### STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS** 

FOR INDEX OF SHEETS, SEE SHEET NO. 2

# **PROPOSED HIGHWAY PLANS**

**DESIGN DESIGNATION** 

**COLLECTOR (URBAN)** ADT 37,400 (2007) SPEED LIMIT 35 MPH

IMPROVEMENT LOCATED IN THE CITY OF ROLLING MEADOWS

FAP 339 / ILLINOIS ROUTE 62 (ALGONQUIN RD.) **SECTION 116-Y-2-BR-1** OVER SALT CREEK (0.7 MI. E. OF IL 53) **BRIDGE SUPERSTRUCTURE REPLACEMENT & ROADWAY IMPROVEMENT** PROJECT NUMBER: ACBRF-0339(027)

**COOK COUNTY** C-91-136-10

JUNE 30, 2010

JUNE 30, 2010

LINO 15, 116

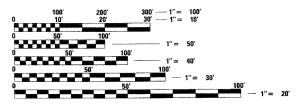
GKP. Nov. 30, 2011 **ELK GROVE TOWNSHIP** Range 11E - 3rd. PM LIN ENGINEERING, LTD., FRED M. LIN NO. 062-056704

**IMPROVEMENT LOCATION STRUCTURE NO: 016-0581** BEGIN PROJECT: STA. 95 + 01.21 **END PROJECT: STA. 102 + 72.44** 

**ILLINOIS ROUTE 62** 

(ALGONQUIN ROAD)

OVER SALT CREEK

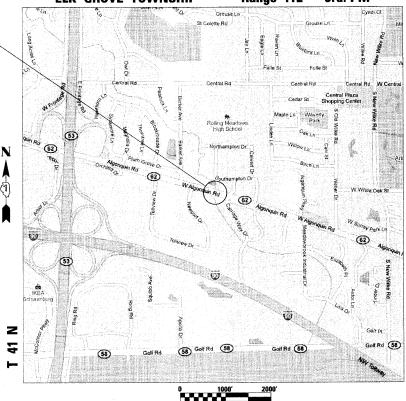


ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

OR 811

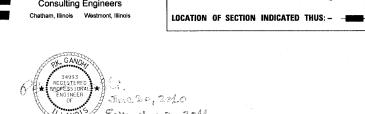
PROJECT MANAGER: ISAAC KWARTENG (847) 705-4230 PROJECT ENGINEER: JEAN-ALIX BRICE (847) 705-4552



**LOCATION MAP** 

GROSS AND NET LENGTH OF IMPROVEMENT = 771.23 FT. = 0.146 MILE

EXPIRES 11-30-2011 LIN ENGINEERING, LTD. Consulting Engineers







JAMES M. HAMELKA NO. 081-006116

**ENGINEERS** ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000993

### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

**DIVISION OF HIGHWAYS** 

116-Y-2-BR-1

D-91-136-10

339

COOK

ILLINOIS CONTRACT NO. 60J00 X74+2=76

SUBMITTED JUNE 30, 20 10

Diam M. O'Harfa DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

actures Engineer of Design and Environment

Christina M. Read on DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 60J00



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- 2 INDEX OF SHEETS, STANDARDS, GENERAL NOTES & COMMITMENTS
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### STATE STANDARDS

000001-05 STANDARD SYMBOLS. ABBREVIATIONS AND PATTERNS

001001-02 AREAS OF REINFORCEMENT BARS

001006 DECIMAL OF AN INCH AND OF A FOOT

280001-05 TEMPORARY EROSION CONTROL SYSTEMS

420001-07 PAVEMENT JOINTS

420111-02 PCC PAVEMENT ROUNDOUTS

420401-06 BRIDGE APPROACH PAVEMENT CONNECTOR

420701-02 PAVEMENT FABRIC

515001-03 NAME PLATE FOR BRIDGES

604001-03 FRAME AND LIDS TYPE 1

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

606201-02 TYPE B GUTTER (INLET, OUTLET & ENTRANCE)

630001-08 STEEL PLATE BEAM GUARDRAIL

630301-05 SHOULDER WIDENING FOR TYPE 1 (SPECIAL)

GUARDRATI TERMINALS

635001-01 DELINEATORS

635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT

635011-02 REFLECTOR MARKER AND MOUNTING DETAILS

667101-01 PERMANENT SURVEY MARKERS 701306-02 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS

DAY ONLY, FOR SPEEDS >= 45 MPH

701311-03 LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY

701426-03 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS >= 45 MPH

701606-06 URBAN LANE CLOSURE, MULTILANE, 2W WITH

MOUNTABLE MEDIAN

701901-01 TRAFFIC CONTROL DEVICES

704001-00 TEMPORARY CONCRETE BARRIER 720001-01 SIGN PANEL MOUNTING DETAILS

720006-02 SIGN PANEL ERECTION DETAILS

720011-01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS

729001-01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)

780001-02 TYPICAL PAVEMENT MARKINGS

857001-01 STANDARD PHASE DESIGNATION DIAGRAMS

AND PHASE SEQUENCES

880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASHING

BEACON INSTALLATION

### DISTRICT STANDARDS

The transfer was the name of the same of t	
BD01	TC10
BD08	TC11
BD24	TC13
BD32	TC22
BD34	TC26
BD48	TS05
BD51	

### GENERAL NOTES

THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN --- ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF RIGHT-OF-WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF FARTH EXCAVATION.

THE CONTRACTOR SHALL COORDINATE ACTIVITIES WITH ALL UTILITIES WITHIN THE PROJECT LIMITS, AND ALSO WITH THE VILLAGE OF ROLLING MEADOWS PUBLIC WORKS DEPARTMENT (847-963-0500). ALL UTILITY RELOCATIONS SHALL TYPICALLY BE PERFORMED BY UTILITY AND/OR LOCAL AGENCIES. IF SPECIFIC UTILITY RELOCATIONS ARE REQUIRED TO BE PERFORMED BY THE CONTRACTOR, THIS WORK SHALL BE PAID IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS, UNLESS OTHERWISE INCLUDED

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK, THE JULIE NUMBER IS 800-892-0123.

THE APPLICABLE PORTIONS OF ARTICLE 105.07 OF THE STANDARD SPECIFICATIONS SHALL APPLY EXCEPT FOR THE FOLLOWING: THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE THE VERTICAL DEPTHS OF UNDERGROUND UTILITIES WHICH MAY INTERFERE WITH CONSTRUCTION OPERATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE APPLICABLE PAY ITEMS.

STREAM FLOWS SHALL BE MAINTAINED THROUGHOUT THE PROJECT. NORMAL FLOWS SHALL BE ALLOWED TO PASS AT THE RATE IT ENTERS THE JOBSITE, HIGH FLOWS SHALL BE ALLOWED TO PASS WITHOUT CAUSING DAMAGE TO UPSTREAM PROPERTIES.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED, THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF TOPSOIL FURNISH & PLACE, 4".

COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS WILL NEED TO BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- \* BDF FORM 2289 (ENVIRONMENTAL SURVEY REQUEST)
- \* A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- \* SIGNED PROPERTY OWNER AGREEMENT FORM
- \* COLOR PHOTOGRAPHS DEPICTING THE LISE AREA

PLEASE NOTE THAT A MINIMUM OF TWO WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED ENVIRONMENTAL CLEARANCES.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

THE THICKNESS OF THE HOT-MIX ASPHALT OVERLAY SHOWN ON THE PLANS IS THE NOMINAL THICKNESS FOR THE OVERLAY. DEVIATIONS FROM THE NOMINAL THICKNESS WILL ONLY BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE ON WHICH THE OVERLAY IS PLACED.

SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION.

THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE HMA SURFACE.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES. THE RESIDENT ENGINEER SHALL ALSO COORDINATE ALL TRAFFIC OPERATIONS WITH THE VILLAGE OF ROLLING MEADOWS PUBLIC WORKS DEPARTMENT AT (847) 963-0500.

AT ALL LOCATIONS WHERE THE PROPOSED HOT MIX ASPHALT OR CONCRETE PAVEMENT JOINS THE EXISTING HOT MIX ASPHALT OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF SAW CUTS AND JOINTS IS CONSIDERED AS INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.

CONTINUOUS PAVING OPERATIONS ON THE MAIN ROADWAY SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OF THE HOT-MIX ASPHALT SURFACE. NO INTERRUPTIONS FOR SIDE ROADS, ENTRANCES, TURN LANES, ETC. WILL BE ALLOWED.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

ESTIMATED QUANTITIES FOR FURNISHED EXCAVATION HAVE BEEN INCLUDED IN THE CONTRACT PLANS, DUE TO POTENTIAL SETTLEMENT DURING CONSTRUCTION. THESE QUANTITIES SHALL BE USED ONLY AS APPROVED BY THE ENGINEER.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IN REGARD TO THE EXACT LENGTH OF THE BOX/PIPE CULVERTS, STORM SEWERS, AND/OR PIPE DRAINS REQUIRED PRIOR TO ORDERING THESE ITEMS.

THE WORK AND MATERIALS REQUIRED TO CONNECT ANY CULLVERT OR SEWER TO ANOTHER DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE CULVERT OR SEWER ITEMS.

ALL ENGINEER'S FIELD OFFICES SHALL CONTAIN ONE FULLY-EQUIPPED FIRST-AID CABINET, THIS ITEM WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE PAY ITEM FOR ENGINEER'S FIELD OFFICE.

ADD THE FOLLOWING SENTENCE TO THE END OF PARAGRAPH 670.02(I) AND 670.04(E): ALL OF THE TELEPHONE LINES PROVIDED SHALL HAVE UNPUBLISHED NUMBERS

THE RESIDENT ENGINEER AND/OR CONTRACTOR SHALL NOTICY THE TRAFFIC STUDIES TECHNICIAN IN PROGRAM DEVELOPMENT AT LEAST ONE WEEK PRIOR TO THE INSTALLATION OF THE TRAFFIC COUNTER LOOP DETECTOR TO DETERMINE EXACT LOCATION.

THE CONTRACTOR SHALL REMOVE OR RELOCATE ALL CONFLICTING MAILBOXES, EXISTING STREET NAME SIGNS, AND ALL PRIVATE AND COMMERCIAL SIGNS IN ACCORDANCE WITH ARTICLES 107.20 & 107.25 AND AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL COORDINATE WITH THE POSTAL SERVICE TO ENSURE THAT RESIDENCES AND BUSINESSES IN THIS AREA WILL MAINTAIN MAIL SERVICE DURING CONSTRUCTION, SIGN LOCATIONS MAY BE ADJUSTED IN THE FIELD TO AVOID ANY FOUND UTILITIES AND AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE COST OF EARTH EXCAVATION. ALL WOOD POST LOCATIONS SHALL BE VERIFIED WITH THE BUREAU OF OPERATIONS, TRAFFIC SECTION, BEFORE INSTALLATION.

IF ANY UNSUITABLE MATERIAL IS ENCOUNTERED DURING CONSTRUCTION, IT WILL BE NECESSARY TO REMOVE THE UNSUITABLE MATERIAL AND REPLACE IT WITH A SUITABLE MATERIAL AS APPROVED BY THE ENGINEER,

AT LOCATIONS WHERE CLEARING IS INDICATED ON THE PLANS BEYOND THE LIMITS OF THE PROPOSED EXCAVATION OR EMBANKMENT. THE CONTRACTOR SHALL RESTORE THE DISTURBED EARTH BY BALDING AND SHAPING TO BLEND WITH THE ADJACENT GROUND. THE CLEARING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. RESEEDING OR RESODDING WILL BE AS PROVIDED IN THE PLANS.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BACS PER BARRICADE.

THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A DESCRIPTION OF LOCATION, ELEVATION, AND COORDINATES FOR EACH PERMANENT SURVEY MARKER, THE ENGINEER SHALL SUBMIT THIS INFORMATION TO THE SURVEY CREW,

EXISTING FENCES SHALL BE REMOVED UP TO EXISTING RIGHT OF WAY WITHIN THE PROJECT LIMITS AND AS SHOWN IN THE PLANS. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE COST OF EARTH EXCAVATION.

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

FILE NAME "	USER NAME = \$USER#	DESIGNED -	REVISED -
#FILEL\$		DRAWN -	REVISED -
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -
	PLOT DATE = #DATE#	DATE -	REVISED -

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-	INDEX OF SHEETS, STANDARDS, GENERAL NOTES & COMMITMENTS	F.A.U. RTE.	SEC	TION	COUNTY
-	IL ROUTE 62 (ALGONQUIN ROAD) OVER SALT CREEK	339	116-Y-	-2-BR-1	COOK
-	IL HOOLE OF ALGORIGANIA HOND, OFFI ONE OHER				CONTRA
į	SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. RO	AD DIST, NO.	ILLINOIS FED. A	ID PROJECT

COUNTY

COOK CONTRACT NO. 60JOC

74

		URBAN 801. FED.	SUMMA	ARY OF C	SALTITUAUC	<u>S</u>		URBAN 801.FED 201.STATE			
CODE	UNIT	TOTAL X031-2A	J000-2A		CODE	ITEM	UNIT	TOTAL	X031-2A STRUCTURE	JOOO-2A ROADWAY	h
NUMBER 20200100 EARTH EXCAVATION	CU YD	QUANTITY STRUCTURE	ROADWAY 1380	-	NUMBER 48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	215	STRUCTURE	215	
20201200 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL.	CU YD	1056	1056		50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	1		
20300100 CHANNEL EXCAVATION	CU YD	80	80		50102400	CONCRETE REMOVAL	CU YD	64.4	64.4		
20400800 FURNISHED EXCAVATION	CU YD	300	300		50200100	STRUCTURE EXCAVATION	CU YD	98	98		
x2070304 POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	88 88			50300225	CONCRETE STRUCTURES	CU YD	134.3	134.3		
20800150 TRENCH BACKFILL	CU YD	230	230		50300255	CONCRETE SUPERSTRUCTURE	CU YD	394.8	394-8		
21101615 TOP SOIL FURNISH AND PLACE, 4"	SQ YD	240	240		50300260	BRIDGE DECK GROOVING	SQ YD	918	918		
25000210 SEEDING, CLASS 2A	ACRE	0.25	0.25		50300300	PROTECTIVE COAT	SQ YD	1101	1101		
25000400 NITROGEN FERTILIZER NUTRIENT	POUND	15	15			FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM EACH	3672	3672		
25000500 PHOSPHORUS FERTILIZER NUTRIENT	POUND	15	15			STUD SHEAR CONNECTORS REINFORCEMENT BARS, EPOXY COATED	POUND	105,780			
25000600 POTASSIUM FERTILIZER NUTRIENT	POUND	15	15		50800515	BAR SPLICERS	EACH	655	655		
25100630 EROSION CONTROL BLANKET	SQ YD	544	544		50901720	BICYCLE RAILING	FOOT	120	120		
28000250 TEMPORARY EROSION CONTROL SEEDING	POUND	200	200		50901750	PARAPET RAILING	FOOT	120	120		
28000400 PERIMETER EROSION BARRIER	FOOT	1122	1122		Z0026407	TEMPORARY SHEET PILING	SQ FT	894	894		
28000500 INLET AND PIPE PROTECTION	EACH	6	6		51500100	NAME PLATES	EACH	1	1		
28000510 INLET FILTERS	EACH	15	15		52000110	PREFORMED JOINT STRIP SEAL	FOOT	178	178		
31101200 SUB BASE GRANULAR MATERIAL, TYPE B 4"	30 YD	2458	2458		52100010	ELASTOMETRIC BEARING ASSEMBLY, TYPE I	EACH	12	12		
3/200502 STABILIZED SUB BASE -HOT-MIX A SPHALT, 4 1/2"  35501316 HOT-MIX ASPHALT BASE COURSE, 8"	50 YD	2 <b>75</b> 8	2758 58		52100505	ANCHOR BOLTS, 5/8"	EACH	24	24		
40600100 BITUMINOUS MATERIALS (PRIME COAT)	GALLON	266	266		52100520	ANCHOR BOLTS, 1"	EACH	24	24		
40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	6.5	6.5		550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	30		30	
40603595 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	40	40		55101200	STORM SEWER REMOVAL 24"	FOOT	30		30	
42000506 PORTLAND CEMENT CONCRETE PAVEMENT 10 1/4" (JOINTED)	SQ YD	2152	2152		58700300	CONCRETE SEALER	SQ FT	930	930		
42001200 PAVEMENT FABRIC	SQ YD	2458	2458		59000200	EPOXY CRACK INJECTION	FOOT	, 15	15		
42001300 PROTECTIVE COAT	SQ YD	5952	5452		59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	78	78		
42001420 BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	159	159		60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	185	185		
42400200 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2660	2660		60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	14		14	
42400800 DETECTABLE WARNINGS	SQ FT	15	15		60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	470		470	
44000100 PAVEMENT REMOVAL	SQ YD	2362	2362		<b>*</b> 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	262.5		262.5	
44000157 HOT-MIX ASPHALT SURFACE REMOVAL, 2 "	SQ YD	342	342		<b>*</b> 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4		4	
44000200 DRIVEWAY PAVEMENT REMOVAL	SQ YD	58	58		<b>*</b> 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4		4	
44000500 COMBINATION CURB AND GUTTER REMOVAL	FOOT	692	692		63200310	GUARDRAIL REMOVAL	FOOT	612		612	-
44000600 SIDEWALK REMOVAL	SQ FT	2687	2687		66410300	CHAIN LINK FENCE REMOVAL	FOOT	200		200	
Z0004552 APPROACH SLAB REMOVAL	SQ YD	374	374		66700095	PERMANENT SURVEY MARKERS	EACH	2		2	<u> </u>
44003100 MEDIAN REMOVAL	SQ FT	946	946		67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	Items		12	
TLE NAME - USER NAME - BUGERS DESIGNED SEW REVISED - FILELS DRAWN SEW REVISED -				ATE OF II		SUMMARY OF QUANTITIES	F	.A.P. RTE.	SECTION 16-Y-2-BR-1	COUNTY	74
PLOT BATE = \$DATE = \$DATE = \$DATE = \$7/2010         REVISED = REVISED = \$DATE = \$1/2010		Di	EPAKTMEI	NI OF TR	IANSPORTA	SCALE: NONE SHEET NO. 1 OF 2 SHEETS STA. TO STA.		FED. ROAD DIST.	NO.   ILLINOIS   FE		CT NO. 60J

			URBAN 801. FED - 201. STATE			RY OF QL
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	X031-2A STRUCTURE	J000-2A ROADWAY	
67100100	MOBILIZATION	L SUM	1		1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1		1	
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1		1	
70103817	TRAFFIC CONTROL SURVEILLANCE (SPECIAL)	CAL DA	90		90	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	24		24	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	4449		4449	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	787.5	125	662.5	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	600	125	475	
72000100	SIGN PANEL - TYPE 1	SQ FT	10		10	
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	73		73	
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5851		5851	
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	601		601	
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	115		115	
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	132		132	
78008200	POLYUREA PAVEMENT MARKING TYPE I ~ LETTERS AND SYMBOLS	SQ FT	37		37	
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	2007		2007	
78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	139		139	
78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	50		50	
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	72		72	
78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	10		10	
78100300	REPLACEMENT REFLECTOR	EACH	50		50	
78200410	GUARDRAIL MARKERS, TYPE A	EACH	12		12	
78200530	BARRIER WALL MARKERS, TYPE C	EACH	212		212	
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4		4	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	3529		3529	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	82		82	
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	53		53	
81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	122		122	
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	53		53	
k 87900200	DRILL EXISTING HANDHOLE .	EACH	6		6	
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2		2	
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1992		1992	

URBAN				
801.FED.				
20% STATE				

	CODE: NUMBER	ITEM	UNIT	TOTAL QUANTITY	X031-2A STRUCTURE	J000-2A ROADWAY	V
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	115		115	
*	20033090	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1023		1023	
1							
<b>¥</b>	Z0033060	PREFORMED DETECTOR LOOP	FOOT	128		128	
7	2005300-	THE OTHER DETECTOR WOOT					
1	200/2755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	128	128		
1	20012135	STREET GRAN OF CONCRETE VEH IN CREATER THAN OF TRAINED	+	1			
-	70012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	34	34		
	20012754	STRUCTURAL RELAIN OF CONCRETE VIDELITE ENDAL TO ON EESS THAN S INCHES	- 3411		0,		
-	20073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2		2	
-	20073510	PAVEMENT MARKING	EACH	2			
-			FOOT	12771	-	12771	
	X7030104	WET TEMPORARY TAPE, TYPE III, 4 INCH	F001	12771		12111	
-		(PAVEMENT MARKING	====	96			
	X7030124	WET TEMPORARY TAPE, TYPE III, 24 INCH	FOOT	96		96	
					-		
	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	1		1	
<b>*</b>	X8710020	FIBER OPTIC CABLE IN CONDUIT, NO.62.5/125, MM12F SM12F	FOOT	1049		1049	
	Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	2514		2514	
1							
1	Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1	
1							
1	Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4		4	11.
1							
1	Z0030330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	2		2	
1	70001900	ASBESTOS BEARING PAD REMOVAL	EACH	58	58		
1		BRIDGE FENCE RAILING (SPECIAL)	50.FT	364	364		
0		TRAINESS	HOUR	1000	1000		
1		CONCRETE BARRIER, SINGLE FACE, 34 INCH HEIGHT	FOOT	179		179	
1		The state of the s			<del></del>	L	

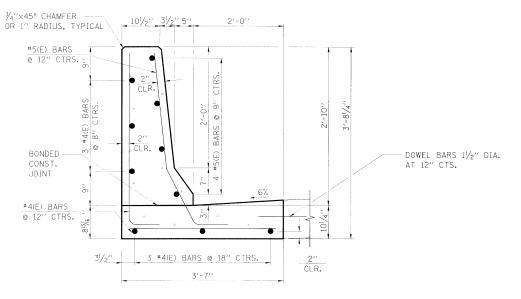
0 4080 \* specialty Items

- 1	•				
	FILE NAME =	USER NAME = \$USER\$	DESIGNED -	SEW	REVISED -
	*FILELS	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	DRAWN -	SEW	REVISED
		PLOT SCALE = \$SCALE\$	CHECKED ~	FML .	REVISED -
		PLOT DATE - SDATE*	DATE -	5/2010	REVISED -

STATE	OF	ILLINOIS
<b>DEPARTMENT (</b>	)F	TRANSPORTATION

SUMMARY OF QUANTITIES

					Key	
SUMMARY OF QUANTITIES		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL ROUTE 62 (ALGONQUIN ROAD) OVER SALT	CDEEK	339	116-Y-2-BR-1	COOK	74	4
IL NOUTE UZ (ALGUNAUNIN NOAD) OVER SALT	UNLLN			CONTRACT	NO. 6	0000
SCALE: NONE SHEET NO. 2 OF 2 SHEETS STA.	TO STA.	FED. R	OAD DIST. NO.   ILLINOIS FED. AL	D PROJECT		



### DETAIL A

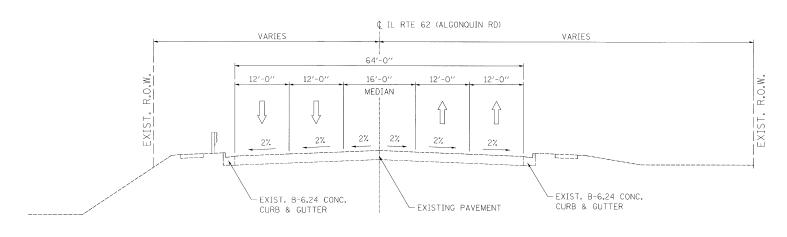
### NOTES:

- 1. REINFORCEMENT BARS AND DOWEL BARS TO BE PROVIDED PER ABOVE DETAIL SHALL BE INCLUDED IN THE CONTRACT COST PER FOOT FOR "CONCRETE BARRIER, SINGLE FACE, 34 INCH HEIGHT".
- 2. TRANSITION TO ABOVE CONFIGURATION FROM APPROACH ROADWAY PARAPET CONFIGURATION TO BE PROVIDED WITHIN LIMITS OF APPROACH ROADWAY PAVEMENT. THIS WORK SHALL BE INCLUDED IN THE CONTRACT COST PER CUBIC YARD FOR "CONCRETE SUPERSTRUCTURE".

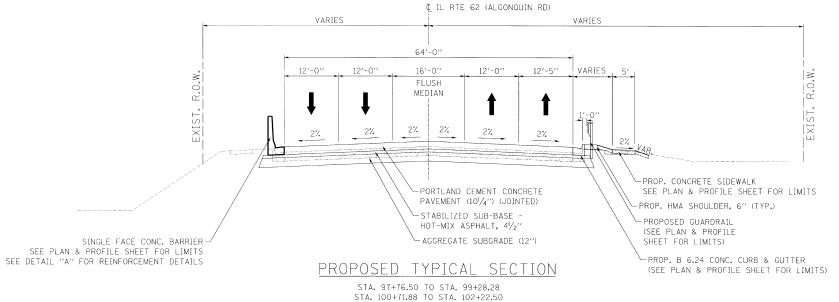
HOT-MIX ASPHALT MIXTURE REQUIREME	INTS
MIXTURE TYPE	AIR VOIDS
STABILIZED SUBBASE	
STABILIZED SUB-BASE - HOT-MIX ASPHALT, 4½"	2% @ 30 Gyr.
PAVEMENT RESURFACING	
POLYMERIZED DOTEMIX ASPHALT SURFACE COURSE, MIX "F", N90, (TL 9.5), 2"	4% @ 90 Gyr.
HOT-MIX ASPHALT SHOULDERS, 6"	
HOT MEX ASPHALT SHOULDER, (HMA BINDER IL-19.0mm), 6"	2% @ 30 Gyr.
ENTRANCES AND DRIVEWAYS	
HOTEMEX ASPHALT SURFACE COURSE, MIX "C", N50, (IL 9.5); 2"	4% @ 50 Gyr.
HOT MEX ASPHALT BASE COURSE, GHMA BINDER IL-19.0); 8"	4% @ 50 Gyr.

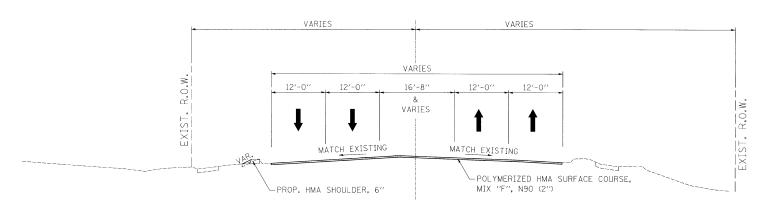
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

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



### EXISTING TYPICAL SECTION





### PROPOSED TYPICAL SECTION

STA. 102+22.50 TO STA. 102+72.44

ŀ	FLE WORL:	USER NAME : \$USER\$	DESIGNED - ST	REVISED -			TYPICAL SECTIONS		F.A.P	SECTION	COUNTY	TOTAL SHE	ET
	#Fil(I)#		DRAWN - ST	REVISED -	STATE OF ILLINOIS		ROUTE 62 (ALGONQUIN ROAD) OVER SALT CREE	-v	339	116-Y-2-BR-1	COOK	74 5	•
		PLOT SCALE = #SCALE#	CHECKED FML	REVISED -	DEPARTMENT OF TRANSPORTATION	IL NOUTE 02 (ALGUNQUIN ROAD) OVER SALT CREEK		. N			CONTRAC	T NO. 60J0	0
L		PLOT DATE = \$DATE\$	DATE - 02/2010	REVISED		SCALE: N.I.S.	SHEET NO. 1 OF 1 SHEETS STA. TO S	TA.	I .	ILLINOIS FED. A	ID PROJECT		

### EARTHWORK

LOCATION	EARTH EXCAVATION	EMBANKMENT	EARTH EXCAVATION ADJ. FOR SHRINKAGE	CHANNEL EXCAVATION	CHANNEL EXCAVATION ADJ. FOR SHRINKAGE	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL WASTE (+)
STATION TO STATION			CU.	YD.		
95+50 TO 96+00	4.3		3.7	JOBSITE	JOBSITE	3.7
96+00 TO 96+50	3.3		2.8			2.8
96+50 TO 97+00	3.5		3.0	-		3.0
97+00 TO 97+50	3.7		3.1			3.1
97+50 TO 98+00	103.1	9.9	87.6			77.7
98+00 TO 98+29	118.4	9.5	100.6			91.1
98+29 TO 98+50	76.8	4.7	65.3	·		60.6
98+50 TO 99+00	141.1	11 <b>.</b> 5	119.9			108.4
99+00 TO 99+69	113.1	35.9	96.1			60.2
100+31 TO 101+00	147.1	58.7	125.0			66.3
101+00 TO 101+50	156.0	24.2	132.6			108.4
101+50 TO 102+00	180.2	21.5	153.2			131.7
102+00 TO 102+50	95.8	8.3	81.4			73.1
CHANNEL				80	68	68.0
STORM SEWER	233.0		198.1			198.1
TOTAL	1380.0				TOTAL	1056.0

### NOTE:

SHRINKAGE FACTOR = 15% FOR EARTH AND CHANNEL EXCAVATION.

CHANNEL EXCAVATION ASSUMED TO BE SUITABLE MATERIAL, AND IS INCLUDED IN EARTHWORK BALANCE.

CHANNEL EXCAVATION TOTAL IS AN ESTIMATE AND IS ROUNDED TO THE NEAREST 1 CU. YD.

### TRENCH BACKFILL

LOCATI	QUANTITY	
STATION	OFFSET	(CU YD)
99+38 TO 99+68	LT	230
	TOTAL	230

### FURNISHED EXCAVATION

LOCATION	QUANTITY
LOCATION	(CU YD)
JOBSITE	300
TOTAL	300

### TOPSOIL FURNISH AND PLACE, 4"

		QUANTITY		
ST	ATI	ON	LENGTH	(SQ YD)
95+50.00	TO	96+00.00	50.00	2.25
96+00.00	T.0	96+50.00	50.00	2.62
96+50.00	ТО	97+00.00	50.00	4.72
97+00.00	ΤO	97+50.00	50.00	5.96
97+50.00	TO	98+00.00	50.00	8.50
98+00.00	ТО	98+29.06	29.06	5.45
98+29.06	ТО	98+50.00	20.94	9.68
98+50.00	TO	99+00.00	50.00	28.48
99+00.00	ТО	99+69.33	69.33	40.07
100+30.67	TO	101+00.00	69.33	66.38
101+00.00	TO	101+50.00	50.00	27.91
101+50.00	TO	102+00.00	50.00	23,86
102+00.00	TO	102+50.00	50.00	14.00
			TOTAL	240

### SEEDING, CLASS 2A

LOCATION	QUANTITY	
STATION	OFFSET	(ACRE)
94+88.34 TO 99+12.04	LT	0.02
100+89.46 TO 102+72.46	LT	0.01
97+76.47 TO 98+07.35	RT	0.001
98+41.12 TO 99+79.06	RT	0.02
100+34.03 TO 102+60.62	RT	0.05
	TOTAL	0.25

### NITROGEN FERTILIZER NUTRIENT

LOCATION		QUANTITY	QUANTITY
STATION	OFFSET	(ACRE)	(POUNDS)
94+88.34 TO 99+12.04	LT	0.02	2
100+89.46 TO 102+72.46	LT	0.01	1
97+76.47 TO 98+07.35	RT	0.00	1
98+41.12 TO 99+79.06	RT	0.02	2
100+34.03 TO 102+60.62	RT	0.05	5
(APPLICATION RATE = 90	LB/ACRE)	TOTAL	15

### PHOSPHOROUS FERTILIZER NUTRIENT

LOCATION	QUANTITY	QUANTITY	
STATION	OFFSET	(ACRE)	(POUNDS)
94+88.34 TO 99+12.04	LT	0.02	2
100+89.46 TO 102+72.46	LT	0.01	1
97+76.47 TO 98+07.35	RT	0.00	1
98+41.12 TO 99+79.06	RT	0.02	2
100+34.03 TO 102+60.62	RT.	0.05	5
(APPLICATION RATE = 90	LB/ACRE)	TOTAL	15

### POTASSIUM FERTILIZER NUTRIENT

LOCATION	QUANTITY	QUANTITY	
STATION	OFFSET	(ACRE)	(POUNDS)
94+88.34 TO 99+12.04	LT	0.02	2
100+89.46 TO 102+72.46	LT	0.01	1
97+76.47 TO 98+07.35	RT	0.00	1
98+41.12 TO 99+79.06	RT	0.02	2
100+34.03 TO 102+60.62	RT	0.05	5
(APPLICATION RATE = 90	LB/ACRE)	TOTAL	15
	STATION 94+88.34 TO 99+12.04 100+89.46 TO 102+72.46 97+76.47 TO 98+07.35 98+41.12 TO 99+79.06 100+34.03 TO 102+60.62	STATION OFFSET  94+88.34 TO 99+12.04 LT  100+89.46 TO 102+72.46 LT  97+76.47 TO 98+07.35 RT  98+41.12 TO 99+79.06 RT	STATION         OFFSET         (ACRE)           94+88.34         TO 99+12.04         LT         0.02           100+89.46         TO 102+72.46         LT         0.01           97+76.47         TO 98+07.35         RT         0.00           98+41.12         TO 99+79.06         RT         0.02           100+34.03         TO 102+60.62         RT         0.05

### EROSION CONTROL BLANKET

LOCATION	QUANTITY	
STATION	OFFSET	(SQ YD)
94+88.34 TO 99+12.04	LT	120.0
100+89.46 TO 102+72.46	LT	58.4
97+76.47 TO 98+07.35	RT	3.0
98+41.12 TO 99+79.06	RT	114.2
100+34.03 TO 102+60.62	RT	247.7
	TOTAL	544.0

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	SEW	REVISED -	T
SFILEL\$	ALANAM PROPERTY.	DRAWN -	SEW	REVISED -	1
	PLOT SCALE = #SCALE#	CHECKED -	FML	REVISED -	1
	FLOT DATE = #DATE#	DATE -	5/2010	REVISED -	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

communica e	werenesses were											
	SCHEDULE OF QUANTITIES							F.A.P. SECTION		COUNTY	TOTAL	SHEE'
	IL ROU	TE 62	(ALC	ONOUI	N ROAD	OVER	SALT CREEK	339	116-Y-2-BR-1	COOK	74	6
								CONTRACT	NO. 6	0000		
LE:		SHEET	NO.	OF	SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO.   ILLINOIS FED. A	D PROJECT		

### TEMPORARY EROSION CONTROL SEEDING

LOCATION	QUANTITY
LUCATION	(POUND)
JOBSITE	200
TOTAL	200

### PERIMETER EROSION BARRIER

LOCATION		QUANTITY
STATION	OFFSET	(FOOT)
94+88.32 TO 99+62.64	LT	475
100+24.12 TO 102+72.36	LT	249
97+76.47 TO 98+07.35	RT	31
98+41.12 TO 99+79.06	RT	139
100+34.03 TO 102+60.52	RT	228
	TOTAL	1122

### INLET AND PIPE PROTECTION

LOCA	TION	QUANTITY
STA.	OFFSET	(EACH)
98+61	46.6 LT	1
98+69	47.3 RT	1
99+21	69.7 RT	1
100+79	65.6 RT	1
100+97	60.2 RT	1
102+07	37.9 LT	1
	TOTAL	6

### INLET FILTERS

LOCA	ATION	QUANTITY
STA.	OFFSET	(EACH)
94+85	32.7 LT	1
95+79	32.7 LT	1
96+83	32.4 LT	1
98+07	17.3 RT	1
98+07	17.7 LT	1
98+14	0.5 RT	1
98+57	33.4 RT	1
98+79	32.7 LT	1
99+34	19.1 RT	1
99+38	18.5 LT	1
100+64	34.0 RT	1
100+68	0.6 RT	1
100+69	34.8 LT	1
101+93	33.4 LT	1
101+94	33.5 RT	1
	TOTAL	15

