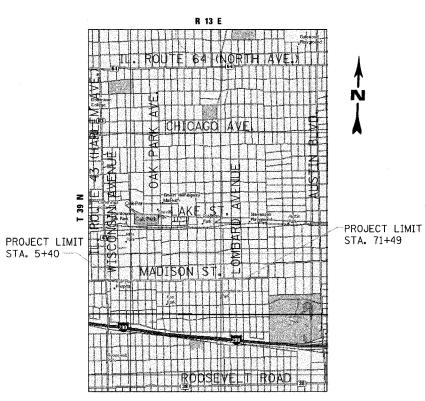
	NO DECODITION
SHEET	
1	COVER SHEET
2	GENERAL NOTES, HIGHWAY STANDARDS AND DISTRICT STANDARDS
3	SUMMARY OF QUANTITIES
4-6	MADISON STREET AND WISCONSIN AVENUE - EXISTING TRAFFIC SIGNAL PLAN - MODIFICATION PLAN - CABLE PLAN
7-9	MADISON STREET AND HOME AVENUE - EXISTING TRAFFIC SIGNAL PLAN - MODIFICATION PLAN - CABLE PLAN
10-12	MADISON STREET AND OAK PARK AVENUE - EXISTING TRAFFIC SIGNAL PLAN - MODIFICATION PLAN - CABLE PLAN
13-15	MADISON STREET AND EAST AVENUE - EXISTING TRAFFIC SIGNAL PLAN - MODIFICATION PLAN - CABLE PLAN
16-18	MADISON STREET AND RIDGELAND AVENUE - EXISTING TRAFFIC SIGNAL PLAN - MODIFICATION PLAN - CABLE PLAN
19-21	MADISON STREET AND LOMBARD AVENUE - EXISTING TRAFFIC SIGNAL PLAN - MODIFICATION PLAN - CABLE PLAN
22	INTERCONNECT PLAN - SHEET 1 OF 2
23	INTERCONNECT PLAN - SHEET 2 OF 2
24	MADISON STREET INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES
25	OAK PARK AVENUE INTERCONNECT SCHEMATIC
26	RIDGELAND AVENUE INTERCONNECT SCHEMATIC
27-34	DISTRICT DETAILS
	HIGHWAY STANDARDS
VILLA	GE OF OAK PARK
ADT N	MADISON STREET (2004) 28,639
	IADISON STREET (2014) 31,951
	D SPEED LIMIT MADISON STREET 30 mph
0 10	. 20' 30'
5.00000	—— 1" = 10'
<u></u>	50' 100' 1"= 20'

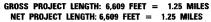
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS**

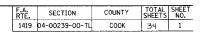
PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU ROUTE 1419 (MADISON STREET)
FROM WISCONSIN AVENUE TO LOMBARD AVENUE CMAQ TRAFFIC SIGNAL INTERCONNECTION PLAN SECTION 04-00239-00-TL PROJECT NO. CMM-8003 (449) JOB NO.: C-91-369-04

COOK COUNTY VILLAGE OF OAK PARK

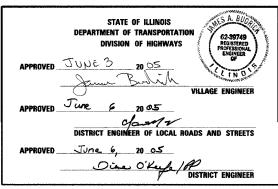






83792





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



ASSOCIATES, INC. 1170 SOUTH HOUBOLT ROAD

ON REDUCED PLANS. THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

CONTRACT NO. 83792

GENERAL NOTES

- 1. THE LOCATIONS OF THE VARIOUS UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL USE SPECIAL CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AND THE VILLAGE OF OAK PARK PUBLIC WORKS (708-358-5700) FOR FIELD LOCATIONS OF VARIOUS UTILITIES.
- 3. THE CONTRACTOR SHALL COORDINATE VARIOUS CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- 4. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKER MONUMENTS UNTIL THE OWNER, AN AUTHORIZED AGENT, OR LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUB-SECTION MONUMENTS DISRUPTED BY HIS/HER OPERATIONS.
- 5. BARRICADES: ALL UNBALLASTED TYPE I AND TYPE II BARRICADES SHALL HAVE TWO (2) SANDBAGS ON THE BOTTOM RAIL. A TYPE III BARRICADE SHALL REQUIRE A MINIMUM OF FOUR (4) SANDBAGS.
- 6. THE CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED AT ALL TIMES DURING AND AFTER REPLACEMENT OF COMBINATION CONCRETE. CURB AND GUTTER. THE CONTRACTOR SHALL DETERMINE THE PROPOSED GRADE OF THE GUTTER LINE TO ENSURE POSITIVE DRAINAGE.
- 7. TEN FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS TO EXISTING CURBS AND GUTTERS AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCIDENTAL TO THE
- 8. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL TAKE CARE TO PROTECT EXISTING LANDSCAPING AT LOCATIONS NOT SHOWN IN THE PLANS TO BE REMOVED AND AS DIRECTED BY THE ENGINEER. LANDSCAPING TO BE PROTECTED THAT IS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN KIND AT HIS/HER EXPENSE.
- 10. ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND THE VILLAGE OF OAK
- 11. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS AT ALL TIMES TO ALL PRIVATE AND COMMERCIAL PROPERTIES DURING THE CONSTRUCTION OF THIS PROJECT.
- 12. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PARKING METERS ALONG THE PROJECT CORRIDOR. IF THE PARKING METERS ARE FOUND TO INTERFERE WITH CONSTRUCTION ACITIVITY, THEY SHALL BE CAREFULLY REMOVED FROM THEIR METAL SUPPORT POST, STORED, AND IMMEDIATELY REINSTALLED WHEN THE HAZARD NO LONGER EXISTS, OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE CAREFUL NOT TO DAMAGE THE SUPPORT OR FOUNDATION WHEN REMOVING THE ADJACENT SIDEWALK. ANY DAMAGE TO OR LOSS OF ANY COMPONENT SHALL BE REPLACED OR REPAIRED AT NO EXTRA COST.
- 13. THE VILLAGE OF OAK PARK WATER DEPARTMENT (708-445-3340 EXT. 3375) SHALL BE RESPONSIBLE FOR TURNING THE WATER MAIN VALVES ON AND OFF. THE CONTRACTOR IS NOT ALLOWED TO TURN THE VILLAGE OF OAK PARK OWNED WATER MAIN VALVES ON AND OFF. THE CONTRACTOR SHALL CONTACT THE VILLAGE OF OAK PARK FOR A WATER METER IF NECESSARY.

HIGHWAY STANDARDS

000001-04 STANDARD SYMBOLS, ABBREVIATIONS, A	AND	PATTER
--	-----	--------

424001-04 CURB RAMPS FOR SIDEWALKS

442201-01 CLASS C AND D PATCHES

606001-02 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER

701301-02 LANE CLOSURE 2L, 2W SHORT TIME OPERATIONS URBAN LANE CLOSURE MULTILANE 1W OR 2W WITH

NON-TRANSVERSABLE MEDIAN 701606-04 URBAN LANE CLOSURE MULTILANE 2W WITH MOUNTABLE

701701-04 URBAN LANE CLOSURE MULTILANE INTERSECTION

LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR 701801-03

SIDEWALK CLOSURE

702001-05 TRAFFIC CONTROL DEVICES

814001

857001

CONCRETE HANDHOLES STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES

877001-02 STEEL MAST ARM ASSEMBLY AND POLE

TRAFFIC SIGNAL MOUNTING DETAILS 880006

886001

886006

DETECTOR LOOP INSTALLATION

TYPICAL LAYOUTS FOR DETECTION LOOPS

F.A. SECTION COUNTY 1419 04-00239-00-TL соок 34 2 TO STA. STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

DISTRICT STANDARDS

BD-24 CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

TC-14 TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)

TC-22 TEMPORARY INFORMATION SIGNING

TS-05 DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAIL (4 SHEETS)

REVISIONS NAME ILLINOIS DEPARTMENT OF TRANSPORTATION FAIL 1419 MADISON STREET GENERAL NOTES, HIGHWAY STANDARDS, BTRAND AND DISTRICT DETAILS SCALE: VERT. DRAWN BY RCB CHECKED BY RKK

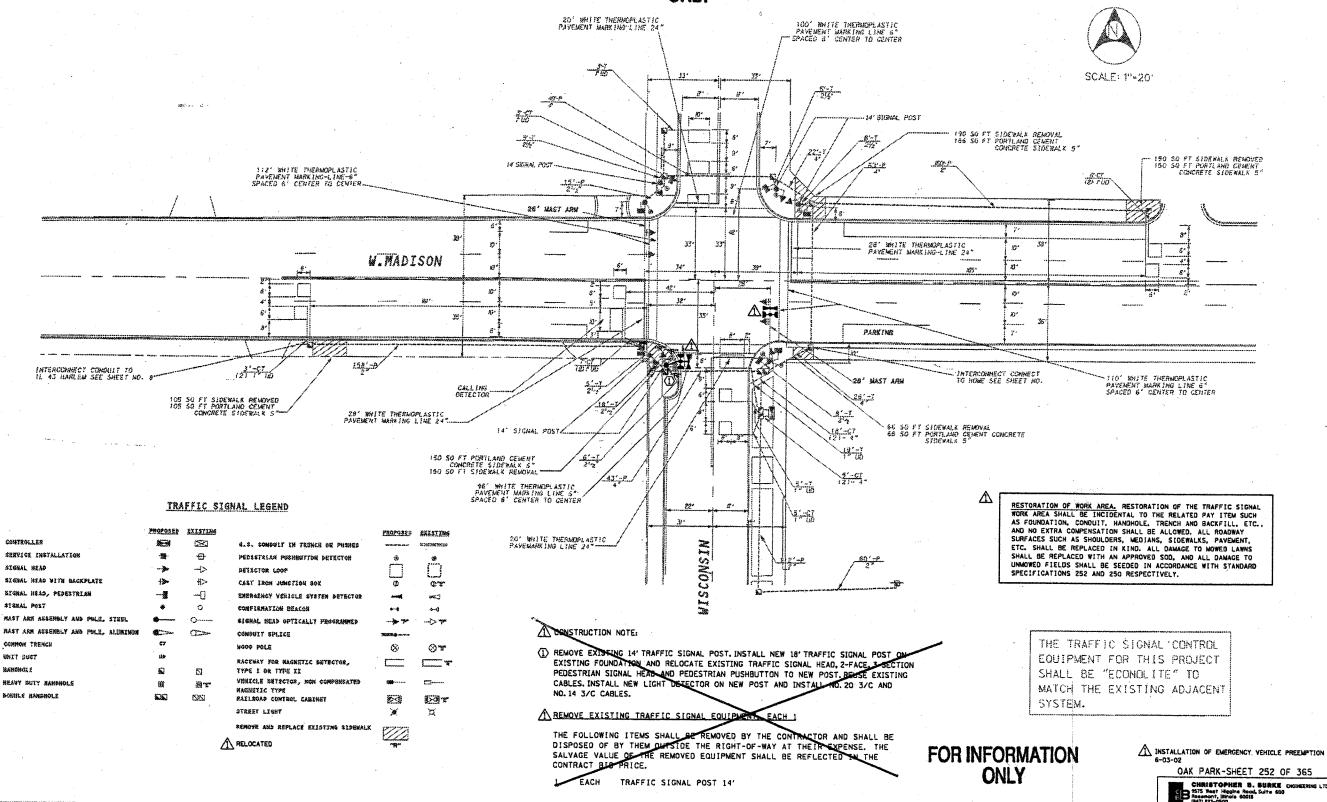
SUMMARY OF QUANTITIES

		LOCATION OF WAR			FAU ROUTE 1419 (MADISON STREET) 0						
		LOCATION OF WORK	CONSTR	RUCTION CODE	Y031-1F	Y031-1F 2	Y031-1F 3	Y031-1F //	Y031-1F	Y031-1F 💪	Y031-1F 7
	T	SUMMARY OF QUANTITIES		TOTAL	WISCONSIN AVE.	HOME AVE.	OAK PARK AVE.	EAST AVE.	RIDGELAND AVE.	LOMBARD AVE.	INTERCONNECT
SP	CODE NO.	ITEM	UNIT		WISCONSIN AVE.	HOME AVE.	OAK PARK AVE.	CAST AVE.	RIDGELAND AVE.	LOMBAND AVE.	TALEKCOMMEC!
	67100100	MOBILIZATION	L. SUM	1							<u> </u>
*	70102625	TRAFFIC CONTROL AND PROTECTION STANDARD 701606	1 51114		0.15		À	0.45	<u> </u>	~	
—	10102023	THATTE CONTROL AND PROTECTION STANDARD TO SOS	L. SUM	1	0.15	0.15	0.15	0.15	0.15	0.15	0.1
*	70102630	TRAFFIC CONTROL AND PROTECTION STANDARD 701601	L. SUM	1	0.15	0.15	0,15	0,15	0.15	0.15	0.1
		The state of the s	L. JOH		0.13	0.13	0.13	0.13	0.13	0.13	0.1
*	70102635	TRAFFIC CONTROL AND PROTECTION STANDARD 701701	L. SUM	1	0.15	0.15	0.15	0.15	0.15	0.15	0.1
				-					00	0	
*	70102640	TRAFFIC CONTROL AND PROTECTION STANDARD 701801	L. SUM	1	0,15	0.15	0.15	0.15	0.15	0.15	0.1
								·			
	81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FT	5235		173		357	166		4539
								,			
	81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FT	304		104		68	72	60	
	81400100	HANDHOLE	EACH	6			٧.				6
	0500				ļ						
-	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	6	1	1	1	1	1	1	
	85700500	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	FACU								
	85700500	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	2				1		1	
	86400100	TRANSCEIVER - FIBER OPTIC	EACH	2	-						2
	00100100	THATSOLITER OF THE	LACII								
	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	320		320					
			1001	520		<u> </u>					
	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FT	3253	677	592		660	647	677	
		2									
	87900200	DRILL EXISTING HANDHOLE	EACH	62	2	8	8	14	12	10	8
	88200100	TRAFFIC SIGNAL BACKPLATE	EACH	32	4	4		8	8	8	
	88500100	INDUCTIVE LOOP DETECTOR	EACH	10	2	2		2	2	2	,
			<u> </u>								
	88600100	DETECTOR LOOP, TYPE I	FT	1673	152	152	341	350	346	332	
	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	5	1	1		•	1		
ļ	03302313	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3	1	1		1	1	1	
-	X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO 14/10	FOOT	6342							6342
		The state of the s	1 1001	00,2							0312
	X8800020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	24	4	4		6	4	6	
		2								-	
	X8800035	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	16	6	6		2		2	***************************************
	X8800040	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	8				2	4	2	
	X8800045	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	8				2	4	2	
	<u></u>		1_								
	X8810610	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	26	6			8 -	4	8	-,
	V0010030	DEDECTOTAN CIONAL HEAD LED O FACE DOLONET HOUSE									
	X8810620	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	7	1	4			2		-
*	XX004980	REOPTIMIZE TRAFFIC SIGNAL SYSTEM	L. SUM	1	-						1
-	AAVVITOV	THE TAMEE TRAFFIC SIGNAL SISIEM	L. SUM	1							1
	XX003660	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM24F SM 12F	FT	6342							6342
		The State of					 				
	Z0013798	CONSTRUCTION LAYOUT	L. SUM	1							1
L			1 1		1		L			L	

F.A RTE.	SECTION		COUNTY		TOTAL SHEETS	SHEET NO.	
1419	04-00239-00-		COOK			34	3
STA.			го	STA.			
FED. RO	AD DIST. NO.	ILLIN	210	FED.	AID	PROJECT	
				837	9	2	

	REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION					
	NAME	DATE	ILLEINOIS DEL ANTIMENT OF TRANSFORTATION					
			MADISON STREET CMAQ					
STRAND			SUMMARY OF QUANTITIES					
ASSOCIATES, INC.º ENGINEERS			SCALE: VERT. NONE DRAWN BY RCB					
			SCALE: HORIZ. DRAWN BY RCB DATE 06/06/2005 CHECKED BY RKK					

FOR INFORMATION ONLY





METRO TRANSPORTATION GROUP, INC.

