1-20-2012 LETTING ITEM 103

H:\DOT\2009-246 PTB 153 Item 2\0I6-II0\Oriole_FinalEngineering\Plan Sheets\0I-0I cover sheet.dgn 11/4/2011 4:59:54 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101 *	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 60M79		

*101 + 3 = 104

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

F.A.I. ROUTE NO. 90 (I-90)
SECTION 1515.1-B
ORIOLE AVENUE BRIDGE
OVER I-90
BRIDGE STRUCTURE REPLACEMENT
BRIDGE STRUCTURE NO. 016-1101
COOK COUNTY

PROJECT: IM-090-5(083)080

C-91-166-11

D-91-166-11

LOCATION OF SECTION INDICATED THUS: -■-

DESIGN DESIGNATION

2520 (10) MAJOR-AREA SERVICE 2.45 (COMPOSITE -20)

THE PROJCET IS LOCATED IN CITY OF CHICAGO, IL

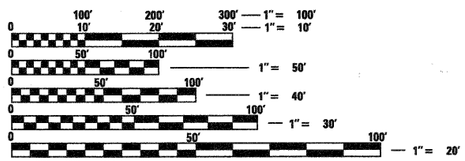
TRAFFIC DATA

ORIOLE AVENUE
ADT= 17,400 (2009) 28,000 (2021)

I-90
ADT= 318,600 (2008) 292,000 (2021)

POSTED SPEED LIMITS:

ORIOLE AVE. = 30MPH
HIGGINS ROAD = 35MPH
I-90 = 55MPH

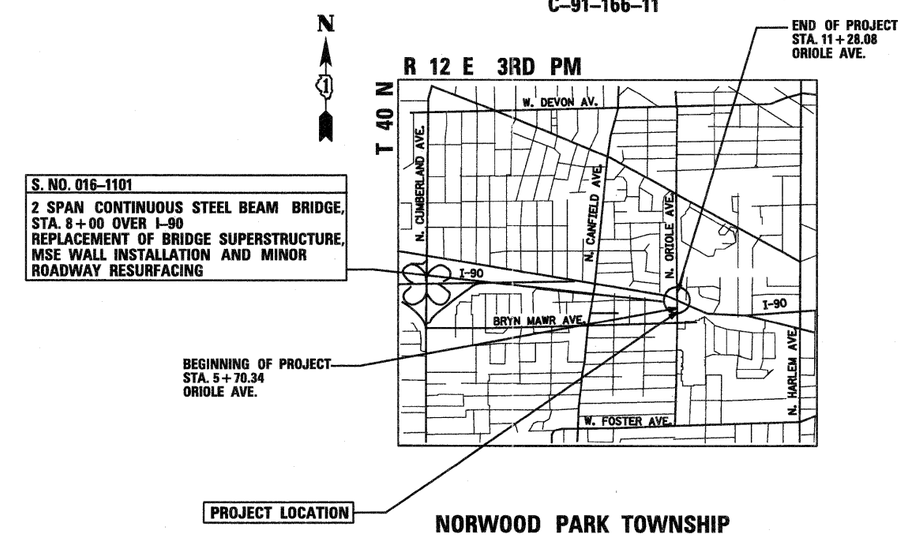


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

C.U.A.N.
CHICAGO UTILITY ALERT NETWORK
1-312-744-7000

PROJECT MANAGER: ROBERT BORO (847) 705-4237

CONTRACT NO. 60M79



NORWOOD PARK TOWNSHIP
LOCATION MAP

GROSS LENGTH = 557.74 FT. = 0.106 MILE
NET LENGTH = 557.74 FT. = 0.106 MILE

ROBERT J. LOEHR
81-3992
REGISTERED STRUCTURAL ENGINEER OF ILLINOIS

ROBERT J. LOEHR, S.E., P.E.
DATE: 10/24/2011
EXP. 11/30/2012
SHEETS: 44-79

THOMAS P. PAOLICCHI
062-056747
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

THOMAS P. PAOLICCHI, P.E.
DATE: 10/24/2011
EXP. 11/30/2013
SHEETS: 12-43, 95-101

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED November 14, 20 11
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
December 9 20 11
Scott E. Stitt P.E. /a
acting ENGINEER OF DESIGN AND ENVIRONMENT
December 9 20 11
William B. Frey /a
Interim DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

ABNA

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

H:\IDOT\2009-246 PTB 153 Item 2\016-1101\Oriole_Final\Engineering\Plan Sheets\02-Gen Notes.dgn 12/6/2011 11:18:53 PM

INDEX OF SHEETS

STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-06	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420401-08	BRIDGE APPROACH PAVEMENT CONNECTOR
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606201-02	TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
664001-02	CHAIN LINK FENCE
701006-03	OFF-RD OPERATIONS 2L, 2W , 15' TO 24" FROM PAVEMENT EDGE
701101-02	OFF-RD OPERATIONS MULTILINE, 15' TO 24" FROM PAVEMENT EDGE
701400-05	APPROACH TO LANE CLOSURE - FREEWAY, EXPRESSWAY
701401-06	LANE CLOSURE - FREEWAY, EXPRESSWAY
701411-08	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45MPH
606201-02	
701446-03	TWO LANE CLOSURE - FREEWAY, EXPRESSWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-07	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-08	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	LANE CLOSURE, MULTILANE INTERSECTION 1W OR 2W WITH CROSSING OR SIDEWALK CLOSURE
701901-02	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-03	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORTS
729001-01	APPLICATIONS OF TYPE A AND B METAL POSTS (FOR SIGNS AND MARKERS)

STATE STANDARDS (CONT.)

STANDARD NO.	DESCRIPTION
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT

GENERAL NOTES - ROADWAY

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "CUAN" (CHICAGO UTILITY ALERT NETWORK) AT 312-744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, GAS AND OTHER UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED).

2. 10 FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND OTHER ITEMS OF WORK TO EXISTING CURBS & GUTTERS AND OTHER ITEMS IN THE FIELD. UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF CHICAGO.

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

5. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

6. THE CONTRACTOR SHALL CONTACT IDOT'S ELECTRICAL MAINTENANCE SECTION IN ORDER FOR IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR TO LOCATE THE CABLES AND CONDUITS ALONG THE EXPRESSWAY.

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

* 8. USE NO. #8 (25) EPOXY-COATED TIE BARS CONFORMING TO ART. 1006.10(a)(2) OF THE STANDARD SPECIFICATION FOR LONGITUDINAL CONSTUCTION JOINT GROUTED IN-PLACE TIE BAR AS SHOWN ON STATE STANDARD 420001 AND FOR TIEING PC CONCRETE WIDENING TO EXISTING CONCRETE PAVEMENT AS SHOWN ON THE PLANS. THE TIE BARS WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE COST OF THE PAVEMENT ITEMS BEING CONSTRUCTED.

9. ANY TRAFFIC SIGNS WHICH REQUIRE RELOCATION AND/OR TEMPORARY MOUNTING DUE TO CONSTRUCTION OPERATIONS IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS SHALL BE INCLUDED IN THE UNIT BID PRICES FOR TRAFFIC CONTROL AND PROTECTION. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

* 10. FULL-DEPTH SAWING IS REQUIRED TO SATISFACTORILY REMOVE THE EXISTING CURB AND GUTTER, SIDEWALK AND PAVEMENT. THE COST OF THE FULL DEPTH SAWING SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.

11. THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER AT (773) 685-8386 A MINIMUM OF TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

12. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED (1 1/2" INCHES) WHERE THE SPEED LIMIT IS (45MPH) OR LESS AND (1 INCH) WHERE THE SPEED LIMIT IS GREATER THAN (45MPH); WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF (3 INCHES) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H) .

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

14. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS BY THIS WORK OUTSIDE THE PROJECT LIMITS TO ITS ORIGINAL SHAPE. COST INCLUDED IN OTHER CONTRACT PAY ITEMS.

15. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT (847) 705-4151 A MINIMUM OF 24 HOURS IN ADVANCE OF DAILY LANE, RAMP, AND SHOULDER CLOSURES, AND 72 HOURS IN ADVANCE OF ALL PERMANENT AND WEEKEND CLOUSRES ON I-90.

16. MAINTAIN ALL EXISTING BUS ROUTE SIGNAGE DURING THE ENTIRE CONSTRUCTION DURATION. EXISTING BUS SERVICES THAT UTILIZE ORIOLE AVENUE BRIDGE ARE CTA ROUTE #64 AND PACE ROUTE #209.

CONTACT INFORMATION FOR CTA AND PACE:

CHICAGO TRANSIT AUTHORITY
ELSA GUTIERREZ
GENERAL MANAGER SERVICE PLANNING
312-681-4282

CHICAGO TRANSIT AUTHORITY
ROBERT VANCE
STRATEGIC PLANNING AND POLICY
312-681-4168

PACE NORTHWEST DIVISION
RICK FOSTER
SUPERINTENDENT OF TRANSPORTATION
900 EAST NORTHWEST HIGHWAY
DES PLAINES, ILLINOIS 60016
847-699-3706

GENERAL NOTES - TRAFFIC CONTROL & PROTECTION

1. STAGING PROCEDURES PRESENTED ARE THE SUGGESTED SEQUENCE OF OPERATIONS. AT HIS OPTION, THE CONTRACTOR MAY SUBMIT AN ALTERNATIVE STAGING PROPOSAL TO THE ENGINEER FOR HIS APPROVAL.

2. TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OF CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. THE CONTRACTOR SHALL RESPOND TO ANY REQUEST MADE BY THE ENGINEER FOR CORRECTION WITHIN TWO HOURS FROM THE TIME OF NOTIFICATION.

3. ALL TEMPORARY PAVEMENT MARKINGS PROPOSED WITHIN THE WORK AREA SHALL BE COMPLETED PRIOR TO THE CONSTRUCTION PHASE CHANGE.

COMMITMENTS

NONE

*DENOTES INCIDENTAL WORK

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED -	12/05/2011
CHECKED	TPP	REVISED -	
DRAWN	JS	REVISED -	
CHECKED	TPP	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101
SCALE: NONE | SHEET NO. X OF X SHEETS | STA. | TO STA.

INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	2
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			

GENERAL NOTES - CITY OF CHICAGO

1. EXISTING CATCH BASINS LATERALS TO BE REUSED MUST BE RODDED AND FLUSHED IN THE PRESENCE OF THE DEPARTMENT OF SEWERS' INSPECTOR. A NEW CONNECTION TO THE MAIN SEWER IS REQUIRED IF THE EXISTING CATCH BASIN LATERAL IS NOT APPROVED BY THE SEWER INSPECTOR.

2. WHEN A SEWER STRUCTURE IS ABANDONED, ALL PIPE OPENINGS SHALL BE PLUGGED, STRUCTURES FILLED WITH TRENCH BACKFILL, LIDS AND FRAMES REMOVED AND SURFACE RESTORED.

3. IN LOCATIONS WHERE THE MAIN SEWER IS NOT BEING REPLACED AND THE EXISTING DRAINAGE FACILITIES ARE DISTURBED OR DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO RESTORE AND REPLACE THE DAMAGED FACILITIES AT HIS/HER EXPENSE TO THE SATISFACTION OF THE DEPARTMENT OF WATER MANAGEMENT. THE SEWER FLOW MUST BE MAINTAINED AT ALL TIMES.

4. AS-BUILT PLANS MUST BE SUBMITTED SOON AFTER WORK COMPLETION. FINAL PAYMENT SHALL NOT BE MADE TO THE CONTRACTOR UNTIL THE DEPARTMENT OF WATER MANAGEMENT ACKNOWLEDGES RECEIPT OF AS-BUILT PLANS.

5. ALL CATCH BASINS IN THE CITY OF CHICAGO MUST MEET THE DEPARTMENT OF WATER MANAGEMENT STANDARDS.

6. SEWER SIZES 21" DIAMETER OR SMALLER MUST BE EXTRA STRENGTH VITRIFIED CLAY PIPE C-700 WITH C-425 JOINTS OR DUCTILE IRON PIPE CLASS 52 OR EQUIVALENT WITH PUSH-ON OR MECHANICAL JOINTS. SEWER SIZES 24" DIAMETER OR LARGER MUST BE REINFORCED CONCRETE PIPE TYPE C-76, CLASS III, WALL "B" WITH "O-RING" JOINTS.

7. PERMITS FROM THE DEPARTMENT OF WATER MANAGEMENT ARE REQUIRED FOR ALL UNDERGROUND STORM, SANITARY OR COMBINED SEWER SYSTEM CONSTRUCTION, AND FOR ALL WORK INVOLVING ADJUSTMENT OF SEWER CONSTRUCTION, AND FOR ALL WORK INVOLVING ADJUSTMENT OF SEWER STRUCTURES. THE DEPARTMENT OF SEWER'S PERMIT MUST BE OBTAINED BY A LICENSED SEWER DRAIN LAYER PRIOR TO THE START OF CONSTRUCTION. THE LICENSED SEWER CONTRACTOR/SUBCONTRACTOR MUST SUBMIT TWO SETS OF PLANS APPROVED BY THE DEPARTMENT OF SEWERS FOR THE ISSUE OF SEWER PERMIT TO SUITE 410, 333 SOUTH STATE STREET, CHICAGO, IL 60604-3971. INSPECTION WILL BE PROVIDED BY THE DEPARTMENT OF SEWERS.

8. THE CONTRACTOR IS RESPONSIBLE FOR THE ADEQUATE PROTECTION OF THE EXISTING SEWERS, DRAIN CONNECTIONS, SEWER STRUCTURES, AND BENCH MONUMENTS DURING CONSTRUCTION OPERATIONS AND USE OF HEAVY EQUIPMENT IN THE LIMITS OF THE PROJECT.

9. THE CONTRACTOR SHALL LOCATE PROMPTLY AND PROPERLY CONNECT TO THE NEW SEWERS ALL LIVE HOUSE DRAINS, CATCH BASIN DRAINS AND OTHER EXISTING LATERALS, DRAINS AND SEWERS, OF WHATEVER NATURE, WHICH ARE CONNECTED TO THE EXISTING SEWERS BEING REPAIRED OR REPLACED.

10. IF THE SEWER PIPE COVER IS REDUCED TO LESS THAN 3 FEET, CONCRETE ENCASEMENT OF THE SEWER OR REPLACEMENT OF THE SEWER WITH CLASS 52 DUCTILE IRON PIPE WILL BE REQUIRED.

11. IN CASE OF ANY DAMAGE TO THE DEPARTMENT OF WATER MANAGEMENT SYSTEM, PRIVATE OR PUBLIC DRAINS CONNECTIONS, AND/OR BENCH MONUMENTS, THE CONTRACTOR SHALL CONTACT THE DEPARTMENT OF SEWERS IMMEDIATELY AT (312) 747-7892 OR (312) 747-7893. THE CONTRACTOR SHALL AT HIS/HER COST, REPLACE THE AFFECTED SEWERS, DRAIN CONNECTIONS, SEWER STRUCTURES AND OR BENCH MONUMENTS AS NECESSARY. CONTACT THOMAS MENDOZA AT 312-747-4680 REGARDING FINAL INSPECTION OF ALL SEWER FACILITIES.

12. IN ARTERIAL STREETS, PERFORATED LIDS SHALL BE PLACED ON ALL SEWER STRUCTURES UNLESS APPROVED BY THE ENGINEER. IN RESIDENTIAL STREETS, MANHOLES MAY REQUIRE CLOSED LIDS. CONTRACTOR SHALL CHECK WITH THE DEPARTMENT OF WATER MANAGEMENT INSPECTOR.

13. BENCH MONUMENTS LOCATIONS WITHIN THE PROJECT LIMITS OF THE IMPROVEMENTS CAN BE OBTAINED FOR THE DEPARTMENT OF WATER MANAGEMENT 333 SOUTH STATE STREET SUITE 410, CHICAGO, IL 60604-3971. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPLACING AND BENCH MONUMENT DAMAGED OR DESTROYED DURING CONSTRUCTION.

14. SIDEWALK ACCESSIBILITY RAMPS SHALL NOT BE CONSTRUCTED DIRECTLY OVER EXISTING OR PROPOSED DRAINAGE STRUCTURES.

15. THE CONTRACTOR IS REQUIRED TO REPLACE ANY BROKEN FRAMES AND LIDS OF SEWER STRUCTURES WITH THE DEPARTMENT OF WATER MANAGEMENT STANDARD FRAMES AND LIDS. IN ADJUSTMENT OR RECONSTRUCTION OF SEWER STRUCTURES, ANY NON-STANDARD FRAMES AND LIDS MUST BE REPLACED WITH STANDARD FRAMES AND LIDS. IN ADJUSTMENT OR RECONSTRUCTION OF INLETS, ANY NON-STANDARD INLETS (GUTTER BOXES) MUST BE REPLACED WITH THE DEPARTMENT OF WATER MANAGEMENT STANDARD INLETS.

16. THE FRAMES AND LIDS OF SEWER STRUCTURES TO BE ABANDONED, REMOVED, OR FILLED SHOULD BE SALVAGED AND THE DEPARTMENT OF WATER MANAGEMENT NOTIFIED FOR PICK-UP.

17. CITY OF CHICAGO WATER VALVE VAULTS AND SEWER STRUCTURES SHALL NOT BE CLOSED, COVERED OR OTHERWISE OBSTRUCTED SURING CONSTRUCTION WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT OF WATER MANAGEMENT.

18. CURB AND GUTTER CONSTRUCTION SHALL PROVIDE A MINIMUM CURB HEIGHT OF 3".

19. BACKFILL UNDER SIDEWALKS SHALL BE FA-2.

20. PAVEMENT REPLACEMENT AROUND FRAMES AND GRATES OR LIDS WHERE DRAINAGE, WATER MAIN OR ELECTRICAL STRUCTURES ARE ADJUSTED OR RECONSTRUCTED, SHALL BE WITH CLASS SI CONCRETE.

21. ALL PAVEMENT PATCHING SHALL BE CLASS C.

22. IT IS THE RESPONSIBILITY OF THE UTILITY COMPANY/GOVERNMENT AGENCY AND ITS CONTRACTORS TO OBTAIN THE NECESSARY BACKGROUND INFORMATION FROM THE DEPARTMENT OF WATER MANAGEMENT IN MEETING THE DEPARTMENT'S REQUIREMENTS FOR EXISTING FACILITIES DURING CONSTRUCTION.

23. IN THE RELOCATION OR CONSTRUCTION OF PRIVATE OR PUBLIC FACILITIES, INCLUDING PIPE UNDER DRAINS AND/OR SUB DRAINS, THE UTILITY SHOULD BE LOCATED AS FAR AWAY AS POSSIBLE FROM THE DEPARTMENT OF WATER MANAGEMENT FACILITIES.

24. MANHOLES, CATCH BASINS & INLETS MUST BE PROTECTED FROM ENTRY OF ASPHALT/DEBRIS INTO THE SEWER SYSTEM DURING CONSTRUCTION. THE CONTRACTOR SHALL MARK LOCATIONS OF ALL SEWER STRUCTURES ON THE SIDEWALK BEFORE STARTING PAVEMENT REMOVAL/REPLACEMENT, ADJUSTMENT OF FRAMES AND LIDS OF SEWER STRUCTURES MUST BE COMPLETED PRIOR TO STREET RESURFACING.

25. THE CITY OF CHICAGO IS TO MAKE ADJUSTMENTS TO THEIR STREET LIGHTING FACILITIES. THE CONTRACTOR SHALL COORDINATE HIS WORK AND COOPERATE WITH THE CITY OF CHICAGO IN THESE ADJUSTMENTS. THIS COORDINATION AND COOPERATION BY THE CONTRACTOR WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE COSIDERED INCLUDED IN THE COSTS OF THE CONTRACT.

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	JS	REVISED	-
CHECKED	TPP	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

SCALE: NONE | SHEET NO. X OF X SHEETS | STA. | TO STA.

CITY OF CHICAGO
GENERAL NOTES

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	3
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			

URBAN

90% FED./10% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE TYPE ROADWAY ~~100% STATE~~ 0004	BRIDGE SN 016-1101 ~~100% STATE~~ 0011	*PARKING 50% CITY 50% STATE 0021
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	64	64		
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	106	106		
20101000	TEMPORARY FENCE	FOOT	140	140		
20200100	EARTH EXCAVATION	CU YD	425	425		
20800150	TRENCH BACKFILL	CU YD	33	33		
● 21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2994	2994		
● 25000210	SEEDING, CLASS 2A	ACRE	0.50	0.50		
● 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	42	42		
● 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	42	42		
● 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	42	42		
● 25100630	EROSION CONTROL BLANKET	SQ YD	2251	2251		
● 25200110	SODDING, SALT TOLERANT	SQ YD	744	744		
● 25200200	SUPPLEMENTAL WATERING	UNIT	19.0	19.0		
● 28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	46	46		
● 28000400	PERIMETER EROSION BARRIER	FOOT	824	824		
31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	695	602		93
35300400	PORTLAND CEMENT CONCRETE BASE COURSE 9"	SQ YD	425	332		93
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	292	285		7
40600300	AGGREGATE (PRIME COAT)	TON	7	6		1
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	1	1		
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	127	127		
40600895	CONSTRUCTING TEST STRIP	EACH	1	1		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	97	97		
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	434	389		45
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	325	317		8
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1536	1536		
44000100	PAVEMENT REMOVAL	SQ YD	8.1	8.1		
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	122	122		
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	2754	2754		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	57	57		

● SPECIALTY ITEMS

* SPECIAL PROVISION
** GUIDE BRIDGE SPECIAL PROVISION
*** BDE SPECIAL PROVISION

* NOTE:
PARKING LANE: COST PARTICIPATION 50% CITY OF CHICAGO AND 50% STATE

URBAN

90/10 FED/ST

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE TYPE ROADWAY ~~100% STATE~~ 0004	BRIDGE SN 016-1101 ~~100% STATE~~ 0011
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1321	1321	
44000600	SIDEWALK REMOVAL	SQ FT	2056	2056	
44004250	PAVED SHOULDER REMOVAL	SQ YD	195	195	
44201337	CLASS C PATCHES, TYPE I, 9 INCH	SQ YD	16	16	
44201341	CLASS C PATCHES, TYPE II, 9 INCH	SQ YD	25	25	
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	1235	1235	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50102400	CONCRETE REMOVAL	CU YD	2.5		2.5
50157300	PROTECTIVE SHIELD	SQ YD	1150		1150
50200100	STRUCTURE EXCAVATION	CU YD	2055		2055
50300225	CONCRETE STRUCTURES	CU YD	191.6		191.6
50300255	CONCRETE SUPERSTRUCTURE	CU YD	638.5		638.5
50300260	BRIDGE DECK GROOVING	SQ YD	1034		1034
50300300	PROTECTIVE COAT	SQ YD	1494		1494
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1
50500505	STUD SHEAR CONNECTORS	EACH	5256		5256
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	156,210		156,210
50800515	BAR SPLICERS	EACH	100		100
50901730	BRIDGE FENCE RAILING	FOOT	442		442
51200956	FURNISHING METAL SHELL PILES 12" X 0.179"	FOOT	2071		2071
51202305	DRIVING PILES	FOOT	2071		2071
51203200	TEST PILE METAL SHELLS	EACH	2		2
51500100	NAME PLATE	EACH	1		1
52000110	PREFORMED JOINT STRIP SEAL	FOOT	131		131
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	16		16
52100520	ANCHOR BOLTS 1"	EACH	32		32
52100540	ANCHOR BOLTS 1 1/2"	EACH	16		16

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED -
CHECKED	TPP	REVISED -
DRAWN	JS	REVISED -
CHECKED	TPP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101
SCALE: NONE | SHEET NO. X OF X SHEETS | STA. | TO STA.

SUMMARY OF QUANTITIES

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	4
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			

Rev.

H:\IDOT\2009-246 PTB 153 Item 2\016-1101\Oriole_FinalEngineering\Plan Sheets\04-06-0200SUIv8.dgn 11/3/2011 4:01:47 PM

90/10 FED/ST
URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE TYPE		
				ROADWAY ~~100% STATE~~ 0004	BRIDGE SN 016-1101 ~~100% STATE~~ 0011	LIGHTING ~~100% STATE~~ 0021
550A0030	STORM SEWERS, CLASS A, TYPE I 8"	FOOT	70	70		
55100300	STORM SEWER REMOVAL 8"	FOOT	71	71		
* 56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	6	6		
58700300	CONCRETE SEALER	SQ FT	1370		1370	
59000200	EPOXY CRACK INJECTION	FOOT	6		6	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	128		128	
60250400	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	2	2		
60255500	MANHOLES TO BE ADJUSTED	EACH	6			6
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	4	4		
60260300	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	1	1		
60500040	REMOVING MANHOLES	EACH	1			1
60500050	REMOVING CATCH BASINS	EACH	6	6		
60500205	FILLING CATCH BASINS	EACH	2	2		
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	1274.0	1274.0		
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	152	152		
63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	2	2		
66400105	CHAIN LINK FENCE, 4'	FOOT	429	429		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6		
67100100	MOBILIZATION	L SUM	1	1		
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	665	665		
66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1		
66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	6	6		
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	350	350		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3866	3866		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	625	625		
72000100	SIGN PANEL - TYPE 1	SQ FT	18.8	18.8		
72000200	SIGN PANEL - TYPE 2	SQ FT	17.5	17.5		
72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	32.3	32.3		
72900200	METAL POST - TYPE B	FOOT	82	82		
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	219	219		
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3285	3285		
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1127	1127		
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	988	988		

90/10 FED/ST
URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE TYPE		
				ROADWAY ~~100% STATE~~ 0004	BRIDGE SN 016-1101 ~~100% STATE~~ 0011	LIGHTING ~~100% STATE~~ 0021
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	40	40		
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	145	145		
78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	252	252		
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	514	514		
78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	514	514		
78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	25	25		
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	38	38		
78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	28	28		
78200530	BARRIER WALL MARKERS, TYPE C	EACH	100	100		
78300100	PAVEMENT MARKING REMOVAL	SQ FT	699	699		
80400100	ELECTRICAL SERVICE INSTALLATION	EACH	1			1
* 80400200	ELECTRICAL UTILITY SERVICE CONNECTION	L SUM	1			1
81028200	UNDERGROUND CONDUIT, 2" DIA., GALVANIZED STEEL	FOOT	718			718
81028210	UNDERGROUND CONDUIT, 2 1/2" DIA., GALVANIZED STEEL	FOOT	282			282
81028220	UNDERGROUND CONDUIT, 3" DIA., GALVANIZED STEEL	FOOT	650			650
81028240	UNDERGROUND CONDUIT, 4" DIA., GALVANIZED STEEL	FOOT	702			702
81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	951			951
81101005	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL	FOOT	1270			1270
81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	427			427
81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE (6"x6" x4")	EACH	16			16
81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE (12"x10" x6")	EACH	8			8
81300910	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE (20"x20" x6")	EACH	2			2
81603090	UNIT DUCT, 600V, 3-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	302			302
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2992			2992
81702440	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 1/0	FOOT	460			460
81100700	CONDUIT ATTACHED TO STRUCTURE, 2 1/2" DIA., PVC COATED, GALVANIZED STEEL	FOOT	151			151

* SPECIAL PROVISION
** GUIDE BRIDGE SPECIAL PROVISION
*** BDE SPECIAL PROVISION

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED -
CHECKED	TPP	REVISED -
DRAWN	JS	REVISED -
CHECKED	TPP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101
SCALE: NONE | SHEET NO. X OF X SHEETS | STA. | TO STA.

SUMMARY OF QUANTITIES

Rev. Rev.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	5
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			

90/10 FED/ST
URBAN

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE TYPE ROADWAY ~~100% STATE~~ 0004	BRIDGE SN 016-1101 ~~100% STATE~~ 0011	LIGHTING ~~100% STATE~~ 0021
●	82108100	UNDERPASS LUMINAIRE, 55 WATT, LOW PRESSURE SODIUM VAPOR	EACH	16			16
●	84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	4			4
● *	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	7			7
●	A2002920	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	3	3		
●	A2005032	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	3	3		
●	A2008519	TREE, ULMUS MORTON GLOSSY (TRIUMPH ELM), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	3	3		
*	X6020084	MANHOLE, SPECIAL	EACH	1			1
● *	X0321519	CONDUIT SUPPORT SYSTEM	L SUM	1			1
● *	X8780107	CONCRETE FOUNDATION (SPECIAL)	FOOT	53.1			53.1
● *	X0324198	REMOVAL OF ASBESTOS CEMENT CONDUIT	FOOT	273		273	
*	X0326144	TACTILE DETECTABLE WARNING SURFACE	SQFT	136	136		
● *	X0326326	CABLE IN CONDUIT, TRIPLEX, 2-1/C NO. 6 AND 1-1/C NO. 8 GROUND	FOOT	2162			2162
● *	X8300001	LIGHT POLE, SPECIAL	EACH	5			5
● *	X7360510	REMOVE OVERHEAD SIGN STRUCTURE LIGHTING EQUIPMENT	L SUM	1			1
● *	X0945500	PAINT EXISTING POLE COMPLETE	EACH	4			4
Δ *	X5537600	STORM SEWERS TO BE CLEANED 8"	FOOT	120	120		
*	X6022505	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID (CITY OF CHICAGO)	EACH	5	5		
*	X6640300	CHAIN LINK FENCE REMOVAL	FOOT	457	457		
*	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		
*	X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAY)	L SUM	1	1		
*	X7030025	WET REFLECTIVE TEMPORARY TAPE, TYPE III - LETTERS AND SYMBOLS	SQ FT	144	144		
*	X7030030	WET REFLECTIVE TEMPORARY TAPE, TYPE III - 4 INCH	FOOT	9752	9752		
*	X7030045	WET REFLECTIVE TEMPORARY TAPE, TYPE III - 8 INCH	FOOT	988	988		
*	X7030050	WET REFLECTIVE TEMPORARY TAPE, TYPE III - 12 INCH	FOOT	40	40		
*	X7030055	WET REFLECTIVE TEMPORARY TAPE, TYPE III - 24 INCH	FOOT	127	127		
● *	X8950090	RELOCATE EXISTING LIGHTING CONTROLLER	EACH	1			1

90/10 FED/ST
URBAN

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE TYPE ROADWAY ~~100% STATE~~ 0004	BRIDGE SN 016-1101 ~~100% STATE~~ 0011	LIGHTING ~~100% STATE~~ 0021
*	Z0004552	APPROACH SLAB REMOVAL	SQ YD	190		190	
**	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	70		70	
*	Z0018002	DRAINAGE SCUPPERS, DS-11	EACH	4		4	
Δ *	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	2	2		
*	Z0019307	HOLES DRILLED	EACH	33			33
***	Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
*	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	154.2	154.2		
**	Z0034210	MECHANICALLY STABILIZED EARTH RETAINING WALL	SQ FT	4417		4417	
*	Z0042002	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	71	71		
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1		
***	Z0064800	SELECTIVE CLEARING	UNIT	8	8		

* SPECIAL PROVISION
** GUIDE BRIDGE SPECIAL PROVISION
*** BDE SPECIAL PROVISION

Δ NON-PART. (100% STATE)

● SPECIALTY ITEMS

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

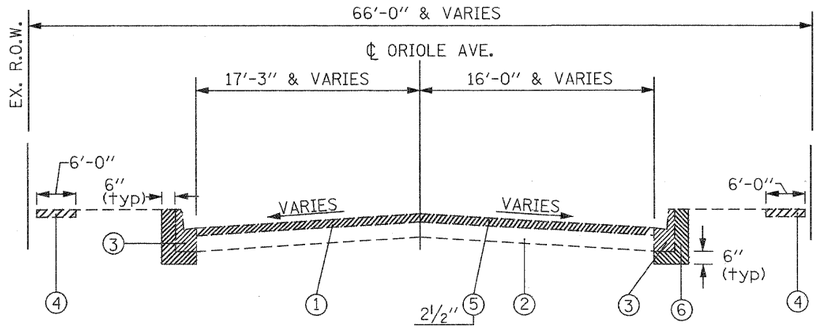
DESIGNED	TS	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	JS	REVISED	-
CHECKED	TPP	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

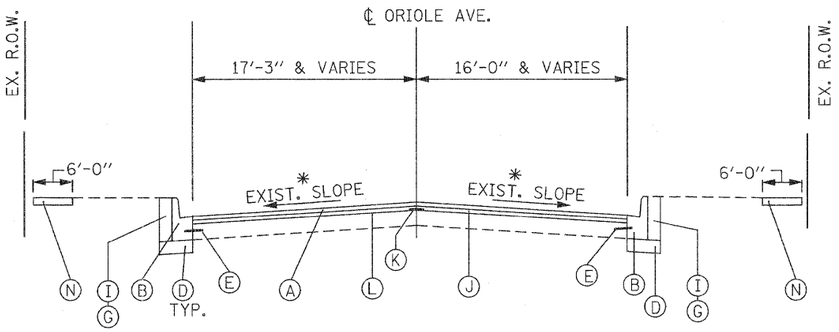
ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101
SCALE: NONE | SHEET NO. X OF X SHEETS | STA. | TO STA.

SUMMARY OF QUANTITIES

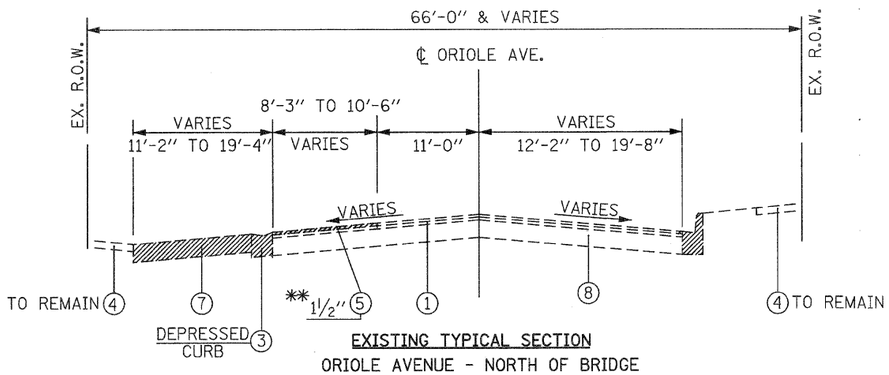
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	6
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			



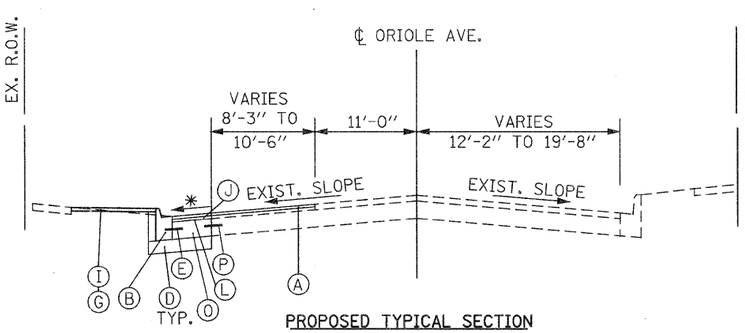
EXISTING TYPICAL SECTION
ORIOLE AVENUE - SOUTH OF BRIDGE
STA. 5+70.34 TO STA. 6+68.22
(LOOKING NORTH)



PROPOSED TYP. SECTION
ORIOLE AVENUE - SOUTH OF BRIDGE
STA. 5+70.34 TO STA. 6+68.22
(LOOKING NORTH)



EXISTING TYPICAL SECTION
ORIOLE AVENUE - NORTH OF BRIDGE
STA.10+16.45 TO STA. 11+28.08
(LOOKING NORTH)



PROPOSED TYPICAL SECTION
ORIOLE AVENUE - NORTH OF BRIDGE
STA.10+16.45 TO STA. 11+28.08
(LOOKING NORTH)

** PAID FOR AS "HOT-MIX ASPHALT SURFACE REMOVAL 1½".

REMOVAL ITEM

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @Ndes
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm)	4% @ 70 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 Gyr.
LEVELING BINDER (MACHINE METHOD) N70 (IL 9.5mm)	4% @ 70 Gyr.

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

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

FOR PERCENT OF RAP SEE DISTRICT ONE SPECIAL PROVISIONS.

✱MATCH EXISTING SLOPE

NOTES:

1. ADDITIONAL STRIP REFLECTIVE CRACK CONTROL TREATMENT PLACEMENT LOCATIONS MAY BE REQUIRED AT LANE JOINTS/ WIDENING JOINTS AND AS DIRECTED BY THE RESIDENT ENGINEER.
2. VARIABLE DEPTH MILLING WILL BE PAID FOR AS HOT-MIX ASPHALT (HMA) SURFACE REMOVAL 2½" IN SQUARE YARDS. WHEN MILLING THE EXISTING HMA SURFACE, A MINIMUM OF 1½" HMA LAYER SHOULD BE LEFT OVER THE EXISTING PCC PAVEMENT, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IF THE REMAINING HMA RESURFACING AFTER MILLING IS LESS THAN 1½" , REMOVE ALL EXISTING HMA RESURFACING TO TOP OF CONCRETE PAVEMENT.

EXISTING LEGEND

1. HMA CONCRETE OVERLAY (2½" ±)
2. P.C.C. BASE COURSE (9" ±)
3. COMBINATION CONCRETE CURB AND GUTTER (TY B-6.12)
4. PCC SIDEWALK
5. HMA SURFACE REMOVAL
6. EARTH EXCAVATION
7. PAVED SHOULDER
8. CRUSHED STONE BASE COURSE, 10" ±

PROPOSED LEGEND

A. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½"

B. COMBINATION CONCRETE CURB AND GUTTER,TYPE B-6.18

D. SUB-BASE GRANULAR MATERIAL, TYPE B 6"
PAID ONLY UNDER PCC BASE COURSE, 9"

E. NO. 6 TIE BARS (EPOXY COATED) @ 2'-0" C-C, 2'-0" LONG
COST INCLUDED IN CONCRETE CURB AND GUTTER

G. SODDING, SALT TOLERANT

I. TOPSOIL FURNISH AND PLACE, 4"

J. LEVELING BINDER (MACHINE METHOD), N70, 1"

K. STRIP REFLECTIVE CRACK CONTROL TREATMENT

L. BITUMINOUS MATERIALS (PRIME COAT)

N. PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH

O. PORTLAND CEMENT CONCRETE BASE COURSE 9"

P. NO. 8 EPOXY COATED DEFORMED TIE BARS @ 2'-0" C-C 2'-0" LONG, DRILLED AND GROUTED
COST INCLUDED IN PCC BASE 9"

BRIDGE LIMITS: STA. 6+98.00 TO STA. 8+99.50

NOTE: THE COST OF BOXED ITEMS IS INCLUDED IN THE COST OF THE WORK ITEM INVOLVED.

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

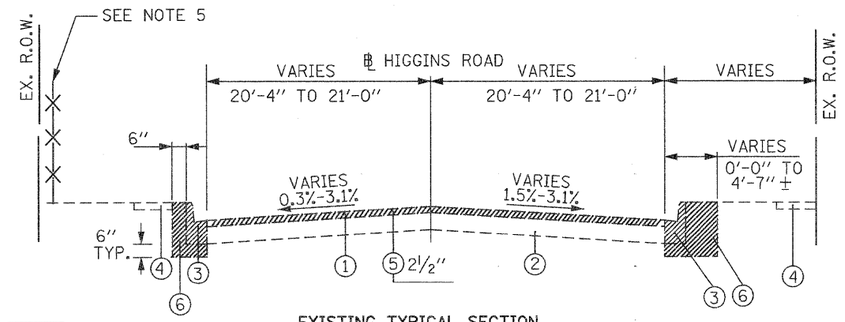
DESIGNED	TS	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	JS	REVISED	-
CHECKED	TPP	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101
SCALE: NONE | SHEET NO. X OF X SHEETS | STA. | TO STA.

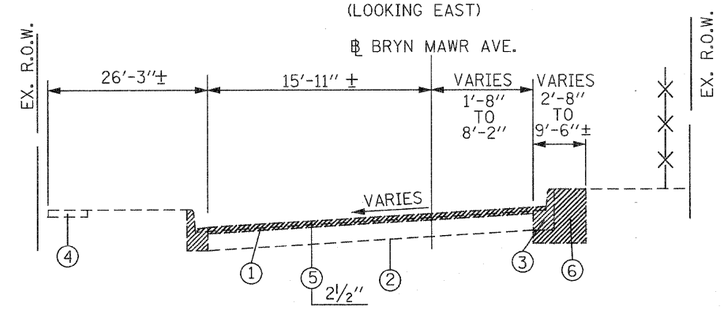
TYPICAL SECTION
ORIOLE AVENUE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	7
		CONTRACT NO. 60M79		
		ILLINOIS FED. AID PROJECT		

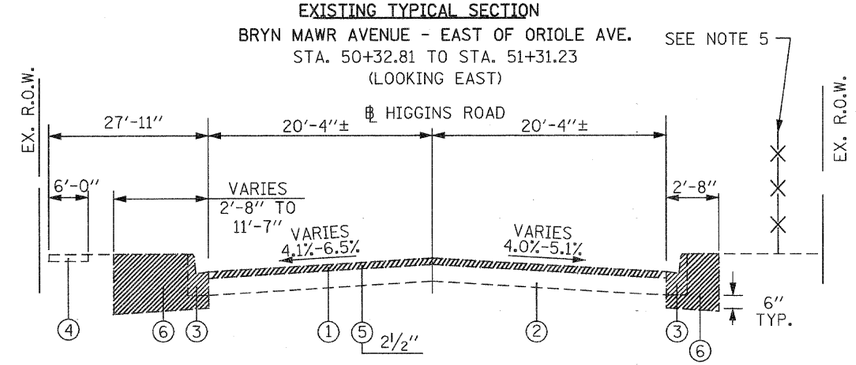


REMOVAL ITEM

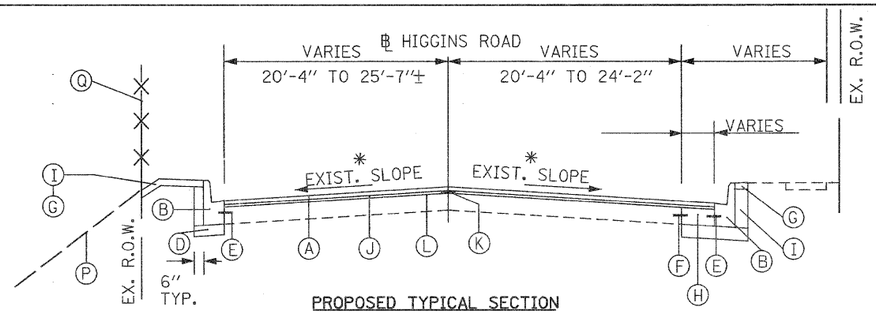
EXISTING TYPICAL SECTION
HIGGINS ROAD - EAST OF ORIOLE AVE.
STA. 50+72.11 TO STA. 51+54.20
(LOOKING EAST)



EXISTING TYPICAL SECTION
BRYN MAWR AVENUE - EAST OF ORIOLE AVE.
STA. 50+32.81 TO STA. 51+31.23
(LOOKING EAST)

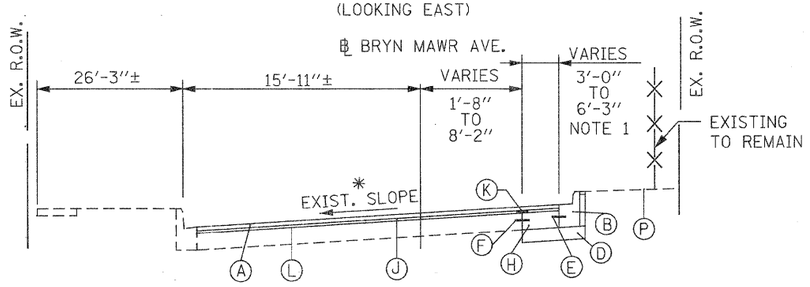


EXISTING TYPICAL SECTION
HIGGINS ROAD - WEST OF ORIOLE AVE.
STA. 46+71.92 TO STA. 49+33.87
(LOOKING EAST)

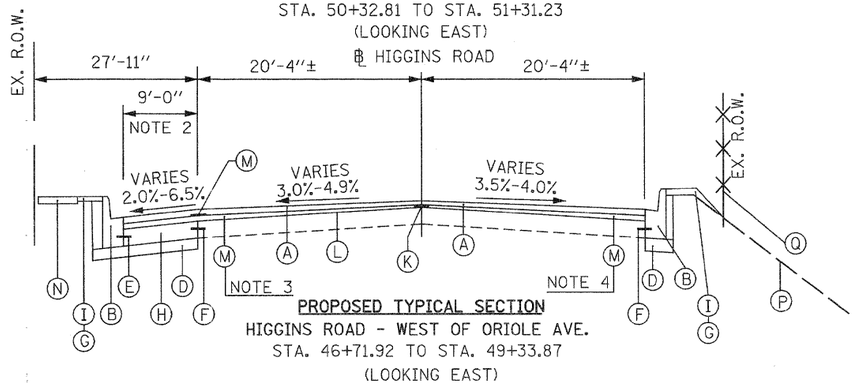


PROPOSED TYPICAL SECTION
HIGGINS ROAD - EAST OF ORIOLE AVE.
STA. 50+72.11 TO STA. 51+54.20
(LOOKING EAST)

✱ MATCH EXISTING SLOPE



PROPOSED TYPICAL SECTION
BRYN MAWR AVENUE - EAST OF ORIOLE AVE.
STA. 50+32.81 TO STA. 51+31.23
(LOOKING EAST)



PROPOSED TYPICAL SECTION
HIGGINS ROAD - WEST OF ORIOLE AVE.
STA. 46+71.92 TO STA. 49+33.87
(LOOKING EAST)

NOTES:

1. PAVEMENT WIDENING BETWEEN STA. 50+32.81 AND STA.50+67.53
2. PAVEMENT WIDENING BETWEEN STA. 46+85.67 AND STA. 48+72.33
3. DEPTH VARIES BETWEEN 2¼" (MIN.) - 8½"
4. DEPTH VARIES BETWEEN 2¼" (MIN.) - 4½"
5. FOR LIMITS OF FENCE REMOVAL, SEE ROADWAY PLANS.

EXISTING LEGEND

1. HMA CONCRETE OVERLAY (2½" ±)
2. P.C.C. BASE COURSE (9" ±)
3. COMBINATION CONCRETE CURB AND GUTTER (TY B-6.12)
4. PCC SIDEWALK
5. HMA SURFACE REMOVAL
6. EARTH EXCAVATION

PROPOSED LEGEND

A. HOT-MIX ASPHALT SURFACE COURSE,MIX "D", N70, 1½"

B. COMBINATION CONCRETE CURB AND GUTTER,TYPE B-6.18

D. SUB-BASE GRANULAR MATERIAL, TYPE B 6"
PAID ONLY UNDER PCC BASE COURSE 9"

E. NO. 6 TIE BARS (EPOXY COATED)
@ 2'-0" C-C 2'-0" LONG
COST INCLUDED IN CONCRETE CURB AND GUTTER

F. NO. 8 EPOXY COATED DEFORMED TIE BARS
@ 2'-0" C-C 2'-0" LONG, DRILLED AND GROUTED
COST INCLUDED IN PCC BASE 9"

G. SODDING, SALT TOLERANT

H. PORTLAND CEMENT CONCRETE BASE COURSE 9"

I. TOPSOIL FURNISH AND PLACE, 4"

J. LEVELING BINDER (MACHINE METHOD), N70, 1"

K. STRIP REFLECTIVE CRACK CONTROL TREATMENT

L. BITUMINOUS MATERIALS (PRIME COAT)

M. HOT-MIX ASPHALT BINDER COURSE,IL-19.0, N70
(SEE NOTES 3 & 4)

N. PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH

O. POROUS GRANULAR EMBANKMENT,SUBGRADE

P. EROSION CONTROL BLANKET

Q. CHAIN LINK FENCE, 4'

R. CHAIN LINK FENCE, 4' ATTACHED TO STRUCTURE

S. SEEDING, CLASS 2A (SEE LANDSCAPING PLAN)

THE COST OF BOXED ITEMS IS INCLUDED IN THE COST OF THE WORK ITEM INVOLVED.

FOR GENERAL NOTES, SEE SHEET "TYPICAL SECTION ORIOLE AVENUE".

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	JS	REVISED	-
CHECKED	TPP	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101
SCALE: NONE | SHEET NO. X OF X SHEETS | STA. | TO STA.

TYPICAL SECTION HIGGINS ROAD
BRYN MAWR AVENUE

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	8
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			

H:\IDOT\2009-246 PTB 153 Item 21\016-1101\Oriole_FinalEngineering\Plan Sheets\09-11-0200SC02v8.dgn 2:57:10 PM 11/28/2011

TREE REMOVAL/TEMPORARY FENCE

LOCATION	TREE REMOV 6-15	TREE REMOV OVER 15	TEMPORARY FENCE
STATION TO STATION	UNIT	UNIT	FOOT
HIGGINS RD.			
47+63.78, 32.81' LT		18	
48+12.99, 32.81' LT		16	
46+71.92 TO 48+10 RT			138
ORIOLE AVE.			
6+62.80, 59.10' RT	6		
6+67.42, 60.44' RT	6		
6+77.97, 59.62' RT		16	
6+79.35, 41.77' RT		14	
6+86.26, 41.35' RT		18	
9+21.00, 38.68' LT	12		
9+22.42, 41.54' LT	12		
9+22.72, 51.47' LT	10		
9+33.63, 66.05' LT	10		
9+36.02, 49.85' LT		24	
9+39.65, 62.43' LT	8		
TOTAL	64	106	138

EARTHWORK

LOCATION	EARTH EXCAVATION	PORUS GRAN EMB SUBGR
	CU YD	CU YD
HIGGINS ROAD(WEST LEG)		
47+04.72 TO 50+00	284.3	48.1
HIGGINS ROAD(EAST LEG)		
50+00 TO 51+64.04	111.8	22.8
ORIOLE AVE.		
9+96.85 TO 11+28.08	27.6	0
TOTAL	423.7	70.9

ST SEWER CLEANING

LOCATION	SS CLEANED
	FOOT
ORIOLE AVENUE	
9+25 TO 9+76 RT	51.0
9+61 TO 10+00 LT	39.0
6+11 TO 6+25.50 RT	14.5
6+36 TO 6+51 LT	15.0
TOTALS	119.5

ROADWAY ITEMS - BITUMINOUS ITEMS

LOCATION	TOTAL AREA	PARKING LANE AREA CITY OF CHICAGO	BIT MATLS PR CT	HMA BC IL-19.0 N70	LEV BIND MM N70	HMA SC "D" N70	AGG PR CT
STATION TO STATION	SQ YD		GALLON	TON	TON	TON	TON
HIGGINS RD (EAST & WEST LEG)							
46+71.92 TO 49+27.82	1161.8		87.1	284.7		97.6	1.7
46+85.67 TO 48+72.33	186.7	93.4	14	88.8		15.7	0.3
50+85.30 TO 51+54.20	310.2		23.3		17.4	16.1	0.5
ORIOLE AVE.							
5+70.34 TO 6+68.22	808.9		61.6		45.5	67.9	1.2
9+29.48 TO 10+16.45	800.6		60.9		45.0	67.3	1.2
10+16.45 TO 11+28.08	131.6		9.9		7.4	11.1	0.2
BRYN MAWR AVE.							
50+49.21 TO 51+31.23	198.9		14.9		11.1	16.7	0.3
I-90 (EB) SHOULDER	146.2		11.0	32.7		12.3	
I-90 (WB) SHOULDER	124.3		9.3	27.8		10.4	
TOTAL IDOT	3775.8		285.0	389.6	126.4	317.2	5.3
TOTAL CITY OF CHICAGO		93.4	7.0	44.4		7.9	0.1
TOTAL	3869.2		292.0	434.0	126.4	325.1	5.4

DRAINAGE - STRUCTURES

LOCATION	NUMBER STRUCTURE	CB TA 4D T1 FOL (CHGO)	CB ADJ NEW T1 FOL	MAN ADJ NEW T1 FCL	REM CATCH BAS	DRAINAGE STR CLEAN	INLETS ADJUST	FILL CATCH BAS
STATION		EACH	EACH	EACH	EACH	EACH	EACH	EACH
ORIOLE AVE								
50+70.19, 20.32 LT	1	1						
50+70.19, 21.02' RT	2	1						
6+57.68, 22.94' LT	3	1						
49+39.95, 21.26' RT	4	1						
5+94.29				1				
6+35.30, 41.01' LT							1	
6+44.49, 0.98' LT				1				
6+46.79, 52.49' RT					1			
6+67.78, 26.90' RT					1			
6+75.00, 20.67' LT					1			
9+24.02, 21.00' RT			1					
9+34.51, 27.56' LT					1			
9+54.20, 63.98' LT					1			
10+61.81, 21.65' LT			1					
9+87.01, 2.62' RT				1				
10+55.91, 18.04' RT						1		
HIGGINS ROAD								
47+70.22, 29.23' LT	5	1						
48+08.73, 23.95' LT				1				
48+25.13, 12.14' LT								1
48+25.13, 19.69' LT								1
50+69.23, 20.01' RT					1			
TOTALS		5	2	4	6	1	1	2

TEMPORARY CONCRETE BARRIER AND IMPACT ATTENUATORS

LOCATION	TEMP CONC BARRIER	IMP ATT TEMP NRD TL3
	FOOT	EACH
I-90 KENNEDY EXPWY		
NORTH SIDE	312.5	1
SOUTH SIDE	312.5	1
TOTALS	625	2

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED -
CHECKED	TPP	REVISED -
DRAWN	JS	REVISED -
CHECKED	TPP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

SCALE: NONE | SHEET NO. X OF X SHEETS | STA. | TO STA.

ORIOLE AVE, OVER KENNEDY EXPWY
SCHEDULE OF QUANTITIES

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	9
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			

ROADWAY ITEMS - REMOVAL

LOCATION	HMA SURF REM BUTT JT	HMA SURF REM 1 1/2	HMA SURF REM 2 1/2	SIDEWALK REM	APPROACH SLAB REM	DRIVE PAVEMENT REM	COMB CURB AND GUTTER REM	CH LK FENCE REM	PAVEMENT REM	PAVED SHLD REMOVAL
STATION TO STATION	SQ YD	SQ YD	SQ YD	SQ FT	SQ YD	SQ YD	FOOT	FOOT	SQ YD	SQ YD
HIGGINS RD.										
46+71.91	20.1									
51+54.19	20.2									
46+76.34 TO 49+27.82			1137.4							
50+85.30 TO 51+49.77			289.4							
46+71.92 TO 49+47.50 RT							275.6			
46+71.92 TO 49+27.82 LT							255.9			
50+42.65 TO 51+54.20 RT							111.5			
50+42.65 TO 51+54.20 LT							111.5			
47+39.92 LT						57.4				
46+55.42 TO 49+27.82 RT								272.4		
50+65.61 TO 51+54.20 LT								88.6		
WEST LEG LT SIDE				290.6						
50+11.48 TO 50+74.80 LT				247.6						
ORIOLE AVE.										
5+70.34	16.6									
11+28.08	4.3									
5+74.77 TO 6+47.53			598.0							
9+55.71 TO 10+16.53			550.2							
10+16.53 TO 11+23.58		122.0								
6+65.48 TO 6+82.97					86.1					
9+20.07 TO 9+40.38					104.1					
5+70.34 TO 6+09.71							49.2			
6+50.39 TO 6+75.32 RT							36.1			
5+70.34 TO 6+35.95 RT							78.7			
6+51.70 TO 6+92.71 LT							55.8			
9+29.59 TO 9+51.90 LT							42.7			
9+13.51 TO 9+47.96 LT							41.0			
49+27.82 TO 8+54.23 RT							57.4			
10+16.53 TO 11+23.16 RT							106.6			
NW CORNER-BRIDGE								52.5	6.0	
10+16.53	15.5									
SE CORNER-BRIDGE								42.7	2.1	
10+16.53 TO 11+31.36 LT										195.0
SOUTH OF BRIDGE										
5+92.98 TO 6+07.42 RT				155.0						
6+06.43 TO 6+30.71 LT				161.5						
6+51.71 TO 6+92.72 LT				329.4						
NORTH OF BRIDGE										
9+13.52 TO 9+47.97 RT				270.2						
9+29.59 LT				125.9						
10+16.54 RT				282.0						
10+19.82 LT				193.8						
BRYN MAWR AVE. 51+31.23	11.8									
50+49.21 TO 51+26.80			179.4							
50+32.81 TO 51+31.23 RT							98.4			
HIGGINS AVE.										
49+57.35	8.3									
TOTAL	96.8	122.0	2754.4	2056.0	190.2	57.4	1320.4	456.2	8.1	195.0

ROADWAY ITEMS - EXCEPT BITUMINOUS ITEMS

LOCATION			SUB GRAN MAT B 6	PCC BSE CSE 9		PCC CONC SIDEWALK 5	COMB CC&G TB 6.18	CH LK FENCE 4
STATION TO STATION			SQ YD	SQ YD		SQ FT	FOOT	FOOT
HIGGINS RD.								
46+85.67L	TO	48+72.33L	186.7	186.7			186.7	
46+71.92L	TO	46+85.67L					13.8	
48+72.33L	TO	49+27.82L					55.5	
49+27.82L	TO	49+33.96L					6.2	
46+71.92R	TO	49+27.82R					255.9	
50+72.11L	TO	51+54.20L					82.1	
50+46.94R	TO	50+86.25R					39.3	
50+86.25R	TO	51+54.20R					68.0	
PARAPET	TO	51+54.20L						130.1
46+71.92R	TO	PARAPET						299.2
47+09.53L	TO	48+92.76L				164.1		
ORIOLE AVE.								
NORTH & SOUTH OF BRIDGE			216.8	216.8				
5+70.34 R	TO	5+89.53 R					19.0	
5+89.53 R	TO	6+05.58 R					30.2	
5+70.34 L	TO	6+35.96 L					78.1	
SE OF BRIDGE							50.0	
SW OF BRIDGE							28.1	
NE OF BRIDGE							22.6	
NW OF BRIDGE							46.0	
10+00 L	TO	10+24.54 L					39.2	
10+24.54 L	TO	11+16.77 L					92.2	
ORIOLE/HIGGINS NE CORNER						249.9		
ORIOLE/HIGGINS SE CORNER						113.9		
ORIOLE/HIGGINS SW CORNER						151.1		
ORIOLE/HIGGINS NW CORNER						133.4		
ORIOLE/HIGGINS NW CORNER						171.8		
ORIOLE/HIGGINS SW CORNER						218.8		
ORIOLE/BRYN MAWR SW CORNER						227.7		
ORIOLE/BRYN MAWR SE CORNER						105.5		
NORTH OF BRIDGE								
SOUTH OF BRIDGE								
ORIOLE/BRYN MAWR NE CORNER							60.8	
BRYN MAWR AVE.								
50+26.77 R	TO	50+67.53 R	21.0	21.0				
50+31.14 R	TO	51+31.23 R					100.1	
I-90 (EB)								
7+02.09 R	TO	7+28 L	146.2					
I-90 (WB)								
8+71.14 R	TO	8+96.75 L	124.3					
		TOTAL	695.4	424.5		1536.2	1273.8	429.3
		IDOT	602	331.1				
* CITY OF CHICAGO			93.4	93.4				

* PARKING LANE

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	JS	REVISED	-
CHECKED	TPP	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

SCALE: NONE | SHEET NO. X OF X SHEETS | STA. | TO STA.

ORIOLE AVE, OVER KENNEDY EXPWY
SCHEDULE OF QUANTITIES

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	10
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			

LANDSCAPING ITEMS

LOCATION	TOP SOIL F & P4	SEEDING CL 2A	NITROGEN FERT NUTR	PHOSPHORUS FERT NUTR	POTASSIUM FERT NUTR	EROSION CONTR BLANKET	SODDING, SALT TOLERANT	SUPPLE WATERING
	SQ YD	ACRE	POUND	POUND	POUND	SQ YD	SQ YD	UNIT
HIGGINS RD(WEST LEG)	1255.8	0.185	16.65	16.65	16.65	847.0	358.8	9.0
HIGGINS RD(EAST LEG)	707.6	0.123	11.07	11.07	11.07	598.0	119.6	3.0
ORIOLE AVENUE	1021.0	0.156	14.04	14.04	14.04	755.6	265.6	6.7
TOTAL	2994.4	0.464	41.76	41.76	41.76	2250.6	744.0	18.7

STRIP REFLECTIVE CRACK CONTROL TREATMENT

HIGGINS RD			FOOT
46+85.67 LT	TO	48+72.33 LT	187
49+21.26 LT	TO	49+60.63 LT	40
50+29.52 RT	TO	50+91.86 RT	62
46+71.91 CL	TO	50+00 CL	328
50+00 CL	TO	51+54.20 CL	154
BRYN MAWR AVE			
50+22.96 RT	TO	50+68.89 RT	46
ORIOLE AVE			
10+49.34 LT	TO	11+64.17 LT	115
5+70.34 CL	TO	6+49.08 CL	79
10+16.45 LL	TO	11+28.08 LL	112
10+16.45 EOP	TO	11+28.08 EOP	112
TOTAL			1235

DRAINAGE - STORM SEWER & TRENCH BACKFILL

LOCATION			STRUCTURE FROM STRUCTURE TO	STORM SEW CL A 18	STORM SEWER REM 8	TRENCH BACKFILL
				FOOT	FOOT	CU YD
HIGGINS ROAD						
47+70.22	TO	exist 1ft	5 TO EX	22		16.2
49+39.57	TO	exist	4 TO EX	5.0	5.0	1.4
50+70.23	TO	exist 1ft	1 TO EX	22.0		7.7
50+70.23	TO	exist 1ft	2 TO EX	5.0		1.4
50+70.23	TO	exist			5.0	
ORIOLE AVENUE						
6+46.79	TO	exist			27.9	
6+57.74	TO	exist 1ft	3 TO EX	16.0		5.8
6+43.18	TO	6+66.14			32.8	
		TOTAL		70.0	70.7	32.5

TEMPORARY PAVEMENT MARKINGS AND PAVEMENT MARKING REMOVAL

LOCATION	WET REF TEM TP T3 L&S	WET REF TEM TP T3 4	WET REF TEM TP T3 8	WET REF TEM TP T3 12	WET REF TEM TTP T3 24	PAVT MARKING REMOVAL	WORK ZONE PAVT MKG REMOVAL
	SQ FT	FOOT	FOOT	FOOT	FOOT	SQ FT	SQ FT
HIGGINS RD(WEST LEG)							
STAGE 1	15.2	1822.0	0.0	0.0	10.0	326.2	636.5
STAGE 2	0.0	1822.0	0.0	0.0	10.0	0.0	621.3
STAGE 3	27.5	1862.0	0.0	0.0	10.0	0.0	662.0
STAGE 4	0.0	0.0	0.0	0.0	0.0	0.0	456.8
HIGGINS RD(EAST LEG)							
STAGE 1	15.2	1266.0	0.0	0.0	10.0	269.1	437.8
STAGE 2	0.0	1266.0	0.0	0.0	10.0	0.0	0.0
STAGE 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STAGE 4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORIOLE AVENUE							
STAGE 1	30.4	1092.0	0.0	0.0	14.0	103.3	418.8
STAGE 2	0.0	566.0	0.0	0.0	22.0	0.0	230.8
STAGE 3	27.5	180.0	0.0	0.0	10.0	0.0	106.9
STAGE 4	0.0	0.0	0.0	0.0	66.0	0.0	0.0
BRYN MAWR AVENUE							
STAGE 1	27.5	0.0	0.0	0.0	10.0	0.0	137.3
STAGE 2	0.0	279.0	0.0	0.0	10.0	0.0	79.4
STAGE 3	0.0	427.0	0.0	0.0	11.0	0.0	78.1
STAGE 4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I - 90	0.0	0.0	988.0	40.0	0.0	0.0	0.0
TOTALS	143.3	9752.0	988.0	40.0	127.0	698.6	3865.7

PERMANENT PAVEMENT MARKINGS AND REFLECTIVE PAVEMENT MARKERS

LOCATION	THPL PVT MK LTR & SYM	THPL PVT MK LINE 4	THPL PVT MK LINE 6	THPL PVT MK LINE 24	RAISED REFL PAVT MKR	RAISED REFL PAVT MKR BR	POLYUREA PM TYPE 1 LTR-SY	POLYUREA PM T1 LN 4	POLYUREA PM T1 LN 6	POLYUREA PM T1 LN 24
	SQ FT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH
ORIOLE AVENUE										
"ONLY & ARROW" SIGN							145.6			
"LEFT / THRU ARROW" SIGN							106.4			
FROM STA. 10+18.83 TO NORTH SW	26.6									
FROM STA. 6+68.43 TO STA. 9+25.32								513.8		
OUTSIDE LIMITS OF PROJECT		315.0								
WITHIN LIMITS OF PROJECT										
FROM STA. 9+25.32 TO STA. 5+89.37		38.1								
FROM STA. 10+16.53 TO STA. 11+28.08		223.1								
FROM STA. 6+68.43 TO STA. 9+25.32									513.8	
FROM STA. 10+16.53 TO STA. 11+28.08			111.5							
SOUTH X-WALK			78.7							
NORTH X-WALK			98.4							
STOP BAR STA. 6+68.43, STA. 9+25.32										24.6
FROM STA. 10+18.83 & NORTH X-WALK				22.0						
FROM STA. 5+89.37 & SOUTH X-WALK				174.0						
FROM STA. 10+18.83 TO STA. 11+28.08					6.0					
FROM STA. 6+68.43, STA. 9+25.32						28.0				
HIGGINS ROAD (WEST LEG)										
FROM STA. 46+71.91 TO STA. 49+41.6	87.5									
OUTSIDE LIMITS OF PROJECT		992.5								
WITHIN LIMITS OF PROJECT										
FROM STA. 46+71.91 TO STA. 49+41.60		654.2								
FROM STA. 46+71.91 TO STA. 49+41.60			269.7							
STA. 49+40.95 X-WALK			111.5							
31m TURN LANE TAPER			25.6							
FROM STA. 49+41.60 & X-WALK				20.3						
FROM STA. 46+71.92 TO STA. 49+41.60					22.0					
HIGGINS ROAD (EAST LEG)										
FROM STA. 50+48.23 TO 51+54.20	51.1									
OUTSIDE LIMITS OF PROJECT		820.2								
WITHIN LIMITS OF PROJECT										
FROM STA. 50+48.22 TO STA. 51+54.19										
LANE LINE 10' DASH-30' SKIP		29.5								
CENTERLINE		211.9								
FROM STA. 50+48.22 TO STA. 51+54.19			106.0							
STA. 50+45.93 X-WALK			118.1							
100' TURN LANE TAPER			25.6							
FROM STA. 50+48.22 & X-WALK				20.3						
FROM STA. 50+48.22 TO STA. 51+54.19					10.0					
BRYN MAWR AVE.										
FROM STA. 50+40.35 TO STA. 51+31.23	53.2									
FROM STA. 50+40.35 TO STA. 51+31.23			90.9							
X-WALK			51.2							
FROM STA. 50+40.35 TO STA. 51+31.23				22.3						
HIGGINS AVE.										
X-WALK			39.4							
X-WALK AND TOP BAR				18.1						
TOTALS	218.4	3284.5	1126.4	145.0	38.0	28.0	252.0	513.8	513.8	24.6

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	JS	REVISED	-
CHECKED	TPP	REVISED	-

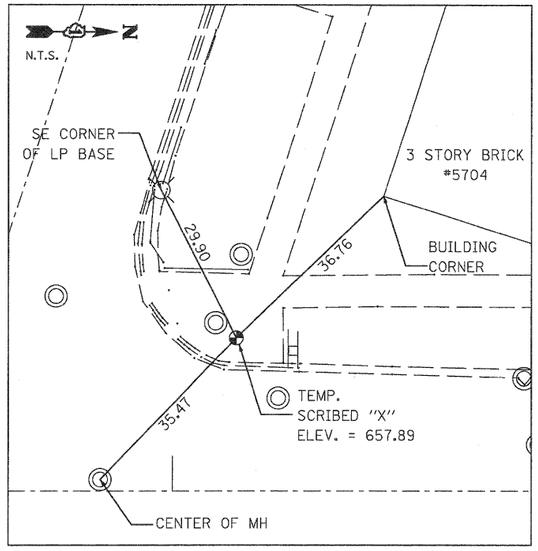
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101
SCALE: NONE | SHEET NO. X OF X SHEETS | STA. | TO STA.

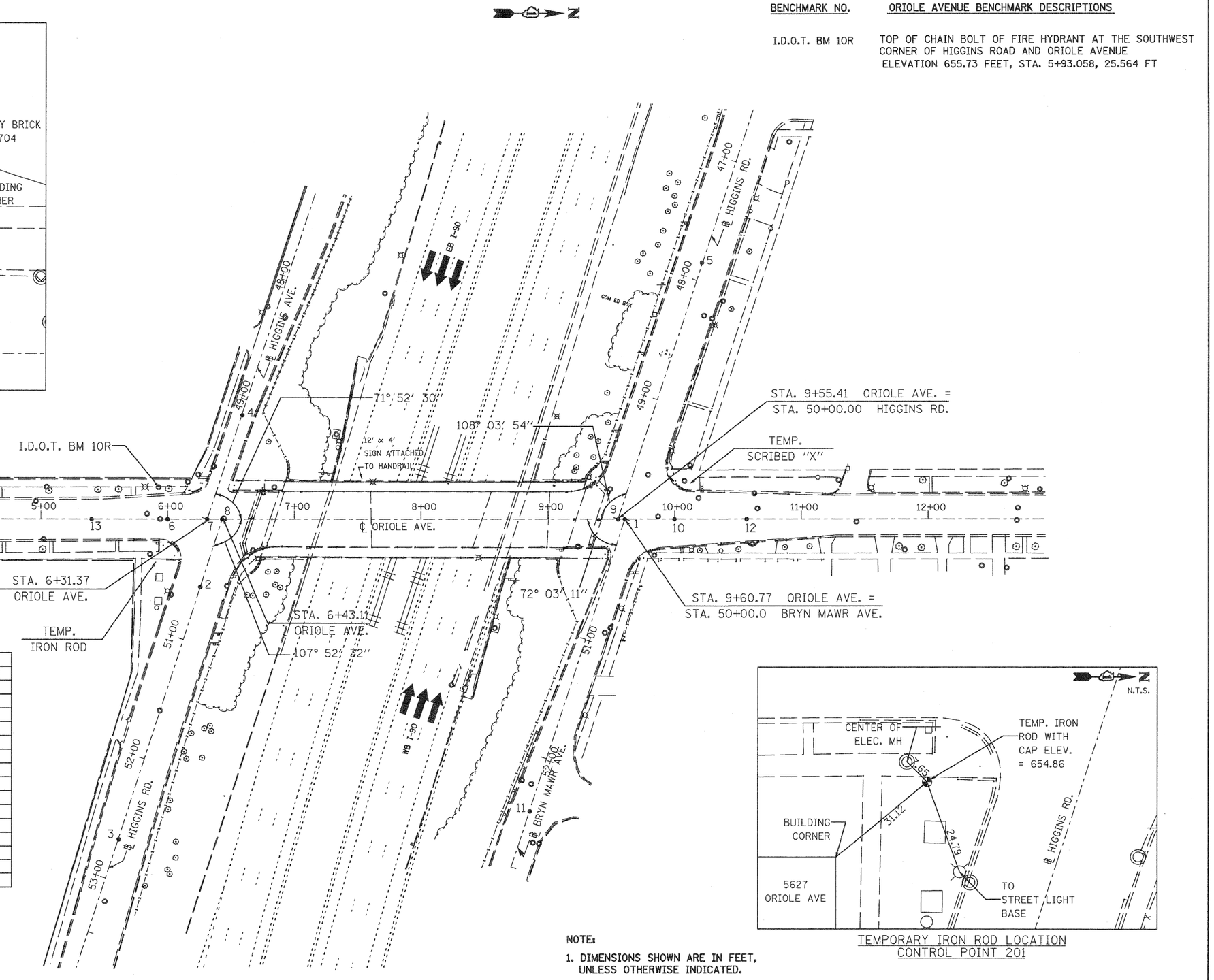
ORIOLE AVE, OVER KENNEDY EXPWY
SCHEDULE OF QUANTITIES

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	11
		CONTRACT NO. 60M79		
	ILLINOIS	FED. AID PROJECT		

BENCHMARK NO.	ORIOLE AVENUE BENCHMARK DESCRIPTIONS
I.D.O.T. BM 10R	TOP OF CHAIN BOLT OF FIRE HYDRANT AT THE SOUTHWEST CORNER OF HIGGINS ROAD AND ORIOLE AVENUE ELEVATION 655.73 FEET, STA. 5+93.058, 25.564 FT



TEMPORARY SCRIBED "X" LOCATION
CONTROL POINT 202



ALIGNMENT TIE DATA				
POINT #	NORTHING	EASTING	STATION	OFFSET (FT)
201	1124710.69	1936633.51	5+91.47	32.94 R
202	1124650.67	1937053.55	10+11.42	27.67 L
1	1124678.26	1937002.85	9+60.77	0.00
2	1124731.30	1936667.87	6+25.86	53.50 R
3	1125006.76	1936578.60	5+36.96	88.89 R
4	1124580.15	1936705.58	6+63.36	97.70 L
5	1124460.49	1937068.87	10+26.48	217.87 L
6	1124677.76	1936642.09	6+00.00	0.00
7	1124677.81	1936673.46	6+31.37	0.00
8	1124677.82	1936685.20	6+43.11	0.00
9	1124678.26	1936997.50	9+55.42	0.00
10	1124678.32	1937042.09	10+00.01	0.00
11	1124954.92	1936912.81	8+71.10	276.78 R
12	1124678.38	1937088.09	10+46.01	0.00
13	1124677.64	1936548.49	5+06.40	0.00

TEMPORARY IRON ROD LOCATION
CONTROL POINT 201

NOTE:

1. DIMENSIONS SHOWN ARE IN FEET, UNLESS OTHERWISE INDICATED.

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

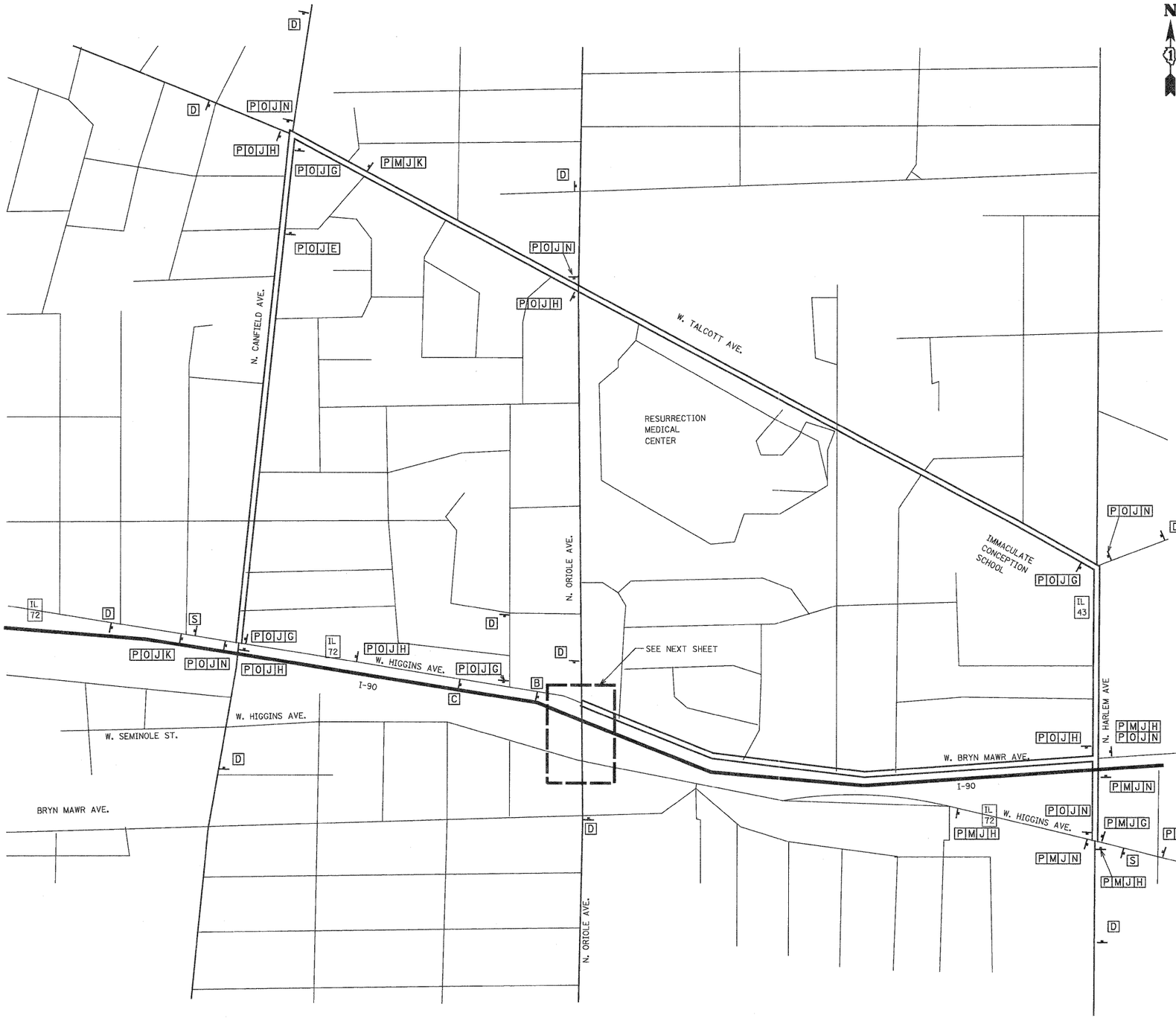
DESIGNED	TS	REVISED -
CHECKED	TPP	REVISED -
DRAWN	JS	REVISED -
CHECKED	TPP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101
SCALE: 1" = 40' | SHEET NO. X OF X SHEETS | STA. | TO STA.

