3-5-10 Letting, Item 096

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2534	09-00074-00-RS	DUPAGE	22	1
FEDERAL ROAD DIST. NO. 1	ILLINOIS	CONTRACT NO. 63374		

INDEX OF SHEETS

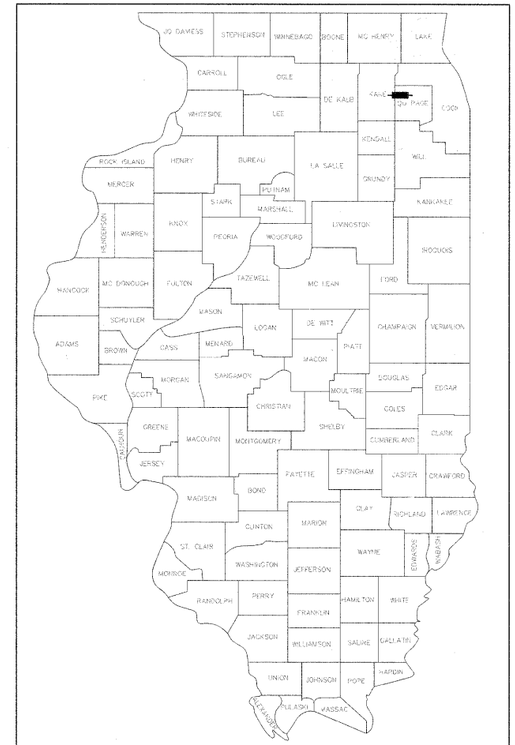
IDOT STATEWIDE STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
424001-05	CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
604001-03	FRAME AND LIDS TYPE I
604051-03	FRAME AND GRATE TYPE II
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701011-02	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701501-05	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-06	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-04	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

F.A.U. ROUTE 2534 (JOLIET STREET)
IL ROUTE 59 TO GENEVA STREET
LAPP RESURFACING
SECTION NO. 09-00074-00-RS
PROJECT NO. M-ARA-9003(405)
JOB NO. C-91-802-09
CITY OF WEST CHICAGO
DUPAGE COUNTY

THE PROJECT IS LOCATED IN THE CITY OF WEST CHICAGO

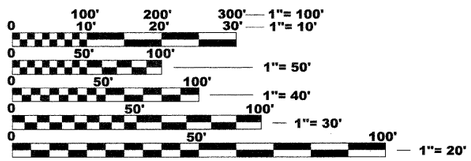


LOCATION OF SECTION INDICATED THUS: -

DESIGN DESIGNATION:
NORTH OF IL ROUTE 38:
LOCAL STREET
SOUTH OF IL ROUTE 38:
LOCAL ROAD

ADT:
NORTH OF IL ROUTE 38:
8,500 VPD (2005)
12,000 VPD (2030)
SOUTH OF IL ROUTE 38:
11,700 VPD (2005)
13,000 VPD (2030)

POSTED SPEED LIMIT(S):
NORTH OF IL ROUTE 38:
30 MPH
SOUTH OF IL ROUTE 38:
40 MPH



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

PLANS PREPARED BY:

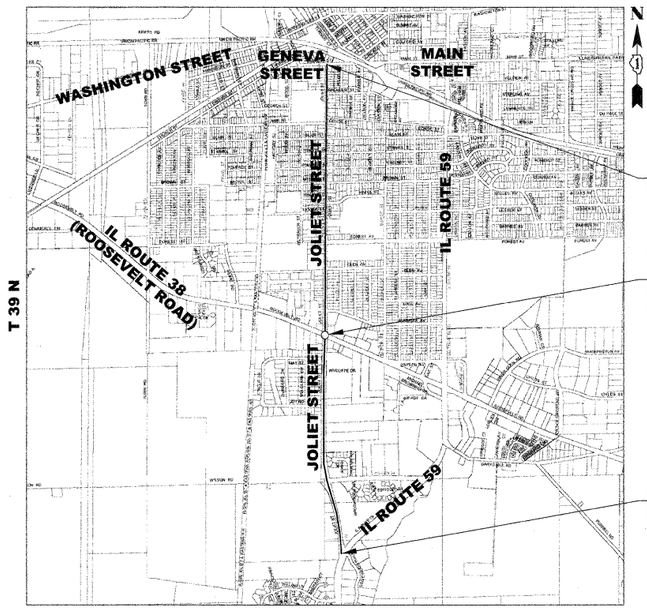
CITY OF WEST CHICAGO
475 MAIN STREET
PHONE: 630-293-2200
FAX: 630-293-3028
P.O. BOX 488
WEST CHICAGO, IL 60185

thomas engineering group, llc
238 south kenilworth avenue
suite 100
oak park, il 60302
phone: 708-533-1700

PROJECT ENGINEER: BRIAN L. PAWULA, P.E., (847) 922-6125
PROJECT MANAGER: KEVIN C. VANDEWOESTYNE, P.E., (847) 815-9500

CONTRACT NO. 63374

FEDERAL AID DESIGN ENGINEER: MARILIN SOLOMON, P.E. (847) 705-4407



LOCATION MAP

N.T.S.

PROJECT LENGTH

GROSS = 10,904 FT = 2.07 MI
NET = 10,807 FT = 2.05 MI

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED 12/16 **20** 09
CITY OF WEST CHICAGO, DIRECTOR OF PUBLIC WORKS

PASSED DECEMBER 16 **20**09
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
BASED ON LIMITED REVIEW DECEMBER 16, 2009
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

BRIAN L. PAWULA 062-061268 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

BY: **DATE:** 12/16/09
THOMAS ENGINEERING GROUP, LLC
LICENSE EXPIRES: 11/30/11

RICHARD A. YONG 062-054605 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

BY: **DATE:** 12/16/09
EJM ENGINEERING, INC.
LICENSE EXPIRES: 11/30/11
THIS SEAL APPLIES TO SHEET(S): 6, 9, 10

GENERAL NOTES:

1. ALL IMPROVEMENTS SHALL BE IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JANUARY 1, 2007 OR LATER.

2. BEFORE STARTING EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ALL UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.

4. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND THE CITY OF WEST CHICAGO IF UNMARKED UTILITIES ARE DISCOVERED AND IF MUNICIPAL UTILITIES ARE DAMAGED DURING CONSTRUCTION. THE CONTRACTOR WILL COOPERATE WITH THE CITY OF WEST CHICAGO IF MUNICIPAL UTILITY IMPROVEMENTS ARE REQUIRED WITHIN THE DURATION OF THE CONTRACT.

5. THE THICKNESSES OF HMA MIXTURES SHOWN IN THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACES OR BASIS ON WHICH THEY ARE TO BE PLACED. PLAN THICKNESSES SHOULD BE CONSIDERED THE MINIMUM THICKNESSES PERMITTED.

6. QUANTITIES FOR MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS AND STRIP REFLECTIVE CRACK CONTROL TREATMENT HAVE BEEN PROVIDED. AFTER THE HMA SURFACE REMOVAL OPERATIONS ARE COMPLETE ALL OPEN CRACKS AND OPEN EXPANSION JOINTS HAVING A WIDTH OF 1/2 IN. OR MORE SHALL BE CLEANED AND FILLED AND STRIP REFLECTIVE CRACK CONTROL WILL BE APPLIED ACCORDING TO ARTICLE 406 AND 443, RESPECTIVELY. THE ACTUAL NEED FOR THESE ITEMS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER. IF CRACK SEALING IS NOT REQUIRED THE QUANTITIES WILL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

7. QUANTITIES FOR PAVEMENT PATCHING (CLASS D PATCHES AND PAVEMENT PATCHING - PARTIAL DEPTH) HAVE BEEN PROVIDED IN THE CONTRACT BASED ON FIELD OBSERVATIONS OF EXISTING CONDITIONS. LOCATIONS SHOWN IN THE PLANS MAY DIFFER AND WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. IF PAVEMENT PATCHING IS NOT REQUIRED THE QUANTITY WILL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

8. AT LOCATIONS WHERE THERE IS CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO SIDEWALK, THE NEW CURB SHALL BE DEPRESSED AND THE NEW SIDEWALK RAMPED TO PROVIDE ACCESSIBLITY. THIS WORK SHALL BE DONE IN ACCORDANCE WITH IDOT STANDARD 424001.

9. THE CONTRACTOR SHALL SET AND CHECK ALL CURB FORMS AND STRING LINES PRIOR TO PLACING CONCRETE TO ENSURE POSITIVE DRAINAGE ALONG THE ROADWAY. IMPROPERLY DRAINING CURB SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

10. QUANTITIES FOR SIDEWALK REMOVAL, PCC SIDEWALK, 5-INCH, SPECIAL, DETECTABLE WARNINGS, COMBINATION CURB AND GUTTER REMOVAL, AND COMBINATION CURB AND GUTTER, OF THE TYPE SPECIFIED, HAVE BEEN PROVIDED. THE ACTUAL NEED FOR REPLACEMENT WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. IF CONSTRUCTION IS NOT REQUIRED, THE QUANTITIES WILL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

11. QUANTITIES FOR DRAINAGE AND UTILITY STRUCTURES TO BE ADJUSTED, SPECIAL, SANITARY MANHOLES TO BE ADJUSTED, SPECIAL, AND FRAMES AND LIDS TO BE ADJUSTED WITH ADJUSTING RINGS, HAVE BEEN PROVIDED. LOCATIONS WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL ADJUSTMENTS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS. IF ADJUSTMENTS ARE NOT REQUIRED, THE QUANTITY WILL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR. THE FRAMES AND LIDS OF PRIVATE UTILITY STRUCTURES SHALL BE ADJUSTED BY THEIR RESPECTIVE OWNERS.

12. ALL SANITARY MANHOLES TO BE ADJUSTED SHALL BE WATERPROOFED IN ACCORDANCE WIITH THE SPECIAL PROVISION FOR SANITARY MANHOLES TO BE ADJUSTED, SPECIAL.

13. PRIOR TO HMA SURFACE REMOVAL, ALL OPEN DRAINAGE UTILITY STRUCTURES SHALL BE PROTECTED WITH FILTER FABRIC TO PREVENT ROADWAY DEBRIS FROM ENTERING UNDERGROUND UTILITIES. THIS WORK SHALL BE INCLUDED IN THE COST OF HOT-MIX ASPHALT SURFACE REMOVAL 2". IF THE ENGINEER FINDS EVIDENCE OF CONSTRUCTION DEBRIS IN THE UTILITY STRUCTURES AFTER THE HMA SURFACE REMOVAL AND / OR AFTER THE BINDER COURSE AND SURFACE COURSE ARE COMPLETED, THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REMOVING DEBRIS.

14. THERE ARE MANHOLES AND VALVES LOCATED WITHIN THE RESURFACING LIMITS. CARE SHOULD BE TAKEN DURING MILLING OPERATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT ALL EXISTING MANHOLE LIDS, TOGETHER WITH THE ENGINEER, PRIOR TO STARTING CONSTRUCTION AND A RECORD KEPT OF THEIR CONDITION. ALL DEBRIS WHICH ACCUMULATES ON THE LIDS AND IN THE MANHOLE PICK HOLES DURING THE TIME THE CONTRACT IS IN FORCE, SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AT HIS OWN EXPENSE.

15. PAVEMENT PATCHING SHALL BE SCHEDULED IMMEDIATELY FOLLOWING HMA SURFACE REMOVAL TO REDUCE DEGRADATION OF THE EXISTING BASE.

16. THE MAXIMUM ALLOWABLE VERTICAL PAVEMENT LANE DROP DIFFERENTIAL WILL BE 1-1/2".

17. THE CONTRACTOR SHALL PLACE FINAL THERMOPLASTIC PAVEMENT MARKINGS A MAXIMUM OF THREE (3) DAYS AFTER PLACEMENT OF THE FINAL HMA SURFACE COURSE. THE CONTRACTOR SHALL PLACE SHORT-TERM PAVEMENT MARKINGS IMMEDIATELY FOLLOWING PLACEMENT OF THE FINAL HMA SURFACE COURSE. PAVEMENT MARKING GROOVING CANNOT OCCUR UNTIL SEVEN (7) DAYS AFTER PLACEMENT OF FINAL HMA SURFACE COURSE (SEE SPECIAL PROVISIONS).

18. THE CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION, AND SHALL PREVENT STORMWATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.

19. 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 (BD-32).

20. ALL PAVEMENTS, CURB AND GUTTER, SIDEWALKS, AND DRIVEWAYS TO BE REMOVED SHALL BE SAW CUT PRIOR TO REMOVAL TO PREVENT DAMAGE TO THE ITEMS TO REMAIN. THE COST OF SAW CUTTING SHALL BE INCLUDED IN THE COST OF THE ITEMS BEING CONSTRUCTED.

21. PARKWAY RESTORATION SHALL INCLUDE REPLACEMENT OF DAMAGED AND DESTROYED LANDSCAPE, IN KIND, OF THE EXISTING TURF ADJACENT TO THE WORKING LIMITS AND WHERE THE CONTRACTOR'S EQUIPMENT HAS DESTROYED OR DAMAGED THE TURF. THE CONTRACTOR SHALL PREPARE THE GROUND ACCORDING TO SECTION 211 OF THE STANDARD SPECIFICATIONS. SALT TOLERANT SEED AND FERTILIZER SHALL BE PLACED ACCORDING TO SECTION 250 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEMS BEING CONSTRUCTED SUCH AS COMBINATION CONCRETE CURB AND GUTTER, OF THE TYPE SPECIFIED, AND PCC SIDEWALK, 5-INCH (SEE SPECIAL PROVISIONS).

22. ALL STREETS AND COMMERCIAL PARKING LOT ENTRANCES SHALL REMAIN OPEN DURING CONSTRUCTION. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH IDOT STANDARDS 701301, 701311, 701501, 701701, 701801, AND 701901 (SEE SPECIAL PROVISIONS).

23. WORK SHALL BE CAREFULLY PLANNED BY THE CONTRACTOR TO REDUCE DISRUPTION TO RESIDENTS, BUSINESSES, AND THE PUBLIC SEEKING TO ACCESS THE BUSINESSES. AT LEAST ONE LANE OF TRAFFIC MUST REMAIN OPEN AT ALL TIMES.

24. DURING AND AFTER CONSTRUCTION OPERATIONS, LOOSE MATERIAL ON ROADWAYS AS A RESULT OF CONTRACTOR OPERATIONS, INCLUDING BUT NOT LIMITED TO HMA SURFACE REMOVAL, BINDER COURSE AND SURFACE COURSE INSTALLATION, SHALL BE REMOVED AND DEPOSITED OFF SITE BY THE CLOSE OF EACH BUSINESS DAY. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT. THIS APPLIES TO EXCESSIVE PRIMER LEFT ON ROADWAYS.

25. ALL FRAMES TO BE FURNISHED AS PART OF THIS CONTRACT FOR CONSTRUCTION, ADJUSTMENT, OR RECONSTRUCTION OF ANY MANHOLE, CATCH BASIN, INLET, VALVE VAULT, OR METER VAULT SHALL HAVE CAST INTO THE LID "CITY OF WEST CHICAGO" AND BEAR THE THE WORD "STORM", "SANITARY", OR "WATER" DEPENDING ON THE TYPE SPECIFIED.

