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ALIGNMENT, TIES AND BENCHMARKS

ILLINOIS ROUTE 176 CROSS SECTIONS

MAINTENANCE OF TRAFFIC PLAN

IL RTE 176 PLAN AND PROFILE

EROSION CONTROL AND LANDSCAPING PLAN

BRIARWOOD ROAD/OHNSTAD ROAD PLAN AND PROFILE

BRIARWOOD ROAD/OHNSTAD ROAD CROSS SECTIONS

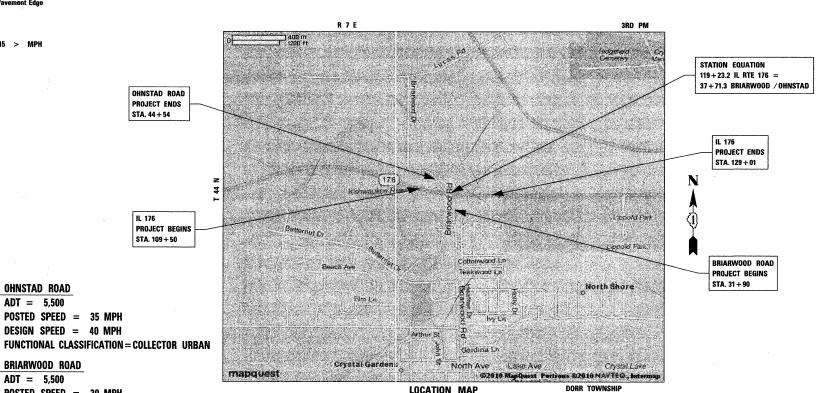
SUMMARY OF QUANTITIES

TYPICAL SECTIONS

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

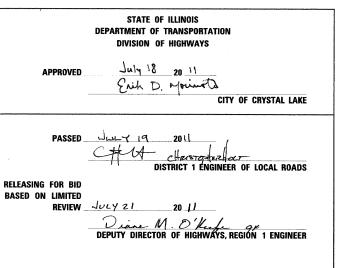
PLANS FOR PROPOSED FEDERAL AID HIGHWAY

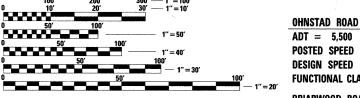
FAP ROUTE 335 ILLINOIS ROUTE 176 AT BRIARWOOD ROAD /OHNSTAD ROAD SECTION 11-00114-00-CH PROJECT NO. M-9003(715) INTERSECTION IMPROVEMENT McHENRY COUNTY JOB NO. C-91-114-11



SECTION COUNTY 335 11-00114-00-CH McHENRY 56 ILLINOIS CONTRACT NO. 6355 +4=60 Total Sheets







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

1-800-892-0123

CONTRACT NO. 63551

CHARLES

AND

BRIARWOOD ROAD ADT = 5.500POSTED SPEED = 30 MPH

DESIGN SPEED = 35 MPH FUNCTIONAL CLASSIFICATION = COLLECTOR URBAN

ILLINOIS ROUTE 176 ADT = 13,700POSTED SPEED LIMIT = 45 MPH

DESIGN SPEED = 50 MPH FUNCTIONAL CLASSIFICATION = OTHER PRINCIPAL ARTERIAL

APPROXIMATE SCALE: 1" = 1200' GROSS AND NET LENGTH OF PROJECT: IL 176

BRIARWOOD/OHNSTAD

1264 ft (0.24 MILE) 3215 ft (0.61 MILE)

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

7/8/2011 LICENSE EXPIRES: 1/30/2011



HAMPTON, LENZINI AND RENWICK, INC.

ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

PROJECT NUMBER: 10.0174.330 DATE : 5/4/2011 GENERAL **GENERAL NOTES**

ALL WORK SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," ADOPTED JANUARY 1, 2007, (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS): THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS," ADOPTED JANUARY 1, 2011; THE LATEST EDITION OF THE 'ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE DETAILS IN THE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

THE CONTRACTOR SHALL COOPERATE WITH THE CITY OF CRYSTAL LAKE IF ANY MUNICIPAL UTILITY IMPROVEMENTS ARE REQUIRED WITHIN THE DURATION OF THE CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT, THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT OR PROTECTION

THE LOCATION ON THE PLANS OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC AND PRIVATE UTILITIES IS APPROXIMATE AND THEIR EXACT LOCATIONS ARE TO BE DETERMINED

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE LITTLITIES 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 OWNER AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS AND REFERENCE MARKERS UNTIL THE OWNER, HIS AGENT OR A PROFESSIONAL LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR HIS WORK. ANY WORK THAT IS VANDALIZED OR OTHERWISE DAMAGED AND JUDGED UNACCEPTABLE BY THE ENGINEER SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

FORTY-EIGHT HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR WILL CALL J.U.L.I.E. (1-800-892-0123) TO HAVE THE

THE CONTRACTOR SHALL AT ALL TIMES PROVIDE PROTECTION FOR TRAFFIC AS REQUIRED BY THE APPLICATION OF TRAFFIC CONTROL DEVICES. THE STANDARD SPECIFICATIONS AND THE PLANS.

- ALL WORK INVOLVING EXISTING SIGNS SHALL BE GOVERNED BY THE FOLLOWING:

 A) SIGNS SHALL NOT BE REMOVED UNTIL THE PROGRESS OF WORK NECESSITATES IT.
- B) EACH SIGN TO BE REMOVED MUST BE RE-ERECTED AT A TEMPORARY LOCATION APPROVED BY THE ENGINEER IN A WORKMANLIKE MANNER AND SHALL BE VISIBLE TO THE TRAFFIC FOR WHICH IT IS INTENDED. ALL SUCH SIGNS SHALL BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING.
- ALL SIGNS SHALL BE RE-ERECTED AT PERMANENT LOCATIONS AS THE COMPLETION OF THE ROADWAY IMPROVEMENTS
- PERMIT. LOCATIONS SHALL BE APPROVED BY THE ENGINEER.

 D) ALL UNUSED SIGNS SHALL BE STORED ON THE JOBSITE FOR PICKUP BY THE STATE OR CITY.
- LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY LOCATIONS TO MAINTAIN PROPER SIGN HEIGHT. IN SUCH CASES, POSTS SHALL BE FURNISHED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

STRUCTURE LOCATIONS GIVEN ON THE PLANS ARE AS FOLLOWS:

- A) FOR STRUCTURES FALLING IN THE CURB & GUTTER TO THE BACK OF CURB.
 B) FOR OTHER LOCATIONS TO THE CENTER OF THE STRUCTURE.

A SOILS REPORT WAS PREPARED FOR THIS PROJECT. A COPY CAN BE VIEWED AT THE CITY OF CRYSTAL LAKE, 100 WEST WOODSTOCK ST., CRYSTAL LAKE, IL.

CONSTRUCTION

ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR DRAINAGE STRUCTURES WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT.

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN IN AN OPERATING CONDITION TEMPORARY OUTLETS AND CONNECTIONS FOR ALL DRAINS, SEWERS AND CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES WHICH HAVE THE CAPACITY TO RECEIVE AND DISCHARGE THE STORM FLOWS NORMALLY ACCEPTED AND RELEASED BY THE EXISTING FACILITIES. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT.

THE COST OF INTERCONNECTIONS BETWEEN THE PROPOSED AND EXISTING SEWER SYSTEMS AND PROPOSED AND EXISTING WATER MAIN SHALL BE INCLUDED IN THE VARIOUS UNIT PRICES OF THE PROPOSED UNITS OF WORK.

ALL FRAMES WITH CLOSED LIDS TO BE FURNISHED AS PART OF THIS CONTRACT SHALL HAVE CAST INTO THE LID THE WORD "STORM," "SANITARY" OR "WATER," AS APPROPRIATE TO THE TYPE OF STRUCTURE INVOLVED. ALL STORM SEWER FRAMES AND GRATES SHALL INCLUDE AN ENVIRONMENTAL NOTICE "DUMP NO WASTE, DRAINS TO WATERWAYS".

TRENCH BACKFILL QUANTITIES HAVE BEEN COMPUTED IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, BUREAU OF CONSTRUCTION TRENCH BACKETH TABLE, BASED ON PLAN INVERT DEPTH FROM SUBGRADE. ANY TRENCH BACKFILL REQUIRED IN EXCESS OF THE QUANTITY ESTABLISHED ABOVE, INCLUDING BEDDING MATERIAL, SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

IF THE CONTRACTOR CHOOSES TO DISPOSE OF UNCANTAMINATED SOIL OR UNCONTAMINATED SOIL MIXED WITH CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) AT A CCDD FILL OPERATION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM ALL NECESSARY FIELD AND LABRATORY ANALYSIS AND TO OBTAIN THE LICENSED PROFESSIONAL ENGINEER'S CERTIFICATION REQUIRED AS PER PUBLIC ACT 96-1416 TO USE THE SITE. NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

ANY MATERIALS CONSIDERED SHITABLE FOR SALVAGE BY THE ENGINEER SHALL BE STORED WITHIN THE RIGHT-OF-WAY FOR LATER REMOVAL BY THE STATE OR CITY. UNUSABLE MATERIALS SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. TRENCH BACKFILL AND/OR PAVEMENT REPLACEMENT WILL BE PAID FOR WHEN THE WORK LIES UNDER EXISTING PAVEMENT AREAS.

RENCHES ACROSS PAVED SURFACES SHALL BE PATCHED WITH EITHER PERMANENT OR TEMPORARY PAVEMENT AT THE END OF EACH WORK DAY. TEMPORARY PATCHING OF TRENCHES INCLUDING REMOVAL WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE ITEM PLACED IN THE TRENCH.

THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT. ANY COST INCURRED BY THE CONTRACTOR TO MEET THIS REQUIREMENT THAT IS NOT COVERED BY A SPECIFIC PAY ITEM WILL BE INCLUDED IN THE COST OF THE CONTRACT.

A. SAWCUTTING REQUIRED FOR CLASS D PATCHES SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE

B. LONGITUDINAL SAW CUTTING FOR REMOVAL TO ACCOMODATE WIDENING, AS SHOWN ON THE PLANS, SHALL BE PAID FOR SEPARATELY.

THE EXISTING ASPHALT SURFACE SHALL BE SAW CUT TO A DEPTH OF TWO INCHES AT THE LIMITS OF THE PROJECT.

WHERE NEW WORK IS PROPOSED TO MEET EXISTING FEATURES, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD CHECK ALL DIMENSIONS AND ELEVATIONS AND NOTIFY THE ENGINEER OF DISCREPANCIES BEFORE PROCEEDING WITH

ANY SHEETING AND/OR SHORING USED ON THIS IMPROVEMENT SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

SEDIMENTATION AND EROSION CONTROL

SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL BE UTILIZED IN CONSIDERATION OF TIME OF YEAR, SITE CONDITIONS AND THE SUITABILITY OF TEMPORARY VERSUS

SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC

DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN FOURTEEN CALENDAR DAYS OF THE END OF THE ACTIVE HYDROLOGIC DISTURBANCE.

ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE EROSION

ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY DAYS AFTER THE FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.

ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED BY THE CONTRACTOR AS REQUIRED BY PLAN NOTES.

IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH EFFECTIVE SEDIMENT CONTROL MEASURES (e.g., SEDIMENT TRAPS, SEDIMENT BASINS OR OTHER APPROPRIATE MEASURES). ADDITIONAL SEDIMENT CONTROL MEASURES SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.

	l
MIXTURE TYPE	AIR VOIDS
PAVEMENT RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70; (IL 9.5mm); 2"	4% @ 70 GYR
FULL-DEPTH PAVEMENT	l
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70; (IL 9.5mm); 2"	4% @ 70 GYR
HOT-MIX ASPHALT BASE COURSE, (HMA BINDER IL-19mm); 10.25" OR	4% @ 50 GYR (IN 4 LIFTS)
PATCHING	I
CLASS D PATCHES (HMA BINDER IL-19mm), 11"	4% @ 70 GYR (IN 4 LIFTS)
LEVELING	
LEVELING BINDER (MACHINE METHOD) N70 (IL 9.5mm)	4% @ 70 GYR
HMA DRIVEWAY PAVEMENT, 8"	
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50; (IL 9.5mm); 2"	4% @ 50 GYR
HOT-MIX ASPHALT BASE COURSE, (HMA BINDER IL-19mm); 6"	4% @ 50 GYR (IN 3 LIFTS)
HMA SHOULDERS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70; (IL 9.5mm); 2"	4% @ 70 GYR
HOT-MIX ASPHALT SHOULDERS, (HMA BINDER IL-19mm); 6"	4% @ 70 GYR (IN 3 LIFTS)

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

SCALE:

DISTRICT ONE SPECIAL PROVISIONS, FOR "PERCENT OF RAPP" SEE DISTRICT ONE SPECIAL PROVISIONS.

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES AND LEGEND IL ROUTE 176 AND BRIARWOOD RD. SHEET NO. OF SHEETS STA. TO STA.

SECTION TOTAL SHEE 11-00114-00-CH MCHENRY CONTRACT NO. 63551

(C) EXISTING DECIDUOUS TREE 0 EXISTING DRAINAGE MANHOLE • PROPOSED DRAINAGE MANHOLE PROPOSED CATCH BASIN PROPOSED INLET EXISTING STORM SEWER PROPOSED STORM SEWER EXISTING UNDERGROUND GAS EXISTING UNDERGROUND WATER Ø EXISTING LIGHT STANDARD EXISTING HANDHOLE MAIL BOX EXISTING POWER POLE SEWER STRUCTURE AND PIPE NOTATION FRAME & GRATE/LID TYPE STRUCTURE TYPE-65+43 21' RT-STATION & OFFSET** TOP OF FRAME (TF). 987.65 CURB (TC) ELEVATION OR EDGE OF PAVEMENT (EOP) INVERT DIRECTION INV S 985.30 -1& ELEVATION PIPE DIAMETER √18" SS TY2 CLASS A ----MATERIAL CLASS LENGTH ------113' @ 0.72% ----TRENCH BACKFILL TRENCH BACKETLL ** NOTE: -OFFSET FOR ALL STRUCTURES IS TO CENTER OF STRUCTURE. STRUCTURE ADJUSTMENT/RECONSTRUCTION/REMOVAL NOTATION FRAME & GRATE/LID TYPE

LEGEND

EXISTING BUSH

0

DENOTES STRUCTURE TO BE FILLED R DENOTES STRUCTURE TO BE REMOVED

> —PAVEMENT REPLACEMENT -AREA IN SQUARE YARDS

HMA SURFACE REMOVAL

HMA BASE COURSE

						CONSTRUCTION CODE					
						0004	STP 0021	FUNDS 0042	0021	0021	
PI#	ITEM DESCRIPTION	SPECIAL PROVISION	SPECALTY ITEM	UNIT	TOTAL QUANTITY	ROADWAY	TRAFFIC SIGNALS*	TRAINEES	HIGHWAY LIGHTING	EMERGENCY VEHICLE PREEMPTION	
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)			UNIT	281	281	Santa Single in the case of th				
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)			UNIT	465	465					
20200100	EARTH EXCAVATION			CU YD	6907	6907					
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL			CU YD	573	573		1			
20400800	FURNISHED EXCAVATION			CU YD	570	570					
20700220	POROUS GRANULAR EMBANKMENT			CU YD	573	573					
20800150	TRENCH BACKFILL			CU YD	453	453					
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION			SQ YD	6365	6365				2	
21101615	TOPSOIL FURNISH AND PLACE, 4"			SQ YD	14231	14231		-			
21301072	EXPLORATION TRENCH 72" DEPTH			FOOT	100	100					
21400100	GRADING AND SHAPING DITCHES	*		FOOT	300	300					
25000210	SEEDING, CLASS 2A		X	ACRE	2.2	2.2		-			
25000310	SEEDING, CLASS 4		X	ACRE	0.6	0.6					
	SEEDING, CLASS 4B		X	ACRE	0.2	0.2					
	NITROGEN FERTILIZER NUTRIENT		X	POUND	270	270					
	POTASSIUM FERTILIZER NUTRIENT		X	POUND	270	270				2	
	EROSION CONTROL BLANKET		X	SQ YD	14231	14231				:	
28000250	TEMPORARY EROSION CONTROL SEEDING			POUND	600	600					
	TEMPORARY DITCH CHECKS	*		FOOT	84	84					
	PERIMETER EROSION BARRIER			FOOT	6020	6020					
	INLET FILTERS		-	EACH	6	6		<u> </u>			
	STONE RIPRAP, CLASS A1			SQ YD	8	8					
	AGGREGATE BASE COURSE, TYPE B 4"			SQ YD	2909	2909					
	HOT-MIX ASPHALT BASE COURSE, 10 1/4"			SQ YD	4889	4889		- ,			
	HOT-MIX ASPHALT BASE COURSE WIDENING, 10 1/4"			SQ YD							
					1101	1101					
	AGGREGATE FOR TEMPORARY ACCESS			TON	200	200					
	BITUMINOUS MATERIALS (PRIME COAT)			GALLON	1322	1322					
	AGGREGATE (PRIME COAT)			TON	53	53					
	LEVELING BINDER (MACHINE METHOD), N70			TON	154	154					
	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT			SQ YD	48	48					
	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70			TON	1587	1587					
44000200	DRIVEWAY PAVEMENT REMOVAL			SQ YD	955	955					
	COMBINATION CURB AND GUTTER REMOVAL			FOOT	85	85					
44201777	CLASS D PATCHES, TYPE II, 11 INCH			SQ YD	1408	1408					
44213200	SAW CUTS			FOOT	5610	5610		· · · · · · · · · · · · · · · · · · ·			

^{* 50%} STATE, 25% CITY, 25% DORR TOWNSHIP

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED	-
P:\2010\100174\cad\phase 2\dwg\100174-sh	t-cover.dgn	DRAWN -	REVISED	-
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED	-
	PLOT DATE = 8/9/2011	DATE -	REVISED	_

	SUMMARY OF				
	11.	. ROUTE	176 AND	BRIARWOOD	RD.
SCALE:	SHEET	NO. OF	SHEETS	STA.	TO ST

F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
335	11-00114-00-CH	- 1	MCHENRY	56	3
			CONTRAC	r NO. (63551
	ILLINOIS F	ED. AID	PROJECT		

Pis TEM DESCRIPTION				CONSTRUCTION CODE STP FUNDS							
PIE ITEM DESCRIPTION PROVIDED TEMPO TEM							0004			0021	0021
### ##################################	PI#	ITEM DESCRIPTION			UNIT		ROADWAY		TRAINEES		VEHICLE
### ### ##############################	44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT			FOOT	5535	5535				
STIESTOR SPIFE CLAVERITY CLASS A. TYPE 115' FOOT SOO GSC	48100700	AGGREGATE SHOULDERS, TYPE A 8"			SQ YD	2166	2166				
Separation Price Culverits, CLASS A. TYPE 1 IS' FOOT 138 138	48203029	HOT-MIX ASPHALT SHOULDERS, 8"			SQ YD	2909	2909				
SALES PIPE CULVERTS, CLASS A, TYPE 1 IF	50105220	PIPE CULVERT REMOVAL			FOOT	620	620				
5412566 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 19" 5412566 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 19" 5412566 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 29" 541256 CACH 4 4 4 541256 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 29" 541256 CACH 3 3 3 541256 PRECAST REINFORCED CONCRETE FLARED END SECTION 29" 541256 CACH 13 13 541256 CACH 13 13 541256 CACH 13 13 541250 CACH 14 4 4 541250 CACH 15 13 541250 CACH 15 15 541250 CACH 15	542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"			FOOT	138	138				
SATINGS PRECAST REINFORCED CONCRETE FLARED END SECTION 16" SACH 4 4	542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"			FOOT	48	48		2 22		
\$421366 PRECAST REMFORCED CONCRETE FLARED END SECTION 10' \$4247100 GRATING FOR CONCRETE FLARED END SECTION 20' \$43400230 STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 12' \$4300230 STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 12' \$4300230 STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 12' \$4300230 STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2' \$4300230 FIRE HORANTS 10 BE MOVED \$43400230 FIRE HORANTS 10 BE MOVED \$43400230 FIRE HORANTS 10 BE MOVED \$43400230 FIRE HORANTS 10 BE ADJUSTED \$44400230 FIRE HORANTS 10 BE	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"			EACH	13	13				
\$242100 GRAINIS FOR CONCRETE FLARED END SECTION 15" \$4421130 GRAINIS FOR CONCRETE FLARED END SECTION 15" \$4421131 GRAINIS FOR CONCRETE FLARED END SECTION 15" \$4421132 GRAINING FOR CONCRETE FLARED END SECTION 15" \$4441133 13	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"			EACH	4	4				
\$222118 GRATING FOR CONCRETE FLARED END SECTION 16" . EACH 4 4 4	54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"			EACH	3	3				
\$222118 GRATING FOR CONCRETE FLARED END SECTION 16" . EACH 4 4 4	54247100	GRATING FOR CONCRETE FLARED END SECTION 15"	*		EACH	13	13				
S4227130 GRATING FOR CONCRETE FLARED END SECTION 24" EACH 3 3 3		GRATING FOR CONCRETE FLARED END SECTION 18"	*		EACH	4	4				
\$500,03300 \$TORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 15" . FOOT 107 107 107 107 107 107 107 107 107 107		GRATING FOR CONCRETE FLARED END SECTION 24"			EACH	3	3				
SOLUTION STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 116" POOT 107 10		STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 15"	*		FOOT	194	194				
\$5002350 \$TORM SEWERS, RUBBER GASKET, CLASS A, TYPE 124"		STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 18"	*		FOOT	107	107				J
STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"			*								
STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 24" FOOT 162 162			*							· .	
Section Sire Hydranis to be moved Section Sire Hydranis to be adjusted Section Sire Hydranis to be adjusted Section Sect			*								
Section Sect			*								
60100060 CONCRETE HEADWALLS FOR PIPE DRAINS EACH 13 13 FOOT 900 900 60108100 PIPE UNDERDRAINS 4" (SPECIAL) FOOT 270 270 60108300 PIPE UNDERDRAINS 5" (SPECIAL) FOOT 300 300 60200105 CATCH BASINS, TYPE A, 4-DIAMETER, TYPE 1 FRAME, OPEN LID 6020305 CATCH BASINS, TYPE A, 4-DIAMETER, TYPE 1 FRAME, CLOSED LID 60203805 CATCH BASINS, TYPE A, 4-DIAMETER, TYPE 1 FRAME, OPEN LID 60203805 CATCH BASINS, TYPE A, 5-DIAMETER, TYPE 1 FRAME, OPEN LID 60203800 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6 12 FOOT 80 80 63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS X FOOT 208 208 63100045 TRAFFIC BARRIER TERMINAL, TYPE 2 X EACH 1 1 63200310 GUARDRAIL REMOVAL 65200310 GUARDRAIL REMOVAL 65200350 ENGINERER SFIELD OFFICE, TYPE B CAL MO 5 5		FIRE HYDRANTS TO BE ADJUSTED	*		EACH	1					
60107600 PIPE UNDERDRAINS 4"											
FOOT											
FOOT SOON FOOT SOON SOON FOOT SOON SOON FOOT											
G0200105 CATCH BASINS, TYPE A, 4-DIAMETER, TYPE 1 FRAME, OPEN LID EACH 3 3 3			*								
60200205 CATCH BASINS, TYPE A, 4-DIAMETER, TYPE 1 FRAME, CLOSED LID EACH 1 1 1 1 1 1 1 1 1			*								
60203805 CATCH BASINS, TYPE A, 5-DIAMETER, TYPE 1 FRAME, OPEN LID EACH 3 3 3 60603800 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 FOOT 80 80 80 63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS X FOOT 208 208 208 63000003 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS X FOOT 565 56					EACH	3	3			·	
60603800 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 FOOT 80 80	60200205	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID			EACH	1	1				
63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	60203805	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID			EACH	3	3				
63000003 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS X FOOT 565 565 565 565 563 563 563 563 563 563	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12			FOOT	80	80				
63100045 TRAFFIC BARRIER TERMINAL, TYPE 2 X EACH 1 1 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS		X	FOOT	208	208				
63200310 GUARDRAIL REMOVAL FOOT 767 767 67000500 ENGINEER'S FIELD OFFICE, TYPE B CAL MO 5 5 67100100 MOBILIZATION L SUM 1 1	63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS		X	FOOT	565	565				3
67000500 ENGINEER'S FIELD OFFICE, TYPE B CAL MO 5 5 5 6 67100100 MOBILIZATION L SUM 1 1 1	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2		Х	EACH	1	1				
67100100 MOBILIZATION L SUM 1 1	63200310	GUARDRAIL REMOVAL			FOOT	767	767				
	67000500	ENGINEER'S FIELD OFFICE, TYPE B			CAL MO	5	5			:	
66900200 NON-SPECIAL WASTE DISPOSAL X CU YD 227 227	67100100	MOBILIZATION			LSUM	1	1				
	66900200	NON-SPECIAL WASTE DISPOSAL		Х	CU YD	227	227				

* 50% STATE, 25% CITY, 25% DORR TOWNSHIP

FILE NAMÉ =	USER NAME = \$USER\$	DESIGNED ~	REVISED -
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	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
	PLOT DATE = 8/9/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	H	L ROUTE	176	AND	BRIARWOOD	RD.	
SCALE:	SHEET	NO. OF		SHEETS	STA.	ТО	STA.

CONSTRUCTION CODE

F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
335	11-00114-00-C	McHENRY	56	3A	
			CONTRAC	T NO.	53551
	ILLINOI	FED. AI	D PROJECT		

						STP FUNDS				
						0004	0021	0042	0021	0021
PI#	ITEM DESCRIPTION	SPECIAL PROVISION	SPECALTY ITEM	UNIT	TOTAL QUANTITY	ROADWAY	TRAFFIC SIGNALS*	TRAINEES	HICH/WAY	EMERGENCY VEHICLE PREEMPTION
66900450	SPECIAL WASTE PLANS AND REPORTS		X	L SUM	1	1				
66900530	SOIL DISPOSAL ANALYSIS		X	EACH	1	1				
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201			L SUM	1	1				
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306			L SUM	1	1				
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326			LSUM	1	1				
70300100	SHORT TERM PAVEMENT MARKING		X	FOOT	884	884				
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"		Х	FOOT	25608	25608				
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"		X	FOOT	96	96				
72000100	SIGN PANEL - TYPE 1		Х	SQ FT	33		33			
72000200	SIGN PANEL - TYPE 2		X	SQ FT	20		20			
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A			EACH	1	1				
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A			EACH	1	1				
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS		Х	SQ FT	291	291				•
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"		Х	FOOT	14975	14975				
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"		X	FOOT	1171	1171			,	
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"		Х	FOOT	271	271				
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"		x	FOOT	562	562				
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"		X	FOOT	182	182				
80400100	ELECTRIC SERVICE INSTALLATION		X	EACH	1	ļ			1	
80500020	SERVICE INSTALLATION - POLE MOUNTED		X	EACH	1		1			
81000500	CONDUIT IN TRENCH, 1 1/2" DIA., GALVANIZED STEEL		Х	FOOT	2700				2700	
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL		Х	FOOT	651		482			169
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL		Х	FOOT	252		252		7	***************************************
81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL		X	FOOT	113		113			
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL		Х	FOOT	60		60			
81018400	CONDUIT PUSHED, 1 1/2" DIA., GALVANIZED STEEL		X	FOOT	220		220		A	
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL		Х	FOOT	210		210			
	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL		X	FOOT	55		55			
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL		X	FOOT	335		335			
81400200	HEAVY-DUTY HANDHOLE		X	EACH	14		13			1
	DOUBLE HANDHOLE		Х	EACH	1		1		¥ 	
	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	_	X	FOOT	8816				8816	
	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6		Х	FOOT	3070				3070	
81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2		Х	FOOT	354			,	354	

* 50% STATE, 25% CITY, 25% DORR TOWNSHIP

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	PLOT DATE = 8/9/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		SUM	MARY OF	QUANTITIES	
	H	L ROUTE	176 AND	BRIARWOOD	RD.
SCALE:	SHEET	NO. OF	SHEETS	STA.	TO STA.

