06-12-2020 LETTING ITEM 168

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	1
		CONTRACT NO. 62G02		
	ILLINOIS FED. AID PROJECT			

* 42+2=44 TOTAL SHEETS

D-91-237-18

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

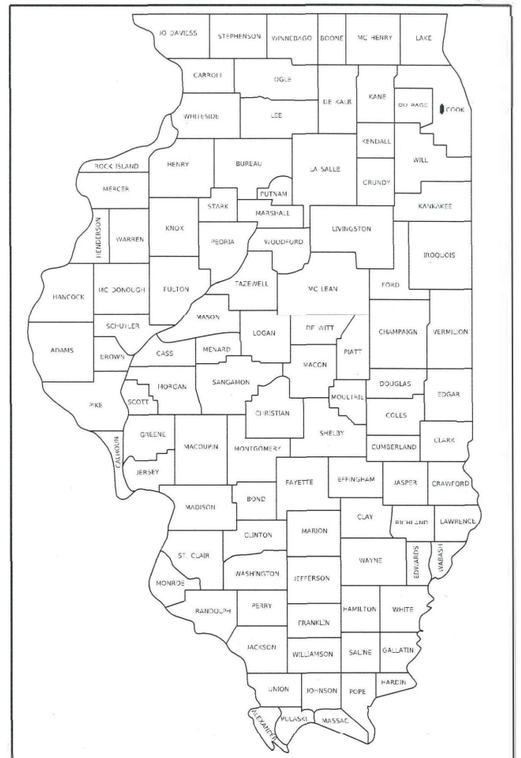
PROPOSED HIGHWAY PLANS

FAP 311 – OGDEN AVE AT AUSTIN BLVD
SECTION: 7–S–2(TS)
PROJECT: HSIP–KS4L(405)
TRAFFIC SIGNAL MODERNIZATION
COOK COUNTY

C–91–102–18

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED
IN THE TOWN OF CICERO



LOCATION OF SECTION INDICATED THUS: –

TRAFFIC DATA

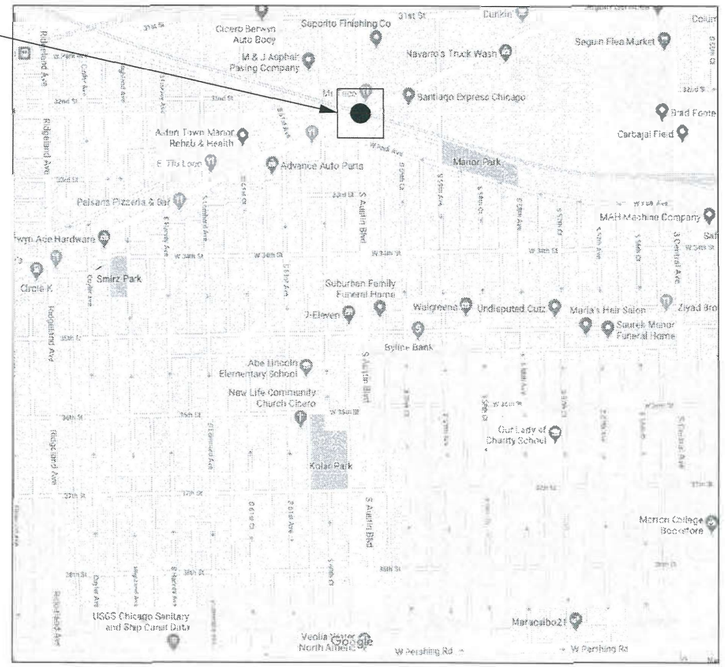
OGDEN AVE

2018 ADT = 20,400
SPEED LIMIT = 30 MPH

AUSTIN BLVD

2018 ADT = 12,300
SPEED LIMIT = 25 MPH

OGDEN AVE AT AUSTIN BLVD



N

T39N

R13E

CICERO TOWNSHIP

100' 200' 300' — 1"= 100'
0 10' 20' 30' — 1"= 10'
0 50' 100' — 1"= 50'
0 50' 100' — 1"= 40'
0 50' 100' — 1"= 30'
0 50' 100' — 1"= 20'

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.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1–800–892–0123
OR 811

PROJECT ENGINEER: IOVAN PLASCENCIA (847) 705–4504
PROJECT MANAGER: LUKASZ POCIECHA (847) 705–4420

CONTRACT NO. 62G02

TRANSMART/EJM ENGINEERING, INC.
RYAN JACOX, P.E., PTOE, RSP1
*062-059141

3-23-2020
DATE

SIGNATURE AND SEAL APPLY TO SHEETS: 21 TO 37

RYAN P. JACOX 062-059141 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

EXPIRATION DATE: 11-30-2021

TRANSMART/EJM ENGINEERING, INC.
CARL GUTOWSKI, P.E.
*062-057132

3-23-2020
DATE:

SIGNATURE AND SEAL APPLY TO SHEETS: 1 TO 20, 38-42

CARL GUTOWSKI 062-057132 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

EXPIRATION DATE: 11-30-2021

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 24 20 20

REGIONAL ENGINEER

May 8, 2020

ENGINEER OF DESIGN AND ENVIRONMENT

May 8, 2020

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV-SEP

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GENERAL NOTES:

1. BEFORE STARTING ANY EXCAVATION , THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FORE FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS. 48 HOUR NOTIFICATION IS REQUIRED.

2. THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV, 72 HOURS IN ADVANCE OF BEGINNING WORK.

3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTH.

4. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES , LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).

5. IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR , THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK. IF THIS CONTRACT DOES NOT REQUIRE THE SERVICE OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR MAY REQUEST ONE FREE LOCATE FOR EXISTING IDOT ELECTRICAL FACILITIES FROM THE DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR PRIOR TO THE START OF ANY WORK. ADDITIONAL REQUESTS MAY BE AT THE EXPENSE OF CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.

6. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR UNDERGROUND AND OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL NOTIFY THE AREA ENGINEER, THE RESIDENT ENGINEER AND ANY IMPACTED UTILITY COMPANY OF THE CONFLICT, AND SHALL COORDINATE AND RESOLVE THE ISSUE PRIOR TO ORDERING MATERIALS, AND PRIOR TO POURING FOUNDATION.

7. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

8. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION , CONDUIT, HANDHOLE, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACE SUCH AS SHOULDER , MEDIAN, SIDEWALK, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOVED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

9. PARTIAL PAYMENT AS DESCRIBED IN ARTICLE 109.07(b) OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED FOR ITEMS INCLUDED IN THIS CONTRACT.

10. LOCATIONS WITH PEDESTRIAN EQUIPMENT HAVE BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THE PLANS FOR TRAFFIC SIGNAL MAST ARM/POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO INSURE ADA COMPLIANCE.

11. TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS THE ENGINEER SHALL CONTACT EMAD ALHUSSEINI, AREA TRAFFIC FIELD ENGINEER AT EMAD.ALHUSSEINI@ILLINOIS.GOV.

12. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCES, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) SO THAT THESE LOCATIONS CAN BE REESTABLISHED FOR STRIPING.

HIGHWAY STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND A FOOT
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-04	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701101-05	OFF- ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600MM) FROM PAVEMENT EDGE
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS ≤ 40 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
814001-03	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-08	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877002-04	STEEL MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
878001-10	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE	AIR VOIDS @ Ndes	
PAVEMENT RESTORATION		
POLYMERIZED HMA SURFACE COURSE, MIX "E", N70 (IL 9.5 mm); 2"	4% AT 70 GYR	QC/QA
HMA BASE COURSE WIDENING, 9"	4% AT 90 GYR	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP)		

NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN

NOTE 2: THE "ACT TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "ACT TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

NOTE 3: QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

REV-SEP

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = sadhikari	DESIGNED - N. SALEHIAN	REVISED - 3/25/2020
	DRAWN - P. SCOTT	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - C. GUTOWSKI	REVISED -
PLOT DATE = 4/23/2020	DATE - 3/16/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS & GENERAL NOTES

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	2
		CONTRACT NO. 62G02		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: S:\Projects\1804 - IDOT Traffic Signal Design - EJM\Project Work\CADD\WO 18-008 - Ogden_Austin CivilCADD_Sheets\18-008_sht-General Notes.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE: 90% FEDERAL 10% STATE	90% FEDERAL 5% STATE 5% CICERO	90% FEDERAL 10% STATE	100% CICERO		
				ROADWAY	TRAFFIC SIGNALS	INTERCONNECT	EVP		
				0021					
				URBAN					
28000510	INLET FILTERS	EACH	4	4					
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	289	289					
35600712	HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	SQ YD	249	249					
35800100	PREPARATION OF BASE	SQ YD	249	249					
35800200	AGGREGATE BASE REPAIR	TON	20	20					
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	112	112					
40604172	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70	TON	35	35					
42001300	PROTECTIVE COAT	SQ YD	603	603					
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2,413	2,413					
42400800	DETECTABLE WARNINGS	SQ FT	152	152					
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	56	56					
44000300	CURB REMOVAL	FOOT	797	797					
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	250	250					
44000600	SIDEWALK REMOVAL	SQ FT	2,413	2,413					

REV-SEP

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = sadhikari	DESIGNED - N. SALEHIAN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES (SHEET 1 OF 8)
	DRAWN - P. SCOTT	REVISED -		
PLOT SCALE = 2.0000 ' / in.	CHECKED - C. GUTOWSKI	REVISED -		
PLOT DATE = 3/23/2020	DATE - 3/16/2020	REVISED -		SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	3
	SOQ-1	CONTRACT NO. 62G02		
		ILLINOIS FED. AID PROJECT		

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE: 90% FEDERAL 10% STATE	90% FEDERAL 5% STATE 5% CICERO	90% FEDERAL 10% STATE	100% CICERO		
					ROADWAY	TRAFFIC SIGNALS	INTERCONNECT	EVP		
					0021					
					URBAN					
	44003100	MEDIAN REMOVAL	SQ FT	3,740	3,740					
	60250200	CATCH BASINS TO BE ADJUSTED	EACH	8	8					
	60255500	MANHOLES TO BE ADJUSTED	EACH	3	3					
	60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1	1					
	60600605	CONCRETE CURB, TYPE B	FOOT	825	825					
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	250	250					
	60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	1,663	1,663					
	60623745	CONCRETE MEDIAN TRANSITION	SQ FT	25	25					
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	90	50	40				
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	2	1	1				
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	0.5	0.5				
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	0.5	0.5				
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	4	2	2				
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6		6				

REV-SEP

* SPECIALTY ITEM

MODEL: Default
FILE NAME: S:\Projects\1804 - IDOT Traffic Signal Design - EJM\Project Work\CADD\WO 18-008 - Ogden Austin Civil\CADD Sheets\18-008_smt_SOQ-02.dgn

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411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = sadhikari	DESIGNED - N. SALEHIAN	REVISED -
	DRAWN - P. SCOTT	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - C. GUTOWSKI	REVISED -
PLOT DATE = 3/23/2020	DATE - 3/16/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 2 OF 8)

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	4
	SOQ-2	CONTRACT NO. 62G02		
	ILLINOIS FED. AID PROJECT			

				CONSTRUCTION CODE					
				90% FEDERAL 10% STATE	90% FEDERAL 5% STATE 5% CICERO	90% FEDERAL 10% STATE	100% CICERO		
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	TRAFFIC SIGNALS	INTERCONNECT	EVP		
				0021					
				URBAN					
67100100	MOBILIZATION	L SUM	1	0.25	0.75				
70300900	PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS	SQ FT	73	73					
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	2,893	2,893					
70300906	PAVEMENT MARKING TAPE, TYPE IV 6"	FOOT	606	606					
72000100	SIGN PANEL - TYPE 1	SQ FT	30		30				
72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	8	8					
72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	8	8					
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	10	10					
73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	1	1					
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	73	73					

REV-SEP

* SPECIALTY ITEM

MODEL: Default
FILE NAME: S:\Projects\1804 - IDOT Traffic Signal Design - EJM\Project Work\CADD\WO 18-008 - Ogden Austin Civil\CADD Sheets\18-008_smt_SOQ-03.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = sadhikari	DESIGNED - N. SALEHIAN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES (SHEET 3 OF 8)
	DRAWN - P. SCOTT	REVISED -		
PLOT SCALE = 2.0000 ' / in.	CHECKED - C. GUTOWSKI	REVISED -		
PLOT DATE = 3/23/2020	DATE - 3/16/2020	REVISED -		SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	5
	SOQ-3	CONTRACT NO. 62G02		
	ILLINOIS FED. AID PROJECT			

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
					90% FEDERAL 10% STATE	90% FEDERAL 5% STATE 5% CICERO	90% FEDERAL 10% STATE	100% CICERO		
					ROADWAY	TRAFFIC SIGNALS	INTERCONNECT	EVP		
					0021					
					URBAN					
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2,120	2,120					
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	884	884					
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	510	510					
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	133	133					
	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,116		914	202			
	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	96		96				
	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	451		451				
	81400100	HANDHOLE	EACH	5		5				
	81400200	HEAVY-DUTY HANDHOLE	EACH	2		2				
	81400300	DOUBLE HANDHOLE	EACH	2		2				
	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2			2			
	86400100	TRANSCEIVER - FIBER OPTIC	EACH	1		1				
	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	5,532			5,532			
	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,545		1,545				

REV-SEP

* SPECIALTY ITEM

MODEL: Default
FILE NAME: S:\Projects\1804 - IDOT Traffic Signal Design - EJM\Project Work\CADD\WO 18-008 - Ogden_Austin CMF\CADD Sheets\18-008_sht_SOQ-04.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = sadhikari	DESIGNED - N. SALEHIAN	REVISED -
	DRAWN - P. SCOTT	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - C. GUTOWSKI	REVISED -
PLOT DATE = 3/23/2020	DATE - 3/16/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 4 OF 8)

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	6
	SOQ-4	CONTRACT NO. 62G02		
	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE: 90% FEDERAL 10% STATE / ROADWAY	90% FEDERAL 5% STATE 5% CICERO / TRAFFIC SIGNALS	90% FEDERAL 10% STATE / INTERCONNECT	100% CICERO / EVP		
				0021 URBAN					
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2,050		1,580		470		
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,475		3,475				
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	855		855				
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,105		2,105				
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	220		220				
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,000		1,000				
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3		3				
87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1		1				
87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1		1				
87700414	STEEL MAST ARM ASSEMBLY AND POLE, 66 FT.	EACH	1		1				
87700424	STEEL MAST ARM ASSEMBLY AND POLE, 72 FT.	EACH	1		1				
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16		16				
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4				
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	23.5		23.5				

REV-SEP

MODEL: $MODELNAME$
FILE NAME: $FILE$

				CONSTRUCTION CODE					
				90% FEDERAL 10% STATE	90% FEDERAL 5% STATE 5% CICERO	90% FEDERAL 10% STATE	100% CICERO		
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	TRAFFIC SIGNALS	INTERCONNECT	EVP		
				0021					
				URBAN					
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	50		50				
87900200	DRILL EXISTING HANDHOLE	EACH	2			2			
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	10		10				
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8		8				
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2		2				
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2		2				
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8		8				
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12		12				
88500100	INDUCTIVE LOOP DETECTOR	EACH	6		6				
88600100	DETECTOR LOOP, TYPE I	FOOT	388		388				
88700200	LIGHT DETECTOR	EACH	2				2		
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1				1		
88800100	PEDESTRIAN PUSH-BUTTON	EACH	8		8				
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1				

REV-SEP

MODEL: $MODELNAME$
FILE NAME: $FILE$

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411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = $USER$	DESIGNED - N. SALEHIAN	REVISED -
	DRAWN - P. SCOTT	REVISED -
PLOT SCALE = $SCALE$	CHECKED - C. GUTOWSKI	REVISED -
PLOT DATE = $DATE$	DATE - 3/16/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 6 OF 8)

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	8
	SOO-6	CONTRACT NO. 62G02		
	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				90% FEDERAL 10% STATE	90% FEDERAL 5% STATE 5% CICERO	90% FEDERAL 10% STATE	100% CICERO		
				ROADWAY	TRAFFIC SIGNALS	INTERCONNECT	EVP		
				0021					
				URBAN					
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	10,966			10,966			
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1				
89502376	REBUILD EXISTING HANDHOLE	EACH	2		2				
89502380	REMOVE EXISTING HANDHOLE	EACH	9		9				
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1		1				
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	8		8				
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	470				470		
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	2,500			2,500			
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	184	184					
X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1		1				
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1		1				
X1400201	RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	2		2				
X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2		2				
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.5	0.5				

REV-SEP

MODEL: $MODELNAME$
FILE NAME: $FILE$

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Chicago, Illinois 60607

USER NAME = $USER$	DESIGNED - N. SALEHIAN	REVISED -	
	DRAWN - P. SCOTT	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - C. GUTOWSKI	REVISED -	
PLOT DATE = $DATE$	DATE - 3/16/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 7 OF 8)

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	9
	S00-7	CONTRACT NO. 62G02		
	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				90% FEDERAL 10% STATE	90% FEDERAL 5% STATE 5% CICERO	90% FEDERAL 10% STATE	100% CICERO		
				ROADWAY	TRAFFIC SIGNALS	INTERCONNECT	EVP		
				0021					
				URBAN					
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1				
X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	5,532			5,532			
X8780010	CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	8		8				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5	0.5				
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	102.8		102.8				
Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1			1			
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1		1				
Z0076600	TRAINEES	HOUR	500	500					
Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	500	500					

REV-SEP

MODEL: $MODELNAME$
FILE NAME: $FILE1$

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411 South Wells Street Suite 1000
Chicago, Illinois 60607

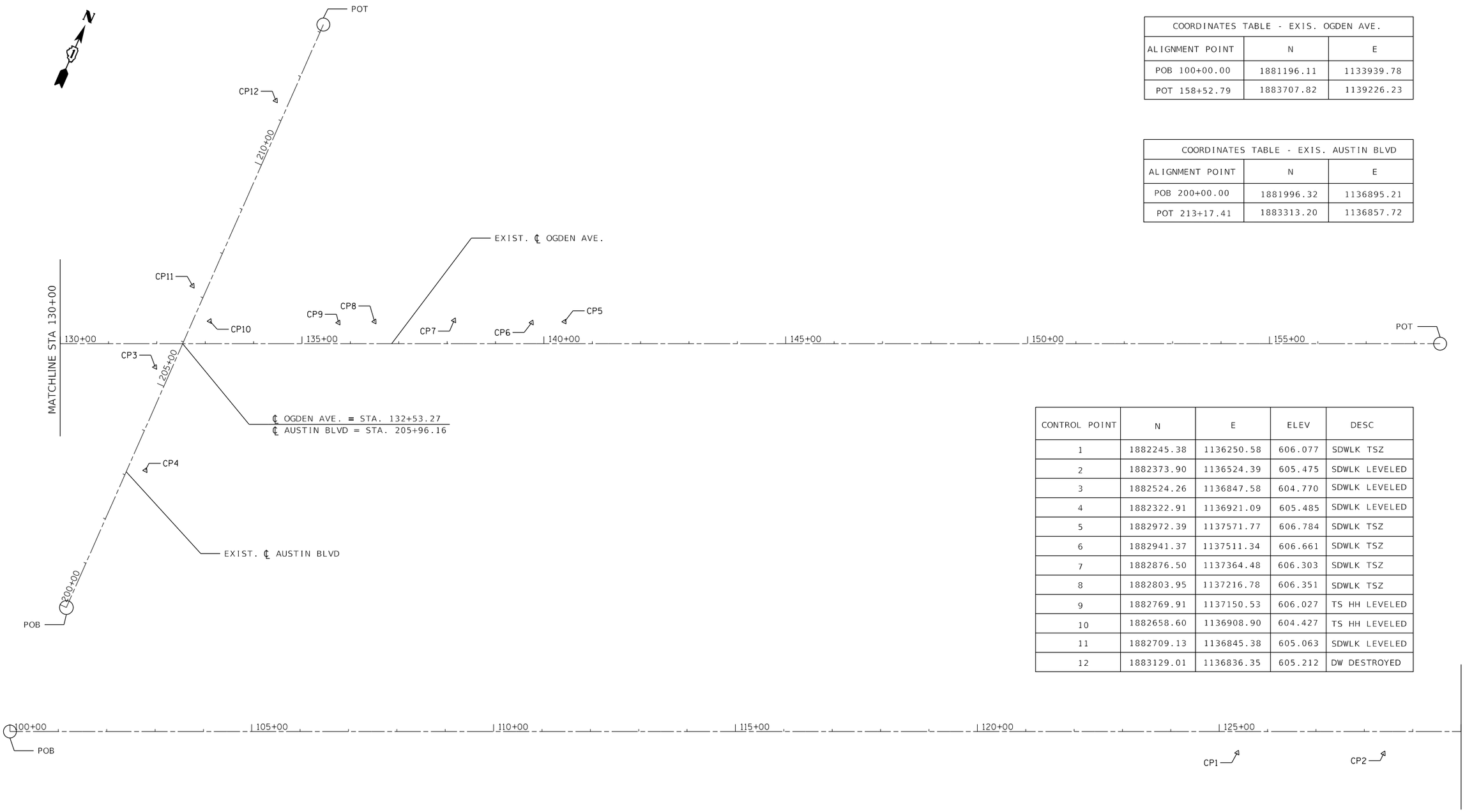
USER NAME = $USER$	DESIGNED - N. SALEHIAN	REVISED -	
	DRAWN - P. SCOTT	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - C. GUTOWSKI	REVISED -	
PLOT DATE = $DATE$	DATE - 3/16/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 8 OF 8)

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	10
	SOO-8	CONTRACT NO. 62G02		
	ILLINOIS FED. AID PROJECT			



COORDINATES TABLE - EXIS. OGDEN AVE.		
ALIGNMENT POINT	N	E
POB 100+00.00	1881196.11	1133939.78
POT 158+52.79	1883707.82	1139226.23

COORDINATES TABLE - EXIS. AUSTIN BLVD		
ALIGNMENT POINT	N	E
POB 200+00.00	1881996.32	1136895.21
POT 213+17.41	1883313.20	1136857.72

CONTROL POINT	N	E	ELEV	DESC
1	1882245.38	1136250.58	606.077	SDWLK TSZ
2	1882373.90	1136524.39	605.475	SDWLK LEVELED
3	1882524.26	1136847.58	604.770	SDWLK LEVELED
4	1882322.91	1136921.09	605.485	SDWLK LEVELED
5	1882972.39	1137571.77	606.784	SDWLK TSZ
6	1882941.37	1137511.34	606.661	SDWLK TSZ
7	1882876.50	1137364.48	606.303	SDWLK TSZ
8	1882803.95	1137216.78	606.351	SDWLK TSZ
9	1882769.91	1137150.53	606.027	TS HH LEVELED
10	1882658.60	1136908.90	604.427	TS HH LEVELED
11	1882709.13	1136845.38	605.063	SDWLK LEVELED
12	1883129.01	1136836.35	605.212	DW DESTROYED

MODEL: Default
FILE NAME: S:\Projects\1804 - IDOT Traffic Signal Design - EJM\Project Work\CADD\WO_18-008 - Ogden-Austin Civil\CADD Sheets\18-008_sht_Alignment-Ties.dgn

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USER NAME = sadhikari	DESIGNED - N. SALEHIAN	REVISED - 3/25/2020	
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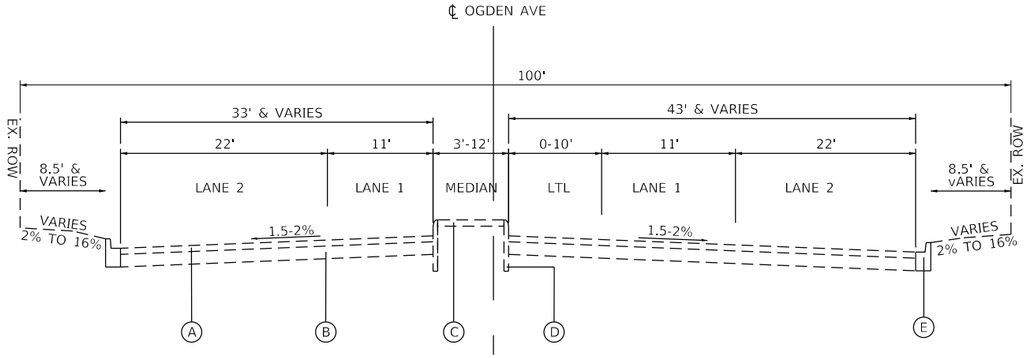
PLOT SCALE = 200.0000 ' / in.	CHECKED - C. GUTOWSKI	REVISED -	
PLOT DATE = 4/23/2020	DATE - 3/16/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT & TIES
OGDEN AVE AT AUSTIN BLVD