ALIGNMENT, TIES AND BENCHMARKS
ORIOLE AVE. AT I-90

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	12
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			



SIGN LEGEND

B	ROAD CLOSED 500 FT — W20-3-0	K	M5-1L
C	ROAD CLOSED AHEAD — W20-3-0	M	WEST — M3-4
D	DETOUR AHEAD — W20-2	N	M6-1
E	M5-1R	O	EAST — M3-2
G	M6-1	P	DETOUR — M4-8
H	M6-3	S	END DETOUR — M4-8a
J	IL 72 — M1-50		DETOUR ROUTE

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED - TP	REVISED -	
CHECKED - JL	REVISED -	
DRAWN - MR	REVISED -	
CHECKED - TP	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

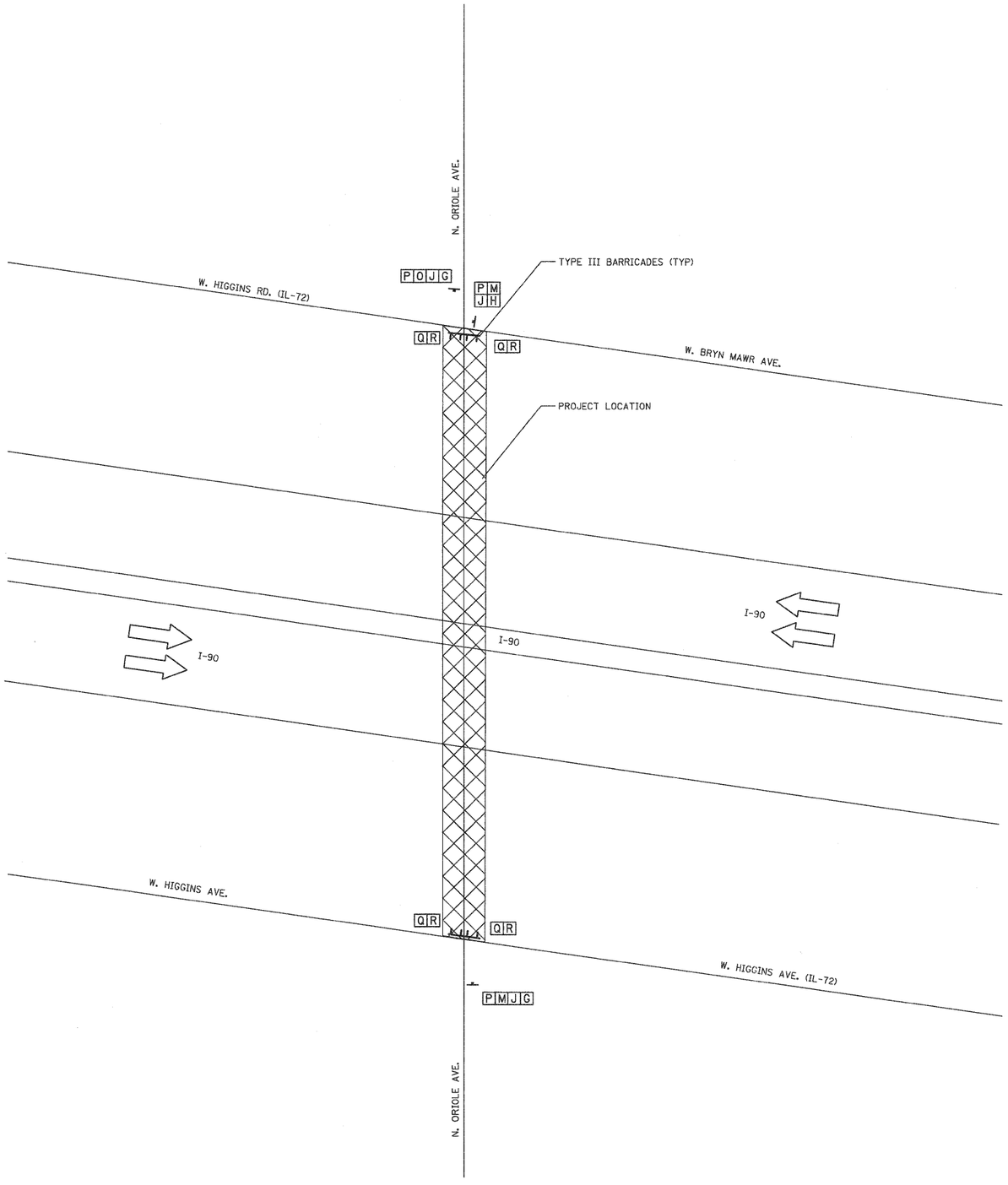
ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

SCALE: 1"=300' | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

DETOUR PLAN IL 72

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	13
		CONTRACT NO. 60M79		
	ILLINOIS	FED. AID PROJECT		

H:\IDOT\2009-246 PTB 153 Item 2\016-1101\Oriole_FinalEngineering\Plan Sheets\13-Detourlv8.dgn 4:17:16 PM 11/3/2011



N

SIGN LEGEND

G		M6-1
H		M6-3
J		M1-50
M		M3-4
O		M3-2
P		M4-8
Q		R11-4
R		M4-10R

ABNA DESIGN FIRM REG. 184.002117	9901 S. Western Ave. Chicago, IL 60643 Ph. 773-881-4788 F: 773.239.3728	DESIGNED - TP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ORIOLE AVENUE AT I-90 STRUCTURE NO. 016-1101
		CHECKED - JL	REVISED -		
		DRAWN - MR	REVISED -		SCALE: 1"=300' SHEET NO. 1 OF 1 SHEETS STA. TO STA.
		CHECKED - TP	REVISED -		

DETOUR PLAN IL 72

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	14
		CONTRACT NO. 60M79		
		ILLINOIS FED. AID PROJECT		

H:\IDOT\2009-246 PTB 153 Item 21\016-1101\Oriole_FinalEngineering\Plan Sheets\14-Detour2v8.dgn 4:18:47 PM 11/3/2011

SUGGESTED SEQUENCE OF CONSTRUCTION

STAGE 1

1. SETUP TRAFFIC CONTROL ON THE EASTBOUND AND WESTBOUND TRAFFIC LANES ON THE KENNEDY EXPRESSWAY. MAINTAIN THREE LANES OF TRAFFIC IN EACH DIRECTION AND CLOSE THE OUTSIDE SHOULDERS. PLACE TEMPORARY CONCRETE BARRIER ALONG THE OUTSIDE SHOULDERS FOR THE ENTIRE DURATION OF CONSTRUCTION.
2. SETUP ORIOLE AVENUE DETOUR. REFER TO DETOUR PLAN.
3. a) ON HIGGINS ROAD (WEST LEG), MOVE EASTBOUND TRAFFIC ONTO THE NORTH HALF OF PAVEMENT AS SHOWN IN PLANS. PROVIDE TWO 10'-0" LANES OF TRAFFIC; ONE TRAFFIC LANE EACH FOR THE EASTBOUND AND WESTBOUND TRAFFIC.

   b) ON HIGGINS ROAD (EAST LEG), MOVE WESTBOUND TRAFFIC ONTO THE SOUTH HALF OF PAVEMENT AS SHOWN IN PLANS. PROVIDE TWO 10'-0" LANES OF TRAFFIC; ONE TRAFFIC LANE EACH FOR THE EASTBOUND AND WESTBOUND TRAFFIC.

   c) ON BRYN MAWR AVENUE MOVE TRAFFIC TO NORTH HALF OF PAVEMENT AS SHOWN IN THE PLANS. PROVIDE ONE 10'-0" LANE.

   d) ON ORIOLE AVENUE SOUTH AND NORTH OF BRIDGE SHIFT TRAFFIC TO THE NORTH HALF OF THE PAVEMENT AS SHOWN, PROVIDE TWO 11'-0" LANES OF TRAFFIC: ONE TRAFFIC LANE EACH FOR THE NORTHBOUND AND SOUTHBOUND TRAFFIC.

   e) MILL AND RESURFACE THE EAST HALF OF ORIOLE AVENUE FROM THE BEGINNING OF PROJECT TO THE END OF PROJECT. THIS OPERATION SHALL BE PERFORMED UTILIZING STANDARD 701501-06.

   f) PERFORM IMPROVEMENTS ON THE SOUTH SIDE OF HIGGINS ROAD (WEST LEG) AND NORTH SIDE OF HIGGINS ROAD (EAST LEG).

   g) EAST AND WEST SIDEWALK ON THE BRIDGE SHALL BE CLOSED TO PEDESTRIAN TRAFFIC.

   h) WIDEN & RESURFACE SOUTH SIDE OF BRYN MAWR AVENUE.

STAGE 2

1. ON HIGGINS ROAD (EAST LEG) MOVE TRAFFIC ONTO THE NORTH HALF OF PAVEMENT, WITH ONE LANE OF TRAFFIC IN EACH OF THE EASTBOUND AND WESTBOUND DIRECTIONS. TRAFFIC CONTROL ON HIGGINS ROAD (WEST LEG) SHALL REMAIN THE SAME AS IN STAGE 1.
2. ON THE WEST SIDE OF ORIOLE AVENUE NORTH OF THE BRIDGE, PERFORM PAVEMENT WIDENING AND RESURFACING. MILL AND RESURFACE THE SOUTH SIDE OF THE EAST AND WEST LEGS OF HIGGINS ROAD.

SUGGESTED SEQUENCE OF CONSTRUCTION, CONT'D

STAGE 3

1. CLOSE TWO LANES OF TRAFFIC ON HIGGINS ROAD (WEST LEG) AS SHOWN IN MAINTENANCE OF TRAFFIC PLANS. PROVIDE TWO 10'-0" LANES OF TRAFFIC; ONE TRAFFIC LANE EACH FOR THE EASTBOUND AND WESTBOUND TRAFFIC.
2. ON THE WEST LEG OF HIGGINS ROAD CONSTRUCT THE PARKING LANE IMPROVEMENTS, AND RESURFACE NORTH HALF OF ROADWAY.
3. PERFORM IMPROVEMENTS ON NORTH SIDE OF BRYN MAWR.
4. COMPLETE ALL IMPROVEMENTS INCLUDING LANDSCAPING AND PAVEMENT MARKING.
5. REMOVE ALL TRAFFIC CONTROL ON THE KENNEDY EXPRESSWAY AND WITHIN PROJECT LIMITS. ALL LANES OF TRAFFIC SHALL RETURN TO THE NORMAL TRAFFIC PATTERN.

TRAFFIC CONTROL GENERAL NOTES

1. TRAFFIC CONTROL AS DESCRIBED HEREIN DURING STAGE 1, 2, AND 3 WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".
2. TRAFFIC CONTROL SURVEILLANCE FOR ORIOLE AVENUE IS INCLUDED IN THE COST OF "TRAFFIC CONTROL SURVEILLANCE."
3. SEE SPECIAL PROVISIONS FOR "CTA FLAGGING AND COORDINATION" FOR ADDITIONAL REQUIREMENTS AND RESTRICTIONS FOR WORK NEAR AND/OR ON THE CTA PROPERTY.
4. PEDESTRIAN ACCESS ALONG HIGGINS ROAD, BRYN MAWR, AND INTERSECTIONS WILL BE MAINTAINED AT ALL TIMES (STANDARD 701801-04).
5. IDOT STANDARDS USED FOR MILLING AND RESURFACING SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "TRAFFIC CONTROL AND PROTECTION (SPECIAL)"
6. ALL SIGNS, EXCEPT AS NOTED, WITHIN THE CONSTRUCTIONS LIMITS THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS SHALL BE REMOVED, STORED AND REPLACED AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. REFER TO ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
7. ALL SIGNING AND BARRICADES PER IMUTCD.
8. RESTRICT PARKING IN CONSTRUCTION ZONE.
9. FOR DETAILS NOT SHOWN, SEE IDOT HIGHWAY STANDARDS IN THE PLANS.
10. OMIT BARRICADES TO ALLOW TRAFFIC FLOW AT SIDE STREETS. PLACE W20-1 AND M6-4 SIGNS ON ALL SIDE STREET WITHIN CONSTRUCTION ZONE.
11. ALL PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH THE MAINTENANCE OF TRAFFIC SHALL BE REMOVED AND RESTORED BACK TO ITS ORIGINAL CONDITION AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE
- CONSTRUCTION SIGN
- MONODIRECTIONAL FLASHING BEACON (OPTIONAL UNLESS HIGH INTENSITY SHEETING IS UTILIZED)
- PAVEMENT MARKING REMOVAL
- FLASHING ARROW BOARD
- BARRICADE TYPE III (APPROPRIATE NO. OF BARRICADES NEEDED FOR COMPLETE & PROPER CLOSURE AS APPROVED BY THE ENGINEER)

NOTE: THE COST OF BOXED ITEM IS INCLUDED IN THE COST OF THE WORK ITEM INVOLVED.

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

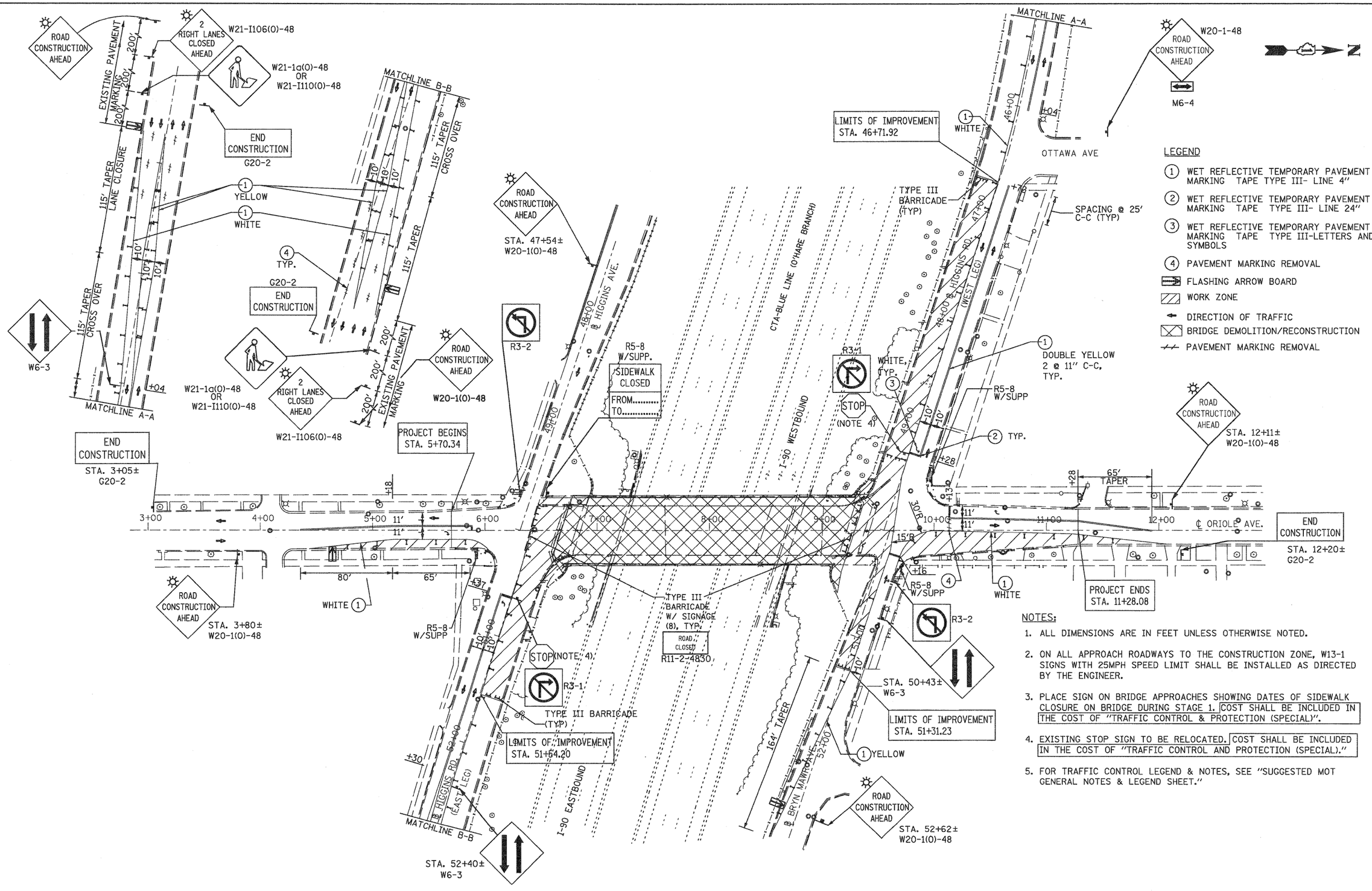
DESIGNED	TS	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	JS	REVISED	-
CHECKED	TPP	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101
SCALE: NONE | SHEET NO. X OF X SHEETS | STA. | TO STA.

MAINTENANCE OF TRAFFIC SEQ. OF CONSTR. GEN. NOTES & LEGEND

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	15
		CONTRACT NO. 60M79		
	ILLINOIS	FED. AID PROJECT		



LEGEND

1. WET REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE TYPE III- LINE 4"
2. WET REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE TYPE III- LINE 24"
3. WET REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE TYPE III-LETTERS AND SYMBOLS
4. PAVEMENT MARKING REMOVAL

FLASHING ARROW BOARD
WORK ZONE
DIRECTION OF TRAFFIC
BRIDGE DEMOLITION/RECONSTRUCTION
PAVEMENT MARKING REMOVAL

NOTES:

1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
2. ON ALL APPROACH ROADWAYS TO THE CONSTRUCTION ZONE, W13-1 SIGNS WITH 25MPH SPEED LIMIT SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.
3. PLACE SIGN ON BRIDGE APPROACHES SHOWING DATES OF SIDEWALK CLOSURE ON BRIDGE DURING STAGE 1. COST SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL & PROTECTION (SPECIAL)".
4. EXISTING STOP SIGN TO BE RELOCATED. COST SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION (SPECIAL)."
5. FOR TRAFFIC CONTROL LEGEND & NOTES, SEE "SUGGESTED MOT GENERAL NOTES & LEGEND SHEET."

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	JS	REVISED	-
CHECKED	TPP	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

SCALE: 1" = 40' | SHEET NO. OF SHEETS | STA. TO STA.

SUG. MAINTENANCE OF TRAFFIC
STAGE 1 ORIOLE AVENUE AT I-90

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	16
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			

H:\IDOT\2009-246 PTB 153 Item 21\016-1101\Orlole_FinalEngineering\Plan Sheets\17-020cmt03v8.dgn 11/3/2011 4:24:21 PM

W20-1(0)-48 ROAD CONSTRUCTION AHEAD

W21-1106(0)-48 2 RIGHT LANE CLOSED AHEAD

W21-1a(0)-48 OR W21-1110(0)-48

END CONSTRUCTION G20-2

EXISTING PAVEMENT MARKING

115' TAPER LANE CLOSURE

115' TAPER CROSS OVER

MATCHLINE A-A

MATCHLINE B-B

115' TAPER

1 YELLOW

1 WHITE

W21-1a(0)-48 OR W21-1110(0)-48

LEFT LANE CLOSED AHEAD W21-1106(0)-48

END CONSTRUCTION STA. 3+05± G20-2

ROAD CONSTRUCTION AHEAD W20-1(0)-48

KEEP RIGHT

R3-2

82' TAPER

65'

11'

5'

1 YELLOW

ROAD CONSTRUCTION AHEAD STA. 3+80± W20-1(0)-48

STA. 4+73± W6-3

STOP (NOTE 3)

R3-1

3 WHITE, (TYP)

ROAD CONSTRUCTION AHEAD STA. 47+54± W20-1(0)-48

STA. 48+69± W1-4L

W6-3

STA. 52+40± W6-3

MATCHLINE B-B

@ HIGGINS AVE.

CTA-BLUE LINE(O'HARE BRANCH)

I-90 WESTBOUND

I-90 EASTBOUND

TYPE III BARRICADE W/ SIGNAGE (8), TYP.

ROAD CLOSED R11-2-4830

@ HIGGINS RD. (EAST LEG)

@ BRYN MAWR AVE.

ROAD CONSTRUCTION AHEAD STA. 52+62± W20-1(0)-48

MATCHLINE A-A

TYPE III BARRICADE (TYP)

OTTAWA AVE

@ HIGGINS RD. (WEST LEG)

R3-1

STOP (NOTE 3)

2 WHITE (TYP.)

@ ORIOLE AVE.

1 WHITE

1 DOUBLE YELLOW 2 @ 11" C-C (TYP.)

R3-2

STA. 50+40± W6-3

1 WHITE

SPACING @ 25' C-C (TYP)

ROAD CONSTRUCTION AHEAD STA. 12+10± W20-1(0)-48

END CONSTRUCTION STA. 12+20± G20-2

W20-1-48 ROAD CONSTRUCTION AHEAD

LEGEND

1. WET REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE TYPE III- LINE 4"
2. WET REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE TYPE III- LINE 24"
3. WET REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE TYPE III-LETTERS AND SYMBOLS

BRIDGE DEMOLITION/RECONSTRUCTION

FLASHING ARROW BOARD

WORK ZONE

DIRECTION OF TRAFFIC

NOTES:

1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
2. ON ALL APPROACH ROADWAYS TO THE CONSTRUCTION ZONE, W13-1 SIGNS WITH 25MPH SPEED LIMIT SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.
3. EXISTING STOP SIGN TO BE RELOCATED. COST SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION (SPECIAL)."
4. FOR TRAFFIC CONTROL LEGEND & NOTES, SEE "SUGGESTED MOT GENERAL NOTES & LEGEND SHEET."

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	JS	REVISED	-
CHECKED	TPP	REVISED	-

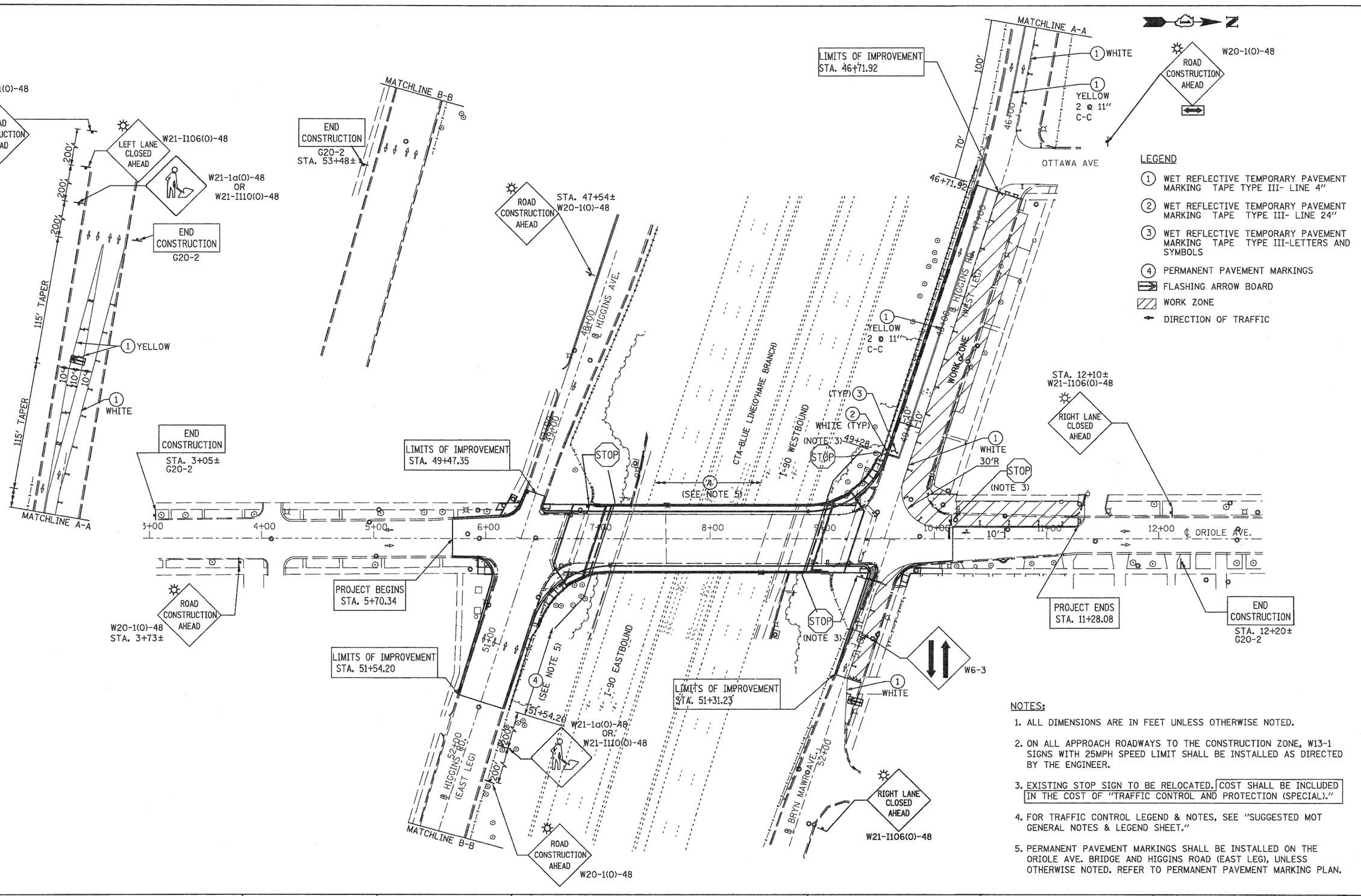
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101
SCALE: 1" = 40' | SHEET NO. X OF X SHEETS | STA. | TO STA.

SUG. MAINTENANCE OF TRAFFIC
STAGE 2 ORIOLE AVENUE AT I-90

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	17
		CONTRACT NO. 60M79		
	ILLINOIS	FED. AID PROJECT		

H:\IDOT\2009-246 PTB 153 Item 21\016-1101\Oriole_FinalEngineering\Plan Sheets\18-020cmt04v8.dgn 11/3/2011 4:25:41 PM



NOTES:

1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
2. ON ALL APPROACH ROADWAYS TO THE CONSTRUCTION ZONE, W13-1 SIGNS WITH 25MPH SPEED LIMIT SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.
3. EXISTING STOP SIGN TO BE RELOCATED. COST SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION (SPECIAL)."
4. FOR TRAFFIC CONTROL LEGEND & NOTES, SEE "SUGGESTED MOT GENERAL NOTES & LEGEND SHEET."
5. PERMANENT PAVEMENT MARKINGS SHALL BE INSTALLED ON THE ORIOLE AVE. BRIDGE AND HIGGINS ROAD (EAST LEG), UNLESS OTHERWISE NOTED. REFER TO PERMANENT PAVEMENT MARKING PLAN.

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	JS	REVISED	-
CHECKED	TPP	REVISED	-

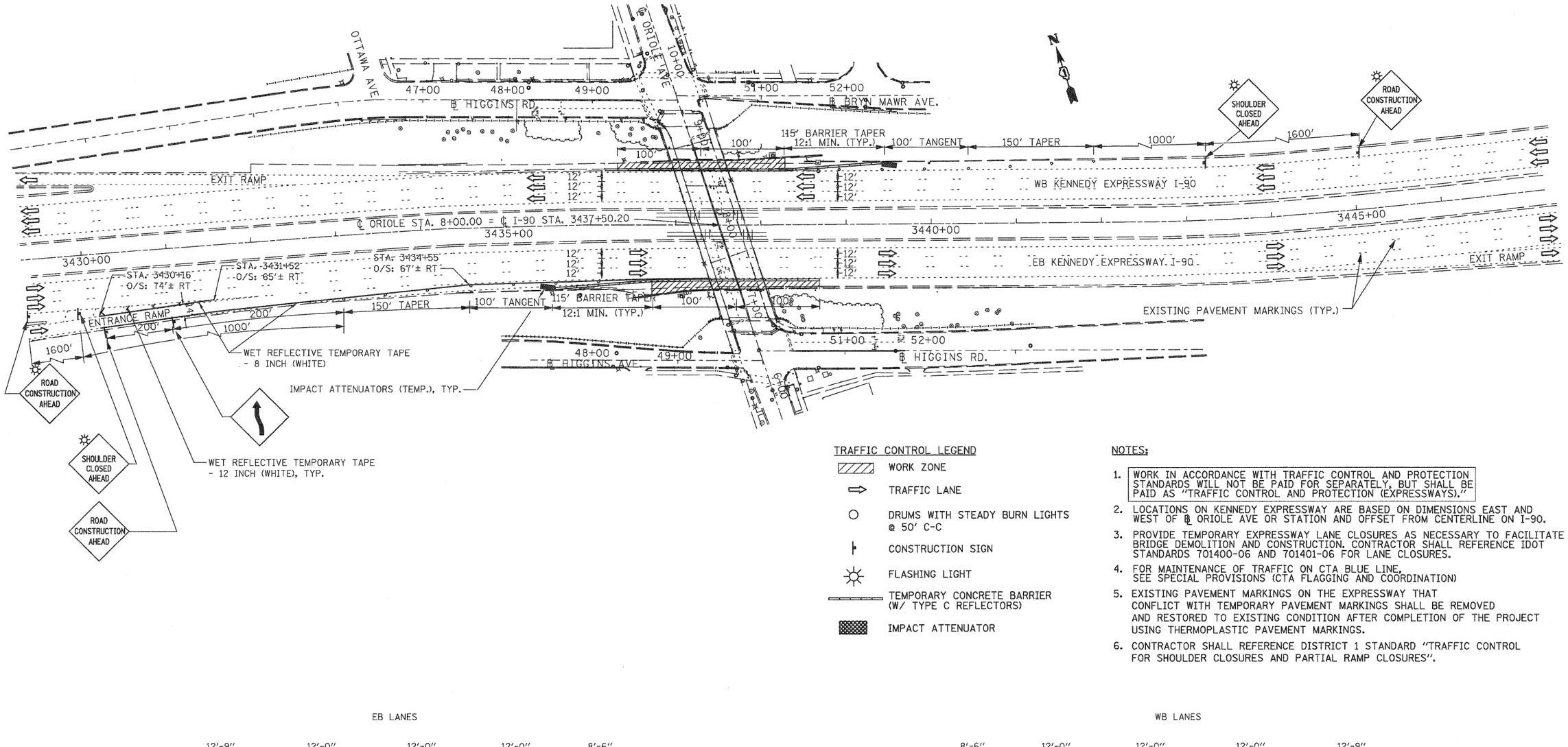
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

SCALE: 1" = 40' | SHEET NO. X OF X SHEETS | STA. | TO STA.

SUG. MAINTENANCE OF TRAFFIC
STAGE 3 ORIOLE AVENUE AT I-90

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	18
		CONTRACT NO. 60M79		
		ILLINOIS FED. AID PROJECT		

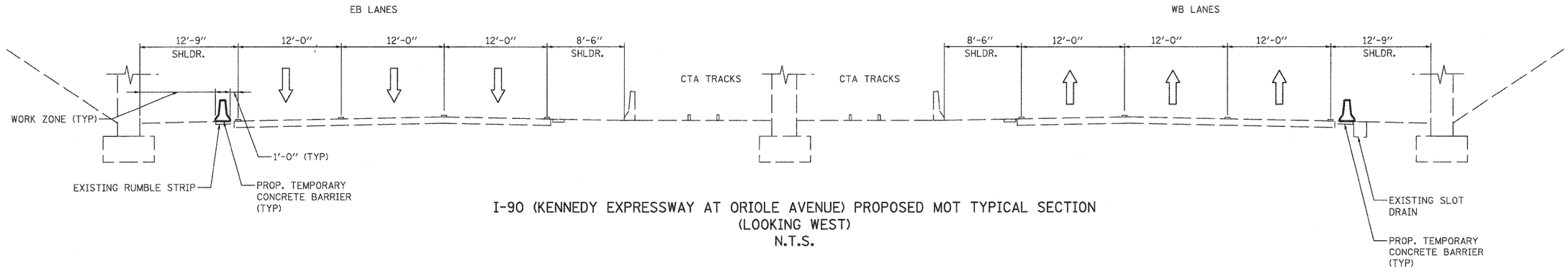


TRAFFIC CONTROL LEGEND

- WORK ZONE
- TRAFFIC LANE
- DRUMS WITH STEADY BURN LIGHTS @ 50' C-C
- CONSTRUCTION SIGN
- FLASHING LIGHT
- TEMPORARY CONCRETE BARRIER (W/ TYPE C REFLECTORS)
- IMPACT ATTENUATOR

NOTES:

1. WORK IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE PAID AS "TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)."
2. LOCATIONS ON KENNEDY EXPRESSWAY ARE BASED ON DIMENSIONS EAST AND WEST OF ℄ ORIOLE AVE OR STATION AND OFFSET FROM CENTERLINE ON I-90.
3. PROVIDE TEMPORARY EXPRESSWAY LANE CLOSURES AS NECESSARY TO FACILITATE BRIDGE DEMOLITION AND CONSTRUCTION. CONTRACTOR SHALL REFERENCE IDOT STANDARDS 701400-06 AND 701401-06 FOR LANE CLOSURES.
4. FOR MAINTENANCE OF TRAFFIC ON CTA BLUE LINE, SEE SPECIAL PROVISIONS (CTA FLAGGING AND COORDINATION)
5. EXISTING PAVEMENT MARKINGS ON THE EXPRESSWAY THAT CONFLICT WITH TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED AND RESTORED TO EXISTING CONDITION AFTER COMPLETION OF THE PROJECT USING THERMOPLASTIC PAVEMENT MARKINGS.
6. CONTRACTOR SHALL REFERENCE DISTRICT 1 STANDARD "TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES".



I-90 (KENNEDY EXPRESSWAY AT ORIOLE AVENUE) PROPOSED MOT TYPICAL SECTION
(LOOKING WEST)
N.T.S.

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	JS	REVISED	-
CHECKED	TPP	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

SUG. MAINTENANCE OF TRAFFIC
ORIOLE AVENUE AT I-90

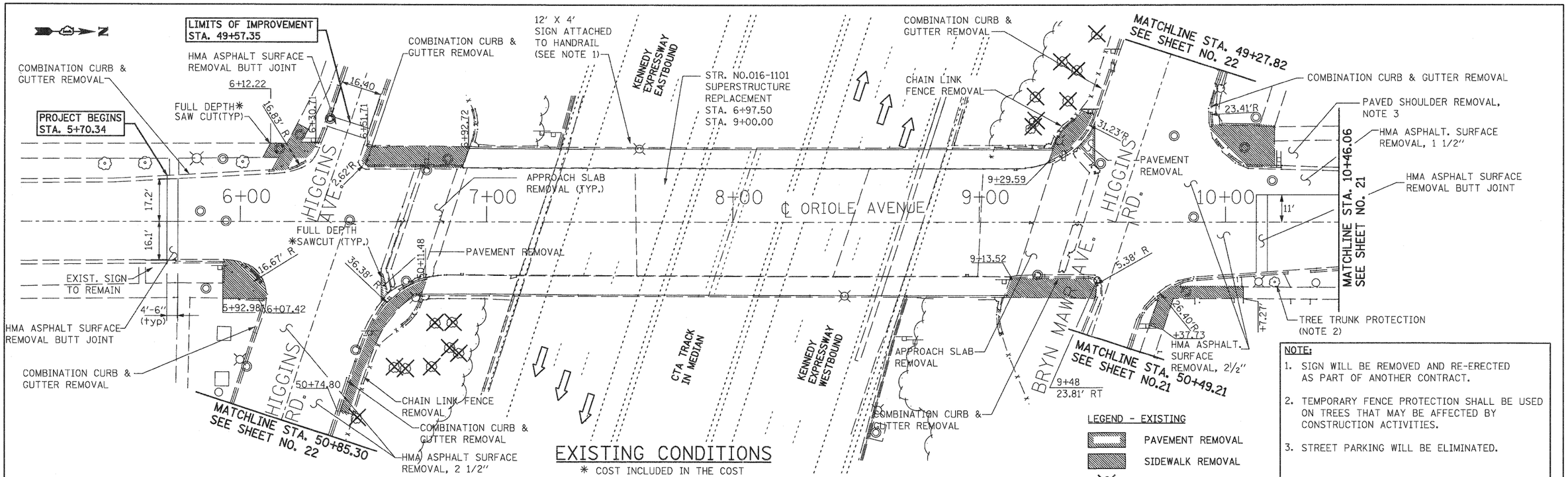
SCALE: 1" = 60' | SHEET NO. X OF X SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	19
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			

H:\IDOT\2009-246 PTB 153 Item 2\N016-II01\Or1ole_FinalEngineering\Plan Sheets\20-020cpl01v8.dgn 11/3/2011 4:33:15 PM

EXISTING CONDITIONS

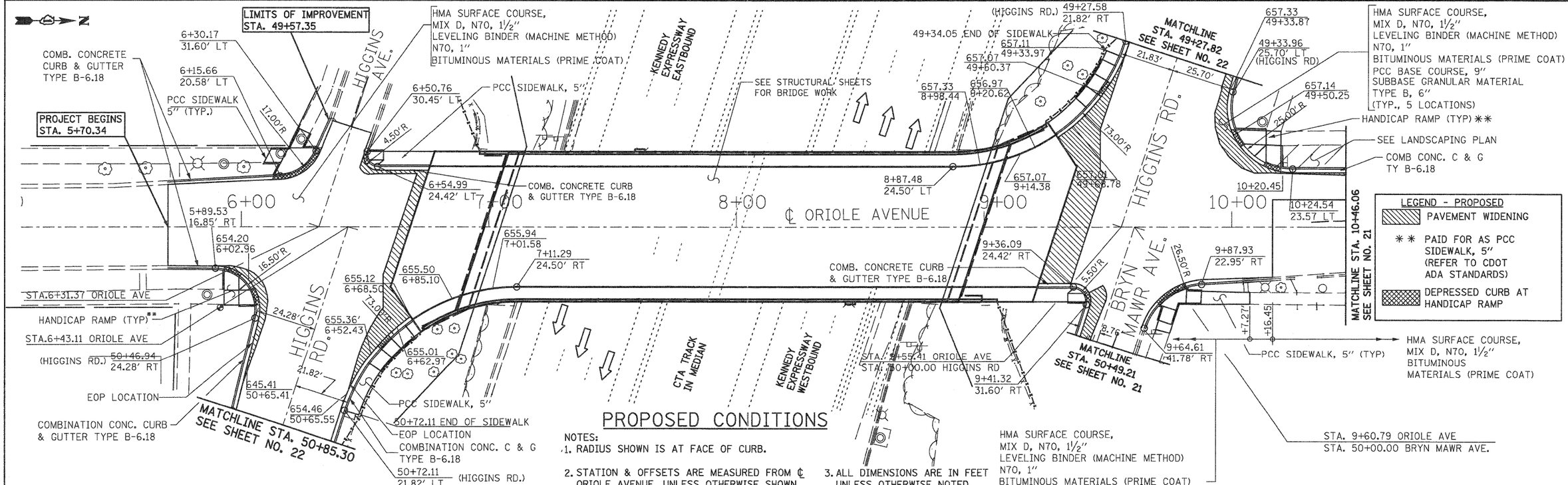
* COST INCLUDED IN THE COST OF ITEM BEING REMOVED



NOTE:

1. SIGN WILL BE REMOVED AND RE-ERECTED AS PART OF ANOTHER CONTRACT.
2. TEMPORARY FENCE PROTECTION SHALL BE USED ON TREES THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITIES.
3. STREET PARKING WILL BE ELIMINATED.

PROPOSED CONDITIONS



NOTES:

1. RADIUS SHOWN IS AT FACE OF CURB.
2. STATION & OFFSETS ARE MEASURED FROM ¢ ORIOLE AVENUE, UNLESS OTHERWISE SHOWN
3. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.

ABNA
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728
9+51.90.80DESIGN FIRM REG. 184.002117

DESIGNED	TS	REVISED -
CHECKED	TPP	REVISED -
DRAWN	JS	REVISED -
CHECKED	TPP	REVISED -

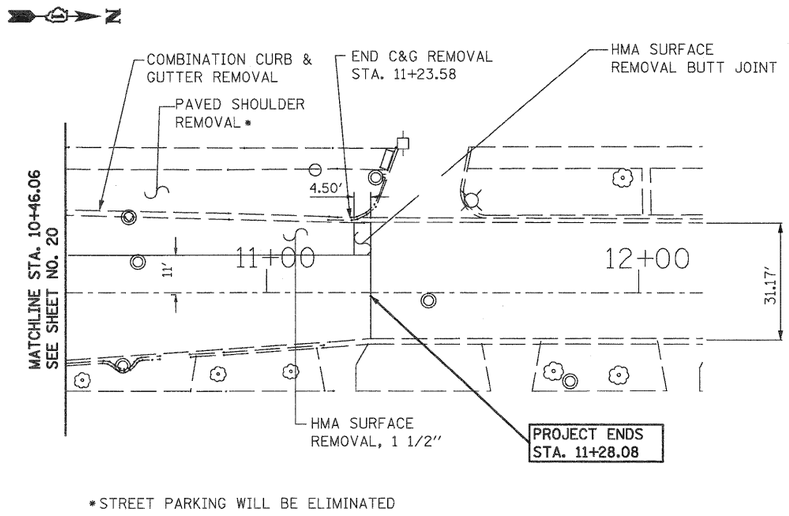
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101
SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. 5+70.34 TO STA. 10+46.06

ROADWAY PLAN ORIOLE AVE AT I-90

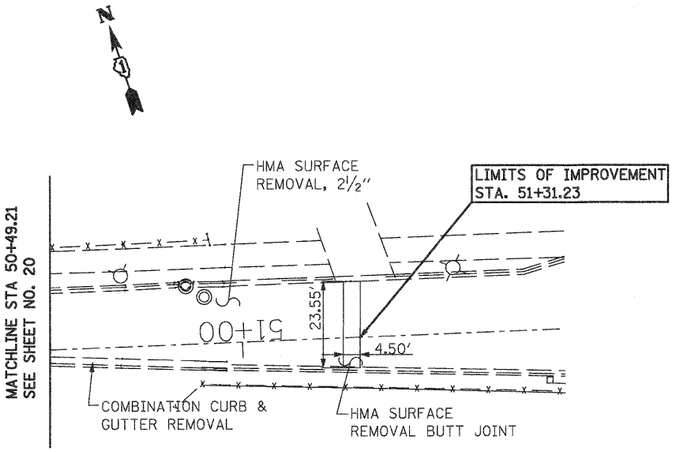
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	20
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			

H:\IDOT\2009-246 PTB 153 Item 21\016-1101\Oriole_FinalEngineering\Plan Sheets\21-020opl03v8.dgn 4:36:57 PM 11/3/2011

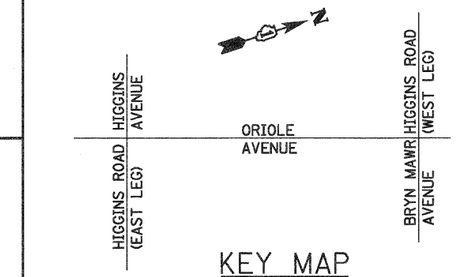


*STREET PARKING WILL BE ELIMINATED

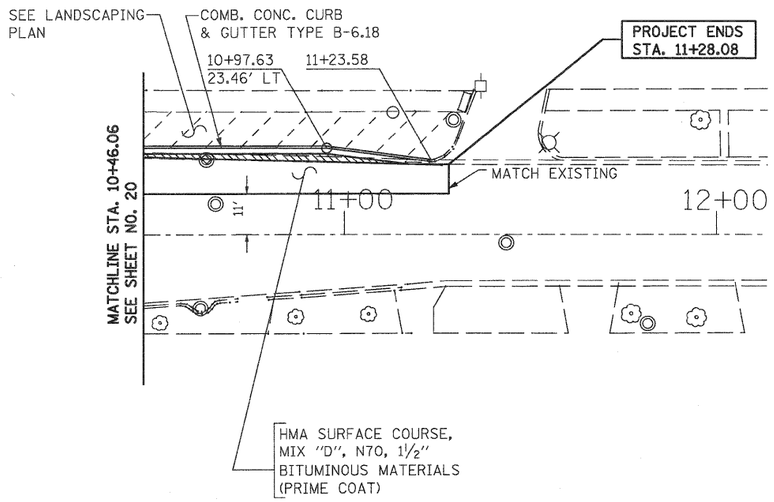
EXISTING CONDITIONS ORIOLE AVENUE



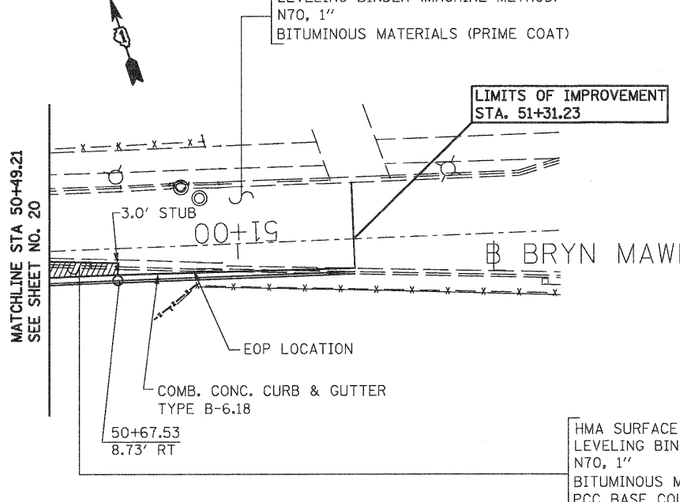
EXISTING CONDITIONS BRYN MAWR AVENUE



KEY MAP
N.T.S.



PROPOSED CONDITIONS ORIOLE AVENUE



LEGEND - PROPOSED

PAVEMENT WIDENING

PROPOSED CONDITIONS BRYN MAWR AVENUE

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED -
CHECKED	TPP	REVISED -
DRAWN	JS	REVISED -
CHECKED	TPP	REVISED -

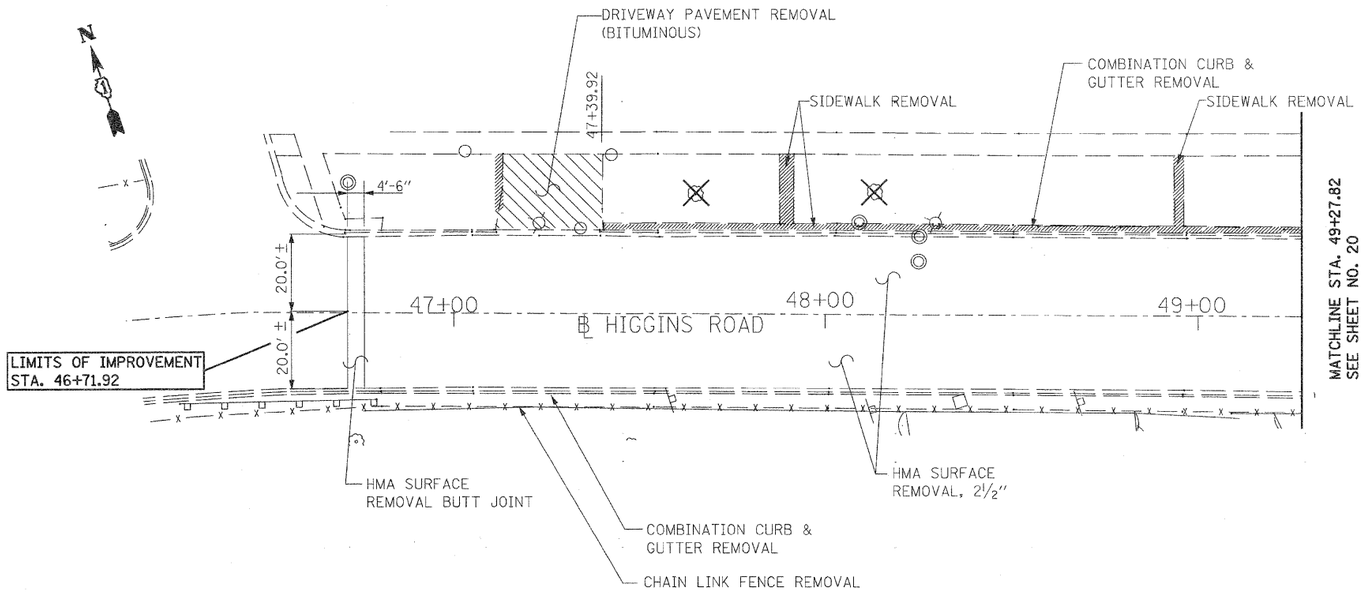
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101
SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. VARIES TO STA. VARIES

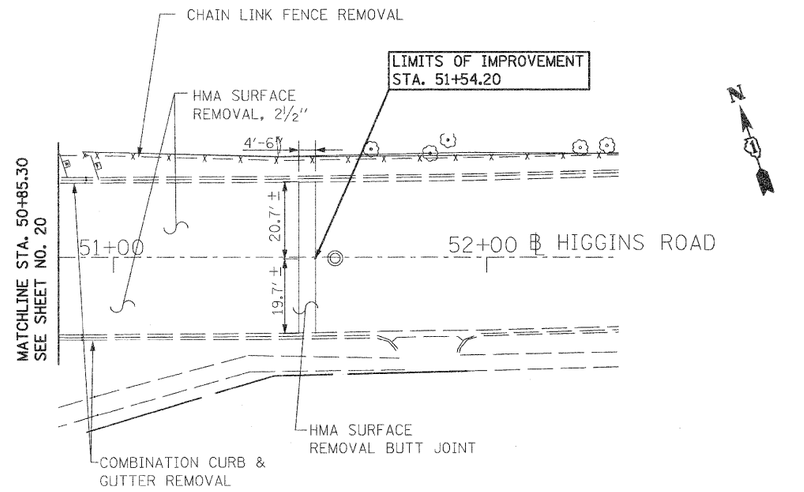
ROADWAY PLAN ORIOLE AVE. & BRYN MAWR AVE.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	21
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			

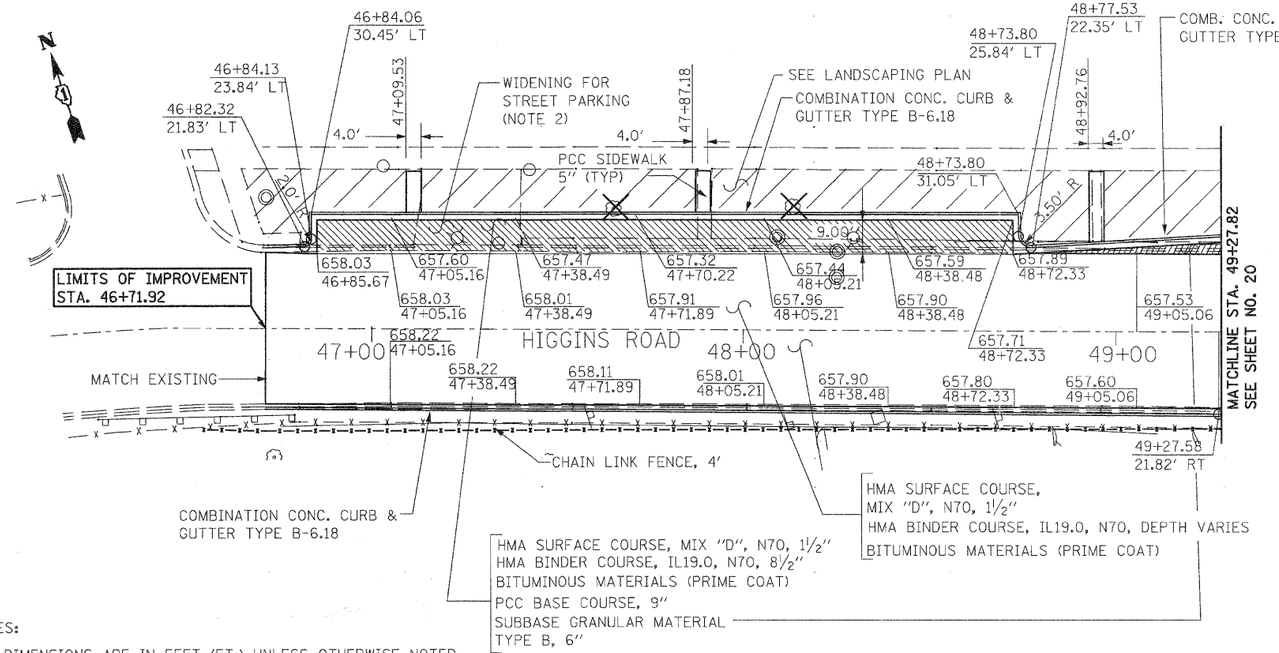
H:\IDOT\2009-246 PTB 153 Item 21\016-1101\Oriole_FinalEngineering\Plan Sheets\22-020opl02v8.dgn 1:38:33 PM 12/2/2011



EXISTING CONDITIONS
HIGGINS ROAD (WEST LEG)



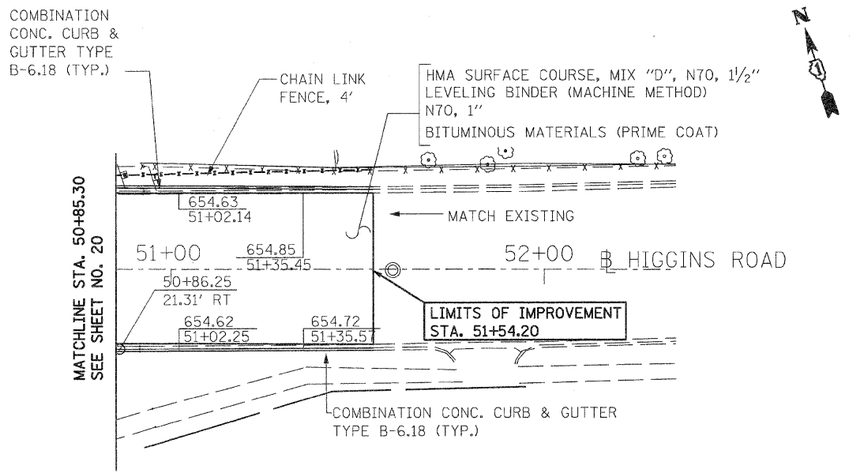
EXISTING CONDITIONS
HIGGINS ROAD (EAST LEG)



NOTES:

1. ALL DIMENSIONS ARE IN FEET (FT.) UNLESS OTHERWISE NOTED.
2. STREET PARKING: COST PARTICIPATION 50% CITY OF CHICAGO AND 50% STATE.

PROPOSED CONDITIONS
HIGGINS ROAD (WEST LEG)



PROPOSED CONDITIONS
HIGGINS ROAD (EAST LEG)

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

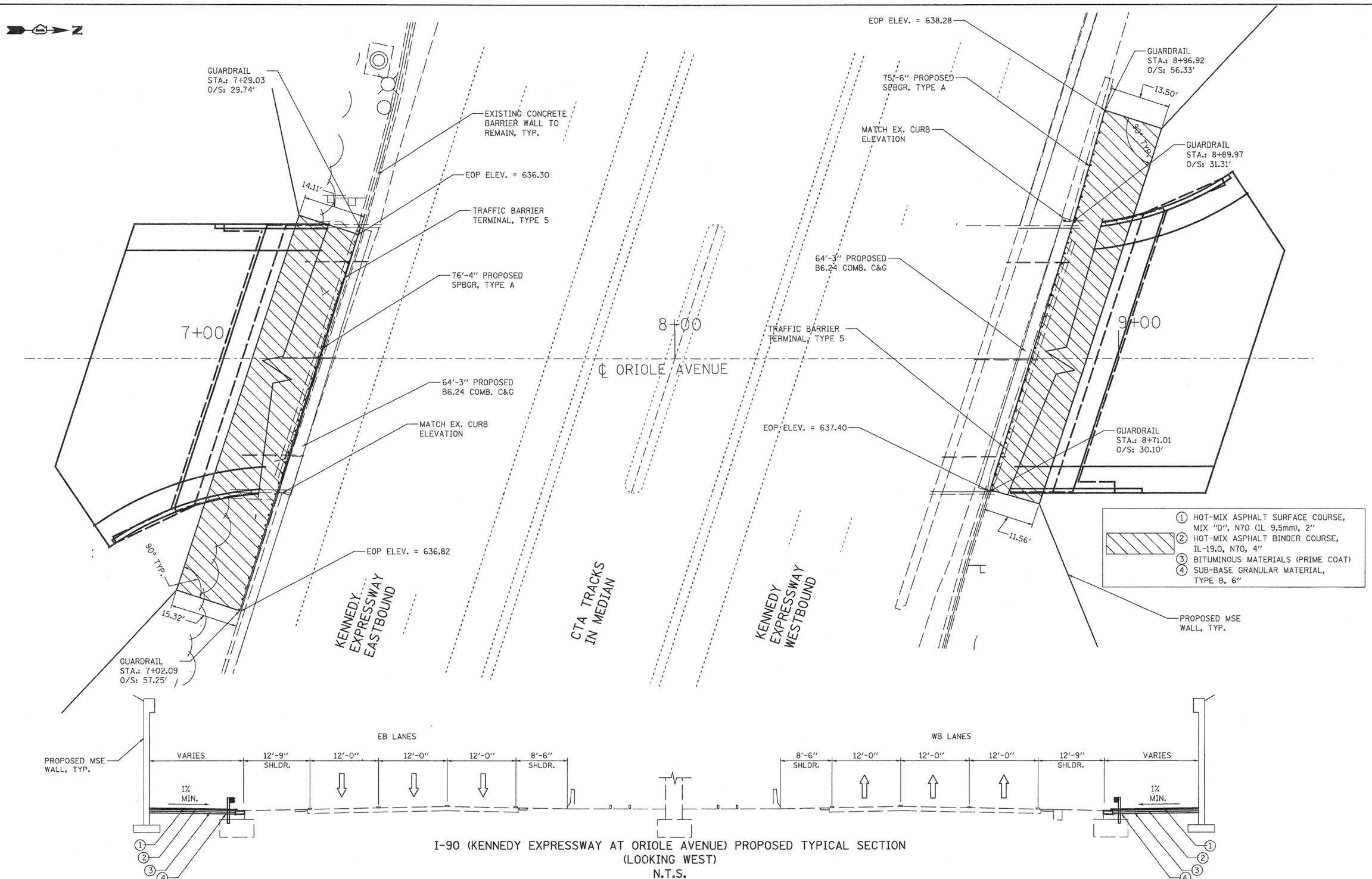
DESIGNED	TS	REVISED -
CHECKED	TPP	REVISED -
DRAWN	JS	REVISED -
CHECKED	TPP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101
SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. VARIES TO STA. VARIES

ROADWAY PLAN
HIGGINS RD.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	22
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			



I-90 (KENNEDY EXPRESSWAY AT ORIOLE AVENUE) PROPOSED TYPICAL SECTION
(LOOKING WEST)
N.T.S.

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773-239-3728

DESIGNED	TPP	REVISED	-
CHECKED	JL	REVISED	-
DRAWN	TPP	REVISED	-
CHECKED	JL	REVISED	-

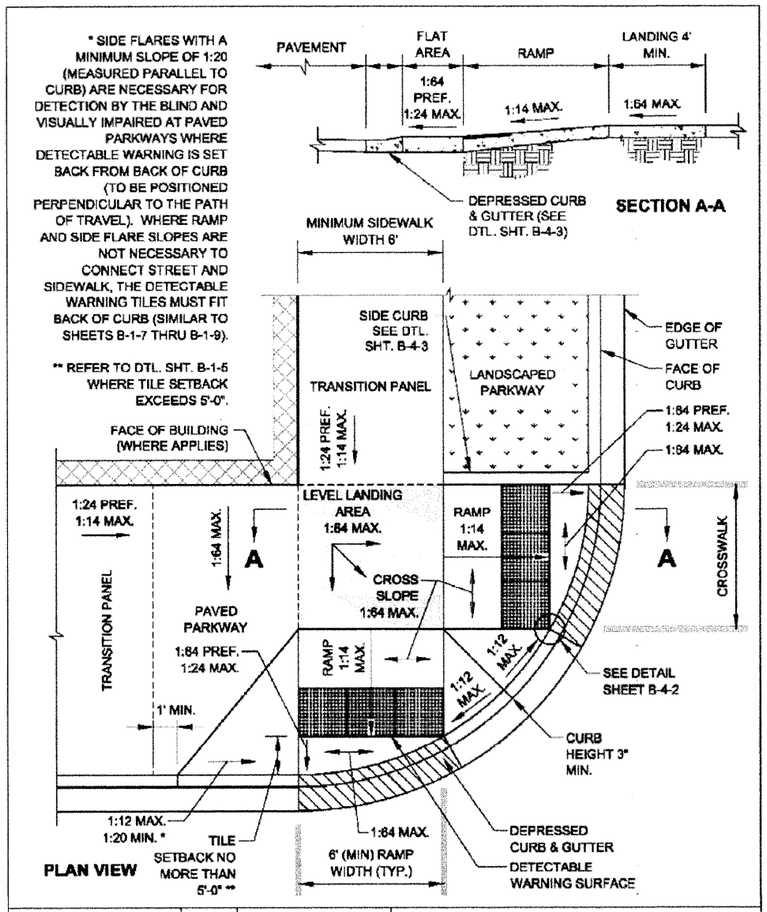
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

SHOULDER WIDENING ALONG I-90

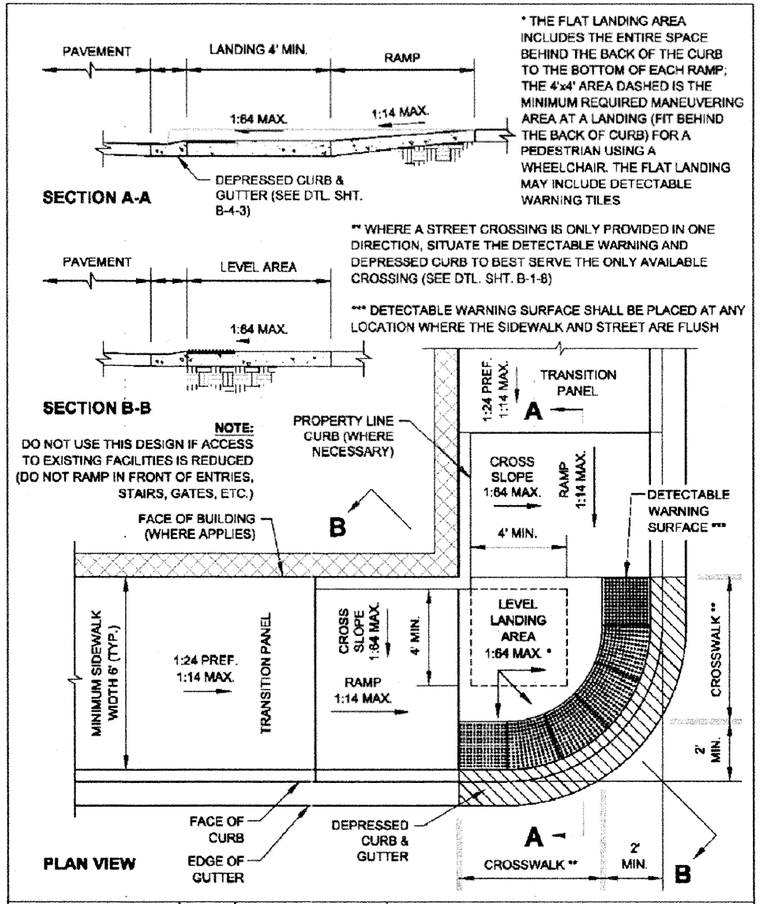
SCALE: 1" = 10' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	23
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			



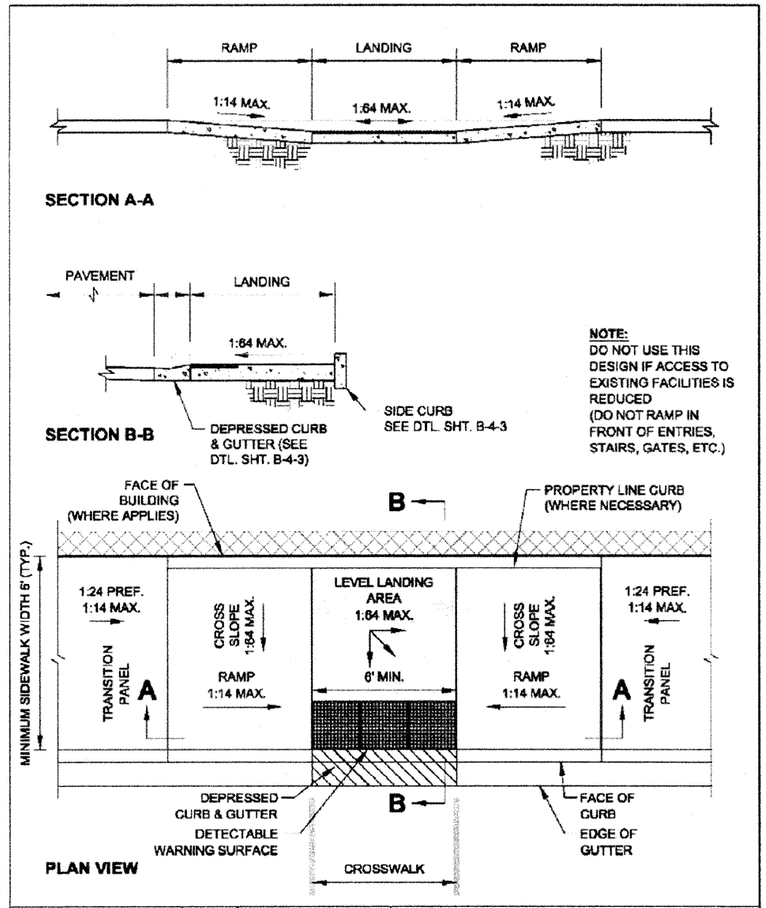
DATE	REVISION
02/20/07	REVISION 1
11/15/07	REVISION 2
11/14/08	REVISION 3
11/02/09	REVISION 4

CITY OF CHICAGO
2 PERPENDICULAR RAMPS AT CORNER WITH RAMPS IN CURB RADIUS
SCALE: NOT TO SCALE DATE: 10/23/2006
SHEET B-1-3
DRAWN BY: CDOT CHECKED BY: LCM



DATE	REVISION
02/20/07	REVISION 1
11/15/07	REVISION 2
11/14/08	REVISION 3
11/02/09	REVISION 4

CITY OF CHICAGO
BLENDED TRANSITION AT CORNER
SCALE: NOT TO SCALE DATE: 10/23/2006
SHEET B-1-7
DRAWN BY: CDOT CHECKED BY: LCM



DATE	REVISION
02/20/07	REVISION 1
11/15/07	REVISION 2
11/14/08	REVISION 3
11/02/09	REVISION 4

CITY OF CHICAGO
PARALLEL RAMP AT MID-BLOCK LOCATION
SCALE: NOT TO SCALE DATE: 10/23/2006
SHEET B-1-16
DRAWN BY: CDOT CHECKED BY: LCM

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

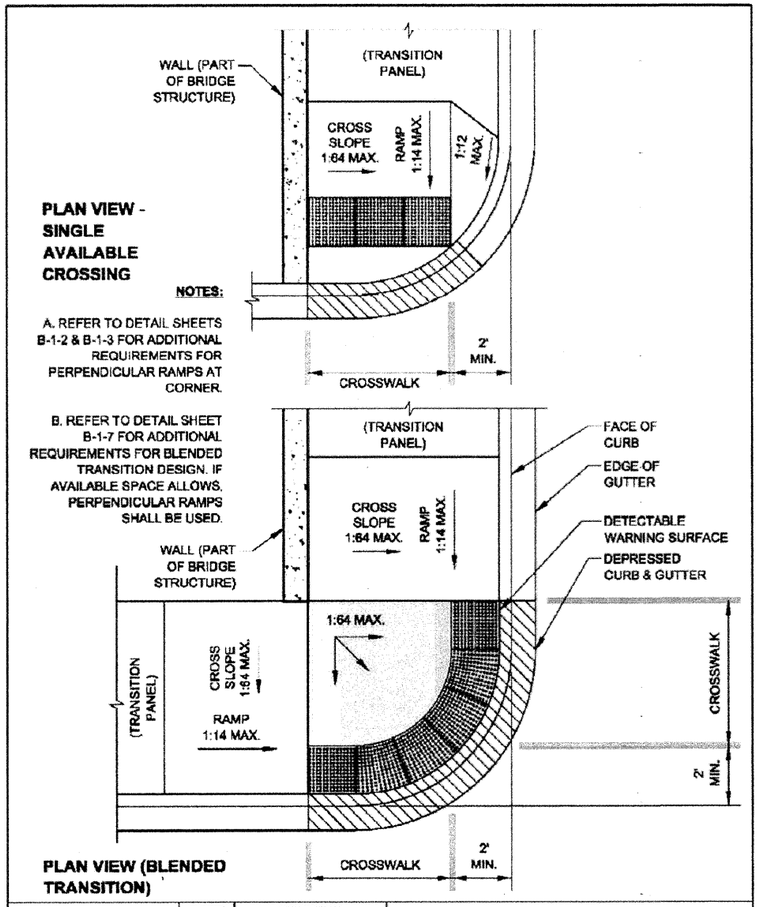
DESIGNED	TS	REVISED -
CHECKED	TPP	REVISED -
DRAWN	JS	REVISED -
CHECKED	TPP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101
SCALE: NONE | SHEET NO. X OF X SHEETS | STA. | TO STA.

ORIOLE AVE, OVER KENNEDY EXPWY
DETAIL SHEET

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	24
		CONTRACT NO. 60M79		
		ILLINOIS FED. AID PROJECT		



PLAN VIEW - SINGLE AVAILABLE CROSSING

NOTES:

A. REFER TO DETAIL SHEETS B-1-2 & B-1-3 FOR ADDITIONAL REQUIREMENTS FOR PERPENDICULAR RAMPS AT CORNER.

B. REFER TO DETAIL SHEET B-1-7 FOR ADDITIONAL REQUIREMENTS FOR BLENDED TRANSITION DESIGN. IF AVAILABLE SPACE ALLOWS, PERPENDICULAR RAMPS SHALL BE USED.

PLAN VIEW (BLENDED TRANSITION)

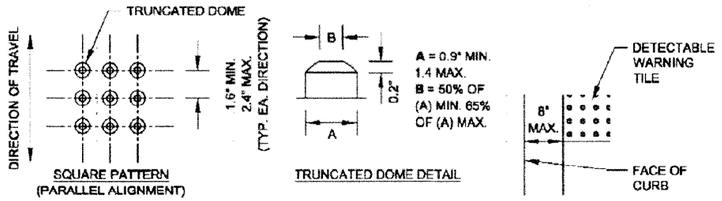
DATE	REVISION
02/20/07	REVISION 1
11/15/07	REVISION 2
11/14/08	REVISION 3
11/02/09	REVISION 4

CDOT

CITY OF CHICAGO
ON-GRADE RAMP AT BRIDGE OR OVERPASS
SHEET B-1-21

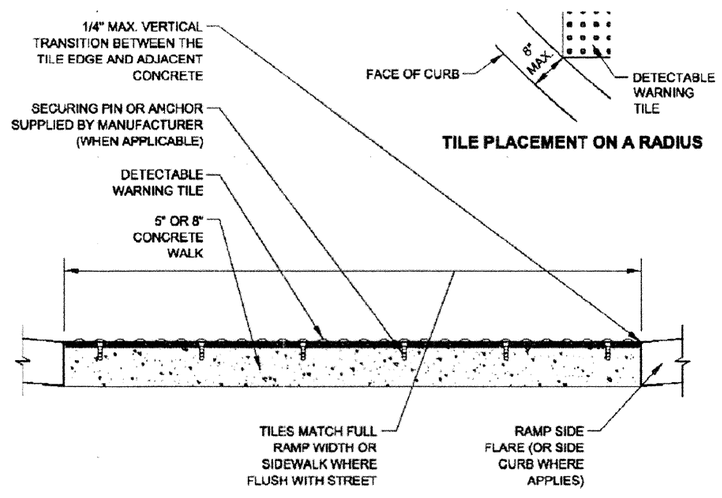
SCALE: NOT TO SCALE
DATE: 10/23/2006
DRAWN BY: CDOT
CHECKED BY: LCM

GENERAL NOTE:
THE ROWS OF DOMES IN THE DETECTABLE WARNING MATERIAL MUST BE ALIGNED WITH THE PATH OF WHEELCHAIR TRAVEL WHICH IS REQUIRED TO BE PERPENDICULAR TO THE GRADE BREAK AT THE BOTTOM OF THE RAMP TO PERMIT TRACKING BETWEEN DOME ROWS. ON BLENDED TRANSITIONS OR FLUSH TRANSITIONS, WHERE RADIAL TILES ARE SITUATED ABOUT THE CURB RADIUS, DOME ORIENTATION IS NOT SIGNIFICANT.



TILE PATTERN & DOME DETAIL

TYPICAL TILE PLACEMENT



DETECTABLE WARNING TILE SECTION

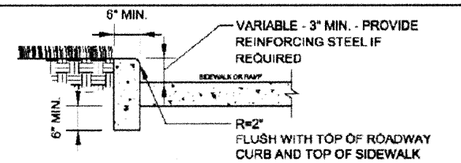
TILE PLACEMENT ON A RADIUS

DATE	REVISION
02/20/07	REVISION 1
11/15/07	REVISION 2
11/14/08	REVISION 3
11/02/09	REVISION 4

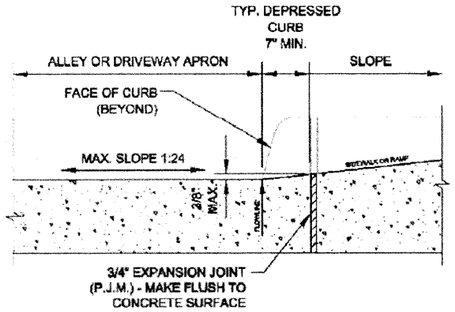
CDOT

CITY OF CHICAGO
DETECTABLE WARNING TILE DETAILS
SHEET B-4-2

SCALE: NOT TO SCALE
DATE: 10/23/2006
DRAWN BY: CDOT
CHECKED BY: LCM



SIDE CURB - SECTION



DEPRESSED CURB & GUTTER
AT ALLEY/DRIVEWAY APRON (TYPE 4 OR B CURB)

DEPRESSED CURB & GUTTER
AT BOTTOM OF TYPICAL CURB RAMP

NOTES FOR CURB & GUTTER DETAILS THIS SHEET:

A. CROSS SLOPE AT DEPRESSED CURB & GUTTER NOT TO EXCEED 1:64.

B. DETECTABLE WARNING SURFACE AT DRIVEWAYS REQUIRED ONLY FOR COMMERCIAL DRIVEWAYS WITH TRAFFIC CONTROL DEVICES, I.E. SIGNALS.

C. REFER TO *REGULATIONS FOR OPENINGS, CONSTRUCTION AND REPAIR IN THE PUBLIC WAY (CDOT)* FOR ADDITIONAL REQUIREMENTS FOR CURB AND GUTTER INSTALLATION.

D. RAMP SIDE FLARES SHALL BE INSTALLED AT ANY LOCATION WHERE THE SURFACE ADJACENT TO THE RAMP SURFACE IS INTENDED FOR PEDESTRIAN USE. TRIPPING HAZARDS, INCLUDING STEPS, DROP-OFFS, OR SIDE CURBS SHALL NOT BE LOCATED WITHIN THE LIMITS OF THE SIDEWALK.

E. "P.J.M." THIS SHEET REFERS TO PREFORMED JOINT MATERIAL.

* EXCEPTIONS BY COMMISSIONER

DATE	REVISION
02/20/07	REVISION 1
11/15/07	REVISION 2
11/14/08	REVISION 3
11/02/09	REVISION 4

CDOT

CITY OF CHICAGO
CURB & GUTTER DETAILS
SHEET B-4-3

SCALE: NOT TO SCALE
DATE: 10/23/2006
DRAWN BY: CDOT
CHECKED BY: LCM

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	JS	REVISED	-
CHECKED	TPP	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101
SCALE: NONE | SHEET NO. X OF X SHEETS | STA. | TO STA.

ORIOLE AVE, OVER KENNEDY EXPWY
DETAIL SHEET

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	24A
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			

GENERAL NOTES:

1. THE DETECTABLE WARNING TILES INSTALLED SHALL BE CHOSEN FROM THE CHICAGO DEPARTMENT OF TRANSPORTATION LIST OF APPROVED DETECTABLE WARNING PRODUCTS (AVAILABLE ON THE CITY OF CHICAGO WEBSITE). IT IS NOT ACCEPTABLE TO INSTALL TWO DIFFERENT DETECTABLE WARNING PRODUCTS ADJACENT TO ONE ANOTHER AT ANY LOCATION. IN THE CENTRAL BUSINESS DISTRICT, GRANITE OR OTHER SPECIALTY PAVING MATERIALS MAY BE SUBMITTED TO THE COMMISSIONER FOR APPROVAL.

2. TILES MUST BE INSTALLED A MAXIMUM OF 8" OR LESS FROM FACE OF CURB (SEE DETAIL SHEET B-1-2).

3. TILES MUST COVER FULL WIDTH OF RAMP EXCLUDING SIDE FLARES FOR A MINIMUM UNOBSTRUCTED DEPTH OF 24". TILES LOCATED ON THE SURFACES OF RAMPS ARE TYPICALLY ORIENTED PERPENDICULAR TO THE RUN OF THE RAMP UNLESS SPECIAL CIRCUMSTANCES OCCUR (SEE DETAIL SHEET B-1-5). TILES MUST BE PROVIDED FOR A MINIMUM DEPTH OF 24" FOR THE ENTIRE LENGTH OF THE SIDEWALK WHERE THE SIDEWALK IS FLUSH WITH THE STREET (DEPRESSED CURB OR FLUSH TRANSITION). IF IT IS NECESSARY TO CUT TILE(S) IN THE PROVISION OF A COMPLIANT RAMP OR SIDEWALK WITH 24" MINIMUM DEPTH OF DETECTABLE WARNING, THE TILES SHALL BE CUT IN A NEAT AND WORKMAN LIKE MANNER PER MANUFACTURER'S REQUIREMENTS WITH A MINIMUM OF THREE PINS OR ANCHOR POINTS (WHERE APPLICABLE). THE TILES SHALL BE ARRANGED SO THAT THE CUT TILES ARE LARGE ENOUGH TO BE PROPERLY AND ADEQUATELY SECURED. CUT TILES SHALL NOT BE USED UNLESS ALL OTHER DESIGN OPTIONS HAVE BEEN EXHAUSTED. THE USE OF SALVAGE PIECES FROM TILES THAT ARE CUT WILL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE COMMISSIONER. CUT TILE SALVAGE PIECES NOT APPROVED FOR USE MUST BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.

4. WHERE APPLICABLE, A COMBINATION OF STRAIGHT AND RADIAL TILES MAY BE USED ON COMPOUND AND LARGE RADII. CONTRACTOR MUST MAKE THIS DETERMINATION AND VERIFY IN FIELD.

5. TILES MUST CONTRAST WITH ADJACENT PAVEMENT. IF LIGHT COLORED PAVEMENT IS USED THE TILE COLOR SHALL BE RED. IF A DARK COLORED PAVEMENT IS USED THE TILE COLOR SHALL BE YELLOW. CONTRACTOR TO VERIFY THAT PROPER CONTRAST IS OBTAINED.

6. PRIOR TO PLACING CONCRETE FOR DEPRESSED CURBS, RAMPS, OR SIDEWALKS THE CONTRACTOR SHALL VERIFY THAT LAYOUT OR DESIGN COMPLIES WITH THE REQUIREMENTS OF THE CDOT ADA STANDARDS.

7. RAMP WIDTH MUST BE A MINIMUM OF 6'-0" AND IN INCREMENTS OF 1'-0", EXCEPT WHEN USING THE PERPENDICULAR RAMP AT CORNER (OR OTHER SPECIAL CDOT APPROVED CONDITIONS), WHICH HAS A MINIMUM WIDTH OF 4'-0".

8. THE MAXIMUM ALLOWABLE RAMP RUNNING SLOPE IS 1:14, MEASURED AT ANY PORTION OF THE RAMP. IF POSSIBLE, A MORE GRADUAL SLOPE SHALL BE USED. GRADE BREAKS AT THE TOP AND BOTTOM OF RAMPS SHALL BE PERPENDICULAR TO THE DIRECTION OF RAMP RUN.

9. THE MAXIMUM ALLOWABLE RAMP CROSS SLOPE IS 1:64, MEASURED AT ANY PORTION OF THE RAMP. IF POSSIBLE, A MORE GRADUAL SLOPE SHALL BE USED.

10. THE MAXIMUM ALLOWABLE RAMP LANDING SLOPE IS 1:64, MEASURED AT ANY LOCATION AND IN ANY DIRECTION ON THE LANDING. THE RAMP LANDING WIDTH SHALL MATCH THE FULL WIDTH OF THE RAMP FOR A MINIMUM UNOBSTRUCTED DEPTH OF 4'-0". RAMP LANDINGS SHALL BE PROVIDED AT THE TOP AND/OR BOTTOM OF RAMPS WHERE TURNING IS REQUIRED.

11. RAMP SIDE FLARES SHALL BE INSTALLED AT ANY LOCATION WHERE THE SURFACE ADJACENT TO THE RAMP SURFACE IS INTENDED FOR PEDESTRIAN USE. TRIPPING HAZARDS, INCLUDING STEPS, DROP-OFFS, OR CURBS SHALL NOT BE LOCATED WITHIN THE LIMITS OF THE SIDEWALK.