CONSTRUCTION CODE

	F.A.P. RTE.	SECTION		T	COUNTY	TOTAL SHEETS	SHEE NO.
	335	11-00114-00-CH		T	McHENRY	56	3B
_				T	CONTRACT	NO.	63551
		ILLINOIS F	ED.	AID	PROJECT		

					CONSTRUCTION CODE STP FUNDS							
						0004	0021	0042	0021	0021		
	ITEM DESCRIPTION	SPECIAL PROVISION	SPECALTY ITEM	UNIT	TOTAL QUANTITY	ROADWAY	TRAFFIC SIGNALS*	TRAINEES	HIGHWAY LIGHTING	EMERGENCY VEHICLE PREEMPTION		
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK		X	FOOT	3405		686		2550	169		
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	*	Х	EACH	16		-		16			
82500360	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 100AMP	*	Х	EACH	1			-	1			
83008600	LIGHT POLE, ALUMINUM, 40 FT. M.H., 15 FT. MAST ARM		Х	EACH	16				16			
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER		Х	FOOT	144				144			
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE		X	EACH	16				16			
85000500	MAINTENANCE OF EXISTING FLASHING BEACON INSTALLATION	*	Х	EACH	1		1					
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET		X	EACH	1		1					
86200120	UNINTERRUPTIBLE POWER SUPPLY		X	EACH	1		1					
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C		X	FOOT	431			-		431		
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C		X	FOOT	2830		2830					
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C		Х	FOOT	2073		2073					
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR		X	FOOT	2386		2386					
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C		Х	FOOT	61		61					
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C		Х	FOOT	1005		1005					
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.		Х	EACH	2		2					
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.		X	EACH	2		2					
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.		Х	EACH	1					1		
87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.		X	EACH	1		1					
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.		Х	EACH	1		1					
87702487	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 32 FT. AND 34 FT.		Х	EACH	1		1		b.			
87702610	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 38 FT. AND 46 FT.		Х	EACH	1		1					
87800100	CONCRETE FOUNDATION, TYPE A		X	FOOT	20		16			4		
87800150	CONCRETE FOUNDATION, TYPE C		Х	FOOT	4		4					
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	*	Х	FOOT	50		50					
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED		Х	EACH	6		6					
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED		Х	EACH	4		4					
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED		X	EACH	6		6					
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED		X	EACH	2		2		7			
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM		X	EACH	12		12					
88500100	INDUCTIVE LOOP DETECTOR		X	EACH	10		10					
88600100	DETECTOR LOOP, TYPE I		Х	FOOT	1300		1300	-				
88700200	LIGHT DETECTOR		X	EACH	3		· · · · · · · · · · · · · · · · · · ·			3		

* 50% STATE, 25% CITY, 25% DORR TOWNSHIP

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	PLOT DATE = 8/9/2011	DATE - "	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	;	SUMM	ARY OF (QUANTITIES	
	IL RO	UTE 17	6 AND	BRIARWOOD	RD.
SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.

CONSTRUCTION CODE

F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHE
335	11-00114-00-CH		McHENRY	56	30
			CONTRAC	T NO.	355
	ILLINOIS FED.	AID	PROJECT		

					CONSTRUCTION	ON CODE				
							STP	FUNDS		
,						0004	0021	0042	0021	0021
	ITEM DESCRIPTION	SPECIAL PROVISION	SPECALTY ITEM	UNIT	TOTAL QUANTITY	ROADWAY	TRAFFIC SIGNALS*	TRAINEES	HIGHWAY LIGHTING	EMERGENCY VEHICLE PREEMPTION
88700300	LIGHT DETECTOR AMPLIFIER		X	EACH	1					1
89502380	REMOVE EXISTING HANDHOLE	*	X	EACH	2		2			
Z0001050	AGGREGATE SUBGRADE 12"	*		SQ YD	6365	6365				
Z0004530	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 8"	*		SQ YD	701	701				
Z0076600	TRAINEES	*		HOUR	1000			1000		
	TREE, ACER PLATANOIDES (NORWAY MAPLE), 2" CALIPER, BALLED AND BURLAPPED		X	EACH	5	5				
A2001016	TREE, ACER RUBRUM (RED MAPLE), 2" CALIPER, BALLED AND BURLAPPED		X	EACH	5	5				
A2002716	TREE, CARYA OVATA (SHAGBARK HICKORY), 2" CALIPER, BALLED AND BURLAPPED		X	EACH	5	5		-		
	TREE, QUERCUS ALBA (WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED		Х	EACH	18	18				
	TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED		Х	EACH	18	18				
X0426200	DEWATERING	*		L SUM	1	1				
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	*		SQ YD	6483	6483				
X7010237	CHANGEABLE MESSAGE SIGN, SPECIAL	*	X	CAL DA	60		60			
X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	*	Х	FOOT	648					648

^{* 50%} STATE, 25% CITY, 25% DORR TOWNSHIP

EARTHWORK SUMMARY

LOCATION	EARTH EXCAVATION(CY)	UNSUITABLE MATERIAL(CY)	EXCAVATION TO BE USED IN EMBANKMENT(CY)	EMBANKMENT(CY)	EARTHWORK BALANCE(CY)
ILL 176	3542	1771	1328	2622	-1294
BRIARWOOD/OHNSTAD	3365	1682	1262	538	724
TOTAL	6907	3453	2590	3160	-570

EARTH EXCAVATION (CUT) AND EMBANKMENT (FILL) FROM CROSS SECTIONS

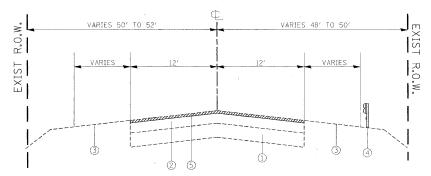
UNSUITABLE MATERIAL ASSUMED TO BE 50% OF EXCAVATED MATERIAL

EXCAVATION TO BE USED IN EMANKMENT ADJUSTED FOR 25% SHRINKAGE

EARTHWORK BALANCE

(-) SHORTAGE (+) WASTE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED			CHMMADY OF CHANTITIES	F.A.P.	SECTION	COUNTY	TOTAL SHEET
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	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		IL KUUTE 1/6 AND BKIAKWUUD KD.	333	11 00111 00 011	CONTRACT	NO. 63551
	PLOT DATE = 8/9/2011	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT	1101 05551



①EXISTING PCC BASE COURSE 71/2"

②EXISTING HMA OVERLAY 7"

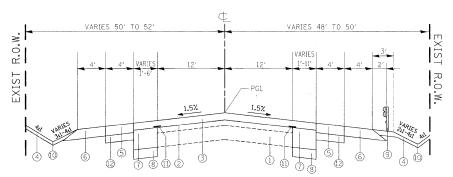
(3) EXISTING AGGREGATE SHOULDER

(4)EXISTING GUARDRAIL STA 109+00 to 117+50

SHMA SURFACE REMOVAL, VARIABLE DEPTH

Typical Existing Cross Section

IL 176 STATION 109+50 to 129+01



- 1 EXISTING PCC BASE COURSE 71/2"
- (2) EXISTING HMA OVERLAY
- (3) 2" HMA SURFACE COURSE, MIX D, N70, IL 9.5
- 4 TOPSOIL, 4" AND SEED
- (5) HMA SHOULDER, 8"
- (6) AGGREGATE SHOULDER, 8"
- (7) 10.25" HMA BASE COURSE WIDENING OR HMA BASE COURSE, SEE NOTE BELOW
- 8 12" AGGREGATE SUBGRADE
- (9) GUARDRAIL STA 109+50 to 117+55
- (O) SWALE
- (1) STRIP REFLECTIVE CRACK CONTROL TREATMENT
- (2) AGGREGATE BASE COURSE, 4"

Typical Proposed Cross Section

IL 176 STATION 109+50 to 129+01

NOTE: THE FOLLOWING AREAS SHALL BE PAID FOR AS HMA BASE COURSE WIDENING, 10.25"

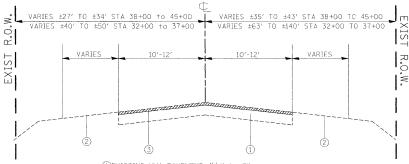
STA. 109+50 TO 117+80 LT

STA. 109+50 TO 111+30 RT STA, 119+60 TO 129+01 LT

STA. 125+90 TO 129+01 RT

THE FOLLOWING AREAS SHALL BE PAID FOR AS HMA BASE COURSE, 10.25"

STA, 117+80 TO 119+60 LT



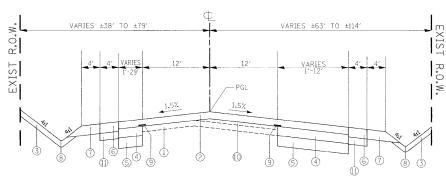
()EXISTING HMA PAVEMENT 41/2" to 7"

(2)EXISTING SHOULDER

(3)HMA SURFACE REMOVAL VARIABLE DEPTH STA. 31+90 TO 33+00, 35+00 TO 35+50 39+50 TO 40+75, 40+75 TO 44+54

Typical Existing Cross Section

BRIARWOOD ROAD/OHNSTAD ROAD STATION 31+90 to 44+54



- (1) EXISTING HMA PAVEMENT 4 1/2" TO 7"
- 2 2" HMA SURFACE COURSE, MIX D, N70, IL 9.5
- 3 TOPSOIL, 4" AND SEED
- 4 10.25" HMA BASE COURSE WIDENING OR HMA BASE COURSE, SEE NOTE BELOW
- (5) 12" AGGREGATE SUBGRADE
- (6) HMA SHOULDER, 8"
- 7 AGGREGATE SHOULDER, 8"
- (9) STRIP REFLECTIVE CRACK CONTROL TREATMENT
- (O LEVELING BINDER, STA. 33+00 TO 35+00
- (1) AGGREGATE BASE COURSE, 4"

Typical Proposed Cross Section

BRIARWOOD ROAD STATION 31+90 to 35+50

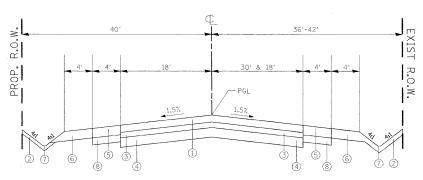
NOTE: THE FOLLOWING AREAS SHALL BE PAID FOR AS HMA BASE COURSE WIDENING, 10.25" STA. 32+00 TO 33+85 LT

STA. 32+00 TO 33+05 RT

STA, 34+40 TO 34+70 RT

THE FOLLOWING AREAS SHALL BE PAID FOR AS HMA BASE COURSE, 10.25"

STA, 33+65 TO 35+50 LT STA, 33+05 TO 34+40 RT



- 1 2" HMA SURFACE COURSE, MIX D, N70, IL 9.5
- ② TOPSOIL, 4" AND SEED
- (3) 10.25" HMA BASE COURSE 4 12" AGGREGATE SUBGRADE
- (7) SWALE

(5) HMA SHOULDER, 8"

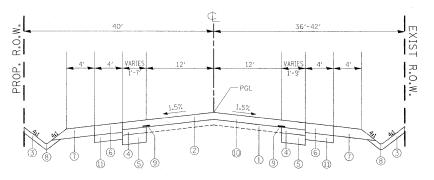
(8) AGGREGATE BASE COURSE, 4"

6 AGGREGATE SHOULDER, 8"

NOTE: REMOVAL OF EXISTING HMA PAVEMENT SHALL
BE INCLUDED IN THE ITEM EARTH EXCAVATION

Typical Proposed Cross Section

BRIARWOOD ROAD/OHNSTAD ROAD STATION 35+50 to 39+50



- ① EXISTING HMA PAVEMENT 41/2" to 7"
- 2 2" HMA SURFACE COURSE, MIX D, N70, IL 9.5
- (3) TOPSOIL, 4" AND SEED
- (4) 10.25" HMA BASE COURSE WIDENING OR HMA BASE COURSE, SEE NOTE BELOW
- 5 12" AGGREGATE SUBGRADE
- 6 HMA SHOULDER, 8"
- (7) AGGREGATE SHOULDER, 8"
- (8) SWALE
- STRIP REFLECTIVE CRACK CONTROL TREATMENT
- (O) LEVELING BINDER STA, 40+75 TO 41+75
- (1) AGGREGATE BASE COURSE, 4"

Typical Proposed Cross Section

OHNSTAD ROAD STATION 39+50 to 44+54

NOTE: THE FOLLOWING AREAS SHALL BE PAID FOR AS HMA BASE COURSE WIDENING, 10.25" STA, 42+50 TO 44+54 LT STA. 43+50 TO 44+54 RT

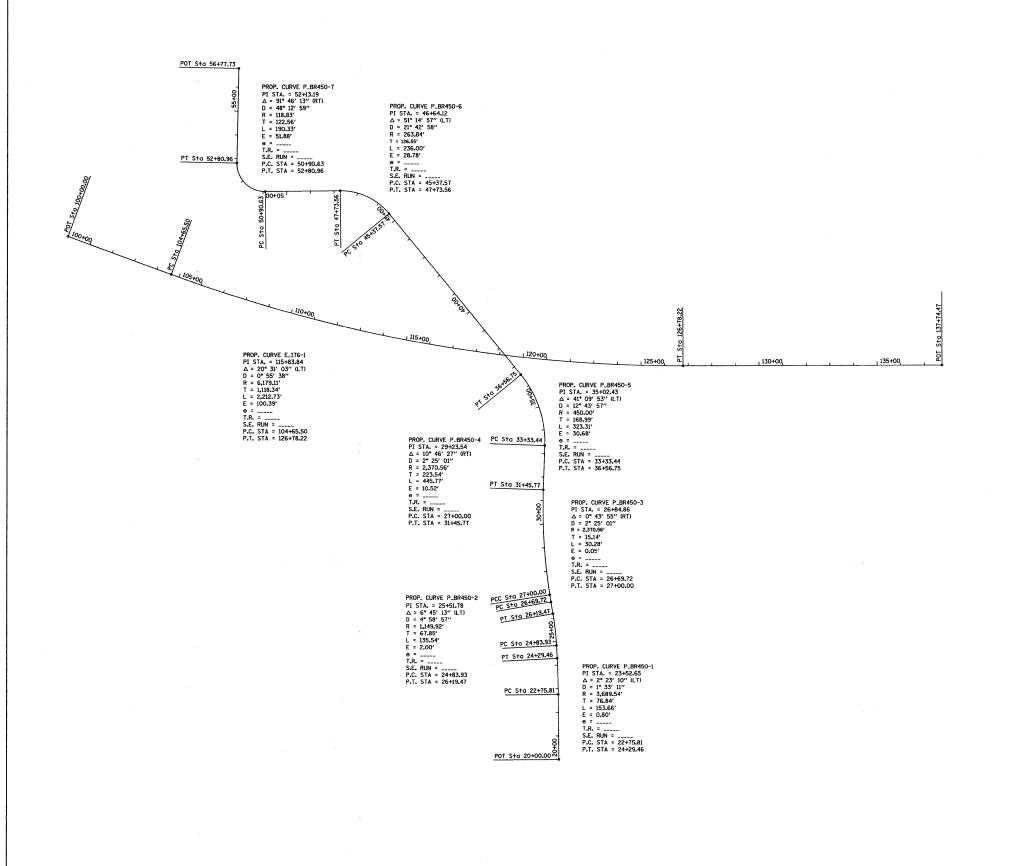
THE FOLLOWING AREAS SHALL BE PAID FOR AS HMA BASE COURSE, 10.25" STA. 39+50 TO 42+50 LT STA. 39+50 TO 43+50 RT

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -
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	PLOT DATE = 7/18/2011	DATE -	REVISED -

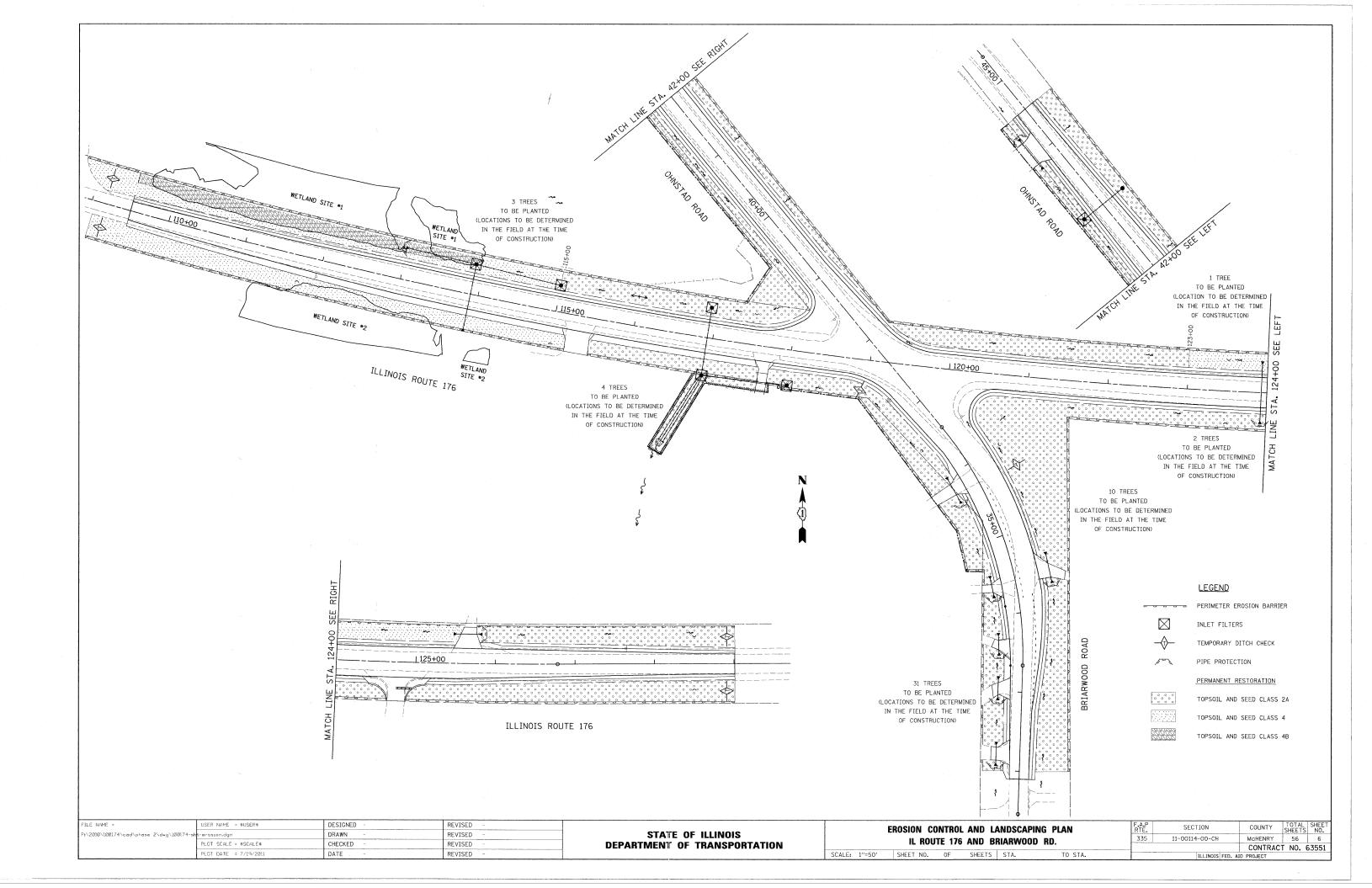
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

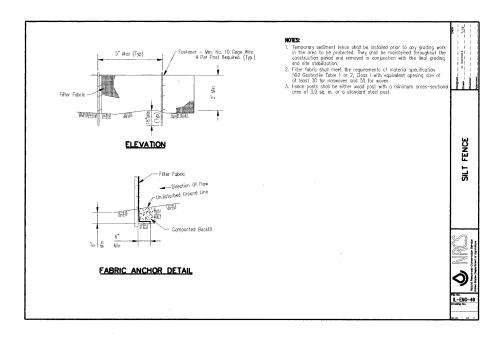
TYPICAL SECTIONS												
	IL ROU	TE 17	6 AND B	RIARWOO	DD RD.							
SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA							

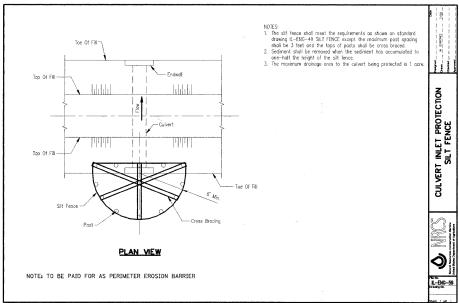
		CONTRAC	T NO. 6	3551
335	11-00114-00-CH	McHENRY	56	4
TE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

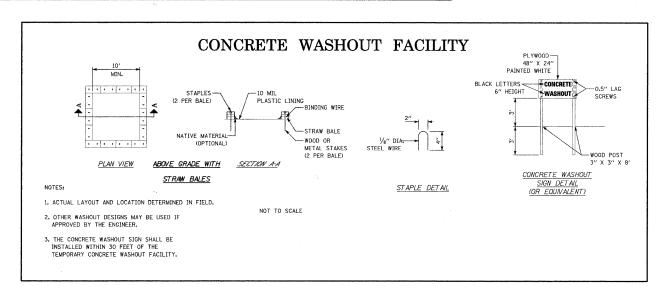


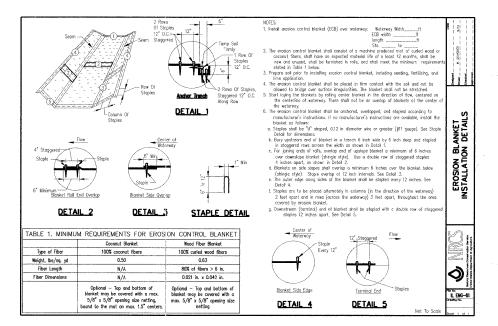
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	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		IL RO	UTE 176	AND B	RIARWOOI	D RD.	333	11-00114-00-08	CONTRAC	'T NO 63551
	PLOT DATE = 7/19/2011	DATE -	REVISED -		SCALE:	SHEET NO.	0F	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT	1 10. 65551











I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL MATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (MPDES) PERMIT (LRIO) THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

NAME OF PRIME CONTRACTOR AUTHORIZED REPRESENTATIVE SIGNATURE DATE

NAME OF SUBCONTRACTOR AUTHORIZED REPRESENTATIVE SIGNATURE DATE

GENERAL NOTES

A. THE CONSTRUCTION LIMITS WILL BE STAKED BY THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER TO PRESERVE TREES AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGED CONSTRUCTION LIMITS.

B. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO THE CONSTRUCTION LIMITS. THE RESIDENT ENGINEER SHALL MAKE THE FINAL DETERMINATION ON THE PLACEMENT AND LOCATION OF THE PERIMETER EROSION BARRIER.

C. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON SITE. ALL CHANGES TO THE SOIL EROSION AND SEDIMENT CONTROL PLAN SHALL BE NOTED ON THE SITE PLAN.

D. 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.

E. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.

F. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 14 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE, OR RE-DISTURBANCE, A QUANTITY OF TEMPORARY EROSION CONTROL SEEDING IS INCLUDED FOR AREAS THAT ARE DISTURBED BUT WILL NOT BE RESTORED WITHIN 14 DAYS.

G. AREAS OR EMBANKMENTS HAVING SLOPES GREATER THAN 4H:1V, OR THE BOTTOM 2' OF A OVERLAND DRAINAGE WAY SHALL BE STABILIZED WITH SOD, MAT OR BLANKET IN COMBINATION WITH SEEDING.

H. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.

. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORAL
AFACURES ARE NO LONGER NEEDED, AS APPROVED BY THE ENGINEER

J. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE PRIME CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR. THE CONTRACTOR SHALL INSPECT ALL SOIL EROSION CONTROL MEASURES ON A WEEKLY BASIS OR AFTER A ONE-HALF INCH RAINFALL AND REPLACE, REPAIR OR CLEAN THEM ON A TIMELY BASIS.

K. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. ALL PRECAUTIONS SHALL BE TAKEN TO AVOID TRACKING DURING CONSTRUCTION.

L. SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR ISOLATED WATERS OF MCHENRY COUNTY, STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES TO REMAIN IN PLACE FOR 30 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

M. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION, DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, SILT FILTER BAG (SPECIAL) OR OTHER APPROPRIATE MEASURE.

N. 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.

O. THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.

P. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE LATEST EDITION OF THE ILLINOIS URBAN MANUAL.

O. THE MCHENRY COUNTY SOIL AND WATER CONSERVATION DISTRICT (MCSWCD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION. CONTACT TOM MATTINGLY AT 815-338-0099.

R. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW BY THE MCSWCD.

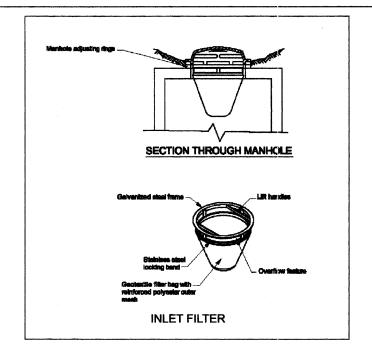
S. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE MCSWCD.

T. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA.

U. ALL DISTURBED AREAS SHALL BE RESTORED WITH 4 INCHES OF TOPSOIL AND SEED MIXES AS SPECIFIED.

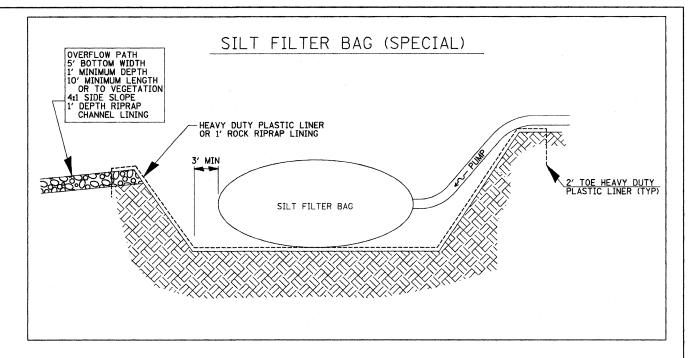
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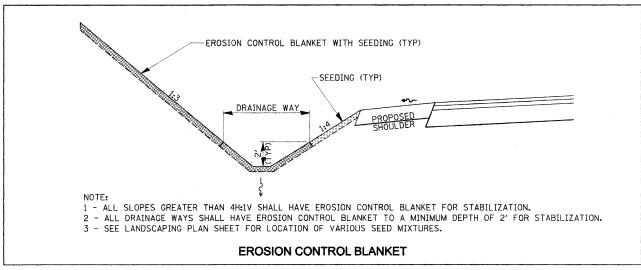
	EROSION CO	NTRO	L STAND	ARDS AN	D NOTES	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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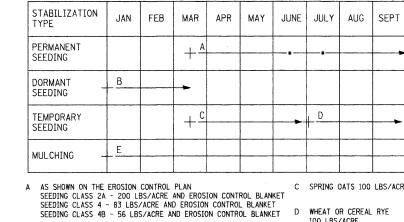


TEMPORARY DITCH CHECK, (1) ONE EACH IT FOOT LONG), LON THE RIGHT SIDE OF THE DITCH:

NOTE: THE INSTALLATION SHOWN ABOVE WILL BE MEASURED AS A TEMPORARY DITCH CHECK 14 FEET IN LENGTH,







- B AS SHOWN ON THE EROSION CONTROL PLAN

 SEEDING CLASS 2A 300 LBS/ACRE AND EROSION CONTROL BLANKET

 SEEDING CLASS 4 125 LBS/ACRE AND EROSION CONTROL BLANKET

 SEEDING CLASS 4B 84 LBS/ACRE AND EROSION CONTROL BLANKET

 * IRRIGATION NEEDED DURING JUNE AND JULY
- C SPRING OATS 100 LBS/ACRE
- 100 LBS/ACRE

OCT

NOV

, В

DEC

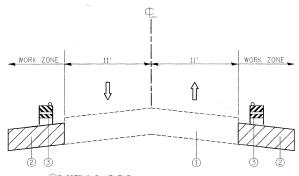
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SOIL STABILIZATION CHART

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STAPLES SHALL BE PLACED WHERE
THE UNITS OVERLAP AND IN THE
CENTER OF THE 7' UNIT AS SHOWN ON THE DIAGRAM.

POINT 1 MUST BE HIGHER THAN POINT 2 TO INSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.



