

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2007-057 T	COOK	60	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 60D93		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

F.A.I. ROUTE 290 (EISENHOWER EXPRESSWAY)
@ I-290 EB RAMP AND AT DES PLAINES AVE
SECTION: 2007-057 T
DRAINAGE MODIFICATIONS

PROJECT: *IM-290-4(111)097*

COOK COUNTY
C-91-131-08

RANGE 14E 3RD PM

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN
CITY OF CHICAGO

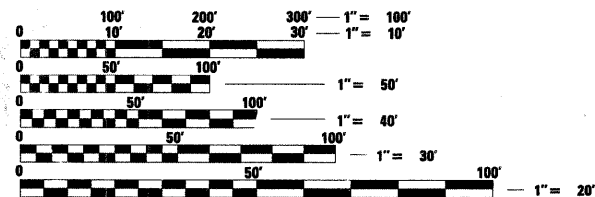
TRAFFIC DATA

ADT: 191,000 (2007)

POSTED SPEED: 45 MPH

PROJECT DESCRIPTION:

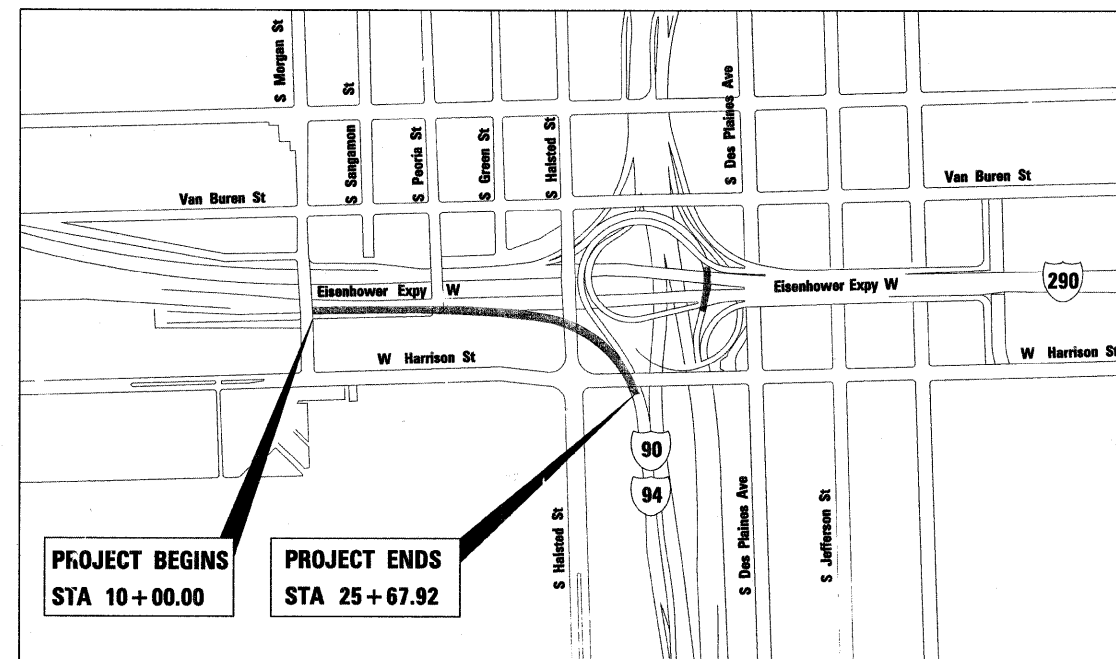
THE SCOPE OF WORK CONSISTS OF DRAINAGE MODIFICATIONS BY JACKING STORM SEWER UNDER EASTBOUND I-290, STORM SEWER INSTALLATION, NEW DRAINAGE STRUCTURES AND NEW BARRIER WALLS, NEW RETAINING WALL, SIGN TRUSS REPLACEMENT, PAVEMENT PATCHING, HMA SHOULDERS AND PAVEMENT MARKING AS REQUIRED.



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

CUAN
CHICAGO UTILITY AREA NETWORK
312-744-7000

CONTRACT NO. 60D93



NET LENGTH OF PROJECT (I-290) = 1567.92 LIN FT = 0.297 MILES (EASTBOUND)



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

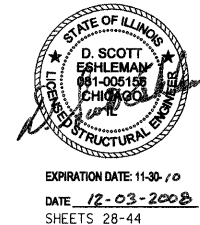
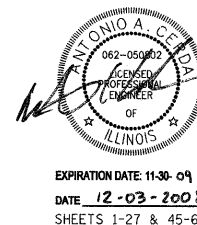
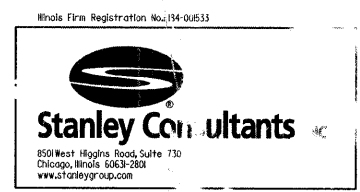
SUBMITTED DECEMBER 4, 2008

Diana M. O'Keefe OF
DEPUTY DIRECTOR OF HIGHWAYS, P.E. GINEER

January 30, 2009
Charles J. Ingersoll / *CD*
ENGINEER OF DESIGN AND ENVIRONMENT

January 30, 2009
Christine M. Reed / *CD*
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS



DESIGN - CONSULTANT SERVICES - PROJECT MANAGER - BRIAN KUTTAB (847)705-4431

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LIST OF STATE STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
442101-07	CLASS B PATCHES
442201-03	CLASS C AND D PATCHES
482006-03	HMA SHOULDER ADJACENT TO RIGID PAVEMENT
601001-03	SUBSURFACE DRAINS
602001-01	CATCH BASIN TYPE A
602011-01	CATCH BASIN TYPE C
602301-02	INLET TYPE A
602306-02	INLET TYPE B
602401-02	MANHOLE TYPE A
602406-03	MANHOLE TYPE A 6' DIAMETER
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604001-03	FRAMES AND LIDS, TYPE 1
604046-02	FRAME AND GRATE TYPE 10
604071-04	FRAME AND GRATE TYPE 20
604086-02	FRAME AND GRATE TYPE 23
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606101-04	TYPE A GUTTER (INLET, OUTLET & ENTRANCE)
630001-08	STEEL PLATE BEAM GUARDRAIL
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
637001-04	CONCRETE BARRIER, DOUBLE FACE, 815 mm (32 IN) HEIGHT
701101-02	OFF-ROAD OPERATIONS, MULTILANE, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
701400-03	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-05	LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-05	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-05	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >= 45 MPH
701426-03	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS >= 45 MPH
701446-01	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701901-01	TRAFFIC CONTROL DEVICES
704001-05	TEMPORARY CONCRETE BARRIER
IDOT DISTRICT ONE DETAILS * INCLUDED AS PLAN SHEETS 45-53	
BD07	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER
BD24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
BD34	DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER STABILIZATION AT TBT TY 1 SPL
TC09	FREEWAY SINGLE AND MULTI-LANE WEAVE
TC12	MULTI-LANE FREEWAY PAVEMENT MARKING (2 SHEETS)
TC17	TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
TC18	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
TC22	ARTERIAL ROAD INFORMATION SIGN

GENERAL NOTES

- ALL ELEVATIONS SHOWN REFER TO U.S.G.S. DATUM UNLESS OTHERWISE NOTED.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL CUAN (CHICAGO UTILITY ALERT NETWORK), (312) 744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED).
- 10 ft (3 m) TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD, UNLESS OTHERWISE SHOWN.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF CHICAGO.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP YARD OR FIELD OFFICE ON STATE OR CITY PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING AREAS.
- WHERE SECTION, SUBSECTION, SUBDIVISION OR PROPERTY MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- DURING CONSTRUCTION OPERATION WHEN ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF THE GUTTERS OR DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY.
- PROTECTIVE COAT SHALL BE APPLIED IN ACCORDANCE WITH ARTICLE 420.18 OF THE STANDARD SPECIFICATION TO CONCRETE BARRIER, ALL EXPOSED SURFACES OF CURBS AND GUTTERS. ANY PART OF THIS ITEM CAN BE DELETED OR ANOTHER ADDED AT THE DISCRETION OF THE ENGINEER.
- SAW CUTTING: A SAW CUT SHALL BE REQUIRED TO THE FULL DEPTH AT THE JOINT BETWEEN PAVEMENT, CURB AND GUTTER, HMA SURFACES TO BE REMOVED AND THAT LEFT IN PLACE AS DIRECTED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE REMOVAL. SAW CUTS FOR PAVEMENT PATCHING SHALL BE MEASURED AND PAID FOR IN ACCORDANCE WITH ARTICLE 442.
- THE CONTRACTOR'S SPECIAL ATTENTION IS REQUIRED TO PRESERVE AS MANY TREES, SHRUBS, AND BUSHES AS POSSIBLE DURING THE CONSTRUCTION OF THE IMPROVEMENT. COST OF REMOVAL OF HEDGES AND BRUSH WHICH ARE NOT LISTED SEPARATELY AS A PAY ITEM IN THE PLANS SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE OF EARTH EXCAVATION.
- DRAINAGE STRUCTURE INVERTS AND LOCATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO INSTALLATION OF DRAINAGE ITEMS. BEFORE ORDERING STORM SEWERS, INLETS, CATCH BASINS, PIPE CULVERTS, PIPE DRAINS, AND MANHOLES, THE CONTRACTOR SHALL CONTACT THE ENGINEER AS TO THE EXACT LENGTH AND QUANTITY REQUIRED.
- THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS BITUMINOUS LIFTS.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AC TYPE	AIR VOIDS
SHOULDERS		
HOT-MIX ASPHALT SHOULDER, 10 INCH (IL-9.5 mm)	PG 64-22	4% @ 70 GYR.
HOT-MIX ASPHALT SHOULDER, 6 INCH (IL-9.5 mm)	PG 64-22	4% @ 70 GYR.
PATCHING (SHOULDER)		
CLASS D PATCHES, TYPE I, II, III, OR IV 10 INCH (HMA BINDER IL-19 mm)	PG 64-22*	4% @ 70 GYR.
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	PG 64-22*	4% @ 70 GYR.
PATCHING (MAINLINE & RAMPS)		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N105	PG 64-22	4% @ 105 GYR.

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQ YD/IN.

* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

FILE NAME = 02_0160093-SHT-GENNOTE.dgn	USER NAME = \$USER*	DESIGNED - BKS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES			F.A.I. RTE. 290	SECTION 2007-057 T	COUNTY COOK	TOTAL SHEETS 60	SHEET NO. 7
	PLOT SCALE = 1:1	DRAWN - BKS	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. 10+00.00 TO STA. 25+67.92	CONTRACT NO. 60D93		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
	PLOT DATE = 12/12/2008	CHECKED - AAC	REVISED -									
		DATE - 12/12/2008	REVISED -									

LOCATION OF WORK: FAI-290, I-290 EB RAMP - SANGAMON TO HARRISON AND DES PLAINES, COOK COUNTY, CITY OF CHICAGO

SUMMARY OF QUANTITIES

URBAN
90% FED.
10% STATE

URBAN
90% FED.
10% STATE

CODE NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY I000-2A	Y007	SIGN TRUSS Y002-1C
20200100	EARTH EXCAVATION	CU YD	309	309		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	17	17		
20400800	FURNISHED EXCAVATION	CU YD	1	1		
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	80		80	
20800150	TRENCH BACKFILL	CU YD	624	624		
# 21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	123	123		
# 25100630	EROSION CONTROL BLANKET	SQ YD	123	123		
# 28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	30	30		
# 28000400	PERIMETER EROSION BARRIER	FOOT	161	161		
28000510	INLET FILTERS	EACH	38	38		
31101400	SUB-BASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	2,893	2,547	346	
35101500	AGGREGATE BASE COURSE, TYPE B	CU YD	29	29		
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	56	56		
40603350	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N105	TON	262	262		
42001300	PROTECTIVE COAT	SQ YD	597	11	586	
44000400	GUTTER REMOVAL	FOOT	554	554		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	860	860		
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	50	50		
44002212	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3"	SQ YD	1,724	1,724		
44004250	PAVED SHOULDER REMOVAL	SQ YD	826	826		
44200966	CLASS B PATCHES, TYPE I, 10 INCH	SQ YD	5	5		
44200970	CLASS B PATCHES, TYPE II, 10 INCH	SQ YD	112	112		
44200974	CLASS B PATCHES, TYPE III, 10 INCH	SQ YD	69	69		
44200976	CLASS B PATCHES, TYPE IV, 10 INCH	SQ YD	1,409	1,409		
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	15	15		
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	51	51		
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	211	211		
44213200	SAW CUTS	FOOT	2,739	2,739		
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	8	8		
48203037	HOT-MIX ASPHALT SHOULDERS, 10"	SQ YD	667	667		

CODE NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY I000-2A	Y007	SIGN TRUSS Y002-1C
50102400	CONCRETE REMOVAL	CU YD	7.0			7.0
50200100	STRUCTURE EXCAVATION	CU YD	573		573	
50300225	CONCRETE STRUCTURES	CU YD	110.5		110.5	
50300300	PROTECTIVE COAT	SQ YD	128		128	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	8,760		8,760	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	1,573	1,573		
* 55039700	STORM SEWERS TO BE CLEANED	FOOT	726	726		
55100400	STORM SEWER REMOVAL 10"	FOOT	295	295		
552A0200	STORM SEWERS JACKED IN PLACE, CLASS A 12"	FOOT	614	614		
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	77		77	
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	160.3		160.3	
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1		
60201005	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 10 FRAME AND GRATE	EACH	1	1		
60201310	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 20 FRAME AND GRATE	EACH	10	10		
60201330	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND GRATE	EACH	2	2		
60203905	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	3	3		
60208210	CATCH BASINS, TYPE C, TYPE 20 FRAME AND GRATE	EACH	3	3		
60208230	CATCH BASINS, TYPE C, TYPE 23 FRAME AND GRATE	EACH	2	2		
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	11	11		
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	4		
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2		
60237420	INLETS, TYPE A, TYPE 20 FRAME AND GRATE	EACH	3	3		
60240305	INLETS, TYPE B, TYPE 10 FRAME AND GRATE	EACH	1	1		
60258000	MANHOLES TO BE RECONSTRUCTED (SPECIAL)	EACH	1	1		
60500040	REMOVING MANHOLES	EACH	1	1		
60500050	REMOVING CATCH BASINS	EACH	2	2		
60500060	REMOVING INLETS	EACH	3	3		
60500105	FILLING MANHOLES	EACH	4	4		
60500205	FILLING CATCH BASINS	EACH	4	4		
60500305	FILLING INLETS	EACH	5	5		

* NON-PARTICIPATING ITEM - 100% STATE

SPECIALITY ITEM

LOCATION OF WORK: FAI-290, I-290 EB RAMP - SANGAMON TO HARRISON AND DES PLAINES, COOK COUNTY, CITY OF CHICAGO

SUMMARY OF QUANTITIES

URBAN
90% FED.
10% STATE

CODE NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY 1000-2A	Y007	SIGN TRUSS Y002-1C
60602200	CONCRETE GUTTER	FOOT	10	10		
60602800	CONCRETE GUTTER, TYPE B	FOOT	160	160		
# 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	25		25	
# 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1		1	
63200310	GUARDRAIL REMOVAL	FOOT	353		353	
63700255	CONCRETE BARRIER, DOUBLE FACE, 32 INCH HEIGHT	FOOT	586		586	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4		
67100100	MOBILIZATION	L SUM	1	1		
# 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	225	225		
# 66900450	SPECIAL WASTE PLANS AND REPORT	L SUM	1	1		
# 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	6	6		
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1,370	1,370		
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	9,747	9,747		
70300530	PAVEMENT MARKING TAPE, TYPE III 5"	FOOT	1,788	1,788		
70300550	PAVEMENT MARKING TAPE, TYPE III 8"	FOOT	3,718	3,718		
70300560	PAVEMENT MARKING TAPE, TYPE III 12"	FOOT	436	436		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	6,908	6,908		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,370	1,370		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,540	1,540		
# 72000300	SIGN PANEL - TYPE 3	SQ FT	693			693
# 72400330	REMOVE SIGN PANEL - TYPE 3	SQ FT	693			693
# 73300300	OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	FOOT	105			105
# 73400100	CONCRETE FOUNDATIONS	CU YD	9.0			9.0
# 73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1			1
# 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3,280	3,280		
# 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	3,350	3,350		
# 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	231	231		
# 78003120	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5"	FOOT	1,447	1,447		
# 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	32	32		
# 78100300	REPLACEMENT REFLECTOR	EACH	90	90		

* NON-PARTICIPATING ITEM - 100% STATE

@ Y000

SPECIALITY ITEM

URBAN
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10% STATE

CODE NUMBER	DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY 1000-2A	Y007	SIGN TRUSS Y002-1C
# 78200410	GUARDRAIL MARKERS, TYPE A	EACH	1	1		
# 78200520	BARRIER WALL MARKERS, TYPE B	EACH	48	48		
# 78200530	BARRIER WALL MARKERS, TYPE C	EACH	220	220		
78300100	PAVEMENT MARKING REMOVAL	SQ FT	4,253	4,253		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	32	32		
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	200	200		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
Z0017202	DOWEL BARS 1 1/2"	EACH	710	710		
Z0029999	IMPACT ATTENUATOR REMOVAL	EACH	1	1		
Z0030070	IMPACT ATTENUATORS (SEVERE USE, NARROW), TEST LEVEL 3	EACH	1	1		
Z0030280	IMPACT ATTENUATORS, TEMPORARY (SEVERE USE, NARROW), TEST LEVEL 3	EACH	2	2		
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1		
Z0067800	STEEL CASINGS 22"	FOOT	614	614		
Z0075310	TIE BARS 3/4"	EACH	881	881		
Z0075330	TIE BARS 1 1/4"	EACH	190	190		
# E20200G1	VINE-PARTHENOCISSUS QUINQUEFOLIA (VIRGINIA CREEPER), 1-GALLON POT	EACH	180	180		
# K0029000	PERENNIAL PLANTS, WOODLAND TYPE	UNIT	5.1	5.1		
# K0029400	PERENNIAL PLANT SEDGE	UNIT	15	15		
XX005656	INLET FILTER CLEANING	EACH	38	38		
XX007035	CONTROLLED LOW-STRENGTH MATERIAL SPECIAL	CU YD	40.2	40.2		
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	84	84		
# X0322300	ELECTRIC CABLE IN CONDUIT NO. 18 4/C, TWISTED, SHIELDED	FOOT	200	200		
# X0322859	WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE	POUND	2	2		
X0323357	CONCRETE BARRIER REMOVAL AND REPLACEMENT	FOOT	80			80
Z0050360	IMPACT ATTENUATORS, RELOCATE (SEVERE USE), TEST LEVEL 3	EACH	4			4
# X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1		
# X7013820	TRAFFIC CONTROL SURVEILLANCE, EXPRESSWAYS	CAL DA	90	90		
# X8850102	INDUCTION LOOP	FOOT	139	139		
* XX004812	VIDEO TAPING OF SEWERS	FOOT	386	386		
* X0326294	STORM SEWERS TO BE CLEANED, HEAVY	FOOT	262	262		
X0326095	PIPE UNDERDRAIN REMOVAL AND REPLACEMENT	FOOT	72	72		
@ 20076600	TRAINEES	HOUR	500	500		

