STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU RTE 3578 (SOUTHWEST HIGHWAY) SOUTH OF 117TH STREET TO CAL—SAG CHANNEL **NEW SIDEWALK AND TRAFFIC SIGNAL MODIFICATION**

SECTION 11-00049-00-SW

PROJECT M-9003(843) CITY OF PALOS HEIGHTS **COOK COUNTY** JOB NO: C-91-641-11

CITY OF PALOS HEIGHTS R 12 E 3rd P.M.

> PROJECT ENDS **STATION** 27 + 54.57

BEGIN OMISSION STATION 11 + 69.19 END OMISSION **STATION 15 + 53.12**

PROJECT BEGINS **STATION 10 + 18.05**

DESIGN DESIGNATION = MINOR ARTERIAL

TRAFFIC VOLUME = 23,300 VPD POSTED SPEED = 45 MPH

INDEX OF SHEETS

12-16 TRAFFIC SIGNAL STANDARDS 17-19 CONSTRUCTION DETAILS 20-22 DISTRICT 1 STANDARDS 23-29 CROSS SECTIONS

4 TYPICAL SECTIONS 5-8 PLAN & PROFILES 9-10 TRAFFIC SIGNAL PLANS 11 INTERCONNECT PLAN

COVER SHEET/INDEX OF SHEETS GENERAL NOTES & STANDARDS SUMMARY OF QUANTITIES

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

T37N RSE: SW1/4 SEC 1; SE1/4 SEC 2; NE1/4 SEC 11; N1/2 SEC 12 DESIGN DIG NO. A1372786: T37N R9E: SE1/4 SEC 12; NE1/4 SEC 13 T37N R10E: SW/4 SEC 7; NW/4 SEC 18

CONTRACT NO. 63732

VERTICAL CONTROL DATUM IS NGVD 29 AND BENCHMARKS APPLY TO THIS PLAN SET ONLY.

PROJECT LENGTH

SOUTHWEST HWY SIDEWALK

TOTAL NET PROJECT LENGTH

PROJECT LOCATED IN

GROSS 1,736.52 FT

1,736.52 FT

(0.33 MILES)

LOCATION MAP

NOT TO SCALE

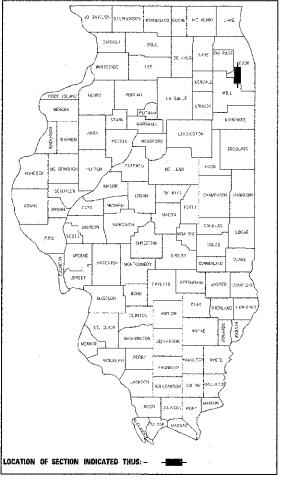
NET 1,352.60 FT 1.352.60 FT (0.26 MILES)

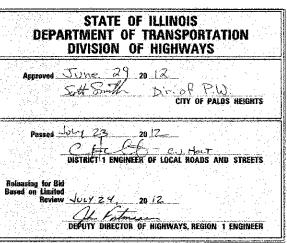
ா் _W College Dr

DAVID D. LANDEWEER, P.E. LICENSE NO: 062-042363 EXPIRES: NOVEMBER 30, 2013

DATE: 6/29/12

CONTRACT NO. 63732





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PLANS PREPARED BY:

100 S. WACKER DR., SUITE 500 TEL (312)-939-1000 CHICAGO IL, 60606 FAX (312)-939-4198



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

DESIGN DIG NO. A1372782:

Washing Countries Street, TW top Wild 2012 a 2014 144

GENERAL PLAN NOTES

GENERAL NOTES - BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED HITH ITY FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED).

> ALL STATION-OFFSET CALL OUTS AND CURVE DATA ON THE PLANS REFER TO THE PROPOSED CENTERLINE UNLESS OTHERWISE SHOWN.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS

SPECIFICATIONS - ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2012, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINGIS", MAY 1996 EDITION, THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND BIGHWAYS", LATEST EDITION, THE DETAILS INCLUDED IN THE PLANS, AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

STANDARDS

ANY REFERENCE TO "SYANDARDS" THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE CURRENT STANDARD OF IDOT AS LISTED ON THIS SHEET.

COORDINATION

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK, AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE CITY OF PALOS HEIGHTS. THE CONTRACTOR SHALL ALSO OBTAIN ANY AND ALL NECESSARY PERMITS REQUIRED BEFORE THE START OF ANY CONSTRUCTION.

PUBLIC OR PRIVATE UTILITIES

THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE, AND THE DEPARTMENT DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR WILL BE REQUIRED TO ASCERTAIN THE EXACY LOCATIONS OF SUCH UTILITIES AND EXERCISE CARE DURING CONSTRUCTION OPERATIONS SO AS NOT TO DAMAGE THEM, IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND ARTICLE 107.20 OF THE "STANDARD SPECIFICATIONS". THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE UTILITY OWNERS SO THAT THEIR FACILITIES MAY BE ADJUSTED OR RELOCATED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED IN THE PLANS. ALL RELOCATION WORK ON EXISTING PRIVATE UTILITIES WILL BE DONE BY THE OWNER OF THAT UTILITY

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR DESTRUCTION OF PUBLIC OR PRIVATE PROPERTY, AND SHALL RESTORE SUCH PROPERTY AT HIS/HER OWN EXPENSE IN ACCORDANCE WITH ARTICLE 107.20.

SURVEY MONUMENTS

THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS UNTIL THE OWNER, HIS AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR CTHERWISE REFERENCED THEIR LOCATIONS.

WHFRE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE MONUMEN'S ARE REMOVED.

DISPOSAL OF MATERIA S

THE CONTRACTOR WILL BE REQUIRED TO DISPOSE OF ALL SIDEWALK, CURB AND GUTTER, PAVEMENT, AND ALL OTHER MATERIALS EXCAVATED OR REMOVED DUE TO CONSTRUCTION OPERATIONS, AT HIS EXPENSE. NO PAYMENT WILL BE MADE FOR HAULING OR TRUCKING MATERIAL TO LOCATIONS, PROVIDED BY THE CONTRACTOR, OUTSIDE THE LIMITS OF THE IMPROVEMENT IS INCLUDED IN THE COST OF THE INDIVIDUAL REMOVAL ITEMS.

EXISTING DRAINAGE STRUCTURES DURING CONSTRUCTION OPERATIONS, WHENEVER 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 BY THE CONTRACTOR AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY DUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS OR CATCH BASINS. HE/SHE SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS, AND DISCHARGE SAME, HE/SHE SHALL PROVIDE AND MAINTAIN AN EFFICIENT PLMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET, AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWERS ARE BUILT AND IN SERVICE. THIS WORK WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT

UNSLITABLE MATERIAL

BEFORE REMOVAL OF ANY UNSUITABLE WATERIAL, THE CONTRACTOR SHALL TREAT THE SUBGRADE AS PER ARTICLE 301.03 OF THE "STANDARD SPECIFICATIONS" TO THE SATISFACTION OF THE ENGINEER. UNSUITABLE MATERIAL SHALL NOT BE USED AS EMBANKMENT OR FILL UNDER THE PROPOSED PATH AS SHOWN ON THE TYPICAL CROSS SECTIONS. STOCKPILES

STOCKPILES OF TOPSOIL AND OTHER MATERIALS SHALL NOT BE LOCATED WITHIN A WETLAND AND/OR FLOOD PLAIN. APPROVAL OF THE LOCATION MUST BE OBTAINED FROM THE ENGINEER PRIOR TO PLACEMENT. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, THE EROSION CONTROL MEASURES' SHALL BE PROVIDED. STOCKPILES TO REMAIN IN PLACE FOR 30 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

TREE TRIMMING ALL BRANCHES THAT ARE LESS THAN 12 FEET ABOVE THE SURFACE OF THE SIDEWALK SHALL BE REMOVED BY THE CONTRACTOR. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH ANSI STANDARD A300-2001 (PART 1) FOR TREE, SHRUB AND OTHER WOODY PLANT MAINTENANCE AND ANSI Z133.1-1994 FOR TREE CARE OPERATIONS PRUNING, TRIMMING, REPAIRING, MAINTAINING AND REMOVING FREES AND CUTTING BRUSH. THIS WORK SHALL BE INCLUDED IN THE COST OF MOBILIZATION AND WILL NOT BE PAID FOR SEPARATELY.

ACCESS TO ABUTTING PROPERTY

THE CONTRACTOR SHALL MAINTAIN ACCESS TO ABUTTING PROPERTY DURING THE CONSTRUCTION OF THIS PROJECT, EXCEPT FOR PERIODS OF SHORT DURATION AS APPROVED BY THE ENGINEER.

SAW CUTTING

THE LIMITS OF REMOVAL OF ALL CONCRETE OR BITUMINOUS PAVEMENTS, CURBING OR SIDEWALK ADJACENT TO EXISTING LIKE PAVEMENTS, CURBING OR SIDEWALKS SHALL BE SAWCUT IN ACCORDANCE WITH SECTION 440 OF THE "STANDARD SPECIFICATIONS" AND AT THE DIRECTION OF THE ENGINEER. THE SAW CUTTING OF BITUMINOUS PAVEMENT, DRIVEWAYS, CURSIAG OR SIDEWALK SHALL BE CONSIDERED INCLUDED IN THE COST OF HE CONTRACT AND WILL NOT BE PAID FOR AS SEPARATE ITEMS.

RESTORATION

GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED WITH SIX INCHES TOPSOIL AND SEED OR SOD AS SPECIFIED.

PRESERVATION OF TREES AND SHRUBS

THE CONTRACTOR SHALL REMOVE ONLY THOSE TREES AND SHRUBS SO DESIGNATED BY THE ENGINEER, OR THOSE WHICH DIRECTLY INTERFERE WITH THE SAFETY OR QUALITY OF CONSTRUCTION PRACTICES. THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN WORKING NEAR EXISTING TREES AND SHRUBS TO AVOID DAMAGING THOSE NOT SCHEDULED FOR REMOVAL, AND SHALL REPLACE ANY DAMAGED PLANTS AT HIS/HER OWN EXPENSE.

EXISTING PAVEMENT AND APPURTENANCES

WHEN PORTIONS OF EXISTING PAVEMENTS OR APPURTENANCES ARE TO REMAIN IN PLACE. OR ADJACENT EXISTING PAVEMENTS OR APPURTEMANCES ARE TO REMAIN IN PLACE, THE CONTRACTOR SHALL FORM A PERPENDICULAR STRAIGHT JOINT BY FULL-DEPTH MACHINE SAWING AT THE ENDS AND ALL EDGES OF PORTIONS TO BE REMOVED TO PREVENT SURFACE SPALLING WHEN THE EXISTING PAVEMENT OR APPURTENANCE IS REMOVED. ANY DAMAGE TO THE EXISTING PAVEMENT OR APPURTENANCE TO REMAIN IN PLACE SHALL BE REPAIRED OR REMOVED AND REPLACED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE, AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE MEASURED OR PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM BEING REMOVED.

