

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 348: IL 43  
AT 151st STREET

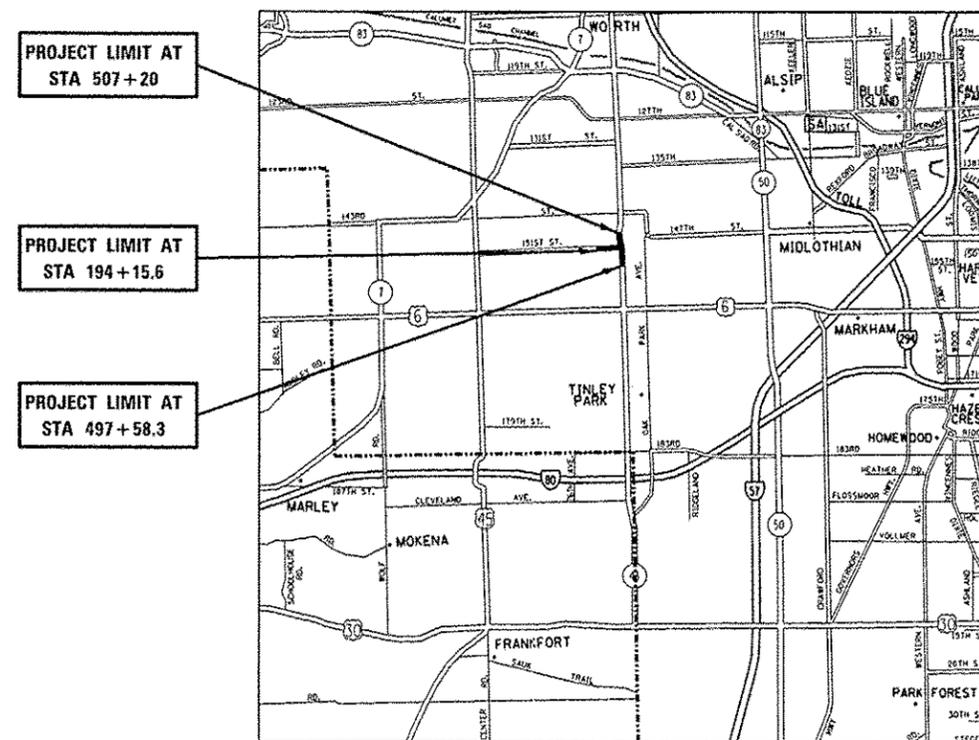
SECTION: (3127-1)N-1(14)

PROJECT: ACCMM-0348(055)

INTERSECTION IMPROVEMENT AND  
TRAFFIC SIGNAL MODERNIZATION  
COOK COUNTY

C-91-234-14

R 12 E      R 13 E



ORLAND TOWNSHIP  
GROSS LENGTH = 1,548 FT. = 0.293 MILE  
NET LENGTH = 1,548 FT. = 0.293 MILE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(3127-1)N-1(14)	COOK	69	1
ILLINOIS		CONTRACT NO. 60X85		

D-91-234-14



LOCATION OF SECTION INDICATED THUS: - [black rectangle]

**TRAFFIC DATA**

IL 43 2013 ADT = 40,500  
IL 43 POSTED SPEED LIMIT = 45 / 40 MPH  
151st ST. 2010 ADT = 14,600  
151st ST. POSTED SPEED LIMIT = 40 MPH

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED *May 11 2015*  
*John F. [Signature]*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

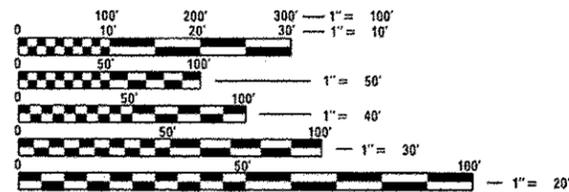
*June 26 2015*  
*John D. Baranzelli, P.E.*  
ENGINEER OF DESIGN AND ENVIRONMENT

*June 26 2015*  
*Omer Cemam, P.E.*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN THE VILLAGE  
OF ORLAND PARK AND UNINCORPORATED  
ORLAND TOWNSHIP IN COOK COUNTY.



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 KARI SMITH (847)-705-4437  
PROJECT MANAGER KEN ENG (847)-705-4247

CONTRACT NO. 60X85

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS
3	GENERAL NOTES
4-9	SUMMARY OF QUANTITIES
10-11	TYPICAL SECTIONS
12-14	SCHEDULE OF QUANTITIES
15	ALIGNMENT, TIES, AND BENCHMARKS
16-17	ROADWAY PLAN AND PROFILE
18-21	MAINTAINENCE OF TRAFFIC
22	EROSION AND SEDIMENT CONTROL PLAN
23-25	SUE SHEETS
26-28	DRAINAGE
29-30	PLAT OF HIGHWAYS
31	PAVEMENT MARKING
32	LANDSCAPING PLAN
33-41	TRAFFIC SIGNAL PLANS
42	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB >= 15' (BD-01)
43	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB <15' (BD-02)
44	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER (BD-7)
45	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-8)
46	CURB AND CUTTER REMOVAL AND REPLACEMENT (BD-24)
47	BUTT JOINT AND HMA TAPER DETAILS (BD-32)
48	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)
49	TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
50	DISTRICT ONE TYPICAL PAVEMENT MARKERS (TC-13)
51	TRAFFIC CONTROL & PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
52	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)
53	ARTERIAL ROAD INFORMATION SIGN (TC-22)
54	DRIVEWAY ENTRANCE SIGNING (TC-26)
55	DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS (TS-02)
56-62	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05)
63-65	ILLINOIS ROUTE 43 CROSS SECTIONS
66-69	151st STREET CROSS SECTIONS

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS & PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-08	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542601-03	REINFORCED CONCRETE PIPE ELBOW 24", 30" OR 36" (600mm, 750mm, OR 900mm)
602001-02	CATCH BASIN TYPE A
602301-04	INLET - TYPE A
602401-03	MANHOLE TYPE A
604001-04	FRAME AND LIDS TYPE 1
604091-03	FRAME AND GRATE TYPE 24
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
630001-10	STEEL PLATE BEAM GUARDRAIL
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701101-04	OFF-RD OPERATIONS, MULTILANE, 15' (4.5m) TO 24' (600mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701426-07	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS >= 45 MPH
701427-03	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS <= 45MPH
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-04	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAIL
780001-05	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
805001-01	ELECTRIC SERVICE INSTALLATIONS DETAILS
814001-03	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
877001-05	STEEL MAST ARM ASSEMBLY AND POLE, 16' THROUGH 55'
878001-10	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BECON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

FILE NAME *	USER NAME * STREATERJR	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS IL ROUTE 43 AT 151st STREET</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pudot\streaterj\60304670\24412-sht-gennote.dgn	DRAWN -	REVISED -	348			(3127-1N-1(14))	COOK	69	2	
PLOT SCALE * 100.0000 / 1 in.	CHECKED -	REVISED -	CONTRACT NO. 60X85							
PLOT DATE * 5/15/2015	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
Default				SCALE:	SHEET OF SHEETS	STA. TO STA.				

GENERAL NOTES

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

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE VILLAGE OF ORLAND PARK.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (OR COMBINATION CURB AND GUTTER (THE TYPE SPECIFIED ON THE PLANS)), WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE ENGINEER SHALL CONTACT MS. PATRICE HARRIS, AREA TRAFFIC FIELD ENGINEER, AT (708) 597-9800 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF CONSTRUCTION.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

FOR FRAMES AND LIDS ADJUSTMENT WITHOUT MILLING, REUSE EXISTING FRAME AND LID UNLESS OTHERWISE SPECIFIED IN THE PLANS.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.

PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND ITS REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.

WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2 INCHES (40 mm) WHERE THE SPEED LIMIT IS 40 MPH (80 km/h) OR LESS AND 1 INCH (25 mm) WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH (80 km/h). WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 mm) 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) ACCORDING TO THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

THE CONTRACTOR SHALL MAINTAIN ALL MONITORING/INSPECTION WELLS DURING CONSTRUCTION ACTIVITIES.

THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF THE EXISTING LIGHT POLE FOUNDATION WITH THE VILLAGE OF ORLAND PARK.

THE CONTRACTOR SHALL CONSTRUCT THE PORTLAND CEMENT SIDEWALKS THROUGH THE DRIVEWAYS.

THE TEMPORARY THERMOPLASTIC PLASTIC PAVEMENT MARKINGS SHALL BE PLACED IN THE SAME LOCATION AS THE PROPOSED THERMOPLASTIC PAVEMENT MARKINGS.

FILE NAME :	USER NAME : STREATERJR	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\p\work\p\dot\streaterjr\03046701\24412-shi-gannote.dgn		DRAWN -	REVISED -		348	(3127-1N-1114)	COOK	69	3				
PLOT SCALE * 100.0000 * / in.		CHECKED -	REVISED -		CONTRACT NO. 60X85								
Default		DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE							
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 80% FED 20% STATE ROADWAY	0021 80% FED 13.33% ST 6.67% ORL PK T. SIGNALS	0021 100% ORL PK FIRE DIST EVP	0021 100% ORL PK, LIGHTING			CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 80% FED 20% STATE ROADWAY	0021 80% FED 13.33% ST 6.67% ORL PK T. SIGNALS	0021 100% ORL PK FIRE DIST EVP	0021 100% ORL PK, LIGHTING			
20101100	TREE TRUNK PROTECTION	EACH	3	3						28000305	TEMPORARY DITCH CHECKS	FOOT	84	84						
20200100	EARTH EXCAVATION	CU YD	255	255						28000400	PERIMETER EROSION BARRIER	FOOT	1260	1260						
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	762	762						28000510	INLET FILTERS	EACH	35	35						
20400800	FURNISHED EXCAVATION	CU YD	327	327						30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	1902	1902						
20800150	TRENCH BACKFILL	CU YD	24	24						35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	40	40						
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	196	196						35501318	HOT-MIX ASPHALT BASE COURSE, 8 1/2"	SQ YD	546	546						
25000210	SEEDING, CLASS 2A	ACRE	0.3	0.3						40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3686	3686						
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	41	41						40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	6	6						
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	41	41						40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	127	127						
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	41	41						40603085	HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N70	TON	837	837						
25003115	INTERSEEDING, CLASS 1B	ACRE	0.1	0.1						40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	1	1						
25100630	EROSION CONTROL BLANKET	SQ YD	1414	1414						40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	371	371						
25100900	TURF REINFORCEMENT MAT	SQ YD	235	235						42101300	PROTECTIVE COAT	SQ YD	941	941						
25200110	SOODING, SALT TOLERANT	SQ YD	381	381																
25200200	SUPPLEMENTAL WATERING	UNIT	4	4																

FILE NAME :	USER NAME : STREATER	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\p\work\p\stred\stred\j\0304670\PI2442.dwg		DRAWN -	REVISED -			348	(3127-DN-1(14))	COOK	69	4	
PLOT SCALE : 1/8" = 1'-0"		CHECKED -	REVISED -			CONTRACT NO. 60X85					
PLOT DATE : 5/15/2005		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

15



URBAN

URBAN

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 80% FED 20% STATE ROADWAY	0021 80% FED 13.33% ST 6.67% ORL PK T. SIGNALS	0021 100% ORL PK FIRE DIST EVP	0021 100% ORL PK, LIGHTING
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	863	863			
63200310	GUARDRAIL REMOVAL	FOOT	404	404			
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	200	200			
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1			
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12			
67100100	MOBILIZATION	L SUM	1	1			
67201100	SEALING ABANDONED MONITORING WELLS	EACH	5	5			
70300100	SHORT TERM PAVEMENT MARKING	FOOT	350	350			
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	364	364			
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	720	720			
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	914	914			
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	37	37			
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	75	75			
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	5195	5195			

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 80% FED 20% STATE ROADWAY	0021 80% FED 13.33% ST 6.67% ORL PK T. SIGNALS	0021 100% ORL PK FIRE DIST EVP	0021 100% ORL PK, LIGHTING
70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	39	39			
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	2822	2822			
* 72000100	SIGN PANEL - TYPE 1	SQ FT	28	16	12		
* 72000200	SIGN PANEL - TYPE 2	SQ FT	39	11	28		
* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2			
* 72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2			
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	65	65			
* 73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	4	4			
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	364	364			
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	720	720			
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	914	914			
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	37	37			
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	75	75			
							* - SPECIALTY ITEMS

15

FILE NAME =	USER NAME = STREATERUP	DESIGNED -	REVISED -
C:\pwworking\1001312601\1003046101\12442111-502291		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO. OF	SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(3127-UN-1014)	COOK	69	6
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES				URBAN CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES				URBAN CONSTRUCTION TYPE CODE							
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 80% FED 20% STATE ROADWAY	0021 80% FED 13.33% ST 6.67% ORL PK T. SIGNALS	0021 100% ORL PK FIRE DIST EVP	0021 100% ORL PK, LIGHTING			CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 80% FED 20% STATE ROADWAY	0021 80% FED 13.33% ST 6.67% ORL PK T. SIGNALS	0021 100% ORL PK FIRE DIST EVP	0021 100% ORL PK, LIGHTING			
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	9	9						87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3098		3098					
78300100	PAVEMENT MARKING REMOVAL	SO FT	554	554						87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	611			611				
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1					87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2148		2148					
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	880		880					87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	309		309					
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	32		32					87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1199		1199					
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	113		113					87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	74		74					
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	235		235					87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	574		574					
81400100	HANDHOLE	EACH	6		6					87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1		1					
81400200	HEAVY-DUTY HANDHOLE	EACH	2		2					87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1		1					
81400300	DOUBLE HANDHOLE	EACH	1		1					87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1		1					
84200804	REMOVAL OF POLE FOUNDATION	EACH	1				1													
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1		1															
86400100	TRANSCEIVER - FIBER OPTIC	EACH	1		1															

\* - SPECIALTY ITEMS

FILE NAME :	USER NAME : STREATERJR	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
61pw_wark\pvt\stredr\j\0504670\12442.dwg	DRAWN -	REVISED -	348			(3127-UN-1(14)	COOK	69	7	
PLOT SCALE : 100,0000' / 1"	CHECKED -	REVISED -	CONTRACT NO. 60X85							
PLOT DATE : 5/15/2015	DATE -	REVISED -	SCALE:			SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES				URBAN CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES				URBAN CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 80% FED 20% STATE ROADWAY	0021 80% FED 13.33% ST 6.67% ORL PK T. SIGNALS	0021 100% ORL PK FIRE DIST EVP	0021 100% ORL PK, LIGHTING	CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 80% FED 20% STATE ROADWAY	0021 80% FED 13.33% ST 6.67% ORL PK T. SIGNALS	0021 100% ORL PK FIRE DIST EVP	0021 100% ORL PK, LIGHTING		
87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1		1			* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	3			3			
87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1		1			* 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1				
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	8		8			* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3098		3098				
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4			* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1				
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	35		35			* 89502380	REMOVE EXISTING HANDHOLE	EACH	8		8				
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6		6			* 89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1		1				
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4		4			* 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	7		7				
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3		3			* K0026830	SHRUB REMOVAL	EACH	12	12					
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	7		7			* X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	611			611			
88500100	INDUCTIVE LOOP DETECTOR	EACH	8		8			* X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	3098		3098				
88600100	DETECTOR LOOP, TYPE I	FOOT	527		527			* X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3			3			
88700200	LIGHT DETECTOR	EACH	3			3		* X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1		1				
								X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	5	5					
								X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	300	300			* SPECIALTY ITEMS		

NP - 100% STATE

FILE NAME :	USER NAME : STREATERJR	DESIGNED -	REVISED -
C:\pwork\pwork\stredar\14030467D\P12442.dwg		DRAWN -	REVISED -
PLOT SCALE : 1000000 / 16		CHECKED -	REVISED -
PLOT DATE : 5/15/2015		DATE -	REVISED -

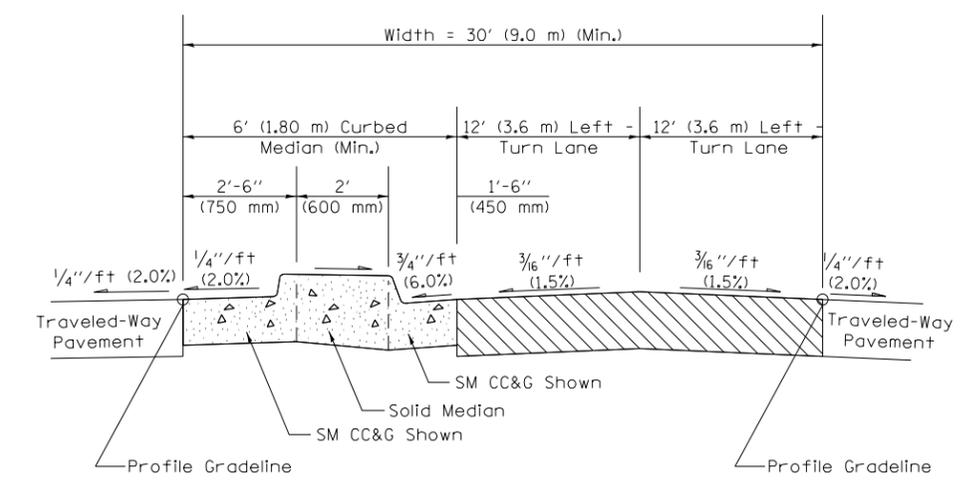
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE:		348	(3127-1N-1(14))	COOK	69	8
SHEET NO. OF SHEETS STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CONTRACT NO. 60X85				



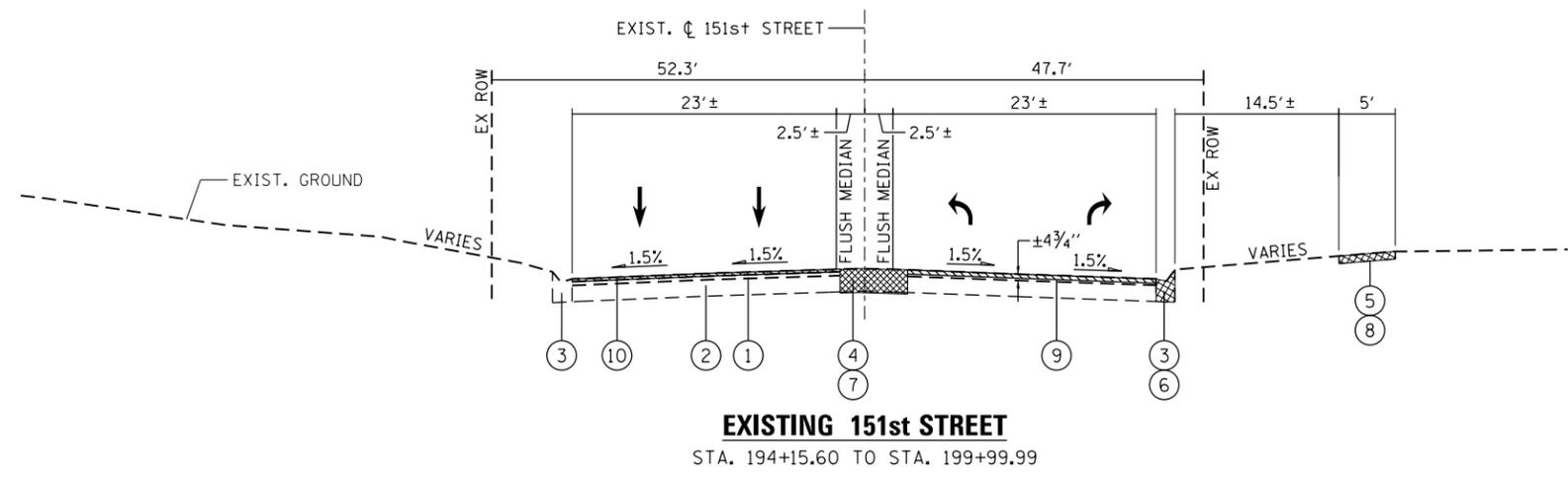
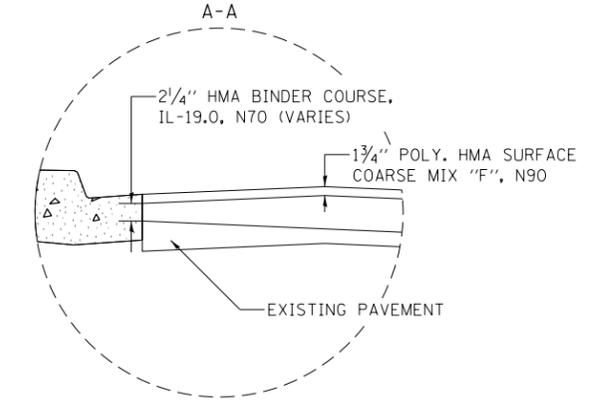


MEDIAN DETAIL

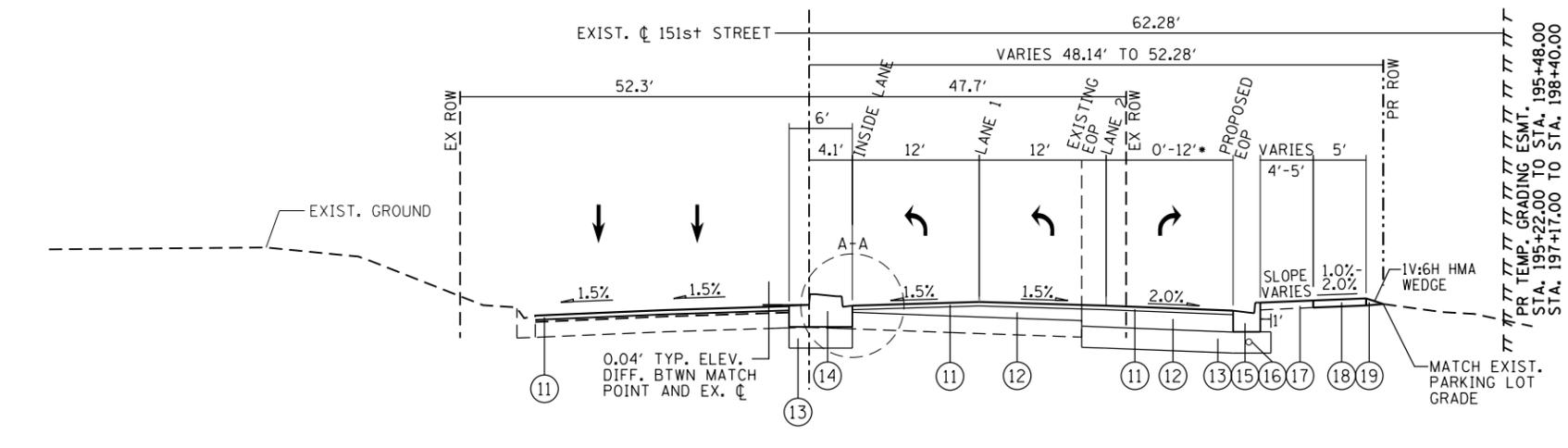


TYPICAL SECTION WITH DUAL LEFT-TURN LANES  
(Raised-Curb Median and Posted Speed < 50 mph (80 km/h))

EDGE OF PAVEMENT DETAIL



**EXISTING 151st STREET**  
STA. 194+15.60 TO STA. 199+99.99



**PROPOSED 151st STREET**  
STA. 194+15.60 TO STA. 195+90

(WITHIN THESE STATION LIMITS THE WATER SHOULD DRAIN TOWARDS THE PROPOSED EDGE OF PAVEMENT)  
STA. 196+00 TO STA. 199+40  
(WITHIN THESE STATION LIMITS THE WATER SHOULD DRAIN TOWARDS THE PROPOSED EDGE OF MEDIAN ENDING AT THE EDGE OF LANE ONE)  
STA. 199+50 TO STA. 199+70  
(WITHIN THESE STATION LIMITS THE WATER SHOULD DRAIN TOWARDS THE PROPOSED EDGE OF PAVEMENT)

**LEGEND**

- ① HMA SURFACE COURSE ± 4 3/4"
- ② HMA BASE COURSE ± 1 1/2"
- ③ B-6.12 CURB & GUTTER
- ④ FLUSH MEDIAN
- ⑤ EXIST. SIDEWALK
- ⑥ CURB & GUTTER REMOVAL
- ⑦ PAVEMENT REMOVAL
- ⑧ SIDEWALK REMOVAL
- ⑨ 4" PAVEMENT REMOVAL
- ⑩ 1 3/4" PAVEMENT REMOVAL
- ⑪ 1 3/4" POLYMERIZED HMA SURFACE COURSE MIX "F", N90
- ⑫ HMA BINDER COURSE, IL 19.0, N70 (8 1/2" AND VARIES)
- ⑬ 12" AGGREGATE SUBGRADE IMPROVEMENT
- ⑭ PROP. SOLID MEDIAN (SEE DETAIL)
- ⑮ PROP. B-6.12 CURB & GUTTER
- ⑯ PROP. 4" PIPE UNDERDRAIN (STA. 196+50 TO 199+00) \*\*\*
- ⑰ 6" TOPSOIL EXCAVATION AND PLACEMENT AND SODDING, SALT TOLERANT
- ⑱ SIDEWALK - SLOPE AT 1.0% FROM STA. 195+85.00 TO 196+45.64, 2.0% SLOPE THEREAFTER.
- ⑲ 1V:6H HMA WEDGE (TO MATCH EXIST. PARKING LOT GRADE)

- TAPERS FROM 12' TO 0' FROM 194+56.41 TO 196+31.41
- CORES AT 196+50 SHOW 11 3/4" PCC BASE COURSE AND ALL OTHER CORES FOR 151ST STREET INDICATE HMA BASE COURSE
- ALL PIPE UNDERDRAINS SHALL BE PLACED AT A DEPTH OF 30" BELOW THE TOP OF THE PROPOSED PAVEMENT OR AS DEEP AS POSSIBLE AND IN ACCORDANCE WITH CHECK SHEET #19 OF THE SUPPLEMENTAL SPECIFICATIONS AND REOCCURRING SPECIAL PROVISIONS. THE COST OF MAKING PIPE UNDERDRAIN CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF PIPE UNDERDRAINS ITEM.

FILE NAME = c:\pwr\work\pwr\151st\151st\151st.dgn

USER NAME = STREATERJR	DESIGNED - BCA	REVISED - 10/05/12
	DRAWN - BCA	REVISED - 12/4/12
PLOT SCALE = 800.0000' / in.	CHECKED - MMO	REVISED - 4/11/13
PLOT DATE = 5/15/2015	DATE - 8/02/12	REVISED -

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

<b>IL ROUTE 43 AT 151st STREET</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>TYPICAL SECTIONS - 151st STREET</b>		348	(3127-1N-1(14)	COOK	69	11
SCALE: N.T.S.		SHEET 2 OF 2 SHEETS		STA. 499+10.11 TO STA. 505+58.55		CONTRACT NO. 60X85
ILLINOIS FED. AID PROJECT						

## SCHEDULE OF QUANTITIES (EARTHWORK)

1	2	3	4	5	6	7
Project	Earth Excavation (Cu. Yd.)	Unsuitable Material (Cu. Yd.)	Embankment (Cu. Yd.)	Adjustment for Shrinkage (Cu. Yd.)	Earthwork Balance (Cu. Yd.)	Top Soil Excavation and Placement (Cu. Yd)
151st Street, STA 194+16 to STA 199+68	131	320	127	111	-16	24
IL 43, STA 497+58 to STA 507+20	123	442	416	105	-311	171
Total	254	761	543	216	-327	196

<b>Column 1:</b> Location from plans	<b>Column 5:</b> Earth excavation that is to be used as fill material in the embankment, shrinkage factor was determined to be 15%.
<b>Column 2:</b> Cut quantities from cross section, which does not include unsuitable material.	
<b>Column 3:</b> Cut material that is determined to be either unstable or unsuitable from use in embankment. (Top soil excavated at 12" (600 mm) average depth.)	<b>Column 6:</b> Column 5 - Column 4, positive quantity = extra excavation, negative quantity = furnished excavation needed.
<b>Column 4:</b> Quantities from Cross sections (Fill).	<b>Column 7:</b> Topsoil Excavation and Placement = (Area of sodding X Depth of Soil)

NOTES

1. TOPSOIL SHALL TO BE A DEPTH OF 6" THROUGHOUT THE PROJECT LIMITS.
2. EXCAVATED TOPSOIL REQUIRED AT LOCATIONS OF NEW SOD AS SHOWN ON THE LANDSCAPING PLAN SHALL BE PLACED AT A DEPTH OF 4" AND PAID FOR AS TOPSOIL EXCAVATION AND PLACEMENT.
- 3 EXCAVATED TOPSOIL NOT REQUIRED ON THE PROJECT SHALL BE CONSIDERED UNSUITABLE MATERIAL AND PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL.

STATION	EX ELV(after 4" mill) PR ELV (before prop. Surface course)	PROP. SLOPE OF INSIDE TURN LANE	Inside lane	LANE 1	EXISTING	PROPOSED
			(4' off CL) ELEVATION	ELEVATION	ELEVATION	ELEVATION
195+00	EXISTING	-1.500%	714.84	714.62	714.34	
	<b>PROPOSED</b>	<b>-1.500%</b>	<b>715.02</b>	<b>714.80</b>	<b>714.57</b>	<b>714.47</b>
195+10	EXISTING	-1.500%	714.49	714.27	713.99	
	<b>PROPOSED</b>	<b>-1.500%</b>	<b>714.67</b>	<b>714.45</b>	<b>714.22</b>	<b>714.10</b>
195+20	EXISTING	-1.500%	714.13	713.91	713.64	
	<b>PROPOSED</b>	<b>-1.500%</b>	<b>714.32</b>	<b>714.09</b>	<b>713.87</b>	<b>713.74</b>
195+30	EXISTING	-1.500%	713.78	713.56	713.29	
	<b>PROPOSED</b>	<b>-1.500%</b>	<b>713.97</b>	<b>713.74</b>	<b>713.52</b>	<b>713.37</b>
195+35	EXISTING	-1.500%	713.61	713.39	713.12	
	<b>PROPOSED</b>	<b>-1.500%</b>	<b>713.79</b>	<b>713.56</b>	<b>713.34</b>	<b>713.19</b>
195+40	EXISTING	-1.500%	713.43	713.21	712.94	
	<b>PROPOSED</b>	<b>-1.375%</b>	<b>713.62</b>	<b>713.41</b>	<b>713.20</b>	<b>713.04</b>
195+50	EXISTING	-1.500%	713.08	712.86	712.60	
	<b>PROPOSED</b>	<b>-1.125%</b>	<b>713.29</b>	<b>713.12</b>	<b>712.91</b>	<b>712.74</b>
195+60	EXISTING	-1.500%	712.73	712.51	712.25	
	<b>PROPOSED</b>	<b>-0.875%</b>	<b>712.96</b>	<b>712.82</b>	<b>712.63</b>	<b>712.45</b>
195+70	EXISTING	-1.500%	712.38	712.16	711.91	
	<b>PROPOSED</b>	<b>-0.625%</b>	<b>712.63</b>	<b>712.53</b>	<b>712.34</b>	<b>712.15</b>
195+80	EXISTING	-1.500%	712.03	711.82	711.56	
	<b>PROPOSED</b>	<b>-0.375%</b>	<b>712.29</b>	<b>712.23</b>	<b>712.06</b>	<b>711.85</b>
195+90	EXISTING	-1.500%	711.68	711.47	711.21	
	<b>PROPOSED</b>	<b>-0.125%</b>	<b>711.96</b>	<b>711.94</b>	<b>711.77</b>	<b>711.56</b>
196+00	EXISTING	-1.500%	711.33	711.12	710.87	
	<b>PROPOSED</b>	<b>0.125%</b>	<b>711.63</b>	<b>711.64</b>	<b>711.49</b>	<b>711.26</b>
196+10	EXISTING	-1.500%	710.91	710.70	710.45	
	<b>PROPOSED</b>	<b>0.375%</b>	<b>711.21</b>	<b>711.24</b>	<b>711.09</b>	<b>710.86</b>
196+20	EXISTING	-1.500%	710.49	710.28	710.04	
	<b>PROPOSED</b>	<b>0.625%</b>	<b>710.80</b>	<b>710.84</b>	<b>710.69</b>	<b>710.45</b>
196+30	EXISTING	-1.500%	710.07	709.86	709.63	
	<b>PROPOSED</b>	<b>0.875%</b>	<b>710.38</b>	<b>710.44</b>	<b>710.29</b>	<b>710.05</b>
196+40	EXISTING	-1.500%	709.65	709.44	709.22	
	<b>PROPOSED</b>	<b>1.125%</b>	<b>709.96</b>	<b>710.04</b>	<b>709.89</b>	<b>709.65</b>
196+50	EXISTING	-1.500%	709.23	709.02	708.81	
	<b>PROPOSED</b>	<b>1.375%</b>	<b>709.55</b>	<b>709.64</b>	<b>709.49</b>	<b>709.24</b>
196+55	EXISTING	-1.500%	709.02	708.81	708.60	
	<b>PROPOSED</b>	<b>1.500%</b>	<b>709.34</b>	<b>709.44</b>	<b>709.29</b>	<b>709.04</b>

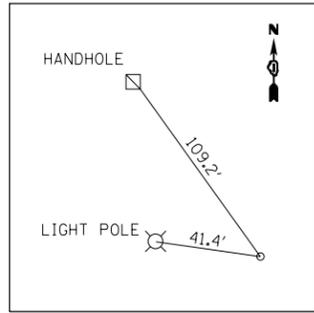
STATION	EX ELV(after 4" mill) PR ELV (before prop. Surface course)	PROP. SLOPE OF INSIDE TURN LANE	Inside lane	LANE 1	EXISTING	PROPOSED
			(4' off CL) ELEVATION	ELEVATION	ELEVATION	ELEVATION
196+60	EXISTING	-1.500%	708.81	708.60	708.39	
	<b>PROPOSED</b>	<b>1.500%</b>	<b>709.13</b>	<b>709.24</b>	<b>709.09</b>	<b>708.84</b>
196+70	EXISTING	-1.500%	708.39	708.18	707.98	
	<b>PROPOSED</b>	<b>1.500%</b>	<b>708.71</b>	<b>708.84</b>	<b>708.69</b>	<b>708.43</b>
196+80	EXISTING	-1.500%	707.97	707.76	707.57	
	<b>PROPOSED</b>	<b>1.500%</b>	<b>708.29</b>	<b>708.43</b>	<b>708.28</b>	<b>708.02</b>
196+90	EXISTING	-1.500%	707.56	707.34	707.16	
	<b>PROPOSED</b>	<b>1.500%</b>	<b>707.87</b>	<b>708.03</b>	<b>707.88</b>	<b>707.62</b>
197+00	EXISTING	-1.500%	707.14	706.92	706.75	
	<b>PROPOSED</b>	<b>1.500%</b>	<b>707.45</b>	<b>707.63</b>	<b>707.48</b>	<b>707.21</b>
197+10	EXISTING	-1.500%	706.81	706.60	706.42	
	<b>PROPOSED</b>	<b>1.500%</b>	<b>707.13</b>	<b>707.31</b>	<b>707.16</b>	<b>706.89</b>
197+20	EXISTING	-1.500%	706.49	706.28	706.09	
	<b>PROPOSED</b>	<b>1.500%</b>	<b>706.81</b>	<b>706.99</b>	<b>706.84</b>	<b>706.57</b>
197+30	EXISTING	-1.500%	706.17	705.97	705.76	
	<b>PROPOSED</b>	<b>1.500%</b>	<b>706.49</b>	<b>706.67</b>	<b>706.52</b>	<b>706.25</b>
197+36	EXISTING	1.500%	705.98	705.78	705.57	
	<b>PROPOSED</b>	<b>1.500%</b>	<b>706.30</b>	<b>706.48</b>	<b>706.33</b>	<b>706.06</b>
197+40	EXISTING	1.500%	705.85	705.66	705.44	
	<b>PROPOSED</b>	<b>1.500%</b>	<b>706.18</b>	<b>706.36</b>	<b>706.21</b>	<b>705.94</b>
197+50	EXISTING	1.500%	705.54	705.35	705.12	
	<b>PROPOSED</b>	<b>1.500%</b>	<b>705.86</b>	<b>706.04</b>	<b>705.89</b>	<b>705.62</b>
197+60	EXISTING	1.500%	705.23	705.05	704.80	
	<b>PROPOSED</b>	<b>1.500%</b>	<b>705.55</b>	<b>705.73</b>	<b>705.58</b>	<b>705.31</b>
197+70	EXISTING	1.500%	704.91	704.75	704.48	
	<b>PROPOSED</b>	<b>1.500%</b>	<b>705.24</b>	<b>705.42</b>	<b>705.27</b>	<b>705.00</b>
197+80	EXISTING	1.500%	704.60	704.44	704.16	
	<b>PROPOSED</b>	<b>1.500%</b>	<b>704.93</b>	<b>705.11</b>	<b>704.96</b>	<b>704.69</b>
197+90	EXISTING	1.500%	704.29	704.14	703.85	
	<b>PROPOSED</b>	<b>1.500%</b>	<b>704.61</b>	<b>704.79</b>	<b>704.64</b>	<b>704.37</b>
198+00	EXISTING	1.500%	703.98	703.84	703.53	
	<b>PROPOSED</b>	<b>1.500%</b>	<b>704.30</b>	<b>704.48</b>	<b>704.33</b>	<b>704.06</b>
198+10	EXISTING	1.500%	703.82	703.68	703.38	
	<b>PROPOSED</b>	<b>1.500%</b>	<b>704.15</b>	<b>704.31</b>	<b>704.16</b>	<b>703.89</b>
198+20	EXISTING	1.500%	703.67	703.52	703.23	
	<b>PROPOSED</b>	<b>1.500%</b>	<b>703.99</b>	<b>704.15</b>	<b>704.00</b>	<b>703.73</b>

NOTES:

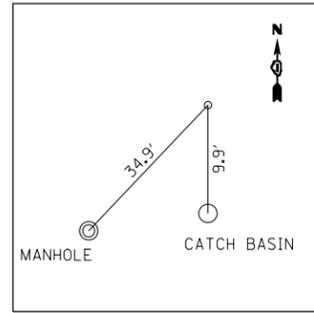
EXISTING ELEVATIONS DENOTE THE ELEVATION OF PAVEMENT  
AFTER A 4" SURFACE REMOVAL AND THE PROPOSED ELEVATION IS  
THE ELEVATION AFTER THE HOT-MIX ASPHALT BINDER IS PLACED.

