CONTRACT NO. 83844

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00101-00-TL	MCHENRY	22	2
STA. -		TO STA.-		
FED. ROAD DIST. NO.	ILL. ROUTES	FED. AID PROJECT		

SUMMARY OF QUANTITIES

	ITEM	PAY CODE	DESCRIPTION	UNIT	Y031-1F TRAFFIC SIGNALS QUANTITY	Y030-1E HIGHWAY LIGHTING QUANTITY	I000 ROADWAY QUANTITY	TOTAL QUANTITY
*	1	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON			42	42
*	2	40600300	AGGREGATE (PRIME COAT)	TON			8.3	8.3
*	3	40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD			40.5	40.5
*	4	40600990	TEMPORARY RAMP	SQ YD			80	80
*	5	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT			677	677
*	6	42400800	DETECTABLE WARNINGS	SQ FT			66	66
*	7	44000006	BITUMINOUS SURFACE REMOVAL 1 1/2"	SQ YD			4146	4146
*	8	44000600	SIDEWALK REMOVAL	SQ FT			677	677
	9	67100100	MOBILIZATION	L SUM			1	1
	10	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM			1	1
	11	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM			1	1
	12	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM			1	1
*	13	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	300			300
*	14	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	48			48
*	15	72000100	SIGN PANEL - TYPE 1	SQ FT	86.5			86.5
*	16	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	109.2			109.2
*	17	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4320			4320
*	18	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	719			719
*	19	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	48			48
*	20	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	96			96
*	21	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	49			49
	22	80400100	ELECTRIC SERVICE INSTALLATION	EACH		1		1
	23	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM		1		1
	24	80700140	GROUND ROD, 5/8 DIA. X 10 FT	EACH		17		17
	25	81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	134	110		244
	26	81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	5			5
	27	81018600	CONDUIT PUSHED, 2 1/2" DIA. GALVANIZED STEEL	FOOT		152		152
	28	81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	227	58		285
	29	81400400	CONCRETE HANDHOLE	EACH	3			3
	30	81400600	CONCRETE DOUBLE HANDHOLE	EACH	1			1
	31	81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT		200		200
	32	81702440	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 1/0	FOOT		200		200
	33	82102100	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 100 WATT	EACH		8		8
	34	82102150	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 150 WATT	EACH		12		12
	35	82500505	LIGHTING CONTROLLER, SPECIAL	EACH		1		1
	36	83008400	LIGHT POLE, ALUMINUM, 30 FT. M.H., 10 FT. MAST ARM	EACH		8		8
	37	83008400	LIGHT POLE, ALUMINUM, 40 FT. M.H., 10 FT. MAST ARM	EACH		8		8
	38	83600400	POLE FOUNDATION METAL	EACH		16		16
	39	83800105	BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE	EACH		8		8
	40	83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH		8		8
	41	84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH		1		1
	42	85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1			1
	43	87301205	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1036			1036
	44	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1345			1345
	45	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	625			625
	46	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1220			1220
	47	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	429			429
	48	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4			4
	49	87702860	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1			1
	50	87702870	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT.	EACH	1			1
	51	87702880	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1			1
	52	87702890	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	1			1
	53	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16			16
	54	87800200	CONCRETE FOUNDATION, TYPE D	FOOT	4			4
	55	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	48			48
	56	88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8			8
	57	88700200	LIGHT DETECTOR	EACH	2			2
	58	88700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1
	59	88800100	PEDESTRIAN PUSH-BUTTON	EACH	8			8
	60	XX004679	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8			8
	61	XX006507	ELECTRIC CABLE IN CONDUIT, SIGNAL, BELDEN 5 1/2 PAIR NO. 16	FOOT	785			785
	62	XX006505	EXTERNAL LIGHT SHIELD, HOUSE SIDE	EACH		20		20
	63	XX006506	POLYETHYLENE DUCT, BORED AND PULLED, 1 1/4 INCH DIA WITH ELECTRIC CABLE 600 V (XLP TYPE- USE), 2-1/C NO. 6, 1/C NO. 6 GROUND AND 1/C NO. 14 GRAY TRACER WIRE	FOOT		3000		3000
	64	X0323370	TRAFFIC SIGNAL BATTERY BACKUP	EACH	1			1
*	65	X4006646	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70	TON			358	358
	66	X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	1			1
	67	X8070200	GROUND ROD ARRAY	EACH		1		1
	68	X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	249			249
	69	X8800220	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4			4
	70	X8800040	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4			4
	71	X8800045	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4			4
	72	XX003912	VIDEO VEHICLE DETECTION SYSTEM	L SUM	1			1

PLOT DATE = 8/17/2006
FILE NAME = N:\Projects\Lake\156983-Ackman\Design\Dgn\M20Rdsgn

SPECIFICATIONS, STANDARDS AND SPECIAL PROVISIONS

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JAN 1, 2002 (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED MARCH 1, 2005, THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE DETAILS IN THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS.

ANY REFERENCE TO THE STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE DEPARTMENT AS SHOWN.

ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.14 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL AT ALL TIMES PROVIDE PROTECTION FOR TRAFFIC AS CALLED FOR IN THE APPLICATION OF TRAFFIC CONTROL DEVICES ALONG THE SHOULDER NEXT TO THE EDGE OF THE PAVEMENT WHERE THERE IS ANY DROP OFF THREE INCHES OR GREATER.

THE CONTRACTOR SHALL PROVIDE CERTIFICATE OF INSURANCE AND NAME THE CITY OF CRYSTAL LAKE, MCHENRY COUNTY AND ROBERT H. ANDERSON & ASSOCIATES, INC. AS ADDITIONALLY INSURED.

