

04-27-12 LETTING ITEM 128

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

FAP ROUTE 330 (US 45/52)
JOHN CASEY ROAD
VILLAGE OF BOURBONNAIS
SIGNAL MODERNIZATION
SECTION 11-00068-00-SP
PROJECT HSIP-5034(025)
KANKAKEE COUNTY
C-93-042-12

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	11-00068-00SP	KANKAKEE	16	1
		ILLINOIS	CONTRACT NO. 87514	

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES AND LIST OF STANDARDS
- 3 SUMMARY OF QUANTITIES
- 4 TYPICAL SECTIONS
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- 7 EXISTING TRAFFIC SIGNAL PLAN
- 8 SIGNAL GENERAL NOTES AND QUANTITIES
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- 10 TRAFFIC SIGNAL PLAN
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- 15 PAVEMENT MARKING SHEET
- 16 PAVEMENT MARKING DETAILS

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2



HIGHWAY CLASSIFICATION:
OTHER PRINCIPLE ARTERIAL

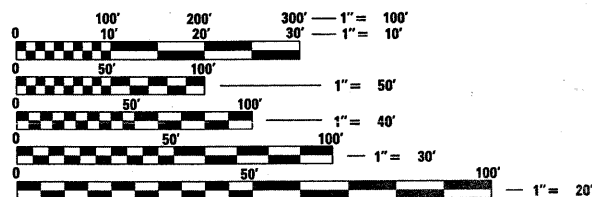
ADT 2010: 22800
MU: 474 SU: 1751 PV: 20575
DESIGN SPEED: 35 MPH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 2/24 20 12
Paul Schore
MAYOR, VILLAGE OF BOURBONNAIS

PASSED 2/24 20 12
J. J. [Signature]
DISTRICT 3 IMPLEMENTATION ENGINEER

RELEASED FOR EID BASED ON LIMITED REVIEW 2/24 20 12
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER

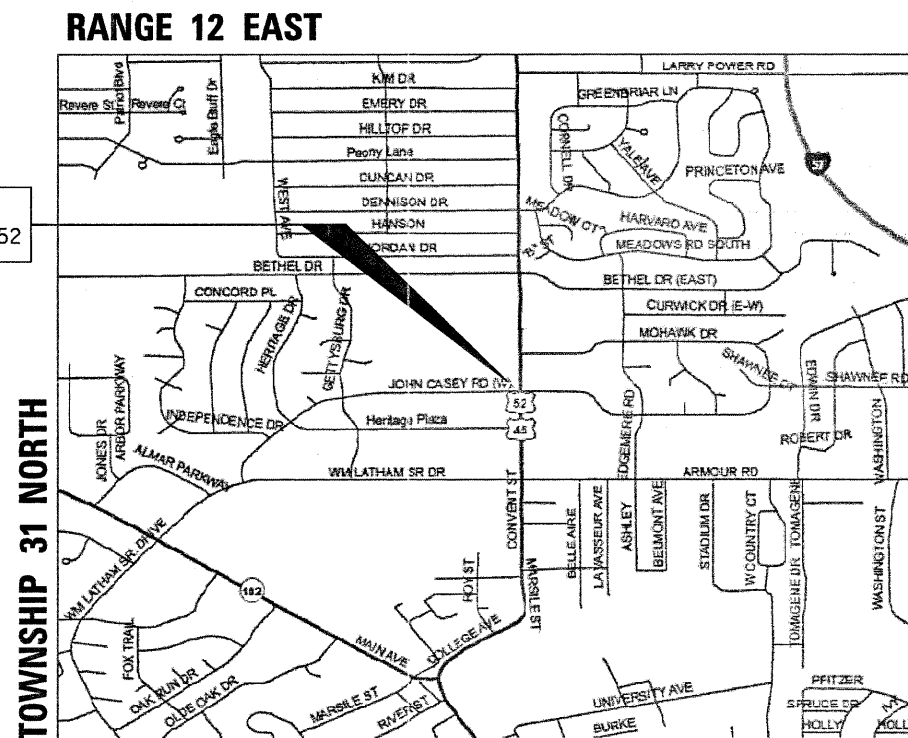


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: ROGER BLAKELY
UNIT CHIEF: SCOTT FERGUSON

GROSS LENGTH = 675 FT. = 0.13 MILE
NET LENGTH = 675 FT. = 0.13 MILE



STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 424001-06 PERPENDICULAR CURB RAMPS
- 424006 DIAGONAL CURB RAMPS
- 424011 CORNER PARALLEL CURB RAMPS
- 424021 DEPRESSED CORNER
- 606001-04 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 701306-05 LANE CLOSURE 2L, 2W SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH
- 701311-05 LANE CLOSURE 2L, 2W MOVING OPERATION DAY ONLY
- 701701-08 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-05 LN CLOSURE MULTI LN 1W, 2W & CROSSWALK OR SW CLOSURE
- 701901-02 TRAFFIC CONTROL DEVICES
- 720016-03 MAST ARM MOUNTED STREET NAME SIGNS
- 780001-03 TYPICAL PAVEMENT MARKINGS
- 805001-01 ELECTRICAL SERVICE INSTALLATION DETAILS
- 814001-02 HANDHOLES
- 814006-02 DOUBLE HANDHOLES
- 825021-02 LIGHTING CONTROLLER, BASE MOUNTED 240V
- 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
- 862001-01 UNINTERRUPTABLE POWER SUPPLY (UPS)
- 873001-02 TRAFFIC SIGNAL GROUNDING & BONDING
- 876001-02 PEDESTRIAN PUSH BUTTON POST
- 877001-05 STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
- 878001-09 CONCRETE FOUNDATION DETAILS
- 880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
- 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS
- 886001-01 DETECTOR LOOP INSTALLATIONS

GENERAL NOTES

1. THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.
2. THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE HMA SURFACE.
3. EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
4. THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.
5. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.
6. ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.
7. THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES (100 MILLIMETERS) IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF SODDING.
8. FOR NEW CONSTRUCTION, PLACE CURB RAMPS FOR SIDEWALKS AT ALL LOCATIONS WHERE PROPOSED SIDEWALK ABUTS CURB AT STREET ENTRANCES
9. ON EXISTING PAVEMENT WHICH MAY BE SUPER ELEVATED, THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPER ELEVATION UNLESS NEW SUPER ELEVATION RATES ARE GIVEN ON THE PLANS.
10. ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.
11. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

12. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB NUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.
13. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

AGGREGATE (PRIME COAT)	0.002	TONS / SQ YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
BITUMINOUS MATERIALS (PRIME COAT) RATES		
SURFACE TYPE	ESTIMATED TRUCK APPLICATION RATE	RESIDUAL RATE
"FOG COAT" (BETWEEN ADDITIONAL HMA LIFTS)	0.05 GAL / SQ YD	0.025 GAL / SQ YD

ESTIMATED TRUCK APPLICATION RATE USED FOR CALCULATING PLAN QUANTITIES

14. ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE SHALL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.
15. THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE SEWER ITEMS.
16. MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

NICOR GAS
COMED, AN EXELON COMPANY
COMCAST CABLE
AT&T
VILLAGE OF BOURBONNAIS
17. NON-MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE: NONE
18. THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCED NOTICE IS REQUIRED FOR NON-EMERGENCY WORK THE JULIE NUMBER IS 800-892-0123.
20. ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS.

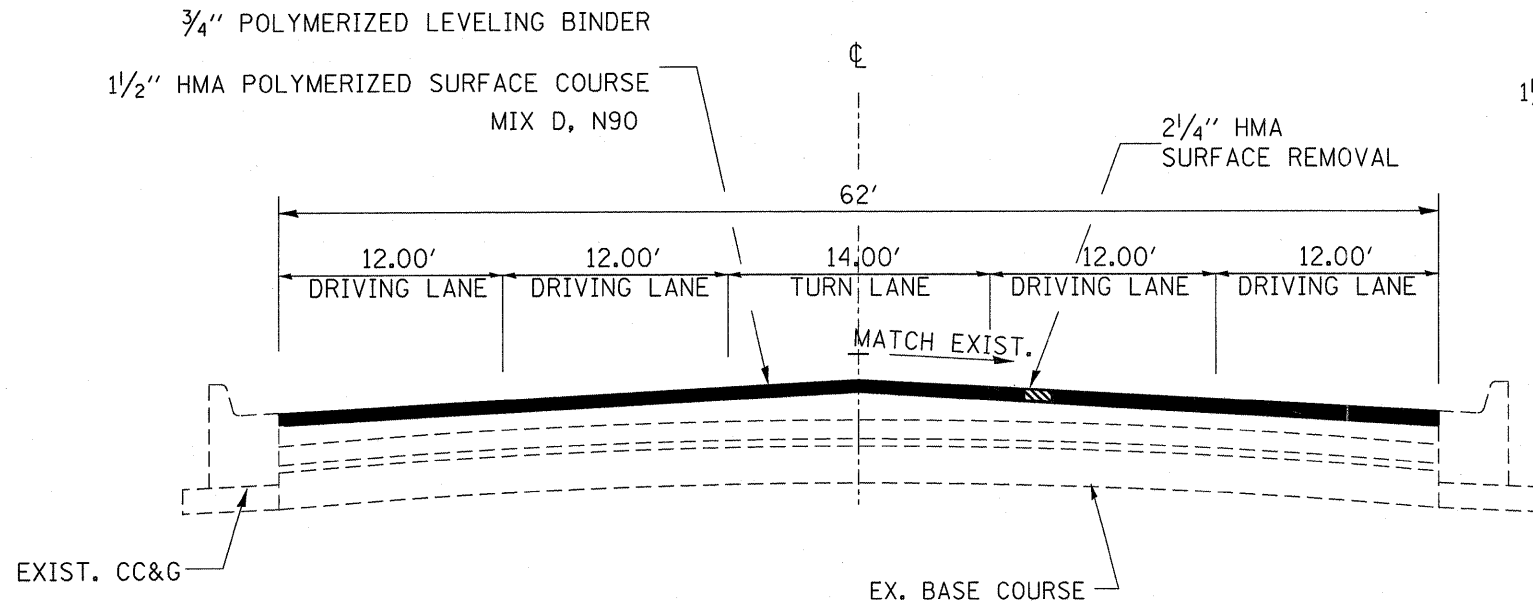
FILE NAME =	USER NAME = mcFaddenka	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 330 (US 4552) GENERAL NOTES & STANDARDS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\p\work\p\dot\mcFaddenka\d0275242\366868-sht-details.dgn		DRAWN -	REVISED -		330	11-00068-00-SP	KANKAKEE	16	2				
PLOT SCALE = 50.0000' / 1in.		CHECKED -	REVISED -		CONTRACT NO. 87514								
PLOT DATE = 2/16/2012		DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES			
CODE NO.	CONSTRUCTION CODE ITEM	UNIT	90% FEDERAL 10% CITY 0021
			TOTAL QUANTITY
20400800	FURNISHED EXCAVATION	CU YD	27
25200100	SODDING	SOYD	9
25200200	SUPPLEMENTAL WATERING	UNIT	10
40600115	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	GAL	774.3
40600300	AGGREGATE (PRIME COAT)	TON	12
40600745	POLYMERIZED LEVELING BINDER (HAND METHOD), N90	TON	2.9
40600845	POLYMERIZED LEVELING BINDER (MACHINE METHOD), N90	TON	250
40600990	TEMPORARY RAMP	SO YD	122
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	501
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SO FT	792
42400800	DETECTABLE WARNINGS	SO FT	56
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SO YD	5956
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	192
44000600	SIDEWALK REMOVAL	SO FT	699
56109210	WATER VALVES TO BE ADJUSTED	EACH	2
60255500	MANHOLES TO BE ADJUSTED	EACH	2
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	192
67100100	MOBILIZATION	LSUM	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	LSUM	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1
70200100	NIGHT-TIME WORK ZONE LIGHTING	LSUM	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	2755
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	218.4
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1423
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	556
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	729
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	516
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	142
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	2530
72000200	SIGN PANEL - TYPE 2	SO FT	60
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	218.4
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1423
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	556
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	729
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	516
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	142
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	28
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	270
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	664
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	12

