

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	111 N-RS-1	WILL	30	1
FED. ROAD DIST. NO. 1		ILLINOIS	CONTRACT NO. 60H37	

★ 30+1=31

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

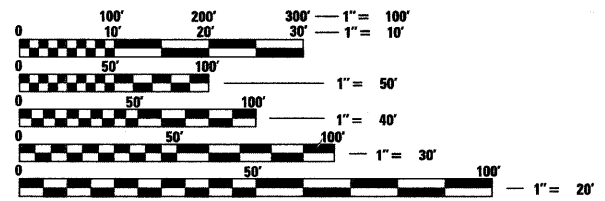
F.A.P. ROUTE 631: ILL ROUTE 102 (WATER STREET)  
RYAN ST. TO OLD CHICAGO RD.  
SECTION: 111 N-RS-1  
RESURFACING IMPROVEMENT  
WILL COUNTY  
C-91-607-09

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED  
IN THE CITY OF WILMINGTON



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

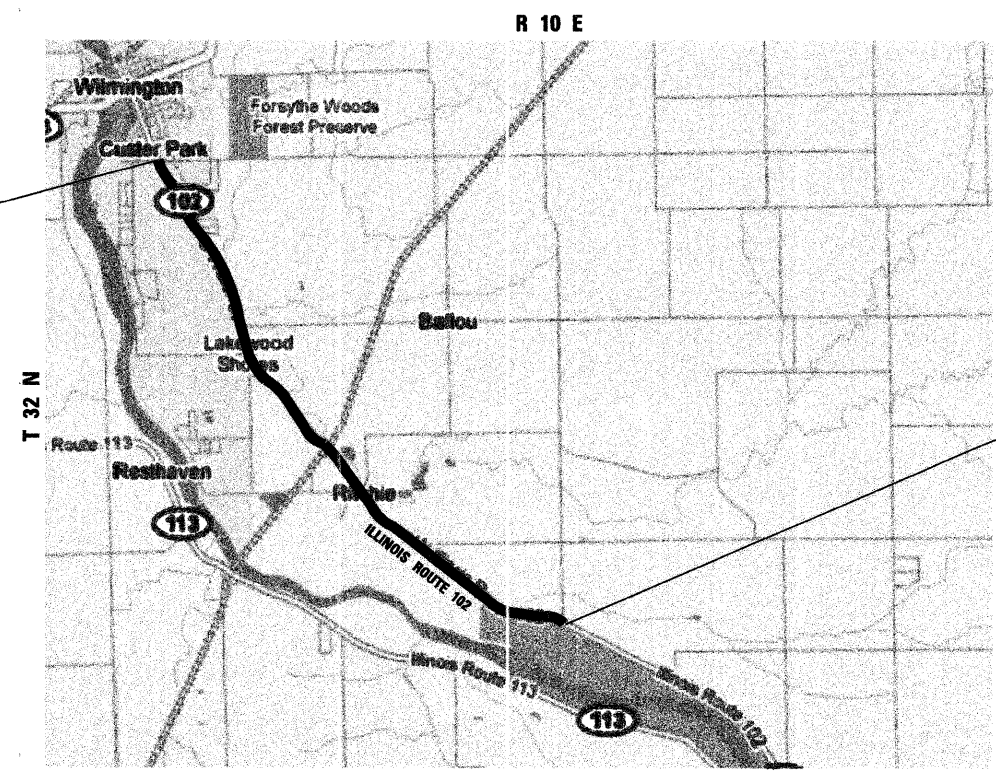


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

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

CONTRACT NO. 60H37



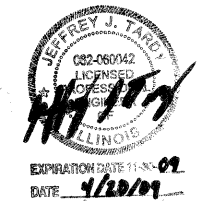
PROJECT ENDS  
STA. 1036 + 15.00



TRAFFIC DATA:  
2006 ADT = 4750  
POSTED SPEED LIMIT = 55 MPH

PROJECT BEGINS  
STA. 718 + 56.83

JEFFREY J. TARDY  
ALFRED BENESCH & CO.



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED APRIL 21 20 09

Diana M. O'Keefe  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 1, 20 09

Charles J. Ingersoll  
ENGINEER OF DESIGN AND ENVIRONMENT

May 1, 20 09

Christine M. Reed  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

GROSS LENGTH OF IMPROVEMENT = 31,758.17 LINEAL FEET = 6.01 MILES  
NET LENGTH OF IMPROVEMENT = 30,278.16 LINEAL FEET = 5.73 MILES

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

**INDEX OF SHEETS**

**GENERAL NOTES**

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	EXISTING AND PROPOSED TYPICAL SECTIONS
5-16	ROADWAY AND PAVEMENT MARKING PLANS
16A	<b>DETECTOR LOOP REPLACEMENT</b>
17	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-8)
18	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
19	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)
20	BUTT JOINT AND HMA TAPER DETAILS (BD-32)
21	HMA TAPER AT EDGE OF PCC PAVEMENT (BD-33)
22	DETAILS FOR STEEL PLATE BEAM GUARDRAIL ADJACENT TO CURB AND GUTTER STABILIZATION AT TBT TY I SPL. (BD-34)
23	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS INTERSECTIONS AND DRIVEWAYS, (TC-10)
24	TYPICAL APPLICATIONS: RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)
25	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
26	TRAFFIC CONTROL AND PROTECTION OF TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
27	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)
28	ARTERIAL ROAD INFORMATION SIGN (TC-22)
29	DRIVEWAY ENTRANCE SIGNING (TC-26)
30	DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES, (48 HOUR NOTIFICATION IS REQUIRED).
- 10 FEET TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS & GUTTERS AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF WILMINGTON.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT). IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- THE RESIDENT ENGINEER SHALL CONTACT CORY JUCIUS, TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
- THE RESIDENT ENGINEER SHALL CONTACT CORA MATHIS, AREA TRAFFIC FIELD ENGINEER AT (815) 485-6475 AT LEAST (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- ALL PAVEMENT MARKING SHALL BE PLACED THROUGHOUT THE PROJECT ACCORDING TO DISTRICT 1 TYPICAL PAVEMENT MARKING.
- ALL HMA PAVEMENT PATCHING SHALL BE CLASS D.
- ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD (FOR FUTURE REFERENCES), ALL EXISTING PAVEMENT MARKING LINES IN ORDER THAT THESE LOCATIONS CAN BE REESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.
- ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- DRAINAGE ADJUSTMENT, CLEANING OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS. STATIONS ARE SHOWN FOR REFERENCE ONLY AND APPROXIMATE.

- WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- SAW CUTTING PRIOR TO ANY REMOVAL ITEMS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
- THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- UNLESS OTHER CONDITIONS WARRANT, EXTENDED LANE CLOSURES SHALL BE AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS. OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.
- PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKINGS.
- TEMPORARY RAMPS AT BUTT JOINTS SHALL BE INCLUDED IN THE COST OF THE BUTT JOINT AS SHOWN ON THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET.
- MATCH EXISTING PAVEMENT MARKINGS AT THE PROJECT AND OMISSION LIMITS.
- PAY ITEM 55039700 - STORM SEWERS TO BE CLEANED - SHALL ONLY BE UTILIZED TO CLEAN STORM SEWER LATERAL PIPES BETWEEN INLETS OR CATCH BASINS AND MAIN SEWERS.

**STATE STANDARDS**

STANDARD NO.	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATION AND PATTERNS
424001-05	CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
604001-03	FRAME AND LIDS TYPE 1
604086-02	FRAME AND GRATE TYPE 23
604091-02	FRAME AND GRATE TYPE 24
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-08	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
701006-03	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-03	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
701306-02	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >= 45 MPH
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS ONLY
701336-05	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS >= 45 MPH
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

FILE NAME =	USER NAME = mcoleman	DESIGNED - MAC	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, STATE STANDARDS &amp; GENERAL NOTES ILL 102 (WATER STREET) - RYAN STREET TO TO OLD CHICAGO ROAD</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...\\General\p\m68729\tdx.dgn	PLOT SCALE = N.T.S.	DRAWN - IS	REVISED -			631	111 N-RS-1	WILL	30	2	
	PLOT DATE = 4/21/2009	CHECKED - JJT	REVISED -			CONTRACT NO. 60H37					
		DATE - 4/20/09	REVISED -			SCALE:	SHEET NO. 2 OF 30 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

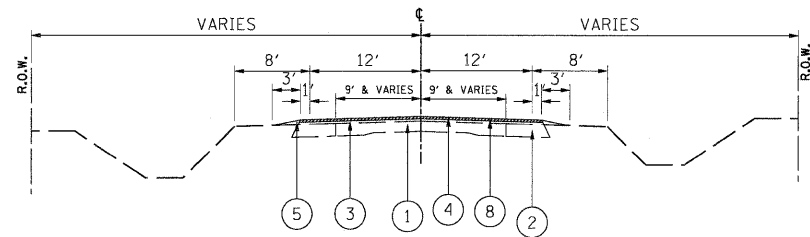
URBAN

CODE NO.	SUMMARY OF QUANTITIES ITEM DESCRIPTION	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE 100 % STATE	
				ROADWAY 1000	GUARDRAIL SFTY - 3J
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	19117	19117	
40600300	AGGREGATE (PRIME COAT)	TON	335.5	335.5	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	13	13	
40600895	CONSTRUCTING TEST STRIP	EACH	2	2	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	242	242	
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	1,438	1,438	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	8,028	8,028	
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	75	75	
42400800	DETECTABLE WARNINGS	SQ FT	30	30	
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	95,560	95,560	
44000600	SIDEWALK REMOVAL	SQ FT	75	75	
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	115	115	
44002214	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3 1/2"	SQ YD	6,583	6,583	
44201785	CLASS D PATCHES, TYPE I, 12 INCH	SQ YD	100	100	
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	805	805	
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SQ YD	840	840	
44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	4,838	4,838	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	1,725	1,725	
55039700	STORM SEWERS TO BE CLEANED	FOOT	100	100	
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1	1	
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	4	4	
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	9	9	
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	1,315		1,315
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE J (SPECIAL) TANGENT	EACH	19		19
63200310	GUARDRAIL REMOVAL	FOOT	722		722
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8	
67100100	MOBILIZATION	L SUM	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	

\* SPECIALTY ITEM

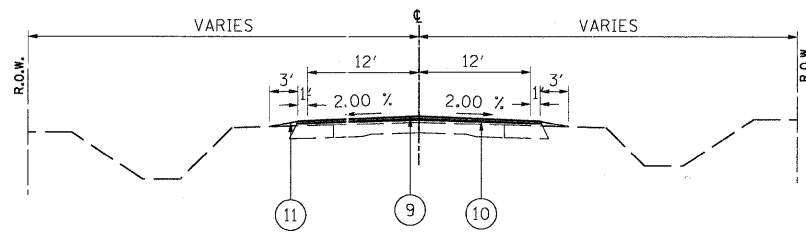
URBAN

CODE NO.	SUMMARY OF QUANTITIES ITEM DESCRIPTION	UNIT	TOTAL RURAL QUANTITIES	CONSTRUCTION TYPE CODE 100 % STATE	
				ROADWAY 1000	GUARDRAIL SFTY - 3J
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	50,150	50150	
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	21	21	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	100,299	100299	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	92	92	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	56	56	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	39	39	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	20.6	20.6	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	100,299	100299	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	92	92	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	56	56	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	39	39	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	960	960	
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	36	36	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	960	960	
* 81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	77	77	
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	268	268	
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	128.5	128.5	
X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	5,017	5017	
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	2	2	



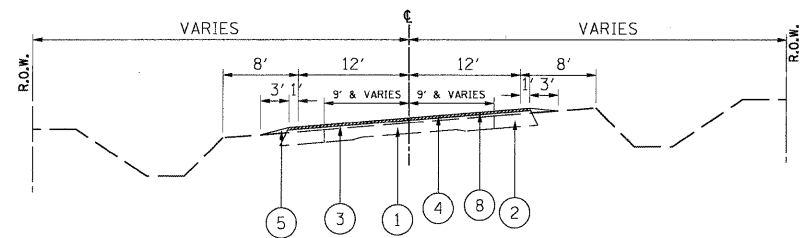
**IL - 102 (WATER STREET)  
EXIST. TYPICAL SECTIONS**

STA. 762+49.05 TO STA. 809+39.45  
 STA. 832+81.42 TO STA. 860+14.09  
 STA. 878+32.30 TO STA. 897+20.67  
 STA. 918+18.34 TO STA. 957+65.06  
 STA. 966+53.87 TO STA. 1013+50.00



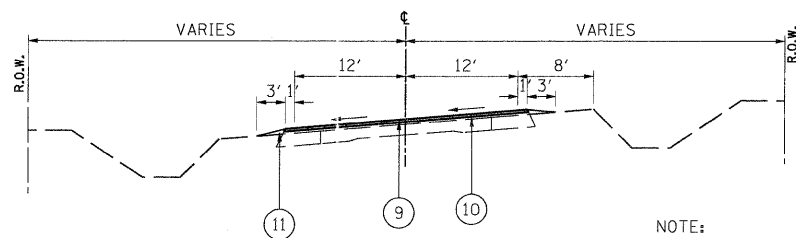
**IL - 102 (WATER STREET)  
PROP. TYPICAL SECTIONS**

STA. 762+49.05 TO STA. 809+39.45  
 STA. 832+81.42 TO STA. 860+14.09  
 STA. 878+32.30 TO STA. 897+20.67  
 STA. 918+18.34 TO STA. 957+65.06  
 STA. 966+53.87 TO STA. 1013+50.00



**IL - 102 (WATER STREET)  
EXIST. TYPICAL SECTIONS**

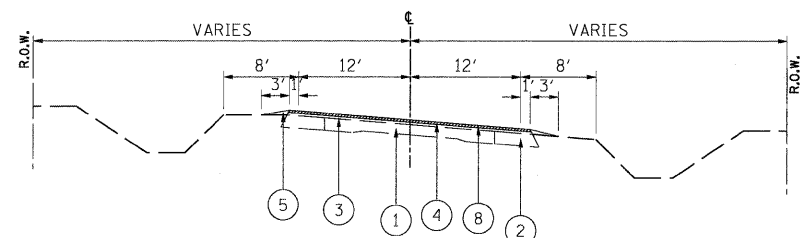
STA. 718+56.83 TO STA. 727+31.88  
 STA. 754+00.53 TO STA. 762+49.05  
 STA. 809+39.45 TO STA. 815+99.61  
 STA. 828+20.00 TO STA. 832+81.42  
 STA. 860+14.09 TO STA. 868+69.83  
 STA. 897+20.67 TO STA. 908+01.72  
 STA. 957+65.06 TO STA. 966+53.87  
 STA. 995+82.15 TO STA. 1005+91.08



**IL - 102 (WATER STREET)  
PROP. TYPICAL SECTIONS**

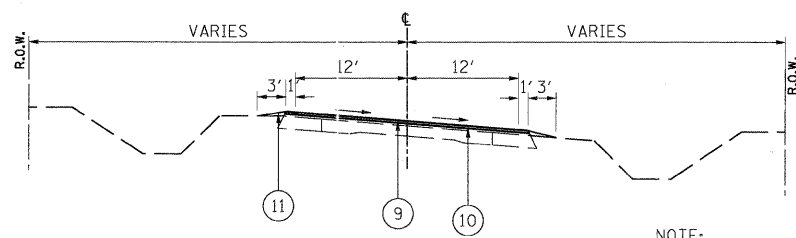
STA. 718+56.83 TO STA. 727+31.88  
 STA. 754+00.53 TO STA. 762+49.05  
 STA. 809+39.45 TO STA. 815+99.61  
 STA. 828+20.00 TO STA. 832+81.42  
 STA. 860+14.09 TO STA. 868+69.83  
 STA. 897+20.67 TO STA. 908+01.72  
 STA. 957+65.06 TO STA. 966+53.87  
 STA. 995+82.15 TO STA. 1005+91.08

NOTE:  
MATCH EXISTING CROSS SLOPE  
IN SUPERELEVATED SECTIONS



**IL - 102 (WATER STREET)  
EXIST. TYPICAL SECTIONS**

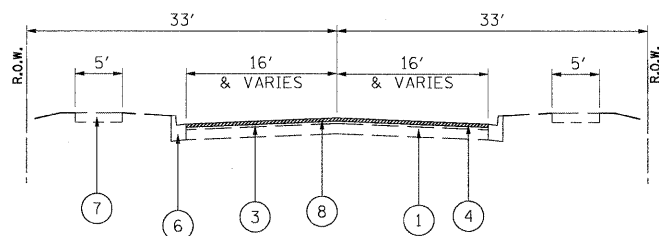
STA. 742+58.94 TO STA. 754+00.53  
 STA. 815+99.61 TO STA. 828+20.00  
 STA. 868+69.83 TO STA. 878+32.30  
 STA. 908+01.72 TO STA. 918+18.94



**IL - 102 (WATER STREET)  
PROP. TYPICAL SECTIONS**

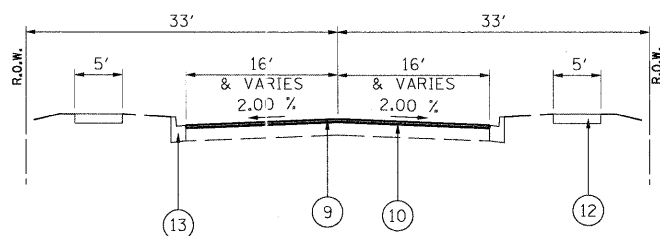
STA. 742+58.94 TO STA. 754+00.53  
 STA. 815+99.61 TO STA. 828+20.00  
 STA. 868+69.83 TO STA. 878+32.30  
 STA. 908+01.72 TO STA. 918+18.94

NOTE:  
MATCH EXISTING CROSS SLOPE  
IN SUPERELEVATED SECTIONS



**IL - 102 (WATER STREET)  
EXIST. TYPICAL SECTIONS**

STA. 1013+50.00 TO STA. 1036+50.00



**IL - 102 (WATER STREET)  
PROP. TYPICAL SECTIONS**

STA. 1013+50.00 TO STA. 1036+50.00

**LEGEND**

- ① EXIST. P.C.C. PAVEMENT
- ② EXIST. STABILIZED BASE COURSE
- ③ EXIST. BIT. CONC. BINDER COURSE
- ④ EXIST. BIT. SURFACE COURSE
- ⑤ EXIST. AGGREGATE SHOULDER
- ⑥ EXIST. COMBINATION CURB AND GUTTER
- ⑦ EXIST. P.C.C. SIDEWALK
- ⑧ HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- ⑨ PROP. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 1 1/2"
- ⑩ PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4" to 1"
- ⑪ PROP. AGGREGATE WEDGE SHOULDERS, TYPE B
- ⑫ PROP. P.C.C. SIDEWALK 4 INCH
- ⑬ PROP. COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.12

