04-25-14 LETTING ITEM 169

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

FOR INDEX OF SHEETS, SEE SHEET NO. 2 PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU 2798 CENTRAL AVENUE/CARPENTER ROAD AT PRATT AVENUE TRAFFIC SIGNAL, RESURFACING SECTION: 12-00058-00-TL PROJECT: M-4003(192) VILLAGE OF LINCOLNWOOD CARPENTER ROAD/CENTRAL AVENUE - MINOR ARTERIAL **COOK COUNTY**

C-91-310-13

ADT = 19,800 POSTED SPEED LIMIT . 35-30 MPH PRATT AVENUE - MAJOR COLLECTOR ADT . 8,600 POSTED SPEED LIMIT . 30 MPH

> RANGE 13E. 3RD PM Fairview Lr **BEGIN IMPROVEMENTS END IMPROVEMENTS** STA. 10+76 **END IMPROVEMENTS** STA. 13+85 **BEGIN IMPROVEMENTS** LOCATION MAP STA. 1+33

STA. 10+00 FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

GROSS AND NET PROJECT LENGTH • 1,328' (.261 MILES) 850 Forest Edge Drive • Vernon Hills, IL. 60061 Tel. 847.478.9700 • Fax 847.478.9701

(Not to Scale)

LOCATION OF SECTION INDICATED THUS: - -

12-00058-00-TL

COOK 41 1 ILLINOIS CONTRACT NO. 61A27

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
APPROVED 2/2	014
7: Wil-	
VILLAGE OF LINCOLNWOOD, VILLAGE MAN	IAGER
,	
PASSED FEBRUARY 13 2	0.4
CHOUT C.J. HOUT	
DISTRICT ONE ENGINEER OF LOCAL ROADS AN	ID STREETS
RELEASED FOR BID REVIEW Fabruary 13 2	0_14
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE	ENGINEER
PROFESSIONAL ENGINEER'S SIGNATURE & SEA	L
Str. Berry 6000	neer Ca
2 12 /1U PROFESS	ONAL BER
DATE	11/30/15 SEAL

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 61A27

1-800-892-0123 OR 811

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- INDEX OF SHEETS, GENERAL NOTES, STATE STANDARDS, STANDARD SYMBOLS
- SUMMARY OF QUANTITIES
- TYPICAL SECTIONS
- DEMOLITION PLAN
- GEOMETRIC AND PAVEMENT MARKING PLAN
- PRATT AVENUE PLAN AND PROFILE
- 11.-12. CENTRAL AVENUE PLAN AND PROFILE
 - TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
 - TEMPORARY CABLE PLAN & TEMPORARY PHASE DESIGNATION DIAGRAM
 - TRAFFIC SIGNAL MODERNIZATION PLAN
 - SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
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- DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS
 - BUTT JOINTS AND HMA TAPER
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- ARTERIAL ROAD INFORMATION SIGN
- CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS 31. -33.
- MWRD GENERAL NOTES AND DETAILS
- 35.-36. PRATT AVENUE CROSS SECTIONS 37. - 41.CENTRAL AVENUE CROSS SECTIONS

- GENERAL NOTES
- A-1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JAN. 1, 2012, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JAN. 1, 2014, THE DETAILS IN THE PLANS AND SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- THE STANDARD SPECIFICATIONS, PROJECT SPECIFICATIONS, CONSTRUCTION PLANS AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT. INCIDENTAL ITEMS NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE TO BE CONSIDERED A PART OF THE CONTRACT.
- A-3. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE 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. IF 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 ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- BEFORE ACCEPTANCE BY THE ENGINEER AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED AND APPROVED BY THE ENGINEER OR HIS REPRESENTATIVES. FINAL PAYMENT WILL BE MADE AFTER ALL OF THE CONTRACTOR'S WORK HAS BEEN APPROVED AND ACCEPTED BY THE ENGINEER AND THE PERMITTING AGENCIES
- WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE 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 DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT
- THE CONTRACTOR SHALL 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 PROVIDE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. SITE DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING OR ANY OTHER METHOD ACCEPTABLE TO THE
- 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
- 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
- A-10. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-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 ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.

PAVING AND GRADING NOTES

- B-1. ALL PAVEMENT DIMENSIONS ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE
- 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.
- B-3. ALL DISTURBED NON-PAVEMENT AREAS SHALL BE ROUGH GRADED. THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION PREVENTION AND REPAIR.
- 3/4" THICK PRE-MOLDED FIBER EXPANSION JOINTS WITH 3/4" x 18" PLAIN ROUND STEEL DOWEL BARS SHALL BE INSTALLED IN ALL CURBS, 1/2" x 12" PLAIN ROUND STEEL DOWEL BARS IN SIDEWALK AT (60') SIXTY FOOT INTERVALS AND AT ALL P.C.'S, P.T.'S, CURB RETURNS. ALTERNATE ENDS OF THE DOWEL BARS SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES. ALL EXPANSION JOINTS MUST BE FREE OF CONCRETE FOR FULL DEPTH. CONTRACTION JOINTS SHALL BE TOOLED AT 5' INTERVALS IN THE SIDEWALK. THE COST OF THESE JOINTS SHALL BE CONSIDERED AS INCIDENTAL TO THE COST OF THE CONTRACT. CONTRACTION JOINTS SHALL ALSO BE TOOLED DOWN THE CENTER OF ALL SIDEWALKS GREATER THAN 6' WIDE. (FIVE FOOT SPACING MAXIMUM).
- ALL PORTLAND CEMENT CONCRETE SHALL BE CURED AND PROTECTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. TWO COATS OF WHITE CURING COMPOUND SHALL BE APPLIED TO ALL CONCRETE WORK AS SOON AS THE FINISH IS COMPLETE, WITHIN ONE (1) HOUR OF FINAL STRIKING.
- UNLESS OTHERWISE NOTED, CONCRETE SIDEWALKS SHALL BE 5" THICK (8" THICK THROUGH DRIVEWAYS), SET ON THE 4" CA-6 CRUSHED STONE COMPACTED SUBBASE AND SHALL BE 1/4" ABOVE THE ADJACENT CURB.
- WHENEVER NEW CONCRETE ABUTS EXISTING CONCRETE, SET A 3/4" THICK PRE-MOLDED FIBER EXPANSION JOINT AND 3/4" IDOT STANDARD EXPANSION ANCHOR TIES IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THIS INCLUDES CONCRETE POURED ADJACENT TO EXISTING SIDEWALKS, CURBS AND BUILDINGS. THE DOWEL BARS SHOULD BE 4" INTO EXISTING EXISTING CONCRETE WITH 8" EXTENDING INTO NEW CONCRETE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CURB AND GUTTER PAY ITEM.
- B-8. PRIME COAT FOR THE SURFACE COURSE SHALL BE APPLIED TO THE BINDER AT A RATE OF 0.07 GAL/SY (SS-1). PRIME COAT FOR THE BINDER COURSE SHALL BE APPLIED TO THE SUBBASE AT A RATE OF 0.25 GAL/SY (P.E.P.)
- ALL CURB AND SIDEWALK SHALL BE REINFORCED WITH TWO #4 REBARS (THREE EQUALLY SPACED REBAR FOR SIDEWALK) WHENEVER THE CURB OR SIDEWALK CROSSES A UTILITY TRENCH. EXTEND THE REBAR TEN FEET BEYOND THE TRENCH ON BOTH SIDES.
- B-10. ALL SIGN POSTS SHALL CONFORM TO IDOT, COUNTY AND VILLAGE STANDARDS. EXISTING SIGNS SHALL BE TEMPORARILY RELOCATED DURING CONSTRUCTION.
- B-11. WHEN REMOVING CURB, SIDEWALK OR PAVEMENT, SAW CUT SHALL BE FULL DEPTH OF OF THE ITEM BEING REMOVED. THE COST OF SAWCUTTING SHALL BE INCLUDED

- THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND FOR WORKERS
- ANY WASTE GENERATED AS SPECIAL WASTE OR A WASTE NOT CERTIFIED AS A NON-SPECIAL WASTE FROM THE PROJECT SHOULD BE MANIFESTED OFF-SITE USING THE GENERATOR NUMBER ASSOCIATED WITH COOK COUNTY. THE GENERATOR NUMBER FOR COOK COUNTY IS 0318995023.

STATE STANDARDS

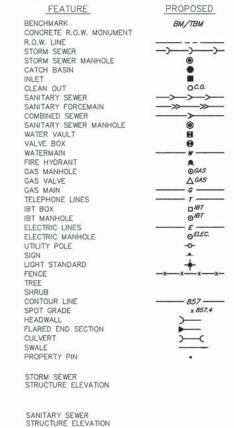
DISTRICT DETAILS

BD400-05 BD32 BM-20 TC-10	EXISTING BM/TBM
TC-13 TC-16 TC-22 TC-24A	—)—)—)— © O C.o.
TC-24B TC-24C	->->->- >->>
	—————————————————————————————————————
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	-x - x x - x - x - x - x - x - x - x -
ENT ENGINEER SHALL CONTACT THE NOF A TRAFFIC FIELD ENGINEER OR TECHNICI.	TH HTS

THE RESIDENT COOK AREA TE 773-685-8386 AT LEAST (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS

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

LEGEND



INDEX OF SHEETS, GENERAL NOTES, STATE STANDARDS, STANDARD SYMBOLS

SHEET NO. 1 OF 1 SHEETS STA.

SECTION COUNTY SHEETS NO. 2798 12-00058-00-TI COOK 41 2 CONTRACT #: 61A27 ILLINOIS FED. AID PROJECT

WATER MAIN

STRUCTURE ELEVATION

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ILE NAME =

232.407-DT1.dwg

JSER NAME = BRIAN WESOLOWSKI DESIGNED - BJW REVISED REVISED - -PLOT SCALE = -CHECKED - SDB REVISED - -REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

Special Provision		Item TREE REMOVAL (6 TO 15 UNITS DIAMETER)		Unit UNIT	Total Quantity 44	Sp
	20101100	TREE TRUNK PROTECTION		EACH	4	
	20101200	TREE ROOT PRUNING		EACH	4	
	20200100	EARTH EXCAVATION		CUYD	500	F
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATI	ERIAL	CUYD	75	E
-	20800150	TRENCH BACKFILL		CUYD	4	F
	21101615	TOPSOIL FURNISH AND PLACE, 4"		SQYD	1,450	F
		NITROGEN FERTILIZER NUTRIENT		POUND	20	F
	25000500	PHOSPHORUS FERTILIZER NUTRIENT		POUND	20	F
		POTASSIUM FERTILIZER NUTRIENT		POUND	20	F
		SODDING, SALT TOLERANT		SQYD	1,450	F
		SUPPLEMENTAL WATERING		UNIT	45	F
		PERIMETER EROSION BARRIER		FOOT	290	İ
		INLET FILTERS		EACH	12	
				CUYD	75	I
		AGGREGATE SUBGRADE MPROVEMENT				T
		AGGREGATE BASE COURSE, TYPE B 4"	NATIONAL OF	SQ YD SQ YD	2,350	İ
		PORTLAND CEMENT CONCRETE BASE COURSE	WIDENING 9"			
		AGGREGATE SURFACE COURSE, TYPE A 4"		SQYD	50	I
		BITUMINOUS MATERIALS (PRIME COAT)		GALLON	1,000	
		AGGREGATE (PRIME COAT)		TON	10	
		LEVELING BINDER (MACHINE METHOD), N70		TON	175	I
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT J	IONT	SQYD	500	I
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50		TON	175	İ
	40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D",	N70	TON	454	t
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 IN	ICH	SQFT	4,750	-
	44000100	PAVEMENT REMOVAL		SQYD	300	+
	44000200	DRIVEWAY PAVEMENT REMOVAL		SQYD	725	+
		CURB REMOVAL		FOOT	75	F
	44000500	COMBINATION CONCRETE CURB AND GUTTER F	REMOVAL	FOOT	2,167	F
-	44000600	SIDEWALK REMOVAL		SQFT	2,000	F
	44201299	DOWEL BARS 1 1/2"		EACH	1,075	F
	44201785	CLASS D PATCHES, TYPE I, 12 INCH		SQYD	50	Ŧ
	44201789	CLASS D PATCHES, TYPE II, 12 INCH		SQ YD	100	F
	44201794	CLASS D PATCHES, TYPE III, 12 INCH		SQ YD	150	F
	44201796	CLASS D PATCHES, TYPE IV, 12 INCH		SQ YD	170	+
	550B2310	STORM SEWERS, RUBBER GASKET, CLASS B, T	YPE 1, 10"	FOOT	13	F
•	56103000	DUCTILE IRON WATER MAIN 6"		FOOT	10	F
*	56103200	DUCTILE IRON WATER MAIN 10"		FOOT	40	+
•	56103300	DUCTILE IRON WATER MAIN 12"		FOOT	10	#
•	56400500	FIRE HYDRANTS TO BE REMOVED		EACH	2	#
•	56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VAL	VE BOX	EACH	2	+
	60207905	CATCH BASINS, TYPE C, TYPE 11 FRAME AND G	RATE	EACH	1	+
	60250200	CATCH BASINS TO BE ADJUSTED		EACH	3	+
	60251520	CATCH BASINS TO BE ADJUSTED WITH NEW TY	PE 11 FRAME AND GRATE	EACH	3	+
						_
LE NAME = 232.407-DT1.dwg		USER NAME = BRIAN WESOLOWSKI	DESIGNED - BJW DRAWN - ZCW	REVISED -	-	-
The second secon		PLOT SCALE = -	CHECKED - SDB	REVISED -	-	

Special Provision	Code#	Item	Unit	Total Quantity	Specialty Item
	60255500	MANHOLES TO BE ADJUSTED	EACH	1	
	60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1	
	60260400	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	
	60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1	
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1,461	
	60603900	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 AEP	FOOT	25	
	66900200	NON-SPECIAL WASTE DISPOSAL	CUYD	240	*
	66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	*
	66900530	SOIL DISPOSAL ANALYSIS	EACH	2	*
	67100100	MOBILIZATION	LSUM	1	
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	
	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	LSUM	1	
		TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	
		TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	
		SHORT TERM PAVEMENT MARKING	FOOT	1,000	
		SIGN PANEL - TYPE 1	SQFT	20	
				49	
		SIGN PANEL - TYPE 2	SQFT	7-1-5	
		INSTALL EXISTING SIGN PANEL	SQFT	100	
		REMOVE SIGN PANEL - TYPE 1	SQFT	70	
	72400320	REMOVE SIGN PANEL - TYPE 2	SQFT	55	•
	72900100	METAL POST - TYPE A	FOOT	26	*
	72900200	METAL POST - TYPE B	FOOT	90	•
	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQFT	146	•
	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2,922	•
	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	720	•
	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	237	•
	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	101	•
	78300100	PAVEMENT MARKING REMOVAL	SQFT	170	
	80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1	*
	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	641	*
	81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	19	*
	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	49	*
	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	281	*
	81400100	HANDHOLE	EACH	4	×
	81400200	HEAVY-DUTY HANDHOLE	EACH	1	*
		DOUBLE HANDHOLE	EACH	2	
		REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	4	
		REMOVAL OF POLE FOUNDATION	EACH	4	7 1 1 1071
		FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1	
		ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	433	*
		ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	855	*
		ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	913	*
		ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,081	*
	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,356	*

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1	SUMMARY OF QUANTITIES		FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1			2798	12-00058-00-TL	соок	41	3
١					CONTRACT	# 61	A27
	SCALE NONE	SHEET NO. 1 OF 2 SHEETS STA. TO STA.	-	ILLINOIS FED.	AID PROJECT		

NAME =			USER NAME = BRI	AN WESOLOWSKI		DESIGNED -	BJW		REVISED -
Δ	20076604	TRAINEES			ie.				
Δ *		TRAINEES	S TRAINING PRO	GRAM GRADUA	TE				HOUR
			ARYTRAFFIC SIC	SNAL TIMING					EACH
			IZE TRAFFIC SK		EVEL 2				EACH
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			CAP EXISTING 1						EACH
-			IAIN REMOVAL,						FOOT
-			IAIN REMOVAL,		-				FOOT
<u>.</u>			ASPHALT SURFA		SPECIAL				SQYD
-			BLE WARNINGS		000000				SQFT
•			ID CEMENT CON		VAYPAVE	EMENT 6 INCH	I, SPECIAL		SQYD
•			AND REINSTALL						SQFT
			NCY VEHICLE PE			NSOR CABLE	, NO. 20 3/C)	FOOT
			A TOMENTOSA						EACH
			EXISTING CONC						EACH
			EXISTING HAND						EACH
			EXISTING TRAFI		JPMENT				EACH
			ARY TRAFFIC SIC						EACH
			RIAN PUSH-BUTT		7011	Min and a second			EACH
			TECTOR AMPLIF						EACH
		LIGHT DE							EACH
			E LOOP DETEC	TOR					EACH
	88200210	TRAFFIC	SIGNAL BACKPL	ATE, LOUVERE	D, ALUMI	NUM			EACH
	88102717	PEDESTE	RIAN SIGNAL HEA	AD, LED, 1-FACI	E, BRACK	ET MOUNTED	WITH COU	NTDOWN TIM	ER EACH
	88030250	SIGNAL H	EAD, LED, 2-FA	CE, 1-4 SECTION	N, 1-5 SEC	CTION, BRACK	(ET MOUNT	ED	EACH
	88030240	SIGNAL H	EAD, LED, 2-FA	CE, 1-3 SECTION	N, 1-5 SEC	CTION, BRACK	CET MOUNT	ED	EACH
	88030210	SIGNAL H	EAD, LED, 2-FA	CE, 3-SECTION,	BRACKE	T MOUNTED			EACH
	88030110	SIGNAL H	EAD, LED, 1-FA	CE, 5-SECTION,	MAST-AF	RM MOUNTED			EACH
	88030080	SIGNAL H	EAD, LED, 1-FA	CE, 4-SECTION,	MASTAR	RM MOUNTED			EACH
	88030070	SIGNAL H	EAD, LED, 1-FA	CE, 4-SECTION,	BRACKE	T MOUNTED			EACH
	88030020	SIGNAL H	EAD, LED, 1-FA	CE, 3-SECTION,	MAST-AF	RM MOUNTED			EACH
	87800400	CONCRE	TE FOUNDATION	I, TYPE E 30-INC	H DIAME	TER			FOOT
	87800150	CONCRE	TE FOUNDATION	I, TYPE C					FOOT
	87800100	CONCRE	TE FOUNDATION	I, TYPE A					FOOT
	07700100	O ILLL W	AOT ANIM AGGE	MDL I AND I OLL	., 2011.				LAOIT

DRAWN - ZCW

CHECKED - SDB

DATE - 1/31/14

SUMMARY OF QUANTITIES

87301805 ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C

87502480 TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.

87502500 TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
87700150 STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.

87700180 STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.

87301900 ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C

Provision Code#

GEWALT

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9232.407-DT1.dwg

PLOT SCALE = -

PLOT DATE = 1/31/14

Δ 0042

Total

4,700

662

500

500

REVISED - -

REVISED - -

REVISED - -

FOOT

FOOT

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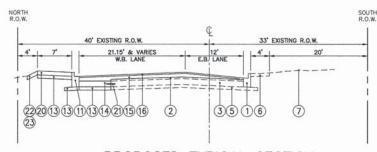
EACH

Specialty

Item

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL SECTION STA. 10+00 TO STA. 13+71 PRATT AVENUE

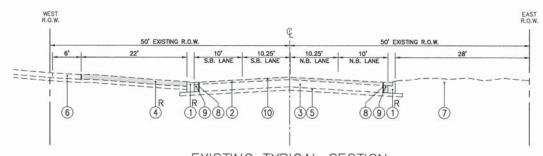


PROPOSED TYPICAL SECTION STA. 10+00 TO STA. 13+71 PRATT AVENUE

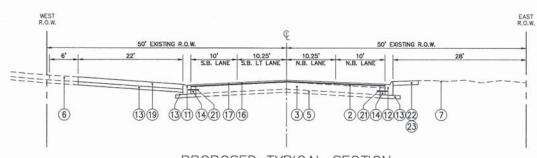
HOT-MIX ASPHALT MIXTURE REQUIREMENT	S	
MIXTURE TYPE	AIR VOIDS © Ndes	DEPTH
HOT-MIX ASPHALT RESURFACING - CENTRAL		
HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N70 (IL 9.5 mm)	4% @ 70 GYR	1½"
LEVELING BINDER (MACHINE METHOD), N70 (IL 9.5 mm)	4% @ 70 GYR	3 "
HOT-MIX ASPHALT RESURFACING - PRATT		
HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N70 (IL 9.5 mm)	4% @ 70 GYR	1½"
HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50	4% @ 50 GYR	21"
HOT-MIX ASPHALT PATCHING		
CLASS D PATCH (HMA BINDER IL-19mm)	4% @ 70 GYR	12" (IN 4 LIFTS)

THE UNIT WEIGHT TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN

FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.



