STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

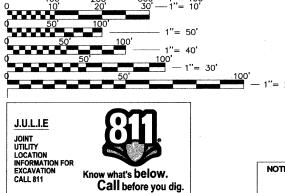
PLANS FOR PROPOSED FEDERAL

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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 BELOW SCALES



THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOBSITE SAFETY.

AID HIGHWAY FAP 330 U.S. RTE 12/45 (LEE STREET)

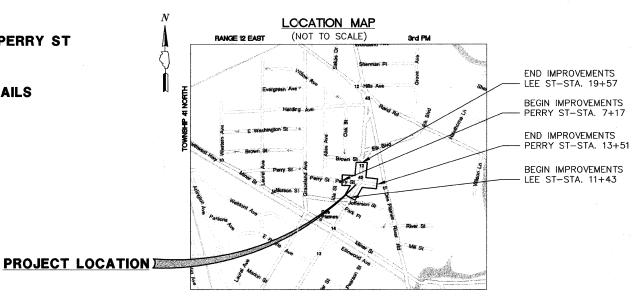
AT PERRY STREET

ROADWAY WIDENING AND TRAFFIC SIGNAL INSTALLATION

SECTION: 10-00213-00-CH

PROJECT NO. M-9003(821) JOB NO. C-91-559-11

CITY OF DES PLAINES. ILLINOIS **COOK COUNTY**



PROJECT INFORMATION

FUNCTIONAL CLASSIFICATIONS OTHER PRINCIPAL ARTERIAL - LEE STREET

POSTED SPEED LIMIT

30 M.P.H. - LEE STREET 25 M.P.H. - PERRY STREET

GROSS AND NET LENGTH OF PROJECT LEE STREET 814 FEET

PERRY STREET

0.15 MILES 0.12 MILES

STATION EQUATION

LEE STREET ¢ =10+00 PERRY STREET

ADT (2009)

22500 (VPD) - LEE STREET <5000 (VPD) - PERRY STREET

BENCHMARK:
SOURCE BENCHMARK 1: (CITY OF DES PLAINES #66)
MONUMENT SET INCONORETE ON THE NORTH SIDE
OF GOLF ROAD AT HOLY FAMILY HOSPITAL 34 EAST
OF FAST ENTRANCE TO DRIVING RANGE AND 16 OF EAST ENTRANCE TO DRIVING RANGE NORTH OF EDGE OF PAVEMENT OF GOLF DATUM: NAVD 88

SITE BENCHMARK 2: CUT CROSS IN SIDEWALK ±25' EAST OF CENTERLINE OF LEE STREET AND ±20' SOUTH OF CENTERLINE OF PERRY STREET. ELEVATION: 635.95

CONTROL POINTS:

DESC.	NORTHING	EASTING	ELEVATION
CP16-FXSW	1958329.58	1105432.83	638.46
CP17~SXSW	1958771.71	1105763.56	635.93
CP19-SXSW	1958795.69	1105454.50	639.77
CP49~XSW	1958535.05	1105554.52	638.05
CP1315~SMARKER	1959172.65	1105737.40	633.23

SECTION

10-00213-00-CH

COUNTY

LAKE 47 CONTRACT #: 63616

LOCATION OF SECTION INDICATED THUS:

DIVISION OF HIGHWAYS 9-14-11 CITY OF DES PLAINES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SEPTEMBER

PROFESSIONAL ENGINEER'S SIGNATURE & SEAL



PROFESSIONAL FLECTRICAL ENGINEER'S SIGNATURE & SEAL

auta I Den

DATE: 8/23/2011

EXPIRES: 11-30-11

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

ASSOCIATES. INC.

850 Forest Edge Drive Vernon Hills, IL. 60061 Phone: 847-478-9700 Fax: 847-478-9701

CONTRACT NO:63616

CONTRACTOR IS RESPONSIBLE FOR CONTACTING J.U.L.I.E. AT 1-800-892-0123 AND MUST ACQUIRE A DIG NUMBER A MINIMUM OF 72 HOURS PRIOR TO ANY WORK BEING DONE.

GENERAL NOTE

- A-1. THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS. THE EDITION, PROJECT SPECIFICATIONS, ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, THE CITY OF DES PLAINES, THE METROPOLITAN WATER RECLAMATION DISTRICT, ALL APPLICABLE REQUIREMENTS OF THE ORDINANCES OF AUTHORITIES HAVING JURISDICTION AND ALL ADDENDA THERETO SHALL GOVERN THIS WORK.
- A-2. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM WHAT IS SHOWN ON THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSION OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT IN SOM RIGHS AND EXPENSE. IN THE EVENT OF ANY DUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- A-3. WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.
- A-4. DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. SITE DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING OR ANY OTHER METHOD ACCEPTABLE TO THE ENGINEER.
- A-5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM HIS CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE.
- A-6. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY EQUIPMENT OR LABORERS TO EXISTING CONDITIONS. CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL COMPLETION OF THIS CONTRACT
- A-7. EXISTING UTILITIES: WHEN THE PLANS OR SPECIAL PROMSIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESONSIBILITY WHATSDEVER IN RESPECT TO THE SUFFICIENCY OF ACCURACY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. HE SHALL ALSO OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES, JULLIE, DETAILED INFORMATION RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THEM.
- A-8. THE CITY OF DES PLAINES SHOULD BE CONTACTED 48 HOURS PRIOR TO THE START OF ANY EXCAVATION, 847-391-5300
- A-9. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONSTRUCTION, THE STOLVED.
- A-10. THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM TO CONTINUOUSLY MONITOR FOR WORKERS SAFETY AND SOIL CONTAMINATION AT SEVERAL AREAS. SEE SPECIAL PROVISION AND SUPPLEMENTAL SPECIALCATIONS FOR DETAILS.
- A-11. THE ENVIRONMENTAL FIRM IS REQUIRED TO CONTINUOUSLY MONITOR FOR WORKER PROTECTION AND SOIL CONTAMINATION AT SEVERAL AREAS, SEE SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS FOR DETAILS.

UTILITY/IEPA NOTES

- B-1. SEWER AND WATER CONTRACTOR SHALL BE LICENSED AND BONDED WITH THE
- B-2. ALL SEWER AND WATERMAIN CONSTRUCTION SHALL CONFORM TO THE CITY OF DES, PLAINES THE IEPA REQUIREMENTS, THE MWRD SEWER PERMIT ORDINANCE, AND THE STANDARD SPECIFICATIONS FOR SEWER AND WATERMAIN CONSTRUCTION IN ILLINOIS, PUBLISHED BY THE ISPE.
- B-3. THE CONTRACTOR SHALL PROVIDE A FINAL LIST OF SEWER AND WATER SERVICE MEASUREMENTS TO THE CITY AND TO THE PROJECT ENGINEER AT THE CONCLUSION OF THE JOB.
- B-4. 'BAND-SEAL' OR SIMILAR FLEXIBLE TYPE COUPLINGS SHALL BE USED WHEN CONNECTING SEWER PIPES OF DISSIMILAR MATERIALS.
- B-5. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE ONE OF THE FOLLOWING METHODS SHALL BE USED:
 - (1) CIRCULAR, SAW-CUT OF SEWER MAIN WITH PROPER TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUB WYE SADDLE OR HUB TEE SADDLE, IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- (2) USING PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING. USE "BAND-SEAL" COUPLINGS OR SIMILAR COUPLINGS, AND SHEAR RINGS AND CLAMPS TO FASTEN THE INSERTED FITTING AND HOLD IT FIRMLY IN PLACE. MISSION COUPLINGS SHALL HAVE THE LENGTH OF BOOT APPROXIMATELY EQUAL TO THE PIPE DIAMETER. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR THE INSTALLATION.
- NO CUT-IN CONNECTION, MADE BY BREAKING OR CUTTING A HOLE IN THE MAIN AND INSERTING THE SPIGOT END OF AN ORDINARY SEWER PIPE SHALL BE PERMITTED.

 STORM SEWER STRUCTURES ARE TO BE PRECAST REINFORCED CONGRETE ECCENTRIC TYPE WITH A MINIMUM 48 INCH INISIDE DIAMETER BARREL SECTION.
 STEPS SHALL BE MADE OF STEEL REINFORCED PLASTIC, USING AN APPROVED PLASTIC MEETING ASTM D4101, TYPE II, GRADE 49108 OVER A #3 GRADE 60, ASTM A615, REINFORCING BAR. A MAXIMUM OF 8 INCHES OF ADJUSTING RINGS SHALL BE USED, WITH A MAXIMUM OF 2 RINGS. A FLAT SLAB TOP SHALL BE USED WHERE A COME SECTION CANNOT BE PLACED DUE TO DEPTH RESTRICTIONS. A MINIMUM OF 4 INCHES OF ADJUSTING RINGS SHALL BE USED ON ALL FLAT SLAB STRUCTURES
- B-7. ALL STRUCTURE SECTIONS AND ADJUSTING RINGS SHALL BE SECURELY SEALED TO EACH OTHER OR TO THE FRAME, CONE SECTION OF THE STRUCTURE USING RESILIENT, FLEXIBLE, NON-HARDENING, PEPERORMED. BITUMINOUS MASTIC (RAM-NEK, OR APPROVED EQUAL) THIS MASTIC SHALL BE APPLIED IN SUCH A MANNER THAT NO SURFACE WATER OR GROUND WATER INFLOW CAN ENTER THE STRUCTURE THROUGH GAPS BETWEEN BARREL SECTIONS OR CONE SECTIONS AND ADJUSTING RINGS.

- B-8. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING JULIE AS WELL AS ALL UTILITY COMPANIES AND THE CITY. THE FACILITIES SHALL BE LOCATED PRIOR TO ANY WORK WITHIN ANY EASEMENT, R.O.W., OR SUSPECTED UTILITY LOCATION.
- B-9. MACHINE CORE ALL CONNECTIONS TO EXISTING STRUCTURES. PIPE PENETRATIONS INTO EXISTING SANITARY MANHOLES SHALL BE PROPERLY SIZED AND CORED AND SEALED WITH PLEXIBLE WATER TIGHT CONNECTIONS.
- B-10. ALL EXISTING STRUCTURES SHALL BE ADJUSTED AS NECESSARY TO MATCH PROPOSED GRADES & LANDSCAPING.
- B-11. ALL SEWERS AND WATER MAINS SHALL BE INSTALLED ON CRUSHED STONE BEDDING (CA-11) WITH A MINIMUM THICKNESS OF 4 INCHES. THE BEDDING MATERIAL SHALL BE PLACED AND COMPACTED TO THE SPRING LINE OF THE REINFORCED CONCRETE PIPE. BLOCKING OF ANY KIND FOR GRADE IS NOT PERMITTED. ALL PVC PIPE AND DUCTILE IRON PIPE SHALL BE INSTALLED ON CRUSHED STONE BEDDING (CA-11) WITH A MINIMUM THICKNESS OF 4 INCHES. PROPERLY COMPACT AND EXTEND THE BEDDING TO 12 INCHES OVER THE TOP OF THE PIPE.
- B-12. SERVICE CONNECTIONS TO NEW SEWERS SHALL BE MADE WITH WYE BRANCHES WYE BRANCHES SHALL BE FACTORY MANUFACTURED PERMANENTLY AFFIXED TO THE MAIN SEWER. TES BRANCHES ARE NOT ALLOWED.
- B-13. ALL STORM SEWER PIPE SHALL BE RCP CL IV, CONFORMING TO ASTM C-76, WITH JOINTS CONFORMING TO ASTM C-443. S FORM SEWER PIPE REMOVED DURING DEMOLITION WILL NOT BE ALLOWED FOR USE FOR PROPOSED STORM SEWER PIPE.
- B-14. HORIZONTAL SEPARATION WATER MAINS AND SEWERS:
 - (1) WATER MAINS SHALL BE LOCATED AT LEAST TEN FEET HORIZONTALLY FROM AN EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER OR SEWER SERVICE CONNECTION.
 - (2) WATER MAINS MAY BE LOCATED CLOSER THAN TEN FEET TO A SEWER LINE WHEN
 - (A) LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN FEET: AND
 - (B) THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE
 - (C) THE WATER MAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME
 - TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF
 - TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF

 (3) WHEN THE SEMENOSSIBLE TO MEET (1) OR (2) ABOVE, BOTH THE WATER MAIN
 AND DRAIN OR SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL
 ONE CAST OR DUCTHE RON PIPE PRESTRESSED CONCRETE PIPE, OR PYC
 PIPE BUDNALENT TO WATER MAIN STANDARDS OF CONSTRUCTION. THE PRAIN
 OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED
 SURCHARGE HEAD BEFORE BACKFILLING.

B-15. VERTICAL SEPARATION - WATER MAINS AND SEWERS:

- (1) A WATER MAIN SHALL BE SEPARATED FROM A SEWER SO THE BOTTOM OF THE WATER MAIN IS A MINIMUM OF 18 INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHEREVER WATER MAINS CROSS STORM SEWERS, SATITARY SEWERS OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN THAT PORTION OF THE WATER WAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.
- (2) BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRESTRESSED CONCRETE PIPE, OR PVC PIPE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION WHEN:
 - (A) IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS
 - (B) THE WATER MAIN PASSES UNDER A SEWER OR DRAIN.
- (3) A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATER MAIN SHALL BE MAINTAINED WHERE A WATER MAIN CROSSES UNDER A SEWER. SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLING AND BREAKING THE WATER MAIN, AS SHOWN ON THE PLANS OR AS APPROVED BY THE ENGINEER. THIS MAY BE AS FOLLOWS:
 - (A) THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO WATER
 - PIPE, AND SHALL BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS PRIOR TO BACKFILLING.
 - (B) EITHER THE WATER MAIN OR THE SEWER LINE MAY BE ENCASED IN A
- WATERTICHT CARRIER PIPE WHICH EXTENDS TEN FEET ON BOTH SIDES OF THE CROSSING, MEASURED PERPENDICULIAR TO THE WATERAINI. THE CARRIER PIPE SHALL BE OF MATERIALS APPROVED FOR USE IN WATER
- (4) CONSTRUCTION SHALL STAND ON EACH SIDE OF THE CROSSING UNTIL THE PERPENDICULAR DISTANCE FROM THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN FEET.
- B-16. RECONNECT ALL EXISTING TILE LINES FOUND IN THE EXCAVATION TO THE NEW STORM LINES USING WYE OR TEE IN ACCORDANCE WITH UTILITY NOTES. NOTE THE LOCATION ON THE "AS-CONSTRUCTED" DRAWINGS. THIS IS CONSIDERED INDIDENTAL TO THE CONTRACT.
- B-17. CEMENT BRICKS AND NON-SHRINK MORTAR SHALL BE USED IN ALL STORM STRUCTURES.

PAVING AND GRADING NOTES

- C-1. ALL PAVEMENT DIMENSIONS ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE INDICATED.
- C-2. WHENEVER NEW CONCRETE ABUTS EXISTING CONCRETE, SET A 3/4" THICK PREMOLDED FIBER EXPANSION JOINT AND 3/4" IDOT STANDARD EXPANSION ANCHOR
 IES IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THIS INCLUDES
 CONCRETE POURED ADJACENT TO EXISTING SIDEWALKS, CURBS AND BUILDING,
 EXCEPT AT EXPANSION JOINTS.
- C-3. ALL CURB AND SIDEWALK SHALL BE REINFORCED WITH TWO #4 REBARS (THREE EQUALLY SPACED REBAR FOR SIDEWALK) WHENEVER THE CURB OR SIDEWALK CROSSES A UTILITY TRENCH. EXTEND THE REBAR TEN FEET BEYOND THE TRENCH ON BOTH SIDES.
- C-4. THE COST OF SAWCUTTING SHALL BE INCLUDED IN THE ITEM BEING REMOVED
- NOTE: FOR ALL UTILITIES, ADJUSTMENTS SHALL BE DONE BY UTILITY COMPANIES RESPONSIBLE FOR MAINTENANCE. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES IN ADJUSTME RELOCATING OR REMOVING THEIR UTILITIES SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION.

HIGHWAY STANDARDS LIST

111011111	C GITAINET LIGH
836001	LIGHT POLE FOUNDATIONS
000001-06	STANDARD SYMBOLS
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
353001-03	PCC BASE COURSE WITH HMA BINDER AND SURFACE COURSES
424001-05	CURB RAMPS FOR SIDEWALKS
442101-07	CLASS B PATCHES
442201-03	CLASS C & D PATCHES
602001-02	CATCH BASIN - TYPE A
	CATCH BASIN - TYPE C
602011-02 602301-03	INLET - TYPE A
	INLET - TYPE B
602306-03	MANHOLE - TYPE A
602401-03	
602411-02	MANHOLE - TYPE A, 7' DIAMETER
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604001-03	FRAME AND LIDS - TYPE 1
604086-02	FRAME AND GRATE- TYPE 23
606001-04	CONCRETE CURB, TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PCC ISLANDS AND MEDIANS
70110102	OFF ROAD OPERATIONS - MULTILANE - LESS THAN 15 FT TO EOP
701106-02	OFF ROAD OPERATIONS - MULTILANE - MORE THAN 15 FT AWAY
701301-04	LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
701501-06	URBAN LANE CLOSURE 2L, 2W, UNDIVIDED
701606-06	URBAN LANE CLOSURE MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-07	URBAN LANE CLOSURE MULTILANE INTERSECTION
701801-04	LANE CLOSURE, MULTILANE, 1W OR 2W, CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
72000101	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECT DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS SIGN PANELS — EXTRUDED ALUMINUM TYPE
720021-02	TELESCOPING STEEL SIGN SUPPORT
728001-01	
72900101	APPLICATIONS OF TYPE A AND B POSTS
780001-02	TYPICAL PAVEMENT MARKINGS TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
781001-03	ELECTRIC SERVICE INSTALLATION DETAILS
805001-01	HANDHOLES
814001-02	DOUBLE HANDHOLES
81400602	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
857001-01	
862001-01	UNINTERRUPTIBLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING PEDESTRIAN PUSH BUTTON
876001-01	
877011-04	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 16' THROUGH 56'
878001-08	CONCRETE FOUNDATION DETAILS
88000101	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
88000601	TRAFFIC SIGNAL MOUNTING DETAILS - POST AND BRACKET MOUNT
886001-01	DETECTOR LOOP INSTALLATIONS
88600601	TYPICAL LAYOUT FOR DETECTOR LOOPS

BENCHMARK: SOURCE BENCHMARK 1: (CITY OF DES PLAINES #66) MONUMENT SET IN CONCRETE ON THE NORTH SIDE OF GOLF ROAD AT HOLY FAMILY HOSPITAL 34' EAST OF EAST ENTRANCE TO DRIVING RANGE AND 16' NORTH OF EDGE OF PAVEMENT OF GOLF.

DATUM: NAVD 88

SITE BENCHMARK 2:
CUT CROSS IN SIDEWALK ±25' EAST OF CENTERLINE
LEE STREET AND ±20' SOUTH OF CENTERLINE OF
PERRY STREET.

ELEVATION: 635.95

CONTROL POINTS

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CP1315-SMARKER	1959172.65	1105737.40	633.23

CONTRACTOR NOTE:

THE CONTRACTOR SHALL VERIFY ALL PIPE SIZE, PIPE TYPE, MANHOLES, CATCH BASINS, INLET STRUCTURES TYPE AND SIZES PRIOR TO ORDERING ANY MATERIAL FOR THE PROJECT.

THIS VERIFICATION SHALL BE COMPLETED BY A FIELD INSPECTOR OF EACH STRUCTURE TO BE ADJUSTED, OR RECONSTRUCTED AND THE ASSOCIATED PIPING. THIS CONTRACTOR SHALL NOTIFY THE ENGINEER ON ANY DISCREPANCIES THAT WERE FOUND.

SCALE: NONE

THE CITY OF DES PLAINES WILL NOT BE RESPONSIBLE FOR THE COST OF ANY PIPING. MATERIAL USED TO ADJUST OR RECONSTRUCT STRUCTURES THAT CAN NOT BE USED AS A RESULT OF DIFFERING FIELD CONDITIONS FROM THE PLAINS.

STANDARD SYMBOLS

EXISTING	FEATURE	PROPOSED
BM/TBM	BENCHMARK CONCRETE R.O.W. MONUMENT R.O.W. LINE STORM SEWER STORM SEWER MANHOLE CATCH BASIN INLET CLEAN OUT SANITARY SEWER SANITARY FORCEMAIN	BM/TBM
© ⊠ ⊠ ⊗ ——————————————————————————————	SANITARY SEWER MANHOLE WATER VAULT VALVE BOX WATERMAIN FIRE HYDRANT GAS MANHOLE GAS VALVE GAS MAIN TELEDIANE LINES	@ B B B B B B B B B B B B B B B B B B B
D BT O BT	TELEPHONE LINES IBT BOX IBT MANHOLE ELECTRIC LINES ELECTRIC MANHOLE UTILITY POLE SIGN LIGHT STANDARD FENCE	
857 × 854.7	TREE SHRUB CONTOUR LINE SPOT GRADE HEADWALL FLARED END SECTION CULVERT SWALE PROPERTY PIN	857 × 857.4
RIM.	STORM SEWER STRUCTURE ELEVATION SANITARY SEWER STRUCTURE ELEVATION	RIM INV.
RIM TOP.	WATER MAIN STRUCTURE ELEVATION	RIM RIM TOP LO.F.

I.D.O.T. GENERAL NOTE

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OR BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).

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

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

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

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

ALL STORM SEWER CONNECTIONS WITH PIPES 27 INCHES DIAMETER AND SMALLER SHALL BE MADE WITH PRECAST "TEE" OR "WYE" PIPES. FOR PROPOSED STORM SEWER PIPES LARGER THAN 27 INCHES DIAMETER, OPENINGS OF THE SPECIFIED DIAMETER SHALL BE MADE IN THE PIPE AT THE TIME IT IS MANUFACTURED. PRECAST "TEE" AND "WYE" PIPE CONNECTIONS FOR PROPOSED STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST FOR THE STORM SEWERS.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 ½ INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND BITUMINOUS TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

TYPE II BARRICADES WHEN USED FOR APPROACH TAPERS, AS INDICATED ON THE STATE STANDARDS OR SHOWN ON THE PLANS SHALL BE SAFETYCADE DIRECTION INDICATOR BARRICADES MANUFACTURED BY WLI INDUSTRIES, INC. 880 N. ADDISON, P.O. BOX 7050, VILLA PARK, IL. 60181-7050 OR EQUIVALENT. THE CONTRACTORS BID PRICES FOR TRAFFIC CONTROL ITEMS SHALL INCLUDE THE COST OF THESE BARRICADES.

THE RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD ENGINEER, WALTER CZARNY, AT 847-715-8419 AT LEAST (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKING.

