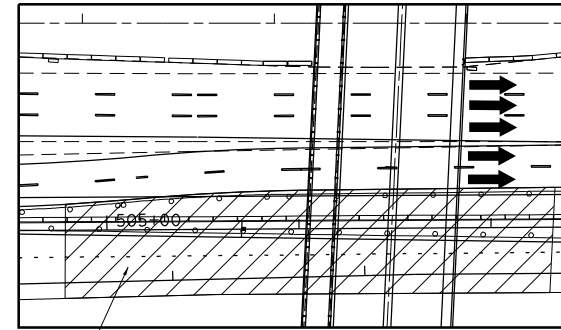
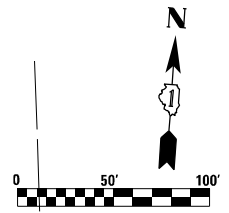
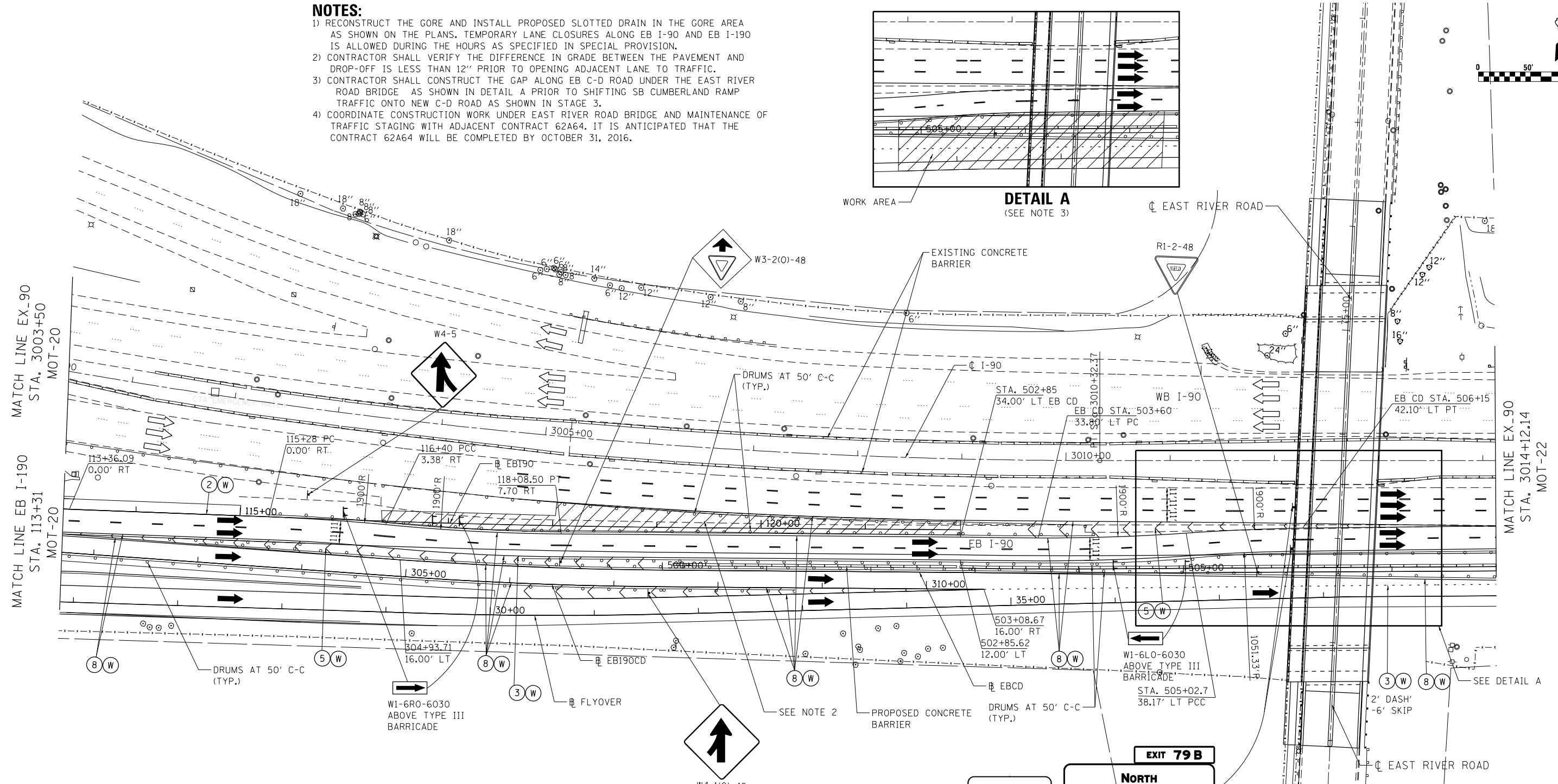


NOTES:

- 1) RECONSTRUCT THE GORE AND INSTALL PROPOSED SLOTTED DRAIN IN THE GORE AREA AS SHOWN ON THE PLANS. TEMPORARY LANE CLOSURES ALONG EB I-90 AND EB I-190 IS ALLOWED DURING THE HOURS AS SPECIFIED IN SPECIAL PROVISION.
- 2) CONTRACTOR SHALL VERIFY THE DIFFERENCE IN GRADE BETWEEN THE PAVEMENT AND DROP-OFF IS LESS THAN 12" PRIOR TO OPENING ADJACENT LANE TO TRAFFIC.
- 3) CONTRACTOR SHALL CONSTRUCT THE GAP ALONG EB C-D ROAD UNDER THE EAST RIVER ROAD BRIDGE AS SHOWN IN DETAIL A PRIOR TO SHIFTING SB CUMBERLAND RAMP TRAFFIC ONTO NEW C-D ROAD AS SHOWN IN STAGE 3.
- 4) COORDINATE CONSTRUCTION WORK UNDER EAST RIVER ROAD BRIDGE AND MAINTENANCE OF TRAFFIC STAGING WITH ADJACENT CONTRACT 62A64. IT IS ANTICIPATED THAT THE CONTRACT 62A64 WILL BE COMPLETED BY OCTOBER 31, 2016.

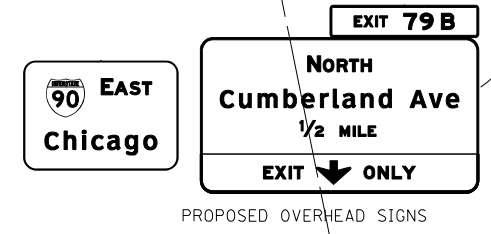


DETAIL A
(SEE NOTE 3)



MAINTENANCE OF TRAFFIC LEGEND

	WORK AREA		BARRICADE, TYPE III, W/ TYPE A BI-DIRECTIONAL FLASHING LIGHT		ARROW BOARD		PVT MK - LINE 5" WHITE		PVT MK - LINE 24" WHITE
	TEMPORARY PAVEMENT		TYPE II BARRICADES OR DRUMS W/ TYPE C STEADY BURN MNO-DIRECTIONAL LIGHT		VERTICAL PANEL		PVT MK - LINE 4" YELLOW		PVT MK - LINE 8" WHITE
	EX. TRAFFIC DIRECTION		TYPE B MONO-DIRECTIONAL FLASHING LIGHT		PROPOSED SIGN		PVT MK - LINE 4" WHITE		TEMP PVT MK (SEE SHT G-03)
	PR. TRAFFIC DIRECTION		TYPE B MONO-DIRECTIONAL FLASHING LIGHT		TEMPORARY CONCRETE BARRIER		PVT MK - LINE 6" WHITE		WET REF TEM TAPE T3 (SEE SHT G-03)
			TYPE B MONO-DIRECTIONAL FLASHING LIGHT				PVT MK - LINE 12"		WET REF TEM TAPE T3 (SEE SHT G-03)
							PVT MK - LTRS & SYMB		



FILE NAME: \\exp\proj\1117R-1(13)\MOT-3-02.dgn

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Chicago, IL
BUILDINGS EARTH & ENVIRONMENT ENERGY
INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY

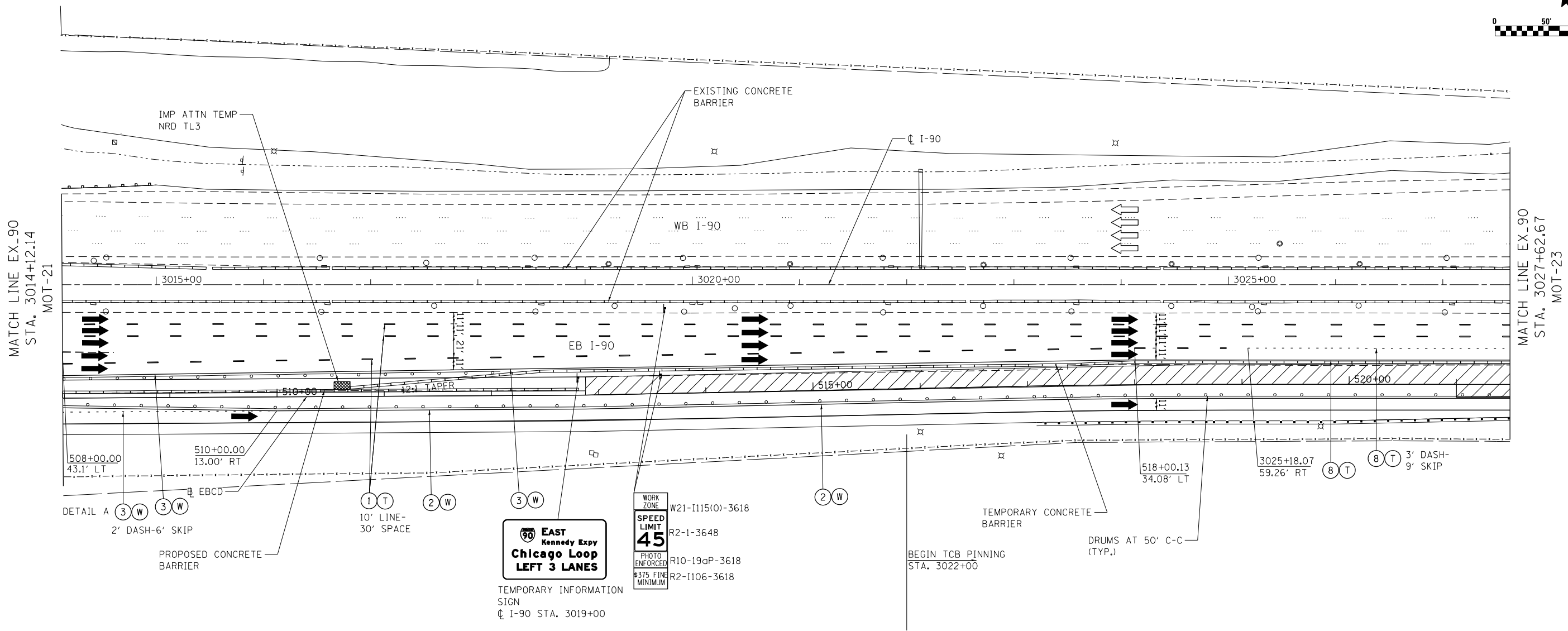
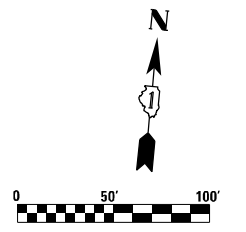
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PLOT SCALE = 2.0000' / in.	DRAWN - MM	REVISED -
PLOT DATE = 4/28/2016	CHECKED - KA	REVISED -
	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL			
STAGE 3 EB			
SCALE:	SHEET	OF SHEETS	STA. 3003+38.74 TO STA. 3014+12.14

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	101
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

MOT-21



MAINTENANCE OF TRAFFIC LEGEND

	WORK AREA		BARRICADE, TYPE III, W/ TYPE A BI-DIRECTIONAL FLASHING LIGHT		ARROW BOARD		PVT MK - LINE 5" WHITE		PVT MK - LINE 24" WHITE
	TEMPORARY PAVEMENT		TYPE II BARRICADES OR DRUMS W/ TYPE C STEADY BURN MONO-DIRECTIONAL LIGHT		VERTICAL PANEL		PVT MK - LINE 4" YELLOW		PVT MK - LINE 8" WHITE
	EX. TRAFFIC DIRECTION		TYPE B MONO-DIRECTIONAL FLASHING LIGHT		PROPOSED SIGN		PVT MK - LINE 4" WHITE		TEMP PVT MK (SEE SHT G-03)
	PR. TRAFFIC DIRECTION				TEMPORARY CONCRETE BARRIER		PVT MK - LINE 6" WHITE		WET REF TEM TAPE T3 (SEE SHT G-03)
							PVT MK - LINE 12"		
							PVT MK - LTRS & SYMB		

NOTE:
 1) INSTALL TEMPORARY CONCRETE BARRIER AND SECURE IT TO THE PAVEMENT USING THREE ANCHORING PINS ON TRAFFIC SIDE OF BARRIER ACCORDING TO ILLINOIS HIGHWAY STANDARD 704001.

FILE NAME: I:\MOT-3-03.dgn



USER NAME = mohamma	DESIGNED - MM	REVISED -
	DRAWN - MM	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - KA	REVISED -
PLOT DATE = 4/28/2016	DATE - 05/06/2016	REVISED -

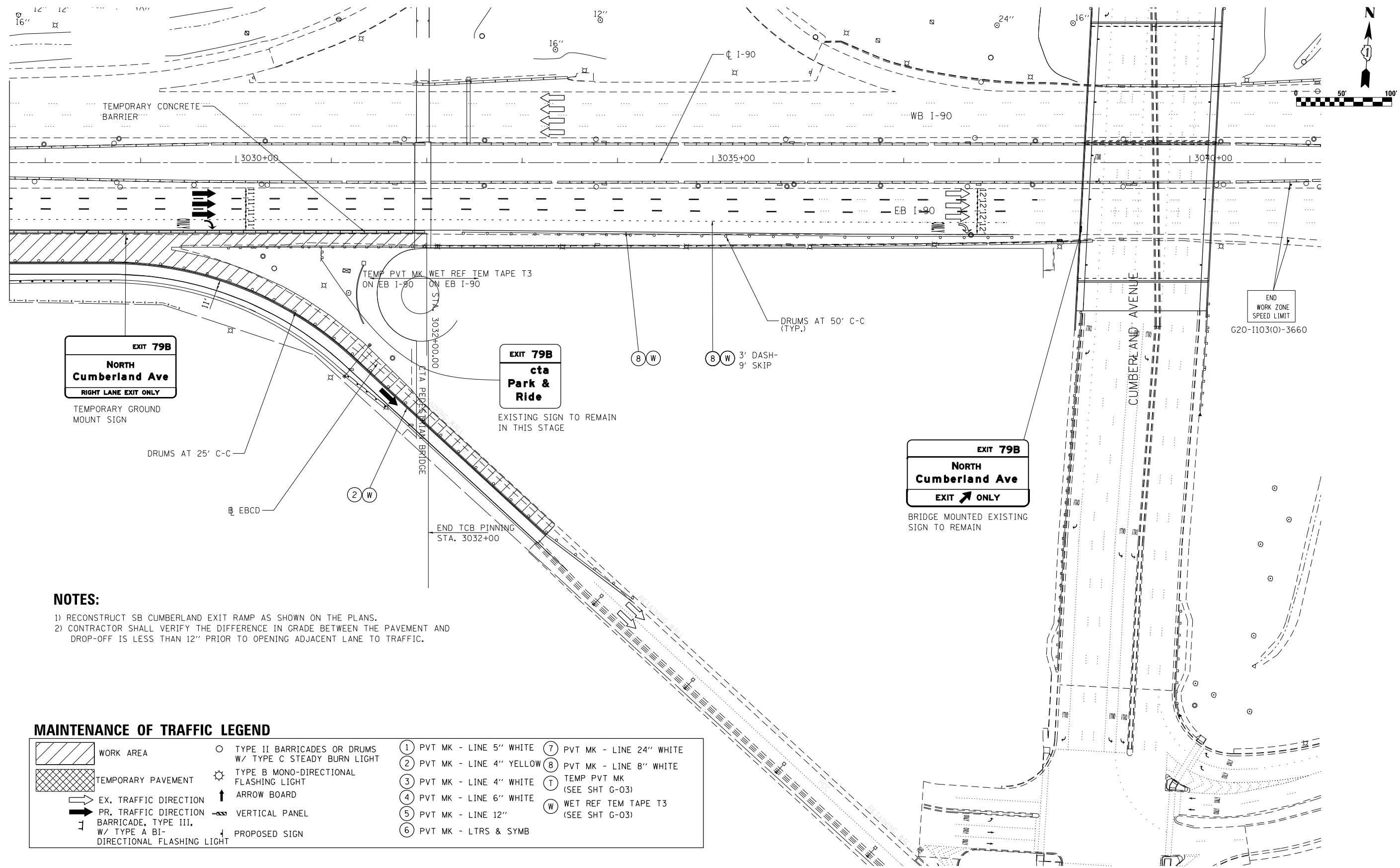
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL			
STAGE 3 EB			
SCALE:	SHEET	OF SHEETS	STA. 3014+12.14 TO STA. 3027+62.67

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	102
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

MOT-22

MATCH LINE EX-90
STA. 3027+62.67
MOT-22



NOTES:

- 1) RECONSTRUCT SB CUMBERLAND EXIT RAMP AS SHOWN ON THE PLANS.
- 2) CONTRACTOR SHALL VERIFY THE DIFFERENCE IN GRADE BETWEEN THE PAVEMENT AND DROP-OFF IS LESS THAN 12" PRIOR TO OPENING ADJACENT LANE TO TRAFFIC.

MAINTENANCE OF TRAFFIC LEGEND

WORK AREA	TYPE II BARRICADES OR DRUMS W/ TYPE C STEADY BURN LIGHT	PVT MK - LINE 5" WHITE	PVT MK - LINE 24" WHITE
TEMPORARY PAVEMENT	TYPE B MONO-DIRECTIONAL FLASHING LIGHT	PVT MK - LINE 4" YELLOW	PVT MK - LINE 8" WHITE
EX. TRAFFIC DIRECTION	ARROW BOARD	PVT MK - LINE 4" WHITE	TEMP PVT MK (SEE SHT G-03)
PR. TRAFFIC DIRECTION	VERTICAL PANEL	PVT MK - LINE 6" WHITE	WET REF TEM TAPE T3 (SEE SHT G-03)
BARRICADE, TYPE III, W/ TYPE A BI-DIRECTIONAL FLASHING LIGHT	PROPOSED SIGN	PVT MK - LINE 12"	
		PVT MK - LTRS & SYMB	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
STAGE 3 EB

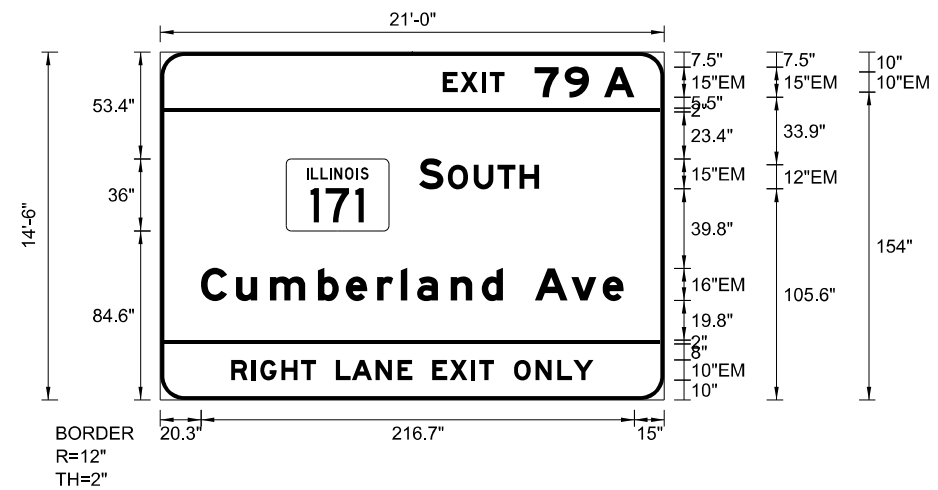
SCALE: SHEET OF SHEETS STA. 3027+62.67 TO STA. 3041+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	103
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

MOT-23

USER NAME = mohamma	DESIGNED - MM	REVISED -
PLOT SCALE = 2.0000' / in.	DRAWN - MM	REVISED -
PLOT DATE = 4/28/2016	CHECKED - KA	REVISED -
	DATE - 05/06/2016	REVISED -

SIGN DETAIL
1:100



SIGN NUMBER	TEMP SIGN 1
WIDTH x HGHT.	21'-0" x 14'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: GreenWhite
LEGEND/BORDER	TYPE: Reflective COLOR: WhiteWhiteBlack

SYMBOL	ROT	X	Y	WID	HT
M1-H100A-3-42-2010	0	62.9	84.6	48	36
	0	0	0	252	30

LETTER POSITIONS (X)																				LENGTH	SERIES/SIZE		
E	X	I	T	7	9	A															95.8	EM 2000 10,15	
141.3	150.1	160.9	164.7	187.1	202.2	221.9																	
S	O	U	T	H																	60.1	EM 2000 15,12	
129.3	143.8	156.7	168.6	179.7																			
C	u	m	b	e	r	l	a	n	d		A	v	e								211.4	EM 2000 16,12	
20.3	37.8	54.7	78.7	92.8	108.3	120.2	128.3	145.3	160.8	171.4	187.4	205.6	221.1										
R	I	G	H	T		L	A	N	E		E	X	I	T		O	N	L	Y		181.2	EM 2000 10	
35.4	45.6	50	60.5	70.4	77.8	87.8	95.8	107.7	118.6	126	136	144.8	155.6	159.4	166.8	176.8	187.6	198.5	206.5				

FILE NAME: ...D:\2016\2016-01-11-MOT-sign-panel-01.dgn



USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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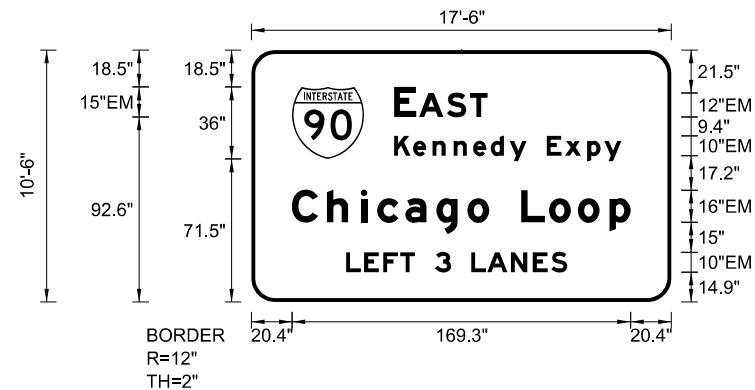
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY INFORMATION SIGNS			
SCALE: 1" = NTS	SHEET 1 OF 4 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	104
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

MOT-SGN-01

SIGN DETAIL
1:100



Panel Style: guide_exp_advance_b.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_exp_advance_b.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	TEMP SIGN 4
WIDTH x HGHT.	17'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: WhiteWhite

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	20.4	71.5	36	36

LETTER POSITIONS (X)												LENGTH	SERIESSIZE		
E	A	S	T											EM 2000	
71.4	83.9	97.8	109.3											46.8	15,12
K	e	n	n	e	d	y		E	x	p	y				EM 2000
71.4	80.9	90.6	101.2	110.9	119.7	129.2	137.7	147.7	156.9	168	176.6			113.7	107.5
C	h	i	c	a	g	o		L	o	o	p				EM 2000
20.4	37.8	54.8	62.9	77	92.5	108	118.9	134.9	148.8	163.2	179.1			169.3	1612
L	E	F	T		3			L	A	N	E	S			EM 2000
47.4	56.4	65.9	74.4	81.8	91.8	99.9	109.9	117.9	129.8	140.7	149.9			110.6	10

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USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.00' / 1in.	CHECKED - LLS	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INFORMATION SIGNS			
SCALE: 1" = NTS	SHEET 4 OF 4 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	107
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

MOT-SGN-04

EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. THE WORK DESCRIBED ON THESE DRAWINGS IS AN INTEGRAL PART OF THE STORM WATER POLLUTION PREVENTION PLAN USED TO OBTAIN A NPDES PERMIT FROM IEPA FOR THE CONSTRUCTION OF THIS PROJECT. FULL COMPLIANCE WITH ALL TERMS OF THE NPDES PERMIT MUST BE STRICTLY ADHERED TO.
2. THE PURPOSE OF THE EROSION AND SEDIMENT CONTROL MEASURES INCLUDED FOR THIS PROJECT IS TO LIMIT THE SEDIMENT POLLUTION IMPACT OF ANY STORM WATER DISCHARGES THAT ORIGINATE ON THIS SITE OR OFF-SITE FLOWS THAT FLOW OVER THE DISTURBED AREAS ON DOWNSTREAM AREAS.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SEDIMENT TRANSPORT OFF THE SITE IS REDUCED BY A COMBINATION OF MINIMIZATION OF EROSION AT THE SOURCE AND INSTALLATION OF SPECIFIC MEASURES TO CONTROL OR REDUCE THE TRANSPORT OF SEDIMENT, A COPY OF THE EROSION AND SEDIMENT CONTROL SCHEDULE BEING IMPLEMENTED BY THE CONTRACTOR WILL BE ON THE CONSTRUCTION SITE AT ALL TIMES.
4. TO THE MAXIMUM EXTENT POSSIBLE, ALL FLOWS ORIGINATING OFF THE CONSTRUCTION SITE WILL BE DIVERTED AROUND DISTURBED AREAS OR WILL NOT BE CONVEYED THROUGH THE SITE IN A MANNER THAT UNTREATED ON-SITE RUNOFF DOES NOT MIX WITH THE OFF-SITE RUNOFF.
5. ALL RUNOFF ORIGINATING ON DISTURBED AREAS ASSOCIATED WITH THIS PROJECT WILL PASS THROUGH ONE OR MORE MEASURES THAT WILL REDUCE OVERLAND FLOW RATES AS WELL AS CURTAIN ON AND OFF-SITE SEDIMENT IMPACTS OF THE CONSTRUCTION ACTIVITY.
6. ALL PERMANENT SEDIMENT BASINS, PERMANENT STORM WATER CONTROL MEASURES, AND RUNOFF CONTROL MEASURES REQUIRED TO KEEP OFF-SITE RUNOFF FROM FLOWING OVER THE CONSTRUCTION AREA WILL BE INSTALLED BEFORE CLEARING AND STRIPPING OF THE SITE PROCEEDS. PRIOR TO PROCEEDING WITH GENERAL EARTHWORK ON A PROJECT THE CONTRACTOR WILL OBTAIN APPROVAL OF HIS PROPOSED EARTHWORK AND STABILIZATION SCHEDULE.
7. A MAXIMUM OF 10 ACRES MAY BE IN SOME STAGE OF GRADING AT A SINGLE TIME. ADDITIONAL AREAS (UP TO 10 ACRES) MAY BE CLEARED BUT WILL NOT BE STRIPPED OF VEGETATION UNTIL THE GRADED AREAS HAVE BEEN PROTECTED FROM EROSION THROUGH INSTALLATION OF EITHER TEMPORARY OR PERMANENT MEASURES. WHENEVER POSSIBLE, THE GRADING WILL BE COMPLETED TO THE DESIGN GRADE AND THE PERMANENT VEGETATION PLAN IMPLEMENTED PRIOR TO STARTING GRADING ACTIVITIES ON THE NEXT SITE.
 - (A) WHEN BALANCING EARTHWORK (BORROW FROM A CUT USED AS FILL AT A LOCATION DISTANT FROM THE CUT) THE ENGINEER WILL CONSIDER ALLOWING MORE THAN 10 ACRES OF GRADING AT A TIME. THE 10 ACRE LIMITATION DOES NOT INCLUDE HAUL ROADS, BRIDGE CONSTRUCTION WORK AREAS NOR STORAGE AREAS.
 - (B) VARIATIONS TO THE ABOVE MAY BE CONSIDERED BY THE ENGINEER UNDER ALL THE FOLLOWING CONDITIONS:
 - IF THE CONTRACTOR FALLS BEHIND SCHEDULE THROUGH NO FAULT OF HIS OWN.
 - THE CONTRACTOR MUST PRESENT A SCHEDULE DEMONSTRATING THE NEED FOR SUCH VARIATION IN ORDER TO COMPLETE WORK ON TIME.
8. DISTURBED AREAS ARE TO BE PROTECTED FROM EROSION IN A TIMELY MANNER. UPON COMPLETION OF GRADING OR CONSTRUCTION, THE AREA WILL BE STABILIZED (USING PERMANENT MEASURES WHEN POSSIBLE) WITHIN 1 CALENDAR DAY. TEMPORARY STABILIZATION THROUGH USE OF GROUND COVER, MULCHING, OR OTHER APPROVED MEASURES WILL BE INSTALLED WHENEVER SITE DEVELOPMENT WORK, GRADING OR OTHER EARTH DISTURBING ACTIVITIES CEASE TO BE CONTINUOUS FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. THE 7/14 DAY REQUIREMENT IS TAKEN TO MEAN THAT THE STABILIZATION OPERATION IS COMPLETE OR NEARING COMPLETION IN THE DEFINED TIME.
9. STABILIZATION OF CUT OR FILL SLOPES WITH PERMANENT EROSION CONTROL MEASURES IS REQUIRED WHENEVER THE CUT OR FILL ACTIVITY REACHES 10 FEET VERTICALLY OR THE FINISHED SLOPE HEIGHT EQUALS 30 FEET, WHICHEVER IS MORE RESTRICTIVE. ONCE THE STABILIZATION MEASURES ARE INSTALLED, THE PLACEMENT OF FILL EXCAVATION ACTIVITIES ARE ALLOWED TO PROCEED. TEMPORARY STABILIZATION OF THE CUT OR FILL SLOPES USING MULCH METHOD 2 WILL BE INSTALLED WITHIN 1 CALENDAR DAY WHEN ACTIVITY ON THE CUT OR FILL SLOPE CEASE TO BE CONTINUOUS FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
10. THE CONTRACTOR SHALL DESIGNATE ONE OF HIS EMPLOYEES AS RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN ON ALL DISTURBED AREAS. THIS PERSON IS TO BE KNOWLEDGEABLE ABOUT INSTALLATION AND MAINTENANCE OF THE REQUIRED MEASURES. THIS EMPLOYEE IS TO HAVE THE AUTHORITY TO CARRY OUT THE IMPLEMENTATION OF ANY INSTRUCTIONS CONCERNING THE EROSION AND SEDIMENT CONTROL PLAN GIVEN BY THE ENGINEER. ALL MEASURES WILL BE INSPECTED BY THIS INDIVIDUAL AND THE ENGINEER ON A REGULAR BASIS (AT LEAST ONCE EVERY 7 DAYS) AND AFTER RAINFALL EVENTS GREATER THAN 0.5 IN. OR EQUIVALENT SNOWFALL. DURING THE WINTER MONTHS, EROSION CONTROL MEASURES WILL ALSO BE INSPECTED AFTER SIGNIFICANT SNOW MELT EVENTS. INSPECTION MAY BE REDUCED TO ONCE PER MONTH WHEN CONSTRUCTION ACTIVITIES HAVE CEASED DUE TO FROZEN CONDITIONS.
11. SEDIMENT TRAPS, SEDIMENT BASINS, DITCHES, SEDIMENT CONTROL, SILT FENCE, STONE OUTLET STRUCTURES, EARTH BERMS, ETC. SHALL BE INSPECTED REGULARLY AND MAINTAINED DURING THE CONSTRUCTION SEASON AS WELL AS THE WINTER MONTHS AND OTHER TIMES WHEN THE PROJECT IS CLOSED DOWN. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. ALL SEDIMENTS SHALL BE REMOVED TO AN APPROVED SITE. STONE OUTLET STRUCTURES SHALL HAVE SEDIMENT REMOVED WHEN IT REACHED 50% THE HEIGHT OF THE CONTROL DEVICE. THESE SPOILS WILL BE REMOVED TO AN APPROVED SITE.
12. SALVAGED TOPSOIL SHALL BE PLACED ON WELL DRAINED LAND AWAY FROM INTERMITTENT AND LIVE STREAMS OR WETLANDS WITH THE APPROPRIATE RUNOFF CONTROL AND SEDIMENT CONTROL MEASURES INSTALLED AROUND THE STORAGE SITE, AND STABILIZED IMMEDIATELY AFTER FINAL SHAPING OF THE PILE IN ACCORDANCE WITH MULCH, METHOD 2. THE CONTRACTOR WILL PROVIDE AN ADEQUATE QUANTITY OF SILT FENCE TO CONTROL THE PERIMETER OF THE STOCKPILE.
13. MATERIAL EXCAVATED FOR THE CONSTRUCTION OR CLEANOUT OF SEDIMENT TRAPS OR SEDIMENT BASINS SHALL NOT BE STOCKPILED IN (THE VICINITY OF) THE TRAP OR BASIN. IT WILL EITHER BE PLACED IN AN EMBANKMENT OR WASTED AS DIRECTED BY THE ENGINEER.
14. EXCAVATION TO BE USED FOR EMBANKMENTS SHALL NOT BE STOCKPILED UNLESS PERIMETER CONTROLS ARE UTILIZED. WHEN THIS MATERIAL IS STOCKPILED FOR THE CONVENIENCE OF THE CONTRACTOR THE COST OF THE CONTROLS ARE BORNE BY THE CONTRACTOR. IF THE MATERIAL IS STOCKPILED AT THE DIRECTION OF THE ENGINEER THE DEPARTMENT WILL ASSUME THE COST OF THE CONTROLS.
15. SEDIMENT LADEN DEWATERING DISCHARGE MUST BE DIRECTED TO AN APPROVED SEDIMENT TRAPPING MEASURE PRIOR TO RELEASE FROM THE SITE.
16. WHEN THE CONTRACTOR REQUESTS A CHANGE TO POSTPONE COMPLETION OF THE EXCAVATION OF A SPECIFIC AREA AS A CONTINUOUS OPERATION AND PLACING THE TOPSOIL AS DEFINED IN THE STANDARD SPECIFICATIONS, THE ENGINEER MAY ALLOW THE CONTRACTOR TO STABILIZE THE AREA USING TEMPORARY STABILIZATION WITH STRAW MULCH PROVIDING THE FOLLOWING CONDITIONS ARE MET:
 - (A) ALL AREAS BEING STABILIZED ARE 3:1 SLOPES OR FLATTER.
 - (B) THE CONTRACTOR BEARS THE COST OF PREPARING THE SEED BED AND STABILIZING THE AREA WITH TEMPORARY STABILIZATION STRAW MULCH.
 - (C) ALL REQUIRED SEDIMENT CONTROL MEASURES FOR THE SECTION OF ROAD IN QUESTION HAVE BEEN INSTALLED AND ARE BEING MAINTAINED.
17. SEEDING USAGE
 - CLASS 2A SALT TOLERANT ROADSIDE MIX USED FOR NEW CONSTRUCTION OF LIMITED ACCESS ROUTES INTENDED TO BE MOWED BY IDOT.
 - SODDING SALT TOLERANT, USED IN AREAS ADJACENT TO OTHER AREAS REQUIRING A HIGH ORDER OF APPEARANCE INTENDED TO BE MOWED BY SOMEONE OTHER THAN IDOT.
 - TEMPORARY EROSION CONTROL SEEDING USED ON SHORT TERM TEMPORARY SEEDING.
18. TOP SOIL PLACEMENT: TOPSOIL WILL NOT BE PLACED AT AREAS COMPLETED WHERE FURTHER CONSTRUCTION WILL BE DONE AS PART OF THIS CONTRACT.
19. SEDIMENT CONTROL DRAINAGE STRUCTURE INLET FILTER SHALL BE INSTALLED AND MAINTAINED AT EACH EXISTING AND PROPOSED INLET WITHIN THE PROJECT LIMITS.
20. INLET AND PIPE PROTECTION: INSPECT REGULARLY AND AFTER EVERY STORM. MAKE REPAIRS AS NECESSARY TO ENSURE THAT THE MEASURE IS IN GOOD WORKING ORDER. CLEAN OR REMOVE AND REPLACE THE FILTER FABRIC IF IT BECOMES CLOGGED. WORK IS INCLUDED IN COST OF INLET AND PIPE PROTECTION. INLET AND PIPE PROTECTION SHALL BE COMPRISED OF DITCH CHECKS, TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET, STRAW BALES AND SILT FENCE SHALL NOT BE USED AS INLET AND PIPE PROTECTION.
21. SILT FENCE IS NOT REQUIRED WHERE THE PERIMETER IS HIGHER THAN THE WORK ZONE, AND SILT FENCE SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW, OR ACROSS CONTOURS WITHOUT J-HOOKS (HIGHWAY STANDARD SHEET 280001). IN AREAS OF CONCENTRATED FLOW, TEMPORARY DITCH CHECKS ARE A SUITABLE ALTERNATIVE IN PLACE OF SILT FENCE.
22. PORTABLE TOILETS SHALL BE PLACED AWAY FROM INLETS AND WATER COURSES.
23. THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE, USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II.G.1 AND 2 OF THE SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
24. TREE PROTECTION FENCING SHALL BE ERECTED AT THE LOCATIONS AS SPECIFIED ON THE APPROVED PLANS PRIOR TO ANY LAND CLEARING, GRUBBING, GRADING OR EARTH MOVING ACTIVITIES.
25. THE CONTRACTOR SHOULD PROVIDE TO THE RESIDENT ENGINEER A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THIS IS IMPORTANT WHERE NEW STORM SEWER CONNECTS TO EXISTING CULVERTS. THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS, ESPECIALLY WHEN RAIN IS FORECASTED, SO THAT FLOW WILL NOT ERODE. LACK OF APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.
26. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.
27. EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE RESIDENT ENGINEER.
28. ALL WORK ASSOCIATED WITH INSTALLATION AND MAINTENANCE OF STABILIZED CONSTRUCTION ENTRANCES, AND CONCRETE WASHOUTS SHALL BE INCLUDED WITH PAY ITEM STABILIZED CONSTRUCTION ENTRANCE. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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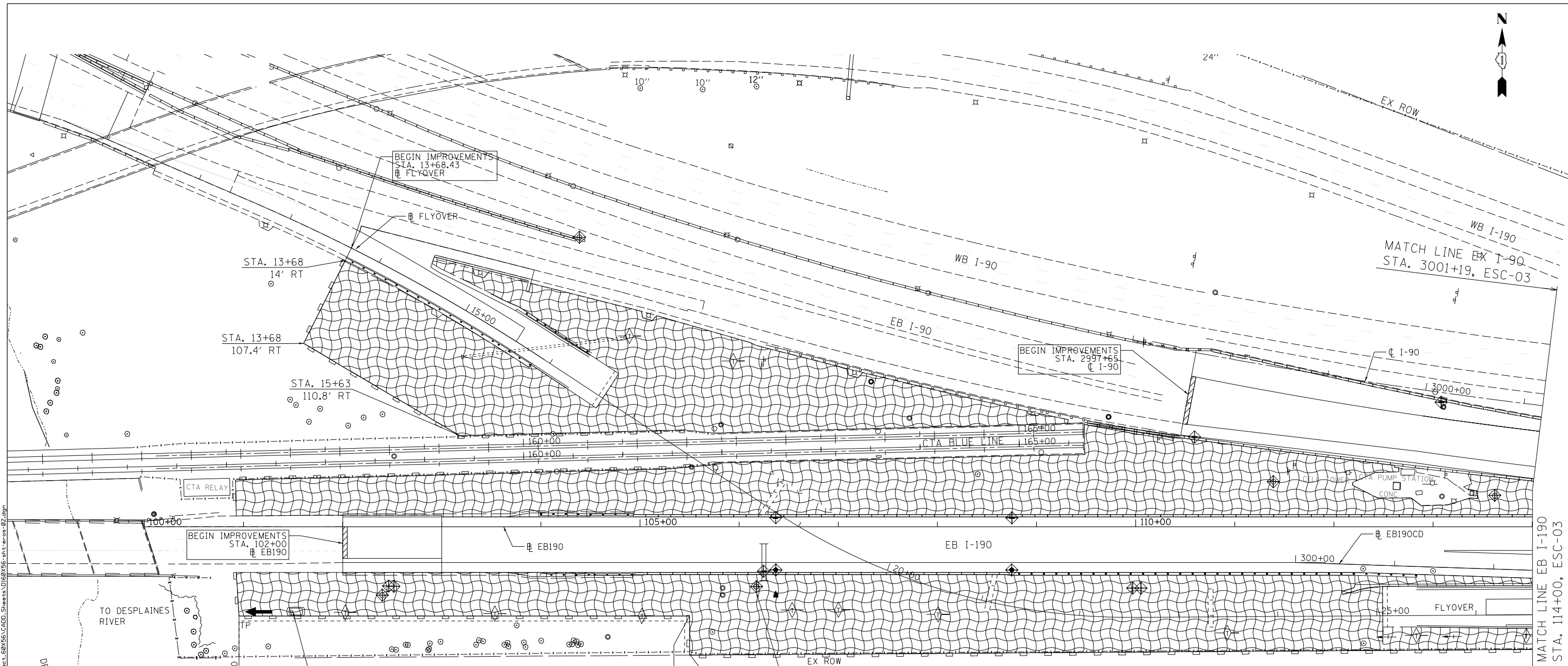
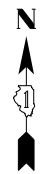
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL
GENERAL NOTES**

SCALE: SHEET OF SHEETS STA. TO STA.

ESC-01				
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	108
			CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT				



EROSION CONTROL LEGEND

- PERIMETER EROSION BARRIER
- DRAINAGE STRUCTURE INLET FILTERS
- TEMPORARY DITCH CHECK
- TEMPORARY SEEDING WITH EROSION CONTROL BLANKET
- TEMPORARY SEDIMENT BASIN
- TEMPORARY FENCE FOR TREE TRUNK PROTECTION
- STORMWATER OUTLET
- RIPRAP
- PROPOSED DITCH

NOTES:

1. TEMPORARY SEEDING SHALL BE CLASS 7, ACCORDING TO ARTICLE 250.07.
2. THE CONTRACTOR SHALL SUBMIT STABILIZED CONSTRUCTION ENTRANCE LOCATIONS TO THE ENGINEER FOR APPROVAL.
3. FOR CLARITY, THE FLYOVER RAMP BRIDGE SUPER STRUCTURE IS NOT SHOWN.
4. EXISTING DRAINAGE STRUCTURE TO BE REMOVED DURING STAGE I.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN
CUMBERLAND FLYOVER PROJECT**

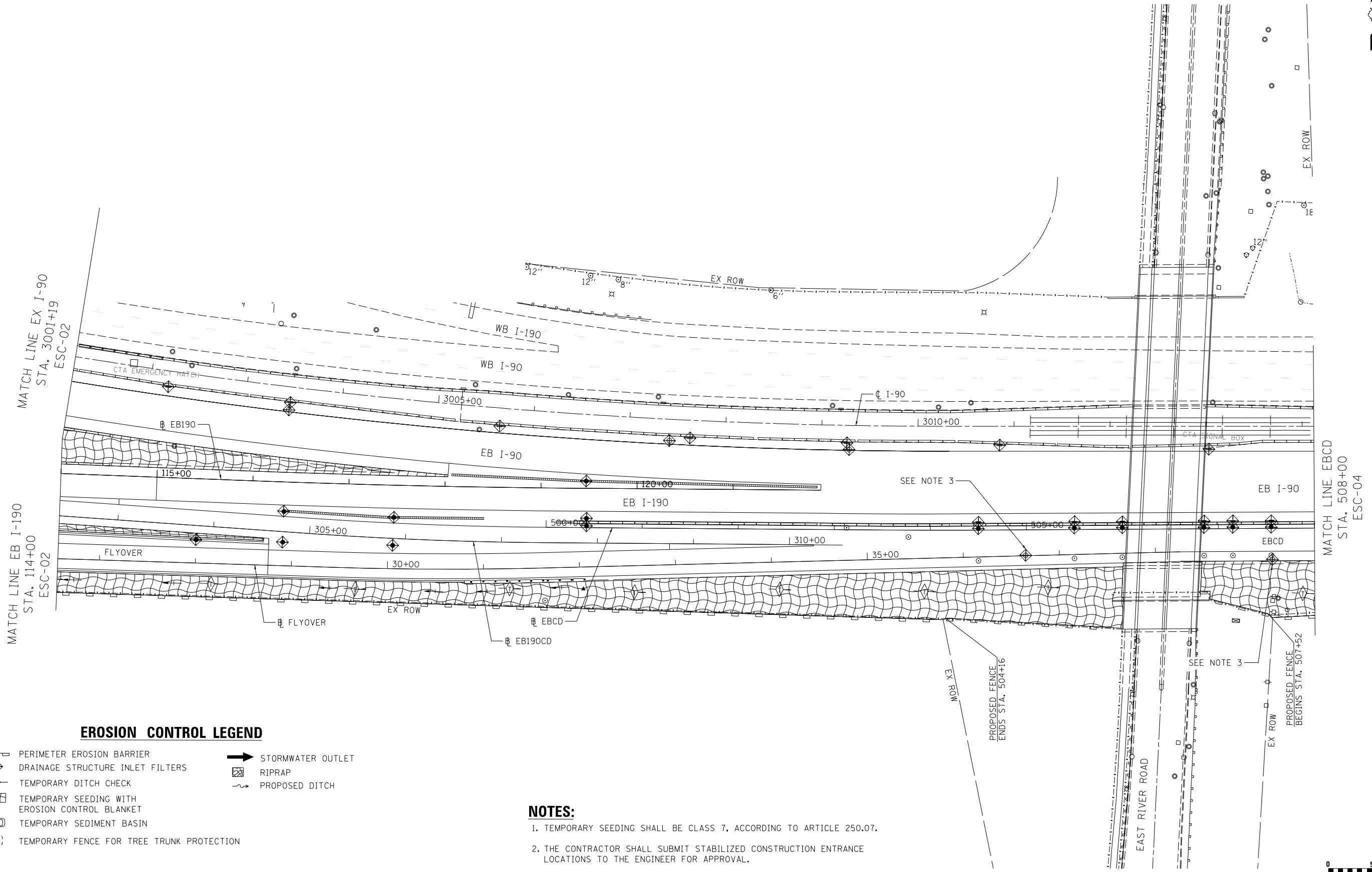
SCALE: 1" = 50' SHEET 1 OF 4 SHEETS STA. 100+00.00 TO STA. 114+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	109
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

ESC-02

MATCH LINE EB I-190
 STA. 114+00, ESC-03

MATCH LINE EX I-90
 STA. 3001+19, ESC-03

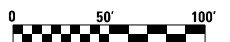


EROSION CONTROL LEGEND

- PERIMETER EROSION BARRIER
- DRAINAGE STRUCTURE INLET FILTERS
- TEMPORARY DITCH CHECK
- TEMPORARY SEEDING WITH EROSION CONTROL BLANKET
- TEMPORARY SEDIMENT BASIN
- TEMPORARY FENCE FOR TREE TRUNK PROTECTION
- STORMWATER OUTLET
- RIPRAP
- PROPOSED DITCH

NOTES:

1. TEMPORARY SEEDING SHALL BE CLASS 7, ACCORDING TO ARTICLE 250.07.
2. THE CONTRACTOR SHALL SUBMIT STABILIZED CONSTRUCTION ENTRANCE LOCATIONS TO THE ENGINEER FOR APPROVAL.
3. EXISTING DRAINAGE STRUCTURE TO BE REMOVED DURING STAGE I.



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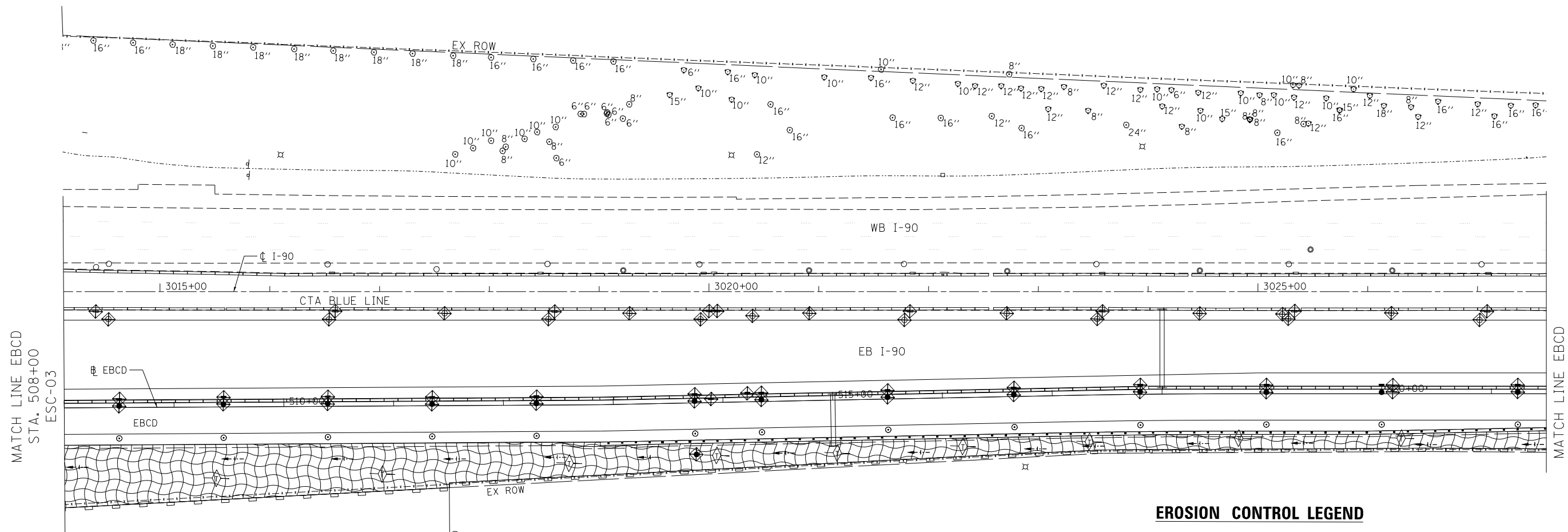
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN
CUMBERLAND FLYOVER PROJECT**

SCALE: 1" = 50' SHEET 2 OF 4 SHEETS STA. 114+00.00 TO STA. 508+00.00

F.A.I. RTE. 190		SECTION 1517R-1(13)	COUNTY COOK	TOTAL SHEETS	SHEET NO.
				580	110
				CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT					

ESC-03



EROSION CONTROL LEGEND

- PERIMETER EROSION BARRIER
- DRAINAGE STRUCTURE INLET FILTERS
- TEMPORARY DITCH CHECK
- TEMPORARY SEEDING WITH EROSION CONTROL BLANKET
- TEMPORARY SEDIMENT BASIN
- TEMPORARY FENCE FOR TREE TRUNK PROTECTION
- STORMWATER OUTLET
- RIPRAP
- PROPOSED DITCH

NOTES:

1. TEMPORARY SEEDING SHALL BE CLASS 7, ACCORDING TO ARTICLE 250.07.
2. THE CONTRACTOR SHALL SUBMIT STABILIZED CONSTRUCTION ENTRANCE LOCATIONS TO THE ENGINEER FOR APPROVAL.



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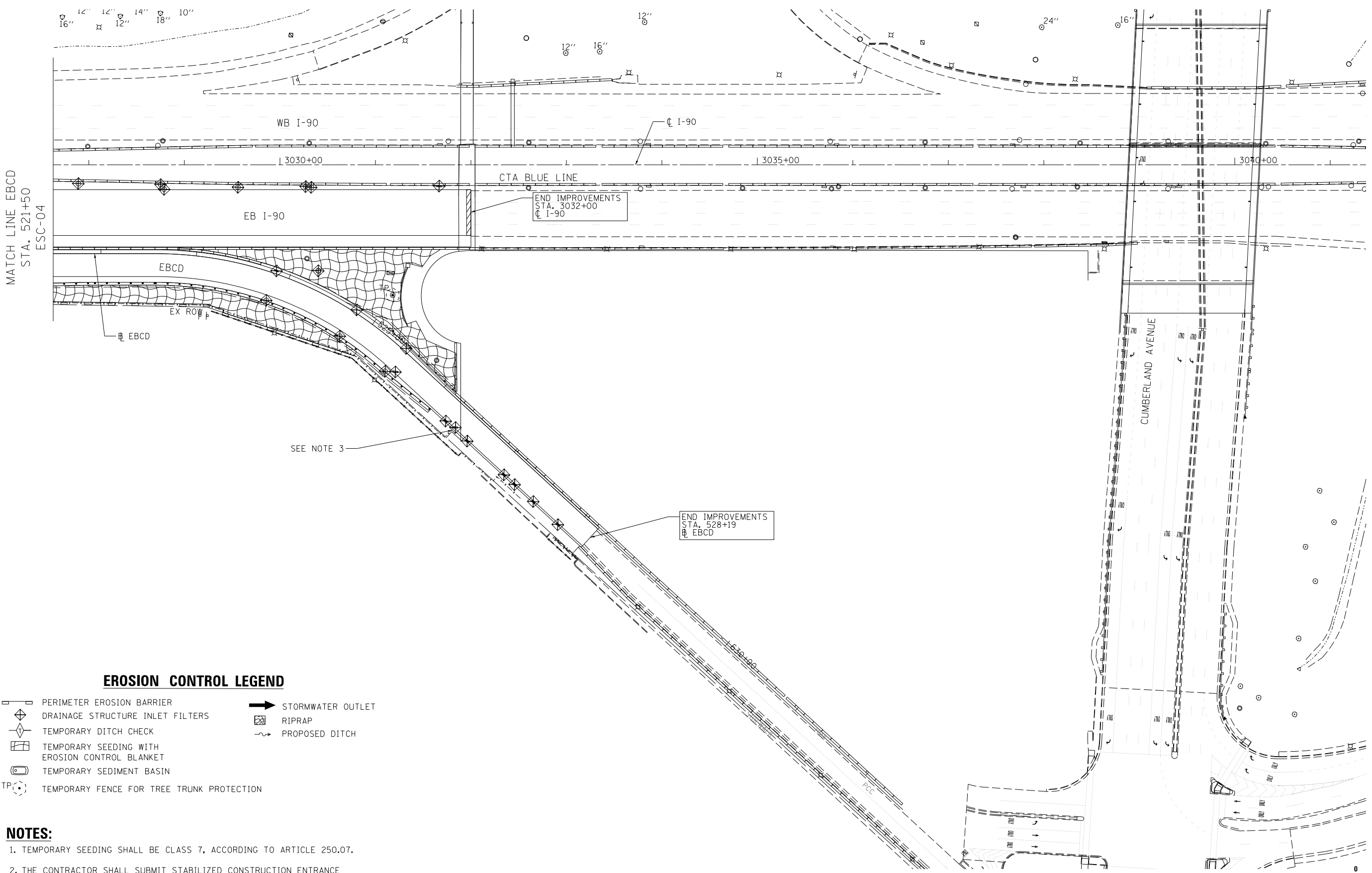
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN CUMBERLAND FLYOVER PROJECT			
SCALE: 1" = 50'	SHEET 3	OF 4 SHEETS	STA. 508+00.00 TO STA. 521+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	111
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

ESC-04



EROSION CONTROL LEGEND

- PERIMETER EROSION BARRIER
- DRAINAGE STRUCTURE INLET FILTERS
- TEMPORARY DITCH CHECK
- TEMPORARY SEEDING WITH EROSION CONTROL BLANKET
- TEMPORARY SEDIMENT BASIN
- TEMPORARY FENCE FOR TREE TRUNK PROTECTION
- STORMWATER OUTLET
- RIPRAP
- PROPOSED DITCH

NOTES:

1. TEMPORARY SEEDING SHALL BE CLASS 7, ACCORDING TO ARTICLE 250.07.
2. THE CONTRACTOR SHALL SUBMIT STABILIZED CONSTRUCTION ENTRANCE LOCATIONS TO THE ENGINEER FOR APPROVAL.
3. EXISTING DRAINAGE STRUCTURE TO BE REMOVED DURING STAGE 2.



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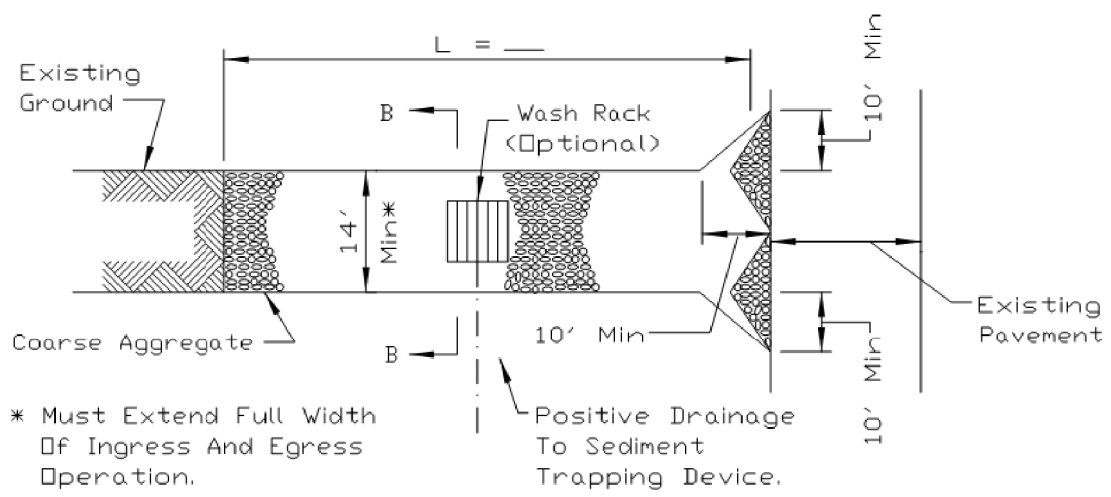
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN			
CUMBERLAND FLYOVER PROJECT			
SCALE: 1" = 50'	SHEET 4	OF 4 SHEETS	STA. 521+50.00 TO STA. 528+19.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	112
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

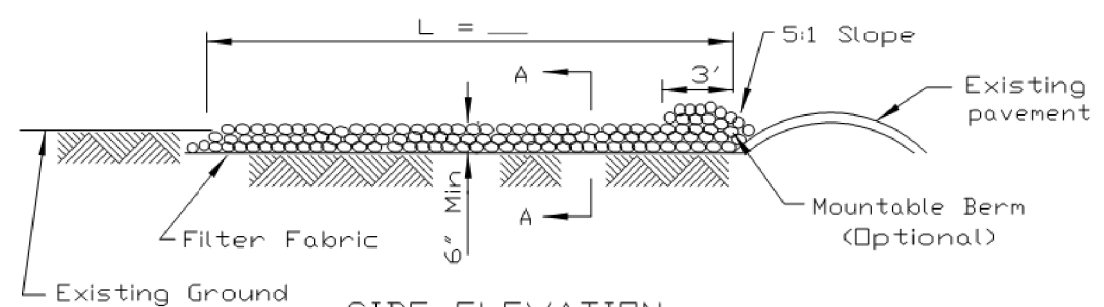
ESC-05

STABILIZED CONSTRUCTION ENTRANCE PLAN



* Must Extend Full Width Of Ingress And Egress Operation.

PLAN VIEW



SIDE ELEVATION

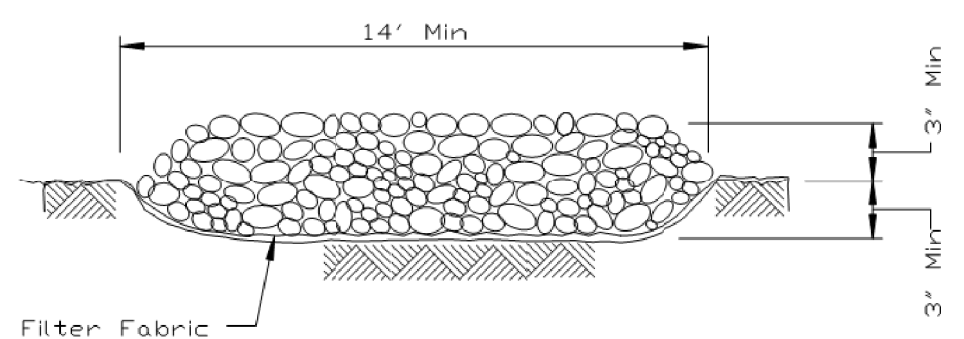
- NOTES:
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
 2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
 3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
 4. If wash racks are used they shall be installed according to the manufacturer's specifications.

REFERENCE Project _____	DESIGNED _____ Date _____
Checked _____	DATE _____
Approved _____	

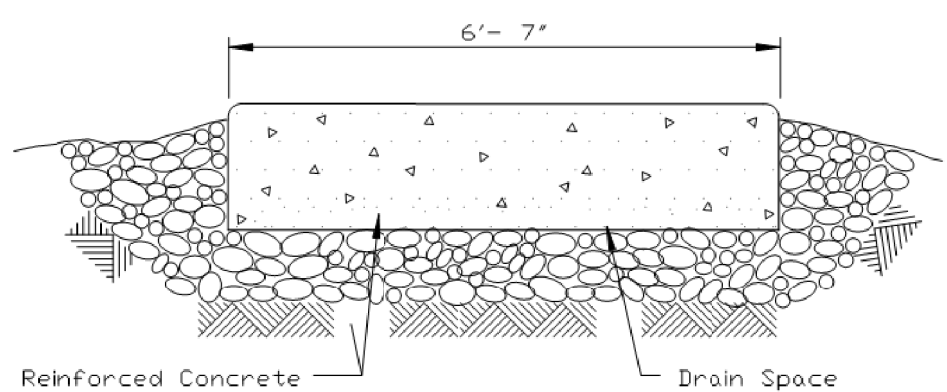


STANDARD DWG. NO.
IL-630
SHEET 1 OF 2
DATE 8-18-94

STABILIZED CONSTRUCTION ENTRANCE PLAN



SECTION A-A



SECTION B-B

REFERENCE Project _____	DESIGNED _____ Date _____
Checked _____	DATE _____
Approved _____	



STANDARD DWG. NO.
IL-630
SHEET 2 OF 2
DATE 8-18-94

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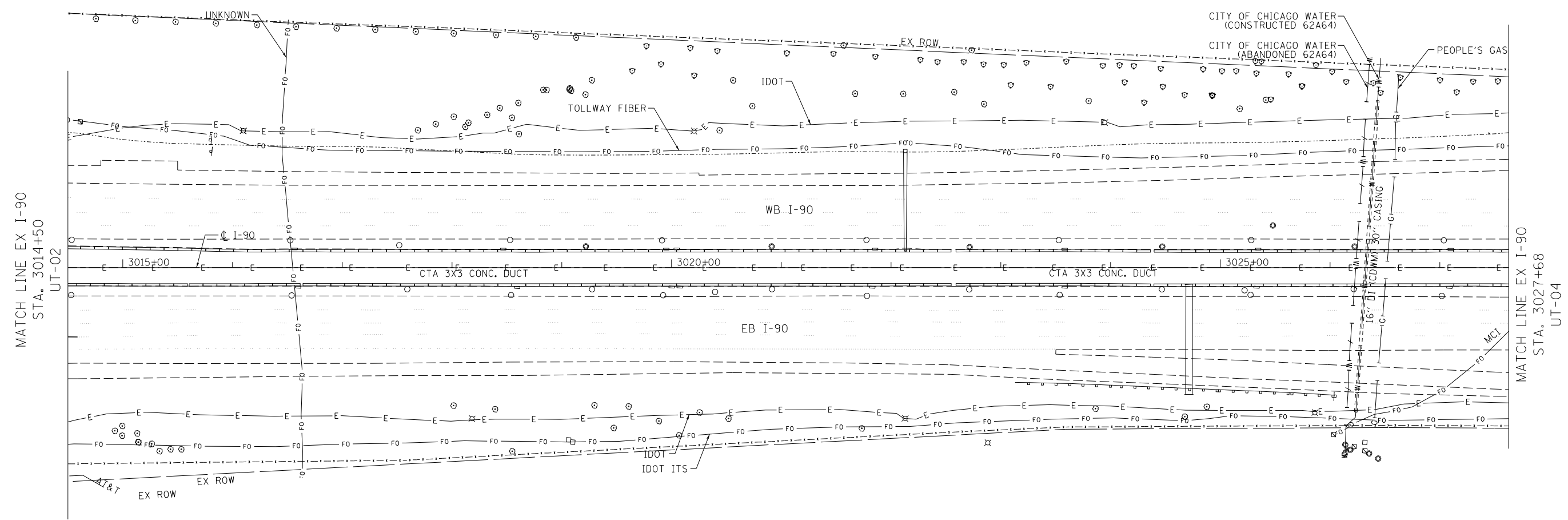
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL
DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

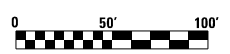
F.A.I. RTE. 190	SECTION 1517R-1(13)	COUNTY COOK	TOTAL SHEETS 580	SHEET NO. 113
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

ESC-06



NOTES:

1. SEVENTY-TWO (72) HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR SHALL CALL DIGGER (CHICAGO UTILITY ALERT NETWORK) AT (312) 744-7000 TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES MARKED IN THE FIELD.
2. EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM OFFICE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS. ALL UNDERGROUND UTILITIES MUST BE CONSIDERED APPROXIMATE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE AT THE CONTRACTORS EXPENSE.



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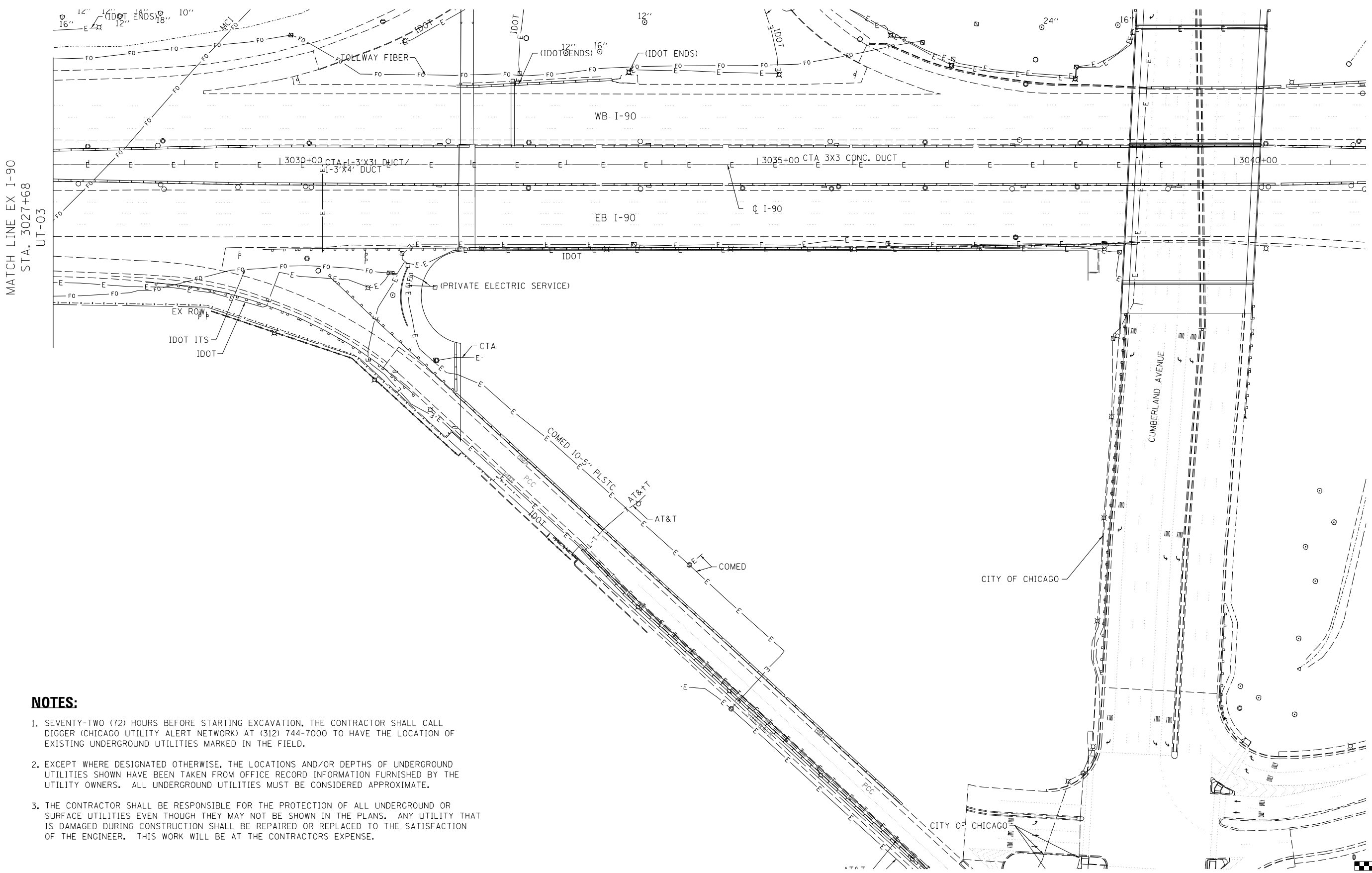
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING UTILITIES

SCALE: 1" = 50' SHEET 3 OF 4 SHEETS STA. 3014+50 TO STA. 3027+68

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	116
CONTRACT NO. 60X56			UT-03	
ILLINOIS FED. AID PROJECT				



NOTES:

1. SEVENTY-TWO (72) HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR SHALL CALL DIGGER (CHICAGO UTILITY ALERT NETWORK) AT (312) 744-7000 TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES MARKED IN THE FIELD.
2. EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM OFFICE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS. ALL UNDERGROUND UTILITIES MUST BE CONSIDERED APPROXIMATE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE AT THE CONTRACTORS EXPENSE.