### STABILIZED SUB-BASE -HOT-MIX ASPHALT, 4 1/2"

LOCATION		QUANTITY
STATION	OFFSET	(SQ YD)
97+76.50 TO 99+28.28	LT/RT	1400
100+71.88 TO 102+22.50	LT/RT	1358
	TOTAL	2758

### HOT-MIX ASPHALT BASE COURSE, 8"

LOCATION		QUANTIȚY
STATION	OFFSET	(SQ YD)
98+05.15 TO 98+52.75	RT	58
(COMMERCIAL ENTRANCE)	TOTAL	58

# BITUMINOUS MATERIALS (PRIME COAT)

LOCAT	LION	QUANTITY
STATION	AREA (SQ. YD.)	(GAL)
98+05.15 TO 98+52.75	.58	87
102+22.50 TO 102.72.44	358	179
	TOTAL	266

# HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

LOCATION		QUANTITY
STATION		(TON)
COMMERCIAL ENTRANCE		6.5
98+05.15 TO 98+52.75		
	TOTAL	6.5

# POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE MIX "F", N90

LOCATION		QUANTITY
STATION		(TON)
102+22.50 TO 102+72.44		40
	TOTAL	40

# PORTLAND CEMENT CONCRETE PAVEMENT 10 1/4" (JOINTED)

LOCATION		QUANTITY
STATION		(SQ YD)
97+76.50 TO 99+28.28		1080
100+71.88 TO 102+22.50		1072
	TOTAL	2152

### PAVEMENT FABRIC

LOCATION		QUANTITY
STATION		(SQ YD)
97+76.50 TO 99+28.28		1247
100+71.88 TO 102+22.50		1211
	TOTAL	2458

### PROTECTIVE COAT

	·	
LOCATION	QUAN	TITY
STATION		(SQ YD)
SIDEWALK		
98+41 TO 99+76 RT		76.7
100+66 TO 102+23 RT		86.1
98+00 TO 99+64 LT		90.6
100+24 TO 101+00 LT		42.2
SUBTOTAL =	x2 COATS	591.2
STATION		
CURB & GUTTER		
97+76.50 TO 98+00.00 LT		7.9
97+76.50 TO 99+44.66 RT		56.2
101+00.00 TO 102+22.50 LT		40.9
100+66.11 TO 102+22.50 RT		52.2
SUBTOTAL =	×2 COATS	314.4
STATION		
PCC PAVEMENT		
97+76.50 TO 99+39.37		1158.0
100+60.67 TO 102+22.50		1151.3
SUBTOTAL =	x2 COATS	4618.6
STATION		
SINGLE FACE BARRIER WALL		
98+00.00 TO 99+34.01		160.3
100+55.10 TO 101+00.00		53.8
SUBTOTAL =	× 2 COATS	428.2
	TOTAL	5952

### BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)

LOCATION		QUANTITY
STATION		(SQ YD)
99+28.28 TO 99+39.34		79
100+60.67 TO 100+71.88		80
	TOTAL	159

FILE NAME -	USER NAME = \$USER\$	DESIGNED		SEW	REVISED -
\$FILEL\$		DRAWN	-	SEW	REVISED -
	PLOT SCALE = #SCALE#	CHECKED	-	FML	REVISED -
	PLOT DATE = \$UATE\$	DATE	-	5/2010	REVISED -

	SCHEDULE OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	IL ROUTE 62 (ALGONQUIN ROAD) OVER SALT CREEK	339	116-Y-2-BR-1	COOK	74	7
		_		CONTRACT	NO. 6	0J00
ALE:	SHEET NO. OF SHEETS STA. TO STA.	FFD RO	AD DIST NO THEINOIS EED AT	D PROJECT		

# PORTLAND CEMENT CONRETE SIDEWALK, 5 INCH

LOCATION	QUANTITY
STATION	(SQ FT)
98+41 TO 99+76 RT	690
100+66 TO 102+23 RT	775
98+00 TO 99+64 LT	815
100+24 TO 101+00 LT	380
TOTAL	2660

### DETECTABLE WARNINGS

LOCATION		QUANTITY
STATION	OFFSET	(SQ FT)
98+45	RT	15
	TOTAL	15

### PAVEMENT REMOVAL

LOCATION	QUANTITY
STATION	(SQ YD)
97+76.50 TO 99+45.25	1196
100+58.09 TO 102+22.50	1166
TOTAL	2362

### HOT-MIX ASPHALT SURFACE REMOVAL, 2"

LOCATION	QUANTITY
STATION	(SQ YD)
102+22.50 TO 102+72.44	342
TOTAL	342

### DRIVEWAY PAVEMENT REMOVAL

LOCATION		QUANTITY
STATION		(SQ. YD.)
COMMERCIAL ENTRANCE		58
98+05.15 TO 98+52.69		
	TOTAL	58

# COMBINATION CURB AND GUTTER REMOVAL

LOCATION		QUANTITY
STATION	OFFSET	(FOOT)
97+76.50 TO 99+39.94	LT	164
97+76.50 TO 99+45.45	RT	169
100+24.98 TO 102+22.50	LT	198
100+61.74 TO 102+22.50	RT	161
	TOTAL	692

### SIDEWALK REMOVAL

LOCATION		QUANTITY
STATION	OFFSET	(SQ FT)
98+41 TO 99+76	RT	643
100+37 TO 102+23	RT	903
98+00 TO 99+62	LT	778
100+24 TO 101+00	LT	363
	TOTAL	2687

### APPROACH SLAB REMOVAL

LOCATION	QUANTITY
STATION	(SQ YD)
99+40.21 TO 99+70.95	183
100+28.89 TO 100+61.18	191
TOTAL	374

### MEDIAN REMOVAL

LOCATION	QUANTITY
STATION	(SQ FT)
99+45.29 TO 99+70.95	344
100+28.89 TO 100+61.18	374
101+92.32 TO 102+74.75	228
TOTAL	946

### HOT-MIX ASPHALT SHOULDERS, 6"

LOCATION		QUANTITY
STATION	OFFSET	(SQ. YD.)
98+47 TO 99+75	RT	27
94+95 TO 98+00	LT	98
100+37 TO 102+01	RT	37
101+00 T0 102+73	LT -	53
	TOTAL	215

### STORM SEWERS, CLASS A, TYPE 2, 24"

LOCATION		QUANTITY
STATION	OFFSET	(FOOT)
99+38 TO 99+68	LT	- 30
	TOTAL	30

### STORM SEWER REMOVAL 24"

LOCATION	-	QUANTITY
STATION	OFFSET	(FOOT)
99+38 TO 99+68	LT	30
	TOTAL	30

### FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)

LOCA	ATION	QUANTITY
STATION	OFFSET	(EACH)
98+06.78	17.3 RT	1
98+07.03	17.7 LT	1
98+14.43	0.4 RT	1
98+56.72	33.4 RT	1
98+69.31	47.3 RT	1
98+79.15	32.6 LT	1
99+33.96	19.1 RT	1
99+38.03	18.5 LT	1
100+64.26	34.0 RT	1
100+68.39	0.5 RT	1
100+69.00	34.8 LT	1
101+93.34	33.4 LT	1
101+94.54	33.5 RT	1
102+07.00	37.8 LT	1
	TOTAL	14

### COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24

LOCATION		QUANTITY
STATION	OFFSET	(FOOT)
97+76.43 TO 99+44.66	RT	168
97+76.58 TO 98+00.00	LT	23
100+66.11 TO 102+22.48	RT	156
101+00.00 TO 102+22.52	LT	123
	TOTAL	470

### STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS

LOCATION		QUANTITY
STATION	OFFSET	(FOOT)
95+69.59 TO 97+56.85	LT	187.5
99+04.16 TO 99+16.66	RT	12.5
101+09.80 TO 101+22.30	RT	12.5
101+43.15 TO 101+93.05	LT	50.0
	TOTAL	262.5

FILE NAME =	USER NAME : #USER#	DESIGNED -	SEW	REVISED -
\$FILEL\$		DRAWN -	SEW	REVISED -
	PLOT SCALE = \$SCALE*	CHECKED -	FML	REVISED -
	PLOT DATE = \$DATE*	DATE -	5/2010	REVISED -

### TRAFFIC BARRIER TERMINAL, TYPE 6

LOCATION		QUANTITY
STATION	OFFSET	(EACH)
97+56.85 TO 98+00.06	LT	1
99+16.66 TO 99+60.47	RT	1
100+66.05 TO 100+09.80	RT	1
100+99.50 TO 101+43.15	LT	1
	TOTAL	4

# TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

LOCATION		QUANTITY
STATION	OFFSET	(EACH)
95+19.64 TO 95+69.59	LT	1
98+54.11 TO 99+04.16	RT	1
101+22.30 TO 101+72.30	RT	1
101+93.05 TO 102+43.00	LT	1
	TOTAL	4

### GUARDRAIL REMOVAL

LOCATION		QUANTITY
STATION	OFFSET	(FOOT)
95+38.56 TO 99+65.05	LT	427
99+01.22 TO 99+72.33	RT	72
100+24.91 TO 101+37.39	LT	113
	TOTAL	612

### CONCRETE BARRIER, SINGLE FACE, 34 INCH HEIGHT

LOCATION		QUANTITY
STATION	OFFSET	(F00T)
98+00.00 TO 99+34.01	LT	134
100+55.10 TO 101+00.00	LT	45
	TOTAL	179

### CHAIN LINK FENCE REMOVAL

LOCATION		QUANTITY
STATION	OFFSET	(FOOT)
99+47.36 TO 100+33.29	LT	100
99+66.10 TO 100+53.00		100
	RTDTAL	200

### PERMANENT SURVEY MARKERS

LOCATION	QUANTITY
	(EACH)
JOBSITE	· 2
TOTAL	2

### ENGINEER'S FIELD OFFICE, TYPE A

LOCATION	QUANTITY	
LOCATION	(CAL MO)	
JOBSITE	12	
TOTAL	12	

### <u>MOBILIZATION</u>

LOCATION	QUANTITY
LOCATION	(L SUM)
JOBSITE	1
TOTAL	1

### TRAFFIC CONTROL AND PROTECTION, STANDARD 701306

L AGATTON)	QUANTITY
LOCATION	(L SUM)
JOBSITE	1
ТОТ	AL 1

### TRAFFIC CONTROL AND PROTECTION, STANDARD 701606

	QUANTITY
LOCATION	(L SUM)
JOBSITE	1
TOTAL	1

### TRAFFIC CONTROL SURVEILLANCE (SPECIAL)

LOCATION	QUANTITY	
LUCATION	(CAL DAY)	
JOBSITE	90	
TOTAL	90	

### CHANGEABLE MESSAGE SIGN

LOCATION	QUANTITY	
	(CAL MO)	
JOBSITE	24	
TOTAL	24	

### WORK ZONE PAVEMENT MARKING REMOVAL

LOCATION	QUANTITY
STATION	(SQ FT)
STAGE 1	2425
STAGE 2	2024
T	OTAL 4449

### TEMPORARY CONCRETE BARRIER

LOCATION	QUANTITY
STATION	(FOOT)
STAGE 1	475.0
ADDITIONAL FOR STAGE 2	187.5
TOTAL	662.5

### RELOCATE TEMPORARY CONCRETE BARRIER

LOCATION	QUANTITY
STATION	(FOOT)
STAGE 2	475.0
TOTAL	475.0

### SIGN PANEL - TYPE 1

LOCATION         QUANTITY           STATION         OFFSET         (SQ FT)           103+46         RT         5           103+62         LT         5			
103+46 RT 5	LOCATION		QUANTITY
103110	STATION	OFFSET	(SQ FT)
103+62 LT 5	103+46	RT	5
	103+62	LT	5
TOTAL 10		. TOTĄL	10

					}
SCHEDULE OF QUANTITIES	F.A.P. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL ROUTE 62 (ALGONQUIN ROAD) OVER SALT CREEK	339	116-Y-2-BR-1	COOK	74	9
IL HOULE OF PEROVISION HOUSE OVER OVER OUTER			CONTRACT	NO. 6	0000
SCALE: SHEET NO, OF SHEETS STA, TO STA.	FED. RO	AD DIST, NO. ILLINOIS FED. A	ID PROJECT		

### THERMOPLASTIC PAVEMENT MARKING -LETTERS AND SYMBOLS

LOCATION		QUANTITY
STATION		(SQ. FT.)
97+10		15.6
97+40		20.8
96+00		15.6
96+30		20.8
	TOTAL	73

### THERMOPLASTIC PAVEMENT MARKING - LINE 4"

LOCATION	QUANTITY
STATION	(FOOT)
SKIP - DASH WHITE	-
95+68 TO 97+77 LT	. 52
95+68 TO 97+77 RT	52
102+23 TO 102+72 LT	12
102+23 TO 102+72 RT	12
103+43 TO 115+00 LT	289
103+43 TO 115+00 RT	289
87+81 TO 95+00 LT	180
87+81 TO 95+00 RT	180
DOUBLE YELLOW	
95+68 TO 97+77 LT/RT	418
95+68 TO 97+77 LT/RT	418
102+23 TO 102+72 LT/RT	98
102+23 TO 102+72 LT/RT	98
103+43 TO 115+00 LT/RT	2314
87+81 TO 95+00 LT/RT	1438
TOTAL	5851

### THERMOPLASTIC PAVEMENT MARKING - LINE 6"

LOCATION	QUANTITY
STATION	(FOOT)
SOLID WHITE	
95+68 TO 97+53 LT	185
102+69 TO 102+23 RT	46
103+43 TO 105+28 RT	185
93+15 TO 95+00 RT	185
TOTAL	601

### THERMOPLASTIC PAVEMENT MARKING - LINE 12"

LOCATION	QUANTITY
STATION	(F00T)
SOLID YELLOW	
95+68 TO 97+77 RT	12
102+23 TO 102+72 LT	3
103+43 TO 115+00 LT/RT	50
87+81 TO 95+00 LT/RT	50
TOTAL	115

### THERMOPLASTIC PAVEMENT MARKING - LINE 24"

LOCATION	QUANTITY
STATION	(FOOT)
SOLID WHITE	
95+65	36
102+72	36
103+43	36
95+00	24
TOTA	L 132

### POLYUREA PAVEMENT MARKING TYPE I -LETTERS AND SYMBOLS

LOCATION		QUANTITY
STATION		(SQ. FT.)
100+95		15.6
101+25		20.8
	TOTAL	37
	STATION 100+95	STATION 100+95 101+25

### POLYUREA PAVEMENT MARKING TYPE I - LINE 4"

LOCATION	QUANTITY
STATION	(FOOT)
SKIP - DASH WHITE	
97+77 TO 102+23 LT	112
97+77 TO 102+23 RT	112
DOUBLE YELLOW	
97+77 TO 102+23 LT/RT	892
97+77 TO 102+23 LT/RT	892
TOTAL	2007

### POLYUREA PAVEMENT MARKING TYPE I - LINE 6"

LOCATION	QUANTITY
STATION	(FOOT)
SOLID WHITE	
100+84 TO 102+23 RT	139
TOTAL	139

### POLYUREA PAVEMENT MARKING TYPE I - LINE 12"

LOCATION	QUANTITY
STATION	(FOOT)
SOLID YELLOW	
97+77 TO 102+23 LT/RT	50
TOTAL	50

### RAISED REFLECTIVE PAVEMENT MARKER

LOCATION		QUANTITY
STATION	OFFSET	(EACH)
95+66 TO 99+40	LT/RT	45
100+60 TO 102+72	LT/RT	27
	TOTAL	72

### RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)

LOCATION		QUANTITY
STATION	OFFSET	(EACH)
99+40 TO 100+60	LT/RT	10
	TOTAL	10

### REPLACEMENT REFLECTOR

LOCATION		QUANTITY
STATION	OFFSET	(EACH)
103+43 TO 115+00	LT/RT	30
87+81 TO 95+00	LT/RT	20
	TOTAL	50

### GUARDRAIL MARKERS, TYPE A

LOCATION	QUANTITY
STATION TO STATION	(EACH)
95+20 TO 98+00	4
98+57 TO 99+76	4
101+00 TO 102+43	4
TOTAL	12

### BARRIER WALL MARKERS, TYPE C

LOCATION	QUANTITY
JOBSITE	(EACH)
TEMPORARY CONCRETE	212
BARRIER	1.
TOTAL	212

### TERMINAL MARKER - DIRECT APPLIED

LOCATIO	ON .	QUANTITY
STATION	OFFSET	(EACH)
NE CORNER	LT	1
NW CORNER	LT	1
SE CORNER	RT	1
SW CORNER	RT	1
	TOTAL	4

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	SEW .	REVISED -	
\$FILEL\$		DRAWN -	SEW	REVISED -	
	PLOT SCALE = \$SCALE\$	CHECKED -	FML	REVISED -	
	PLOT DATE = \$DATE\$	DATE -	5/2010	REVISED -	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
339	116-Y-2-BR-1	COOK	74	10
		CONTRACT	NO. 6	0100
EED DO	AD DICT NO THE INDIC CED AT	D DDO IFOT		

### PAVEMENT MARKING REMOVAL

The second secon	
LOCATION	QUANTITY
STATION TO STATION	(SQ FT)
87+81 TO 115+00	3529
TOTAL	3529

# RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

LOCATION	QUANTITY
STATION TO STATION	(EACH)
97+76.50 TO 102+72.44	82
TOTAL	.82

### TEMPORARY INFORMATION SIGNING

LOCATION	QUANTITY
STATION TO STATION	(SQ FT)
JOBSITE	115
TOTAL	115

# WET REFLECTIVE TEMPORARY TAPE, TYPE III 4"

LOCATION	QUANTITY
STATION	(FOOT)
WHITE	(1001)
STAGE 1	
87+81 TO 95+07 LT/RT	782
95+42 TO 102+85 LT/RT	837
103+35 TO 110+41 LT/RT	751
STAGE 2	121
92+64 TO 103+10 LT/RT	1096
103+55 TO 104+81 LT/RT	230
105+06 TO 108+74 RT	392
109+16 TO 110+96 RT	185
SUBTOTAL =	4273
SUBTOTAL -	4213
YELLOW	
SOLID YELLOW	
STAGE 1	
88+64 TO 93+81 LT/RT	517
90+45 TO 93+81 LT	336
104+60 TO 115+00 LT/RT	1040
104+60 TO 115+00 LT	1040
STAGE 2	10 10
88+00 TO 94+82 RT	738
91+87 TO 94+82 LT/RT	295
104+67 TO 110+96 LT/RT	629
104+67 TO 110+96 LT/RT	629
DOUBLE YELLOW	
STAGE 1	
93+81 TO 94+65 LT	168
95+65 TO 102+38 LT	1346
103+75 TO 104+60 LT	170
STAGE 2	
95+66 TO 102+71 RT	1410
103+77 TO 104+67 RT	180
SUBTOTAL =	8498
TOTAL	12771
<u> </u>	1

### WET REFLECTIVE

### TEMPORARY TAPE, TYPE III, 24"

LOCATION		QUANTITY
STATION		(FOOT)
SOLID WHITE		
STAGE 1		
94+64 LT		12
95+67 LT		12
102+37 LT		12
103+76 LT		12
STAGE 2		
94+81 RT		12
95+67 RT		12
102+70 RT		12
103+78 RT		12
	TOTAL	96

### TEMPORARY ACCESS (COMMERCIAL ENTRANCE)

LOCATION		QUANTITY
STATION		(EACH)
98+29 RT		1
	TOTAL	1

### AGGREGATE SUBGRADE 12"

LOCATION		QUANTITY
STATION	OFFSET	(SQ YD)
97+76.50 TO 99+28.28	LT/RT	1276.1
100+71.88 TO 102+22.50	LT/RT	1237.4
	TOTAL	2514

### CONSTRUCTION LAYOUT

LOCATION	QUANTITY
LUCATION	(L SUM)
JOBSITE	1
TOTAL	1

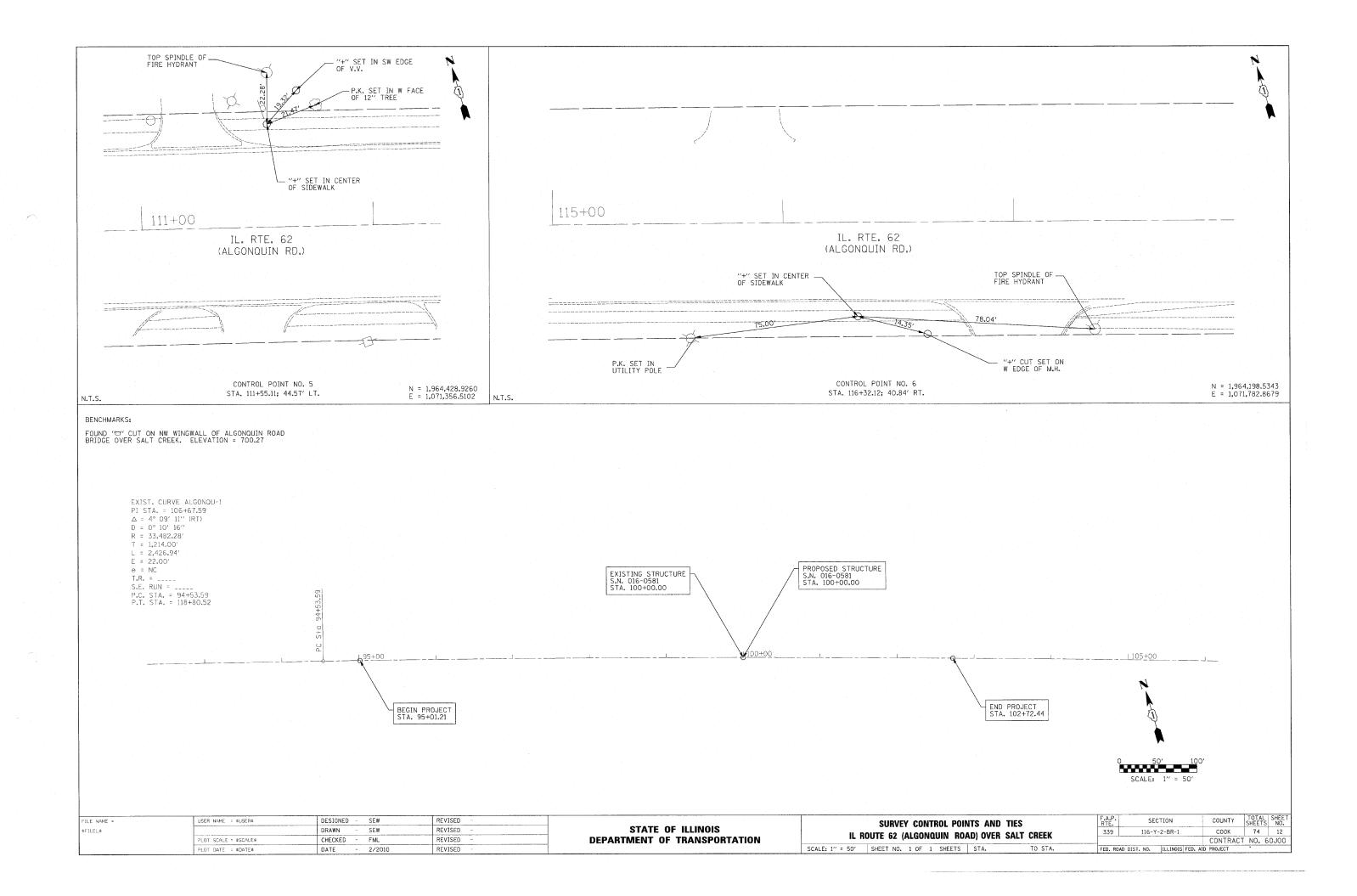
# IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

LOCATION	QUANTITY
STATION	(EACH)
STAGE 1	4
TOTAL	4

# IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

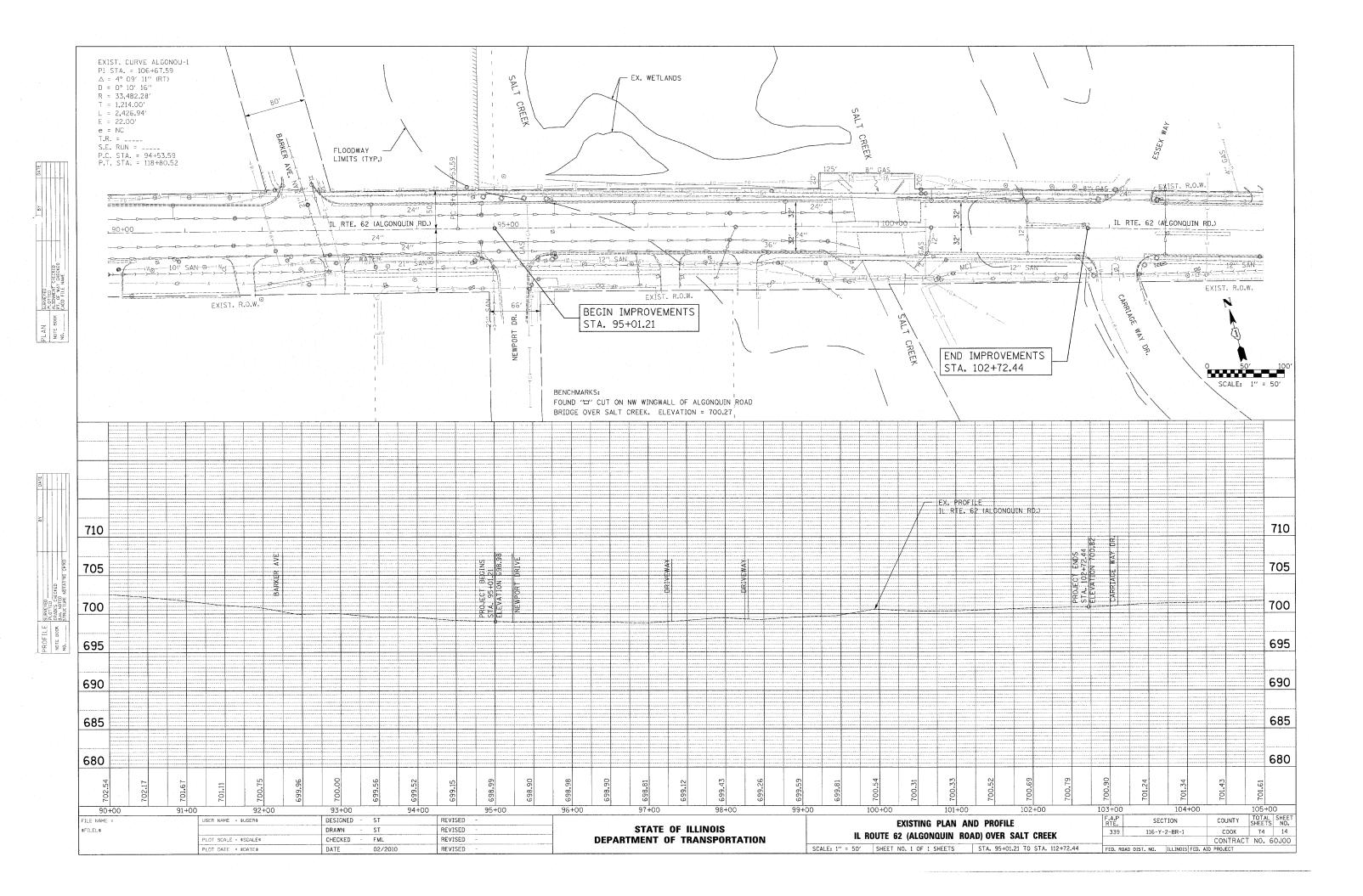
LOCATION	QUANTITY
STATION	(EACH)
STAGE 2	2
TOTAL	2

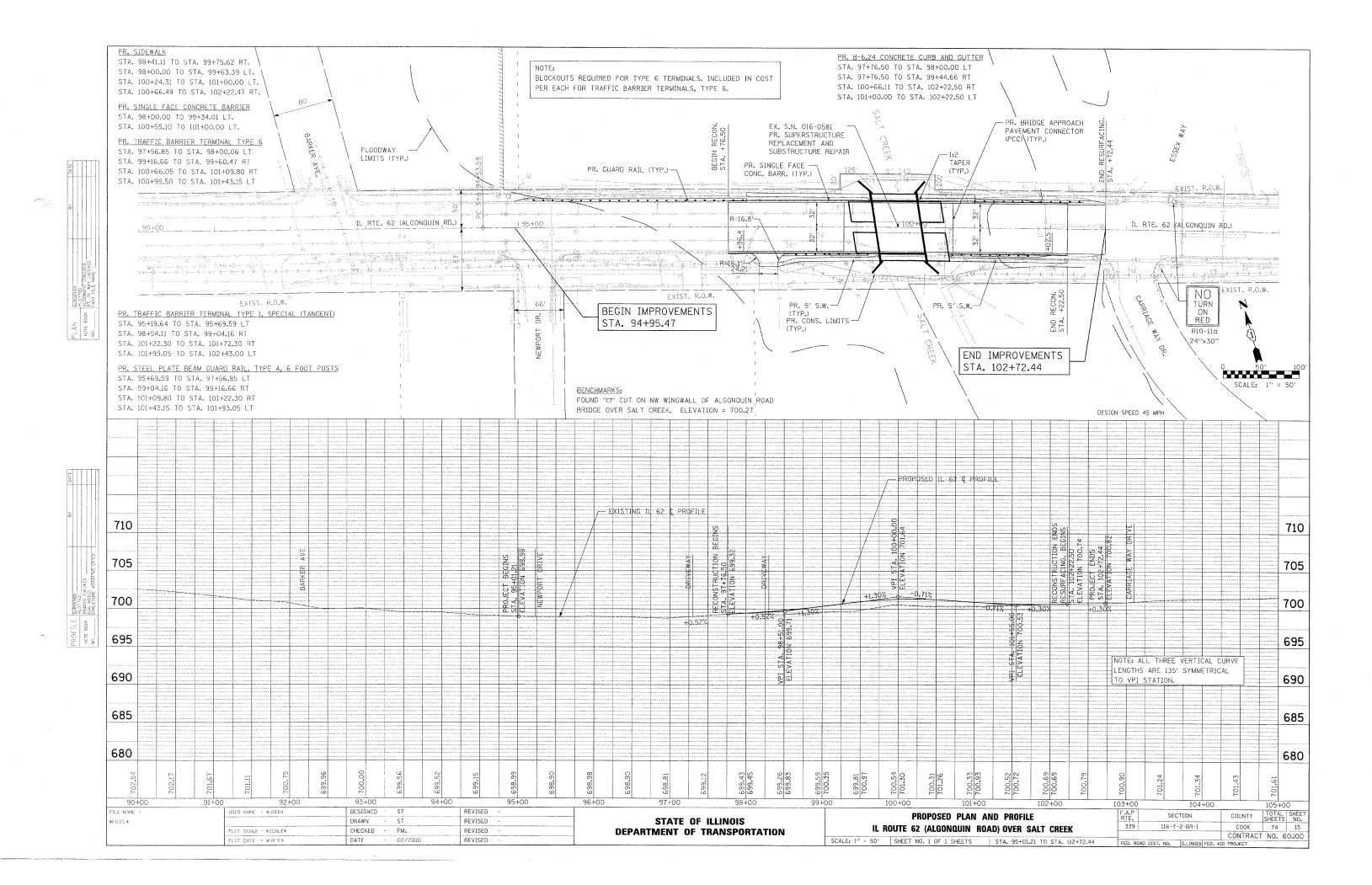
FILE NAME =	USER NAME = \$USER\$	DESIGNED - SEW	REVISED -		SCHEDULE OF QUANTITIES			F.A.P. RTE.	SECTION	COUN	TY TOTAL SHEET NO.				
\$FILEL\$		DRAWN ~ SEW	REVISED -	STATE OF ILLINOIS								339	116-Y-2-BR-1	C00	OK 74 11
	PLOT SCALE = \$SCALE\$	CHECKED - FML	REVISED -	DEPARTMENT OF TRANSPORTATION	IL ROUTE 62 (ALGONQUIN ROAD) OVER SALT CREEK					CONT	RACT NO. 60J00				
	PLOT DATE = \$DATE\$	DATE - 5/2010	REVISED -		SCALE:	SHEET NO	. OF	SHEE	TS S	STA.	TO STA.	FED. ROA	D DIST. NO.   ILLINOIS   F	D. AID PROJECT	Т

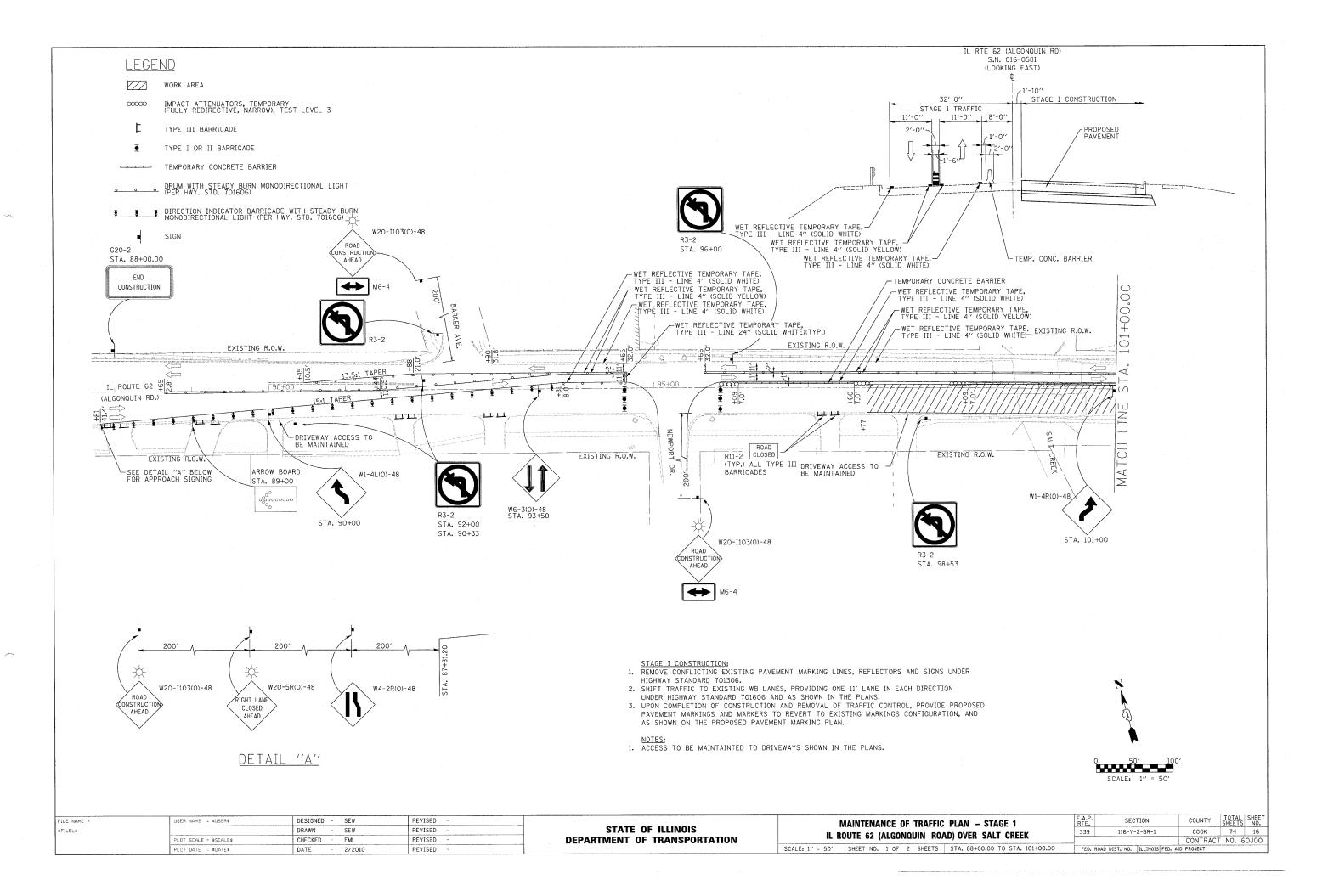


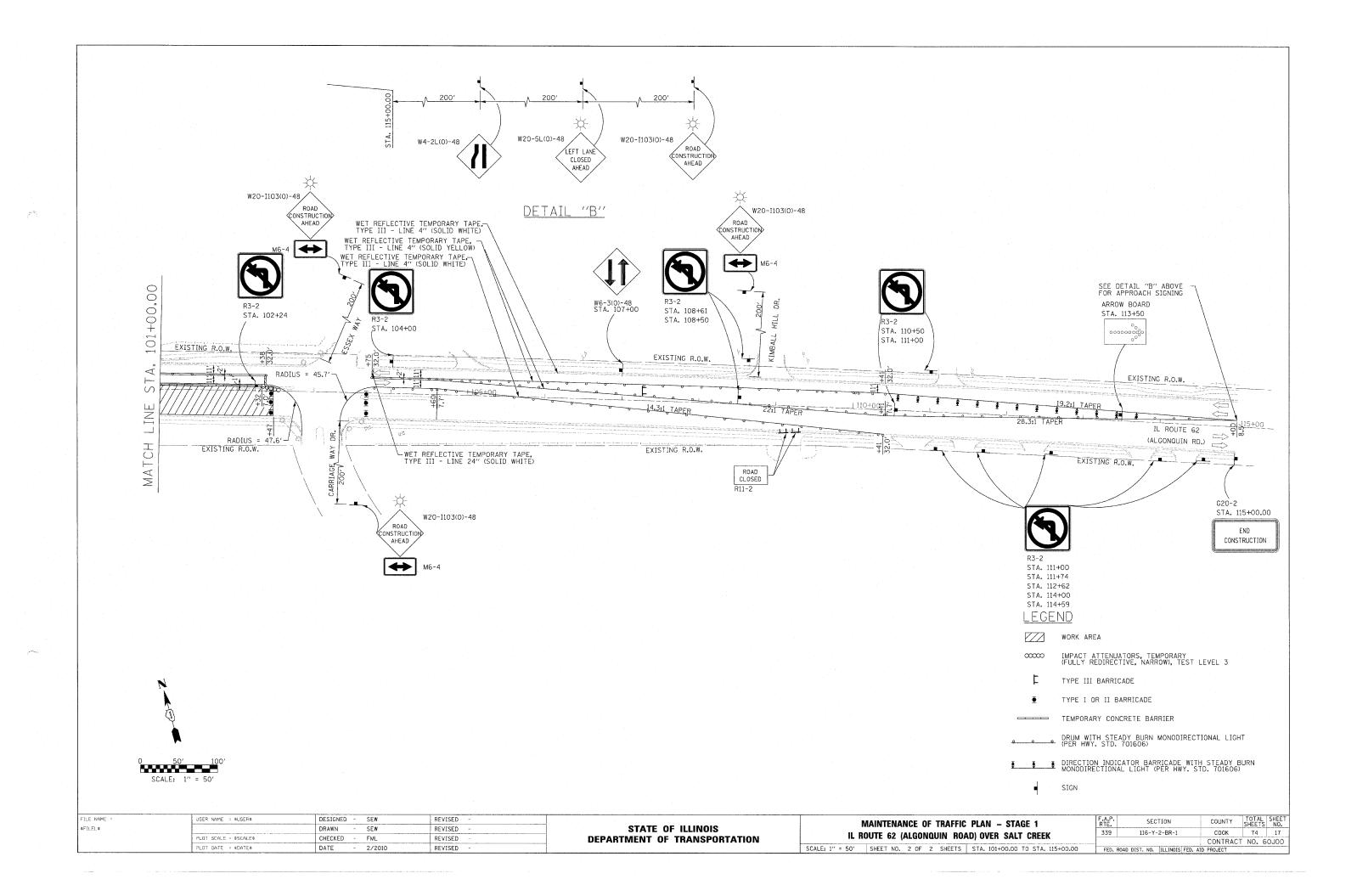
NOTE:
CONTRACTOR SHALL EXERCISE CARE DURING REMOVAL AND CONSTRUCTION
OPERATIONS TO PREVENT DAMAGE OF NEARBY USGS GAGE FACILITY, AND
APPURTENANCES MOUNTED ON THE EXISTING BRIDGE. THE CONTRACTOR
SHALL CONTACT USGS PRIOR TO BEGINNING REMOVAL AND CONSTRUCTION OPERATIONS. IL ROUTE 62 (ALGONQUIN RD.) EXIST. R.O.W. EXIST. R.O.W. LEGEND FOR REMOVAL ITEMS: APPROACH SLAB REMOVAL DRIVEWAY PAVEMENT REMOVAL PAVEMENT REMOVAL XXHMA SURFACE REMOVAL, 2" MEDIAN REMOVAL COMBINATION CURB AND GUTTER REMOVAL GUARD RAIL REMOVAL SIDEWALK REMOVAL X X X X CHAIN LINK FENCE REMOVAL X X ► X X STORM SEWER REMOVAL COUNTY TOTAL SHEET NO. FILE NAME = USER NAME = \$USER\$ DESIGNED -REVISED SEW SECTION REMOVAL PLAN STATE OF ILLINOIS COOK 74 13