Δ SPECIALITY ITEMS

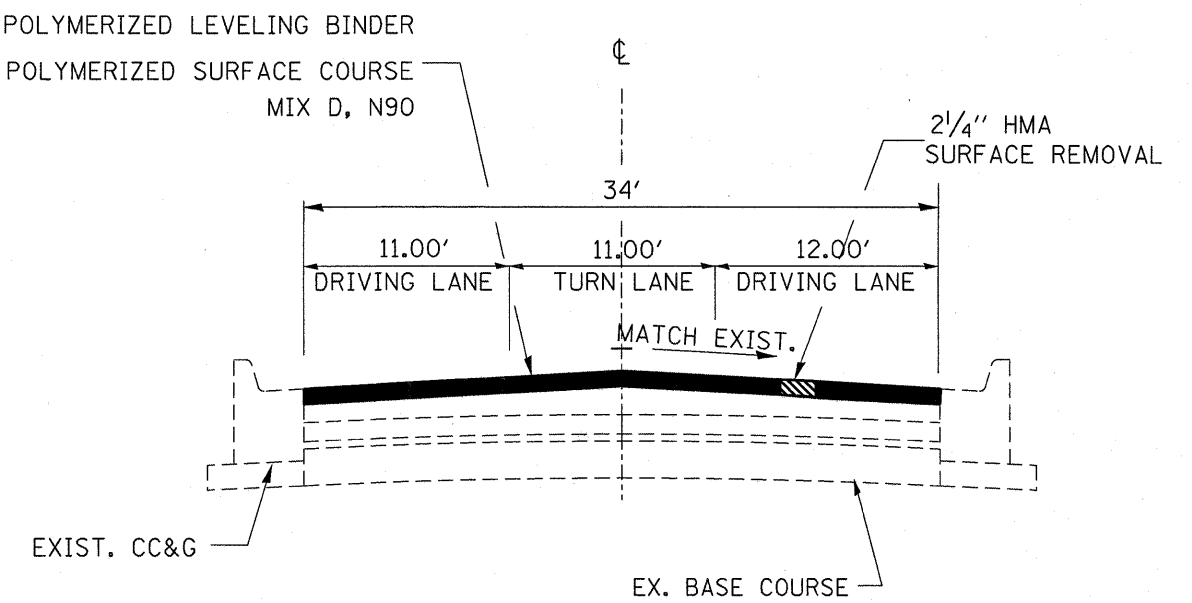
• REQUIRES SPECIAL PROVISION

SUMMARY OF QUANTITIES			
CODE NO.	CONSTRUCTION CODE ITEM	UNIT	90% FEDERAL 10% CITY 0021
			TOTAL QUANTITY
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	3
81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
81702450	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10	FOOT	606
82105500	LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 250 WATT	EACH	4
85000300	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	LSUM	1
86200300	UNINTERRUPTIBLE POWER SUPPLY, EXTENDED	EACH	1
86400100	TRANSCEIVER- FIBER OPTIC	EACH	3
87100160	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 24F	FOOT	2005
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2005
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1356
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1576
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1385
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1916
87301305	ELECTRIC CABLE IN CONDUIT LEAD IN NO. 14, 1 PAIR	FOOT	1471
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	65
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1258
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
87601100	PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE 1	EACH	2
87702870	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
87702940	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	3
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	9
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	49
87900200	DRILL EXISTING HANDHOLE	EACH	2
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	8
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	18
88500100	INDUCTIVE LOOP DETECTOR	EACH	11
88600100	DETECTOR LOOP, TYPE I	FOOT	1661
88700200	LIGHT DETECTOR	EACH	4
88700300	LIGHT DETECTOR AMPLIFIER	EACH	4
88800100	PEDESTRIAN PUSH BUTTON	EACH	8
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1672
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	4
89502380	REMOVE EXISTING HANDHOLE	EACH	3
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
89502500	REMOVE TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
X8250505	LIGHTING CONTROLLER, SPECIAL	EACH	1
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	1991
X8900100	TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)	EACH	1
X8950114	MODIFY EXISTING CONTROLLER AND CABINET	EACH	2
Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



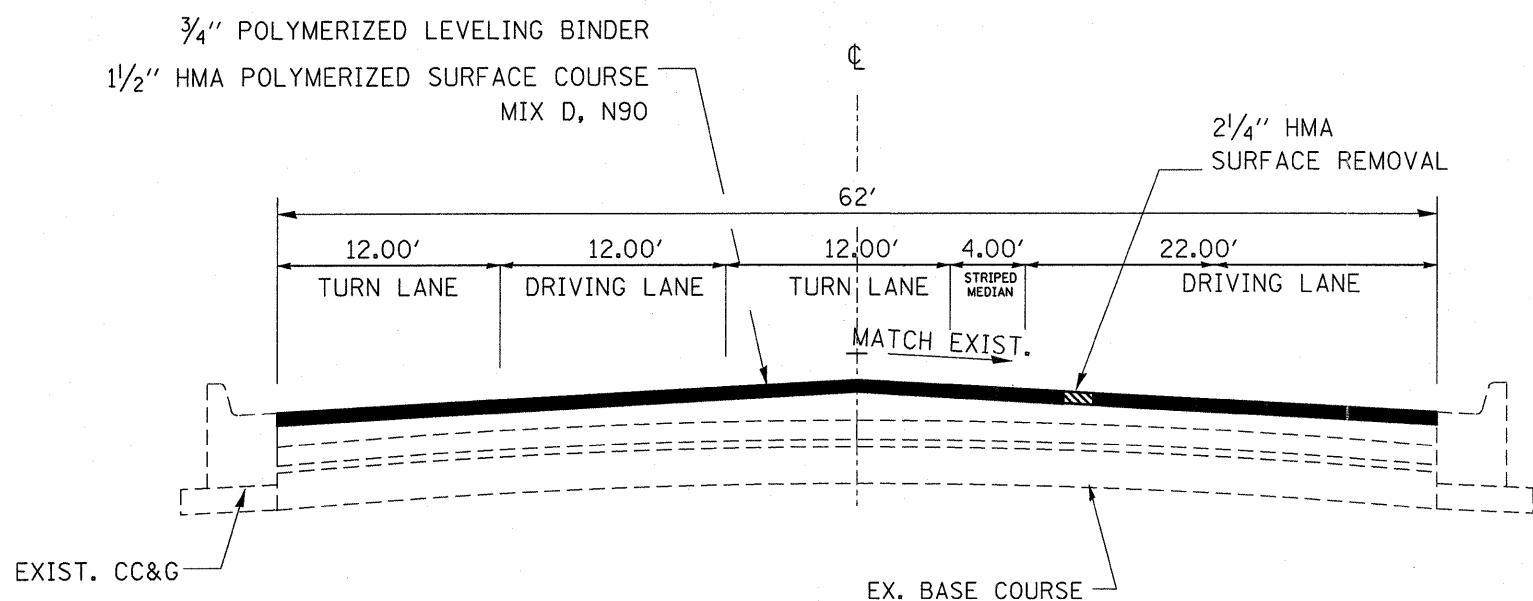
TYPICAL SECTION 1

US. 45/52 - CONVENT ST.
STA. 127+88.16 TO STA. 132+49.79



TYPICAL SECTION 3

JOHN CASEY ROAD
WEST OF US 45/52



TYPICAL SECTION 2

JOHN CASEY ROAD
EAST OF US 45/52

MIXTURE TABLE	
	HMA SURFACE
PG GRADE	SBS PG70-22
DESIGN AIR VOIDS	4.0% @ N90
MIXTURE COMPOSITION	IL 9.5
FRICTION AGGREGATE	Mixture D
DENSITY TEST METHOD	CORES

MAINLINE SCHEDULE										
LOCATION	DESCRIPTION	LENGTH	AREA	HMA SURF REM 2 1/4"	POLY, HMA SURF CSE	POLY, LEVEL BINDER (MM)	POLY, LEVEL BINDER (HM)	TEMP RAMP	POLY, BIT MATL (PR CT)	AGG (PR CT)
STA.		FOOT	SQ YD	SQ YD	TON	TON	TON	SQ YD	GALLON	TON
127+25 TO 130+45.76	US 45/52 SOUTH	321	2211.3	2211	186	93	1.1	34.4	287.5	4.4
130+45.76 TO 134+00	US 45/52 NORTH	354	2438.7	2439	205	102	1.2	34.4	317.0	4.9
8+53 TO 9+68.54	JOHN CASEY WEST	116	438.2	438	37	18	0.2	18.9	57.0	0.9
20+30.4 TO 21+56	JOHN CASEY EAST	126	868	868	73	37	0.4	34.4	112.8	1.7
JOHN CASEY DR. SUBTOTALS				5956	501	250	2.9	122.0	774.3	11.9

SIDEWALK SCHEDULE						
LOCATION	DESCRIPTION	SIDEWALK REMOVAL	PCC SIDEWALK 4"	COMB C&G REM	COMBINATION CC&G, TYPE B 6.24	DETECTABLE WARNINGS
		SQ FT	SQ FT	FT	FT	SQ FT
JOHN CASEY DR./ US 45/52	NE QUADRANT	141	124	35	35	8
	SE QUADRANT	85	142	48	48	16
	SW QUADRANT	195	223	50	50	16
	NW QUADRANT	278	303	59	59	16
TOTALS		699	792	192	192	56

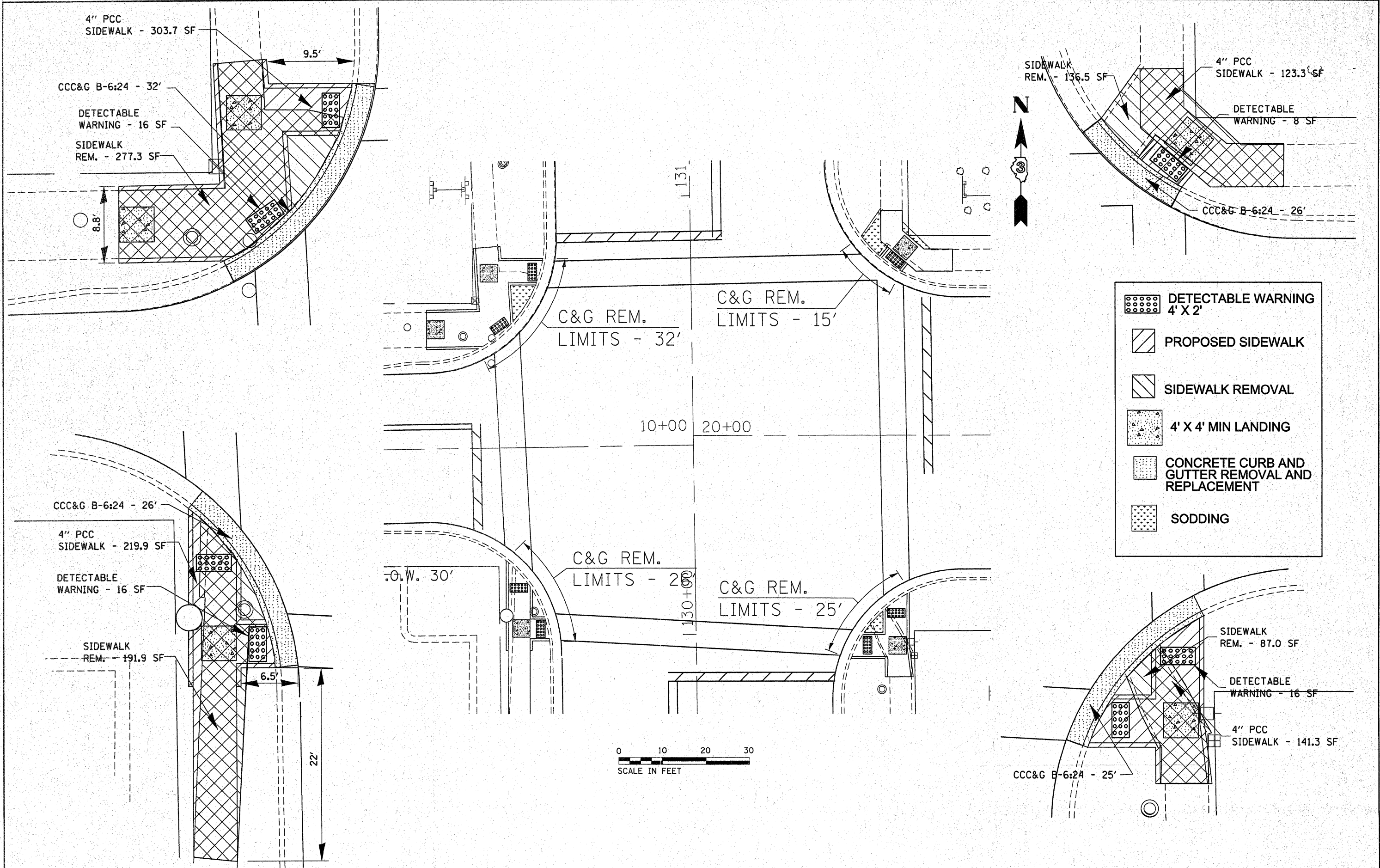
PAVEMENT MARKING													
LOCATION	DESCRIPTION	LENGTH	WORK ZONE PAVT' MK REMOVAL	SHORT TERM PAVEMENT MARKING		THERMOPLASTIC PAVEMENT MARKING LINE						LETTERS & SYMBOLS	
				WHITE	YELLOW	4 INCH	6 INCH		8 INCH	12 INCH	24 INCH		WHITE
				FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT		FOOT
127+25 TO 130+46.07	US 45/52 SOUTH	321	632	597	106	398	132			216	132	38	46.8
130+46.07 TO 134+00	US 45/52 NORTH	354	958	907	154	623	146	40		211	146	38	78
8+53	JOHN CASEY WEST	131	331	318	38	200	99			100	99	25	31.2
21+56	JOHN CASEY EAST	120	609	596	120	202	139			202	139	41	62.4
TOTALS				2530	2418	1423	516	40		729	516	142	218.4