TRANSPORTATION PLANNING, ENGINEERING AND DESIGN 1300 GREENBROOK, HANOVER PARK, IL 60103 PH# 630 213-1000

L		REVISIONS
秒.	DATE	DESCRIPTION
$\Delta \Lambda$	6-03-02	ADDITION OF EVP
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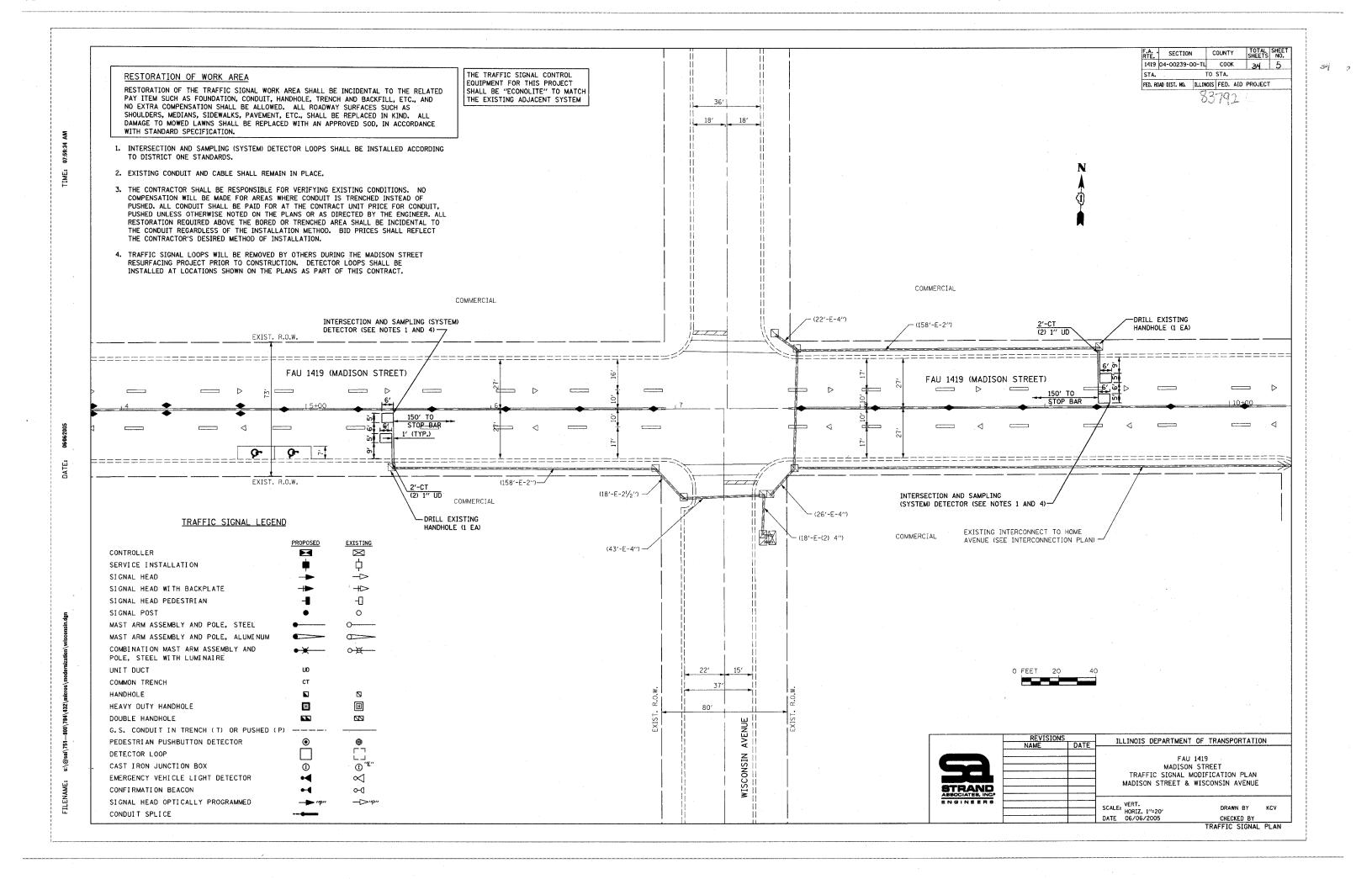
GEOMETRIC PLAN AND SIGNAL INSTALLATION PLAN

> MADISON @ WISCONSIN OAKPARK, ILLINOIS

FILE NAMES
06.30.dgr
8ATE:
POV. 5. 2000

PROJECT NO.1 H0004-04 05

SHEET NO. :



icros
432\m
784
1-800
ai\75
(@s
8
FILENAME:

ENERGY SUPPLY CONTACT:

PHONE:

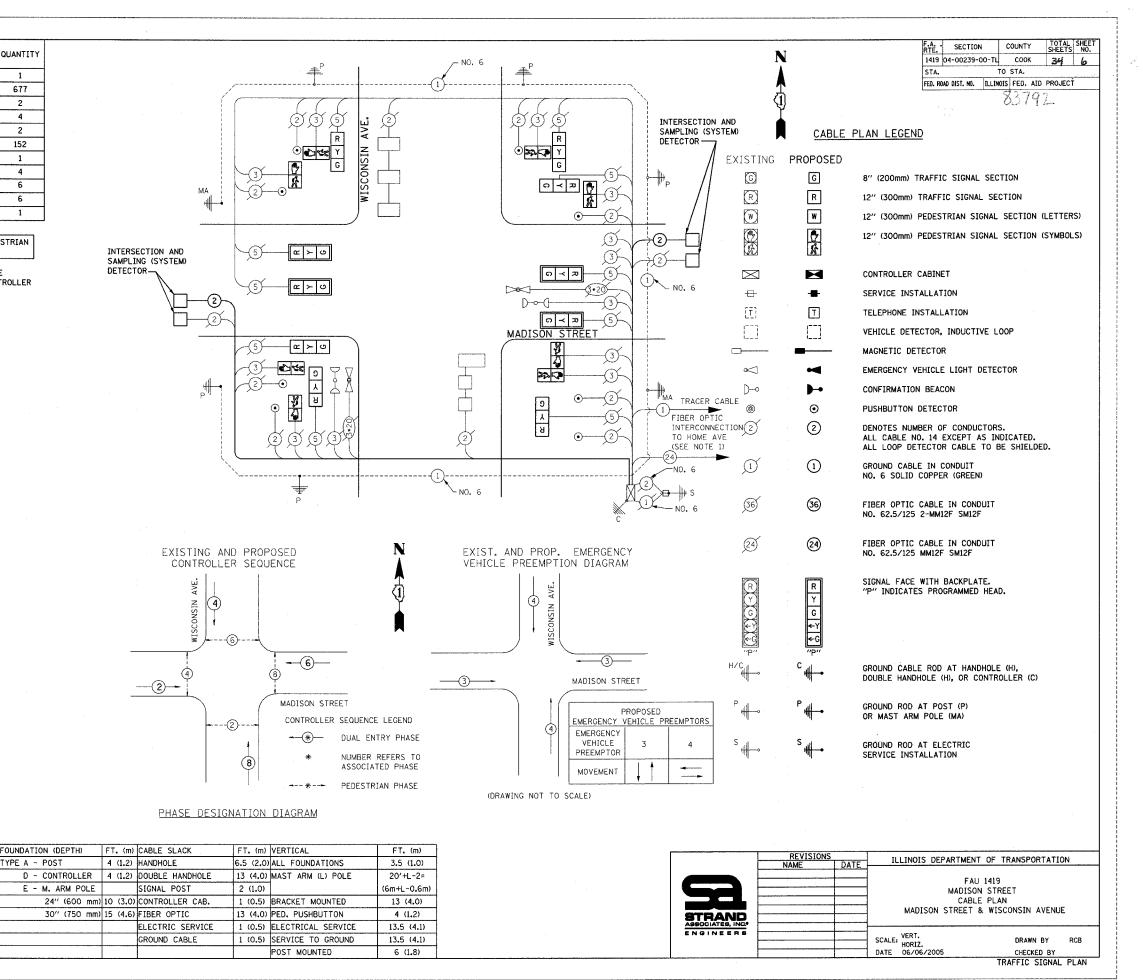
COMPANY:

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	677
DRILL EXISTING HANDHOLE	EACH	2
TRAFFIC SIGNAL BACKPLATE	EACH	4
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE I	FOOT	152
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	6
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	1
THE CONTRACTOR SHALL REPLACE ALL EXISTING SIGNAL HEADS SIGNAL HEADS WITH L.E.D. (LIGHT EMITTING DIODE) SIGNAL HEADS I. THE CONTRACTOR SHALL RE-CONNECT THE EXISTING FIBER OF	DS.	

AT WISCONSIN AVENUE.

I.D.O.1	T. TRAFFIC SIG	NAL INST	ALLATI	ON		
ELEC	TRICAL SERVI	CE REQUIF	REMENTS	S	TOTAL	
TYPE	NO. LAMPS	WATT	AGE	%OPERATION	WATTAGE	
	1101 271111 0	INCAND.	LED	NOT ENTERIOR		
IGNAL (RED)	10		17	0.50	85	
(YELLOW)	10		25	0.25	62.5	7
(GREEN)	10		15	0.25	37.5	1
RROW	0		12	0.10	0	
ED. SIGNAL	8		25	1.00	200	1
ONTROLLER	1		100	1.00	100	1
LLUM. SIGN				0.05	0	1
						7
LASHER	1			0.50	0	F
ENERGY COSTS TO	:			TOTAL =	485	Т
						Τ
	VILLAGE OF O	AK PARK		•		Г
				•		\vdash

Commonwealth Edison





TRAFFIC SIGNAL LEGEND

PROPOSED EXISTING CONTROLLER SERVICE INSTALLATION SIGNAL HEAD SIGNAL HEAD WITH BACKPLATE SIGNAL HEAD, PEDESTRIAN SIGNAL POST MAST ARM ASSEMBLY AND POLE, STEEL MAST ARM ASSEMBLY AND POLE, ALUMINUM COMBINATION MAST ARM ASSEMBLY AND POLE. STEEL WITH LUMINAIRE 0-)X-- HANDHOLE HEAVY DUTY HANDHOLE DOUBLE HANDHOLE $\Box\Box$ G.S. CONDUIT IN GROUND (CIG) PEDESTRIAN PUSHBUTTON DETECTOR DETECTOR LOOP CAST IRON JUNCTION BOX EMERGENCY VEHICLE SYSTEM DETECTOR \forall CONFIRMATION BEACON SIGNAL HEAD OPTICALLY PROGRAMMED → "P" CONDUIT SPLICE WOOD POLE ⊗″£″ RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II "E" ----VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE RAILROAD CONTROL CABINET

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 RADDWAY 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 RESPECTIVED.

FOR INFORMATION ONLY SCALE IN FEET 1" = 20" (43'-E-(3)1" UD) (4'-E-2") --- (20'-E-2") -(161'-E-2") (56'-E-21/z")----(7'-E-1" UD) -- (90'-E-31/2") STREET MADISON (13'-E-1" UD) --(29'-E-2")-(173'-E-11/4")-(6'-E-(2) 4"1 (11'-E-2") --(48'-E-11/2") (47-E-1/2")---

CONSTRUCTION NOTE:

(I) BEMOVE EXISTING 14' TRAFFIC SIGNAL POST, INSTALL NEW 14' TRAFFIC SIGNAL POST ON EXISTING FOUNDATION AND RELOCATE EXISTING TRAFFIC SIGNAL HEAD, I-FACE I SECTION TO NEW POST, REUSE EXISTING CABLES, INSTALL NEW LIGHT DETECTOR ON NEW POST AND INSTALL NO. 20 3/C AND NO. 14 3/C CABLES, 14' POST DUE TO THEE CANOPY AT THIS LOCATION.

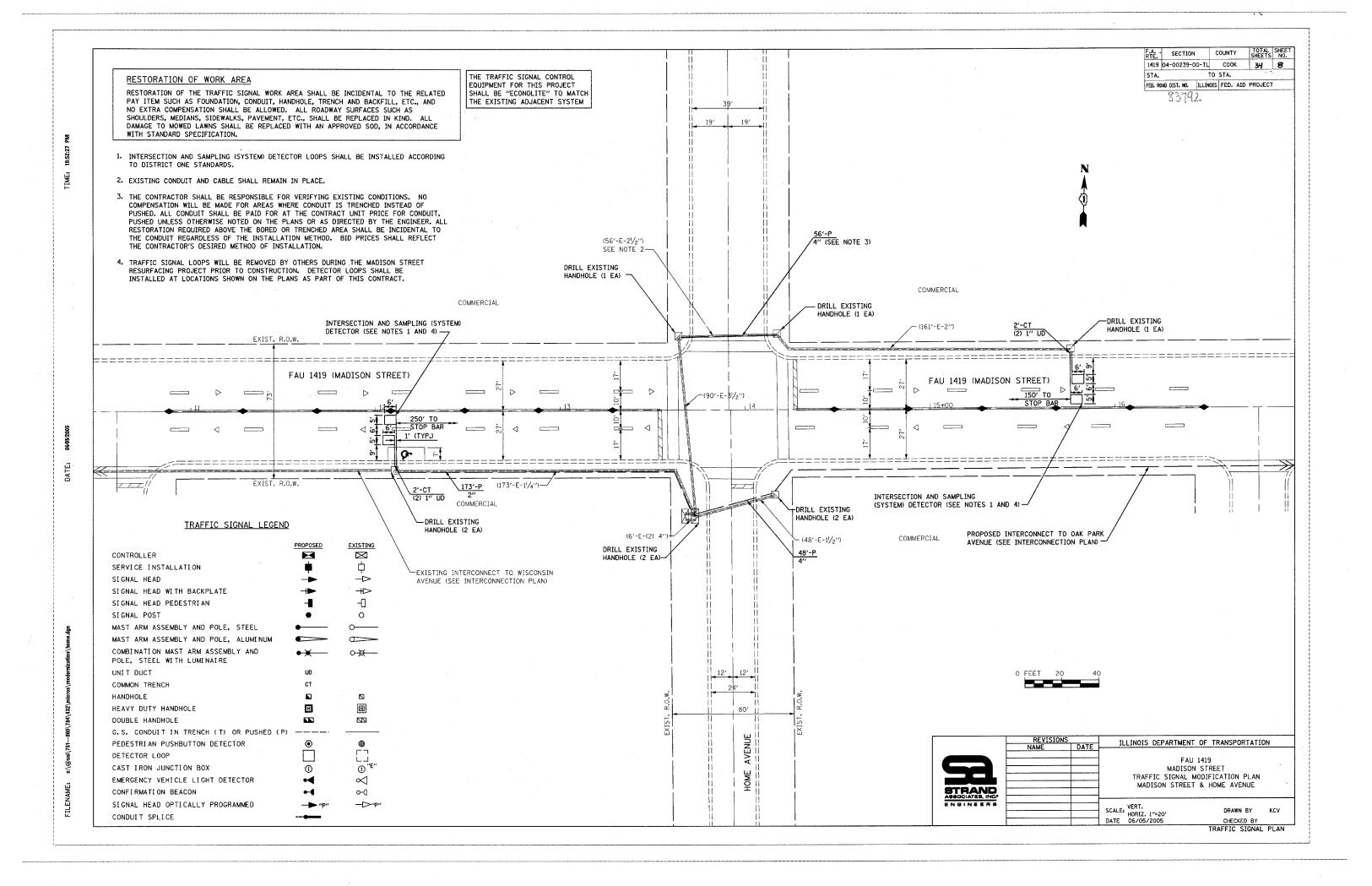
REMOVE EXISTING TRAFFIC SIGNAL SOUIPMENT. EACH 1