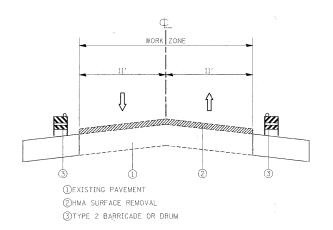
①EXISTING PAVEMENT

②EXCAVATION, AGGREGATE SUBGRADE AND HMA BASE COURSE, BASE COURSE WIDENING (TYPICAL)

3TYPE 2 BARRICADE OR DRUM

IL 176 MAINTENANCE OF TRAFFIC

STAGE 1 TYPICAL SECTION

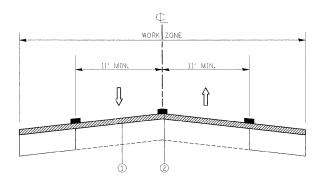


IL 176 MAINTENANCE OF TRAFFIC

STAGE 2 TYPICAL SECTION

STAGE 1: EXCAVATE AND PLACE HMA BASE COURSE OR BASE
COURSE WIDENING USING STANDARD 701326 WITH FLAGGERS.

STAGE 2: REMOVE EXISTING HMA SURFACE USING STANDARD 701306 WITH FLAGGERS.

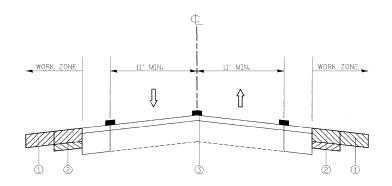


①HMA SURFACE COURSE

②TEMPORARY PAVEMENT MARKING (TYPICAL)

IL 176 MAINTENANCE OF TRAFFIC

STAGE 3 TYPICAL SECTION



1)AGGREGATE SHOULDER

②HMA SHOULDER WITH AGGREGATE BASE

3TEMPORARY PAVEMENT MARKING (TYPICAL)

IL 176 MAINTENANCE OF TRAFFIC

STAGE 4 TYPICAL SECTION

STAGE 3: PLACE FINAL SURFACE OVER EXISTING PAVEMENT AND WIDENING USING STANDARD 701306 WITH FLAGGERS.

SCALE:

STAGE 4: EXCAVATE FOR SHOULDERS AND PLACE HMA SHOULDERS AND AGGREGATE SHOULDERS.

24'' WORK G20-5ap ZONE 2 REQUIRED **SPEED** 30′′ LIMIT R2-1 45 24′′ **END WORK** ZONE R2-12 2 REQUIRED **SPEED**

WORK ZONE SPEED LIMIT SIGNS SHALL BE PLACED ON ILLINOIS 176 IN ADVANCE OF THE START OF CONSTRUCTION.

LIMIT

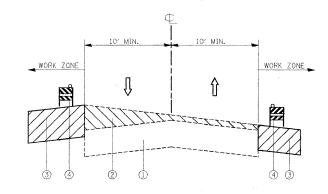
END WORK ZONE SPEED LIMIT SIGNS SHALL BE PLACED ON ILLINOIS 176 AT THE END OF CONSTRUCTION.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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(1) EXISTING PAVEMENT

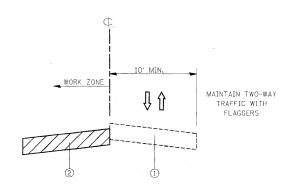
②LEVEL BINDER-STAGE 1

③EXCAVATION, ACCRECATE SUBGRADE, HMA BASE COURSE, OR HMA BASE COURSE WIDENING-STAGE 2

4)TYPE 2 BARRICADE OR DRUM

BRIARWOOD / OHNSTAD MAINTENANCE OF TRAFFIC

STAGES 1 & 2 TYPICAL SECTION



①EXISTING PAVEMENT (2) PAVEMENT REMOVAL, EXCAVATION, AGGREGATE SUBGRADE

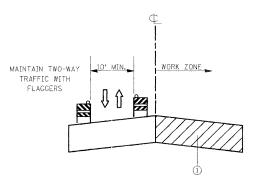
BRIARWOOD / OHNSTAD MAINTENANCE OF TRAFFIC

STAGE 3A TYPICAL SECTION

STAGE 1: PLACE LEVEL BINDER ON EXISTING PAVEMENT FROM STA. 33+00 TO STA. 35+00 AND STA. 40+75 TO STA. 41+75 USING STANDARD 701306 WITH FLAGGERS.

STAGE 2: EXCAVATE AND PLACE AGGREGATE SUBGRADE, HMA BASE COURSE OR BASE COURSE WIDENING FROM STA. 31+90 TO STA. 35+50 AND STA. 39+50 TO 44+54 USING STANDARD 701326 WITH FLAGGERS.

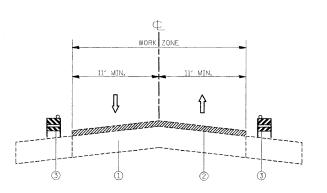
STAGE 3: REMOVE EXISTING PAVEMENT FROM STA. 35+50 TO STA. 37+30 AND STA. 38+20 TO STA. 39+50 AND PLACE AGGREGATE SUBGRADE AND HMA BASE COURSE USING STANDARD 701306 WITH FLAGGERS.



①PAVEMENT REMOVAL, EXCAVATION AGGREGATE SUBGRADE AND HMA BASE COURSE

BRIARWOOD / OHNSTAD MAINTENANCE OF TRAFFIC

STAGE 3B TYPICAL SECTION



DEXISTING PAVEMENT

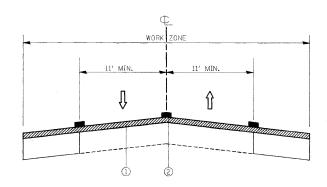
2HMA SURFACE REMOVAL

(3)TYPE 2 BARRICADE OR DRUM

BRIARWOOD / OHNSTAD MAINTENANCE OF TRAFFIC

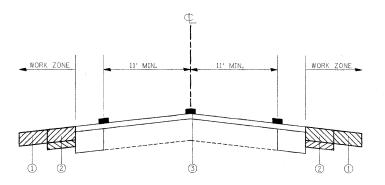
STAGE 4 TYPICAL SECTION

STAGE 4: REMOVE EXISTING HMA SURFACE USING STANDARD 701306 WITH FLAGGERS.



①HMA SURFACE COURSE ②TEMPORARY PAVEMENT MARKING (TYPICAL)

BRIARWOOD / OHNSTAD MAINTENANCE OF TRAFFIC STAGE 5 TYPICAL SECTION



1)AGGREGATE SHOULDER

2)HMA SHOULDER

3TEMPORARY PAVEMENT MARKING (TYPICAL)

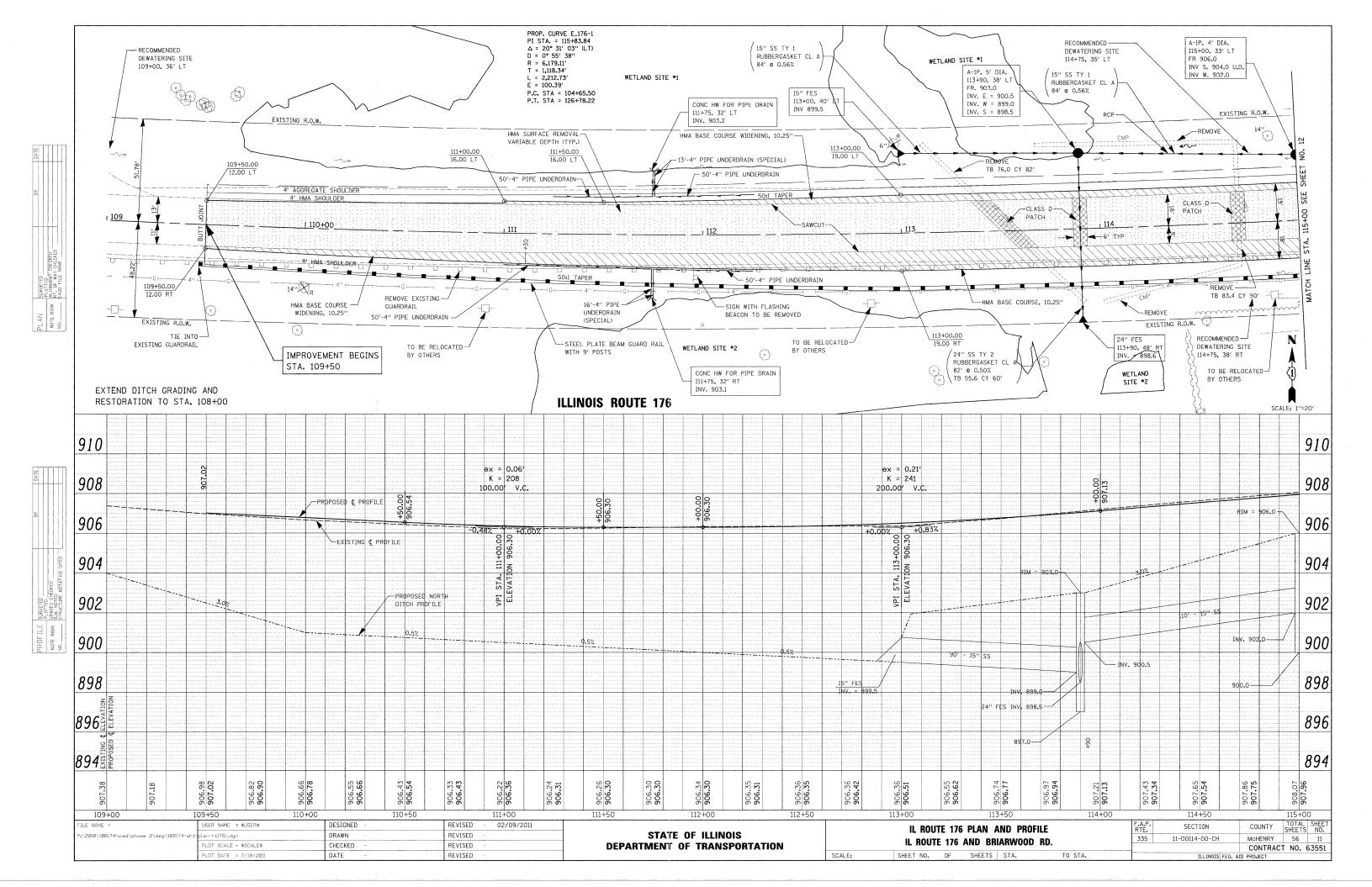
BRIARWOOD / OHNSTAD MAINTENANCE OF TRAFFIC

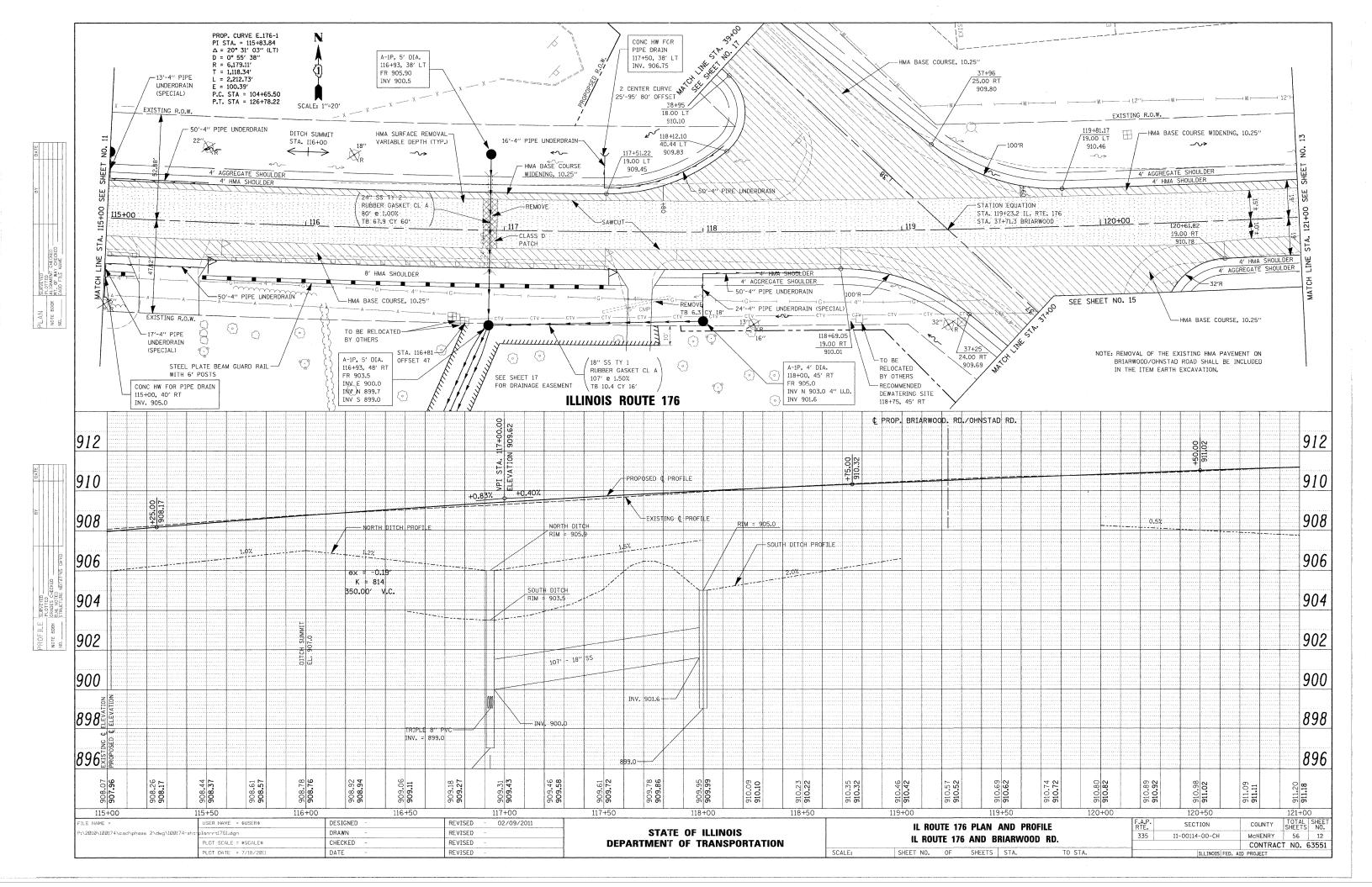
STAGE 6 TYPICAL SECTION

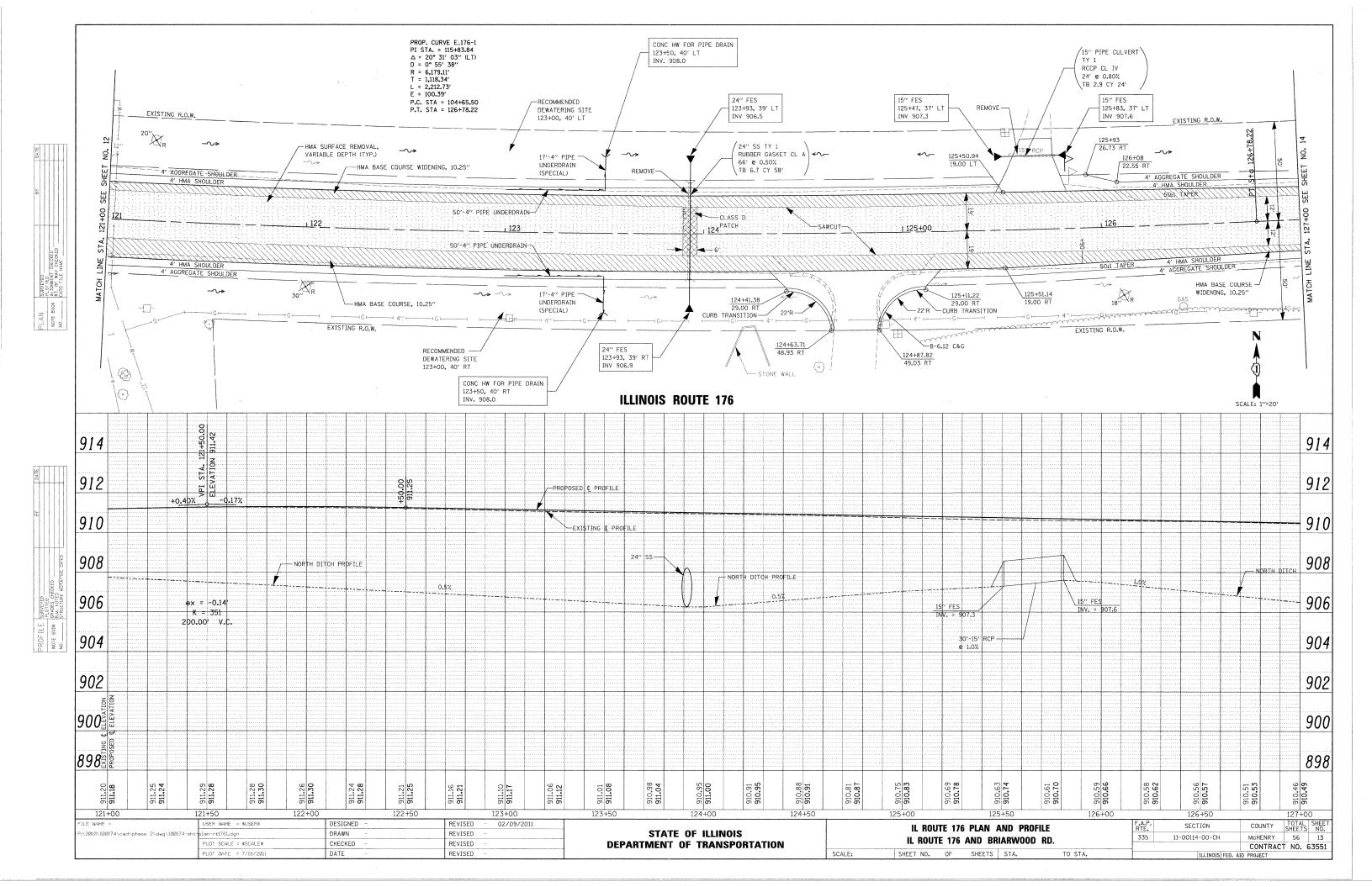
STAGE 5: PLACE FINAL SURFACE OVER EXISTING PAVEMENT, HMA WIDENING AND HMA BASE COURSE USING STANDARD 701306 WITH FLAGGERS.

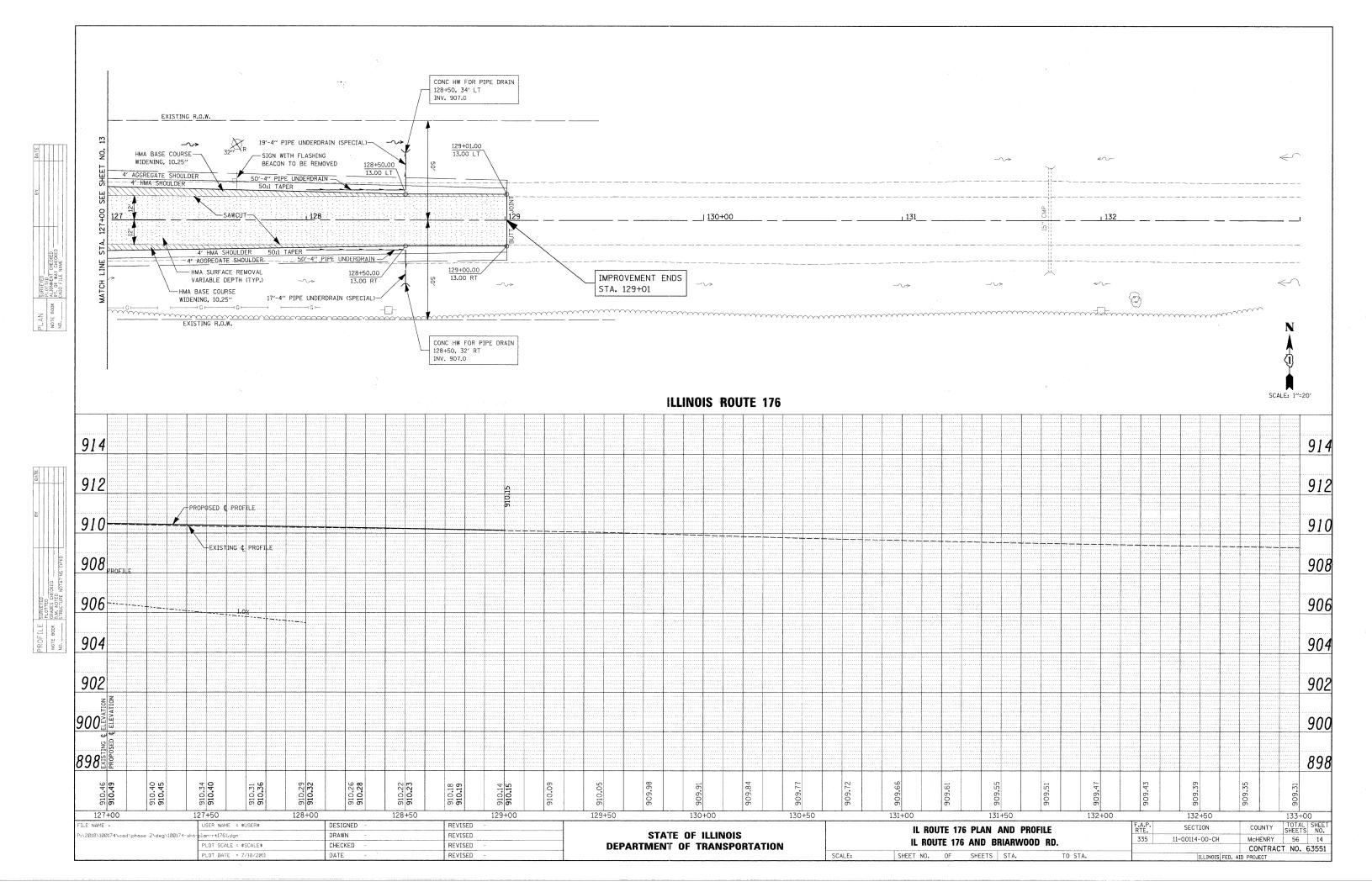
STAGE 6: EXCAVATE FOR SHOULDERS AND PLACE HMA SHOULDERS AND AGGREGATE SHOULDERS.

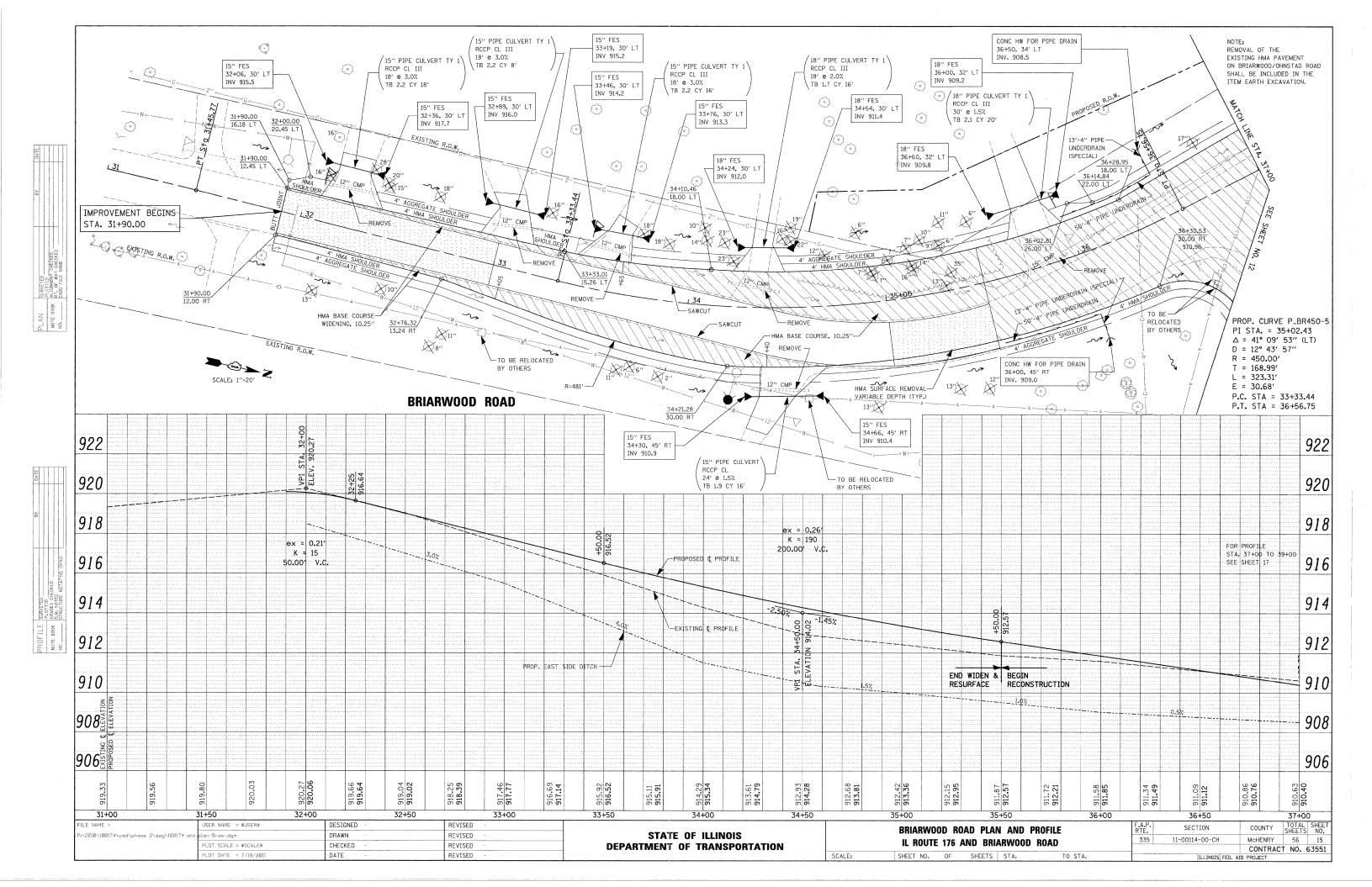
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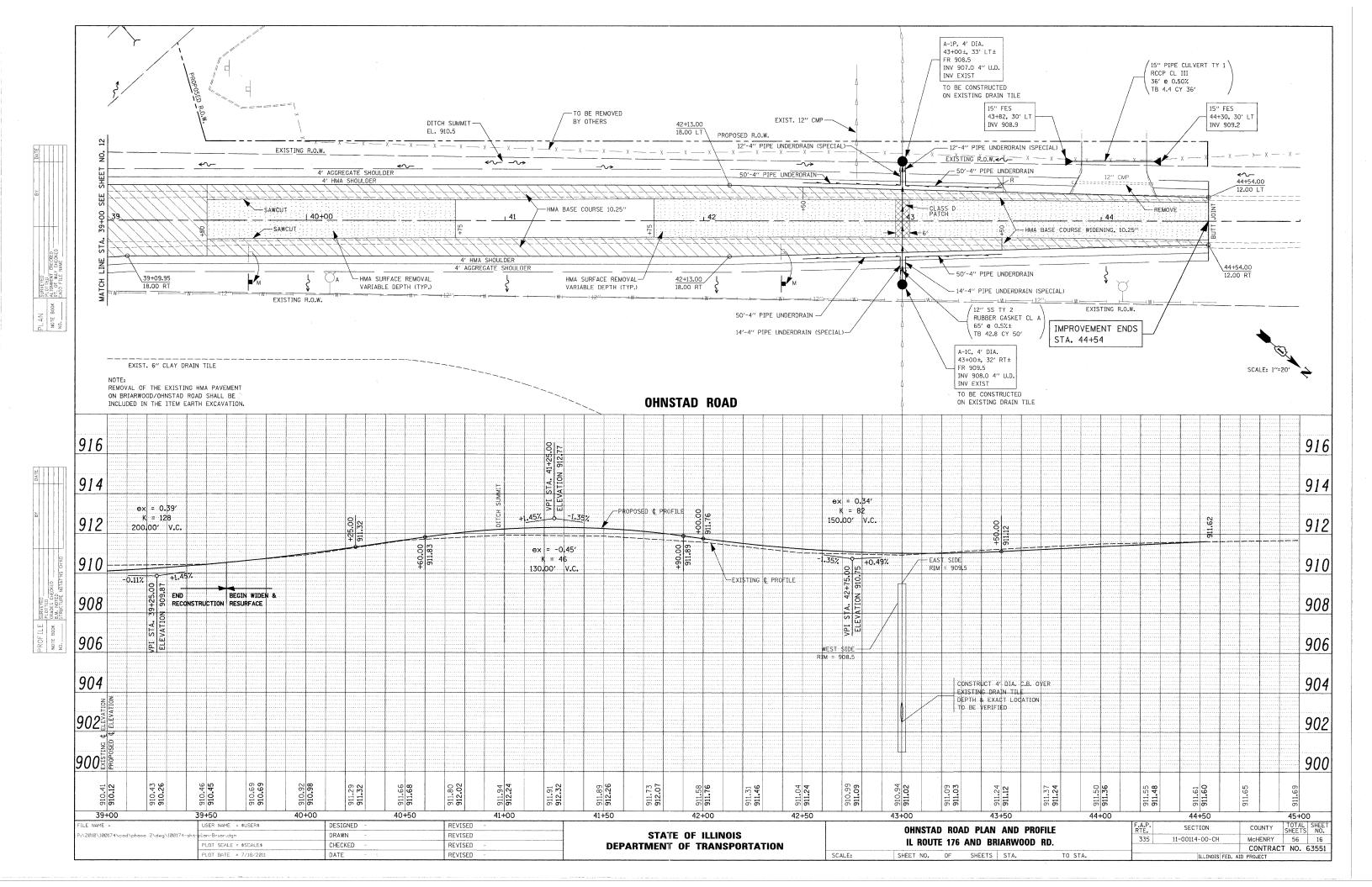


