

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 0021			
				URBAN			
				U.S. ROUTE 6 (159TH STREET) AT 71ST CT.	U.S. ROUTE 6 (159TH STREET) AT OAK PARK AVE.	U.S. ROUTE 6 (159TH STREET) AT 71ST CT.	U.S. ROUTE 6 (159TH STREET) AT OAK PARK AVE.
		90% FEDERAL 5% STATE 2.5% ORLAND PARK 2.5% TINLEY PARK	90% FEDERAL 5% STATE 5% OAK FOREST 2.5% TINLEY PARK	100% VILLAGE OF TINLEY PARK	100% CITY OF OAK FOREST		
			QUANTITY	QUANTITY	QUANTITY	QUANTITY	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	2		2		
40701921	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 12"	SQ YD	4.4		4.4		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	193	193			
42400800	DETECTABLE WARNINGS	SQ FT	44	44			
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	20	20			
44000600	SIDEWALK REMOVAL	SQ FT	59	59			
44003100	MEDIAN REMOVAL	SQ FT	45		45		
60605000	COMBINATION CONCRETE CURB AND GUTTER B-6.24	FOOT	20	20			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	1	3		
67100100	MOBILIZATION	L SUM	1	0.5	0.5		
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.5	0.5		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.5	0.5		
* 72000100	SIGN PANEL, TYPE 1	SQ FT	70.5	30.0	40.5		
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	208	208			

14 * SPECIALTY ITEMS

Rev. 2-18-14

PREPARED BY:
CEMCON, Ltd.
 Consulting Engineers, Land Surveyors & Planners
 2280 White Oak Circle, Suite 100
 Aurora, Illinois 60504-9875
 Ph: 630.862.2100 Fax: 630.862.2199
 E-Mail: cec@cemcon.com WebSite: www.cemcon.com

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2013-061TS	COOK	30	3
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X33	

FILE NAME \\MICROST\352189\ 03-SUMMARY.DGN	USER NAME JGC	DESIGNED - BPT	REVISED -
		DRAWN - RDS/JGC	REVISED -
		CHECKED - BPT	REVISED -
		DATE - 11-29-13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
 U.S. ROUTE 6 (159TH STREET) AT OAK PARK AVENUE AND 71ST COURT
 SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 0021			
				URBAN			
				U.S. ROUTE 6 (159TH STREET) AT 71ST CT.	U.S. ROUTE 6 (159TH STREET) AT OAK PARK AVE.	U.S. ROUTE 6 (159TH STREET) AT 71ST CT.	U.S. ROUTE 6 (159TH STREET) AT OAK PARK AVE.
				90% FEDERAL 5% STATE 2.5% ORLAND PARK 2.5% TINLEY PARK	90% FEDERAL 5% STATE 5% OAK FOREST 5% TINLEY PARK	100% VILLAGE OF TINLEY PARK	100% CITY OF OAK FOREST
				QUANTITY	QUANTITY	QUANTITY	QUANTITY
* 7800650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	84		84		
78300100	PAVEMENT MARKING REMOVAL	SQ FT	184		184		
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1		
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	798		798		
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	47		47		
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	104		104		
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	353		353		
81400100	HANDHOLE	EACH	6		6		
81400200	HEAVY-DUTY HANDHOLE	EACH	4		4		
81400300	DOUBLE HANDHOLE	EACH	1		1		
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2	1	1		
86400100	TRANSCEIVER - FIBER OPTIC	EACH	1		1		
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	953	953			
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1638	1330	308		

* SPECIALTY ITEMS

FILE NAME *
MICROST\352109\B4-SUMMARY.DGN

USER NAME * JGC
PLOT SCALE * 1"=20'
PLOT DATE * 11-29-13

DESIGNED - BPT
DRAWN - ROS/JGC
CHECKED - BPT
DATE - 11-29-13

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
U.S. ROUTE 6 (159TH STREET) AT OAK PARK AVENUE AND 71ST COURT

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

Rev. 2-18-14

PREPARED BY:
CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners
2280 White Oak Circle, Suite 100
Aurora, Illinois 60504-9675
P: 630.862.2100 Fax: 630.862.2199
E-Mail: cadd@cemcon.com Website: www.cemcon.com