FILE NAME = 04_0168093.DWG
PLOT SCALE = 1:1
PLOT DATE = 12/12/2008

USER NAME = #USER#
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DRAWN - BKS
CHECKED - AAC
DATE - 12/12/2008

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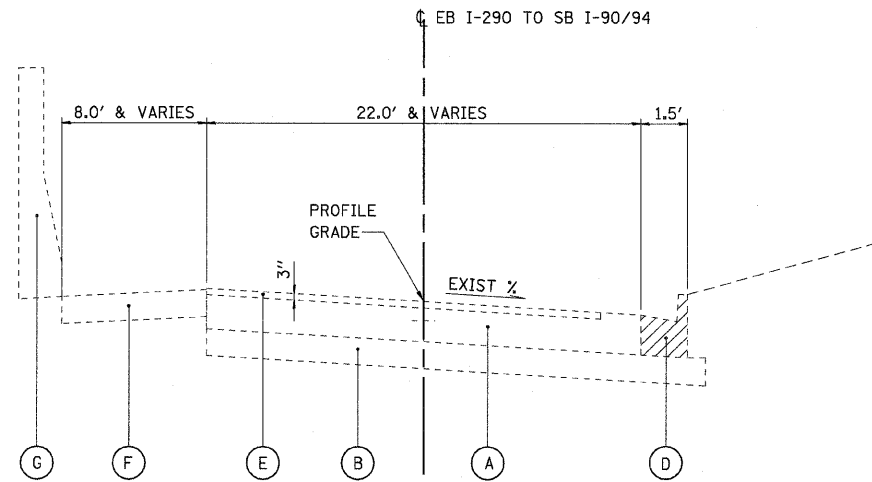
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

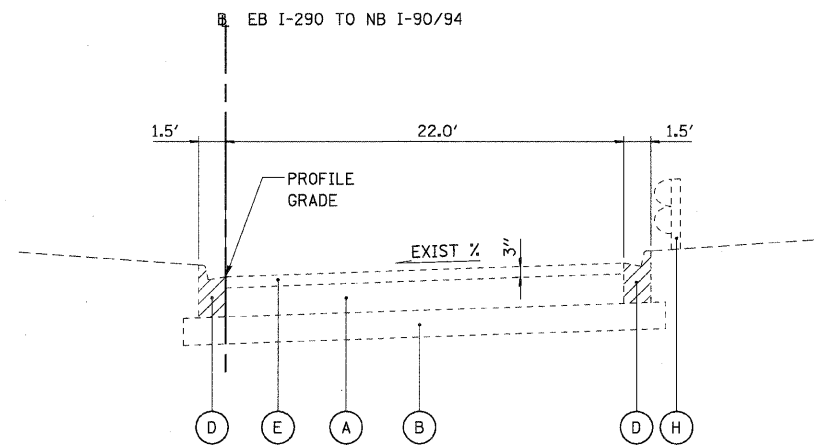
SCALE: NONE SHEET NO. 2 OF 2 SHEETS STA. 10+00.00 TO STA. 25+67.92

F.A.I. RTE. 290 SECTION 2007-057 T COUNTY COOK TOTAL SHEETS 60 SHEET NO. 4 CONTRACT NO. 60D93

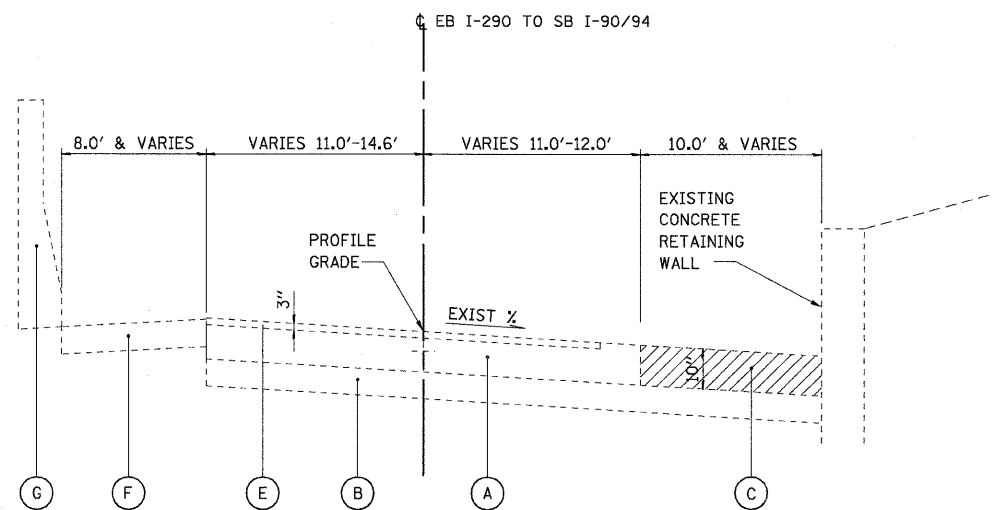
Rev



EXISTING SECTION
I-290 TO I90/I94 SOUTHBOUND RAMP - STA 23+00.81 TO 24+77.39



EXISTING SECTION
I-290 TO I90/I94 NORTHBOUND RAMP - STA 51+00 TO STA 51+20



EXISTING SECTION
I-290 TO I90/I94 SOUTHBOUND RAMP - STA 24+77.39 TO 25+67.92

EXISTING LEGEND:

- (A) EXISTING P.C.C. PAVEMENT, VARIES 10"-13"
- (B) EXISTING SUB-BASE GRANULAR MAT'L 6" OR STABILIZED SUB-BASE 4"
- (C) EXISTING HMA SHOULDERS
- (D) EXISTING COMB CONC CURB AND GUTTER TYPE M-2.12
- (E) EXISTING HMA OVERLAY (3")
- (F) EXISTING P.C.C. SHOULDER
- (G) EXISTING CONCRETE BARRIER
- (H) EXISTING STEEL PLATE BEAM GUARD RAIL TO BE REMOVED (SEE PLANS FOR LIMITS)

ITEM TO BE REMOVED

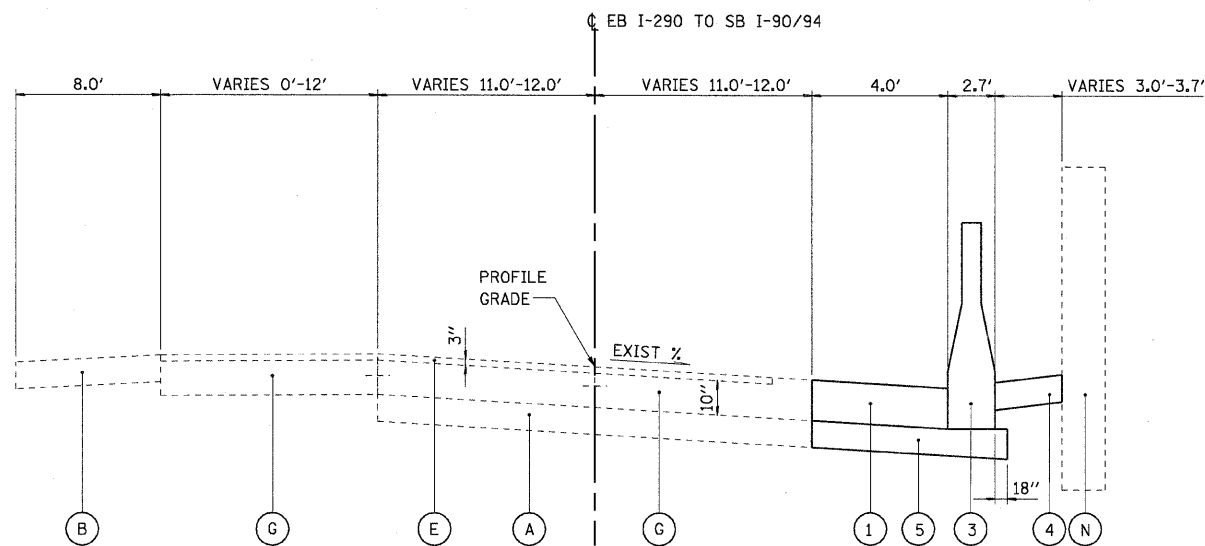
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PLOT DATE = Thursday, December 11, 2008		DATE - 12/12/2008	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

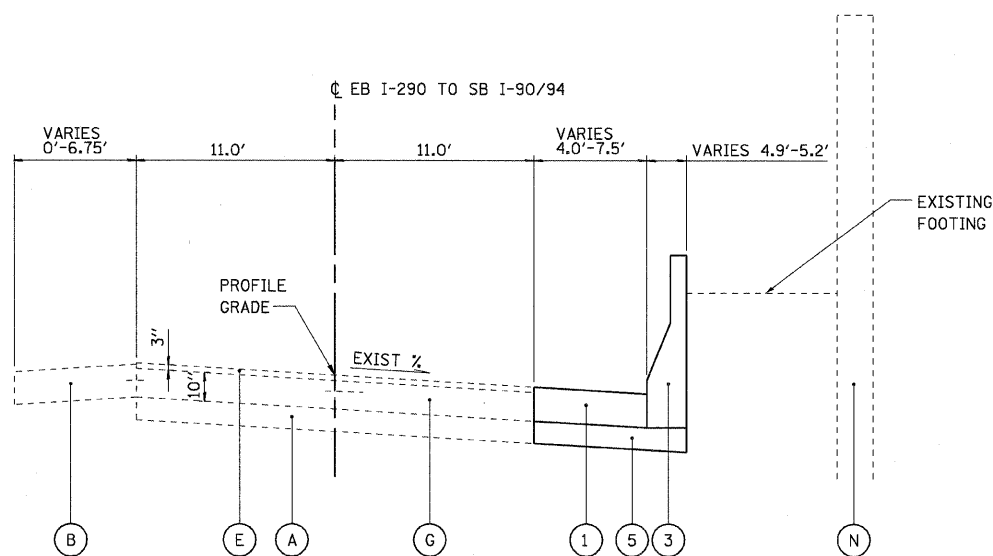
TYPICAL SECTIONS

SCALE: NONE SHEET NO. 2 OF 4 SHEETS STA. 10+00.00 TO STA. 25+67.92

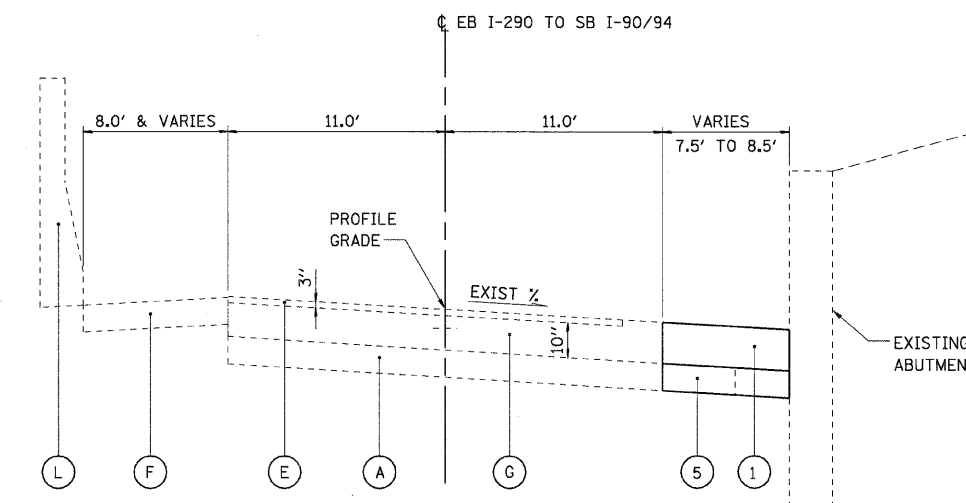
F.A.I. RTE. 290	SECTION 2007-057 T	COUNTY COOK	TOTAL SHEETS 60	SHEET NO. 6
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D93	



PROPOSED SECTION
I-290 TO I90/I94 SOUTHBOUND RAMP - STA 16+38 TO 20+71



PROPOSED SECTION
STA 20+71 TO 22+24



PROPOSED SECTION
I-290 TO I90/I94 SOUTHBOUND RAMP - STA 22+24 TO 23+00.81

EXISTING LEGEND:

- (A) EXISTING SUB-BASE GRANULAR MAT'L 6" OR STABILIZED SUB-BASE 4"
- (B) EXISTING HMA SHOULDERS
- (C) EXISTING PIPE UNDERDRAIN
- (D) EXISTING COMB CONC CURB AND GUTTER TYPE M-2.12
- (E) EXISTING HMA SURFACING
- (F) EXISTING P.C.C. SHOULDER
- (G) EXISTING P.C.C. BASE COURSE
- (H) EXISTING PGE WRAPPED IN FABRIC (VARIOUS LOCATIONS)
- (I) EXISTING HMA CONC SURFACE CSE, MIX D, CL I, TYPE 2 (1-3/4")
- (J) EXISTING HMA CONC SURFACE CSE, MIX E, CL I, TYPE 1 (1-3/4")
- (K) EXISTING HMA CONC SURFACE CSE, MIX B, TYPE 1 (2-1/4")
- (L) EXISTING CONCRETE BARRIER
- (M) EXISTING STEEL PLATE BEAM GUARD RAIL TO BE REMOVED
- (N) EXISTING RETAINING WALL

PROPOSED LEGEND:

- (1) PROPOSED HMA SHOULDER, 10"
- (2) PROPOSED COMB CONC CURB AND GUTTER, TYPE M-2.12
- (3) PROPOSED CONCRETE JERSEY BARRIER, DOUBLE FACE, 32" HEIGHT
- (4) PROPOSED AGGREGATE BASE COURSE, TYPE B, 4"
- (5) PROPOSED SUB-BASE GRANULAR MATERIAL, TY B, 6" & VARIES

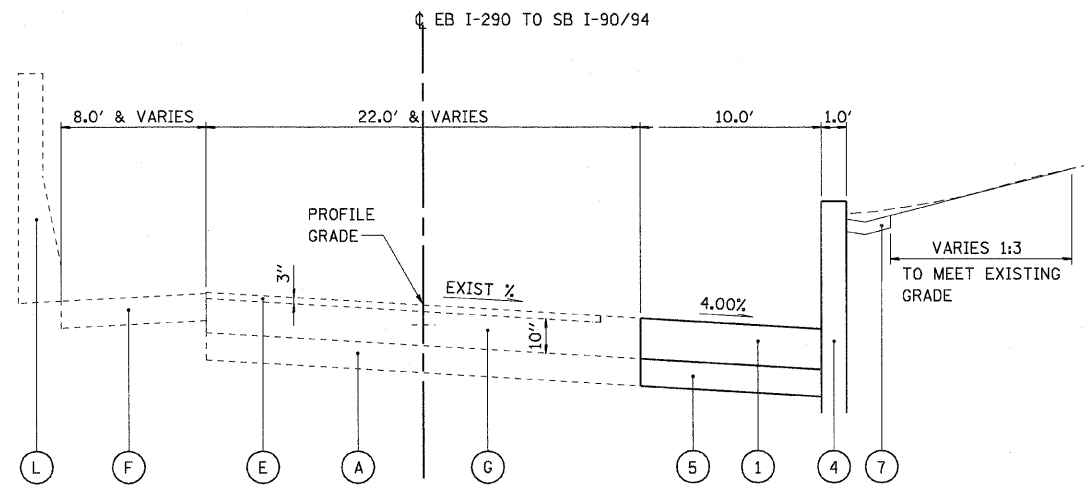
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	PLOT DATE = Thursday, December 11, 2008	DATE - 12/12/2008	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

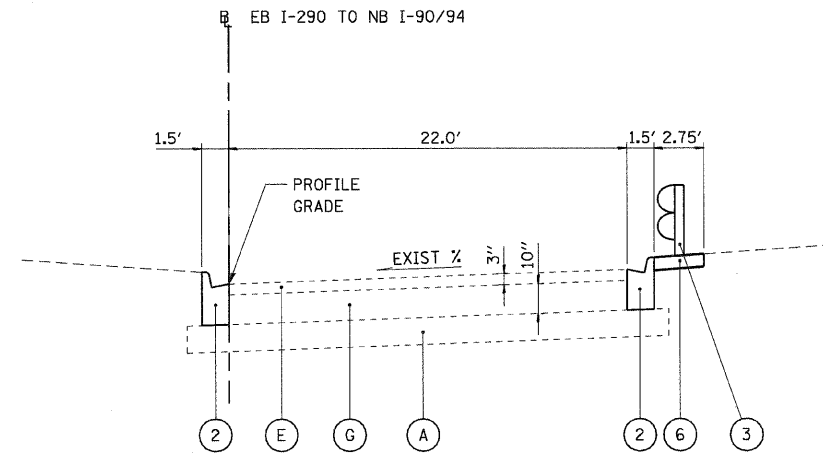
SCALE: NONE SHEET NO. 3 OF 4 SHEETS STA. 10+00.00 TO STA. 25+67.92

F.A.I RTE. 290	SECTION 2007-057 T	COUNTY COOK	TOTAL SHEETS 60	SHEET NO. 7
CONTRACT NO. 60D93				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