FILE NAME =	USER NAME = STREATERJR	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES IL ROUTE 43 AT 151st STREET</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
ct:\pw\work\p\id\streater_jr\0304670\24412-sh-t-schedule.dgn	DRAWN -	REVISED -	348			(3127-1N-1(14)	COOK	69	13			
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 60X85						
	PLOT DATE = 5/15/2015	DATE -	REVISED -			ILLINOIS FED. AID PROJECT						
						SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.

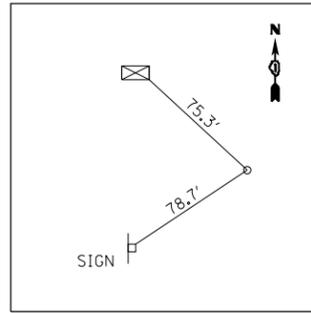




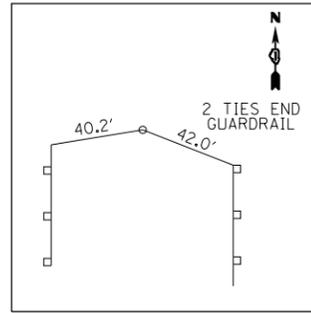
**POINT #109**  
MAG NAIL IN MEDIAN  
IL 43 SOUTH  
N 1802507.466  
E 1131580.772



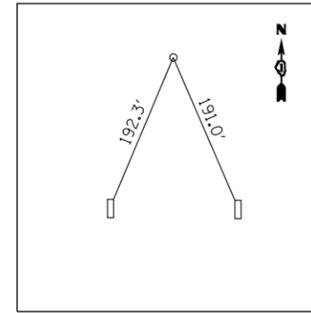
**POINT #103**  
MAG NAIL IN MEDIAN  
IL 43 SOUTH  
N 1803045.012  
E 1131563.907



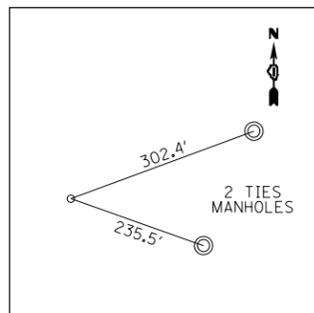
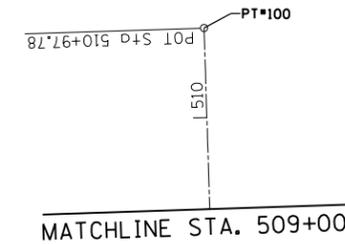
**POINT #107**  
MAG NAIL C-C  
IL 43 & 151st ST.  
N 1803506.943  
E 1131548.745



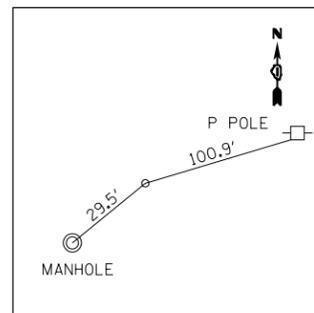
**POINT #101**  
MAG NAIL MEDIAN  
IL 43 NORTH  
N 1804021.620  
E 1131532.502



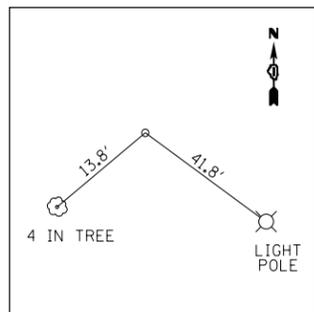
**POINT #100**  
MAG NAIL IN MEDIAN  
IL 43 NORTH  
N 1804604.159  
E 1131513.586



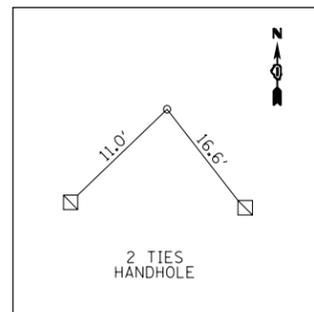
**POINT #108**  
MAG NAIL  
151st ST. WEST  
N 1803460.202  
E 1130363.475



**POINT #106**  
MAG NAIL  
151st ST. WEST ANGLE POINT  
N 1803474.371  
E 1130619.570



**CP #2**  
IRON ROD W/ CAP  
S. SIDE 151st ST. ±750 W. IL 43  
N 1803454.372  
E 1130891.104

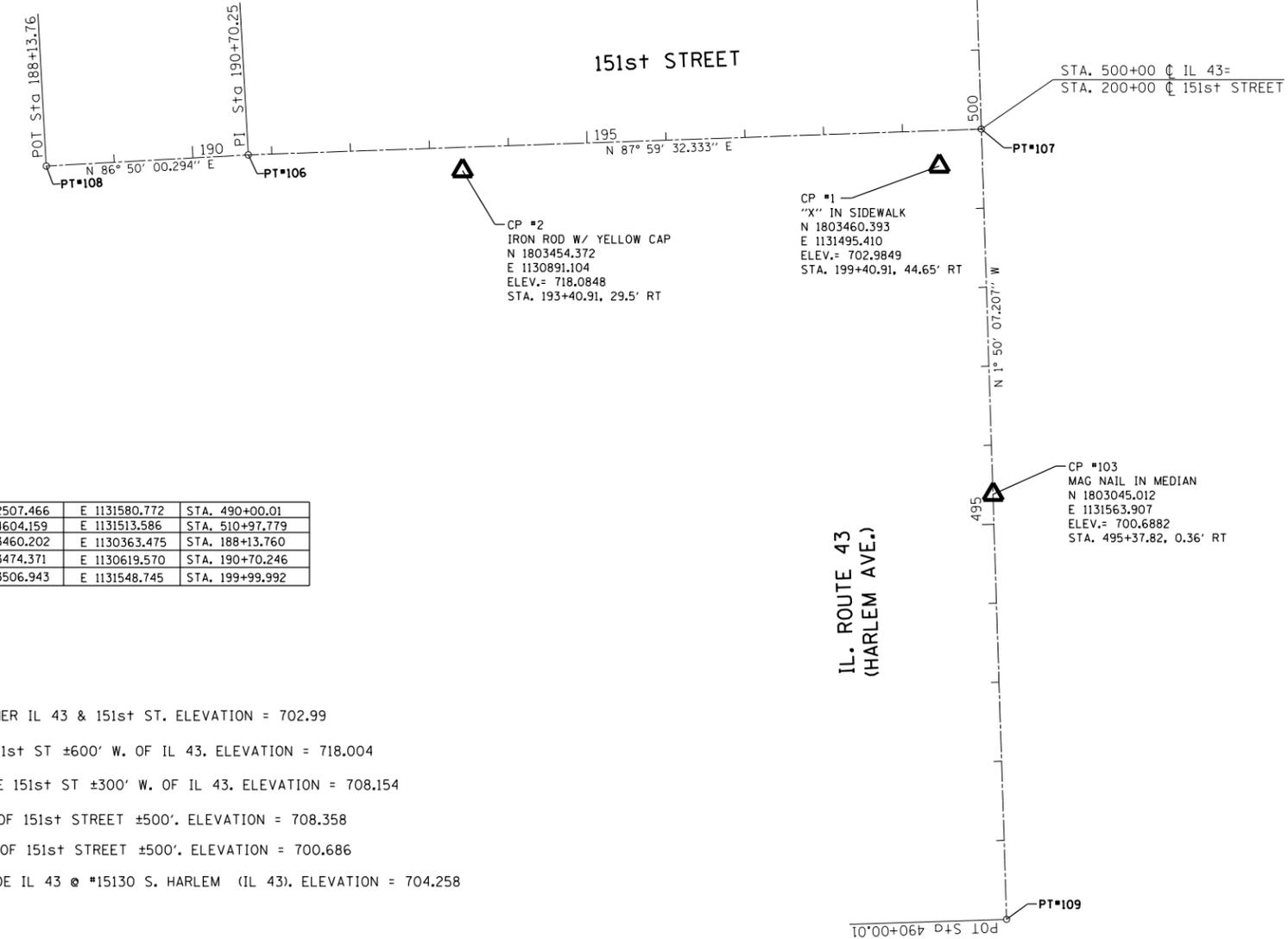


**CP #1**  
"X" IN S.W. IN SOUTHWEST  
CORNER 151st ST. & IL 43  
N 1803460.393  
E 1131495.410

IL. 43	PT#	N	E	STA.
	PT# 109	N 1802507.466	E 1131580.772	STA. 490+00.01
	PT# 100	N 1804604.159	E 1131513.586	STA. 510+97.779
151st STREET	PT# 108	N 1803460.202	E 1130363.475	STA. 188+13.760
	PT# 106	N 1803474.371	E 1130619.570	STA. 190+70.246
	PT# 107	N 1803506.943	E 1131548.745	STA. 199+99.992

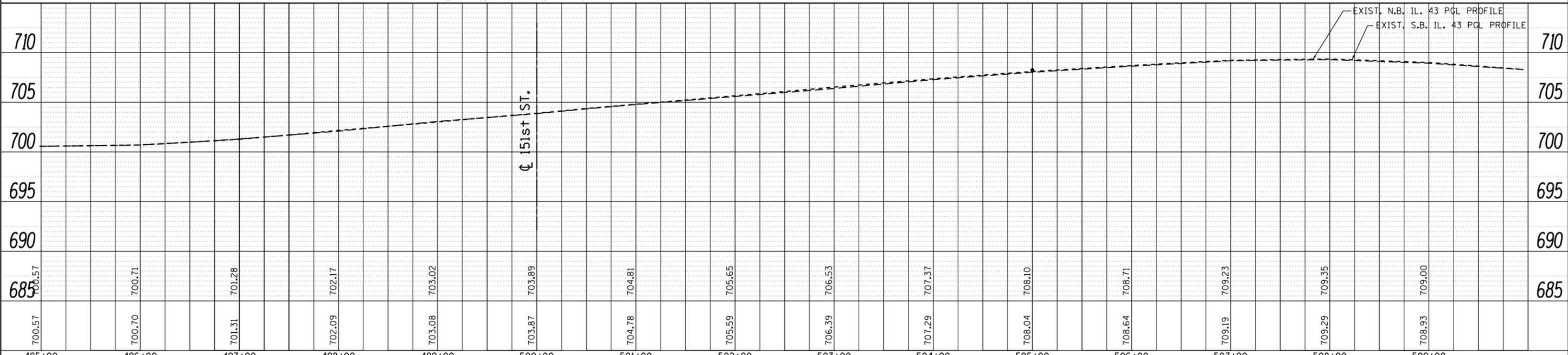
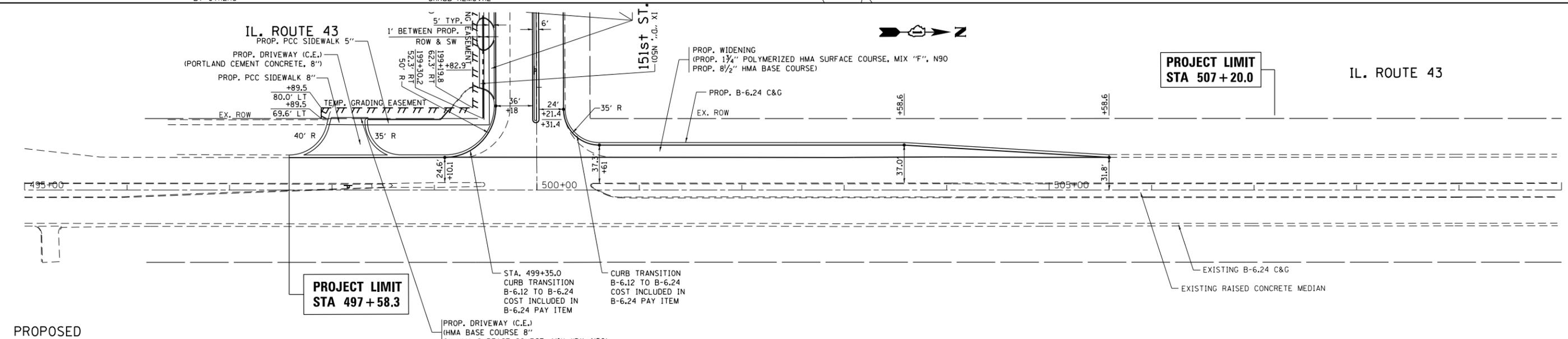
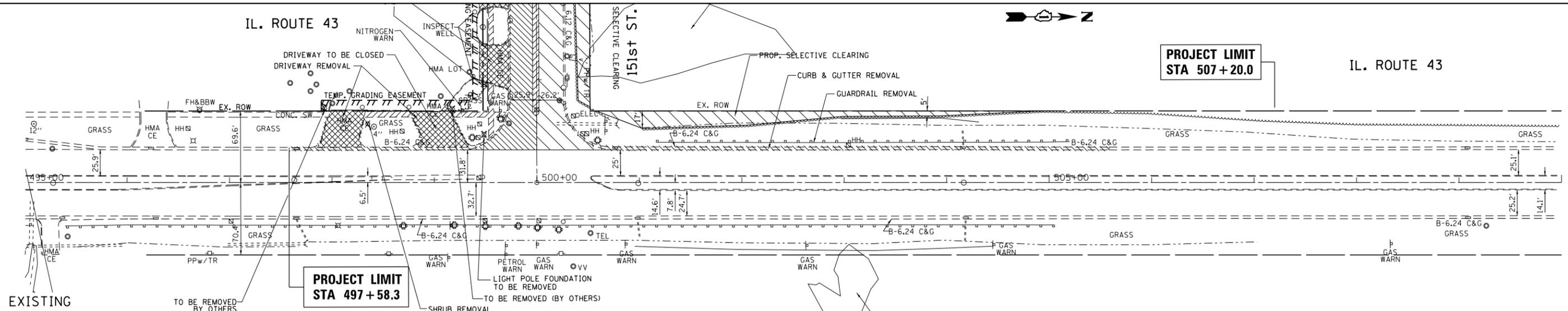
**PT#/BM#**

- CP 1 - "X" IN SIDEWALK IN SOUTHWEST CORNER IL 43 & 151st ST. ELEVATION = 702.99
- CP 2 - IRON ROD W/ YELLOW CAP S. SIDE 151st ST ±600' W. OF IL 43. ELEVATION = 718.004
- BM 1 - SPIKE W/ YELLOW SLEEVE NORTH SIDE 151st ST ±300' W. OF IL 43. ELEVATION = 708.154
- CP 101 - MAG NAIL IN MEDIAN IL 43 NORTH OF 151st STREET ±500'. ELEVATION = 708.358
- CP 103 - MAG NAIL IN MEDIAN IL 43 SOUTH OF 151st STREET ±500'. ELEVATION = 700.686
- BM 2 - "X" ON WEST BOLT OF F.H. WEST SIDE IL 43 @ #15130 S. HARLEM (IL 43). ELEVATION = 704.258



DATE	
BY	
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
FILE NAME	
NO.	
PLAN	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE	
NOTATIS	
NO.	
PROFILE	
NOTE BOOK	
NO.	

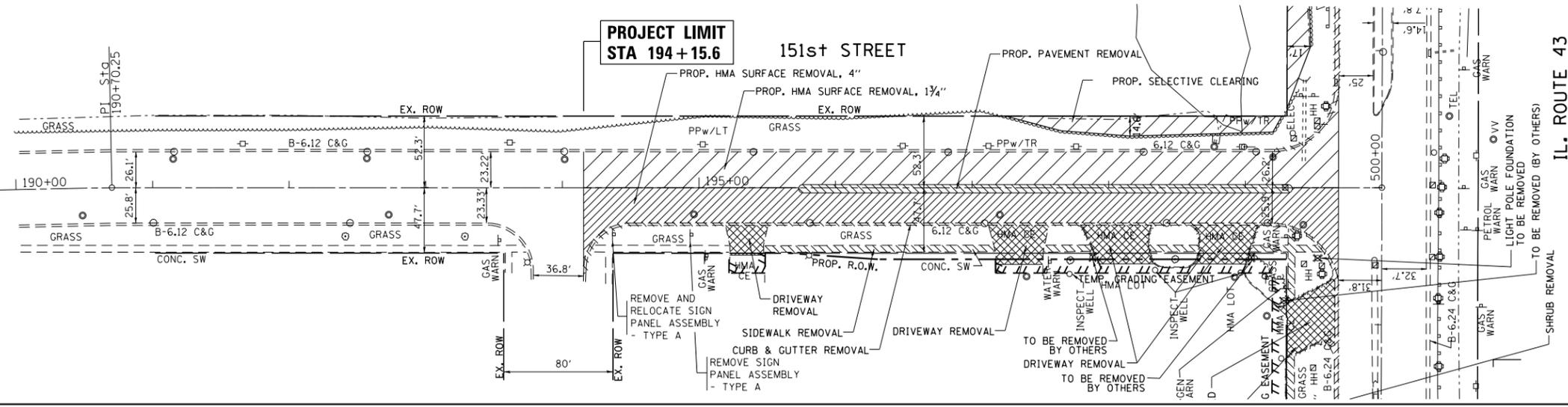


FILE NAME =	USER NAME = STREATERJR	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ROADWAY PLAN AND PROFILE</b> <b>IL. ROUTE 43 AT 151ST STREET</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwid\strea\jr\d0304669\p12	412-sht-plnprf.dgn	DRAWN -	REVISED -			348	(3127-1N-1(14)	COOK	69	16
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 60X85				
	PLOT DATE = 5/15/2015	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

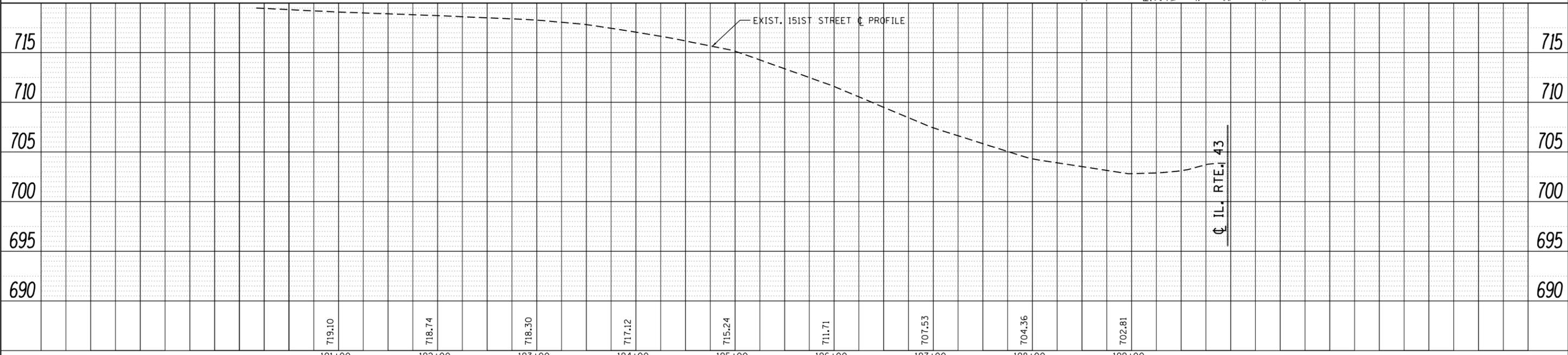
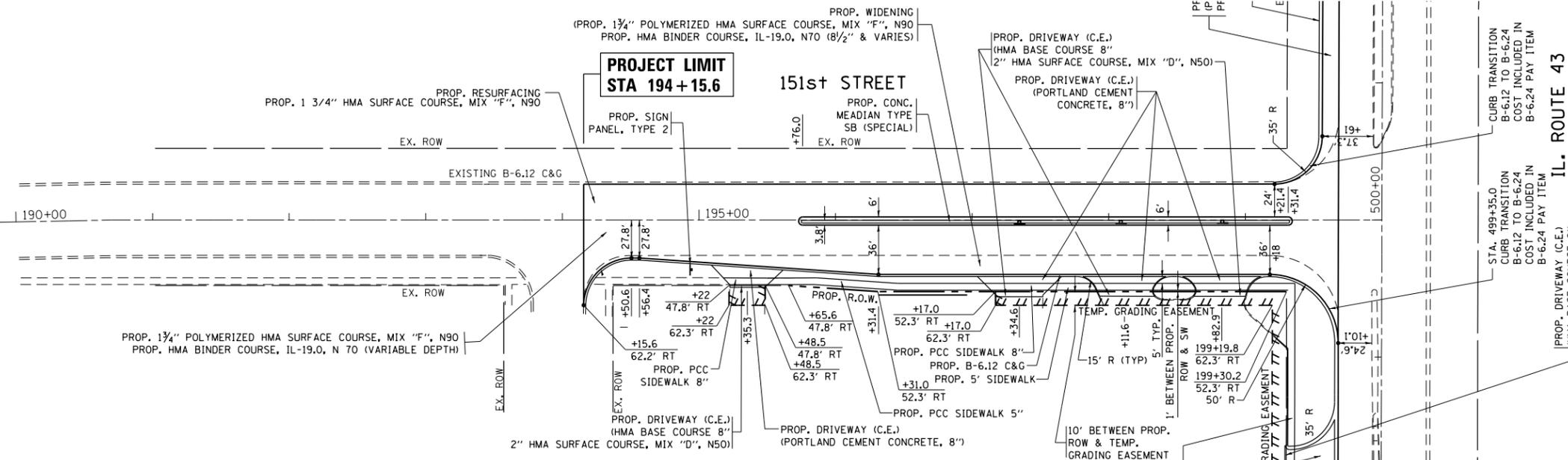
PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

EXISTING



PROPOSED

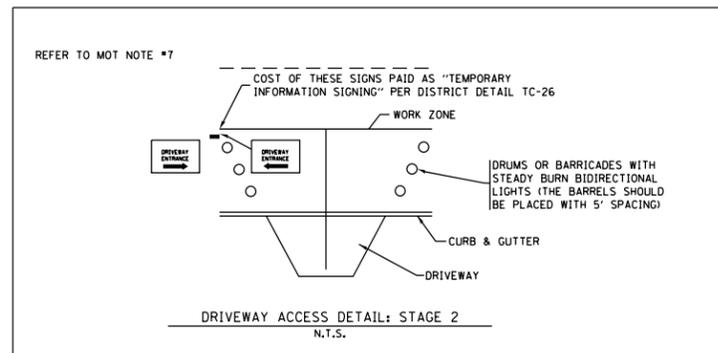


FILE NAME =	USER NAME = STREATERJR	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ROADWAY PLAN AND PROFILE</b> <b>IL. ROUTE 43 AT 151ST STREET</b>	F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\streaterjr\d0304669\p12412-sht-plnprf.dgn	DRAWN -	REVISED -	348			(3127-1N-1(14)	COOK	69	17	
Default	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -			CONTRACT NO. 60X85				
	PLOT DATE = 5/15/2015	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				



MAINTENANCE OF TRAFFIC GENERAL NOTES

1. ALL OF THE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE BEFORE CONSTRUCTION IS STARTED. THE TRAFFIC CONTROL PLANS SHALL SERVE AS THE MINIMUM MAINTENANCE OF TRAFFIC NECESSARY.
2. THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH THE SPECIAL PROVISIONS, STATE STANDARDS, STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL PROVIDE ADVANCE NOTICE OF CONSTRUCTION SIGNING. SIGNS SHALL BE ERECTED ONE WEEK IN ADVANCE OF THE START OF CONSTRUCTION. SIGNS SHALL BE TAKEN DOWN AS SOON AS THEY ARE NO LONGER APPLICABLE ON A CONTINUOUS BASIS AND RE-ERECTED AS APPROPRIATE.
4. THE FURNISHING, INSTALLING, AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE STANDARD SPECIFICATIONS. ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION.
5. TRAFFIC CONTROL DEPICTED IN THESE PLANS AND THE APPLICABLE I.D.O.T. DETAILS AND STANDARDS ARE THE MINIMUM REQUIREMENTS. OTHER WORK OR SIGNING MAY BE REQUIRED BY THE ENGINEER. TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, DIVISION 700; APPLICABLE GUIDELINES IN THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS; AND APPLICABLE HIGHWAY STANDARDS FOR TRAFFIC CONTROL UNLESS HEREIN REVISED.
6. ALL PAVEMENT MARKINGS SHOWN ON MAINTENANCE OF TRAFFIC SHEETS SHALL BE PAID FOR AS "PAVEMENT MARKING TAPE, TY. III" OF THE SIZE SPECIFIED.
7. ACCESS TO PROPERTIES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL ERECT DRIVEWAY ENTRANCE AS PROVIDED IN DISTRICT DETAIL TC-26. WHEN A DRIVEWAY MUST BE CLOSED TEMPORARILY FOR CONSTRUCTION OF THE DRIVEWAY APRON, PROPERTIES WITH MULTIPLE ENTRANCES SHALL HAVE ONLY ONE ENTRANCE CLOSED AT A TIME. THE COST OF THESE SIGNS ARE PAID AS "TEMPORARY INFORMATION SIGNING", PER DISTRICT DETAIL TC-26.
8. ALL EXISTING SIGNS WITHIN THE LIMITS OF MAINTENANCE OF TRAFFIC WHICH ARE OBSCURED BY OR OTHERWISE INTERFERED WITH BY THE CONSTRUCTION OPERATIONS AND MAINTENANCE OF TRAFFIC, SHALL BE COVERED OR REMOVED BY THE CONTRACTOR UNLESS SPECIFIED IN THE PLANS OR WHEN DIRECTED BY THE ENGINEER, THIS WORK SHALL BE IN ACCORDANCE WITH ARTICLE 107.25 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.



PRE-STAGE

PRIOR TO START OF WORK, ALL CONFLICTING UTILITIES ARE TO BE RELOCATED.  
 IMMEDIATELY PRIOR TO THE START OF STAGE 1, REMOVE CONFLICTING EXISTING PAVEMENT MARKINGS IN PREPERATION FOR STAGE 1 TRAFFIC CONTROL

STAGE 1

PLACE ALL TRAFFIC CONTROL ITEMS PER STAGE 1 TRAFFIC CONTROL PLAN.  
 BOTH SOUTHBOUND LANES (11FT FEET WIDE EACH) ON IL 43 SHALL BE KEPT OPEN TO THROUGH TRAFFIC.  
 REMOVE EXISTING CURB AND GUTTER, GUARDRAIL AND APPLICABLE DRAINAGE ITEMS AS SHOWN IN THE ROADWAY AND DRAINAGE PLAN SHEETS.  
 CONSTRUCT PAVEMENT WIDENING, CURB AND GUTTER, DRAINAGE STRUCTURES AND DITCH WORK AS SHOWN IN THE ROADWAY AND DRAINAGE PLAN SHEETS.

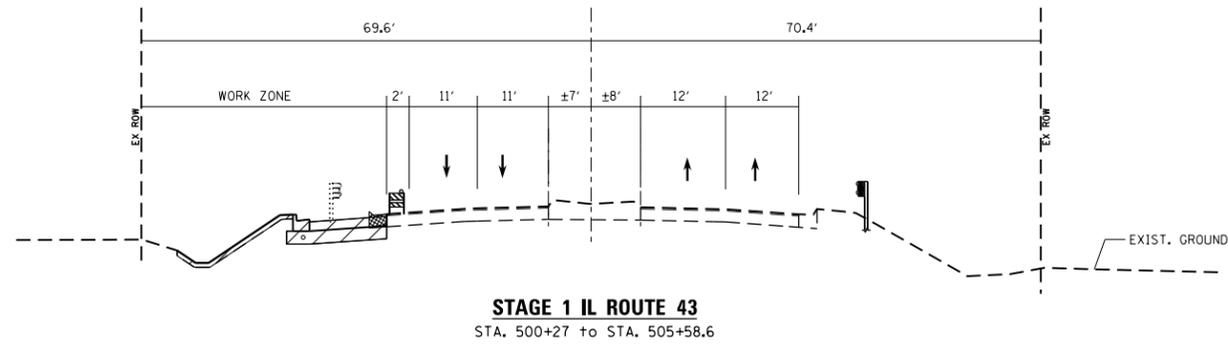
STAGE 2

REMOVE ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED TRAFFIC CONTROL FOR STAGE 2.  
 PLACE ALL TRAFFIC CONTROL ITEMS PER STAGE 2 TRAFFIC CONTROL PLAN.  
 151st STREET WESTBOUND TRAFFIC WILL BE PUSHED OVER TO EASTBOUND LANE 1 OF 151st STREET. THEREFORE TRAFFIC FOR EASTBOUND AND WESTBOUND 151st STREET WILL BE REDUCED TO ONE LANE IN EACH DIRECTION AS SHOWN.  
 REMOVE EXISTING CURB AND GUTTER, PAVEMENT, DRIVEWAYS, AND APPLICABLE DRAINAGE ITEMS AS SHOWN IN THE ROADWAY AND DRAINAGE PLAN SHEETS.  
 CONSTRUCT PAVEMENT WIDENING, CURB AND GUTTER, DRAINAGE STRUCTURES, AND DRIVEWAYS AS SHOWN IN THE ROADWAY AND DRAINAGE PLAN SHEETS.  
 THE SOLID BARRIER MEDIAN SHALL BE CONSTRUCTED LAST AS TO NOT BLOCK TRAFFIC FROM ACCESSING THE DRIVEWAYS ALONG 151st STREET.

POST-STAGE

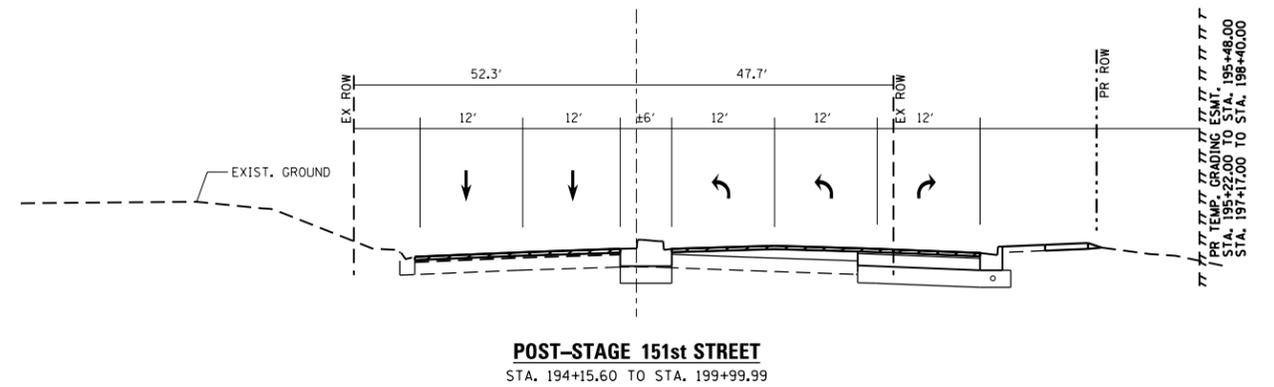
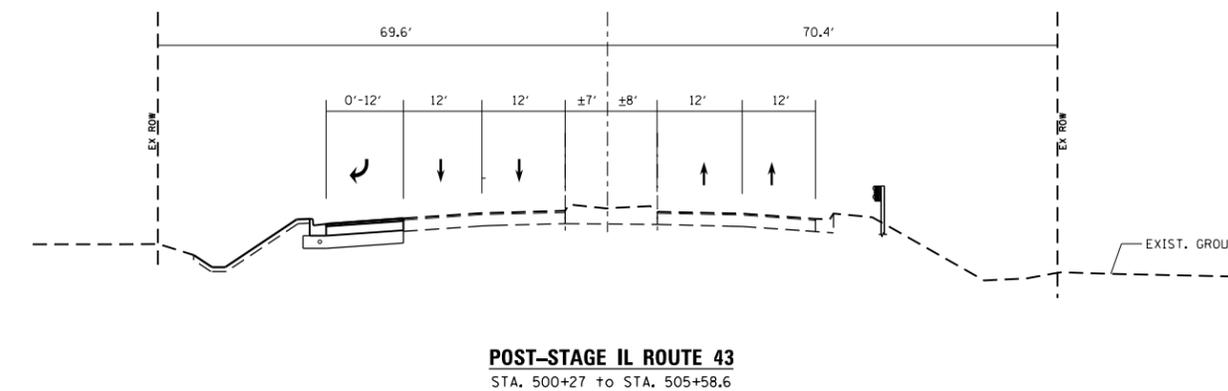
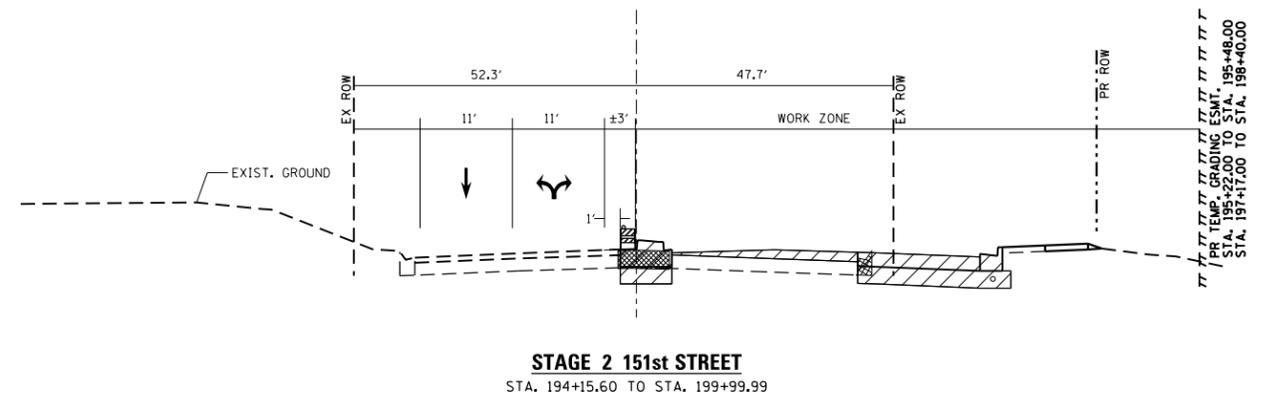
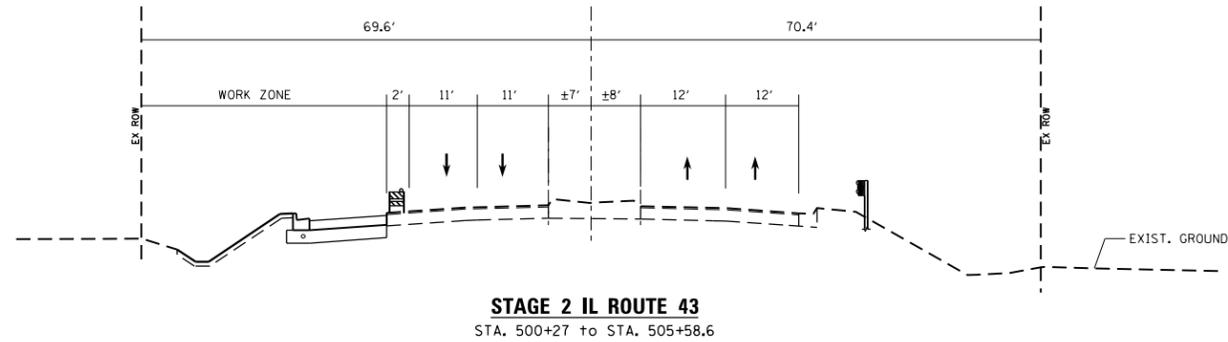
ALL LEGS WITHIN IN THE WORK ZONE WILL BE PAVED WITH HOT-MIX ASPHALT SURFACE COURSE, N90.  
 ANY REMAINING CONFLICTING PAVEMENT MARKINGS WILL BE REMOVED AND THE FINAL PAVEMENT MARKINGS WILL BE PLACED FOLLOWING THE PROPOSED PAVEMENT MARKING PLANS.