12. UTILITIES, SUCH AS LIGHT POLES, TRAFFIC POLES AND HYDRANTS, MAY BE LOCATED IN THE FLARE OF THE RAMP BUT ARE NOT ALLOWED ON THE RAMP SURFACE OR LANDING AREAS.

13. ALL LOCATIONS WITH TYPE 4 OR TYPE B CURB (EXCEPT ALLEY APRONS) SHALL BE CONSTRUCTED AS CURB AND GUTTER TYPE BV.12 THROUGH THE LIMITS OF THE CORNER AND THE CURB RAMPS.

City of Chicago Richard M. Daley, Mayor — Department of Transportation — Division of Engineering — www.cityofchicago.org

CDOT

DATE	REVISION
02/20/07	REVISION 1
11/15/07	REVISION 2
11/14/08	REVISION 3
11/02/09	REVISION 4

CITY OF CHICAGO
GENERAL NOTES
SHEET B-3-2

SCALE: NOT TO SCALE
DATE: 10/23/2006

DRAWN BY: CDOT
CHECKED BY: LCM

GENERAL NOTES (CONTINUED):

14. ALTERATIONS SHALL NOT DECREASE THE ACCESSIBILITY TO EXISTING FACILITIES. SIDEWALKS LEADING TO EXISTING FACILITIES OR DOOR OR GATE ACCESS POINTS TO FACILITIES. THE ELEVATION AT THE EXISTING PROPERTY LINE OR FACILITY ACCESS POINT SHALL BE MAINTAINED AT A MINIMUM. ANY ALTERATIONS ADJACENT TO OR AFFECTING A FACILITY ACCESS POINT SHALL RESULT IN IMPROVED ACCESS OR AT A MINIMUM A REPLICATION OF EXISTING CONDITIONS, INCLUDING SIDEWALK SLOPES AND SURFACE CONDITIONS. FACILITIES INCLUDE, BUT ARE NOT LIMITED TO PRIVATE BUSINESSES, PUBLIC BUILDINGS, RESIDENCES, BUS STOPS, PUBLIC BENCHES, PAY PHONES, AND PARKING METERS.

15. THE MINIMUM CROSSWALK WIDTH IS 6'-0". CROSSWALKS SHALL BE LOCATED AS SHOWN IN THE PLAN SHEETS DEPENDING ON THE TYPE OF CURB RAMP USED. BEYOND THE CURB FACE AT THE BASE OF CURB RAMPS, A CLEAR SPACE OF 4'-0" BY 4'-0" MINIMUM SHALL BE PROVIDED WITHIN THE STRIPES OF THE CROSSWALK (WHERE PROVIDED).

16. IF SIDEWALK AND ALLEY ARE AT THE SAME GRADE, A RAMP IS NOT REQUIRED. IF SIDEWALK AND DRIVEWAY ARE AT THE SAME GRADE, A RAMP IS NOT REQUIRED BUT DETECTABLE WARNING TILES ARE STILL REQUIRED IF THE DRIVEWAY HAS TRAFFIC CONTROL DEVICES (I.E. TRAFFIC SIGNALS).

17. MAIN LINE SIDEWALK SHALL HAVE A MAXIMUM CROSS SLOPE NOT TO EXCEED 1:64 FOR THE FULL WIDTH OF WALK UNLESS OTHERWISE APPROVED BY THE COMMISSIONER. WHERE TURNING IS REQUIRED AND WHERE SIDEWALKS INTERSECT, THE SLOPE OF THE SIDEWALK SHALL NOT EXCEED 1:64 IN ANY DIRECTION.

18. MAIN LINE SIDEWALK RUNNING SLOPES SHALL NOT EXCEED 1:24 OR THE GENERAL GRADE ESTABLISHED FOR THE ADJACENT STREET, WHICH EVER IS HIGHER.

19. THERE SHALL BE NO VERTICAL LEVEL DIFFERENCES BETWEEN SURFACES GREATER THAN 1/4" ON THE MAIN LINE SIDEWALK. THERE SHALL BE NO HORIZONTAL GAPS OR OPENINGS GREATER THAN 1/2" ON THE MAIN LINE SIDEWALK.

20. WHERE OBSTRUCTIONS EXIST ON THE MAINLINE SIDEWALK, THE CLEAR WIDTH OF USEABLE SIDEWALK SHALL NOT BE LESS THAN 4'-0". OBSTRUCTIONS INCLUDE, BUT ARE NOT LIMITED TO SIDEWALK BENCHES, FIRE HYDRANTS, SIGNAL OR LIGHT POLES, NEWSPAPER DISPENSERS, TRASH RECEPTACLES, AND UTILITY PEDESTALS.

21. CURB RAMPS AND LANDING (KEYSTONE) TO BE CONSTRUCTED WITH 8" THICK CONCRETE AT ALL TRAFFIC SIGNALIZED INTERSECTIONS AND INDUSTRIAL STREET INTERSECTIONS. AT ALL OTHER LOCATIONS, 5" THICK CONCRETE TO BE USED.

22. NO DEVIATIONS FROM THESE STANDARDS ARE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE COMMISSIONER.

23. DEPRESSED CURB, RAMP, OR SIDEWALK DESIGNS OR LAYOUTS SHALL MAINTAIN OR IMPROVE EXISTING DRAINAGE AND THE EXISTING INTERSECTION GEOMETRY SHALL NOT BE MODIFIED WITHOUT CDOT APPROVAL.

24. ALL CONSTRUCTION DOCUMENTS MUST BE STAMPED BY A LICENSED ARCHITECT/LANDSCAPE ARCHITECT/ENGINEER TO CERTIFY THAT THEY ARE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND ALL CODES AND BUILDING ORDINANCES OF THE CITY OF CHICAGO AND STATE OF ILLINOIS.

City of Chicago Richard M. Daley, Mayor — Department of Transportation — Division of Engineering — www.cityofchicago.org

CDOT

DATE	REVISION
02/20/07	REVISION 1
11/15/07	REVISION 2
11/14/08	REVISION 3
11/02/09	REVISION 4

CITY OF CHICAGO
GENERAL NOTES (CONTINUED)
SHEET B-3-3

SCALE: NOT TO SCALE
DATE: 10/23/2006

DRAWN BY: CDOT
CHECKED BY: LCM

ADA COMPLIANCE AND TRANSITION GUIDELINES
POLICY STATEMENT: ANY ALTERATION OF THE PUBLIC WAY MUST BE RESTORED IN AN ADA COMPLIANT MANNER

I. STREET RESURFACING / RECONSTRUCTION *

FOR ANY RESURFACING/RECONSTRUCTION PROJECT WHERE, WITHIN THE PROJECT LIMITS, A CROSSWALK IS ENCOUNTERED OR WHERE THE PROJECT LIMITS TERMINATE WITHIN 4' OR LESS OF A CROSSWALK, THOSE CROSSWALKS AND THE ASSOCIATED CURB RAMPS MUST BE IMPROVED TO CURRENT ADA STANDARDS. WHERE RESURFACING/RECONSTRUCTION ENCOUNTERS LESS THAN 1/4 POINT OF THE STREET SURFACE (LONGITUDINAL CUT), IT IS ACCEPTABLE PRACTICE TO EXCLUDE IMPROVEMENTS TO THE ASSOCIATED CROSSWALKS AND CURB RAMPS.

WHEN A PROJECT SCOPE OF WORK CALLS FOR ONLY AN INTERSECTION TO BE REPAVED, THE INTERSECTION LIMITS AS DEFINED BY THE AREA OUTLINED BY OUTERMOST CROSSWALK LINES AND ADJACENT CURB FACES AND ALL ADJOINING CROSSWALKS AND CURB RAMPS MUST BE IMPROVED TO CURRENT ADA STANDARDS.

WHEN A PROJECT SCOPE OF WORK IS LIMITED TO A SINGLE CORNER OF AN INTERSECTION, THE CURB RAMP MUST BE IMPROVED TO CURRENT ADA STANDARDS AND THE ADJACENT PAVEMENT MUST BE RESURFACED, AS NECESSARY TO PROVIDE FOR A FLUSH TRANSITION.

FOR ANY RESURFACING / RECONSTRUCTION PROJECT WHERE, WITHIN THE PROJECT LIMITS, AN ALLEY APRON IS ENCOUNTERED, THE ASSOCIATED CURB RAMPS, ALLEY APRON, AND SIDEWALKS MUST BE IMPROVED TO CURRENT ADA STANDARDS.

II. SIDEWALK INSTALLATION / REPAIRS / RECONSTRUCTION

THE LIMITS OF ANY MAINLINE SIDEWALK REPLACEMENT, GREATER THAN TEN FEET (10') IN LENGTH, THAT ABUT AN EXISTING RAMP LOCATION (INCLUDING THE FOUR FOOT (4') LANDING AREA AND/OR THE "KEYSTONE"), SHALL BE EXTENDED TO INCLUDE THE AFFECTED RAMPS AND THESE RAMPS SHALL BE RECONSTRUCTED TO CURRENT ADA STANDARDS. IN ADDITION, ALL NEWLY PLACED SIDEWALK TEN FEET (10') OR MORE IN LENGTH SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL CURRENT APPLICABLE STANDARDS WHICH INCLUDE PROVIDING A MINIMUM FOUR FEET (4') WIDTH ACCESSIBLE PATHWAY WITH A CROSS SLOPE NOT TO EXCEED 1:64.

III. GUIDELINES FOR TRANSITIONING TO EXISTING NON-COMPLIANT CONDITION

NEW SIDEWALK PLACEMENTS GREATER THAN TEN FEET IN CONTIGUOUS LENGTH:
THE LIMITS OF ANY MAINLINE SIDEWALK REPLACEMENT, GREATER THAN TEN FEET (10') IN LENGTH, MUST BE EXTENDED FOR A MINIMUM FIVE ADDITIONAL FEET (5') EITHER SIDE IN ORDER TO PROVIDE A REASONABLE TRANSITION TO MATCH THE EXISTING SIDEWALK. THE LENGTH OF TRANSITION SHALL BE LENGTHENED AS NECESSARY TO ENSURE THAT THE RUNNING SLOPE OF THE TRANSITION DOES NOT EXCEED A SLOPE OF 1:24 (PREFERRED) OR 1:14 (MAXIMUM) AT ANY POINT.

NEW SIDEWALK REPLACEMENTS TEN FEET OR LESS IN CONTIGUOUS LENGTH (REPAIRS):
IT IS ACCEPTABLE PRACTICE TO MATCH ADJACENT SIDEWALKS AT THE EXISTING SLOPE.

CURB RAMP REPLACEMENTS:
SIDEWALK REPLACEMENT BEYOND THE LIMITS OF THE LANDING AREA AND/OR THE "KEYSTONE" MUST BE EXTENDED A MINIMUM OF AN AN ADDITIONAL FIVE FEET (5') EITHER SIDE IN ORDER TO PROVIDE A REASONABLE TRANSITION TO MATCH THE EXISTING SIDEWALK. THE TRANSITION SHALL BE LENGTHENED AS NECESSARY TO ENSURE THAT THE RUNNING SLOPE OF THE TRANSITION DOES NOT EXCEED A SLOPE OF 1:24 (PREFERRED) OR 1:14 (MAXIMUM) AT ANY POINT.

NO EXCEPTIONS TO THE ABOVE WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE COMMISSIONER.

* THE REQUIREMENTS OF SECTION I. SHALL APPLY ONLY TO CITY AGENCIES

City of Chicago Richard M. Daley, Mayor — Department of Transportation — Division of Engineering — www.cityofchicago.org

CDOT

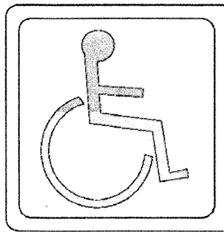
DATE	REVISION
02/20/07	REVISION 1
11/15/07	REVISION 2
11/14/08	REVISION 3
11/02/09	REVISION 4

CITY OF CHICAGO
ADA COMPLIANCE AND TRANSITION GUIDELINES
SHEET B-3-4

SCALE: NOT TO SCALE
DATE: 10/23/2006

DRAWN BY: CDOT
CHECKED BY: LCM

CERTIFICATION:



THIS CERTIFIED THAT THESE DRAWINGS HAVE BEEN REVIEWED TO THE BEST OF MY KNOWLEDGE AND THAT I BELIEVE THEY ARE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA), AND ALL CODES AND BUILDING ORDINANCES OF THE CITY OF CHICAGO, STATE OF ILLINOIS.

LICENSED ARCHITECT / LANDSCAPE ARCHITECT / LICENSED ENGINEER

ABNA
DESIGN FIRM REG. 184.002117

9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

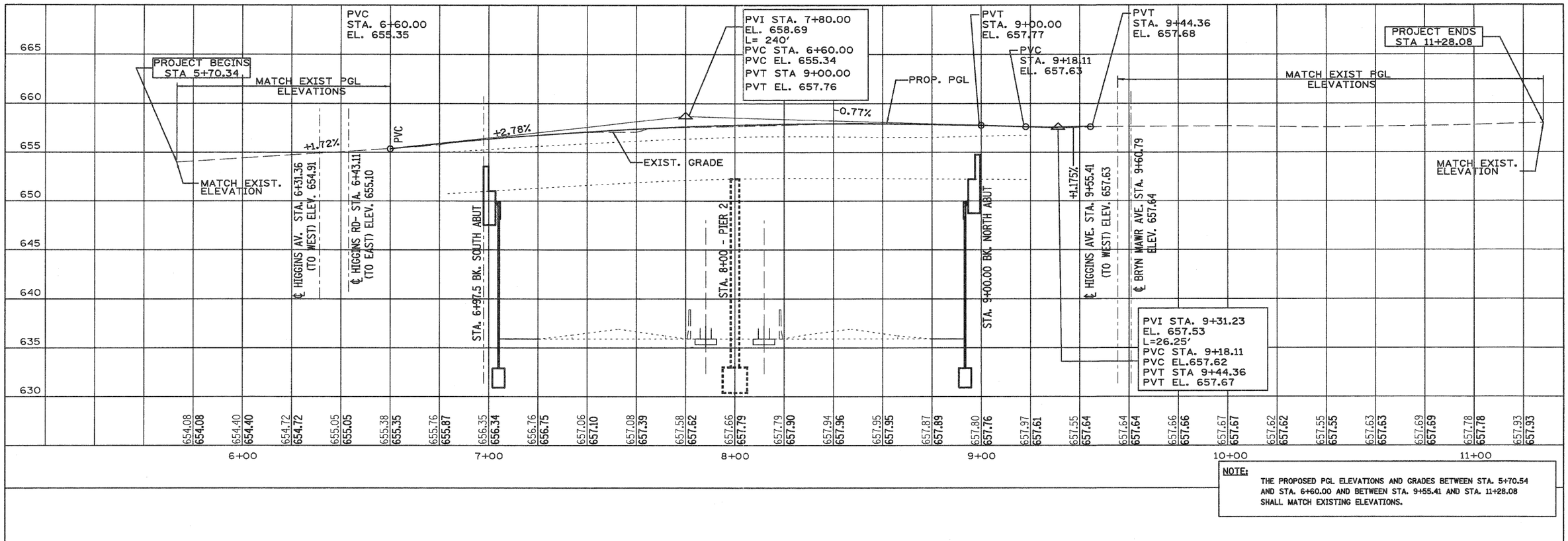
DESIGNED	TS	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	JS	REVISED	-
CHECKED	TPP	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101
SCALE: NONE | SHEET NO. X OF X SHEETS | STA. | TO STA.

ORIOLE AVE, OVER KENNEDY EXPWY
DETAIL SHEET

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	25
		CONTRACT NO. 60M79		
	ILLINOIS	FED. AID PROJECT		



NOTE:
THE PROPOSED PGL ELEVATIONS AND GRADES BETWEEN STA. 5+70.54 AND STA. 6+60.00 AND BETWEEN STA. 9+55.41 AND STA. 11+28.08 SHALL MATCH EXISTING ELEVATIONS.

PLAN — SURVEYED — PLOTTED — GRADES CHECKED — BM. NOTED — ST. OF WAY CHECKED — CADD FILE NAME — NOTE BOOK — NO. — BY — DATE

PROFILE — SURVEYED — PLOTTED — GRADES CHECKED — BM. NOTED — STRUCTURE NOTATIONS CHKD — NOTE BOOK — NO. — BY — DATE

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	RT	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	JJE	REVISED	-
CHECKED	TPP	REVISED	-

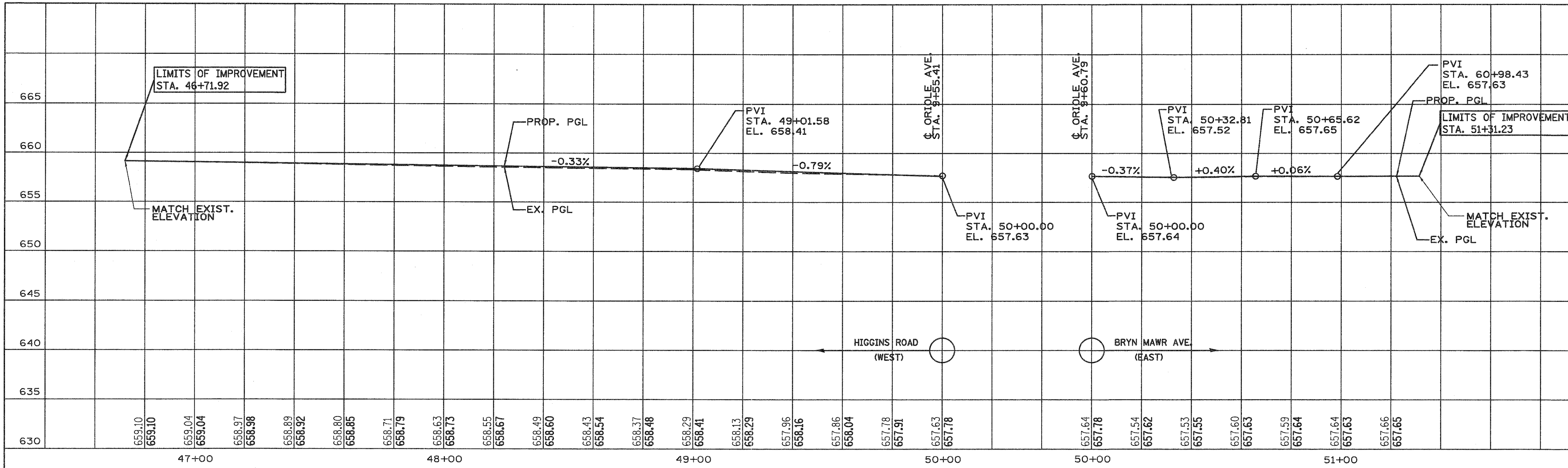
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

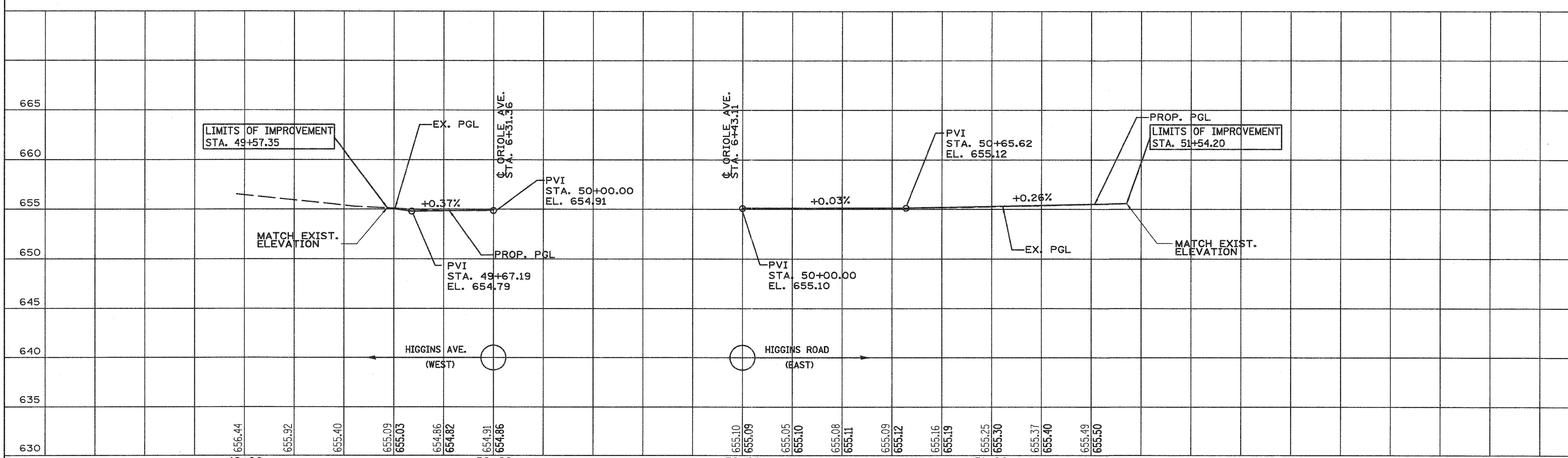
ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101
SCALE: 1" = 20' | SHEET NO. X OF X SHEETS | STA. 5+70.34 TO STA. 1+28.08

ROADWAY PROFILE
ORIOLE AVE. AT I-90

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	26
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			

H:\IDOT\2009-246 PTB 153 Item 21\016-1101\Oriole_FinalEngineering\Plan Sheets\26-020pro01v8.dgn 4:47:46 PM 11/3/2011





ABNA DESIGN FIRM REG. 184.002117

9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	JJE	REVISED	-
CHECKED	TPP	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

SCALE: 1" = 20' | SHEET NO. X OF X SHEETS | STA. TO STA.

ROADWAY PROFILE
HIGGINS ROAD, HIGGINS AVENUE & BRYN MAWR AVENUE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	27
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			

H:\IDOT\2009-246 PTB 153 Item 21\016-1101\Oriole_FinalEngineering\Plan Sheets\27-020pro02v8.dgn 4:49:07 PM 11/3/2011

(1) STA. 50+70.19, 20.32' LT
CB A 4' D T1 FOL CHG
ELEV. 654.46
INV. 650.52

(2) STA. 50+70.19, 21.02' RT
CB A 4' D T1 FOL CHG
ELEV. 654.40
INV. 650.26

(3) STA. 6+57.68, 22.94' LT
CB A 4' D T1 FOL CHG
ELEV. 654.96
INV. 650.92

(4) STA. 49+39.95, 21.26' RT
CB A 4' D T1 FOL CHG
ELEV. 657.11
INV. 652.85

LIMITS OF IMPROVEMENTS STA 49+57.35

NOTE:
OFFSETS & ELEVATIONS FOR PROPOSED DRAINAGE STRUCTURES ARE SHOWN TO EDGE OF PAVEMENT.

GAS MAIN TO BE RELOACATED BY OTHERS

SS REMOVAL 8", 5.0'
*SS CL A 1 8", 5.0'
TBF 1.4 CU YD

MATCHLINE STA. 49+27.82
SEE SHEET NO. 29

SS CL A 1 8", 16'
TBF 5.8 CU YD

HIGGINS AVE.

HIGGINS RD.

TO BE RELOCATED

NOTE 6

SEE ELECTRICAL PLANS

℄ ORIOLE AVE.

PROJECT BEGINS STA 5+70.34

SS REMOVAL 8", 32.8'

SS CL A 1 8", 5.0'*
TBF 1.4 CU YD
SS REMOVAL 8", 5.0'

SS REMOVAL 8", 27.9'

SS CL A 1 8", 22.0'
TBF 7.7 CU YD

LIMITS OF IMPROVEMENTS STA 51+54.20

886' 4½" MCD

BRYN MAWR AVE.

LIMITS OF IMPROVEMENTS STA 51+31.23

MATCHLINE STA. 10+46.06
SEE SHEET NO. 29

* MATCH EXISTING SLOPE

LEGEND

MH ADJ	CITY ELECTRIC MANHOLE TO BE ADJUSTED (SEE ELECTRICAL DRAWINGS)
SSC	STORM SEWERS TO BE CLEANED
AB	ITEM TO BE ABANDONED
A	CATCH BASINS TO BE ADJUSTED WITH NEW FRAME & OPEN LID (CITY OF CHICAGO)
R	STRUCTURE TO BE REMOVED
Ⓐ	MANHOLES TO BE ADJUSTED WITH NEW FRAME & CLOSED LID (CITY OF CHICAGO)
I	INLETS TO BE ADJUSTED WITH NEW FRAME AND GRATE
IBT	IBT MANHOLES TO BE ADJUSTED (BY OTHERS)

NOTES:

1. EXISTING UTILITY LOCATIONS ARE BASED ON AVAILABLE UTILITY COMPANY RECORDS AND ARE SUBJECT TO CHANGE AND VERIFICATION IN THE FIELD AT THE TIME OF CONSTRUCTION.
2. ALL DRAINAGE STRUCTURES TO BE CLEANED UPON COMPLETION OF THE RESURFACING OPERATIONS.
3. STORM SEWERS TO BE CLEANED INCLUDE ALL DIAMETERS.
4. WATER VALVE VAULTS WILL NOT BE ADJUSTED. AFTER THE BITUMINOUS SURFACE REMOVAL AROUND THE STRUCTURE, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE A BITUMINOUS MIXTURE AROUND THE CASTING. FLUSH WITH ITS SURFACE AND DECREASING TO A FEATHEREDGE IN A DISTANCE OF 2.0' AROUND THE ENTIRE SURFACE OF CASTING. PAYMENT FOR THIS WORK WILL BE CONSIDERED INCLUDED IN THE BITUMINOUS SURFACE REMOVAL PAY ITEM.
5. 8" DIA. STORM SEWER SHALL BE INSTALLED AT A MINIMUM OF 0.54% SLOPE.
6. MAIL BOX/STORAGE BOX TO BE RELOCATED BY OTHERS.

PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, GRADES CHECKED, R.O.W. CHECKED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., CADD FILE NAME, BY, DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

PVC STA. 6+60.00 EL. 655.34

PVI STA. 7+80.00
EL. 658.69
L= 240'-0"
E= -1'-0¾"
PVC STA. 6+60.00
PVC EL. 655.34
PVT STA 9+00.00
PVT EL. 657.76

PROJECT BEGINS STA 5+70.34

MATCH EXIST PGL ELEVATIONS

EXIST. PGL

PROP. PGL

MATCH LINE STA 10+46.06

MATCH EXIST PGL ELEVATIONS

+1.72%

+2.786%

-0.771%

+1.175%

℄ HIGGINS AV. STA. 6+31.36 (TO WEST) ELEV. 654.91

℄ HIGGINS RD. STA. 6+43.11 (TO EAST) ELEV. 655.10

℄ HIGGINS AVE. STA. 9+55.41 (TO WEST) ELEV. 657.63

℄ BRYN MAWR AVE. STA. 9+60.79 ELEV. 657.64

STA. 8+00 - PIER 2

EXISTING 15" SEWER

PVI STA. 9+31.23
EL. 657.58
L=26'-3"
E=
PVC STA. 9+18.11
PVC EL.657.62
PVT STA 9+44.36
PVT EL. 657.67

665 660 655 650 645 640 635 630

654.08 654.08 | 654.40 654.40 | 654.72 654.72 | 655.05 655.05 | 655.38 655.35 | 655.76 655.87 | 656.35 656.34 | 656.76 656.75 | 657.06 657.10 | 657.08 657.39 | 657.58 657.62 | 657.66 657.79 | 657.79 657.91 | 657.94 657.96 | 657.95 657.95 | 657.87 657.89 | 657.80 657.76 | 657.97 657.61 | 657.55 657.64 | 657.64 657.64 | 657.66 657.66 | 657.67 657.67 | 657.62 657.62 | 657.55 657.55

6+00 7+00 8+00 9+00 10+00

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

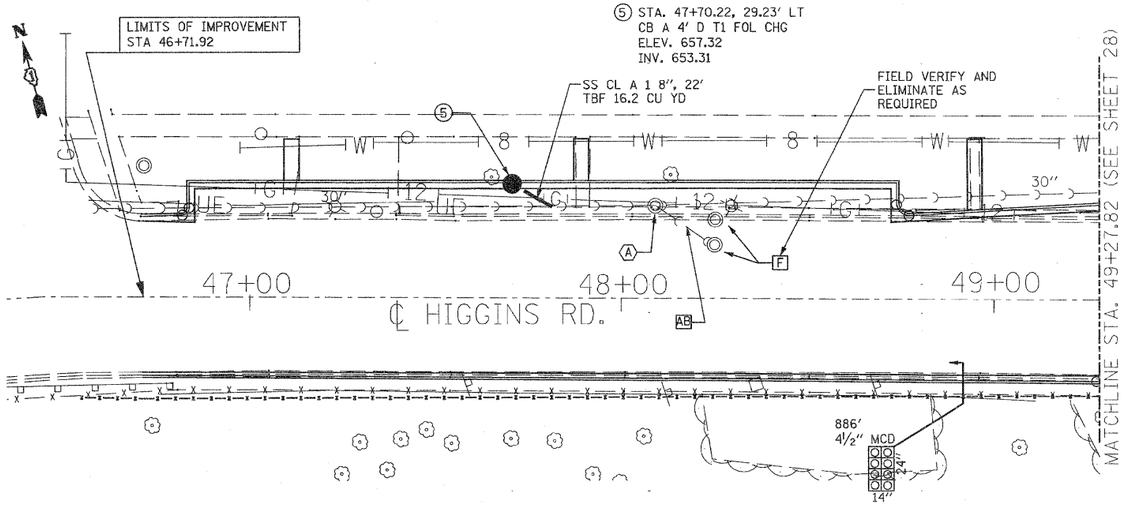
DESIGNED	TS	REVISED -
CHECKED	TPP	REVISED -
DRAWN	JS	REVISED -
CHECKED	TPP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101
SCALE: 1" = 20' | SHEET NO. X OF X SHEETS | STA. 0+930.00 TO STA. 1+075.000

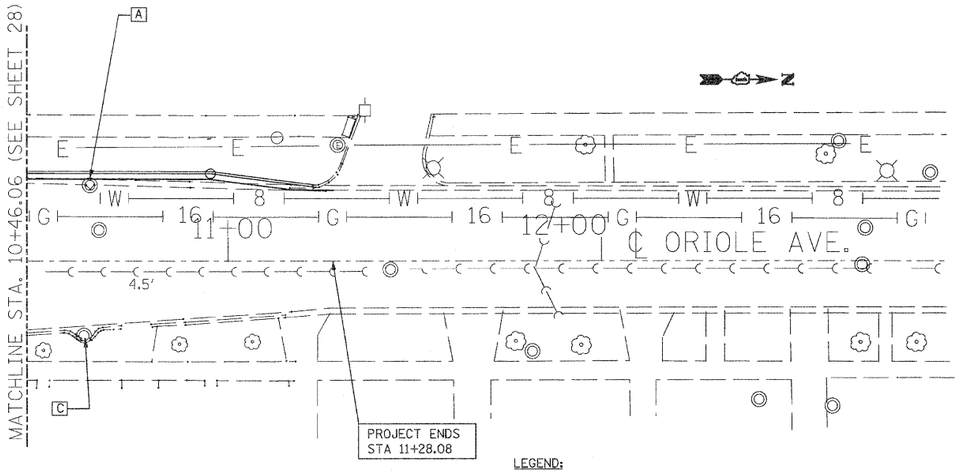
DRAINAGE AND UTILITY PLAN
ORIOLE AVENUE AT I-90

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	28
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			



HIGGINS ROAD-WEST LEG

OFFSETS & ELEVATIONS FOR PROPOSED DRAINAGE STRUCTURES ARE SHOWN TO EOP.



ORIOLE AVE

NOTES:

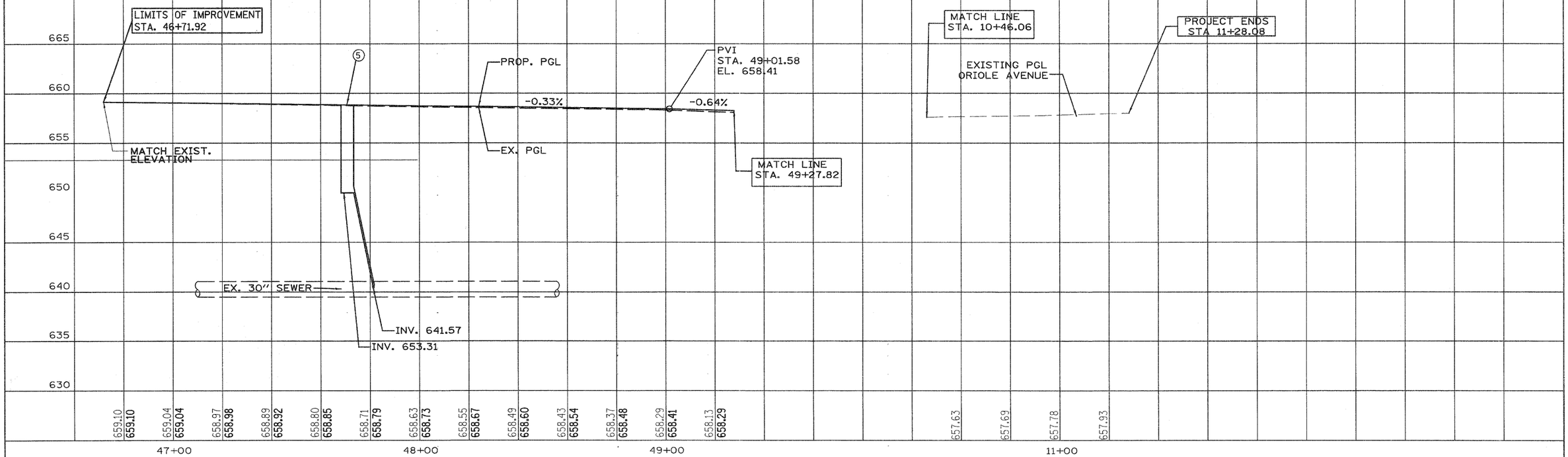
1. ADJUSTMENT OF DOMESTIC WATER SERVICE BOXES WITHIN THE PROJECT LIMITS SHALL BE PAID FOR AS "DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED".

LEGEND:

- [C] STRUCTURE TO BE CLEANED
- ⟨A⟩ MANHOLES TO BE ADJUSTED WITH NEW FRAME & CLOSED LID (CITY OF CHICAGO)
- [AB] ITEM TO BE ABANDONED
- [A] CATCH BASINS TO BE ADJUSTED WITH NEW FRAME & OPEN LID (CITY OF CHICAGO)
- [F] FILLING CATCH BASINS

PLAN — DATE / BY / SURVEYED / PLOTTED / GRADES CHECKED / R.O.W. CHECKED / STRUCTURE NO(S)/STA'S CK'D / NOTE BOOK / NO.

PROFILE — DATE / BY / SURVEYED / PLOTTED / GRADES CHECKED / R.O.W. CHECKED / STRUCTURE NO(S)/STA'S CK'D / NOTE BOOK / NO.



ABNA
DESIGN FIRM REG. 184.002117

9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	JS	REVISED	-
CHECKED	TPP	REVISED	-

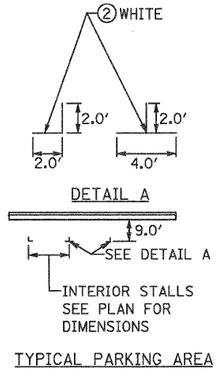
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

SCALE: 1" = 20' | SHEET NO. X OF X SHEETS | STA. | TO STA.

DRAINAGE AND UTILITY PLAN
ORIOLE AVENUE AT I-90

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	29
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			

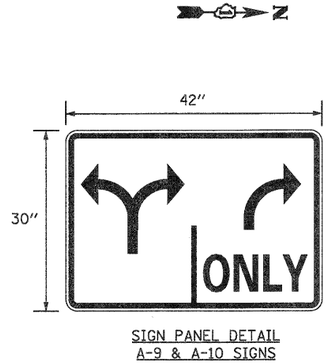


TYPICAL PARKING AREA

SIGN SCHEDULE

SIGN NO	EXIST LOCATION	PROPOSED LOCATION	RELOCATE SIGN PANEL TYPE 1		SIGN PANEL TYPE 1		SIGN PANEL TYPE 2		METAL POST TYPE B
			TYPE		TYPE	AREA	TYPE	AREA	
A-1	—	Sta 5+84.78± RT		—	R1-1	6.25 SQFT			13.45 FT
A-2	Sta 6+51.37± RT	Sta 6+57.61± RT	R1-1	6.25 SQFT					
A-3	Sta 6+75.33± LT	Sta 6+68.44± LT	R1-1	6.25 SQFT					
A-4	Sta 9+07.61± RT	Sta 9+25.33± RT	R1-1	6.25 SQFT					
A-5	Sta 9+40.42± LT	Sta 9+53.22± LT	R1-1	6.25 SQFT					
A-6	Sta 10+16.86± LT	Sta 10+18.83± LT	R1-1	6.25 SQFT					
A-7	—	Sta 9+58.14± LT		—	R5-1	6.25 SQFT			
A-8	—	Sta 9+58.14± LT		—	R1-1	6.25 SQFT			13.45 FT
A-9		Sta 46+75.20± RT					*	8.75 SQFT	27.56 FT
A-10		Sta 51+50.92± LT					*	8.75 SQFT	27.56 FT
		TOTAL		32.25 SQFT		18.75 SQFT		17.50 SQFT	82.02 FT

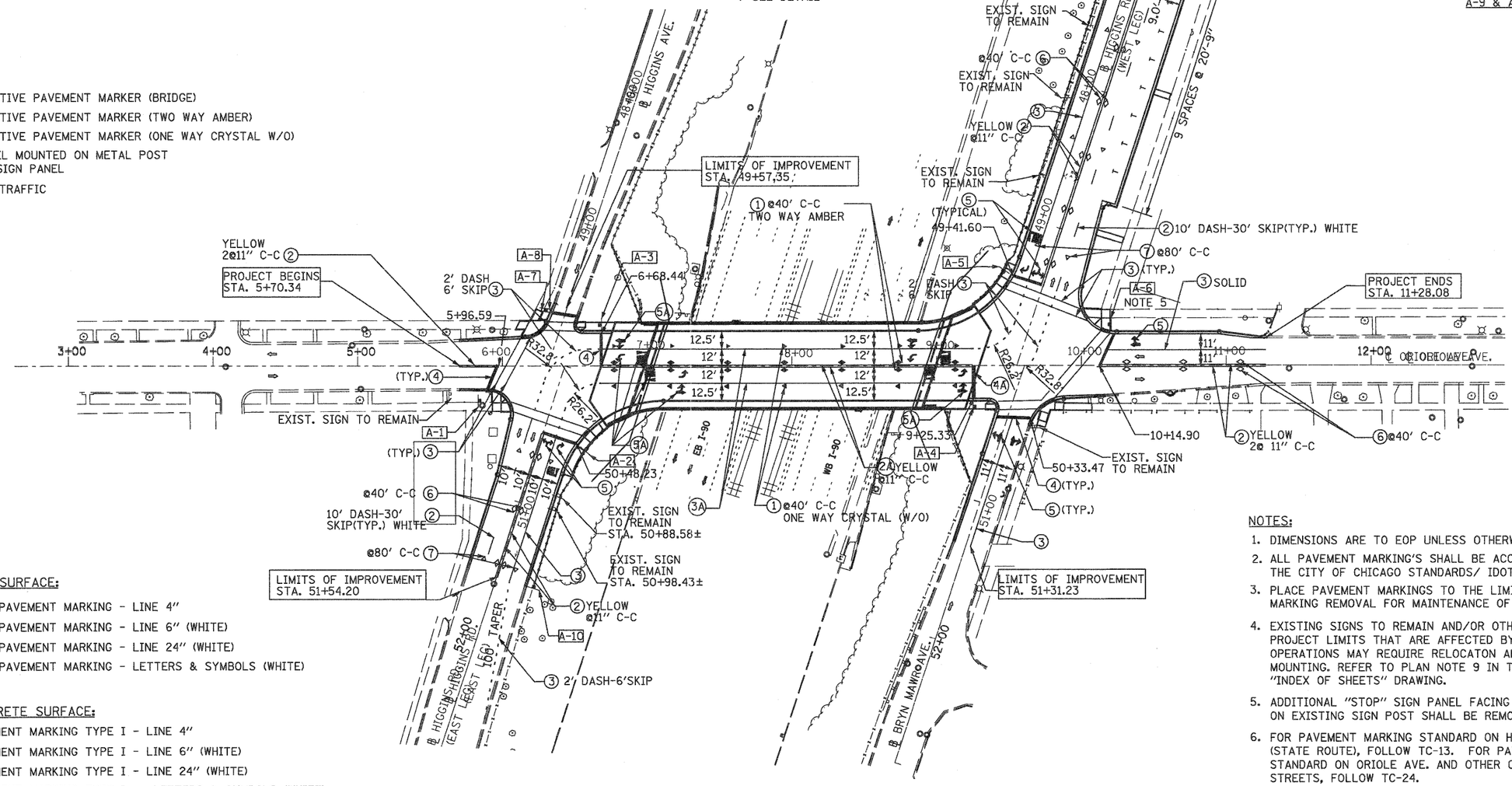
* SEE DETAIL



SIGN PANEL DETAIL
A-9 & A-10 SIGNS

LEGEND:

- ◆ OR ◀ (1) RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)
- ◇ (6) RAISED REFLECTIVE PAVEMENT MARKER (TWO WAY AMBER)
- ▷ (7) RAISED REFLECTIVE PAVEMENT MARKER (ONE WAY CRYSTAL W/O)
- NEW SIGN PANEL MOUNTED ON METAL POST OR RELOCATE SIGN PANEL
- ⇨ DIRECTION OF TRAFFIC



LEGEND FOR HMA SURFACE:

- (2) THERMOPLASTIC PAVEMENT MARKING - LINE 4"
- (3) THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE)
- (4) THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)
- (5) THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE)

LEGEND FOR CONCRETE SURFACE:

- (2A) POLYUREA PAVEMENT MARKING TYPE I - LINE 4"
- (3A) POLYUREA PAVEMENT MARKING TYPE I - LINE 6" (WHITE)
- (4A) POLYUREA PAVEMENT MARKING TYPE I - LINE 24" (WHITE)
- (5A) POLYUREA PAVEMENT MARKING TYPE I - LETTERS & SYMBOLS (WHITE)

NOTES:

1. DIMENSIONS ARE TO EOP UNLESS OTHERWISE MARKED.
2. ALL PAVEMENT MARKING'S SHALL BE ACCORDING TO THE CITY OF CHICAGO STANDARDS/ IDOT STANDARDS.
3. PLACE PAVEMENT MARKINGS TO THE LIMITS OF PAVEMENT MARKING REMOVAL FOR MAINTENANCE OF TRAFFIC.
4. EXISTING SIGNS TO REMAIN AND/OR OTHER SIGNS WITHIN PROJECT LIMITS THAT ARE AFFECTED BY CONSTRUCTION OPERATIONS MAY REQUIRE RELOCATON AND/OR TEMPORARY MOUNTING. REFER TO PLAN NOTE 9 IN THE "INDEX OF SHEETS" DRAWING.
5. ADDITIONAL "STOP" SIGN PANEL FACING SOUTH INSTALLED ON EXISTING SIGN POST SHALL BE REMOVED.
6. FOR PAVEMENT MARKING STANDARD ON HIGGINS ROAD (STATE ROUTE), FOLLOW TC-13. FOR PAVEMENT MARKING STANDARD ON ORIOLE AVE. AND OTHER CITY OF CHICAGO STREETS, FOLLOW TC-24.

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

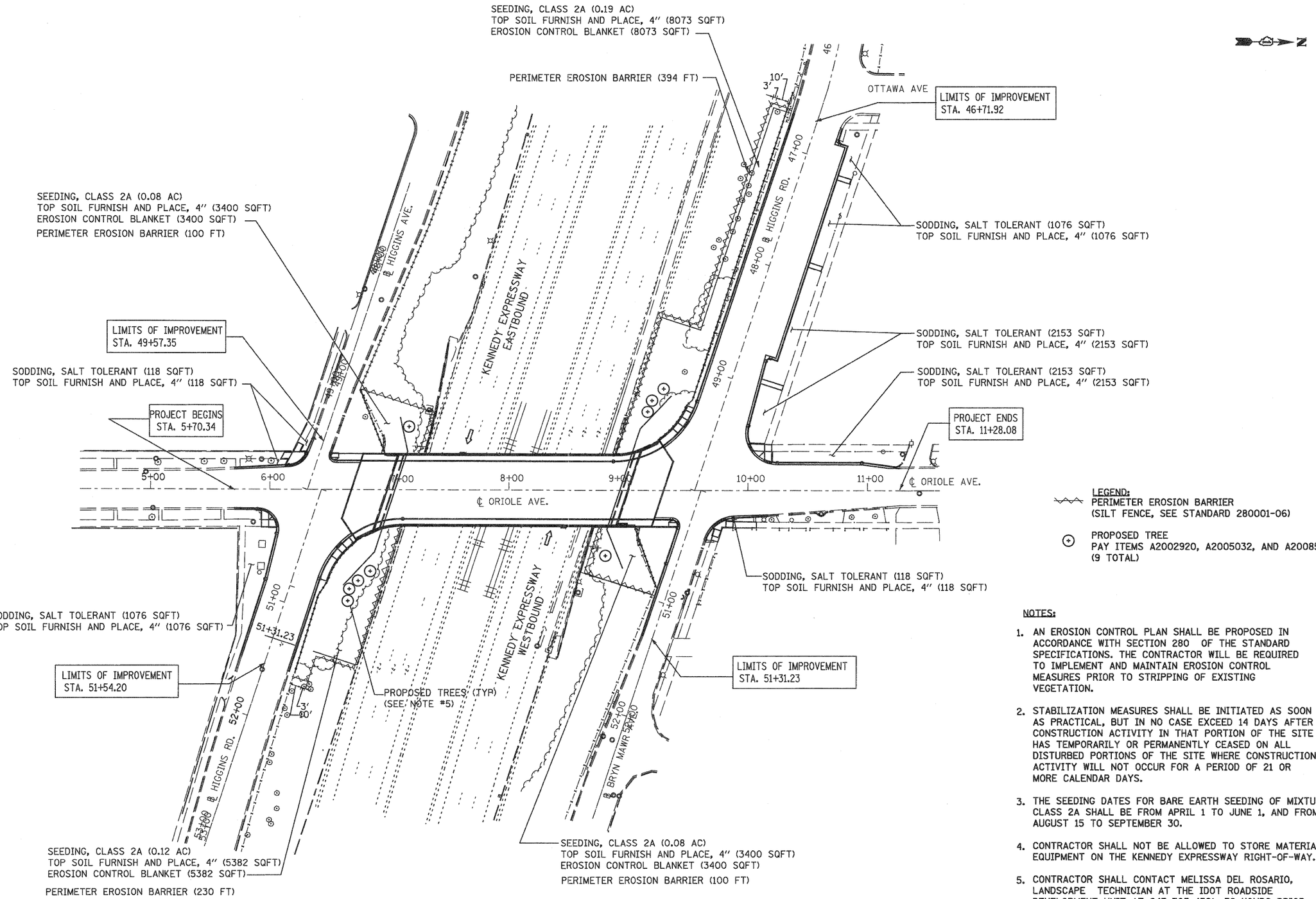
DESIGNED	TS	REVISED -
CHECKED	TPP	REVISED -
DRAWN	JS	REVISED -
CHECKED	TPP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101
SCALE: 1" = 40' | SHEET NO. X OF X SHEETS | STA. | TO STA.

PROPOSED PAVEMENT MARKING AND SIGNING PLAN

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	30
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			



LEGEND:
- PERIMETER EROSION BARRIER (SILT FENCE, SEE STANDARD 280001-06)
- PROPOSED TREE PAY ITEMS A2002920, A2005032, AND A2008519 (9 TOTAL)

NOTES:

1. AN EROSION CONTROL PLAN SHALL BE PROPOSED IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES PRIOR TO STRIPPING OF EXISTING VEGETATION.
2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL, BUT IN NO CASE EXCEED 14 DAYS AFTER CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED ON ALL DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY WILL NOT OCCUR FOR A PERIOD OF 21 OR MORE CALENDAR DAYS.
3. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 2A SHALL BE FROM APRIL 1 TO JUNE 1, AND FROM AUGUST 15 TO SEPTEMBER 30.
4. CONTRACTOR SHALL NOT BE ALLOWED TO STORE MATERIALS OR EQUIPMENT ON THE KENNEDY EXPRESSWAY RIGHT-OF-WAY.
5. CONTRACTOR SHALL CONTACT MELISSA DEL ROSARIO, LANDSCAPE TECHNICIAN AT THE IDOT ROADSIDE DEVELOPMENT UNIT AT 847-705-4391, 72 HOURS PRIOR TO PLANTING FOR LAYOUT OF TREES.

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	JS	REVISED	-
CHECKED	TPP	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101
SCALE: 1" = 40' | SHEET NO. X OF X SHEETS | STA. | TO STA.

LANDSCAPING & EROSION CONTROL PLAN HIGGINS ROAD & ORIOLE AVE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	31
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			

ELECTRICAL NOTES:

1. ALL WORK AND MATERIAL SHALL COMPLY WITH ALL APPLICABLE LATEST REQUIREMENTS OF THE NATIONAL AND CHICAGO ELECTRICAL CODES, NATIONAL ELECTRICAL SAFETY CODES, ELECTRIC POWER COMPANY, TELEPHONE COMPANY, THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA); STANDARDS AND REQUIREMENTS OF IDOT AND BUREAU OF ELECTRICITY, CITY OF CHICAGO.
2. ALL MATERIAL SHALL BE NEW AND UNDERWRITERS LABORATORY LISTED AS SUITABLE FOR THE PURPOSE INTENDED, UNLESS NOTED OTHERWISE.
3. ALL SYSTEMS WHICH ARE INCLUDED AS PART OF THE ELECTRICAL INSTALLATION FOR THIS PROJECT SHALL BE COMPLETE IN ALL DETAILS INCLUDING ALL COMPONENTS REQUIRED FOR PROPER AND SATISFACTORY OPERATION, EVEN IF ALL REQUIRED COMPONENTS AND APPURTENANCES ARE NOT SHOWN ON THE CONTRACT DRAWINGS AND/OR MENTIONED IN THE SPECIFICATIONS.
4. REFER TO, AND COMPLY WITH CITY OF CHICAGO, BUREAU OF ELECTRICITY STANDARDS, DRAWINGS, DETAILS AND ALL APPLICABLE REQUIREMENTS, FOR A COMPLETE, FUNCTIONAL AND APPROVED STREET LIGHTING SYSTEM INSTALLATION.
5. VERIFY EXISTING CONDITIONS AND LOCATIONS IN FIELD PRIOR TO SUBMITTING PROPOSAL. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING THE WORK AS PART OF THIS CONTRACT INCLUDE IN PROPOSAL ANY RELOCATION OR ALTERATION OF EXISTING ELECTRICAL SYSTEM, EQUIPMENT OR COMPONENTS WHICH IS REQUIRED TO CLEAR THE NEW CONSTRUCTION, ADDITIONS OR ALTERATIONS TO BE PERFORMED.
6. NOTIFY THE ENGINEER, IN WRITING, OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND NEW WORK, OR BETWEEN ELECTRICAL WORK, AND THE WORK OF OTHER TRADES PRIOR TO SUBMITTING PROPOSAL. LACK OF SUCH NOTIFICATION SHALL BE CONSTRUED TO INDICATE NO DISCREPANCIES OR CONFLICTIONS EXIST. ADDITIONAL COMPENSATION WILL NOT BE GRANTED AFTER AWARD OF CONTRACT FOR ANY WORK REQUIRED TO COMPLY WITH THESE REQUIREMENTS.
7. CONTRACTOR SHALL MAINTAIN POWER TO EXISTING LIGHTING SYSTEM TO REMAIN DURING CONSTRUCTION. THIS WORK SHALL BE INCLUDED IN THE COST OF "RELOCATE EXISTING LIGHTING UNIT".
8. THE OPERATION OF THE EXISTING STREET LIGHTING, UNDERPASS LIGHTING AND OTHER SYSTEMS SHALL NOT BE DISRUPTED DURING THE EXECUTION OF THIS WORK WITHOUT PRIOR AUTHORIZATION BY THE ENGINEER. SHUT DOWN OF SERVICES SHALL ONLY BE PERMITTED UPON WRITTEN APPROVAL FROM THE ENGINEER AND THEN ONLY FOR THE DATE AND DURATION AGREED UPON.
9. VERIFY IN THE FIELD, ROUTING AND POINT OF ORIGIN OF EXISTING UNDERGROUND CONDUITS FOR POWER FEEDS TO STREET LIGHTING AFFECTED BY NEW WORK. FOR NEW UNDERGROUND INSTALLATION MINIMUM BURIAL DEPTH OF THE DUCT SHALL BE 750 mm (30 INCHES). ANY EXPOSED CONDUIT ON STRUCTURE SHALL BE HEAVY WALL GALVANIZED STEEL, PVC COATED.
10. DISCONNECT, REMOVE OR RELOCATE ALL EXISTING ELECTRICAL ITEMS AND EQUIPMENT, INCLUDING BUT NOT LIMITED TO LIGHTING SYSTEM (POLES, FIXTURES, CONTROLLERS, ETC.) CONDUITS, WIRING, AND OTHER MATERIAL GENERALLY CONSIDERED PART OF ELECTRICAL WORK WHICH INTERFERE WITH, OBSTRUCT OR ARE OBSTRUCTED BY THESE RECONSTRUCTIONS, OR ARE REQUIRED DURING THE COURSE OF THESE RECONSTRUCTIONS. PERMANENTLY INSTALL SUCH ITEMS IN NEW LOCATIONS AS DIRECTED OR AS SHOWN ON THE PLANS. PROVIDE NEW CONDUITS, WIRING, HANDHOLES, ETC., AS REQUIRED FOR SUCH RELOCATION. RECONNECT SUCH ITEMS AS REQUIRED TO MAINTAIN PROPER OPERATION IN NEW LOCATIONS. INSTALL NEW HANDHOLE/MANHOLE WHERE REQUIRED FOR SPLICING. SPLICE NEW AND EXISTING WIRING IN MANHOLE/ HANDHOLE OR IN SPLICING BOX. EXTEND NEW CONDUIT AND WIRE WHERE APPLICABLE FROM EXISTING TO NEW LOCATION.
11. MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES, ROUTING OF NEW CONDUITS AND PUSHES OF UNDERGROUND CONDUITS, FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER AT THE PRECONSTRUCTION INSPECTION. THE EXACT LOCATIONS OF ALL ITEMS SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO STARTING WORK.
12. COORDINATE ALL ELECTRICAL WORK INCLUDING INSTALLATION OF NEW OR RELOCATED LIGHTING SYSTEM WITH EXISTING CONDITIONS, WORK OF OTHER TRADES AND CONSTRUCTION STAGING OF BRIDGE/ROADWAY WORK AS REQUIRED.
13. REMOVE EXISTING POLES DESIGNATED FOR REMOVAL UNDER THIS CONTRACT, REUSE THEM FOR TEMPORARY LIGHTING OR DELIVER TO CITY STORAGE SUCH REMOVED POLES AS REQUIRED OR AS INDICATED. CLEAN AND RELAMP THE EXISTING LUMINAIRES, IF REQUIRED TO REUSE AND/OR PERMANENTLY REINSTALLED THEM.
14. A STAGING SCHEDULE FOR MATERIAL INSTALLATION, REMOVAL AND APPROXIMATE DATE OF PROPOSED ENERGIZING OF PERMANENT LIGHTING SHALL BE SUBMITTED PRIOR TO THE COMMENCEMENT OF WORK TO ASSURE COORDINATION WITH THE COMPLETION OF WORK SCHEDULE.
15. VERIFY AND CONNECT THE PROPOSED UNDERPASS LIGHTING UNITS TO THE REQUIRED EXISTING CIRCUITS EXTENDED FROM THE EXISTING LIGHTING CONTROLLER "F" VIA LIGHTING STANDARDS LOCATED ON I-90 EMBANKMENT ON BOTH EAST AND WEST SIDE OF THE ORIOLE AVENUE BRIDGE.
16. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR THE MAINTENANCE OF THE ENTIRE EXISTING LIGHTING CIRCUIT, BUT SHALL INSTEAD INSTALL PROTECTIVE FUSES AT THE LOCATION WHERE WORK IS TO BE PERFORMED TO ISOLATE THE PROPOSED WORK FROM THE EXISTING SYSTEM. WHICH SHALL BE MAINTAINED OPERATIONAL DURING CONSTRUCTION.
17. MAKE NECESSARY MODIFICATIONS AND ADJUSTMENTS TO ALL ELECTRICAL ITEMS AND EQUIPMENT, BOTH NEW AND EXISTING, AS REQUIRED BY NEW CONSTRUCTION, ADDITIONS OR ALTERATIONS.
18. PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM, TEST THE ENTIRE INSTALLATION FOR GROUNDS, SHORTS, INSULATION RESISTANCE OR IMPROPER CONNECTION. APPLY DC VOLTAGE OF 1000 VOLTS FOR MEASUREMENT OF INSULATION RESISTANCE. (USE MOTOR DRIVEN MEGGER INSTRUMENT.) MINIMUM RESISTANCE OF LIVE PARTS TO GROUND SHALL BE 0.5 MEGOHM.
19. IDOT UNDERPASS LIGHTING SYSTEM VOLTAGE IS 480/240 VOLT, 1 PHASE. CITY OF CHICAGO STREET LIGHTING SYSTEM VOLTAGE IS 240/120 VOLT, 1 PHASE.
20. NEW OR RELOCATED STREET LIGHTING POLES SHALL BE LOCATED MIN. 900 mm OR 3'-0" FROM THE CURB FACE TO THE POLE CENTERLINE, UNLESS DIRECTED OTHERWISE.
21. THE PROPOSED UNDERPASS LIGHTING UNITS SHALL BE LOCATED WITH A MINIMUM OF 3.3' SETBACK FROM THE EDGE OF TRAVELED PAVEMENT.
22. ALL CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF ELECTRICAL EQUIPMENT AND MATERIAL, INCLUDED AS PART OF THIS CONTRACT, SHALL BE PROVIDED BY THIS CONTRACTOR.
23. PROVIDE NEW IDENTIFICATION NUMBERING BRACKETS AND LABELS FOR THE UNDERPASS LIGHTING UNITS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM FOR UNDERPASS LUMINAIRE.
24. MATERIAL QUANTITIES NOTED IN THE BILL OF MATERIAL ARE ESTIMATION ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL QUANTITIES PRIOR TO ORDERING MATERIALS.
25. THE EXISTING ROADWAY LIGHTING ON ORIOLE AVE. IS OWNED BY THE CITY OF CHICAGO.
26. THE CONTRACTOR SHALL NOTE THAT THERE IS AN EXISTING CONDUIT DUCT BANK ATTACHED TO THE BOTTOM OF THE BRIDGE DECK, OWNED BY THE CITY OF CHICAGO. THE CONTRACTOR SHALL COORDINATE ALL NECESSARY WORK WITH CITY OF CHICAGO FOR THE PROPER REMOVAL, TEMPORARY REROUTING AND INSTALLATION REQUIRED TO MAINTAIN CONTINUITY OF SERVICES PRESENTLY PROVIDED THROUGH THESE CONDUITS. THE CONTRACTOR SHALL NOTE THAT THE DUCTS MAY HAVE ASBESTOS CONCRETE INSULATION AND PROPER CARE, AS REQUIRED BY EPA, MUST BE TAKEN FOR THE PROPER REMOVAL OF THESE DUCTS.. REFER TO REMOVAL OF CONCRETE DECK IN "SPECIAL PROVISIONS" FOR DEMOLITION.
27. VERIFY THE CORRECT BOLT CIRCLE SIZE FOR THE LIGHT POLE (PROVIDED BY CITY OF CHICAGO) TO BE INSTALLED ON THE BRIDGE PARAPET. PROVIDE THE STRUCTURAL CONTRACTOR WITH A BOLT CIRCLE TEMPLATE OF THE PROPOSED POLE FOR SETTING OF THE ANCHOR BOLTS FOR POLES TO BE LATER INSTALLED BY THIS CONTRACTOR. AS A PRECAUTION, VERIFY THE SETTING OF BOLTS PRIOR TO POURING OF CONCRETE MIX.
28. ALL SIGNAGE ATTACH TO LIGHT STANDARDS TO REMAIN OR BE RELOCATED SHALL REMAIN UNDISTURBED.

STREET LIGHTING INSTALLATION BILL OF MATERIALS

DESCRIPTION	UNIT	QUANTITY
REMOVE EXISTING STREET LIGHTING EQUIPMENT	L.S.	1
ELECTRIC CABLE IN CONDUIT, TRIPLEX 2-1/C #6, 1-1/C #8 GROUND	FOOT	2162
INSTALL LIGHT POLE, MAST ARM AND LUMINAIRE (PROVIDED BY CITY OF CHICAGO)	EACH	5
UNDERGROUND CONDUIT 2½" DIA., GALVANIZED STEEL	FOOT	216
UNDERGROUND CONDUIT 4" DIA., GALVANIZED STEEL	FOOT	702
CONDUIT ATTACHED TO STRUCTURE,4" DIA. PVC COATED, GALVANIZED STEEL	FOOT	1270
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA. PVC	FOOT	427
DRILL EXISTING MANHOLE OR HANDHOLE	EACH	33
CONDUIT SUPPORT SYSTEM	L.S.	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
CONCRETE FOUNDATION 24" DIAMETER	FOOT	53.1
RELOCATE EXISTING LIGHTING UNIT	EACH	4
PAINT EXISTING POLE COMPLETE	EACH	4
RELOCATE EXISTING LIGHTING CONTROLLER	EACH	1
UNDERGROUND CONDUIT 3" DIA., GALVANIZED STEEL	FOOT	650
UNDERGROUND CONDUIT 2" DIA., GALVANIZED STEEL	FOOT	718
ADJUST EXISTING ELECTRICAL MANHOLE WITH 24" FRAME AND LID	EACH	5
ADJUST EXISTING ELECTRICAL MANHOLE WITH 30" FRAME AND LID	EACH	1
ELECTRICAL SERVICE INSTALLATION	EACH	1
ELECTRICAL UTILITY SERVICE CONNECTION	L.S.	1
ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 3 - 1/C No. 1/0	FOOT	460
REMOVE EXISTING MANHOLE	EACH	1
ELECTRICAL MANHOLE 36"' x 48"' x 48" WITH 24" FRAME AND LID	EACH	1

UNDERPASS LIGHTING INSTALLATION BILL OF MATERIALS

DESCRIPTION	UNIT	QUANTITY
UNDERPASS LUMINAIRE 55W, LOW PRESSURE SODIUM VAPOR	EACH	16
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE 20" x 20" x 6"	EACH	2
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE 12" x 10" x 6"	EACH	8
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE 6" x 6" x 4"	EACH	16
ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 1/c No. 10	FOOT	2992
UNIT DUCT, 600V, 3-1/C NO.4, 1/C NO.6 (EPR-TYPE RHW) 1¼" DIA., POLYETHELENE	FOOT	302
CONDUIT ATTACHED TO STRUCTURE, 1" DIA. PVC COATED GALVANIZED STEEL	FOOT	951
CONDUIT ATTACHED TO STRUCTURE, 2 1/2" DIA. PVC COATED GALVANIZED STEEL	FOOT	151
UNDERGROUND CONDUIT 2½" DIA., GALVANIZED STEEL.	FOOT	66

ABBREVIATION LIST:

A	AMPS
A/C	AERIAL CABLE
BOE.	CHICAGO BUREAU OF ELECTRICITY
COMED	COMMONWEALTH EDISON CO.
C	CONDUIT
GS	GALVANIZED STEEL
GRD	GROUND
LTG	LIGHTING
MTD	MOUNTED
NTS	NOT TO SCALE
RGS	RIGID GALVANIZED STEEL HEAVY WALL CONDUIT
UON	UNLESS OTHERWISE NOTED
TYP	TYPICAL
W	WATTS OR WIRE
E	EXISTING TO REMAIN
XR	EXISTING TO BE REMOVED

ELECTRICAL SYMBOL LIST

- IDOT EXISTING UNDERPASS LIGHTING FIXTURE TO BE REMOVED AND REUSED FOR TEMPORARY LIGHTING DURING CONSTRUCTION
- IDOT PROPOSED STANDARD UNDERPASS LIGHTING FIXTURE. (55W LPS)
- [J] STAINLESS STEEL JUNCTION BOX
- —XR— EXISTING ELECTRIC LINE TO BE DISCONNECTED AND REMOVED
- PROPOSED WIRING AND CONDUIT; WIRING AND CONDUIT SIZES AS NOTED.
- E EXISTING ELECTRIC EQUIPMENT/LINE TO REMAIN.
- [M]E EXISTING ELECTRICAL MANHOLE
- [M]A ELECTRICAL MANHOLE TO BE ADJUSTED
- ⓗE EXISTING ELECTRICAL HANDHOLE
- [M] PROPOSED MANHOLE
- - - - PROPOSED EXPOSED CONDUIT RUN
- —R— EXISTING UNIT DUCT TO BE REMOVED
- ——— PROPOSED UNIT DUCT

EXISTING PLAN SHEETS	PROPOSED PLAN SHEETS
(RR) EXISTING LIGHTING UNIT TO BE REMOVED AND REINSTALLED	PROPOSED LIGHTING UNIT
(R) EXISTING LIGHTING UNIT TO BE REMOVED (OWNER SALVAGE)	(ER) LOCATION OF REINSTALLED LIGHTING UNIT
(E) EXISTING LIGHTING UNIT TO REMAIN	(E) EXISTING LIGHTING UNIT TO REMAIN
—A/C—E— EXISTING AERIAL ELECTRIC CABLE	

DWG. E-1

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	JS	REVISED	-
CHECKED	TPP	REVISED	-

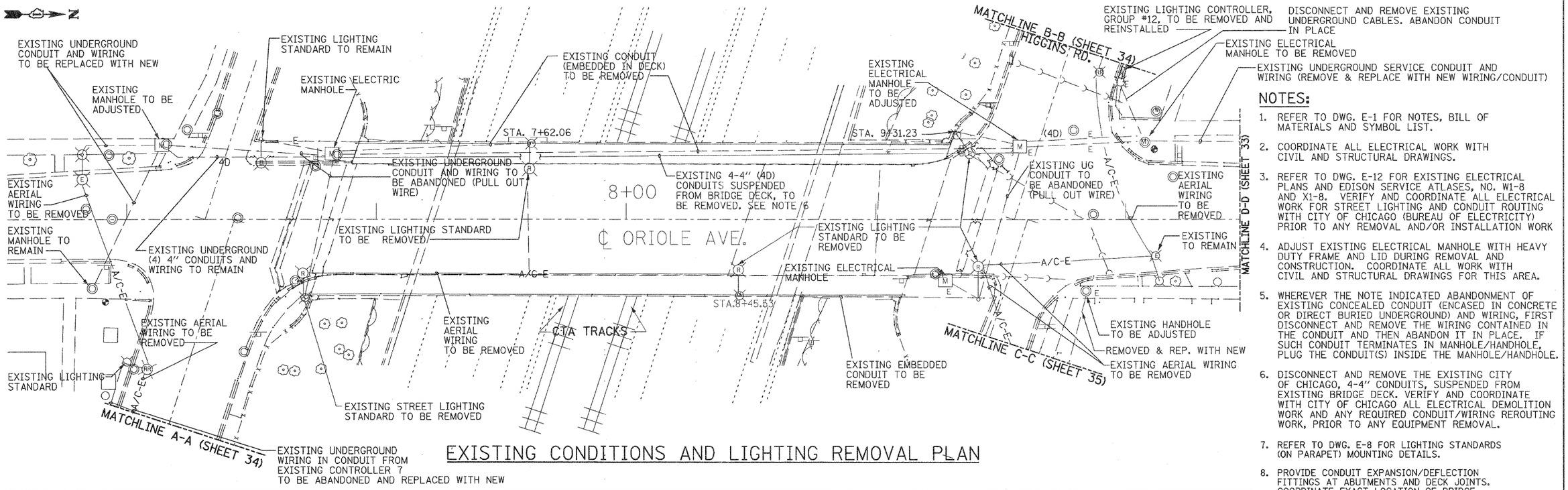
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101
SCALE: NONE | SHEET NO. XX OF XX SHEETS | STA. | TO STA.

ELECTRICAL NOTES, SYMBOL LIST AND BILL OF MATERIALS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	32
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			

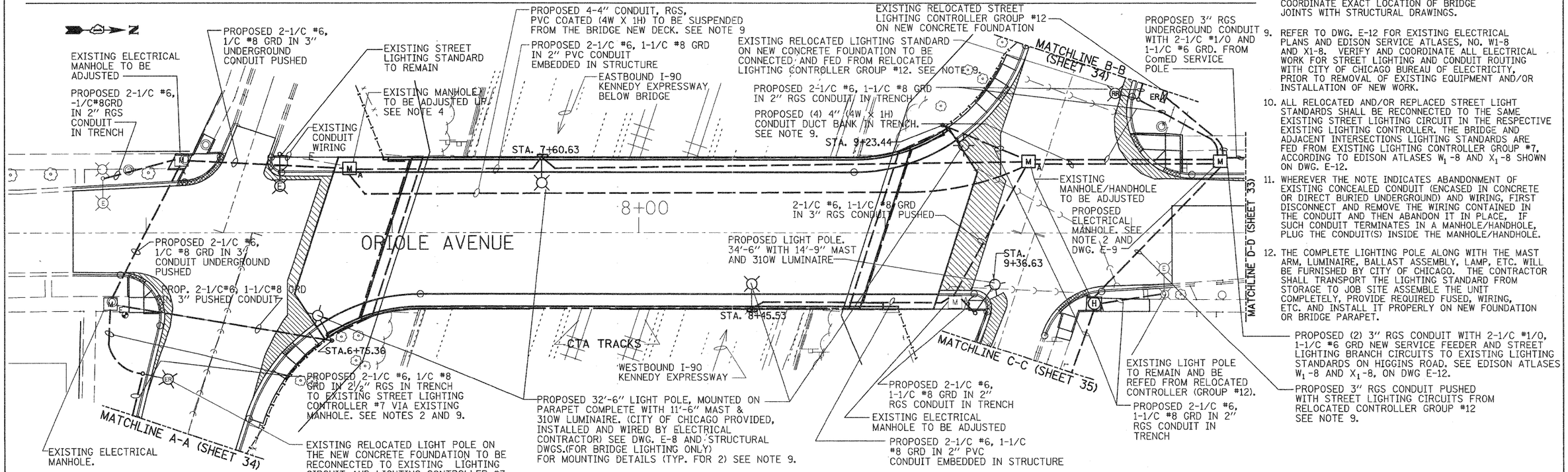
H:\DOT\2009-246 PTB 153 Item 21\016-1101\Oriole_FInalEngineering\Plan Sheets\33-020Htg02v8.dgn 1:37:21 PM 12/6/2011



EXISTING CONDITIONS AND LIGHTING REMOVAL PLAN

NOTES:

1. REFER TO DWG. E-1 FOR NOTES, BILL OF MATERIALS AND SYMBOL LIST.
2. COORDINATE ALL ELECTRICAL WORK WITH CIVIL AND STRUCTURAL DRAWINGS.
3. REFER TO DWG. E-12 FOR EXISTING ELECTRICAL PLANS AND EDISON SERVICE ATLASES, NO. W1-8 AND X1-8. VERIFY AND COORDINATE ALL ELECTRICAL WORK FOR STREET LIGHTING AND CONDUIT ROUTING WITH CITY OF CHICAGO (BUREAU OF ELECTRICITY) PRIOR TO ANY REMOVAL AND/OR INSTALLATION WORK
4. ADJUST EXISTING ELECTRICAL MANHOLE WITH HEAVY DUTY FRAME AND LID DURING REMOVAL AND CONSTRUCTION. COORDINATE ALL WORK WITH CIVIL AND STRUCTURAL DRAWINGS FOR THIS AREA.
5. WHEREVER THE NOTE INDICATED ABANDONMENT OF EXISTING CONCEALED CONDUIT (ENCASED IN CONCRETE OR DIRECT BURIED UNDERGROUND) AND WIRING, FIRST DISCONNECT AND REMOVE THE WIRING CONTAINED IN THE CONDUIT AND THEN ABANDON IT IN PLACE. IF SUCH CONDUIT TERMINATES IN MANHOLE/HANDHOLE, PLUG THE CONDUIT(S) INSIDE THE MANHOLE/HANDHOLE.
6. DISCONNECT AND REMOVE THE EXISTING CITY OF CHICAGO, 4-4" CONDUITS, SUSPENDED FROM EXISTING BRIDGE DECK. VERIFY AND COORDINATE WITH CITY OF CHICAGO ALL ELECTRICAL DEMOLITION WORK AND ANY REQUIRED CONDUIT/WIRING REROUTING WORK, PRIOR TO ANY EQUIPMENT REMOVAL.
7. REFER TO DWG. E-8 FOR LIGHTING STANDARDS (ON PARAPET) MOUNTING DETAILS.
8. PROVIDE CONDUIT EXPANSION/DEFLECTION FITTINGS AT ABUTMENTS AND DECK JOINTS. COORDINATE EXACT LOCATION OF BRIDGE JOINTS WITH STRUCTURAL DRAWINGS.
9. REFER TO DWG. E-12 FOR EXISTING ELECTRICAL PLANS AND EDISON SERVICE ATLASES, NO. W1-8 AND X1-8. VERIFY AND COORDINATE ALL ELECTRICAL WORK FOR STREET LIGHTING AND CONDUIT ROUTING WITH CITY OF CHICAGO BUREAU OF ELECTRICITY, PRIOR TO REMOVAL OF EXISTING EQUIPMENT AND/OR INSTALLATION OF NEW WORK.
10. ALL RELOCATED AND/OR REPLACED STREET LIGHT STANDARDS SHALL BE RECONNECTED TO THE SAME EXISTING STREET LIGHTING CIRCUIT IN THE RESPECTIVE EXISTING LIGHTING CONTROLLER. THE BRIDGE AND ADJACENT INTERSECTIONS LIGHTING STANDARDS ARE FED FROM EXISTING LIGHTING CONTROLLER GROUP #7, ACCORDING TO EDISON ATLASES W_1-8 AND X_1-8 SHOWN ON DWG. E-12.
11. WHEREVER THE NOTE INDICATES ABANDONMENT OF EXISTING CONCEALED CONDUIT (ENCASED IN CONCRETE OR DIRECT BURIED UNDERGROUND) AND WIRING, FIRST DISCONNECT AND REMOVE THE WIRING CONTAINED IN THE CONDUIT AND THEN ABANDON IT IN PLACE, IF SUCH CONDUIT TERMINATES IN A MANHOLE/HANDHOLE, PLUG THE CONDUIT(S) INSIDE THE MANHOLE/HANDHOLE.
12. THE COMPLETE LIGHTING POLE ALONG WITH THE MAST ARM, LUMINAIRE, BALLAST ASSEMBLY, LAMP, ETC. WILL BE FURNISHED BY CITY OF CHICAGO. THE CONTRACTOR SHALL TRANSPORT THE LIGHTING STANDARD FROM STORAGE TO JOB SITE ASSEMBLE THE UNIT COMPLETELY, PROVIDE REQUIRED FUSED, WIRING, ETC. AND INSTALL IT PROPERLY ON NEW FOUNDATION OR BRIDGE PARAPET.



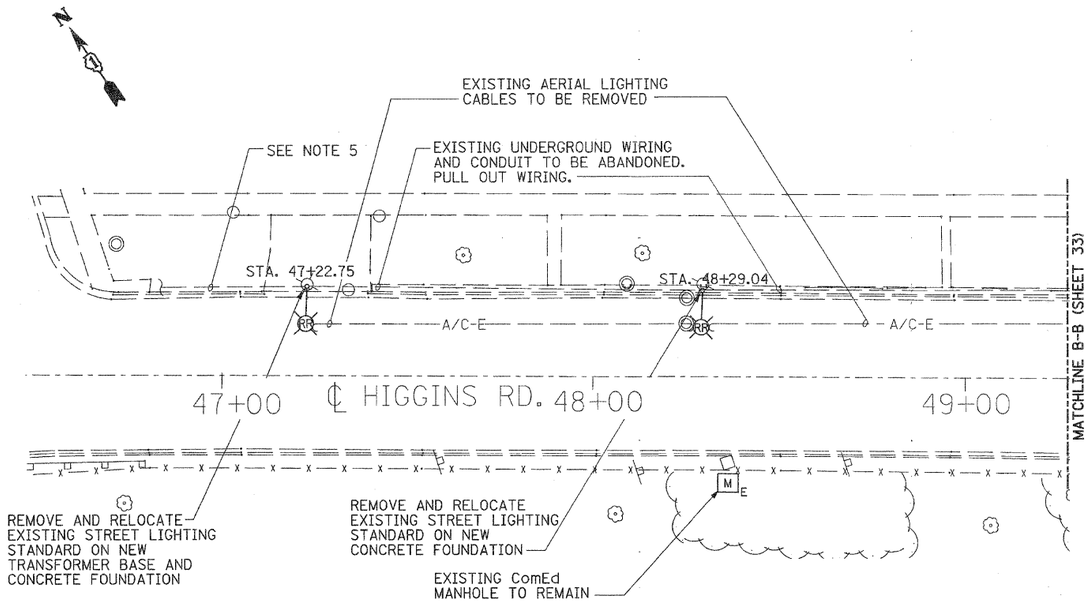
PROPOSED LIGHTING PLAN

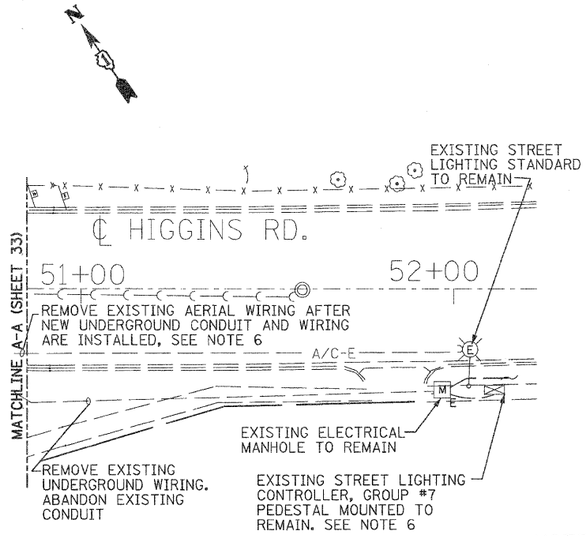
DWG. E-2

ABNA DESIGN FIRM REG. 184.002117	9901 S. Western Ave. Chicago, IL 60643 Ph. 773-881-4788 F: 773.239.3728	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ORIOLE AVENUE AT I-90 STRUCTURE NO. 016-1101
DESIGNED TS / REVISED -	DRAWN JS / REVISED -	CHECKED TPP / REVISED -	CHECKED TPP / REVISED -
SCALE: 1" = 20'	SHEET NO. E2 OF E14 SHEETS	STA.	TO STA.