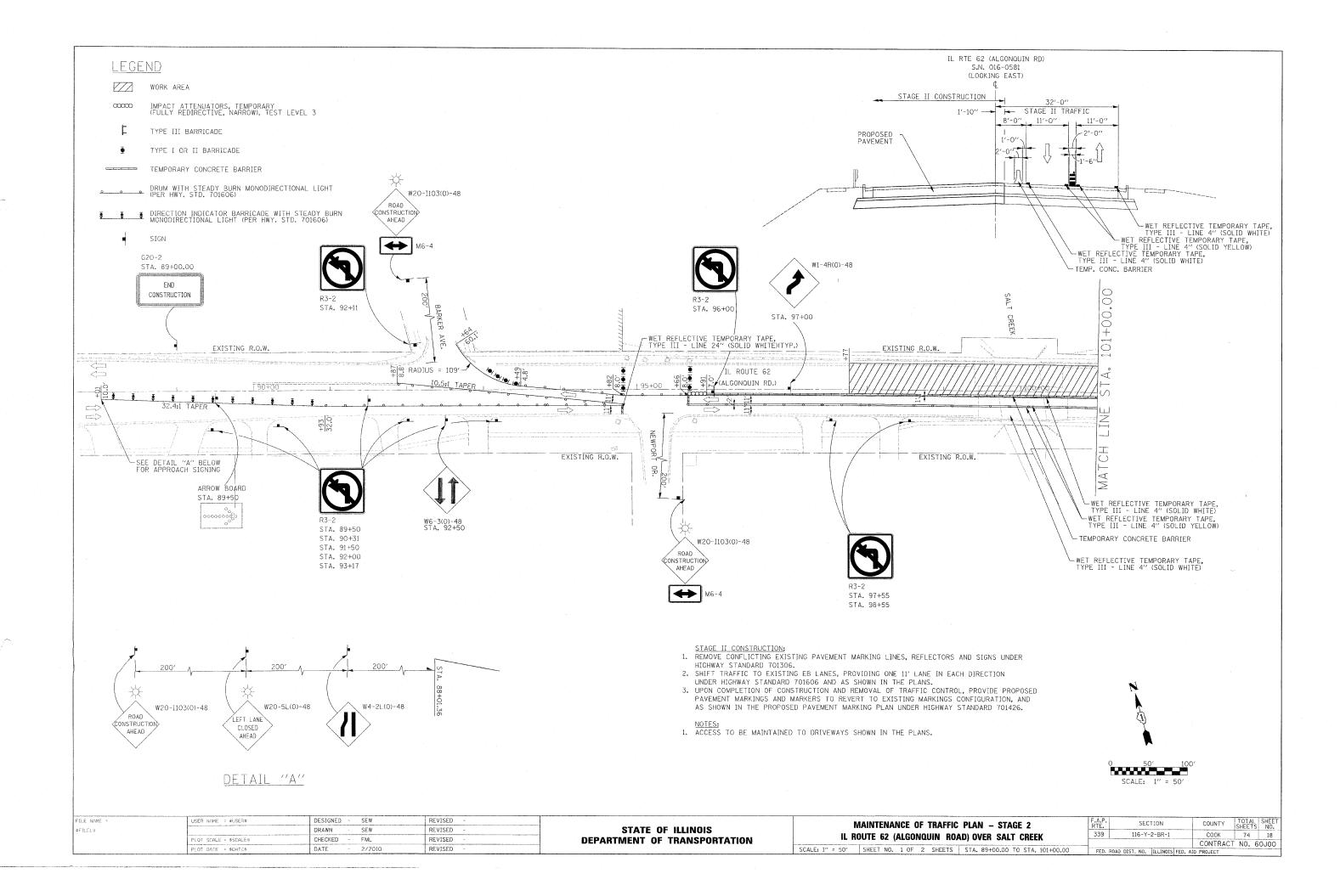
CONTRACT NO. 60J00 \$FILEL\$ DRAWN SEW REVISED 339 116-Y-2-BR-1 IL ROUTE 62 (ALGONQUIN ROAD) OVER SALT CREEK CHECKED - FML REVISED DEPARTMENT OF TRANSPORTATION DATE 2/2010 REVISED SCALE: 1" = 50' SHEET NO. 1 OF 1 SHEETS STA.

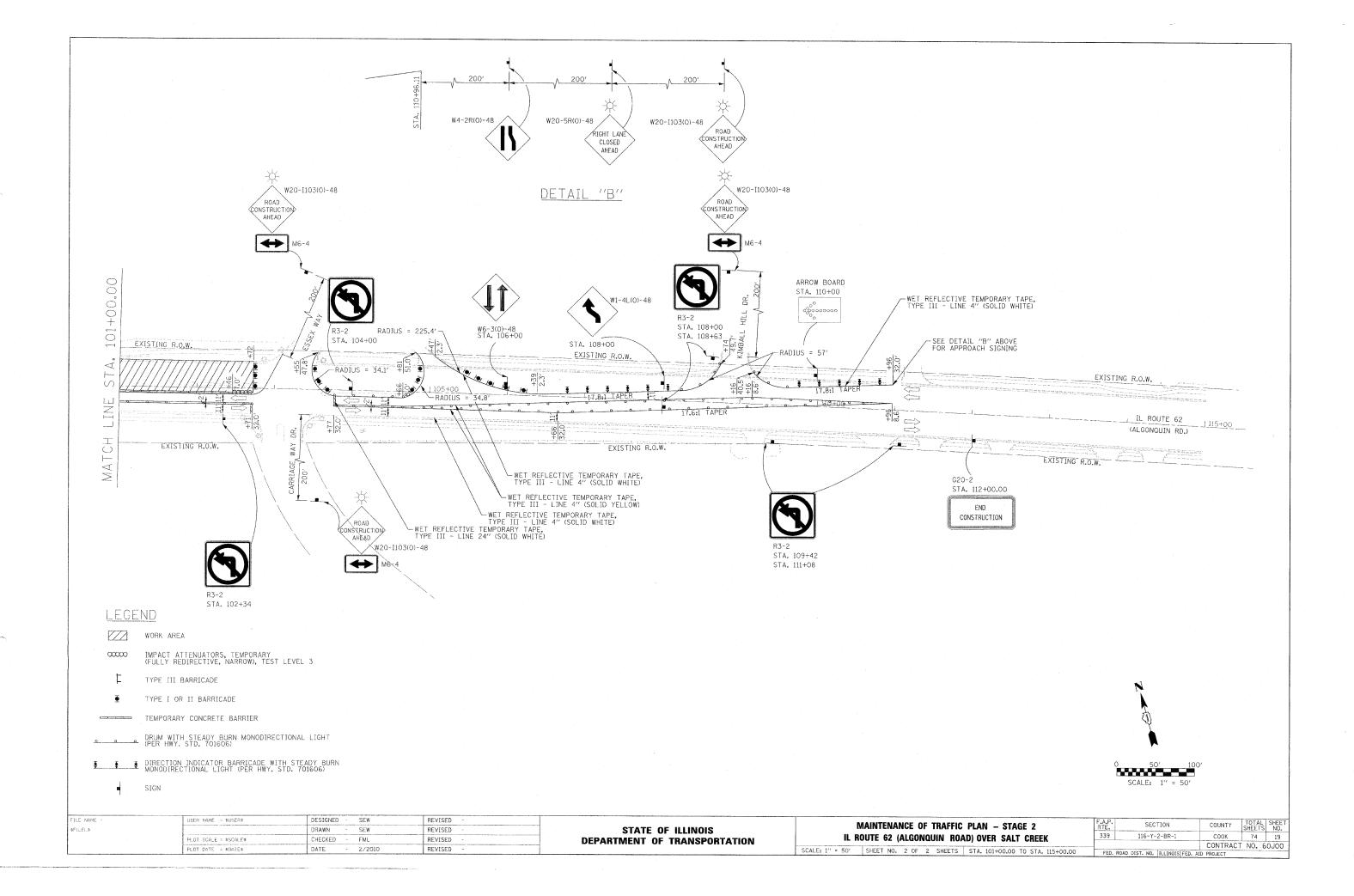












SYMBOLS:

INLET & PIPE PROTECTION / INLET FILTERS

HH

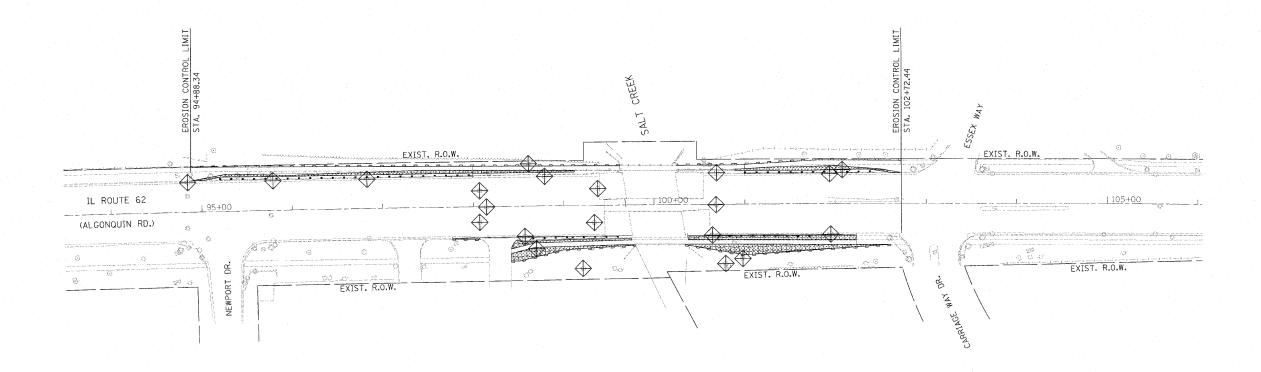
EROSION CONTROL BLANKET



SEEDING, CLASS 2A

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PERIMETER EROSION BARRIER

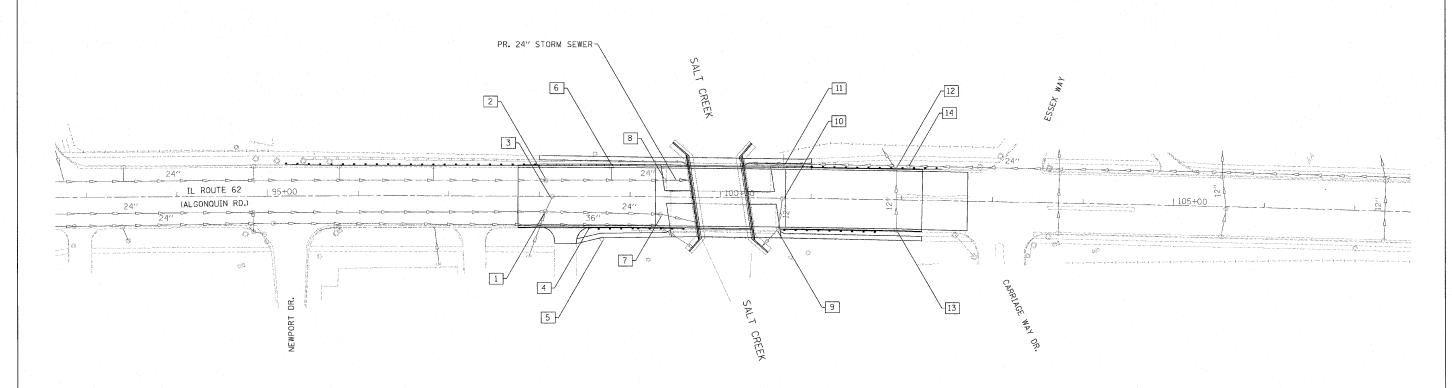


### NOTES:

- 1. THE CONTRACTOR SHALL PREVENT DEBRIS FROM FALLING INTO SALT CREEK DURING THE REMOVAL OF THE EXISTING BRIDGE. THIS WORK IS INCLUDED IN THE PAY ITEM FOR REMOVAL OF THE EXISTING STRUCTURE AND WILL NOT BE PAID FOR SEPARATELY, BUT IS CONSIDERED INCIDENTAL.
- 2. ALL EROSION CONTROL ITEMS TO BE FURNISHED AND MAINTAINED BY THE CONTRACTOR FOR THE ENTIRE DURATION OF THE PROJECT, AS DIRECTED BY THE ENGINEER.
- 3. UNLESS INDICATED OTHERWISE, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL REVISED FEBRUARY 2002.
- 4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- 5. 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 KDSWCD.
- 6. ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS. INSPECTED DAILY AND CLEANED WHEN NECESSARY.
- 7. ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND AFTER EACH 1/2" RAIN EVENT.
- 8. EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL SLOPES AND IN CRITICAL AREAS IMMEDIATELY UPON FINAL GRADING.
- 9. THE PRIORITY SHALL BE GIVEN TO THE COMPLETION AND STABILIZATION OF THE DISTRURBED AREAS. WORK IN THESE AREAS SHALL NOT BE PROLONGED IN ATTEMPT THAT ALL FINAL GRADING AND STABILIZATION CAN TAKE PLACE AT ONE TIME.
- 10. STOCKPILES OF SOIL AND OTHER MATERIALS TO REMAIL 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 21 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.
- 11. IN AREAS WHERE WORK IS COMPLETE, PERMANENT STABILIZATION SHALL OCCUR WITHIN 7 DAYS OR COMPLETION, AND IN AREAS WHERE WORK HAS TEMPORARILY CEASED FOR 21 DAYS OR MORE, TEMPORARY STABILIZATION SHALL OCCUR BY THE 14TH DAY AFTER WORK HAS CEASED.
- 12. COMPLETED SLOPES SHALL BE SEEDED AND BLANKETED AS THE EXCAVATION PROCEEDS TO THE EXTENT CONSIDERED DESIRABLE AND PRACTICAL. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.
- 13. NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN AND NEAR THE CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOW. THE STREAM BANKS SHOULD BE STABILIZED AT THE END OF EACH DAY. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.
- 14. THE SIDES SLOPE AND DITCHES MUST BE SEEDED AND STABILIZED WITH AN APPROPRIATE EROSION CONTROL BLANKET PRIOR TO ACCEPTING FLOWS.

FILE NAME :	USER NAME = \$USER\$	DESIGNED - SEW	REVISED -		EROSION CONTROL PLAN	RTE. SECTION COUNTY SHEETS	SHEET S NO.
\$FILEL\$		DRAWN - SEW	REVISED -	STATE OF ILLINOIS	IL ROUTE 62 (ALGONQUIN ROAD) OVER SALT CREEK	339 116-Y-2-BR-1 COOK 74	20
	PLOT SCALE = \$SCALE\$	CHECKED - FML	REVISED -	DEPARTMENT OF TRANSPORTATION	IL NOUTE DZ (ALGUNQUIN NUAD) OVEN SALT CREEK	_ CONTRACT NO. (	60J00
	PLOT DATE = \$DATE\$	DATE - 2/2010	REVISED -		SCALE: 1" = 50' SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

SCALE: 1"



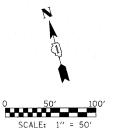
### PROPOSED DRAINAGE IMPROVEMENTS

STRUCT NUMBER	STATION	OFFSET	EXIST. RIM ELEV.	PROP. RIM ELEV.	INVERT ELEV.	PROPOSED TREATMENT
1	98+06.78	17.3′ RT.	699.20	699.15	691.50 E; 691.60 W	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
2	98+07.03	17.7' LT.	699.20	699.15	691.50 E; 691.60 W	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
· 3	98+14.43	0.4' RT.	699.44	699.55	693.44 S	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
4	98+56.72	33.4′ RT.	698.87	699.23	UNKNOWN	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
5	98+69.22	47.3' RT.	698.75	699.05	685.65 S; 684.35 E; 684.35 W	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
6	98+79.22	32.6′ LT.	698.83	699.48	692.53 S	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
- 7	99+33.96	19.1' RT.	699.54	700.39	691.04 E; 691.14 W	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
8	99+38.03	18.5' LT.	699.54	700.45	691.04 E; 691.14 W	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
9	100+64.19	34.0' RT.	699.75	700.48	695.35 N; 695.35 S	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
10	100+68.39	0.5' RT.	700.18	701.13	695.98 S	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
11	100+69.00	34.8' LT.	699.59	700.44	693.59 N	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
12	101+93.43	33.4′ LT.	699.73	700.03	693.33 N; 693.63 S	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
13	101+94.45	33.5′ RT.	699.83	700.02	695.93 N	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
14	102+07.33	37.8′ LT.	699.68	700,35	691.65 E; 691.35 W	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)

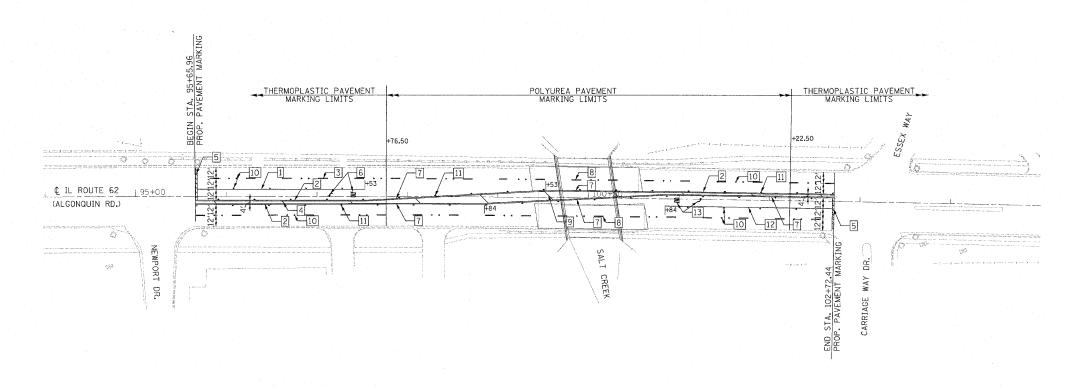
PROPOSED STORM SEWER FROM 8 TO EXISTING OUTLET CLASS A TYPE 2 - 24" DIA.
U.S. INV. = 691.04; D.S. INV. = SET TO EXISTING OUTLET

### NOTE:

RIM ELEVATIONS & OFFSETS FOR DRAINAGE STRUCTURES CONSTRUCTED IN CONJUNCTION WITH GUTTER OR CURB & GUTTER ARE CALLED OUT TO THE EDGE OF THE GUTTER PAN. ALL OTHER DRAINAGE STRUCTURES ARE CALLED OUT TO THE CENTER OF THE STRUCTURE.

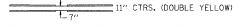


FILE NAME =	USER NAME = \$USER\$	DESIGNED - CV	REVISED -		PROPOSED DRAINAGE PLAN   F.   R		SECTION	COUNTY	TOTAL SHEET SHEETS NO.
\$FILEL\$		DRAWN - CV	REVISED -	STATE OF ILLINOIS			116-Y-2-BR-1	соок	74 21
	PLOT SCALE = \$SCALE\$	. CHECKED - FML	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRAC	CT NO. 60J00
	PLOT DATE = \$DATE\$	DATE - 02/2010	REVISED -				ILLINOIS FE	D. AID PROJECT	

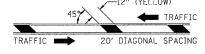


### TYPICAL PAVEMENT MARKING LEGEND

- 1 THERMOPLASTIC PAVEMENT MARKING LINE 6" (SOLID WHITE)
- THERMOPLASTIC PAVEMENT MARKING LINE 4" (DOUBLE YELLOW)
- 3 THERMOPLASTIC PAVEMENT MARKING LINE 4" (SKIP DASH WHITE)
- 4 THERMOPLASTIC PAVEMENT MARKING LINE 12" (DIAGONAL SOLID YELLOW)
- 5 THERMOPLASTIC PAVEMENT MARKING LINE 24" (SOLID WHITE)
- 6 THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS
- 7 POLYUREA PAVEMENT MARKING TYPE I LINE 4" (DOUBLE YELLOW)
- 8 POLYUREA PAVEMENT MARKING TYPE I LINE 4" (SKIP DASH WHITE)
- 9 POLYUREA PAVEMENT MARKING TYPE I LINE 12" (DIAGONAL SOLID YELLOW)
- 10 ONE-WAY CRYSTAL MARKER
- 11 TWO-WAY AMBER MARKER
- 12 POLYUREA PAVEMENT MARKING TYPE I LINE 6" (SOLID WHITE)



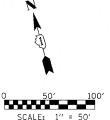




- → ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

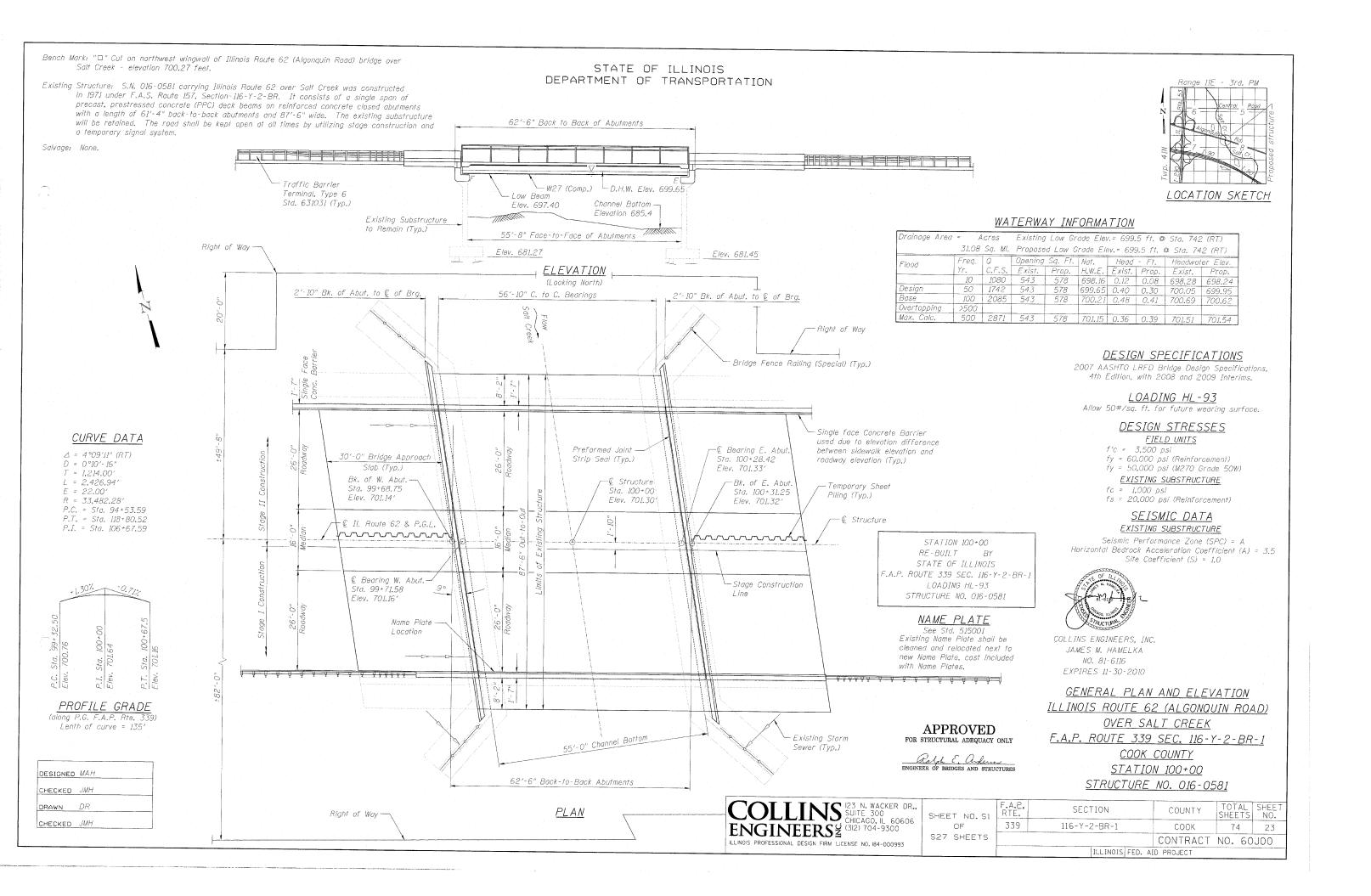


1. PAVEMENT MARKINGS TO BE INSTALLED IN ACCORDANCE WITH



13 POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	DI	STRICT STANDARD TC-13: "DISTRICT ONE TYPICAL PAVEMENT MARKINGS".

USER NAME = \$USER\$	DESIGNED - SEW	REVISED ~			PAVEMENT MARKING PLAN	F.A.P.	SECTION	COUNTY	SHEETS NO.
	DRAWN - SEW	REVISED -	STATE OF ILLINOIS			339	116-Y-2-BR-1	СООК	74 22
PLOT SCALE = \$SCALE\$	CHECKED - FML	REVISED -	DEPARTMENT OF TRANSPORTATION	IL K	DUTE BZ (ALGUNUUIN KUAD) UVER SALT CREEK			CONTRAC	T NO. 60J00
PLOT DATE = SDATES	DATE - 2/2010	REVISED -		SCALE: 1" = 50"	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED, RO	OAD DIST. NO. ILLINOIS FED.	AID PROJECT	
	COLO WITE POSCIO	PLOT SCALE = SSCALES CHECKED - FML	DRAWN - SEW   REVISED -	DRAWN - SEW REVISED -  PLOT SCALE = SSCALES CHECKED - FML REVISED -  DRAWN - SEW REVISED -  DEPARTMENT OF TRANSPORTATION  PLOT DATE - 2/2010 REVISED -	DRAWN - SEW REVISED - STATE OF ILLINOIS PLOT SCALE = SSCALE \$ CHECKED - FML REVISED - DEPARTMENT OF TRANSPORTATION  PLOT DATE = SDATES  PLOT DATE = SDATES  PLOT DATE = SDATES  PLOT DATE = SCALE   1/2 = 50/2	DRAWN - SEW REVISED -  PLOT SCALE = SSCALE \$ CHECKED - FML REVISED -  DEPARTMENT OF TRANSPORTATION  PLOT DATE - SPATE - 2/2010 PEVISED -  STATE OF ILLINOIS  IL ROUTE 62 (ALGONQUIN ROAD) OVER SALT CREEK	DRAWN - SEW REVISED -  PLOT SCALE = SSCALE S CHECKED - FML REVISED -  PROJUBLE = SPATE - 2/2010 PEVISED -  PROJUBLE = SPATE - 2/2010 PEVISED -  STATE OF ILLINOIS  DEPARTMENT OF TRANSPORTATION  PLOT DATE = SPATE - 2/2010 PEVISED -  SCALE   1/2   50/2 SHEET NO 1 OF 1 SHEETS STA TO STA	DRAWN - SEW REVISED -  PLOT SCALE = SSCALE S CHECKED - FML REVISED -  DEPARTMENT OF TRANSPORTATION  STATE OF ILLINOIS  DEPARTMENT OF TRANSPORTATION  PLOT DATE = SPOTES DATE - 2/2010 PEVISED -  SCALE   1/2 = 50/2   SHEET NO 1 OF 1 SHEETS STALE TO STALE   STALE DATE   SHEETS STALE TO STALE    SCALE   1/2 = 50/2   SHEET NO 1 OF 1 SHEETS STALE TO STALE    SCALE   1/2 = 50/2   SHEET NO 1 OF 1 SHEETS STALE TO STALE    SCALE   1/2 = 50/2   SHEET NO 1 OF 1 SHEETS STALE TO STALE    SCALE   1/2 = 50/2   SHEET NO 1 OF 1 SHEETS STALE TO STALE    SCALE   1/2 = 50/2   SHEET NO 1 OF 1 SHEETS STALE TO STALE    SCALE   1/2 = 50/2   SHEET NO 1 OF 1 SHEETS STALE TO STALE    SCALE   1/2 = 50/2   SHEET NO 1 OF 1 SHEETS STALE TO STALE    SCALE   1/2 = 50/2   SHEET NO 1 OF 1 SHEETS STALE TO STALE    SCALE   1/2 = 50/2   SHEET NO 1 OF 1 SHEETS STALE TO STALE    SCALE   1/2 = 50/2   SHEET NO 1 OF 1 SHEETS STALE TO STALE    SCALE   1/2 = 50/2   SHEET NO 1 OF 1 SHEETS STALE TO STALE    SCALE   1/2 = 50/2   SHEET NO 1 OF 1 SHEETS STALE    SCALE   1/2	DRAWN - SEW REVISED -  PLOT SCALE = SSCALE \$ CHECKED - FML REVISED -  PLOT DATE - SPORTS DATE - 2/2010 SEVISED -  STATE OF ILLINOIS  DEPARTMENT OF TRANSPORTATION  STATE OF ILLINOIS  IL ROUTE 62 (ALGONQUIN ROAD) OVER SALT CREEK  SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   50/2   SHEET NO   1 OF   1 SHEETS   STA   TO STA    SCALE   1/2   1/2   SHEET NO   1 OF



### GENERAL NOTES:

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts in painted areas and M164 Type 3 in unpainted areas. Bolts  $\frac{3}{4}$  in.  $\phi$ , holes  $\frac{13}{16}$  in.  $\phi$ , unless otherwise noted.

Calculated weight of Structural Steel = Gr 50W = 132,300 Lbs.

All structural steel shall be AASHTO M 270 Grade 50W except expansion joints which shall be AASHTO M 270 Grade 50. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".

No field welding is permitted except as specified in the contract documents.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and the first interior beam at each of these additional bracket locations.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid

Concrete Sealer shall be applied to the new concrete surfaces of the faces of abutments, bridge seats and backwalls of the closed abutments.

All structural steel and exposed surfaces of bearings within a distance of 7 ft. each way from the deck joints shall be painted as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

Existing abutment reinforcement shall be cleaned and incorporated into the new construction. Cost included with "Concrete Removal."

Slipforming of the parapets is not allowed.

The Contractor is advised that the existing PPC Deck beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

If the Contractor's procedures for existing deck beam removal or construction of the new superstructure involves placement of heavy equipment on the existing deck beams, a detailed procedure shall be submitted to the Engineer for approval, The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the deck beams for the proposed loads. Cost included with Removal of Existing Structures.

There are utilities attached to the northern portions of the superstructure and substructure of the bridge that may or may not be related to the USGS gaging station. It shall be the Contractor's responsibility to determine the utility owners and to coordinate and maintain and temporarily support (or remove, protect and re-erect) the utilities during construction. The cost of this work shall be included in the pay item for "Removal of Existing Superstructures".

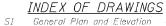
Portions of the wingwalls are buried. The Contractor shall excavate and remove soil and clear vegetation as required to complete the repairs to the wingwalls. The areas that are impacted shall be restored and shall be solded with a Salt Tolerant Sod according to the Section 252 of the Standard Specifications. This work shall be included in the pay item "Bridge Fence Railing (Special)".