FILE NAME =	USER NAME = STREATERJR	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC IL 43 AT 151st STREET</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	24412-sh1-staging.dgn	DRAWN -	REVISED -						348	(3127-1N-1(14)	COOK	69	18
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 60X85								
	PLOT DATE = 5/15/2015	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	



**LEGEND**

-  CONSTRUCTION ITEMS
-  REMOVAL ITEMS
-  DIRECTION OF TRAVEL
-  DRUM OR BARRICADE



FILE NAME =	USER NAME = STREATERJR	DESIGNED -	REVISED -
ci:\pw\work\p\idot\streater_jr\d0304670\24412-sh1-staging.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/15/2015	DATE -	REVISED -

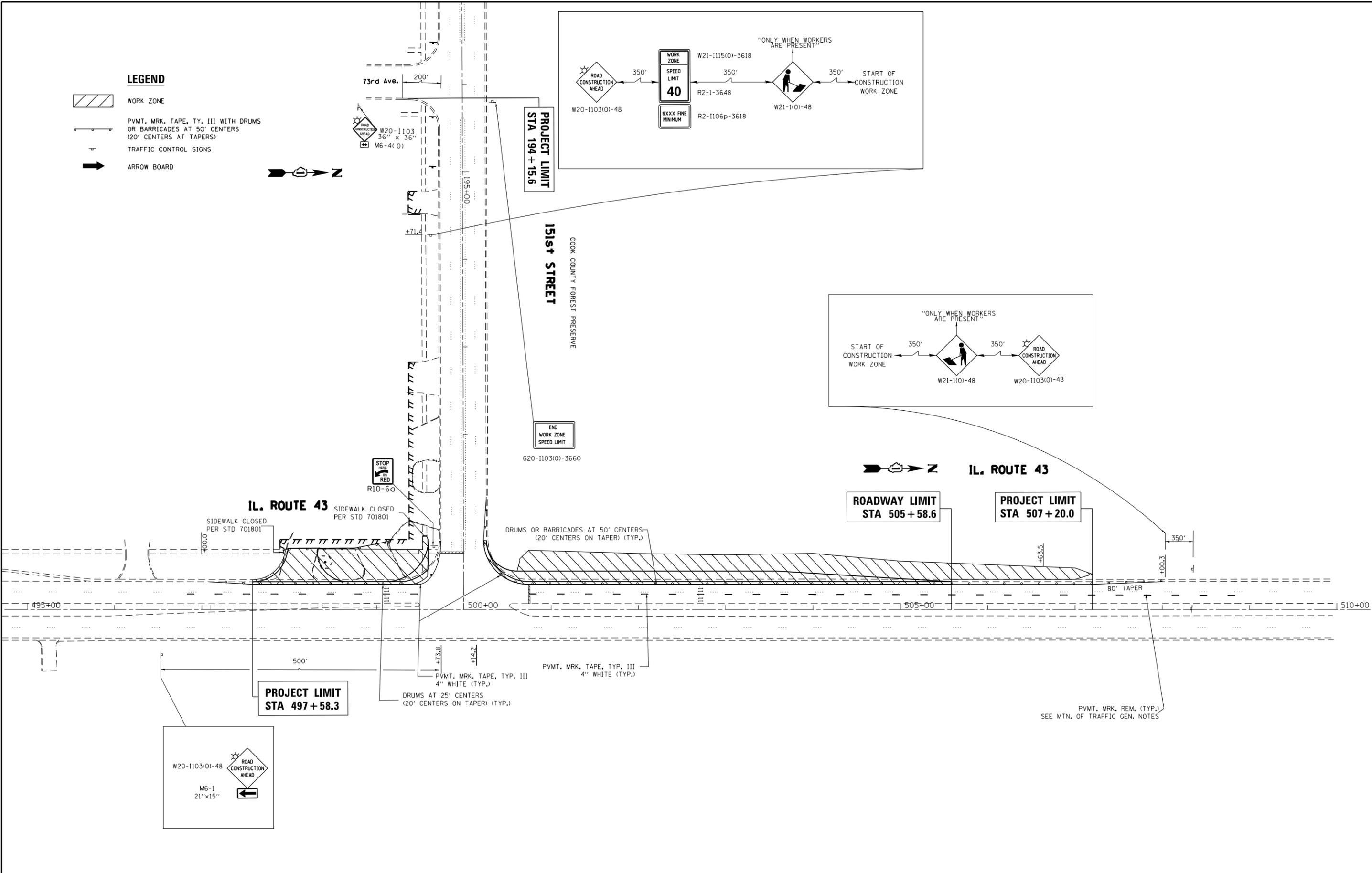
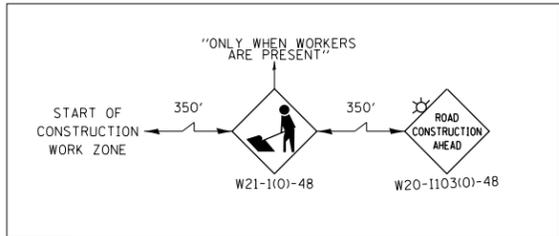
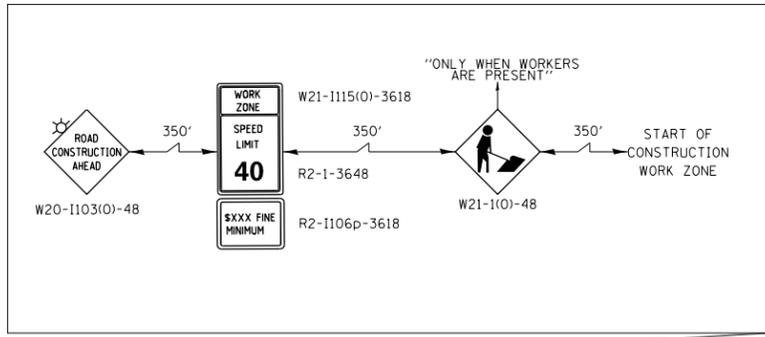
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC  
IL 43 AT 151st STREET**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(3127-1N-1(14)	COOK	69	19
CONTRACT NO. 60X85				
ILLINOIS FED. AID PROJECT				

- LEGEND**
-  WORK ZONE
  -  PVMT. MRK. TAPE, TY. III WITH DRUMS OR BARRICADES AT 50' CENTERS (20' CENTERS AT TAPERS)
  -  TRAFFIC CONTROL SIGNS
  -  ARROW BOARD



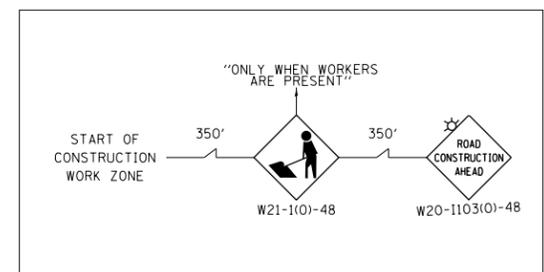
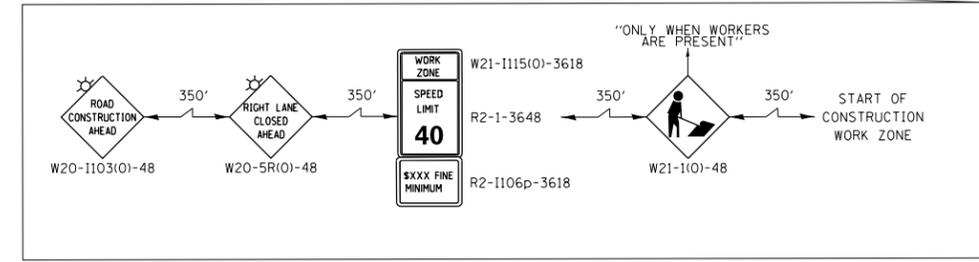
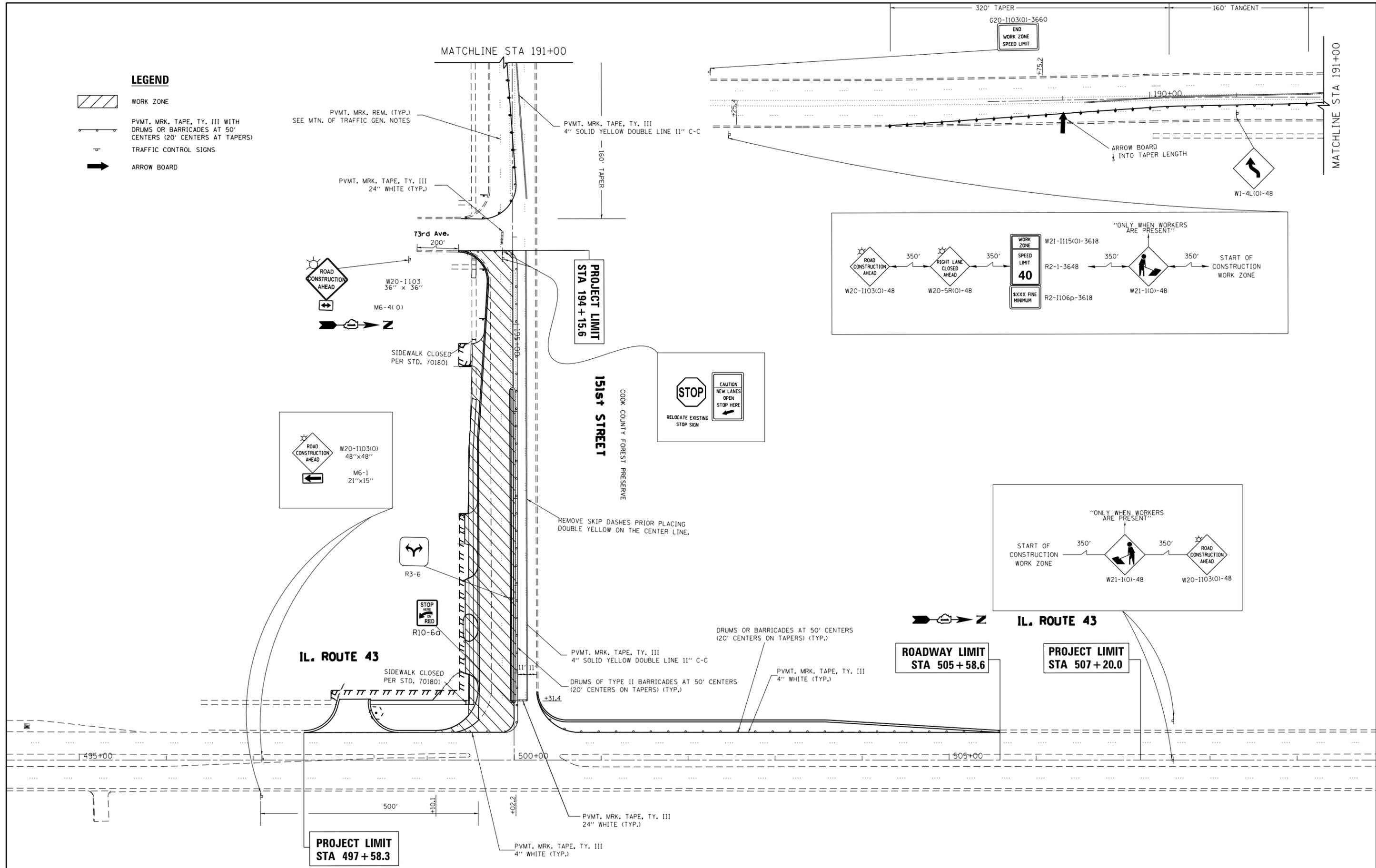
FILE NAME =	USER NAME = STREATERJR	DESIGNED -	REVISED -
ei:\pw\work\p\id\streater_jr\d0304670\F24412-sh1-staging.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/15/2015	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>STAGE 1 CONSTRUCTION IL 43 AT 151st STREET</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(3127-1N-1(14)	COOK	69	20
<b>CONTRACT NO. 60X85</b>				
ILLINOIS FED. AID PROJECT				

- LEGEND**
-  WORK ZONE
  -  PVMT. MRK. TAPE, TY. III WITH DRUMS OR BARRICADES AT 50' CENTERS (20' CENTERS AT TAPERS)
  -  TRAFFIC CONTROL SIGNS
  -  ARROW BOARD



FILE NAME =	USER NAME = STREATERJR	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STAGE 2 CONSTRUCTION IL 43 AT 151ST STREET</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
Default	et:\pw\work\p\id\streater_jr\d0304670\24412-sh1-staging.dgn	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	348	(3127-1N-1(14)	COOK	69	21
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -									CONTRACT NO. 60X85				
	PLOT DATE = 5/15/2015	DATE -	REVISED -									ILLINOIS FED. AID PROJECT				

**LEGEND**

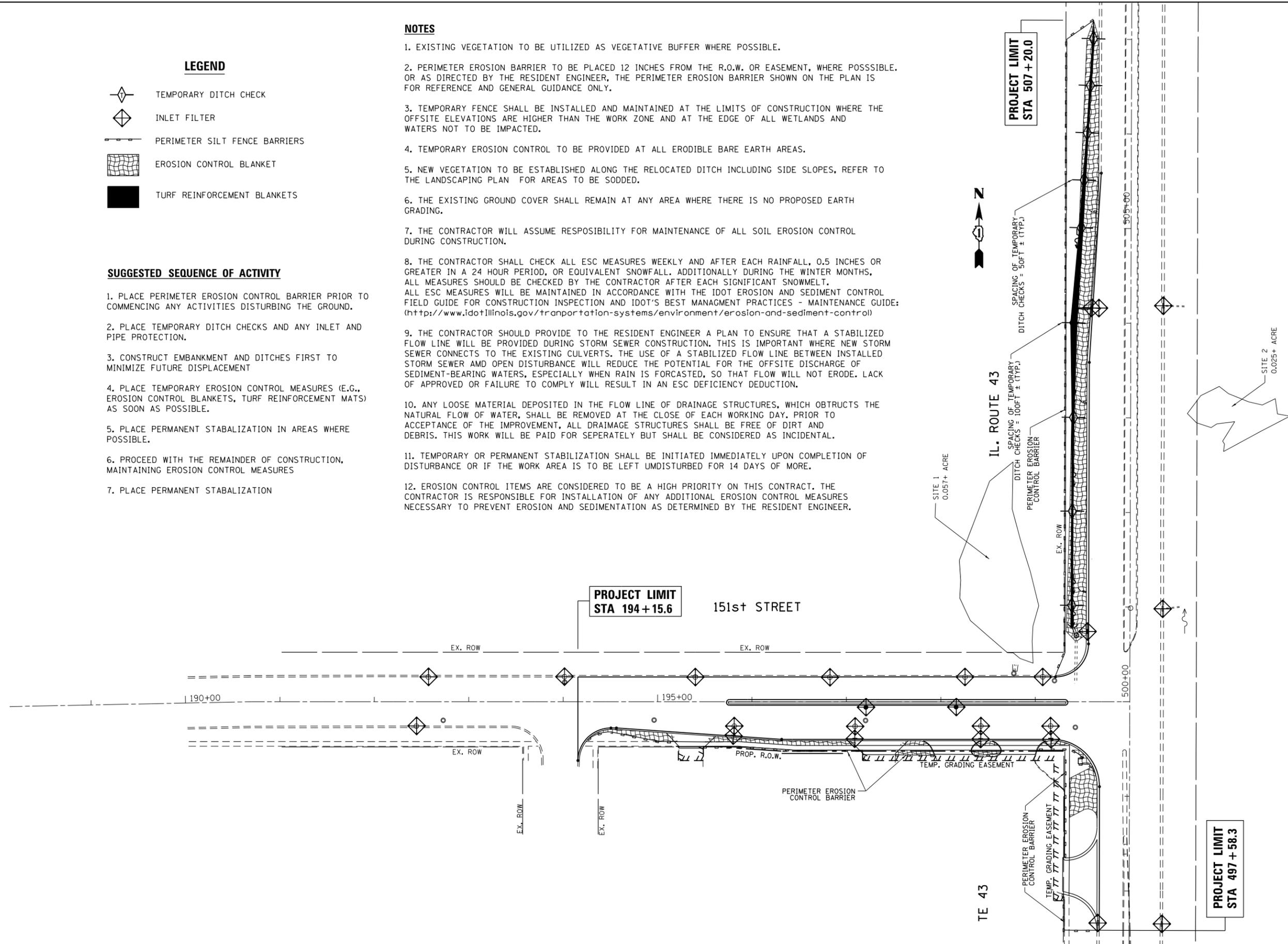
-  TEMPORARY DITCH CHECK
-  INLET FILTER
-  PERIMETER SILT FENCE BARRIERS
-  EROSION CONTROL BLANKET
-  TURF REINFORCEMENT BLANKETS

**SUGGESTED SEQUENCE OF ACTIVITY**

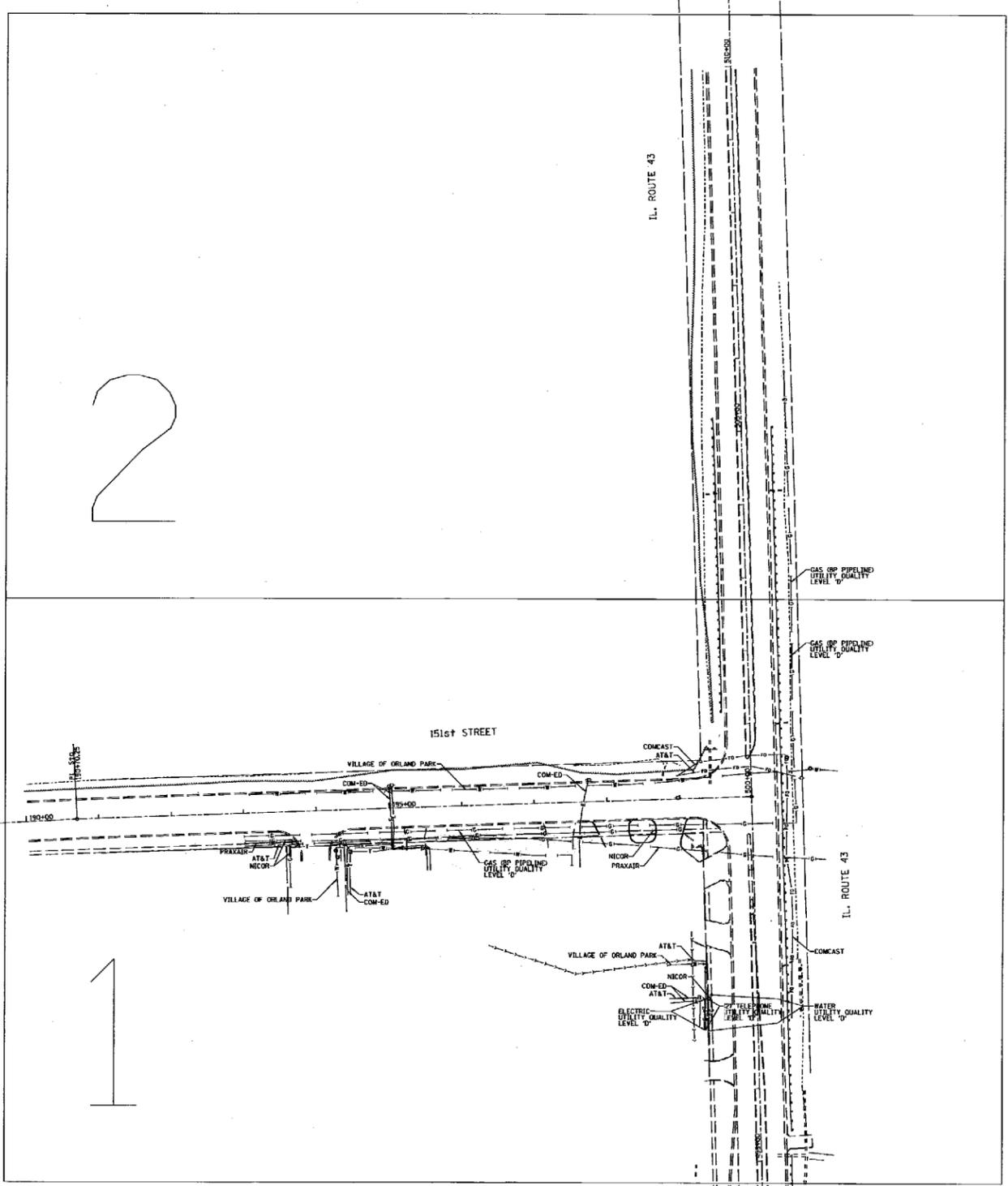
1. PLACE PERIMETER EROSION CONTROL BARRIER PRIOR TO COMMENCING ANY ACTIVITIES DISTURBING THE GROUND.
2. PLACE TEMPORARY DITCH CHECKS AND ANY INLET AND PIPE PROTECTION.
3. CONSTRUCT EMBANKMENT AND DITCHES FIRST TO MINIMIZE FUTURE DISPLACEMENT
4. PLACE TEMPORARY EROSION CONTROL MEASURES (E.G., EROSION CONTROL BLANKETS, TURF REINFORCEMENT MATS) AS SOON AS POSSIBLE.
5. PLACE PERMANENT STABILIZATION IN AREAS WHERE POSSIBLE.
6. PROCEED WITH THE REMAINDER OF CONSTRUCTION, MAINTAINING EROSION CONTROL MEASURES
7. PLACE PERMANENT STABILIZATION

**NOTES**

1. EXISTING VEGETATION TO BE UTILIZED AS VEGETATIVE BUFFER WHERE POSSIBLE.
2. PERIMETER EROSION BARRIER TO BE PLACED 12 INCHES FROM THE R.O.W. OR EASEMENT, WHERE POSSIBLE, OR AS DIRECTED BY THE RESIDENT ENGINEER, THE PERIMETER EROSION BARRIER SHOWN ON THE PLAN IS FOR REFERENCE AND GENERAL GUIDANCE ONLY.
3. TEMPORARY FENCE SHALL BE INSTALLED AND MAINTAINED AT THE LIMITS OF CONSTRUCTION WHERE THE OFFSITE ELEVATIONS ARE HIGHER THAN THE WORK ZONE AND AT THE EDGE OF ALL WETLANDS AND WATERS NOT TO BE IMPACTED.
4. TEMPORARY EROSION CONTROL TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS.
5. NEW VEGETATION TO BE ESTABLISHED ALONG THE RELOCATED DITCH INCLUDING SIDE SLOPES, REFER TO THE LANDSCAPING PLAN FOR AREAS TO BE SODDED.
6. THE EXISTING GROUND COVER SHALL REMAIN AT ANY AREA WHERE THERE IS NO PROPOSED EARTH GRADING.
7. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL CHECK ALL ESC MEASURES WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. ADDITIONALLY DURING THE WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT. ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION AND IDOT'S BEST MANAGEMENT PRACTICES - MAINTENANCE GUIDE: (<http://www.idotillinois.gov/transportation-systems/environment/erosion-and-sediment-control>)
9. THE CONTRACTOR SHOULD PROVIDE TO THE RESIDENT ENGINEER A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THIS IS IMPORTANT WHERE NEW STORM SEWER CONNECTS TO THE EXISTING CULVERTS. THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS, ESPECIALLY WHEN RAIN IS FORCASTED, SO THAT FLOW WILL NOT ERODE. LACK OF APPROVED OR FAILURE TO COMPLY WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.
10. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL BE PAID FOR SEPERATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.
11. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OF DISTURBANCE OR IF THE WORK AREA IS TO BE LEFT UNDISTURBED FOR 14 DAYS OF MORE.
12. EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE RESIDENT ENGINEER.



FILE NAME =	USER NAME = STREATERJR	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION &amp; SEDIMENT CONTROL PLAN IL. ROUTE 43 AT 151ST STREET</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	ci:\pw\work\pidot\streater_jr\d0304669\24412-sh1-eros.dgn	DRAWN -	REVISED -			348	(3127-1N-1(14)	COOK	69	22	
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			<b>CONTRACT NO. 60X85</b>					
Default	PLOT DATE = 5/15/2015	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

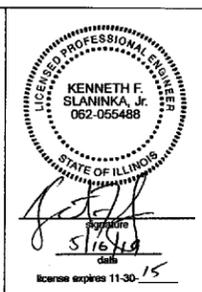


—A—A—A—	AERIAL
—U—U—U—	UNKNOWN
—CTV—CTV—CTV—	CABLE TV
—T—T—T—	TELEPHONE
—G—G—G—	GAS
—E—E—E—	ELECTRIC
—W—W—W—	WATER
—FO—FO—FO—	FIBER OPTIC
⊕	TBE TEST HOLE

UTILITY OWNERS	
AT&T	= FIBER OPTIC
AT&T	= TELEPHONE
BP PIPELINE	= GAS
COM-ED	= ELECTRIC
COMCAST	= FIBER OPTIC
NICOR	= GAS
PRAXAIR	= GAS
VILLAGE OF ORLAND PARK	= WATER

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's OL"B" SUE field investigation was performed 4/28/14 through 5/13/14. Changes to utilities after 5/13/14 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



  
Engineers & Surveyors

TBE Job No. IL09510606  
 SUE Plan Page: Cover

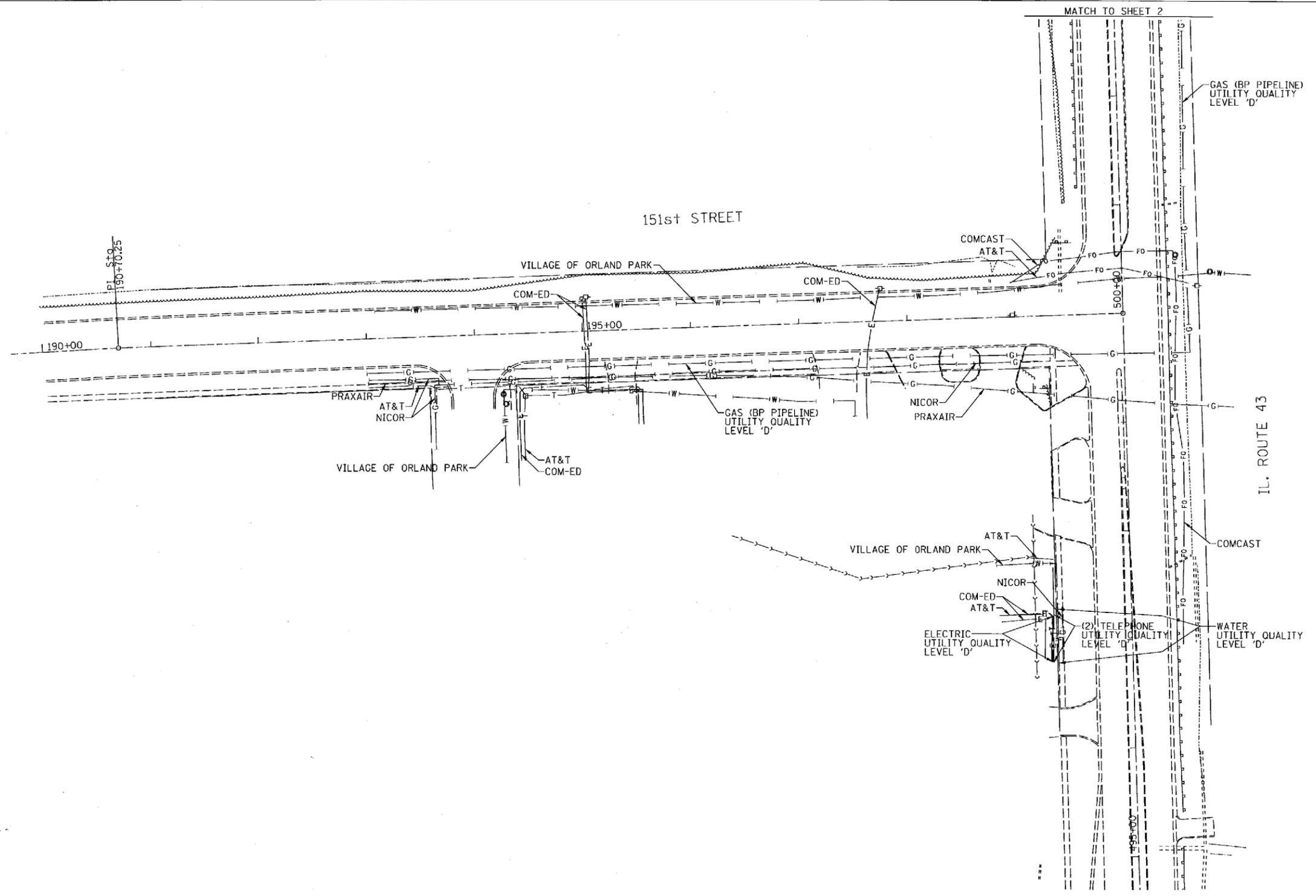
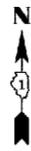
Utility Quality Level "A": Visually Verified Test Hole  
 Utility Quality Level "B": Designating/non Visually Verified Test Hole  
 Utility Quality Level "C": Research with Survey  
 Utility Quality Level "D": Records Research

DESIGNED	JP	REVISED
DRAWN	SRK	REVISED
CHECKED	KFS	REVISED
DATE	5/14/14	REVISED

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

**IL 43 at 151st Street**  
**Orland Park, Illinois**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	N/A	Cook	69	23
FED. ROAD DIST. NO. - ILLINOIS			IDOT Project No.	

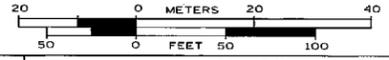


— A — A —	AERIAL
— — — —	UNKNOWN
— CTV — CTV —	CABLE TV
— T — T —	TELEPHONE
— G — G —	GAS
— E — E —	ELECTRIC
— W — W —	WATER
— FO — FO —	FIBER OPTIC
⊕	TBE TEST HOLE

UTILITY OWNERS	
AT&T	= FIBER OPTIC
AT&T	= TELEPHONE
BP PIPELINE	= GAS
COM-ED	= ELECTRIC
COMCAST	= FIBER OPTIC
NICOR	= GAS
PRAXAIR	= GAS
VILLAGE OF ORLAND PARK	= WATER

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's "B" SUE field investigation was performed 4/28/14 through 5/13/14. Changes to utilities after 5/13/14 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



TBE Job No. IL09510606  
SUE Plan Page: 1 of 2

Utility Quality Level "A" : Visually Verified Test Hole  
Utility Quality Level "B" : Designating/non Visually Verified Test Hole  
Utility Quality Level "C" : Research with Survey  
Utility Quality Level "D" : Records Research

DESIGNED	IP	REVISED
DRAWN	SRK	REVISED
CHECKED	KFS	REVISED
DATE	5/14/14	REVISED

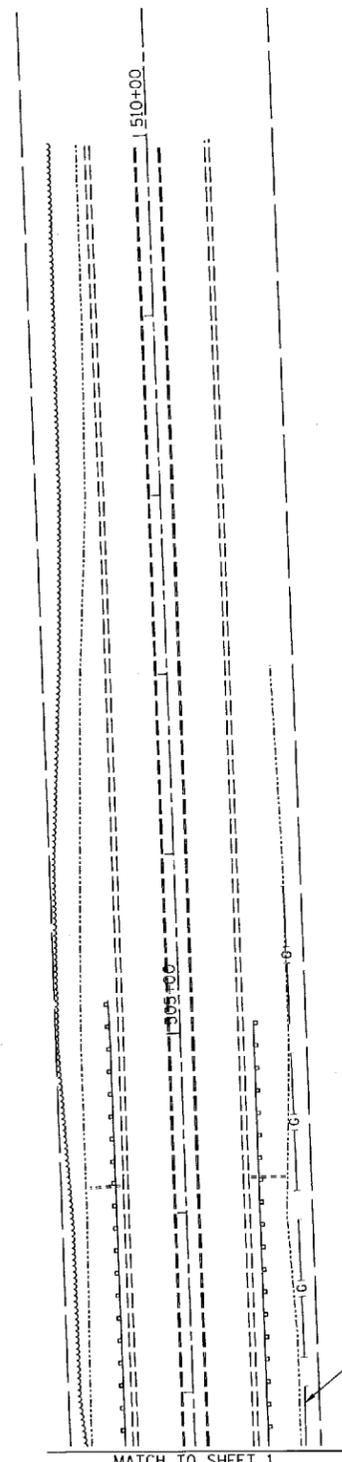
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 43 at 151st Street  
Orland Park, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	N/A	Cook	69	24
Contract No. 60X85				
FED. ROAD DIST. NO. ILLINOIS IDOT Project No.				



IL. ROUTE 43



GAS (BP PIPELINE)  
UTILITY QUALITY  
LEVEL 'D'

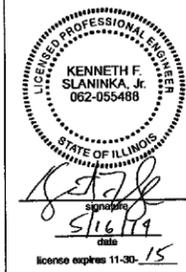
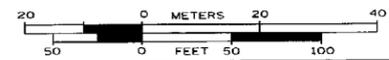
MATCH TO SHEET 1

- A ——— A ——— AERIAL
- - - - - UNKNOWN
- CTV ——— CTV ——— CABLE TV
- T ——— T ——— TELEPHONE
- G ——— G ——— GAS
- E ——— E ——— ELECTRIC
- W ——— W ——— WATER
- FO ——— FO ——— FIBER OPTIC
- ⊕ TBE TEST HOLE

**UTILITY OWNERS**  
 AT&T = FIBER OPTIC  
 AT&T = TELEPHONE  
 BP PIPELINE = GAS  
 COM-ED = ELECTRIC  
 COMCAST = FIBER OPTIC  
 NICOR = GAS  
 PRAXAIR = GAS  
 VILLAGE OF ORLAND PARK = WATER

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's QL'B" SUE field investigation was performed 4/28/14 through 5/13/14. Changes to utilities after 5/13/14 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B"  
UNLESS NOTED OTHERWISE.



TBE Job No. IL09510606  
SUE Plan Page: 2 of 2

Utility Quality Level "A" : Visually Verified Test Hole  
 Utility Quality Level "B" : Designating/non Visually Verified Test Hole  
 Utility Quality Level "C" : Research with Survey  
 Utility Quality Level "D" : Records Research

DESIGNED	IP	REVISED
DRAWN	SRK	REVISED
CHECKED	KFS	REVISED
DATE	5/14/14	REVISED

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

**IL 43 at 151st Street**  
**Orland Park, Illinois**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	N/A	Cook	69	25
FED. ROAD DIST. NO. - ILLINOIS IDOT Project No.			Contract No. 60X85	







INLET, TYPE A, TYPE 1 FRAME, OPEN LID  
 STA 195+80, 35.94' RT  
 T.G. 711.92  
 INV. 708.92 N



EXIST., C.B., W/ T-1 OL TO BE  
 ADJUSTED W/ T-1 CL  
 STA 195+80, 25.81' RT  
 EXIST. T.G. 711.90  
 PROP. T.G. 713.00  
 INV. 708.68 S  
 INV. 705.10 N\*



INLET, TYPE A, TYPE 1 FRAME, OPEN LID  
 STA 197+09, 31.13' RT  
 T.G. 707.04  
 INV. 704.04 N



EXIST. C.B., W/ T-1 OL TO BE  
 ADJUSTED W/ T-1 CL  
 STA 197+09, 25.97' RT  
 EXIST. T.G. 706.68  
 PROP. T.G. 707.46  
 INV. 703.71 S  
 INV. 701.98 N\*



PROP. C.B., T-A, 4' DIA., W/ T-1 OL  
 STA 198+16, 5.74' RT  
 T.G. 704.21  
 INV. 702.11 W



PROP. C.B., T-A, 4' DIA., W/ T-1 OL  
 STA 197+20, 5.94' RT  
 T.G. 706.97  
 INV. 701.65 E  
 INV. 701.63 S



EXIST. M.H., TO BE ADJUSTED  
 STA 197+20, 25.73' RT  
 EXIST. T.G. 706.41  
 PROP. T.G. 707.07  
 INV. EXISTING E\*  
 INV. EXISTING W\*  
 INV. 701.59 N



INLET, T-A, TYPE 1 FRAME, OPEN LID  
 STA 198+42, 39.43' RT  
 T.G. 703.51  
 INV. 700.51 N



EXIST. C.B., W/ T-1 OL TO BE  
 ADJUSTED W/ T-1 CL  
 STA 198+42, 25.73' RT  
 EXIST. T.G. 702.83  
 PROP. T.G. 703.93  
 INV. 700.18 S  
 INV. 698.03 N\*



INLET, T-A, TYPE 1 FRAME, OPEN LID  
 STA 199+16, 39.45' RT  
 T.G. 702.48  
 INV. 699.48 N



EXIST. C.B., W/ T-1 OL TO BE  
 ADJUSTED W/ T-1 CL  
 STA 199+16, 25.71' RT  
 EXIST. T.G. 702.18  
 PROP. T.G. 702.93  
 INV. 699.15 S  
 INV. 697.27 N\*



INLET, T-A, 2' DIA., W/ T-24 F&G  
 STA 504+16, 41.38' RT  
 T.G. 706.99  
 INV. 703.99 W



12" REINFORCED CONCRETE FLARED END SECTION  
 STA. 504+16, 57.10' LT  
 INV. 703.88  
 DITCH GRADE 703.48



INLET, T-A, 2' DIA., W/ T-24 F&G  
 STA 500+74, 44.91' RT  
 T.G. 703.17  
 INV. 700.2 N



REINFORCED CONCRETE FLARED END  
 SECTION FOR PIPE CULVERT, 24"  
 DIA.  
 STA 500+78, 60.20' LT  
 INV. 700.00  
 TRIBUTARY AREA TO CULVERT  
 1M + 1N + 10 = 1.09 AC



MANHOLE, T-A, 4' DIA., W/ T-1 CL  
 STA. 500+70, 56.70' LT  
 T.G. 703.29  
 INV. +/- 699.7 N  
 INV. +/- 699.5 S  
 INV. +/- 699.8 W

\* DENOTES EXISTING INVERTS IN EXISTING STRUCTURES

STORM WATER STRUCTURE OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS ARE TO THE FOLLOWING POINTS:

- A) FOR STRUCTURES FALLING IN THE CURB LINE - TO THE EDGE OF THE PAVEMENT.
- B) FOR ALL OTHER STRUCTURE LOCATIONS - TO THE CENTER OF THE STRUCTURE.



