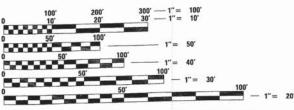
Section No.: 13-00082-00-SW Project No. M-4003 (189) CITY OF NORTHLAKE **COOK COUNTY** 

JOB NO.: C-91-270-13

INDEX OF SHEETS DESCRIPTION SHEET NO. COVER SHEET **GENERAL NOTES AND HIGHWAY STANDARDS** SUMMARY OF GUANTITIES TYPICAL SECTIONS ALIGNMENT, TIES AND BENCHMARKS REMOVAL PLAN PLAN AND PROFILE CONSTRUCTION DETAILS TRAFFIC SIGNAL MODIFICATION PLAN SCHEDULE OF QUANTITIES, CABLE PLAN PHASE DESIGNATION DIAGRAM AND EMERGENCY DISTRICT ONE - STANDARD TRAFFIC SIGNAL DESIGN DETAILS 12-17 DISTRICT ONE TYPICAL PAVEMENT MARKINGS 18 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, CROSS SECTIONS 20-23

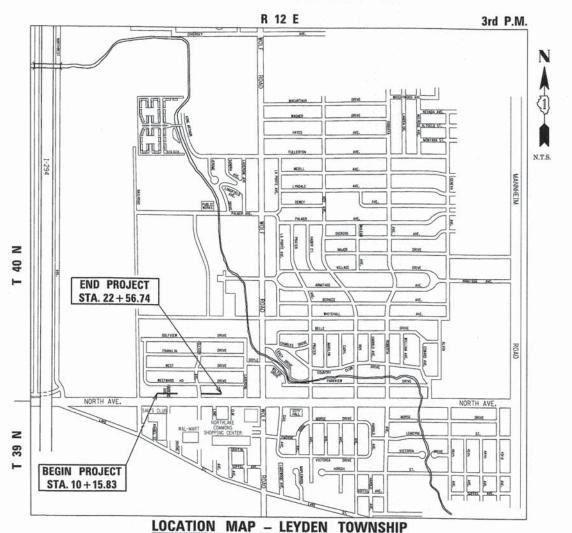
TRAFFIC DATA - FRONTAGE ROAD CLASSIFICATION - LOCAL ROAD ADT (2013) = 1000 SPEED LIMIT = 25 MPH



ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

CONTRACT NO. 63880



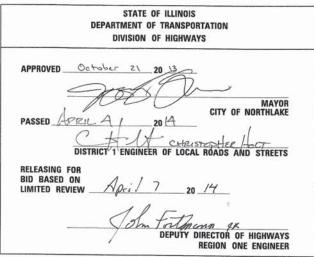
GROSS LENGTH OF PROJECT = 519 LINEAL FEET (0.10 ML)

NET LENGTH OF PROJECT = 519 LINEAL FEET (0.10 MI.)

COUNTY 13-00082-00-SW COOK

CONTRACT NO. 63880







October 16

EXPIRATION DATE: II/30/13

ANDREW M. PUFUNDT ILLINOIS REGISTRATION No. 062-061729

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

BURKE

ALL CONSTRUCTIONS, STANDARDS AND STECRAL FROVISIONS

SPECIFICATIONS, STANDARDS AND STECRAL FROVISIONS,

SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2012;

THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS",

ADOPTED JANUARY 1, 2014; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON

UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", (IMUTCD),

"THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN

ILLINOIS" JULY 2009 SIXTH EDITION, THE "DETAILS" IN THE PLANS AND THE

"SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LAWS AND GOVERNMENT AGENCY REGULATIONS AND RULES; AUTHORITIES HAVING JURISDICTION; OSHA REGULATIONS AND RULES; AND ANY APPLICABLE RULES AND REGULATIONS OF THE STATE OF ILLINOIS OR COOK COUNTY AGENCIES. FURTHERMORE, AND AS RELATED TO THE WORK, THE CONTRACTOR SHALL GIVE NOTICES AND COMPLY WITH APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ALL PUBLIC AUTHORITIES BEARING ON THE SAFETY OF PERSONS OR PROPERTY OR THEIR PROTECTION FROM DAMAGE, INJURY OR LOSS.

ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 700 OF THE STANDARD SPECIFICATIONS.

## UTILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING FACILITIES SO THAT THE UTILITIES AND THEIR APPURTENANCES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS.

THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM AND SANITARY SEWERS, WATER SERVICE LINES AND OTHER UTILITY LINES ARE APPROXIMATE, AND THE CITY DOES NOT GUARANTEE THEIR ACCURACY, THEIR EXACT HORIZONTAL AND VERTICAL LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AT HIS OWN

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE AT THE CONTRACTOR'S

COORDINATION OF ALL UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT THE PRECONSTRUCTION CONFERENCE.

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

### STAKING

m =

CHRISTOPHER 9575 West Higgins Road, S Rosemont, Illinois 60018 (847) 823-0500

e B

THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS UNTIL THE ENGINEER, HIS AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED

ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED, AND SHALL BE AS INDICATED ON THE PLANS, ELEVATIONS SHOWN AT POINT OF CURVE, ETC. IS EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

## WATER, STORM SEWER AND SANITARY SEWER

WHENEVER DURING CONSTRUCTION OPERATIONS ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE FROM DITA AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE COMPLETED PER ARTICLE 107.15 OF THE STANDARD

ANY EXISTING OR PROPOSED STORM SEWER DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.

THE CONTRACTOR SHALL NOT OPEN OR SHUT ANY WATER VALVES OR FIRE HYDRANTS WITHOUT PRIOR AUTHORIZATION FROM THE CITY WATER DEPARTMENT. UNAUTHORIZED USE SHALL SUBJECT THE OFFENDER TO ARREST AND PROSECUTION.

COST TO CONNECT EXISTING OR PROPOSED STORM SEWER TO EXISTING OR PROPOSED DRAINAGE STRUCTURE SHALL BE INCLUDED IN THE COST FOR STORM SEWER.

CONTRACTOR SHALL PROVIDE STRUCTURE LAYOUT INFORMATION TO THE ENGINEER PRIOR TO ORDERING ALL PROPOSED DRAINAGE STRUCTURES. THIS INFORMATION WILL BE DETERMINED IN THE FIELD WITH THE ENGINEER. COST TO DO THIS INVESTIGATIVE WORK SHALL BE INCLUDED IN THE COST FOR THE DRAINAGE STRUCTURE.

## **GENERAL NOTES**

### GENERAL NOTES

- THE CITY OF NORTHLAKE AND ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR IN WRITING AT LEAST (3) FULL WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTION FOR EXISTING UTILITIES IN CONFORMANCE WITH THE AFFECTED UTILITY COMPANIES' REQUIREMENTS AS MAY BE REQUIRED TO PERFORM THE WORK OF THIS CONTRACT.
- BEFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LINE AND GRADES SHOWN ON THE CONTRACT DRAWINGS. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY REPORT SAME TO THE ENGINEER PRIOR TO PERFORMING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORK AS REQUIRED.
- THE CONTRACT DOCUMENTS ARE NOT INTENDED TO SHOW EVERY AND ALL DETAILS OF WORK TO BE PERFORMED OR EQUIPMENT TO BE SUPPLIED. THE INTENT OF THE CONTRACT DOCUMENTS IS TO ILLUSTRATE THE CONCEPTUAL DESIGN AND LAYOUT. THE CONTRACTOR SHALL BE KNOWLEDGEABLE AND REGULARLY ENGAGED IN THE TYPE OF WORK DESCRIBED BY THESE CONTRACT DOCUMENTS, AND SHALL BE RESPONSIBLE FOR UNDERSTANDING THEIR INTENT. ADDITIONAL WORK TO BE PERFORMED OR ITEM OF EQUIPMENT TO BE SUPPLIED WHICH IS NOT SPECIFICALLY CALLED FOR BY THESE CONTRACT DOCUMENTS BUT WHICH IS NOT SPECIFICALLY CALLED FOR BY THESE CONTRACT DOCUMENTS BUT WHICH IS NECESSARY TO PROVIDE A COMPLETE AND SUCCESSFUL WORKING SYSTEM SHALL BE INCLUDED IN ACCORDANCE WITH ARTICLE 109.04.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRAISE HIMSELF/HERSELF OF ALL CONDITIONS. NO CLAIMS FOR ADDITIONAL COMPENSATION FOR INDIVIDUAL PAY ITEMS WILL BE RECOGNIZED DUE TO THE CONTRACTOR'S FAILURE TO UNDERSTAND THE SCOPE OF WORK.
- THE WORK PERFORMED UNDER THIS CONTRACT SHALL IN NO WAY INTERFERE WITH THE NORMAL OPERATION OF ANY EXISTING UTILITY SERVICE. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ITEMS OF EQUIPMENT REQUIRED TO MAINTAIN SUCH NORMAL OPERATION AT NO ADDITIONAL COST TO THE OWNER, THE COST ASSOCIATED FOR THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.
- CERTAIN INFORMATION SHOWN ON THESE DRAWINGS HAS BEEN OBTAINED FROM DRAWINGS OF RECORD. CONTRACTOR SHALL VERIFY SUCH INFORMATION PRIOR TO ACTUAL START OF WORK. WHERE DISCREPANCIES ARE DISCOVERED THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. FAILURE BY THE CONTRACTOR TO IMMEDIATELY NOTIFY THE ENGINEER OF SUCH DISCREPANCIES SHALL RESULT IN THE CONTRACTOR BEARING THE FULL BURDEN OF ALL RISKS/COSTS ATTRIBUTED TO THE DISCOVERED DESCREPANCY.
- SOIL EROSION PROTECTION SHALL BE IN ACCORDANCE WITH IEPA STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. ALL DISTURBED AREAS (NOT IMPERVIOUS IN NATURE) SHALL BE FINE GRADED, TOPSOIL RESTORED (MIN 4 INCHES) AND SEED/MULCH APPLIED UNLESS OTHERWISE SPECIFIED ON THE PLANS. 8.
- ALL REMOVAL OR EXCAVATION ITEMS BEING DISPOSED OF AT AN UNCONTAMINATED SOIL FILL OPERATION OR CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) FILL SITE SHALL MEET THE REQUIREMENTS OF PUBLIC ACT 96-1416. ALL COSTS ASSOCIATED WITH MEETING THESE REQUIREMENTS SHALL BE INCLUDED IN THE UNIT PRICE COST FOR THE ASSOCIATED REMOVAL OR EXCAVATION ITEMS IN THE CONTRACT. THESE COSTS SHALL INCLUDE, BUT ARE NOT LIMITED TO, COMPLETING THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FORM LPC 663, ALL REQUIRED TESTING, LAB ANALYSIS, CERTIFICATION BY A LICENSED PROFESSIONAL ENGINEER, AND STATE OR LOCAL TIPPING FEES.