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

2 EACH TRAFFIC SIGNAL POST 14'

FOR INFORMATION ONLY

EVISIONS	ILLINOTE DEPARTMEN	NT OF TRANSPORTATION					
ME DATE	TECHNOIS DEPARTME	AT OF TRANSFORTATION					
	TRAFFI	C SIGNAL					
	-						
	MODIFICA	ATION PLAN					
	MADISON STREE	T AT HOME AVENUE					
	OAK PAR	RK, ILLINOIS					
	SCALE: 1" = 20"	DRAWN BY: FP8					
		DESIGNED BY: SJP					
	DATE: 6-03-02	CHECKED BY: GMZ					



ENERGY SUPPLY CONTACT:

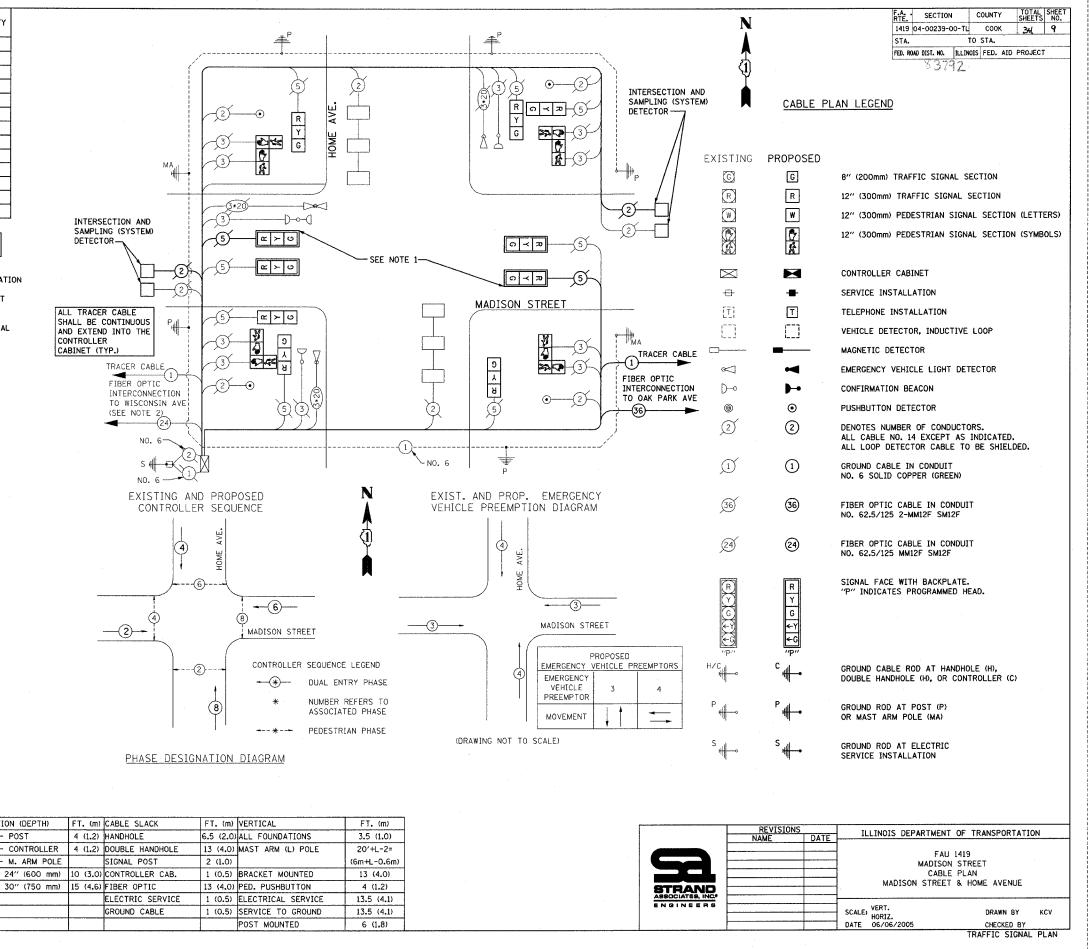
ITEM	UNIT	QUANTITY
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	173
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	104
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	320
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	592
DRILL EXISTING HANDHOLE	EACH	8
TRAFFIC SIGNAL BACKPLATE	EACH	4
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE I	FOOT	152
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	4

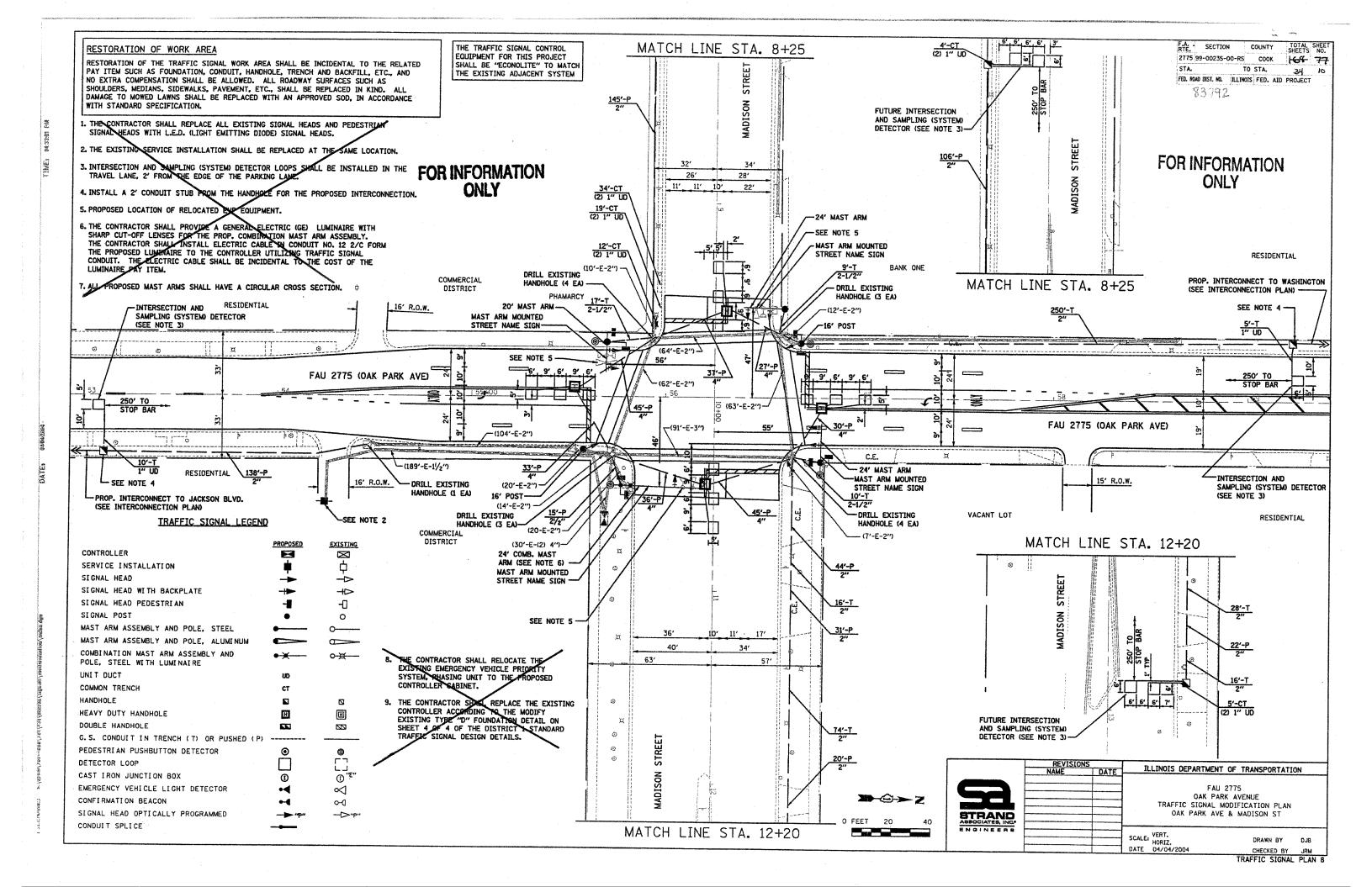
THE CONTRACTOR SHALL REPLACE ALL EXISTING SIGNAL HEADS AND PEDESTRIAN SIGNAL HEADS WITH L.E.D. (LIGHT EMITTING DIODE) SIGNAL HEADS.

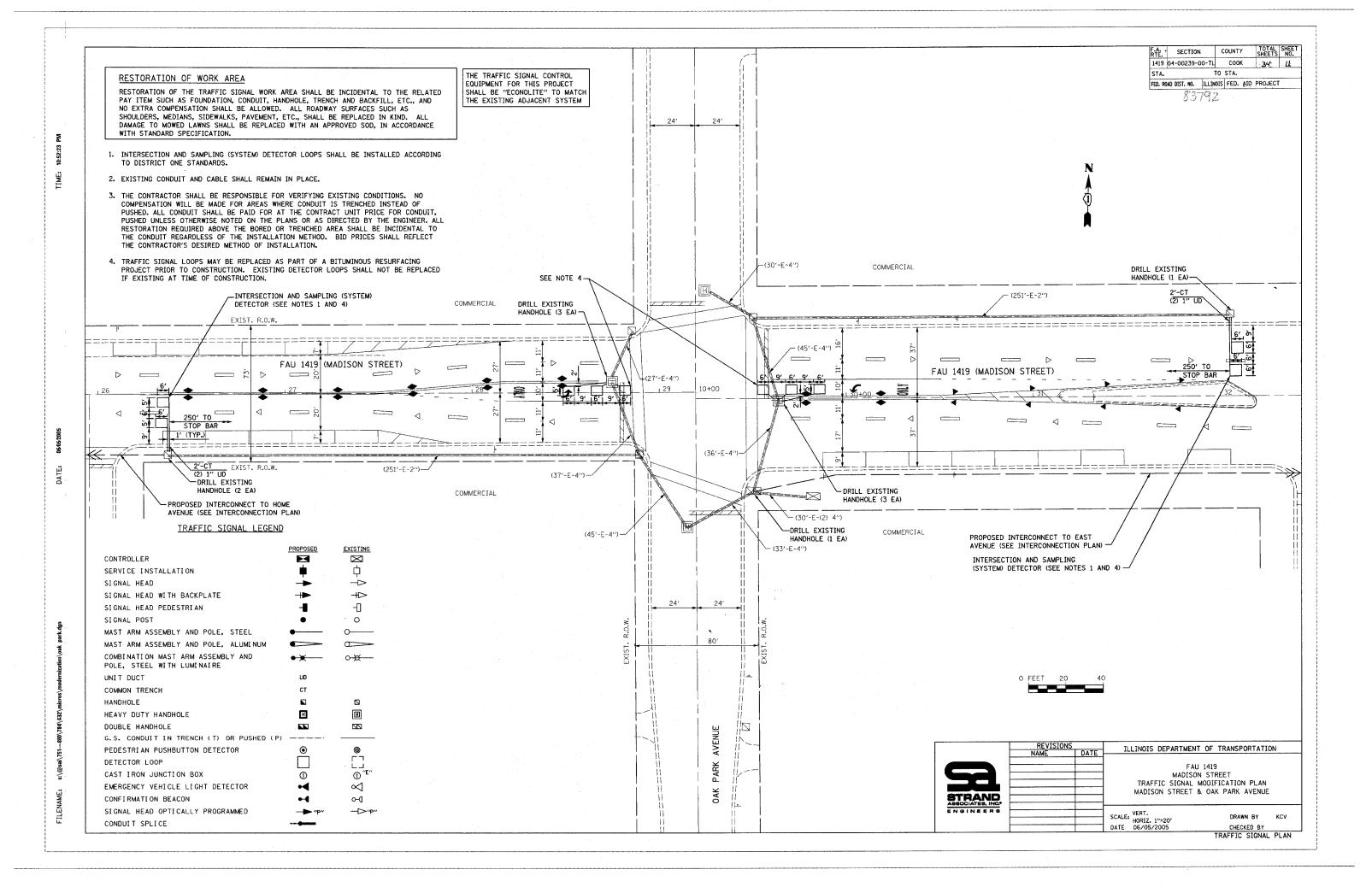
- 1. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGNAL HEADS AT A NEW LOCATION ON THE MAST ARM. THE SIGNAL HEAD SHALL ALIGN WITH THE PARKING BAY DELINEATION LOCATED 7' FROM THE EDGE OF PAVEMENT. THE EXISTING STREET NAME SIGN SHALL BE RELOCATED TO ACCOMODATE THE NEW SIGNAL HEAD ACCORDING TO HIGHWAY STANDARD 877001-01 STEEL MAST ARM ASSEMBLY AND POLE. RELOCATION OF THE STREET NAME SIGN SHALL BE INCIDENTAL TO SIGNAL HEAD INSTALLATION AND SHALL NOT BE PAID FOR SEPARATELY.
- 2. THE CONTRACTOR SHALL RE-CONNECT THE EXISTING FIBER OPTIC CABLE IN PLACE BETWEEN WISCONSIN AVENUE AND HOME AVENUE TO THE CONTROLLER AT HOME AVENUE.

