				AVENUE AT STREET	LEWIS AVENUE AT 10TH STREET	LEWIS AVENUE AT DUGDALE ROAD	LEWIS AVENUE AT BELVIDERE STREET	LEWIS AVENUE AT WASHINGTON STREET	LEWIS AVENUE AT BROOKSIDE AVENUE	LEWIS AVENUE AT GRAND AVENUE	LEWIS AVENUE AT RIDGELAND AVENUE	LEWIS AVENUE AT GLEN FLORA AVENUE	GLEN FLORA AVENUE AT BUTRICK STREET	LEWIS AVENUE AT HARDING AVENUE/ROGER EDWARDS AVENUE	LEWIS AVENUE AT WILLIAMSBURG DRIVE	LEWIS AVENUE AT SUNSET AVENUE	LEWIS AVENUE AT BALLENTINE STREET	LEWIS AVENUE AT YORK HOUSE ROAD	INTERCOI 14TH STR ROSECRAN (IL RTE
MARY OF QUANTITIES	UNIT	TOTAL	1000-2A	Y031-1F	1000-2A Y031-1F	1000-2A Y031-1F	1000-2A Y031-1F	1000-2A Y031-1F	1000-2A Y031-1F	1000-2A Y031-	CONSTRUC 1F 1000-2A Y031-1F	TION CODES	1000-2A Y031-1F	1000-2A Y031-1F	I000-2A Y031-1F	i000-2A Y031-1F	1000-2A Y031-1F	1000-2A Y031-1	F 1000-2A
20200100 EARTH EXCAVATION	CU YD SQ YD	160 2,000	20		15	40			15		7	5		15	5	10	8	20	2,000
21101615 TOPSOIL FURNISH AND PLACE, 4" 25200110 SODDING, SALT TOLERANT	SQYD	2,000					 												2,000
5200200 SUPPLEMENTAL WATERING .	UNIT	10									20	15		45	15	30	25	55	10
5101600 AGGREGATE BASE COURSE, TYPE B, 4" 2400200 PORTLAND CEMENT CONCRETE SIDEWALK 5"	SQ YD SQ FT	450 14,890	75 1,245		50 1,285	80 1,945			40 1,055		700	975		1,300	800	2,000	635	1,150	1,800
2400610 TEMPORARY SIDEWALK	SQ FT	1,000	4 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M														68		1,000
2400800 DETECTABLE WARNINGS 4000500 COMBINATION CURB AND GUTTER REMOVAL	SQ FT FOOT	1,176 1,785	96 200	-	132 195	144 245			160 80		108 125	96 165		108 210	72 100	96 185	80	96	
4000500 COMBINATION CURB AND GUTTER REMOVAL 4000600 SIDEWALK REMOVAL	SQFT	11,920	625		190	2,250			700		600	775		785	675	1,755	425	650	1,800
0300305 FRAMES AND LIDS TO BE ADJUSTED	EACH	39	2		4	3			8		7	3		3	2	2	2 80	- 3	
0603800 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 0605000 COMBINATION CONCRETE CURB AND GUTTER. TYPE B-6.24	FOOT	1,365 440	20 180		10 185	190 75			80		125	165		210	100	185	80	200	
7109100 MOBILIZATION	L.SUM	. 1	180		183	/3													
0102620 TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1																	
0102622 TRAFFIC CONTROL AND PROTECTION, STANDARD 701502 0102625 TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1 1					ļ										FF 1	1	
0102632 TRAFFIC CONTROL AND PROTECTION, STANDARD 701600	L SUM	1 1					<u> </u>												
0102635 TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1 1	- Constituted of the Constitute of the Constitut																
0102640 TRAFFIC CONTROL AND PROTECTION, STANDARD 701801 B000100 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	L SUM SQ FT	364			-					_							-	364	
3000600 THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	4,495	505		435	485			480		360	420		450	115	565	180	500	
3000650 THERMOPLASTIC PAVEMENT MARKING - LINE 24*	FOOT	1,000	150		50	130			85		50 100	120 465		100 200		140 820	45 90	130 450	
9300100 PAVEMENT MARKING REMOVAL 1000600 CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	SQ FT FOOT	3,660 14,980	300.0 18	-	325 5	510 55			400 19	5	18	97		26	5	149	93		14,490
1000700 CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	567	58		49	165			61	5	34	31	-	7	10	58	26	63	
1000900 CONDUIT IN TRENCH, 3 1/2" DIA., GALVANIZED STEEL 1001000 CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	798 370	52 10	ļI	60 10	163 110			88 12	5 10	28 10	48 10		61 146	44 27	76 15	83 10	90	
1001100 CONDUIT IN TRENCH, 4" DIA, GALVANIZED STEEL 1001100 CONDUIT IN TRENCH, 5" DIA, GALVANIZED STEEL	FOOT	90	10			110				5				85			AND THE PROPERTY OF THE PROPER		