EXISTING TYPICAL SECTION STA. 1+33 TO STA. 10+76 CENTRAL AVENUE



PROPOSED TYPICAL SECTION STA. 1+33 TO STA. 10+76 CENTRAL AVENUE

LEGEND:

- 1 EXISTING B6.12 CURB & GUTTER
- 2 EXISTING BITUMINOUS PAVEMENT OVERLAY, 4" & VARIES
- 3 EXISTING PORTLAND CEMENT BASE COURSE, 9" & VARIES
- 4 EXISTING DRIVEWAY
- (5) EXISTING AGGREGATE SUB-BASE
- 6 EXISTING SIDEWALK
- 7 EXISTING GROUND
- 8 PROPOSED SAWCUT EXISTING PAVEMENT
- (9) PROPOSED FULL DEPTH PAVEMENT REMOVAL
- 10 PROPOSED HOT MIX ASPHALT SURFACE REMOVAL, 2.25" & VARIES
- (11) PROPOSED COMB. CONC CURB AND GUTTER TYPE B-6.12
- 12) PROPOSED COMB. CONC CURB AND GUTTER TYPE B-4.12
- 13 PROPOSED AGGREGATE BASE COURSE, TYPE B, 4"
- 14 PROPOSED PORTLAND CEMENT CONCRETE BASE COURSE WIDENING, 9"

SCALE: NONE

(15) PROPOSED HOT MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2.25" & VARIES

- (16) PROPOSED HOT MIX ASPHALT SURFACE COURSE, MIX "D", N70, 11/2"
- (7) PROPOSED LEVELING BINDER (MACHINE METHOD) N70, 3/4"
- (18) PROPOSED STRIP REFLECTIVE CRACK CONTROL TREATMENT
- (19) PROPOSED P.C.C. DRIVEWAY PAVEMENT, 6" (RESIDENTIAL) HMA DRIVEWAY, 6" (RESIDENTIAL) HMA DRIVEWAY, 8" (COMMERCIAL)
- 20 PROPOSED P.C.C. SIDEWALK, 5" PCC SIDEWALK, 6" AT RESIDENTIAL DRIVEWAYS
- 21) PROPOSED NO. 12 EPOXY COATED TIE BAR
- 22 PROPOSED SODDING, SALT TOLERANT
- 23 PROPOSED TOPSOIL FURNISH AND PLACE 4"
- OR ITEM TO BE REMOVED

GEWALT HAMILTON 850 Forest Edge Drive ASSO CLATES, INC. PA. (87) 185500

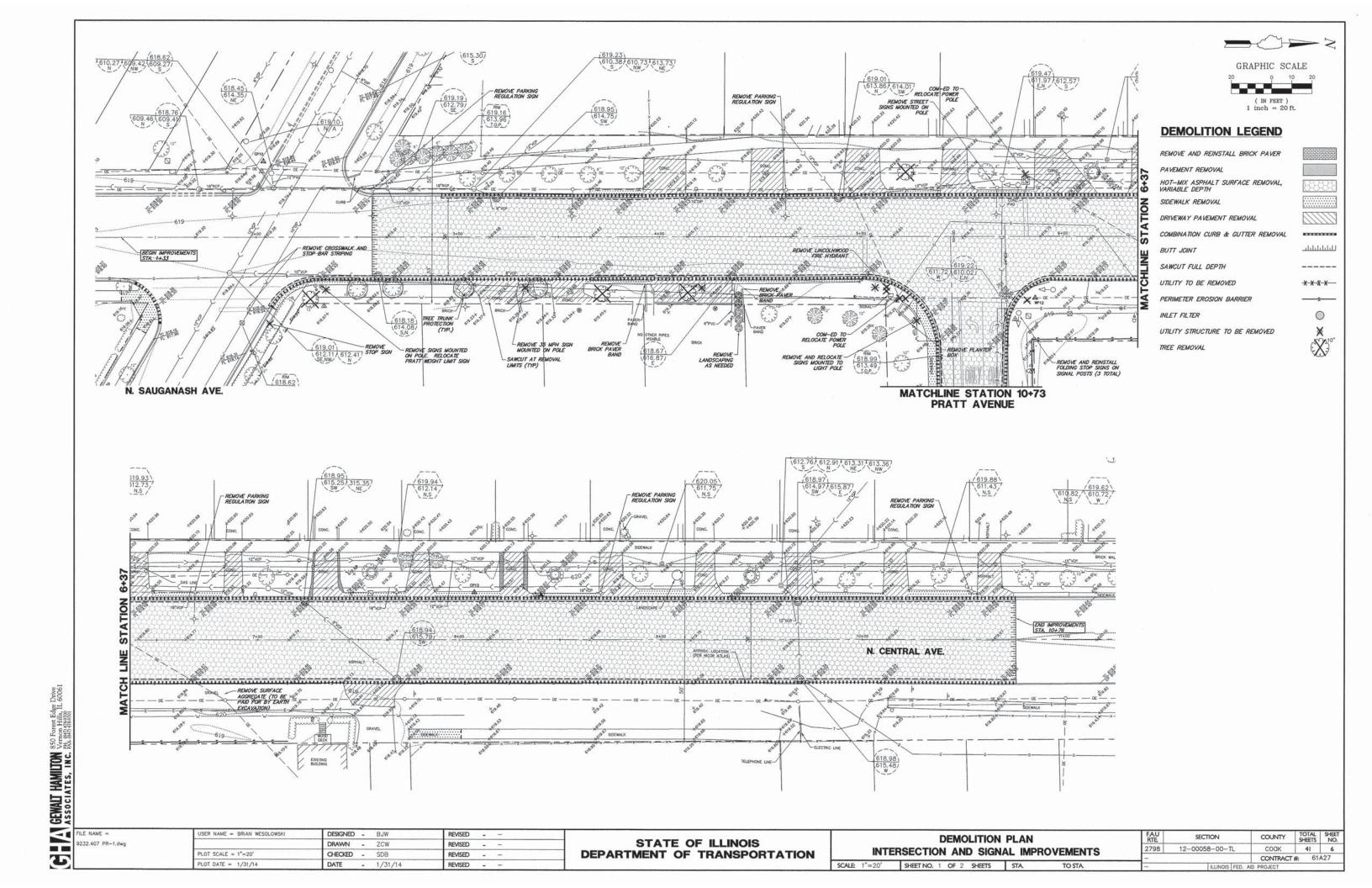
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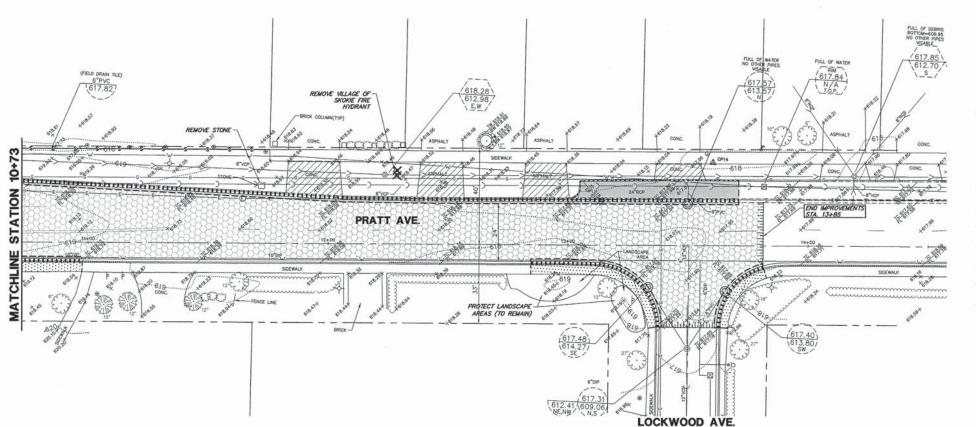
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USER NAME = BRIAN WESOLOWSKI	DESIGNED	-	BJW	REVISED	-	-
	DRAWN	-	ZCW	REVISED	- 4	-
PLOT SCALE = -	CHECKED	-	SDB	REVISED	-	_
PLOT DATE = 1/31/14	DATE	(m)	1/31/14	REVISED	-	-

STAT	E O	F ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

TYPICAL SECTIONS	FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2798	12-00058-00-TL	COOK	41	5
	-		CONTRACT	#: 61	A27
SHEET NO. 1 OF 1 SHEETS STA. TO STA.	-	ILLINOIS FED. A	ID PROJECT		





DEMOLITION LEGEND

REMOVE AND REINSTALL BRICK PAVER

PAVEMENT REMOVAL

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

SIDEWALK REMOVAL

DRIVEWAY PAVEMENT REMOVAL

COMBINATION CURB & GUTTER REMOVAL

BUTT JOINT

SAWCUT FULL DEPTH

UTILITY TO BE REMOVED

PERIMETER EROSION BARRIER

INLET FILTER

UTILITY STRUCTURE TO BE REMOVED

TREE REMOVAL

GRAPHIC SCALE للتلتلتلتلت (IN FEET) 1 inch = 20 ft.



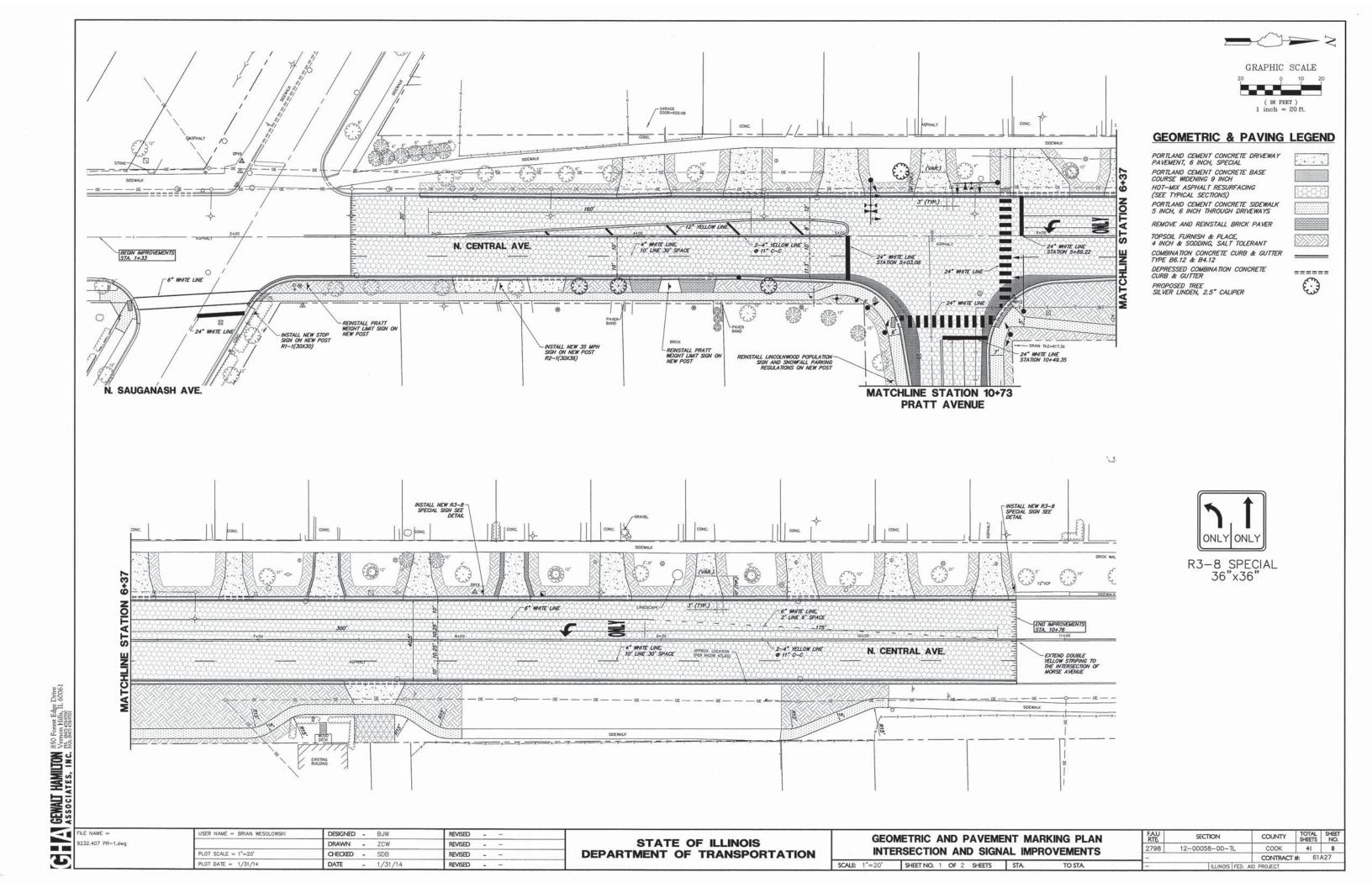
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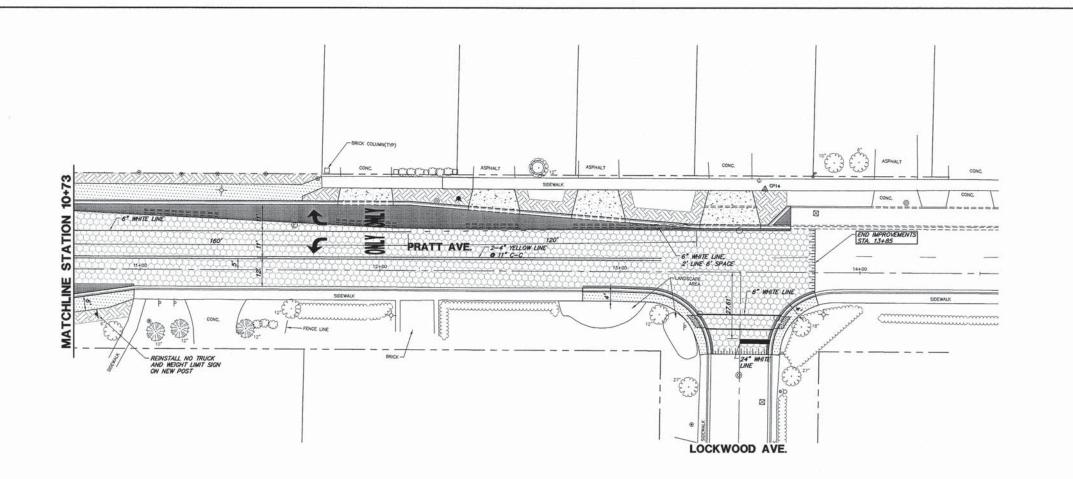
ASSOCIATES, INC. PACE STATES INC. PACE S

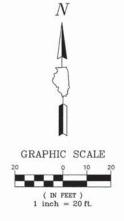
9232.407 PR-1.dwg Ü

USER NAME = BRIAN WESOLOWSKI	DESIGNED - BJW	REVISED	
	DRAWN - ZCW	REVISED	
PLOT SCALE = 1"=20"	CHECKED - SDB	REVISED	
 PLOT DATE = 1/31/14	DATE - 1/31/14	REVISED	

IE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
98	12-00058-00-TL	COOK	7	
200		CONTRACT	#: 61	A27
	ILLINOIS FED.	AID PROJECT		







GEOMETRIC & PAVING LEGEND

PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH, SPECIAL PAREMENT, O INCH, SPELIAL
PORTLAND CEMENT CONCRETE BASE
COURSE WIDENING 9 INCH
HOT-MIX ASPHALT RESURFACING
(SEE TYPICAL SECTIONS) PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, 6 INCH THROUGH DRIVEWAYS

REMOVE AND REINSTALL BRICK PAVER

TOPSOIL FURNISH & PLACE, 4 INCH & SODDING, SALT TOLERANT COMBINATION CONCRETE CURB & GUTTER TYPE B6.12 & B4.12 DEPRESSED COMBINATION CONCRETE CURB & GUTTER PROPOSED TREE SILVER LINDEN, 2.5" CALIPER



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GEWALT HAMILTON 850 Forest Edge Drive ASSOCIATES, INC. FM. (85) 185/10 1 60001

BIT ASSOCIATES, INC. FM. (85) 185/10 1 60001

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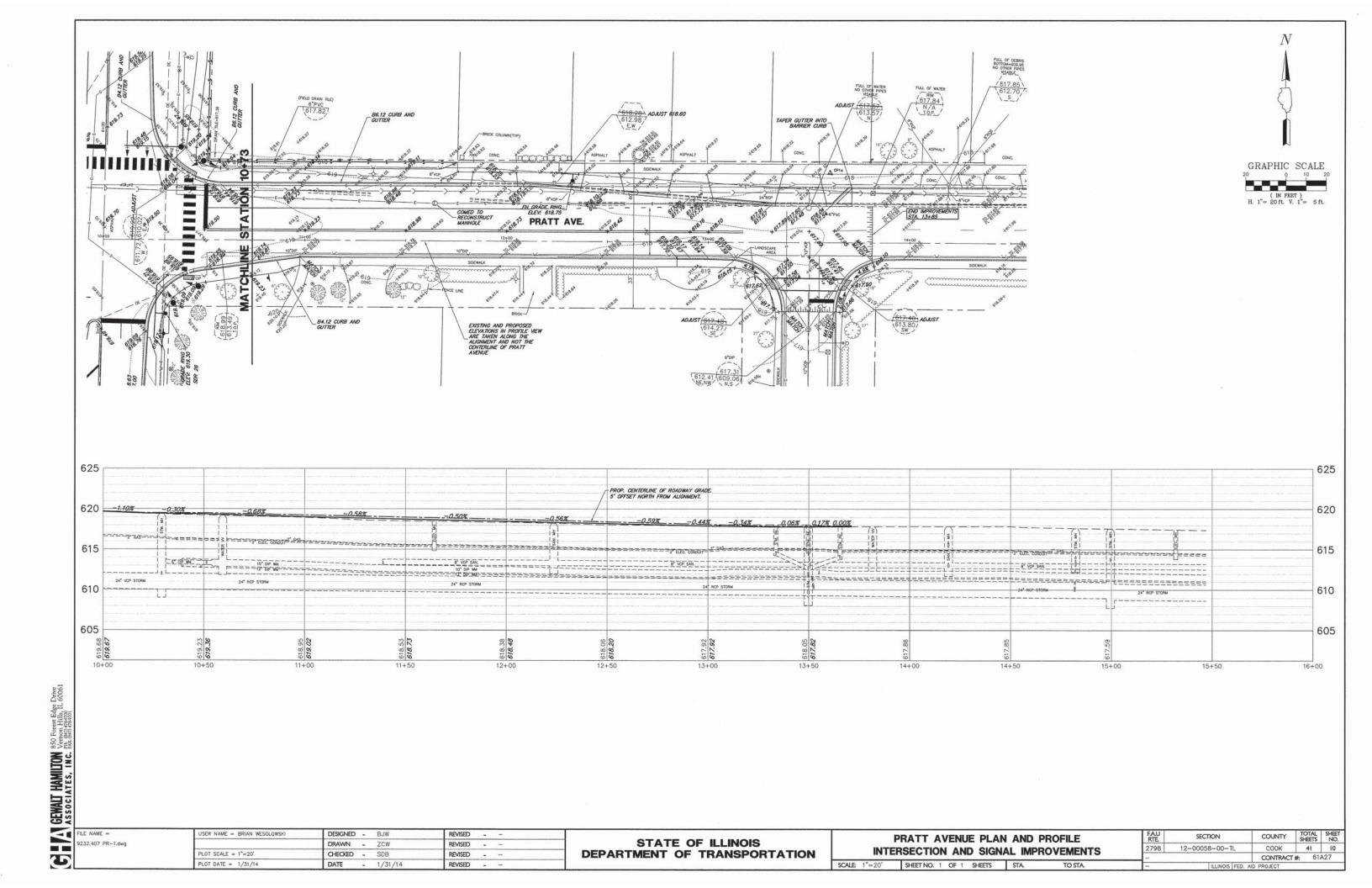
USER NAME = BRIAN WESOLOWSKI	DESIGNED	-	BJW	REVISED	-	-
	DRAWN	-	ZCW	REVISED	-	_
PLOT SCALE = 1"=20"	CHECKED	-	SDB	REVISED	_	_
 PLOT DATE = 1/31/14	DATE	-	1/31/14	REVISED	-	+