PROP. STORM SEWER, CLASS A, TYPE 2 12", 8'  
 TRENCH BACKFILL = 0.27 CUBIC YARDS



PROP. STORM SEWER, CLASS A, TYPE 2 12", 11'  
 TRENCH BACKFILL = 0.54 CUBIC YARDS



PROP. STORM SEWER, CLASS A, TYPE 2 12", 90.5'  
 TRENCH BACKFILL = 12.64 CUBIC YARDS



PROP. STORM SEWER, CLASS A, TYPE 2 12", 9'  
 TRENCH BACKFILL = 0.44 CUBIC YARDS



PROP. STORM SEWER, CLASS A, TYPE 2 12", 11'  
 TRENCH BACKFILL = 0.48 CUBIC YARDS



PROP. STORM SEWER, CLASS A, TYPE 2 12", 11'  
 TRENCH BACKFILL = 0.56 CUBIC YARDS



PROP. PIPE CULVERT, CLASS A, TYPE 2 12", 14'  
 TRENCH BACKFILL = 0.89 CUBIC YARDS



PROP. STORM SEWER, CLASS A, TYPE 2 12", 11'  
 TRENCH BACKFILL = 2.51 CUBIC YARDS



PROP. STORM SEWER, CLASS A, TYPE 2 24", 8'  
 TRENCH BACKFILL = 2.51 CUBIC YARDS

FILE NAME =	USER NAME = STREATERJR	DESIGNED -	REVISED -
ci:\pw\work\p\dot\streater_jr\d0304670\24412-sh1-details.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/15/2015	DATE -	REVISED -

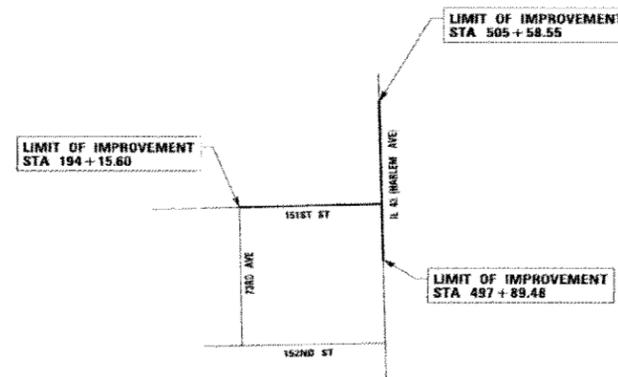
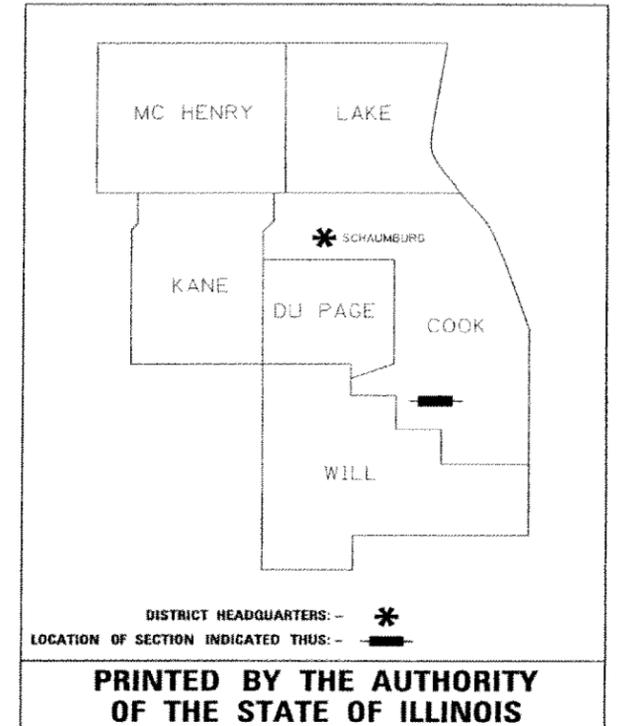
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

<b>DRAINAGE TABLE</b>			
<b>IL 43 AT 151st STREET</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(3127-1N-1(14)	COOK	69	28
CONTRACT NO. 60X85			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PLAT OF HIGHWAYS**

ROUTE: IL 43 (HARLEM AVE)  
SECTION:  
COUNTY: COOK  
LIMITS: AT 151ST STREET  
JOB NO.: R-90-002-14



**LOCATION MAP**

PROJECT LENGTH = 1311 FT. = 0.248 MILES

PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
0K30001TE	FIRST MIDWEST BANK AS TRUSTEE UNDER TRUST AGREEMENT DATED JANUARY 31, 2006 AND KNOWN AS TRUST NO. 1521	2	
0K30002 0K30002TE	MARQUETTE BANK AS TRUSTEE UNDER TRUST AGREEMENT DATED JANUARY 13, 2003 KNOWN AS TRUST NO. 16613	2	
0K30003 0K30003TE	151ST & HARLEM, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY	2	

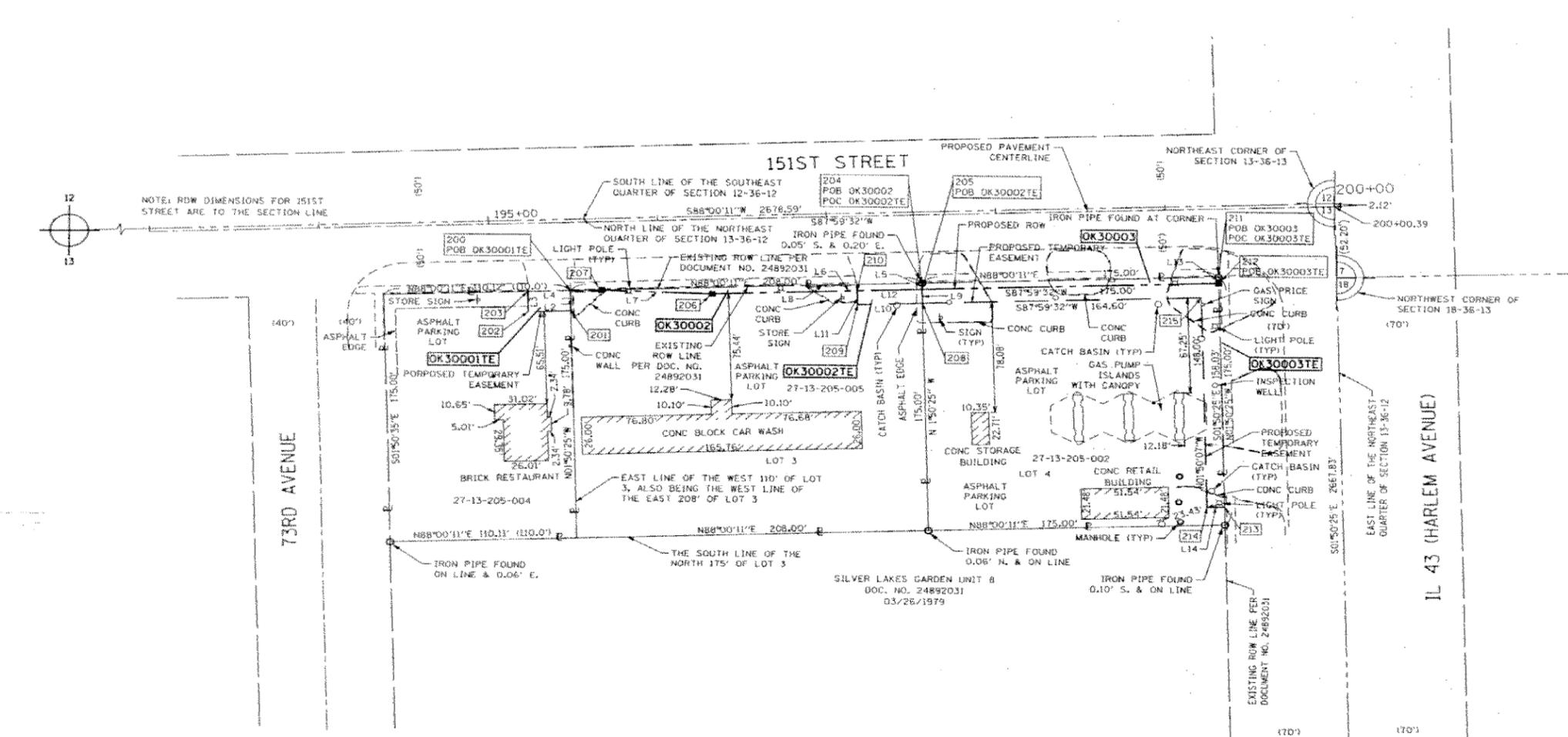
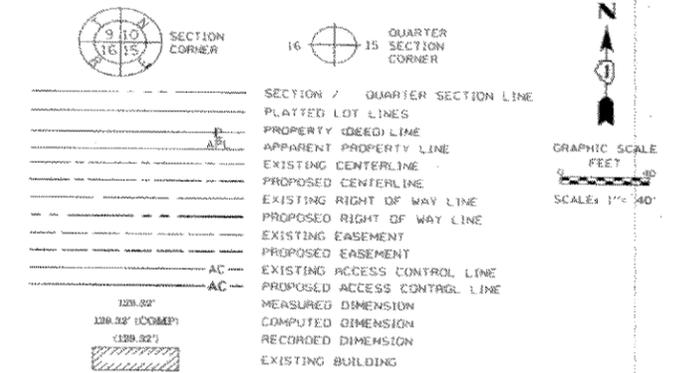
55  
RECEIVED  
NOV 01 2013  
PLATS & LEGALS

DBS  
DB STERLIN CONSULTANTS, INC.  
125 N. WACKER DRIVE SUITE 2000  
CHICAGO, ILLINOIS 60606  
TEL: (312) 697-1000 FAX: (312) 697-1008

FILE NAME = c:\pw\work\p\dot\streater_jr\d0304670\24412-sh1-details.dgn	USER NAME = STREATERJR	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAT OF HIGHWAYS IL 43 AT 151st STREET</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -					348	(3127-1N-1(14)	COOK	69	29
Default	PLOT DATE = 5/15/2015	DATE -	REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 60X85 ILLINOIS FED. AID PROJECT					

PART OF THE NE 1/4 OF SECTION 13, TWP. 36 N., R. 12 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

**LEGEND**



- BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.
- IRON PIPE OR ROD FOUND
  - ⊙ "MAG" NAIL SET
  - ⊕ CUT CROSS FOUND OR SET
  - 5" / 8" REBAR SET
  - T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION, SET 5/8" INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
  - T2 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION, BURIED 5/8" INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
  - T3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION, BURIED 5/8" INCH IRON ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
  - STAKING OF PROPOSED RIGHT OF WAY, SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
  - M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, BURIED 5/8" INCH IRON ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
  - ⊙ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
  - RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS )  
COUNTY OF COOK )

THIS IS TO CERTIFY THAT WE, DB STERLIN CONSULTANTS, INC. AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-001909, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP 36 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CHICAGO, ILLINOIS THIS 26TH DAY OF MARCH, 2015 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-3134  
LICENSE EXPIRATION DATE: NOV. 30, 2016

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



**DBS** DB STERLIN CONSULTANTS, INC.  
123 N. WACKER DRIVE SUITE 2000  
CHICAGO, ILLINOIS 60606  
TEL: (312)857-1000 FAX: (312)857-1008

**PROJECT COORDINATES**  
ILLINOIS STATE PLANE, EAST ZONE, NAD83 (2011)

POINT NUMBER	NORTHING	EASTING	STATION	OFFSET
200	1803443.39	1131097.95	195+27.24	47.80
201	1803428.84	1131098.42	195+47.20	62.28
202	1803427.96	1131073.23	195+22.00	62.28
203	1803442.44	1131072.72	195+22.00	47.76
204	1803450.56	1131305.83	197+55.24	47.84
205	1803446.32	1131302.97	197+55.23	52.28
206	1803441.77	1131118.80	196+30.38	52.28
207	1803443.39	1131116.34	195+65.64	47.80
208	1803436.13	1131306.29	197+55.20	62.28
209	1803434.79	1131268.11	197+16.99	62.28
210	1803441.78	1131267.75	197+16.99	52.28
211	1803456.68	1131480.72	199+30.25	47.87
212	1803452.25	1131480.86	199+30.23	52.28
213	1803294.30	1131485.94	199+29.77	210.31
214	1803293.97	1131475.53	199+19.85	210.28
215	1803441.89	1131470.79	199+19.80	62.28

LINE	DIRECTION	DISTANCE
L1	S 01° 20' 25" E	14.48
L2	S 81° 59' 30" W	25.20
L3	N 02° 00' 28" W	14.49
L4	N 88° 00' 31" E	25.24
L5	S 01° 50' 31" E	4.44
L6	E 87° 59' 32" W	124.25
L7	N 88° 05' 06" W	65.57
L8	N 88° 00' 11" E	189.61
L9	S 01° 50' 25" E	10.00
L10	S 81° 59' 32" W	38.21
L11	N 02° 00' 28" W	10.00
L12	N 87° 59' 32" E	38.24
L13	S 01° 50' 25" E	4.41
L14	S 88° 59' 53" W	10.42

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT ACRES	AREA SQUARE FEET	PARCEL INDEX NUMBER
OK30001TE	0.442±	N/A	N/A	0.442±	0.008±	365	27-13-205-004
OK30002	0.836±	0.016±	N/A	0.820±	0.009±	362	27-13-205-005
OK30003	0.703±	0.018±	N/A	0.685±	0.076±	N/A	27-13-205-002

**IDOT USE ONLY**

**PLAT OF HIGHWAYS**  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
IL 43 (HARLEM AVE)

LIMITS: AT 151ST STREET COUNTY: COOK  
SECTION: 13 JOB NO: R-90-002-14  
STA. 195+22.00 TO STA. 199+30.25  
SCALE: 1" = 40' SHEET 2 OF 2 SHEETS

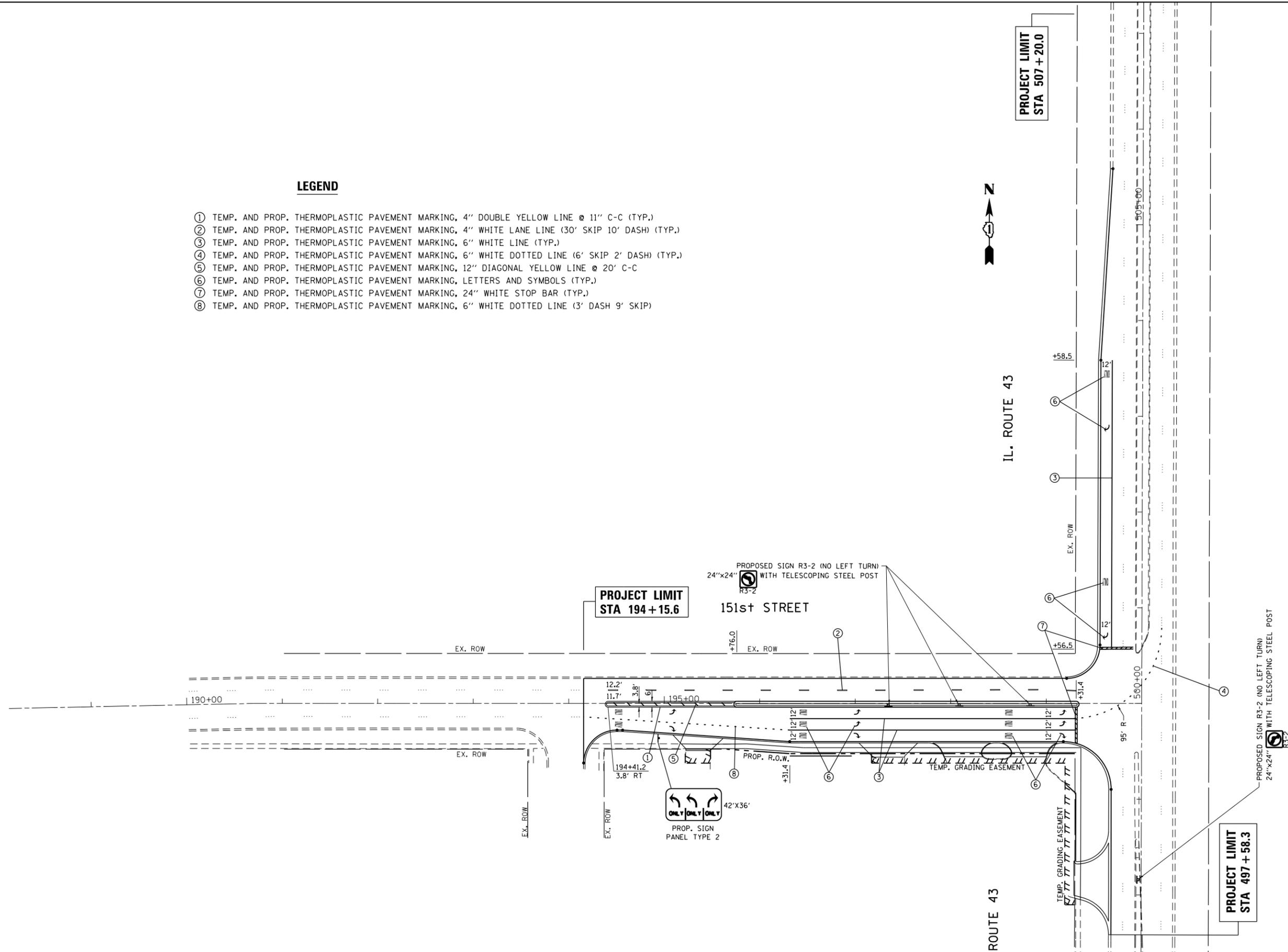
BUREAU OF LAND ACQUISITION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

RECEIVED  
MAR 26 2015  
PLATS & LEGALS

REVISION DATE: 10/29/2013 REVISION MADE BY: JB

**LEGEND**

- ① TEMP. AND PROP. THERMOPLASTIC PAVEMENT MARKING, 4" DOUBLE YELLOW LINE @ 11" C-C (TYP.)
- ② TEMP. AND PROP. THERMOPLASTIC PAVEMENT MARKING, 4" WHITE LANE LINE (30' SKIP 10' DASH) (TYP.)
- ③ TEMP. AND PROP. THERMOPLASTIC PAVEMENT MARKING, 6" WHITE LINE (TYP.)
- ④ TEMP. AND PROP. THERMOPLASTIC PAVEMENT MARKING, 6" WHITE DOTTED LINE (6' SKIP 2' DASH) (TYP.)
- ⑤ TEMP. AND PROP. THERMOPLASTIC PAVEMENT MARKING, 12" DIAGONAL YELLOW LINE @ 20' C-C
- ⑥ TEMP. AND PROP. THERMOPLASTIC PAVEMENT MARKING, LETTERS AND SYMBOLS (TYP.)
- ⑦ TEMP. AND PROP. THERMOPLASTIC PAVEMENT MARKING, 24" WHITE STOP BAR (TYP.)
- ⑧ TEMP. AND PROP. THERMOPLASTIC PAVEMENT MARKING, 6" WHITE DOTTED LINE (3' DASH 9' SKIP)



FILE NAME =	USER NAME = STREATERJR	DESIGNED -	REVISED -
ct:\pw\work\p\dot\streater_jr\0304669\24412-sh-t-pmk.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/15/2015	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN / SIGNING PLAN  
IL. ROUTE 43 AT 151st STREET**

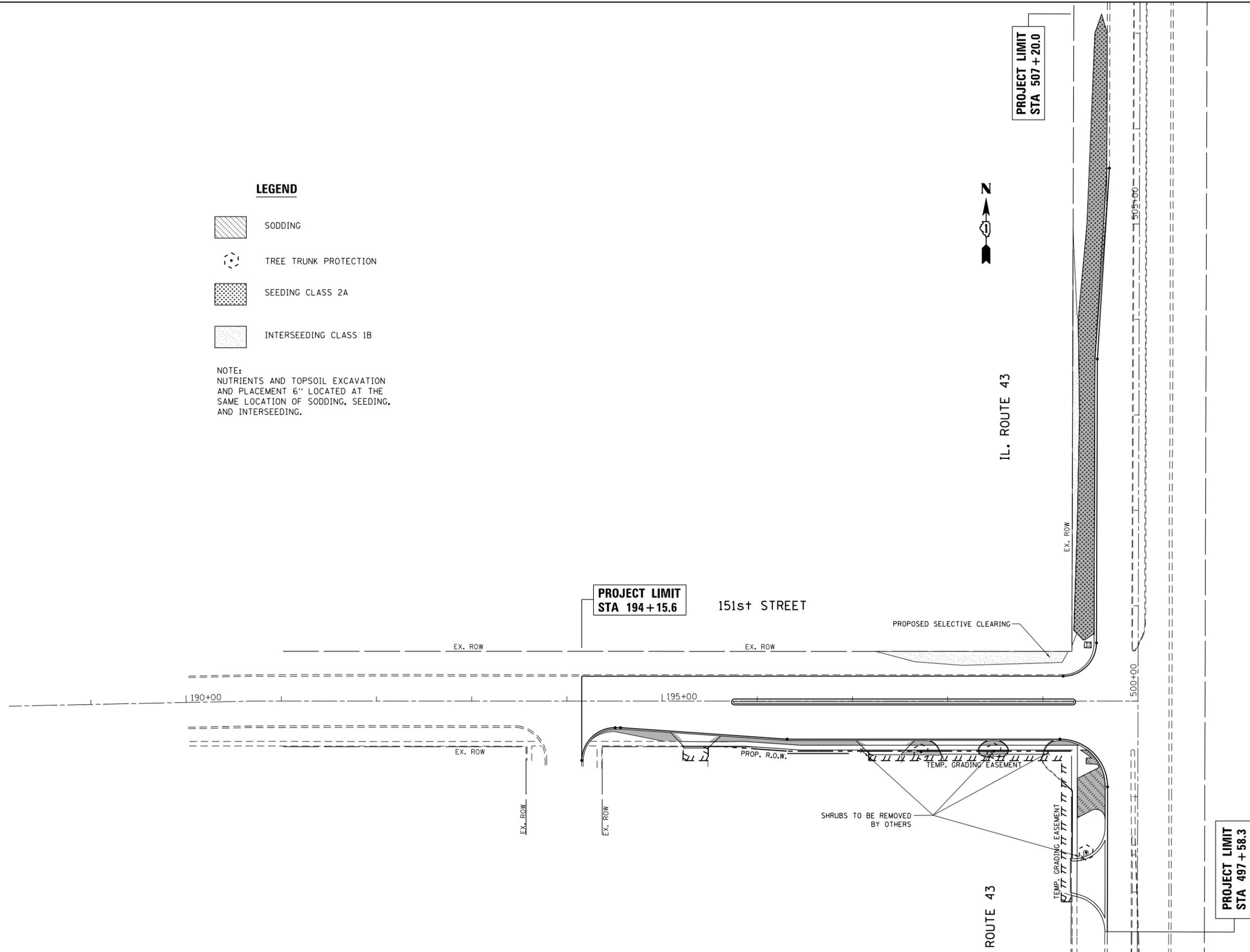
SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(3127-1N-1(14)	COOK	69	31
CONTRACT NO. 60X85				
ILLINOIS FED. AID PROJECT				

**LEGEND**

-  SODDING
-  TREE TRUNK PROTECTION
-  SEEDING CLASS 2A
-  INTERSEEDING CLASS 1B

NOTE:  
NUTRIENTS AND TOPSOIL EXCAVATION  
AND PLACEMENT 6" LOCATED AT THE  
SAME LOCATION OF SODDING,  
SEEDING, AND INTERSEEDING.



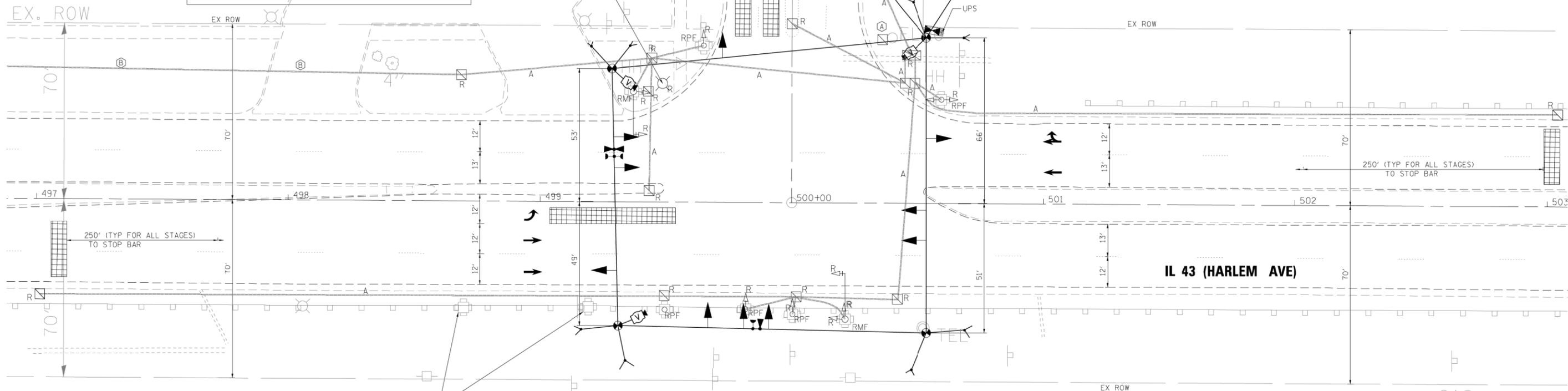
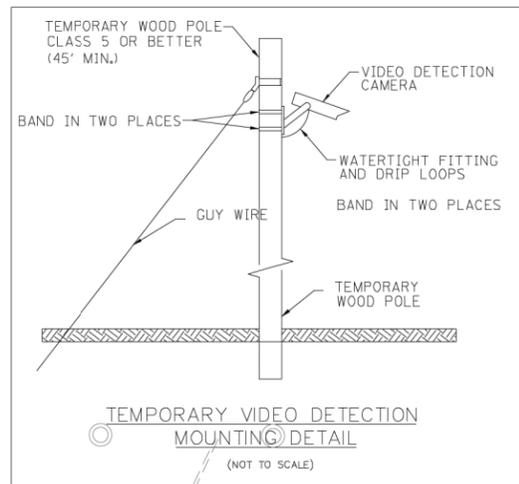
FILE NAME =	USER NAME = STREATERJR	DESIGNED -	REVISED -
ct:\pw\work\p\idot\streater_jr\d0304669\F24412-sh1-Indsep.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/15/2015	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>LANDSCAPING PLAN</b>			
<b>IL. ROUTE 43 AT 151st STREET</b>			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(3127-1N-1(14)	COOK	69	32
CONTRACT NO. 60X85				
ILLINOIS FED. AID PROJECT				





**RED LIGHT RUNNING SYSTEM NOTES:**

DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA WITHIN THE PROJECT LIMITS, CONTRACTOR SHALL NOTIFY THE VILLAGE OF ORLAND PARK AND THE GATSO USA, INC PRIOR TO THE START OF CONSTRUCTION.

1. THE EXISTING RED LIGHT SYSTEM OWNED BY THE VILLAGE OF ORLAND PARK WILL BE DEACTIVATED DURING CONSTRUCTION.
2. THE CONTRACTOR SHALL NOTIFY MR. TIM MCCORMICK AT 708-364-8111 NOT LESS THAN 72 HOURS IN ADVANCE OF CONSTRUCTION TO ALLOW THE VILLAGE OF ORLAND PARK/GATSO USA INC. TO REMOVE THE EXISTING RED LIGHT RUNNING EQUIPMENT. ALL COSTS ASSOCIATED WITH THE REMOVAL AND REPLACEMENT OF THE RED LIGHT RUNNING EQUIPMENT ARE RESPONSIBILITY OF THE VILLAGE OF ORLAND PARK.

RED LIGHT RUNNING CAMERA REMOVED BY OTHERS

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

**CONSTRUCTION NOTES**

- (A) EXISTING HANDHOLE TO BE REMAIN
- (B) EXISTING CONDUIT TO BE REMAIN

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

AGENCY: ORLAND FIRE DISTRICT

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER

**REMOVAL NOTES**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE OF THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE. SEE THE SPECIAL PROVISION FOR DISPOSITION OF SALVAGED TRAFFIC SIGNAL EQUIPMENT.

- 1 EACH CONTROLLER AND CABINET COMPLETE
- 2 EACH MAST ARM ASSEMBLY AND POLE
- 5 EACH SIGNAL POST
- 9 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 2 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 9 EACH HANDHOLE
- 1 EACH DOUBLE HANDHOLE
- 1 EACH ELECTRIC SERVICE INSTALLATION
- 4 EACH TRAFFIC SIGNAL BACKPLATE



FILE NAME = P:\2012\ME12014\_PTB162\_18\_Schwarz\CADD\7-60X85-IL43 at 151st\Shots\0160X85-SHT-TS01.Temp.dgn  
 PLOT SCALE = 40.00000' / in.  
 USER NAME = Millennium Professional Services



2600 Warrenville Road, Suite 203, Downers Grove, IL 60515-1761  
 630.705.0110 voice, 630.839.2566 fax  
 www.mps-il.com

**MILLENNIA PROFESSIONAL SERVICES**

DESIGNED - JNP	REVISED -
DRAWN - RAW	REVISED -
CHECKED - TVN	REVISED -
DATE - 5/1/2015	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

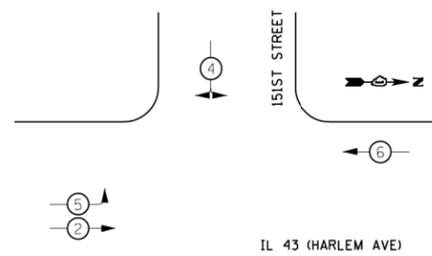
**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND  
 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN  
 IL RTE 43 (HARLEM AVE) AT 151ST STREET**

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

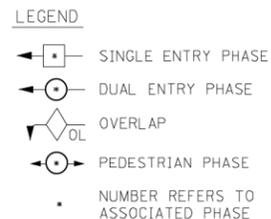
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	(3127-1JN-1(14))	COOK	69	34
CONTRACT NO. 60X85			TS#2240	

F:\2012\ME12014\_PTB162\_18\_Schwarz\CADD\7-60X85-IL43 at 151st\Shots\0160X85-SHT-TS01.Temp.dgn

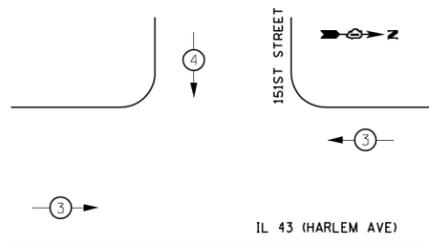
**PROPOSED CONTROLLER SEQUENCE**



**PHASE DESIGNATION DIAGRAM**



**EMERGENCY VEHICLE PREEMPTION SEQUENCE**

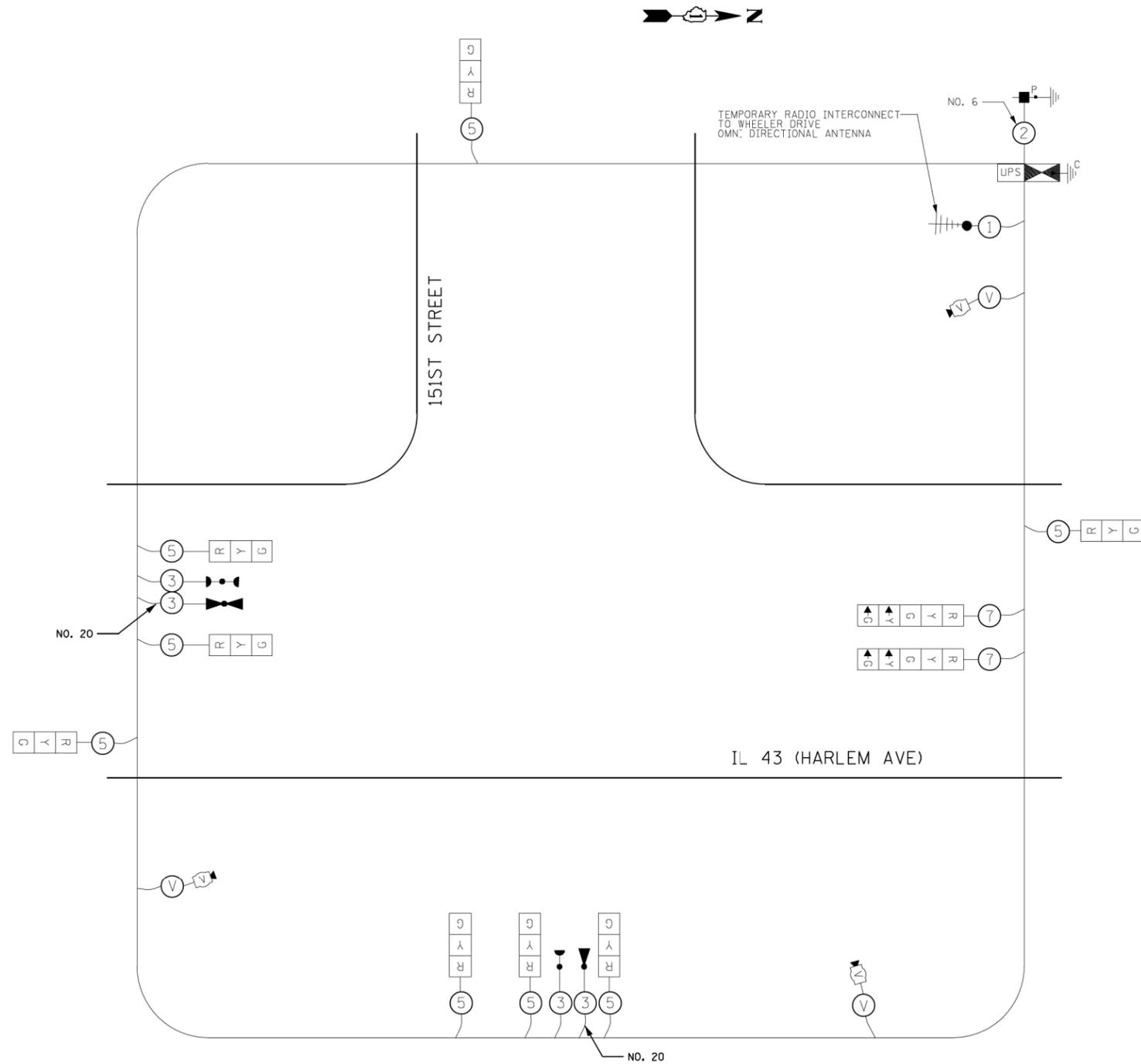


I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. OF LAMPS x	WATTAGE L.E.D.	OPERATION	
SIGNAL (RED)	10	17	0.50	85
(YELLOW)	10	25	0.25	62.5
(GREEN)	10	15	0.25	37.5
ARROW	4	12	0.10	4.8
PED. SIGNAL		25	1.00	
CONTROLLER	1	100	1.00	100
ILLUM. SIGN		120	0.05	
TOTAL				439.8

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS/DISTRICT 1  
 201 W. CENTER CT/SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY - CONTACT: LLYAS MOHIUDDIN  
 PHONE: 708-235-2692  
 COMPANY: COMMONWEALTH EDISON

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.



**TEMPORARY CABLE PLAN**

FILE NAME = \*FILE\*  
 PLOT SCALE = \*SCALE\*  
 USER NAME = \*USER NAME\*



2600 Warrenville Road, Suite 203, Downers Grove, IL 60515-1761  
 630.705.0110 voice, 630.839.2566 fax  
 www.mps-il.com

**MILLENNIA PROFESSIONAL SERVICES**

DESIGNED - JNP	REVISED -
DRAWN - RAW	REVISED -
CHECKED - TVN	REVISED -
DATE - *DATE*	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL CABLE PLAN, PHASE DESIGNATION DIAGRAM  
 AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
 IL RTE 43 (HARLEM AVE) AT 151ST STREET**

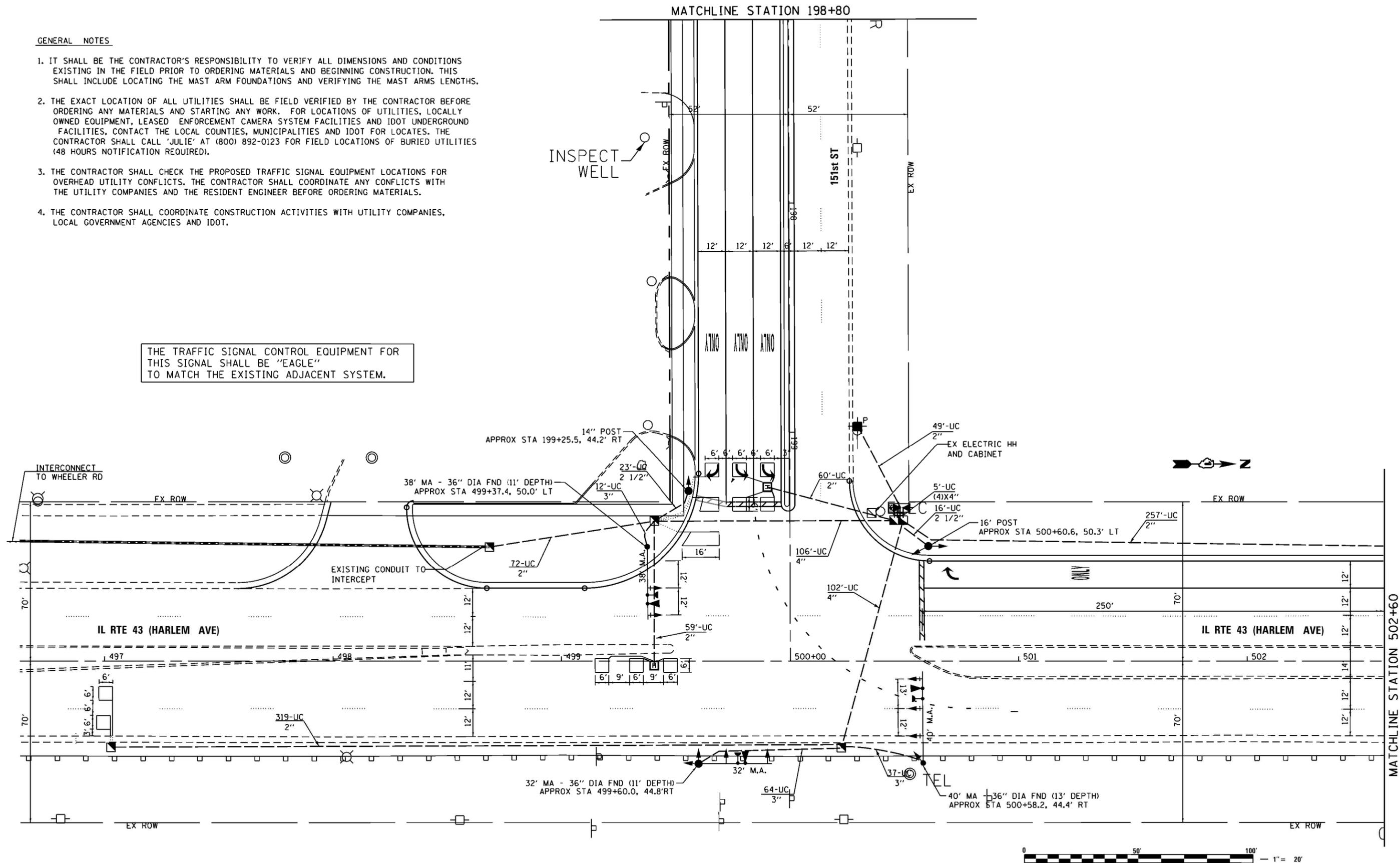
SCALE: - SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	(3127-1N-1(14))	COOK	69	35
CONTRACT NO. 60X85			TS#2240	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARMS LENGTHS.
2. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
3. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SIGNAL SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.