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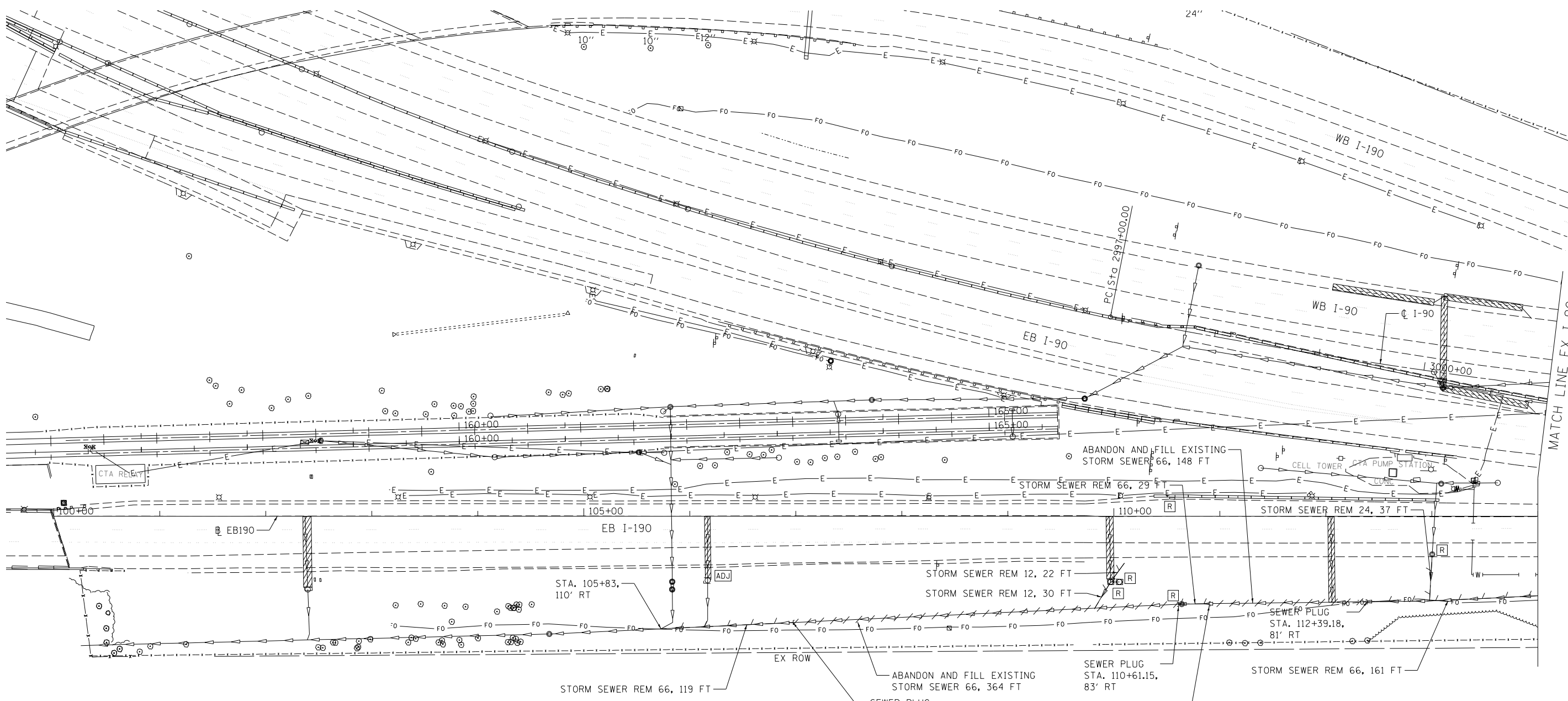
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	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING UTILITIES

SCALE: 1" = 50' SHEET 4 OF 4 SHEETS STA. 3027+68 TO STA. EOP

UT-04			
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
190	1517R-1(13)	COOK	580
			SHEET NO. 117
			CONTRACT NO. 60X56
ILLINOIS FED. AID PROJECT			



DRAINAGE REMOVALS

MANHOLES TO BE REMOVED
 STA. 110+64.18, 82.79' RT
 STA. 113+00.40, 35.96' RT

STORM SEWER REMOVAL 12"
 STA. 109+81 TO STA. 109+97, 30'
 STA. 109+97 TO STA. 110+10, 22'

STORM SEWER REMOVAL 24"
 STA. 112+98 TO STA. 113+00, 37' TBF 71 CY

STORM SEWER REMOVAL 66"
 STA. 105+83 TO STA. 106+97, 119' TBF 633 CY
 STA. 110+61 TO STA. 110+90, 29' TBF 145 CY
 STA. 112+39 TO STA. 114+00, 161' TBF 830 CY

ABANDON AND FILL EXISTING STORM SEWER
 STA. 106+97.55 TO STA. 110+61.15, 364'
 STA. 110+90.14 TO STA. 112+39.18, 148'

CATCH BASINS TO BE ADJUSTED
 STA. 106+16.51, 60.70 RT

CATCH BASINS TO BE REMOVED
 STA. 109+96.97, 61.84 RT
 STA. 110+05.40, 61.92 RT

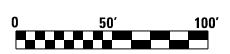
INLET TO BE REMOVED
 STA. 110+55.26, 17.00 LT

NOTES:

1. STORM SEWER REMOVALS SHALL BE COORDINATED WITH PROPOSED STORM SEWERS.
2. SEVENTY-TWO (72) HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR SHALL CALL DIGGER (CHICAGO UTILITY ALERT NETWORK) AT (312) 744-7000 TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES MARKED IN THE FIELD.
3. EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM OFFICE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS. ALL UNDERGROUND UTILITIES MUST BE CONSIDERED APPROXIMATE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE AT THE CONTRACTORS EXPENSE.
5. ABANDONED SEWERS MUST BE PLUGGED ON BOTH ENDS WITH 2 ROWS OF CONCRETE BLOCK OR BRICK AND SUITABLE MORTAR. COST FOR PLUGS TO BE PAID FOR UNDER FILL EXISTING SEWER ITEM COST.
6. TRENCH BACKFILL IS PLACED UNDER PROPOSED ROADWAY WHERE STORM SEWER IS BEING REMOVED.

LEGEND

- [ADJ] DRAINAGE STRUCTURE ADJUSTMENT
- [R] DRAINAGE STRUCTURE REMOVAL
- [F] STRUCTURE TO FILLED
- DRAINAGE PIPE REMOVAL
- PREVIOUSLY ABANDONED PIPE
- /// ABANDON AND FILL EXISTING STORM SEWER
-] SEWER PLUG



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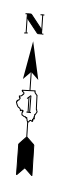
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING DRAINAGE PLAN AND REMOVALS

SCALE: 1" = 50' SHEET 1 OF 4 SHEETS STA. BOP TO STA. 3001+19

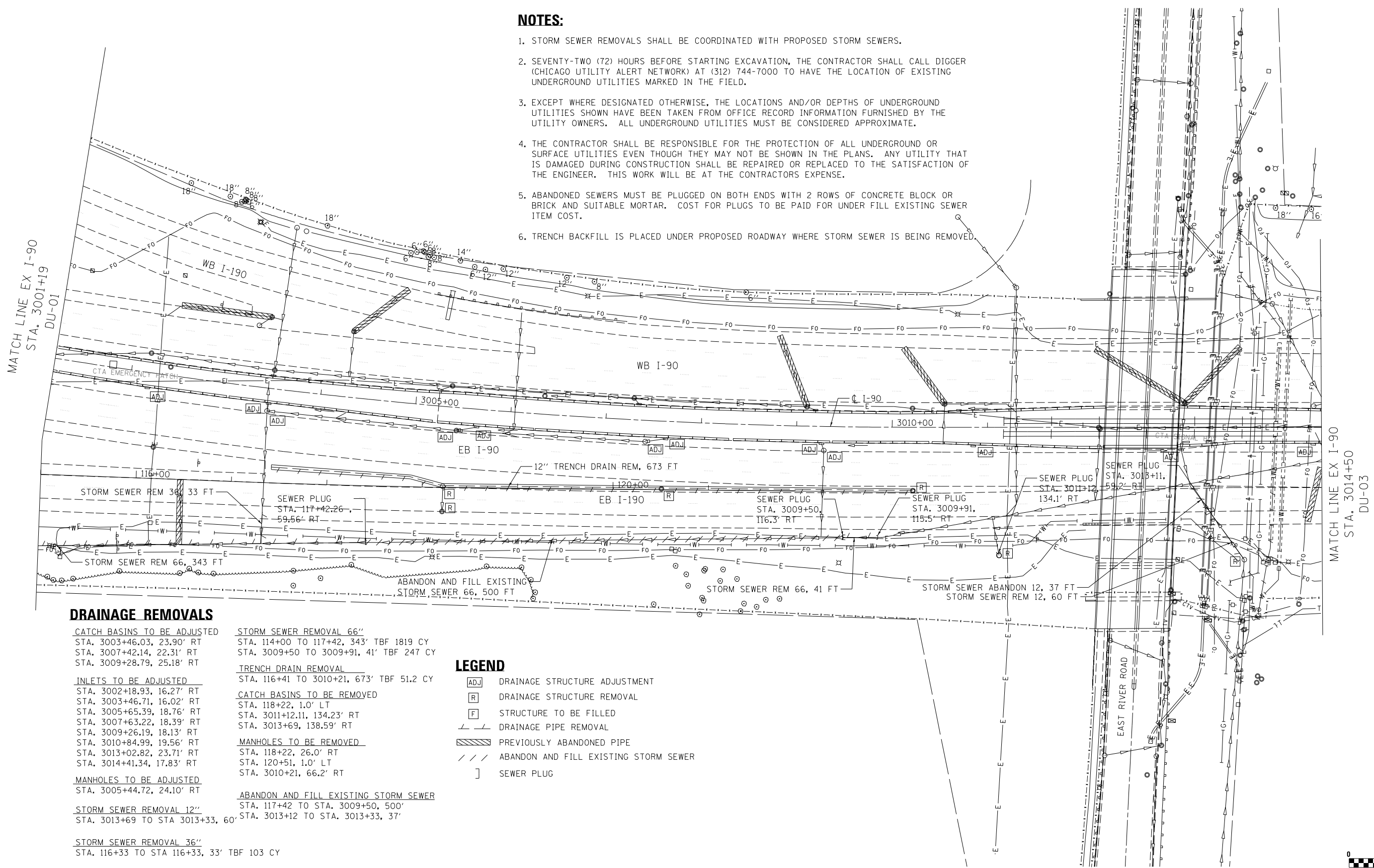
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190		1517R-1(13)	COOK	580	118
ILLINOIS FED. AID PROJECT				CONTRACT NO. 60X56	

DU-01



NOTES:

1. STORM SEWER REMOVALS SHALL BE COORDINATED WITH PROPOSED STORM SEWERS.
2. SEVENTY-TWO (72) HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR SHALL CALL DIGGER (CHICAGO UTILITY ALERT NETWORK) AT (312) 744-7000 TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES MARKED IN THE FIELD.
3. EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM OFFICE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS. ALL UNDERGROUND UTILITIES MUST BE CONSIDERED APPROXIMATE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE AT THE CONTRACTORS EXPENSE.
5. ABANDONED SEWERS MUST BE PLUGGED ON BOTH ENDS WITH 2 ROWS OF CONCRETE BLOCK OR BRICK AND SUITABLE MORTAR. COST FOR PLUGS TO BE PAID FOR UNDER FILL EXISTING SEWER ITEM COST.
6. TRENCH BACKFILL IS PLACED UNDER PROPOSED ROADWAY WHERE STORM SEWER IS BEING REMOVED.



DRAINAGE REMOVALS

- CATCH BASINS TO BE ADJUSTED**
 STA. 3003+46.03, 23.90' RT
 STA. 3007+42.14, 22.31' RT
 STA. 3009+28.79, 25.18' RT
- INLETS TO BE ADJUSTED**
 STA. 3002+18.93, 16.27' RT
 STA. 3003+46.71, 16.02' RT
 STA. 3005+65.39, 18.76' RT
 STA. 3007+63.22, 18.39' RT
 STA. 3009+26.19, 18.13' RT
 STA. 3010+84.99, 19.56' RT
 STA. 3013+02.82, 23.71' RT
 STA. 3014+41.34, 17.83' RT
- MANHOLES TO BE ADJUSTED**
 STA. 3005+44.72, 24.10' RT
- STORM SEWER REMOVAL 12\"**
 STA. 3013+69 TO STA 3013+33, 60'
- STORM SEWER REMOVAL 36\"**
 STA. 116+33 TO STA 116+33, 33' TBF 103 CY

- STORM SEWER REMOVAL 66\"**
 STA. 114+00 TO 117+42, 343' TBF 1819 CY
 STA. 3009+50 TO 3009+91, 41' TBF 247 CY
- TRENCH DRAIN REMOVAL**
 STA. 116+41 TO 3010+21, 673' TBF 51.2 CY
- CATCH BASINS TO BE REMOVED**
 STA. 118+22, 1.0' LT
 STA. 3011+12.11, 134.23' RT
 STA. 3013+69, 138.59' RT
- MANHOLES TO BE REMOVED**
 STA. 118+22, 26.0' RT
 STA. 120+51, 1.0' LT
 STA. 3010+21, 66.2' RT
- ABANDON AND FILL EXISTING STORM SEWER**
 STA. 117+42 TO STA. 3009+50, 500'
 STA. 3013+12 TO STA. 3013+33, 37'

LEGEND

- [ADJ] DRAINAGE STRUCTURE ADJUSTMENT
- [R] DRAINAGE STRUCTURE REMOVAL
- [F] STRUCTURE TO BE FILLED
- DRAINAGE PIPE REMOVAL
- ▨ PREVIOUSLY ABANDONED PIPE
- /// ABANDON AND FILL EXISTING STORM SEWER
-] SEWER PLUG



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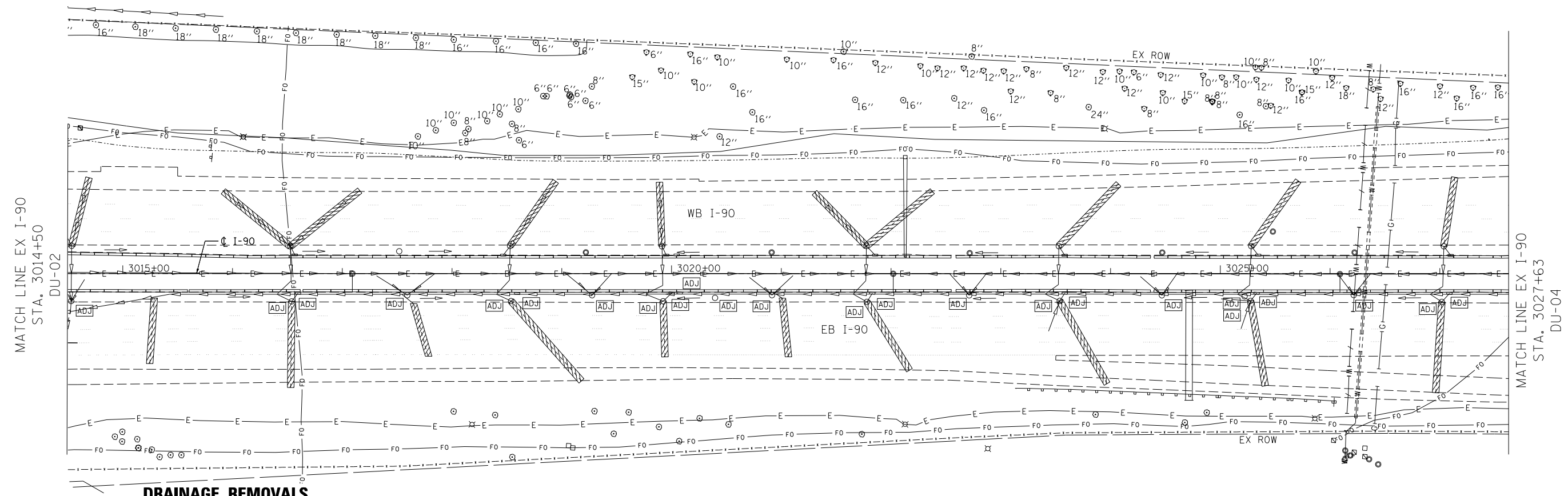
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:		SHEET 2	OF 4	SHEETS	STA. 3001+19	TO STA. 3014+50
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	119
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

DU-02



DRAINAGE REMOVALS

- CATCH BASINS TO BE ADJUSTED
- STA. 3014+52.96, 25.01' RT
 - STA. 3016+53.92, 25.31' RT
 - STA. 3017+59.26, 19.72' RT
 - STA. 3018+53.74, 25.05' RT
 - STA. 3019+27.58, 19.77' RT
 - STA. 3019+92.36, 25.16' RT
 - STA. 3020+39.64, 22.10' RT
 - STA. 3020+91.56, 19.68' RT
 - STA. 3021+78.04, 25.76' RT
 - STA. 3022+71.19, 19.82' RT
 - STA. 3023+53.62, 24.87' RT
 - STA. 3024+46.74, 19.80' RT
 - STA. 3025+22.09, 20.65' RT
 - STA. 3025+27.56, 24.82' RT
 - STA. 3026+21.48, 19.56' RT
 - STA. 3027+01.84, 25.79' RT

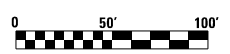
- INLETS TO BE ADJUSTED
- STA. 3016+59.68, 17.85' RT
 - STA. 3018+59.34, 18.10' RT
 - STA. 3020+00.11, 17.72' RT
 - STA. 3020+07.41, 17.68' RT
 - STA. 3021+82.84, 17.85' RT
 - STA. 3023+58.23, 17.83' RT
 - STA. 3025+33.12, 17.89' RT
 - STA. 3027+08.70, 18.04' RT

LEGEND

- ADJ DRAINAGE STRUCTURE ADJUSTMENT
- R DRAINAGE STRUCTURE REMOVAL
- DRAINAGE PIPE REMOVAL
- PREVIOUSLY ABANDONED PIPE

NOTES:

1. STORM SEWER REMOVALS SHALL BE COORDINATED WITH PROPOSED STORM SEWERS.
2. SEVENTY-TWO (72) HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR SHALL CALL DIGGER (CHICAGO UTILITY ALERT NETWORK) AT (312) 744-7000 TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES MARKED IN THE FIELD.
3. EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM OFFICE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS. ALL UNDERGROUND UTILITIES MUST BE CONSIDERED APPROXIMATE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE AT THE CONTRACTORS EXPENSE.
5. TRENCH BACKFILL IS PLACED UNDER PROPOSED ROADWAY WHERE STORM SEWER IS BEING REMOVED.



FILE NAME: I:\Projects\2016\1198_Cumberland\Drawings\CADD_Sheets\DU-03.dwg
 PROJECT: I-90 I-190 Cumberland Land Use Design
 CONTRACT: 60X56
 SHEETS: DU-03



USER NAME = mkosir	DESIGNED - MMK	REVISED -
	DRAWN - MMK	REVISED -
PLOT SCALE = 1:8000 / 1/8"	CHECKED - MAM	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

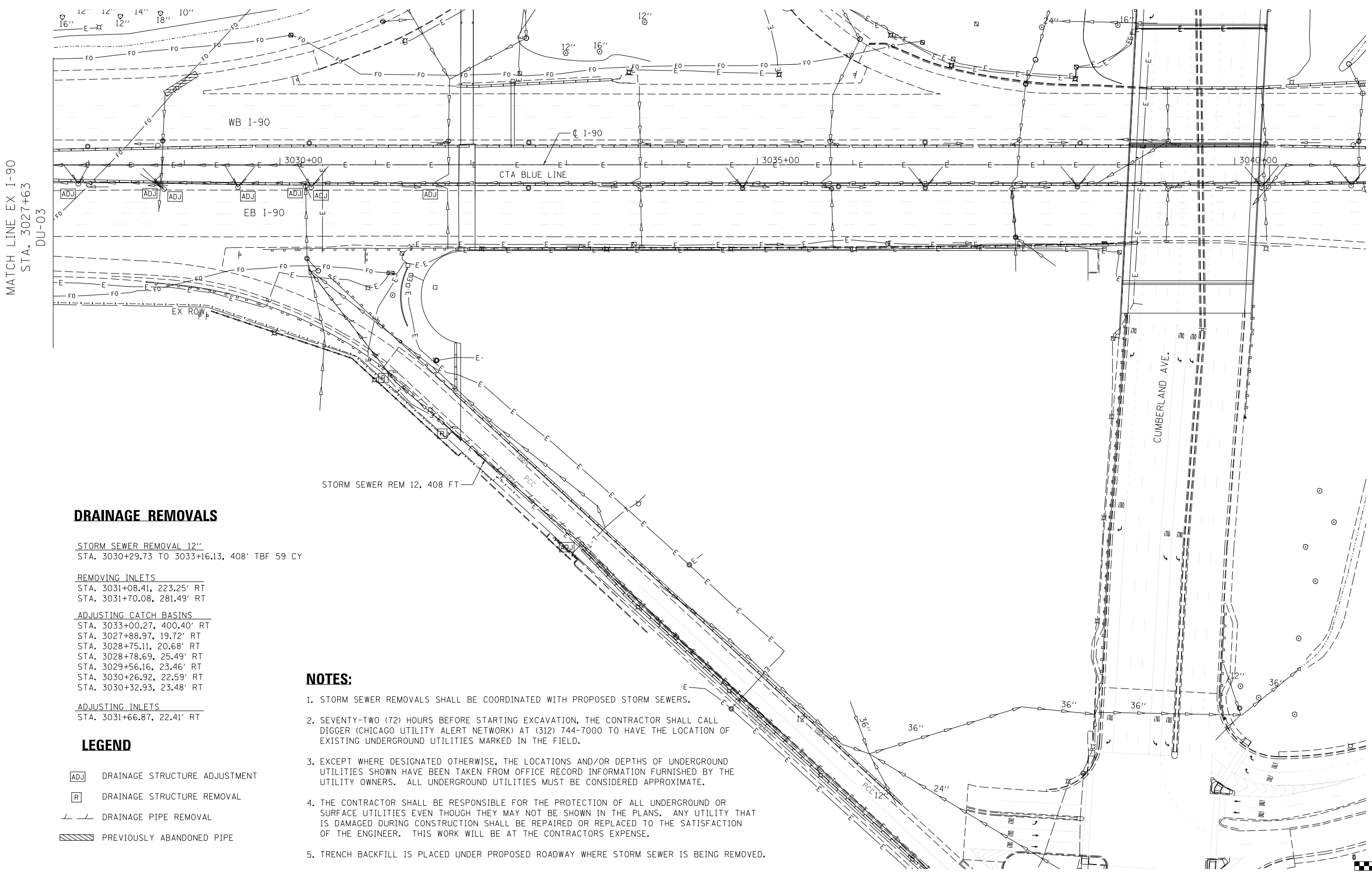
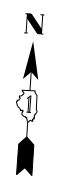
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING DRAINAGE PLAN AND REMOVALS

SCALE: SHEET 3 OF 4 SHEETS STA. 3014+50 TO STA. 3027+63

F.A.I. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				580	120
190	1517R-1(13)	COOK	CONTRACT NO. 60X56		
ILLINOIS FED. AID PROJECT					

DU-03



MATCH LINE EX I-90
STA. 3027+63
DU-03

DRAINAGE REMOVALS

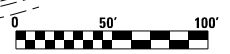
- STORM SEWER REMOVAL 12"
STA. 3030+29.73 TO 3033+16.13, 408' TBF 59 CY
- REMOVING INLETS
STA. 3031+08.41, 223.25' RT
STA. 3031+70.08, 281.49' RT
- ADJUSTING CATCH BASINS
STA. 3033+00.27, 400.40' RT
STA. 3027+88.97, 19.72' RT
STA. 3028+75.11, 20.68' RT
STA. 3028+78.69, 25.49' RT
STA. 3029+56.16, 23.46' RT
STA. 3030+26.92, 22.59' RT
STA. 3030+32.93, 23.48' RT
- ADJUSTING INLETS
STA. 3031+66.87, 22.41' RT

LEGEND

- ADJ DRAINAGE STRUCTURE ADJUSTMENT
- R DRAINAGE STRUCTURE REMOVAL
- DRAINAGE PIPE REMOVAL
- PREVIOUSLY ABANDONED PIPE

NOTES:

1. STORM SEWER REMOVALS SHALL BE COORDINATED WITH PROPOSED STORM SEWERS.
2. SEVENTY-TWO (72) HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR SHALL CALL DIGGER (CHICAGO UTILITY ALERT NETWORK) AT (312) 744-7000 TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES MARKED IN THE FIELD.
3. EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM OFFICE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS. ALL UNDERGROUND UTILITIES MUST BE CONSIDERED APPROXIMATE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE AT THE CONTRACTORS EXPENSE.
5. TRENCH BACKFILL IS PLACED UNDER PROPOSED ROADWAY WHERE STORM SEWER IS BEING REMOVED.



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USER NAME = mikosir	DESIGNED - MMK	REVISED -
	DRAWN - MMK	REVISED -
PLOT SCALE = 1:8000' / 1"	CHECKED - MAM	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING DRAINAGE PLAN AND REMOVALS

SCALE: SHEET 4 OF 4 SHEETS STA. 3027+63 TO STA.EOP

DU-04			
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
190	1517R-1(13)	COOK	580
			SHEET NO. 121
CONTRACT NO. 60X56			
ILLINOIS FED. AID PROJECT			

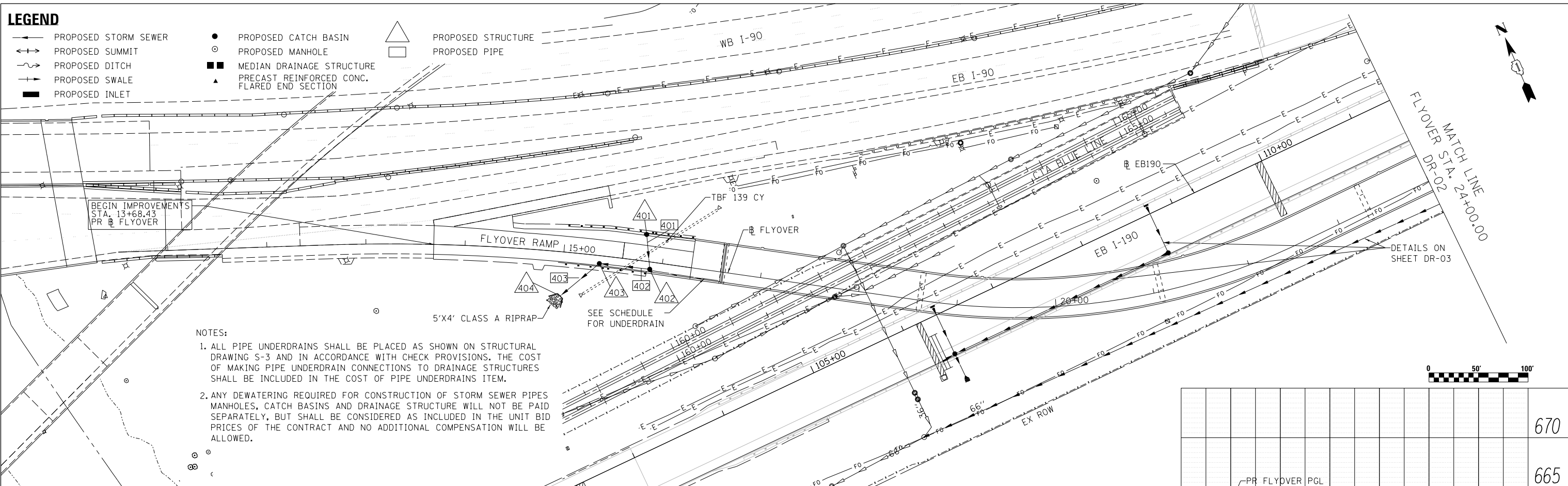
LEGEND

- PROPOSED STORM SEWER
- PROPOSED SUMMIT
- PROPOSED DITCH
- PROPOSED SWALE
- PROPOSED INLET
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE
- MEDIAN DRAINAGE STRUCTURE
- ▲ PRECAST REINFORCED CONC. FLARED END SECTION
- △ PROPOSED STRUCTURE
- PROPOSED PIPE

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	

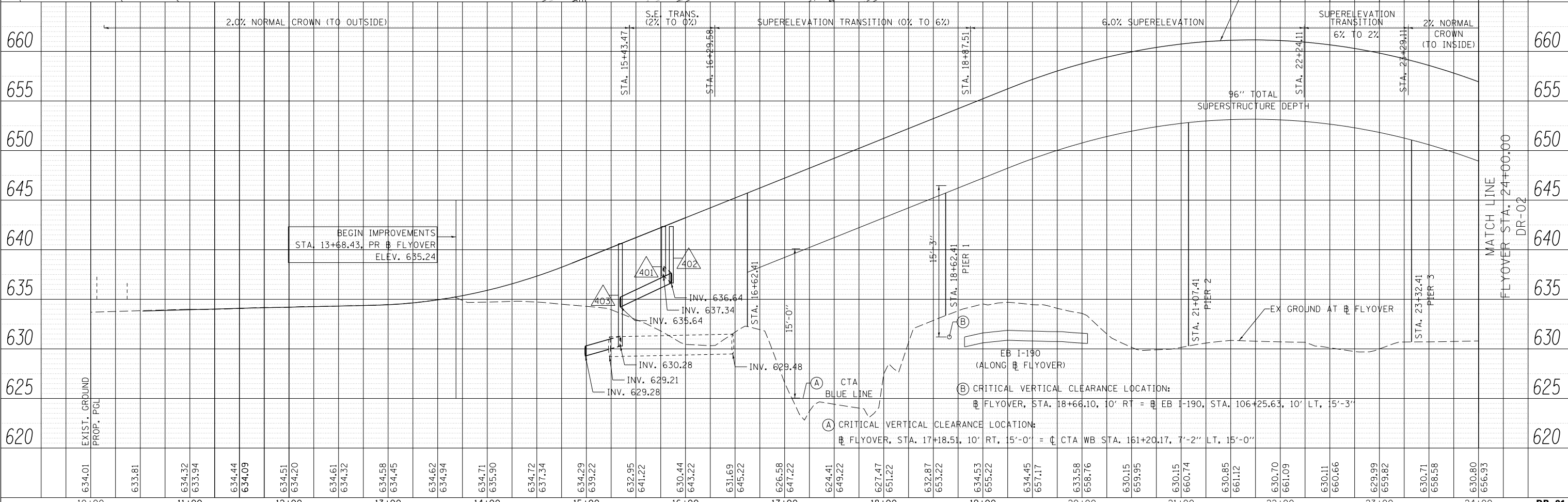
PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	

FILE NAME = p:\hntb\356\hntb\p\c\ees\lakes\Documents\Chicago Projects\30128 1-198 Cumberland\Design\CADD\Sheets\DR-02\55-int-dr-ramp-01.dgn



NOTES:

- ALL PIPE UNDERDRAINS SHALL BE PLACED AS SHOWN ON STRUCTURAL DRAWING S-3 AND IN ACCORDANCE WITH CHECK PROVISIONS. THE COST OF MAKING PIPE UNDERDRAIN CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF PIPE UNDERDRAINS ITEM.
- ANY DEWATERING REQUIRED FOR CONSTRUCTION OF STORM SEWER PIPES, MANHOLES, CATCH BASINS AND DRAINAGE STRUCTURE WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.



634.01	633.81	634.32	633.94	634.44	634.09	634.51	634.20	634.61	634.32	634.58	634.45	634.62	634.94	634.71	635.90	634.72	637.34	634.29	639.22	632.95	641.22	630.44	643.22	631.69	645.22	626.58	647.22	624.41	649.22	627.47	651.22	632.87	653.22	634.53	655.22	634.45	657.17	633.58	658.76	630.15	659.95	630.15	660.74	630.85	661.12	630.70	661.09	630.11	660.66	629.99	659.82	630.71	658.58	630.80	656.93
10+00	11+00	12+00	13+00	14+00	15+00	16+00	17+00	18+00	19+00	20+00	21+00	22+00	23+00	24+00																																									



USER NAME = mkostr	DESIGNED - MMK	REVISED -
	DRAWN - MMK	REVISED -
PLOT SCALE = 1:8000' / 1"	CHECKED - MAM	REVISED -
PLOT DATE = 7/28/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED DRAINAGE PLAN AND PROFILE
CUMBERLAND FLYOVER RAMP
SCALE: 1" = 50'
SHEET 1 OF 6 SHEETS
STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE. 190	SECTION 1517R-1(13)	COUNTY COOK	TOTAL SHEETS 580	SHEET NO. 122
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

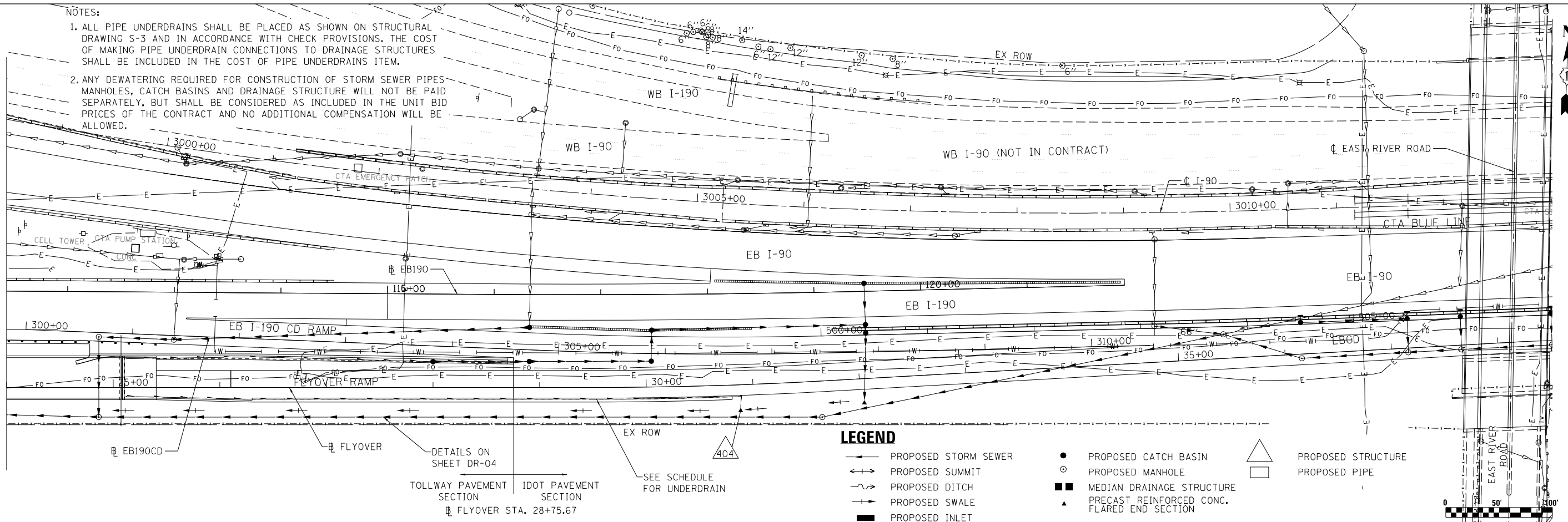
DR-01

NOTES:

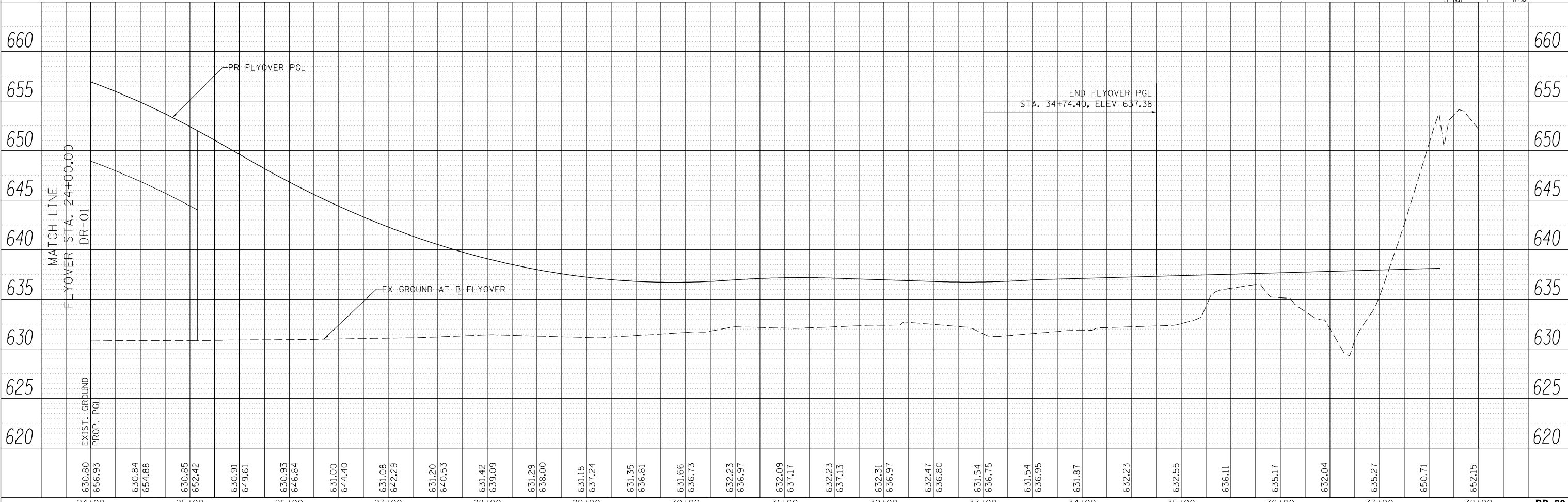
1. ALL PIPE UNDERDRAINS SHALL BE PLACED AS SHOWN ON STRUCTURAL DRAWING S-3 AND IN ACCORDANCE WITH CHECK PROVISIONS. THE COST OF MAKING PIPE UNDERDRAIN CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF PIPE UNDERDRAINS ITEM.
2. ANY DEWATERING REQUIRED FOR CONSTRUCTION OF STORM SEWER PIPES, MANHOLES, CATCH BASINS AND DRAINAGE STRUCTURE WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE		
	FILE NAME		

MATCH LINE
FLYOVER STA. 24+00.00
DR-01



PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE		
	FILE NAME		



USER NAME = mksosir	DESIGNED - MMK	REVISED -
PLLOT SCALE = 1.0000' / 1in.	DRAWN - MMK	REVISED -
PLLOT DATE = 4/27/2016	CHECKED - MAM	REVISED -
	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED DRAINAGE PLAN AND PROFILE
CUMBERLAND FLYOVER RAMP**

SCALE: 1" = 50' SHEET 2 OF 6 SHEETS STA. 24+00.00 TO STA. 35+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	123
CONTRACT NO. 60X56				

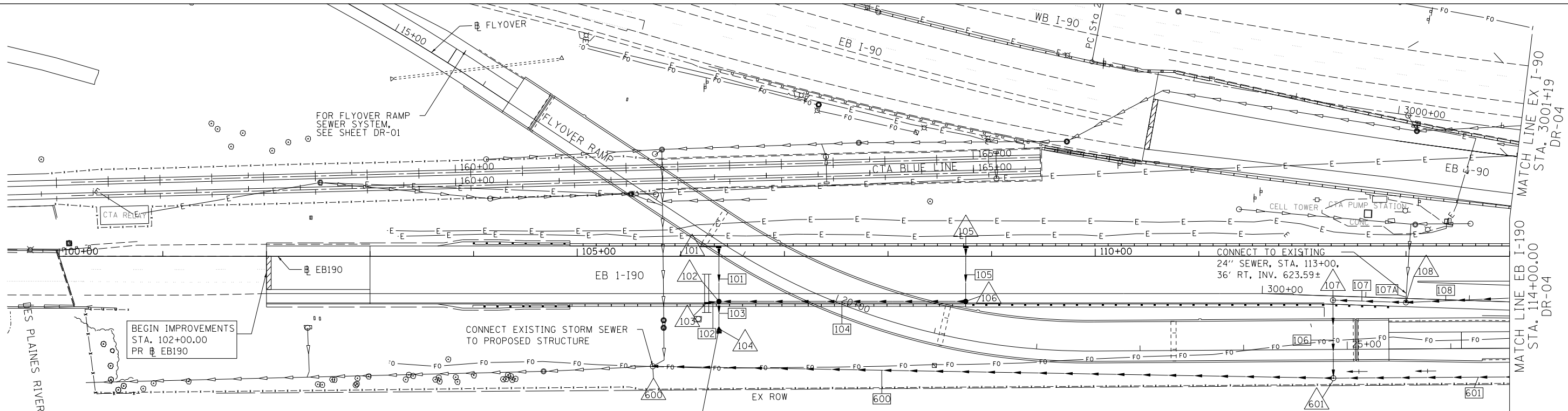
ILLINOIS FED. AID PROJECT

DR-02

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE CHECKED		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE CHECKED		
	FILE NAME		

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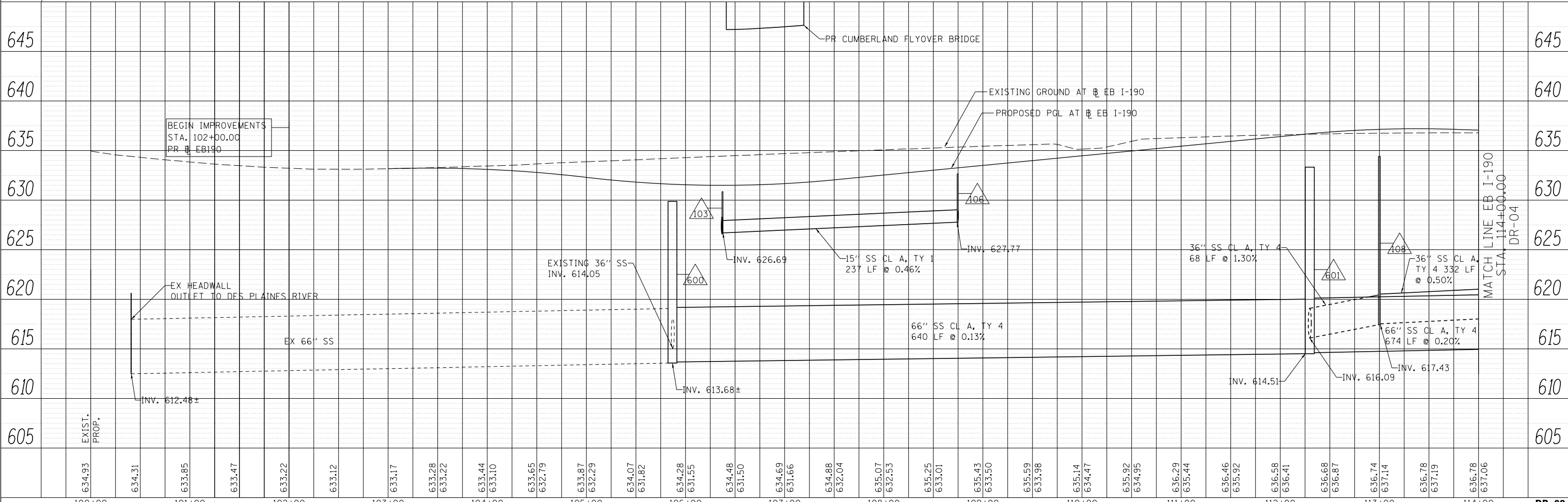


NOTES:

1. THE CONSTRUCTION OF STORM SEWER PIPES WOULD BE CONTRACTOR'S OPTION TO ADOPT ANY MEANS AND METHOD, WITHOUT ENCROACHING RIGHT OF WAY AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

LEGEND

- PROPOSED STORM SEWER
- PROPOSED SUMMIT
- PROPOSED DITCH
- PROPOSED SWALE
- PROPOSED INLET
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE
- ▲ PRECAST REINFORCED CONC. FLARED END SECTION
- △ PROPOSED STRUCTURE
- PROPOSED PIPE



USER NAME = mkostr	DESIGNED - MMK	REVISED -
	DRAWN - MMK	REVISED -
PLOT SCALE = 1:8000 / 1"	CHECKED - MAM	REVISED -
PLOT DATE = 6/2/2016	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED DRAINAGE PLAN AND PROFILE
EASTBOUND I-190**

SCALE: 1" = 50' SHEET 3 OF 7 SHEETS STA. 100+00.00 TO STA. 114+00.00

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	124
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

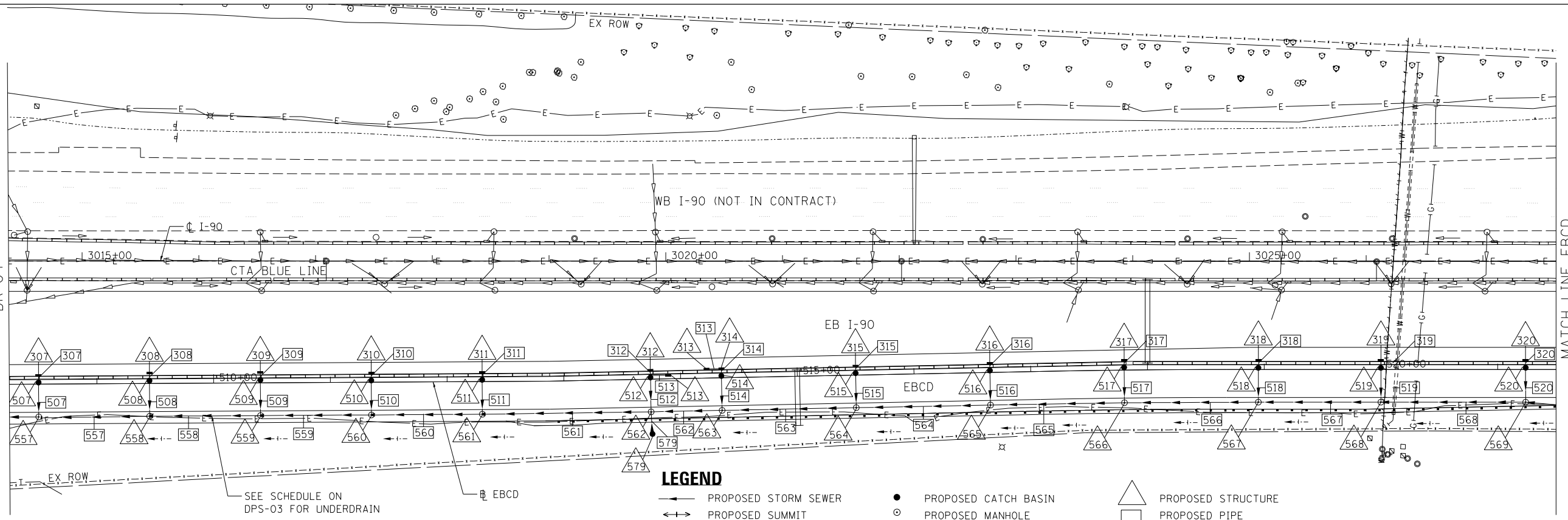
DR-03

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	CHECKED		
	APPROVED		
	FILE NAME		

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NOTE BOOK NO.	GRADES CHECKED		
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	FILE NAME		

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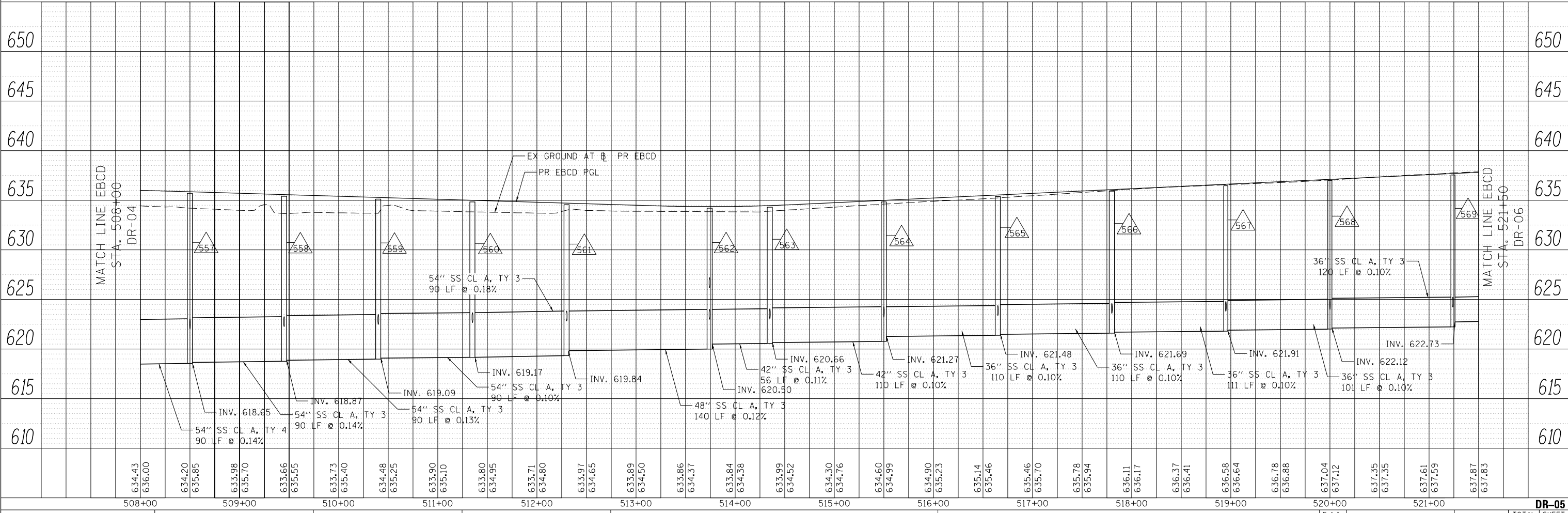
MATCH LINE EB CD
STA. 508+25
DR-04



MATCH LINE EB CD
STA. 521+50
DR-06

LEGEND

- PROPOSED STORM SEWER
- +— PROPOSED SUMMIT
- - - PROPOSED DITCH
- +— PROPOSED SWALE
- PROPOSED INLET
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE
- ▲ PRECAST REINFORCED CONC. FLARED END SECTION
- △ PROPOSED STRUCTURE
- PROPOSED PIPE



USER NAME = mksosr	DESIGNED - MMK	REVISED -
PLOT SCALE = 1:8000' / 1/8"	DRAWN - MMK	REVISED -
PLOT DATE = 4/5/2016	CHECKED - MAM	REVISED -
	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED DRAINAGE PLAN AND PROFILE			
EASTBOUND CD ROAD			
SCALE: 1" = 50'	SHEET 5	OF 7 SHEETS	STA. 508+25.00 TO STA. 521+50.00

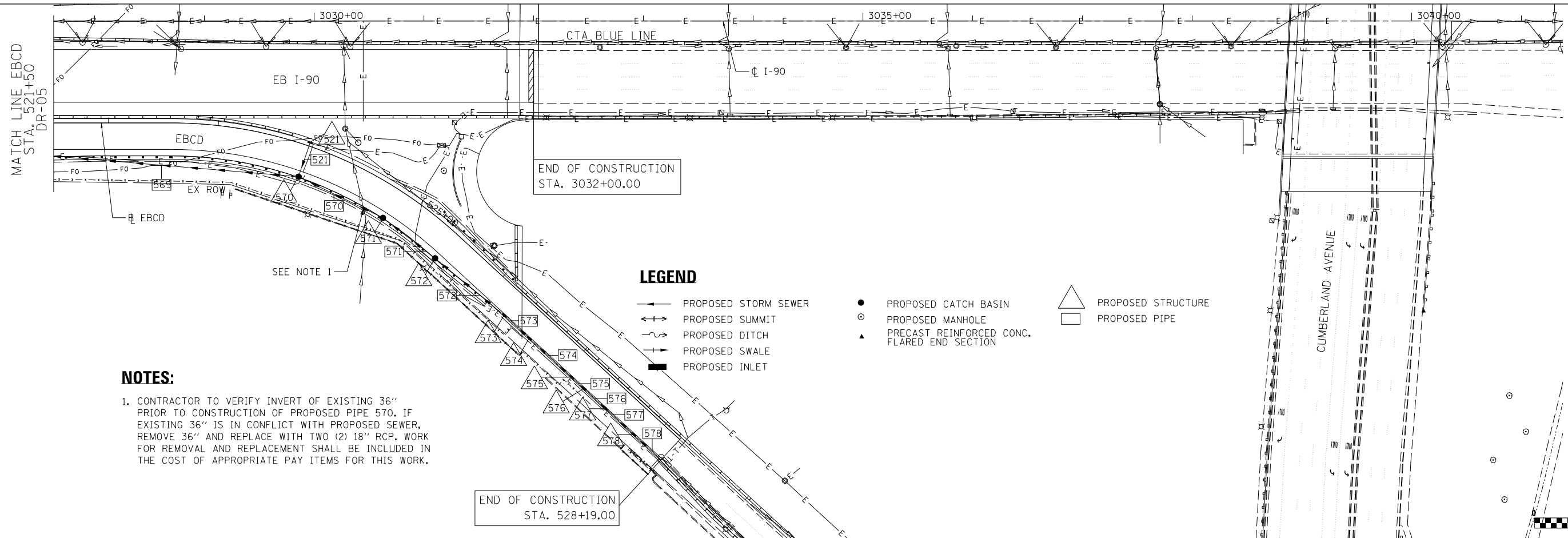
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	126
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

DR-05

PLAN	SURVEYED	DATE
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	GRADES CHECKED	
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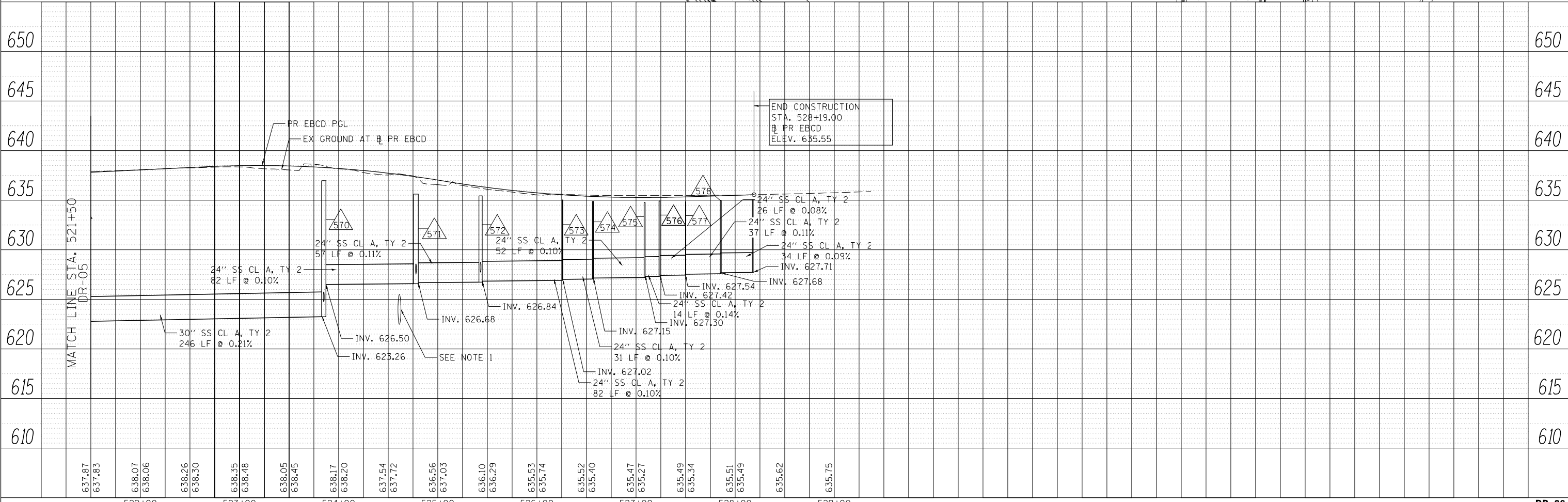
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NOTES:

- CONTRACTOR TO VERIFY INVERT OF EXISTING 36" PRIOR TO CONSTRUCTION OF PROPOSED PIPE 570. IF EXISTING 36" IS IN CONFLICT WITH PROPOSED SEWER, REMOVE 36" AND REPLACE WITH TWO (2) 18" RCP. WORK FOR REMOVAL AND REPLACEMENT SHALL BE INCLUDED IN THE COST OF APPROPRIATE PAY ITEMS FOR THIS WORK.



USER NAME = mkostr	DESIGNED - MMK	REVISED -
	DRAWN - MMK	REVISED -
PLOT SCALE = 1,0000' / 1"	CHECKED - MAM	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PROPOSED DRAINAGE PLAN AND PROFILE
EASTBOUND CD ROAD**

SCALE: 1" = 50' SHEET 6 OF 7 SHEETS STA. 521+50.00 TO STA. 528+19.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	127
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

DR-06

DRAINAGE STRUCTURE DATA

STRUCTURE NO.	DESCRIPTION	ALIGNMENT	STATION	OFFSET	DIR.	PROPOSED RIM ELEV.	NORTH	SOUTH	EAST	WEST	PIPE ID-PIPE SIZE NORTH	PIPE ID-PIPE SIZE SOUTH	PIPE ID-PIPE SIZE EAST	PIPE ID-PIPE SIZE WEST	IDOT SHEET NO.	NOTES:	
561	6' DIA MH TY A	T1F, CL	PR EBCD	512+30.0	28.0	R	634.55	627.29	619.84	619.34	512 12		561 48	560 54	DR-05		
562	6' DIA MH TY A	T1F, CL	PR EBCD	513+74.2	28.0	R	634.20	626.93	626.19	620.50	620.00	513 12	579 12	562 42	561 48	DR-05	
563	5' DIA MH TY A	T1F, CL	PR EBCD	514+35.0	28.0	R	634.30	627.04		620.66	620.56	514 12		563 42	562 42	DR-05	
564	5' DIA MH TY A	T1F, CL	PR EBCD	515+50.0	28.0	R	634.83	627.57		621.27	620.77	515 12		564 36	563 42	DR-05	
565	5' DIA MH TY A	T1F, CL	PR EBCD	516+65.0	28.0	R	635.38	628.11		621.48	621.38	516 12		565 36	564 36	DR-05	
566	5' DIA MH TY A	T1F, CL	PR EBCD	517+80.0	28.0	R	635.92	628.65		621.69	621.59	517 12		566 36	565 36	DR-05	
567	5' DIA MH TY A	T1F, CL	PR EBCD	518+95.0	28.0	R	636.46	629.19		621.91	621.81	518 12		567 36	566 36	DR-05	
568	5' DIA MH TY A	T1F, CL	PR EBCD	520+00.0	28.0	R	637.00	629.74		622.12	622.02	519 12		568 30	567 36	DR-05	
569	4' DIA MH TY A	T1F, CL	PR EBCD	521+24.0	28.0	R	637.54	630.27		622.73	622.23	520 12		569 24	568 30	DR-05	
570	4' DIA CB TY A	T20	PR EBCD	523+85.0	29.0	R	636.97	631.85		626.50	623.26	521 12		570 24	569 24	DR-06	
571	4' DIA CB TY A	T20	PR EBCD	524+78.0	29.0	R	635.62			626.68	626.58			571 24	570 24	DR-06	
572	4' DIA CB TY A	T20	PR EBCD	525+43.2	29.0	R	635.44			626.84	626.74			572 24	571 24	DR-06	
573	INLET TYP B	T20	PR EBCD	526+25.0	25.0	R	635.05			627.02	626.92			573 24	572 24	DR-06	
574	INLET TYP B	T20	PR EBCD	526+56.0	25.0	R	634.88			627.15	627.05			574 24	573 24	DR-06	
575	INLET TYP B	T20	PR EBCD	527+08.2	25.0	R	634.77			627.30	627.20			575 24	574 24	DR-06	
576	INLET TYP B	T20	PR EBCD	527+23.1	25.0	R	634.91			627.42	627.32			576 24	575 24	DR-06	
577	INLET TYP B	T20	PR EBCD	527+50.0	25.0	R	634.87			627.54	627.44			577 24	576 24	DR-06	
578	INLET TYP B	T20	PR EBCD	527+85.0	25.0	R	634.97			627.68	627.58			578 24	577 24	DR-06	
579	4' DIA CB TYP A	T8G	PR EBCD	513+75.0	47.0	R	631.82	626.35				579 12				DR-05	
600	9' DIA MH TY A	T1F, CL	EX I-190	105+73.0	109.5	R	629.82	614.05		614.51	613.68	EX 36		600 66	EX 66	DR-03	EXISTING 36" FROM NORTH
601	9' DIA MH TY A	T1F, CL	EX I-190	112+29.9	117.6	R	631.25	616.09		615.96	614.51	106 36		601 66	600 66	DR-03	
602	7' DIA MH TY A	T1F, CL	EX I-190	119+05.5	117.2	R	631.57			616.06	615.96			602 66	601 66	DR-04	

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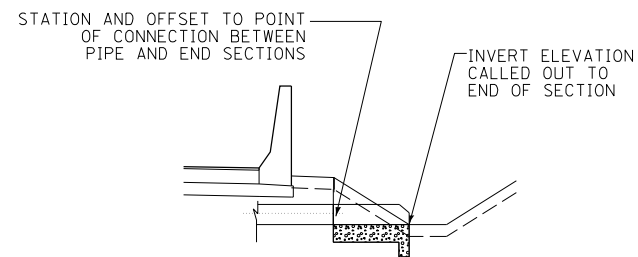
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PLOT SCALE = 1.0000' / 1"	CHECKED - MAM	REVISED -
PLOT DATE = 6/2/2016	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

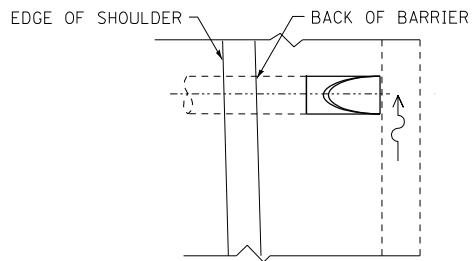
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STA.	TO STA.		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	129
CONTRACT NO. 60X56				ILLINOIS FED. AID PROJECT

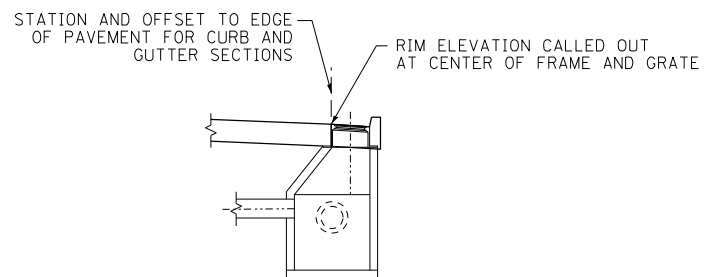
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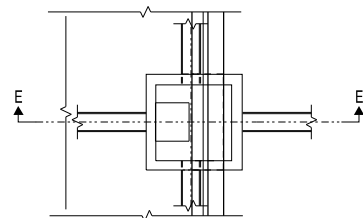
ELEVATION - FLARED END SECTION



PLAN VIEW - FLARED END SECTION

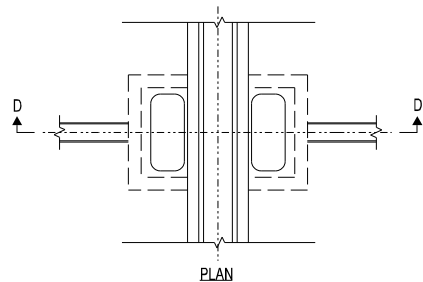


ELEVATION - CATCH BASIN W/CURB & GUTTER



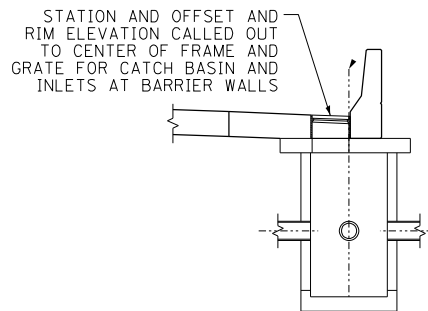
PLAN

PLAN VIEW - CATCH BASINS AT BARRIER WALLS



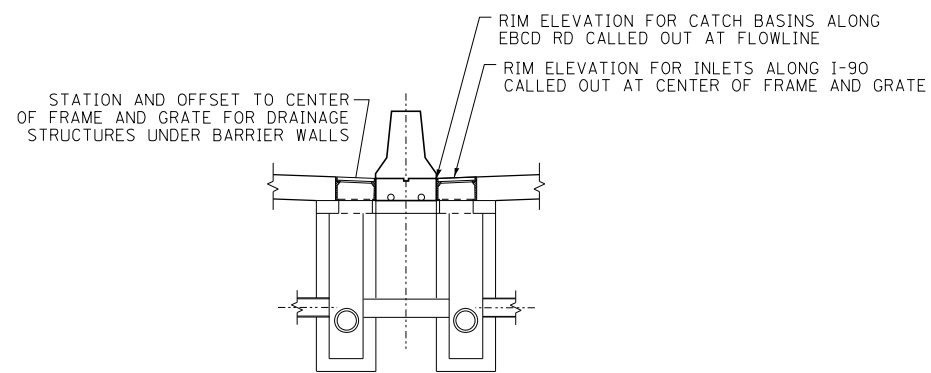
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PLAN VIEW - DRAINAGE STRUCTURES UNDER BARRIER WALLS



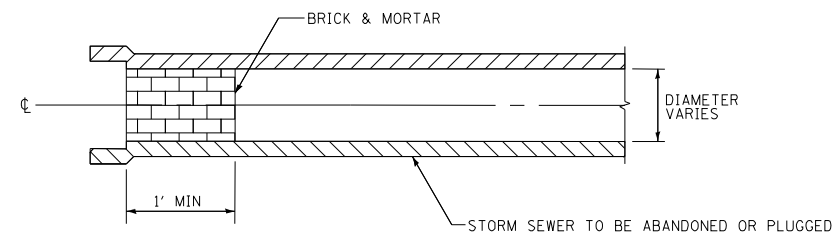
SECTION E-E

ELEVATION - CATCH BASINS AT BARRIERS WALLS



SECTION D-D

ELEVATION - DRAINAGE STRUCTURES UNDER BARRIER WALLS



STORM SEWER TO BE ABANDONED OR PLUGGED

NOTE:
THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE STORM SEWER ITEMS.