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

MIXTURE TYPE	AC TYPE	AIR VOIDS
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm)	PG 64-22	4% @ 70 CYR
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	SBS/SBR PG 76-28/-22	4% @ 50 CYR
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	PG 64-22*	4% @ 70 CYR
CLASS D PATCHES (HMA BINDER IL-19MM)	PG 64-22*	4% @ 70 CYR

NOTE: THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURES IS 112 LBS./SQ. YD./ IN.  
 \* WHEN RAP EXCEEDS 20% THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

FILE NAME =  
...\\sec60709ts.dgn

USER NAME = mcaiman  
 PLOT SCALE = N.T.S.  
 PLOT DATE = 4/21/2009

DESIGNED - MAC  
 DRAWN - IS  
 CHECKED - JJT  
 DATE - 4/20/09

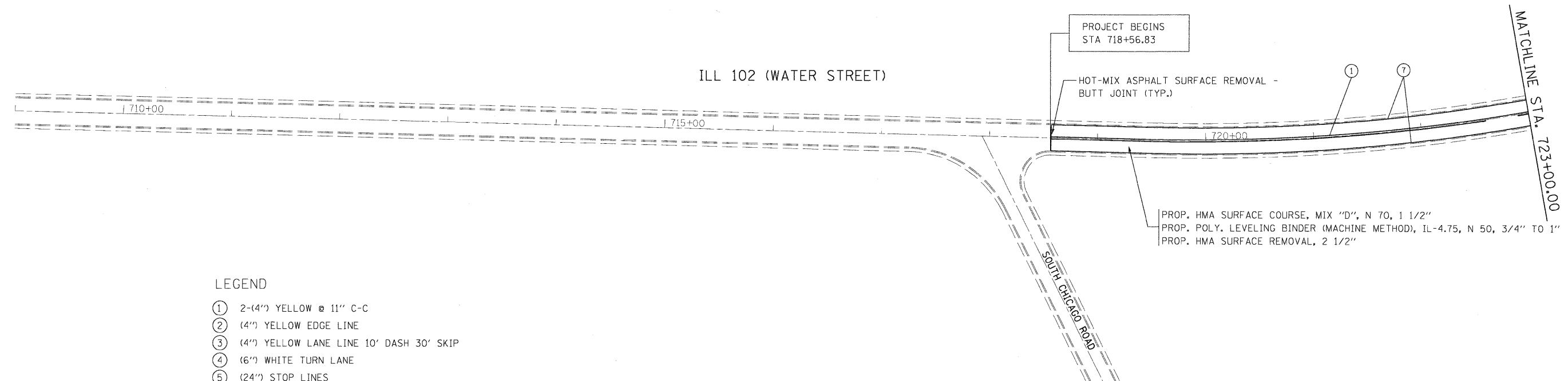
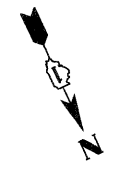
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED TYPICAL SECTIONS  
ILL 102 (WATER STREET) - RYAN STREET TO TO OLD CHICAGO ROAD**

SCALE: SHEET NO. OF 30 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	111 N-RS-1	WILL	30	4
CONTRACT NO. 60H37				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



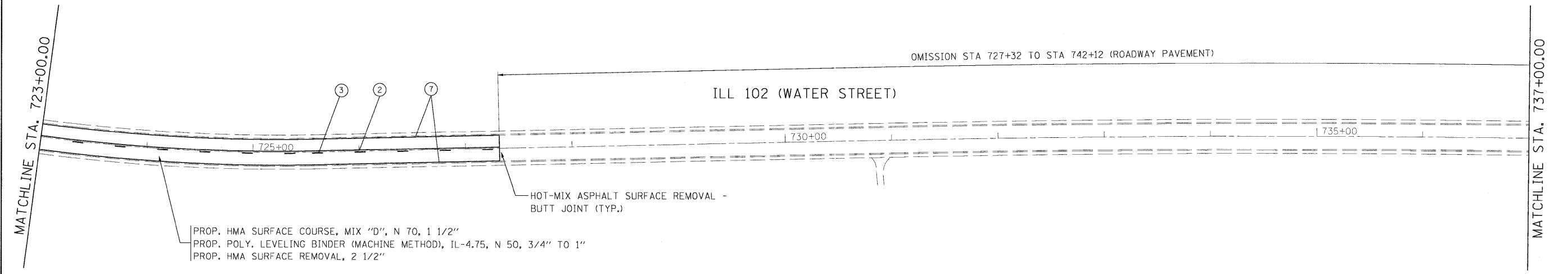
LEGEND

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

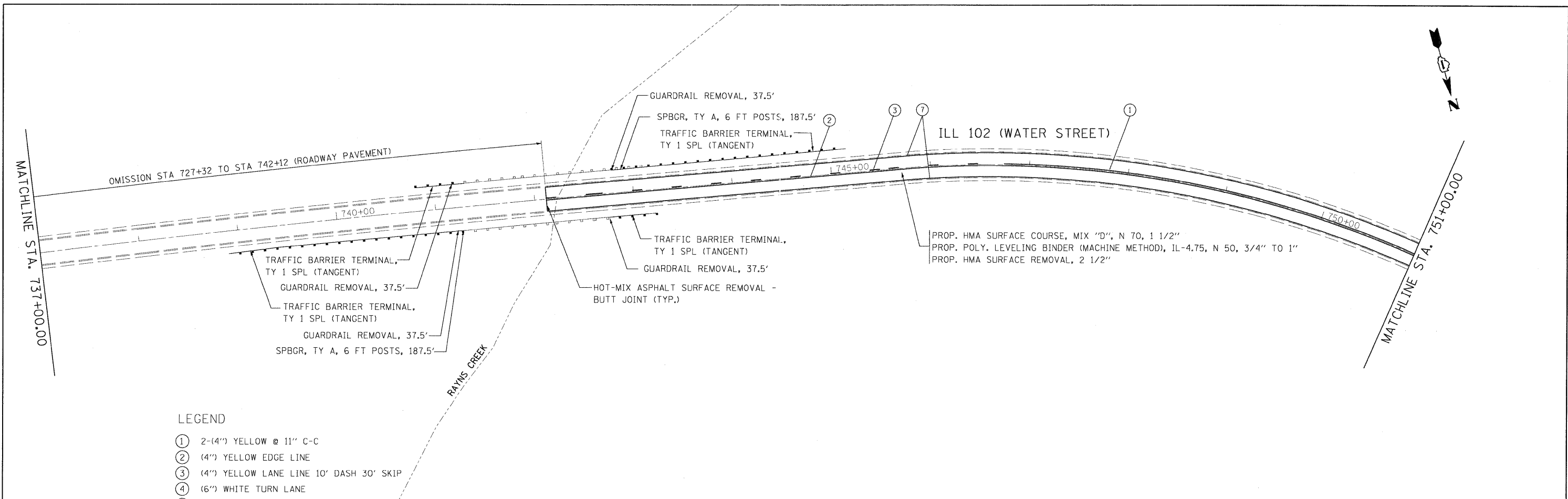
NOTES:

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

MILLING AND RESURFACING THROUGH INTERSECTIONS IS ASSUMED TO PROCEED ALONG EDGE OF IL 102 PAVEMENT UNLESS BUTT JOINTS ARE SHOWN ON CROSS STREETS.



FILE NAME - ...Plans\p1n68709pp&mrk1.dgn	USER NAME - moolaman	DESIGNED - MAC	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ROADWAY &amp; PAVEMENT MARKING PLANS ILL 102 (WATER STREET) - RYAN STREET TO TO OLD CHICAGO ROAD</b>			F.A.P. RTE. 631	SECTION 111 N-RS-1	COUNTY WILL	TOTAL SHEETS 30	SHEET NO. 5
	PLOT SCALE = 1" = 50'	DRAWN - IS	REVISED -		SCALE: 1" = 50'	SHEET NO.	OF 30 SHEETS	STA. 709+00	TO STA. 737+00	CONTRACT NO. 60H37		
	PLOT DATE = 4/21/2009	CHECKED - JJT	REVISED -		FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT							
		DATE - 4/20/09	REVISED -									



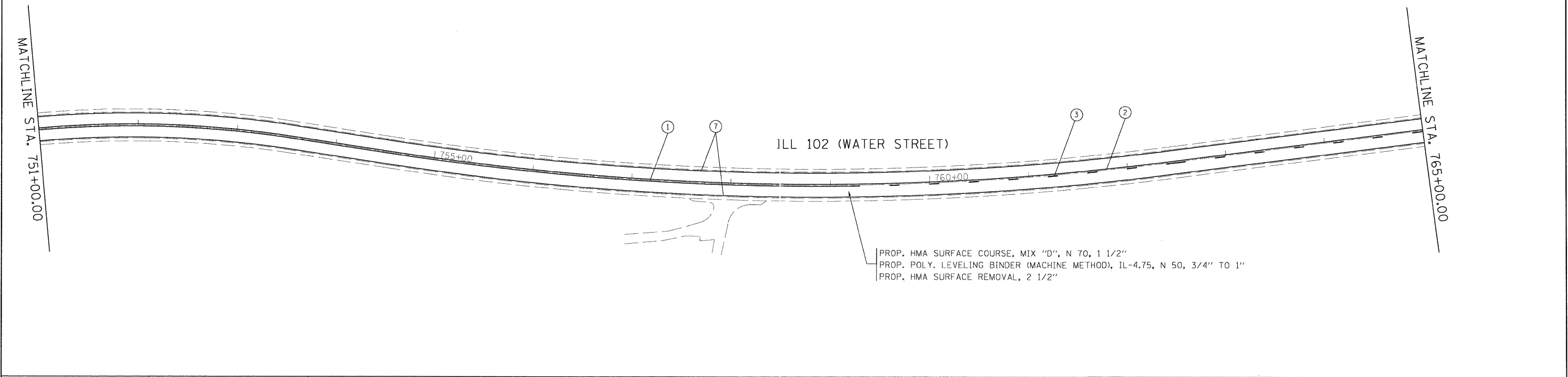
LEGEND

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

NOTES:

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

MILLING AND RESURFACING THROUGH INTERSECTIONS IS ASSUMED TO PROCEED ALONG EDGE OF ILL 102 PAVEMENT UNLESS BUTT JOINTS ARE SHOWN ON CROSS STREETS.



FILE NAME =  
...\\plens\p1n6878\pp&mrk2.dgn

USER NAME = mooleman  
PLOT SCALE = 1" = 50'  
PLOT DATE = 4/21/2009

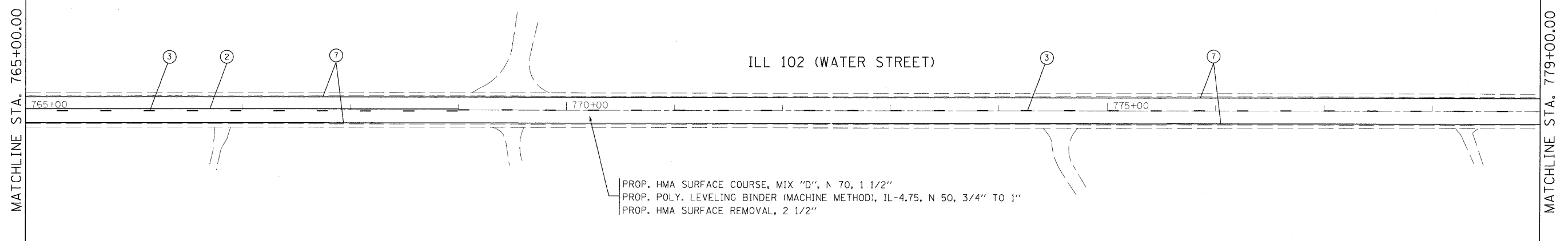
DESIGNED - MAC  
DRAWN - IS  
CHECKED - JJT  
DATE - 4/20/09

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROADWAY & PAVEMENT MARKING PLANS  
ILL 102 (WATER STREET) - RYAN STREET TO TO OLD CHICAGO ROAD  
SCALE: 1" = 50' SHEET NO. OF 30 SHEETS STA. 737+00 TO STA. 765+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	111 N-RS-1	WILL	30	6
CONTRACT NO. 60H37				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



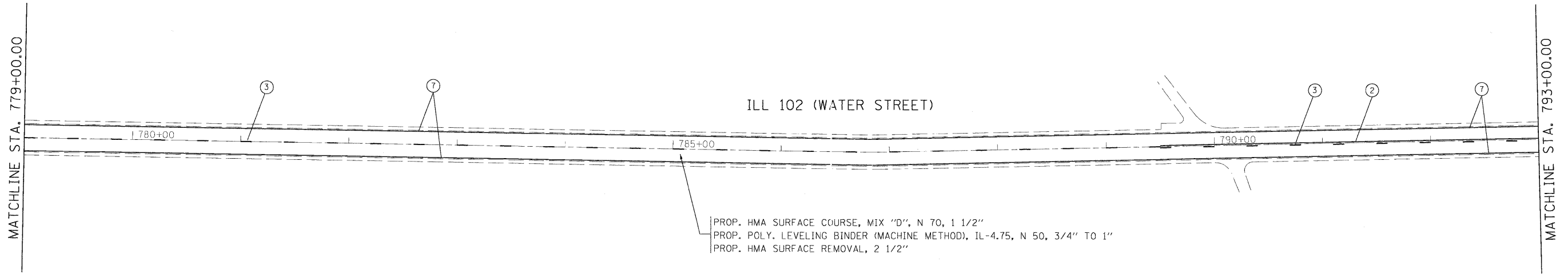
**LEGEND**

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

**NOTES:**

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

MILLING AND RESURFACING THROUGH INTERSECTIONS IS ASSUMED TO PROCEED ALONG EDGE OF IL 102 PAVEMENT UNLESS BUTT JOINTS ARE SHOWN ON CROSS STREETS.

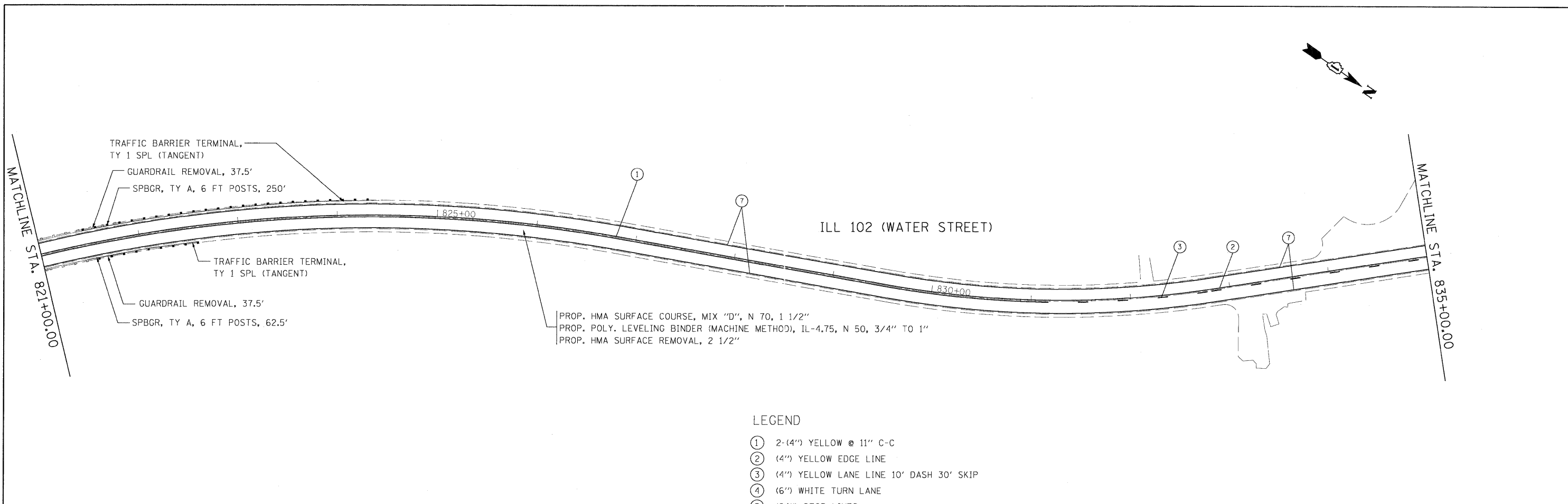


PROP. HMA SURFACE COURSE, MIX "D", N 70, 1 1/2"  
 PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N 50, 3/4" TO 1"  
 PROP. HMA SURFACE REMOVAL, 2 1/2"

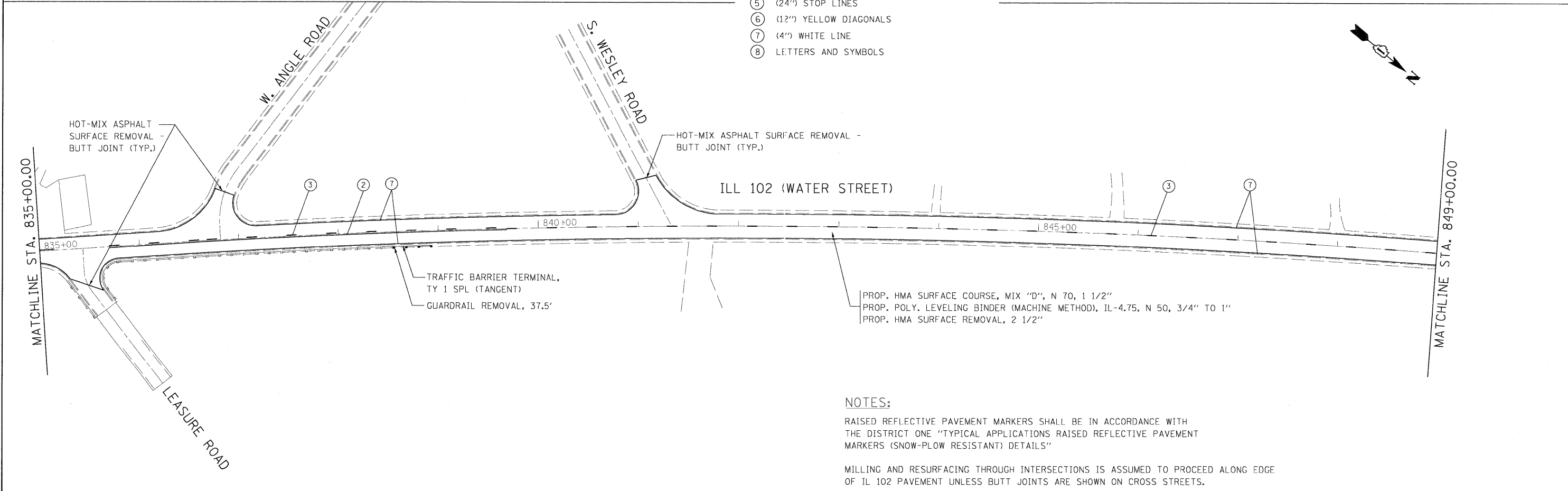
FILE NAME = ...Plans\p1n60781pp&mrk3.dgn	USER NAME = mcaleman	DESIGNED - MAC	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ROADWAY &amp; PAVEMENT MARKING PLANS ILL 102 (WATER STREET) - RYAN STREET TO TO OLD CHICAGO ROAD</b>			F.A.P. RTE. 631	SECTION 111 N-RS-1	COUNTY WILL	TOTAL SHEETS 30	SHEET NO. 7
PLLOT SCALE = 1" = 50'	CHECKED - JJT	DRAWN - IS	REVISED -		SCALE: 1" = 50'	SHEET NO.	OF 30 SHEETS	STA. 765+00	TO STA. 793+00	CONTRACT NO. 60H37		
PLLOT DATE = 4/21/2009	DATE - 4/20/09	CHECKED - JJT	REVISED -		FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT							
		DATE - 4/20/09	REVISED -									