TEMPORARY PAVEMENT MARKING											
LOCATION	DESCRIPTION	LENGTH	TEMPORARY PAVEMENT MARKING LINE								LETTERS & SYMBOLS
			4 INCH	6 INCH		8 INCH	12 INCH	24 INCH	WHITE		
			YELLOW	WHITE	YELLOW	WHITE	WHITE	WHITE	WHITE		
127+25 TO 130+46.07	US 45/52 SOUTH	321	398	132			216	132		38	46.8
130+46.07 TO 134+00	US 45/52 NORTH	354	623	146	40		211	146		38	78
8+53 TO 9+54	JOHN CASEY WEST	131	200	99			100	99		25	31.2
20+55 TO 21+56	JOHN CASEY EAST	120	202	139			202	139		41	62.4
TOTALS			1423	516	40		729	516		142	218.4

MANHOLE SCHEDULE		
LOCATION	OFFSET	MANHOLE TO BE ADJUSTED
STA	LT/RT	EACH
130+68	52' LT	1
129+87	42' RT	1
TOTAL		2

RAISED REFLECTIVE PAVEMENT MARKER	
LOCATION	ONE-WAY CRYSTAL
US 45/52 SOUTH	12
US 45/52 NORTH	16
TOTALS	28

WATER VALVE SCHEDULE		
LOCATION	OFFSET	WATER VALVE TO BE ADJUSTED
STA	LT/RT	EACH
130+67	52.5' LT	1
130+84	56.6' RT	1
TOTAL		2



	DETECTABLE WARNING 4' X 2'
	PROPOSED SIDEWALK
	SIDEWALK REMOVAL
	4' X 4' MIN LANDING
	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT
	SODDING

FILE NAME =	USER NAME = mofaddenka	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 330 (US 4552) SIDEWALK PLAN	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pw\work\pwwork\mofaddenka\08275242\3xxxxx-shr-plan.dgn	PLOT SCALE = 10.0000' / 1in.	DRAWN -	REVISED -			330	11-00068-00-SP	KANKAKEE	16	6	
PLOT DATE = 2/10/2012	DATE -	CHECKED -	REVISED -			CONTRACT NO. 87514					
						ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	



MATCH LINE STA. 132 + 00

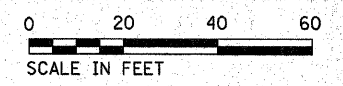
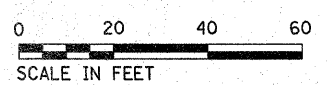
US 45/52 STA. 130+43.55
JOHN CASEY RD EAST STA. 10+00

US 45/52 STA. 130+45.76
JOHN CASEY RD WEST STA. 20+00

MATCH LINE STA. 132 + 00

MATCH LINE STA. 128 + 50

FOR INFORMATION ONLY



MATCH LINE STA. 128 + 50

FILE NAME =	USER NAME = mofaddenka	DESIGNED -	REVISED -
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	PLOT SCALE = 28.0000' / 1"	CHECKED -	REVISED -
	PLOT DATE = 2/10/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING TRAFFIC SIGNAL PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	11-00068-00-SP	KANKAKEE	16	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 87514	

GENERAL NOTES

- THE CONTRACTOR SHALL CONTACT THE VILLAGE OF BOURBONNAIS A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK.
- THE TRAFFIC SIGNAL SECTION AT THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DISTRICT 3, SHALL BE NOTIFIED AT 815-434-8506 AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNITS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCED NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123.
- ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS.
- ALL TRAFFIC SIGNAL HEADS ARE TO BE 12-INCH POLYCARBONATE.
- TRAFFIC SIGNAL HEADS SHALL BE PROPERLY COVERED PRIOR TO INTERSECTION TURN-ON OR AS DIRECTED BY THE ENGINEER. THIS COST SHALL BE INCLUDED WITH THE COST OF THE ASSOCIATED TRAFFIC SIGNAL PAY ITEMS.
- THE CONTRACTOR SHALL ENSURE THE SIGNAL HEADS OVER THE LEFT TURN LANES ARE SET WITH AN OFFSET, SO THAT THEY ARE NOT OBSTRUCTED BY EACH OTHER, WHILE KEEPING THEM IN THE CENTER OF THE LANE. NOTIFY THE TRAFFIC SIGNALS DEPARTMENT AT 815-434-8505 FOR MORE INFORMATION.
- A 1/4" DIAMETER CONTINUOUS RODENT RESISTANT NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER. THIS COST SHALL BE INCLUDED WITH THE TRAFFIC SIGNAL CONTROLLER.
- THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WITH THE SIGNAL IS TURNED ON, COST TO BE INCLUDED WITH THE TRAFFIC SIGNAL CONTROLLER PAY ITEM.
- NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT A GREATER THAN 2' MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
- THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.
- ALL THREADS OF BOLTS USED IN THE ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.
- ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED, CABLES SHALL BE NEATLY WOUND IN HANDHOLES, CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.
- ALL TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL SPLICES IN JUNCTION BOXES WILL NOT BE ALLOWED.
- THE CONTROLLER CABINET SHALL BE PLACED SO THAT A TECHNICIAN MAY SEE THE INTERSECTION OVER THE TOP OF THE CABINET WHILE WATCHING THE COMPONENTS IN THE CABINET.
- THE PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET SHALL BE FURNISHED WITH A MANUAL CONTROL SWITCH AND MANUAL CONTROL CHORD WITHIN THE POLICE DOOR COMPARTMENT, THIS WORK SHALL BE INCLUDED IN THE CONTROLLER CABINET PAY ITEM.
- THE CONTRACTOR SHALL PROVIDE A SELF-ADHERED PHASE DIAGRAM ON THE INSIDE OF THE CONTROLLER CABINET DOOR
- THE CONTROLLER SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNALS. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO BEGINNING WORK TO OBTAIN THE UTILITY COMPANY REQUIREMENTS FOR THE SERVICE INSTALLATION.
- THE ELEVATION OF THE TOP OF THE DOUBLE HANDHOLE SHALL BE LESS THAN THE ELEVATION OF THE TOP OF THE CONTROLLER FOUNDATION.
- ALL UNINTERRUPTABLE POWER SUPPLIES SHALL BE EQUIPPED WITH ALPHA GUARD MONITORS.

- ALL GROUNDING MATERIALS FOR CONCRETE FOUNDATIONS SHALL REFER TO SECTION 807 OF THE STANDARD SPECIFICATIONS.
- ALL AREAS DISTURBED BY THE CONTACTOR SHALL BE RESTORED WITH SEED OR SOD TO THE SATISFACTION OF THE ENGINEER. SEEDING OR SODDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION.
- FIBER OPTIC CABLE SHALL BE LABELED WITH DIRECTION AND ASSIGNMENT NUMBER.
- THE SURGE PROTECTOR IN THE CONTROLLER CABINET SHALL HAVE AN INDICATOR LIGHT.
- THE MAST ARM FOUNDATIONS SHALL BE LOCATED A MINIMUM 6' FROM THE FACE OF CURB OR A MINIMUM 18' FROM THE EDGE OF PAVEMENT TO THE FACE OF FOUNDATION WHERE THERE IS NO CURB, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IN CURB AREA, GET MORE THAN 6' IF POSSIBLE IF THE SIGNAL HEAD STILL LINES UP IN THE CENTER OF LANE.
- ALL SIGNAL HEADS ON AN INDIVIDUAL SPAN WIRE SHALL BE MOUNTED SO THAT THE "RED" INDICATIONS ARE LEVEL WITH EACH OTHER.
- THE CONTRACTOR SHALL PROVIDE 3 FEET OF SLACK CABLE IN THE CONTROLLER AND ON WOOD POLES. THE SLACK IS IN ADDITION TO THE VERTICAL LENGTH OF CABLE DEFINED IN THE STANDARD SPECIFICATIONS AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR ELECTRIC CABLE OF THE TYPE SPECIFIED.
- TEMPORARY WOOD POLES SHALL BE LOCATED A MINIMUM OF 6' FROM THE FACE OF CURB OR A MINIMUM OF 18' FROM THE EDGE OF PAVEMENT WHERE THERE IS NO CURB, UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
- ALL TEMPORARY WOOD POLES SHALL BE INSTALLED SO THAT A MINIMUM OF 30' OF POLE IS ABOVE THE EXISTING PAVEMENT ELEVATION ADJACENT TO THE POLE. A SUFFICIENT LENGTH OF POLE SHALL BE BURIED AND BACKFILLED TO ALLOW THE INSTALLATION TO WITHSTAND A 70 M.P.H SUSTAINED WIND LOAD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE WOOD POLE LOCATIONS BEFORE ORDERING TO DETERMINE IF LONGER POLES ARE REQUIRED.

MILLING AND RESURFACING NOTES

THIS WORK SHALL CONSIST OF THE REMOVAL AND REPLACEMENT OF DETECTOR LOOPS AND AXLE DETECTORS (PIEZOCABLE SENSOR). THE DETECTOR LOOPS AND AXLE DETECTORS SHALL BE REMOVED WITH THEIR ELECTRIC CABLE ALL THE WAY TO THE EXISTING CABINET CONNECTION, AND REPLACED IN THE SAME MANNER USING THE EXISTING CONDUIT, HANDHOLE, AND GULFBOX JUNCTION.