STORM SEWER PLUG

FILE NAME: p:\m\156\156\mto\p\Drawings\Documents\Chicago\Projects\30120\1-190_Cumberland\Drawings\CADD\Contract\60X56\CADD_Sheets\0156X56_sht-tr-andie.dgn



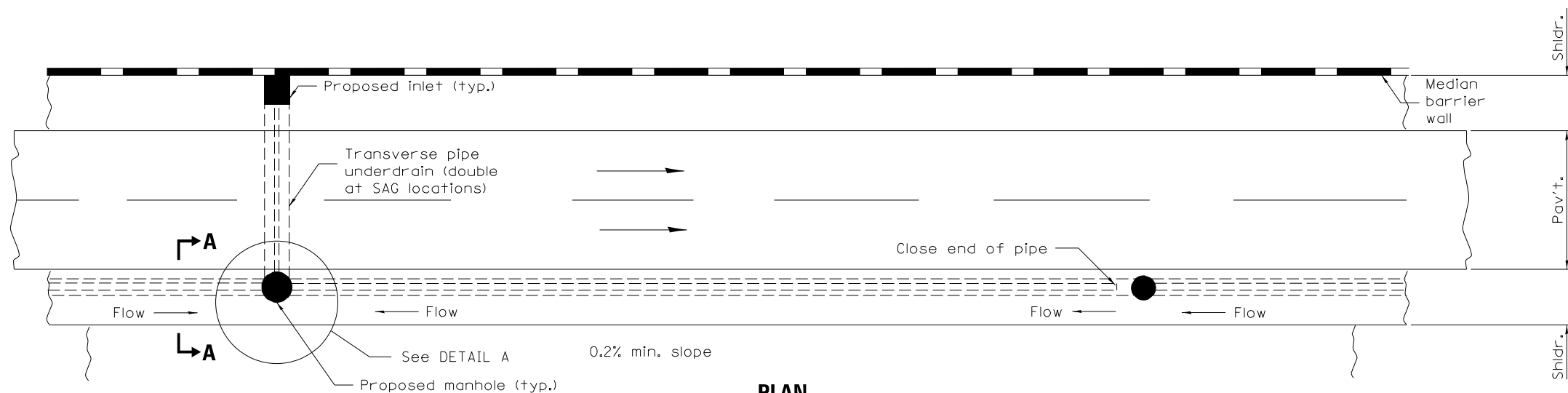
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

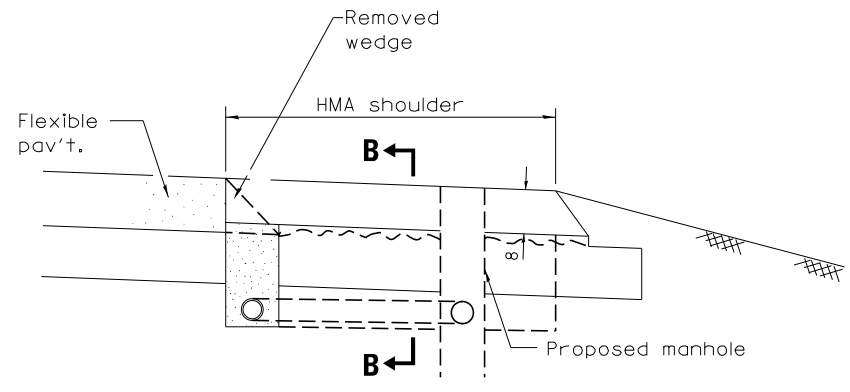
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT				

DPD-01

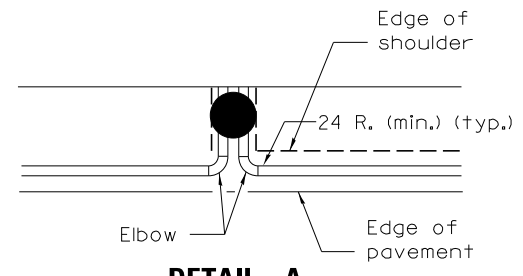


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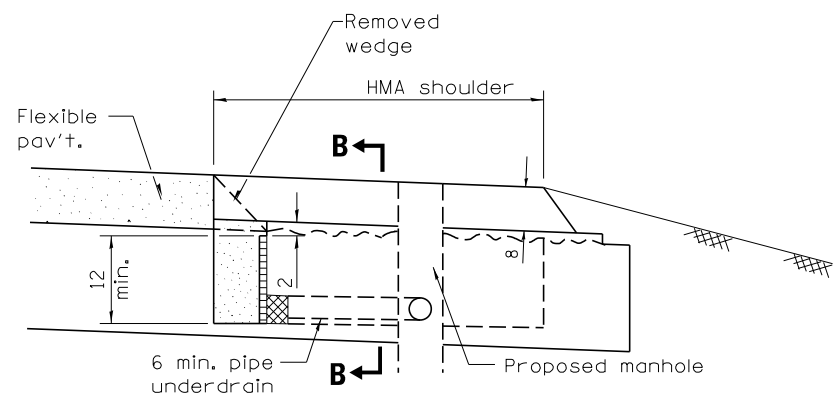


**SECTION A-A
(HMA SHOULDER)**

(Dimensions and notes not shown shall be as shown in the above Section A-A)



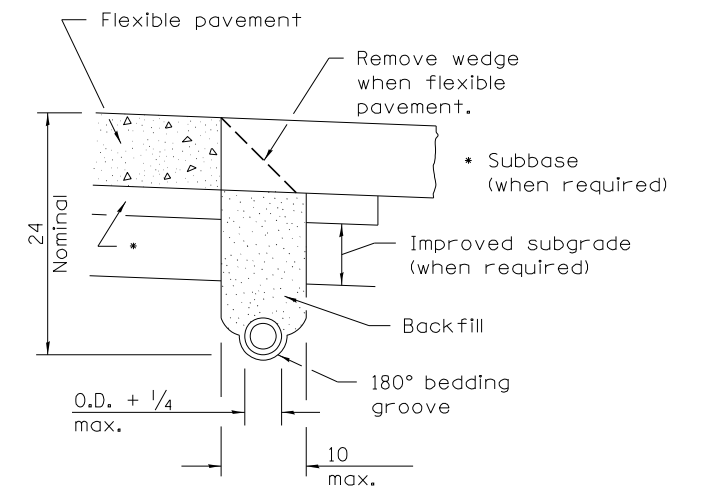
DETAIL A



**SECTION A-A
(HMA SHOULDER)**

(Dimensions and notes not shown shall be as shown in the above Section A-A)

**NEW CONSTRUCTION
(TRENCH FOR DRAINAGE MAT UNDERDRAIN OPTION)**



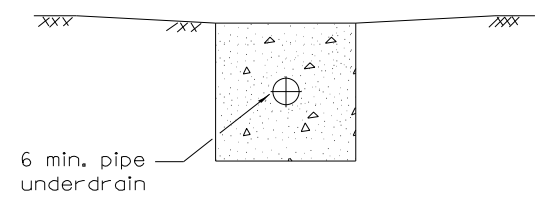
**TRENCH FOR CORRUGATED POLYETHYLENE
TUBING ALTERNATE**

GENERAL NOTES

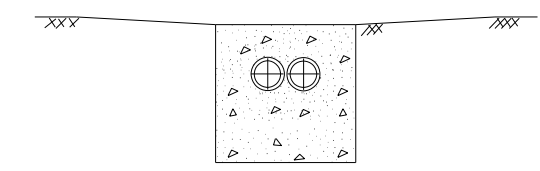
See Standards 482001, 482006 and 483001 for details of shoulders not shown.

The 24 radius on the drainage fitting is only a minimum. Larger radii meeting the approval of the Engineer may be substituted.

All dimensions are in inches unless otherwise shown.



SECTION B-B



**SECTION B-B
(Sag locations)**

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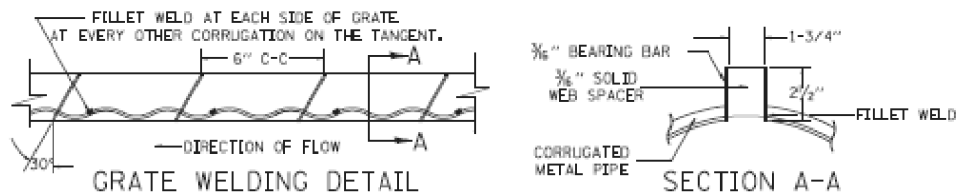
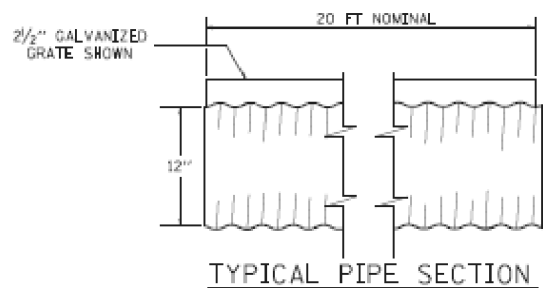
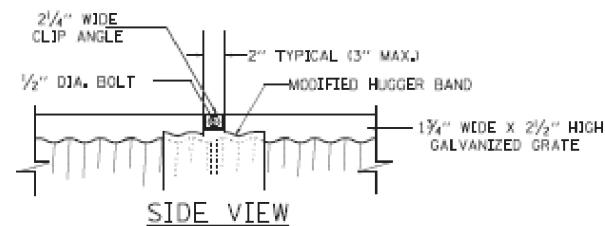
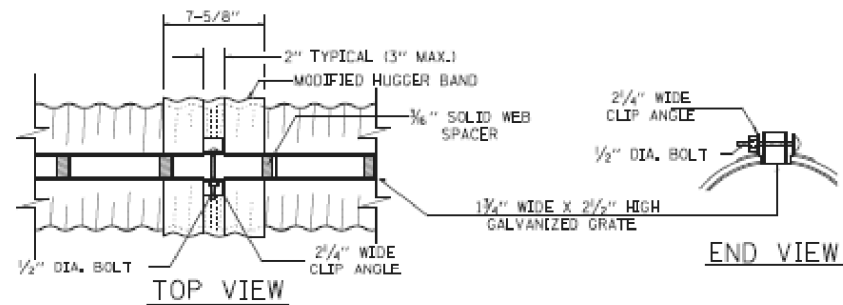
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	DRAWN -	REVISED -
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PLOT DATE = 4/27/2016	DATE = 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CUMBERLAND FLYOVER PROJECT DRAINAGE PIPE UNDERDRAIN DETAIL			
SCALE: NTS	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	133
			CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT				

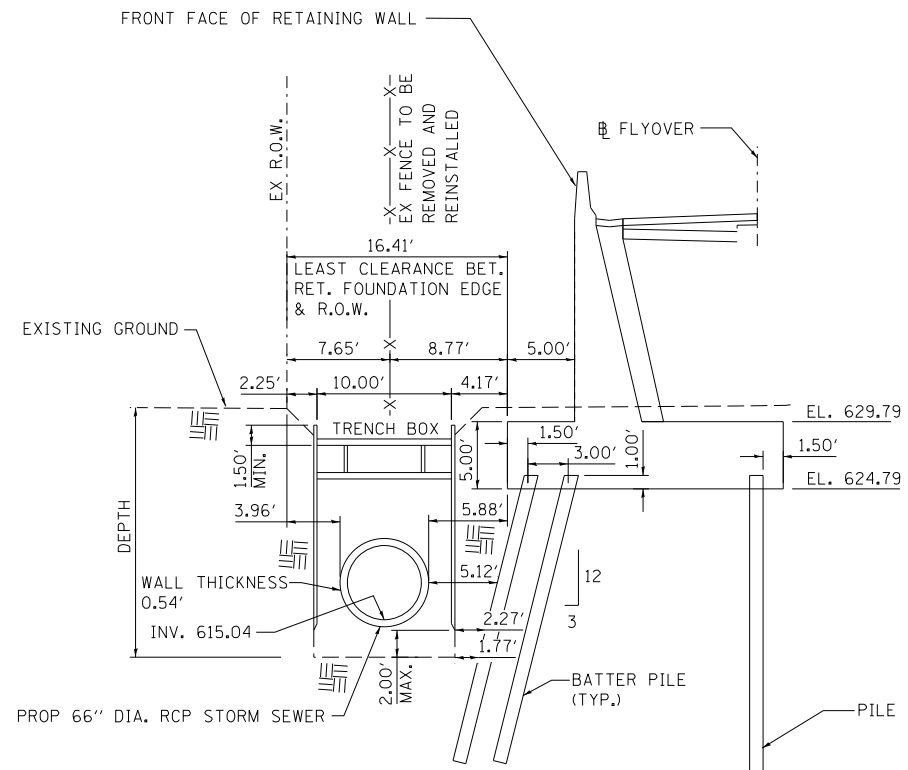
DPD-02



NOTES

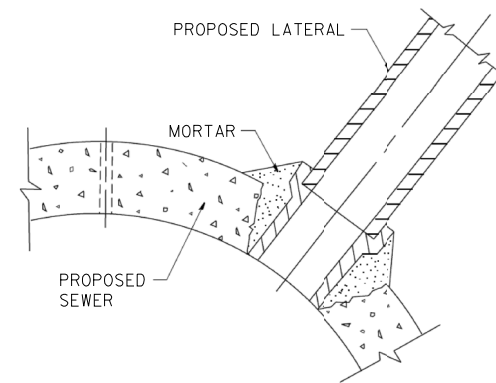
- CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
- THE SLOTTED DRAIN SHALL BE CORRUGATED PIPE CULVERT WITH INTEGRAL SLOTTED DRAINS. BEFORE PLACING THE CONCRETE ADJACENT TO THE PIPE, THE SLOT SHALL BE COVERED BY EITHER THIN, FLAT METAL SHEETING OR BY A BOARD NOTCHED TO FIT OVER THE GRATE BARS. THIS COVERING MUST FIT CLOSELY IN THE SLOT TO PREVENT ENTRY OF CONCRETE INTO THE PIPE.
- PAVING OVER THE SLOTTED DRAIN WILL THEN BE ONE CONTINUOUS OPERATION OVER THE PROTECTED DRAIN. THE PROTECTION FOR THE DRAIN SLOT SHALL THEN BE REMOVED. THE PIPE SHALL DRAIN INTO THE SIDE OF THE INLET.
- THE OPENING WHERE THE SLOT IS REMOVED SHALL BE COVERED TO PREVENT CONCRETE FROM ENTERING THE PIPE.
- THE CORRUGATED STEEL PIPE USED IN THE SLOTTED DRAIN SHALL MEET THE REQUIREMENTS OF AASHTO M-36/ASTM A 760. THE CMP SHALL BE GALVANIZED OR ALUMINIZED STEEL TYPE 2. STEEL GRATING SHALL MEET THE GALVANIZING REQUIREMENTS OF AASHTO M-111. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR SLOTTED DRAIN PIPE, AND SHALL INCLUDE ELBOWS.
- USE APPROVED END CAP TO PREVENT CONCRETE ENTRY INTO THE PIPE DURING CUTTER CONSTRUCTION ON THE UPSTREAM END OF PIPE.
- DIMENSIONS ARE SUBJECT TO THE FOLLOWING MANUFACTURING TOLERANCES:
 1. VERTICAL BOW $\pm 1/8$ "
 2. HORIZONTAL BOW $\pm 5/8$ "
 3. TWIST $\pm 1/2$ "

SLOTTED DRAIN DETAILS



66" DIA. RCP SEWER ADJACENT TO RETAINING WALL 4 @ STA. 26+30.24

SCALE: N.T.S.
 PILE TYPE: 12" METAL SHELL CAST-IN-PLACE CONCRETE PILES WITH WALL THICKNESS = 1/4"
 ESTIMATED PILE LENGTH = 22'



LATERAL CONNECTION TO PROPOSED SEWER

SCALE: N.T.S.

FILE NAME: \\hntb\p0556\hntb\p0556\Documents\Chicago\Projects\30120-1-190_Cumberland\Drawings\CADD\Contract\60X56\CA00_Sheets\0160X56\sh11-01-16\sh11-01-16.dgn



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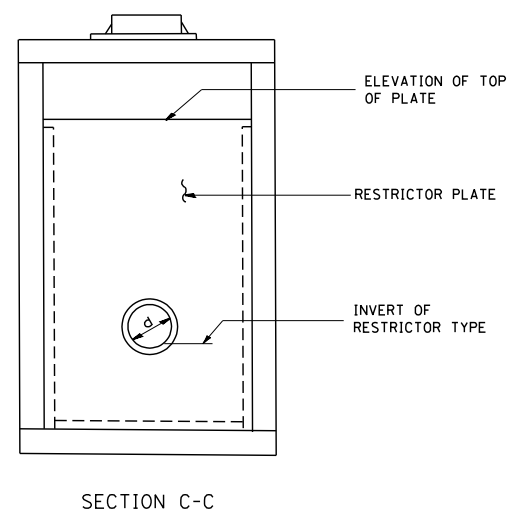
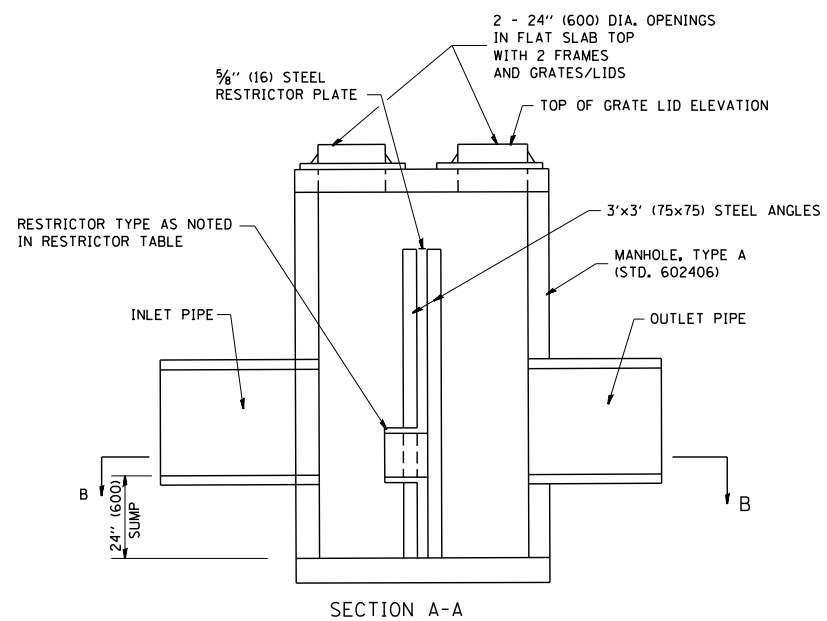
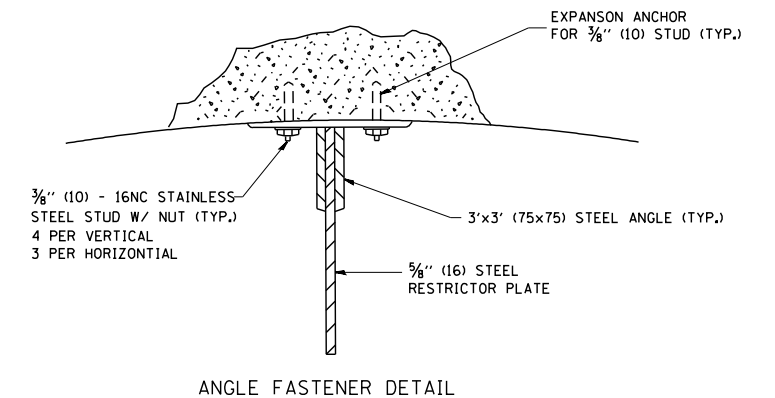
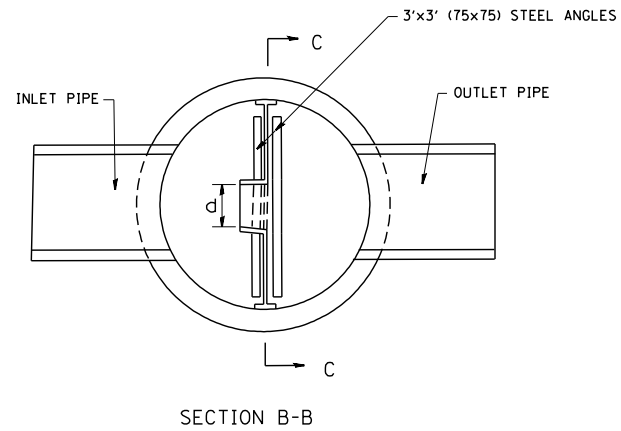
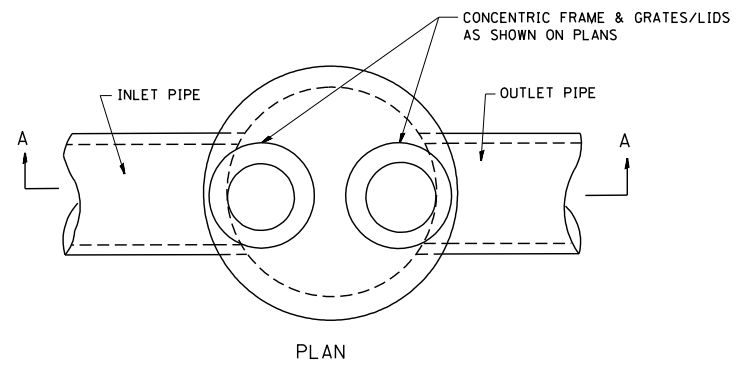
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRAINAGE DETAILS

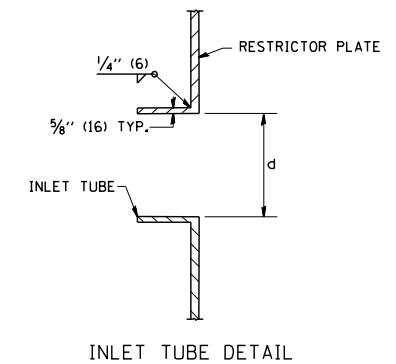
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	134
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

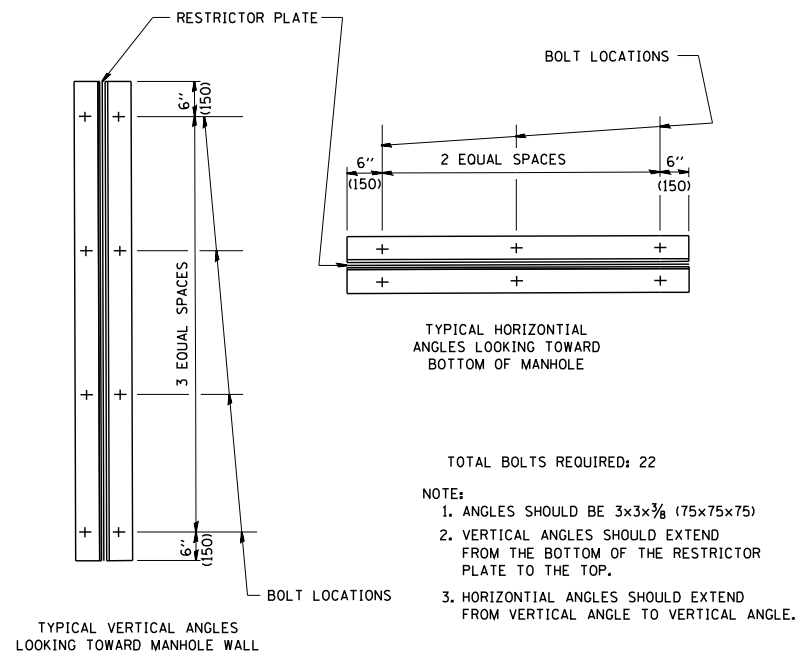
DPD-03



- NOTES:
- ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
 - ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
 - BASIS OF PAYMENT: "MANHOLES, TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER in. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW
504+50	6'	T1F, CL	2	18	616.80	617.76



RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: 1/2 TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98
VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES					

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		DRAWN -	REVISED - E. GOMEZ 08-28-00
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	PLOT DATE = 1/4/2008	DATE - 09-09-94	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MANHOLE WITH
RESTRICTOR PLATE

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	135
BD600-04 (BD-12)			CONTRACT NO. 60X64	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DPD-04

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

CHICAGO DEPARTMENT OF WATER (WATER MAIN INSTALLATION NOTES)

LOCATION OF UTILITIES AND PROPERTY LINES ARE FROM THE BEST INFORMATION AVAILABLE. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED.

THE CONTRACTOR MUST VERIFY THE LOCATION OF UNDERGROUND UTILITIES WITH THE UTILITY OWNERS PRIOR TO DOING ANY WORK IN THE VICINITY. THE CONTRACTOR MUST COMPLY WITH REQUIREMENTS OF UTILITY OWNERS REGARDING NOTICE OF WORK AND PROTECTION OF UTILITIES.

FITTINGS AND THEIR LOCATIONS INDICATED ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR LAYING OUT ALL PROPOSED HORIZONTAL AND VERTICAL LOCATIONS OF PROPOSED WATER MAIN AND FITTINGS PRIOR TO INSTALLATION. THE CONTRACTOR MUST COMPLETE THE INSTALLATION WITH THE NECESSARY FITTINGS DICTATED BY FIELD CONDITIONS. NO ADDITIONAL PAYMENT WILL BE MADE FOR DEVIATIONS FROM THE INDICATED FITTINGS.

WORK INDICATED ON THE PLANS AND NOT REFERENCED TO A BID ITEM IS CONSIDERED INCIDENTAL TO THE WORK TO WHICH IT APPLIES AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

WATER MAIN AND FITTINGS LOCATIONS SHOWN ON THE DRAWINGS FOR THE NEW WATER MAINS AND APPURTENANCES MAY BE CHANGED BY THE COMMISSIONER (ENGINEER)

DUE TO FIELD CONDITIONS, NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR SUCH CHANGES, UNLESS PREVIOUSLY APPROVED BY THE COMMISSIONER (ENGINEER).

THE CONTRACTOR MUST PROVIDE THRUST RESTRAINTS IN ACCORDANCE WITH THE SPECIFICATIONS. THE CONTRACTOR MUST FURNISH AND INSTALL MECHANICAL JOINT THRUST RESTRAINT GLANDS ON ALL WATER MAINS.

THE OPERATION OF ALL VALVES MUST BE PERFORMED BY CITY FORCES PURSUANT TO A 72 HOUR ADVANCE NOTIFICATION TO THE DEPARTMENT.

ALL OPENINGS IN EXISTING WATER MAINS MUST BE PLUGGED OR CAPPED WITH DUCTILE IRON FITTINGS UNTIL THE MAIN IS ABANDONED.

ALL VALVE BASINS MUST BE CONSTRUCTED OF PRE-CAST REINFORCED CONCRETE UNLESS DIRECTED OTHERWISE BY THE COMMISSIONER (ENGINEER).

NOTES INDICATING S.N.L., E.W.L., ETC., MEAN SOUTH OF THE NORTH PROPERTY LINE, EAST OF THE WEST PROPERTY LINE, ETC. AND ARE MEASURED FROM THE NEAREST STREET.

IF A STANDARD MECHANICAL JOINT SLEEVE DOES NOT FIT TO MAKE CONNECTION OF THE NEW PIPE TO THE EXISTING PIPE, A TRANSITION SLEEVE MUST BE USED. NO GRINDING OF THE EXISTING PIPE IS PERMITTED.

THE CONTRACTOR MUST COMPLY WITH THE CITY OF CHICAGO, DEPARTMENT OF TRANSPORTATION DAMAGE PREVENTION PROTOCOL CITY INFRASTRUCTURE DEPARTMENTS. ALL UTILITIES MUST BE NOTIFIED AT LEAST 48 HOURS BEFORE CONSTRUCTION. (CALL DIGGER 312-744-7000).

TEST PITS MUST BE EXCAVATED IN ADVANCE OF PIPELINE CONSTRUCTION IN ORDER TO CONFIRM DEPTH AND LOCATION OF EXISTING UTILITIES AND WHEN DIRECTED BY THE DEPARTMENT MANAGER. NO ADDITIONAL PAYMENT WILL BE MADE FOR TEST PIT EXCAVATION. IF ANY PUBLIC OR PRIVATE UTILITIES CROSS THE WATER MAIN TRENCH, PROVIDE EROSION CONTROL IN ACCORDANCE WITH THE SPECIFICATIONS AND MUST REMAIN IN PLACE. THE CONTRACTOR MUST PROTECT SAID UTILITY IN CONFORMANCE WITH THE SPECIFICATIONS OR AS DIRECTED BY THE COMMISSIONER (ENGINEER).

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADVANCED NOTICE OF WATER MAIN SHUT DOWN TO ALL AFFECTED CONSUMERS.

CHICAGO DEPARTMENT OF WATER (WATER MAIN INSTALLATION NOTES) (CONT.)

WORK WITHIN STATE ROUTES ARE NOTED ON THE DRAWINGS AND WILL REQUIRE IDOT, REGION 1, UTILITY PERMITS. THE CONTRACTOR IS RESPONSIBLE FOR SECURING ALL PERMITS, INITIATED BY THE DEPARTMENT AND OBTAINING PERFORMANCE BONDS. ALL WORK MUST BE IN ACCORDANCE WITH IDOT PERMIT REQUIREMENTS. QUESTIONS SHOULD BE DIRECTED TO IDOT REGION ONE UTILITIES COORDINATOR AT (847) 705-4258.

ABANDON EXISTING WATER MAINS IN ACCORDANCE WITH THE SPECIFICATIONS.

SWAB PIPE-FITTINGS THAT WILL NOT BE PRESSURE TESTED OR CHLORINATED WITH CHLORINE SOLUTION DURING INSTALLATION. USE EXTRA PRECAUTION TO PREVENT SOIL DEBRIS FROM ENTERING THE PIPE. INCORPORATE UNTESTED PIPE INTO THE FLUSHING ROUTINE WHEN POSSIBLE. WHEN CONNECTING NEW PIPE TO THE EXISTING WATER SYSTEM.

USE OPERATING PRESSURE TO VISUALLY INSPECT FOR LEAKS. PERFORM INSPECTION PRIOR TO BACKFILLING. COMPLY WITH ALL STANDARDS AND REQUIREMENTS OF THE BUREAU OF WATER QUALITY (312) 744-8190.

CONTACT JOHN BARBARO AT JOHN.BARBARO@CTRWATER.NET TWO (2) WEEKS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION DATE SUCH THAT A RESIDENT ENGINEER CAN BE ASSIGNED TO THIS PROJECT. FAILURE TO COMPLY WITH THIS REQUIREMENTS MAY RESULT IN ADDITIONAL EXPENSES TO THE PROPOSED PROJECT TO VERIFY THAT ALL WORK CONFORMS TO DWM'S STANDARDS.

THE CONTRACTOR MUST COORDINATE WITH THE DWM, PRIOR TO THE SUBMISSION OF THE SHOP DRAWINGS FOR ALL MATERIALS TO BE USED, TO ENSURE CURRENT REQUIREMENTS ARE BEING MET.

THE CONTRACTOR MUST OBTAIN A "B-PERMIT" PRIOR TO CONSTRUCTION FROM THE CITY OF CHICAGO, DEPARTMENT OF BUILDINGS, PLUMBING PERMIT & PLAN SECTION, CITY HALL, 121 N La SALLE STREET, ROOM 906. CONTACT THE CHIEF PLUMBING INSPECTOR AT (312) 744-7017 TO COORDINATE WORK AND SCHEDULE INSPECTION.

ALL VALVE OPERATIONS ARE TO BE COMPLETED BY THE DWM.

IF CONSTRUCTION REQUIRES THE USE OF WATER FROM A CITY FIRE HYDRANT, PERMITS MUST BE OBTAINED FROM THE CITY OF CHICAGO, DEPARTMENT OF BUILDINGS, PLUMBING PERMIT & PLAN SECTION, CITY HALL, 121 N La SALLE STREET, ROOM 906.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING-OUT ALL PROPOSED HORIZONTAL AND VERTICAL FACILITIES FOR THE DWM AS REQUIRED FOR CONSTRUCTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS, EXCAVATION/OSHA SHORING, BACKFILLING/COMPACTION, AND ALL RESTORATION TO CDOT STANDARDS AS REQUIRED FOR CONSTRUCTION PER THE DWM INVOLVEMENT LETTER FOR THIS PROJECT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WATER SERVICES AND FIRE PROTECTION DURING CONSTRUCTION.

THE CONTRACTOR SHALL MAINTAIN DRAINAGE AT ALL TIMES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND ELEVATIONS OF ALL THE UTILITIES FROM THE OWNERS OF THE RESPECTIVE UTILITIES.

THE CONTRACTOR IS RESPONSIBLE FOR RESOLVING ANY UTILITY CONFLICTS, AND/OR VERIFYING THAT ANY UTILITY IN CONFLICT WITH THE PROPOSED WATER MAIN HAS BEEN RELOCATED.

THE CONTRACTOR SHALL PROVIDE THE DWM AND WITH TWO COPIES OF A REDLINE MARKED-UP AS-BUILT DRAWING OF THE WATER MAIN INSTALLATION WITH ANY DESIGN CHANGES THAT HAVE BEEN MADE. THIS DRAWING SHALL NOTE EXACT LOCATIONS OF THE WATER MAINS, VALVES, FITTINGS, CONNECTIONS TO EXISTING WATER MAINS, SERVICES, AND ANY SPECIAL INSTALLATIONS. LOCATIONS SHALL BE REFERENCED TO STREET RIGHT-OF-WAYS, AND THE DEPTH OF COVER SHALL ALSO BE INDICATED. THE AS-BUILT SHALL BE SIGNED AND DATED BY THE CONTRACTORS PROJECT COORDINATOR, ALONG WITH THEIR CONTACT INFORMATION.

GENERAL NOTES

THE CONTRACTOR SHALL SUBMIT PROCESS PLANS FOR EXCAVATING OR INSTALLING TEMPORARY EARTH RETENTION STRUCTURES TO THE DWM AND CTA FOR REVIEW AND APPROVAL.

HAND EXCAVATION IS REQUIRED TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING 24-INCH WATER MAIN PRIOR TO CONSTRUCTION. A REPRESENTATIVE OF THE DWM MUST BE ON SITE DURING EXCAVATION NEAR FEEDER MAINS. A TYPE II TEMPORARY SUPPORT FOR THE EXISTING 24-INCH WATER MAIN MUST BE INSTALLED PER DEPARTMENT OF WATER MANAGEMENT DETAIL A-1. CONTACT JOHN BARBARO AT JOHN.BARBARO@CTRWATER.NET TWO WEEKS PRIOR TO THE ANTICIPATED CONSTRUCTION DATE SO A DWM REPRESENTATIVE CAN BE ASSIGNED TO THE PROJECT. THE TRENCH MUST BE BACKFILLED TO THE SPRINGLINE OF THE WATER MAIN WITH CLSM BACKFILL (NON FLY ASH), AND CA-16 FROM THE SPRINGLINE OF THE WATER MAIN TO GRADE. USE OF POLYETHYLENE WRAP AS A BOND BREAKER BETWEEN THE WATER MAIN AND THE CLSM BACKFILL IS REQUIRED. ONCE CONSTRUCTION IS COMPLETE THE TEMPORARY SUPPORT STRUCTURE MUST BE DISMANTLED AND REMOVED PER DEPARTMENT OF WATER REQUIREMENTS, STANDARDS, AND SPECIFICATIONS. FAILURE TO COMPLY WITH THESE REQUIREMENTS MAY RESULT IN ADDITIONAL EXPENSES TO THE PROPOSED PROJECT TO VERIFY THAT ALL WORK CONFORMS TO DWM STANDARDS. EXTREME CAUTION MUST BE TAKEN TO AVOID DAMAGE TO ANY WATER FACILITIES. IF DAMAGE OCCURS TO THIS DEPARTMENT'S FACILITIES, THE CONTRACTOR AND/OR OWNER WILL BE RESPONSIBLE FOR THE COST OF REPAIRING OR REPLACING THE DAMAGED FACILITIES.



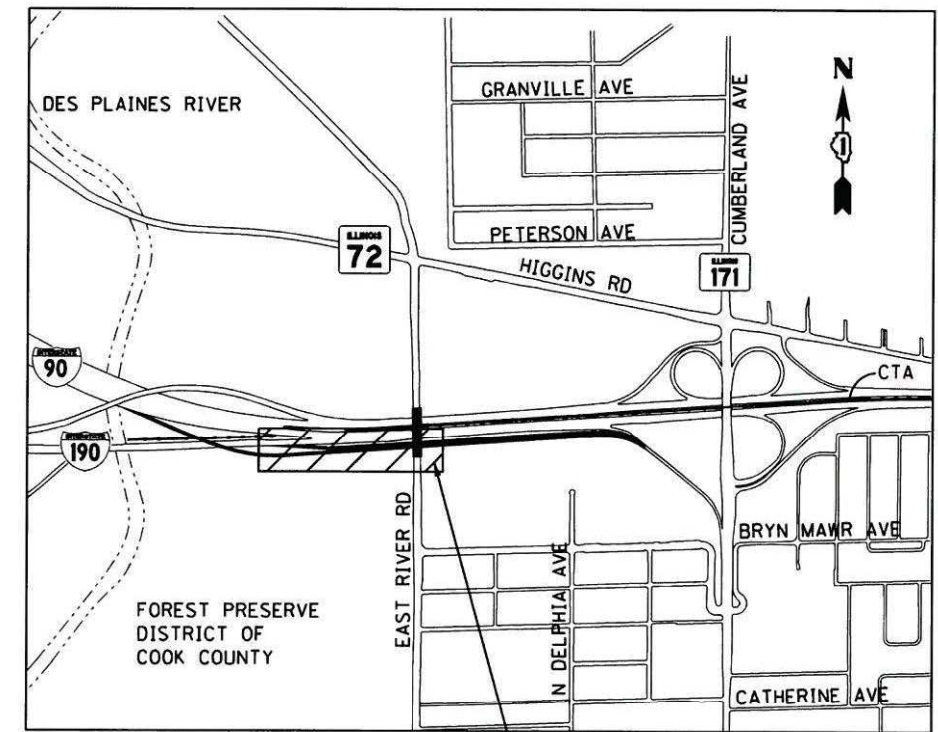
COLLINS ENGINEERS, INC.
RYAN GALL
NO. 062-064397
EXPIRES 11-30-2017
FOR WATER MAIN PLANS ONLY

SCHEDULE OF QUANTITIES

CODE	PAY ITEM	UNIT	LOCATION NO. 3
56103100	DUCTILE IRON WATER MAIN 8"	FOOT	1395
X5610651	ABANDON EXISTING WATER MAIN, FILL WITH CLSM	FOOT	1525
X0325003	REMOVE EXISTING VALVE AND VAULT	EACH	1
	STEEL CASING PIPE, BORED AND JACKED, 16"	FOOT	470
	WATER METER IN VAULT, 8 INCH	EACH	1

BILL OF MATERIALS

- 565' OF 8" DI RESTRAINED JOINT PIPE
- 830' OF 8" DI PIPE
- 470' OF 16" STEEL CASING PIPE
- 2-8" 2BMJ 1/4 BEND
- 4-8" 2BMJ 1/8 BENDS
- 5-8" 2BMJ 1/16 BENDS
- 2-8" MJ TRANSITION SLEEVE
- 1-8" COMPOUND METER WITH CHECK VALVE IN VAULT



FILE NAME = \$FILES



USER NAME = rgall	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/18/2016	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION
GENERAL NOTES

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	136
CONTRACT NO. 60X56				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	ALIGNED	
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	DATE	
	FILE NAME	

WATERMAIN NOTES:

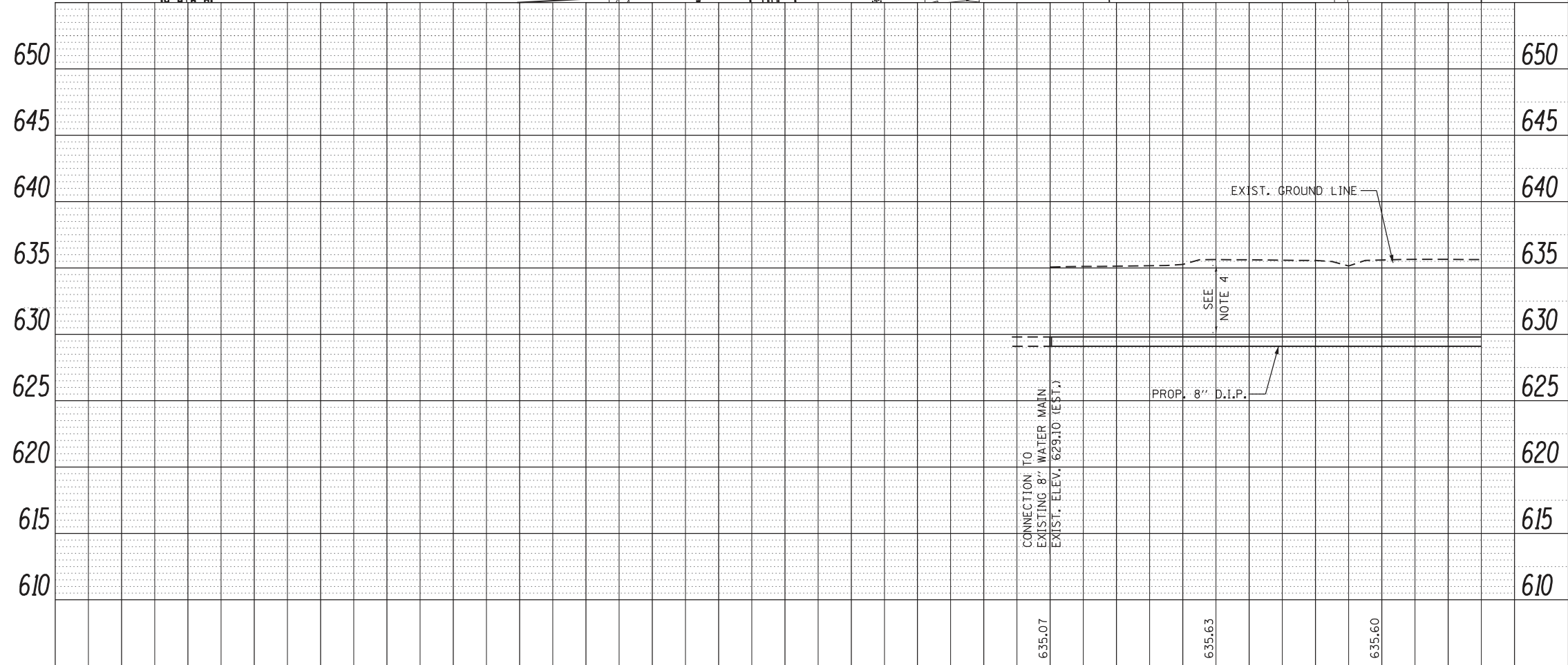
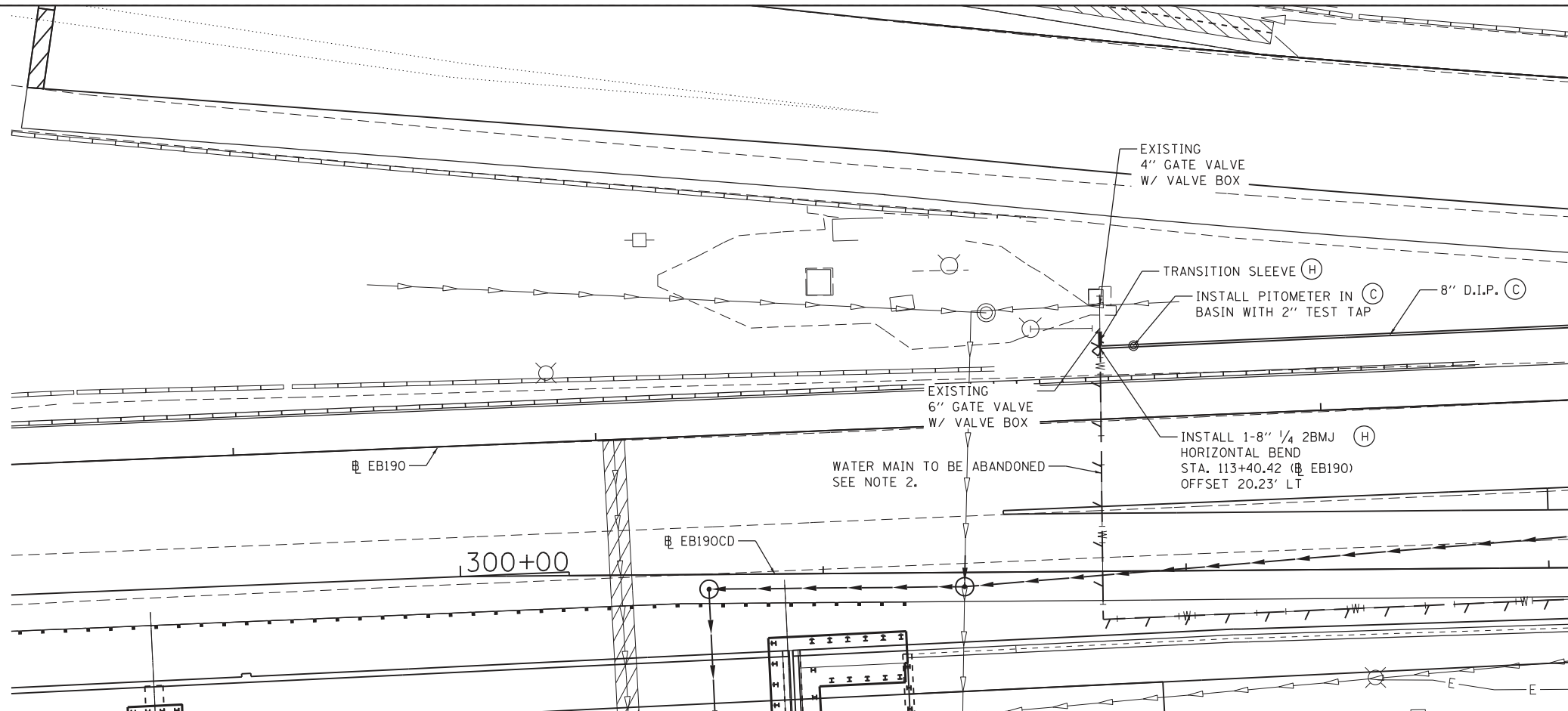
- CHICAGO DEPARTMENT OF WATER MANAGEMENT (CDWM) SHALL BE PRESENT WHEN MAKING ALL FINAL CONNECTIONS TO EXISTING WATER MAINS.
- EXISTING WATER MAINS TO BE ABANDONED SHALL BE FILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM).
- SEPARATION BETWEEN WATER MAINS AND SEWERS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CDWM AND IEPA.
- PROVIDE MIN. 5' COVER, TO TOP OF WATERMAIN
- THRUST BLOCKING SHALL BE USED AT ALL BENDS AS PER DETAILS SHOWN IN PLANS.
- THE TIE-IN INVERT OF THE EX. WATERMAIN IS OBTAINED FROM EXISTING PLANS AND IS APPROXIMATE. CONTRACTOR SHALL VERIFY PRIOR TO ORDERING MATERIALS AND MAKING FINAL CONNECTIONS.

PROFILE	SURVEYED	DATE
NOTE BOOK	GRADES CHECKED	BY
NO.	STRUCTURE	
	NOTATIONS	
	CHKD	

CONSTRUCTION SEQUENCING NOTES:

- INSTALL JACKING AND RECEIVING PITS,
- INSTALL STEEL CASING PIPE AND 8" D.I.P. WITHIN CASING PIPE UNDER I-90 & EAST RIVER ROAD INCLUDING:
248' OF 16" STEEL CASING PIPE FROM STA. 115+93.44 (EB190), OFFSET 16.96' LT TO STA. 30+75.89 (EB FLYOVER), OFFSET 0.67' LT 300' OF 8" D.I.P.R.J.P. FROM STA. 115+88.88 (EB190), OFFSET 19.01' LT TO STA. 31+18.22 (EB FLYOVER), OFFSET 22.21' RT 222' OF 16" STEEL CASING PIPE FROM STA. 36+75.18 (EB FLYOVER), OFFSET 16.69' RT TO STA. 3013+44.02 (EX I-90), OFFSET 169.10' RT 265' OF 8" D.I.P.R.J.P. FROM STA. 36+64.14 (EB FLYOVER), OFFSET 15.63' RT TO STA. 3013+77.61 (EX I-90), OFFSET 172.14' RT RESTRAIN ALL JOINTS
- INSTALL 8" D.I.P. ALL HORIZONTAL AND VERTICAL BENDS, PITOMETER IN BASIN WITH 2" TEST TAP, AND 8" COMPOUND METER VALVE AS SHOWN ON THE PLANS. FROM STA. 113+40.42 (EB190), OFFSET 20.23' LT TO STA. 3013+77.52 (EX I-90), OFFSET 189.5' RT
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FILE NAME = 8FILES



USER NAME = r9e11	DESIGNED -	REVISED -
PLOT SCALE = 20,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/21/2016	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

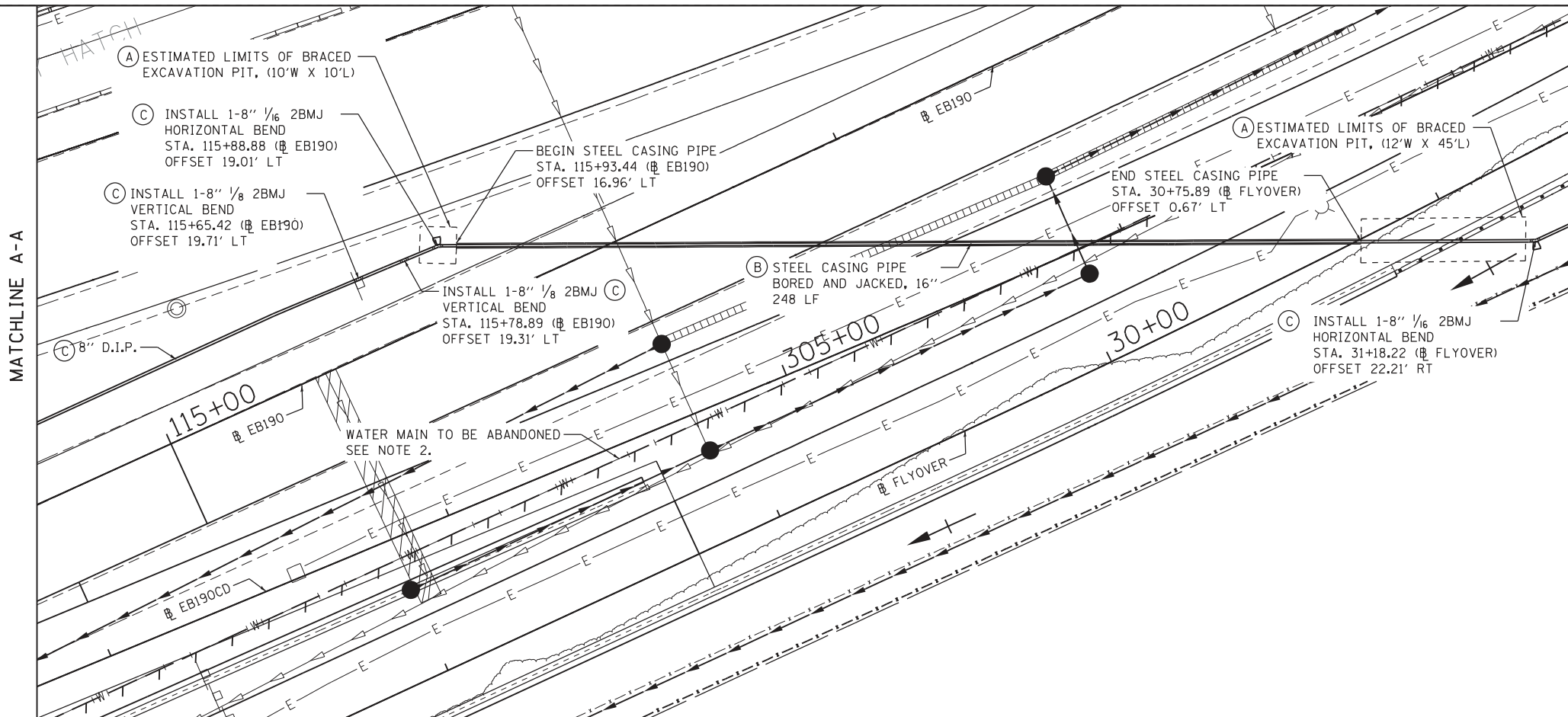
WATER MAIN RELOCATION LOCATION NO. 3			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	137
CONTRACT NO. 60X56				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

WATERMAIN NOTES:

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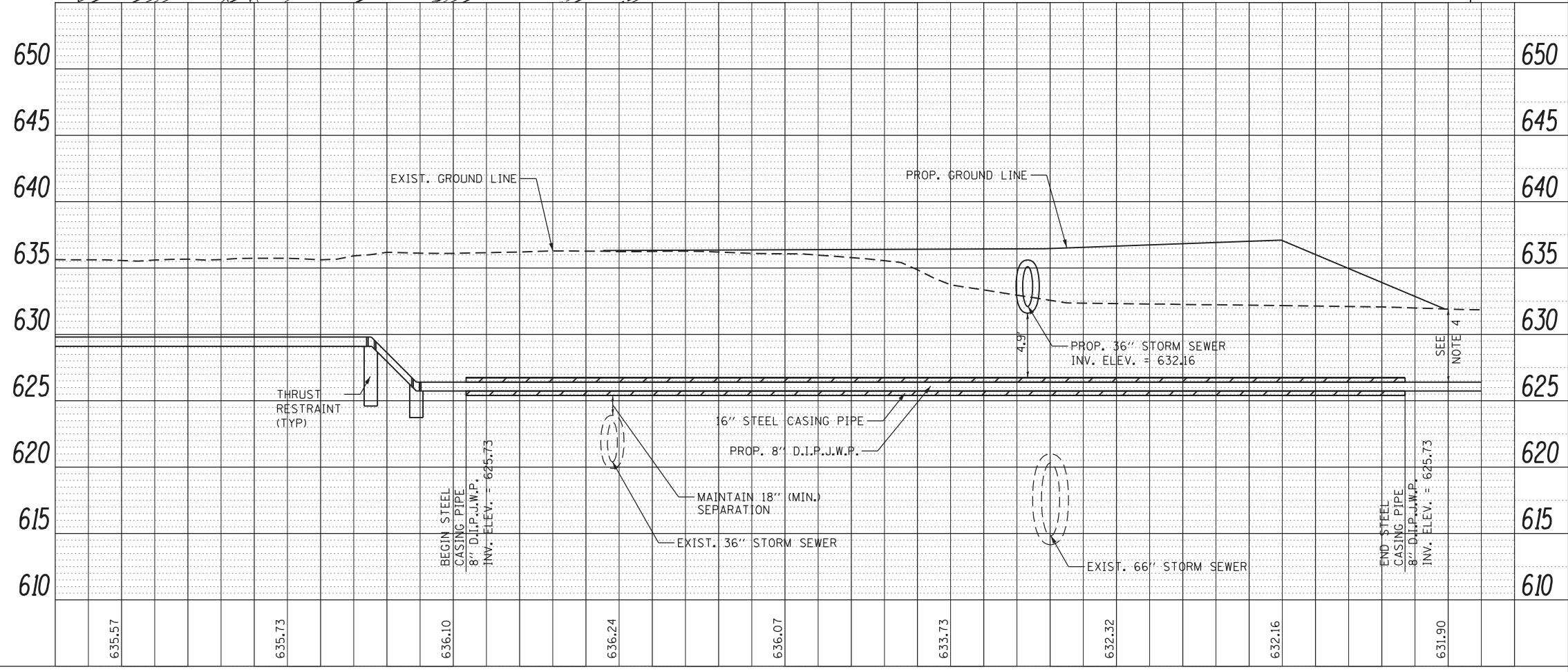
PLAN	SURVEYED	DATE
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NO.	GRADES CHECKED	
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CONSTRUCTION SEQUENCING NOTES:

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NO.	STRUCTURE	
	NOTATIONS	



FILE NAME = 8FILES



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PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/21/2016	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION
LOCATION NO. 3

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	138
CONTRACT NO. 60X56				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
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WATERMAIN NOTES:

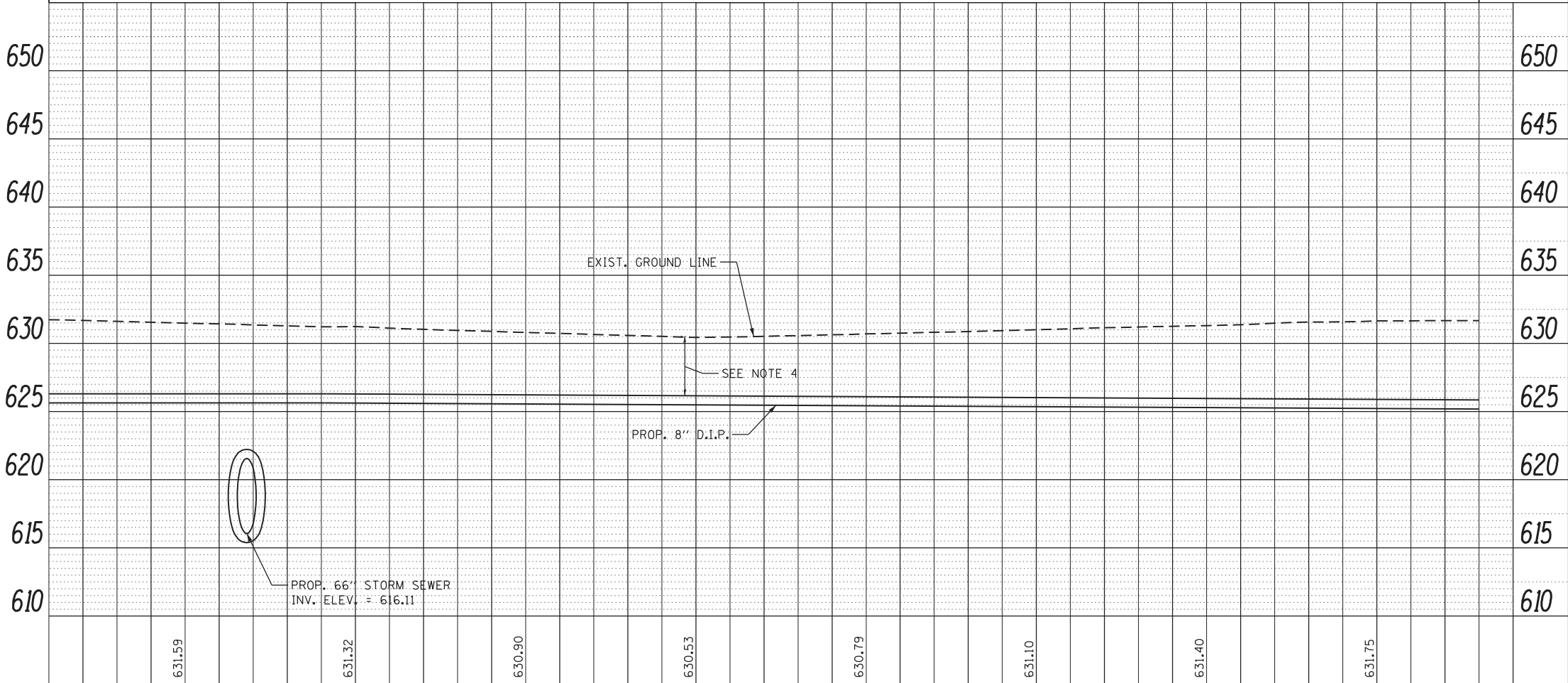
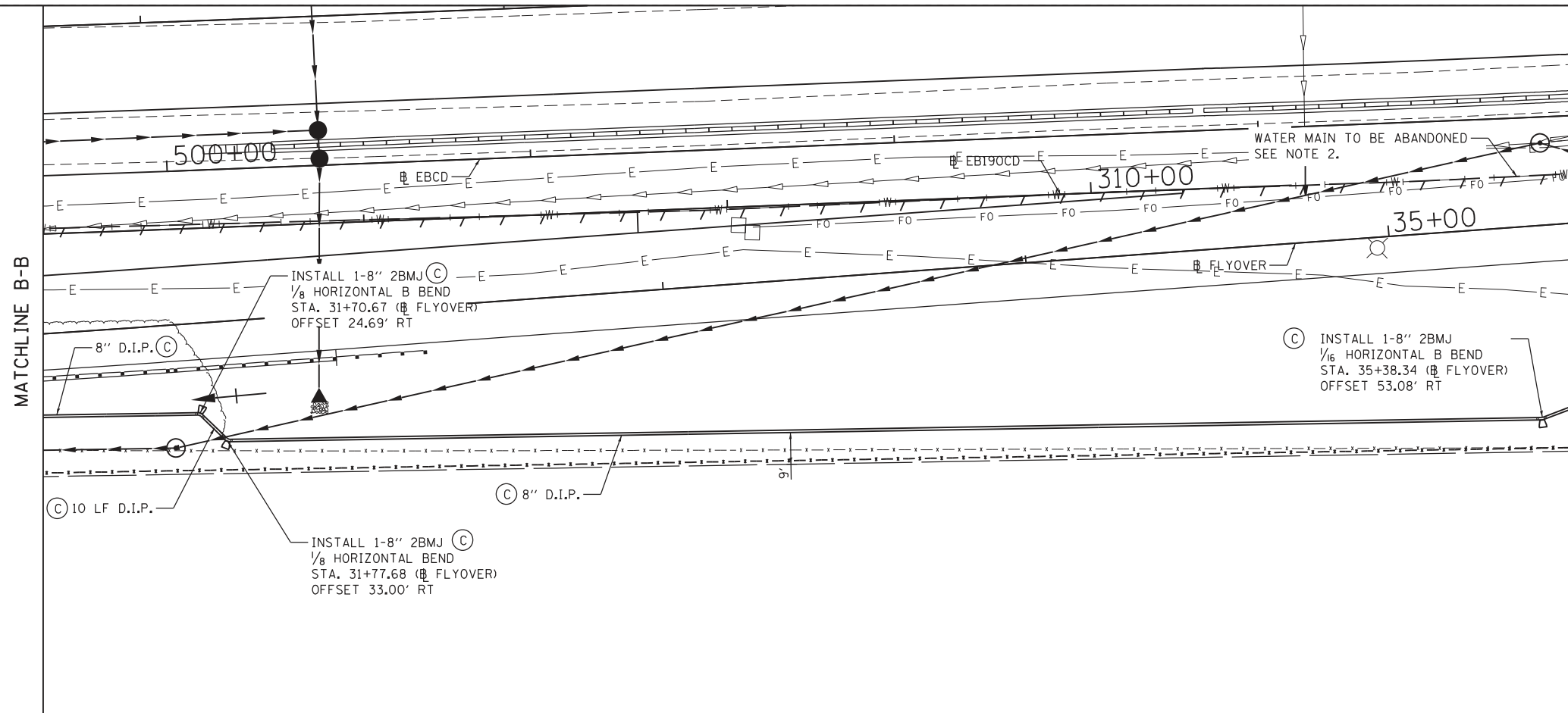
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION			
LOCATION NO. 3			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	139
CONTRACT NO. 60X56				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	GRADES CHECKED	
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	STRUCTURE	
	CADD FILE NAME	

WATERMAIN NOTES:

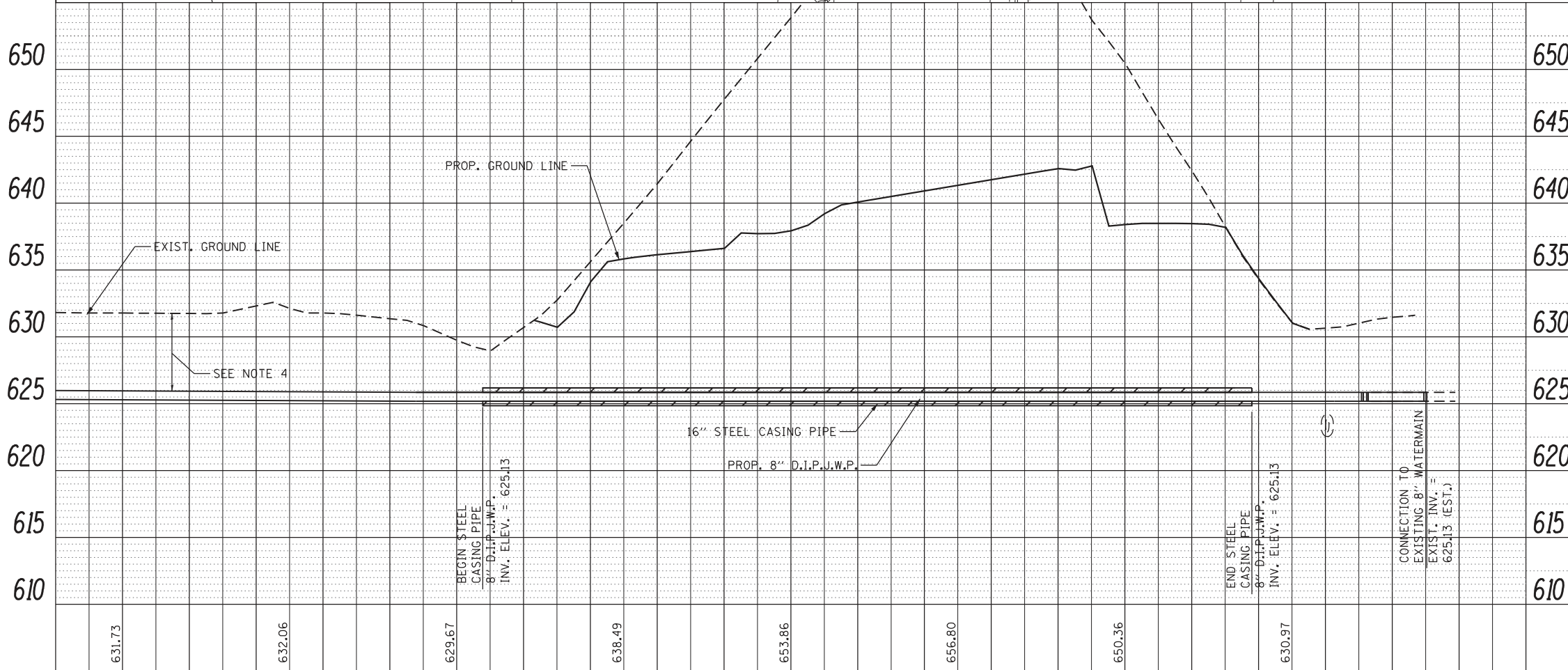
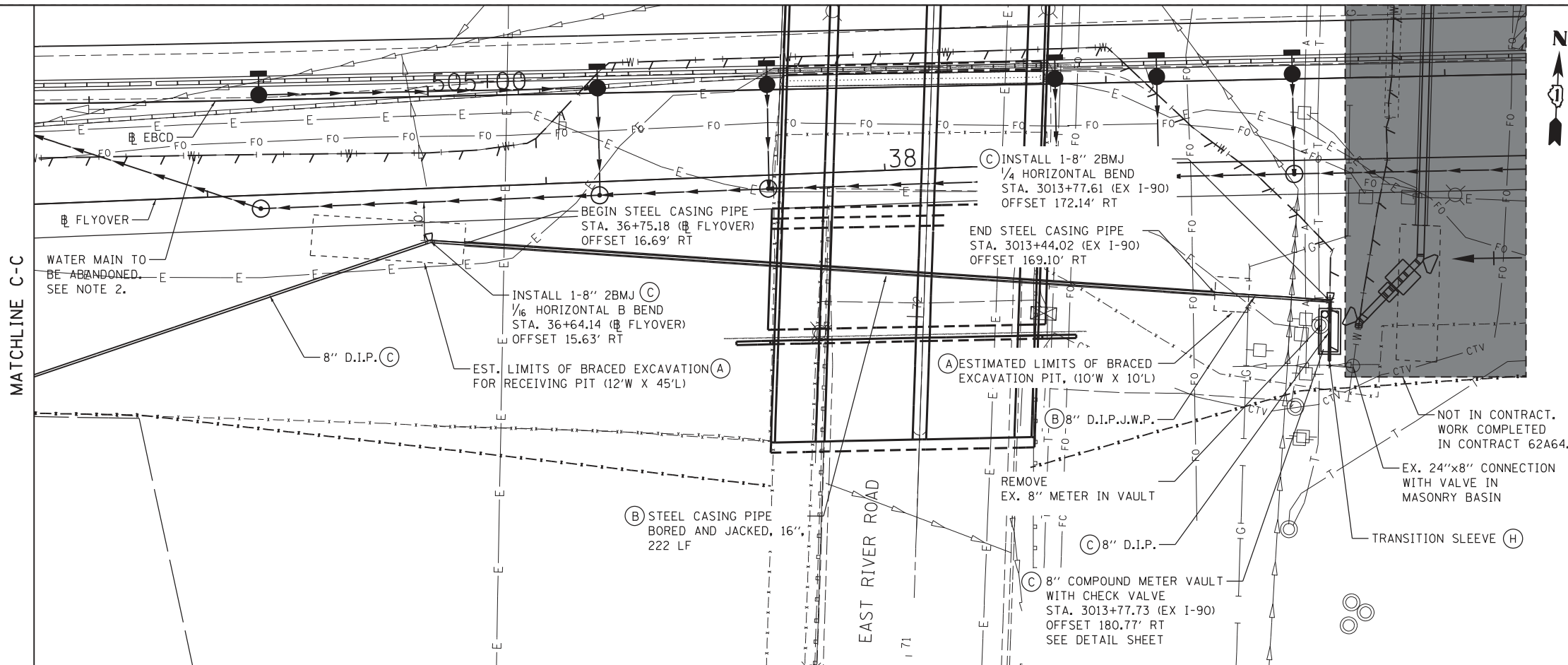
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FILE NAME = 8FILES



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PLOT DATE = 3/21/2016	CHECKED -
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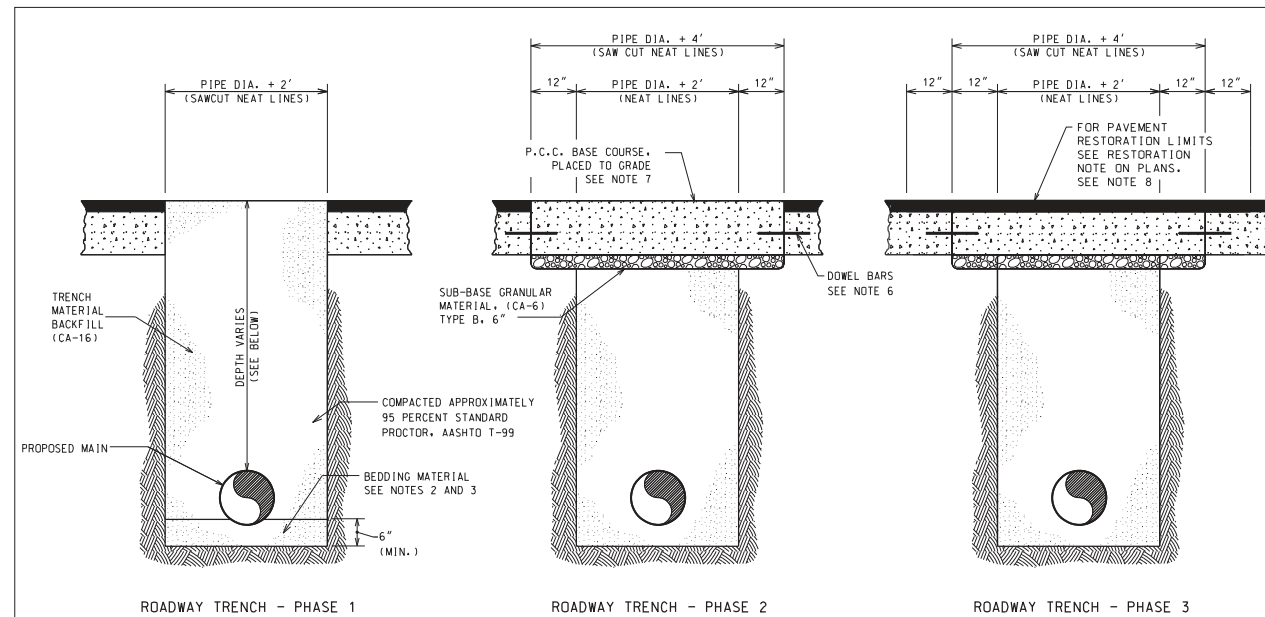
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION
LOCATION NO. 3

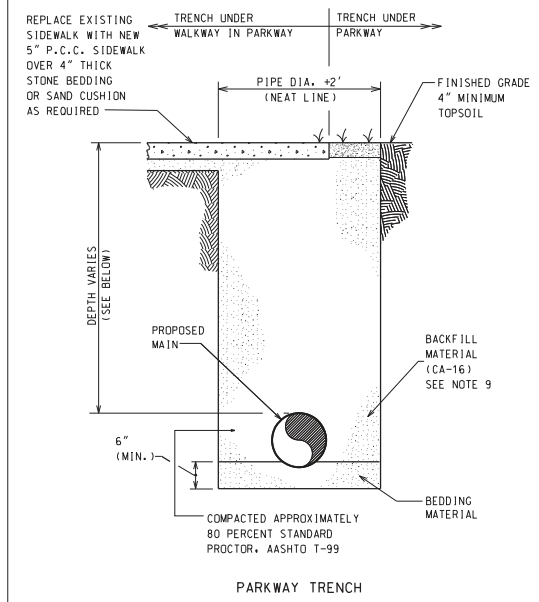
SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.
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F.A.I. RTE. 190	SECTION 1517R-1(13)	COUNTY COOK	TOTAL SHEETS 580	SHEET NO. 140
CONTRACT NO. 60X56				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

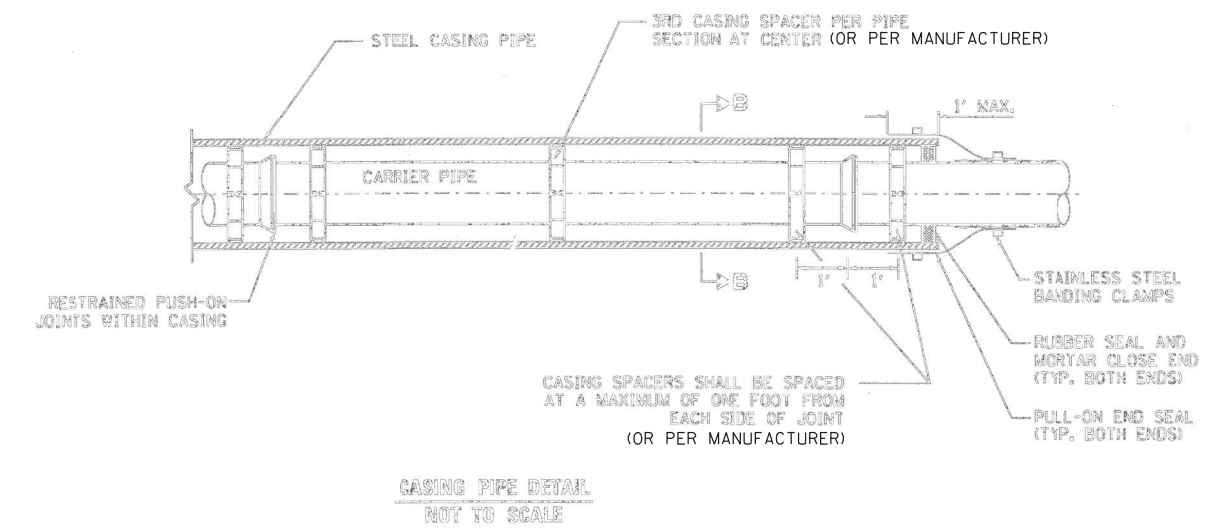


PIPE DEPTH REQUIREMENTS	
MINIMUM DEPTH OF COVER FOR WATER MAINS	DEPTH OF COVER
SIZE OF PIPE	DEPTH OF COVER
3/4" TO 3"	5'-6" ± 3"
4"	5'-6" ± 3"
6"	5'-6" ± 3"
8"	5'-3" ± 3"
12"	5'-0" ± 2"
16"	4'-6" ± 2"
24"	4'-0" ± 1"
30" TO 42"	3'-6" MIN. (SEE PLAN)
48" & LARGER	3' MIN. (SEE PLAN)

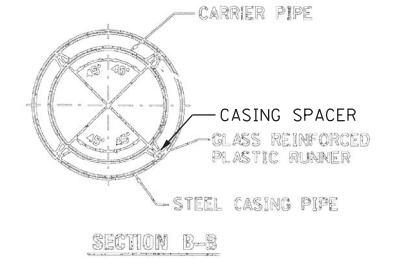
PHASE 1: BACKFILL CA-16 TO GRADE FOLLOWING THE INSTALLATION OF PROPOSED WATER MAIN.
 PHASE 2: P.C.C. BASE COURSE TO GRADE FOLLOWING THE APPROVAL OF PROPOSED MAIN AND SUCCESSFUL COMPLETION OF SERVICE TRANSFERS AND CONNECTIONS.
 PHASE 3: FINAL PAVEMENT RESTORATION. LIMITS AS INDICATED ON PLANS.