					/	
FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED -	-	CAD	REVISED	-
3850-805-DT1.dwg		DRAWN .	-	CAD	REVISED	-
	PLOT SCALE = 1TO1	CHECKED .	-	BLS	REVISED	-
	PLOT DATE = 8/23/2011	DATE -		8/23/2011	REVISED	-

CITY OF DES PLAINES
PROPOSED ROADWAY WIDENING AND
TRAFFIC SIGNAL INSTALLATION

							GHA #38	850.80
GENERAL	NOTES	& LEGEND		FAP. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				330	10-00213-00-CH	LAKE	47	2
						CONTRACT :	#: 63	616
SHEET NO. OF	SHEFTS	STA.	TO STA.		ILLINOIS SED AL	D DDO IFOT		

						OTDIO	LEUNDO	
			70% FED	70% FED	70% FED	0% FED		
	T		30% CITY ROADWAY	30% CITY SAFETY	30% CITY TRAINEES	100% CITY PAINTING		
SP	CODE NO.	\(\sime\) ITEM	UNIT	TOTAL QUANTITY	0004 URBAN	0021 URBAN	0042 URBAN	0021 URBAN
	20100110	TREE REMOVAL (6 TO 15 UNIT DIAMETER)	UNIT	30	30	ONDA	ONDAY	ORDAY
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	60	60			
	20101100	TREE TRUNK PROTECTION	EACH	20	20			
	20101200	TREE ROOT PRUNING	EACH	10	10			
L	20101400	NITROGEN FERTILIZER NUTRIENT	POUND	11	11		***************************************	
-	20101500	PHOSPHOROUS FERTILIZER NUTRIENT	POUND	11	11			
_	20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	11	11			
	20200100	EARTH EXCAVATION	CU YD	1,153	1,153		***************************************	
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	125	125			
	20800150	TRENCH BACKFILL	CUYD					
				220	220			
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQYD	100	100			
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	860	860			
_	25200110	SODDING, SALT TOLERANT	SQYD	860	860			
_	25200200	SUPPLEMENTAL WATERING	UNIT	15	15			
	28000400	PERIMETER EROSION BARRIER	FOOT	220	220	***************************************		
	28000510	INLET FILTERS	EACH	14	14			
	35101600	AGGREGATE BASE COURSE, TYPE B, 4"	SQ YD	1,105	1,105			
	35101800	AGGREGATE BASE COURSE, TYPE B, 6"	SQYD	1,625	1,625			
-	35400520	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING, 12"	SQYD	1,050	1,050			
	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	120	120			
	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	735	735			
	40600300	AGGREGATE (PRIME COAT)	TON					
				14	14			
	40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	208	208			
	40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	275	275			
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQYD	360	360			
	40601005	HOT-MIX APHALT REPLACEMENT OVER PATCHES	TON	21	20	1		
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50	TON	70	70			
	40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70	TON	406	406			
	40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	8	8			
	42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQYD	425	425			
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQFT	5,810	5,810			
	42400800	DETECTABLE WARNINGS	SQFT	170	170			
-	44000100	PAVEMENT REMOVAL	SQYD	240	240			
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQYD	600	600			
_	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,975	1,975			
	44000600	SIDEWALK REMOVAL	SQFT	4,860	4,860			
	44003100	MEDIAN REMOVAL	SQFT	25	25			
	44201785	CLASS D PATCHES, TYPE I, 12"	SQYD	200	200			
-	44201789	CLASS D PATCHES, TYPE II, 12"	SQ YD	200	200			
F	44201794	CLASS D PATCHES, TYPE III, 12*	SQ YD	175	175			
	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	585	585			
	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	20	20			
	55100300	STORM SEWER REMOVAL 8"	FOOT	20	20			
	55100400	STORM SEWER REMOVAL 10"	FOOT	40	40			
<u> </u>	55100500	STORM SEWER REMOVAL 12"	FOOT	50	50			<u> </u>
				I	T	T		1

EACH EACH

EACH EACH

EACH

EACH

CHIRARANDV	AF /	NUMBER
SUMMART	UFL	QUANTITIES

				70% FED	70% FED	FUNDS 70% FED	0% FED	
					30% CITY	30% CITY	30% CITY	100% CITY
s	CODE NO.	ITEM	UNIT	TOTAL	ROADWAY 0004	SAFETY 0021	TRAINEES 0042	PAINTING 0021
L	60219540	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	QUANTITY 1	URBAN 1	URBAN	URBAN	URBAN
-	60224439	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 23 FRAME AND GRATE	EACH	1	1			
F	60255500	MANHOLES TO BE ADJUSTED	EACH	15	15			
F	60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	3	3			
	60257900	MANHOLES TO BE RECONSTRUCTED	EACH	2	2			
L	60265700	VALVE VAULTS TO BE ADJUSTED	EACH	8	8			
\vdash	60266100	VALVE VAULTS TO BE RECONSTRUCTED	EACH	1	1			
F	60266600	VALVE BOXES TO BE ADJUSTED	EACH	1	1			
E	60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	2	2			
E								
E	60500040	REMOVING MANHOLES	EACH	1	1			
F	60500050	REMOVING CATCH BASINS	EACH	6	6			
E	60500060	REMOVING INLETS	EACH	3	3	~		
E	60500105	FILLING MANHOLES	EACH	1	1	***************************************		
L	60500205	FILLING CATCH BASINS	EACH	1	1			
F	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1,360	1,360			
F	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	650	650			
L								
F	60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQFT	75	75			
F	63500310	REMOVE AND REINSTALL DELINEATORS	EACH	9	9			
F	66900200	NON-SPECIAL WASTE DISPOSAL	CUYD	715	715			
	66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1			
E	66900530	SOIL DISPOSAL ANALYSIS	EACH	8	8		***************************************	
-	67100100	MOBILIZATION	L SUM	1	1			
*	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1			
	1							
*_	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1			
*	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1			
*_	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1			
_	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1		1		
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	3,150	3,150			
E	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQFT	400	400		***************************************	
F	72000100	SIGN PANEL - TYPE 1	SQFT	13.50		13.50	***************************************	
F	72000200	SIGN PANEL - TYPE 2	SQFT	30.00		30.00	~~~~	
						30.00		
E	72400710	RELOCATE SIGN PANEL, TYPE 1	SQFT	155	155			
F	72900100	METAL POST, TYPE A	FOOT	95	95			
F	72900200	METAL POST, TYPE B	FOOT	25	25		*******************************	
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQFT	354	354			
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4*	FOOT	3,705	3,705			
* -	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,120	1,120			
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	715	715			
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	1	170				
			FOOT		170			
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	80	80			
*	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	80	80		***************************************	
*	80400100	ELECTRIC SERVICE INSTALLATION	EACH	1		1		
*	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1		1		
*	80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1		1		
*	81000600	CONDUIT IN TRENCH, 2" DIA, GALVANIZED STEEL	FOOT	157		157		
*	81000700	CONDUIT IN TRENCH, 2 1/2" DIA, GALVANIZED STEEL	FOOT	60				
						60		
*	81000800	CONDUIT IN TRENCH, 3" DIA, GALVANIZED STEEL	FOOT	79		79		
*-	81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	30		30		
*	81018500	CONDUIT PUSHED, 2" DIA, GALVANIZED STEEL	FOOT	1,063		1,063		
*	81018900	CONDUIT PUSHED, 4* DIA, GALVANIZED STEEL	FOOT	351		351		
*	81400100	HANDHOLE	EACH	4		4		
		HEAVY-DUTY HANDHOLE	EACH					
*	81400200			4		4		

60208240 CATCH BASIN, TYPE C, TYPE 24 FRAME AND GRATE

**SPECIALTY ITEMS

* 56500600 DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED

60208230 CATCH BASIN, TYPE C, TYPE 23 FRAME AND GRATE

60200205 CATCH BASIN, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID

FILE NAME = USER NAME = ZACH WALLSTEN DESIGNED - CAD REVISED - SASO-805-DTI.dwg

| DRAWN | CAD | REVISED | CAD | REVISED | CAD | REVISED | CAD | CAD | REVISED | CAD | C

CITY OF DES PLAINES
PROPOSED ROADWAY WIDENING AND
TRAFFIC SIGNAL INSTALLATION

STP/STU FUNDS

SU	ММ	ARY	OF	QUA	NTIT	IES

					70% FFD	STP/STU FUNDS 70% FED 70% FED 70% FED				
Г			1		30% CITY ROADWAY	30% CiTY SAFETY	30% CITY TRANSES	0% FEI 100% CI PAINTIN		
s	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 URBAN	0021 URBAN	0042 URBAN	0021 URBA		
*	81400300	DOUBLE HANDHOLE	EACH	2		2		************		
*	81702460	ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE) 3 1/C NO. 3/0	FOOT	155		155				
*	81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	287		287				
*	* 84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	10		10				
*	84200804	REMOVAL OF POLE FOUNDATION	EACH	10		10				
*	* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1		1				
*	* 85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	4				4		
*	* 85100600	PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT	EACH	4				4		
*	* 85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1		1				
*	86200120	UNINTERRUPTIBLE POWER SUPPY	EACH	1		1				
*	86400100	TRANSCEIVER-FIBER OPTIC	EACH	1		1				
*	87100020	FIBER OPTIC CABLE IN CONDUIT, NO 62.5/125, MM12F SM12F	FOOT			····				
				350		350				
*	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO.141C	FOOT	350		350				
*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,161		1,161				
*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,486		1,486				
* -	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,126		1,126				
*[-	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,395		1,395	***************************************			
*-	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,595		1,595				
* -	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	153		153				
*[87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 61C	FOOT	684		684				
*	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4		4				
*	87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1		1				
*	87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1		1				
$*$ \vdash	87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1		1				
*	87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1		1				
$_*$	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16	A	16				
*	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4				
*	87800200	CONCRETE FOUNDATION, TYPE D	FOOT	4		4				
*		CONCRETE FOUNDATION, TYPE E-36 INCH DIAMETER	FOOT	44		44				
*	87900200	DRILL EXISTING HANDHOLE	EACH	1						
	88030020					1				
* -		SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6		6				
*	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4		4				
* -	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4		4				
*		PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8		8				
*	88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINIUM	EACH	10		10				
*	88500100	INDUCTIVE LOOP DETECTOR	EACH	8		8				
* -	88600100	DETECTOR LOOP, TYPE I	FOOT	763		763				
*	88700200	LIGHT DETECTOR	EACH	2		2				
*	88700300	LIGHT DETECTOR AMPLIFIER	EACH	1		1				
*	88800100	PEDESTRIAN PUSH-BUTTON	EACH	8		8				
*	89502200	MODIFY EXISTING CONTROLLER	EACH	1		1				
*	* X0301834	STORM SEWER TO BE FILLED	FOOT	40	40		-			
*	* X0323523	REMOVE TEMPORARY LIGHTING	L SUM	1		1				
*	* X0502600	TEMPORARY LIGHTING	L SUM	1		1				
*		HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	6,350	6,350					
*		LIGHTING CONTROLLER, SPECIAL	EACH	1	3,000	1				
*		LIGHT POLE FOUNDATION, 24" DIAMETER, SPECIAL	FOOT	120						
			T			120				
*	X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	262		262				
* _ :		BRICK PAVER REMOVAL AND REPLACEMENT	SQFT	25	25					
* 2		LIGHTING UNIT A, COMPLETE	EACH	10		10				
* .		LIGHTING UNIT B, COMPLETE	EACH	2		2				
	★ XX007584	CONDUIT, BORED AND PULLED, GALVANIZED STEEL, 2", SPECIAL	FOOT	1,475		1,475				

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							J FUNDS	
					70% FED	70% FED	70% FED	0% FED
	·		and the same of th		30% CITY	30% CITY	30% CITY	100% CITY
SP	CODE NO.		i	TOTAL	ROADWAY	SAFETY	TRAINEES	PAINTING
51	CODE NO.	ITEM	UNIT	QUANTITY	0004 URBAN	0021 URBAN	0042 URBAN	0021 URBAN
*	Z0001110	IGAS VALVE TO BE ADJUSTED	EACH	3	3	CINDAN	UNDAN	UNDAN
	T				1			
*	Z0004530	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 8"	SQ YD	60	60			
*	Z0018911	DRILL AND GROUT #6 TIE BARS	EACH	900	900	******		
*	Z0018913	DRILL AND GROUT #8 TIE BARS	EACH	925	925			
-	20010313	DIRECTIVE GROOT #6 TIE DANS	EACH	925	925			
*	Z0030850	TEMPORARY INFORMATION SIGNING	SQFT	103	103			
*	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1		1		
*	Z0042002	POROUS GRANULAR EMBANKMENT, SUBGRADE	CUYD	125	125			
*	Z0042300	PORTLAND CEMENT CONCRETE SIDEWALK CURB	FOOT	245	245			
					1			
*	Z0050600	REMOVE AND RESET ORNAMENTAL FENCE	FOOT	100	100			
*	Z0062450	SAWING PAVEMENT (FULL DEPTH)	FOOT	2,100	2,100			
*	Z0076600	TRAINEES	HOUR	500			500	
*	XX008592	ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE) 4/C NO. 8 & 1/C NO. 8 GROUND	FOOT	565		565		
*	XX008593	ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE) 6/C NO. 8 & 1/C NO. 8 GROUND	FOOT	835		835		
	<u> </u>							

^{**}SPECIALTY ITEMS

				ARTHWORKSCHED EARTH	T		T
			EARTH	EXCAVATION	PEMOVALAND DISPOSALOF	EMBANKMENT	EARTHWORK BALANCEWATE
	STATION		EXCAVATION	VOLUMEUSED	UNSUITABLE	(10%)	(+) OR
			Dia William	(15% SHRINKAGE)	MATERIAL (10%)	(10/9	SHOPTAGE(-)
LINE	E"LÆSTR	⊞r'	(CUYD)	(OUYD)	(QUYD)	(QUYD)	(CUYD)
11+00	TO	11+50	0	0	0	0	0
11+50	ТО	12+00	26.5	23	2.3	2.3	18
12+00	TO	12+50	60.8	51.7	5.2	5.2	41.3
12+50	TO	13+00	73.6	62.6	6.3	6.3	50.0
13+00	ТО	13+50	79.6	67.7	6.8	6.8	54.1
13+50	TO	14+00	70.8	60.2	6.0	6.0	48.1
14+00	TO	14+50	77.0	65.5	6.5	6.5	52.4
14+50	TO	15+00	80.0	68.0	6.8	6.8	54.4
15+00	ТО	15+50	45.1	38.3	3.8	3.8	30.7
15+50	ТО	16+00	62.5	53.1	5.3	5.3	42.5
16+00	ТО	16+30	29.6	25.2	2.5	2.5	20.1
16+30	TO	16+50	24.1	20.5	2.0	2.0	16.4
16+50	TO	17+00	45.4	38.6	3.9	3.9	30.9
17+00	TO	17+17	20.8	17.7	1.8	1.8	14.1
17+17	TO	17+50	32.7	27.8	2.8	2.8	22.2
17+50	TO	18+00	50.7	43.1	4.3	4.3	34.5
18+00	то	18+40	39.7	33.7	3.4	3.4	27
18+40	TO	18+50	9.2	7.8	0.8	0.8	6
18+50	TO	19+00	13.0	11,1	1.105	1.105	9
19+00	то	19+50	0	0	0	0	0
LEE:	STREET TO	TALS	841.1	714.9	71.5	71.5	571.9
	'PEHRYST	PEET"	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)
7+17	TO	7+50	0	0.0	0	0	0
7+50	то	8+00	11.2	9.5	1.0	1.0	8
8+00	TO	8+34	13.4	11.4	1.1	1.1	9.1
8+34	TO	8+50	13.1	11.1	1.1	1.1	8.9
8+50	TO	8+70	10.6	9.0	0.9	0.9	7.2
8+70	то	9+00	26.5	22.5	2.3	2.3	18.0
9+00	то	9+50	48.5	41.2	4.1	4.1	33.0
9+50	TO	10+00	86.5	73.5	7.4	7.4	58.8
10+00	TO	10+50	0	0	0	0	0
10+50	TO TO	11+00	81.1	68.9	6.9	6.9	55.1
11+00		11+24	8.8	7.5	0.7	0.7	6.0
11+24	TO YSTREET T	11+50	0 7	0	0	0	0
MHK	I SIMELI I	UIALS	299.7	254.7	25.5	25.5	203.8
ARTH CV	CAVATIO	N(GTAD)	1141				
2 0 III ILX	WINIO	* (CO 1D)	1171				

		<u> </u>							GHA #38	850.80
FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - CAD	REVISED -	CITY OF DES PLAINES	CHMMADY/COMEDINE OF CHANTITIES	FAP.	SECTION	COUNTY		SHEET
3850-805-DT1.dwg		DRAWN - CAD	REFERENCE - CITY OF DES PLAINES SUMMARY/SCHEDULE OF QUANTITIES REFERENCE AND 330				10 00017 00 011		SHEETS	NO.
	PLOT SCALE = 1TO1	CHECKED - BLS	REVISED -			10-00213-00-CH	LAKE	#: 636	4	
	PLOT DATE = 8/23/2011	DATE - 8/23/2011	REVISED ~	TRAFFIC SIGNAL INSTALLATION	SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.	-	ILLINOIS FED. AII	CONTRACT	#: 636	010

LEE STREET **EXISTING SECTION** LEE STREET STA. 11+43 TO STA. 11+85 N.T.S 20' & VARIES<u>1.0</u>₹. PROPOSED SECTION LEE STREET STA. 11+43 TO STA. 11+85 N.T.S & VARIES EXISTING SECTION LEE STREET STA. 11+85 TO STA. 15+57 N.T.S PROPOSED SECTION LEE STREET STA. 11+85 TO STA. 15+57 N.T.S EXISTING SECTION LEE STREET STA. 15+57 TO STA. 19+57 N.T.S PROPOSED SECTION LEE STREET STA. 15+57 TO STA. 19+57 N.T.S

REVISED -

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REVISED -

DRAWN - CAD

CHECKED - BLS

- 8/23/2011

FILE NAME =

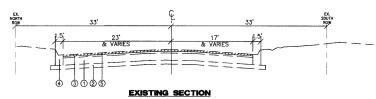
3850-805-PR1.dwg

USER NAME = ZACH WALLSTEN

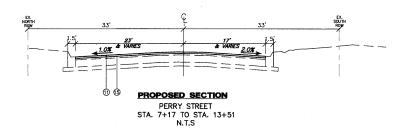
PLOT SCALE = 1T01

PLOT DATE = 8/23/2011

PERRY STREET



PERRY STREET
STA. 7+17 TO STA. 13+51
N.T.S



EGEND:

- 1 EXISTING P.C.C. BASE COURSE
- ② EXISTING AGGREGATE SUB-BASE
- 3 EXISTING BITUMINOUS PAVEMENT (VARIES)
- 4 EXISTING B-6.12 CURB AND GUTTER WITH MONOLITHIC P.C.C. BASE COURSE.
- 5 PROPOSED HMA SURFACE REMOVAL (2"-PERRY ST), (VARIES-LEE ST)
- 6 PROPOSED 6" AGGREGATE BASE COURSE, TYPE B
- PROPOSED 12" B C C BASE COURSE WIDENING
- 8 PROPOSED DRILL AND GROUT #6 TIE BARS @ 24" C-C
- 8A PROPOSED DRILL AND GROUT #8 TIE BARS @ 24" C-C
- 9 PROPOSED B-6.12 CURB AND GUTTER
- 10 PROPOSED B-6.24 CURB AND GUTTER
- 1) PROPOSED 1 1/2" HOT-MIX ASPHALT SURFACE COURSE, (MIX D, N70 LEE ST), (MIX C, N50 PERRY ST)
- 2 PROPOSED P.C.C. SIDEWALK, 5"
- (3) PROPOSED 4" TOPSOIL AND SALT TOLERANT SOD
- (14) PROPOSED 4" AGGREGATE BASE COURSE, TYPE B
- (5) PROPOSED LEVELING BINDER (MACHINE METHOD) (3/4"-1")
- 16 PROPOSED 4" P.C.C. MEDIAN SURFACE
- PROPOSED 8" P.C.C. DRIVEWAY

		·	
MIXTURE TYPE	AIR VOIDS © Ndes	DEPTH	LOCATION
HOT-MIX ASPHALT RESURFACING			
HOT-MIX ASPHALT SURFACE COURSE, MIX 'C', N50 (IL 9.5 mm)	4% @ 50 GYR	1 ½"	PERRY STREET
HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N70 (IL 9.5 mm)	4% @ 70 GYR	1 ½"	LEE STREET
LEVELING BINDER (MACHINE METHOD), N50	4% @ 50 GYR	3"	PERRY STREET
LEVELING BINDER (MACHINE METHOD), N70	4% @ 70 GYR	1"	LEE STREET
HOT-MIX ASPHALT PATCHING	^		
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER IL-19.0mm)	4% @ 50 GYR	VARIES	LEE STREET AND PERRY STREET
CLASS D PATCHES, HOT-MIX ASPHALT BINDER, IL-19.0mm	4% @ 70 GYR	12"	LEE STREET AND PERRY STREET
HOT-MIX ASPHALT DRIVEWAY PAVEMENT			
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL 9.5mm)	4% @ 50 GYR	2"	PERRY STREET
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0) MIX "C", N50	4% @ 50 GYR	6" (TWO LIFTS)	PERRY STREET
MISCELLANEOUS			
INCIDENTAL HOT-MIX ASPHALT SURFACING (HMA SURFACE COURSE, MIX "C", N50) (IL 9.5mm)	4% @ 50 GYR	2" & VARIES	LEE STREET AND PERRY STREET

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

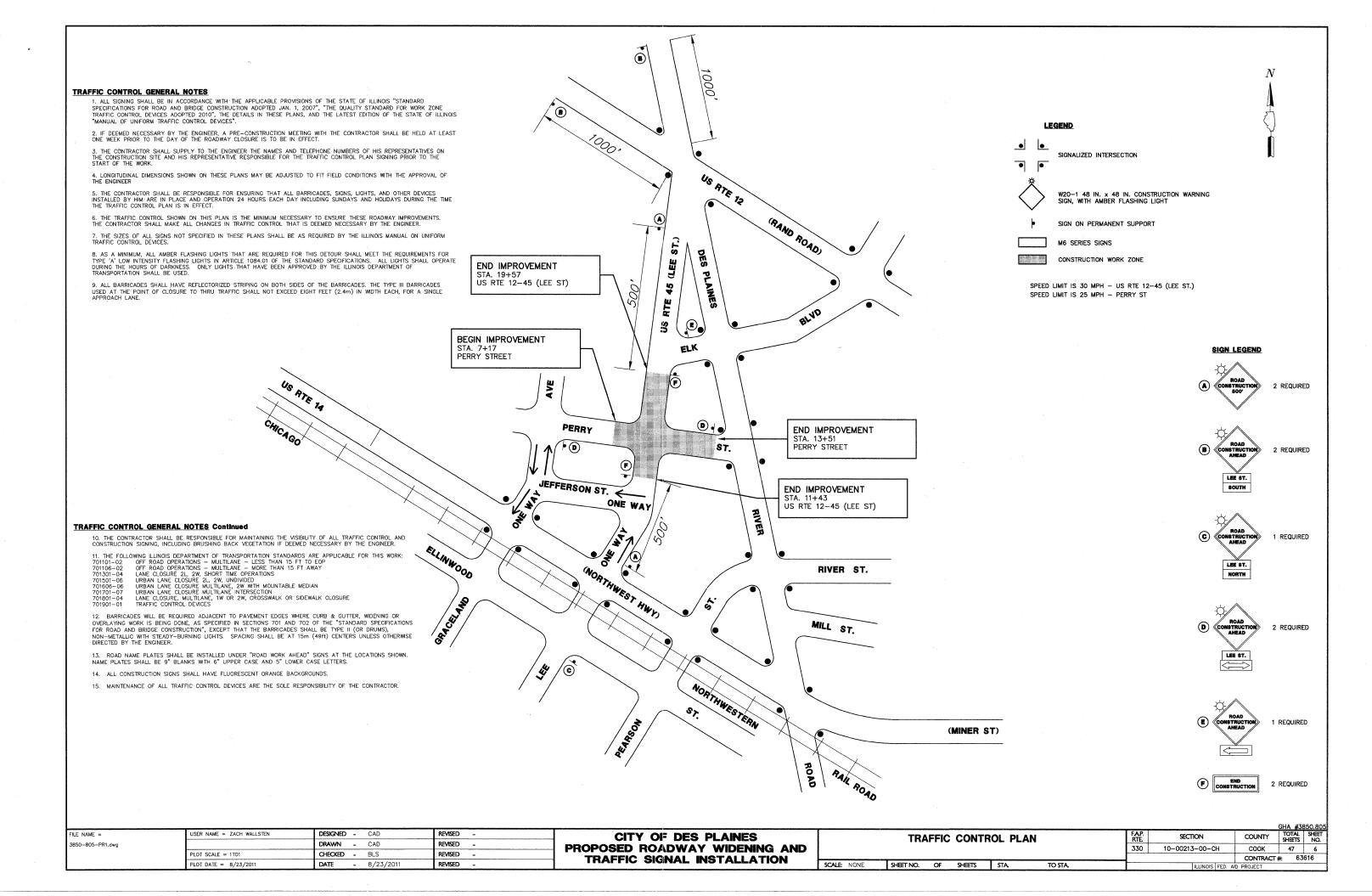
THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA, THE "AC TYPE" SHALL BE "PG 64-22" UNLESS OTHERWISE MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

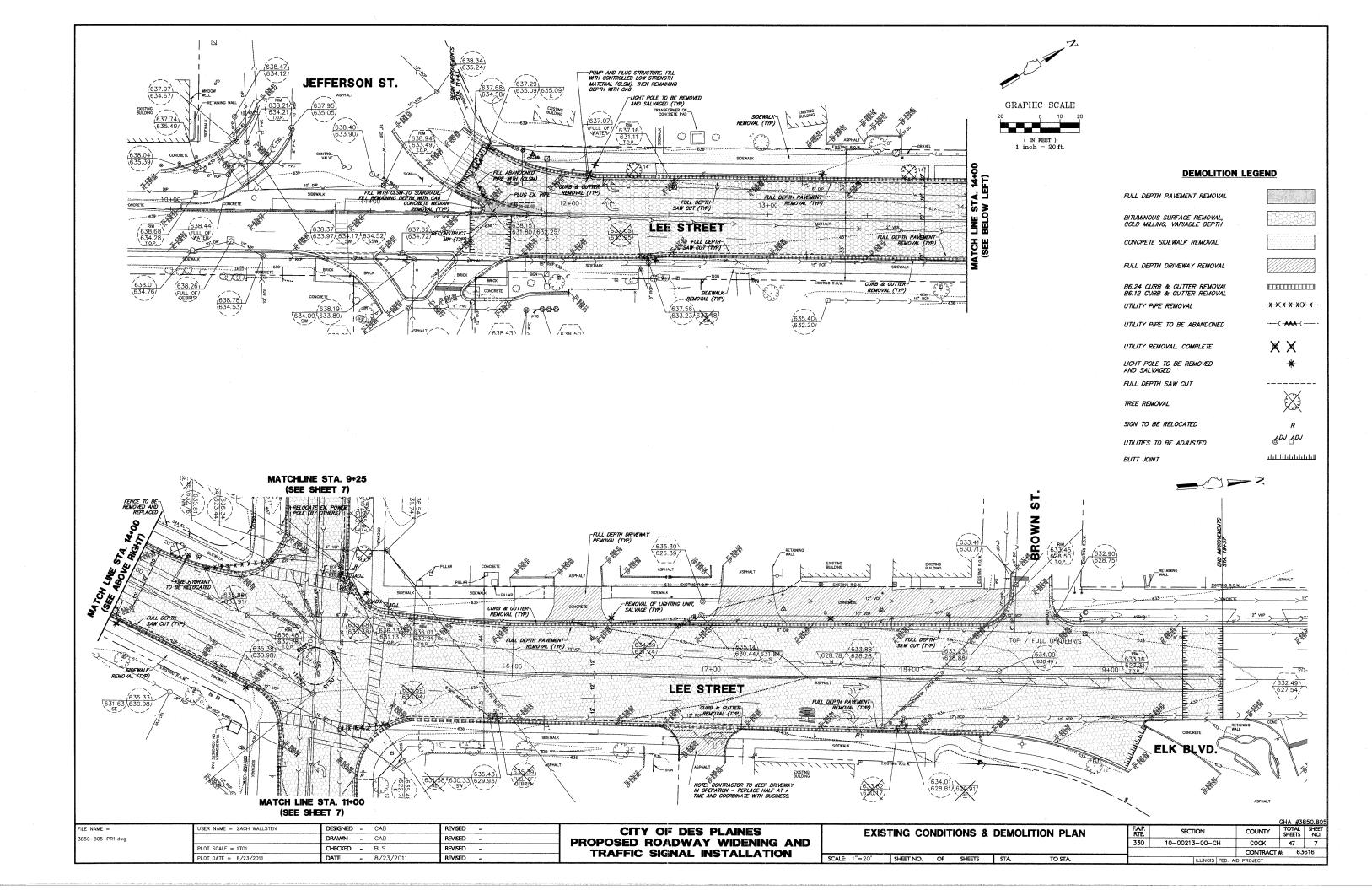
FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

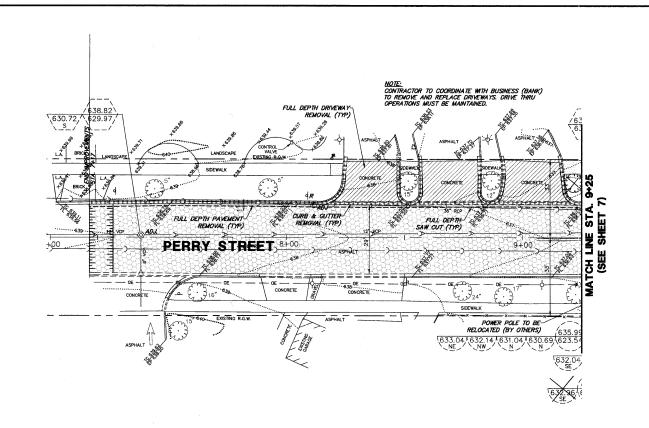
CITY OF DES PLAINES
PROPOSED ROADWAY WIDENING AND

TRAFFIC SIGNAL INSTALLATION

GHA #3850											
		TYPIC	CAL	CROSS	SECTI	ONS	FAP. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					330	10-00213-00-CH	COOK	47	5		
								CONTRACT	#: 63	616	
	SCALE: NONE	SHEET NO.	OF	SHEETS		ILLINOIS FED. A	D PROJECT				







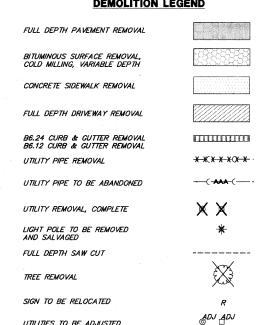
FILE NAME =

3850-805-PR1.dwg

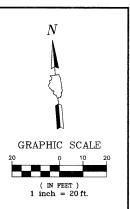
PLOT SCALE = 1T01

PLOT DATE = 8/23/2011

DEMOLITION LEGEND



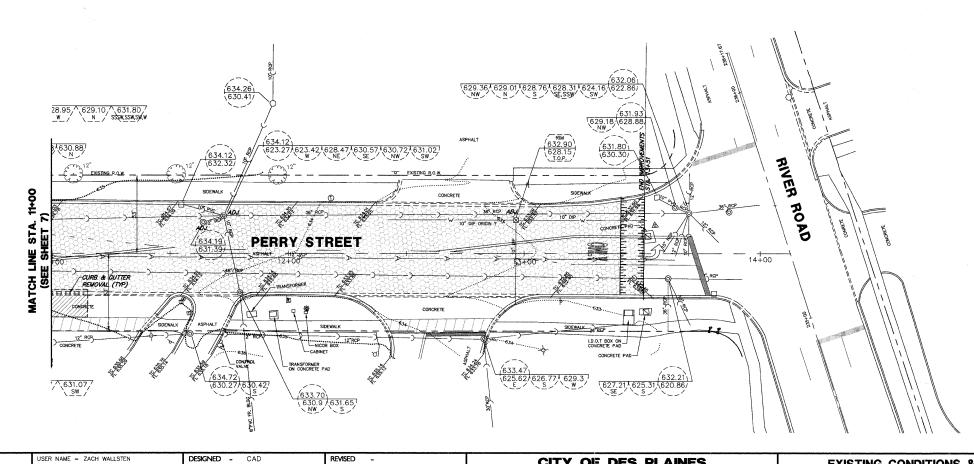
UTILITIES TO BE ADJUSTED



COUNTY TOTAL SHEET NO.