SEDIMENTATION AND EROSION CONTROL NOTES

- A, SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION, SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- 3. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE.
- C. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS WITHIN 14 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE PERMANENT STABILIZATION SHALL BE DONE WITHIN 14 DAYS AFTER COMPLETION OF FINAL GRADING OF THE SOLE
- C. ALE STORM SEWER FACILITIES THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, FILTERED, OR OTHERWISE TREATED TO
- E. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED. WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEFORD. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.
- F. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTION AND REPAIR DURING CONSTRUCTION.
- G. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.
- H. THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL PRIOR TO THE START OF ANY EARTHWORK.

HIGHWAY STANDARDS

000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATERNS

280001-06 TEMPORARY EROSION CONTROL SYSTEMS

4240C1-06 PERPENDICULAR CURB RAMPS FOR SIDEWALKS

DIAGONAL CURB RAMPS FOR SIDEWALKS

606001-04 CONCRETE CURB TYPE 8 AND COMBINATION CONCRETE CURB AND GUTTER

701606-08 URBAN LANE CLOSURE, MULTICANE, 2W WITH

MOUNTABLE MEDIAN

701901-02 TRAFFIC CONTROL DEVICES

857001 01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES

880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

100 S.WACKER DR., SUITE 500 CHICAGO II.60606

DESIGNED KL/ REVISED RAWN REVISED THE SCALE - MISCALEA CHECKED DDI REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SOUTHWEST HIGHWAY SIDEWALK **GENERAL NOTES & STANDARDS** SCALE: N/A DRAWING NO. 1 OF 1 STA.

TO STA.

SECTION SHEETS NO COUNTY 11-00049-00-SW COOK CONTRACT NO. 63732

TREE RE	MOVAL SCHEDULE		
LOCATION	OFFSET (FT)	6 TO 1	5 UNITS
STATION	ĹŤ	RT	DIAMETER
18+40	1.5		9
22+50	8.8		12
23+35	9		12
		TOTAL	33

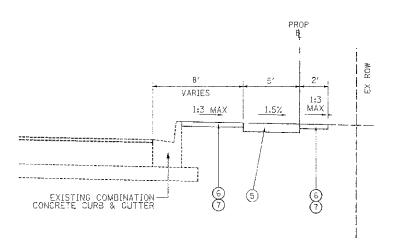
PROPOSED TRE	E SCHEDU	LE	
ITEM:	LOCATION	OFFSETLT	NUMBER
II CIW	STATION	(FT)	(EACH)
TREE, GYMNOCLADUS DIOICUS			
(KENTUCKY COFFEE TREE),	+		
3" CALIPER, BALLED AND BURLAPPED	18+60	6.5	1
^ ^ -			
TREE, ACER RUBRUM (RED MAPLE),			
3" CALIPER, BALLED AND BURLAPPED	19+70	6.5	1
TREE, GYMNOCLADUS DIOICUS			
(KENTUCKY COFFEE TREE)		!	
3" CALIPER, BALLED AND BURLAPPED	21+75	10	1
TREE, ACER RUBRUM (RED MAPLE),			
3" CALIPER, BALLED AND BURLAPPED	22+25	10	1
TREE GYMNOCLADUS DIQICUS			
(KENTUCKY COFFEE TREE).			
3" CALIPER, BALLED AND BURLAPPED	22+75	10	1
TREE, ACER RUBRUM (RED MAPLE),			
3" CALIPER, BALLED AND BURLAPPED	23+25	10	11

	EARTHWOR	K TABLE	
UNSUITABLE EXCAVATION (REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL)	UNSUITABLE MATERIAL ADJUSTED FOR SHRINKAGE	TOPSOIL FURNISH AND PLACE, 4"	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (UNSUITABLE MATERIAL)
CUYD	CUYD	CUYD	CUYD
217	162.75	70	92.75

		SUMMARY OF QUANTITIES	 , ,	
	CODE NO.	пем	UNIT	TOTAL QUANTI 0021
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	
	20101100	TREE TRUNK PROTECTION	EACH	
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	2
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	
r	21101615	TOPSOIL FURNISH AND PLACE, 4"	. SQ YD	(
ζ	25000210	SEEDING, CLASS 2A	ACRE	C
ξ.	25000350	SEEDING, CLASS 7	ACRE	0
¥	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	2
 k	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	2
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	2
 Ł	25100115	MULCH, METHOD 2	ACRE	(
 t-	25200110	SODDING, SALT TOLERANT	SQYD	
	28000400	PERIMETER EROSION BARRIER	FOOT	
	28000500	INLET AND PIPE PROTECTION	EACH	
_~-~	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	
	40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	
	40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	
	42001300	PROTECTIVE COAT	SQYD	
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQFT	5,
	42400800	DETECTABLE WARNINGS	SQFT	
	44000100	PAVEMENT REMOVAL	SQYD	
	44000153	HOT-MIX ASPHALT SURFACE REMOVAL, 1"	SQ YD	
	44000300	CURB REMOVAL	FOOT	
	44000600	SIDEWALK REMOVAL	SQFT	
*	50901720	BICYCLE RAILING	FOOT	
	60255500	MANHOLES TO BE ADJUSTED	EACH	
	60600605	CONCRETE CURB, TYPE B	FOOT	
	67100100	MOBILIZATION	LSUM	
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	

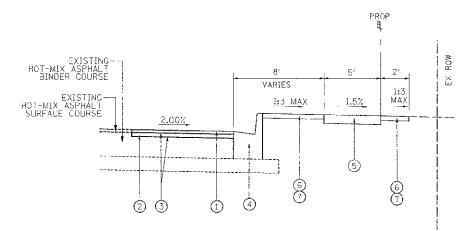
	CODE NO.	SUMMARY OF QUANTITIES ITEM	UNIT	TOTAL QUANTIT 0021
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	20
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	14
×	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	15
·····································	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	12
*	81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	
*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	
*	87301215 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C		FOOT	39
*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	40
*	87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	
*	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	
*	87900200	DRILL EXISTING HANDHOLE	EACH	
*	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	
*	88800100	PEDESTRIAN PUSH-BUTTON	EACH	
*	89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	
*	89502200	MOD/FY EXISTING CONTROLLER	EACH	
	X4400220	CURB REMOVAL AND REPLACEMENT	FOOT	10
	X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	\$Q.YD	4
	X8140115	HANDHOLE TO BE ADJUSTED	EACH	
	20004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	12
	Z0013302	SEGMENTAL CONCRETE BLOCK WALL	SQFT	88
	30300001	Aggregate Subgrade improvement	CUYD	4
	Z0042300	PORTLAND CEMENT CONCRETE SIDEWALK CURB	FOOT	1
*	A2001024	TREE, ACER RUBRUM (RED MAPLE), 3" CALIPER, BALLED AND BURLAPPED	EACH	10.010.000
*	A2005024	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEE TREE), 3" CALIPER, BALLED AND BURLAPPED	EACH	

^{*} SPECIALTY ITEMS



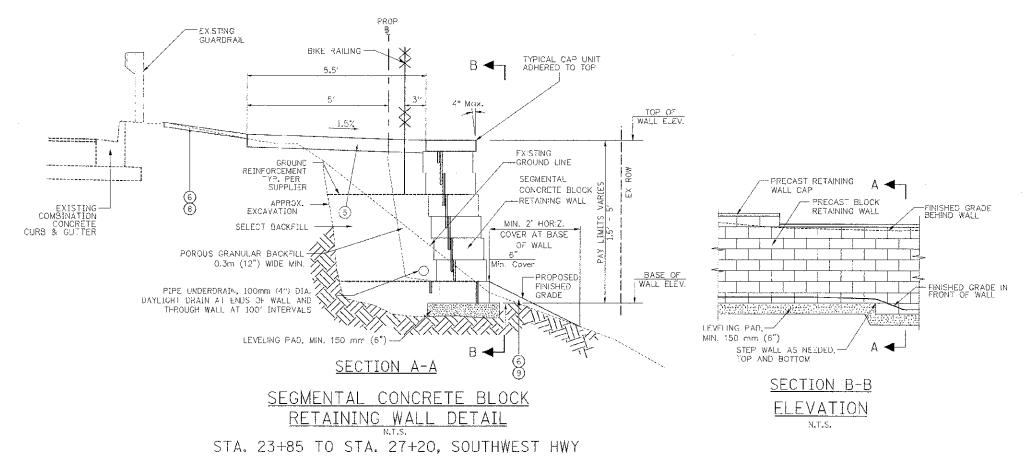
PROPOSED TYPICAL SECTION

STA. 10+18.05 TO STA. 11+69.19, SOUTHWEST HWY STA. 15+53.12 TO STA. 20+07.82, SOUTHWEST HWY STA. 21+21.37 TO STA. 23+85, SOUTHWEST HWY STA. 27+20 TO STA. 27+54.57, SOUTHWEST HWY



PROPOSED TYPICAL SECTION

STA. 20+07.82 TO STA. 21+21.37, SOUTHWEST HWY



LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (1/2")
- 2 LÉVELING BINDER (MACHINE METHOD), N70
- (3) BITUMINOUS MATERIALS (PRIME COAT)
- (4) COMBINATION CONCRETE CURB AND GUTTER, TYPE 3-6.24
- (5) PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
- (6) TOPSOIL EXCAVATION AND PLACEMENT (4" OR AS NOTED)
- (7) SODDING, SALT TOLERANT
- (8) SEEDING, CLASS 2A
- (9) SEEDING, CLASS 7

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

ITEM:	AIR VOIDS @ NDES
HOT-MIX ASPHALT SURFACE COURSE MIX "D", NTO (IL 9.5mm; $1\frac{1}{2}$ ")	4% @ 70 Gyr.
LEVELING BINDER (MACHINE METHOD) MIX "D", N70 (3/4" TO 1½")	4% © 70 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXURE QUANTITIES IS 112 EBS/SQ YD/IN