- LEGEND
- ① 2-(4") YELLOW @ 11" C-C
  - ② (4") YELLOW EDGE LINE
  - ③ (4") YELLOW LANE LINE 10' DASH 30' SKIP
  - ④ (6") WHITE TURN LANE
  - ⑤ (24") STOP LINES
  - ⑥ (12") YELLOW DIAGONALS
  - ⑦ (4") WHITE LINE
  - ⑧ LETTERS AND SYMBOLS

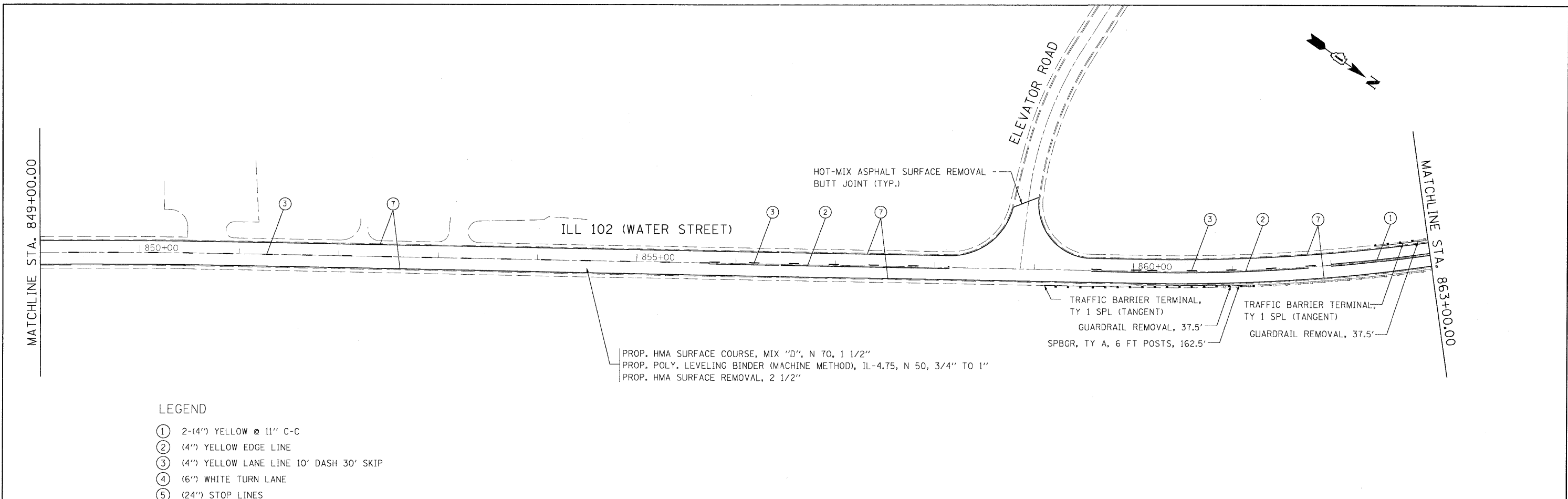


NOTES:

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

MILLING AND RESURFACING THROUGH INTERSECTIONS IS ASSUMED TO PROCEED ALONG EDGE OF IL 102 PAVEMENT UNLESS BUTT JOINTS ARE SHOWN ON CROSS STREETS.

FILE NAME = ...Plans\p1n62789pp&mrk5.dgn	USER NAME = mcoleman	DESIGNED - MAC	REVISIONS	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ROADWAY &amp; PAVEMENT MARKING PLANS ILL 102 (WATER STREET) - RYAN STREET TO TO OLD CHICAGO ROAD</b>	F.A.P. RTE. 631	SECTION 111 N-RS-1	COUNTY WILL	TOTAL SHEETS 30	SHEET NO. 9			
PLOT SCALE = 1" = 50'	CHECKED - JJT	DATE - 4/20/09	REVISIONS			SCALE: 1" = 50'	SHEET NO. OF 30 SHEETS	STA. 821+00	TO STA. 849+00	CONTRACT NO. 60H37			
PLOT DATE = 4/21/2009	DATE - 4/20/09	REVISIONS	FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT										



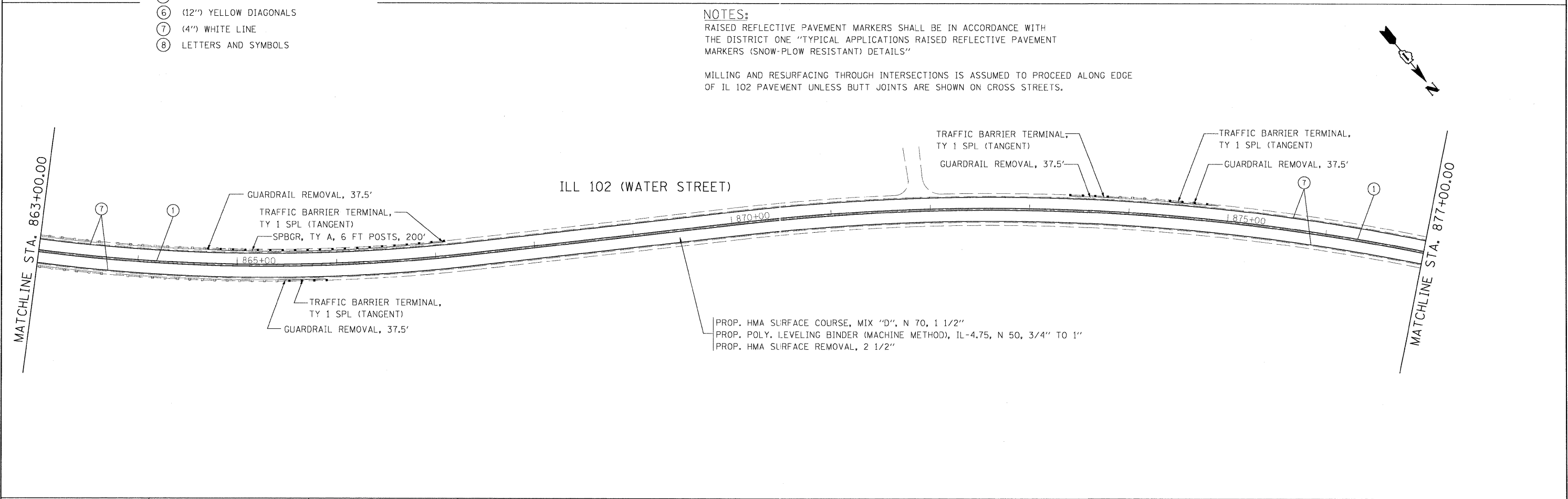
**LEGEND**

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

**NOTES:**

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

MILLING AND RESURFACING THROUGH INTERSECTIONS IS ASSUMED TO PROCEED ALONG EDGE OF IL 102 PAVEMENT UNLESS BUTT JOINTS ARE SHOWN ON CROSS STREETS.



FILE NAME =	...Plans\p1n60709pp&mk6.dgn
USER NAME =	moaleman
PLOT SCALE =	1" = 50'
PLOT DATE =	4/21/2009

DESIGNED -	MAC
DRAWN -	IS
CHECKED -	JJT
DATE -	4/20/09

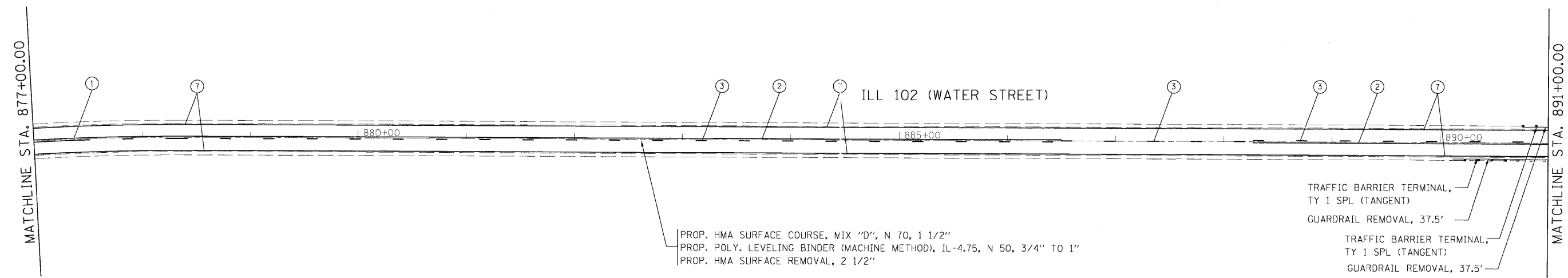
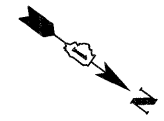
REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY & PAVEMENT MARKING PLANS  
ILL 102 (WATER STREET) - RYAN STREET TO TO OLD CHICAGO ROAD**

SCALE: 1" = 50' SHEET NO. OF 30 SHEETS STA. 849+00 TO STA. 877+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	111 N-RS-1	WILL	30	10
CONTRACT NO. 60H37				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



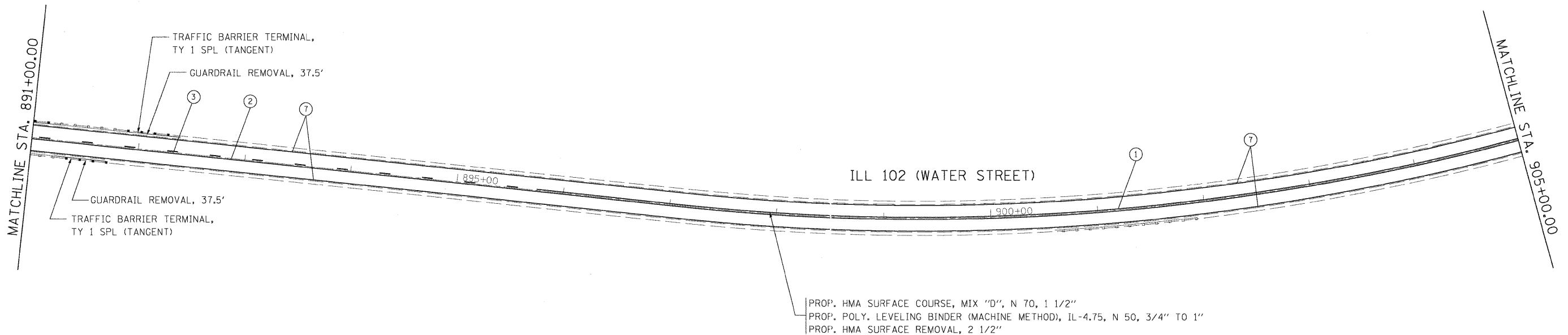
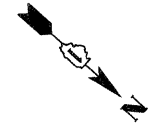
**LEGEND**

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

**NOTES:**

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

MILLING AND RESURFACING THROUGH INTERSECTIONS IS ASSUMED TO PROCEED ALONG EDGE OF ILL 102 PAVEMENT UNLESS BUTT JOINTS ARE SHOWN ON CROSS STREETS.



FILE NAME -	USER NAME - mooleman
...NPlans\p1n60789pp&mrk7.dgn	

DESIGNED - MAC	REVISOR -
DRAWN - IS	REVISIONS -
CHECKED - JJT	REVISIONS -
DATE - 4/20/09	REVISIONS -

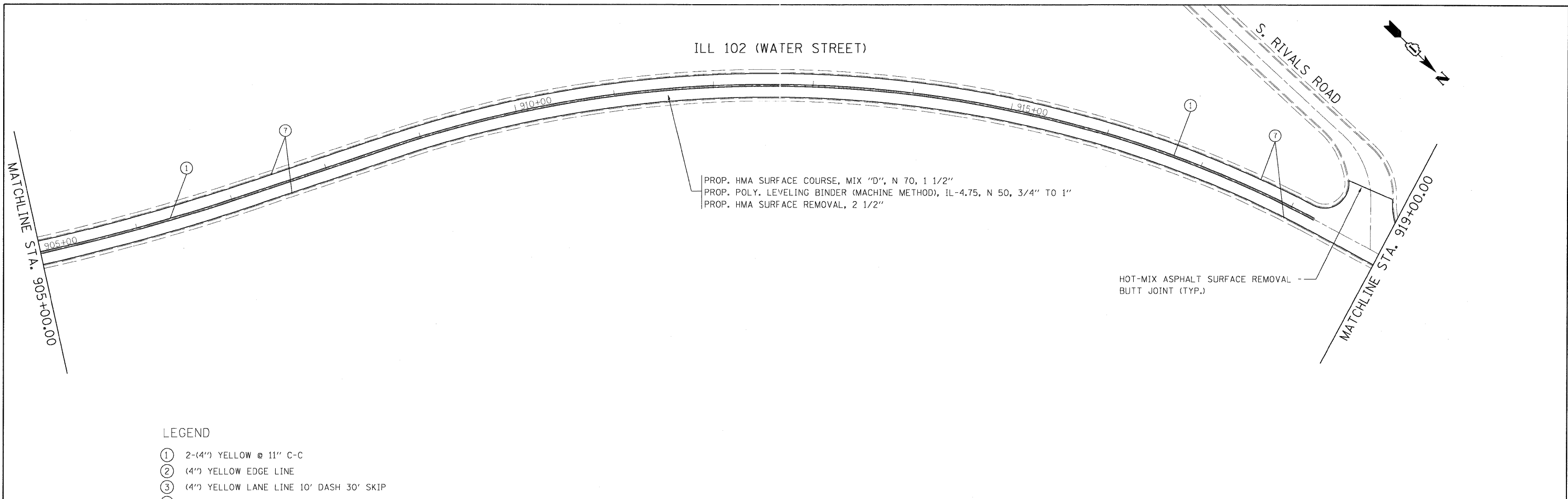
DESIGNED - MAC	REVISOR -
DRAWN - IS	REVISIONS -
CHECKED - JJT	REVISIONS -
DATE - 4/20/09	REVISIONS -

DESIGNED - MAC	REVISOR -
DRAWN - IS	REVISIONS -
CHECKED - JJT	REVISIONS -
DATE - 4/20/09	REVISIONS -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

ROADWAY & PAVEMENT MARKING PLANS			
ILL 102 (WATER STREET) - RYAN STREET TO TO OLD CHICAGO ROAD			
SCALE: 1" = 50'	SHEET NO. OF 30 SHEETS	STA. 877+00 TO STA. 905+00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	111 N-RS-1	WILL	30	11
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60H37	



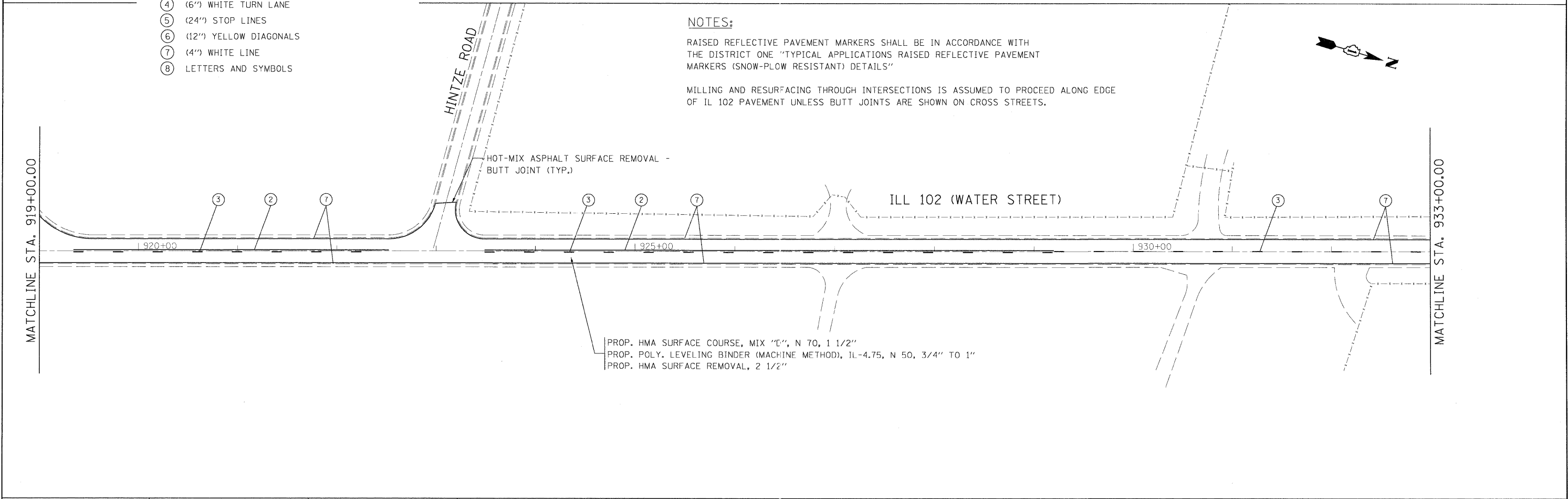
**LEGEND**

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

**NOTES:**

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

MILLING AND RESURFACING THROUGH INTERSECTIONS IS ASSUMED TO PROCEED ALONG EDGE OF IL 102 PAVEMENT UNLESS BUTT JOINTS ARE SHOWN ON CROSS STREETS.