## MISCELLANEOUS

ACCESS: THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT, EXCEPT FOR PERIODS OF SHORT DURATION. THE COST TO PROVIDE ACCESS SHALL BE PAID FOR AND INCLUDED IN THE PAY ITEM TEMPORARY ACCESS (PRIVATE ENTRANCE).

DIMENSIONS: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.

ALL SAWCUTTING SHALL BE INCLUDED TO REMOVAL ITEMS AND SHALL BE PERFORMED PRIOR TO BEGINNING REMOVAL. ANY ITEMS OF WORK REMOVED PRIOR TO SAWCUTTING WILL NOT BE MEASURED FOR PAYMENT.

DETECTABLE WARNINGS FOR THE DISABLED SHALL BE INSTALLED AT INTERSECTING STREETS, COMMERCIAL DRIVEWAYS, AND ALLEYS AS SHOWN ON THE PLANS (SEE IDOT STD. 424201).

RELOCATING EXISTING SIGNS: EXISTING SIGNS WHICH ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS SHALL BE REMOVED AND REINSTALLED UPON COMPLETION OF CONFLICTING IMPROVEMENTS IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". STOP SIGNS, SPEED LIMIT SIGNS, AND STREET NAME SIGNS SHALL BE UP AND VISIBLE AT ALL TIMES. THIS WORK SHALL BE PERFORMED PER ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.

PER ARTICLE 107.20, MAILBOXES WHICH ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS SHALL BE REMOVED, TEMPORARILY RELOCATED, AND REPLACED UPON COMPLETION OF THE PROPOSED IMPROVEMENTS AS DIRECTED BY THE ENGINEER.

PROPOSED CONCRETE CURB AND GUTTER SHALL BE TRANSITIONED TO EXISTING CURB AND GUTTER OVER A LENGTH OF 5 FEET. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT

THE HMA SURFACE COURSE USED TO REPLACE DRIVEWAYS WILL BE PAID FOR PER TON.

PROTECTIVE COAT FOR ALL CONCRETE SURFACES SHALL BE CONSIDERED INCLUDED IN THE COST OF THE RESPECTIVE PAY ITEM.

ANY DEFACED WORK SHALL BE CORRECTED OR REPLACED BY THE CONTRACTOR AT HIS SOLE EXPENSE PRIOR TO FINAL PAYMENT. THE CITY WILL COOPERATE WITH THE CONTRACTOR TO MINIMIZE VANDALISM, BUT THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE TO CORRECT ANY DAMAGE PER CONDITIONS OF ARTICLE 107.30 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION / DIRECTION AND MEANS / METHODS OF CONSTRUCTION.

FOR QUANTIFYING PURPOSES, EXISTING AGGREGATE SHOULDER TO BE REMOVED IS ASSUMED TO BE  $8^{\prime\prime}$  IN DEPTH. EXACT DEPTH SHALL BE VERIFIED IN FIELD BY THE CONTRACTOR.

HIGHWAY STA	NDARDS
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
424001-07	PERPENDICULAR CURB RAMPS FOR SIDEWALK
602011-02	CATCH BASIN TYPE C
604036-02	GRATE TYPE 8
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15'(4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-06	URBAN LANE CLOSURE, 2L, 2W UNDIVIDED
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-03	TRAFFIC CONTROL DEVICES
780001-04	TYPICAL PAVEMENT MARKINGS
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
B. L. R. 17-4	TRAFFIC CONTROL DEVICES - DAY LABOR CONSTRUCTION
B. L. R. 18-5	TRAFFIC CONTROL DEVICES - DAY LABOR MAINTENANCE

FILE NAME = DESIGNED -AMP REVISED -DRAWN - FPB 320C125.SHT REVISED -PLOT SCALE = 1' CHECKED - MEW REVISED . DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SCALE:

GENERAL NOTES AND HIGHWAY STANDARDS 307 13-00082-00-SW SHEET NO. OF SHEETS STA. TO STA.

COOK

FED. ROAD DIST. NO.

CONTRACT NO. 63880

## **SUMMARY OF QUANTITIES**

	LOCATION OF WORK			FRONTAGE RC 80% FED.	
	FUNDING SOURCE			20% LOCAL STP	
	SUMMARY OF QUANTITIES		TOTAL	CONSTRUCTION TYPE CODE	CONSTRUCTIO TYPE CODE
CODE NO.	ITEM	UNIT	QUANTITY	ROADWAY 0021	SAFETY 002
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	35	35	0
20101200	TREE ROOT PRUNING	EACH	2	2	0
20800150	TRENCH BACKFILL	CUYD	10	10	0
21101615	TOPSOIL, FURNISH AND PLACE 4"	SQYD	900	900	0
25000100	SEEDING, CLASS 1	ACRE	0.25	0.25	0
25100125	MULCH, METHOD 3	ACRE	0.25	0.25	0
	INLET FILTERS	EACH	11	11	0
	SUB-BASE GRANULAR MATERIAL, TYPE B				
		CU YD	30	30	0
	HOT-MIX ASPHALT BASE COURSE, 2 1/4"	SQYD	75	75	0
	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	25	25	0
42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	15	15	0
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2700	2700	0
42400400	PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH	SQ FT	225	225	0
42400800	DETECTABLE WARNINGS	SQ FT	70	70	0
44000200	DRIVEWAY PAVEMENT REMOVAL	SQYD	125	125	0
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	55	55	0
44000600	SIDEWALK REMOVAL	SQ FT	600	600	0
44201297	DOWEL BARS 1"	EACH	250	250	0
550A0040	STORM SEWERS, CLASS A, TYPE 1, 10"	FOOT	110	110	0
55100300	STORM SEWER REMOVAL 8"	FOOT	12	12	0
	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	1			
		EACH	1	1	0
	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	2	2	0
	VALVE BOXES TO BE ADJUSTED	EACH	1	1	0
60500050	REMOVING CATCH BASINS	EACH	1	1	0
67100100	MOBILIZATION	L SUM	1	1	0
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	1	0
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	0
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	0
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	90	90	0
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	11	11	0
78300100	PAVEMENT MARKING REMOVAL	SQ FT	25	25	0
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	0	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	151	0	151
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	165	0	165
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2	0	2
	PEDESTRIAN PUSH-BUTTON	EACH	2	0	2
	MODIFY EXISTING CONTROLLER CABINET				
		EACH	1	0	11
9	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	4	4	0
	AGGREGATE SHOULDER REMOVAL	CUYD	50	50	0
	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL)	FOOT	390	390	0
20013798	CONSTRUCTION LAYOUT	L SUM	1	1	0
70018400	DRAINAGE STRUCTURES TO BE ADJUSTED	EACH	4	4	0 .

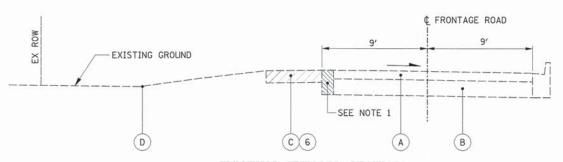
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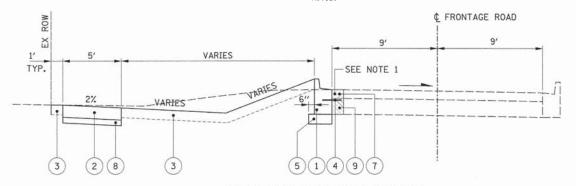
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DEPARTMENT OF TRANSPORTATION

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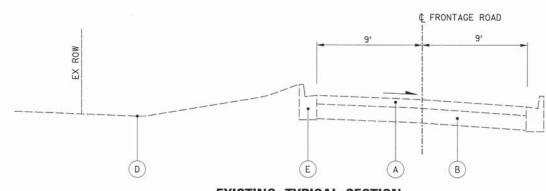


# STA. 10 + 15.83 TO STA. 13 + 24.00, NORTH AVENUE FRONTAGE ROAD

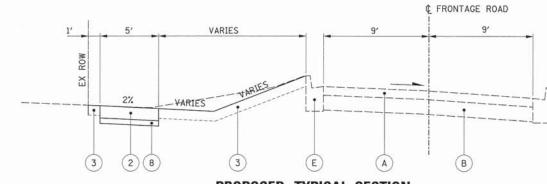


STA. 10 + 15.83 TO STA. 13 + 24.00, NORTH AVENUE FRONTAGE ROAD

N.T.S.