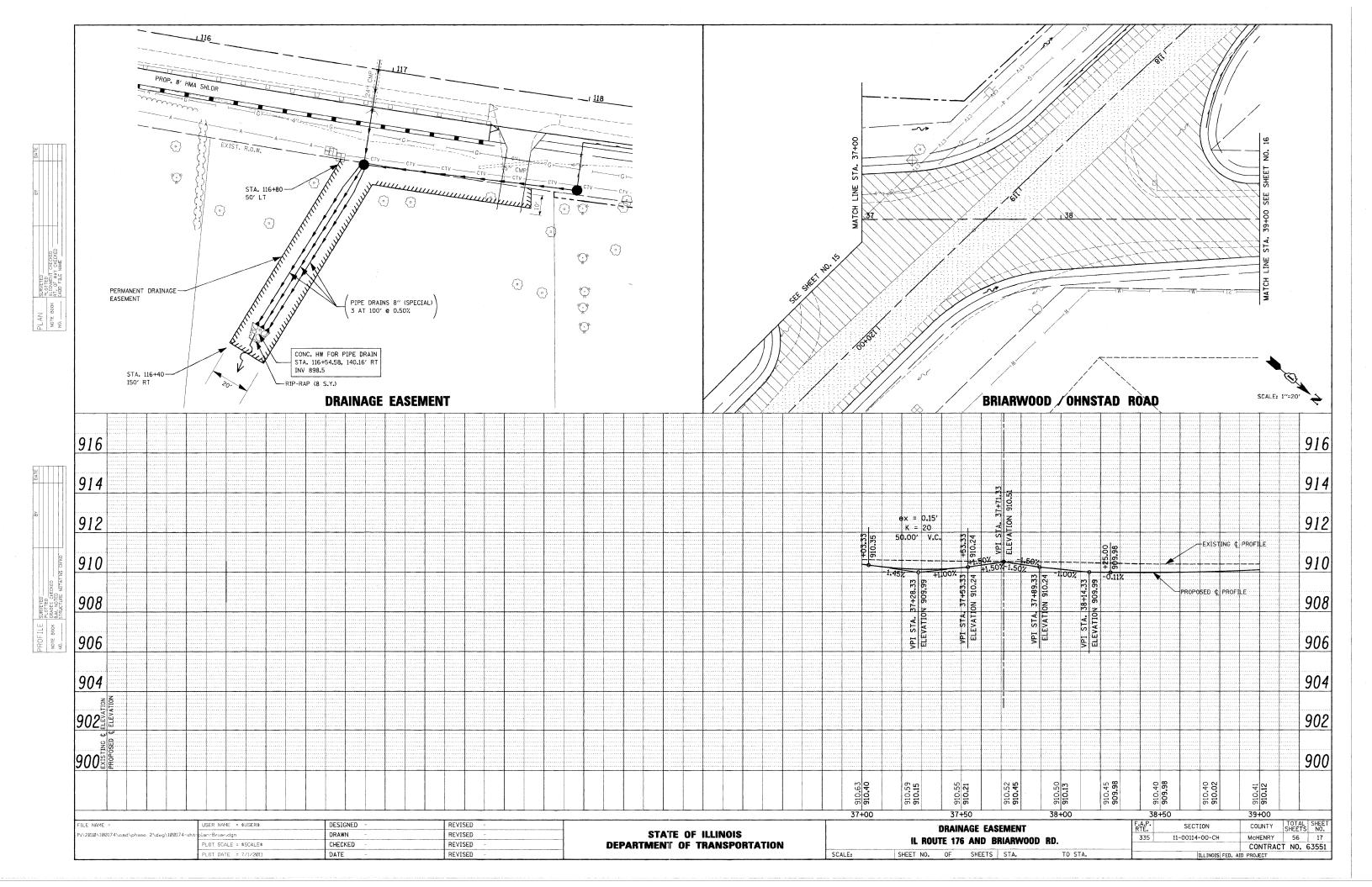


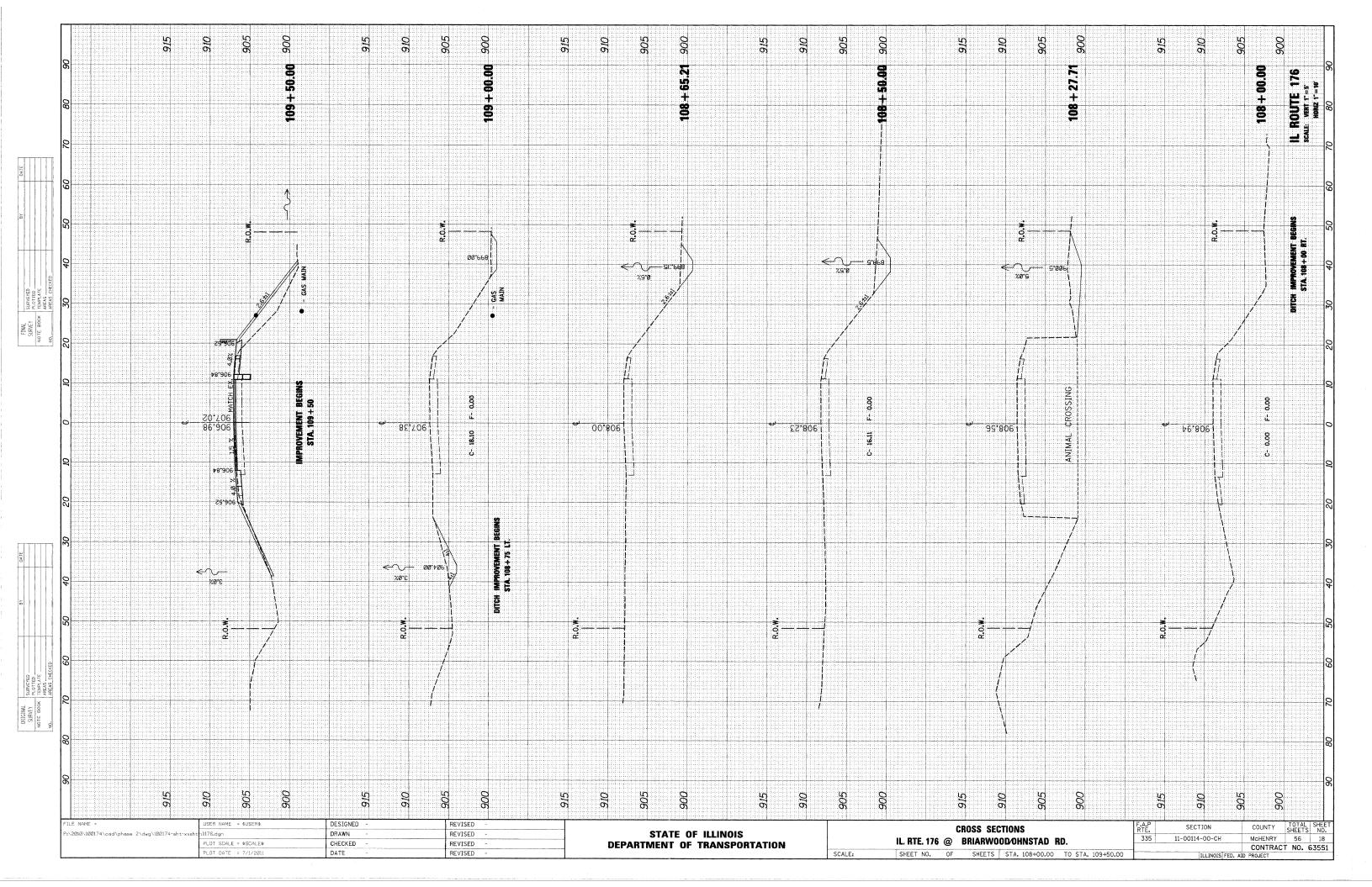


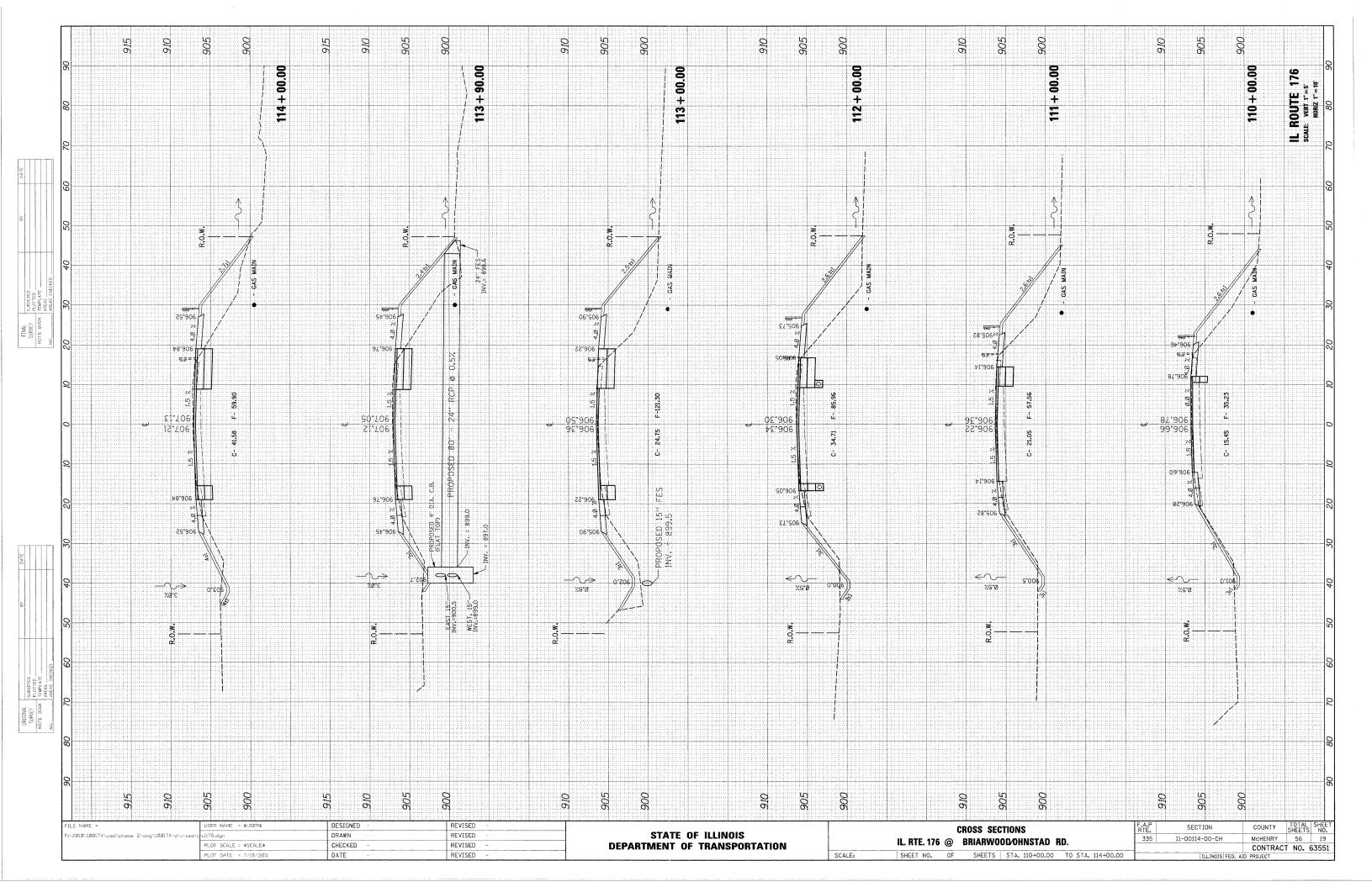


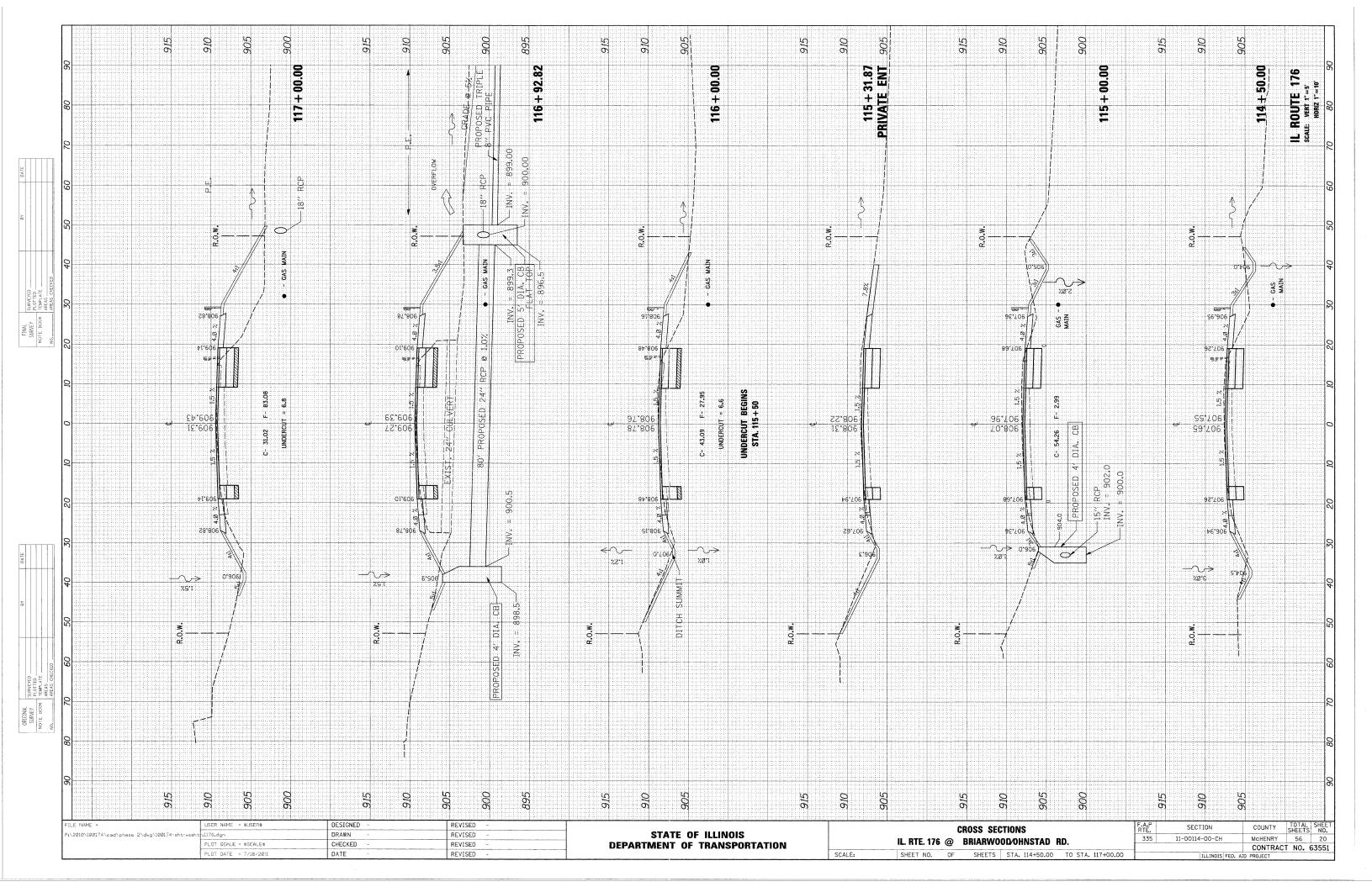


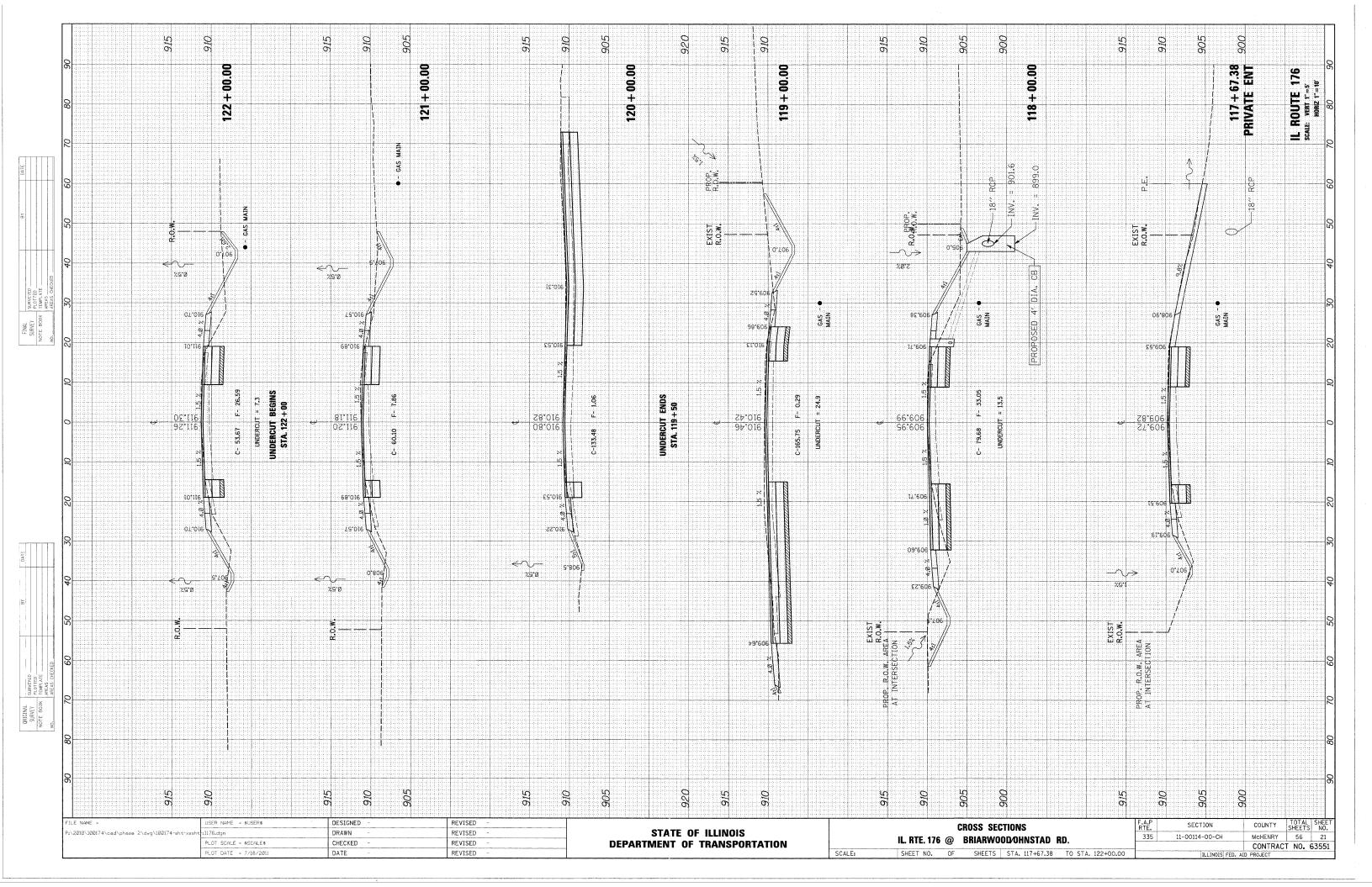


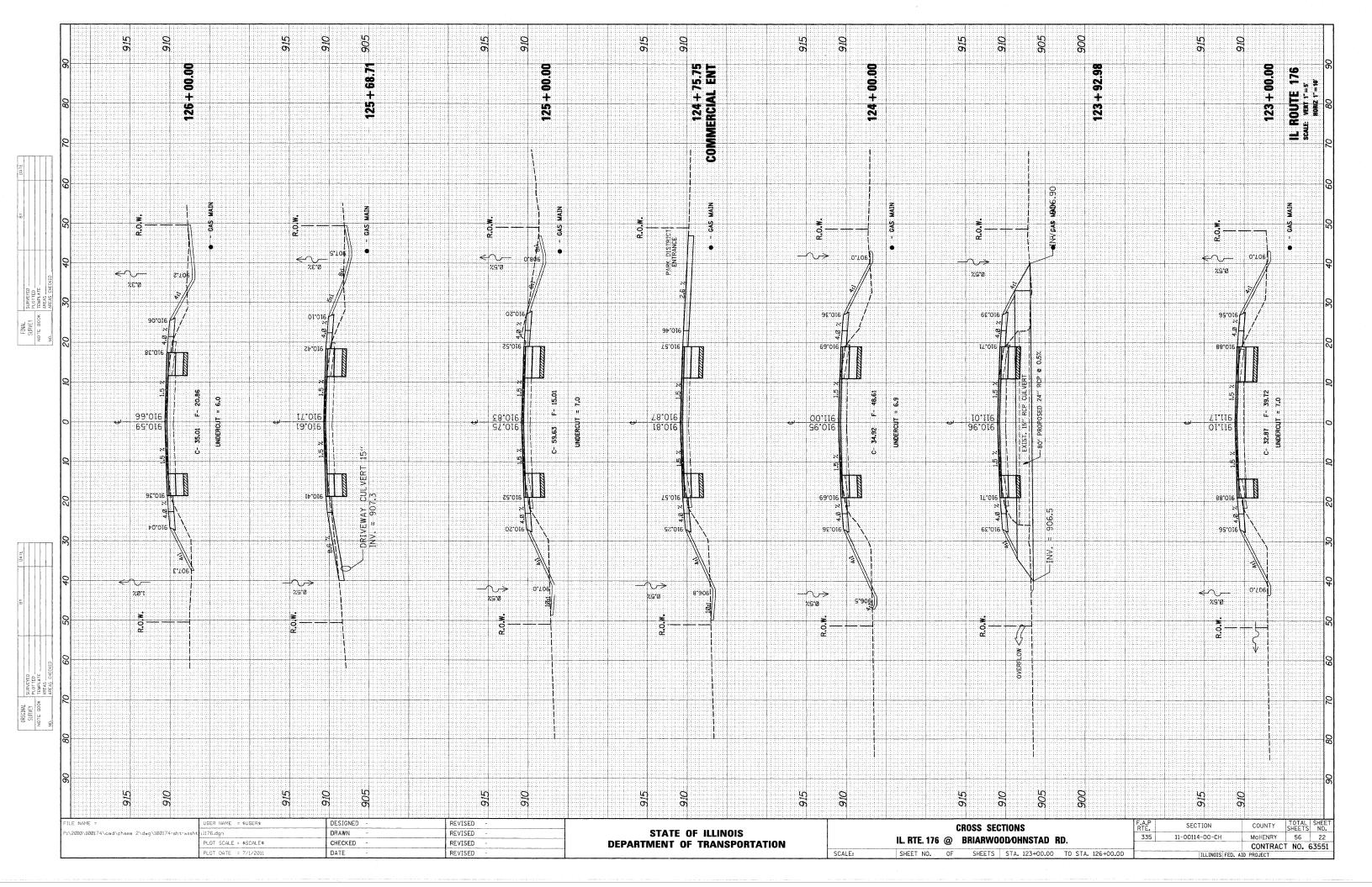


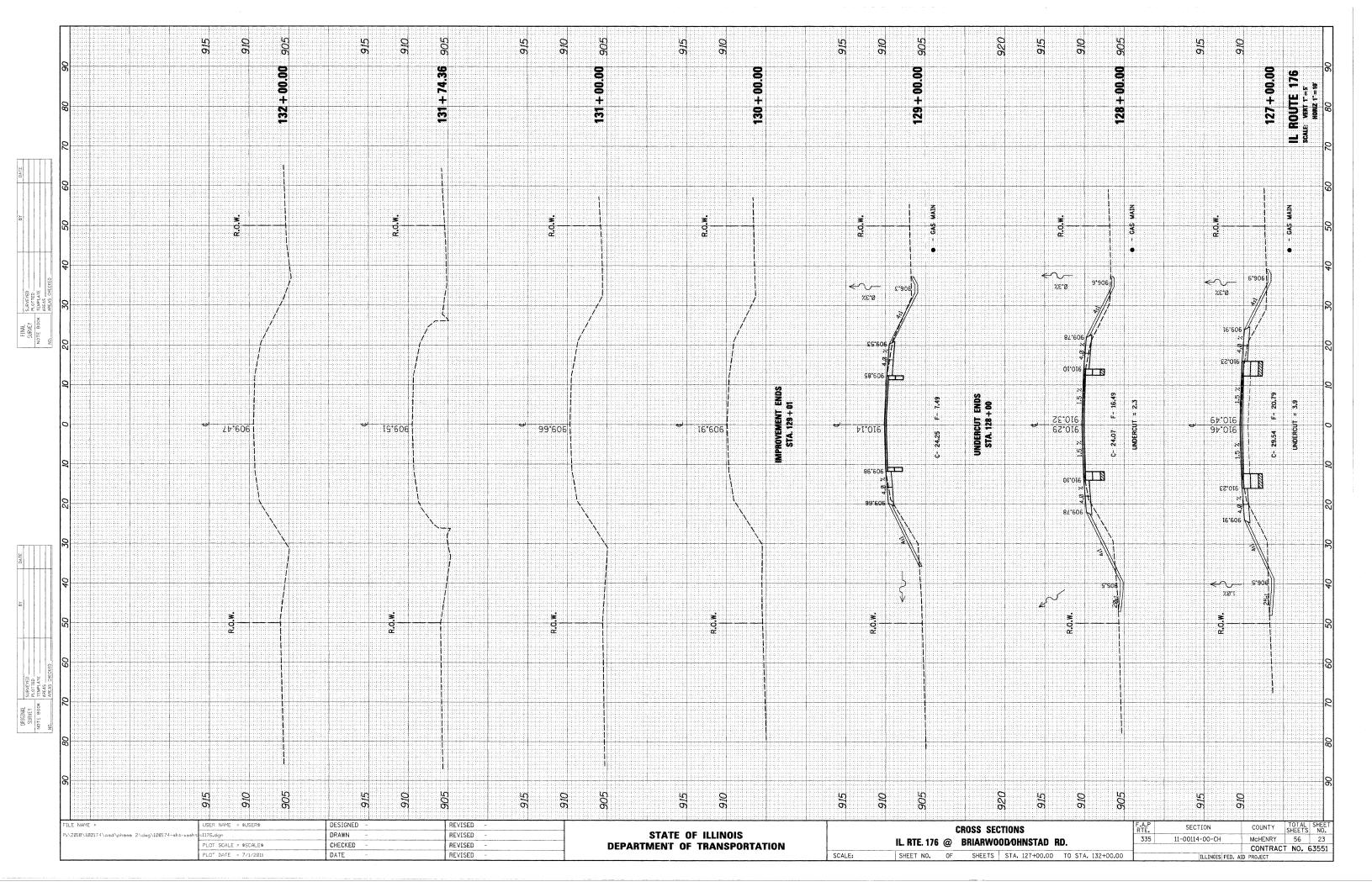


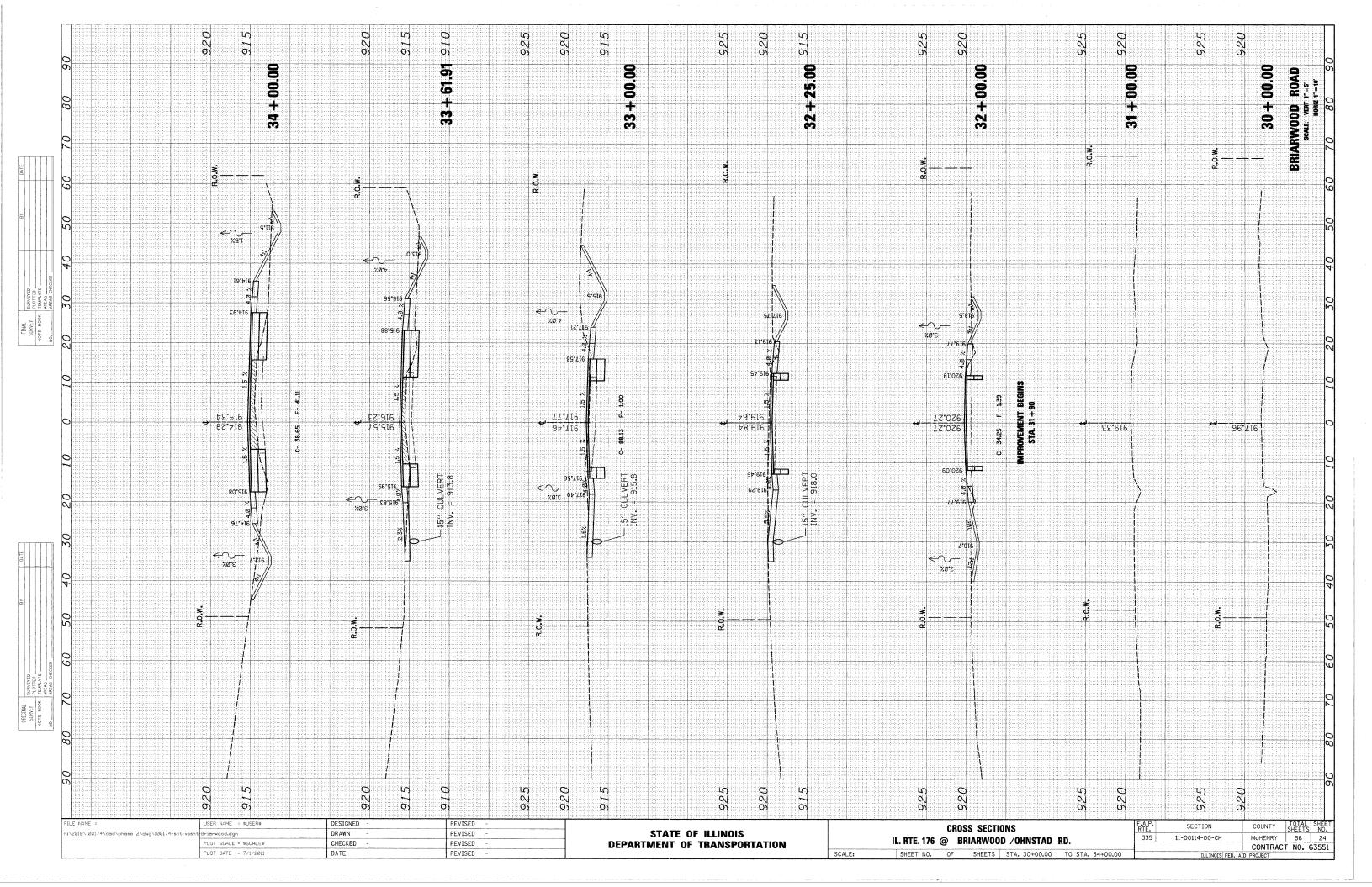


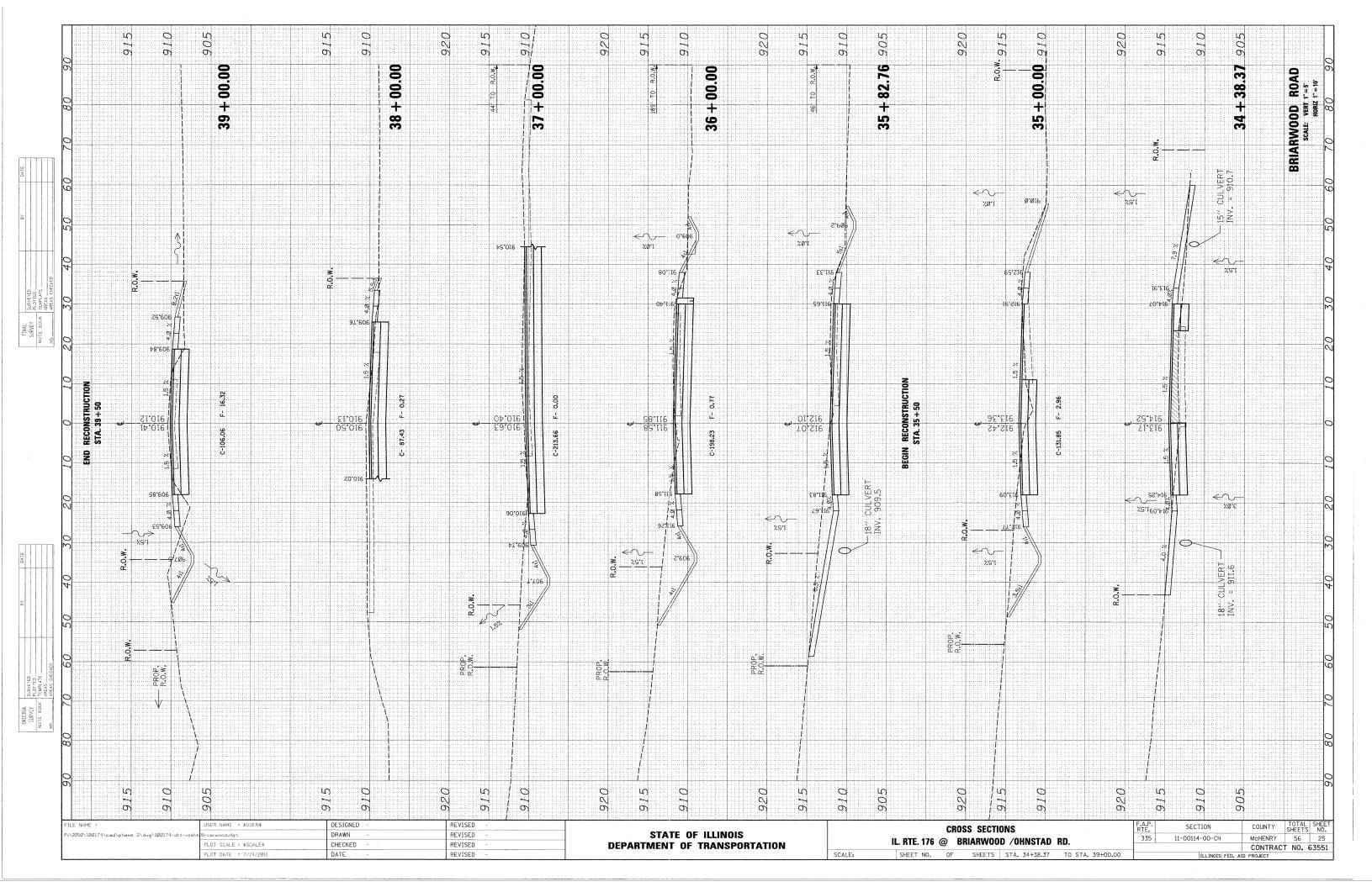


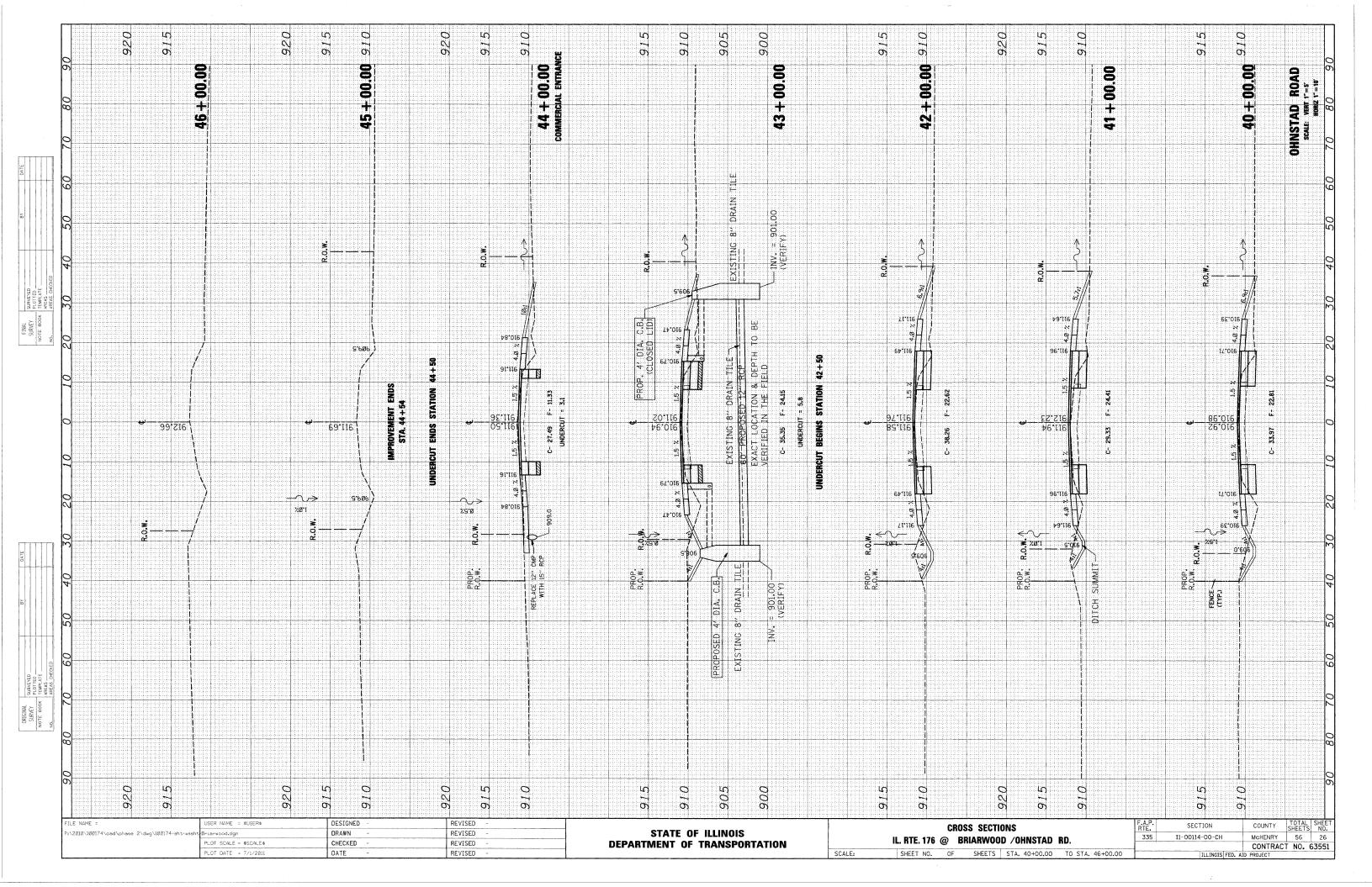


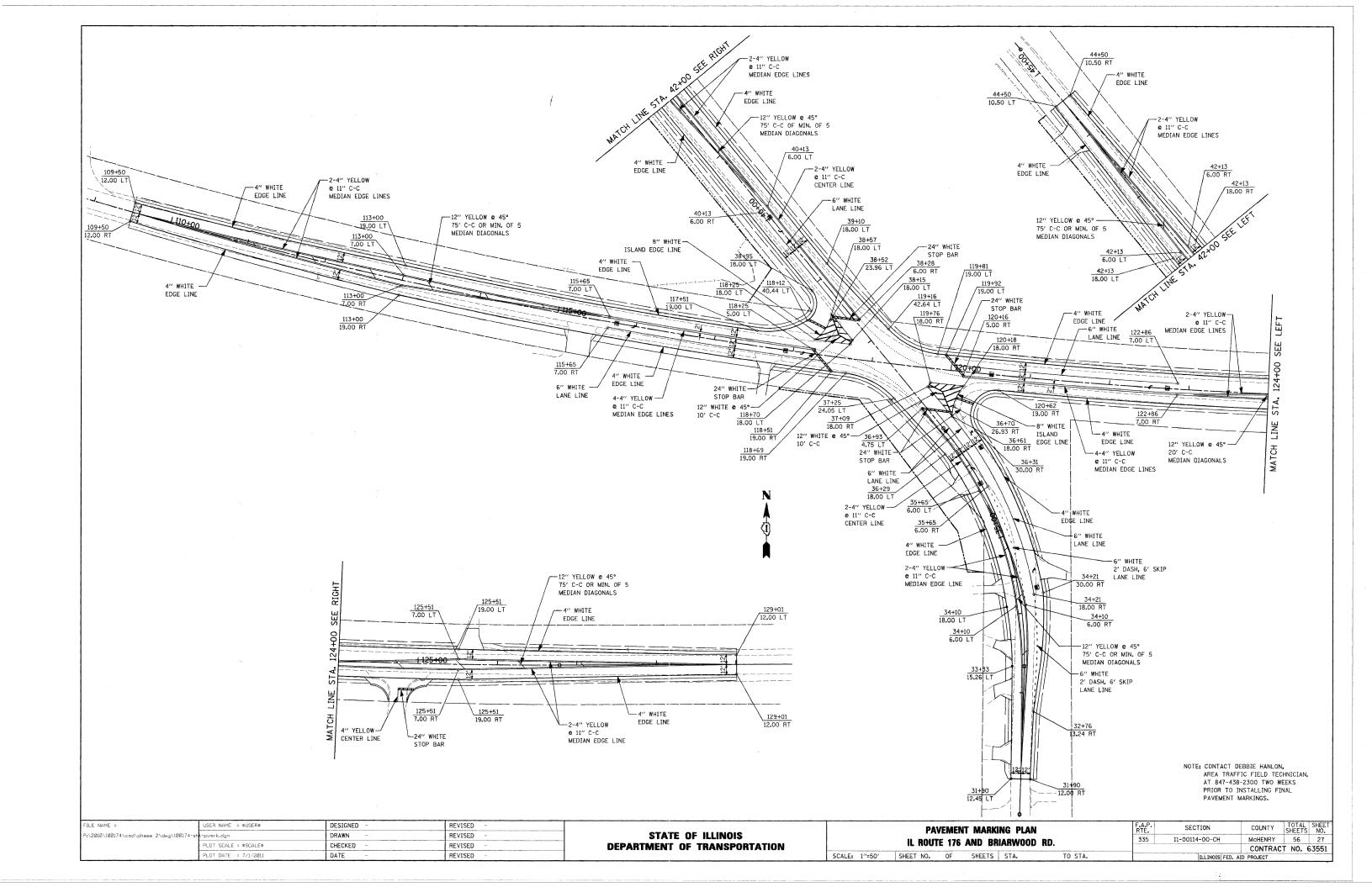


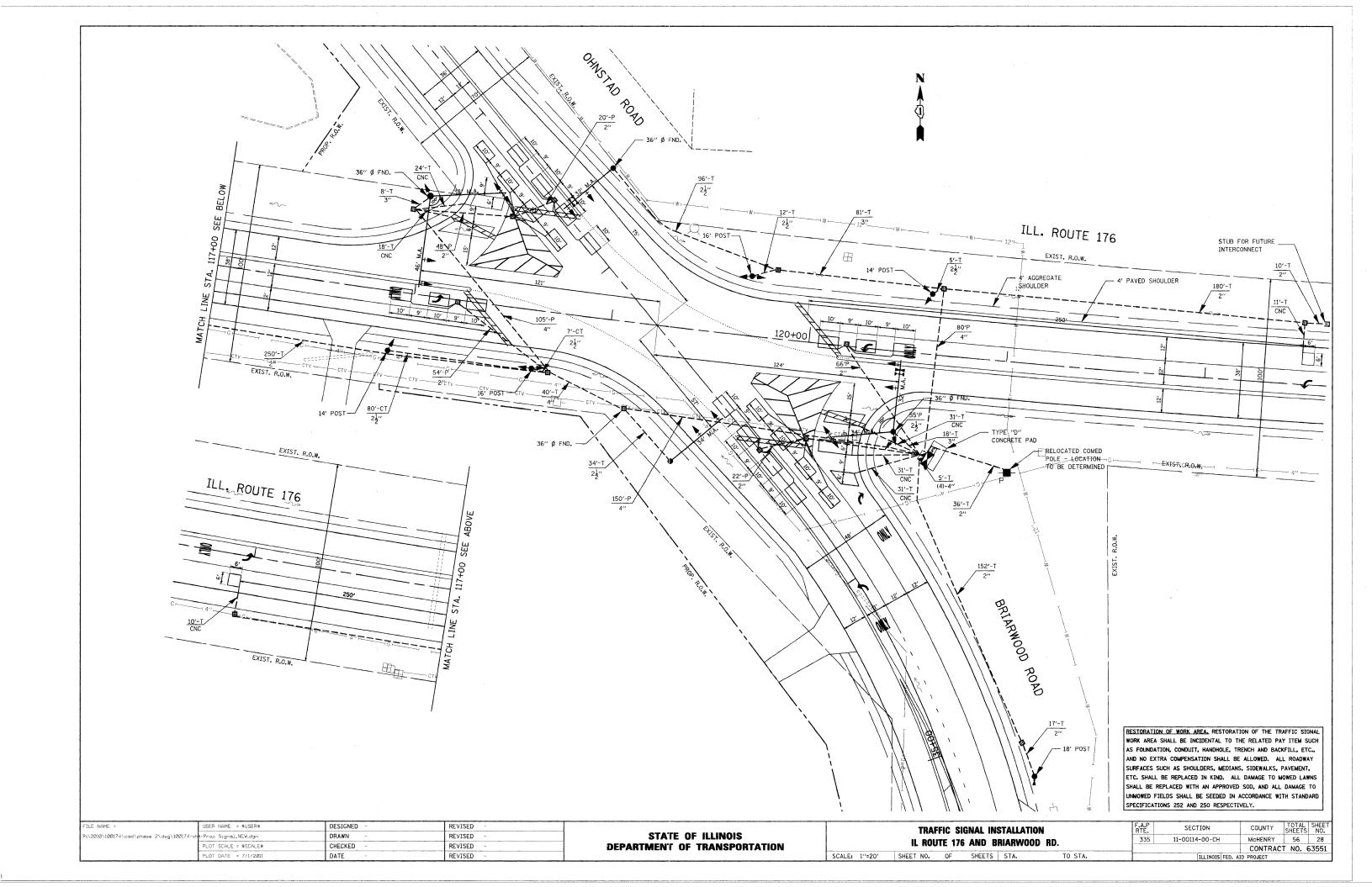










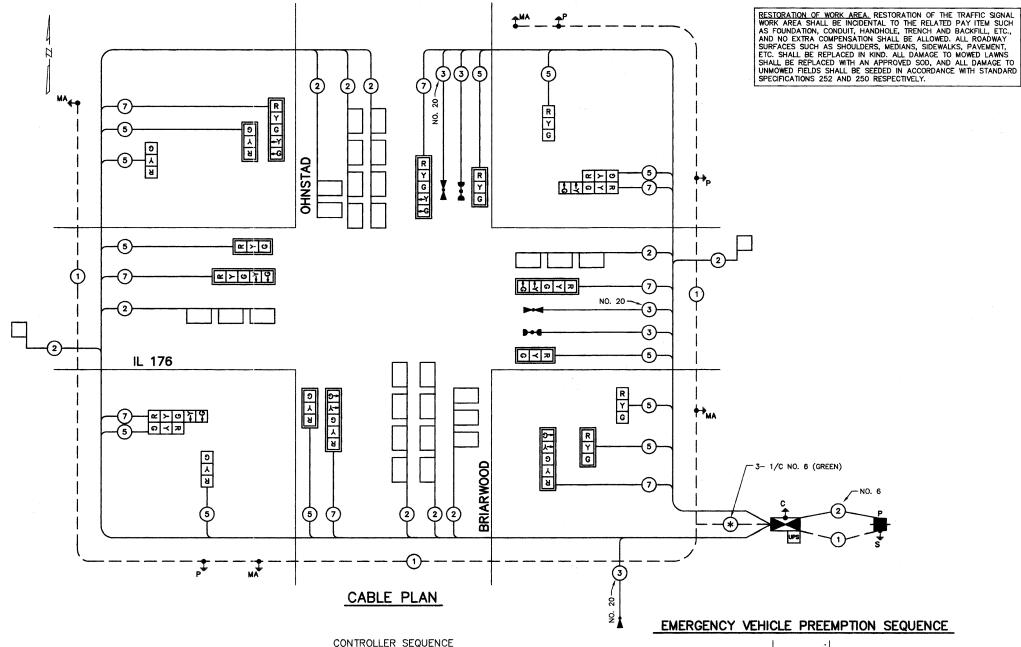


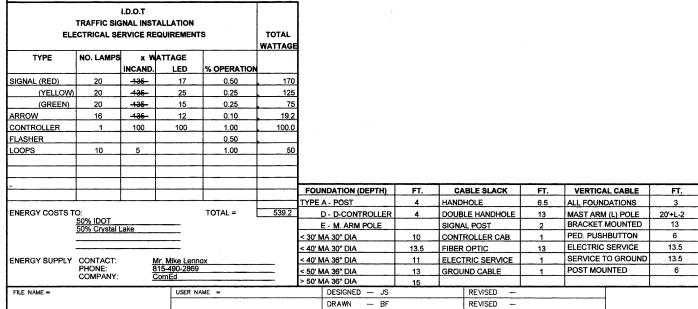
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	3:
SIGN PANEL - TYPE 2	SQ FT	20
SERVICE INSTALLATION - POLE MOUNTED	EACH	
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	65:
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	25:
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	11:
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	60
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	210
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	5
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	33
HEAVY-DUTY HANDHOLE	EACH	14
DOUBLE HANDHOLE	EACH	
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	85
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	
UNINTERRUPTIBLE POWER SUPPLY	EACH	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	43:
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2830
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	207
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2386
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	6
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	100
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	
STEEL MAST ARM ASSEMBLY AND POLE. 34 FT.	EACH	