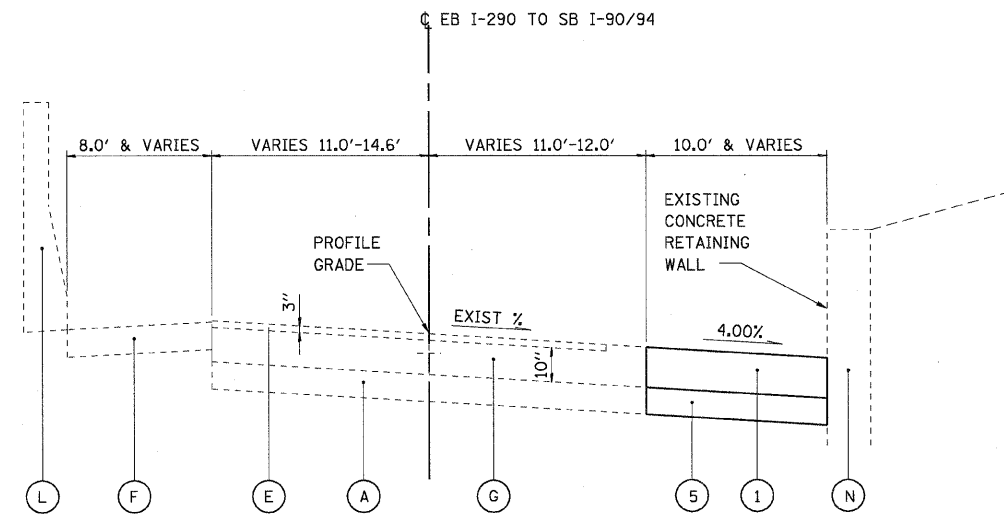
PROPOSED SECTION

I-290 TO I90/I94 SOUTHBOUND RAMP - STA 23+00.81 TO 24+70



PROPOSED SECTION

I-290 TO I90/I94 NORTHBOUND RAMP - STA 51+00 TO STA 51+20



PROPOSED SECTION

I-290 TO I90/I94 SOUTHBOUND RAMP - STA 24+70 TO 25+67.92

EXISTING LEGEND:

- (A) EXISTING SUB-BASE GRANULAR MAT'L 6" OR STABILIZED SUB-BASE 4"
- (B) EXISTING HMA SHOULDERS
- (C) EXISTING PIPE UNDERDRAIN
- (D) EXISTING COMB CONC CURB AND GUTTER TYPE M-2.12
- (E) EXISTING HMA SURFACING
- (F) EXISTING P.C.C. SHOULDER
- (G) EXISTING P.C.C. BASE COURSE
- (H) EXISTING PGE WRAPPED IN FABRIC (VARIOUS LOCATIONS)
- (I) EXISTING HMA CONC SURFACE CSE, MIX D, CL I, TYPE 2 (1-3/4")
- (J) EXISTING HMA CONC SURFACE CSE, MIX E, CL I, TYPE 1 (1-3/4")
- (K) EXISTING HMA CONC SURFACE CSE, MIX B, TYPE 1 (2-1/4")
- (L) EXISTING CONCRETE BARRIER
- (M) EXISTING STEEL PLATE BEAM GUARD RAIL TO BE REMOVED
- (N) EXISTING RETAINING WALL

PROPOSED LEGEND:

- (1) PROPOSED HMA SHOULDER, 10"
- (2) PROPOSED COMB CONC CURB AND REM & REPLACE
- (3) PROPOSED STEEL PLATE BEAM GUARD RAIL, TYPE A
- (4) PROPOSED CONCRETE RETAINING WALL (SEE RETAINING WALL PLAN FOR TYPICAL SECTION)
- (5) PROPOSED SUB-BASE GRANULAR MATERIAL, TY B, 6" & VARIES
- (6) HMA SHOULDER, 6"
- (7) TYPE B GUTTER

FILE NAME =	USER NAME = 3698	DESIGNED - AAC	REVISED -
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PLOT SCALE = 5:1		CHECKED - AAC	REVISED -
PLOT DATE = Thursday, December 11, 2008		DATE - 12/12/2008	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

SCALE: NONE SHEET NO. 4 OF 4 SHEETS STA. 10+00.00 TO STA. 25+67.92

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2007-057 T	COOK	60	8
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D93	

PROPOSED STRUCTURE TABLE

Structure No.	Sta.	Offset	LT/RT	Type	Flat Top	RIM	IE (W)	IE (E)	IE (N)	IE (S)
1	10+43.86	22.93	RT	CB TC T20F&G	X	576.92			572.60	
2	10+43.81	13.51	RT	CB TA 4DIA T20F&G	X	577.21			572.55	572.55
3	10+06.88	41.38	LT	MAN TA 4DIA T1F CL	X	577.65		572.45	572.45	
4	10+43.66	42.00	LT	MAN TA 4DIA T1F CL	X	577.54	572.29	572.29	572.29	572.29
5	11+00.51	42.00	LT	MAN TA 5DIA T1F CL	X	577.99	572.55	572.55	572.55	
6	12+03.71	19.72	RT	CB TA 4DIA T20F&G	X	578.16			573.32	
7	12+05.11	41.91	LT	MAN TA 6DIA T1F CL	X	578.55	573.04		573.04	573.04
8	13+99.87	16.28	RT	CB TA 4DIA T20F&G	X	577.49			573.46	
9	13+99.85	42.00	LT	MAN TA 5DIA T1F CL	X	578.25		573.18	573.18	573.18
10	15+53.50	11.17	RT	CB TA 4DIA T20F&G	X	577.50			571.95	
11	15+53.48	42.00	LT	MAN TA 4DIA T1F CL		577.78	571.70		571.70	571.70
12	18+01.60	20.77	RT	CB TC T1F OL	X	577.24		571.37		
13	18+14.39	12.86	RT	CB TA 4DIA T20F&G	X	576.16	571.30		571.30	
14	18+05.01	59.84	LT	MAN TA 4DIA T1F CL		576.96		570.99	570.99	570.99
15	19+49.88	19.37	RT	CB TC T1F OL	X	575.35		570.66		
16	19+90.03	12.53	RT	CB TA 4DIA T20F&G	X	575.15	570.48		570.48	
17	19+81.67	25.96	LT	CB TA 4DIA T20F&G	X	575.72		570.27		570.27
18	19+30.04	76.87	LT	MAN TA 5DIA T1F CL		576.28	570.43	570.43	570.43	
19	20+21.08	48.50	LT	MAN TA 4DIA T1F CL	X	575.78	570.18		570.18	
20	20+82.14	38.88	LT	CB TA 4DIA T1F OL	X	575.58		569.92	569.92	569.92
21	20+78.23	57.00	LT	MAN TA 4DIA T1F CL	X	575.50	569.88		569.88	569.88
22	20+72.15	98.19	LT	MAN TA 4DIA T1F CL		575.95	569.79	569.79	569.79	569.79
23	20+86.98	100.20	LT	MAN TA 4DIA T1F CL		575.97	569.78		569.77	
24	20+83.38	12.69	RT	CB TA 4DIA T20F&G	X	574.62			570.16	
25	22+06.88	25.71	RT	CB TC T1F OL	X	574.80			570.24	
26	22+37.79	35.11	LT	INL TA T20F&G	X	574.55	570.42			
27	22+28.16	31.48	LT	CB TC T20F&G	X	574.40	570.39	570.39		
28	21+84.80	16.04	LT	CB TA 5DIA T1F CL	X	574.88	570.18	570.59	570.18	570.18
29	22+70.00	17.00	RT	CB TC T20F&G	X	573.13	570.30			
30	22+60.00	17.00	RT	CB TA 4DIA T20F&G	X	573.21	570.29	570.29		
31	21+99.19	13.41	RT	MAN TA 5DIA T1F CL	X	573.95		570.22	570.22	570.22
32	20+15.12	90.88	LT	MAN TA 6DIA T1F CL		576.01	570.04	570.04	570.04	
33	23+45.26	11.31	RT	MAN TA 4DIA T1F CL	X	574.17	571.30	571.30		571.30
34	23+44.98	21.12	RT	INL TA T20F&G	X	573.88			571.34	
35	23+74.22	24.90	RT	INL TB T10 F&G		576.80		571.56		
36	23+83.00	24.53	RT	CB TA 4DIA T10 F&G		576.80	571.52		571.52	
37	23+83.00	10.91	RT	MAN TA 4DIA T1F CL	X	574.92	571.46	571.46		571.46
38	24+43.27	21.27	RT	INL TA T20F&G	X	575.37			571.76	
39	24+42.93	11.91	RT	MAN TA 4DIA T1F CL	X	575.79	571.72	571.72		571.72
40	25+60.15	18.98	RT	CB TA 4DIA T20F&G	X	577.12	572.22			
41	51+13.70	23.28	RT	CB TC T23F&G	X	584.37			578.95	
42	51+04.40	23.00	RT	CB TA 4DIA T23F&G	X	583.37	578.85		578.85	
43	51+15.47	0.66	LT	CB TC T23F&G	X	582.37			578.67	
44	51+05.45	1.00	LT	CB TA 4DIA T23F&G	X	582.37	578.37	578.57	578.57	

NOTES:

1. ALL RIM ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR TO MATCH PAVEMENT ELEVATIONS.
2. CONTRACTOR SHALL VERIFY ALL EXISTING PIPE ELEVATIONS PRIOR TO ANY CONSTRUCTION, AND VERIFY THAT ALL PROPOSED PIPE ELEVATIONS ARE HIGHER THAN EXISTING AND PROVIDE POSITIVE DRAINAGE.
3. OFFSET MEASURED TO CENTER OF FRAME OR LID.

PROPOSED PIPE TABLE

Pipe No	Length (LF)	DIA.	CLASS A TYPE	Trench backfill (CY)	Open Trench	Jacked Pipe
1	9.5	12"	1	3.3	X	
2	52.5	12"		3.8		Jacked
3	5.0	12"	1	2.0	X	
4	33.0	12"	1	13.3	X	
5	5.0	12"	1	2.0	X	
6	52.0	12"	1	21.8	X	
7	9.5	12"	1	4.0	X	
8	99.0	12"	1	43.1	X	
9	15.5	12"	1	6.7	X	
10	55.5	12"		14.1		Jacked
11	54.5	12"		3.3		Jacked
12	13.0	12"	1	5.0	X	
13	149.5	12"	1	68.2	X	
14	10.5	12"	1	6.5	X	
15	49.5	12"		5.3		Jacked
16	13.5	12"	1	6.7	X	
17	15.0	12"	1	6.4	X	
18	71.0	12"		3.4		Jacked
19	9.0	12"	1	3.7	X	
20	41.0	12"	1	16.7	X	
21	48.5	12"		4.8		Jacked
22	18.0	12"	1	8.9	X	
23	58.0	12"	1	27.6	X	
24	70.0	12"	1	34.5	X	
25	14.0	12"	1	6.7	X	
26	42.0	12"		5.8		Jacked
27	15.0	12"	1	7.6	X	
28	5.5	12"	1	2.8	X	
29	109.5	12"	1	41.1	X	
30	53.5	12"		3.7		Jacked
31	6.0	12"	1	1.6	X	
32	47.5	12"	1	13.8	X	
33	33.0	12"	1	9.3	X	
34	14.5	12"	1	4.5	X	
35	59.5	12"	1	16.8	X	
36	10.0	12"	1	1.7	X	
37	163.0	12"		3.2		Jacked
38	10.0	12"	1	1.2	X	
39	37.0	12"	1	7.4	X	
40	8.5	12"	1	0.0	X	
41	14.0	12"	1	3.8	X	
42	59.0	12"	1	14.3	X	
43	9.0	12"	1	2.5	X	
44	114.0	12"	1	39.9	X	
45	10.0	12"	1	3.8	X	
46	24.0	12"		3.4		Jacked
47	10.0	12"	1	2.3	X	
48	126.5	12"	1	1.3	X	
49	127.0	12"	1	61.1	X	
50	9.5	12"	1	4.5	X	
51	87.0	12"	1	41.8	X	
52	11.0	12"	1	5.2	X	

STORM SEWERS TO BE CLEANED

STATION TO STATION	OFFSET	LENGTH (FT)
10+03	11+11	LT 147
	10+43	LT 85
16+49	17+96	LT 147
20+86	22+60	LT 193
22+60	23+49	LT 123
23+22	23+49	LT 31

STORM SEWERS TO BE CLEANED, HEAVY

STATION	OFFSET	LENGTH (FT)
10+43	LT	85
15+66	LT	86
20+86	LT	91

MANHOLES TO BE RECONSTRUCTED (SPECIAL)

STATION	OFFSET
20+86	LT

VIDEO TAPING OF SEWERS

STATION	OFFSET	LENGTH (FT)
10+43	LT	85
15+66	LT	86
20+86	LT	91
23+49	LT	123

REMOVING MANHOLES

STATION	OFFSET
21+99	LT

REMOVING CATCH BASINS

STATION	OFFSET
19+52	RT
20+89	LT

REMOVING INLETS

STATION	OFFSET
24+43	RT
25+61	RT
51+05	LT

FILLING MANHOLES

STATION	OFFSET
20+32	LT
20+88	LT
20+93	LT
11+01	LT

FILLING CATCH BASINS

STATION	OFFSET
10+13	RT
11+94	RT
14+10	RT
19+82	LT

FILLING INLETS

STATION	OFFSET
10+09	RT
18+04	RT
19+49	RT
22+60	RT
22+69	RT

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PLOT DATE = Friday, December 12, 2008	DATE - 12/12/2008		REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULES OF QUANTITIES	
SCALE: NONE	SHEET NO. 1 OF 2 SHEETS STA. 10+00.00 TO STA. 25+67.92

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2007-057 T	COOK	60	9
FED. ROAD DIST. NO.				ILLINOIS FED. AID PROJECT
				CONTRACT NO. 60D93

PAVEMENT PATCHING

STATION	TO STATION	OFFSET	ITEM	PATCHING AREA (SY)	DOWEL BARS (EA)	#10 TIE BARS (EA)	#6 TIE BARS (EA)	HMA OVER PATCH AREA (SY)	HMA SURFACE COURSE MIX D, N150 (SY)	SAW CUTS (FT)
EB I-290, SB I-90/I-94 RAMP										
10+00.0	12+10.0	LT	CLASS B PATCHES, TYPE IV, 10 INCH	93.5			111			218.3
10+00.0	12+10.0	LT	CLASS B PATCHES, TYPE IV, 10 INCH	281.0	140	10	105		309.1	234.9
13+94.8	15+68.5	LT	CLASS B PATCHES, TYPE IV, 10 INCH	77.2			93			181.7
13+94.8	15+68.5	LT	CLASS B PATCHES, TYPE IV, 10 INCH	231.5	120	10	87		254.7	197.7
17+89.0	20+96.0	LT	CLASS B PATCHES, TYPE IV, 10 INCH	133.3			160			326.9
17+89.0	20+96.0	LT	CLASS B PATCHES, TYPE IV, 10 INCH	414.9	200	10	154		456.4	335.2
10+38.7	10+48.7	RT	CLASS D PATCHES, TYPE III, 10 INCH	17.0				18.7		40.6
10+38.7	10+48.7	RT	CLASS B PATCHES, TYPE II, 10 INCH	12.2	10	10	5		13.4	32.0
11+89.2	11+99.2	RT	CLASS D PATCHES, TYPE III, 10 INCH	17.1				18.8		40.3
11+89.2	11+99.2	RT	CLASS B PATCHES, TYPE II, 10 INCH	12.6	10	10	5		13.9	32.8
11+99.2	12+09.2	RT	CLASS D PATCHES, TYPE III, 10 INCH	17.1				18.8		40.3
11+99.2	12+09.2	RT	CLASS B PATCHES, TYPE II, 10 INCH	12.6	10	10	5		13.9	32.8
13+94.9	14+04.9	RT	CLASS D PATCHES, TYPE II, 10 INCH	7.3				8.0		23.5
13+94.9	14+04.9	RT	CLASS B PATCHES, TYPE II, 10 INCH	13.4	10	10	5		14.7	34.1
14+04.9	14+14.9	RT	CLASS D PATCHES, TYPE II, 10 INCH	7.3				8.0		22.7
14+04.9	14+14.9	RT	CLASS B PATCHES, TYPE II, 10 INCH	13.4	10	10	5		14.7	34.2
15+48.5	15+58.5	RT	CLASS B PATCHES, TYPE III, 10 INCH	15.1	10	10	5		16.6	33.6
15+58.5	15+68.5	RT	CLASS B PATCHES, TYPE III, 10 INCH	15.1	10	10	5		16.6	33.5
17+97.7	18+07.7	RT	CLASS B PATCHES, TYPE II, 10 INCH	12.7	10	10	5		14.0	33.1
18+07.7	18+17.8	RT	CLASS B PATCHES, TYPE II, 10 INCH	12.7	10	10	5		14.0	32.8
19+85.2	19+97.8	RT	CLASS B PATCHES, TYPE III, 10 INCH	15.3	10	10	6		16.8	34.6
21+81.3	22+03.8	RT	CLASS B PATCHES, TYPE IV, 10 INCH	29.0	10	10	11		31.9	45.9
21+81.3	22+03.8	LT	CLASS B PATCHES, TYPE IV, 10 INCH	29.0	10	10	11		31.9	45.9
19+88.6	20+82.0	LT	CLASS D PATCHES, TYPE IV, 10 INCH	126.8				139.5		228.3
20+76.8	20+97.0	LT	CLASS D PATCHES, TYPE IV, 10 INCH	29.7				32.7		49.9
20+77.8	20+88.3	RT	CLASS B PATCHES, TYPE II, 10 INCH	12.9	10		5		14.2	32.6
21+94.0	22+43.8	LT	CLASS D PATCHES, TYPE IV, 10 INCH	54.5				60.0		108.0
22+02.3	22+40.6	LT	CLASS B PATCHES, TYPE III, 10 INCH	23.4	30	10	19		25.7	52.2
23+40.3	24+48.0	RT	CLASS B PATCHES, TYPE IV, 10 INCH	119.7	70	10	54		131.7	126.8
NB I-90/I-94 RAMP										
51+00.3	51+20.4	RT	CLASS B PATCHES, TYPE I, 10 INCH	4.5	10	10	10		5.0	24.2
50+99.9	51+20.2	RT	CLASS B PATCHES, TYPE II, 10 INCH	9.6	10	10	10		10.6	29.4