FILE NAME = 06100000  
 PLOT SCALE = 1/4" = 20'  
 USER NAME = P362999000

2600 Warrenville Road, Suite 203, Downers Grove, IL 60515-1761  
 630.705.0110 voice, 630.839.2566 fax  
 www.mps-il.com

**MILLENNIA PROFESSIONAL SERVICES**

DESIGNED - JNP	REVISED -
DRAWN - RAW	REVISED -
CHECKED - TVN	REVISED -
DATE - 5/1/2015	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 1 OF 2)  
 IL RTE 43 (HARLEM AVE) AT 151ST STREET**

SCALE: 1"=20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

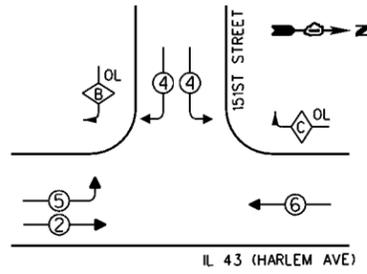
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	(3127-1W-1(14))	COOK	69	36
CONTRACT NO. 60X85				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TS#2240

MATCHLINE STATION 502+60

MATCHLINE STATION 198+80

**PROPOSED CONTROLLER SEQUENCE**

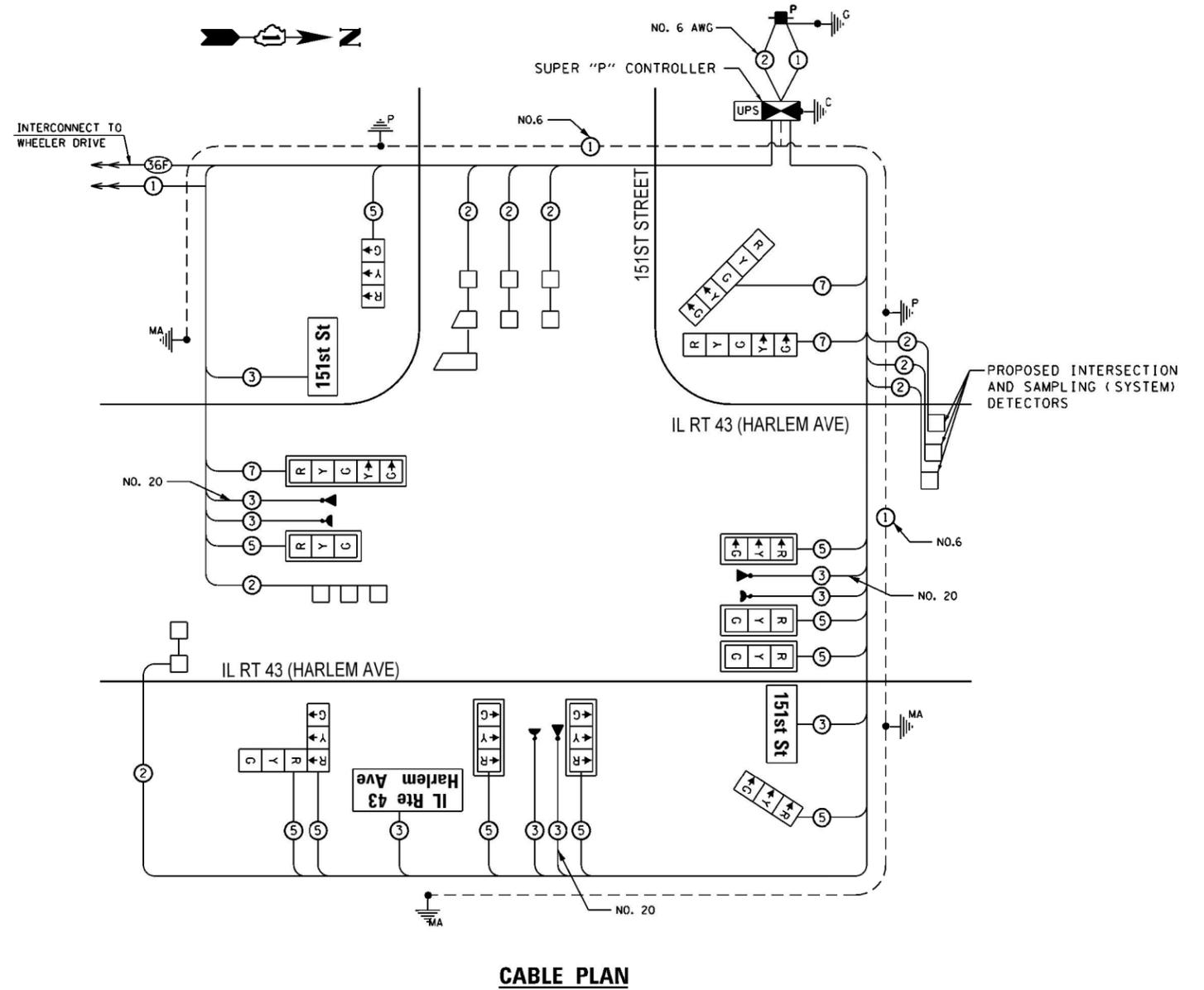
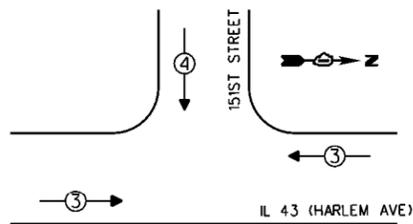


- LEGEND**
- ◻ SINGLE ENTRY PHASE
  - ◉ DUAL ENTRY PHASE
  - ◊ OL OVERLAP
  - ◉ PEDESTRIAN PHASE
  - NUMBER REFERS TO ASSOCIATED PHASE

**PHASE DESIGNATION DIAGRAM**

OVERLAP LETTER	=	PERMISSIVE PHASE	+	PROTECTED PHASE
B	=	4	+	5
C	=	4	+	7

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**CABLE PLAN**

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SIGNAL SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. OF LAMPS x	WATTAGE L.E.D.	OPERATION	
SIGNAL (RED)	13	17	0.50	110.5
(YELLOW)	13	25	0.25	81.25
(GREEN)	13	15	0.25	48.75
ARROW	6	12	0.10	7.2
PED. SIGNAL	0	25	1.00	
CONTROLLER	1	100	1.00	100
ILLUM. SIGN	3	120	0.05	18
VIDEO SYSTEM		150	1.00	
FLASHER			0.50	
<b>TOTAL</b>				<b>365.7</b>

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS/DISTRICT 1  
201 W. CENTER CT./SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY - CONTACT: LLYAS MOHIUDDIN  
PHONE: 708-235-2692  
COMPANY: COMMONWEALTH EDISON

FILE NAME = #FILE#  
PLOT SCALE = 48/8888 / 1"  
USER NAME = #USER#



2600 Warrenville Road, Suite 203, Downers Grove, IL 60515-1761  
630.705.0110 voice, 630.839.2566 fax  
www.mps-il.com

**MILLENNIA PROFESSIONAL SERVICES**

DESIGNED - JNP	REVISED -
DRAWN - RAW	REVISED -
CHECKED - TVN	REVISED -
DATE - 5/1/2015	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL 43 (HARLEM AVE) AT 151ST STREET**

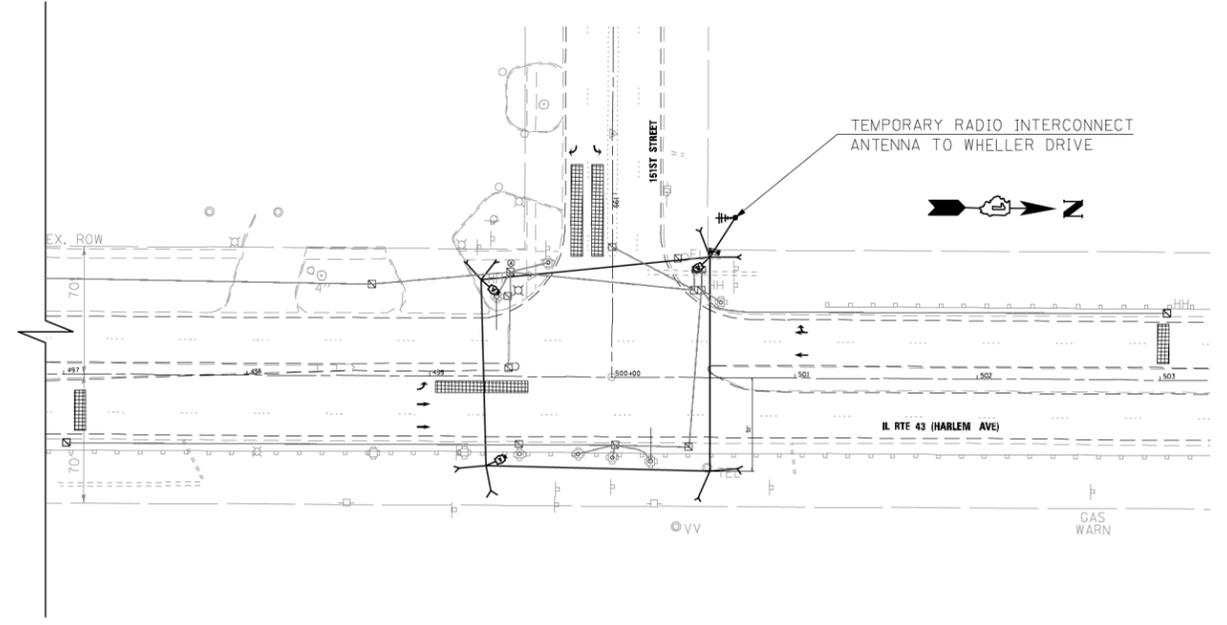
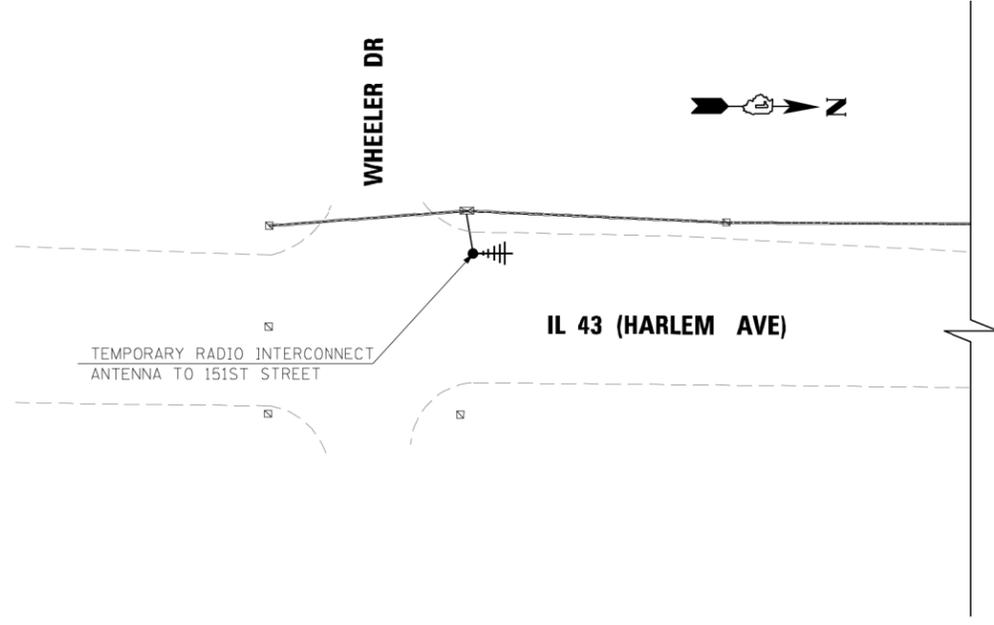
SCALE: 1"=20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	(3127-1W-1(14)	COOK	69	37
<b>CONTRACT NO. 60X85</b>				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

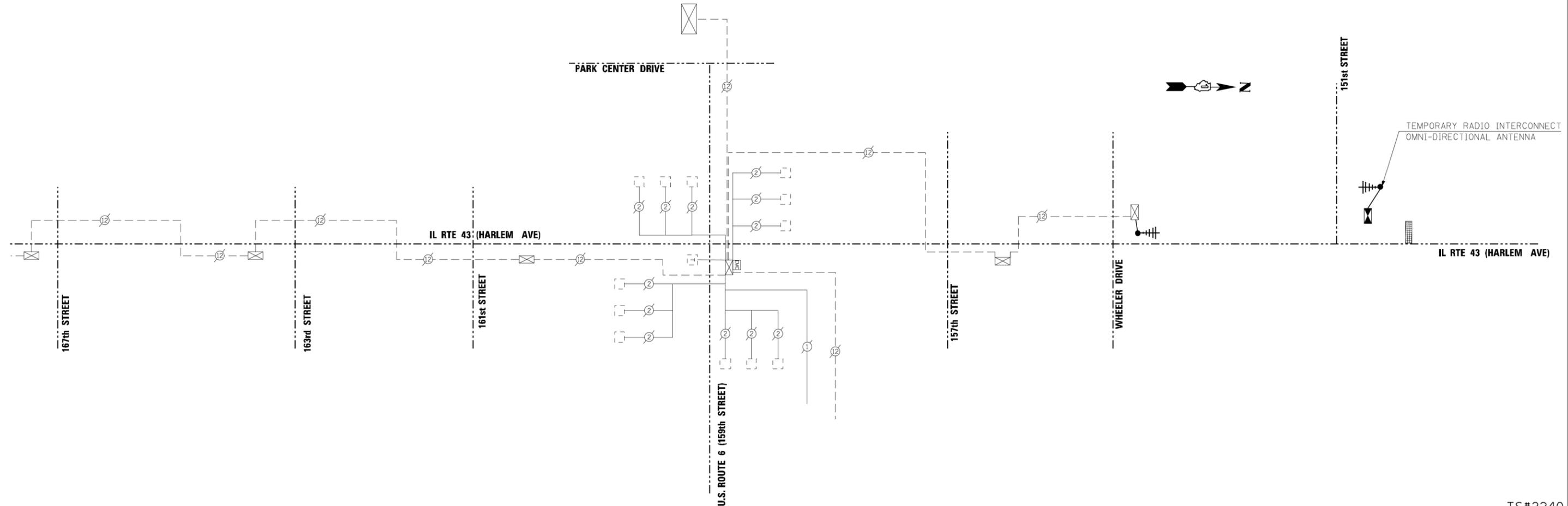
TS#2240

#FILE#





**TEMPORARY INTERCONNECT SCHEMATIC**



FILE NAME = P:\2012\ME12014\_PTB162\_1E\_Schwartz\CADD\7-60X85\_IL43 at 151st\Shots\0160X85-SHT-TS07\_TempInterconnect\_Plan.dgn  
 PLOT SCALE = 1/8"=1'-0"  
 USER NAME = Millennium Professional Services



2600 Warrenville Road, Suite 203, Downers Grove, IL 60515-1761  
 630.705.0110 voice, 630.839.2566 fax  
 www.mps-il.com  
**MILLENNIA PROFESSIONAL SERVICES**

DESIGNED - JNP	REVISED -
DRAWN - RAW	REVISED -
CHECKED - TVN	REVISED -
DATE - 4/21/2015	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT SYSTEM/SCHEMATIC PLAN  
 IL ROUTE 43 (HARLEM RD) AT 159TH STREET**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	(3127-1N-1(14)	COOK	69	39
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X85	

TS#2240

**NOTES**

1. REMOVAL OF FIBER OPTIC CABLE SHALL NOT BEGIN UNTIL ALL COMPONENTS OF THE TEMPORARY WIRELESS INTERCONNECT SYSTEM ARE IN PLACE AND OPERATIONAL.
2. TEMPORARY INTERCONNECT SHALL NOT BE REMOVED UNTIL PERMANENT FIBER INTERCONNECT IS INSTALLED AND OPERATIONAL.
3. SEE TRAFFIC SIGNAL SPECIFICATIONS AND SPECIAL PROVISIONS FOR MORE INFORMATION.



IL. ROUTE 43

WHEELER DRIVE

253'-E  
2"

MATCHLINE A

MATCHLINE A



154th STREET

810'-E  
2"

153rd STREET

560'-E  
2"

IL. ROUTE 43

MATCHLINE B

**RESTORATION OF WORK AREA**

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



IL. ROUTE 43

152ND ST.

151st STREET

INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

270'-E  
2"

300'-E  
2"

280'-E  
2"

72'-UC  
2"

253'-E  
2"

107'-E  
4"

IL. ROUTE 43

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SIGNAL SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME = P:\2012\ME12014\_PTB162\_18\_Schwartz\CADD\7-60X85\_IL43 at 151st\Shots\0160X85-SHT-TS08-Interconnect.dgn  
 PLOT SCALE = 1/8"=1'-0"  
 USER NAME = Millennium Professional Services



2600 Warrenville Road, Suite 203, Downers Grove, IL 60515-1761  
 630.705.0110 voice, 630.839.2566 fax  
 www.mps-il.com  
**MILLENNIA PROFESSIONAL SERVICES**

DESIGNED - JNP	REVISED -
DRAWN - RAW	REVISED -
CHECKED - TVN	REVISED -
DATE - 4/21/2015	REVISED -

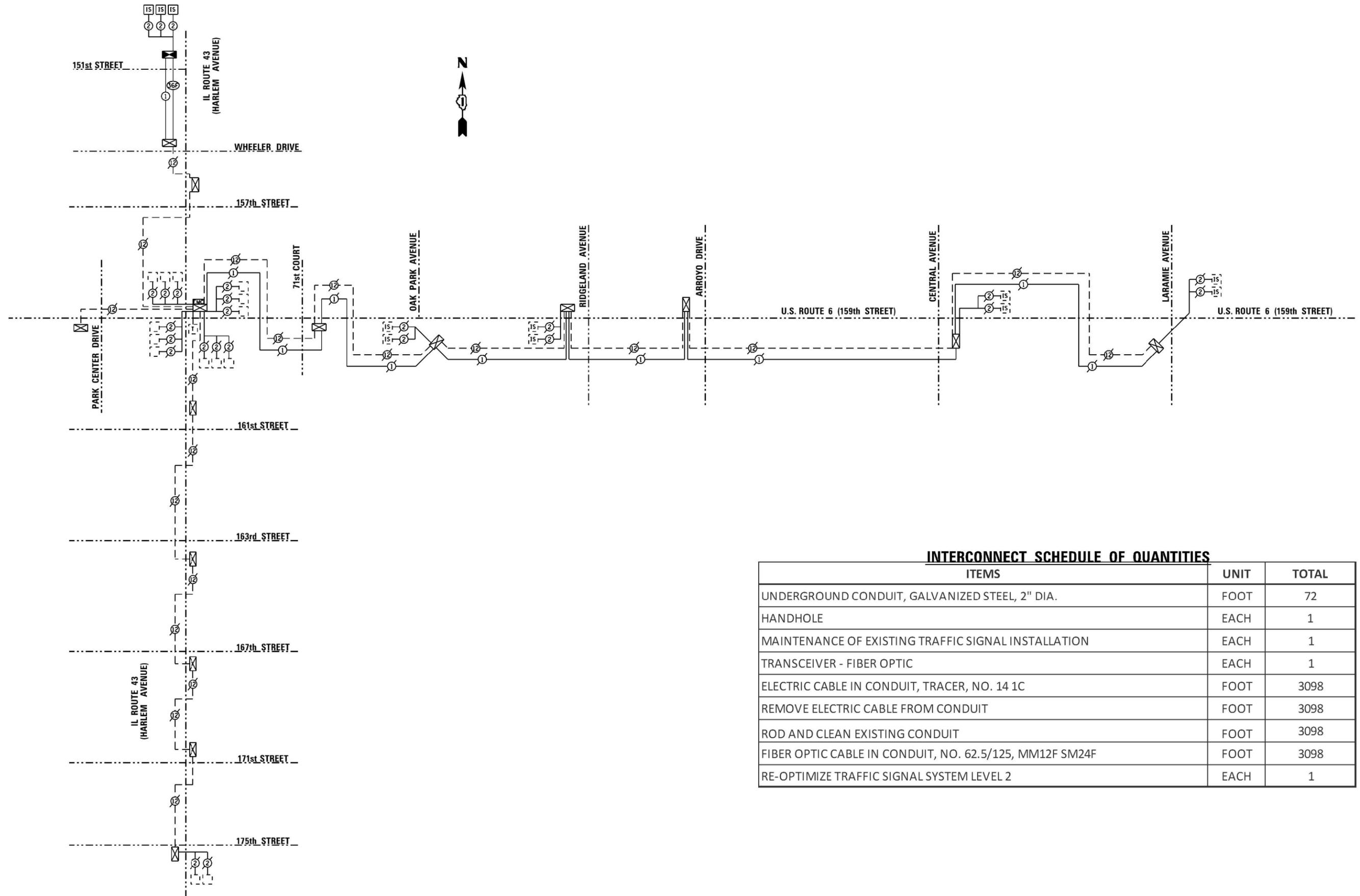
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN (EAGLE 3C)  
 IL ROUTE 43 (HARLEM RD) AT 151ST STREET**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	(3127-1N-1(14))	COOK	69	40
CONTRACT NO. 60X85				

TS#2240



**INTERCONNECT SCHEDULE OF QUANTITIES**

ITEMS	UNIT	TOTAL
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	72
HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3098
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3098
ROD AND CLEAN EXISTING CONDUIT	FOOT	3098
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	3098
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1

FILE NAME : 06060000  
 PLOT SCALE : 1/8" = 1'-0"  
 USER NAME : P:\6060000



2600 Warrenville Road, Suite 203, Downers Grove, IL 60515-1761  
 630.705.0110 voice, 630.839.2566 fax  
 www.mps-il.com

**MILLENNIA PROFESSIONAL SERVICES**

DESIGNED - JNP	REVISED -
DRAWN - RAW	REVISED -
CHECKED - TVN	REVISED -
DATE - 5/1/2015	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

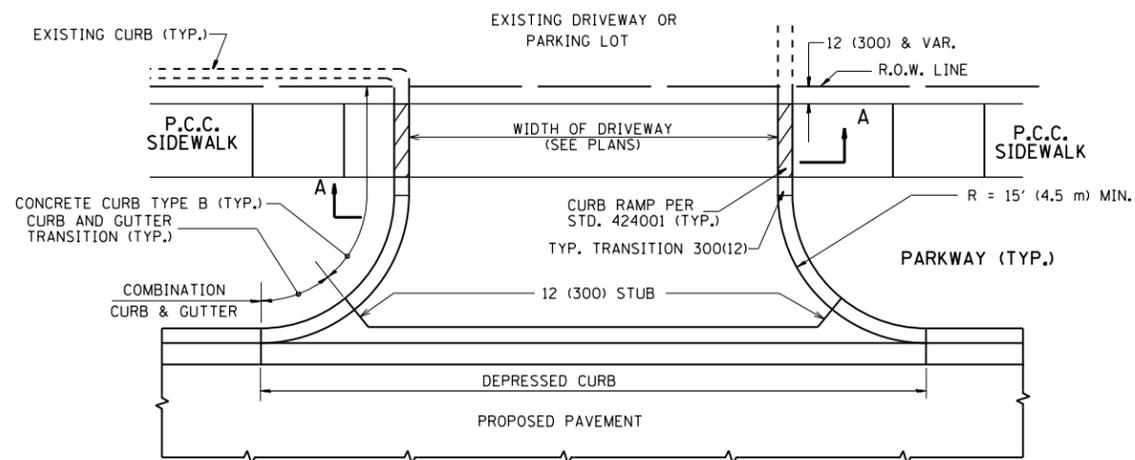
**INTERCONNECT SCHEMATIC (EAGLE 3C)  
 IL RTE 43 (HARLEM AVE) AT 151ST STREET**

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

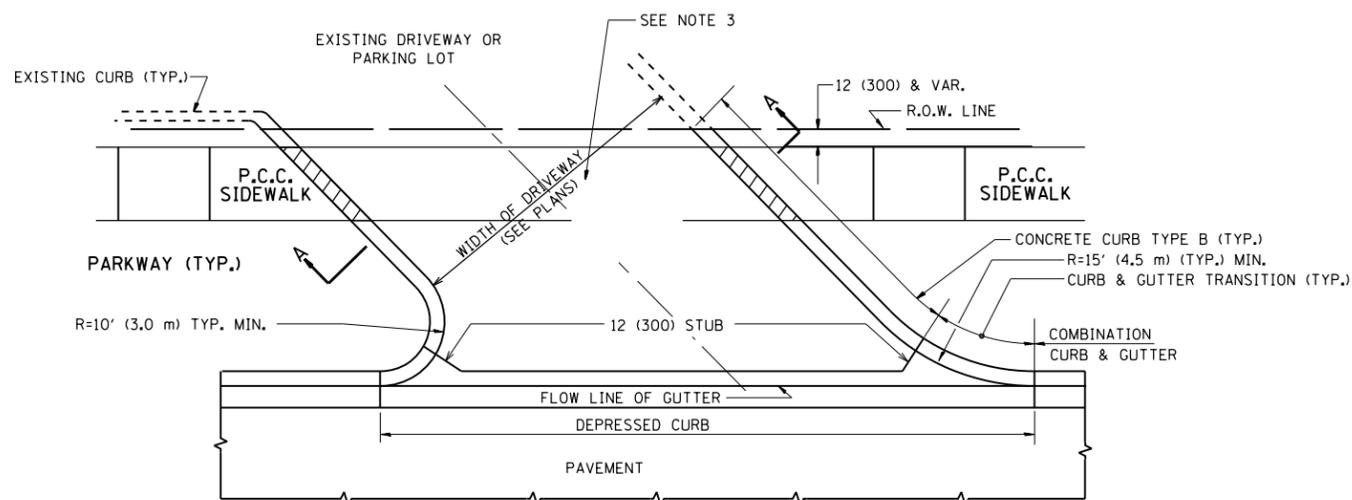
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	(3127-1W-1(14))	COOK	69	41
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X85	

TS#2240

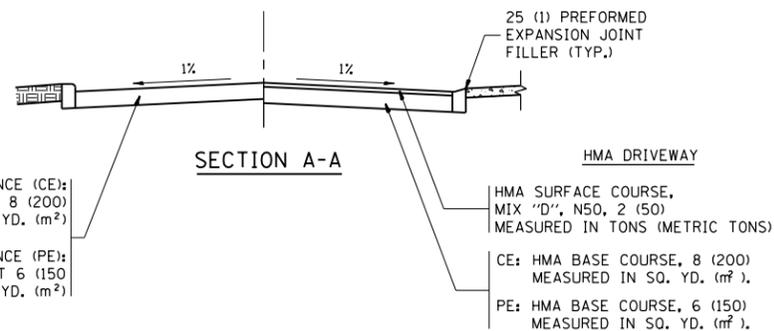
#FILES



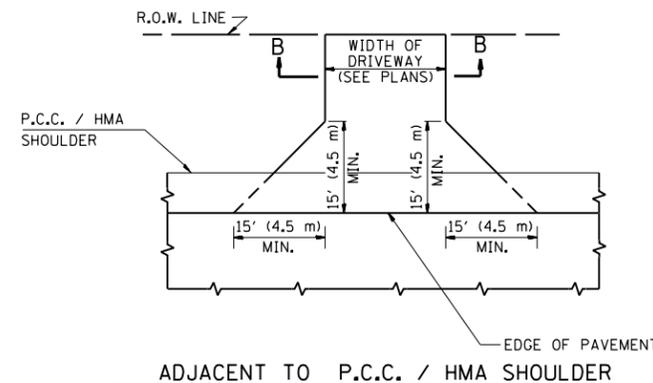
WITH CONCRETE CURB, TYPE B



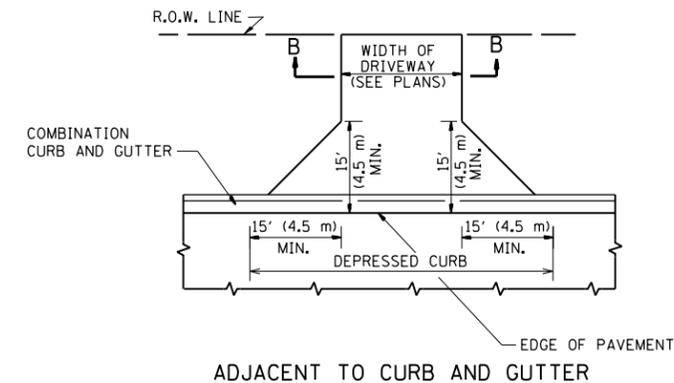
WITH CONCRETE CURB, TYPE B



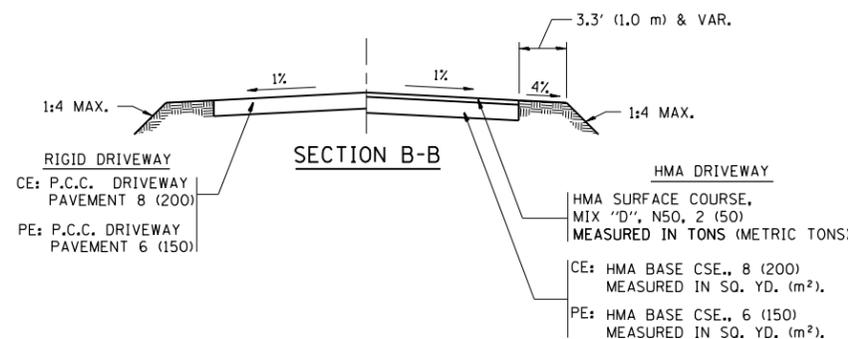
SECTION A-A



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



SECTION B-B

RURAL FIELD ENTRANCE (FE)

**GENERAL NOTES:**

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

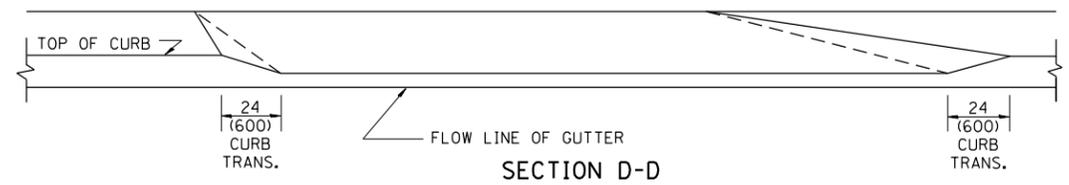
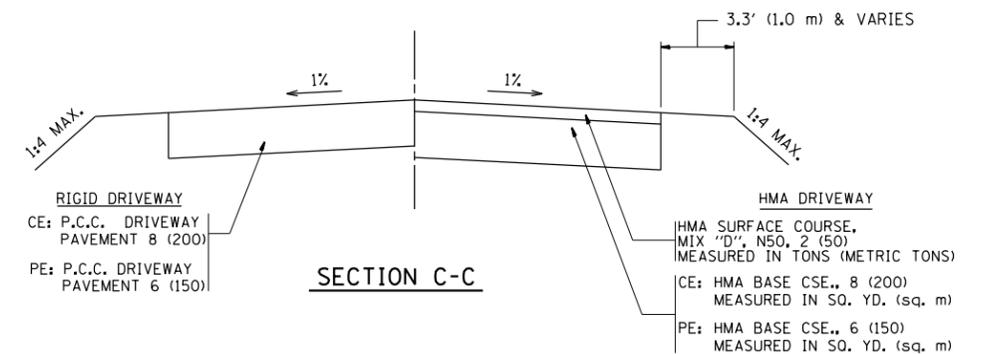
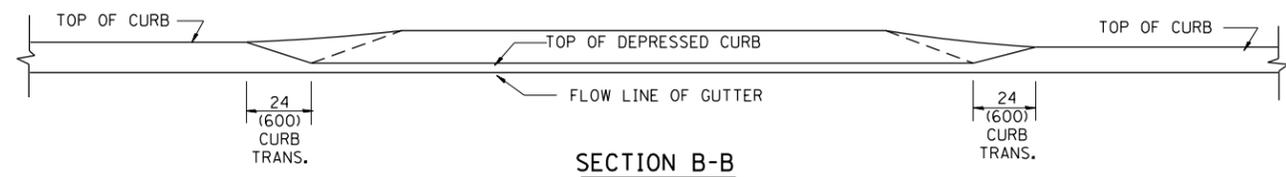
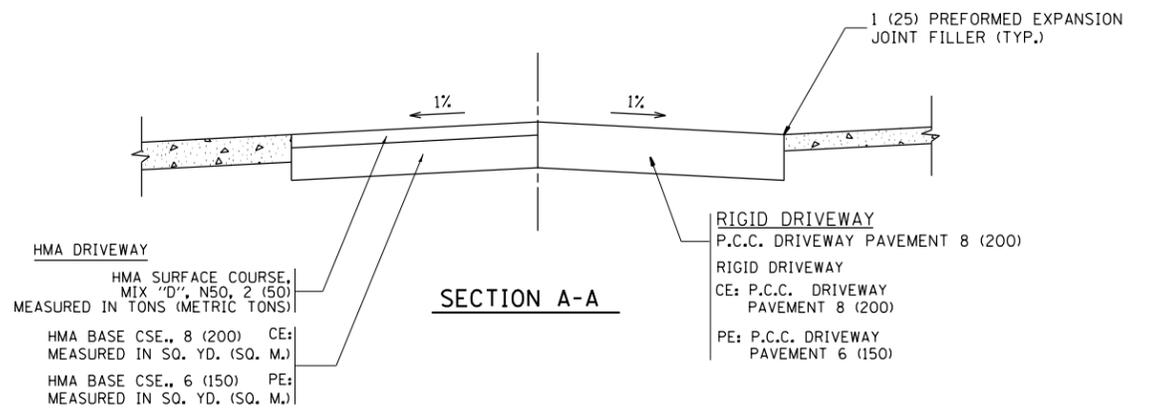
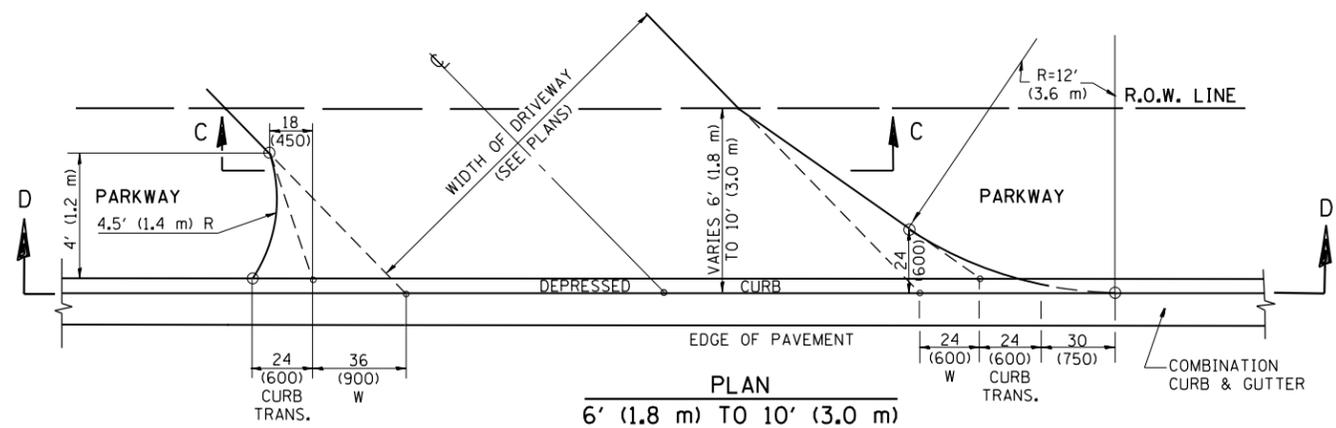
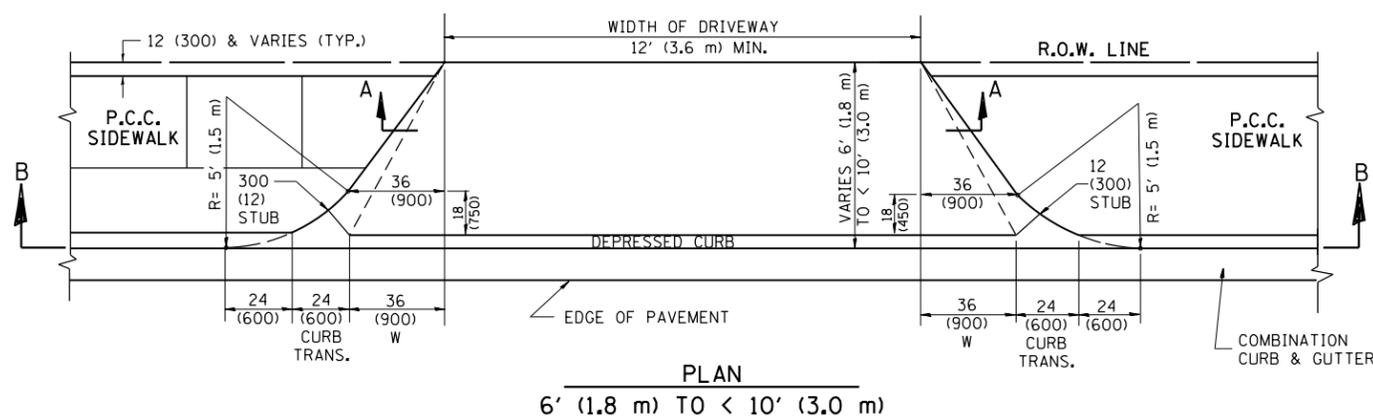
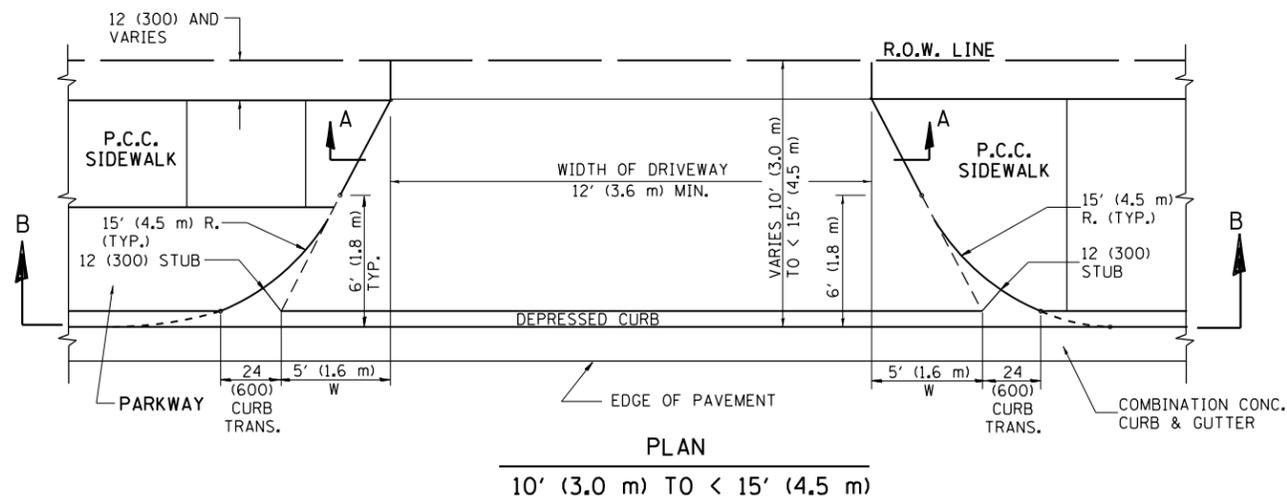
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

FILE NAME =	USER NAME = STREATERJR	DESIGNED - R. SHAH	REVISED - P. LaFLUER 04-15-03
et:\pw\work\p\idot\streater_jr\0304670\DistStd.dgn		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 100.0002' / in.	CHECKED -	REVISED - R. BORO 06-11-08
	PLOT DATE = 5/15/2015	DATE - 11-04-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(3127-1N-1(14)	COOK	69	42
BD0156-07 (BD-01)		CONTRACT NO. 60X85		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**GENERAL NOTES**

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

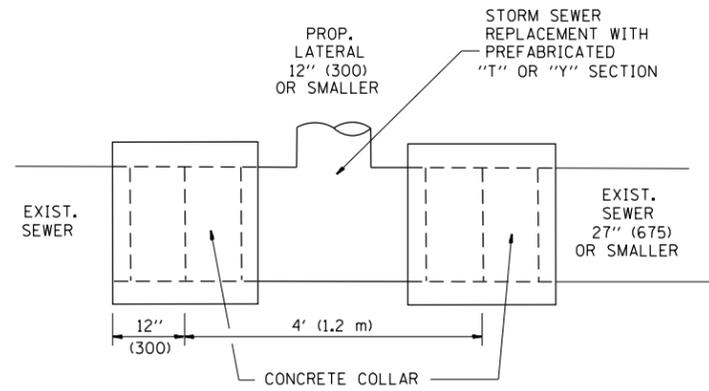
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

FILE NAME =	USER NAME = STREATERJR	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01
ei:\pw_work\p\pidot\streater jr\d0304670\DistStd.dgn		DRAWN -	REVISED - P. LaFLEUR 04-15-03
	PLOT SCALE = 100.0002' / 1"	CHECKED -	REVISED - R. BORO 01-01-07
	PLOT DATE = 5/15/2015	DATE - 11-06-95	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

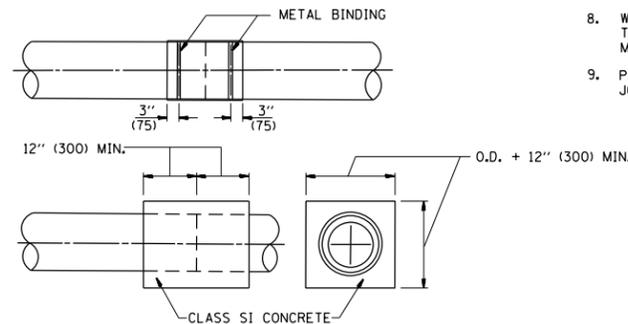
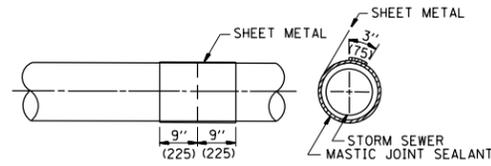
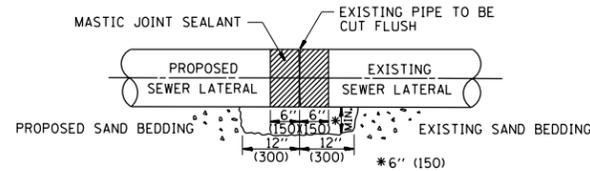
DRIVEWAY DETAILS			
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(3127-1N-1(14)	COOK	69	43
BD400-02 (BD-02)			CONTRACT NO. 60X85	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**DETAIL "A"**

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER



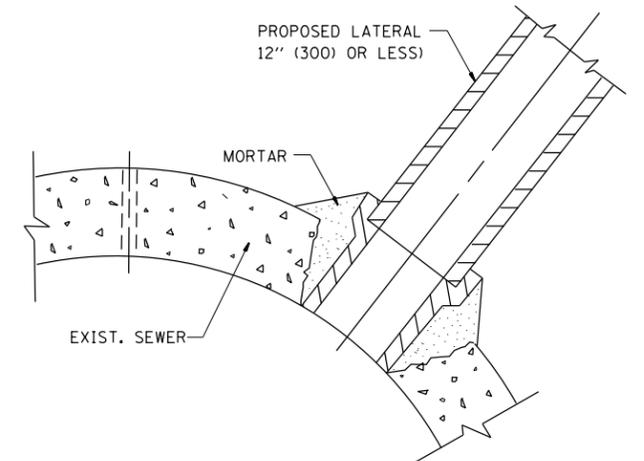
**DETAIL "B"**

CLASS SI CONCRETE COLLAR

**CONSTRUCTION SEQUENCE**

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.