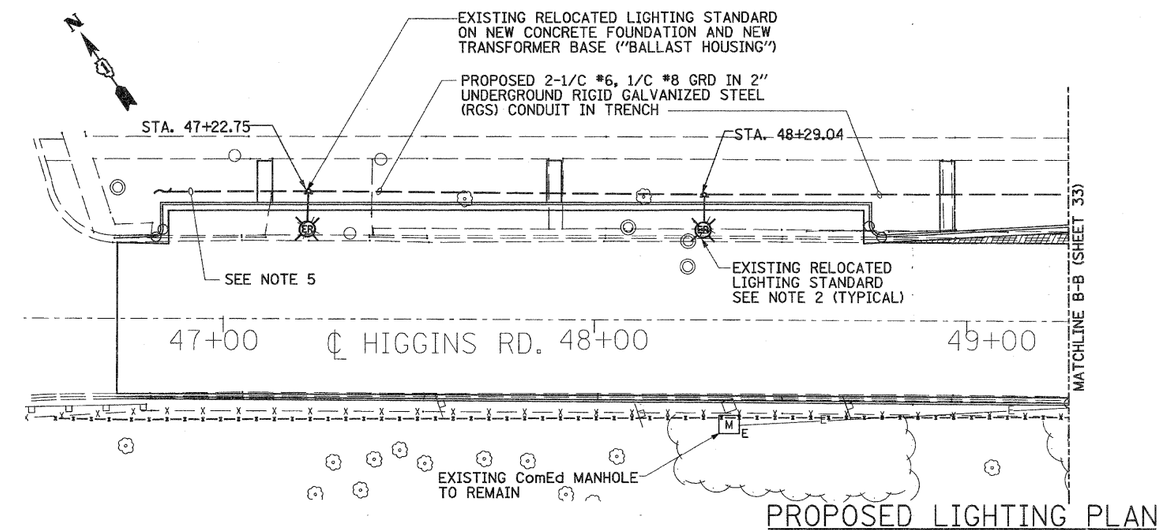
EXISTING CONDITIONS AND PROPOSED LIGHTING PLAN

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	33
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			

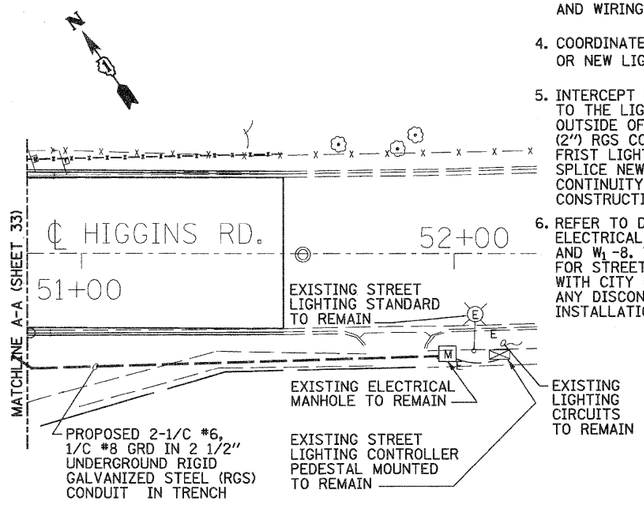




EXISTING CONDITIONS AND LIGHTING REMOVAL PLAN



PROPOSED LIGHTING PLAN



NOTES:

1. REFER TO DWG. E-1 FOR NOTES, BILL OF MATERIAL AND SYMBOL LIST.
2. RELOCATE THE EXISTING LIGHTING STANDARDS, AFFECTED BY THE ROADWORK ON NEW CONCRETE FOUNDATIONS. RECONNECT THE RELOCATED LIGHTING UNITS TO THE SAME EXISTING BRANCH CIRCUITS ORIGINATING IN THE EXISTING CONTROLLER #7 OR RESPECTIVELY IN THE EXISTING RELOCATED LIGHTING CONTROLLER #12.
3. REFER TO DWG. E-2 FOR CONTINUATION OF CONDUIT AND WIRING.
4. COORDINATE EXACT LOCATION OF EXISTING RELOCATED OR NEW LIGHT STANDARDS WITH CIVIL DRAWINGS.
5. INTERCEPT EXISTING LIGHTING CIRCUITS AND CONDUITS TO THE LIGHTING STANDARDS TO REMAIN IN OPERATION OUTSIDE OF CONSTRUCTION AREAS. EXTEND NEW 50 mm (2") RGS CONDUIT, WITH 2 -1/C #6, 1/C #8 GRD TO THE FRIST LIGHT POLE, NORTH OF CONSTRUCTION LIMIT. SPLICE NEW WIRING AND MAINTAIN THE CIRCUIT CONTINUITY TO THE ADJACENT AREAS DURING CONSTRUCTION.
6. REFER TO DWG. E-12 FOR CITY OF CHICAGO EXISTING ELECTRICAL PLANS AND EDISON SERVICE ATLASES X_1 -8 AND W_1 -8. VERIFY AND COORDINATE ALL ELECTRICAL WORK FOR STREET LIGHTING, CONDUIT ROUTING AND CONNECTIONS WITH CITY OF CHICAGO (BUREAU OF ELECTRICITY), PRIOR TO ANY DISCONNECTING, REMOVAL, RELOCATION AND NEW INSTALLATION WORK.

DWG. E-3

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

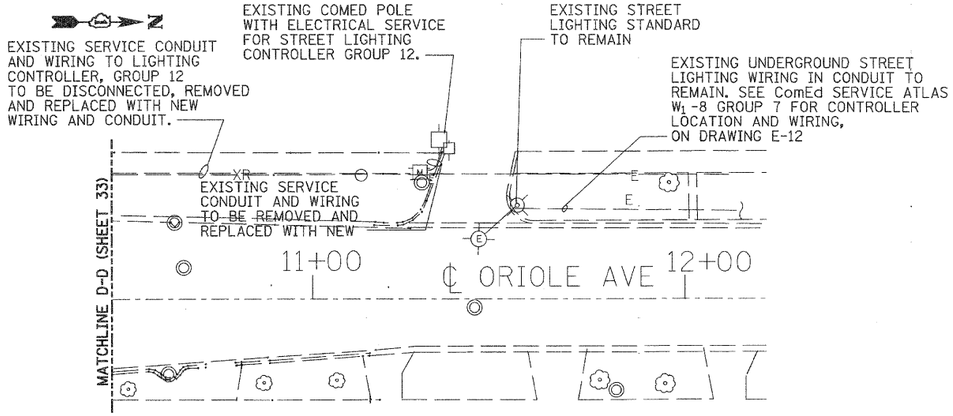
DESIGNED	TS	REVISED -
CHECKED	TPP	REVISED -
DRAWN	JS	REVISED -
CHECKED	TPP	REVISED -

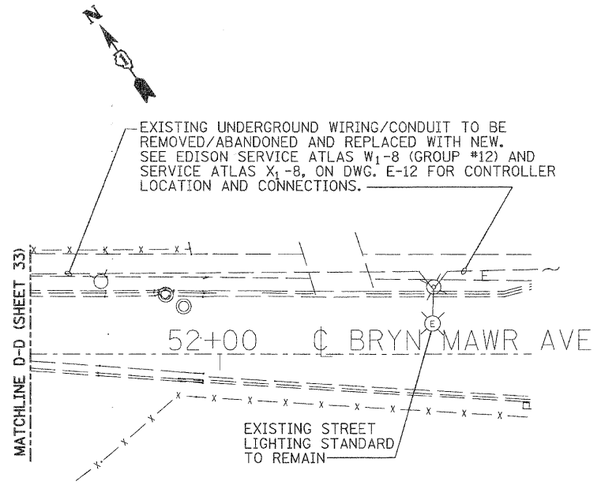
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101
SCALE: 1" = 20' | SHEET NO. E5 OF E14 SHEETS | STA. | TO STA.

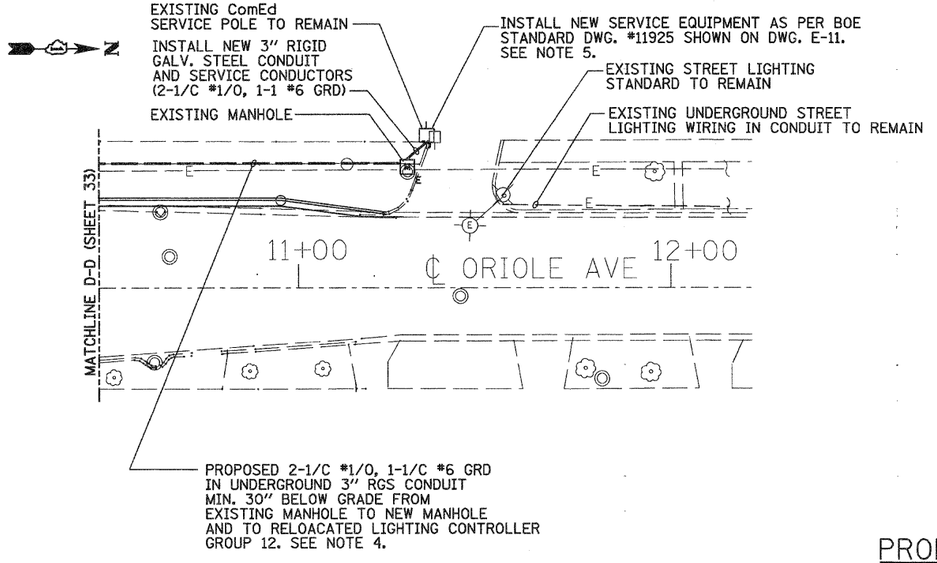
EXISTING CONDITIONS, REMOVAL AND PROPOSED LIGHTING PLAN

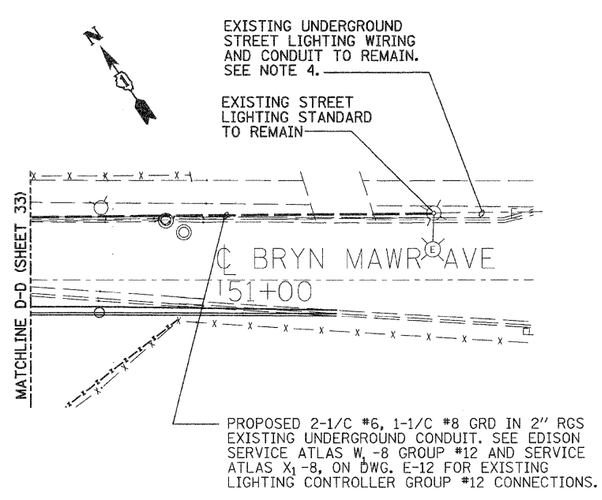
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	34
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			





EXISTING CONDITIONS AND LIGHTING REMOVAL PLAN





PROPOSED LIGHTING PLAN

NOTES:

1. REFER TO DWG. E-1 FOR NOTES, BILL OF MATERIALS AND SYMBOL LIST.
2. REFER TO DWG. E-2 FOR CONTINUATION OF STREET LIGHTING WIRING/CONDUIT ROUTING AND CONNECTIONS.
3. COORDINATE EXACT LOCATION OF EXISTING AND/OR RELOCATED LIGHTING STANDARDS WITH CIVIL DRAWINGS.
4. REFER TO DWG. E-12 FOR CITY OF CHICAGO EXISTING ELECTRICALPLANS AND EDISON SERVICE ATLASES X -8 AND W -8 VERIFY AND COORDINATE ALL ELECTRICAL WORK FOR STREET LIGHTING, CONDUIT ROUTING AND CONNECTIONS WITH CITY OF CHICAGO (BUREAU OF ELECTRICITY), PRIOR TO ANY DISCONNECTING, REMOVAL, RELOCATION AND INSTALLATION WORK.
5. COORDINATE ALL ELECTRICAL WORK FOR NEW ELECTRICAL SERVICE, INSTALLATION AND CONNECTION WITH COMED.

DWG. E-4

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED -
CHECKED	TPP	REVISED -
DRAWN	JS	REVISED -
CHECKED	TPP	REVISED -

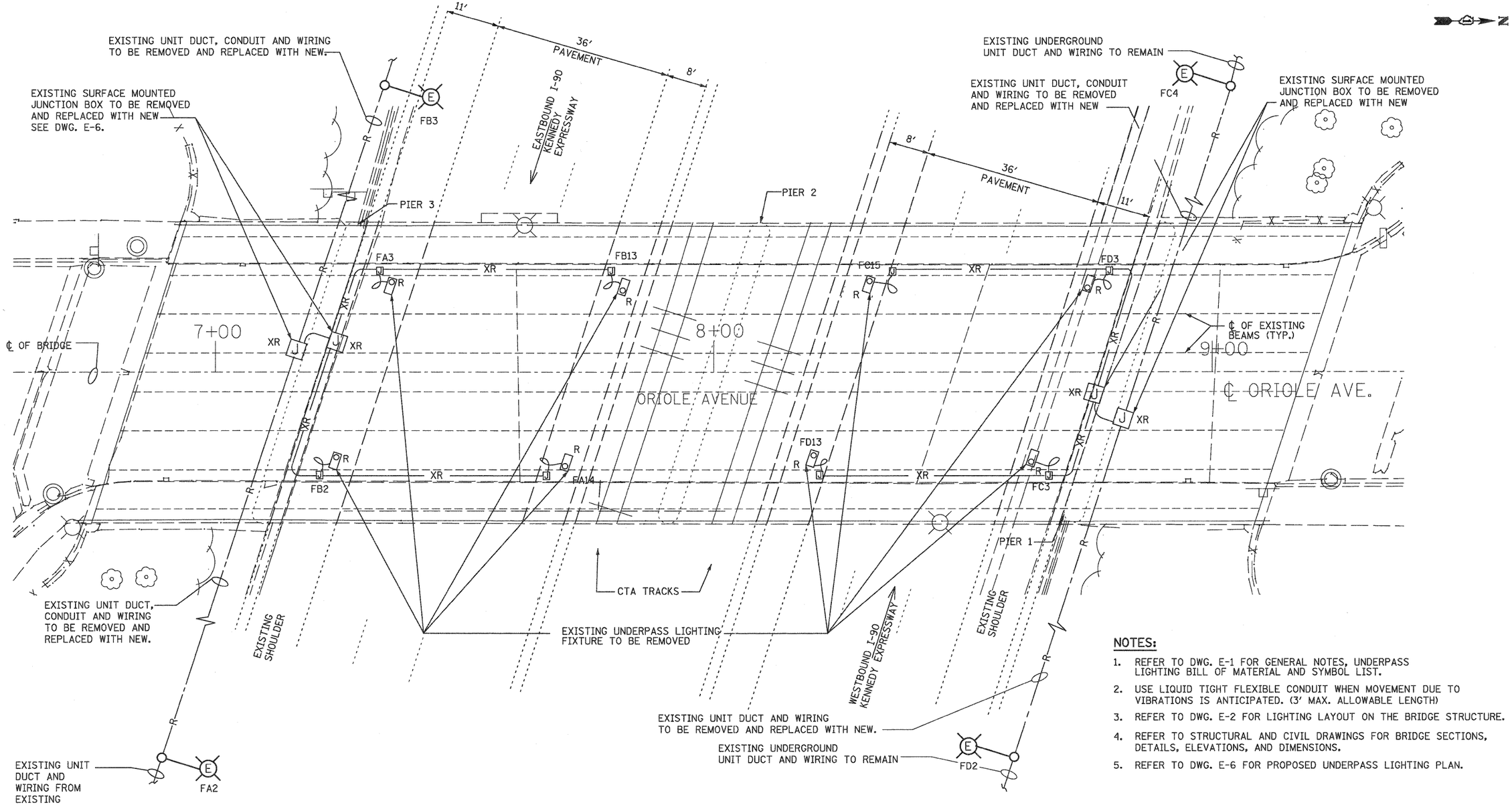
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

SCALE: 1" = 20' | SHEET NO. E6 OF E14 SHEETS | STA. | TO STA.

EXISTING CONDITIONS, REMOVAL AND PROPOSED LIGHTING PLANS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	35
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. REFER TO DWG. E-1 FOR GENERAL NOTES, UNDERPASS LIGHTING BILL OF MATERIAL AND SYMBOL LIST.
2. USE LIQUID TIGHT FLEXIBLE CONDUIT WHEN MOVEMENT DUE TO VIBRATIONS IS ANTICIPATED. (3' MAX. ALLOWABLE LENGTH)
3. REFER TO DWG. E-2 FOR LIGHTING LAYOUT ON THE BRIDGE STRUCTURE.
4. REFER TO STRUCTURAL AND CIVIL DRAWINGS FOR BRIDGE SECTIONS, DETAILS, ELEVATIONS, AND DIMENSIONS.
5. REFER TO DWG. E-6 FOR PROPOSED UNDERPASS LIGHTING PLAN.

LEGEND

---R---	EXISTING UNIDUCT TO BE REMOVED
— XR—	EXISTING TO BE REMOVED, UNLESS NOTED OTHERWISE
E	IDOT EXISTING LIGHTING STANDARD TO REMAIN
R	EXISTING UNDERPASS FIXTURE TO BE REMOVED

EXISTING UNDERPASS LIGHTING PLAN

DWG. E-5

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	JS	REVISED	-
CHECKED	TPP	REVISED	-

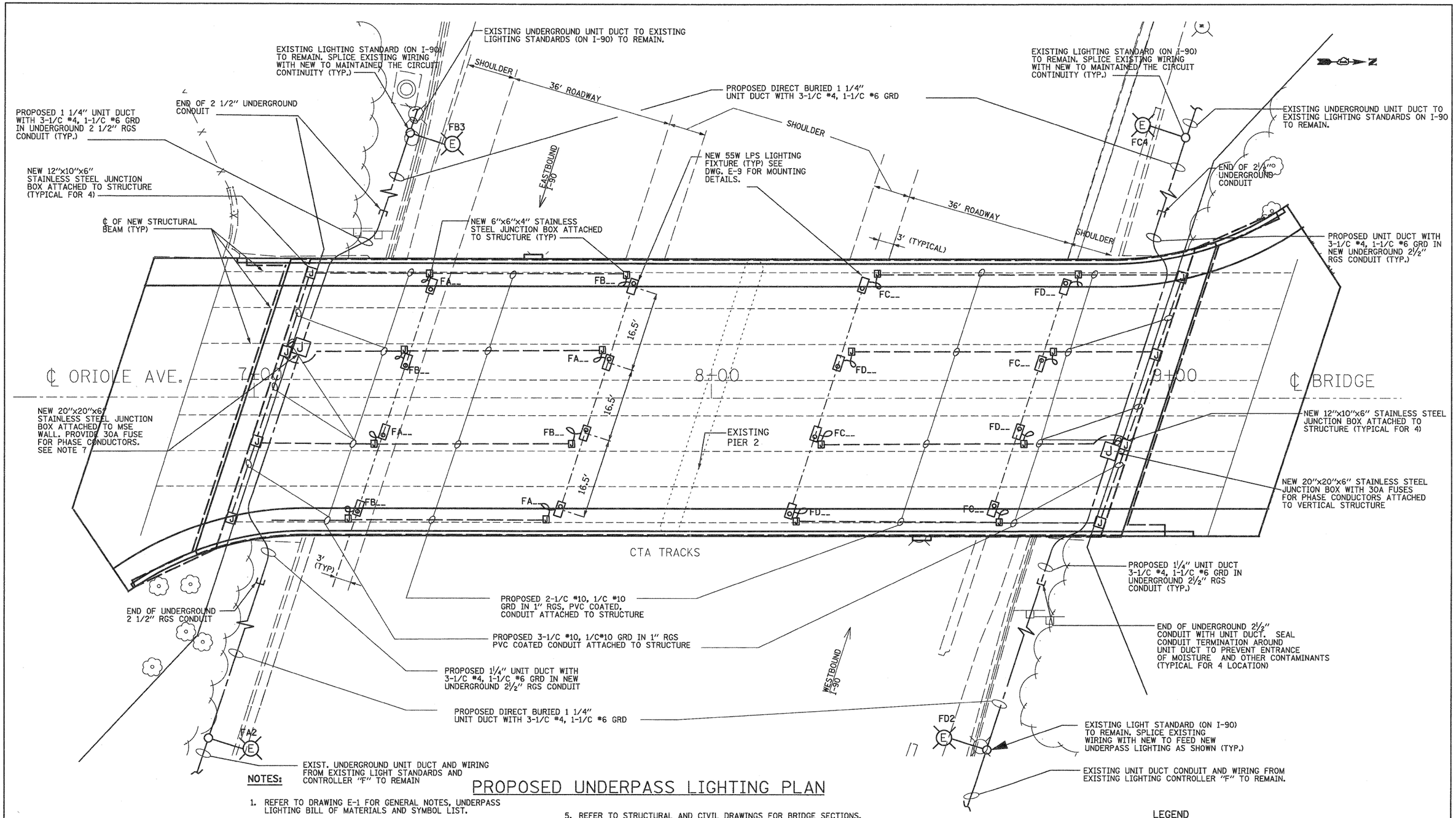
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

SCALE: 1" = 10' | SHEET NO. XX OF XX SHEETS | STA. | TO STA.

EXISTING UNDERPASS LIGHTING PLAN

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	36
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. REFER TO DRAWING E-1 FOR GENERAL NOTES, UNDERPASS LIGHTING BILL OF MATERIALS AND SYMBOL LIST.
2. USE LIQUID TIGHT FLEXIBLE CONDUIT WHEN MOVEMENT DUE TO VIBRATIONS IS ANTICIPATED. (3' MAX. ALLOWABLE LENGTH)
3. THE LUMINAIRE SHALL BE ORIENTED PARALLEL TO THE ROADWAY, WITH 3' SET BACK OVER THE EXPRESSWAY SHOULDER, BEHIND THE EDGE OF PAVEMENT.
4. REFER TO DWG. E-2 FOR LIGHTING PLAN ON THE BRIDGE STRUCTURE.
5. REFER TO STRUCTURAL AND CIVIL DRAWINGS FOR BRIDGE SECTIONS, DETAILS, ELEVATIONS, AND DIMENSIONS.
6. REFER TO DRAWING DWG. E-5 FOR EXISTING UNDERPASS LIGHTING REMOVAL AND TEMPORARY RELOCATION.
7. REFER TO DWG. E-7 FOR PARTIAL BRIDGE SECTION VIEW AND OTHER DETAILS

PROPOSED UNDERPASS LIGHTING PLAN

LEGEND

- EXISTING LIGHTING STANDARD TO REMAIN
- PROPOSED UNIT DUCT IN CONDUIT
- PROPOSED EXPOSED CONDUIT
- PROPOSED UNDERPASS FIXTURE
- PROPOSED STAINLESS STEEL JUNCTION BOX ATTACHED TO STRUCTURE

DWG. E-6

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	JS	REVISED	-
CHECKED	TPP	REVISED	-

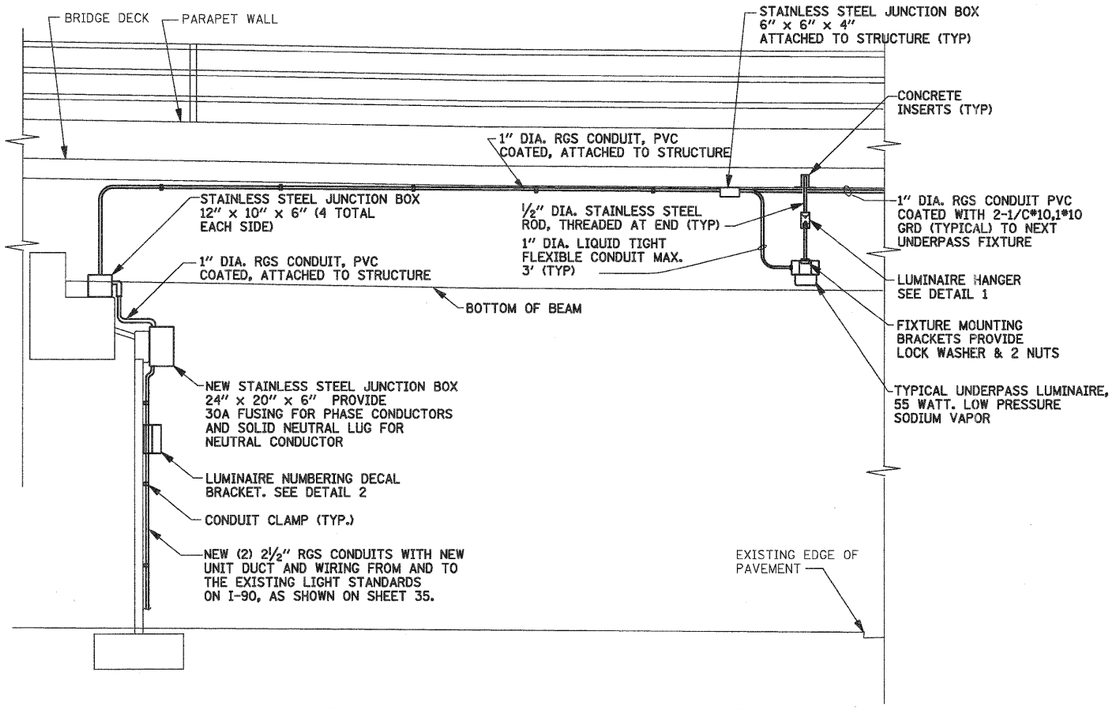
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

SCALE: 1" = 10' | SHEET NO. XX OF XX SHEETS | STA. | TO STA.

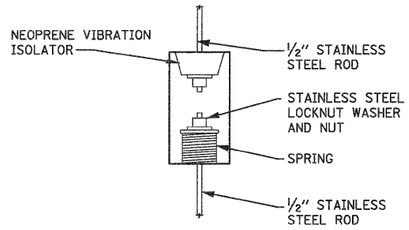
PROPOSED UNDERPASS LIGHTING PLAN

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	37
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			



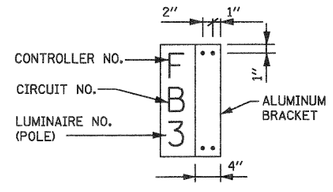
PARTIAL BRIDGE SECTION VIEW LOOKING WEST

NOT TO SCALE



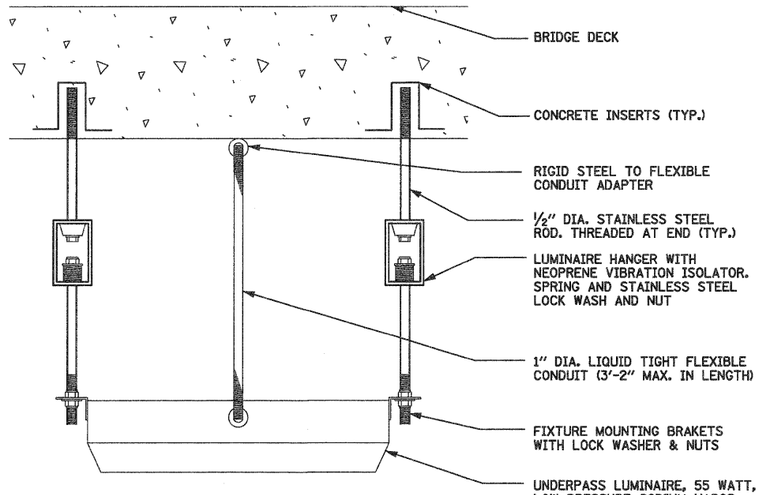
DETAIL 1

LUMINAIRE HANGER ASSEMBLY



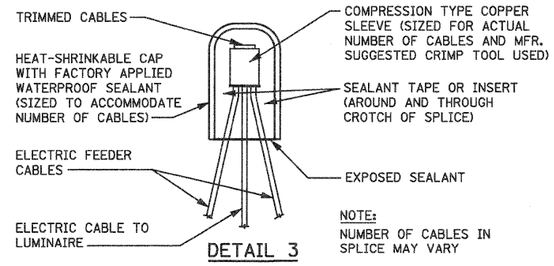
DETAIL 2

LUMINAIRE NUMBERING DECAL BRACKET



TYPICAL UNDERPASS LUMINAIRE INSTALLATION DETAIL

NOT TO SCALE



DETAIL 3

ELECTRIC CABLE SPLICE

DWG. E-7

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	JS	REVISED	-
CHECKED	TPP	REVISED	-

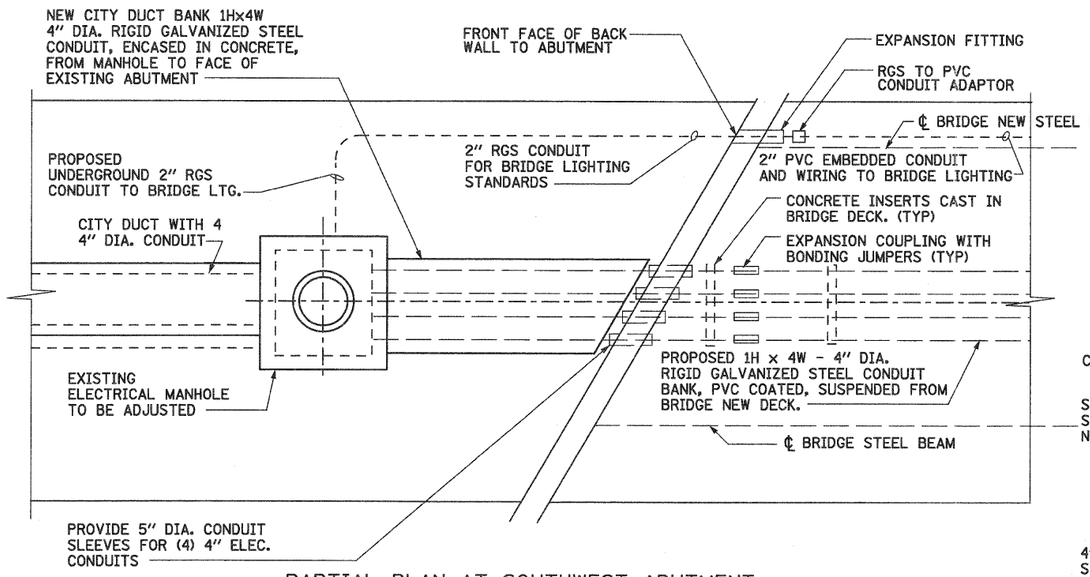
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

SCALE: NONE | SHEET NO. XX OF XX SHEETS | STA. | TO STA.

IDOT
SECTIONS, DETAILS AND PARTIAL PLAN
ORIOLE AVENUE

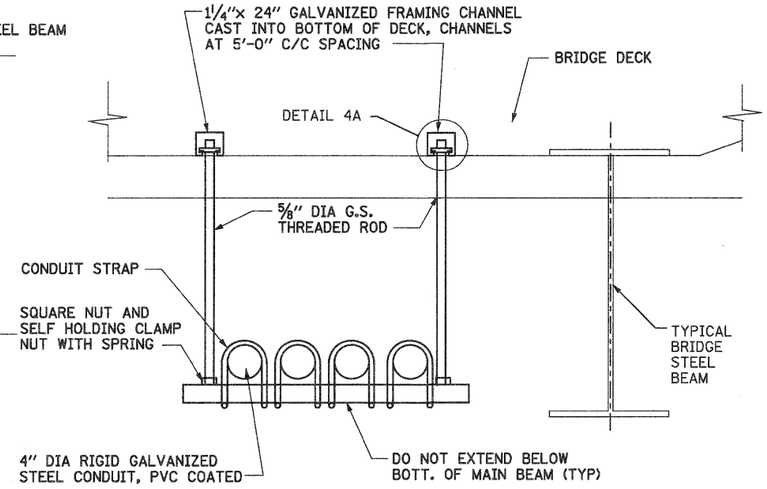
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	38
		CONTRACT NO. 60M79		
		ILLINOIS	FED. AID PROJECT	

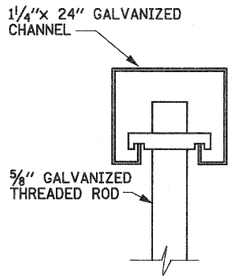


PARTIAL PLAN AT SOUTHWEST ABUTMENT

(SIMILAR BUT OPPOSITE HAND FOR NORTHWEST ABUTMENT)

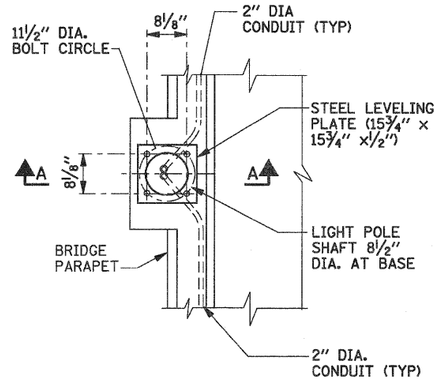
NOT TO SCALE



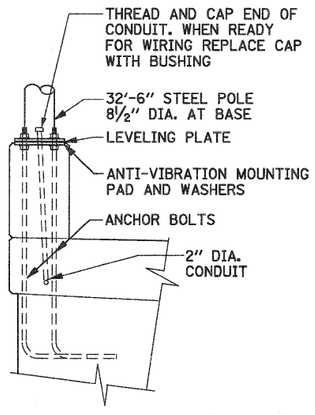


DETAIL 4A

NOT TO SCALE



LIGHT POLE PLAN & LEVELING PLATE DETAIL (✳)



SECTION A-A (✳)

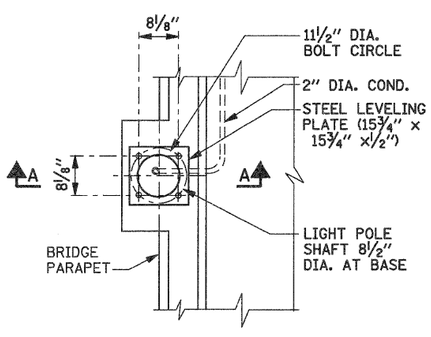
DETAIL 5 (TYPICAL FOR LIGHT STANDARD MOUNTED ON BRIDGE PARAPET)

(✳)(FOR DIMENSIONS AND INFORMATION NOT NOTED SEE STRUCTURAL DRAWINGS)

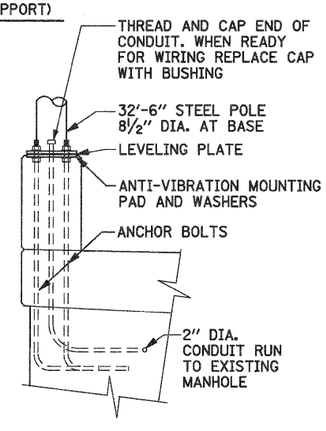
NOT TO SCALE

DETAIL 4 (TYPICAL CONDUIT SUPPORT)

NOT TO SCALE



LIGHT POLE PLAN & LEVELING PLATE DETAIL (✳)



SECTION A-A (✳)

DETAIL 6 (TYPICAL FOR LIGHT STANDARD MOUNTED AT BRIDGE ENDS)

(✳)(FOR DIMENSIONS AND INFORMATION NOT NOTED SEE STRUCTURAL DRAWINGS)

NOT TO SCALE

DWG. E-8

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	JS	REVISED	-
CHECKED	TPP	REVISED	-

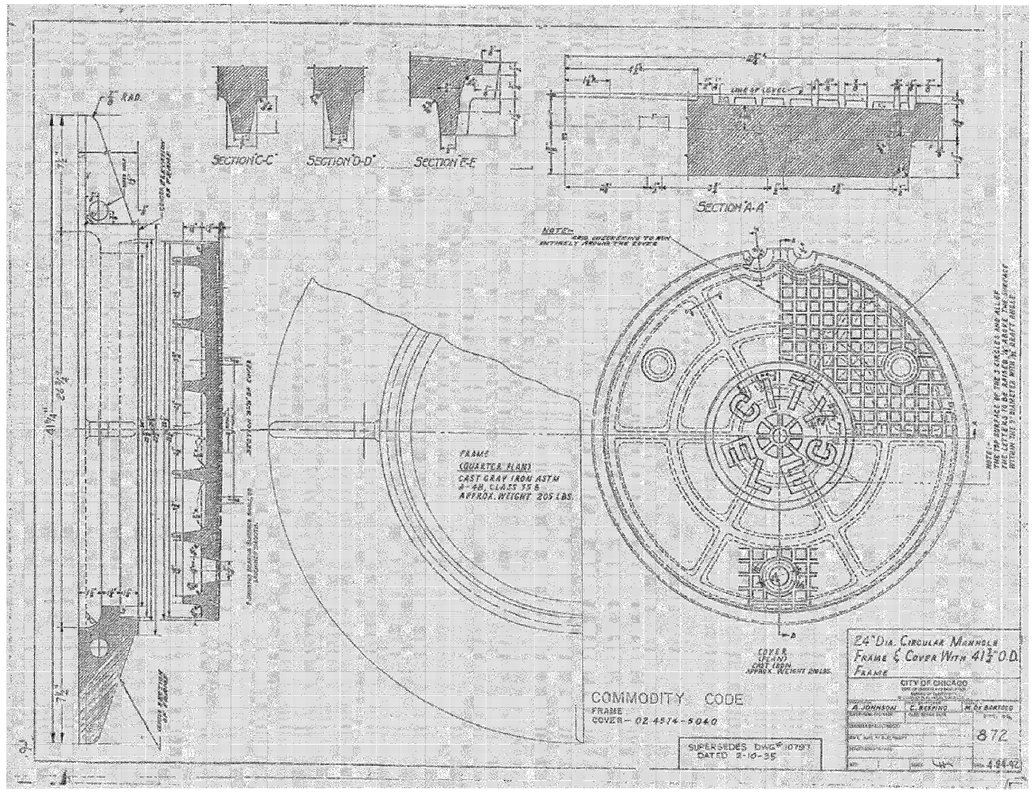
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

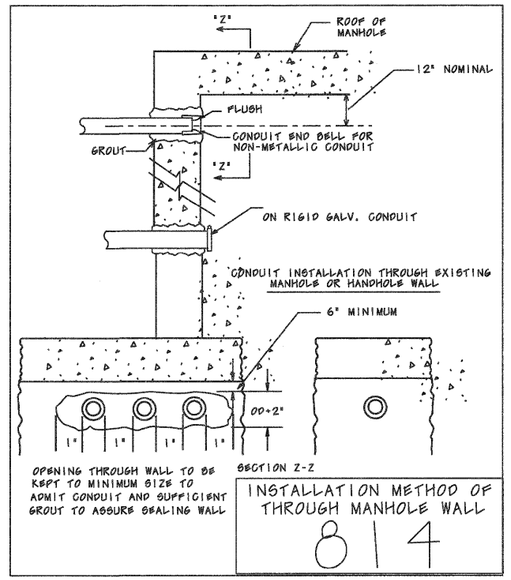
ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

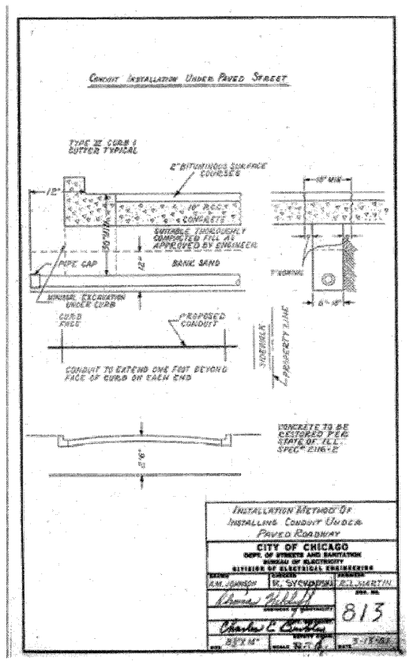
SCALE: NONE | SHEET NO. XX OF XX SHEETS | STA. | TO STA.

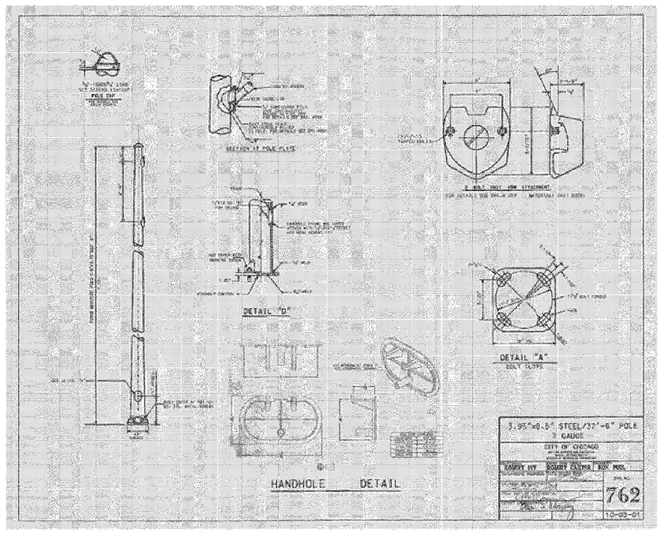
CITY OF CHICAGO
TYPICAL SECTIONS AND DETAILS
ORIOLE AVENUE AT I-90

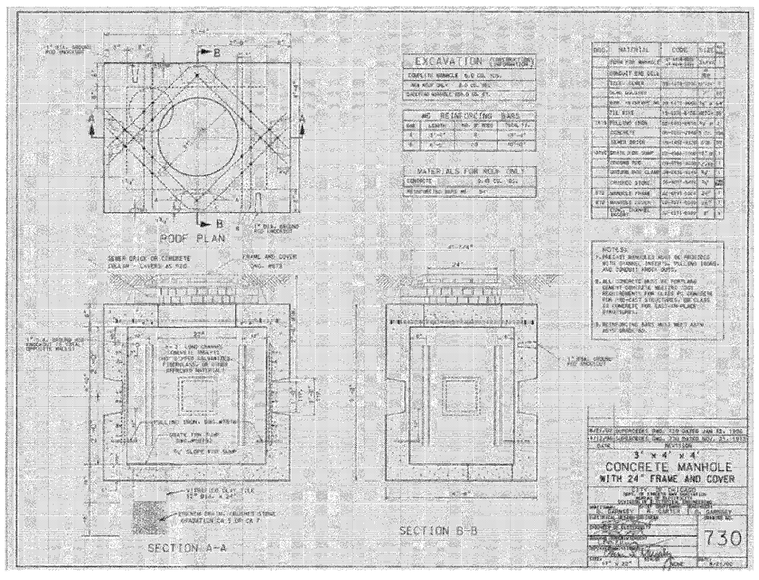
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	39
		CONTRACT NO. 60M79		
	ILLINOIS	FED. AID PROJECT		











DWG. E-9

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	TS	REVISED	-
CHECKED	TPP	REVISED	-
DRAWN	JS	REVISED	-
CHECKED	TPP	REVISED	-

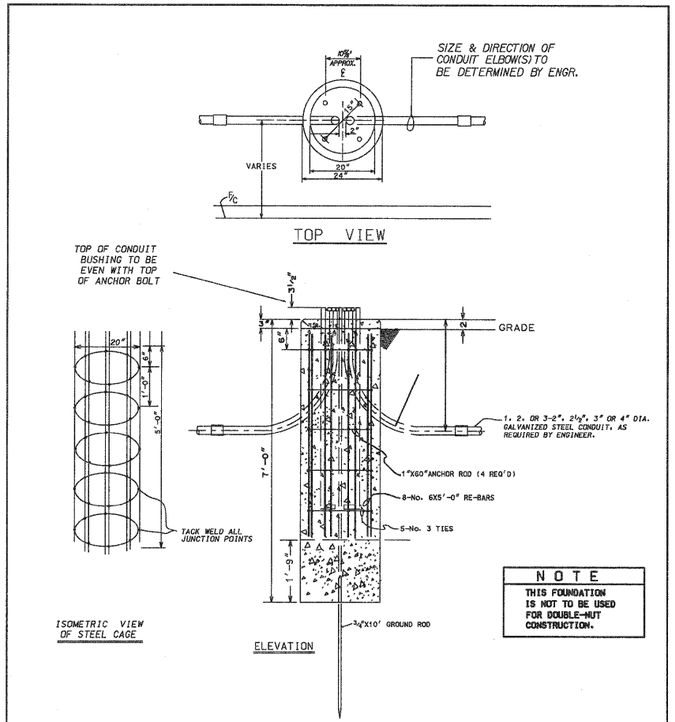
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

CITY OF CHICAGO
MISCELLANEOUS STANDARD DETAILS
OREOLE AVENUE I-90

SCALE: 1" = 50' | SHEET NO. X OF X SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	40
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			



NOTE
THIS FOUNDATION IS NOT TO BE USED FOR DOUBLE-NUT CONSTRUCTION.

CODE	COMMODITY	SIZE	QUANTITY
05-3267-2940	CONCRETE REDI-MIX	CU. YD.	0.82
09-4001-	ELBOW, LARGE RAD.	2", 2½", OR 3"	VARIES
37-8180-0200	ROD, ANCHOR	1"X60"	4
20-5472-9650	BAR, REINFORCING	⅝"X5' (#6)	8
20-5472-	TIE, RE-BAR	#3	5
09-7796-9200	ROD, GROUND	¾"X10'	1
09-2636-3240	CLAMP, GROUND ROD	¾"	1
09-2092-	BUSHING, GROUND	2", 2½", OR 3"	VARIES

REV.	
B	GENERAL REVISION
A	REVISED POSITION OF RS-BAR CAGE

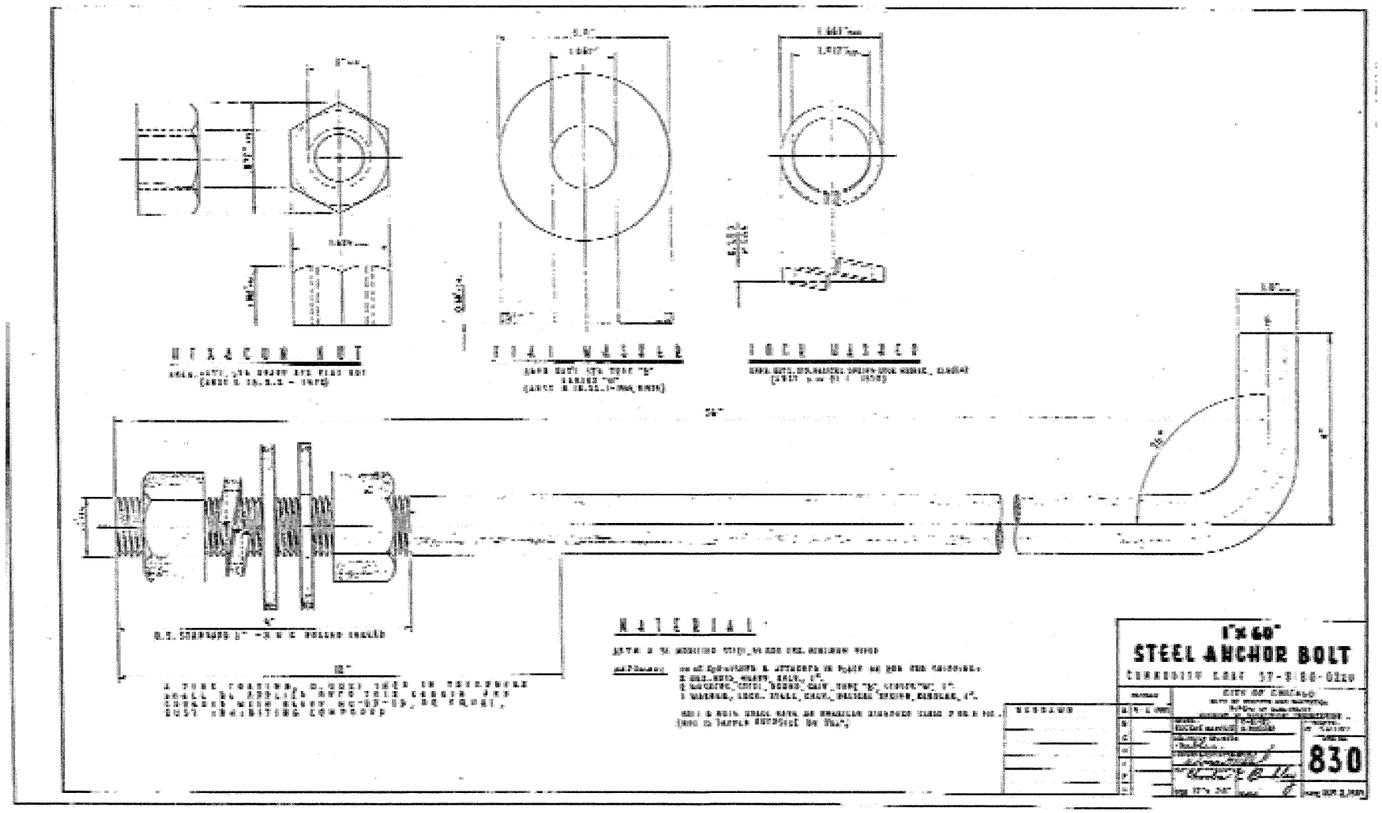
SUPERSEDES DWG. 691 DATED 5-25-71

FOUNDATION FOR 27'-6", 29'-6" OR 34'-6" POLE WITH STEEL OR ALUMINUM O.H.O. IN EARTH PARKWAY

CITY OF CHICAGO
DEPARTMENT OF STREETS AND SANITATION
DIVISION OF ELECTRICAL ENGINEERING

REVISION		DRAWN	CHECKED	SUBMITTED
A	4-21-80	R. NY	R. CARTER	M. SHINE
B	5-27-83			
C		ENGINEER IN CHARGE		
D		SUPERINTENDENT OF CONSTRUCTION		
E		DEPUTY COMMISSIONER		
F				
G				
H		SIZE: 18"X29"	SCALE: 1"=1'-0"	DATE: 4-10-96

691



DWG. E-10

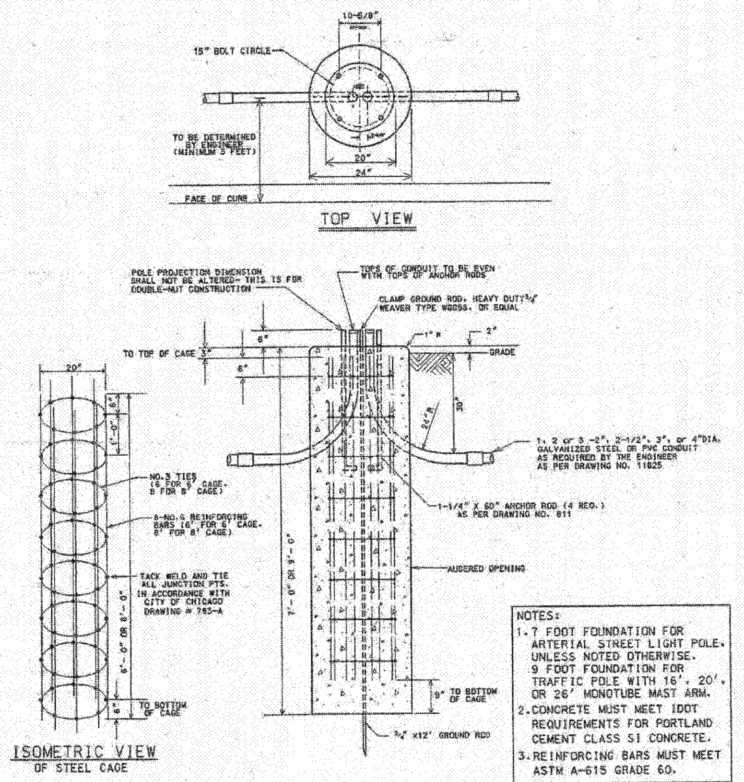
ABNA DESIGN FIRM REG. 184.002117	9901 S. Western Ave. Chicago, IL 60643 Ph. 773-881-4788 F: 773.239.3728	DESIGNED TS	REVISED -
		CHECKED TPP	REVISED -
		DRAWN JS	REVISED -
		CHECKED TPP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101
SCALE: 1" = 50' | SHEET NO. E 13 OF E 14 | SHEET STA. | TO STA.

CITY OF CHICAGO
MISCELLANEOUS DETAILS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	41
		CONTRACT NO. 60M79		
	ILLINOIS FED. AID PROJECT			



NOTES:
1. 7 FOOT FOUNDATION FOR ARTERIAL STREET LIGHT POLE, UNLESS NOTED OTHERWISE. 9 FOOT FOUNDATION FOR TRAFFIC POLE WITH 16', 20', OR 26' MONOTUBE MAST ARM.
2. CONCRETE MUST MEET IDOT REQUIREMENTS FOR PORTLAND CEMENT CLASS SI CONCRETE.
3. REINFORCING BARS MUST MEET ASTM A-615 GRADE 60.

NOTE: HOLE FOR FOUNDATION MUST BE AUGURED IN UNDISTURBED SOIL

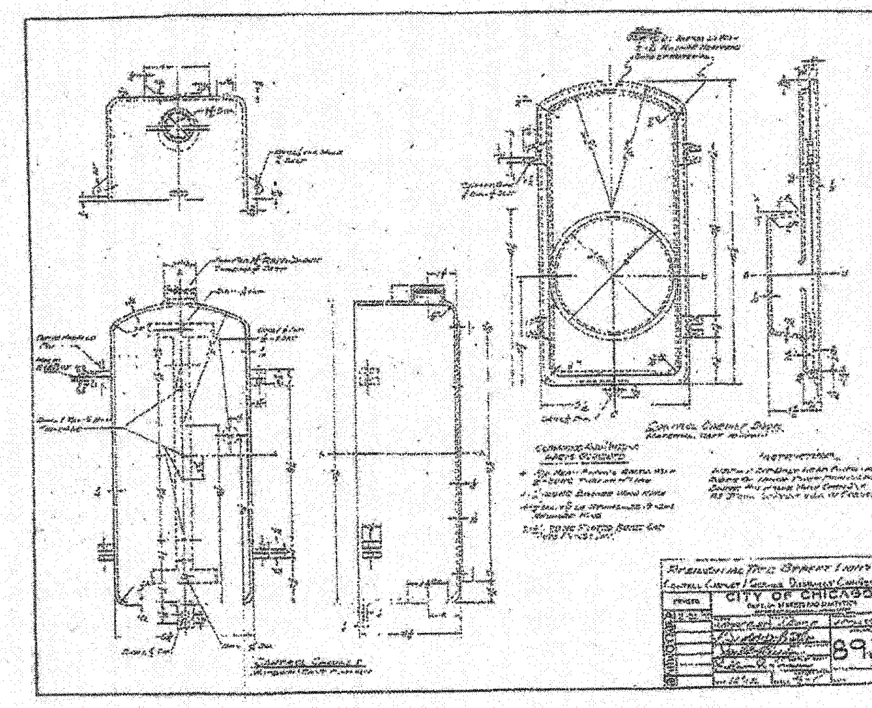
CODE	COMMODITY	SIZE	QUANTITY
05-3267-2940	REDI-MIX CONCRETE	CU. YD.	0.82 OR 1.05
09-4001-	ELBOW, LARGE RADIUS	2",2-1/2",3",4"	VARIES
37-8180-0200	ANCHOR ROD	1-1/4" X 60"	4
05-5054-6910	RE-BAR CAGE	20"Ø X 6'(or 8')	1
09-7796-9200	GROUND ROD	3/4" X 12'-0"	1
09-2636-3240	GROUND ROD CLAMP	3/4"	1
09-2092-	GROUND BUSHING	2",2-1/2",3" OR 4"	VARIES

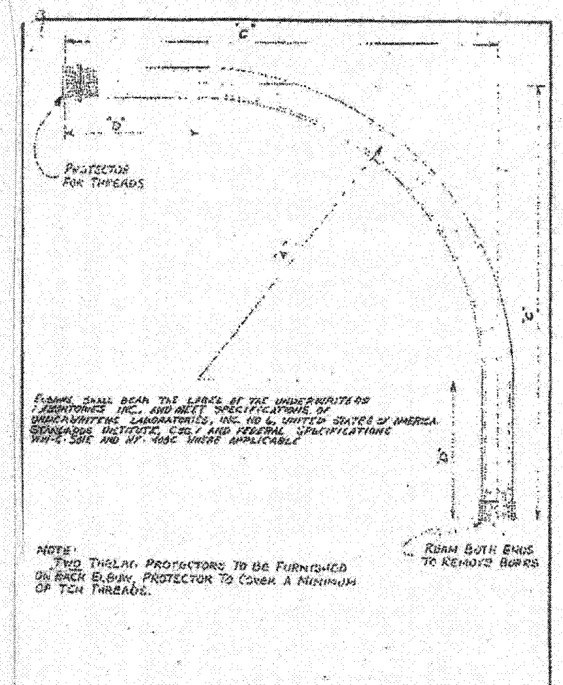
8/21/02 SUPERCEDES DWG #818 DRAWN 4/21/81
DATE REVISION

FOUNDATION FOR 34'-6" ARTERIAL STREET LIGHT OR TRAFFIC SIGNAL POLE - 3 OR 7 GAUGE WITH 15" BOLT CIRCLE

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN: B. GARNSEY | CHIEF DRAFTSMAN: R. CARTER | ENGINEER: B. GARNSEY
DRAWING NO. 818
SIZE: 11" x 17" SCALE: NONE DATE: 8/21/02





NOTE: TWO THREAD PROTECTORS TO BE FURNISHED ON EACH ELBOW, PROTECTOR TO COVER A MINIMUM OF TEN THREADS.

TABLE OF DIMENSIONS

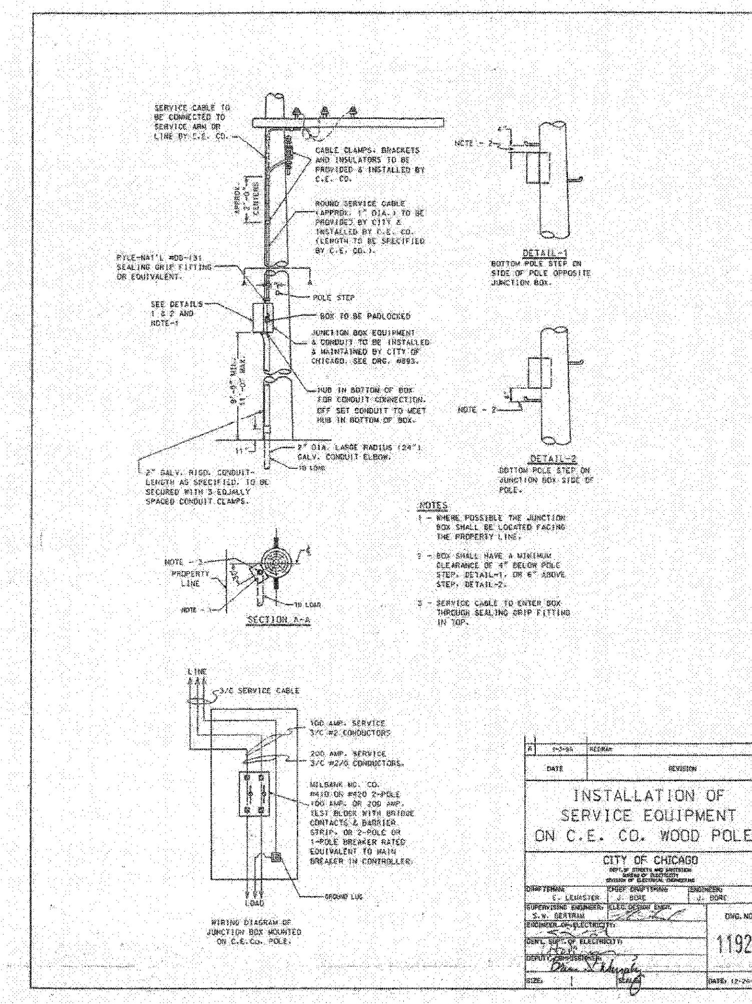
CONDUIT SIZE	DIMENSIONS "A"	"C"	"D"	COMMODITY CODE
1¼"	24"	36"	11"	09-4001-0510
1½"	24"	35"	11"	09-4001-0520
2"	24"	35"	11"	09-4001-4126
2½"	24"	35"	11"	09-4001-4128
3"	24"	36"	11"	09-4001-4230
4"	24"	35"	11"	09-4001-[illegible]

B SPECIFICATIONS REVISED
A REVISED DIMENSIONS ON 3" & 4" CONDUIT

ELBOW, CONDUIT, RIGID GALVANIZED STEEL LARGE RADIUS

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

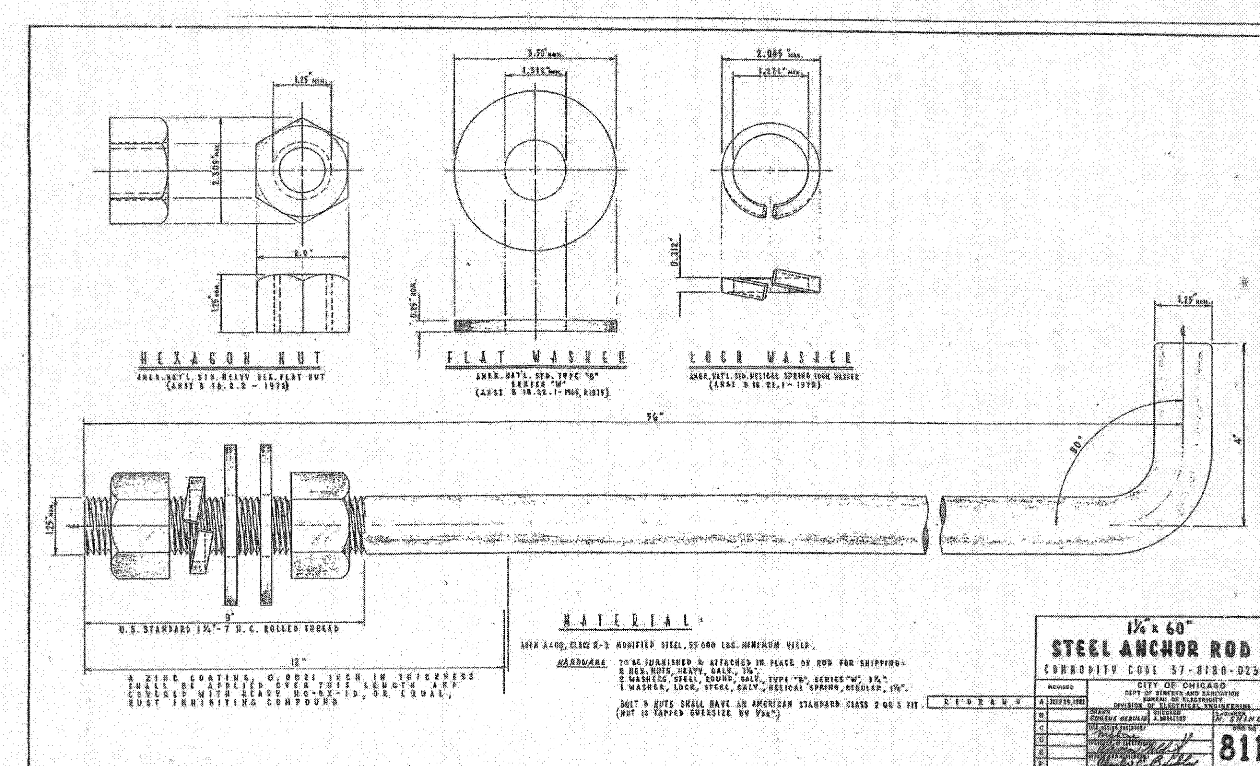
11825



INSTALLATION OF SERVICE EQUIPMENT ON C.E. CO. WOOD POLES

CITY OF CHICAGO

11925



1¼" x 60"
STEEL ANCHOR ROD

CITY OF CHICAGO

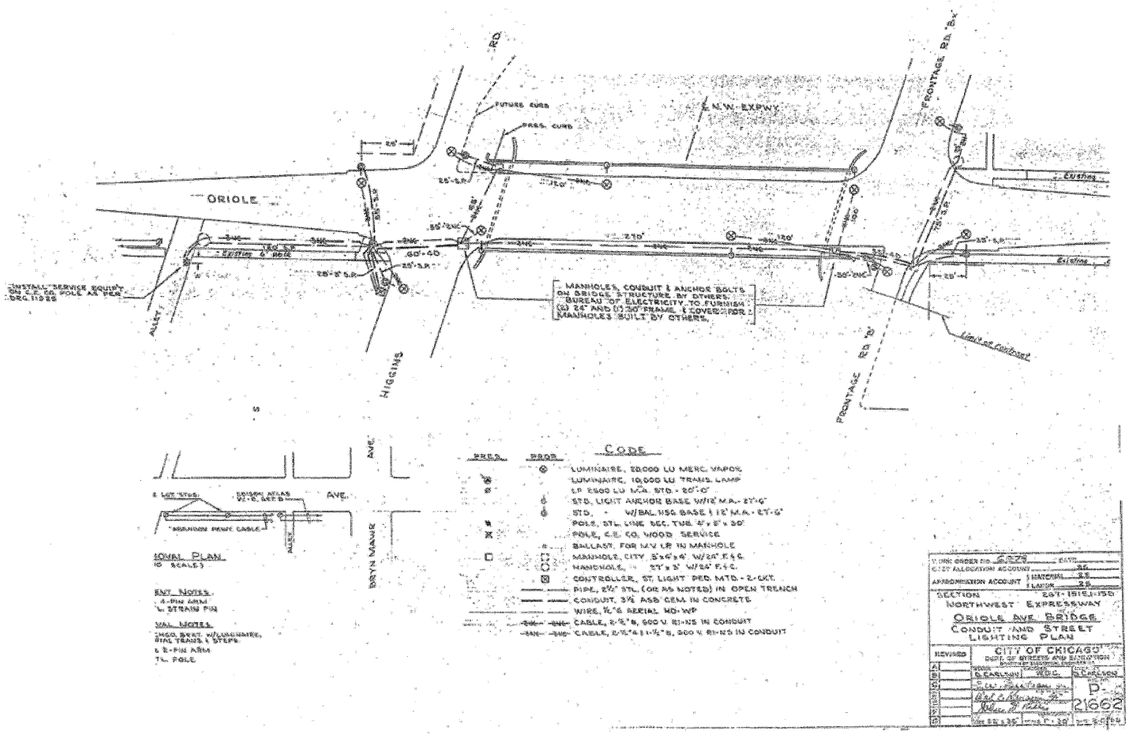
811

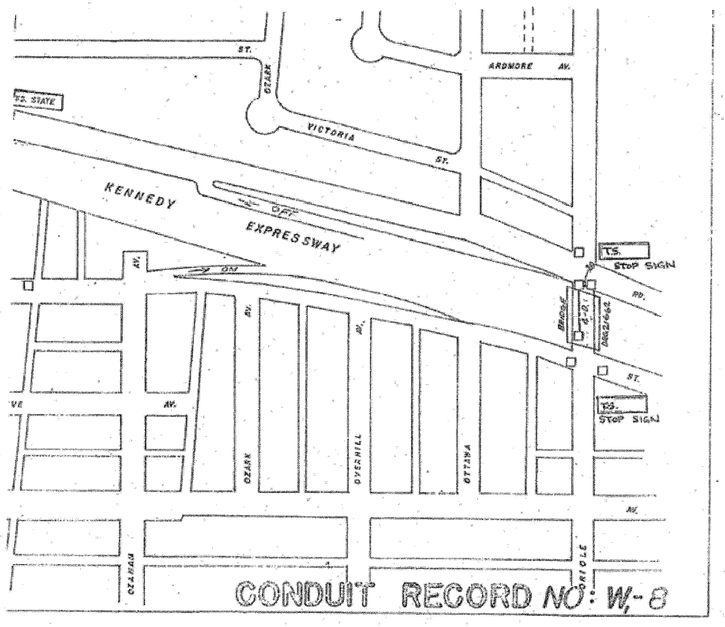
DWG. E-11

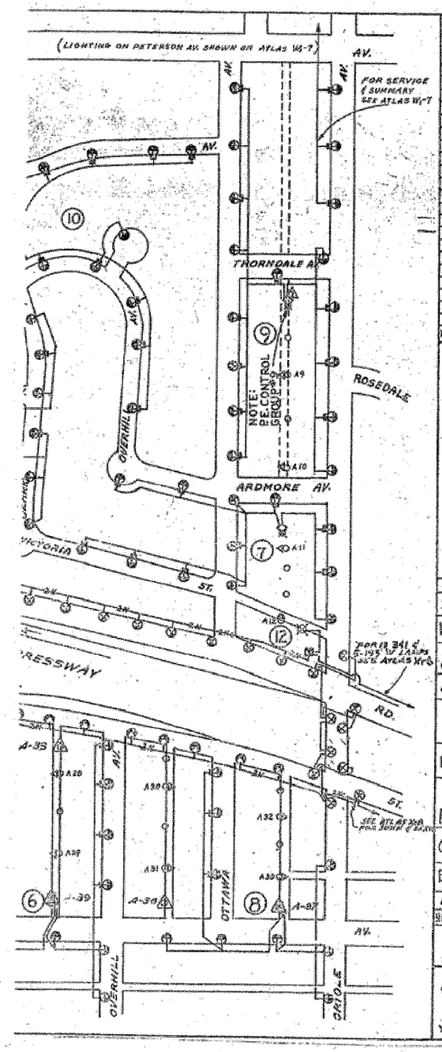
ABNA DESIGN FIRM REG. 184.002117	9901 S. Western Ave. Chicago, IL 60643 Ph. 773-881-4788 F: 773.239.3728	DESIGNED TS CHECKED TPP DRAWN JS CHECKED TPP	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90 STRUCTURE NO. 016-1101	CITY OF CHICAGO MISCELLANEOUS DETAILS
SCALE: 1" = 50' SHEET NO. X OF X SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.I-B	COOK	101	42
		CONTRACT NO. 60M79		
		ILLINOIS FED. AID PROJECT		







GRP. NO.	HIGH PRESSURE SODIUM VAPOR 170	341	195	MULTI-LAMPS	105
1	9				
2	15				
3	8				
4	3				
5	11				
6	13				
7	12				
8	9				
9	14				
10	11				
11					
12		21	5		
13					
14					
15					
16					
17					
18					
19					
20					
TOTAL	103	21	5		42

CODE
- 170 W. H.P.S.V. 120V.
- 105 W. H.P.S.V. 240V.
- 341 W. H.P.S.V. 120V.
- 195 W. H.P.S.V. 120V.
- RESIDENTIAL CONTROLLER
- EDISON WOOD POLE
- EDISON SERVICE POLE
- PED. MTD. CONTROLLER
- 215 W. 8,000 L. M.V. W/ P.E. PHOTO-ELECTRIC CELL

ALL RESIDENTIAL LAMPS CONVERTED PER REVISION "B"

REV.	DATE	W. O.	TEXT OF REVISION
J	4-20-94 OPER.		GRP. 12 CONVERTED TO P.E. MR
I	8-18-91		ADDED 14 105W. Lps.
H	11-1-85 OPER.		REMOVED (9) 105W. ALLEY LIGHTS.
G	11-1-85 OPER. DIV.		REM. 5-170W. & 1-341W. ADD. 4-195W. IN GRP. 12.
F	8-18-82		ADDED (37) 105 W. H.P.S.V. ALLEY LIGHTS CONTRACT 53135. AM
			RESIDENTIAL LPS. RE-GROUPED 12-20-1982 CONTRACT #56919
E	6-17-81 OPER. DIV.		P.E. CONTROL INSTALLED IN GRP. #9 S.M.
D	1-20-80 OPER. DIV.		REMOVED GRP. 11 (17)-341W. & (6)-195W. LPS. REMOVED GRP. 14 (8)-170 W LPS. RA
C	6-19-78	1617004	REMOVE 52-450 W. LPS & INSTALL 7-195 W. L.P.S & 45-341 W. LPS. H.P.S.V. 240V. IN GROUPS 11, 12. RA
B	12-3-74	415004	REPLACE 122-215 W T0122 170W. H.P.S.V. 120V & 1-185-240V
A	9-15-70		ADDED 1-215 W LAMP TO GROUP 3

CITY OF CHICAGO
DEPARTMENT OF STREETS & SANITATION
DIVISION OF ELECTRICAL ENGINEERING

EDISON SERVICE
ATLAS NO. W-8

DWG. E-12

ABNA DESIGN FIRM REG. 184.002117	9901 S. Western Ave. Chicago, IL 60643 Ph. 773-881-4788 F: 773.239.3728	DESIGNED TS	REVISED -
		CHECKED TPP	REVISED -
		DRAWN JS	REVISED -
		CHECKED TPP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

SCALE: NONE | SHEET NO. X OF X SHEETS | STA. | TO STA.

MISCELLANEOUS EXISTING ELECTRICAL PLANS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	43
		CONTRACT NO. 60M79		
	ILLINOIS	FED. AID PROJECT		

J:\2009\246 IDOT PTB 153 Item 2\Cadd\Design\016-1101 W.O. 15 Oriole Steel Plans\016-1101.dgn 12/7/2011 2:12:26 PM

Bench Mark:
BM-10R Top of Chain Bolt of Fire Hydrant at
SW Corner of Higgins and Oriole
El. 655.73

Salvage:
Metal Railing

Existing Bridge Description:
Structure No. 016-1101 was built in 1958 as the N. Oriole Avenue Grade Separation. The Superstructure consists of a four span simple, Precast, Pretensioned Concrete Beam system, with a 7" thick reinforced concrete deck and a 2" concrete wearing surface. The span lengths from north to south are 39'-3⅝", 81'-6", 81'-6" and 36'-0⅝". Total length, back to back of abutments is 238'-4¼". The beam spacing is 6'-6' except for the two center stringers which have spacing of 4'-0'. The substructure consists of two reinforced concrete pile bent abutments with wing walls and three reinforced concrete piers. Both abutments and all three piers are founded on reinforced concrete pile caps and metal shell cast-in-place concrete piles. The deck out-to-out dimension is 61'-0" and varies at ends. The deck cross section consists of two 11'-0" traffic lanes in each direction and a 8'-6" sidewalk on each side. There are aluminum railings on either side of the deck. The abutment bearings and the bearing at pier 2 are fixed. Piers 1 and 3 provide expansion for all spans through sliding plate bearings. Bridge will be closed to traffic during construction. All adjacent streets and highways to remain open.

STATION 8+00.00
REBUILT 201 BY
STATE OF ILLINOIS
SECTION 1515.1-B
LOADING HL-93
STR. NO. 016-1101

NAME PLATE
Std. 515001

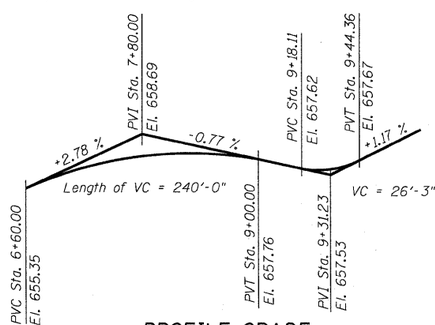
The existing name plate if available is to be cleaned and attached adjacent to the new name plate. Cost is included with Pay Item "Name Plates".

Seismic Data
Soil Site Class: = D
LRFD Seismic Preformance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = .084g for Site Class D
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = .0144g for Site Class D

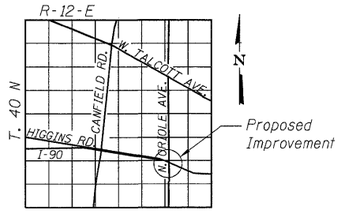
Design Specification
2010 AASHTO LRFD
Bridge Design Specifications with 2010 Interims

Loading HL-93
Allow 50 psf for future wearing surface

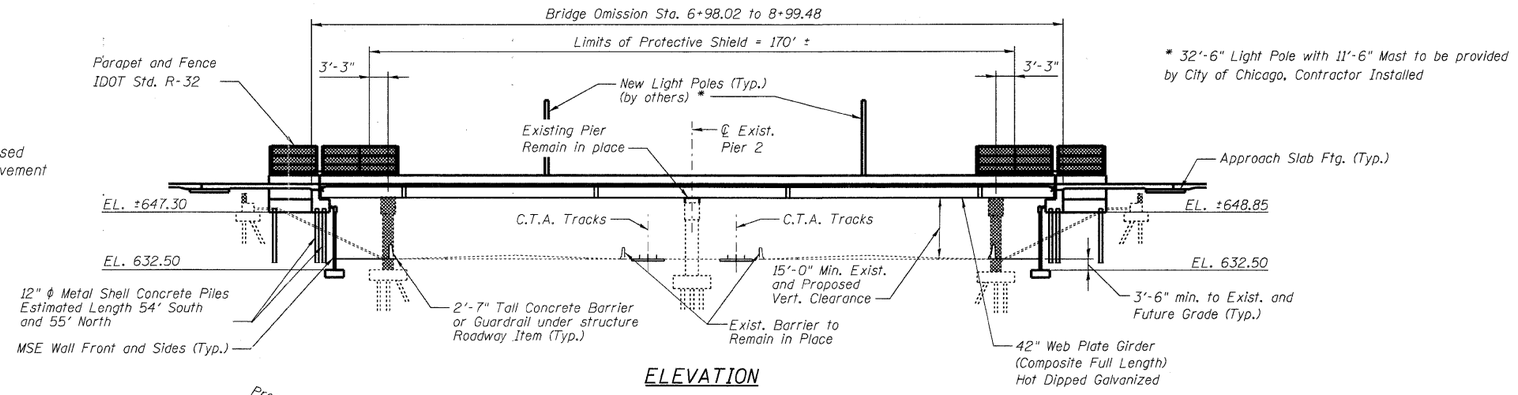
Design Stresses
New Construction
Concrete
f'c = 3,500 psi
fy = 60 ksi
Steel
fy = 50 ksi (M270 Grade 50)
fy = 36 ksi (M270 Grade 36)
Existing Construction
f'c = 3,000 psi
fs = 40 ksi (Reinf.)



PROFILE GRADE
N. ORIOLE AVENUE

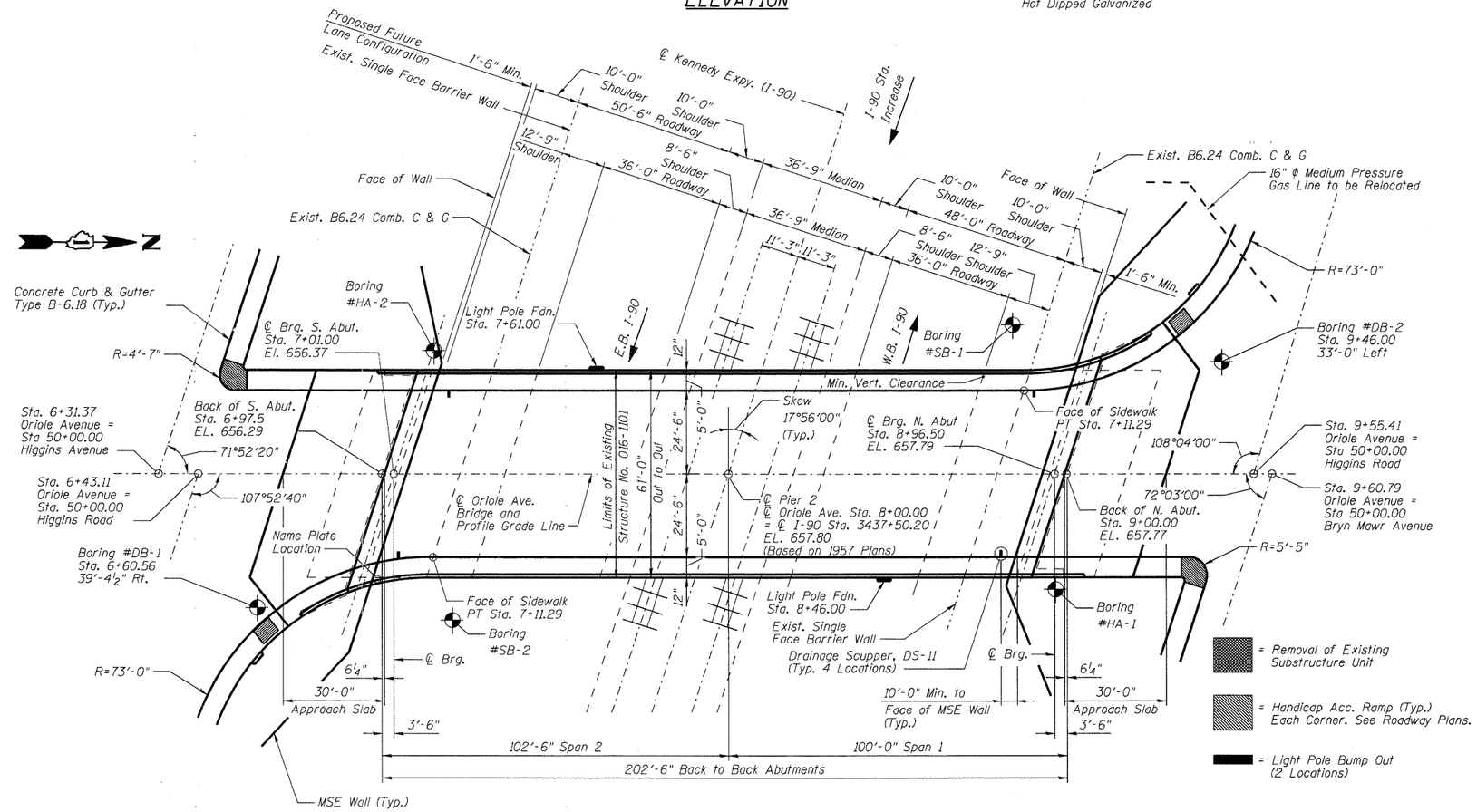


LOCATION SKETCH



* 32'-6" Light Pole with 11'-6" Mast to be provided by City of Chicago. Contractor Installed

ELEVATION



PLAN

ROBERT J. LOEHR
81-3992
REGISTERED STRUCTURAL ENGINEER OF ILLINOIS
Expires 11-30-2012

APPROVED
FOR STRUCTURAL ADEQUACY
ENGINEER OF BRIDGES AND STRU...