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 38 FT. AND 46 FT.	EACH	
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	. 50
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	10
DETECTOR LOOP, TYPE I	FOOT	1300
LIGHT DETECTOR	EACH	1300
LIGHT DETECTOR AMPLIFIER	EACH	
REMOVE EXISTING HANDHOLE	EACH	†
CHANGEABLE MESSAGE SIGN, SPECIAL	CAL DAY	60
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	648
MAINTENANCE OF EXISTING FLASHING BEACON INSTALLATION, SPECIAL	LSUM	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 34 FT. AND 32 FT.	EACH	-

PLOT SCALE =

PLOT DATE =





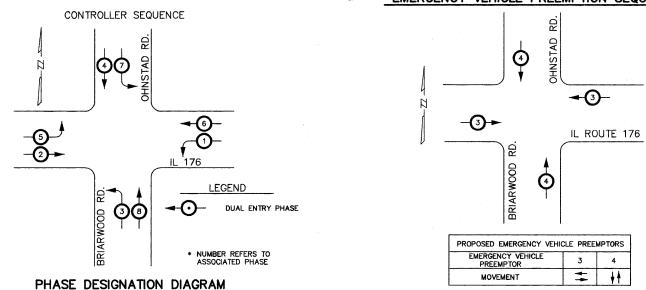
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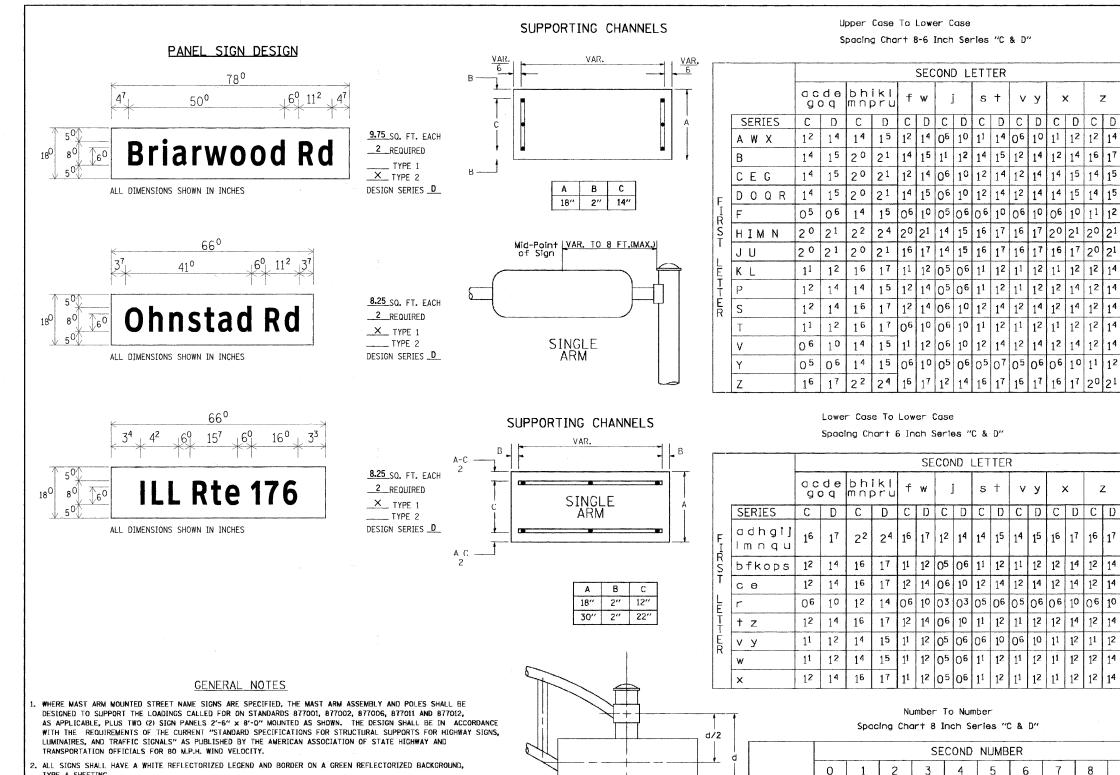
HER SCALE: NONE

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN & SEQUENCE IL ROUTE 176 AND BRIARWOOD RD. SHEET NO. OF SHEETS STA. TO STA.

11-00114-00-CH McHENRY 56 29 335 HLR PROJECT NO. - 10.0174.330 CONTRACT NO. 63551 FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



Secure Sign to Mast Arm

UPPER AND LOWER CASE LETTER WIDTHS

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

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Spacing Chart 8 Inch Series "C & D"

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1	N	5			14	15	14	1 ⁵	14	1 ⁵	11	12	11	12	14	1 ⁵	14	1 ⁵	11	12	14	1 ⁵	14	15
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* J.O. HERBERT CO. MIDLOTHIAN, VA.

* WESTERN REMAC INC. WOODRIDGE, IL.

PARTS LISTING:

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

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

SIGN CHANNEL SIGN SCREWS

PART #HPN053 (MED. CHANNEL) 1/4" x 14 x 1" H.W.H. *3 SELF TAPPING WITH NEOPRENE WASHER

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

4. ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4 ".