26. THE CONTRACTOR SHALL PLACE "NO PASSING ZONES NOT STRIPED NEXT _ MILES" SIGNS AT THE BEGINNING OF UNSTRIPED AREAS, JUST BEYOND EACH MAJOR INTERSECTION WITHIN THE UPSTRIPED AREA, AND AT OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. THE SIGNS SHALL BE PLACED JUST PRIOR TO REMOVAL OR COVERING OF THE STRIPING AND SHALL REMAIN IN PLACE UNTIL FULL NO PASSING ZONE STRIPING HAS BEEN RESTORED. THESE SIGNS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR MOBILIZATION.

27. THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT 847-705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORTARY TRAFFIC CONTROL DEVICES.

[ ] DENOTES ITEM(S) OR WORK NOT PAID FOR SEPARATELY

SUMMARY OF QUANTITIES

SPEC. ITEM	PAY CODE	DESCRIPTION	UNIT	TOTAL QUANTITY I000	IL Rte 59 to IL Rte 38 QUANTITY	IL Rte 38 to Geneva Street QUANTITY
	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	3901	1616	2285
	40600300	AGGREGATE (PRIME COAT)	TON	78	32	46
	40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	19.5	8.1	11.4
	40600895	CONSTRUCTING TEST STRIP	EACH	2	1	1
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	591	241	350
	40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	3276	1357	1919
	42400430	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL	SQ FT	260	0	260
	42400800	DETECTABLE WARNINGS	SQ FT	56	0	56
	44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	39009	16160	22849
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	750	150	600
	44000600	SIDEWALK REMOVAL	SQ FT	260	0	260
	44201737	CLASS D PATCHES, TYPE I, 8 INCH	SQ YD	50	50	0
	44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	50	50	0
	44201745	CLASS D PATCHES, TYPE III, 8 INCH	SQ YD	75	75	0
	44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	75	75	0
	44201785	CLASS D PATCHES, TYPE I, 12 INCH	SQ YD	50	0	50
	44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	50	0	50
	44201794	CLASS D PATCHES, TYPE III, 12 INCH	SQ YD	50	0	50
	44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	100	0	100
	44212900	PAVEMENT PATCHING (PARTIAL DEPTH)	SQ YD	100	50	50
	44300300	AREA REFLECTIVE CRACK CONTROL TREATMENT, SYSTEM A	SQ YD	39009	16160	22849
	44301200	STRIP REFLECTIVE CRACK CONTROL TREATMENT SYSTEM B, 24 INCH	FOOT	1000	500	500
	48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	140	140	0
	60251500	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 11 FRAME AND GRATE	EACH	7	2	5
	60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	50	5	45
	60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	10	0	10
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	200	0	200
	60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	350	50	300
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	200	100	100
	67100100	MOBILIZATION	L SUM	1	0.5	0.5
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.5	0.5
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.5	0.5
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0	1
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	6205	3470	2735
	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	28202	16840	11362
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	432	73	359
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	28202	16840	11362
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2258	340	1918
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	717	0	717
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	408	121	287
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	177	177	0
*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	538	395	143
	X0321556	SANITARY MANHOLES TO BE ADJUSTED, (SPECIAL)	EACH	5	1	4
	40600826	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	1639	679	960

* = SPECIALTY ITEM

FILE NAME = 02_Gen Notes, Sum of Qtys_Joliet LAPP
PLOT DATE = 12/15/09

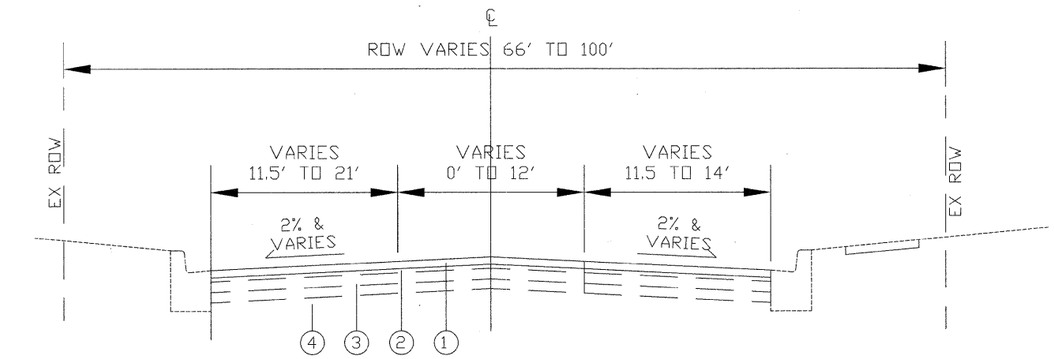
thomas engineering group
service of the highest grade
thomas engineering group, llc
238 south kenilworth avenue
suite 100
oak park, il 60302
phone: 708-533-1700

DESIGNED - DMM	REVISED -	
DRAWN - DMM	REVISED -	
CHECKED - KCV	REVISED -	
DATE - 12/16/09	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

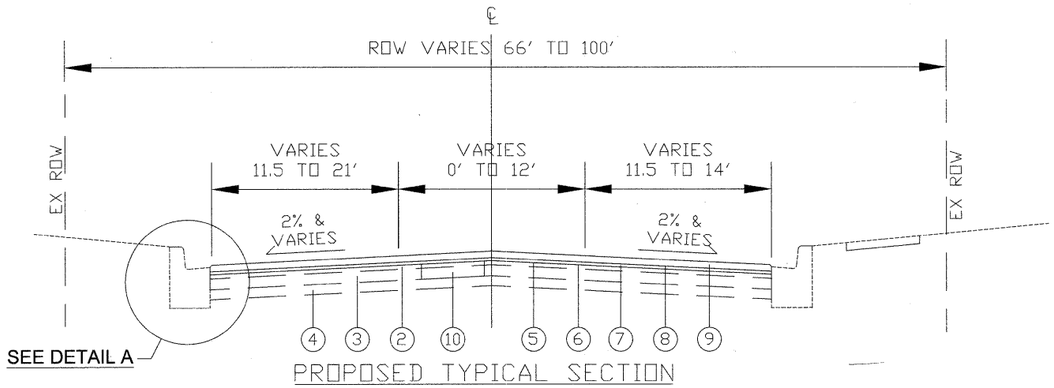
JOLIET STREET - IL RTE 59 TO GENEVA STREET
GENERAL NOTES AND SUMMARY OF QUANTITIES
SCALE: NTS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2534	09-00074-00-RS	DUPAGE	22	2
		CONTRACT NO. 63374		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ARA-9003(405)		



EXISTING TYPICAL SECTION

STA. 11+33 TO STA. 15+26 LT — JOLIET STREET — STA. 11+33 TO STA. 14+68 RT
STA. 56+85 TO STA. 59+36 LT — JOLIET STREET — STA. 56+17 TO STA. 59+36 RT



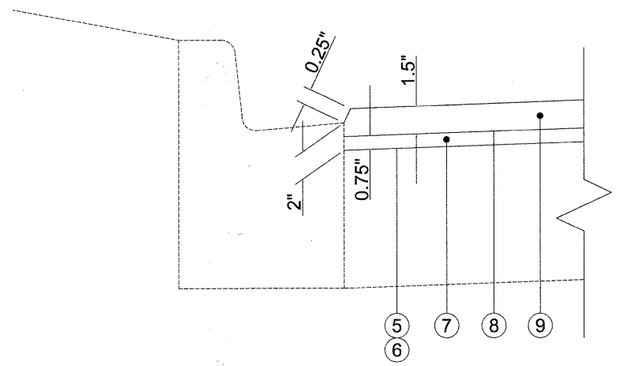
PROPOSED TYPICAL SECTION

STA. 11+33 TO STA. 15+26 LT — JOLIET STREET — STA. 11+33 TO STA. 14+68 RT
STA. 56+85 TO STA. 59+36 LT — JOLIET STREET — STA. 56+17 TO STA. 59+36 RT

LEGEND:

1. PR HOT-MIX ASPHALT SURFACE REMOVAL, 2"
2. EX HOT-MIX ASPHALT SURFACE COURSE AND (LEVELING) BINDER COURSE, 3" AND VARIES (2" TO BE MILLED)
3. EX HOT-MIX ASPHALT BASE COURSE, VARIES 5" TO 11.5"
4. EX SUBBASE GRANULAR MATERIAL, TYPE B, 4" & VARIES
5. PR AGGREGATE (PRIME COAT)
6. PR BITUMINOUS MATERIALS (PRIME COAT)
7. PR POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 0.75"
8. PR AREA REFLECTIVE CRACK CONTROL TREATMENT, SYSTEM A
9. PR HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1.5"
10. PR INTERMITTENT PAVEMENT PATCH

DETAIL A



CONTRACTOR SHALL MILL BEFORE PATCHING

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
PAVEMENT RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm)	4% @ 70 Gyr.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	4% @ 50 Gyr.
PATCHING	
CLASS D PATCH (HMA BINDER IL-19 mm)	4% @ 70 Gyr.
PAVEMENT PATCHING (PARTIAL DEPTH) (HMA BINDER IL-19 mm)	4% @ 70 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

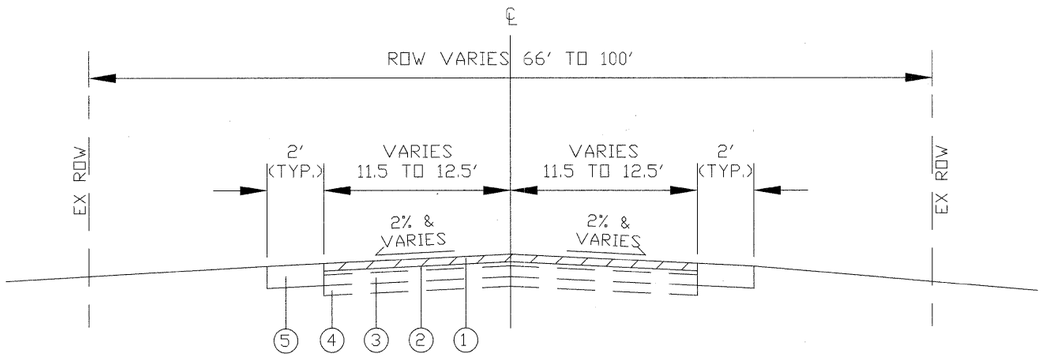
THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

FILE NAME = 03-04_Typical Sections_Joliet S LAPP	thomas engineering group, llc 238 south kenilworth avenue suite 100 oak park, il 60302 phone: 708-533-1700	DESIGNED - DMM	REVISED -
PLOT DATE = 12/15/09		DRAWN - DMM	REVISED -
		CHECKED - KCV	REVISED -
		DATE - 12/16/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

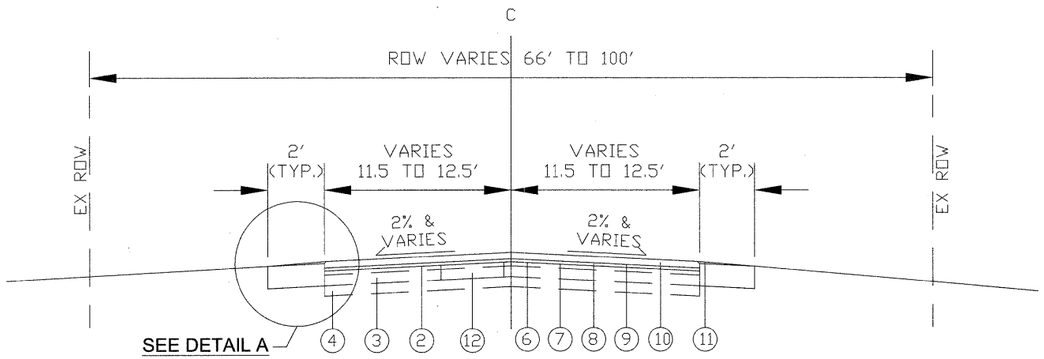
JOLIET STREET - IL RTE 59 TO GENEVA STREET
TYPICAL SECTIONS
SCALE: NTS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2534	09-00074-00-RS	DUPAGE	22	3
		CONTRACT NO. 63374		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ARA-9003(405)		



EXISTING TYPICAL SECTION

STA. 15+26 TO STA. 56+85 LT JOLIET STREET STA. 14+68 TO STA. 56+17 RT



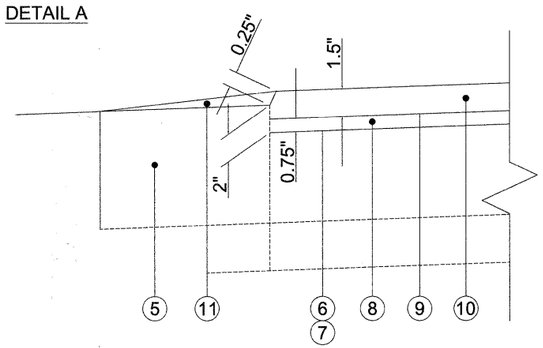
PROPOSED TYPICAL SECTION

STA. 15+26 TO STA. 56+85 LT JOLIET STREET STA. 14+68 TO STA. 56+17 RT

LEGEND:

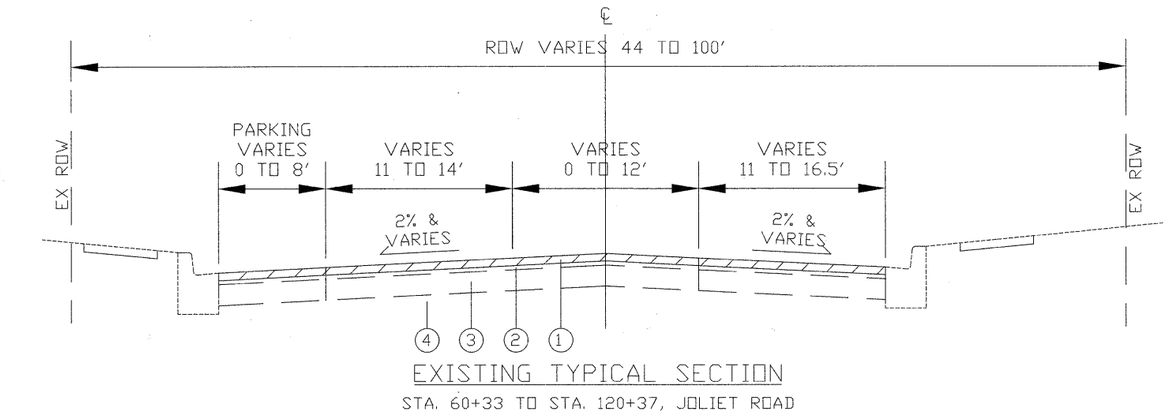
1. PR HOT-MIX ASPHALT SURFACE REMOVAL, 2"
2. EX HOT-MIX ASPHALT SURFACE COURSE AND (LEVELING) BINDER COURSE, 3" AND VARIES (2" TO BE MILLED)
3. EX HOT-MIX ASPHALT BASE COURSE, VARIES 5" TO 11.5"
4. EX SUBBASE GRANULAR MATERIAL, TYPE B, 4" & VARIES
5. EX AGGREGATE SHOULDERS
6. PR AGGREGATE (PRIME COAT)
7. PR BITUMINOUS MATERIALS (PRIME COAT)
8. PR POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 0.75"
9. PR AREA REFLECTIVE CRACK CONTROL TREATMENT, SYSTEM A
10. PR HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1.5"
11. PR AGGREGATE WEDGE SHOULDERS, TYPE B (SEE DETAIL A THIS SHEET)
12. PR INTERMITTENT PAVEMENT PATCH