GUTTER REMOVAL

STATION	TO STATION	OFFSET	LENGTH (FT)
17+46.9	to 23+00.9	RT	554.0

COMBINATION CURB AND GUTTER REMOVAL

STATION	TO STATION	OFFSET	LENGTH (FT)
16+39.00	to 24+77.21	RT	838.2
24+77.21	to 24+97.68	RT	20.5

COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT

STATION	TO STATION	OFFSET	LENGTH (FT)
50+98	to 51+23	RT	25
50+98	to 51+23	RT	25

GUARDRAIL REMOVAL

STATION	TO STATION	OFFSET	LENGTH (FT)
19+59	to 22+37	RT	278
50+98	to 51+23	RT	25
51+65	to 52+15	LT	50

PAVED SHOULDER REMOVAL

STATION	TO STATION	OFFSET	AREA (SY)
16+38	to 23+01	RT	751.1
24+78	to 25+70	RT	74.8

EARTHWORK SUMMARY TABLE

STATION	TO STATION	CUT*	FILL*	EARTH EXCAVATION	EMBANKMENT (ADJ FOR SHRINKAGE**)	TOPSOIL REMOVAL* (UNSUITABLE)	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL***
		(SQ FT)	(SQ FT)	(CU YD)	(CU YD)	(SQ FT)	(CU YD)
	16+38.00	5.94	0.00	0.00	0.00	0.00	0.00
16+38.00	17+00.00	5.94	0.00	13.64	0.00	0.00	0.00
17+00.00	18+00.00	8.32	0.00	26.41	0.00	0.00	0.00
18+00.00	19+00.00	8.20	0.00	30.59	0.00	0.00	0.00
19+00.00	20+00.00	8.66	0.00	31.22	0.00	0.00	0.00
20+00.00	21+00.00	8.32	0.00	31.44	0.00	0.00	0.00
21+00.00	22+00.00	15.20	0.00	43.56	0.00	0.00	0.00
22+00.00	23+00.00	14.08	0.00	54.22	0.00	0.00	0.00
23+00.00	23+10.00	7.17	1.27	3.94	0.27	0.96	0.18
23+10.00	23+25.00	6.36	0.00	3.76	0.41	1.24	0.61
23+25.00	23+50.00	6.74	0.00	6.06	0.00	2.51	1.74
23+50.00	23+75.00	12.25	0.00	8.79	0.00	2.51	2.32
23+75.00	23+83.00	8.10	0.00	3.01	0.00	2.51	0.74
23+83.00	24+00.00	6.81	0.00	4.69	0.00	2.51	1.58
24+00.00	24+25.00	11.15	0.00	8.31	0.00	2.51	2.32
24+25.00	24+50.00	5.63	0.00	7.77	0.00	2.52	2.33
24+50.00	24+70.00	6.23	0.00	4.39	0.00	1.48	1.48
24+70.00	24+75.00	23.88	0.00	2.79	0.00	5.58	0.65
24+75.00	25+00.00	5.29	0.00	13.50	0.00	0.00	2.57
25+00.00	25+25.00	5.07	0.00	4.80	0.00	0.00	0.00
25+25.00	25+50.00	4.31	0.00	4.34	0.00	0.00	0.00
25+50.00	25+67.92	0.00	0.00	1.43	0.00	0.00	0.00
TOTALS				308.68	0.68		16.53

* AREA MEASURED AT END OF STATION RANGE
 ** SHRINKAGE FACTOR = 1.15
 *** ASSUME 4" OF TOPSOIL

EXIST. CURVE R1
 PI STA. = 11+23.51
 $\Delta = 2^\circ 07' 04''$ (LT)
 D = 1° 26' 09"
 R = 3,990.65'
 T = 73.76'
 L = 147.50'
 E = 0.68'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 10+49.75
 P.T. STA. = 11+97.25

EXIST. CURVE R2
 PI STA. = 16+68.76
 $\Delta = 5^\circ 31' 05''$ (RT)
 D = 3° 39' 51"
 R = 1,563.72'
 T = 75.36'
 L = 150.60'
 E = 1.81'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 15+93.40
 P.T. STA. = 17+44.00

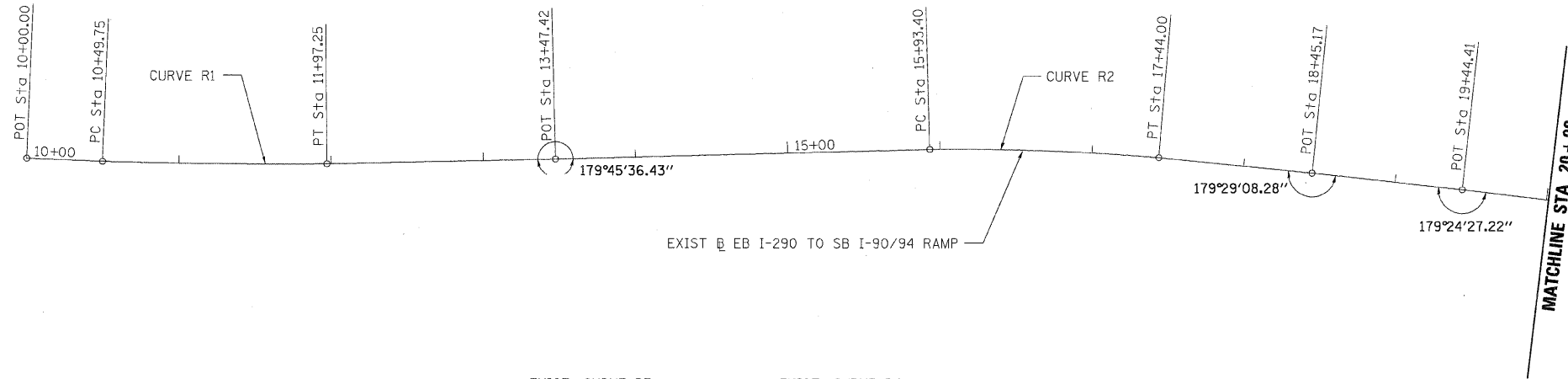


BENCHMARK:

BM #1 CHICAGO CITY STANDARD BM 57.5' SOUTH OF NORTH LINE OF LEXINGTON & 30' EAST OF WEST LINE OF LYTLE
 ELEV 593.41

BM #2 CHICAGO CITY STANDARD BM 5' NORTH OF NORTH LINE OF WASHINGTON & 50' EAST OF EAST LINE OF ASHLAND
 ELEV 595.34

GPS MON GPS MONUMENT ON SOUTH SIDE OF WASHINGTON BETWEEN OGDEN & ASHLAND
 ELEV 595.47

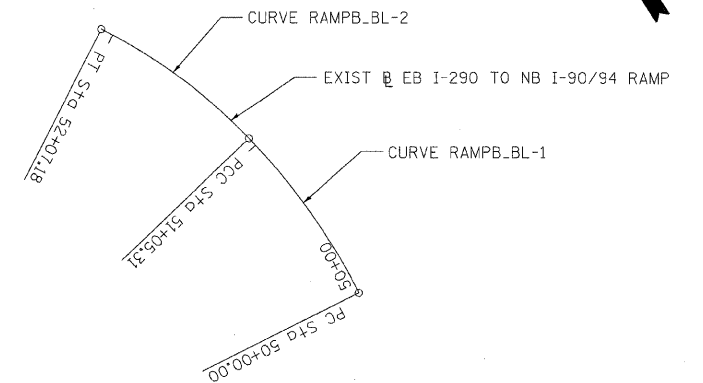
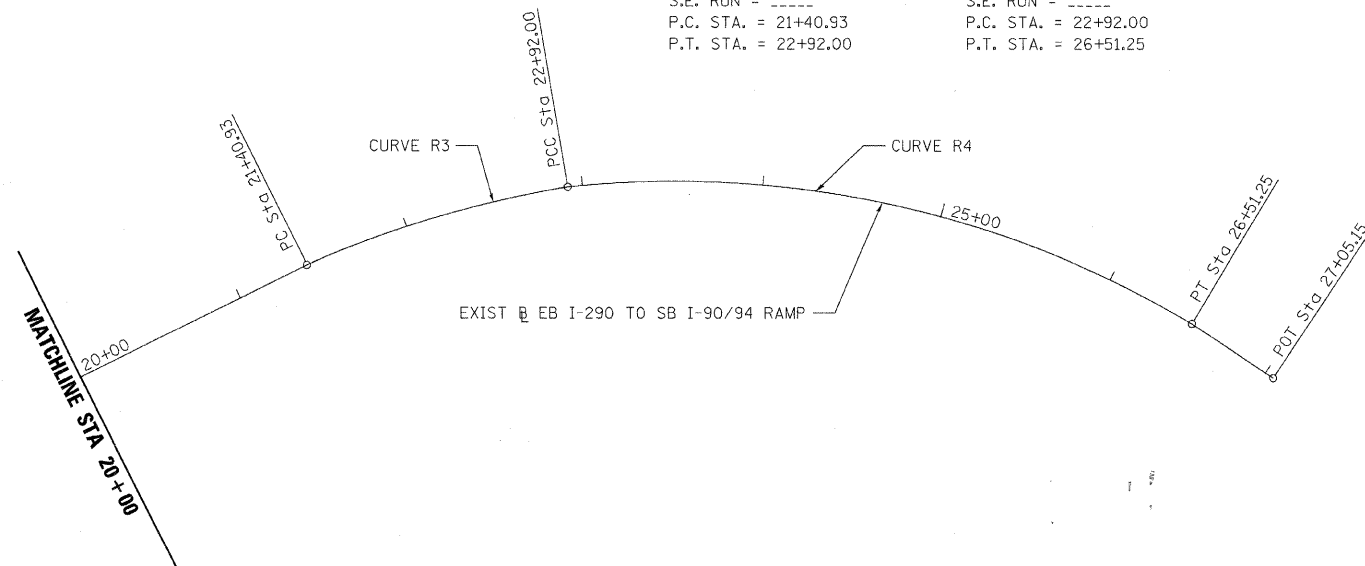


EXIST. CURVE R3
 PI STA. = 22+16.86
 $\Delta = 14^\circ 21' 36''$ (RT)
 D = 9° 30' 21"
 R = 602.74'
 T = 75.93'
 L = 151.06'
 E = 4.76'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 21+40.93
 P.T. STA. = 22+92.00

EXIST. CURVE R4
 PI STA. = 24+78.16
 $\Delta = 37^\circ 03' 18''$ (RT)
 D = 10° 18' 52"
 R = 555.50'
 T = 186.16'
 L = 359.26'
 E = 30.36'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 22+92.00
 P.T. STA. = 26+51.25

EXIST. CURVE RAMPB.BL-2
 PI STA. = 51+56.72
 $\Delta = 19^\circ 06' 22''$ (LT)
 D = 18° 45' 15"
 R = 305.51'
 T = 51.42'
 L = 101.88'
 E = 4.30'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 51+05.31
 P.T. STA. = 52+07.18

EXIST. CURVE RAMPB.BL-1
 PI STA. = 50+53.05
 $\Delta = 17^\circ 07' 32''$ (LT)
 D = 16° 15' 46"
 R = 352.31'
 T = 53.05'
 L = 105.31'
 E = 3.97'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 50+00.00
 P.T. STA. = 51+05.31



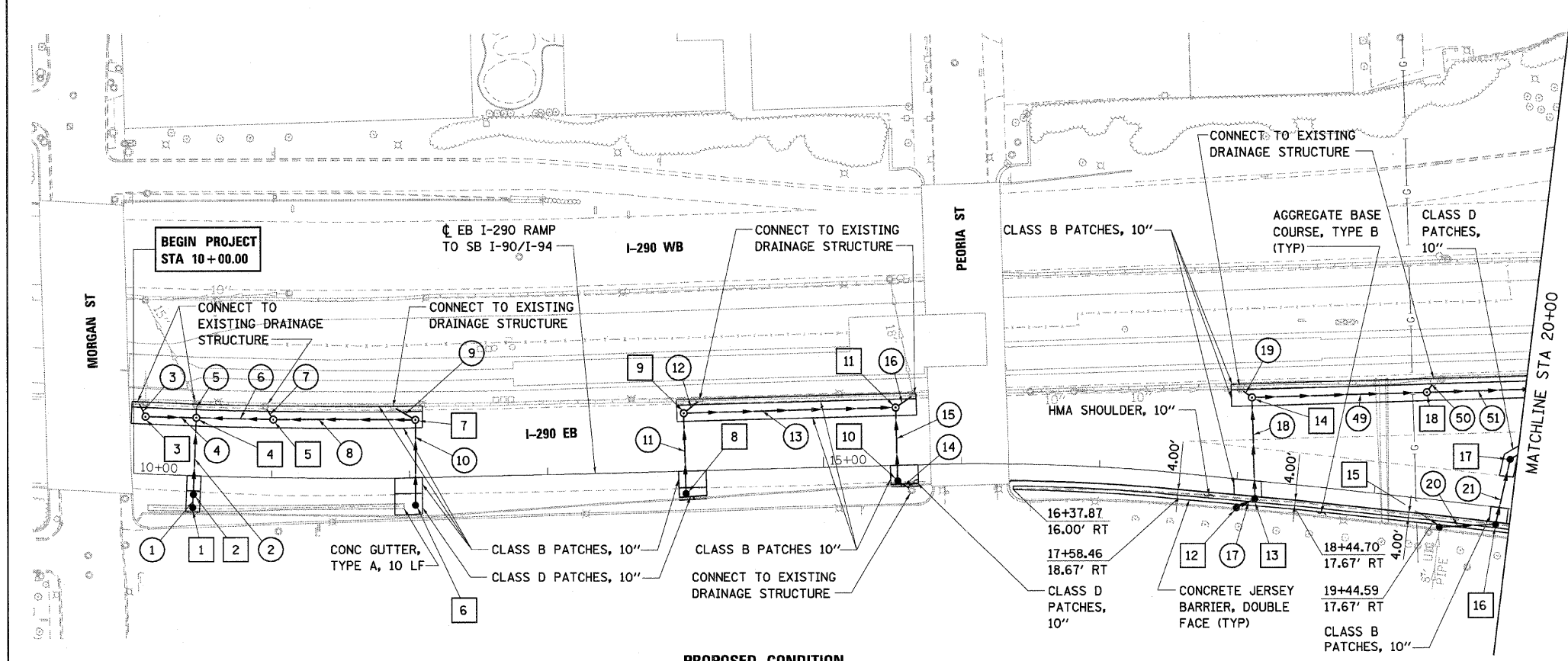
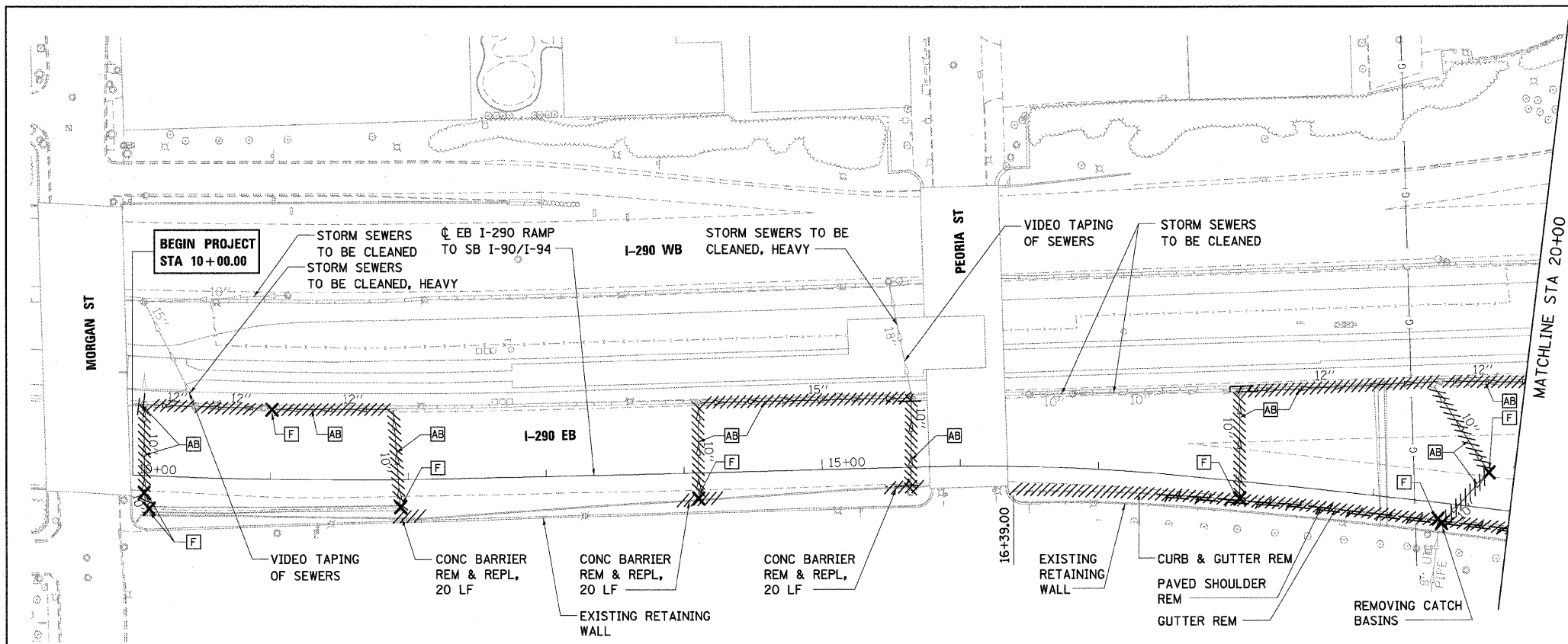
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	PLOT SCALE = 50:1	DRAWN - ED	REVISED -
	PLOT DATE = Friday, December 12, 2008	CHECKED - AAC	REVISED -
		DATE - 12/12/2008	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, TIES & BENCHMARK

SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. 10+00.00 TO STA. 25+67.92

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2007-057 T	COOK	60	11
CONTRACT NO. 60D93				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



- NOTES:**
1. CONNECT EXISTING STORM SEWER TO PROPOSED DRAINAGE STRUCTURE.
 2. SEE RETAINING WALL PLANS FOR EXACT DIMENSIONS OF SHOULDERS.
 3. SEE SHEET 9, SCHEDULE OF QUANTITIES FOR PIPE AND STRUCTURE TABLES.
 4. ALL EXISTING DRAINAGE STRUCTURES TO REMAIN IN SERVICE ARE TO BE CLEANED.