FILE NAME =  
...Plans\pin6078\pp&mrk8.dgn

USER NAME = mooleman  
PLOT SCALE = 1" = 50'  
PLOT DATE = 4/21/2009

DESIGNED - MAC  
DRAWN - IS  
CHECKED - JJT  
DATE - 4/20/09

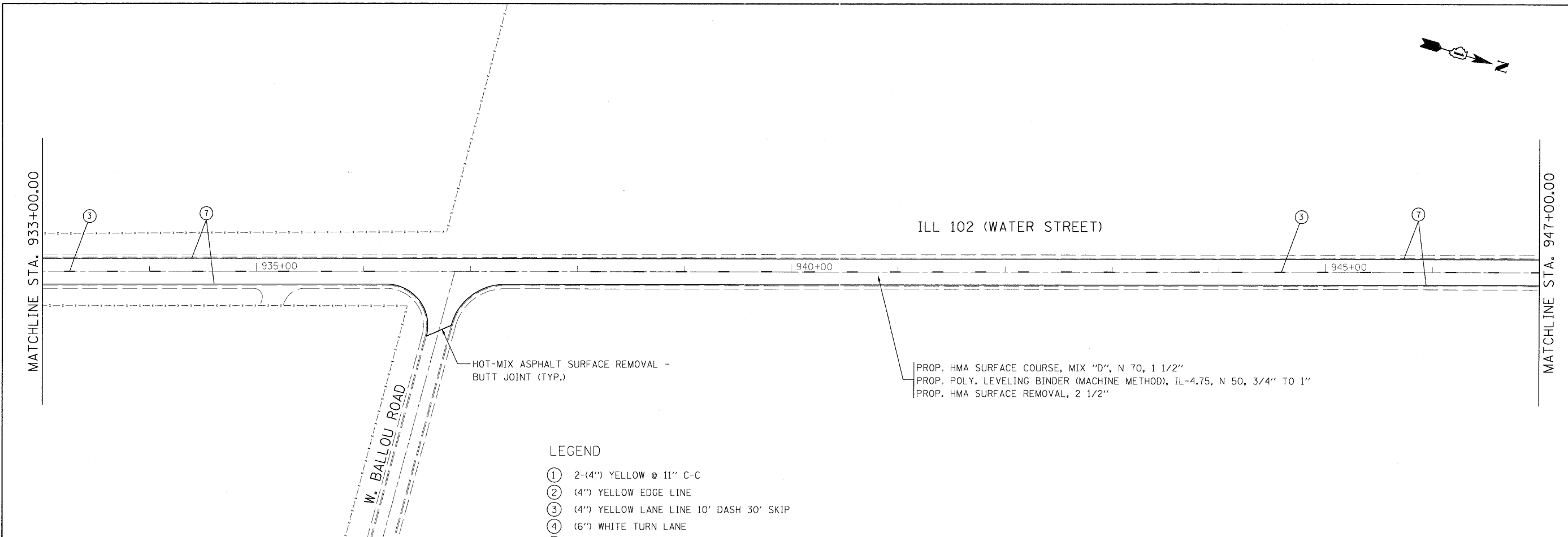
REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY & PAVEMENT MARKING PLANS  
ILL 102 (WATER STREET) - RYAN STREET TO TO OLD CHICAGO ROAD**

SCALE: 1" = 50' SHEET NO. OF 30 SHEETS STA. 905+00 TO STA. 933+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	111 N-RS-1	WILL	30	12
CONTRACT NO. 60H37				
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				

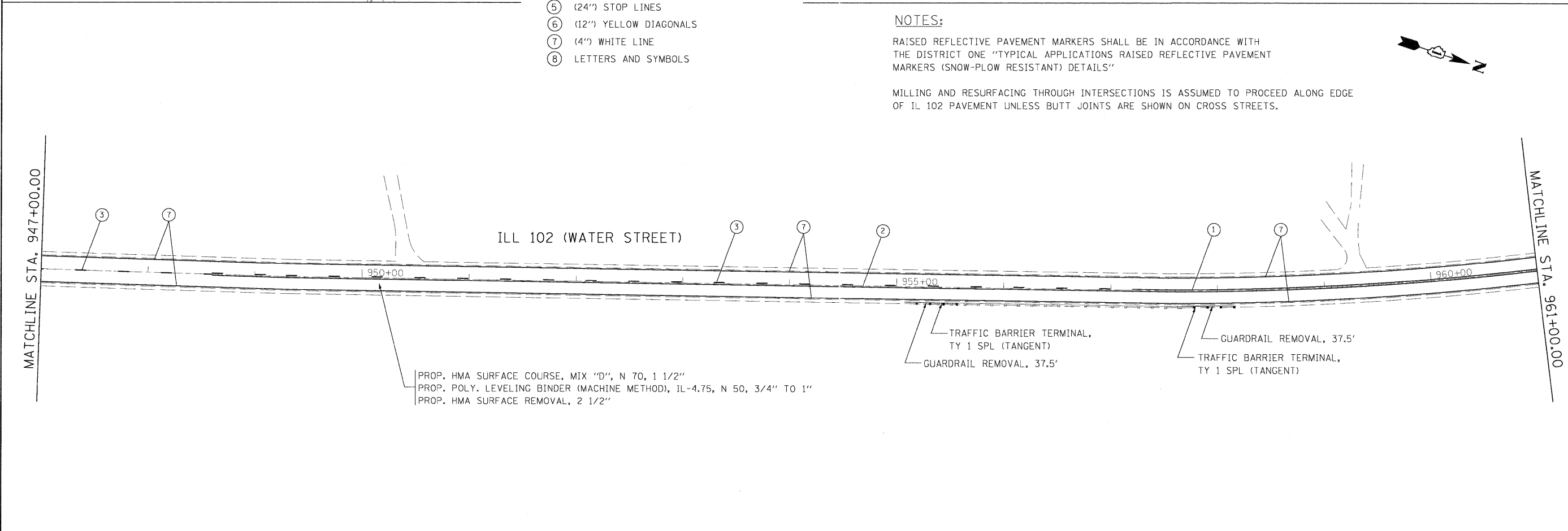


- LEGEND**
- ① 2-(4") YELLOW @ 11" C-C
  - ② (4") YELLOW EDGE LINE
  - ③ (4") YELLOW LANE LINE 10' DASH 30' SKIP
  - ④ (6") WHITE TURN LANE
  - ⑤ (24") STOP LINES
  - ⑥ (12") YELLOW DIAGONALS
  - ⑦ (4") WHITE LINE
  - ⑧ LETTERS AND SYMBOLS

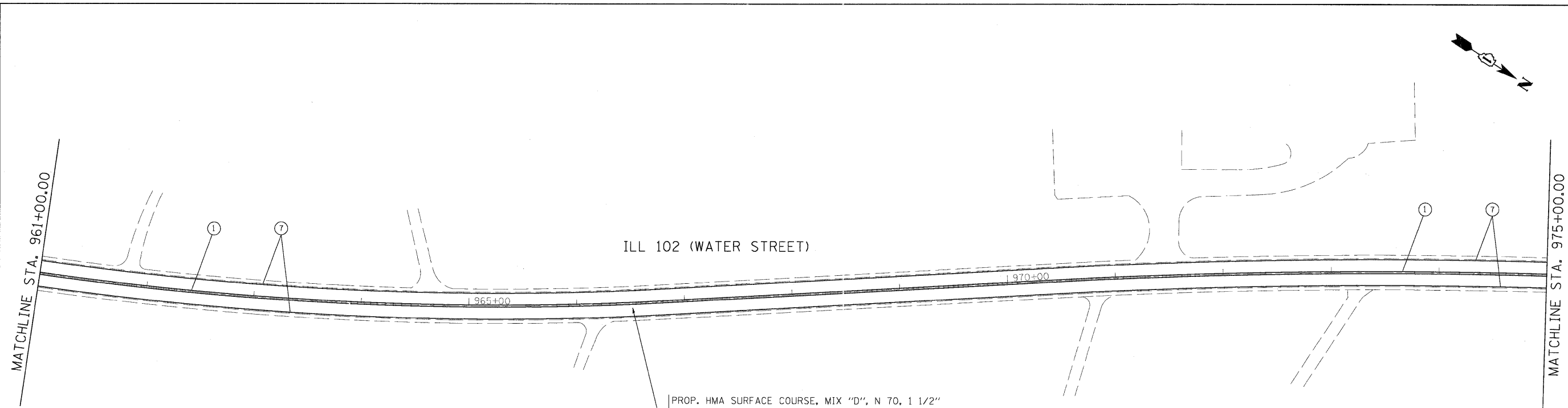
**NOTES:**

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

MILLING AND RESURFACING THROUGH INTERSECTIONS IS ASSUMED TO PROCEED ALONG EDGE OF ILL 102 PAVEMENT UNLESS BUTT JOINTS ARE SHOWN ON CROSS STREETS.



FILE NAME = ...Plans\pin60709pp&mrk9.dgn	USER NAME = moolaman	DESIGNED - MAC	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ROADWAY &amp; PAVEMENT MARKING PLANS ILL 102 (WATER STREET) - RYAN STREET TO TO OLD CHICAGO ROAD</b>			F.A.P. RTE. 631	SECTION 111 N-RS-1	COUNTY WILL	TOTAL SHEETS 30	SHEET NO. 13
	PLOT SCALE = 1" = 50'	CHECKED - JJT	REVISED -		SCALE: 1" = 50'	SHEET NO.	OF 30 SHEETS	STA. 933+00	TO STA. 961+00	CONTRACT NO. 60H37		
	PLOT DATE = 4/21/2009	DATE - 4/20/09	REVISED -		FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT							



PROP. HMA SURFACE COURSE, MIX "D", N 70, 1 1/2"  
 PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N 50, 3/4" TO 1"  
 PROP. HMA SURFACE REMOVAL, 2 1/2"

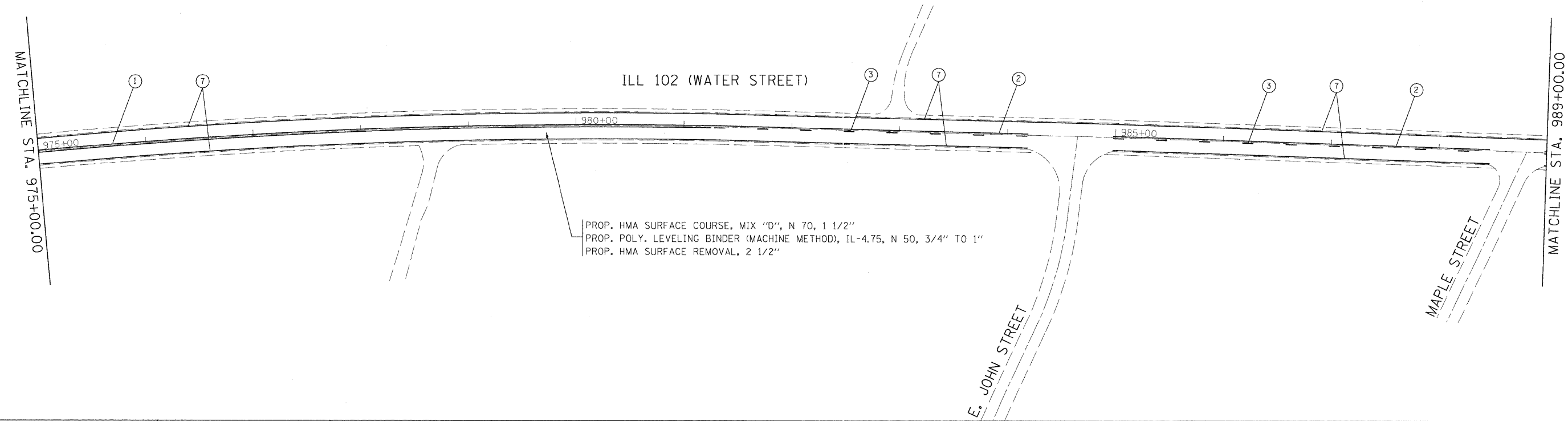
LEGEND

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

NOTES:

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

MILLING AND RESURFACING THROUGH INTERSECTIONS IS ASSUMED TO PROCEED ALONG EDGE  
 OF IL 102 PAVEMENT UNLESS BUTT JOINTS ARE SHOWN ON CROSS STREETS.



PROP. HMA SURFACE COURSE, MIX "D", N 70, 1 1/2"  
 PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N 50, 3/4" TO 1"  
 PROP. HMA SURFACE REMOVAL, 2 1/2"

FILE NAME =  
 ...Plans\pin68789pp&mrk10.dgn

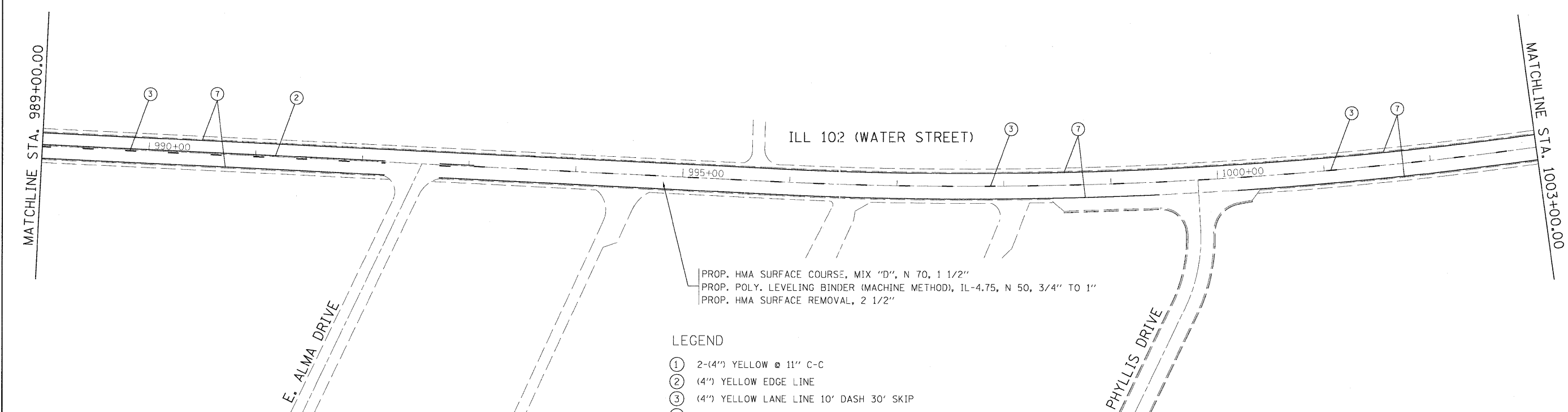
USER NAME = mooleman	DESIGNED - MAC	REVISED -
PLOT SCALE = 1" = 50'	DRAWN - IS	REVISED -
PLOT DATE = 4/21/2009	CHECKED - JJT	REVISED -
	DATE - 4/20/09	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

ROADWAY & PAVEMENT MARKING PLANS			
ILL 102 (WATER STREET) - RYAN STREET TO OLD CHICAGO ROAD			
SCALE: 1" = 50'	SHEET NO.	OF 30 SHEETS	STA. 961+00 TO STA. 989+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	111 N-RS-1	WILL	30	14
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				

CONTRACT NO. 60H37



PROP. HMA SURFACE COURSE, MIX "D", N 70, 1 1/2"  
 PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N 50, 3/4" TO 1"  
 PROP. HMA SURFACE REMOVAL, 2 1/2"

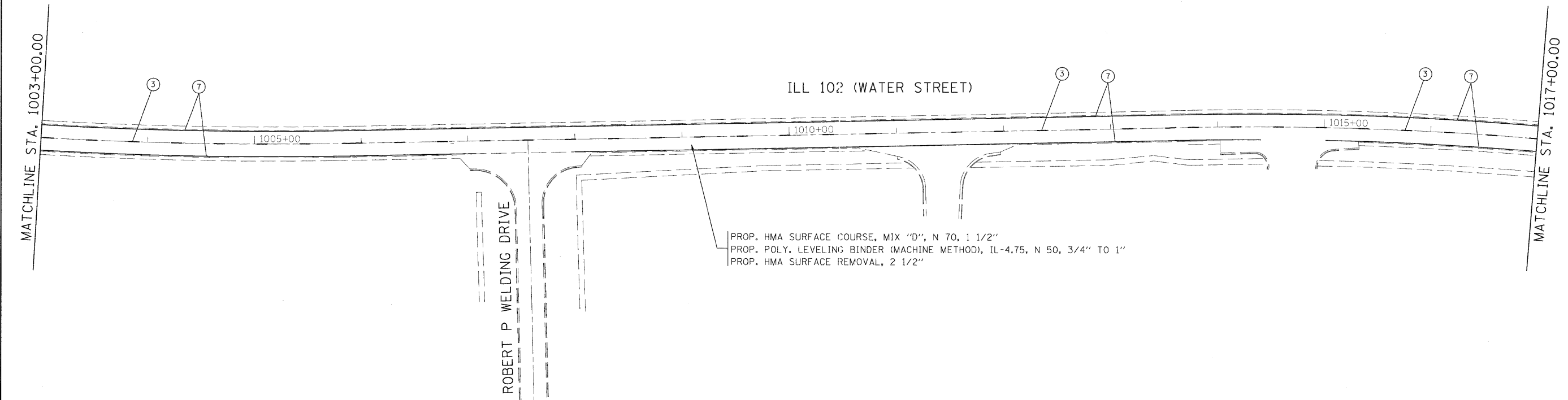
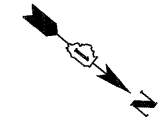
**LEGEND**

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

**NOTES:**

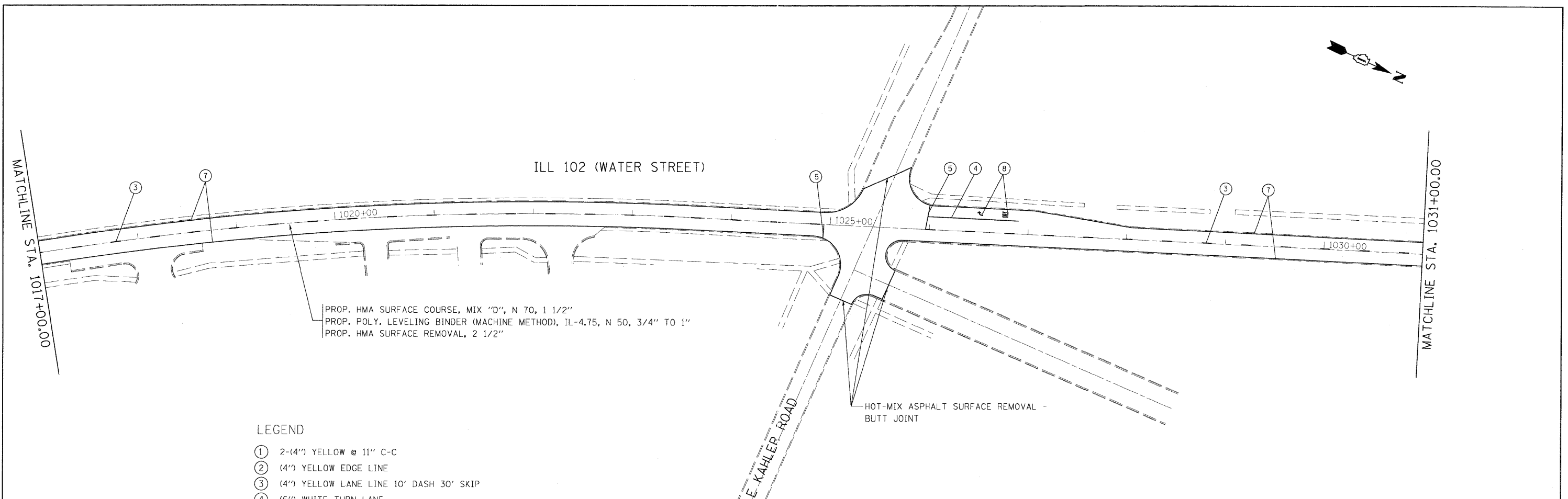
RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) DETAILS"

MILLING AND RESURFACING THROUGH INTERSECTIONS IS ASSUMED TO PROCEED ALONG EDGE OF ILL 102 PAVEMENT UNLESS BUTT JOINTS ARE SHOWN ON CROSS STREETS.