DETAIL A



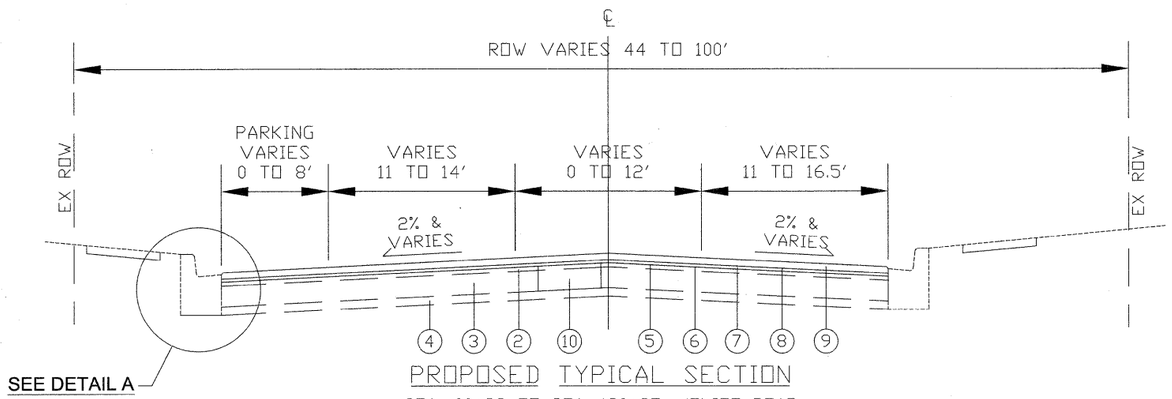
FILE NAME = 03-04_Typical Sections_Joliet S LAPP PLOT DATE = 12/15/09	thomas engineering group, llc 238 south kenilworth avenue suite 100 oak park, il 60302 phone: 708-533-1700	DESIGNED - DMM DRAWN - DMM CHECKED - KCV DATE - 12/16/09	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOLIET STREET - IL RTE 59 TO GENEVA STREET TYPICAL SECTIONS SCALE: NTS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2534	09-00074-00-RS	DUPAGE	22	4
		CONTRACT NO. 63374		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ARA-9003(405)		



EXISTING TYPICAL SECTION

STA. 60+33 TO STA. 120+37, JOLIET ROAD



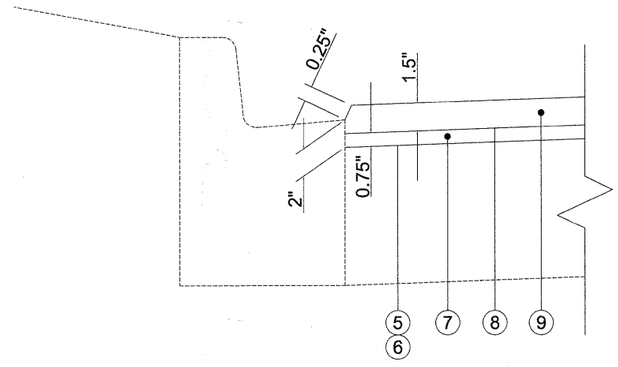
PROPOSED TYPICAL SECTION

STA. 60+33 TO STA. 120+37, JOLIET ROAD

LEGEND:

1. PR HOT-MIX ASPHALT SURFACE REMOVAL, 2"
2. EX HOT-MIX ASPHALT SURFACE COURSE AND (LEVELING) BINDER COURSE, 3" AND VARIES (2" TO BE MILLED)
3. EX HOT-MIX ASPHALT BASE COURSE, VARIES 8.5" TO 12"
4. EX SUBBASE GRANULAR MATERIAL, TYPE B, VARIES 4"
5. PR AGGREGATE (PRIME COAT)
6. PR BITUMINOUS MATERIALS (PRIME COAT)
7. PR POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 0.75"
8. PR AREA REFLECTIVE CRACK CONTROL TREATMENT, SYSTEM A
9. PR HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1.5"
10. PR INTERMITTENT PAVEMENT PATCH

DETAIL A



FILE NAME = 05_Typical Sections_Joliet N LAPP	thomas engineering group, llc 238 south kenilworth avenue suite 100 oak park, il 60302 phone: 708-533-1700	DESIGNED - DMM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOLIET STREET - IL RTE 59 TO GENEVA STREET
PLOT DATE = 12/15/09		DRAWN - DMM	REVISED -		TYPICAL SECTIONS
		CHECKED - KCV	REVISED -		SCALE: NTS
		DATE - 12/16/09	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2534	09-00074-00-RS	DUPAGE	22	5
		CONTRACT NO. 63374		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ARA-9003(405)		

PR DETECTOR LOOP REPLACEMENT (TYP)
SEE DETECTOR LOOP DETAIL ON THIS SHEET

⑤ STA. 11+62

④

+74

③

+84

EX ROW (TYP)

①

END EX CURB AND GUTTER
BEGIN EX AGGREGATE SHOULDER
②BEGIN

JOLIET STREET

13'

10'

35'

11+00

15+00

⑥

PR COMBINATION CURB AND GUTTER REMOVAL (TYP)
PR COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (TYP)

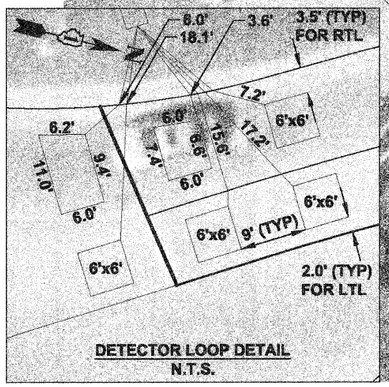
PROJECT BEGINS STA. 11+33
IL RTE 59 SOUTHBOUND EDGE OF PAVEMENT

PR AGGREGATE WEDGE SHOULDER, TYPE B OVER
EX AGGREGATE SHOULDER (TYP)

MATCH LINE STA. 17+00

N

IL RTE 59



DETECTOR LOOP DETAIL
N.T.S.

PR PAVEMENT MARKING LEGEND (TYP. SOUTH OF IL RTE 38)
THERMOPLASTIC PAVEMENT MARKING:

①	CENTERLINE -	2 @ 4", YELLOW, 4" C-C
②	EDGE LINE -	1 @ 4", WHITE
③	DOTTED LINE -	1 @ 6", WHITE, 2' DASH, 6' SKIP
④	TURN LANE LINE -	1 @ 6", WHITE
⑤	STOP LINE -	1 @ 24", WHITE
⑥	LETTERS AND SYMBOLS -	VARIOUS, WHITE

PR RAISED REFLECTIVE PAVEMENT MARKER (TYP. SOUTH OF IL RTE 38)
ONE-WAY CRYSTAL MARKER
TWO-WAY AMBER MARKER

PR HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

PR HOT-MIX ASPHALT SURFACE REMOVAL, 2"
PR POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, ¾"
PR HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½"

PAVEMENT PATCH (SEE SHEET 2, NOTE 7)

MATCH LINE STA. 17+00

E-E VARIES 23' TO 25'

①

②

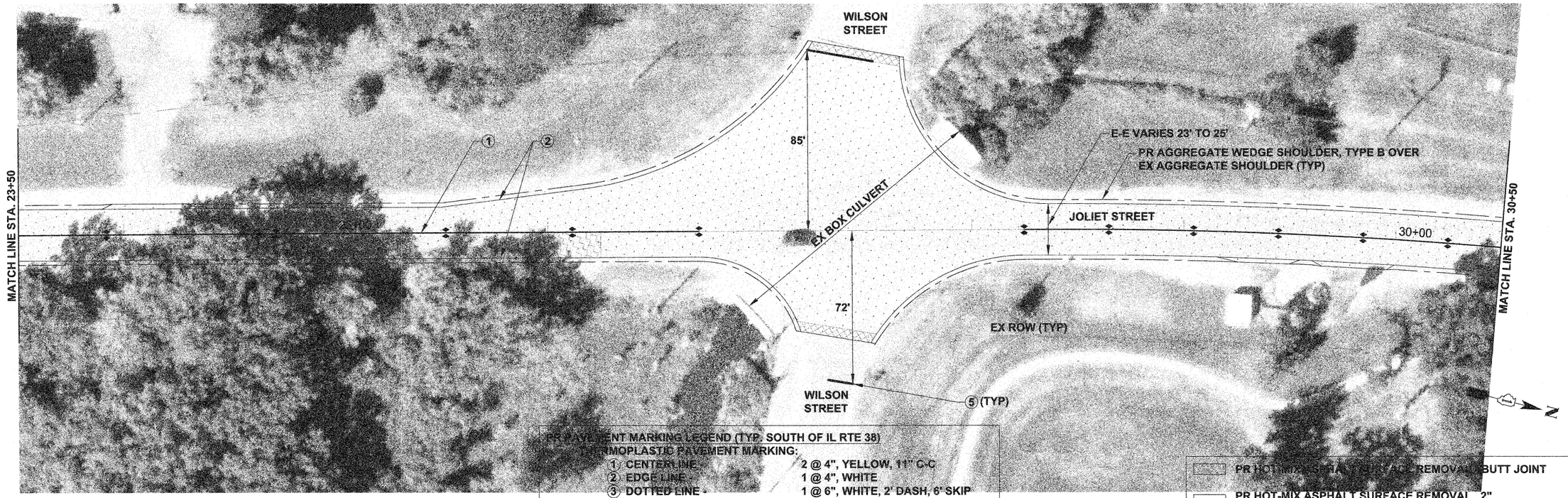
20+00

JOLIET STREET

MATCH LINE STA. 23+50

N

FILE NAME = 09-09_Plan Sheets_Joliet S LAPP	thomas engineering group, llc 238 south kenilworth avenue suite 100 oak park, il 60302 phone: 708-533-1700	DESIGNED - BLP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOLIET STREET - IL RTE 59 TO GENEVA STREET PLAN SHEET	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT DATE = 12/15/09		DRAWN - BLP	REVISED -			2534	09-00074-00-RS	DUPAGE	22	6
		CHECKED - DMM	REVISED -					CONTRACT NO. 63374		
		DATE - 12/16/09	REVISED -		SCALE: 1" = 50' STA. 10+94 TO STA. 23+50	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ARA-9003(408)		



PR PAVEMENT MARKING LEGEND (TYP. SOUTH OF IL RTE 38)

THERMOPLASTIC PAVEMENT MARKING:

1	CENTERLINE -	2 @ 4", YELLOW, 11" C-C
2	EDGE LINE -	1 @ 4", WHITE
3	DOTTED LINE -	1 @ 6", WHITE, 2' DASH, 6' SKIP
4	TURN LANE LINE -	1 @ 6", WHITE
5	STOP LINE -	1 @ 24", WHITE
6	LETTERS AND SYMBOLS -	VARIOUS, WHITE

PR RAISED REFLECTIVE PAVEMENT MARKER (TYP. SOUTH OF IL RTE 38)

- ONE-WAY CRYSTAL MARKER
- TWO-WAY AMBER MARKER

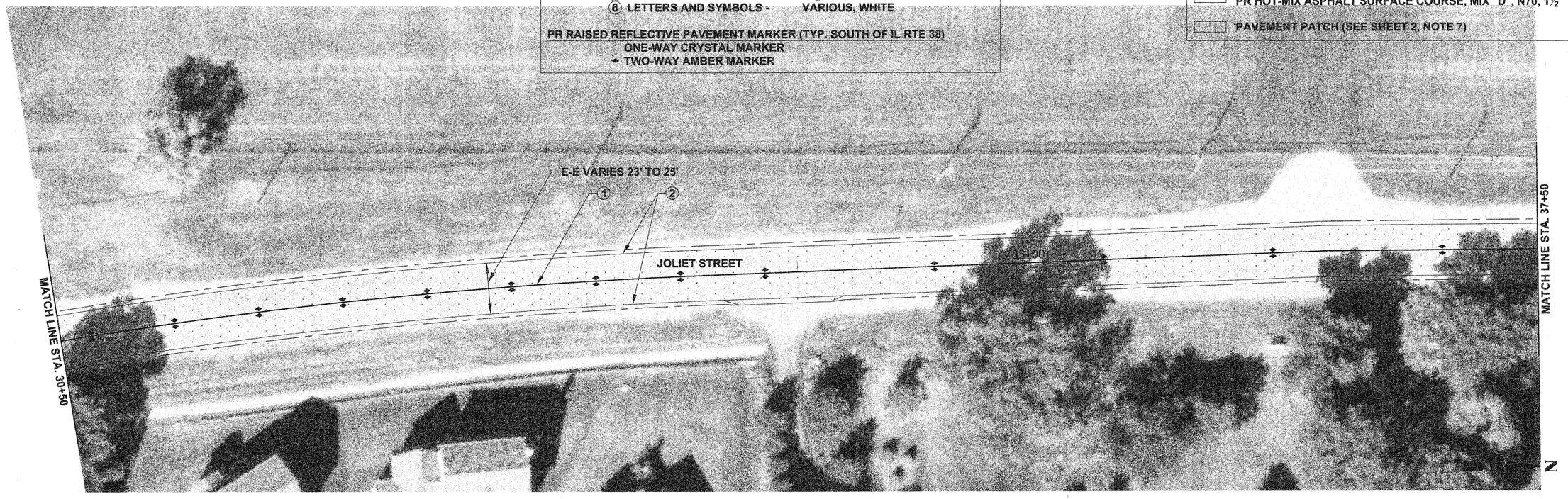
PR HOT-MIX ASPHALT SURFACE REMOVAL, BUTT JOINT

PR HOT-MIX ASPHALT SURFACE REMOVAL, 2"

PR POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, ¾"

PR HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½"

PAVEMENT PATCH (SEE SHEET 2, NOTE 7)



FILE NAME = 06-09_Plan Sheets_Joliet S LAPP	thomas engineering group, llc	DESIGNED - BLP	REVISED -
PLOT DATE = 12/15/09	238 south kenilworth avenue suite 100 oak park, il 60302 phone: 708-533-1700	DRAWN - BLP	REVISED -
		CHECKED - DMM	REVISED -
		DATE - 12/16/09	REVISED -