BRACKETS

PART *HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM

COMPATIBILITY WITH THE CHANN	EL/BRACKET OF THE ABOVE PRODUCT.			shall be use	ed. See Note #5.
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c:\pw_work\PWIDOT\BAUERDL\dØ1Ø8315\tsØ2	dan	DRAWN -	BCK	REVISED -	
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	PLOT DATE = 11/4/2009	DATE -	03-15-09	REVISED -	

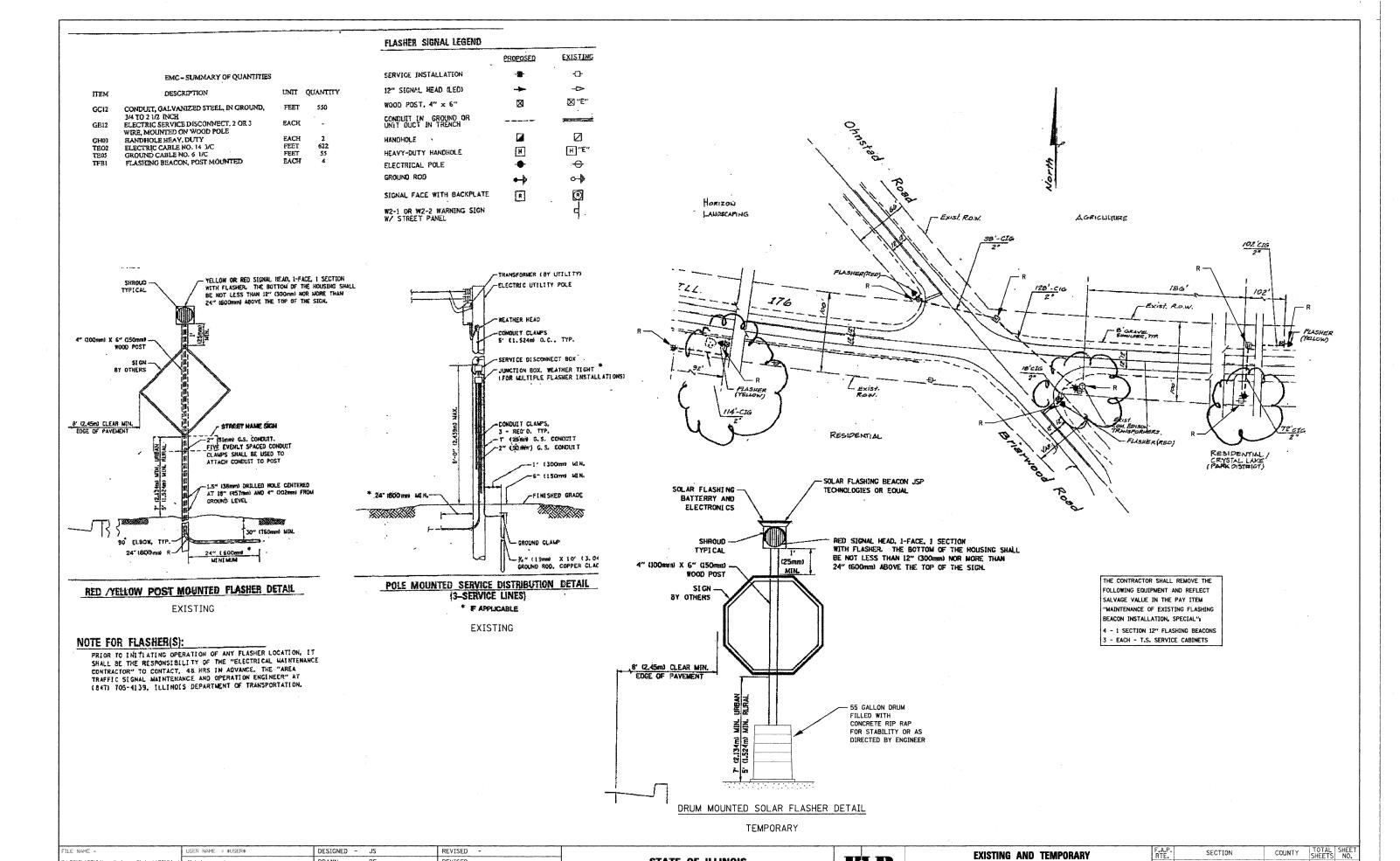
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DUAL

ARM

DISTRICT ONE	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MAST ARM MOUNTED STREET NAME SIGNS	335	11-00114-00-CH	McHENRY	56	30
		T\$-02	CONTRACT	NO. 6	53551
CALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

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PLOT SCALE = #SCALE#

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GROUND MOUNTED FLASHING BEACONS.

SHEET NO. OF SHEETS STA.

11-00114-00-CH

ILLINOIS FED. AID PROJECT

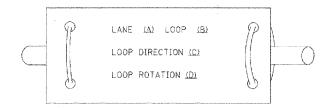
MCHENRY 56

CONTRACT NO. 63551

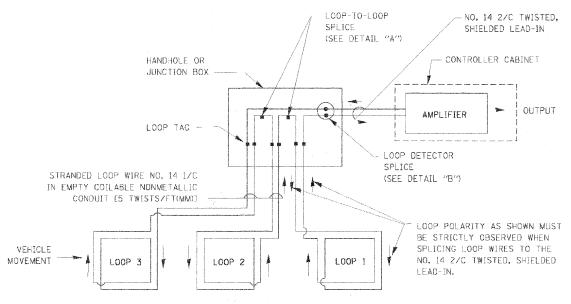
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

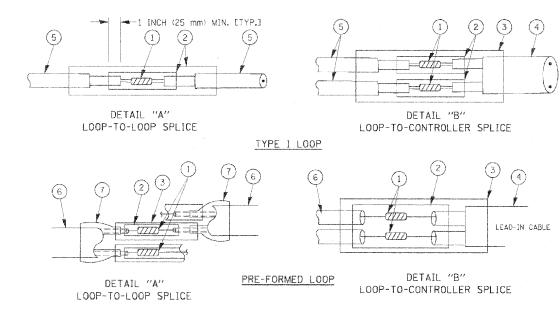


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION,
- C. LABEL LOOP CABLE "IN" OR LOOP, CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- (6) PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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		PLOT DATE = 10/6/2009	DATE -	10/28/09	REVISED -	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

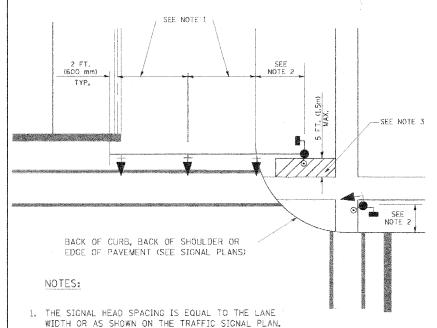
STEET NO. 1 OF 6 SHEETS STA.

STANDARD TRAFFIC SIGNAL DESIGN DETAILS

FED. ROAD DIST. NO. | ILLINOIS| FED. AID PROJECT | NO. 63551

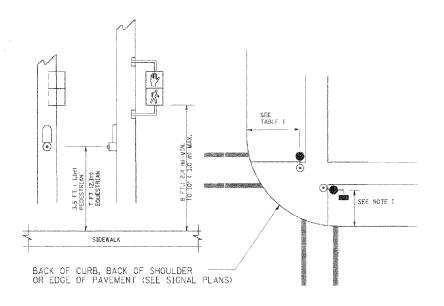
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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.
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

- 1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 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."

RECOMMENDED PUSHBUTTON LOCATIONS 5.0 FT. (J.5 m) MAX. (J.5 m) MAX. LEGEND DOWNNARD SLOPE PEGESTRIAN PUSHBUTTON DOWNNARD SLOPE PEGESTRIAN PUSHBUTTON RECOMMENDED PEGESTRIAN PUSHBUTTON RECOMMENDED

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

NOTES:

- . PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL; AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
- 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.

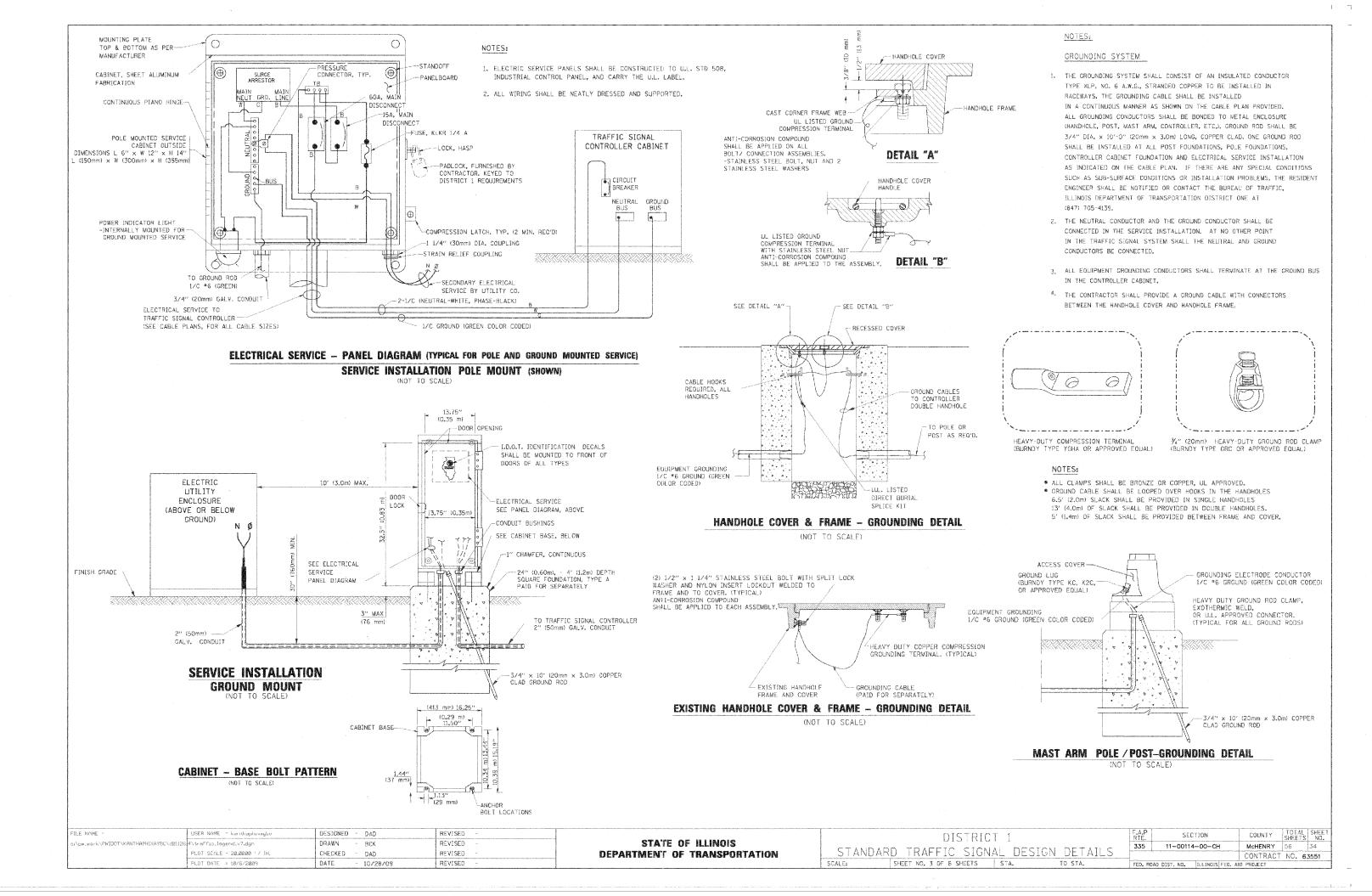
TRAFFIC SIGNAL EQUIPMENT OFFSET

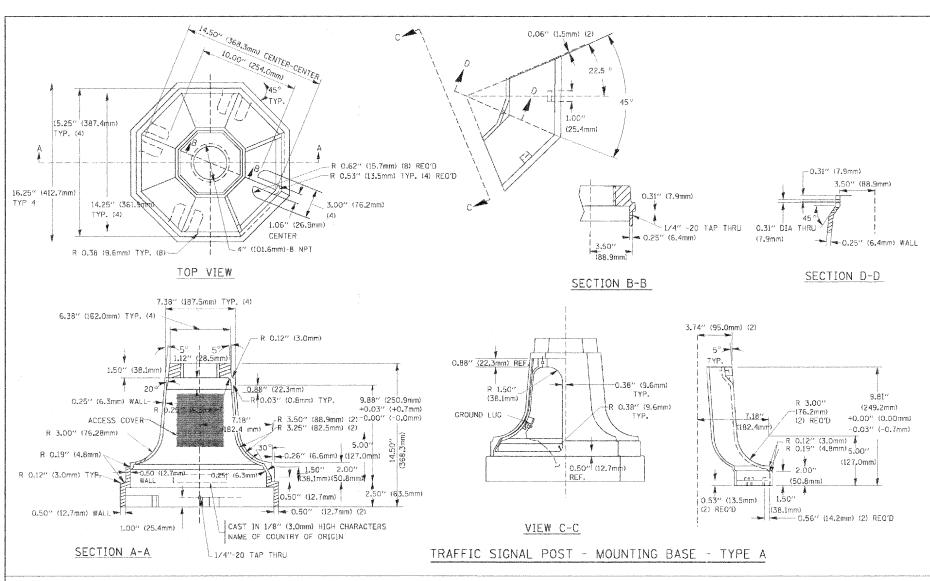
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 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.

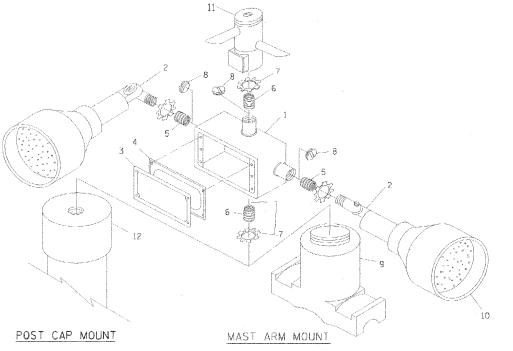
NOTES:

- 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.

FILE NAME -	USER NAME - kanthapluxaybo	DESIGNED - DAG	REVISED -		DISTRICT 1	F.A.P SECTION COUNTY TOTAL SHEET
c:/pw_work/PWIBOT/KANTHAPHIXAY8C/dØ1126	4\traffic.legend.v7.dgn	DRAWN - BCK CHECKED - DAD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS	335 11-00114-00-CH McHENRY 56 33
	PLOT BATE = 10/6/2009	DATE - 10/28/09	REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE: SHEET NO. 2 OF 6 SHEETS STA. TO STA.	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT







EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

PLOT SCALE - 20.0000 1/ IN

PLOT DATE = 10/6/2009

DESIGNED

CHECKED

DRAWN

DATE

DAG

BCK

10/28/09

DAD

REVISED

REVISED

REVISED

REVISED

NAMI

ITEM	NO. IDENTIFICATION
1	OUTLET BOX- GALY, 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾''(19 mm) CLOSE NIPPLE
7	¾4"(19 mm) LOCKNUT
8	兆"(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.]

- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM *2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM *9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM *9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 34"(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

SCALE

	, , , , , , , , , , , , , , , , , , ,					
	DISTRICT 1	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
т.	ANDARD TRAFFIC SIGNAL DESIGN DETAILS	335	11-00114-00-CH	McHENRY	56	35
) <i>F</i>	ANDARD TRAFFIC STONAL DESIGN DETAILS			CONTRACT	NO. 6	3551
F.	SHEET NO. 4 OF 6 SHEETS STA. TO STA.	FFD BC	AD DIST NO THEINDIS FED A	ID PROJECT		

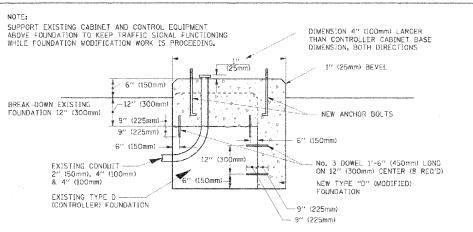
HANDHOLE TO INTERCEPT EXISTING CONDUIT

(75mm) **-** 8 R0.50' R11.81" DRAIN 0.25" (6mm) 0.23"(5mm) -- 0.31/(8mm) MATERIALS - 0.20"(5mm) ASTM A36 STEEL ASTM A-123 HOT DIPPED GALVANIZED

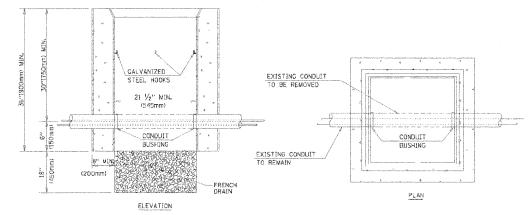
Α-	8	С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 ibs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37'(940mm)	7'' (178mm) - 12'' (300mm)	126 lbs (57 kg)

SHROUD

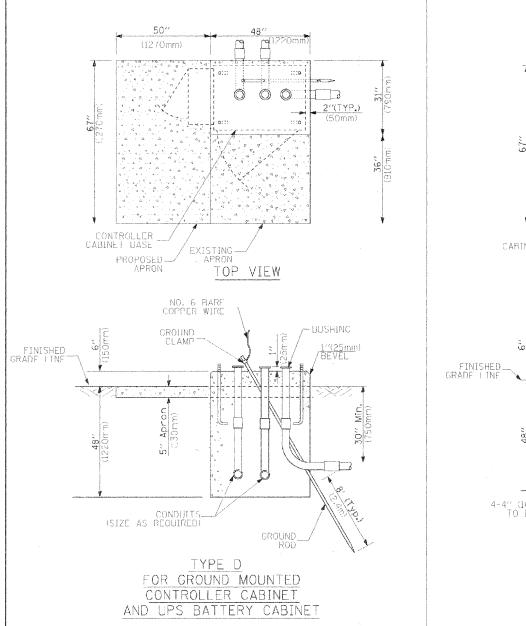
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD,
 THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- 2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- 3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM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

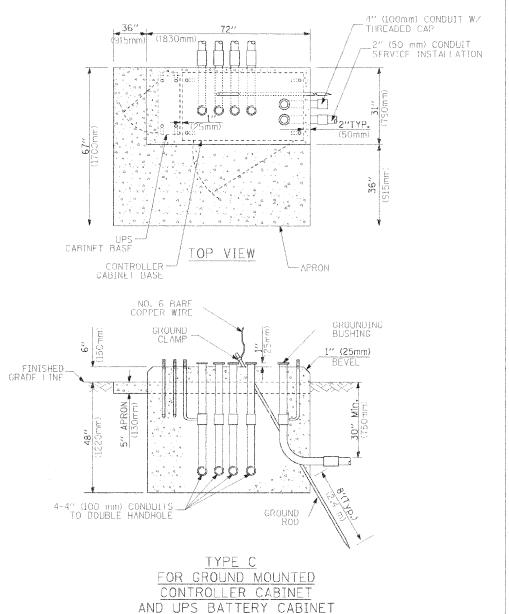


MODIFY EXISTING TYPE "D" FOUNDATION



- 1. 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.





	65" (SFF_NOTE_4) (1651mm)	
	49" (SFF_NOTE_3) 1245mm)	_SEE NOTE 5
	16" 44" (406mm) (1118mm)	(51 mm)
· · ·	21/2 ⁴ 164mm) 10	
J.	72 (S) (64mm) (1/25mm) (1/25mm)	26." 51." 78." m.n.
+		
2" × 6" (51mm × 152mm)		(51 mm)
WOOD FRAMING (TYP.)		<u>S</u>
		-TRAFFIC SIGNAL CONTROLLER CABINET
		CONTROLLER CABINET
UPS CABINET		
		<u>∜₁" (19mm) TRFATED</u>
·		PHYWOOD DECK
	e e	2" × 6" (51mm × 152mm) TREATED WOOD
e. Posta		
		(205mm)
*	1000 1000 1000 1000 1000 1000 1000 100	200
		(min / Vin /
		48° MIN
	Y Y	
NOTES:		6" × 6" (152mm × 152mm)
A Court of the Court of Court	YPE IV WITH BASE DIMENSIONS OF 2 ABINET BASE DIMENSIONS BEING SUPP	TREATED WOOD POSTS 6" x 44" (660mm x 1118mm).
ADJUST PLATFORM SIZE TO FIT C.	ABINET BASE DIMENSIONS BEING SUPP	PLIED.

- 2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF $16'' \times 25''$ (406mm \times 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	G.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

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

DEPIH 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)
Creater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6 _e 4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0'' (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

- These foundation depths are for sites which have cohesive soils (clayer silt, sandy clay, etc.) along
 the length of the shaft, with an average Unconfined Compressive Strength (0.0) > 1.0 tsf (100 kpc).
 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
 testing if attern positive preservations.
- 2. Combination mast arm assembles under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination most arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
- 4. For most arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

COUNTY TOTAL SHEET NO. MCHENRY 56 36

CONTRACT NO. 63551

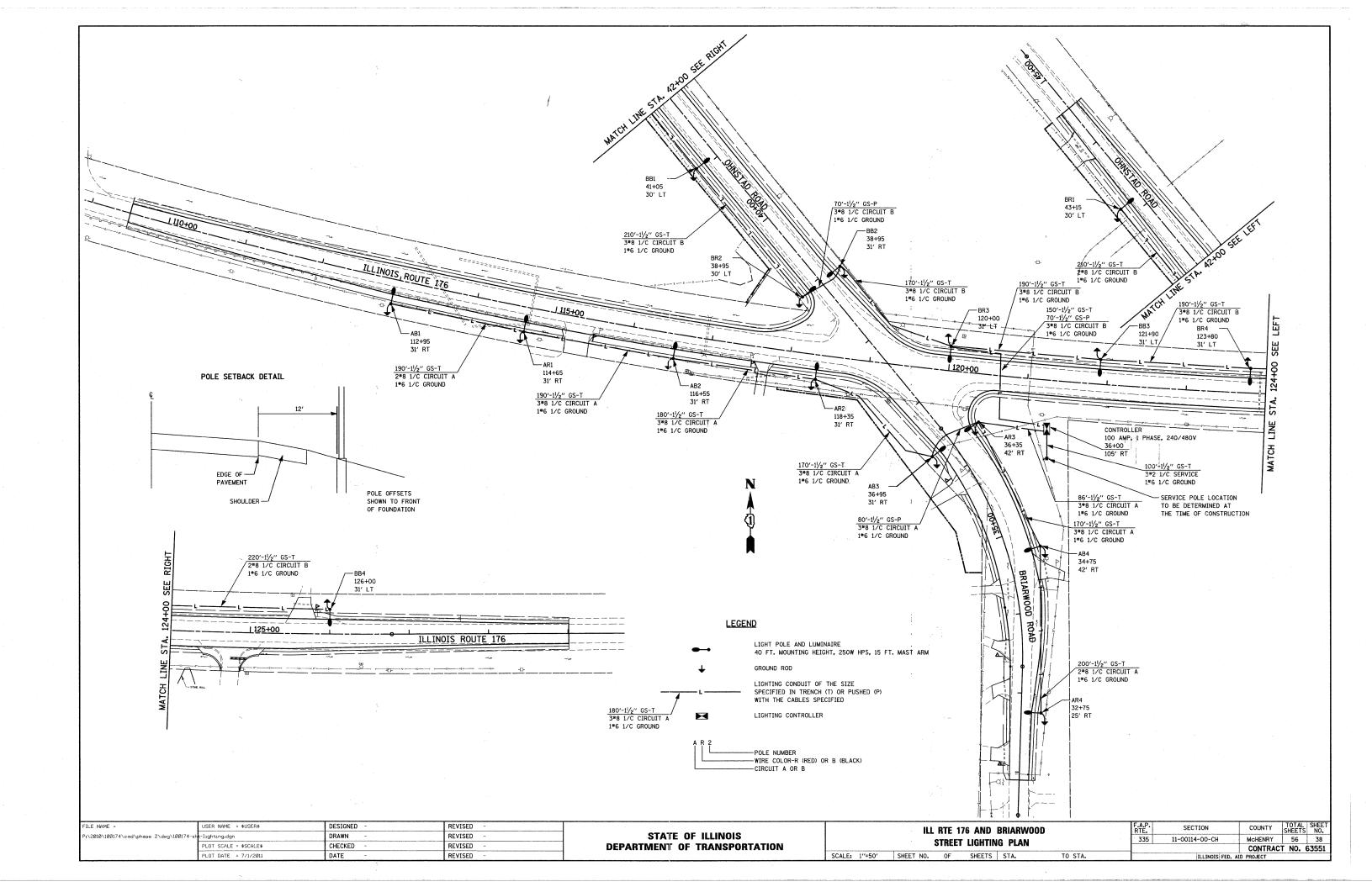
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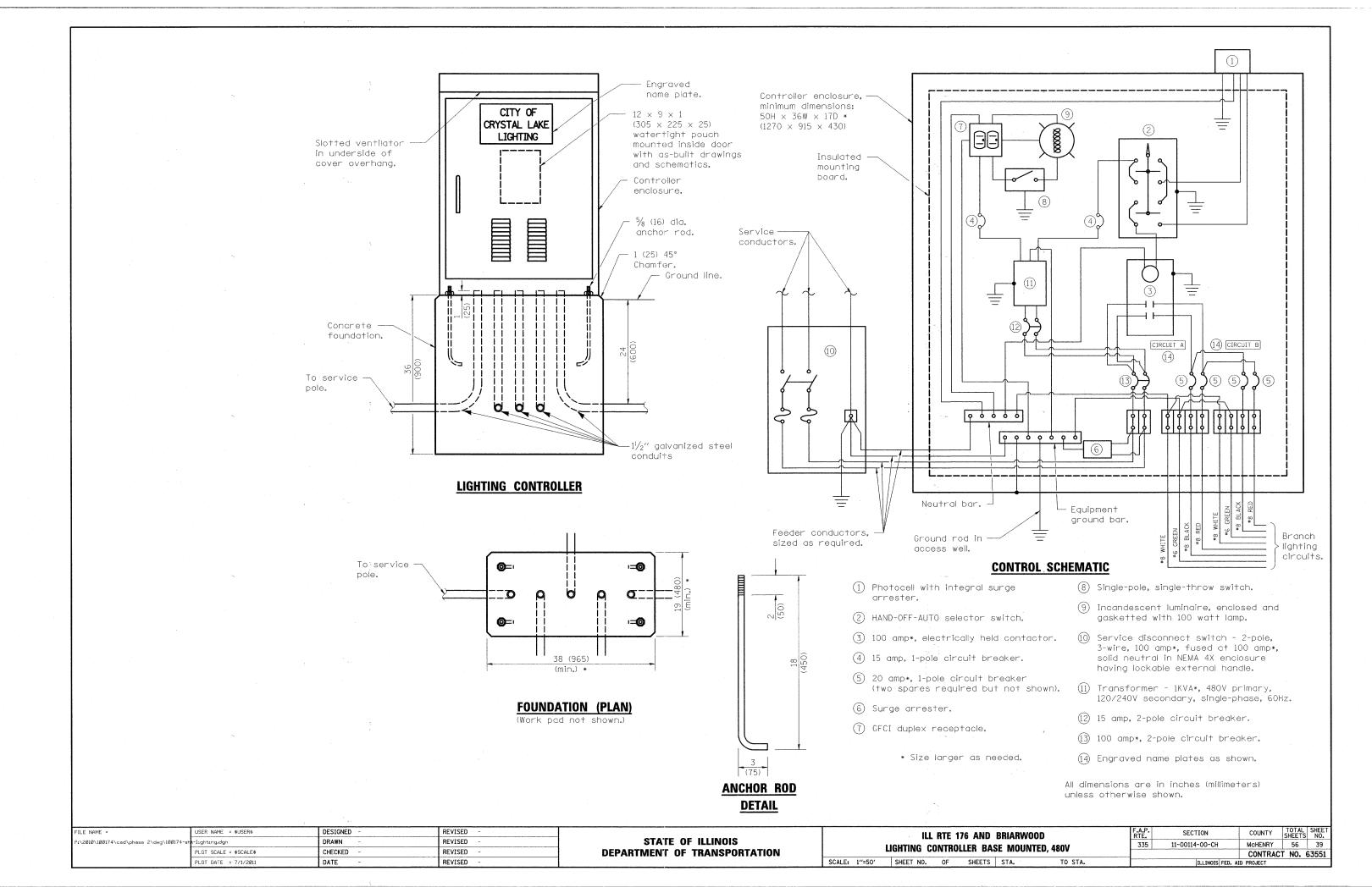
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