GENERAL PLAN & ELEVATION
ORIOLE AVE. OVER
KENNEDY EXPY. FAI-90
SEC. 1515.1-B
COOK COUNTY
STATION 8+00.00
STRUCTURE NO. 016-1101

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	SEA	REVISED	-
CHECKED	RJL	REVISED	-
DRAWN	JJE / SCS	REVISED	-
CHECKED	SEA	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 016-1101
SHEET NO. 1 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	44
STA.	TO STA.	CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

J:\2009\246 IDOT PTB 153 Item 2\Cadd\Design\016-1101\W.O.15 Oriole SteelPlans\016-1101.dgn 12:37:58 PM 12/7/2011

INDEX OF SHEETS

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts $^{7}/_{8}$ in. ϕ, holes $^{15}/_{16}$ in. ϕ, unless otherwise noted.

Calculated weight of Structural Steel = 401,510 lbs.

All structural steel shall be hot dipped galvanized. (See Special Provisions)

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.

Reinforcement bars designated (E) shall be epoxy coated.

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 for the work.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $^{1}/_{8}$ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Concrete Sealer shall be applied to the Backwalls, Bridge Seat and Front Face of Pile Cap of Abutments 1 and 3.

Any dissimilar metals shall have an isolation/separation barrier installed between contact surfaces.

TOTAL BILL OF MATERIALS

DESCRIPTION	UNIT	SUB	SUPER	TOTAL
Removal of Existing Structures	Each			1
Concrete Removal	Cu. Yds.	2.5		2.5
Protective Shield	Sq. Yds.		1,150	1,150
Structure Excavation	Cu. Yds.	2,055		2,055
Concrete Structures	Cu. Yds.	191.6		191.6
Concrete Superstructure	Cu. Yds.		638.5	638.5
Bridge Deck Grooving	Sq. Yd.		1,034	1,034
Protective Coat	Sq. Yd.		1,494	1,494
Furnishing and Erecting Structural Steel	L. Sum		1	1
Stud Shear Connectors	Ea.		5,256	5,256
Reinforcement Bars, Epoxy Coated	Pound	12,560	143,650	156,210
Bar Splicers	Ea.		100	100
Bridge Fence Railing	Foot		442	442
Furnishing Metal Shell Piles, 12" x 0.179"	Foot	2,071		2,071
Driving Piles	Foot	2,071		2,071
Test Pile Metal Shells	Ea.	2		2
Name Plates	Ea.		1	1
Preformed Joint Strip Seal	Foot		131	131
Elastomeric Bearing Assembly, Type I	Ea.		16	16
Anchor Bolts, 1"	Ea.		32	32
Anchor Bolts, 1½"	Ea.		16	16
Concrete Sealer	Sq. Ft.		1,370	1,370
Epoxy Crack Injection	Foot	6		6
Geocomposite Wall Drain	Sq. Yd.	128		128
Approach Slab Removal	Sq. Yd.		190	190
Removal of Asbestos Cement Conduit	Foot		273	273
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	70		70
Drainage Scuppers, DS-11	Ea.		4	4
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	4,417		4,417

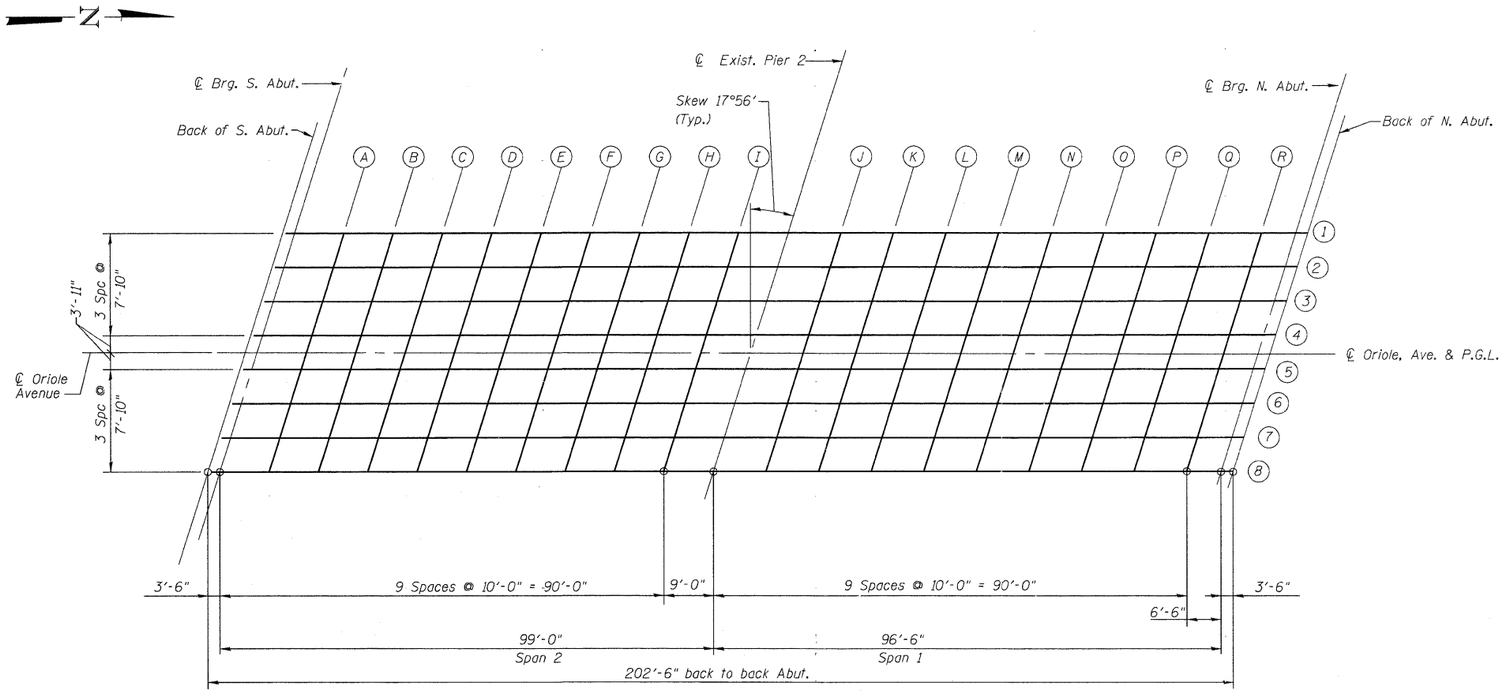
ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED - SEA	REVISED -	
CHECKED - RJL	REVISED -	
DRAWN - SCS	REVISED -	
CHECKED - SEA	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

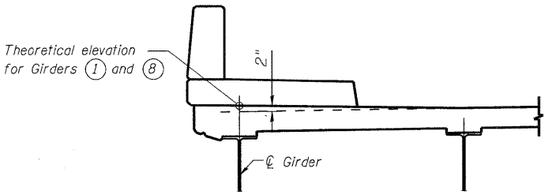
BILL OF MATERIAL & GENERAL NOTES
STRUCTURE NO. 016-1101
SHEET NO. 2 OF 36 SHEETS

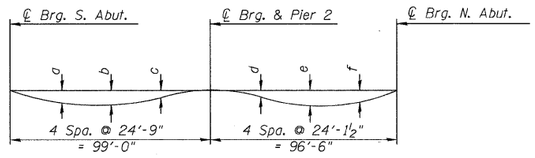
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	45
STA. TO STA.		CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN

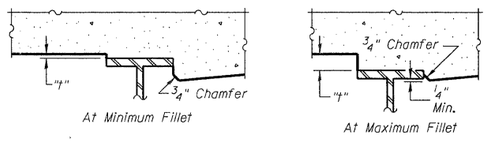
Note: Work this plan with tables on Sheet No. 4.





DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of slab and fillet only)



To determine "t": After all structural steel has been erected, elevations of the top flanges of the girders shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheet No. 4, minus slab thickness, equals the fillet heights "t" above top flange of girders.

FILLET HEIGHTS

TABLE OF DEAD LOAD DEFLECTIONS						
Girder	a	b	c	d	e	f
Exterior	1 1/8"	1 5/8"	5/8"	3/8"	1"	7/8"
Interior	1 1/8"	1 5/8"	5/8"	3/8"	1"	7/8"

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on Sheet No. 4.

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	- SEA	REVISED	-
CHECKED	- RJL	REVISED	-
DRAWN	- JJE	REVISED	-
CHECKED	- SEA	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK ELEVATION SCHEMATIC PLAN
STRUCTURE NO. 016-1101
SHEET NO. 3 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	46
STA.	TO STA.	CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back S. Abut.	7+06.37	-27.42	656.16	656.16
℄ Brg. S. Abut.	7+09.87	-27.42	656.24	656.24
A	7+19.87	-27.42	656.43	656.48
B	7+29.87	-27.42	656.62	656.70
C	7+39.87	-27.42	656.78	656.89
D	7+49.87	-27.42	656.94	657.06
E	7+59.87	-27.42	657.08	657.19
F	7+69.87	-27.42	657.20	657.29
G	7+79.87	-27.42	657.31	657.32
H	7+89.87	-27.42	657.40	657.43
I	7+99.87	-27.42	657.48	657.49
℄ Pier 2	8+08.87	-27.42	657.54	657.54
J	8+18.87	-27.42	657.59	657.59
K	8+28.87	-27.42	657.62	657.65
L	8+38.87	-27.42	657.65	657.70
M	8+48.87	-27.42	657.65	657.73
N	8+58.87	-27.42	657.64	657.73
O	8+68.87	-27.42	657.62	657.72
P	8+78.87	-27.42	657.58	657.67
Q	8+88.87	-27.42	657.53	657.59
R	8+98.87	-27.42	657.46	657.49
℄ Brg. N. Abut.	9+05.37	-27.42	657.41	657.41
Back N. Abut.	9+08.87	-27.42	657.38	657.38

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back S. Abut.	7+03.84	-19.58	656.10	656.10
℄ Brg. S. Abut.	7+07.34	-19.58	656.17	656.17
A	7+17.34	-19.58	656.37	656.41
B	7+27.34	-19.58	656.56	656.63
C	7+37.34	-19.58	656.73	656.92
D	7+47.34	-19.58	656.89	656.99
E	7+57.34	-19.58	657.03	657.13
F	7+67.34	-19.58	657.15	657.23
G	7+77.34	-19.58	657.27	657.30
H	7+87.34	-19.58	657.36	657.39
I	7+97.34	-19.58	657.45	657.45
℄ Pier 2	8+06.34	-19.58	657.51	657.51
J	8+16.34	-19.58	657.56	657.57
K	8+26.34	-19.58	657.60	657.62
L	8+36.34	-19.58	657.63	657.67
M	8+46.34	-19.58	657.64	657.70
N	8+56.34	-19.58	657.63	657.71
O	8+66.34	-19.58	657.61	657.70
P	8+76.34	-19.58	657.58	657.65
Q	8+86.34	-19.58	657.53	657.58
R	8+96.34	-19.58	657.47	657.49
℄ Brg. N. Abut.	9+02.84	-19.58	657.42	657.42
Back N. Abut.	9+06.34	-19.58	657.39	657.39

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back S. Abut.	7+01.30	-11.75	656.20	656.20
℄ Brg. S. Abut.	7+04.80	-11.75	656.27	656.27
A	7+14.80	-11.75	656.48	656.52
B	7+24.80	-11.75	656.67	656.74
C	7+34.80	-11.75	656.84	657.03
D	7+44.80	-11.75	657.00	657.11
E	7+54.80	-11.75	657.15	657.25
F	7+64.80	-11.75	657.28	657.36
G	7+74.80	-11.75	657.39	657.43
H	7+84.80	-11.75	657.50	657.52
I	7+94.80	-11.75	657.58	657.59
℄ Pier 2	8+03.80	-11.75	657.65	657.65
J	8+13.80	-11.75	657.70	657.71
K	8+23.80	-11.75	657.75	657.77
L	8+33.80	-11.75	657.78	657.82
M	8+43.80	-11.75	657.79	657.86
N	8+53.80	-11.75	657.79	657.87
O	8+63.80	-11.75	657.77	657.86
P	8+73.80	-11.75	657.74	657.82
Q	8+83.80	-11.75	657.70	657.75
R	8+93.80	-11.75	657.64	657.66
℄ Brg. N. Abut.	9+00.30	-11.75	657.59	657.59
Back N. Abut.	9+03.80	-11.75	657.56	657.56

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back S. Abut.	6+98.77	-3.92	656.26	656.26
℄ Brg. S. Abut.	7+02.27	-3.92	656.34	656.34
A	7+12.27	-3.92	656.54	656.59
B	7+22.27	-3.92	656.74	656.81
C	7+32.27	-3.92	656.92	657.10
D	7+42.27	-3.92	657.08	657.19
E	7+52.27	-3.92	657.23	657.33
F	7+62.27	-3.92	657.36	657.44
G	7+72.27	-3.92	657.48	657.52
H	7+82.27	-3.92	657.59	657.62
I	7+92.27	-3.92	657.68	657.69
℄ Pier 2	8+01.27	-3.92	657.75	657.75
J	8+11.27	-3.92	657.81	657.81
K	8+21.27	-3.92	657.86	657.88
L	8+31.27	-3.92	657.89	657.93
M	8+41.27	-3.92	657.91	657.97
N	8+51.27	-3.92	657.91	657.99
O	8+61.27	-3.92	657.90	657.98
P	8+71.27	-3.92	657.87	657.95
Q	8+81.27	-3.92	657.83	657.88
R	8+91.27	-3.92	657.77	657.80
℄ Brg. N. Abut.	8+97.77	-3.92	657.73	657.73
Back N. Abut.	9+01.27	-3.92	657.70	657.70

℄ ORIOLE AVENUE & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back S. Abut.	6+97.50	0.00	656.29	656.29
℄ Brg. S. Abut.	7+01.00	0.00	656.37	656.37
A	7+11.00	0.00	656.58	656.62
B	7+21.00	0.00	656.77	656.85
C	7+31.00	0.00	656.95	657.14
D	7+41.00	0.00	657.12	657.22
E	7+51.00	0.00	657.27	657.37
F	7+61.00	0.00	657.41	657.49
G	7+71.00	0.00	657.53	657.56
H	7+81.00	0.00	657.63	657.66
I	7+91.00	0.00	657.73	657.74
℄ Pier 2	8+00.00	0.00	657.80	657.80
J	8+10.00	0.00	657.86	657.87
K	8+20.00	0.00	657.91	657.93
L	8+30.00	0.00	657.94	657.99
M	8+40.00	0.00	657.96	658.03
N	8+50.00	0.00	657.97	658.05
O	8+60.00	0.00	657.96	658.04
P	8+70.00	0.00	657.93	658.01
Q	8+80.00	0.00	657.89	657.95
R	8+90.00	0.00	657.84	657.86
℄ Brg. N. Abut.	8+96.50	0.00	657.80	657.80
Back N. Abut.	9+00.00	0.00	657.77	657.77

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back S. Abut.	6+96.23	3.92	656.20	656.20
℄ Brg. S. Abut.	6+99.73	3.92	656.28	656.28
A	7+09.73	3.92	656.49	656.53
B	7+19.73	3.92	656.69	656.77
C	7+29.73	3.92	656.87	657.06
D	7+39.73	3.92	657.04	657.15
E	7+49.73	3.92	657.19	657.29
F	7+59.73	3.92	657.33	657.41
G	7+69.73	3.92	657.45	657.49
H	7+79.73	3.92	657.56	657.59
I	7+89.73	3.92	657.66	657.67
℄ Pier 2	7+98.73	3.92	657.73	657.73
J	8+08.73	3.92	657.79	657.80
K	8+18.73	3.92	657.85	657.87
L	8+28.73	3.92	657.88	657.93
M	8+38.73	3.92	657.90	657.97
N	8+48.73	3.92	657.91	657.99
O	8+58.73	3.92	657.90	657.99
P	8+68.73	3.92	657.88	657.95
Q	8+78.73	3.92	657.84	657.90
R	8+88.73	3.92	657.79	657.81
℄ Brg. N. Abut.	8+95.23	3.92	657.75	657.75
Back N. Abut.	8+98.73	3.92	657.72	657.72

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back S. Abut.	6+93.70	11.75	656.03	656.03
℄ Brg. S. Abut.	6+97.20	11.75	656.11	656.11
A	7+07.20	11.75	656.32	656.36
B	7+17.20	11.75	656.52	656.60
C	7+27.20	11.75	656.71	656.90
D	7+37.20	11.75	656.88	656.99
E	7+47.20	11.75	657.04	657.14
F	7+57.20	11.75	657.18	657.26
G	7+67.20	11.75	657.31	657.34
H	7+77.20	11.75	657.42	657.45
I	7+87.20	11.75	657.52	657.53
℄ Pier 2	7+96.20	11.75	657.59	657.59
J	8+06.20	11.75	657.66	657.67
K	8+16.20	11.75	657.72	657.74
L	8+26.20	11.75	657.76	657.80
M	8+36.20	11.75	657.78	657.85
N	8+46.20	11.75	657.79	657.87
O	8+56.20	11.75	657.79	657.87
P	8+66.20	11.75	657.77	657.84
Q	8+76.20	11.75	657.73	657.79
R	8+86.20	11.75	657.69	657.71
℄ Brg. N. Abut.	8+92.70	11.75	657.65	657.65
Back N. Abut.	8+96.20	11.75	657.62	657.62

GIRDER 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back S. Abut.	6+91.16	19.58	655.81	655.81
℄ Brg. S. Abut.	6+94.66	19.58	655.89	655.89
A	7+04.66	19.58	656.11	656.16
B	7+14.66	19.58	656.32	656.39
C	7+24.66	19.58	656.51	656.70
D	7+34.66	19.58	656.68	656.79
E	7+44.66	19.58	656.84	656.94
F	7+54.66	19.58	656.99	657.07
G	7+64.66	19.58	657.12	657.15
H	7+74.66	19.58	657.24	657.27
I	7+84.66	19.58	657.34	657.35
℄ Pier 2	7+93.66	19.58	657.42	657.42
J	8+03.66	19.58	657.49	657.50
K	8+13.66	19.58	657.55	657.57
L	8+23.66	19.58	657.59	657.64
M	8+33.66	19.58	657.62	657.69
N	8+43.66	19.58	657.64	657.72
O	8+53.66	19.58	657.63	657.72
P	8+63.66	19.58	657.62	657.70
Q	8+73.66	19.58	657.59	657.64
R	8+83.66	19.58	657.54	657.57
℄ Brg. N. Abut.	8+90.16	19.58	657.51	657.51
Back N. Abut.	8+93.66	19.58	657.48	657.48

GIRDER 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back S. Abut.	6+88.63	27.42	655.77	655.77
℄ Brg. S. Abut.	6+92.13	27.42	655.85	655.85
A	7+02.13	27.42	656.07	656.12
B	7+12.13	27.42	656.28	656.37
C	7+22.13	27.42	656.48	656.59
D	7+32.13	27.42	656.66	656.78
E	7+42.13	27.42	656.82	656.93
F	7+52.13	27.42	656.97	657.06
G	7+62.13	27.42	657.10	657.11
H	7+72.13	27.42	657.22	657.26
I	7+82.13	27.42	657.33	657.34
℄ Pier 2	7+91.13	27.42	657.41	657.41
J	8+01.13	27.42	657.49	657.49
K	8+11.13	27.42	657.55	657.58
L	8+21.13	27.42	657.60	657.65
M	8+31.13	27.42	657.63	657.70
N	8+41.13	27.42	657.65	657.74
O	8+51.13	27.42	657.65	657.75
P	8+61.13	27.42	657.64	657.73
Q	8+71.13	27.42	657.61	657.67
R	8+81.13	27.42	657.57	657.60
℄ Brg. N. Abut.	8+87.63	27.42	657.54	657.54
Back N. Abut.	8+91.13	27.42	657.51	657.51

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED - SEA	REVISED -	
CHECKED - RJL	REVISED -	
DRAWN - SCS	REVISED -	
CHECKED - SEA	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK ELEVATIONS
STRUCTURE NO. 016-1101
SHEET NO. 4 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	47
STA. TO STA.		CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

J:\2009\246 IDOT PTB 153 Item 2\Cadd\Design\016-1101\W.O. 15 Oriole Steel Plans\016-1101.dgn 12:38:06 PM 12/7/2011

EDGE OF APPROACH SLAB (LEFT)

Location	Station	Offset	Theoretical Grade Elevations
End S. Appr. Slab	6+77.55	-29.50	655.29
S	6+87.55	-29.50	655.53
T	6+97.55	-29.50	655.76
Edge of Slab S. Abut.	7+07.54	-29.50	655.98
Edge of Slab N. Abut.	9+10.24	-33.19	657.09
U	9+20.24	-37.90	656.92
V	9+30.24	-41.00	656.83
End N. Appr. Slab	9+40.24	-33.19	657.04

℄ ROADWAY & PGL

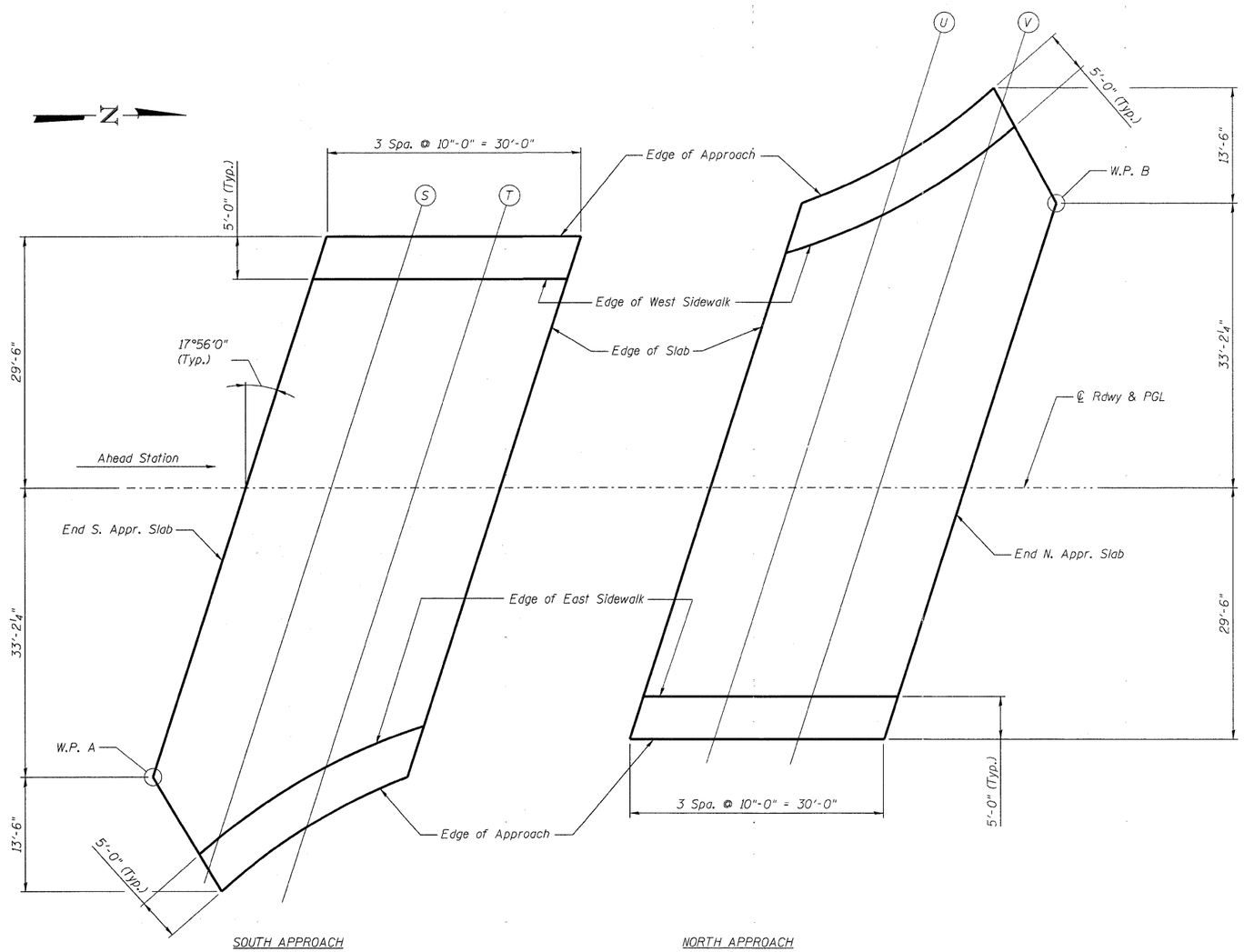
Location	Station	Offset	Theoretical Grade Elevations
End S. Appr. Slab	6+68.00	0.00	655.57
S	6+78.00	0.00	655.83
T	6+88.00	0.00	656.07
Edge of Slab S. Abut.	6+98.00	0.00	656.30
Edge of Slab N. Abut.	8+99.50	0.00	657.77
U	9+09.50	0.00	657.69
V	9+19.50	0.00	657.62
End N. Appr. Slab	9+29.50	0.00	657.59

EDGE OF APPROACH SLAB (RIGHT)

Location	Station	Offset	Theoretical Grade Elevations
End S. Appr. Slab	6+57.26	33.19	654.68
S	6+67.26	41.00	654.79
T	6+77.26	37.90	655.11
Edge of Slab S. Abut.	6+87.26	33.19	655.46
Edge of Slab N. Abut.	8+89.95	29.50	657.31
U	8+99.95	29.50	657.24
V	9+09.95	29.50	657.16
End N. Appr. Slab	9+19.95	29.50	657.09

ADDITIONAL WORK POINTS

Location	Station	Offset	Theoretical Grade Elevations
W.P. A	6+57.26	33.19	654.68
W.P. B	9+40.24	-33.19	657.04



PLAN

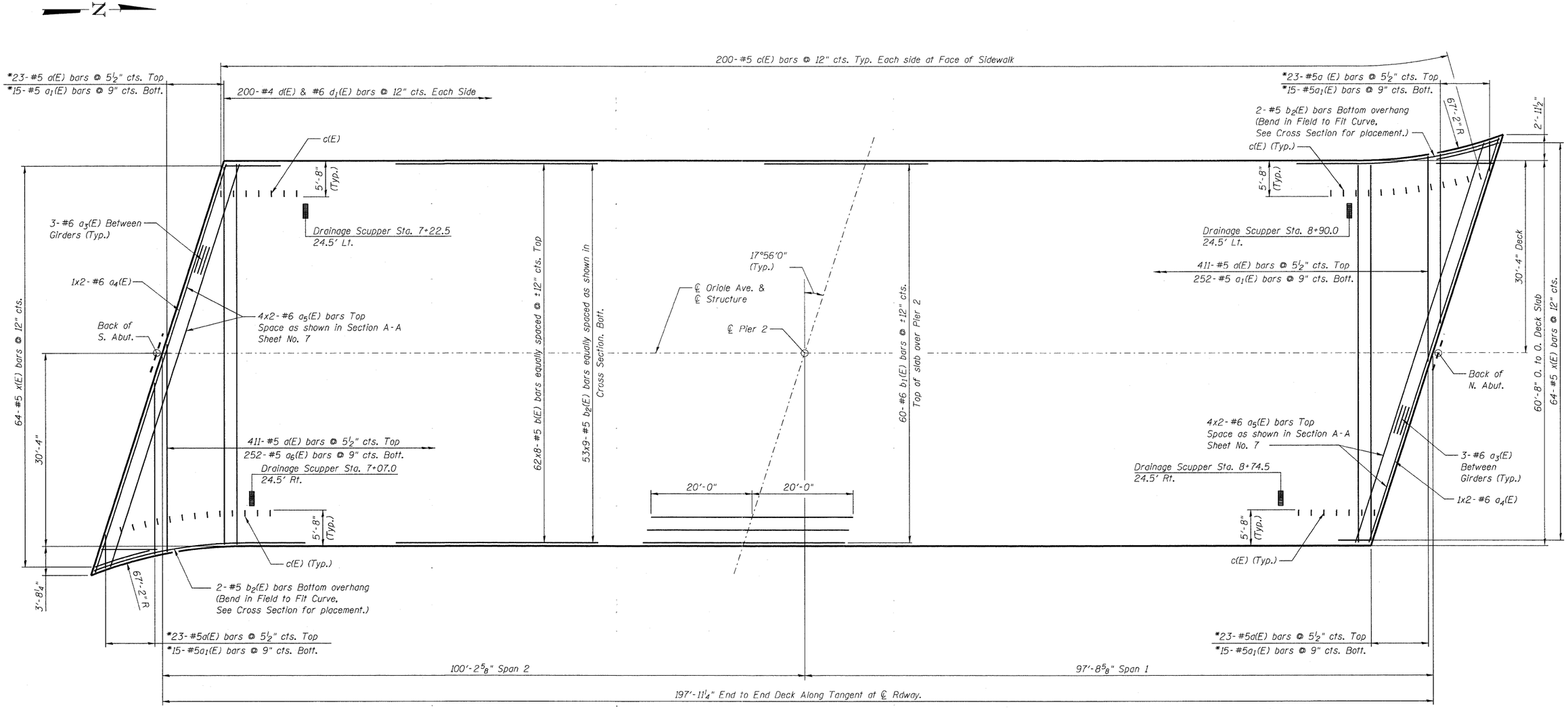
ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED - SEA	REVISED -	
CHECKED - RJL	REVISED -	
DRAWN - SCS	REVISED -	
CHECKED - SEA	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF APPROACH SLAB ELEVATIONS
STRUCTURE NO. 016-1101
SHEET NO. 5 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	48
STA. TO STA.		CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DECK PLAN

* Order bars full length.
Cut to fit skew and use remainder
of bars in opposite end

Notes:

For Deck Cross Section see Sheet No. 7.

For Sidewalk Plan see Sheet No. 8.

Minimum lap length #5 bars=2'-7" if spaced 6" or more
#6 bars=3'-1"

Reinforcement bars designated (E) shall be Epoxy coated.

Bars detailed thus 62x10-#5 etc. indicates 62 lines of bars with 10 lengths per line

Drains shall be located clear of all diaphragms.

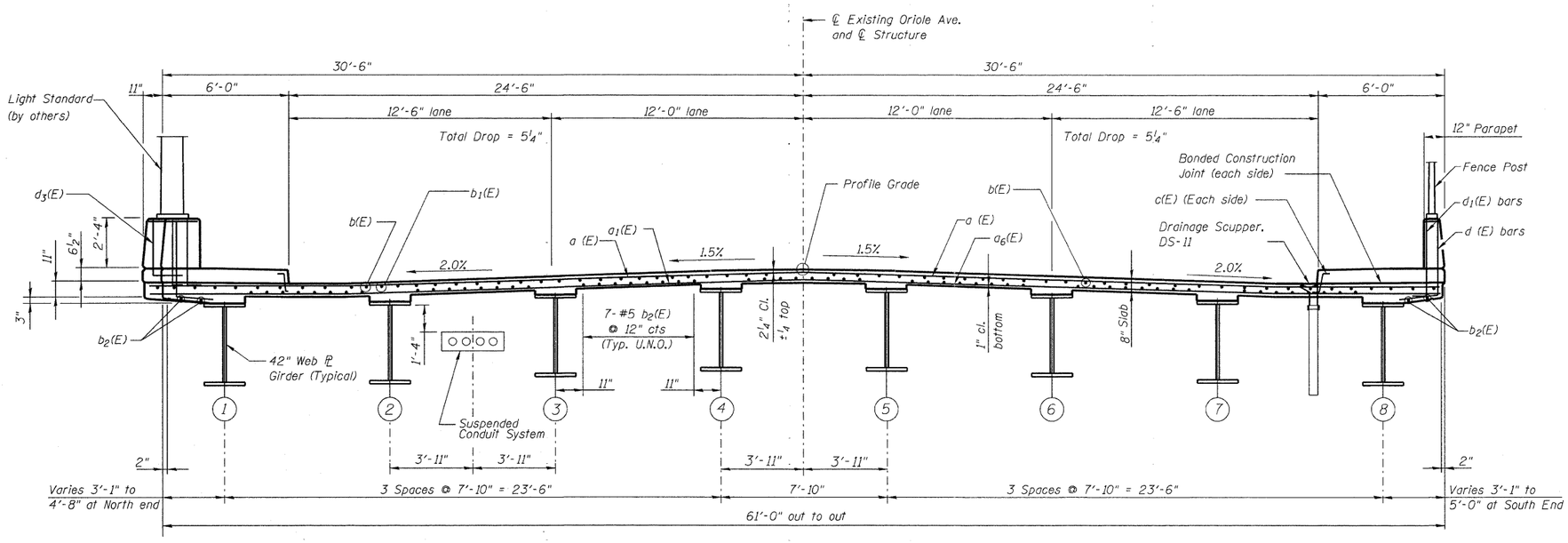
ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED - SEA	REVISED -
CHECKED - RJL	REVISED -
DRAWN - SCS	REVISED -
CHECKED - SEA	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

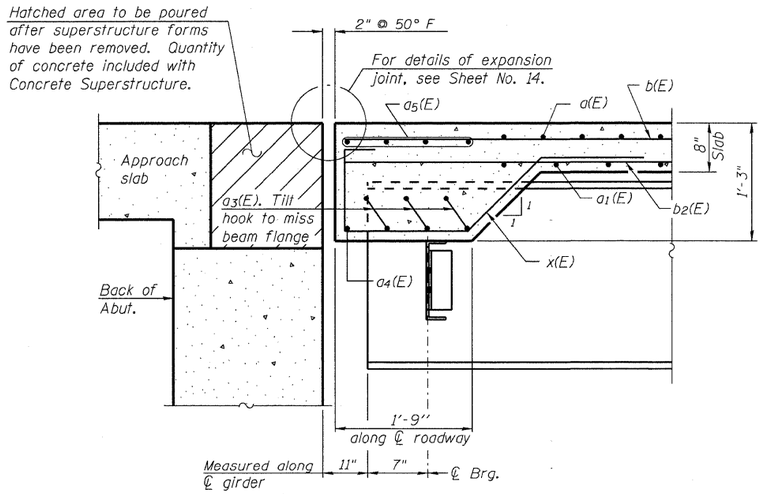
DECK PLAN
STRUCTURE NO. 016-1101
SHEET NO. 6 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	49
STA.	TO STA.	CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

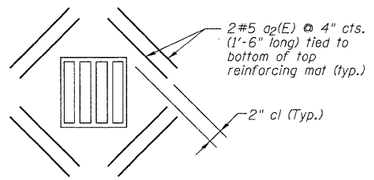


CROSS SECTION (SHOWING DECK REINF. ONLY)

Looking North



SECTION A-A



TYPICAL SCUPPER DETAIL

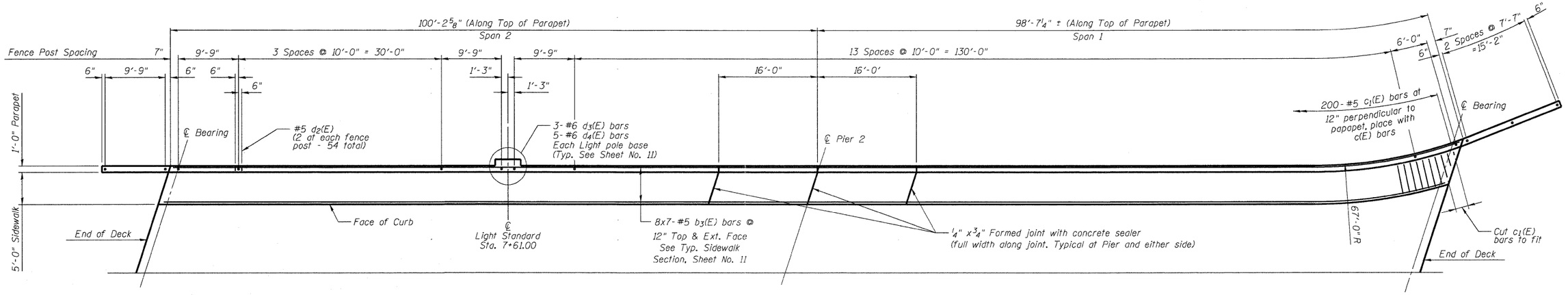
Note: Cut longitudinal reinforcement to clear drainage scuppers.

ABNA DESIGN FIRM REG. 184.002117	9901 S. Western Ave. Chicago, IL 60643 Ph. 773-881-4788 F: 773.239.3728	DESIGNED - SEA	REVISED -
		CHECKED - RJL	REVISED -
		DRAWN - JJE / SCS	REVISED -
		CHECKED - SEA	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

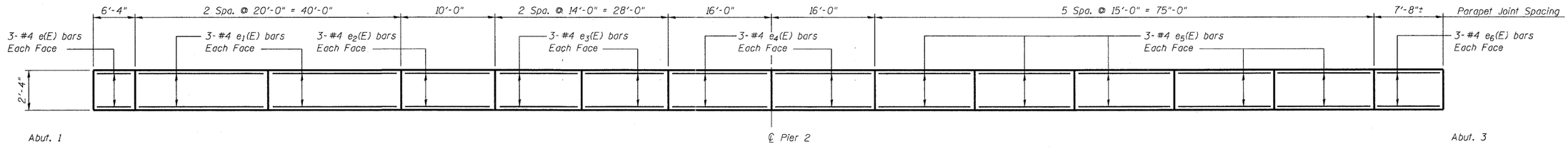
DECK CROSS SECTIONS
STRUCTURE NO. 016-1101
SHEET NO. 7 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	50
STA.	TO STA.	CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

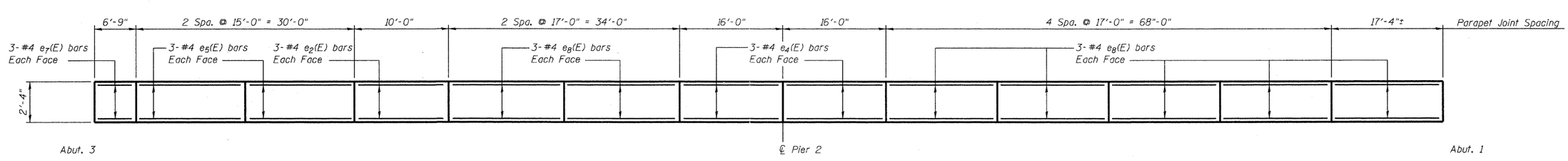


WEST SIDEWALK AND PARAPET PLAN

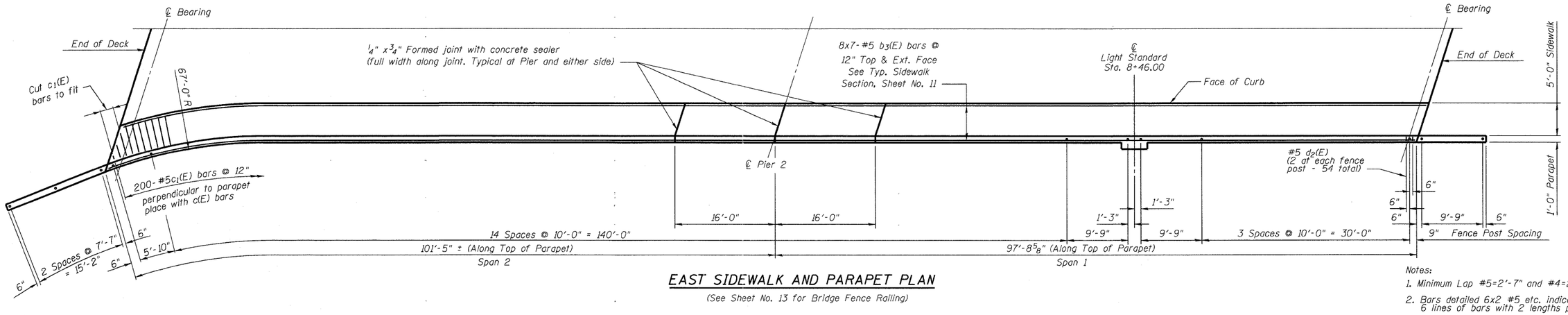
(See Sheet No. 13 for Bridge Fence Railing)



INSIDE ELEVATION OF WEST PARAPET



INSIDE ELEVATION OF EAST PARAPET



EAST SIDEWALK AND PARAPET PLAN

(See Sheet No. 13 for Bridge Fence Railing)

Notes:

1. Minimum Lap #5=2'-7" and #4=2'-1'
2. Bars detailed 6x2 #5 etc. indicates 6 lines of bars with 2 lengths per line.

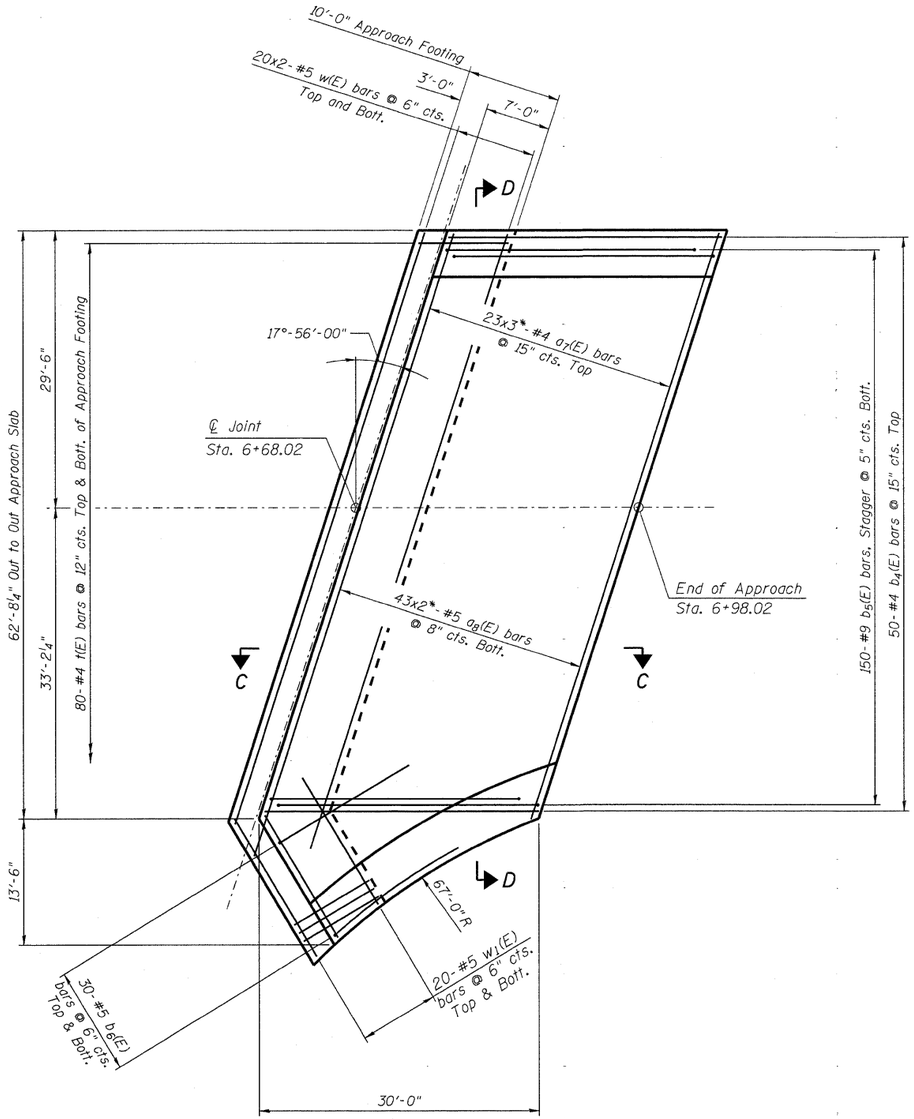
ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED - SEA	REVISED -	
CHECKED - RJL	REVISED -	
DRAWN - SCS	REVISED -	
CHECKED - SEA	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

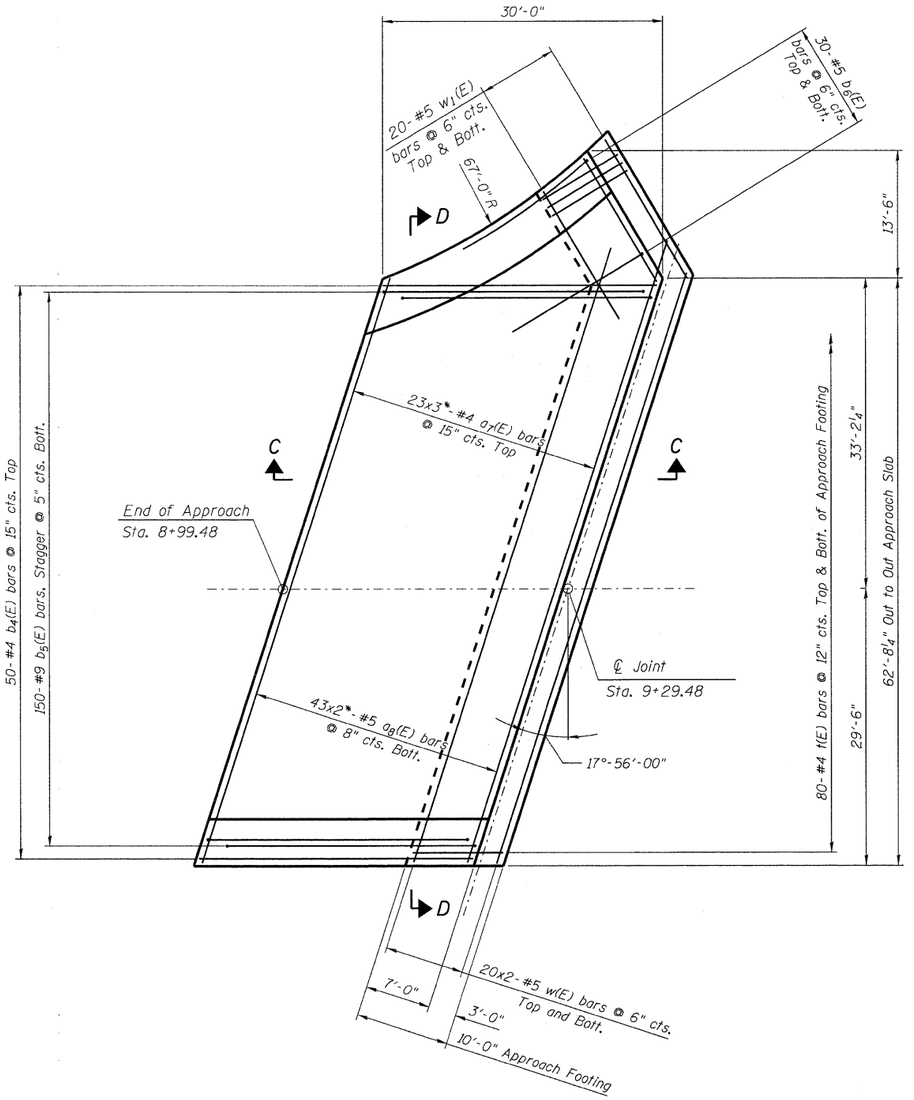
PLAN OF SIDEWALK AND PARAPET
STRUCTURE NO. 016-1101
SHEET NO. 8 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	51
STA. TO STA.		CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SOUTH APPROACH SLAB PLAN

* Lap Length will vary



NORTH APPROACH SLAB PLAN

* Lap Length will vary

Notes:
1. See Sheet No. 10 for Sections C-C and D-D.
2. For details not shown, see Std.420401.
3. Tilt #9 bars to maintain clearance.

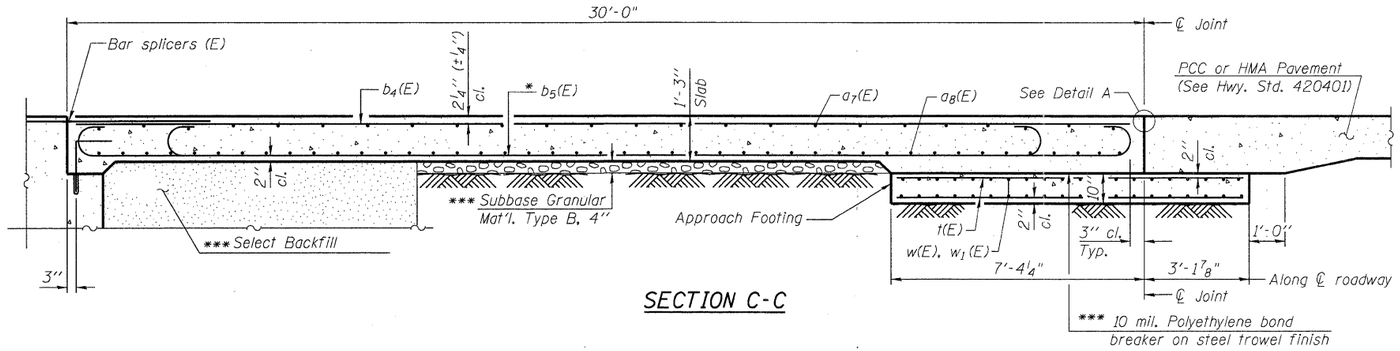
ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED - SEA	REVISED -	
CHECKED - RJL	REVISED -	
DRAWN - SCS	REVISED -	
CHECKED - SEA	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

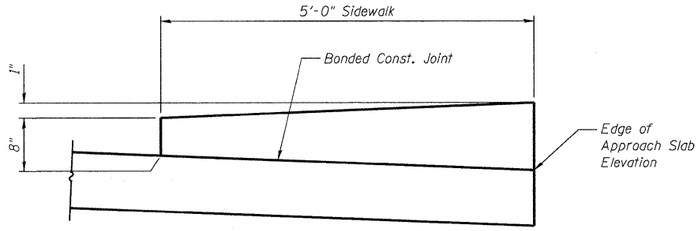
APPROACH SLAB PLANS
STRUCTURE NO. 016-1101
SHEET NO. 9 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	52
STA. TO STA.		CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

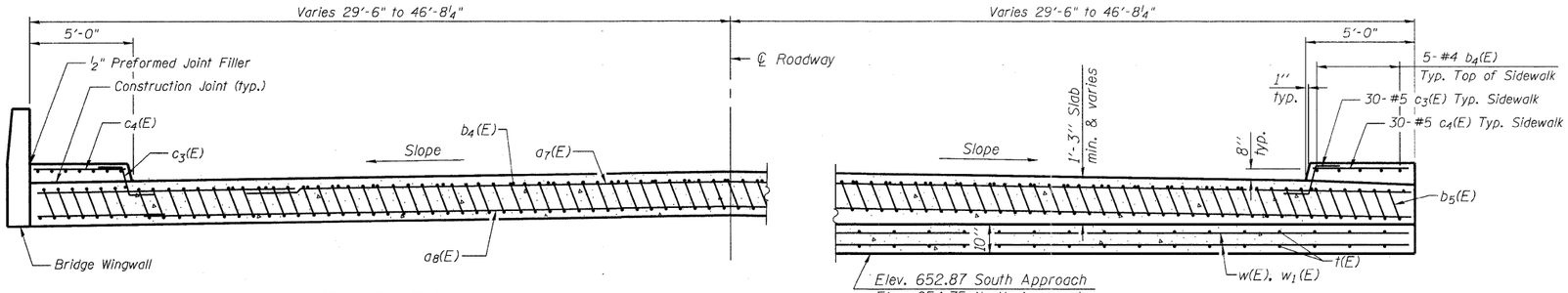


SECTION C-C

Notes:
Approach slab and sidewalk 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.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
For bar splicer details, see Sheet No. 31.
Cost of excavation for approach footing included with Concrete Structures.



TYPICAL SIDEWALK DETAIL



NEAR ABUTMENT

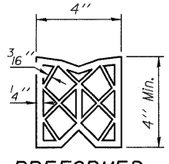
SECTION D-D
(See Plan for dimensions not shown)

AT APPROACH FOOTING

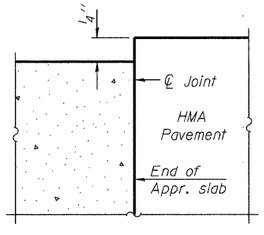
* Tilt #9 bars as required to maintain clearance.

** Cut length of bars in field to provide 24" extension beyond b_5 bar.

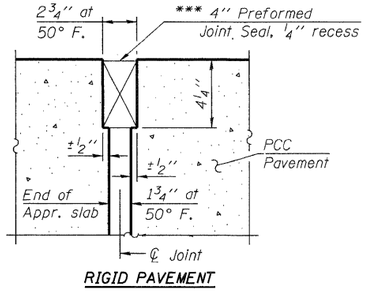
*** Cost included with Concrete Superstructure.



PREFORMED JOINT SEAL

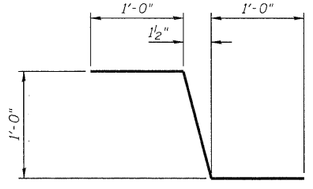


FLEXIBLE PAVEMENT

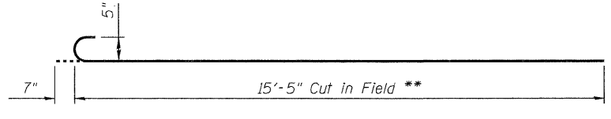


RIGID PAVEMENT

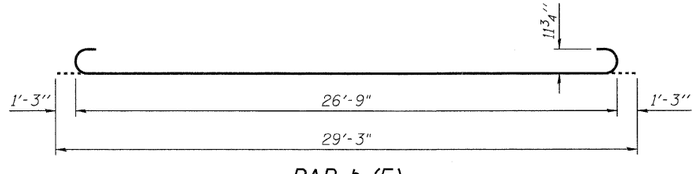
DETAIL A



BAR c_3(E)



BAR b_6(E)



BAR b_5(E)

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_7(E)	138	#4	26'-10"	
a_8(E)	172	#5	39'-3"	
b_4(E)	120	#4	29'-6"	
b_5(E)	300	#9	29'-3"	
b_6(E)	120	#5	16'-0"	
c_3(E)	120	#5	3'-0"	
c_4(E)	120	#5	4'-7"	
t(E)	160	#4	9'-8"	
w(E)	160	#5	34'-3"	
w_1(E)	80	#5	10'-0"	
Concrete Superstructure			Cu. Yd.	205.9
Concrete Structures			Cu. Yd.	47.0
Reinforcement Bars, Epoxy Coated			Pound	51,800

ABNA
DESIGN FIRM REG. 184.002117

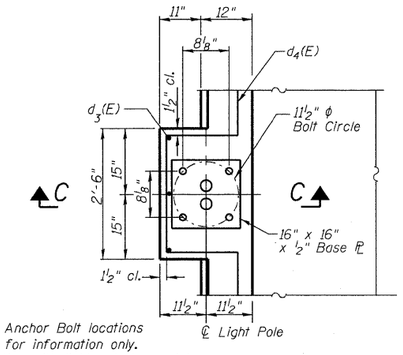
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	- SEA	REVISED	-
CHECKED	- RJL	REVISED	-
DRAWN	- JJE / SCS	REVISED	-
CHECKED	- SEA	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

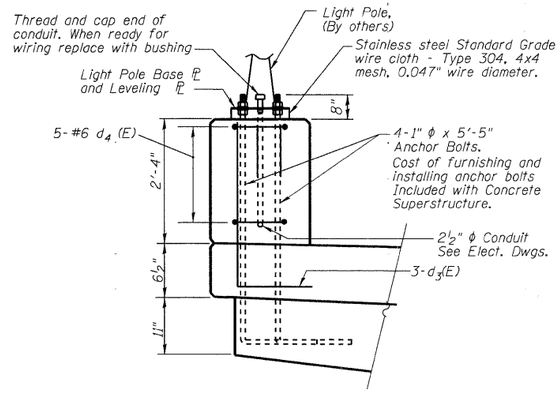
APPROACH SLAB DETAILS
STRUCTURE NO. 016-1101
SHEET NO. 10 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	53
STA.	TO STA.	CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

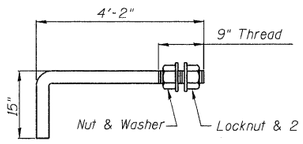


NOTE:
Light Pole Anchor Bolt locations shown are for information only.
Verify location with light pole base plate

PLAN LIGHT POLE SUPPORT

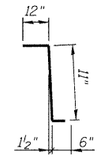


SECTION C-C

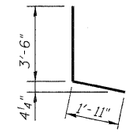


Provide 3 flat washers 1 nut and 1 locknut. All nuts and washers shall be galvanized.

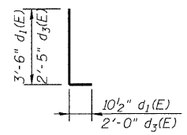
1" ϕ ANCHOR BOLT
(8 Required)



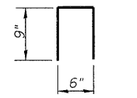
BAR c (E)



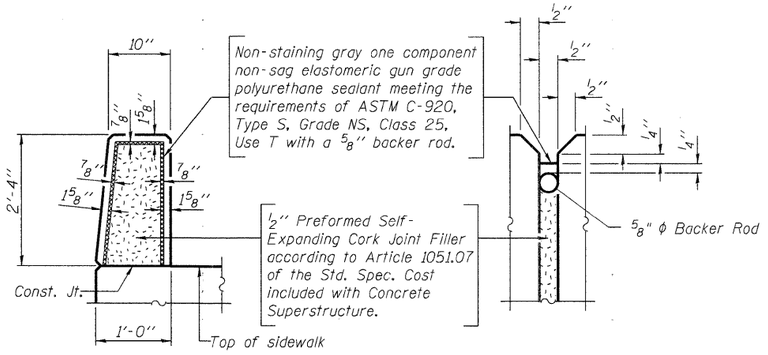
BAR d (E)



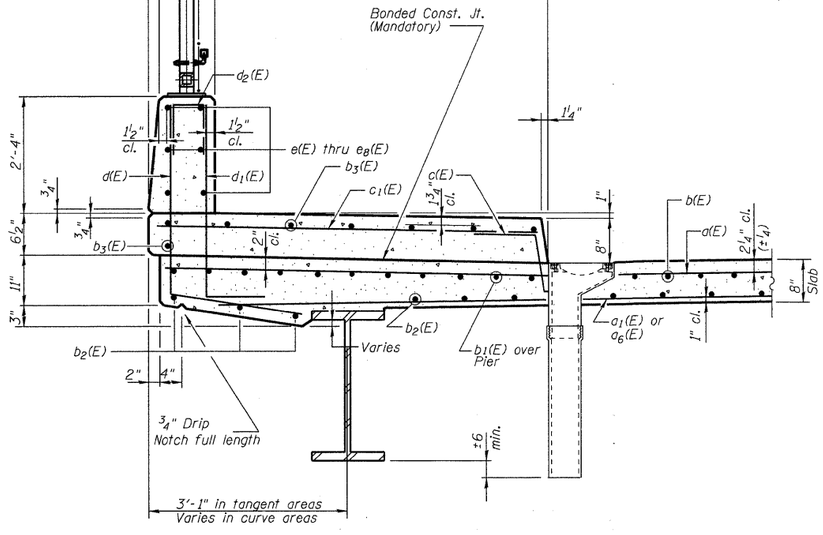
BAR d_1(E)
BAR d_3(E)



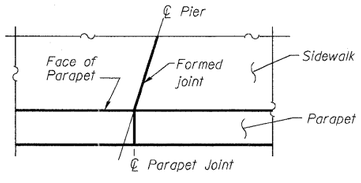
BAR d_2(E)



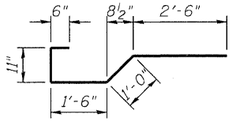
PARAPET JOINT DETAILS



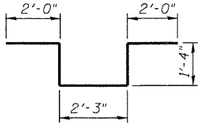
TYPICAL SIDEWALK SECTION



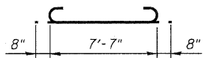
TYP. DETAIL AT PIER



BAR x(E)



BAR d_4(E)



BAR a_3(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	868	#5	31'-10"	
a_1(E)	282	#5	34'-3"	
a_2(E)	32	#5	1'-6"	
a_3(E)	42	#6	8'-11"	
a_4(E)	4	#6	35'-0"	
a_5(E)	16	#6	35'-0"	
a_6(E)	252	#5	29'-1"	
b(E)	496	#5	27'-2"	
b_1(E)	60	#6	40'-0"	
b_2(E)	481	#5	24'-4"	
b_3(E)	112	#5	30'-6"	
c(E)	400	#5	2'-5"	
c_1(E)	400	#5	5'-7"	
d(E)	400	#4	5'-5"	
d_1(E)	400	#6	4'-4½"	
d_2(E)	112	#5	2'-0"	
d_3(E)	6	#6	4'-5"	
d_4(E)	10	#6	8'-11"	
e(E)	6	#4	6'-0"	
e_1(E)	12	#4	19'-8"	
e_2(E)	12	#4	9'-8"	
e_3(E)	12	#4	13'-8"	
e_4(E)	24	#4	15'-8"	
e_5(E)	42	#4	14'-8"	
e_6(E)	6	#4	7'-4"	
e_7(E)	6	#4	6'-5"	
e_8(E)	42	#4	16'-8"	
x(E)	128	#5	6'-5"	
Reinforcement bars, epoxy coated			Pounds	91,850
Concrete Superstrucure			Cu. Yds.	432.6

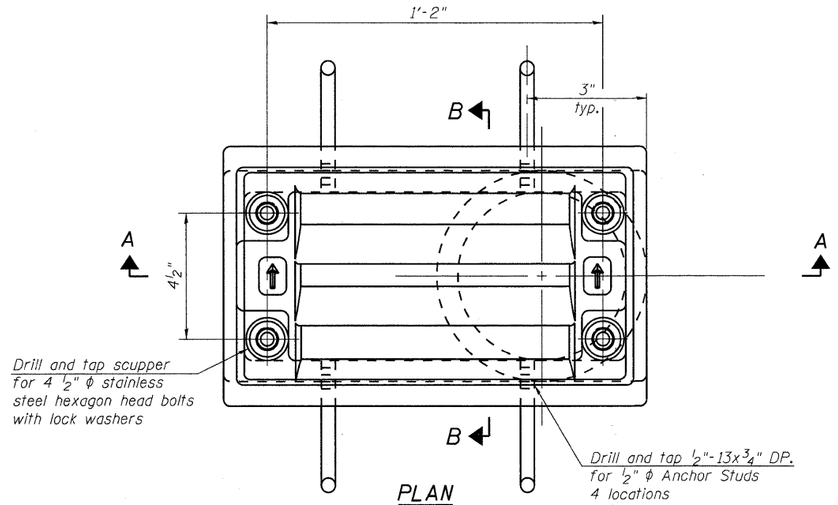
ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	- SEA	REVISED -
CHECKED	- RJL	REVISED -
DRAWN	- JJE / SCS	REVISED -
CHECKED	- SEA	REVISED -

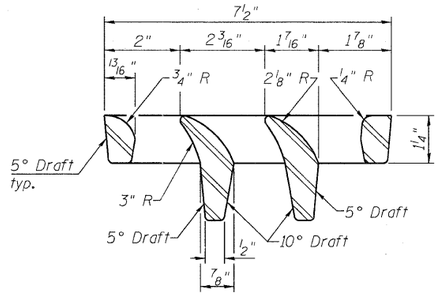
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK AND PARAPET DETAILS
STRUCTURE NO. 016-1101
SHEET NO. 11 OF 36 SHEETS

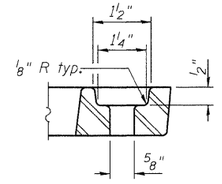
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	54
STA. TO STA.		CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN



VANE GRATE DETAIL



BOLT HOLE DETAIL

Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.

Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.

Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.

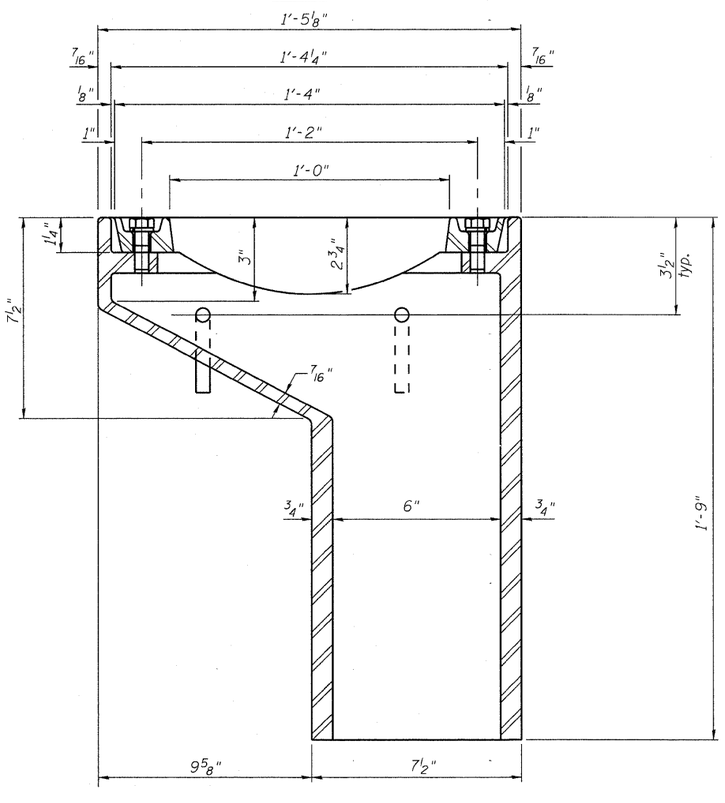
As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.

Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.

The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

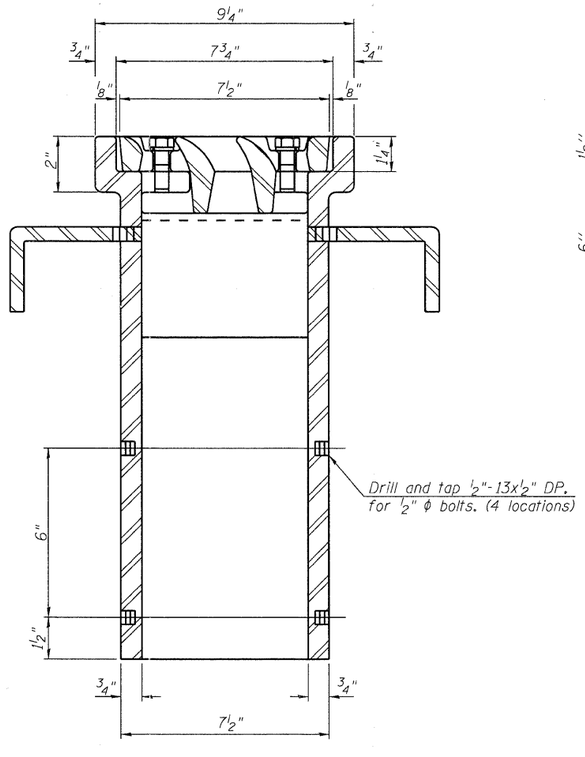
Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-11.

Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.

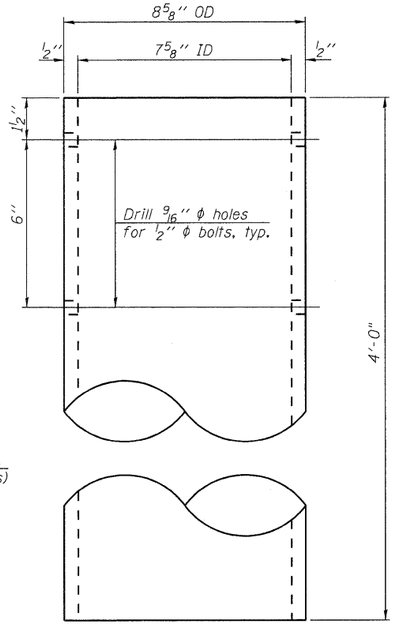


SECTION A-A

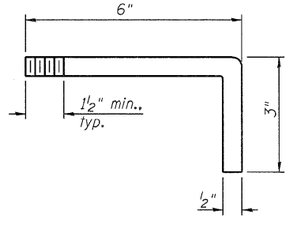
See Sheet No. 11 for scupper location relative to parapet.



SECTION B-B



DOWNSPOUT



ANCHOR STUD DETAIL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	4

DS-11 7-1-10

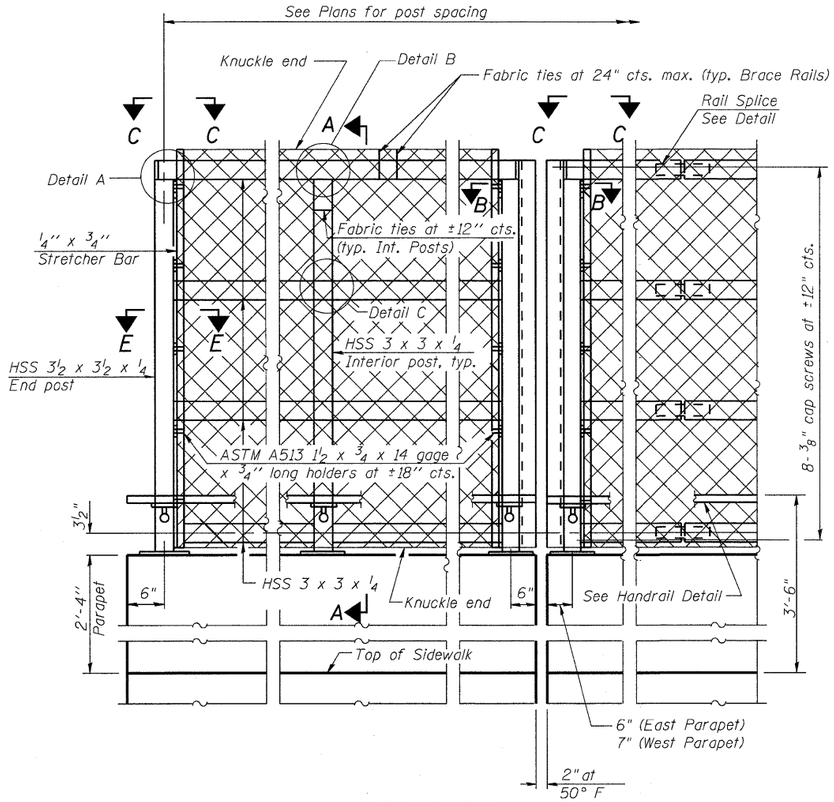
ABNA DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED - TBS	REVISED -	
CHECKED - RJL	REVISED -	
DRAWN - JJE	REVISED -	
CHECKED - SEA	REVISED -	

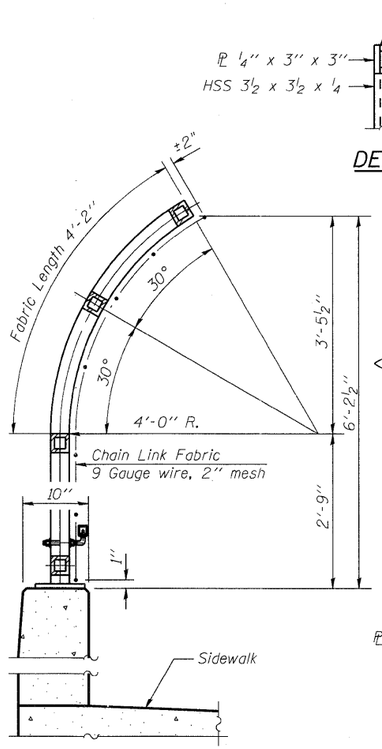
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER, DS-11
STRUCTURE NO. 016-1101
SHEET NO. 12 OF 36 SHEETS

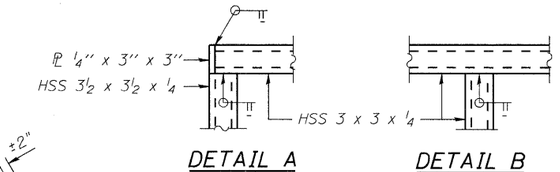
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	55
STA. TO STA.		CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



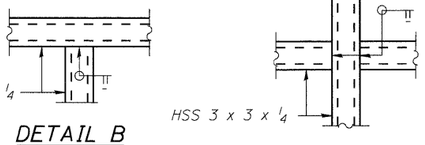
ELEVATION
(Inside Face)



SECTION A-A



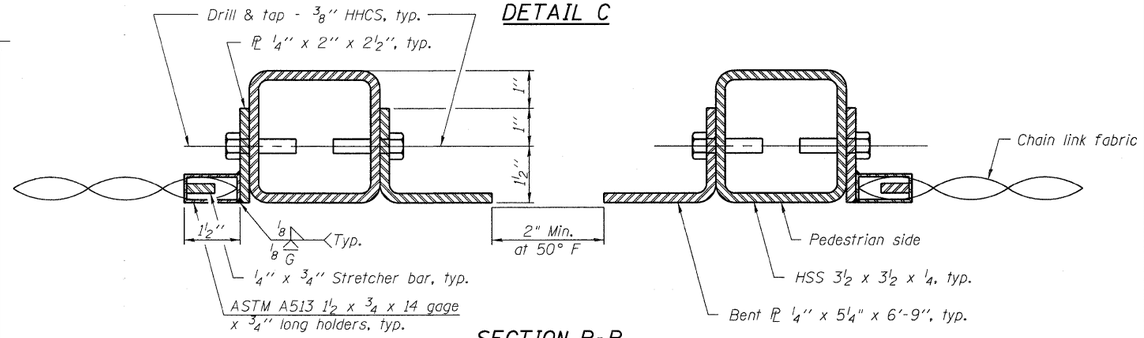
DETAIL A

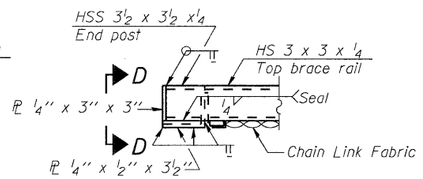


DETAIL B

DETAIL C

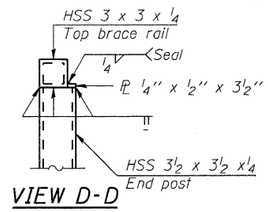
Note:
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



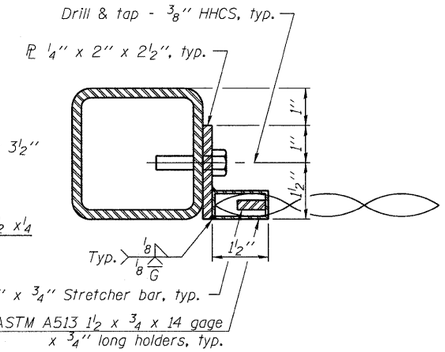


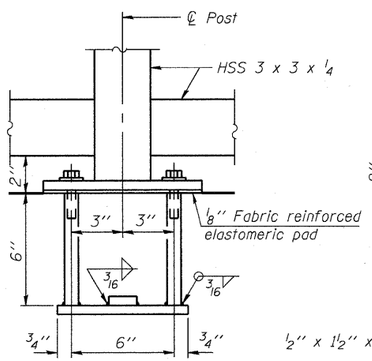
VIEW C-C

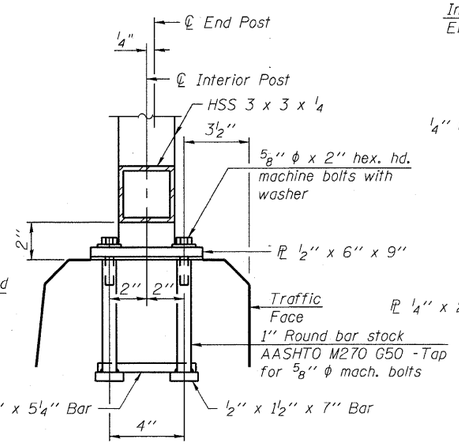
SECTION B-B
(At Expansion Joint)



VIEW D-D

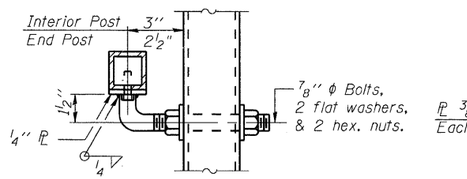


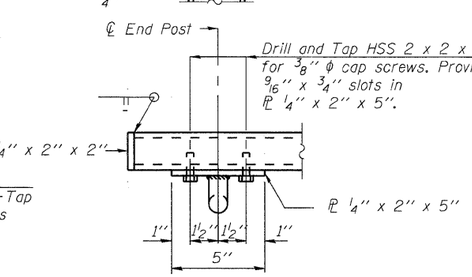




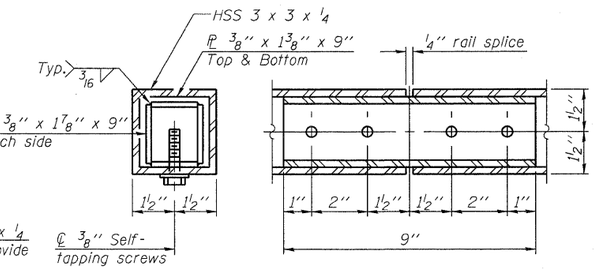
ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

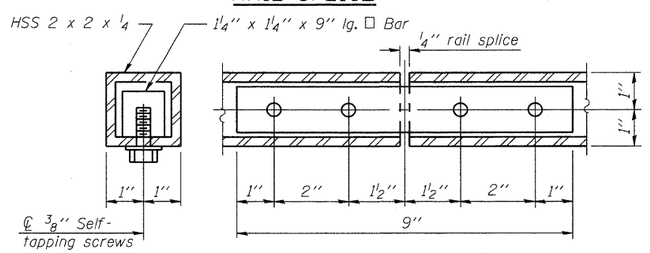




HANDRAIL DETAIL

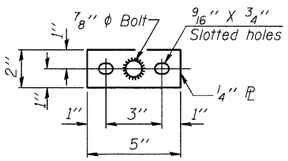


RAIL SPLICE

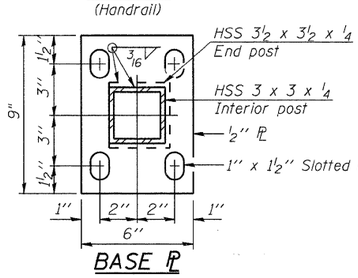


HANDRAIL SPLICE

SECTION E-E



BASE ℄
(Handrail)



BASE ℄

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Fence Railing	Foot	442

R-32

7-1-10

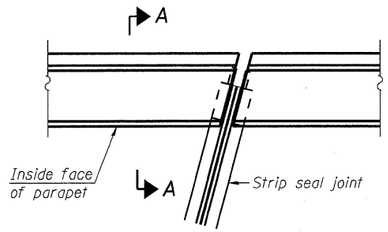
ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED - TBS	REVISED -	
CHECKED - RJL	REVISED -	
DRAWN - JJE	REVISED -	
CHECKED - SEA	REVISED -	

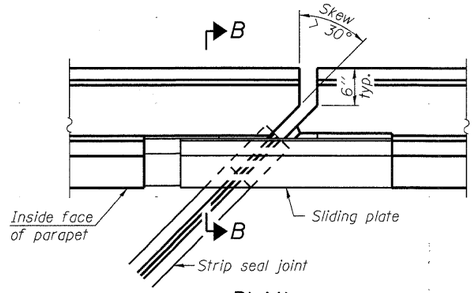
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE FENCE RAILING, PARAPET MOUNTED
STRUCTURE NO. 016-1101
SHEET NO. 13 OF 36 SHEETS

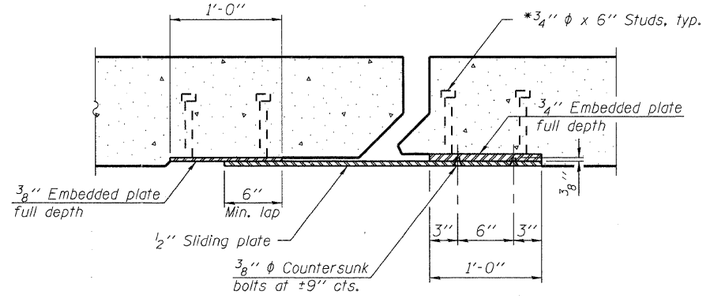
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	56
STA. TO STA.		CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



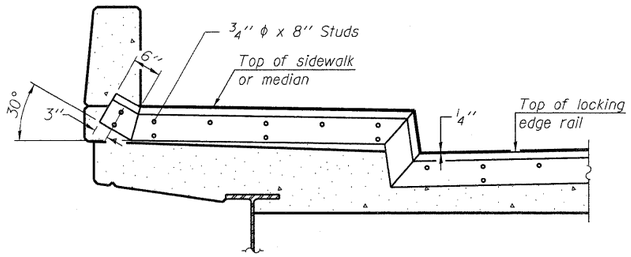
PLAN
(For skews ≤ 30°)



PLAN
(For skews > 30°)
Showing point block

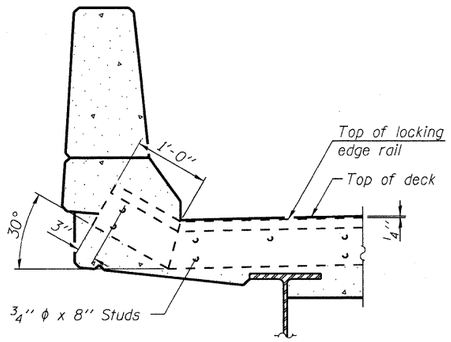


SECTION C-C

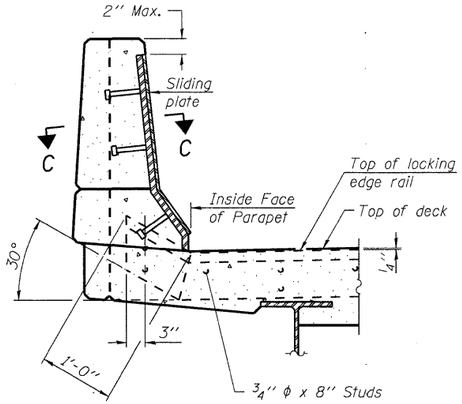


SECTION A-A
TYPICAL END TREATMENT
AT SIDEWALK OR MEDIAN

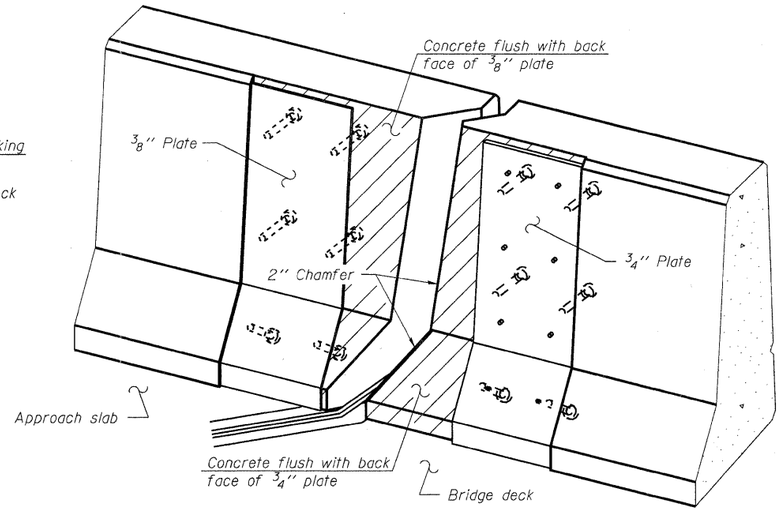
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



SECTION A-A

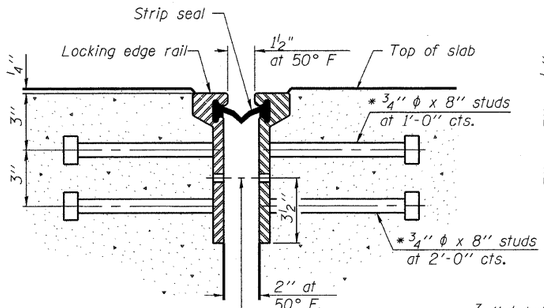


SECTION B-B



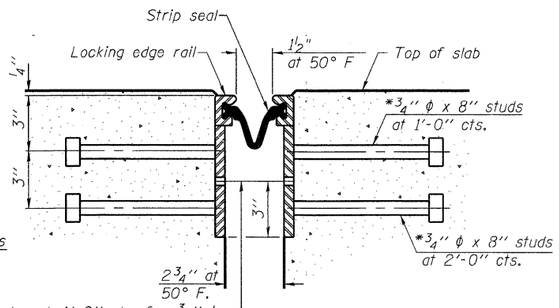
TRIMETRIC VIEW
(Showing back plates only)

Notes:
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.
The manufacturer's recommended installation methods shall be followed.
The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.
Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.