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

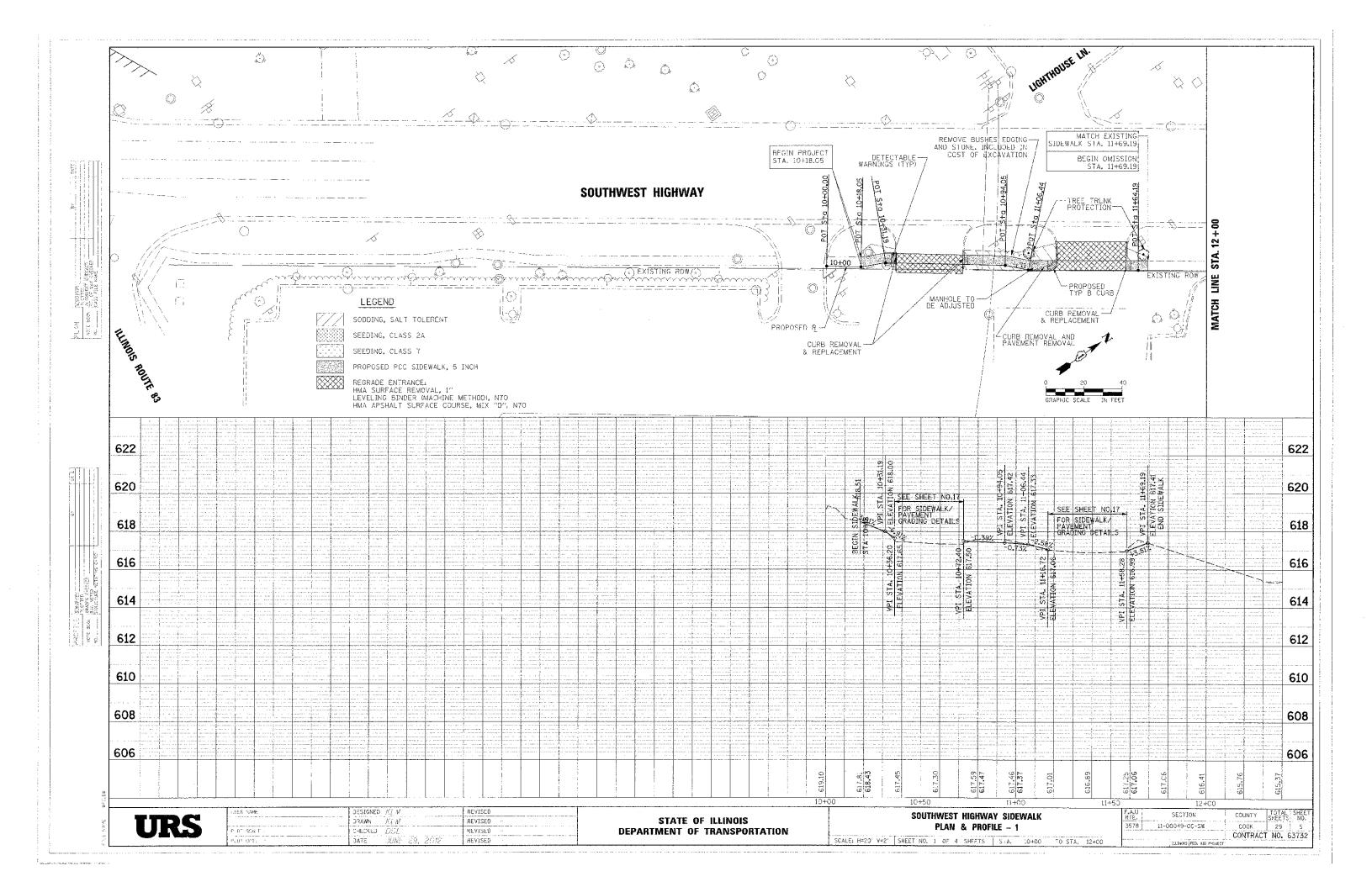
SEGMENTAL CONCRETE BLOCK WALL NOTES

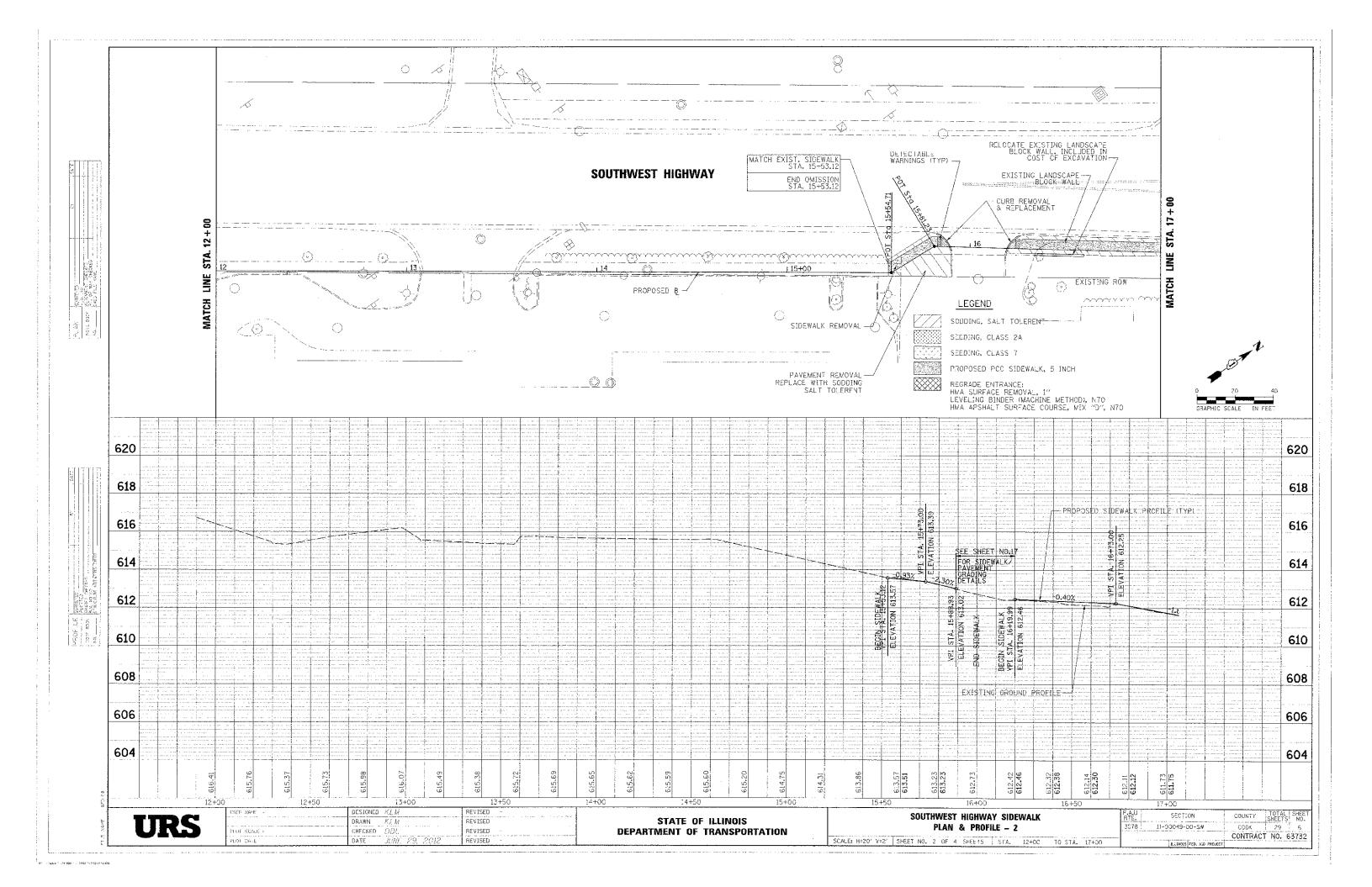
- . THE CONTRACTOR SHALL SUBMIT DESIGN, CONSTRUCTION PLANS WITH MATERIAL INFORMATION & SHOP DRAWINGS FOR CONNECTION DETAILS SIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF HITHOUSE TO THE ENGINEER FOR APPROVAL BEFORE CROERING MATERIALS.
- 2. RETAINING WALL EQUIVALENT FLUID PRESSURE = 50(PCF)
- 3. REINFORCING BARS SHALL BE GRADE 60
- 4. GROUT MORTAR, f'm = 2500 psi (Min.)
- 5. THE DESIGN OF THE RETAINING WALL SHALL BE IN COMPLIANCE WITH THE GUIDELINES FOR THE DESIGN OF MECHANICALLY STABILIZED EARTH WALLS AS DEVELOPED BY AASHTO-AGG-ARTA JOINT COMMITTEE TASK FORCE 27 GROUND MODIFICATION SYSTEMS.
- 6. EXCAVATION, LEVELING PAD, BACKFILL, PIPE UNDERDRAIN, GROUND REINFORCEMENT, GROUND RESTORATION, AND SEEDING OF RESTORED GROUND ARE INCLUDED IN COST OF CONCRETE BLOCK RETAINING WALL.
- INSTALL BIKE RAILING POST SLEEVE DURING RETAINING WALL CONSTRUCTION TO PREVENT DAMAGE TO GROUND REINFORCEMENT.

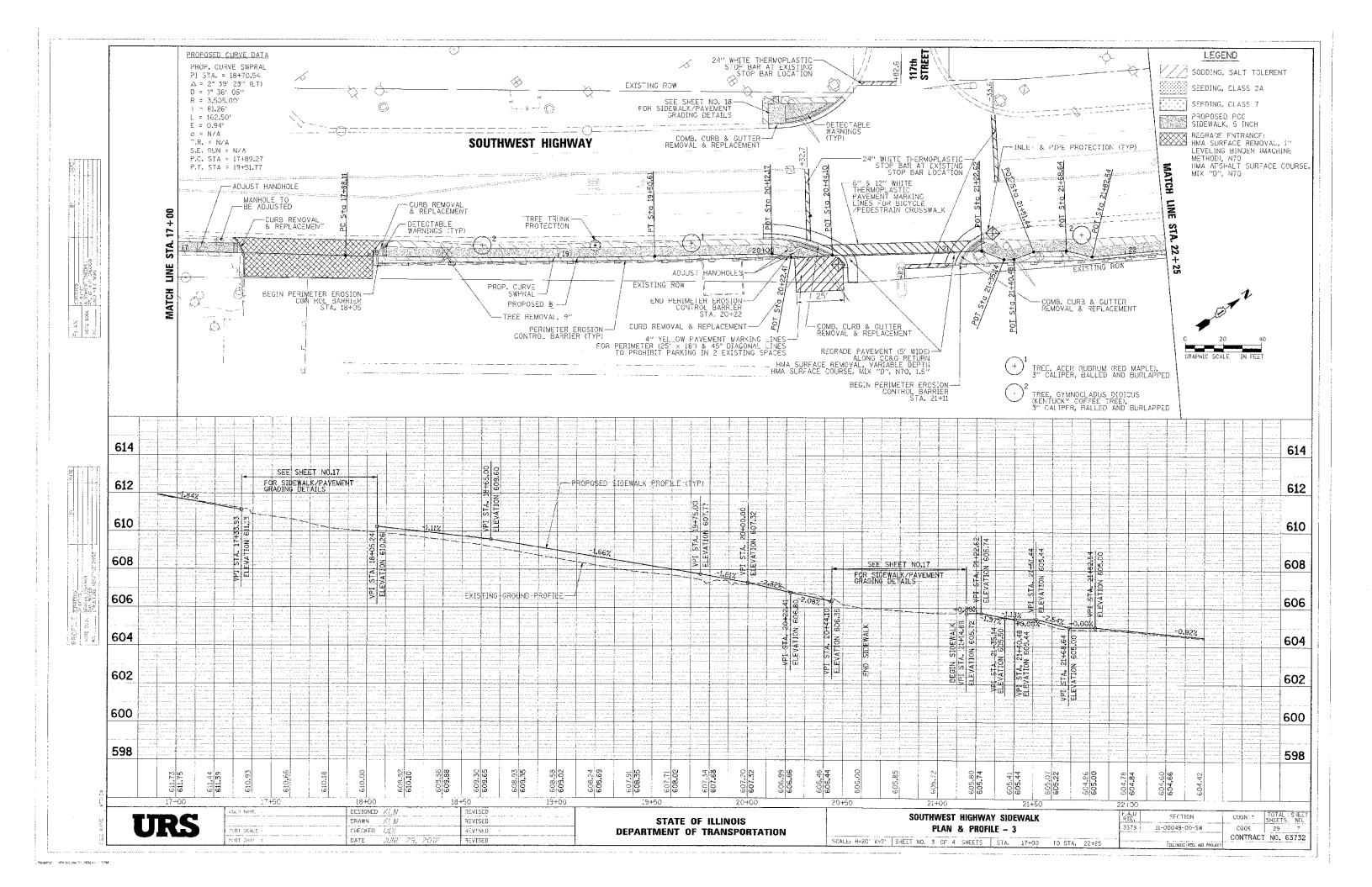
SEGMENTAL CONCRETE BLOCK RETAINING WALLS SITING DATA