- LEGEND:**
- AB ABANDON STORM SEWER
 - F FILLING INLETS/CATCH BASINS/MANHOLES

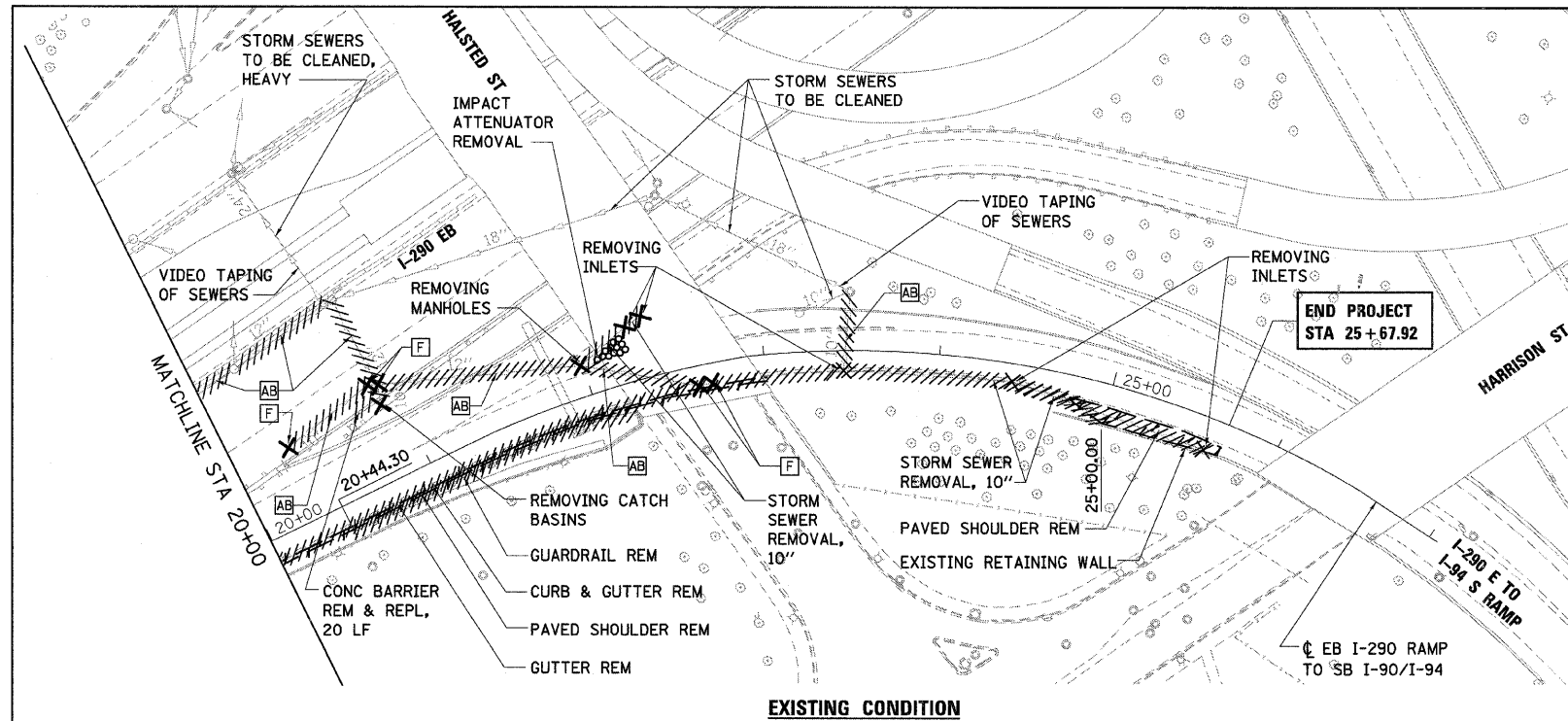
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

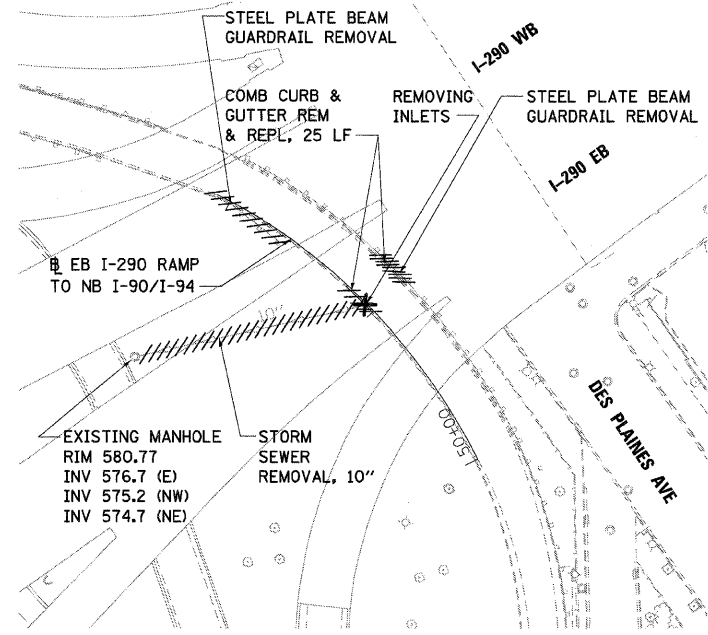
EXISTING AND PROPOSED PLAN

SCALE: 1"=50' SHEET NO. 1 OF 2 SHEETS STA. 10+00.00 TO STA. 25+67.92

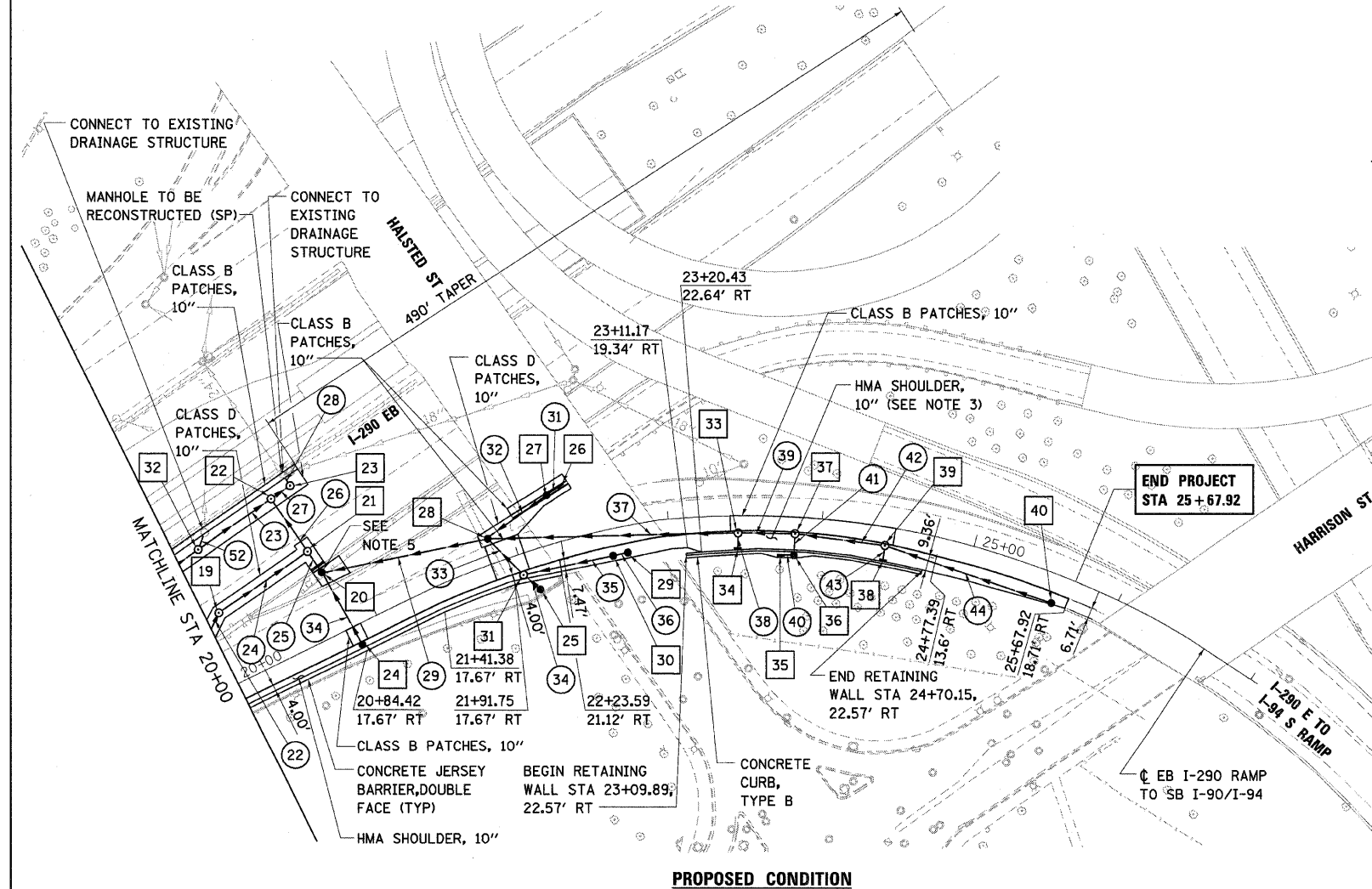
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2007-057 T	COOK	60	12
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D93	



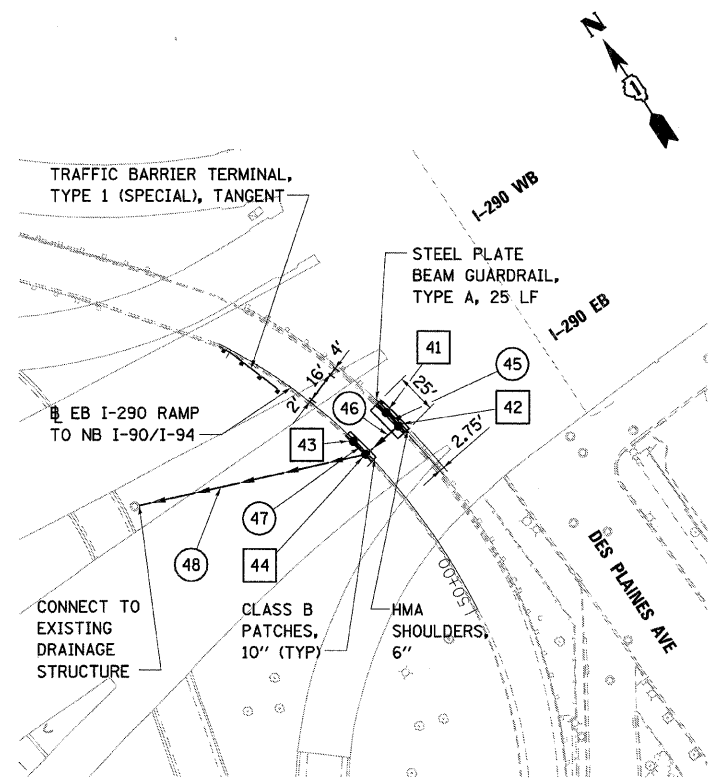
EXISTING CONDITION



EXISTING CONDITION



PROPOSED CONDITION



PROPOSED CONDITION

NOTES:

1. CONNECT EXISTING STORM SEWER TO PROPOSED DRAINAGE STRUCTURE.
2. SEE RETAINING WALL PLANS FOR EXACT DIMENSIONS OF SHOULDERS.
3. SEE SHEET 9, SCHEDULE OF QUANTITIES FOR PIPE AND STRUCTURE TABLES.
4. ALL EXISTING DRAINAGE STRUCTURES TO REMAIN IN SERVICE ARE TO BE CLEANED.
5. GUARDRAIL POST BEHIND BARRIER WALL SHALL BE REMOVED FOR STORM SEWER CONSTRUCTION. COMPLETE REMOVAL OF THESE POSTS SHALL BE INCLUDED IN THE COST OF STORM SEWER.

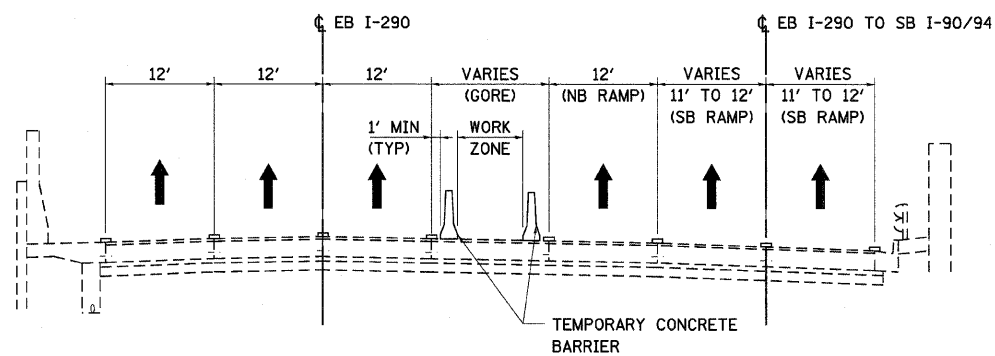
LEGEND:

- AB ABANDON STORM SEWER
- F FILLING INLETS/CATCH BASINS/MANHOLES

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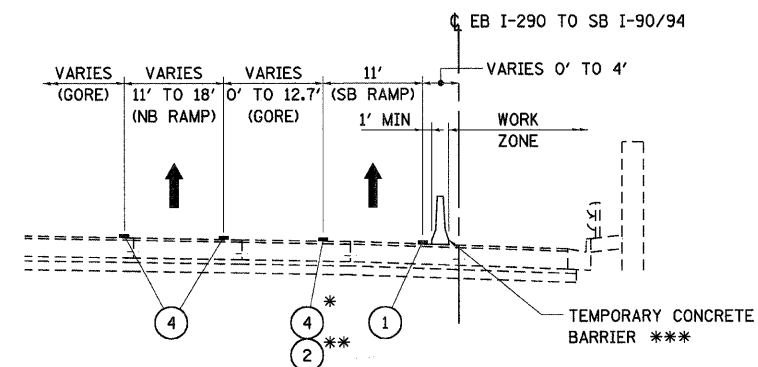
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING AND PROPOSED PLAN		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: 1"=50'		290	2007-057 T	COOK	60	13
SHEET NO. 2 OF 2 SHEETS		STA. 10+00.00 TO STA. 25+67.92		CONTRACT NO. 60D93		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						



PROPOSED MOT STAGE 1A - EB I-290 MAINLINE AND RAMP TO I-90/94

STA 17+58 TO STA 21+00
LOOKING EASTBOUND



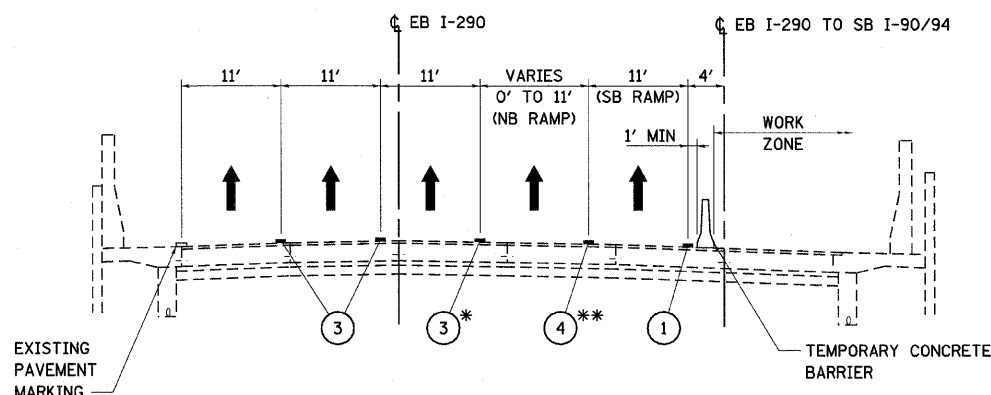
PROPOSED MOT STAGE 1B - EB I-290 RAMP TO NB AND SB I-90/94

STA 17+54 TO STA 26+51
LOOKING EASTBOUND

* PROPOSED ONLY FROM STA 17+54 TO STA 22+09

** PROPOSED ONLY FROM STA 22+09 TO STA 26+51

*** TEMPORARY CONC BARRIER STA 17+54 TO STA 24+77 AND
TYPE II BARRICADE OR DRUM STA 24+77 TO STA 26+51



PROPOSED MOT STAGE 1B - EB I-290 MAINLINE

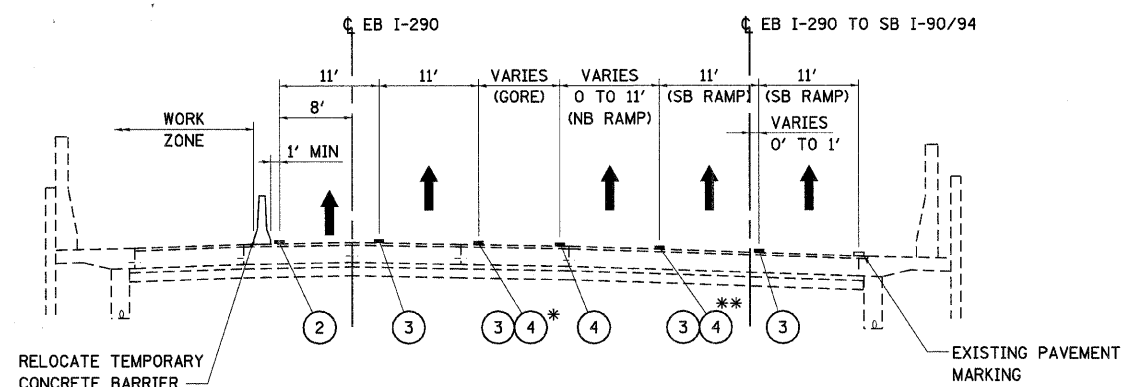
STA 8+15 TO STA 17+54
LOOKING EASTBOUND

* PROPOSED ONLY FROM STA 8+15 TO STA 14+69

** PROPOSED ONLY FROM STA 14+69 TO STA 17+54

MOT PAVEMENT MARKING LEGEND:

- ① PAVEMENT MARKING TAPE, TYPE III 4" (WHITE)
- ② PAVEMENT MARKING TAPE, TYPE III 4" (YELLOW)
- ③ PAVEMENT MARKING TAPE, TYPE III 5" (WHITE, 10' DASH - 30' SKIP)
- ④ PAVEMENT MARKING TAPE, TYPE III 8" (WHITE)
- ⑤ PAVEMENT MARKING TAPE, TYPE III 12" (WHITE)



PROPOSED MOT STAGE 2 - EB I-290 MAINLINE

STA 4+40 TO STA 20+98
LOOKING EASTBOUND

* USE PAVEMENT MARKING TAPE, TY III, 5" (③) FROM STA 4+40 TO STA 14+69
AND PAVEMENT MARKING, 8" TAPE, TY III (④) FROM STA 17+54 TO END