- GENERAL NOTES:**
- PROVIDE PIPE BEDDING TO A DEPTH OF 1/8 OF PIPE DIAMETER OR 6" MINIMUM OF COMPACTED GRANULAR MATERIAL, GRAVEL, OR CRUSHED STONE.
 - USE CA-16 BEDDING MATERIAL FOR PIPE SIZES UP TO 16-INCH DIAMETER.
 - USE CA-11 BEDDING MATERIAL FOR PIPE SIZES LARGER THAN 16-INCH DIAMETER.
 - ALL EXCAVATIONS MUST BE PROPERLY SHORED, SHEETED AND BRACED TO PROVIDE SAFE WORKING CONDITIONS. ALL IN COMPLIANCE WITH THE U.S. DEPARTMENT OF LABOR SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION STIPULATED UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT. (O.S.H.A.).
 - PLATE ALL UNATTENDED EXCAVATIONS IN PAVEMENT AREAS AND SECURE PLATES TO PAVEMENT AND PROVIDE BARRIERS IN PARKWAY AREAS.
 - DOWEL BARS SHALL BE #5 EPOXY COATED BARS, 18" LONG DRILLED, WITH 9" EMBEDMENT AND GROUTED AT 30" CENTERS. DOWEL BARS MAY BE OMITTED ON CDOT STREETS WHERE CLSM USED AS TRENCH BACKFILL.
 - FOLLOWING THE APPROVAL OF PROPOSED MAIN AND SUCCESSFUL COMPLETION OF SERVICE TRANSFERS AND CONNECTIONS, PLACE CONCRETE BASE COURSE FLUSH TO GRADE. THE ADDITIONAL THICKNESS IS TO BE REMOVED DURING PAVEMENT RESTORATION WORK. FINAL CONCRETE BASE THICKNESS MUST BE PER C.D.O.T. AND I.D.O.T. REQUIREMENTS. WHEN THE THICKNESS OF THE EXISTING ROADWAY BASE MATERIAL IS LESS THAN THE MINIMUM THICKNESS INDICATED IN THE PLANS, THE BOTTOM OF BASE MATERIAL WILL EXTEND BELOW THE BOTTOM OF THE BASE MATERIAL OF THE EXISTING PAVEMENT.
 - FINAL PAVEMENT RESTORATION SHALL BE COMPLETED AS INDICATED IN THE RESTORATION NOTE ON THE PLANS AND IN COMPLIANCE WITH C.D.O.T. AND STANDARDS. THE C.D.O.T. STREET PAVEMENT RESTORATION DETAIL HAS BEEN INCLUDED IN THESE DETAILS FOR REFERENCE.
 - EXCAVATED MATERIAL MAY BE USED IN PLACE OF (CA-16) IN PARKWAY TRENCHES. THE MATERIAL MUST BE PULVERIZED AND APPROVED BY THE COMMISSIONER.



- NOTES:**
- ACCESS PITS SHALL BE LOCATED A MINIMUM OF 10 FEET FROM THE ROADWAY EDGE OF PAVEMENT.
 - SHORING SHALL BE INSTALLED IMMEDIATELY DURING THE EXCAVATION OF THE ACCESS PITS AND SHALL CONFORM TO OSHA STANDARDS FOR TRENCH PROTECTION.
 - SHORING SHALL BE DESIGNED, ERECTED, SUPPORTED, AND BRACED, AND MAINTAINED SUCH THAT IT WILL SAFELY SUPPORT ALL VERTICAL AND HORIZONTAL LOADS DURING CONSTRUCTION OPERATIONS.
 - OPEN ACCESS PITS SHALL BE CLEARLY MARKED AND REMAIN PROTECTED WITH TEMPORARY CONCRETE BARRIERS AT ALL TIMES.
 - BACKFILL PITS WITH CA-16 AND COMPACT.
 - ALL CASING PIPES MUST BE SMOOTH WELDED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A139, GRADE B. THE EXTERIOR OF THE CASING PIPE MUST HAVE COAL-TAR ENAMEL IN ACCORDANCE WITH AWWA C203 AND A THICKNESS AS SPECIFIED IN THE PLANS.
 - SPACERS FOR THE CARRIER PIPE MUST BE EITHER THE TWO-PIECE METAL BAND TYPE WITH 2-INCH WIDE NON-METALLIC RUNNERS OR UNITS MANUFACTURED ENTIRELY OUT OF HIGH-DENSITY POLYETHYLENE. ON TWO-PIECE METAL BAND TYPE SPACERS, BANDS AND FASTENERS MUST BE RATED FOR HEAVY DUTY SERVICE, MANUFACTURED BY (PSI) PIPELINE SEAL AND INSULATOR, INCORPORATED; CASCADE WATERWORKS MANUFACTURING COMPANY, OR RACI SPACERS NORTH AMERICA.
 - PRIOR TO INSERTION OF CASING, EACH LENGTH OF PIPE MUST BE SUPPORTED ON CASING SPACERS IN SUCH A MANNER THAT AT NO TIME WILL THE WEIGHT OF THE PIPE BEAR ON THE BELL OR ANY PART OF THE PIPE TOUCH THE CASING.
 - ALL PIPES MUST BE JOINTED PRIOR TO BEING PUSHED OR PULLED THROUGH THE CASING PIPE. AFTER PLACEMENT OF THE CARRIER PIPE THROUGH THE CASING, THE ENDS OF THE CASING ARE TO BE SEALED WITH BRICK AND MORTAR, OR RUBBER END SEAL OR OTHER APPROVED METHOD AND MUST BE COMPLETELY LEAK-TIGHT.



REV:05.09

WATER MAIN TRENCH PHASE DETAILS

D-8

FILE NAME = 8FILES

COLLINS ENGINEERS

USER NAME = r9011
 PLOT SCALE = 50.0000' / 1".
 PLOT DATE = 4/4/2016

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION DETAILS

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60X56				
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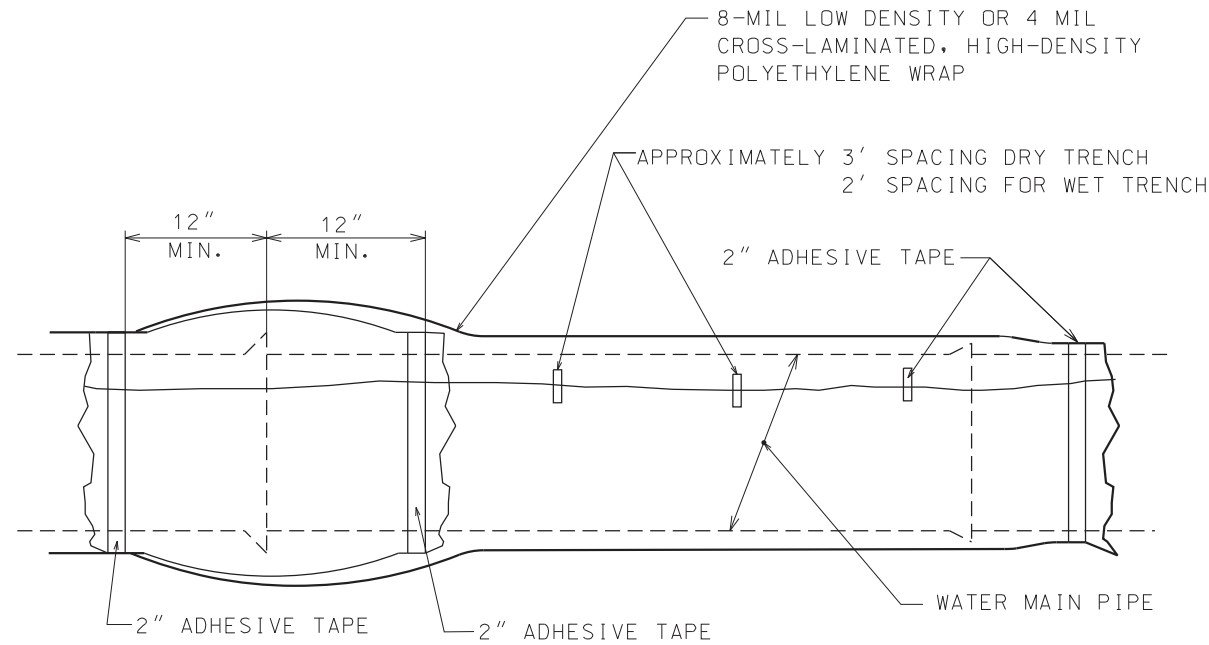


CHART "A" POLYWRAP FLAT TUBE WIDTHS

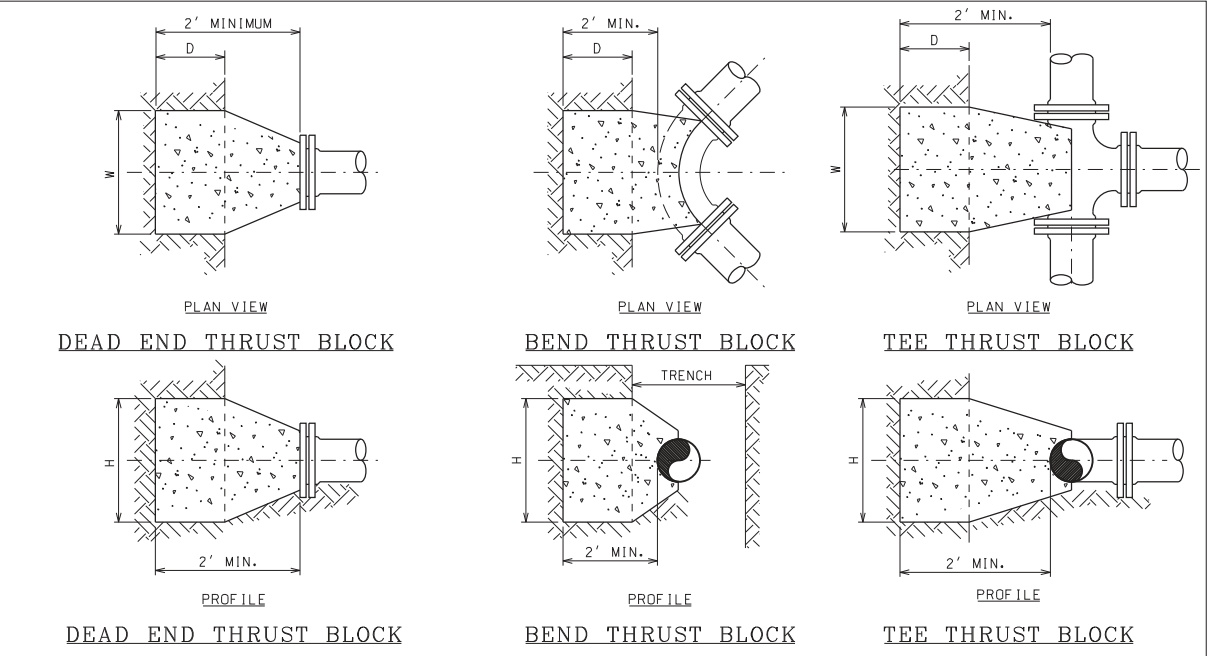
PIPE DIAMETER (IN.)	D.I.P. WITH PUSH-ON JOINTS (IN.)	D.I.P. WITH MECHANICAL JOINTS (IN.)
4	14	16
6	17	20
8	21	24
12	29	30
16	37	37
24	53	53

- NOTES:
- USE ONE LENGTH OF POLYETHYLENE TUBE WRAP FOR EACH LENGTH OF PIPE, OVERLAPPED AT PIPE JOINTS AND FOLD EXCESS OVER TOP OF TUBE FOR SLACK REDUCTION.
 - USE CHART "A" TO SELECT SIZE OF WRAP.

WATER MAIN
POLYETHYLENE WRAP DETAIL

REV:06.10

D-10



HORIZONTAL THRUST BLOCK DETAILS

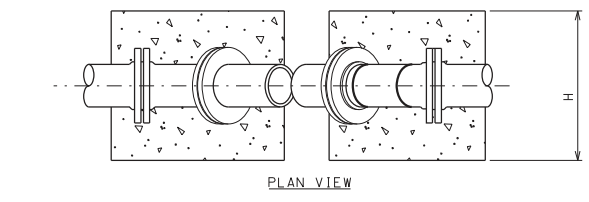
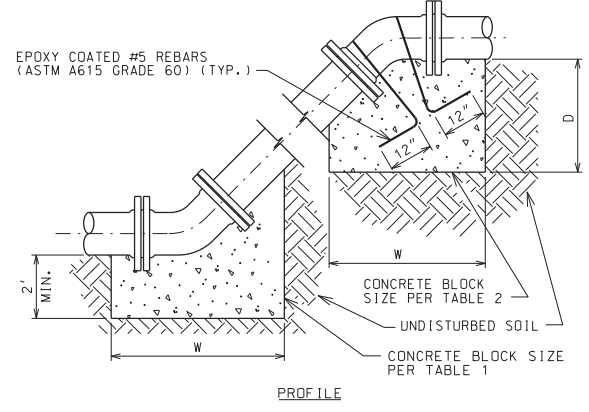


TABLE 1

PIPE SIZE INCH DIA.	DEAD END & TEE				HORIZONTAL 1/4 BEND				HORIZONTAL 1/8 BEND			
	D	H	W	CY	D	H	W	CY	D	H	W	CY
16	1	5.5	4.5	2	1	6.5	5	2.5	1	4.5	4	1.5
12	1	3.5	3.5	1	1	4	4	1.5	1	3	3	.75
8	.5	2.5	2.5	.5	.5	3	3	.5	.5	2	2	.3

PIPE SIZE INCH DIA.	HORIZONTAL 1/16 BEND				HORIZONTAL 1/32 BEND			
	D	H	W	CY	D	H	W	CY
16	1	3.5	3.5	1	1	2.5	2.5	.6
12	1	2.5	2.5	.5	1	2	2	.4
8	.5	1.5	1.5	.25	.5	1.5	1.5	.25



VERTICAL THRUST BLOCK DETAILS

TABLE 2

PIPE SIZE INCH DIA.	VERTICAL 1/8 BEND				VERTICAL 1/8 BEND BOTTOM			
	D	H	W	CY	D	H	W	CY
16	7	6	6	11	2	4.5	4	2.25
12	5	6	5	7	2	3	3	1
8	4.5	4	4	3.5	2	2	2	.5

D IS THE DIMENSION INTO UNDISTURBED GROUND IN FEET
H IS HEIGHT OF THRUST BLOCK IN FEET
W IS WIDTH OF THRUST BLOCK IN FEET
ALL DIMENSIONS ARE MINIMUM.
THRUST BLOCKS IN LOOSE FILL OR SAND AREAS ARE NOT INCLUDED IN THESE TABLES AND WILL REQUIRE ADDITIONAL ANALYSIS.

- NOTES:
- FULL CONCRETE THRUST BLOCKS AS SHOWN ARE REQUIRED WHEN THRUST RESTRAINT IS NOT PROVIDED BY OTHER MEANS SUCH AS RESTRAINED JOINT PIPE.
 - WHEN THRUST RESTRAINT GLANDS ARE INSTALLED FOR THE CONNECTIONS, CONCRETE THRUST BLOCKS SHALL BE PROVIDED UP TO THE THE DOTTED LINE AS SHOWN.
 - ALL BOLTS, NUTS, THRUST RESTRAINT GLANDS AND FITTINGS SHALL BE WRAPPED WITH POLYETHYLENE TUBING TO PREVENT CORROSION AND CONCRETE ADHESION.
 - CONCRETE FOR THRUST BLOCKS MUST NOT CONTAIN FLY ASH.

THRUST RESTRAINT
CONCRETE THRUST BLOCK DETAILS

REV:04.07

D-11

FILE NAME = 8FILES

COLLINS ENGINEERS

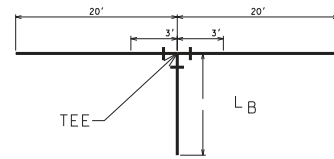
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PLOT SCALE = 50.0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 4/4/2016	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION
DETAILS

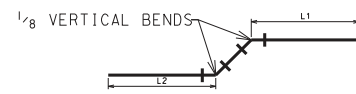
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	142
CONTRACT NO. 60X56				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



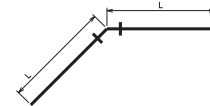
TEE SIZE	L _B
8" x 8" : (8", 12", 16" OR 24") x 12"	0
16" x 16"	42'
36" x 24"	277'

HORIZONTAL TEES - LENGTH OF RESTRAINED JOINTS



PIPE SIZE	L1	L2
8"	26'	26'
12"	37'	11'
16"	67'	20'
24"	67'	20'

1/8 VERTICAL BENDS - LENGTH OF RESTRAINED JOINTS



PIPE SIZE	DISTANCE OF RESTRAINED JOINTS REQUIRED EITHER SIDE OF BENDS			
	L			
	BEND SIZES			
	1/32	1/16	1/8	1/4
8"	3'	6'	12'	29'
12"	4'	8'	17'	41'
16"	7'	15'	30'	73'
24"	7'	15'	30'	73'

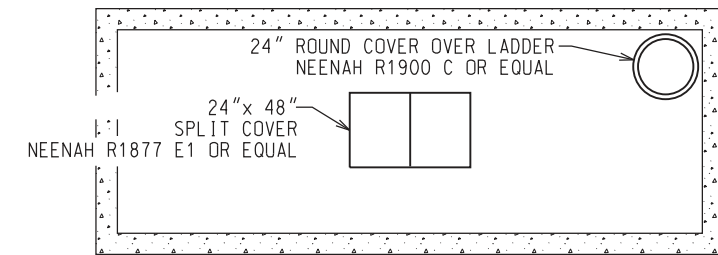
HORIZONTAL BENDS - LENGTH OF RESTRAINED JOINTS

- NOTE:
1. MINIMUM LENGTHS OF PIPE REQUIRED TO RESTRAIN FITTINGS SHOWN.
 2. LENGTHS BASED ON POLY-WRAPPED PIPE.

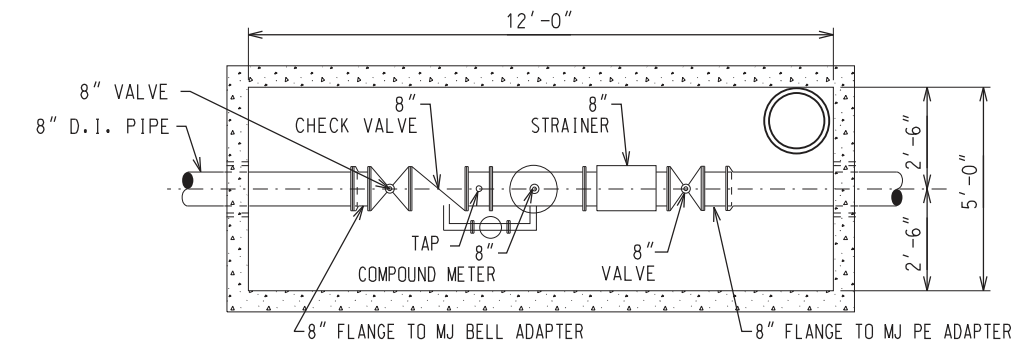
THRUST RESTRAINT RESTRAINED JOINT PIPE DETAILS

REV:06.10

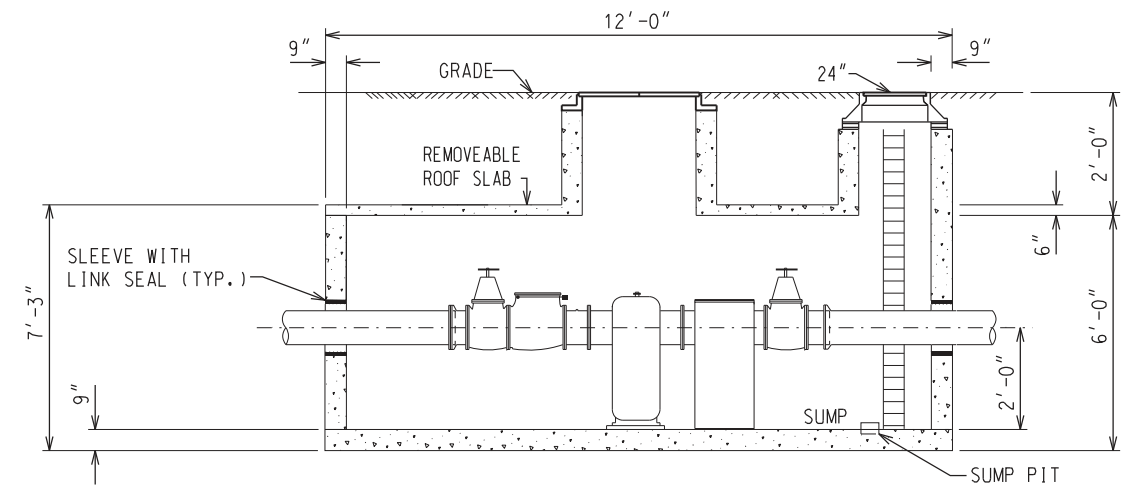
D-12



PLAN VIEW ABOVE SURFACE



PLAN VIEW IN GROUND



SECTION VIEW IN GROUND

NOTES:

1. ALL CONCRETE STRUCTURES SHALL BE WATER TIGHT, THE CONTRACTOR WILL BE REQUIRED TO TAKE SUCH MEANS NECESSARY TO CORRECT ANY AND ALL LEAKAGE THRU FLOORS OR WALLS OF STRUCTURE, WITHOUT ADDITIONAL COMPENSATION.
2. WALLS MAY BE CONSTRUCTED OF 8" CONCRETE BLOCK ON A CONCRETE FLOOR SLABS MAY BE PRECAST CONCRETE-OR THEY BE PRECAST CONCRETE REINFORCED AS REQUIRED.
3. METER AND PIPING TO BE SET BEFORE INSTALLING ROOF SLAB.
4. ALL METER VAULTS SHALL BE FURNISHED WITH GALVANIZED OR ALUMINUM LADDERS. ALL OPENINGS IN METER VAULTS SHALL BE SEALED WITH 'NO SHRINK' GROUT.

8" COMPOUND METER VAULT WITH CHECK VALVE

FILE NAME = 8FILES

COLLINS ENGINEERS

USER NAME = rgo11
 PLOT SCALE = 50.0000' / in.
 PLOT DATE = 4/4/2016

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION DETAILS

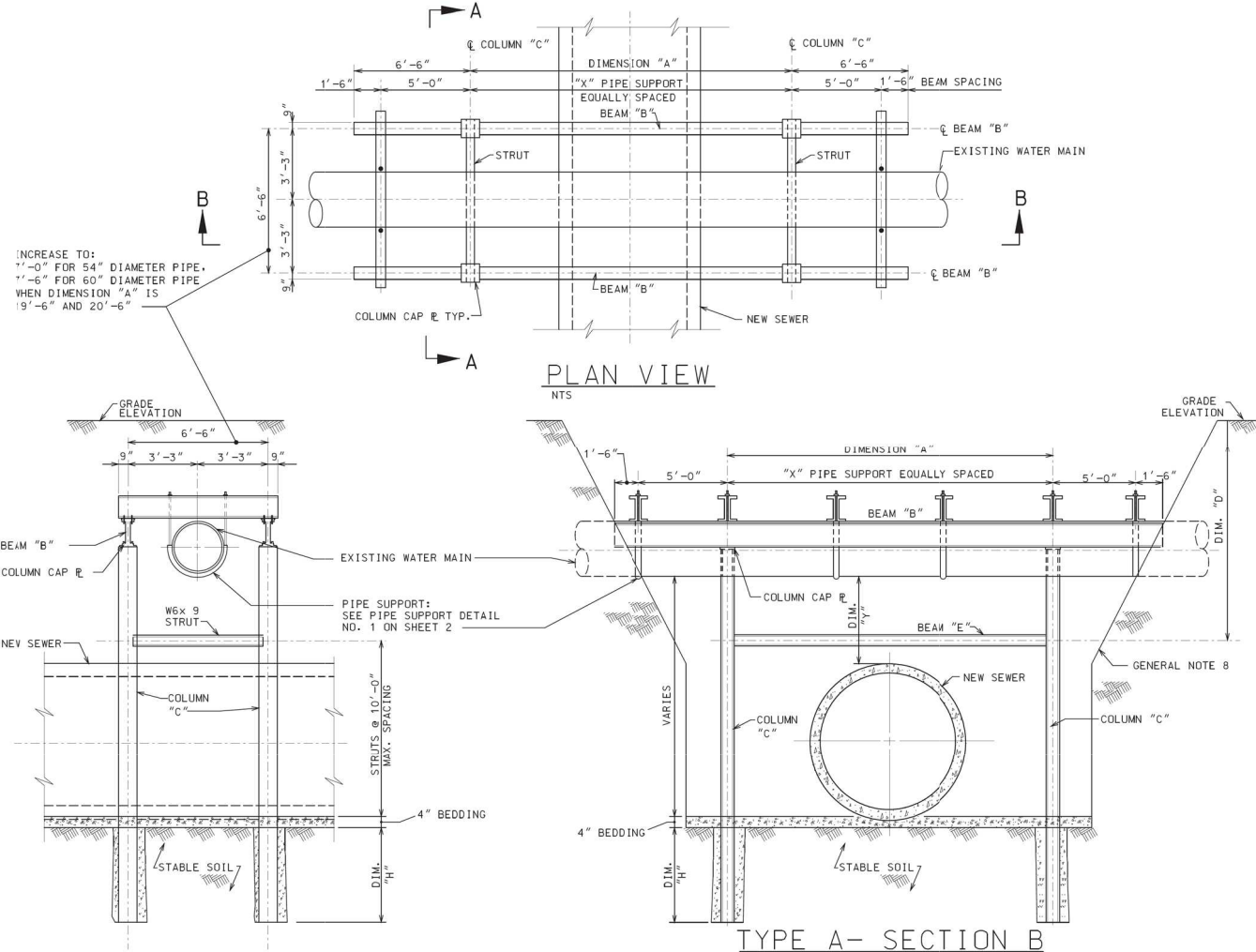
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	143
CONTRACT NO. 60X56				

FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT

TYPE I SUPPORT- TYPE A & B

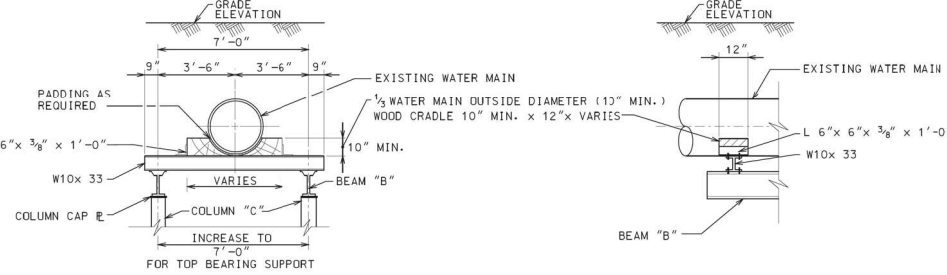
TYPE I SUPPORT STRUCTURE REMAINS IN PLACE.
(USE WHEN SEWER WILL BE INSTALLED AT A FUTURE DATE OR JOB SITE CONDITIONS WILL NOT ACCOMMODATE TYPE II SUPPORT INSTALLATION)



PLAN VIEW
NTS

TYPE A- SECTION A
NTS

- TYPE I SUPPORT NOTES- TYPE A & B:**
- SEE TYPE I SUPPORT TABLE ON SHEET 2 FOR BEAM MEMBER SIZES.
 - TYPE "A" SUPPORTS EXISTING WATER MAIN UNDERHUNG FROM CROSS BEAMS. TYPE "B" SUPPORTS EXISTING WATER MAIN BEARING ON TOP OF CROSS BEAMS. WHEN DIMENSION "Y" IS LESS THAN 2'-6" TYPE "A" SUPPORT MUST BE USED. MINIMUM DIMENSION "Y" FOLLOW IEPA REGULATIONS.
 - BACKFILL WITH CRUSHED STONE FILL MATERIAL OR CLSM AS REQUIRED.
 - AS DIRECTED BY THE COMMISSIONER, TYPE "A" SUPPORTS ABOVE THE COLUMN CAP PLATE MAY BE REMOVED. ONLY CLSM BACKFILL WILL BE ACCEPTED FOR THIS CONDITION.



TYPE A- SECTION B
NTS

TYPE B- SECTION B
NTS

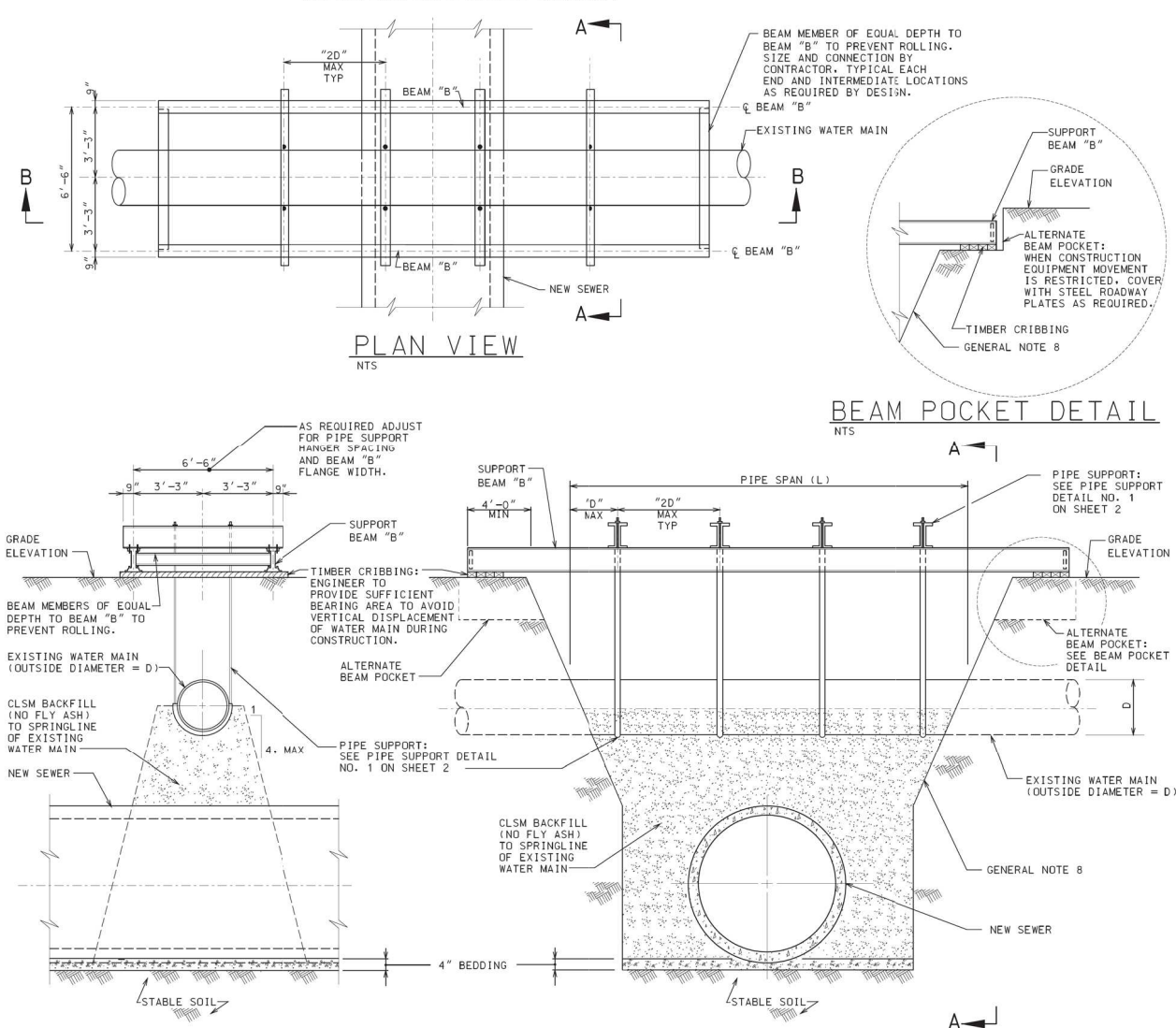
SUPPORT OF EXISTING WATER MAIN CAST IRON, DUCTILE IRON OR CONCRETE CYLINDER PIPE

- GENERAL NOTES FOR TYPE I & II SUPPORTS:**
- TYPE II SUPPORT IS CDWM PREFERRED SUPPORT METHOD. USE TYPE I SUPPORT WHEN SEWER WILL BE INSTALLED AT A FUTURE DATE REQUIRING A SECOND EXCAVATION. TYPE I SUPPORT MUST ALSO BE INSTALLED WHEREVER JOB SITE CONDITIONS WILL NOT ACCOMMODATE TYPE II SUPPORT TO BE INSTALLED (SUCH AS LOCATIONS WHERE THE WIDTH OF EXCAVATION WOULD CREATE EXCESSIVE ROADWAY LINE CLOSURES). IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SELECT THE APPROPRIATE TYPE OF PIPE SUPPORT METHOD FOR CONDITIONS AT THE JOB SITE, OR AS DIRECTED BY THE COMMISSIONER.
 - THESE DETAILS ARE PROVIDED FOR REFERENCE ONLY AND DO NOT REPRESENT A COMPLETE DESIGN. THE CONTRACTOR MUST COMPLETE THE DESIGN FOR EACH LOCATION WHERE WATER MAIN SUPPORT IS TO BE IMPLEMENTED. THE COMPLETE DESIGN MUST INCLUDE (BUT NOT LIMITED TO) STRUCTURAL STEEL CONNECTION DETAILS, COLUMN BRACE SIZE AND SPACING, CONSIDERATION OF BEAM BEARING LOADS ON EXISTING ROADWAY SURFACES OR GRADE, EFFECTS OF BUOYANCY ON THE NEW SEWER DUE TO FLOWABLE CLSM, FOUNDATION DEPTH AND DIAMETER BASED ON BEST AVAILABLE SOIL DATA, AND DESIGN FOR SUPPORT OF EXCAVATIONS.
 - THESE DETAILS WERE DEVELOPED FOR SUPPORT OF WATER MAINS UP TO 60 INCHES IN DIAMETER, UP TO 6 FEET OF COVER AND AASHTO HS 20-44 WHEEL LOADS.
 - DUCTILE IRON PIPE MUST BE WRAPPED IN POLYETHYLENE PRIOR TO PLACEMENT OF BACKFILL.
 - THE CONTRACTOR MUST SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR THE SUPPORT METHOD USED STAMPED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF ILLINOIS. THE DESIGN MUST TAKE INTO ACCOUNT THE ACTUAL FIELD VERIFIED DIMENSIONS, SPANS, AND TRIBUTARY LOADING WHICH MAY EXCEED VALUES SHOWN. CDWM MAINTAINS A RECORD OF BURIED TYPE I SUPPORT STRUCTURES AND THEIR LOCATIONS. THE CONTRACTOR MUST FURNISH AS-BUILT DRAWINGS FOR THIS RECORD.

REV:04.13

TYPE II SUPPORT

TYPE II SUPPORT STRUCTURE WILL BE REMOVED.
(USE WHEN SEWER WILL BE INSTALLED IMMEDIATELY)



PLAN VIEW
NTS

BEAM POCKET DETAIL
NTS

SECTION A
NTS

SECTION B
NTS

- TYPE II SUPPORT NOTES:**
- THIS DETAIL APPLIES TO THE TEMPORARY SUPPORT OF EXISTING WATER MAINS UP TO 60 INCH INSIDE DIAMETER. SUPPORT BEAMS, CROSS BEAMS, PIPE SUPPORT, AND TIMBER CRIBBING MUST BE REMOVED AFTER CLSM BACKFILL HAS ATTAINED THE COMPRESSIVE STRENGTH THAT SATISFIES THE ENGINEER.
 - CONTRACTOR TO MONITOR CCP EXPOSED GROUTED JOINTS FOR SIGNS OF CRACKING WHILE THE PIPE IS SUPPORTED. IF SMALL CRACKS APPEAR, FILL WITH A FAST SETTING, PORTLAND CEMENT WATER STOP (SIKASET PLUG OR APPROVED EQUAL).

- THE DESIGN OF THE MAIN SUPPORT BEAM "B" MUST LIMIT TOTAL DEFLECTION OF THE PIPE TO L/480 OF THE PIPE SPAN (L).
- MATERIAL PROPERTIES MUST MEET THE FOLLOWING CRITERIA:
W-SHAPES: ASTM A992 GRADE 50
CHANNELS: ASTM A36
PLATES & BARS: ASTM A36
THREADED RODS: ASTM A36
HSS SHAPES: ASTM A500 GRADE B
HIGH STRENGTH BOLTS: ASTM A325 N-BOLTS
CLSM: 100T STANDARD SPECIFICATIONS SECTION 1019 MIX 2
- THE CONTRACTOR MUST SLOPE TRENCH WALLS OR SHORE EXCAVATIONS FOR CONSTRUCTION SAFETY AND IN ACCORDANCE WITH CURRENT OSHA REQUIREMENTS. THE OVERALL WIDTH OF EXCAVATION, TRAFFIC CONTROL, AND PROTECTION MUST BE SUBMITTED TO CDWM FOR REVIEW PRIOR TO THE START OF CONSTRUCTION.
- OPEN EXCAVATIONS AND IN PLACE FLOWABLE CLSM BACKFILL MUST BE CORDONED OFF OR COVERED TO PROVIDE PROTECTION AGAINST ACCIDENTAL FALLING.
- REFER TO STANDARD SPECIFICATIONS FOR WATER MAIN CONSTRUCTION FOR ADDITIONAL INFORMATION.

A-1
SHT. 1 OF 2

FILE NAME = 8FILES

COLLINS ENGINEERS

USER NAME = r9e11
PLOT SCALE = 50.0000' / in.
PLOT DATE = 4/4/2016

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

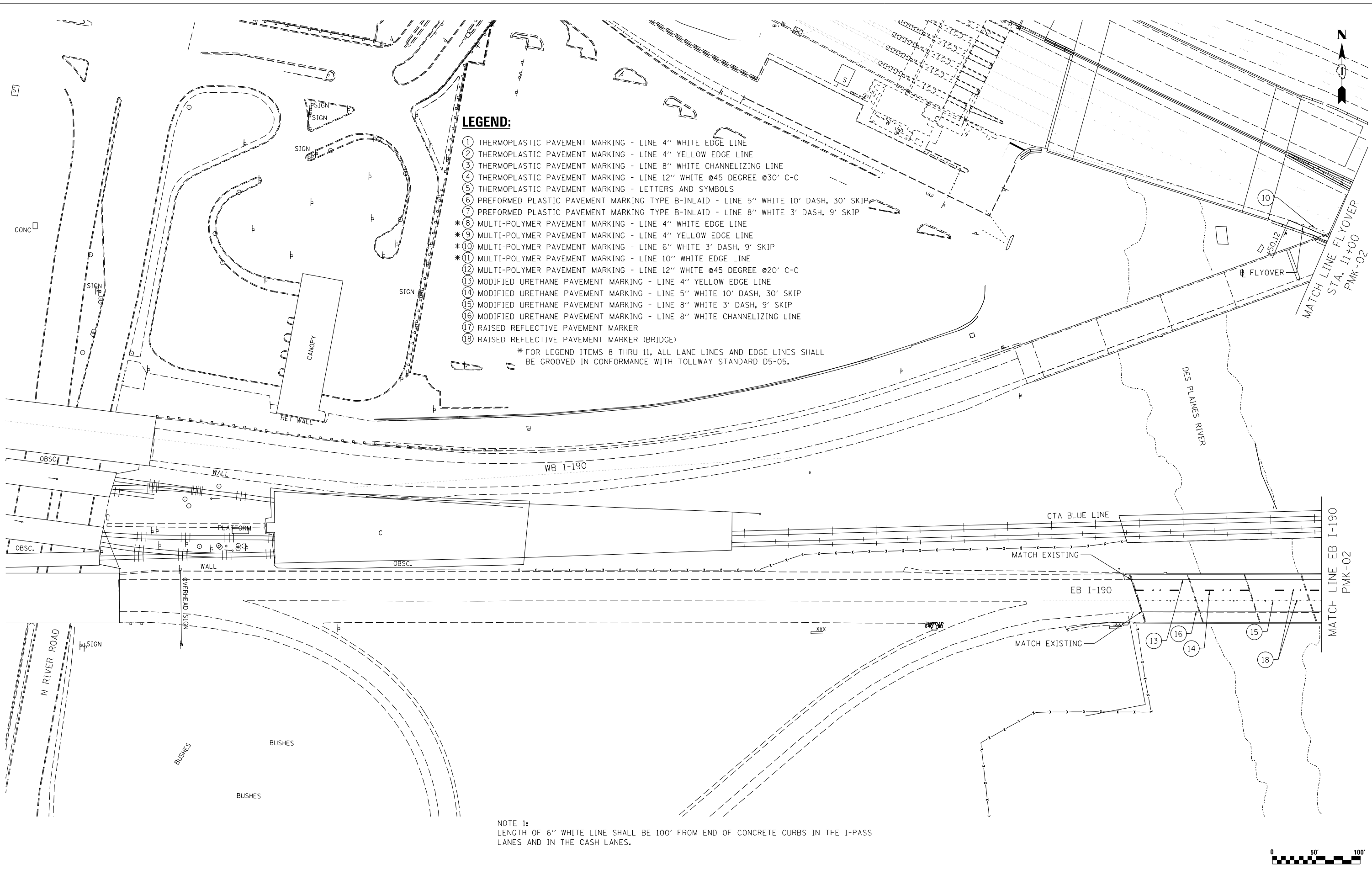
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WATER MAIN RELOCATION
DETAILS**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

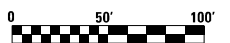
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	144
CONTRACT NO. 60X56				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FILE NAME: I:\Projects\1517R-1\1517R-1-190_CumberlandFlyover\Drawings\1517R-1-190_PavementMarking\1517R-1-190_PavementMarking-01.dwg



- LEGEND:**
- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE EDGE LINE
 - ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW EDGE LINE
 - ③ THERMOPLASTIC PAVEMENT MARKING - LINE 8" WHITE CHANNELIZING LINE
 - ④ THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE @45 DEGREE @30' C-C
 - ⑤ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
 - ⑥ PREFORMED PLASTIC PAVEMENT MARKING TYPE B-INLAID - LINE 5" WHITE 10' DASH, 30' SKIP
 - ⑦ PREFORMED PLASTIC PAVEMENT MARKING TYPE B-INLAID - LINE 8" WHITE 3' DASH, 9' SKIP
 - *⑧ MULTI-POLYMER PAVEMENT MARKING - LINE 4" WHITE EDGE LINE
 - *⑨ MULTI-POLYMER PAVEMENT MARKING - LINE 4" YELLOW EDGE LINE
 - *⑩ MULTI-POLYMER PAVEMENT MARKING - LINE 6" WHITE 3' DASH, 9' SKIP
 - *⑪ MULTI-POLYMER PAVEMENT MARKING - LINE 10" WHITE EDGE LINE
 - ⑫ MULTI-POLYMER PAVEMENT MARKING - LINE 12" WHITE @45 DEGREE @20' C-C
 - ⑬ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW EDGE LINE
 - ⑭ MODIFIED URETHANE PAVEMENT MARKING - LINE 5" WHITE 10' DASH, 30' SKIP
 - ⑮ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE 3' DASH, 9' SKIP
 - ⑯ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE CHANNELIZING LINE
 - ⑰ RAISED REFLECTIVE PAVEMENT MARKER
 - ⑱ RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)
- * FOR LEGEND ITEMS 8 THRU 11, ALL LANE LINES AND EDGE LINES SHALL BE GROOVED IN CONFORMANCE WITH TOLLWAY STANDARD D5-05.

NOTE 1:
LENGTH OF 6" WHITE LINE SHALL BE 100' FROM END OF CONCRETE CURBS IN THE I-PASS LANES AND IN THE CASH LANES.



USER NAME = mikosir	DESIGNED - MA	REVISED -
	DRAWN - MA	REVISED -
PLOT SCALE = 1/80' / 1in.	CHECKED - RH	REVISED -
PLOT DATE = 6/2/2016	DATE - 05/06/2016	REVISED -

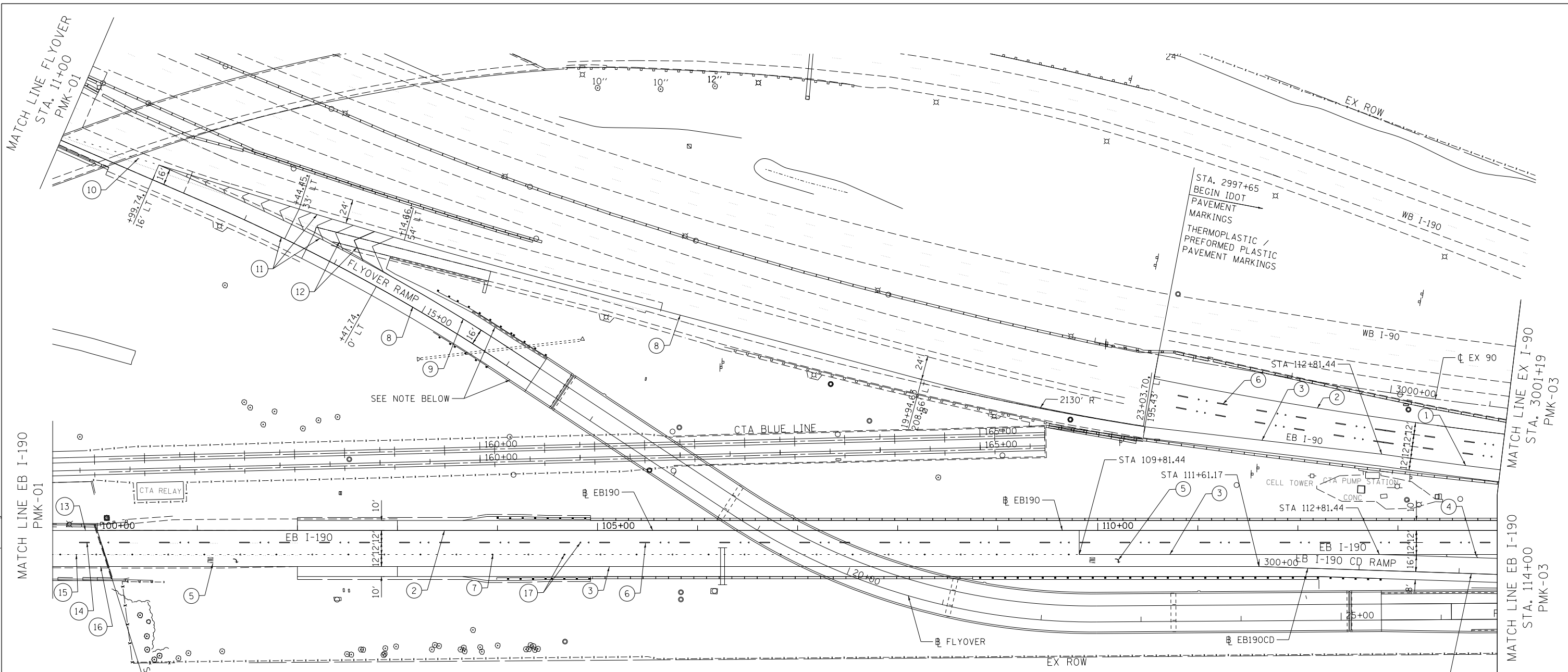
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
CUMBERLAND FLYOVER PROJECT**

SCALE: 1" = 100' SHEET 1 OF 5 SHEETS STA. TO STA.

		PMK-01	
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
190	1517R-1(13)	COOK	580
		SHEET NO. 145	
		CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT			

FILE NAME: \\hntb\5656\hntb\5656\hntb\5656\Documents\Chicago\Project\1-190_Cumberland\Drawings\CADD_Sheets\1517R-113\1517R-113-PMK-02.dgn



MODIFIED URETHANE PAVEMENT MARKINGS
THERMOPLASTIC / PREFORMED PLASTIC PAVEMENT MARKINGS

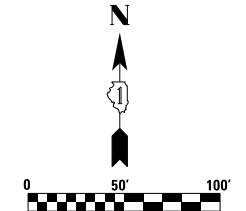
NOTE:

INSTALL DELINEATORS AS REQUIRED IN ISTHA'S STANDARD D4-03 ON THE BARRIER WALLS AND GUARDRAILS AND ALONG THE ROADWAY BETWEEN STATION 13+68.43 AND 35+00 ON THE FLYOVER.

LEGEND:

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE EDGE LINE
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW EDGE LINE
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 8" WHITE CHANNELIZING LINE
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE @45 DEGREE @30' C-C
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑥ PREFORMED PLASTIC PAVEMENT MARKING TYPE B-INLAID - LINE 5" WHITE 10' DASH, 30' SKIP
- ⑦ PREFORMED PLASTIC PAVEMENT MARKING TYPE B-INLAID - LINE 8" WHITE 3' DASH, 9' SKIP
- * ⑧ MULTI-POLYMER PAVEMENT MARKING - LINE 4" WHITE EDGE LINE
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- * ⑩ MULTI-POLYMER PAVEMENT MARKING - LINE 6" WHITE 3' DASH, 9' SKIP
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- ⑫ MULTI-POLYMER PAVEMENT MARKING - LINE 12" WHITE @45 DEGREE @20' C-C
- ⑬ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW EDGE LINE
- ⑭ MODIFIED URETHANE PAVEMENT MARKING - LINE 5" WHITE 10' DASH, 30' SKIP
- ⑮ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE 3' DASH, 9' SKIP
- ⑯ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE CHANNELIZING LINE
- ⑰ RAISED REFLECTIVE PAVEMENT MARKER
- ⑱ RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)

* FOR LEGEND ITEMS 8 THRU 11, ALL LANE LINES AND EDGE LINES SHALL BE GROOVED IN CONFORMANCE WITH TOLLWAY STANDARD D5-05.



USER NAME = mkosir	DESIGNED - MA	REVISED -
	DRAWN - MA	REVISED -
PLOT SCALE = 1.00' / in.	CHECKED - RH	REVISED -
PLOT DATE = 5/27/2016	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
CUMBERLAND FLYOVER PROJECT**

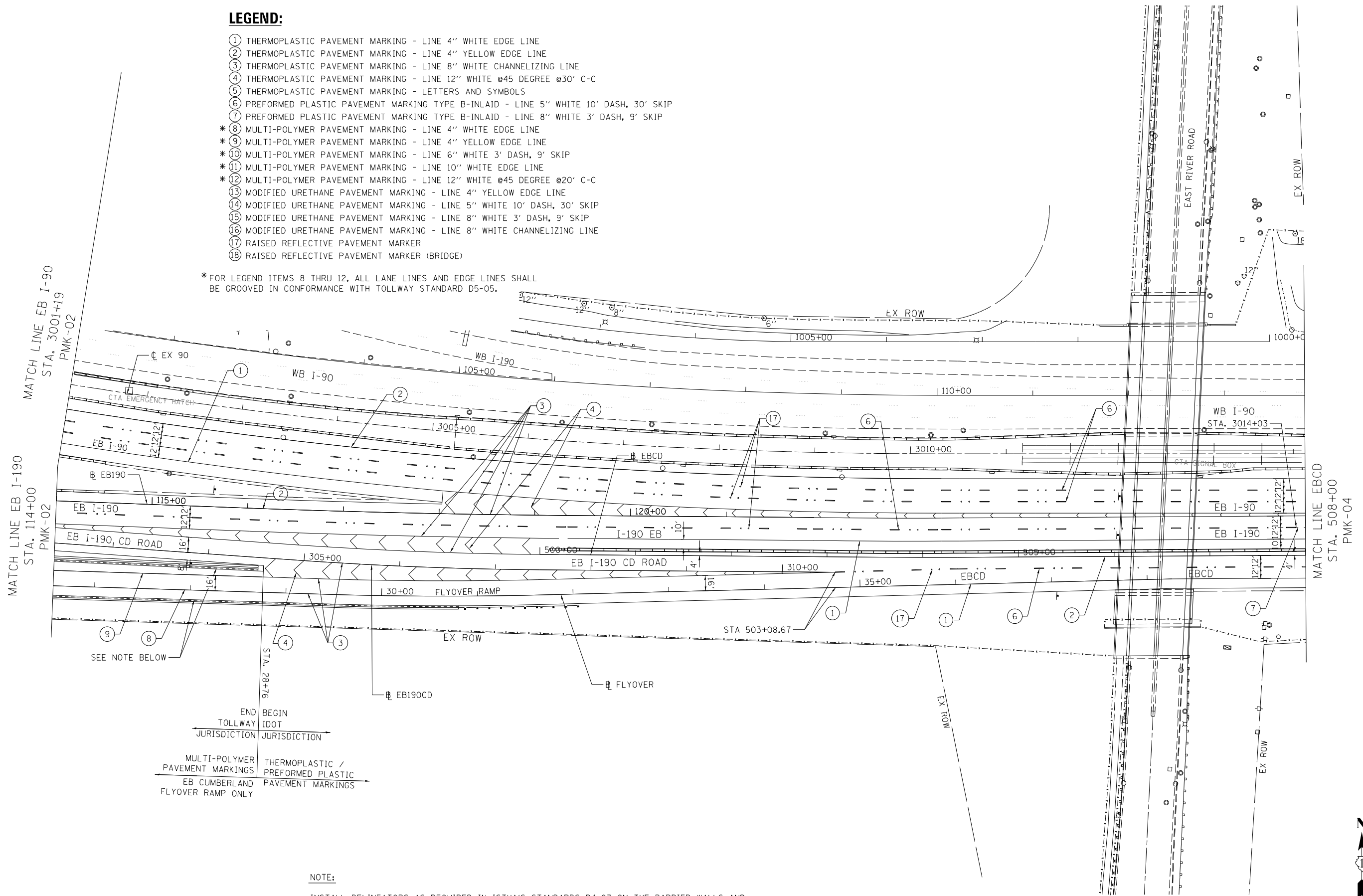
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		PMK-02	
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
190	1517R-113	COOK	580
		SHEET NO. 146	
CONTRACT NO. 60X56			
ILLINOIS FED. AID PROJECT			

LEGEND:

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE EDGE LINE
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW EDGE LINE
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 8" WHITE CHANNELIZING LINE
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- ⑥ PREFORMED PLASTIC PAVEMENT MARKING TYPE B-INLAID - LINE 5" WHITE 10' DASH, 30' SKIP
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- * ⑫ MULTI-POLYMER PAVEMENT MARKING - LINE 12" WHITE @45 DEGREE @20' C-C
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- ⑯ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE CHANNELIZING LINE
- ⑰ RAISED REFLECTIVE PAVEMENT MARKER
- ⑱ RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)

* FOR LEGEND ITEMS 8 THRU 12, ALL LANE LINES AND EDGE LINES SHALL BE GROOVED IN CONFORMANCE WITH TOLLWAY STANDARD D5-05.



END TOLLWAY JURISDICTION	BEGIN IDOT JURISDICTION
MULTI-POLYMER PAVEMENT MARKINGS	THERMOPLASTIC / PREFORMED PLASTIC PAVEMENT MARKINGS
EB CUMBERLAND FLYOVER RAMP ONLY	

NOTE:
INSTALL DELINEATORS AS REQUIRED IN ISTHA'S STANDARDS D4-03 ON THE BARRIER WALLS AND GUARDRAILS AND ALONG THE ROADWAY BETWEEN STATION 10+00 AND 35+00 ON THE FLYOVER.