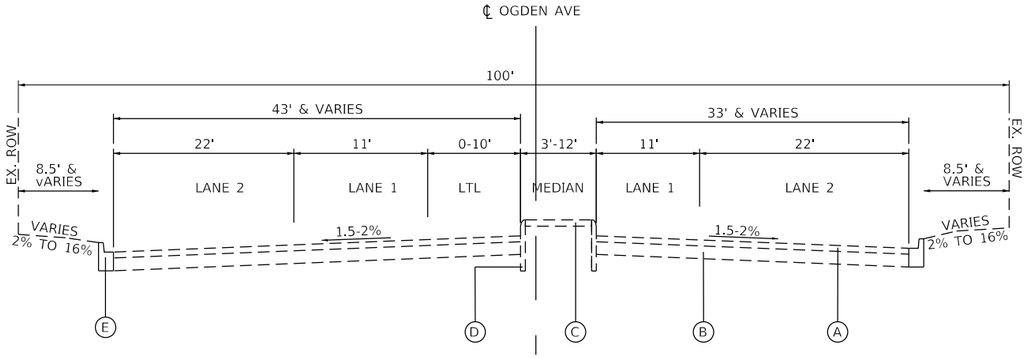
SCALE: 1"=100' | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	11
		CONTRACT NO. 62G02		
	ILLINOIS	FED. AID PROJECT		



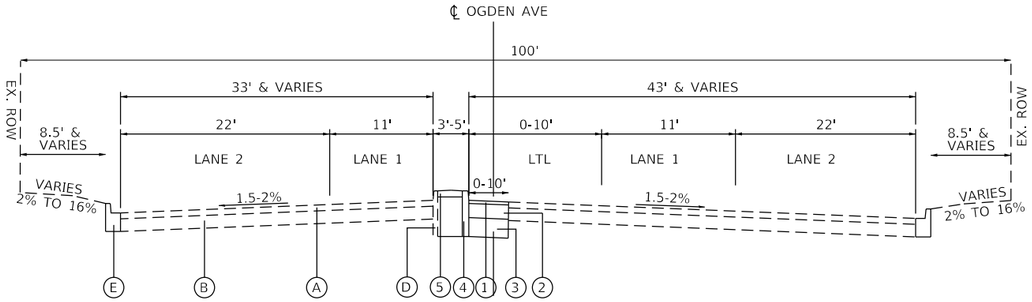
EXISTING CROSS SECTION

OGDEN AVENUE (LOOKING EAST)
STA. 128+21 TO STA. 131+56



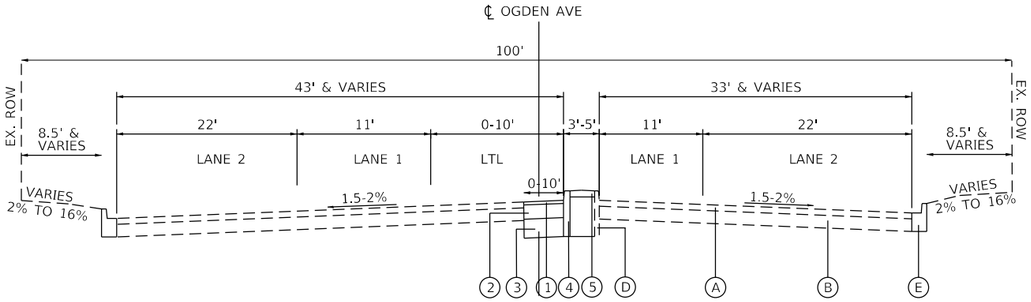
EXISTING CROSS SECTION

OGDEN AVENUE (LOOKING EAST)
STA. 133+47 TO STA. 136+65



PROPOSED CROSS SECTION

OGDEN AVENUE (LOOKING EAST)
STA. 128+21 TO STA. 131+56



PROPOSED CROSS SECTION

OGDEN AVENUE (LOOKING EAST)
STA. 133+47 TO STA. 136+65

EXISTING LEGEND

- (A) HMA OVERLAY
- (B) CONCRETE BASE COURSE
- (C) BITUMINOUS MEDIAN SURFACE, 4"
- (D) CONCRETE CURB, TYPE B
- (E) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

PROPOSED LEGEND

- (1) POLYMERIZED HMA SURFACE COURSE, MIX "E",IL-9.5, N70. 2"
- (2) HMA BASE COURSE, WIDENING 9"
- (3) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (4) CONCRETE CURB TYPE B
- (5) CONCRETE MEDIAN SURFACE, 4"

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USER NAME = sadhikari		DESIGNED -	N. SALEHIAN	REVISED -	3/25/2020
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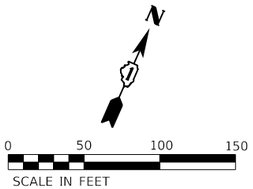
PLOT SCALE = 16.0005 ' / in.		CHECKED -	C. GUTOWSKI	REVISED -	
PLOT DATE = 4/23/2020		DATE -	3/16/2020	REVISED -	

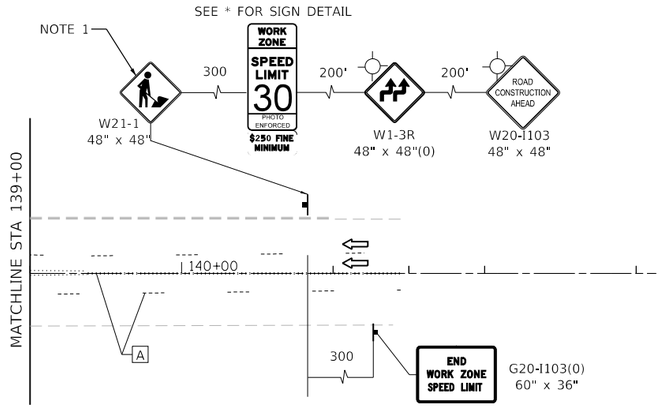
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

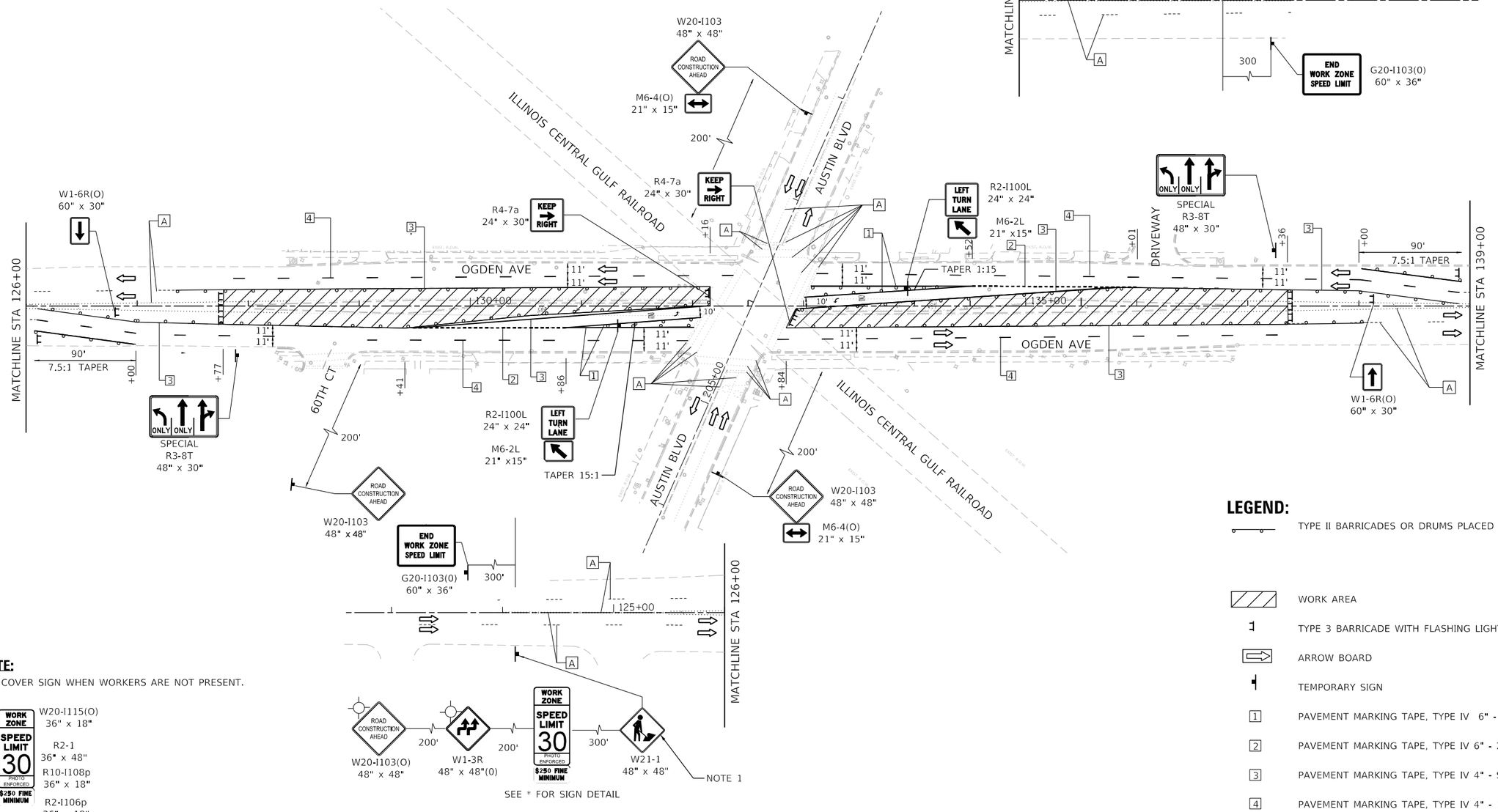
TYPICAL SECTIONS
OGDEN AVE AT AUSTIN BLVD

SCALE: N.T.S. | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-5-2(TS)	COOK	42	12
		CONTRACT NO. 62G02		
	ILLINOIS FED. AID PROJECT			







NOTE:

1. COVER SIGN WHEN WORKERS ARE NOT PRESENT.

* WORK ZONE / SPEED LIMIT 30 / PHOTO ENFORCED / $250 FINE MINIMUM
W20-I115(O) 36" x 18"
R2-1 36" x 48"
R10-I108p 36" x 18"
R2-I106p 36" x 18"

LEGEND:

- TYPE II BARRICADES OR DRUMS PLACED @ 20' CENTERS IN TAPERS, @ 50' CENTERS IN TANGENT, @ 10' CENTERS IN RADII
- WORK AREA
- TYPE 3 BARRICADE WITH FLASHING LIGHTS
- ARROW BOARD
- TEMPORARY SIGN
- [1] PAVEMENT MARKING TAPE, TYPE IV 6" - SOLID WHITE (70300540)
- [2] PAVEMENT MARKING TAPE, TYPE IV 6" - 2' DASH 6' SKIP WHITE (70300540)
- [3] PAVEMENT MARKING TAPE, TYPE IV 4" - SOLID YELLOW (70300520)
- [4] PAVEMENT MARKING TAPE, TYPE IV 4" - 10' DASH 30' SKIP WHITE (70300220)
- [A] EXISTING PAVEMENT MARKING

MODEL: Default
FILE NAME: S:\Projects\11804 - IDOT Traffic Signal Design - E\MVProject Work\CADD\WO_18-008 - Ogden_Austin Civil\CADD Sheets\18-008_4th MOT.dgn

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411 South Wells Street Suite 1000
Chicago, Illinois 60607

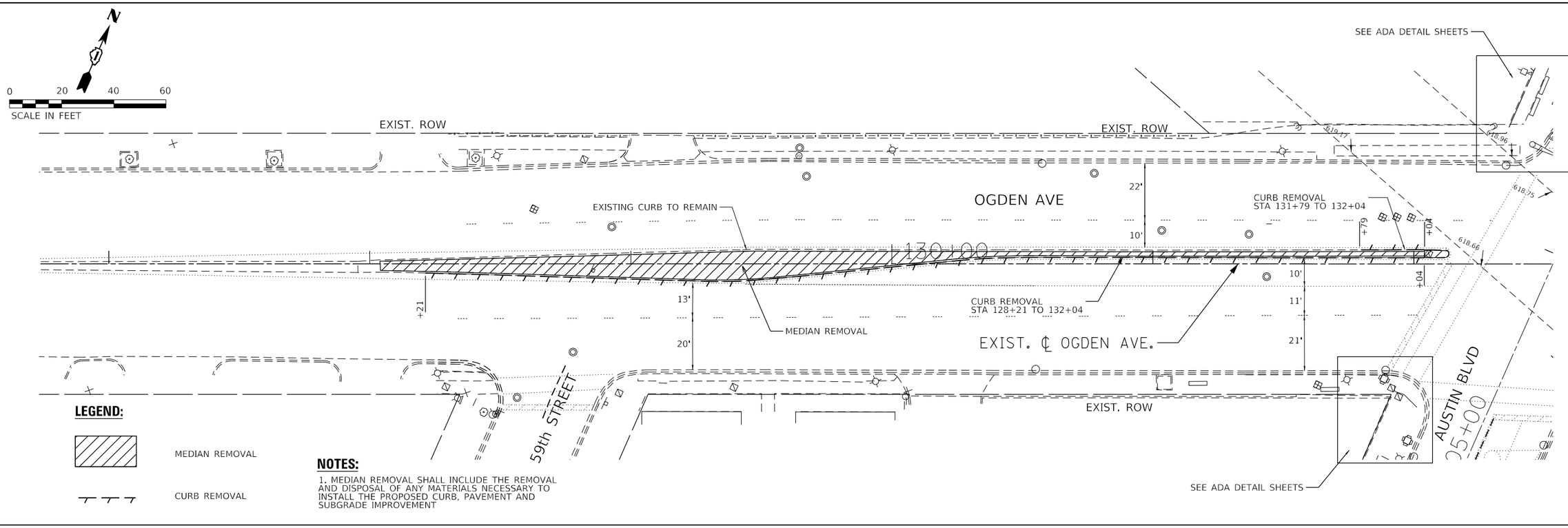
USER NAME = sadhikari	DESIGNED - N. SALEHIAN	REVISED - 3/25/2020	
	DRAWN - P. SCOTT	REVISED -	
PLOT SCALE = 100.0077 ' / in.	CHECKED - C. GUTOWSKI	REVISED -	
PLOT DATE = 4/23/2020	DATE - 3/16/2020	REVISED -	

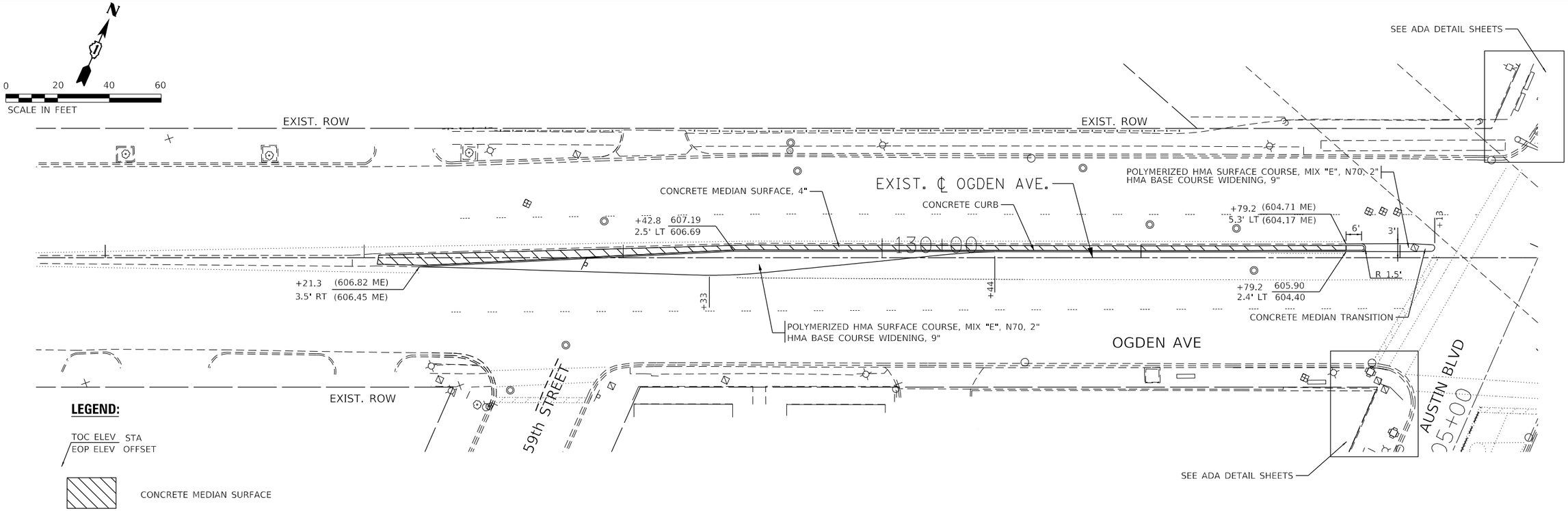
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
OGDEN AVE AT AUSTIN BLVD

SCALE: 1'=50' | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	13
		CONTRACT NO. 62G02		
	ILLINOIS FED. AID PROJECT			





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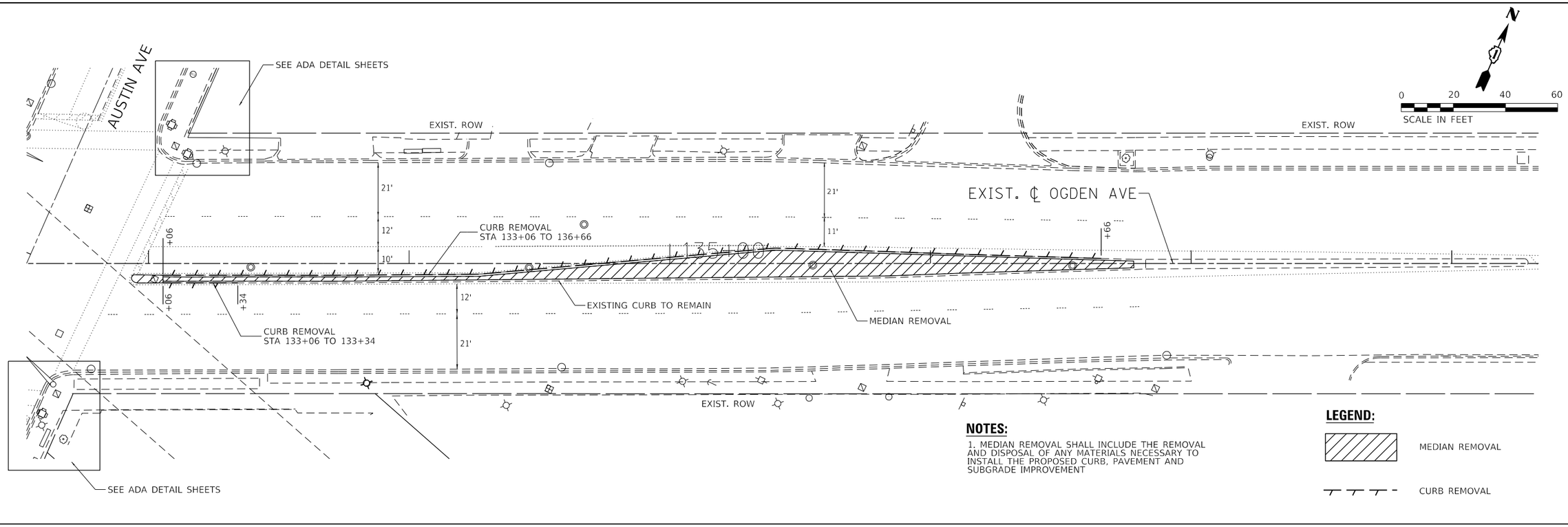
USER NAME = sadhikari	DESIGNED - N. SALEHIAN	REVISED - 3/25/2020
	DRAWN - P. SCOTT	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - C. GUTOWSKI	REVISED -
PLOT DATE = 4/23/2020	DATE - 3/16/2020	REVISED -

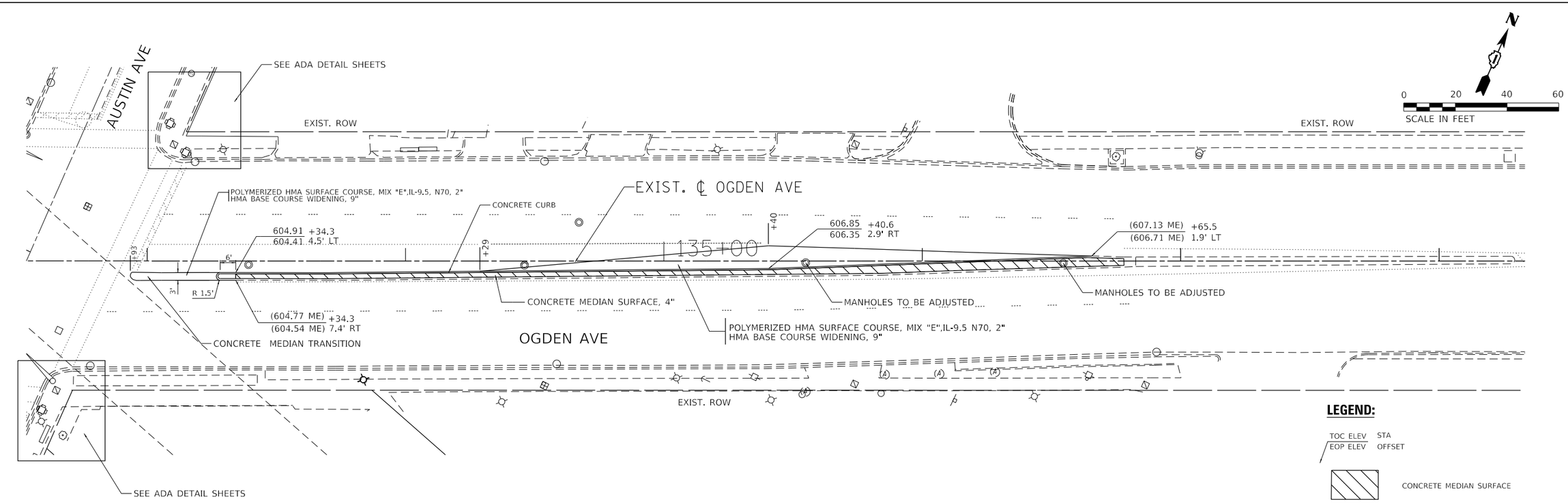
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL AND ROADWAY PLAN (SHEET 1 OF 2)
OGDEN AVE AT AUSTIN BLVD

SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	14
		CONTRACT NO. 62G02		
	ILLINOIS	FED. AID PROJECT		





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Chicago, Illinois 60607

USER NAME = rjacox	DESIGNED - N. SALEHIAN	REVISED - 3/25/2020
	DRAWN - P. SCOTT	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - C. GUTOWSKI	REVISED -
PLOT DATE = 4/7/2020	DATE - 3/16/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL AND ROADWAY PLAN (SHEET 2 OF 2)
OGDEN AVE AT AUSTIN BLVD

SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	15
		CONTRACT NO. 62G02		
	ILLINOIS	FED. AID PROJECT		

LEGEND

RAMPS

DETECTABLE TILE

EX ROW

CONTROLLER

SIGNAL MAST ARM

16' SIGNAL POST

10' SIGNAL POST

ADJUST

TRANSITION PANEL

LEVEL AREA

RAMP

LOWER LANDING

DOUBLE HANDHOLE

HANDHOLE

LANDING

AUSTIN BLVD.

ILLINOIS CENTRAL GULF RAILROAD

OGDEN AVE.

I 206

N

SCALE IN FEET 5 0 5

604.82 6.0' 604.64 3.0% 5.0' 5.0' 604.68 2.8% 2.9' 1.0% 0.4% 5.0' LEVEL AREA 1.0% 1.0% 604.63 604.62 604.57 604.39 1.0% 1.0% 604.86 ADJUST 603.53 6.2% RAMP 6.2% 603.70 DOUBLE HANDHOLE 15.0' 8.8' 1.3% 1.0% SIGNAL MAST ARM 603.57 603.64 603.60 (HP) 603.60 16' SIGNAL POST EX ROW 5.0' 5.0' 5.0' 5.0' 5.0' 604.55 1.0% 1.2% 5.7% 0.3% 0.0% 604.50 604.44 603.58 1.3% 7.8' 2.1% TRANSITION PANEL 1.3% LEVEL AREA 1.3% RAMP LOWER LANDING 604.40 604.34 603.48 2.4' 603.47 0.2% 1.2% 5.7% 0.4% 0.2% 604.39 603.57 (HP) 603.57 (HP) ADJUST 603.54 5.9' 1.0% R 14.0' 603.44 603.44 10' SIGNAL POST 0.4% 603.41 603.39 5.3' 603.41

2.0% 1.7% 603.97 0.8% 603.92 6.0' 0.6% 0.6%

ADJUST 604.74 604.14 9.2' 5.0' 5.0' 604.72 5.0' 604.94 TRANSITION PANEL ADJUST EX ROW 604.86 0.4% 1.5% 1.6% 604.70 LEVEL AREA 1.4% 604.73 10.0' 0.3% HANDHOLE 5.3% RAMP 5.3% 604.11 5.0' 1.0% 4.0' 604.06 1.0% LANDING 604.14 1.0% SIGNAL MAST ARM 603.80 6.5% 604.09 603.79 RAMP 6.5% 0.4% 15.0' 5.0' 5.0' EX ROW 1.0% 603.83 603.82 604.89 604.94 604.95 0.6% 7.0% 1.0% 0.2% 603.79 LOWER LANDING 1.5% 603.76 RAMP 7.0% 1.1% 1.1% TRANSITION PANEL 4.7' 603.76 0.0% 1.9% LEVEL AREA 603.71 16' SIGNAL POST 3.5' 1.0% 0.6% 604.84 604.89 604.86 R 8.5' 0.3% 603.75 604.80 603.75 2.2' 603.65 603.73 603.73 12.1'

0.8% 0.8% 6.0'

604.05 1.1% 603.98 32 604.03 0.3% 604.05 133

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PLOT SCALE = 10.0000 ' / in.	CHECKED - C. GUTOWSKI	REVISED -	
PLOT DATE = 4/23/2020	DATE - 3/16/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS (SHEET 1 OF 2)
OGDEN AVE AT AUSTIN BLVD

SCALE: 1"=10' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	16
		CONTRACT NO. 62G02		
	ILLINOIS FED. AID PROJECT			

LEGEND

RAMPS

DETECTABLE TILE

N

5 0 5
SCALE IN FEET

ILLINOIS CENTRAL GULF RAILROAD

OGDEN AVE.