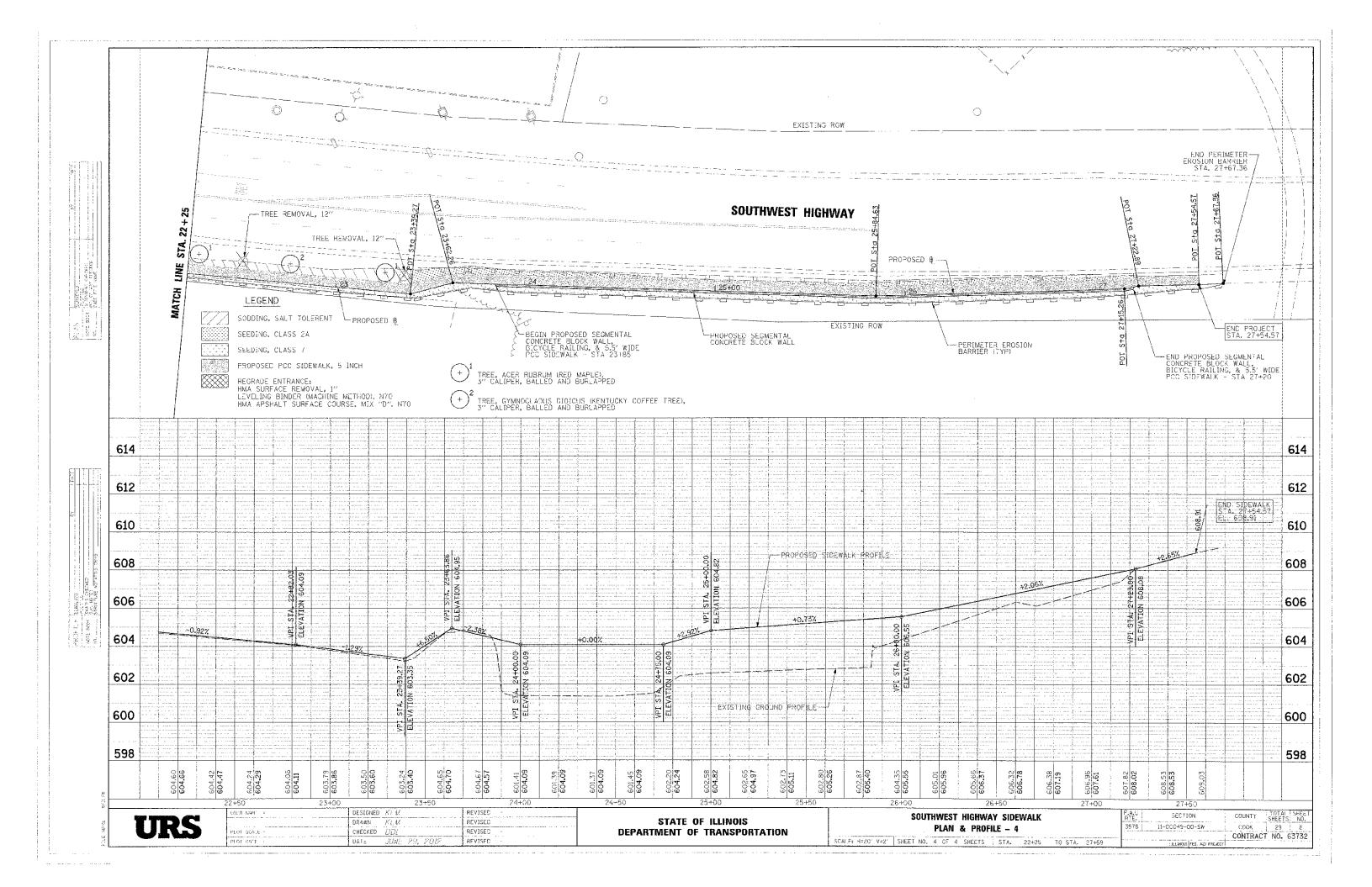
STATION	TOP OF WALL ELEV. FEET	BASE OF WALL ELEV. FEET	WALL HEIGH FEET
23+89	604.36	60C.40	3.96
24+00	604.08	60C.40	3.68
24+75	604.08	600.61	3.47
25+00	604,81	601.52	3.29
26÷00	805.54	603.51	2,03
27+27	608.08	607.05	1.03

URS SUITE 500 CHICAGO IL GOOGG SLA NAME - RUSERO DESIGNED KIM **REVISED** SOUTHWEST HIGHWAY SIDEWALK SECTION COUNTY STATE OF ILLINOIS DRAWN KLM REVISED 11-00049-00-54 TYPICAL SECTIONS 3578 6004 CHECKED ODL REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 63732 DRAWING NO. STA.



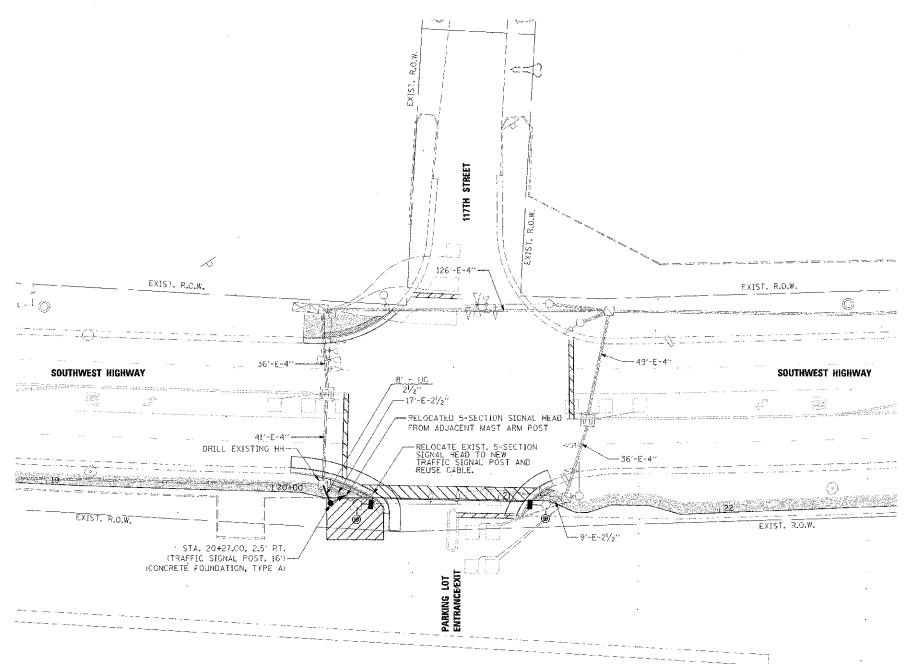






RESTCRATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD. AND ALL DAMAGE TO LINMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



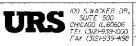


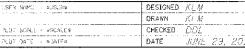
NOTES:

- 1. ALL PEDESTRIAN SIGNAL HEADS TO BE L.E.D. (LIGHT EMITTING DIOCE).
- 2. ANY DAMAGE TO THE PROPOSED SIDEWALKS SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO ADDITIONAL COST.
- 3. FOR DETAILS SEE DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS.









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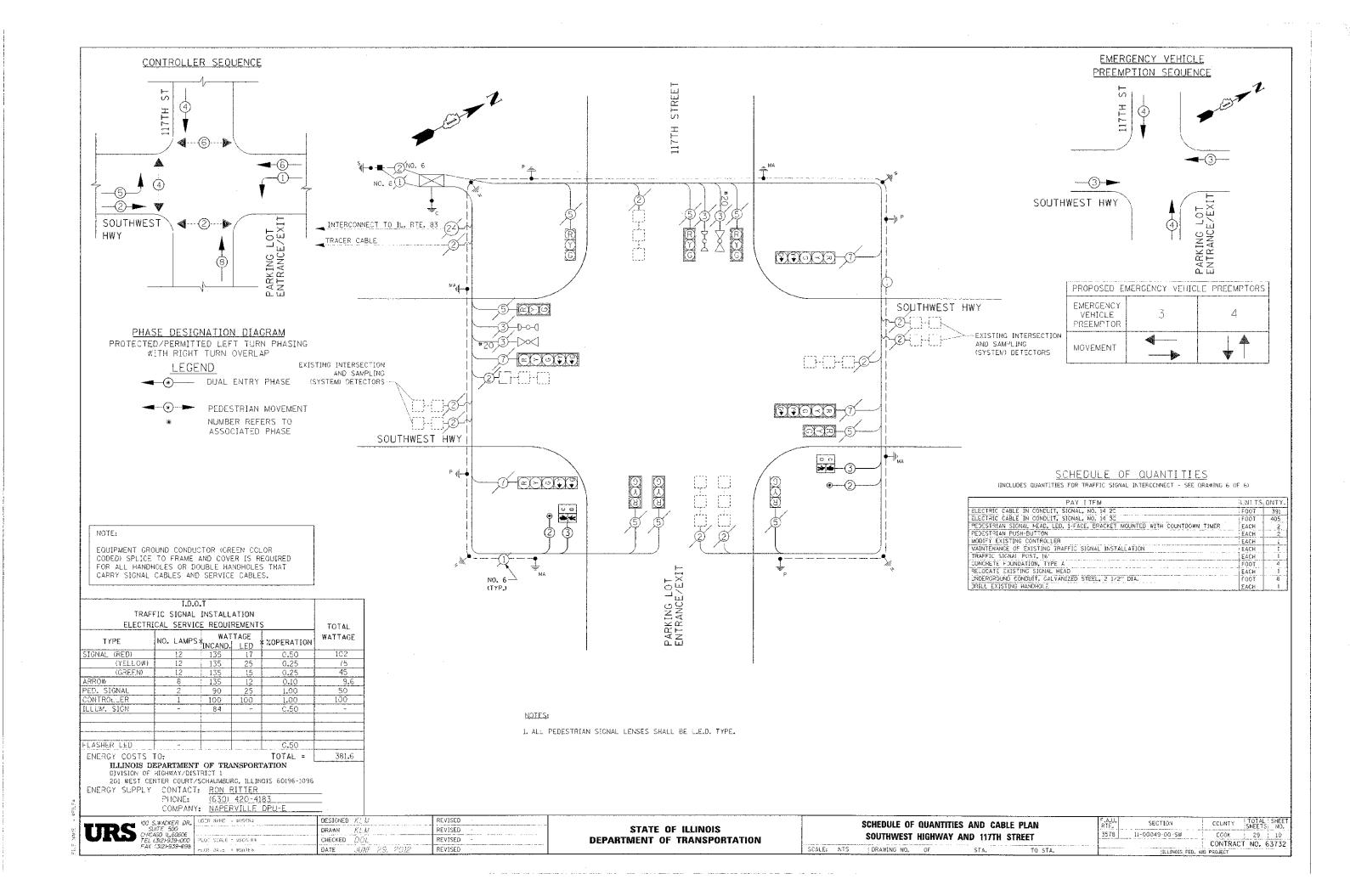
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL PLAN SOUTHWEST HIGHWAY AND 117TH STREET SCALE: 1" = 20' DRAWING NO. OF ST4. TO STA.