FILE NAME: \\hntb\p0556\hntb\c03\p0556\Documents\Chicago\Projects\190\1-190_Cumberland\Drawings\CADD_Sheets\01\0556\sh1\pmk-03.dgn



USER NAME = mksosir	DESIGNED - MA	REVISED -
PLOT SCALE = 1:8000' / 1/8"	DRAWN - MA	REVISED -
PLOT DATE = 4/27/2016	CHECKED - RH	REVISED -
	DATE - 05/06/2016	REVISED [1] - 03/06/2015 CR 01

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

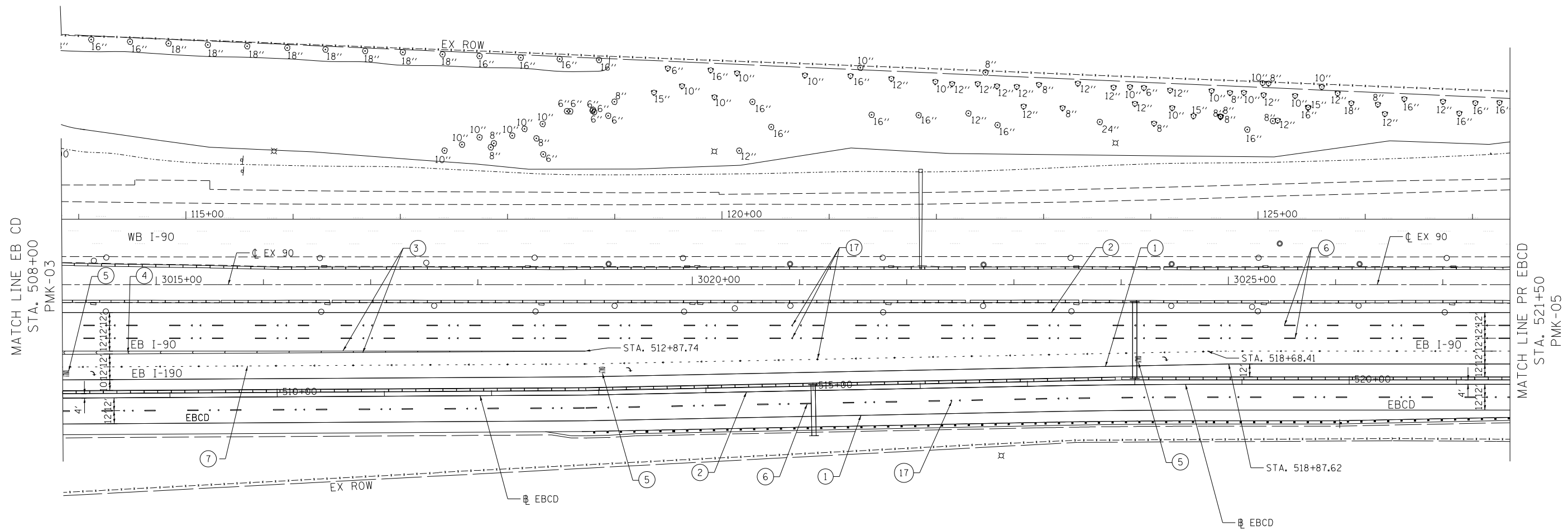
**PAVEMENT MARKING PLAN
CUMBERLAND FLYOVER PROJECT**

SCALE: 1" = 50' SHEET 3 OF 5 SHEETS STA. 114+00.00 TO STA. 508+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	147
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

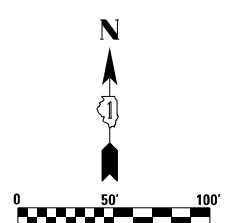
PMK-03

FILE NAME: C:\Users\mkosir\Documents\Chicago\Projects\1517R\Cumberland\Drawings\CADD\Contract\60X56\sh1\pmk-04.dgn



LEGEND:

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE EDGE LINE
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW EDGE LINE
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 8" WHITE CHANNELIZING LINE
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE @45 DEGREE @30' C-C
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑥ PREFORMED PLASTIC PAVEMENT MARKING TYPE B-INLAID - LINE 5" WHITE 10' DASH, 30' SKIP
- ⑦ PREFORMED PLASTIC PAVEMENT MARKING TYPE B-INLAID - LINE 8" WHITE 3' DASH, 9' SKIP
- ⑧ MULTI-POLYMER PAVEMENT MARKING - LINE 4" WHITE EDGE LINE
- ⑨ MULTI-POLYMER PAVEMENT MARKING - LINE 4" YELLOW EDGE LINE
- ⑩ MULTI-POLYMER PAVEMENT MARKING - LINE 6" WHITE 3' DASH, 9' SKIP
- ⑪ MULTI-POLYMER PAVEMENT MARKING - LINE 10" WHITE EDGE LINE
- ⑫ MULTI-POLYMER PAVEMENT MARKING - LINE 12" WHITE @45 DEGREE @20' C-C
- ⑬ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW EDGE LINE
- ⑭ MODIFIED URETHANE PAVEMENT MARKING - LINE 5" WHITE 10' DASH, 30' SKIP
- ⑮ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE 3' DASH, 9' SKIP
- ⑯ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE CHANNELIZING LINE
- ⑰ RAISED REFLECTIVE PAVEMENT MARKER
- ⑱ RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)



USER NAME = mkosir	DESIGNED - MA	REVISED -
	DRAWN - MA	REVISED -
PLOT SCALE = 1.00' / 1in.	CHECKED - RH	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

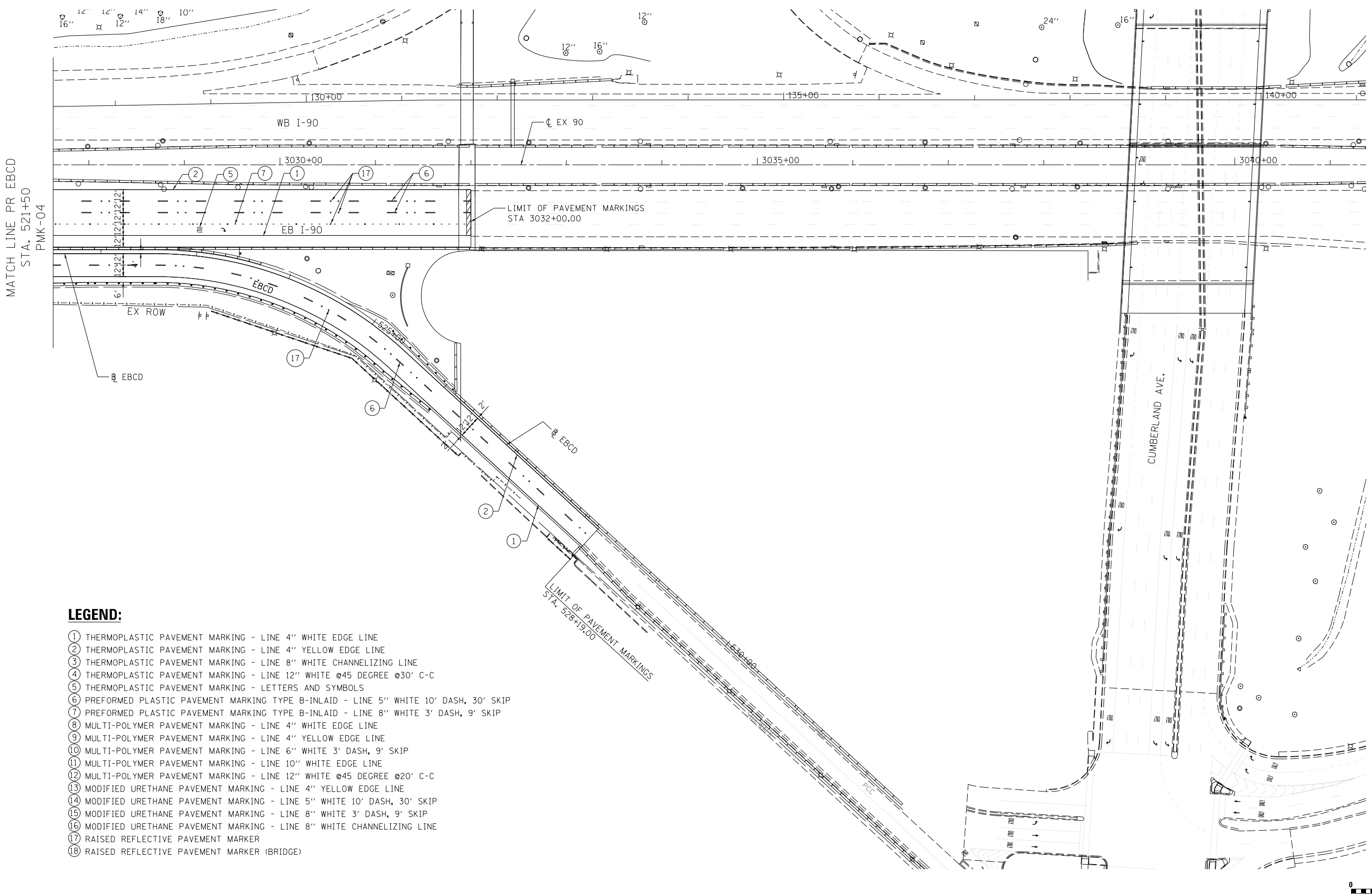
**PAVEMENT MARKING PLAN
CUMBERLAND FLYOVER PROJECT**

SCALE: 1" = 50' SHEET 4 OF 5 SHEETS STA. 508+00.00 TO STA. 521+50.00

F.A.I. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190		1517R-1(13)	COOK	580	148
CONTRACT NO. 60X56				ILLINOIS FED. AID PROJECT	

PMK-04

FILE NAME: I:\projects\60056\hntb\cumberland\Drawings\CDADD_Sheets\05\60056\hntb\pmk-05.dgn



LEGEND:

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE EDGE LINE
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW EDGE LINE
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 8" WHITE CHANNELIZING LINE
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE @45 DEGREE @30' C-C
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑥ PREFORMED PLASTIC PAVEMENT MARKING TYPE B-INLAID - LINE 5" WHITE 10' DASH, 30' SKIP
- ⑦ PREFORMED PLASTIC PAVEMENT MARKING TYPE B-INLAID - LINE 8" WHITE 3' DASH, 9' SKIP
- ⑧ MULTI-POLYMER PAVEMENT MARKING - LINE 4" WHITE EDGE LINE
- ⑨ MULTI-POLYMER PAVEMENT MARKING - LINE 4" YELLOW EDGE LINE
- ⑩ MULTI-POLYMER PAVEMENT MARKING - LINE 6" WHITE 3' DASH, 9' SKIP
- ⑪ MULTI-POLYMER PAVEMENT MARKING - LINE 10" WHITE EDGE LINE
- ⑫ MULTI-POLYMER PAVEMENT MARKING - LINE 12" WHITE @45 DEGREE @20' C-C
- ⑬ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" YELLOW EDGE LINE
- ⑭ MODIFIED URETHANE PAVEMENT MARKING - LINE 5" WHITE 10' DASH, 30' SKIP
- ⑮ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE 3' DASH, 9' SKIP
- ⑯ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" WHITE CHANNELIZING LINE
- ⑰ RAISED REFLECTIVE PAVEMENT MARKER
- ⑱ RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)



USER NAME = mkosir	DESIGNED - MA	REVISED -
	DRAWN - MA	REVISED -
PLOT SCALE = 1.00' / in.	CHECKED - RH	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
CUMBERLAND FLYOVER PROJECT**

SCALE: 1" = 50' SHEET 5 OF 5 SHEETS STA. 521+50.00 TO STA. 528+19.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	149
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

PMK-05



**GUIDE SIGN SEQUENCE
NUMBERING CODE**

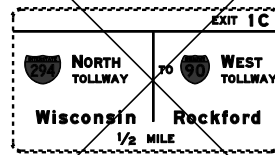
DIRECTION OF TRAFFIC: EB - EASTBOUND, WB - WESTBOUND

MOUNTING TYPE: TR - TRUSS, CL - CANTILEVER, BM - BRIDGE MOUNTED, WP - WOOD POST, BS - BREAKAWAY STEEL, LP - LIGHTPOLE, MP - METAL POST

SIGN PANEL TYPE: NW - NEW, ER - EXISTING TO REMAIN, EM - EXISTING TO BE REMOVED, EL - EXISTING TO BE RELOCATED

Code format: EB - TR - NW - 04 (SIGN PANEL NUMBER)

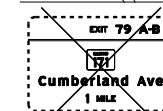
INSTALLED ON EXISTING TRUSS, EXIT 1D, MP 1.5
REMOVE EXISTING SIGN LIGHTING UNIT, NO SALVAGE



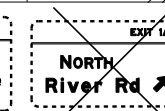
EB-TR-EM-01
EXIT 1C, MP 1.5



EB-TR-EM-02
EXIT 1C, MP 1.5



EB-TR-EM-03
EXIT 1A, MP 0.8
1S0161190L000.8



EB-TR-EM-04
EXIT 1A, MP 0.8
1S0161190L000.8

MATCH LINE
SEE SGN-EX-02



SGN-EX-01



USER NAME = mikosir	DESIGNED - MA	REVISED -
	DRAWN - MA	REVISED -
PLOT SCALE = 1.00' / 1in.	CHECKED - RH	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

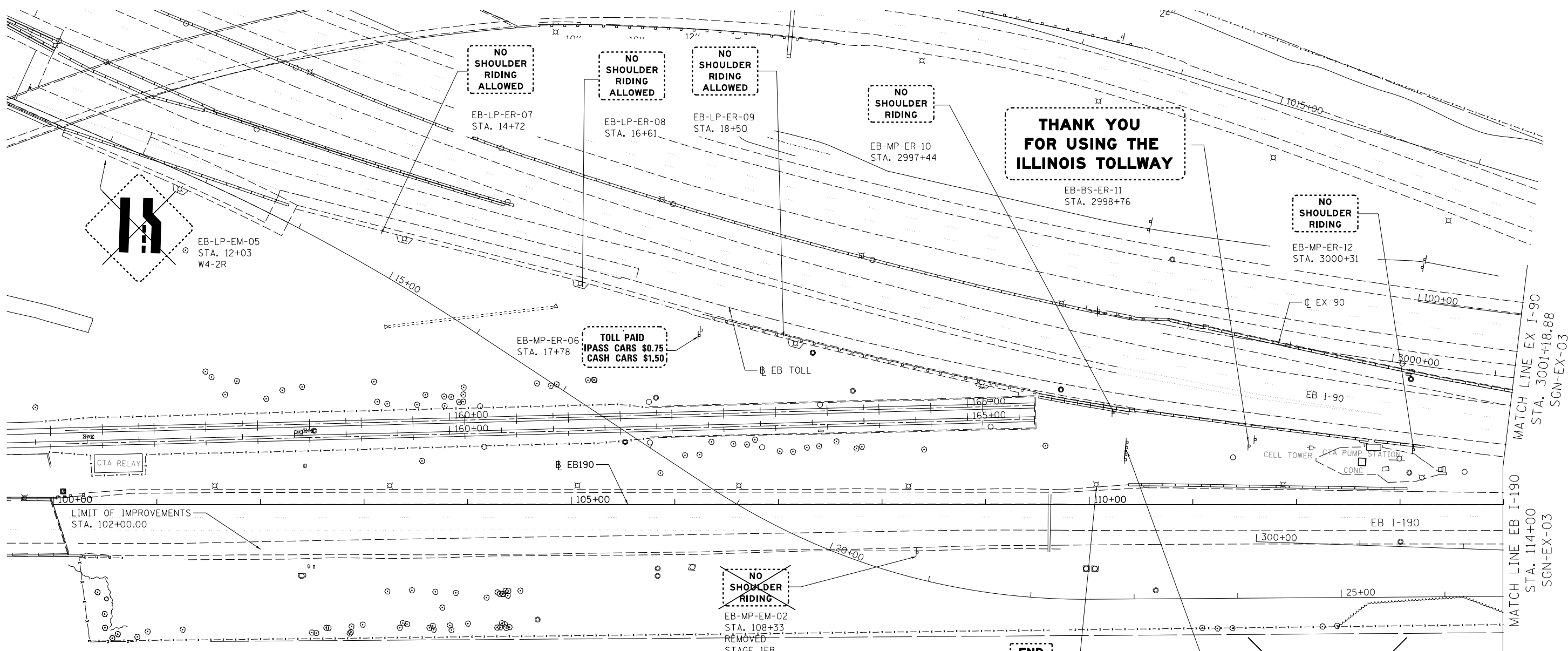
EXISTING SIGNING PLAN

SCALE: 1" = 200' SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	150
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

FILE NAME: P:\mike\56\hntb\sgn\1517R-1(13)\Documents\1517R-1(13)_SGN-EX-01.dgn

FILE NAME: I:\Projects\60X56\mto\sgf\I-190\Documents\Chicago\Projects\30120_1-190_CumberlandFlyover\Design\CADD\Contract\60X56_sht-1190-ex-02.dgn

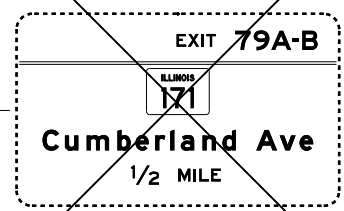


**GUIDE SIGN SEQUENCE
NUMBERING CODE**

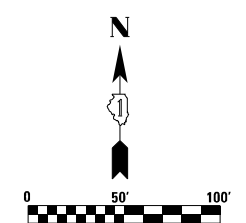
DIRECTION OF TRAFFIC		SIGN PANEL NUMBER	
EB - EASTBOUND	WB - WESTBOUND	TR - TRUSS	NW - NEW
MOUNTING TYPE		SIGN PANEL TYPE	
TR - TRUSS	CL - CANTILEVER	BM - BRIDGE MOUNTED	ER - EXISTING TO REMAIN
WP - WOOD POST	BS - BREAKAWAY STEEL	LP - LIGHTPOLE	EM - EXISTING TO BE REMOVED
MP - METAL POST			EL - EXISTING TO BE RELOCATED



EB-LP-ER-03
STA. 111+87
M4-6
M1-1



EB-BS-EM-04
STA. 110+35
REMOVED
STAGE 3EB



USER NAME = mkosir	DESIGNED - MA	REVISED -
	DRAWN - MA	REVISED -
PLOT SCALE = 1/80' / 1" =	CHECKED - RH	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

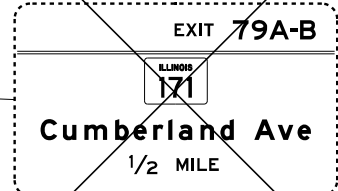
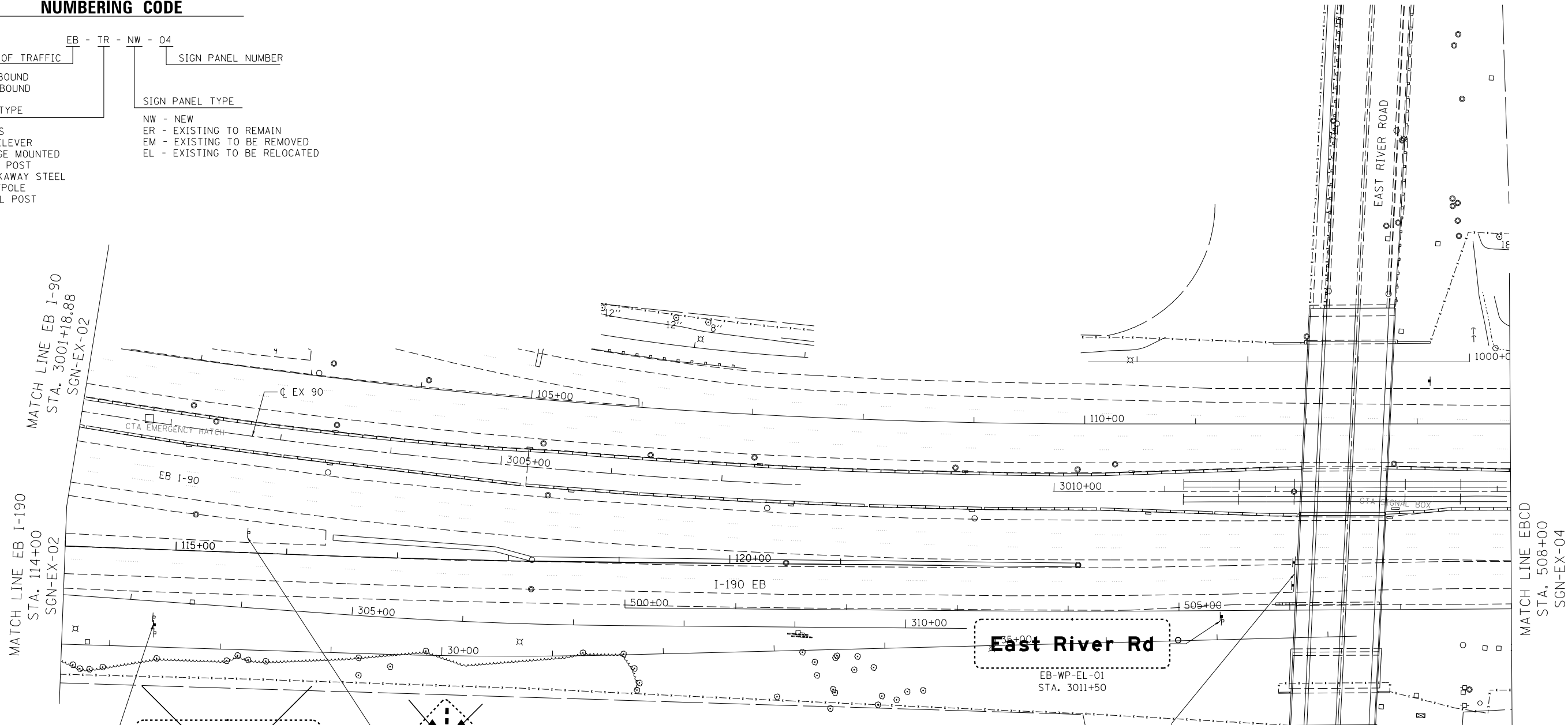
**EXISTING SIGNING PLAN
CUMBERLAND FLYOVER PROJECT**

SCALE: SHEET 2 OF 5 SHEETS STA. 100+00.00 TO STA. 114+00.00

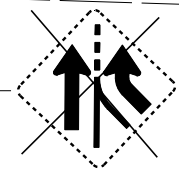
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	151
CONTRACT NO. 60X56			SGN-EX-02	
ILLINOIS FED. AID PROJECT				

**GUIDE SIGN SEQUENCE
NUMBERING CODE**

EB - TR - NW - 04
 DIRECTION OF TRAFFIC: EB - EASTBOUND, WB - WESTBOUND
 SIGN PANEL NUMBER: 04
 MOUNTING TYPE: TR - TRUSS, CL - CANTILEVER, BM - BRIDGE MOUNTED, WP - WOOD POST, BS - BREAKAWAY STEEL, LP - LIGHTPOLE, MP - METAL POST
 SIGN PANEL TYPE: NW - NEW, ER - EXISTING TO REMAIN, EM - EXISTING TO BE REMOVED, EL - EXISTING TO BE RELOCATED



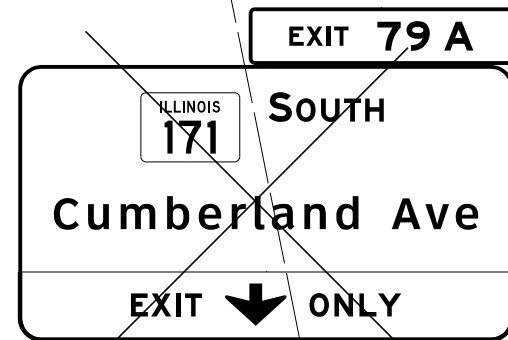
EB-BS-EM-13
STA. 114+82
REMOVED
STAGE 1EB



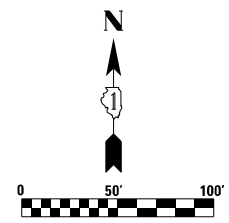
EB-MP-EM-14
STA. 115+64
W4-3



EB-BM-ER-16
STA. 3012+15



EB-BM-EM-17
STA. 3012+15



FILE NAME: \\hntb\p0556\hntb\p0556\mtdesign\p0556\Documents\Chicago\Project\1-190_Cumberland\Land\Design\CADD\Contract\60X56_sht\sgn-ex-03.dgn



USER NAME = mikosir	DESIGNED - MA	REVISED -
PLOT SCALE = 1:8000 / 1/8"	DRAWN - MA	REVISED -
PLOT DATE = 4/27/2016	CHECKED - RH	REVISED -
	DATE - 05/06/2016	REVISED -

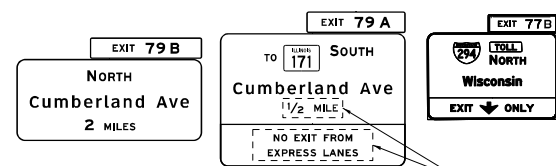
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING SIGNING PLAN
CUMBERLAND FLYOVER PROJECT

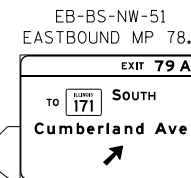
SCALE: 1" = 50' SHEET 3 OF 5 SHEETS STA. 114+00.00 TO STA. 508+00.00

F.A.I. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190		1517R-1(13)	COOK	580	152
				CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT					

SGN-EX-03



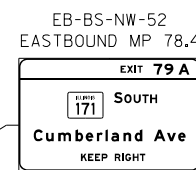
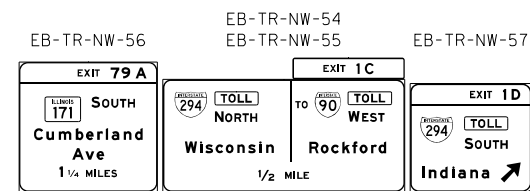
REMOVE TEMPORARY SIGN PANELS
PANELS ON NEW TRUSS (BY OTHERS)



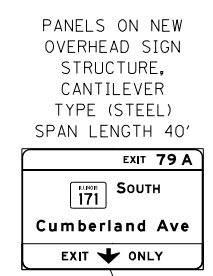
GUIDE SIGN SEQUENCE NUMBERING CODE

DIRECTION OF TRAFFIC: EB - EASTBOUND, WB - WESTBOUND
SIGN PANEL NUMBER: EB - TR - NW - 04
MOUNTING TYPE: TR - TRUSS, CL - CANTILEVER, BM - BRIDGE MOUNTED, WP - WOOD POST, BS - BREAKAWAY STEEL, LP - LIGHTPOLE, MP - METAL POST
SIGN PANEL TYPE: NW - NEW, ER - EXISTING TO REMAIN, EM - EXISTING TO BE REMOVED, EL - EXISTING TO BE RELOCATED

INSTALLED ON EXISTING TRUSS, EXIT 1D, MP 1.5
REMOVE EXISTING SIGN LIGHTING UNIT, NO SALVAGE

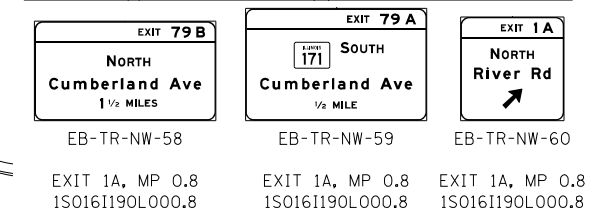


EB-CL-NW-53 EASTBOUND MP 78.6



REFER TO TOLLWAY STANDARD F4-07, "OVERHEAD SIGN STRUCTURE CANTILEVER TYPE STRUCTURE DETAILS" FOR TRUSS DESIGN AND FOUNDATION DESIGN REQUIREMENTS

MATCH LINE SEE SGN-02



FILE NAME: I:\hntb\5656\hntb\5656\Drawings\Documents\Chicago\Projects\190\1-190_Cumberland\Drawings\SGN-01.dwg, Project: 190, 1-190_Cumberland\Drawings\SGN-01.dwg, Sheet: 01 of 01, Date: 6/2/2016



USER NAME = mikosir	DESIGNED - MT	REVISED -
	DRAWN - MT	REVISED -
PLOT SCALE = 1:80' / 1"	CHECKED - RH	REVISED -
PLOT DATE = 6/2/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

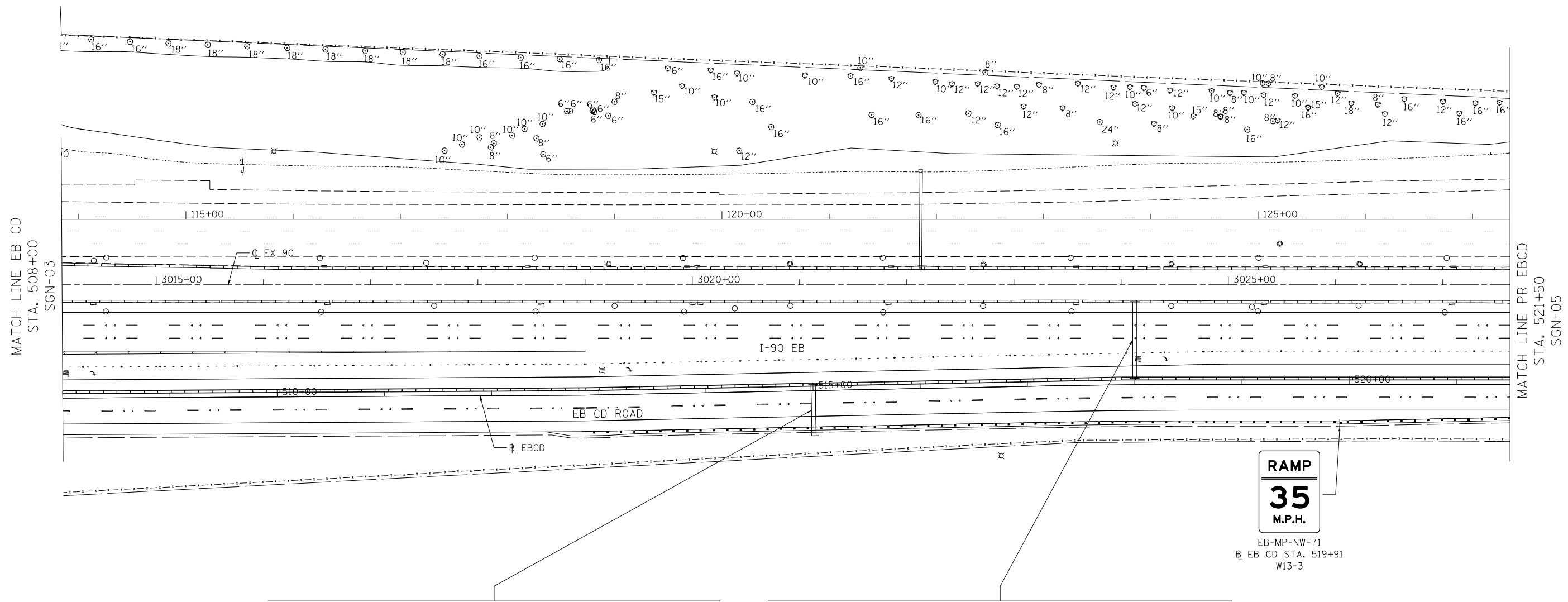
PROPOSED SIGNING PLAN

SCALE: 1" = 200' SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	155
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

SGN-01

FILE NAME: \\hntb\proj\5156\hntb\proj\5156\Documents\Chicago\Project\5156\1-198_CumberlandLandUseDesign\CADD\Contract\60X56\shh\sign\prop\sgn-04.dgn



RAMP
35
M.P.H.
EB-MP-NW-71
EB CD STA. 519+91
W13-3

**GUIDE SIGN SEQUENCE
NUMBERING CODE**

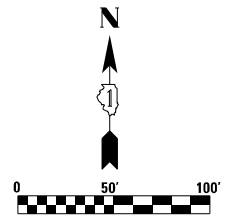
DIRECTION OF TRAFFIC: EB - EASTBOUND, WB - WESTBOUND
MOUNTING TYPE: TR - TRUSS, CL - CANTILEVER, BM - BRIDGE MOUNTED, WP - WOOD POST, BS - BREAKAWAY STEEL, LP - LIGHTPOLE, MP - METAL POST
SIGN PANEL NUMBER: EB - TR - NW - 04
SIGN PANEL TYPE: NW - NEW, ER - EXISTING TO REMAIN, EM - EXISTING TO BE REMOVED, EL - EXISTING TO BE RELOCATED

ILLINOIS 171 SOUTH
Cumberland Ave
↓
EB-TR-NW-68
EB CD STA. 515+00
SIGN STRUCTURE 1S0161090R079.3

Bryn Mawr Ave
↓

INTERSTATE 90 EAST
Kennedy Expy
Chicago Loop
LEFT 3 LANES
EB-TR-NW-69
EB CD STA. 518+00
SIGN STRUCTURE 1S0161090R079.4

EXIT 79 B
NORTH
Cumberland Ave
EXIT ↓ ONLY
EB-TR-NW-70
EB CD STA. 518+00
SIGN STRUCTURE 1S0161090R079.4



USER NAME = mikosir	DESIGNED - MA	REVISED -
PLOT SCALE = 1.00' / 1in.	DRAWN - MA	REVISED -
PLOT DATE = 4/27/2016	CHECKED - RH	REVISED -
	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

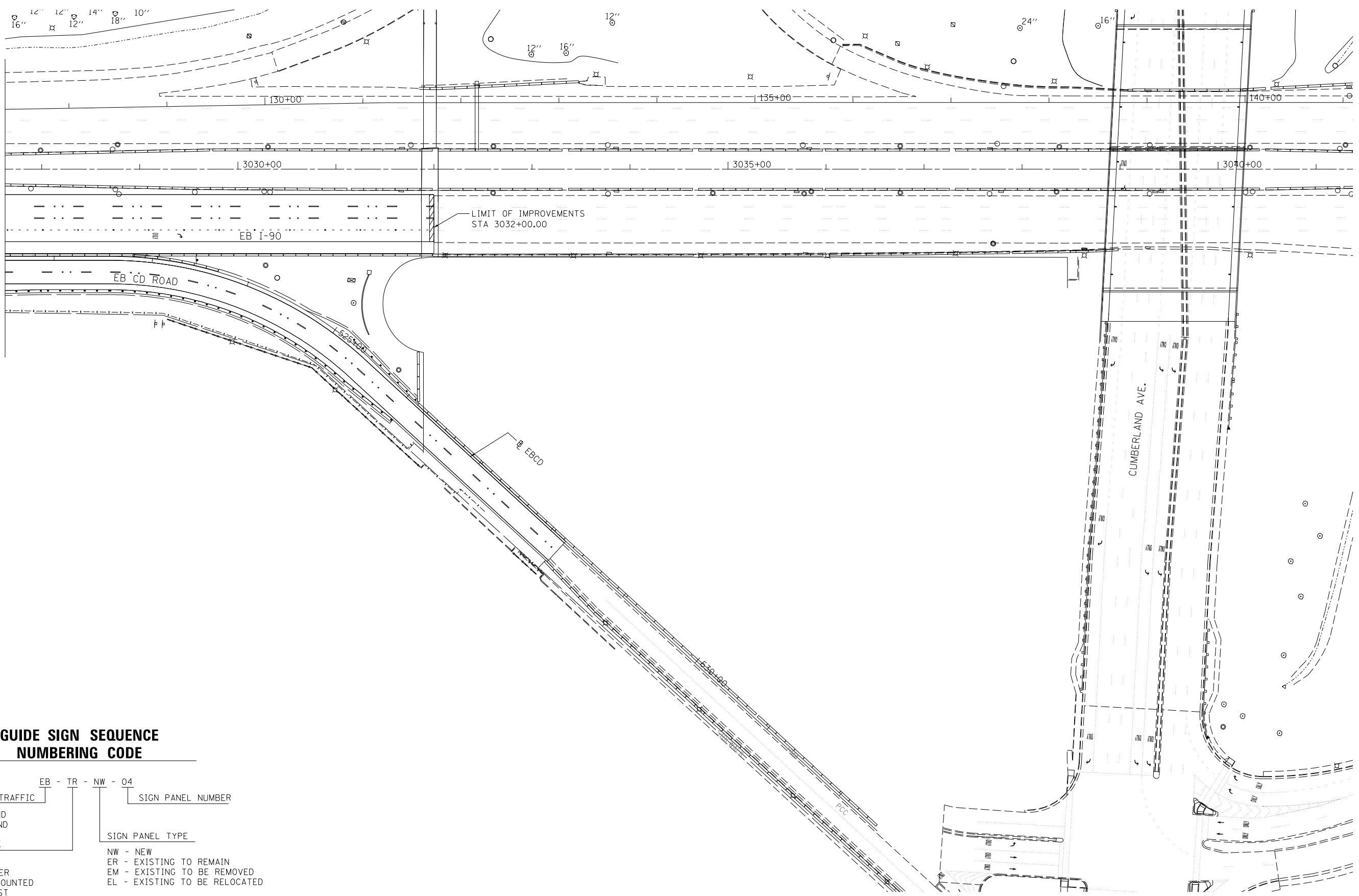
PROPOSED SIGNING PLAN
CUMBERLAND FLYOVER PROJECT

SCALE: SHEET 4 OF 5 SHEETS STA. 508+00.00 TO STA. 521+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	158
CONTRACT NO. 60X56			SGN-04	
ILLINOIS FED. AID PROJECT				

FILE NAME: \\hntb\proj\56\hntb\proj\56\hntb\proj\56\Documents\Drawings\1517R\Cumberland\Design\CADD\Contract\60X56\CADD_Sheets\1517R\Cumberland\Design\CADD\Contract\60X56\shh\sign\prop_05.dgn

MATCH LINE PR EBCD
STA. 521+50
SCN-04



**GUIDE SIGN SEQUENCE
NUMBERING CODE**

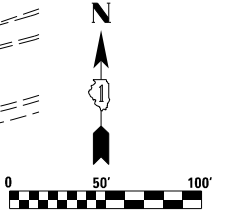
EB - TR - NW - 04

DIRECTION OF TRAFFIC: EB - EASTBOUND, WB - WESTBOUND

MOUNTING TYPE: TR - TRUSS, CL - CANTILEVER, BM - BRIDGE MOUNTED, WP - WOOD POST, BS - BREAKAWAY STEEL, LP - LIGHTPOLE, MP - METAL POST

SIGN PANEL NUMBER: 04

SIGN PANEL TYPE: NW - NEW, ER - EXISTING TO REMAIN, EM - EXISTING TO BE REMOVED, EL - EXISTING TO BE RELOCATED



USER NAME = mkosir	DESIGNED - MA	REVISED -
PLOT SCALE = 1/80' / 1" =	DRAWN - MA	REVISED -
PLOT DATE = 4/27/2016	CHECKED - RH	REVISED -
	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

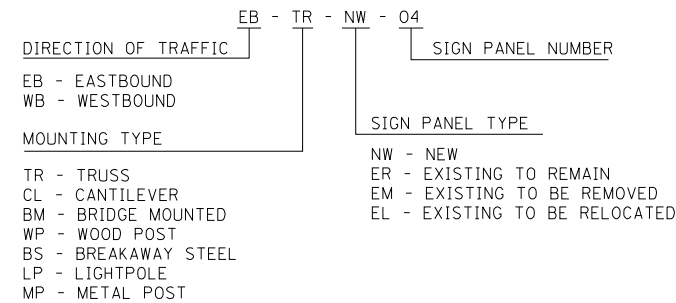
**PROPOSED SIGNING PLAN
CUMBERLAND FLYOVER PROJECT**

SCALE: SHEET 5 OF 5 SHEETS STA. 521+50.00 TO STA. 528+19.00

SGN-05	
F.A.I. RTE. 190	SECTION 1517R-1(13)
COUNTY COOK	TOTAL SHEETS 580
	SHEET NO. 159
CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT	

SIGN NO.	STATION	OFFSET	BASELINE	LEGEND / DESCRIPTION	MUTCD	EXISTING PANEL DIMENSIONS		REMOVE SIGN PANEL - TYPE B ASSEMBLY	REMOVE SIGN PANEL - TYPE 1	REMOVE SIGN PANEL - TYPE 2	REMOVE SIGN PANEL - TYPE 3	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	REMOVE OVH SIGN STRUCT. - SPAN	REMOVE GROUND MOUNTED SIGN SUPPORT	REMOVE CONC. FOUND. GROUND MOUNT	REMOVE CONC. FOUND. OVERHEAD	REMOVAL OF EXIST. SIGN LIGHTING UNIT, NO SALVAGE
						WIDTH (FT)	HEIGHT (FT)	(EACH)	(SQ FT)	(SQ FT)	(SQ FT)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)
								72400200	72400310	72400320	72400330	72400600	73600100	73700100	73700200	73700300	X0327303
EB-TR-EM-01	MP 1.5		EB I-190	EXIT 1C, 294 NORTH TOLL, MILWAUKEE, TO 90 WEST TOLL		26	12				312						1
EB-TR-EM-02	MP 1.5		EB I-190	EXIT 1D, 294 SOUTH TOLL, INDIANA		15	12				180						
EB-TR-EM-03	MP 0.8		EB I-190	EXIT 79A-B, IL 171, CUMBERLAND AVE., 1 MILE		20	12						1			1	
EB-TR-EM-04	MP 0.8		EB I-190	EXIT 1A, NORTH, RIVER ROAD		15	12										
EB-MP-EM-02	108+33	50' RT	EB I-190	NO SHOULDER RIDING	R4-17	4.0	3.0	1		12				1			
EB-LP-ER-03	111+87	19' LT	EB I-190	END 190 INTERSTATE ROUTE	M1-1	3.5	3.0								1		
EB-BS-EM-04	110+35	51' LT	EB I-190	EXIT 79A-B, IL 171, CUMBERLAND AVE., 1/2 MILE		20.0	9.0	1			180			4	4		
EB-LP-EM-05	2987+69	142' RT	EX 90	LANE ENDS	W4-2R	3.0	3.0		9.0								
EB-MP-ER-06	2993+42	105' RT	EX 90	TOLL PAID, I PASS CARS 0.75, CASH CARS 1.50		6.5	3.5										
EB-LP-ER-07	2990+37	106' RT	EX 90	NO SHOULDER RIDING ALLOWED	*R4-17	4.0	5.0										
EB-LP-ER-08	2992+23	100' RT	EX 90	NO SHOULDER RIDING ALLOWED	*R4-17	4.0	5.0										
EB-LP-ER-09	2994+16	95' RT	EX 90	NO SHOULDER RIDING ALLOWED	R4-17	4.0	5.0										
EB-MP-ER-10	2997+41	95' RT	EX 90	NO SHOULDER RIDING	R4-17	3.0	3.0										
EB-BS-ER-11	2998+73	100' RT	EX 90	THANK YOU FOR USING THE ILLINOIS TOLLWAY		15.0	8.0										
EB-MP-ER-12	3000+28	79' RT	EX 90	NO SHOULDER RIDING	R4-17	3.0	4.0										
EB-BS-EM-13	27+40	20' LT	EB FLYOVER	EXIT 79A-B, IL 171, CUMBERLAND AVE., 1/2 MILE		20.0	9.0	1			180.0			3	3		
EB-MP-EM-14	115+64	19' LT	EB I-190	ADDED LANE	W4-3R	4.0	4.0	1		16			1	1			
EB-WP-EL-15	37+06	15' RT	EB FLYOVER	EAST RIVER RD	D3-1	9.5	2.5					1					
EB-BM-ER-16	3012+15		EX 90	I 90, EAST, KENNEDY EXPY, CHICAGO LOOP		12.0	8.5										
EB-BM-EM-17	3012+15		EX 90	EXIT 97A, IL 171 SOUTH, CUMBERLAND AVE, EXIT ONLY		21.5	14.5				311.75						
EB-TR-EM-18	3024+64	50' RT	EX 90	I 90, EAST, KENNEDY EXPY, CHICAGO LOOP		26.0	9.0										
EB-TR-EM-19	3024+64	63' RT	EX 90	EXIT 79B, NORTH, CUMBERLAND AVE, EXIT ONLY		20.0	9.5						1			1	
EB-TR-EM-20	3024+64	84' RT	EX 90	EXIT 79A, IL 171 SOUTH, CUMBERLAND AVE, EXIT ONLY		20.0	12.0										
EB-MP-EM-21	519+91	24' RT	EB CD ROAD	RAMP, 35 MPH	W13-3	4.0	5.0	1		20				1	1		
EB-BS-EM-22	3029+57	94' RT	EB CD ROAD	EXIT 79A	E5-1a	5.5	3.5	1		19.25				1	1		
EB-BS-EM-23	3030+89	104' RT	EB CD ROAD	EXIT 79B, CTA PARK & RIDE		10.0	11.0	1			110			2	2		
TOTALS								7	9.00	67.25	1273.75	1	2	13	13	2	1

**GUIDE SIGN SEQUENCE
NUMBERING CODE**



FILE NAME: \\hntb\project\60x56\hntb\cadd\design\cadd\contract\60x56\sheet\sign-schedule-01.dgn



USER NAME = mikosir	DESIGNED - MA	REVISED -
PLOT SCALE = 1:8000 / 1/4"	DRAWN - MA	REVISED -
PLOT DATE = 4/27/2016	CHECKED - RH	REVISED -
	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**SCHEDULE OF QUANTITIES
EXISTING SIGNS**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

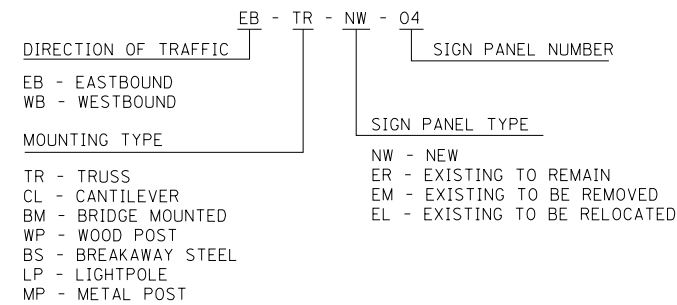
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	160
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X56	

SGN-SCH-01

CONTRACT 60X56
PROPOSED SIGNING SCHEDULE

SIGN NO.	STATION	OFFSET	BASELINE	LEGEND / DESCRIPTION	MUTCD	PROPOSED PANEL DIMENSIONS		SIGN PANEL TYPE 1	SIGN PANEL TYPE 2	SIGN PANEL TYPE 3	RELOCATE SIGN PANEL TYPE 1	RELOCATE SIGN PANEL TYPE 2	RELOCATE SIGN PANEL TYPE 3	METAL POST TYPE A	METAL POST TYPE B	WOOD SIGN POST	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	CONCRETE FOUNDATIONS
						WIDTH (FT)	HEIGHT (FT)	(SQ FT)	(SQ FT)	(SQ FT)	(SQ FT)	(SQ FT)	(SQ FT)	(SQ FT)	(FOOT)	(FOOT)	(FOOT)	(POUND)
								72000100	72000200	72000300	72400710	72400720	72400730	72900100	72900200	73000100	72700100	73400100
EB-BS-NW-51	MP 78.1		EX 90	TO IL 171, SOUTH, CUMBERLAND AVE		21.0	14.5			304.50							3000	5.7
EB-BS-NW-52	MP 78.4		EX 90	EXIT 79A, IL 171, SOUTH, CUMBERLAND AVE, KEEP RIGHT		21.0	13.0			273.00							3971	6.3
EB-CL-NW-53	MP 78.6		EX 90	EXIT 79A, IL 171, SOUTH, CUMBERLAND AVE, EXIT ONLY		21.0	14.0			294.00								
EB-TR-NW-54	MP 1.5		EB I-190	I-294, TOLL, NORTH, WISCONSIN, TO I-90, TOLL, WEST, ROCKFORD, 1/2 MILE		28.0	13.0			364.00								
EB-TR-NW-55	MP 1.5		EB I-190	EXIT 1C		13.0	2.5			32.50								
EB-TR-NW-56	MP 1.5		EB I-190	EXIT 79A, IL 171, SOUTH, CUMBERLAND AVE, 1 1/4 MILES		16.0	15.0			240.00								
EB-TR-NW-57	MP 1.5		EB I-190	EXIT 1D, I-294, TOLL, SOUTH, INDIANA		14.0	12.5			175.00								
EB-TR-NW-58	MP 0.8		EB I-190	EXIT 79B, NORTH, CUMBERLAND AVE, 1 1/2 MILES		21.0	11.5			241.50								
EB-TR-NW-59	MP 0.8		EB I-190	EXIT 79A, IL 171, SOUTH, CUMBERLAND AVE, 1/2 MILE		21.0	13.0			273.00								
EB-TR-NW-60	MP 0.8		EB I-190	EXIT 1A, NORTH, RIVER RD		12.0	12.0			144.00								
EB-CL-NW-61	106+25		EB I-190	EXIT 79A, IL 171, SOUTH, CUMBERLAND AVE, EXIT ONLY		21.0	14.0			294.00								
EB-MP-NW-62	109+00		EB I-190	DO NOT DRIVE ON SHOULDER	R4-17	4.0	5.0	20.00						32				
EB-BS-NW-63	110+35		EB I-190	EXIT 79B, NORTH, CUMBERLAND AVE, 3/4 MILE		21.0	12.0			252.00						3036	3.8	
EB-MP-NW-64	28+00		EB FLYOVER	ADDED LANE	W4-3	4.0	4.0	16.00						34				
EB-BM-NW-65	115+63		EB I-190	MERGE	W4-5	4.0	4.0	16.00						34				
EB-MP-EL-66	37+06		EB FLYOVER	EAST RIVER ROAD	D-3-1	9.5	2.5					23.75			26			
EB-BM-NW-67	3012+15		EX 90	EXIT 79B, NORTH, CUMBERLAND AVE, EXIT ONLY		21.0	12.0			252.00								
EB-TR-NW-68	515+00		EB CD	IL 171, SOUTH, CUMBERLAND AVE, BRYN MAWR AVE		30.0	13.0			390.00								
EB-TR-NW-69	518+00		EB CD	I-90, EAST, KENNEDY EXPY, CHICAGO LOOP, LEFT 3 LANES		17.5	10.5			183.75								
EB-TR-NW-70	518+00		EB CD	EXIT 79B, NORTH, CUMBERLAND AVE, EXIT ONLY		21.0	12.0			252.00								
EB-MP-NW-71	519+91		EB CD	RAMP 35 MPH	W13-3	3.0	4.0	12.00						32				
TOTALS								0.00	64.00	3965.25	0.00	23.75	0.00	0	132	26	10007	15.8

**GUIDE SIGN SEQUENCE
NUMBERING CODE**



USER NAME = mkosir	DESIGNED - MA	REVISED -
	DRAWN - MA	REVISED -
PLOT SCALE = 1:8000 / 1/8"	CHECKED - RH	REVISED -
PLOT DATE = 5/27/2016	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
PROPOSED SIGNS**

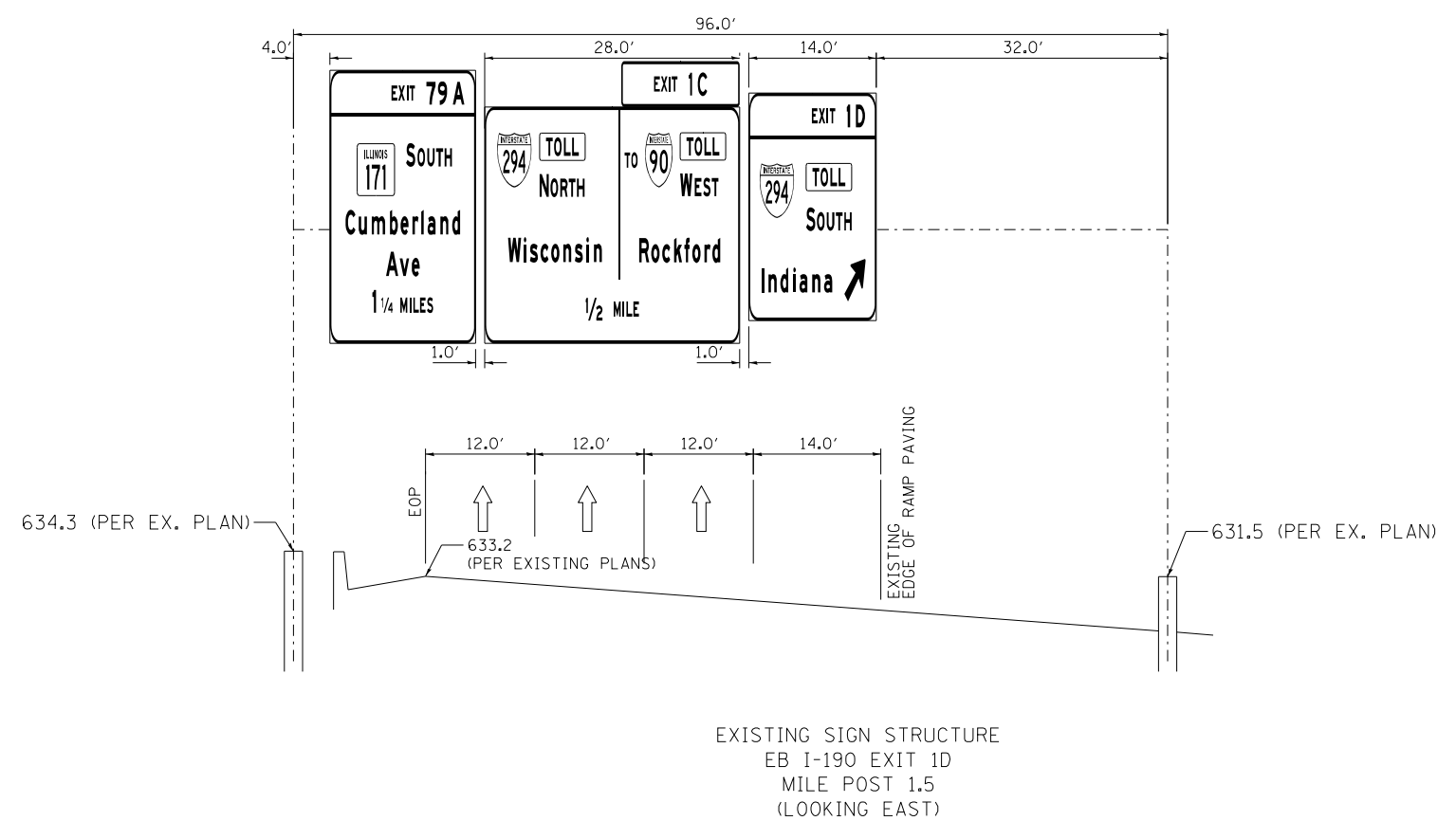
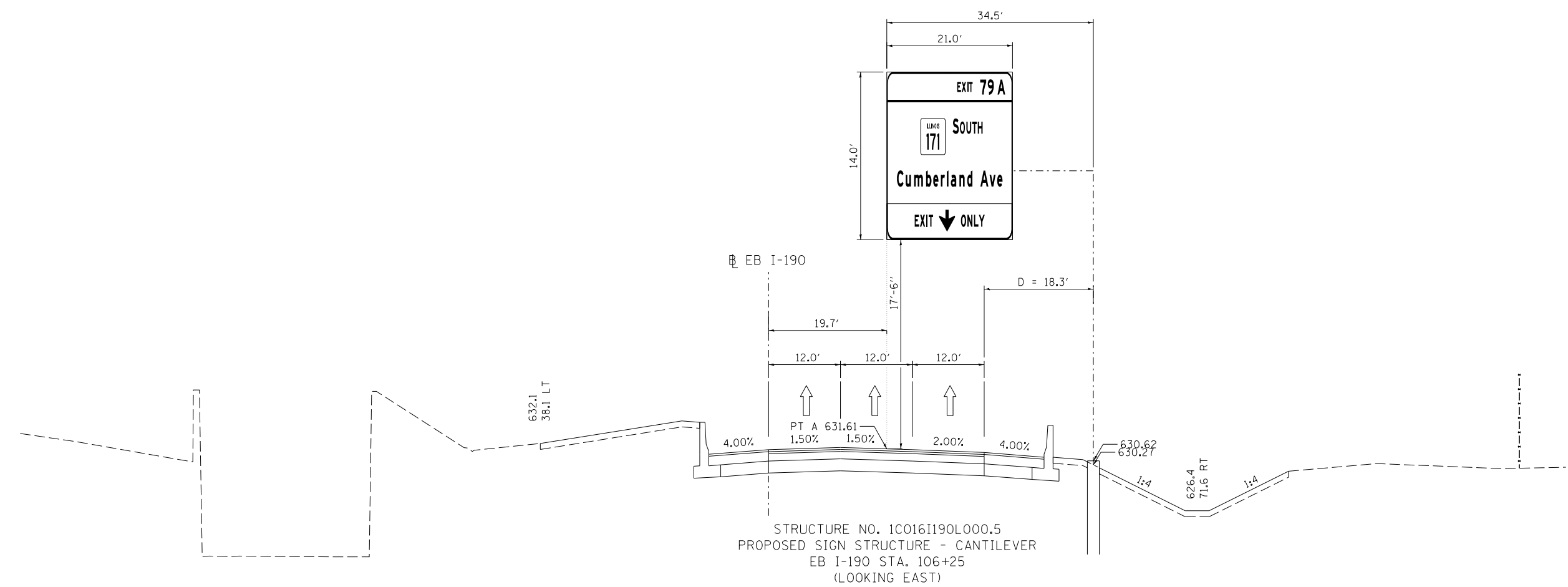
SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	161
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

SGN-SCH-02

FILE NAME: \\hntb\56\hntb\56\hntb\56\Documents\Chicago\Projects\30120_1\190_Cumberland\Design\CADD\Contract\60X56\CADD_Sheets\0160X56_sht_sgn_sched-02.dgn

FILE NAME: \\hntb.com\proj\1517R-1\190_Cumberland\Drawings\Drawings\CADD_Sheets\060556_CADD_Sheets\060556_sht_sgn-ovhd-01.dgn



USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED -
PLOT DATE = 4/28/2016	DATE = 05/06/2016	REVISED -

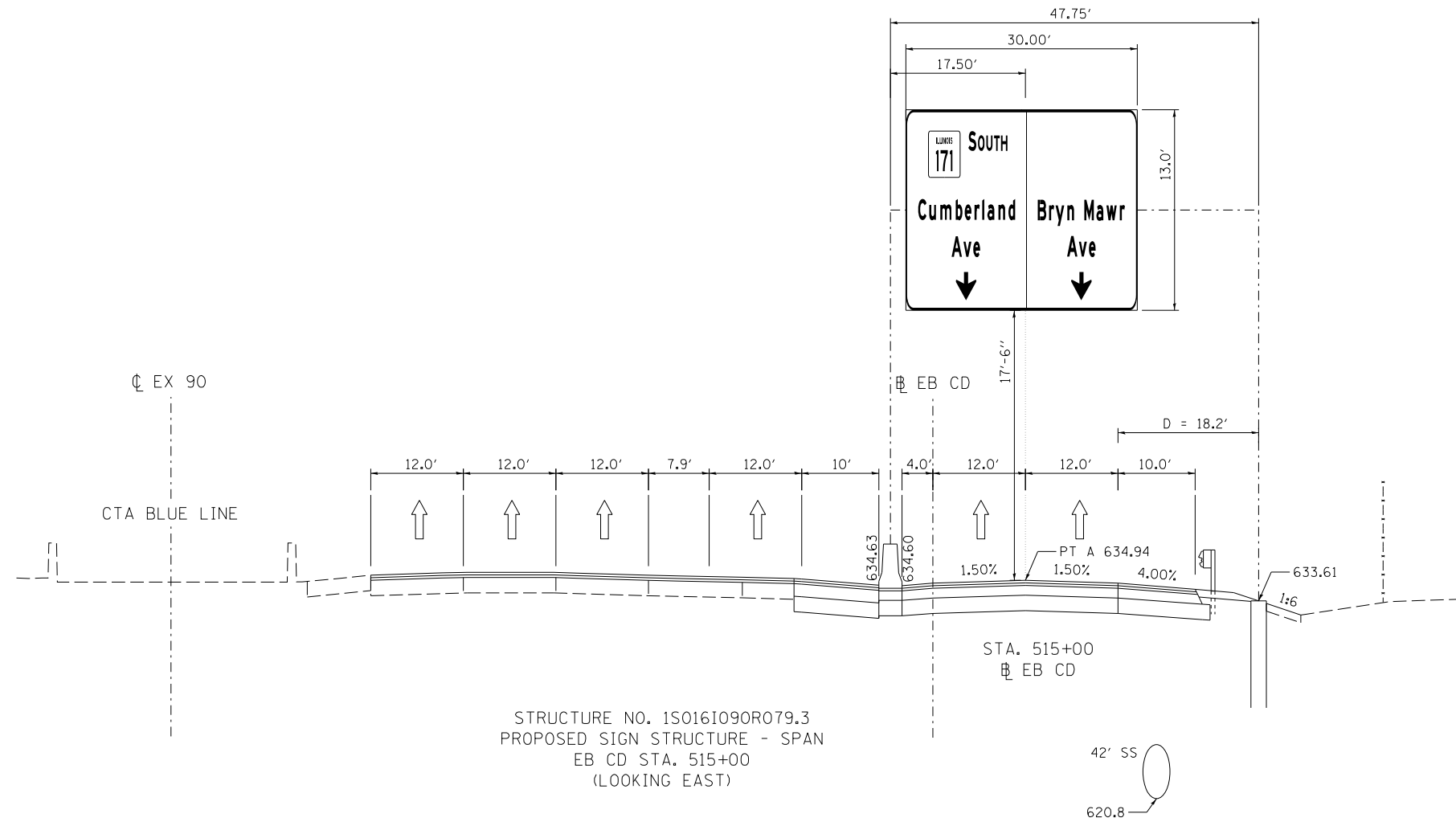
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES SIGN LAYOUT			
SCALE: 1" = 10'	SHEET 1	OF 3 SHEETS	STA. 106+25 TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	163
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

SGN-DET-01

FILE NAME: \\hntb\5656\hntb\org\PC\res\l\lakes\Documents\Chicago\Projects\20120-1-190-Cumberland\Design\CADD\Contract\60X56-shit\sign-ovhds-02.dgn



USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1/80' / 1/8"	CHECKED -	REVISED -
PLOT DATE = 4/28/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

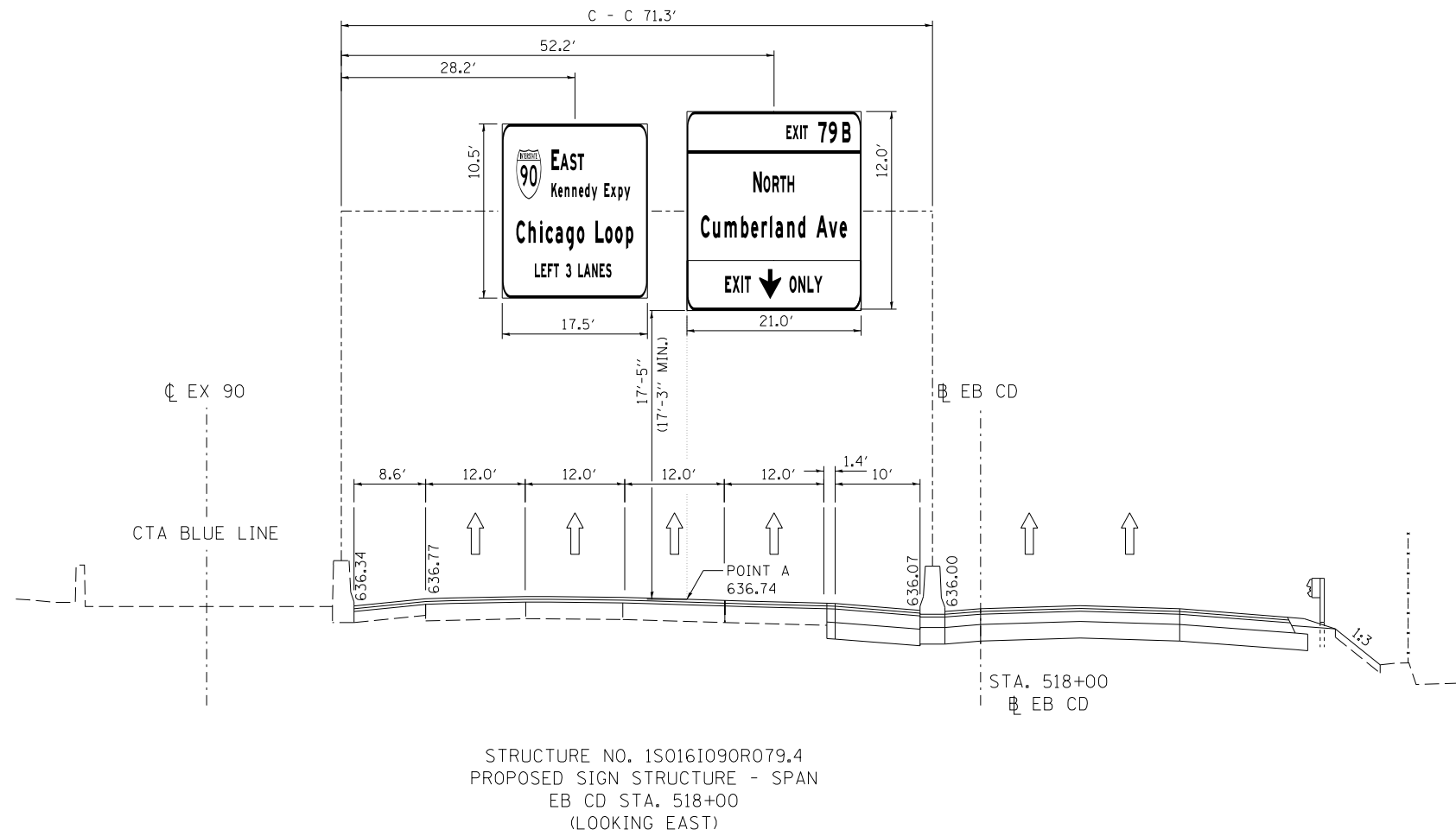
OVERHEAD SIGN STRUCTURES
 SIGN LAYOUT

SCALE: 1" = 10' SHEET 2 OF 3 SHEETS STA. 515+00 TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	164
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

SGN-DET-02

FILE NAME: \\hntb\5656\hntb\org\PC\res\Documents\Chicago\Projects\20120-1-190_Cumberland\Drawings\CADD\Contract\60X56-shit\sgn-ovhds-03.dgn



USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED -
PLOT DATE = 4/28/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SIGN LAYOUT

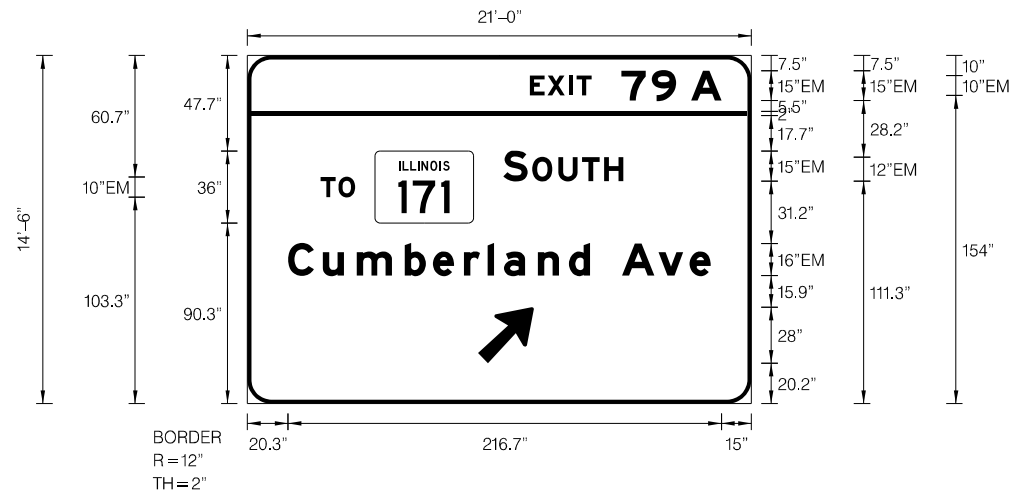
SCALE: 1" = 10' SHEET 3 OF 3 SHEETS STA. 518+00 TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	165
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

SGN-DET-03

EB I-90 MILE POST 78.1
GROUND MOUNTED

SIGN DETAIL
1:100



Panel Style: guide_fwy_advance_b.ssi
Dimensions are in inches.tenths
Letter locations are paneledge to lower left corner

SIGN NUMBER	EB-BS-NW-51
WIDTH x HGHT.	21'-0" x 14'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground
BACKGROUND	TYPE: TYPE ZZ COLOR: Green
LEGEND/BORDER	TYPE: TYPE ZZ COLOR: WhiteWhite

SYMBOL	ROT	X	Y	WID	HT
M1-I100A-3-22-10D	10D	63.9	90.3	49.1	36
AR_Type A	315	115.3	20.2	22.2	35.6

LETTER POSITIONS (X)														LENGTH	SERIESIZE	
E	X	I	T	7	9	A									EM 2000	
141.3	150.1	160.9	164.7	187.1	202.2	221.9									95.8	10,15
S	O	U	T	H												EM 2000
128	142.5	155.4	167.3	178.3											60.1	15,12
T	O															EM 2000
36.7	45.5														17.2	10
C	u	m	b	e	r	l	a	n	d	A	v	e				EM 2000
20.3	37.8	54.7	78.7	92.8	108.3	120.2	128.3	145.3	160.8	171.4	187.4	205.6	221.1		211.4	16/12

FILE NAME = ...D:\2016\2016-art-sign-panel-TOL-02.dgn



USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1/80' / 1/8"	CHECKED - LLS	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

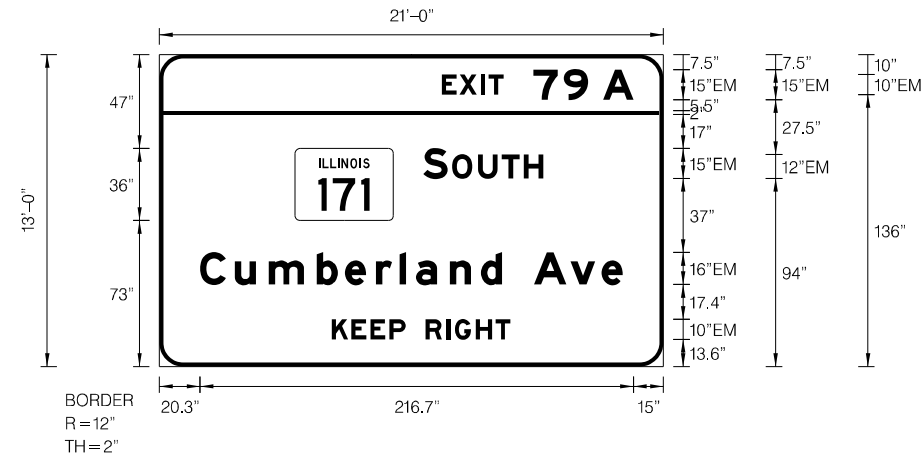
TOLLWAY SIGN PANEL DETAILS			
SCALE: 1" = NTS	SHEET 2 OF 4 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	167
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

SGN-TOLL-02

EB I-90 MILE POST 78.4
GROUND MOUNTED

SIGN DETAIL
1:100



Panel Style: guide_fwy_advance_b.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_fwy_advance_b.ssi
Dimensions are in inches.tenths

Letter locations are paneledge to lower left corner

SIGN NUMBER	EB-BS-NW-52
WIDTH x HGHT.	21'-0" x 13'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground
BACKGROUND	TYPE: TYPE ZZ COLOR: Green
LEGEND/BORDER	TYPE: TYPE ZZ COLOR: WhiteWhite

SYMBOL	ROT	X	Y	WID	HT
M1-I100A-3-22-10D		67.9	73	49.1	36

LETTER POSITIONS (X)																	LENGTH	SERIESSIZE	
E	X	I	T	7	9	A												EM 2000	
141.3	150.1	160.9	164.7	187.1	202.2	221.9												95.8	10,15
S	O	U	T	H															EM 2000
132	146.4	159.4	171.2	182.3														60	15,12
C	u	m	b	e	r	l	a	n	d		A	v	e						EM 2000
20.3	37.8	54.7	78.7	92.8	108.3	120.2	128.3	145.3	160.8	171.4	187.4	205.6	221.1					211.4	1612
K	E	E	P		R	I	G	H	T										EM 2000
86.3	96.1	105.6	115.1	123.2	133.2	143.4	147.8	158.3	168.2									89.3	10

FILE NAME: ...D:\2016\2016-ant-t-sign-panel-TOL-03.dgn



USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.00' / 1in.	CHECKED - LLS	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOLLWAY SIGN PANEL DETAILS

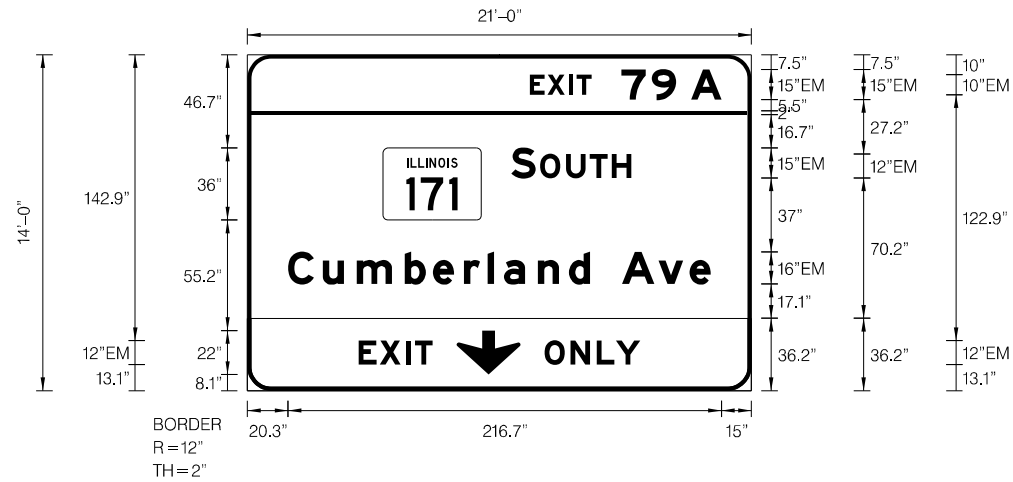
SCALE: 1" = NTS SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	168
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

SGN-TOLL-03

EB I-90 MILE POST 78.4
OVERHEAD SIGN STRUCTURE, CANTILEVER TYPE (STEEL)

SIGN DETAIL
1:100



Panel Style: guide_fwy_advance_b.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_fwy_advance_b.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	EB-CL-NW-53
WIDTH x HGHT.	21'-0" x 14'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: TYPE ZZ COLOR: Green
LEGEND/BORDER	TYPE: TYPE ZZ COLOR: BlackWhiteWhite

SYMBOL	ROT	X	Y	WID	HT
M1-I100A-3-22-10D	0	67.9	85.3	49.1	36
ARDOWN	0	104.6	8.1	32	22

LETTER POSITIONS (X)														LENGTH	SERIESSIZE	
E	X	I	T	7	9	A									EM 2000	
141.3	150.1	160.9	164.7	187.1	202.2	221.9									95.8	10,15
S	O	U	T	H												EM 2000
132	146.4	159.4	171.2	182.3											60	15,12
C	u	m	b	e	r	l	a	n	d	A	v	e				EM 2000
20.3	37.8	54.7	78.7	92.8	108.3	120.2	128.3	145.3	160.8	171.4	187.4	205.6	221.1		211.4	16,12
E	X	I	T													EM 2000
55.7	66.3	79.2	83.8												37	12
O	N	L	Y													EM 2000
148.6	161.6	174.7	184.3												47.8	12

FILE NAME = ...D:\2016\2016-art-sign-panel-10L-04.dgn



USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.00' / 1in.	CHECKED - LLS	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOLLWAY SIGN PANEL DETAILS

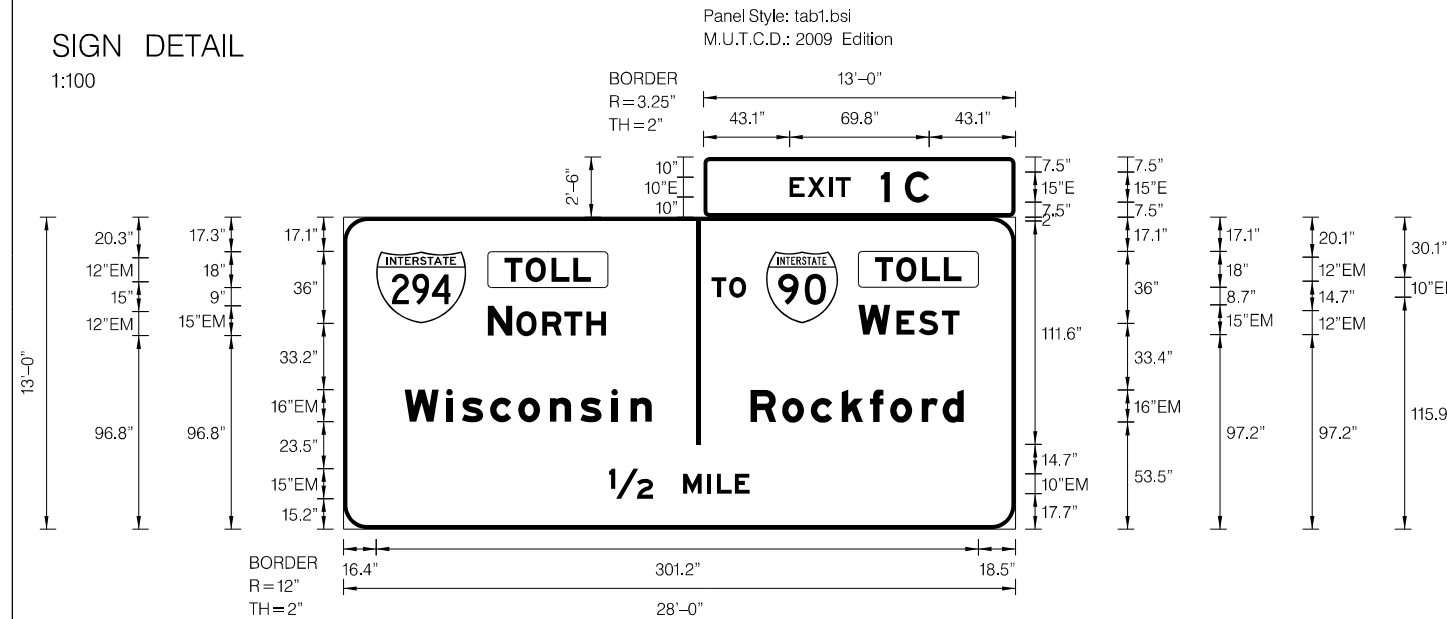
SCALE: 1" = NTS SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	169
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

SGN-TOLL-04

EB I-190 MILE POST 1.5
EXIT 1D, EXISTING SIGN TRUSS

SIGN DETAIL
1:100



SIGN NUMBER	EB-TR-NW-54,55
WIDTH x HGHT.	28'-0" x 13'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: TYPE ZZ COLOR: Green
LEGEND/BORDER	TYPE: TYPE ZZ COLOR: White/Black/White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	16.4	102.9	45	36
M1_1	0	211.3	102.9	36	36

Panel Style: guide_fwy_OH_APL.ssi
Dimensions are in inches.tenths

Panel Style: guide_fwy_OH_APL.ssi
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

											LENGTH	SERIES-SIZE
E	X	I	T	1	C						65.7	E 2000 10,15
43.1	56	66.7	70.2	92.7	100.7							
T	O	L	L								43.2	EM 2000 12
80.6	91.2	104.1	114.9									
T	O	L	L								43.2	EM 2000 12
265.9	276.5	289.4	300.2									
T	O										17.2	EM 2000 10
184.1	192.9											
N	O	R	T	H							59.1	EM 2000 15,12
72.2	86.5	99.5	110.5	121.6								
W	E	S	T								50.5	EM 2000 15,12
257.5	276.6	287.7	299.2									
W	i	s	c	o	n	s	i	n			123.5	EM 2000 16/12
30.6	51.4	59.3	73.4	87.4	103.3	118.5	134	143.6				
R	o	c	k	f	o	r	d				106.7	EM 2000 16/12
203.5	219.4	233.8	249.3	263.2	273.5	289.3	299.7					
1/2	M	I	L	E							70.3	EM 2000 15,10
132.9	169.9	182	186.8	195.8								

FILE NAME: ...D:\2016\1517R-1(13)-sign-panel-01.dgn



USER NAME = mikosir	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.00' / in.	CHECKED - LLS	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

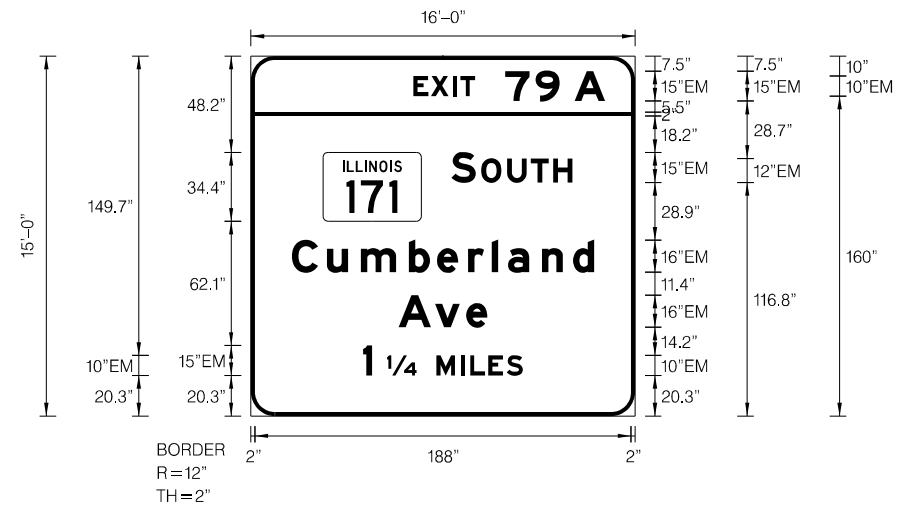
SCALE: 1" = NTS SHEET 1 OF 13 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	170
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

SGN-PD-01

EB I-190 MILE POST 1.5
EXIT 1D, EXISTING SIGN TRUSS

SIGN DETAIL
1:100



Panel Style: guide_fwy_advance_a.ssi
Dimensions are in inches.tenths

Panel Style: guide_fwy_advance_a.ssi
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

SIGN NUMBER	EB-TR-NW-56
WIDTH x HGHT.	16'-0" x 15'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: TYPE ZZ
	COLOR: Green
LEGEND/BORDER	TYPE: TYPE ZZ
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1-H100A-3-42-20D	0	36.1	97.4	49.1	34.4

LETTER POSITIONS (X)																LENGTH	SERIES/SIZE		
E	X	I	T	7	9	A											EM 2000		
81.3	90.1	100.9	104.7	127.1	142.2	161.9											95.8	10,15	
S	O	U	T	H														EM 2000	
100.2	115.2	128.1	140	151													60.6	15,12	
C	u	m	b	e	r	I	a	n	d									EM 2000	
20.5	37.9	54.9	78.9	93	108.5	120.3	128.5	145.5	161								151	16/12	
A	v	e																EM 2000	
73.9	92.1	107.6															44.3	16/12	
1	1/4	M	I	L	E	S												EM 2000	
56.1	68.1	92.8	104.9	109.7	118.7	127.9											79.9	15,10	

FILE NAME: ...D:\2016\2016-ant-truss-panel-02.dgn



USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1/80' / 1"	CHECKED - LLS	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

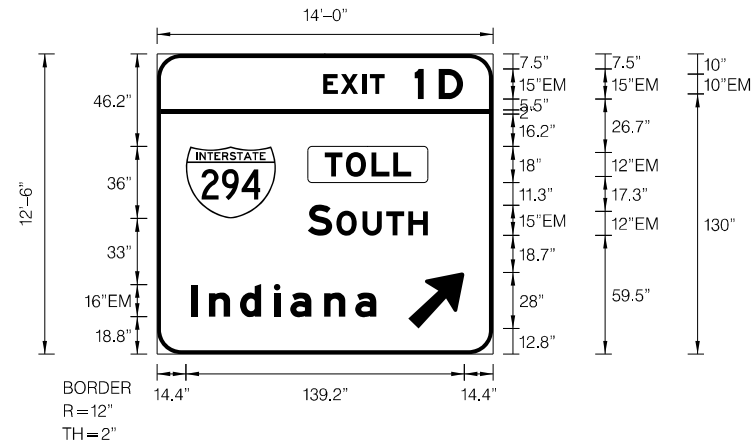
SIGN PANEL DETAILS		
SCALE: 1" = NTS	SHEET 2 OF 12 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	171
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

SGN-PD-02

EB I-190 MILE POST 1.5
EXIT 1D, EXISTING SIGN TRUSS

SIGN DETAIL
1:100



Panel Style: guide_fwy_OH_APL.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	EB-TR-NW-57
WIDTH x HGHT.	14'-0" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: TYPE ZZ
	COLOR: Green
LEGEND/BORDER	TYPE: TYPE ZZ
	COLOR: White/Black/White

SYMBOL	ROT	X	Y	WID	HT
MI_1	0	14.4	67.8	45	36
AR_Type A	315	125.7	12.8	22.1	35.6

LETTER POSITIONS (X)

LETTER POSITIONS (X)													LENGTH	SERIES-SIZE			
E	X	I	T	1	D										EM 2000		
83.1	91.9	102.7	106.5	128.9	140.9										70	10,15	
T	O	L	L													EM 2000	
83.8	94.4	107.3	118.1												43.2	12	
S	O	U	T	H												EM 2000	
75.4	89.8	102.7	114.6	125.6											60	15,12	
I	n	d	i	a	n	a										EM 2000	
17.3	26	41.5	58.5	66.6	83.6	99.1									92.3	16/12	

FILE NAME: ...D:\2016\1517R-1(13)-sign-panel-03.dgn



USER NAME = micosir	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.00' / in.	CHECKED - LLS	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

SCALE: 1" = NTS SHEET 3 OF 12 SHEETS STA. TO STA.