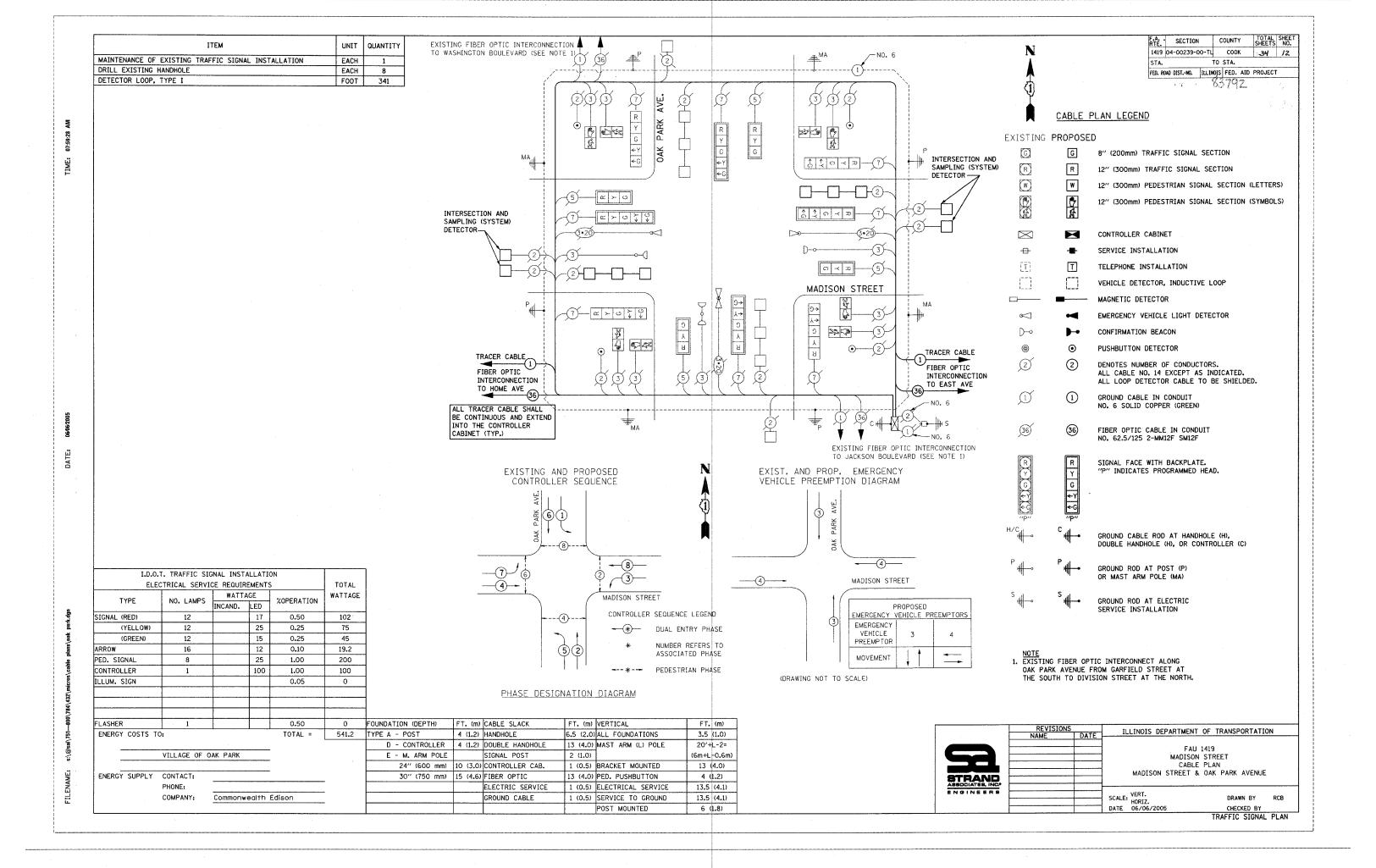
I.D.O.	T. TRAFFIC SIG	SNAL INST	ALLATI	ON		7			
ELEC	ELECTRICAL SERVICE REQUIREMENTS								
TYPE	NO. LAMPS	WATT	4GE	%OPERATION	WATTAGE				
		INCAND.	LED	ZUPERATION					
SIGNAL (RED)	8		17	0.50	68	1			
(YELLOW)	8		25	0.25	50				
(GREEN)	8		15	0.25	30				
ARROW	0		12	0.10	0				
PED. SIGNAL	8		25	1.00	200				
CONTROLLER	1		100	1.00	100				
ILLUM. SIGN				0.05	0				
FLASHER	1			0.50	0	FOUNDATIO			
ENERGY COSTS TO):			TOTAL =	448	TYPE A -			
						0 -			
	VILLAGE OF O	AK PARK			2	E -			

Commonwealth Edison









OAK PARK \$3792

TRAFFIC SIGNAL LEGENO

PROPOSED EXISTING CONTROLLER SERVICE INSTALLATION ф SIGNAL HEAD ----SIGNAL HEAD WITH BACKPLATE +0> SIGNAL HEAD, PEDESTRIAN -0 SIGNAL POST MAST ARM ASSEMBLY AND POLE, STEEL MAST ARM ASSEMBLY AND POLE, ALUMINUM COMBINATION WAST ARM ASSEMBLY AND POLE. STEEL WITH LUMINAIRE 0-X UNIT DUCT HANDHOLE HEAVY DUTY HANDHOLE DOUBLE HANDHOLE G.S. CONDUIT IN GROUND (CIG) PEDESTRIAN PUSHBUTTON DETECTOR DETECTOR LOOP CAST IRON JUNCTION BOX EMERGENCY VEHICLE SYSTEM DETECTOR 7 \$ ∆ CONFIRMATION BEACON SIGNAL HEAD OPTICALLY PROGRAMME -C>"P" CONDUIT SPLICE ⊗..E.. RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II **□** "E" □ VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE RAILROAD CONTROL CABINET ₽3 **∑**≪ "E"

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED TAY 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.

FOR INFORMATION ONLY

EAST

FOR INFORMATION

ONLY

(68'-E-3") ---

--(25'-E-1" UD)

-- (18'-E-21/2')

-(25'-E-1" UD)

-(42'-E-1" UD)

SCALE IN FEET

-- (168'-E-1¹/4'')

STREET

1" = 20'

(90'-E-11/2")

(118'-E-1/2'?-

(35'-E-1" UD)

(17'-E-2") --

(8'-E-(2) 4")-

(27'-E-21/2")---

(16'-E-3")-

(4'-E-21/2')

MADISON

(189'-E-11/4") --

(8'-E-1" UD)---

REVISIONS DATE

NAME DATE

SCAL

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL

MODIFICATION PLAN

MADISON STREET AT EAST AVENUE
OAK PARK, ILLINOIS

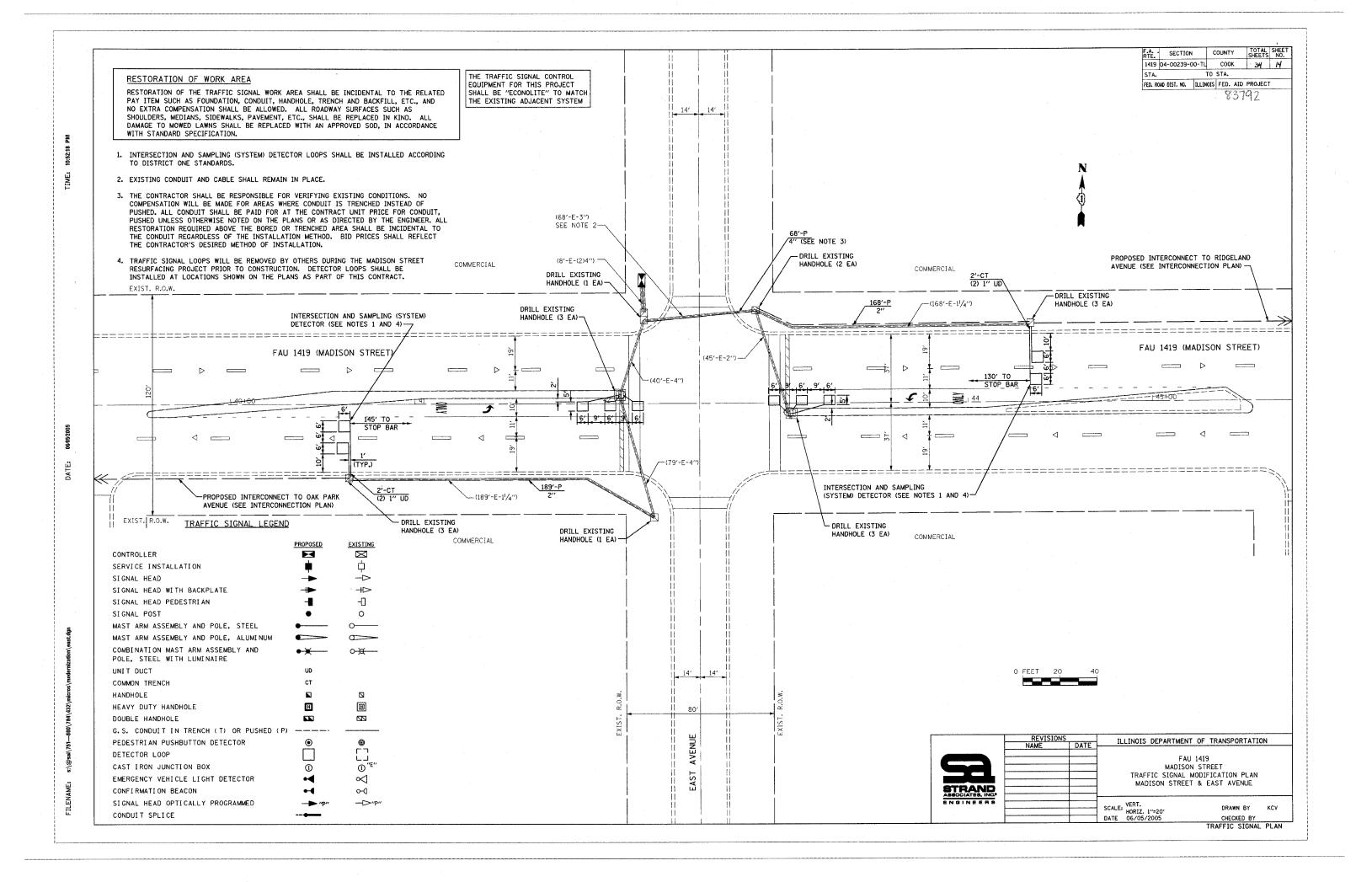
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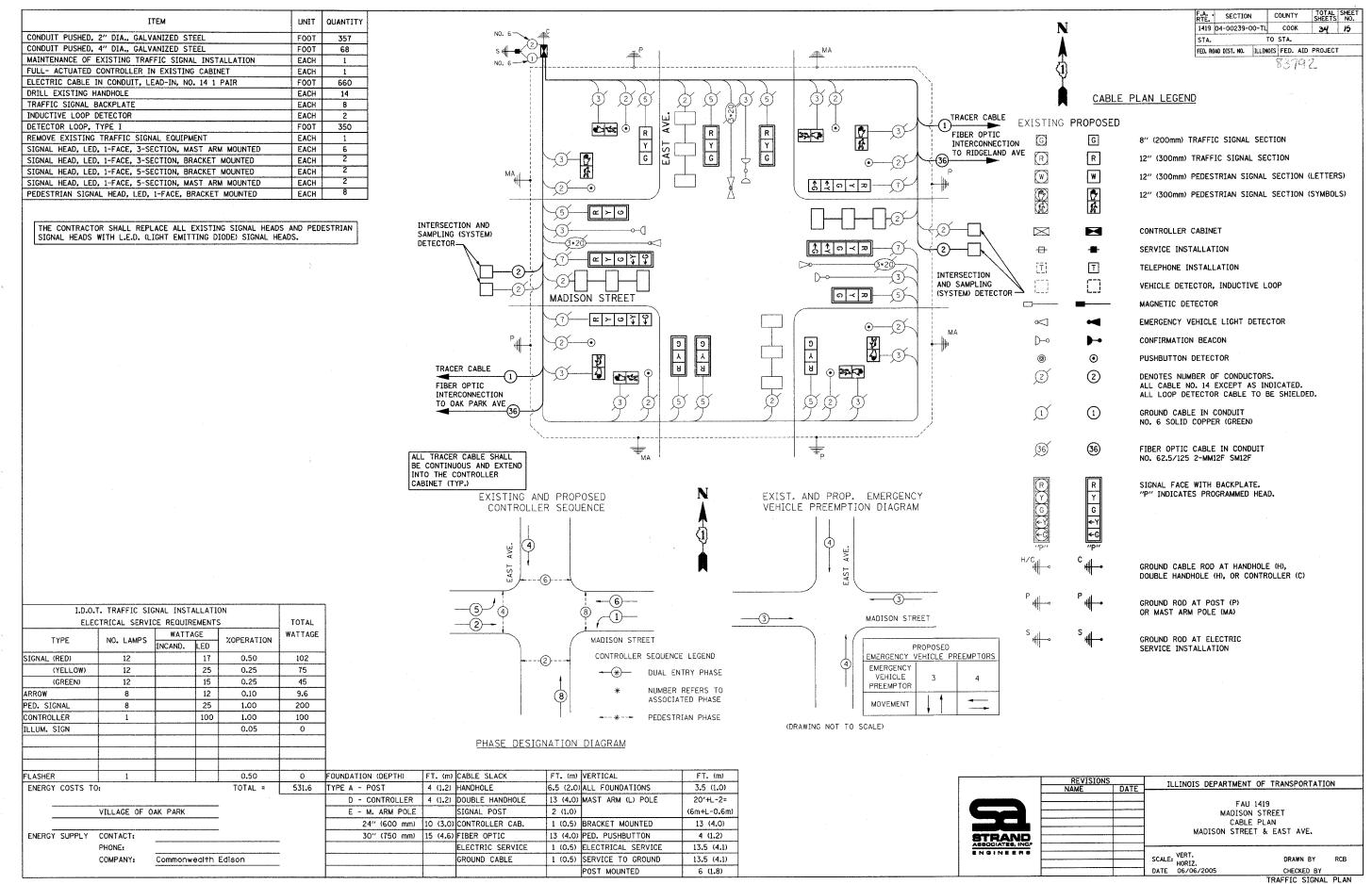
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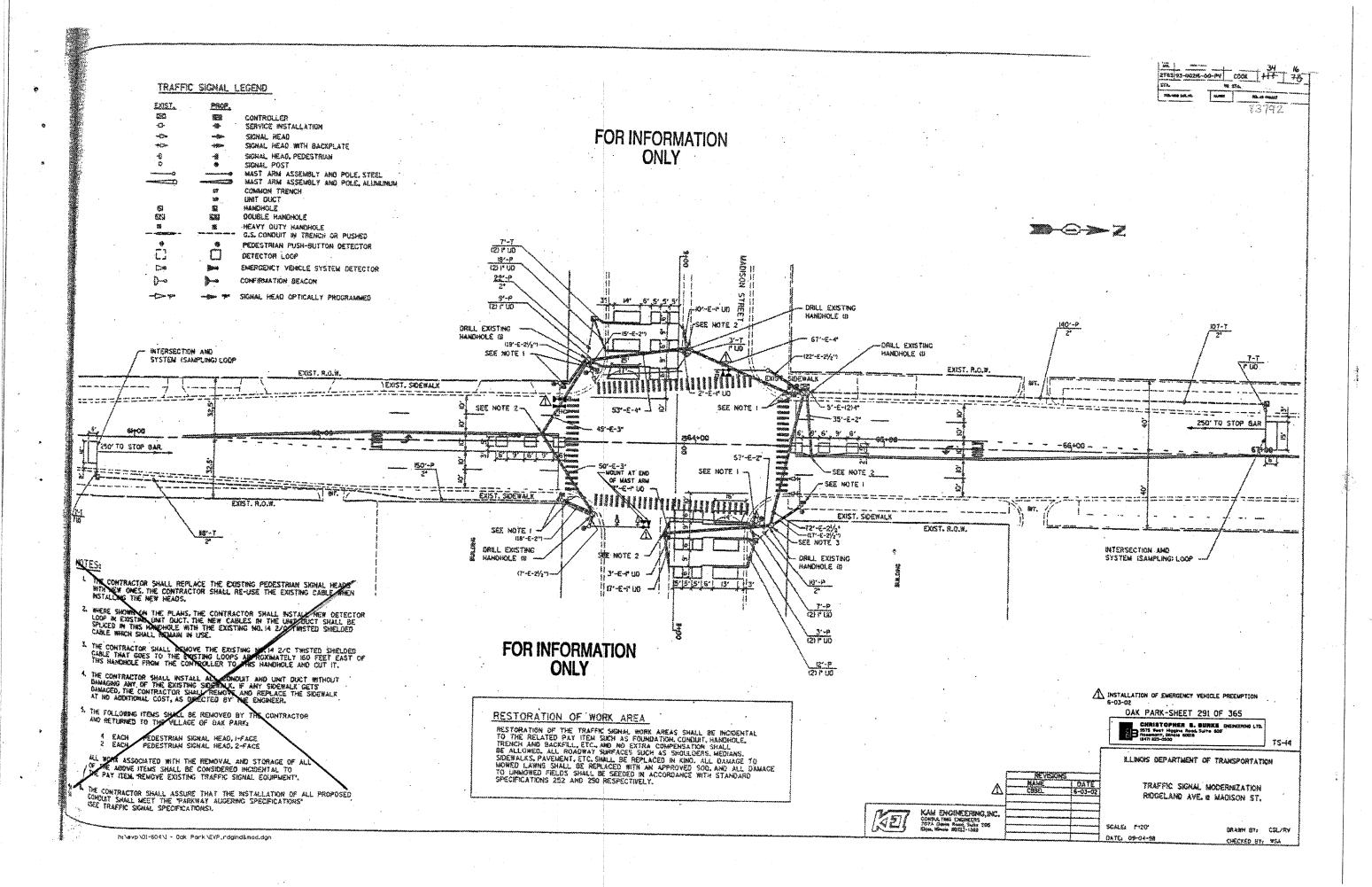