COUNTY TOTAL SHEETS NO.

COOK 29 9

CONTRACT NO. 63732 SECTION 3578 11-00049-00-SW

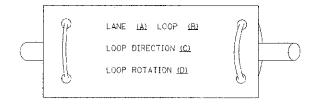


RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC.. AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SUFFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAYEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LASS 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. 119TH ST. ST. MORITZ DR. IL. RTE. 7 (SOUTHWEST HWY) REVISED DESIGNED KLM COUNTY TOTAL SHEET NO.
COOK 29 11
CONTRACT NO. 63732 INTERCONNECT SCHEMATIC SECTION DRAWN KI,M CHECKED DDL STATE OF ILLINOIS REVISED SOUTHWEST HIGHWAY AND 117TH STREET 3578 11-00049-00-SW PLDT SCALE - AMBLAMBOD -/ FT. REVISED DEPARTMENT OF TRANSPORTATION DATE REVISED SCALE: N.T.S. DRAWING NO. OF STA.

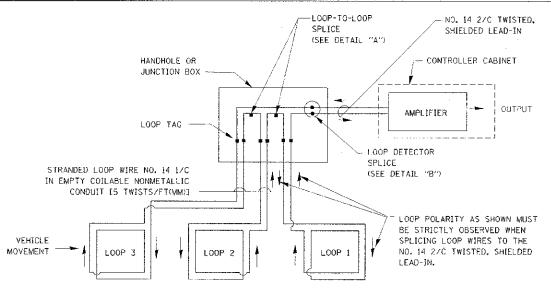
LOOP DETECTOR NOTES

- 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 SCLDERING 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

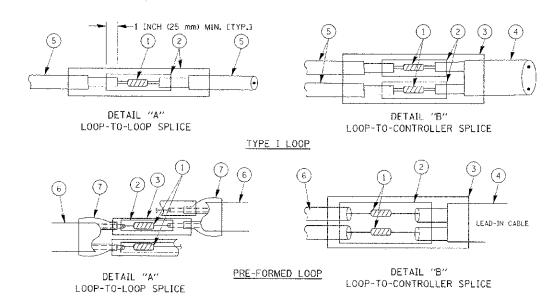


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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.



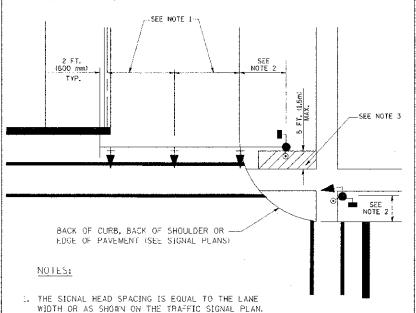
LOOP DETECTOR SPLICE

- 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) NG. 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

FILE NAME =	USER NAME - baueral	DESIGNED - DAD	REVISED -		DISTRICT ONE	F.A.U. SECTION COUNTY TOTAL SHEET
or/sw. world:PWID0T\BAUERUE\aBIØ9315\ta65;	dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS		STEELS: NO.
	PLOT SCALE = 50.2002 1/ N.	CHECKED DAD	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS	3578 11-00049-00-SW COOK 29 12
	PLOT DATE = 11/4/2009	DATE - 10-28-09	REVISED -		SCALE: NONE SHEET NO. 1 OF 6 SHEETS STA. TO STA.	FED. ROAD DIST, NO. 1 ILLINOIS FED. AU PROJECT

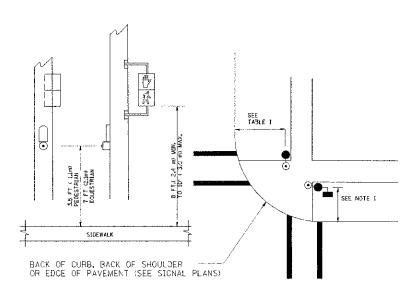
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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



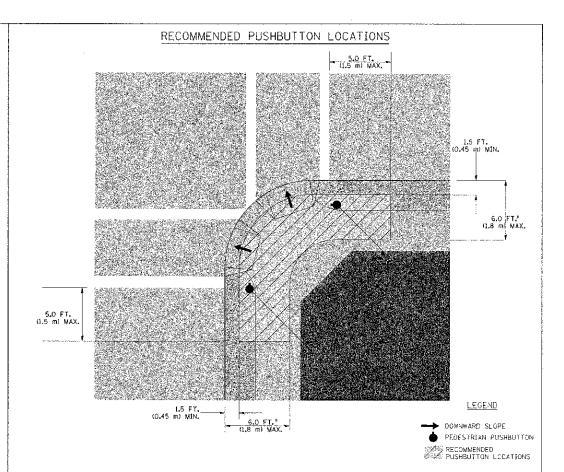
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 5. THE LOCATIONS AND INSTALLATION OF FEDESTRIAN 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.
- 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 MUTCO 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 PUSHBUTIONS, THE PUSHBUTIONS 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.
- 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.

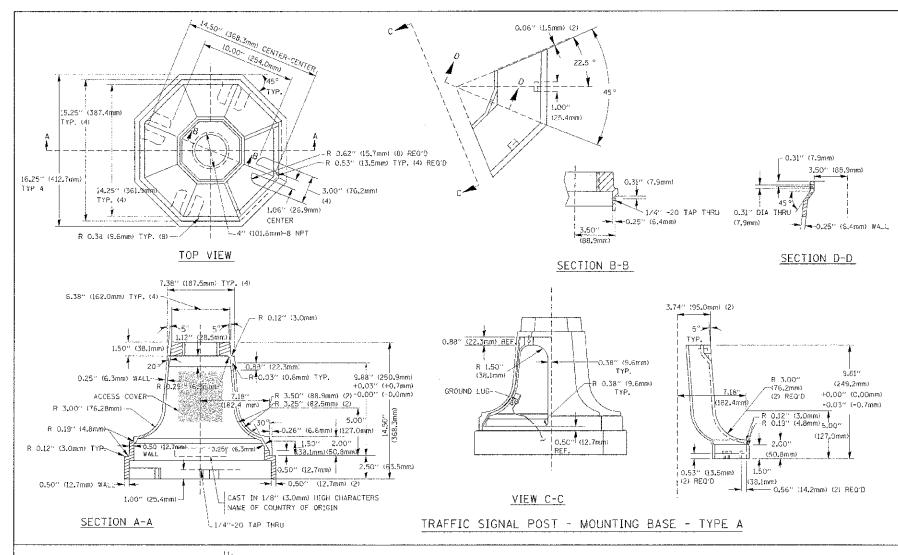
TRAFFIC SIGNAL EQUIPMENT OFFSET

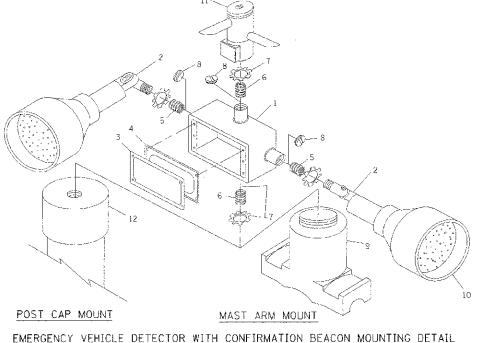
TIVALLE STOWE ENGINEER OF THE							
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)					
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	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 (5,2m)	SHOULDER WIDTH + 2 FT (0.6m), MINEMUM 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	8 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINEMUM 10 FT (3.0m)					
CONTROLLER CABINET	6 F1 (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 SHELT.

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		PLOT SCALE : 50.00000 // IN.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS	TC OC	CONTRACT NO COTOS
		PLOT DATE = 1:/4/29Ø9	DATE - 10-28-09	REVISED -		SCALE: NONE SHEET NO. 2 OF 6 SHEETS STA. TO STA.	FED. ROAD DIST, NO. 1 ILLINOIS FED. AJ	JD PROJECT





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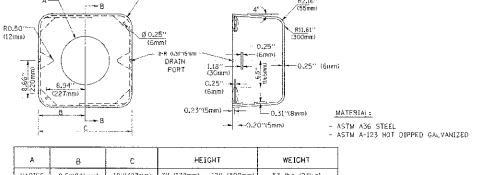
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ITEM NO. IDENTIFICATION 1 DUTLET BOX- GALV. 21 CULIN. (0.000344 CU-M) 2 LAWP HOLDER AND COVER 3 OUTLET BOX COVER 4 RUBBER COVER GASKET 5 REDUCING BUSHING 6 7/119 mm; CLOSE NIPPLE 7 7/119 mm; LOCKNUT 8 7/119 mm; LOCKNUT 8 7/119 mm; HOLE PLUG 9 SADDLE 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 ½("(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER SE SCREWED TO THE TOP OF THE POST CR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



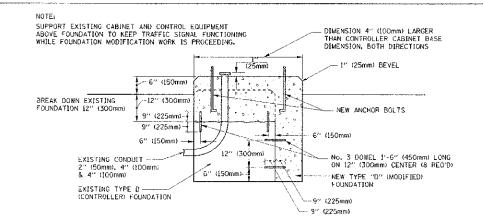
B-B

Α	В	С	HEIGHT	WEICHT
VARIES	9.5"(24lmm)	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) - 32" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37''(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

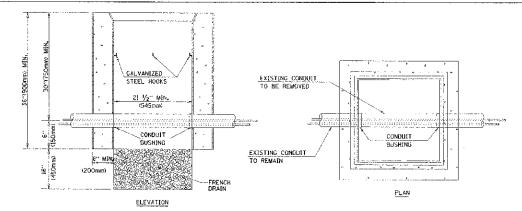
SHROUD

NOTES:

- DIMENSION "A" IS SOUAL 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

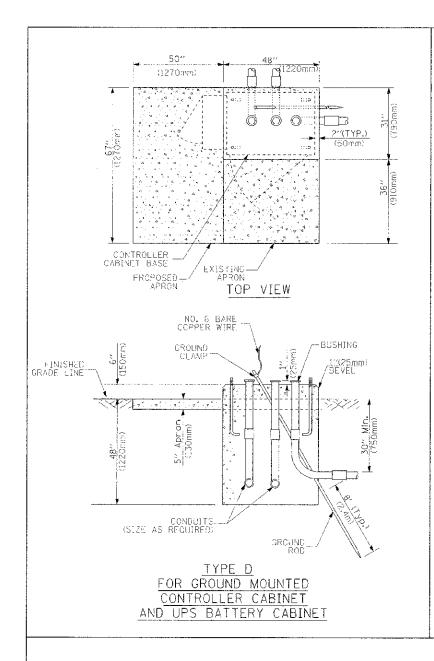


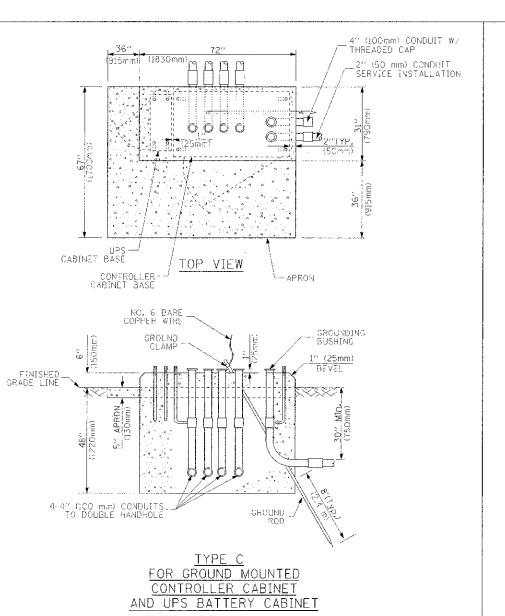
NOTES:

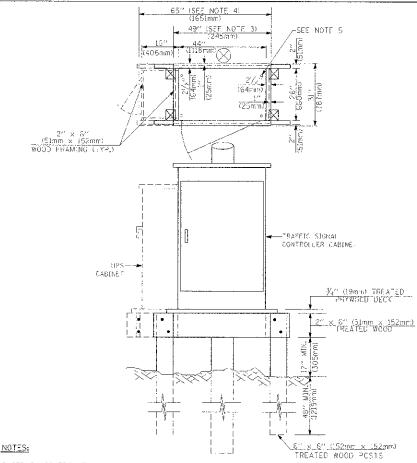
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

DISTRICT ONE	F.A.U. SECTION C	OUNTY TOTAL SHEET SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	3578 11-00049-00-SW (COOK 29 14
	TS-05 CO FED, ROAD DIST, NO. 1 ILLINOIS FED, AID PRO	NTRACT NO. 63732







- 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" (400mm 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. CRILLED HOLES THROUGH THE PLATFORM DASE 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.C	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM VOUNTED SIGNAL HEAD)		
(L - MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END CF 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 FOLE 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, WAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

DEPTH OF FOUNDATION VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0'' (1.2m
TYPE C - CONTROLLER W/ UPS	4'-0'' (1,2m
TYPE D - CONTROLLER	4'-0'' (1.2m
SERVICE INSTALLATION, GROUND MOUNT.	4'-0'' (1.2m

- Foundation Depth Foundation Spiral Olameter Diameter Mast Arm Length 10'-0" (3.0 m) Less than 30' (9.1 m) 30" (750mm) | 24" (600mm) 6(19) Greater than or equal to 30′ (9.1 m) and less than 40′ (12.2 m) 6(19) 30" (750mm) 24" (600mm) 13'-6" (4.1 m) 7(22) 30" (750mm) 11'-0" (3.4 m) 36" (900mm) Greater Iron or equal to 40' 12.2 m) and less than 50' (15.2 m)
 Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m) 13' C" (4.0 m) 36" (900mm) 30" (750mm) 7(22) 15'~G'' (4.6 m) 36" (900mm) 30" (750mm) 12 7(22) Greater than or equal to 56' (16.3 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)
- 5. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 fsf (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 most arm assemblies under 55 feet (16.8 m) shall use 36" (980 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)
- 4. For most arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME :	USER NAME : bowerdl	DESIGNED - DAG	REVISED -			F.A.U. SECTION COUNTY TOTAL SHEET
a:\p+o-k\PWI007\BA6ERCL\d0108335\4665	dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS	DISTRICT ONE	THE SHEETS NU.
	PLOT SCALS / SPLEGGR 1/ IN.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS	3578 11-00049-00-\$W COOK 29 15
	PLOT DATE - 174/2009	DATE - 10-28-09	REVISED -	DEL ATTINICION OF A TOPICON	SCALE: NONE SHEET NO. 5 OF 6 SHEETS STA. TO STA.	TS-05 CONTRACT NO. 63732

TRAFFIC SIGNAL LEGEND REMOVAL FXISTING PROPOSED ITEM REMOVAL EXISTING PROPOSED ITEM REMOVAL EXISTING PROPOSED ITEM ELECTRIC CABLE IN CONDUIT, TRACER. R G:< G(] —(1)— EMERGENCY VEHICLE LIGHT DETECTOR CONTROLLER CABINET \boxtimes $\geq \leq$ NO. 14 1/C, UNLESS NOTED OTHERWISE D-c[⊈] 0-0 ---R><R B► ◆ CONFIRMATION BEACON RAILROAD CONTROL CABINET COAXIAL CABLE ---(c)----—(c)— €0 â C Q COMMUNICATIONS CABINET [QQ] HANDHOLE Ŋ MASTER CONTROLLER EMC MC VENDOR CABLE FOR CAMERA --(V)---H —(ÿ)— HEAVY DUTY HANDHOLE MASTER MASTER CONTROLLER EMMC MMC R COPPER INTERCONNECT CABLE. $\mathbb{Z}\mathbb{Z}$ EPS. EUPS LPS UNINTERRUPTIBLE POWER SUPPLY DOUBLE HANDHOLE -(6)-- NO. 18 3 PAIR TWISTED, SHIELDED RIO 0 JUNCTION BOX SERVICE INSTALLATION, $+3^{-3}$ FIBER OPTIC CABLE ---(25)---(P) POLE OR (G) GROUND MOUNT GALVANIZED STEEL CONDUIT NO. 62,5/125, MM12F TELEPHONE CONNECTION IN TRENCH (T) OR PUSHED (P) R T P []] P. FIBER OPTIC CABLE -(27F)---(P) POLE OR (C) GROUND MOUNT -(24F)... TEMPORARY SPAN WIRE, TETHER WIRE, NO. 82.5/125, MM12F SM12F AND CABLE STEEL MAST ARM ASSEMBLY AND POLE 0 -----FIBER OPTIC CABLE NC. 62,5/125. ALUMINUM MAST ARM ASSEMBLY AND POLE 0 • COMMON TRENCH CT NUMBER OF FIBERS & TYPE TO BE $-\bigcirc$ K -----NOTED ON PLANS) COILABLE NORMETALLIC CONDUIT (EMPTY) CNC STEEL COMBINATION MAST ARM 0-2----GROUND ROD AT (C) CONTROLLER. ASSEMBLY AND POLE WITH LUMINAIRE SYSTEM ITEM C_{II} (H) HANDHOLE, (P) POST, (M) MAST ARM, STEEL COMBINATION MAST ARM OR (S) SERVICE ĭΡ INTERSECTION ITEM PIZ ASSEMBLY AND POLE WITH PTZ CAMERA CONTROLLER CABINET AND REMOVE ITEM SIGNAL POST 0 FOUNDATION TO BE REMOVED \geq RELOCATE ITEM RI. TEMPORARY WOOD POLE (CLASS 5 OR (8) 3 R (S) BETTER) 45 FOOT (13.7m) MINIMUM STEEL MAST ARM POLE AND ABANDON ITEM FOUNDATION TO BE REMOVED. 3 12" (300mm) TRAFFIC SIGNAL SECTION R GLIY WIRE ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED SIGNAL HEAD -0--12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE SIGNAL HEAD CONSTRUCTION STAGES STEEL COMBINATION WAST ARM ASSEMBLY (NUMBERS INDICATE THE CONSTRUCTION STAGE) AND POLE WITH LUMINAIRE AND 0-8----FOUNDATION TO BE REMOVED. SIGNAL HEAD WITH BACKPLATE -1-[:> SIGNAL POST AND FOUNDATION RMF SIGNAL HEAD OPTICALLY PROGRAMMED - Dage SIGNAL FACE TO BE REMOVED FLASHER INSTALLATION •**►**″F INTERSECTION & SAMPLING (S DENOTES SOLAR POWER) TS (IS (SYSTEM) DETECTOR PEDESTRIAN SIGNAL HEAD -Π -[s] SAMPLING (SYSTEM) DETECTOR SIGNAL FACE WITH BACKPLATE. PEDESTRIAN PUSHBUTTON DETECTOR (©) (EXISTING INTERSECTION LOOP DETECTOR "P" INDICATES PROGRAMMED HEAD ₹P} PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR APS EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR DEFINITION SIGN (5) 9 ூ "NO LEFT TURN" 12" (300mm) PEDESTRIAN SIGNAL HEAD PREFORMED INTERSECTION AND SAMPLING าเร WALK/DON'T WALK SYMBOL (SYSTEM) DETECTOR ILLUMINATED SIGN (%) (1) \otimes "NO RIGHT TURN" 12" (300mm) PEDESTRIAN SIGNAL HEAD PREFORMED SAMPLING (SYSTEM) DETECTOR INTERNATIONAL SYMBOL, OUTLINED DETECTOR LOOP, TYPE I 12" (300mm) PEDESTRIAN SIGNAL HEAD RAILROAD SYMBOLS PREFORMED DETECTOR LOOP Р INTERNATIONAL SYMBOL SOLID PEDESTRIAN SIGNAL HEAD, INTERNATIONAL MICROWAVE VEHICLE SENSOR M.S. MID (N) SYMBOL, WITH COUNTDOWN TIMER EXISTING PROPOSED. $\mathbb{Z}^{\mathbb{Z}}$ ∇ VIDEO DETECTION CAMERA RAILROAD CONTROL CABINET II I EXT RADIO INTERCONNECT 411+0 ---VIDEO DETECTION ZONE RAILROAD CANTILEVER MAST ARM XOZ--XX XOX X RADIO REPEATER R Ese ERR RR FLASHING SIGNAL $X \oplus X$ $\mathbf{X} \rightarrow \mathbf{X}$ DENOTES NUMBER OF CONDUCTORS, ELECTRIC PTZ]1 £40 PIZ. PAN. TILT, ZOOM CAMERA --(5)-CABLE NO. 14. UNLESS NOTED OTHERWISE, ---(5)--CROSSING GATE ALL DETECTOR LOOP CABLE TO BE SHIELDED <u>X0X=-</u> X-X-(W) (W)WIRELESS DETECTOR SENSOR CROSSBUCK GROUND CABLE IN CONDUCT 7 >--(1)---1)----WIRELESS ACCESS POINT NO. 6 SQLID COPPER (GREEN) DESIGNED - DAG/ECK REVISED USER WAME of couperd: SECTION COUNTY DISTRICT ONE REVISED STATE OF ILLINOIS SINDW..WORK\PWFROT\SAUFROL\JWIWBSI5\to& DRAWN 29 16 СООК 11-00049-00-SW

DEPARTMENT OF TRANSPORTATION

DAD

10-28-09

REVISED

REVISED

CHECKED

DATE

PLOT SCALE - EGLØZZØ 1/ IN.

PLOT DATE = 11/4/2209

STANDARD TRAFFIC SIGNAL DESIGN DETAILS

TO STA.