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



**DETAIL "C"**

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

**NOTES**

**MATERIAL**

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

**CONSTRUCTION METHODS**

- THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
  - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
  - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

**GENERAL**

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

**BASIS OF PAYMENT**

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

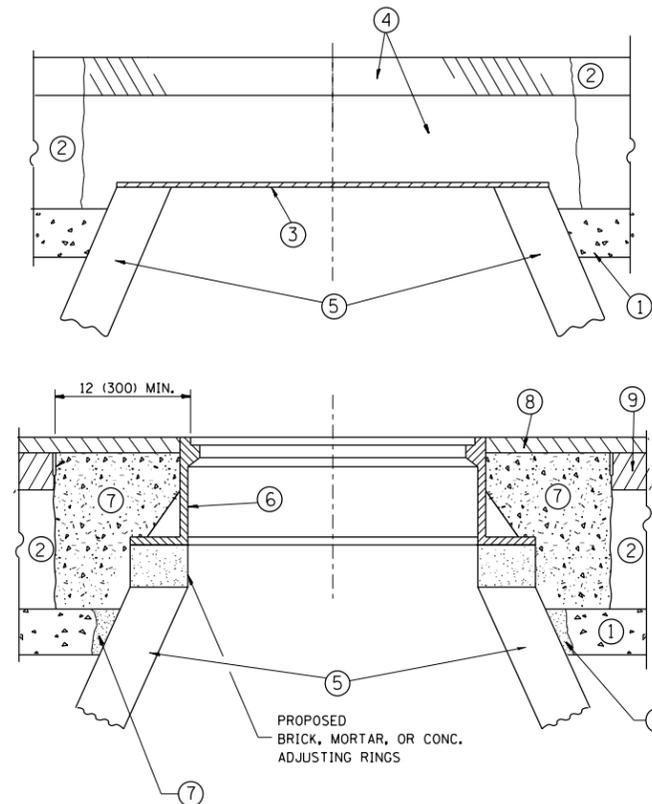
CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

FILE NAME =	USER NAME = STREATERJR	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92
et:\pw\work\p\d0304670\DetStd.dgn		DRAWN -	REVISED - R. SHAH 09-09-94
	PLOT SCALE = 100.0002' / 1"	CHECKED -	REVISED - R. SHAH 10-25-94
	PLOT DATE = 5/15/2015	DATE - 07-25-90	REVISED - R. SHAH 06-12-96

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(3127-1N-1(14))	COOK	69	44
<b>BD500-01 (BD-7)</b>		<b>CONTRACT NO. 60X85</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**CONSTRUCTION PROCEDURES**

**STAGE 1 (BEFORE PAVEMENT MILLING)**

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (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 PP-1\* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

\* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

**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 PP-1\* CONCRETE
- 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:**

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

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 =	USER NAME = STREATERJR	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04
c:\pwork\pwork\streater_jr\d0304670\DetStd.dgn		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 100.0002' / in.	CHECKED -	REVISED - R. BORO 03-09-11
	PLOT DATE = 5/15/2015	DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(3127-1N-1(14)	COOK	69	45
<b>BD600-03 (BD-8)</b>		<b>CONTRACT NO. 60X85</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001  
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

18" (450) MAX.

1/4" (5) \*\*

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

\* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

\*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

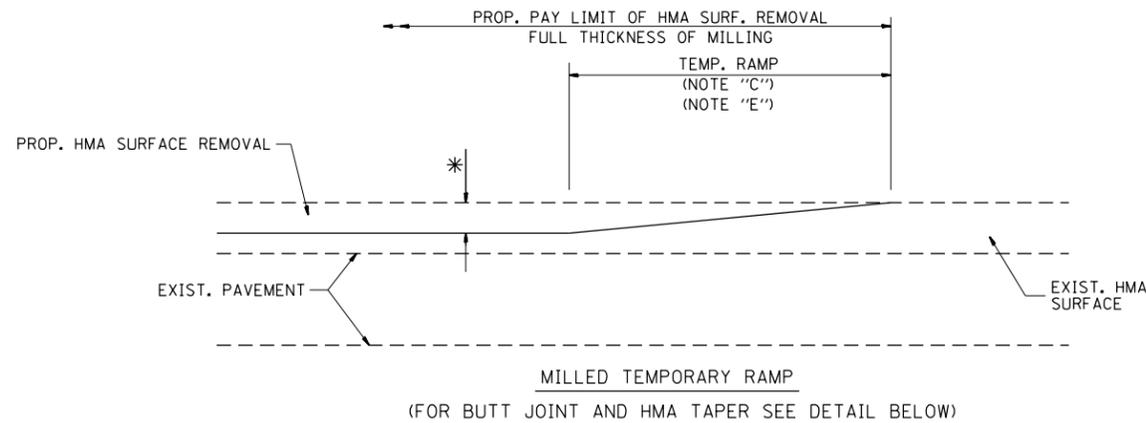
PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

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

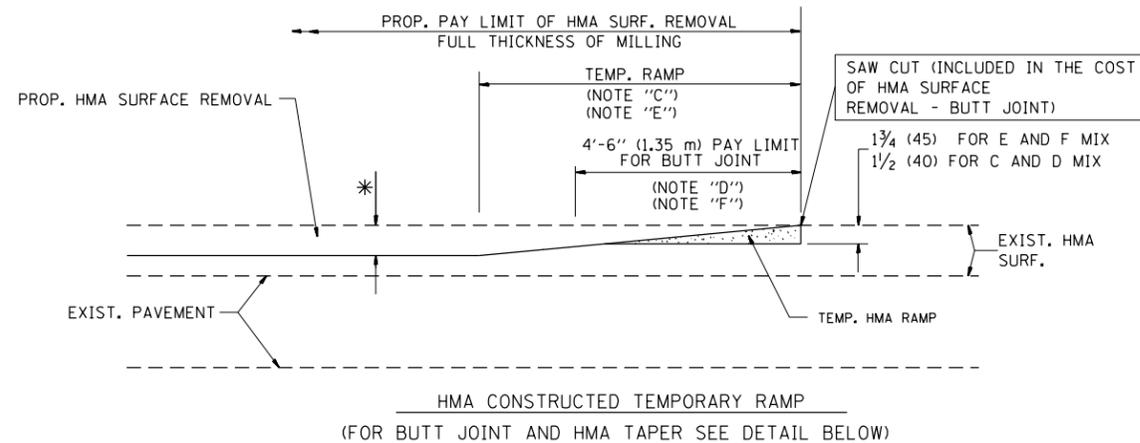
# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME =	USER NAME = STREATERJR	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ei:\pw\work\p\id\streater_jr\0304670\DistStd.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97	REVISED - M. GOMEZ 01-22-01			348	(3127-1N-1(14)	COOK	69	46
PLOT SCALE = 100.0002' / in.	CHECKED -	REVISED - R. BORO 12-15-09				<b>BD600-06 (BD-24)</b>		<b>CONTRACT NO. 60X85</b>		
PLOT DATE = 5/15/2015	DATE - 03-11-94					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT

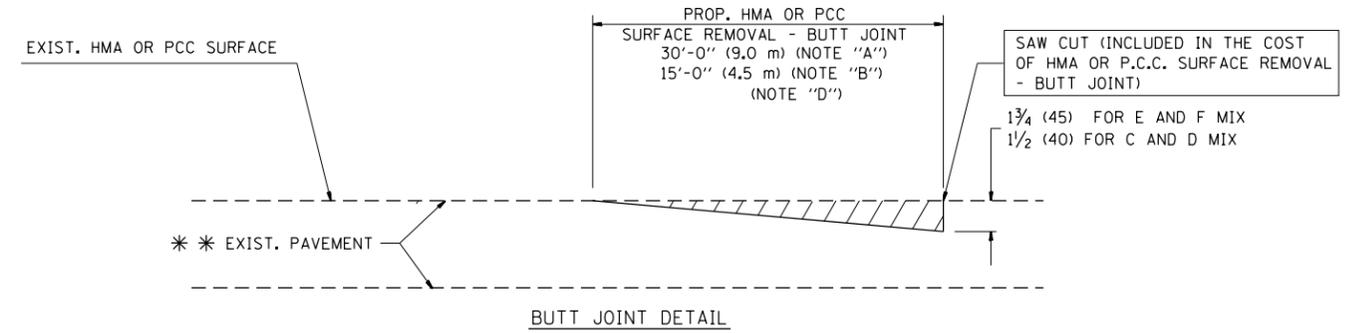


**OPTION 1**

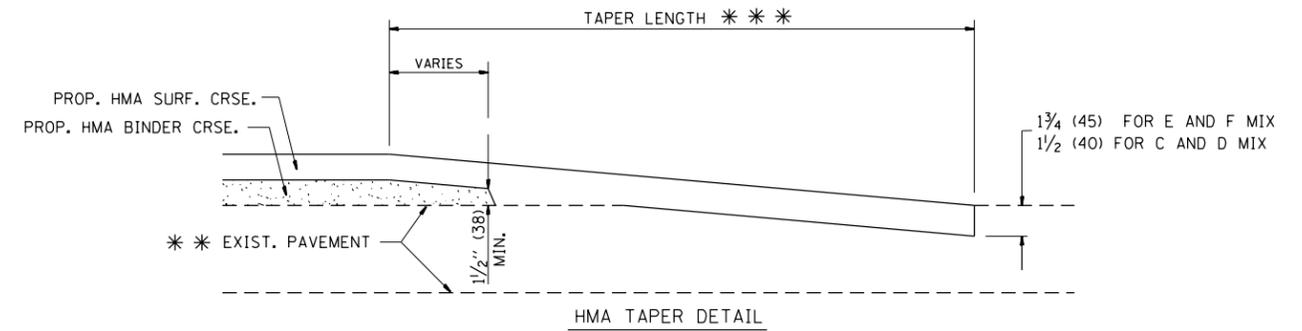


**OPTION 2**

**TYPICAL TEMPORARY RAMP**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

\* \* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

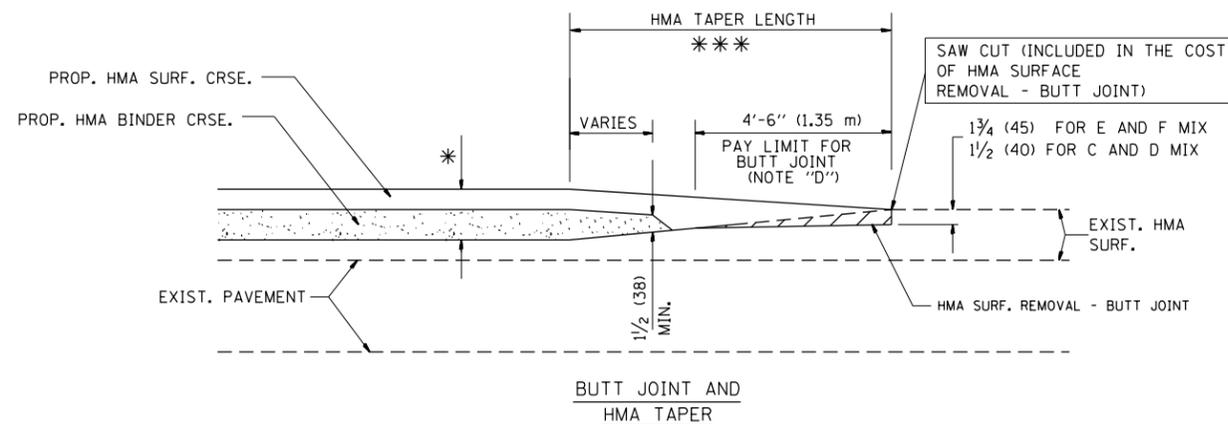
**NOTES**

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
  - B: MINOR SIDE ROADS.
  - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
  - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
  - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
  - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
  - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \* \* \* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

**BASIS OF PAYMENT:**

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

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



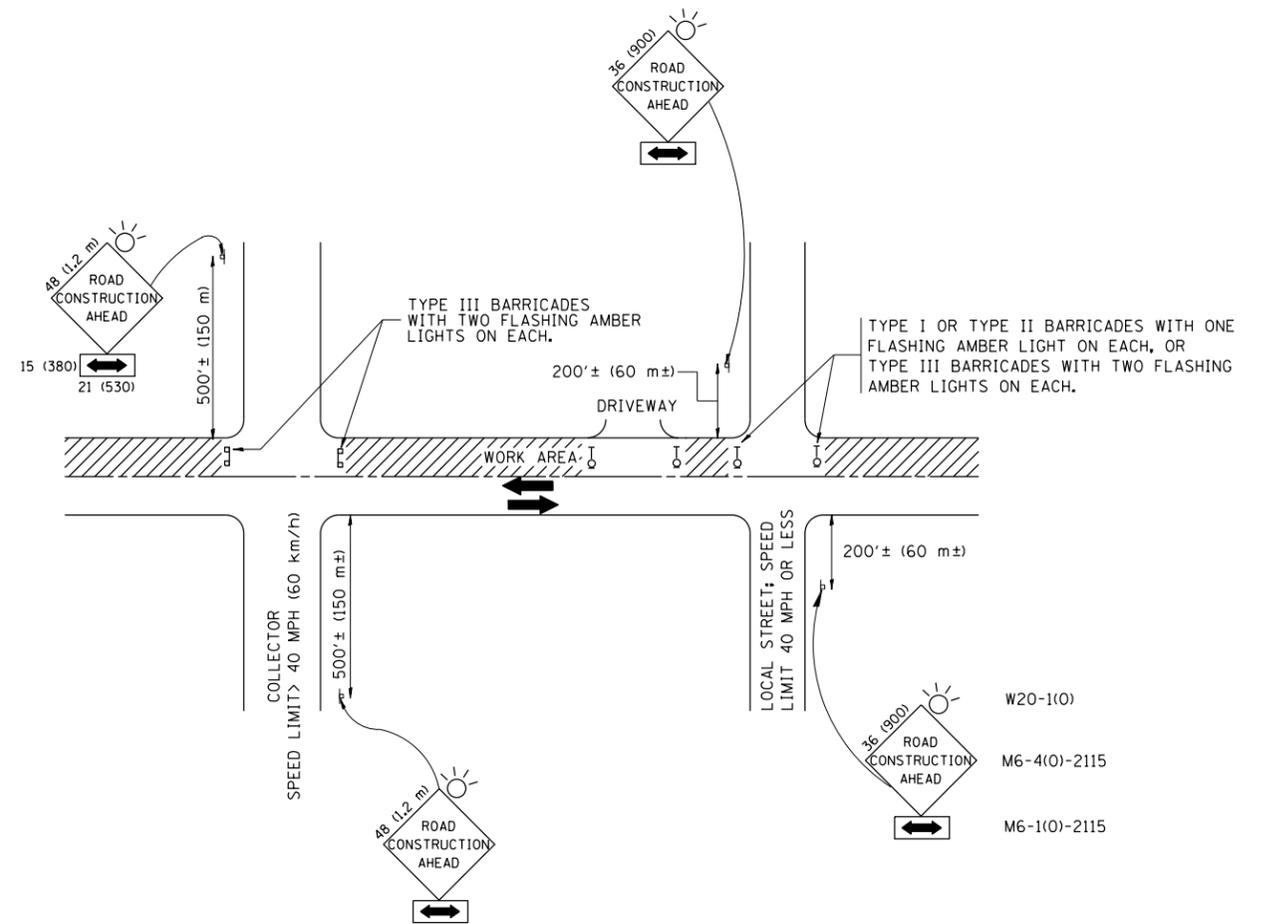
**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**

FILE NAME =	USER NAME = STREATERJR	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
ci:\pw\work\p\idot\streater_jr\d0304670\DistStd.dgn		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 100.0002' / 1"	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 5/15/2015	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>BUTT JOINT AND HMA TAPER DETAILS</b>	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(3127-1N-1(14)	COOK	69	47
<b>BD400-05 BD32</b>		<b>CONTRACT NO. 60X85</b>		
FED. ROAD DIST. NO. 1 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.

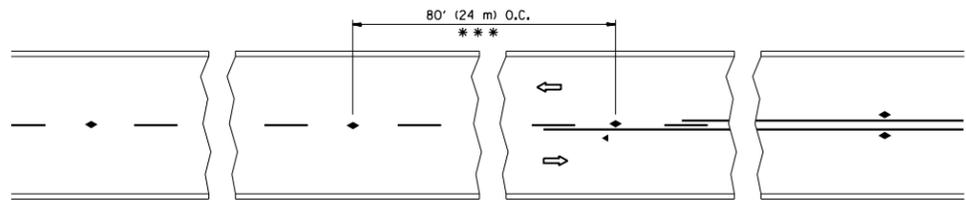
FILE NAME =	USER NAME = STREATERJR	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
c:\pwork\pwork\streaterjr\d0304670\DistStd.dgn		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 100.0002' / in.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 5/15/2015	DATE - 06-89	REVISED - T. RAMMACH 01-06-00

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

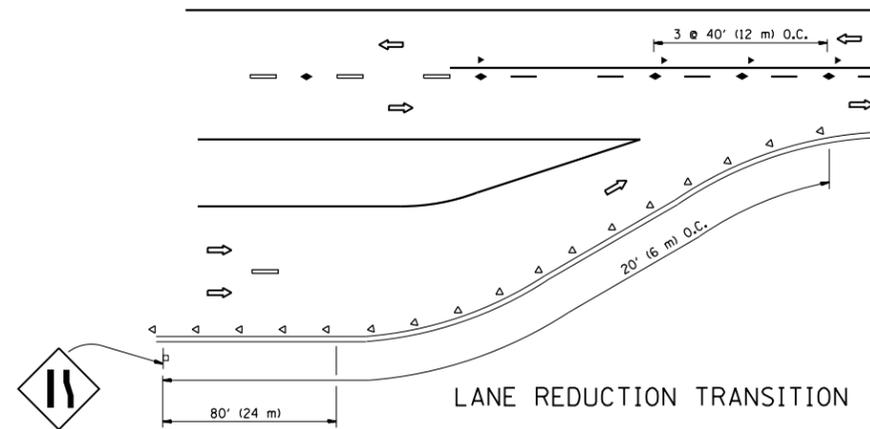
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(3127-1)N-1(14)	COOK	69	48
TC-10			CONTRACT NO. 60X85	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

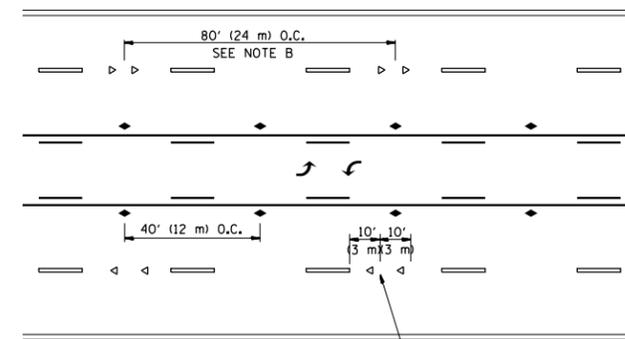


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

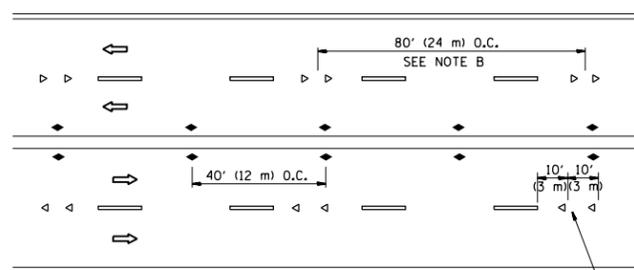
TWO-LANE/TWO-WAY



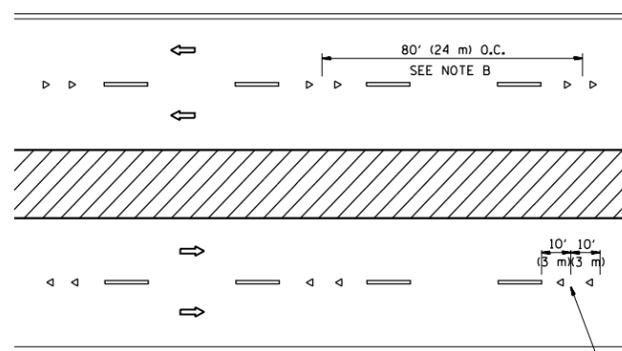
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

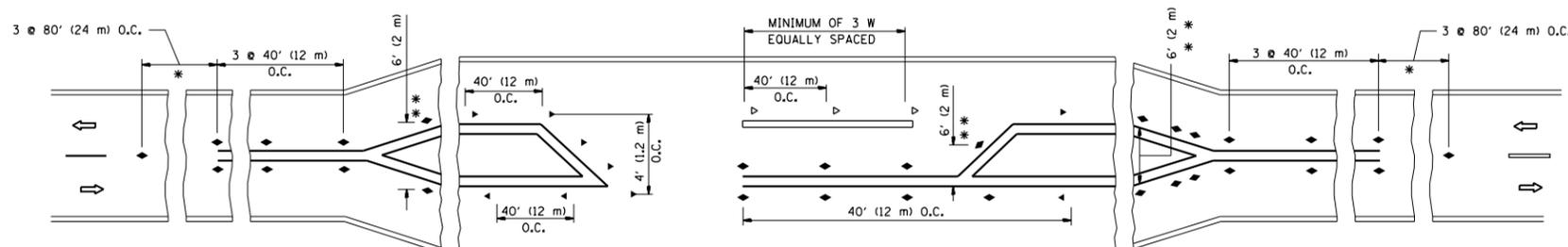
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

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 SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

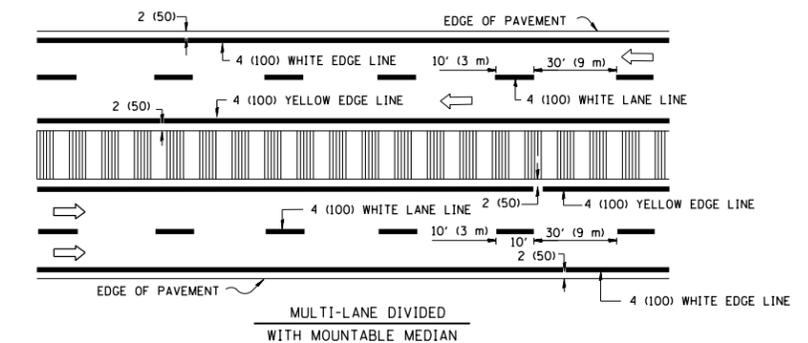
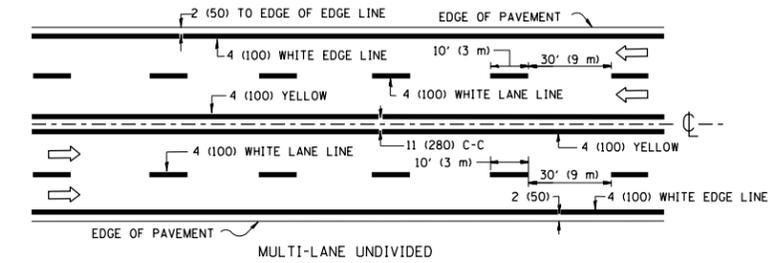
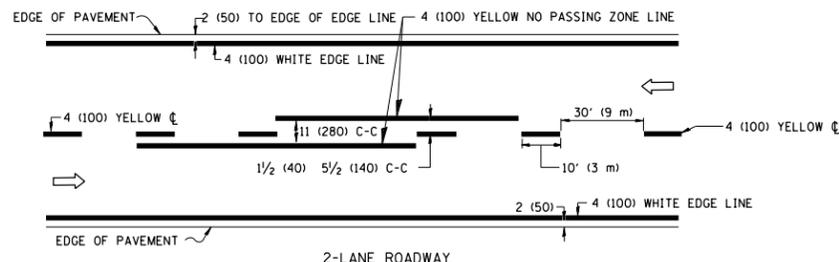
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = STREATERJR	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
ei:\pw\work\p\idot\streater_jr\d0304670\DistStd.dgn		DRAWN -	REVISED - T. RAMMACHER 03-12-99
	PLOT SCALE = 100.0002' / 1"	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 5/15/2015	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

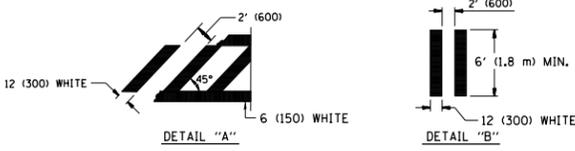
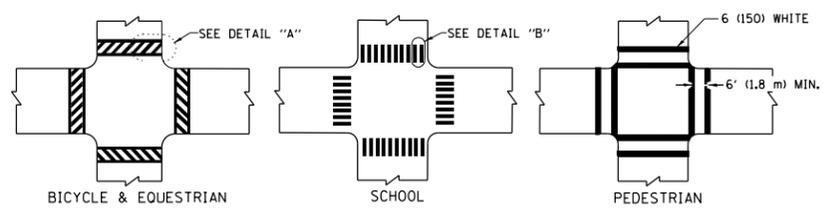
TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(3127-1N-1(14)	COOK	69	49
TC-11		CONTRACT NO. 60X85		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

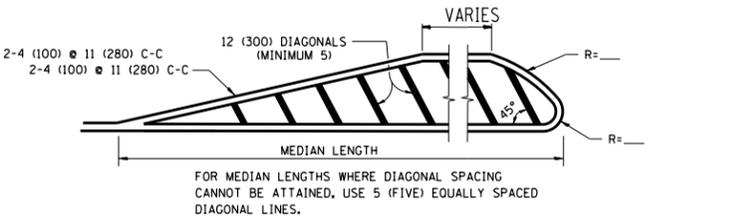
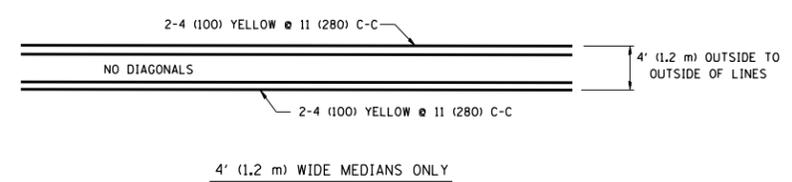


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

**TYPICAL LANE AND EDGE LINE MARKING**

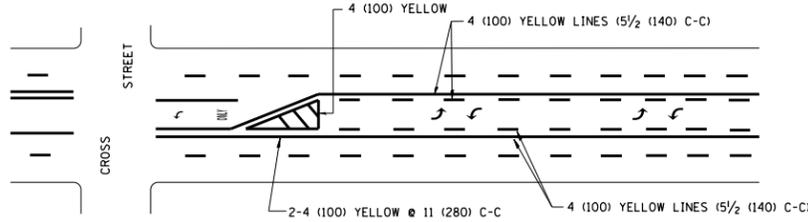


**TYPICAL CROSSWALK MARKING**

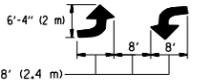


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

**MEDIANS OVER 4' (1.2 m) WIDE**

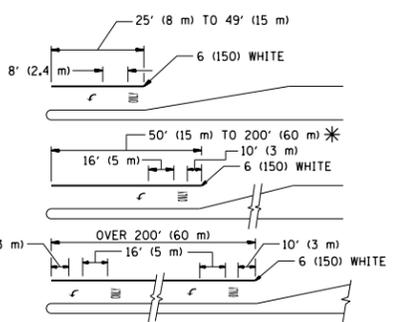


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



**MEDIAN WITH TWO-WAY LEFT TURN LANE**

**TYPICAL PAINTED MEDIAN MARKING**

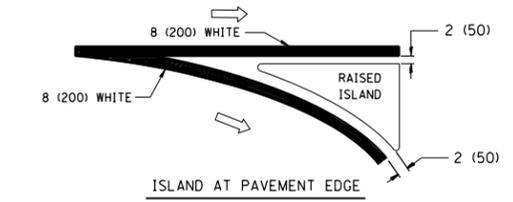
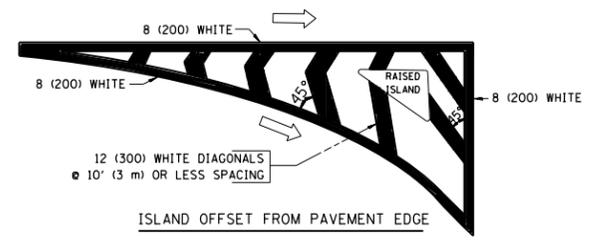


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

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

**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**



**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	4 (100)	SOLID	YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (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.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> ) EACH
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

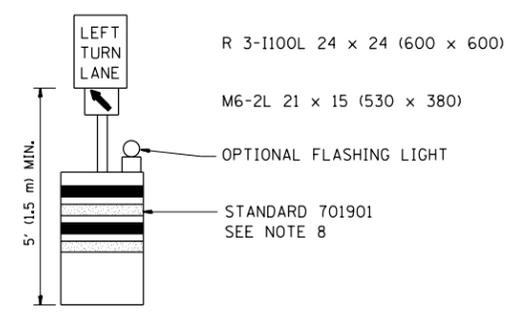
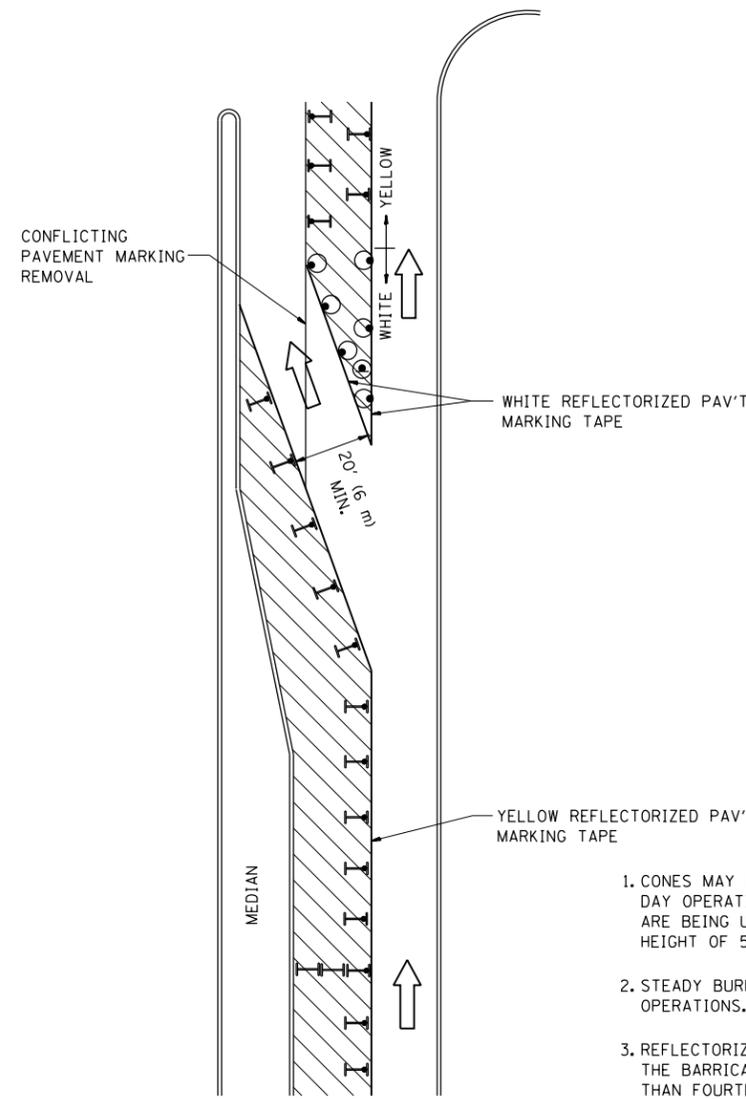
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = STREATERJR	DESIGNED - EVERS	REVISED -T, RAMMACHER 10-27-94
ei:\pw_work\p\dot\streater_jr\d0304670\DetStd.dgn		DRAWN -	REVISED -C, JUCIUS 09-09-09
	PLOT SCALE = 100.0002' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/15/2015	DATE - 03-19-90	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(3127-1N)-1(14)	COOK	69	50
TC-13		CONTRACT NO. 60X85		
FED. ROAD DIST. NO. 1 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 OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 PREQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

**LEGEND**

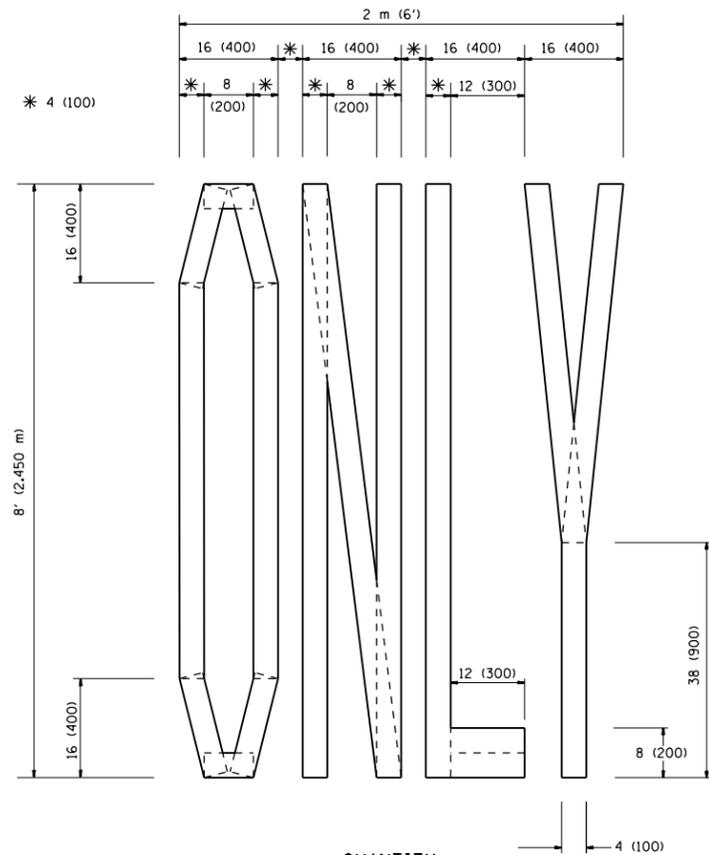
-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

FILE NAME =	USER NAME = STREATERJR	REVISED -T, RAMMACHER 09-08-94	REVISED - R, BORO 09-14-09
ei:\pw\work\p1dot\streater_jr\d0304670\DistStd.dgn		REVISED - A. HOUSEH 11-07-95	REVISED -
	PLOT SCALE = 100.0002' / in.	REVISED - A. HOUSEH 10-12-96	REVISED -
	PLOT DATE = 5/15/2015	REVISED -T, RAMMACHER 01-06-00	REVISED -

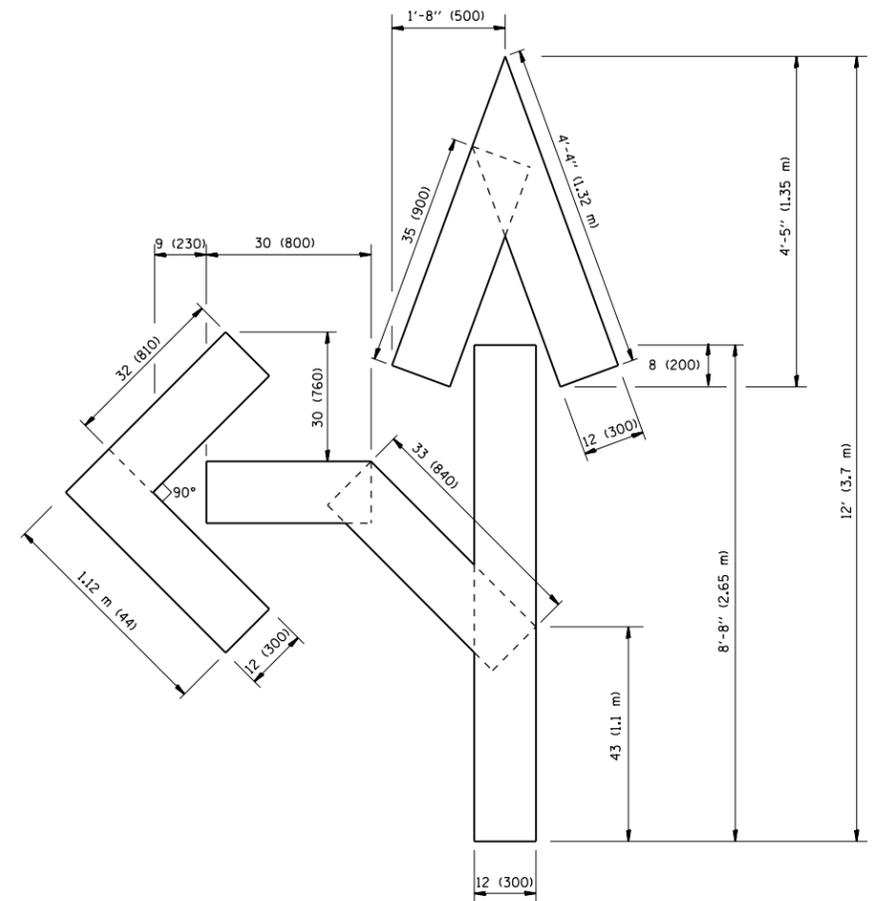
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

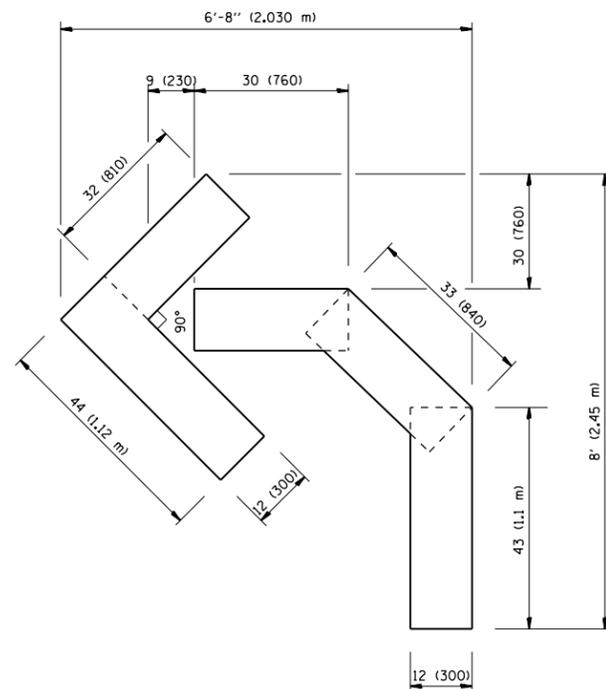
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(3127-1N-1(14)	COOK	69	51
TC-14			CONTRACT NO. 60X85	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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.