# STA. 20 + 46.26 TO STA. 22 + 56.74, NORTH AVENUE FRONTAGE ROAD



PROPOSED TYPICAL SECTION

STA. 20 + 46.26 TO STA. 22 + 56.74, NORTH AVENUE FRONTAGE ROAD

N.T.S.

## LEGEND:

- (A) EXISTING ASPHALT PAVEMENT, 2 1/4"
- B) EXISTING CONCRETE BASE, 10"
- C EXISTING AGGREGATE SHOULDER
- (D) EXISTING TURF
- (E) EXISTING CONCRETE CURB & GUTTER
- 1) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 (REVERSE PITCH)
- 2 P.C.C. SIDEWALK, 5 INCH
- 3 TOPSOIL, FURNISH AND PLACE, 4" SEEDING, CLASS 1 MULCH, METHOD 3
- 4 DOWEL BARS, 1" (18" SPACING)
- (5) SUBBASE GRANULAR MATERIAL, TYPE B, 4"
- 6 AGGREGATE SHOULDER REMOVAL
- 7 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 2"
- 8) SUBBASE GRANULAR MATERIAL, TYPE B 2"
- 9 CLASS SI CONCRETE

## NOTE:

I. ANY PAVEMENT REMOVAL REQUIRED FOR CONSTRUCTION
OF COMBINATION CONCRETE CURB AND GUTTER SHALL BE
REPLACED WITH P.C.C. (CLASS SI) AND SHALL BE VIBRATED
IN PLACE. COST FOR PAVEMENT REMOVAL AND P.C.C (CLASS SI)
SHALL BE INCLUDED IN UNIT PRICE FOR COMBINATION CONCRETE
CURB AND GUTTER TYPE B-6.12 (SPECIAL). REPLACEMENT
OF HOT-MIX ASPHALT SURFACE COURSE TO BE PAID FOR
SEPERATELY.

HOT-MIX ASPHALT MIXTURE REQUIREMENT	S	QUALITY MANAGEMENT
MIXTURE ITEM	AIR VOIDS @ Ndes	PROGRAM (QMP)
HOT-MIX ASPHALT DRIVEWAYS		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 MM)	4% @ 50 GYR	QC/QA
HOT-MIX ASPHALT BASE COURSE	4% № 50 GYR	QC/QA
PAVEMENT RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 MM)	4% @ 50 GYR	QC/QA

## NOTES:

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

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

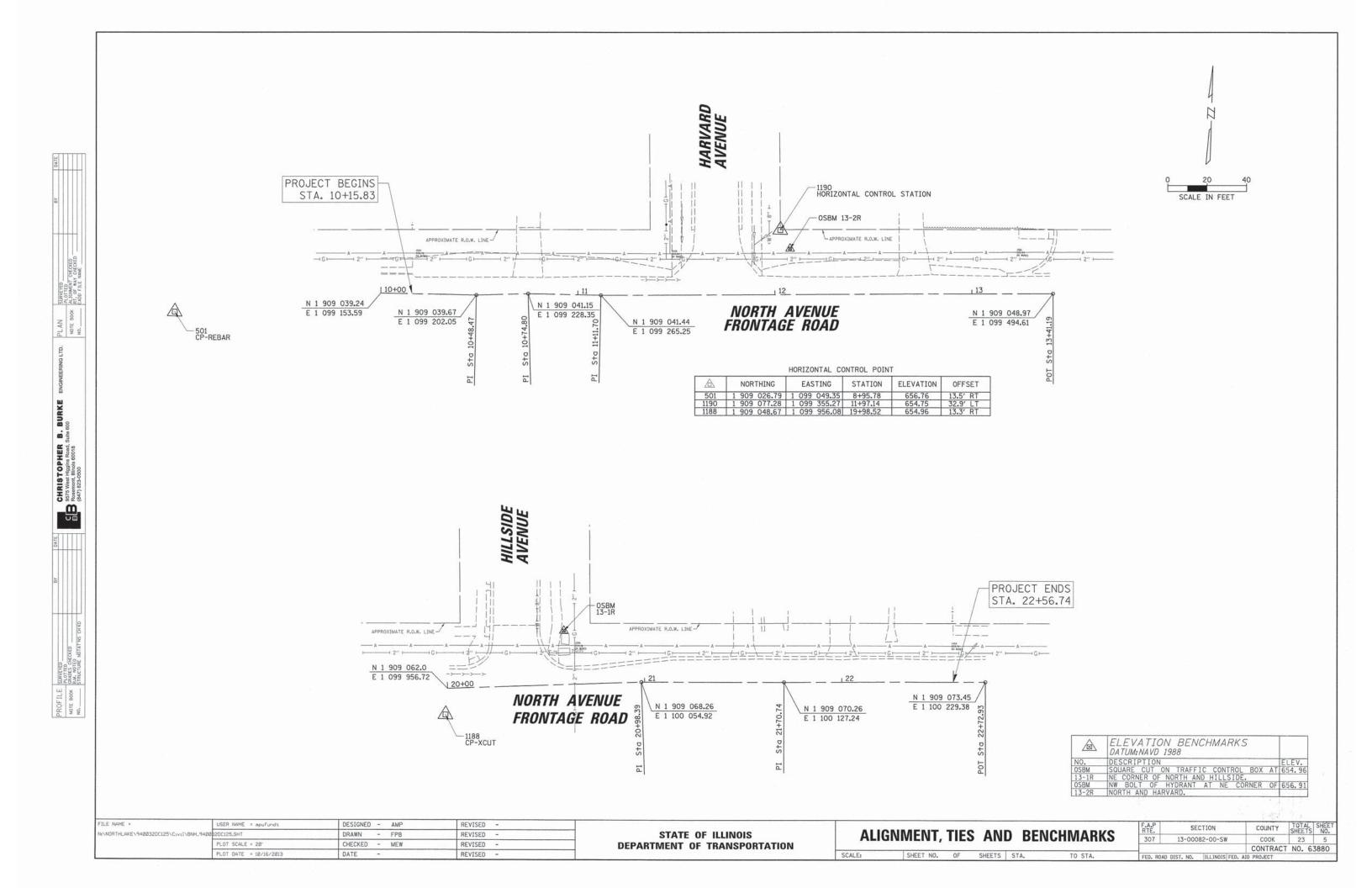
FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

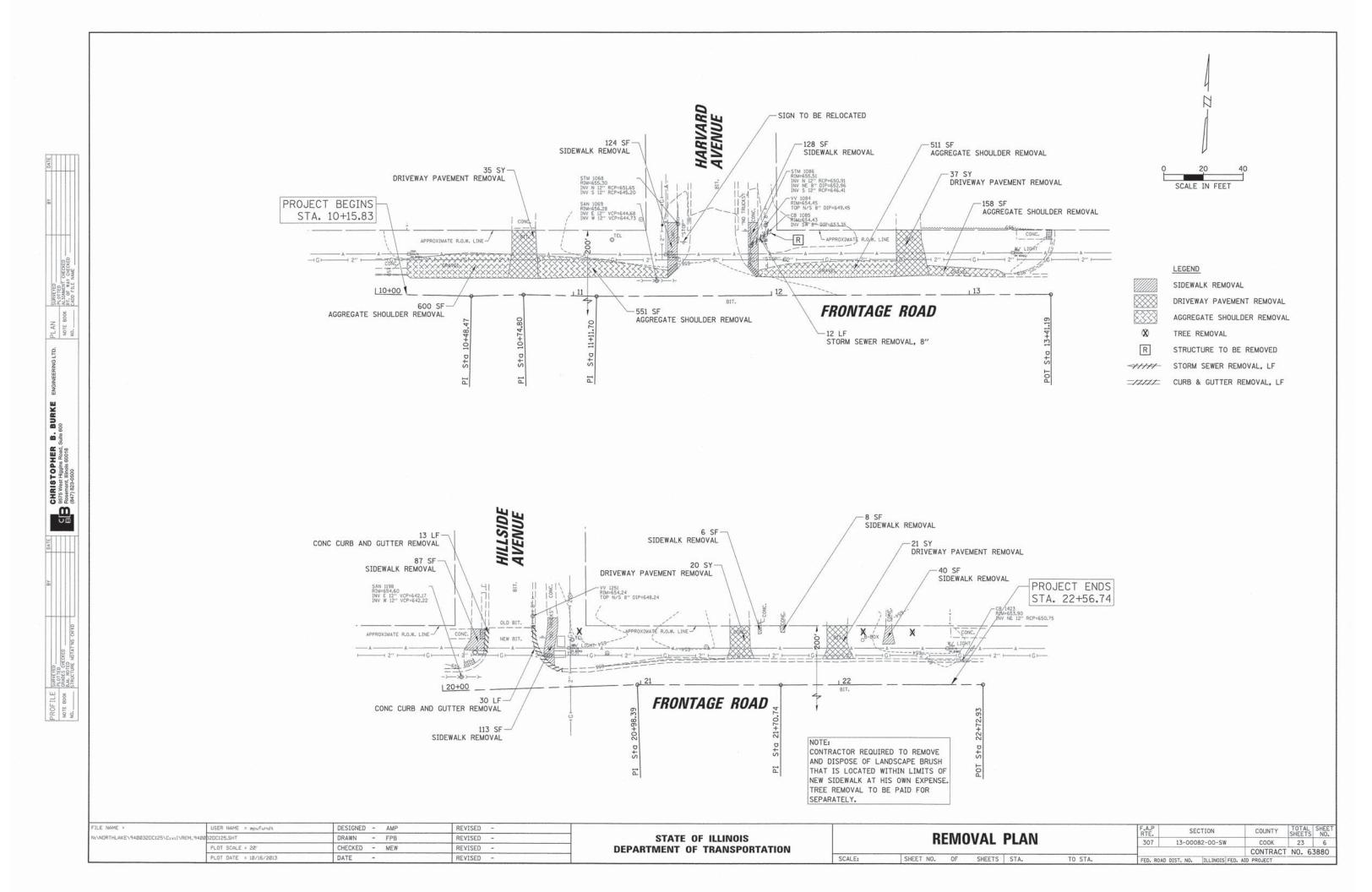
QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