AUSTIN BLVD.

1205+00

22.5' 5.0' 5.0' 2.1' 5.0' 5.0' 5.0' 3.0' 5.0' 4.0' 4.0' 4.5' 5.0' 6.0' 5.0' 6.0' 0.5% 0.3% 0.9% 0.2% 0.6% 1.0% 1.3% 1.5% 0.3% 7.3% 7.0% 1.2% 3.3% 4.7% 1.5% 0.7% 1.5% 0.6% 0.5% 0.3% 0.8% 3.6% 3.2% 7% 2.0% 2.3% 0.0% 6.1% 6.7% 4.3' 4.9' 9.0' 6.3' 4.5' 20.2' 6.2' 2.9' 7.8' 3.0' 7.9'

ADJUST 603.62 603.72 603.71 603.73 603.74 603.74 603.74 603.75 603.77 603.76 603.88 HP 603.79 ADJUST 603.44 604.95 605.16 EX ROW 605.15 TRANSITION PANEL 605.09 605.05 605.00 605.14 605.09 605.00 604.08 604.04 603.78 SIGNAL MAST ARM DOUBLE HANDHOLE 603.76 603.81 603.76 605.12 605.15 LEVEL AREA 605.10 605.07 EX ROW 16' SIGNAL POST RAMP LOWER LANDING

603.83 603.83 10' SIGNAL POST 603.80 603.80 ADJUST 603.45 603.86 603.85 SIGNAL MAST ARM 603.87 603.88 603.97 603.94 603.94 604.04 604.08 604.86 603.95 604.92 605.10 605.35 604.95 HANDHOLE ADJUST LEVEL AREA TRANSITION PANEL 603.86 604.60 604.65 604.55 604.68 604.73 604.73 LOWER LANDING RAMP LEVEL AREA TRANSITION PANEL

MODEL: Default
FILE NAME: S:\Projects\1804 - IDOT Traffic Signal Design - EJM\Project Work\CADD\WO 18-008 - Ogden_Austin CivilCADD Sheets\18-005_sht_ADA South 02.dgn

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USER NAME = sadhikari	DESIGNED - N. SALEHIAN	REVISED - 3/25/2020
	DRAWN - P. SCOTT	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - C. GUTOWSKI	REVISED -
PLOT DATE = 4/23/2020	DATE - 3/16/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS (SHEET 2 OF 2)
OGDEN AVE AT AUSTIN BLVD

SCALE: 1"=10' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

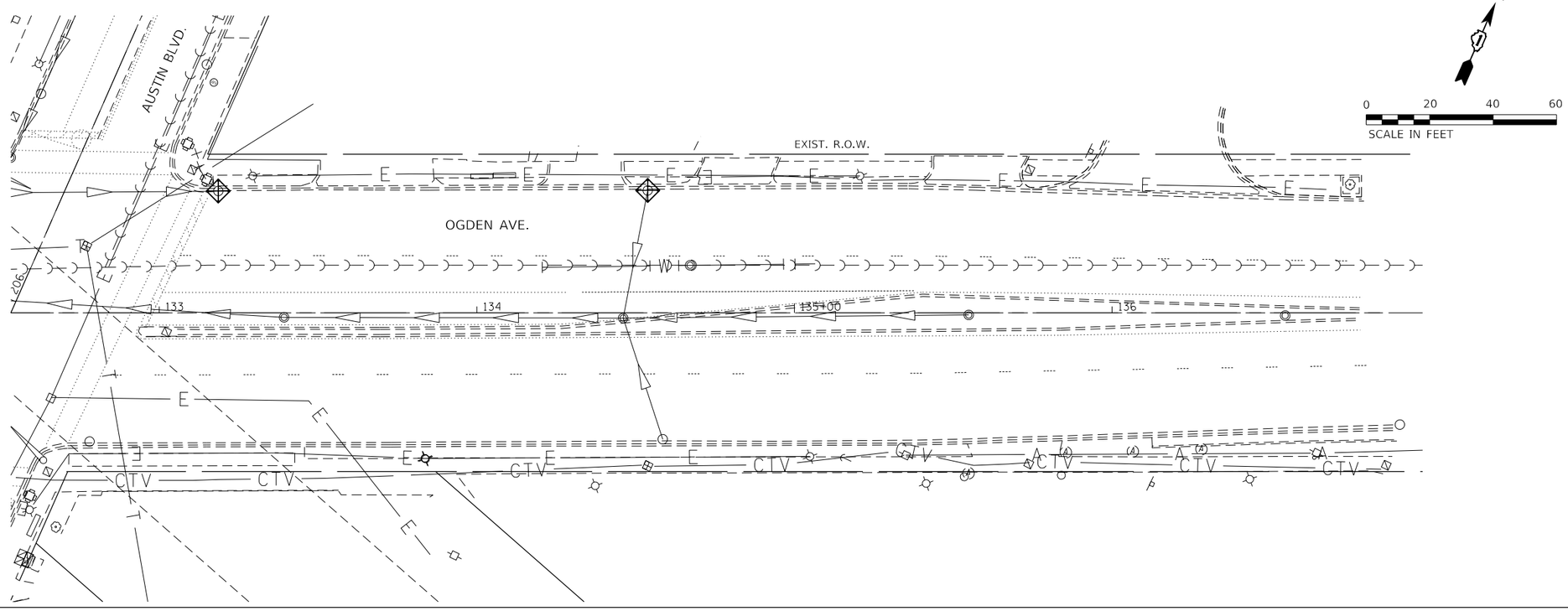
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	17
		CONTRACT NO. 62G02		
		ILLINOIS	FED. AID PROJECT	

EXISTING UTILITY LEGEND

- SANITARY SEWER
- STORM SEWER
- E - ELECTRIC
- T - TELEPHONE

EROSION CONTROL

- INLET FILTER

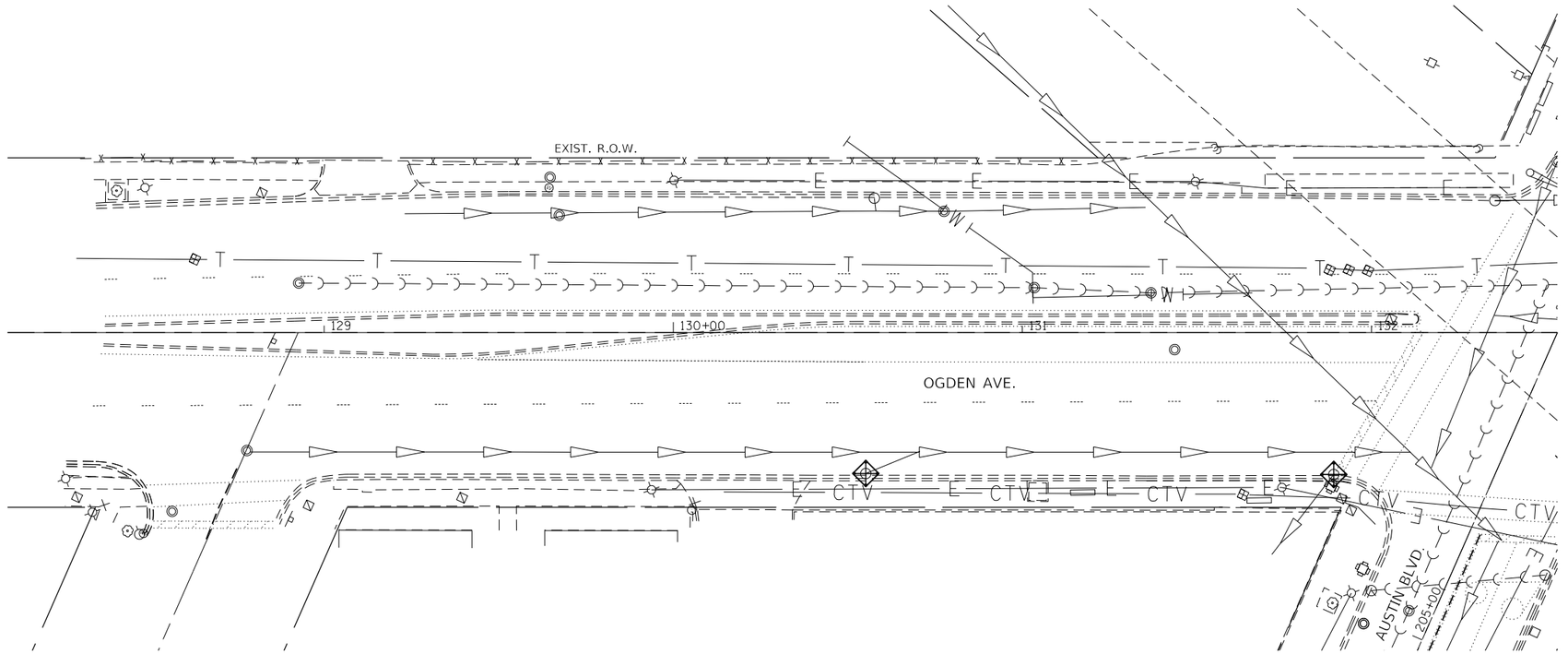


EXISTING UTILITY LEGEND

- SANITARY SEWER
- STORM SEWER
- E - ELECTRIC
- T - TELEPHONE

EROSION CONTROL

- INLET FILTER



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TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = sadhikari	DESIGNED - N. SALEHIAN	REVISED - 3/25/2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	UTILITY AND EROSION CONTROL PLAN OGDEN AVE AT AUSTIN BLVD
	DRAWN - P. SCOTT	REVISED -		
PLOT SCALE = 40.0000 ' / in.	CHECKED - C. GUTOWSKI	REVISED -		SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.
PLOT DATE = 4/23/2020	DATE - 3/16/2020	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-5-2(TS)	COOK	42	18
		CONTRACT NO. 62G02		
	ILLINOIS FED. AID PROJECT			

SAM
4347 Euclid Avenue, Manassas, VA 20111
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171667_SUE.DGN	Designated By: B.J. E.F.
Scale:	Drafted By: P.B.
Sheet: COVER	Checked By: S.W.
Date: 02-01-2019	1018047041

ILLINOIS
SCOTT A. WECHTER
REG. 62-042188
REGISTERED PROFESSIONAL ENGINEER

I, SCOTT A. WECHTER, CERTIFY TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE UTILITY INFORMATION DEPICTED BY SAM, LLC. ON THIS PLAN SHEET WAS OBTAINED AND COMPILED UNDER MY DIRECT SUPERVISION USING ACCEPTED PRACTICES AND PROCEDURES.

DATE: 02-01-2019

SCOTT A. WECHTER
PROJECT MANAGER SAM, LLC

UTILITY OWNERS

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bkoppang@southernco.com

TOWN OF CICERO
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WILLOWBROOK, IL 60527
630-887-8640

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ub2591@att.com

CROWN CASTLE FIBER (LIGHTOWER)
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312-955-2252

COMED
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COMED PUBLIC RELOCATION
LINCOLN CENTER ONE
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angela.harrell@coned.com

COMCAST CABLE COMMUNICATIONS
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ELMHURST, IL 60126
224-229-5861
bob_schulter@cable.comcast.com

LEGEND

ALL UTILITY INFORMATION HEREON IS DEPICTED TO QUALITY LEVEL "B" (QL-B) UNLESS OTHERWISE NOTED. QL-B INFORMATION IS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO IDENTIFY THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES. QL-B DATA ARE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES AND REDUCED ONTO PLAN DOCUMENTS.

SIZE INFORMATION SHOWN HEREON IS TAKEN FROM AVAILABLE UTILITY RECORDS.

ABBREVIATIONS:

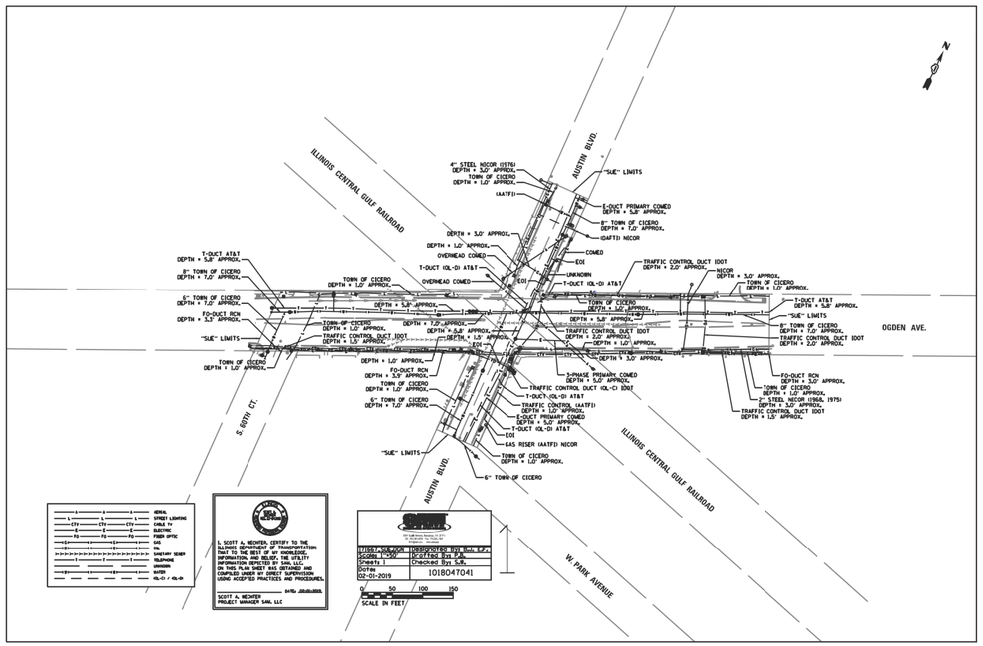
(QL-C)	DEPICTED ACCORDING TO RECORD INFORMATION AND EXISTING ASSOCIATED UTILITY STRUCTURES. NO ELECTRONIC INFORMATION WAS OBTAINED.
(QL-D)	DEPICTED ACCORDING TO RECORD INFORMATION. NO ELECTRONIC INFORMATION WAS OBTAINED.
(DATFI)	DEPICTED ACCORDING TO FIELD INSPECTION
(FO)	FIBER OPTIC
(AATUR)	ABANDONED ACCORDING TO UTILITY RECORDS
(AATFI)	ABANDONED ACCORDING TO FIELD INSPECTION
(EATFI)	EMPTY ACCORDING TO FIELD INSPECTION
EOI	END OF ELECTRONIC DESIGNATING INFORMATION
EORI	END OF UTILITY RECORD INFORMATION
(NAC)	NO ASSOCIATED CABLE FOUND FROM UTILITY STRUCTURE
(NAP)	NO ASSOCIATED PIPING FOUND FROM UTILITY STRUCTURE
⊢——	UTILITY ENDPOINT

UNLESS OTHERWISE NOTED, UTILITY LINE LIMITS DEPICTED REPRESENT FIELD DESIGNATING LIMITS AND NOT ENDPOINTS OF UTILITIES.

UTILITY INFORMATION LABELED "QL-C" OR "QL-D" IS DERIVED FROM FURNISHED RECORDS. SUCH INFORMATION MAY NOT BE ACCURATE OR RELIABLE. SAM, LLC. EXPRESSLY DISCLAIMS RESPONSIBILITY FOR THE ACCURACY OR RELIABILITY OF UTILITY INFORMATION DEPICTED ACCORDING TO RECORDS.

ELECTRONIC DEPTH READINGS WERE TAKEN DIRECTLY FROM ELECTRONIC DESIGNATING INSTRUMENTS AND HAVE NOT BEEN VERIFIED BY ANY OTHER MEANS. EQUIPMENT MANUFACTURERS WILL NOT GUARANTEE AND ACCURACY FOR THIS DATA . THEREFORE, THE DEPTH READINGS ARE NOT TO BE CONSIDERED SUITABLE FOR DESIGN DECISIONS. SAM, LLC. DOES NOT WARRANT OR GUARANTEE THE ACCURACY OR RELIABILITY OF ANY ELECTRONIC DEPTH READINGS.

A	AERIAL
L	STREET LIGHTING
CTV	CABLE TV
E	ELECTRIC
FO	FIBER OPTIC
G	GAS
O	OIL
	SANITARY SEWER
T	TELEPHONE
	UNKNOWN
W	WATER
	(QL-C) / (QL-D)



ILLINOIS
SCOTT A. WECHTER
REG. 62-042188
REGISTERED PROFESSIONAL ENGINEER

I, SCOTT A. WECHTER, CERTIFY TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE UTILITY INFORMATION DEPICTED BY SAM, LLC. ON THIS PLAN SHEET WAS OBTAINED AND COMPILED UNDER MY DIRECT SUPERVISION USING ACCEPTED PRACTICES AND PROCEDURES.

SCOTT A. WECHTER
PROJECT MANAGER SAM, LLC

171667_SUE.DGN	Designated By: B.J. E.F.
Scale: 1"=100'	Drafted By: P.B.
Sheets: 3	Checked By: S.W.
Date: 02-01-2019	1018047041

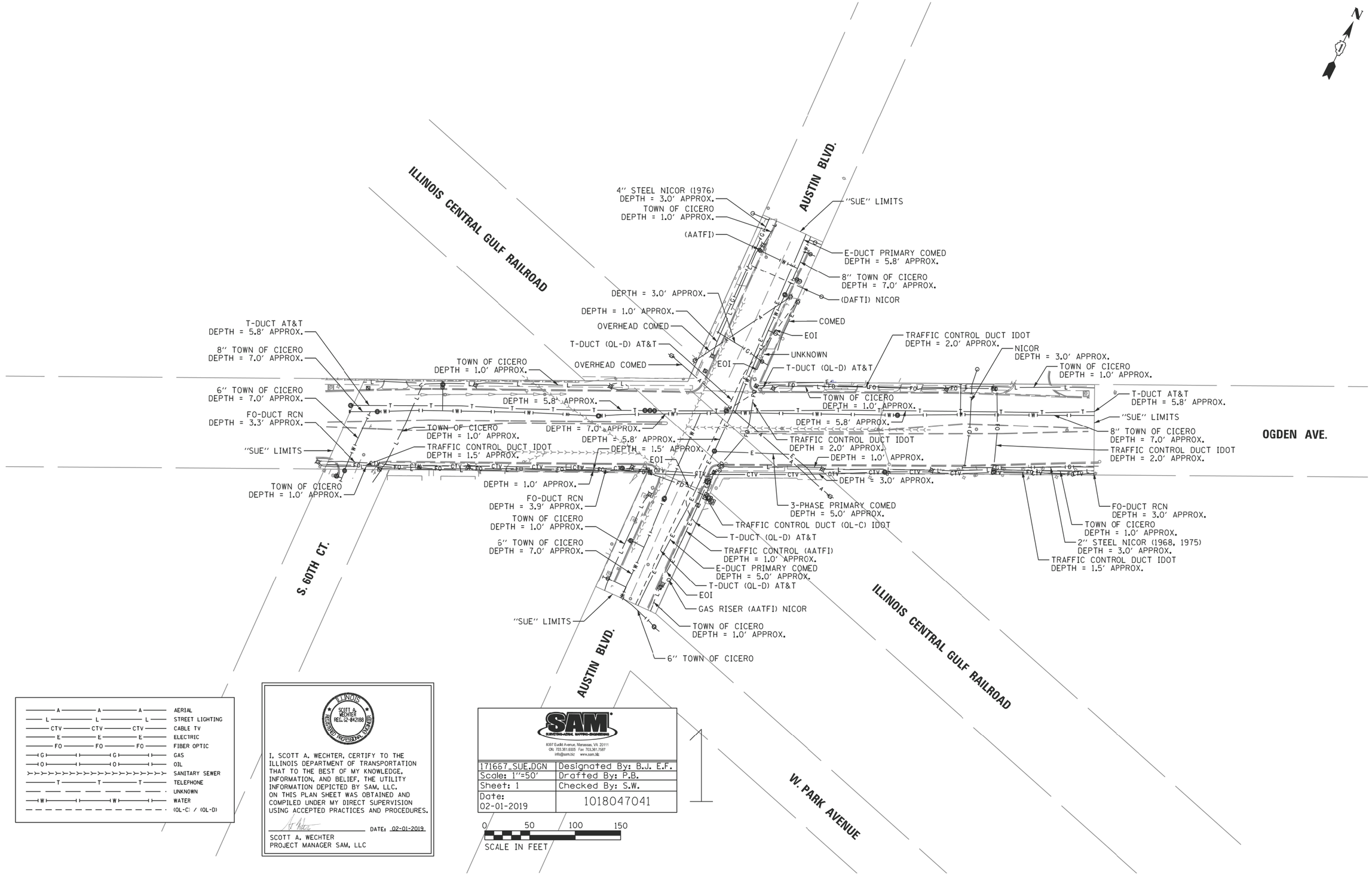
USER NAME = plascencial	DESIGNED - BF, EF	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	DRAWN - PB	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - SW	REVISED -	
PLOT DATE = 3/30/2020	DATE - 2/1/2019	REVISED -	

SUE PLAN (SHEET 1 OF 2)
OGDEN AVE AT AUSTIN BLVD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	18A
		CONTRACT NO. 62G02		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: S:\WP\Design\Invoice\03_InHouse_TrafficEast\Phase2\62G02_OgdenAve@AustinBlvd\CAD\62G02-SUE-Sheets.dgn



AERIAL	A
STREET LIGHTING	L
CABLE TV	CTV
ELECTRIC	E
FIBER OPTIC	FO
GAS	G
OIL	O
SANITARY SEWER	
TELEPHONE	T
UNKNOWN	
WATER	W
(OL-C) / (OL-D)	

ILLINOIS
SCOTT A. WECHTER
REG. 52-042188
REGISTERED PROFESSIONAL ENGINEER

I, SCOTT A. WECHTER, CERTIFY TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE UTILITY INFORMATION DEPICTED BY SAM, LLC. ON THIS PLAN SHEET WAS OBTAINED AND COMPILED UNDER MY DIRECT SUPERVISION USING ACCEPTED PRACTICES AND PROCEDURES.