DESIGNED	MAH
CHECKED	JMH
DRAWN	DR
CHECKED	JMH

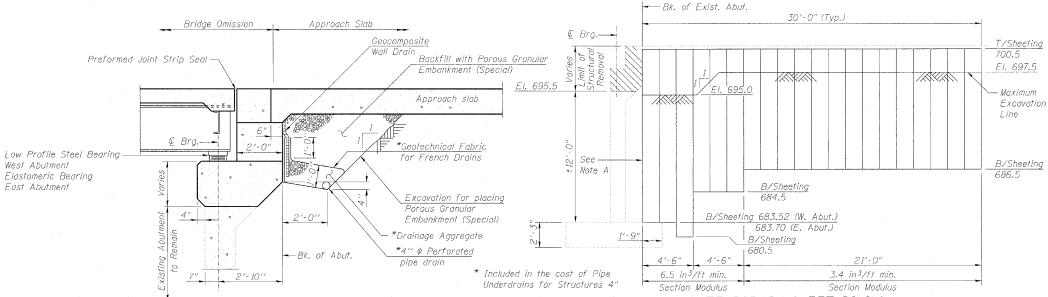
### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

### TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.	0	88	88
Removal of Existing Superstructures	Each	1	0	1
Concrete Removal	Cu. Yd.	0	64.4	64.4
Structure Excavation	Cu. Yd.	0	98	-98
Concrete Structures	Cu. Yd.	0	134.3	134.3
Concrete Superstructure	Cu. Yd.	394.8	0	394.8
Bridge Deck Grooving	Sq. Yd.	918	0	918
Protective Coat	Sq. Yd.	1,101	0	1,101
Furnishing and Erecting Structural Steel	L. Sum	1	0	1
Stud Shear Connectors	Each	3,672	0	3,672
Reinforcement Bars, Epoxy Coaled	Pound	90,020	15,760	105,780
Bar Splicers	Each	355	- 300	655
Bicycle Railing	F.oot -	120	0	120
Parapet Railing	Foot	120	.0	120
Temporary Sheet Piling	Sq. Ft.	0	894	894
Name Plates	Each	1	0	1
Preformed Joint Strip Seal	Foot	178	0	178
Elastomeric Bearing Assembly, Type I	Each	0	12	12
Anchor Bolts, <sup>5</sup> 8"	Each	- 0	24	24
Anchor Bolts, 3 <sub>4</sub> "	Each	0	24	24
Concrete Sealer	Sq. Ft.	0	930	930
Epoxy Crack Injection	. Foot	0 -	15	<i>1</i> 5
Geocomposite Wall Drain	Sq. Yd.	0 .	78	78
Pipe Underdrains for Structures 4"	Foot -	0	185	185
Structural Repair of Concrete (depth greater than 5 inches)	Sq. Ft.	0	128	128
Structural Repair of Concrete (depth equal to or less than 5 inches)	Sq. Ft.	0	34	34
Bridge Fence Railing (Special)	Sq. Ft.	0	364	364
. Asbestos Bearing Pad Removal	Each	. 58		58



- S2 General Data S3
- Construction Stages Top of Deck Elevations (Sheet 1 of 2)
- 55 Top of Deck Flevations (Sheet 2 of 2)
- Top of Approach Slab Elevations
- Superstructure Plan and Cross Section
- Superstructure Details
- East Bridge Approach Slab Details (Sheet 1 of 2)
- S10 East Bridge Approach Slab Details (Sheet 2 of 2)
- SII West Bridge Approach Slab Details (Sheet 1 of 2)
- S12 West Bridge Approach Slab Details (Sheet 2 of 2)
- S13 Ricycle Railina
- S14 Bridge Fence Railing (Special) (Sheet 1 of 2)
- S15 Bridge Fence Railing (Special) (Sheet 2 of 2)
- S16 Preformed Joint Strip Seal
- S17 Framing Plan Details
- S18 Steel Details
- S19 Bearing Details
- S20 Existing East Abutment
- S21 Existing West Abutment
- S22 Proposed East Abutment
- S23 Proposed West Abutment
- S24 Abutment Details
- S25 Bar Splicer Assembly and Mechanical Splicer Details
- S26 Cantilever Forming Brackets for Superstructures with W27 Beams and Smaller
- \$27 Temporary Concrete Barrier for Stage Construction



### SECTION THRU ABUTMENTS

(Horiz dim @ Rt 1's) Excavation is paid for as Structure Excavation

All drainage system components shall extend the full length of the abutments except an outlet pipe. shall extend until intersecting with the wingwalls. The wingwalls shall be cored to accept the outlet pipe. The outlet pipe shall not be located closer than 2'-0" to the top of the wingwall. This work shall be included in the pay item for Pipe Underdrains for Structures 4".

### Note A:

The contractor shall connect the temporary sheet piling to the existing abutment to ensure stability of sheets driven to the top of the existing footing. This connection and details to close off the area between the first sheet and the abutment stem shall be reviewed and approved by the engineer and all cost shall be included under Temporary Sheet Piling pay item.

### TEMPORARY SHEET PILING

(EAST AND WEST ABUTMENT) Information shown is estimated.

> GENERAL DATA STRUCTURE NO. 016-0581

60606 ENGINEERS 2 (312) 704-9300 LINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000993

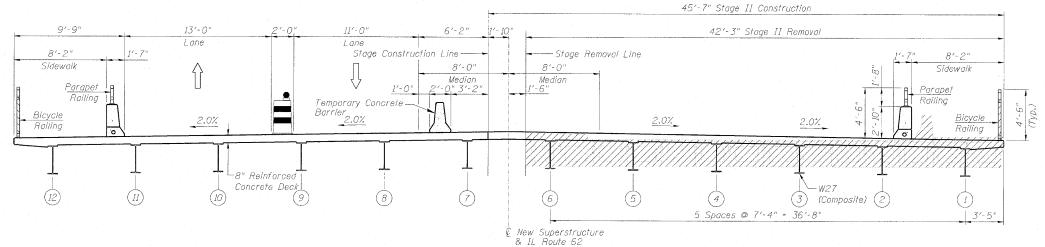
SHEE	r No. S2	
	OF .	
S27	SHEETS	

>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	339	116-Y-2-BR-1	COOK	74	24
			CONTRACT	NO. 60	J00
		ILLINOIS FED. AI	D PROJECT		

### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION 45'-3" Stage I Removal 41'-11" Stage I Construction Stage Removal Line 8'-2" Stage Construction Line — 7'-0" Sidewalk 8'-0" Median 3'-6" Sidewalk (Typ.)Lane Temporary ] [ Concrete V Barrier 2.0% 2.0% -8" Reinforced Existing interconnect/-detector loop cables to be relocated in parapet - W27 Concrete Deck (Composite)(7) © New Superstructure & IL Route 62 ∠2" ¢ Conduit 5 Spaces @ 7'-4" = 36'-8"

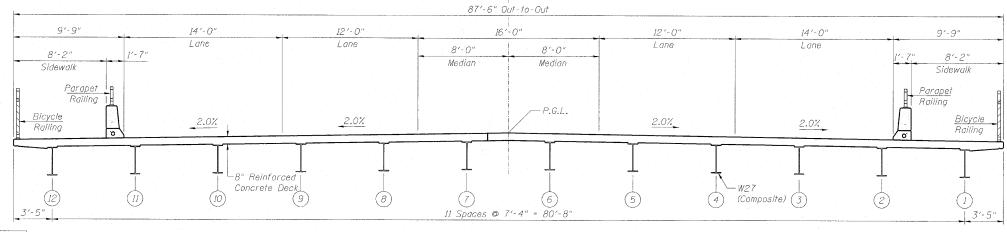
### STAGE I CROSS-SECTION

(Looking West)



### STAGE II CROSS-SECTION

Proposed F.A.P. Route 339



The existing conduit located on the south fascia of the bridge shall be relocated/temporary supported during construction. This work shall be included in the pay item for "Removal of Existing Superstructures".

See sheet S2 of S27 for Staged Construction Temporary Sheet Piling Details.

For quantity of Temporary Concrete Barrier see Roadway Plans.

> CONSTRUCTION STAGES STRUCTURE NO. 016-0581

PROPOSED CROSS-SECTION (Looking West)

COLLINS 123 N. WACKER DR., SUITE 300 CHICAGO, IL 60606 ENGINEERS (312) 704-9300	
ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000993	ŀ

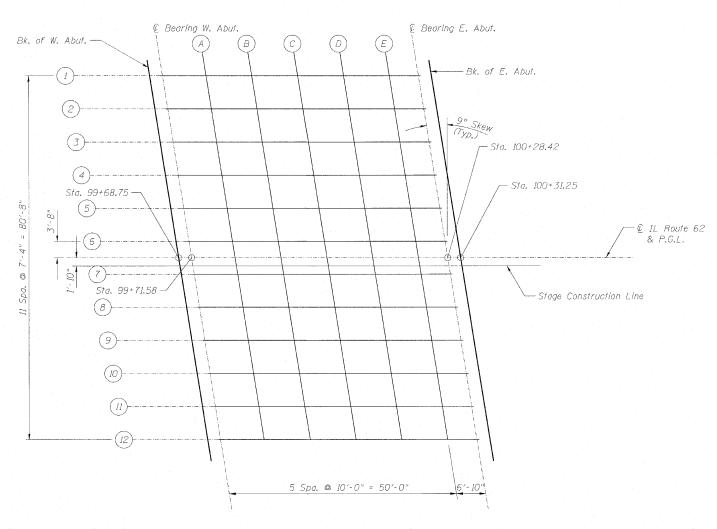
	F
SHEET NO. S3	_
OF	
S27 SHEETS	-

3	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	339	116-Y-2-BR-1	COOK	74	25
3-			CONTRACT	NO. 60	J00
	-	ILLINOIS FED A	ID PROJECT		

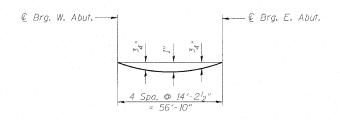
DESIGNED	MAH
CHECKED	JMH
DRAWN	DR
CHECKED	JMH

### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





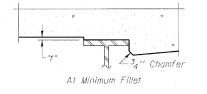
DECK PLAN

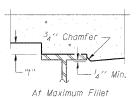


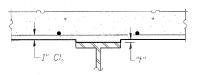
### DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of Concrete Deck and all Superimposed Dead Load Except Future Wearing Surface)

The above deflections are not to be used in the field if the engineer is working from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection."







### INTERIOR BEAM

### EXTERIOR BEAMS NOTE:

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheet S5. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet S5, minus slab thickness, equals the fillet heights "t" above top flange of

FILLET HEIGHTS

(Sheet 1 of 2)
TOP OF DECK ELEVATIONS STRUCTURE NO. 016-0581

COLLINS 123 N. WACKER DR., SUITE 300 CHICAGO, IL 60606 ENGINEERS 2 (312) 704-9300	
ENGINEERS 2 (312) 704-9300	
ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO.184-000993	ľ

HEET NO. S4	F.A.P. RTE.	SECTION
OF .	339	116-Y-2-BR-1
527 SHEETS		
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54	F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
34	339	116-Y-2-BR-1		COOK	74	26
S				CONTRACT	NO. 60	J00
		ILLINOIS FED.	. AII	) PROJECT		

DESIGNED MAH CHECKED JMH DRAWN DR CHECKED JMH

### STATE OF ILLINOIS Department of transportation

BEAM 1						
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection		
Bk. of W. Abut.	99+62.36	40.33	700.28	700.28		
CL Brg at W. Abut.	99+65.20	40.33	700.30	700.30		
A	99+75.20	40.33	700.37	700.41		
В	99+85.20	40.33	700.43	700.50		
С	99+95.20	40.33	700.48	700.55		
D	100+05.20	40.33	700.51	700.57		
E	100+15.20	40.33	700.52	700.55		
CL Brg at E. Abut.	100+22.03	40.33	700.52	700.52		
Bk. of E. Abut.	100+24.86	40.33	700.52	700.52		

BEAM 2						
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection		
Bk. of W. Abut.	99+63.52	33.00	700.43	700.43		
CL Brg at W. Abut.	99+66.36	33.00	700.46	700.46		
Α	99+76.36	33.00	700.53	700.57		
В	99+86.36	33.00	700.59	700.65		
_ C	99+96.36	33.00	700.63	700.71		
D	100+06.36	.33.00	700.66	700.72		
E	100+16.36	33.00	700.67	700.70		
CL Brg at E. Abut.	100+23.19	33.00	700.67	700.67		
Bk. of E. Abut.	100+26.02	33.00	700.67	700.67		

BEAM 3						
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection		
Bk. of W. Abut.	99+64.68	25.67	700.59	700.59		
CL Brg at W. Abut.	99+67.52	25.67	700.61	700.61		
Α	99+77.52	25.67	700.68	700,72		
В	99+87.52	25.67	700.74	. 700.81		
С	99+97.52	25.67	700.78	700.86		
D	100+07.52	25.67	700.80	700.87		
- E	100+17.52	25.67	700.82	700.85		
CL Brg at E. Abut.	100+24.35	25.67	700.81	700.81		
Bk. of E. Abut.	100+27.18	25.67	700.81	700.81		

BEAM 4							
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection			
Bk. of W. Abut.	99+65.85	18.33	700.75	700.75			
CL Brg at W. Abut.	99+68.68	18.33	700.77	700.77			
A	99+78.68	18.33	700.84	700.88			
В	99+88.68	18.33	700.89	700.96			
С	99+98.68	18.33	700.93	701.01			
D	100+08.68	18.33	700.95	701.02			
E <sup>-</sup>	100+18.68	18.33	700.96	700.99			
CL Brg at E. Abut.	100+25.51	18.33	700.96	700,96			
Bk. of E. Abut.	100+28.35	18.33	700.96	700.96			

BEAM 5					
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection	
Bk. of W. Abut.	99+67.01	11.00	700.90	700.90	
CL Brg at W. Abut.	99+69.84	11.00	700.92	700.92	
Α	99+79.84	11.00	700.99	701.03	
В	99+89.84	11.00	701.04	701.11	
С	99+99.84	11.00	701.08	701.16	
D	100+09.84	11.00	701.10	701.17	
E	100+19.84	11.00	701.11	701.14	
CL Brg at E. Abut.	100+26.67	11.00	701.11	701.11	
Bk. of E. Abut.	100+29.51	11.00	701.10	701.10	

	BEAM 6						
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection			
Bk. of W. Abut.	99+68.17	3.67	701.06	701.06			
CL Brg at W. Abut.	99+71.00	3,67	701.08	701.08			
. A	99+81.00	3.67	701.14	701.19			
В	99+91.00	3.67	701.19	701.26			
C	100+01.00	3.67	701.23	701.31			
. D	100+11.00	3.67	701.25	701.31			
E	100+21.00	3.67	701.26	701.29			
CL Brg at E. Abut.	100+27.84	3.67	701.25	701.25			
Bk. of E. Abut.	100+30.67	3.67	701.25	701.25			

CL Roadway & PGL					
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection	
Bk. of W. Abut.	99+68.75	0.00	701.13	701.13	
CL Brg at W. Abut.	99+71.58	0.00	701.16	701.16	
Α	99+81.58	0.00	701.22	701.26	
В	99+91.58	0.00	701.27	701.34	
С	100+01.58	0.00	701.30	701.38	
D	100+11.58	0.00	701.32	701.39	
E	100+21.58	0.00	701.33	701.36	
CL Brg at E. Abut.	100+28.42	0.00	701.32	701.32	
Bk. of E. Abut.	100+31.25	0.00	701.32	701.32	

	Stage Construction Line					
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection		
Bk. of W. Abut.	99+69.04	1.83	701.10	701.10		
CL Brg at W. Abut.	99+71.87	1.83	701.12	701.12		
A	99+81.87	1.83	701.19	701.23		
В	99+91.87	1.83	701.23	701.30		
C	100+01.87	1.83	701.27	701.35		
D	100+11.87	1.83	701.29	701.35		
E	100+21.87	1.83	701.29	701.32		
CL Brg at E. Abut.	100+28.71	1.83	701.29	701.29		
Bk. of E. Abut.	100+31.54	1.83	701.29	701.29		

BEAM 7					
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection	
Bk. of W. Abut.	99+69.33	3.67	701.07	701.07	
CL Brg at W. Abut.	99+72.16	3.67	701.09	701.09	
A	99+82.16	3.67	701.15	701.19	
В.	99+92.16	3.67	701.20	701.27	
, C	100+02.16	3.67	701.23	701.31	
D	100+12.16	3.67	701.25	701.32	
E	100+22.16	3.67	701.26	701.29	
CL Brg at E. Abut.	100+29.00	3.67	701.25	701.25	
Bk. of E. Abut.	100+31.83	3.67	701.25	701.25	

BEAM 8					
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection	
Bk. of W. Abut.	99+70.49	11.00	700.93	700.93	
CL Brg at W. Abut.	99+73.33	11.00	700.95	700.95	
Α	99+83.33	11.00	701.01	701.05	
В	99+93.33	11.00	701.06	701.13	
C	100+03.33	11.00	701.09	701.17	
D	100+13.33	11.00	701.11	701.17	
E	100+23.33	11.00	701.11	701.14	
CL Brg at E. Abut.	100+30.16	11.00	701.10	701.10	
Bk. of E. Abut.	100+32.99	11.00	701.10	701.10	

BEAM 9					
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grad Elevations Adjusted for Dea Load Deflection	
Bk. of W. Abut.	99+71.65	18.33	700.79	700.79	
CL Brg at W. Abut.	99+74.49	18.33	700.81	700.81	
А	99+84.49	18.33	700.87	700.91	
В	99+94.49	18.33	700.91	700.98	
C ·	100+04.49	18.33	700.95	701.02	
D	100+14.49	18.33	700.96	701.02	
E	100+24.49	18.33	700.96	700.99	
CL Brg at E. Abut.	100+31.32	18.33	700.95	700.95	
Bk. of E. Abut.	100+34.15	18.33	700.95	700.95	

BEAM 10						
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection		
Bk. of W. Abut.	99+72.82	25.67	700.65	700.65		
CL Brg at W. Abut.	99+75.65	25.67	700.67	700.67		
Α	99+85.65	25.67	700.73	700.77		
В	99+95.65	25.67	700.77	700.84		
С	100+05.65	25.67	700.80	700.88		
D	100+15.65	25.67	700.81	700.88		
E	100+25.65	25.67	700.81	700.84		
CL Brg at E. Abut.	100+32.48	25.67	700.80	700.80		
Bk. of E. Abut.	100+35.32	25.67	700.80	700.80		

		BEAM 11	* *	
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of W. Abut.	99+73.98	33.00	700.51	700.51
CL Brg at W. Abut.	99+76.81	33.00	700.53	700.53
A	99+86.81	33.00	700.59	700.63
В	99+96.81	33.00	700.63	700.70
C	100+06.81	33.00	700.66	700.73
D	100+16.81	33.00	700.67	700.73
E	100+26.81	33.00	700.67	700.70
CL Brg at E. Abut.	100+33.64	33.00	700.66	700.66
Bk. of E. Abut.	100+36.48	33.00	700.65	700.65

		100		
		BEAM 12		
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. of W. Abut.	99+75.14	40.33	700.37	700.37
CL Brg at W. Abut.	99+77.97	40.33	700.39	700.39
Α	99+87.97	40.33	700.45	700,49
В	99+97.97	40.33	700.49	700.55
С	100+07.97	40.33	700.51	700.59
D	100+17.97	40.33	700.52	700.58
E	100+27.97	40.33	700.52	700.55
CL Brg at E. Abut.	100+34.80	40.33	700.51	700.51
Bk. of E. Abut.	100+37.64	40.33	700.50	700.50

(Sheet 2 of 2)

TOP OF DECK ELEVATIONS

STRUCTURE NO. 016-0581

DESIGNED MAH

CHECKED JMH

DRAWN DR

CHECKED JMH

COLLINS 123 N. WACKER DR., SUITE 300 CHICAGO, IL 60606 ENGINEERS (312) 704-9300	
ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000993	ľ

SHEE	Т	NO.	S5	
	0	E.		
S27	S	HEE.	TS	

5	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
_	339	116-Y-2-BR-1	COOK	74	27	
			CONTRACT	NO. 60	J00	
	ILLINOIS FED, AID PROJECT					

### NORTH EDGE OF SLAB

Locations	Stations	Offset	Theoretical Grade Elevations
W. End of W. Appr. Pav't	99+33.61	35.58	700.06
A1.	99+43.61	35.58	700.18
A2	99+53.61	35.58	700.29
E. End of W. Appr. Pav't	99+63.61	35.58	700.38

### NORTH EDGE OF PAVEMENT/FACE OF PARAPET

2	Locations	Stations	Offset	Theoretical Grade Elevations
	W. End of W. Appr. Pav't	99+33.86	34.00	700.10
	A1	99+43.86	34.00	700.22
	A2	99+53.86	34.00	700,32
	E. End of W. Appr. Pav't	99+63.86	34.00	700.42

### <u>PGL</u>

		-	
Locations	Stations	Offset	Theoretical Grade Elevations
W. End of W. Appr. Pav't	99+39.25	0.00	700.84
A1	99+49.25	0.00	700.96
A2	99+59.25	0.00	701.06
E. End of W. Appr. Pav't	99+69.25	0.00	701.14

### STAGE CONSTRUCTION JOINT

Locations	Stations	Offset	Theoretical Grade Elevations
W. End of W. Appr. Pav't	99+39.54	1.83	700.81
A1	99+49.54	1.83	700.92
A2	99+59.54	1.83	701.02
E. End of W. Appr. Pav't	99+69.54	1.83	701.10

### SOUTH EDGE OF PAVEMENT/FACE OF CURB

Locations	Stations	Offset	Theoretical Grade Elevations
W. End of W. Appr, Pav't	99+44.64	34.42	700.22
A1	99+54.64	34,42	700.32
A2	99+64.64	34.00	700.42
E. End of W. Appr. Pav't	99+74.64	34.00	700.50

### SOUTH EDGE OF SLAB

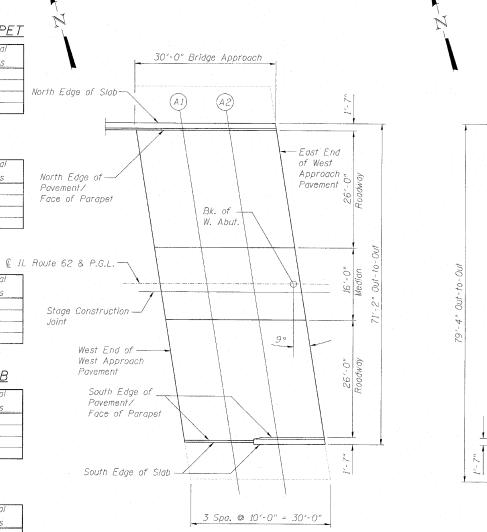
Stations	Offset	Theoretical Grade Elevations
99+46.18	34.92	700.21
99+56.18	34.92	700.32
99+66.18	35.58	700.39
99+76.18	35.58	700.47
	99+46.18 99+56.18 99+66.18	99+46.18 34.92 99+56.18 34.92 99+66.18 35.58

DESIGNED MAH

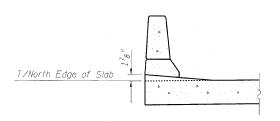
CHECKED JMH

DRAWN DR

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



### WEST APPROACH PAVEMENT



NORTH PARAPET OFFSET
(Also South Parapet on West Approach)

### NORTH EDGE OF SLAB

Locations	Stations	Offset	Theorefical Grade Elevations
W. End of E. Appr. Pav't	100+25.11	35.58	700.62
A3	100+35.11	<i>35.58</i>	700.60
A 4	100+45.11	35.58	700.57
E. End of E, Appr. Pav't	100+55.11	35.58	700.53

### NORTH EDGE OF PAVEMENT/FACE OF PARAPET

Locations	Stations	Offset	Theoretical Grade Elevations
W. End of E. Appr. Pav't	100+25.36	34.00	700.65
A3	100+35.36	34.00	700.63
A4	100+45,36	34.00	700.60
E. End of E. Appr. Pav't	100+55.36	34.00	700.56

### <u>PGL</u>

Locations	Stations	Offset	Theoretical Grade Elevations
W. End of E. Appr. Pav't	100+30.75	0.00	701.32
A3	100+40.75	0.00	701.30
A4	100+50.75	0.00	701.26
E. End of E. Appr. Pav't	100+60.75	0.00	701.21

### STAGE CONSTRUCTION JOINT

Locations	Stations	Offset	Theoretical Grade Elevations
W. End of E. Appr. Pav't	100+31.04	1.83	701.28
A3	100+41.04	1.83	701.26
A4	100+51.04	1.83	701,22
E. End of E. Appr. Pav't	100+61.04	1.83	701.17

### SOUTH EDGE OF PAVEMENT/FACE OF PARAPET

Locations	Stations .	Offset	Theoretical Grade Elevations
W. End of E. Appr. Pav't	100+36.14	34.00	700.63
A3	100+46.14	34.00	700.60
A4	100+56.14	34.00	700.55
E. End of E. Appr. Pav't	100+66.14	34.00	700.49

### SOUTH EDGE OF SLAB

Locations	Stations	Offset	Theoretical Grade Elevations
W. End of E. Appr. Pay't	100+37.68	43.75	700.43
A3	100+47.68	43.75	700,40
A4	100+57.68	43.75	700.35
E. End of E. Appr. Pav't	100+67.68	43.75	700.28

# TOP OF APPROACH SLAB ELEVATIONS STRUCTURE NO. 016-0581

COLLINS 123 N. WACKER DR., SUITE 300 CHICAGO, IL 60606 ENGINEERS 2 (312) 704-9300

30'-0" Bridge Approach

L 9°

West End ---

of East

Approach Pavement (A4)

- Bk. of E. Abut.

3 Spa. © 10′-0" = 30′-0"

EAST APPROACH PAVEMENT

North Edge of Slab

— North Edge of

Face of Parapet

--- € IL Route 62 & P.G.L.

Pavement/

└─ Stage Construction Joint

– East End of

Pavement

Pavement/.

East Approach

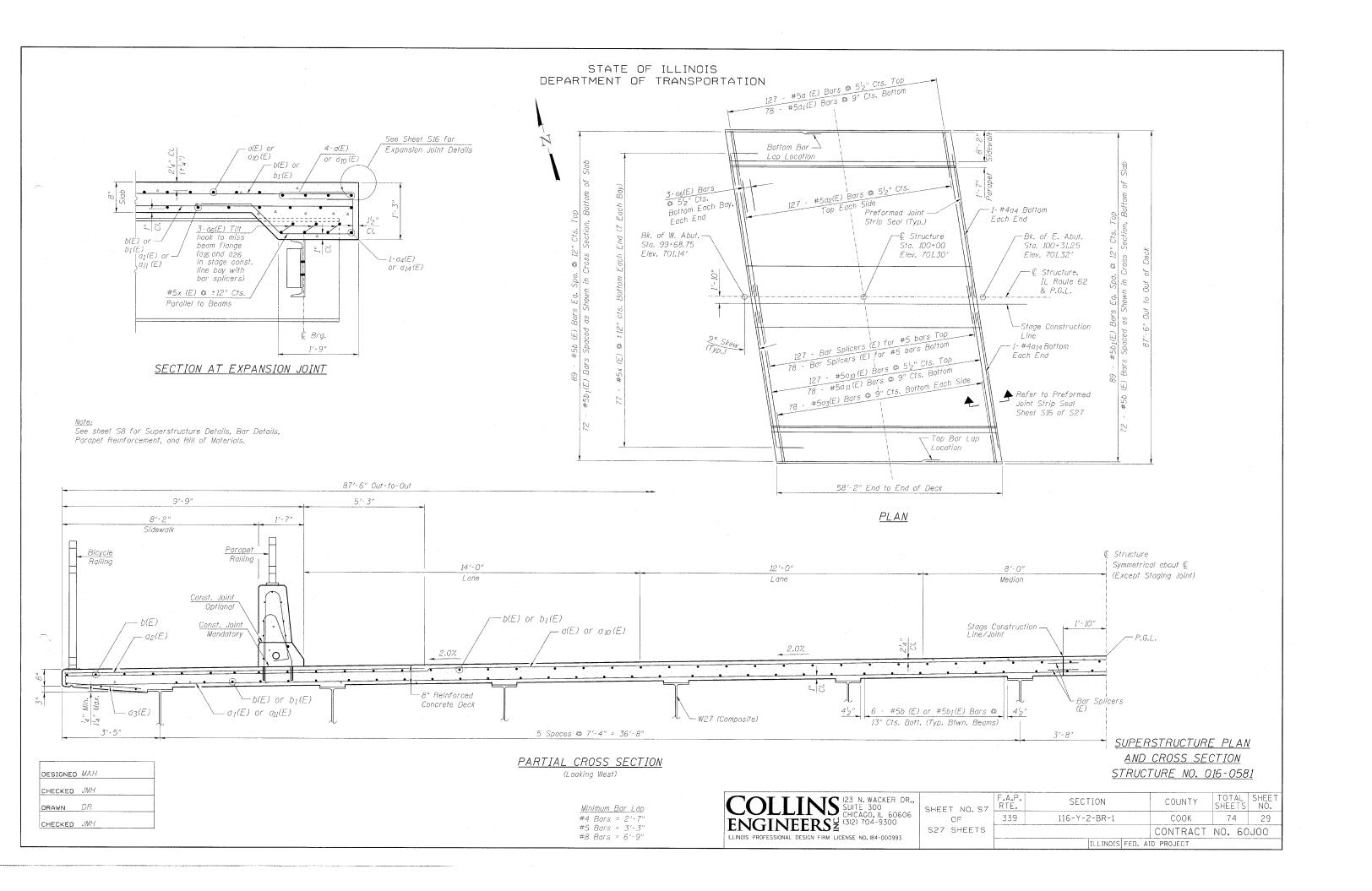
-South Edge of

South Edge of Slab

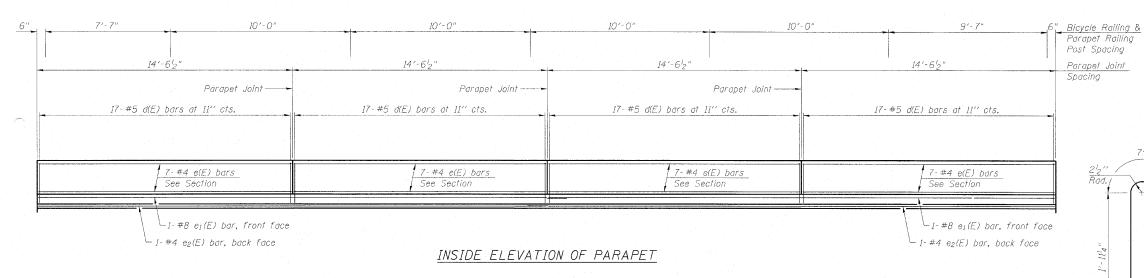
Face of Parapet

SHEE	Т	NO.	S6
	0	F.	
S27	S	HEE	TS

3	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	339	116-Y-2-BR-1	COOK	74	28
			CONTRACT	NO. 60	J00
	ILLINOIS FED. AID PROJECT				







Parapet

2½" Cl. Min.

#5 d1(E) at 11" cts.

#4 e(E) -

PARAPET REINFORCEMENT
FOR INTERIOR DECK PARAPET LOCATIONS

Core and set #5 d (E) bar according to Article 509.06 of the Standard Specifications. Cored holes shall be roughened or scored per manufacturer's recommendations.

Maximum depth of hole shall not exceed 6".

л— a<sub>2</sub>(Е)

-a1(E) or

a<sub>11</sub>(E)

 $b_1(E)$ 

Z<sub>03</sub>(E)

Const. Jt (Optional)

#8 e<sub>I</sub>(E)

(Mandatory)

. . . . .

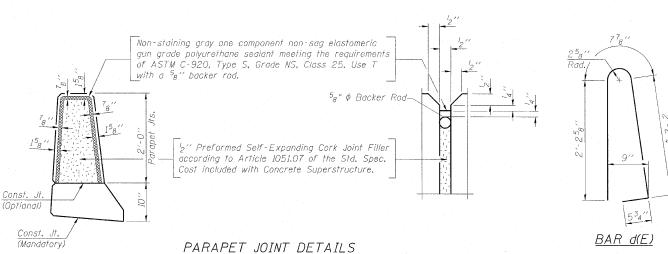
#5 d(E) -

at 11" cts.

### <u>SUPERSTRUCTURE</u> <u>BILL OF MATERIAL</u>

Bar	No.	Size	Length	Shape
a(E)	127	#5	45'-10"	
a <sub>1</sub> (E)	78	#5	45'-6"	
a <sub>2</sub> (E)	254	#5	15'-0"	
03(E)	156	#5	2'-8''	L
04(E)	2	#5	42'-4"	
a <sub>6</sub> (E)	60	. #5	8'-4"	
a 10 (E)	127	#5	42'-2"	
a <sub>11</sub> (E)	-78	#5	41'-10"	
a 14 (E)	2	#5	38'-7''	
0 16 (E)	6	#5	2'-2"	
a 26(E)	6	#5	5′- <i>10′′</i>	<u> </u>
b(E)	161	#5	35′-7"	
b1(E)	161	#5	25′-7"	
d(E)	136	#5	5′-7"	]
d1(E)	136	#5	4'-8"	<u></u>
e(E)	56	#4	. 14'-2"	
e1(E)	4	#8	32′-6"	ļ
e2(E)	4	#4	30′-5″	
x(E)	154	#5	6'-5"	
Reinforce Epoxy Co		rs,	Pound	37,640
Concrete Superstru	icture	-	Cu. Yds.	152.2

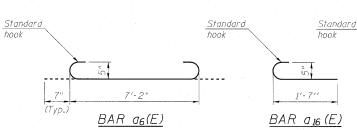
### $BAR d_1(E)$

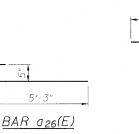


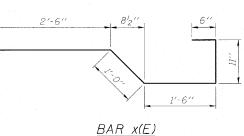
Reinforcement bars designated (E) shall be epoxy coated.

Reinforcement bars shall not pass thru aluminum sheets and cork joint filler.