- PLACE DETECTOR LOOPS IN BINDER OR MILLED SURFACE
- DETECTOR LOOPS SHALL HAVE FOUR TURNS. ADVANCED WARNINGS SHALL HAVE SIX TURNS
- SAW CUT EXISTING DETECTOR LOOP TO BE ABANDONED
- THE DEPARTMENT OF TRANSPORTATION (815-434-8506) SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO THE LAYOUT OF THE DETECTOR LOOPS.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (89502375) SHALL CONSIST OF REMOVING THE FOLLOWING ITEMS:

1	EACH	CONTROLLER & CABINET
2	EACH	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 3-SECTION, BRACKET MOUNTED
6	EACH	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 4-SECTION, MAST ARM MOUNTED
8	EACH	SIGNAL HEAD, POLYCARBONATE, 1-FACE, 4-SECTION, MAST ARM MOUNTED
12	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 36 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 42 FT.
1	EACH	FULL-ACTUATED CONTROLLER, SPECIAL SEQUENCE, 6 PHASES & CABINET
3	EACH	CONCRETE HANDHOLE
1	EACH	CONCRETE DOUBLE HANDHOLE
1	EACH	PEDESTRIAN PUSH BUTTON POST

ELECTRICAL LOAD CHART

STREET NAME	COMPONENT	NUMBER	WATTAGE EACH	BURN TIME %
US 45/52	RED	10	7	35
	YELLOW	10	12	5
	GREEN	10	9.5	60
	YELLOW ARROW LT	4	6	5
	GREEN ARROW LT	4	6	10
	WALK	4	7	5
	DO NOT WALK	4	7	95
JOHN CASEY	RED	8	7	60
	YELLOW	8	12	5
	GREEN	8	9.5	35
	YELLOW ARROW LT	6	6	5
	GREEN ARROW LT	6	6	10
	WALK	4	7	5
	DO NOT WALK	4	7	95
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100
	DETECTOR LOOPS	10	4	100

HIGHWAY LIGHTING

ITEM	NUMBER	WATTAGE EACH	BURN TIME %
CONTROLLER	1	6	100
LUMINAIRE	4	250	360 HR/ MONTH

AGENCY RESPONSIBLE FOR ENERGY CHARGES: VILLAGE OF BOURBONNAIS
(NOTE: SEPARATE ENERGY BILLS FOR HIGHWAY LIGHTING AND TRAFFIC SIGNALS SHALL BE SUBMITTED TO THE VILLAGE OF BOURBONNAIS)

SCHEDULE OF QUANTITIES

CODE NO.	UNIT	ITEM	QUANTITY
72000200	SQ FT	SIGN PANEL - TYPE 2	60
80400100	EACH	ELECTRIC SERVICE INSTALLATION	1
81028240	FOOT	UNDERGROUND CONDUIT GALVANIZED STEEL, 4" DIA.	270
81028350	FOOT	UNDERGROUND CONDUIT PVC, 2" DIA.	664
81028390	FOOT	UNDERGROUND CONDUIT PVC, 4" DIA.	12
81400700	EACH	HANDHOLE, PORTLAND CEMENT CONCRETE	3
81400720	EACH	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	1
81702450	FOOT	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/8 NO. 10	606
82105500	EACH	LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 250 WATT	4
85000300	LSUM	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	1
86200300	EACH	UNINTERRUPTIBLE POWER SUPPLY, EXTENDED	1
86400100	EACH	TRANSCEIVER- FIBER OPTIC	3
87100160	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 24F	2005
87300925	FOOT	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1C	2005
87301215	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	1356
87301225	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	1576
87301245	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	1385
87301255	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	1916
87301305	FOOT	ELECTRIC CABLE IN CONDUIT LEAD-IN NO. 14, 1 PAIR	1471
87301805	FOOT	ELECTRIC CABLE IN CONDUIT NO. 6 2C	65
87301900	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	1258
87502500	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	3
87601100	EACH	PEDESTRIAN PUSH BUTTON POST, GALVANIZED STEEL TYPE 1	2
87702870	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 28 FT.	1
87702940	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 42 FT.	3
87800100	FOOT	CONCRETE FOUNDATION, TYPE A	9
87800150	FOOT	CONCRETE FOUNDATION, TYPE C	4
87800415	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	49
87900200	EACH	DRILL EXISTING HANDHOLE	2
88040070	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	2
88040090	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	6
88040150	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	6
88040160	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	4
88102825	EACH	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MT W/TIMER	8
88200410	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	18
88500100	EACH	INDUCTIVE LOOP DETECTOR	11
88600100	FOOT	DETECTOR LOOP, TYPE I	1661
88700200	EACH	LIGHT DETECTOR	4
88700300	EACH	LIGHT DETECTOR AMPLIFIER	4
88800100	EACH	PEDESTRIAN PUSH-BUTTON	8
89502300	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT	1672
89502375	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	4
89502380	EACH	REMOVE EXISTING HANDHOLE	3
89502382	EACH	REMOVE EXISTING DOUBLE HANDHOLE	1
89502385	EACH	REMOVE EXISTING CONCRETE FOUNDATION	5
89502500	EACH	REMOVE TEMPORARY TRAFFIC SIGNAL INSTALLATION	1
X8250505	EACH	LIGHTING CONTROLLER, SPECIAL	1
X8570225	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	1
X8730250	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	1991
X8900100	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION (SPECIAL)	1
X8950114	EACH	MODIFY EXISTING CONTROLLER AND CABINET	2
Z0033044	EACH	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	1



MATCH LINE STA. 132+00

END PROJECT
STA. 134+00

US 45/52 STA. 130+43.55
JOHN CASEY RD EAST STA. 10+00

US 45/52 STA. 130+45.76
JOHN CASEY RD WEST STA. 20+00

INSTALL AN EXTENSION ON THE
PEDESTRIAN HEAD BRACKET SO THAT
THE PEDESTRIAN HEAD IS IN FRONT OF
THE STOP BAR.
MAKE SURE EXTENSION BRACKET IS
STURDY AND APPROVED BY
TRAFFIC SIGNAL SECTION.

PROJECT LIMITS
JOHN CASEY RD WEST
STA. 8+53

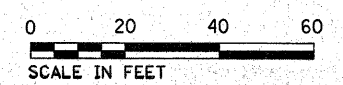
PROJECT LIMIT
JOHN CASEY RD. EAST
STA. 21+56

MATCH LINE STA. 132+00

MATCH LINE STA. 128+50

TRAFFIC SIGNAL LEGEND	
PROPOSED	EXISTING

THE CONTROLLER SHALL BE ASC 3-2100 ECONOLITE CONTROLLERS WITH EDI-MMU AND LS-200 LOAD SWITCH IN ORDER TO BE COMPATIBLE WITH THE VILLAGE OF BOURBONNAIS'S EXISTING SYSTEM. NO OTHER CONTROLLERS SHALL BE ACCEPTED. THE CONTROLLERS AND CABINETS SHALL BE PURCHASED NO MORE THAN FOUR MONTHS PRIOR TO INSTALLATION TO ENSURE THE LATEST TECHNOLOGY IS USED.

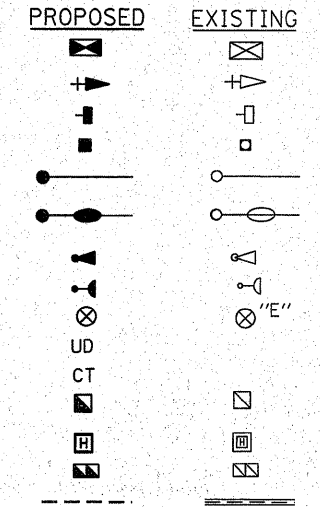


MATCH LINE STA. 128+50

FILE NAME =	USER NAME = mofaddenka	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL AND DETECTOR LOOP PLAN	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT SCALE = 20.0000' / 1"		CHECKED -	REVISED -			CONTRACT NO. 87514					
PLOT DATE = 2/10/2012		DATE -	REVISED -			[ILLINOIS] FED. AID PROJECT					

TRAFFIC SIGNAL LEGEND

- CONTROLLER
- SIGNAL HEAD WITH BACK PLATE
- SIGNAL HEAD, PEDESTRIAN
- PEDESTRIAN PUSH BUTTON POST
- MAST ARM ASSEMBLY AND POLE, STEEL
- COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- WOOD POLE
- UNIT DUCT
- COMMON TRENCH
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)



SIGNAL INSTALLATION STATIONING

QUADRANT	ITEM	STATION	OFFSET
SOUTHEAST	CONTROLLER	129+83.20	42.9' RT
	DOUBLE HANDHOLE	129+83.12	36.5' RT
	MANHOLE	129+87.35	42.4' RT
	SIGNAL POST	129+92.30	40.2' RT
	PUSH BUTTON	130+03.70	50.3' RT
	MAST ARM	130+04.00	64.6 RT
SOUTHWEST	TEMP SIGNAL POST	130+09.70	55.5' RT
	HANDHOLE	129+91.11	35.1' LT
	MAST ARM	130+04.94	43.4' LT
NORTHEAST	TEMP SIGNAL POST	130+15.93	45.0' LT
	HANDHOLE	130+98.94	37.2' RT
	MAST ARM	131+08.84	42.4' RT
NORTHWEST	PUSH BUTTON	130+97.08	42.8' RT
	SIGNAL POST	130+88.91	54.1' RT
	HANDHOLE	130+79.00	40.1' LT
NORTHWEST	MAST ARM	130+72.81	53.4' LT
	SIGNAL POST	130+87.62	41.3' LT