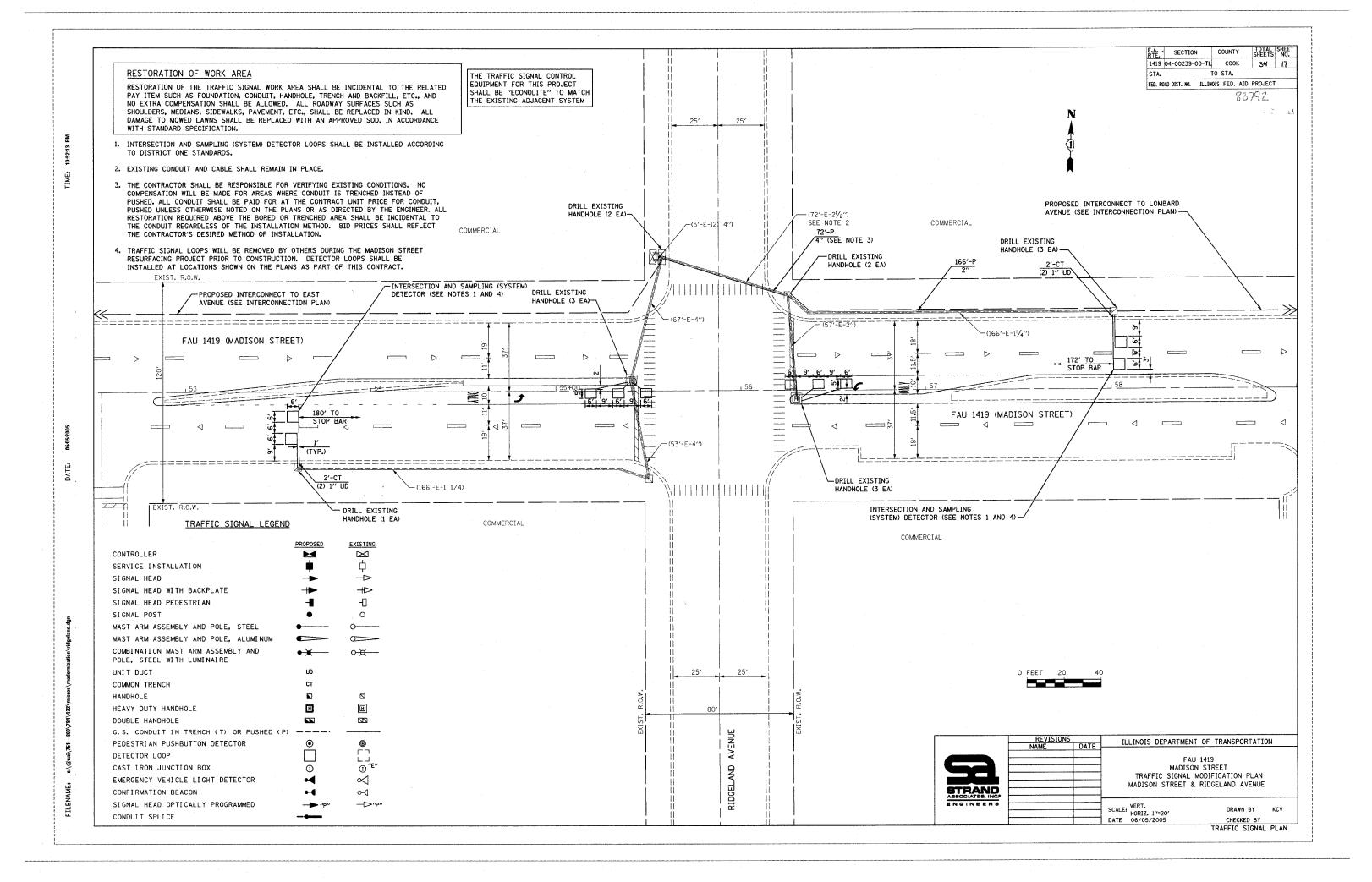


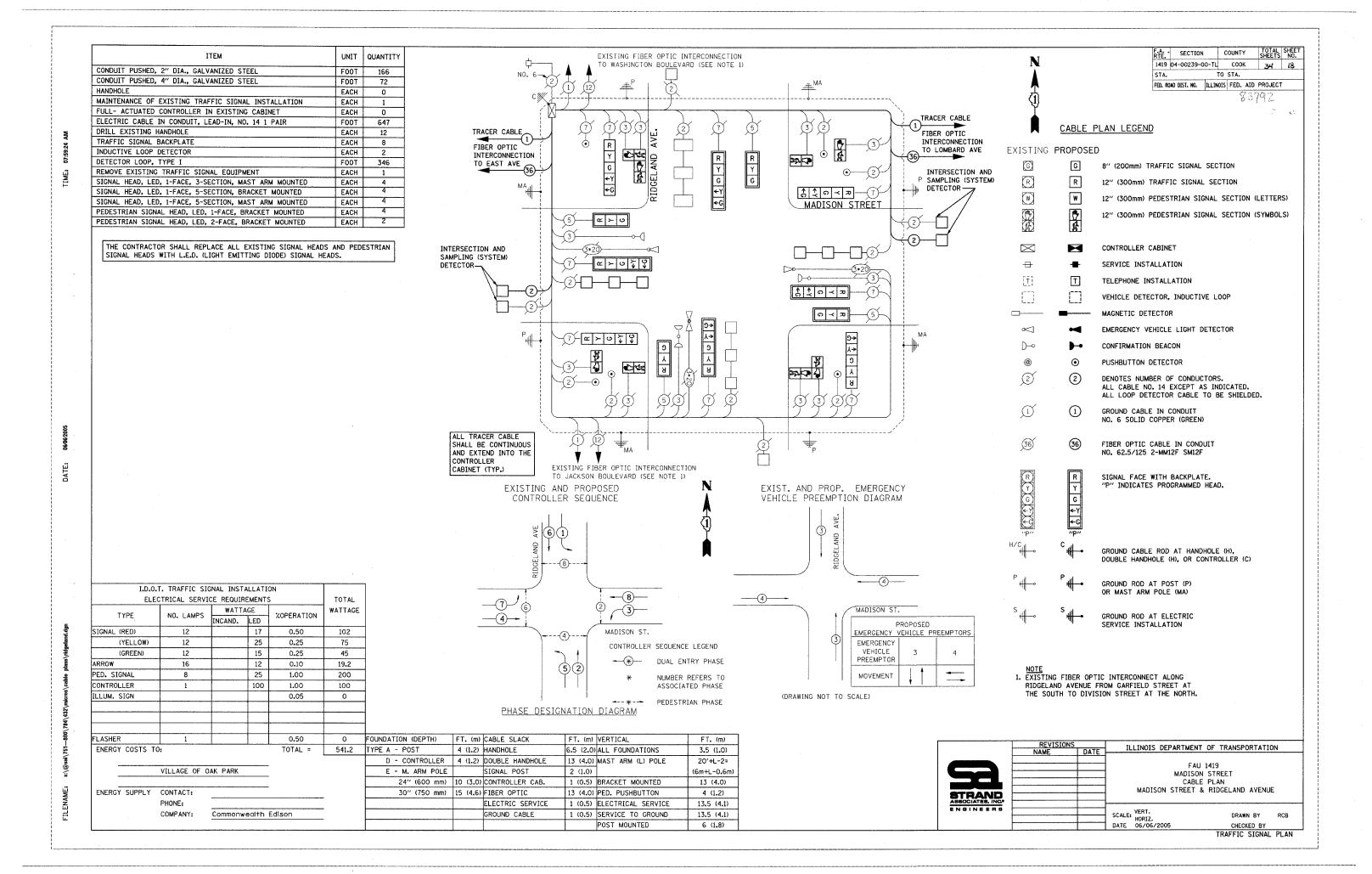
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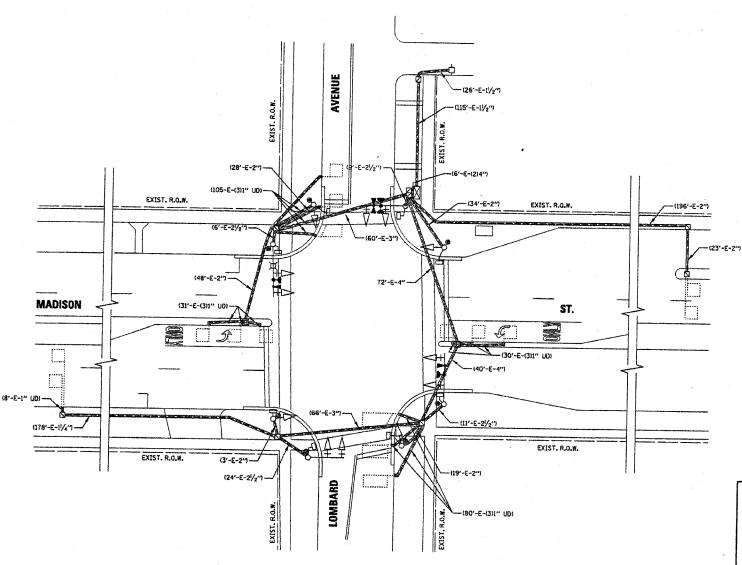




TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	- 8	583
SERVICE INSTALLATION	•	中
SIGNAL HEAD		- 1 >
SIGNAL HEAD WITH BACKPLATE	+*	+
SIGNAL HEAD, PEDESTRIAN	-1	0
SIGNAL POST		. 0
MAST ARM ASSEMBLY AND POLE, STEEL	•	<u> </u>
MAST ARM ASSEMBLY AND POLE, ALUMINUM	•	
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE	•)	0 其 −
UNIT DUCT	ប០	
HANDHOLE		
HEAVY DUTY HANDHOLE	m m	Œ
DOUBLE HANDHOLE		[2]
G.S. CONDUIT IN GROUND (CIG)		
PEDESTRIAN PUSHBUTTON DETECTOR	9	•
DETECTOR LOOP		П
CAST IRON JUNCTION BOX	CC	
EMERGENCY VEHICLE SYSTEM DETECTOR	-	≪
CONFIRMATION BEACON	-4	o-()
SIGNAL HEAD OPTICALLY PROGRAMMED	> "₽"	-(> ″P*
CONDUIT SPLICE		
WOOD POLE	. 8	⊗"E"
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		"E" ====
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET	₽3	™E "

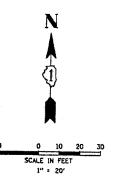
FOR INFORMATION ONLY



FOR INFORMATION ONLY

FED. A	DAD DIST. NO.	ILLINOIS	FED. AID	PROJECT	
STA.	STA.		STA.	34	19
	00-00037-0	0-TL	COOK	365-	250
RTE.	SECTION		COUNTY	TOTAL	SHEET NO.

OAK PARK 8379Z



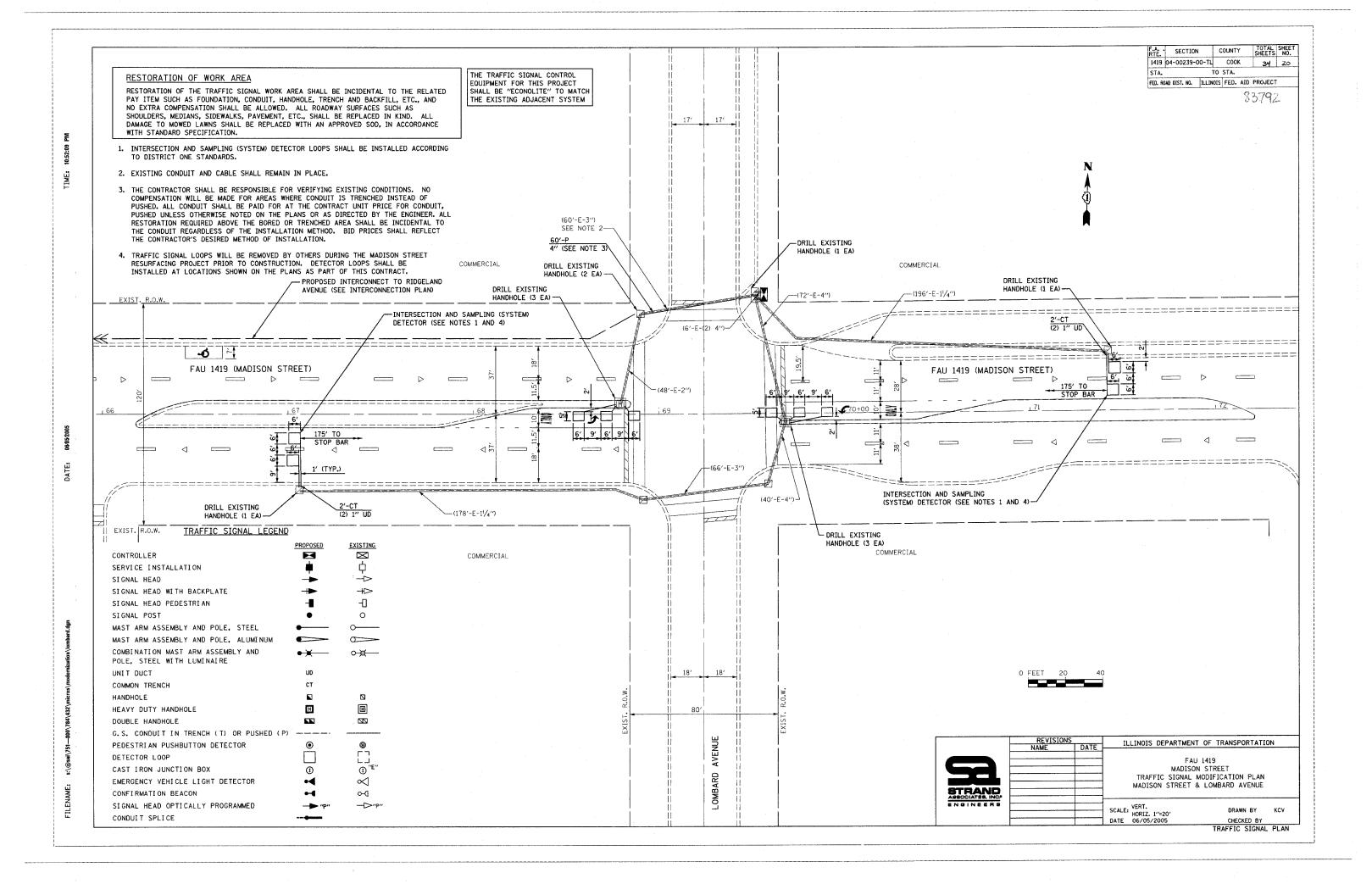
RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, COMDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL 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.