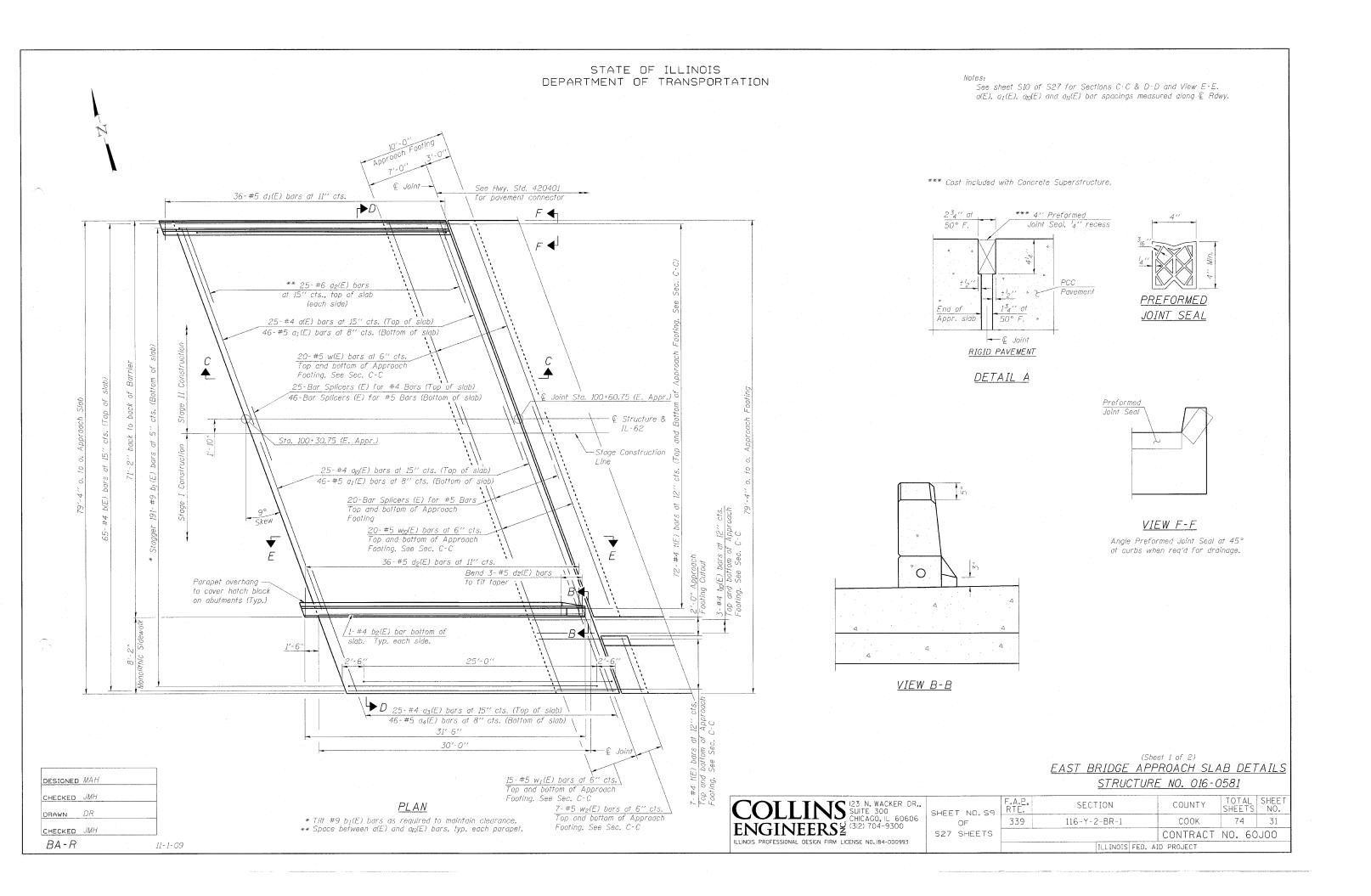
### SUPERSTRUCTURE DETAILS STRUCTURE NO. 016-0581

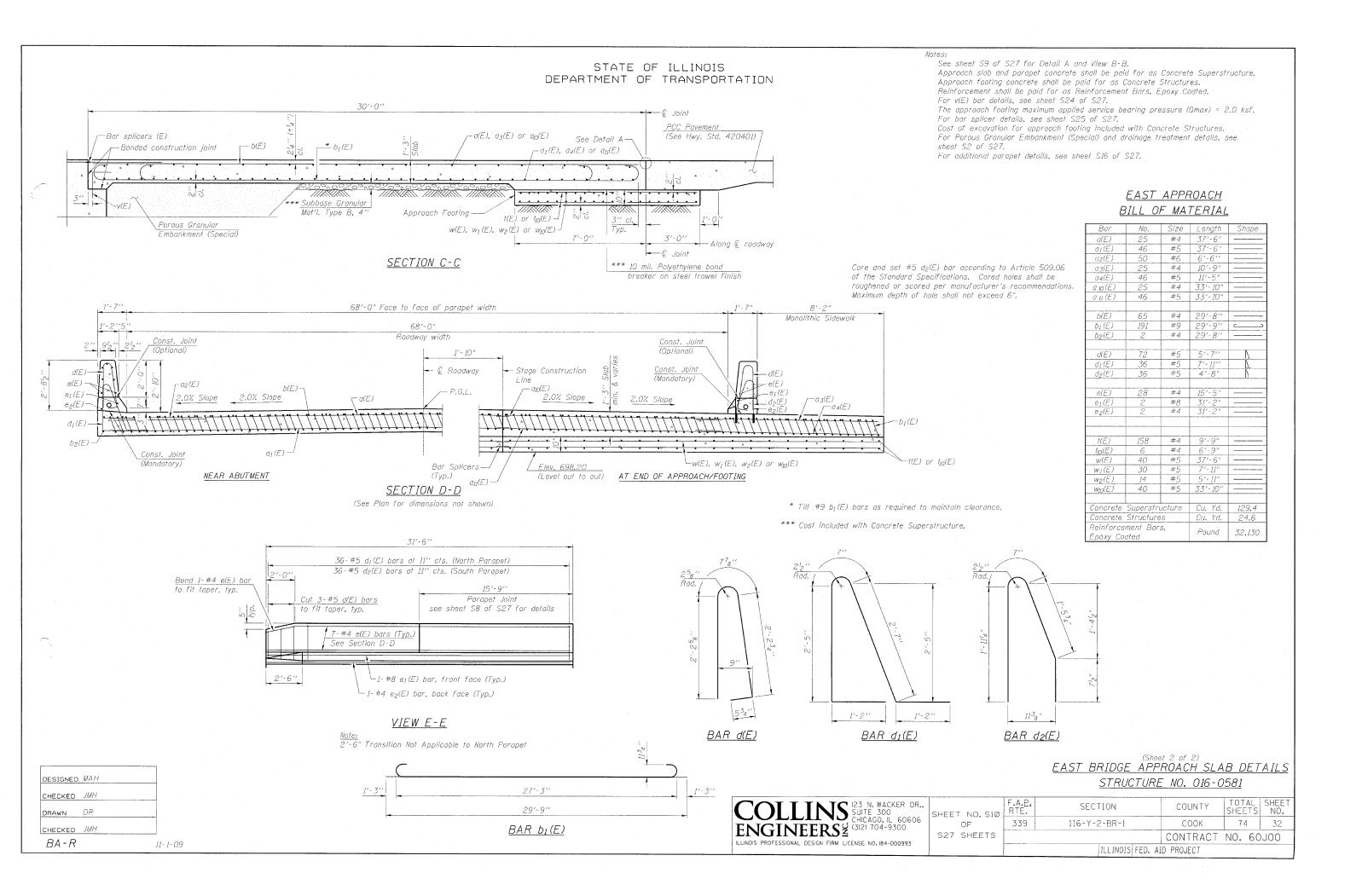
COLLING 123 N. WACKER DR.,	
COLLINS SUITE 300 CHICAGO, IL 60606	9
ENGINEERS 2 (312) 704-9300	
ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000993	

	그는
SHEET NO. S8	F
OF	
S27 SHEETS	

RTE.	SECTION	COUNTY	SHEETS	NO.
339	116-Y-2-BR-1	COOK	74	30
		CONTRACT	NO. 60	)J00
	ILLINOIS FED. AI	D PROJECT		

# DESIGNED MAH CHECKED JMH DRAWN DR CHECKED JMH

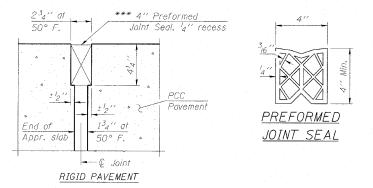




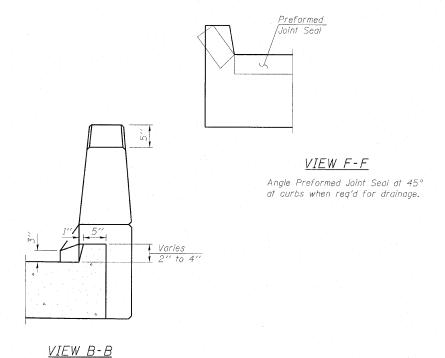
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION 1-#4 b2(E) bar bottom of · Q. Joint See Hwy. Std. 420401 36-#5 d<sub>1</sub>(E) bars at 11" cts. for pavement connector 10/  $\downarrow$   $_F$ \*\* 25-#6 a<sub>2</sub>(E) bars at 15" cts., top of slab 25-#4 a(E) bars at 15" cts. (Top of slab) 46-#5 a<sub>1</sub>(E) bars at 8" cts. (Bottom of slab) 20-#5 w(E) bars at 6" cts. Top and bottom of Approach Footing. See Sec. C-C 25-Bar Splicers (E) for #4 Bars (Top of slab) € Joint Sta. 99+39.25 (W. Appr. 46-Bar Splicers (E) for #5 Bars (Bott. of slab) €. Structure & -IL-62 Sta. 99+69.25 (W. Appr.) Stage Construction — 13-#4 g<sub>20</sub>(E) bars at / 13-#4 g<sub>0</sub>(E) bars at 15", cts. (Top of slab) / 15" cts. (Top of slab) 46-#5 a<sub>11</sub>(E) bars at 8" cts. (Bottom of slab) 20-Bar Splicers (E) for #5 Bars
Top and bottom of Approach Footing 20-#5 w<sub>10</sub>(E) bars at 6" cts. Top and bottom of Approach Footing, See Sec. C-C Parapet overhang to cover hatch block on abutments (Typ.)  $|\hat{\beta}| = \sqrt{1 - \#4 |b_{12}(E)| |bar| |bottom|} |\delta|$ 1-#4 b3(E) bar in curb 13-#4 a<sub>2</sub>(E) bars at 15" cts. (Top of slab) 19-#5 d<sub>1</sub>(E) bars at 11" cts. € Joint --30'-0"

See sheet S12 of S27 for Sections C-C & D-D and View E-E. a(E),  $a_1$ (E),  $a_0$ (E) and  $a_0$ (E) bar spacings measured along Q Rdwy,

\*\*\* Cost included with Concrete Superstructure.



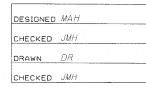
### DETAIL A



(Sheet 1 of 2) WEST BRIDGE APPROACH SLAB DETAILS STRUCTURE NO. 016-0581

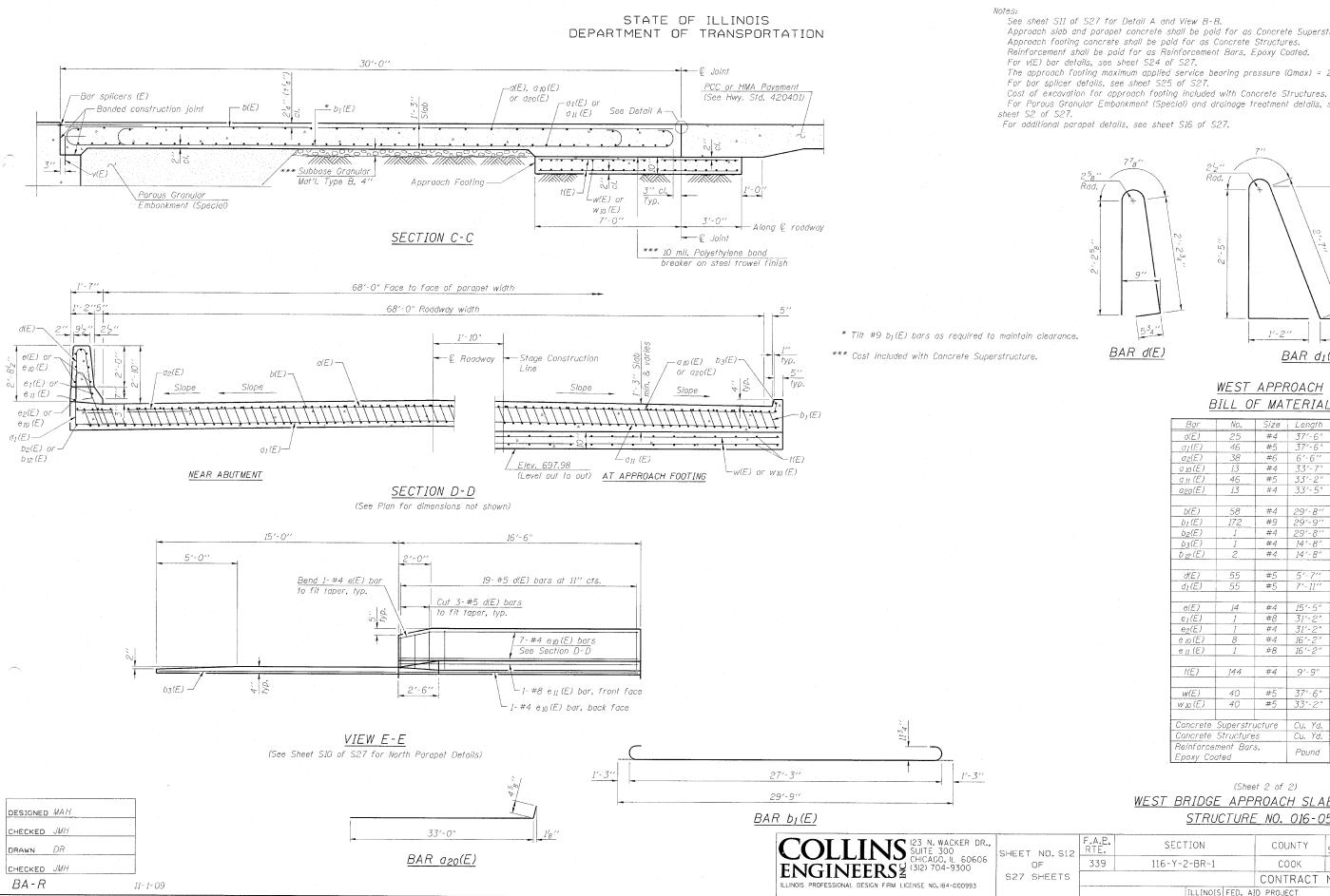
LLINS 123 N. WACKER DR.,
SHITE 300
CHICAGO, IL 60606

F.A.P. RTE. TOTAL SHEET NO. SECTION SHEET NO. S11 339 74 32A 116-Y-2-BR-1 OF COOK S27 SHEETS CONTRACT NO. 60J00 ILLINOIS FED. AID PROJECT



\* Tilt #9 b<sub>1</sub>(E) bars as required to maintain clearance. \*\* Space between a(E) and  $a_{10}(E)$  bars, typ. each parapet.

BA-R 11-1-09



See sheet S11 of S27 for Detail A and View B-B.

Approach slab and parapet concrete shall be paid for as Concrete Superstructure.

Approach footing concrete shall be paid for as Concrete Structures.

Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.

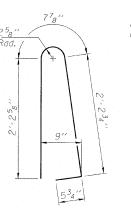
For v(E) bar details, see sheet S24 of S27.

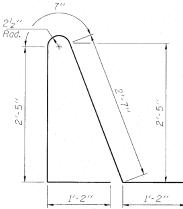
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

For bar splicer details, see sheet S25 of S27.

For Porous Granular Embankment (Special) and drainage treatment details, see

For additional parapet details, see sheet S16 of S27.





BAR d(E)

WEST APPROACH

BILL OF MATERIAL

 $BAR d_1(E)$ 

Bar	No.	Size	Length	Shape
a(E)	25	#4	37′-6"	
σ <sub>I</sub> (E)	- 46	#5	37'-6"	-
a2(E)	- 38	#6	6'-6"	
a 10 (E)	13	#4	33'-7"	
a 11 (E)	46	#5	33'-2"	
a20(E)	13	#4	33′-5"	
b(E)	58	#4	29'-8''	
b1(E)	172	#9	29'-9''	c
b2(E)	1	#4	29'-8''	
b3(E)	1	#4	14'-8"	
b <sub>12</sub> (E)	. 2	#4	14'-8"	
d(E)	55	#5	5'-7"	N
d1(E)	55	. #5	7'-11''	N.
e(E)	14	#4	15′-5"	
e <sub>1</sub> (E)	1	#8	31'-2"	
e <sub>2</sub> (E)	1	#4	31'-2"	
e 10 (E)	. 8	#4	16'-2"	
e 11 (E)	. 1	#8	16'-2"	
†(E)	144	#4	9'-9"	
w(E)	40	#5	37′-6"	
w 10 (E)	40	#5	33'-2"	
	Superstru		Cu. Yd.	113.2
Concrete	Structure	5	Cu. Yd.	22.2

### (Sheet 2 of 2) WEST BRIDGE APPROACH SLAB DETAILS

Reinforcement Bars,

Poxy Coated

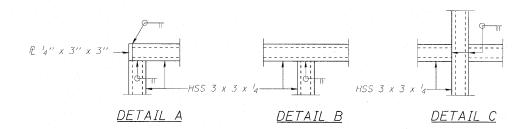
STRUCTURE NO. 016-0581

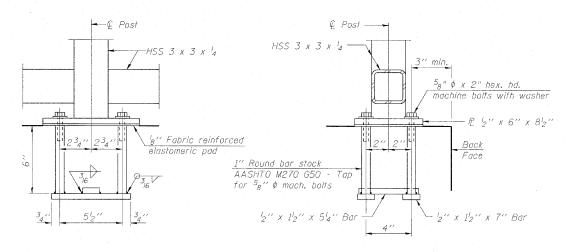
Pound 28,505

SHEET NO. S12	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
OF	339	116-Y-2-BR-1	COOK	74	32B
S27 SHEETS			CONTRACT	NO. 60	J00
	ILLINOIS FED. AID PROJECT				

# Detail A See Sheet S8 for Post Spacing Holders at ±2'-0" cts. max. Detail B Comparison of Sidewalk Detail A BICYCLE RAILING Detail A See Sheet S8 for Post Spacing Detail B

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



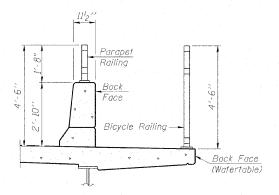


### ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting  $^58''$   $\phi$  anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



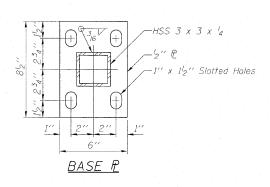
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

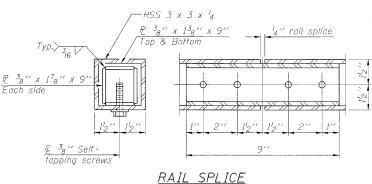


SECTION THRU DECK

### BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	. 120
Parapet Railing	Foot	120





.

BICYCLE RAILING STRUCTURE NO. 016-0581

COLLINS 123 N. WACKER DR., SUITE 300 CHICAGO, IL 60606 ENGINEERS 2 (312) 704-9300 S2

SHEET NO. S13
OF
S27 SHEETS

S13 RTE. SECTION COUNTY SHEETS NO.
339 116-Y-2-BR-1 COOK 74 33

CONTRACT NO. 60J00

ILLINOIS FED. AID PROJECT

DESIGNED MAH

CHECKED JMH

DRAWN DR

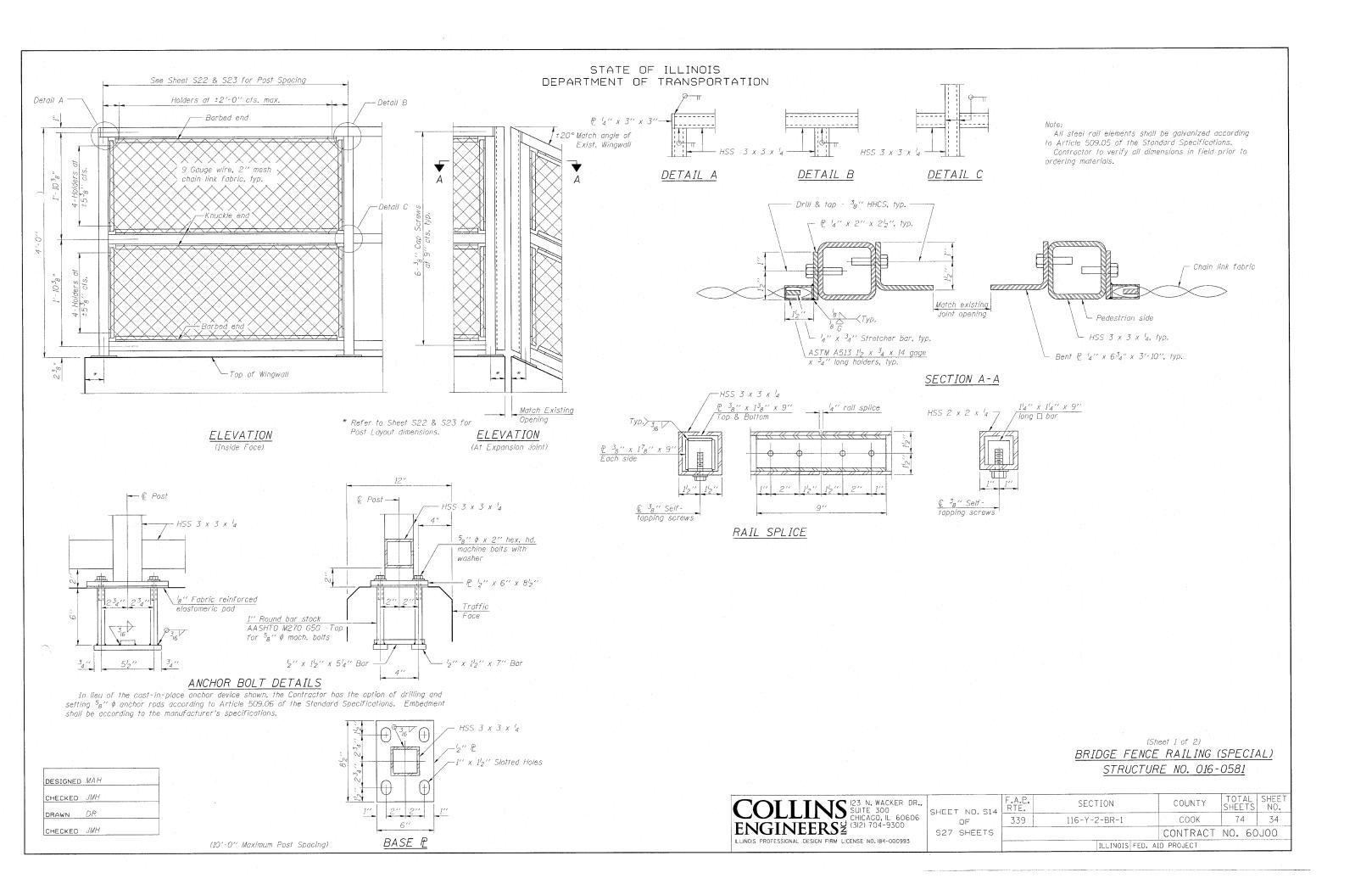
CHECKED JMH

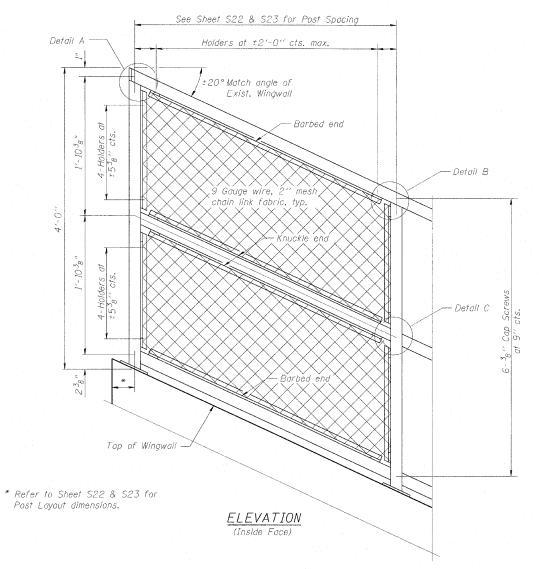
(10'-0'' Maximum Post Spacing)

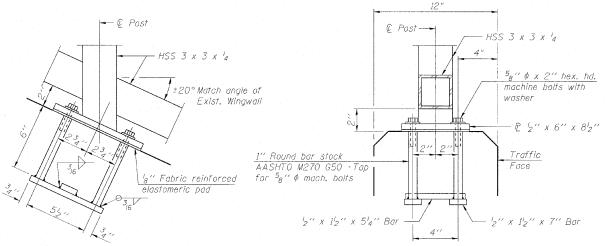
Top of parapet

PARAPET RAILING

<u>ELEVATION</u>
(Inside Face of Two Element Rail)







DESIGNED MAH

CHECKED JMH

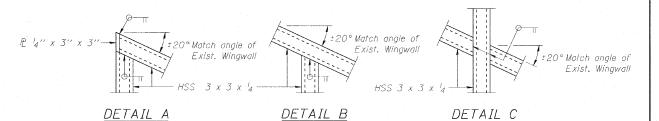
DRAWN DR

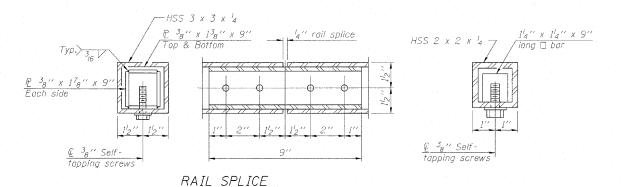
CHECKED JMH

ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting  $^58''$   $\phi$  anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

(10'-0" Maximum Post Spacing)



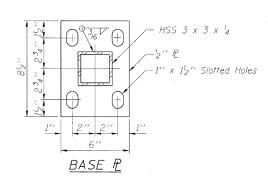


#### Note.

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
Contractor to verify all dimensions in field prior to ordering materials.

#### BILL OF MATERIAL

Item	Unit	Quantity
Bridge Fence Railing (Special)	Sq. Ft.	364



(Sheet 2 of 2)

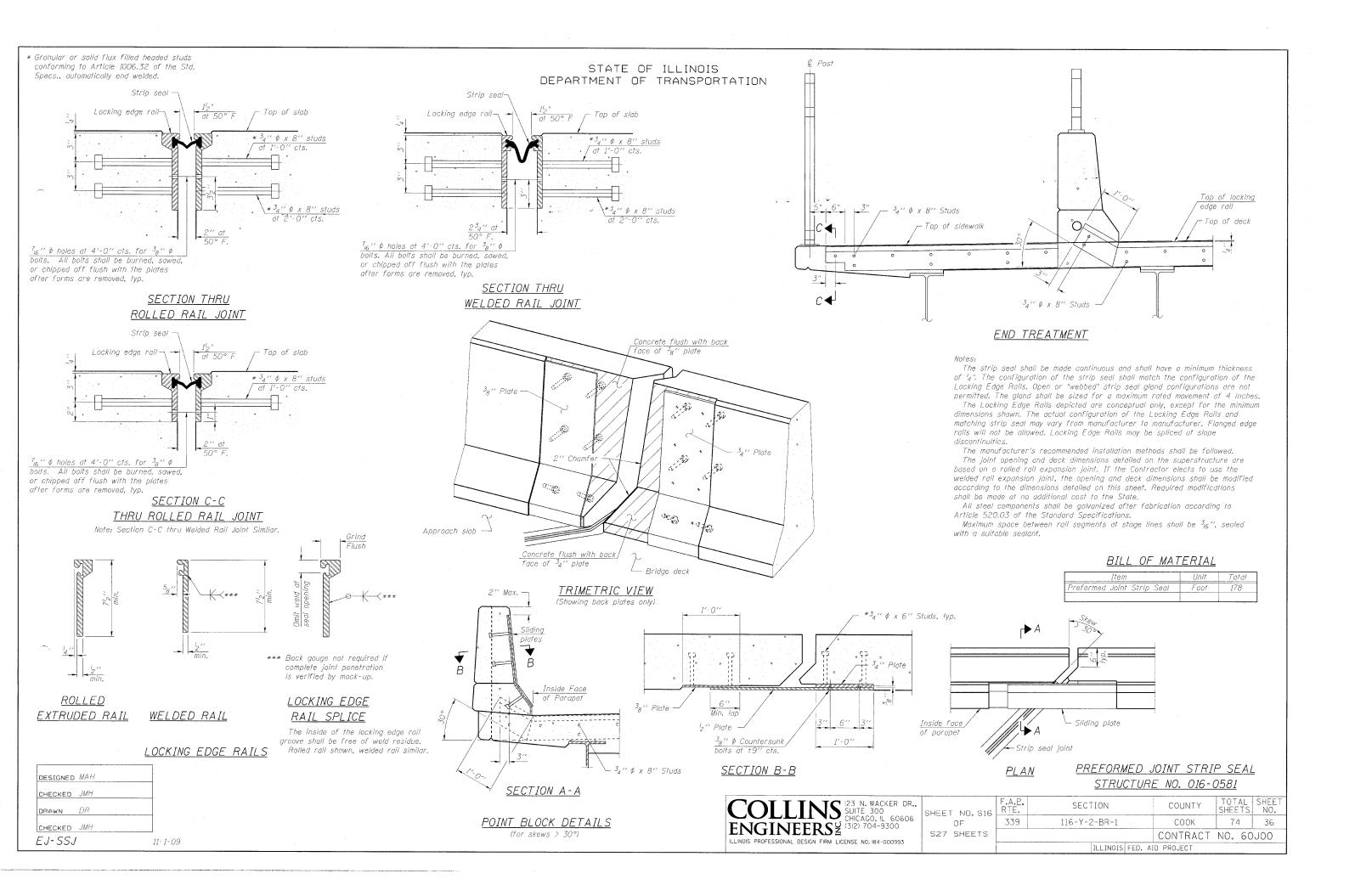
<u>BRIDGE FENCE RAILING (SPECIAL)</u>

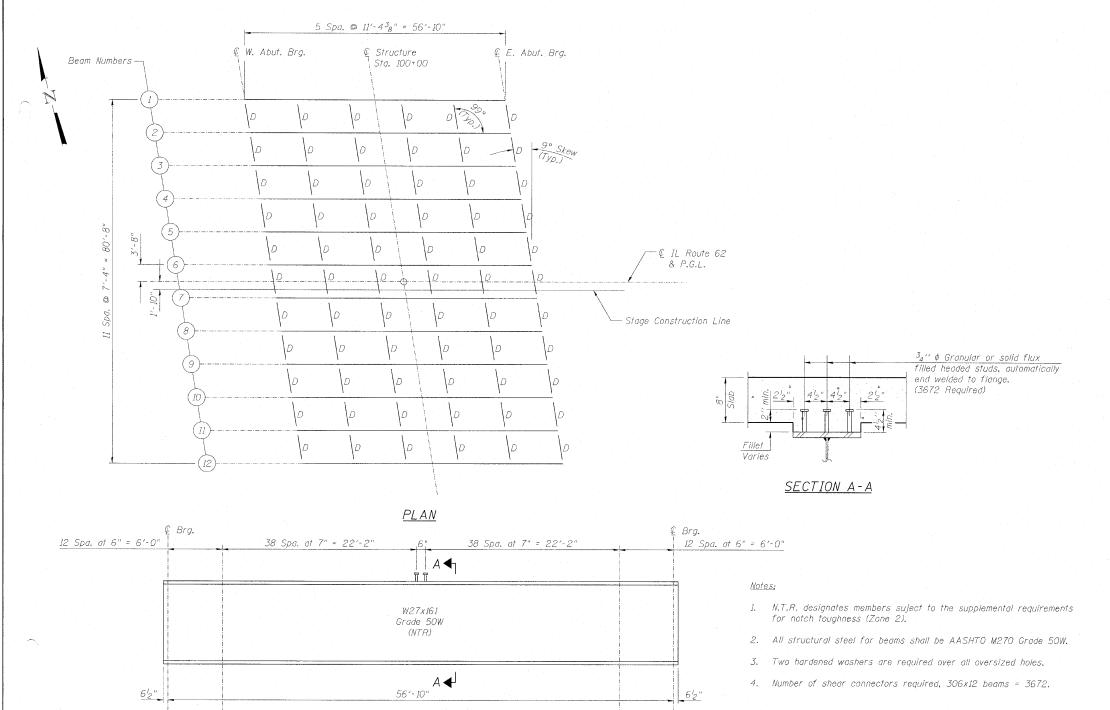
STRUCTURE NO. 016-0581

COLLINS 123 N. WACKER DR., SUITE 300 CHICAGO, IL 60606 ENGINEERS 2 (312) 704-9300	SH
ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000993	`

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6	SHEET NO. S15	111
0	OF	3.
	S27 SHEETS	

315	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
,,,	339	116-Y-2-BR-1	COOK	74	35
S			CONTRACT	NO. 60	J00
ILLINOIS FED. AID PROJECT					





GIRDER ELEVATION

DESIGNED MAH

DRAWN DR

CHECKED JMH

INTERIOR	GIRDER	MOMENT TABLE
		0.5 Span
$I_s$	(in <sup>4</sup> )	6,310
$I_c(n)$	(in4)	15,700
Ic(3n)	(in4)	11,400
Ss	. (in <sup>3</sup> )	. 457
Sc(n)	(in <sup>3</sup> )	642
Sc(3n)	(in 3)	580
DC1	(k/')	0,930
M DCI	('k)	375
DC2	(k/')	0.240
M DC2	('k)	97
DW :	(k/')	0.370
Mow	('k)	149
M4 + IM	('k)	873
Mu (Strength I)	('k)	2,342
Φf Mnc	('k)	3,042
fs DC1	(ksi)	9.8
fs DC2	(ksi)	2.0
fs DW .	(ksi)	. 3.1
fs 1.3(4+IM)	(ksi)	21.2
fs (Service II)	(ksi)	36.1
Vf	(k)	45.9

INTERIOR	GIRDER	REACTION TABLE
		Abutments
Roci	(k)	27.3
Roc2	(k)	6,9
Row	(k)	10.6
Rt + IM	(k)	83,7
RTotal	(k)	128.5

- $I_s$ ,  $S_s$ : Non-composite moment of inertia and section modulus of the steel section used for computing  $f_s$  (Total-Strength I, and Service II) due to non-composite dead loads (in.4 and in.3).
- $I_c(n)$ ,  $S_c(n)$ : Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing  $f_s(Total-Strength\ I,\ and\ Service\ II)$  due to short-term composite live loads (in.4 and in.3).
- $I_c(3n)$ ,  $S_c(3n)$ : Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing  $f_s(7total-Strength\ I,\ and\ Service\ II)$  due to long-term composite (superimposed) dead loads (in.4 and in.3).
  - DC1: Un-factored non-composite dead load (kips/ft.).
  - MDC1: Un-factored moment due to non-composite dead load (kip-ft.).
  - DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
  - MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
  - DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
  - Mpw: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
  - M4 1M: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
- Mu (Strength I): Factored design moment (kip-ft.).
  - 1.25 (MDCI + MDC2) + 1.5 MDW + 1.75 M½ + IM
  - ΦrMnc: Compact non-composite negative moment capacity computed according to Article A6.1.1 (kip-ft.).
- $f_s$  (Service II): Sum of stresses as computed from the moments below (ksi).  $M_{DCI} + M_{DCS} + M_{DW} + 1.3 M_{\odot} + 1.0 M_{\odot}$ 
  - Vr: Maximum factored shear range in composite portion of span computed according to Article 6.10.10.

#### TOP OF BEAM ELEVATIONS - BEFORE DEFLECTION

(For Fabrication use only)

 Location
 Beam 1
 Beam 2
 Beam 3
 Beam 4
 Beam 5
 Beam 6
 Beam 7
 Beam 8
 Beam 9
 Beam 10
 Beam 11
 Beam 12

 € Brg. E. Abut.
 699.793
 699.939
 700.085
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 700.522
 700.521
 700.372
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 700.075
 699.926
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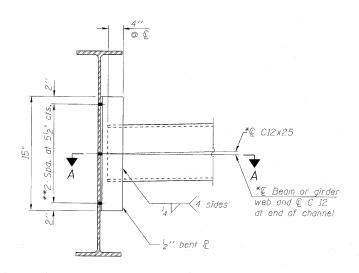
 € Brg. W. Abut.
 699.571
 699.727
 699.883
 700.038
 700.194
 700.349
 700.357
 700.219
 700.080
 699.941
 699.802
 699.663

#### FRAMING PLAN DETAILS STRUCTURE NO. 016-0581

COLLINS 123 N. WACKER DR., SUITE 300 CHICAGO, IL 60606 ENGINEERS (312) 704-9300 ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000993

SHEET NO. S17 OF	F
S27 SHEETS	

317	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
J 1 /	339	116-Y-2-BR-1	COOK	74	37
S			CONTRACT	NO. 60	J00
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#### INTERIOR DIAPHRAGM

Note:

Two hardened washers required for each set of oversized holes.

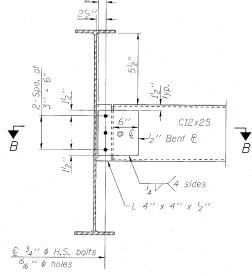
\*Cl2x30 are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section. The alternate, if utilized, shall be provided at no additional cost to the Department.

\*\*34" \$\phi\$ HS bolts, \$\frac{15}{16}\$" \$\phi\$ holes

The interior diaphrams below the stage construction line (between beam numbers 6 and 7) require standard long slotted holes ( $^{13}_{16}$ " x  $^{17}_{8}$ ") in one connection angle. The bolts in the long slots shall be finger tight until the second stage pour is complete. Position slots so bolts start at one end with no concrete load and finish near the opposite end under deck load. All holes shall have appropriate hardened or plate washers.

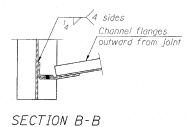


SECTION A-A

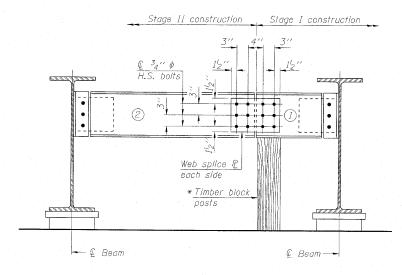


#### END DIAPHRAGM

Note: Two hardened washers required for each set of oversized holes.



\* Cost of Timber Block Posts is included with Structural Steel.



#### END DIAPHRAGM

# END DIAPHRAGM STAGE CONSTRUCTION SEQUENCE

- 1.) Order diaphragm in two sections.
- 2.) Attach section ① of diaphragm to beam
- 3.) Place timber black posts between section ① of diaphragm and abutment bearing section.
- 4.) Attach section ② of diaphragm to both beam—and section ① of diaphragm during stage II construction with splice plates.
- 5.) Remove timber block posts.