7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

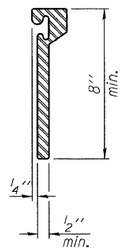
SECTION THRU
ROLLED RAIL JOINT



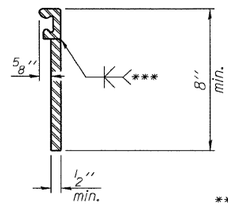
7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

SECTION THRU
WELDED RAIL JOINT

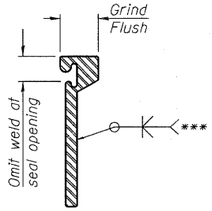
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



ROLLED
EXTRUDED RAIL



WELDED RAIL



*** Back gouge not required if complete joint penetration is verified by mock-up.

LOCKING EDGE
RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.
Rolled rail shown, welded rail similar.

LOCKING EDGE RAILS

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	131

EJ-SSJ 7-1-10

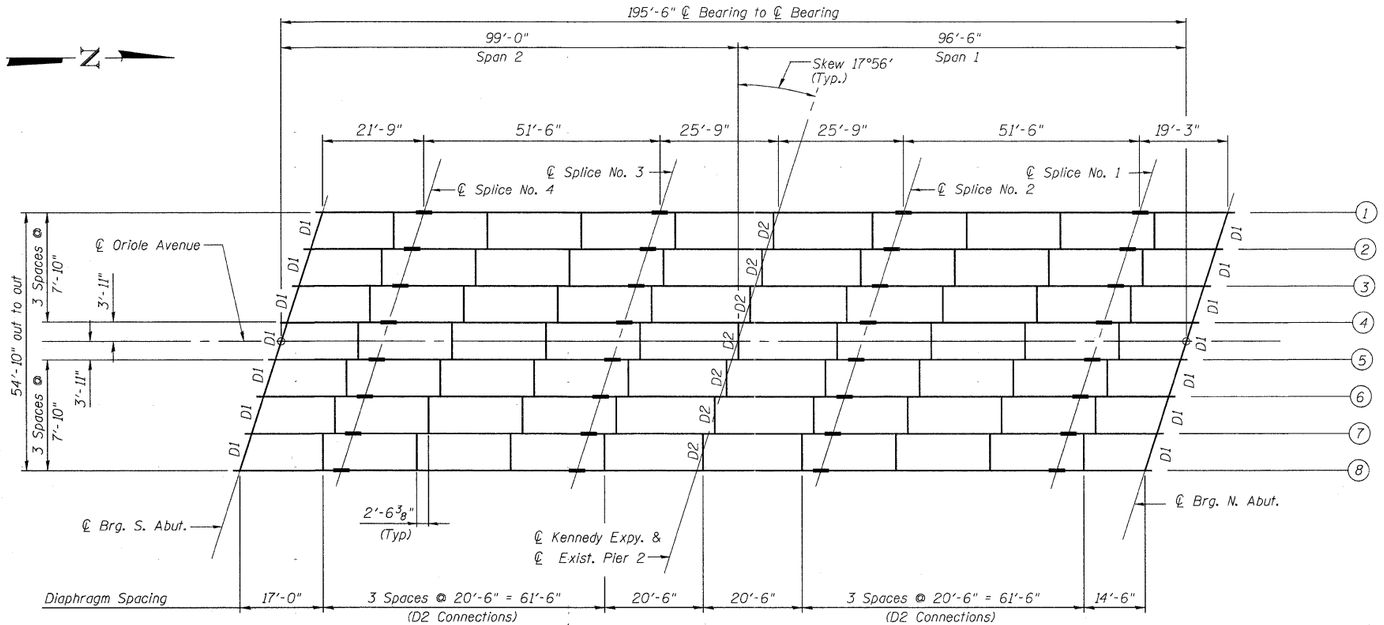
ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	- SEA	REVISED	-
CHECKED	- RJL	REVISED	-
DRAWN	- JJE / SCS	REVISED	-
CHECKED	- SEA	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 016-1101
SHEET NO. 14 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	57
STA.	TO STA.	CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FRAMING PLAN

Note:

All 42" Web ℄ Girders shall be AASHTO M 270 Grade 50 - Galvanized.

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.

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

Girders have bearing stiffeners and connection plates as required by design. Additional stiffeners may be added at the Contractor's expense as necessary to prevent distortion of the girders during galvanizing. The Contractor shall coordinate with the fabricator and the galvanizer to determine if additional stiffeners are necessary, and where these should be placed. Any proposed changes shall be submitted to the Engineer for approval prior to making any changes.

Temporary stiffener angles shall be bolted to each side of the splice ends of each girder segment to prevent distortion during galvanizing. Temporary stiffener angles shall bolt or fit tight against top & bottom flanges and include spacer tubes to minimize damage to galvanizing during removal. Cost included with Furnishing & Erecting Structural Steel.

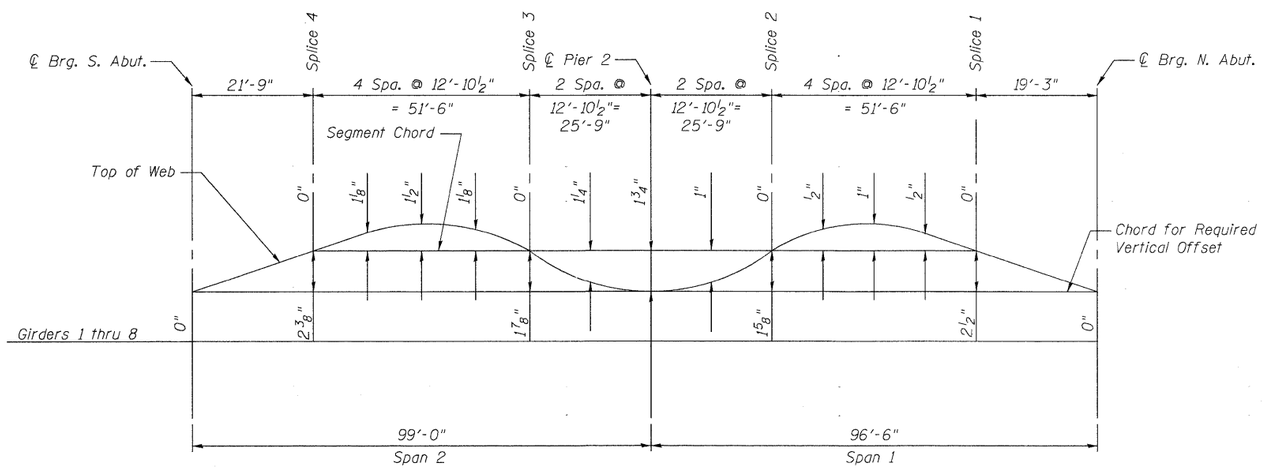
ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED - SEA	REVISED -
CHECKED - RJL	REVISED -
DRAWN - SCS	REVISED -
CHECKED - SEA	REVISED -

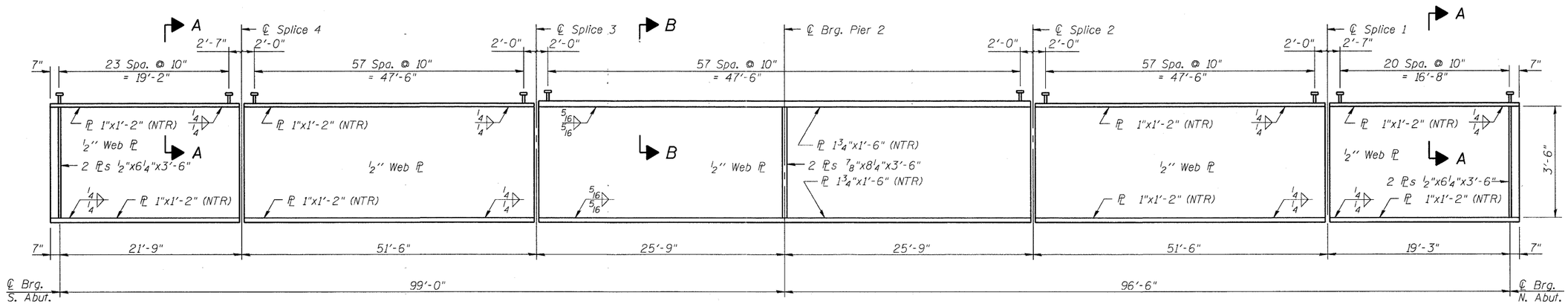
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL FRAMING PLAN
STRUCTURE NO. 016-1101
SHEET NO. 15 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	58
STA. TO STA.		CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

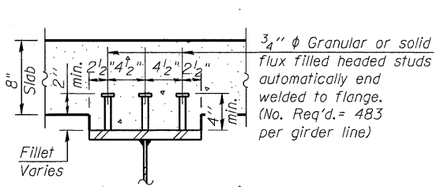


SEGMENT CAMBER AND OFFSET



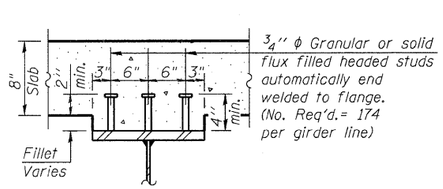
GIRDER ELEVATION 1 thru 8

"NTR" denotes plates to which notch toughness requirements are applicable.
All web plates shall be subject to notch toughness requirements.
The top of the top flange shall not be galvanized. Typical all sections on all girders.



SECTION A-A

14" Flange



SECTION B-B

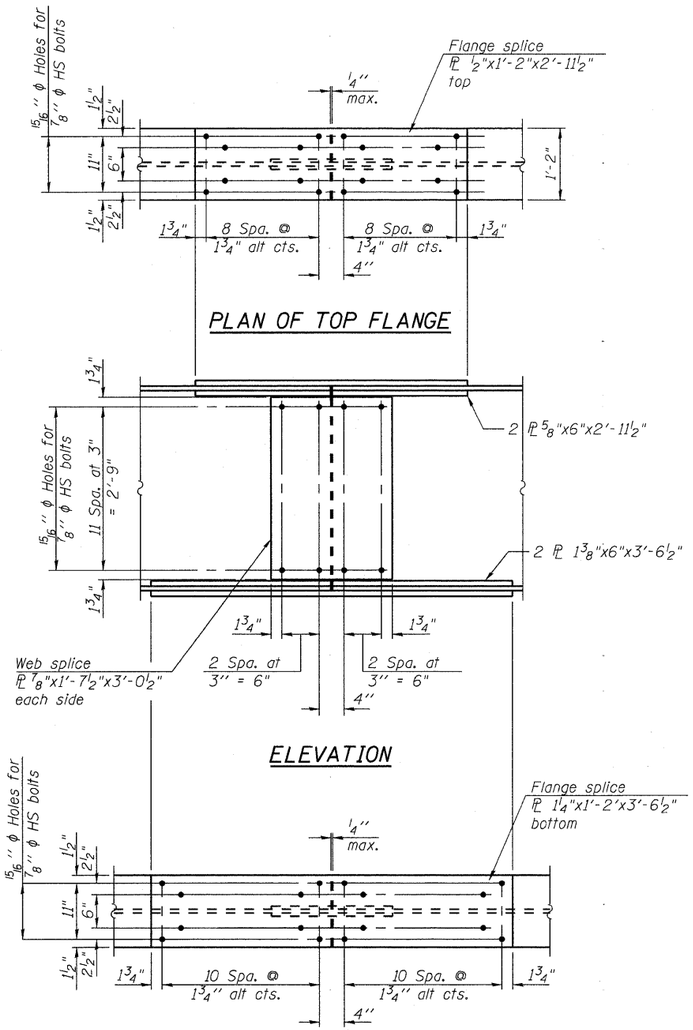
18" Flange

ABNA DESIGN FIRM REG. 184.002117	9901 S. Western Ave. Chicago, IL 60643 Ph. 773-881-4788 F: 773.239.3728	DESIGNED - TBS	REVISED -
		CHECKED - RJL	REVISED -
		DRAWN - JJE	REVISED -
		CHECKED - SEA	REVISED -

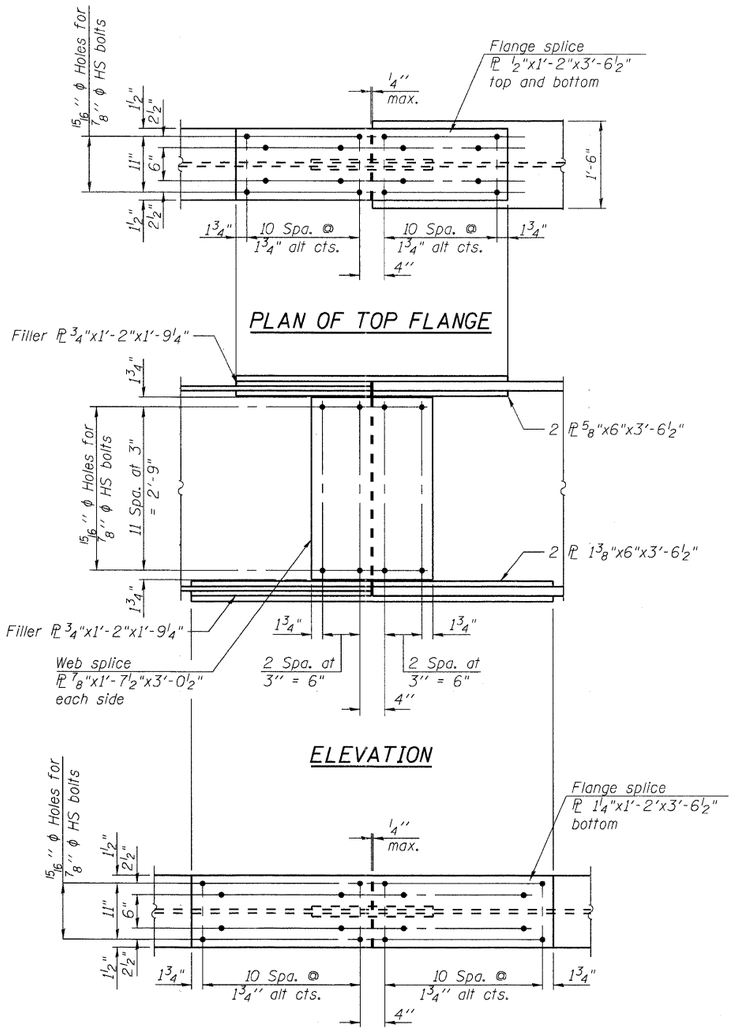
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GIRDER ELEVATION
STRUCTURE NO. 016-1101
SHEET NO. 16 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	59
STA. TO STA.		CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SPLICE DETAIL #1 & #4
(16 Required)



SPLICE DETAIL #2 & #3
(16 Required)

INTERIOR GIRDER MOMENT TABLE				
		0.4 Sp. 2	Pier 2	0.6 Sp. 1
I_s	(in^4)	16032	33250	16032
$I_c(n)$	(in^4)	37357		37357
$I_c(3n)$	(in^4)	28185		28185
$I_c(cr)$	(in^4)		38870	
S_s	(in^3)	729	1462	729
$S_c(n)$	(in^3)	973		973
$S_c(3n)$	(in^3)	897		897
$S_c(cr)$	(in^3)		1542	
DC1	(k/')	1.00	1.00	1.00
M_{DC1}	('k)	591	-1462	533
DC2	(k/')	0.24	0.24	0.24
M_{DC2}	('k)	152	-335	137
DW	(k/')	0.31	0.31	0.31
M_{DW}	('k)	190	-427	173
M_{L+IM}	('k)	1312	-1655	1276
M_u (Strength I)	('k)	3510	-5783	3330
$\phi_f M_n$	('k)	4981	6372	5132
f_s DC1	(ksi)	9.73	-12.00	8.78
f_s DC2	(ksi)	2.03	-2.61	1.84
f_s DW	(ksi)	2.55	-3.32	2.31
f_s 1.3(L+IM)	(ksi)	22.82	-16.74	22.19
f_s (Service II)	(ksi)	37.13	-34.67	35.12
$0.95R_hF_{yf}$	(ksi)	47.50	47.50	47.50
f_s (Total)(Strength I)	(ksi)	49.24	-45.78	46.61
$\phi_f F_n$	(ksi)	50	50	50
V_f	(k)	24.6	39.8	26.3

TOP OF WEB ELEVATIONS							
	℄ Bearing S Abut.	℄ Splice 4	℄ Splice 3	℄ Bearing Pier 2	℄ Splice 2	℄ Splice 1	℄ Bearing N Abut.
Girder 1	655.29	655.73	656.27	656.41	656.55	656.60	656.45
Girder 2	655.39	655.83	656.39	656.54	656.69	656.76	656.62
Girder 3	655.49	655.94	656.52	656.68	656.84	656.93	656.80
Girder 4	655.56	656.01	656.61	656.78	656.95	657.06	656.94
Girder 5	655.50	655.97	656.58	656.76	656.94	657.07	656.95
Girder 6	655.33	655.80	656.44	656.63	656.81	656.96	656.85
Girder 7	655.11	655.60	656.25	656.45	656.65	656.81	656.71
Girder 8	654.90	655.40	656.07	656.28	656.49	656.67	656.57

Note: For fabrication only.

INTERIOR GIRDER REACTION TABLE				
		S. Abut.	Pier 2	N. Abut.
R_{DC1}	(k)	36.8	135.3	35.1
R_{DC2}	(k)	8.6	30.5	8.2
R_{DW}	(k)	10.9	38.9	10.4
R_{L+IM}	(k)	102.9	218.7	101.8
R_{Total}	(k)	159.2	423.4	155.5

Notes:
All splice plates are AASHTO M270
Grade 50 galvanized and shall meet N.T.R.

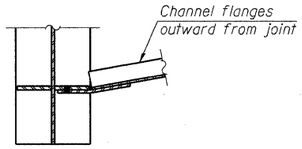
ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED - SEA	REVISED -	
CHECKED - RJL	REVISED -	
DRAWN - JJE / SCS	REVISED -	
CHECKED - SEA	REVISED -	

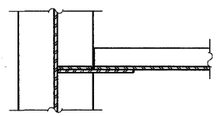
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIELD SPLICE AND STRESS TABLES
STRUCTURE NO. 016-1101
SHEET NO. 17 OF 36 SHEETS

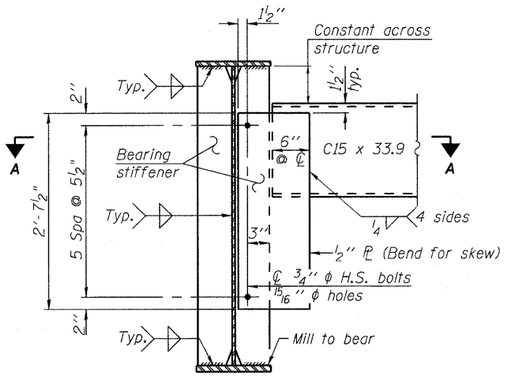
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	60
STA. TO STA.		CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SECTION A-A

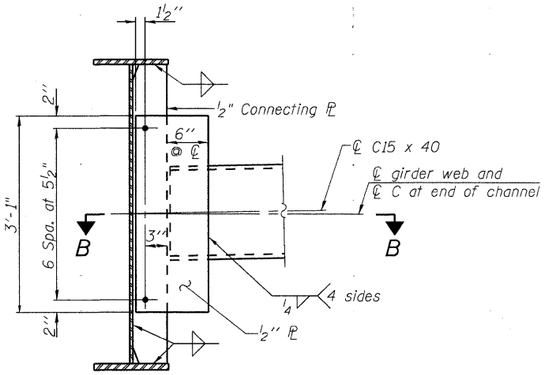


SECTION B_B



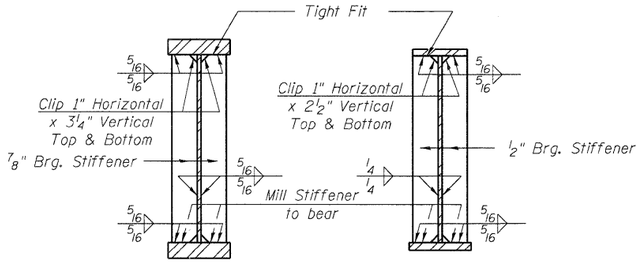
END DIAPHRAGM (D1)

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



INTERIOR DIAPHRAGM (D2)

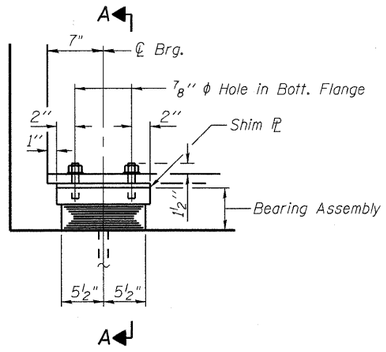
Note:
Two hardened washers required for each set of oversized holes.
*Alternate channels C15 x 50 are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.
The alternate, if utilized, shall be provided at no additional cost to the Department.



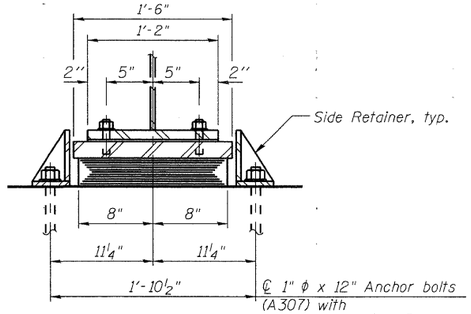
SECTION AT PIER

SECTION AT ABUTMENT

ABNA DESIGN FIRM REG. 184.002117	9901 S. Western Ave. Chicago, IL 60643 Ph. 773-881-4788 F: 773.239.3728	DESIGNED - SEA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DIAPHRAGM DETAILS STRUCTURE NO. 016-1101	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - RJL	REVISED -			90	1515.1-B	COOK	101	61
		DRAWN - JJE / SCS	REVISED -			STA. TO STA.		CONTRACT NO. 60M79		
		CHECKED - SEA	REVISED -		SHEET NO. 18 OF 36 SHEETS	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

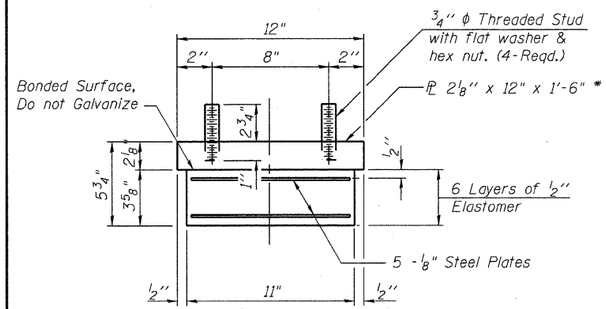


ELEVATION AT ABUT.



SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

Note:
Shim plates shall not be placed under Bearing Assembly.
* AASHTO M270 Grade 50

BEARING SHIM PLATES (SOUTH ABUTMENT)		
GIRDER	THICKNESS	NUMBER REQUIRED
4	⅝"	1

Notes:
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.

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.

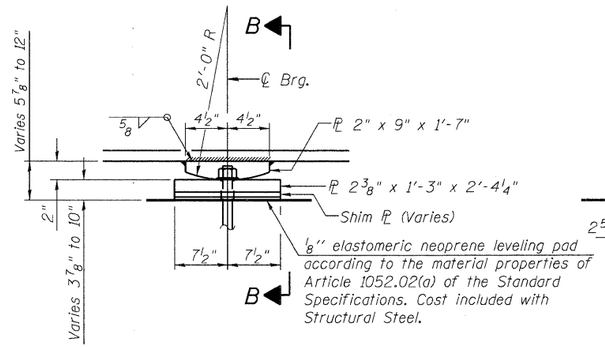
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

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

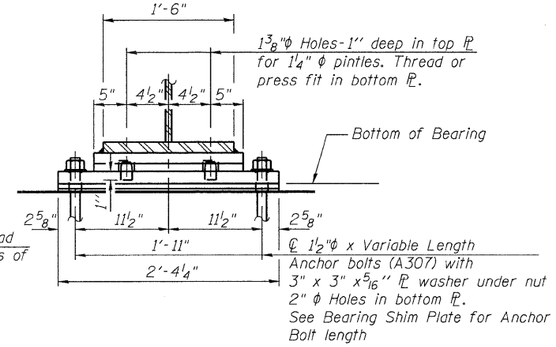
All Bearing Plates, Side Retainers, Anchor Bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.

Two ⅛ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.



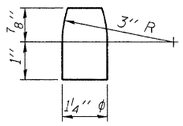
ELEVATION AT PIER



SECTION B-B

Note:
Anchor Bolts shall have a minimum embedment of 15" in 18" drilled holes.

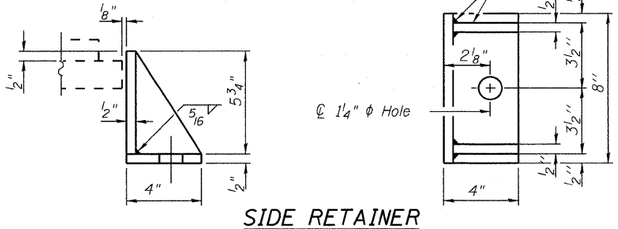
FIXED BEARING



PINTLE

BEARING SHIM PLATES (PIER 2)			
GIRDER	THICKNESS*	NUMBER REQUIRED	ANCHOR BOLT LENGTH
1	3⅛"	1	24"
2	4¾"	1	25"
3	6½"	1	27"
4	7⅝"	1	28"
5	7⅜"	1	28"
6	5¾"	1	26"
7	3¾"	1	24"
8	1½"	1	22"
MISC.	½"	8	

* Shim plate thickness is bottom of bearing elevation minus existing top of pier 2 elevation. Field verify after concrete removal.



SIDE RETAINER

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

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	16
Anchor Bolts, 1"	Each	32
Anchor Bolts, 1½"	Each	16

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

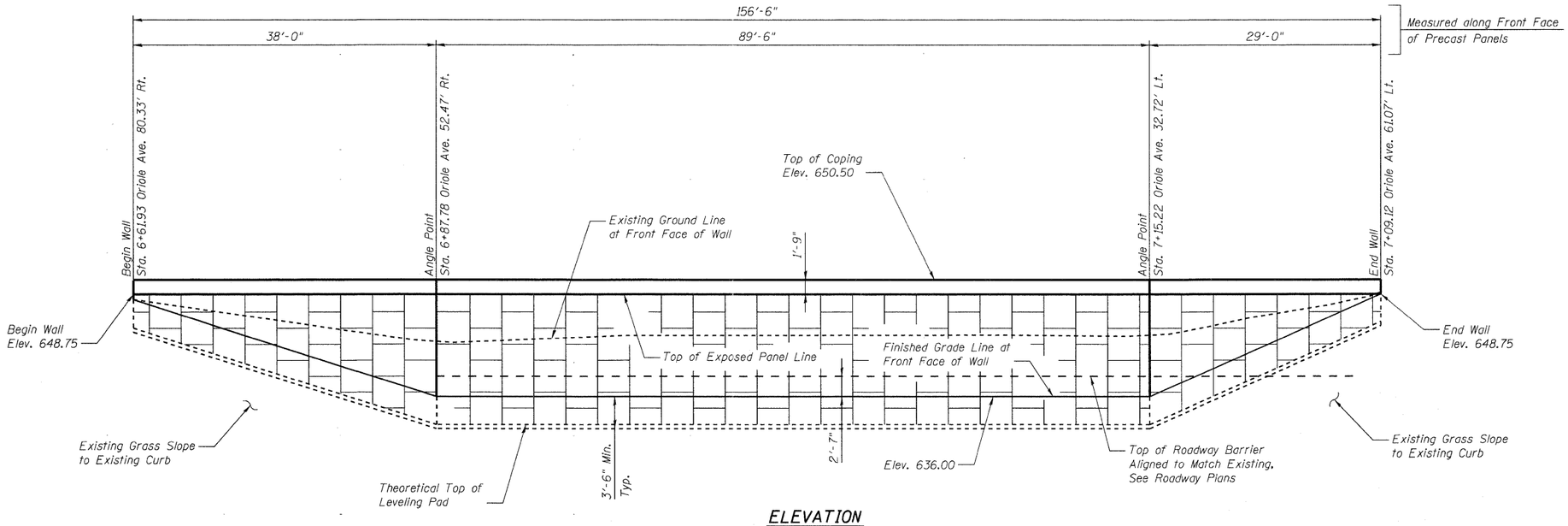
DESIGNED - SEA		REVISED -
CHECKED - RJL		REVISED -
DRAWN - JJE / SCS		REVISED -
CHECKED - SEA		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
STRUCTURE NO.
SHEET NO. 19 OF 36 SHEETS

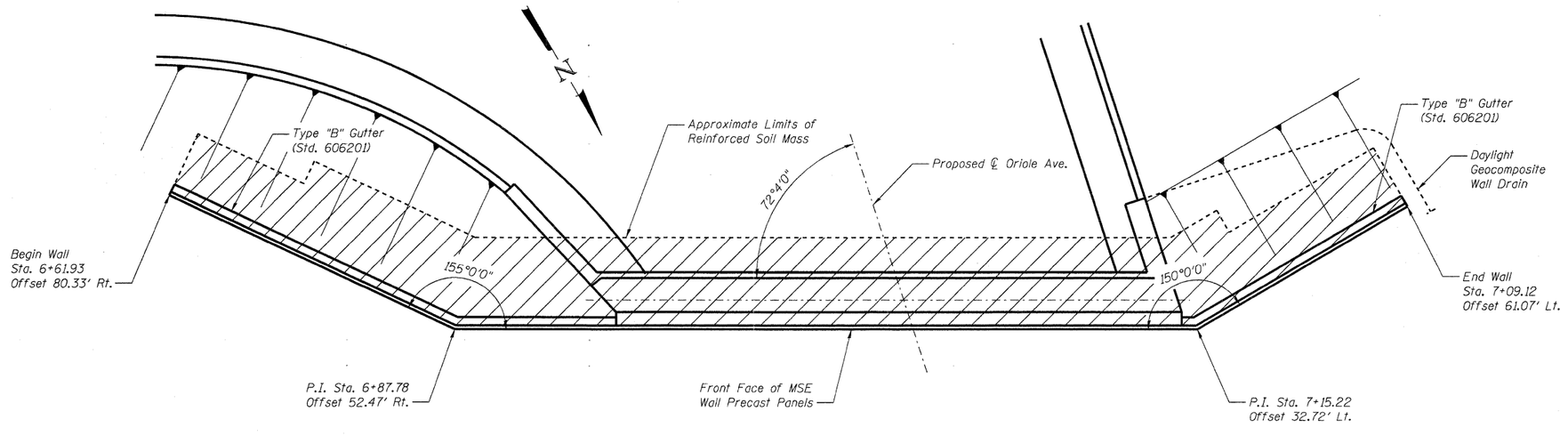
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	62
STA.	TO STA.	CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

J:\2009\246 IDOT PTB 153 Item 21\Cadd\Design\016-1101\W.O. 15 Oriole Steel Plans\016-1101.dgn 12:38:36 PM 12/7/2011



ELEVATION

(Looking at Front Face of Wall)
(Back Station)



PLAN

Note:
Wall offsets are measured from ℄ Oriole Ave.
to the front face of the precast panels.

BILL OF MATERIAL

DESCRIPTION	UNIT	TOTAL
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	2,116
Structure Excavation	Cu. Yds.	1,050

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

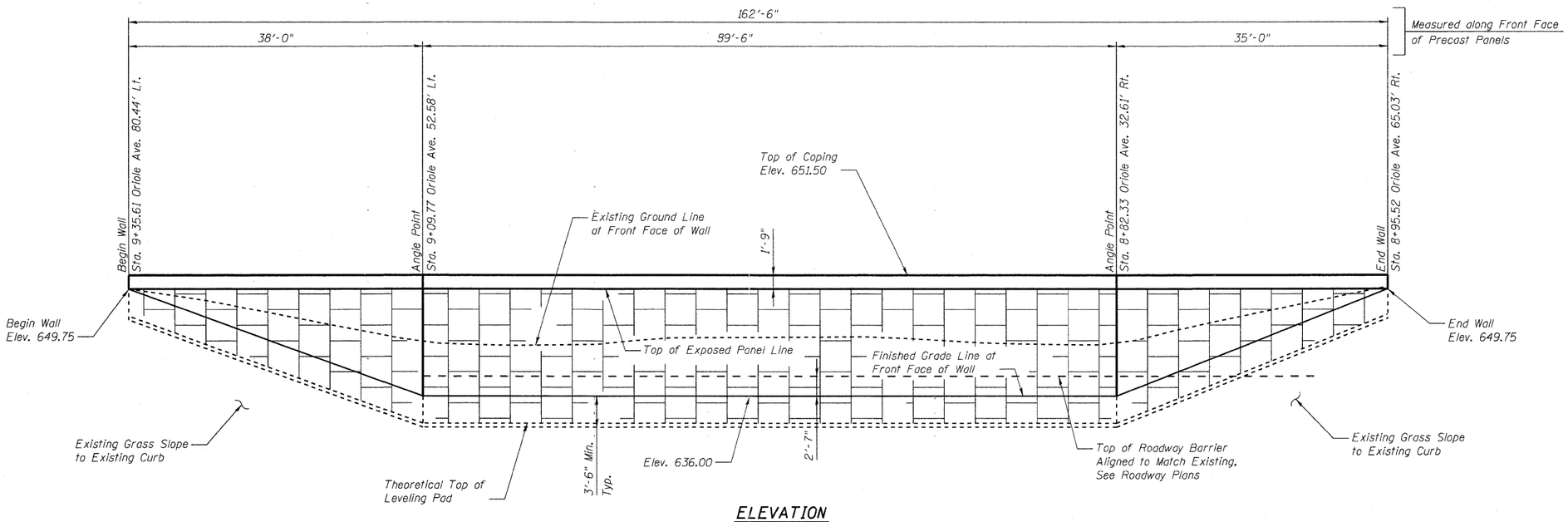
DESIGNED - SEA	REVISED -	
CHECKED - RJL	REVISED -	
DRAWN - SCS	REVISED -	
CHECKED - SEA	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH MSE WALL PLAN AND ELEVATION
STRUCTURE NO. 016-1101
SHEET NO. 20 OF 36 SHEETS

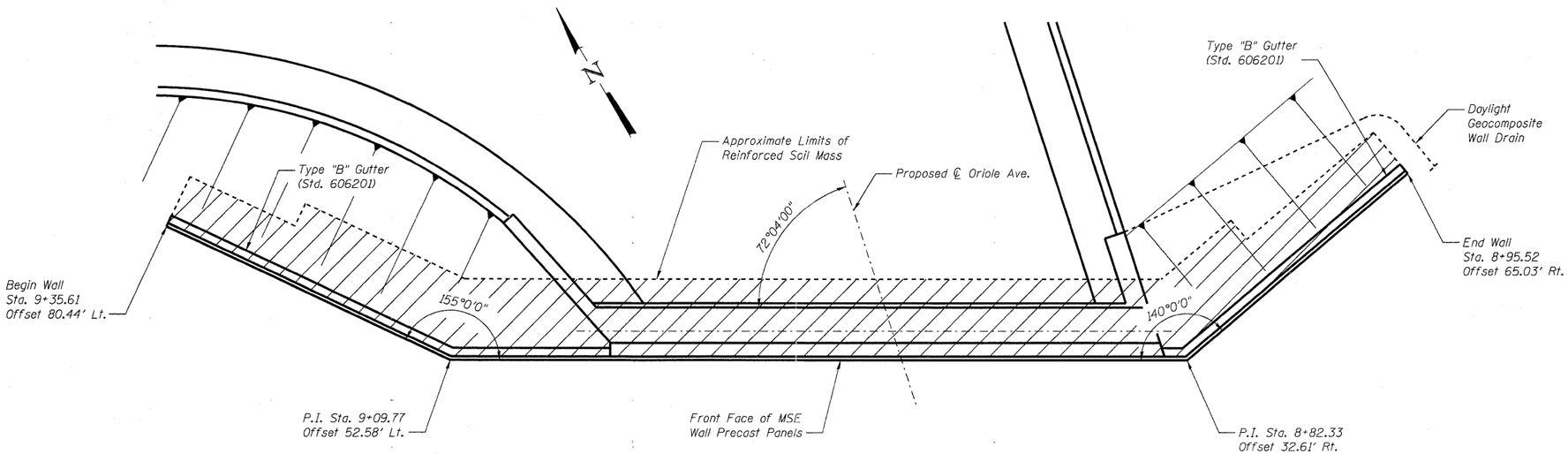
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	63
STA. TO STA.		CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

J:\2009\246 IDOT PTB 153 Item 21\Cadd\Design\016-1101\W.O. 15 Oriole SteelPlans\016-1101.dgn 12:38:37 PM 12/7/2011



ELEVATION

(Looking at Front Face of Wall)
(Ahead Station)



PLAN

Note:
Wall offsets are measured from ℄ Oriole Ave. to the front face of the precast panels.

BILL OF MATERIAL

DESCRIPTION	UNIT	TOTAL
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	2,301
Structure Excavation	Cu. Yds.	1,005

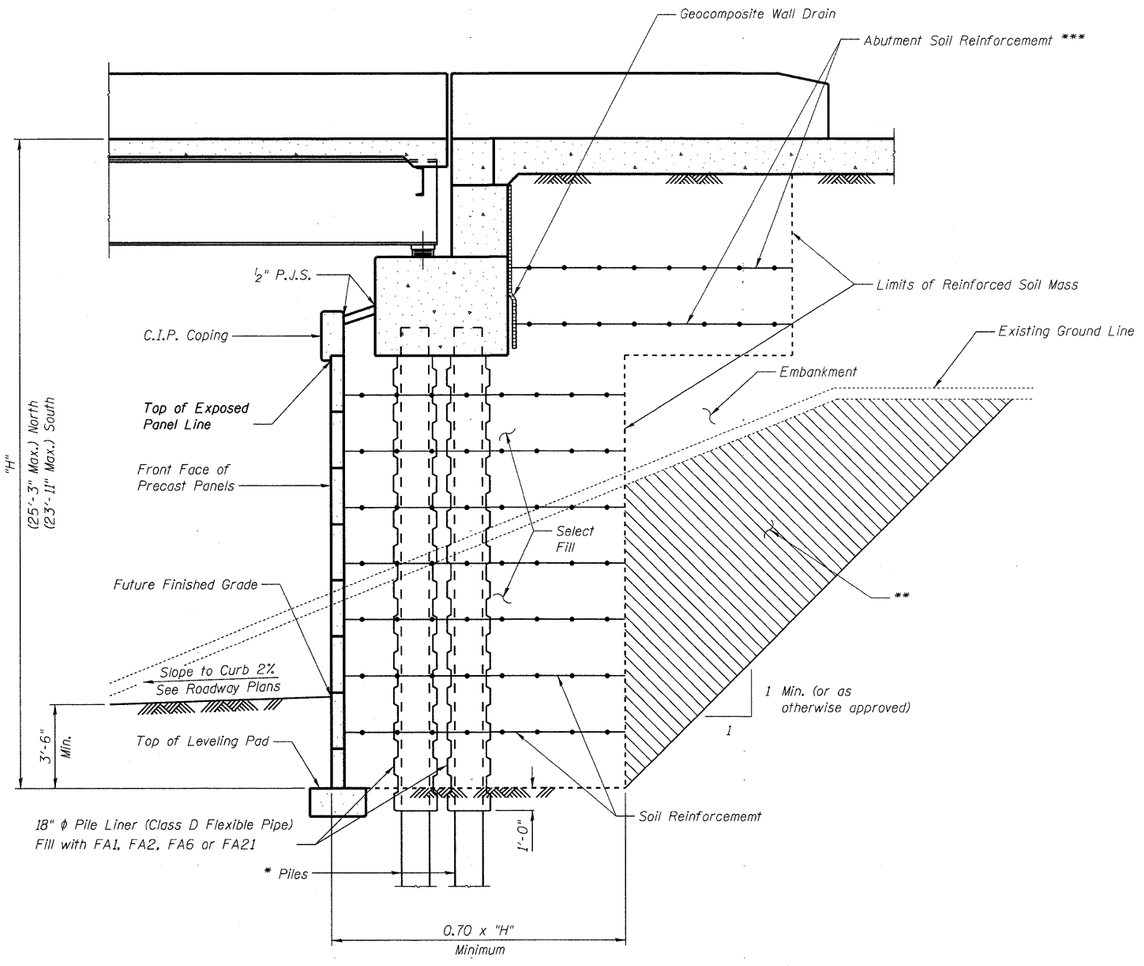
ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED - SEA	REVISED -	
CHECKED - RJL	REVISED -	
DRAWN - SCS	REVISED -	
CHECKED - SEA	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH MSE WALL PLAN AND ELEVATION
STRUCTURE NO. 016-1101
SHEET NO. 21 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	64
STA. TO STA.		CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

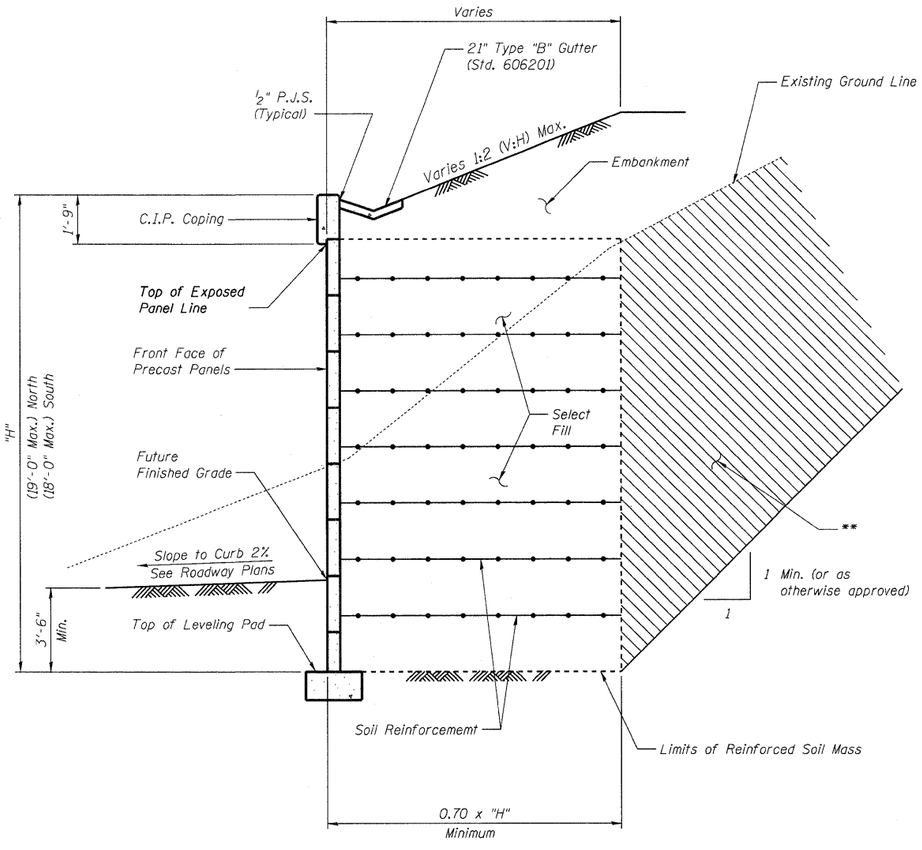


TYPICAL M.S.E. WALL SECTION AT ABUTMENT

* Piles shall be driven prior to placement of the reinforced select fill. An 18" ϕ pile liner shall be placed over the pile and the void between shall be backfilled with fine aggregate from the bottom of the select fill to the base of the abutment. The cost of the pile liner and fine aggregate backfill shall be included with the cost of Furnishing Piles.

** Overexcavation beyond structure excavation. This area not measured for payment. Backfill overexcavation with same material used for select fill used in MSE wall.

*** The MSE Wall Supplier shall design the abutment soil reinforcement to resist a horizontal service force of 2.4 kips/foot of abutment.



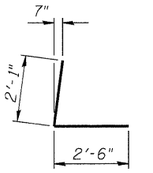
TYPICAL M.S.E. WALL SECTION

ABNA DESIGN FIRM REG. 184.002117	9901 S. Western Ave. Chicago, IL 60643 Ph. 773-881-4788 F: 773.239.3728	DESIGNED - SEA CHECKED - RJL DRAWN - SCS CHECKED - SEA	REVISED - REVISED - REVISED - REVISED -

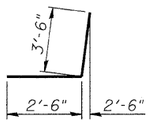
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MSE WALL TYPICAL SECTIONS
STRUCTURE NO. 016-1101
SHEET NO. 22 OF 36 SHEETS

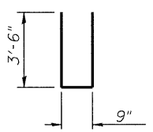
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	65
STA.	TO STA.	CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



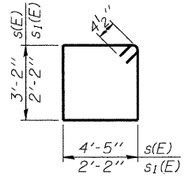
BAR h_1(E)



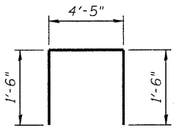
BAR h_2(E)



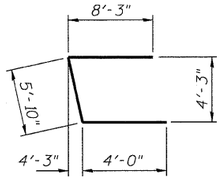
BAR n(E)



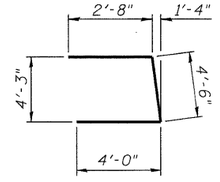
BARS s(E) & s_1(E)



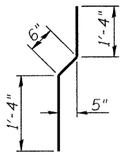
BAR s_2(E)



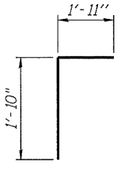
BAR u(E)



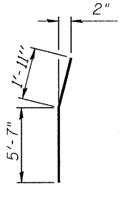
BAR u_1(E)



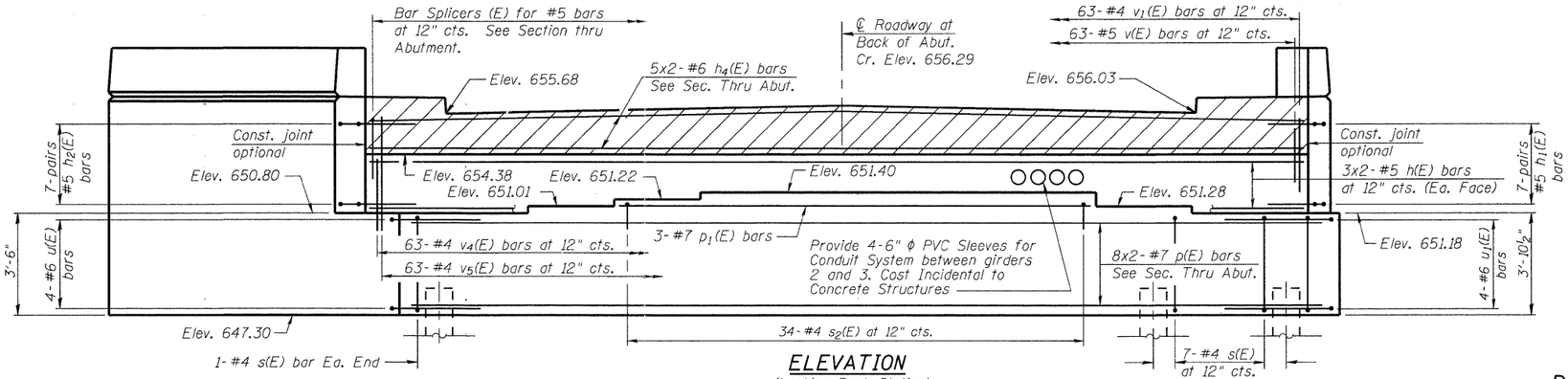
BAR v_1(E)



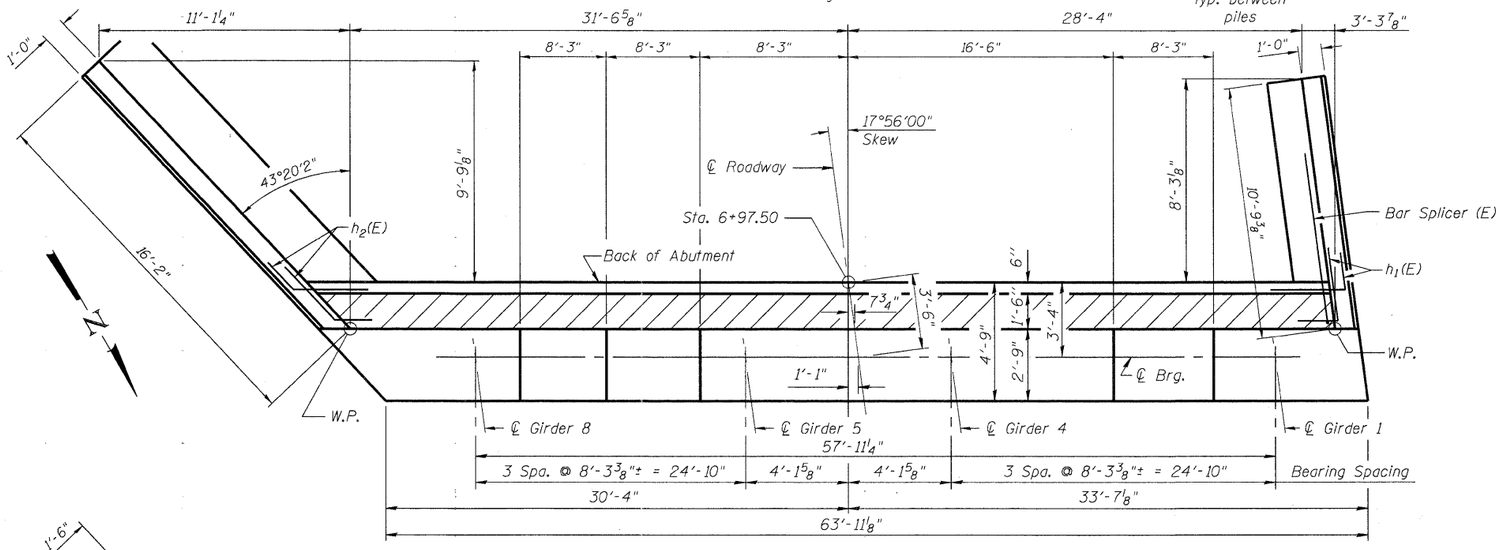
BAR v(E)



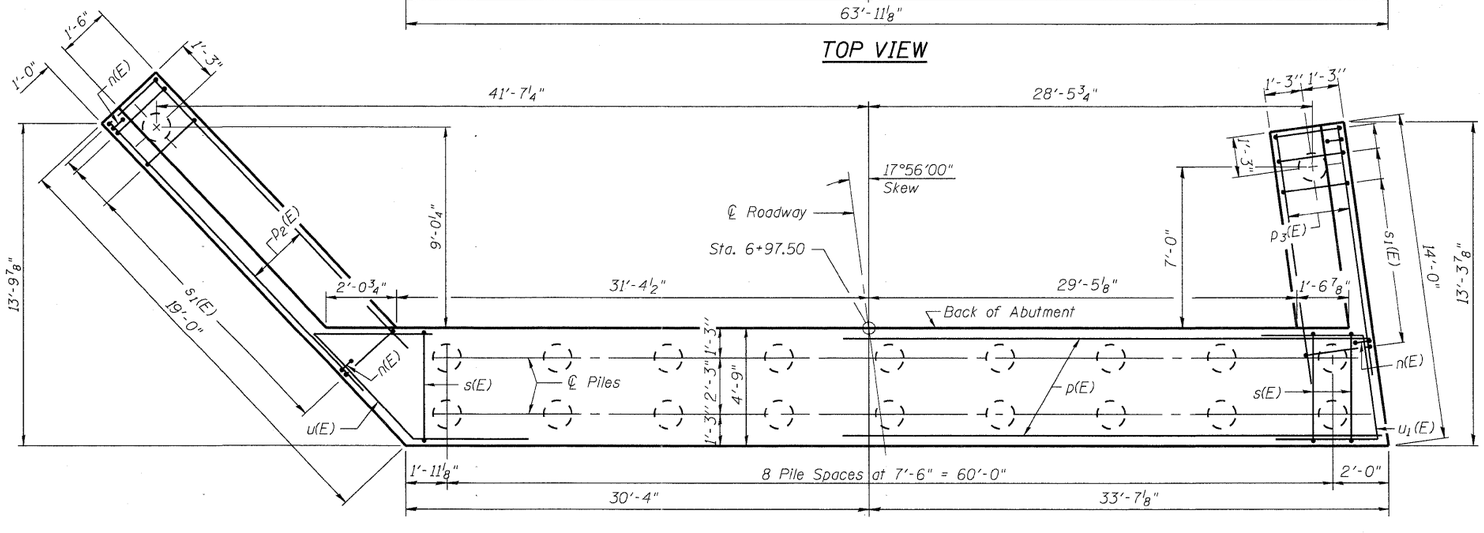
BAR v_2(E)



ELEVATION
(Looking Back Station)



TOP VIEW



PLAN-PILE CAP

ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	12	#5	33'-2"	
h_1(E)	14	#5	4'-7"	
h_2(E)	14	#5	6'-0"	
h_3(E)	22	#4	15'-10"	
h_4(E)	10	#6	33'-6"	
h_5(E)	22	#4	10'-5"	
n(E)	29	#6	7'-9"	
p(E)	16	#7	36'-10"	
p_1(E)	3	#7	32'-8"	
p_2(E)	6	#7	18'-6"	
p_3(E)	6	#7	13'-6"	
s(E)	58	#4	15'-11"	
s_1(E)	29	#4	9'-5"	
s_2(E)	34	#4	7'-5"	
u(E)	4	#6	18'-1"	
u_1(E)	4	#6	11'-2"	
v(E)	63	#5	3'-9"	
v_1(E)	63	#4	3'-2"	
v_2(E)	29	#6	7'-6"	
v_3(E)	29	#6	7'-6"	
v_4(E)	63	#4	5'-1"	
v_5(E)	63	#4	7'-0"	
Concrete Structures		Cu. Yd.	72.3	
Reinforcement Bars, Epoxy Coated		Pound	6.280	
Furnishing Metal Shell Piles, 12"x0.179"		Foot	1.026	
Driving Piles		Foot	1.026	
Test Pile,		Each	1	
Concrete Sealer		Sq. Ft.	685	

For details of Bar Splicers, see Sheet No. 31.
For details of piles see Sheet No. 30.

PILE DATA

Type: Metal Shell Piles 12" ϕ x .0179"
Nominal Required Bearing: 218 kips
Factored Resistance Available: 120 kips
Est. Length: 54'
No. Production Piles: 19
No. Test Piles: 1

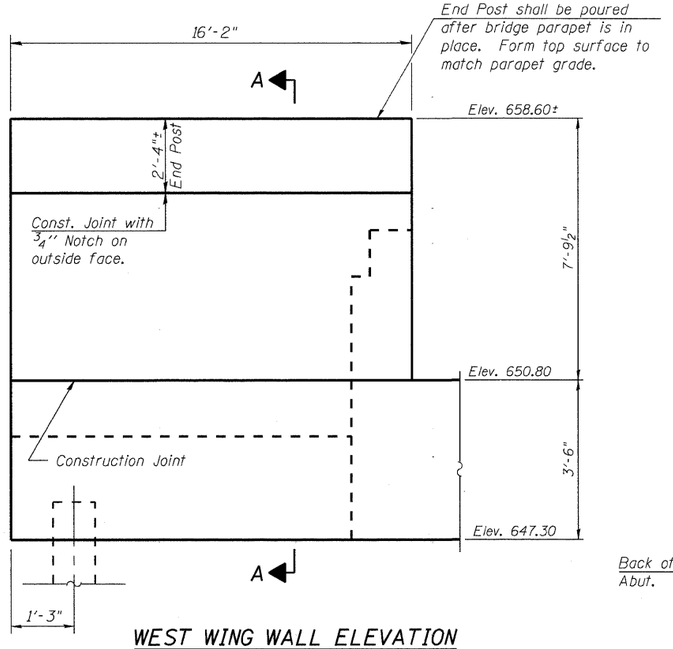
ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED - SEA	REVISED -	
CHECKED - RJL	REVISED -	
DRAWN - SCS	REVISED -	
CHECKED - SEA	REVISED -	

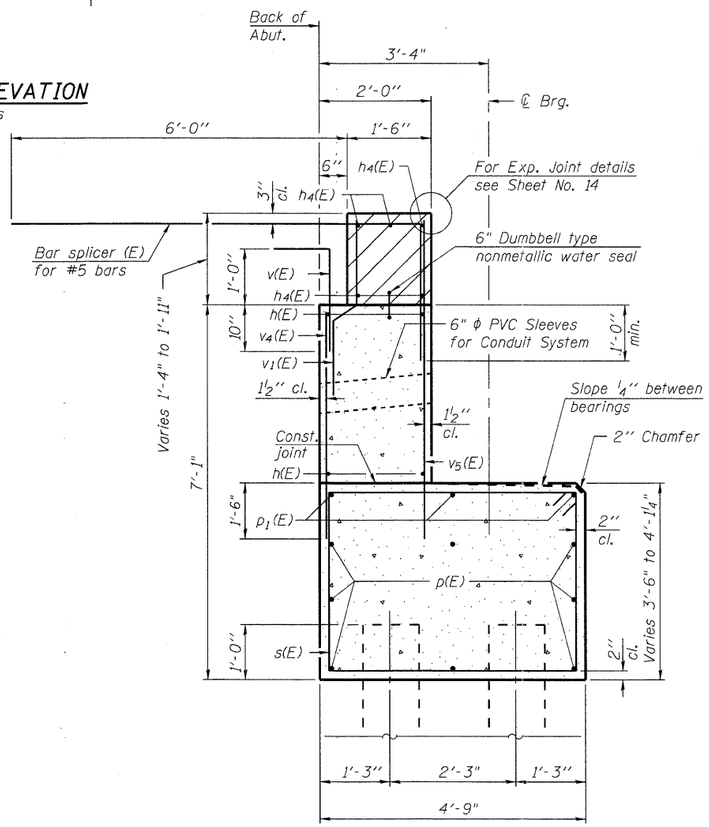
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT PLAN AND ELEVATION
STRUCTURE NO. 016-1101
SHEET NO. 23 OF 36 SHEETS

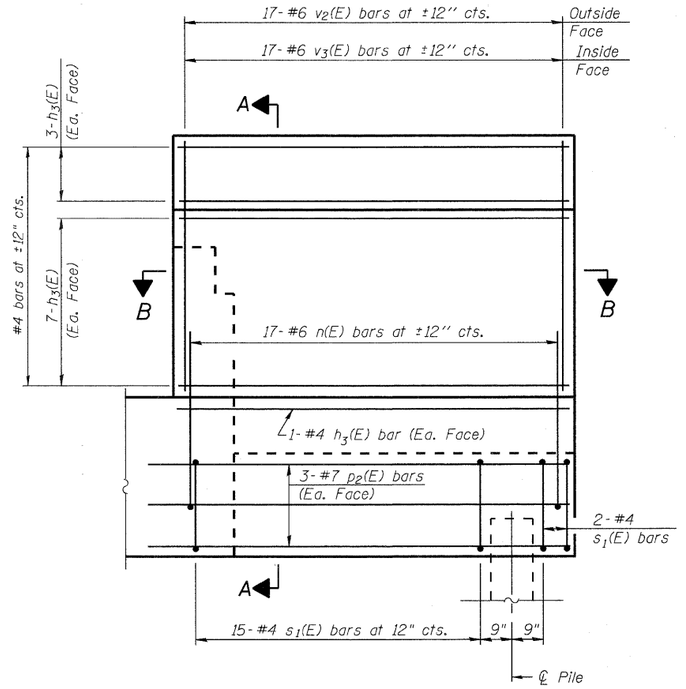
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	66
STA. TO STA.		CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



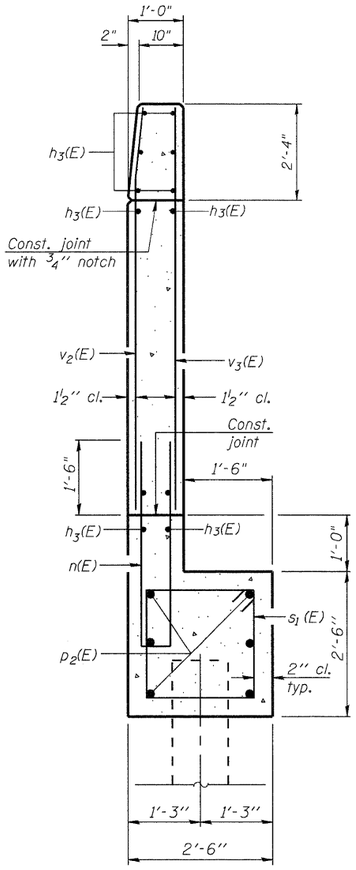
WEST WING WALL ELEVATION
Showing Dimensions



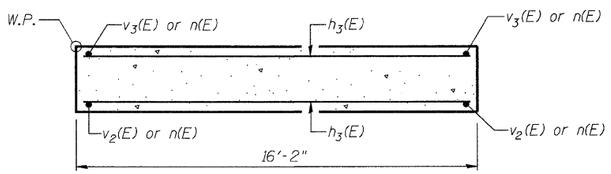
SECTION THRU ABUTMENT



WEST WING WALL ELEVATION
Showing Reinforcement



SECTION A-A



SECTION B-B

Notes:
Hatched area to be poured after superstructure false work has been removed, see Sheet No. 7. Quantity of concrete included with Concrete Superstructure.
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
Quantity of concrete in end post included with Concrete Superstructure on Sheet No. 11.

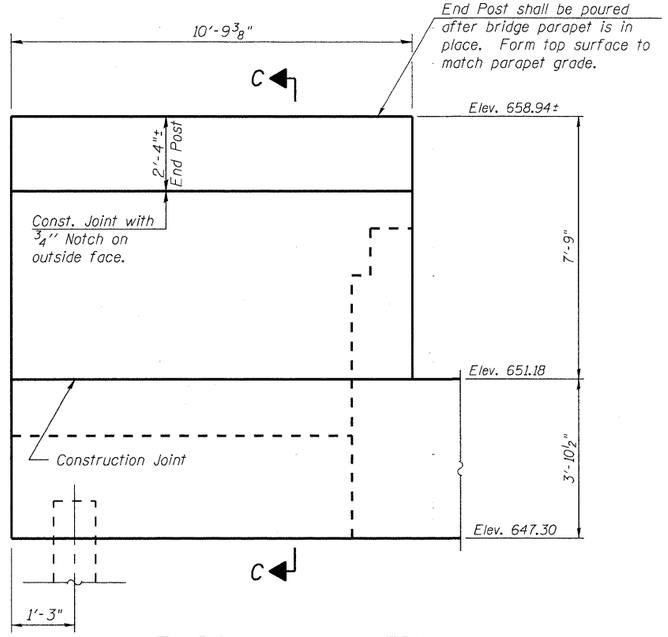
ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED - SEA	REVISED -	
CHECKED - RJL	REVISED -	
DRAWN - SCS	REVISED -	
CHECKED - SEA	REVISED -	

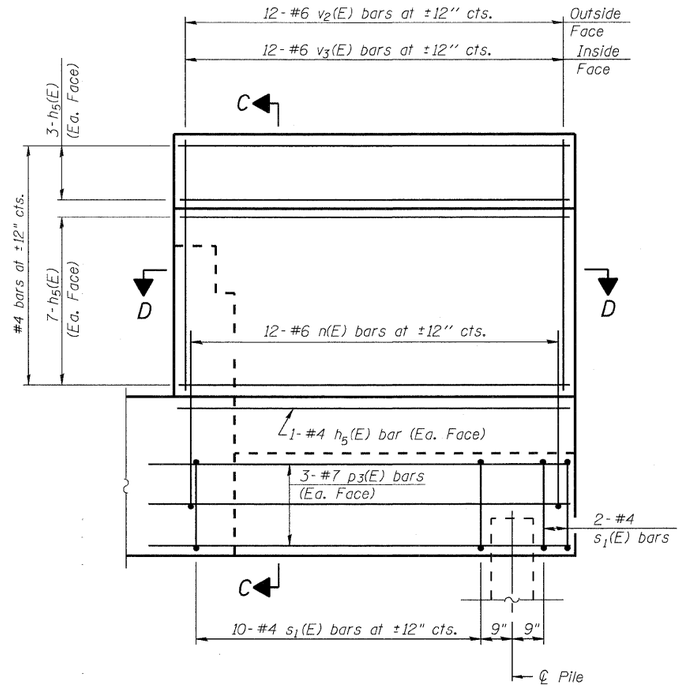
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT DETAILS
STRUCTURE NO. 016-1101
SHEET NO. 24 OF 36 SHEETS

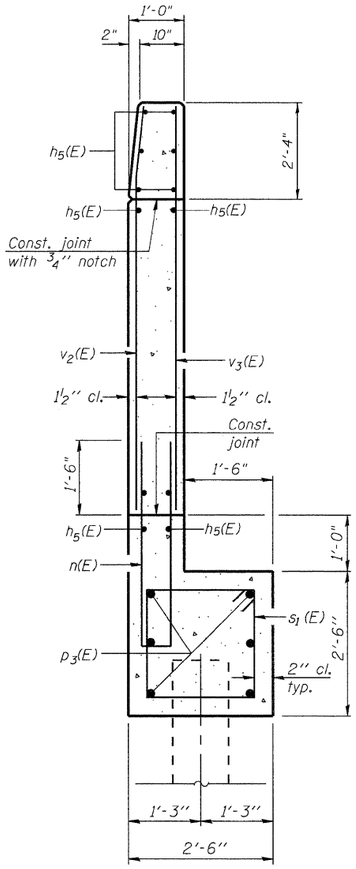
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	67
STA. TO STA.		CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



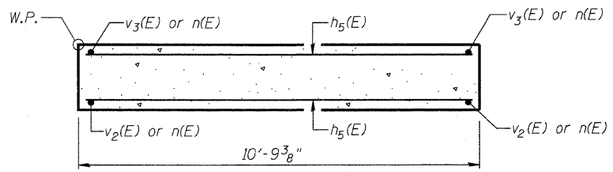
EAST WING WALL ELEVATION
Showing Dimensions



EAST WING WALL ELEVATION
Showing Reinforcement



SECTION C-C



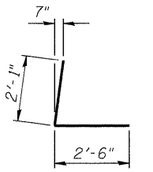
SECTION D-D

ABNA DESIGN FIRM REG. 184.002117	9901 S. Western Ave. Chicago, IL 60643 Ph. 773-881-4788 F: 773.239.3728	DESIGNED - SEA	REVISED -
		CHECKED - RJL	REVISED -
		DRAWN - SCS	REVISED -
		CHECKED - SEA	REVISED -

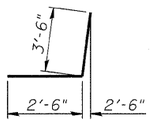
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT DETAILS
STRUCTURE NO. 016-1101
SHEET NO. 25 OF 36 SHEETS

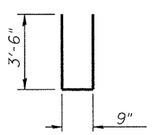
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	68
STA.	TO STA.	CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



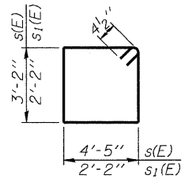
BAR $h_1(E)$



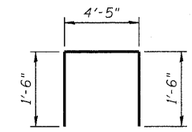
BAR $h_2(E)$



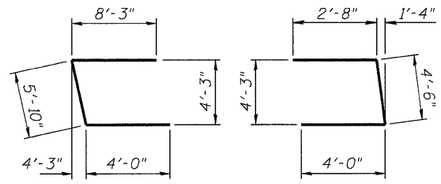
BAR n(E)



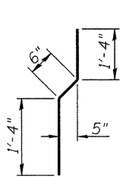
BARS $s(E)$ & $s_1(E)$



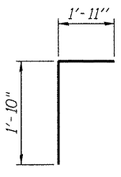
BAR $s_2(E)$



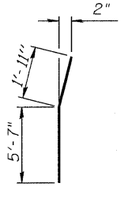
BAR $u(E)$ BAR $u_1(E)$



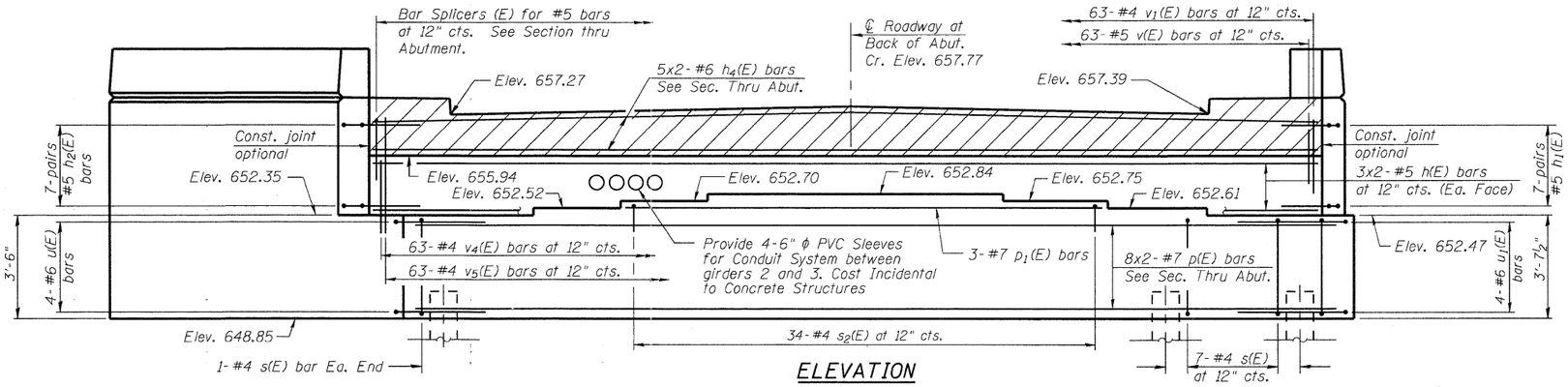
BAR $v_1(E)$



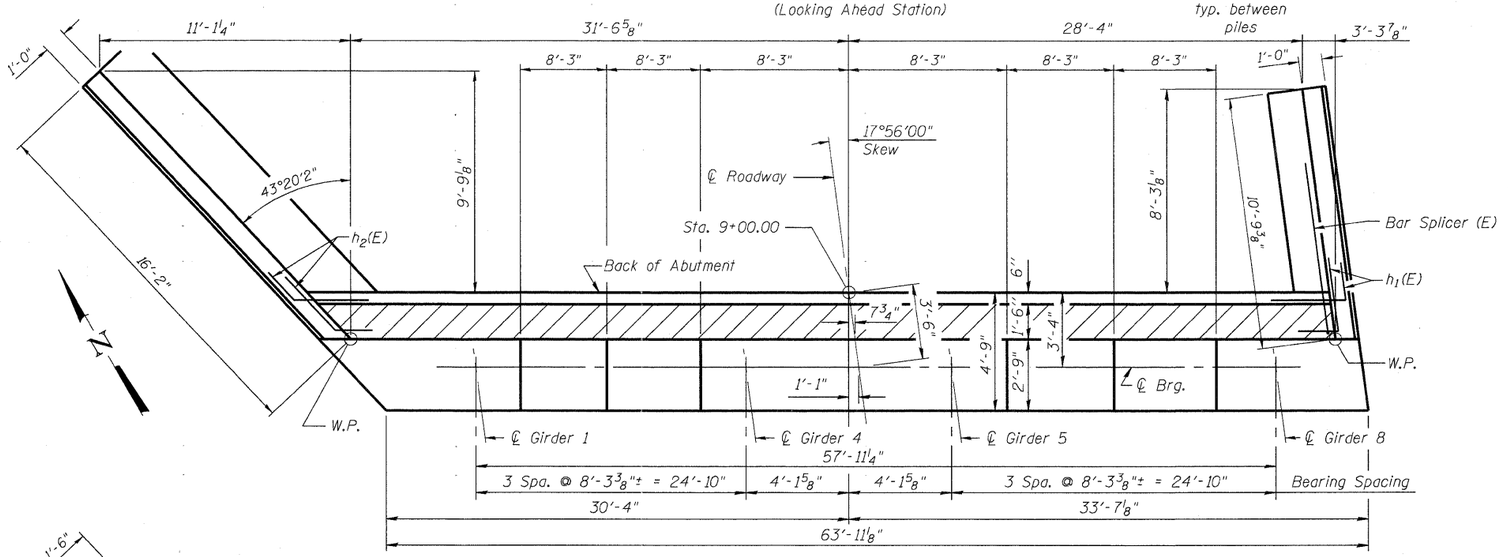
BAR $v(E)$



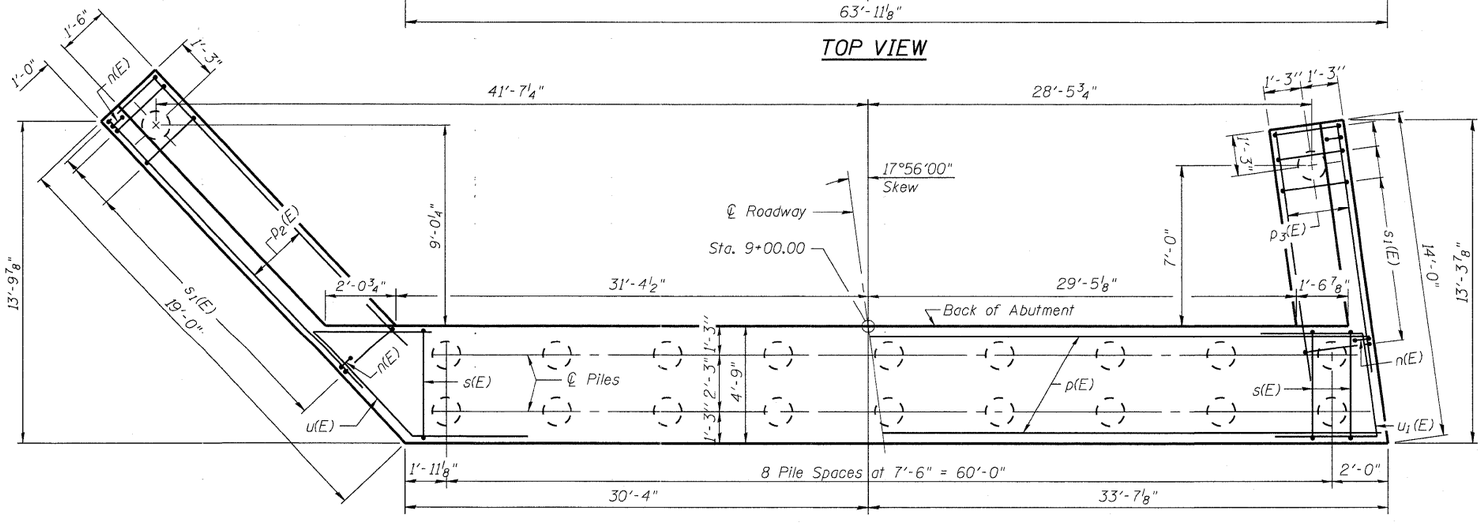
BAR $v_3(E)$



ELEVATION
(Looking Ahead Station)



TOP VIEW



PLAN-PILE CAP

ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	12	#5	33'-2"	
$h_1(E)$	14	#5	4'-7"	
$h_2(E)$	14	#5	6'-0"	
$h_3(E)$	22	#4	15'-10"	
$h_4(E)$	10	#6	33'-6"	
$h_5(E)$	22	#4	10'-5"	
n(E)	29	#6	7'-9"	
p(E)	16	#7	36'-10"	
$p_1(E)$	3	#7	32'-8"	
$p_2(E)$	6	#7	18'-6"	
$p_3(E)$	6	#7	13'-6"	
s(E)	58	#4	15'-11"	
$s_1(E)$	29	#4	9'-5"	
$s_2(E)$	34	#4	7'-5"	
u(E)	4	#6	18'-1"	
$u_1(E)$	4	#6	11'-2"	
v(E)	63	#5	3'-9"	
$v_1(E)$	63	#4	3'-2"	
$v_2(E)$	29	#6	7'-6"	
$v_3(E)$	29	#6	7'-6"	
$v_4(E)$	63	#4	5'-1"	
$v_5(E)$	63	#4	7'-0"	
Concrete Structures		Cu. Yd.	73.2	
Reinforcement Bars, Epoxy Coated		Pound	6,280	
Furnishing Metal Shell Piles, 12"x0.179"		Foot	1,045	
Driving Piles		Foot	1,045	
Test Pile,		Each	1	
Concrete Sealer		Sq. Ft.	685	

For details of Bar Splicers, see Sheet No. 31.
For details of piles see Sheet No. 30.