1018500 CONDUIT PUSHED, 2" DIA, GALVANIZED STEEL	FOOT	13,474								203			1			-	16	+	13,255
1018800 CONDUIT PUSHED, 3 1/2" DIA, GALVANIZED STEEL 1018900 CONDUIT PUSHED, 4" DIA, GALVANIZED STEEL	FOOT FOOT	100 2,180	212	ļ	195	100 143			142	103	169	157		304	188	224	124	219	
1019900 CONDUIT PUSHED, 4" DIA, GALVANIZED STEEL 1019000 CONDUIT PUSHED, 5" DIA, GALVANIZED STEEL	FOOT	732	83		62	152			76		45	73		66		100		75	
1400100 HANDHOLE	EACH	69	2		2	6			2	2	2	2		5	1 2	2 2	2	2	40
1400300 DOUBLE HANDHOLE 1700215 ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 2-1/C NO. 10	EACH FOOT	9,405	835		785	3 1,045	1		830	1 1	2 691	760		1,528	580	904	584	863	+
1900200 TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	16,335	120		124	381			158	10	85	180		242	1	239	207	139	14,450
2103250 LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL 250 WATT	EACH	45	4		4	4			4		4	4	1	7	3	4	3	4	7
5000205 MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION (SPECIAL) 5700205 FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH EACH	10			1		1	1			1	1	. 1	1	1	1	1	1	
5700505 FULL-ACTUATED CONTROLLER IN EXISTING CABINET, SPECIAL	EACH	1 1					 					· ·	1						
100100 TRANSCENCE EDER-COTIC	EACH	12) †			T	The second secon		+		+	4-	4-	4_	4	4-	4-	4-	
301215 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	22,368 20,721	1,967		1,792	3,558 3,619	299		1,994 1,620		1,566	1,758 1,599	286 174	3,327 2.697	1,197 1,264	2,174 1,924	734 1,013	2,015 1,717	
7301225 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C 7301245 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	18,824	779		1,344	4,839	299		1,436		1,789	708		4,120	929	852	1,223	805	
7301255 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	7,819	1,412		675				675			1,238			604	1,550	233	1,432	
7301805 ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	831	40		27	77			41		39	119		48	27	188	131	94	***************************************
7701140 STEEL MAST ARM ASSEMBLY AND POLE 20 FT. (SPECIAL) 7704050 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT. (SPECIAL)	EACH EACH	5		***************************************	-				2			1 1					2		
770 4060 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT, (SPECIAL)	EACH	3				1								2					
7704070 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT. (SPECIAL) 7704080 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT. (SPECIAL)	EACH EACH	8	1 1	ļ	3	1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					2	2	1		3	Stockholments Connections and Edition
7704080 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT, (SPECIAL) 7704090 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT, (SPECIAL)	EACH	. 9	1		1				1 1		3	1				1		. 1	
7704100 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT, (SPECIAL)	EACH	, 6	1	1		1					***************************************	2				2			
7704110 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT, (SPECIAL) 7704120 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT, (SPECIAL)	EACH EACH	3	<u> </u>								1			1	1	1.	1		
7704120 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT, (SPECIAL) 7704130 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT, (SPECIAL)	EACH	1	71-yan - 1840 - 1840 - 1840 - 1840 - 1840 - 1840 - 1840 - 1840 - 1840 - 1840 - 1840 - 1840 - 1840 - 1840 - 1840				<u> </u>	The same of the sa						1					
7800100 CONCRETE FOUNDATION, TYPE A	FOOT	148	16		16	32			16		8	16		4	4	16	4	16	
7800150 CONCRETE FOUNDATION, TYPE C	FOOT	44	4		4	4			4		4	4	-	4	4	4	4	4	
7800200 CONCRETE FOUNDATION, TYPE D 7800400 CONCRETE FOUNDATION, TYPE E, 30-INCH DIAMETER	FOOT	15		-		15	 	 											