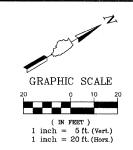
CONTRACT #: 63616

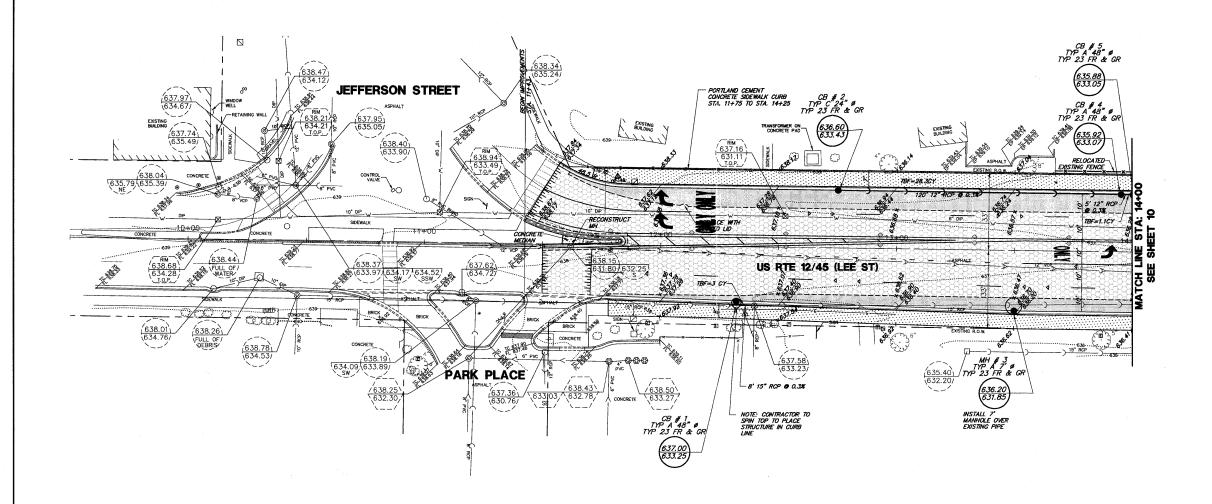
COOK 47 8

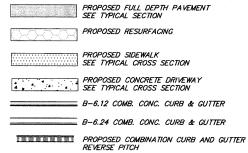


	DESIGNED - CAU	KEYIJED -	CITY OF DES PLAINES
	DRAWN - CAD	REVISED -	PROPOSED ROADWAY WIDENING AND
_	CHECKED - BLS	REVISED -	TRAFFIC SIGNAL INSTALLATION
	DATE - 8/23/2011	REVISED -	INAFFIC SIGNAL INSTALLATION

EXIS	TING CO	NDIT	IONS &	DEMO	LITION PLAN	F.A.P. RTE.	SECTION
						330	10-00213-00-CH
COME 4" 00'	al impression		CI IEEE		TO 47		
SCALE : 1"=20'	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI



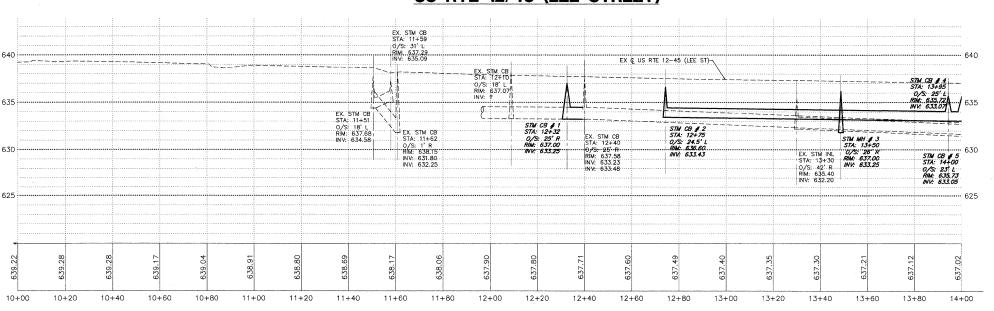




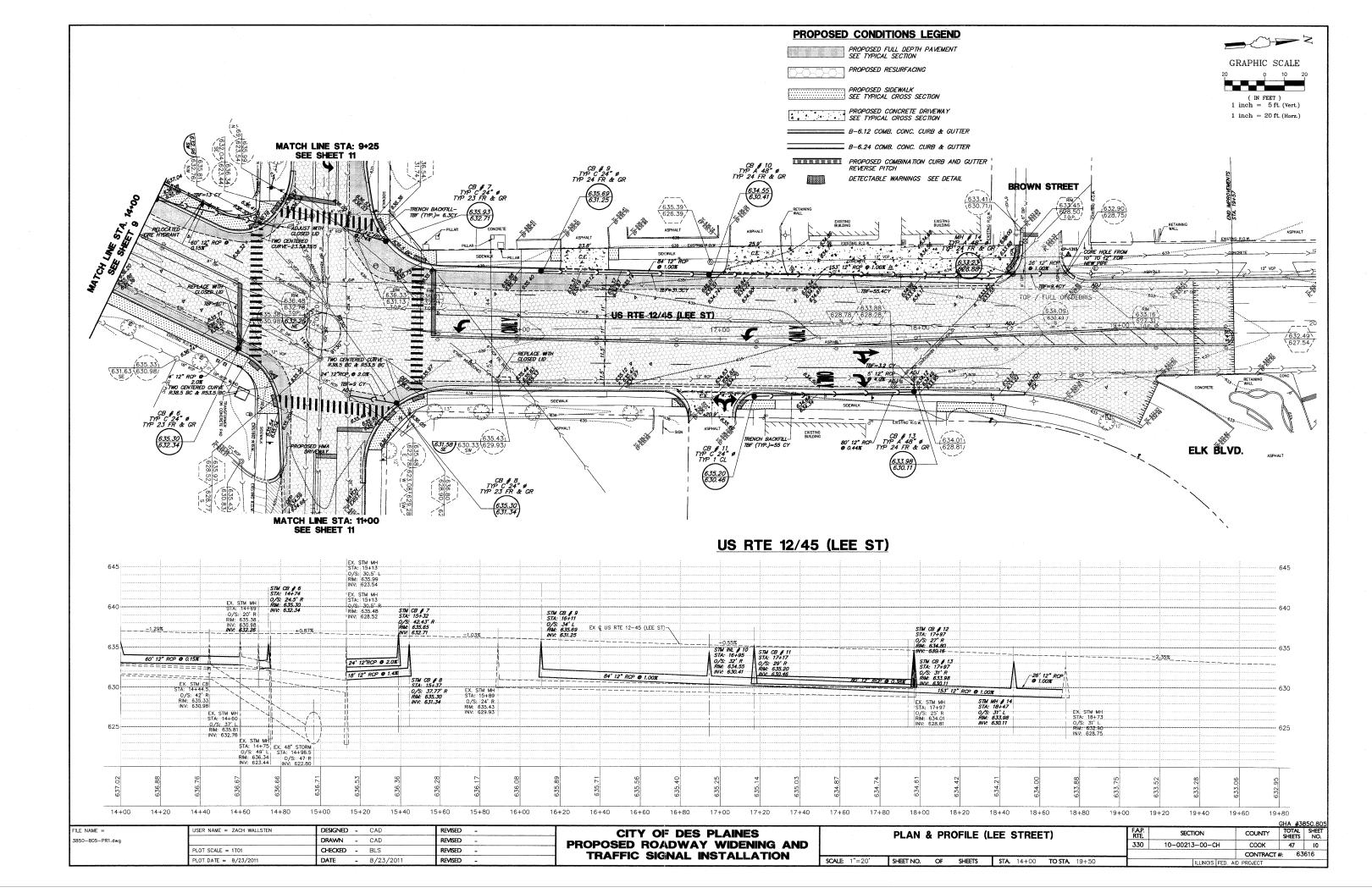
PROPOSED CONDITIONS LEGEND

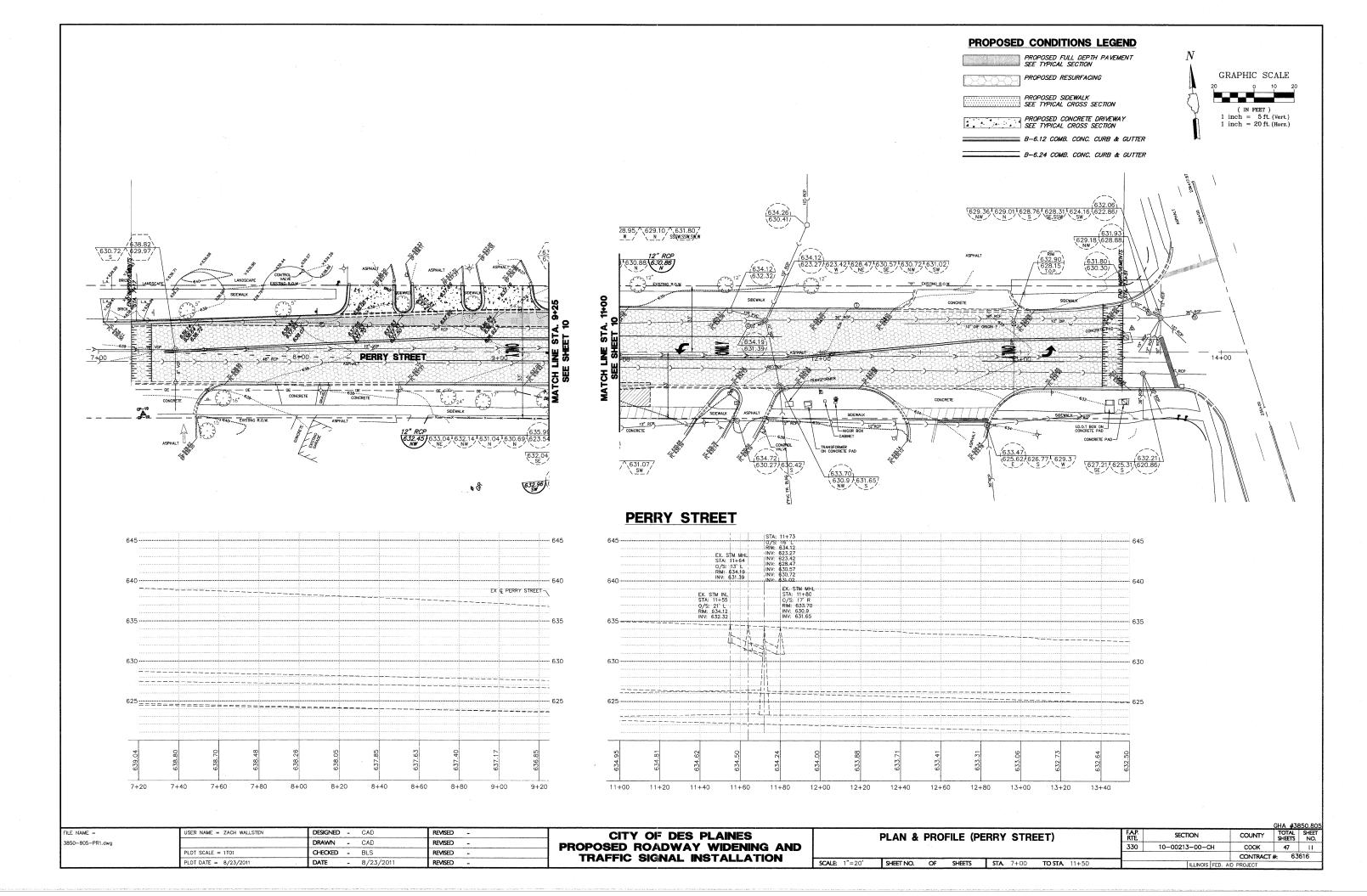
DETECTABLE WARNINGS SEE DETAIL

US RTE 12/45 (LEE STREET)



FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - CAD	REVISED -	CITY OF DES PLAINES	PLAN & PROFILE (LEE STREET)	FAP. SECTION	COLINER	TOTAL SHEET SHEETS NO.
3850-805-PR1.dwg		DRAWN - CAD	REVISED -	PROPOSED ROADWAY WIDENING AND		330 10-00213-00-	-CH COOK	47 9
	PLOT SCALE = 1T01	CHECKED - BLS	REVISED -	TRAFFIC SIGNAL INSTALLATION			CONTRACT	r#: 63616
	PLOT DATE = 8/23/2011	DATE - 8/23/2011	REVISED -	THAT TO SIGNAL INSTALLATION	SCALE: 1"=20' SHEET NO. OF SHEETS STA 10+00 TO STA 14+00	ILLINOI	S FED. AID PROJECT	





EXISTING SIGN LOG

LEE - SOUTH BOUND

STA.11+26 RIGHT TURN ARROW STA.11+50 NO LEFT TURN

STA.12+13 NO LEFT TURN STA.12+66 EAST RT. 12/SOUTH RT. 45/RIGHT ARROW STA.13+25 DUAL RIGHT TURN ARROWS/NO PARKING

STA.14+26 RIGHT TURN ARROW/15 MPH AHEAD STA.15+60 PEDESTRIAN CROSSING/NO PARKING STA.17+60 SCHOOL ZONE SPEED LIMIT 20 MPH

LEE - NORTH BOUND

STA.12+43 NO PARKING/SCHOOL ZONE/SPEED LIMIT 20 STA.14+75 PEDESTRIAN CROSSING STA.15+49 DES PLAINES ELK LODGE STA.17+52 SPEED LIMIT 30/NO PARKING STA.18+55 RT. 45/RT. 12/RIGHT ARROW

PERRY - EAST BOUND

STA.7+54 PRIVATE PROPERTY PEDESTRIAN CROSSING/NO PARKING STA.8+51 STOP SIGN/CROSS TRAFFIC DOES NOT STOP STA.9+39 STA.10+66 NO PARKING OR STOPPING STA.11+95 NO PARKING OR STOPPING

STA.13+16 TURN ARROWS/NO PARKING OR STOPPING

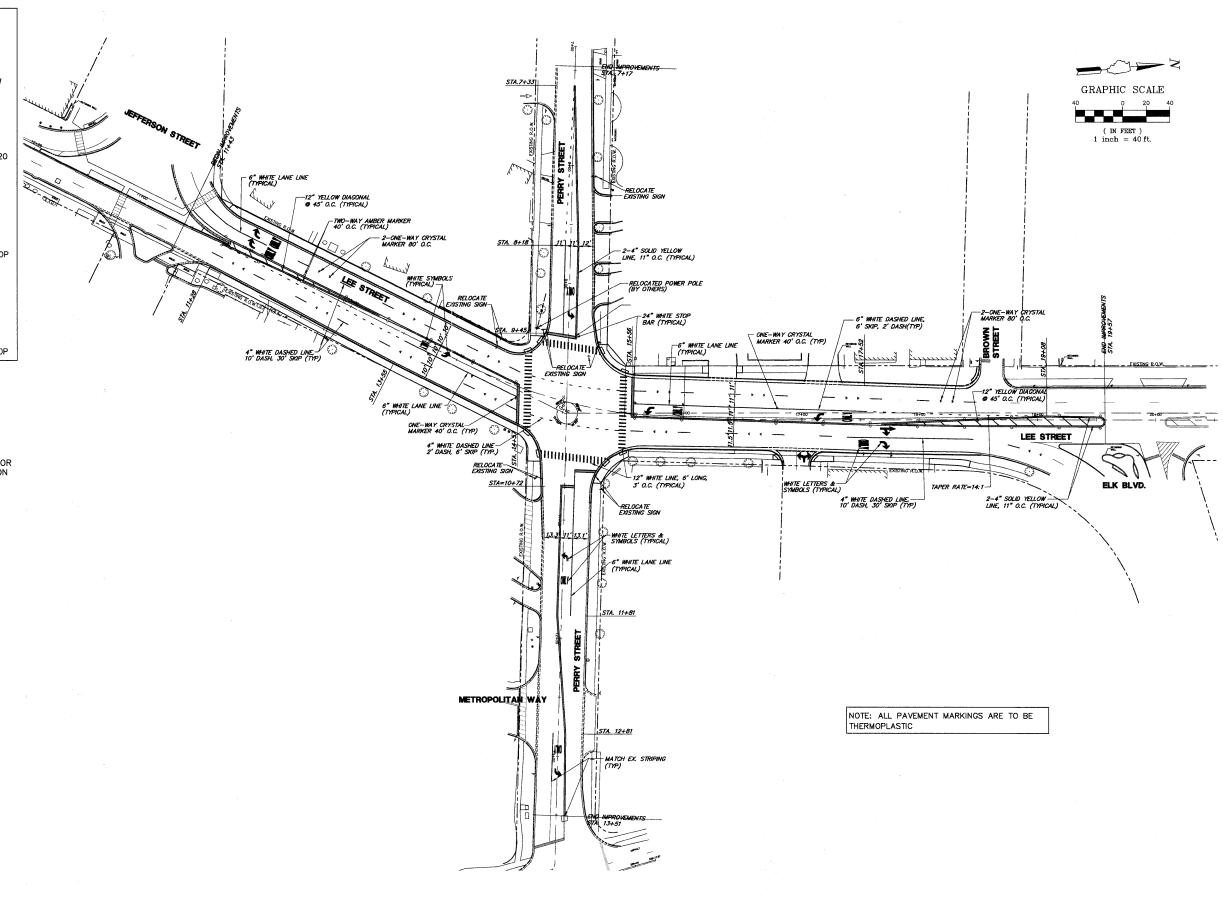
PERRY - WEST BOUND

STA.7+27 NO PARKING/STOPPING SPEED LIMIT 25 STA.8+09

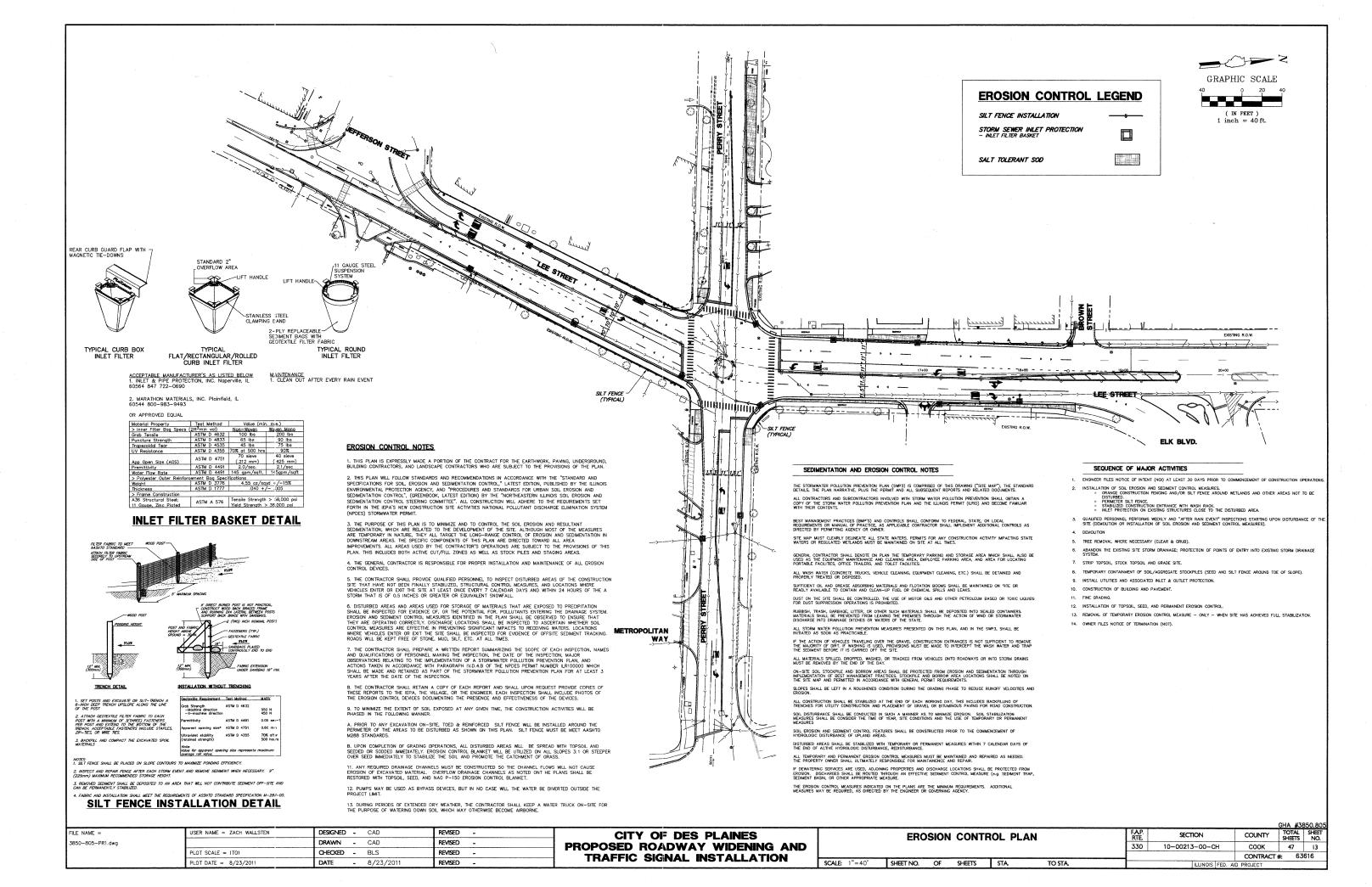
STA.9+60 NO TRUCKS

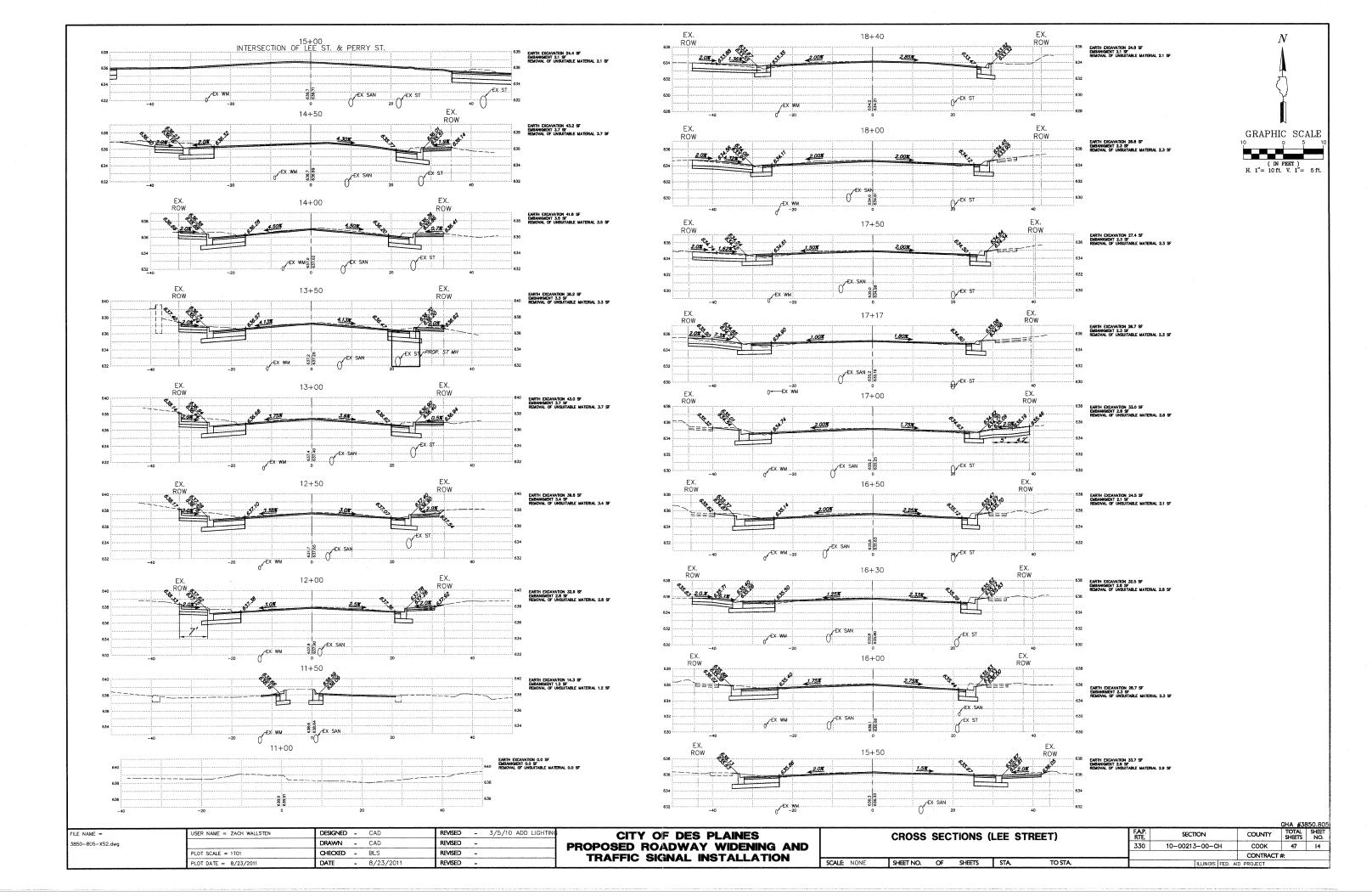
STA.10+62 STOP SIGN/CROSS TRAFFIC DOES NOT STOP