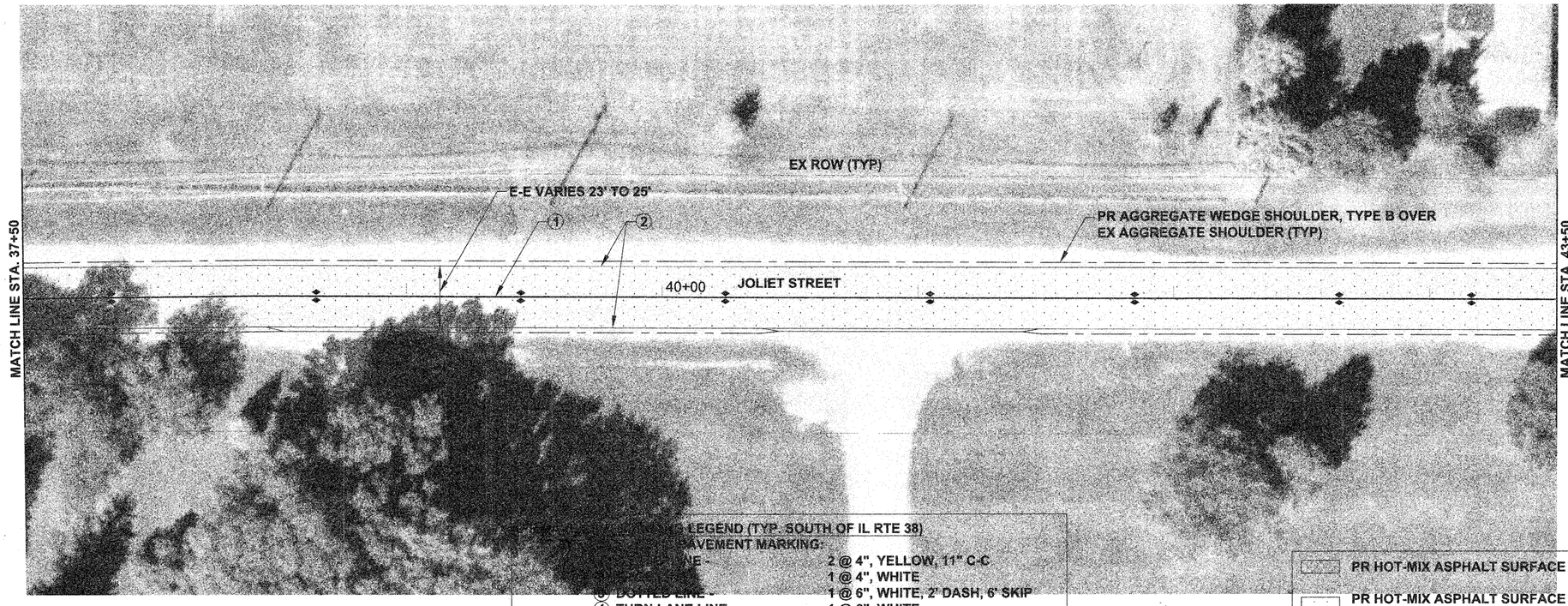
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOLIET STREET - IL RTE 59 TO GENEVA STREET

PLAN SHEET

SCALE: 1" = 50' | STA. 23+50 TO STA. 37+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2534	09-00074-00-RS	DUPAGE	22	7
		CONTRACT NO. 63374		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ARA-9003(405)		



LEGEND (TYP. SOUTH OF IL RTE 38)

PAVEMENT MARKING:

NE -	2 @ 4", YELLOW, 11" C-C
	1 @ 4", WHITE
③ DOTTED LINE -	1 @ 6", WHITE, 2' DASH, 6' SKIP
④ TURN LANE LINE -	1 @ 6", WHITE
⑤ STOP LINE -	1 @ 24", WHITE
⑥ LETTERS AND SYMBOLS -	VARIOUS, WHITE

PR RAISED REFLECTIVE PAVEMENT MARKER (TYP. SOUTH OF IL RTE 38)

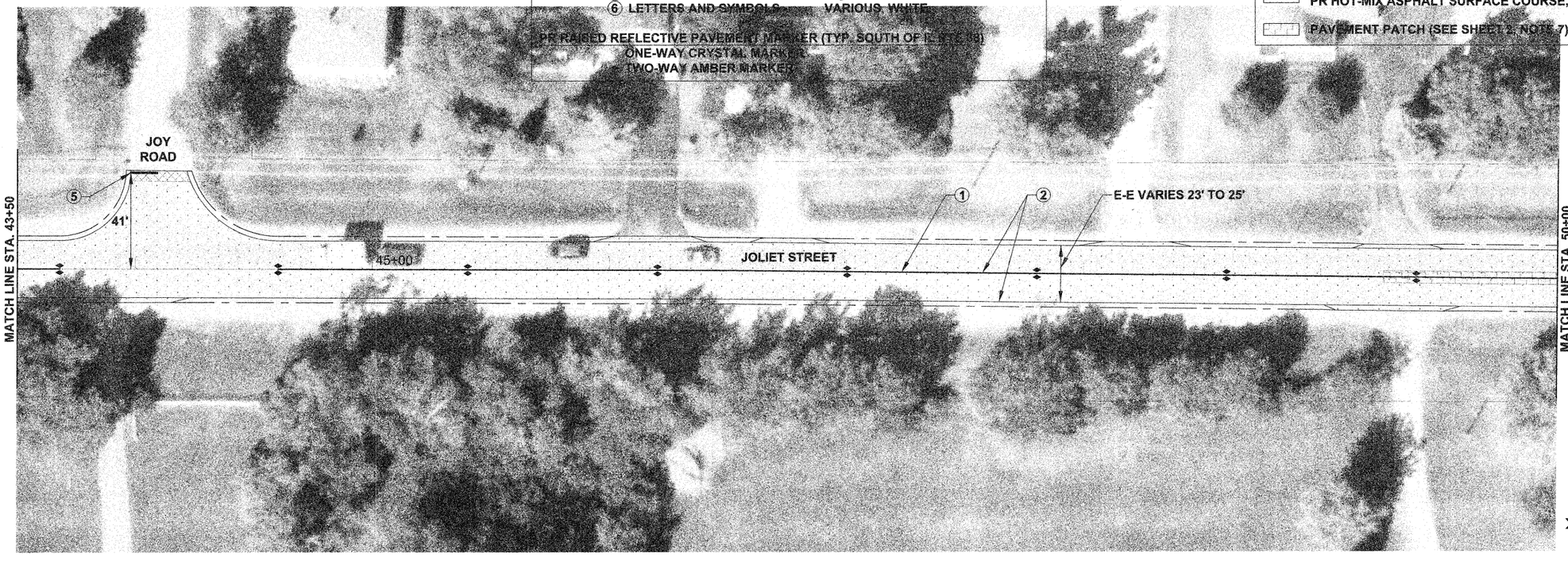
ONE-WAY CRYSTAL MARKER

TWO-WAY AMBER MARKER

PR HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

PR HOT-MIX ASPHALT SURFACE REMOVAL, 2"
PR POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, ¾"
PR HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½"

PAVEMENT PATCH (SEE SHEET 2, NOTE 7)



FILE NAME = 06-09_Plan Sheets_Joliet S LAPP	thomas engineering group, llc	DESIGNED - BLP	REVISED -
PLOT DATE = 12/15/09	238 south kenilworth avenue suite 100 oak park, il 60302 phone: 708-533-1700	DRAWN - BLP	REVISED -
		CHECKED - DMM	REVISED -
		DATE - 12/16/09	REVISED -

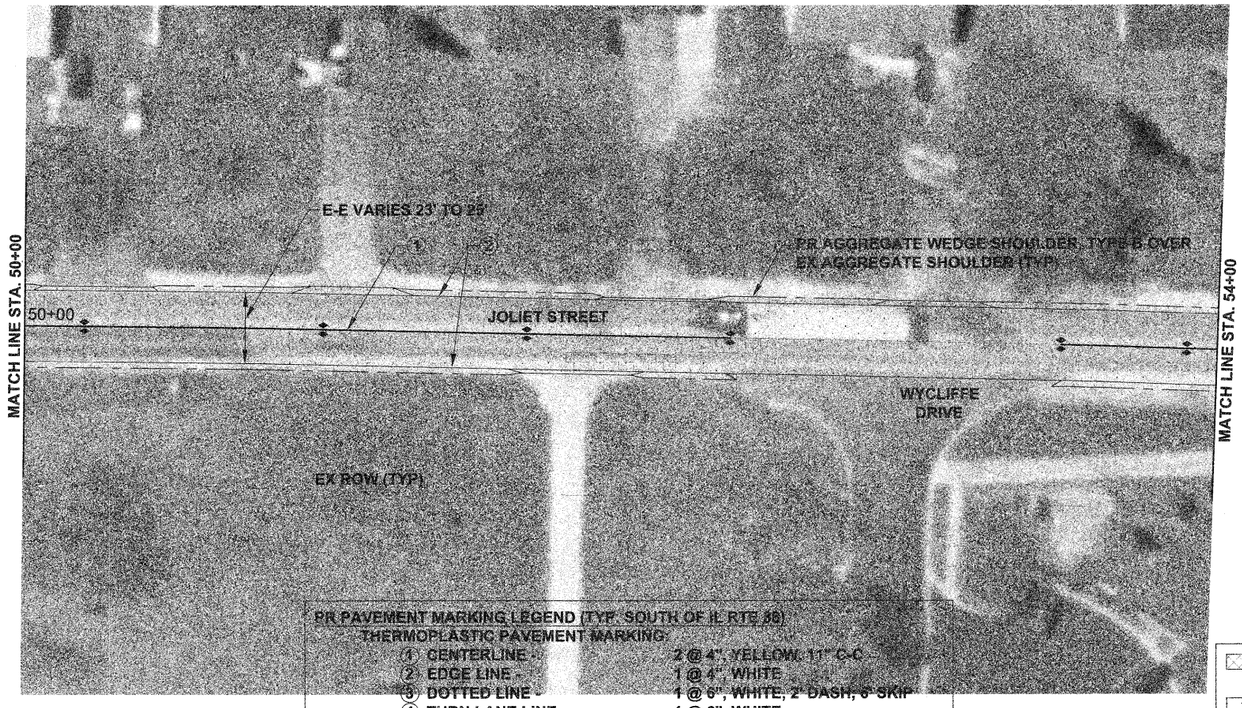
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOLIET STREET - IL RTE 59 TO GENEVA STREET

PLAN SHEET

SCALE: 1" = 50' | STA. 37+50 TO STA. 50+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2534	09-00074-00-RS	DUPAGE	22	8
		CONTRACT NO. 63374		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ARA-9003(405)		



PR PAVEMENT MARKING LEGEND (TYP. SOUTH OF IL RTE 38)

THERMOPLASTIC PAVEMENT MARKING:

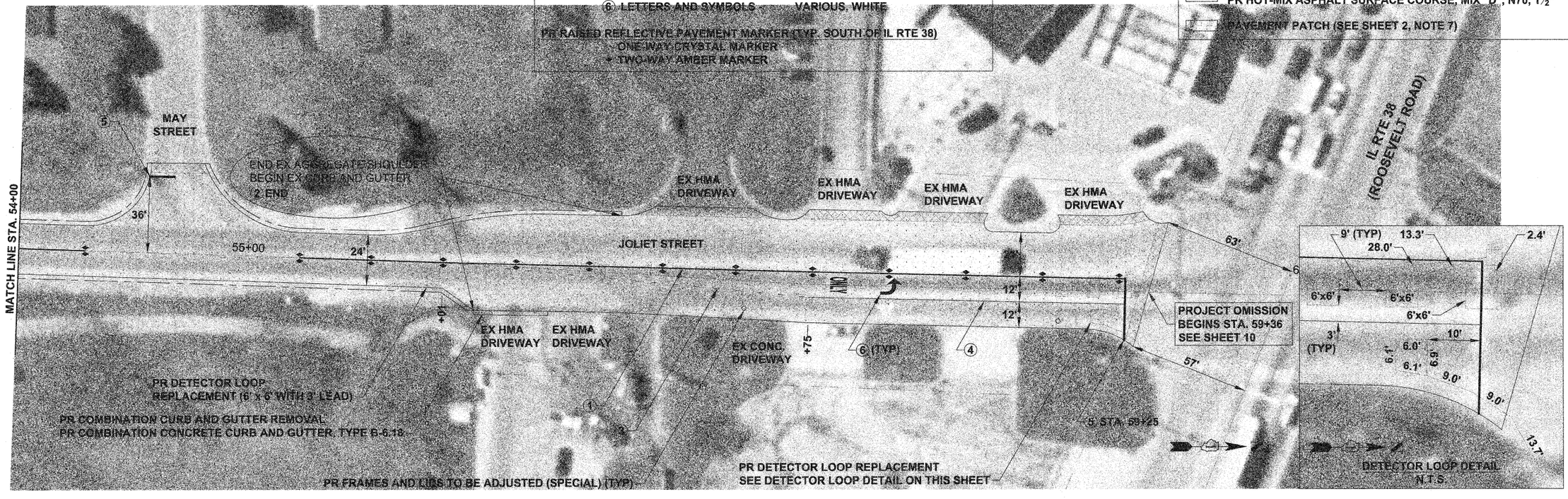
1	CENTERLINE -	2 @ 4", YELLOW, 11" C-C
2	EDGE LINE -	1 @ 4", WHITE
3	DOTTED LINE -	1 @ 6", WHITE, 2' DASH, 6' SKIP
4	TURN LANE LINE -	1 @ 6", WHITE
5	STOP LINE -	1 @ 24", WHITE
6	LETTERS AND SYMBOLS -	VARIOUS, WHITE

PR RAISED REFLECTIVE PAVEMENT MARKER (TYP. SOUTH OF IL RTE 38)
- ONE-WAY CRYSTAL MARKER
- TWO-WAY AMBER MARKER

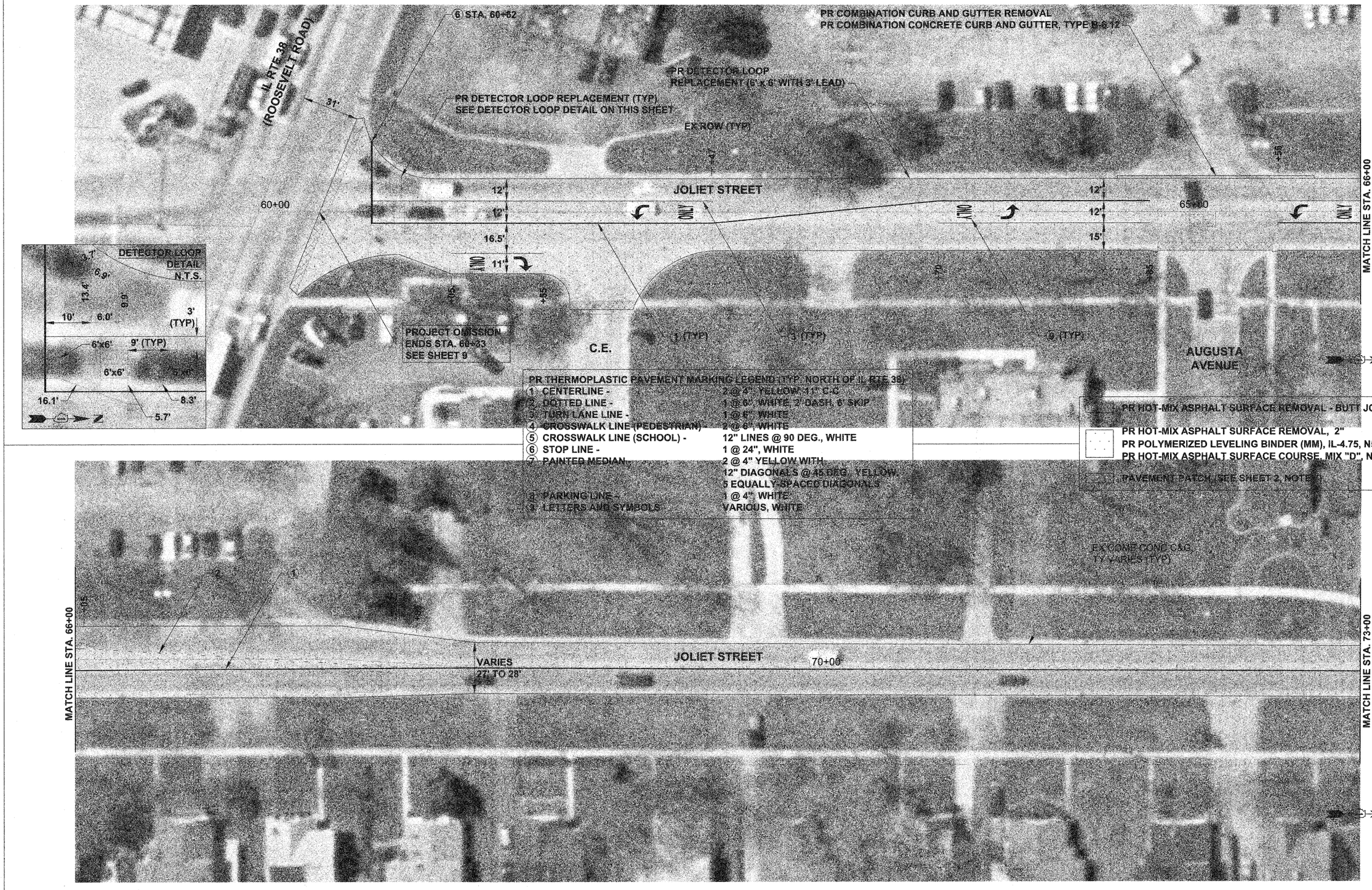
PR HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