7800415 CONCRETE FOUNDATION, TYPE E, 36-INCH DIAMETER	FOOT	675	60		60	60			60		60	60		105	45	60	45	60	
7900200 DRILL EXISTING HANDHOLE 8030020 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH EACH	3 70	4	ļ	6	11	ļ	<u> </u>	6		8	4		14	4	4	5	4	3
803/0020 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, WAS TARMINOUNTED 803/0050 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	23		† <u> </u>	2	5			2		4			7	1		2		
030100 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	23	4		2				2			4			2 2	4 4	1	4 4	
8030110 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED 8030210 SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH EACH	23	4		2	3	-		2	+		4		1		+ +	+ '	-	
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	63	8		8	9	2				4	8		4	2	8	2	8	
102747 PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	15					3		4		2			3	2		1	-	
\$26269 PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER 1200210 TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINIUM	EACH EACH	92	8		8	1 10			8		8	8	 	14	6	8	6	8	
700200 LIGHT DETECTOR	EACH	23	2		2	3			2		2	2		2	2	2	2	2	
0700300 LIGHT DETECTOR AMPLIFIER 0800100 PEDESTRIAN PUSH-BUTTON	EACH EACH	93	1 8		1 8	1 12	5		1 8		1 8	1 8	<u> </u>	1 10	1 6	8	1 4	8	
1800100 PEDESTRIAN PUSH-BUTTON 1000100 TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH EACH	93	1		1	12	" -	<u> </u>	1	1	1	1 1		1 1	1	1 1	<u> </u>	1	
9502200 MODIFY EXISTING CONTROLLER	EACH	2					1 1	1											
1502300 REMOVE ELECTRIC CABLE FROM CONDUIT 1502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	FOOT EACH	244 14	1		1	1	1	-	1			1	1	1	1	1		244	
1502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT 1502380 REMOVE EXISTING HANDHOLE	EACH EACH	14	8		6	7	1		4		4	<u> </u>		12	5	10	6	7	
0502385 REMOVE EXISTING CONCRETE FOUNDATION	EACH	88	9		9	11			9		7			12	6	11	6	8	
322925 ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1C 322929 CAMERA MOUNTING ASSEMBLY	FOOT EACH	30,679	+	21		1	1									-		***	30,679
325462 MEDIA CONVERTER .	EACH	3		1												3			
700405 ENGINEER'S FIELD OFFICE, TYPE A (MODIFIED)	CAL MO	15												1	4	1 2	1	1	
0050015 SERVICE INSTALLATION-POLE MOUNT VOS2 46 FIBER OPTIC CABLE IN CONDUIT, 24 SINGLEMODE	FOOT	12 45,179	1 1		1	1 1	-		1		1	1		1	1 1	2	1	1	45,179
1730027 ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	6,362	517		572	980			504		490	499		- 739	317	726	405	613	
3730250 ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	6,484	470		549	934	299		412		386	477	174	700	554	530	564	435	
003661 ELECTRIC CABLE IN CONDUIT, COASIAL 2.5.601 ELECTRIC CABLE IN CONDUIT COMMUNICATION NO. 18.3C	FOOT	2,606	195 835		292 785	169 1,428	299	 	133 830	+	157 691	196 760	174	188	255 580	904	189 584	135 863	
ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 18, 3C MDEO DETECTION SYSTEM COMPLETE INTERSECTION	EACH	11	1		1	1,420			1		1	1		1	1	1	1	1	
X005¶37 LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	47	4		4	4			4		4	4	2	7	3	4	3	4	
X005928 TRAFFIC SIGNAL POST, 10 FOOT (SPECIAL) X005929 TRAFFIC SIGNAL POST, 14 FOOT (SPECIAL)	EACH EACH	1 13			2	1 6	 	 	2		2			1	į.	-	-		
	LAUR	13	-			<u> </u>	1	I						<u> </u>		1			GHA
Revised 1-4-10	SNED -	IDD		REVISED	0/45/0	2 (LCDOT) T	h4					STRANGE OF	F QUANTITI	EC AND OF	NEDAL NOT	EQ IF	A.P. ^==	ON.	
	WN -			REVISED		a (IDOT)	1// 1 -1-	. ^	L.,			DUININAKY C	r QUANIIII	ES AND GE	NEDAL NO!		A.P. SECT		COUNTY
	VN -			REVISED		O (LCDOT)	Lak Division	e count	ιy		1					27	730 08-00259		LAKE
		ט וט		INCAINGE	- 10/19/	>0 (E0001)	7 N Divisio	on of Trans	vă artatian		L	ONE SHEET	NO. 2 OF 86 SHE	ETS STA.				1 0	CONTRACT #:

			1	AVENUE AT STREET	LEWIS AVENUE AT 10TH STREET		LEWIS AVENUE AT DUGDALE ROAD	LEWIS AVEI AT BELVIDERE ST	1	LEWIS AVENUE AT SHINGTON STRE	LEWIS AVENUE AT BROOKSIDE AVENUE	LEWIS AVENUE AT GRAND AVENUE	LEWIS AVENUE AT RIDGELAND AVEN		WIS AVENUE AT FLORA AVENUE	GLEN FLORA A AT BUTRICK ST	1	LEWIS AVENUE AT HARDING AVENUE/ROGE EDWARDS AVENUE	LEWIS AVENUE AT WILLIAMSBURG DRI	LEWIS AY AT 'E SUNSET A		LEWIS AVENUE AT BALLENTINE STREET	LEWIS A YORK HO	т	INTERCONNECT 14TH STREET TO ROSECRANS ROJ (IL RTE 173)
SUMMARY OF QUANTITIES			 	CONSTRUCTION CODES																					
NO. CODE NO. ITEM	UNIT	TOTAL	I000-2A	Y031-1F	1000-2A Y031	-1F 100	0-2A Y031-	1F 1000-2A Y	031-1F 100	10-2A Y031-1	F 1000-2A Y031-1F	1000-2A Y031-1F	1000-2A Y031	-1F 1000-	2A Y031-1F	1000-2A	/031-1F	I000-2A Y031-1F	i000-2A Y031-	F 1000-2A	Y031-1F	1000-2A Y031-1F	1000-2A	Y031-1F	1000-2A Y03
96. XX005931 TRAFFIC SIGNAL POST, 16 FOOT (SPECIAL)	EACH	22	4		2				***************************************		2			4					1	4		1	4		.
97. XX005932 TRAFFIC SIGNAL POST, 18 FOOT (SPECIAL)	EACH	1			······································		1																		
98. XX005940 REMOTE-CONTROLLED VIDEO SYSTEM	EACH	13	1		1		1	1			1		1	1		1		1	1	1		1	1 1		
99. XX006390 VIDEO COMMUNICATIONS SYSTEMAND CABINET	EACH	1				*******														1					
100. X8620020 UNINTERRUPTIBLE POWER SUPPLY	EACH	11	1		1		1			1	1		1	1				1	1 1	1		1	1 1		
101. XX006938 OPTIMIZE TRAFFIC SIGNAL SYSTEM (SPECIAL)	EACH	1																							1
102. XX007017 TERMINATE FIBER IN CABINET	EACH	36																							36
103. Z0076600 TRAINEES	HOUR	500																							
104. JXX00825) SPLICE FIBER IN CABINET	EACH	12																							12 .
105. XX06%2.5.2 QUAD ENCODER 106. XX06%2.5.3 VIDEO ENCODER 107. XX06%2.5.4 LAYER III FIBER OPTIC TRANSCEIVER MODULE, SFP TYPE, LONG DISTANCE	EACH	1														1 1									·
106. XXX009253 VIDEO ENCODER	EACH	14	1		1		1	1			1		1	1		1		1	1 1	1		1	1		1 1
107. XXXXXXX LAYER III FIBER OPTIC TRANSCEIVER MODULE, SFP TYPE, LONG DISTANCE	EACH	3																		2					1
108. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	EACH	1																							
109. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	EACH	7		2000		75×		2/	(8)				1	_						<u> </u>				1	<u>'</u>
110. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	EACH	(/3)							Ω						\perp \cup		ران	للغ	\downarrow α	4		الرايا ا	<u> </u>	(1/	C
(111. XX007018 LAYER III (NETWORK) SWITCH	EACH	717	1	1								1	1			1			1						