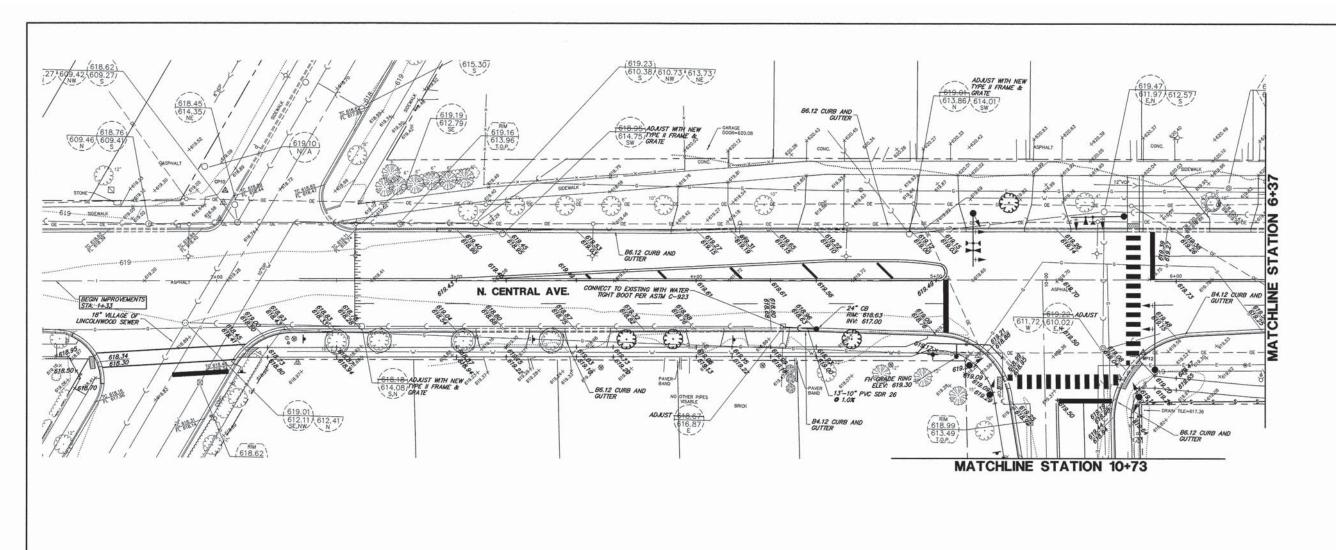
STAT	E O	F ILLINOIS	
DEPARTMENT	OF	TRANSPORTATION	

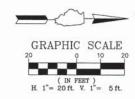
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INTE	ERSECTION	A NC	ND SIG	SNAL IMP	ROVEMENTS	,
"-20"	CHEET NO	2 OF	2 SUPETS	STA	TOSTA	

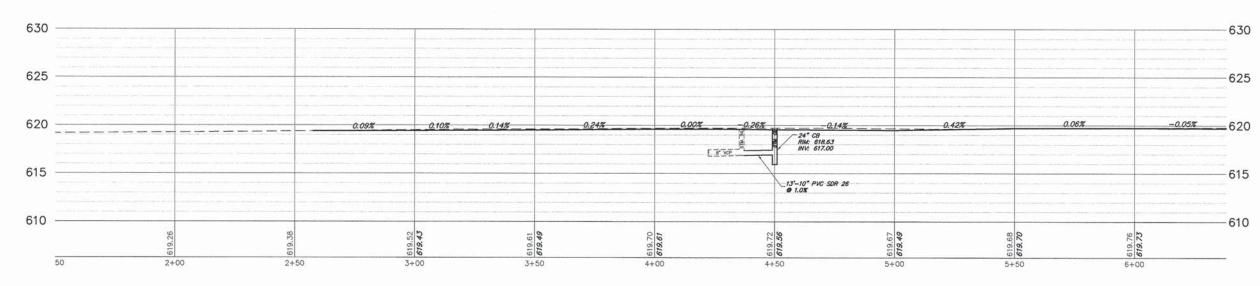
SCALE 1

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2798	12-00058-00-TL	COOK	41	9
-		CONTRACT	#: 61	A27
-	ILLINOIS FED.	AID PROJECT		-









GEWALT HAMILTON 850 Forest Edge Drive ASSOCIATES, INC. P. M. (87) 48570

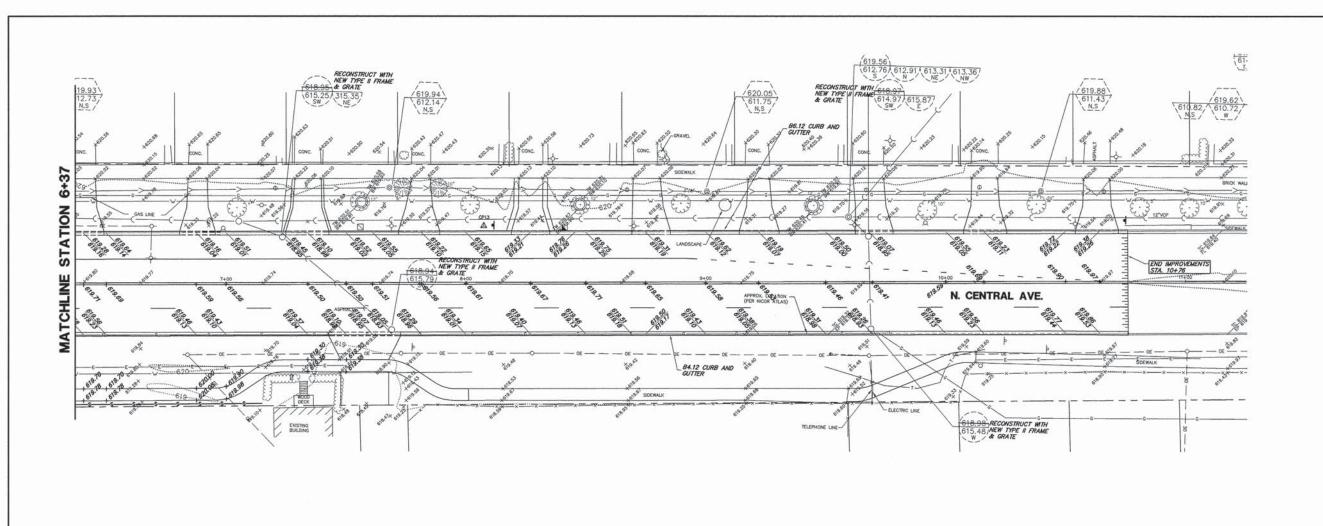
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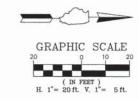
FILE NAME = 9232.407 PR-1 USER NAME = BRIAN WESOLOWSKI REVISED - -DESIGNED - BJW 9232.407 PR-1.dwg DRAWN - ZCW REVISED - -REVISED - -PLOT SCALE = 1"=20" CHECKED - SDB PLOT DATE = 1/31/14 DATE - 1/31/14 REVISED - -

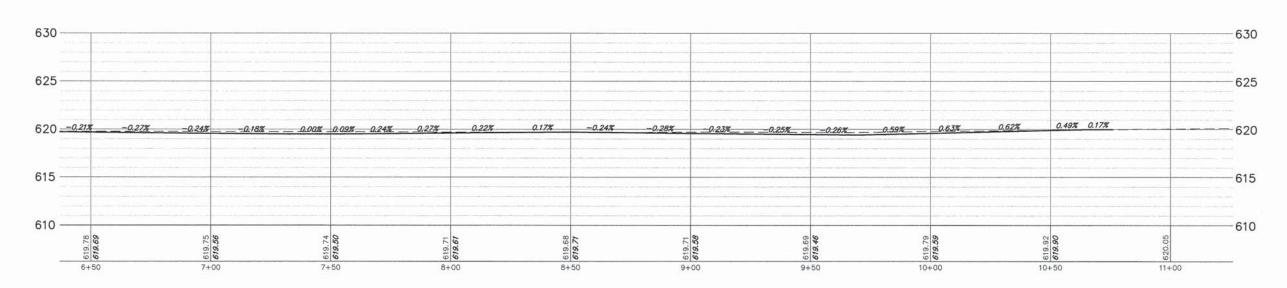
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	C	ENTRAL	F	V	ΕN	UE PLA	N AN	D PROFILE
	INTE	RSECTIO	10	I A	N	SIGN	AL IMP	PROVEMENTS
SCALE	1"=20"	SHEET NO.	1	OF	2	SHEETS	STA	TO STA

FAU RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
2798	12-00058-00-1	TL.	COOK	41	- 11
- 77			CONTRACT	#: 61	A27
-	ILLINOIS	FED. Al	D PROJECT		







GENALT HAMILTON 850 Forest Edge Drive
ASSOCIATES, INC. PAS #37458781

BIT ASSOCIATES, INC. PAS #37458781

BIT ASSOCIATES, INC. PAS #37458781

BIT ASSOCIATES, INC. PAS #37458781

BIT ASSOCIATES, INC. PAS #37458781

FILE NAME = USER NAME = BRIAN WESOLOWSKI DESIGNED - BJW REVISED -
9232.407 PR-1.dwg

PLOT SCALE = 1"=20" CHECKED - SDB REVISED -
PLOT DATE = 1/31/14 DATE - 1/31/14 REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CENTRAL AVENUE PLAN AND PROFILE
INTERSECTION AND SIGNAL IMPROVEMENTS

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

NOTES FOR TEMPORARY TRAFFIC SIGNALS: 1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE

FURNISHED BY THE CONTRACTOR.

GEWALT ASSOCIA

C

FILE NAME

161A27-Ø13-ts.dg

- 2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP FOLIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- 3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- 4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- 5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND

USER NAME = ZWallster

PLOT DATE = 2/18/2014

PLOT SCALE = 1:20

DESIGNED - JRD

CHECKED - DPB

REVISED

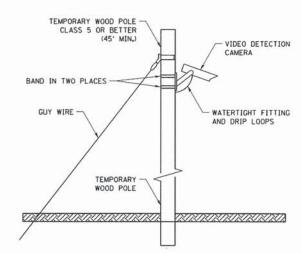
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NOTES FOR TEMPORARY TRAFFIC SIGNALS CONTINUED:

- 6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS. SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
- 7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
- 8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
- 9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF THE DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
- 10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE



→

GHA #9232 40

COOK 41 13

CONTRACT NO. 61A27

COUNTY

SECTION

12-00058-00-TL

2798

TO STA.

TEMPORARY VIDEO DETECTION MOUNTING DETAIL

(NOT TO SCALE)

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING

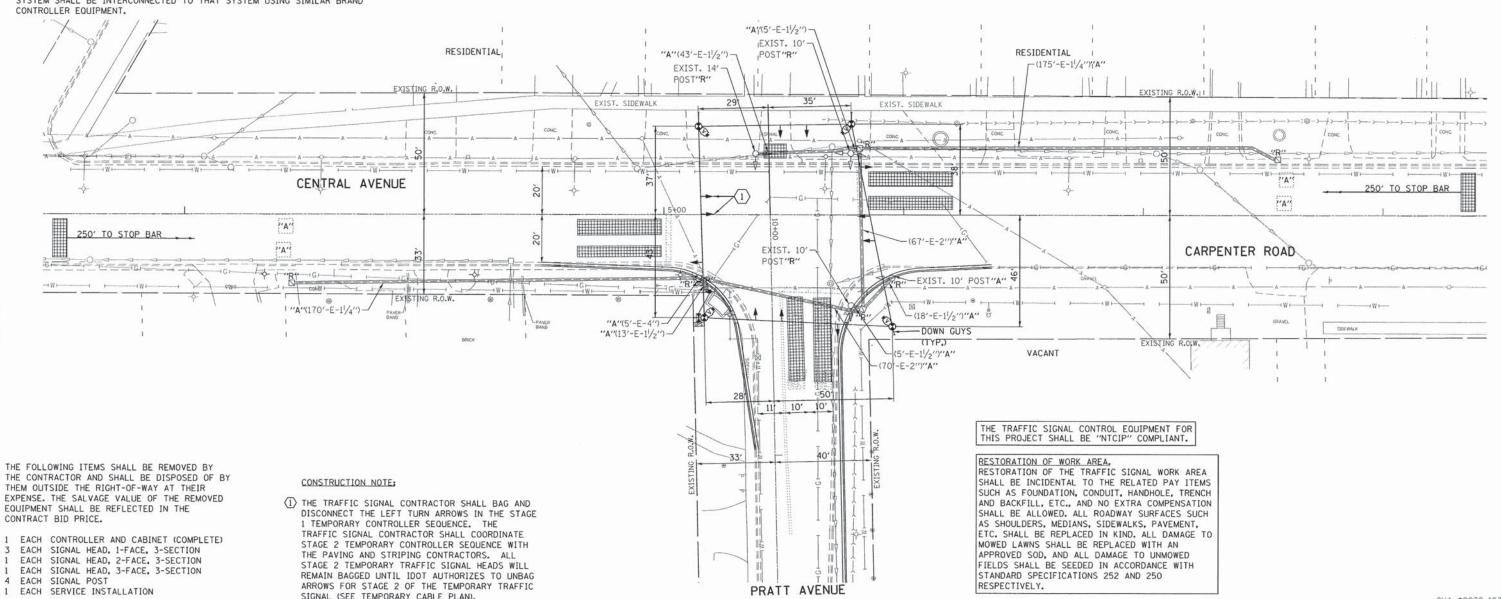
TRAFFIC SIGNAL EQUIPMENT - CENTRAL AVENUE /CARPENTER ROAD

AT PRATT AVENUE

SHEETS STA.

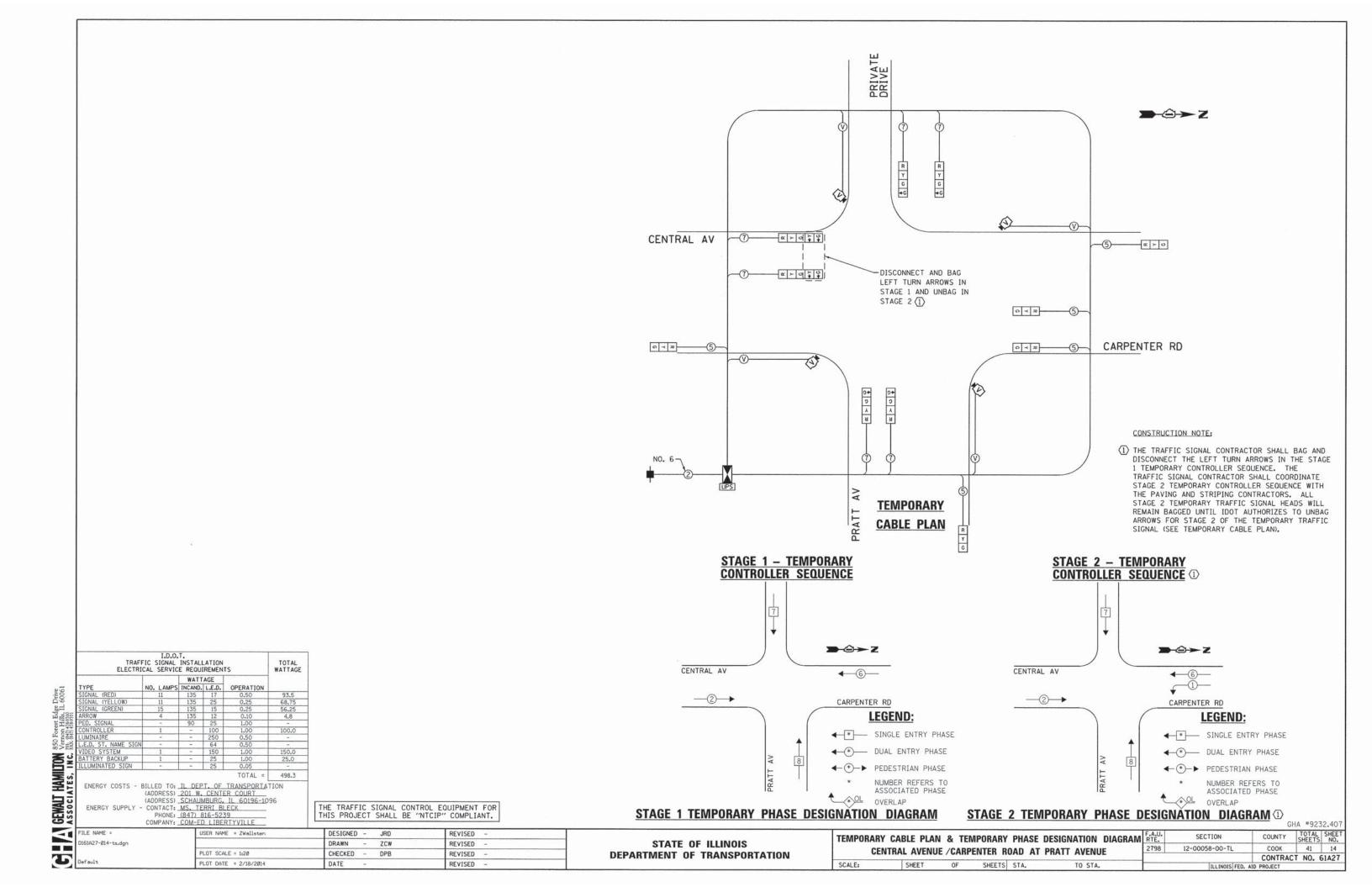
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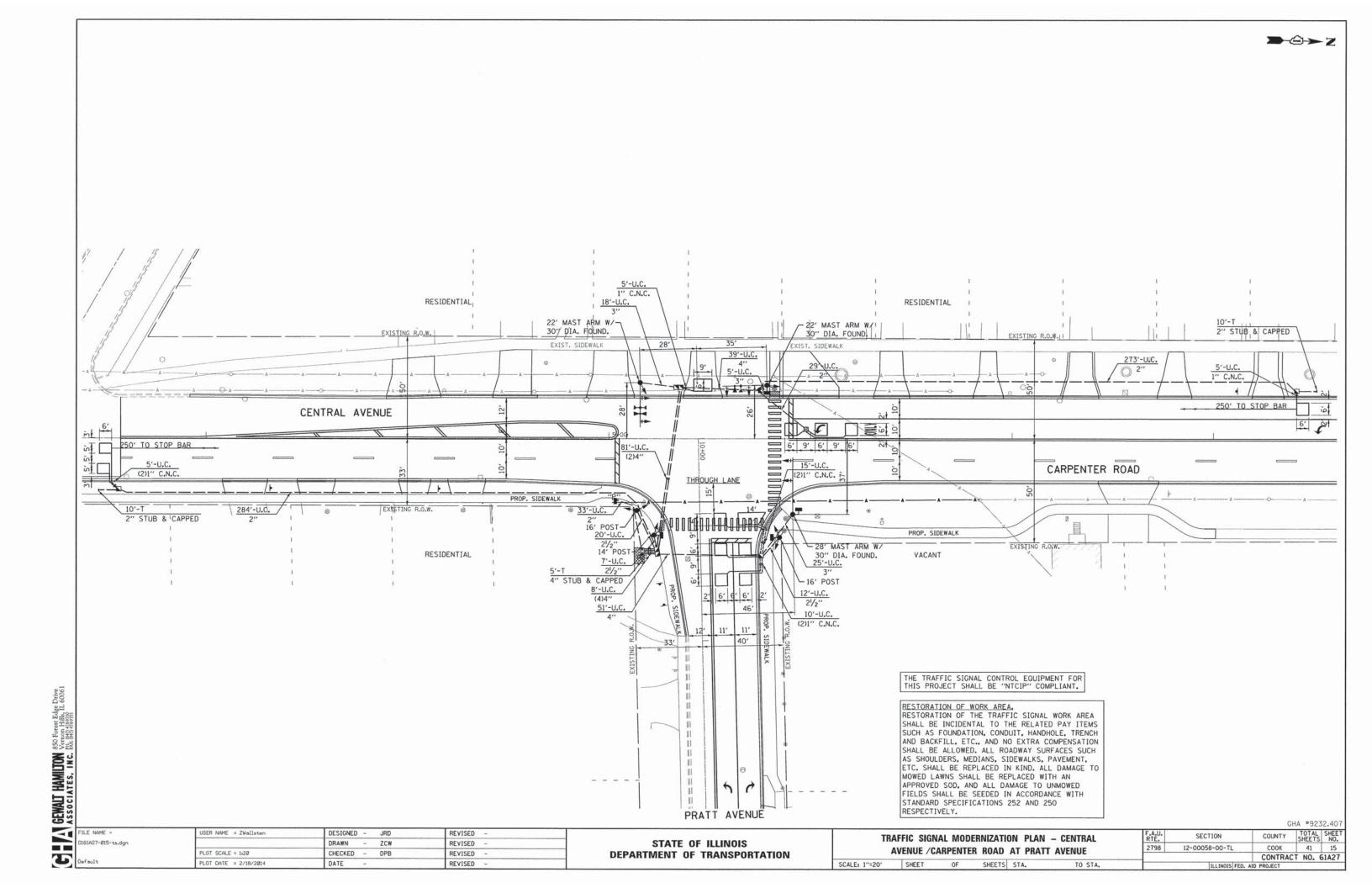
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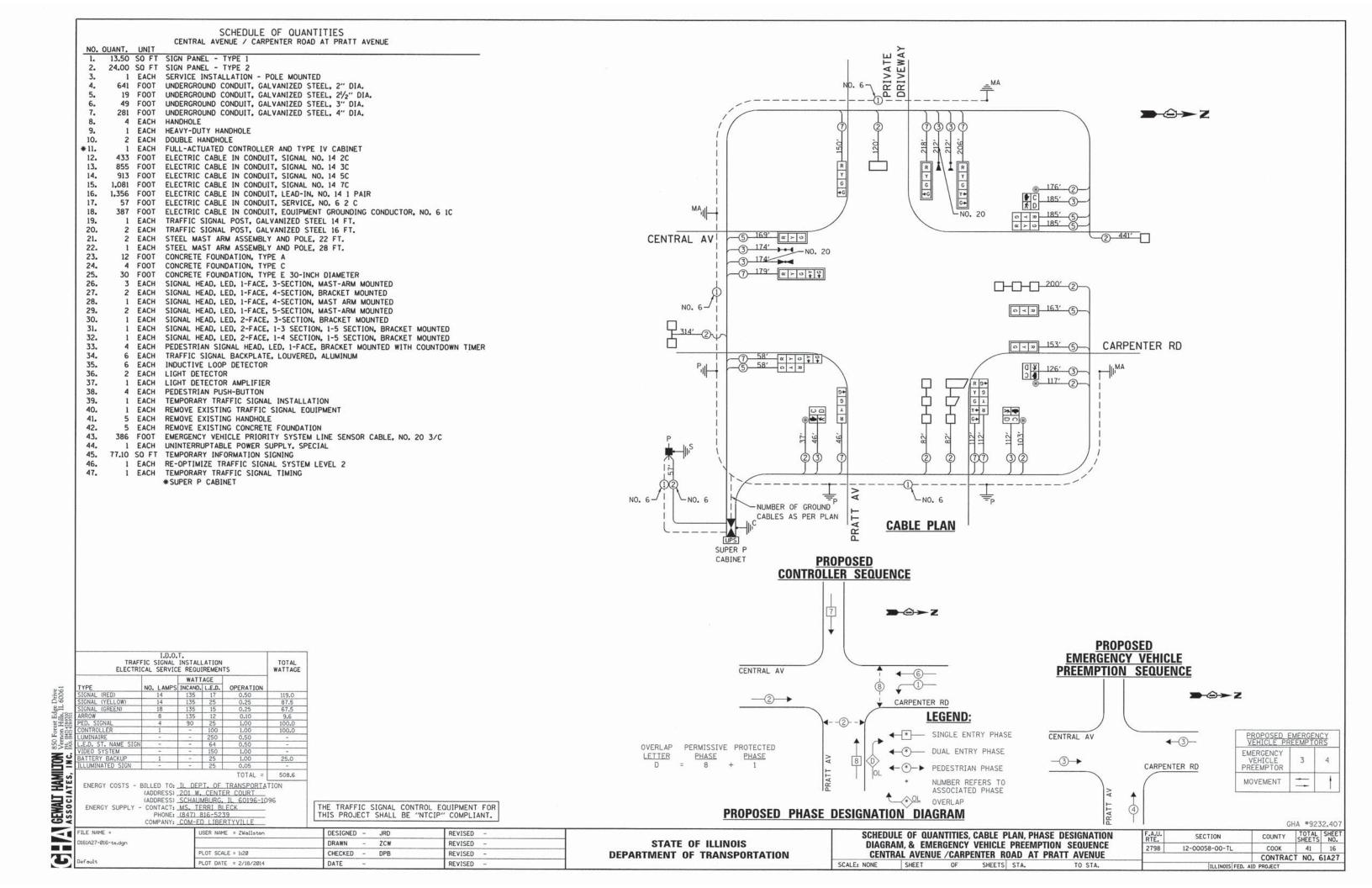


STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION







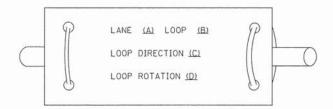
TRAFFIC SIGNAL LEGEND

Default	PLOT SCALE = 1:20 PLOT DATE = 2/18/2014		CHECKED - DAD DATE - 10-28-09	REVISED REVISED		OF TRANSP	ORTATION	SCALE: NON			TS-05	CONTRACT
D161A27-017-details.dgn		D	DRAWN - BCK	REVISED	STATE	OF ILLINOI			DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.U. RTE. 2798	SECTION 12-00058-00-TL	COUNTY SH
FILE NAME =	USER NAME = ZWallsten		DESIGNED - DAG/BCK	REVISED	NO. 6 SOLID COPPER (GREEN) - DAG 1-1-14					IF.A.U.	SECTION	GHA TO
WIRELESS ACCESS POINT		R			GROUND CABLE IN CONDUIT		(1)	(1)	CROSSBUCK		≥≤	*
WIRELESS DETECTOR SENSOR		RW	W	W	CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		_ 5 <u></u>	—5—	CROSSING GATE		X0X >	X-X-
PAN, TILT, ZOOM CAMERA		R PTZN	PTZI	PTZ*	DENOTES NUMBER OF CONDUCTORS, ELECTRIC		C.		FLASHING SIGNAL		XOX	X-X
VIDEO DETECTION ZONE					RADIO REPEATER	RERR	ERR	RR	RAILROAD CANTILEVER MAST ARM	2	X OX X X	YOU X
		LVH			RADIO INTERCONNECT	## * 0	++++0	 •	RAILROAD CONTROL CABINET			
VIDEO DETECTION CAMERA		R [V]1	[V]	②	SYMBOL, WITH COUNTDOWN TIMER	2747 #		100	5.W 50.0 00.750 0.750-7		EXISTING	PROPOSEI
MICROWAVE VEHICLE SENSOR		R M 1	MD	M	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL		₽ C	C XD			EVICTIVO	BD6B65
PREFORMED DETECTOR LOOP			IP]	Р	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID		()	*	RAILROAD	SYMBO	OLS	
DETECTOR LOOP, TYPE I												••
"NO RIGHT TURN"		(8)	(8)	®	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR		[PS]	PS
ILLUMINATED SIGN		R			12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		ÓW W		PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
ILLUMINATED SIGN "NO LEFT TURN"		R S	8	9	Supplementary Company Company Company		"P"	"P"	PREFORMED QUEUE DETECTOR		POI	PO
ACCESSIBLE PEDESTRIAN PUSH	BUTTON DETECTOR	R APS	@APS	APS O APS APS	"RB" INDICATES REFLECTIVE BACKPLATE		◆ Y	← Y ← G				
PEDESTRIAN PUSHBUTTON DET	ECTOR	8	©	•	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD			G	QUEUE DETECTOR		[0]	Q
PEDESTRIAN SIGNAL HEAD		-0	-0	-1	SIGNAL FACE WITH BACKELATE		R	R	SAMPLING (SYSTEM) DETECTOR		[5]	S
(S DENOTES SOLAR POWER)			2000	92037			<u></u>		INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
FLASHER INSTALLATION		R O-D''F''	O-⊳″F″	• ► "F"	entrematica del tatte del est		4 9	← Y ← G		360		
SIGNAL HEAD OPTICALLY PRO	GRAMMED	R →⊃"P"	—>:'P''	→ "P"	SIGNAL FACE		(c)	G	SIGNAL POST AND FOUNDATION TO BE REMOVED	RPF		
SIGNAL HEAD WITH BACKPLAT		+C ^R	+>	+►			R	R	AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	0-×		
SIGNAL HEAD CONSTRUCTION (NUMBERS INDICATE THE CONS				→ ²	YELLOW AND GREEN TRAFFIC SIGNAL FACE				STEEL COMBINATION MAST ARM ASSEMBLY	RMF		
SIGNAL HEAD		R →		-	12" (300mm) RED WITH 8" (200mm)		R		ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
GUY WIRE		>R	>	>-	12" (300mm) TRAFFIC SIGNAL SECTION		R	R	FOUNDATION TO BE REMOVED	2.2		
TEMPORARY WOOD POLE (CLASS BETTER) 45 FOOT (13.7m) MIN		®⊗	\otimes	•	ABANDON ITEM	A			STEEL MAST ARM POLE AND	RMF		
SIGNAL POST		RO	0	•	REMOVE ITEM RELOCATE ITEM	R RL			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
ASSEMBLY AND POLE WITH PI		PIZI	PULL	PT.	INTERSECTION ITEM		I	IP	OR (S) SERVICE	RCF		
ASSEMBLY AND POLE WITH LU STEEL COMBINATION MAST AR		R _C	0	100	SYSTEM ITEM		S	S	GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM,		C ₁₁	c∥⊢
STEEL COMBINATION MAST AR		R _{O-M}	0-¤	• ×	COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC	NO. 62.5/125, MM12F SM24F		<i>></i>	
ALUMINUM MAST ARM ASSEMB		R	0		COMMON TRENCH			СТ	FIBER OPTIC CABLE		—36F)—	—(36F)—
(P) POLE OR (G) GROUND MOU STEEL MAST ARM ASSEMBLY		R	0	•——	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	_R			NO. 62.5/125, MM12F SM12F		-24F	—24F)—
TELEPHONE CONNECTION	MT.	R	P	P	GALVANIZED STEEL (UC)				NO. 62.5/125, MM12F FIBER OPTIC CABLE			_
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOU	NT	- <u></u> R	-DP	- ■ P	JUNCTION BOX UNDERGROUND CONDUIT.	R		0	FIBER OPTIC CABLE		—(2F)—	
UNINTERRUPTABLE POWER SUF	PLY	UPS	EUPS	UPS	DOUBLE HANDHOLE	R SS		NN.	COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		- 6-	-6-
MASTER MASTER CONTROLLER		R	EMMC	MMC	HEAVY DUTY HANDHOLE	H	Н	\blacksquare	VENDOR CABLE FOR CAMERA		— <u>V</u>	
MASTER CONTROLLER			EMC	MC	HANDHOLE						-/	
COMMUNICATIONS CABINET		C C	ECC	CC		R			COAXIAL CABLE		_ ©_	— <u>c</u> —
RAILROAD CONTROL CABINET		⊠ ^R		▶<	EMERGENCY VEHICLE LIGHT DETECTOR CONFIRMATION BEACON	Ro-0	9	н	NO. 14 1/C, UNLESS NOTED OTHERWISE			
CONTROLLER CABINET		R		\blacksquare	EMEDICANON MEMORIE LAGUE DEFENDA	R	∞ <	-	ELECTRIC CABLE IN CONDUIT, TRACER.		~	

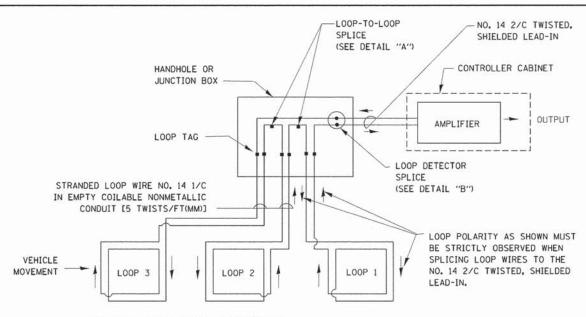
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

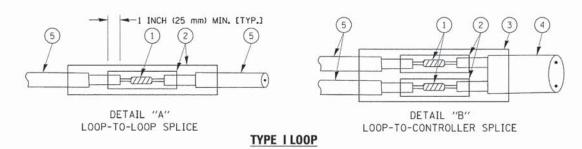


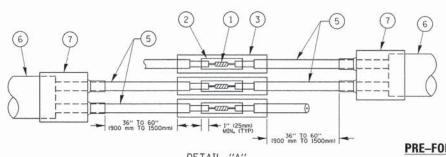
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

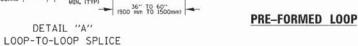


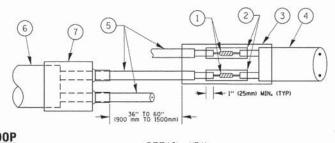
DETECTOR LOOP WIRING SCHEMATIC

- . 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 "B" LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

SCALE: NONE

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- (6) PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

SECTION

ILLINOIS FED. AID PROJECT

TS-05

GHA #9232.40

FILE NAME 61A27-018-details.dgn

GEWALT HAMILTON 850 Forest Edge Drive GEWALT HAMILTON Verson Hills, IL 60061 ASSOCIATES, INC. EX. 840 48500

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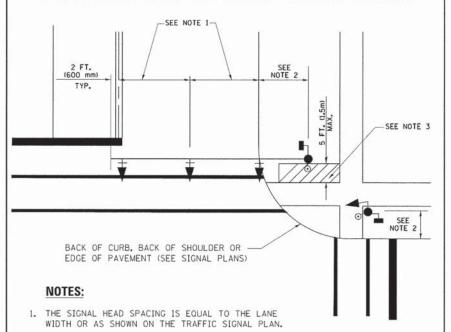
DESIGNED -REVISED - DAG 1-1-14 DAD DRAWN REVISED - BCK PLOT SCALE = 1:20 CHECKED - DAD REVISED PLOT DATE = 2/18/2014 DATE REVISED 10-28-09

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE 2798 12-00058-00-TI STANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET 2 OF 7 SHEETS STA.

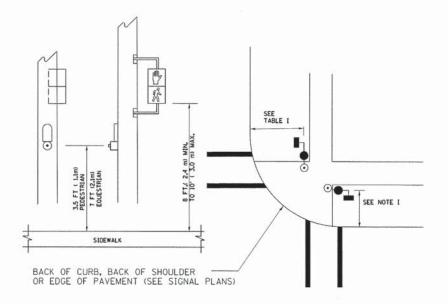
TOTAL SHEE NO. COUNTY соок 41 18 CONTRACT NO. 61A27

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



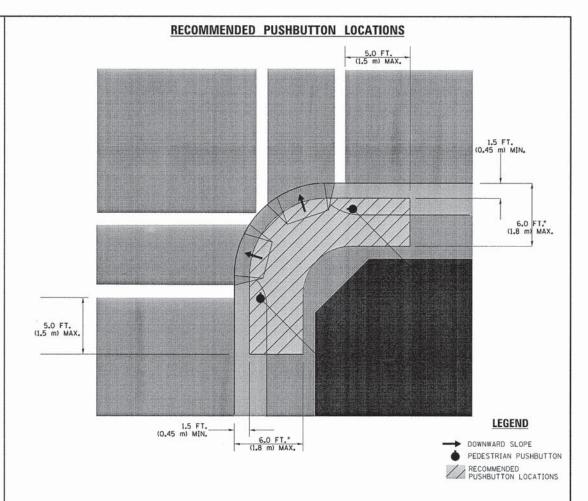
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK. ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO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

PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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



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

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

	THAIT TO STOTAL EGOTI MENT	011321
TRAFFIC SIGNAL EOUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1,8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

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

SCALE: NONE

GHA #9232.407

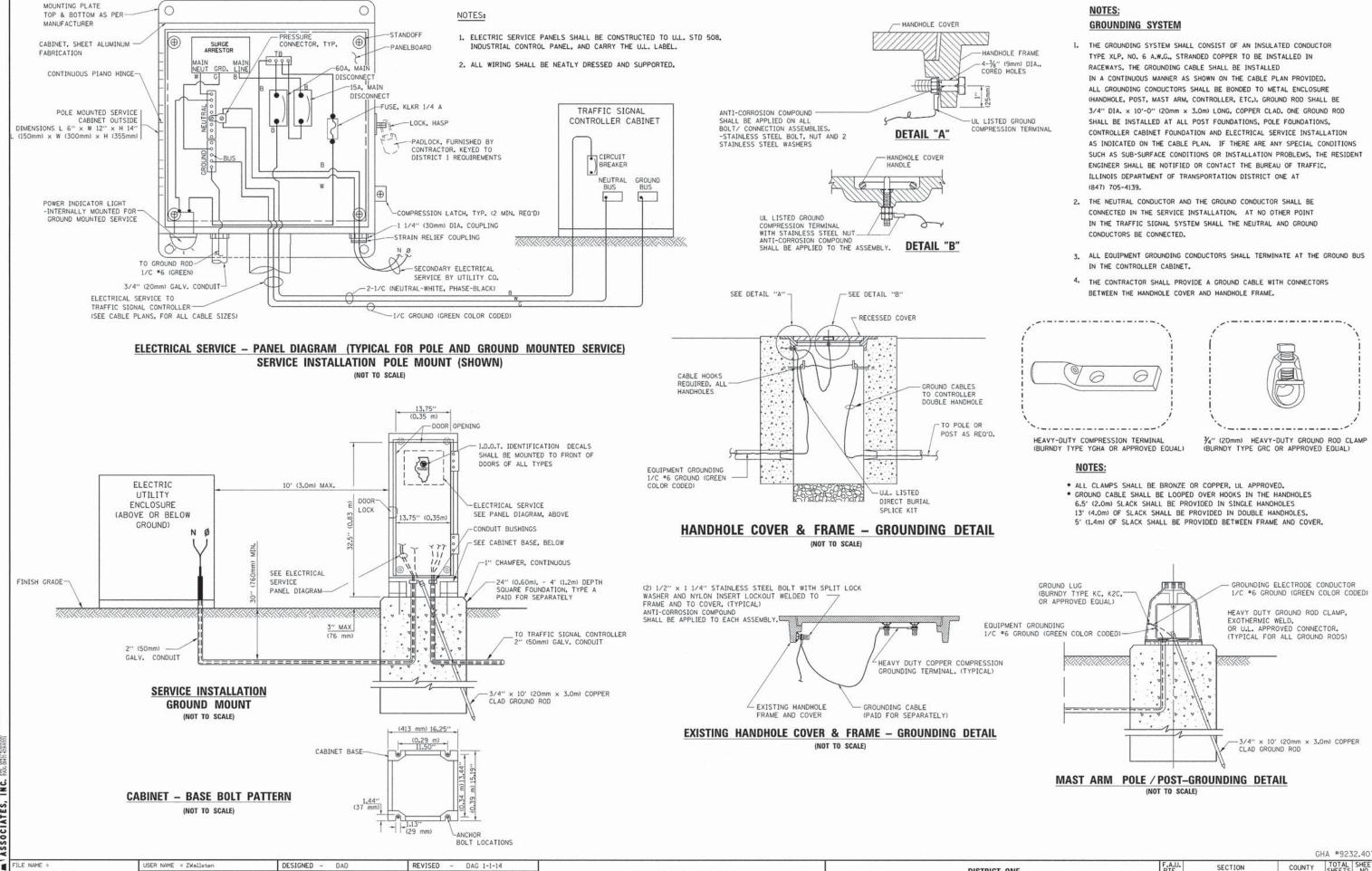
FILE NAME = USER NAME = ZWallsten DESIGNED - DAD REVISED - DAG 1-1-14 161A27-Ø19-details.dg DRAWN - BCK REVISED CHECKED - DAD REVISED LOT SCALE = 1:20 PLOT DATE = 2/18/2014 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TOTAL SHEE SHEETS NO. SECTION COUNTY DISTRICT ONE 2798 12-00058-00-TL COOK 41 19 STANDARD TRAFFIC SIGNAL DESIGN DETAILS CONTRACT NO. 61A27 TS-05 SHEET 3 OF 7 SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT

HAMILTON ATES, INC.