UTILITIES

UTILITIES SHOWN ON THESE PLANS REFLECT SURVEY FOR ABOVE GROUND, OBSERVABLE FEATURES. NO SUBSURFACE EXPLORATION WAS COMPLETED. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES BY CONDUCTING A J.U.L.I.E. LOCATE PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING FACILITIES SO THE UTILITIES AND THEIR APPURTENANCES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS.

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

COORDINATION OF ALL UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT A PRECONSTRUCTION CONFERENCE.

ALL FIELD TILES ENCOUNTERED SHALL BE CAREFUL PRESERVED REPAIRED AND OR RECONNECTED TO THE EXISTING DRAINAGE TILE IF THE TILE IS DAMAGED DURING CONSTRUCTION. ANY FIELD TILES FOUND WITHIN THE LIMITS OF CONSTRUCTION SHALL BE WITNESSED BY THE ENGINEER PRIOR TO BACKFILLING.

STAKING

THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCED MARKERS UNTIL THE OWNER, HIS AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

ALL ELEVATIONS ARE ON U.S.G.S. DATUM.

STORM SEWER

ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS, CROSS ROAD PIPES, OR DRAINAGE STRUCTURES DUE TO CONSTRUCTION OPERATIONS SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCIDENTAL TO THE VARIOUS STORM SEWER ITEMS.

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS OR CATCH BASINS. HE SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND DISCHARGE THE SAME. HE SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWERS ARE BUILT AND IN SERVICE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCIDENTAL TO THE VARIOUS STORM SEWER ITEMS.

TRAFFIC SIGNALS

1. ALL SIGNAL POSTS SHALL BE SET BACK 4 FEET MINIMUM AND ALL MAST ARM POLES SHALL BE SET BACK 6 FEET MINIMUM FROM THEIR CENTER TO THE BACK OF CURB UNLESS OTHERWISE NOTED. IN NON-CURBED AREAS THE MAST ARM POLE AND THE SIGNAL POST SHALL BE LOCATED A MINIMUM OF 10 FEET BEHIND THE EDGE OF PAVEMENT OR 2 FEET BEHIND THE EDGE OF THE SHOULDER, WHICHEVER DISTANCE IS GREATER.

2. THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR THE LOCATIONS OF THE UTILITIES, CALL JULIE TOLL FREE 1-800-892-0123

3. CONDUITS UNDER ROADWAYS AND DRIVEWAYS SHOULD BE INSTALLED IN TRENCH BEFORE PAVEMENT IS PLACED.

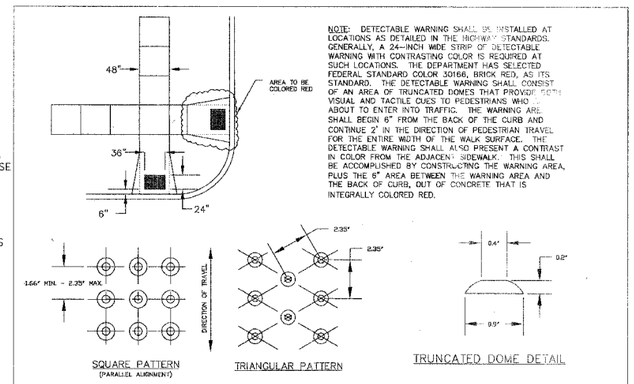
GENERAL

WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN IN PLACE, THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES IN WRITING. ALL SUCH MATCH LINES THAT ARE IN ASPHALT OR CONCRETE SHALL BE NEATLY SAW CUT. THE COST SHALL BE INCIDENTAL TO BITUMINOUS SURFACE REMOVAL.

DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING SIGNAGE NECESSARY TO FACILITATE SAFE TRAFFIC FLOW.

RESTORATION OF WORK AREA

1. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITION. THIS SHALL INCLUDE A MINIMUM OF 6" OF FINELY GRADED, PULVERIZED TOP SOIL, SEEDING AND BLANKET IN PARKWAY AREAS. IF PAVEMENT IS DISTURBED DURING THE CONSTRUCTION OF THE SIGNALS OR APPURTENANCES, THE PAVEMENT SHALL BE RESTORED IN-KIND TO ITS ORIGINAL CONDITION ACCORDING TO ALL APPLICABLE IDOT SPECIFICATIONS. NO ADDITIONAL PAYMENT SHALL BE MADE FOR RESTORATION. THIS ITEM SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION COST.



CITY OF CRYSTAL LAKE, ILLINOIS	DETECTABLE WARNING DETAIL
COMMUNITY DEVELOPMENT	
ENGINEERING DIVISION	REVISIONS BY / DATE: TCH 11-04; CMC 06-05 — DESIGN BY: — DRAWN BY: TCH — CHECK BY:
APPROVED William F. Keegan 06-05 CITY ENGINEER	

T-4.5

REVISIONS NAME	DATE
PRLM ENGR SUB1	9/9/05
FNL ENGR SUB1	12/29/05
FNL ENGR SUB2	2/10/06
FNL ENGR SUB3	2/17/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
ACKMAN ROAD (CR 42-A46) AT
GOLF COURSE ROAD
TRAFFIC SIGNAL IMPROVEMENTS

SUMMARY OF QUANTITIES - GENERAL NOTES
SCALE: NONE — DRAWN BY CMC
DATE 2-17-06 — CHECKED BY MAG

RHA&A
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TECHNICIAN — TECHNICIAN
TECHNICIAN — TECHNICIAN