DATE: 02-01-2019

SCOTT A. WECHTER
PROJECT MANAGER SAM, LLC

SAM
SURVEYING-AERIAL MAPPING-ENGINEERING
8397 Euclid Avenue, Manassas, VA 20111
Ofc: 703.361.6005 Fax: 703.361.7587
info@sam.biz www.sam.biz

171667_SUE.DGN	Designated By: B.J. E.F.
Scale: 1"=50'	Drafted By: P.B.
Sheet: 1	Checked By: S.W.
Date: 02-01-2019	1018047041

0 50 100 150
SCALE IN FEET

USER NAME = plascenciai	DESIGNED - BF, EF	REVISED -	
	DRAWN - PB	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - SW	REVISED -	
PLOT DATE = 3/30/2020	DATE - 2/1/2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUE PLAN (SHEET 2 OF 2)
OGDEN AVE AT AUSTIN BLVD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	18B
		CONTRACT NO. 62G02		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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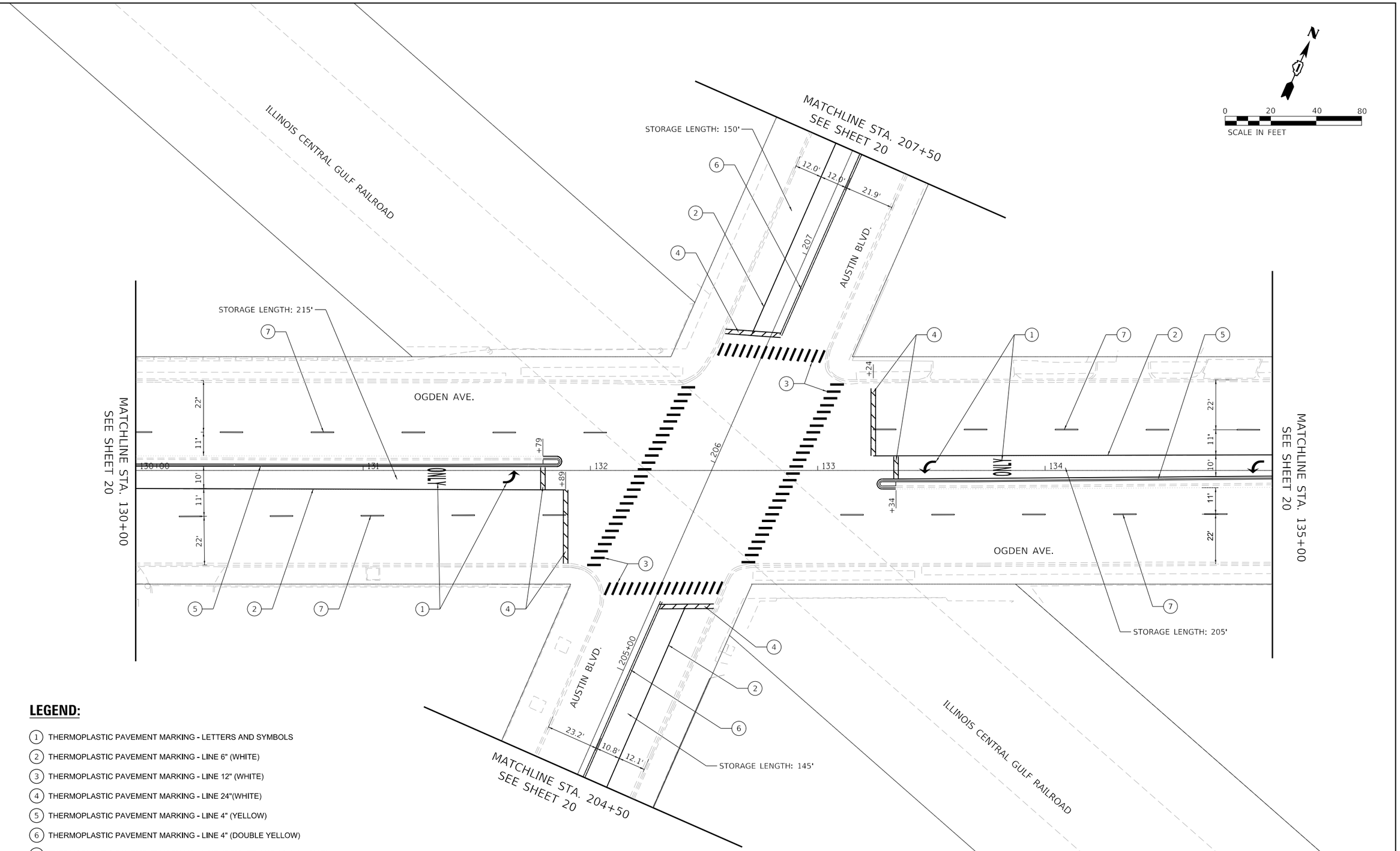

LEGEND:

1. THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
2. THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE)
3. THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE)
4. THERMOPLASTIC PAVEMENT MARKING - LINE 24"(WHITE)
5. THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW)
6. THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)
7. THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10' DASH, 30' SKIP)
8. THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2' DASH, 6' SKIP)

MODEL: Default
FILE NAME: S:\Projects\1804 - IDOT Traffic Signal Design - EJM\Project Work\CADD\WO_18-008 - Ogden_Austin Civil\CADD_Sheets\18-008_sht_PMK-01.dgn

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411 South Wells Street Suite 1000
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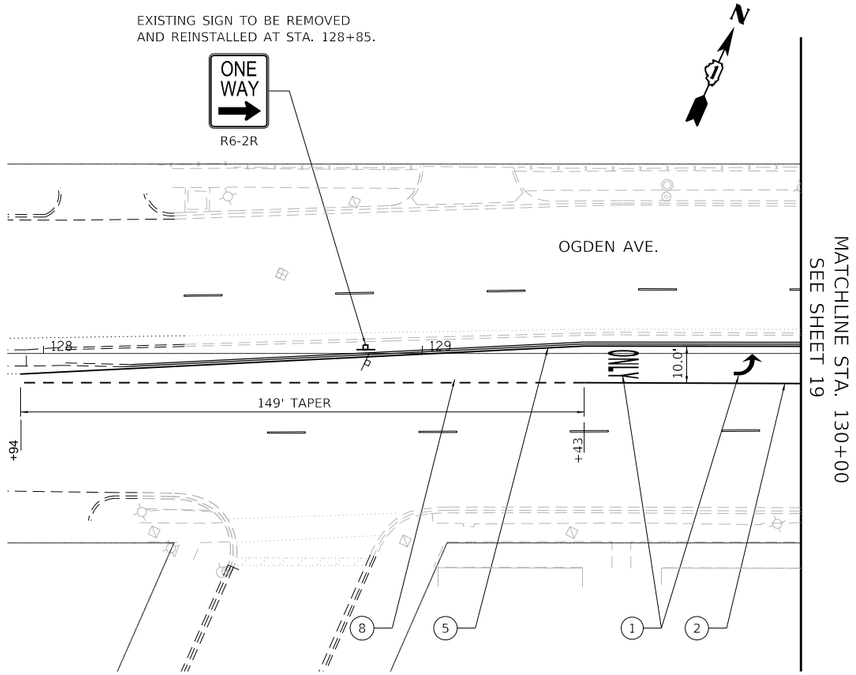
USER NAME = rjacox	DESIGNED - N. SALEHIAN	REVISED - 3/25/2020
	DRAWN - P. SCOTT	REVISED -
PLOT SCALE = 40.0031 ' / in.	CHECKED - C. GUTOWSKI	REVISED -
PLOT DATE = 4/2/2020	DATE - 3/16/2020	REVISED -

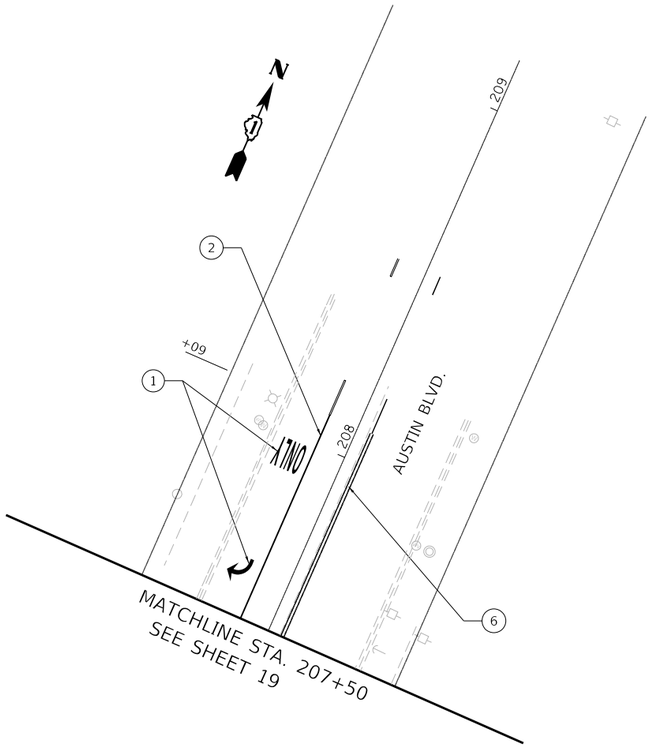
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN (SHEET 1 OF 2)
OGDEN AVE AT AUSTIN BLVD

SCALE: 1'=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	19
		CONTRACT NO. 62G02		
	ILLINOIS FED. AID PROJECT			





LEGEND:

1. THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
2. THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE)
3. THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE)
4. THERMOPLASTIC PAVEMENT MARKING - LINE 24"(WHITE)
5. THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW)
6. THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)
7. THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10' DASH, 30' SKIP)
8. THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2' DASH, 6' SKIP)

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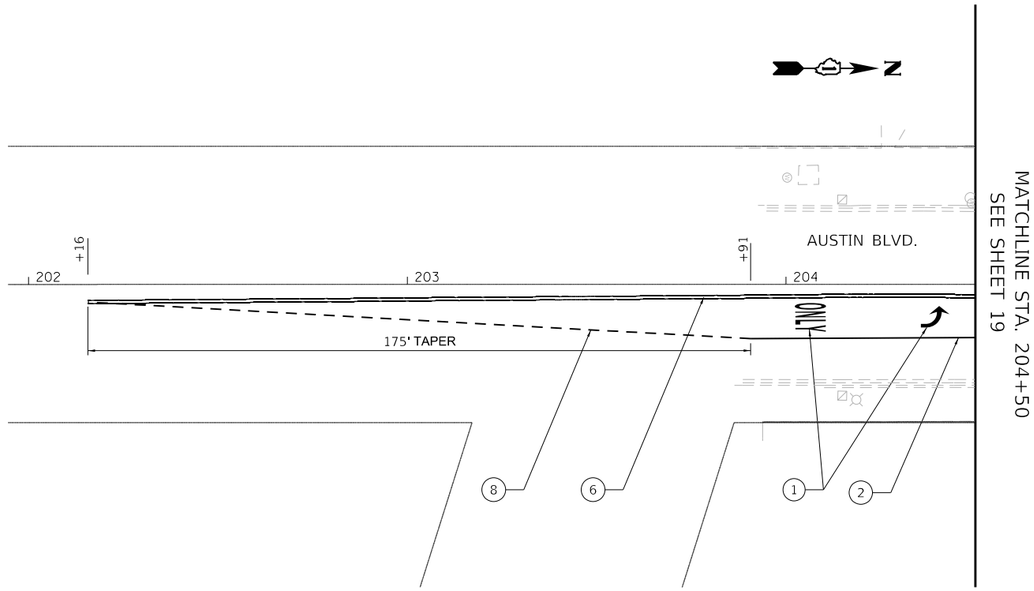
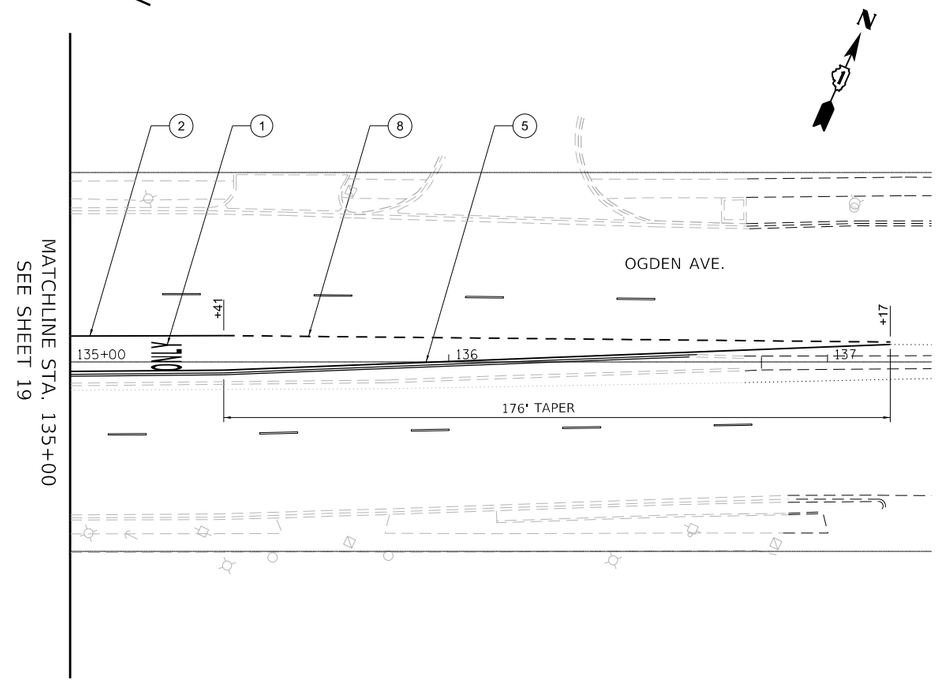
SCALE IN FEET





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FILE NAME: S:\Projects\1804 - IDOT Traffic Signal Design - EMA\Project Work\CADD\WO_18-008 - Ogden Austin Civil\CADD Sheets\18-008_sht_PMK-02.dgn

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411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = rjacox	DESIGNED - N. SALEHIAN	REVISED - 3/25/2020
	DRAWN - P. SCOTT	REVISED -
PLOT SCALE = 40.0031 ' / in.	CHECKED - C. GUTOWSKI	REVISED -
PLOT DATE = 4/2/2020	DATE - 3/16/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN (SHEET 2 OF 2)
OGDEN AVE AT AUSTIN BLVD

SCALE: 1'=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	20
		CONTRACT NO. 62G02		
	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED
CONTROLLER CABINET		
COMMUNICATION CABINET	CC	CC
MASTER CONTROLLER	MC	MC
MASTER MASTER CONTROLLER	MMC	MMC
UNINTERRUPTABLE POWER SUPPLY		
SERVICE INSTALLATION -(P) POLE MOUNTED	P	P
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	G GM	G GM
TELEPHONE CONNECTION	ET	T
STEEL MAST ARM ASSEMBLY AND POLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		BM
WOOD POLE		
GUY WIRE		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD OPTICALLY PROGRAMMED	P P	P P
FLASHER INSTALLATION -(FS) SOLAR POWERED	F FS F FS	F FS F FS
PEDESTRIAN SIGNAL HEAD		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	APS	APS
RADAR DETECTION SENSOR	R	R
VIDEO DETECTION CAMERA	V	V
RADAR/VIDEO DETECTION ZONE		
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIMATION BEACON		
WIRELESS INTERCONNECT		
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR

ITEM	EXISTING	PROPOSED
HANDHOLE -SQUARE -ROUND		
HEAVY DUTY HANDHOLE -SQUARE -ROUND	H	H
DOUBLE HANDHOLE		
JUNCTION BOX	J	J
RAILROAD CANTILEVER MAST ARM		
RAILROAD FLASHING SIGNAL		
RAILROAD CROSSING GATE		
RAILROAD CROSSBUCK		
RAILROAD CONTROLLER CABINET	RX	RX
UNDERGROUND CONDUIT (UC), GALVANIZED STEEL		
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		
SYSTEM ITEM	S	SP
INTERSECTION ITEM	I	IP
REMOVE ITEM		R
RELOCATE ITEM		RL
ABANDON ITEM		A
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF
MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF
SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF
DETECTOR LOOP, TYPE I		
PREFORMED DETECTOR LOOP	P P	P P
SAMPLING (SYSTEM) DETECTOR	S S	S S
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS IS	IS IS
QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS QS	QS QS
WIRELESS DETECTOR SENSOR	W	W
WIRELESS ACCESS POINT		

ITEM	EXISTING	PROPOSED
SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	R Y G ◄Y ◄G (P)	R Y G ◄Y ◄G (P)
SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	R Y G ◄Y ◄G (P) (RB)	R Y G ◄Y ◄G (P) (RB)
PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	C D	C D
ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED	5	5
GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	1#6
ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	1	1
COAXIAL CABLE	C	C
VENDOR CABLE	V	V
COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6#18	6#18
FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	12F 24F 36F	12F 24F 36F
GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	C M P S	C M P S

MODEL: $MODELNAME$
FILE NAME: $FILE$

USER NAME = $USER$	DESIGNED - IP	REVISED -	
	DRAWN - IP	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - LP	REVISED -	
PLOT DATE = $DATE$	DATE - 9/29/2016	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 1 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	21
	TS–05	CONTRACT NO. 62G02		
		ILLINOIS	FED. AID PROJECT	

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.

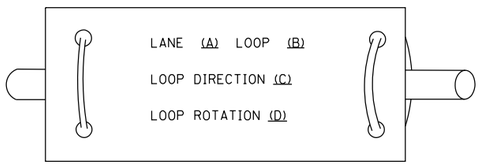
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

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

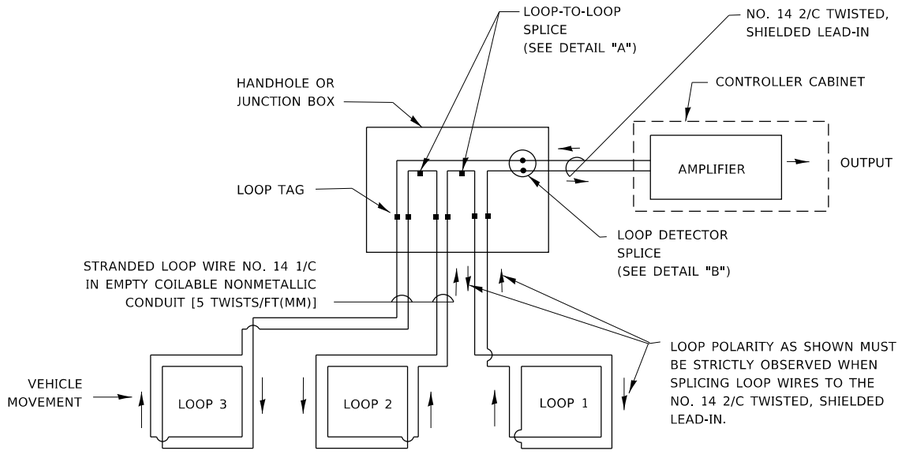


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

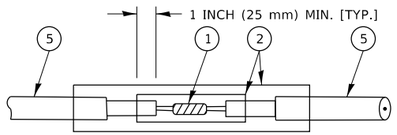
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

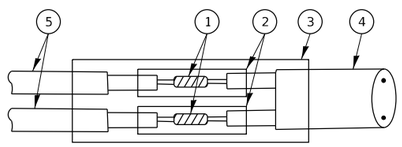


DETECTOR LOOP WIRING SCHEMATIC

- 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.

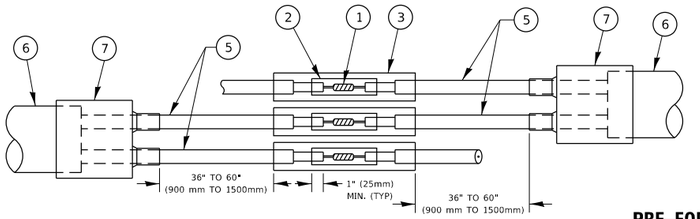


DETAIL "A"
LOOP-TO-LOOP SPLICE



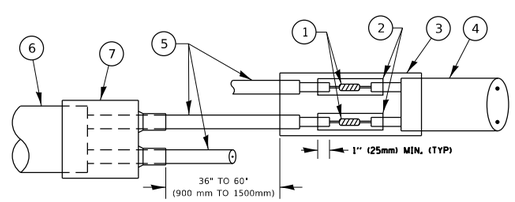
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE–FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. 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.

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

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. PRE-FORMED LOOP

(6) XL POLYOLEFIN 2 CONDUCTOR

(7) BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

MODEL: $MODELNAME$
FILE NAME: $FILE$

USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
PLOT DATE = $DATE$	DATE -	REVISED -	

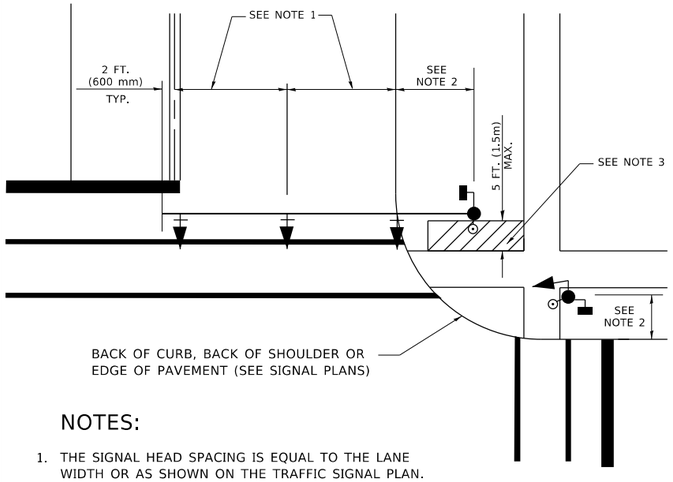
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 2 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	22
	TS–05	CONTRACT NO. 62G02		
	ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

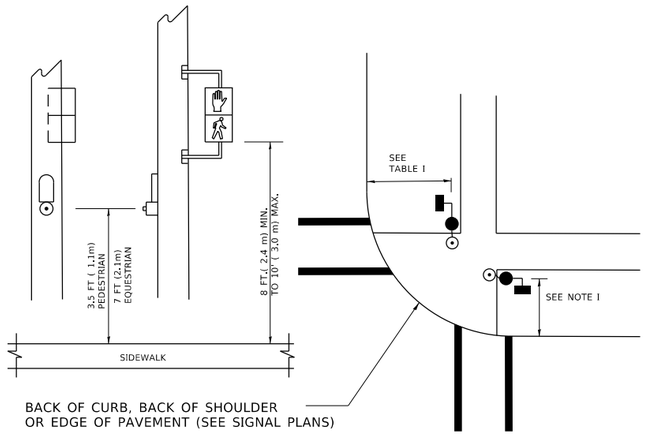
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
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 THE SIGNAL POST.
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 FACILITIES."

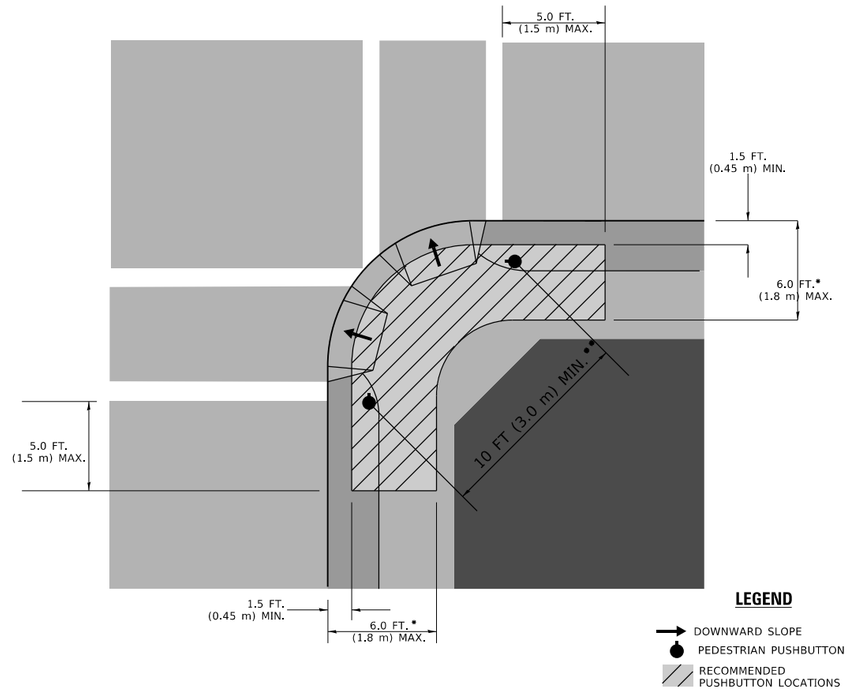
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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."

RECOMMENDED PUSHBUTTON LOCATIONS



* 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

TRAFFIC SIGNAL EQUIPMENT	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.