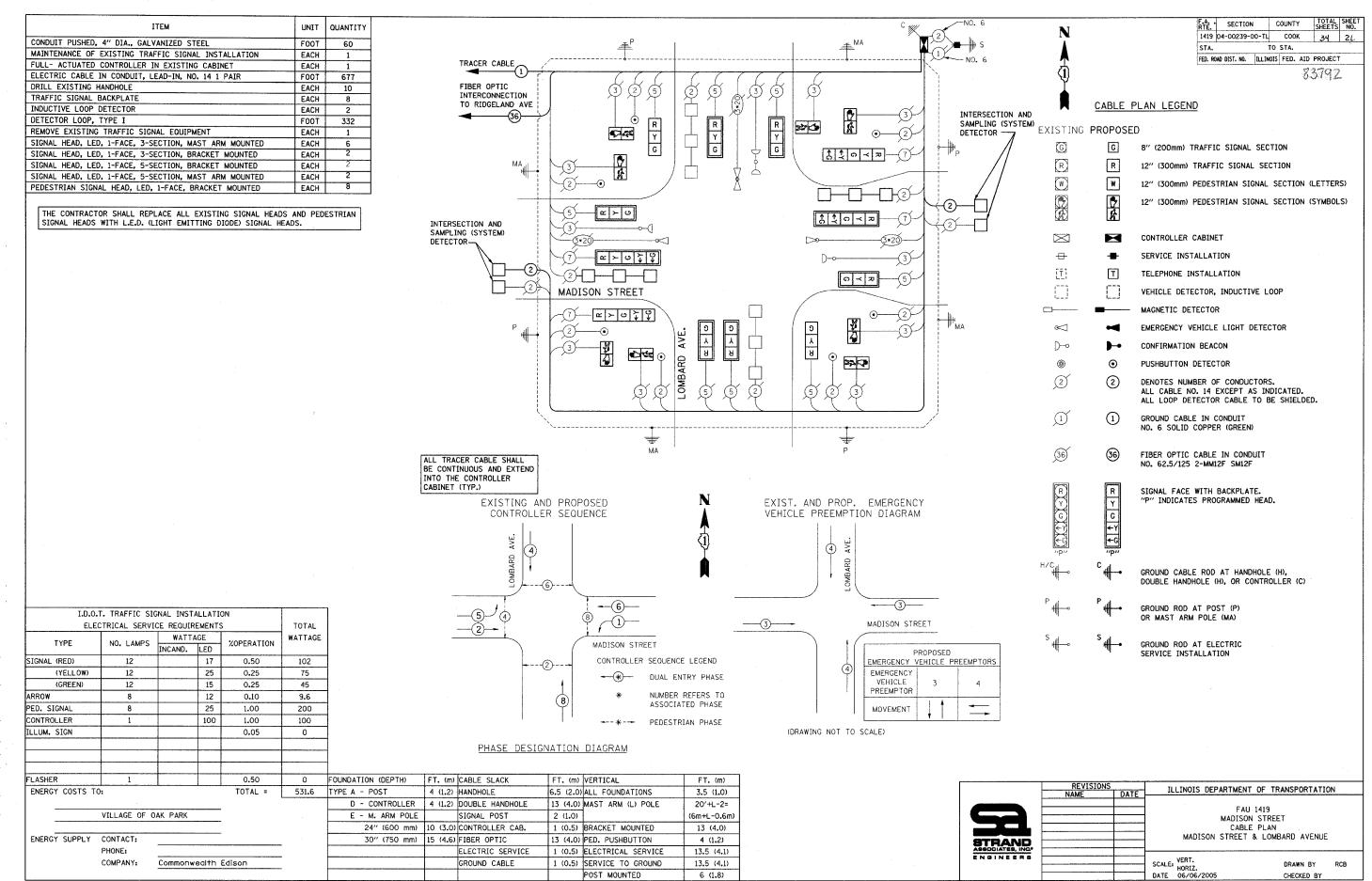
REVISIONS
NAME DATE
ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL
MODIFICATION PLAN
MADISON STREET AT LOMBARD AVENUE
OAK PARK, ILLINOIS

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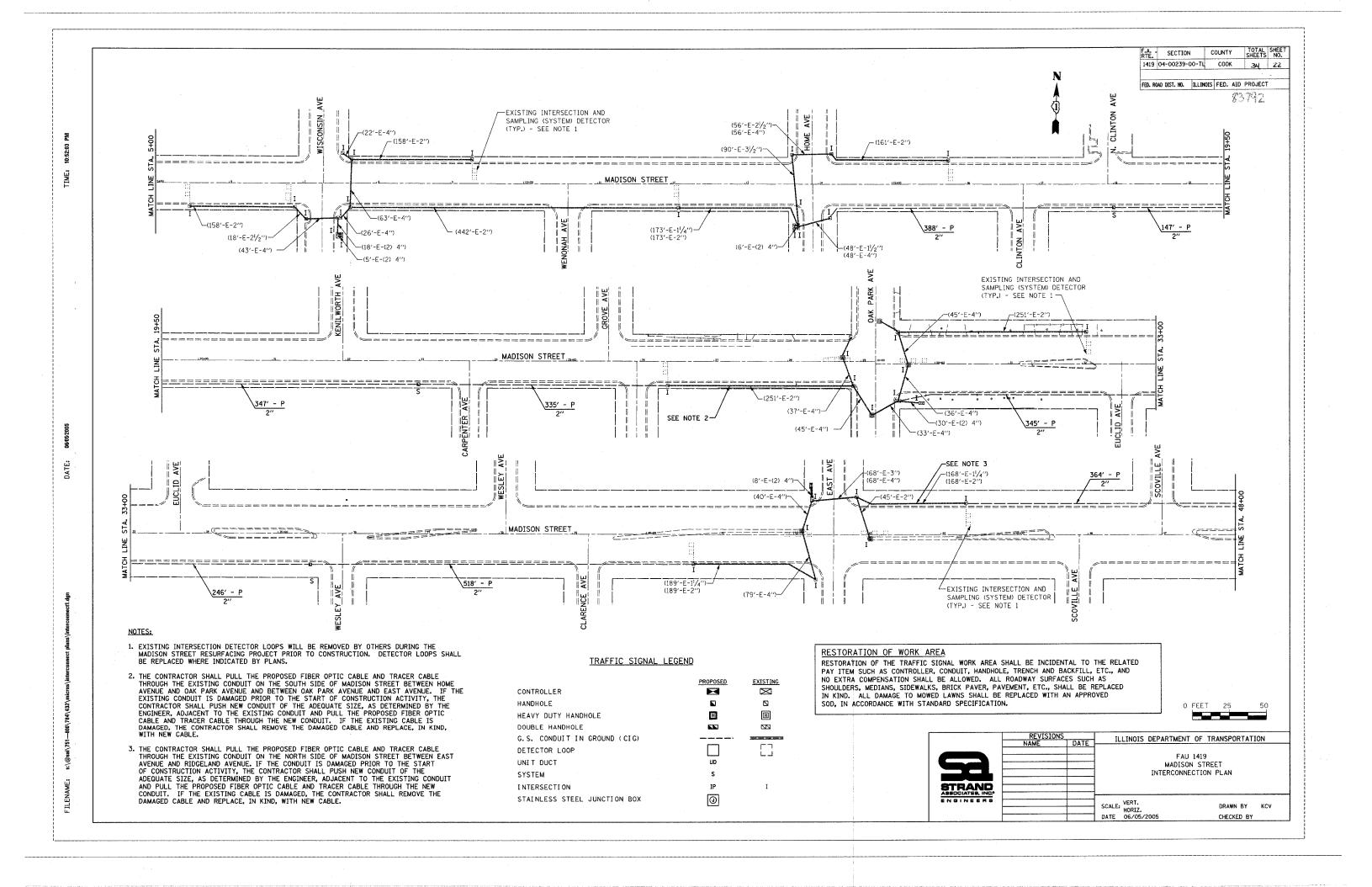
SCALE: 1" = 20'
DATE: 6-03-02

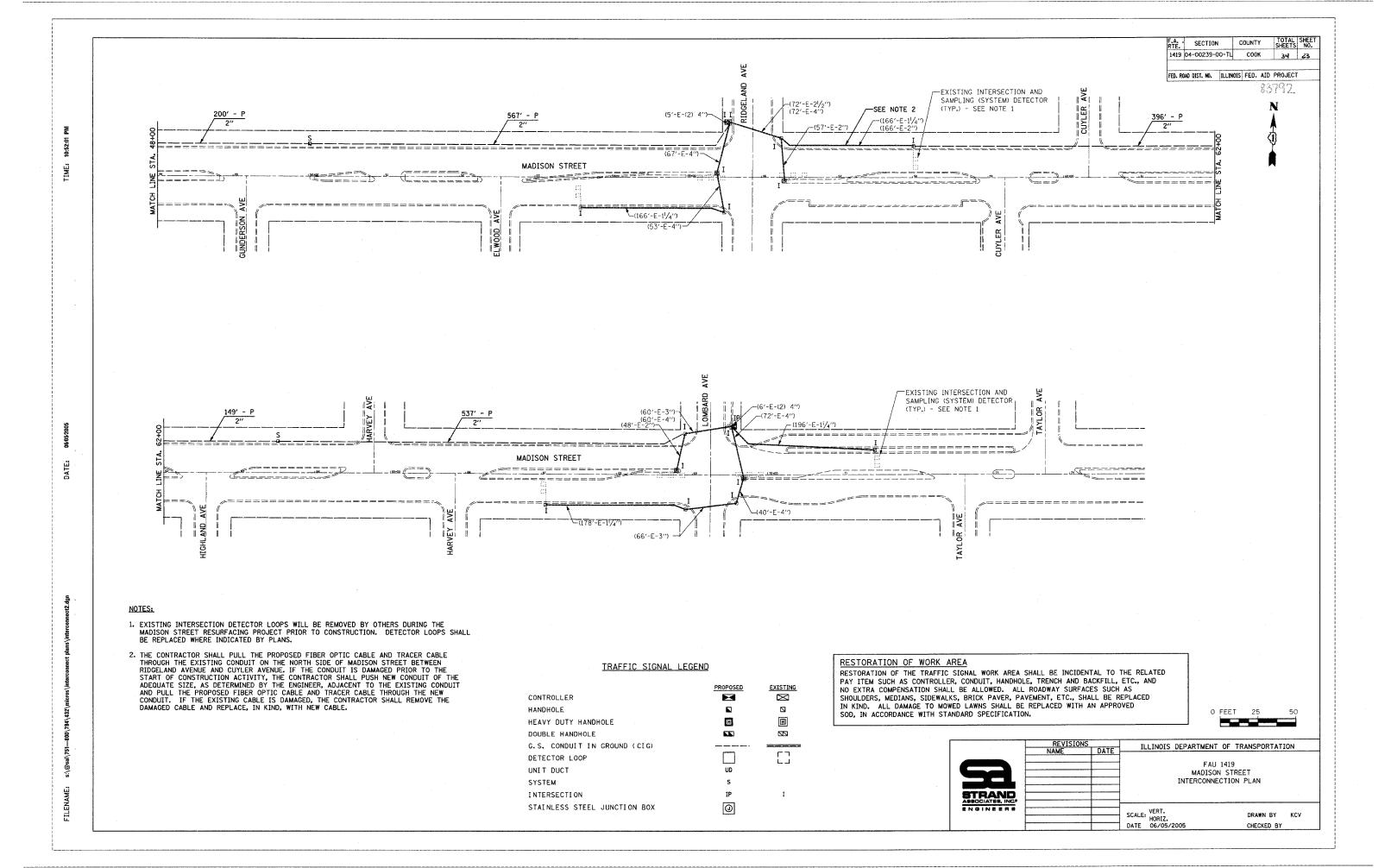
DRAWN BY: FPB DESIGNED BY: SJP CHECKED BY: GMZ