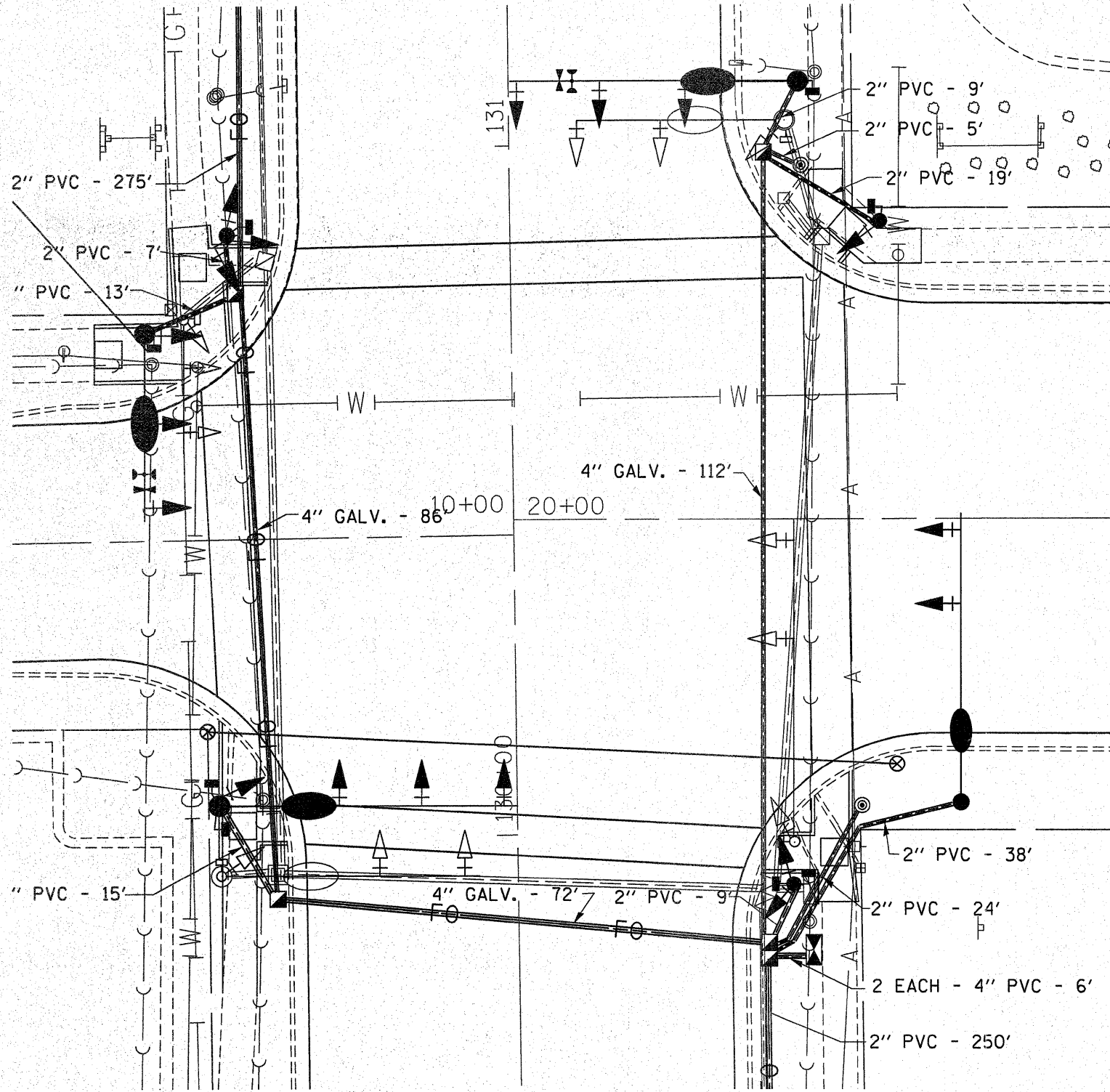
FOUNDATION DEPTHS

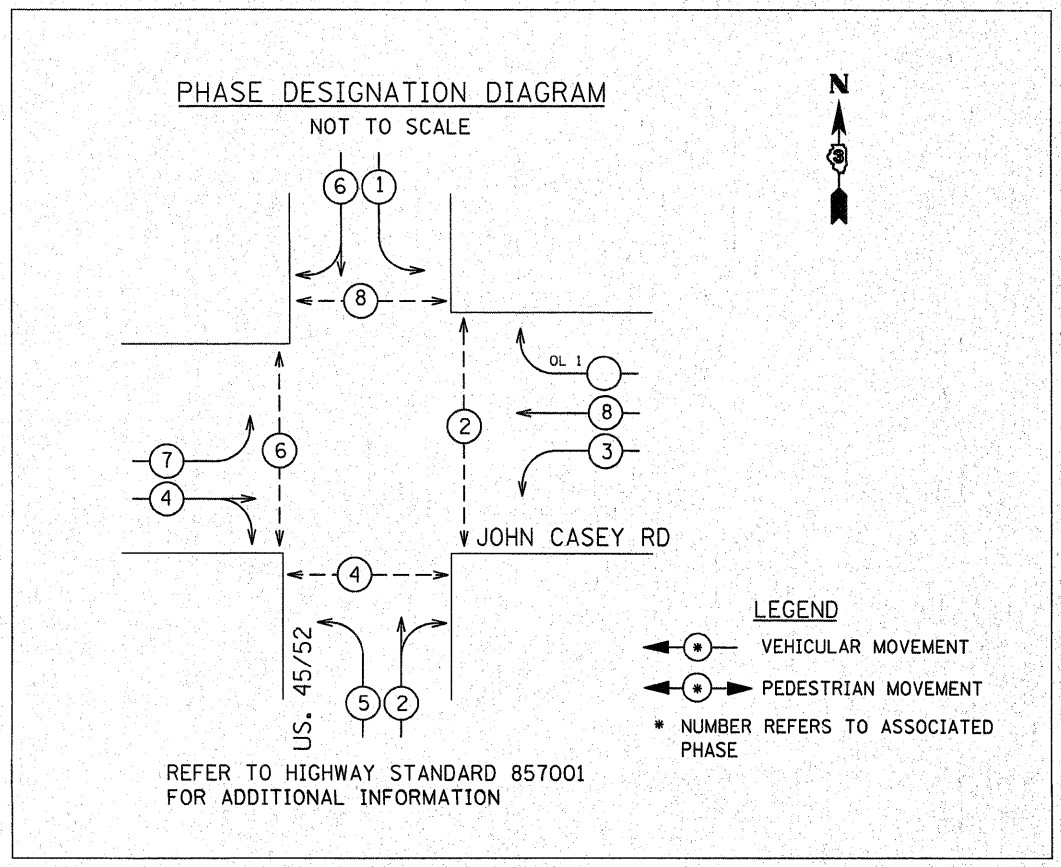
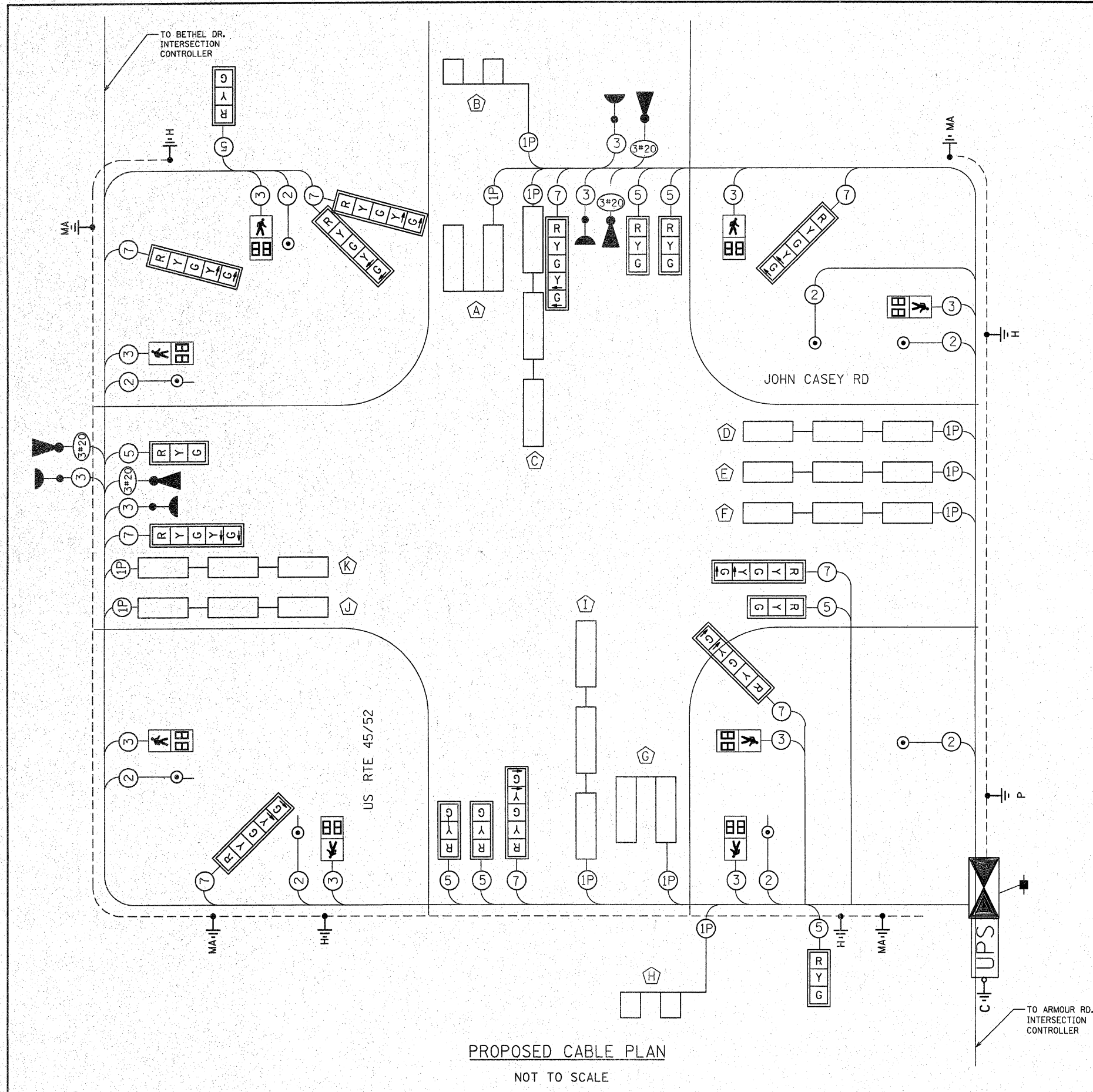
MAST ARM	ARM LENGTH	STATION	OFFSET	DEPTH
36" DIAMETER				
SOUTHEAST	42'	130+04.00	64.6 RT'	13
SOUTHWEST	42'	130+04.94	43.4' LT	13
NORTHEAST	42'	131+08.84	42.4' RT	13
NORTHWEST	27'	130+72.81	53.4' LT'	10

RESTORATION OF WORK AREA

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

LOCATIONS OF MAST ARM ASSEMBLIES MAY BE CHANGED IN THE FIELD AS NECESSARY IN ORDER TO AVOID UTILITIES. THE NEW LOCATIONS SHALL BE COORDINATED WITH THE ENGINEER AND APPROVED BY THE DISTRICT TRAFFIC SIGNAL SECTION TO ENSURE THE NEW LOCATIONS MEET OPERATIONAL OFFSET AND CLEAR ZONE REQUIREMENTS AND MAINTAIN PROPER POSITION OF SIGNAL HEADS IN RELATION TO THE TRAVELED LANES.





- TRAFFIC SIGNALS LEGEND**
- EMERGENCY VEHICLE LIGHT DETECTOR
 - CONFIRMATION BEACON
 - SIGNAL FACE WITH BACK PLATE
"P" INDICATES PROGRAMMED HEAD.
 - CONTROLLER CABINET
 - GROUND ROD AT HANDHOLE (H),
DOUBLE HANDHOLE (HH), OR CONTROLLER (C)
 - GROUND ROD AT POST (P) OR
MAST ARM POLE (MA)
 - UN-INTERRUPTIBLE POWER SUPPLY (UPS)
 - 12" (300mm) PEDESTRIAN SIGNAL SECTION
WITH COUNTDOWN TIMER
 - PUSHBUTTON DETECTOR
 - DETECTOR LOOP SYSTEM

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	PLOT DATE = 2/10/2012	DATE -	REVISED -

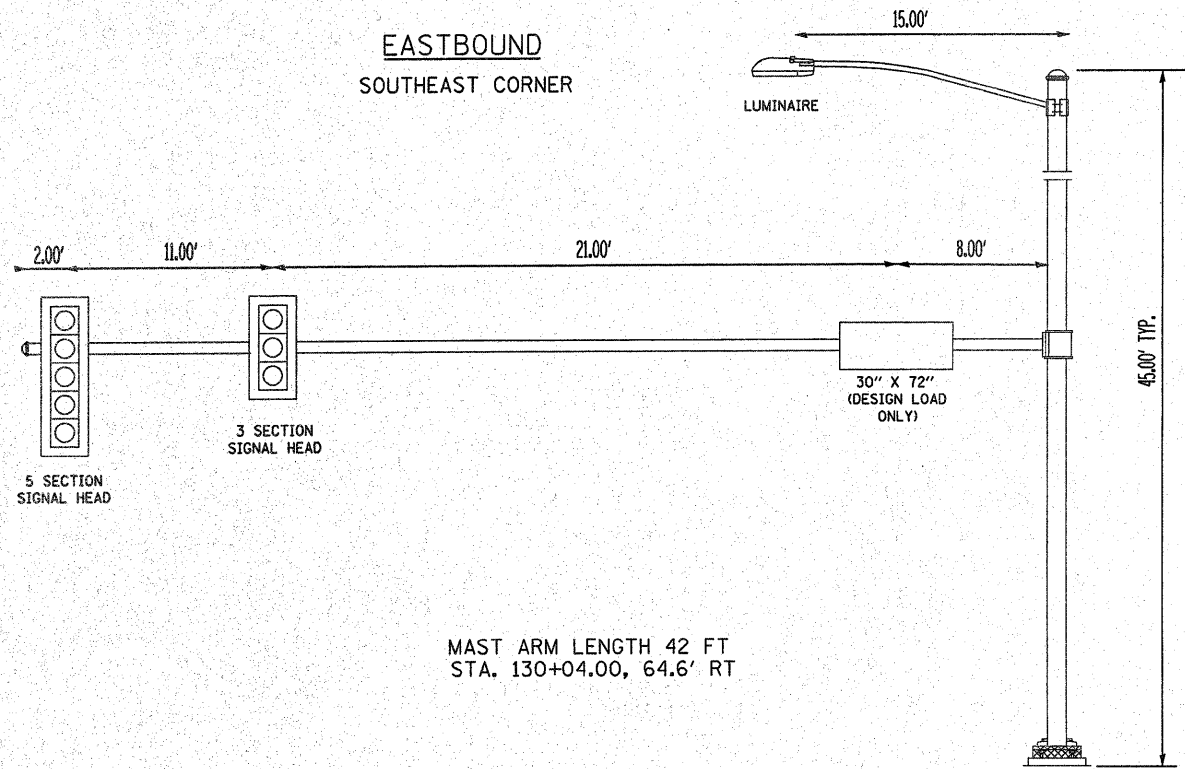
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 330 (US 45/52)
CABLE PLAN**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	11-00068-00-SP	KANKAKEE	16	11
CONTRACT NO. 87514				
ILLINOIS FED. AID PROJECT				