PROP. HMA SURFACE COURSE, MIX "D", N 70, 1 1/2"  
 PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N 50, 3/4" TO 1"  
 PROP. HMA SURFACE REMOVAL, 2 1/2"

FILE NAME = ...XP1ens\p1n60709pp&mrk11.dgn	USER NAME = mcolaman	DESIGNED - MAC	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ROADWAY &amp; PAVEMENT MARKING PLANS ILL 102 (WATER STREET) - RYAN STREET TO TO OLD CHICAGO ROAD</b>			F.A.P. RTE. 631	SECTION 111 N-RS-1	COUNTY WILL	TOTAL SHEETS 30	SHEET NO. 15
	PLOT SCALE = 1" = 50'	CHECKED - JJT	REVISED -		SCALE: 1" = 50'	SHEET NO.	OF 30 SHEETS	STA. 989+00	TO STA. 1017+00	CONTRACT NO. 60H37		
PLCT DATE = 4/21/2009	DATE = 4/20/09	REVISED -	REVISED -	FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT								



PROP. HMA SURFACE COURSE, MIX "D", N 70, 1 1/2"  
 PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N 50, 3/4" TO 1"  
 PROP. HMA SURFACE REMOVAL, 2 1/2"

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

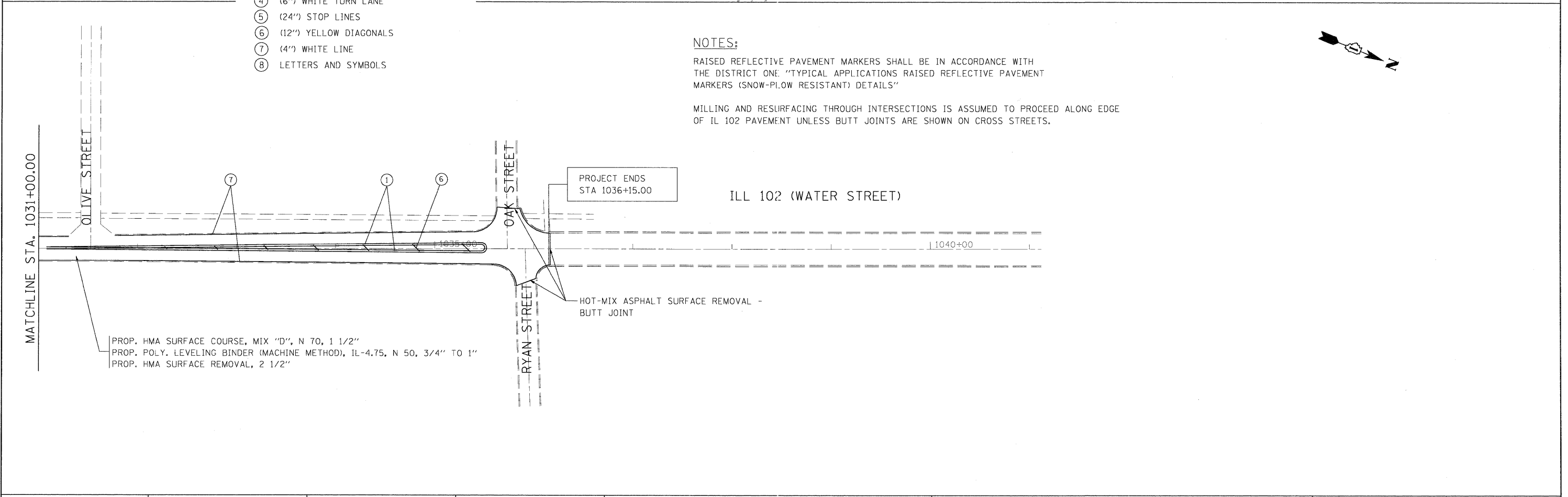
LEGEND

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

NOTES:

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

MILLING AND RESURFACING THROUGH INTERSECTIONS IS ASSUMED TO PROCEED ALONG EDGE OF IL 102 PAVEMENT UNLESS BUTT JOINTS ARE SHOWN ON CROSS STREETS.



PROP. HMA SURFACE COURSE, MIX "D", N 70, 1 1/2"  
 PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N 50, 3/4" TO 1"  
 PROP. HMA SURFACE REMOVAL, 2 1/2"

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

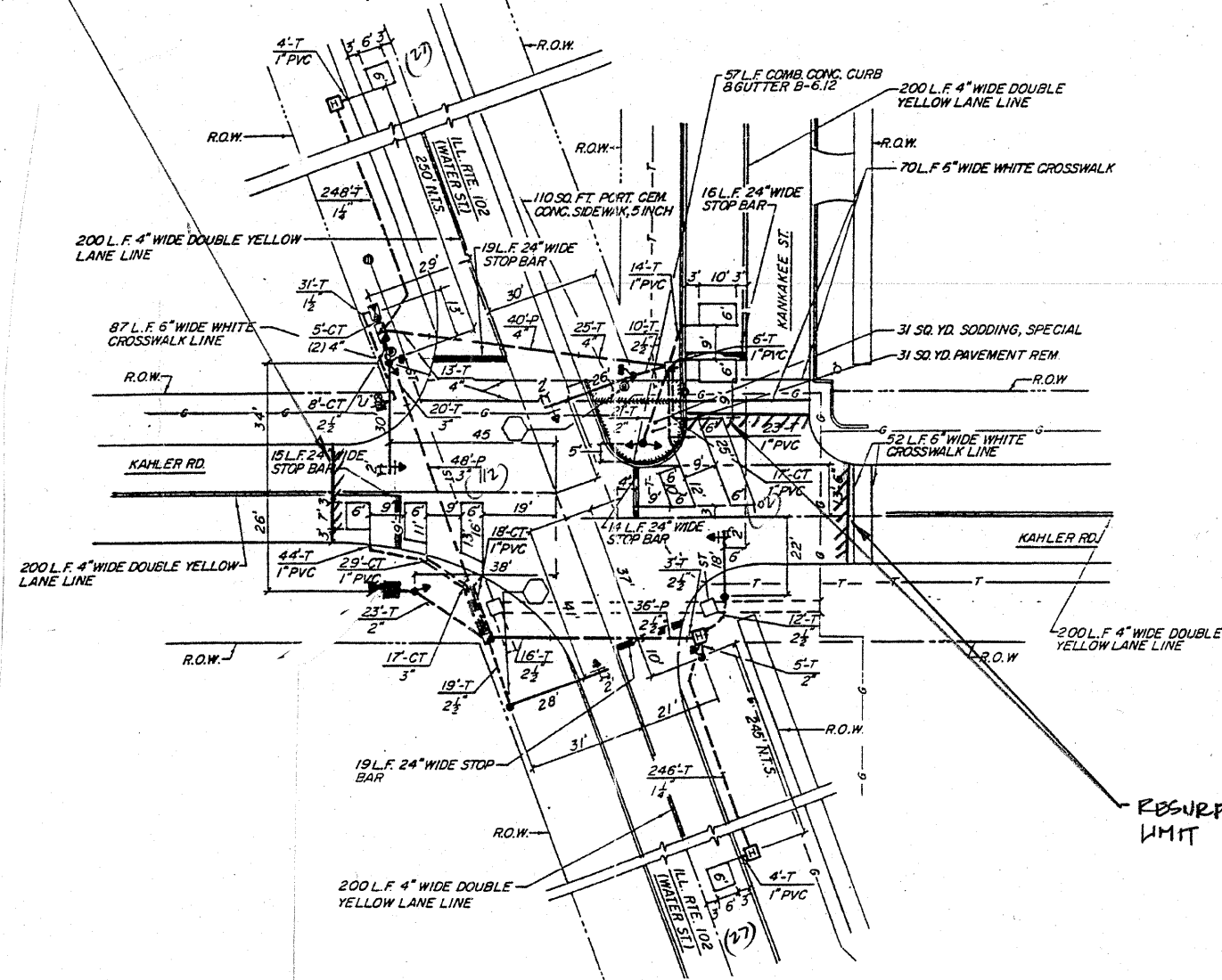
FILE NAME = ...\\Plans\p1n60789pp&m-k12.dgn	USER NAME = mcoleman	DESIGNED - MAC	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ROADWAY &amp; PAVEMENT MARKING PLANS ILL 102 (WATER STREET) - RYAN STREET TO TO OLD CHICAGO ROAD</b>			F.A.P. RTE. 631	SECTION 111 N-RS-1	COUNTY WILL	TOTAL SHEETS 30	SHEET NO. 16
PLOT SCALE = 1" = 50'	CHECKED - JJT	DATE - 4/20/09	REVISED -		SCALE: 1" = 50'	SHEET NO.	OF 30 SHEETS	STA. 1017+00	TO STA. 1041+00	CONTRACT NO. 60H37		
PLOT DATE = 4/21/2009	DATE - 4/20/09	REVISED -	REVISED -		FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT							



**TRAFFIC SIGNAL LEGEND**

	<b>PROPOSED</b>	<b>EXISTING</b>
DETECTOR LOOP	□	□
SIGNAL HEAD	—	⊖
G.S. CONDUIT IN TRENCH OR PUSHED	---	---
SIGNAL HEAD WITH BACKPLATE		⊕
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR II		⊖
VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE		⊖

RESURFACING LIMIT



RESURFACING LIMIT



THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

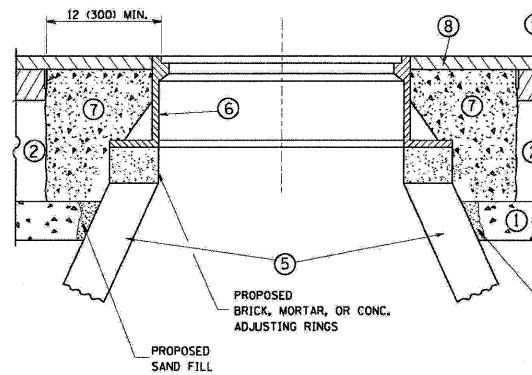
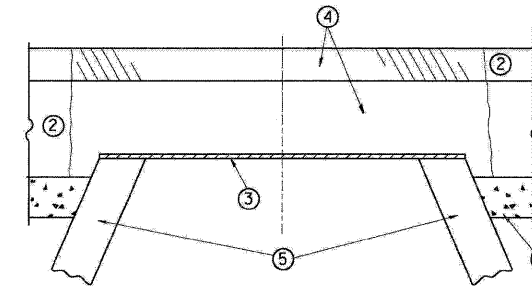
CODE	QUANTITY	UNIT	ITEM
86600600	268	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME =	USER NAME = konthaphixaybc	DESIGNED - BCK	REVISED -
c:\pwork\pwork\1001\KANTHAPHIXAYBC\d01126	\\traffic\legend.v7.dgn	DRAWN - BCK	REVISED -
PLOT SCALE = 3/4" = 1' IN.	CHECKED - DAD	REVISIONS	REVISED -
PLOT DATE = 4/3/2009	DATE		REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE - DETECTOR LOOP REPLACEMENT  
ILL. ROUTE 102 @ KAHLER ROAD

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WILL	30	16A
CONTRACT NO.				
SCALE: NONE SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**CONSTRUCTION PROCEDURES**

**STAGE 1 (BEFORE PAVEMENT MILLING)**

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

**STAGE 2 (AFTER PAVEMENT MILLING)**

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS 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

**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.

**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.

**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = W:\dstwca\22x34\bd88.dgn	USER NAME = gng1arobk	DESIGNED - R. SHAH	REVISED - R. SHAH 03-10-95
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 58.0000 / 1 IN.	CHECKED -	REVISED - R. WIEDEMAN 05-14-04
	PLOT DATE = 1/4/2000	DATE - 10-25-94	REVISED - R. BORD 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.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BD600-03 (BD-8)			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO.	

FILE NAME =  
...xp1n60709\_Dist1\_Det01.dgn

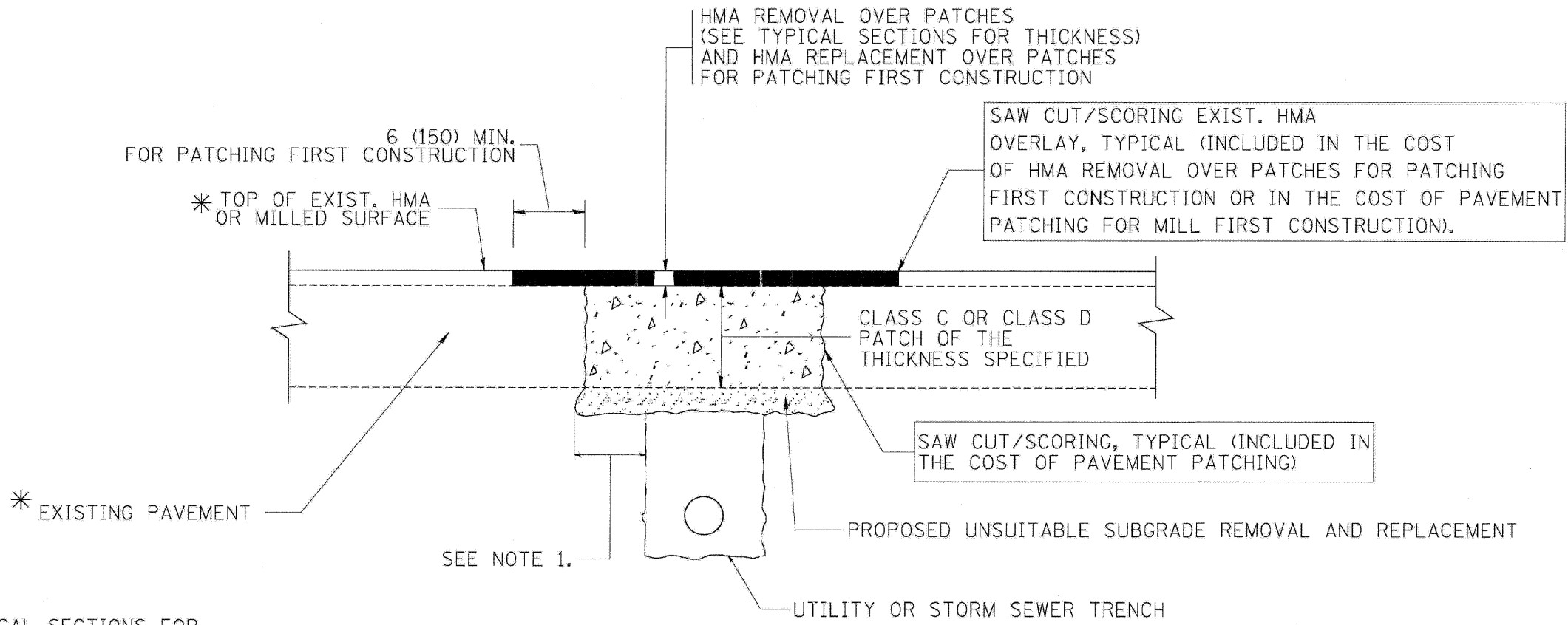
USER NAME = mcoleman	DESIGNED - MAC	REVISED -
	DRAWN - IS	REVISED -
	CHECKED - JJT	REVISED -
	DATE - 4/20/09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

SCALE: SHEET NO. OF 30 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	111 N-RS-1	WILL	30	17
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60H37	



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

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

SEQUENCE OF CONSTRUCTION (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)