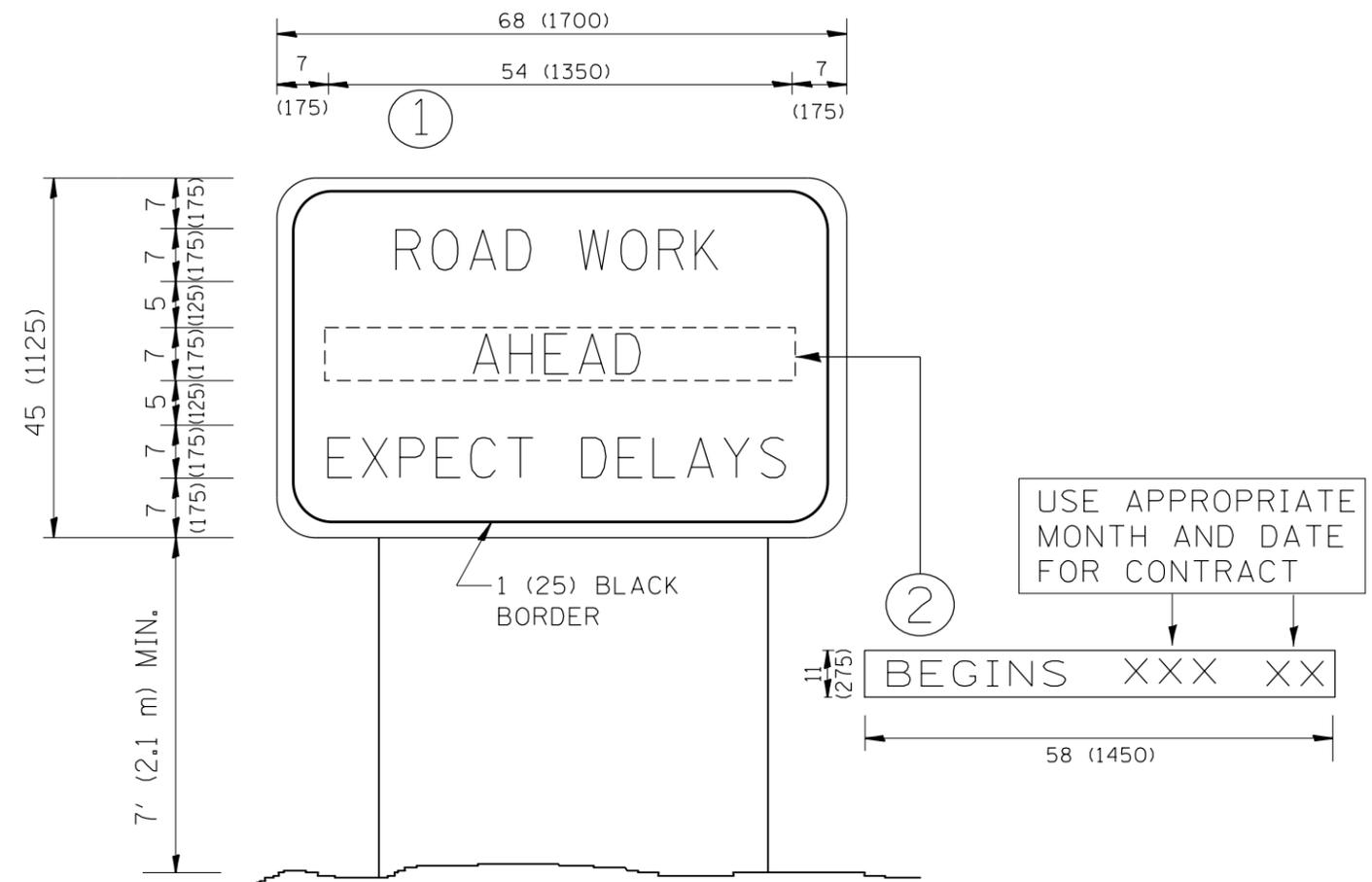
FILE NAME =	USER NAME = STREATERJR	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
ei:\pw\work\p1dot\streater_jr\d0304670\DistStd.dgn		DRAWN -	REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 100.0002' / in.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 5/15/2015	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS  
 FOR TRAFFIC STAGING

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(3127-1)N-1(14)	COOK	69	52
TC-16		CONTRACT NO. 60X85		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**NOTES:**

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

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

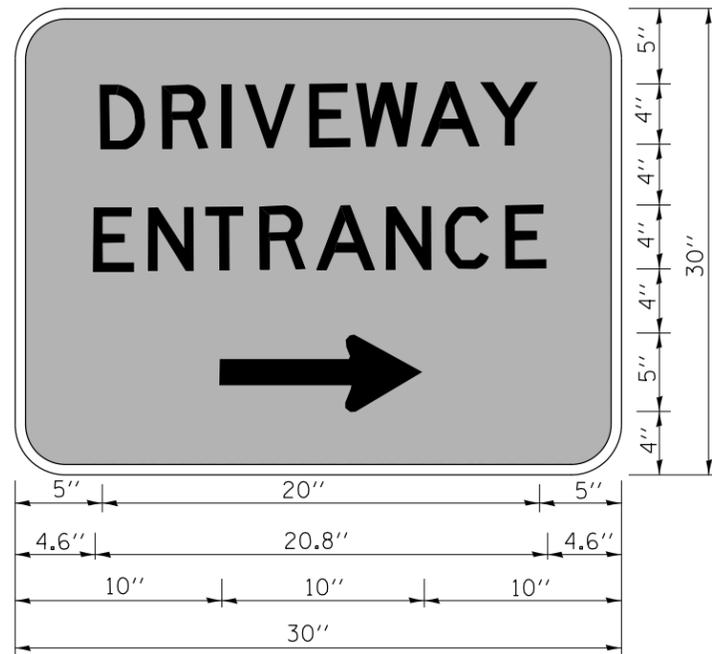
FILE NAME =	USER NAME = STREATERJR	DESIGNED -	REVISED - R. MIRS 09-15-97
ci:\pw\work\p\idot\streater_jr\d0304670\DistStd.dgn		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 100.0002' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 5/15/2015	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(3127-1)N-1(14)	COOK	69	53
TC-22			CONTRACT NO. 60X85	
FED. ROAD DIST. NO. 1   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 =	USER NAME = STREATERJR	DESIGNED -	REVISED - C. JUCIUS 02-15-07
ci:\pw\work\p\dot\streater_jr\d0304670\DistStd.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -
	PLOT SCALE = 100.0002' / in.		
	PLOT DATE = 5/15/2015		

**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.
348	(3127-1N-1(14)	COOK	69	54
<b>TC-26</b>			<b>CONTRACT NO. 60X85</b>	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



# TRAFFIC SIGNAL LEGEND

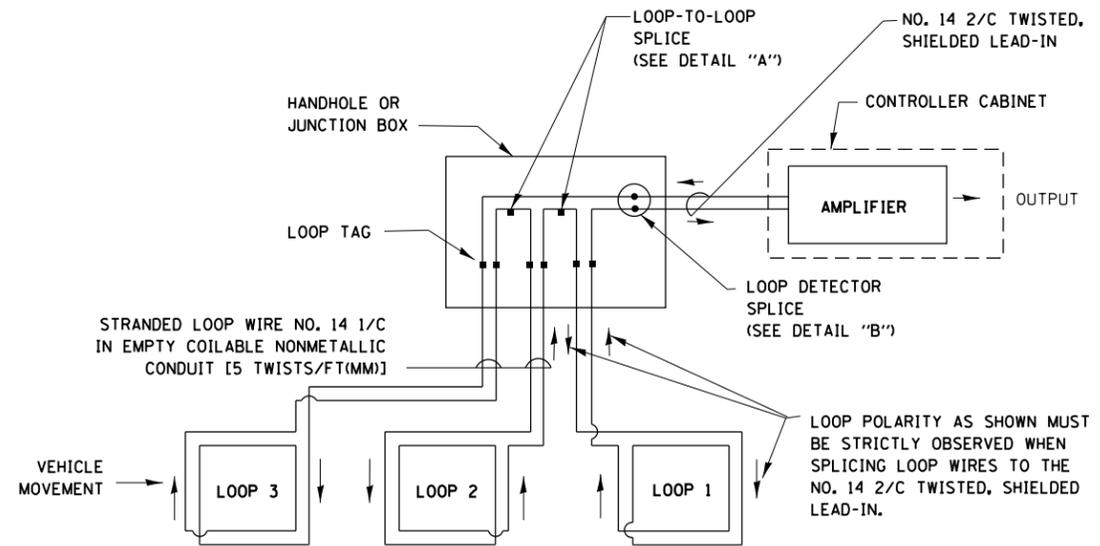
ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTABLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM		S	S	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I	IP	ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM	R			STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM	RL			SIGNAL POST AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM	A			INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				QUEUE DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				PREFORMED QUEUE DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				"RB" INDICATES REFLECTIVE BACKPLATE				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL							
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED							
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID							
ILLUMINATED SIGN "NO LEFT TURN"				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER							
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO INTERCONNECT							
DETECTOR LOOP, TYPE I				RADIO REPEATER							
PREFORMED DETECTOR LOOP				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED							
MICROWAVE VEHICLE SENSOR				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)							
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

## RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET		
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

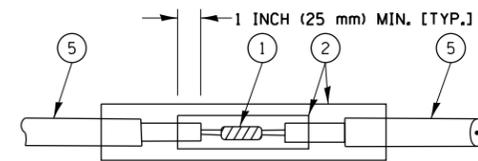
**LOOP DETECTOR NOTES**

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

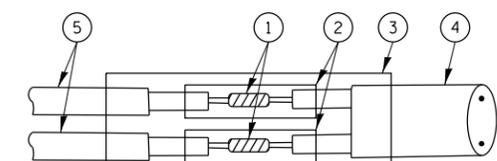


**DETECTOR LOOP WIRING SCHEMATIC**

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



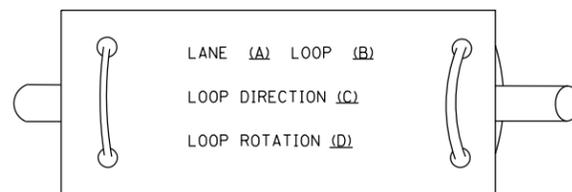
**DETAIL "A"  
LOOP-TO-LOOP SPLICE**



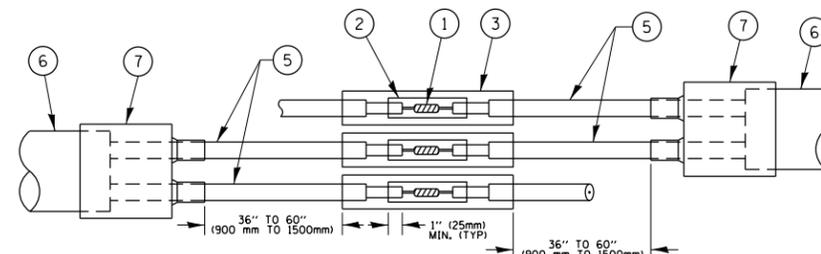
**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**TYPE I LOOP**

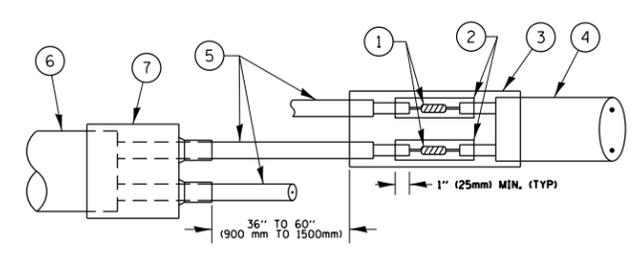
**LOOP LEAD-IN CABLE TAG**



- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



**DETAIL "A"  
LOOP-TO-LOOP SPLICE**



**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**LOOP DETECTOR SPLICE**

- ① WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH, THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- ② WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- ③ WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- ④ NO. 14 2/C TWISTED, SHIELDED CABLE.
- ⑤ LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- ⑥ PRE-FORMED LOOP
- ⑦ XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = STREATERJR	DESIGNED - DAD	REVISED - DAG 1-1-14
ei:\pw\work\p1dot\streater_jr\d0304670\DistStd.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED - DAD	REVISED -
	PLOT DATE = 5/15/2015	DATE - 10-28-09	REVISED -

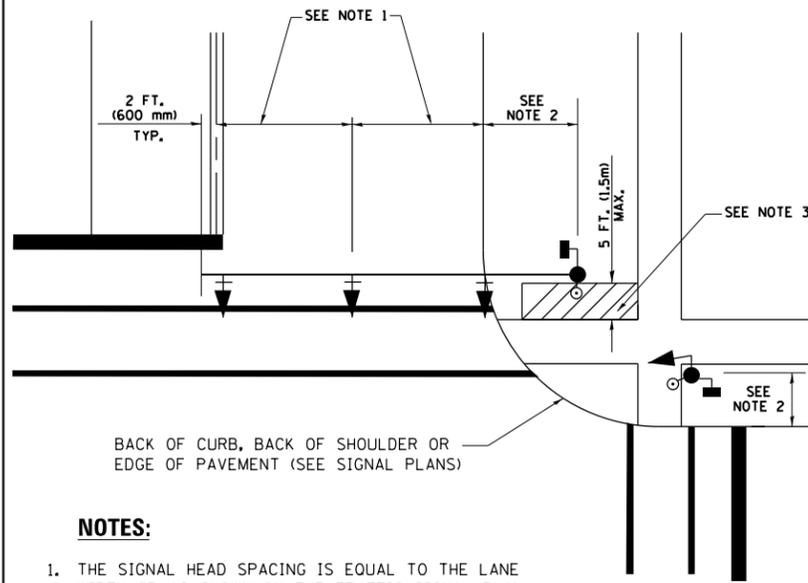
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 2 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(3127-1)N-1(14)	COOK	69	57
	TS-05	CONTRACT NO.	60X85	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

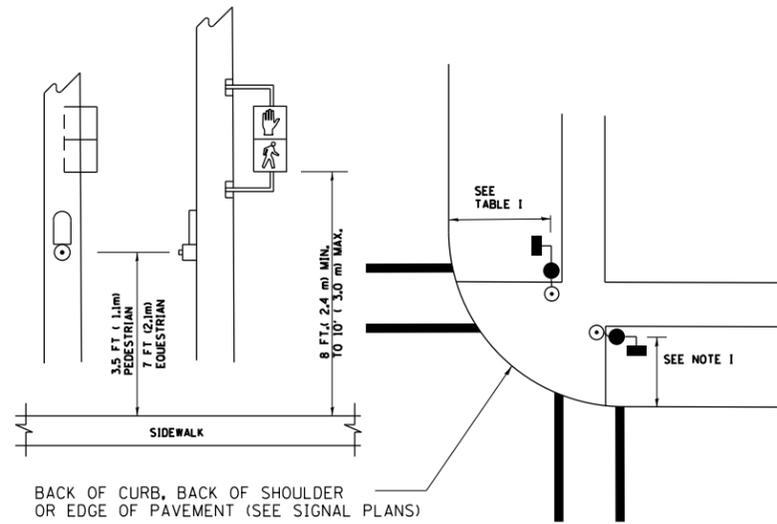
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST  
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR  
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN  
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



**NOTES:**

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

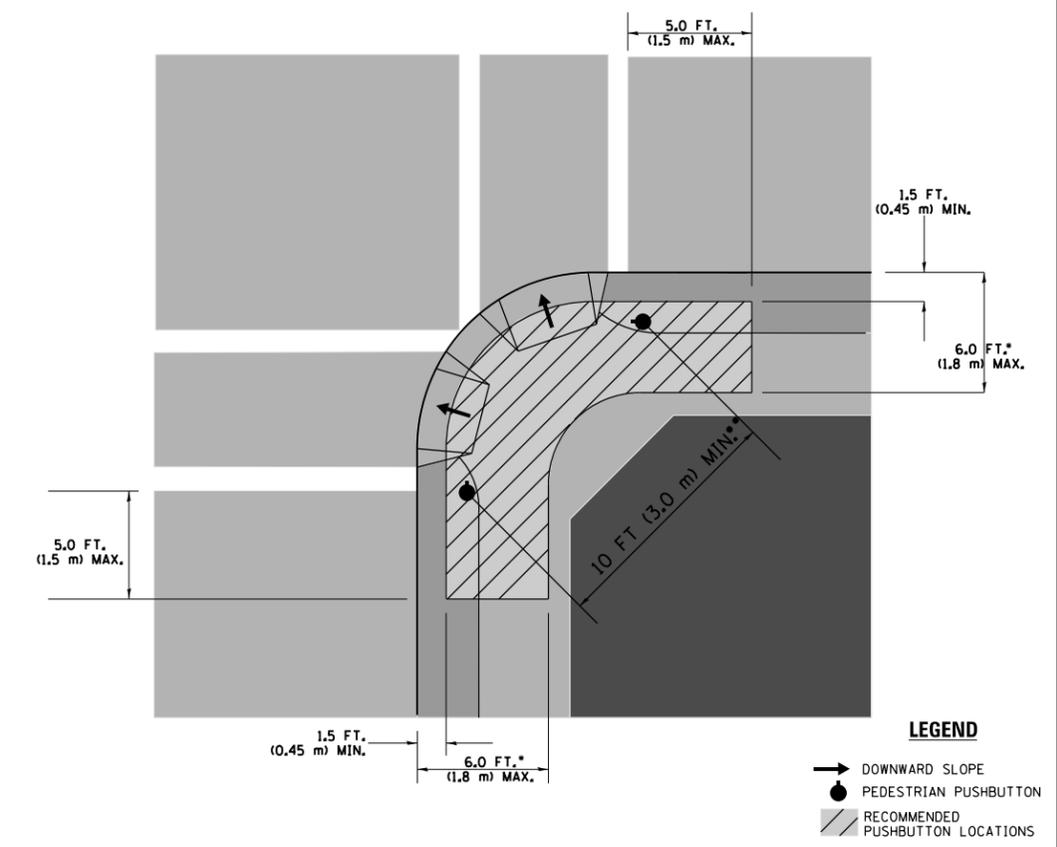
**PEDESTRIAN SIGNAL POST  
AND  
PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

**RECOMMENDED PUSHBUTTON LOCATIONS**



**LEGEND**

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT ( 1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

**NOTES:**

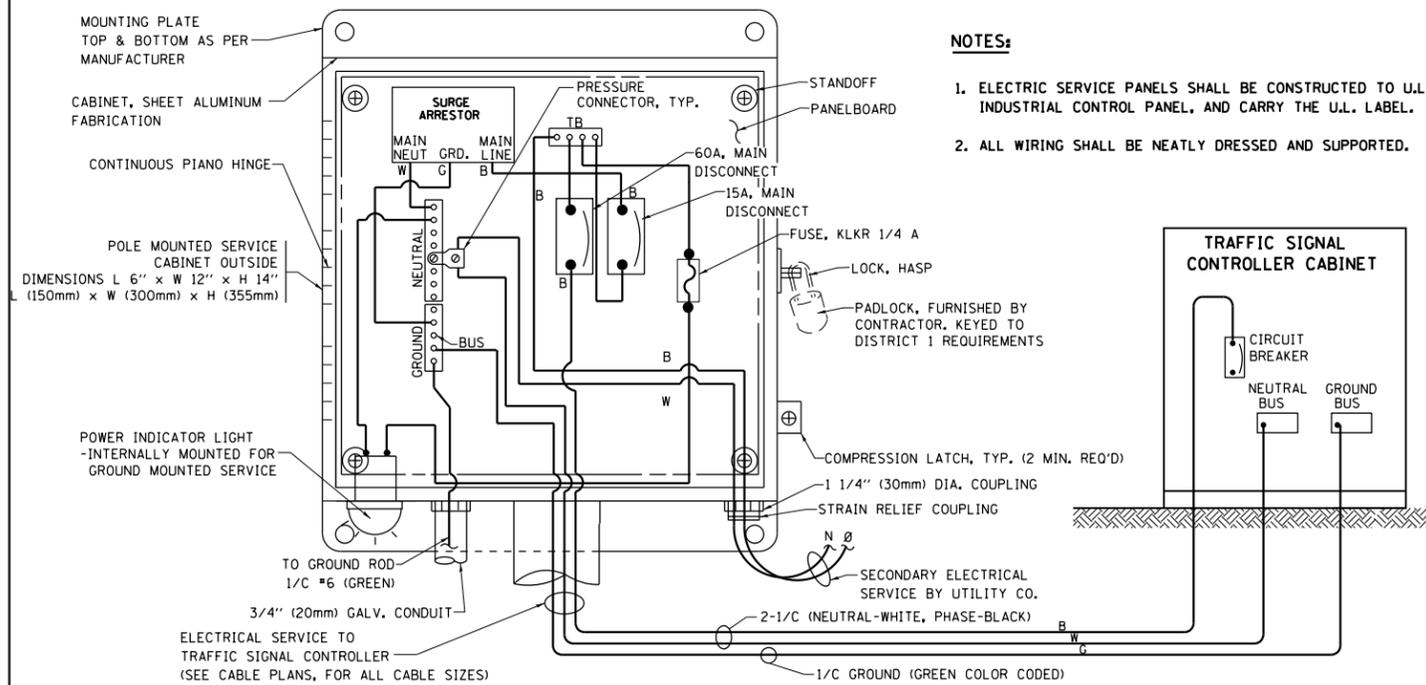
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

**TRAFFIC SIGNAL EQUIPMENT OFFSET**

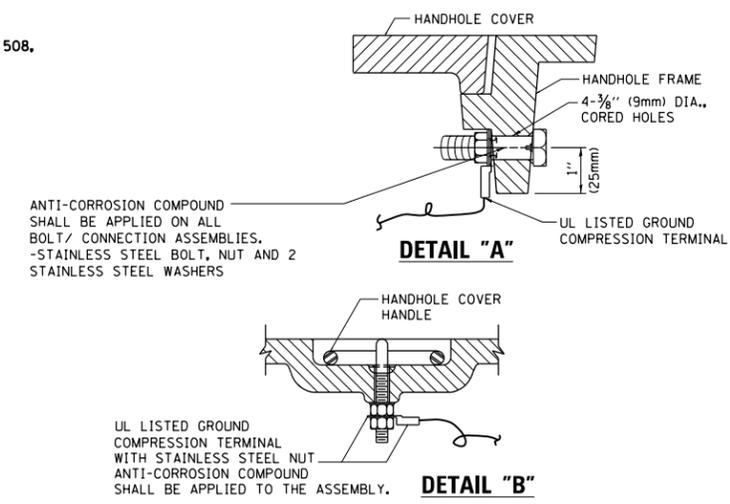
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

**NOTES:**

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

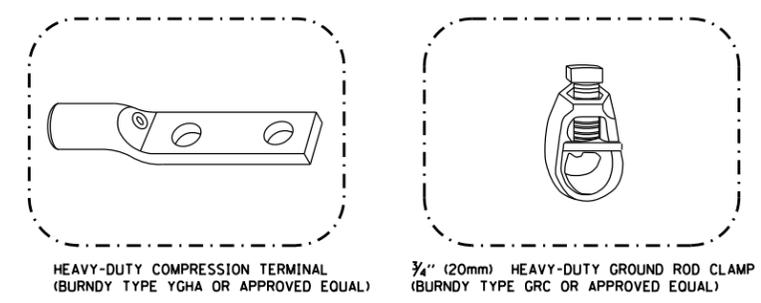
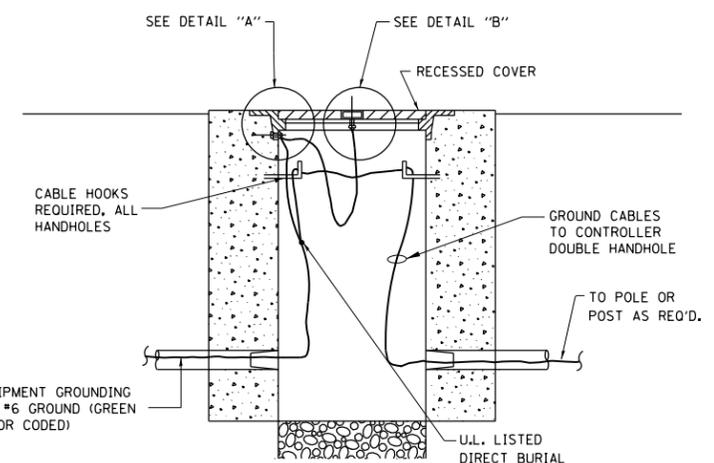


**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)  
SERVICE INSTALLATION POLE MOUNT (SHOWN)  
(NOT TO SCALE)**

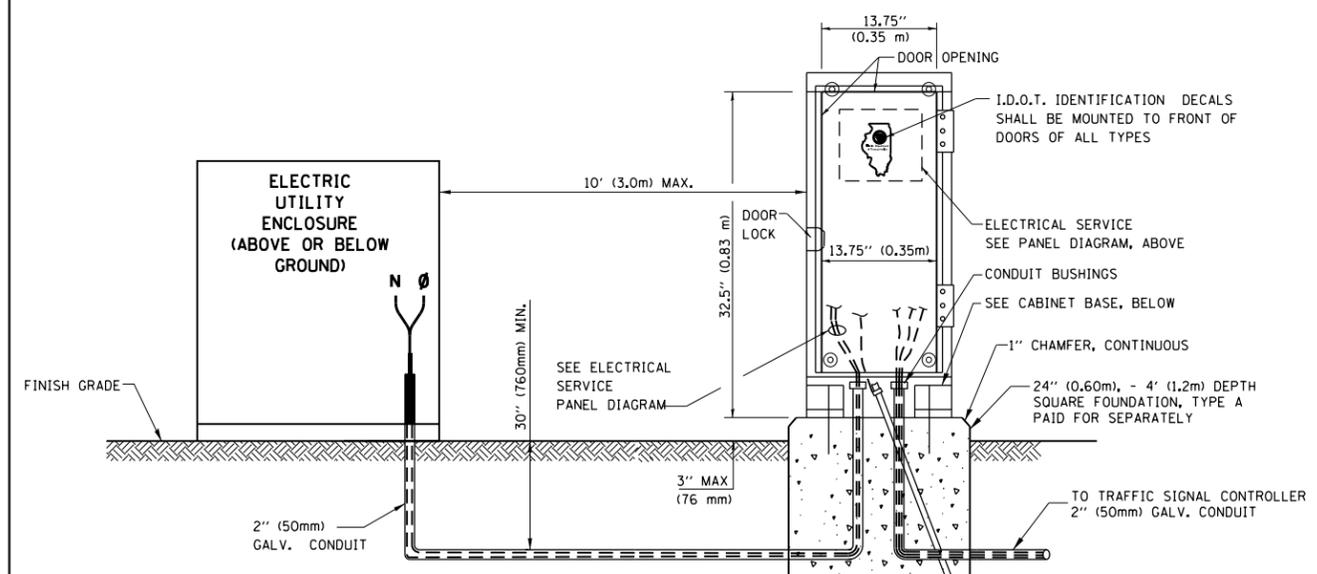
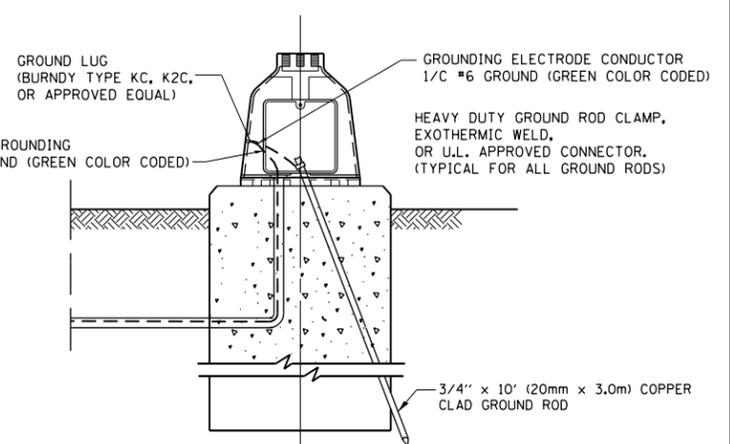
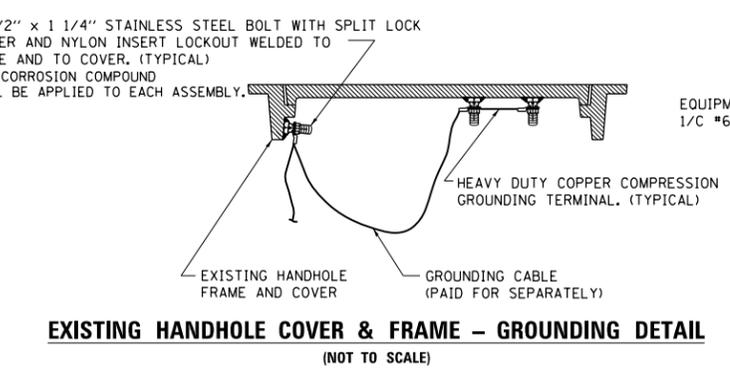


**NOTES:  
GROUNDING SYSTEM**

- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN ENCLOSED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

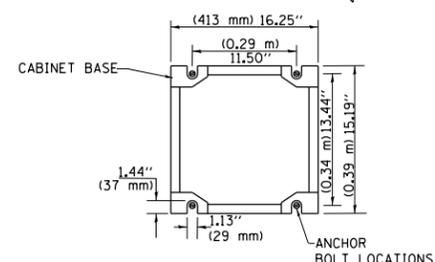


- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
  - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



**SERVICE INSTALLATION GROUND MOUNT  
(NOT TO SCALE)**

**CABINET – BASE BOLT PATTERN  
(NOT TO SCALE)**

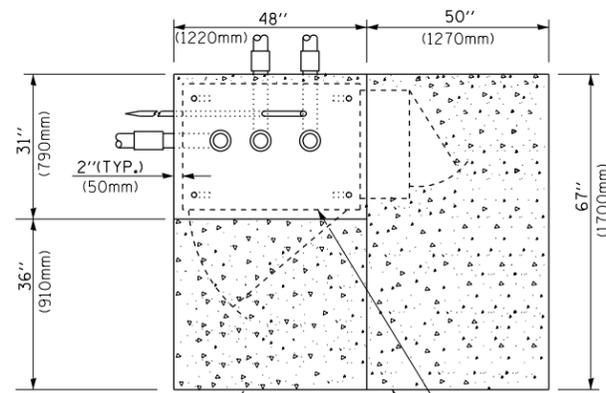


FILE NAME =	USER NAME = STREATERJR	DESIGNED - DAD	REVISED - DAG 1-1-14
ei:\pw\work\p1dot\streater jr\d0304670\DistStd.dgn		DRAWN - BCK	REVISED -
		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

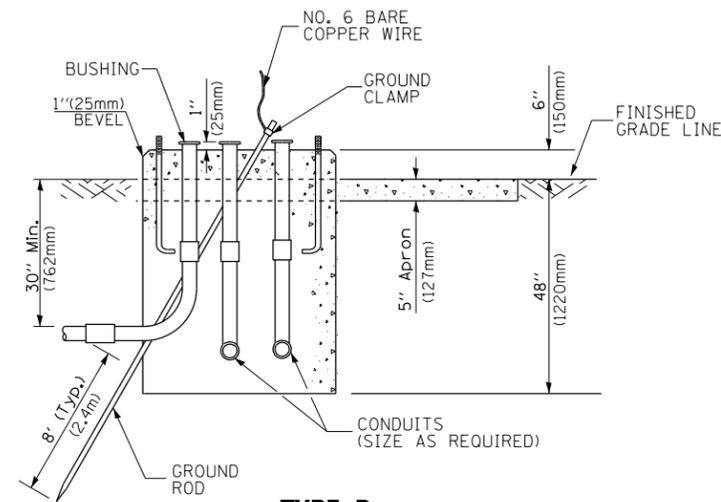
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	
SCALE: NONE	SHEET NO. 4 OF 7 SHEETS STA. TO STA.

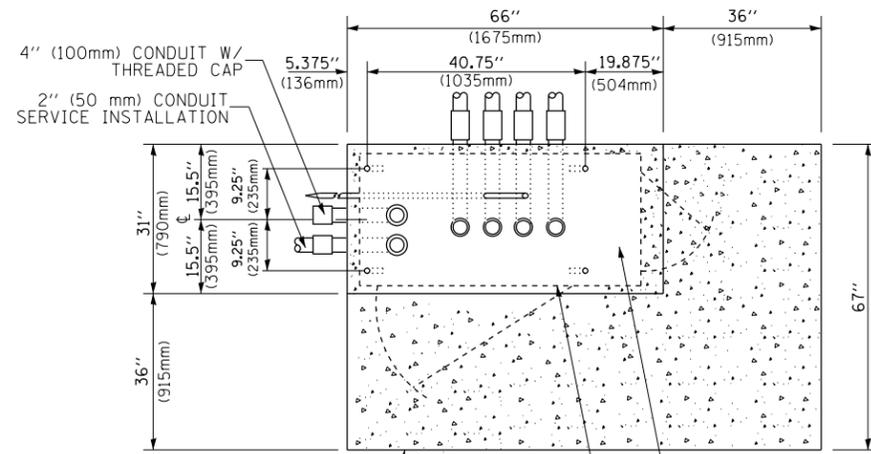
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(3127-1)N-1(14)	COOK	69	59
TS-05		CONTRACT NO.	60X85	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**TOP VIEW**



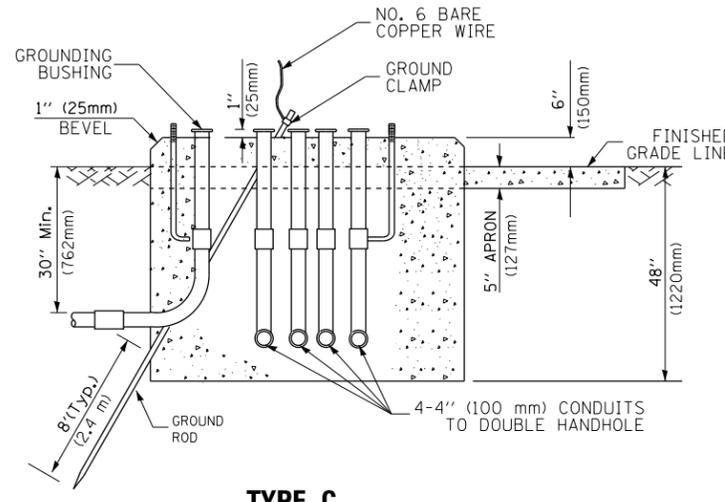
**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**



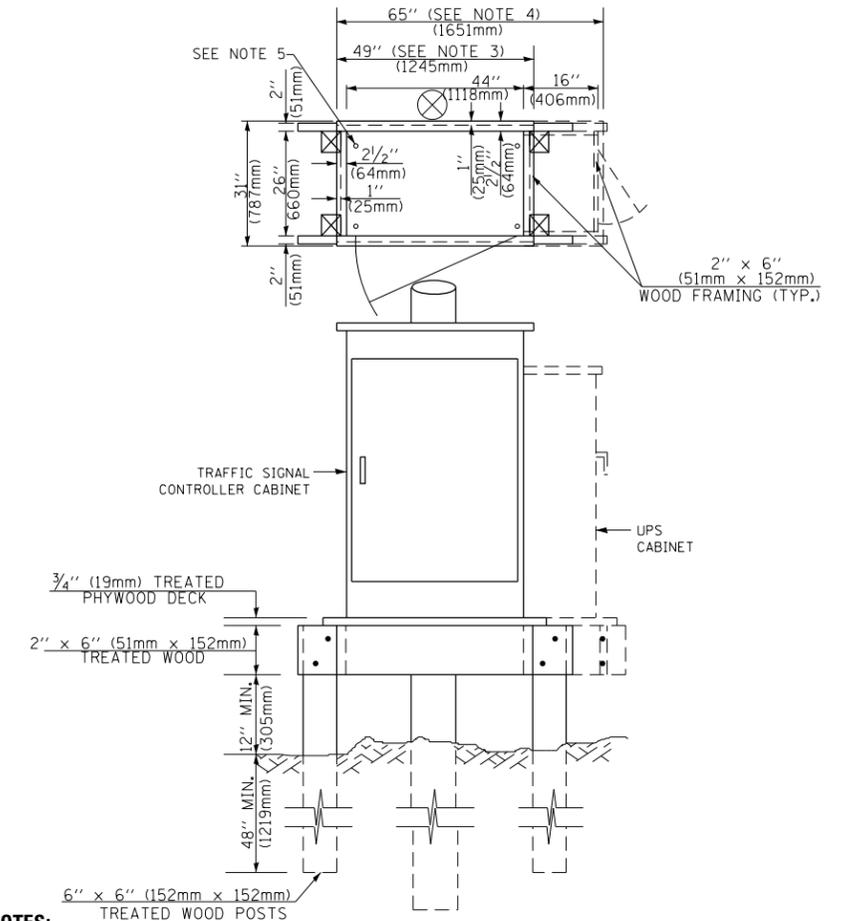
**TOP VIEW**

**NOTE:**

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C  
FOR GROUND MOUNTED  
SUPER P (TYPE IV) AND SUPER R (TYPE V)  
CONTROLLER CABINETS**



**NOTES:**

- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

**CABLE SLACK**

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

**VERTICAL CABLE LENGTH**

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

**DEPTH OF FOUNDATION**

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m) and up to 85' (25.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

**NOTES:**

- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average unconfined compressive strength (qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
- Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
- For mast arm assemblies with dual arms refer to state standard 878001.