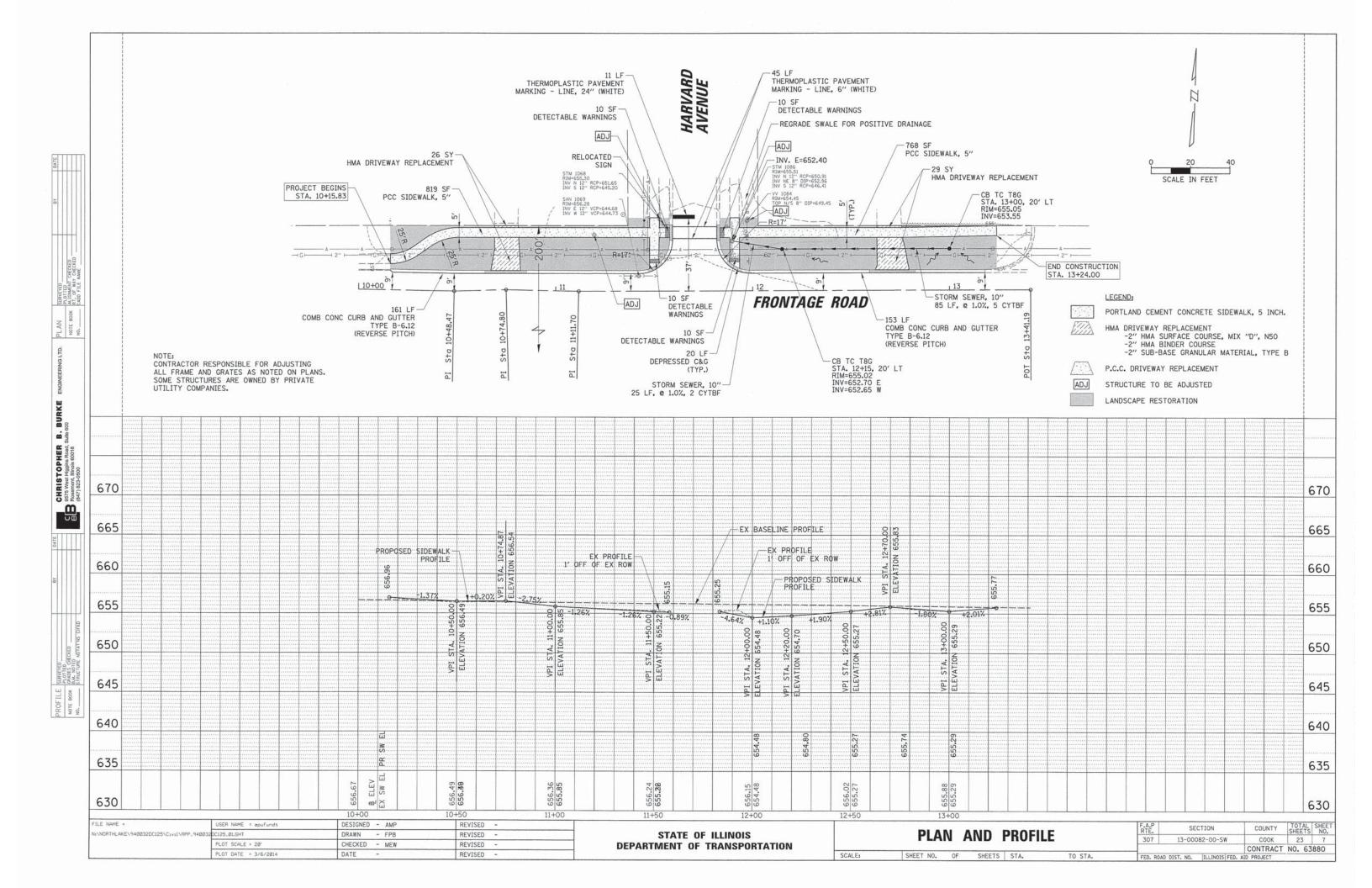
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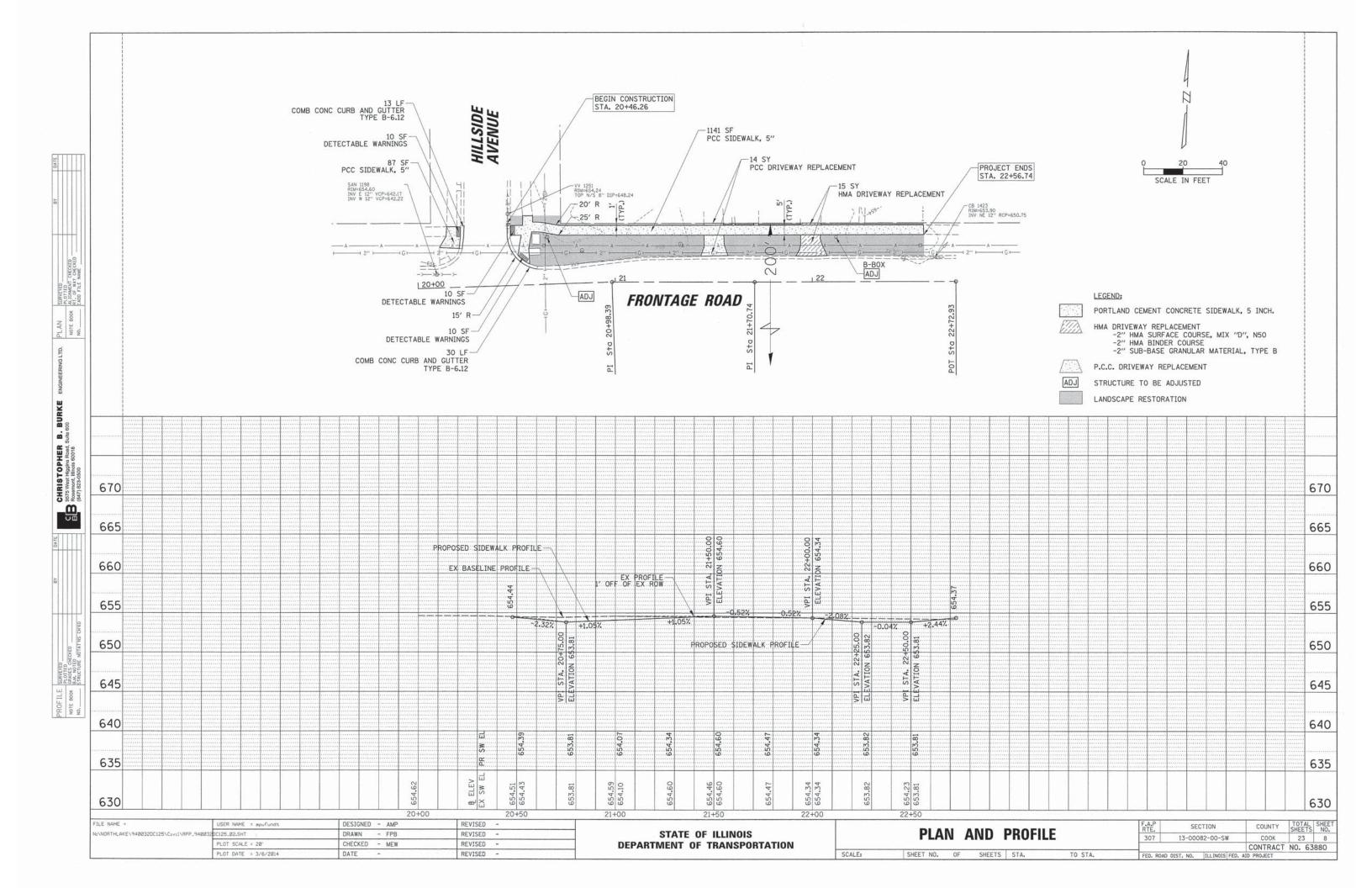
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

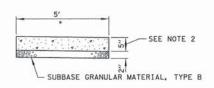
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		IYPIC	CAL SEC	110M2		307	13-0008	2-00-SW	COOK	23	4
									CONTRACT	NO. 6	3880
SCALE:	SHEET N	NO. OF	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO.	ILLINOIS FED. A	AID PROJECT		









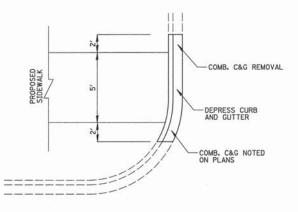


CROSS SLOPE 2% OR AS SHOWN

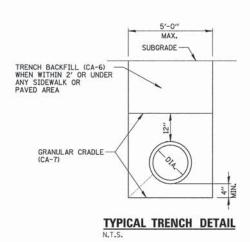
## NOTES:

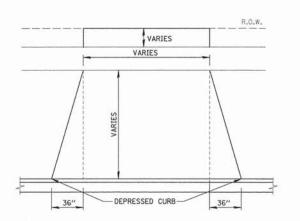
- ALL REQUIRED EARTH EXCAVATION TO CONSTRUCT P.C.C. SIDEWALK TO MEET CURRENT ADA REQUIREMENTS AND AS SHOWN ON CROSS SECTIONS SHALL BE INCLUDED IN THE COST FOR P.C.C. SIDEWALK.
- 2. WHEN FORMS ARE REMOVED FROM THE SIDEWALK THE SIDEWALK SHALL BE EITHER BARRICADED OR BACKFILLED WITHIN 24 HOURS.