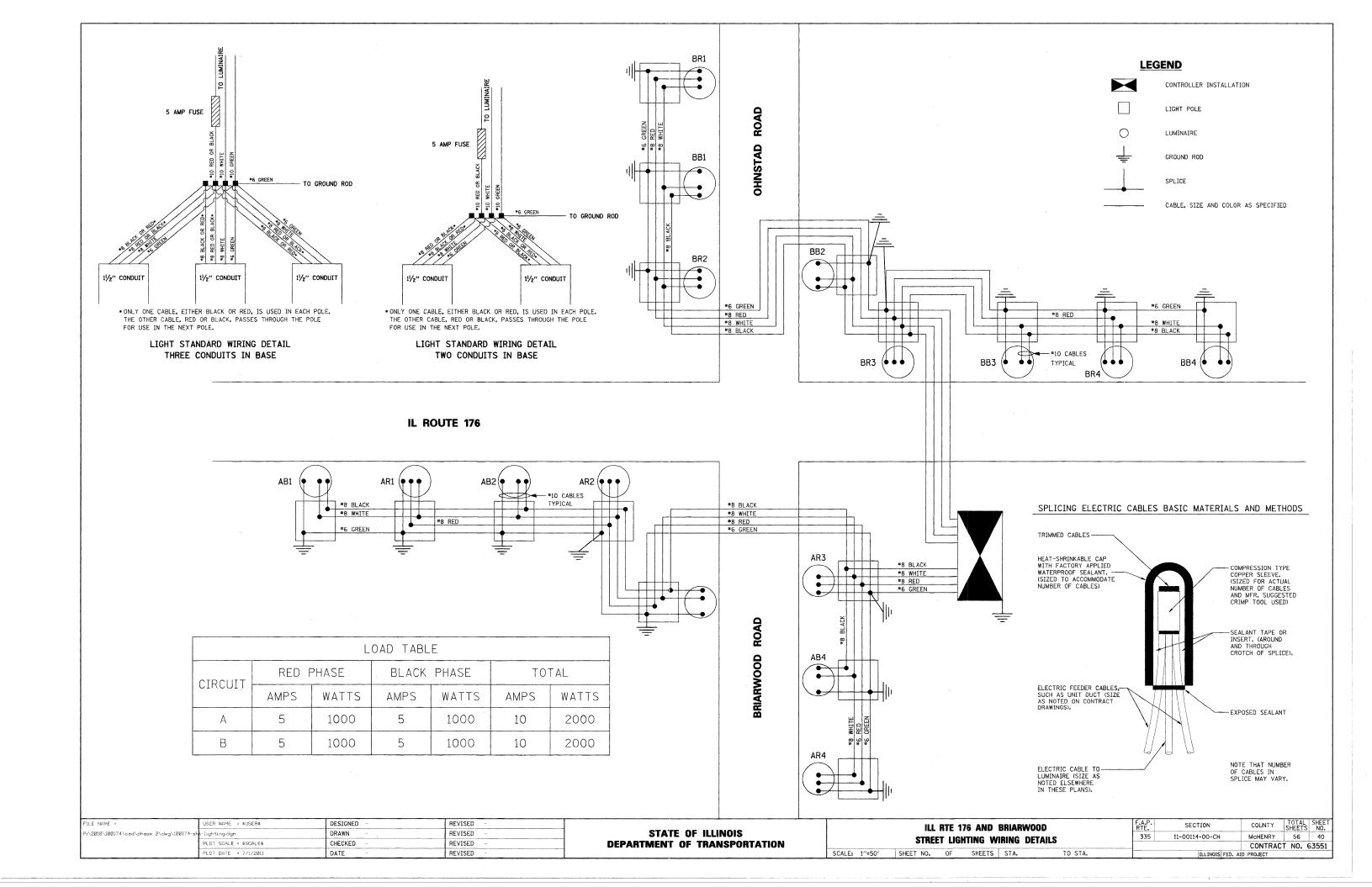
	DISTRICT 1	F.A.P RTE.	SEC	TION	COUNTY
	STANDARD TRAFFIC SIGNAL DESIGN DETAILS	335	11-00114	I-00-CH	McHENR
	STANDARD TRAFFIC STONAL DESIGN DETAILS				CONTRA
SCA	LE: SHEET NO. 5 OF 6 SHEETS STA. TO STA.	FED, R	DAD DIST, NO.	ILLINOIS FED. A	ID PROJECT

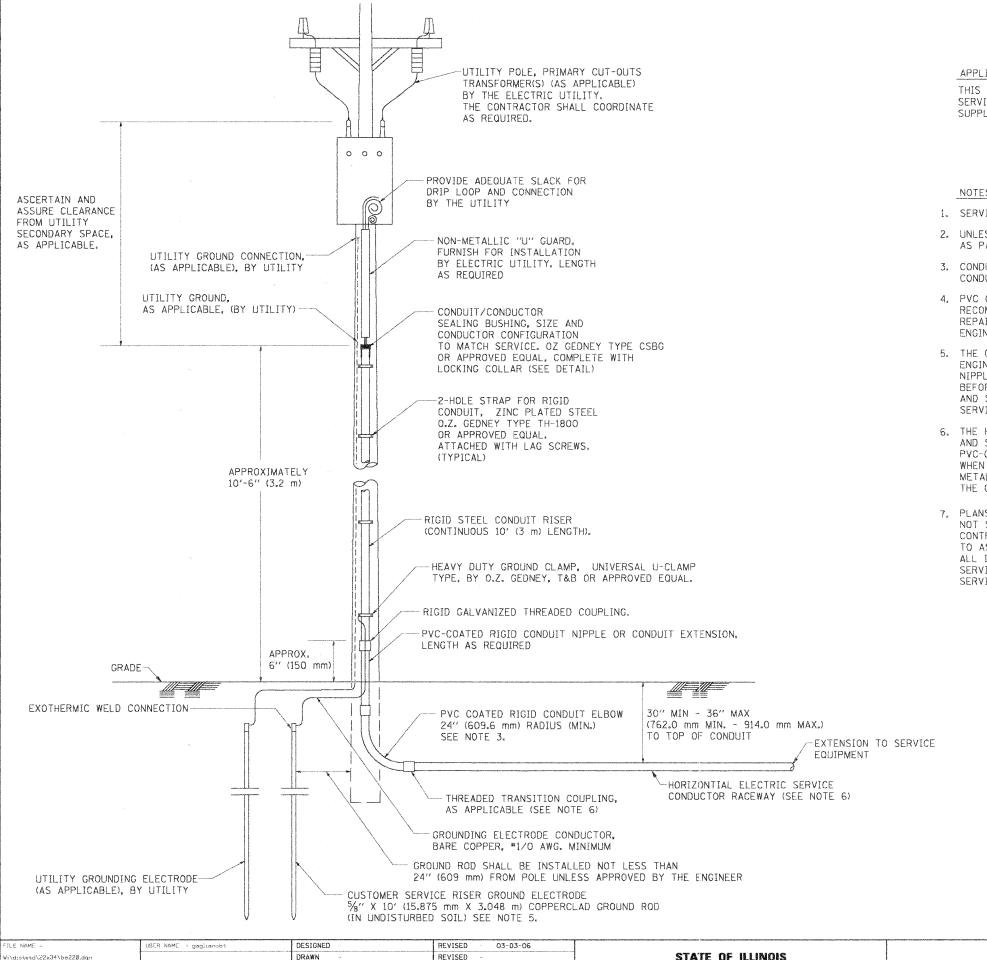
TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	⊠ [₹]		> -4	EMERGENCY VEHICLE LIGHT DETECTOR.	Re≺J	⊗ <∫		ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		—(i)—	 1)
RAILROAD CONTROL CABINET	Ni	N >< N		CONFIRMATION BEACON	Ro (o (]	₽(NO. 14 I/C, UNLESS NOTED OTHERWISE		<i>/~/</i>	_
COMMUNICATIONS CABINET	CC R	(EC C	CC	WANDUOLE.	R	677	K-7	COAXIAL CABLE		—(©)—	— <u>©</u> —
MASTER CONTROLLER		[FMC]	MC	HANDHOLE						~/	
MASTER MASTER CONTROLLER	p	FMMC.	MMC	HEAVY DUTY HANDHOLE	R			VENDOR CABLE FOR CAMERA		()	
UNINTERRUPTIBLE POWER SUPPLY	[UPS]	EUPS) .	UPS	DOUBLE HANDHOLE	R			COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		<u>—6</u> —	6)
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	⊣T ^R	17 P	<u> </u>	JUNCTION BOX GALVANIZED STEEL CONDUIT	R D	[0]	O	FIBER OPTIC CABLE NO. 62.5/125, MM12F		Ø	
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	K	i→ [T]	P	IN TRENCH (T) OR PUSHED (P) TEMPORARY SPAN WIRE, TETHER WIRE,	я		barra minis remir ambia ya	FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		(ai)	24F)
STEEL MAST ARM ASSEMBLY AND POLE	R O	Ŏ	•	AND CABLE	A THE STATE OF THE			FIBER OPTIC CABLE NO. 62.5/125,			
ALUMINUM MAST ARM ASSEMBLY AND POEE	Ka==-	(<u>)</u>		COMMON TRENCH			СТ	(NUMBER OF FIBERS & TYPE TO BE		-55-	
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	^R o ¤	Oscini Commissione and an action	◆ ※	COILABLE NONMETALLIC CONDUIT (EMPTY) SYSTEM ITEM		5	CNG S	NOTED ON PLANS) GROUND ROD AT (C) CONTROLLER,		C	C 41
STEEL COMBINATION MAST ARM	R	Q————— [FTZ]:)	PIZ	INTERSECTION ITEM		1	ΙP	(H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		-	t 9
ASSEMBLY AND POLE WITH PTZ CAMERA SIGNAL POST	PiZI H	O		REMOVE ITEM	R			CONTROLLER CABINET AND	RCI		
TEMPORARY WOOD POLE (CLASS 5 OR	^k O	· · · · · · · · · · · · · · · · · · ·	\$	RELOCATE ITEM	RL			FOUNDATION TO BE REMOVED			
BETTER) 45 FOOT (13.7m) MINIMUM GUY WIRE	\& > <u>₹</u>	>	<u> </u>	ABANDON ITEM 12" (300mm) TRAFFIC SIGNAL SECTION	A	(R)	[a]	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	C RMF		
	R			12 GOOTHIN TRAFFIC SIGNAL SECTION			R	ALUMINUM MAST ARM POLE AND	RMF Q == -		
SIGNAL HEAD SIGNAL HEAD CONSTRUCTION STAGES	Ď	- >- }	2	12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		(R)	1979 1873 1844	FOUNDATION TO BE REMOVED STEEL COMBINATION MAST ARM ASSEMBLY	THOSE		
(NUMBERS INDICATE THE CONSTRUCTION STAGE) SIGNAL HEAD WITH BACKPLATE	R +1>	-H>>-	+			R	R	AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	O-XX		
SIGNAL HEAD OPTICALLY PROGRAMMED	H [>-′′P′′	Ez>vpv	-p"	SIGNAL FACE		(6)	G G	SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF oc.	· · · · · · · · · · · · · · · · · · ·	
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R O-D>/'F''	O€>″F″	• F'			o production of the state of t	4 Y	INTERSECTION & SAMPLING	Æssi. Luga		12
PEDESTRIAN SIGNAL HEAD	1	To the second	a-rea				R	(SYSTEM) DETECTOR SAMPLING (SYSTEM) DETECTOR	1 B		S
PEDESTRIAN PUSHBUTTON DETECTOR	R (iii)	@	®	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD			Y G	EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	SD.	[P]	Senteman entit
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	®APS ∶	⑥ APS			We was	4 Y 4 G	EXISTING PREFORMED INTERSECTION LOOP DETECTOR	VK.	[PP]	
ILLUMINATED SIGN "NO LEFT TURN"	R (5)	6)	9	12" (300mm) PEDESTRIAN SIGNAL HEAD		[DW]	<i>«</i> Ри	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR PREFORMED INTERSECTION AND SAMPLING	PR		·
ILLUMINATED SIGN	R (B)		₩	WALK/DON'T WALK SYMBOL				(SYSTEM) DETECTOR		115	PIS
"NO RIGHT TURN" DETECTOR LOOP, TYPE I	[247]			12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR		[PS]	PS
PREFORMED DETECTOR LOOP		1 1 1 1	P	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			₽	RAILROAD	SYMBO	LS	
MICROWAVE VEHICLE SENSOR	KMD		M a	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER			C A D			EXISTING	PROPOSED
VIDEO DETECTION CAMERA	^R .√h	(Ý)	(V)	RADIO INTERCONNECT	lliko.	##+0		RAILROAD CONTROL CABINET		i X	
VIDEO DETECTION ZONE						4.0		RAILROAD CANTILEVER MAST ARM	X	(O <u>X</u> = X X	XOX X
	R_			RADIO REPEATER	RERR	ERR	RR	FLASHING SIGNAL		707	X -X
PAN, TILT, ZOOM CAMERA	PW)	Fizh Ga		DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		-5-	(5)	CROSSING GATE		X0X>>	X
WIRELESS DETECTOR SENSOR WIRELESS ACCESS POINT	R R		(W)	GROUND CABLE IN CONDUIT		(1)	(1)	CROSSBUCK		**	*
BI NAME = IERR NAME = kenthophoxey		DESIGNED DAG/BCK	REVISED	NO. 6 SOLID COPPER (GREEN)			754		F.A.P	CCCTAON	COUNTY TOTAL SH
#*\pww.work\PWIDOT\KANTHAPHIXAYBC\dilita6#*\dilita6#*\pww.work\PWIDOT\KANTHAPHIXAYBC\dilita6#*\d		DRAWN - BCK CHECKED DAD	REVISED -	STATE DEPARTMENT O	OF ILLINOIS			DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS	RTE,	SECTION 11-00114-00-CH	COUNTY SHEETS N MCHENRY 56 37 CONTRACT NO. 6355





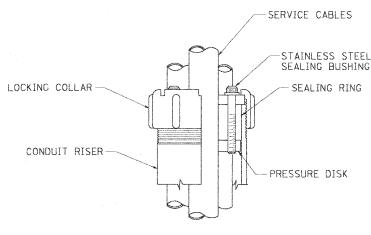




APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

- 1. SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- 2. UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- 3. CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- 4. PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- 5. THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- 6. THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.



SEALING BUSHING DETAIL

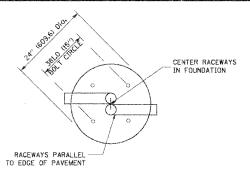
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

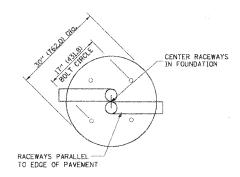
SECTION COUNTY SHEETS NO. **ELECTRIC SERVICE INSTALLATION** MCHENRY 11-00114-00-CF **AERIAL, REMOTE DISCONNECT** CONTRACT NO. 63551 BE-220 SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

LIGHT POLE FOUNDATION DEPTH TABLE 40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "	DESIGN DEPTH "D" OF FOUNDATION				
SOIL COMPLIENS	SINGLE ARM POLE	TWIN ARM POLE				
SOFT CLAY	13'-0"	15'-0"				
Qu = 0.375 TON/SQ, FT,	(3.96 m)	(4.57 m)				
MEDIUM CLAY	9'-6''	10'-9''				
Qu = 0.75 TON/SQ.FT	(2.09 m)	(3.23 m)				
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-0'' (2.13 m)	8'-0'' (2.44 m)				
LOOSE SAND	9'-0''	10'-0"				
Ø = 34°	(2,74 m)	(3,05 m)				
MEDIUM SAND	8'-3''	9'-0''				
Ø = 37.5°	(2.52 m)	(2.74 m)				
DENSE SAND	7'-9''	9'-0"				
Ø = 40°	(2.36 m)	(2.74 m)				



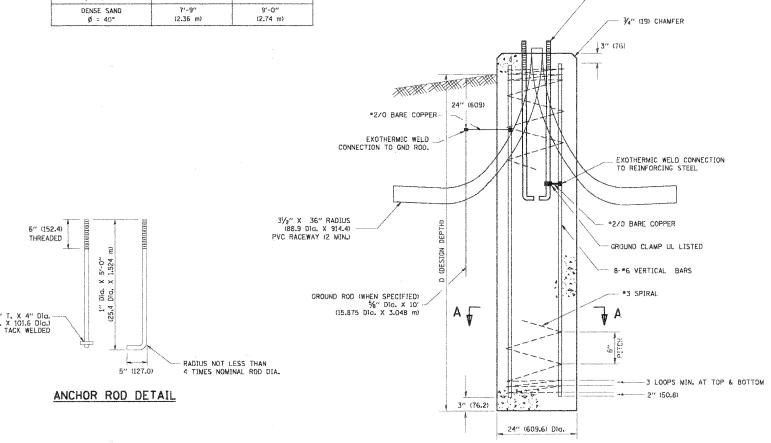
TOP VIEW



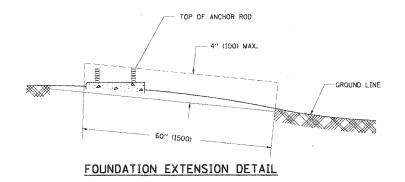
TOP VIEW

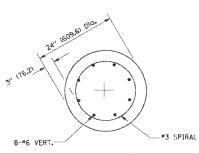
ANCHOR ROD 4-1" Dla. X 5'-0"

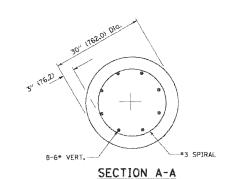
(4-25.4 Dig. X 1.524 m)











SCALE:

SECTION A-A

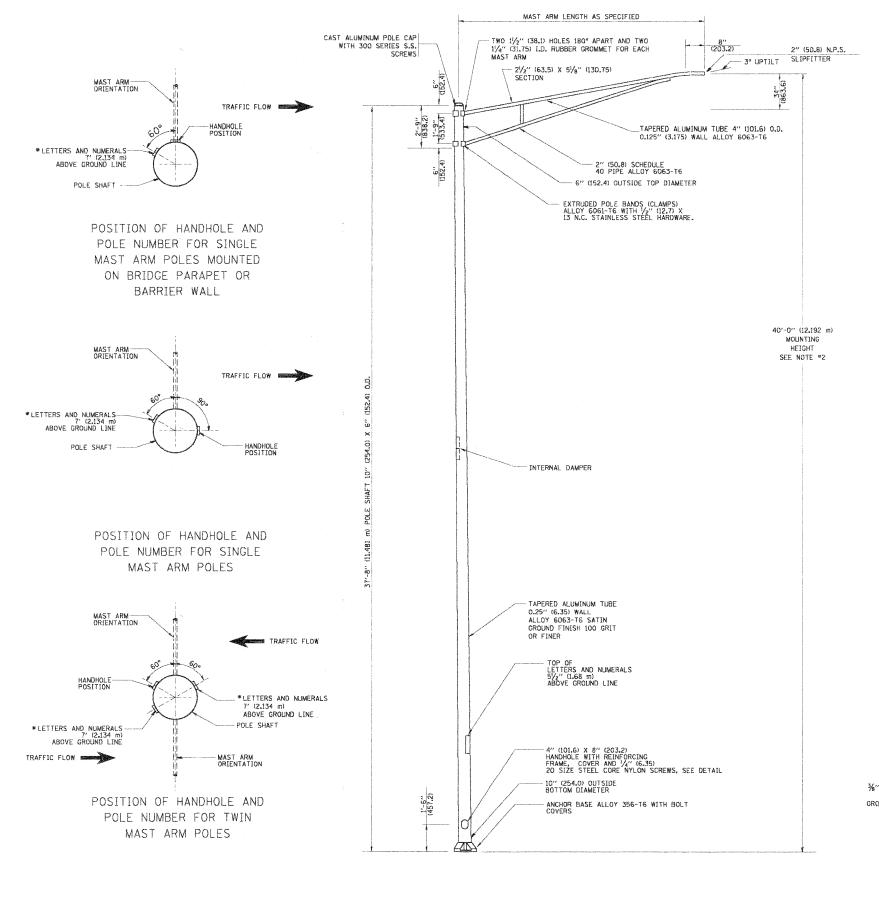
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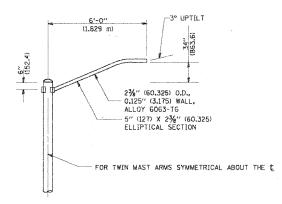
- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
- 3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- 4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION, IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- 5. THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL, A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP
- 6. THE CONCRETE SHALL BE CLASS SI, CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- 7. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- 8. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105), NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UMG6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- 11. ANCHOR RODS SHALL PROJECT 2¾" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- 12. THE CONTRACTOR SHALL USE A *3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE *3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- 13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- 14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

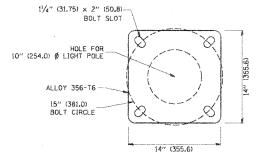
LIGHT POLE FOUNDATION	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
40' (12.192 m) TO 47 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE	335	11-00114-00-CH	McHENRY	56	42
40 (12.132 M) 10 47 V2 (14.470 M) M.H. 13 (301 MM) DOL1 CHICL		BE-301	CONTRACT	NO.	63551
NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. BO	DAD DIST, NO. 1 ILLINOIS FED. A	D PROJECT		



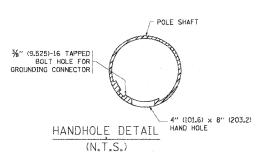


6' (1.8 m) SINGLE MEMBER MAST ARM (N.T.S.)

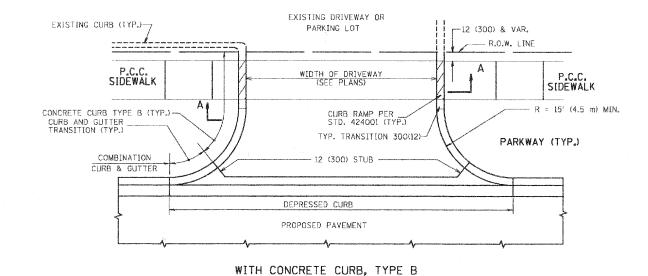
- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN,
- 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
- 3. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
- 4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2C23, T&B SPADL OR APPROVED EQUAL.
 5. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
- 6. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
- 7. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.

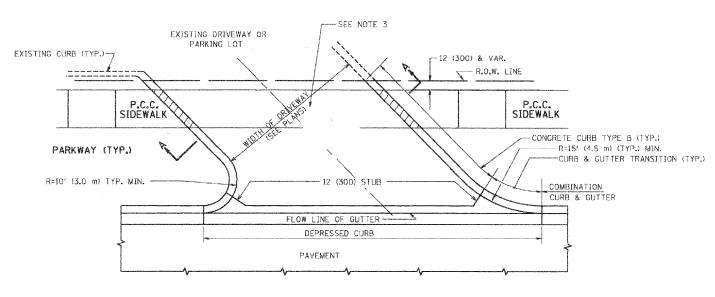


LIGHT POLE BASE PLATE DETAIL 15 INCH (381.0) BOLT CIRCLE

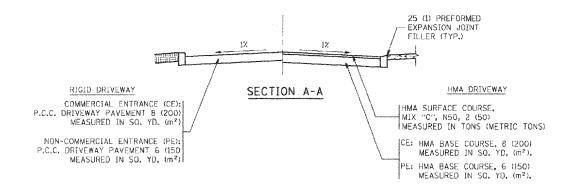


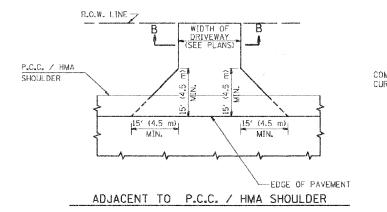
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	FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. TOMSONS 09-06-00	i i	ALUMINUM LIGHT POLE	F.A.P. SECTION	COUNTY	TOTAL SHE	ET
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		PLOT SCALE = 50.000 '/ IN,	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	40'-0" (12.192 m) MOUNTING HEIGHT	BE-401	CONTRACT	NO. 6355	51
		PLOT DATE = 1/4/2008	DATE -	REVISED -		SCALE; NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	The state of the s	AID PROJECT		

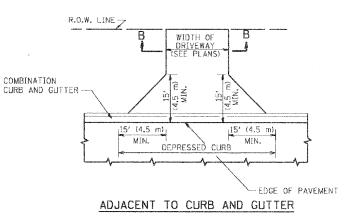


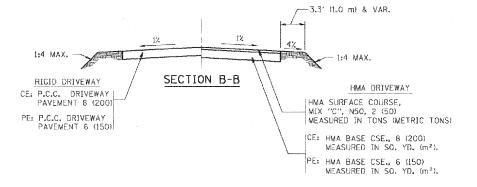


WITH CONCRETE CURB, TYPE B









RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE, MIX "C", N50, 2 (50) MEASURED IN TONS (METRIC TONS)

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

GENERAL NOTES:

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

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

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 8477 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

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

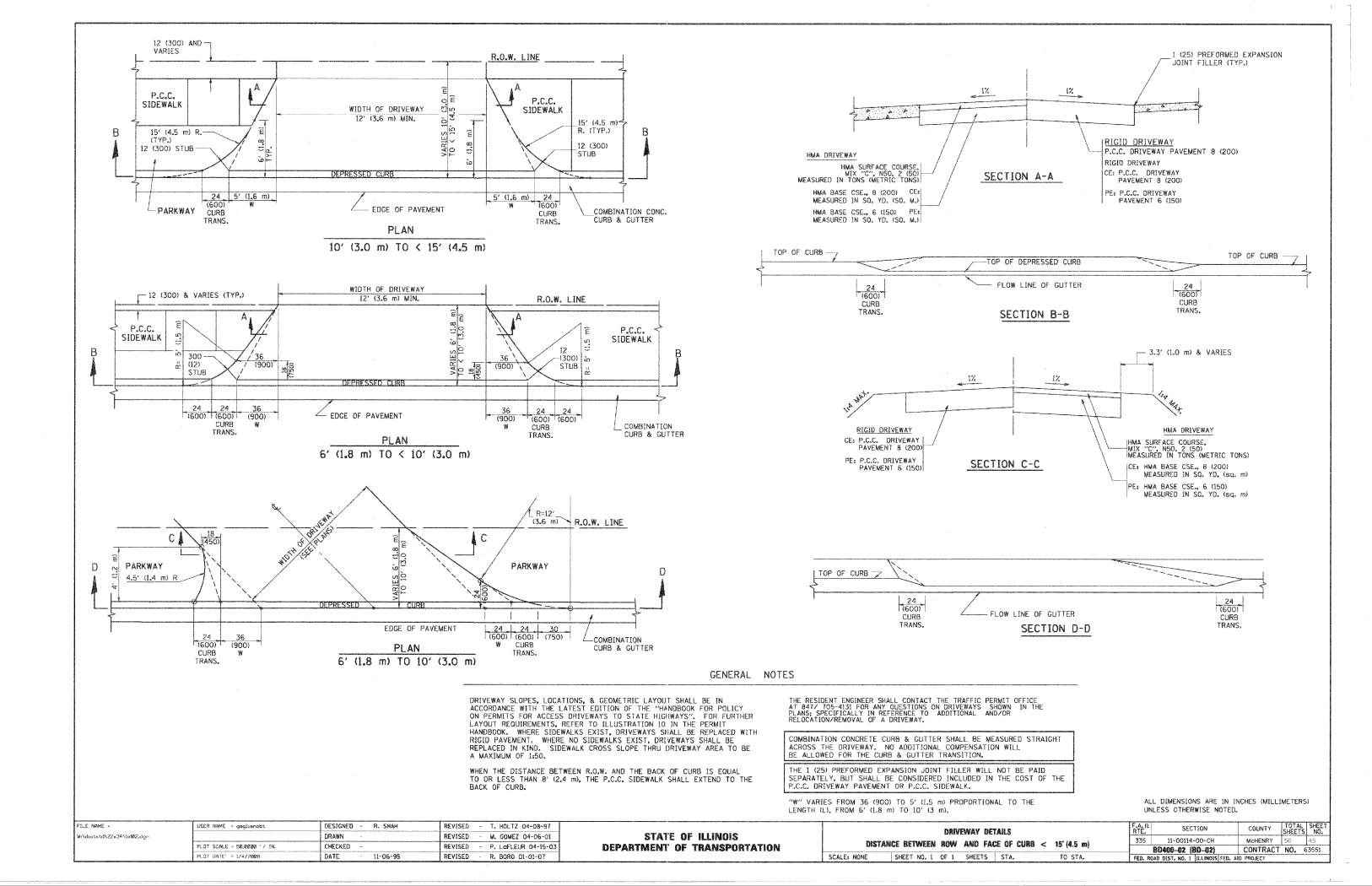
1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

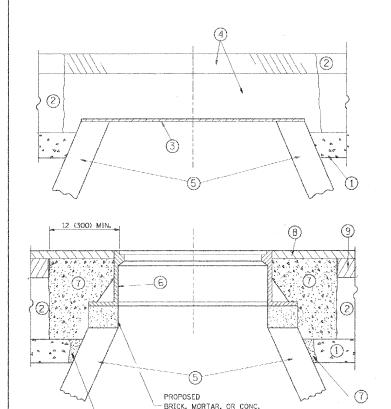
WHEN THE P.C.C, SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

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	PLOT SCALE = 49,9999 '/ IN.	CHECKED -	REVISED - R. BORO 01-01-07
	PLOT DATE = 6/12/2006	DATE - 11-04-95	REVISED - R. BORO 06-11-08

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS — DISTANCE BETWEEN R.O.W.	F.A. P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
AND FACE OF CURB & EDGE OF SHOULDER >= 15'(4.5 m)	335	11-00114-00-CH	MCHENRY	56	44
		BD0156-07 (BD-01)	CONTRACT	NO.	63551
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. R	OAD DIST, NO. 1 [ILLINOIS FED. A	ID PROJECT		





ADJUSTING RINGS

NOTES:

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

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

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

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

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

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE
- AROUND THE STRUCTURE.
 B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.