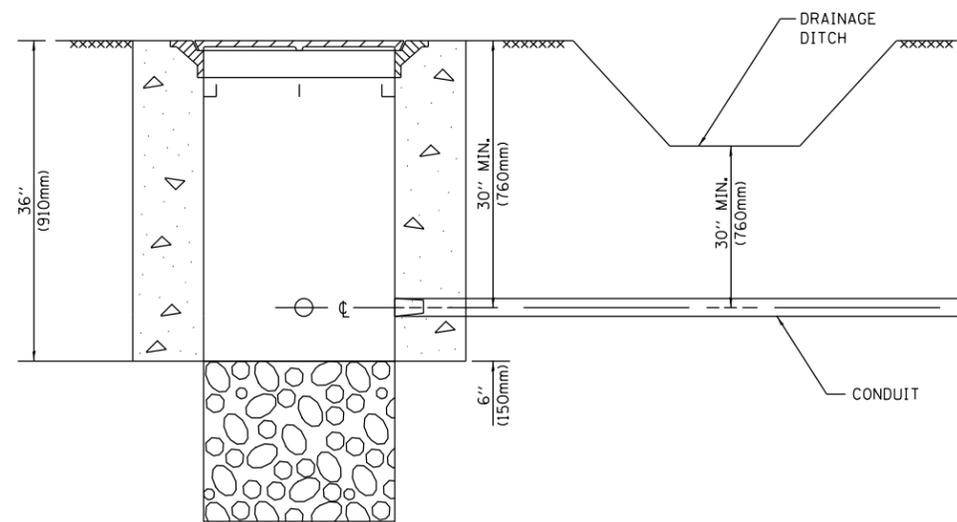
**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**

FILE NAME =	USER NAME = STREATERJR	DESIGNED - DAG	REVISED - DAG 1-1-14
et:\pw\work\p1dot\streater jr\d0304670\DetStd.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 100.0000' / 1in.	CHECKED - DAD	REVISED -
	PLOT DATE = 5/15/2015	DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DISTRICT ONE</b>			
<b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			
SCALE: NONE	SHEET NO. 5 OF 7 SHEETS	STA. TO STA.	

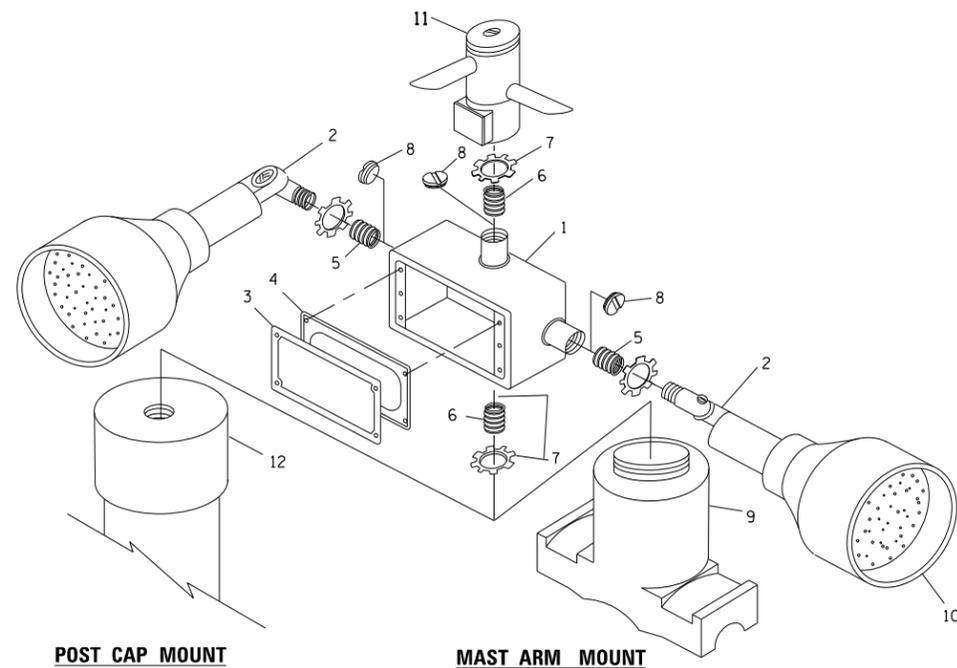
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(3127-1)N-1(14)	COOK	69	60
TS-05			CONTRACT NO. 60X85	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



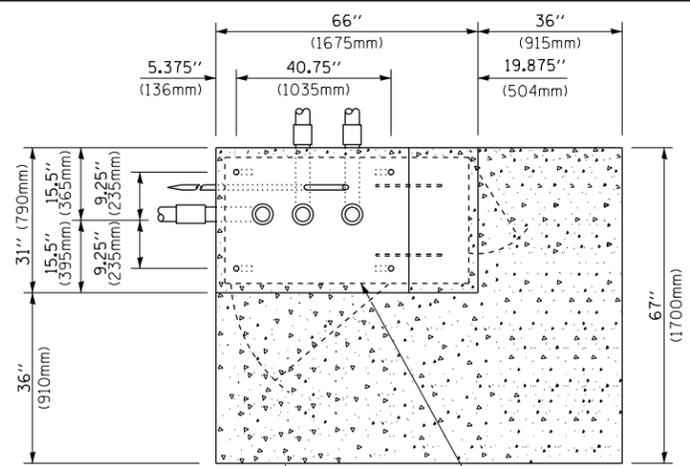
**NOTES:**

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

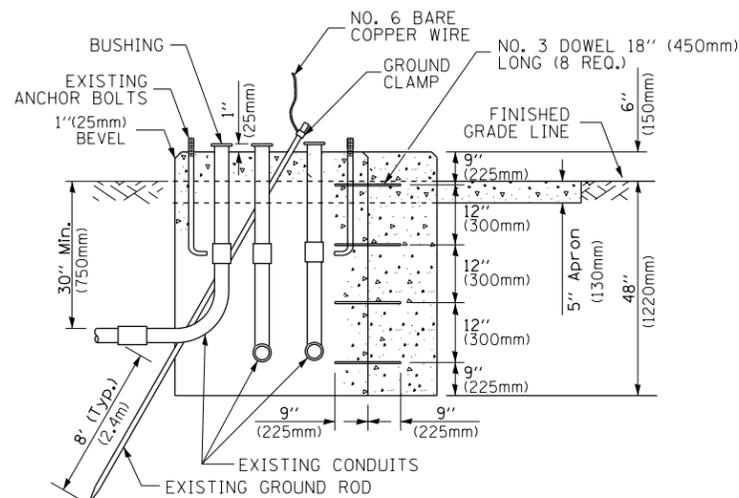
**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)



**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**



**TOP VIEW**  
(NOT TO SCALE)

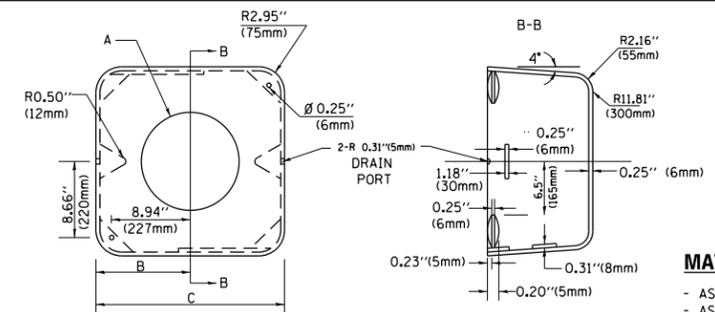


**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

**NOTES:**

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT  
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



**MATERIAL:**  
- ASTM A36 STEEL  
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

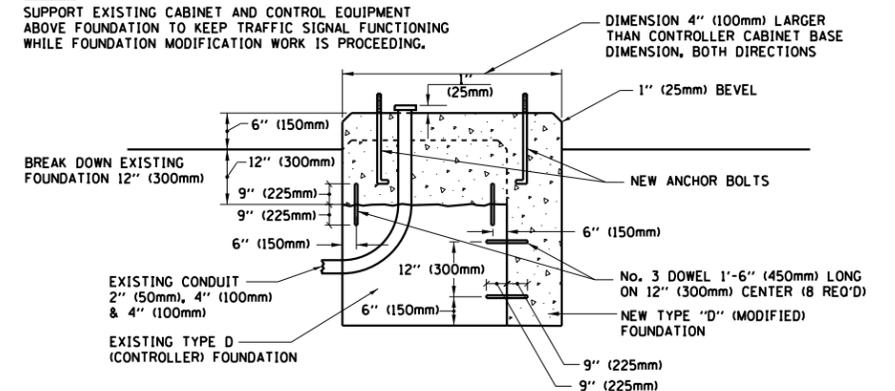
**SHROUD**

**NOTES:**

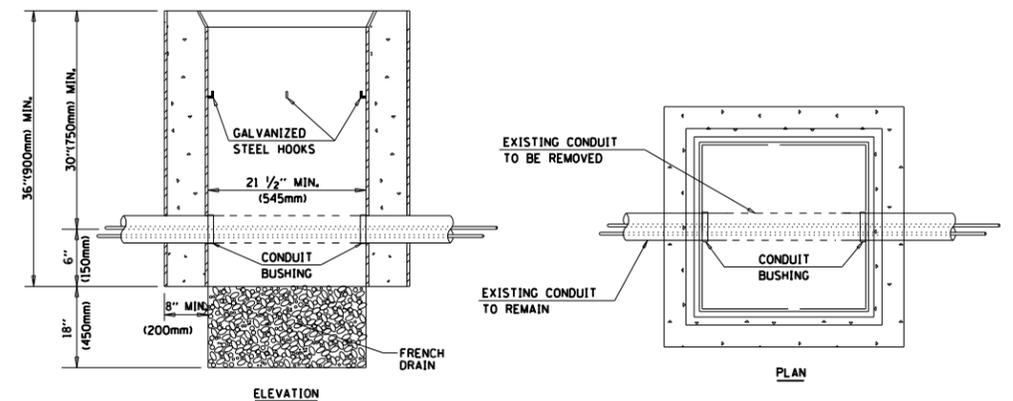
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**NOTE:**

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



**MODIFY EXISTING TYPE "D" FOUNDATION**



**NOTES:**

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

**HANDHOLE TO INTERCEPT EXISTING CONDUIT**

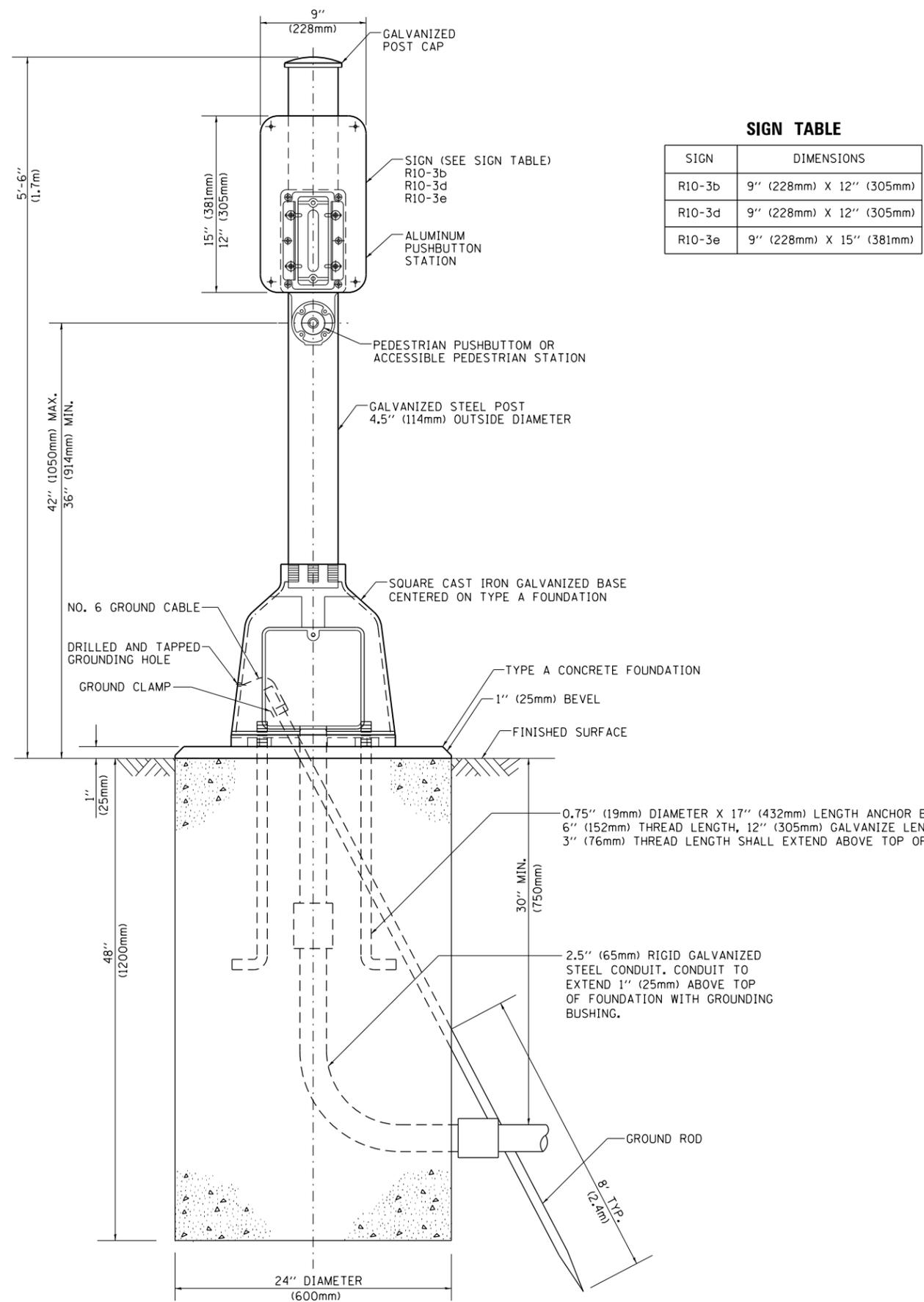
FILE NAME =	USER NAME = STREATERJR	DESIGNED - DAD	REVISED - DAG 1-1-14
ei:\pwork\pwork\dtd\streater_jr\d0304670\DistStd.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 100.0000' / 1in.	CHECKED - DAD	REVISED -
	PLOT DATE = 5/15/2015	DATE - 10-28-09	REVISED -

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

**DISTRICT ONE**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

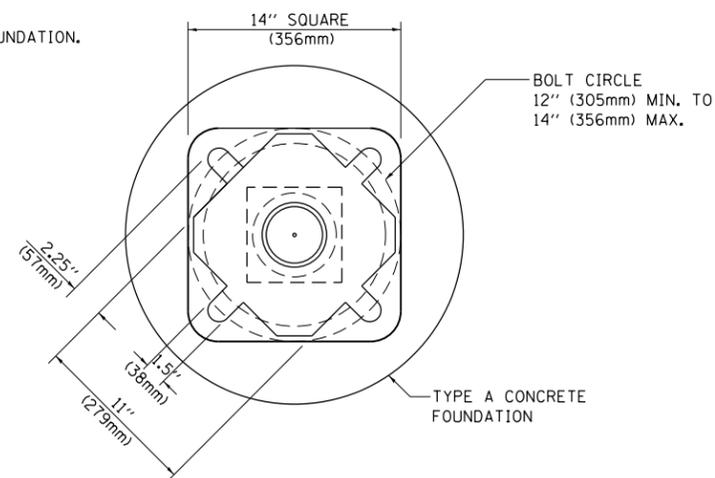
SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(3127-1)N-1(14)	COOK	69	61
	TS-05	CONTRACT NO.	60X85	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**SIGN TABLE**

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



**BOLT PATTERN**  
**PEDESTRIAN PUSH BUTTON POST, TYPE A**

FILE NAME =	USER NAME = STREATERJR	DESIGNED - DAG	REVISED - DAG 1-1-14
et:\pw\work\p\idot\streater_jr\d0304670\DistStd.dgn		DRAWN - GND	REVISED -
	PLOT SCALE = 100.0000' / 1" =	CHECKED - DAD	REVISED -
	PLOT DATE = 5/15/2015	DATE - 10/1/2012	REVISED -

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

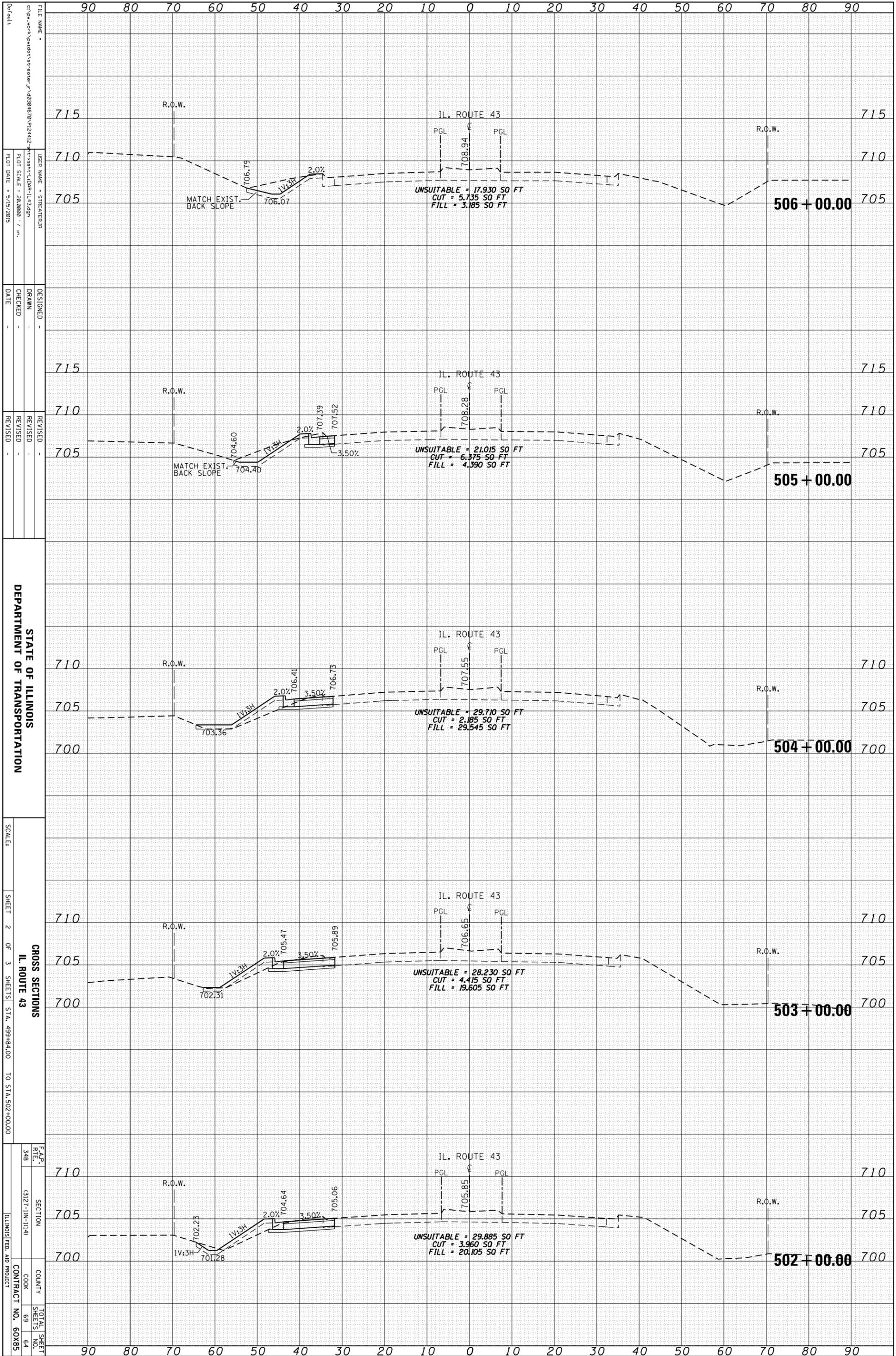
**DISTRICT ONE**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**  
SCALE: NONE SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	(3127-1)N-1(14)	COOK	69	62
TS-05		CONTRACT NO. 60X85		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	CHECKED _____		



STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

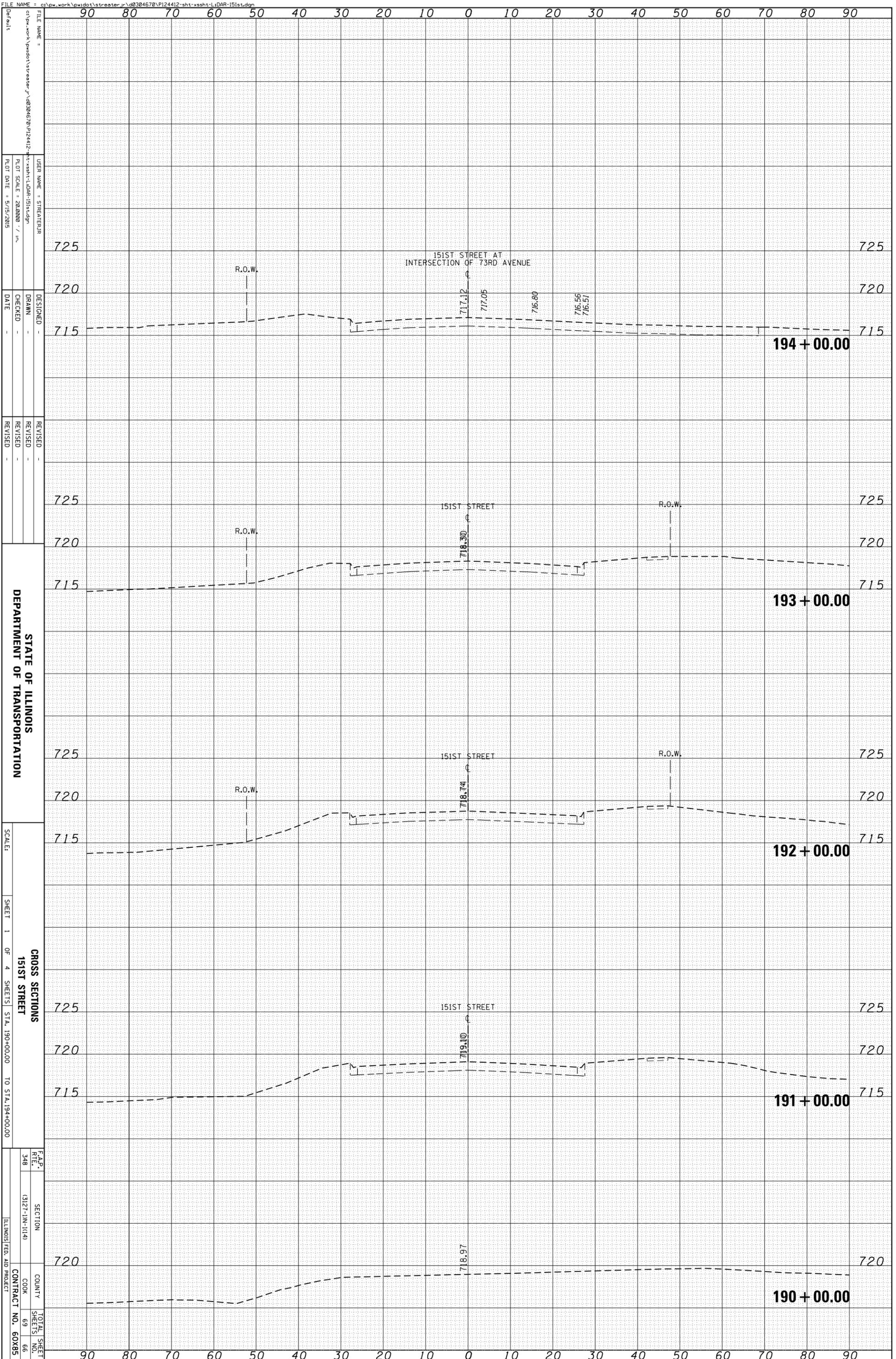
SCALE: SHEET 2 OF 3 SHEETS STA. 499+84.00 TO STA. 502+00.00  
 CROSS SECTIONS  
 IL ROUTE 43

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS
348	(3127-IN-1114)	COOK	69
			64
		CONTRACT NO.	60X85



ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	CHECKED _____		



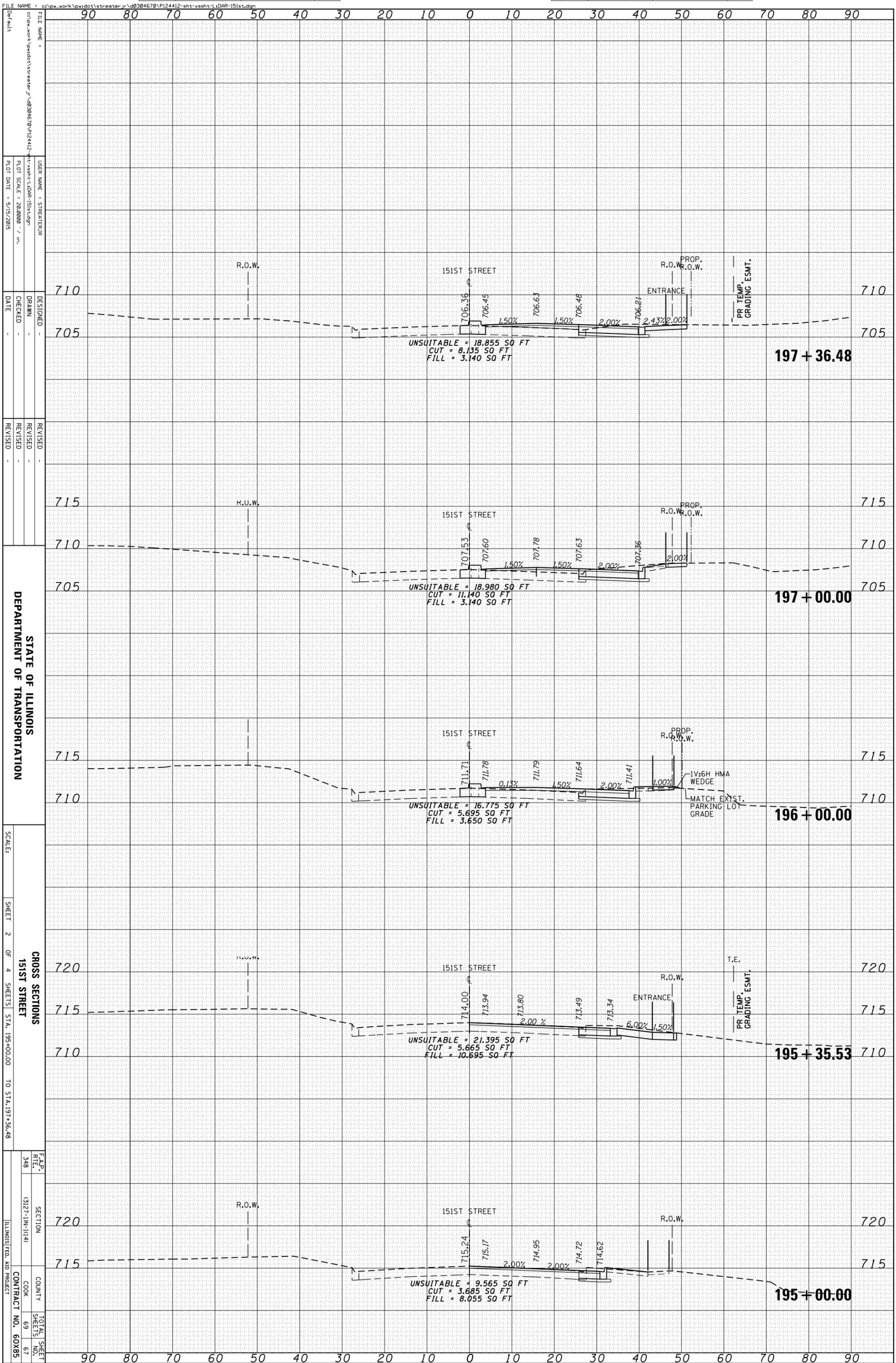
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
151ST STREET  
SHEET 1 OF 4 SHEETS STA. 190+00.00 TO STA. 194+00.00

F.A.P. R.T.E. NO.	SECTION	COUNTY	TOTAL SHEETS
348	(3127-JN-1114)	COOK	69
			66
		CONTRACT NO.	60X85
		ILLINOIS FED. AID PROJECT	

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



FILE NAME = c:\pwork\pwork\streater\10304670\PI24412-sht-xssht-1-DAR-151st.dgn  
 USER NAME = STREATER  
 PLOT SCALE = 28.0000 / in.  
 PLOT DATE = 5/15/2015

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISIONS  
 REVISION NO. DATE DESCRIPTION

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

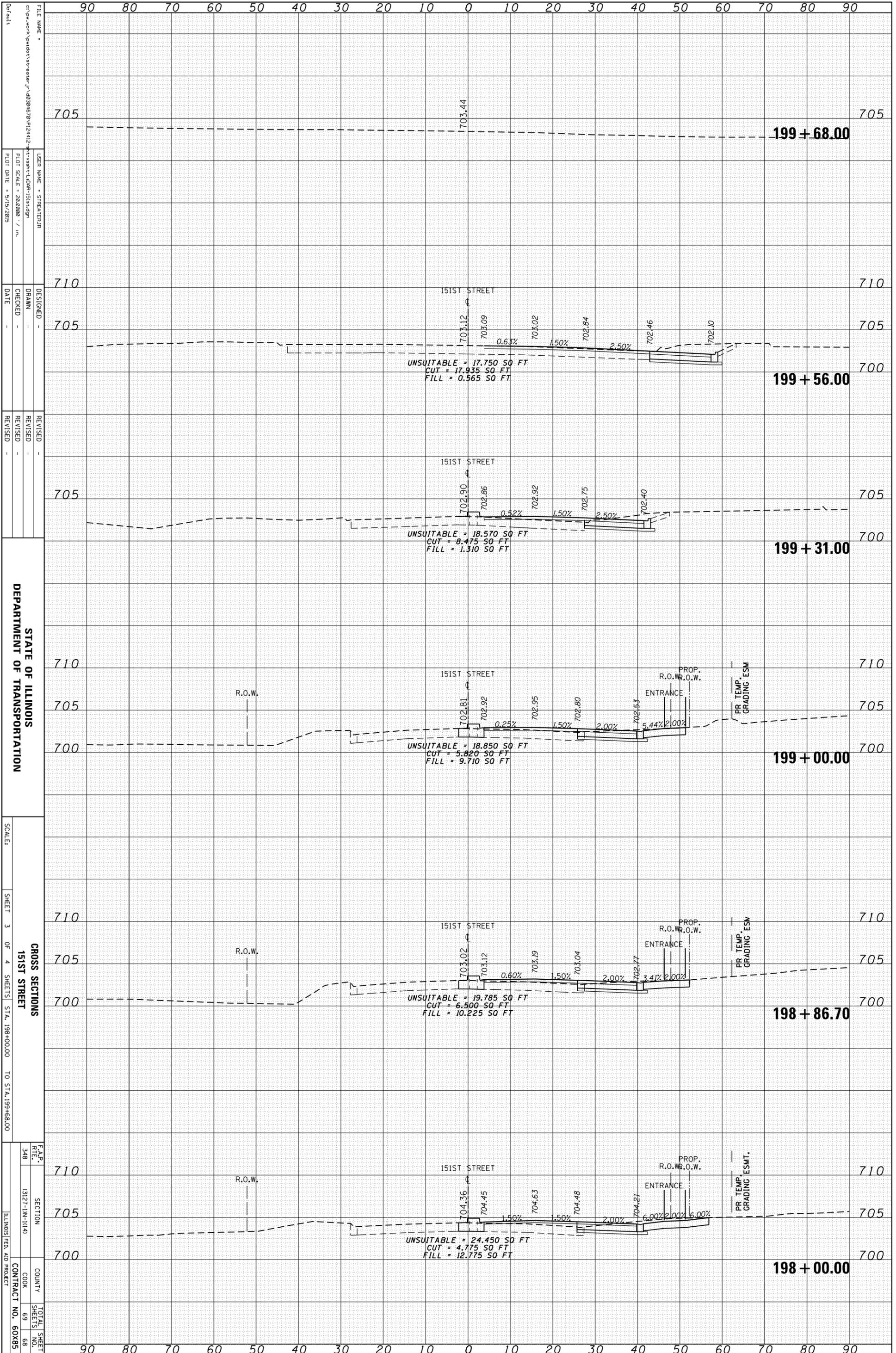
SCALE:

SHEET 2 OF 4 SHEETS STA. 195+00.00 TO STA. 197+36.48  
 GROSS SECTIONS  
 151ST STREET

F.A.P. 348  
 SECTION (3127-IN-1114)  
 COUNTY COOK  
 CONTRACT NO. 60X85  
 TOTAL SHEETS 69  
 SHEET NO. 67  
 ILLINOIS FED. AID PROJECT

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



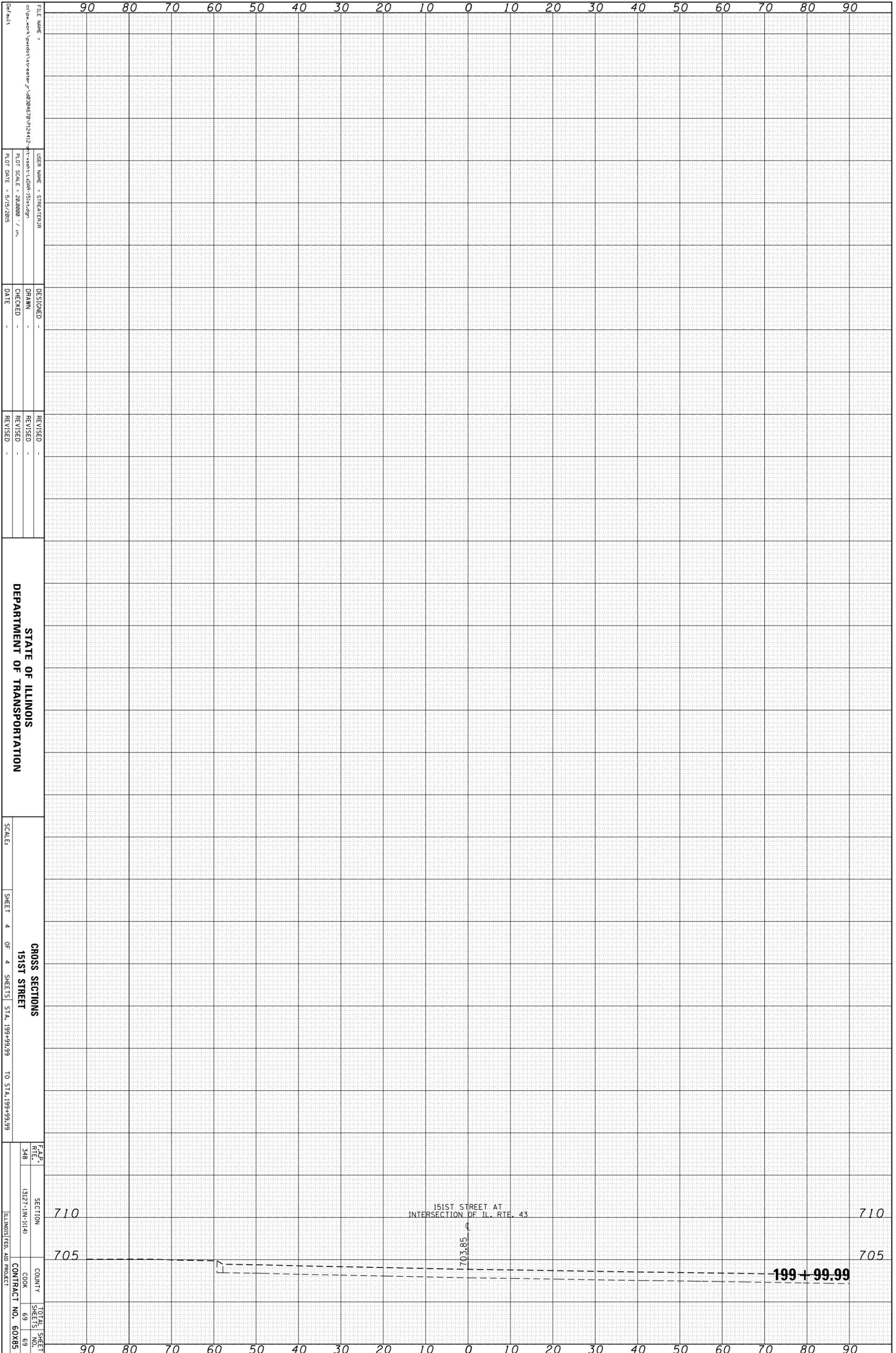
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
151ST STREET  
SHEET 3 OF 4 SHEETS STA. 198+00.00 TO STA. 199+68.00

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS
348	(3127-IN-1114)	COOK	69
			68
		CONTRACT NO.	60X85
		ILLINOIS FED. AID PROJECT	

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



FILE NAME =  
 USER NAME = STREETENR  
 DESIGNER =  
 DRAWN =  
 CHECKED =  
 DATE =

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE:  
 SHEET 4 OF 4 SHEETS STA. 199+99.99 TO STA. 199+99.99

F.A.P. R.T.E. 348  
 SECTION (3127-IN-1114)  
 COUNTY COOK  
 CONTRACT NO. 60X85  
 TOTAL SHEET NO. 69

ILLINOIS FED. AID PROJECT