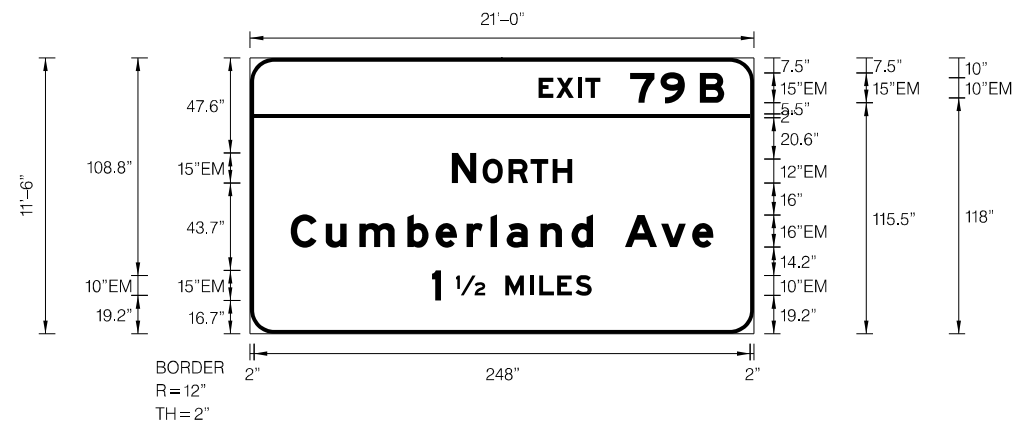
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	172
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

SGN-PD-03

EB I-190 MILE POST 0.8
EXIT 1A, NEW SIGN TRUSS (1S016I190L000.8)

SIGN DETAIL

1:100



Panel Style: guide_fw_advance_b.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_fw_advance_b.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	EB-TR-NW-58
WIDTH x HGHT.	21'-0" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: TYPE ZZ
	COLOR: Green
LEGEND/BORDER	TYPE: TYPE ZZ
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

														LENGTH	SERIES/SIZE		
E	X	I	T	7	9	B										EM 2000	
144.3	153.1	163.9	167.7	190.1	205.2	224.9										92.8	10,15
N	O	R	T	H													EM 2000
100.9	116.3	129.2	140.3	151.3												60.1	15,12
C	u	m	b	e	r	I	a	n	d		A	v	e				EM 2000
20.3	37.8	54.7	78.7	92.8	108.3	120.2	128.3	145.3	160.8	171.4	187.4	205.6	221.1			211.4	1642
1	12	M	I	L	E	S											EM 2000
91	103	127.6	139.7	144.5	153.5	162.7										79.9	15,10

FILE NAME: ...D:\2016\190-ant-truss-panel-04.dgn



USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.00' / 1in.	CHECKED - LLS	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED [1]-03/06/2015 CR 01

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

SCALE: 1" = NTS SHEET 4 OF 12 SHEETS STA. TO STA.

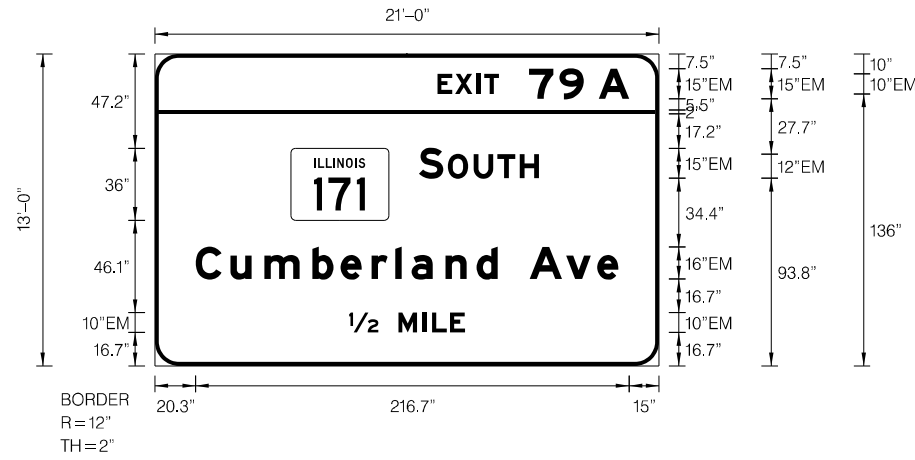
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	173
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

SGN-PD-04

EB I-190 MILE POST 0.8
EXIT 1A, NEW SIGN TRUSS (1S016I190L000.8)

SIGN DETAIL

1:100



Panel Style: guide_exp_advance_b.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_exp_advance_b.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	EB-TR-NW-59
WIDTH x HGHT.	21'-0" x 13'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: TYPE ZZ COLOR: Green
LEGEND/BORDER	TYPE: TYPE ZZ COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
MI-1100A-3-42-20D	0	67.9	72.8	49.1	36

LETTER POSITIONS (X)

																LENGTH	SERIES/SIZE
E	X	I	T	7	9	A										95.7	EM 2000 10,15
141.3	150.1	160.9	164.7	187.1	202.2	221.9											
S	O	U	T	H												60.1	EM 2000 15,12
132	146.4	159.4	171.3	182.3													
C	u	m	b	e	r	l	a	n	d		A	v	e			211.4	EM 2000 16,12
20.3	37.8	54.7	78.7	92.8	108.3	120.2	128.3	145.3	160.8	171.4	187.4	205.6	221.1				
12	M	I	L	E												58	EM 2000 10
97	121.7	133.8	138.6	147.6													

FILE NAME: ...D:\2016\2016-ant-truss-panel-05.dgn



USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.00' / 1in.	CHECKED - LLS	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGN PANEL DETAILS			
SCALE: 1" = NTS	SHEET 5 OF 12 SHEETS	STA.	TO STA.

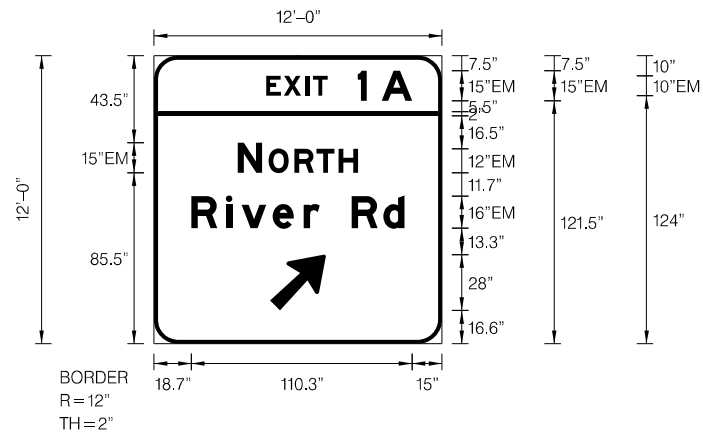
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	174
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

SGN-PD-05

EB I-190 MILE POST 0.8
EXIT 1A, NEW SIGN TRUSS (1S0161190L000.8)

SIGN DETAIL

1:100



Panel Style: guide_exp_overhead.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_exp_overhead.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	EB-TR-NW-60
WIDTH x HGHT.	12'-0" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: TYPE ZZ
	COLOR: Green
LEGEND/BORDER	TYPE: TYPE ZZ
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	315	58	16.6	22.2	35.6

LETTER POSITIONS (X)																	LENGTH	SERIES/SIZE
E	X	I	T	1	A													EM 2000
56.1	64.9	75.7	79.5	101.9	113.9													73 10,15
N	O	R	T	H														EM 2000
42	57.3	70.3	81.3	92.3														60.1 15,12
R	i	v	e	r		R	d											EM 2000
18.7	36	43.9	59.4	74.9	82.9	98.9	114.7											106.6 16/12

FILE NAME: ...01626256-art-truss-panel-08.dgn



USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.00' / in.	CHECKED - LLS	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

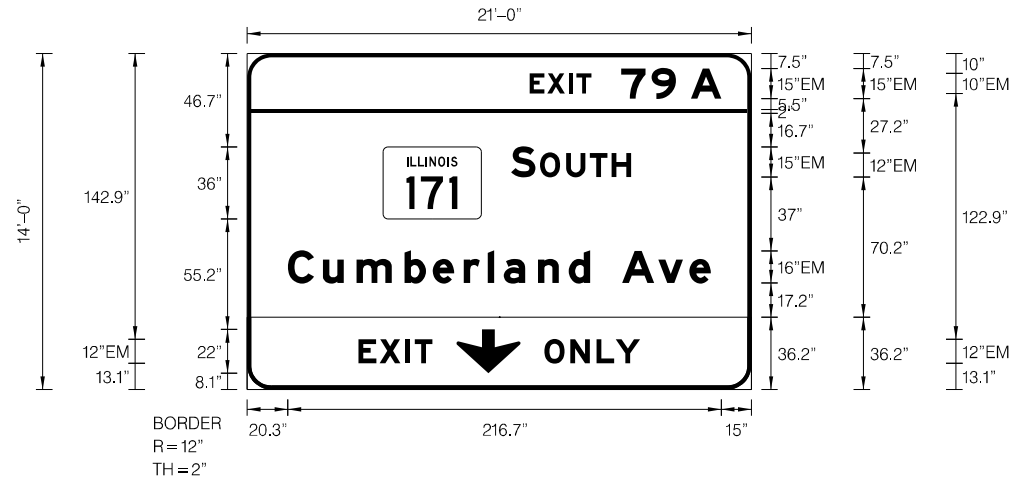
SCALE: 1" = NTS SHEET 6 OF 12 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	175
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

SGN-PD-06

EB I-190 STA. 106+25
SIGN STRUCTURE 1C0161190L000.5 (CANTILEVER OVER I-190)

SIGN DETAIL
1:100



Panel Style: guide_fwy_advance_b.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_fwy_advance_b.ssi
Dimensions are in inches.tenths

Letter locations are paneledge to lower left corner

SIGN NUMBER	EB-CL-NW-61
WIDTH x HGHT.	21'-0" x 14'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: TYPE ZZ COLOR: Green
LEGEND/BORDER	TYPE: TYPE ZZ COLOR: BlackWhiteWhite

SYMBOL	ROT	X	Y	WID	HT
M-1100A-3-42-20D	0	67.9	85.3	49.1	36
ARDOWN	0	104.6	8.1	32	22

LETTER POSITIONS (X)																	LENGTH	SERIES/SIZE
E	X	I	T	7	9	A											95.7	EM 2000 10,15
141.3	150.1	160.9	164.7	187.1	202.2	221.9												
S	O	U	T	H													60	EM 2000 15,12
132	146.4	159.4	171.2	182.3														
C	u	m	b	e	r	l	a	n	d	A	v	e					211.4	EM 2000 16/12
20.3	37.8	54.7	78.7	92.8	108.3	120.2	128.3	145.3	160.8	171.4	187.4	205.6	221.1					
E	X	I	T														37	EM 2000 12
55.7	66.2	79.2	83.7															
O	N	L	Y														47.8	EM 2000 12
148.6	161.6	174.7	184.3															

FILE NAME: ...0161190L000.5-art-sign-panel-07.dgn



USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.00' / in.	CHECKED - LLS	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

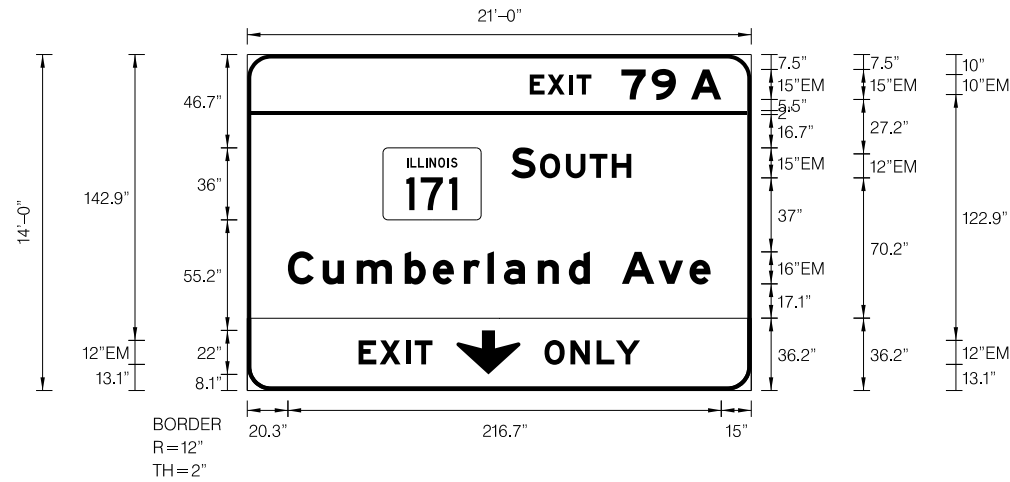
SCALE: 1" = NTS SHEET 7 OF 12 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	176
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

SGN-PD-07

EB I-90 MILE POST 78.6
OVERHEAD SIGN STRUCTURE, CANTILEVER TYPE (STEEL)

SIGN DETAIL
1:100



Panel Style: guide_fwy_advance_b.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_fwy_advance_b.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	EB-CL-NW-53
WIDTH x HGHT.	21'-0" x 14'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: TYPE ZZ COLOR: Green
LEGEND/BORDER	TYPE: TYPE ZZ COLOR: BlackWhiteWhite

SYMBOL	ROT	X	Y	WID	HT
M1-I100A-3-22-10D	10D	67.9	85.3	49.1	36
ARDOWN	0	104.6	8.1	32	22

LETTER POSITIONS (X)

LETTER POSITIONS (X)																LENGTH	SERIES/SIZE
E	X	I	T	7	9	A											EM 2000
141.3	150.1	160.9	164.7	187.1	202.2	221.9											95.8
S	O	U	T	H													EM 2000
132	146.4	159.4	171.2	182.3													60
C	u	m	b	e	r	l	a	n	d	A	v	e					EM 2000
20.3	37.8	54.7	78.7	92.8	108.3	120.2	128.3	145.3	160.8	171.4	187.4	205.6	221.1				211.4
E	X	I	T														EM 2000
55.7	66.3	79.2	83.8														37
O	N	L	Y														EM 2000
148.6	161.6	174.7	184.3														47.8

FILE NAME: \\hntb\5656\hntb\org\p\c\res\l\lakes\Documents\Chicago\Projects\30120\1-190_Cumberland\Design\CADD\Contract\60X56\sh\sign\panel-TOLL-04.dgn



USER NAME = mkostr	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1/80' / in.	CHECKED - LLS	REVISED -
PLOT DATE = 5/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOLLWAY SIGN PANEL DETAILS

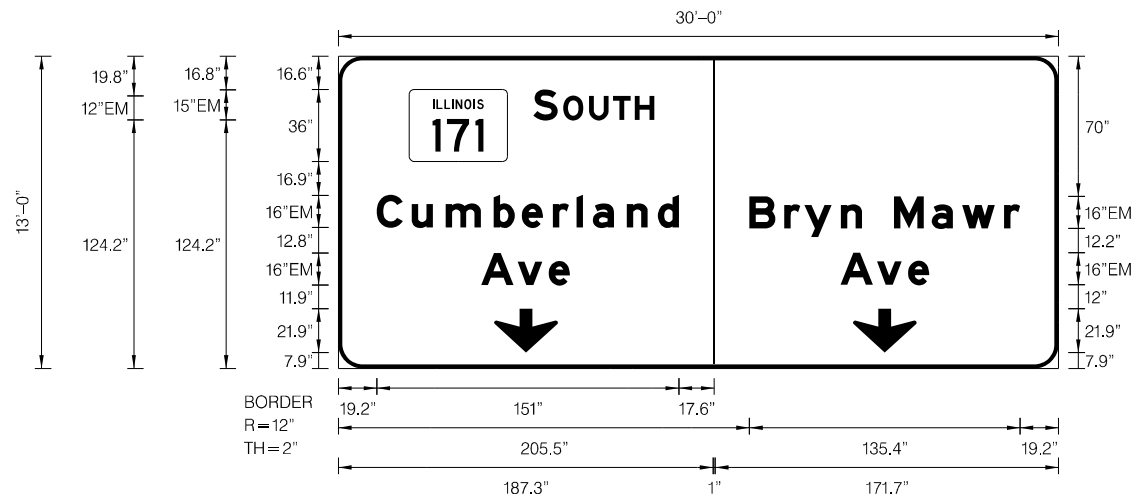
SCALE: 1" = NTS SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	177
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

SGN-TOLL-04

EBCD STA. 515 + 00
SIGN STRUCTURE 1S0161090R079.3 (SPAN OVER EBCD)

SIGN DETAIL
1:100



Panel Style: guide_fwy_advance_a.ssi
Dimensions are in inches.tenths

Panel Style: guide_fwy_advance_a.ssi
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

SIGN NUMBER	EB-TR-NW-68
WIDTH x HGHT.	30'-0" x 13'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: TYPE ZZ
	COLOR: Green /Green
LEGEND/BORDER	TYPE: TYPE ZZ
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M-1100A-3-42-20D	0	35.4	103.5	49.1	36
ARROW	0	77.9	7.9	31.9	21.9
ARROW	0	257.2	7.9	31.9	21.9

LETTER POSITIONS (X)

LETTER POSITIONS (X)														LENGTH	SERIESIZE
S	O	U	T	H											EM 2000
97.4	112.4	125.3	137.2	148.3											60.6
C	u	m	b	e	r	l	a	n	d						EM 2000
19.2	36.6	53.6	77.6	91.6	107.2	119	127.2	144.1	159.6						151
B	r	y	n		M	a	w	r							EM 2000
205.5	222.9	233	251.2	261.8	277.8	296.7	311.9	332.8							135.4
A	v	e													EM 2000
71.3	89.6	105.1													44.3
A	v	e													EM 2000
251	269.3	284.8													44.3

FILE NAME: ...\\026256-art-1-sign-panel-10.dgn



USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.00' / 1in.	CHECKED - LLS	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

SCALE: 1" = NTS SHEET 10 OF 12 SHEETS STA. TO STA.

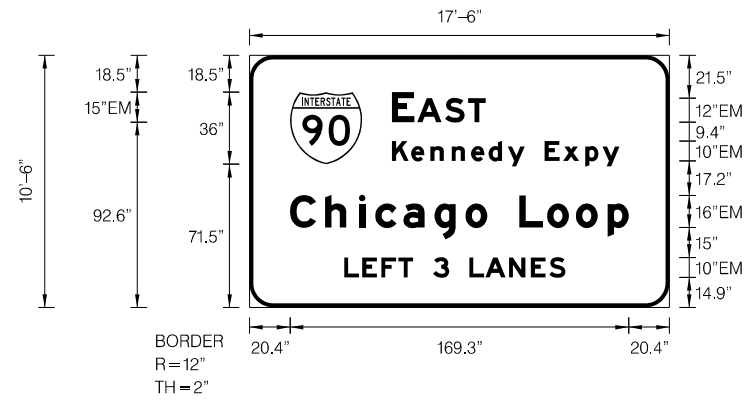
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	179
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

SGN-PD-10

EBCD STA. 518+00
SIGN STRUCTURE 1S0161090R079.4 (SPAN OVER I-90)

SIGN DETAIL

1:100



Panel Style: guide_exp_advance_b.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_exp_advance_b.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	EB-TR-NW-69
WIDTH x HGHT.	17'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: TYPE ZZ
	COLOR: Green
LEGEND/BORDER	TYPE: TYPE ZZ
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	20.4	71.5	36	36

LETTER POSITIONS (X)

LETTER POSITIONS (X)												LENGTH	SERIESIZE	
E	A	S	T									EM 2000		
71.4	83.9	97.8	109.3									46.8	15,12	
K	e	n	n	e	d	y		E	x	p	y	EM 2000		
71.4	80.9	90.6	101.2	110.9	119.7	129.2	137.7	147.7	156.9	168	176.6	113.7	107.5	
C	h	i	c	a	g	o		L	o	o	p	EM 2000		
20.4	37.8	54.8	62.9	77	92.5	108	118.9	134.9	148.8	163.2	179.1	169.3	1612	
L	E	F	T		3			L	A	N	E	S	EM 2000	
47.4	56.4	65.9	74.4	81.8	91.8	99.9	109.9	117.9	129.8	140.7	149.9	110.6	10	

FILE NAME: ...D:\2016\2016-ant-sign-panel-11.dgn



USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.00' / 1in.	CHECKED - LLS	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGN PANEL DETAILS

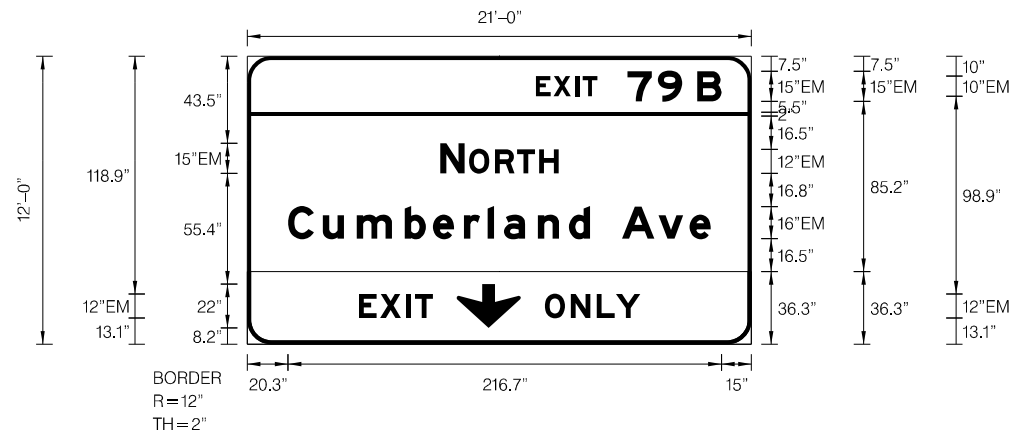
SCALE: 1" = NTS SHEET 11 OF 12 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	180
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

SGN-PD-11

EBCD STA. 518 + 00
SIGN STRUCTURE 1S016I090R079.4 (SPAN OVER I-90)

SIGN DETAIL
1:100



BORDER
R=12"
TH=2"
Panel Style: guide_fwy_advance_b.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_fwy_advance_b.ssi
Dimensions are in inches.tenths

Letter locations are paneledge to lower left corner

SIGN NUMBER	EB-TR-NW-70
WIDTH x HGHT.	21'-0" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: TYPE ZZ COLOR: Green
LEGEND/BORDER	TYPE: TYPE ZZ COLOR: BlackWhiteWhite

SYMBOL	ROT	X	Y	WID	HT
ARROWDOWN	0	104.7	8.2	32	22

LETTER POSITIONS (X)														LENGTH	SERIES/SIZE	
E	X	I	T	7	9	B										EM 2000
144.3	153.1	163.9	167.7	190.1	205.2	224.9										92.8
N	O	R	T	H												EM 2000
96.4	110.9	123.8	134.9	145.9												59.2
C	u	m	b	e	r	l	a	n	d	A	v	e				EM 2000
20.3	37.8	54.7	78.7	92.8	108.3	120.2	128.3	145.3	160.8	171.4	187.4	205.6	221.1			211.4
E	X	I	T													EM 2000
55.8	66.4	79.4	83.9													37
O	N	L	Y													EM 2000
148.8	161.7	174.8	184.4													47.8

FILE NAME = ...D:\2016\2016-ant-sign-panel12.dgn



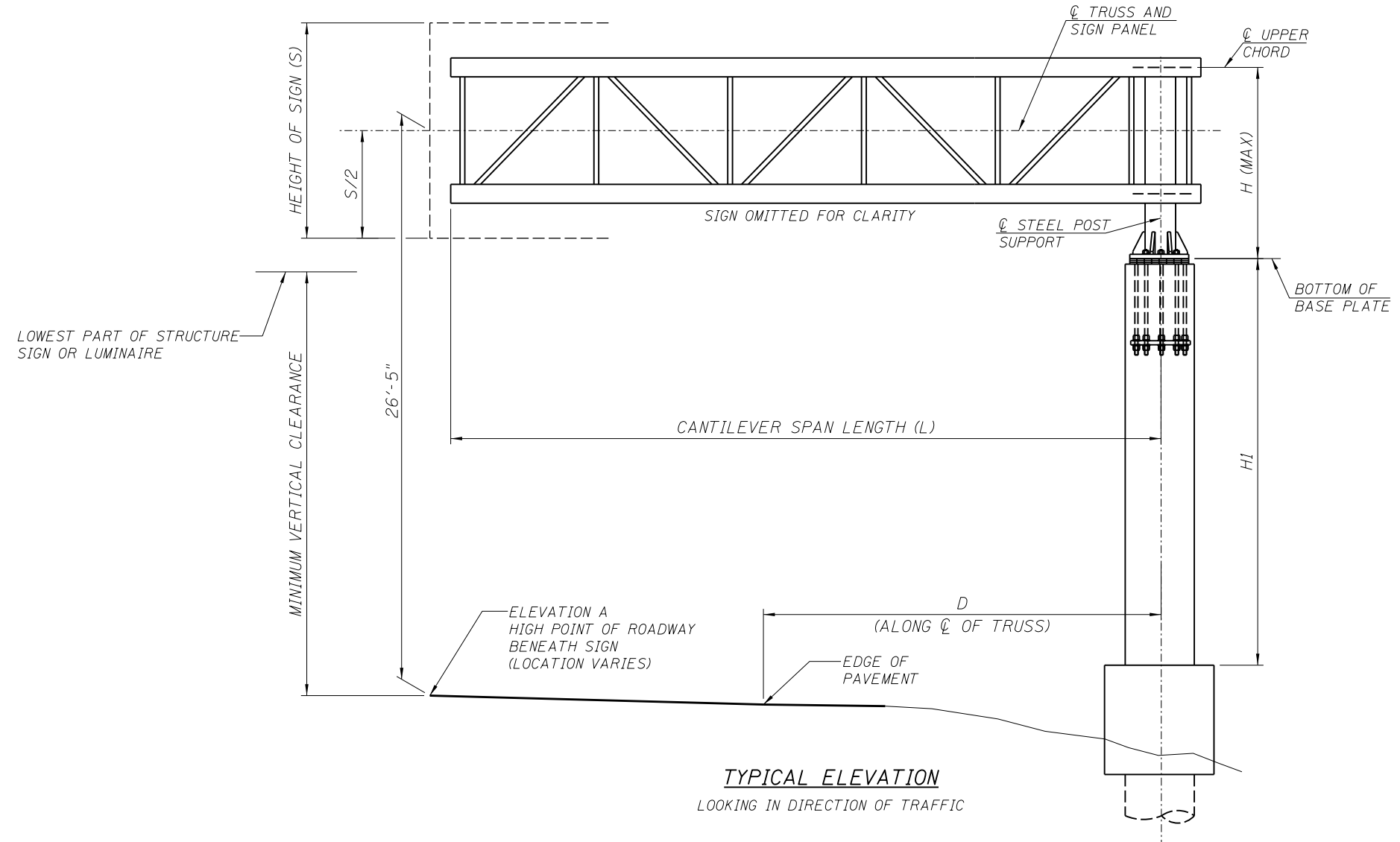
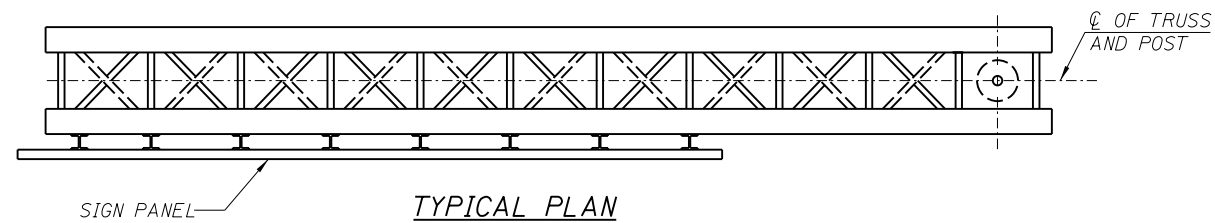
USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1/80' / 1/8"	CHECKED - LLS	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS			
SCALE: 1" = NTS	SHEET 12 OF 12 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	181
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

SGN-PD-12



TYPICAL ELEVATION
LOOKING IN DIRECTION OF TRAFFIC

SUMMARY

STRUCTURE NUMBER	STATION	DESIGN TRUSS TYPE	L	ELEV. A	MINIMUM VERTICAL CLEARANCE	D	H	HI	HEIGHT OF TALLEST SIGN	TOTAL SIGN AREA (SQ FT)	CLASS SI CONCRETE (CU YD)	CLASS DS CONCRETE (CU YD)	REINFORCEMENT BARS, EPOXY COATED (POUND)	PROTECTIVE COAT (SQ. YD.)
NW0.45C, EB	MP 78.6	40-D	40	631.57	17'-5"	18'-3 1/2"	8'-6"	15'	14'-0"	294	7.0	37.3	11,318	20.9
TOTAL														

TOTAL BILL OF MATERIAL

PAY ITEM	DESCRIPTION	UNIT	TOTAL
JS733B40	OVERHEAD SIGN STRUCTURE, CANTILEVER TYPE (STEEL)	FOOT	40
JS734B10	FOUNDATION FOR OVERHEAD SIGN STRUCTURE, CANTILEVER TYPE, CLASS SI CONC.	CU YD	9.0
JS734B10	FOUNDATION FOR OVERHEAD SIGN STRUCTURE, CANTILEVER TYPE, CLASS DS CONC.	CU YD	37.3
J1420027	PROTECTIVE COAT	SQ YD	27.9
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	11,698

NOTE:
WORK THIS SHEET WITH STANDARD F4

FILE NAME = C:\Users\boris.shkolnik\OneDrive\Documents\76166\0160056-016-01-04_Sign-0806-016-721.dgn
 6/3/2016
 boris.shkolnik



USER NAME = boris.shkolnik	DESIGNED - RD	REVISED -
PLOT SCALE = 1.00000 "/>		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURE PLANS
TOLLWAY

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	182
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
 $f^c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

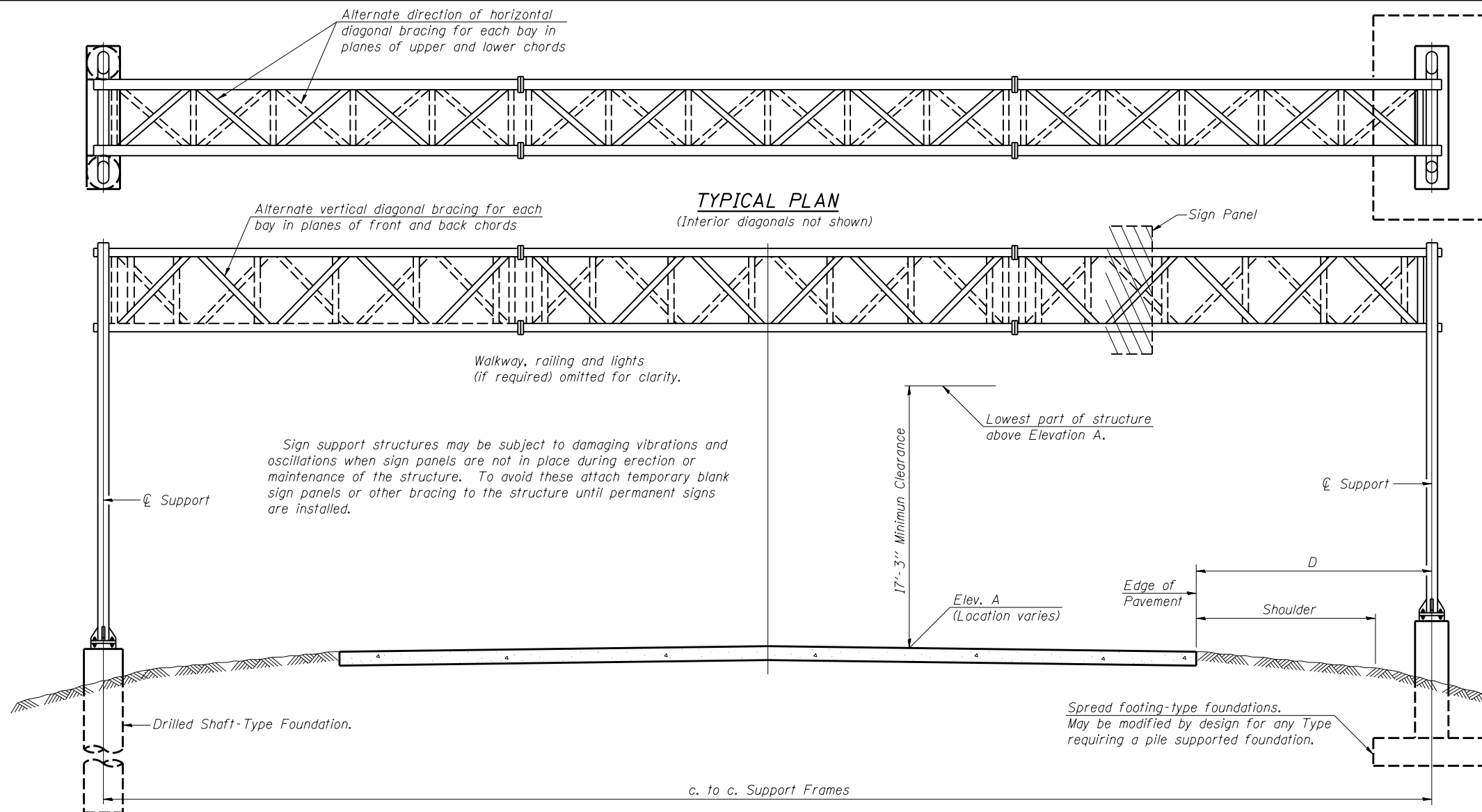
ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	119.00
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	
PROTECTIVE COAT	Sq. Yds.	12
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	23
REINFORCEMENT BARS (EPOXY COATED)	Lbs	2435



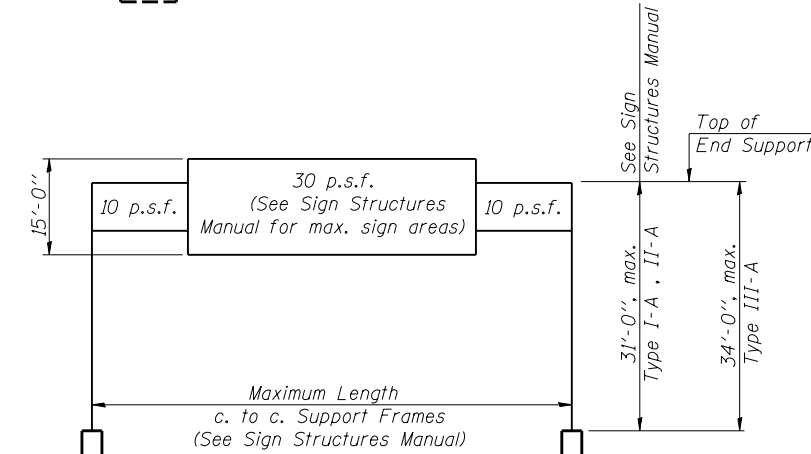
TYPICAL ELEVATION
(Looking at Face of Signs)**

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
I S 016 1090 R 079.3	515+00	I-A	47'-9"	634.94	18'-2 3/8"	13'-0"	403
I S 016 1090 R 079.4	518+00	I-A	71'-4"	636.73	0	12'-0"	388.75

**Looking upstation for structures with signs both sides.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

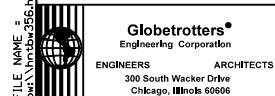


DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

OS-A-1

8-21-13



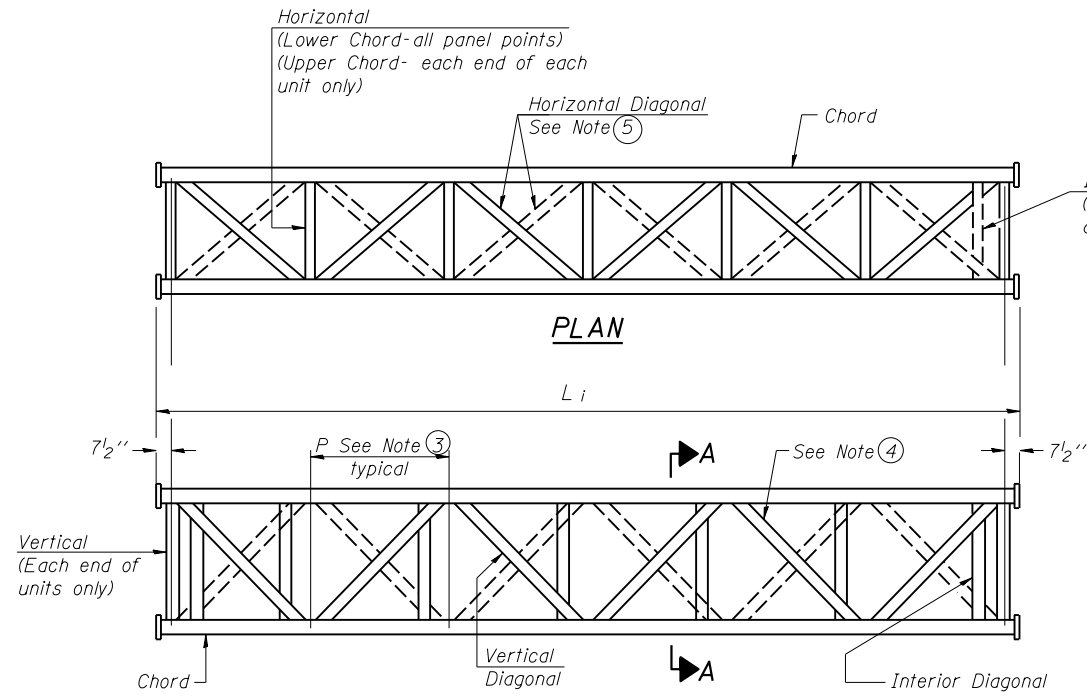
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	DRAWN - RJ	REVISED -
PLOT SCALE = 1:800000 1/4" = 1'	CHECKED - RD	REVISED -
PLOT DATE = 7/29/2016	DATE - 05/06/2016	REVISED -

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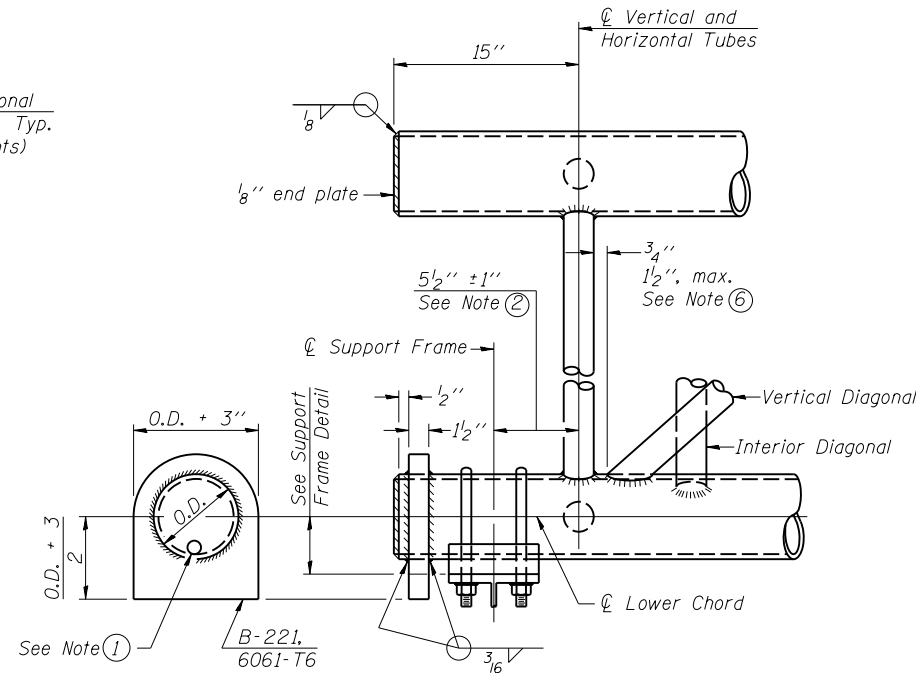
OVERHEAD SIGN STRUCTURES - GENERAL PLAN &
ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS

SCALE: SHEET OF SHEETS STA. TO STA.

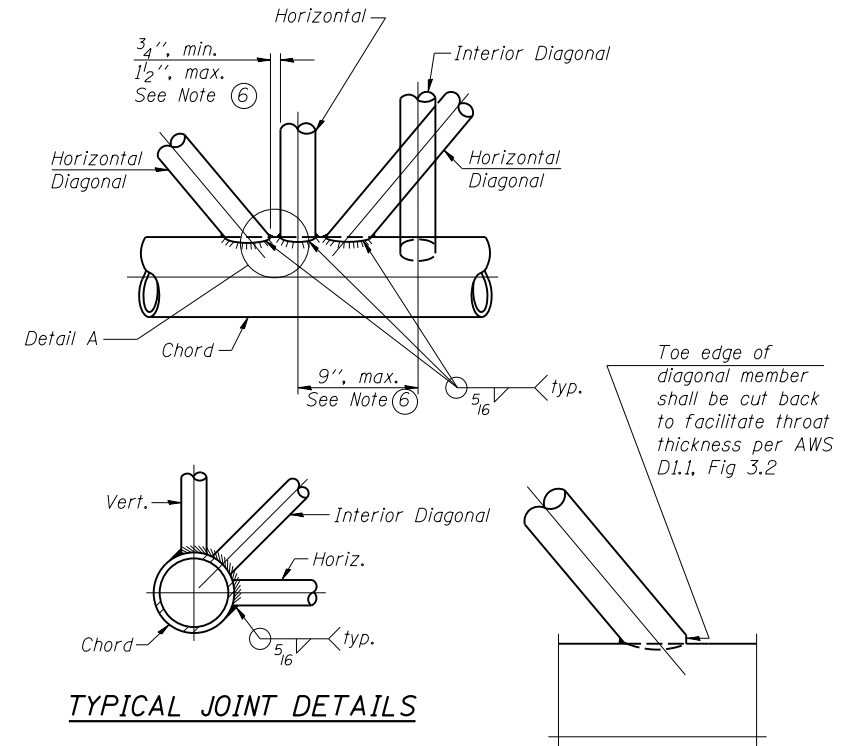
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	183
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				



**ELEVATION
TYPICAL INTERIOR UNIT**
Even number of panels/interior unit required.

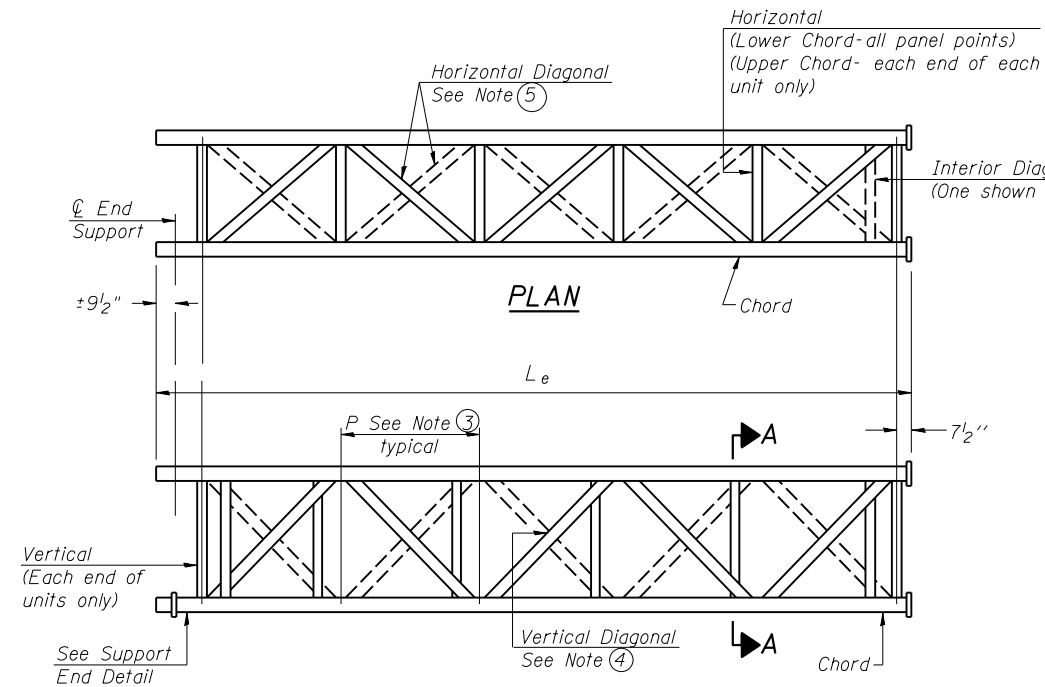


SUPPORT END DETAIL FOR EXTERIOR UNIT

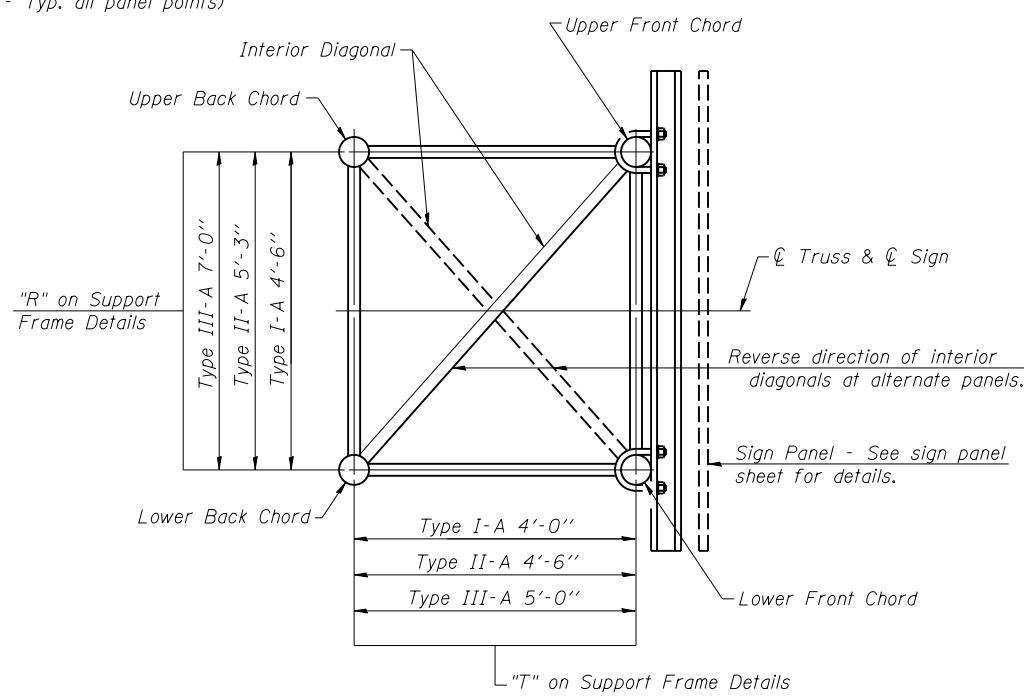


TYPICAL JOINT DETAILS

DETAIL A



**ELEVATION
TYPICAL EXTERIOR UNIT**
Even or odd number of panels/exterior units allowed.



SECTION A-A

- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" φ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② 5 1/2" end dimension may vary by ±1" to provide uniform panel spacing (P).
- ③ Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
- ④ Vertical Diagonals in front and back face shall alternate.
- ⑤ Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
- ⑥ All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a 3/4" minimum to 1 1/2" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

FILE NAME: I:\Projects\2016\1190_Cummins\Drawings\2016\1190_Cummins\Truss\60X56-ah-t.dwg
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 DATE: 05/06/2016
 DRAWN: R.J.
 CHECKED: R.D.
 DATE: 05/06/2016

05-A-2

6-1-12



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	DRAWN - RJ	REVISED -
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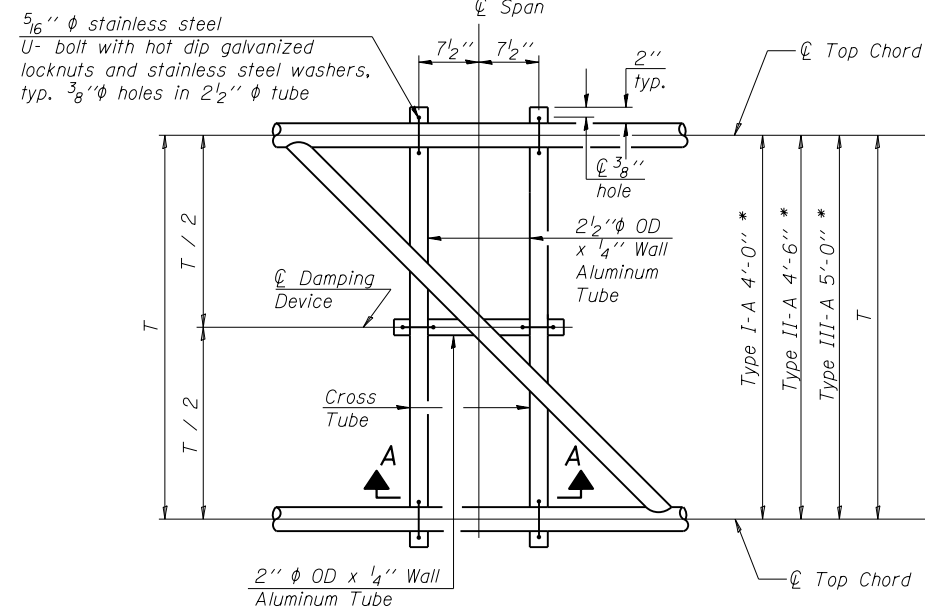
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I-A, II-A AND III-A**

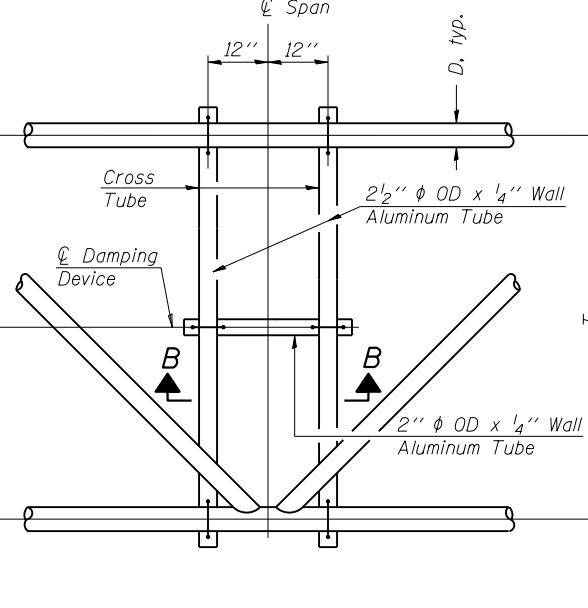
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190	1517R-1(13)	COOK	580	184
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

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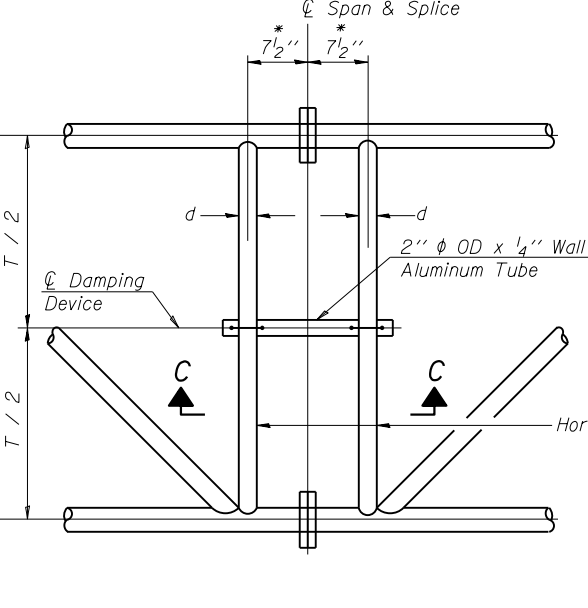
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 DRAWING: 05-A-D
 DATE: 7/29/2016
 DRAWN BY: RD
 CHECKED BY: RD
 DESIGNED BY: RD
 USER: kenneth.irette



PLAN DETAIL "A"
 ☐ Span between Panel Points



PLAN DETAIL "B"
 ☐ Span at Panel Point

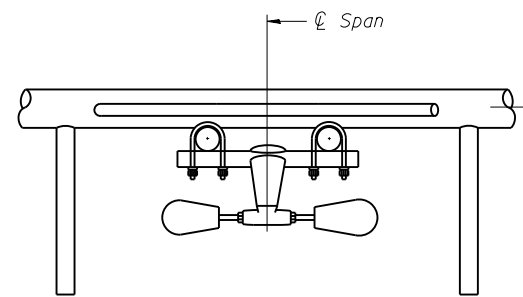


PLAN DETAIL "C"
 ☐ Span at ☐ Chord Splice

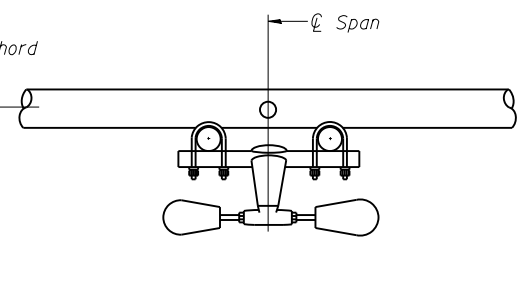
* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

NOTES

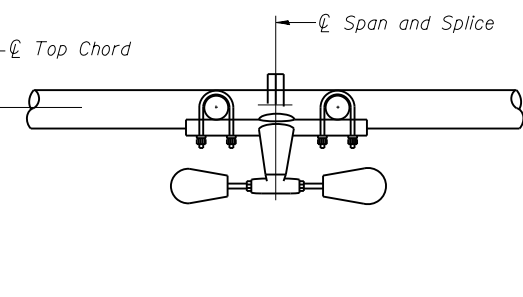
- Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure...
- Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



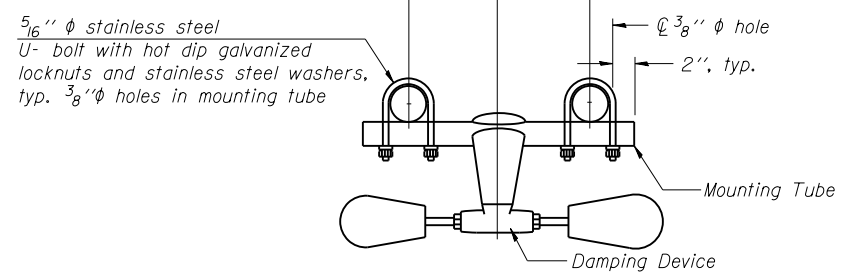
SECTION A-A



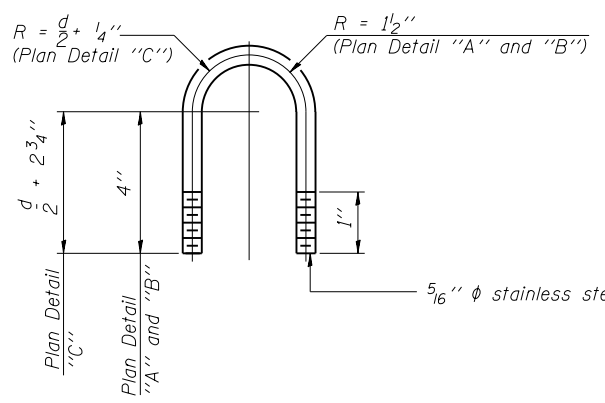
SECTION B-B



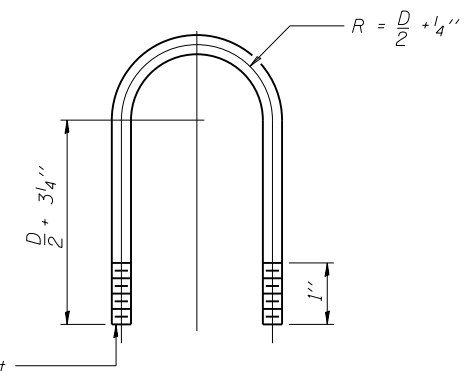
SECTION C-C



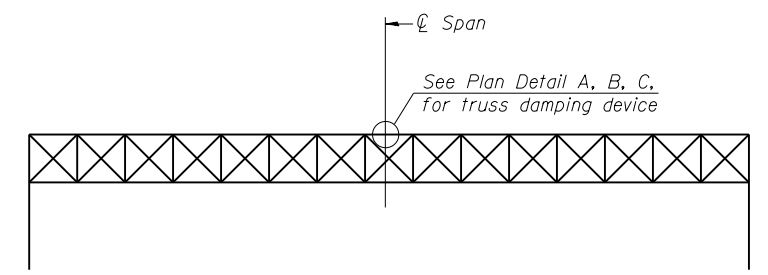
TRUSS DAMPING DEVICE CONNECTION DETAIL
 (Typical)



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
 (Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
 (Typical - Detail "A" and "B")



ELEVATION
 Aluminum Overhead Sign Truss

05-A-D

6-1-12

USER NAME = kenneth.irette	DESIGNED - RD	REVISED -
	DRAWN - RJ	REVISED -
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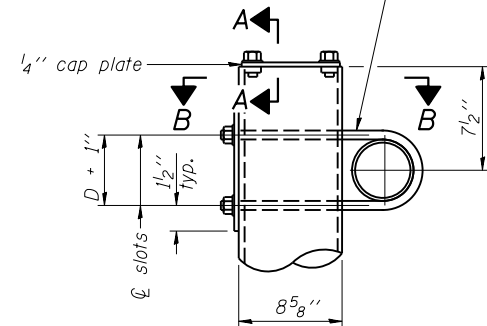
STATE OF ILLINOIS
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OVERHEAD SIGN STRUCTURE
DAMPING DEVICE

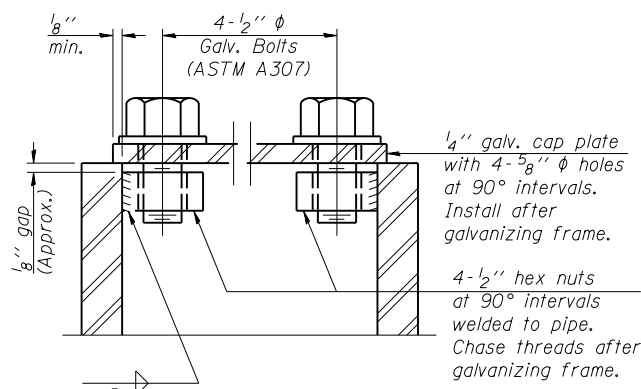
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	186
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

3/4" φ stainless steel U-bolt.
Provide two washers and two hexagon locknuts. (4)
1 3/16" x 2" slots on 8" φ pipe.
(4 slots required per pipe)

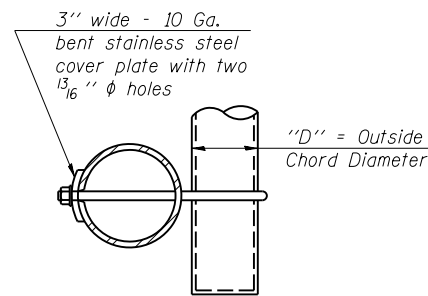


DETAIL A

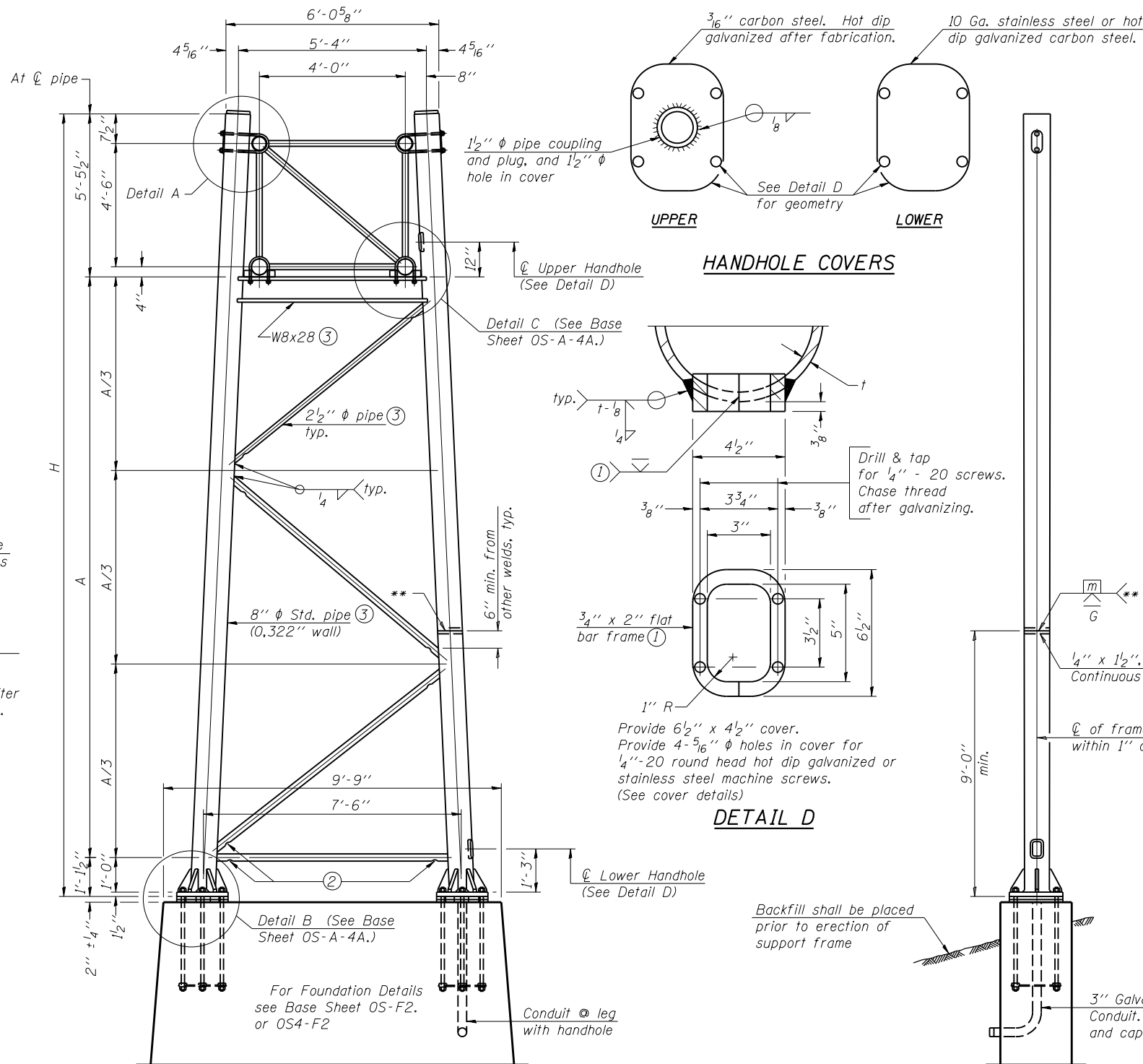


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.