PR HOT-MIX ASPHALT SURFACE REMOVAL, 2"
PR POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, ¾"
PR HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½"

PAVEMENT PATCH (SEE SHEET 2, NOTE 7)



FILE NAME = 06-09_Plan Sheets_Joliet S LAPP	thomas engineering group, llc 238 south kenilworth avenue suite 100 oak park, il 60302 phone: 708-533-1700	DESIGNED - BLP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOLIET STREET - IL RTE 59 TO GENEVA STREET PLAN SHEET	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT DATE = 12/15/09		DRAWN - BLP	REVISED -			2534	09-00074-00-RS	DUPAGE	22	9
		CHECKED - DMM	REVISED -					CONTRACT NO. 63374		
		DATE - 12/16/09	REVISED -		SCALE: 1" = 50' STA. 50+00 TO STA. 60+00	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ARA-9003(405)		



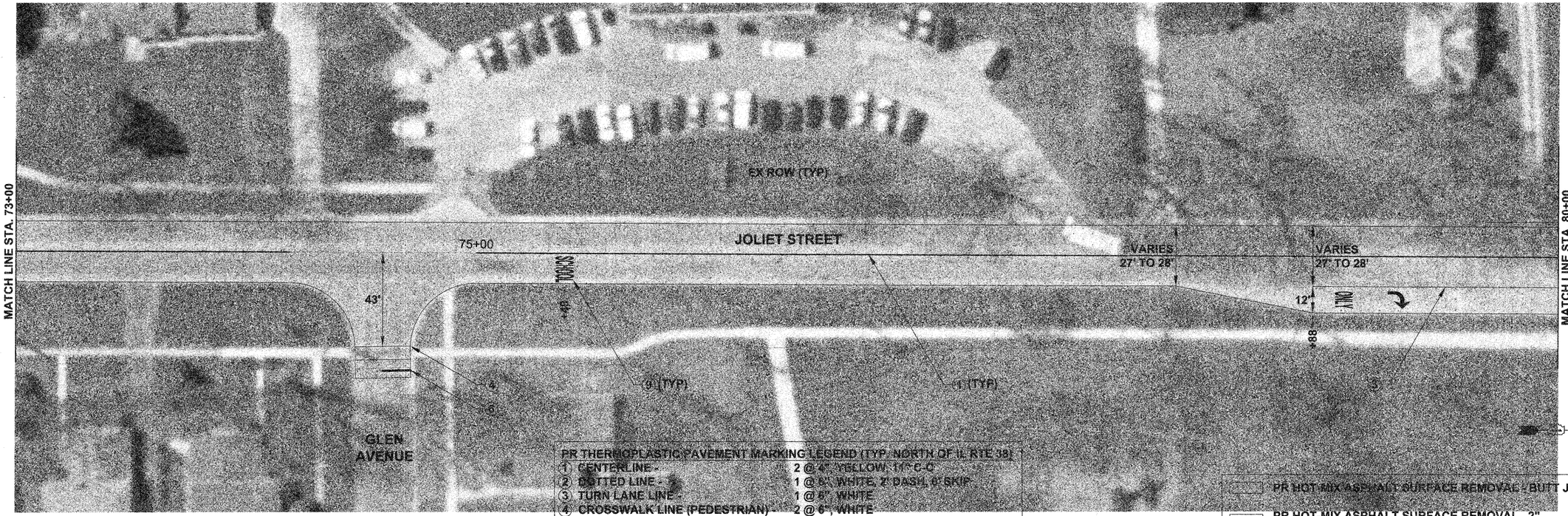
FILE NAME = 10-14_Plan Sheets_Joliet N LAPP	thomas engineering group, llc 238 south kenilworth avenue suite 100 oak park, il 60302 phone: 708-533-1700	DESIGNED - BLP	REVISED -
PLOT DATE = 12/15/09		DRAWN - BLP	REVISED -
		CHECKED - DMM	REVISED -
		DATE - 12/16/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOLIET STREET - IL RTE 59 TO GENEVA STREET
PLAN SHEET

SCALE: 1" = 50' | STA. 60+00 TO STA. 73+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2534	09-00074-00-RS	DUPAGE	22	10
		CONTRACT NO. 63374		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ARA-9003(405)		

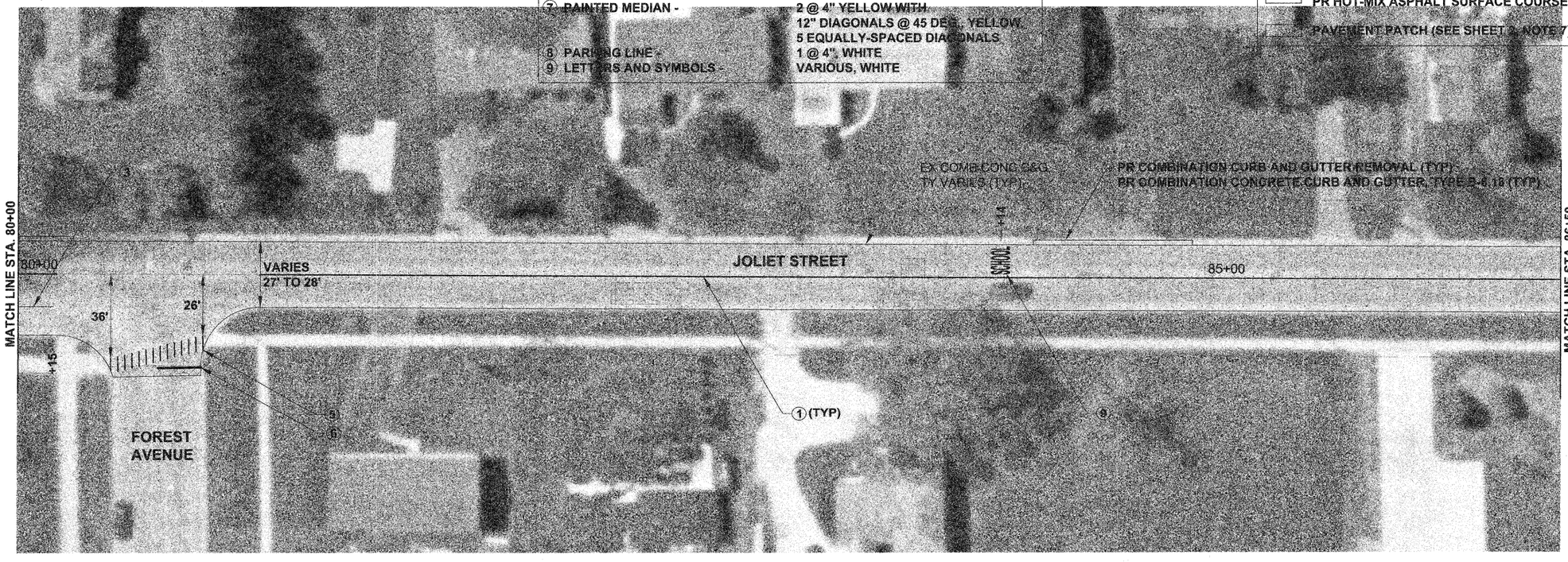


PR THERMOPLASTIC PAVEMENT MARKING LEGEND (TYP. NORTH OF IL RTE 38)

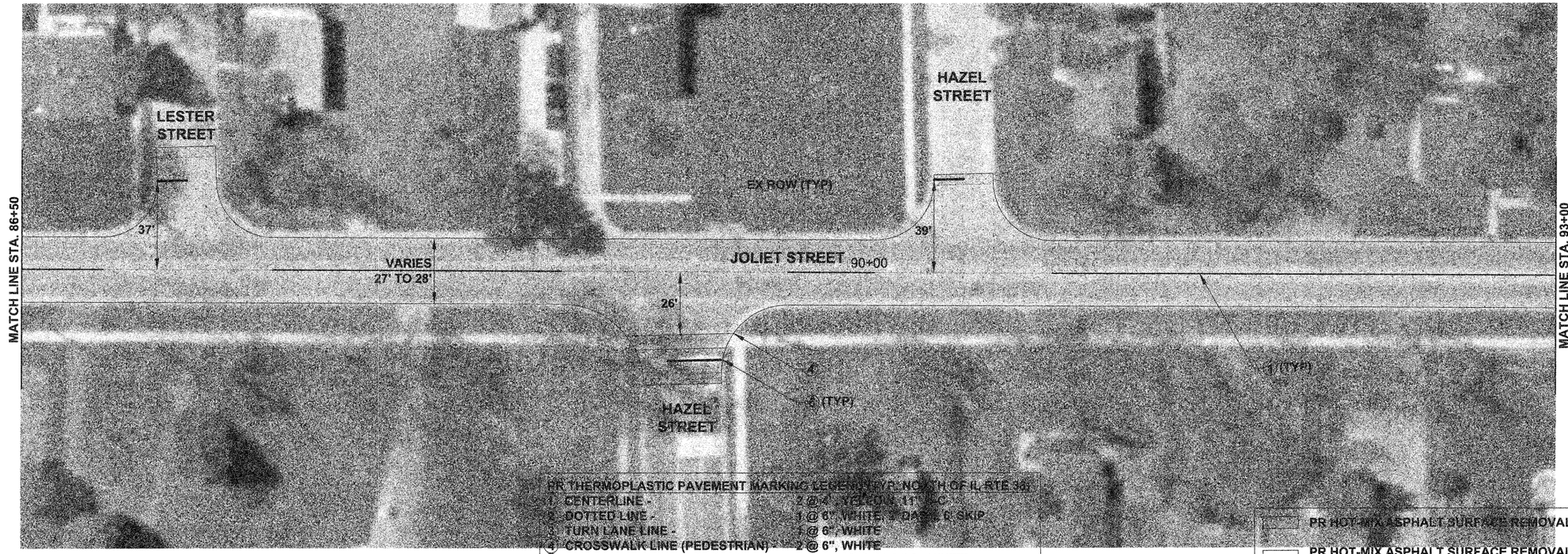
1	CENTERLINE -	2 @ 4", YELLOW, 11" C-C
2	DOTTED LINE -	1 @ 6", WHITE, 2' DASH, 6' SKIP
3	TURN LANE LINE -	1 @ 6", WHITE
4	CROSSWALK LINE (PEDESTRIAN) -	2 @ 6", WHITE
5	CROSSWALK LINE (SCHOOL) -	12" LINES @ 90 DEG., WHITE
6	STOP LINE -	1 @ 24", WHITE
7	PAINTED MEDIAN -	2 @ 4" YELLOW WITH 12" DIAGONALS @ 45 DEG., YELLOW, 5 EQUALLY-SPACED DIAGONALS
8	PARKING LINE -	1 @ 4", WHITE
9	LETTERS AND SYMBOLS -	VARIOUS, WHITE

PR HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

PR HOT-MIX ASPHALT SURFACE REMOVAL, 2"
PR POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, ¾"
PR HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½"
PAVEMENT PATCH (SEE SHEET 2, NOTE 7)



FILE NAME = 10-14_Plan Sheets_Joliet N LAPP	thomas engineering group, llc 238 south kenilworth avenue suite 100 oak park, il 60302 phone: 708-533-1700	DESIGNED - BLP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOLIET STREET - IL RTE 59 TO GENEVA STREET	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT DATE = 12/15/09		DRAWN - BLP	REVISED -		PLAN SHEET	2534	09-00074-00-RS	DUPAGE	22	11
		CHECKED - DMM	REVISED -						CONTRACT NO. 63374	
		DATE - 12/16/09	REVISED -		SCALE: 1" = 50' STA. 73+00 TO STA. 86+50	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ARA-9003(405)		



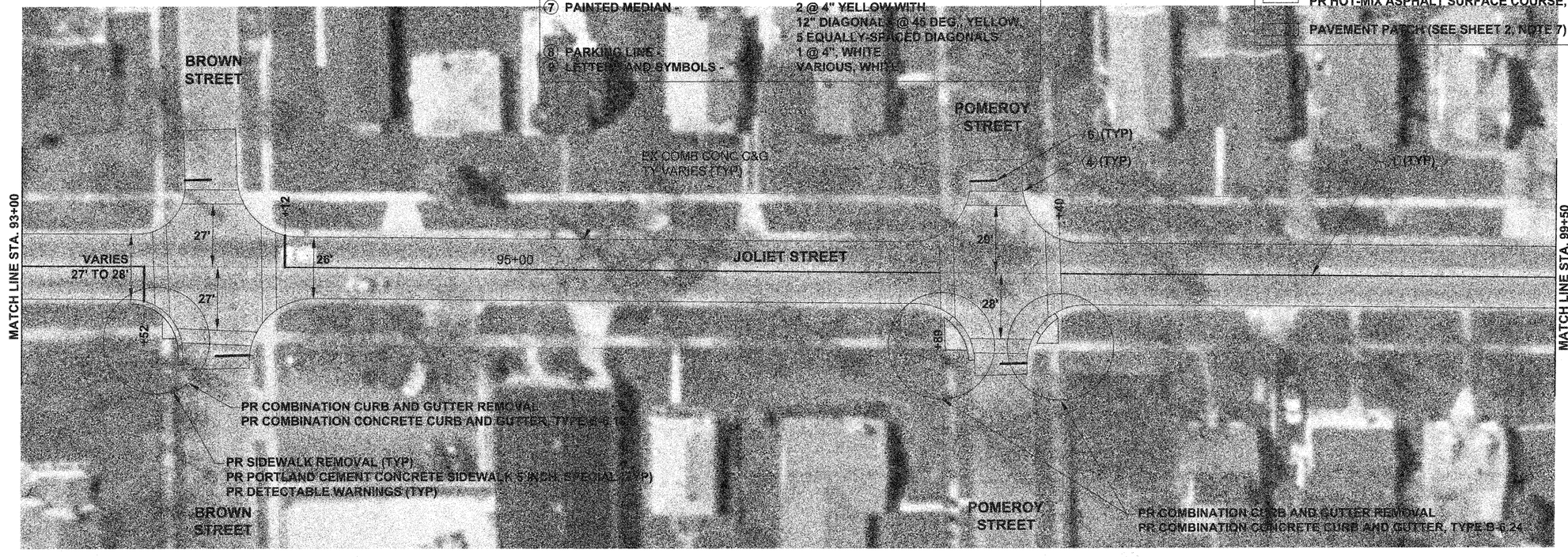
PR THERMOPLASTIC PAVEMENT MARKING LEGEND (TYP. NORTH OF IL RTE 38)