## P.C.C. SIDEWALK DETAIL



PROPOSED DEPRESSED CURB & GUTTER EXISTING CURB & GUTTER NOT DEPRESSED NOT TO SCALE





## DETAIL OF DRIVEWAY

THIS TYPICAL DRIVEWAY LAYOUT IS FOR BOTH CONCRETE AND ASPHALT DRIVES

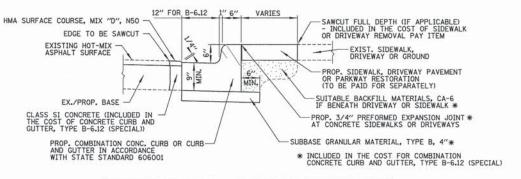
P.C.C. DRIVE - 7" P.C.C. DRIVEWAY PAVEMENT 2" SUB-BASE GRANULAR MATERIAL, TYPE B

ASPHALT DRIVE - 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D". N50 2\frac{2}{4}" HOT-MIX ASPHALT BASE COURSE 2" SUB-BASE GRANULAR MATERIAL, TYPE B

## NOTES

1. PROPOSED SIDEWALK THROUGH DRIVEWAY SHALL BE 7 INCHES OF PORTLAND CEMENT CONCRETE ON 2 INCH SUB-BASE GRANULAR MATERIAL, TYPE B.

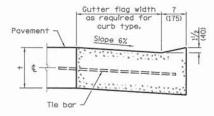
2. THE HMA SURFACE COURSE USED TO REPLACE DRIVEWAYS WILL BE PAID FOR PER TON. THE NUMBER OF DRIVEWAYS TO BE REPLACED WILL I DETERMINED IN THE FIELD BY THE ENGINEER.



ALL REQUIRED EARTH EXCAVATION AND SUITABLE BACKFILL TO CONSTRUCT COMBINATION CONCRETE CURB AND GUTTER WILL BE INCLUDED IN THE COST FOR COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL)

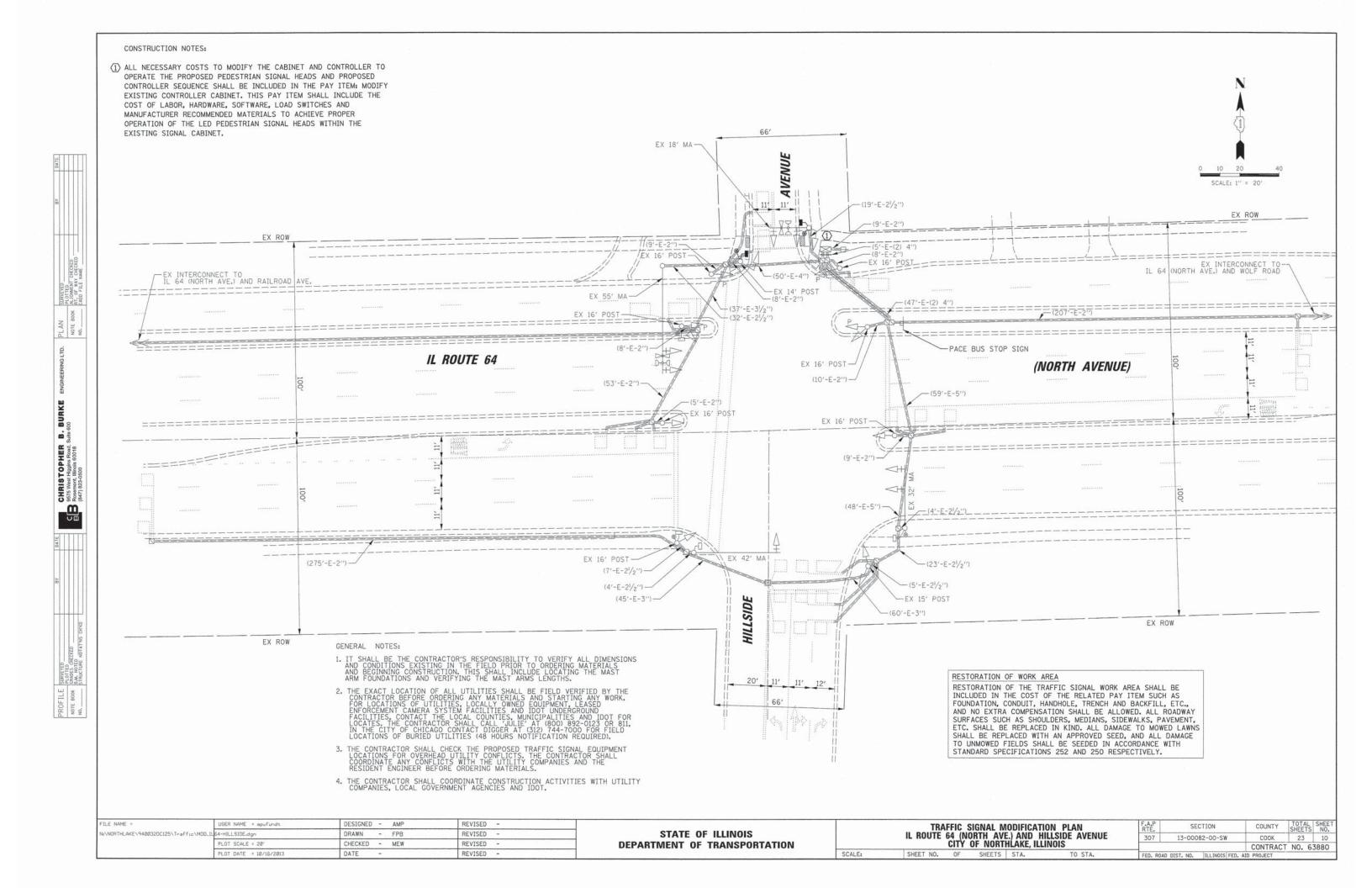
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL)

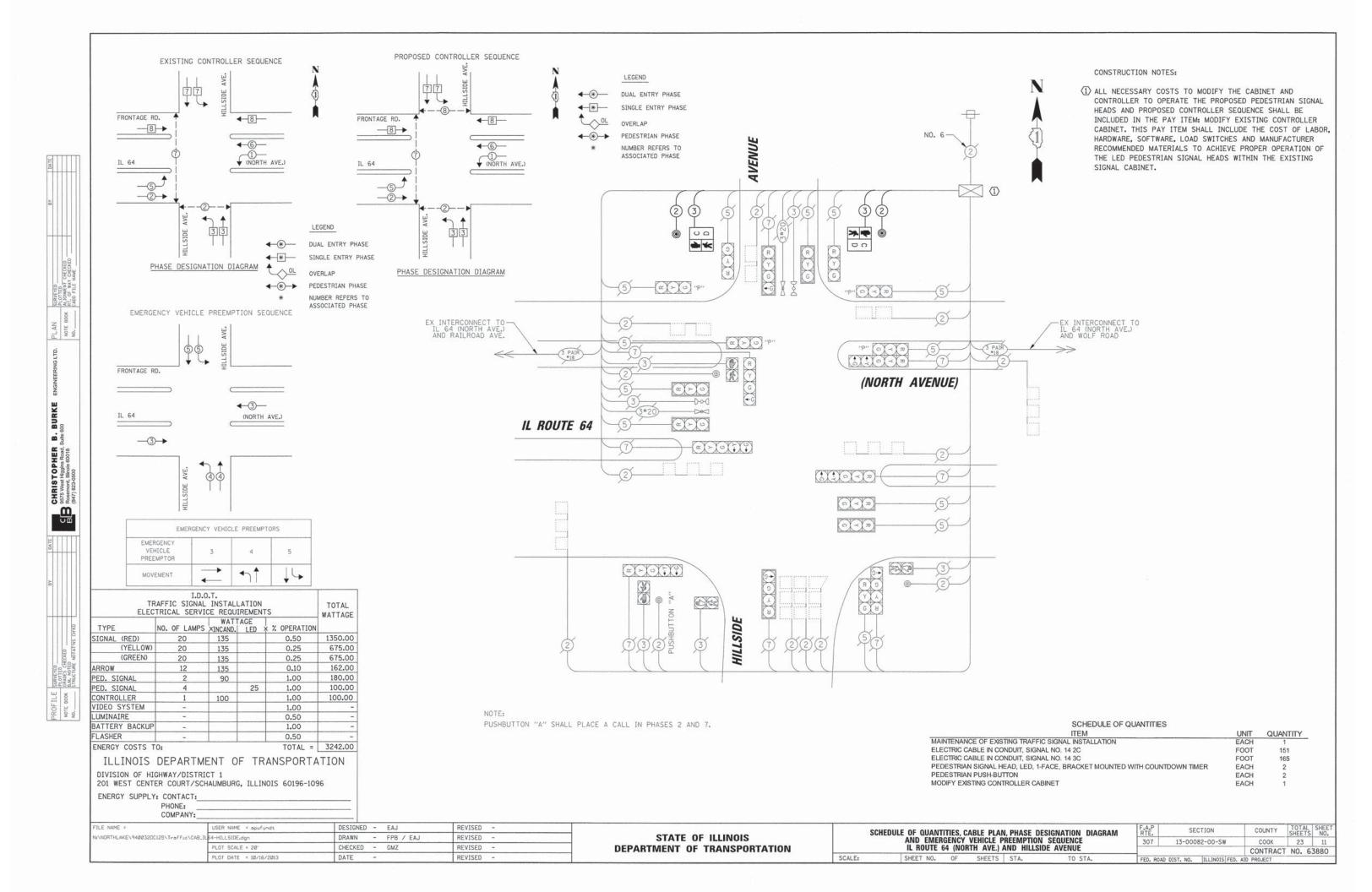
NOT TO SCALE



DEPRESSED CURB (TYPICAL)