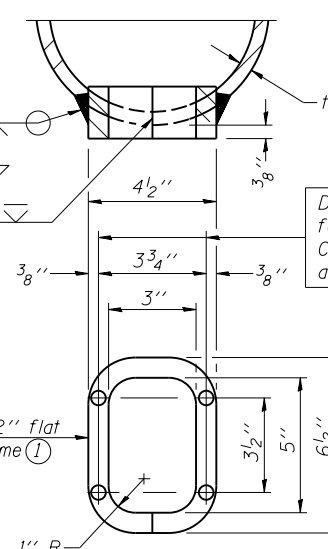


SECTION B-B



SIDE ELEVATION

HANDHOLE COVERS



DETAIL D

END ELEVATION

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

- ① In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 μin or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- ③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.

8" φ PIPE TRUSS SUPPORT FRAME
** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	Support		H ⑥	A
		Left	Right		
I S 016 1090 R 079.3	515+00	Left		24'-4 1/2"	17'-9 1/2"
I S 016 1090 R 079.3	515+00		Right	28'-0 1/2"	21'-5 1/2"
I S 016 1090 R 079.4	518+00	Left		23'-11 1/4"	17'-4 1/2"
I S 016 1090 R 079.4	518+00		Right	24'-2 1/8"	17'-8"

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 PROJECT: 1517R-1(13)
 DRAWING: OS-A-4
 DATE: 05/06/2016
 DESIGNED: RD
 DRAWN: RJ
 CHECKED: RD
 DATE: 05/06/2016

OS-A-4

6-1-12



USER NAME = kenneth.irette	DESIGNED - RD	REVISED -
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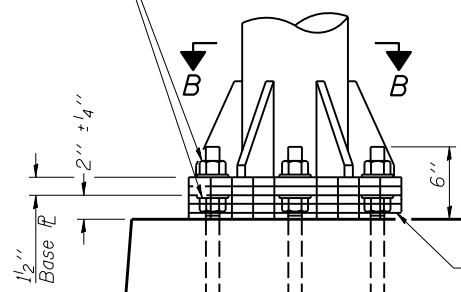
STATE OF ILLINOIS
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OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR TYPE I-A ALUMINUM TRUSS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	187
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

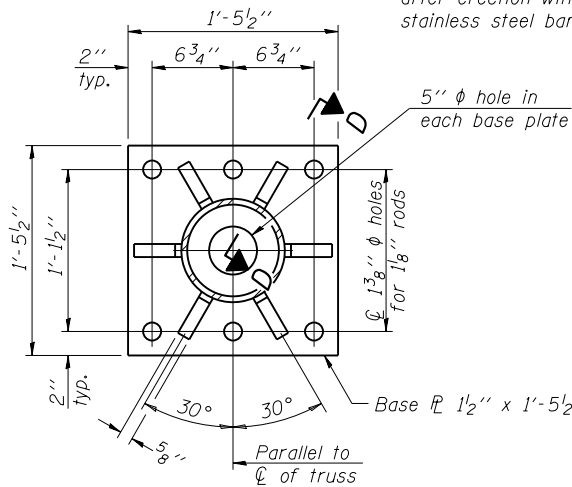
Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.



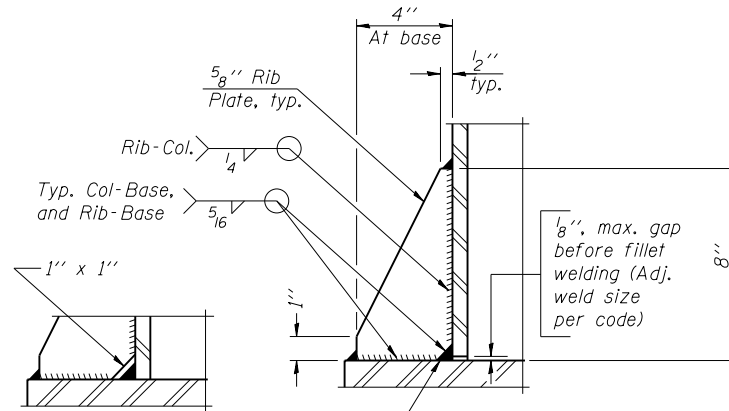
DETAIL B

Ribs shall be cut to fit slope of pipe.

Stainless Steel Standard Grade Wire Cloth, 3" wide, 1/4" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with 3/4" stainless steel banding.



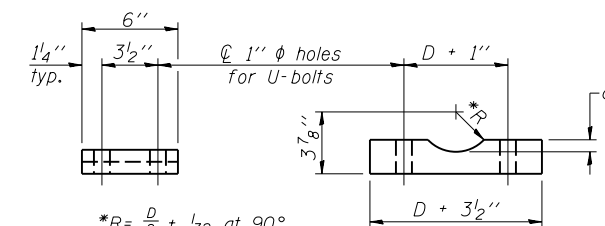
SECTION B-B



SECTION D-D

** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.

No snip req'd. at rib inside corner if placed before col. to base plate welding.



*R = $\frac{D}{2} + \frac{1}{32}$ at 90°
D = Outside Diameter of Chord.

SADDLE SHIM DETAIL

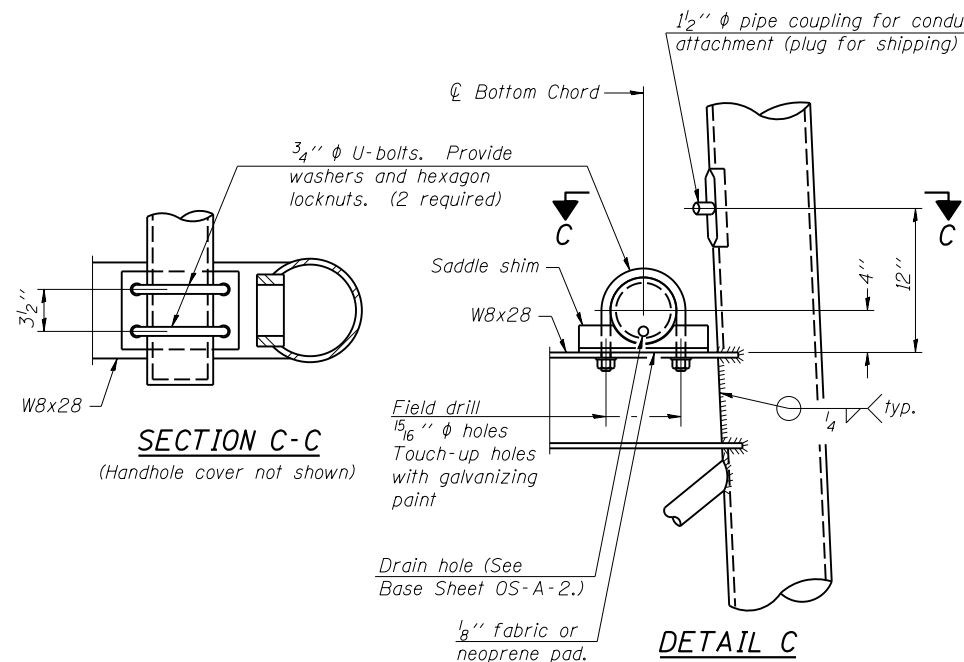
ASTM B26 Alloy 356-F

or

ASTM B209 Alloy 6061-T651

(4 required per sign truss)

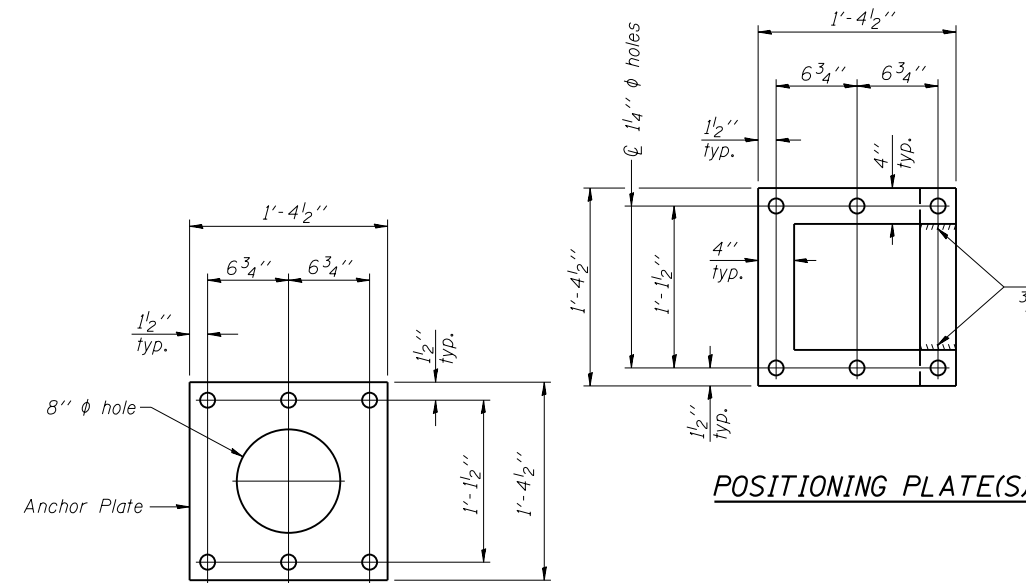
Truss Chord Nominal Dia.	a
5"	3/4"
5 1/2"	13/16"
6"	7/8"
6 1/2"	15/16"



SECTION C-C

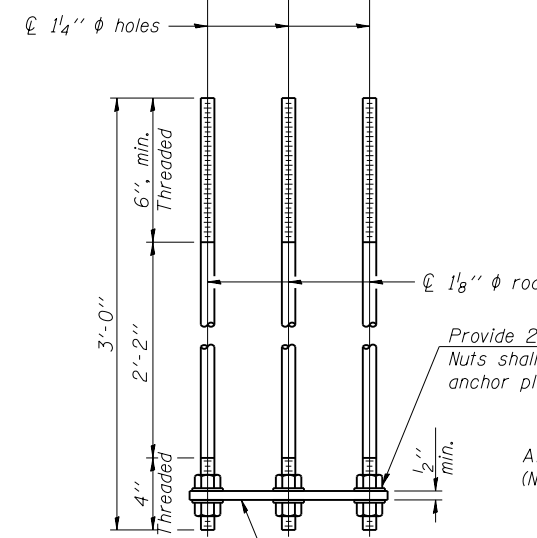
(Handhole cover not shown)

DETAIL C



POSITIONING PLATE(S)

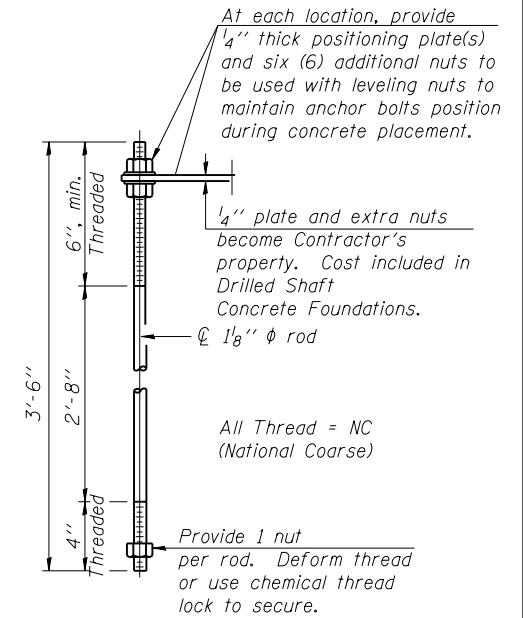
Optionally may use four (4) separate bars. Weld to maintain perpendicularity.



ANCHOR ROD DETAIL
Spread Footing Foundation

Provide 2 uncoated nuts per rod. Nuts shall be "snug tight" against anchor plate.

All Thread = NC (National Coarse)



ANCHOR ROD DETAIL
Drilled Shaft Foundation

At each location, provide 1/4" thick positioning plate(s) and six (6) additional nuts to be used with leveling nuts to maintain anchor bolts position during concrete placement.

1/4" plate and extra nuts become Contractor's property. Cost included in Drilled Shaft Concrete Foundations.

All Thread = NC (National Coarse)

Provide 1 nut per rod. Deform thread or use chemical thread lock to secure.

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

TYPE I-A TRUSS
8" Ø PIPE SUPPORT FRAME DETAILS

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OS-A-4A

6-1-12



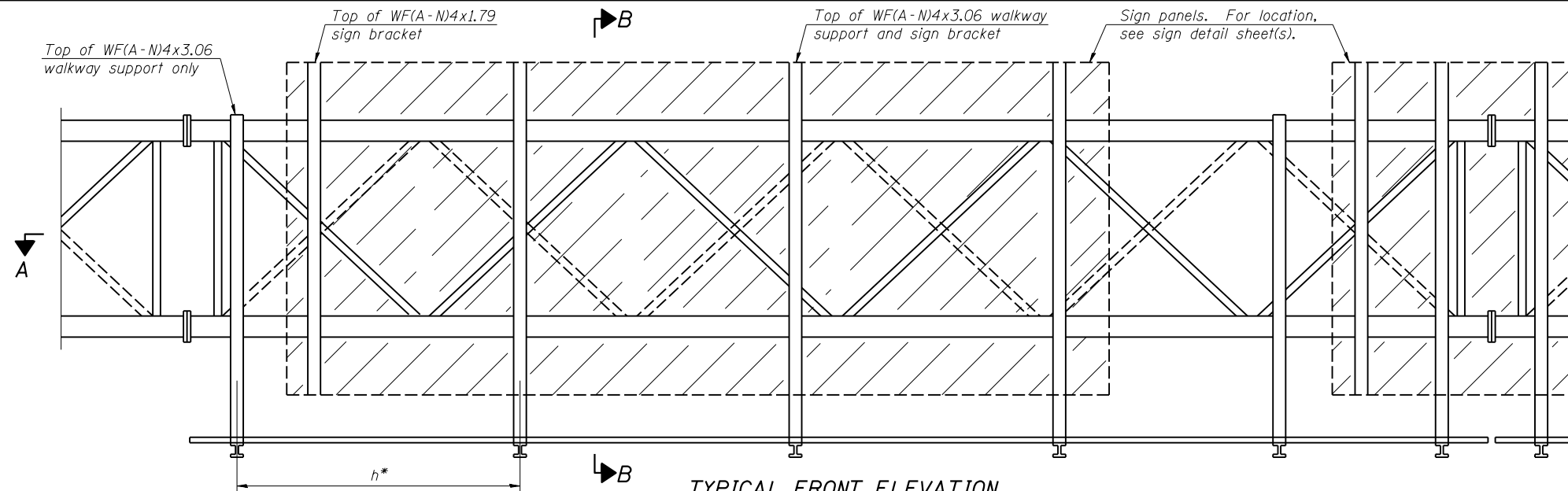
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PLOT DATE = 7/28/2016	CHECKED - RD	REVISED -
	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME DETAILS - ALUMINUM TRUSS

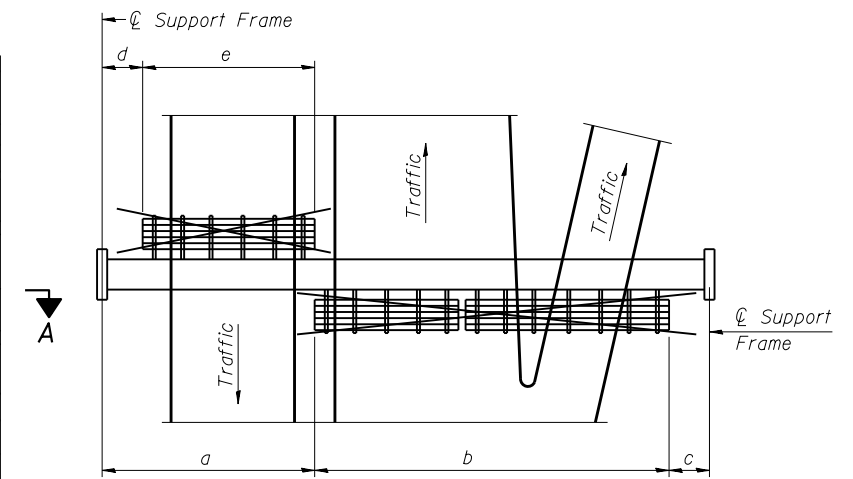
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	188
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				



TYPICAL FRONT ELEVATION

With lights and handrail omitted for clarity.
For Section B-B, see Base Sheet OS-A-10.



**PLAN
WALKWAY AND HANDRAIL SKETCH**
(Road plan beneath truss varies)

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

Notes:

* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to \bar{C} of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway grating to \bar{C} of nearest support bracket)

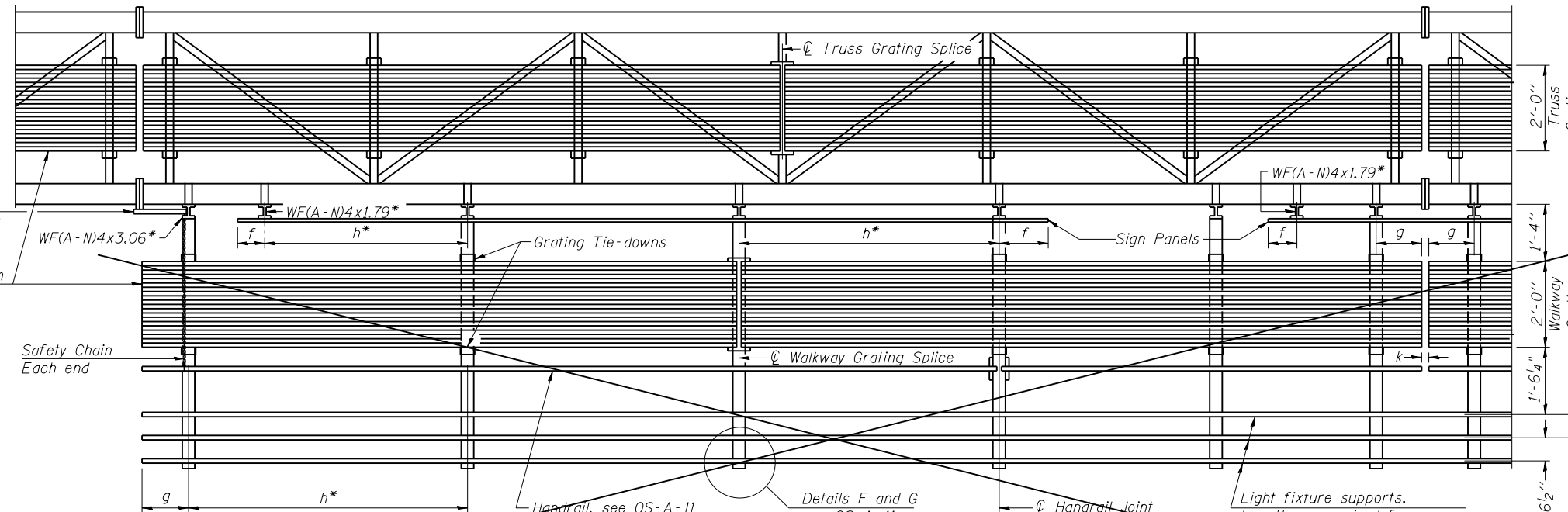
h = 6'-0" maximum (\bar{C} to \bar{C} sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)

k = 2" maximum gap between adjacent walkway grating sections and handrail ends

** If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet OS-A-11.

For Details T and W, Section B-B and Grating Splice Details see Base Sheet OS-A-10.

For Handrail Details see Base Sheet OS-A-11.



SECTION A-A

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Handrail joints, grating, and light support splices placed as needed.

Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
I S 016 1090 R 079.3	515+00	—	30'-0"	17'-9"	—	—	
I S 016 1090 R 079.4	518+00	19'-5 ³ / ₈ "	43'-3"	8'-7 ¹ / ₄ "	—	—	

Truss grating to facilitate inspection shall run full length (center to center of support frames) ± 12 " on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

Walkway and Truss Grating width dimensions are nominal and may vary $\pm 1/2$ " based on available standard widths.

FILE NAME: I:\Projects\1517R-1(13)\Drawings\OS-A-9.dwg; PLOT DATE: 7/29/2016; USER: kenneth.irette; PROJECT: 1517R-1(13); SHEET: 189

OS-A-9

6-1-12



USER NAME = kenneth.irette
DESIGNED - RD
DRAWN - RJ
PLOT SCALE = 1:8.0000 '1' / 1"
PLOT DATE = 7/29/2016

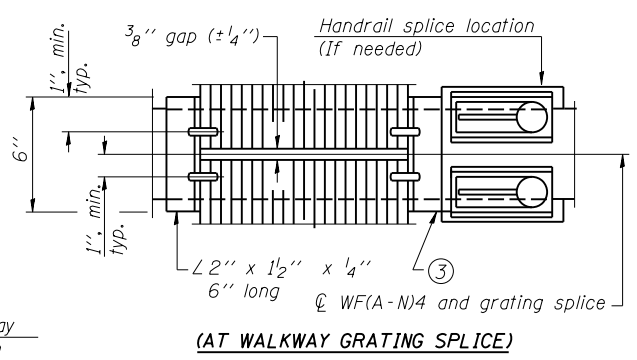
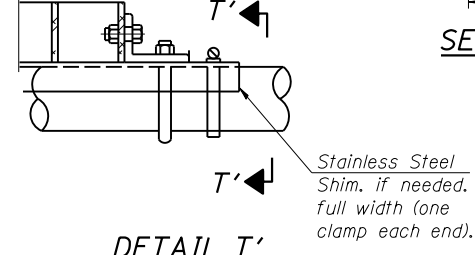
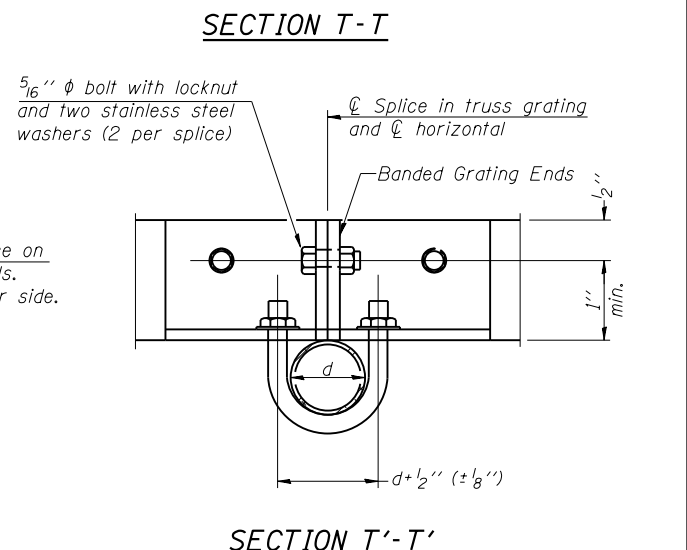
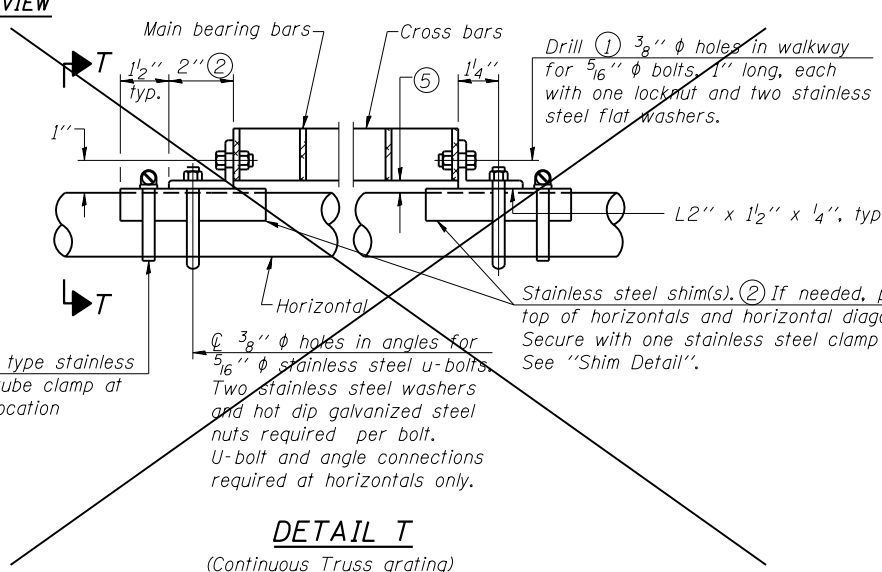
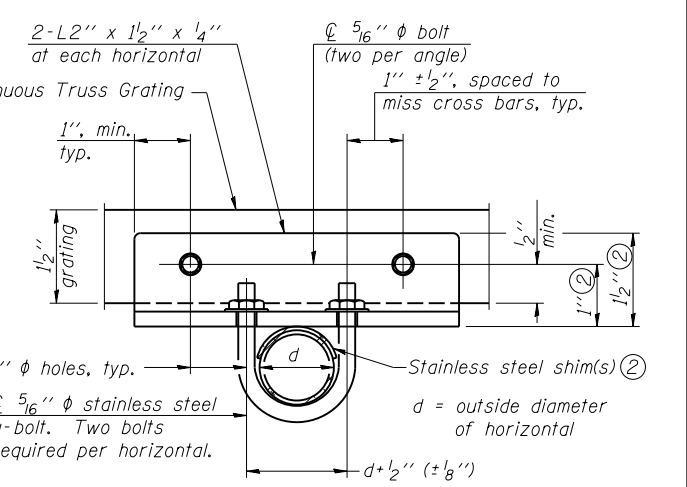
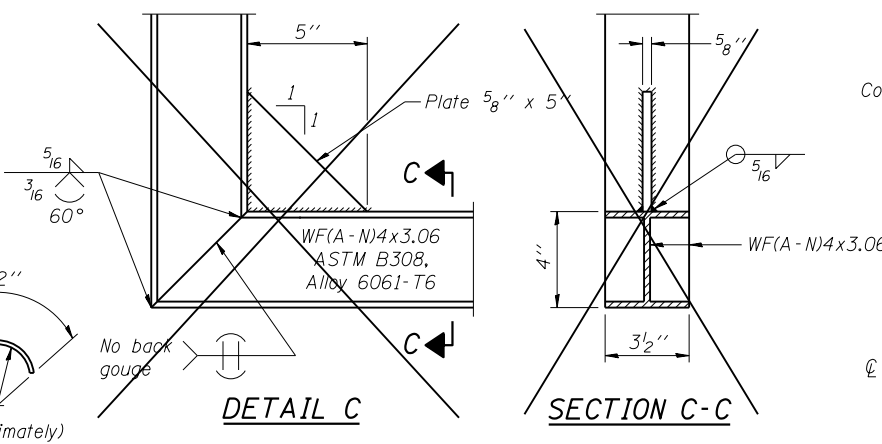
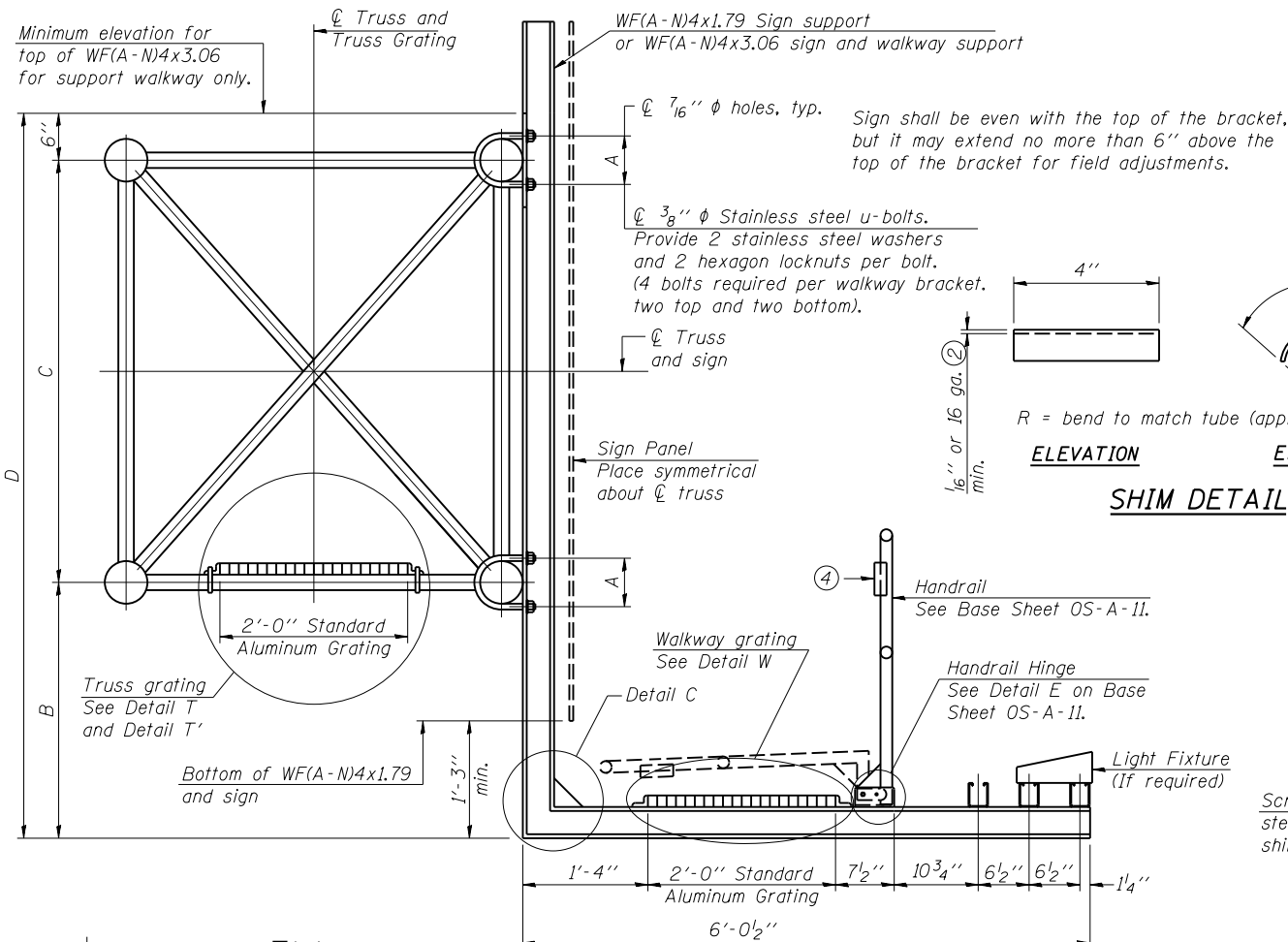
REVISOR
REVISION
CHECKED - RD
DATE - 05/06/2016

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	189
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				



SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

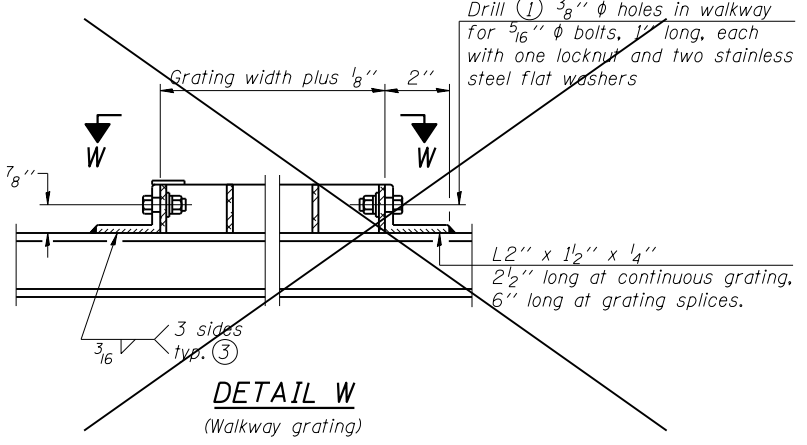
Main Bearing Bars shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.
 Cross bars shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "T" sections for main bearing bars shall meet the following requirements:
 Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.
 Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	⑥ B	C	⑥ D
1 S 016 I090 R 079.3	515+00	6 1/2"	9'-3"	4'-6"	14'-3"
1 S 016 I090 R 079.4	518+00	6 1/2"	8'-3"	4'-6"	13'-3"

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OS-A-11.)
- 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- Based on actual height of tallest sign given on OS-A-1.



OS-A-10

6-1-12



USER NAME = kenneth.irette	DESIGNED - RD	REVISED -
PLOT SCALE = 1:8.0000 '1' / in.	DRAWN - RJ	REVISED -
PLOT DATE = 7/29/2016	CHECKED - RD	REVISED -
	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES ALUMINUM WALKWAY DETAILS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	190
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	16	#9	F less 5"	—
#4 bar spiral (E) - see Side Elevation				

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

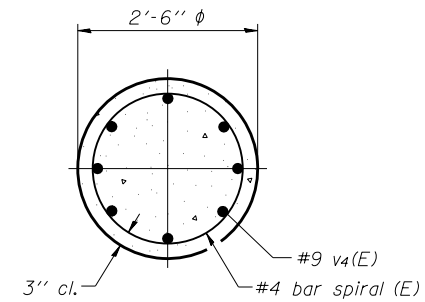
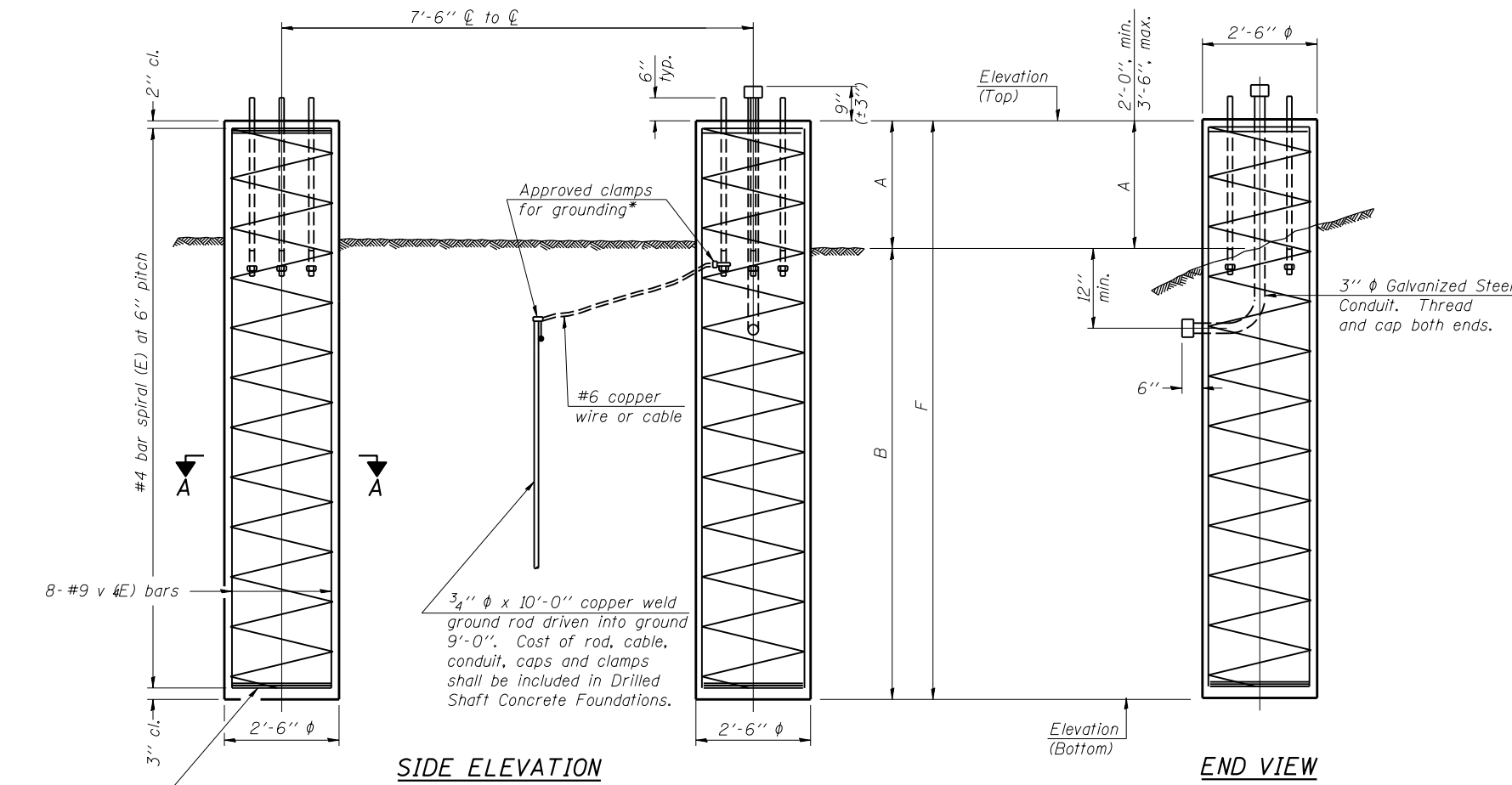
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

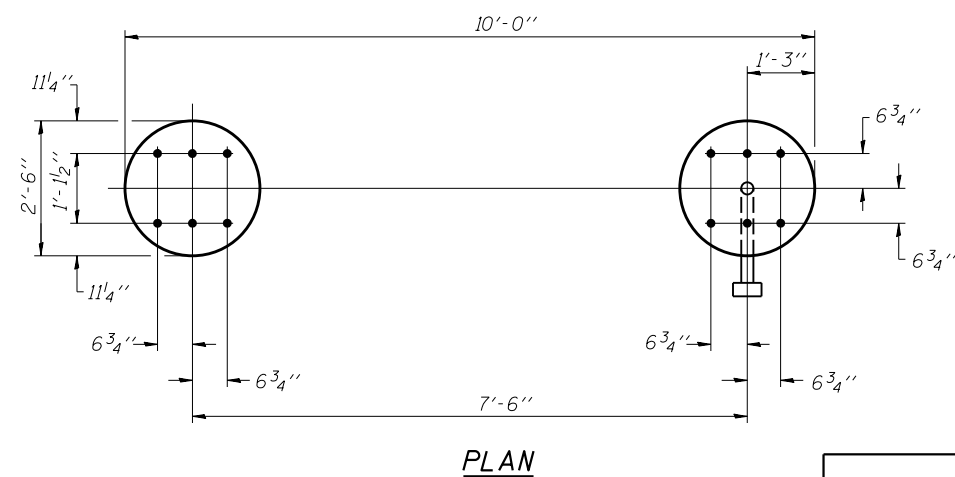
Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



SECTION A-A



PLAN

For anchor rod size and placement, see Support Frame Detail Sheet.

* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

DETAILS FOR 8" Ø SUPPORT FRAME TYPE I-A TRUSS

Structure Number	Station	Left Foundation			Right Foundation			Class DS Concrete (Cu. Yds.)				
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top		Elevation Bottom	A	B	F
I S 016 1090 R 079.3	515+00						637.11	615.61	3'-6"	18'-0"	21'-6"	3.91

OS4-F2

8-21-13

Globetrotters
Engineering Corporation
ARCHITECTS
300 South Wacker Drive
Chicago, Illinois 60606

USER NAME = kenneth.lirette	DESIGNED - RD	REVISED -
PLOT SCALE = 1" = 10'	DRAWN - RJ	REVISED -
PLOT DATE = 7/28/2016	CHECKED - RD	REVISED -
	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
DRILLED SHAFT DETAILS**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	191
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:

f_{field} Units
 $f' = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

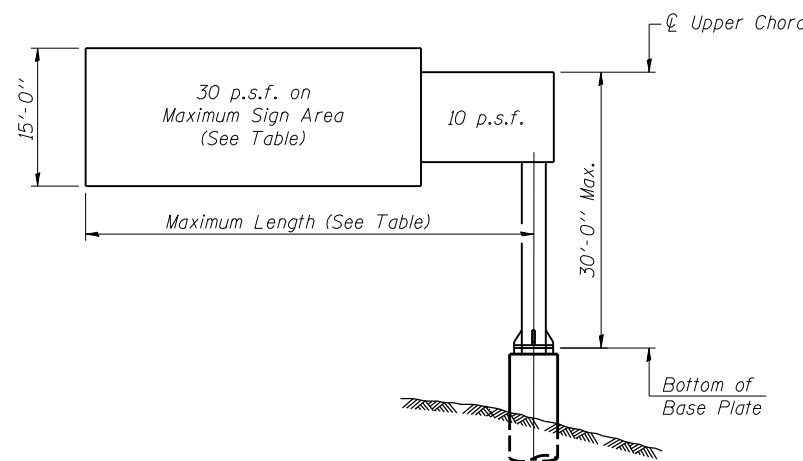
REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE I-C-A	Foot	
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II-C-A	Foot	
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	Foot	35
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	
REINFORCEMENT BARS (EPOXY COATED)	Lbs	1204
PROTECTIVE COAT	Sq Yds	3
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	13

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	D _s	Total Sign Area
I C 016 I190 L 000.5	106+25	III-C-A	35	631.57	18'-3 1/2"	11'-6"	276

Truss Type	Maximum Sign Area	Maximum Length
I-C-A	170 Sq. Ft.	25 Ft.
II-C-A	340 Sq. Ft.	30 Ft.
III-C-A	400 Sq. Ft.	40 Ft.



DESIGN WIND LOADING DIAGRAM

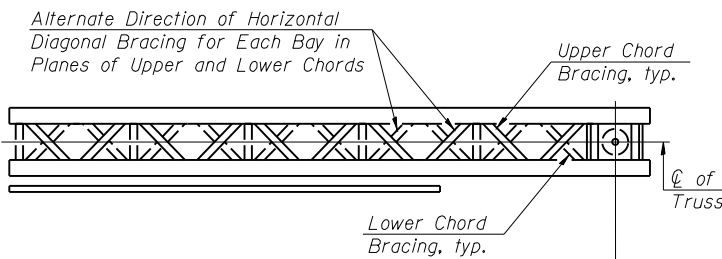
Parameters shown are basis for I.D.O.T. Standards. Installations not within dimensional limits shown require special analysis for all components.

Note:

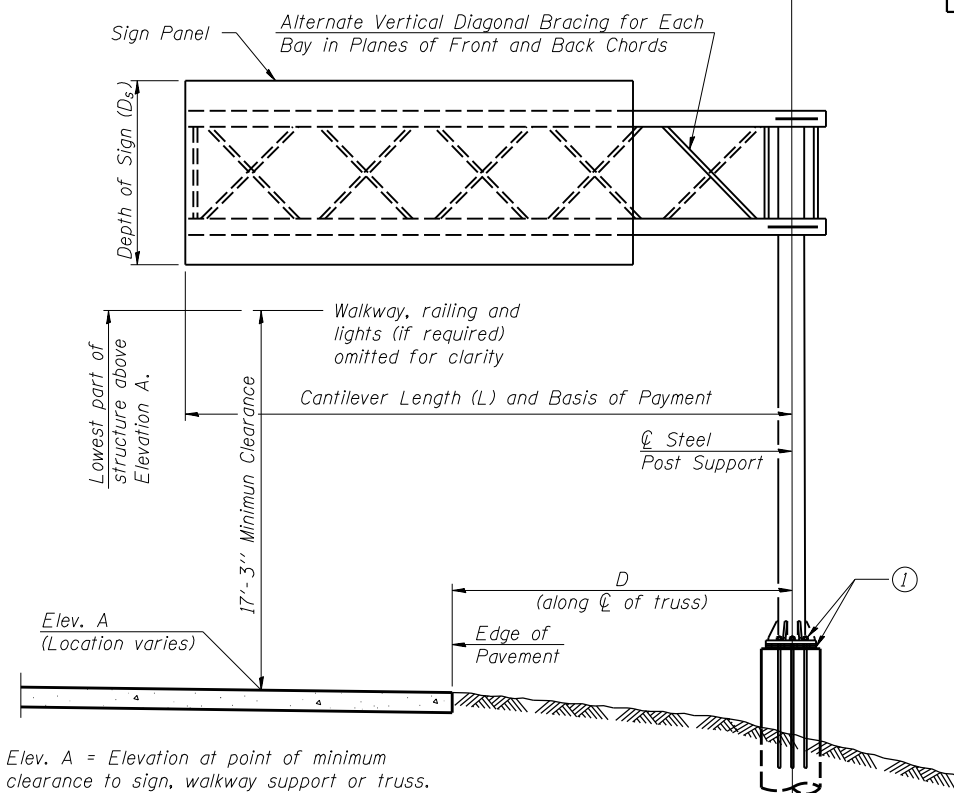
Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection of the trusses.

- ① After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.



TYPICAL PLAN
(Walkway not shown)



Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

TYPICAL ELEVATION

Looking in Direction of Traffic

Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.

FILE NAME = ... OSC-A-1.dgn

OSC-A-1

8-21-13

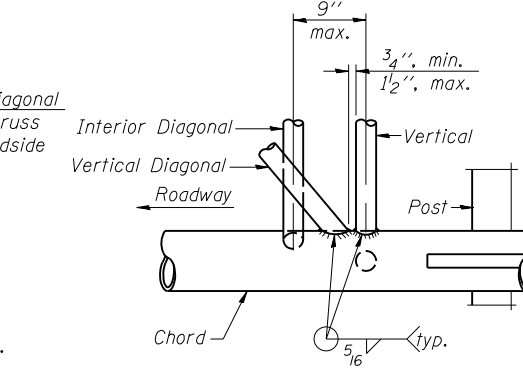
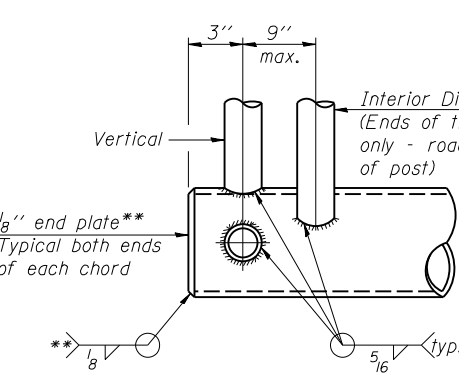
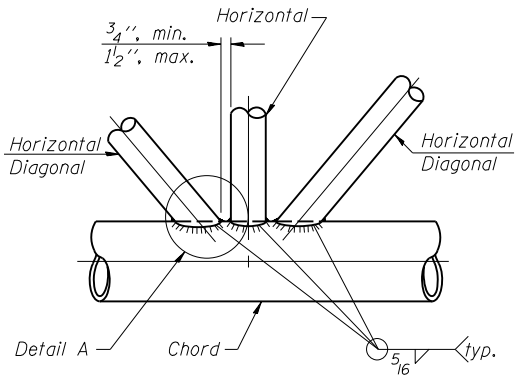
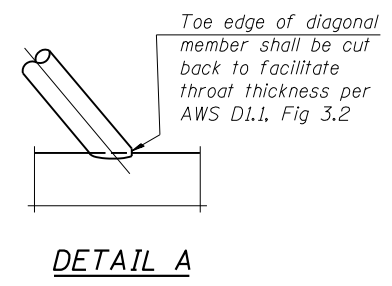
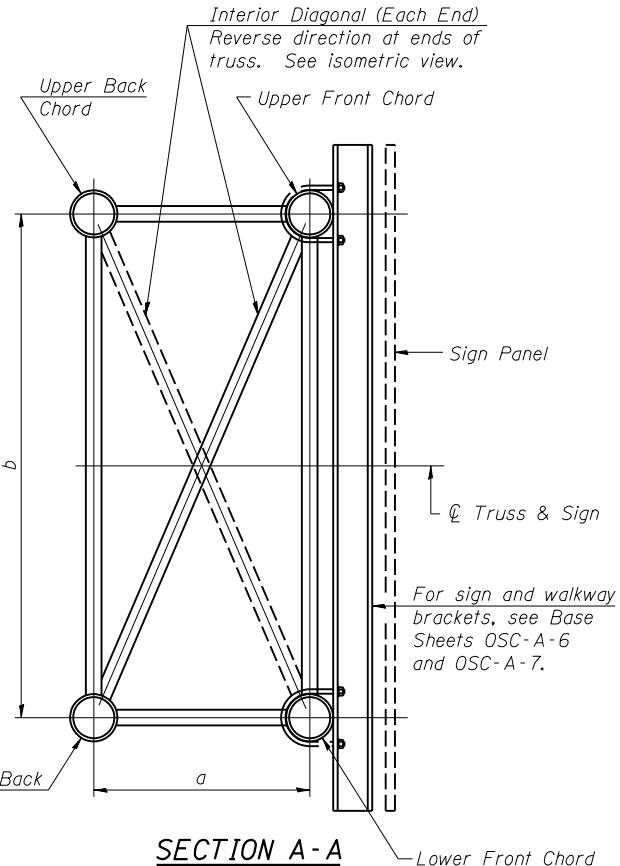
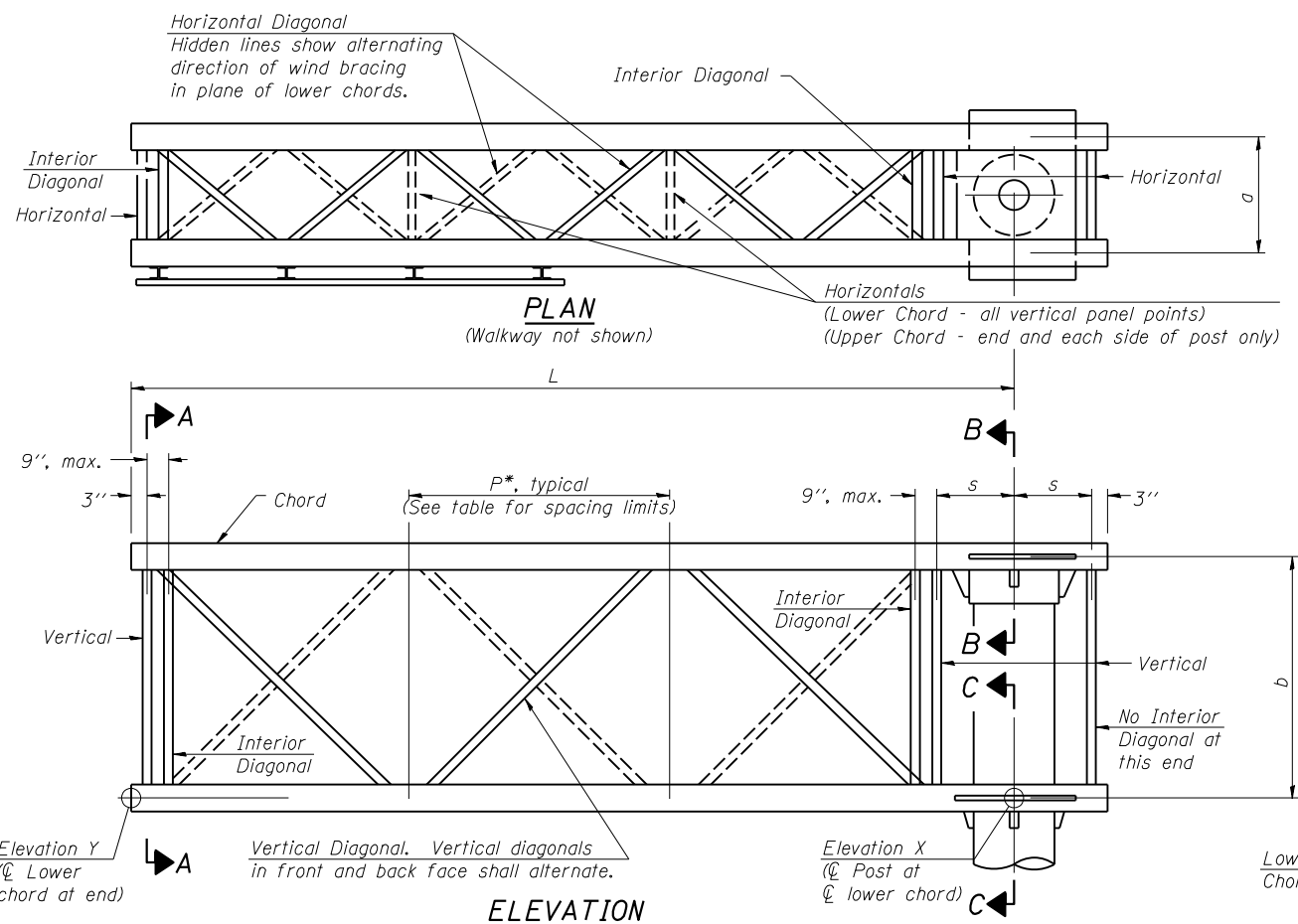
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	DRAWN - RJ	REVISED -
PLOT SCALE = 1.00000 "/ in.	CHECKED - RD	REVISED -
PLOT DATE = 4/6/2016	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CANTILEVER SIGN STRUCTURES - GENERAL PLAN & ELEVATION
ALUMINUM TRUSS & STEEL POST**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	192
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				



Note:
There are twice as many horizontal diagonals as there are vertical diagonals.

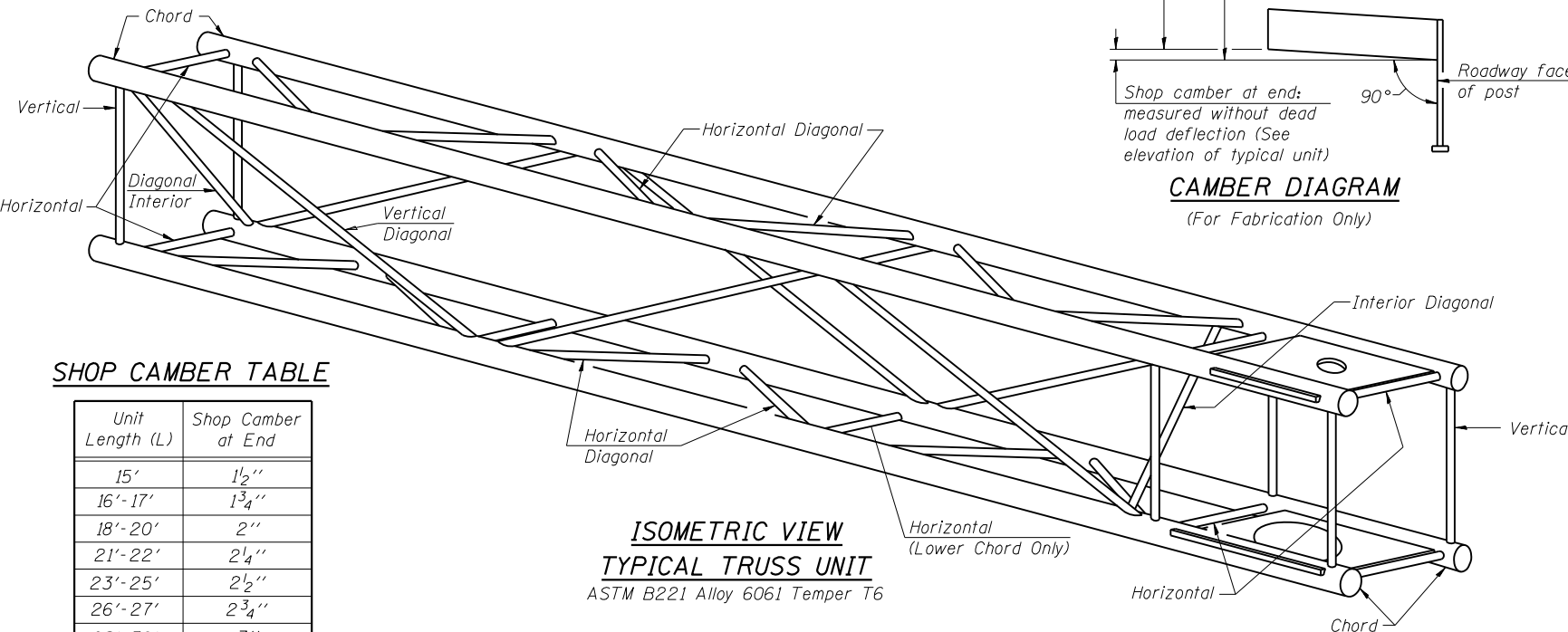
For Section B-B and Section C-C, see Base Sheet OSC-A-3.

TRUSS UNIT TABLE

Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals	
					O.D.	Wall	O.D.	Wall
I-C-A	24"	54"	16"	36" min. to 48" max.	5"	5/16"	2 1/2"	5/16"
II-C-A	36"	66"	21"	42" min. to 54" max.	6 1/2"	5/16"	3 1/4"	5/16"
III-C-A (35' Max.)	36"	84"	21"	48" min. to 66" max.	7"	3/8"	3 1/2"	3/8"
III-C-A (>35' to 40')	36"	84"	21"	48" min. to 66" max.	8"	3/8"	3 1/2"	3/8"

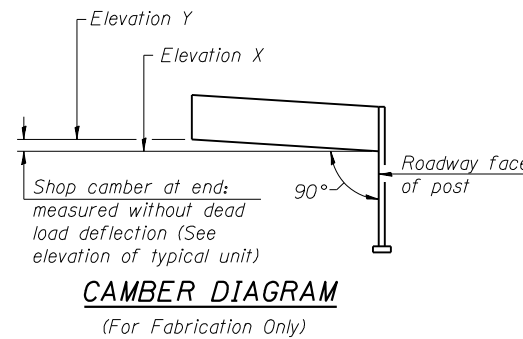
$$*P = \frac{L - s - 3''}{\# \text{ Panels}}$$

Structure Number	Station	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
I C 016 I190 L 000.5	106+25	III-C-A	35	6	5'-6"



SHOP CAMBER TABLE

Unit Length (L)	Shop Camber at End
15'	1 1/2"
16'-17'	1 3/4"
18'-20'	2"
21'-22'	2 1/4"
23'-25'	2 1/2"
26'-27'	2 3/4"
28'-30'	3"
31'-32'	3 1/4"
33'-35'	3 1/2"
36'-37'	4"
38'-40'	4 1/2"



OSC-A-2

6-1-12

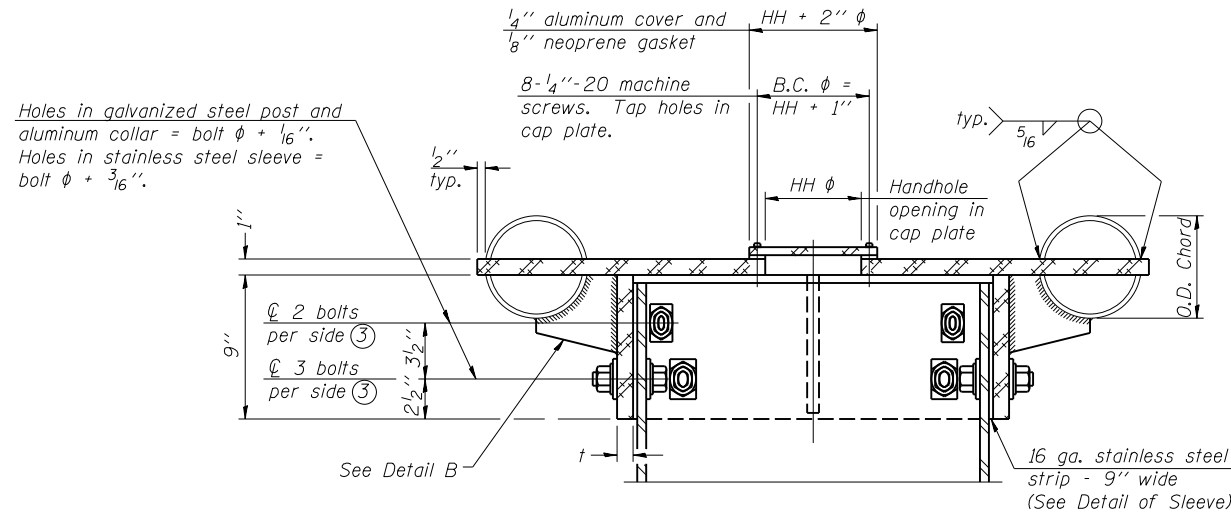


USER NAME = boris.shkolnik	DESIGNED - RD	REVISED -
PLOT SCALE = 1.00000 / in.	DRAWN - RJ	REVISED -
PLOT DATE = 4/5/2016	CHECKED - RD	REVISED -
	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
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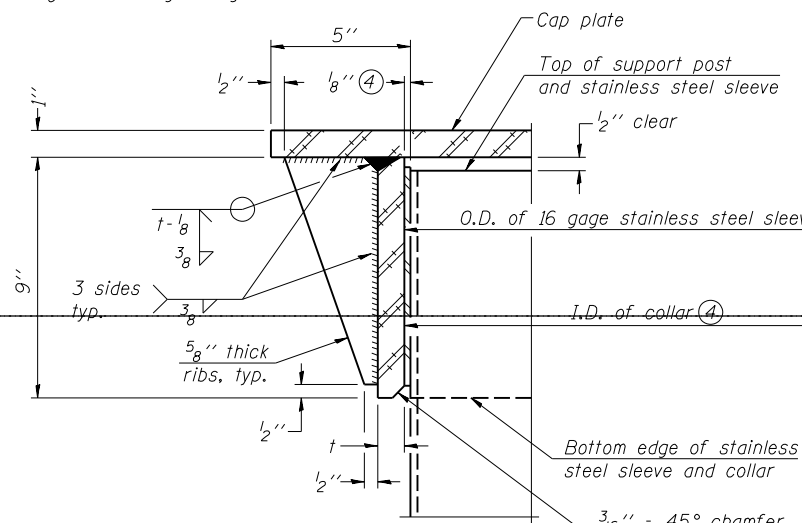
CANTILEVER SIGN STRUCTURES - TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	193
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

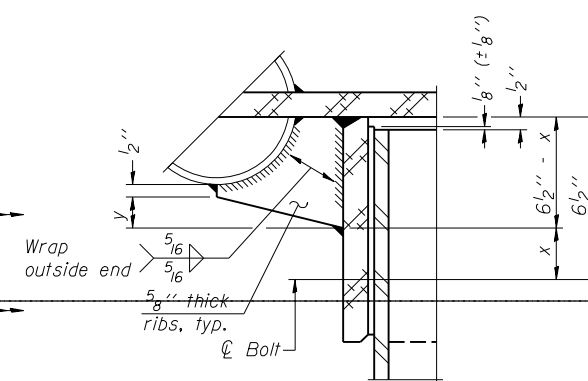


④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus 1/8" (±1/16"). Maximum gap between post and collar at any location equals 1/8" before tightening bolts.

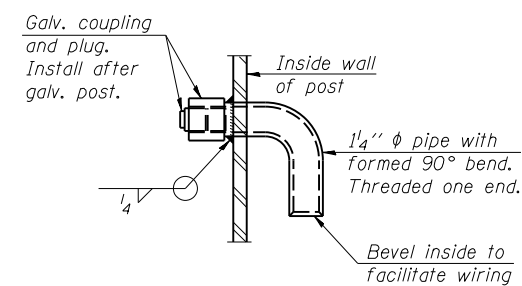
SECTION B-B
Bolts, washers (including contoured washers), and locknuts shall be stainless steel.



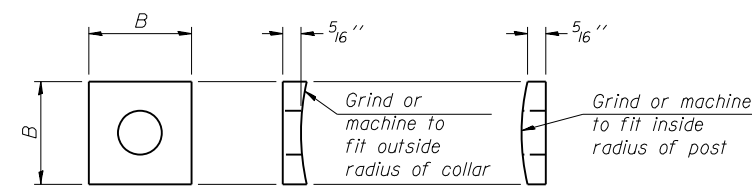
DETAIL A
(Two locations)



DETAIL B
Two locations
(For details not shown, see Detail C)



DETAIL D

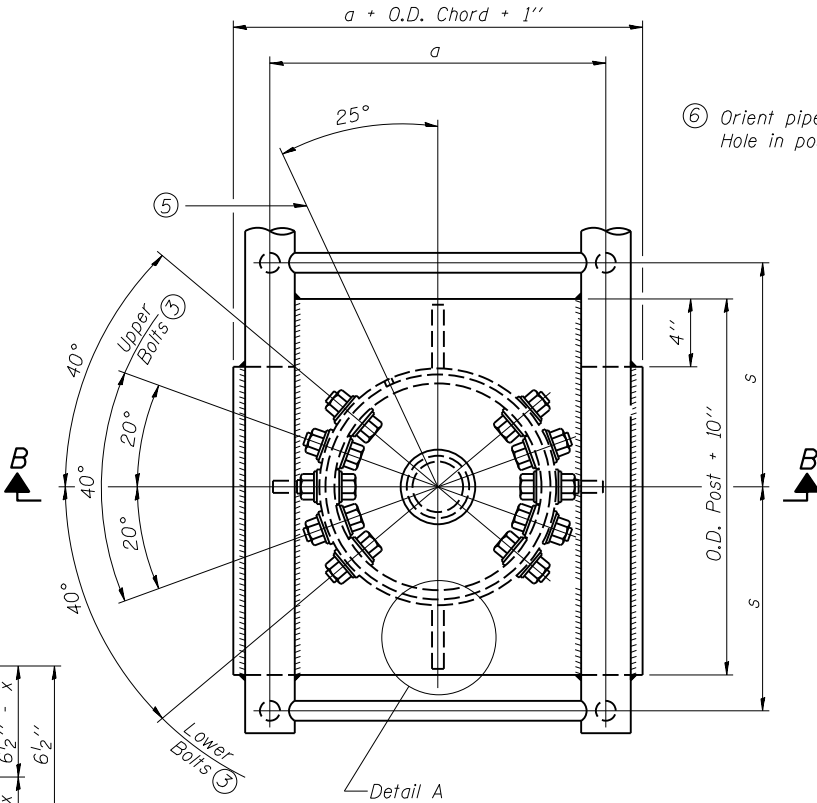


CONTOURED WASHERS

Bolt Size	Contoured Washers	
	Hole Dia.	B
7/8"	1"	2 1/2"
1"	1 1/8"	3"
1 1/4"	1 3/8"	3 1/4"

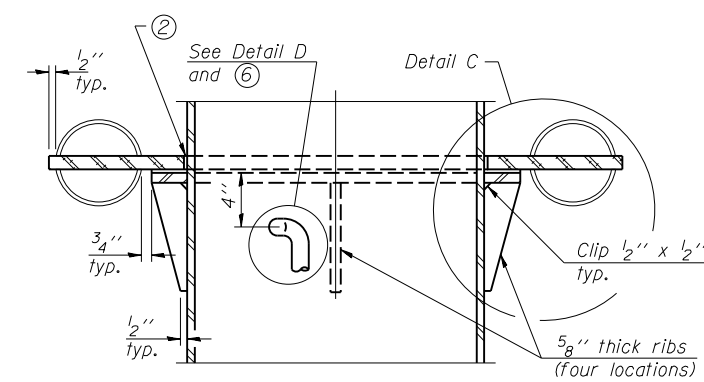
DETAIL OF STAINLESS STEEL SLEEVE

Weld to post after galvanizing. (Prepare post surface to insure tight, uniform fit and allow welding.) Welds to be 1/2" long at 6" cts. along top edge and at 1/4" opening.

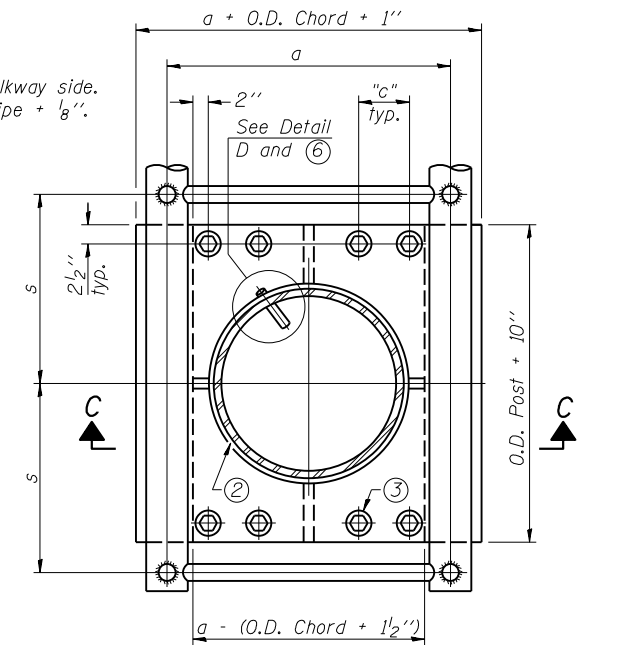


PLAN VIEW - TOP OF COLUMN

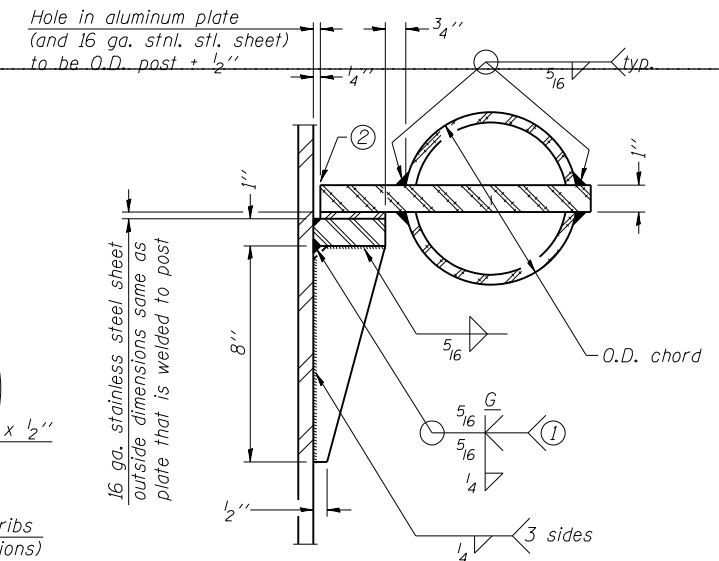
⑤ Optional full penetration weld in collar. (Two locations maximum... (180° apart)... X-ray or UT 100%)



SECTION C-C



SECTION THRU POST ABOVE LOWER CHORDS



DETAIL C

Truss Type	Post Size	Upper & Lower Connection Bolt Diameter ③	Lower Juncture Bolt Spacing Dimension "c" ③	Opening in Cap Plate "HH"	Collar Thickness (t)	Side Ribs	
						x	y
I-C-A	16" φ (83#/')	7/8"	3 1/4"	8"	5/8"	1 3/4"	2 1/4"
II-C-A	24" φ (125#/')	1"	3 1/2"	12"	7/8"	2"	1 1/4"
III-C-A (35' max.)	24" φ (125#/')	1 1/4"	3 1/2"	12"	7/8"	2"	1"
III-C-A (>35' to 40')	24" φ (171#/')	1 1/4"	3 1/2"	12"	7/8"	2"	1"

- ① Grind top if required to fully seat aluminum plate and stainless steel sheet.
- ② After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure Cantilever.
- ③ Upper and lower connection bolts in collar and bolts at lower chord connection shall be high strength with matching locknuts. Connection bolts shall have 2 stainless steel flat washers each.