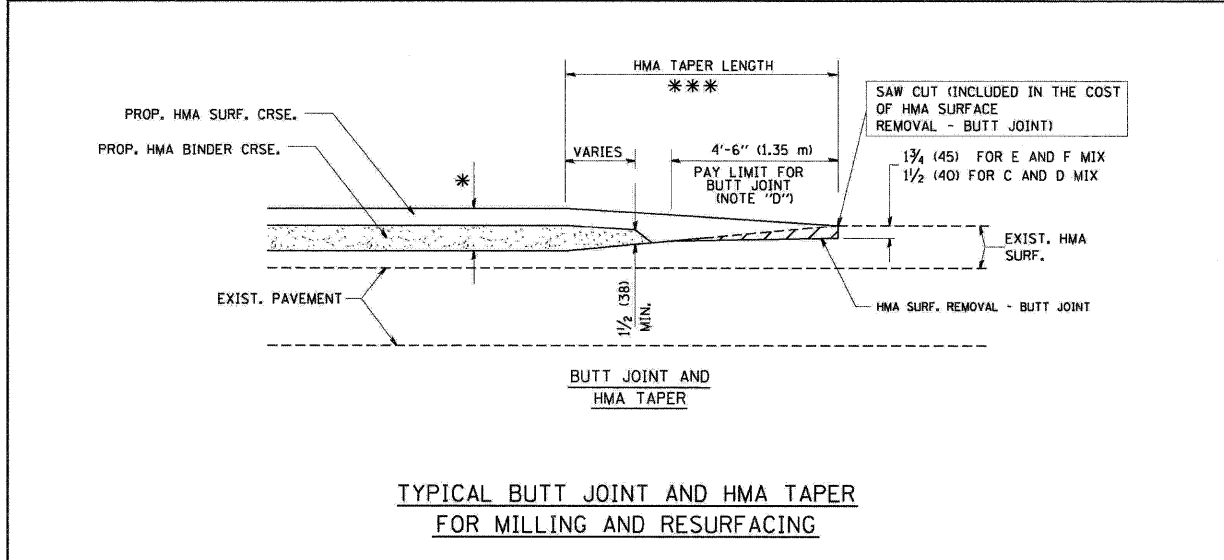
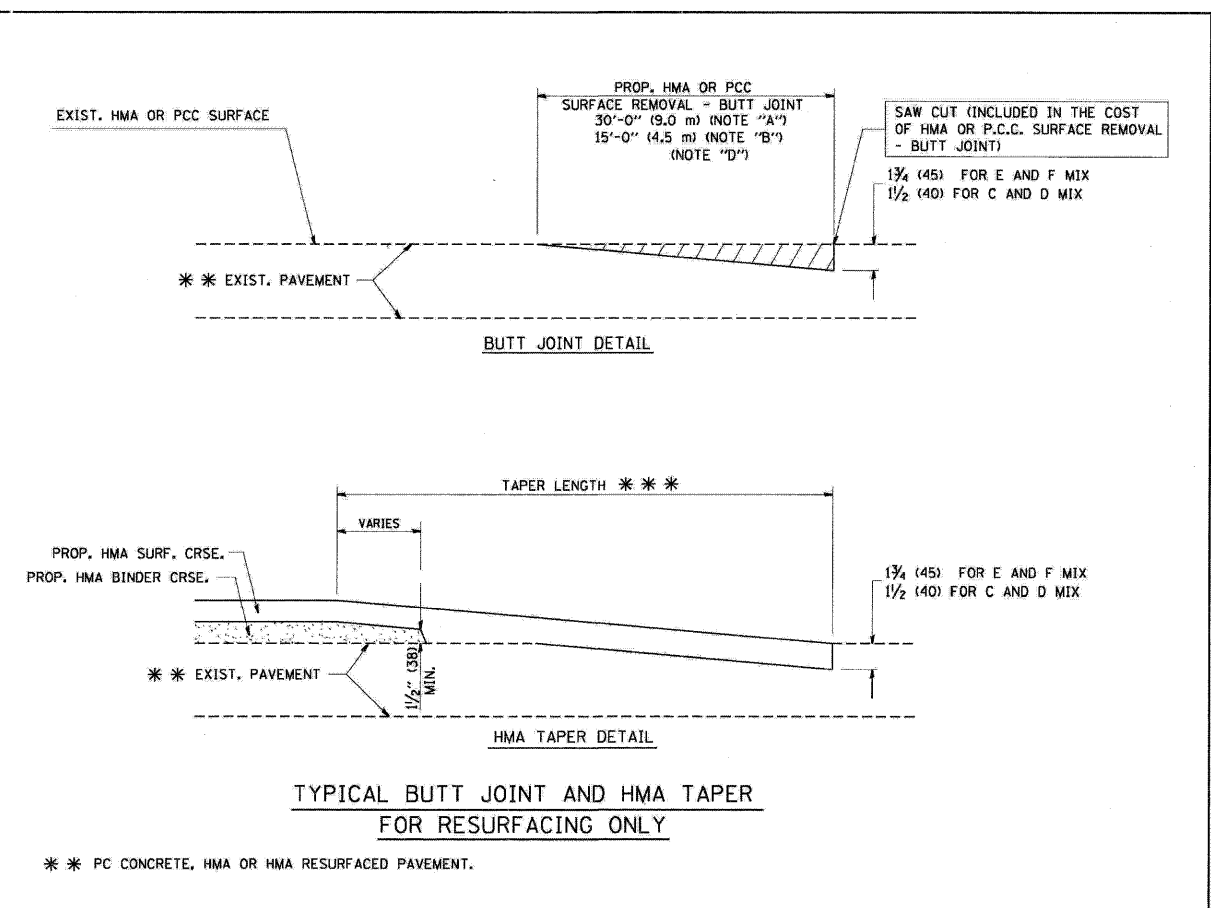
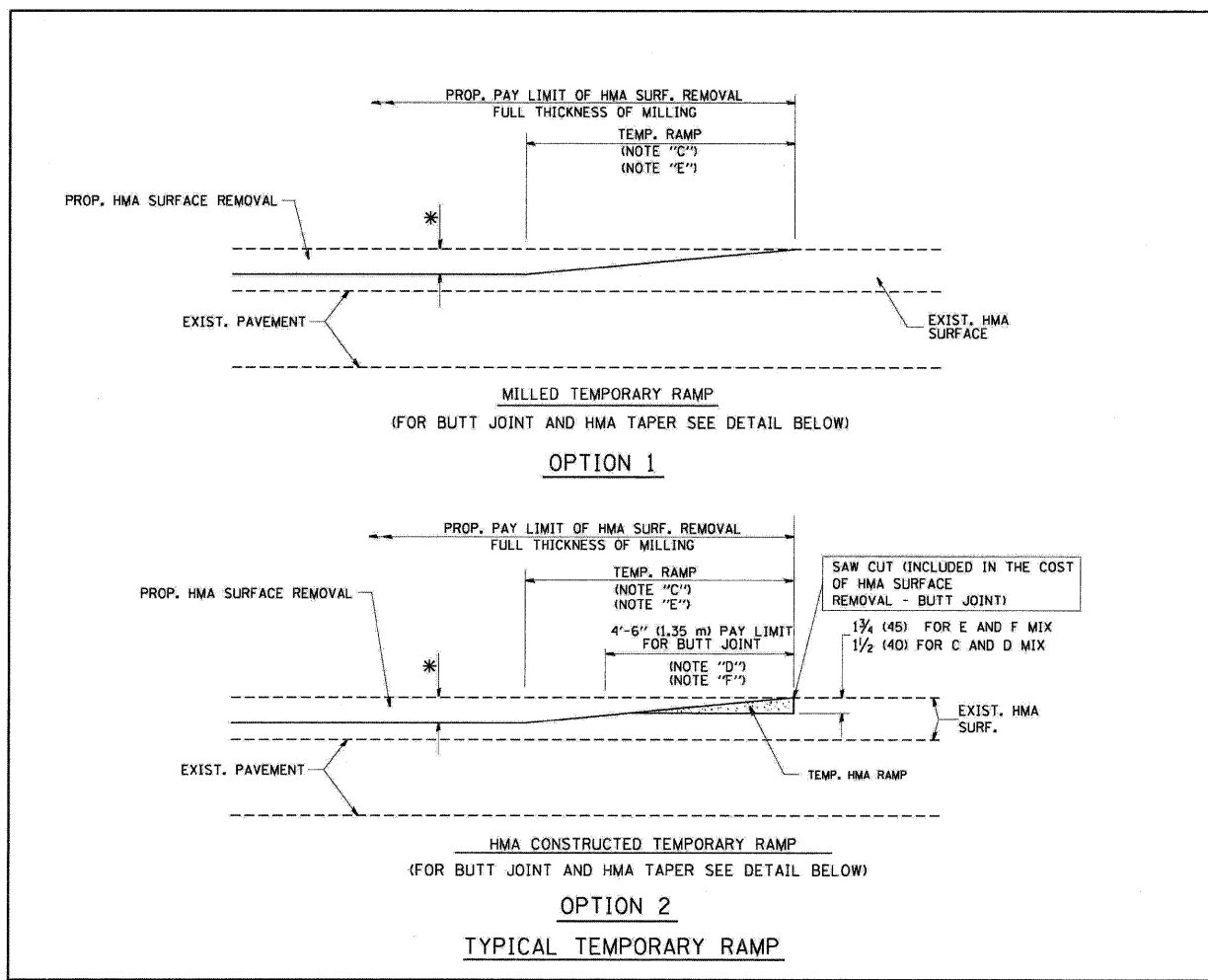
1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME = c:\projects\diststd22\34\bd22.dgn	USER NAME = baward1	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED - R. BORD 01-01-07			BD400-04 (BD-22)					
		CHECKED -	REVISED - R. BORD 09-04-07			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT
		DATE - 10-25-94	REVISED - K. ENG 10-27-08			CONTRACT NO.					

FILE NAME = ... \pln60789.Dist1.Det2.dgn	USER NAME = mcolemn	DESIGNED - MAC	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - IS	REVISED -			631	111 N-RS-1	WILL	30	18	
		CHECKED - JJT	REVISED -			SCALE:	SHEET NO. OF 30 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
		DATE - 4/20/09	REVISED -			CONTRACT NO. 60H37					





**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.

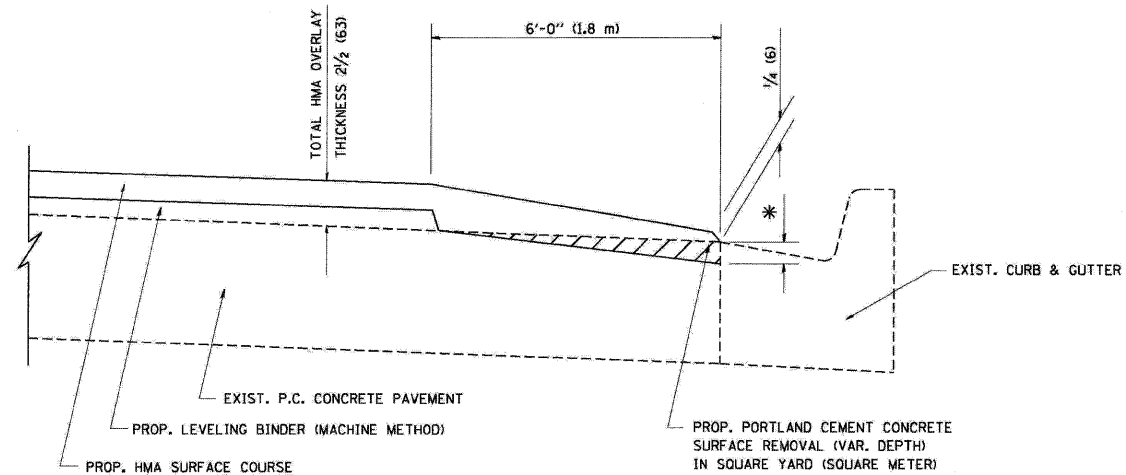
FILE NAME = W:\states\22x34\bd02.dgn	USER NAME = geglerrubt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 5/8" = 1' IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>		<b>BUTT JOINT AND HMA TAPER DETAILS</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					BD400-05 BD32			
				CONTRACT NO.				
				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FILE NAME = ... \p\ne0709_Dist1_0et04.dgn	USER NAME = moolenan	DESIGNED - MAC	REVISED -
		DRAWN - IS	REVISED -
	PLOT SCALE = N.T.S.	CHECKED - JJT	REVISED -
	PLOT DATE = 4/21/2009	DATE - 4/20/09	REVISED -

<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>		<b>BUTT JOINT AND HMA TAPER DETAILS</b>	

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	111 N-RS-1	WILL	30	20
CONTRACT NO. 60H37				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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

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

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

FILE NAME = W:\diststd\22x34\bd33.dgn	USER NAME = gng1uam04	DESIGNED - R. SHAH	REVISED - R. SHAH 10-25-94
		DRAWN - JIS	REVISED - A. ABBAS 05-05-99
	PLOT SCALE = 5/8"=1'-0" IN.	CHECKED - A. ABBAS	REVISED - E. GOMEZ 12-21-00
	PLOT DATE = 1/4/2008	DATE - 09-10-94	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BD400-06 (BD33)			
CONTRACT NO.				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

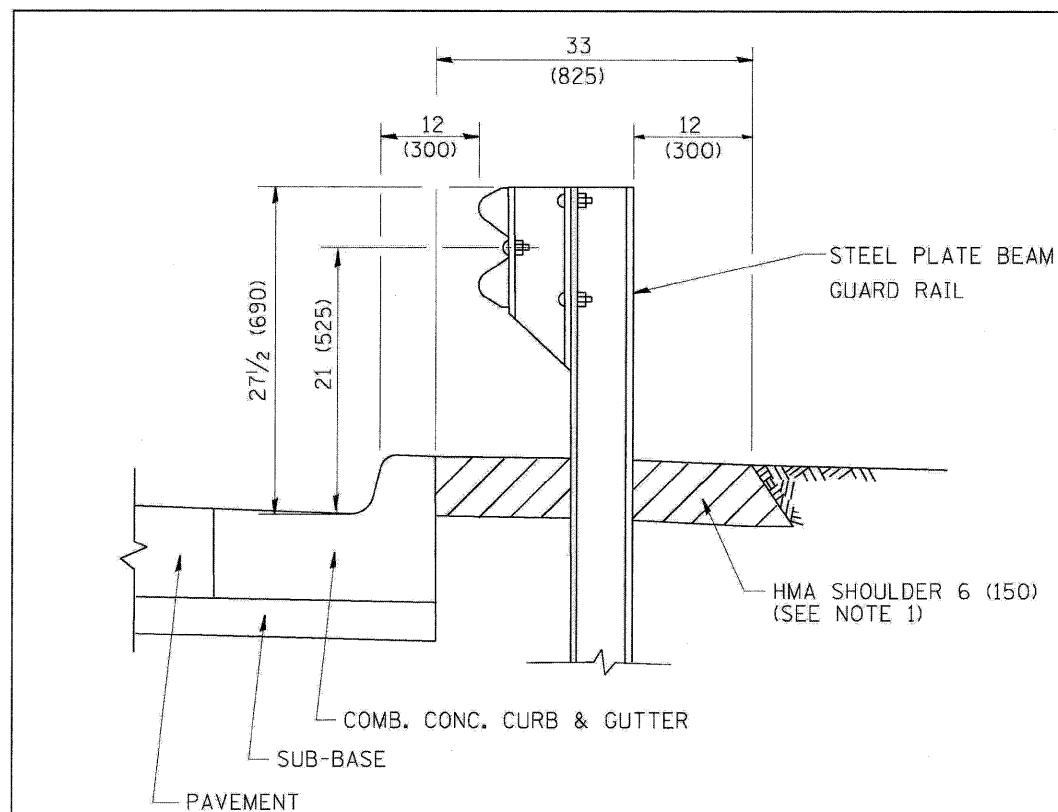
FILE NAME = ... \p1n60709_Dist1_Det05.dgn	USER NAME = mcoleman	DESIGNED - MAC	REVISED -
		DRAWN - IS	REVISED -
	PLOT SCALE = N.T.S.	CHECKED - JJT	REVISED -
	PLOT DATE = 4/21/2009	DATE - 4/20/09	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	111 N-RS-1	WILL	30	21
CONTRACT NO. 60H37				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCALE: SHEET NO. 20 OF 30 SHEETS STA. TO STA.

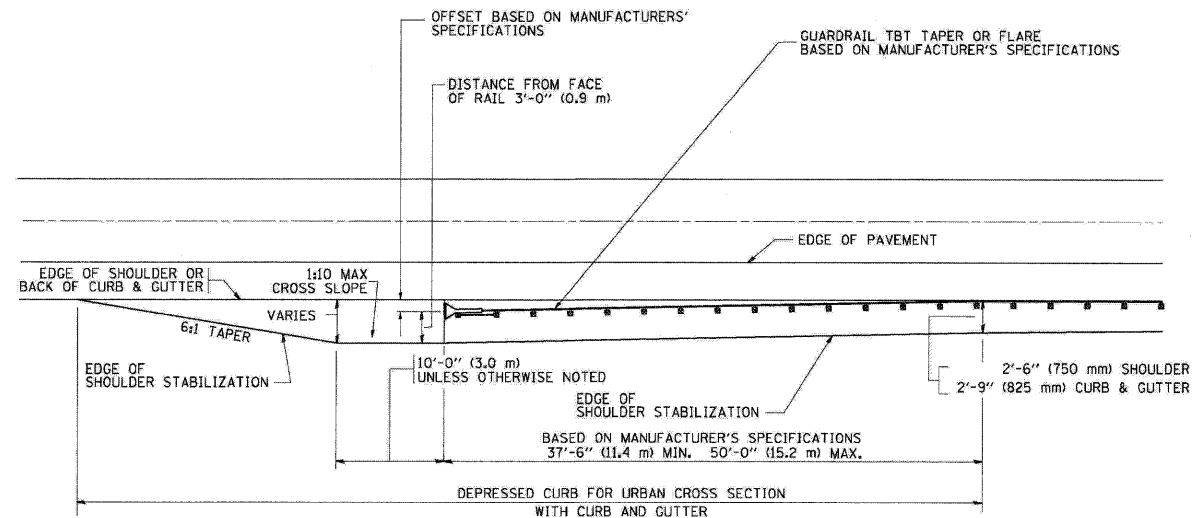


- NOTES: 1. THE HMA SHOULDER SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL
2. GUARD RAIL MAY BE PLACED AT THE BACK OF CURB WHEN DIRECTED BY THE ENGINEER.