1.	CENTERLINE -	2 @ 4", YELLOW, 11' - 0"
2.	DOTTED LINE -	1 @ 6", WHITE, 3' DASH, 9' SKIP
3.	TURN LANE LINE -	1 @ 6", WHITE
(4)	CROSSWALK LINE (PEDESTRIAN) -	2 @ 6", WHITE
(5)	CROSSWALK LINE (SCHOOL) -	12" LINES @ 90 DEG., WHITE
(6)	STOP LINE -	1 @ 24", WHITE
(7)	PAINTED MEDIAN -	2 @ 4" YELLOW WITH 12" DIAGONALS @ 45 DEG., YELLOW, 5 EQUALLY-SPACED DIAGONALS
(8)	PARKING LINE -	1 @ 4", WHITE
(9)	LETTERS AND SYMBOLS -	VARIOUS, WHITE

PR HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

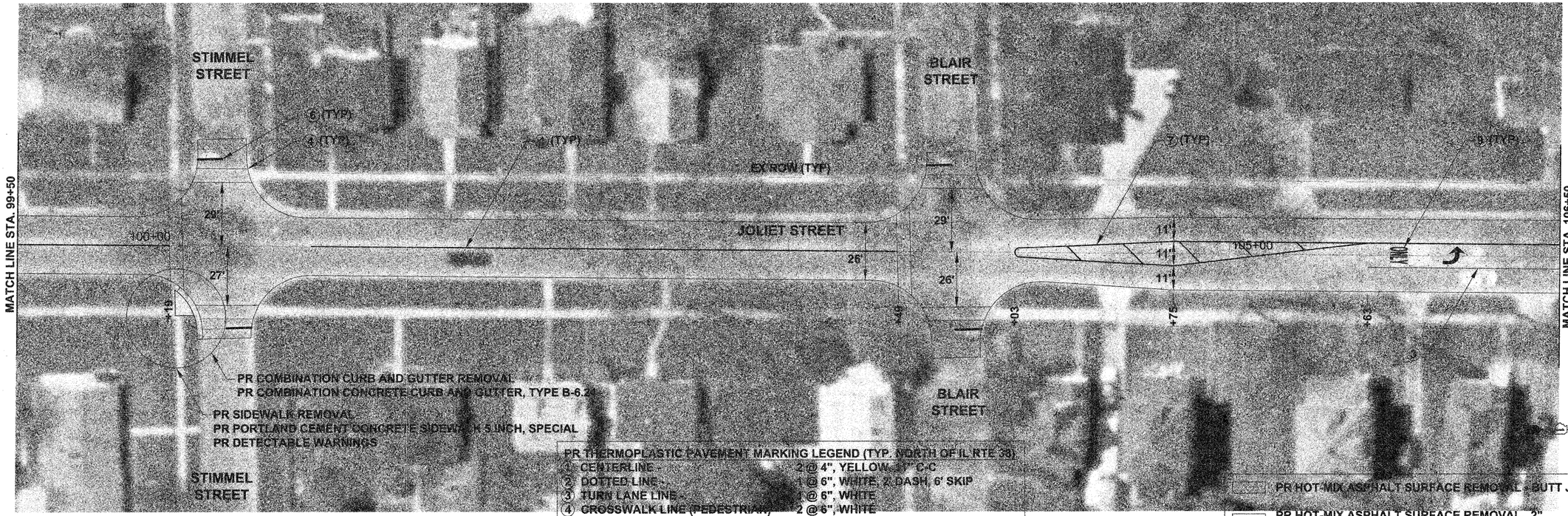
PR HOT-MIX ASPHALT SURFACE REMOVAL, 2"
PR POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, ¾"
PR HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½"

PAVEMENT PATCH (SEE SHEET 2, NOTE 7)



FILE NAME = 10-14_Plan Sheets_Joliet N LAPP	thomas engineering group, llc 238 south kenilworth avenue suite 100 oak park, il 60302 phone: 708-533-1700	DESIGNED - BLP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOLIET STREET - IL RTE 59 TO GENEVA STREET PLAN SHEET
PLOT DATE = 12/15/09		DRAWN - BLP	REVISED -		SCALE: 1" = 50' STA. 86+50 TO STA. 99+50
		CHECKED - DMM	REVISED -		
		DATE - 12/16/09	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2534	09-00074-00-RS	DUPAGE	22	12
		CONTRACT NO. 63374		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ARA-9003(405)		



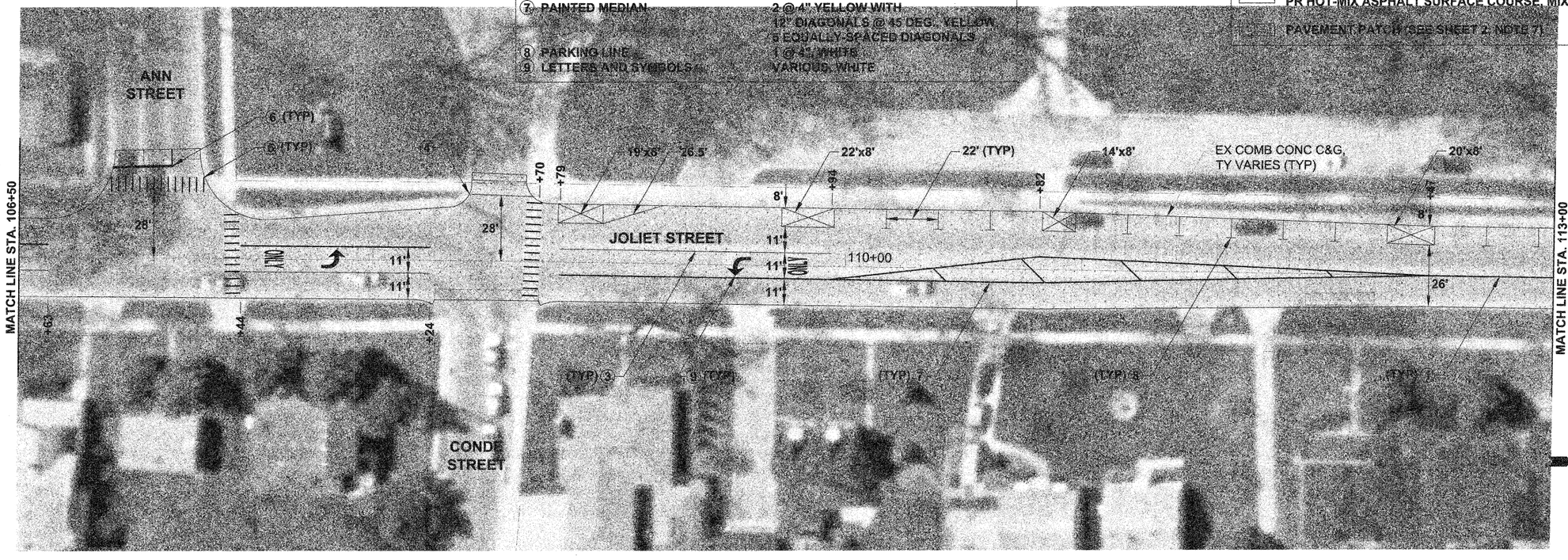
PR THERMOPLASTIC PAVEMENT MARKING LEGEND (TYP. NORTH OF IL RTE 38)

①	CENTERLINE -	2 @ 4", YELLOW, 1' C-C
②	DOTTED LINE -	1 @ 6", WHITE, 2 DASH, 6' SKIP
③	TURN LANE LINE -	1 @ 6", WHITE
④	CROSSWALK LINE (PEDESTRIAN)	2 @ 6", WHITE
⑤	CROSSWALK LINE (SCHOOL) -	12" LINES @ 90 DEG., WHITE
⑥	STOP LINE -	1 @ 24", WHITE
⑦	PAINTED MEDIAN -	2 @ 4" YELLOW WITH 12" DIAGONALS @ 45 DEG. YELLOW, 5 EQUALLY SPACED DIAGONALS
⑧	PARKING LINE -	1 @ 4", WHITE
⑨	LETTERS AND SYMBOLS -	VARIOUS, WHITE

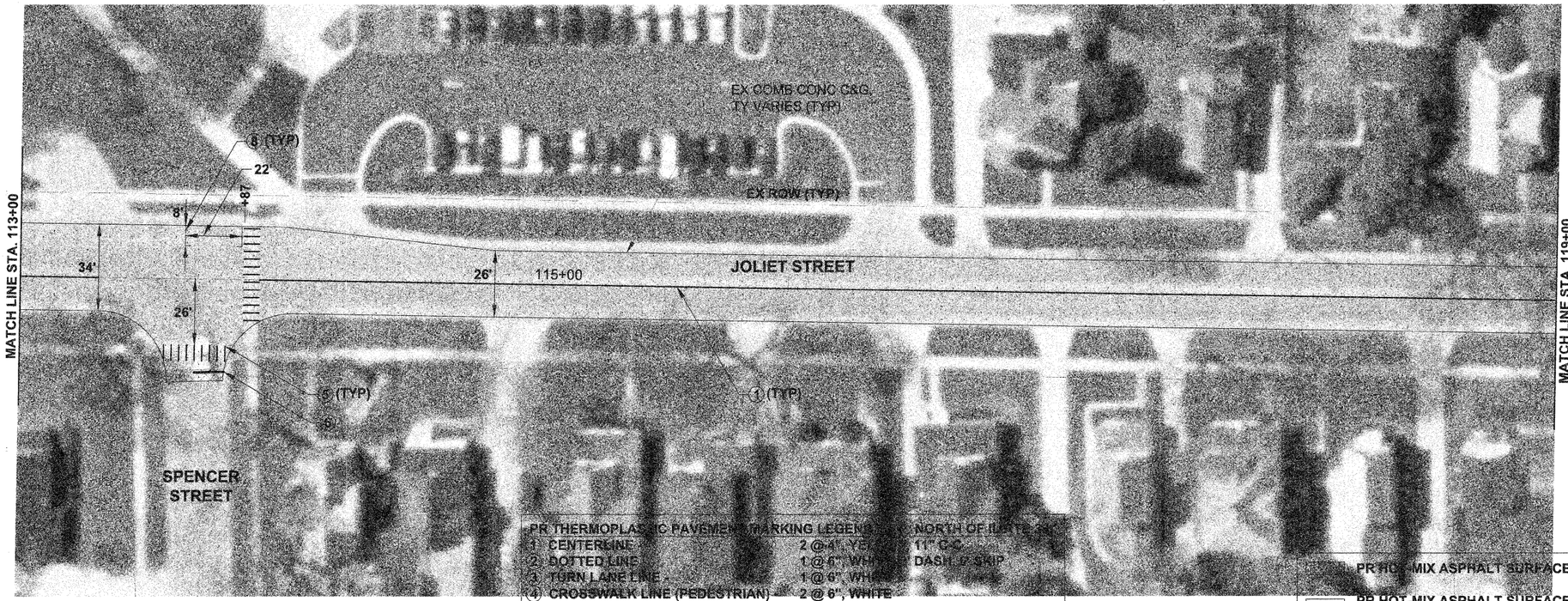
PR HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

PR HOT-MIX ASPHALT SURFACE REMOVAL, 2"
PR POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, ¾"
PR HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½"

PAVEMENT PAT. (SEE SHEET 2, NOTE 7)



FILE NAME = 10-14_Plan Sheets_Joliet N LAPP	thomas engineering group, llc 238 south kenilworth avenue suite 100 oak park, il 60302 phone: 708-533-1700	DESIGNED - BLP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOLIET STREET - IL RTE 59 TO GENEVA STREET PLAN SHEET	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT DATE = 12/15/09		DRAWN - BLP	REVISED -			2534	09-00074-00-RS	DUPAGE	22	13
		CHECKED - DMM	REVISED -					CONTRACT NO. 63374		
		DATE - 12/16/09	REVISED -		SCALE: 1" = 50' STA. 99+50 TO STA. 113+00	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ARA-9003(405)		



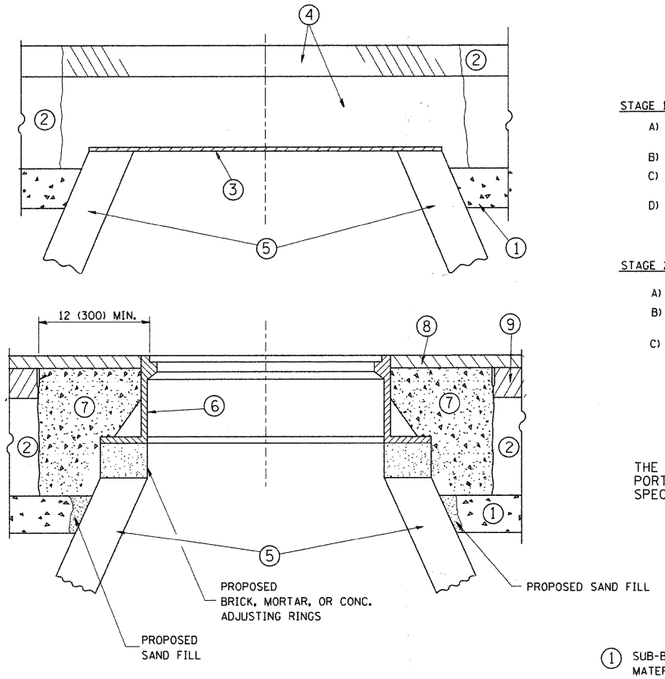
PR THERMOPLASTIC PAVEMENT MARKING LEGEND		NORTH OF ILLINOIS 64
1 CENTERLINE -	2 @ 4", YELLOW	11" C-C
2 DOTTED LINE -	1 @ 6", WHITE	DASH, 9' SKIP
3 TURN LANE LINE -	1 @ 6", WHITE	
4 CROSSWALK LINE (PEDESTRIAN) -	2 @ 6", WHITE	
5 CROSSWALK LINE (SCHOOL) -	12" LINES @ 90 DEG., WHITE	
6 STOP LINE -	1 @ 24", WHITE	
7 PAINTED MEDIAN -	2 @ 4" YELLOW WITH 12" DIAGONALS @ 45 DEG., YELLOW, 5 EQUALLY SPACED DIAGONALS	
8 PARKING LINE -	1 @ 4", WHITE	
9 LETTERS AND SYMBOLS -	VARIOUS, WHITE	

PR HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

PR HOT-MIX ASPHALT SURFACE REMOVAL, 2"
PR POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, ¾"
PR HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½"

PAVEMENT PATCH (SEE SHEET 2, NOTE 7)

FILE NAME = 10-14_Plan Sheets_Joliet N LAPP	thomas engineering group, llc 238 south kenilworth avenue suite 100 oak park, il 60302 phone: 708-533-1700	DESIGNED - BLP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOLIET STREET - IL RTE 59 TO GENEVA STREET PLAN SHEET	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT DATE = 12/15/09		DRAWN - BLP	REVISED -			2534	09-00074-00-RS	DUPAGE	22	14
		CHECKED - DMM	REVISED -						CONTRACT NO. 63374	
		DATE - 12/16/09	REVISED -		SCALE: 1" = 50' STA. 113+00 TO STA. 120+25	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ARA-9003(405)		



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.