MODEL: $MODELNAME$
FILE NAME: $FILE$

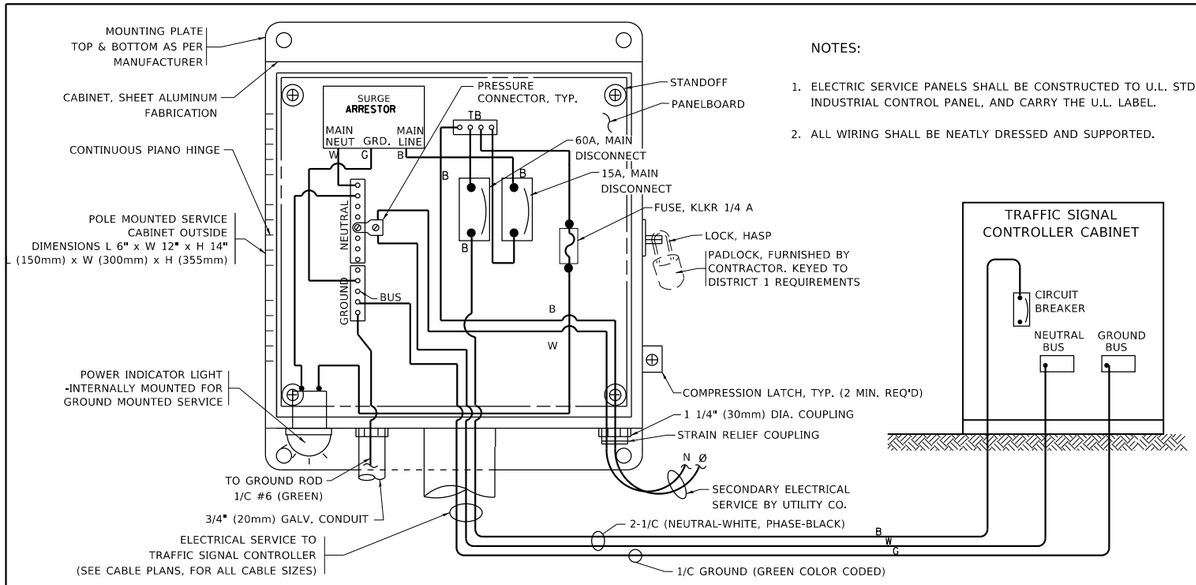
USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
PLOT DATE = $DATE$	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 3 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	23
	TS–05	CONTRACT NO. 62G02		
	ILLINOIS	FED. AID PROJECT		



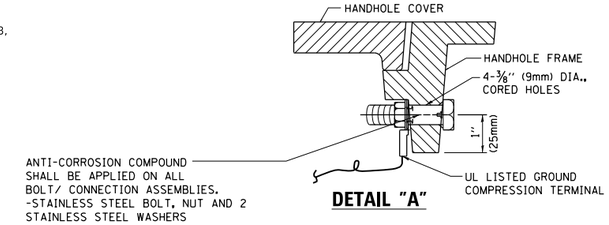
NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

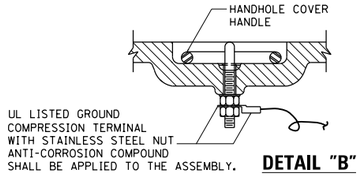
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)



DETAIL "A"

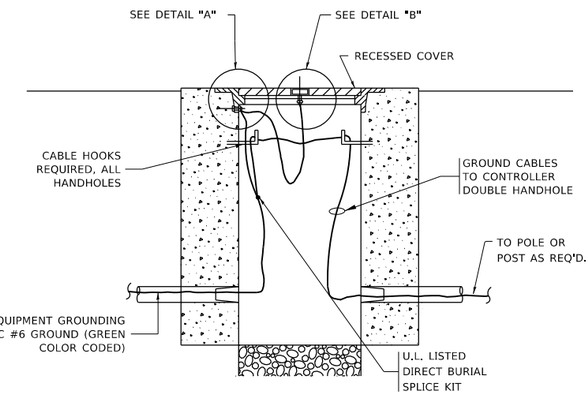


DETAIL "B"

NOTES:

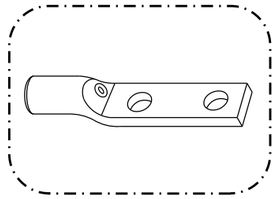
GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC,). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

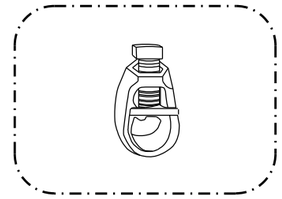


HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



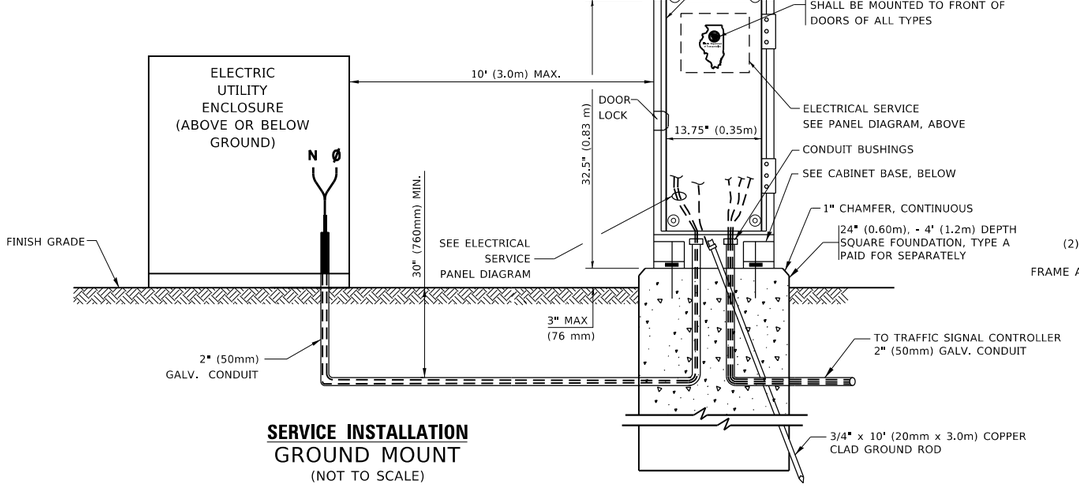
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



¾" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

NOTES:

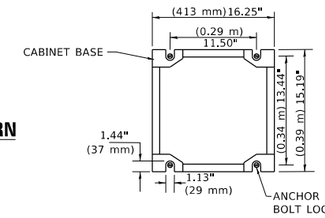
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



SERVICE INSTALLATION

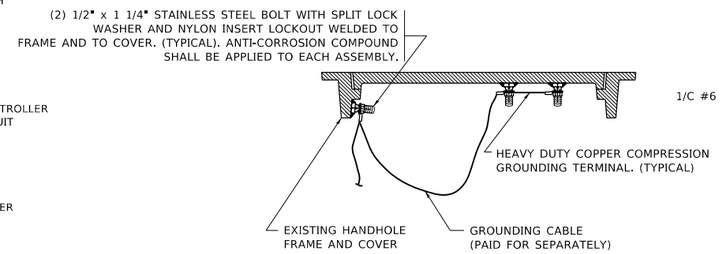
GROUND MOUNT

(NOT TO SCALE)



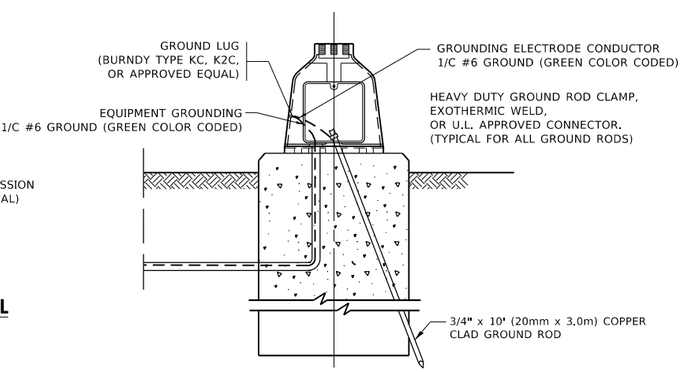
CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE /POST–GROUNDING DETAIL

(NOT TO SCALE)

MODEL: $MODELNAME$
FILE NAME: $FILE1$

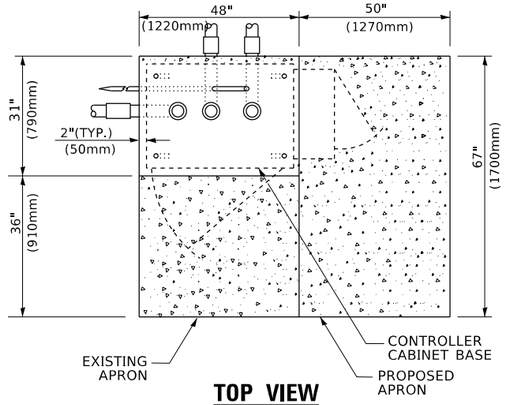
USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
PLOT DATE = $DATE$	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

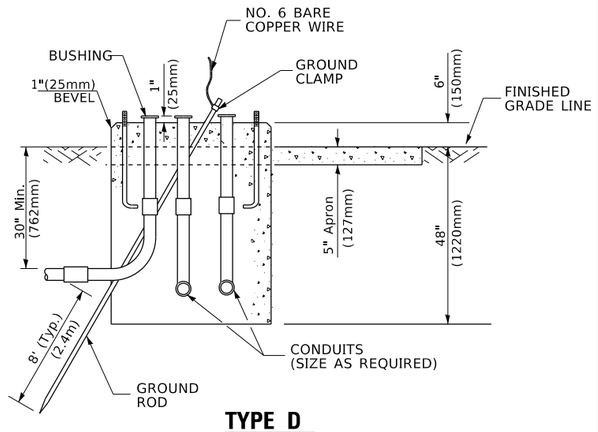
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 4 OF 7 SHEETS | STA. | TO STA.

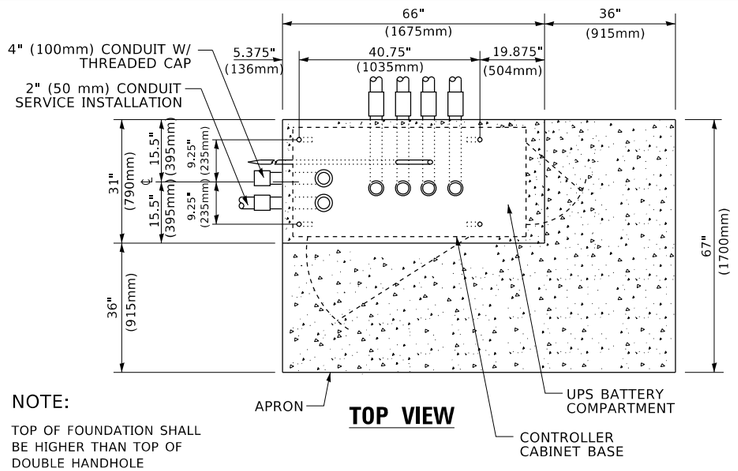
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	24
	TS–05	CONTRACT NO. 62G02		
	ILLINOIS FED. AID PROJECT			



TOP VIEW



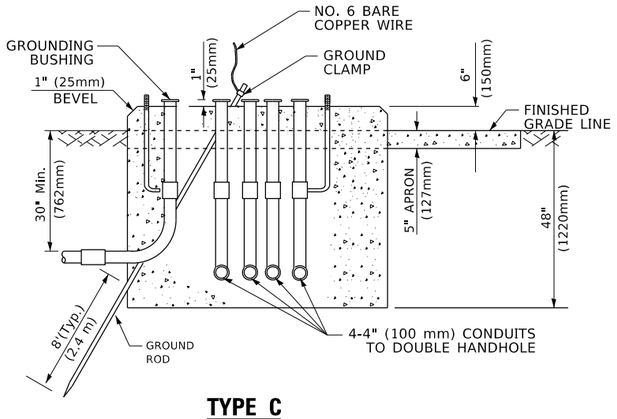
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



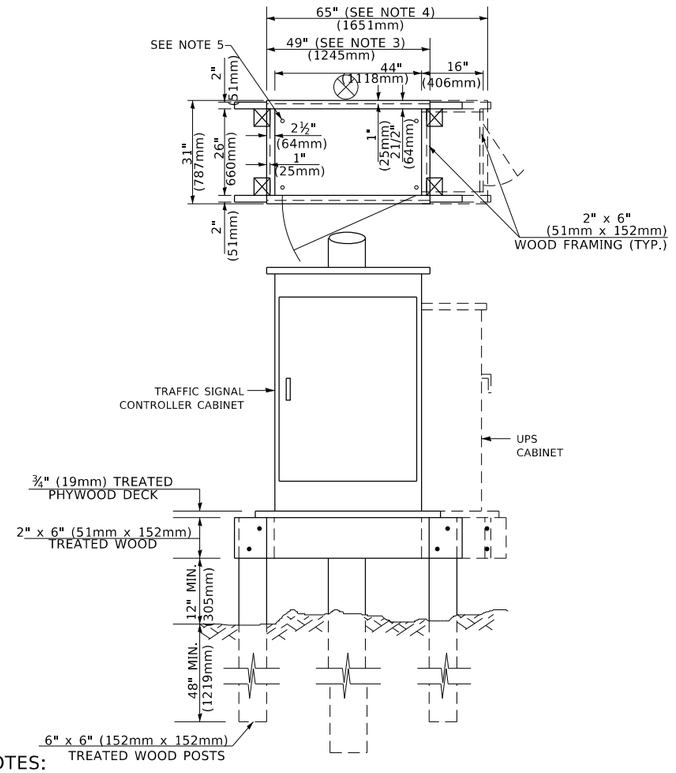
NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE

TOP VIEW



TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS



NOTES:

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

CABLE SLACK

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)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	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 - SQUARE	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 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	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:

1. 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 (Qu) > 1.0 tsf (100 kpa). 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 mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
4. For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

MODEL: $MODELNAME$
FILE NAME: $FILE$

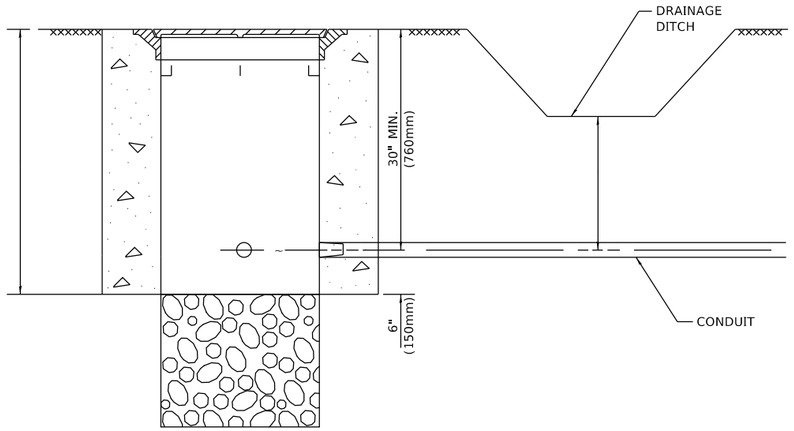
USER NAME = $USER$	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
PLOT DATE = $DATE$	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 5 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	25
	TS-05	CONTRACT NO. 62G02		
	ILLINOIS FED. AID PROJECT			

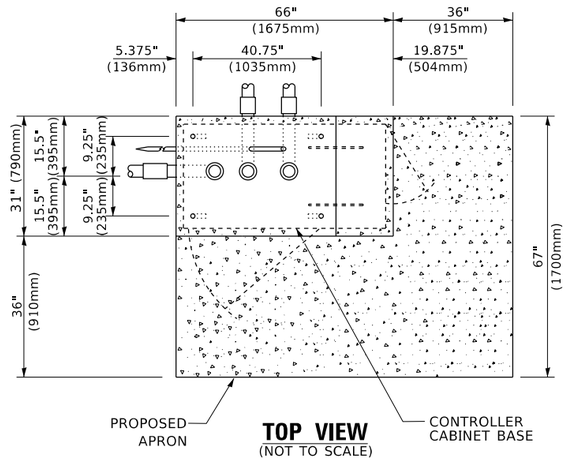


NOTES:

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.

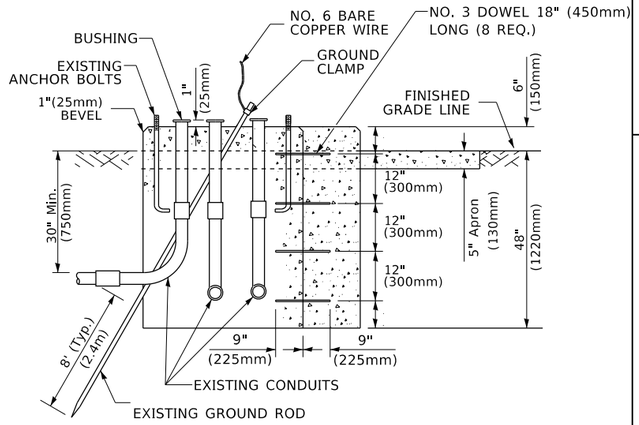
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



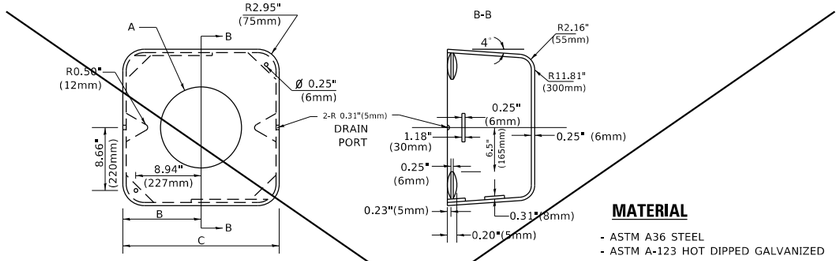
TOP VIEW

(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)



MATERIAL

- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	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)

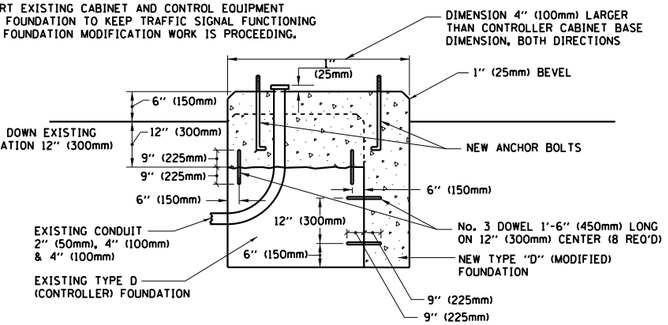
SHROUD

NOTES:

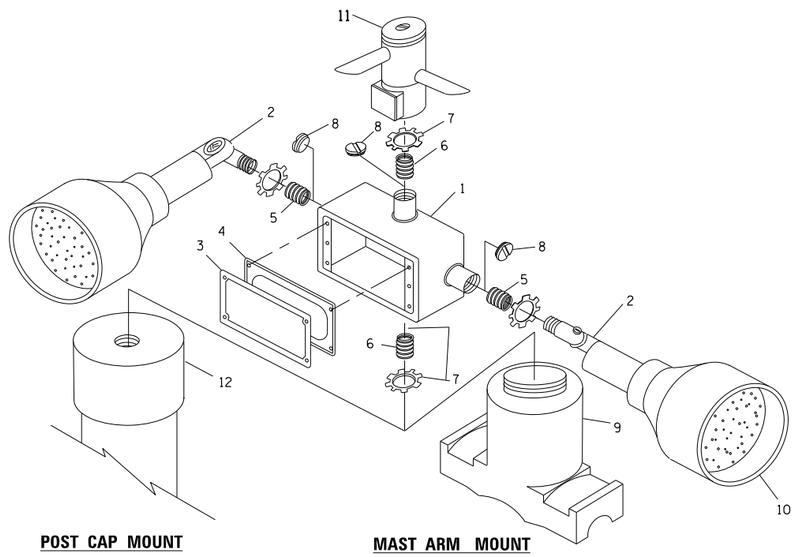
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



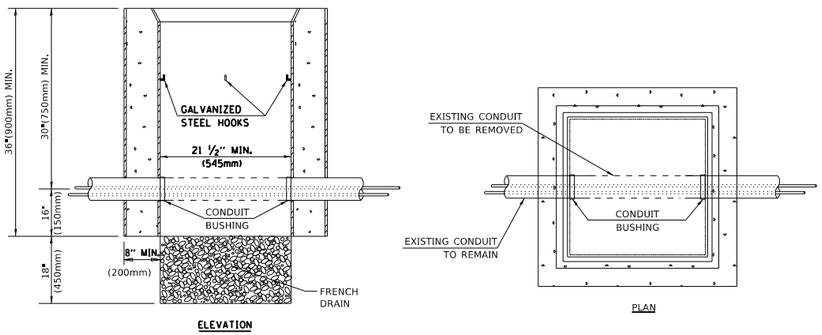
POST CAP MOUNT **MAST ARM MOUNT**

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
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.



NOTES:

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

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	DRAWN -	REVISED -
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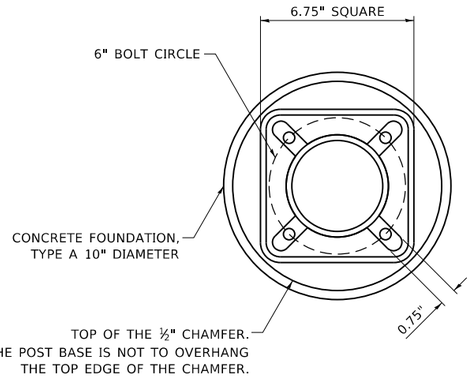
PLOT DATE = 3/24/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 6 OF 7 SHEETS | STA. | TO STA.

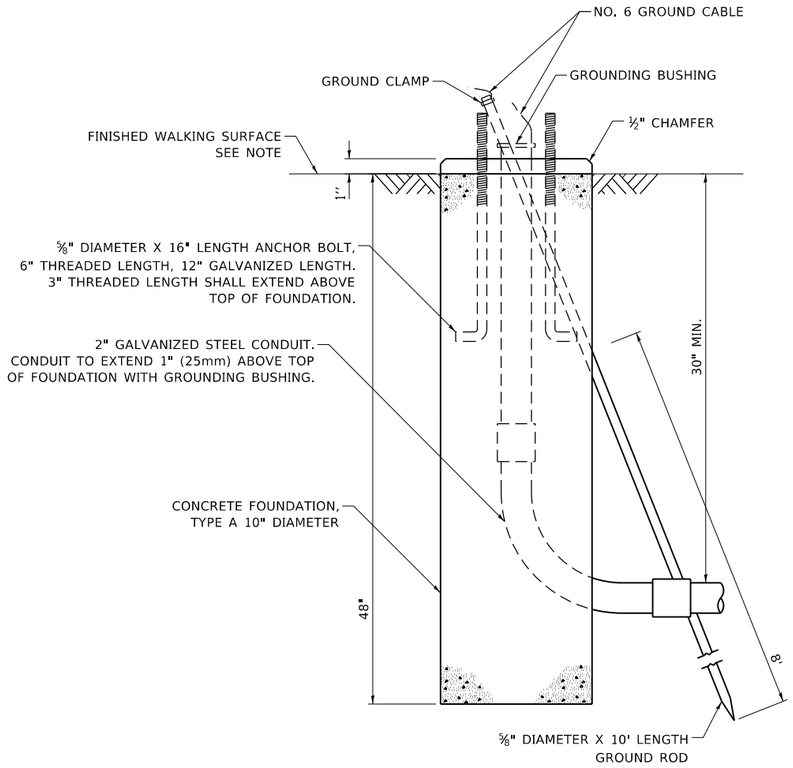
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	26
	TS-05	CONTRACT NO. 62G02		
		ILLINOIS	FED. AID PROJECT	



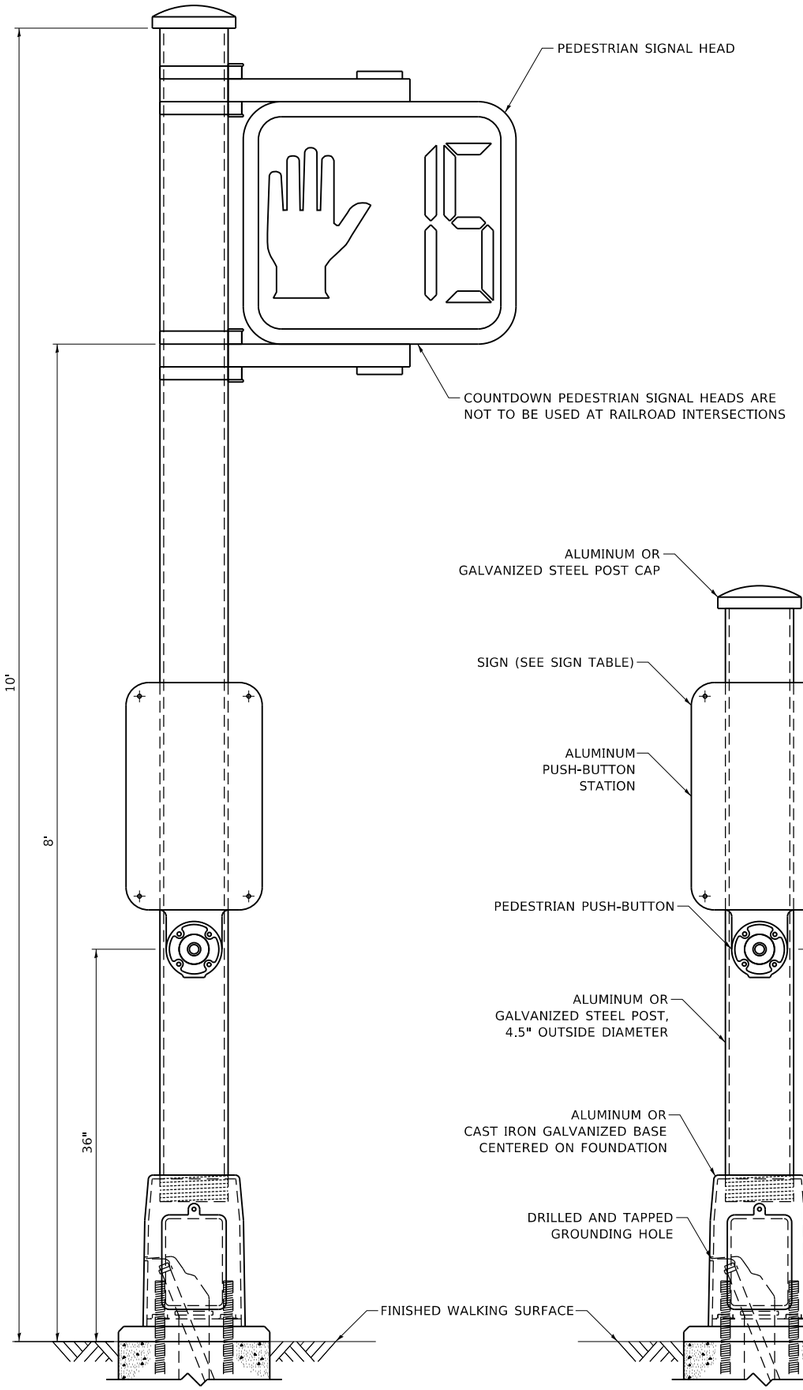
BOLT PATTERN

NOTE:

1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.