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	PLOT SCALE = 20'	CHECKED - MEW	REVISED -	DEPARTMENT OF TRANSPORTATION							301	13-00082-00-SW	CONTRAC	T NO 63	880
	PLOT DATE = 10/16/2013	DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROA	D DIST. NO.   ILLINOIS FED.	AID PROJECT	1 140. 6.	880

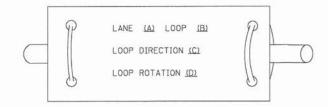




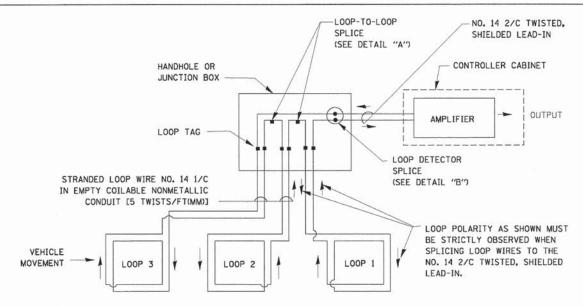
## LOOP DETECTOR NOTES

- 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

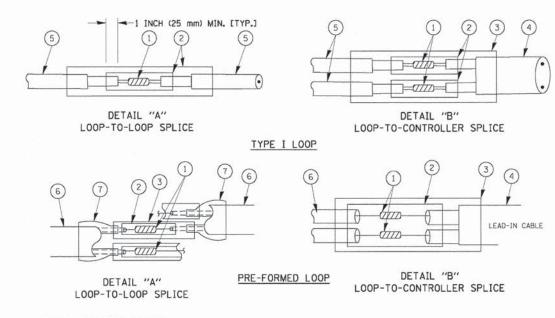


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



## 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

- $\begin{tabular}{llll} \hline \end{tabular}$  WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- (6) PRE-FORMED LOOP
- TL POLYOLEFIN 2 CONDUCTOR
  BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

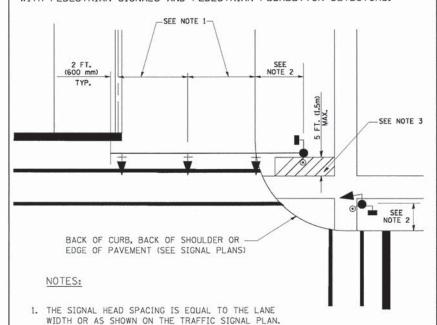
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STATE	E 01	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

		DI	STRICT OF	NE		F.A RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
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SCALE: NONE	SHEET NO. 1	OF 6	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. 1   ILLINOIS FED.	and the same that the same to		

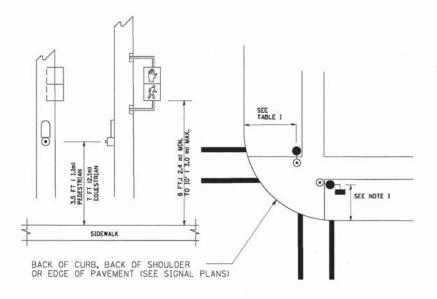
## TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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



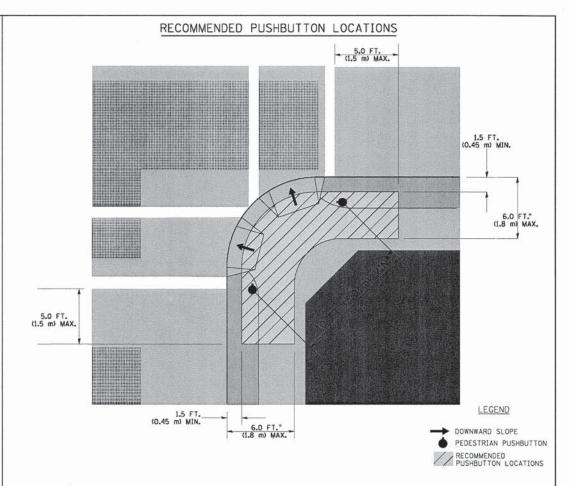
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE 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.
- 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:

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

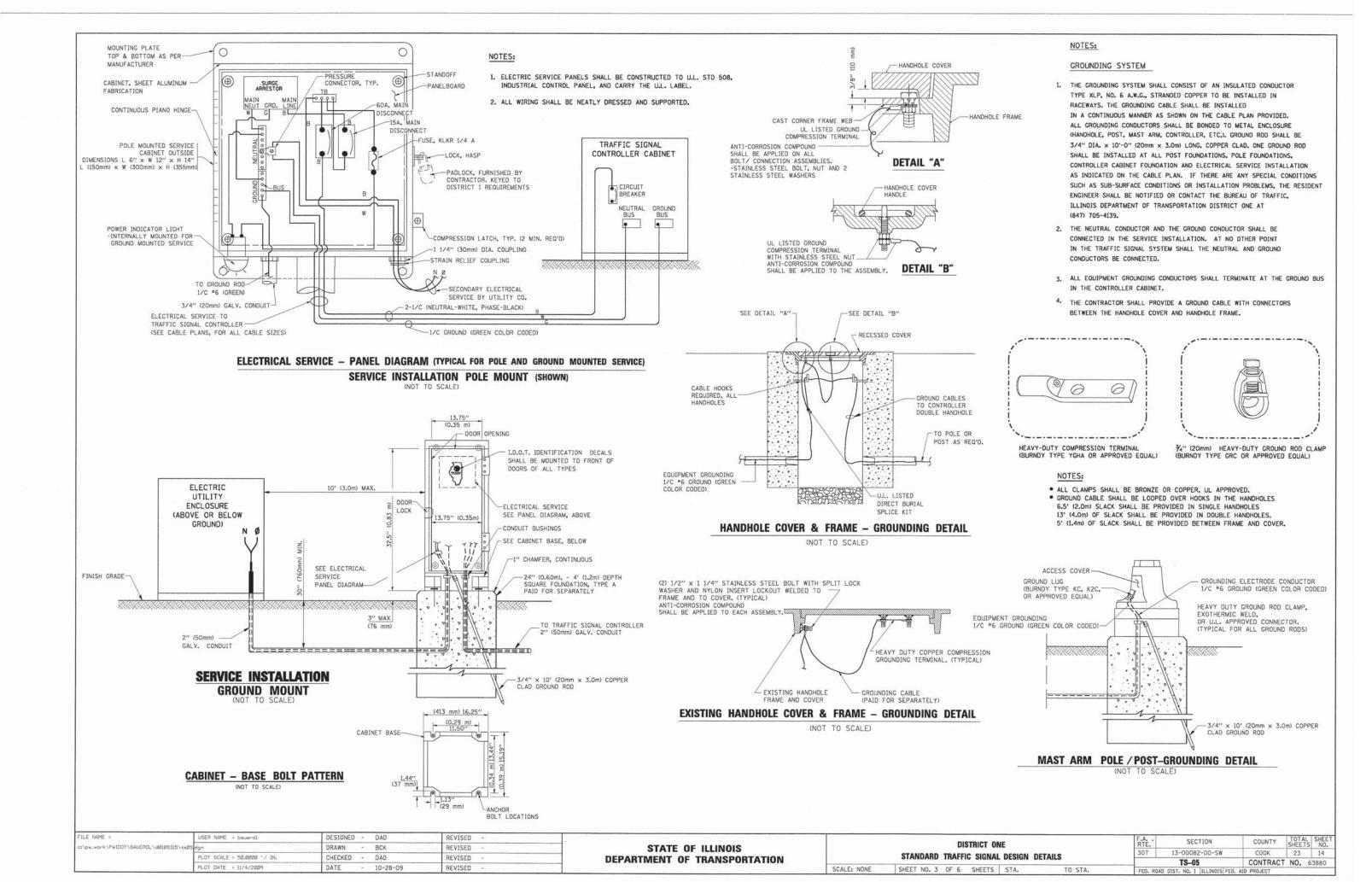
## TRAFFIC SIGNAL EQUIPMENT OFFSET

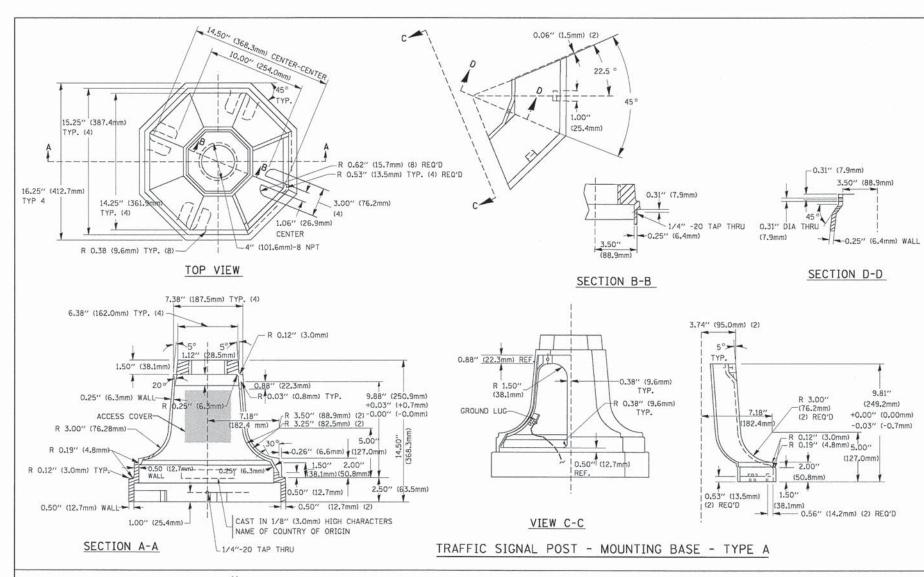
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

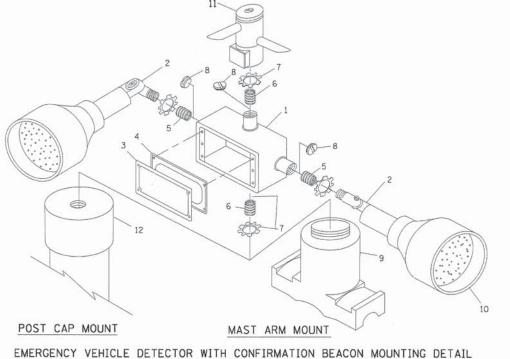
## NOTES:

- 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.