 D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 11/2 (40)
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 11/2 (40 THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

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

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

LEGEND

- 1 SUB-BASE GRANULAR MATERIAL
- (6) FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT
- (7) CLASS PP-1* CONCRETE
- (3) 36 (900) DIAMETER METAL PLATE

(5) EXISTING STRUCTURE

- (8) PROPOSED HMA SURFACE COURSE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- (9) PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

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

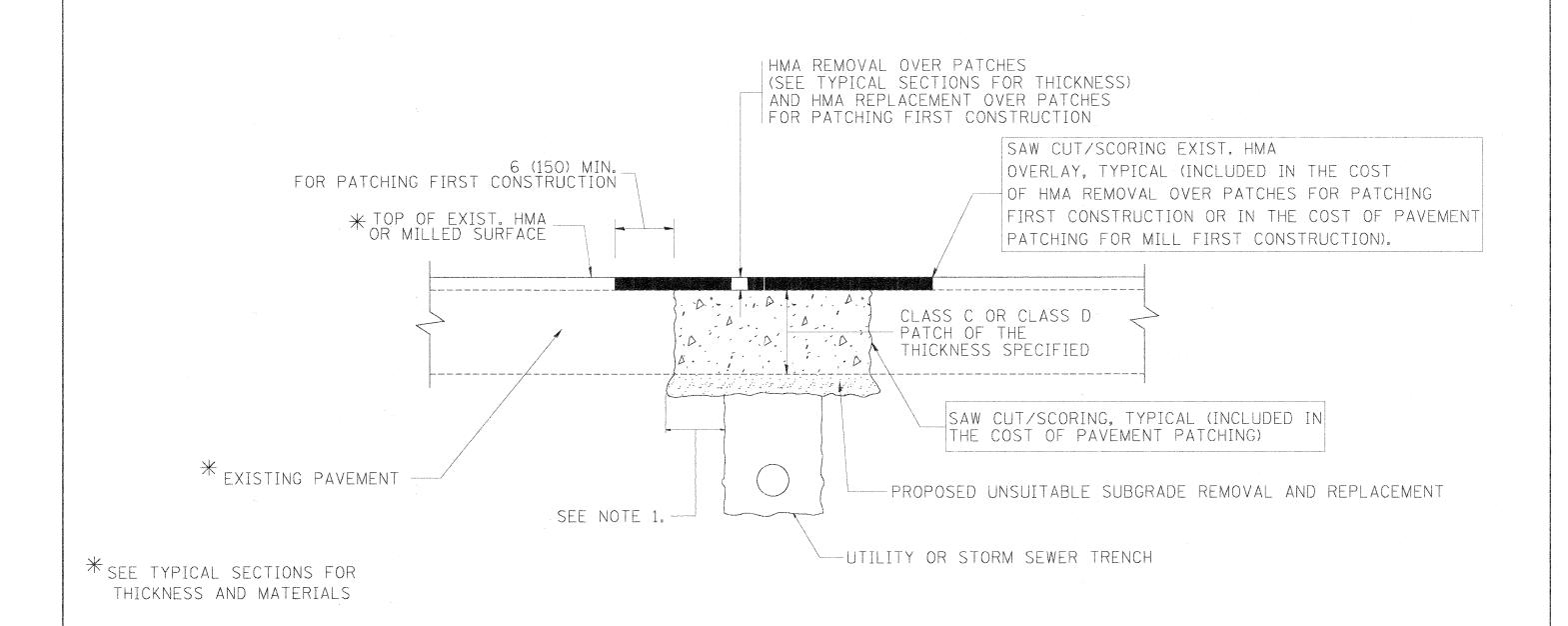
BASIS OF PAYMENT:
THIS WORK WILL BE PAID FOR AT
THE CONTRACT UNIT PRICE PER EACH FOR
"FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"
NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL
BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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	PLOT SCALE - 49,9999 '/ IN.	CHECKED -	REVISED - R. BORO 01-01-07	DEPARTMENT OF TRANSPORTATION
	PLOT DATE -= 3/18/2011	DATE 10-25-94	REVISED R. BORO 03-09-11	
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		DETAILS FOR										
	FRAMES	AND	LIDS	ADJUSTN	IENT WITH	MILLING						
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NOTES:

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

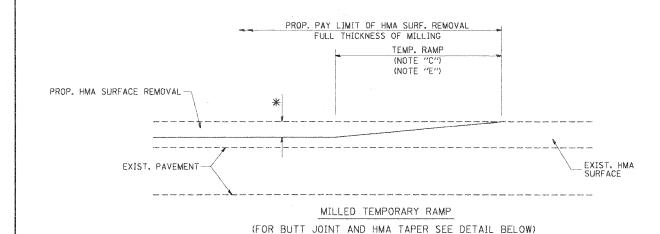
SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

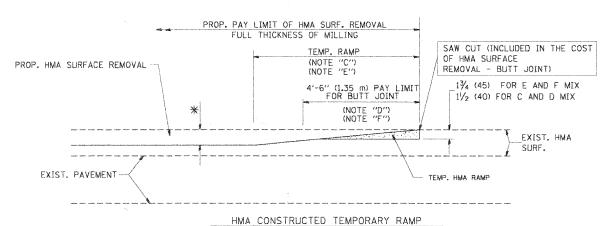
SEQUENCE OF CONSTRUCTION (MILLING FIRST)

- 1. MILL HMA FIRST IF THERE IS AT LEAST 41/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

FILE NAME =	USER NAME = bauerdi	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98		PAVEMENT PATCHING FOR	F.A.P. SECTION	COUNTY TOTAL SHEET
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	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION		BD400-04 (BD-22)	CONTRACT NO. 63551
	PLDT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AI	ID PROJECT



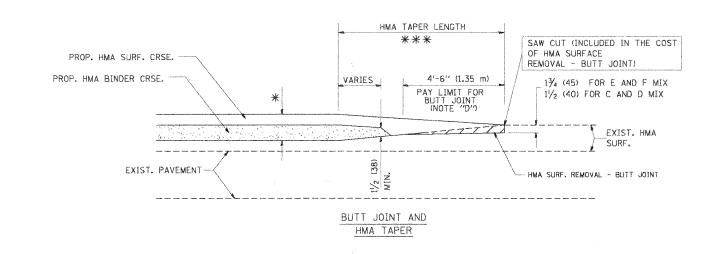
OPTION 1



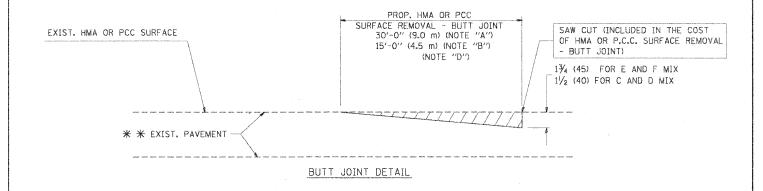
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

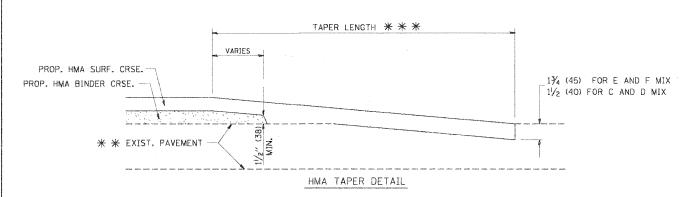
OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

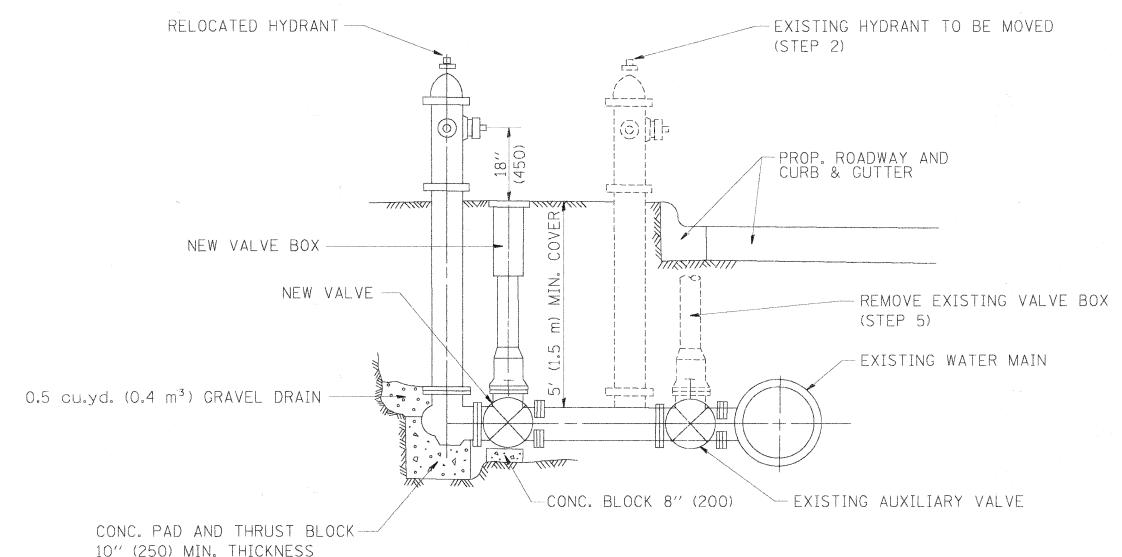
NOTES

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

BASIS OF PAYMENT:

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

L							
FILE NAME =	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94		BUTT JOINT AND	F.A.P. SECTION	COUNTY TOTAL SHEET
W:\distatd\22x34\bd32.dgn		DRAWN	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS	· ·	335 11-00114-00-CH	MCHENRY 56 48
	PLDT SCALE = 50,0000 1/ 1N.	CHECKED -	REVISED - M. GOMEZ 04-06-01	DEPARTMENT OF TRANSPORTATION	HMA TAPER DETAILS	BD400-05 BD32	CONTRACT NO. 63551
	PLDT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		AID PROJECT



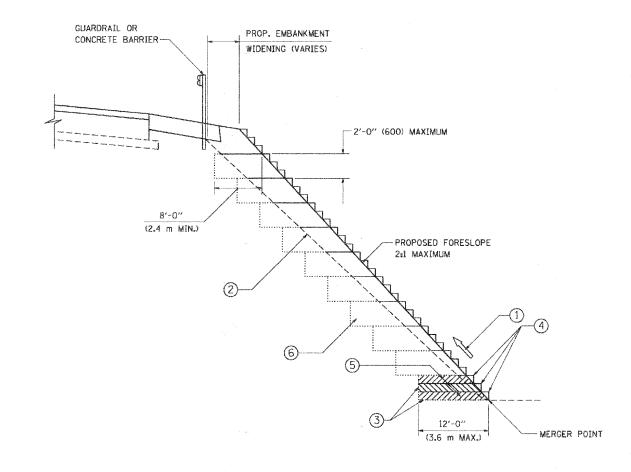
SEQUENCE OF CONSTRUCTION:

- 1. CLOSE EXISTING VALVE.
- 2. REMOVE EXISTING HYDRANT.
- 3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
- 4. RELOCATE EXISTING HYDRANT.
- 5. OPEN EXISTING VALVE, REMOVE BOX.
- 6. BACKFILL.
- 7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

FIRE HYDRANT TO BE MOVED

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. SHAH 09-09-94		FIRE HYDRANT TO BE MOVED		
W:\diatetd\22x34\bd36.dgn		DRAWN	REVISED - R. SHAH 10-25-94	STATE OF ILLINOIS	LINE ULDINAME TO BE MORED	335 11-00114-00-CH	MCHENRY 56 49
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	1	80-36	CONTRACT NO. 63551
T	PLDT DATE = 1/4/2008	DATE -	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT

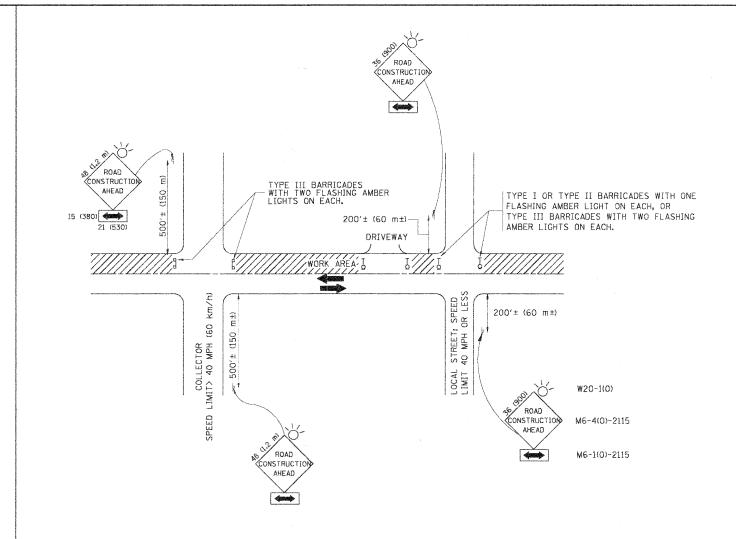


TYPICAL BENCHING DETAIL FOR EMBANKMENT

NOTES:

- ONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- (3) BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- 4) TRIM TO FINAL SLOPE.
- (5) EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". 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).

1							ONCESS CHICKNISE SHORM	•
FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED -			BENCHING DETAIL	F.A.P. SECTION	COUNTY TOTAL SHEET
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	PLOT SCALE = 50.0000 '/ IN.	CHECKED - S.E.B.	REVISED ~	DEPARTMENT OF TRANSPORTATION		FOR EMBANKMENT WIDENING	BD-51	CONTRACT NO. 63551
	PLOT DATE = 1/4/2008	DATE - 06-16-04	REVISED -		SCALE: NONE SHE	ET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED.	
								Name of the Control o



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:
- Q) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINCLE 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.

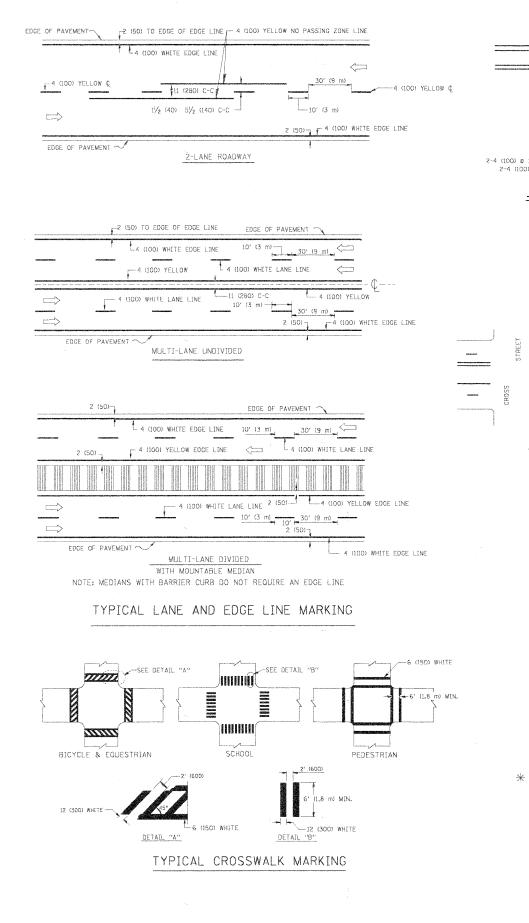
All dimensions are in millimeters (inches)

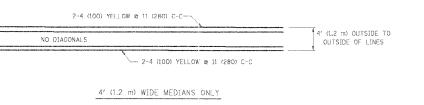
T	FILE NAME =	USER NAME = gaglianobt	DESIGNED - LHA	REVISED	- J. OBERLE 10-18-95
ŀ	₩:\d:ststd\22x34\to10.dgm		DRAWN	REVISED	- A. HOUSEH 03-06-96
		PLOT SCALE × 50.000 '/ IN.	CHECKED -	REVISED	- A. HOUSEH 10-15-96
L		PLOT CATE = 1/4/2008	DATE - 06-89	REVISED	T. RAMMACHER 01-06-00

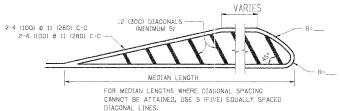
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	TR	AFFI	C	CON	TROI.	AND	PR	OTEC	TION	FOR		
	SIDE	ROA	DS	, IN	TERS	ECTION	IS, A	AND	DRIV	EWAYS	;	
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

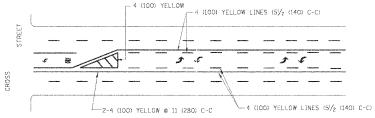






DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MFH (50 km/h))
75' (25 m) C-C 30MFH (50 km/h) TO 45MFH (70 km/h))
150' (45 m) C-C (MORE THAN 45MFH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

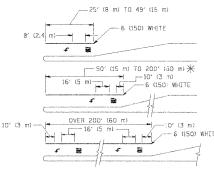


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

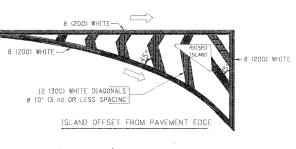
TYPICAL PAINTED MEDIAN MARKING

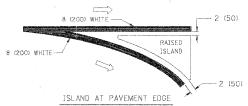


* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING





TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 & 4 (100)	SOLID	YELLOW	11 (290) C~C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 © 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (500) APART 2' (500) APART 5EE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN WARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 ml LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA 0F: "R"=3.6 SO. FT. (0.33 m ²) EACH "X"=54.0 SO. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) c 45°	SOLID	WHITE - RICHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h) 150' (45 m) C-C (OVER 45MPH (70 km/h))

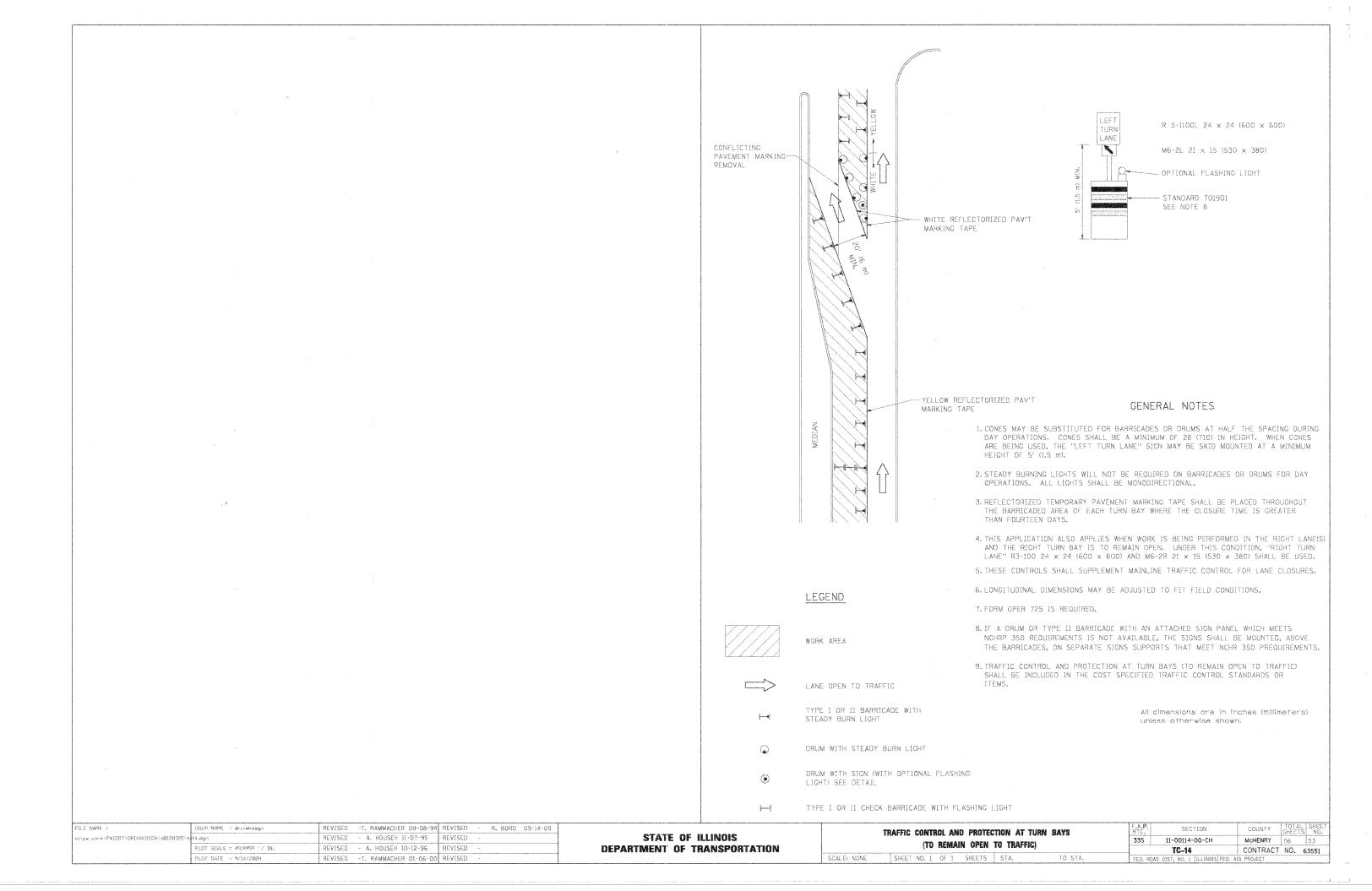
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

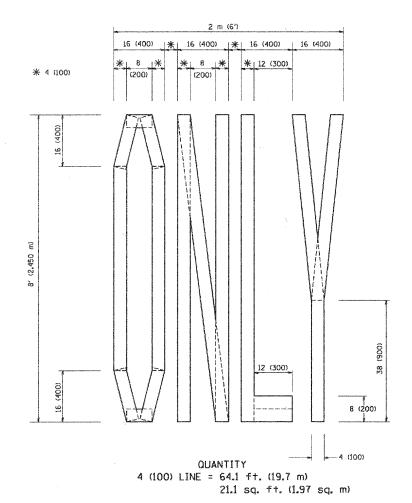
All dimensions are in inches (millimeters) unless otherwise shown.

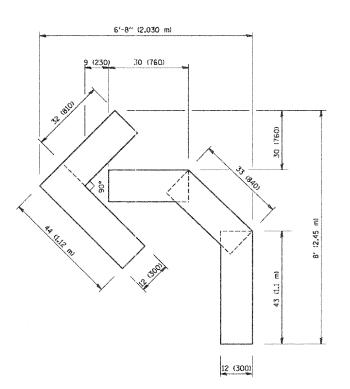
FILE NAME :	USER NAME = drivekosgn	DESIGNED	-	EVERS	REVISED	-T. F	RAMMACHER	10-27-94
c:/pw_work/pw:dot/dr:vakaagn/d0108315/to	3.dgm	DRAWN	-		REVISED	~C.	JUCIUS	09-09-09
	PLOT SCALE = 50.000 1/ IN.	CHECKED			REVISED	-		
	PLOT DATE = 9/9/2009	DATE		03-19-90	REVISED	-		

STATE	OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

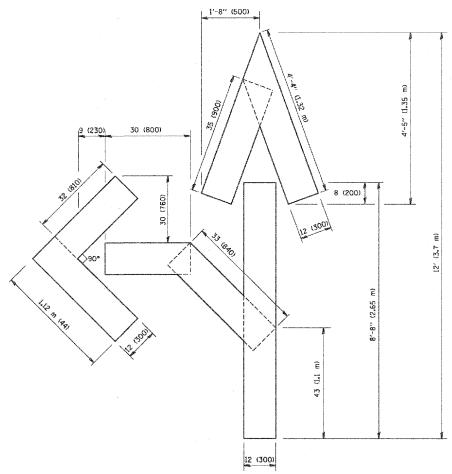
		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
TYPICAL PAVEMENT MARKINGS							11-00114-00-CH	MoHENRY	56	52
	1781	MA CIAICIA I		TC-13	CONTRACT	NO.	63551			
SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO. 1 ILLINOIS FED. AL	D PROJECT		







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



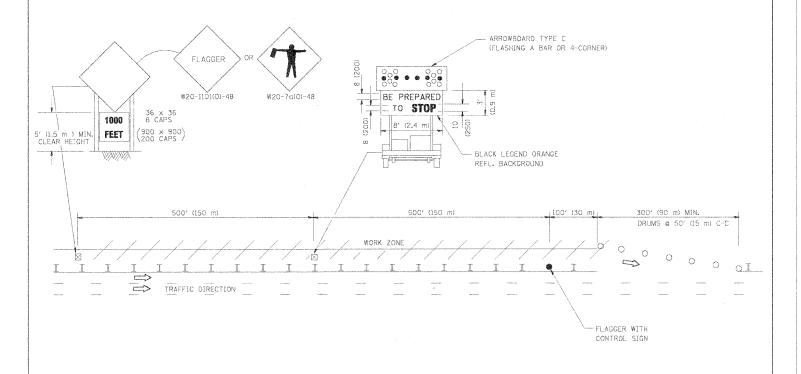
OUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

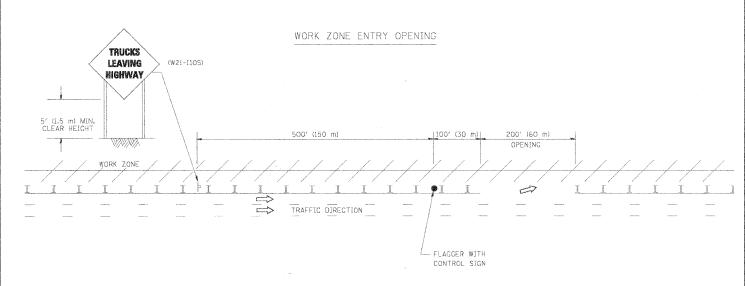
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAM	ME =	USER NAME = gaglianobt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96		PAVEMENT MARKING LETTERS AND SYMBOLS	F.A.P. SECTION	COUNTY TOTAL SHEET SHEETS NO.
₩r\distst	td\22x34\tcl6.dgn	D. G.Y. CONT. C. F. CO. C. C. L.	DRAWN -	REVISED -T. RAMMACHER 11-04-97	STATE OF ILLINOIS	FOR TRAFFIC STAGING	335 11-00114-00-CH	McHENRY 56 54
		PLOT SCALE = 50.0000 '/ IN. PLOT DATE = 1/4/2006	CHECKED - 09-18-94	REVISED -T. RAMMACHER 03-02-98 REVISED -E. GOMEZ 08-28-00	DEPARTMENT OF TRANSPORTATION	SCALE; NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED.	CONTRACT NO. 63551

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING





NOTES:

- 1. THE ARROWBOARD, THE FLAGGER AHEAD SIGN AND THE TRUCKS LEAVING HIGHWAY SIGN SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES.

 NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
- 2. WORK ZONE EXIT OPENINGS SHOULD BE A MINIMUM OF ONE HALF MILE APART.
- 3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
- 4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS

FILE NAME =	USER NAME = laysa	DESIGNED -	REVISED - J.A.F. 04-03		SIGNING FOR FLAGGING OPERATIONS	F.A.P. SECTION	COUNTY TOTAL SHEET SHEETS NO.
W:\distotd\22x34\tcl8.dgn	S .	DRAWN -	REVISED - J.A.F. 02-06	STATE OF ILLINOIS	AT WORK ZONE OPENINGS	335 11-00114-00-CH	McHENRY 56 55
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - S.P.B. 01-07	DEPARTMENT OF TRANSPORTATION	MI SANUE TAME ALEISUAS	TC-18	CONTRACT NO. 63551
	PLOT DATE = 1/26/2010	DATE -	REVISED - S.P.B. 12-09		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST, NO. 1 ILLINOIS FED. /	NID PROJECT



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

- 1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
- 2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
- 3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

DESIGNED REVISED C. JUCIUS 02-15-07 SECTION COUNTY FILE NAME = USER NAME = gaglianobt DRIVEWAY ENTRANCE SIGNING STATE OF ILLINOIS DRAWN REVISED 335 11-00114-00-CH McHENRY PLDT SCALE = 50.000 '/ IN. CHECKED REVISED **DEPARTMEN'T OF TRANSPORTATION** CONTRACT NO. 63551 TC-26 SHEET NO. 1 OF 1 SHEETS STA. DATE REVISED TO STA. PLOT DATE = 1/4/2008