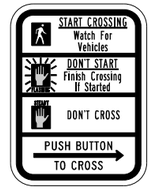


CONCRETE FOUNDATION, TYPE A 10–INCH DIAMETER



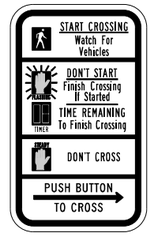
PEDESTRIAN SIGNAL POST, 10 FT.

PEDESTRIAN SIGNAL POST, 5 FT.



R10-3b

R10-3d



R10-3e

SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 15"

NOTES:

1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

MODEL: Default
FILE NAME: S:\WP\Design\Jovan\103_InHouse_Traffic\Lvl1_Phase2\62G02_OgdenAve@AustinBlvd\CAD\62G02-sht-general.dgn

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	DRAWN - IP	REVISED -	
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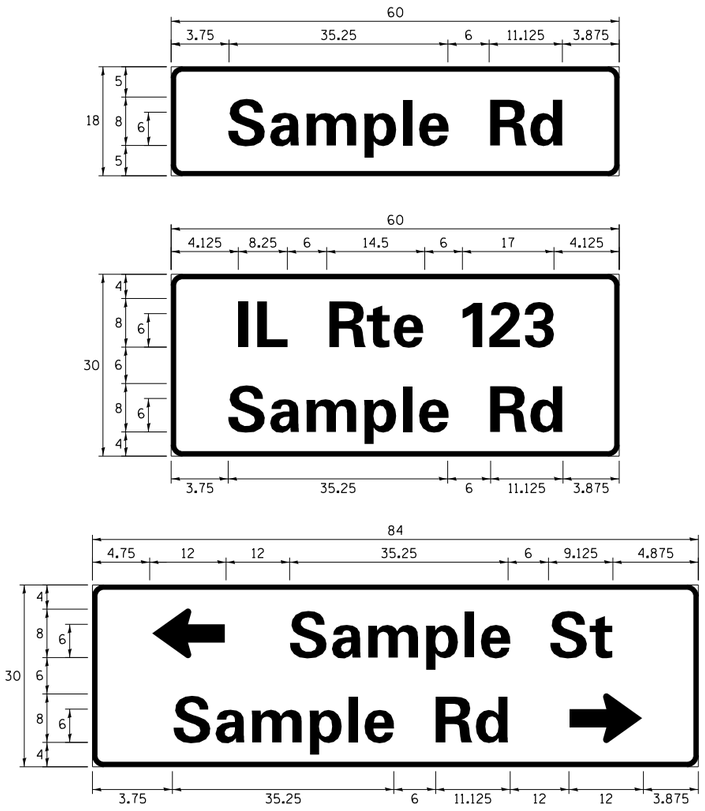
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 7 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	27
	TS–05	CONTRACT NO. 62G02		
	ILLINOIS FED. AID PROJECT			

SIGN PANEL – TYPE 1 OR TYPE 2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.

2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)

3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE ¾" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.

4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8"-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.

5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.

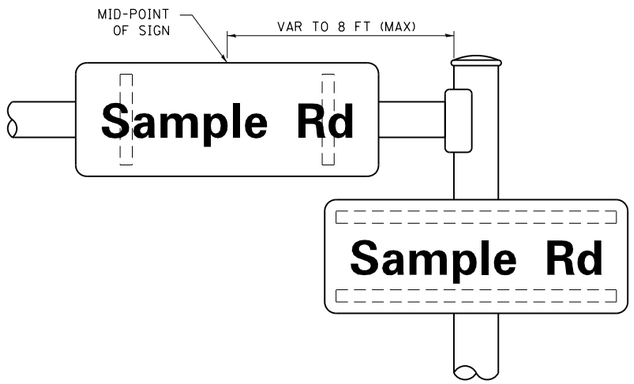
6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:	PARTS LISTING:	
- J.O. HERBERT COMPANY, INC MIDLOTHIAN, VA	SIGN CHANNEL	PART #HPN053 (MED. CHANNEL)
	SIGN SCREWS	1/4" x 14 x 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER
- WESTERN REMAC, INC. WOODRIDGE, IL	BRACKETS	PART #HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

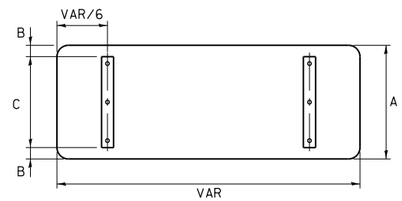
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

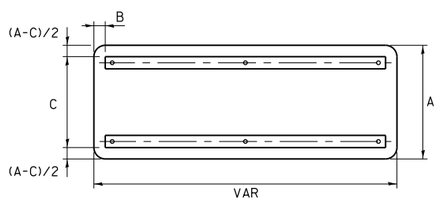
ARM OR POLE MOUNTED



SUPPORTING CHANNELS



A	B	C
18"	2"	14"
30"	2"	24"



A	B	C
18"	2"	12"
30"	2"	22"

STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

MODEL: $MODELNAME$
FILE NAME: $FILE$

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	DRAWN - LP	REVISED -	
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PLOT DATE = $DATE$	DATE - 10/01/2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

SCALE: NONE | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	28
	TS-02	CONTRACT NO. 62G02		
	ILLINOIS	FED. AID PROJECT		

REMOVAL AND RELOCATION NOTES:

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

1	EACH	CONTROLLER AND CABINET (COMPLETE)
2	EACH	STEEL MAST ARM ASSEMBLY AND POST
5	EACH	TRAFFIC SIGNAL POST
10	EACH	3-SECTION SIGNAL HEAD
4	EACH	5-SECTION SIGNAL HEAD
8	EACH	PEDESTRIAN SIGNAL HEAD
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	SERVICE INSTALLATION
4	EACH	TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

TOWN OF CICERO
NICK TELITZ
TOWN ELECTRICIAN
(708) 878-3109

2	EACH	CONFIRMATION BEACON
2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE EXISTING MAST ARMS FOR OPERATION DURING CONSTRUCTION (SEE NOTES 3 AND 4):

1	EACH	3-SECTION SIGNAL HEAD
1	EACH	PEDESTRIAN SIGNAL HEAD
1	EACH	PEDESTRIAN PUSH-BUTTON

AT THE END OF CONSTRUCTION AND AS DIRECTED BY THE ENGINEER, THESE ITEMS MAY BE DISPOSED OF BY THE CONTRACTOR OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

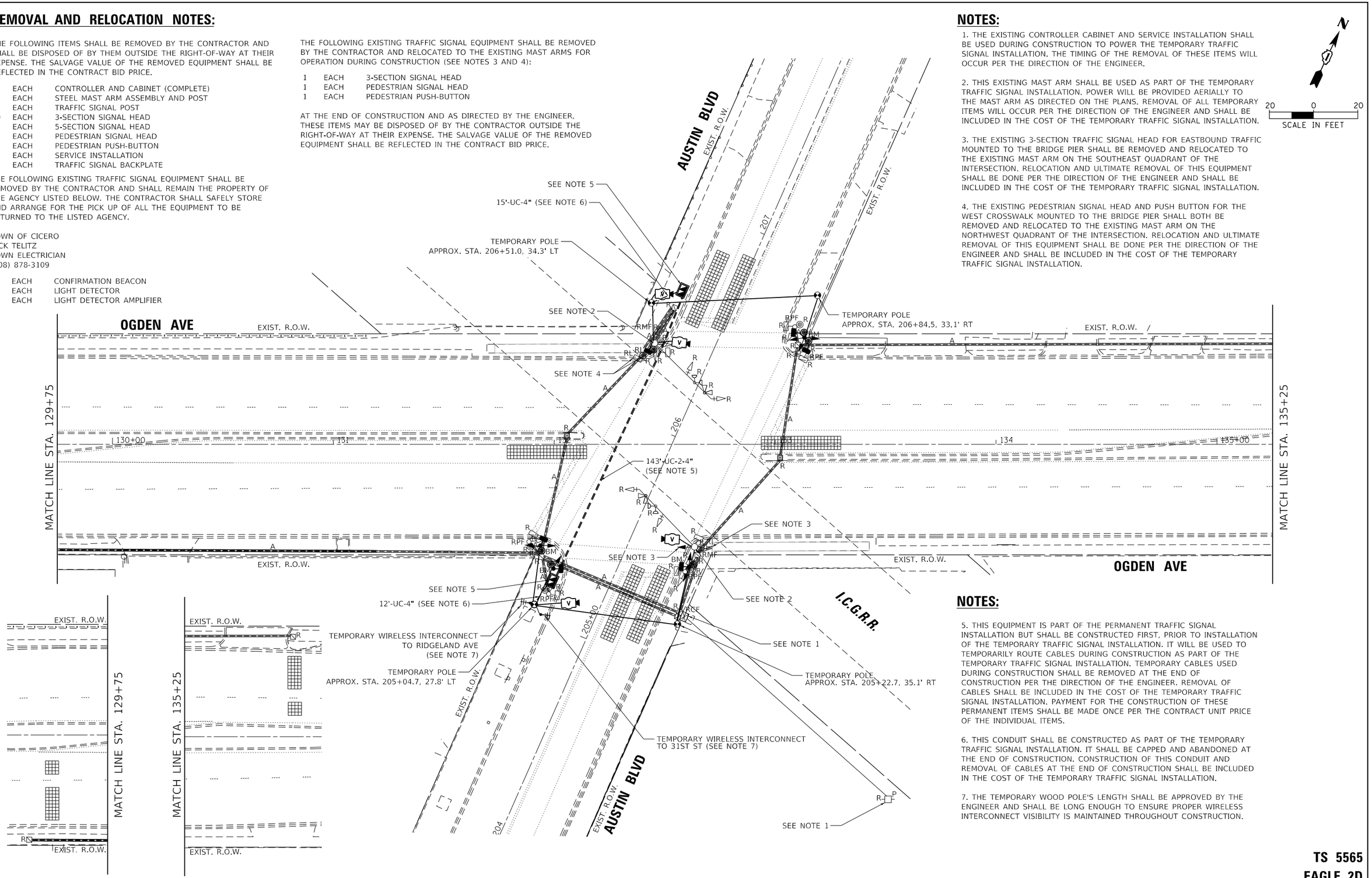
NOTES:

1. THE EXISTING CONTROLLER CABINET AND SERVICE INSTALLATION SHALL BE USED DURING CONSTRUCTION TO POWER THE TEMPORARY TRAFFIC SIGNAL INSTALLATION. THE TIMING OF THE REMOVAL OF THESE ITEMS WILL OCCUR PER THE DIRECTION OF THE ENGINEER.

2. THIS EXISTING MAST ARM SHALL BE USED AS PART OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION. POWER WILL BE PROVIDED AERIALLY TO THE MAST ARM AS DIRECTED ON THE PLANS. REMOVAL OF ALL TEMPORARY ITEMS WILL OCCUR PER THE DIRECTION OF THE ENGINEER AND SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

3. THE EXISTING 3-SECTION TRAFFIC SIGNAL HEAD FOR EASTBOUND TRAFFIC MOUNTED TO THE BRIDGE PIER SHALL BE REMOVED AND RELOCATED TO THE EXISTING MAST ARM ON THE SOUTHEAST QUADRANT OF THE INTERSECTION. RELOCATION AND ULTIMATE REMOVAL OF THIS EQUIPMENT SHALL BE DONE PER THE DIRECTION OF THE ENGINEER AND SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

4. THE EXISTING PEDESTRIAN SIGNAL HEAD AND PUSH BUTTON FOR THE WEST CROSSWALK MOUNTED TO THE BRIDGE PIER SHALL BOTH BE REMOVED AND RELOCATED TO THE EXISTING MAST ARM ON THE NORTHWEST QUADRANT OF THE INTERSECTION. RELOCATION AND ULTIMATE REMOVAL OF THIS EQUIPMENT SHALL BE DONE PER THE DIRECTION OF THE ENGINEER AND SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.



NOTES:

5. THIS EQUIPMENT IS PART OF THE PERMANENT TRAFFIC SIGNAL INSTALLATION BUT SHALL BE CONSTRUCTED FIRST, PRIOR TO INSTALLATION OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION. IT WILL BE USED TO TEMPORARILY ROUTE CABLES DURING CONSTRUCTION AS PART OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION. TEMPORARY CABLES USED DURING CONSTRUCTION SHALL BE REMOVED AT THE END OF CONSTRUCTION PER THE DIRECTION OF THE ENGINEER. REMOVAL OF CABLES SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION. PAYMENT FOR THE CONSTRUCTION OF THESE PERMANENT ITEMS SHALL BE MADE ONCE PER THE CONTRACT UNIT PRICE OF THE INDIVIDUAL ITEMS.

6. THIS CONDUIT SHALL BE CONSTRUCTED AS PART OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION. IT SHALL BE CAPPED AND ABANDONED AT THE END OF CONSTRUCTION. CONSTRUCTION OF THIS CONDUIT AND REMOVAL OF CABLES AT THE END OF CONSTRUCTION SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

7. THE TEMPORARY WOOD POLE'S LENGTH SHALL BE APPROVED BY THE ENGINEER AND SHALL BE LONG ENOUGH TO ENSURE PROPER WIRELESS INTERCONNECT VISIBILITY IS MAINTAINED THROUGHOUT CONSTRUCTION.

TS 5565
EAGLE 2D

MODEL: Default
FILE NAME: S:\Projects\1804 - IDOT Traffic Signal Design - EJM\Project Work\CADD\WO_18-005 - Ogden Austin\CADD Sheets\Traffic Signal Sheets\18-005_sht_TS09.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = rjacox	DESIGNED - R. JACOX	REVISED -	3/25/2020
	DRAWN - D. BRUSICH	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - G. GEDEMER	REVISED -	
PLOT DATE = 4/24/2020	DATE - 3/16/2020	REVISED -	

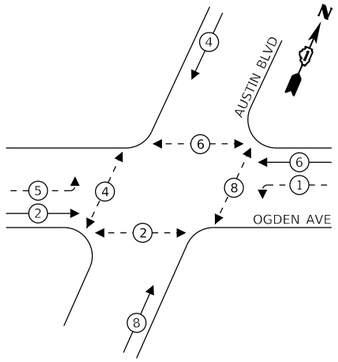
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
OGDEN AVE AND AUSTIN BLVD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-5-2(TS)	COOK	42	29
		CONTRACT NO. 62G02		
	ILLINOIS FED. AID PROJECT			

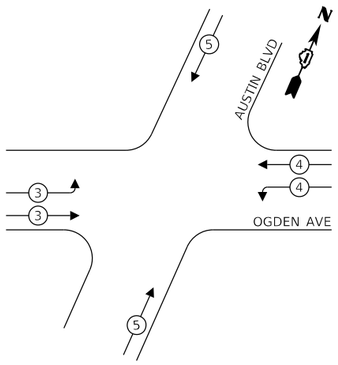
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



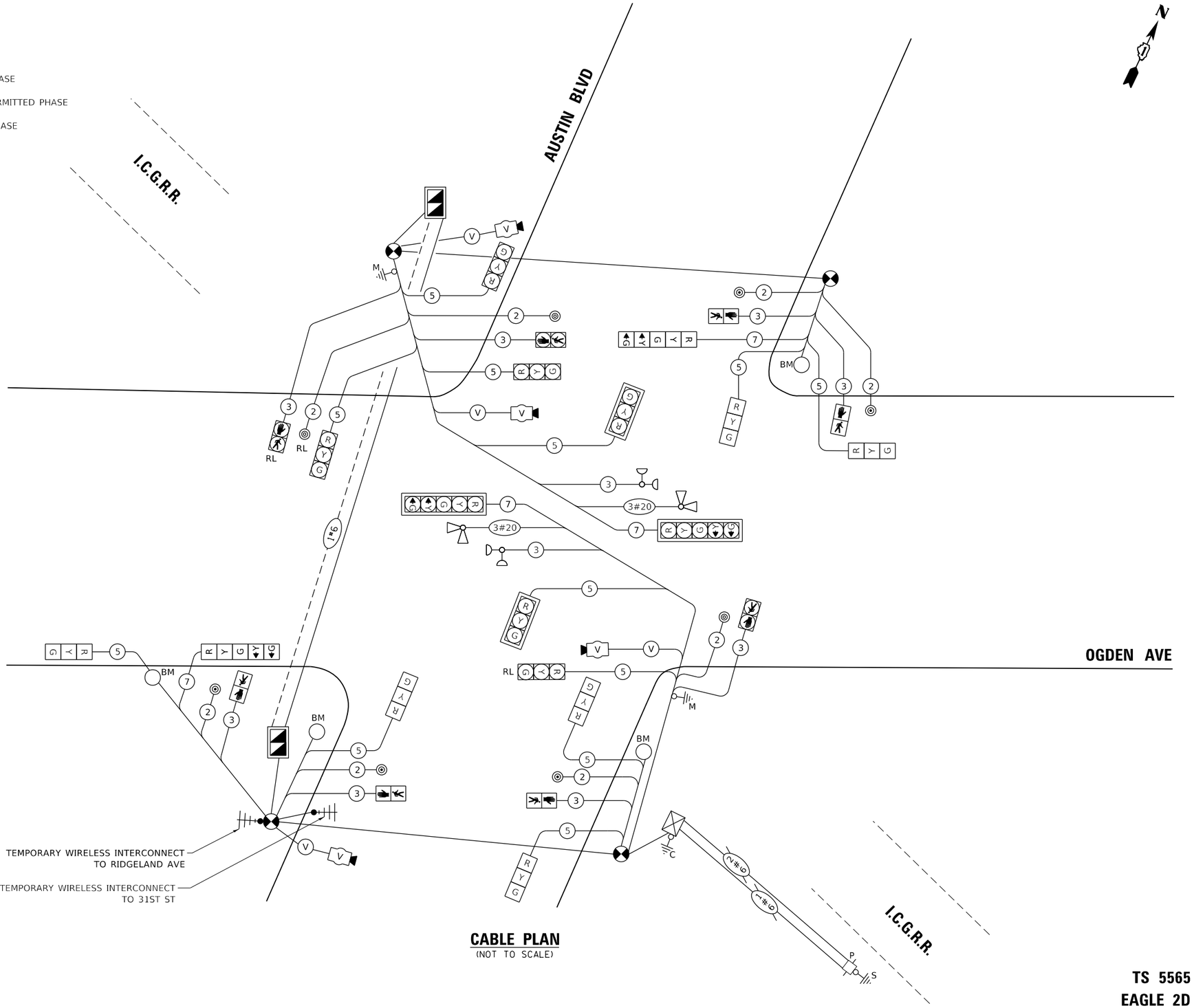
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	0	25	100	-
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	458.4

ENERGY COSTS TO:

TOWN OF CICERO
4949 W. CERMAK RD
CICERO, IL 60804

ENERGY SUPPLY: CONTACT: MARSHA CAMPBELL
PHONE: (773) 270-7073
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:



CABLE PLAN
(NOT TO SCALE)

TS 5565
EAGLE 2D

MODEL: Default
FILE NAME: S:\Projects\1804 - IDOT Traffic Signal Design - EJM\Project Work\CADD\WO_18-005 - Ogden_Austin\CADD Sheets\Traffic Signal Sheets\18-005_sht_TS10.dgn

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411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = rjacox	DESIGNED - R. JACOX	REVISED - 3/25/2020
	DRAWN - D. BRUSICH	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - G. GEDEMER	REVISED -
PLOT DATE = 4/24/2020	DATE - 3/16/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
OGDEN AVE AND AUSTIN BLVD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	30
		CONTRACT NO. 62G02		
	ILLINOIS FED. AID PROJECT			

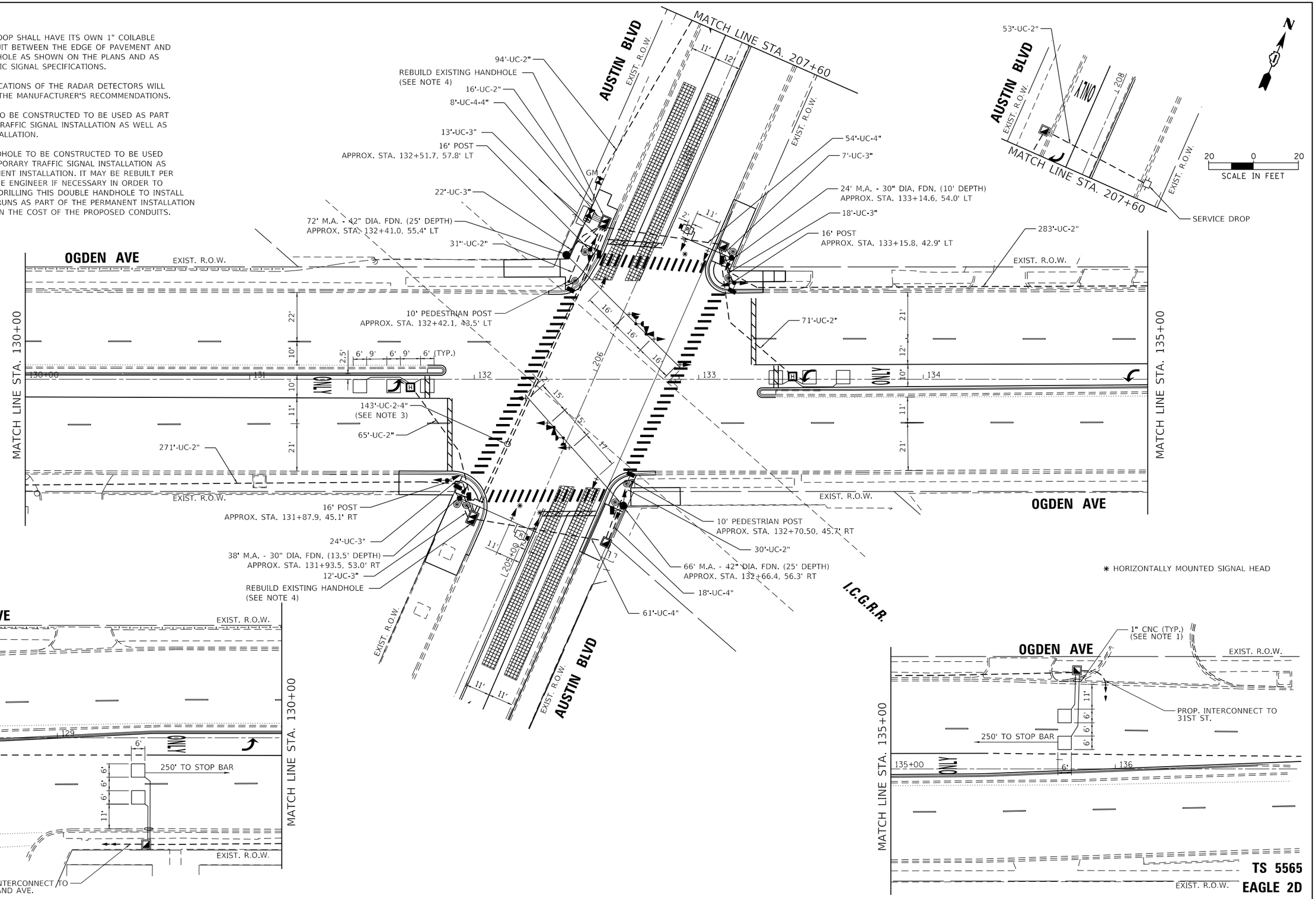
NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

2. THE MOUNTING LOCATIONS OF THE RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.

3. THESE CONDUITS TO BE CONSTRUCTED TO BE USED AS PART OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION AS WELL AS THE PERMANENT INSTALLATION.

4. THIS DOUBLE HANDHOLE TO BE CONSTRUCTED TO BE USED AS PART OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION AS WELL AS THE PERMANENT INSTALLATION. IT MAY BE REBUILT PER THE DIRECTION OF THE ENGINEER IF NECESSARY IN ORDER TO BRING IT TO GRADE. DRILLING THIS DOUBLE HANDHOLE TO INSTALL PROPOSED CONDUIT RUNS AS PART OF THE PERMANENT INSTALLATION SHALL BE INCLUDED IN THE COST OF THE PROPOSED CONDUITS.



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TranSmart/EJM 411 South Wells Street Suite 1000 Chicago, Illinois 60607	USER NAME = rjacox	DESIGNED - R. JACOX	REVISED - 3/25/2020
		DRAWN - D. BRUSICH	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - G. GEDEMER	REVISED -
	PLOT DATE = 4/24/2020	DATE - 3/16/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

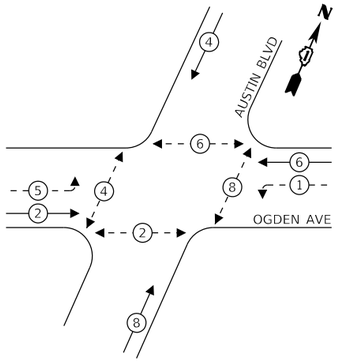
TRAFFIC SIGNAL MODERNIZATION PLAN
OGDEN AVE AND AUSTIN BLVD

SCALE: 1" = 20' | SHEET OF SHEETS | STA. | TO STA.