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	c:\pw_work\PWIDOT\8AUERDL\dØ108315\ta05	dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS			307	13-00082-00-SW	соок	23	13
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Į		PLOT DATE = 11/4/2009	DATE - 10-28-09	REVISED -	The contraction and the contraction of the contract	SCALE: NONE	SHEET NO. 2 OF 6 SHEETS STA. TO STA.	FED. RO.	AD DIST. NO. 1 ILLINOIS FED.	AID PROJECT		







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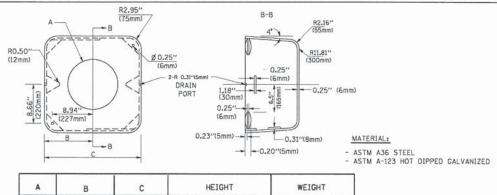
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ITEM	NO. IDENTIFICATION
1	OUTLET BOX- GALV, 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4"(19 mm) CLOSE NIPPLE
7	3/4"(19 mm) LOCKNUT
8	3/4"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
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-O-SHADE LAMP SHIELD OR EQUIVALENT
  ITEM \*9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM \*9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A %"(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.

## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

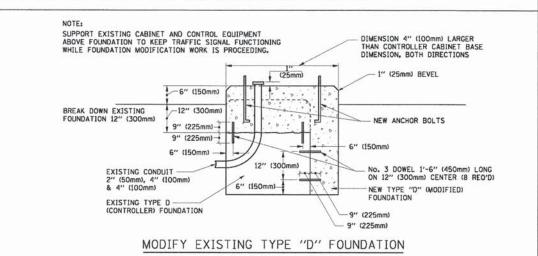


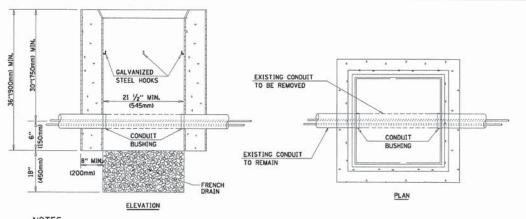
Α	В	С	HEIGHT	WEIGHT		
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)		
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)		
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)		
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126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

## SHROUD

### 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.



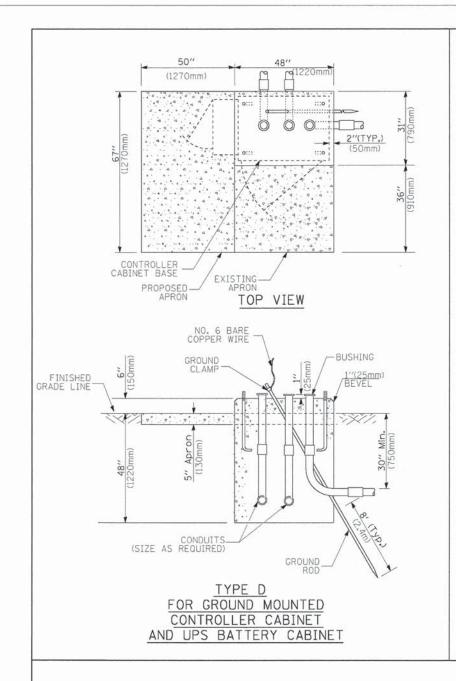


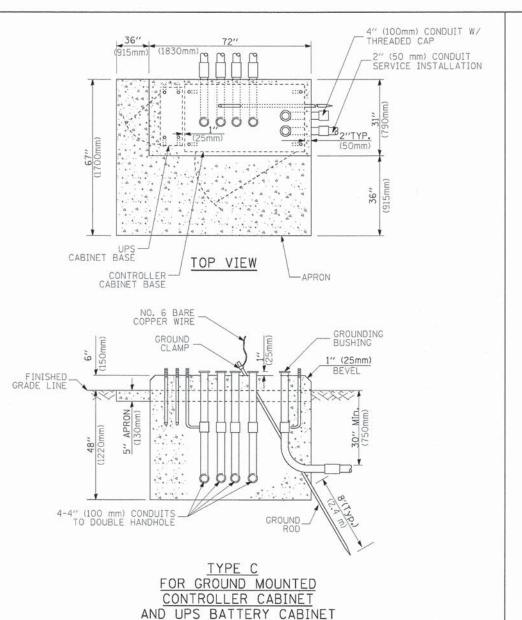
## NOTES:

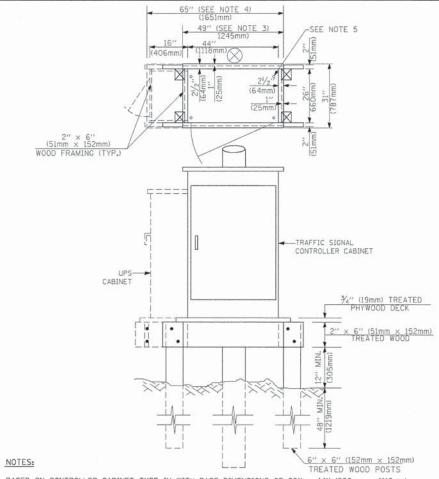
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

## HANDHOLE TO INTERCEPT EXISTING CONDUIT

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SHEET NO. 4	OF 6	SHEETS	STA.	TO STA.	FED. ROAL	D DIST. NO. 1   ILLINOIS FED.	AID PROJECT		







- 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.
- 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		

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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)

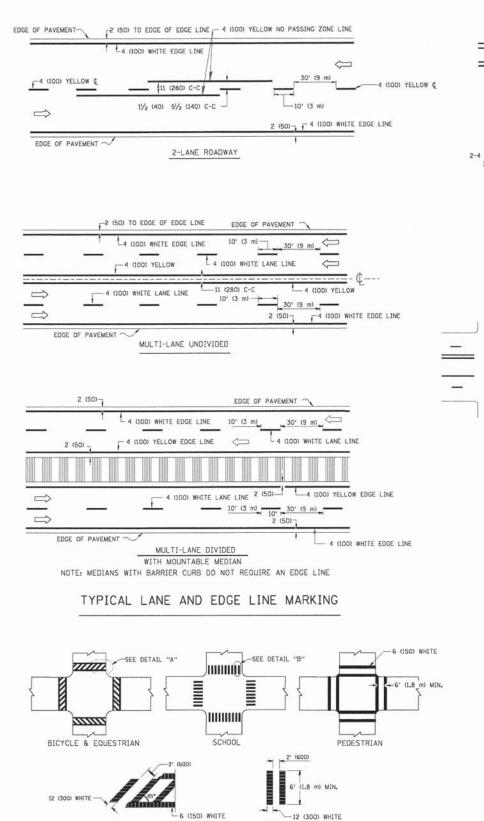
- These foundation depths are for sites which have cohesive soils (clayey slit, sandy clay, etc.) along
  the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa).
  This strength shall be verified by boring data prior to construction or with testing by the Engineer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

## DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME =	USER NAME = bouerdl	DESIGNED -	DAG	REVISED -				IOTRIOT (	NIP.		F.A.	SECTION	COUNTY	TOTAL SH	EET
c:\pw_work\PWIDOT\BAUERDL\dØ108315\ts05	dgn	DRAWN -	BCK	REVISED -	STATE OF ILLINOIS			ISTRICT (			307	13-00082-00-SW	COOK	SHEETS	0.
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	DAD	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD TRAF	FIC SIGN	AL DESIGN	DETAILS	301	TS-05	CONTRAC	T NO 63	80
PLOT SC PLOT OF	PLOT DATE = 11/4/2009	DATE -	10-28-09	REVISED -		SCALE: NONE	SHEET NO. 5 OF 6	SHEETS	STA.	TO STA.	FED. RO		. AID PROJECT		-