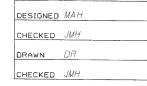
Note

All structural steel for diaphragms, connecting plates/angles shall be AASHTO M270 Grade 50W. All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

#### <u>STEEL DETAILS</u> <u>STRUCTURE NO. 016-0581</u>



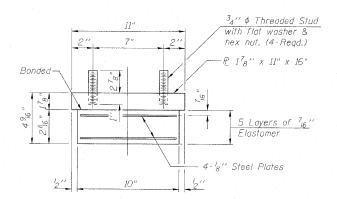
		Y						
HEE	T NO. S18	F.A.P. RTE.	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
	OF	339	116-Y-2	2-BR-1		COOK	74	- 38
S27	SHEETS					CONTRACT	NO. 60	)J00
				ILLINOIS	FED. Al	ID PROJECT		



# $A \blacktriangleleft_1$ — € Brg. <sup>7</sup>8" ♦ Hole in Bott. Flange Bearing Assembly

# Side Retainer, typ. $\mathbb{Q}^{-3}4$ " $\phi$ x 12" Anchor bolts (ASTM F1554 Grade 36) with 2'4" x 2'4" x 516" R washer SECTION A-A

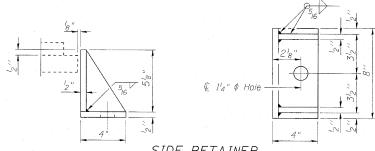
#### TYPE I ELASTOMERIC EXP. BRG. EAST ABUTMENT



#### BEARING ASSEMBLY

ELEVATION AT ABUT.

Note: Shim plates shall not be placed under Bearing Assembly.



Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

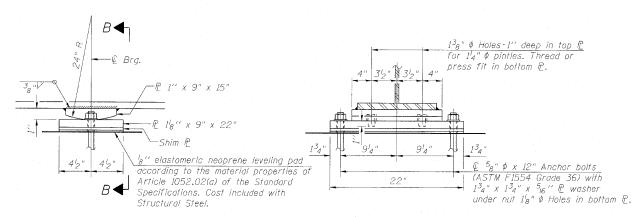
Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

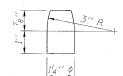
The structural steel plates of the bearing assembly shall conform to the requirements of AASHTO M 270 Grade 50W.



#### ELEVATION

SECTION B-B

#### FIXED BEARING WEST ABUTMENT



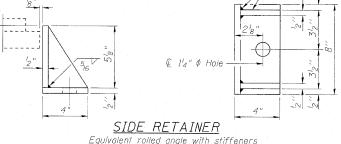
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#### BILL OF MATERIAL

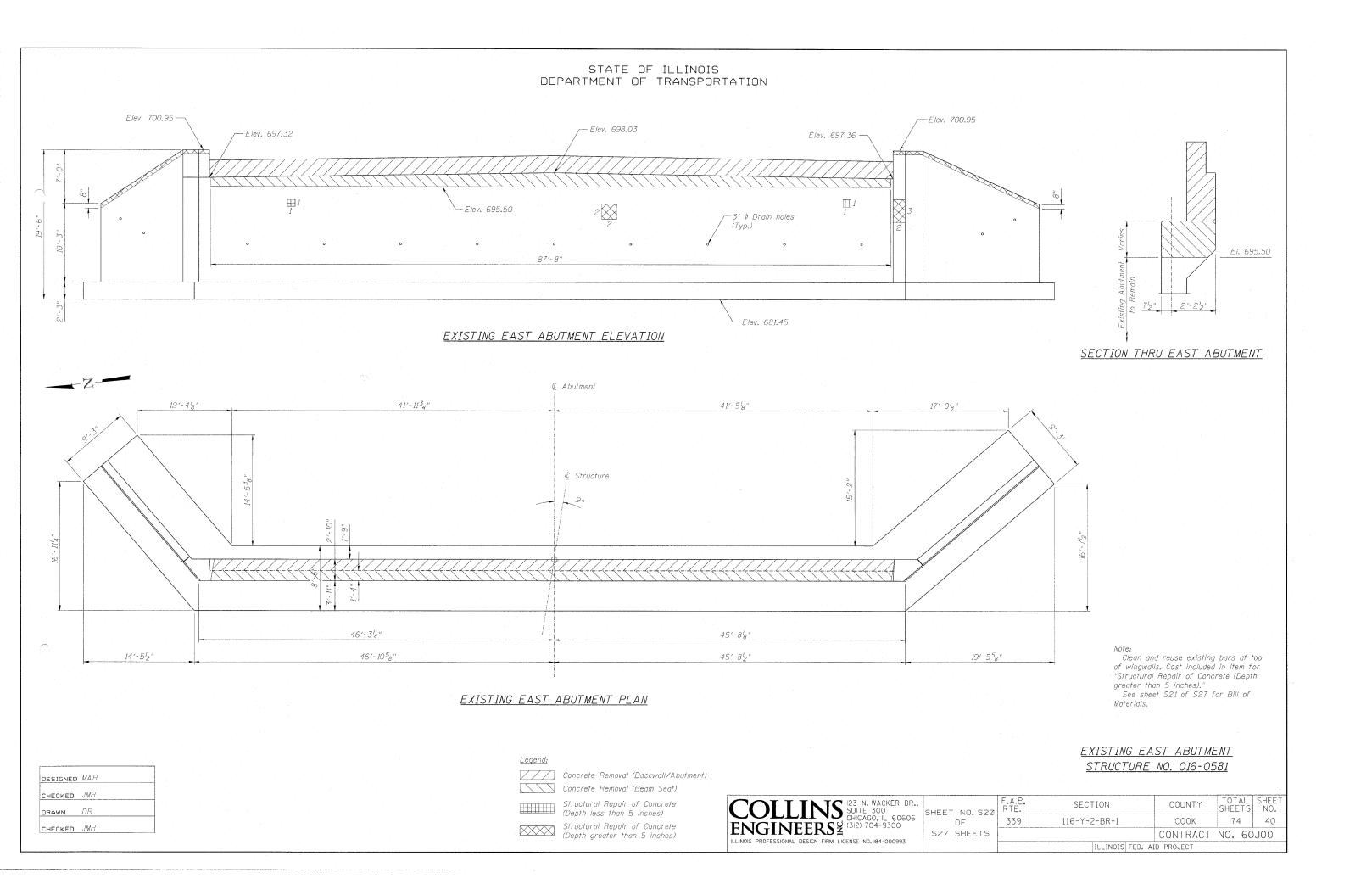
Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	12
Anchor Bolts, 3 <sub>4</sub> " $\phi$	Each	. 24
Anchor Bolts, <sup>5</sup> 8" ¢	Each	24

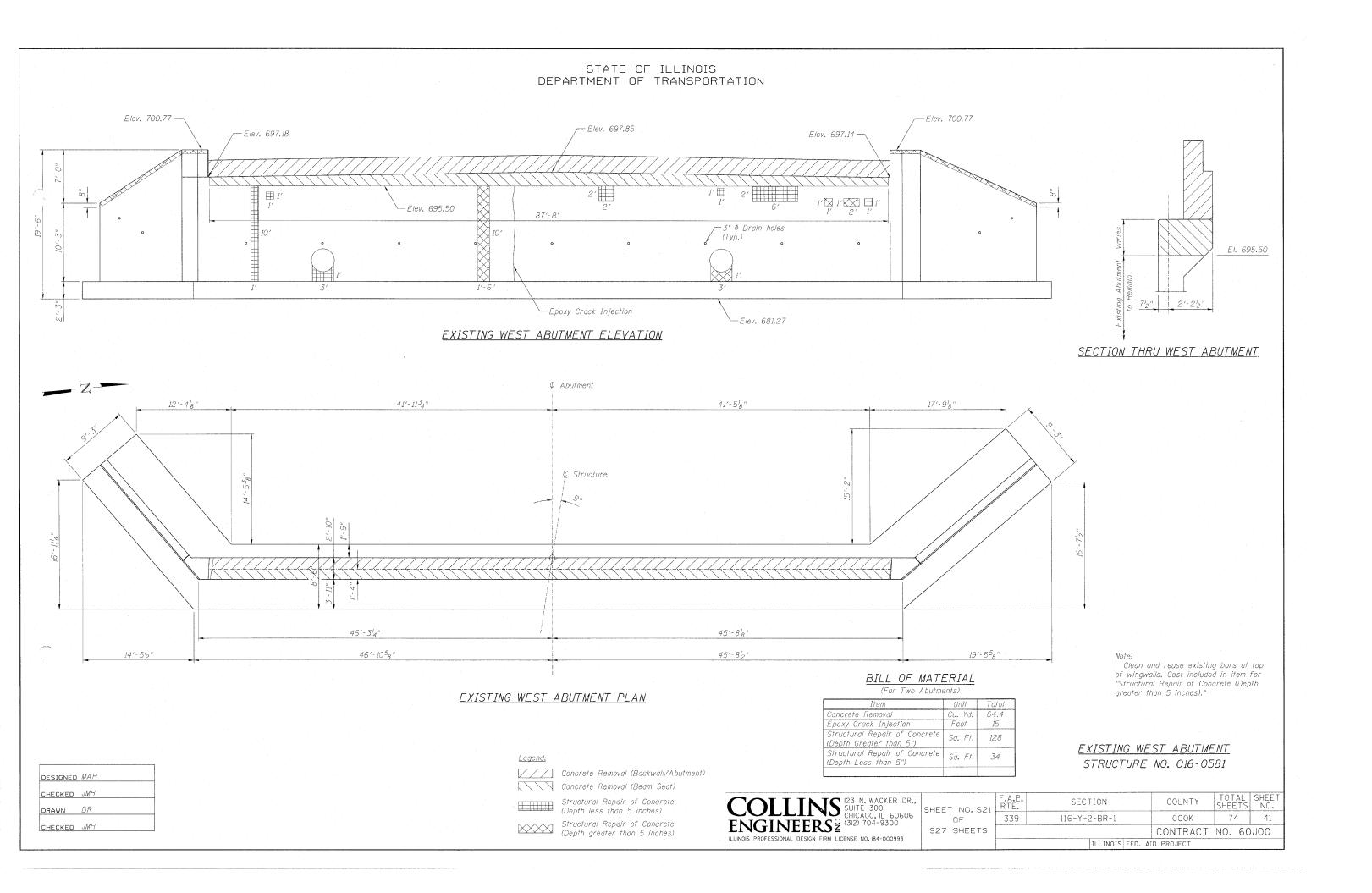
#### BEARING DETAILS STRUCTURE NO. 016-0581

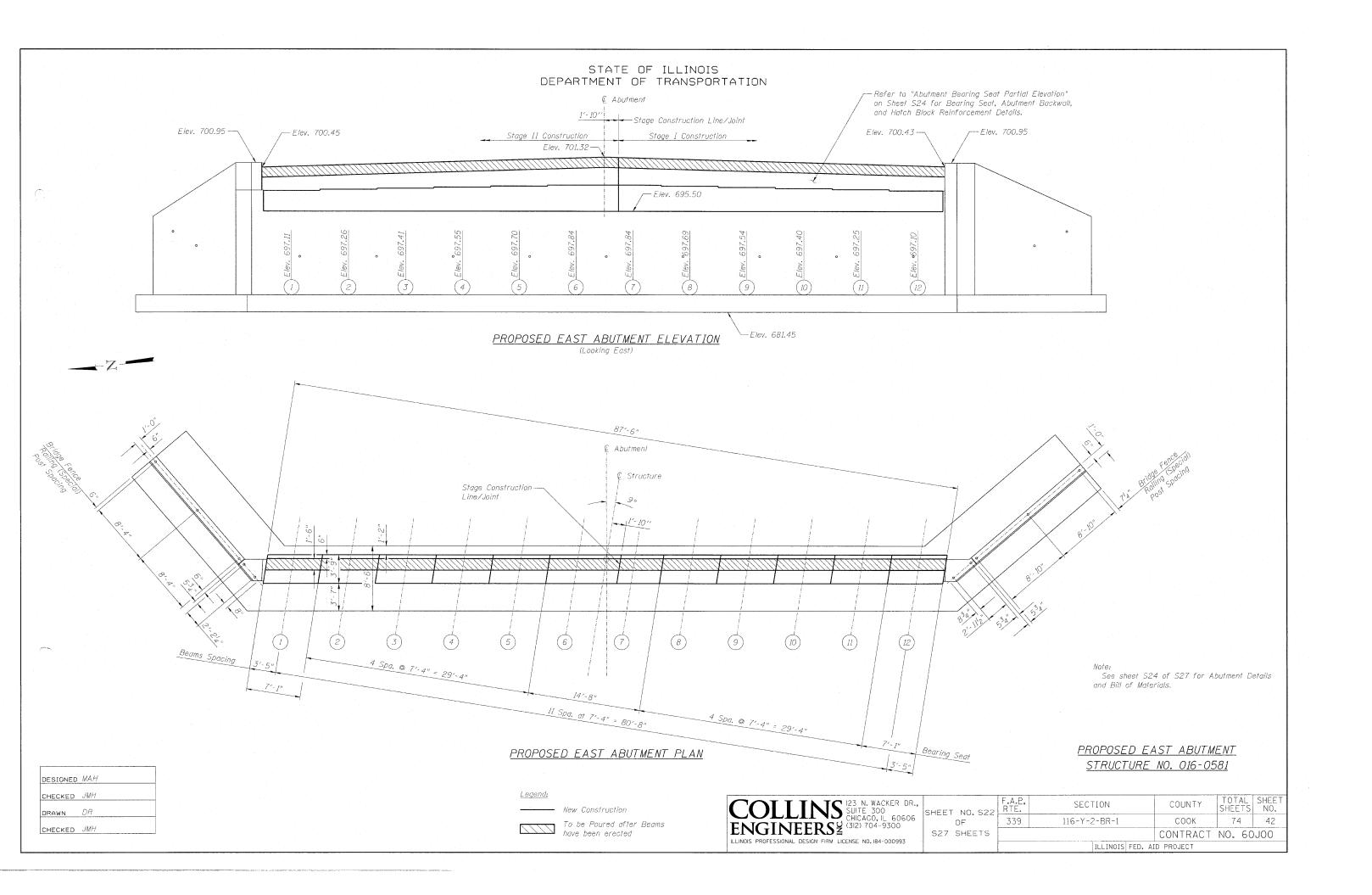
TOTAL SHEET SHEETS NO. JITE 300 SECTION COUNTY SHEET NO. S19 339 116-Y-2-BR-1 74 COOK 39 OF S27 SHEETS CONTRACT NO. 60J00 LINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000993 ILLINOIS FED. AID PROJECT

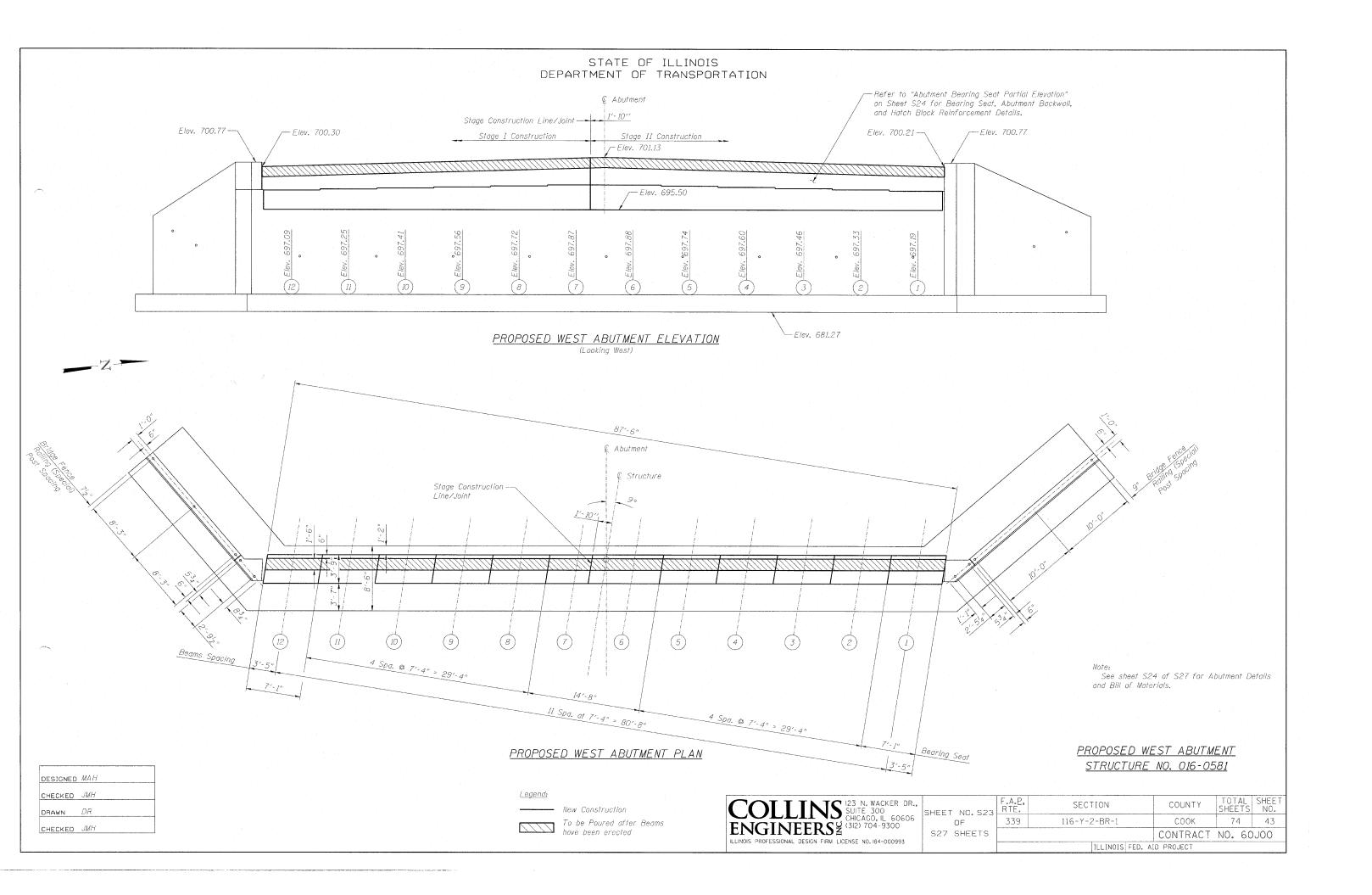


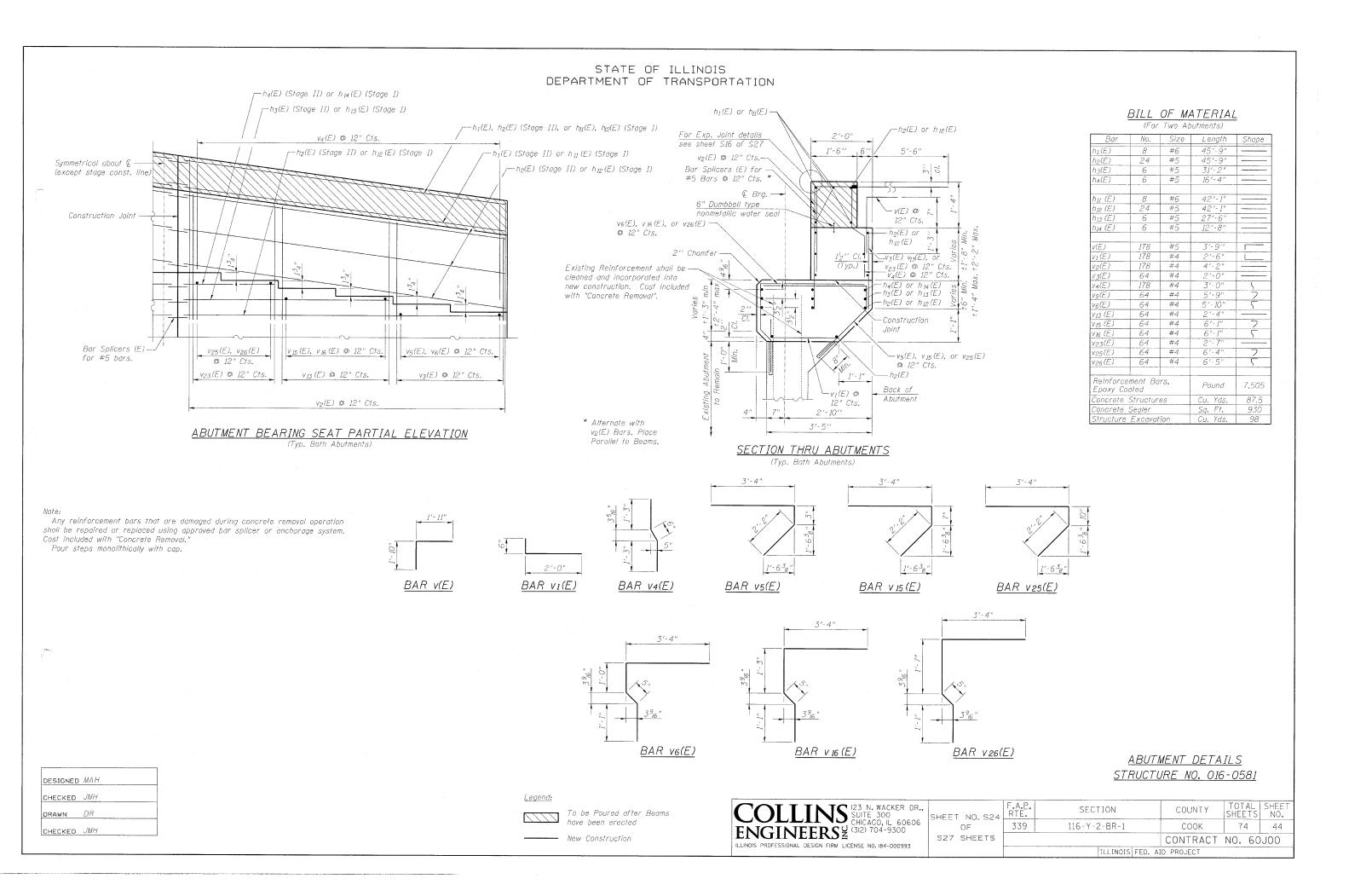
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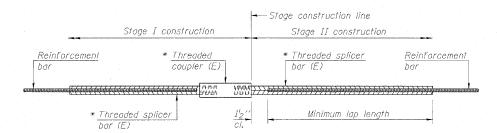












#### STANDARD BAR SPLICER ASSEMBLY

Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4		
3, 4	1'-5''	1'-11''	2'-1''	2'-4''		
5	1'-9''	2'-5"	2'-7"	2'-11''		
6	2'-1''	2'-11''	3'-1"	3'-6"		
. 7	2'-9"	3'-10''	4'-2''	4'-8''		
8	3'-8''	5'-1''	5′-5′′	6'-2''		
9	4'-7''	6'-5"	. 6'-10''	7'-9''		

Table 1: Black bar, 0.8 Class C

Table 2: Black bar, Top bar lap, 0.8 Class C

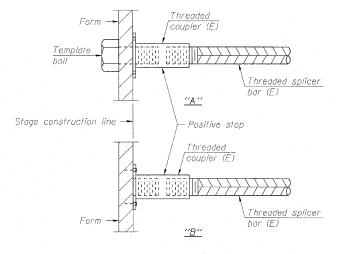
Table 3: Epoxy bar, 0.8 Class C

Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Threaded splicer bar length = min, lap length +  $l_2'''$  + thread length

\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

#### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

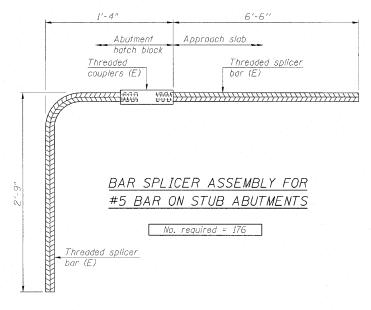


#### INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.

Location	Bar size	No. assemblies required	Table for minimum lap length
Superstructure	#5	213	Table 3
Approach	#4	50	Table 3
Approach	#5	92	Table 3
Approach Footing	#5	80	Table 3
E. & W. Abutments	#5	36	Table 3
E. & W. Abutments	#6	8	Table 3



#### NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See special provision for Mechanical Splicers.

See approved list of bar splicer assemblies and mechanical splicers for alternatives

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO. 016-0581

COLLINS 123 N. WACKER DR., SLITE 300 CHICAGO, IL 60606 ENGINEERS (312) 704-9300 ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000993

HEET NO. S25	F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
OF	339	116-Y-2-BR-1		COOK	74	45
S27 SHEETS				CONTRACT	NO. 60	J00
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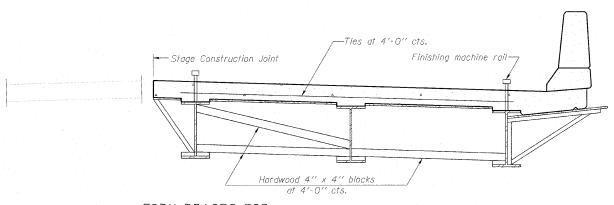
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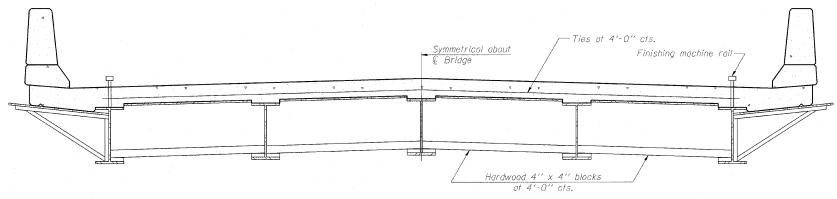
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FORM BRACES FOR STAGE CONSTRUCTION



FORM BRACES FOR STANDARD CONSTRUCTION

DESIGNED MAH

CHECKED JMH

DRAWN DR CHECKED JMH SB-1

11-1-09

CANTILEVER FORMING BRACKETS FOR SUPERSTRUCTURES WITH W27 BEAMS AND SMALLER STRUCTURE NO. 016-0581

COLLINS 123 N. WACKER DR., SUITE 300 CHICAGO, IL 60606 ENGINEERS 2 (312) 704-9300 ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000993

SHEET NO. \$26	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHE
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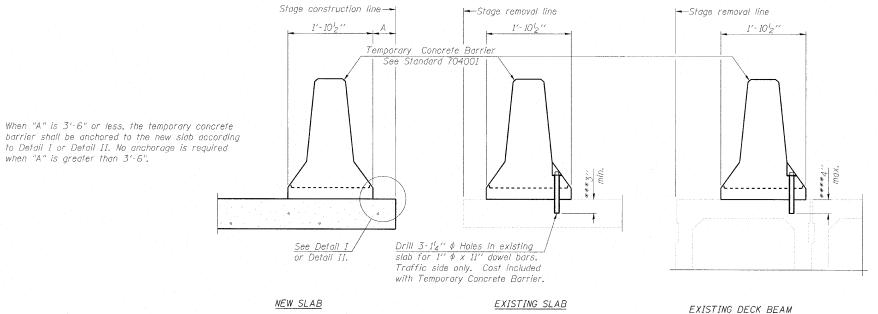
When cantilever forming brackets are used, the work shall be done according to Article 503.06(b) of the Standard Specifications, except as modified below and in the details shown on this sheet.

The finishing machine rails shall be placed on the top flange of the exterior beams.

The beams or girders, supporting cantilever forming brackets, shall be tied together at 4 foot intervals.

For Standard construction, or Stage Construction the Hardwood bracing materials shall be placed as shown between webs of beams in each bay.

exterior beams.



#### NOTES

Detail I - With Bar Splicer or Couplers:

Connect one (1) I''x7''x10'' steel P to the
top layer of couplers with 2-5g'' \$\phi\$ bolts
screwed to coupler at approximate \$\mathbb{\epsilon}\$ of
each barrier panel.

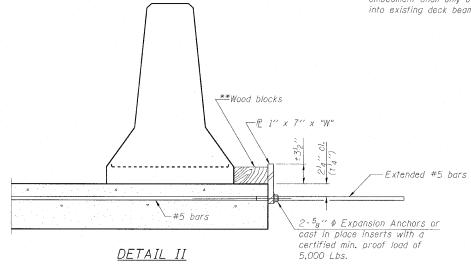
Detail II - With Extended Reinforcement Bars:
 Connect one (1) I''x7''x I0'' steel  $\mathbb R$  to the concrete slab or concrete wearing surface with  $2^{-5}8''$   $\phi$  Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate  $\mathbb Q$  of each barrier panel.

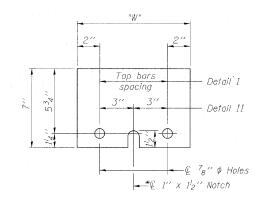
Cost of anchorage is included with Temporary Concrete Barrier.
The I'' x 7'' x 10'' plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

#### SECTIONS THRU SLAB OR DECK BEAM

- \*\*\* Dimension shown is minimum required embedment into concrete.

  If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.
- \*\*\*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.





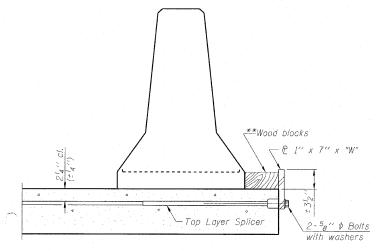
STEEL RETAINER P 1" x 7" x 10"

\* Required only with Detail II

TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
STRUCTURE NO. 016-0581

COLLINS 123 N. WACKER DR., SUITE 300 CHICAGO, IL 60606 ENGINEERS 2 (312) 704-9300 SILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000993

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HEET NO. S27	F.A.P. RTE.	SECTION	COUNTY TOTAL SHEET		SHEET NO.
OF	339	116-Y-2-BR-1	COOK	74	47
S27 SHEETS			CONTRACT	NO. 60	)J00
		ILLINOIS FED. A	ID PROJECT		



DETAIL I

11-1-09

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R-27

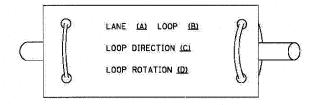
\*\* Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

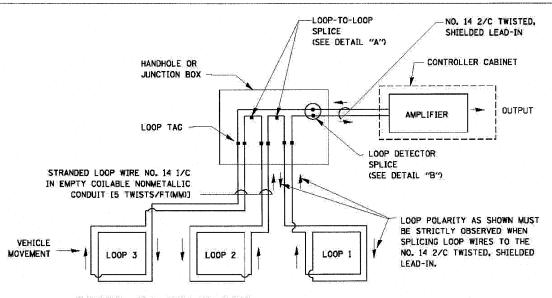
#### LOOP DETECTOR NOTES

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

#### LOOP LEAD-IN CABLE TAG

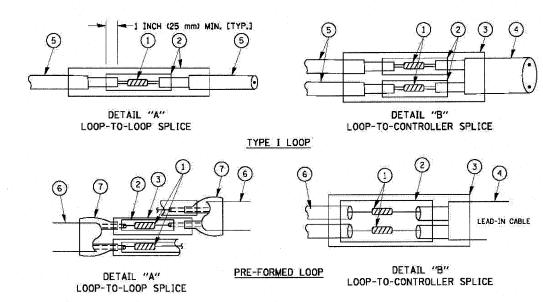


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



#### DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



#### LOOP DETECTOR SPLICE

- $\hfill \Box$  western union splice soldered with rosin core flux. All exposed surfaces of the solder shall be smooth.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- (6) PRE-FORMED LOOP
- TL POLYOLEFIN 2 CONDUCTOR
  BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

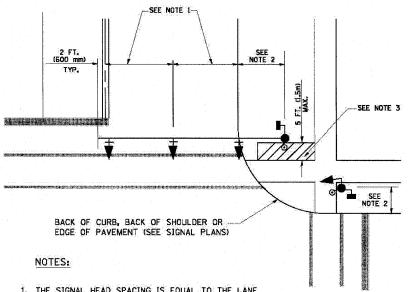
	DISTRICT ONE	F.A.P RTE.	SECTION	COUNTY	SHEETS	SHEET NO.
	STANDARD TRAFFIC SIGNAL DESIGN DETAILS	339	116-Y-2-BR-1	COOK	74	48
ATION				CONTRAC	Г NO. 6	0000

FILE NAME USER NAME - \$USERS DESIGNED PKG REVISED \$FILELS DRAWN MAA. EA REVISED PLOT SCALE : \$5CALE\$ CHECKED PKG REVISED REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTA** 

#### 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.



- THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 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 PUSH BUTTON POST SEE TABLE 1 TABLE 1 SEE NOTE 1

PEDESTRIAN SIGNAL POST

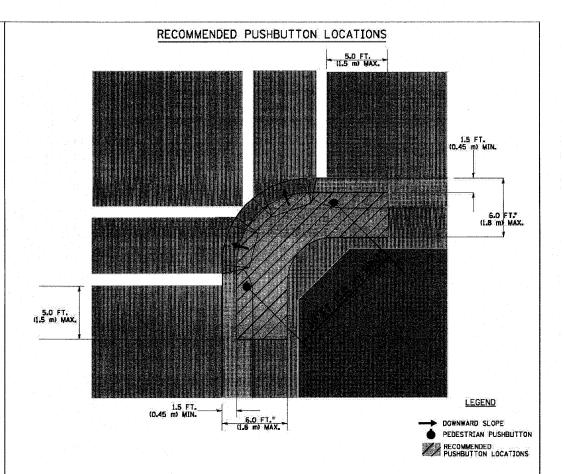
#### NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.

SIDEWALK

BACK OF CURB, BACK OF SHOULDER OR EDGE OF PAVEMENT (SEE SIGNAL PLANS)

- 2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING WATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
- 3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCO AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."



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

#### NOTES:

- I. 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 WAXIMUM 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.