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2013-061TS	COOK	30	4
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60X33	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 0021			
				QUANTITY	QUANTITY	QUANTITY	QUANTITY
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2234	767	1467		
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1995		1995		
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2050		2050		
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	39		39		
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	538		538		
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4		4		
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1		1		
87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	2		2		
87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1		1		
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16		16		
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4		
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	46		46		
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	16	9	7		
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5	2	3		

* SPECIALTY ITEMS

FILE NAME *
MICROST\252189\05-SUMMARY.DGN

USER NAME * JOC
PLOT SCALE = 1"=20'
PLOT DATE = 11-29-13

DESIGNED - BPT
DRAWN - RDS/JGC
CHECKED - BPT
DATE - 11-29-13

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
U.S. ROUTE 6 (159TH STREET) AT OAK PARK AVENUE AND 71ST COURT

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

PREPARED BY:
CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners
2280 White Oak Circle, Suite 100
Aurora, Illinois 60504-9675
PH: 630.862.2100 FAX: 630.862.2199
E-Mail: cec@cemcon.com Website: www.cemcon.com

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2013-061TS	COOK	30	5
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60X33	

Rev. 2-18-14

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 0021			
				QUANTITY	QUANTITY	QUANTITY	QUANTITY
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	7	2	5		
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2	2			
88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1		1		
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2	2			
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1	1			
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	24	12	12		
88500100	INDUCTIVE LOOP DETECTOR	EACH	9		9		
88600100	DETECTOR LOOP, TYPE I	FOOT	878		878		
88700200	LIGHT DETECTOR	EACH	3			3	
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1	
88800100	PEDESTRIAN PUSH BUTTON	EACH	4	4			
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1		
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2				2
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1				1

14) * SPECIALTY ITEMS

Rev. 2-18-14

FILE NAME *	USER NAME *	DESIGNED -	REVISED -
\\MICROST\352109\06-SUMMARY.DGN	JGC	BPT	-
		DRAWN -	REVISED -
		RDS/JGC	-
		CHECKED -	REVISED -
		BPT	-
		DATE -	REVISED -
		11-29-13	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
U.S. ROUTE 6 (159TH STREET) AT OAK PARK AVENUE AND 71ST COURT
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

PREPARED BY:
CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners
2280 White Oak Circle, Suite 100
Aurora, Illinois 60504-9675
Ph: 630.862.2100 Fax: 630.862.2199
E-Mail: cadd@cemcon.com WebSite: www.cemcon.com

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2013-061TS	COOK	30	6
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60X33	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 0021			
				URBAN			
				U.S. ROUTE 6 (159TH STREET) AT 71ST CT.	U.S. ROUTE 6 (159TH STREET) AT OAK PARK AVE.	U.S. ROUTE 6 (159TH STREET) AT 71ST CT.	U.S. ROUTE 6 (159TH STREET) AT OAK PARK AVE.
	90% FEDERAL 5% STATE 2.5% ORLAND PARK 2.5% TINLEY PARK	90% FEDERAL 5% STATE 5% OAK FOREST 2.5% TINLEY PARK	100% VILLAGE OF TINLEY PARK	100% CITY OF OAK FOREST			
			QUANTITY	QUANTITY	QUANTITY	QUANTITY	
89502200	MODIFY EXISTING CONTROLLER	EACH	1	1			
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1	1			
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4715		4715		
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2	1	1		
89502380	REMOVE EXISTING HANDHOLE	EACH	13		13		
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1		1		
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	8		8		
** X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1		1		
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	2	1	1		
X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	4884		4884		
X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	657			349 308	
Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1		1		
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1		1		
Ø Z0076600	TRAINEES	HOUR	500	500			
30300112	AGGREGATE SUBGRADE IMPROVEMENT, 12"	SO YD	4.4		4.4		
Ø Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500			