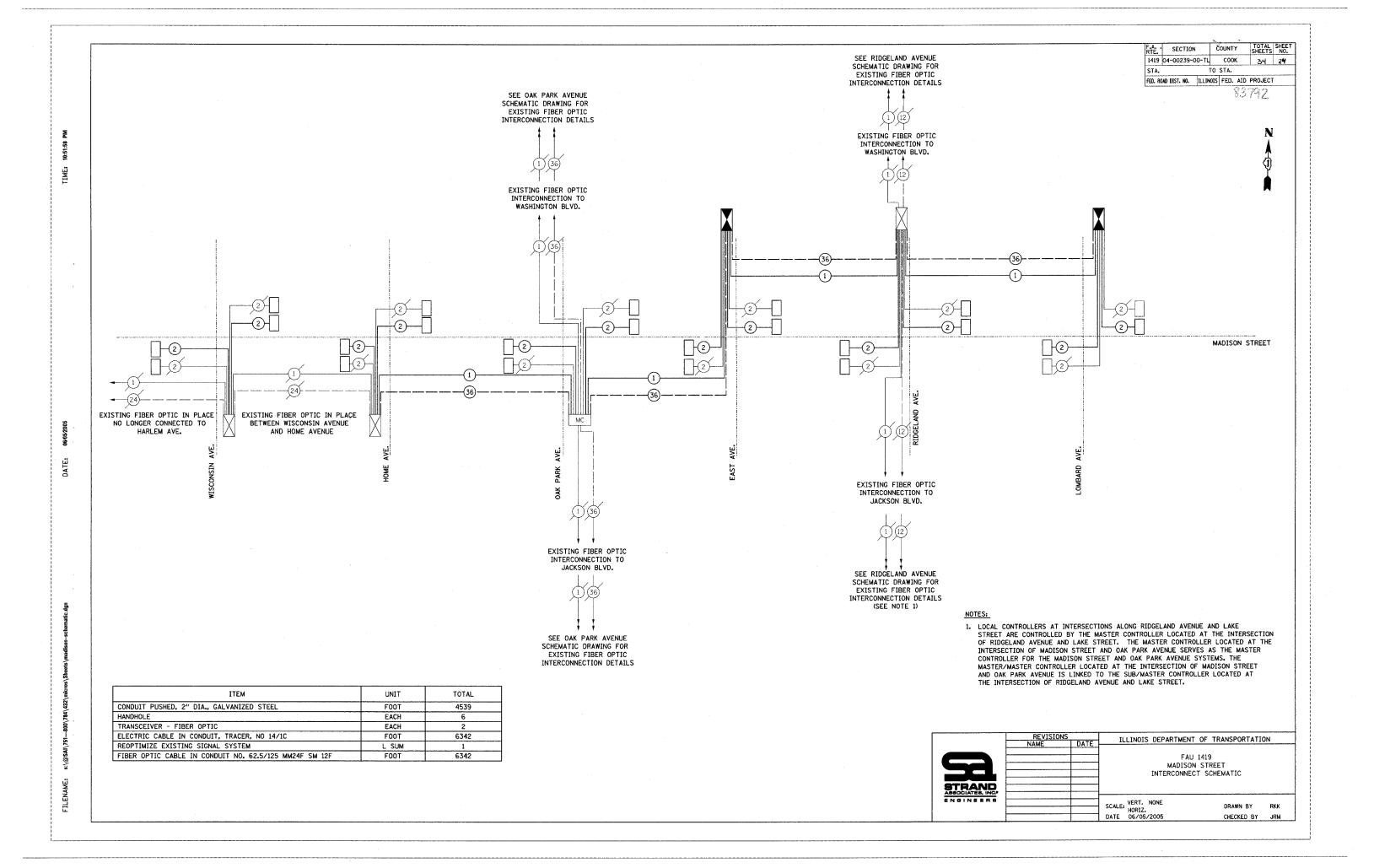


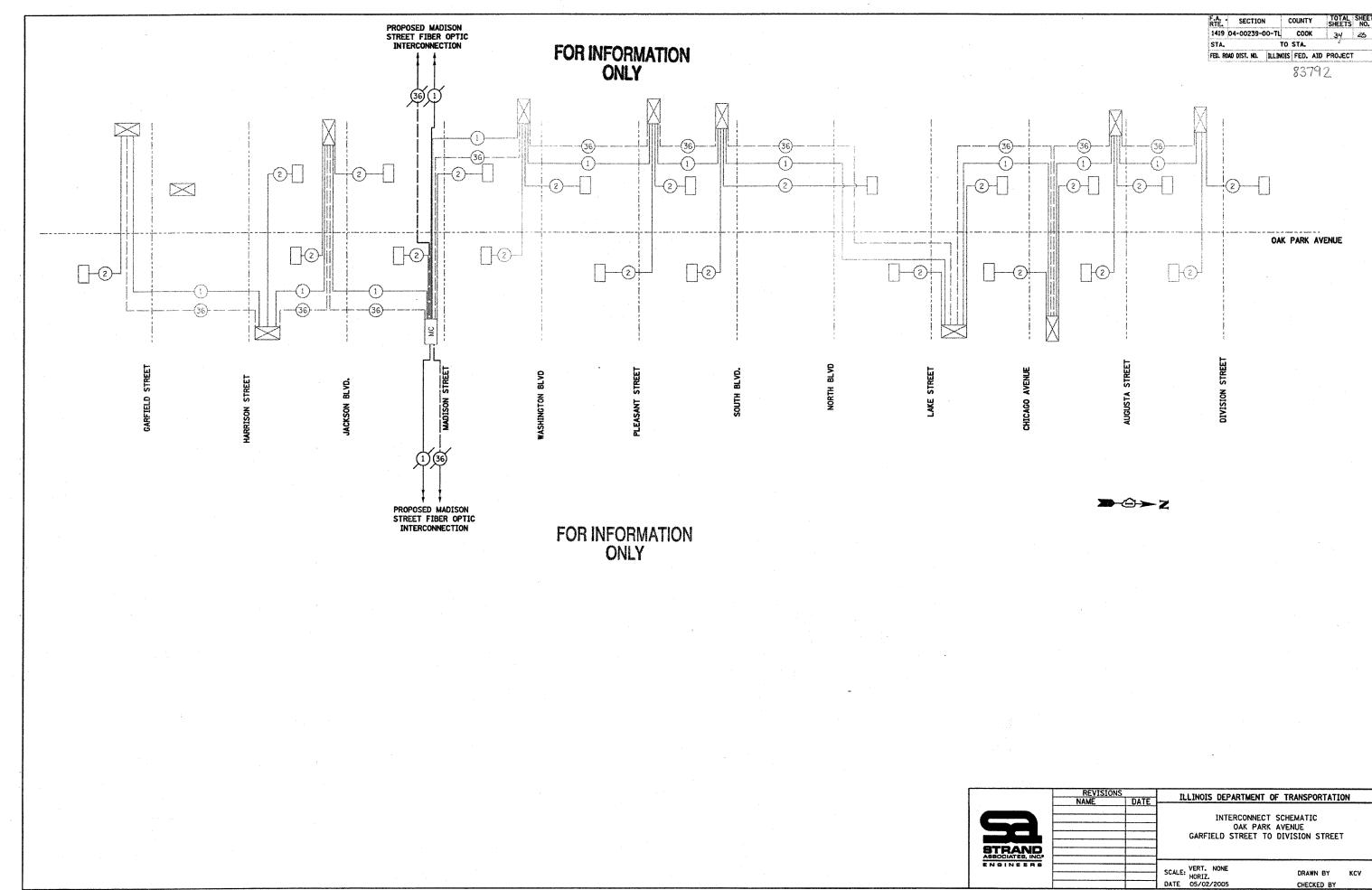


TRAFFIC SIGNAL PLAN







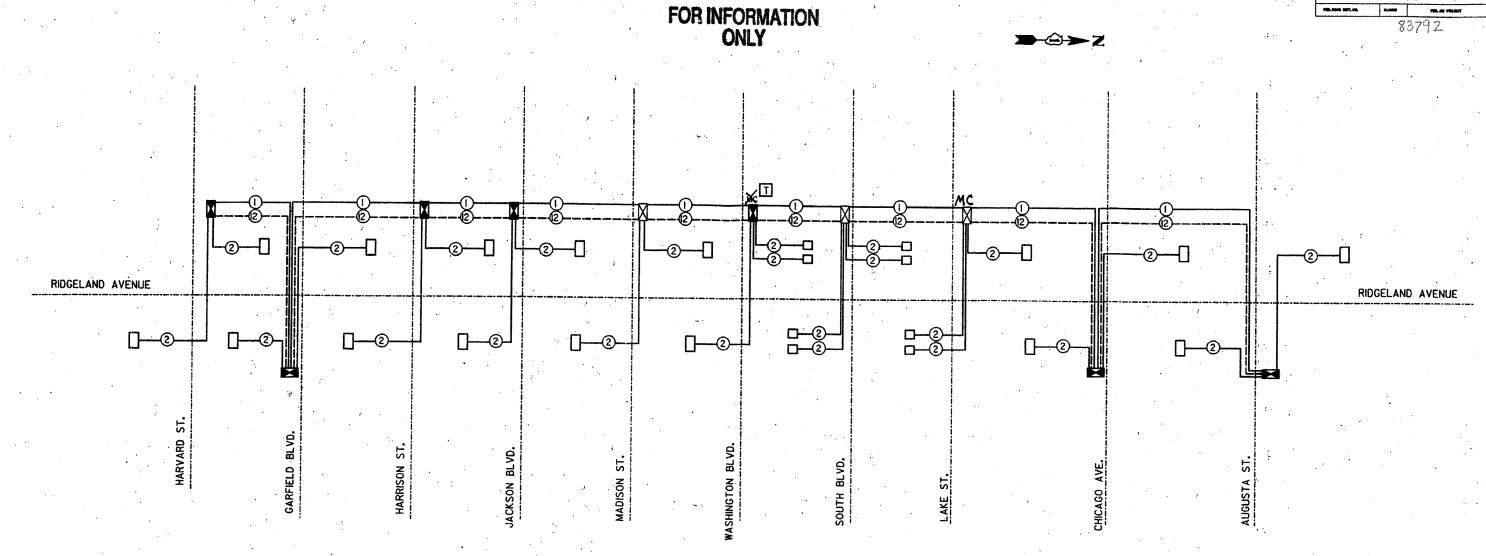


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| FAL | SECTION | COUNTY | TOTAL | SECTION | COUNTY | SECTION | SE TO STA. PER PAGE 0072.116.

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FOR INFORMATION ONLY

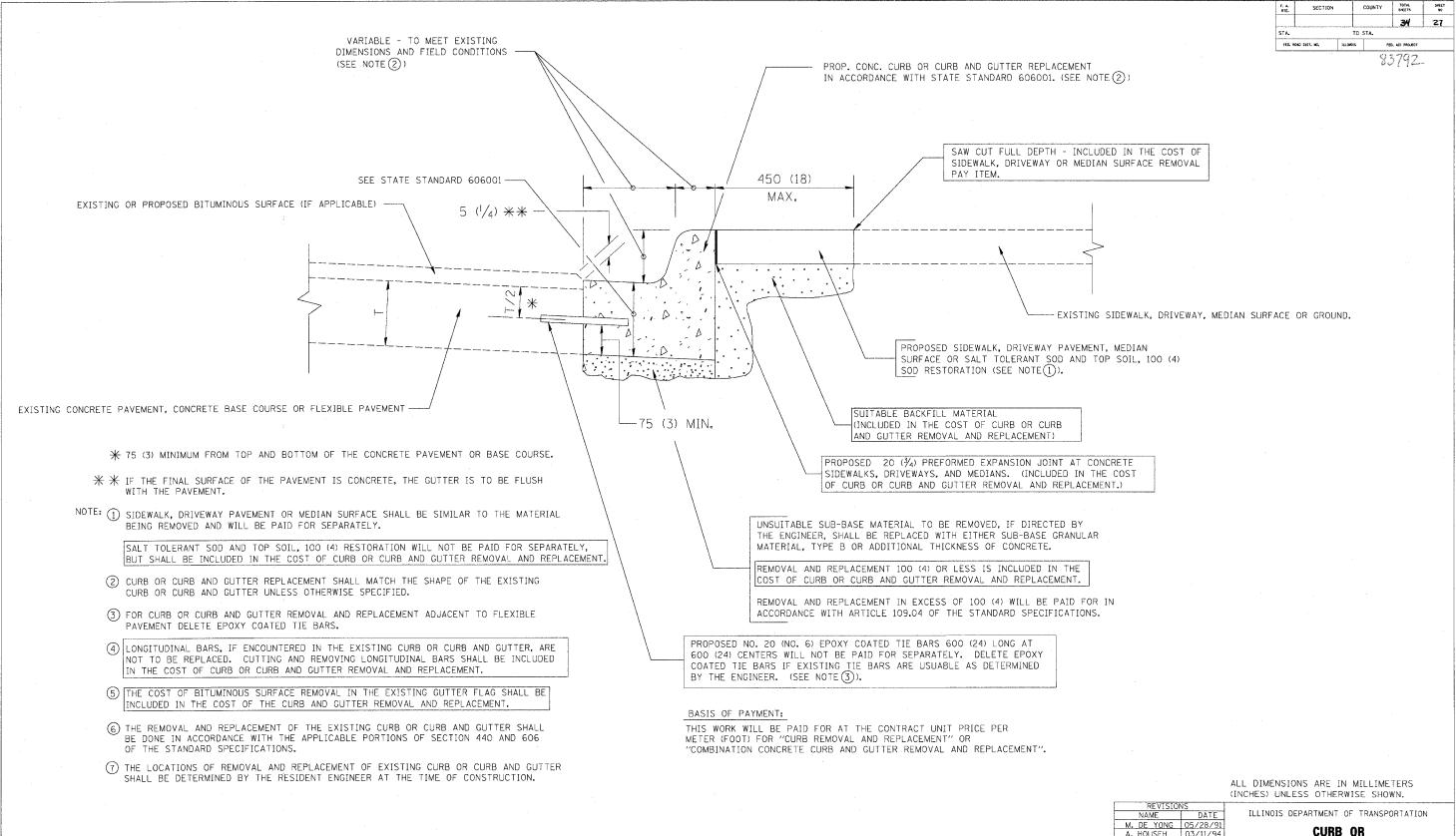
INTERCONNECT SCHEMATIC LEGEND

PROP.	
	CONTROLLER
	G.S. CONDUIT IN TRENCH OR PUSHED
	INTERSECTION AND SAMPLING (SYSTEM) DETECTORS
@	INTERCONNECT CABLE NO. 62.5/125 12F FIBER OPTIC CABLE
-2-	LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED
- 0-	TRACER CABLE NO. 10 1/C
MC	MASTER CONTROLLER
T	TELEPHONE CONNECTION
	-@ -@

NOTES:

- I.) INTERCONNECT SYSTEM CONDUITS, HANDHOLES AND LOOPS ARE SHOWN IN DETAIL IN SYSTEM INTERCONNECT PLAN.
- 2.) THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

TS-33 ILLINOIS DEPARTMENT OF TRANSPORTATION INTERCONNECT SCHEMATIC RIDGELAND AVENUE HARVARD ST. TO AUGUSTA ST. KAM ENGINEERING, INC. CONSULTING ENGINEERS 707A Davia Road, Suite 205 Elgin, Illinois 60123-1369 SCALE: NONE DRAWN BY: CSL DATE: 09-04-98 CHECKED BY: WSA



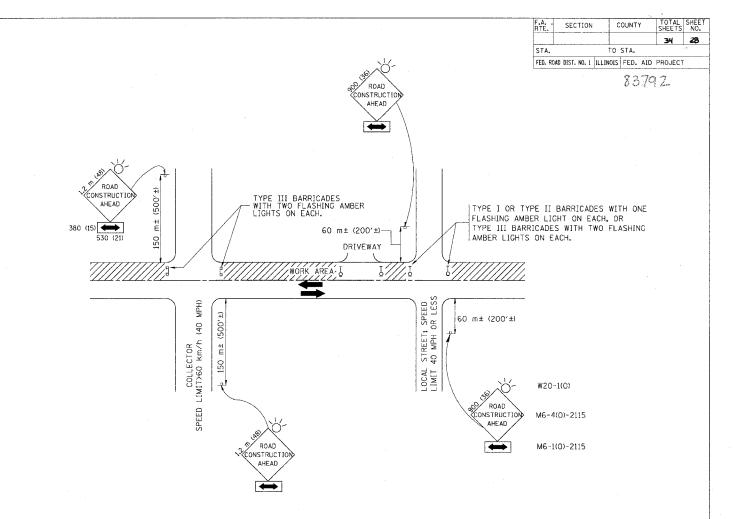
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

REVISIONS			
NAME	DATE		
M. DE YONG	05/28/91		
A. HOUSEH	03/11/94		
R. SHAH	02/24/95		
R. SHAH	03/02/95		
R. SHAH	08/19/96		
R. SHAH	09/12/96		
R. SHAH	09/19/96		
R, SHAH	10/03/96		
A. ABBAS	03/21/97		
14 001157	04 (00 (0)		

CURB AND GUTTER REMOVAL AND REPLACEMENT

SCALE: NONE M. GOMEZ 01/22/01 DATE 10/18/2002 DRAWN BY CHECKED BY BD600-06 (BD-24)

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

NOTES:

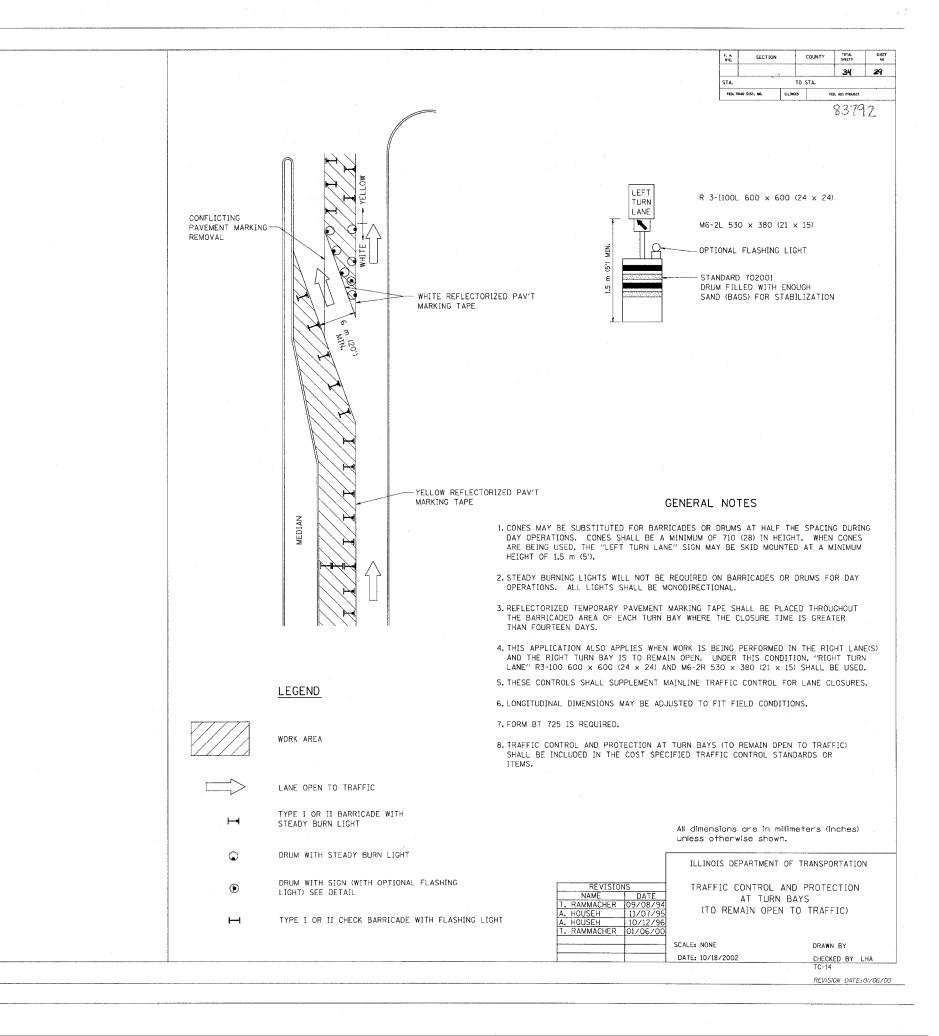
- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- O) ONE ROAD CONSTRUCTION AHEAD SIGN 1.2 m x 1.2 m (48x48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500') 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 (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-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.