A THE LAYER III FIBER OPTIC TRANSCEIVER MODULE, GBIC TYPE, LONG DISTANCE SHALL BE INSTALLED BY A LAKE COUNTY DIVISION OF TRANSPORTATION CONSULTANT IN THE ISTHA DIVISION OF TRANSPORTATION CONSULTANT IN THE ISTHA BUILDING (MA) LOCATED AT 1-94 (TRI-STATE TOLLWAY) AND ILL RIE 132 (GRAND AVE), BUT PROVIDED BY THE CONTRACTOR FOR THIS PROJECT. THE CONTRACTOR SHALL COORDINATE WITH LAKE COUNTY DIVISION OF TRANSPORTATION (847) 377-7400 AND ILLINOIS STATE HIGHWAY AUTHORITY (830) 241-6800.

* SPECIALTY ITEMS A YOSO

Revised 1-4-10

SPECIAL CONDITIONS FOR CONSTRUCTION WITHIN A LAKE COUNTY HIGHWAY RIGHT-OF-WAY

Prior to starting construction, the Meintenance Section, 847-362-3960, and the Permit Section, 847-362-3950, shall be called and given the construction start date.

The construction and restoration methods and procedures, materials used and construction signing and traffic control shall, when applicable, conform or meet the standards and requirements set forth in the current "Manual on Uniform Traffic Control Devices for Street and Highways," "Standard Specifications for Road and Bridge Construction", "Standard Specification for Traffic Control Items", and the "Highway Standards" manual as published or adopted by the Illinois Department of Transportation.

Field Changes for Watermain or Sewer Location

No changes to the depth or location of the watermain or sewer as shown on these plans due to unforeseen field conditions or conflicts can be made unless prior approval has been obtained from the Permit Section of the Lake County Division of Transportation.

Additions, Extensions or Deletions for the Watermain or Sewer

No additions, extensions or deletions can be made to the watermain or sewer as shown on these plans unless prior approval has been obtained from the Permit Section of the Lake County Division of Transportation.

Measures shall be taken to prevent or protect the public from hazards caused by the construction operations.

Parking of Vehicles, Equipment and Storage of Materials

struction worker's vehicles and construction equipment shall be parked in areas outside of the County Highway t-of-way or in areas where there will be no interference with the narmal use of the highway or vehicle slight distance, struction materials shall be located at least 12 feet from a through traffic lane or outside of the County Highway

Maintaining Existing Traffic Control Devices

Existing traffic control devices that are removed shall be re—erected as soon as possible. Damaged or lost traffic control signs shall be reported to the Sign Shop 847—362—3962 of the Lake County Division of Transportation for replacement.

Regulatory and warning traffic signs shall be kept in view of the highway traffic.

Disturbed highway drainage facilities shall be re-established at the close of each workday. Occupants of adjacent properties having access to the County Highway shall be notified prior to being blacked and suitable arrangements made with the occupants. Adjacent property access shall be re-established as soon as possible.

Care shall be taken not the break, crack or damage the highway pavement with equipment operating on it. Also, any dirt of debris tracked onto the highway pavement shall be removed. Equipment with grazzer pads, cleats or studs are not permitted to operate on the highway pavement.