* SPECIALTY ITEMS
** SUPER P CABINET

FILE NAME *
\\MCR057\352189\07-SUMMARY.DGN

USER NAME * JGC
DESIGNED - BPT
DRAWN - RDS/JGC
CHECKED - BPT
DATE - 11-29-13

REVISIED -
REVISIED -
REVISIED -
REVISIED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

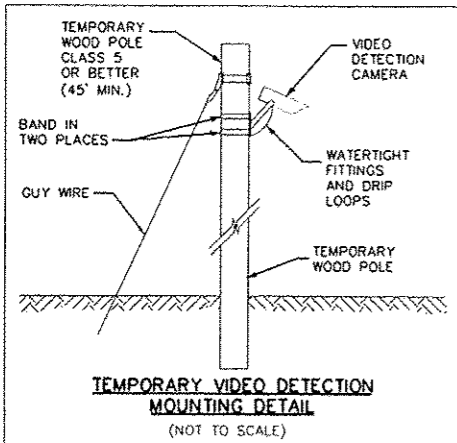
SUMMARY OF QUANTITIES
U.S. ROUTE 6 (159TH STREET) AT OAK PARK AVENUE AND 71ST COURT
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

PREPARED BY:
CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners
2280 White Oak Circle, Suite 100
Aurora, Illinois 60504-9675
Ph: 630.862.2108 Fax: 630.862.2199
E-Mail: codd@cemcon.com Website: www.cemcon.com

F.A.P. RTE. 351	SECTION 2013-061TS	COUNTY COOK	TOTAL SHEETS 30	SHEET NO. 7
CONTRACT NO. 60X33				

Rev. 2-18-14 Rev.

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



MATCH LINE A-A

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

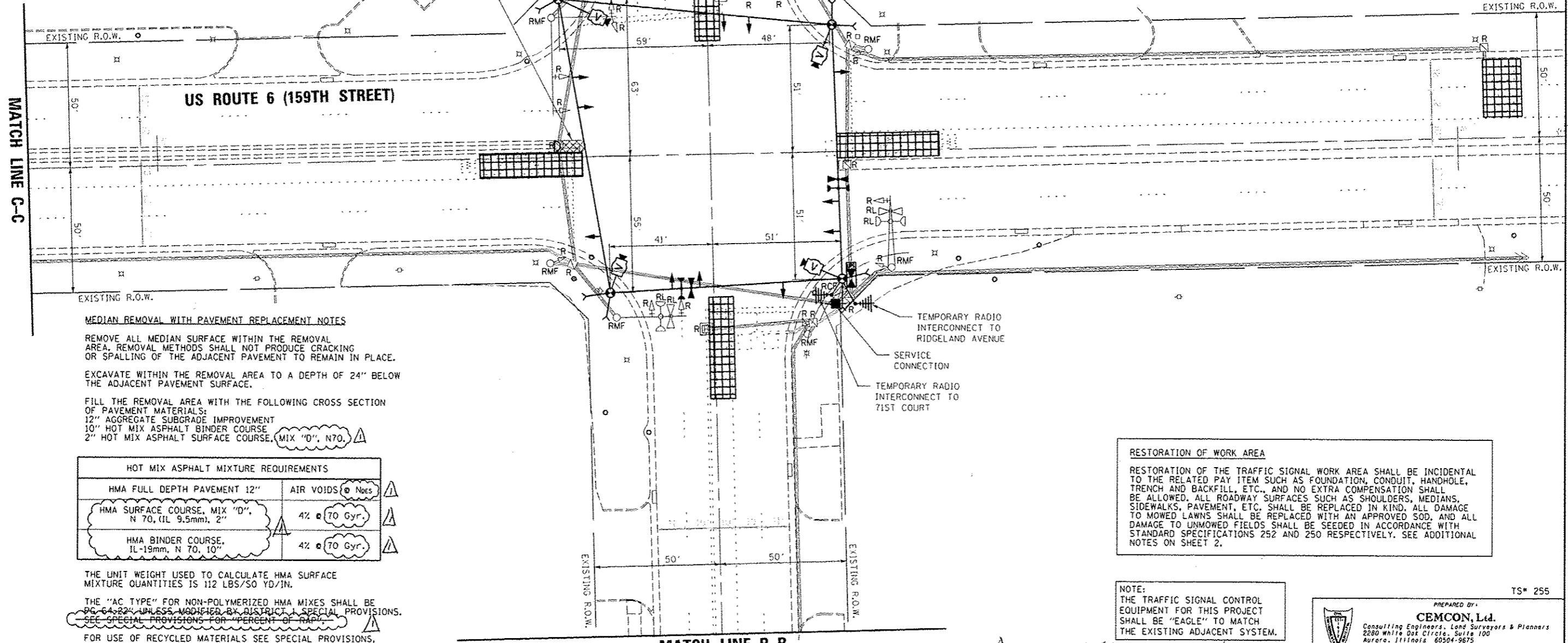
- 3 EACH TRAFFIC SIGNAL POST
- 3 EACH MAST ARM ASSEMBLY AND POLE
- 1 EACH MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS
- 2 EACH SIGNAL HEAD, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
- 1 EACH SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
- 7 EACH SIGNAL HEAD, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
- 3 EACH SIGNAL HEAD, 1-FACE, 5-SECTION, BRACKET MOUNTED
- 9 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH CONTROLLER AND CABINET, COMPLETE (EAGLE EPAC 300)
- 1 EACH SERVICE INSTALLATION, POLE MOUNT