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

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

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



**STABILIZATION AT TBT TY. 1 SPL.**

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

FILE NAME = C:\Projects\22234\Original\bd34.dgn	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 02-23-95
		DRAWN -	REVISED - A. ABBAS 03-21-97
		PLOT SCALE = 5/8" @ 1" = 1/4" IN.	CHECKED -
		PLOT DATE = 12/17/2008	DATE - 09-22-90
			REVISED - E. GOMEZ 08-28-00
			REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT  
TO CURB AND GUTTER STABILIZATION AT TBT TY 1 SPL.**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BD600-10 (BD 34)			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FILE NAME =  
...p\in60709.D.stl.Det106.dgn

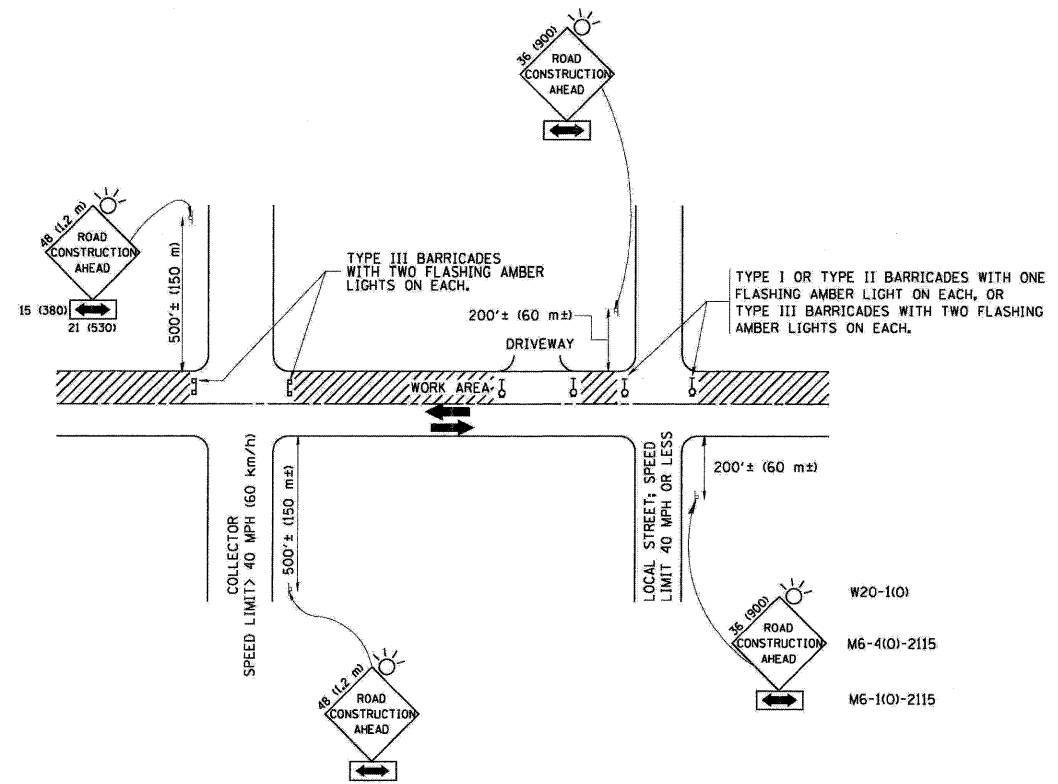
USER NAME = mooleman	DESIGNED - MAC	REVISED -
	DRAWN - IS	REVISED -
	CHECKED - JJT	REVISED -
	DATE - 4/20/09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT  
TO CURB AND GUTTER STABILIZATION AT TBT TY 1 SPL.**

SCALE: SHEET NO. OF 30 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	111 N-RS-1	WILL	30	22
CONTRACT NO. 60H37			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS:
  - 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:\data\22x34\10118.dgn	USER NAME = geglomab	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 66.6667" / 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

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

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

FILE NAME = ...:\p1r60789_Dist1_Det07.dgn	USER NAME = mcoleman	DESIGNED - MAC	REVISED -
		DRAWN - IS	REVISED -
	PLOT SCALE = N.T.S.	CHECKED - JJT	REVISED -
	PLOT DATE = 4/21/2009	DATE - 4/20/09	REVISED -

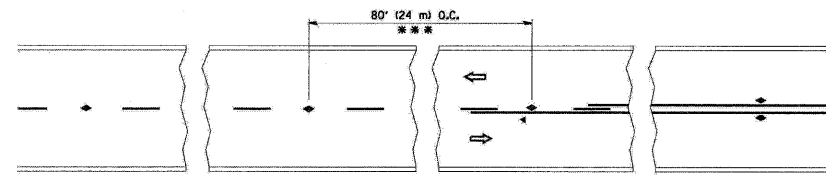
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

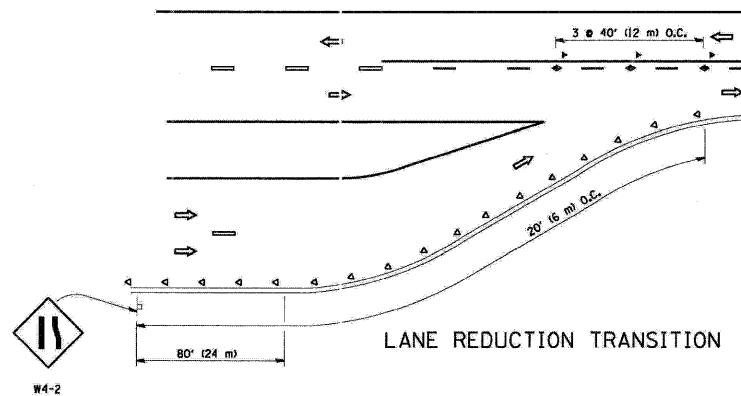
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	111 N-RS-1	WILL	30	23
CONTRACT NO. 60H37			ILLINOIS FED. AID PROJECT	

SCALE: SHEET NO. OF 30 SHEETS STA. TO STA.

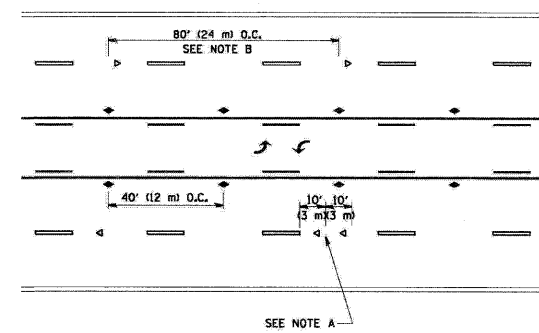




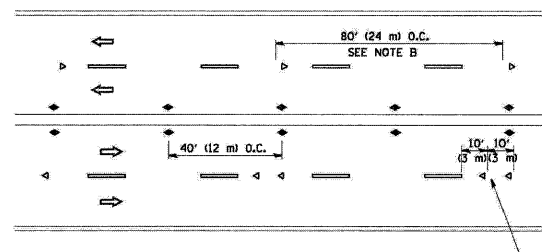
TWO-LANE/TWO-WAY



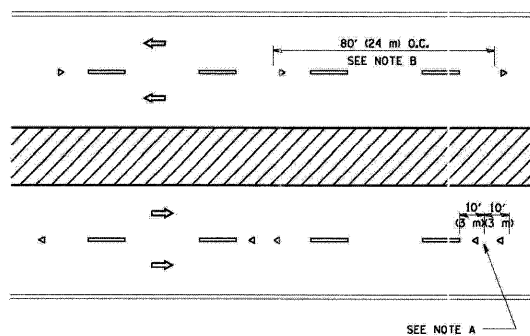
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

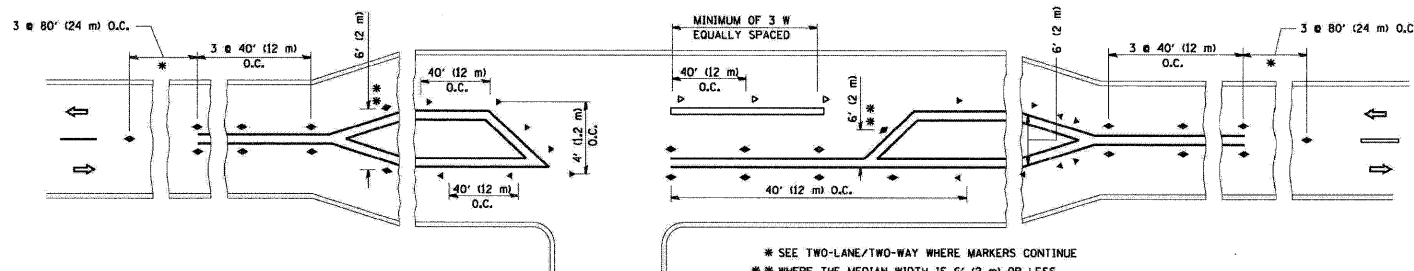
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ▶ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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



LEFT TURN

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

FILE NAME = M:\data\22x34\to11.dgn	USER NAME = gajhanob1	DESIGNED - DRAWN -	REVISED - T. RAMMACHER 09-19-94
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 03-12-99
	PLOT DATE = 1/4/2009	DATE -	REVISED - T. RAMMACHER 01-06-00

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.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	111 N-RS-1	WILL	30	24
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO.	

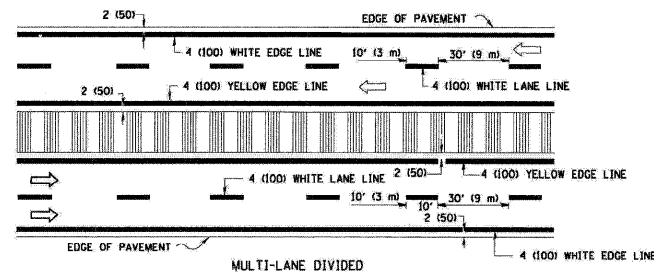
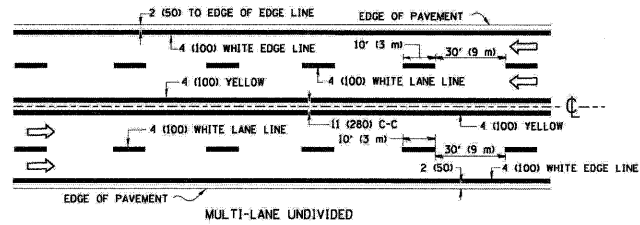
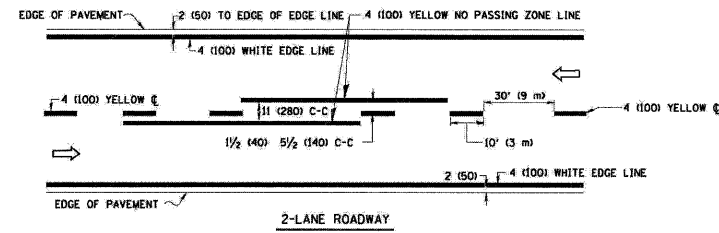
FILE NAME =  
...p1n60789\_Dist1\_De08.dgn

USER NAME = mcolemn	DESIGNED - MAC	REVISED -
PLOT SCALE = N.T.S.	DRAWN - IS	REVISED -
PLOT DATE = 4/21/2009	CHECKED - JJT	REVISED -
	DATE - 4/20/09	REVISED -

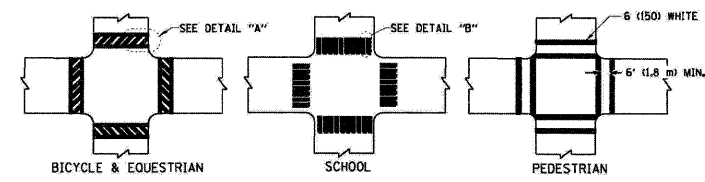
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE:	SHEET NO. OF 30 SHEETS	STA. TO STA.	

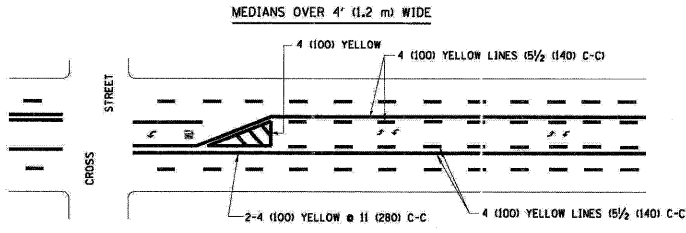
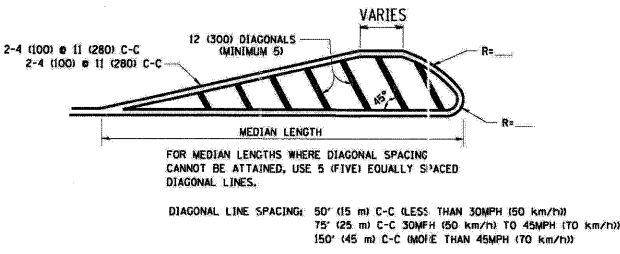
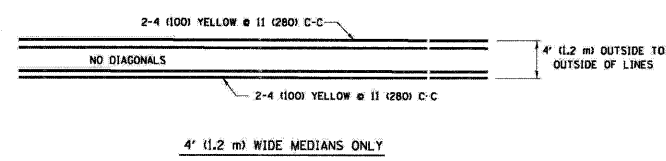
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
631	111 N-RS-1	WILL	30	24
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60H37	



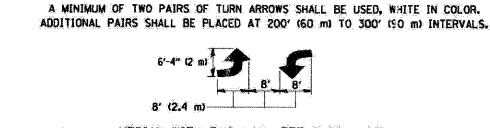
TYPICAL LANE AND EDGE LINE MARKING



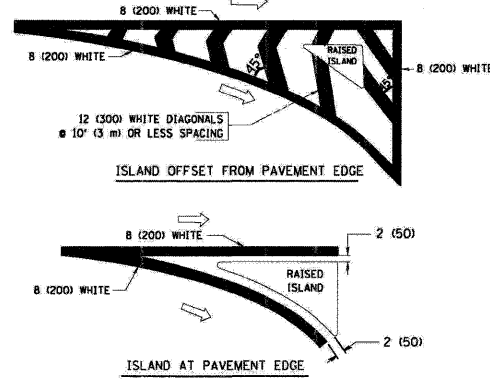
TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING



TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW. EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE, FULL SIZE LETTERS & SYMBOLS 18" (457mm)	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN A. DIAGONALS (BIKE & EQUESTRIAN B. LONGITUDINAL BARS (SCHOOL))	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW TWO WAY TRAFFIC WHITE ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES "RR" 15' (4.5 m) LETTERS 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (22.5 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.

FILE NAME = W:\data\2009\22x34\td13.dgn	USER NAME = gggjansot	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
		DRAWN -	REVISED - A. HOUSEH 10-09-96
	PLOT SCALE = 1/4" = 1'-0"	CHECKED -	REVISED - A. HOUSEH 10-17-96
	PLOT DATE = 1/4/2008	DATE - 03-19-90	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS

SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				TC-13			
							CONTRACT NO.
							FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

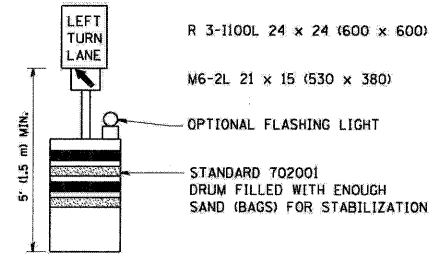
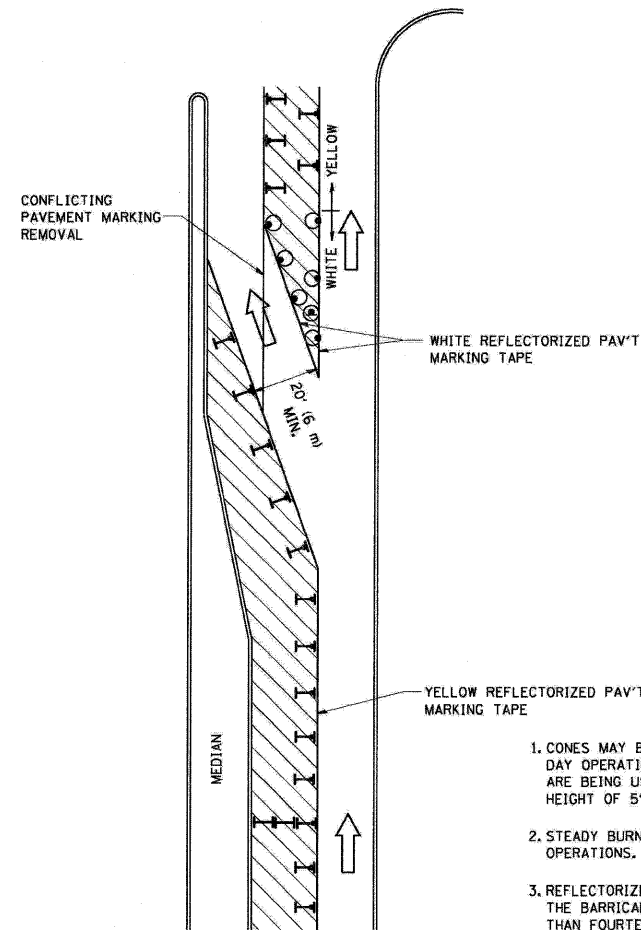
FILE NAME = ...:\pin60789.Dist1\_De109.dgn

USER NAME = mcolemn	DESIGNED - MAC	REVISED -
	DRAWN - IS	REVISED -
	CHECKED - JJT	REVISED -
	DATE - 4/20/09	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS

SCALE:	SHEET NO. OF 30 SHEETS	STA. TO STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				631	111 N-RS-1	30	25
							CONTRACT NO. 60H37
							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



**GENERAL NOTES**

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

**LEGEND**

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

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

FILE NAME = M:\data\22x34\14.dgn	USER NAME = ggliemobt	DESIGNED - -	REVISED - T. RAMMACHER 09-08-94
		DRAWN - -	REVISED - A. HOUSEH 11-07-95
		CHECKED - -	REVISED - A. HOUSEH 10-12-96
		DATE - 1/4/2009	REVISED - T. RAMMACHER 01-06-00

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

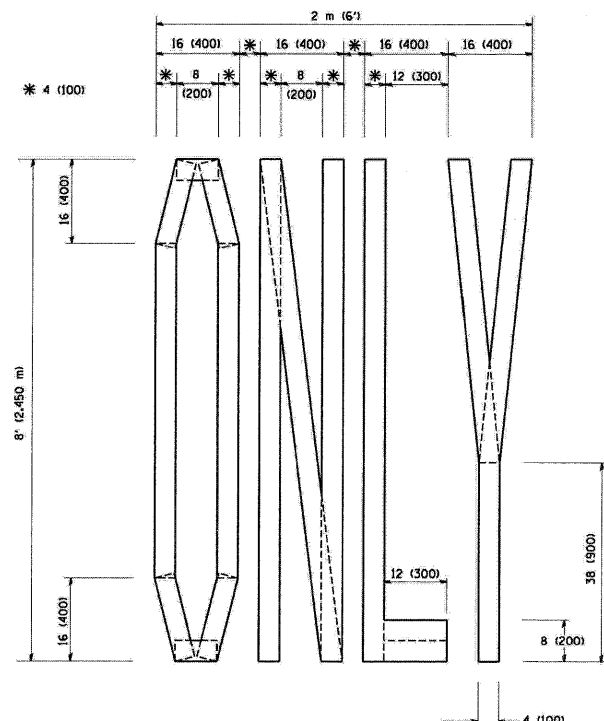
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			TC-14		CONTRACT NO.		
			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FILE NAME = ...p1n60789.Dist1_Det10.dgn	USER NAME = mcclemon	DESIGNED - MAC	REVISED - -
		DRAWN - IS	REVISED - -
		CHECKED - JJT	REVISED - -
		DATE - 4/20/09	REVISED - -