GEWALT S



GEWALT HAMILTON 850 Forest Edge Drive 10061

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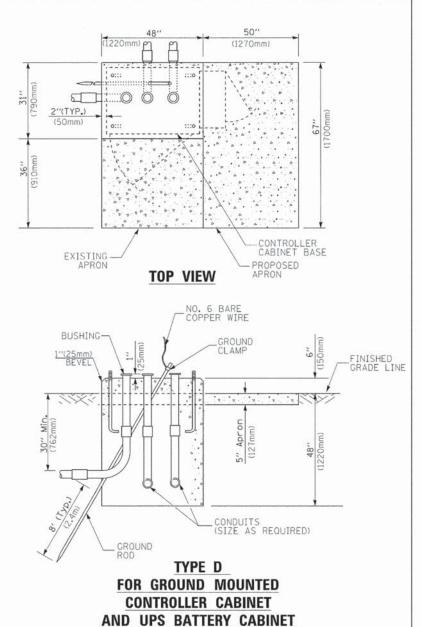
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

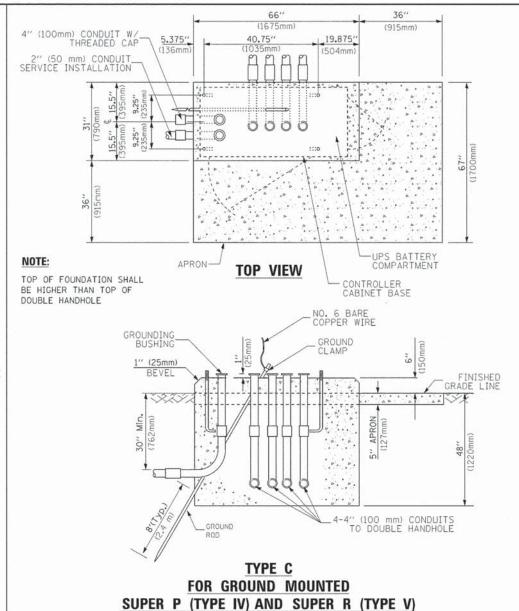
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SHEET 4 OF 7 SHEETS STA. TO STA.

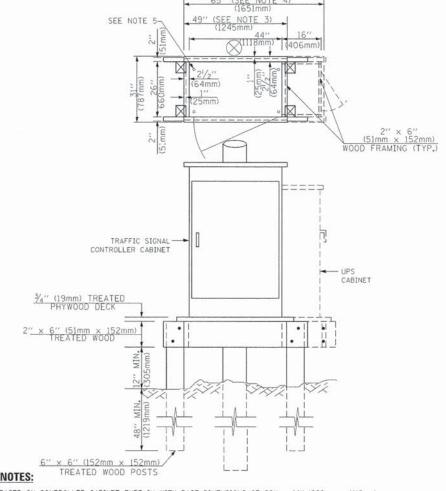
SCALE: NONE

F.A.U. SECTION COUNTY TOTAL SHEET NO. 2798 12-00058-00-TL MCHENRY 41 20 TS-05 CONTRACT NO. 61A27





CONTROLLER CABINETS



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

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

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

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

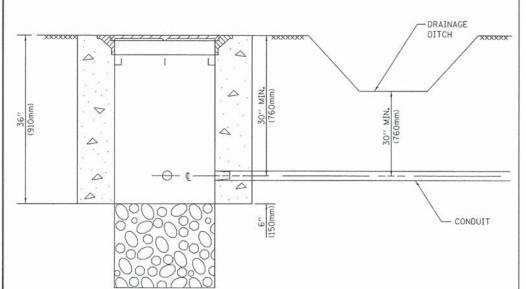
- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along
 the length of the shaft, with an average Unconfined Compressive Strength (0u) > 1.0 tsf (100 kpo).
 This strength shall be verified by boring data prior to construction or with testing by the Engineer
 during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised
 design if other conditions are encountered.
- 2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- 3. Combination most arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
- 4. For most arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

GHA #9232.40 TOTAL SHEETS NO.

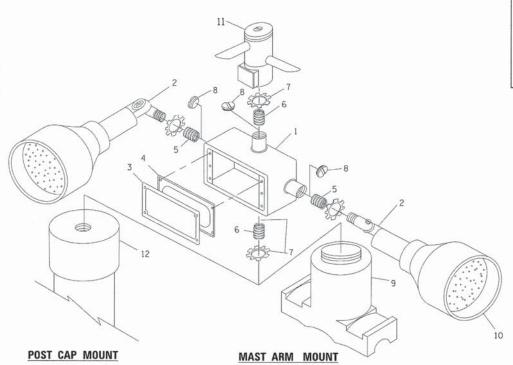
CONTRACT NO. 61A27

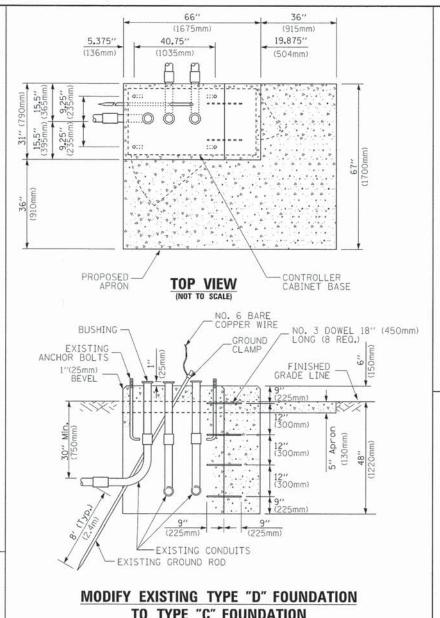
	1000		DEDECTOTAL DUCH DUTTON							03 11510 117				
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5	PEDESTRIAN PUSH BUTTON SERVICE INSTALLATION POLE MOUN		1	3.5	4.1	SERVICE INSTALLATION, GROUND MOUNT,	4'-0" (1.2m)	Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5	SERVICE INSTALLATION POLE MOUN SERVICE INSTALLATION GROUND MO	OUNT	1	3.5	2.0	TYPE A - SOUARE		NOTES:				
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6	FOUNDATION (SIGNAL POST, MAST	VERTICAL CABLE LENGTH		3.0	1.0	DEPTH OF FOUN	DATION	 These foundation depths are for the length of the shoft, with an This strength shall be verified by during foundation drilling. The Bur design if other conditions are en 	sites which have c average Unconfined boring data prior eau of Bridges & s countered.	ohesive soils (c d Compressive S to constructio tructures shou	layey silt, sandy strength (Ou) > 1. on or with testin uld be contacted	clay, etc.) alon 0 tsf (100 kpa) g by the Engin for a revised
CABLE SLACE	,									2. Combination mast arm assemblies u	nder 55 feet (16.8	m) shall use 36°	' (900 mm) diamet	er foundations
CADLE SLACI	<u>N</u>									 Combination mast arm assemblies undiameter foundations 	nder 56 feet (16.8	m) through 75	feet (22.9 m) sho	II use 42" (1060
CIP										4. For most arm assemblies with dual	arms refer to sta	ate standard 8	78001	
ASSO										DEPTH OF	MAST ARM	FOUNDA	TIONS, TYP	E E
FILE NAME = USER 1	NAME = ZWolls	ten	DESIGNED - DAG	REVISED - DAG 1-1-14						DISTRICT ONE		F.A.U. RTE.	SECTION	COUNTY
D161A27-021-details.dgn		DRAWN - BCK REVISED -					LLINOIS					12-00058-00-TL	соок	
PLOT	SCALE = 1:20		CHECKED - DAD	REVISED -	DEPART	MENT	OF T	RANSPORTATION		STANDARD TRAFFIC SIGNAL DESIGN DETAILS			TS-05	CONTRAC
PLOT (DATE = 2/18/2	014	DATE - 10-28-09	REVISED -					SCALE: NONE	SHEET 5 OF 7 SHEETS STA.	TO STA.		ILLINOIS FE	D. AID PROJECT



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

HANDHOLE WITH MINIMUM CONDUIT DEPTH (NOT TO SCALE)





TO TYPE "C" FOUNDATION

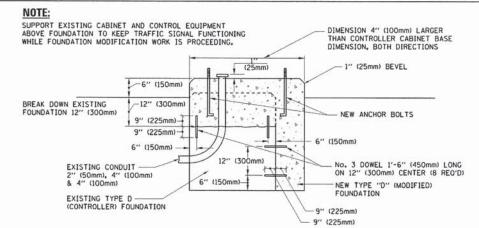
(NOT TO SCALE)

DRAIN PORT 0.25"-0.23"(5mm) MATERIAL: -0.31"(8mm) - ASTM A36 STEEL - ASTM A-123 HOT DIPPED GALVANIZED

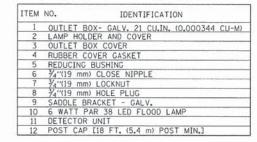
Α	В	С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

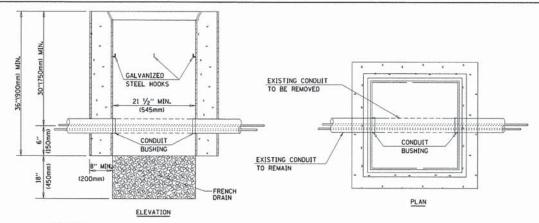
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD.
 THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- 2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- 3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM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



MODIFY EXISTING TYPE "D" FOUNDATION



- 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. EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



SCALE: NONE

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

HANDHOLE TO INTERCEPT EXISTING CONDUIT

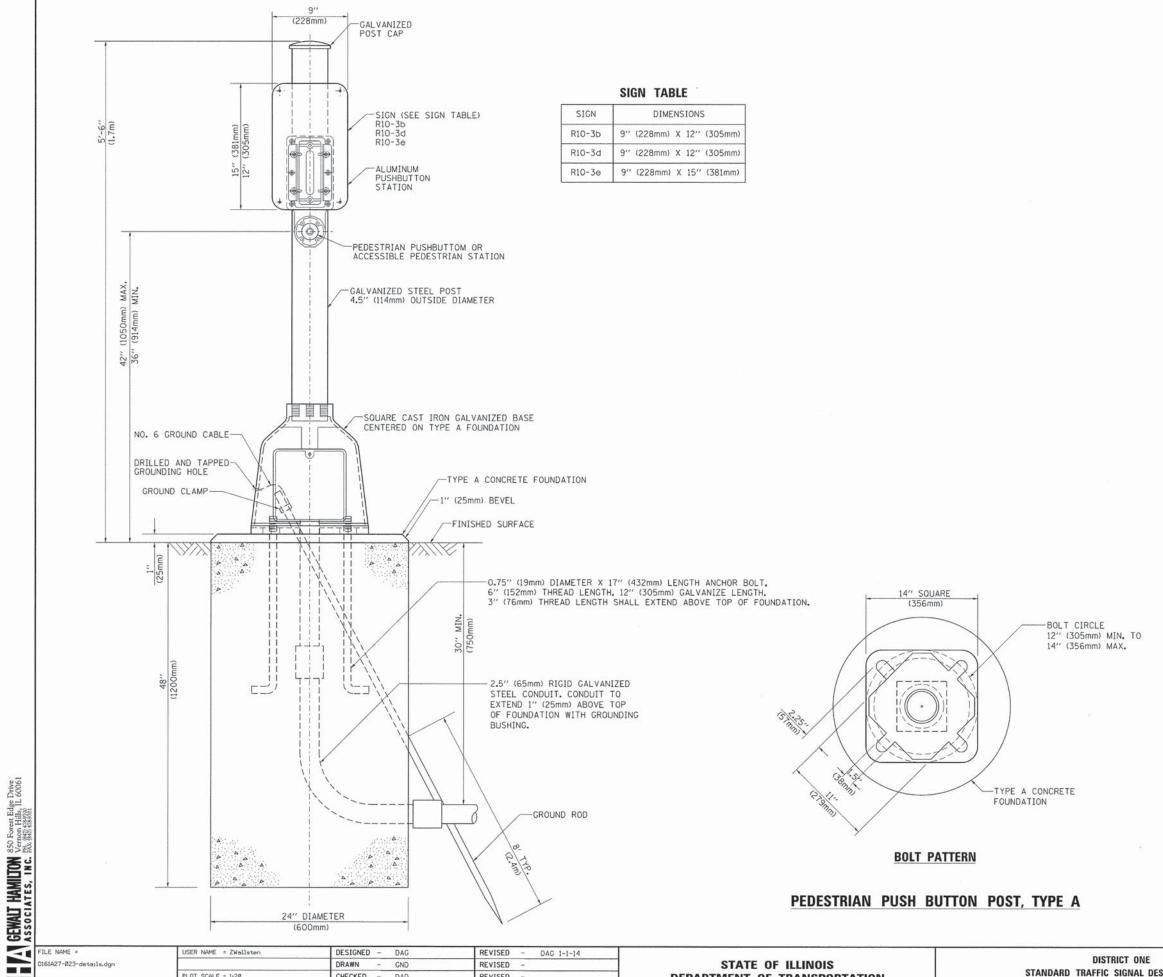
GHA #9232.407

FILE NAME =	USER NAME = ZWallsten	DESIGNED - DAD	REVISED - DAG 1-1-14
D161A27-022-details.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 1:20	CHECKED - DAD	REVISED -
Default	PLOT DATE = 2/18/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.			
		DETAILS	2798	12-00058-00-TL	MCHENRY	41	22			
STANDARD	Ins	IFFIC	SIGNAL	DESIGN	DETAILS		TS-05	CONTRAC	T NO.	61A27
HEET 6	OF	7	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

U Forest Edge Drive rnon Hills, IL 60061 G I VI GEWALT HAMILTON SECOND VICES ASSOCIATES, INC. PAGE



GHA #9232.407

GEWALT HAMILTON 850 Forest Edge Drive ASSOCIATES, INC. Pt. 图形等形的

G

PLOT SCALE = 1:20

PLOT DATE = 2/18/2014

CHECKED - DAD

10/1/2012

REVISED

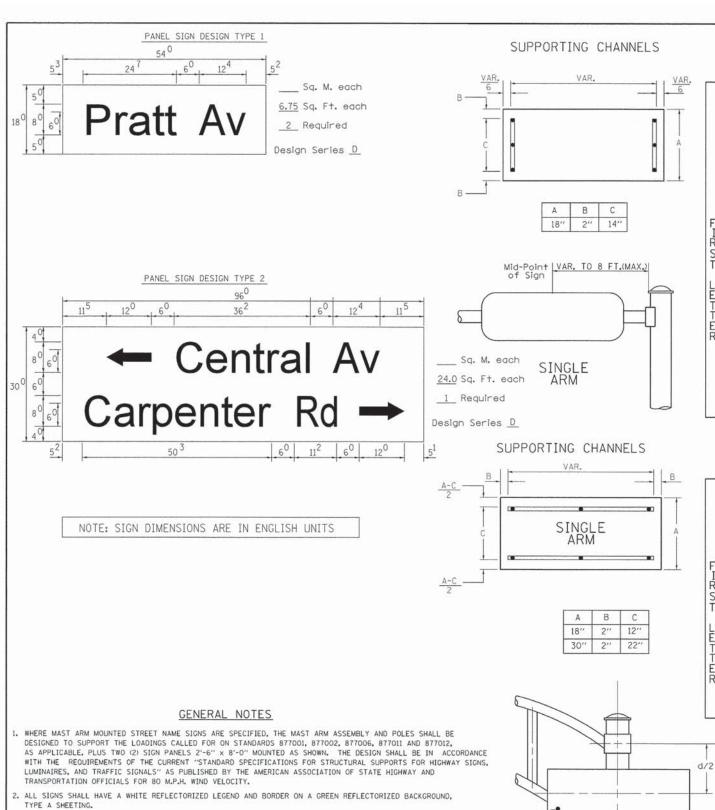
REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET 7 OF 7 SHEETS STA.

SCALE: NONE

COUNTY TOTAL SHEETS NO. SECTION COOK 41 23 2798 12-00058-00-TL TS-05 CONTRACT NO. 61A27 ILLINOIS FED. AID PROJECT



Upper Case To Lower Case Spacing Chart 8-6 Inch Series "C & D"

SECOND LETTER acde bhikl god mnpru s t SERIES CDCDCDCDCDCD AWX 15 | 12 | 14 | 06 | 10 | 11 | 14 | 06 | 10 15 20 21 14 15 11 12 14 15 12 14 CEG DOQR 05 15 06 10 05 06 06 10 06 10 06 14 HIMN 21 22 24 20 21 14 15 16 17 16 17 06 05 06 15 06 10 05 06 05 07 05 06 06 10 11 12

> Lower Case To Lower Case Spacing Chart 6 Inch Series "C & D"

							SE	100	ND	LET	TER	?					
	=		d e	m n t	ikl	f	w		i	s	†	v	У	>	<	2	z
	SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
FIRST	adhgij Imnqu	16	17	22	24	16	17	12	14	14	15	14	15	16	17	16	17
3	bfkops	12	14	16	17	11	12	05	06	11	12	11	12	12	14	12	14
Γ	се	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
=	r	06	10	12	14	06	10	03	03	05	06	05	06	06	10	06	10
Ī	† z	12	14	16	17	12	14	06	10	11	12	11	12	12	14	12	14
	v у	11	12	14	15	11	12	05	06	06	10	06	10	11	12	11	12
`	w	11	12	14	15	11	12	05	06	11	12	11	12	11	12	12	14
	×	12	14	16	17	11	12	05	06	11	12	11	12	11	12	12	14

Number To Number Spacing Chart 8 Inch Series "C & D"

									SE	CO	ND	NL	JMB	ER							
		()		1	2	2		3	4	4	į	5	(ŝ		7	8	3	(9
	SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
	0 9	16	17	16	17	14	1 ⁵	12	14	14	1 ⁵	14	1 ⁵	16	17	12	14	16	17	16	17
	1	2 ⁰	21	20	21	2 ⁰	21	16	17	14	15	20	21	20	21	14	15	20	21	20	21
	2 3 4	14	15	14	15	14	15	12	14	12	14	14	1 ⁵	14	1 ⁵	11	12	16	17	14	15
	5	14	1 ⁵	14	1 ⁵	14	1 ⁵	11	12	11	12	14	1 ⁵	14	1 ⁵	11	12	14	1 ⁵	14	15
	6	16	17	14	1 ⁵	14	15	12	1 ⁵	12	14	14	1 ⁵	14	1 ⁵	11	12	14	15	14	15
	7	12	14	12	14	14	15	12	1 ⁵	05	06	12	14	14	1 ⁵	11	12	14	1 ⁵	12	14
?	8	16	17	16	17	14	15	12	15	12	14	14	1 ⁵	16	17	12	14	16	17	14	15

SCALE: NONE

UPPER AND LOWER CASE LETTER WIDTHS

EXAMPLE, 2^{3} DENOTES $\frac{3}{8}$

L E T E R S		UPPER ETTERS		H UPPER LETTERS	E T E R S	6 INCH LOWER CASE LETTERS		
T E	SEF	RIES	SEI	RIES	T _E	SE	RIES	
R	С	D	С	D	R	С	D	
A	36	50	5 0	6 5	a	35	42	
В	32	40	4 3	5 ³	ь	35	42	
С	32	40	43	5 3	С	35	41	
D	32	40	4 3	53	d	35	42	
E	30	35	40	47	е	35	42	
F	30	35	40	47	f	2 3	26	
G	32	40	43	5 3	9	3 5	42	
н	32	40	43	53	h	35	42	
I	07	07	11	12	i	11	1 1	
J	30	36	40	50	j	20	22	
К	32	41	43	5 4	k	35	42	
L	3 0	35	40	47	1	11	11	
М	3 7	45	51	61	m	60	70	
N	32	40	43	5 3	n	35	42	
0	34	42	4 5	55	0	36	43	
Р	32	40	4 3	5 3	Р	35	42	
0	34	42	45	55	q	35	42	
R	32	40	4 3	5 3	r	26	32	
S	32	40	43	53	s	36	42	
Т	30	35	40	47	+	27	32	
U	32	40	4 3	53	u	35	42	
v	35	44	47	60	v	42	47	
w	44	52	60	70	w	55	64	
x	3 4	40	45	53	×	44	51	
Y	36	50	5 0	66	У	46	53	
Z	3 2	40	43	5 3	z	36	43	

Nu. L	6 INCH	SERIES	8 INCH	SERIES
Nu _{MBER}	С	D	С	D
1	12	14	15	20
2	32	40	43	53
3	32	40	43	5 3
4	35	43	47	57
5	32	40	43	53
6	32	40	43	53
7	32	40	4 3	53
8	32	40	4 3	53
9	32	40	43	53
0	34	42	45	55

DI	JAL		- 1	
Α	RM			
EL	FRAMING	SYSTEM	L	

ARM SIGNFIX ALUMINUM CHANNEL FRA

Secure Sign to Mast Arm

			shall be used, see Note
FILE NAME =	USER NAME = ZWallsten	DESIGNED - DAG/BCK	REVISED - DAG 10/28/09
161A27-024-deteils.dgn		DRAWN - BCK	REVISED - LP 01/01/14
	PLOT SCALE = 1:20	CHECKED - DAG/DAD	REVISED -
Default	PLOT DATE - 2/19/2014	DATE 07.15.00	DEVICED

3. THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED

5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND

CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND

* WESTERN REMAC INC.