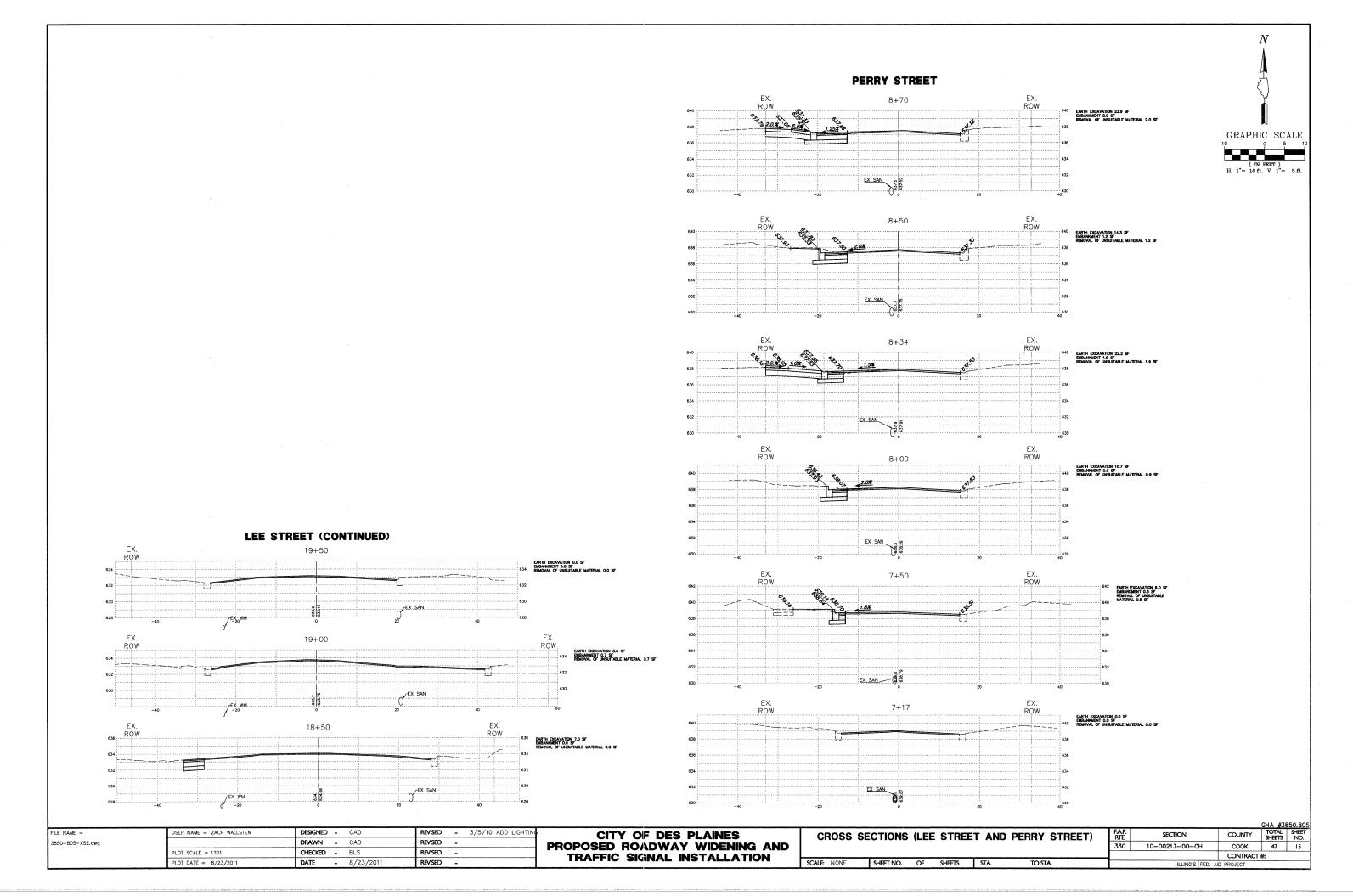
EXISTING SIGNAGE NOTE:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR
RELOCATING ANY SIGN DUE TO ROADWAY WIDENING OR
REPLACING ANY SIGN DAMAGED DUE TO CONSTRUCTION
OPERATIONS.

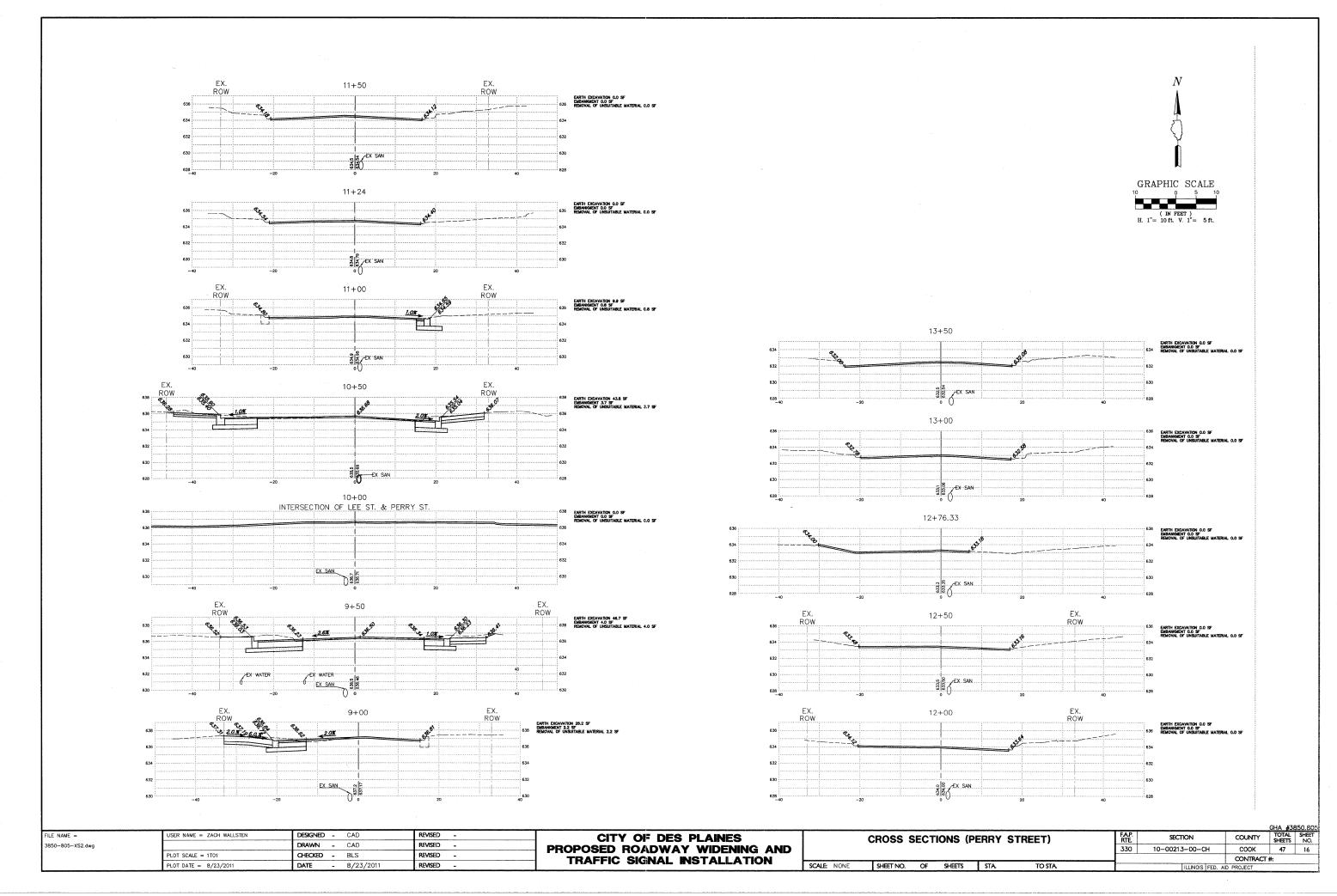


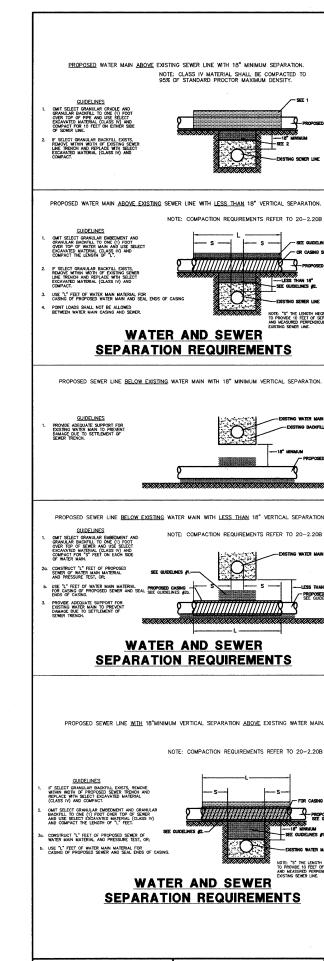
									GHA #3850.	.805
FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - CAD	REVISED -	CITY OF DES PLAINES	PAVEMENT MARKING PLAN	FAP.	SECTION	COUNTY	TOTAL SHE	E
3850-805-PR1.dwg		DRAWN - CAD	REVISED -	PROPOSED ROADWAY WIDENING AND	LVATIMENT MINIMALENIA	330	10-00213-00-CH	соок	47 !	12
	PLOT SCALE = 1TO1	CHECKED - BLS	REVISED	TRAFFIC SIGNAL INSTALLATION	` *	000	10 00213 00 011	CONTRACT #	# 63616	_
	PLOT DATE = 8/23/2011	DATE - 8/23/2011	REVISED -	INAFFIC SIGNAL INSTALLATION	SCALE: 1"=40' SHEET NO. OF SHEETS STA. TO STA.	1	LILINOIS FED. AIT	PROJECT		-

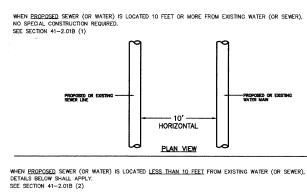


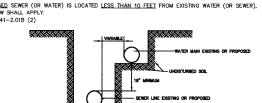




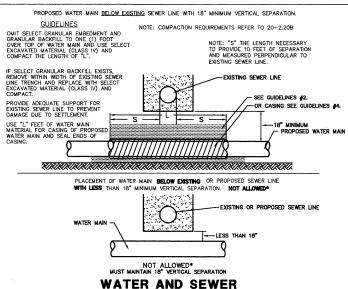


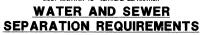






WATER AND SEWER SEPARATION REQUIREMENTS

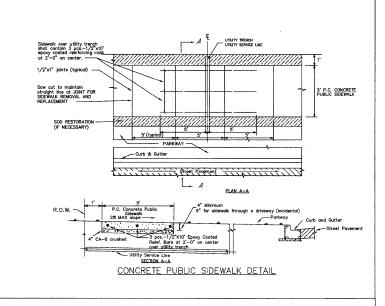


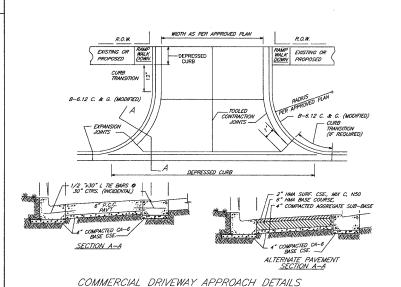


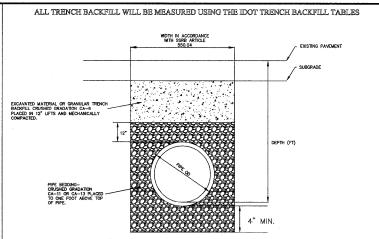
TYPE I

WATERMAIN CROSSING

45' BENDS WITH RETAINER GLANDS -

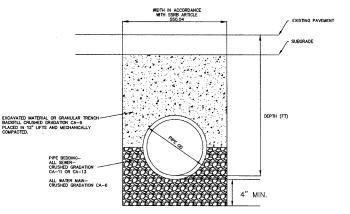






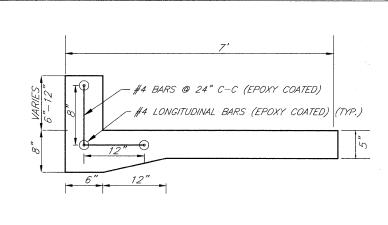
TRENCH BACKFILL DETAIL PVC SEWER

ALL TRENCH BACKFILL WILL BE MEASURED USING THE IDOT TRENCH BACKFILL TABLES

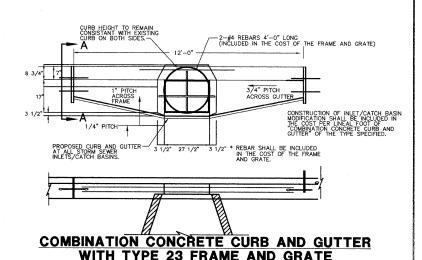


TRENCH BACKFILL DETAIL ALL SEWER AND WATER (EXCEPT PVC)

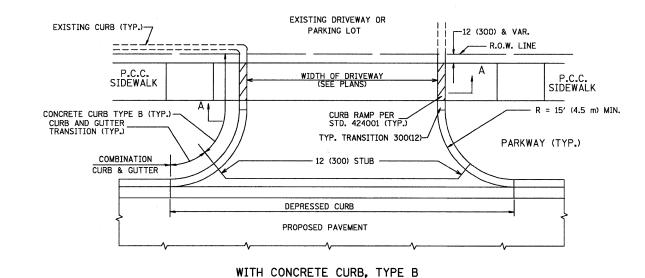
- PIPE OPENINGS TO BE PRECAST INTO WALLS.
- PRECAST REINFORCED CONCRETE SECTIONS WITH PREFORMED BITUMINOUS JOINTS AND INTEGRAL PRECAST BOTTOMS. FRAME TO BE LAID IN 3/4" MASTIC BED.
- ADJUSTING RINGS NOT TO EXCEED 8".
- NEENAH R-4340-B ROUND BEEHIVE GRATE IN GRASS AREAS. INLETS IN PAVEMENT AREAS SHALL BE NEENAH R-2015-D.
- TWO 10' LONG 4" PERFORATED PVC SDR 35 FINGER DRAINS REQUIRED IN ALL PROPOSED PAVEMENT AREAS. SEE FINGER DRAIN DETAIL.

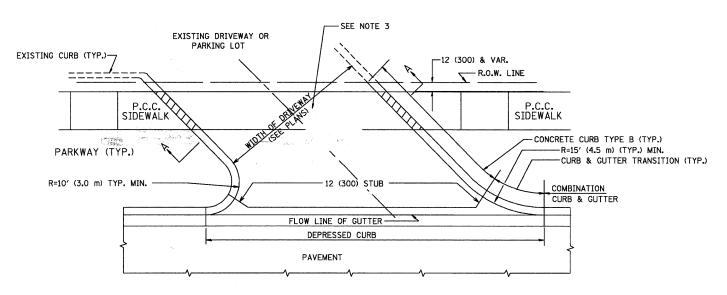




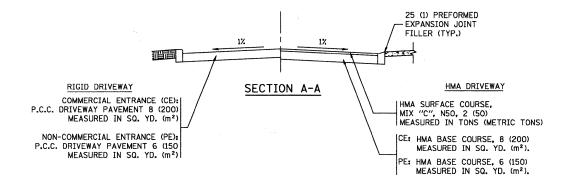


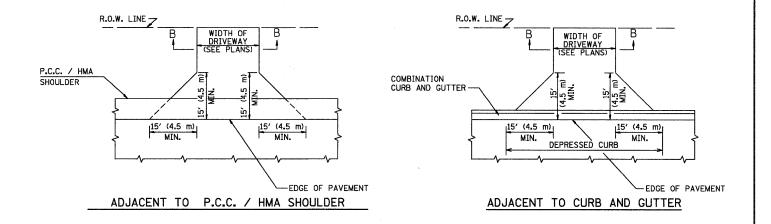
												71112 (1)		GHA #38	850.80	5
FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - CAD	RI	REVISED -	CITY OF DES PLAINES			DETAIL	2		FAP.	SECTION	COUNTY	TOTAL	SHEET	-
3850-805-DT1.dwg		DRAWN - CAD	RI	REVISED -	PROPOSED ROADWAY WIDENING AND			DE I AIL	3		330	10_00017_00_04	LAKE	SHEETS	NO.	-
	PLOT SCALE = 1T01	CHECKED - BLS	Ri	REVISED -							330	10-00213-00-CH	CONTRACT	T# 67	3616	-
	PLOT DATE = 8/23/2011	DATE - 8/23,	3/2011 RI	REVISED -	TRAFFIC SIGNAL INSTALLATION	SCALE: NONE SHE	EET NO. OF	SHEETS	STA.	TO STA.	1	ILLINOIS FED.	AID PROJECT	, # . 00		-

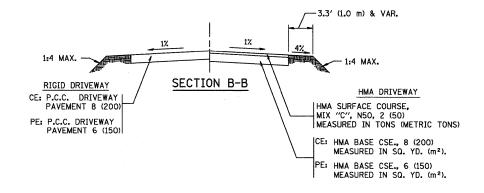




WITH CONCRETE CURB, TYPE B







RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE, MIX "C", N5O, 2 (50) MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200) MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

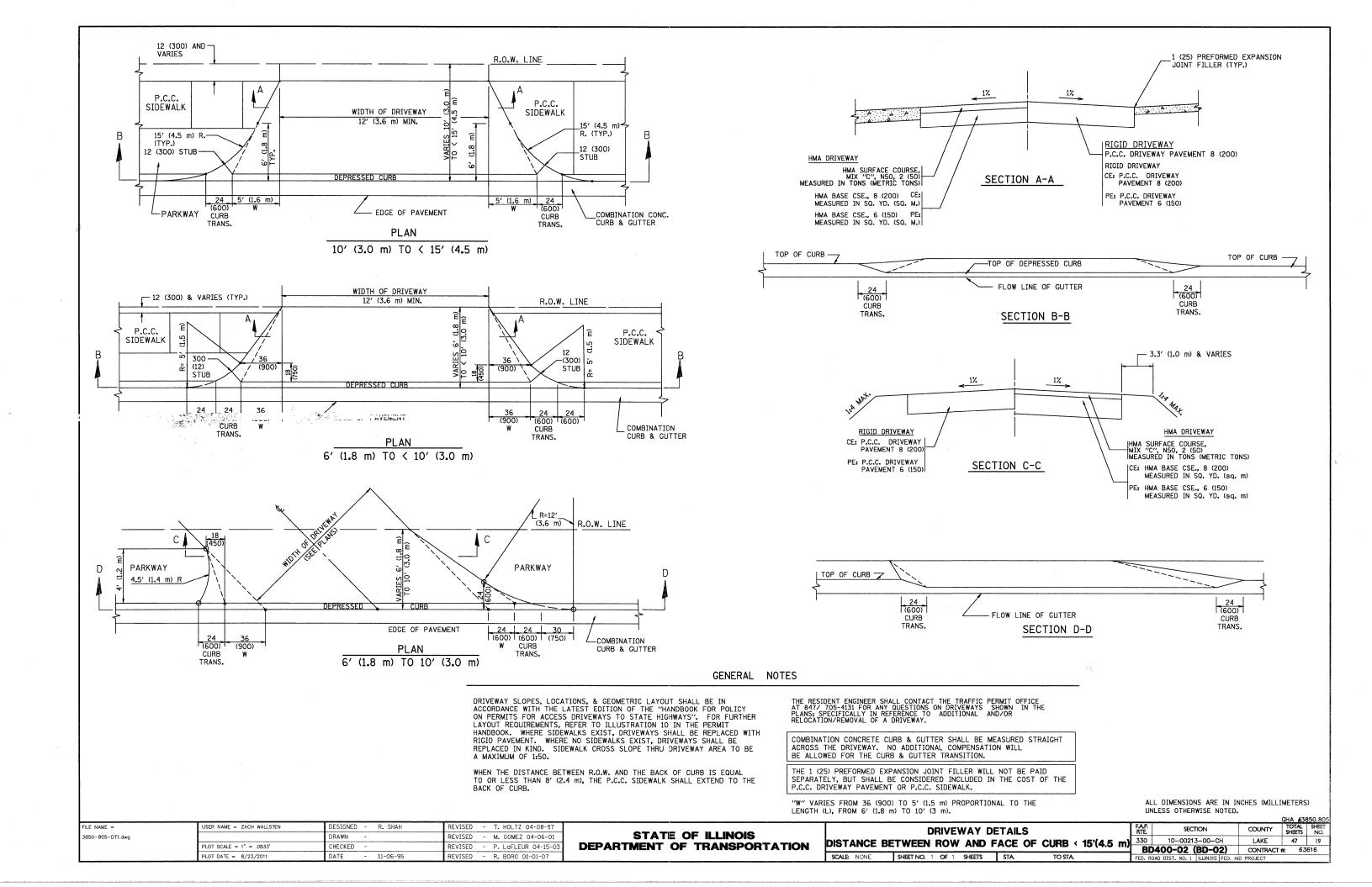
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

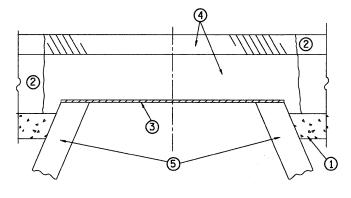
FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01
3850-805-DT1.dwg		DRAWN -	REVISED - P. LaFLUER 04-15-03
	PLOT SCALE = 1" = .0833'	CHECKED -	REVISED - R. BORO 01-01-07
	PLOT DATE = 8/23/2011	DATE - 11-04-95	REVISED - R. BORO 06-11-08

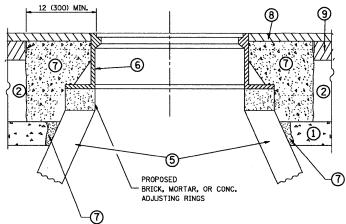
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.			
AND FACE C	OF CURB & EDGE OF	SHOULDER >= 15' (4.5 m)) [
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	٦,

			GHA #3850.805				
FAP. RTE	SECT	ПОМ	COUNTY	TOTAL SHEETS	SHEET NO.		
330	10-0021	3-00-CH	LAKE	47	18		
BC	0156-07	(BD-01)	CONTRACT #	¢: 63	616		
FED. R	OAD DIST. NO. 1	ILLINOIS FED. A	D PROJECT				







NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 11/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1*
 CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.
- *UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

LEGEND

- 1 SUB-BASE GRANULAR MATERIAL
- 6 FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT
- (7) CLASS PP-1* CONCRETE
- 3 36 (900) DIAMETER METAL PLATE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- (5) EXISTING STRUCTURE
- 8 PROPOSED HMA SURFACE COURSE
- 9 PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

 $\underline{\textbf{BASIS OF PAYMENT:}} \quad \text{THIS WORK WILL BE PAID FOR AT}$ THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL" NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

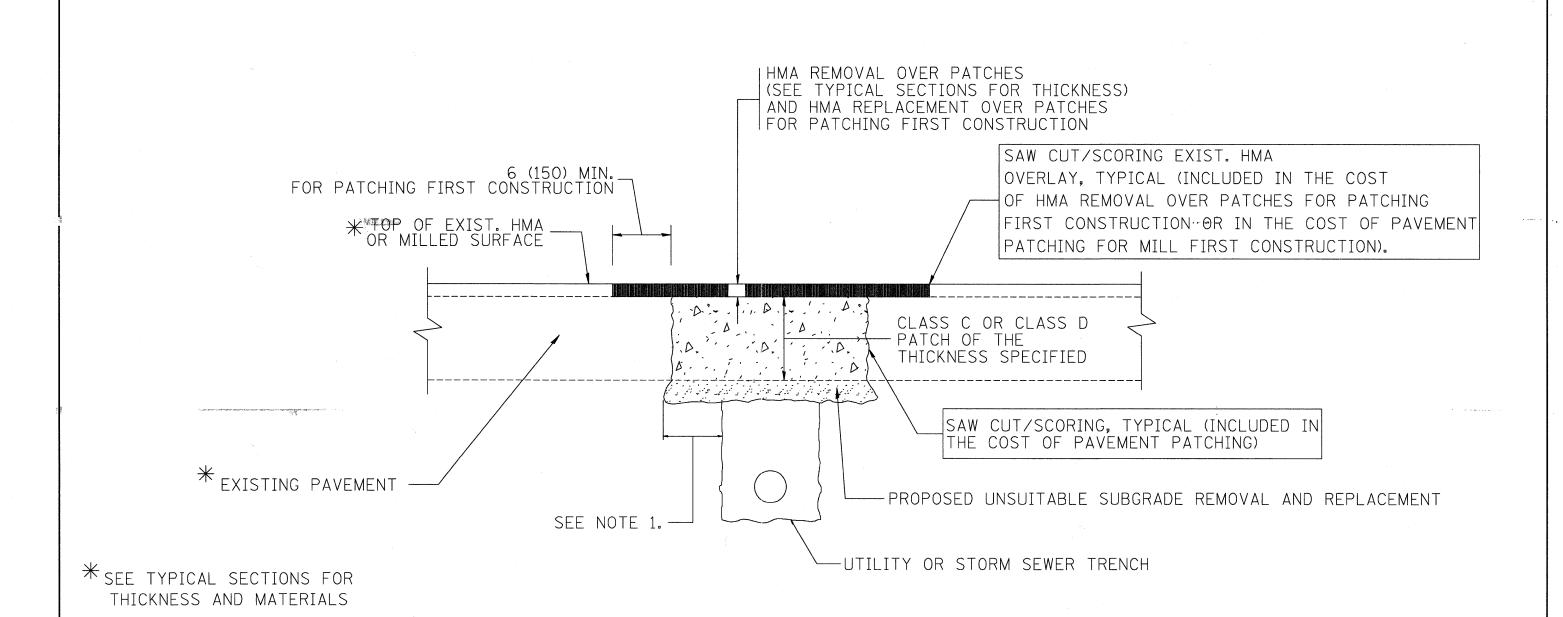
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - R. SHAH	REVISED - A. ABBAS 03-21-97
3850-805-DT1.dwg		DRAWN -	REVISED - R. WIEDEMAN 05-14-04
İ	PLOT SCALE = 1" = .0833'	CHECKED -	REVISED - R. BORO 01-01-07
	PLOT DATE = 8/23/2011	DATE - 10-25-94	REVISED - R. BORO 03-09-11

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	DETAILS FOR										
-	FRAME	S AND L	LIDS	ADJUST	MENT	WITH MILLING					
	SCALE: NONE	SHEET NO. 1	1 OF 1	SHEETS	STA.	TO STA.					