If, due to construction operations, the highway povement becomes damaged or undermined, all construction work in that area shall be stopped and the highway povement repaired as directed by the Loke County Division of Transportation. Alternate construction measures shall then be used to prevent further highway povement damage.

Excavations, Trenches and Bore Pits

Excavated material shall, when practical, be piled on the near traffic side of the excavation, trench or bore pit. Open excavations, trenches or bore pits remaining after working hours shall not exceed 50 feet in length and shall be properly protected (fencing, covered, etc.) and marked (Type 1 or II borricadoes). If borricadoes are used in series, only steady burning lights shall be used. Bore pits shall be located no closer than 10 feet to the highway powement, back of curb or gutter, or shoulder break line, whichever is further. If cosing pipes are used, the voids in the casing pipe shall be filled and/or the ends seoled so there will be no silitation into the casing pipe.

Marripoles, Valves, Valve Vaults and Appurtenances

The top of the frame and lid or cover of a manhole, valve, or valve vault shall be flush and contoured to the surrounding ground. If this is not possible due to an excessive slope, the surrounding ground shall be regraded or the frame and lid or cover participly buried to provide for a gradual transition slope so the area can be safely moved and no hazard to the public will result. The top of the frame and lid or cover that is located within the grovel shoulder shall have a aspholium of the provided around the frame or cover as directed by the Lake County Division of Transportation. Any frame and lid or cover located in a poved area shall be contoured and $\frac{1}{2}$ inch below the surface of the surrounding povement. The top of frame and lid or cover shall not be located within the area of 27.5 feet to 30.5 feet from the highway povement

Surface appurtenances that extend above the surrounding ground surface shall be located within two feet of the County Highway right-of-way.

Tile Lines and Storm Sewers

Existing tile lines and storm sewers that are encountered during construction operations shall be replaced if broken with like size and kind of material. Tile line and storm sewer crossings of the excavation shall be bridged with rigid materials such as wood or steel. The location and depth of any encountered tile lines and storm sewers shall be recorded and a copy given to the Lake County Division of Transportation.

SPECIAL CONDITIONS FOR CONSTRUCTION WITHIN A LAKE COUNTY HIGHWAY RIGHT-OF-WAY (CONT'D)

Winter Construction Work

Snow and ice removal operations of the Lake County Division of Transportation shall have precedence over the construction operations. A 12 foot wide (minimum) clear area from the highway povement edge shall be maintained for the roadside storage of snow and ice. No construction equipment or materials shall be stored in this 12 foot wide (minimum) clear are nor shall any piles of dirt or excavated, materials be left in this area.

Restoration and Clean-Up

The area of the County Highway right—of—way disturbed by construction operations shall be kept to a minimum and she restored as promptly as weather and soil conditions permit. If restoration is not accomplished voluntarily, the Lake County Division of Transportation may set a final date for the completion of the restoration work.

Turf areas of the right—of—way disturbed by construction operations shall be compacted and regraded to an equal or better condition than existed before construction. Sod shall be used in high erasion areas. This restoration work will not be considered completed until the turf cover is established.

Cravel and paved shoulders that are damaged shall be replaced as directed by the Lake County Division of Transportation Driveways, side roads and other accesses, which are damaged, shall be restored with similar materials and thickness. edges of excovated paved surfaces shall be sawcut prior to repair. Culverts, storm sewer systems and other drainage facilities including diches lines shall be cleaned of sitation and debris due to the construction operation. Other areas of the right—of—way that have been disturbed such as curb and gutters shall be restored with similar

Any damaged property of the County of Lake, its Division of Transportation, or of others (including utility companies) shall be repaired or replaced or the owner of the damaged property reimbursed for the costs of repairing the damaged property

Any restoration work that fails within one year of completion shall be redone. Also, any settlement that occurs within one year of completion of the surface restoration work shall be filled and the surface area restored.

All roads shall remain open to traffic. The Contractor may close one lane because of construction only between the hours of 9:00 A.M. and 3:00 P.M. The Contractor shall maintain traffic during these restricted hours as shown on the Traffic Control Standards. Two lanes of traffic will be maintained between 3:00 P.M. and 9:00 A.M. and when no construction activities are being carried out. Traffic routed around construction areas shall be over paved sw faces and not over gravel shoulders.