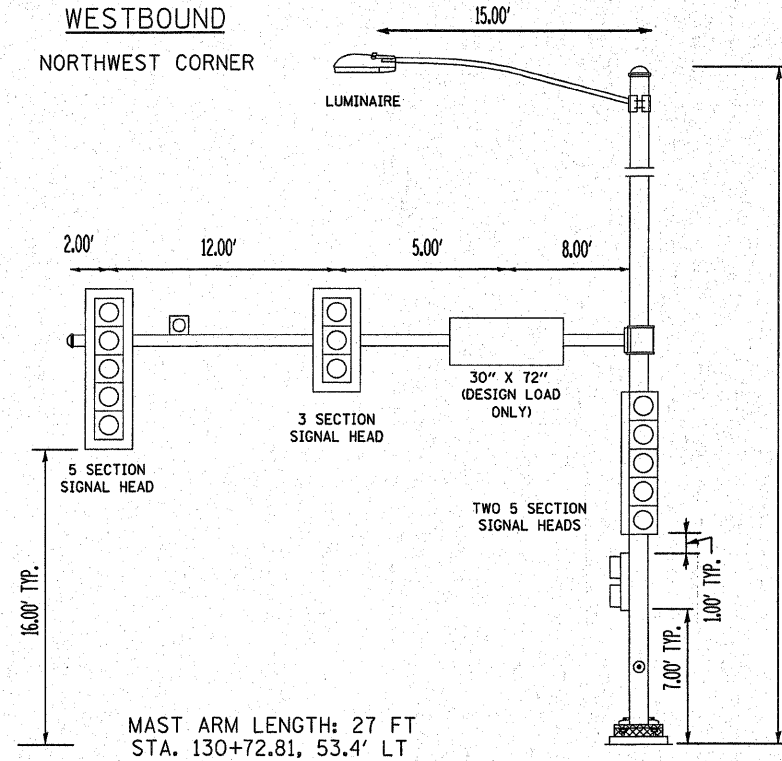
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

**EASTBOUND
SOUTHEAST CORNER**



MAST ARM LENGTH 42 FT
STA. 130+04.00, 64.6' RT

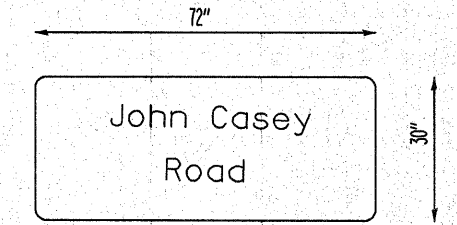
**WESTBOUND
NORTHWEST CORNER**



MAST ARM LENGTH: 27 FT
STA. 130+72.81, 53.4' LT

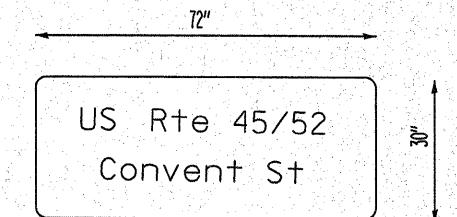
MAST ARM AND SIGNAL NOTES:

1. ALL SIGNAL HEADS HAVE BACKPLATES.
2. ALL MAST ARM FOUNDATIONS TO BE 36" DIAMETER.
3. DAMPING DEVICE SHALL CONSIST OF A 24" X 30" TYPE-I UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON THE TOP OF THE MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPING DEVICE SHALL BE INCLUDED IN THE COST OF THE MAST ARM.
4. ARM SUPPORT FOR THE LUMINAIRE SHALL BE PARALLEL TO THE MAST ARM.
5. MAST ARM AND POLE SHALL BE DESIGNED FOR THE WORST CASE LOADING CONDITION WHEREBY ALL THE SIGNAL HEADS ARE LOCATED 2 FEET FARTHER OUT THAN POSITION SHOWN, HOWEVER THE INTENT IS THAT ALL SIGNAL HEADS BE CENTERED ABOVE THE LANES



2 SIGNS REQUIRED = 15 SQ FT. EACH
= 30 SQ FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLELED WITH JOHN CASEY ROAD

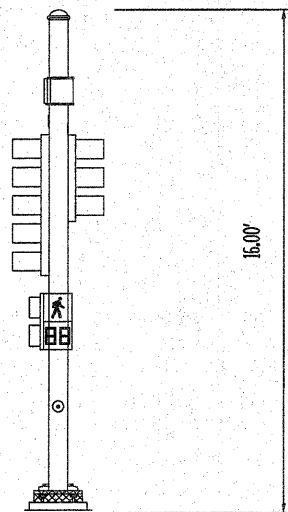


2 SIGNS REQUIRED = 15 SQ FT. EACH
= 30 SQ FT. TOTAL

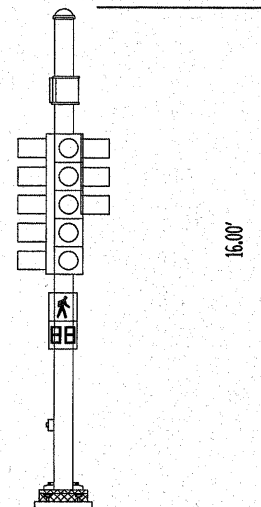
THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLELED WITH CONVENT STREET

SIGN NOTES:

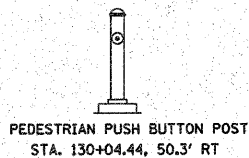
1. 3/4" BORDER, 2-1/4" CORNER RADIUS
2. TYPE ZZ SHEETING REQUIRED
3. 3.8" UC/LC LETTERS
4. 20 SQ FT MAXIMUM SIGN SIZE
5. WHITE REFLECTORIZED LEGEND ON A GREEN REFLECTORIZED BACKGROUND



SIGNAL POLE HEIGHT 16 FT
STA. 129+90.05, 40.2' RT

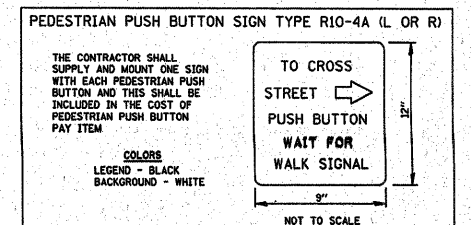


SIGNAL POLE HEIGHT 16 FT
STA. 130+87.02, 41.3' RT



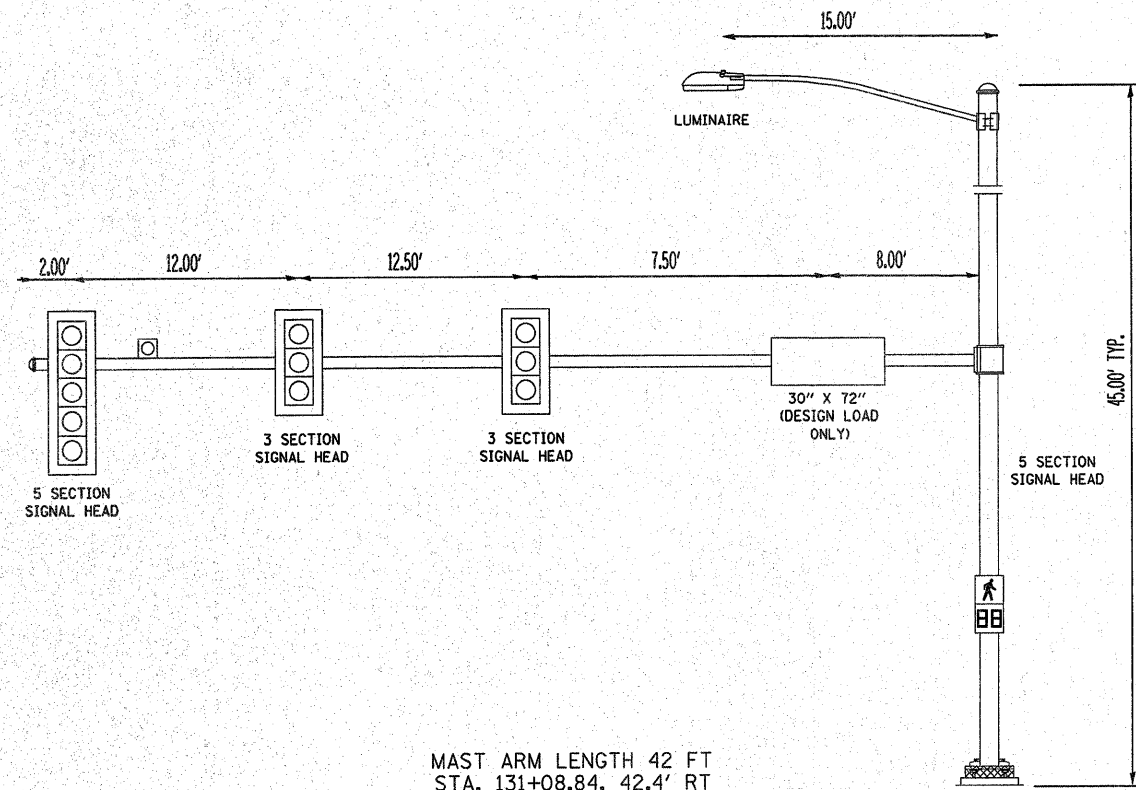
PEDESTRIAN PUSH BUTTON POST
STA. 130+04.44, 50.3' RT

DRAWING NOT TO SCALE

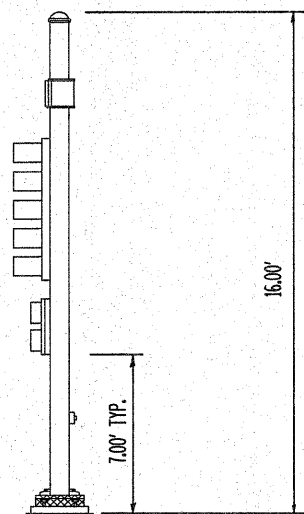


FILE NAME =	USER NAME = mofaddenka	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 330 (US 4552) MAST ARM AND SIGN DETAILS	F.A.P. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
ct:\pw_work\pwidot\mofaddenka\0275242\366868-sht-details.dgn		DRAWN -	REVISED -			330	11-00068-00-SP	KANKAKEE	16	12
PLOT SCALE = 49.3827' / 1" =		CHECKED -	REVISED -			SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 87514		
PLOT DATE = 2/10/2012		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