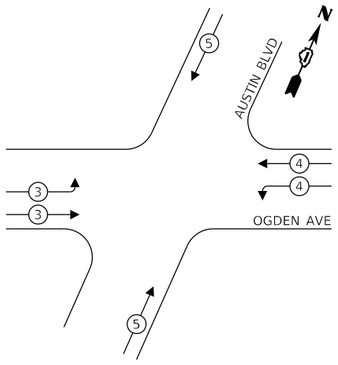
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	31
		CONTRACT NO. 62G02		
	ILLINOIS FED. AID PROJECT			

TS 5565
EAGLE 2D

PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

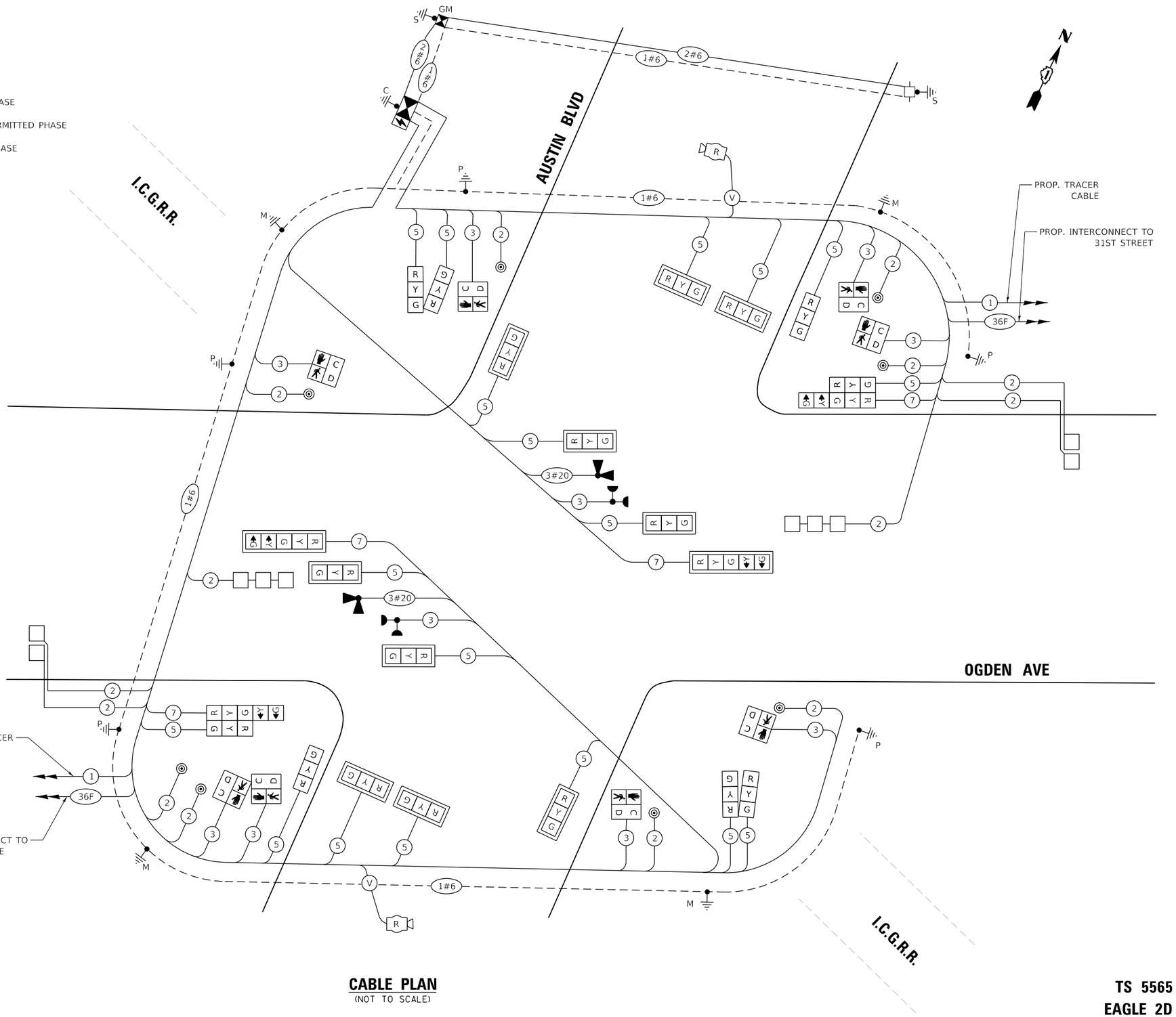
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	22	11	50	121.0
(YELLOW)	22	20	5	22.0
(GREEN)	22	12	45	118.8
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	554.8

ENERGY COSTS TO:

TOWN OF CICERO
4949 W. CERMAK RD
CICERO, IL 60804

ENERGY SUPPLY: CONTACT: MARSHA CAMPBELL
PHONE: (773) 270-7073
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 05840-38004



CABLE PLAN
(NOT TO SCALE)

TS 5565
EAGLE 2D

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = rjacox	DESIGNED - R. JACOX	REVISED - 3/25/2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - D. BRUSICH	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - G. GEDEMER	REVISED -	
PLOT DATE = 4/24/2020	DATE - 3/16/2020	REVISED -	

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
OGDEN AVE AND AUSTIN BLVD

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	32
		CONTRACT NO. 62G02		
		ILLINOIS	FED. AID PROJECT	

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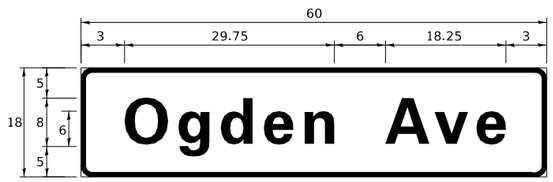
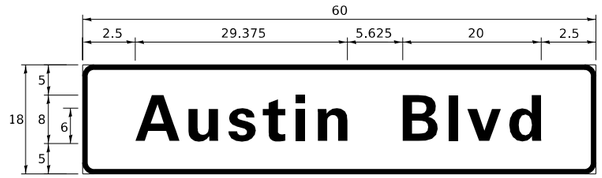
SIGN PANEL – TYPE 1

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY REQUIRED
D	7.5	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY REQUIRED
D	7.5	1	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNITS	TOTAL QTY.
	SIGN PANEL - TYPE 1	SQ FT	30
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	914
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	96
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	451
	HANDHOLE	EACH	5
	HEAVY-DUTY HANDHOLE	EACH	2
	DOUBLE HANDHOLE	EACH	2
	TRANCEIVER - FIBER OPTIC	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,545
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2,050
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,475
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	855
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,105
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	220
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,000
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 66 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 72 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	16
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	23.5
	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	50
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	10
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
	INDUCTIVE LOOP DETECTOR	EACH	6
	DETECTOR LOOP, TYPE I	FOOT	388
*	LIGHT DETECTOR	EACH	2
*	LIGHT DETECTOR AMPLIFIER	EACH	1
	PEDESTRIAN PUSH-BUTTON	EACH	8
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REBUILD EXISTING HANDHOLE	EACH	2
	REMOVE EXISTING HANDHOLE	EACH	9
	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	470
	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
	SERVICE INSTALLATION,GROUND MOUNTED, METERED	EACH	1
	RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	2
	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
	CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	8
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

* 100% COST TO THE TOWN OF CICERO

TS 5565
EAGLE 2D

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

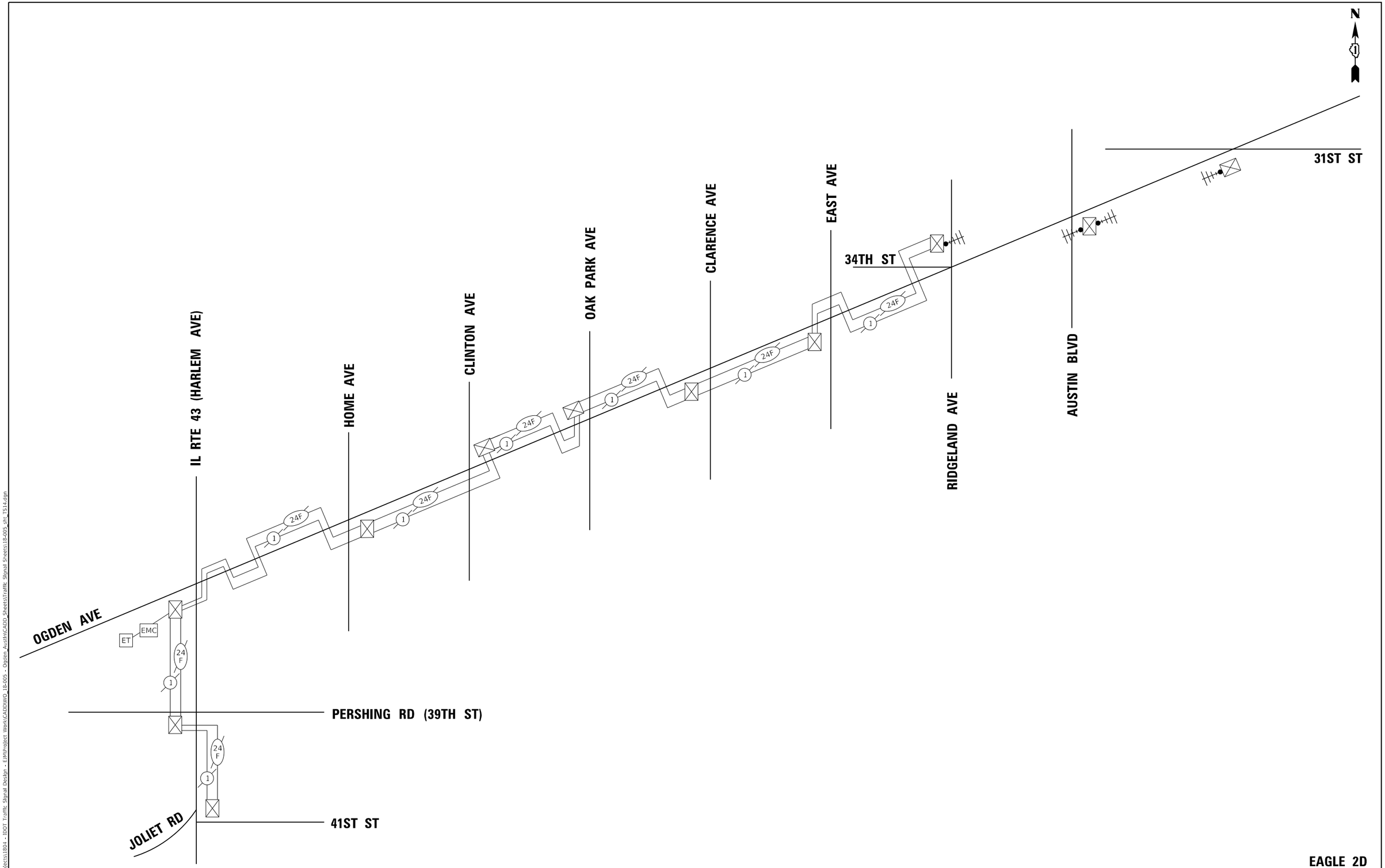
USER NAME = rjacox	DESIGNED - R. JACOX	REVISED -	3/25/2020
	DRAWN - D. BRUSICH	REVISED -	
PLOT SCALE = 39.9988 ' / in.	CHECKED - G. GEDEMER	REVISED -	
PLOT DATE = 4/24/2020	DATE - 3/16/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
OGDEN AVE AND AUSTIN BLVD

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	33
		CONTRACT NO. 62G02		
	ILLINOIS	FED. AID PROJECT		



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411 South Wells Street Suite 1000
Chicago, Illinois 60607

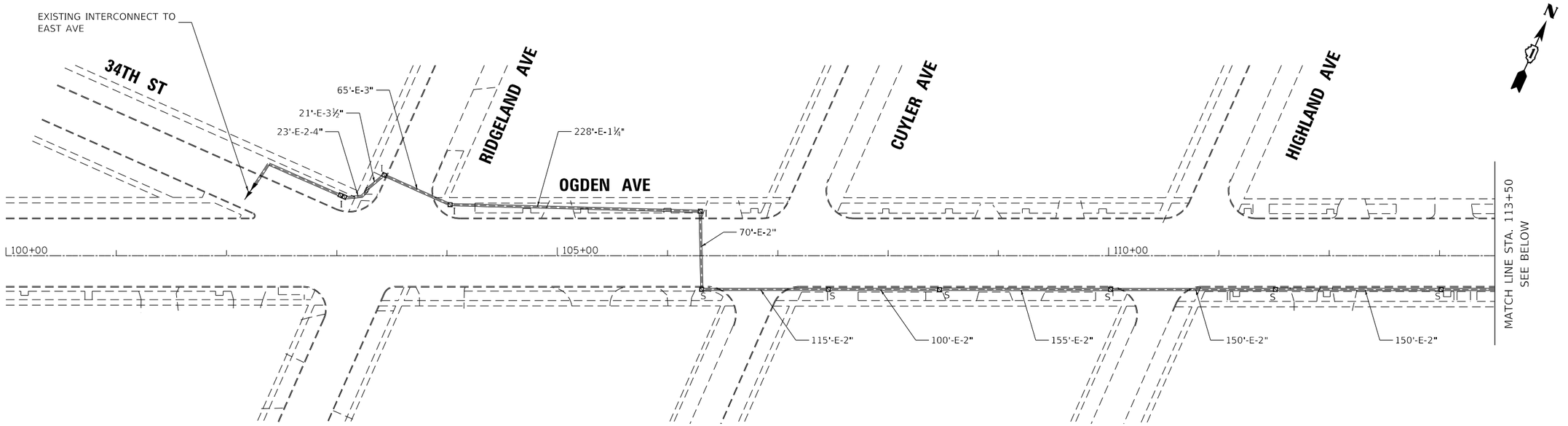
USER NAME = rjacox	DESIGNED - R. JACOX	REVISED - 3/25/2020	
	DRAWN - D. BRUSICH	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - G. GEDEMER	REVISED -	
PLOT DATE = 4/24/2020	DATE - 3/16/2020	REVISED -	

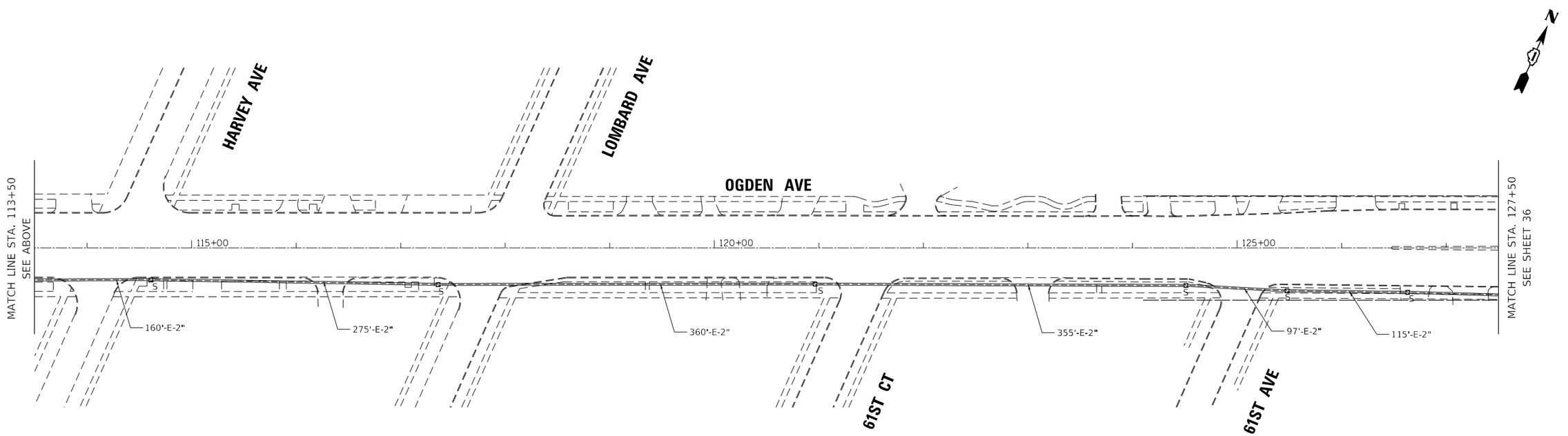
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT SCHEMATIC
OGDEN AVE –
IL RTE 43 (HARLEM AVE) TO 31ST ST

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	34
		CONTRACT NO. 62G02		
		ILLINOIS	FED. AID PROJECT	





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411 South Wells Street Suite 1000
Chicago, Illinois 60607

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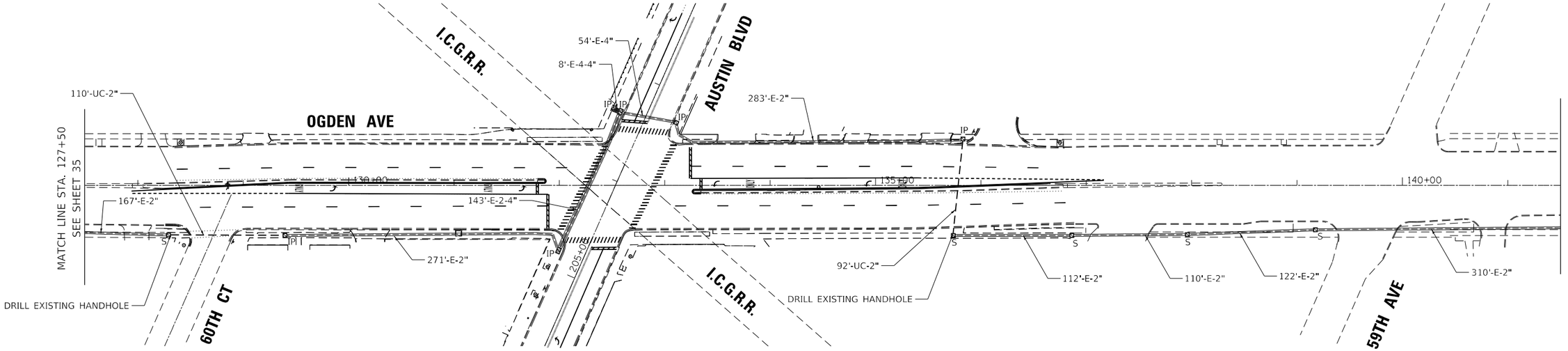
	DRAWN - D. BRUSICH	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - G. GEDEMER	REVISED -
PLOT DATE = 4/24/2020	DATE - 3/16/2020	REVISED -

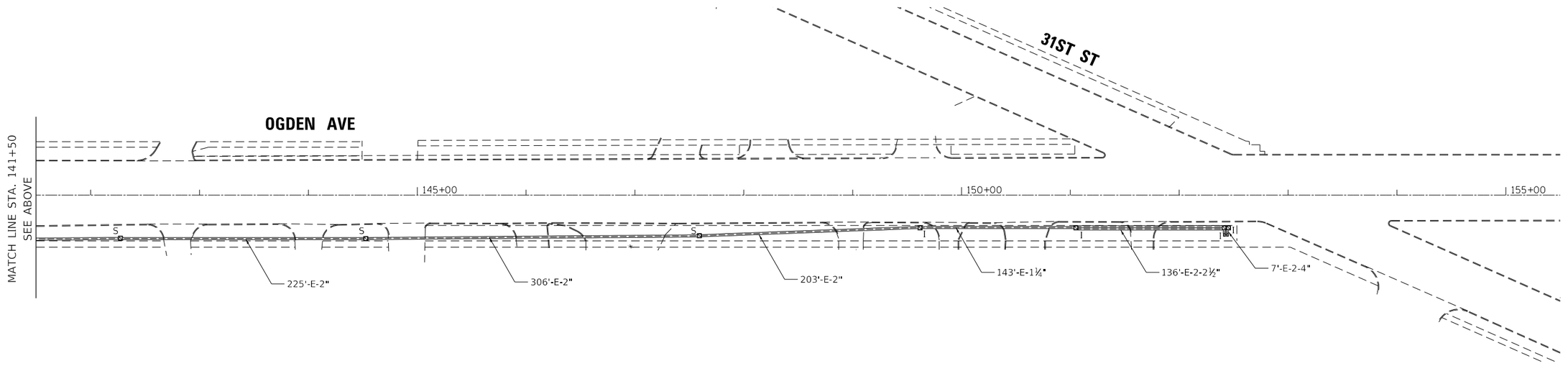
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN (SHEET 1 OF 2)
OGDEN AVE –
RIDGELAND AVE TO 31ST ST

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	35
		CONTRACT NO. 62G02		
	ILLINOIS	FED. AID PROJECT		





EAGLE 2D

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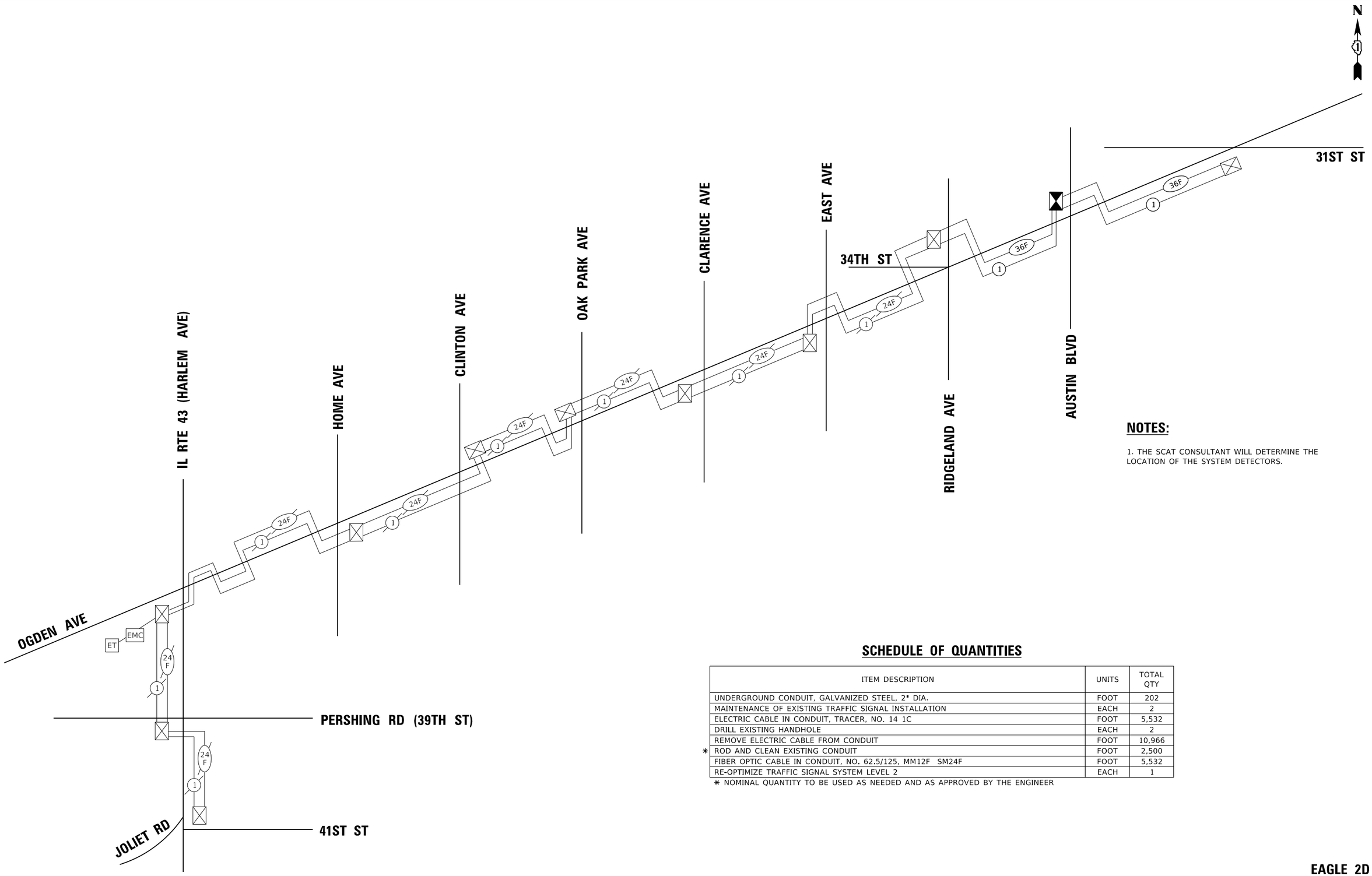
PLOT SCALE = 100.0000 ' / in.	CHECKED - G. GEDEMER	REVISED -
PLOT DATE = 4/24/2020	DATE - 3/16/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN (SHEET 2 OF 2)
OGDEN AVE –
RIDGELAND AVE TO 31ST ST

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	36
		CONTRACT NO. 62G02		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. THE SCAT CONSULTANT WILL DETERMINE THE LOCATION OF THE SYSTEM DETECTORS.