WOODRIDGE, IL.

4. ALL BORDERS SHALL BE 34" WIDE AND CORNER RADIUS SHALL BE 2-1/4 ".

PART *HPN053 (MED. CHANNEL)

1/4" x 14 x 1" H.W.H. #3

COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

* J.O. HERBERT CO.

PARTS LISTING: SIGN CHANNEL

SIGN SCREWS

GEWALT

₫

C

MIDLOTHIAN, VA.

POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:

SELF TAPPING WITH NEOPRENE WASHER PART #HPN034 (UNIVERSAL)

> STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE	F.A.U. RTE.
MAST ARM MOUNTED STREET NAME SIGNS	2798
SHEET 1 OF 1 SHEETS STA TO STA	

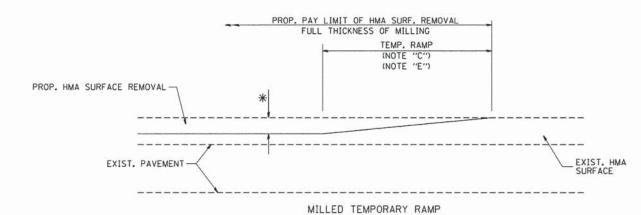
COUNTY TOTAL SHEE NO. COOK 41 24 CONTRACT NO. 61A27

SECTION

12-00058-00-TL

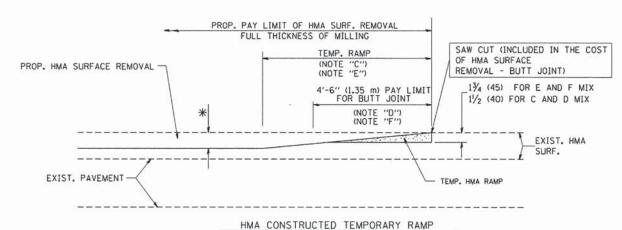
TS-02

GHA #9232.40



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

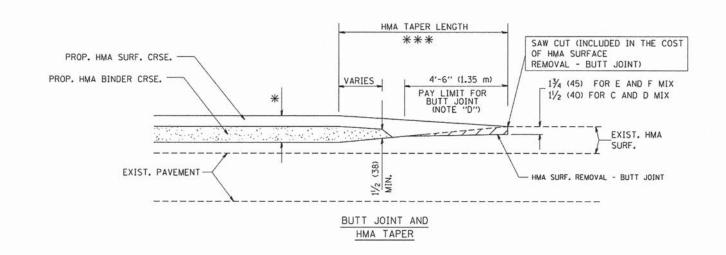
OPTION 1



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



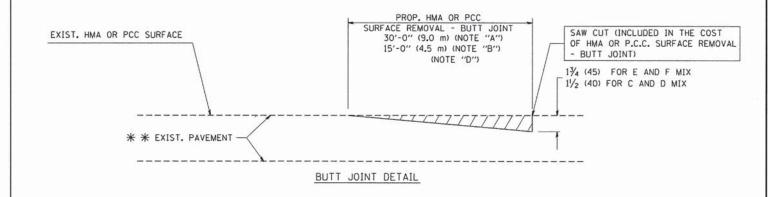
TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

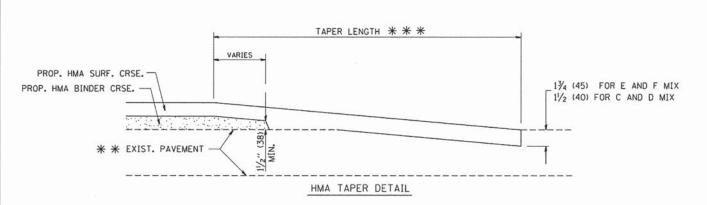
USER NAME = gaglianobt FILE NAME = DESIGNED - M. DE YONG REVISED - R. SHAH 10-25-94 \diststd\22x34\bd32.dgn DRAWN REVISED - A. ABBAS 03-21-97 REVISED - M. GOMEZ 04-06-01 PLOT SCALE = 50.0000 ' / IN. CHECKED DATE REVISED R. BORO 01-01-07

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND HMA TAPER DETAILS SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. OTHERWISE SHOWN. TOTAL SHEET NO. SECTION COUNTY 12-00058-00-TL COOK 41 25

CONTRACT #: 61A27





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

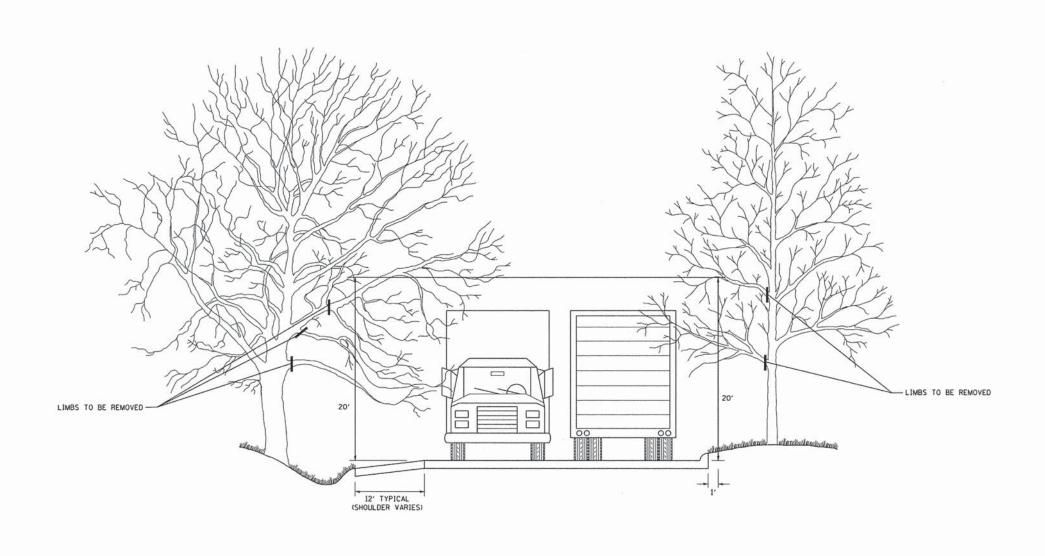
- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-O"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

BASIS OF PAYMENT:

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS

BD400-05 BD32

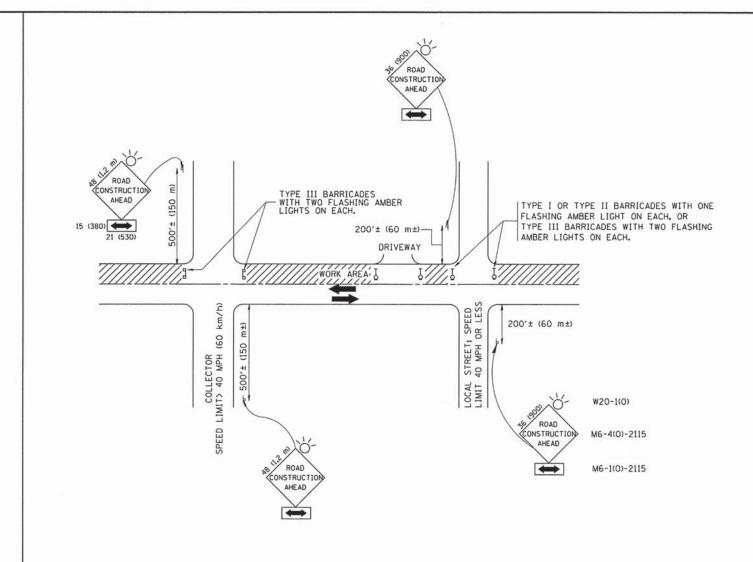


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	PLOT SCALE = 50,000 ' / IN.	CHECKED -	REVISED -
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FILE NAME #	USER NAME = gaglianobt	DESIGNED -	REVISED - R. BORO 10-31-06

	_ 0.	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

SCALE: NONE

	PRUNING FOR SAFETY AND		FAU RTE	FAU SECTION		TOTAL SHEETS	SHEET NO.		
	EQUIPMENT CLEARANCE			2798 12-00058-00-TL		COOK 41		26	
EQUIPMENT CLEARANGE				BM-20	CONTRACT	# 61/	A27		
	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	-FED. ROA	DIST. NO. 1 ILLINOIS FED.	AID PROJECT		



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- O) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- O) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500° (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

SCALE: NONE

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

FILE NAME = USER NAME = goglianobt DESIGNED - LHA REVISED - J. OBERLE 10-18-95

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DRAWN - REVISED - A. HOUSEH 03-06-96

PLOT SCALE = 50.000 '/ IN. CHECKED - REVISED - A. HOUSEH 10-15-96

FILE NAME = 9232.407-DT1.dwg

PLOT DATE = 1/4/2008

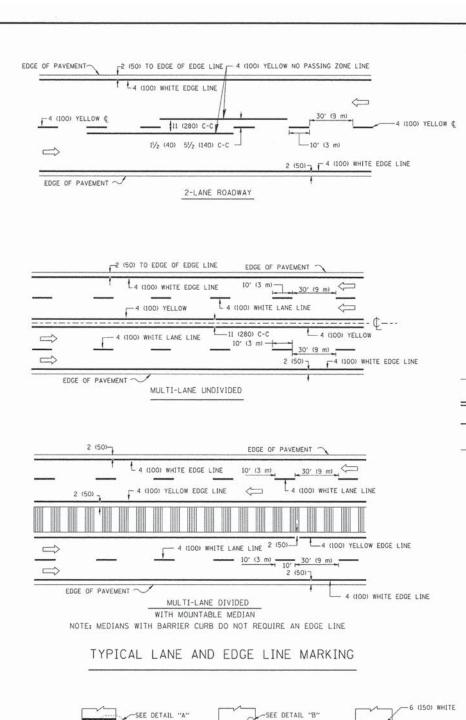
DATE - 06-89

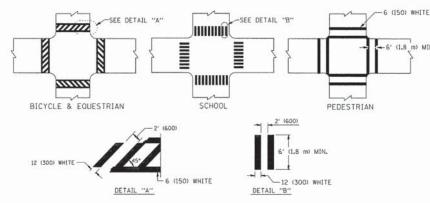
REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

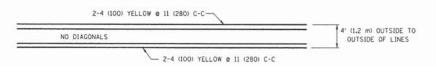
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SHEET NO. 1 OF 1 SHEETS STA.

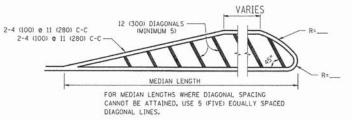




TYPICAL CROSSWALK MARKING

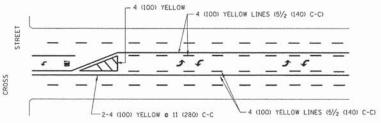


4' (1.2 m) WIDE MEDIANS ONLY

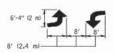


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C (30MPH (50 km/h) T0 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

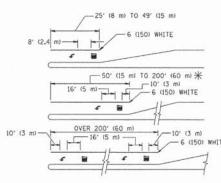


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

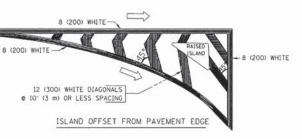


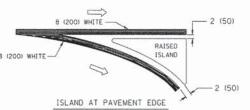
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SO. FT. (1.5 m²) (N) AREA = 20.8 SO. FT. (1.9 m²)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING





TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
WHITE-RIGHT YELLOW: EDGE LINES ARE		OUTLINE MOUNTABLE MEDIANS IN YELLOW: EGGE LINES ARE NOT USED NEXT TO BARRIER CURB		
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 & 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1,2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1,2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) T0 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m²) EACH "X"=54.0 SO. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))

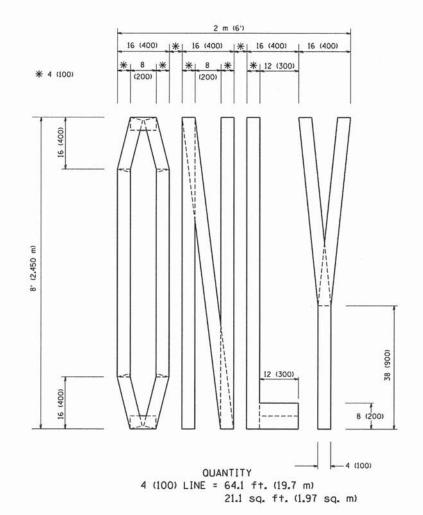
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

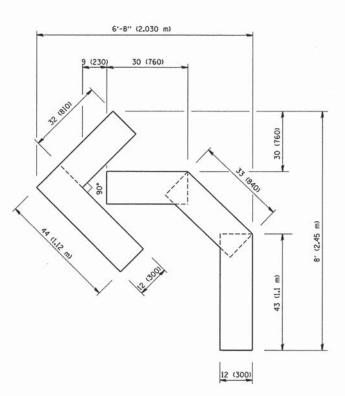
All dimensions are in inches (millimeters) unless otherwise shown,

FILE NAME =	USER NAME = drivekosgn	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94
c:\pw_work\pwidot\drivakosgn\d0108315	\tcl3.dgn	DRAWN -	REVISED -C. JUCIUS 09-09-09
I.	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -
FILE NAME = 9232.407-DT1.dwg	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

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DEPARTMENT	OF	TRANSPORTATION

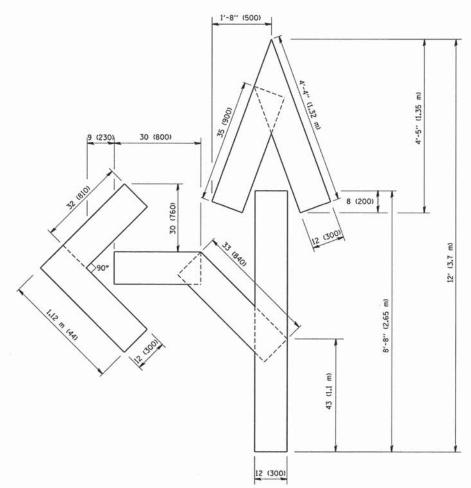
	DISTRIC	T ONE		FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TYPICAL PAVEMI	NT MARKINGS		2798	12-00058-00-TL	COOK	41	28
	ITTICAL PACINI	ati manando		_	TC-13	CONTRACT	#: 61.	A27
SCALE: NONE	SHEET NO. 1 OF 1 SHEE	TS STA.	TO STA.	-FED. ROA	D DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		





OUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)

SCALE: NONE



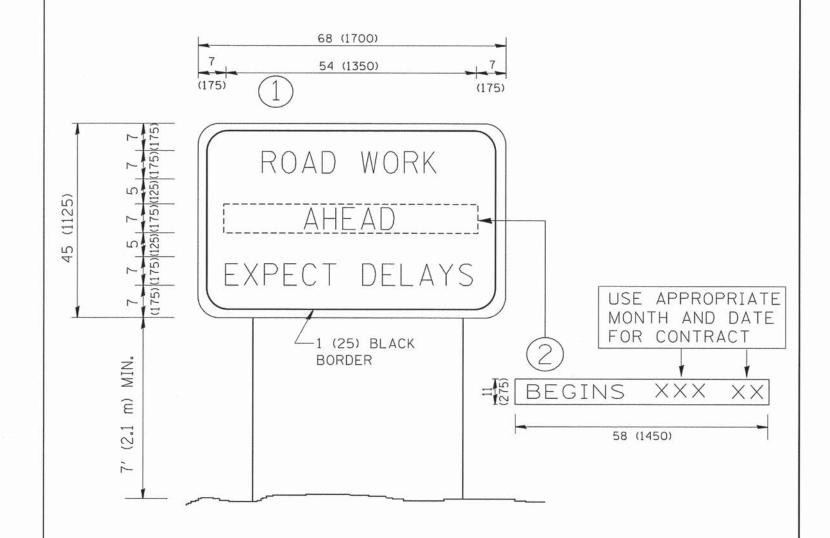
OUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

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

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
W:\d:ststd\22×34\tc16.dgn		DRAWN -	REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
FILE NAME = 9232,407-DT1.dwg	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

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DEPARTMENT	OF	TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING		FAU SECTION		COUNTY	TOTAL SHEETS	SHEET NO.			
		2798	12-00058-00-TL	COOK	41	29			
		- TC-16		CONTRACT #: 61A		427			
SHEET NO. 1	OF 1	SHEETS	STA.	TO STA	FED DOA	O DIST NO 1 HUMOIS SED	ND DDO IFOT		



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.