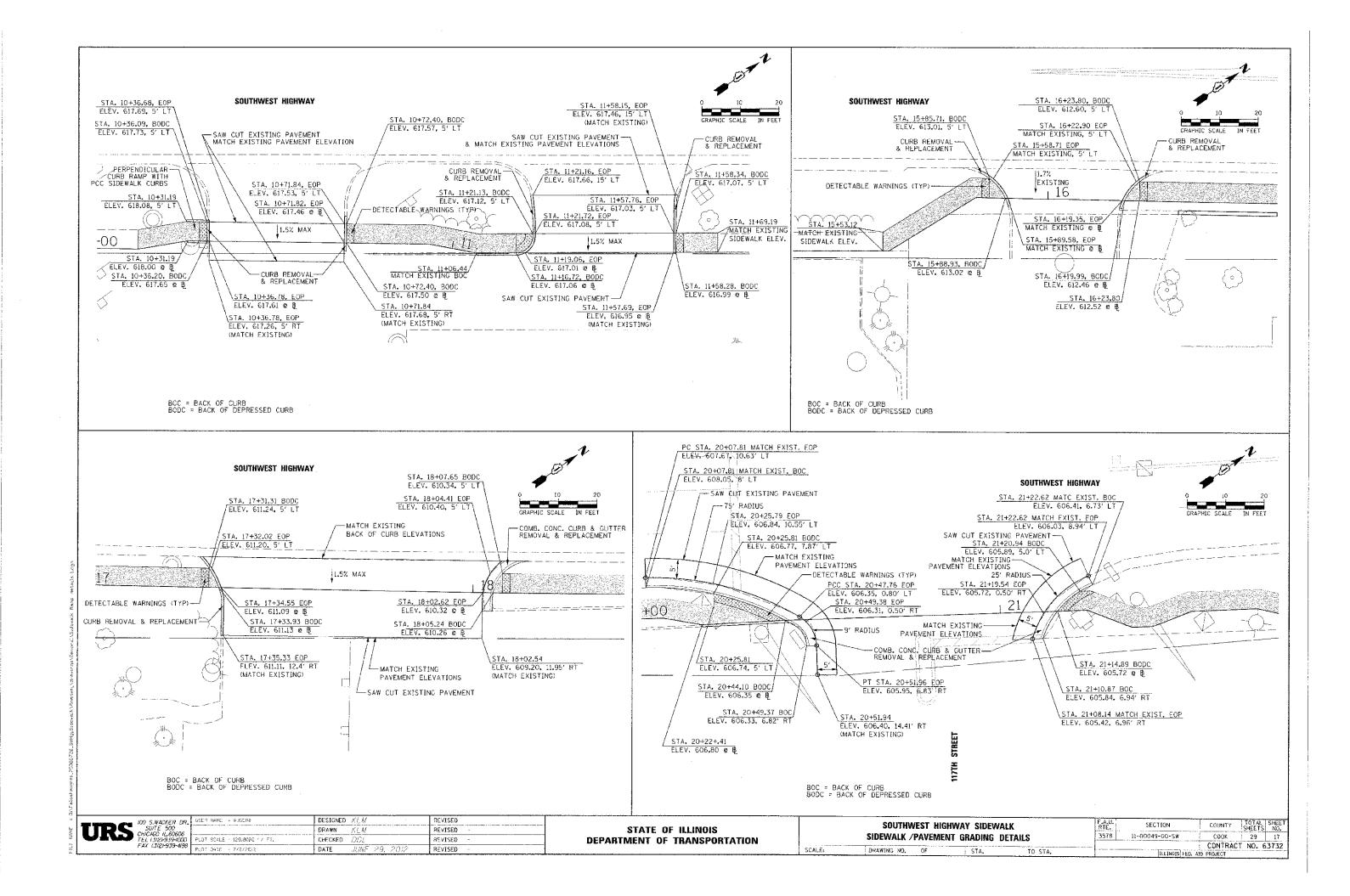
SHEET NO. 6 OF 6 SHEETS STA.