TOTAL SHEET NO. SECTION COUNTY 10-00213-00-CH LAKE 47 20 BD600-03 (BD-8) CONTR CONTRACT #: 63616



NOTES:

- 1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
- 2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

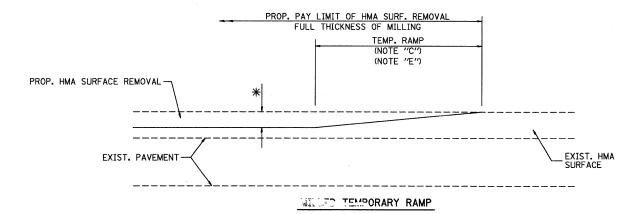
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

- 1. MILL HMA FIRST IF THERE IS AT LEAST 4/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

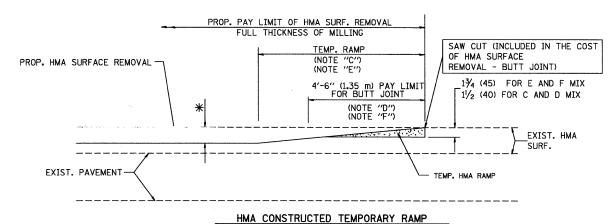
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - R. SHAH	REVISED -	A. ABBAS 04-27-98	STATE OF ILLINOIS		PAVEN	MENT PAT	CHING FO	R	FAP. RTE.	SECTION	COUNTY		SHEET NO.
3850-805-DT1.dwg	PLOT SCALE = 1" = .0833'	CHECKED -	REVISED -	R. BORO 01-01-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT			330	10-00213-00-CH	LAKE	47	21		
	PLOT DATE = 8/23/2011	DATE - 10-25-94	REVISED -	K, ENG 10-27-08		SCALE NONE	SHEET NO. 1	OF 1 SHEETS	STA.	TO STA.	FED. RO.	400-04 (BD-22) AD DIST. NO. 1 ILLINOIS FED. A	CONTRACT ID PROJECT	r#: 636	616



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

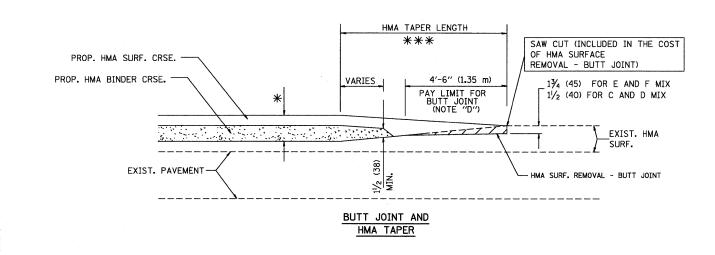
OPTION 1



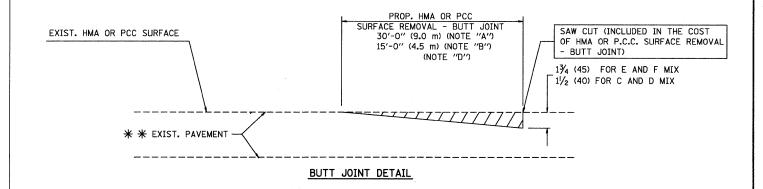
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

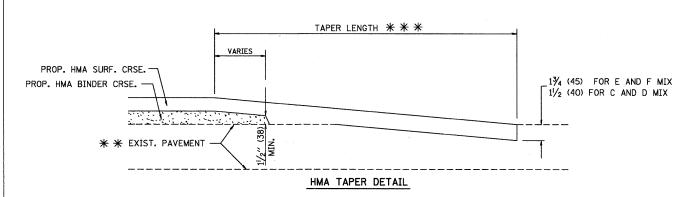
OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

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

BASIS OF PAYMENT:

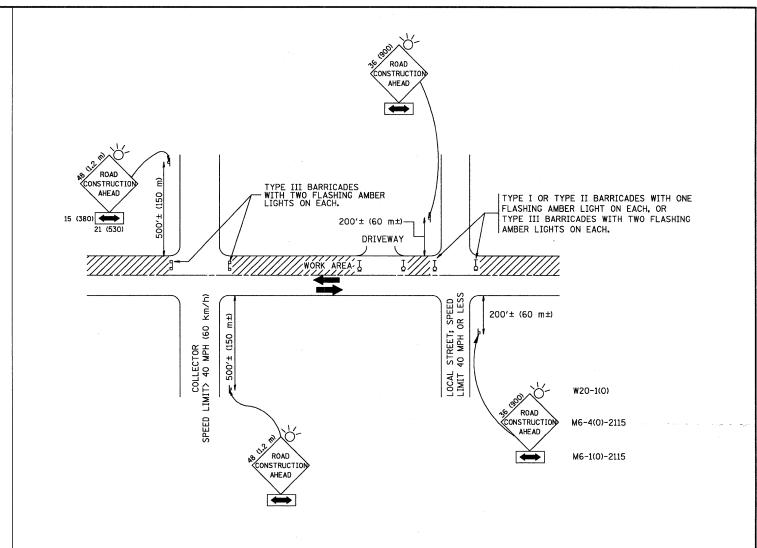
THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

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

			,-:
FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
3850-805-DT1.dwg		DRAWN ~	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 1" = .0833'	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 8/23/2011	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HMA TAPER DETAILS	330	10-00213-00-CH	LAKE	47	22
	В	3D400-05 BD32	CONTRACT	#: 63	616
CALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED, R	OAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		



NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- Q) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 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:
- d) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48×48 (1.2 m \times 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

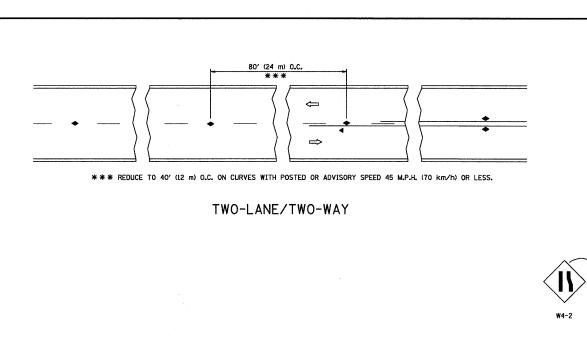
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL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

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

FILE NAME =	USER NAME == ZACH WALLSTEN	DESIGNED	-	LHA	REVISED	-	J. OBERLE 10-18-95
3850-805-DT1.dwg		DRAWN	-		REVISED	-	A. HOUSEH 03-06-96
	PLOT SCALE = 1" = .0833'	CHECKED	-		REVISED	-	A. HOUSEH 10-15-96
	PLOT DATE = 8/23/2011	DATE	-	06-89	REVISED	_ T.	RAMMACHER 01-06-00

STAT	E O	F ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

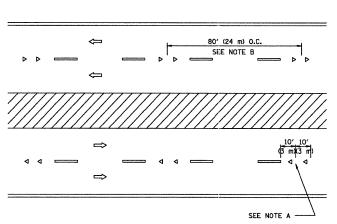
_								GHA #3	850.8
	TRAFFIC CONTROL AND PROTECTION FOR				FAP. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEE
	SIDE RO	ADS. INTERSECTION	IS ANI	DRIVEWAYS	330	10-00213-00-CH	LAKE	47	23
			,	· · · · · · · · · · · · · · · · · · ·	4	TC-10	CONTRACT	#: 63	3616
	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. RO	AD DIST, NO. 1 ILLINOIS FED. A	D PROJECT		

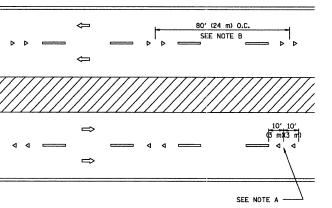


BO' (24 m) O.C.

MULTI-LANE/UNDIVIDED

SEE NOTE A





 \Rightarrow

MULTI-LANE/DIVIDED

GENERAL NOTES

3 **e** 40' (12 m) O.C.

LANE REDUCTION TRANSITION

- 1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

---- YELLOW STRIPE

SEE NOTE A

TWO-WAY LEFT TURN

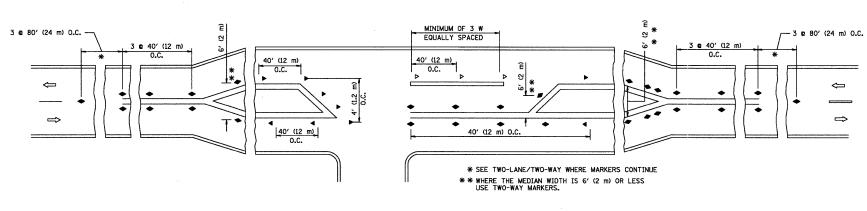
80' (24 m) 0.C. SEE NOTE B

40' (12 m) O.C.

- → WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

DESIGN NOTES

- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
- 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE



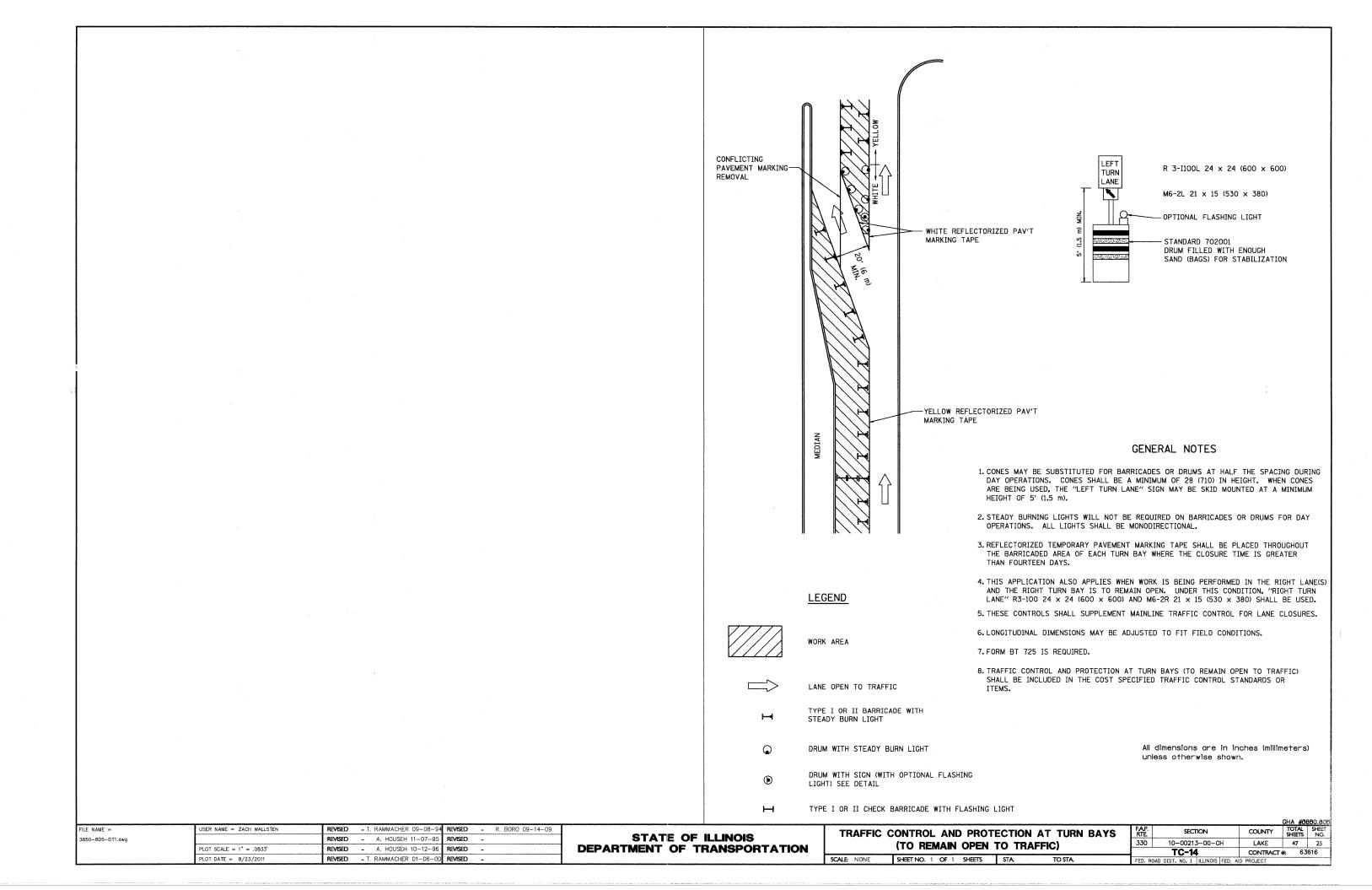
LEFT TURN

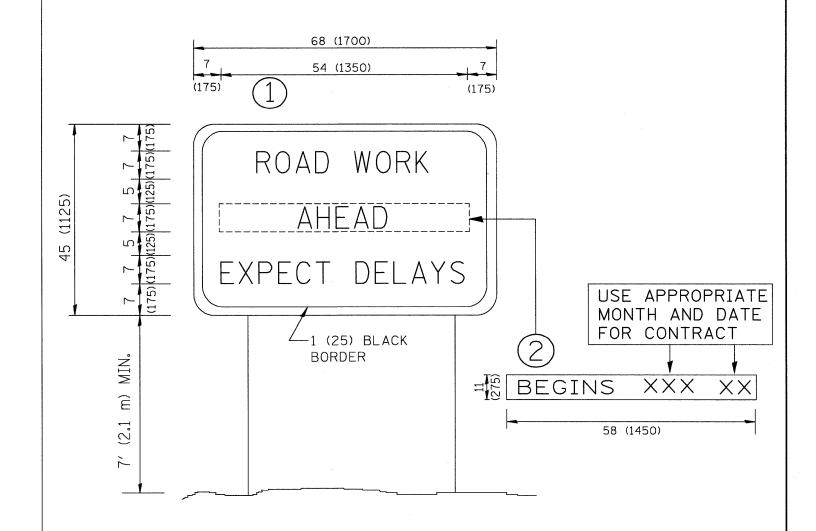
All dimensions are in inches (millimeters) unless otherwise shown.

							GHA #3	850.805
	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
				330	10-00213-00-CH	LAKE	47	24
(SNOW	-PLOW RE	-313 I AF	41)	1	TC-11	CONTRACT	#: 63	5616
SCALE: N.A. SHEET NO. 1 C	OF 1 SHEETS	STA.	TO STA.	EED, RO	AD DIST. NO. 1 JULINOIS FED A	ID PROJECT		

FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED -	REVISED	- T. RAMMACHER 09-19-94
3850-805-DT1.dwg		DRAWN -	REVISED	- T. RAMMACHER 03-12-99
	PLOT SCALE = 1" = .0833"	CHECKED -	REVISED	- T. RAMMACHER 01-06-00
	PLOT DATE = 8/23/2011	DATE -	REVISED	- C. JUCIUS 09-09-09

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**





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.

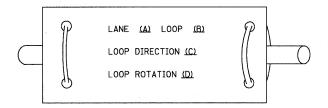
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

							GHA	A #3850.805
FILE NAME =	USER NAME ≃ ZACH WALLSTEN	DESIGNED -	REVISED - R. MIRS 09-15-97		ARTERIAL ROAD	F.A.P. SECTION	COUNTY TO	OTAL SHEET
3850-805-DT1.dwg		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS		330 10-00213-00-CH	LAKE 4	47 26
	PLOT SCALE = 1" = .0833'	CHECKED -	REVISED - T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION	INFORMATION SIGN	TC-22	CONTRACT #:	63616
	PLOT DATE = 8/23/2011	DATE -	REVISED - C. JUCIUS 03-31-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		ID PROJECT	

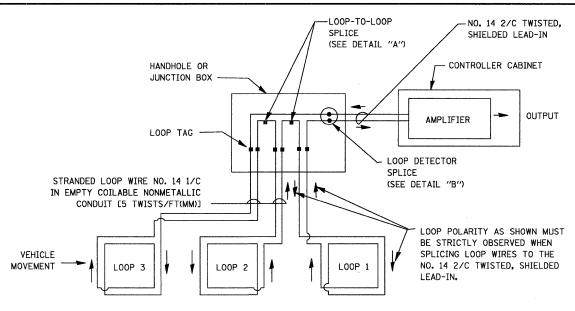
LOOP DETECTOR NOTES

- 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

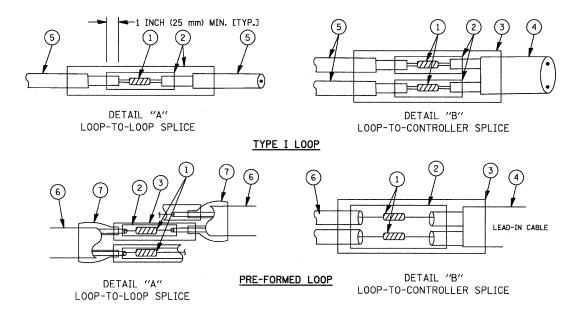


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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.



LOOP DETECTOR SPLICE

- $\hfill \hfill
- (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.
- (6) PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR
 BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

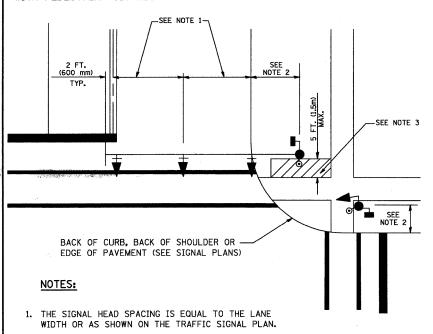
FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED	-	DAD	REVISED	-
3850-805-TR1.dwg		DRAWN	-	BCK	REVISED	-
	PLOT SCALE = 1" = .0833"	CHECKED	-	DAD	REVISED	-
	PLOT DATE = 8/23/2011	DATE	-	10-28-09	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

								GHA #38	850.8 05
		DISTRICT	ONE		FAP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	STANI	DARD TRAFFIC SIGN	AL DE	SIGN DETAILS	330	10-00213-00-CH	(COOK)	47	27
		TAILD IIIAI IIO OIGIN	·			TS-05	CONTRACT	#: 63	616
	SCALE: NONE	SHEET NO. 1 OF 6 SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		

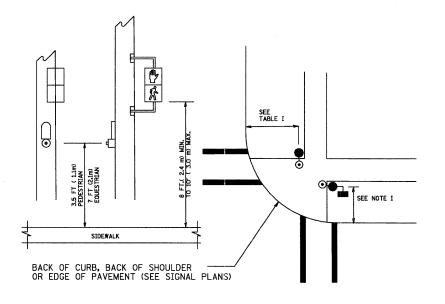
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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



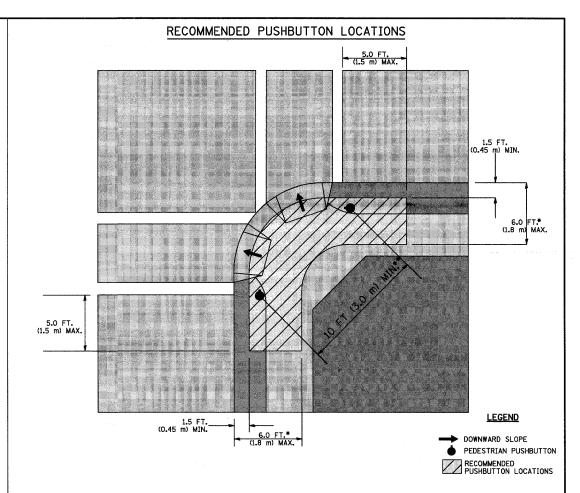
- Z. KEPER TO THE PRAFFILO STORAG EQUITMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE 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."



- 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:

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.

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.

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.

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.

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:

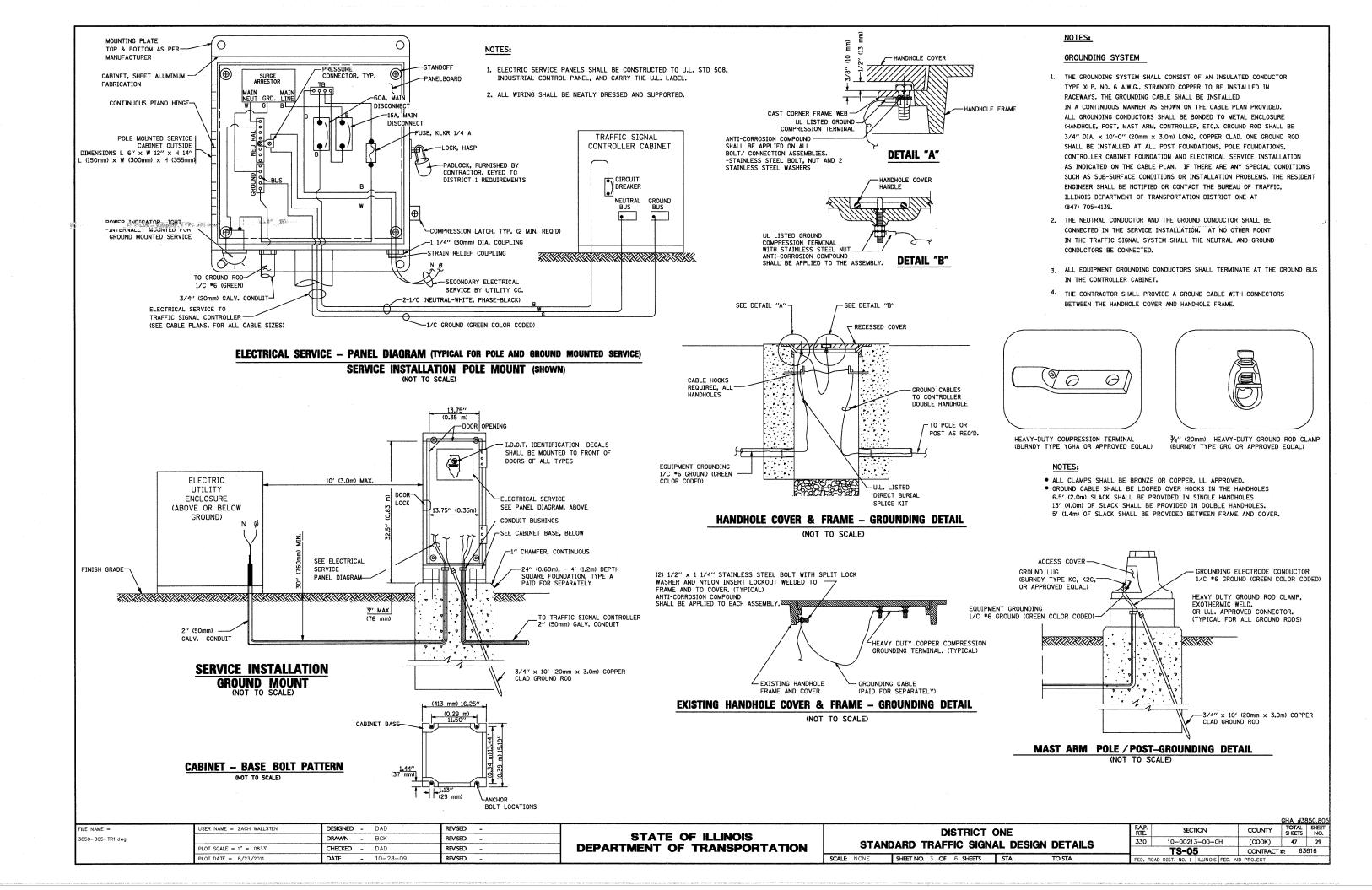
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE 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.

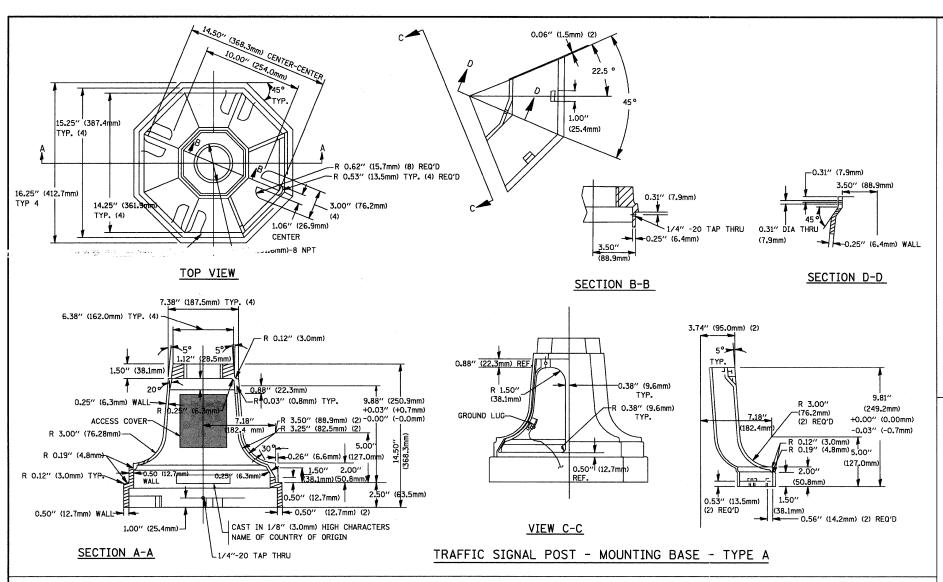
FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED -	DAD	REVISED	-	Γ
3850-805-TR1.dwg		DRAWN -	BCK	REVISED	-	1
	PLOT SCALE = 1" = .0833'	CHECKED -	DAD	REVISED		l
	PLOT DATE = 8/23/2011	DATE -	10-28-09	REVISED	-	1

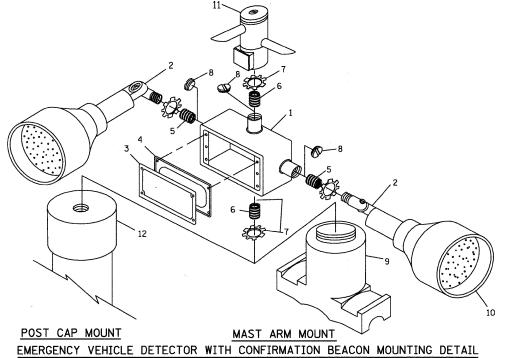
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

			D	ISTRICT (ONE		FAP. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
.	STAND	ARD T	RAF	FIC SIGNA	AL DESIG	ON DETAILS	330	10-00213-00-CH	(COOK)	47	28
١ ١					,			TS-05	CONTRACT	#: 63	616
	SCALE: NONE	SHEET NO.	2 OF	6 SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		-

CHA #3850 805







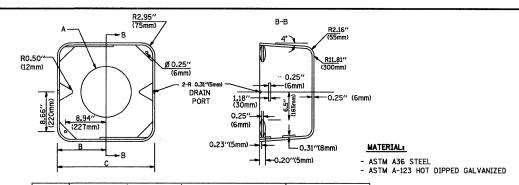
FILE NAME =

3850-805-TR1.dwg

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:

- 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-0-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 ¾"(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.