SCALE: NONE

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

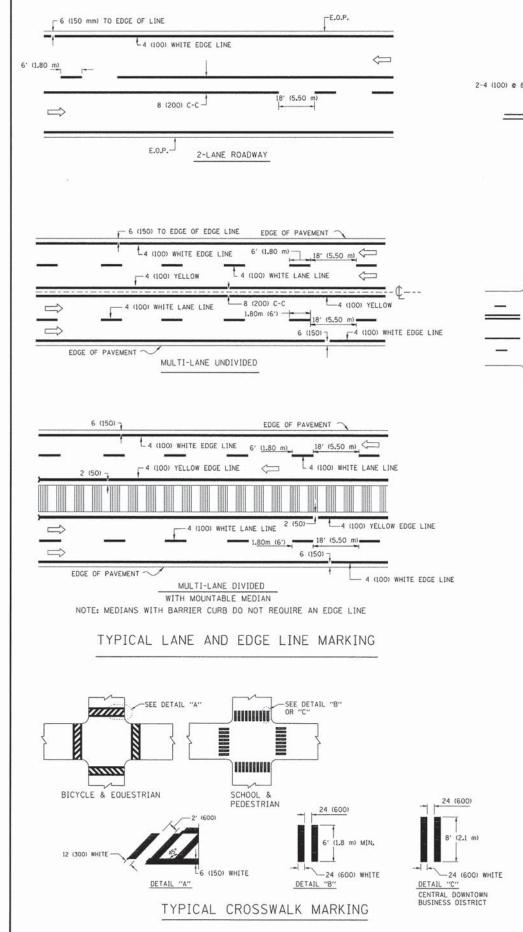
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R, MIRS 09-15-97
W:\d:ststd\22x34\tc22,dgn		DRAWN -	REVISED - R. MIRS 12-11-97
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FILE NAME = 9232.407-DT1.dwg	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

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DEPARTMENT	0F	TRANSPORTATION

	AR	TERIAL RO	FAU RTE	SECTION		
INFORMATION SIGN					2798	12-00058-0
INFORMATION SIGN				_	TC-22	
EET NO. 1	OF 1	SHEETS	STA.	TO STA.	-FFD. ROA	D DIST. NO. 1 IIIII

TE.	SECTION	SECTION		TOTAL SHEETS	SHEET NO.	
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TC-22			CONTRACT #: 61A27			
0 00	AD DICT NO 1 HILL	ioic feen	ND DOO FOT			

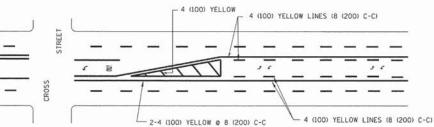




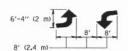
*FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

* DIAGONAL LINE SPACING: 20' (6.1 m) C-C

PAINTED MEDIANS

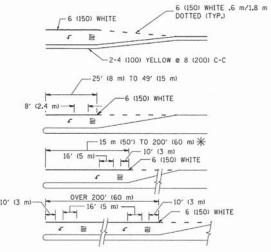


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS,



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

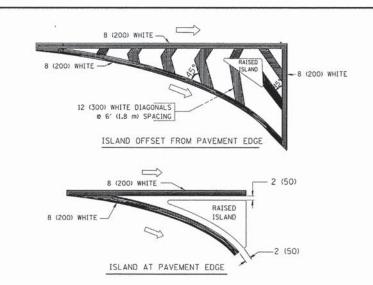


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.8 SO. FT. (1.47 m²) ONLY AREA = 22.9 SO. FT. (2.13 m²)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	8 (200) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW	8 (200) C-C
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	6' (1.8 m) LINE WITH 18' (5.50 m) SPACE FOR SKIP-DASH; 8 (200) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4 m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL & PEDESTRIAN)	12 (300) e 45° 24 (600) e 90°	SOLID SOLID	WHITE WHITE	2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	8 (200) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 20' (6.1 m) (LESS THAN 30 MPH (50 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO, FT. (0.33m²) EACH "X"=54.0 SO, FT. (5.0 m²)

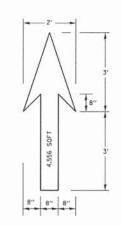
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STREET MARKING STANDARDS, PRINTED BY CITY OF CHICAGO, DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC.

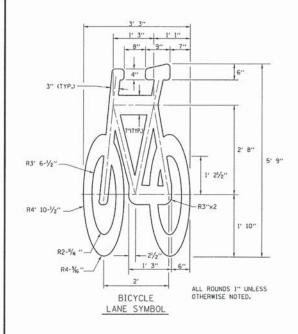
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME :	USER NAME = drivakosgn	DESIGNED -	REVISED -T. RAMMACHER 12-07-00
c:\pw_work\pwidot\drivakosgn\d0108315\t	24.dgn	DRAWN -	REVISED - K. ENG 02-28-12
	PLDT SCALE = 50.000 ' / in.	CHECKED -	REVISED -
FILE NAME = 9232.407-DT1.dwg	PLOT DATE = 3/1/2012	DATE -	REVISED -

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DEPARTMENT	OF	TRANSPORTATION

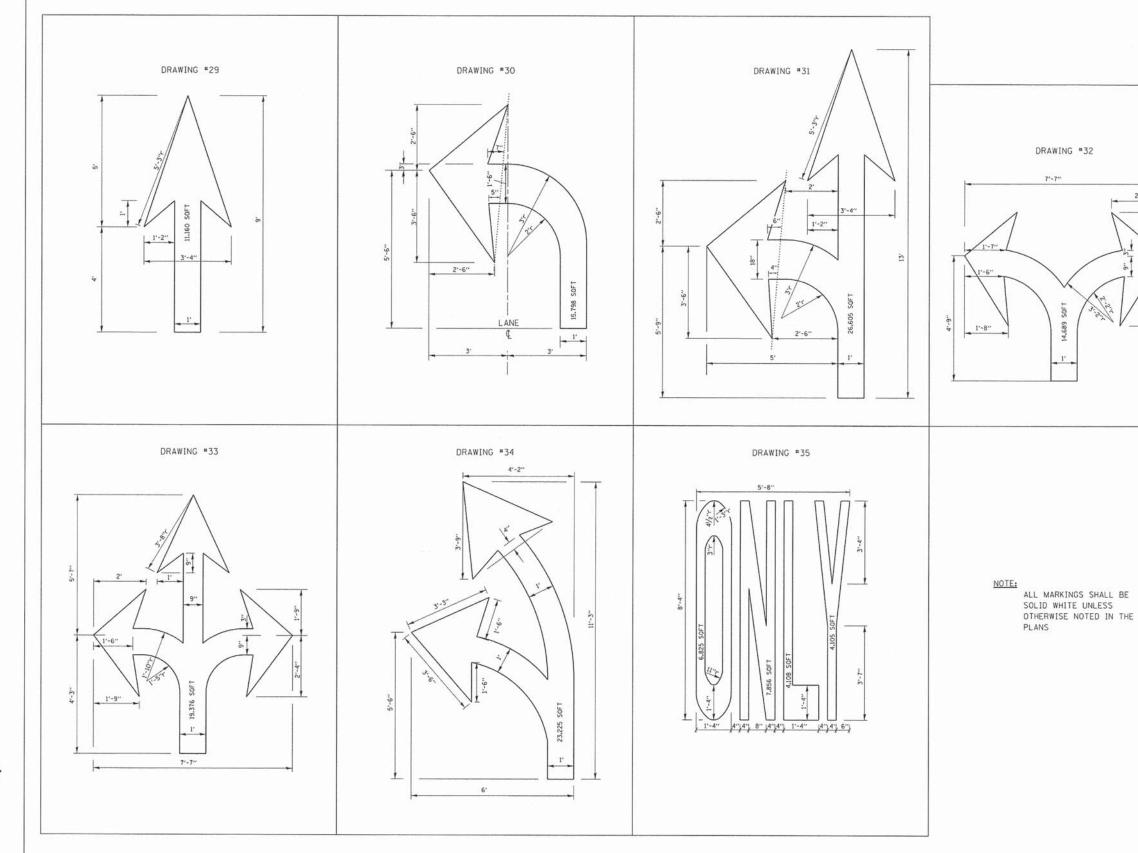
CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS					RTE SECTION		COUNTY	SHEETS	SHEET NO.
					2798	12-00058-00-TL	COOK	41	31
	ITPICAL PAVEIVIENT WARKINGS				-	TC-24	CONTRACT #: 61A27		A27
SCALE: NONE	SHEET NO. 1 OF	3 SHEETS	STA.	TO STA.	-FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





- NOTE:
 1.) FOR BIKE LANE SYMBOLS ONLY, USE PRE-FORMED THERMOPLASTIC WITH A MINIMUM THICKNESS OF 90 MILS, MINIMUM SKID RESISTANCE VALUE OF 60 BPN, & A MINIMUM INDEX OF REFRACTION OF 1.50.
- 2.) THE RESIDENT ENGINEER SHALL CONTACT MR. BEN GOMBERG AT 312-744-8093 AT LEAST ONE CALENDAR WEEK PRIOR TO INSTALLING BIKE LANE SYMBOLS.

TYPICAL BIKE LANE SYMBOLS DRAWING #28



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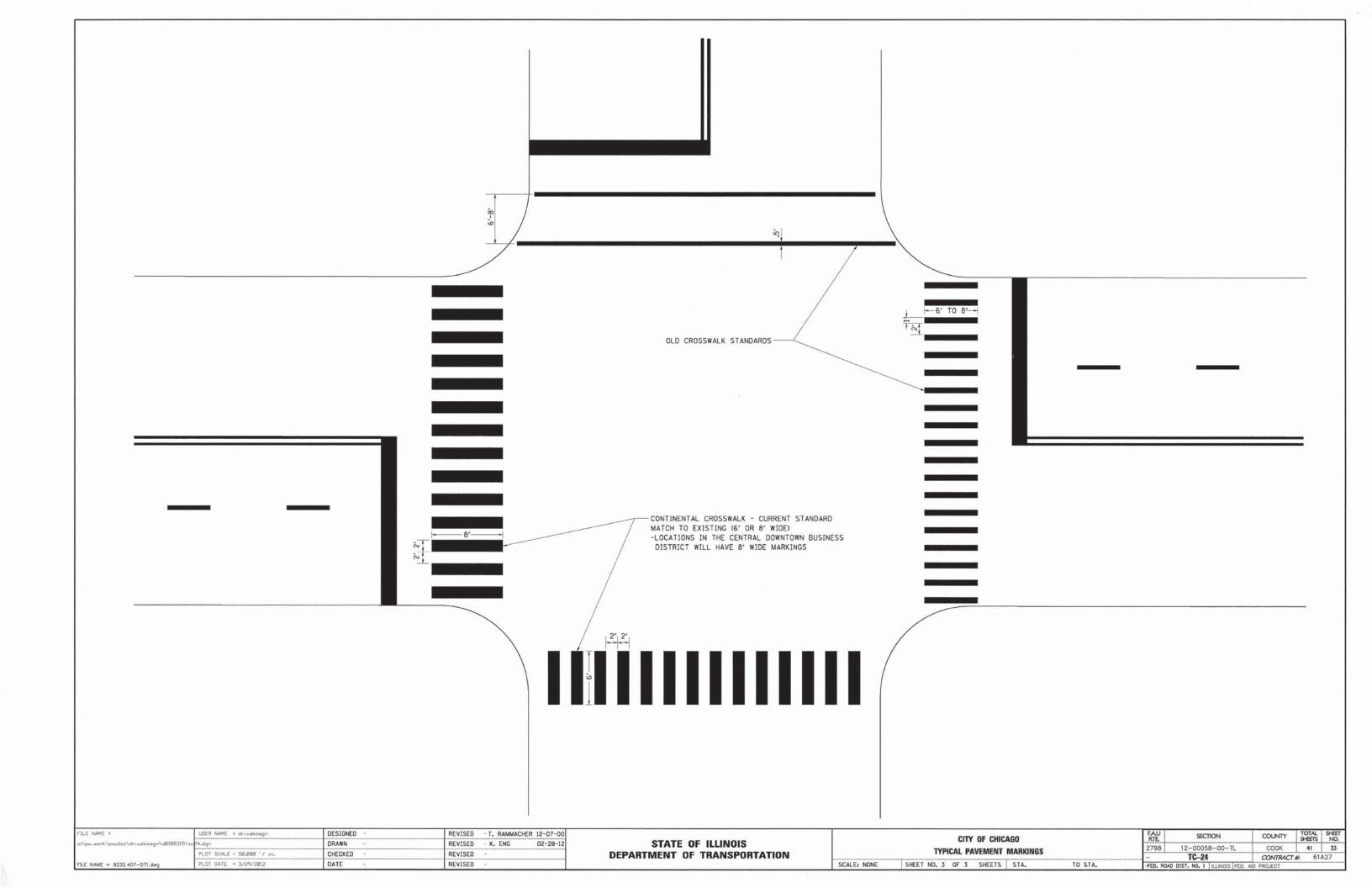
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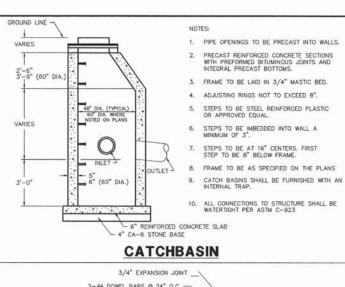
	TYP	ICAL P	AVEMENT	MARKINGS		
SHEET	NO 2	OF 3	SHEETS	CTA	TO STA	

SCALE: NONE

FAU RTE				COUNTY	TOTAL	SHEET NO.
2798			L	COOK	41	32
-	TC-24			CONTRACT	# 61	A27
-FED. ROA	D DIST. NO. 1	ILLINOIS	FED. AID	PROJECT		

FAU RTE 2798

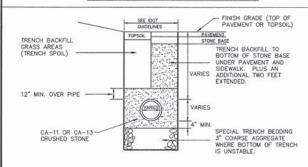




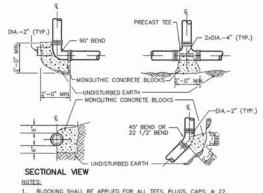
2-#4 DOWEL BARS @ 24" O.C. 5" PCC SIDEWALK -* * * * * * * * * * * * 95% MODIFIED PROCTOR COMPACTION 4" OF 1/4"-3/4" CRUSHED STONE CA-6

- SET 3/4" EXPANSION JOINTS AT POINTS ABUTTING CURB OR PAVEMENT AND AT 45" MAX, INTERVALS.
- CONTROL JOINTS SHALL BE 1/8" TO 1/4" WIDE AND 1/4 OF THE SIDEWALK THICKNESS DEEP. THE EDGE OF THE CONTROL JOINTS SHALL BE GIVEN A 1/4" RADIUS.
- 4. SIDEWALK TO BE 6" THICK THROUGH DRIVEWAYS

PCC SIDEWALK DETAIL

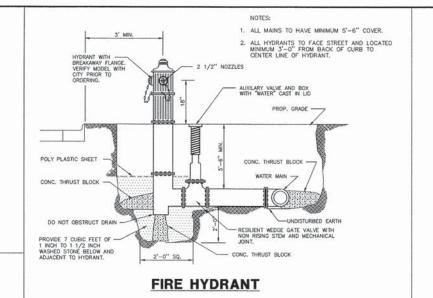


TRENCH DETAIL

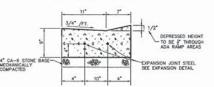


- BLOCKING SHALL BE APPLIED FOR ALL TEES, PLUGS, CAPS, & 22 1/2" OR MORE BENDS.
- THRUST BLOCKS TO BE CLASS "X" CONCRETE,
- BEARING AREAS OF UNDISTURBED EARTH SHALL HAVE A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 P.S.F.
- 4. BEARING AREA OF SOIL BASED ON 65 P.S.I. WATERMAIN PRESSURE

WATER MAIN THRUST BLOCKING



REGULAR SECTION



DEPRESSED SECTION

NOTE:

- SET EXPANSION JOINTS AT ALL PC'S, PT'S, FIVE FEET ON EITHER SIDE OF ANY FRAMES, AND AT 45' MAX. INTERVALS.
- SAW CUT CONTRACTION JOINTS FULL FACE AND TOP, AT LEAST 2 INCHES IN DEPTH AND AT 15' MAXIMUM INTERVALS WITHIN 24 HOURS OF POURING.
- 3. TWO COATS CURING COMPOUND REQUIRED.

COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL)

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

MWRD TYPICAL GENERAL NOTES

- THE MWRD LOCAL SEWER SYSTEMS SECTIONS FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055).
- 2. ALL ELEVATIONS ARE BASED ON NAVD 88 DATUM.
- 3. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM. (NONE PROPOSED)
- ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM. (NONE PROPOSED)
- ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINT IN COMBINED SEWER AREA) SHALL CONFORM TO:

PIPE MATERIAL SPEC.	JOINT SPEC.	PIPE MATERIAL SPEC.	JOINT SPEC.
VITRIFIED CLAY PIPE VCP C-700 VCP (NO-BELL) C-700	C-425	ABS COMPOSITE/TRUSS PIPE 8"-15" DIA. ABS D-2751	D-2751
JOINT COLLAR	C-425 D-1784	PYC GRAVITY SEWER PIPE 6"-15" DIA, SDR 26 D-3034	D-3212 OR D-2855
CONCRETE PIPE C-14 RCP C-76	C-443 C-443	18"-27" DIA. F/DY=46 F-679	D-3212 OR D-2855
ACP C-428	D-1869	CISP A-74	C-564
ABS SEWER PIPE 8"-15" DIA, ABS D-2680	D-2680	DIP. A-21.51	A-21.11

- 6. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE \$\frac{1}{2}\] TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO \$\frac{1}{2}\] THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIALS SHALL BE CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.
- "BAND SEAL" OR SIMILAR FLEXIBLE—TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR MATERIALS.
- WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:

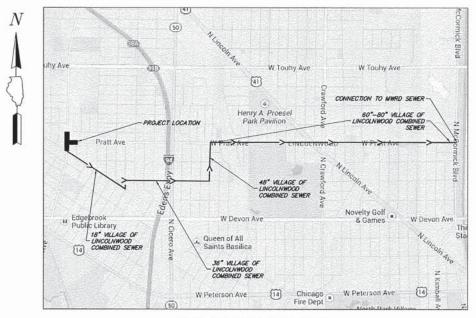
 A. CIRCULAR SAW—CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR)

 AND PROPER INSTALLATION OF HUB—WYE SADDLE OR HUB—TEE SADDLE.

 B. REMOVE AN ENTRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.

 C. WITH A WYE OR TEE BRANCH SECTION.

 C. WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
- 9. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPERATE TERROCH, KEEPING A MINIMUM 18" VERTICAL SEPERATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPERATION. IE EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED ABOVE CAN NOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATERMAIN, THE SEWER SHALL BE CONSTRUCTED TO WATERMAIN STANDARDS.
- ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
- ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
- WATERTIGHT FLEXIBLE RUBBER CONNECTORS, CONFORMING TO A.S.T.M. C-923 WITH STAINLESS STEEL BAND, SHALL BE PROVIDED FOR SEWER CONNECTIONS WITH GREASE BASIN AND TRIPLE BASIN.
- 13. EXCEPT FOR FOUNDATION/FOOTING DRAINS PROWDED TO PROTECT BUILDINGS, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TO BE TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS OR STORM SEWERS TRIBUTARY TO MAWED SEWERS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED, AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS OR STORM SEWERS TRIBUTARY TO MWRD SEWERS INCLUDING ALL SANITARY, STORM AND COMBINED STRUCTURES.
- ALL ABANDONED SEWERS/FORCE MAINS SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF TWO (2) FEET NON SHRINK CONCRETE/MORTAR PLUGS.



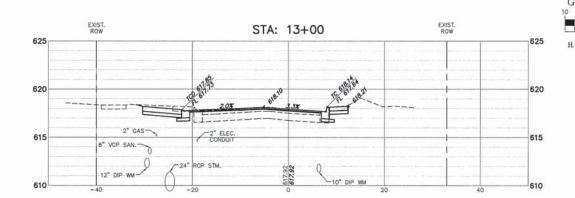
MWRD ROUTING MAP

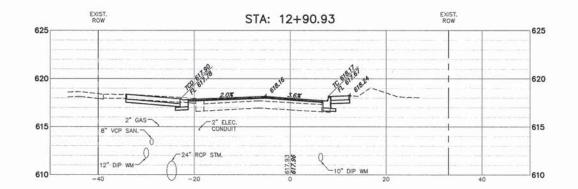
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	PLOT DATE = 1/31/14	DATE	-	1/31/14	REVISED		-

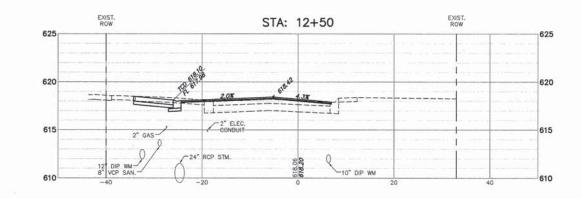
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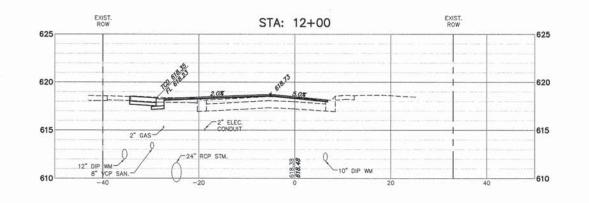
SCALE NONE

۷V	WRD GENERAL NOTE	S AND DETAILS	FAU RTE	SECTION	COUNTY	TOTAL	SHEET NO.
			2798	12-00058-00-TL	COOK	41	34
_			-		CONTRACT	#: 61	A27
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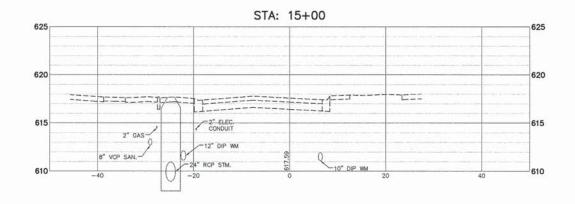
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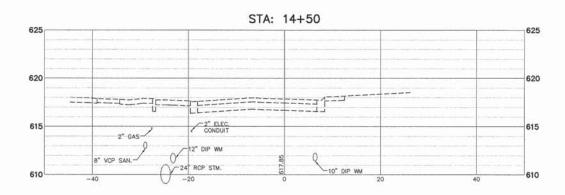
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

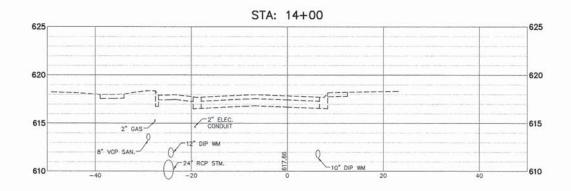
INTI	PRATT A				TIONS ROVEMENTS
SCALE 1"=20'	SHEET NO	- OF -	SHEETS	STA	TO STA.