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 SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE

(8) PROPOSED HMA SURFACE COURSE

(9) PROPOSED HMA BINDER COURSE

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.

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

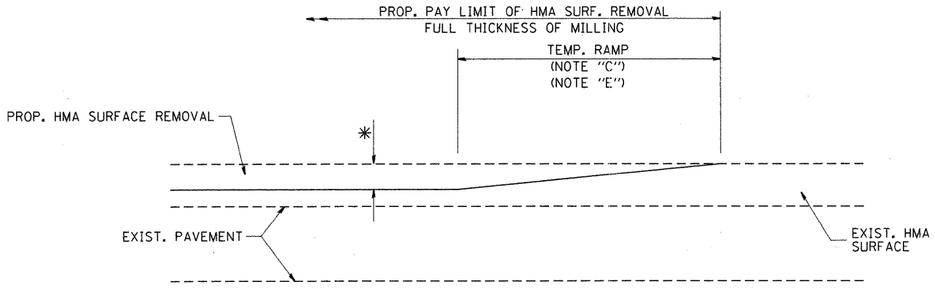
FILE NAME = W:\diststd\22x34\bd08.dgn	USER NAME = gaglianobt	DESIGNED - R. SHAH	REVISED - R. SHAH 03-10-95
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - R. WIEDEMAN 05-14-04
	PLOT DATE = 1/4/2008	DATE - 10-25-94	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING

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

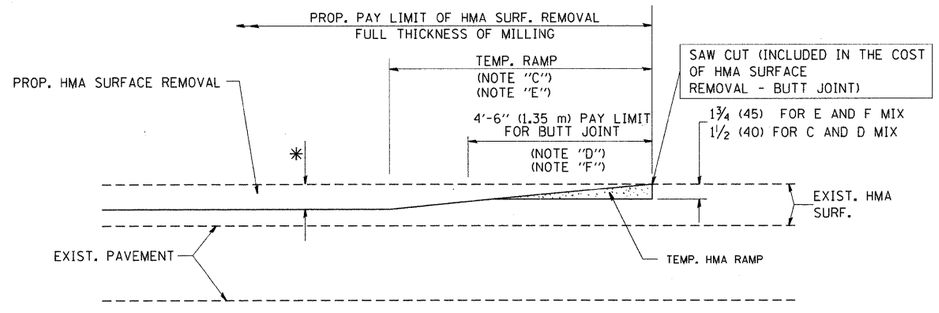
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2534	09-00074-00-RS	DUPAGE	22	15
	BD600-03 (BD-8)	CONTRACT NO. 63374		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	ARA-9003(405)	



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

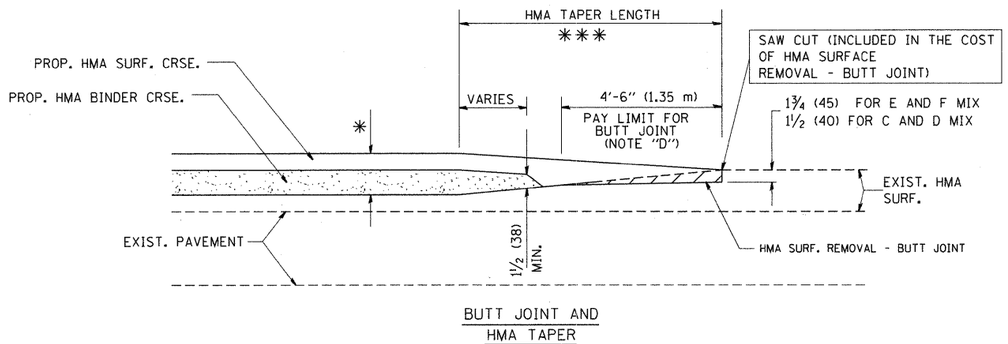


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

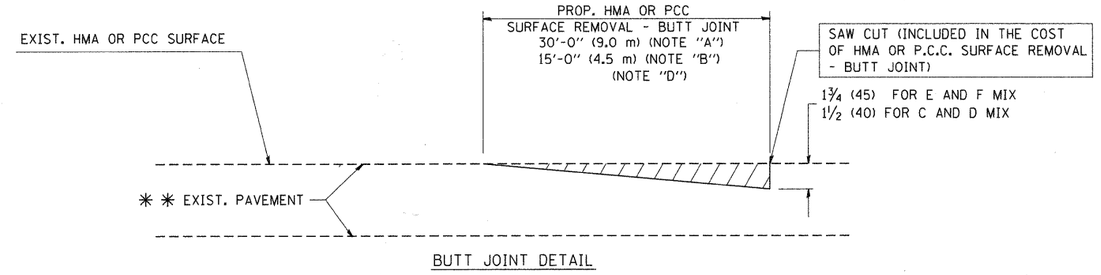
OPTION 2

TYPICAL TEMPORARY RAMP

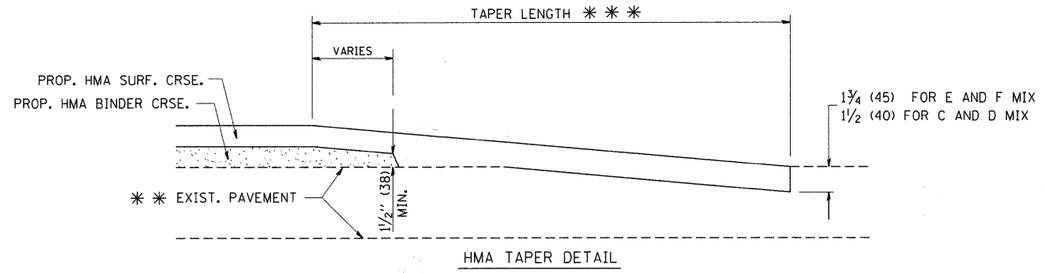


BUTT JOINT AND HMA TAPER

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")

BASIS OF PAYMENT:

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

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

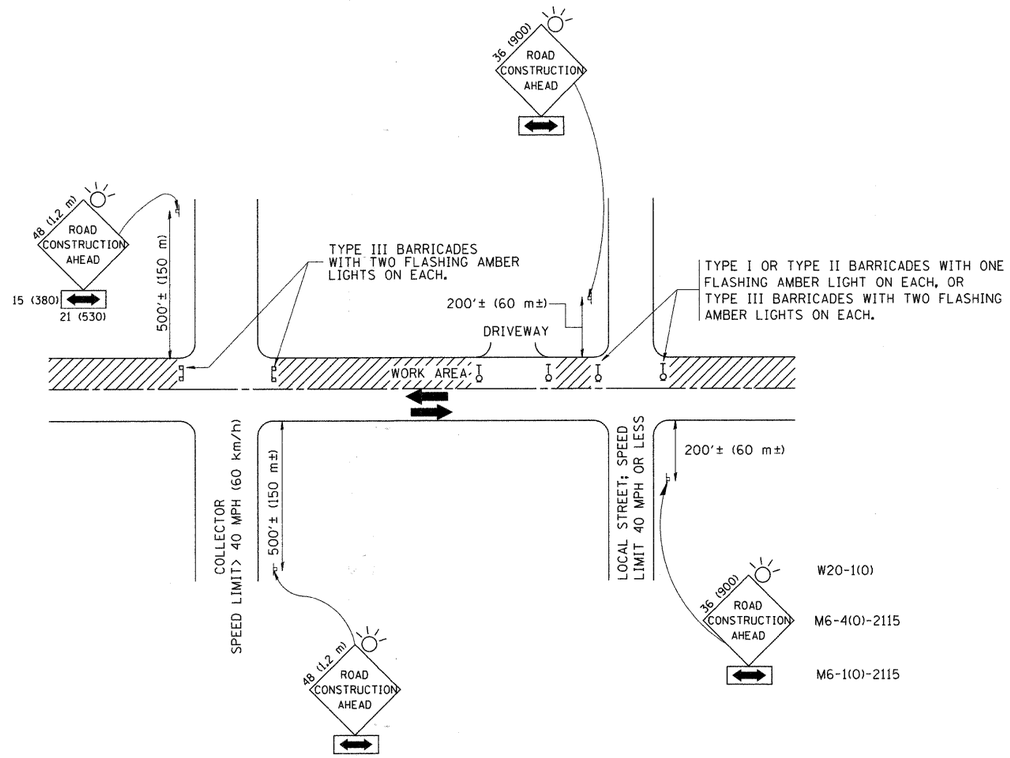
FILE NAME = W:\diststd\22x34\bd32.dgn	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2534	09-00074-00-RS	DUPAGE	22	16
	BD400-05 BD32	CONTRACT NO. 63374		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	ARA-9003(405)	



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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

FILE NAME = W:\diststd\22x34\tc10.dgn	USER NAME = gaglianobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	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 TRANSPORTATION

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

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2534	09-00074-00-RS	DUPAGE	22	17
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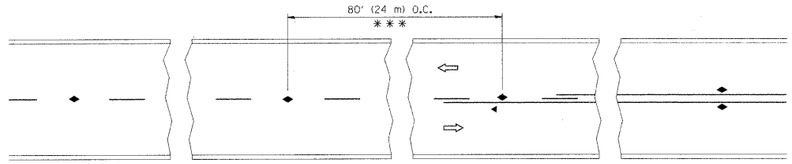
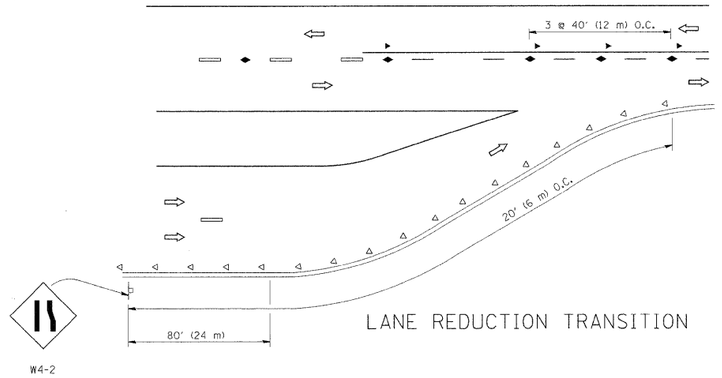
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT ARA-9003(405)		

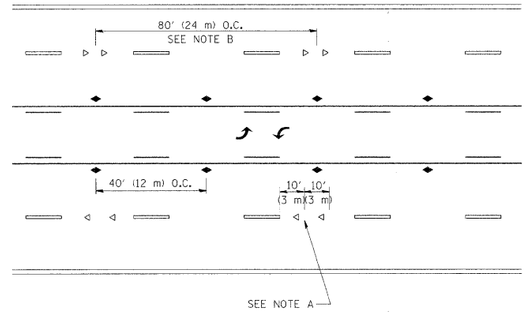


* * * REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 Km/h) OR LESS.

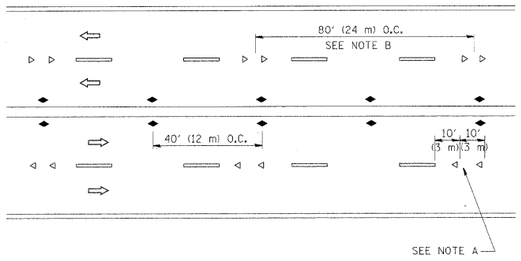
TWO-LANE/TWO-WAY



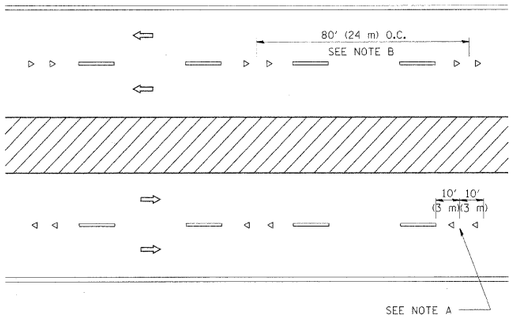
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

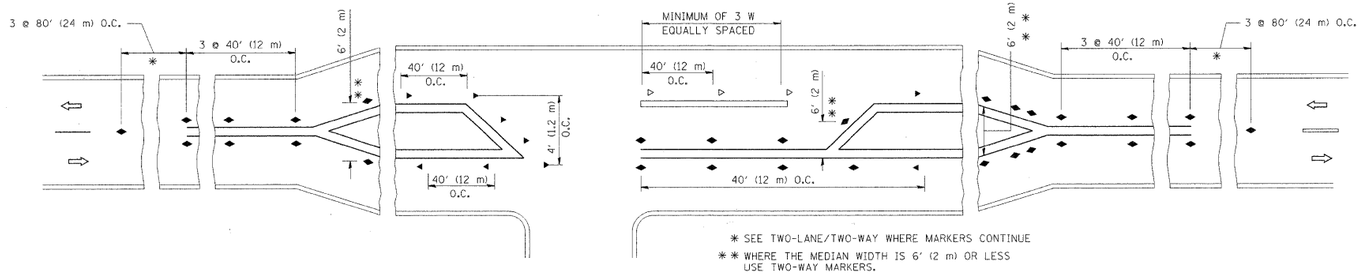
SYMBOLS

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

LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.



LEFT TURN

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.