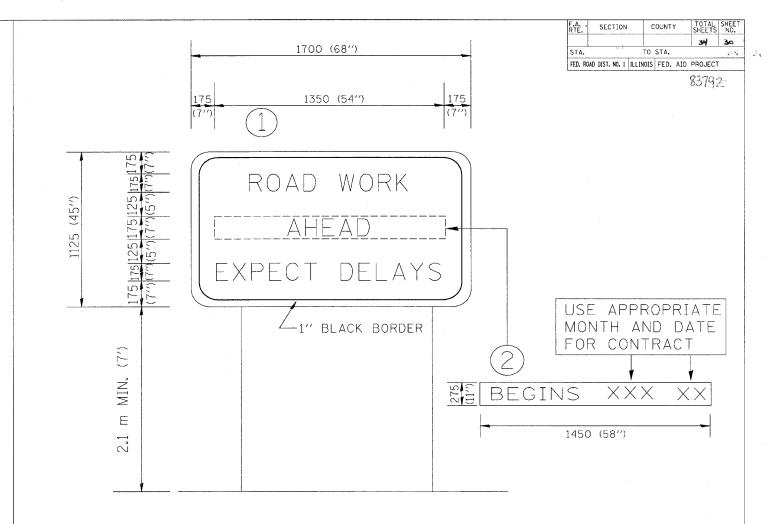
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION		
NAME	DATE	ILLINOIS DEI AIN	IMENT OF TRANSFORTATION	
LHA	6/89	TRAFFIC CON	TROL AND PROTECTION	
T. RAMMACHER	09/08/94	TRAFFIC CONTROL AND PROTECTION		
J. OBERLE	10/18/95	FOR		
A. HOUSEH	03/06/96	6105 00100	THE COURT OF THE STATE OF THE S	
A. HOUSEH	10/15/96	21DF KOAD2	INTERSECTIONS, AND	
T. RAMMACHER	01/06/00	DRIVEWAYS		
		DRIVEWALS		
		SCALE: VERT. HORIZ.	DRAWN BY	
		DATE 10/18/2002	CHECKED BY	
			TC-10	

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REVISION DATE:01/06/00

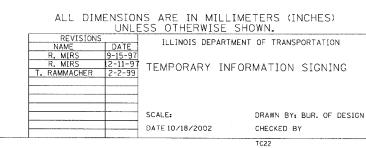


DATE-TIME *DGN-SPEC*



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 2.3 SQ. M. (25,70 SQ. FT.)



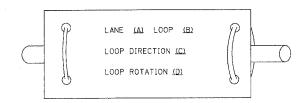
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REVISION DATE: 02/02/99

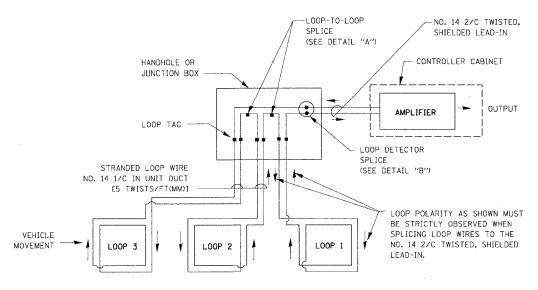
LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 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.

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.



F.A. SECTION COUNTY TOTAL SHEET SNO.

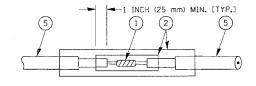
STA. TO STA.

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID | PROJECT

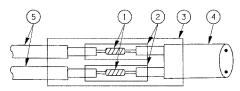
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DETECTOR LOOP WIRING SCHEMATIC

- 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

LOOP DETECTOR SPLICE

- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

NAME	DATE
CADD	5/30/00
ADD NOTE NO. 8	11/12/0
BUREAU OF TRAFFIC	1-01-02

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: VERT. NONE HORIZ. DATE 10/18/2002 DRAWN BY: RWP DESIGNED BY: DAD CHECKED BY: DAZ SHEET 1 OF 4

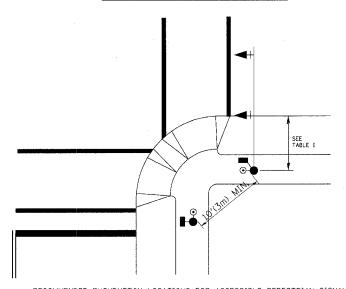
MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA, INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR CURB, SHOULDER, OR EDGE OF PAVEMENT (SEE PLANS) TYP.

5' (1.5m) MAX._

SEE TABLE

TRAFFIC SIGNAL MAST ARM AND POST

PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

F.A. SECTION COUNTY TOTAL SHEET NO. STA. TO STA. FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID | PROJECT

NOTES:

1. AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION. EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.

AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.

PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:

- A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
- B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
- C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
- E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m)
 ABOVE ADJACENT SIDEWALK
- PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.
- 3. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- 4. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

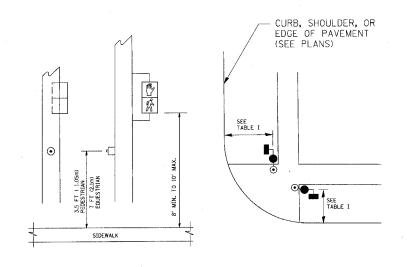


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN, DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

REVISIONS
NAME DATE
BUREAU OF TRAFFIC 1/01/02

DISTRICT 1

STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: HORIZ NONE DATE HORIZ NONE DATE 10/18/2002

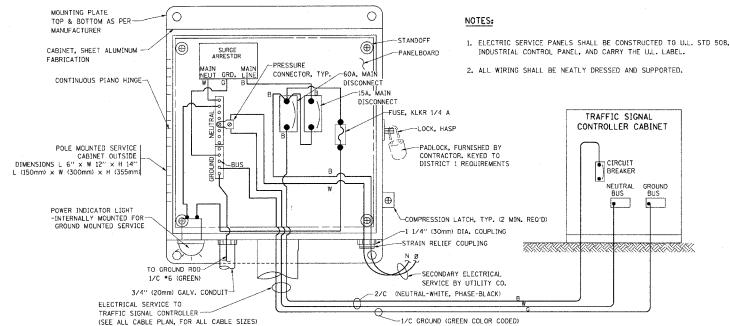
DATE 10/18/2002

SCALE: VERT. DRAWN BY: RWP DESIGNED BY: DAD CHECKED BY:

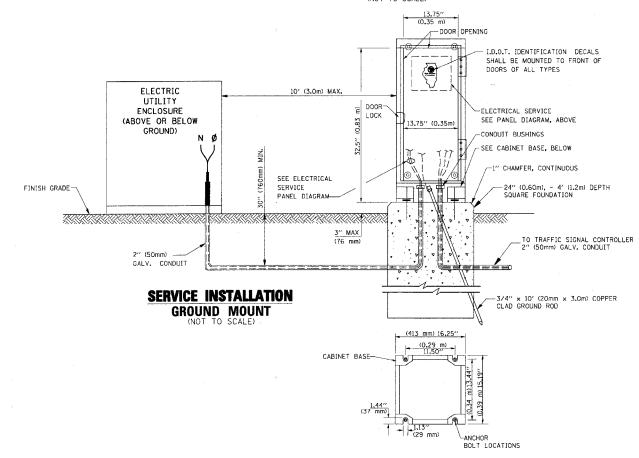
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REVISION DATE: 01/01/02

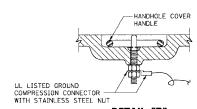


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN)

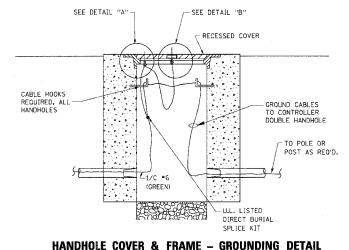


CABINET - BASE BOLT PATTERN (NOT TO SCALE

HANDHOLE COVER CAST CORNER FRAME WEB -UL LISTED GROUND COMPRESSION CONNECTOR ANTI-CORROSION COMPOUND -SHALL BE APPLIED ON ALL
BOLT/ CONNECTION ASSEMBLIES. DETAIL "A" -STAINLESS STEEL NUT AND 2 STAINLESS



DETAIL "B"



(NOT TO SCALE)

(2) 1/2" x 1 1/4" STAINLESS STEEL BOLT WITH SPLIT LOCK WASHER AND NYLON INSERT LOCKOUT WELDED TO FRAME AND TO COVER, (TYPICAL) HEAVY DUTY COPPER COMPRESSION GROUNDING TERMINAL. (TYPICAL) EXISTING HANDHOLE GROUNDING CABLE

EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)

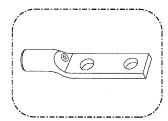
NOTES:

GROUNDING SYSTEM

SECTION COUNTY <u>અ</u>(33 TO STA FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

1. 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 PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE $3/4^{\prime\prime}$ DIA. \times 10'-0" (20mm \times 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.

- 2. 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.
- 3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- 4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



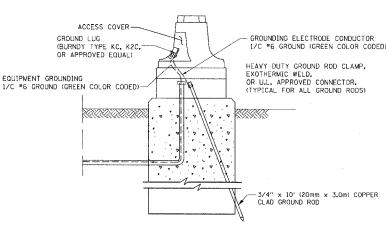
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EUAL)

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.



MAST ARM POLE / POST-GROUNDING DETAIL

NAME CADD CADD BUREAU OF TRAFFI

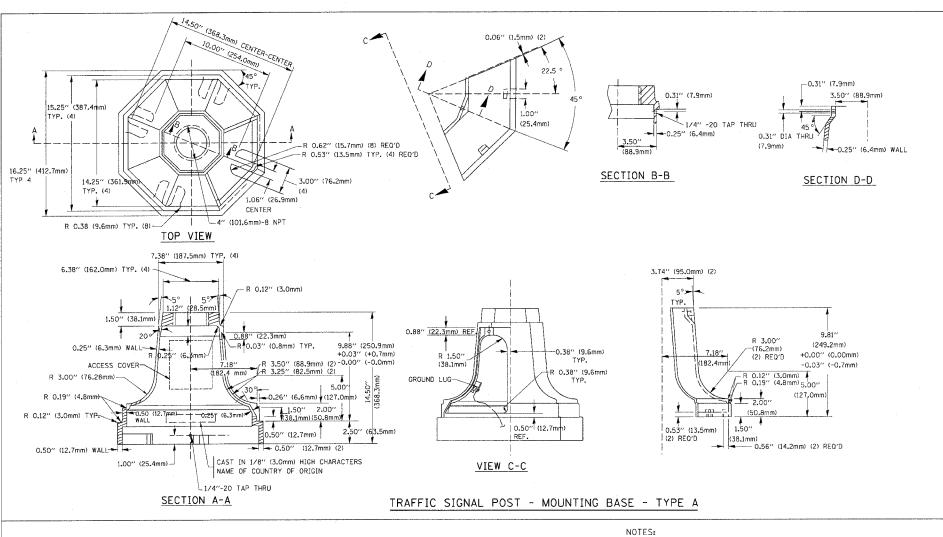
ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT 1 STANDARD TRAFFIC SIGNAL

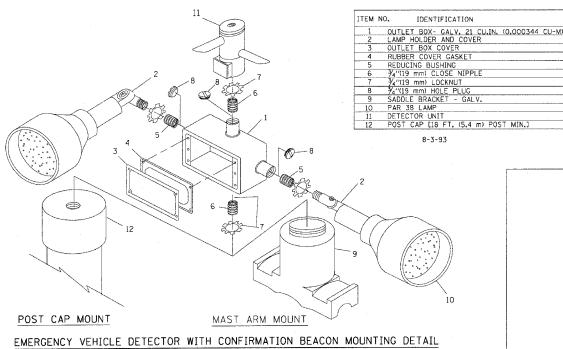
DESIGN DETAILS

SCALE: VERT. NONE DATE 10/18/2002

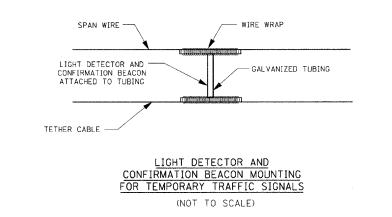
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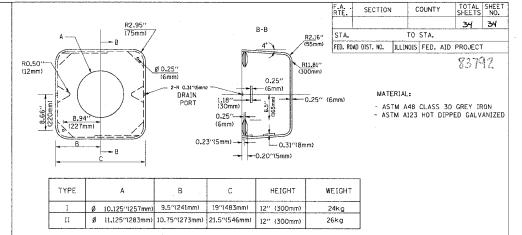
REVISION DATE: 01/01/02



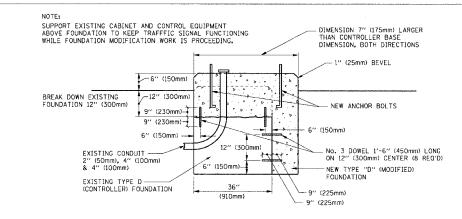


- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM *9 SHALL NOT BE REQUIRED. THE DETECTION 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.



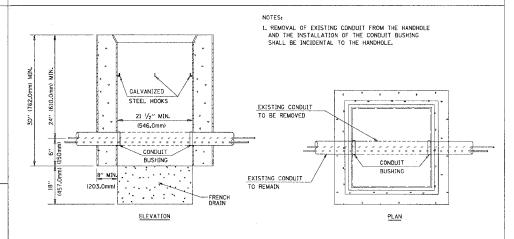


SHROUD DETAIL



MODIFY EXISTING TYPE "D" FOUNDATION

(NOT TO SCALE)



HANDHOLE TO INTERCEPT EXISTING CONDUIT

REVISIONS		
NAME	DATE	
BUREAU OF TRAFFIC	5/30/00	
BUREAU OF TRAFFIC	3/15/01	
BUREAU OF TRAFFIC	11/12/01	
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ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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