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNITS	TOTAL QTY
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	202
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	5,532
	DRILL EXISTING HANDHOLE	EACH	2
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	10,966
*	ROD AND CLEAN EXISTING CONDUIT	FOOT	2,500
	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	5,532
	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1

* NOMINAL QUANTITY TO BE USED AS NEEDED AND AS APPROVED BY THE ENGINEER

EAGLE 2D

MODEL: Default
FILE NAME: S:\Projects\1804 - IDOT Traffic Signal Design - EJM\Project Work\CAD\DWG_18-005 - Ogden_Austin\CADD_Sheets\Traffic Signal Sheets\18-005_sht_TS17.dgn

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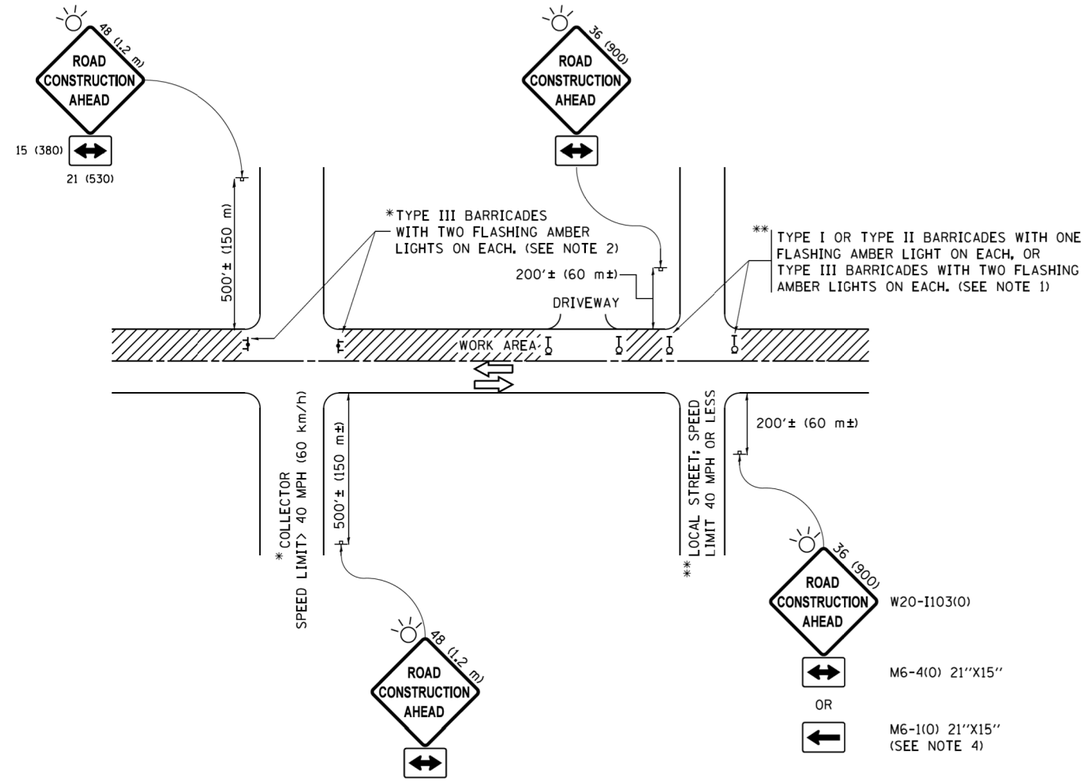
PLOT SCALE = 100.0000 ' / in.	CHECKED - G. GEDEMER	REVISED -	
PLOT DATE = 4/24/2020	DATE - 3/16/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES
OGDEN AVE –
IL RTE 43 (HARLEM AVE) TO 31ST ST

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	37
		CONTRACT NO. 62G02		
		ILLINOIS	FED. AID PROJECT	



NOTES:

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:
   a) ONE ''ROAD CONSTRUCTION AHEAD'' SIGN 36 x 36 (900x900) WITH A FLASHER 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.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) 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. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

MODEL: Default
FILE NAME: S:\Projects\1804 - IDOT Traffic Signal Design - EJM\Project Work\CADD\WO_18-008 - Ogden Austin Civil\CADD Sheets\18-008 Detail-TC-10.dgn

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PLOT DATE = 3/23/2020	DATE - 3/16/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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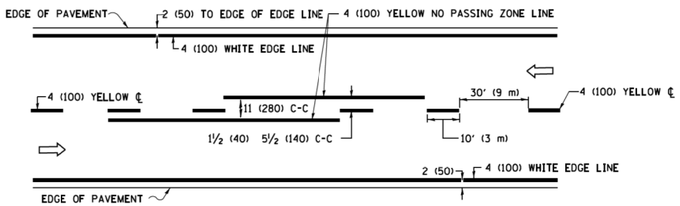
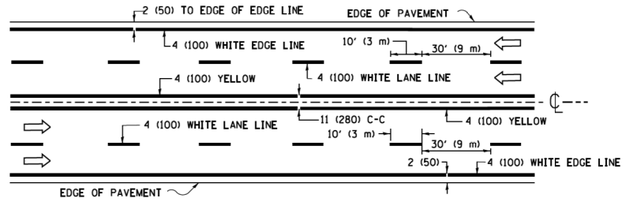
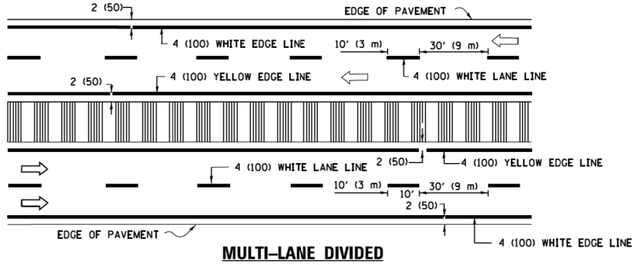
	TC-10	CONTRACT NO. 62G02		
	ILLINOIS FED. AID PROJECT			



2–LANE ROADWAY

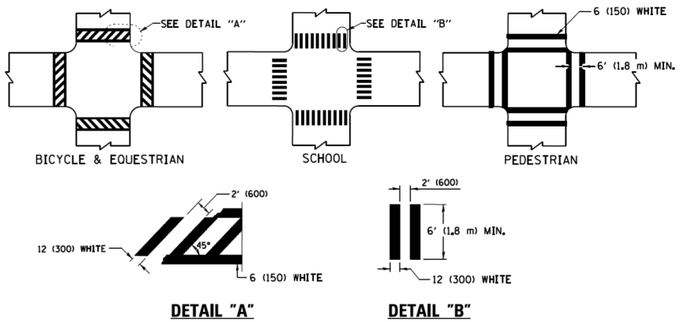


MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

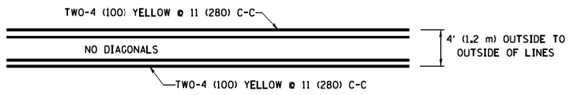
TYPICAL LANE AND EDGE LINE MARKING



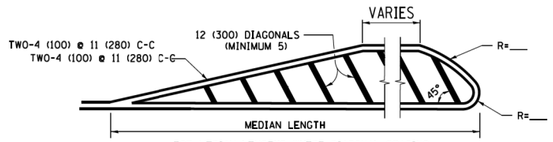
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

✳ MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



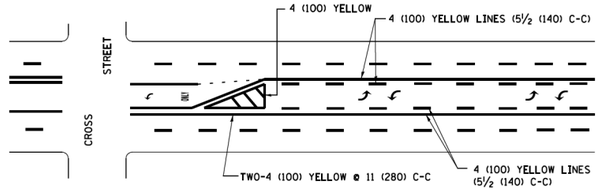
4' (1.2 m) WIDE MEDIANS ONLY



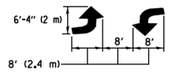
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

MEDIANS OVER 4' (1.2 m) WIDE

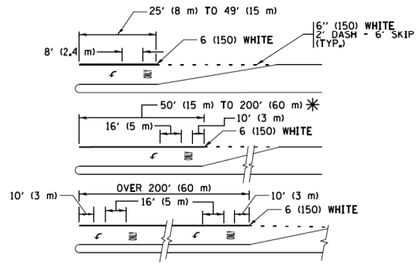


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

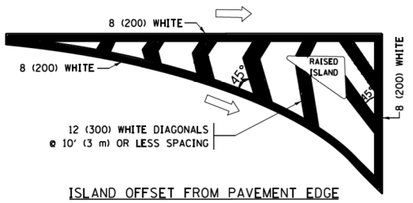


FULL SIZE LETTERS 8' (2,4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1,5 m²) ONLY AREA = 20.8 SQ. FT. (1,9 m²)

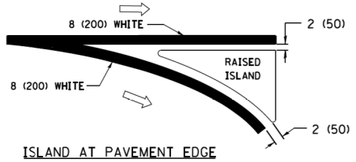
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

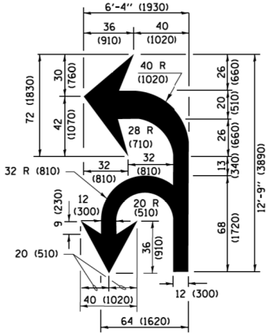


ISLAND OFFSET FROM PAVEMENT EDGE

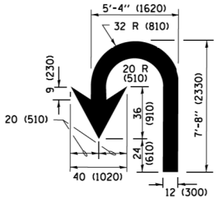


ISLAND AT PAVEMENT EDGE

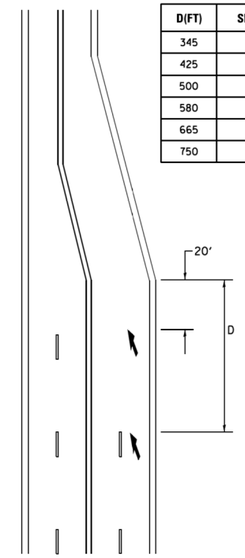
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



U–TURN



D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

LANE REDUCTION TRANSITION

✳ LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

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
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
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 8' (2,4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE 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 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) TO 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 SQ. FT. (0,33 m²) EACH "X"=54,0 SQ. FT. (5,0 m²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	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 (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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.

MODEL: Default
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	DRAWN - P. SCOTT	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - C. GUTOWSKI	REVISED -	
PLOT DATE = 3/23/2020	DATE - 3/16/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	39
	TC–13	CONTRACT NO. 62G02		
		ILLINOIS	FED. AID PROJECT	

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

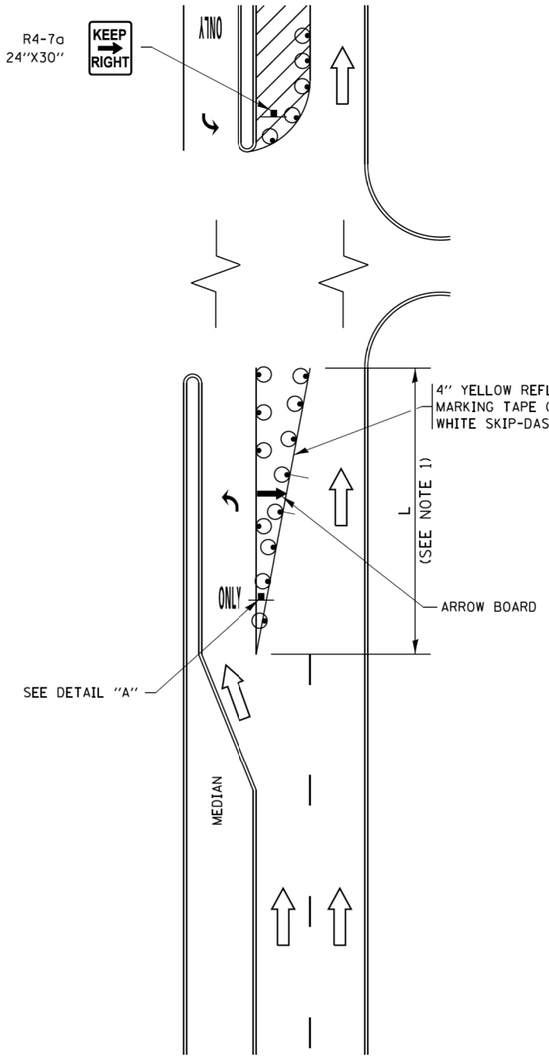


FIGURE 1

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.

   B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.

2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.

3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.

4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.

5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I10OR 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.

6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.

7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.

8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

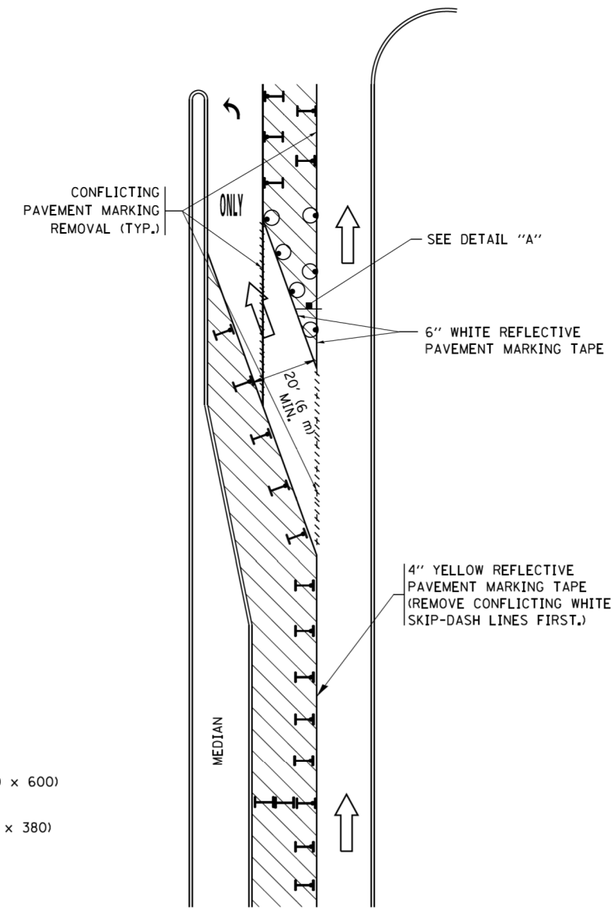
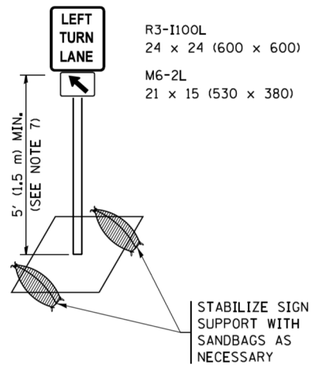


FIGURE 2



DETAIL A

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

MODEL: Default
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	DRAWN - P. SCOTT	REVISED -	
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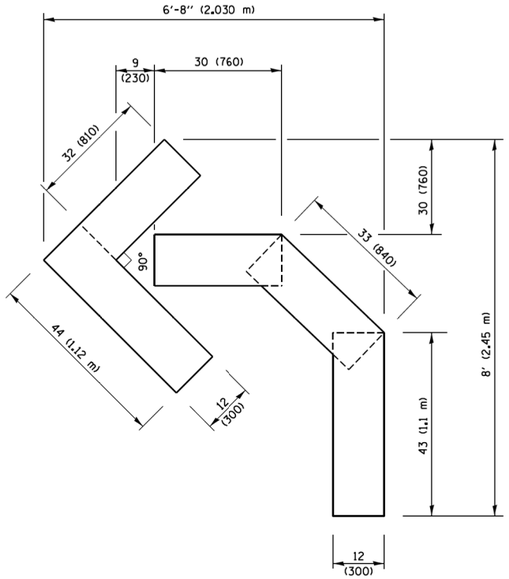
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

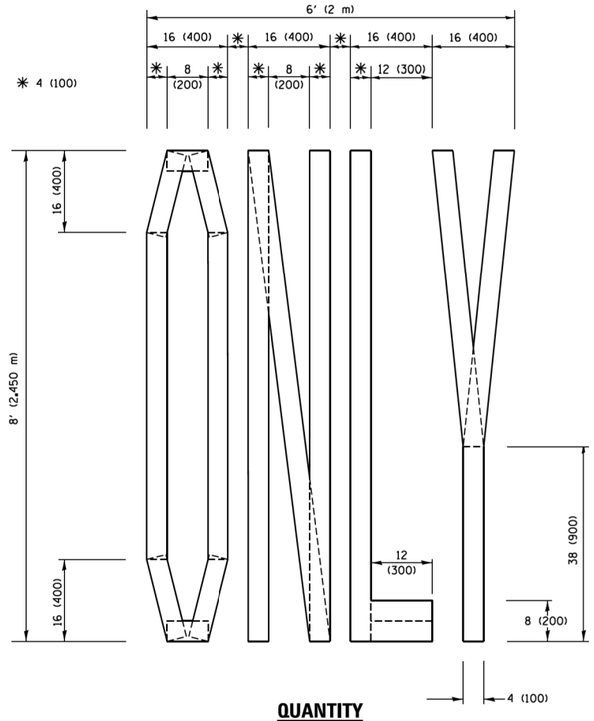
SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	40
	TC-14	CONTRACT NO. 62G02		
	ILLINOIS FED. AID PROJECT			



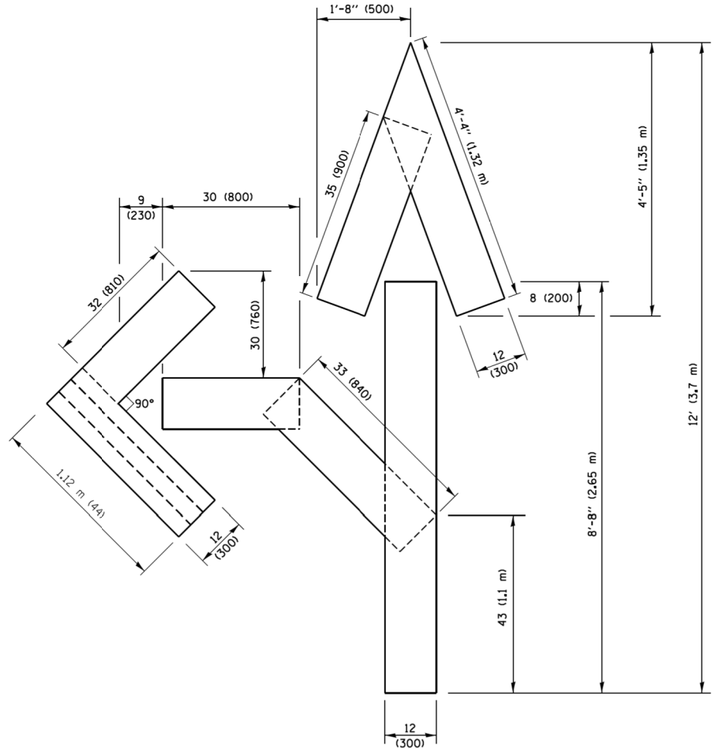
QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.41 sq. m)



QUANTITY

4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 sq. m)

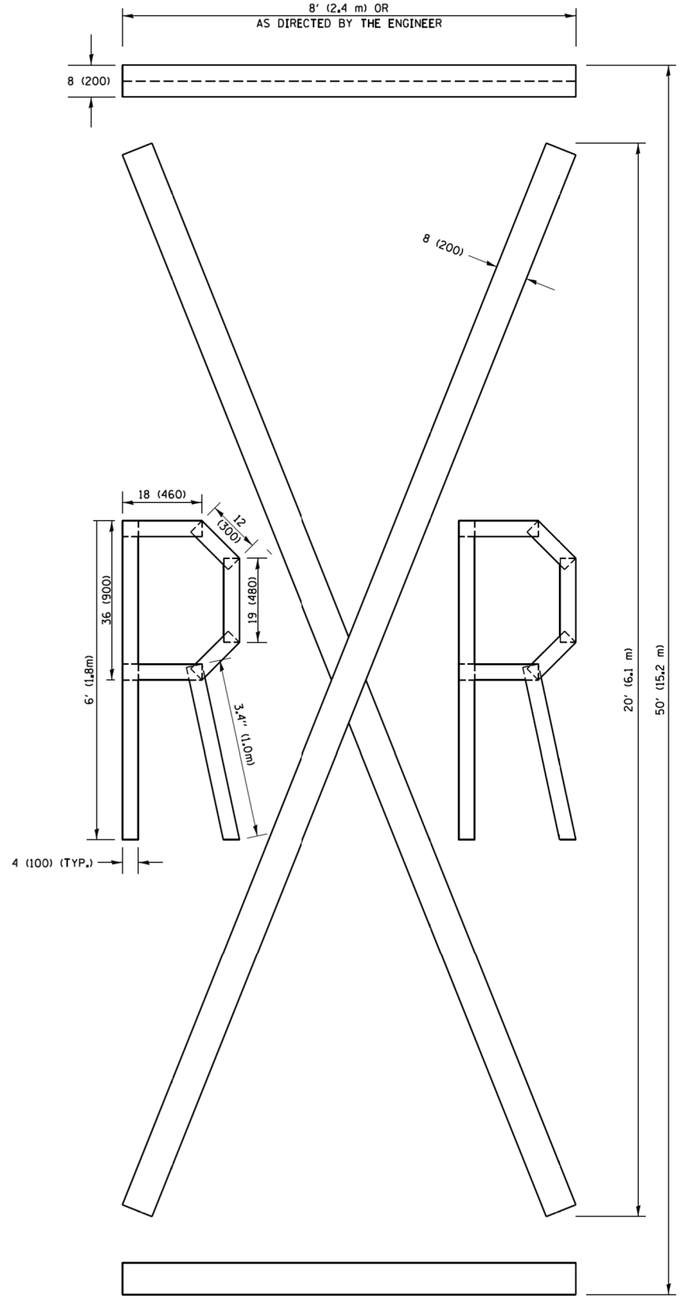


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)

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

MODEL: Default
FILE NAME: S:\Projects\1804 - IDOT Traffic Signal Design - EJM\Project Work\CADD\WO 18-008 - Ogden_Austin CWR\CADD Sheets\18-008 Detail-TC16.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

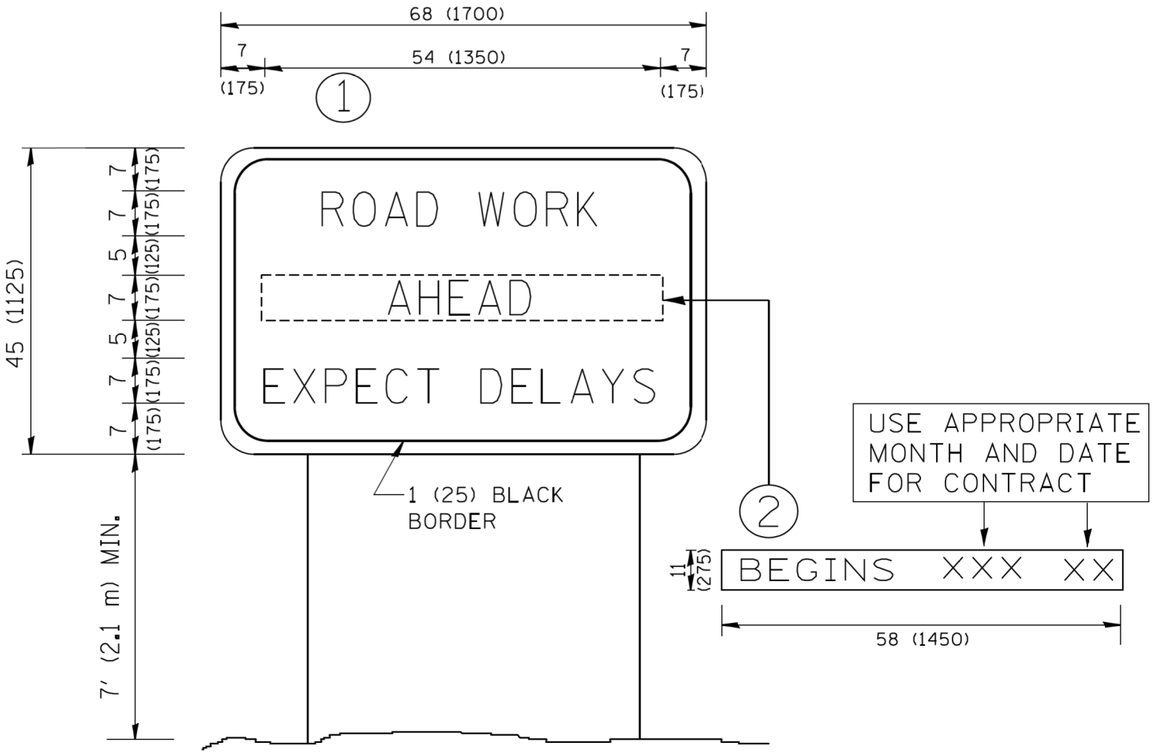
USER NAME = sadhikari	DESIGNED - N. SALEHIAN	REVISED -	
	DRAWN - P. SCOTT	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - C. GUTOWSKI	REVISED -	
PLOT DATE = 3/23/2020	DATE - 3/16/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHORT TERM PAVEMENT MARKING
LETTERS AND SYMBOLS

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	41
	TC-16	CONTRACT NO. 62G02		
		ILLINOIS	FED. AID PROJECT	



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE ''ROAD CONSTRUCTION AHEAD'' SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR ''TEMPORARY INFORMATION SIGNING'' FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 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.

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Chicago, Illinois 60607

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	DRAWN - P. SCOTT	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - C. GUTOWSKI	REVISED -	
PLOT DATE = 3/23/2020	DATE - 3/16/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	7-S-2(TS)	COOK	42	42
	TC-22	CONTRACT NO. 62G02		
		ILLINOIS FED. AID PROJECT		