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, 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 AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: CITY OF OAK FOREST

CONTACT INFORMATION:
TERRY LIPINSKY
OAK FOREST
PHONE: (708) 687-6050

- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER



MEDIAN REMOVAL WITH PAVEMENT REPLACEMENT NOTES

REMOVE ALL MEDIAN SURFACE WITHIN THE REMOVAL AREA. REMOVAL METHODS SHALL NOT PRODUCE CRACKING OR SPALLING OF THE ADJACENT PAVEMENT TO REMAIN IN PLACE.

EXCAVATE WITHIN THE REMOVAL AREA TO A DEPTH OF 24" BELOW THE ADJACENT PAVEMENT SURFACE.

FILL THE REMOVAL AREA WITH THE FOLLOWING CROSS SECTION OF PAVEMENT MATERIALS:
12" AGGREGATE SUBGRADE IMPROVEMENT
10" HOT MIX ASPHALT BINDER COURSE
2" HOT MIX ASPHALT SURFACE COURSE, MIX "D", N70.

HOT MIX ASPHALT MIXTURE REQUIREMENTS	
HMA FULL DEPTH PAVEMENT 12"	AIR VOIDS @ Nos. Δ
HMA SURFACE COURSE, MIX "D", N 70, (IL 9.5mm), 2"	4% @ 70 Gyr. Δ
HMA BINDER COURSE, IL-19mm, N 70, 10"	4% @ 70 Gyr. Δ

THE UNIT WEIGHT USED TO CALCULATE HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/50 YD³ IN.

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

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

RESTORATION OF WORK AREA

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. SEE ADDITIONAL NOTES ON SHEET 2.

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

Revised Sheet 2-18-14

FILE NAME: \\MICROST1\352189\159TH & OAK PARK TEMP SIG BLOCH	USER NAME: RDS	DESIGNED: BPT	REVISED:	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN U.S. ROUTE 6 (159TH STREET) AT OAK PARK AVENUE	SCALE: 1"=20'	SHEET NO. OF SHEETS STA. TO STA.	PREPARED BY: CEMCON, Ltd. Consulting Engineers, Land Surveyors & Planners 2280 White Oak Circle, Suite 100 Aurora, Illinois 60504-9675 Ph: 630.862.2100 Fax: 630.862.2199 E-Mail: cadd@cemcon.com Website: www.cemcon.com		TS# 255
		DRAWN: RDS/JGC	REVISED:					F.A.P. SECTION COUNTY TOTAL SHEETS SHEET NO.		
		CHECKED: BPT	REVISED:					351 2013-061TS COOK 30 14		
		DATE: 11-29-13	REVISED:					CONTRACT NO. 60X33		