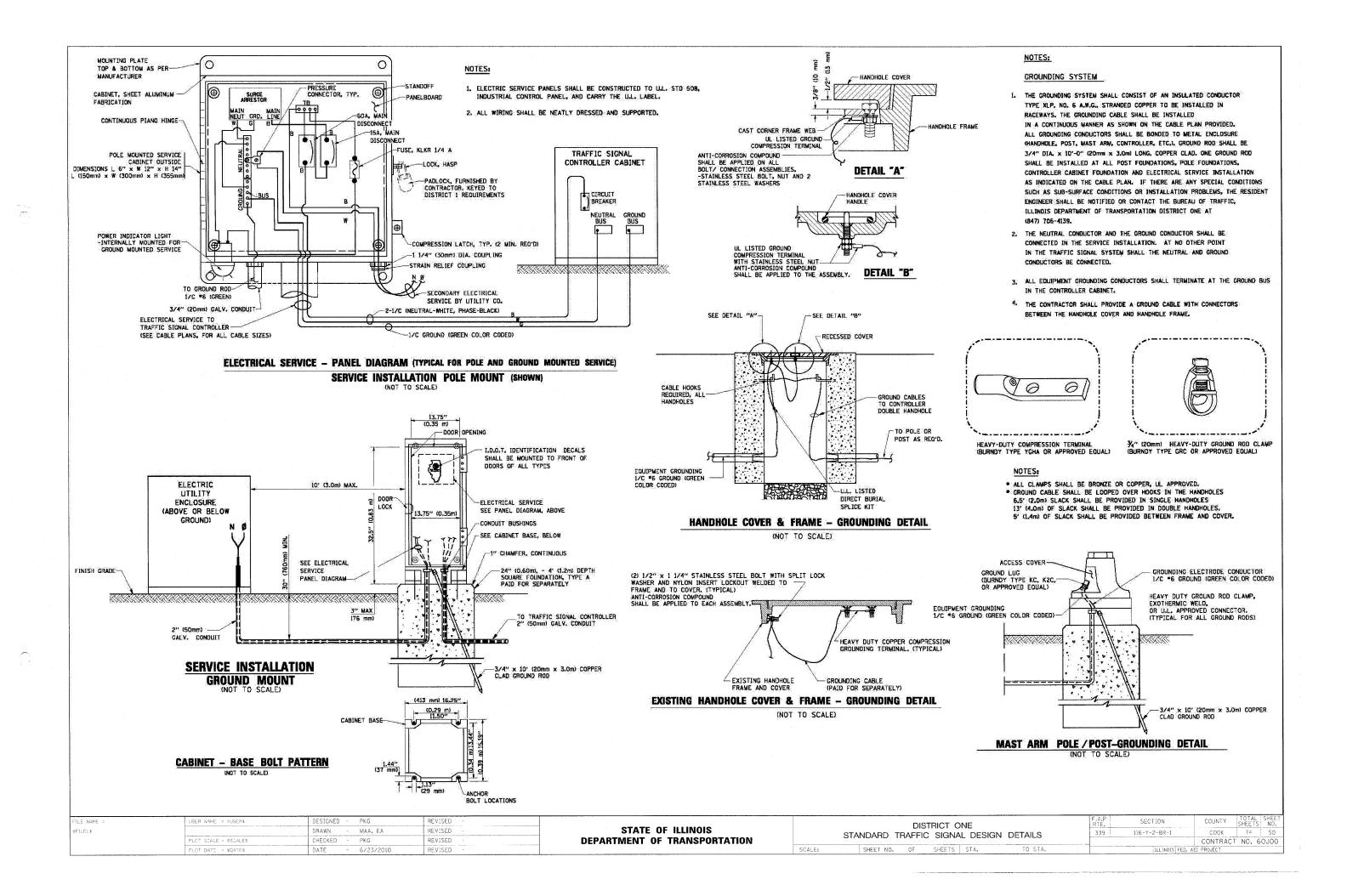
#### TRAFFIC SIGNAL EQUIPMENT OFFSET

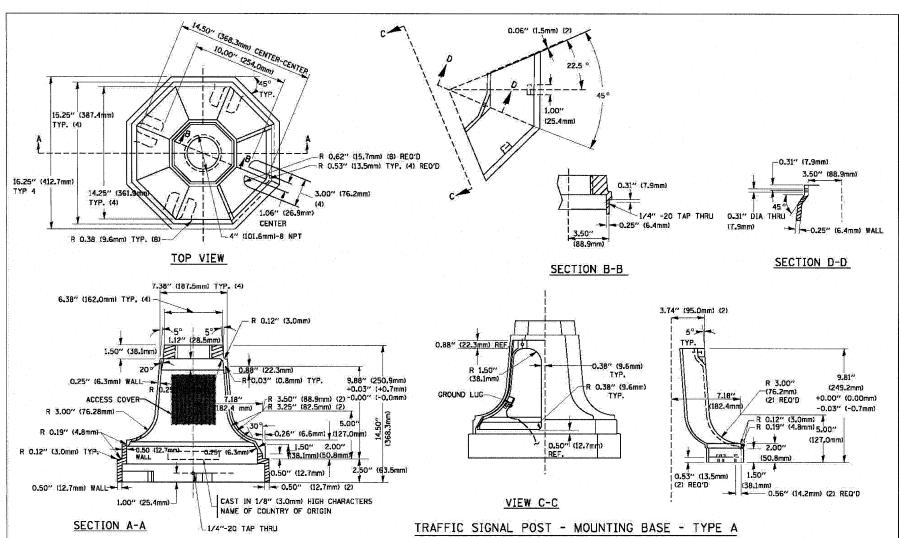
	THAT TO STOTAL EQUIT WENT	
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1,8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (O.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1,2m)	SHOULDER WIDTH + 2 FT (O.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1,2m)	SHOULDER WIDTH + 2 FT (O.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (O.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

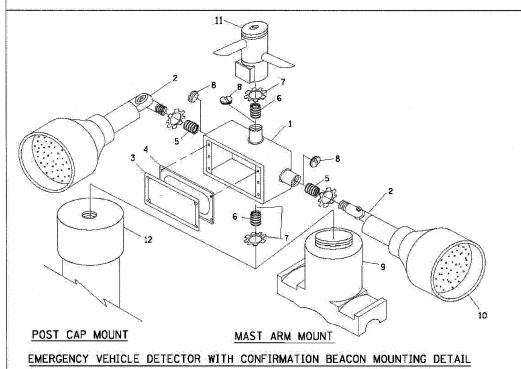
#### NOTES:

- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
- 4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

FILE NAME =	USER NAME = \$USER\$	DESIGNED - PKG	REVISED ~		DISTRICT ONE	F.A.P SECTION	COUNTY TOTAL SHEET NO.
SFILELS		DRAWN - MAA, EA	REVISED -	STATE OF ILLINOIS	STANDARD TRAFFIC SIGNAL DESIGN DETAILS	339 116-Y-2-BR-1	COOK 74 49
	PLOT SCALE = #SCALE#	CHECKED - PKG	REVISED	DEPARTMENT OF TRANSPORTATION			CONTRACT NO. 60J00
	PLOT DATE = #DATE#	DATE - 6/23/2010	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED.	AID PROJECT







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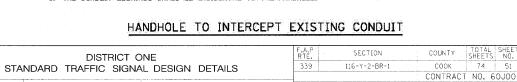
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ITEM	NO.	IDENTIFICATION
1	OUTLE"	BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP I	HOLDER AND COVER
3	OUTLE	T BOX COVER
. 4	RUBBER	R COVER GASKET
- 5	REDUCI	ING BUSHING
6	<b>1</b> 4''(19	mm) CLOSE NIPPLE
7	₹4"(19	mm) LOCKNUT
8	¥4"(19	mm) HOLE PLUG
9	SADDLE	BRACKET - GALV.
10	6 WAT	T PAR 3B LED FLOOD LAMP
11	DETECT	TOR UNIT
12	POST I	CAP [18 FT. (5.4 m) POST MIN.]

#### NOTES:

- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS "2 AND "11 SHALL BE ALUMINUM OR GALVANIZED
- 2. ITEM \*1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
  ITEM \*2- MULBERRY CON-0-SHADE LAMP SHIELD OR EQUIVALENT
  ITEM \*9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM 49 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 1/4"(19 mm) HOLLE 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



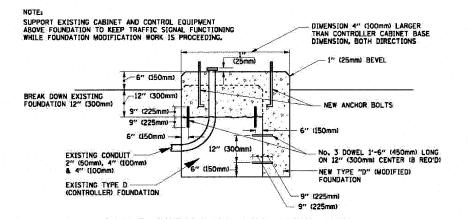
# RO.50" (12mm) RO.50" (12mm) RO.50" (12mm) RO.50" RILBI" (300mm) RO.25" (6mm) O.25" (6mm) O.25" (6mm) O.25" (6mm) O.25" (6mm) O.25" (6mm) O.25" O.25" ATM A36 STEEL - ASTM A36 STEEL - ASTM A-123 HOT DIPPED GALVANIZED

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

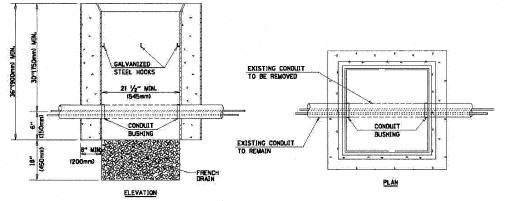
#### SHROUD

#### NOTES

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



#### MODIFY EXISTING TYPE "D" FOUNDATION

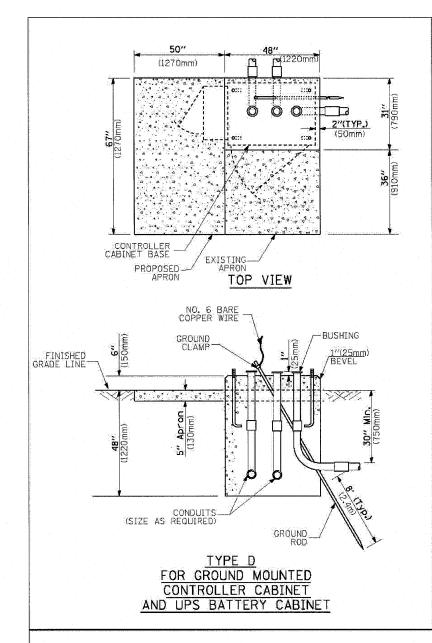


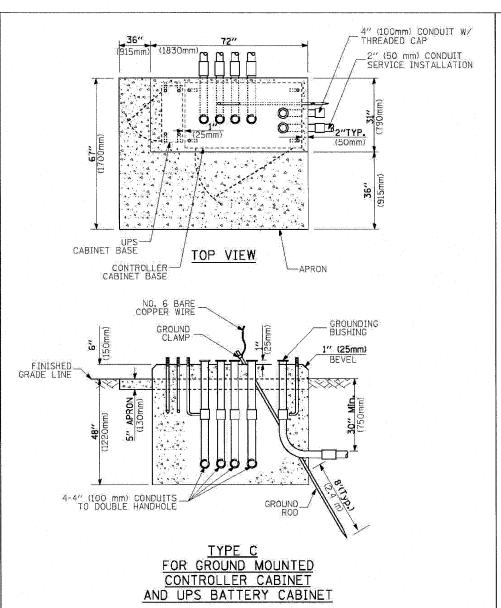
#### NOTES:

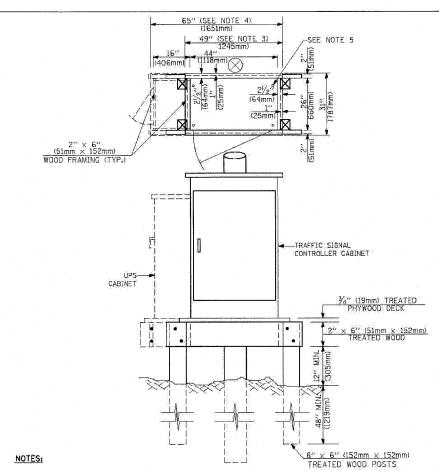
1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.

SHEETS STA.

2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.







- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm).
   ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm).
   ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- 6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

# TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE ( MAST ARM MOUNTED SIGNAL HEAD)		
(L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

#### VERTICAL CABLE LENGTH

DEPTH	OF	FOUNDATION

FOUNDATION

TYPE A - Signal Post

GROUND MOUNT, TYPE A - SQUARE

TYPE C - CONTROLLER W/ UPS TYPE D - CONTROLLER SERVICE INSTALLATION,

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

#### NOTES:

DEPTH

4'-0" (1.2m) 4'-0" (1.2m) 4'-0" (1.2m)

4'~0" (1.2m)

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

FIL	E NAME ≈	USER NAME = SUSERS	DESIGNED - PKG	REVISED -		DISTRICT ONE	F.A.P SECTION COUN	NTY TOTAL SHEET NO.
sF.	ILEL\$		DRAWN - MAA, EA	REVISED -	STATE OF ILLINOIS	STANDARD TRAFFIC SIGNAL DESIGN DETAILS	339 116-Y-2-BR-1 COO	JOK 74 52
		PLOT SCALE = \$SCALE\$	CHECKED - PKG	REVISED ~	DEPARTMENT OF TRANSPORTATION	STANDARD THATTIC SIGNAL DESIGN DETAILS	CONT	TRACT NO. 60J00
		PLOT DATE = #DATE#	DATE 6/23/2010	REVISED		SCALE: SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJEC	TS

# TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM R	EMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R			EMERGENCY VEHICLE LIGHT DETECTOR	$^{R}\!$	$\propto$	•	ELECTRICAL CABLE IN CONDUIT, TRACER,			1
AILROAD CONTROL CABINET		R> <r< td=""><td>₽</td><td>CONFIRMATION BEACON</td><td>R<sub>o-()</sub></td><td>0(]</td><td>•</td><td>NO. 14 1/C. UNLESS NOTED OTHERWISE</td><td></td><td></td><td></td></r<>	₽	CONFIRMATION BEACON	R <sub>o-()</sub>	0(]	•	NO. 14 1/C. UNLESS NOTED OTHERWISE			
OMMUNICATIONS CABINET	R CC	ECC	СС	HANDHOLE	R			COAXIAL CABLE		Ø-	
IASTER CONTROLLER		EMC	MC	HEAVY DUTY HANDHOLD	R	H	Н	VENDOR CABLE FOR CAMERA		—(V)—	
IASTER MASTER CONTROLLER		EMMC	MMC	DOUBLE HANDHOLE	R			COPPER INTERCONNECT CABLE,			
ININTERRUPTIBLE POWER SUPPLY	R UPS	EUPS	UP\$	JUNCTION BOX	R		•	NO. 18 3 PAIR TWISTED, SHIELDED		6	6-6
SERVICE INSTALLATION, P) POLE OR (G) GROUND MOUNT	<b></b>	-□-P	- <b>■</b> -P	GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)		WARTER Y LOTTERFOR THE TOTAL		FIBER OPTIC CABLE NO. 62.5/125, MM12F		<del>-</del> 125-	
TELEPHONE CONNECTION P) POLE OF (G) GOUND MOUNT	R	P	P T	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		- <u>(24</u> F)-	-245-
STEEL MAST ARM ASSEMBLY AND POLE	R	. 0	<b>O</b>	COMMON TRENCH			CT.	FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE		——————————————————————————————————————	
LUMINUM MAST ARM ASSEMBLY AND POLE	R	Company of the second s		COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC	NOTED ON PLANS			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	<b>R</b> ○ ○ ○ ○	0-\(\overline{\pi}\).	• <del>**</del> • ;	SYSTEMITEM		. 1	IP	GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			C - C
TEEL COMBINATION MAST ARM	R			INTERSECTION ITEM	R .			CONTROLLER CABINET AND	RCF		
SSEMBLY AND POLE WITH PTZ CAMERA	PTZ	PTZ	PTZ	REMOVE ITEM	RL			FOUNDATION TO BE REMOVE			
SIGNAL POST	R O <sub>1</sub>	. 0	•	ABANDON ITEM	. Δ	751		STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVE	RMF O		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	R ⊗	$\otimes$		12" (300mm) TRAFFIC SIGNAL SECTION			R	ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVE	RMF		
UY WIRE	R	> > ·	>	12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				STEEL COMBINATION MAST ARM ASSEMBLY	3ME		
GNAL HEAD		→ · · · · · · · · · · · · · · · · · · ·	<b>→</b>			R	R	AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVE	00		
IGNAL HEAD CONSTRUCTION STAGES IUMBERS INDICATE THE CONSTRUCTION STAGE)			<b>-</b>	SIGNAL FACE			Y	SIGNAL POST AND FOUNDATION TO BE REMOVE	RMF		
IGNAL HEAD WITH BACKPLATE	R +D	+	+▶			(4 Y) (4 C)	<b>4</b> Y <b>4</b> G	INTERSECTION & SAMPLING	0	[IS]	IS
IGNAL HEAD OPTICALLY PROGRAMMED	R > "P"	⇒ <b>"P"</b>	→ "P"					(SYSTEM) DETECTOR			
LASHER INSTALLATION S DENOTES SOLAR POWER)	O⊳ "F"	○⊳"F"	• <b>→</b> "F"	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD			R Y	SAMPLING SYSTEM DETECTOR		[5]	S
EDESTRIAN SIGNAL HEAD	R	-0	1				<b>←</b> Y.	EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DE	FECTOR	P	
PEDESTRIAN PUSHBUTTON DETECTOR	R ®	(i)	<b>©</b>				<b>4</b> G "p"	EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	FECTOR	PP	
CCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R	⊚ APS	⊚ APS	12" (300mm) PEDESTRIAN SIGNAL HEAD		Found		PREFORMED INTERSECTION AND SAMPLING	IECTOR		
LLUMINATED SIGN NO LEFT TURN"	R (D)			WALK/DON'T WALK SYMBOL		DW W		(SYSTEM) DETECTOR		PIS	PIS
LLUMINATED SIGN	R (D)			12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR		[PS]	PS
NO RIGHT TURN" DETECTOR LOOP, TYPE I	LSteet 2	. [		12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			*	RAILRO	AD SYMBO	)LS	
REFORMED DETECTOR LOOP		P	P	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL			<b>₽</b> C				
ICROWAVE VEHICLE SENSOR	R M	MI	M	SYMBOL, WITH COUNTDOWN TIMER	R					182.134	
IDEO DETECTION CAMERA	<b>R</b> [V]∫	(V)	<b>V</b> ■	RADIO INTERCONNECT	R R	<del>                                      </del>		RAILROAD CONTROL CABINET		<u>P-3</u>	R
IDEO DETECTION ZONE	_			RADIO REPEATER	RERR	ERR	RR	RAILROAD CANTILEVER MAST ARM		X	XeX
AN, TILT, ZOOM CAMERA	R FIZ	PTZ)	₽TZ¶	DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE,				FLASHING SIGNAL		X <del>o</del> X	X⊕X
/IRELESS DETECTOR SENSOR	R	(W)	w	ALL DETECTOR LOOP CABLE TO BE SHIELDED		(5)		CROSSING GATE		X <del>0</del> X	<b>X</b> : <b>X</b>
VIRELESS ACCESS POINT	R			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)			- 11	CROSSBUCK		75	
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#### NOTES FOR TEMPORARY TRAFFIC SIGNALS

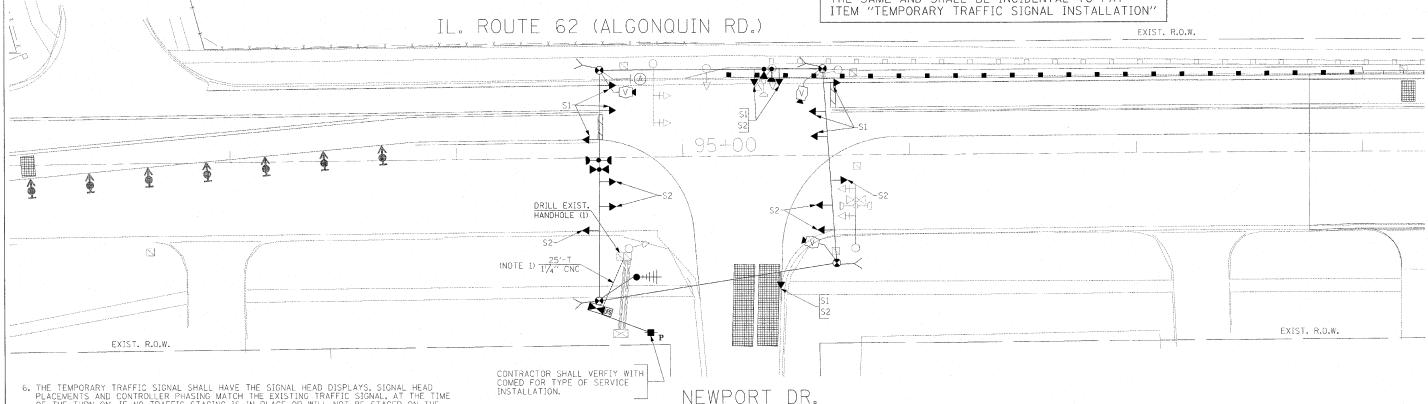
- 1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- 2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS, ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- 3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER, HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER, PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS, PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER, COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION, THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS, EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD SHALL
- 4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- 5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.

#### CONSTRUCTION NOTES:

- NOTE 1: INSTALL TEMPORARY INTERCONNECT CABLE NO. 62,5/125 12F BETWEEN THE EXISTING CONTROLLER CABINET AND THE TEMPORARY CONTROLLER. CABINET, THIS WORK IS INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
- NOTE 2: THE SIGNAL HEAD PLACEMENT FOR ALL APPROACHES OF THE INTERSECTION IS FOR CONSTRUCTION STAGE 1 AND CONSTRUCTION STAGE 2 AND ARE SHOWN WITH S1 AND S2, NEXT TO THE SIGNAL HEAD.
- NOTE 3: THE VIDEO DECTECTION ZONES SHOWN ON THE PLAN FOR ALL APPROACHES OF THE INTERSECTION ARE FOR CONSTRUCTION STAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE. THIS WORK IS INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

THE EXISTING TRAFFIC SIGNAL CONTROLLER SHALL

BE DISABLED AND TRAFFIC SIGNAL HEADS SHALL BE BAGGED DURING THE TIME WHEN TEMPORARY TRAFFIC SIGNAL INSTALLATION IS IN OPERATION. NO EXTRA COMPENSATION SHALL BE ALLOWED FOR THE SAME AND SHALL BE INCIDENTAL TO PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION"



- 6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
- 7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
- 8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER, REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL
- 9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
- 10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

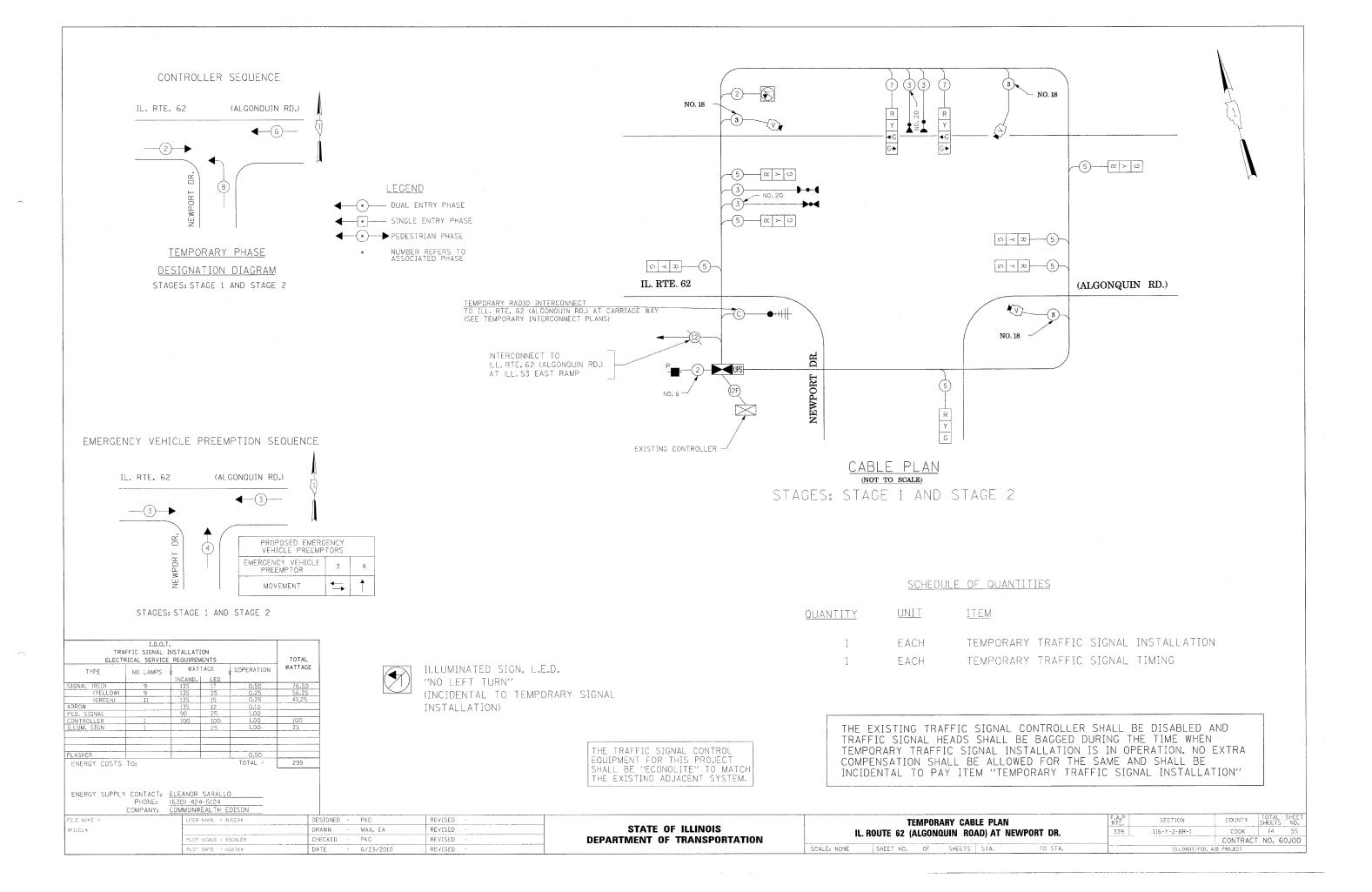


ILLUMINATED SIGN, L.E.D. "NO LEFT TURN" (INCIDENTAL TO TEMPORARY SIGNAL INSTALLATION)

THIS SIGN SHALL BE RELOCATED IF NECESSARY, AS DIRECTED BY FIELD ENGINEER.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM,

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		PLDT SCALE = \$SCALE\$	CHECKED - PKG	REVISED -	DEPARTMENT OF TRANSPORTATION	IL. D	OUIL 02 (AI	LGUIVAC	JIN NUAD/AI	INCOME DIL			CONTRAC	CT NO. 60J00
		PLOT DATE = \$DATE\$	DATE - 6/23/2010	REVISED -		SCALE: 1"=20"	SHEET NO.	OF	SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT	



#### NOTES FOR TEMPORARY TRAFFIC SIGNALS

- 1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
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CONSTRUCTION NOTES:

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THE EXISTING CONTROLLER CABINET AND THE TEMPORARY CONTROLLER
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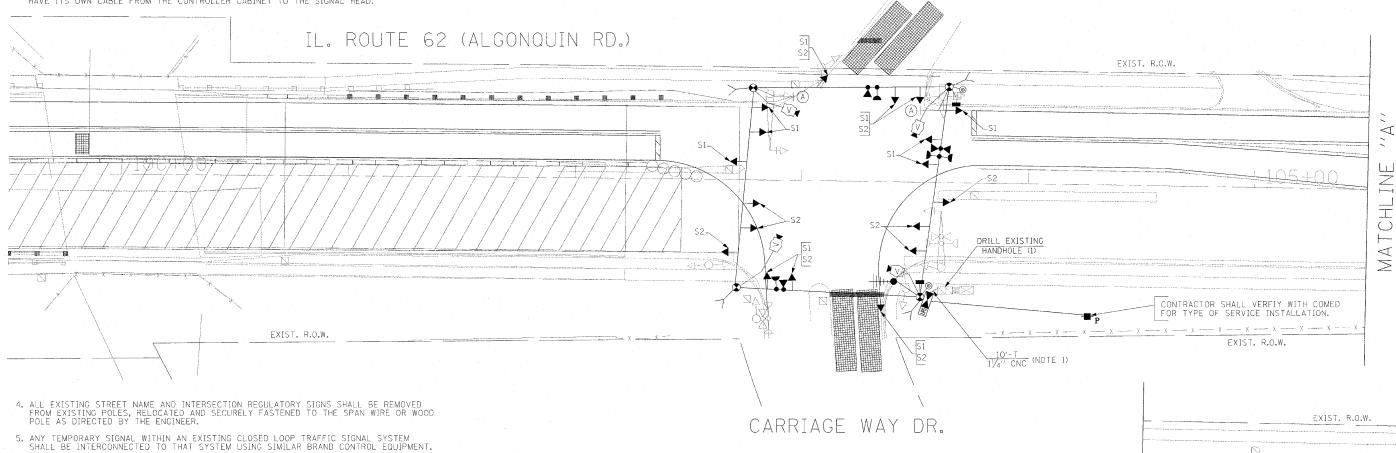
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OF THE INTERSECTION ARE FOR CONSTRUCTION STAGE 1 AND SHALL BE REDEFINED

FOR EACH CONSTRUCTION STAGE, THIS WORK IS INCIDENTAL TO THE PAY ITEM

"TEMPORARY TRAFFIC SIGNAL INSTALLATION",





ILLUMINATED SIGN, L.E.D.

"NO LEFT TURN"

(INCIDENTAL TO TEMPORARY SIGNAL INSTALLATION)

THIS SIGN SHALL BE RELOCATED IF NECESSARY, AS DIRECTED BY FIELD ENGINEER.

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9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.

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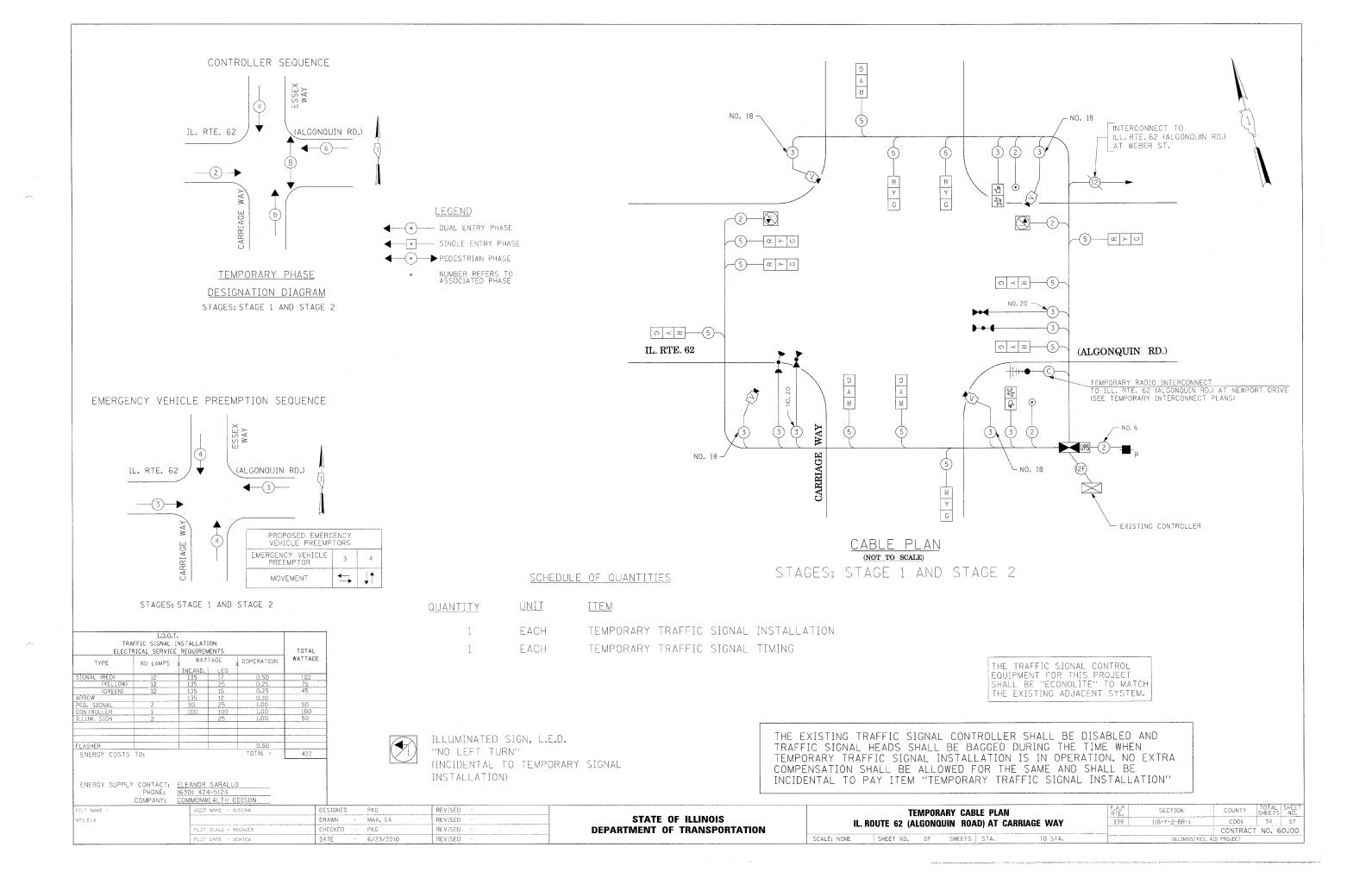
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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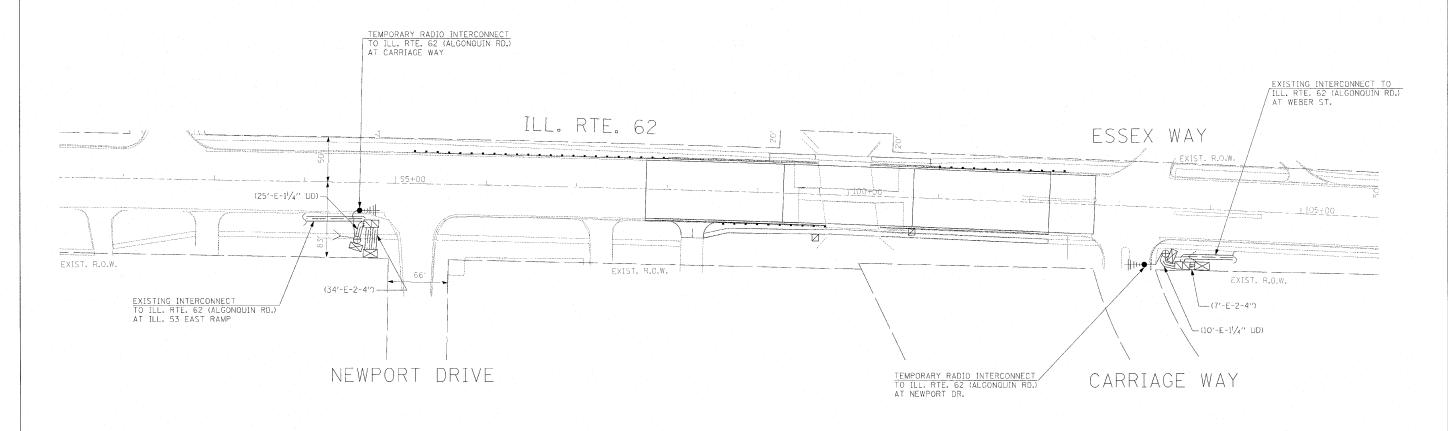
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		CONTRACT	NO. 6	0000
	ILLINOIS FED. AI	D PROJECT	2.001.00	

DEPART



NOTE: THE TEMPORARY RADIO INTERCONNECT WORK SHALL BE PERFORMED AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".





THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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	PLDT SCALE = \$SCALE\$	CHECKED - PKG	REVISED .	DEPARTMENT OF TRANSPORTATION	NEWPORT DRIVE TO CARRIAGE WAY			CONTRACT	T NO. 60J00
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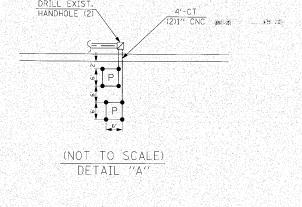
#### SCHEDULE OF INTERCONNECT QUANTITIES

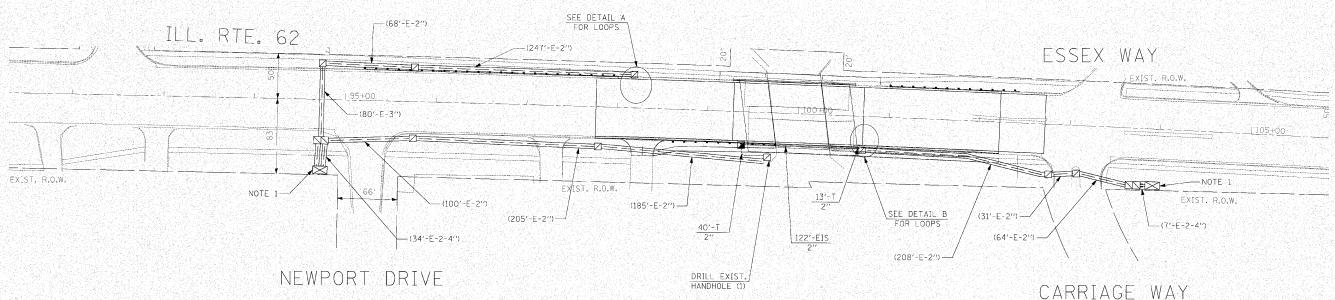
	QUANTITY	<u>UNIT</u>	<u>ITEM</u>
	53	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
	122	FOOT	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC
	53	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
	6	EACH	DRILL EXISTING HANDHOLE
The contract of the second of	1992	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
es is room	1023	FOOT	ELECTRIC CABLE IN CONDUIT. TRACER NO. 14 1C
	128	FOOT	PREFORMED DETECTOR LOOP
	1049	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F

(Million bit 1977) Sign (Mar)

OTE 1: REMOVE EXISTING FIBER OPTIC CABLE (1009') AND TRACER CABLE (983') BETWEEN NEWPORT DRIVE AND CARRIAGE WAY. INSTALL NEW FIBER OPTIC CABLE AND TRACER CABLE AS SHOWN IN PLANS AND AS DIRECTED BY THE ENGINEER.

NOTE 2: THE EXISTING "ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR" SHALL BE REUSED FOR THE NEW PREFORMED DETECTOR LOOPS.