PILE DATA

Type: Metal Shell Piles 12" ϕ x .0179"
Nominal Required Bearing: 218 kips
Factored Resistance Available: 120 kips
Est. Length: 55'
No. Production Piles: 19
No. Test Piles: 1

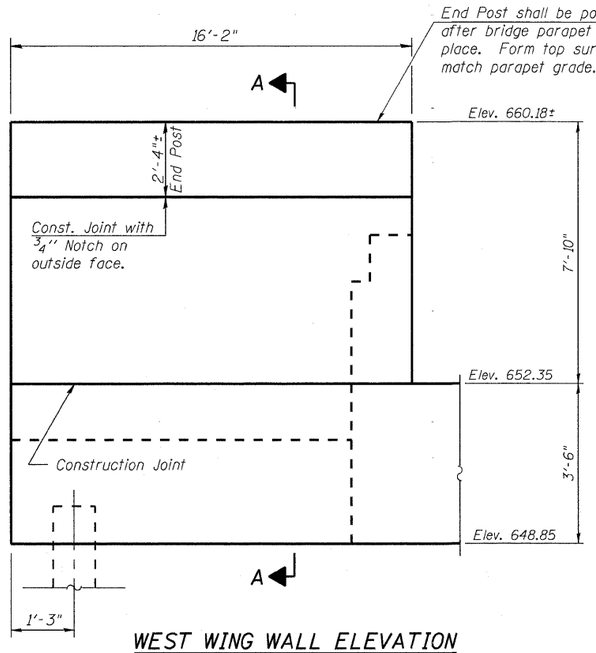
ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED - SEA	REVISED -	
CHECKED - RJL	REVISED -	
DRAWN - SCS	REVISED -	
CHECKED - SEA	REVISED -	

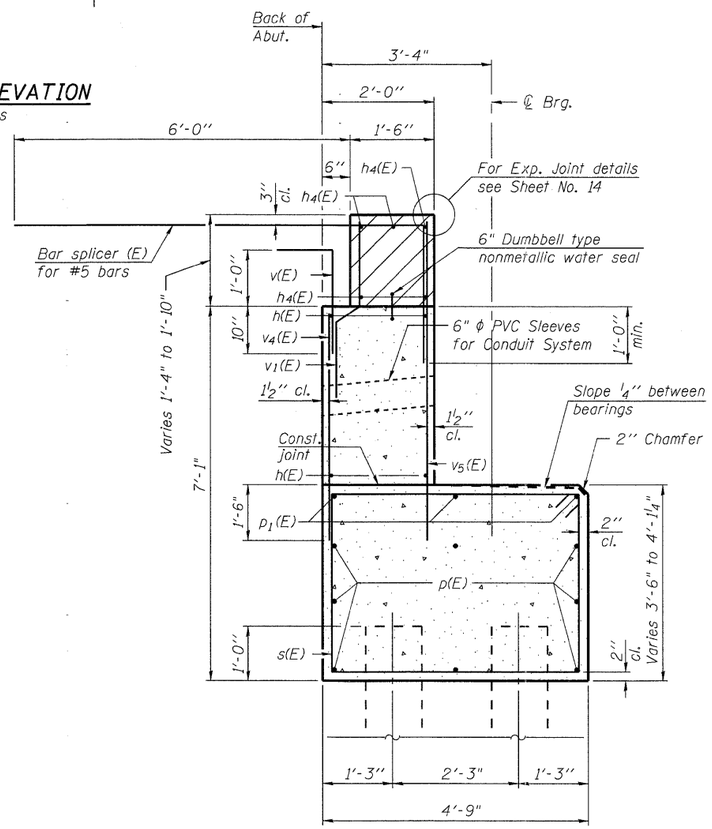
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT PLAN AND ELEVATION
STRUCTURE NO. 016-1101
SHEET NO. 26 OF 36 SHEETS

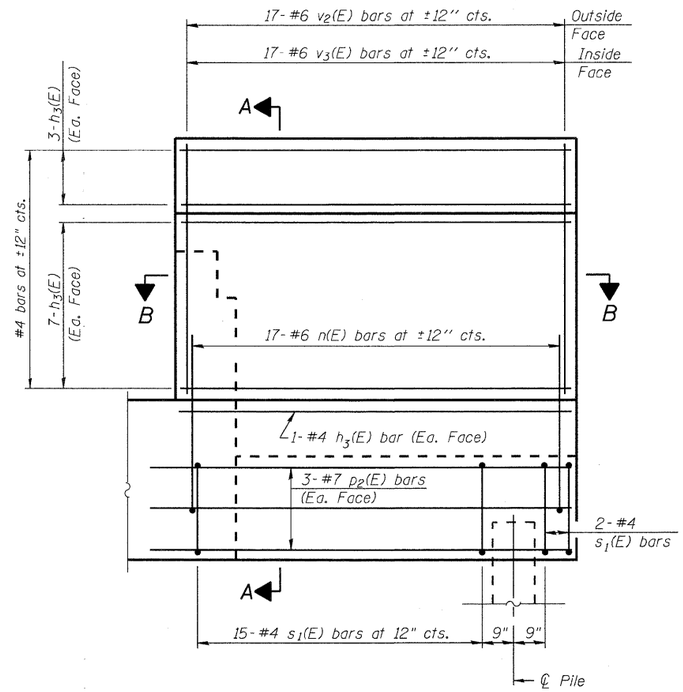
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	69
STA. TO STA.		CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



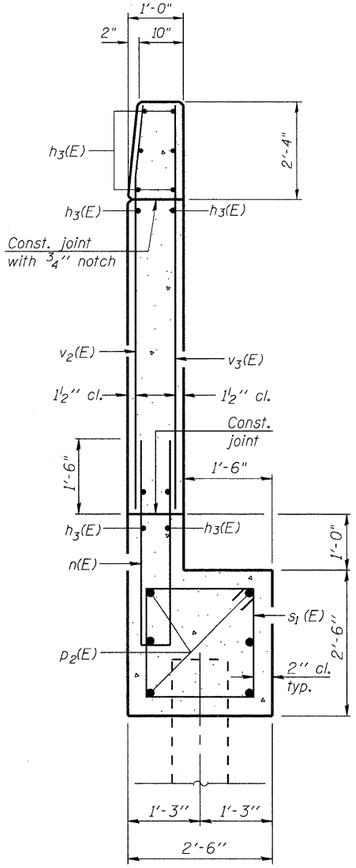
WEST WING WALL ELEVATION
Showing Dimensions



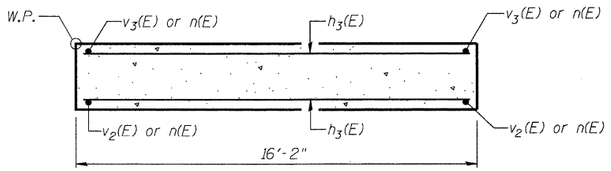
SECTION THRU ABUTMENT



WEST WING WALL ELEVATION
Showing Reinforcement



SECTION A-A



SECTION B-B

Notes:
Hatched area to be poured after superstructure false work has been removed, see Sheet No. 7. Quantity of concrete included with Concrete Superstructure.
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
Quantity of concrete in end post included with Concrete Superstructure on Sheet No. 11.

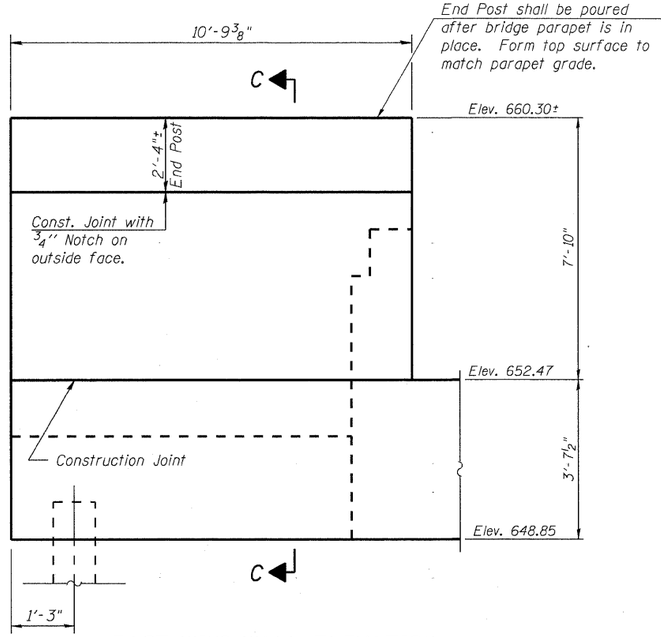
ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	SEA	REVISED	-
CHECKED	RJL	REVISED	-
DRAWN	SCS	REVISED	-
CHECKED	SEA	REVISED	-

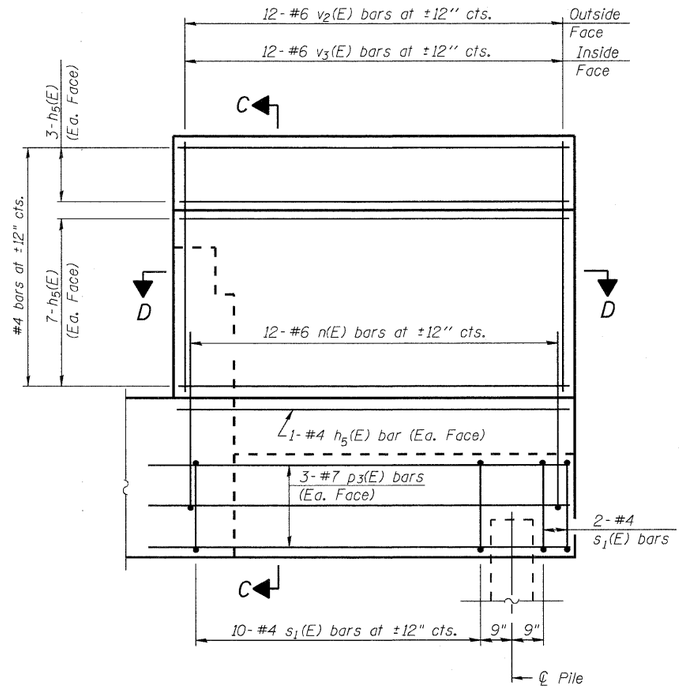
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT DETAILS
STRUCTURE NO. 016-1101
SHEET NO. 27 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	70
STA. TO STA.		CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

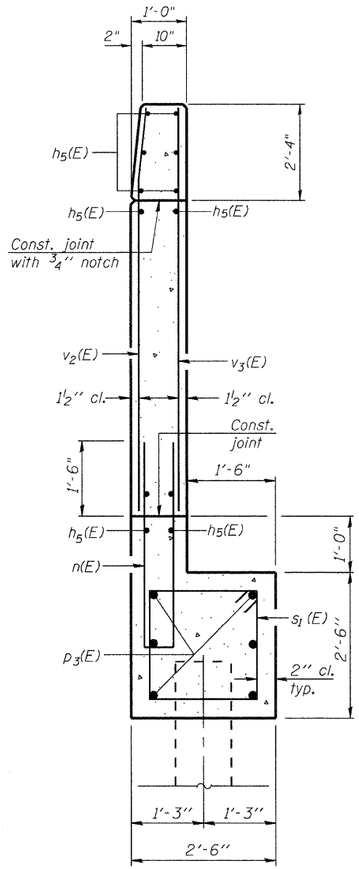


EAST WING WALL ELEVATION
Showing Dimensions



EAST WING WALL ELEVATION
Showing Reinforcement

SECTION D-D



SECTION C-C

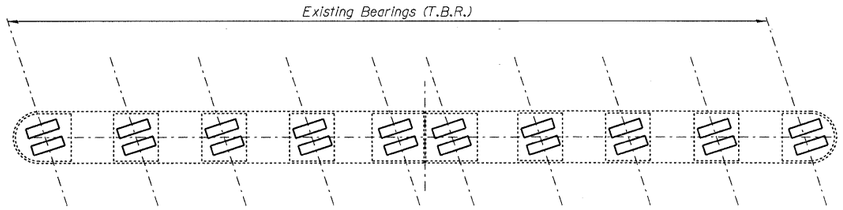
ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED - SEA	REVISED -	
CHECKED - RJL	REVISED -	
DRAWN - SCS	REVISED -	
CHECKED - SEA	REVISED -	

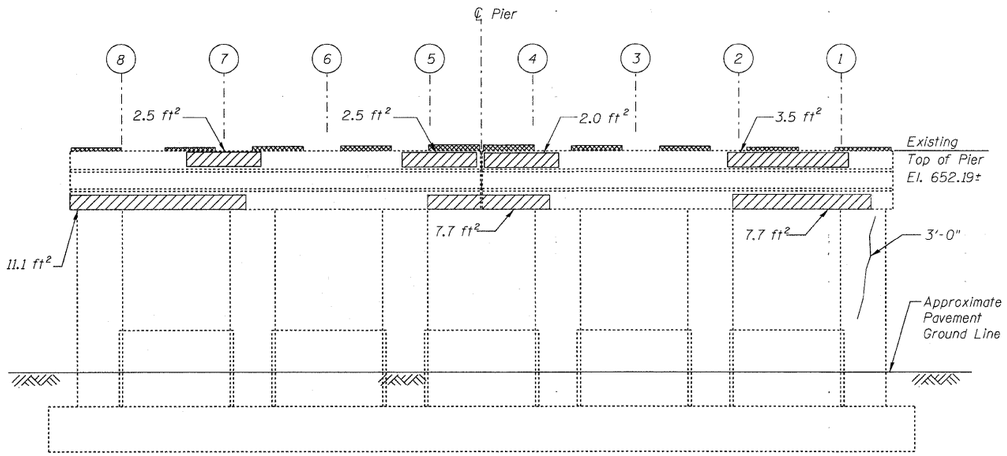
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT DETAILS
STRUCTURE NO. 016-1101
SHEET NO. 28 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	71
STA.	TO STA.	CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

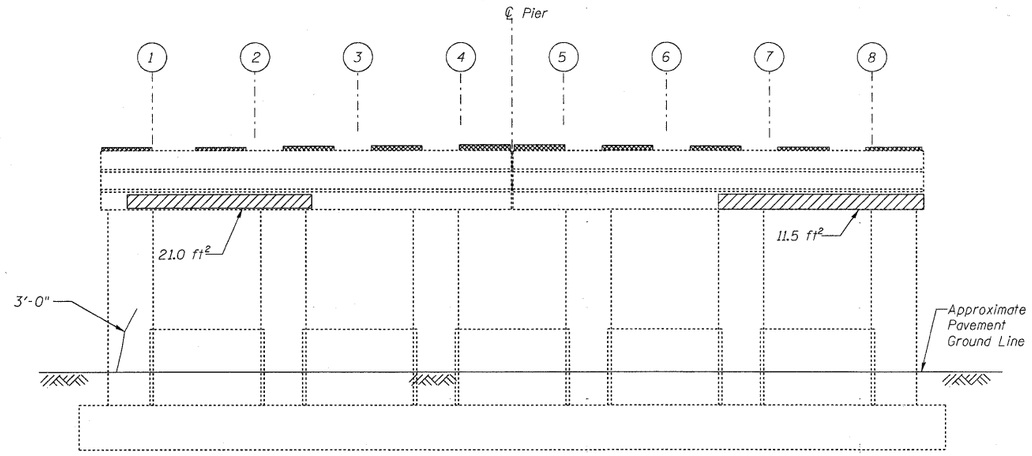


EXISTING PLAN PIER 2



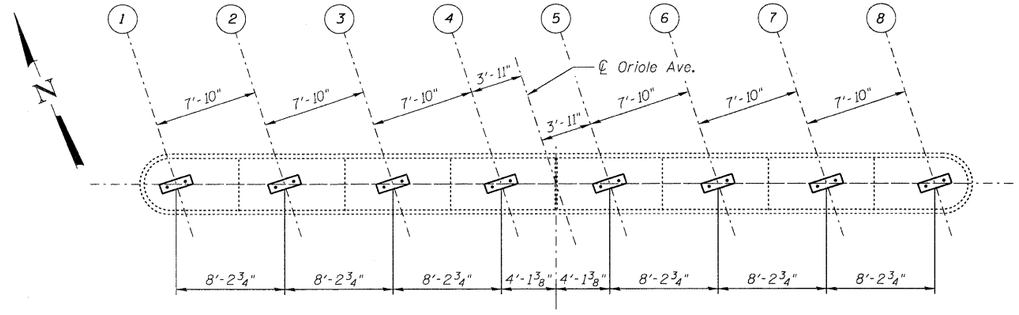
NORTH FACE PIER 2

Looking South

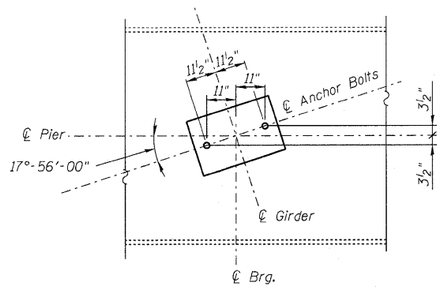


SOUTH FACE PIER 2

Looking North



NEW PLAN PIER 2



TYPICAL BEARING AND ANCHOR BOLT DETAIL

BOTTOM OF BEARING PAD ELEVATIONS *	
Girder	Elevation
Girder 1	652.45
Girder 2	652.59
Girder 3	652.73
Girder 4	652.83
Girder 5	652.81
Girder 6	652.67
Girder 7	652.50
Girder 8	652.32

* See bearing shim plates. Field verify and adjust as required

LEGEND

- Concrete Removal Areas
- Concrete Repair ≤ 5"
- Epoxy Crack Injection

BILL OF MATERIAL PIER

ITEM	Unit	Quantity
Concrete Removal	Cu. Yds.	2.5
Concrete Repair ≤ 5"	Sq. Ft.	70
Epoxy Crack Injection	Feet	6

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	- TBS / SEA	REVISED	-
CHECKED	- RJL	REVISED	-
DRAWN	- JJE / SCS	REVISED	-
CHECKED	- SEA	REVISED	-

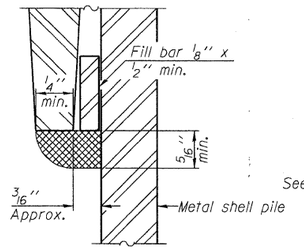
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 2 REPAIR
STRUCTURE NO. 016-1101
SHEET NO. 29 OF 36 SHEETS

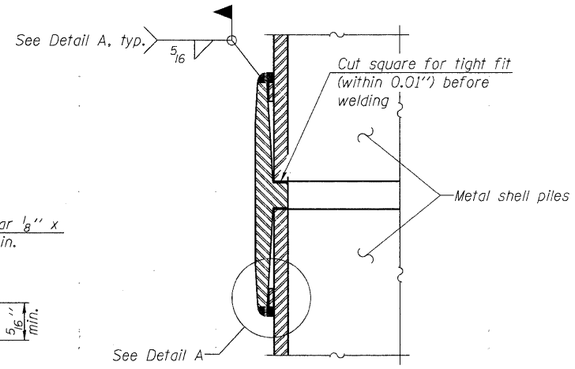
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	72
STA.	TO STA.	CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume ($yd.^3/ft.$)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361

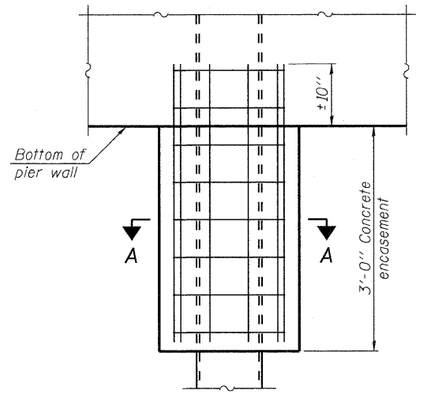


DETAIL A

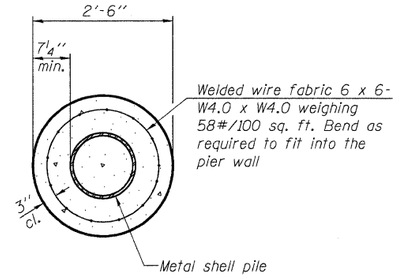


Notes:
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.

WELDED COMMERCIAL SPLICE



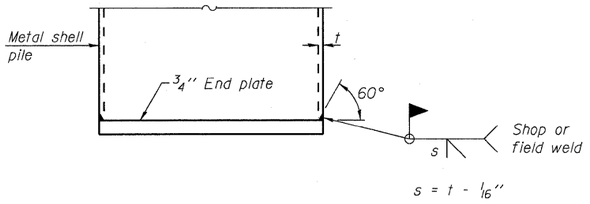
ELEVATION



SECTION A-A

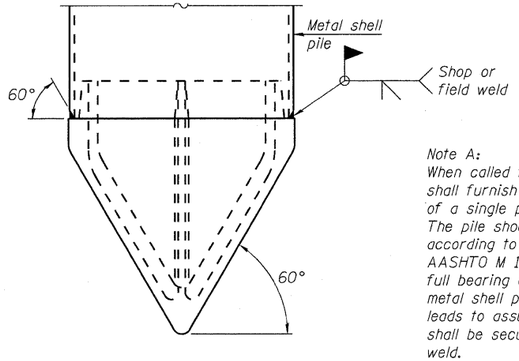
Note:
Forms for encasement may be omitted when soil conditions permit.

CONCRETE ENCASEMENT AT PIERS



$s = t - 1/16''$

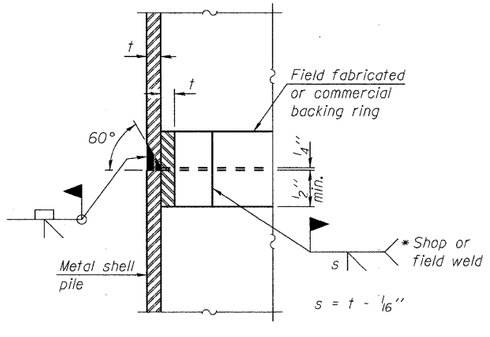
END PLATE ATTACHMENT



Note A:
When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.

METAL SHELL PILE SHOE ATTACHMENT

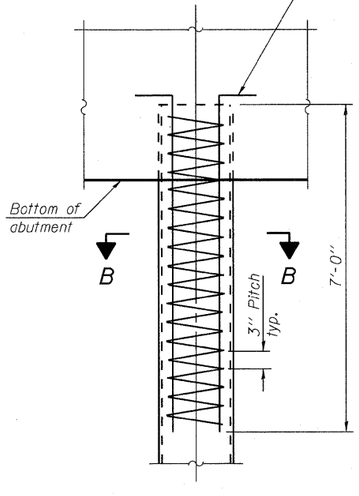
(See Note A)



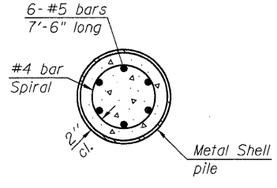
$s = t - 1/16''$

COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION



SECTION B-B

METAL SHELL REINFORCEMENT AT ABUTMENTS

Note:
The metal shell piles shall be according to ASTM A 252 Grade 3.

F-MS 7-1-10

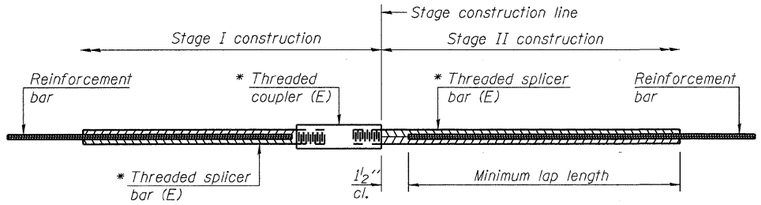
ABNA DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED - TBS	REVISED -		
CHECKED - RJL	REVISED -		
DRAWN - JJE	REVISED -		
CHECKED - SEA	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

METAL SHELL PILE DETAILS
STRUCTURE NO. 016-1101
SHEET NO. 30 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	73
STA.	TO STA.	CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



STANDARD BAR SPLICER ASSEMBLY

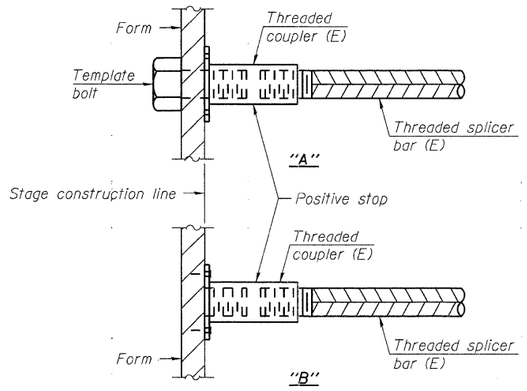
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

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
Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1½" + thread length

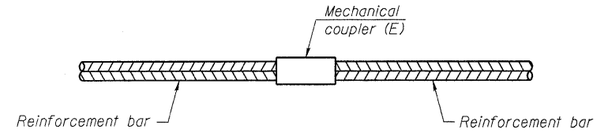
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



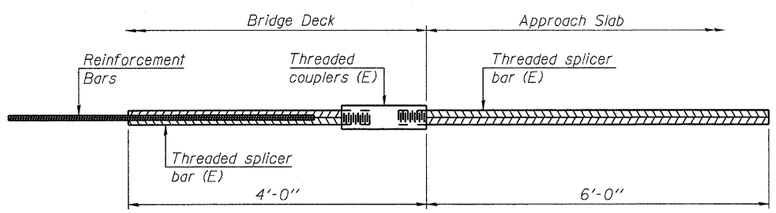
INSTALLATION AND SETTING METHODS

"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.



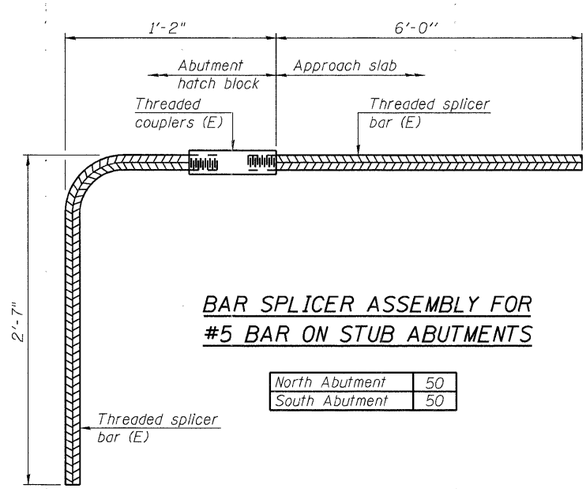
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

North Abutment	50
South Abutment	50

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.

BSD-1 7-1-10

ABNA DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED - TBS	REVISED -	
CHECKED - RJL	REVISED -	
DRAWN - JJE	REVISED -	
CHECKED - SEA	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 016-1101
SHEET NO. 31 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	74
STA. TO STA.		CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STRUCTURE FOUNDATION
METRIC BORING LOG

O'BRIEN & ASSOCIATES, INC.
CONSULTING ENGINEERS
1235 E. DAVIS ST./ARLINGTON HTS., IL 60005
(847)398-1441 * FAX(847) 398-2376

Sh 1 of 2

Project Oriole Avenue over John F. Kennedy Expressway — OBA JOB NO. 00140
Route FAU 341 over FAI 90 — Structure No 016-1101 — Rig CME-75
Section 1515.1F-B — Location Chicago, Illinois — Bored By CC
County Cook — Date Febraury 17, 2000 — Checked By DOB

BORING NO. DB-1
Station 00+957.5
Offset 12.0 m Rt.

Surface Water Elev. N/A
Groundwater Elevation 196.75 WD
Groundwater Elevation 196.6 AB
After Hours

Ground Surface Elevation 199.9	Blow Counts	R (mm)	Qu (kPa)	W (%)
Black TOPSOIL				
199.6				
SAND & GRAVEL-brown-loose (A-1) FILL	4			
199.15	4 3		NP	5
SANDY LOAM with Gravel-brown-medium dense (A-2) FILL	1 4			
198.7	6		NP	12
LOAM-grayish brown-loose (A-4) FILL -1.5	4 3			
198.1	2		NP	11
Black TOPSOIL	2			
	4 4		-	40
	1			
-3.0	1 1		-	34
196.75 ▽				
CLAY-gray-soft to stiff (A-6)	1			
	1 1		96P	22
	1			
-4.5	1 1		80B	27
	1			
	2 1		64B	26
	1			
-6.0	1 2		56B	25
	1			
	1 2		48B	25
	1			
-7.5	3 3		88B	28

CLAY-gray-soft to stiff (A-6)	Blow Counts	R (mm)	Qu (kPa)	W (%)
	2			
	2 6		136B	21
	1			
-9.0	2 4		96B	21
	1			
	3 3		56B	22
	2			
-10.5	3 9		128B	22
189.1				
SANDY CLAY to SANDY CLAY LOAM-gray-stiff to very stiff (A-6)	3			
	6 8		136B	14
	4			
-12.0	4 6		200B	11
187.6				
CLAY-gray-medium stiff to stiff (A-6)	4			
	4 4		56B	23
	3			
-13.5	5 6		80B	12
	2			
	5 5		136B	19
185.35				
CLAY-gray-very stiff (A-6)	7			
-15.0	8 14		208B	20

N-Standard Penetration Test (ASTM D-1586) Type Failure
R-Recovery in millimeters
B-Bulge Failure S-Shear Failure
E-Estimated Value P-Penetrometer
Qu-Unconfined Compressive Strength (kPa) Unit wt. (kN/m³) noted in
W-Water Content, percent dry weight Italics above w%
NP-Non-Plastic

O'BRIEN & ASSOCIATES, INC.

STRUCTURE FOUNDATION
METRIC BORING LOG

O'BRIEN & ASSOCIATES, INC.
CONSULTING ENGINEERS
1235 E. DAVIS ST./ARLINGTON HTS., IL 60005
(847)398-1441 * FAX(847) 398-2376

Sh 2 of 2

Project Oriole Avenue over John F. Kennedy Expressway — OBA JOB NO. 00140
Route FAU 341 over FAI 90 — Structure No 016-1101 — Rig CME-75
Section 1515.1F-B — Location Chicago, Illinois — Bored By CC
County Cook — Date February 17, 2000 — Checked By DOB

BORING NO. DB-1
Station 00.957.5
Offset 12.0 m Rt.

Surface Water Elev. N/A
Groundwater Elevation 196.75 WD
Groundwater Elevation 196.6 AB
After Hours

CLAY-gray-very stiff (A-6)	Blow Counts	R (mm)	Qu (kPa)	W (%)
	3			
-16.5	6 9		250B	21
182.5				
	7			
SILT-gray-medium dense (A-4) -18.0	13 14		NP	15
181.0				
CLAY-gray-very stiff (A-6)	3			
-19.5	6 8		224B	16
	2			
-21.0	5 10		240B	20
	4			
-22.5	8 11		240B	18

CLAY-gray-very stiff (A-6)	Blow Counts	R (mm)	Qu (kPa)	W (%)
176.8				
CLAY-gray-hard (A-6)	9			
	19			
175.9 -24.0	29		536B	12
END OF BORING at -24.0 m				
Hollow Stem Augers				
CME Automatic Hammer				
-25.5				
-27.0				
-28.5				
-30.0				

N-Standard Penetration Test (ASTM D-1586) Type Failure
R-Recovery in millimeters
B-Bulge Failure S-Shear Failure
E-Estimated Value P-Penetrometer
Qu-Unconfined Compressive Strength (kPa) Unit wt. (kN/m³) noted in
W-Water Content, percent dry weight Italics above w%
NP-Non-Plastic

O'BRIEN & ASSOCIATES, INC.

Notes: Dimensions are in SI units.
Elevation 199.930 SI = About 655.93 English

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED - SEA	REVISED -	
CHECKED - RJL	REVISED -	
DRAWN - JJE	REVISED -	
CHECKED - SEA	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 016-1101
SHEET NO. 32 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	75
STA. TO STA.		CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STRUCTURE FOUNDATION
METRIC BORING LOG

O'BRIEN & ASSOCIATES, INC.
CONSULTING ENGINEERS
1235 E. DAVIS ST./ARLINGTON HTS.. IL 60005
(847)398-1441 * FAX(847) 398-2376

Sh 1 of 2

Project Oriole Avenue over John F. Kennedy Expressway — OBA JOB NO. 00140
Route FAU 3410ver FAI90 — Structure No 016-1101 — Rig CME-75
Section 1515.1F-B — Location Chicago, Illinois — Bored By CC
County Cook — Date Febraury 21, 2000 — Checked By DOB

BORING NO. DB-2
Station 01+044.5
Offset 10.0 m Lt.

Surface Water Elev. N/A
Groundwater Elevation -
Groundwater Elevation -
After Hours

	Blow Counts	R (mm)	Qu (kPa)	W (%)
Ground Surface Elevation 200.4				
50 mm ASPHALT, 125 mm CONCRETE, 125 mm SAND & GRAVEL 200.1	2			
COARSE CRUSHED STONE-Possible Crushed Concrete (FILL) 199.65	2 1		NP	5
Black & Gray Organic TOPSOIL (A-7) -1.5 198.75	1 2 2		72P	38
CLAY-mottled brown and gray-stiff (A-6) wet 197.85	1 1 2		96P	29
SILTY CLAY-brown and gray-very stiff (A-6) -3.0 196.5	2 4 5 1 4 6		192P 335P	16 111.3 20
CLAY-gray-medium stiff to stiff (A-6) (Very Stiff from -4.05 m to -4.5 m) -4.5	2 5 8 1 3 3 1 2 3		232B 103.5 120B 98.0 112B	18 21 24
-6.0	1 2 3		107.6 104B	23
-7.5	1 3 4		103.0 88B	23
CLAY-gray-medium stiff to stiff (A-6)	1			101.7
	3		104B	22
-9.0	1 2 4		100.6 136B	23
	2			100.1
	2 4		64B	23
	1			104.5
-10.5	3 5 1		120B	22
	3 4		128B	22
	2			104.0
-12.0	3 3 1		104B 108.9	21
	4 4 2		88B 106.4	20
-13.5	4 5 2		104B	21
	3 5 2		176B 107.7	18
-15.0	5 7		144B	21

N-Standard Penetration Test (ASTM D-1586) Type Failure
R-Recovery in millimeters
B-Bulge Failure S-Shear Failure
E-Estimated Value P-Penetrometer
Qu-Unconfined Compressive Strength (kPa) Unit wt. (kN/m³) noted in italics above w%
W-Water Content, percent dry weight
NP-Non-Plastic

O'BRIEN & ASSOCIATES, INC.

STRUCTURE FOUNDATION
METRIC BORING LOG

O'BRIEN & ASSOCIATES, INC.
CONSULTING ENGINEERS
1235 E. DAVIS ST./ARLINGTON HTS.. IL 60005
(847)398-1441 * FAX(847) 398-2376

Sh 2 of 2

Project Oriole Avenue over John F. Kennedy Expressway — OBA JOB NO. 00140
Route FAU 3410ver FAI90 — Structure No 016-1101 — Rig CME-75
Section 1515.1F-B — Location Chicago, Illinois — Bored By CC
County Cook — Date February 21, 2000 — Checked By DOB

BORING NO. DB-2
Station 01+044.5
Offset 10.0 m Lt.

Surface Water Elev. N/A
Groundwater Elevation -
Groundwater Elevation -
After Hours

	Blow Counts	R (mm)	Qu (kPa)	W (%)
CLAY-gray-medium stiff to stiff (A-6)				
	4		108.8	
-16.5	6 6		176B	19
182.85	5			
CLAY LOAM-gray-very stiff (A-6) -18.0	9 15		224B	9
181.35	4			117.9
CLAY-gray-stiff to very stiff (A-6) -19.5	5 7		240B	15
	4			114.6
-21.0	7 9		256B	16
	3		107.7	
-22.5	4 8		184B	20
CLAY-gray-stiff to very stiff (A-6)	2			119.5
-24.0	5 13		128B	17
175.95				
CLAY LOAM-gray-hard (A-6)	13			122.3
174.9 -25.5	14 17		480B	12
END OF BORING at -25.5 m Hollow Stem Augers CME Automatic Hammer				
-27.0				
-28.5				
-30.0				

N-Standard Penetration Test (ASTM D-1586) Type Failure
R-Recovery in millimeters
B-Bulge Failure S-Shear Failure
E-Estimated Value P-Penetrometer
Qu-Unconfined Compressive Strength (kPa) Unit wt. (kN/m³) noted in italics above w%
W-Water Content, percent dry weight
NP-Non-Plastic

O'BRIEN & ASSOCIATES, INC.

Notes: Dimensions are in SI units.
Elevation 199.930 SI = About 655.93 English

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED - SEA	REVISED -
CHECKED - RJL	REVISED -
DRAWN - JJE	REVISED -
CHECKED - SEA	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 016-1101
SHEET NO. 33 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	76
STA.	TO STA.	CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

wangeng@wangeng.com
1145 North Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG HA-1

WEI Job No.: 456-01-03

Client ABNA of Illinois, Inc.

Project Oriole Avenue over Kennedy Expressway, Section

Location Co.

Datum: NGVD
Elevation: 649.50 ft
North: 1936938.80 ft
East: 1124712.16 ft
Station: NA
Offset: NA

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	649.3	3-inch thick, black SILTY LOAM --TOPSOIL--						
		Hard, brown CLAY LOAM, trace gravel --FILL--		PUSH	1		> 4.50 P	15
				PUSH	2		3.50 P	21
	645.6	Medium stiff to stiff, gray SILTY CLAY, trace gravel	5	PUSH	3		1.75 P	23
				PUSH	4		1.00 P	23
				PUSH	5		1.50 P	22
			10	PUSH	6		1.25 P	23
				PUSH	7		1.25 P	23
			15	PUSH	8		0.75 P	23
	633.5	Boring terminated at 16.00 ft	20					

GENERAL NOTES

Begin Drilling 08-01-2011 Complete Drilling 08-01-2011
Drilling Contractor WTS Drill Rig Geoprobe pick hammer
Driller K/R Logger F. Bozga Checked by C. Marin
Drilling Method Hand Auger

WATER LEVEL DATA

While Drilling ▽ DRY
At Completion of Drilling ▼ DRY
Time After Drilling NA
Depth to Water ▽ NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

wangeng@wangeng.com
1145 North Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG HA-2

WEI Job No.: 456-01-03

Client ABNA of Illinois, Inc.

Project Oriole Avenue over Kennedy Expressway, Section

Location Co.

Datum: NGVD
Elevation: 648.68 ft
North: 1936755.04 ft
East: 1124641.67 ft
Station: NA
Offset: NA

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	648.2	6-inch thick, black SILTY CLAY --TOPSOIL--						
		Stiff, brown and gray CLAY LOAM, trace gravel		PUSH	1		1.75 P	22
	646.9	--FILL--						
		Medium stiff, gray SILTY CLAY, trace gravel		PUSH	2		2.00 P	19
			5	PUSH	3		1.50 P	23
				PUSH	4		0.75 P	22
				PUSH	5		0.50 P	24
			10	PUSH	6		0.50 P	22
				PUSH	7		0.50 P	18
			15	PUSH	8		0.50 P	23
	632.7	Boring terminated at 16.00 ft	20					

GENERAL NOTES

Begin Drilling 08-01-2011 Complete Drilling 08-01-2011
Drilling Contractor WTS Drill Rig Geoprobe pick hammer
Driller K/R Logger F. Bozga Checked by C. Marin
Drilling Method Hand Auger

WATER LEVEL DATA

While Drilling ▽ DRY
At Completion of Drilling ▼ DRY
Time After Drilling NA
Depth to Water ▽ NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED - SEA	REVISED -
CHECKED - RJL	REVISED -
DRAWN - JJE	REVISED -
CHECKED - SEA	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 016-1101
SHEET NO. 34 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	77
STA. TO STA.		CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BORING LOG SB-1

wangeng@wangeng.com
1145 North Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

WEI Job No.: 456-01-03

Client ABNA of Illinois, Inc.

Project Oriole Avenue over Kennedy Expressway, Section

Location Co.

Datum: NGVD
Elevation: 637.50 ft
North: 1936926.30 ft
East: 1124634.42 ft
Station: NA
Offset: NA

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	637.0	6-inch thick ASPHALT --PAVEMENT--						
		Loose, brown GRAVELLY LOAM --FILL--			1	2 3 3	NP	5
	635.3	Medium stiff to very stiff, gray CLAY to SILTY CLAY, trace gravel	5		2	4 3 4	0.98 B	23
					3	2 3 4	1.00 B	14
			10		4	2 3 4	1.48 B	23
					5	0 2 2	0.74 B	24
		--LL(%)=34, PL(%)=17-- --%Gravel=2.3-- --%Sand=11.7-- --%Silt=48.5-- --%Clay=37.5-- --A-6 (14)--	15		6	2 2 3	1.07 B	23
					7	2 3 4	1.15 B	20
			20		8	1 3 3	1.23 B	22
			25		9	3 3 4	1.64 B	22
					10	3 3 4	1.56 B	21
					11	3 4 5	1.80 B	22
			30		12	4 5 7	2.13 B	21
			35		13	5 6 6	2.13 B	20
					14	6 7 11	3.69 B	21
			40					

GENERAL NOTES

Begin Drilling 08-03-2011 Complete Drilling 08-03-2011
Drilling Contractor WTS Drill Rig B-57 TMR
Driller K/R Logger F. Bozga Checked by C. Marin
Drilling Method 3.25 IDA HSA; 140 Autohammer 2.5' interval to 30', 5' thereafter

WATER LEVEL DATA

While Drilling ▽ DRY
At Completion of Drilling ▼ DRY
Time After Drilling NA
Depth to Water ▼ NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

BORING LOG SB-1

wangeng@wangeng.com
1145 North Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

WEI Job No.: 456-01-03

Client ABNA of Illinois, Inc.

Project Oriole Avenue over Kennedy Expressway, Section

Location Co.

Datum: NGVD
Elevation: 637.50 ft
North: 1936926.30 ft
East: 1124634.42 ft
Station: NA
Offset: NA

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	596.0	Very stiff, gray LOAM to SILTY LOAM, little gravel	45		15	4 7 7	2.87 B	15
	591.0	Very stiff, gray SILTY CLAY LOAM, trace gravel						
		--LL(%)=29, PL(%)=16-- --%Gravel=6.8-- --%Sand=17.3-- --%Silt=48.7-- --%Clay=27.2-- --A-6 (8)--	50		16	5 8 11	3.44 B	16
			55		17	5 6 8	2.30 B	21
	580.5	Dense, gray SILTY LOAM						
	577.5	Boring terminated at 60.00 ft	60		18	13 22 22	NP	14

GENERAL NOTES

Begin Drilling 08-03-2011 Complete Drilling 08-03-2011
Drilling Contractor WTS Drill Rig B-57 TMR
Driller K/R Logger F. Bozga Checked by C. Marin
Drilling Method 3.25 IDA HSA; 140 Autohammer 2.5' interval to 30', 5' thereafter

WATER LEVEL DATA

While Drilling ▽ DRY
At Completion of Drilling ▼ DRY
Time After Drilling NA
Depth to Water ▼ NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	SEA	REVISED	-
CHECKED	RJL	REVISED	-
DRAWN	JJE	REVISED	-
CHECKED	SEA	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 016-1101
SHEET NO. 35 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	78
STA.	TO STA.	CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BORING LOG SB-2

wangeng@wangeng.com
1145 North Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

WEI Job No.: 456-01-03

Client ____ ABNA of Illinois, Inc. ____

Project Oriole Avenue over Kennedy Expressway, Section

Location ____ Co. ____

Datum: NGVD
Elevation: 635.91 ft
North: 1936760.34 ft
East: 1124720.94 ft
Station: NA
Offset: NA

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	635.3	7-inch thick ASPHALT --PAVEMENT--						
		Medium dense, brown SANDY GRAVEL --BASE COURSE--			1	7 12 8	NP	9
	633.3	Stiff, gray SILTY CLAY, trace gravel						
			5		2	3 2 2	1.31 B	23
					3	1 2 2	1.23 B	22
			10		4	2 2 3	1.56 B	24
					5	0 1 3	1.15 B	19
			15		6	2 3 3	1.56 B	20
					7	2 3 4	1.72 B	21
			20		8	2 3 4	1.80 B	21
	599.4	Very stiff, gray LOAM to SILTY LOAM, little gravel						
		--LL(%)=33, PL(%)=16-- --%Gravel=0.8-- --%Sand=4.3-- --%Silt=53.6-- --%Clay=41.3-- --A-6 (16)--	25		9	2 2 3	1.31 B	22
					10	3 4 4	1.56 B	24
			30		11	3 3 5	1.72 B	20
					12	2 4 5	1.89 B	21
			35		13	2 5 5	1.97 B	21
		--LL(%)=20, PL(%)=13-- --%Gravel=7.8-- --%Sand=34.1--	40		14	4 8 9	2.54 B	20

GENERAL NOTES

Begin Drilling 08-03-2011 Complete Drilling 08-03-2011
Drilling Contractor WTS Drill Rig B-57 TMR
Driller K/R Logger F. Bozga Checked by C. Marin
Drilling Method 3.25 IDA HSA; 140 Autohammer 2.5' interval to 30', 5' thereafter

WATER LEVEL DATA

While Drilling ▽ DRY
At Completion of Drilling ▼ DRY
Time After Drilling NA
Depth to Water ▼ NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

BORING LOG SB-2

wangeng@wangeng.com
1145 North Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

WEI Job No.: 456-01-03

Client ____ ABNA of Illinois, Inc. ____

Project Oriole Avenue over Kennedy Expressway, Section

Location ____ Co. ____

Datum: NGVD
Elevation: 635.91 ft
North: 1936760.34 ft
East: 1124720.94 ft
Station: NA
Offset: NA

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Silt=44.0-- --%Clay=14.1-- --A-4 (1)--						
			45		15	5 8 10	2.87 B	13
	589.4	Very stiff, gray SILTY CLAY LOAM, trace gravel						
			50		16	4 5 7	2.54 B	17
			55		17	5 7 9	2.79 B	20
	579.4	Medium dense, gray SANDY LOAM, little gravel						
			60		18	6 12 13	NP	14
	574.4	Medium dense, gray SILTY LOAM						
	570.9	Boring terminated at 65.00 ft	65		19	7 10 16	NP	15
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling 08-03-2011 Complete Drilling 08-03-2011
Drilling Contractor WTS Drill Rig B-57 TMR
Driller K/R Logger F. Bozga Checked by C. Marin
Drilling Method 3.25 IDA HSA; 140 Autohammer 2.5' interval to 30', 5' thereafter

WATER LEVEL DATA

While Drilling ▽ DRY
At Completion of Drilling ▼ DRY
Time After Drilling NA
Depth to Water ▼ NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 4560103.GPJ WANGENG.GDT 9/23/11

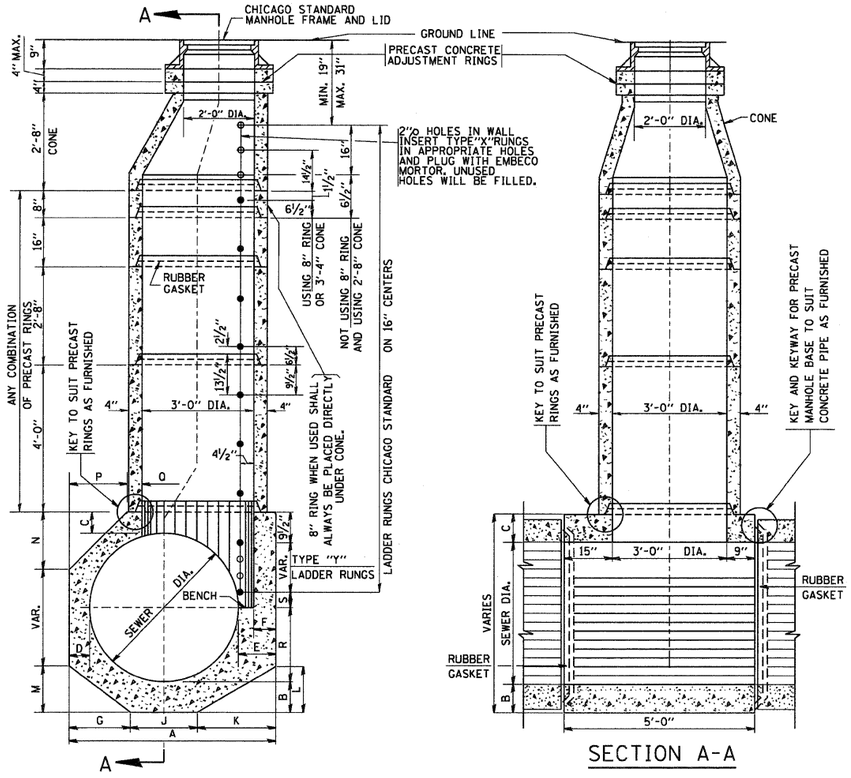
ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

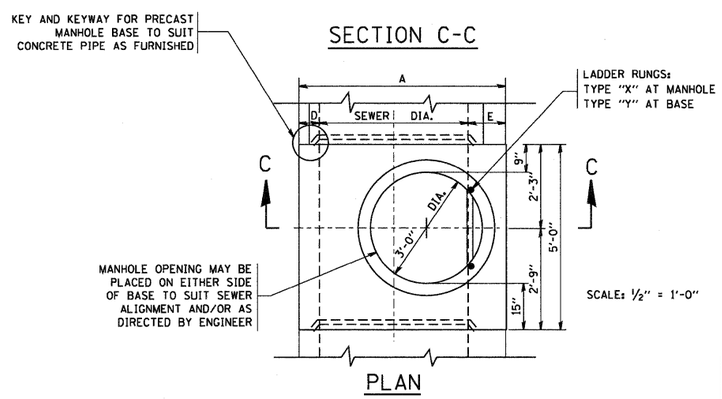
DESIGNED	SEA
CHECKED	RJL
DRAWN	JJE
CHECKED	SEA
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 016-1101
SHEET NO. 36 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	79
STA.	TO STA.	CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



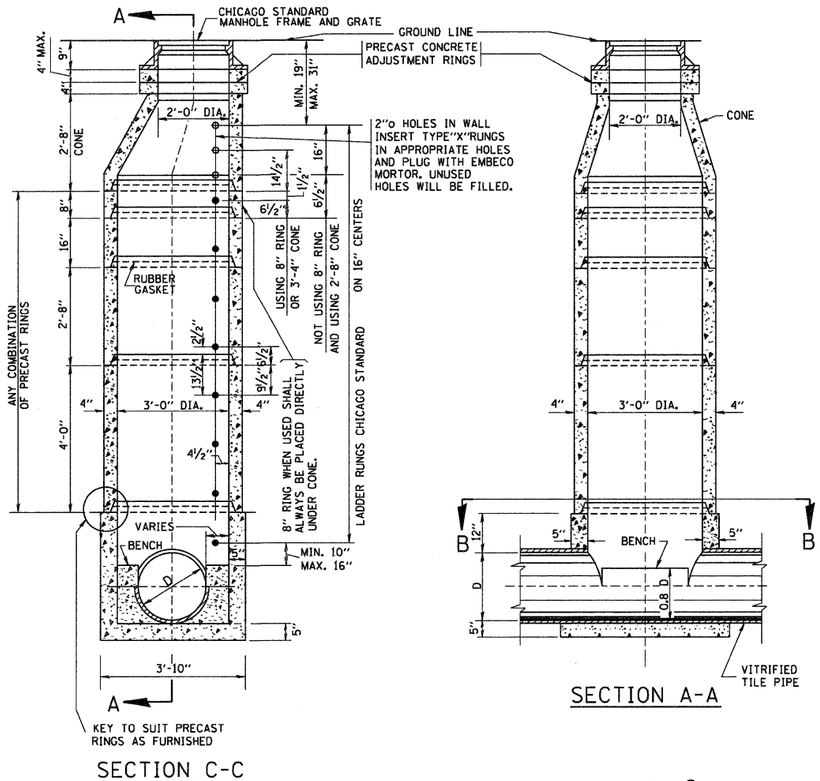


TYPE "A" MANHOLE

FOR SEWERS
24" TO 120" DIAMETER
PRECAST BASES AND RINGS

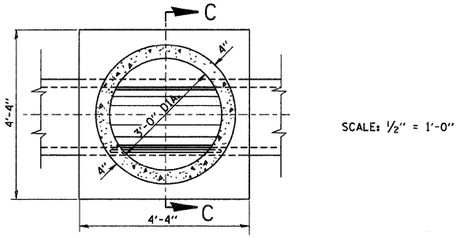
FOR STATE CONTRACT ALL DIMENSIONS SHOULD BE PREPARED IN METRIC UNITS SOFT CONVERSION METHOD SHOULD BE USED.

SEWER DIA.	PART OF ITEM	DIMENSIONS OF PRECAST MANHOLE BASE																NO. "Y" RINGS
		A	B	C	D	E	F	G	J	K	L	M	N	P	O	R		
120"	----	12'-4½"	12"	12"	12"	16½"	12"	4'-0"	4'-0"	4'-4½"	2'-7½"	2'-5"	3'-7"	3'-7"	4'-8½"	2'-0"	2½"	7
108"	----	11'-4½"	12"	12"	12"	16½"	12"	3'-8"	3'-8"	4'-0½"	2'-5"	2'-2"	3'-4"	3'-4"	4'-0½"	2'-0"	6½"	6
102"	----	10'-10½"	12"	12"	12"	16½"	12"	3'-6"	3'-6"	3'-10½"	2'-4"	2'-1"	3'-2"	3'-2"	3'-8½"	2'-0"	16½"	5
96"	10-A	10'-2½"	11"	11"	11"	15½"	11"	3'-3"	3'-3"	3'-8½"	2'-3"	23"	2'-11"	2'-11"	3'-4½"	2'-0"	9½"	5
90"	10-B	9'-8½"	11"	11"	11"	15½"	11"	3'-1"	3'-1"	3'-6½"	2'-1½"	22"	2'-10"	2'-10½"	2'-11½"	2'-0"	3½"	5
84"	10-C	9'-0½"	10"	10"	10"	14½"	10"	2'-11"	2'-11"	3'-2½"	23"	21"	2'-7"	2'-7"	2'-7½"	2'-0"	12½"	4
78"	10-D	8'-6½"	10"	10"	10"	14½"	10"	2'-9"	2'-9"	3'-0½"	22"	20"	2'-6"	2'-6"	2'-2½"	2'-0"	6½"	4
72"	10	7'-10½"	9"	9"	9"	13½"	9"	2'-6"	2'-6"	2'-10½"	21"	18"	2'-3"	2'-3"	22½"	2'-0"	15½"	3
66"	11	7'-4½"	9"	9"	9"	13½"	9"	2'-4"	2'-4"	2'-8½"	19½"	17"	2'-1"	2'-1"	18½"	2'-0"	9½"	3
60"	12	6'-8½"	8"	8"	8"	12½"	8"	2'-1½"	2'-1"	2'-6"	18"	15"	23"	23"	13½"	2'-0"	2½"	3
54"	13	6'-2½"	8"	8"	8"	12½"	8"	23½"	23"	2'-4"	17"	14"	21"	21"	9½"	2'-0"	12½"	2
48"	14	5'-6½"	7"	7"	7"	11½"	7"	20½"	21"	2'-1"	15"	12½"	18½"	18½"	5"	2'-0"	5½"	2
42"	15	5'-0½"	7"	7"	7"	11½"	7"	18½"	19"	23"	14"	11"	---	---	17½"	21"	2½"	2
36"	16	4'-4½"	6"	6"	6"	10½"	6"	16"	16"	20½"	12½"	9½"	---	---	10½"	18"	14½"	1
30"	17	4'-0"	6"	6"	6"	12"	6"	14"	14"	20"	12"	8½"	---	---	6"	15"	11½"	1
24"	18	4'-0"	6"	6"	12"	12"	6"	16"	16"	16"	9½"	9½"	---	---	6"	12"	8½"	1



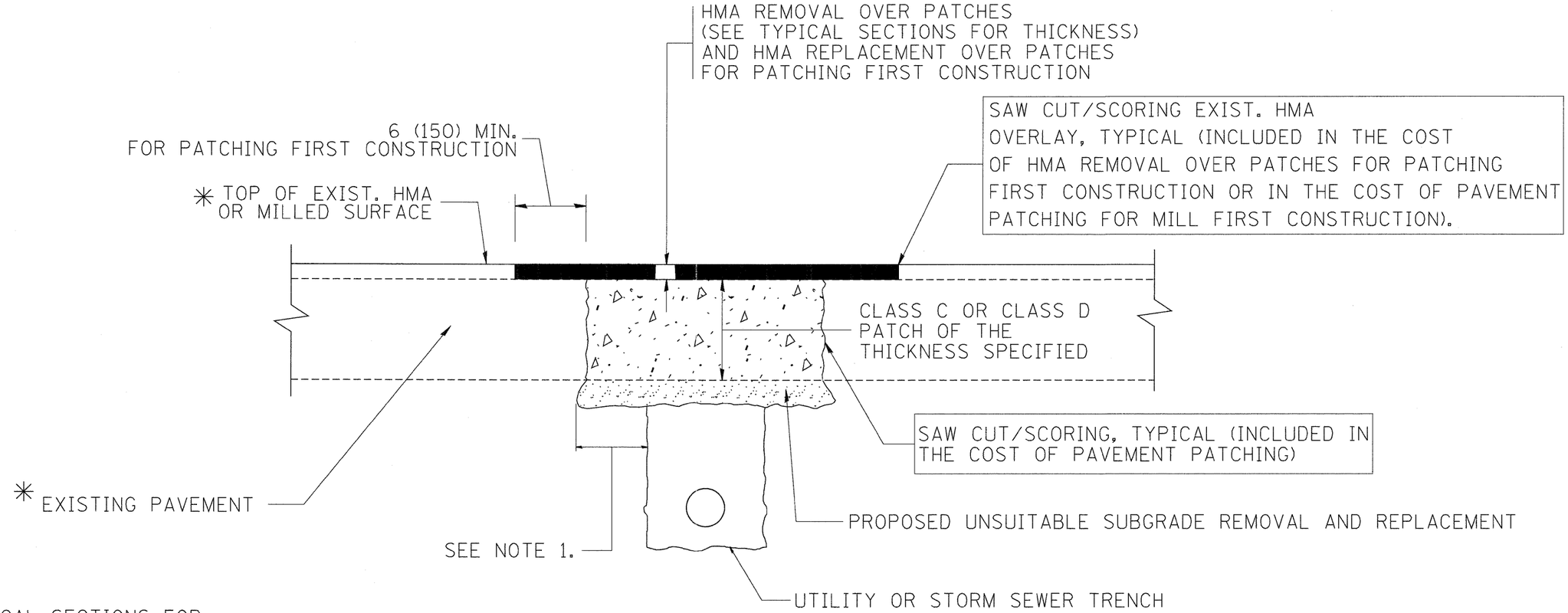
TYPE "A" MANHOLE

FOR SEWERS
21" DIAMETER AND SMALLER
PRECAST BASES AND RINGS



FILE NAME = W:\diststd\22x34\bd09.dgn	USER NAME = gegliarobt	DESIGNED -	REVISED - 09-22-90	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CITY OF CHICAGO DRAINAGE DETAILS
		DRAWN -	REVISED -		
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.
	PLOT DATE = 1/4/2008	DATE - 06-18-82	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	80
	BD600-12 (BD-9)	CONTRACT NO. 60M79		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

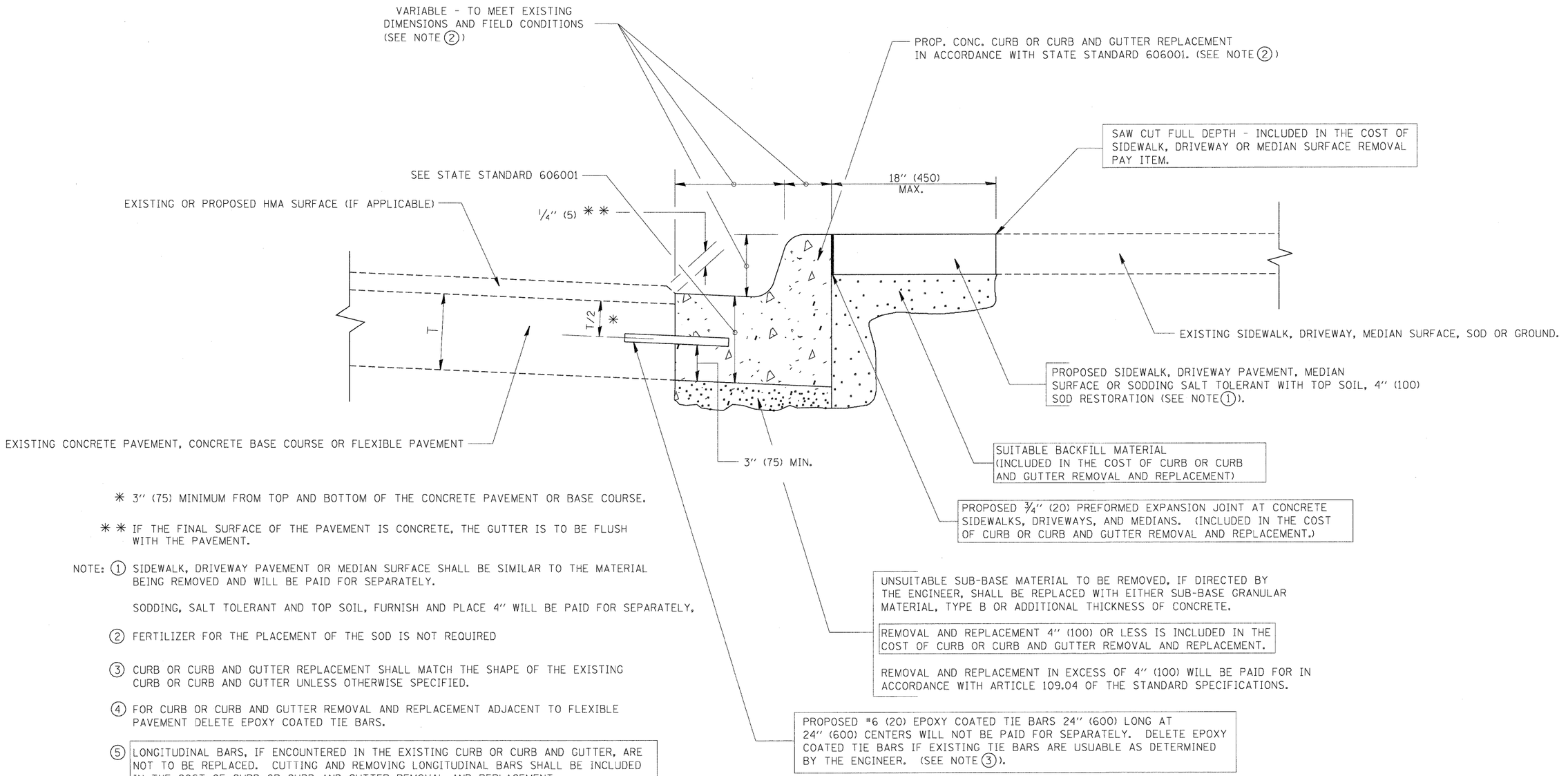
FILE NAME = c:\projects\diststd22x34\bd22.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98
		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - R. BORO 09-04-07
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	81
	BD400-04 (BD-22)	CONTRACT NO. 60M79		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

* * IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: (1) SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.

(2) FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

(3) CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

(4) FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

(5) LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

(6) THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

(7) THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

(8) THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

BASIS OF PAYMENT:

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

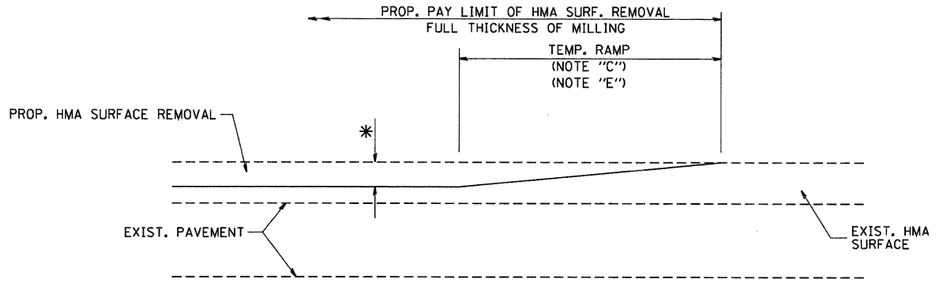
FILE NAME = c:\pw_work\pwidot\drivakosgn\d0108315\bd24.dgn	USER NAME = drivakosgn	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 01-22-01
	PLOT DATE = 12/15/2009	DATE - 03-11-94	REVISED - R. BORO 12-15-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

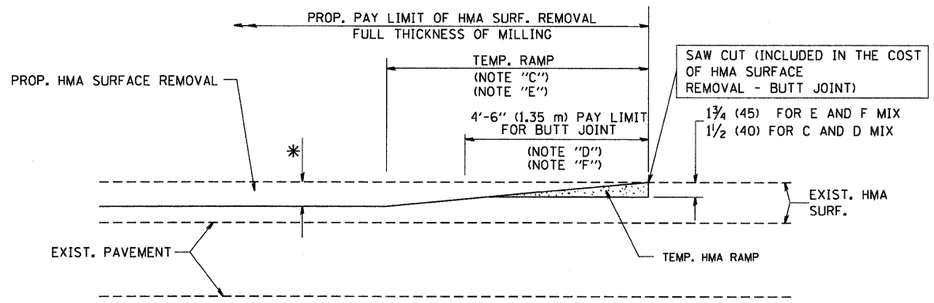
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	82
	BD600-06 (BD-24)	CONTRACT NO. 60M79		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

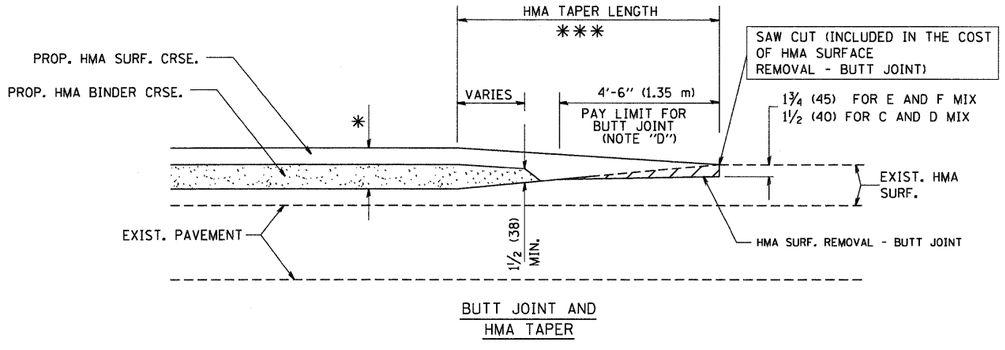


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

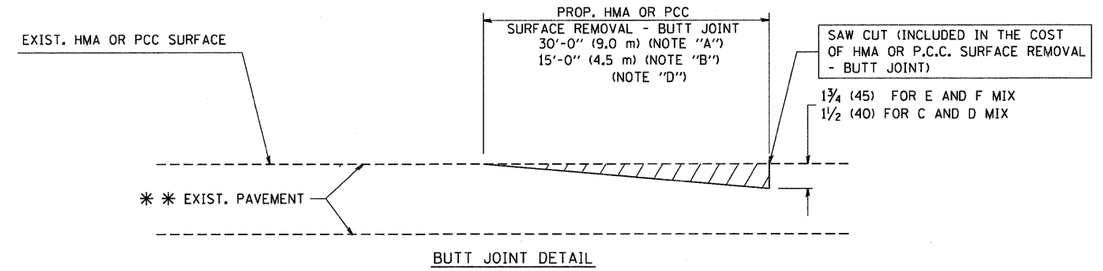
OPTION 2

TYPICAL TEMPORARY RAMP

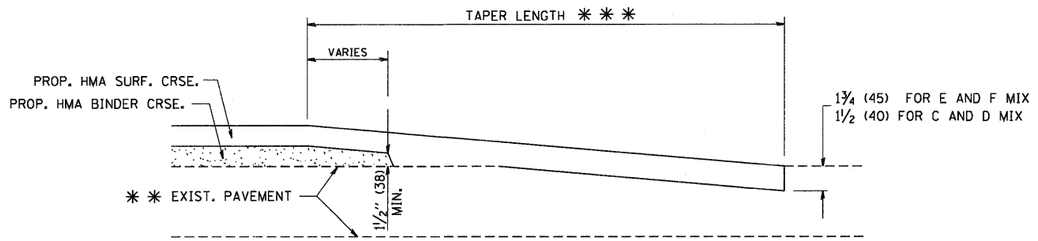


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B: MINOR SIDE ROADS.

C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT

G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

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

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

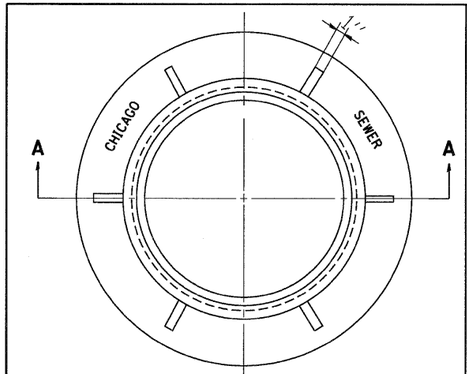
FILE NAME = W:\diststd\22x34\bd32.dgn	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

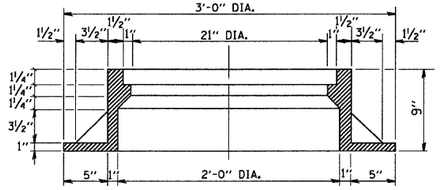
BUTT JOINT AND HMA TAPER DETAILS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	83
	BD400-05 BD32	CONTRACT NO. 60M79		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



PLAN

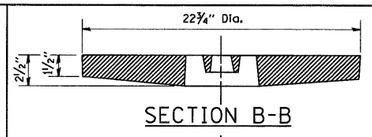


SECTION A-A

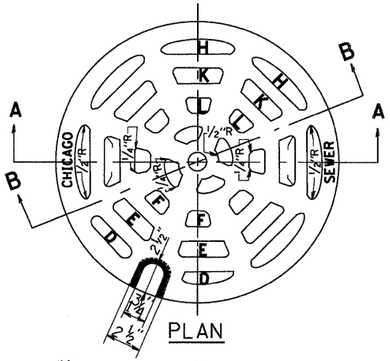
NOTE: METAL PLATES MUST BE FURNISHED FOR PERFORTED LIDS ON MANHOLES

CHICAGO STANDARD MANHOLE FRAME

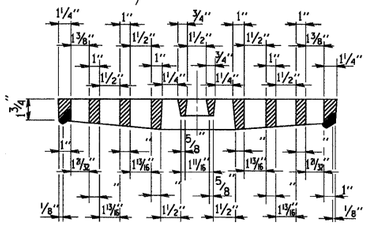
SCALE: 1½"=1'-0"
MATERIAL: CAST IRON



SECTION B-B



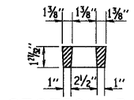
PLAN



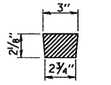
SECTION A-A

PERFORATED LID FOR CATCH BASINS & MANHOLES

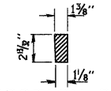
SCALE: 2"=1'-0"
MATERIAL: CAST IRON



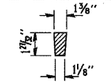
SECTION D-D



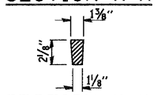
SECTION E-E



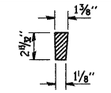
SECTION F-F



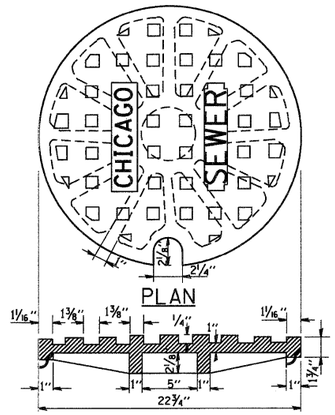
SECTION H-H



SECTION K-K



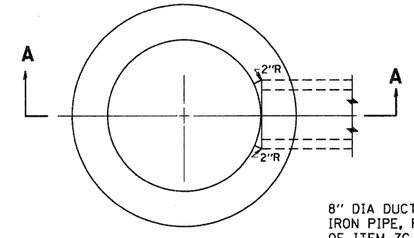
SECTION L-L



SECTION

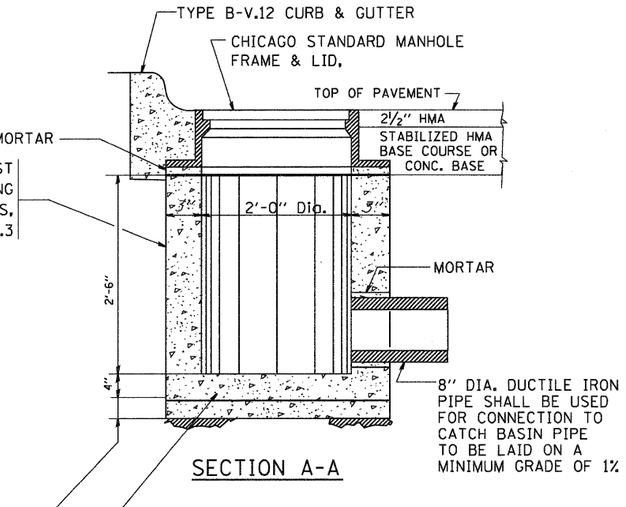
SOLID LID FOR MANHOLES

SCALE: NONE
MATERIAL: CAST IRON



8" DIA DUCTILE IRON PIPE, PART OF ITEM 7G

PLAN
(FRAME & LID NOT SHOWN)



SECTION A-A

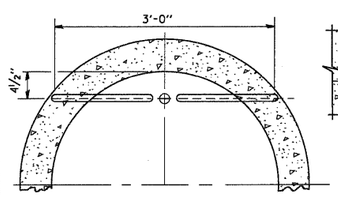
STANDARD INLETS

SCALE 1"= 1'-0"
ITEM 12

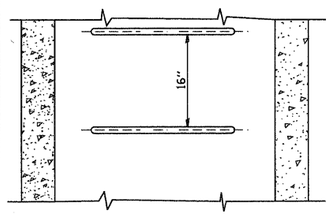
THIS INLET DETAIL IS SOMETIMES REFERRED TO AS "CHICAGO STANDARD INLET, TYPE A"

NOTE:
INLETS SHALL NOT BE CONSTRUCTED UNLESS IT IS IMPOSSIBLE TO CONSTRUCT A CATCH BASIN. THE CONTRACTOR SHALL HAVE THE DEPARTMENT OF SEWERS APPROVAL BEFORE CONSTRUCTING INLETS.

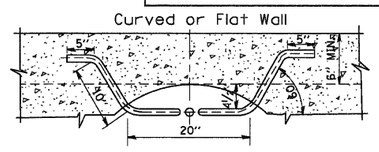
CITY OF CHICAGO
DEPARTMENT OF SEWERS
ENGINEERING DIVISION



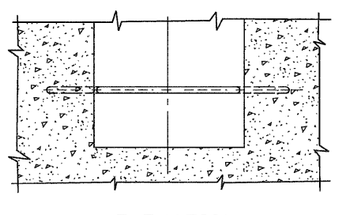
PLAN



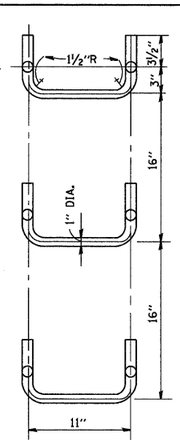
ELEVATION
TYPE X
SCALE: 1"=1'-0"



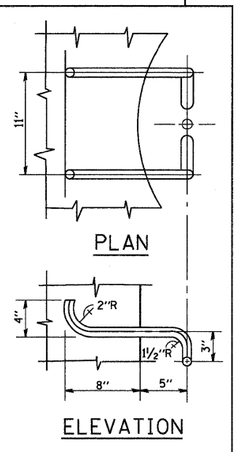
PLAN



ELEVATION
TYPE Y
SCALE: 1"=1'-0"



SPACING



PLAN

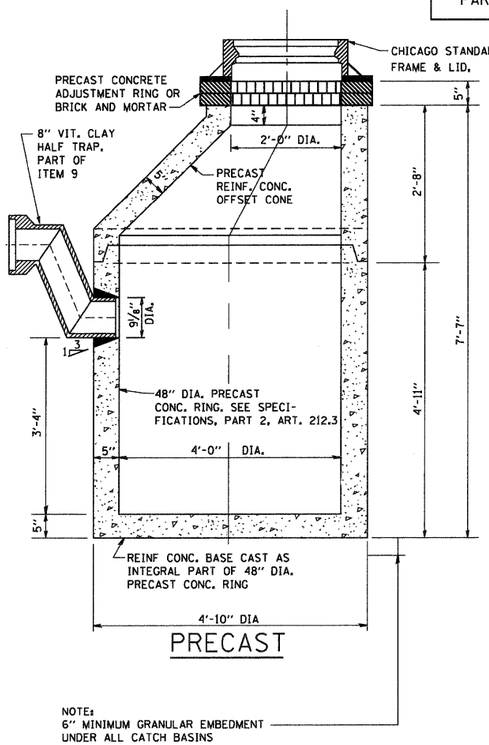
ELEVATION

HANDHOLD-TYPE Z RUNG

Scale: 1½"=1'-0"

STANDARD LADDER RUNGS

ALL LADDER RUNGS SHALL BE ALUMINUM OR GALVANIZED WROUGHT IRON AS SPECIFIED IN THE SPECIFICATIONS, PART 2, ARTICLE 214.2. RUNGS SHALL BE 1" DIAMETER OR OF A SHAPE HAVING AN EQUIVALENT CROSS-SECTIONAL AREA.