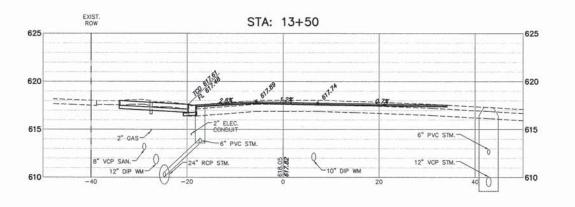
COUNTY TOTAL SHEET NO. SECTION COOK 41 35

CONTRACT #: 61A27 12-00058-00-TL





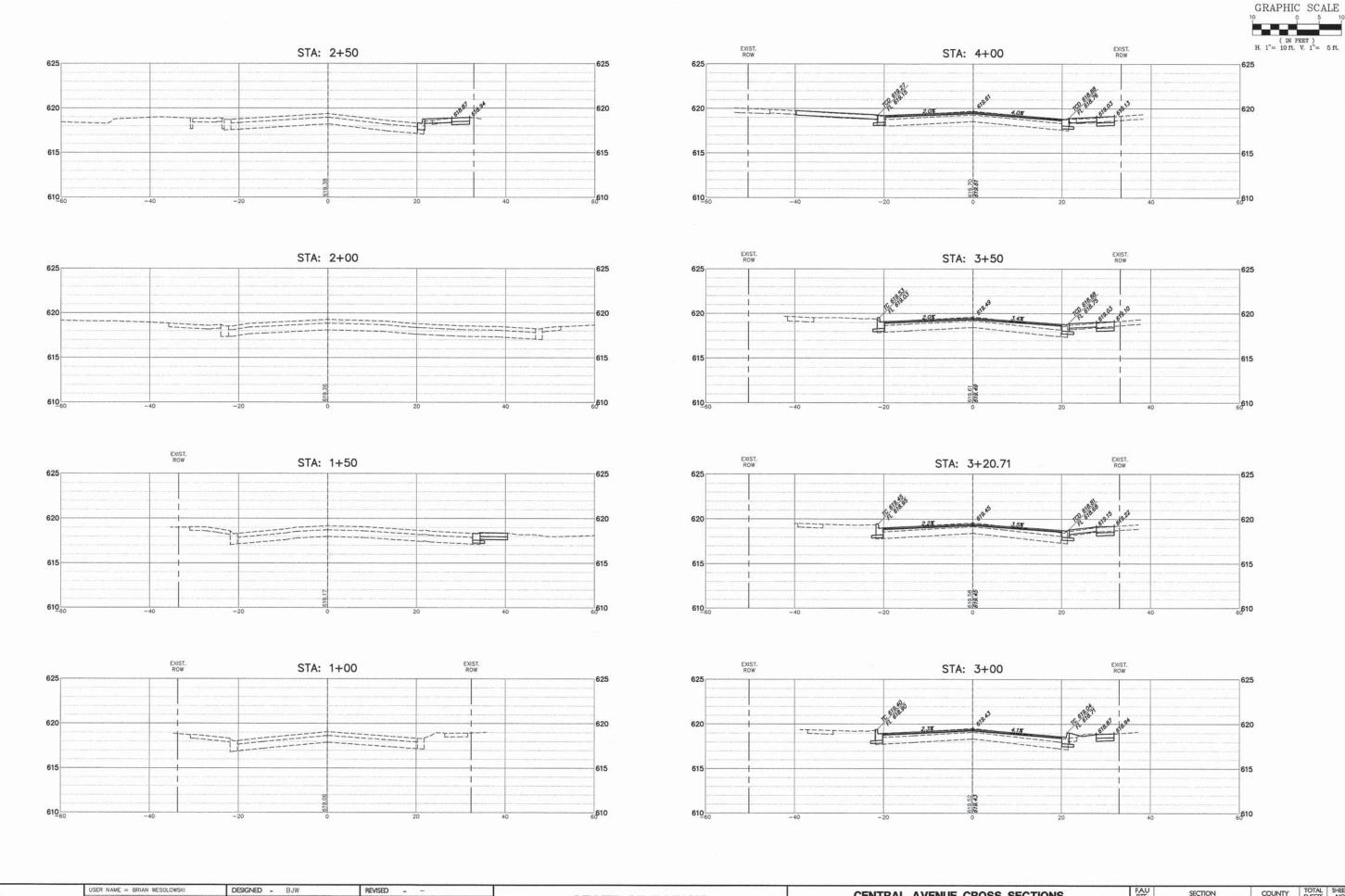




ME =	USER NAME = BRIAN WESOLOWSKI	DESIGNED - BJW	REVISED
7 PR-1.dwg		DRAWN - ZCW	REVISED
	PLOT SCALE = 1"=10"	CHECKED - SDB	REVISED
	PLOT DATE = 1/31/14	DATE - 1/31/14	REVISED

STAT	E O	F ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

	PRATT AVENUE CRO	SS SEC	CTIONS	FAU RTE	SECTION	COUNT
INTE	RSECTION AND SIGN	AI IMPE	ROVEMENTS	2798	12-00058-00-TL	COOK
		~= nvn 1	TOVENIENTO			CONTRA
SCALE 1"=20"	SHEET NO OF - SHEETS	STA.	TO STA	-	ILLINOIS FED.	AID PROJECT



ASSOCIATES, INC. PAR STATES IN STATE

9232.407 PR-1.dwg

DRAWN - ZCW REVISED - -PLOT SCALE = 1"=10" CHECKED - SDB REVISED - -DATE - 1/31/14 REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CENTRAL AVENUE CROSS SECTIONS INTERSECTION AND SIGNAL IMPROVEMENTS SCALE: 1"=20' SHEET NO. - OF - SHEETS STA

COUNTY TOTAL SHEET NO.

COOK 41 37 SECTION 2798 12-00058-00-TL CONTRACT #: 61A27

GEWALT HAMILTON 850 Forest Edge Drive
ASSOCIATES, INC. Pt. (87) 183701

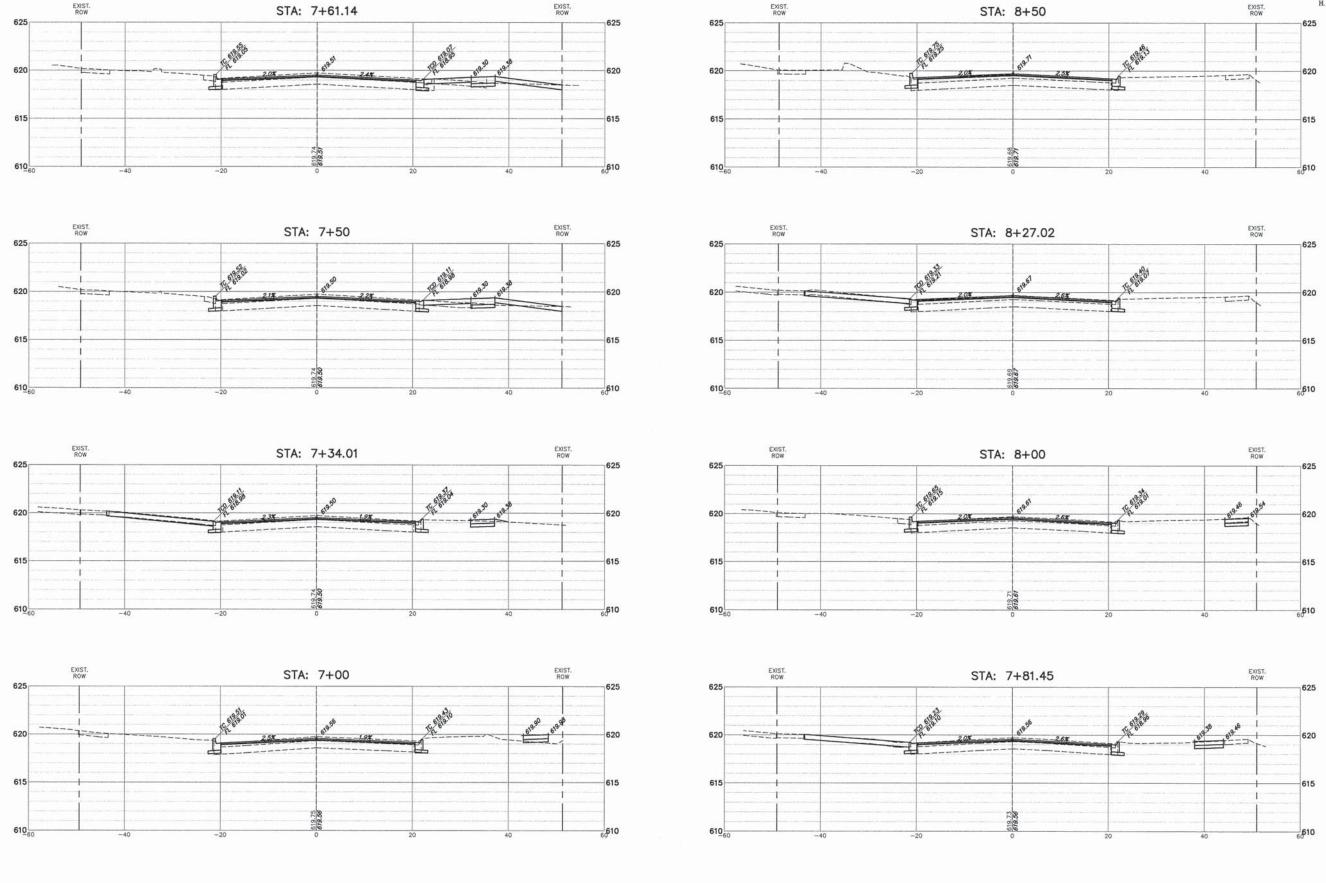
BY CONTRACTOR STATES ASSOCIATES ASSOCI

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CENTRAL AVENUE CROSS SECTIONS
INTERSECTION AND SIGNAL IMPROVEMENTS

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

GRAPHIC SCALE



GEWALT HAMILTON 850 Forest Edge Drive ASSOCIATES, INC. PA. (847) 47857001

= AWEN 3711

= AWEN 3

REVISED - -USER NAME = BRIAN WESOLOWSKI DESIGNED - BJW 9232.407 PR-1.dwg DRAWN - ZCW REVISED - -PLOT SCALE = 1"=10" CHECKED - SDB REVISED - -PLOT DATE = 1/31/14 DATE - 1/31/14 REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	CENTRAL	AVENUE	CROSS SI	ECTIONS
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1"=20'	SHEET NO -	OF - SHEETS	STA	TOSTA

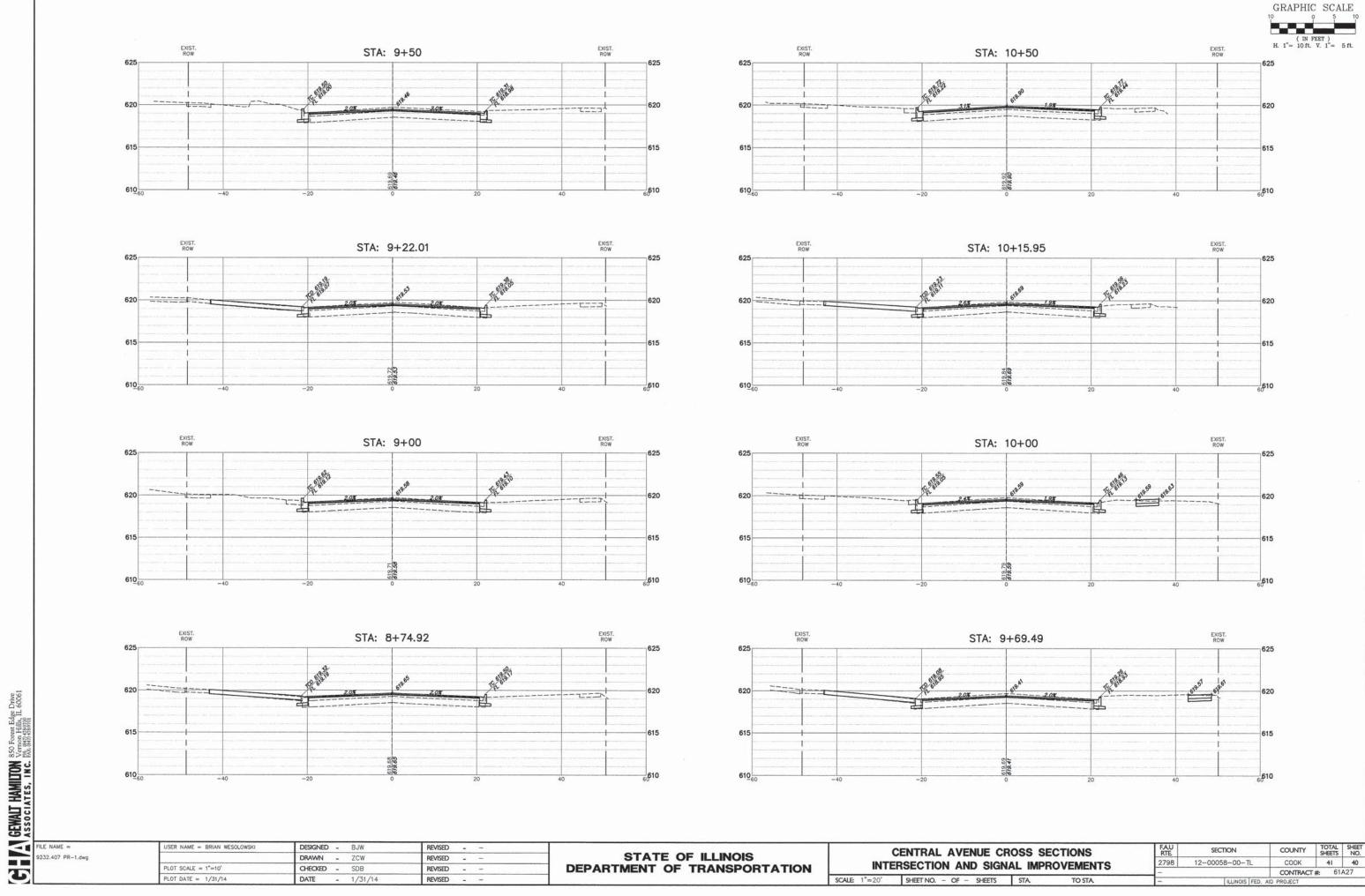
SCALE

 COUNTY
 TOTAL SHEET NO.

 COOK
 41

 39

 CONTRACT #:
 61A27
 SECTION 2798 12-00058-00-TL



PLOT SCALE = 1"=10"

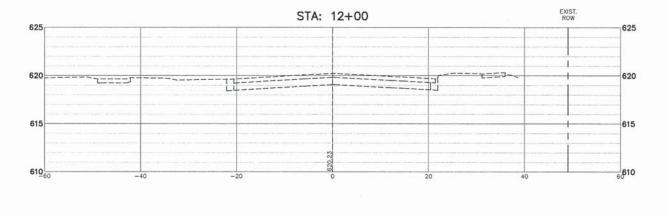
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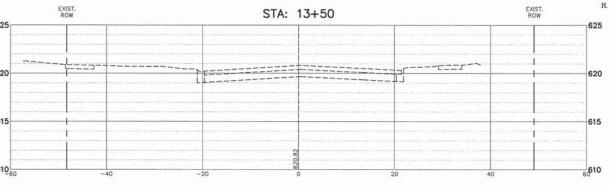
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION DRAWN - ZCW REVISED - -CHECKED - SDB REVISED - -DATE REVISED - -

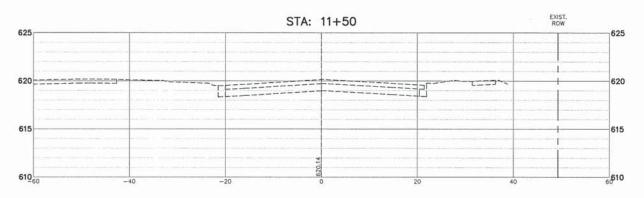
	CENTRAL	AVENUE	CROSS S	ECTIONS
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1"=20'	SHEET NO	OF - SHEE	TS STA.	TO STA.

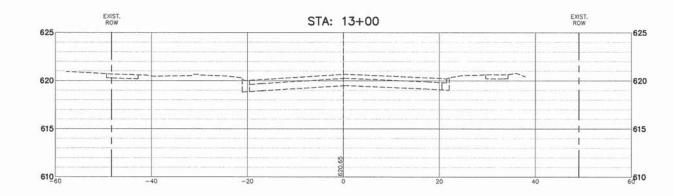
SCALE

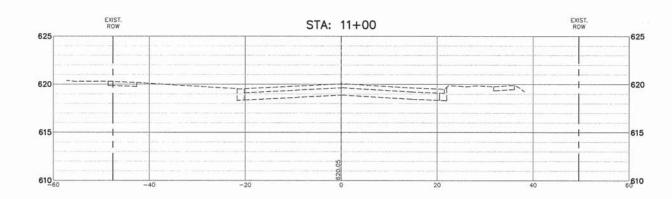
ı	RTE	SECI	ION		COUNTY	SHEETS	NO.
1	2798	12-0005	8-00-1	rL	COOK	41	40
	-				CONTRACT	#: 61	A27
	-		ILLINOIS	FED. AID	PROJECT		

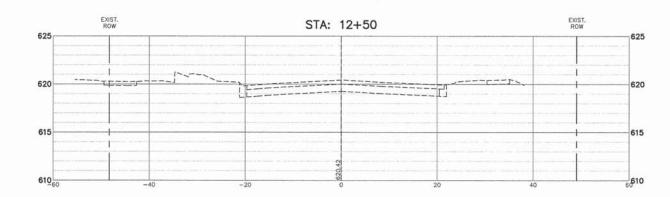


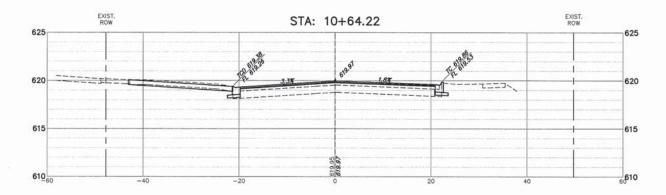












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FILE NAME =	USER NAME = BRIAN WESOLOWSKI	DESIGNED - BJW	REVISED	
9232.407 PR-1.dwg		DRAWN - ZCW	REVISED	
	PLOT SCALE = 1"=10"	CHECKED - SDB	REVISED	
	PLOT DATE = 1/31/14	DATE - 1/31/14	PEASED 18	_

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CENTRAL AVENUE CROSS SECTIONS	FAU RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
ERSECTION AND SIGNAL IMPROVEMENTS	2798	12-00058-00-TL	COOK	41	41
				CONTRACT #: 61A27	
SHEET NO OF - SHEETS STA. TO STA.	-	- ILLINOIS FED. AID PROJECT			

GENAL HAMITON 850 Forest Edge Drive Associates, INC. BX 687 48870 IL 60061

INTE SCALE: 1"=20'