** USE PAVEMENT MARKING TAPE, TY III, 5" (③) FROM STA 4+40 TO STA 14+69
AND PAVEMENT MARKING, 8" TAPE, TY III (④) FROM STA 14+69 TO STA 20+98

LEGEND:

- EXISTING PAVEMENT MARKING
- - - TEMPORARY PAVEMENT MARKING OR PAVEMENT MARKING TAPE, TYPE III
- ⊠ PLASTIC DRUMS @
50' C-C WITH STEADY BURN LIGHTS
100' C-C ON TANGENTS
50' C-C ON TAPERS AND LANE SHIFTS
25' C-C ON RAMP GORES
- ➔ TRAFFIC DIRECTION
- ▬ TEMPORARY CONCRETE BARRIER

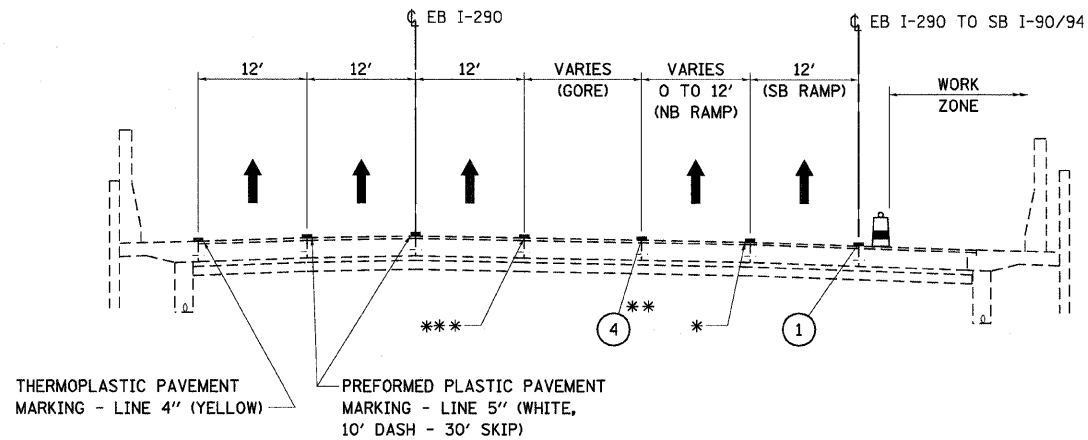
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PLOT DATE = Thursday, December 11, 2008		CHECKED - AAC	REVISED -
		DATE - 12/12/2008	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS - SHEET 1 OF 2**

SCALE: NONE SHEET NO. 1 OF 9 SHEETS STA. 10+00.00 TO STA. 25+67.92

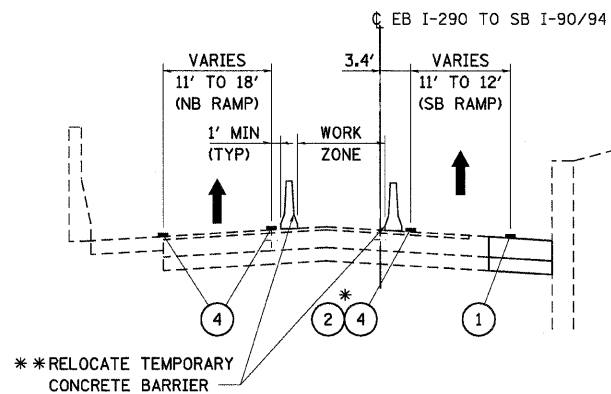
F.A.I. RTE. 290	SECTION 2007-057 T	COUNTY COOK	TOTAL SHEETS 60	SHEET NO. 14
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D93	



PROPOSED MOT STAGE 3 - EB I-290 MAINLINE AND RAMP TO I-90/94

STA 4+40 TO STA 18+45
LOOKING EASTBOUND

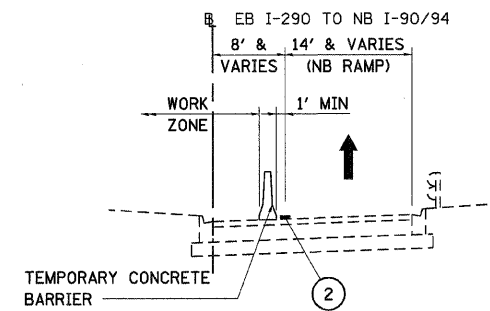
- * PREFORMED PLASTIC PAVEMENT MARKING - LINE 5" (WHITE, 10' DASH - 30' SKIP) STA 4+40 TO STA 14+69
- * THERMOPLASTIC PAVEMENT MARKING, WHITE LINE, 8 INCH STA 14+69 TO STA 18+45
- ** PROPOSED FROM STA 17+62 TO STA 18+45
- *** PREFORMED PLASTIC PAVEMENT MARKING - LINE 5" (WHITE, 10' DASH - 30' SKIP) STA 4+40 TO STA 14+69
- *** THERMOPLASTIC PAVEMENT MARKING, WHITE LINE, 8 INCH STA 17+62 TO END



PROPOSED MOT STAGE 3 - EB I-290 RAMP TO I-90/94

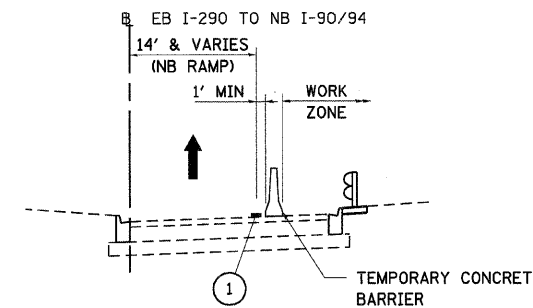
STA 18+45 TO STA 24+78
LOOKING SOUTHBOUND

- * PAVEMENT MARKING TAPE, TY III, 8" FROM STA 18+45 TO STA 22+06 AND PAVEMENT MARKING TAPE, TY III, 4" FROM STA 22+06 TO STA 24+78
- ** RELOCATE TEMPORARY CONC BARRIER STA 20+87 TO STA 22+06 AND TYPE II BARRICADE FROM STA 22+06 TO STA 24+78



PROPOSED MOT STAGE 1 - EB I-290 RAMP TO NB I-90/94

STA 50+10 TO STA 52+16
LOOKING NORTHBOUND



PROPOSED MOT STAGE 2 - EB I-290 RAMP TO NB I-90/94

STA 50+10 TO STA 52+16
LOOKING NORTHBOUND

MOT PAVEMENT MARKING LEGEND:

- ① PAVEMENT MARKING TAPE, TYPE III 4" (WHITE)
- ② PAVEMENT MARKING TAPE, TYPE III 4" (YELLOW)
- ③ PAVEMENT MARKING TAPE, TYPE III 5" (WHITE, 10' DASH - 30' SKIP)
- ④ PAVEMENT MARKING TAPE, TYPE III 8" (WHITE)
- ⑤ PAVEMENT MARKING TAPE, TYPE III 12" (WHITE)

LEGEND:

- EXISTING PAVEMENT MARKING
- - - TEMPORARY PAVEMENT MARKING OR PAVEMENT MARKING TAPE, TYPE III
- 🚚 PLASTIC DRUMS @ 50' C-C WITH STEADY BURN LIGHTS 100' C-C ON TANGENTS 50' C-C ON TAPERS AND LANE SHIFTS 25' C-C ON RAMP GORES
- ➔ TRAFFIC DIRECTION
- 🚧 TEMPORARY CONCRETE BARRIER

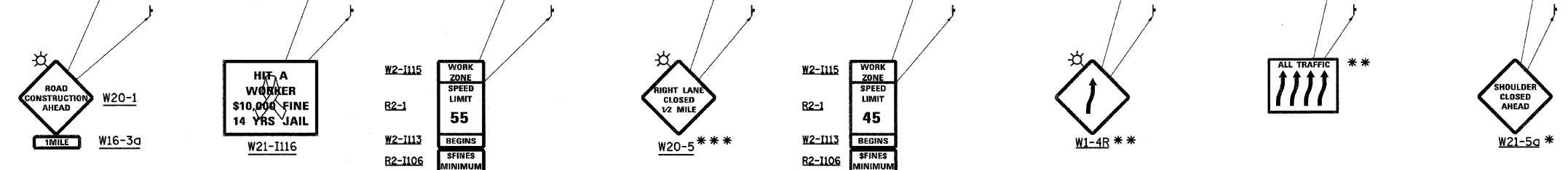
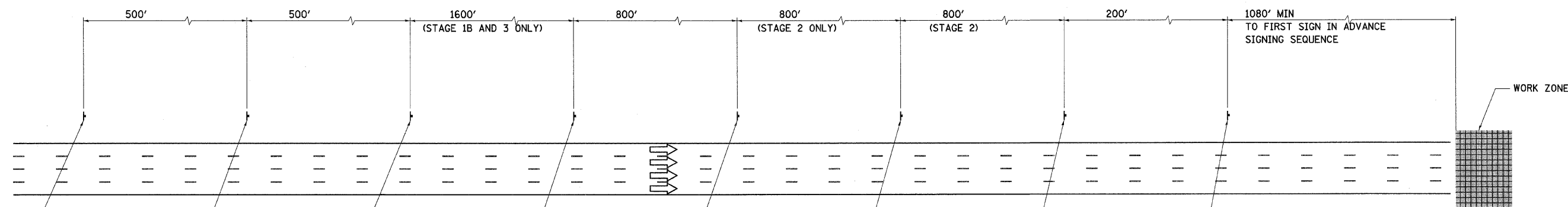
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PLOT DATE = Thursday, December 11, 2008		DATE - 12/12/2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS - SHEET 2 OF 2

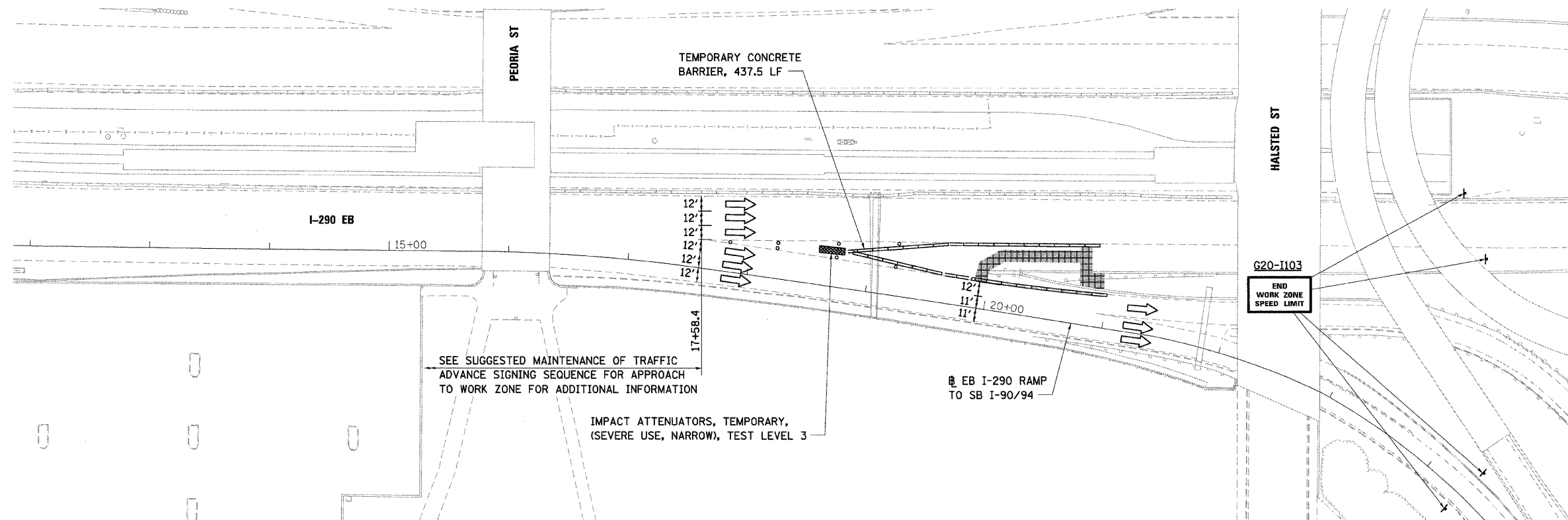
SCALE: NONE SHEET NO. 2 OF 9 SHEETS STA. 10+00.00 TO STA. 25+67.92

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2007-057 T	COOK	60	15
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D93	



* SIGN SHALL BE USED FOR STAGE 1A ONLY
 ** SIGN SHALL BE USED FOR STAGE 2 ONLY
 *** SIGN SHALL BE USED FOR STAGE 1B AND 3 ONLY

FILE NAME = S:\11-CADD\01-sh\16-D168093-SHT-STAGING-ADVANCE_SIGNING.dgn	USER NAME = 3690	DESIGNED - DG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC ADVANCE SIGNING SEQUENCE FOR APPROACH TO WORK ZONE			F.A.I. RTE. 290	SECTION 2007-057 T	COUNTY COOK	TOTAL SHEETS 60	SHEET NO. 16
PLOT SCALE = 5/8"=1'	CHECKED - AAC	DATE - 12/12/2008	REVISED -		SCALE: NONE	SHEET NO. 3 OF 9 SHEETS	STA. 10+00.00 TO STA. 25+67.92	CONTRACT NO. 60D93				
PLOT DATE = Thursday, December 11, 2008	DATE - 12/12/2008	REVISED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



LEGEND:

- WORK ZONE
- TRAFFIC DIRECTION
- PLASTIC DRUMS WITH STEADY BURN LIGHTS
100' C-C ALONG TANGENTS
50' C-C ALONG TAPERS/SHIFTS
25' C-C ALONG RAMP GORES
- TYPE III BARRICADE W/2 STEADY BURN LIGHTS
- TRAFFIC CONTROL SIGN
- ARROW BOARD

GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF TEMPORARY IMPACT ATTENUATORS. REMOVAL AND REPLACEMENT OF DAMAGED IMPACT ATTENUATORS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE FOR THE TEMPORARY ATTENUATORS.

MOT PAVEMENT MARKING LEGEND:

- ① PAVEMENT MARKING TAPE, TYPE III 4" (WHITE)
- ② PAVEMENT MARKING TAPE, TYPE III 4" (YELLOW)
- ③ PAVEMENT MARKING TAPE, TYPE III 5" (WHITE, 10' DASH - 30' SKIP)
- ④ PAVEMENT MARKING TAPE, TYPE III 8" (WHITE)
- ⑤ PAVEMENT MARKING TAPE, TYPE III 12" (WHITE)

SUGGESTED MAINTENANCE OF TRAFFIC, STAGE 1A

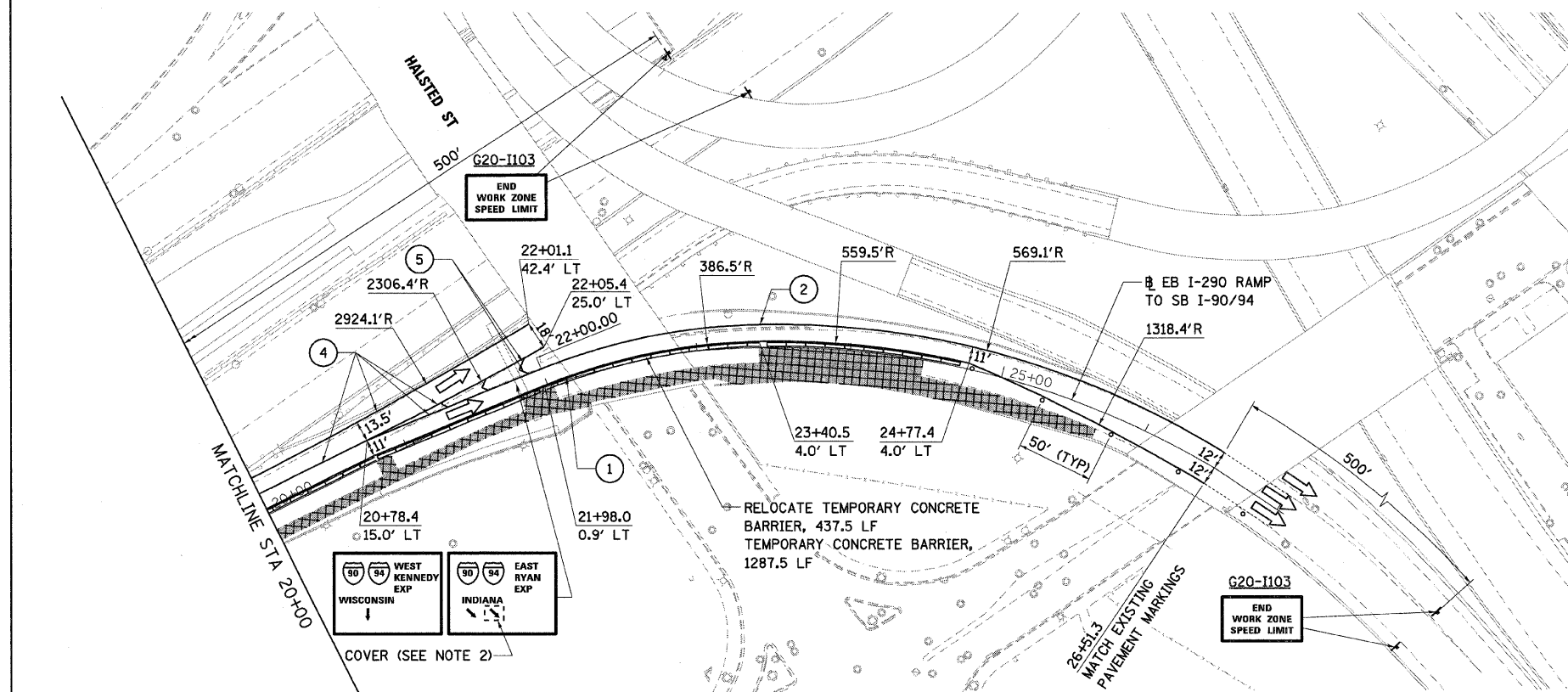
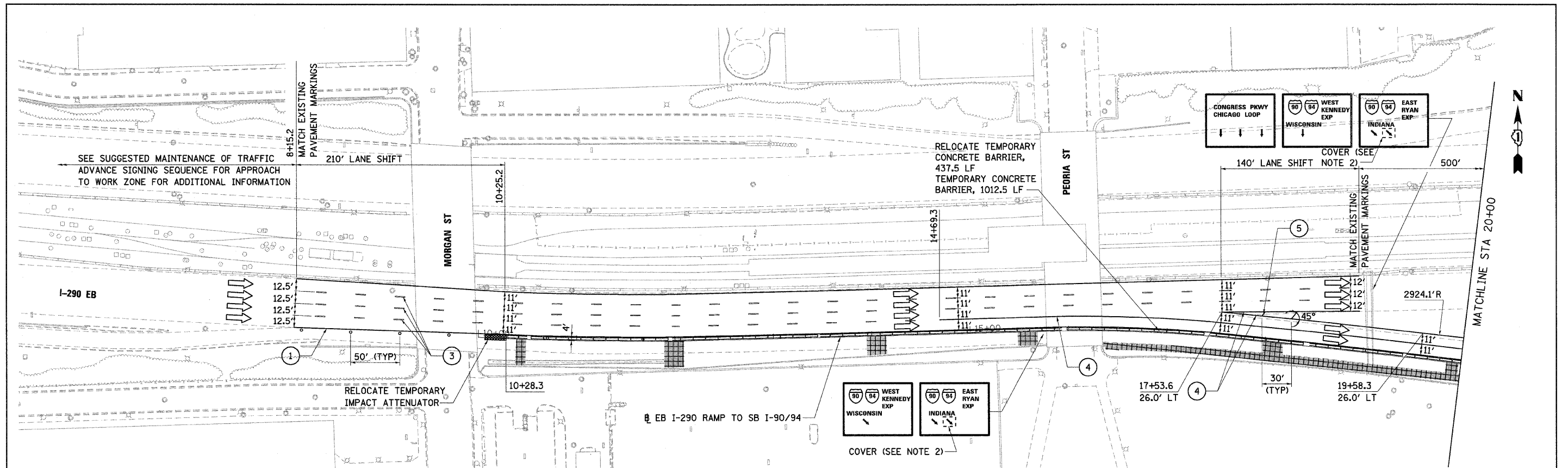
STAGING:

1. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AND SIGNING.
2. MAINTAIN EXISTING LANE CONFIGURATION AND WIDTHS.
3. UTILIZE DISTRICT DETAIL TC-18 FOR SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS.