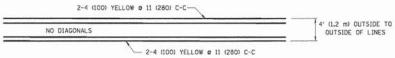
# TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	<u>ITEM</u> R	EMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R R			EMERGENCY VEHICLE LIGHT DETECTOR	R≪	<b>©</b>	-	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		<del>_</del> 0	
RAILROAD CONTROL CABINET	of control of	R B		CONFIRMATION BEACON	R <sub>o-Q</sub>	<b>○</b> ─<	н	THE TEAT OF STREET OF STREET		_/	-
OMMUNICATIONS CABINET	CCR	ECC	CC	HANDHOLE	R 🖂			COAXIAL CABLE		— <u> </u>	_©_
ASTER CONTROLLER		EMC	MC	MANUFICE				VENDOR CARLE FOR CAMERA		ď	
MASTER MASTER CONTROLLER	R	EMMC	MMC	HEAVY DUTY HANDHOLE	H	H	H	VENDOR CABLE FOR CAMERA			— <u>V</u> —
NINTERRUPTIBLE POWER SUPPLY	UPS	EUPS	UPS	DOUBLE HANDHOLE	*D			COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		-6-	-6-
ERVICE INSTALLATION, P) POLE OR (G) GROUND MOUNT	- <u>□</u> R	-D <sup>P</sup>	<u>-■</u> P	JUNCTION BOX GALVANIZED STEEL CONDUIT		<b>O</b>	<u> </u>	FIBER OPTIC CABLE NO. 62.5/125, MM12F		—(12F)—	
ELEPHONE CONNECTION P) POLE OR (G) GROUND MOUNT	R	PI	PI	IN TRENCH (T) OR PUSHED (P) TEMPORARY SPAN WIRE, TETHER WIRE,	R			FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		<u>—245</u> —	-24F-
TEEL MAST ARM ASSEMBLY AND POLE	RO	0	•	AND CABLE				FIBER OPTIC CABLE NO. 62.5/125.		-/	
LUMINUM MAST ARM ASSEMBLY AND POLE	R	0		COMMON TRENCH			CT	(NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)		->-	-0-
TEEL COMBINATION MAST ARM SSEMBLY AND POLE WITH LUMINAIRE	<sup>R</sup> o-¤	0->>	• ×	COILABLE NONMETALLIC CONDUIT (EMPTY) SYSTEM ITEM		S	CNC S	GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM,		c <sub>ill</sub> .	C <sub>il</sub> I⊢•
TEEL COMBINATION MAST ARM SSEMBLY AND POLE WITH PTZ CAMERA	PZD	· PT	PO	INTERSECTION ITEM		I	IP	OR (S) SERVICE		4	- N
IGNAL POST	RO	0	•	REMOVE ITEM	R			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
EMPORARY WOOD POLE (CLASS 5 OR ETTER) 45 FOOT (13.7m) MINIMUM	R⊗	$\otimes$	•	RELOCATE ITEM ABANDON ITEM	RL A			STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
UY WIRE	>R	>	>-	12" (300mm) TRAFFIC SIGNAL SECTION		R	R		MF		
IGNAL HEAD	_R 	->	-	12" (300mm) RED WITH 8" (200mm)		R			IMIT		
GNAL HEAD CONSTRUCTION STAGES UMBERS INDICATE THE CONSTRUCTION STAGE)			2	YELLOW AND GREEN TRAFFIC SIGNAL FACE				AND POLE WITH LUMINAIRE AND	MF		
IGNAL HEAD WITH BACKPLATE	+DR	+>	+			R	R	FOUNDATION TO BE REMOVED			
IGNAL HEAD OPTICALLY PROGRAMMED	_R -□>"P"	—□>"p"	<b>→</b> "P"	SIGNAL FACE		G	G	SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
LASHER INSTALLATION DENOTES SOLAR POWER)	O-R "F"	O-D″F″	<b>●►</b> "F"			• 6	◆Y ◆G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		[IS]	IS
EDESTRIAN SIGNAL HEAD	P <sub>0</sub>	-0	-1			R	R	SAMPLING (SYSTEM) DETECTOR		[5]	S
EDESTRIAN PUSHBUTTON DETECTOR	R ©	6	•	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD			G 4Y	EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		[P]	
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	@APS	APS  O  O  O  O  O  O  O  O  O  O  O  O  O			₩ G	<b>4</b> G	EXISTING PREFORMED INTERSECTION LOOP DETECTOR		[PP]	
LLUMINATED SIGN NO LEFT TURN"	R	(3)	9	12" (300mm) PEDESTRIAN SIGNAL HEAD				PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR  PREFORMED INTERSECTION AND SAMPLING			
LLUMINATED SIGN	R			WALK/DON'T WALK SYMBOL		(SW)		(SYSTEM) DETECTOR		PIS	PIS
NO RIGHT TURN"	8	8		12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS
ETECTOR LOOP, TYPE I				12" (300mm) PEDESTRIAN SIGNAL HEAD							
REFORMED DETECTOR LOOP		JPJ	Р	INTERNATIONAL SYMBOL, SOLID		×	*	RAILROAD S	YMBO	LS	
ICROWAVE VEHICLE SENSOR	RMI	Ma	M	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		<b>₽</b> C	<b>₽</b> C <b>★</b> D			EXISTING	PROPOSED
IDEO DETECTION CAMERA	R Vþ	<b>₩</b>		RADIO INTERCONNECT	<del>    R</del> O	11110		RAILROAD CONTROL CABINET		R R	▶<
DEO DETECTION ZONE						531	(9)	RAILROAD CANTILEVER MAST ARM	$\Xi$	(O <u>X</u> X	Xex X X
AN THE TOOM CANEDA	R			RADIO REPEATER	RERR	ERR	RR	FLASHING SIGNAL		<del>∑0</del> ∑	<b>X</b> ⊕ <b>X</b>
AN, TILT, ZOOM CAMERA				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE,		_5	_5_	CROSSING GATE		<del>202</del> >	XOX-
/IRELESS DETECTOR SENSOR	RW	W	W	ALL DETECTOR LOOP CABLE TO BE SHIELDED		34					
WIRELESS ACCESS POINT	R			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)			(1)	CROSSBUCK		<b>≥</b>	*
E NAME = USER NAME = boundl pw_work\PWIDOT\BAUERDL\d0100315\to05dgn		DESIGNED - DAG/BCK DRAWN - BCK	REVISED -	STATE	OF ILLINOIS	3		DISTRICT ONE	F.A RTE.	SECTION 13-00082-00-SW	COUNTY TOTAL SHEETS
PLOT SCALE = 50.0000 '/	IN.	CHECKED - DAD	REVISED -	DEPARTMENT (				STANDARD TRAFFIC SIGNAL DESIGN DETAILS	307	13-00082-00-SW TS-05	COOK 23 CONTRACT NO. 6

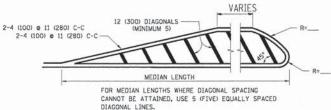


TYPICAL CROSSWALK MARKING

DETAIL "A"

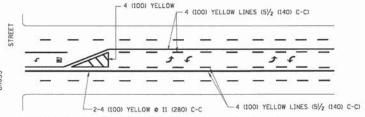


## 4' (1.2 m) WIDE MEDIANS ONLY



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

## MEDIANS OVER 4' (1.2 m) WIDE

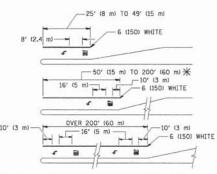


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

## TYPICAL PAINTED MEDIAN MARKING

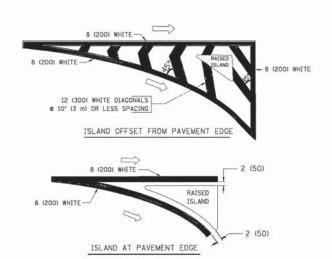


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  $\P$  AREA = 15.6 SQ. FT. (1.5 m²) 0 AREA = 20.8 SQ. FT. (1.9 m²)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

## TYPICAL TURN LANE MARKING



## TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS	
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE	
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 2 4 (100)	SOLID	YELLOW	11 (280) C-C	
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 a 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN	
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE	
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE	
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EGGE LINES ARE NOT USED NEXT TO BARRIER CURB	
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL	
TWO WAY LEFT TURN MARKING	2 to 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE	
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL	
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART 5EE TYPICAL CROSSWALK MARKING DETAILS.	
STOP LINES	24 (600)	SOLID	жнітє	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSMALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE	
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1,2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.	
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (0VER 45MPH (70 km/h))	
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m²) EACH "X"=54,0 SO. FT. (5.0 m²)	
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) T0 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))	

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

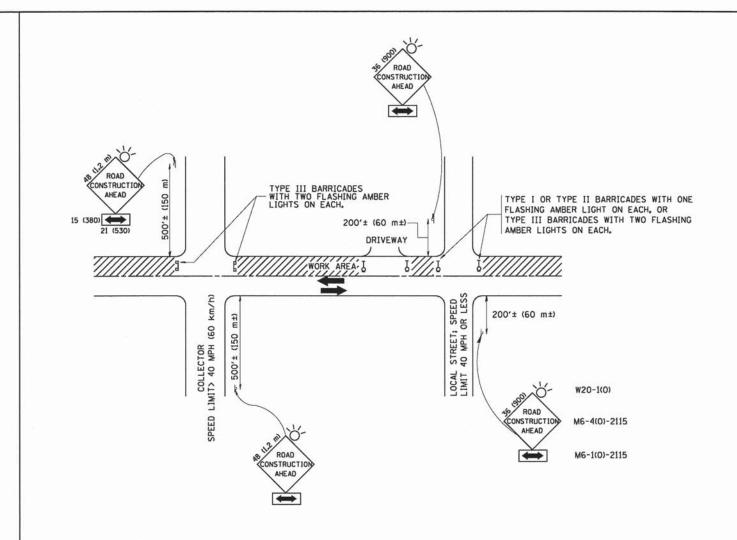
All dimensions are in inches (militmeters) unless otherwise shown.

FILE NAME =	USER NAME = drivekosgn	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94
c:\pw_work\pwidot\drivekosgn\d2108315\tc 3.dgn		DRAWN -	REVISED -C. JUCIUS 09-09-09
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

DETAIL "B"

STATE	E OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS				F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.		
				307	13-00082-00-SW	COOK	23	18		
TITICAL PAVENIENT MANNINGS				TC-13	CONTRACT	NO.	63880			
SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. 1   ILLINOIS FED.	AID PROJECT		



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

## NOTES:

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

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

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

FILE NAME =	USER NAME = geglienobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
W:\diststd\22x34\tcl0.dgn		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

STATI	E 01	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

	F.A.P. RTE.	SECTION		
	307	307 13-00082-00-SI		
	SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS		TC-10	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO ST	A. FED. ROA	D DIST. NO. 1 ILLINOIS	