#### INTERCONNECT PLAN LEGEND

PROPOSED EXISTING

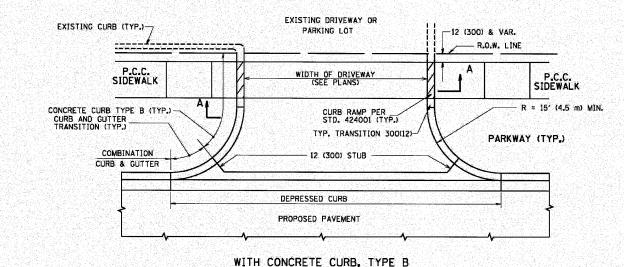
CONDUIT EMBEDDED IN STRUCTURE (EIS)

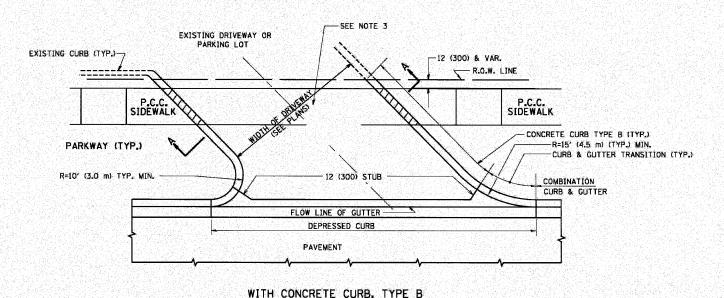
DRILL EXIST,
HANDHOLE (3)

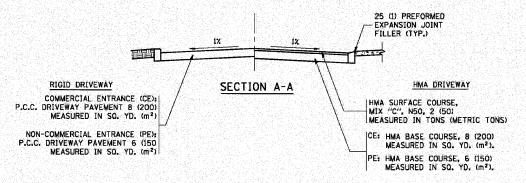
(NOT TO SCALE)
DETAIL "B"

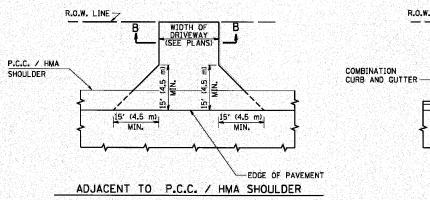
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

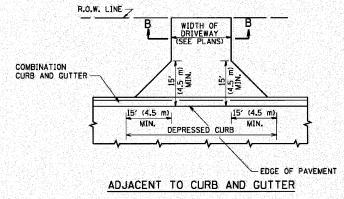
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(2012) [12] 김성영, 이미 경영의 2학자 유명, 경하는 경향의 <mark>경향의 그리고 있는 다음이 하다고 그 것을 모하는 다.</mark>		
하는데 #FILEE#하는 하는하는 , 그는 그는 그는 그는 그는 사람들은 하는 사람들은 하는 데 그리고 있다면 하는 것은 하는데, 그는 것은 것이 모든데 그리고 있다면 하는데 하는데 그렇다.	I DRAWN - MAA, EA REVISED -	STATE OF ILLINOIS ILL RTE, 62 (ALGONQUIN RD.) FROM
우리에, 프로워스 및 유민, 아름아 보는 아름다면 하는 사람들이 되었다.		■ The Property of the Prope
"가는 세근의 당근하는 이 마음하는 ''는 다 마음이 들어가는 다음이 다른 이 PLOT's SCALE'는 #SCALE# 등이 되었다는 다음이 되었다.	CHECKED	DEPARTMENT OF TRANSPORTATION NEWPORT DRIVE TO CARRIAGE WAY
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하는 나는 보고 있는 사람들은 사용되었다면 그는 하는 사람들은 사용이 함께 PLOTEDATE의 E "\$DATE\$의 사용된다 본 등이 된다. 이 사용된다 등이 되었다.	I DATE 6/23/2010 REVISED -	I SOUR PRODUCTION OF THE PRODUCT OF
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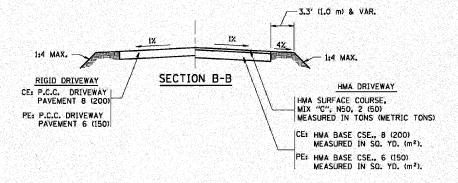












#### RURAL FIELD ENTRANCE (FE)

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

AGGREGATE BASE CSE., TYPE B, 8 (200) MEASURED IN SQ. YD. (m<sup>2</sup>).

#### 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, INNIESS OTHERWISE NOTED ON THE PLANS

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

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

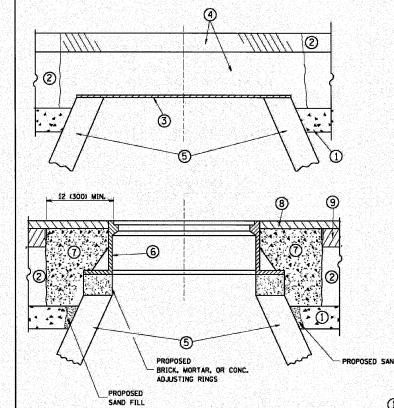
COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

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

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

#### DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND CURB OR EDGE GREATER THAN OR EQUAL TO 15'

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sfilels DRAWN SEW REV	EVISED STATE OF ILLINOIS	네. 전상하는 계획이 되어 되는 이 사람들은 사람들이 되었다. 그는 그 사람들이 나는 그 사람들은 중심에 가장 그를 잃지 않는 것을 하셨다면서 그렇다면 살다.	339 116-Y-2-BR-1 COOK 74 60
PLOT. SCALE = \$SCALE\$ CHECKED - FML REV	DEPARTMENT OF TRANSPORTATION	IL ROUTE 62 (ALGONQUIN ROAD) OVER SALT CREEK	BD-01 CONTRACT NO. 60J00
PLOT DATE = #DATE	EVISED 7	SCALE: N.T.S. SHEET NO. 1 OF 12 SHEETS STA. TO STA.	FED. ROAD DIST. NO.   ILLINOIS   FED. AID PROJECT



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

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

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

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

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

#### CONSTRUCTION PROCEDURES

#### STAGE 1 (BEFORE PAVEMENT MILLING)

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

#### STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

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

#### LEGEND

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

#### LOCATION OF STRUCTURES

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

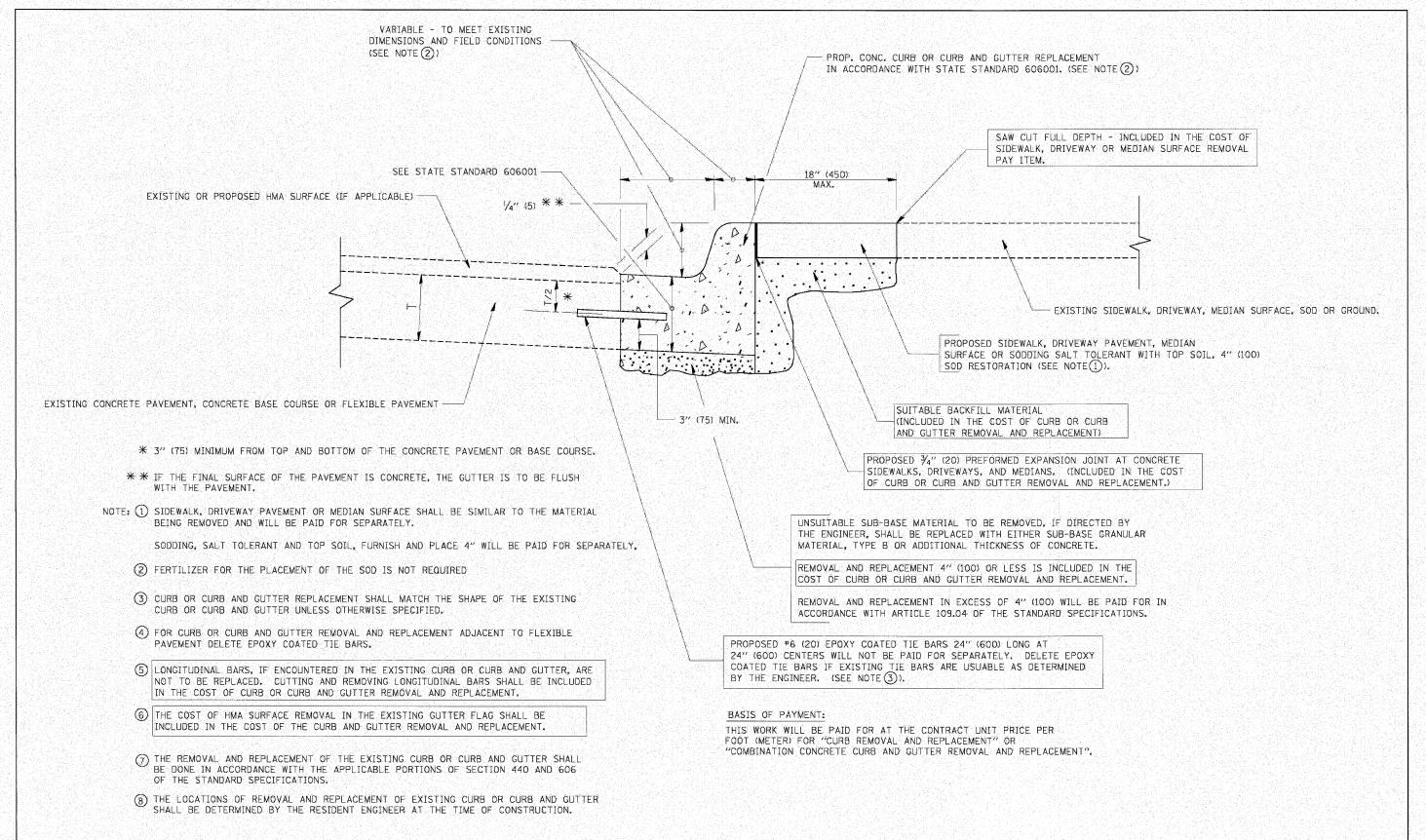
BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

# FRAMES AND LIDS ADJUSTMENT WITH MILLING; AND FRAMES AND LIDS ADJUSTMENT WITHOUT MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

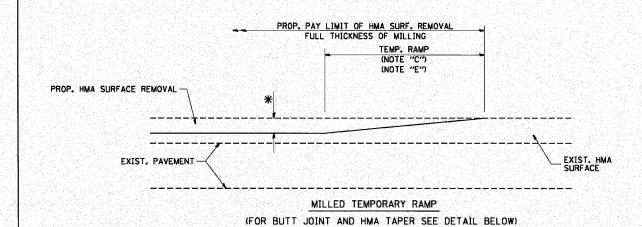
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#FILEL\$         DRAWN - SEW         REVISED -           PLOT SCALE = @SCALE\$         CHECKED - FML         REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 62 (ALGONQUIN ROAD) OVER SALT CREEK	339   116-Y-2-BR-1   COOK   74   61   BD-08   CONTRACT NO. 60J00
PLOT DATE = SOATES DATE = 2/2010 REVISED =	그리 중국 회장 회장 기업을 하다 하는 하는 하는 사람들이 가는 사람이 되었다.	SCALE: N.T.S. SHEET NO. 2 OF 12 SHEETS STA. TO STA.	FED. ROAD DIST. NO.   ILLINOIS   FED. AID   PROJECT



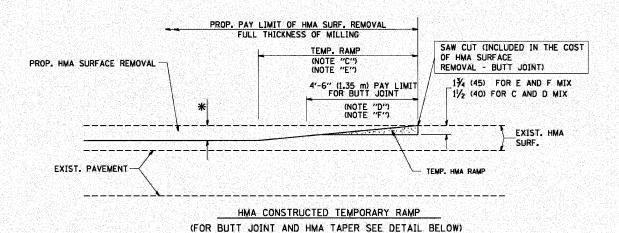
#### CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

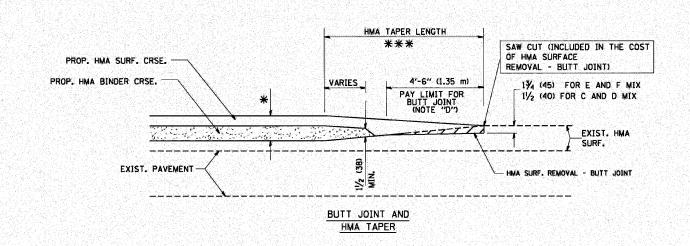
6. OW D			그리고 그리가 하다 그는 이번 사람이 얼마나는 얼마를 가지 않아 있다. 그리고 하는 하는 사람들이 모든 것이 되었다. 하는 사람들이 없다.	하다면 하는 사람들은 사람들이 마음을 하는 것이 되었다. 이 이 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은
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	\$FILĒL\$		DRAWN SEW REVISED -	
		PLOT SCALE = \$SCALE\$	CHECKED - FML REVISED -	DEPARTMENT OF TRANSPORTATION  IL ROUTE 62 (ALGONQUIN ROAD) OVER SALT CREEK  BD-24 CONTRACT NO. 6
		PLOT DATE = \$DATE\$	DATE = 2/2010 REVISED -	SCALE: N.T.S. SHEET NO. 3 OF 12 SHEETS STA. TO STA. FED. ROAD DIST. NO.   ILLINOIS FED. AID PROJECT



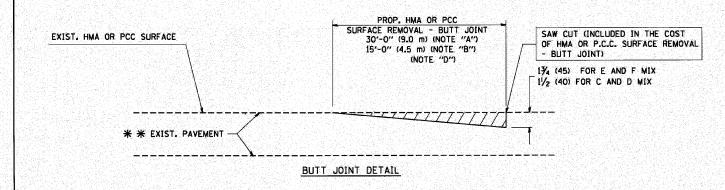
#### OPTION 1

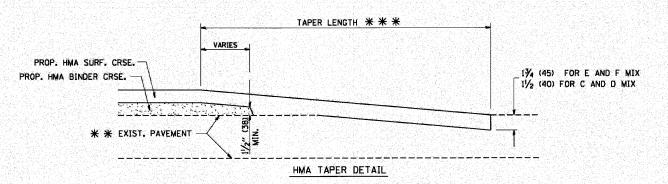


# OPTION 2 TYPICAL TEMPORARY RAMP



#### **BUTT JOINTS AND HMA TAPER**





# TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

\* \* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

#### NOTES

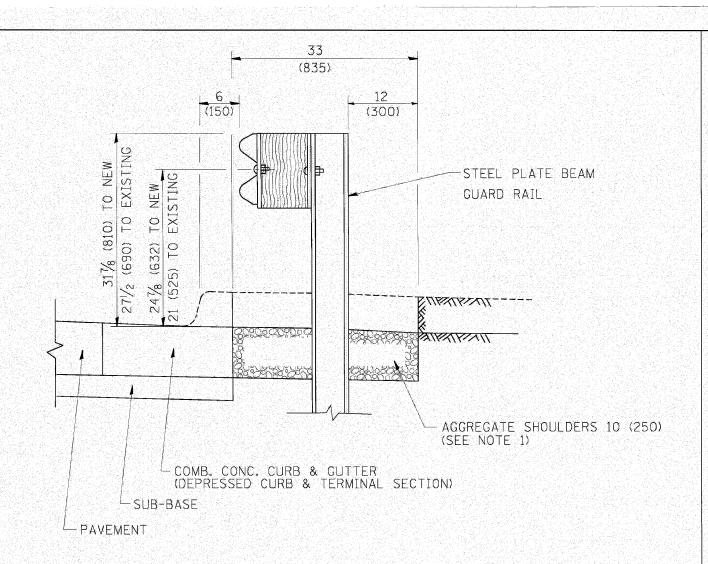
- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-O"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

#### BASIS OF PAYMENTS

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

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

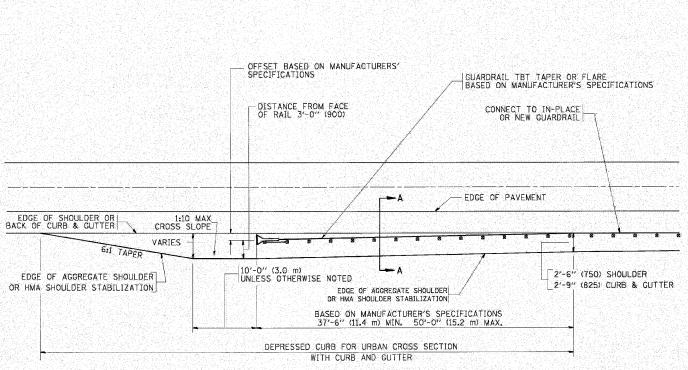
COUNTY TOTAL SHEE SHEETS NO. THE NAME : JSER NAME = \$USER\$ DESIGNED - SEW REVISED SECTION DISTRICT 1 STANDARDS STATE OF ILLINOIS FILEL® DRAWN SEW REVISED COOK 74 63 339 116-Y-2-BR-1 IL ROUTE 62 (ALGONQUIN ROAD) OVER SALT CREEK LOT SCALE = #SCALE# REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60J00 BD-32 DATE SHEET NO. 4 OF 12 SHEETS STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT 2/2010 REVISED



#### SECTION A-A

- NOTES: 1. THE AGGREGATE SHOULDER, 10" OR HMA SHOULDER, 6" (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
  - 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
  - 3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION.

    COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.



BASIS OF PAYMENT: HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE

PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDERS 6" (150 mm)".

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL

TBT = TRAFFIC BARRIER TERMINAL

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

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PLOT SCALE - SCALES CHECKED - FML REVISED - DEPARTMENT OF TRANSPORTATION IL KUUIE 02	(ALGONQUIN ROAD) OVER SALT CREEK	BD-34 CONTRACT NO. 60J00
PLOT DATE = *DATE* DATE - 2/2010 REVISED SCALE: N.T.S. SHEET NO	D. 5 OF 12 SHEETS STA. TO STA.	FED. ROAD DIST. NO.   ILLINOIS   FED. AID   PROJECT

FRAME EXTENSION INTO PAVEMENT	INNER HOOP REINFORCEMENT DIAMETER	SEMI CIRCULAR FORM DIAMETER	OUTER HOOP REINFORCEMENT DIAMETER
UP TO 8" (200)	3'-6" (1.1 m)	4'-0" (1.2 m)	5'-0" (1.5 m)
> 8" (200) TO 14" (360)	4'-0" (1.2 m)	4′-6″ (1.4 m)	5'-0" (1.5 m)

REVISED

REVISED

REVISED

REVISED

DESIGNED

DRAWN

CHECKED

SEW

SEW

FML

DESIGNER NOTE: THIS DETAIL IS TO BE USED WHEN THE GUTTER FLAG IS LESS THAN 24"

LEGEND:

SFILELS

USER NAME = \$USER\$

PLOT DATE = \$DATE\$

#### NOTES :

- 1. THE ROUNDOUT AND ADDED REINFORCEMENT WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PAVEMENT.
- TRANSVERSE JOINTS MAY BE MOVED TO ACCOMMODATE ROUNDOUT, EDGE OF CIRCULAR JOINT SHALL BE MINIMUM 12" (300) FROM TRANSVERSE JOINT. RELOCATED TRANSVERSE JOINT SHALL BE CONTINUOUS FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT.
- 3. SEMI-CIRCULAR FORM SHALL BE REMOVED PRIOR TO DRILL AND GROUT OF TIE BARS.
- 4. ALL REINFORCED BARS SHALL BE EPOXY COATED.
- DRILL AND GROUT IS PREFERRED, HOWEVER TIE BARS CAN BE POURED IN PLACE IF CLEARANCE IS PROVIDED TO OUTER EDGE OF FRAME. MINIMUM 2" (50) CLEARANCE.

TOTAL SHEE SHEETS NO.

CONTRACT NO. 60J00

COOK

116-Y-2-BR-1

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

BD-48

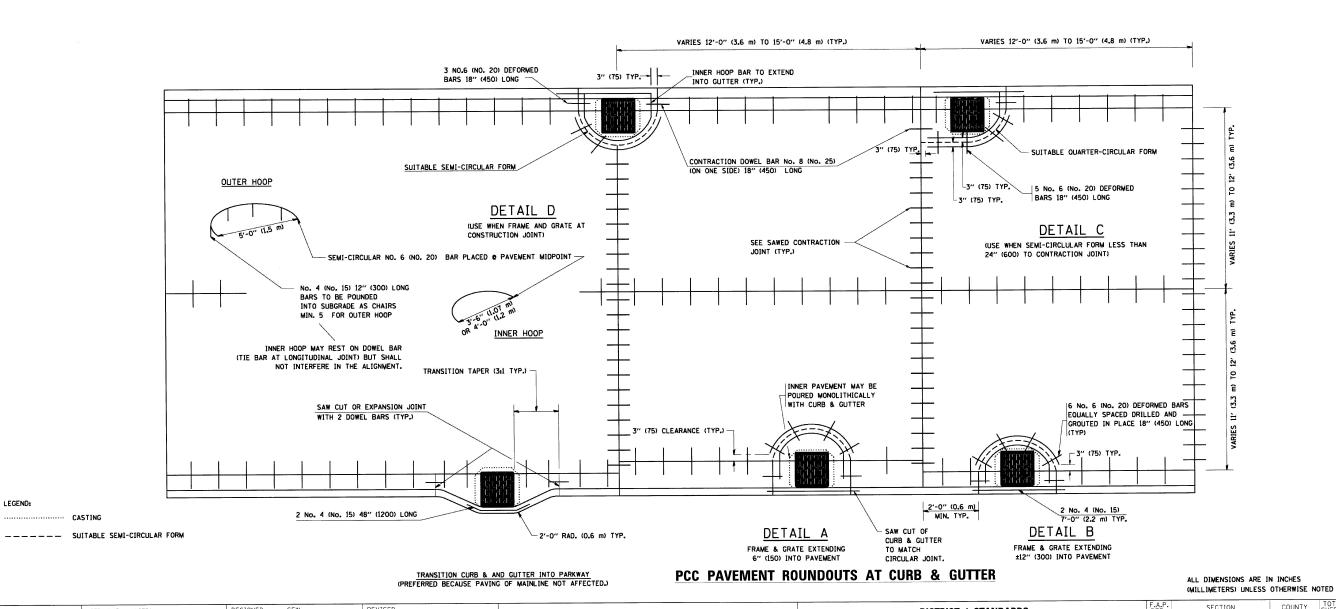
339

- 6. WOOD SHIMS SHALL BE USED TO ADJUST ALL FRAMES. AFTER ADJUSTING MORTAR HAS CURED, THE WOOD SHIMS SHALL BE REMOVED AND THE VOIDS UNDER THE FRAMES FILLED WITH NON SHRINK GROUT.
- 7. HOOP REINFORCEMENT SHALL BE ONE PIECE CONSTRUCTION.
- 8. CIRCULAR FRAMES AND GRATES MAY BE SUBSTITUTED.
- 9. CURB DOWELS MUST BE PLACED LEVEL & TRUE TO ALLOW CONTRACTION MOVEMENT.

DISTRICT 1 STANDARDS

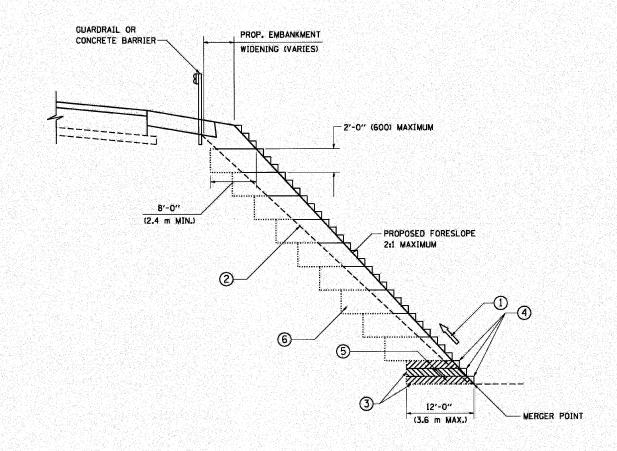
IL ROUTE 62 (ALGONQUIN ROAD) OVER SALT CREEK

SHEET NO. 6 OF 12 SHEETS STA.



STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 



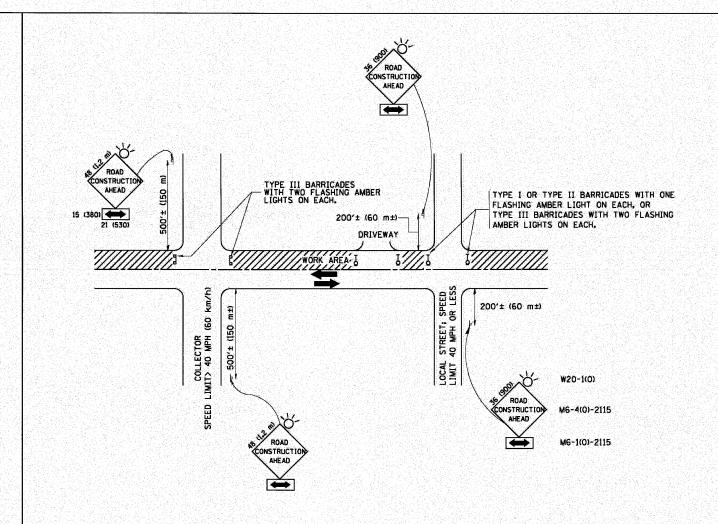
#### TYPICAL BENCHING DETAIL FOR EMBANKMENT

#### NOTES:

- O CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- 2 EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- TRIM TO FINAL SLOPE.
- 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).

#### BENCHING DETAIL FOR EMBANKMENT WIDENING ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)

				여러가는 사람들은 가는 사람들이 되는 것들은 경우 이 경우를 가는 사람들은 이 경우를 가장 하는 것이 되었다. 그는 사람들은 경우를 가장 하는 것이 되었다면 되었다. 그런 사람들은 그렇게 되었다면 사람들은 그리고 있다면 되었다. 그는 사람들은 기계를 가장 하는 것이 되었다면 되었다면 하는데 되
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	PLOT DATE = \$DATE\$	DATE - 2/2010	REVISED -	SCALE: N.T.S.   SHEET NO. 7 OF 12 SHEETS   STA. TO STA.   FED. ROAD DIST. NO.   ILLINOIS FED. AID PROJECT



#### NOTES:

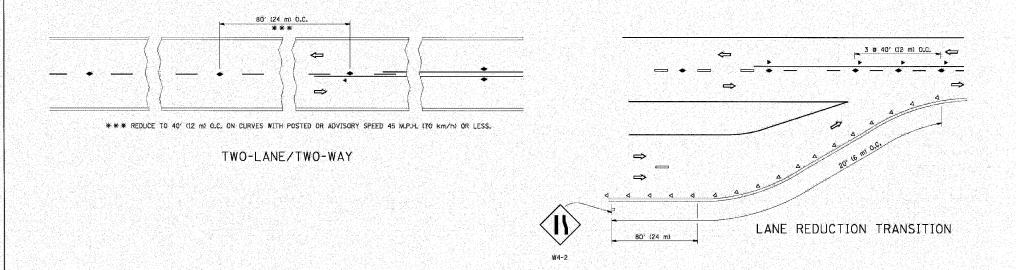
- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE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

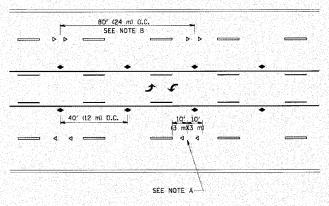
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL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

All dimensions are in millimeters (inches)

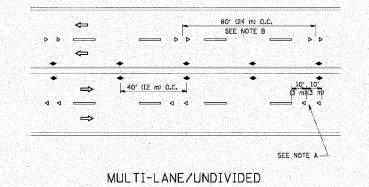
# TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS

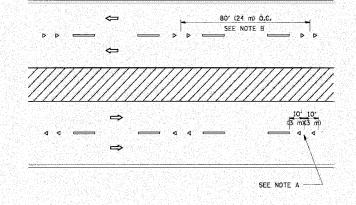
선물은 성경하는 물이 다른 수 하면 가지가 보는 것들은 말라고 그렇게 되었다면 하는 것들이 하는 것 같아. 그는 것 같아.	동물 시간 사용을 보시한 경우를 잃었다면 하는 것들이 있는 모양이는 보이라는 것들이 가장하다는 모양으로 보다 하나 있다면 하는데 함께 살아 있다.	Unless, Offier wise Strown.
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PLOT DATE = \$DATES DATE 2/2010	REVISED SCALE; N.T	19 19 19 19 19 19 19 19 19 19 19 19 19 1





TWO-WAY LEFT TURN





#### MULTI-LANE/DIVIDED

#### GENERAL NOTES

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

#### LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H 420 km/h) LOWER THAN POSTED SPEEDS.

#### SYMBOLS

---- YELLOW STRIPE

- WHITE STRIPE

- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (₩/O)
- ◆ TWO-WAY AMBER MARKER

#### DESIGN NOTES

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

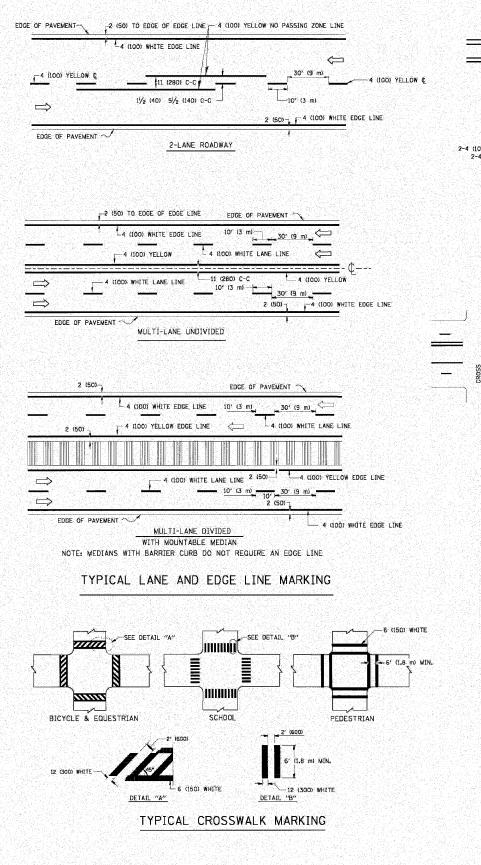
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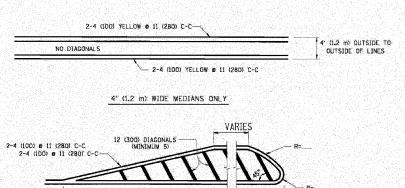
LEFT TURN

#### RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)

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

FILELS ORAWN SEW REVISED - STATE OF ILLINOIS PLOT SCALE = SSCALES CHECKED - FML REVISED - DEPARTMENT OF TRANSPORTATION  STATE OF ILLINOIS IL ROUTE 62 (ALGONQUIN ROAD) OVER SALT CREEK  339 116-Y-2-BR-1 COOK 74 68 TC-11 CONTRACT NO. 60JOC	FILE NAME :=	USER NAME = \$USER\$ DESIGNED - SEW	REVISED -	DISTRICT 1 STANDARDS F.A.P. SECTION COUNTY TOTAL SHE
DEFANIVENT OF INANSPORTATION	\$FILEL\$	DRAWN SEW	11211020	STATE OF ILLINOIS II POLITE S2 (ALCONOLIIN POAD) OVER SALT CREEV 339 116-Y-2-BR-1 COOK 74 68
PLOT DATE - \$DATE - 2/2010   REVISED -   SCALE: N.T.S.   SHEET NO. 9 OF 12 SHEETS   STA. TO STA.   FED. ROAD DIST, NO.   ILLINOIS   FED. ROAD DIST, NO.   ILLINOIS		PLOT SCALE = \$SCALE\$ CHECKED - FML	REVISED -	DEFANTIMENT OF TRANSFORTATION CONTRACT NO. 6030





DI & 11 (280) C-C (MINIMUM 5)

MEDIAN LENGTH

FOR MEDIAN LENGTH

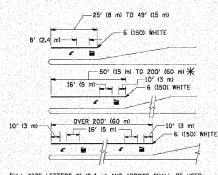
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING
CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED
DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (M08E THAN 45MPH (70 km/h))

# MEDIANS OVER 4' (1.2 m) WIDE 4 (100) YELLOW LINES (5½ (140) C-C) 4 (100) YELLOW D 11 (280) C-C 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.

6'-4" (2 m) 8' 8' 8' 8' 8' 8' EDIAN WITH TWO-WAY LEFT TURN LANE

#### TYPICAL PAINTED MEDIAN MARKING



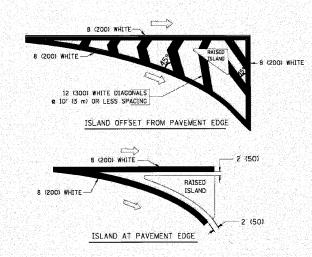
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.

AREA = 15.6 SQ. FT. (1.5 m² ) MLY AREA = 20.8 SQ. FT. (1.9 m²)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

#### TYPICAL TURN LANE MARKING



#### TYPICAL ISLAND MARKING

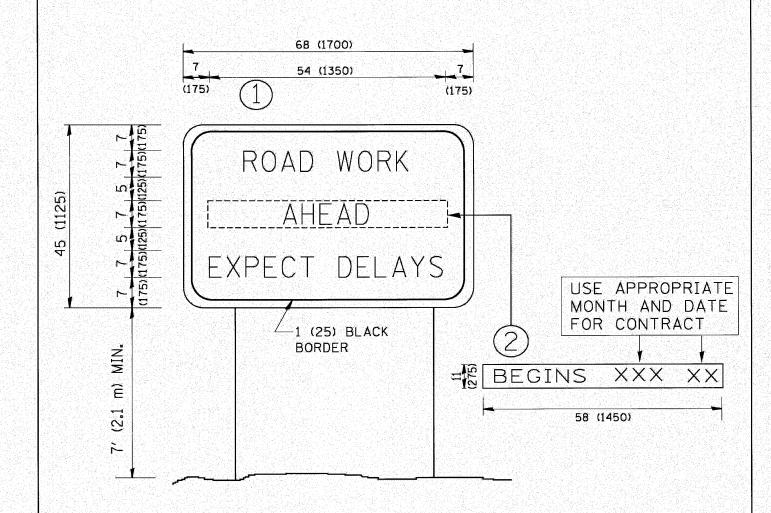
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3' m) LINE WITH 30' (9' m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 2 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 m 4 (100)	SOLID SOLID	YELLOW YELLOW	51/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C DMIT SKIP-DASH CENTERLINE BETWEEN
LÄNÉ LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	io' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES LEXTENSIONS 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' (2.4ml)	SOLID	WRITE	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; 51/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	B' (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 A' (1,2 m) IN ADVANCE OF AND PARALLEL TO (ROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1,2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS & 45°	SOLID	WAITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" IS 6" (1.8 m. LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "M"-3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"-54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS	12 (300) <b>©</b> 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50" (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75" (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h) 150" (45 m) C-C (OVER 45MPH (70 km/h))

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.

#### **DISTRICT ONE TYPICAL PAVEMENT MARKINGS**

FILE NAME = USER NAME = @USER	REVISED -	DISTRICT 1 STANDARDS	F.A.P. SECTION COUNTY SHEETS NO.
#FILEL# DRAWN - SEW	REVISED - STATE OF ILLINOIS REVISED - DEPARTMENT OF TRANSPORTATION	IL ROUTE 62 (ALGONQUIN ROAD) OVER SALT CREEK	339 116-Y-2-BR-1 COOK 74 69
PLOT DATE = SDATES DATE - 2/2010		SCALE: N.T.S.   SHEET NO. 10 OF 12 SHEETS   STA. TO STA.	FED. ROAD DIST. NO.   ILLINOIS   FED. AID   PROJECT



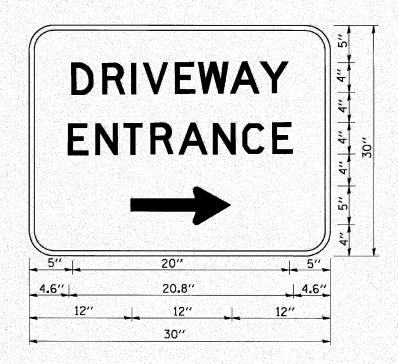
#### NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL 2 SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

#### ARTERIAL ROAD INFORMATION SIGN

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

[조로를 통해 하고 보이 하는데	
FILE NAME - USER NAME - SUSERS DESIGNED - SEW REVISED - DISTRICT 1 STANDARDS	F.A.P. SECTION COUNTY SHEETS NO.
Tentine ** Company	339 116-Y-2-BR-1 COOK 74 70
PLOT SCALE = SSCALES CHECKED FML REVISED -  DEPARTMENT OF TRANSPORTATION  IL ROUTE 62 (ALGONQUIN ROAD) OVER SALT CREEK	TC-22 CONTRACT NO. 60J00
PLOT DATE = SDATES DATE - 2/2010 REVISED - STA. TO STA.	FED. ROAD DIST. NO.   ILLINOIS   FED. AID   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".

#### **DRIVEWAY ENTRANCE SIGNING**

	TANDARDS	SECTION COUNT	TY SHEETS NO
FELLS ORAWN SEW REVISED STATE OF ILLINOIS	그들이 하나 보는 모든 사람들은 경기에 가지 않는 사람들이 하지만 사용하다. 유명한	339 116-Y-2-BR-1 COOK	K 74 71
PLOT SCALE # \$SCALE \$ CHECKED - FML REVISED - DEPARTMENT OF TRANSPORTATION   L ROUTE 02 (ALGUNUUM 1	CTA TO CTA	TC-26 CONTR	RACT NO. 60J00