PRECAST

NOTE:
6" MINIMUM GRANULAR EMBEDMENT UNDER ALL CATCH BASINS

STANDARD CATCH BASINS

SCALE: ¾"= 1'-0"
ITEM 9

FILE NAME = W:\diststd\22x34\bd47.dgn	USER NAME = gaglianobt	DESIGNED - M. GOMEZ	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE - 01-25-01	REVISED -

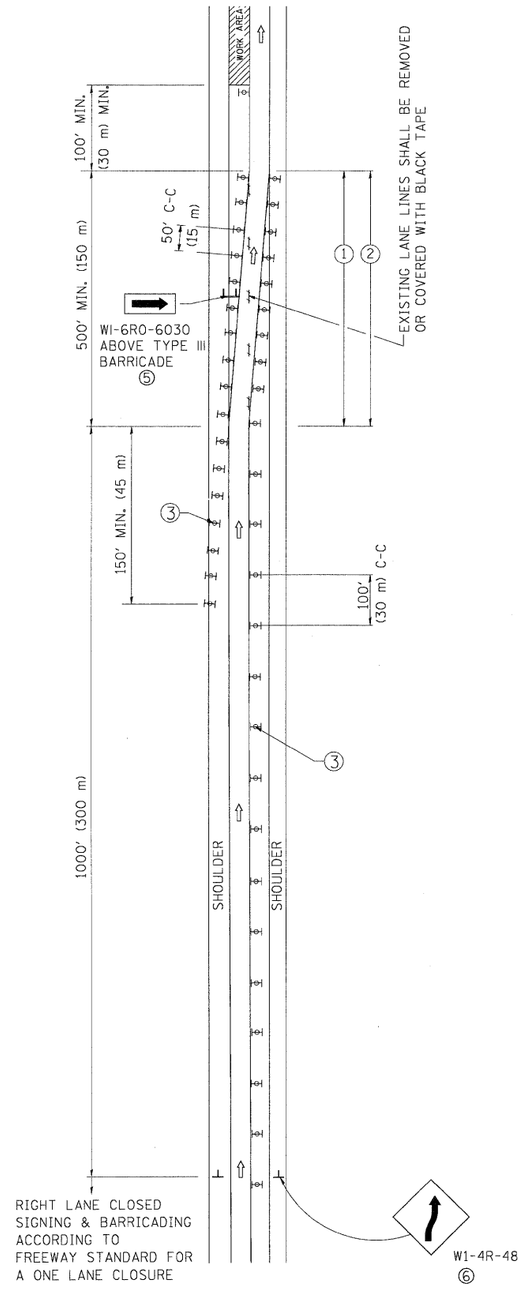
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO
CATCH BASIN, INLET AND MANHOLE DETAILS

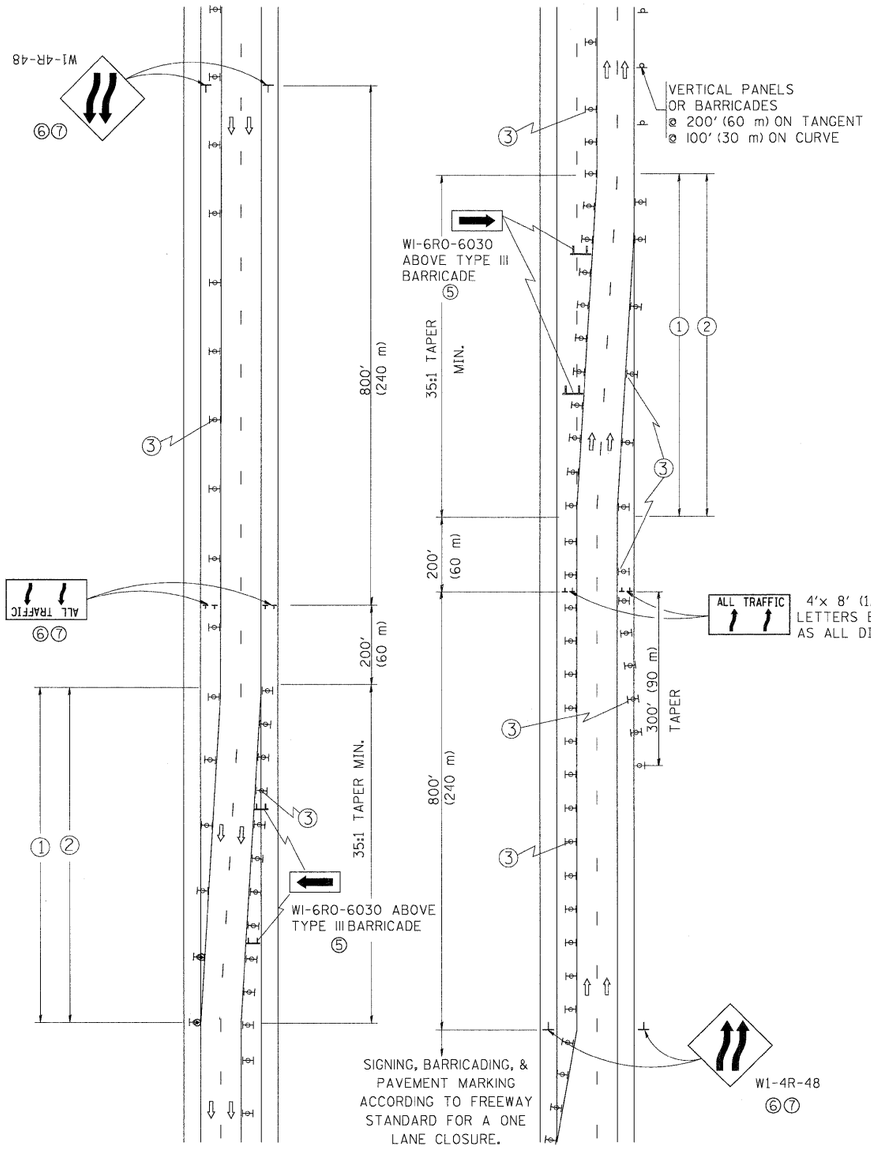
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	84
	BD600-13 (BD47)	CONTRACT NO. 60M79		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SINGLE LANE WEAVE



MULTI-LANE WEAVE



ALL TRAFFIC — 4'x 8' (1.2 m x 2.4 m); 1 (25) BORDER; 10 (250) CAPITAL LETTERS BACKGROUND SHEETING SHALL BE THE SAME AS ALL DIAMOND SHAPED CONSTRUCTION SIGNS.

GENERAL NOTES

① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 24 HOURS IN DURATION.

② CONTINOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.

③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.

④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.

⑤ IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS. TYPE III BARRICADES MAY BE OMMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.

⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.

⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

W24-1-48 ⑦

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

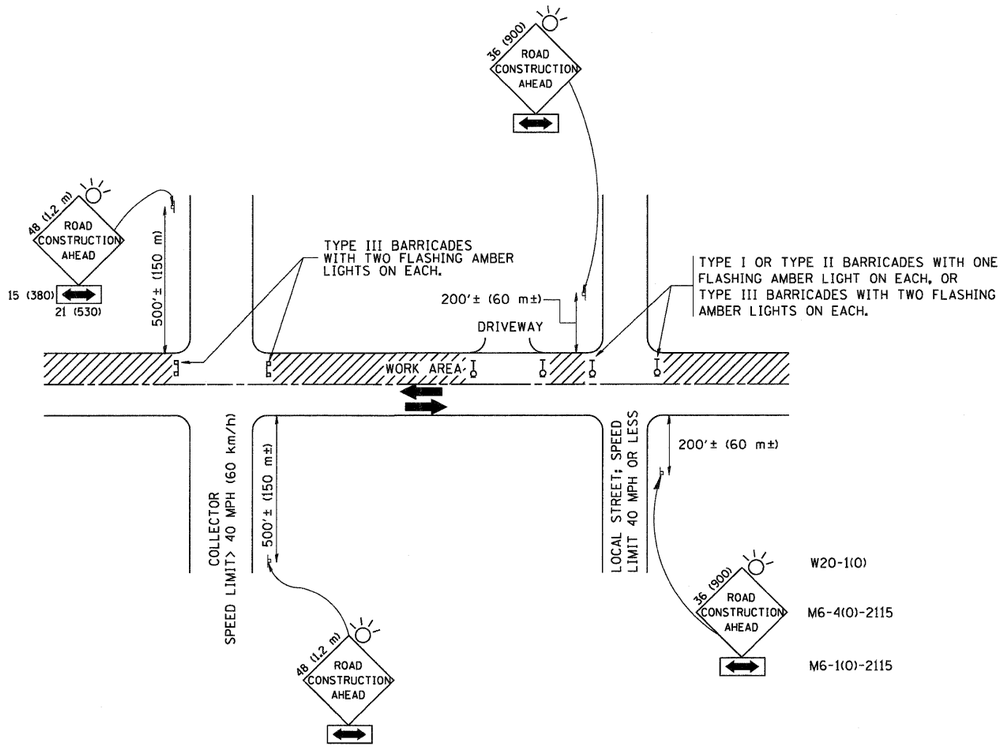
FILE NAME = W:\diststd\22x34\tc09.dgn	USER NAME = leysa	DESIGNED - DWS	REVISED - JAF 01-03
		DRAWN -	REVISED - JAF 02-06
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - SPB 01-07
	PLOT DATE = 1/26/2010	DATE - 02-87	REVISED - SPB 12-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	85
	TC-09	CONTRACT NO. 60M79		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

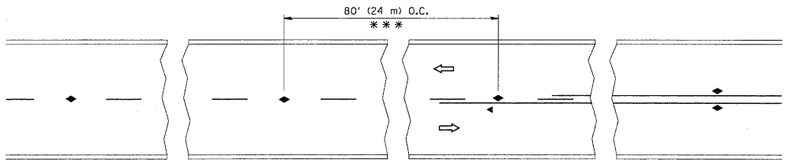
FILE NAME = W:\diststd\22x34\tc10.dgn	USER NAME = gaglionobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

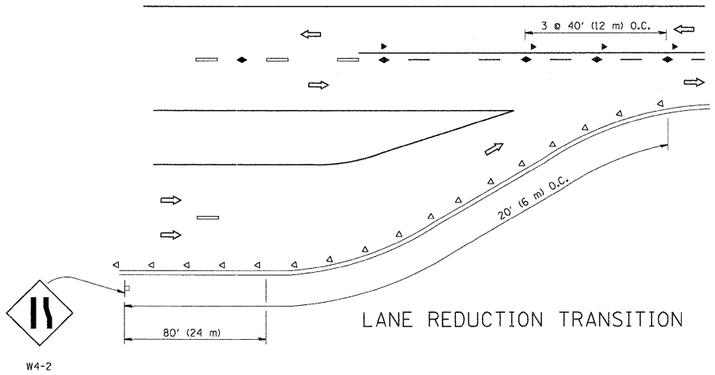
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	86
	TC-10	CONTRACT NO. 60M79		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

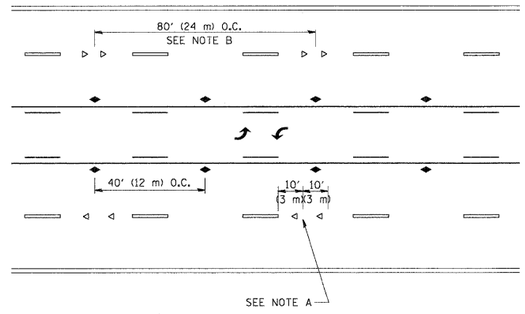


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

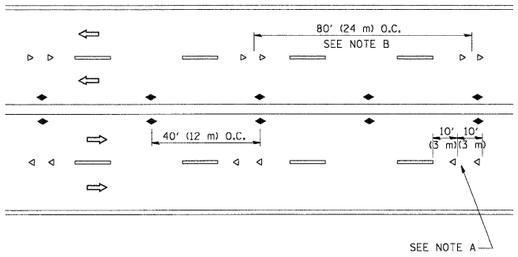
TWO-LANE/TWO-WAY



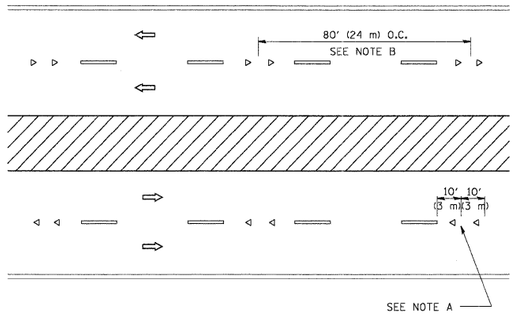
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

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

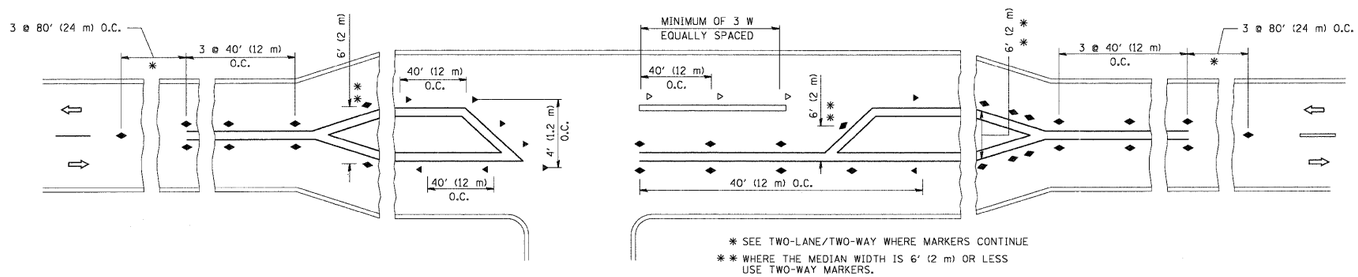
LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

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



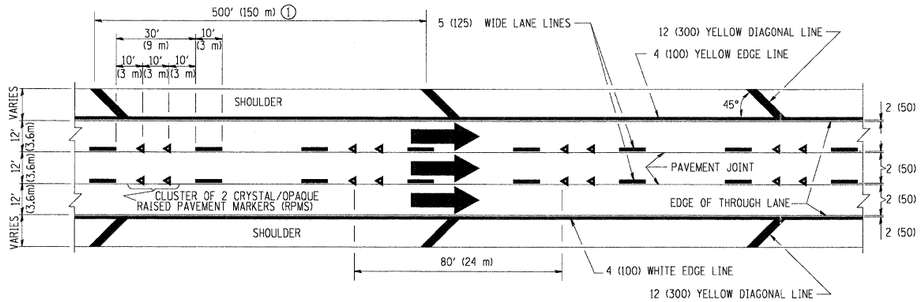
* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

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

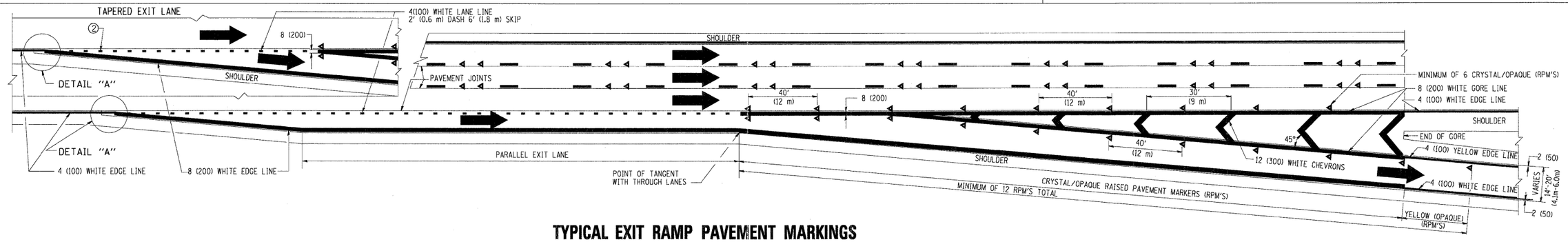
FILE NAME = c:\pw_work\pwidot\drivakosgn\d0108315\tc11.dgn	USER NAME = drivakosgn	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00				90	1515.1-B	COOK	101	87
	PLOT DATE = 9/9/2009	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.		**TC-11**	CONTRACT NO. 60M79		
							FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



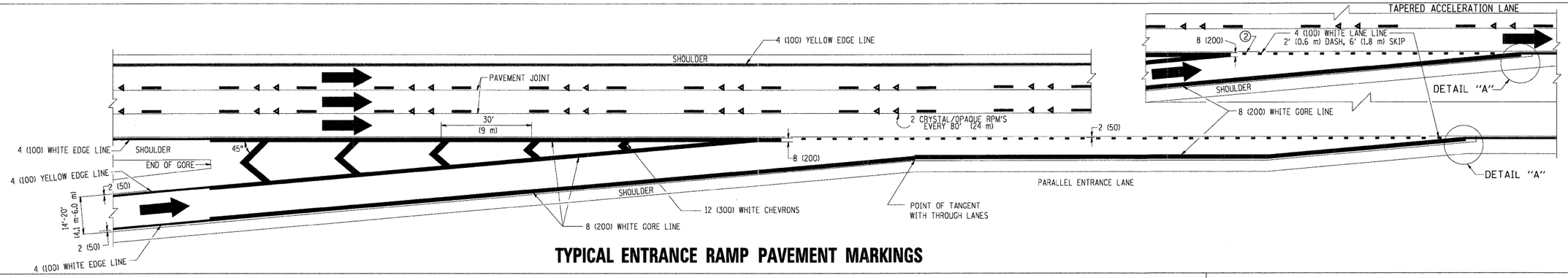
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

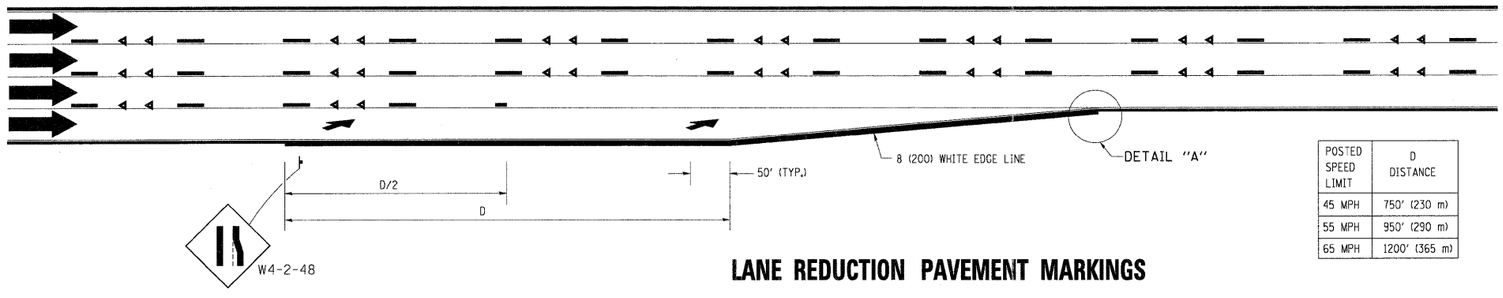
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE SHALL BE USED FOR ALL LANE LINES ON BITUMINOUS PAVEMENT.
3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC.



TYPICAL EXIT RAMP PAVEMENT MARKINGS

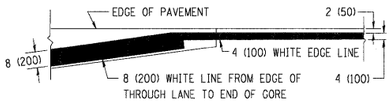


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)

LANE REDUCTION PAVEMENT MARKINGS



DETAIL "A"

NOTES:

① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.

② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

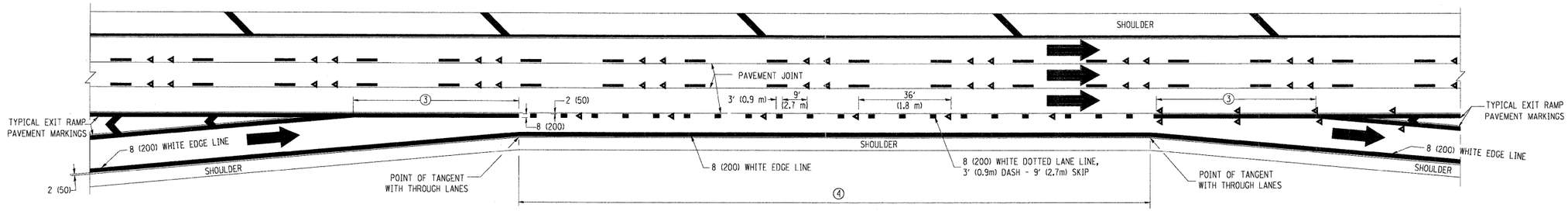
FILE NAME = c:\pw_work\PWIDOT\LEYSA\d0108315\tc12.dgn	USER NAME = leysa	DESIGNED - D.W.S.	REVISED - D.W.S. 07-96
		DRAWN -	REVISED - J.A.F. 02-06
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - S.P.B. 01-07
	PLOT DATE = 1/22/2010	DATE - 01-90	REVISED - S.P.B. 01-10

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

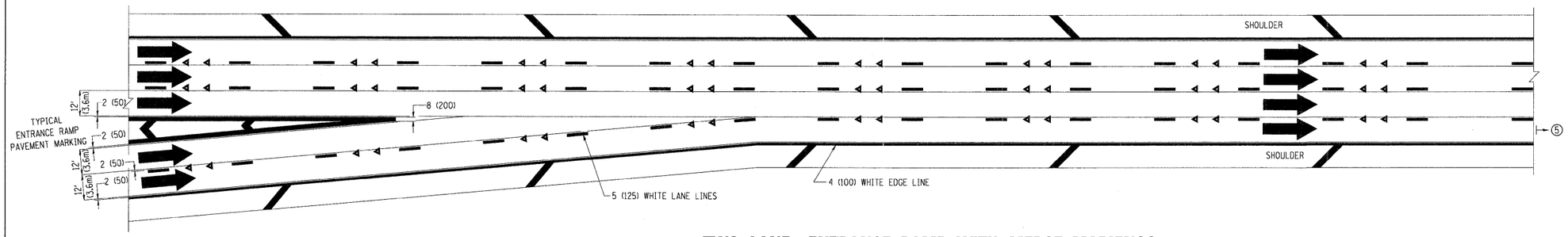
MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS

SCALE: NONE | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

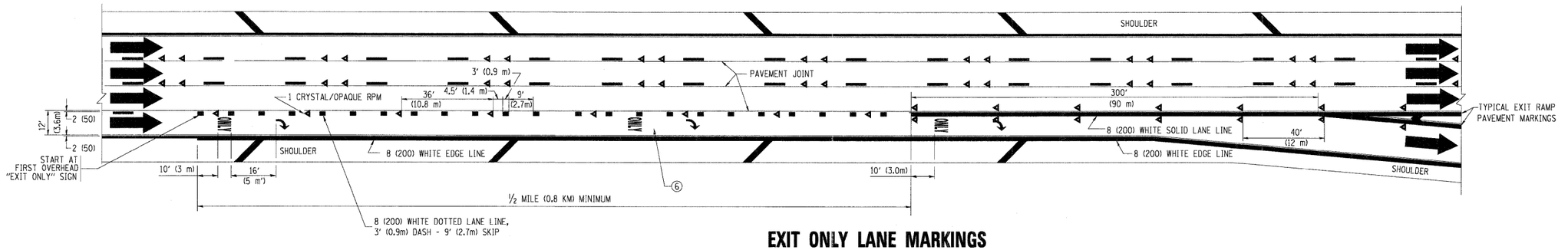
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	88
	TC-12	CONTRACT NO. 60M79		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



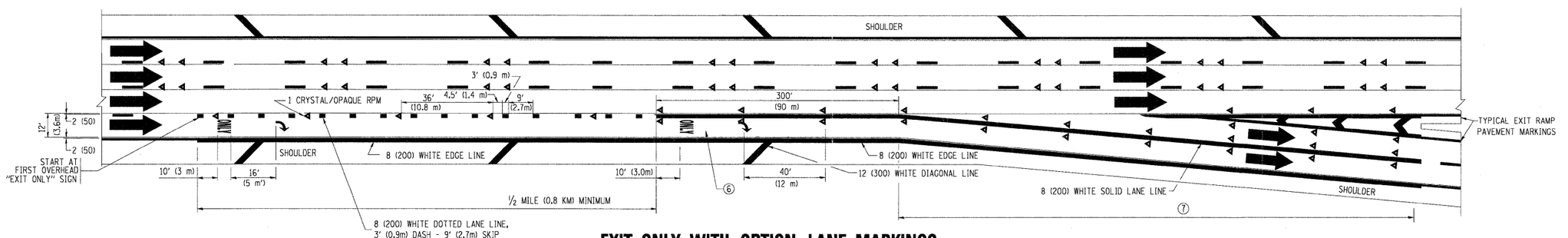
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

NOTES

③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).

④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.

⑤ FOR TWO-LANE ENTRANCE RAMP, IF RICHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.

⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.

⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

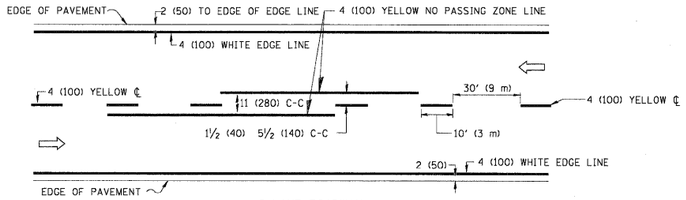
FILE NAME = c:\pw_work\PWIDOT\LEYSA\d0108315\tc12.dgn	USER NAME = leysa	DESIGNED - D.W.S.	REVISED - D.W.S. 07-96
		DRAWN -	REVISED - J.A.F. 02-06
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - S.P.B. 01-07
	PLOT DATE = 1/22/2010	DATE - 01-90	REVISED - S.P.B. 01-10

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

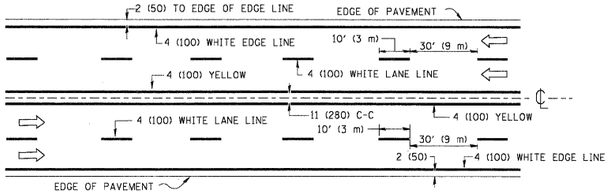
MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS

SCALE: NONE | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

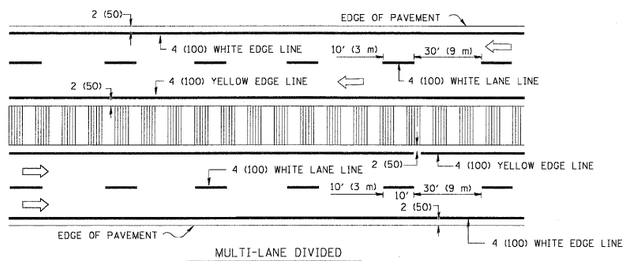
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	88A
	TC-12	CONTRACT NO. 60M79		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



2-LANE ROADWAY



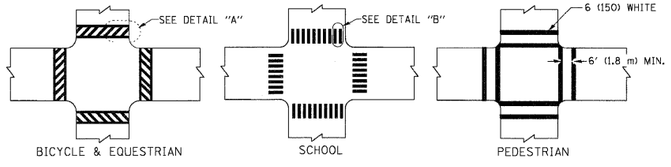
MULTI-LANE UNDIVIDED

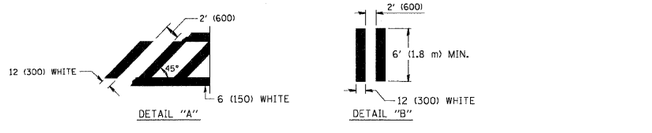


MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

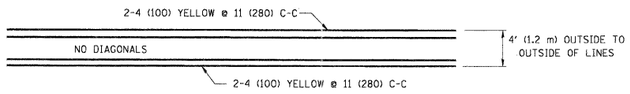
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

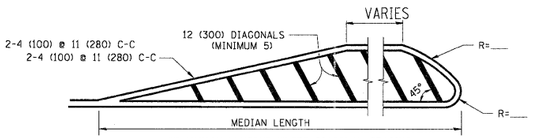




TYPICAL CROSSWALK MARKING



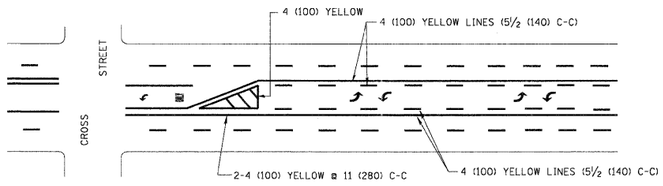
4' (1.2 m) WIDE MEDIANS ONLY



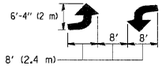
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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 (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

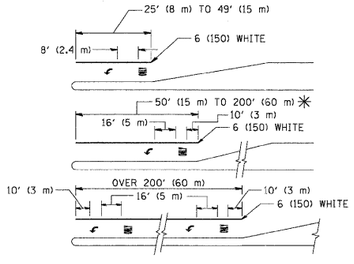


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

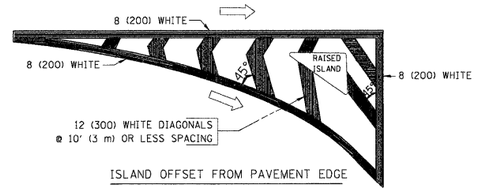


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m^2) **ONLY** AREA = 20.8 SQ. FT. (1.9 m^2)

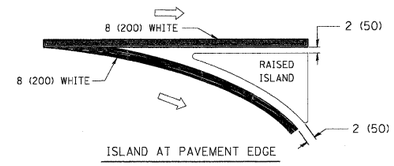
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (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: "R"=3.6 SQ. FT. (0.33 m^2) EACH "X"=54.0 SQ. FT. (5.0 m^2)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

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

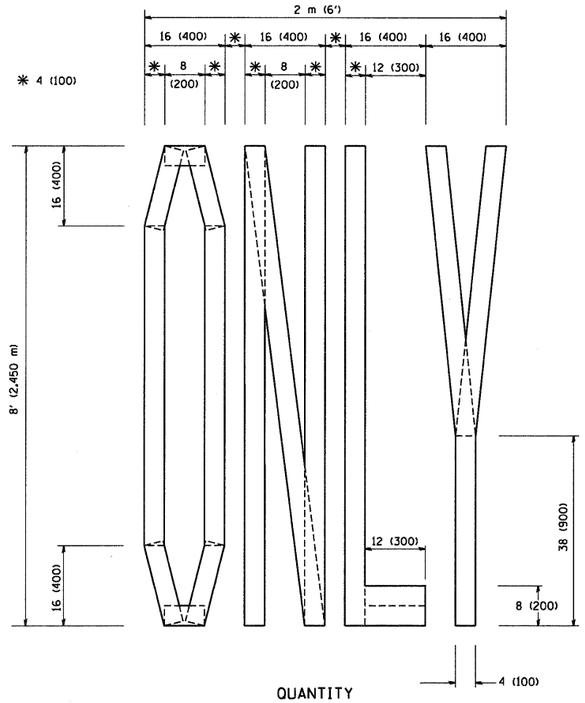
FILE NAME = c:\pw_work\pwidot\drivakosgn\d0128315\tc13.dgn	USER NAME = drivakosgn	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94
		DRAWN -	REVISED -C. JUCIUS 09-09-09
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

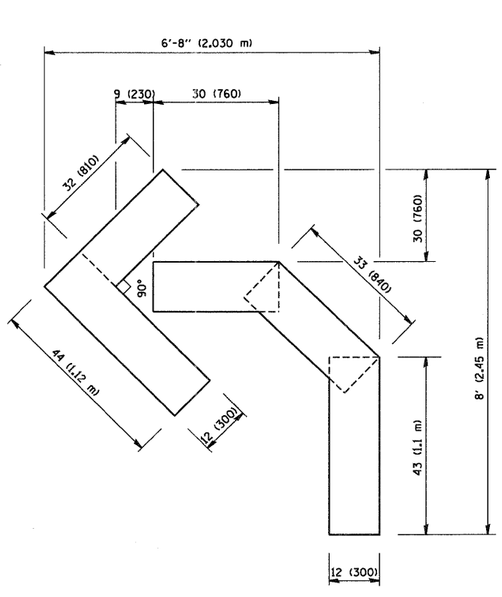
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

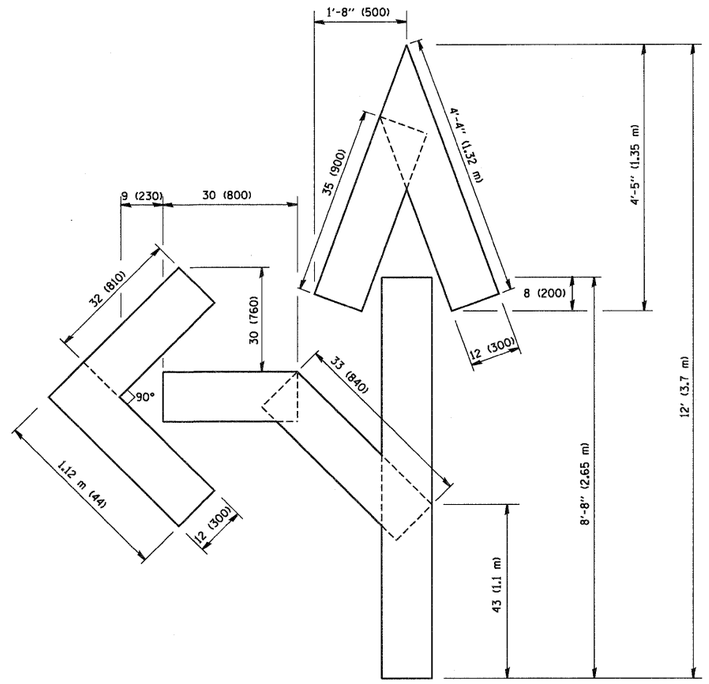
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1B	COOK	101	89
	TC-13	CONTRACT NO. 60M79		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



QUANTITY
4 (100) LINE = 64.1 ft. (19.7 m)
21.1 sq. ft. (1.97 sq. m)



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

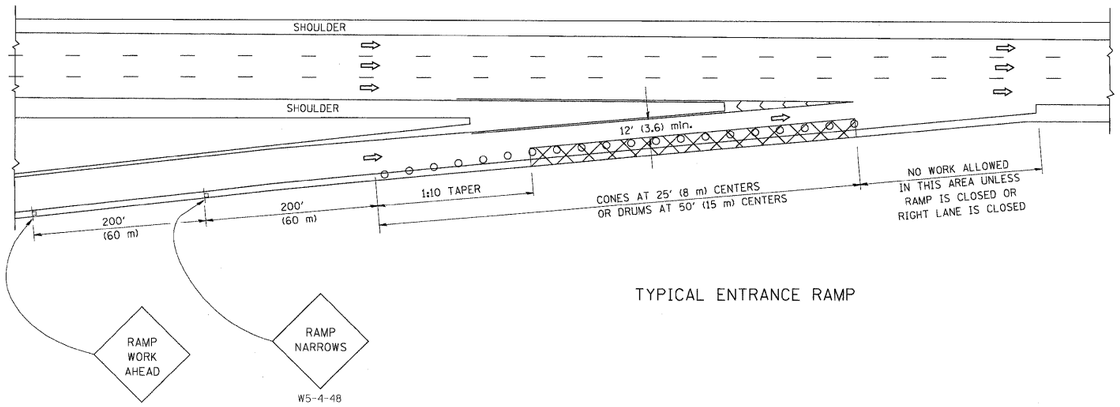


QUANTITY
4 (100) LINE = 82.5 ft. (25.3 m)
27.5 sq. ft. (2.53 sq. m)

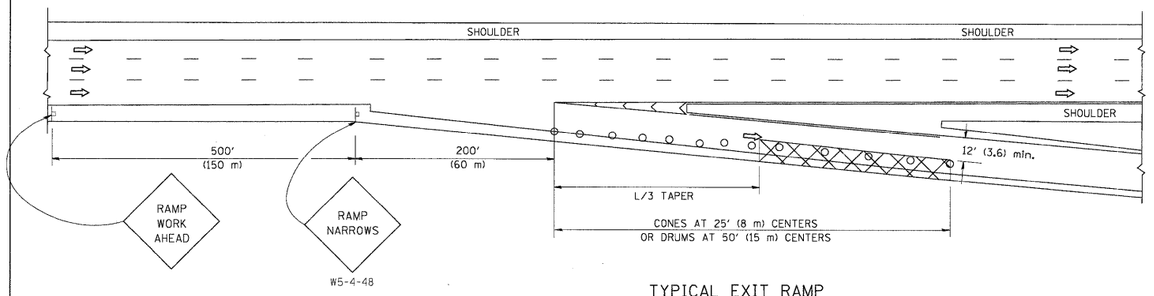
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = W:\diststd\22x34\tc16.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING**	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -T. RAMMACHER 11-04-97			90	1515.1-B	COOK	101	90
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98				TC-16	CONTRACT NO. 60M79		
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

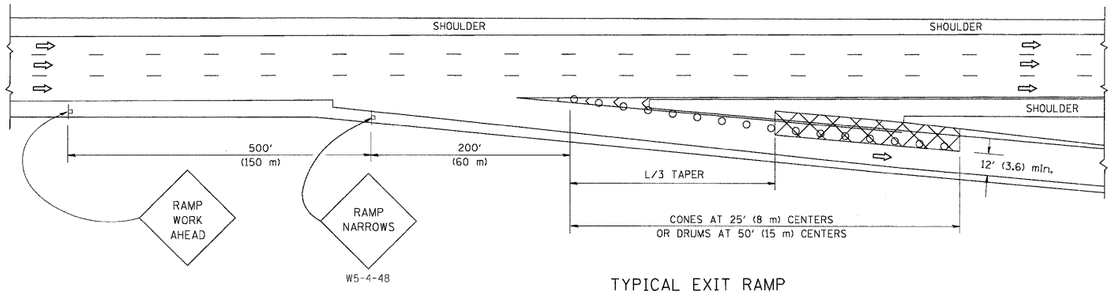
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

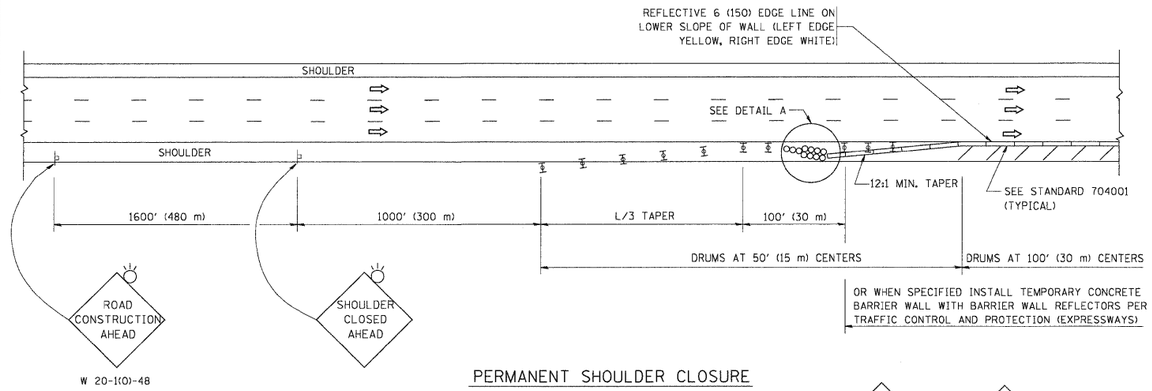
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS	
	METRIC	ENGLISH
45 mph (80 km/h) OR GREATER:	L=0.65(W)(S)	L=(W)(S)

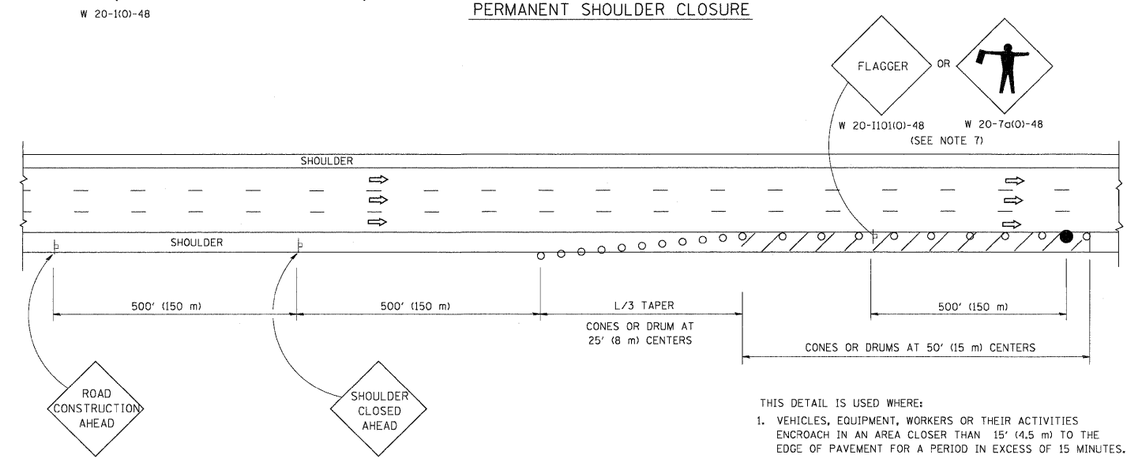
W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)

2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS



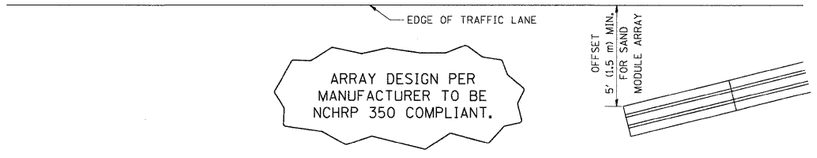
PERMANENT SHOULDER CLOSURE



THIS DETAIL IS USED WHERE:

1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

DAYTIME SHOULDER CLOSURE



DETAIL "A"
IMPACT ATTENTUATOR, TEMPORARY
(SEE NOTE 5)

5. THE IMPACT ATTENTUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
   a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
   b. THE WORK AVTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.

   THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.

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

FILE NAME = W:\diststd\22x34\tc17.dgn	USER NAME = leysa	DESIGNED -	REVISED - 04-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
		DRAWN - D.W.S.	REVISED - J.A.F. 12-06		
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - S.P.B. 01-07		
	PLOT DATE = 1/26/2012	DATE - 11-96	REVISED - S.P.B. 12-09		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	91
	TC-17	CONTRACT NO. 60M79		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

ROUTE MARKERS

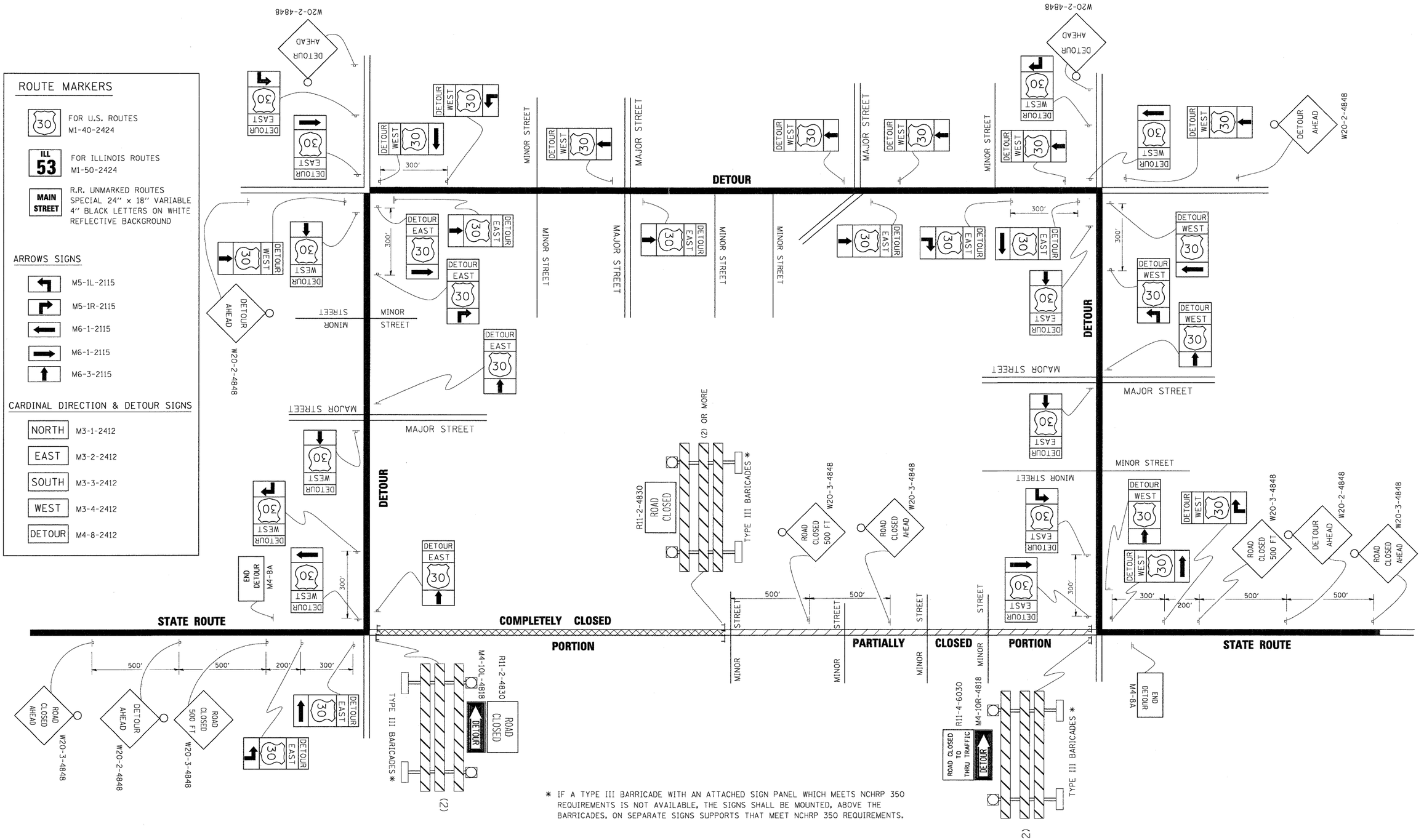
- 30 — FOR U.S. ROUTES M1-40-2424
- ILL 53 — FOR ILLINOIS ROUTES M1-50-2424
- MAIN STREET — R.R. UNMARKED ROUTES SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND

ARROWS SIGNS

- M5-1L-2115
- M5-1R-2115
- M6-1-2115
- M6-1-2115
- M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

- NORTH M3-1-2412
- EAST M3-2-2412
- SOUTH M3-3-2412
- WEST M3-4-2412
- DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

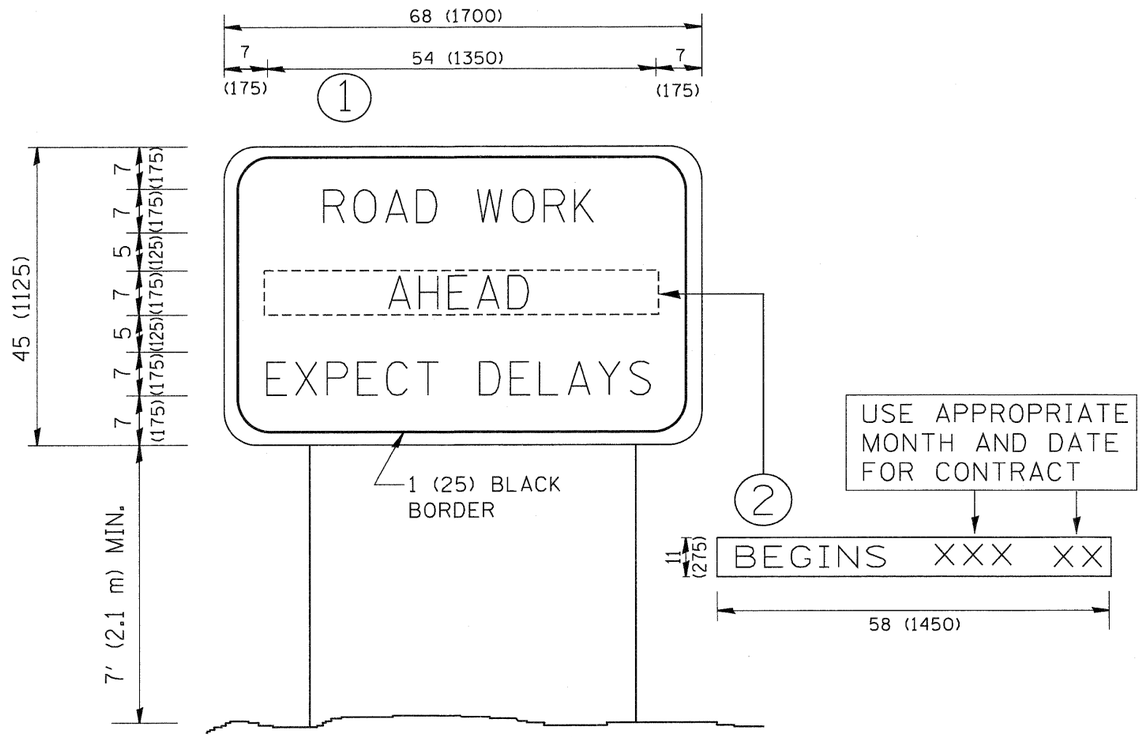
FILE NAME = c:\pw_work\PWIDOT\DRIVAKOSGN\d0128315\tc21.dgn	USER NAME = drivakosgn	DESIGNED -	REVISED - 10-18-02
		DRAWN -	REVISED - R. BORO 09-14-09
	PLOT SCALE = 49.9999 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/14/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	92
	TC-21	CONTRACT NO. 60M79		
FED. ROAD DIST. NO. 1	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.

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

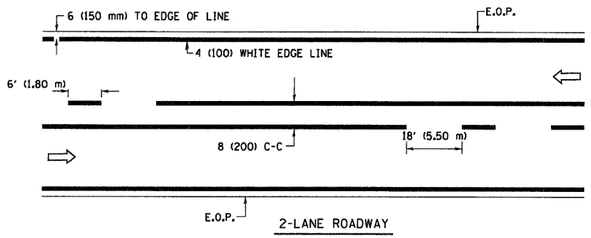
FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

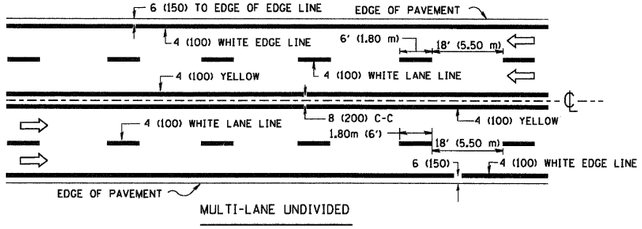
ARTERIAL ROAD INFORMATION SIGN

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

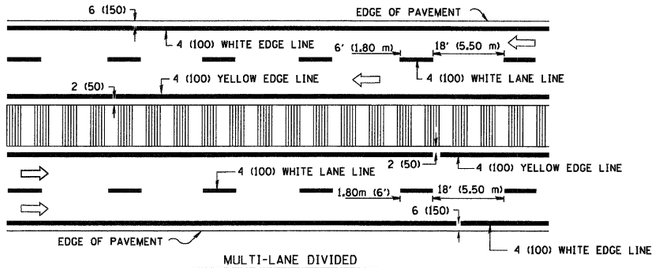
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	93
	TC-22	CONTRACT NO. 60M79		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



2-LANE ROADWAY



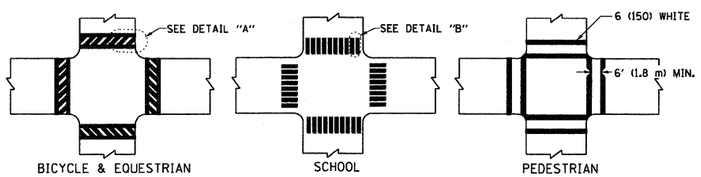
MULTI-LANE UNDIVIDED

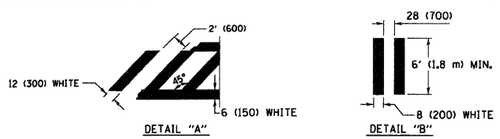


MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

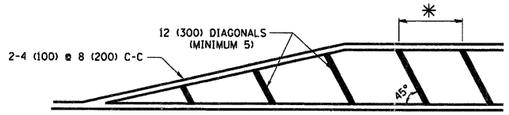
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING





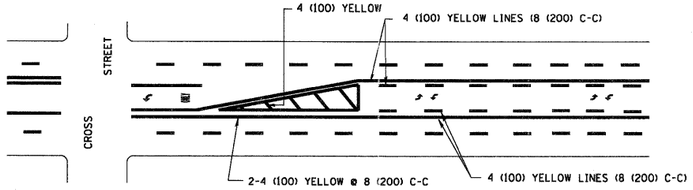
TYPICAL CROSSWALK MARKING



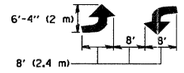
* FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

* DIAGONAL LINE SPACING: 20' (6.1 m) C-C

PAINTED MEDIANS

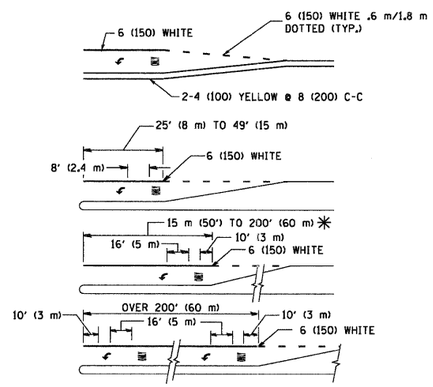


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

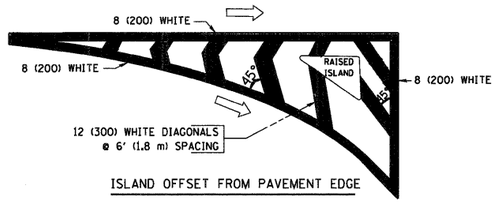


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.8 SQ. FT. (1.47 m^2) ONLY AREA = 22.9 SQ. FT. (2.13 m^2)

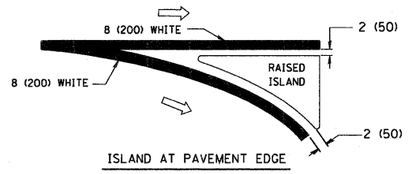
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	8 (200) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	8 (200) C-C
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8) 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' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	6' (1.8 m) LINE WITH 18' (5.50 m) SPACE FOR SKIP-DASH; 8 (200) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE 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° 8 (200) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2'-4" (700) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	8 (200) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 20' (6.1 m) (LESS THAN 30 MPH (50 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33m^2) EACH "X"=54.0 SQ. FT. (5.0 m^2)

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STREET MARKING STANDARDS, PRINTED BY CITY OF CHICAGO, DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC.

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

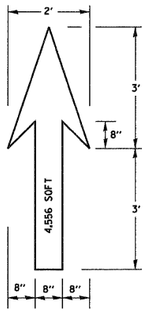
FILE NAME = W:\diststd\22x34\tc24.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED -T. RAMMACHER 12-07-00
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

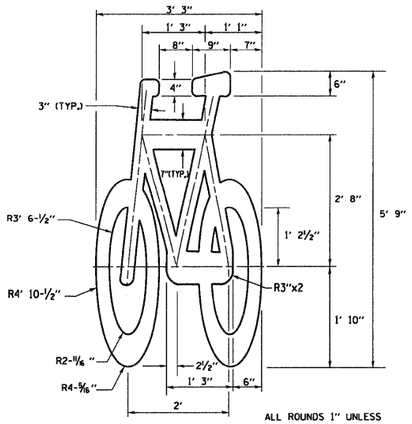
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	94
	TC-24	CONTRACT NO. 60M79		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





BICYCLE
LANE SYMBOL

ALL ROUNDS 1" UNLESS
OTHERWISE NOTED.

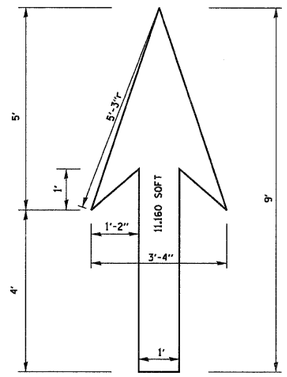
NOTE:

1.) FOR BIKE LANE SYMBOLS ONLY, USE PRE-FORMED THERMOPLASTIC WITH A MINIMUM THICKNESS OF 90 MILS, MINIMUM SKID RESISTANCE VALUE OF 60 BPN, & A MINIMUM INDEX OF REFRACTION OF 1.50.

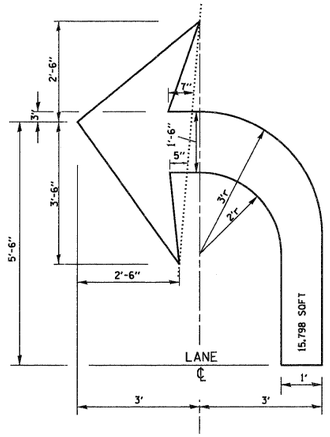
2.) THE RESIDENT ENGINEER SHALL CONTACT MR. BEN GOMBERG AT 312-744-8093 AT LEAST ONE CALENDAR WEEK PRIOR TO INSTALLING BIKE LANE SYMBOLS.

TYPICAL BIKE LANE SYMBOLS
DRAWING #28

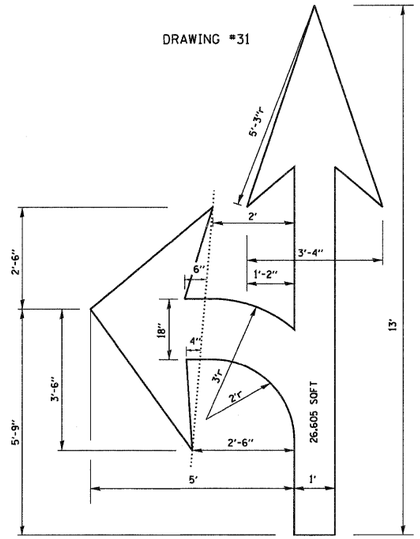
DRAWING #29



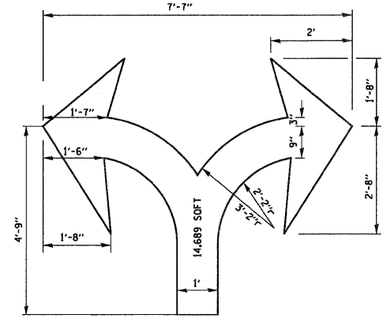
DRAWING #30



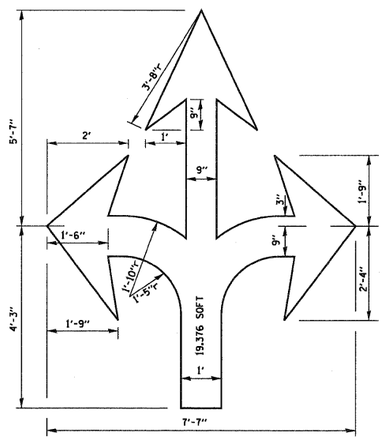
DRAWING #31



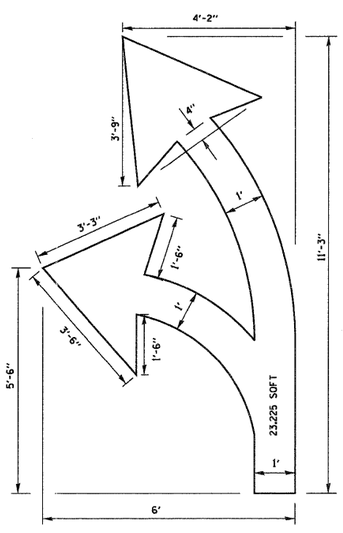
DRAWING #32



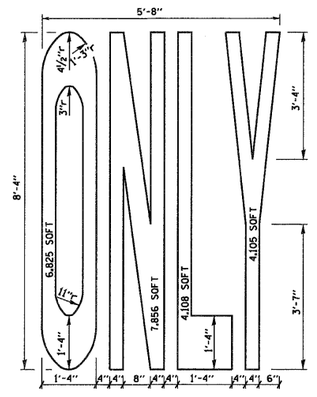
DRAWING #33



DRAWING #34



DRAWING #35



NOTE:

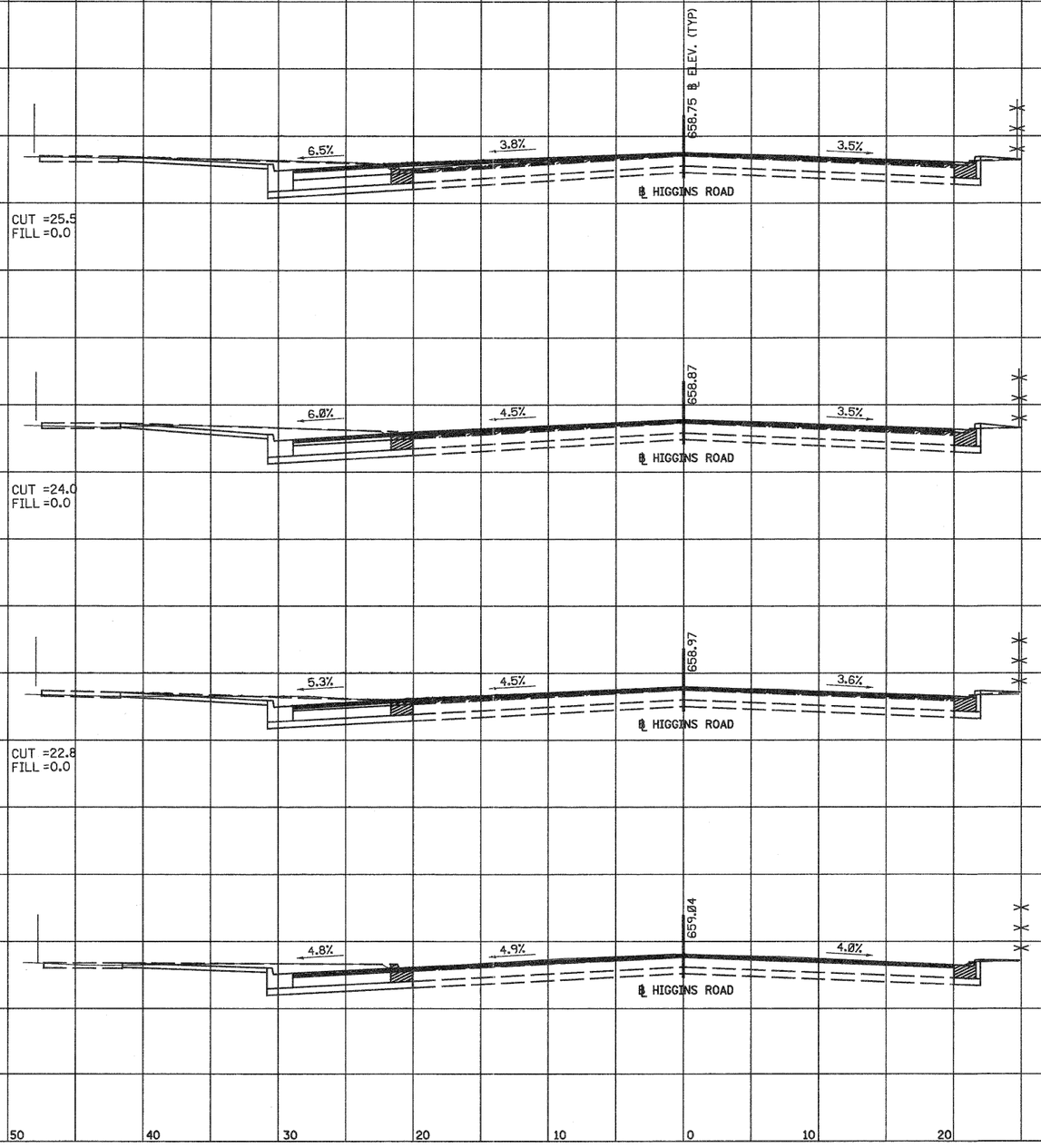
ALL MARKINGS SHALL BE SOLID WHITE UNLESS OTHERWISE NOTED IN THE PLANS

FILE NAME = W:\diststd\22x34\tc24.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED -T. RAMMACHER 12-07-00	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**CITY OF CHICAGO**
		DRAWN -	REVISED -		**TYPICAL PAVEMENT MARKINGS**
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -		SCALE: NONE | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.
	PLOT DATE = 1/4/2008	DATE -	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	94A
	TC-24	CONTRACT NO. 60M79		
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT				

PLAN
SURVEYED
PLOTTED
PLANS CHECKED
NOTE BOOK
NO.
RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
SURVEYED
PLOTTED
PLANS CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
BY
DATE



ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

HIGGINS ROAD
SECTIONS WEST LEG

SCALE: 1"=5' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	95
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

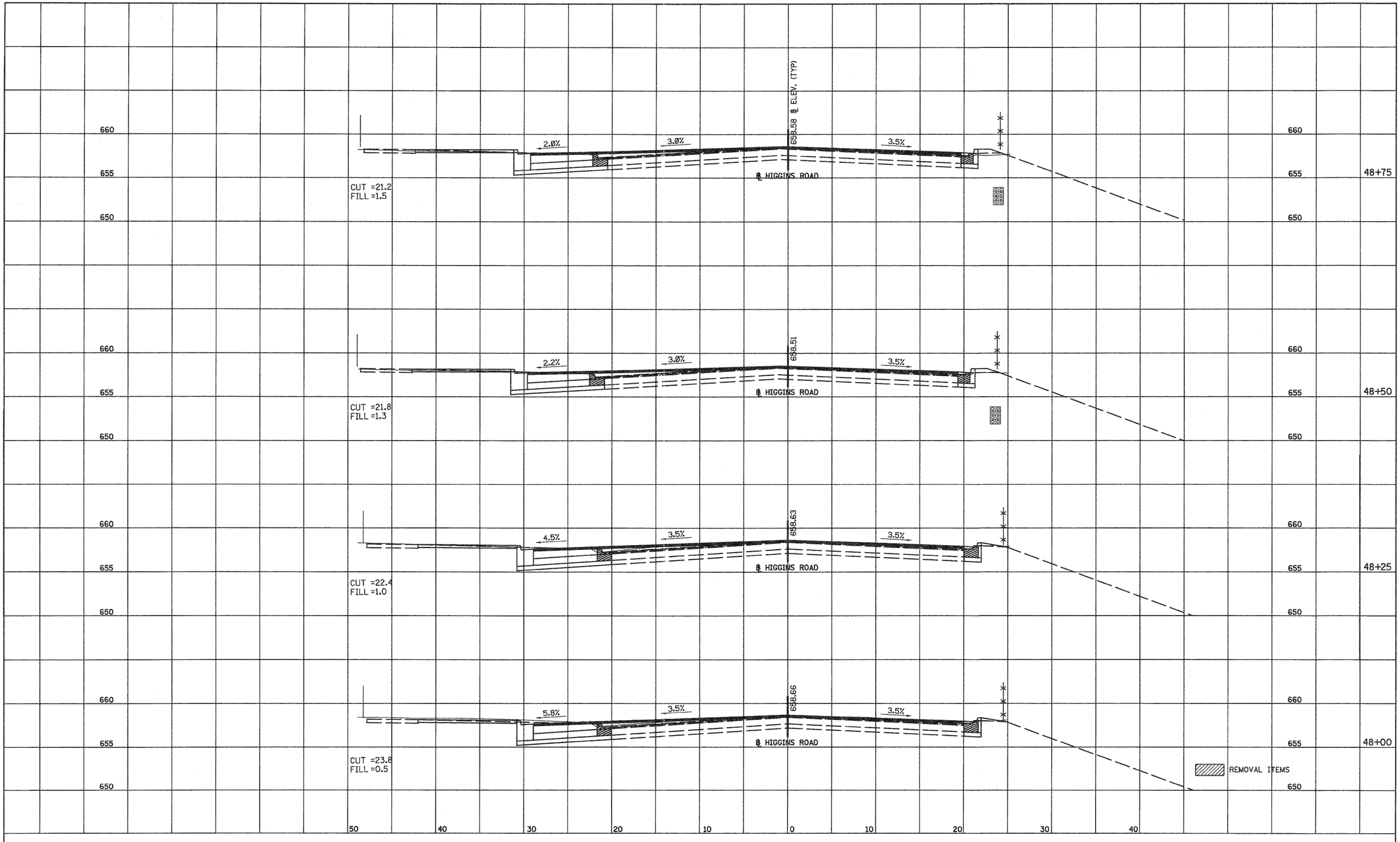
H:\IDOT\2009-246 PTB 153 Item 21\016-1101\Oriole_FinalEngineering\Plan Sheets\95-97 020cxs4lv8.dgn 4:27:01 PM 11/4/2011

PLAN

BY	DATE
SURVEYED	
PLOTTED	
PLANS CHECKED	
R/W CHECKED	
NOTE BOOK	
NO.	
DGN FILE NAME	

PROFILE

BY	DATE
SURVEYED	
PLOTTED	
PLANS CHECKED	
S.M. NOTED	
NOTE BOOK	
NO.	
STRUCTURE NOTATING CHKD	



ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

SCALE: 1"=5' | SHEET NO. OF SHEETS | STA. | TO STA.

HIGGINS ROAD
SECTIONS WEST LEG

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	96
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

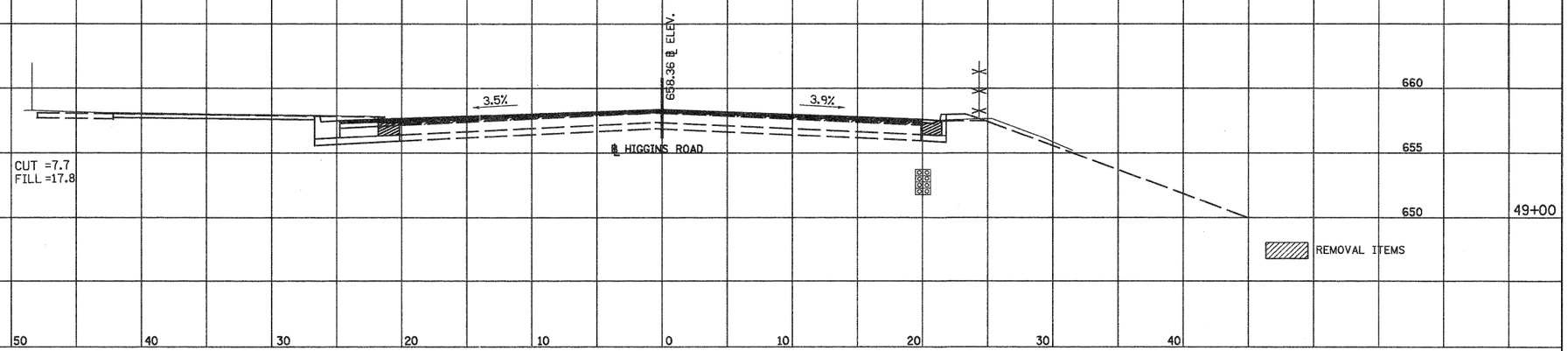
H:\IDOT\2009-246 PTB 153 Item 2\016-1101\Oriole_FinalEngineering\Plan Sheets\95-97 020cxs4lv8.dgn 4:25:55 PM 11/4/2011

PLAN

	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
NOTE BOOK	RT. OF WAY CHECKED	
NO. ____	CADD FILE NAME	

PROFILE

	BY	DATE
SURVEYED		
PLOTTED		
CROSS CHECKED		
NOTE BOOK	S.M. NOTED	
NO. ____	STRUCTURE NOTATIONS CHKD	



ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

SCALE: 1"=5' | SHEET NO. OF SHEETS | STA. | TO STA.

HIGGINS ROAD
SECTIONS WEST LEG

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	97
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

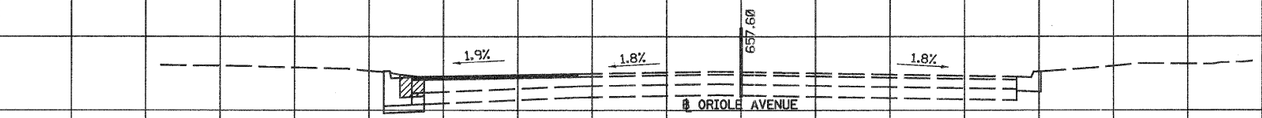
H:\IDOT\2009-246 PTB 153 Item 21\016-1101\Oriole_FinalEngineering\Plan Sheets\95-97 020cxs4lv8.dgn 4:25:19 PM 11/4/2011

PLAN	
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
NOTE BOOK	
NO.	
RT. OF WAY CHECKED	
CADD FILE NAME	

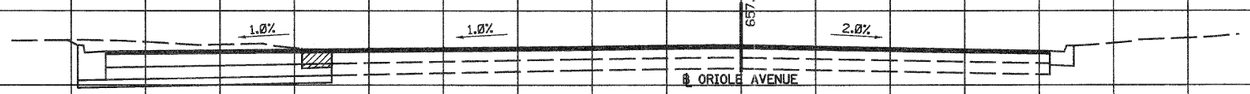
BY	DATE

PROFILE	
SURVEYED	
PLOTTED	
GRADES CHECKED	
NOTE BOOK	
BAL. NOTED	
NO.	
STRUCTURE NOTATNS CHKD	

BY	DATE



CUT =22.9
FILL =0.0



10+25

10+00

REMOVAL ITEMS

50 40 30 20 10 0 10 20 30

ABNA
DESIGN FIRM REG. 184.002117

9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

ORIOLE AVENUE

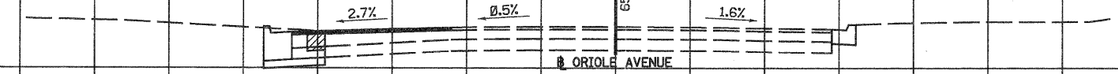
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	98
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

H:\IDOT\2009-246 PTB 153 Item 21\016-1101\Oriole_FinalEngineering\Plan Sheets\98-99 020cxs42v8.dgn 4:32:37 PM 11/4/2011

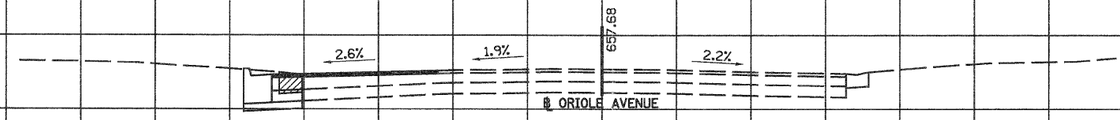
PLAN	
NOTE BOOK	
NO.	

SURVEYED
PLOTTED
ENGINEER CHECKED
R.O.W. CHECKED
CADD FILE NAME

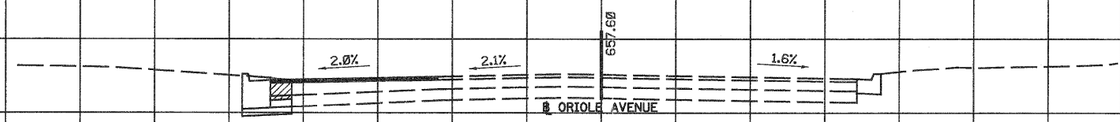
BY | DATE



CUT =7.7
FILL =0.0



CUT =6.7
FILL =0.0



CUT =5.1
FILL =0.0

660 / 655 / 650

50 40 30 20 10 0 10 20 30 40

11+00 | 10+75 | 10+50

REMOVAL ITEMS

PROFILE

SURVEYED	
PLOTTED	
ENGINEER CHECKED	
R.O.W. CHECKED	
STRUCTURE NO(A)THS CHKD	

NOTE BOOK	
NO.	

BY | DATE

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

ORIOLE AVENUE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	99
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

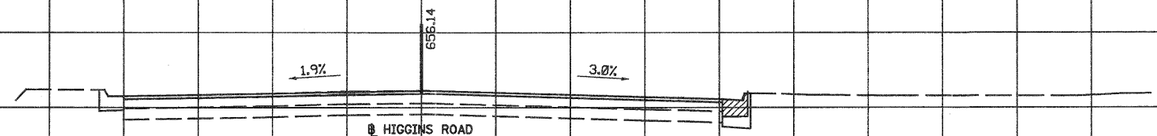
H:\IDOT\2009-246 PTB 153 Item 21\016-1101\Oriole_FinalEngineering\Plan Sheets\98-99 020cxs42v8.dgn 4:32:57 PM 11/4/2011

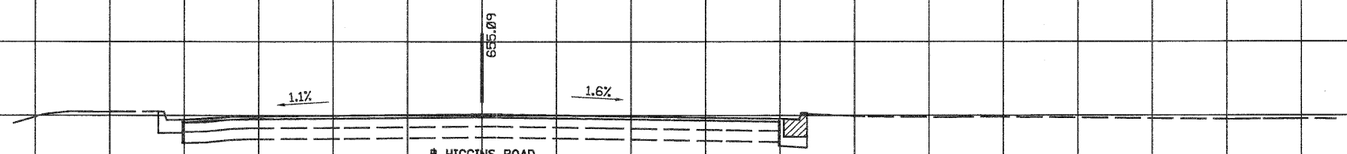
PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NOTE BOOK
NO. ____
CADD FILE NAME
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADE CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO. ____
BY
DATE

660
655
650

CUT =0.0
FILL =0.0





660
655
650
50+75
660
655
650
50+50

REMOVAL ITEMS

50 40 30 20 10 0 10 20 30

ABNA
DESIGN FIRM REG. 184.002117

9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

HIGGINS ROAD
SECTIONS EAST LEG

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	100
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

H:\IDOT\2009-246 PTB 153 Item 21\016-1101\Oriole_FinalEngineering\Plan Sheets\100-101020cxs43v8.dgn 4:40:35 PM 11/4/2011

PLAN

SURVEYED	BY
PLOTTED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
CADD FILE NAME	
NOTE BOOK	
NO.	DATE

PROFILE

SURVEYED	BY
PLOTTED	
PLOTTED CHECKED	
GRADES CHECKED	
B.M. NOTED	
STRUCTURE NO.	
ALIGNMENTS CHKD	
NOTE BOOK	
NO.	DATE

660
655
650

CUT =0.0
FILL =0.0

655.38 ℄ ELEV. (TYP)

2.2%

1.8%

℄ HIGGINS ROAD

660
655
650

51+50

660
655
650

CUT =0.0
FILL =0.0

655.31

2.6%

2.2%

℄ HIGGINS ROAD

660
655
650

51+25

660
655
650

CUT =0.0
FILL =0.0

655.22

2.9%

2.7%

℄ HIGGINS ROAD

660
655
650

51+00

50 40 30 20 10 0 10 20 30 40

REMOVAL ITEMS

ABNA
DESIGN FIRM REG. 184.002117
9901 S. Western Ave.
Chicago, IL 60643
Ph. 773-881-4788
F: 773.239.3728

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORIOLE AVENUE AT I-90
STRUCTURE NO. 016-1101

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

HIGGINS ROAD
SECTIONS EAST LEG

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	101
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

H:\IDOT\2009-246 PTB 153 Item 21\016-1101\Oriole_FinalEngineering\Plan Sheets\100-101020cxs43v8.dgn 4:40:22 PM 11/4/2011