I.D.O.T. GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURED ELECTRIC, TELEPHONE AND GAS FACILITES (48 HOUR NOFICATION IS REQUIRED).

10 FEET (3 METER) TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS & GUTTERS AND MEDIANS IN THE FIELD, UNLESS OTHERMISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF WAUKEGAN.

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

BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE II BARRICADE USED-ONE (1) WEIGHTED SANDBAG ACROSS EACH BOTTOM RAIL.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

GENERAL NOTES

- THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN LILLINOIS" LATEST EDITION, PROJECT SPECIFICATIONS, ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACENCY. THE CITY OF WAUKEGAN, LAKE COUNTY DIVISION OF TRANSPORATION, ALL APPLICABLE REQUIREMENTS OF THE ORDINANCES OF AUTHORITIES HAVING JURISDICTION AND ALL ADDENDA THERETIO SHALL GOVERN THIS WORK.
- A-2. THE STANDARD SPECIFICATIONS, PROJECT SPECIFICATIONS, CONSTRUCTION PLANS AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE TO BE CONSIDERED A PART OF THE CONTRACT.
- A-3, NO CONSTRUCTION PLANS SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED FOR CONSTRUCTION. PRIOR TO COMMENCEMENT OF CONSTRUCTION. PRIOR TO COMMENCEMENT OF CONSTRUCTION, HE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADES. FF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSION OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE RESIDENT ENGINEER SHALL BE PLANS OR SPECIFICATIONS, THE DECISION OF THE RESIDENT ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- A-4. BEFORE ACCEPTANCE BY THE OWNER AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED AND APPROVED BY THE OWNER OR HIS REPRESENTATIVES. FINAL PAYMENT WILL BE MADE AFTER ALL OF THE CONTRACTOR'S WORK HAS BEEN APPROVED AND ACCEPTED.
- WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, CTC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTURED, THE COSSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED. DUE TO ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUE DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.
- A-6. THE CONTRACTOR SHALL SOLELY BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES, AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION.
- A-7. DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. SITE DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING OR ANY OTHER METHOD ACCEPTABLE TO THE ENGINEER AND THE CITY.
- A-8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM HIS CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.
- A-9. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY EQUIPMENT OR LABORERS TO EXISTING CONDITIONS. CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL COMPLETION OF THIS CONTRACT.
- A-10. EXISTING UTILITIES: WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER IN RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF THE LIST OF THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF THE LIST OF THE MANNER IN WHICH THEY ARE TO BE REMOVED ON THE RESPECTIVE UTILITY COMPANIES, JULLIES, DETAILED INFORMATION RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THEM.
- A-11. THE CITY OF WAUKEGAN SHOULD BE CONTACTED 48 HOURS PRIOR TO THE START OF ANY EXCAVATION. (847-625-6827)
- A-12. AGGREGATE SPECIFIED ON THESE PLANS SHALL BE CONSIDERED CRUSHED STONE MEETING THE GRADATION SPECIFIED. CRUSHED CONCRETE MAY NOT BE SUBSTITUTED FOR CRUSHED STONE, UNLESS APPROVED BY THE RESIDENT ENGINEER.

- A-13. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RICHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER SO THAT THE CORNICT AND RESPONSED. CONSTRUCTION, THE CONTRACTOR SHITHAT THE CONFLICT MAY BE RESOLVED.
- A-14. REMOVED PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. SHALL BE DISOFFSITE AT LOCATIONS PROVIDED BY THE CONTRACTOR AT HIS EXPENSE.
- A-15. ALL PROPOSED SIDEWALK REMOVAL, COMBINATION CURB AND GUTTER REMOVAL, PCC SIDEWALK, 5" AND COMBINATION CONCRETE CURB AND GUTTER B6.12 OR B6.24 IDENTRIED ON THE TRAFFOR SIGNAL MISTALLATION OR THE TRAFFO SIGNAL MODERN

PAVING AND GRADING NOTES

- C-1. ALL PAVEMENT DIMENSIONS ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE INDICATED.
- C-2. PAVING WORK SHALL INCLUDE FINAL SUB-GRADE SHAPING AND PREPARATION, FORMING, PLACEMENT OF BASE COURSE MATERIALS, AND SUBSEQUENT BINDER AND/OR SURFACE COURSES, FINISHING AND CURING OF CONCRETE, FINAL CLEAN-UP AND ALL RELATED WORK.
- AND ALL RELATED WORK.