CONSTRUCTION:

1. REMOVE EXISTING GORE PAVEMENT TO THE LIMITS SHOWN ON THE PLANS.
2. EXCAVATE JACKING PIT IN GORE AREA AND JACK STORM SEWER AND PERFORM DRAINAGE WORK IN GORE AREA.
3. REPAIR GORE PAVEMENT.

FILE NAME = S:\11-CADD\01-shet\17-D168093-SHT-STAGING-21A.dgn	USER NAME = 3698	DESIGNED - DG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC EB I-290 RAMP TO SB I-90/94 - STAGE 1A	F.A.I. RTE. 290	SECTION 2007-057 T	COUNTY COOK	TOTAL SHEETS 60	SHEET NO. 17	
PLOT SCALE = 50:1	CHECKED - AAC	REVISED -	SCALE: 1"=50'			SHEET NO. 4 OF 9 SHEETS	STA. 10+00.00 TO STA. 25+67.92	CONTRACT NO. 60D93			
PLOT DATE = Thursday, December 11, 2008	DATE - 12/12/2008	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								



SUGGESTED MAINTENANCE OF TRAFFIC, STAGE 1B

STAGING:

1. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AND SIGNING. REMOVE CONFLICTING PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKER LENSES. INSTALL PAVEMENT MARKING TAPE AS SHOWN ON THE PLANS.
2. COVER ARROWS ON THE OVERHEAD SIGNS AS SHOWN (SEE NOTE 2).
3. REDUCE EB I-290 RAMP TO SB I-90-/94 TO ONE LANE AS SHOWN.
4. UTILIZE DISTRICT DETAIL TC-18 FOR SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS.

CONSTRUCTION:

1. REMOVE EXISTING OUTSIDE SHOULDER, BARRIER WALL, CURB AND GUTTER, PAVEMENT AND GUARDRAIL TO THE LIMITS SHOWN ON THE PLANS.
2. EXCAVATE JACKING PIT AT RIGHT SHOULDER AND LANE 2 OF RAMP BETWEEN STATION 10+00 AND 23+45.26 AND JACK STORM SEWER AND INSTALL DRAINAGE STRUCTURES.
3. CONSTRUCT PROPOSED RETAINING WALL AND BARRIER WALL.
4. REPAIR OUTSIDE SHOULDER, BARRIER WALL, CURB AND GUTTER AND PAVEMENT REMOVED TO EXCAVATE THE JACKING PIT AND INSTALLATION OF THE DRAINAGE SYSTEM.
5. CONSTRUCT SHOULDER BY THE PROPOSED RETAINING WALL, BARRIER WALL, INSTALL STORM SEWER AND DRAINAGE STRUCTURES BETWEEN STA 10+00 TO 25+67.92.

NOTES:

1. SEE STAGE 1A FOR LEGEND AND GENERAL NOTES.
2. COVER USING 2 FT X 3 FT WHITE SIGN PANEL WITH RED "X", PAID FOR AS TEMPORARY INFORMATION SIGNING.

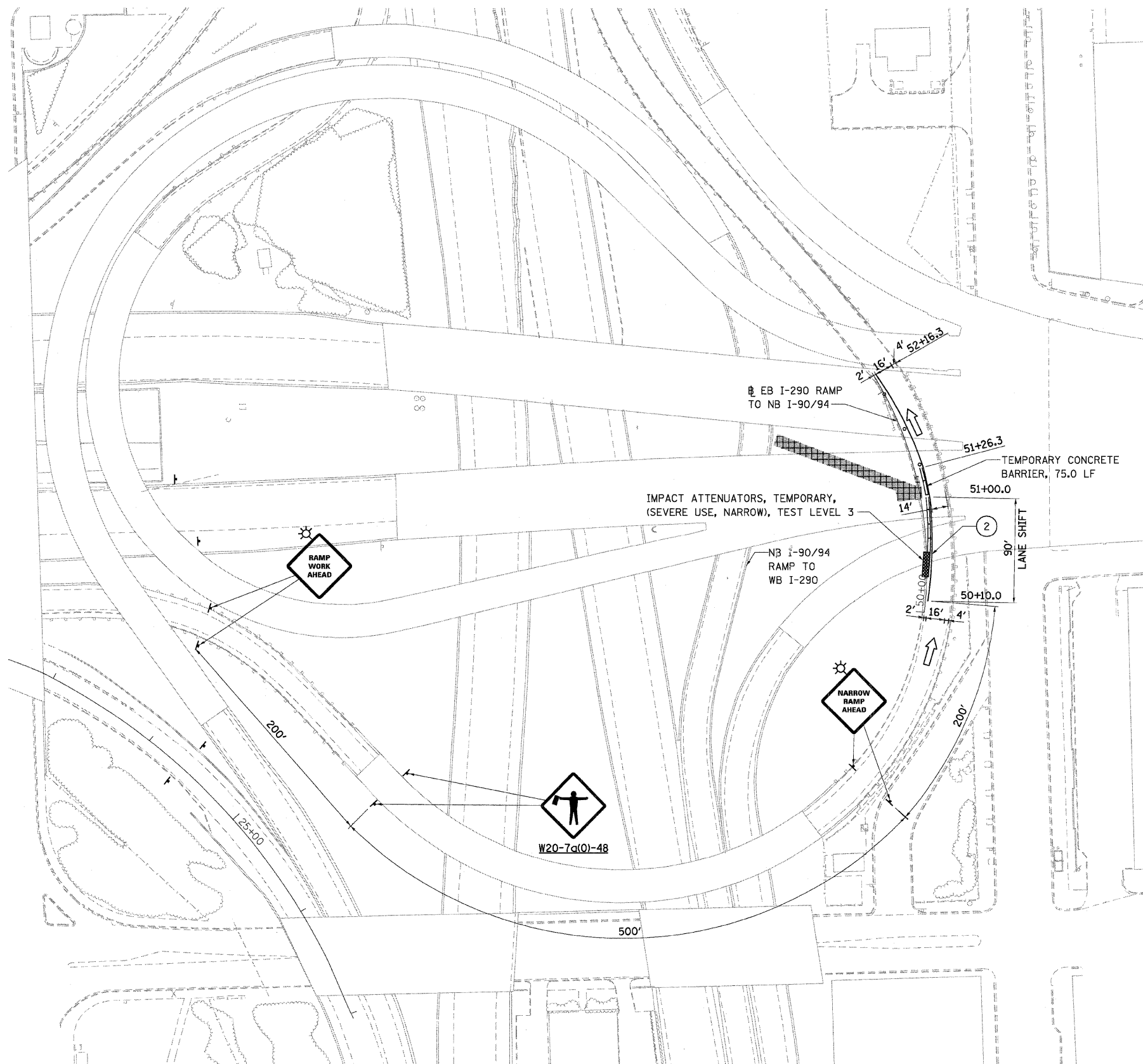
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	PLOT DATE = Thursday, December 11, 2008	DATE - 12/12/2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE OF TRAFFIC
EB I-290 RAMP TO SB I-90/94 - STAGE 1B

SCALE: 1"=50' SHEET NO. 5 OF 9 SHEETS STA. 10+00.00 TO STA. 25+67.92

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2007-057 T	COOK	60	18
CONTRACT NO. 60D93				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



SUGGESTED MAINTENANCE OF TRAFFIC, STAGE 1

STAGING:

1. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AND SIGNING.
2. SHIFT LANE TOWARDS THE OUTSIDE AS SHOWN ON THE PLANS.
3. UTILIZE DISTRICT DETAIL TC-17 FOR WORK ADJACENT TO NB I-90/94 RAMP TO WB I-290.
4. UTILIZE DISTRICT DETAIL TC-18 FOR SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS.

CONSTRUCTION:

1. REMOVE EXISTING SHOULDER AND CURB AND GUTTER TO THE LIMITS SHOWN ON THE PLANS.
2. EXCAVATE JACKING PIT IN INFIELD AREA.
3. JACK STORM SEWER, INSTALL STORM SEWER IN INFIELD AREA, AND INSTALL DRAINAGE STRUCTURES.
4. REPAIR CURB AND GUTTER AND SHOULDER REMOVED TO EXCAVATE THE JACKING PIT AND INSTALLATION OF THE DRAINAGE STRUCTURES.

NOTES:

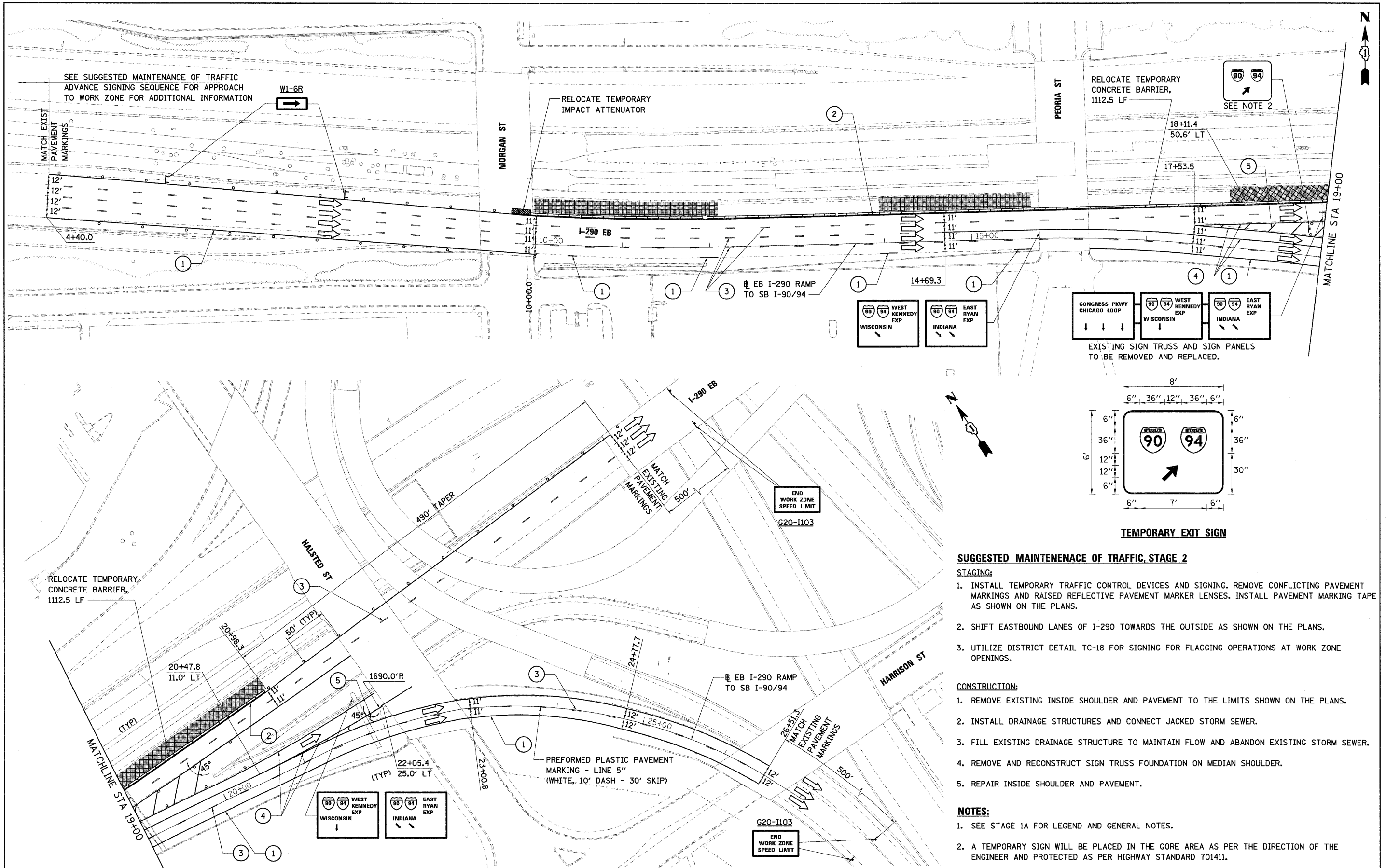
1. SEE STAGE 1A FOR LEGEND AND GENERAL NOTES.

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	PLOT SCALE = 50:1	CHECKED - AAC	REVISED -
	PLOT DATE = Thursday, December 11, 2008	DATE - 12/12/2008	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED MAINTENANCE OF TRAFFIC EB I-290 RAMP TO NB I-90/94 - STAGE 1			
SCALE: 1"=50'	SHEET NO. 6 OF 9 SHEETS	STA. 10+00.00 TO STA. 25+67.92	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2007-057 T	COOK	60	19
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60D93	



SUGGESTED MAINTENANCE OF TRAFFIC, STAGE 2

STAGING:

1. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AND SIGNING. REMOVE CONFLICTING PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKER LENSES. INSTALL PAVEMENT MARKING TAPE AS SHOWN ON THE PLANS.

2. SHIFT EASTBOUND LANES OF I-290 TOWARDS THE OUTSIDE AS SHOWN ON THE PLANS.
3. UTILIZE DISTRICT DETAIL TC-18 FOR SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS.

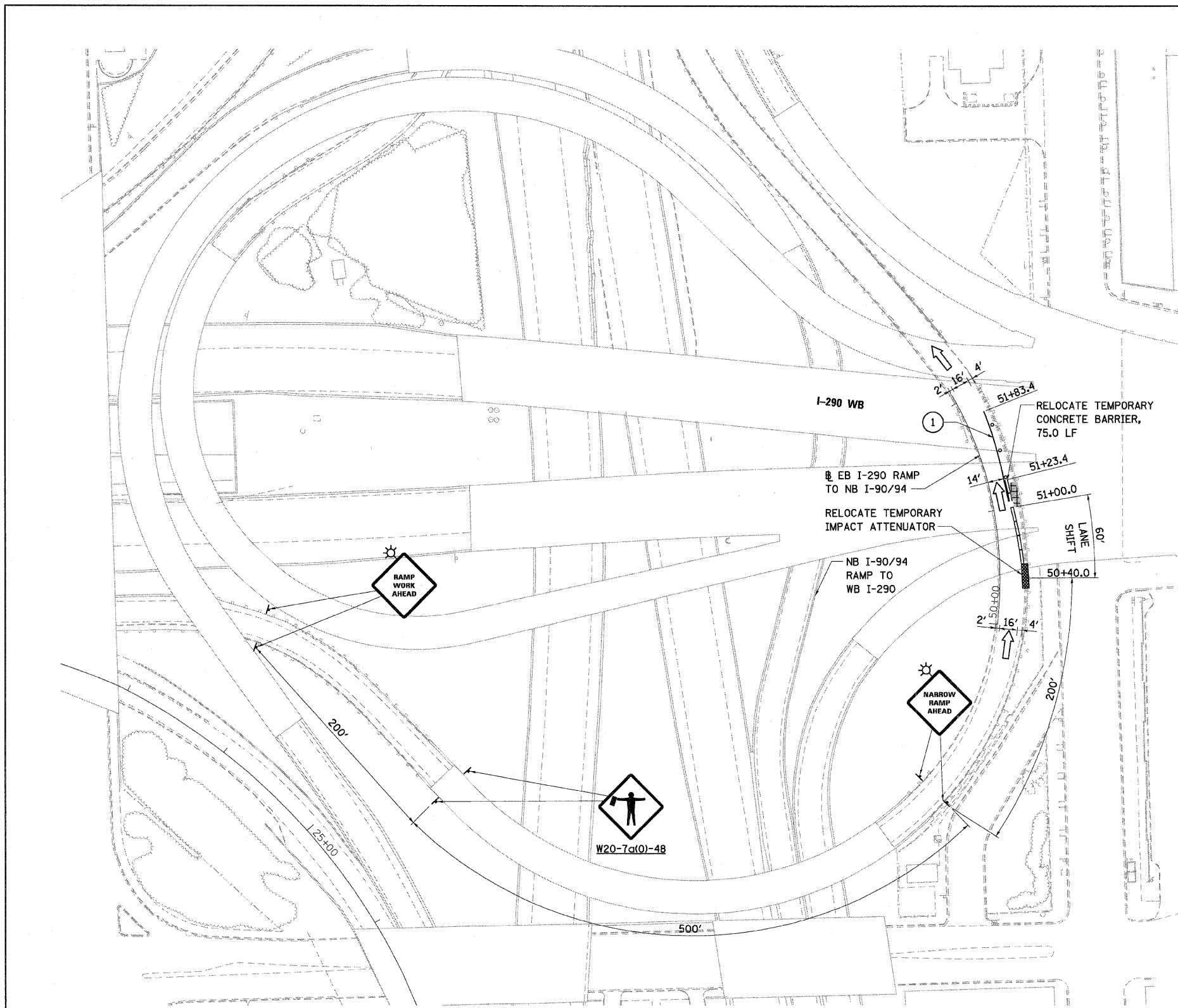
CONSTRUCTION:

1. REMOVE EXISTING INSIDE SHOULDER AND PAVEMENT TO THE LIMITS SHOWN ON THE PLANS.
2. INSTALL DRAINAGE STRUCTURES AND CONNECT JACKED STORM SEWER.
3. FILL EXISTING DRAINAGE STRUCTURE TO MAINTAIN FLOW AND ABANDON EXISTING STORM SEWER.
4. REMOVE AND RECONSTRUCT SIGN TRUSS FOUNDATION ON MEDIAN SHOULDER.
5. REPAIR INSIDE SHOULDER AND PAVEMENT.