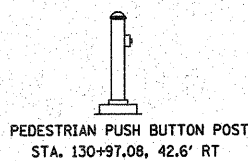
NORTHBOUND
NORTHEAST CORNER



MAST ARM LENGTH 42 FT
STA. 131+08.84, 42.4' RT

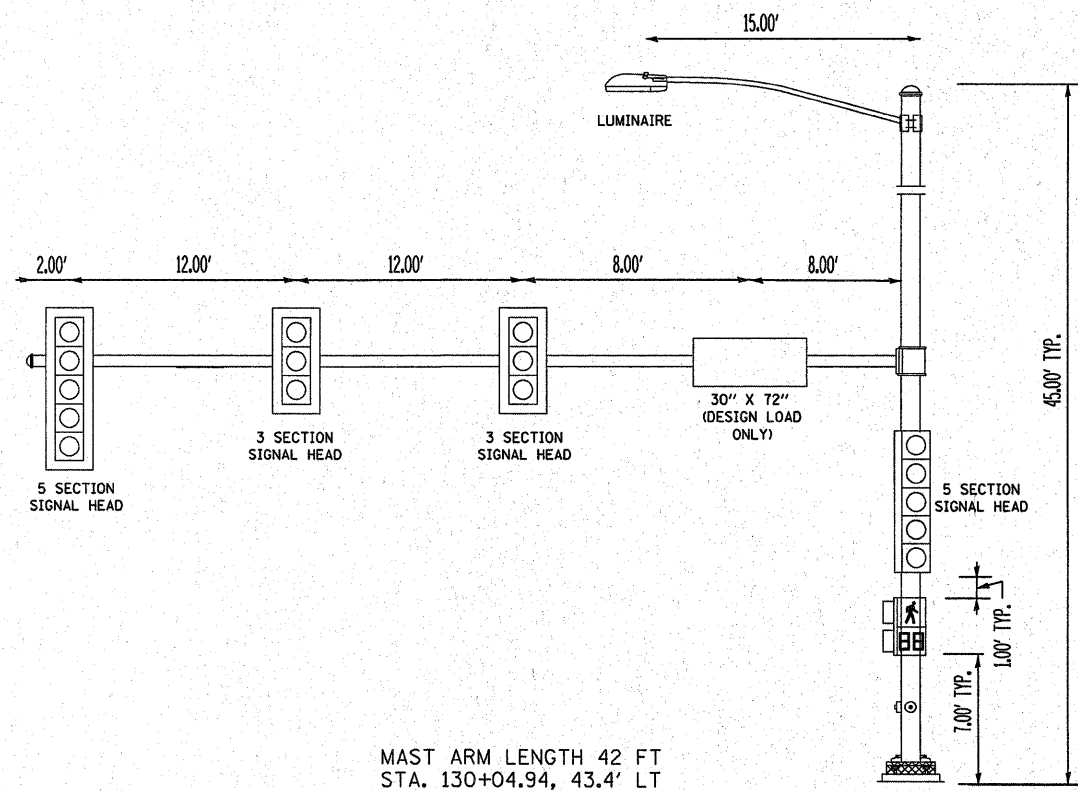


SIGNAL POLE HEIGHT 16 FT
STA. 130+88.91, 54.1' RT

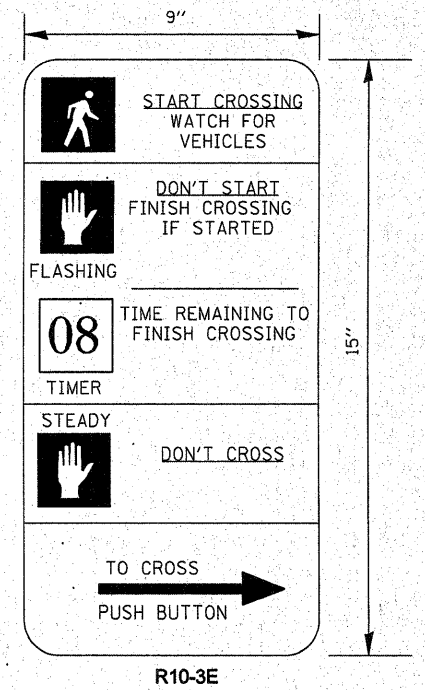


PEDESTRIAN PUSH BUTTON POST
STA. 130+97.08, 42.6' RT

SOUTHBOUND
SOUTHWEST CORNER



MAST ARM LENGTH 42 FT
STA. 130+04.94, 43.4' LT



R10-3E

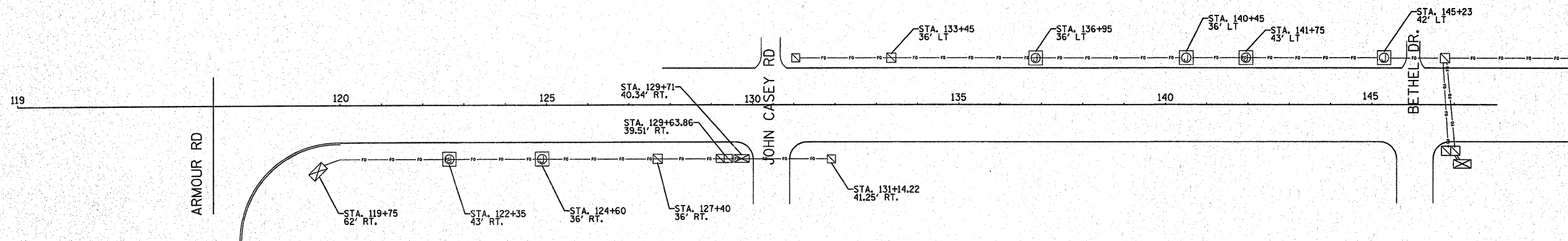
THE CONTRACTOR SHALL SUPPLY AND MOUNT ONE SIGN WITH EACH PEDESTRIAN PUSH-BUTTON AND THIS SHALL BE INCLUDED IN THE COST OF PEDESTRIAN PUSH-BUTTON PAY ITEM.

DRAWING NOT TO SCALE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 330 (US 4552)
MAST ARM AND SIGN DETAILS

FILE NAME =	USER NAME = mofaddenka	DESIGNED -	REVISED -	F.A.P. SECTION COUNTY TOTAL SHEETS SHEET NO. 330 11-00068-00-SP KANKAKEE 16 13 CONTRACT NO. 87514 ILLINOIS FED. AID PROJECT
ci:\pw-work\p1dot\mofaddenka\d8275242\366B68-shd-deta1a.dgn	366B68-shd-deta1a.dgn	DRAWN -	REVISED -	
PLOT SCALE = 49.3827' / 1" =		CHECKED -	REVISED -	
PLOT DATE = 2/18/2012		DATE -	REVISED -	
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.				

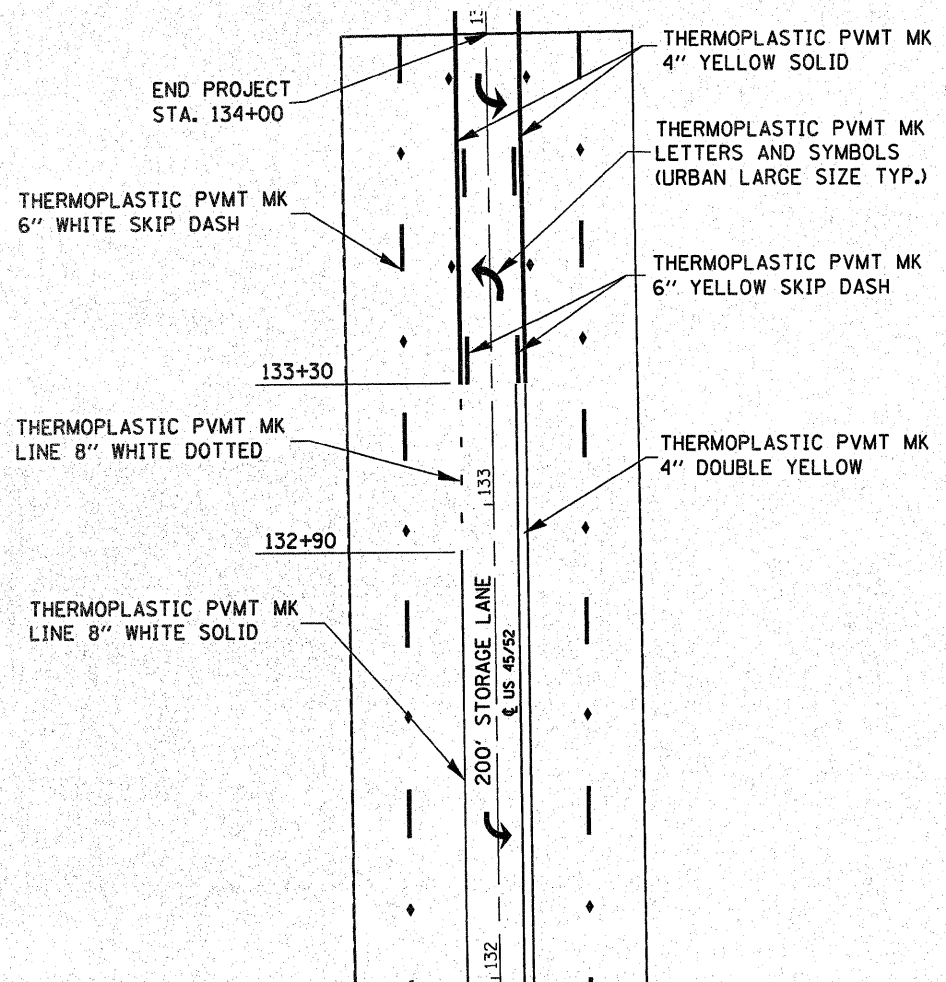


INTERCONNECT PLAN

DETECTOR LOOP INDUCTANCE CHART						
DETECTOR LOOP	PHASE	LOCATION	TURNS PER LOOP	INDUCTNESS READING (MICROHENRIES)	FREQUENCY (HERTZ)	J PIN STATUS
A	6	SB STRB RL & LL	4	562.35	25737	OFF
B	6	SB FAR	6	607.73	24758	ON
C	1	SB LT	4	822.38	21283	ON
D	1	WB RT	4	661.24	23735	ON
E	8	WB RL	4	661.24	23735	ON
F	3	WB LT	4	661.24	23735	ON
G	2	NB STRB RL & LL	4	524.29	26655	OFF
H	2	NB FAR	6	564.5	25688	ON
I	5	NB LT	4	784.29	21793	ON
J	4	EB	4	651.56	23894	ON
K	7	EB LT	4	651.56	23894	ON

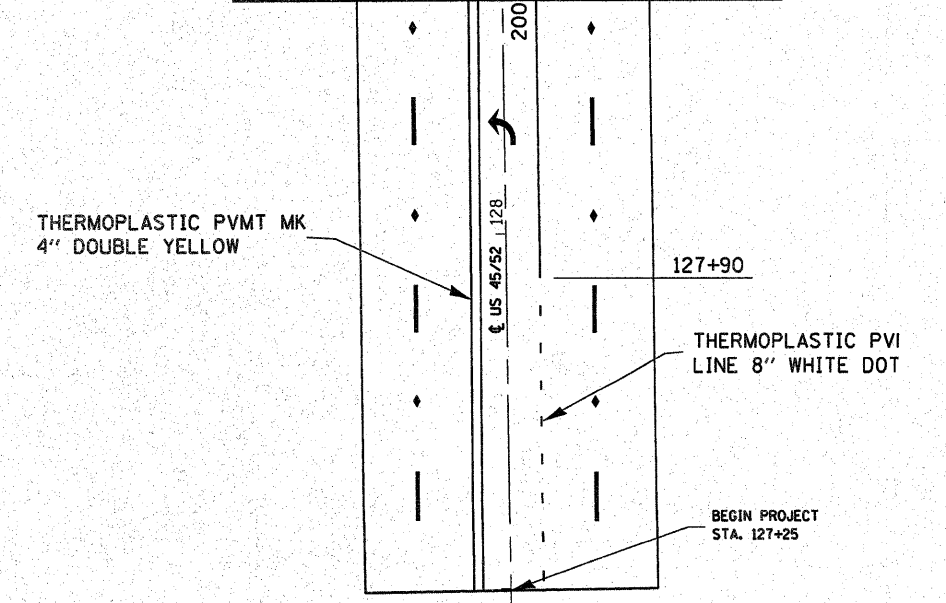
DETECTOR LOOP TYPE I John Casey Dr. / US 45/52	
LOCATION	DETECTOR LOOP TYPE I FOOT
US 45/52 SOUTH	313
ADVANCED SOUTH	60
US 45/52 NORTH	340
ADVANCED NORTH	64
JOHN CASEY DR. WEST	354
JOHN CASEY DR. EAST	530
TOTAL	1661

J PIN STATUS "ON" MEANS STANDARD DETECTOR SETUP. "OFF" MEANS J WIRE HAS BEEN DISCONNECTED, BUT INTACT, AT THE HARNESS PANEL WITH THE NECESSARY SPADE CONNECTION ATTACHED, MARKED, AND INSULATED.