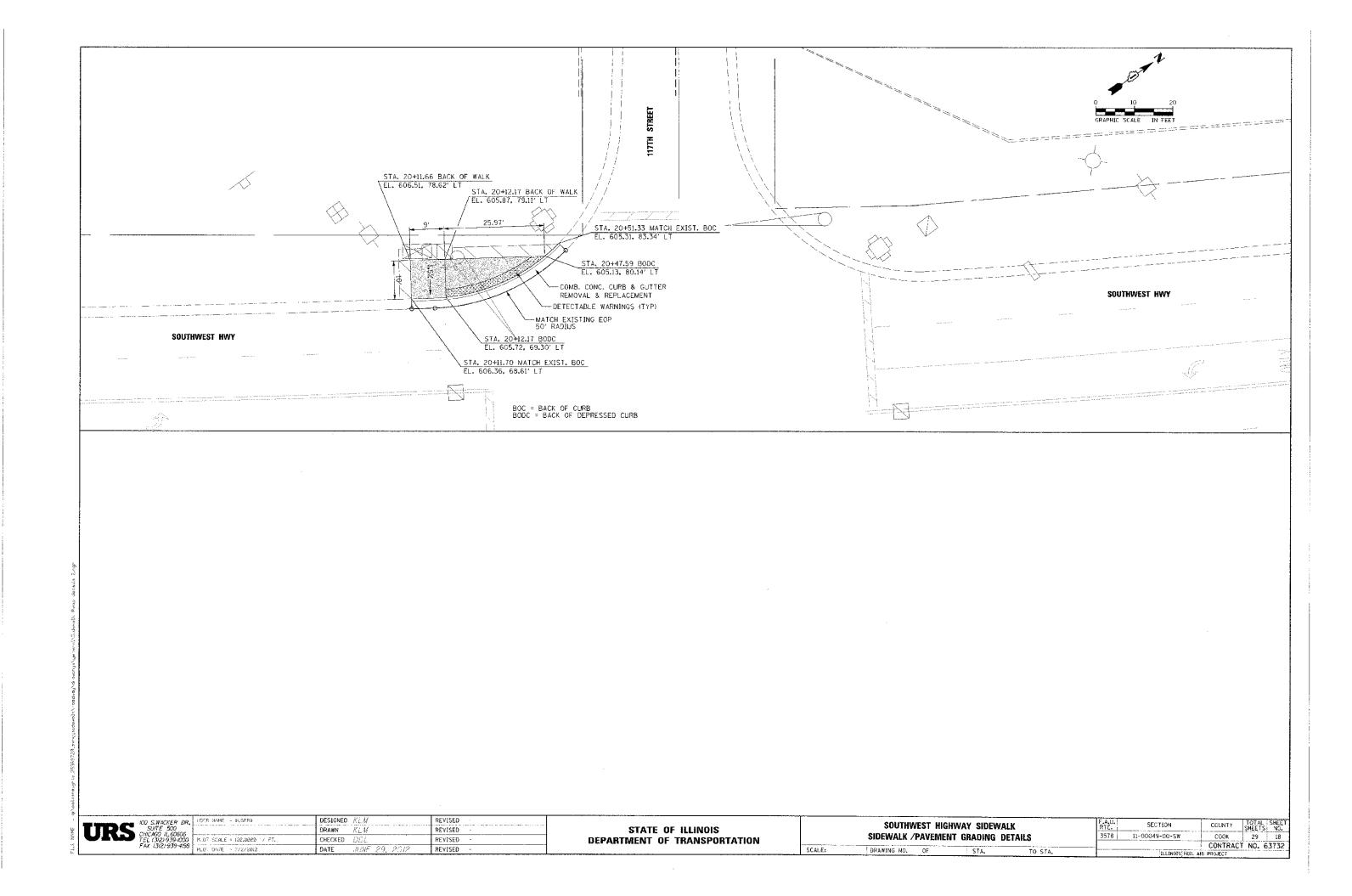
SCALE: NONE

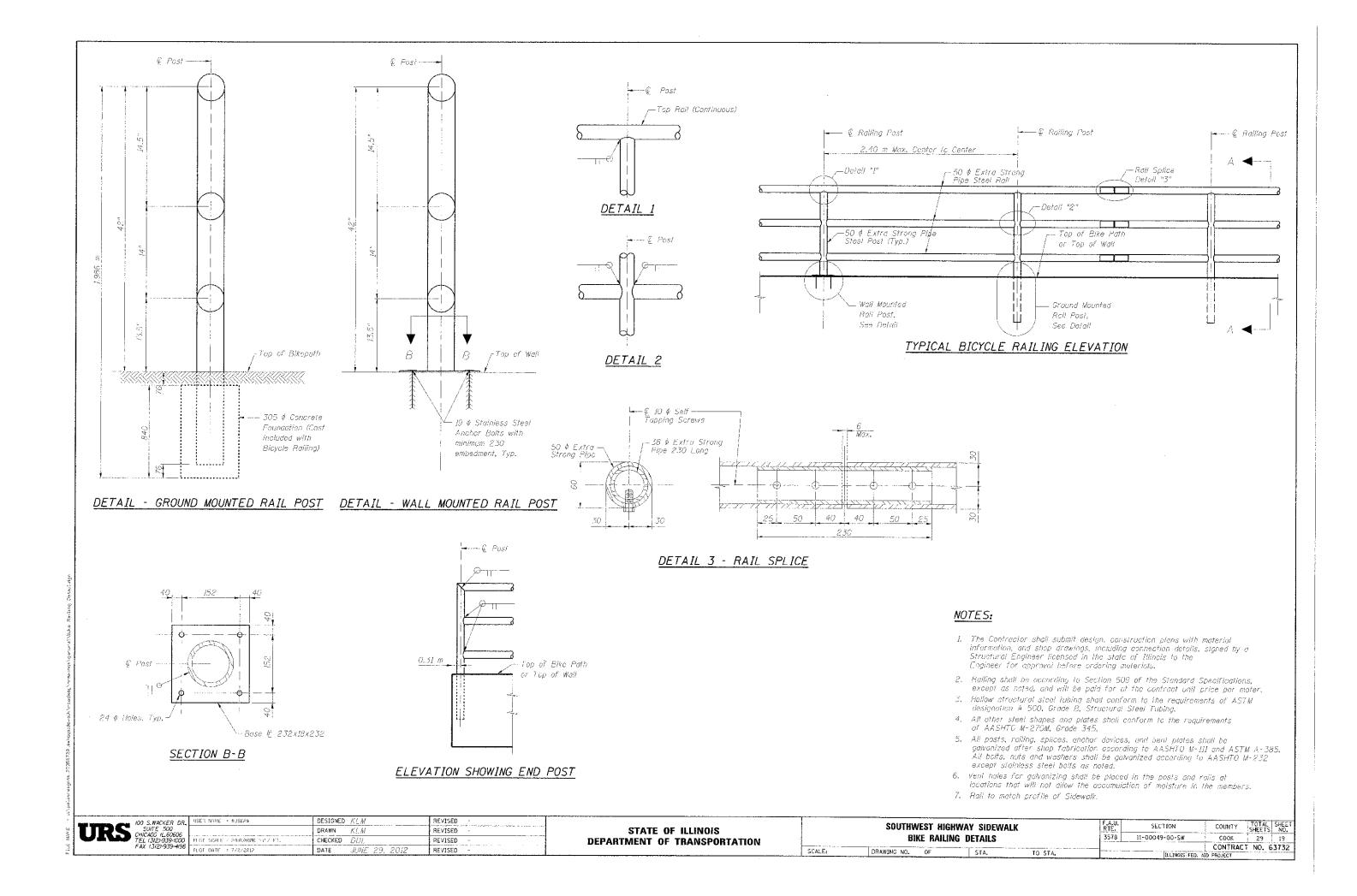
CONTRACT NO. 63732

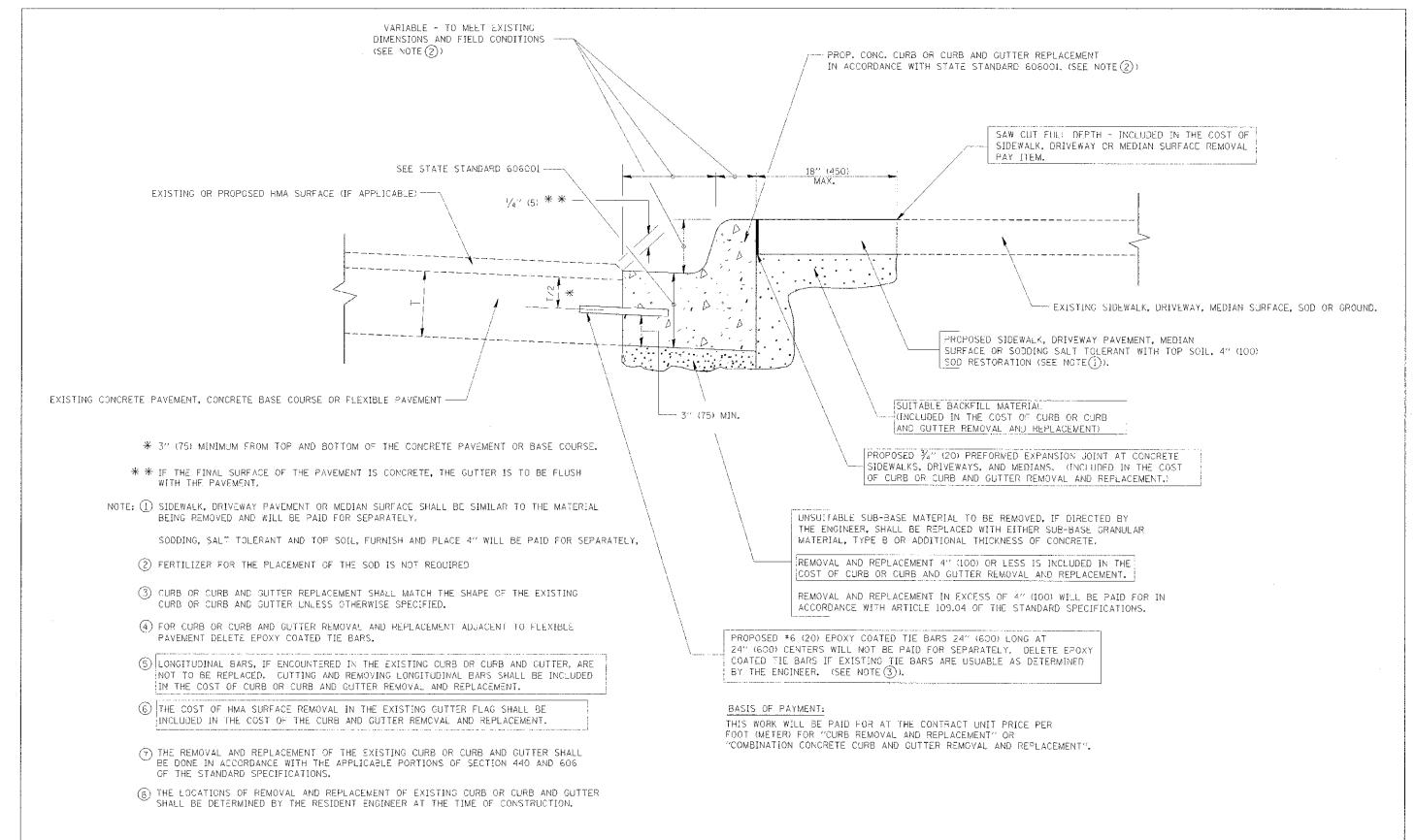
TS-05

FED. ROAD DIST. NO. 1 [ILLINO:S] FED. AID PROJECT





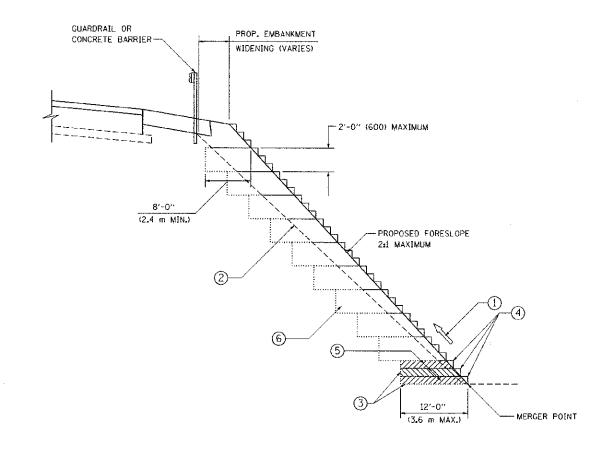




CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME >	USER NAME - drivokosom	DESIGNED A. HOUSEH	REVISED - R. SHAH 10-03-96		ALITE OR GUED AND AUTEEN	F.A. U SECTION COUNTY TOTAL SHEET
oskow, work kpusác thán vokosgo kríftíð	1315\ba 2 4.ug\	DRAWN	REVISED - A. ABBAS C3-21-97	STATE OF ILLINOIS	CURB OR CURB AND GUTTER	3578 11-00049-00-SW COOK 29 20
	PLGT SCALE = 5202000 17 IN.	CHECKED -	REVISED - M. GOMEZ 01-22-01	DEPARTMENT OF TRANSPORTATION	REMOVAL AND REPLACEMENT	BD600-06 (BD-24) CONTRACT NO. 63732
	PLOT DATE (2715/2009)	DATE 03-11-94	REVISED R. BORO 12-15-09		SCALE: NONE SHEET NO. OF 1 SHEETS STA. TO STA.	FED. ROAD DIST, NO. 1 ILLINOIS, FED. AID PROJECT



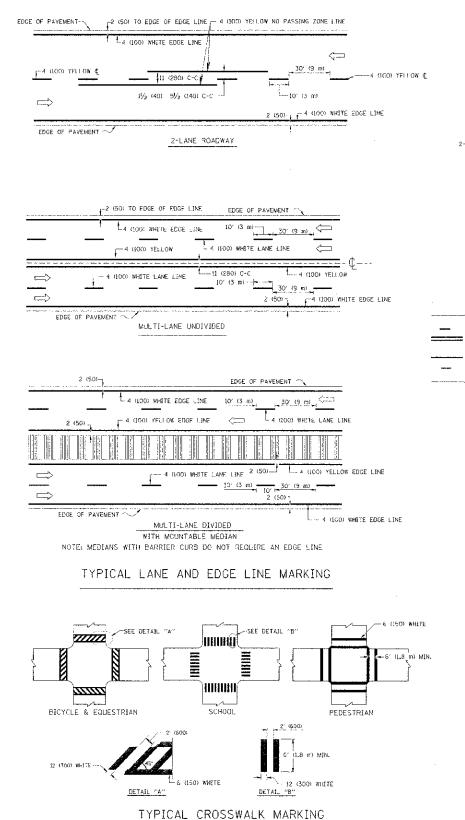
TYPICAL BENCHING DETAIL FOR EMBANKMENT

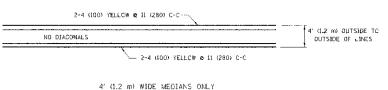
NOTES:

- CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- (2) EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- 3 BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- TRIM TO FINAL SLOPE.
- (5) EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- (6) EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR 3578 THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

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

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED -		DENOMINO DETAIL	F.A.U. SECTION CO	OUNTY TOTAL SHEET
W:\distatd\22x34\bd5l.dgm		DRAWN - CADD	REVISED -	STATE OF ILLINOIS	BENCHING DETAIL	Dile.	SHEETS NO.
İ	PLOT SCALE = FOLGODS 1/ IN.	CHECKED - S.E.B.	REVISED -	DEPARTMENT OF TRANSPORTATION	FOR EMBANKMENT WIDENING	3078 11-00049-00-3VV CC	OOK 29 21
	PLOT DATE = 1/4/2808	DATE - 06-16-04	REVISED -		SCALE: NONE SHEET NO. 1 OF ! SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PRO.	DJECT



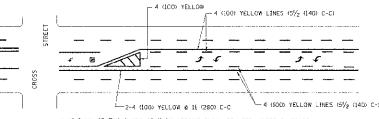


2-4 (100) e 11 (290) C-C (MINIMIM 5)

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

DIAGGNAL, LINE SPACING, 501 (15 m) C-C (1FSS THAN 30MPH (50 km/h)) . 751 (25 m) C-C 30MPH (50 km/h) TO (46MPH (70 km/h)) . 1501 (45 m) C-C (40MPH (50 km/h) (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

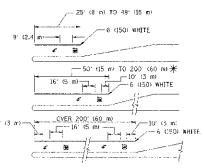


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

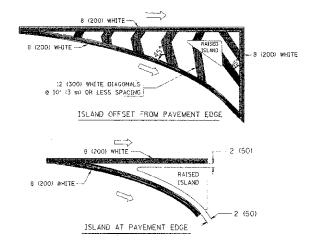


FULL SIZE LETTERS 8: (2.4 m) AND ARROWS SHALL BE USED. \P_1 4REA = 15.6 SO. FT. (1.5 m²) \P_1 4REA = 20.8 SO. FT. (1.9 m²)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 & 4 (\$00)	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) CN 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 GEING EXTENDED	2' (6GO) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (190)	SOLIO	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BASRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	CIJOZ	WHITE	SEE TYPICAL TURN LANS MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) - EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING BETAIL
CROSSWALK LINES PEDESTRIAND A. DIAGONALS (BIKE & EGJESTRIAND B. LONGITUDINAL BARS (SCHGOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (BOD) APANT 2' (BOD) APART SFE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	20F10	WHITE	PLACE 4" 0.2 M; IN AUTZINCE 0- AND PARALLEL TO CROSSWAIK, IF PRESENT. OTHERWISE, P.ACE AT DESTRIBED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINF, WHENE POSIBLE
PAINTED MEDIANS	2 & 4 (100) WITH 12 (300) DIAGONALS 6 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	IR (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS 2 45°	SOLID	WHITE	DIAGUNALS: 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h); 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h); 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LIMES; "RR" IS 6' (1.8 ml LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 APEA OF: "M"53.6 SQ. FT. (0.33 m ²) EACH "X"54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300; Q 45°	SCLID	WHITE - RIGHT YELLOW - LEFT	30 (15 m) C-C (LESS TH4N 30MPH (50 km/h)) 75 (25 m) C-C (30 MP× (50 km/h) T0 45MPH (70 km/h)) 150 (45 m) C-C (0VER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAYEMENT WANKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

	Fill NAME 4	USER NAME is dravokozgo	DESIGNED -	EVERS	REVISED -T. RAMMACHER 10-27-94		DISTRICT OUT	F.A.U. SECTION COUNTY TOTAL SHEET
	os/ps_work/psidos/drivenosgn/d@66335/to	3,dgn	DRAWN -		REVISED -C. JUCIUS 09-09-09	STATE OF ILLINOIS	DISTRICT ONE	SHEETS NO.
		PLOT SCALE = 50.000 17 IN.	CHECKED -		REVISED -	DEPARTMENT OF TRANSPORTATION	TYPICAL PAVEMENT MARKINGS	
		PLOT DATE : 9/9/2009	DATE	03-19-90	REVISED ~		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST, NO. CILLINGIS FED. AID PROJECT
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