 C-3. PAYEMENT DESIGN SHALL BE AS DETAILED. PRIOR TO THE PLACEMENT OF ANY STONE BASE ALL SUBBASE SHALL BE COMPACTED WITH A SELF-PROPELLED SHEEPSFOOT COMPACTOR (CAT 815 OR LARGER) TO A MINIMUM DENSITY OF 95% MODIFIED PROCTOR. TESTING SHALL BE BY NUCLEAR DENSITY TEST AND PROOF ROLLING, THE CONTRACTOR SHALL PROOF ROLL THE SUBGRADE BEFORE PAYEMENT CONSTRUCTION PROCEDS. THE PROOF ROLL MUST BE WITNESSED BY THE ENGINEER AND A REPRESENTATIVE OF THE VILLAGE. THE SUBGRADE WILL NOT BE APPROVED AND ACCEPTED WITHOUT PROOF ROLLING. THE PROOF ROLLING SHALL BE DONE BY A FULLY LOADED THREE-AXLE DUMP TRUCK TOGETHER WITH LOAD WEIGHING AT LEAST TWENTY-FIVE (25) TONS, IT THE SUBGRADE OR BASE HAS FAILURE OR PUMPING AS INDICATED BY PROOF ROLLING, THE AREA OF FAILURE OR PUMPING SHALL BE SCARFED AND RECOMPACTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, SUBSEQUENT PROOF ROLL WILL BE CONDUCTED UNTIL THE SUBGRADE IS FOUND TO BE ACCEPTABLE TO THE ENGINEER.

 C-4. ALL DISTURBED NON-PAYEMENT AREAS SHALL BE ROLING FOR CONTRACTORS.
- C-4. ALL DISTURBED NON-PAYEMENT AREAS SHALL BE ROUGH GRADED. THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION PREVENTION AND REPAIR.
- C-5. ALL CURB AND SIDEWALK SHALL BE REINFORCED WITH TWO #4 REBARS (THREE EQUALK) PARCED REBAR FOR SIDEWALK) WHENEVER THE CURB OR SIDEWALK CROSSES A UTILITY TRENCH. EXTEND THE REBAR TEN FEET BEYOND THE TRENCH
- C-6. EXTRA CARE SHALL BE EXERCISED WHEN OPERATING EQUIPMENT AROUND TREES AND SHRUBS. INJURED BRANCHES OR ROOTS SHALL BE PRUNED IN A MANNER SATISFACTORY TO THE ENGINEER AND SHALL BE PAINTED WHERE THE CUT WAS MADE. ROOTS EXPOSED DURING EXCAVATING OPERATIONS SHALL BE NEATLY PRUNED AND COVERED WITH TOPSOIL. THIS WORK SHALL BE DONE AS SOON AS POSSIBLE AND SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE

LAKE 86 3

GHA #4135.800

COUNTY TOTAL SHEET NO. SUMMARY OF QUANTITIES AND GENERAL NOTES FILE NAME = USER NAME = GHA DESIGNED - JRD **REVISED** - 9/15/09 (LCDOT) SECTION Lake County
Division of Transpo **REVISED** - 9/25/09 (IDOT) 135.315-TR1.dwg DRAWN - ZCW 2730 08-00259-00-TL PLOT SCALE = 1" = .08 CHECKED - DPB **REVISED** - 10/19/09 (LCDOT) CONTRACT #: 63344 Division of Transportation **REVISED** - 11/06/09 (IDOT) SCALE: 1"=20' SHEET NO. 3 OF 86 SHEETS STA. TO STA. PLOT DATE = 11/06/09 DATE - 11/06/09 ILLINOIS FED. AID PROJECT