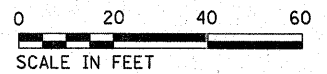
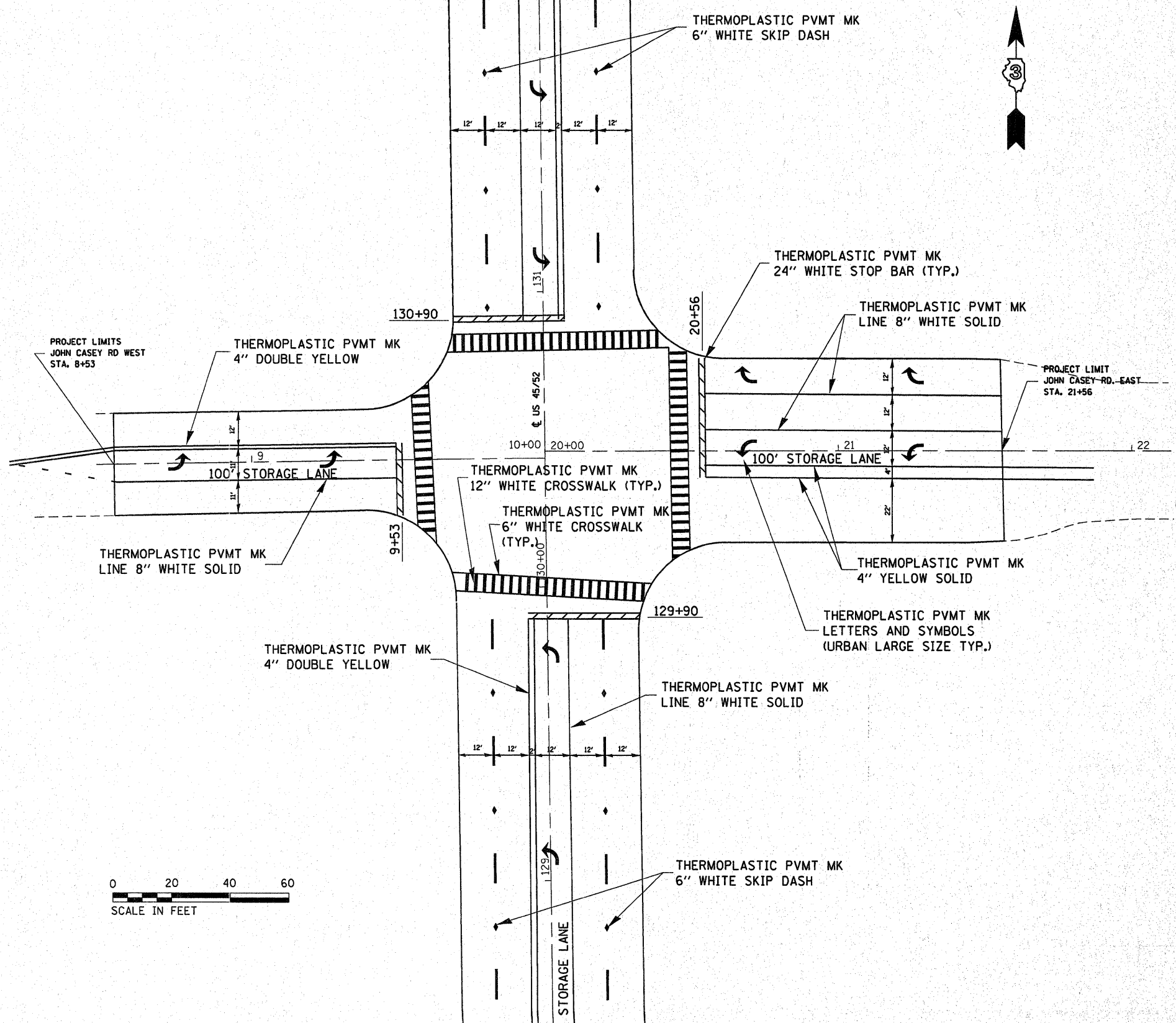


MATCH LINE STA. 132 + 00

MATCH LINE STA. 128 + 50



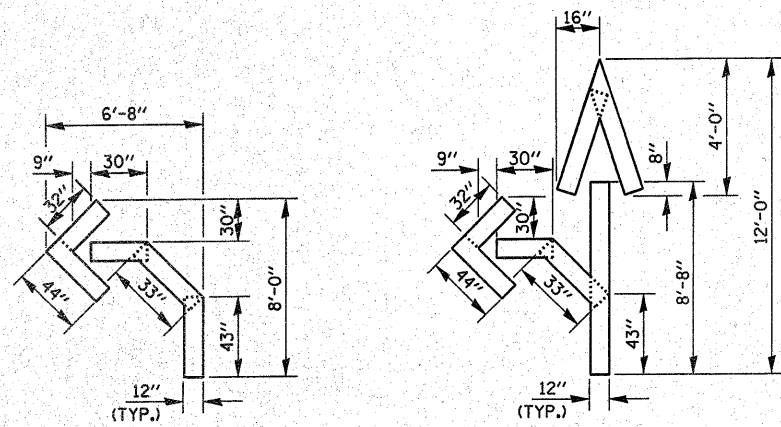
MATCH LINE STA. 132 + 00



MATCH LINE STA. 128 + 50

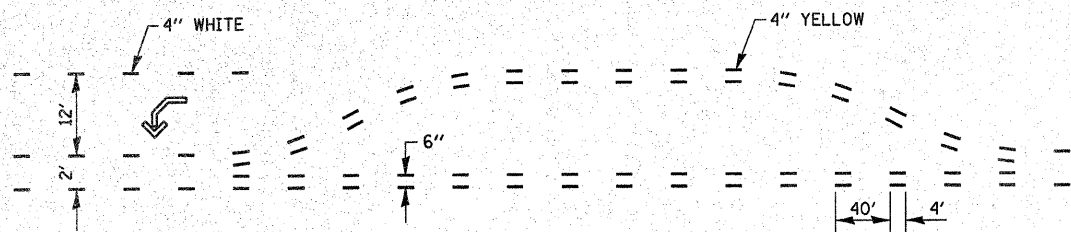


FILE NAME =	USER NAME = mofaddenka	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING SHEET	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pwwork\pwwork\mofaddenka\d0275242\3xxxx-ht-plen.dgn	3xxxx-ht-plen.dgn	DRAWN -	REVISED -			330	11-00068-00-SP	KANKAKEE	16	15	
PLOT SCALE = 20,0000' / in.		CHECKED -	REVISED -			CONTRACT NO. 87514					
PLOT DATE = 2/10/2012		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET OF SHEETS		STA.	TO STA.		

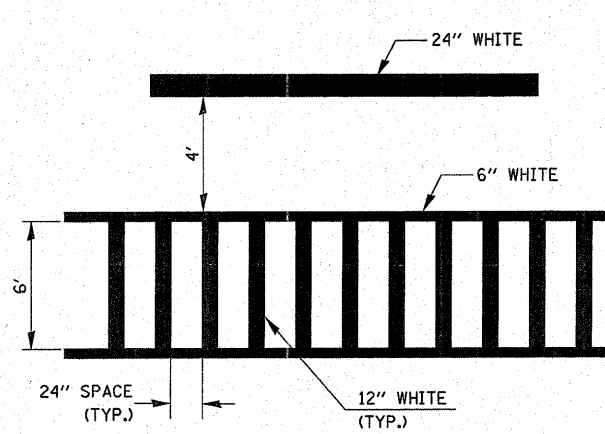


QUANTITY
12" LINE = 16 LIN. FT.
OR 4" LINE = 48 LIN. FT.

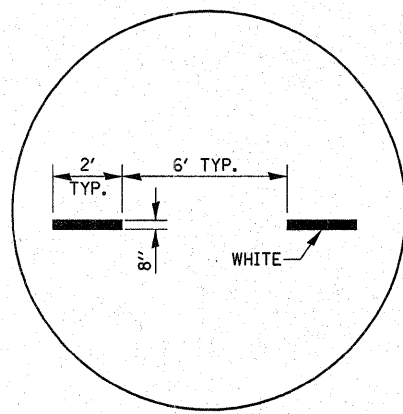
QUANTITY
12" LINE = 29 LIN. FT.
OR 4" LINE = 87 LIN. FT.



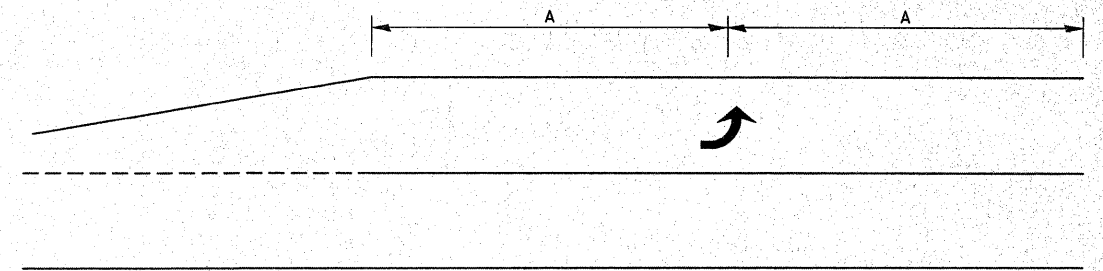
**SHORT-TERM PAVEMENT MARKING
FOR MEDIANS AND ARROWS**



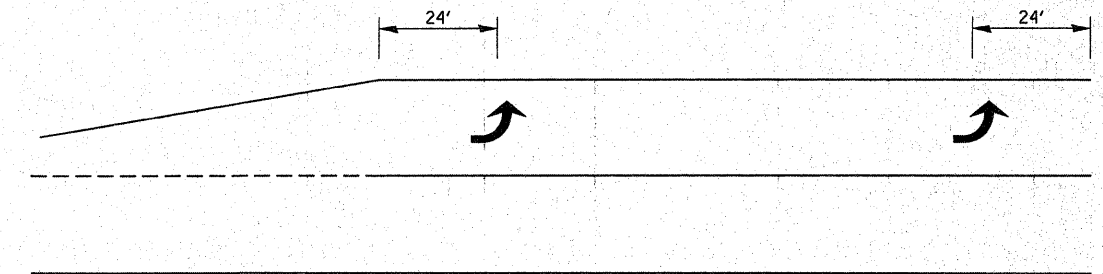
**TYPICAL SPACING DETAIL FOR
CROSSWALKS AND STOP BARS**



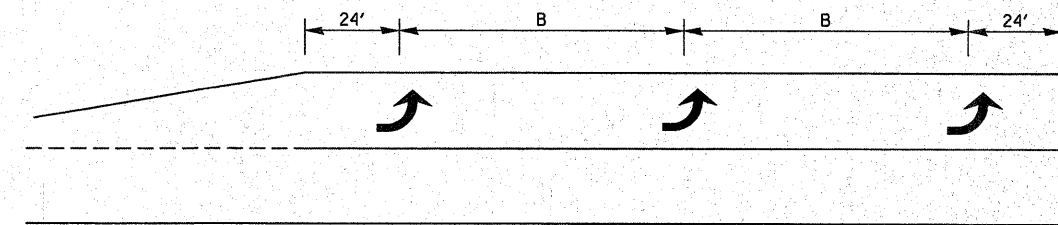
**ADVANCE AND INTERSECTION LANE
DIVIDER LINES**



99' AND UNDER

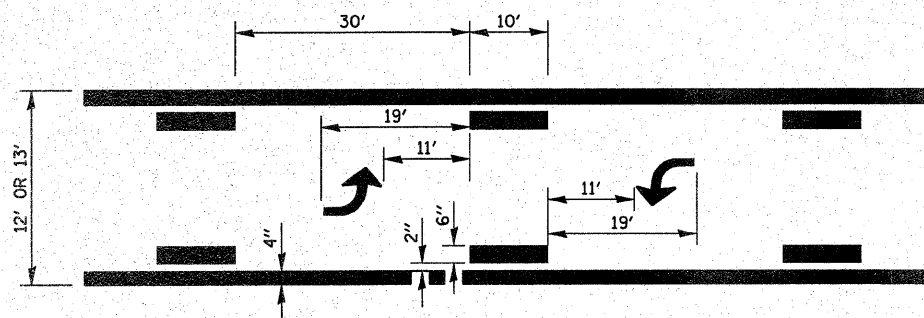


100' TO 149'

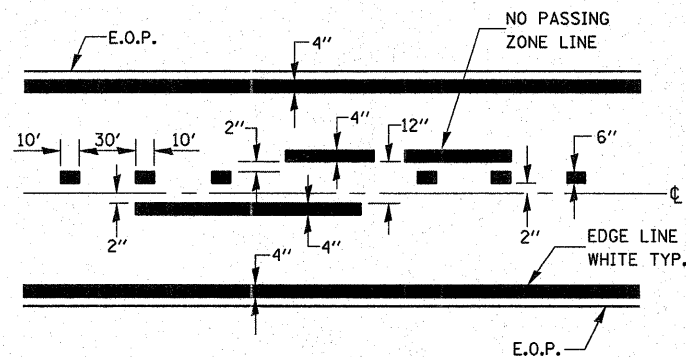


150' AND LONGER

**TYPICAL PLACEMENT OF ARROWS
IN TURN LANES**



**TYPICAL APPLICATION
BI-DIRECTIONAL TURN LANE**



CENTERLINE & NO PASSING
ZONE LINES - YELLOW (SEE TYPICAL SECTIONS)

PAVEMENT MARKING

FILE NAME =	USER NAME = mofaddenka	DESIGNED -	REVISED -
ct:\pwork\p1\dot\mofaddenka\d8275242\3xxxxx-sht-plen.dgn		DRAWN -	REVISED -
	PLOT SCALE = 20.0000' / 1"	CHECKED -	REVISED -
	PLOT DATE = 2/10/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	11-00068-00-SP	KANKAKEE	16	16
CONTRACT NO. 87514			ILLINOIS FED. AID PROJECT	