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

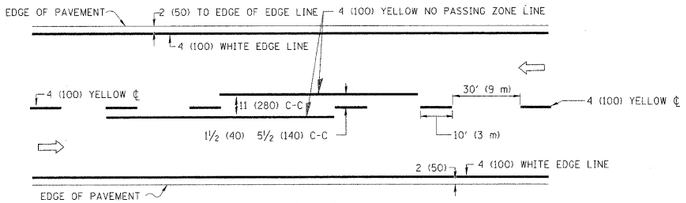
FILE NAME = c:\pw_work\pwidot\drivakosgn\d0108315\tc11.dgn	USER NAME = drivakosgn	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
		DRAWN -	REVISED - T. RAMMACHER 03-12-99
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 9/9/2009	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

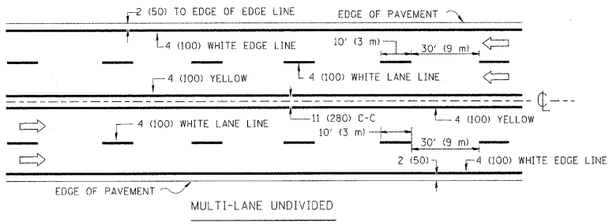
TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

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

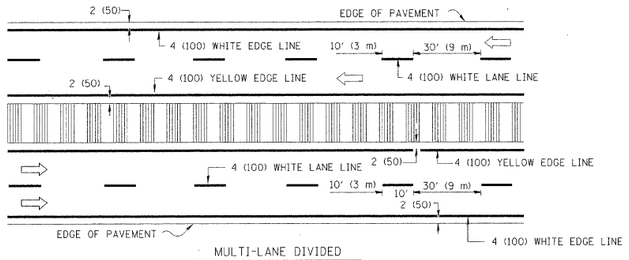
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2534	09-00074-00-RS	DUPAGE	22	18
	TC-11	CONTRACT NO. 63374		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	ARA-9003(405)	



2-LANE ROADWAY



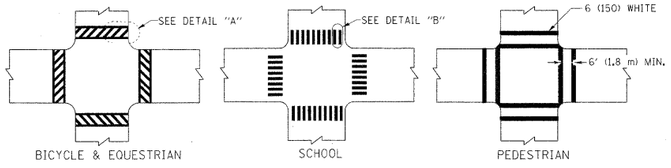
MULTI-LANE UNDIVIDED

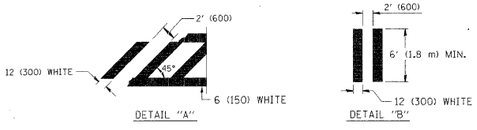


MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

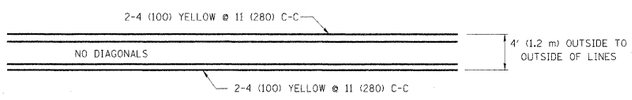
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

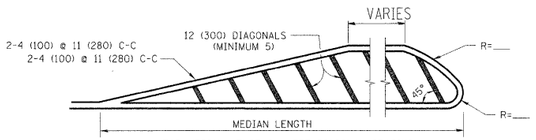




TYPICAL CROSSWALK MARKING



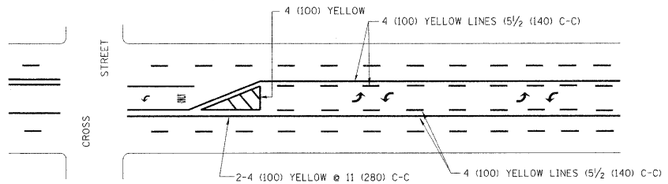
4' (1.2 m) WIDE MEDIANS ONLY



FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

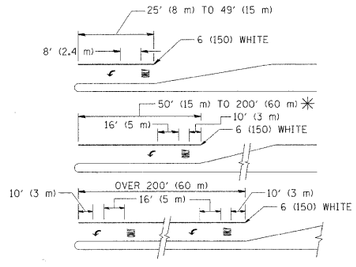
MEDIANS OVER 4' (1.2 m) WIDE



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

MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

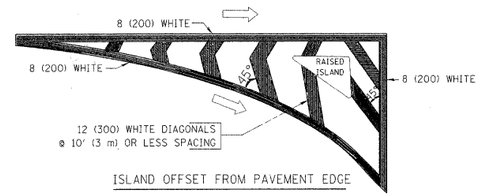


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m^2) **ONLY** AREA = 20.8 SQ. FT. (1.9 m^2)

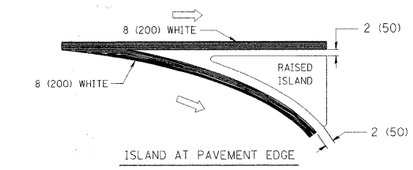
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

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	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 @ 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; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
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" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m^2) EACH "X"=54.0 SQ. FT. (5.0 m^2)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

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

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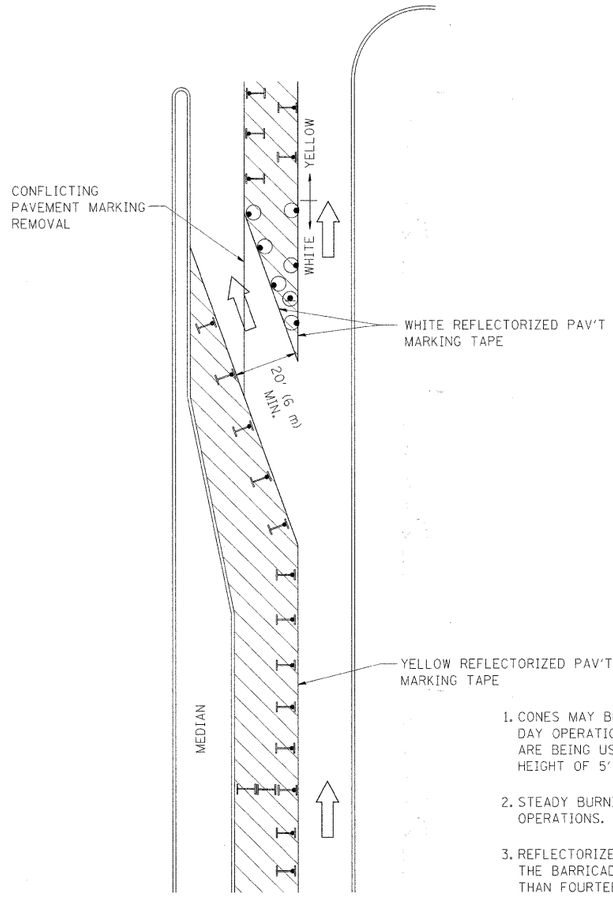
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

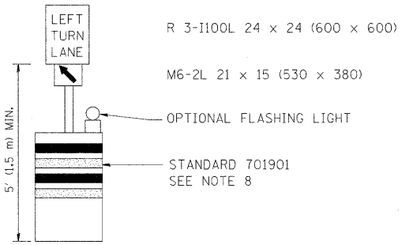
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2534	09-00074-00-RS	DUPAGE	22	19
	TC-13	CONTRACT NO. 63374		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	ARA-9003(405)	



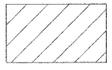


GENERAL NOTES

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

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

LEGEND



WORK AREA

LANE OPEN TO TRAFFIC

TYPE I OR II BARRICADE WITH STEADY BURN LIGHT

DRUM WITH STEADY BURN LIGHT

DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL

TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

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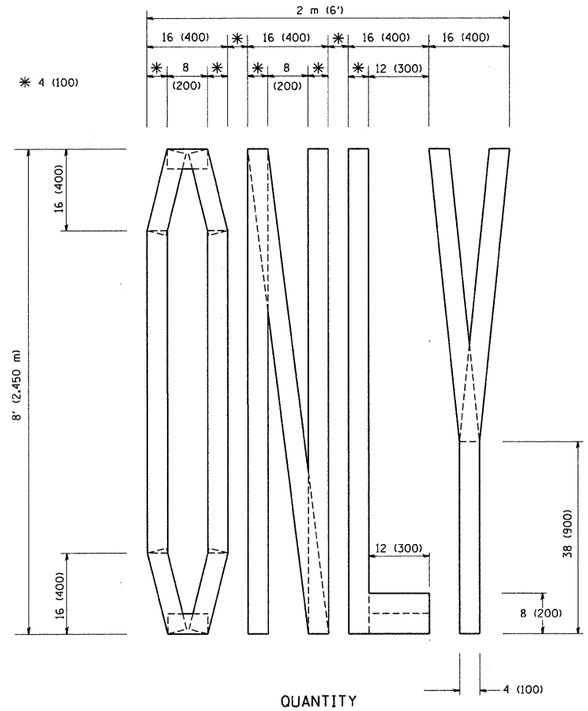
		REVISED - A. HOUSEH 11-07-95	REVISED -
	PLOT SCALE = 49.9999 ' / IN.	REVISED - A. HOUSEH 10-12-96	REVISED -
	PLOT DATE = 9/14/2009	REVISED -T. RAMMACHER 01-06-00	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

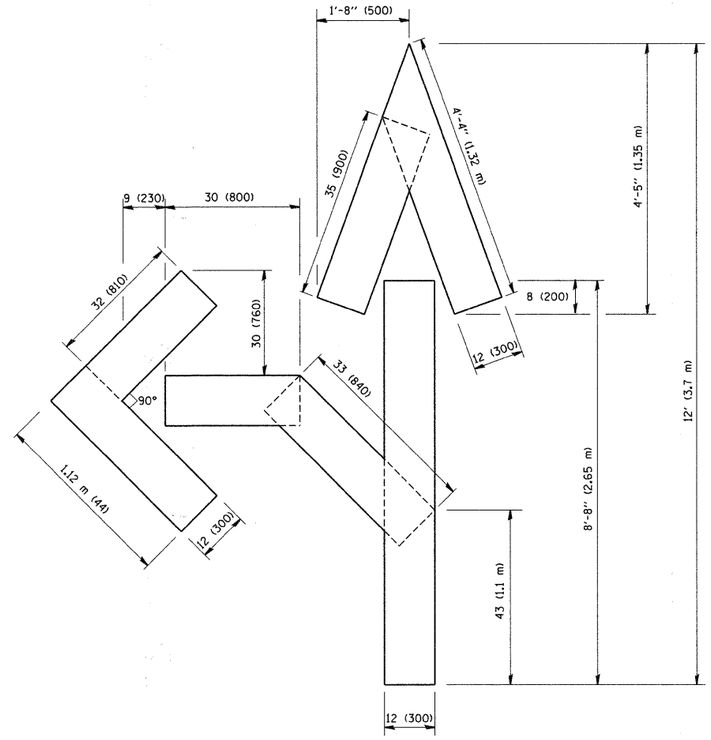
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)

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

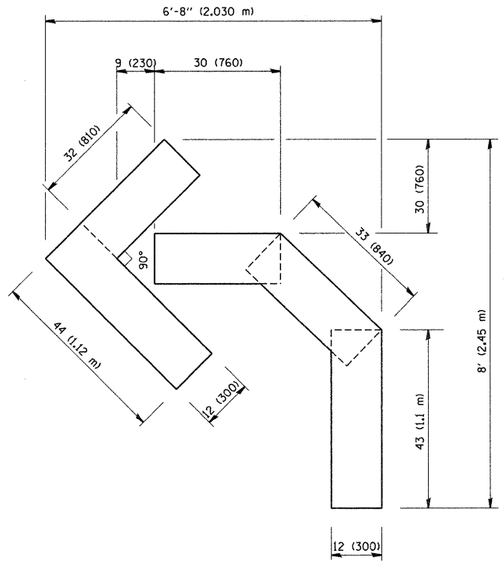
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2534	09-00074-00-RS	DUPAGE	22	20
	TC-14	CONTRACT NO. 63374		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	ARA-9003(405)	



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.

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		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. GOMEZ 08-28-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

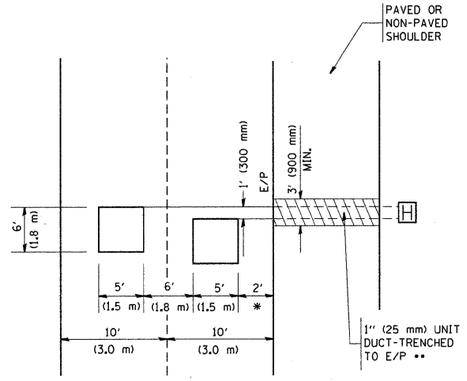
PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2534	09-00074-00-RS	DUPAGE	22	21
	TC-16	CONTRACT NO. 63374		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	ARA-9003(405)	

LOOPS NEXT TO SHOULDERS

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

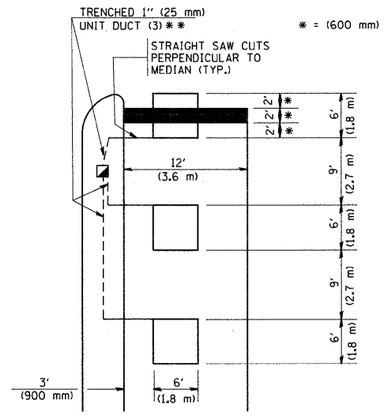


* = (600 mm)

** 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 FITS IN MEDIAN.

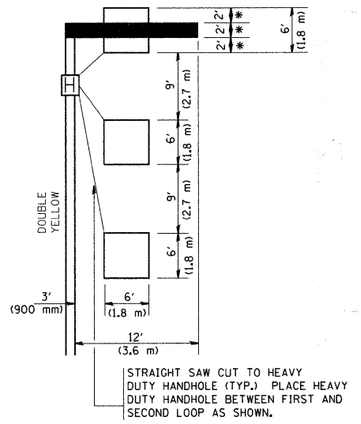


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

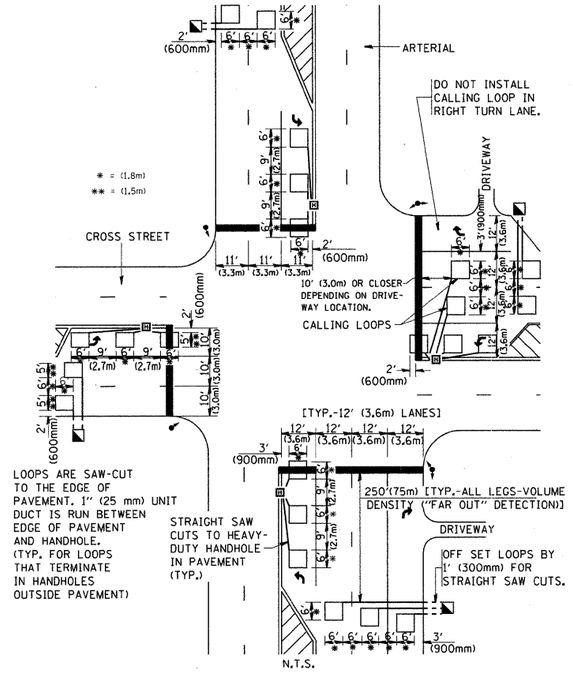
LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)

* = (600 mm)



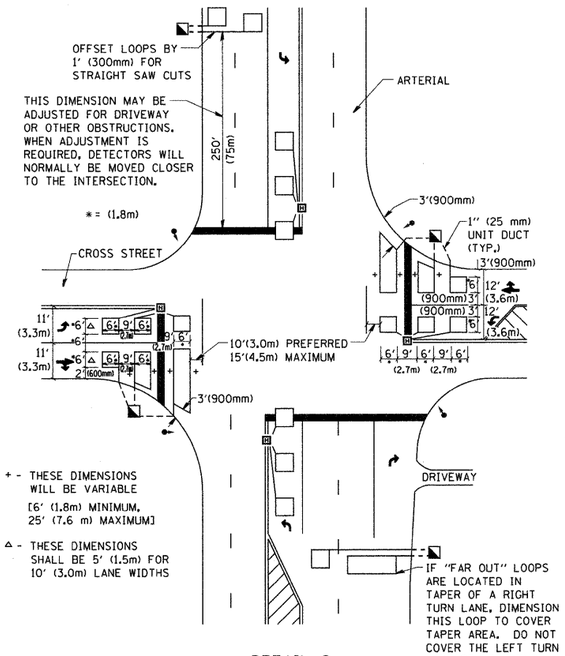
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



DETAIL 1
N.T.S.

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



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 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.

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		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 DETAILS FOR ROADWAY RESURFACING

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2534	09-00074-00-RS	DUPAGE	22	22
	TS-07	CONTRACT NO. 63374		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	ARA-9003(405)	