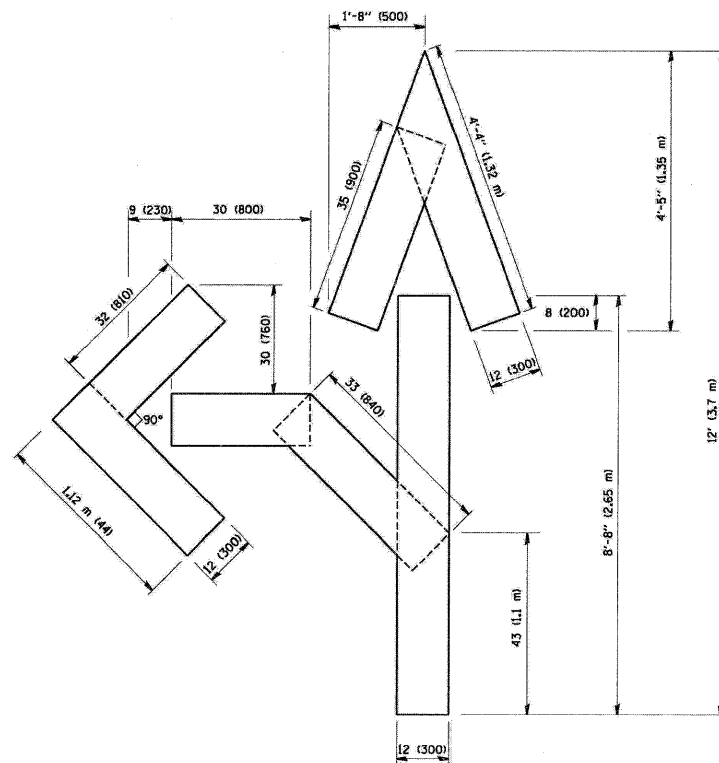
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION OF TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)**

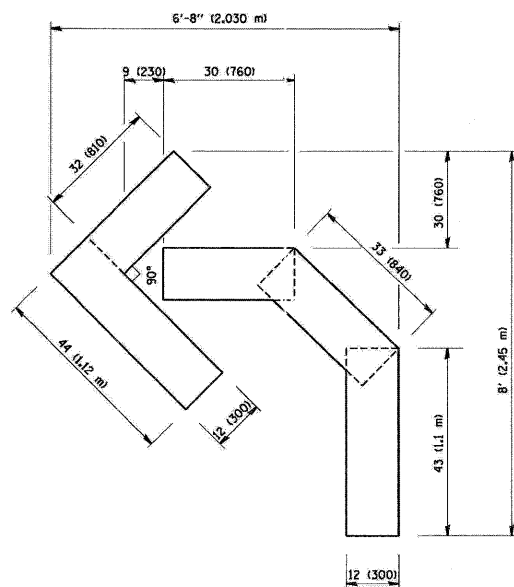
SCALE:	SHEET NO. OF 30 SHEETS	STA. TO STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			631	111 N-RS-1	WILL	30	26
			CONTRACT NO. 60H37				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



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



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



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

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

FILE NAME = W:\detest\h22\34\to16.dgn	USER NAME = gaglionobit	DESIGNED - DRAWN - CHECKED - DATE -	REVISOR - REVISOR - REVISOR - REVISOR -
		09-18-94	-T. RAMMACHER 06-05-96 -T. RAMMACHER 11-04-97 -T. RAMMACHER 03-02-98 -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.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
							TC-16			
						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FILE NAME =  
...\\pin\60709\_Dist1\_Det11.dgn

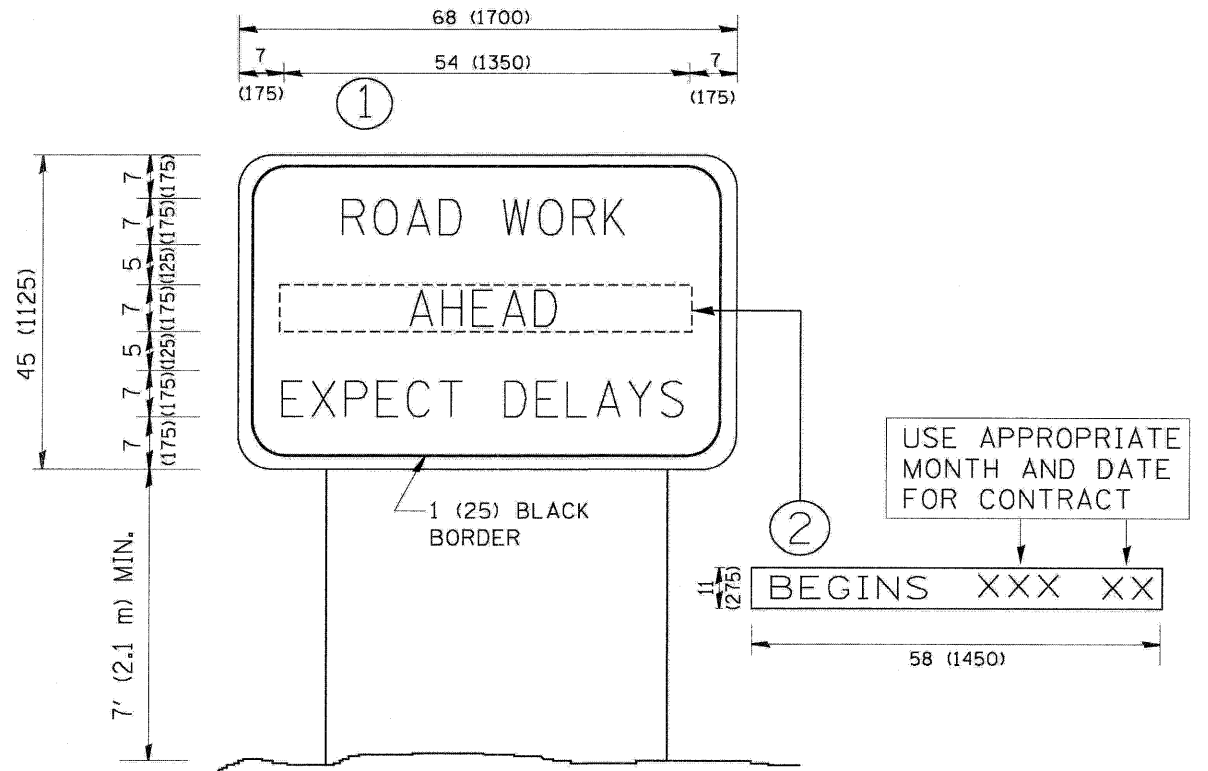
USER NAME = mcoleman	DESIGNED - DRAWN - CHECKED - DATE -	REVISOR - REVISOR - REVISOR - REVISOR -
	4/20/09	- MAC - IS - JJT -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS  
 FOR TRAFFIC STAGING

SCALE:	SHEET NO.	OF 30	SHEETS	STA.	TO STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						631	111 N-RS-1	WILL	30	27
						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

CONTRACT NO. 60H37



**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 = W:\diststd\22x34\to22.dgn	USER NAME = ggglenob	DESIGNED - DRAWN -	REVISOR - REVISOR -
		DESIGNED - DRAWN -	REVISOR - REVISOR -
		CHECKED - DATE -	REVISOR - REVISOR -
			REVISOR - REVISOR -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				TC-22			
							CONTRACT NO.
							FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

FILE NAME =  
...:\pin60789.Dist1.Dest12.dgn

USER NAME = mcoleman	DESIGNED - DRAWN -
	DESIGNED - DRAWN -
	CHECKED - DATE -

DESIGNED - DRAWN -	REVISOR - REVISOR -
	DESIGNED - DRAWN -
	CHECKED - DATE -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

SCALE:	SHEET NO. OF 30 SHEETS	STA. TO STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			631	111 N-RS-1	WILL	30	28
							CONTRACT NO. 60H37
							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



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

**NOTES:**

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

FILE NAME = W:\diststd\22x34\to26.dgn	USER NAME = ggliamobt	DESIGNED - -	REVISOR - C. JUCIUS 02-15-07
		DRAWN - -	REVISOR - -
		CHECKED - JJT	REVISOR - -
		DATE - 1/4/2009	REVISOR - -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY ENTRANCE SIGNING**

SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			TC-26		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

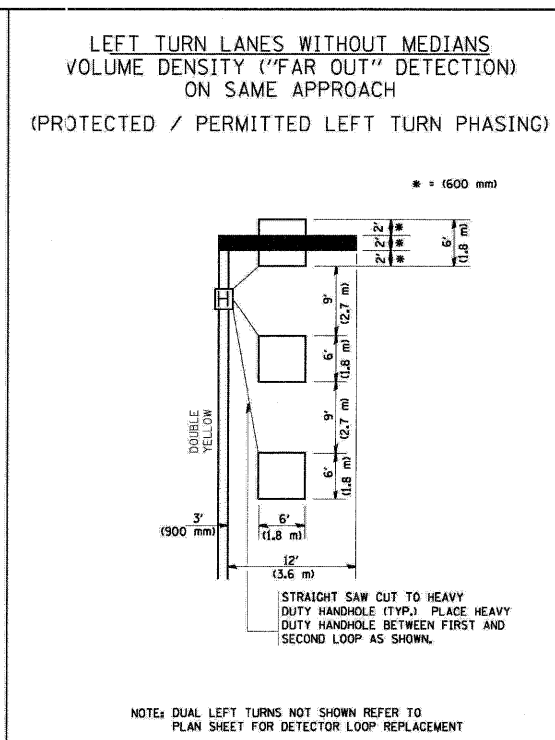
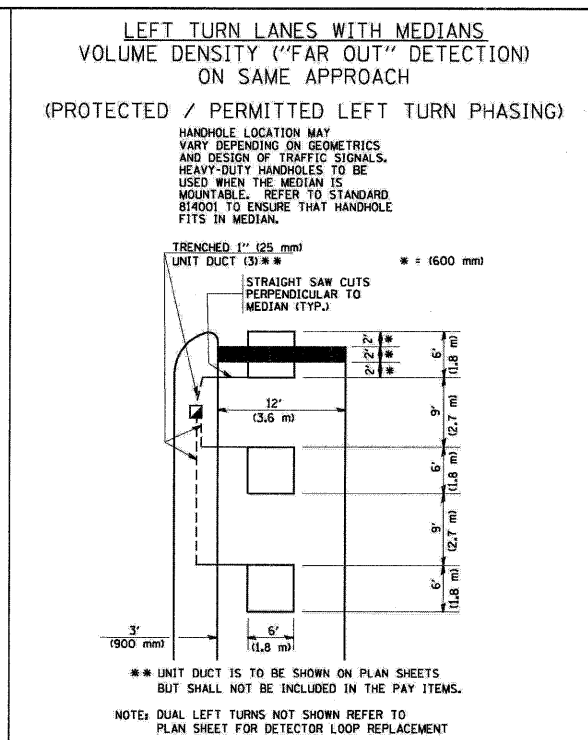
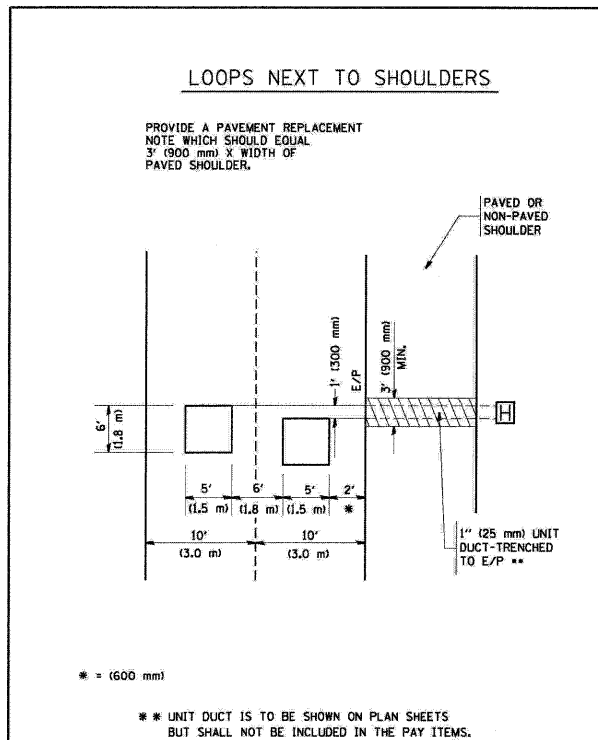
FILE NAME = ...p\60709.Dist1.Det13.dgn
---

USER NAME = mcoleman	DESIGNED - MAC	REVISOR - -
	DRAWN - IS	REVISOR - -
	CHECKED - JJT	REVISOR - -
	DATE - 4/20/09	REVISOR - -

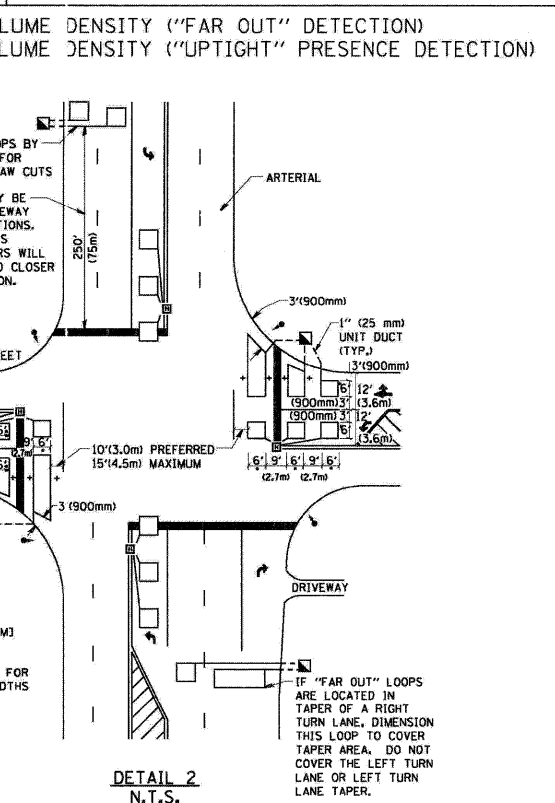
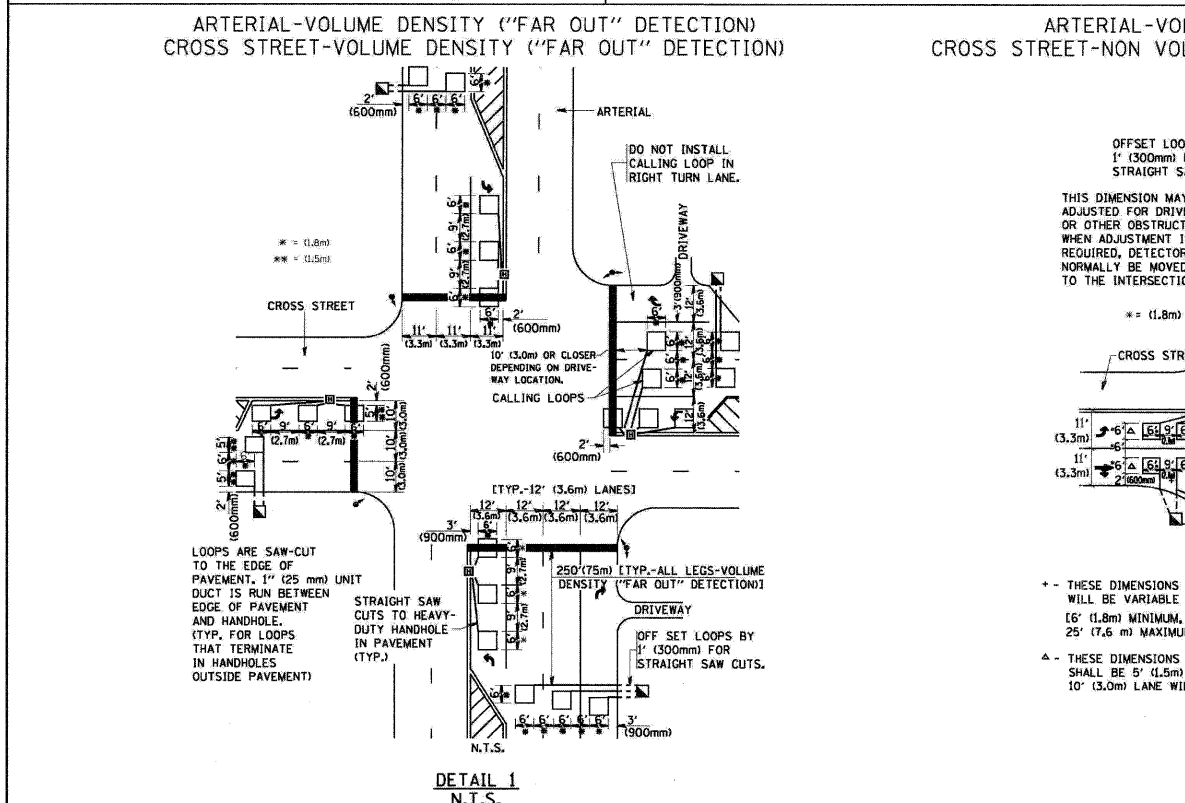
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY ENTRANCE SIGNING**

SCALE:	SHEET NO. OF 30 SHEETS	STA. TO STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			631	111 N-RS-1	WILL	30	29
			CONTRACT NO. 60H37				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



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



- #### PLACEMENT OF DETECTORS
- THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.
- LOCATIONS AND DIMENSIONS 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.

FILE NAME = W:\dist1\22x34\tsd7.dgn	USER NAME = gajlanabst	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED - R.K.F.	REVISED -
		DATE -	REVISED -
PLOT SCALE = 50.0000' / 1"			
PLOT DATE = 1/4/2008			

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE								
SHEET NO. 1 OF 1 SHEETS				STA.	TO STA.	CONTRACT NO.		
FED. ROAD DIST. NO. 1				ILLINOIS FED. AID PROJECT				

FILE NAME = ...p\in60789.D\st1.Det14.dgn	USER NAME = mqaeman	DESIGNED - MAC	REVISED -
		DRAWN - IS	REVISED -
		CHECKED - JJT	REVISED -
		DATE - 4/20/09	REVISED -
PLOT SCALE = N.T.S.			
PLOT DATE = 4/21/2009			

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE								
SHEET NO. OF 30 SHEETS				STA.	TO STA.	CONTRACT NO. 60H37		
FED. ROAD DIST. NO.				ILLINOIS FED. AID PROJECT				