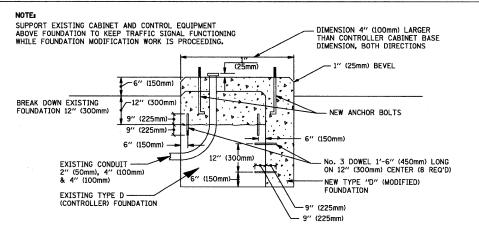


A	В	С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

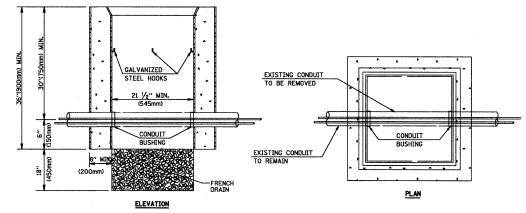
SHROUD

NOTES:

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



MODIFY EXISTING TYPE "D" FOUNDATION



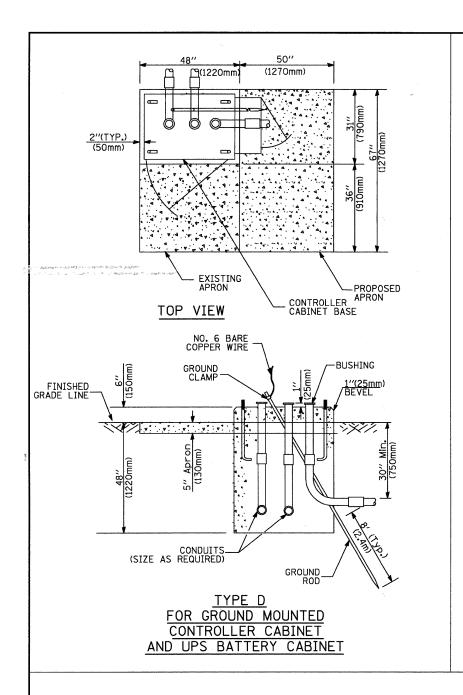
NOTES:

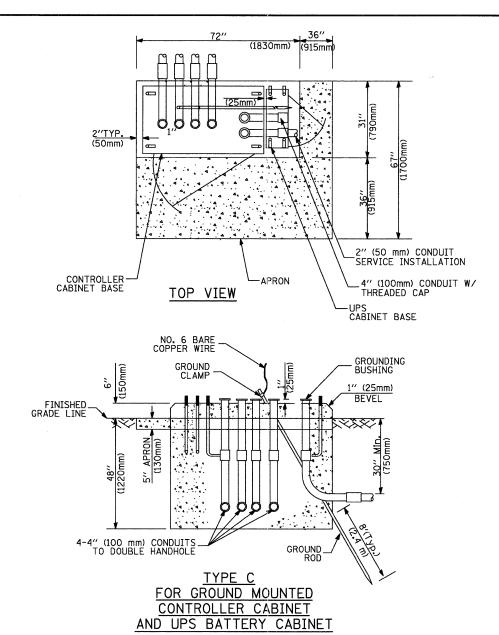
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

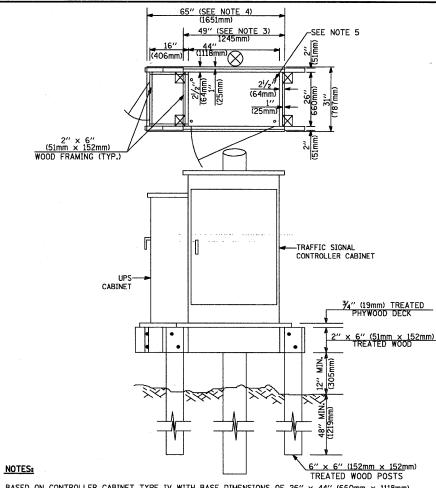
HANDHOLE TO INTERCEPT EXISTING CONDUIT

						GHA #38	850.80
DISTRICT	ONE		FAP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGN	AL DESIG	N DETAILS	330	10-00213-00-CH	(COOK)	47	30
				TS-05	CONTRACT	#: 63	3616
SCALE: NONE SHEET NO. 4 OF 6 SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO. 1 ILLINOIS FED. A	AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION







- 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

TICAL	CARLE	LENCTH	

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	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0'' (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

- These foundation depths are for sites which have cohesive soils (clayey slit, 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.
- 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 most arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

									י ווו ושע	OF MAST ALM F	COND	MITONO, III			,
														GHA #385	50.805
ILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - DAD	REVISED -				ř	DISTRICT	ONE		FAP.	SECTION	COUNTY	TOTAL	SHEET
850-805-TR1.dwg	14	DRAWN - BCK	REVISED -	STATE OF ILLINOIS			_				330	10-00213-00-CH	(COOK)	A7	NO.
	PLOT SCALE = 1" = .0833'	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATI	ION	SIAN	IDARD IRAI	FFIC SIGI	NAL DESI	GN DETAILS	330	TS-05	CONTRACT	r#: 636°	316
	PLOT DATE = 8/23/2011	DATE - 10-28-09	REVISED -			SCALE: NONE	SHEET NO. 5 O	F 6 SHEETS	STA.	TO STA.	FED. ROA		AID PROJECT	m. 000	
														A STATE OF THE STA	

TRAFFIC SIGNAL LEGEND REMOVAL **EXISTING** PROPOSED REMOVAL **EXISTING** PROPOSED REMOVAL EXISTING PROPOSED ITEM ELECTRIC CABLE IN CONDUIT, TRACER. ^r≪ \boxtimes R ---1)-- \boxtimes EMERGENCY VEHICLE LIGHT DETECTOR \otimes CONTROLLER CABINET lacksquareNO. 14 1/C, UNLESS NOTED OTHERWISE R_{o-0} CONFIRMATION BEACON RAILROAD CONTROL CABINET B>>B · • 0-(COAXIAL CABLE E C C CC COMMUNICATIONS CABINET СС MASTER CONTROLLER EMC MC H H VENDOR CABLE FOR CAMERA Н HEAVY DUTY HANDHOLE MASTER MASTER CONTROLLER EMMC MMC R_{\square} COPPER INTERCONNECT CABLE, UPS UPS EUPS Δ UNINTERRUPTIBLE POWER SUPPLY DOUBLE HANDHOLE NO. 18 3 PAIR TWISTED, SHIELDED 0 JUNCTION BOX SERVICE INSTALLATION, -D^P FIBER OPTIC CABLE (P) POLE OR (G) GROUND MOUNT GALVANIZED STEEL CONDUIT NO. 62.5/125, MM12F IN TRENCH (T) OR PUSHED (P) TELEPHONE, CONNECTION P 'n T FIBER OPTIC CABLE (P) POLE OR (G) GROUND MOUNT --(24F)-TEMPORARY SPAN WIRE, TETHER WIRE, NO. 62.5/125, MM12F SM12F AND CABLE STEEL MAST ARM ASSEMBLY AND POLE FIBER OPTIC CABLE NO. 62.5/125, ALUMINUM MAST ARM ASSEMBLY AND POLE 0 COMMON TRENCH CT (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS) COILABLE NONMETALLIC CONDUIT (EMPTY) CNC STEEL COMBINATION MAST ARM 0-X-"o-¤— ASSEMBLY AND POLE WITH LUMINAIRE GROUND ROD AT (C) CONTROLLER, SYSTEM ITEM S (H) HANDHOLE, (P) POST, (M) MAST ARM, STEEL COMBINATION MAST ARM OR (S) SERVICE INTERSECTION ITEM ΤP PTZ1 ASSEMBLY AND POLE WITH PTZ CAMERA CONTROLLER CABINET AND REMOVE ITEM 0 SIGNAL POST RO FOUNDATION TO BE REMOVED \boxtimes RELOCATE ITEM TEMPORARY WOOD POLE (CLASS 5 OR \otimes R⊗ STEEL MAST ARM POLE AND BETTER) 45 FOOT (13.7m) MINIMUM ABANDON ITEM FOUNDATION TO BE REMOVED R GUY WIRE 12" (300mm) TRAFFIC SIGNAL SECTION ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED SIGNAL HEAD -> 12" (300mm) RED WITH 8" (200mm) SIGNAL HEAD CONSTRUCTION STAGES YELLOW AND GREEN TRAFFIC SIGNAL FACE STEEL COMBINATION MAST ARM ASSEMBLY (NUMBERS INDICATE THE CONSTRUCTION STAGE) AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED +C^R SIGNAL HEAD WITH BACKPLATE + + SIGNAL POST AND FOUNDATION ->"P" SIGNAL HEAD OPTICALLY PROGRAMMED -**►**′′P′ SIGNAL FACE -\(\subsection ''P'' TO BE REMOVED FLASHER INSTALLATION O-⊳′′F′′ **●**→"F" O-Ö>"F" INTERSECTION & SAMPLING (S DENOTES SOLAR POWER) IS IS (SYSTEM) DETECTOR PEDESTRIAN SIGNAL HEAD -0 -S S SAMPLING (SYSTEM) DETECTOR SIGNAL FACE WITH BACKPLATE. PEDESTRIAN PUSHBUTTON DETECTOR (e) 0 "P" INDICATES PROGRAMMED HEAD EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR ® APS @APS APS EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR ILLUMINATED SIGN 9 9 **9** "NO LEFT TURN" 12" (300mm) PEDESTRIAN SIGNAL HEAD PREFORMED INTERSECTION AND SAMPLING PIS PIS WALK/DON'T WALK SYMBOL (SYSTEM) DETECTOR ILLUMINATED SIGN 1 "NO RIGHT TURN" 12" (300mm) PEDESTRIAN SIGNAL HEAD PS PREFORMED SAMPLING (SYSTEM) DETECTOR INTERNATIONAL SYMBOL, OUTLINED DETECTOR LOOP, TYPE I 12" (300mm) PEDESTRIAN SIGNAL HEAD RAILROAD SYMBOLS Р P INTERNATIONAL SYMBOL, SOLID PREFORMED DETECTOR LOOP PEDESTRIAN SIGNAL HEAD, INTERNATIONAL MICROWAVE VEHICLE SENSOR MM SYMBOL, WITH COUNTDOWN TIMER **EXISTING** PROPOSED (V) ∇ **V** VIDEO DETECTION CAMERA RAILROAD CONTROL CABINET R R R► ◆B ----RADIO INTERCONNECT VIDEO DETECTION ZONE RAILROAD CANTILEVER MAST ARM XOX X X XXXXX RERR ERR RR RADIO REPEATER FLASHING SIGNAL $\times \circ \times$ XOX DENOTES NUMBER OF CONDUCTORS, ELECTRIC PAN, TILT, ZOOM CAMERA PTZ|1 PIZ CABLE NO. 14, UNLESS NOTED OTHERWISE, --(5)--CROSSING GATE X0X> XOX ALL DETECTOR LOOP CABLE TO BE SHIELDED RW (W) (W)WIRELESS DETECTOR SENSOR CROSSBUCK \geq \rightarrow GROUND CABLE IN CONDUIT ----(1)-----WIRELESS ACCESS POINT NO. 6 SOLID COPPER (GREEN) USER NAME = ZACH WALLSTEN DESIGNED - DAD/BCK REVISED -FILE NAME = SECTION COUNTY DISTRICT ONE STATE OF ILLINOIS 3850-805-TR1.dwo DRAWN - BCK REVISED -330 10-00213-00-CH (COOK) 47 32 STANDARD TRAFFIC SIGNAL DESIGN DETAILS **DEPARTMENT OF TRANSPORTATION** CHECKED - DAD REVISED -PLOT SCALE = 1" = .0833 TS-05 CONTR

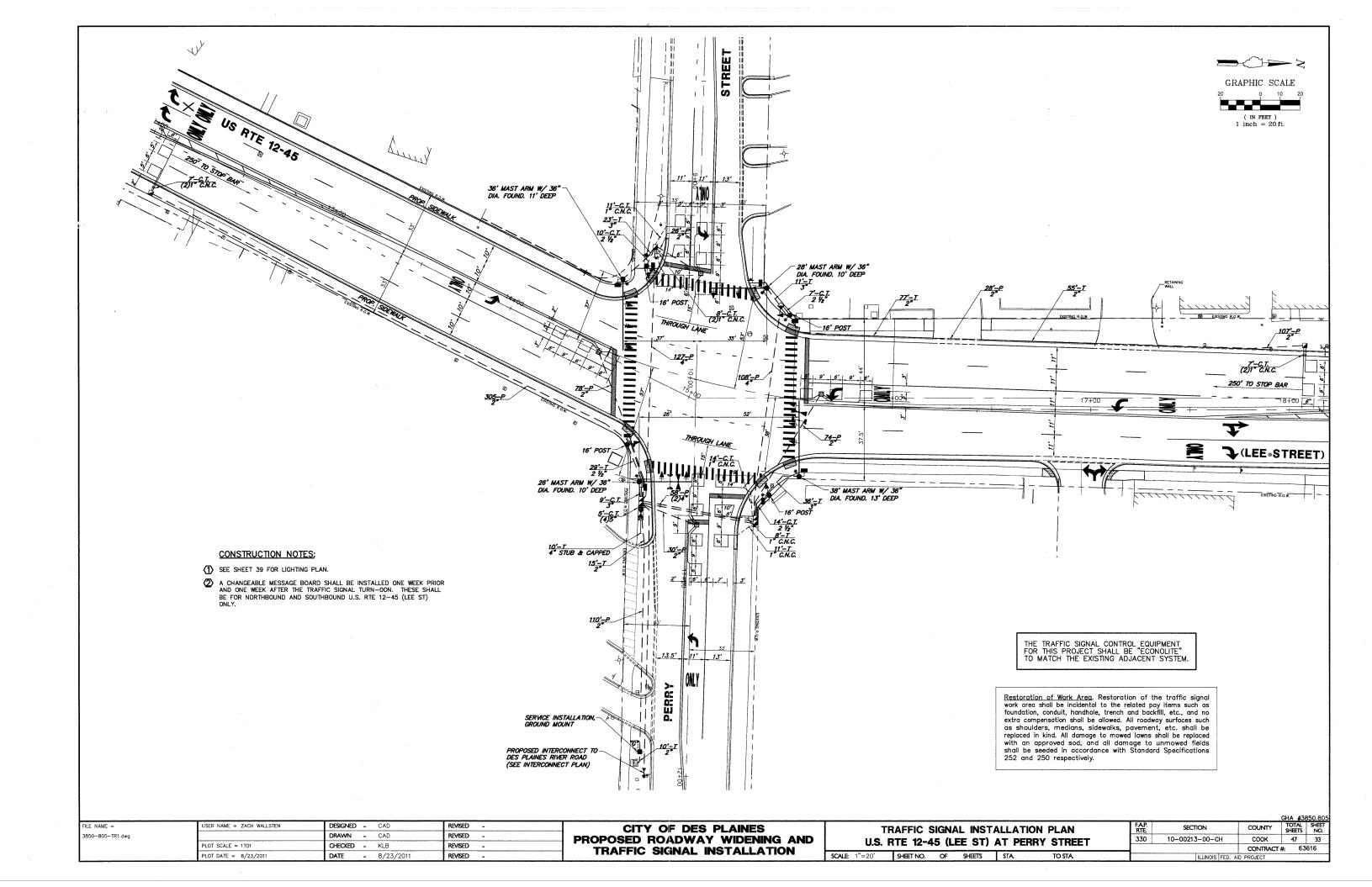
SCALE: NONE SHEET NO. 6 OF 6 SHEETS STA.

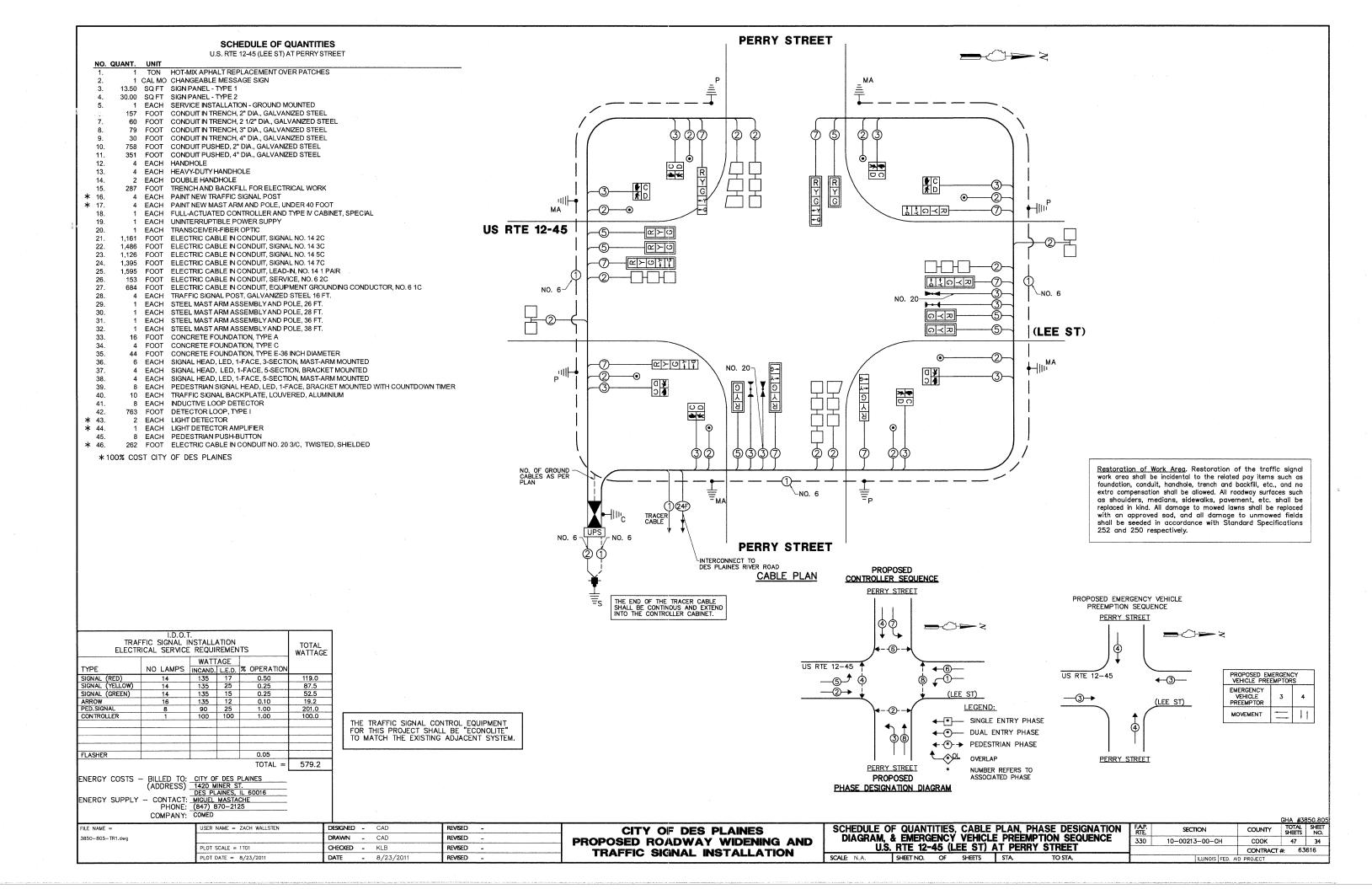
DATE - 10-28-09

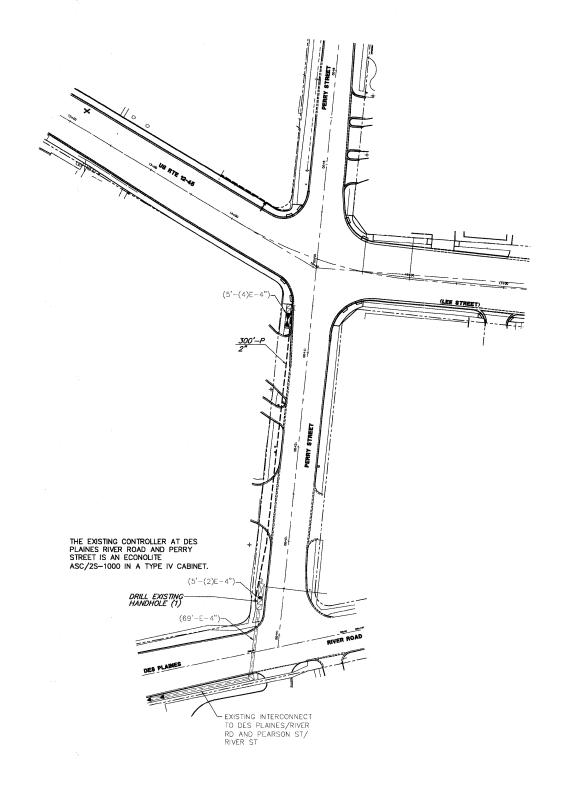
PLOT DATE = 8/23/2011

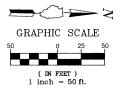
REVISED -

CONTRACT #: 63616





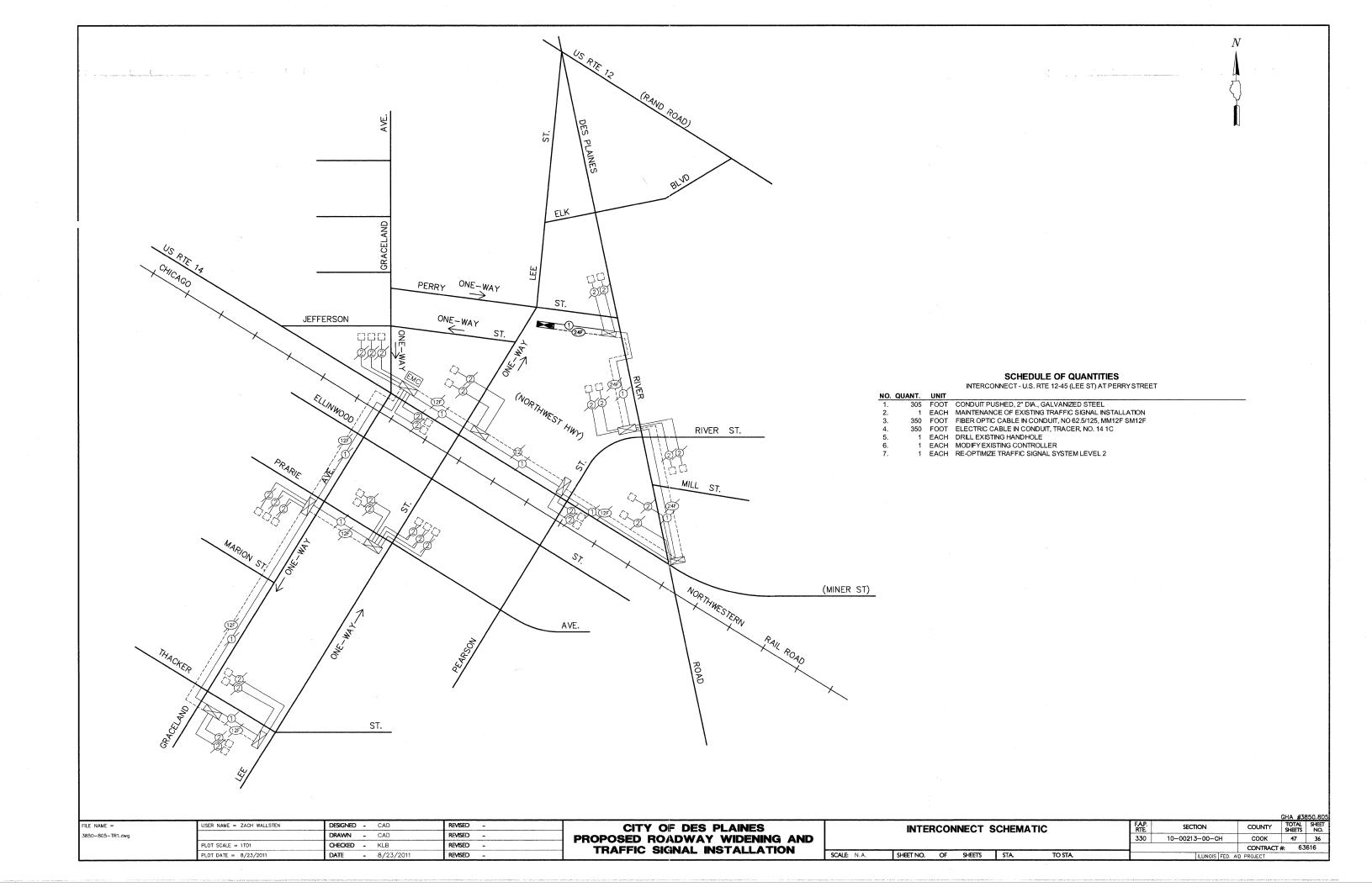


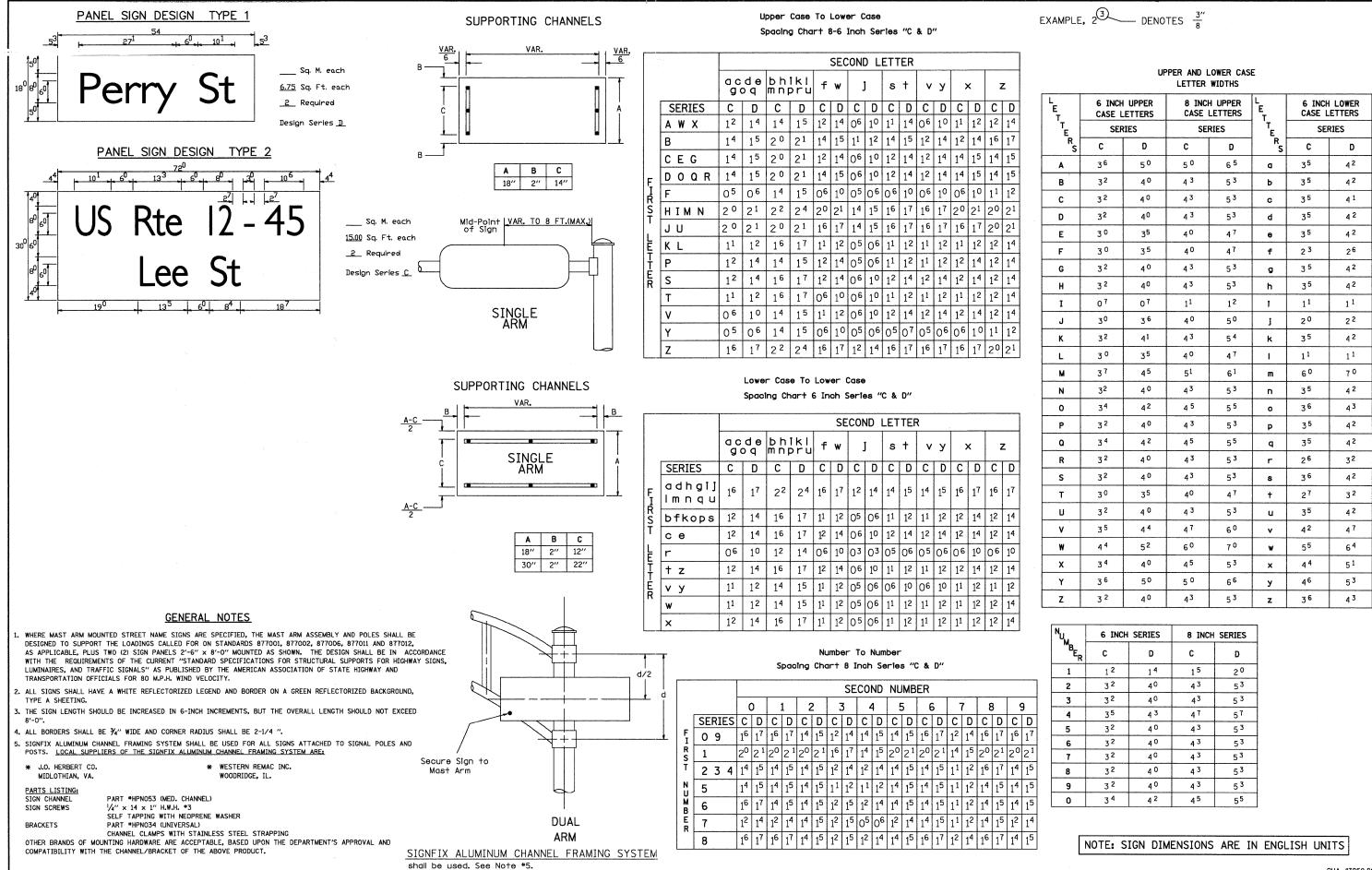


Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, paverment, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively.

FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - CAD	REVISED -	CITY OF DES PLAINES
3850-805-TR1.dwg		DRAWN - CAD	REVISED -	PROPOSED ROADWAY WIDENING AND
	PLOT SCALE = 1TO1	CHECKED - KLB	REVISED	TRAFFIC SIGNAL INSTALLATION
	PLOT DATE = 8/23/2011	DATE - 8/23/2011	REVISED -	IRAFFIC SIGNAL INSTALLATION

				GHA #38	50.805
INTERCONNECT PLAN - PERRY STREET BETWEEN	FAP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
J.S. RTE 12-45 (LEE ST) AND DES PLAINES RIVER ROAD	330	10-00213-00-CH	COOK	47	35
NO. ITTE IZ TO (EEE OT) AND DEG I EARLEG HIVEH HOAD			CONTRACT	#: 630	516
CALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		





STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

FILE NAME =

3850--805--TR1.dwa

JSER NAME = ZACH WALLSTEN

PLOT SCALE = 1" = .0833

PLOT DATE = 8/23/201

DESIGNED - DAG/BCK

CHECKED - DAG/DAD

DRAWN - BCK

REVISED - DAG 10/28/09

REVISED -

REVISED

REVISED

COUNTY 10-00213-00-CH (COOK) 47 37 CONTRACT #: 63616

SECTION

TS-02

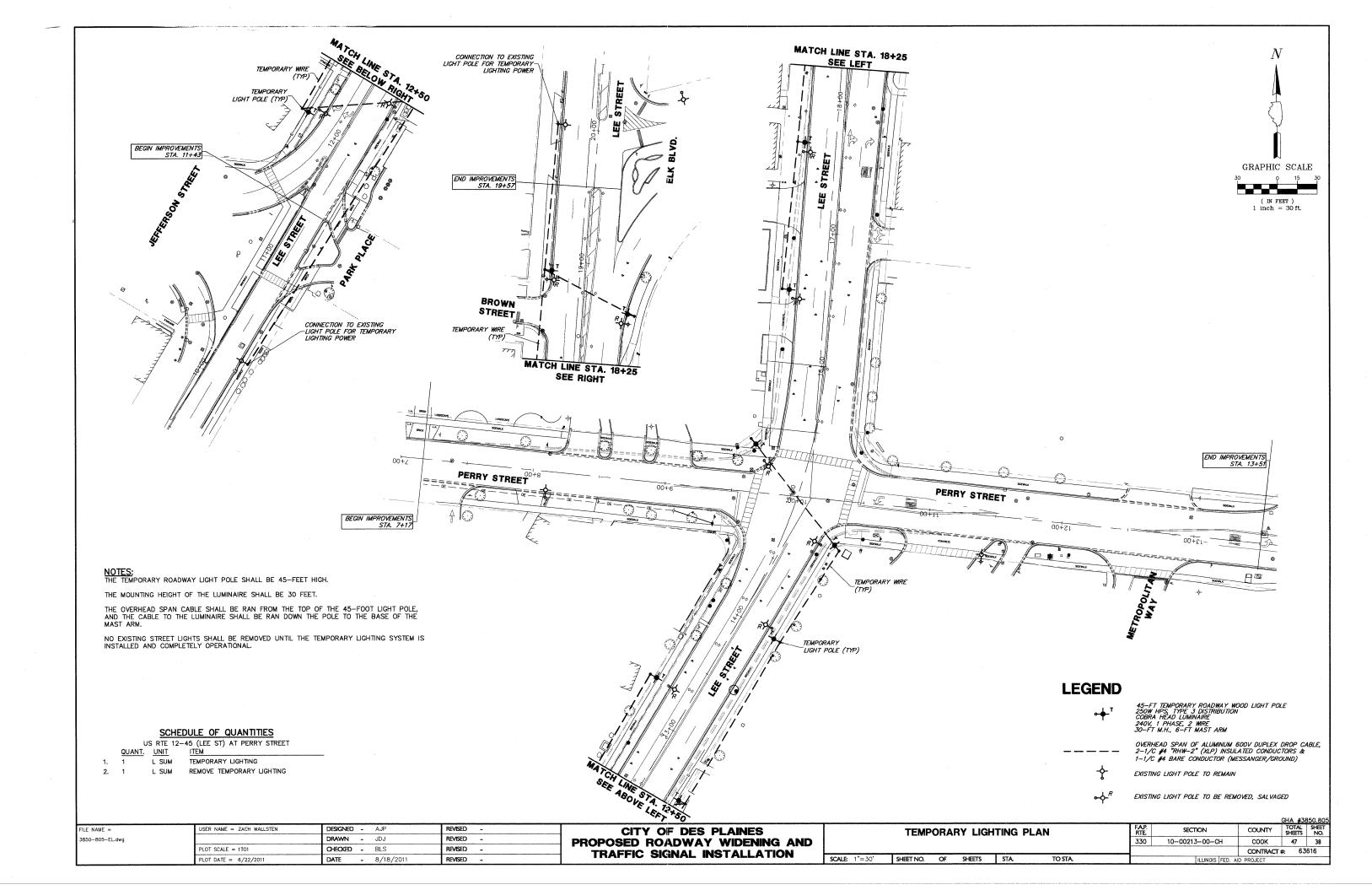
330

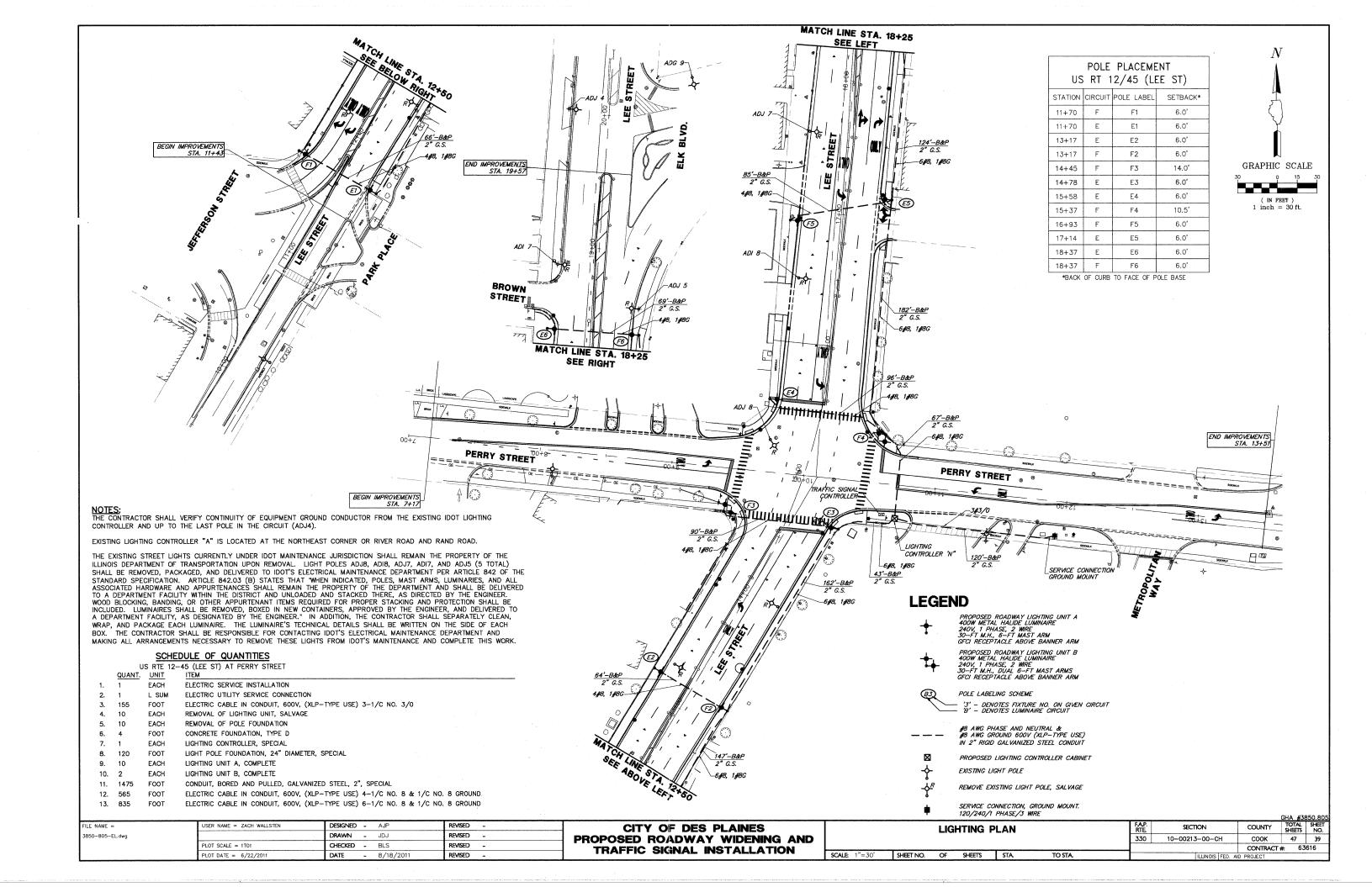
DISTRICT ONE

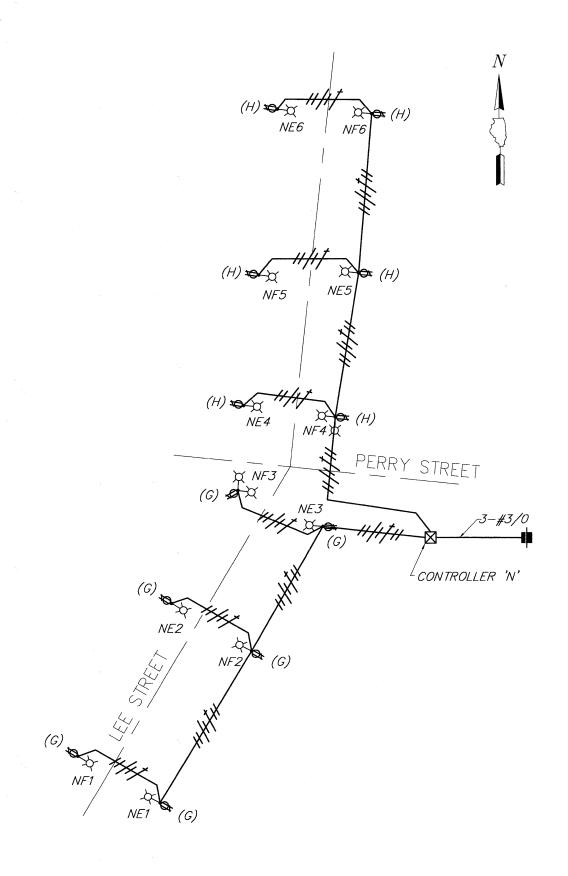
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

MAST ARM MOUNTED STREET NAME SIGNS

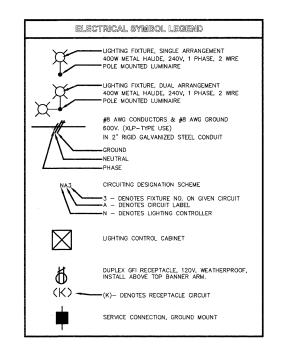
SCALE: NONE SHEET NO. OF SHEETS STA.







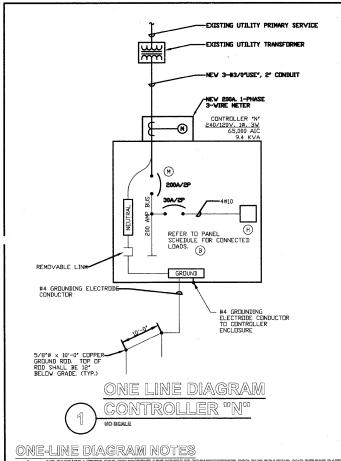
	LOAD TABULATION AND VOLTAGE DROP FOR LIGHTING CONTROLLER "N"											
CIRCUIT	VOLT AMPS	AMPS	HIGHEST VOLTAGE DROP ON CIRCUIT									
É LTG	2700	11.25 (@ 240\)	0.9% (E6)									
F LTG	3600	15 (@ 240V)	0.76% (F6)									
G RECEPTS	1080	9 (@ 120V)	2.5% (F1)									
H RECEPTS	1080	9 (@ 120V)	2.8% (F6)									
TOTAL	8460	44.25										



WIRING	DIAGRAM -	- CONTROLLER	$_{0}M_{0}$
NO SCALE			

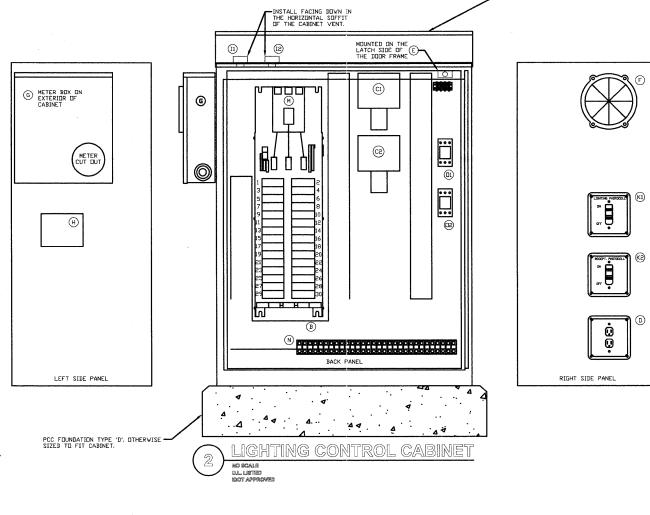
		-		
FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - AJP	REVISED -	CITY OF DES PLAINES
3850-805-EL.dwg		DRAWN - JDJ	REVISED -	PROPOSED ROADWAY WIDENING AND
	PLOT SCALE = 1TO1	CHECKED - BLS	REVISED	TRAFFIC SIGNAL INSTALLATION
	PLOT DATE = 6/22/2011	DATE = 8/18/2011	REVISED -	INAFFIC SIGNAL INSTALLATION

									GHA #38	850.805
		WIRI	NG DIA	GRAM	:	FAP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						330	10-00213-00-CH	соок	47	40
								CONTRACT	#: 63	616
SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		



- ALC RATINGS LISTED FOR EQUIPMENT ARE WINKING REQUIREMENTS FOR BUS BRACING AND DEVICE RATING. ALL EQUIPMENT SHALL BE FULLY RATED UNLESS SPECIFICALLY NOTED AS SERIES RATED.
- 2. ALL FUSES FROM 0 AMPERE TO 200 AMPERE SHALL BE DUAL ELEMENT, CLASS RK-5 UNLESS NOTED OTHERWISE.

		LL OF MATERIALS TING CONTROLLER "E3"							
ITEM #	QUANTITY	DESCRIPTION							
В	1	BRANCH CIRCUIT PANEL INTERIOR, 200A COPPER BUS, 240/20 VOLT, MOLDED CASE THERMAL MACAPITIC CIRCUIT BREAKERS, BOLT ON TYPE, AIC RATING OF 65,000 AMPS AT 240 VOLTS.							
C1 C2	2	MECHANICAL CONTACTOR, 8 POLE, 30 AMP, 120V COIL. PROVIDE WITH TWO—WIRE CONTROL FOR PHOTOCELL INTERFACE.							
D	1	GFI RECEPTACLE 120V, 20A, SPECIFICATION. GRADE, NEMA 5-20R IN WEATHER-PROOF BOX WITH FLAP-TYPE COVER.							
E	1	20A SPDT MICRO SWITCH (MOUNT WITH ACTUATOR TO SWITCH WHEN DOOR OPENED), 120 VOLT, 15 AMP CONTACTS.							
F	1	60 WATT LIGHT FIXTURE, VAPOR TIGHT WITH GLOBE AND GUARD AND MOUNTING BOX. LAMP PROVIDED WITH FIXTURE.							
G	1	METER FITTING, 1 PHASE, 3 WIRE, 100 AMP							
н	1	SURGE ARRESTOR, BRACKET MOUNTED, 120/240 VOLT SERMCE.							
l1 l2	2	PHOTOCELL, 120V, 1500 VA RATED, SINGLE POLE, SINGLE THROW CONTACT, WEATHERPROOF AND CORROSION PROOF ENCLOSURE. U.L. LISTED.							
J		CABINET ENCLOSURE PAD MOUNTED, STAINLESS STEEL, N.E.M.A. 4 CONSTRUCTION WITH KEY LOCKING DOOR. KEY CYLINDER SHALL MATCH EXISTING WILLAGE LIGHTING CONTROLLER LOCKS. 30°W. 48°H. 18°D.							
K1 K2	2	TOGGLE SWITCH, SPDT, 20 AMP, 240 VOLT, SPECIFICATION GRADE MOUNTED IN SURFACE BOX.							
М	1	MAIN CIRCUIT BREAKER, MOLDED CASE THERMAL MAGNETIC, SERVICE ENTRANCE DUTY RATED 240 VOLT, 100 AMP, 2 POLE, AIC RATING OF 65,000 AMPS AT 240 VOLTS. INTEGRAL TO BRANCH PANEL							
N	1	COPPER LOAD TERMINAL BLOCK FOR AWG#6 AND AWG#12							
01 02	2	FORM TYPE C RELAY. ELECTRICALLY HELD, ONE NORMALLY OPEN (N.O.) AND ONE NORMALLY CLOSED (N.C.) CONTACTS, 600V CONTINUOUS DUTY COIL, 30 AMP CONTACT RATING.							



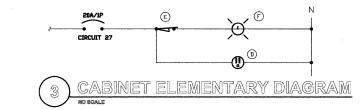
CONTROLLER NOTES:

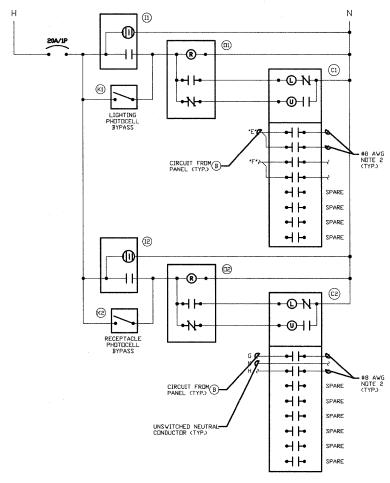
- THE CONTROLLER FOUNDATION SHALL HAVE TWO ADDITIONAL RACEWAYS INSTALLED FOR FUTURE USE.
- THE CONTROL CABINET SHALL BE U.L. LISTED UNDER U.L. 508A.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- THE ENCLOSURE SHALL BE VENTED. ONE INCH SCREENED VENT HOLES WILL BE PROVIDED IN THE OVER HANG.
- THE CABINET SHALL BE PROVIDED WITH A 3" X 12" STAINLESS NAMEPLATE, ENGRAVED TO READ "LIGHTING CONTROLLER."
- THE DOORS SHALL BE GASKETED PER SPECIFICATIONS. THE DOOR HANDLE SHALL BE % STAINLESS STEEL WITH KEY LOCK, AND HAVE A PROVISION FOR PADLOCKING
- THE MOUNTING PANEL SHALL BE 1/2 INCH ARBORON MATERIAL. EXPOSED BUS BARS SHALL BE INSULATED.
- CONNECTOR SCREWS SHALL BE PAINTED WHITE FOR THE NEUTRAL BUS AND GREEN FOR THE GROUNDING BUS.
- ALL MULTIPLE CONNECTIONS TO A SINGLE SOURCE WILL BE ACCOMPLISHED BY USE OF SPLICE BLOCKS OR MULTI CONNECTION LUGS.
- ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.
- ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.
- ALL DEVICES SHALL BE FRONT REMOVABLE.
- ALL WRING WITHIN THE CABINET SHALL BE COLOR CODED USING THE FOLLOWING ABBREVIATIONS: R RED Y YELLOW B BLACK W WHITE

BL - BLUE

ALL CONTROL CABINET ITEMS SHALL HAVE SUITABLE IDENTIFICATION. OPEN CIRCUIT BREAKERS, CONTACTORS AND OTHER OPEN DEVICES SHALL HAVE PERMANENT SELF STICKING TAGS. DEVICES IN ENCLOSURES SHALL HAVE ENGRAVED 2-COLOR LAMINATED PLASTIC NAMEPLATES ATTACHED TO ENCLOSURES WITH SCREWS. NAMEPLATES SHALL BE ENGRAVED TO CORRESPOND TO DESIGNATIONS ON THE DRAWINGS. ALL CONTROL WIRING SHALL BE STRANDED AND IDENTIFIED, AS INDICATED OR AS DIRECTED BY THE ENGINEER, BY MEANS OF BRADY MARKERS.

- A LAMINATED COPY OF THE CIRCUIT SCHEMATIC DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER.
- SEALING GROMMETS SHALL BE PROVIDED FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.





LIGHTING CONTROL ELEMENTARY DIAGRAM NO SCALE

NOTES:
1. ALL CABINET INTERIOR WIRING SHALL BE STRANDED COPPER #12 AWG THWN UNLESS NOTED OTHERWISE.

2. ROUTE TO STREET LIGHTING LUMINAIRES VIA TERMINAL BLOCK. (N)

		B PAR	iel n	ame:		COM	TR	DLLE			CONNECTED 9.4 KV	/A
	e: Bolt-on								96	iain:	290A NCB	
MOUNTIN	G: Surface - Interior only			SOLID	MEU	MRAL			WO	LTS:	240/120	
FED FRO	en: UTILITY			GROU	ND E	302			P64	ASE:	1	
NC RATIN	3: 85,960								₩	ARE:		
CKT		WIRE	TLOWD	BRIEAL	(IER	RREAL	SOED R	LOAD	WIRE		·	CKT
NO.	LOAD DESCRIPTION	SIZE	KWA	AMP	P	ADEP	P	AW20	SIZE		LOAD DESCRIPTION	NO.
1	"E" POLE LIGHTING	*8	3.8	30	2	20	1	0.0	*8	a@a	5 RECEPT.	2
3	"E" POLE LIGHTING		- 100	-	00	20	4	0.9	*8	as Mac	4 RECEPT.	6
8	"F" POLE LIGHTING	*8	3.6	30	2	20	1				SPARE	6
7	"F" POLE LIGHTING		-	-	on	20	1				SPARE	8
8	SURGE ARRESTOR	*0	0.1	30	2	20	4				SPARE	10
11	SURGE ARRESTOR			1000	***	20	1				SPARE	12
13	SPARE			30	2						8PACE	14
15	SPARE		- 00	-	-						SPACE	16
17	SPARE		I	30	2						SPACE	18
19	SPARE	-							I	I	SPACE	20
21	SPACE										SPACE	22
23	SPACE								T	T	SPACE	24
25	SPACE.										SPACE	26
27	LOT, RECEPT. IN CABINET	12	0.3	20	1						SPACE	28
28	LGT CONTROL	12	0.1	20	1						SPACE	30

			<u> </u>						GHA #385	0.805
FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - AJP	REVISED -	CITY OF DES PLAINES	LIGHTING CONTROLLER	FAP.	SECTION	COUNTY	TOTAL S	HEET
3850-805-EL.dwg		DRAWN - JDJ	REVISED -	PROPOSED ROADWAY WIDENING AND		330	10-00213-00-CH	соок	47	41
	PLOT SCALE = 1T01	CHECKED - BLS	REVISED -	TRAFFIC SIGNAL INSTALLATION				CONTRACT #	#: 6361	6
l	PLOT DATE = 6/22/2011	DATE - 8/18/2011	REVISED -	TRAFFIC SIGNAL INSTALLATION	SCALE N.T.S. SHEET NO. OF SHEETS STA. TO STA.	7-	ILLINOIS FED.	AID PROJECT		

GENERAL LIGHTING NOTES:

THE OWNER OF THE PROPOSED LIGHTING SYSTEM SHALL BE THE CITY OF DES PLAINES.

ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE, THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND ANY APPLICABLE LOCAL CODES. IF DISCREPANCIES EXIST THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER TO DETERMINE THE PROPER COURSE OF ACTION.

ALL PAY ITEMS REFER TO IDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE INSTALLATION OF ANY COMPONENTS OF THE LIGHTING SYSTEM. FOR THE LOCATIONS OF THE UTILITIES, CALL JULIE TOLL FREE AT 1-800-892-0123. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE EXISTING TRAFFIC SIGNAL CABLES AND CONDUITS.

CONDUIT SHALL BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREES, BUSHES, DRAINS AND OTHER UTILITIES.

CARE SHALL BE TAKEN NOT TO DAMAGE ANY OF THE EXISTING TRAFFIC SIGNAL CONDUITS, DETECTORS, AND EQUIPMENT. IF ANY OF THE TRAFFIC SIGNAL CONDUIT AND/OR EQUIPMENT IS DAMAGED, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE THE CONDUIT AND/OR EQUIPMENT AT NO COST TO THE COUNTY, STATE, OR VILLAGE.

ALL PROPOSED LIGHT POLES SHALL SATISFY IDOT'S MINIMUM SETBACK REQUIREMENTS.

THE CONTRACTOR SHALL MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES AND CONTROLLERS FOR VERIFICATION AND APPROVAL BY THE FINGINEER PRIOR TO STARTING WORK.

UNLESS OTHERWISE NOTED, ALL CONDUIT PROVIDED BY THIS CONTRACT SHALL BE 2" GALVANIZED STEEL CONDUIT CONFORMING TO SECTION 1088.01(a) OF IDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

NO MATERIALS SHALL BE DELIVERED TO THE JOB SITE UNTIL A STORAGE LOCATION AND ALL PERTINENT SUBMITTALS HAVE BEEN APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE RESIDENT ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATION HEIGHTS SHALL REMAIN WITH THE CONTRACTOR.

CONTRACTOR SHALL COORDINATE ALL SERVICE CONNECTIONS WITH THE LOCAL UTILITY COMPANY.

THE ELECTRICAL SUPPLY SHALL BE A PROPERLY GROUNDED AC SYSTEM

ALL FOUNDATIONS SHALL BE EQUIPPED WITH A GROUNDING ROD, AS SPECIFIED.

GROUNDING CONNECTIONS AT THE FOUNDATIONS SHALL BE EXOTHERMICALLY WELDED, AS SPECIFIED, AND SHALL BE INSPECTED AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO FRAMING LIGHT POLE.

THE GROUNDING CONDUCTOR SHALL BE INSULATED.

THE GROUNDING CONDUCTOR SHALL EXTEND CONTINUOUSLY WITH ALL CIRCUIT CONDUCTORS, IN THE SAME RACEWAY, AND SHALL BE BONDED TO THE SYSTEM GROUND AT THE SERVICE DISCONNECT.

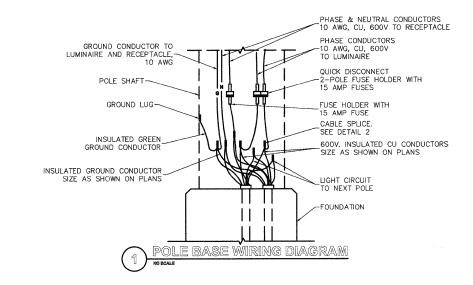
THE GROUNDING CONDUCTOR SHALL BE SPLICED AND BONDED AT EACH POLE.

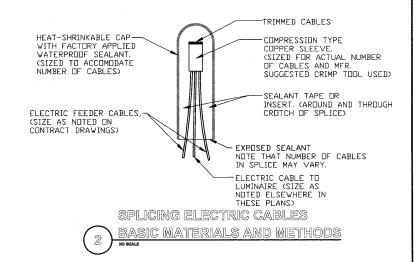
ALL CONDUCTORS AND EQUIPMENT SHALL HAVE PROPER OVERCURRENT PROTECTION. OVERCURRENT PROTECTION SHALL BE PROVIDED FOR EACH LUMINAIRE AND ITS ASSOCIATED BRANCH CIRCUIT THROUGH THE USE OF POLE BASE FUSING, OR OTHER MEANS AS APPROVED BY THE ENGINEER.

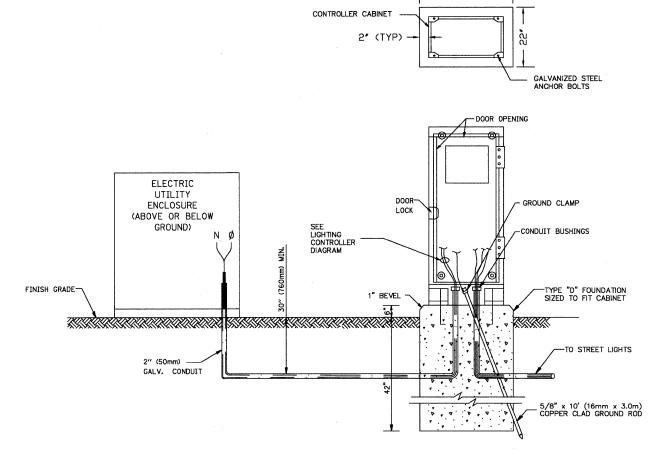
NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.

POLES WITH MAST ARMS SHALL NOT BE ERECTED AND LEFT TO STAND WITHOUT LUMINAIRES, AND THE PROPOSED LIGHT POLES WILL NOT BE CONSIDERED COMPLETE WITHOUT THE LUMINAIRES INSTALLED.

UPON COMPLETION OF THE PERMANENT LIGHTING SYSTEM, THE CONTRACTOR SHALL REQUEST IN WRITING A PREFINAL INSPECTION. A MINIMUM OF THREE DAYS NOTICE SHALL BE GIVEN TO THE CITY OF DES PLAINES. UPON COMPLETION OF INSPECTION AND APPROVAL OF WORK, THE CITY SHALL TAKE MAINTENANCE OF THE LIGHTING SYSTEM.









SCALE: N

, SERVICE INSTALLATION - GROUND MOUN

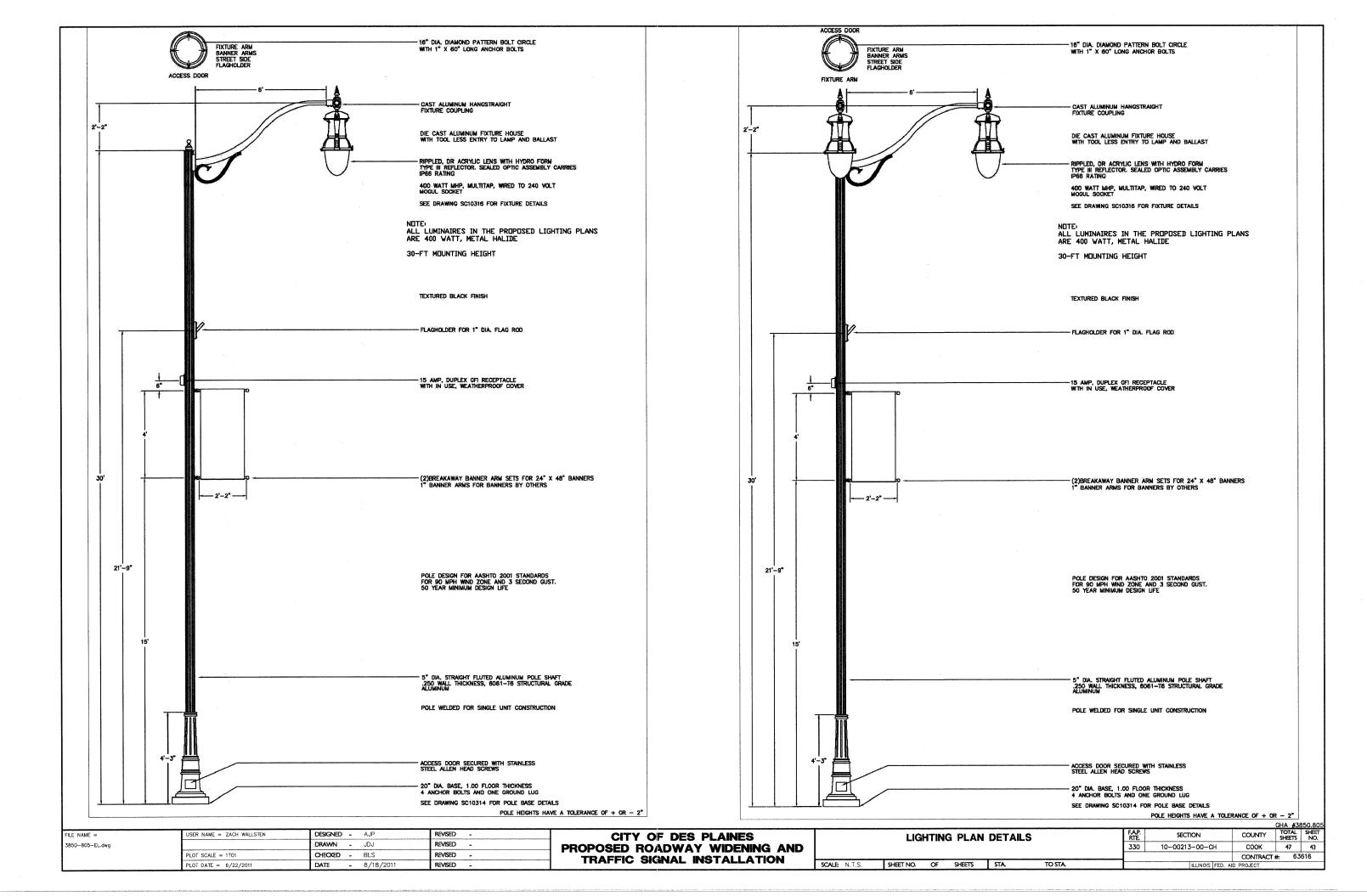
NO SCALE

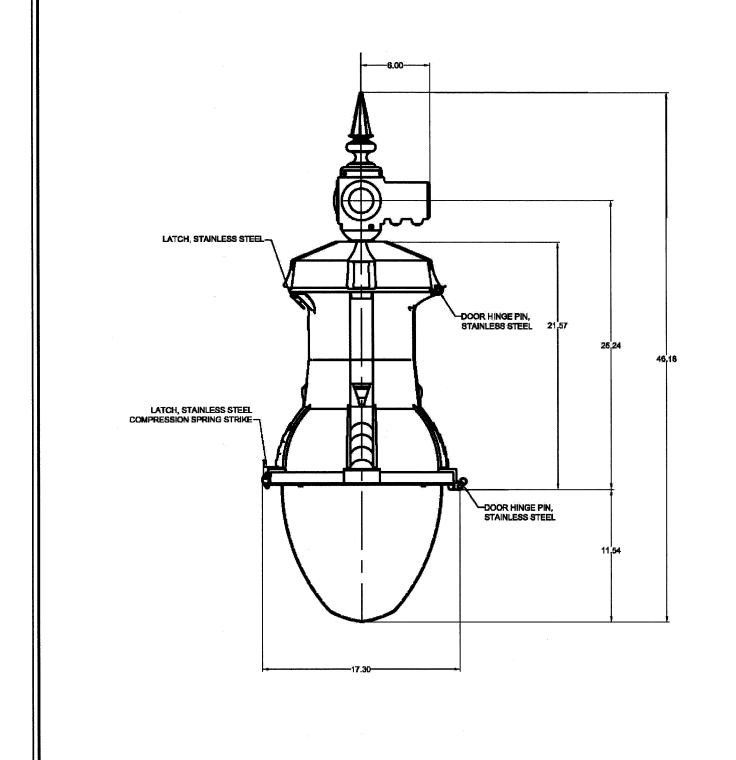
A 48"x48"x4"PCC VORK PAD SHALL BE PROVIDED IN FRONT OF CONTROLLER CABINET UNLESS CABINET IS
POSITIONED ADJACENT TO SIDEWALK.

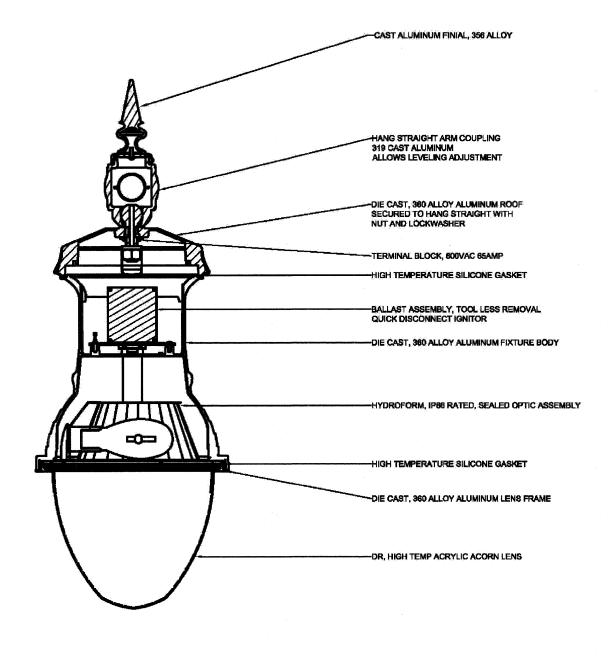
FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED	-	AJP	REVISED	-
3850-805-EL.dwg		DRAWN	-	JDJ	REVISED	-
	PLOT SCALE == 1TO1	CHECKED	_	BLS	REVISED	-
1	PLOT DATE - 6/22/2011	DATE	_	8 /18 /2011	REVISED	_

CITY	OF	DES	PLAINES	
PROPOSED	ROAL	YAWC	WIDENING	AND
TRAFFIC	SIGN	IAL IN	ISTALLATIO	NC

									GHA #38	350.805
	E	LEC	TRICAL	NOTES	i	FAP. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						330	10-00213-00-CH	COOK	47	42
								CONTRACT	#: 63	616
NTS	SHEET NO.	OF	SHEETS	STA.	TO STA.					







NOTE: ALL LUMINAIRES IN THE PROPOSED LIGHTING PLANS ARE 400 WATT, METAL HALIDE

> POLE HEIGHTS HAVE A TOLERANCE OF + OR - 2"

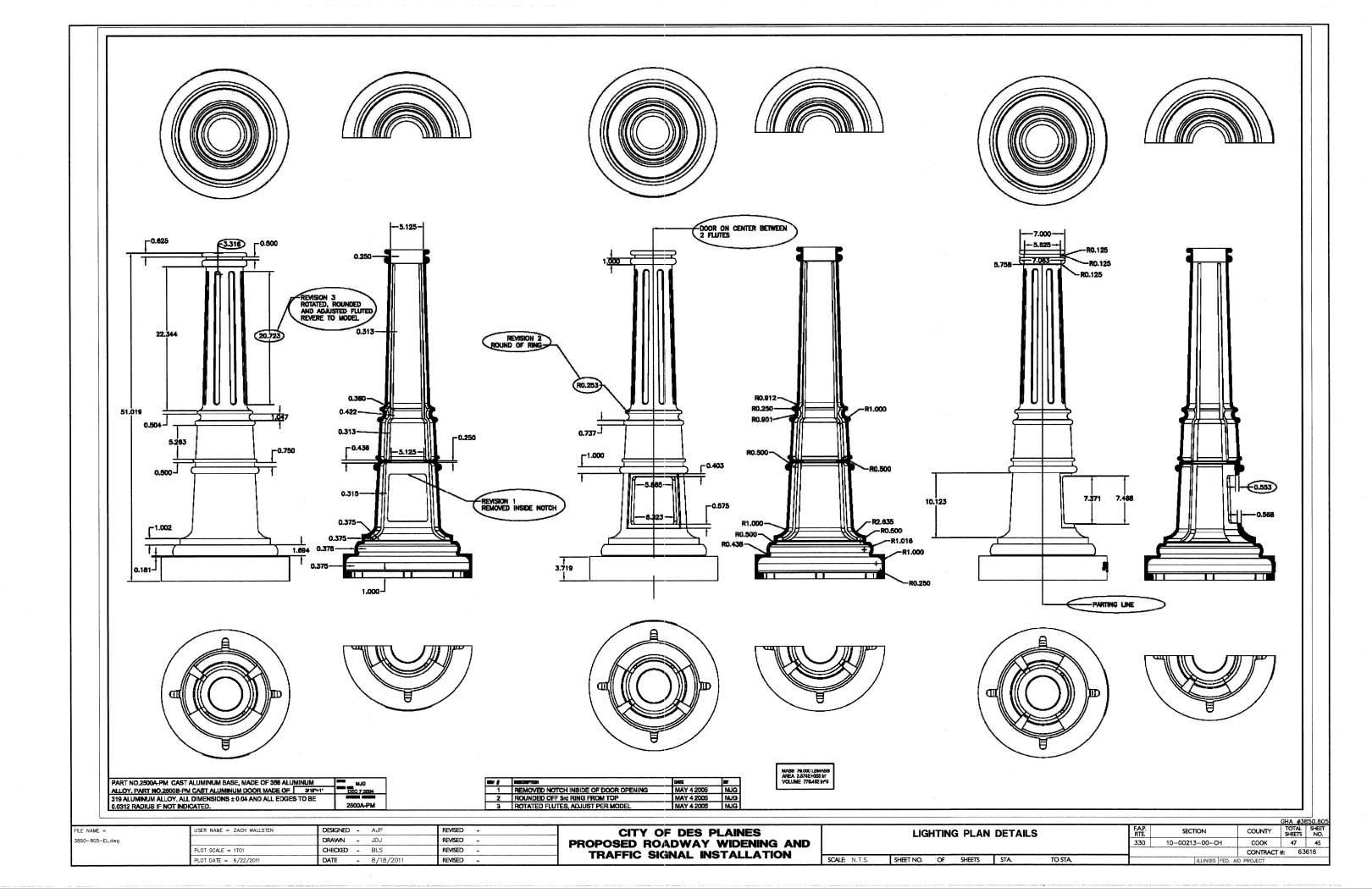
1/4/2010

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DRAWING NUMBER

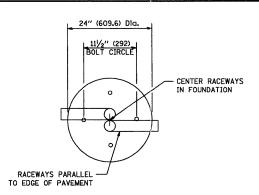
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FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED - AJP	REVISED -	CITY OF DES PLAINES	LIGHTING PLAN DETAILS			FAP. RTE	SEC	CTION	COUNTY	TOTAL SHEETS	SHEET NO.			
3850-805-EL.dwg		DRAWN - JDJ	REVISED -	PROPOSED ROADWAY WIDENING AND						330	10-002	213-00-CH	соок	47	44	
	PLOT SCALE = 1TO1	CHECKED - BLS	REVISED -	TRAFFIC SIGNAL INSTALLATION						******		CONTRACT #	#: 636	16		
	PLOT DATE = 6/22/2011	DATE - 8/18/2011	REVISED -	INAFFIC SIGNAL INSTALLATION	SCALE: N.T.S.	SHEET NO.	OF S	SHEETS	STA.	TO STA.			ILLINOIS FED. A	D PROJECT		



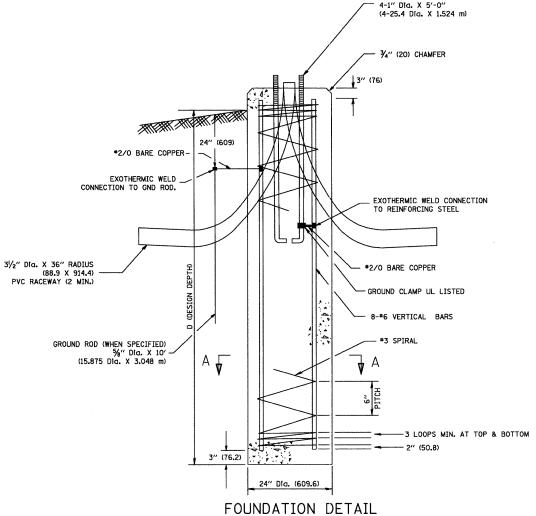
LIGHT POLE FOUNDATION DEPTH TABLE 30 FT. (9.144 m) TO 35 FT. (10.668 m) MOUNTING HEIGHT

CON CONDITIONS	DESIGN DEPTH "	D" OF FOUNDATION
SOIL CONDITIONS	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY	11'-0''	12'-8"
Qu = 0.375 TON/SQ. FT.	(3.35 m)	(3.85 m)
MEDIUM CLAY	9′-0′′	14'-10''
Qu = 0.75 TON/SQ.FT	(2.74 m)	(4.52 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-6'' (2.29 m)	8'-7" (2.61 m)
LOOSE SAND	9′-6″	10'-7"
Ø = 34°	(2 . 90 m)	(3.22 m)
MEDIUM SAND	9′-0′′	9'-10''
Ø = 37.5°	(2.74 m)	(2.99 m)
DENSE SAND	8′-3″	9'-7"
Ø = 40°	(2.51 m)	(2.91 m)



ANCHOR ROD

TOP VIEW



NOTES

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

REFER TO MANUFACTURE'S SPECIFICATIONS FOR

BOLT CIRCLE DIAMETER

- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4 IN. (100 mm) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE. THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL, A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 34-IN. (20 mm).
- 6. THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE, COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE
- 8. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- 9. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC
- 10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 23/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION, IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- 12. THE CONTRACTOR SHALL USE A *3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE *3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.

#3850.80 TOTAL SHEET SHEETS NO.

- 13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- 14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

TOP OF ANCHOR ROD 4" (100) MAX. GROUND LINE

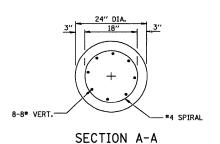
6" (152.4)

THREADED

5⁄6" T. X 4" DIA. WASHER, TACK WELDED

DIA. DIA.

ANCHOR BOLT DETAIL

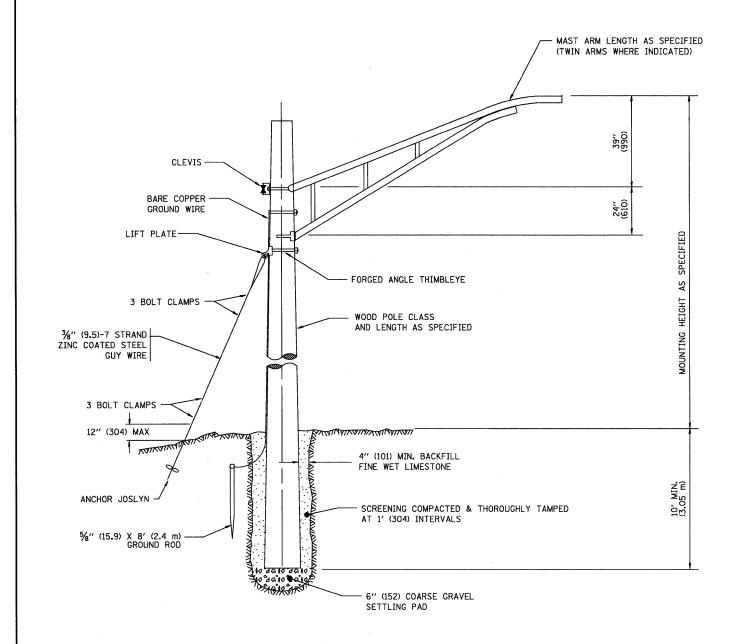


FOUNDATION EXTENSION DETAIL

USER NAME = ZACH WALLSTEN DESIGNED -REVISED FILE NAME = 3850-805-EL.dwg DRAWN -REVISED -PLOT SCALE = 1TO1 CHECKED -REVISED DATE PLOT DATE = 6/22/20

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

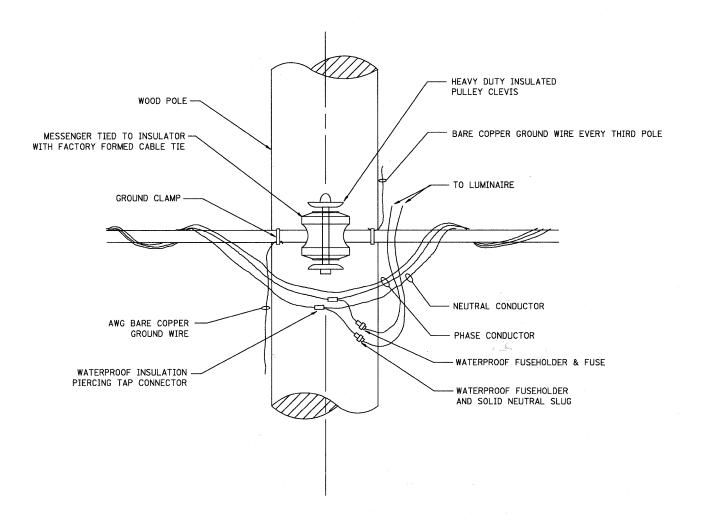
SECTION COUNTY LIGHT POLE FOUNDATION 10-00213-00-CH COOK 47 46 330 30' (9.144 m) TO 35' (10.668 m) M.H. 11 1/2" (292 mm) BOLT CIRCLE CONTRACT #: 63616 BE-300 SCALE: N.T.S. SHEET NO. OF SHEETS STA.



TEMPORARY LIGHT POLE DETAIL

NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED



TEMPORARY LIGHT POLE ATTACHMENT DETAIL

NOTES:

A GROUNDING ROD SHALL BE INSTALLED AT EVERY TEMPORARY LIGHT POLE.

THE TEMPORARY LIGHTING SYSTEM IS A SINGLE PHASE 3 WIRE SYSTEM.

THERE ARE 2 PHASE CONDUCTORS AND A MESSENGER/GROUND CONDUCTOR - NO NEUTRAL CONDUCTOR.

THE PHASE CONDUCTORS SHALL BE EQUIPED WITH TWO POLE WATERPROOF FUSEHOLDER WITH 15 AMP FUSES.

								GHA #3850.805
FILE NAME =	USER NAME = ZACH WALLSTEN	DESIGNED -	REVISED -		TEMPORARY LIGHTING PLAN DETAILS	FAP SECTION	COUNTY	TOTAL SHEET
3850-805-EL.dwg		DRAWN -	REVISED -	STATE OF ILLINOIS	ILMFORALI LIGHTING FLAN DETAILS	330 10-00213-00-CH	соок	47 47
	PLOT SCALE = 1T01	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		10 00210 00 011	CONTRACT	#: 63616
1	PLOT DATE = 6/22/2011	DATE -	REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. /	AID PROJECT	