OSC-A-3

6-1-12



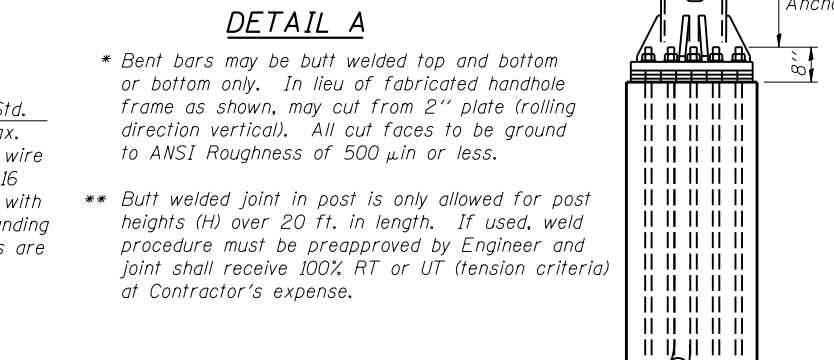
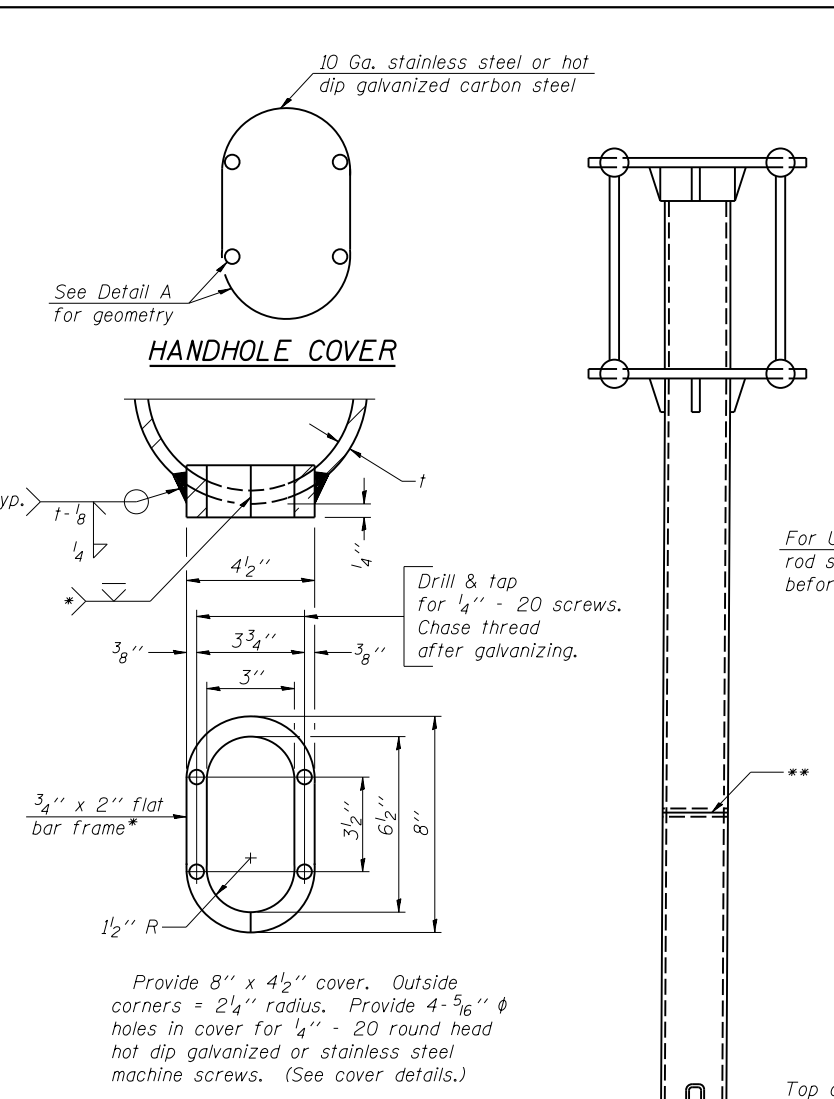
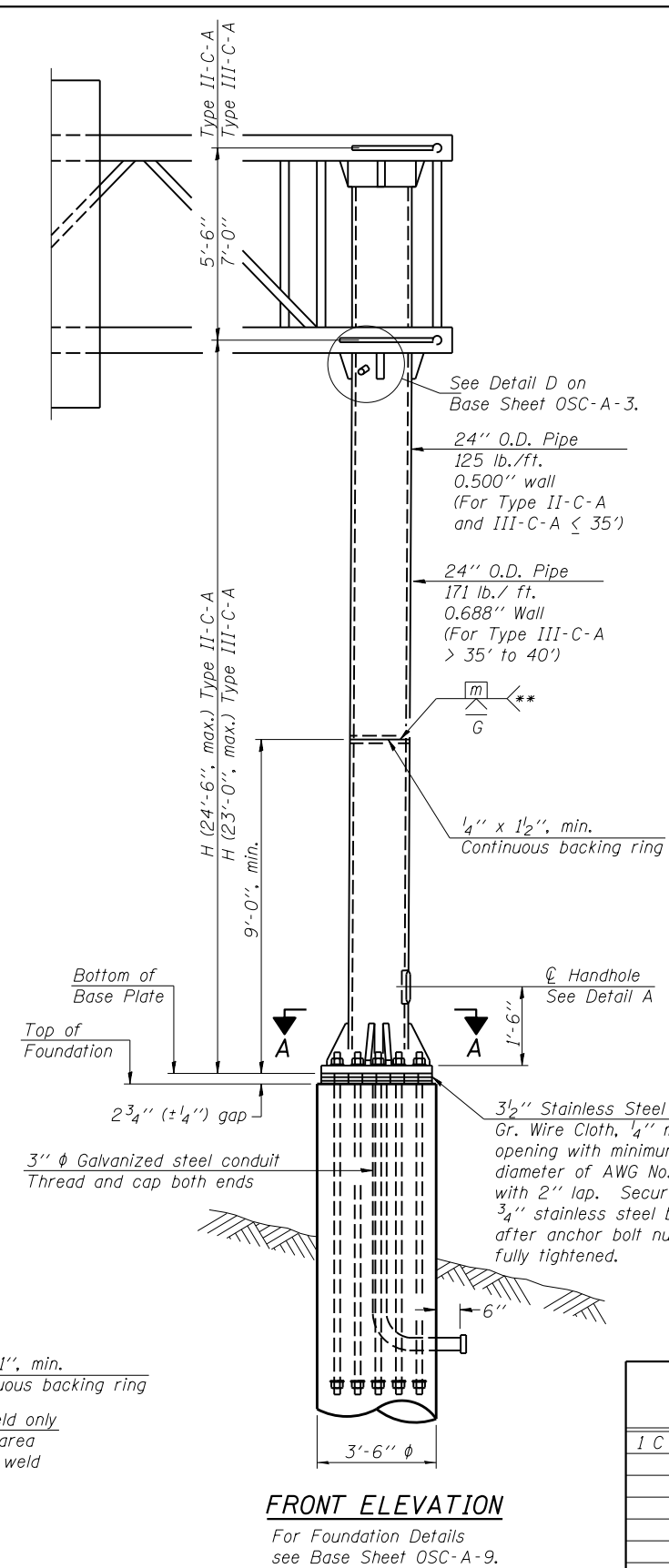
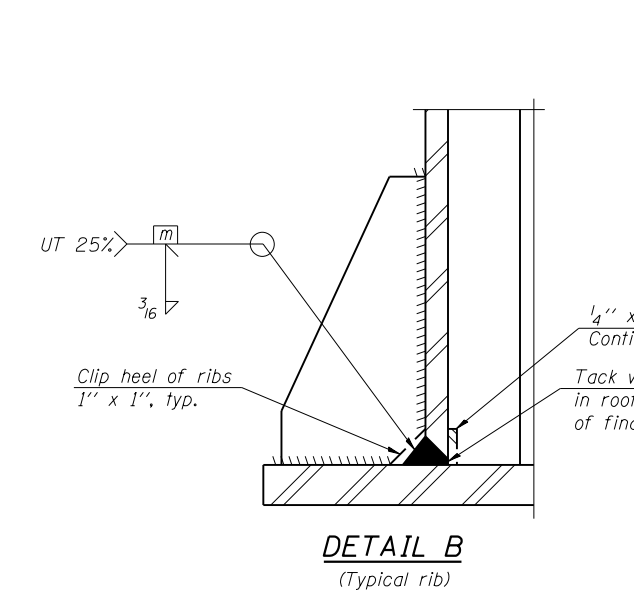
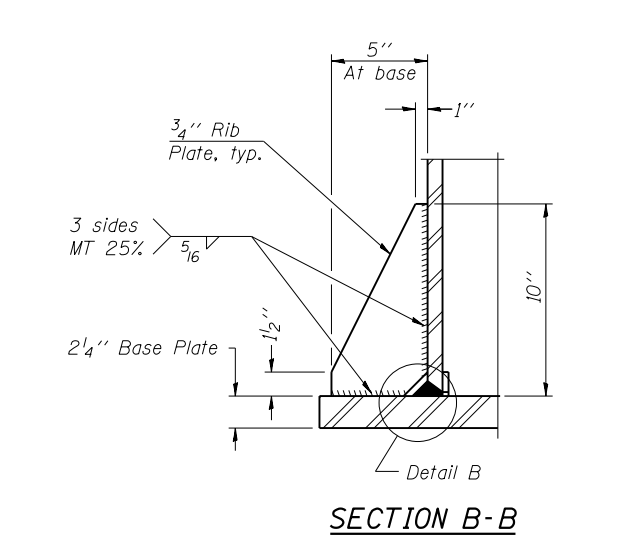
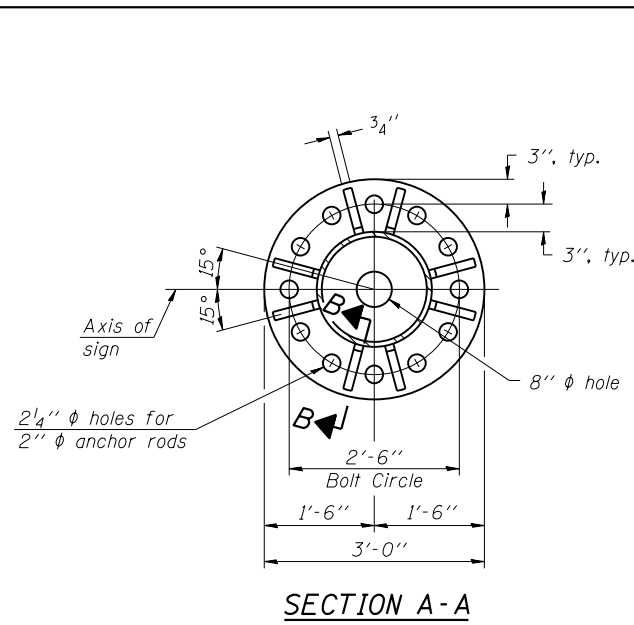
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PLOT SCALE = 1:800000 1/4 in.	DRAWN - RJ	REVISED -
PLOT DATE = 4/5/2016	CHECKED - RD	REVISED -
	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

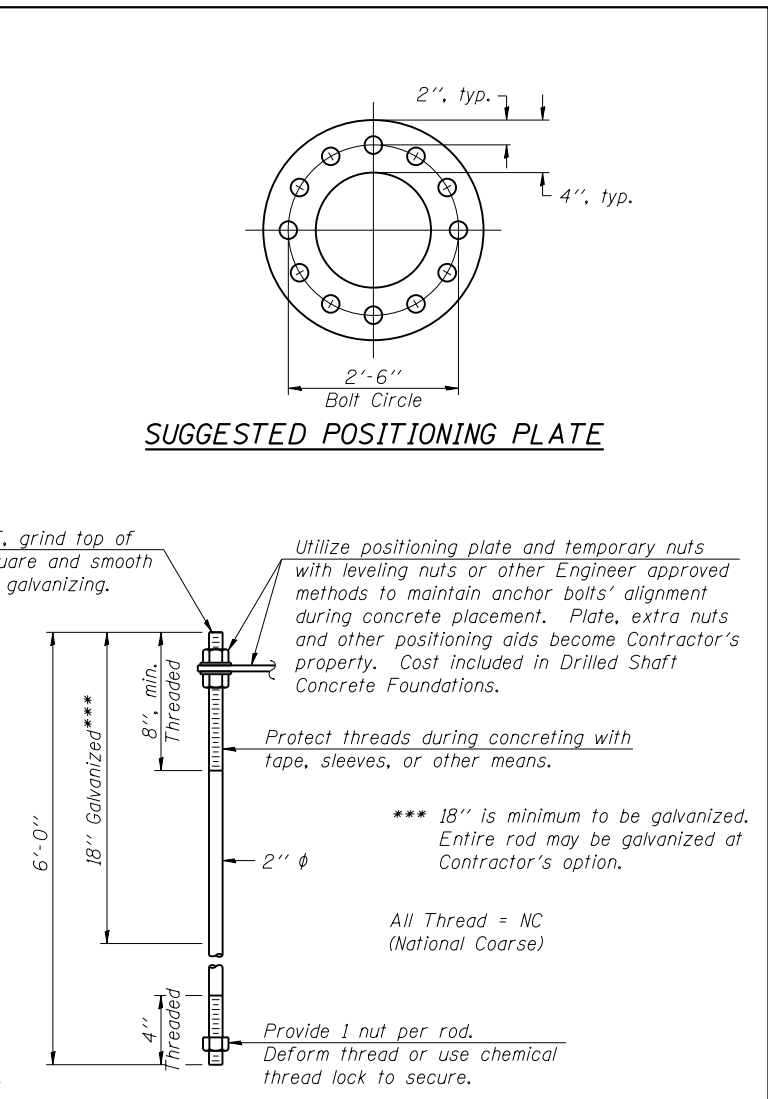
CANTILEVER SIGN STRUCTURES - JUNCTURE DETAILS
ALUMINUM TRUSS & STEEL POST
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	194
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

FILE NAME: I:\Projects\1190_CantileverSign\Drawings\OSC-A-5.dgn
 PROJECT: 1190_CantileverSign\Drawings\OSC-A-5.dwg
 DATE: 8/2/2016
 DRAWN: TB
 CHECKED: RJ
 DESIGNED: RD
 USER: kenneth.irette



Structure Number	Station	H
I C 016 1190 L 000.5	106+25	21'-9"



Note: "H" based on 15'-0" or actual sign height, whichever is greater.

OSC-A-5

6-1-12



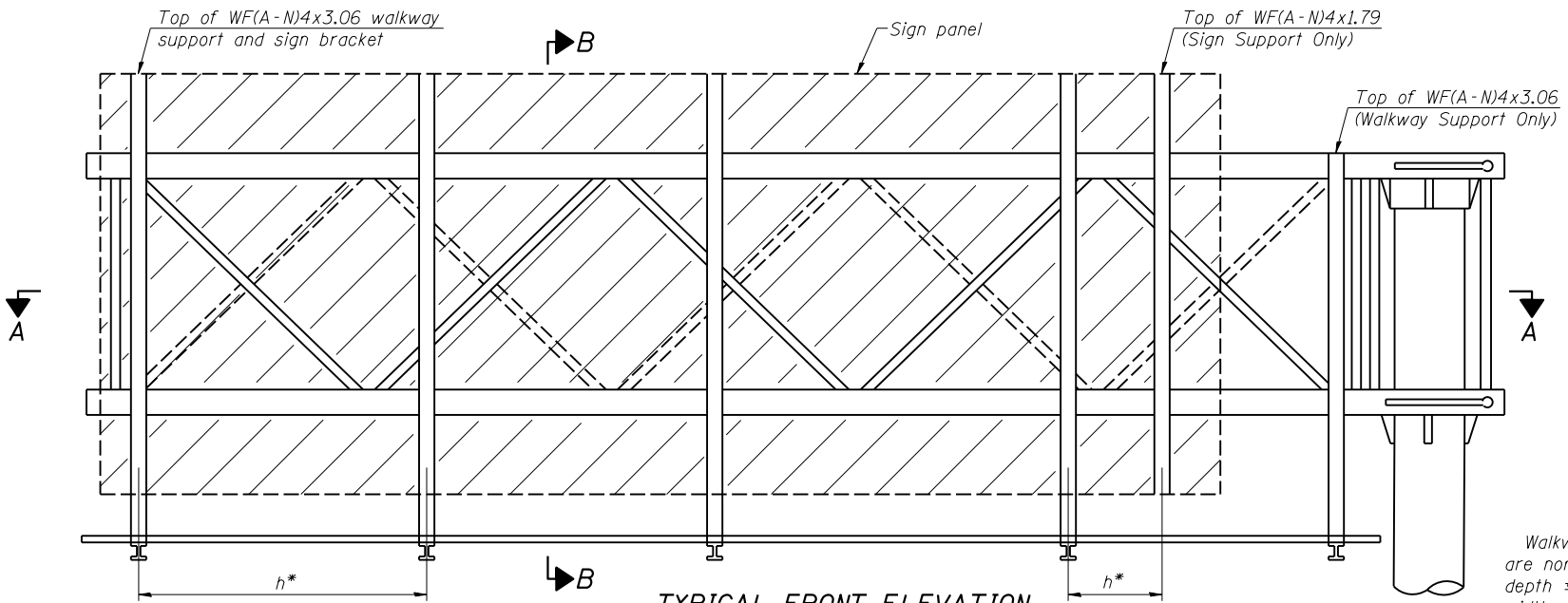
DESIGNED - RD	REVISIONS
DRAWN - TB	
CHECKED - RJ	
DATE - 8/2/2016	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - TYPE II-C-A & III-C-A
TRUSS SUPPORT POST - ALUMINUM TRUSS & STEEL POST

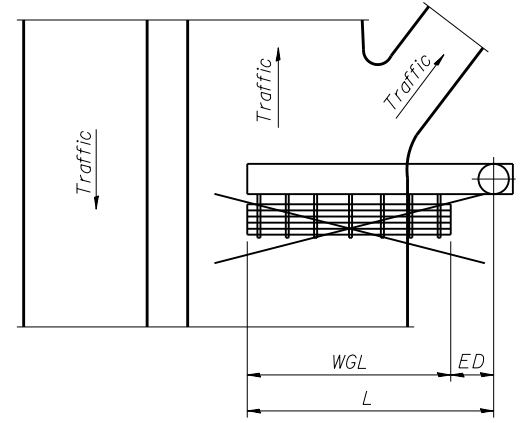
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



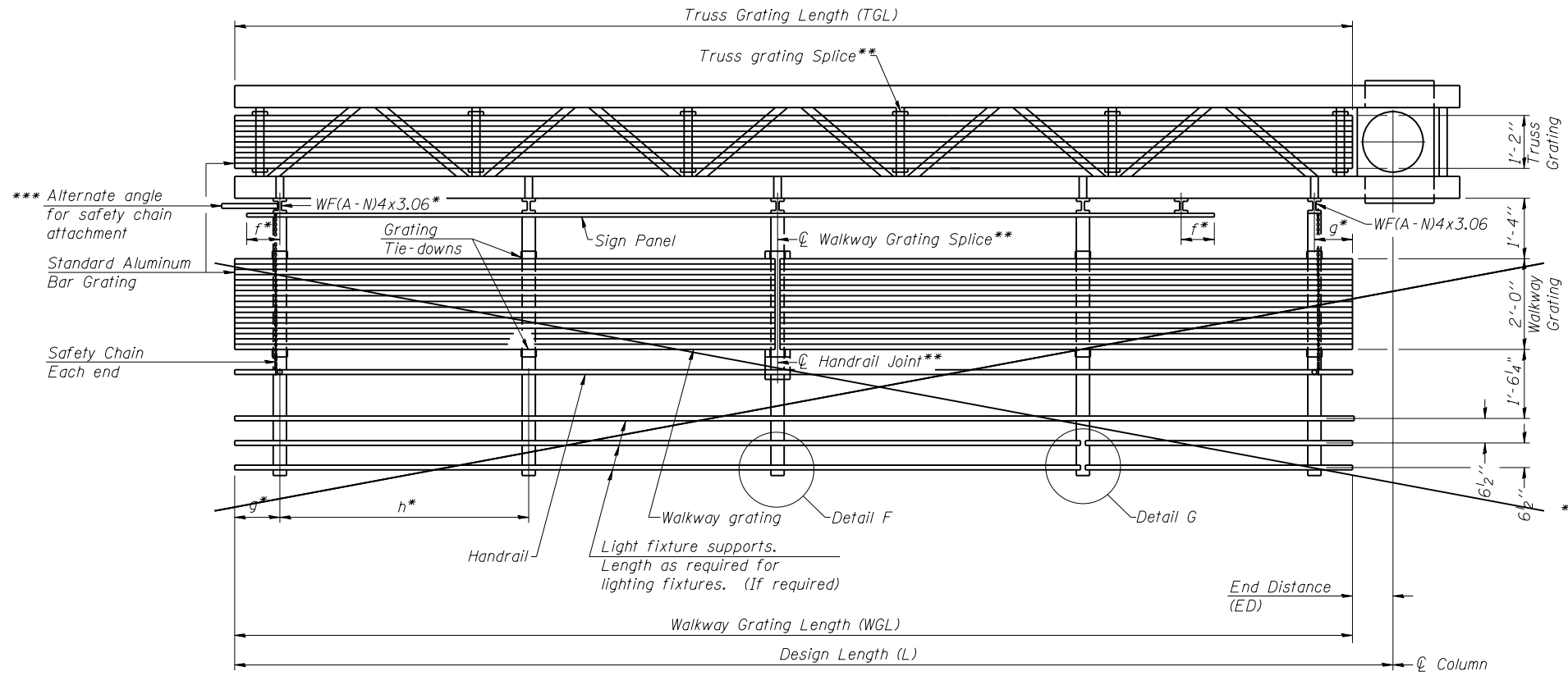
TYPICAL FRONT ELEVATION
With lights and handrail omitted for clarity.

Walkway and truss grating dimensions are nominal and may vary (width ± 1/2", depth ± 1/2") based on available standard widths.



PLAN WALKWAY AND HANDRAIL SKETCH
(Road plan beneath truss varies)

Structure Number	Station	WGL	ED	TGL
1C0161190L000.5	106+25	—	—	33'



SECTION A-A

Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhead Sign Structure Cantilever.

Handrail and walkway grating shall span a minimum of three brackets between splices.
** Use and location of handrail joints or grating splices are optional, based on lengths needed and material availability.

$$TGL = L - \left(\frac{\text{Post O.D.}}{2} + 6'' \right)$$

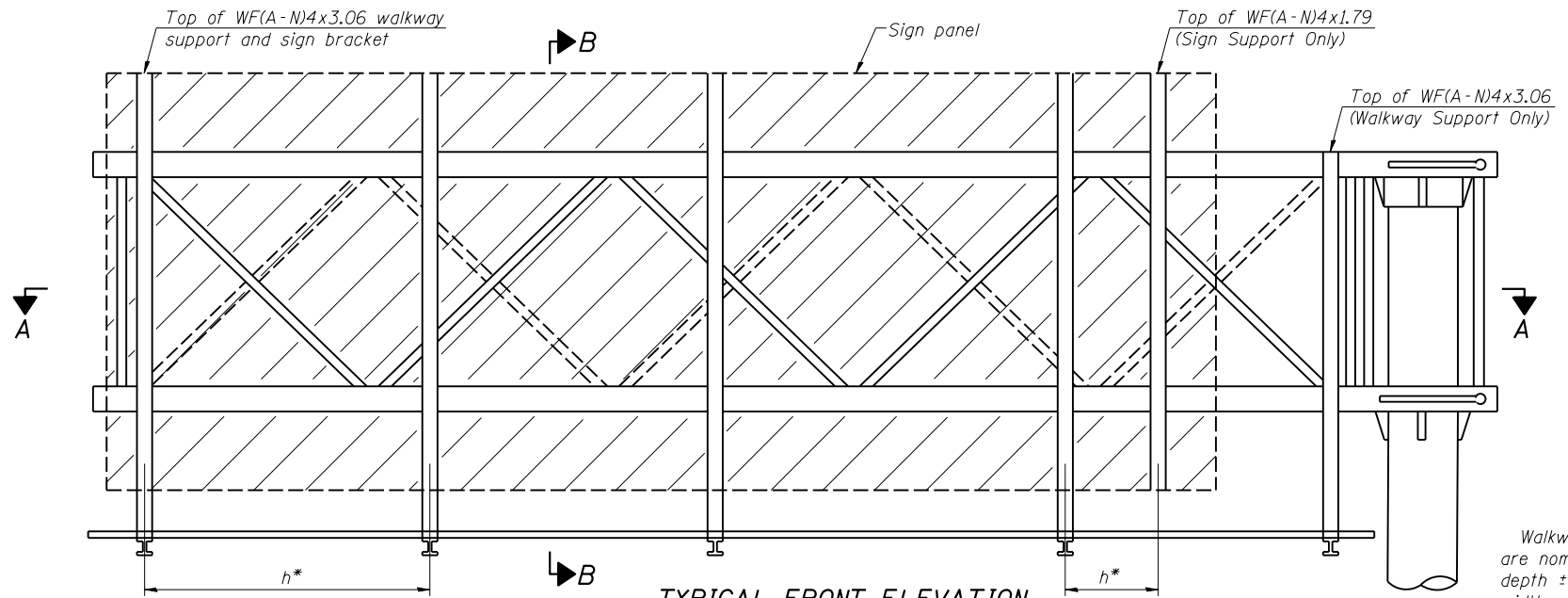
Notes:
* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:
 $f = 12''$ maximum, $4''$ minimum (End of sign to ϕ of nearest bracket)
 $g = 12''$ maximum, $4''$ minimum (End of walkway to ϕ of nearest bracket)
 $h = 6'-0''$ maximum (ϕ to ϕ sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
*** If walkway bracket at safety chain location is behind sign, add angle to bracket. See alternate safety chain attachment on base sheet OSC-A-8
For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Base Sheet OSC-A-7.
For details of handrail, handrail joint, safety chain and Details F and G, see Base Sheet OSC-A-8.

BRACKET TABLE

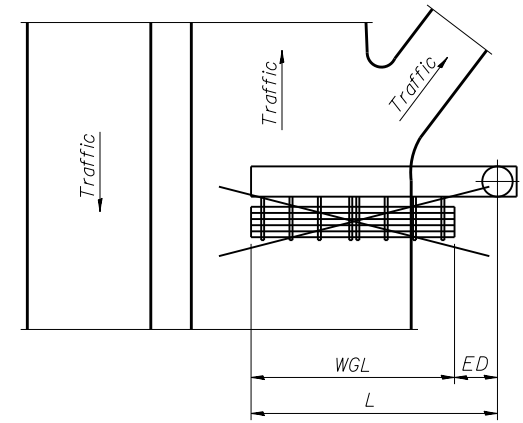
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

OSC-A-6

6-1-12

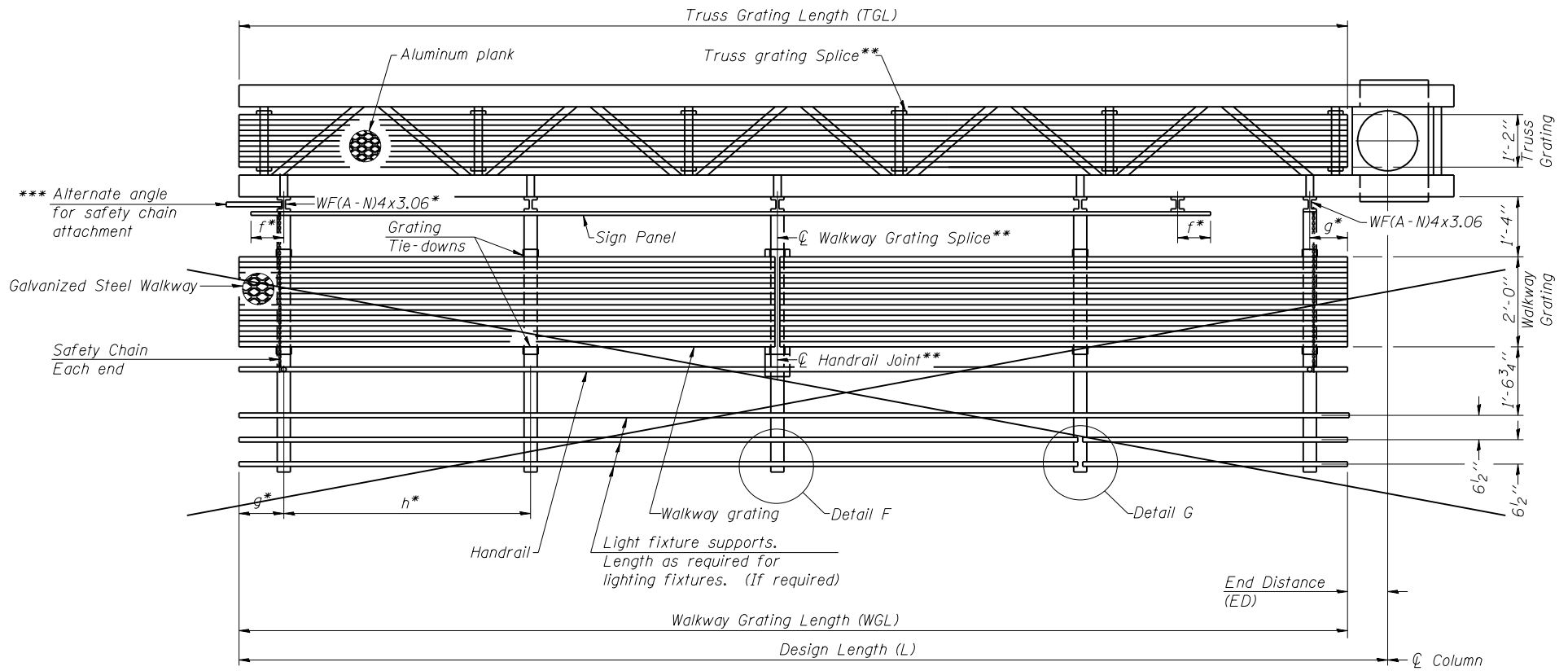


TYPICAL FRONT ELEVATION
With lights and handrail omitted for clarity.



PLAN WALKWAY AND HANDRAIL SKETCH
(Road plan beneath truss varies)

Walkway and truss grating dimensions are nominal and may vary (width ±1/2", depth ±1/2") based on available standard widths.



SECTION A-A

Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhead Sign Structure Cantilever.

Handrail and walkway grating shall span a minimum of three brackets between splices.
** Use and location of handrail joints or grating splices are optional, based on lengths needed and material availability.

$$TGL = L - \left(\frac{\text{Post O.D.}}{2} + 6'' \right)$$

Structure Number	Station	WGL	ED	TGL
1C0161190L000.5	106+25	—	—	33'

- Notes:
- * Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:
 - f = 12" maximum, 4" minimum (End of sign to center of nearest bracket)
 - g = 12" maximum, 4" minimum (End of walkway to center of nearest bracket)
 - h = 6'-0" maximum (center to center sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
 - *** If walkway bracket at safety chain location is behind sign, add angle to bracket. See alternate safety chain attachment on base sheet OSC-A-8.
 - For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Base Sheet OSC-A-7S.
 - For details of handrail, handrail joint, safety chain and Details F and G, see Base Sheet OSC-A-8.

BRACKET TABLE

Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

OSC-A-6S

6-1-12



USER NAME = kenneth.irette	DESIGNED - RD	REVISED -
PLOT SCALE = 1:8.0000 '1' / 1"	DRAWN - RJ	REVISED -
PLOT DATE = 7/29/2016	CHECKED - RD	REVISED -
	DATE - 05/06/2016	REVISED -

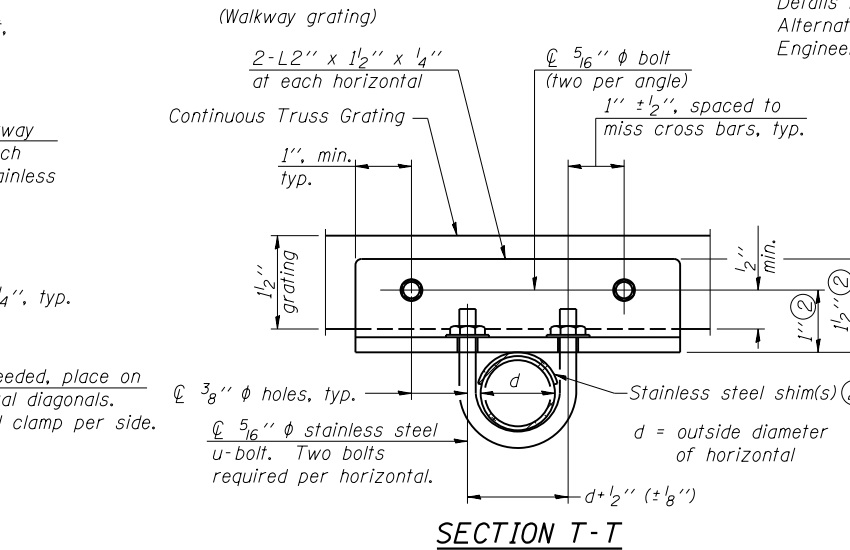
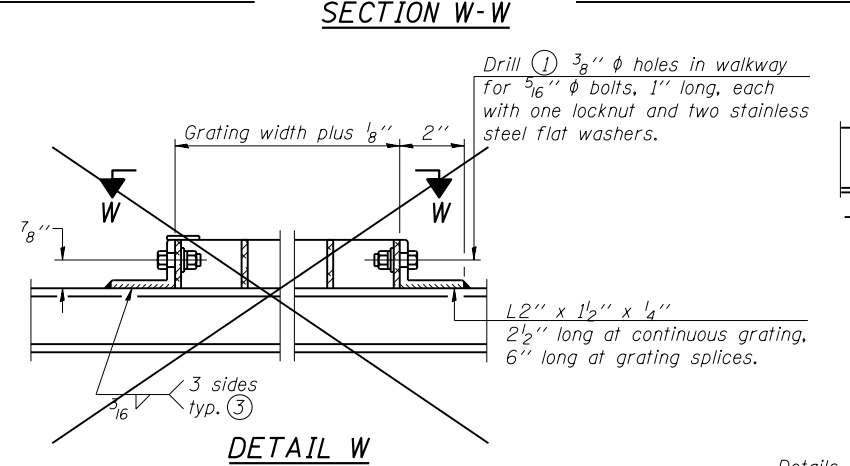
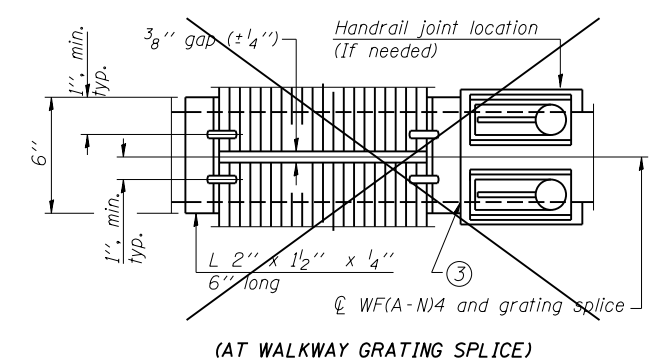
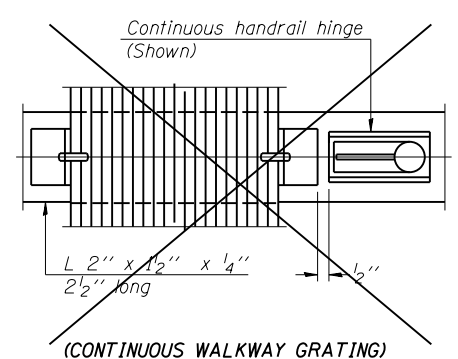
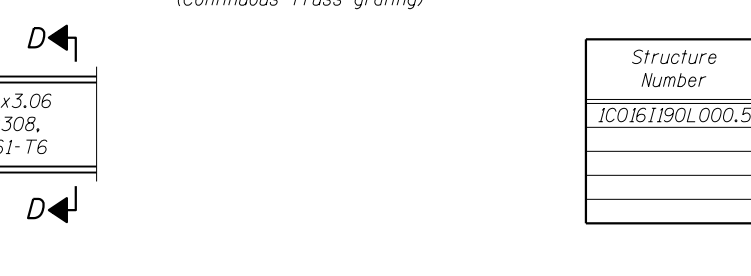
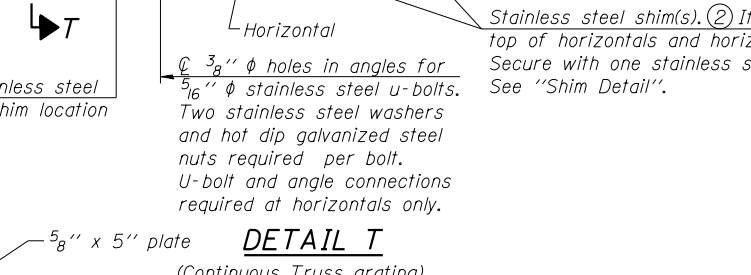
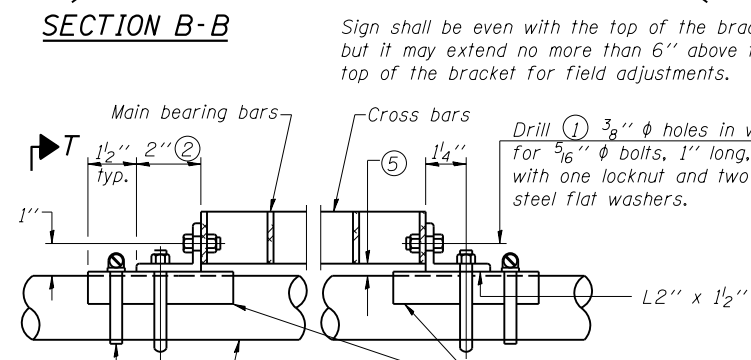
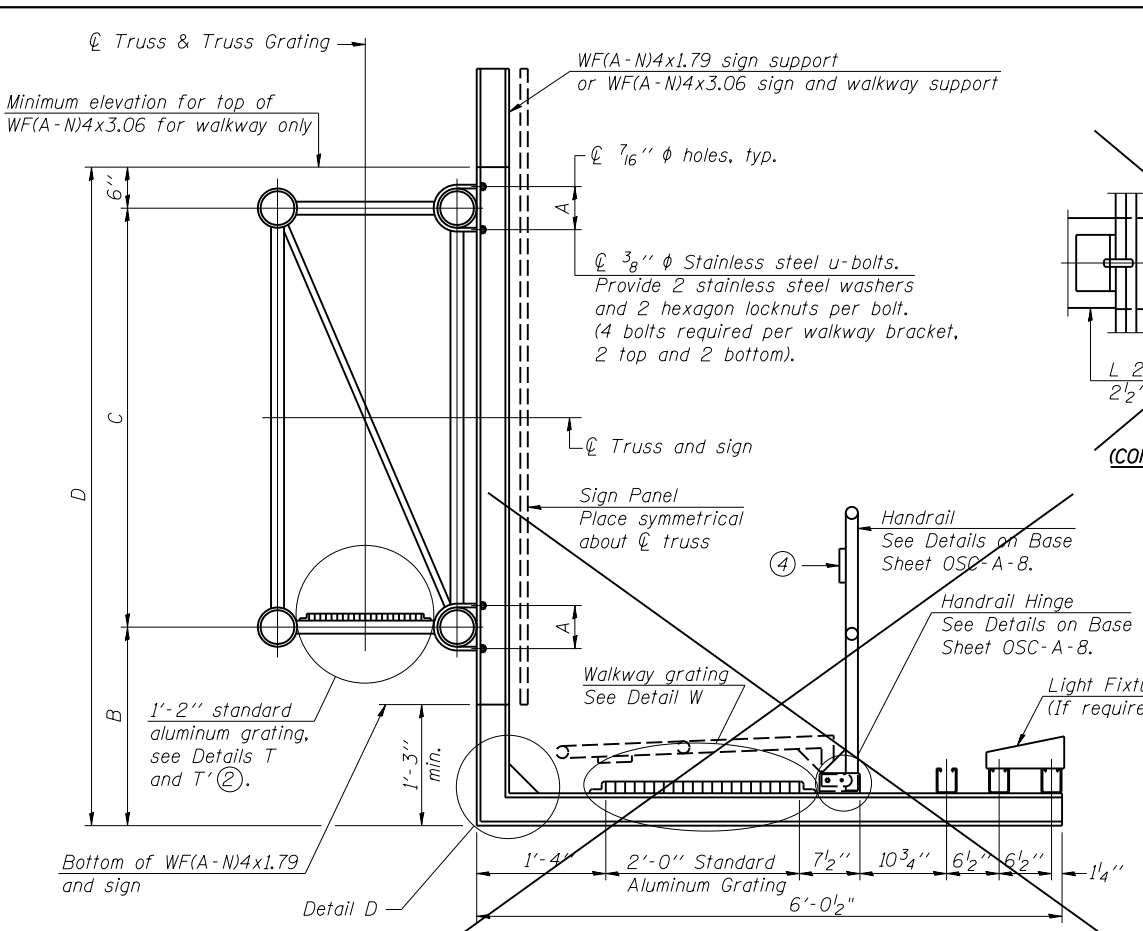
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - ALTERNATE STEEL WALKWAY DETAILS - ALUMINUM TRUSS & STEEL POST

F.A.I. RTE. 190	SECTION 1517R-1(13)	COUNTY COOK	TOTAL SHEETS 580	SHEET NO. 197
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

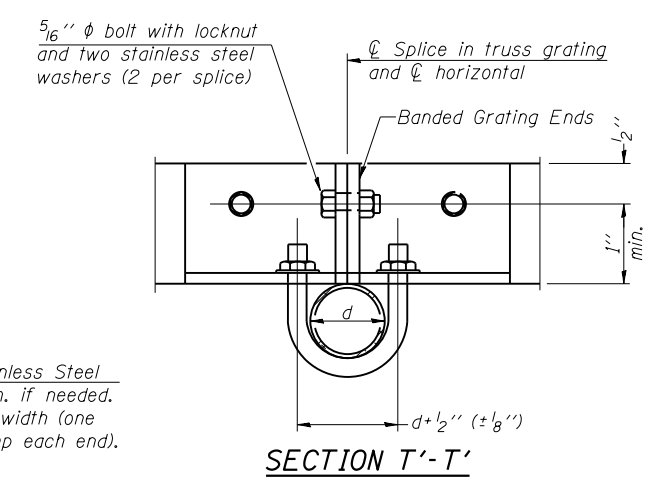
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 DATE: 05/06/2016
 DRAWN: R.J.
 CHECKED: R.D.
 DESIGNED: R.D.
 USER: kenneth.irette

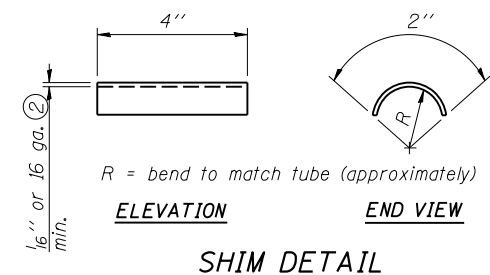


SPECIFICATIONS FOR STANDARD ALUMINUM GRATING
 Main Bearing Bars (MBB) shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.
 Cross bars (CB) shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR
 Aluminum Grating with modified "T" sections for main bearing bars shall meet the following requirements:
 Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.
 Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.



DETAIL T'
 (Truss grating splice)
 Details not shown same as Detail T.
 Alternate materials may be used subject to the Engineer's review and approval.



- ① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- ② Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- ③ If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OSC-A-8.)
- ④ 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- ⑤ Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- ⑥ Based on actual sign height, D_s, given on OSC-A-1.

Structure Number	Station	WGL	ED	TGL
1C0161190L000.5	106+25	---	---	33'

OSC-A-7

6-1-12



USER NAME = kenneth.irette	DESIGNED - RD	REVISED -
PLOT SCALE = 1:8.0000 '1' / 1"	DRAWN - RJ	REVISED -
PLOT DATE = 7/29/2016	CHECKED - RD	REVISED -
	DATE - 05/06/2016	REVISED -

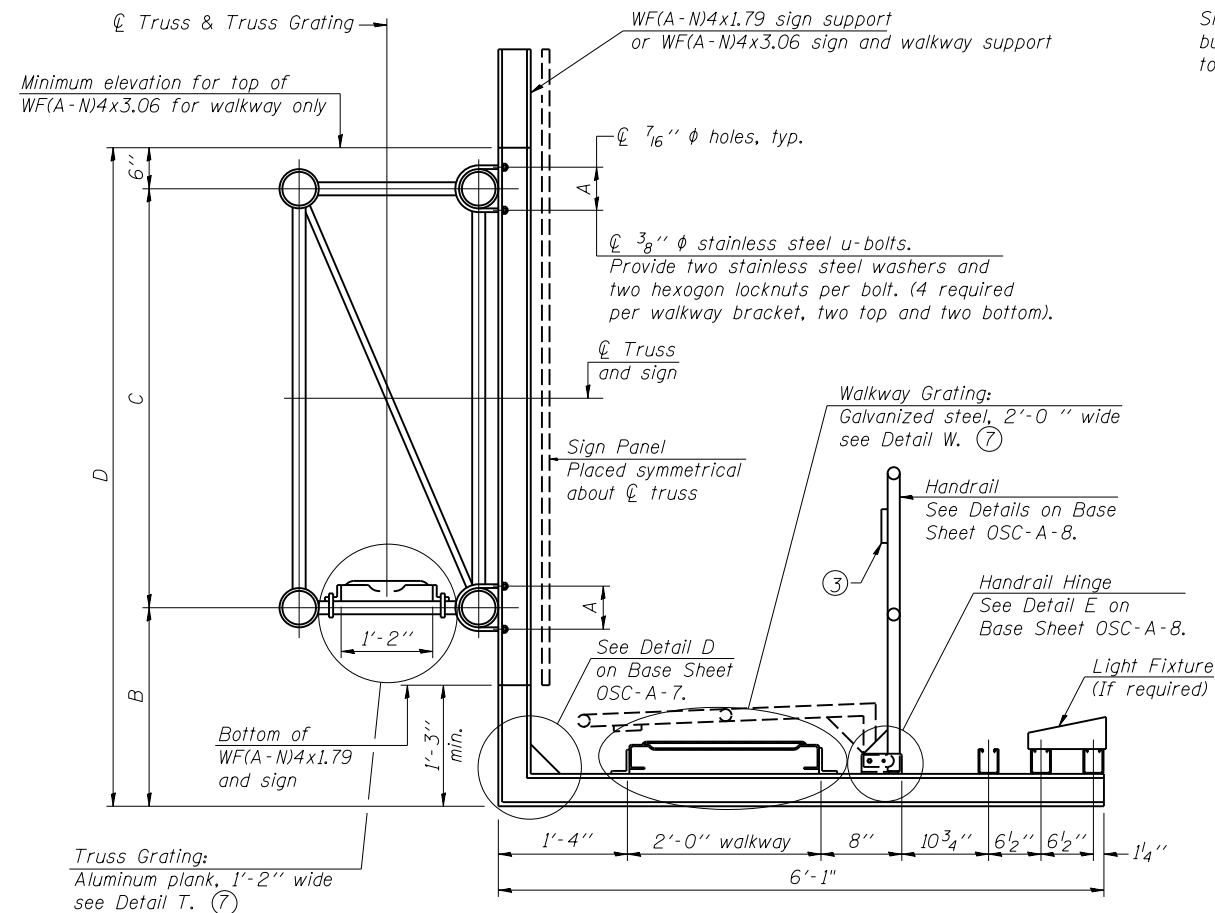
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CANTILEVER SIGN STRUCTURES - WALKWAY DETAILS
 ALUMINUM TRUSS & STEEL POST**

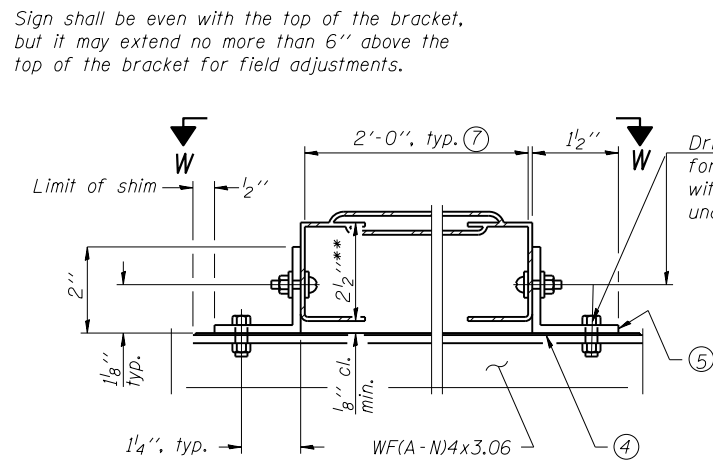
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

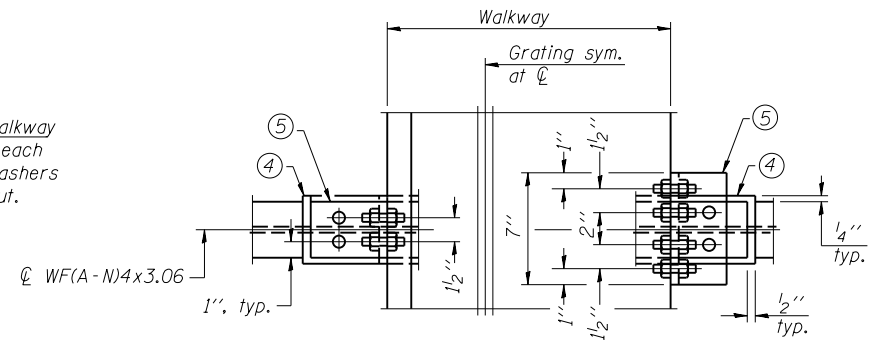
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 DRAWN: Kenneth Irette
 CHECKED: Kenneth Irette
 DATE: 05/06/2016



SECTION B-B

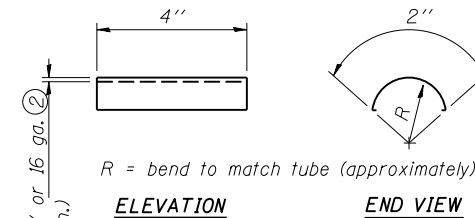


**DETAIL W
GALVANIZED STEEL WALKWAY GRATING**



WALKWAY GRATING CONTINUOUS AT WALKWAY GRATING SPLICE

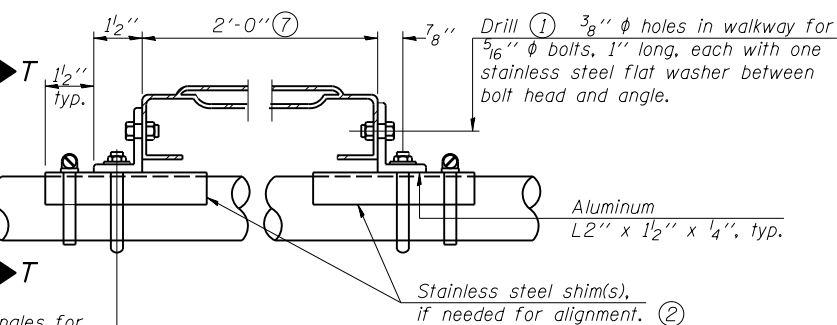
SECTION W-W



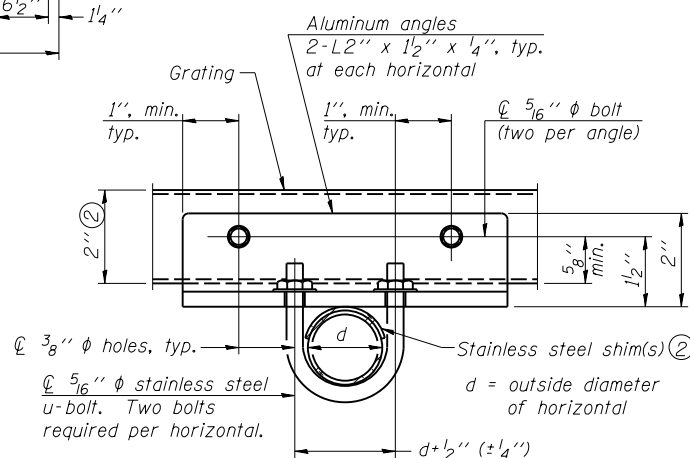
SHIM DETAIL

- ① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- ② Stainless steel shims shall be placed under angles at horizontals and horizontal diagonals if needed to compensate for alignment variations and differences in horizontal diagonal pipe sizes beyond adjustment provided by angles. Secure with one stainless steel clamp per location, see "Shim Detail". Thicker shim plates may be used when needed subject to shims performing properly.
- ③ 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- ④ 1/16" (or 16 ga.) x 2 1/2" x 4" stainless steel shim adhered to top of WF(A-N)4x3.06 beneath each galvanized angle, typ. Adhesives for shims shall be suitable for materials joined and full exposure conditions.
- ⑤ Galvanized steel L2" x 2" x 1/4", 3 1/2" long with continuous grating 7" long at grating splice.
- ⑥ Details shown are considered equal alternatives to Aluminum Walkway Details and may be substituted by Contractor at no charge in contract cost.
- ⑦ Perforated or expanded metal grating providing a skid resistant (non-serrated) surface and capable of supporting a 500 pound concentrated load with a 6'-0" clear span. Walkway and truss grating dimensions are nominal and may vary (width ± 1/2", depth 1/2") based on available standard sizes. Cut ends of grating shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.
- ⑧ Based on actual sign height, Ds, given on OSC-A-1.

Truss Grating:
Aluminum plank, 1'-2" wide
see Detail T. ⑦

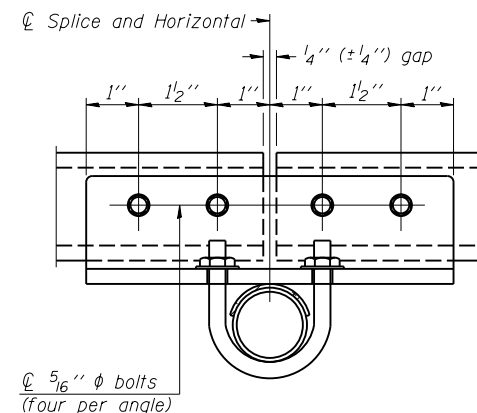


**DETAIL T
(Truss grating at horizontal)**



**SECTION T-T
(Truss Grating Continuous)**

ALUMINUM TRUSS GRATING



SECTION T-T

(Truss Grating Splice)
Alternate splice details and locations may be used subject to the Engineer's review and approval.

Structure Number	Station	A	⑥ B	C	⑥ D
1C0161190L000.5	106+25	8 3/8"	4'-9"	7'-0"	12'-3"

OSC-A-7S

6-1-12

USER NAME = kenneth.irette	DESIGNED - RD	REVISED -
PLOT SCALE = 1:8.0000 '1' / 1"	DRAWN - RJ	REVISED -
PLOT DATE = 7/29/2016	CHECKED - RD	REVISED -
	DATE - 05/06/2016	REVISED -

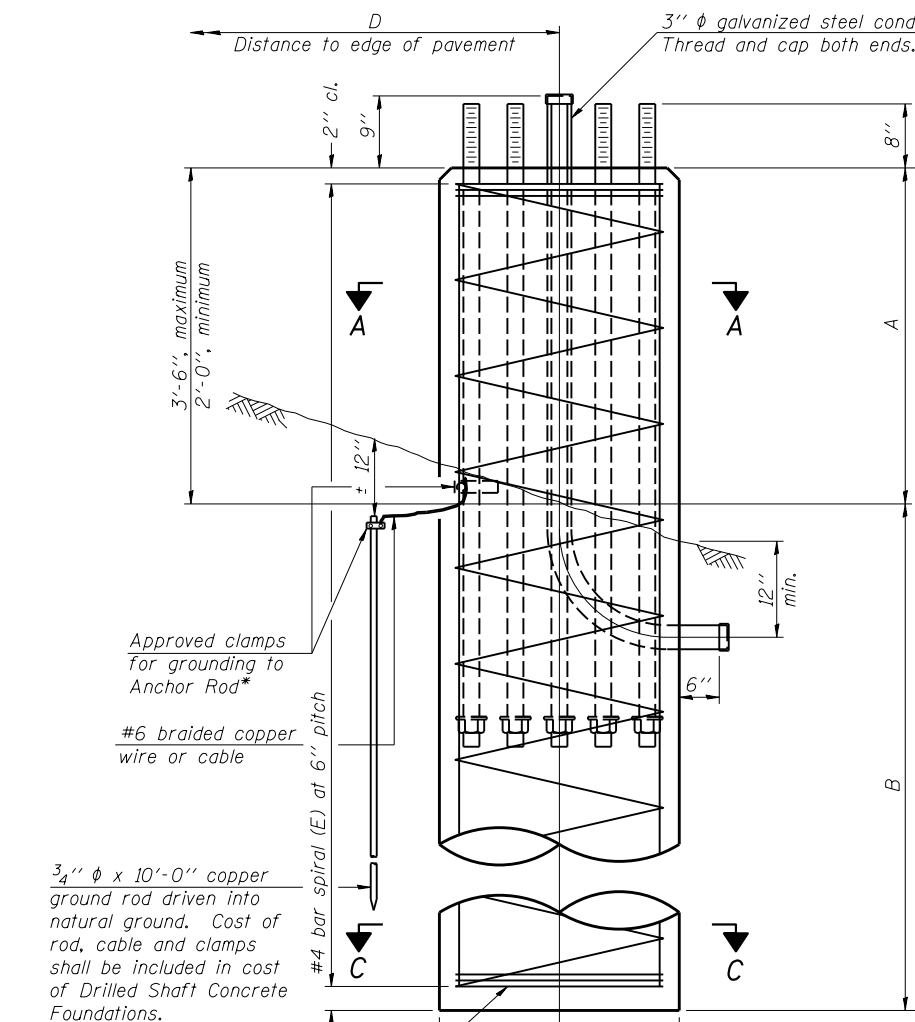
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CANTILEVER SIGN STRUCTURES
ALTERNATE WALKWAY DETAILS**

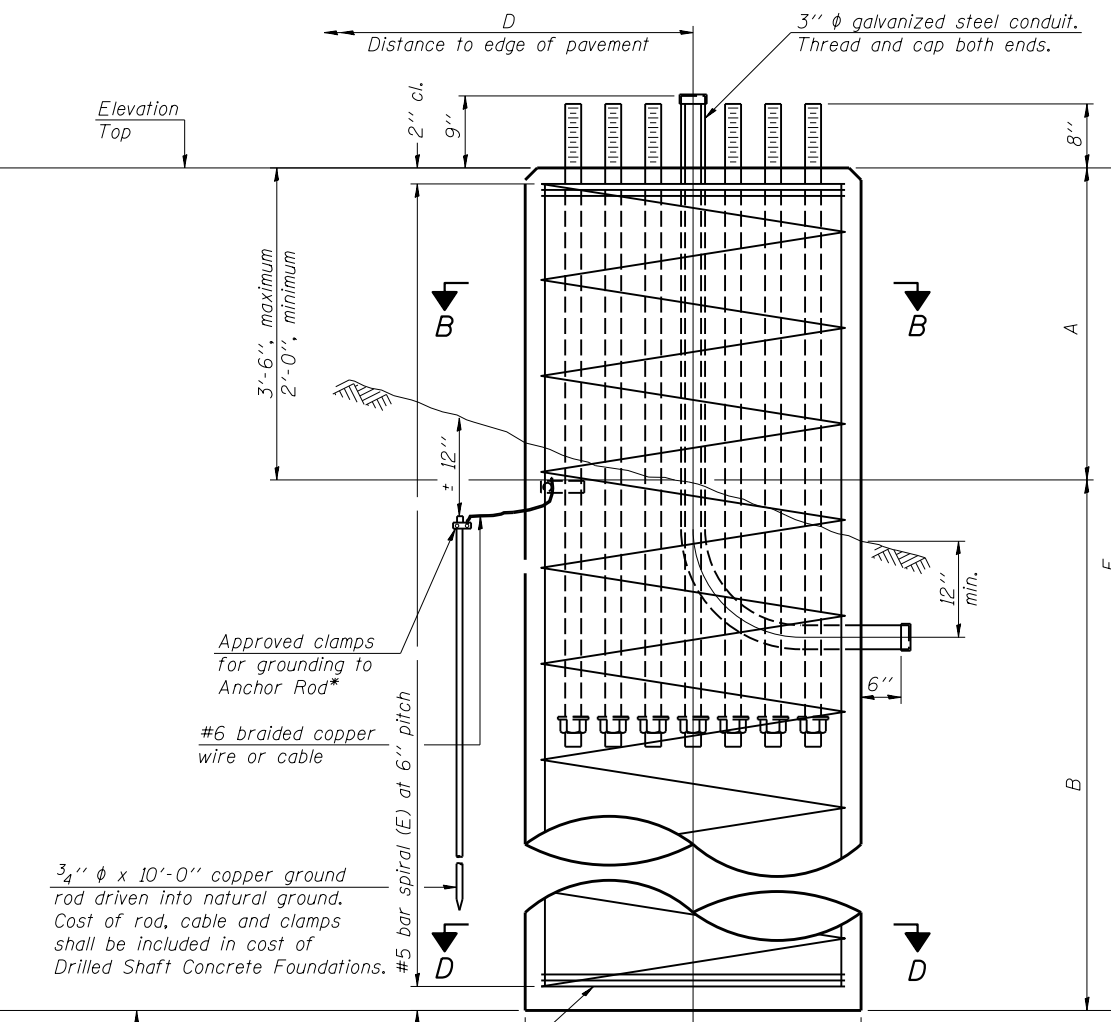
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	199
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

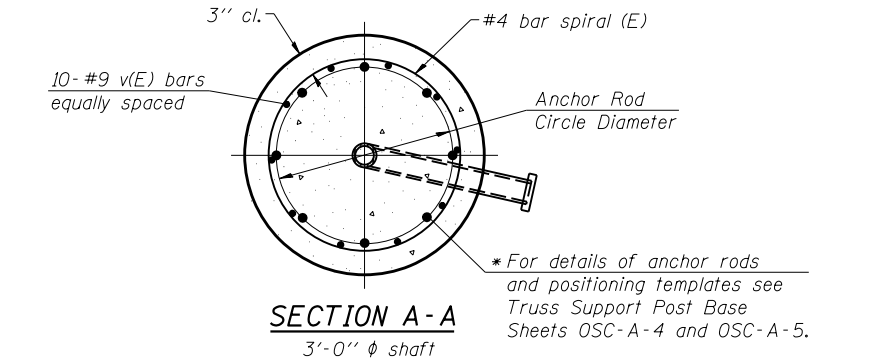
* Grind anchor rod to bright finish at ground clamp location before installing clamp.



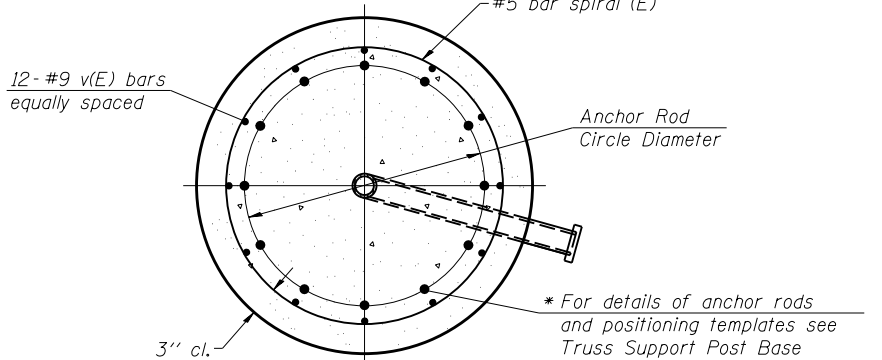
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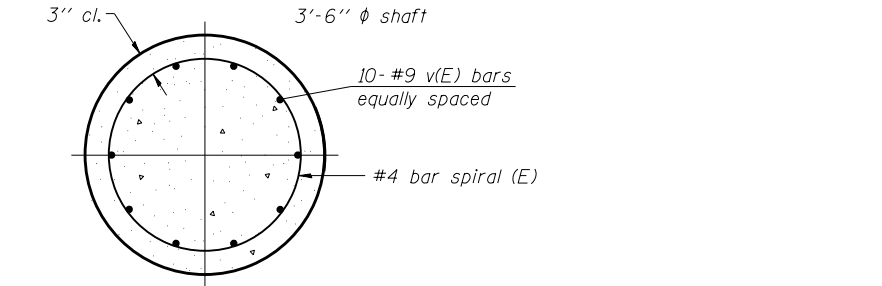
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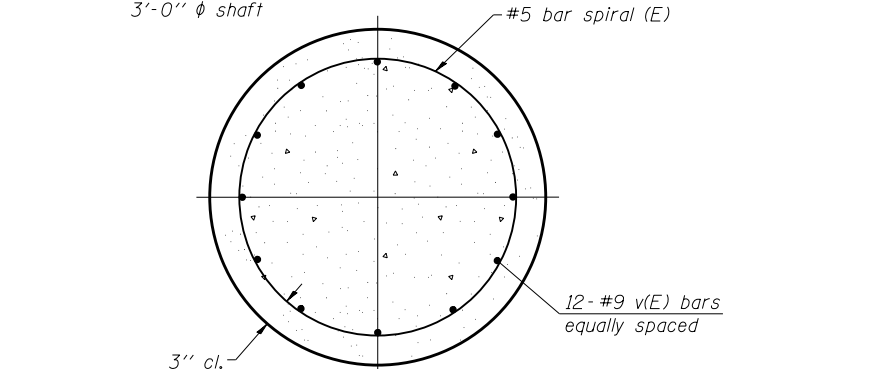
SECTION A-A
3'-0" ϕ shaft



SECTION B-B
3'-6" ϕ shaft



SECTION C-C
3'-0" ϕ shaft



SECTION D-D
3'-6" ϕ shaft

NOTES:
 The foundation dimensions shown in the Foundation Design Table are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Q_u) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown in the Foundation Data Table will be the result of site specific designs.
 If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.
 No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.
 Concrete shall be placed monolithically, without construction joints.
 Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.
 A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

Truss Type	Post Base Sheet	Maximum Cantilever Length (ft)	Maximum Total Sign Area (sq ft)	Shaft Diameter (in)	"B" Depth (ft)	Anchor Rods		Anchor Rod Circle Diameter (in)
						No.	Diameter (in)	
I-C-A	OSC-A-4	25	170	3.0	16.0	8	2	22
II-C-A	OSC-A-5	30	170	3.5	17.0	12	2	30
II-C-A	OSC-A-5	30	340	3.5	21.5	12	2	30
III-C-A	OSC-A-5	35	170	3.5	19.0	12	2	30
III-C-A	OSC-A-5	35	250	3.5	22.5	12	2	30
III-C-A	OSC-A-5	35	400	3.5	26.5	12	2	30
III-C-A	OSC-A-5	40	400	3.5	32.0	12	2	30

Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Q_u	A	B	F	Class DS Concrete Cubic Yards
I C 016 I190 L 000.5	106+25	III-C-A	3'-6"	632.62	598.12	1.8 ksf	2'-6"	32'-0"	34'-6"	12.3

OSC-A-9

8-21-13



USER NAME = kenneth.irette	DESIGNED - RD	REVISED -
PLOT SCALE = 1" = 10'	DRAWN - RJ	REVISED -
PLOT DATE = 7/28/2016	CHECKED - RD	REVISED -
	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - DRILLED SHAFT
ALUMINUM TRUSS & STEEL POST

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE. 190	SECTION 1517R-1(13)	COUNTY COOK	TOTAL SHEETS 580	SHEET NO. 200
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				