NOTES:

1. SEE STAGE 1A FOR LEGEND AND GENERAL NOTES.
2. A TEMPORARY SIGN WILL BE PLACED IN THE GORE AREA AS PER THE DIRECTION OF THE ENGINEER AND PROTECTED AS PER HIGHWAY STANDARD 701411.

FILE NAME = S:\11-CADD\01-sh\20_0168093-SHT-STAGING	USER NAME = 3690	DESIGNED - DG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC EB I-290 RAMP TO SB I-90/94 - STAGE 2	F.A.I. RTE. = 290	SECTION = 2007-057 T	COUNTY = COOK	TOTAL SHEETS = 60	SHEET NO. = 20	
PLOT SCALE = 50:1	CHECKED - AAC	REVISED -	REVISED -			CONTRACT NO. 60D93					
PLOT DATE = Friday, December 12, 2008	DATE = 12/12/2008	REVISED -	REVISED -			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					
						SCALE: 1"=50'		SHEET NO. 7 OF 9 SHEETS		STA. 10+00.00 TO STA. 25+67.92	



SUGGESTED MAINTENANCE OF TRAFFIC, STAGE 2

STAGING:

1. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AND SIGNING.
2. SHIFT LANE TOWARDS THE INSIDE AS SHOWN ON THE PLANS.
3. UTILIZE DISTRICT DETAIL TC-17 FOR WORK ADJACENT TO NB I90/94 RAMP TO WB I-290.
4. UTILIZE DISTRICT DETAIL TC-18 FOR SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS.

CONSTRUCTION:

1. REMOVE EXISTING SHOULDER, CURB AND GUTTER, AND GUARDRAIL TO THE LIMITS SHOWN ON THE PLANS.
2. INSTALL DRAINAGE STRUCTURES AND CONNECT JACKED STORM SEWER.
3. REPAIR CURB AND GUTTER, SHOULDER AND GUARDRAIL.

NOTES:

1. SEE STAGE 1A FOR LEGEND AND GENERAL NOTES.

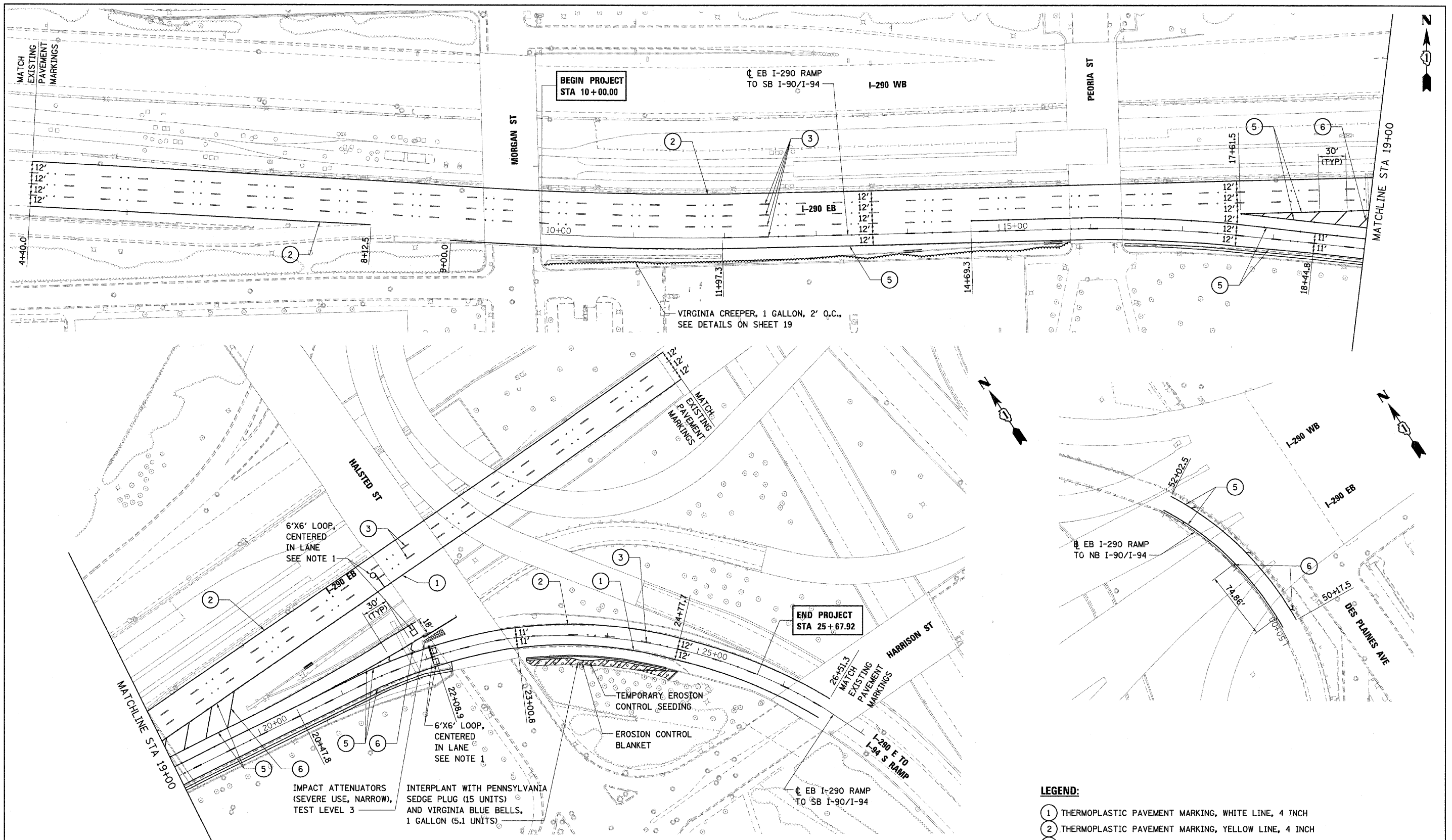
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	PLOT DATE = Thursday, December 11, 2008	DATE - 12/12/2008	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC
EB I-290 RAMP TO NB I-90/94 - STAGE 2**

SCALE: 1"=50' SHEET NO. 8 OF 9 SHEETS STA. 10+00.00 TO STA. 25+67.92

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2007-057 T	COOK	60	21
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60D93	



BEGIN PROJECT
STA 10+00.00

EB I-290 RAMP
TO SB I-90/I-94

I-290 WB

PEORIA ST

MATCHLINE STA 19+00

VIRGINIA CREEPER, 1 GALLON, 2' O.C.,
SEE DETAILS ON SHEET 19

END PROJECT
STA 25+67.92

EB I-290 RAMP
TO NB I-90/I-94

I-290 EB

DES PLAINES AVE

MATCHLINE STA 19+00

6'x6' LOOP,
CENTERED
IN LANE
SEE NOTE 1

6'x6' LOOP,
CENTERED
IN LANE
SEE NOTE 1

IMPACT ATTENUATORS
(SEVERE USE, NARROW),
TEST LEVEL 3

INTERPLANT WITH PENNSYLVANIA
SEDEGE PLUG (15 UNITS)
AND VIRGINIA BLUE BELLS,
1 GALLON (5.1 UNITS)

TEMPORARY EROSION
CONTROL SEEDING
EROSION CONTROL
BLANKET

NOTES:

- CONTRACTOR SHALL LOCATE THE EXISTING INDUCTION LOOPS AND RE-USE THE EXISTING CONDUIT/UNIT DUCT IN REPLACING THE INDUCTIVE LOOPS. THE EXISTING LEAD-IN CABLE SHALL BE REMOVED AND REPLACED WITH NEW CABLE. THE ENGINEER SHALL CONTACT TRAFFIC SYSTEMS CENTER (708) 524-2145 TWO WEEKS PRIOR TO REMOVAL AND REPLACEMENT OF INDUCTION LOOPS.

LEGEND:

- THERMOPLASTIC PAVEMENT MARKING, WHITE LINE, 4 INCH
- THERMOPLASTIC PAVEMENT MARKING, YELLOW LINE, 4 INCH
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, WHITE 30' SKIP 10' DASH, 5 INCH
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, WHITE 6' SKIP 2' DASH, 5 INCH
- THERMOPLASTIC PAVEMENT MARKING, WHITE LINE, 8 INCH
- THERMOPLASTIC PAVEMENT MARKING, WHITE LINE, 45 DEGREE DIAGONAL, 12 INCH

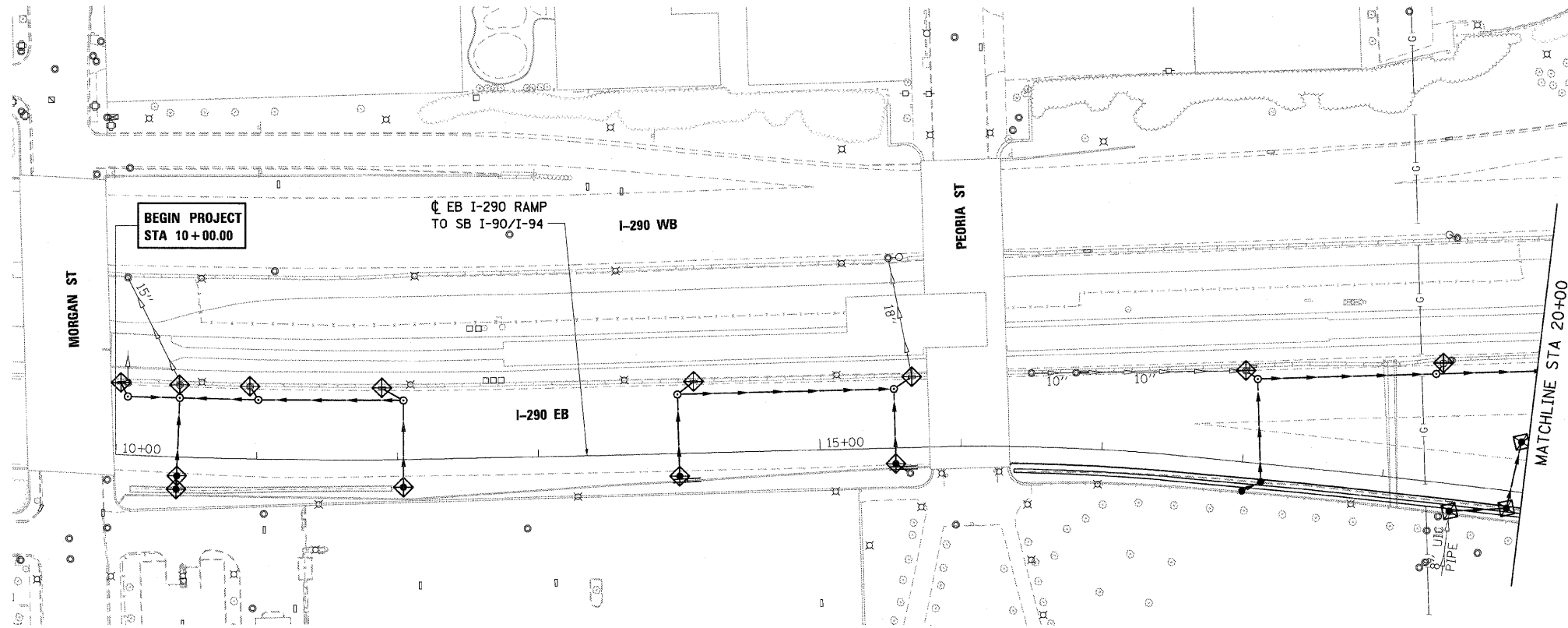
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	PLOT DATE = Thursday, December 11, 2008	DATE - 12/12/2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND LANDSCAPING PLAN

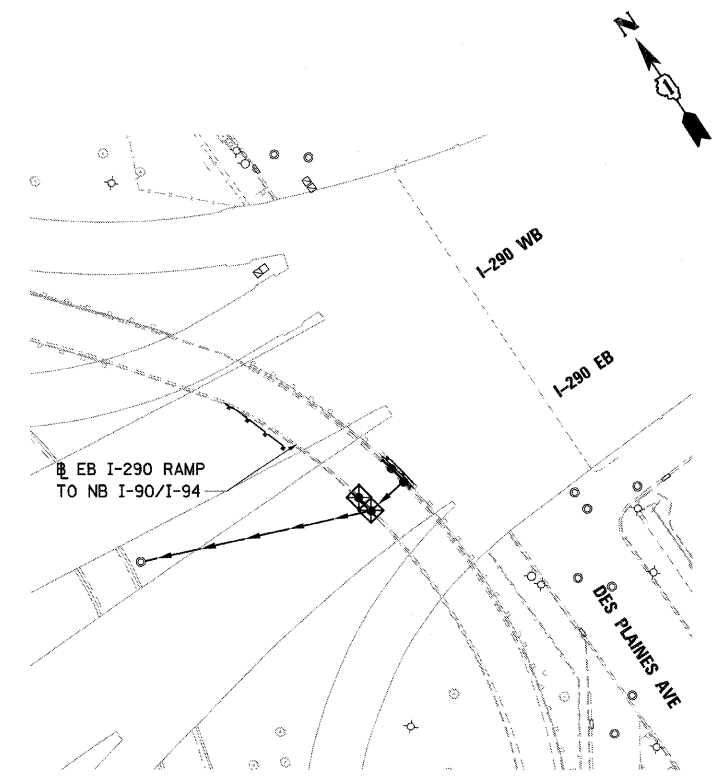
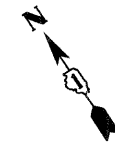
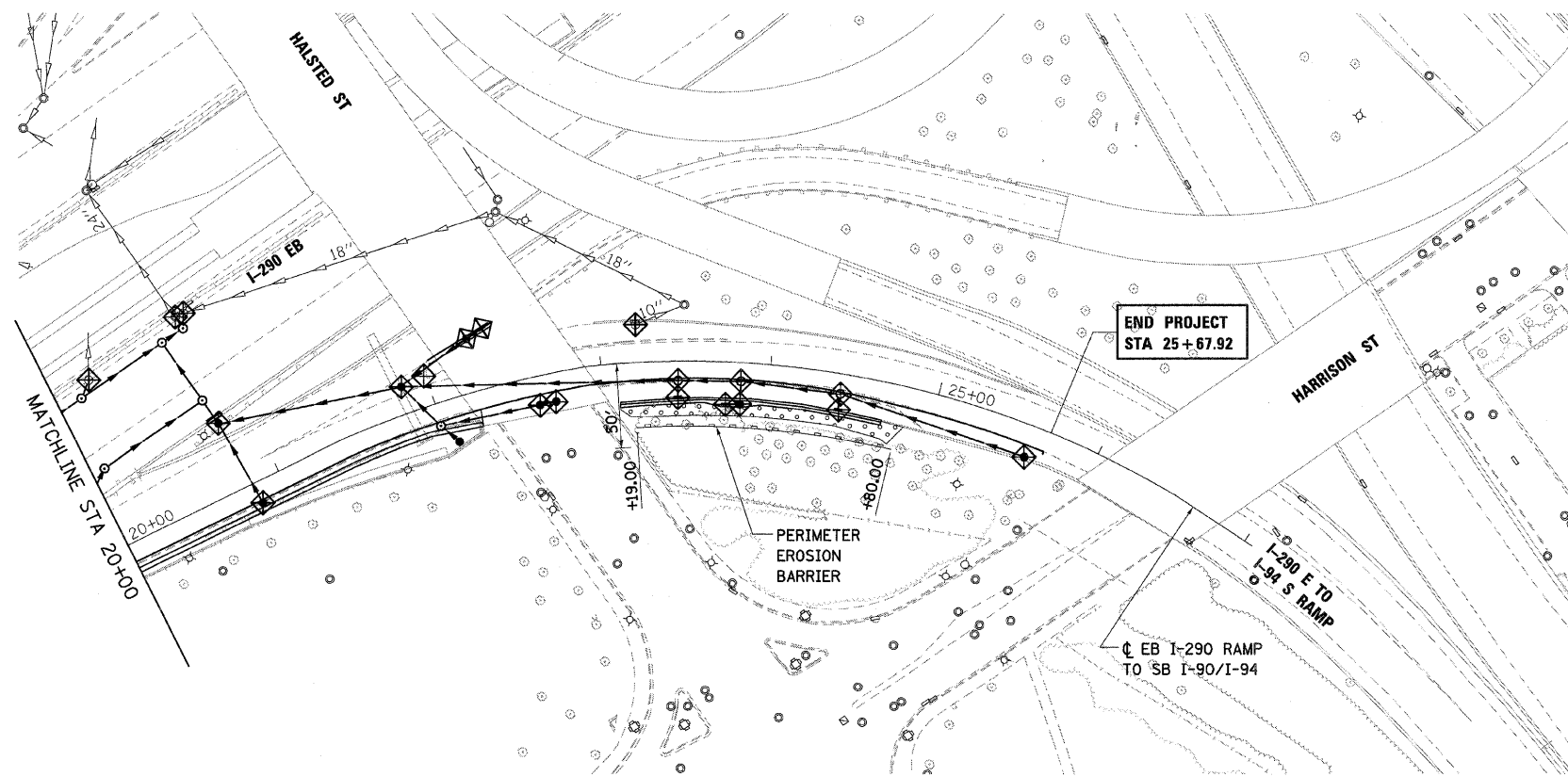
SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. 10+00.00 TO STA. 25+67.92

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2007-057 T	COOK	60	23
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D93	



LEGEND:

- TEMPORARY EROSION CONTROL SEEDING
- INLET FILTER

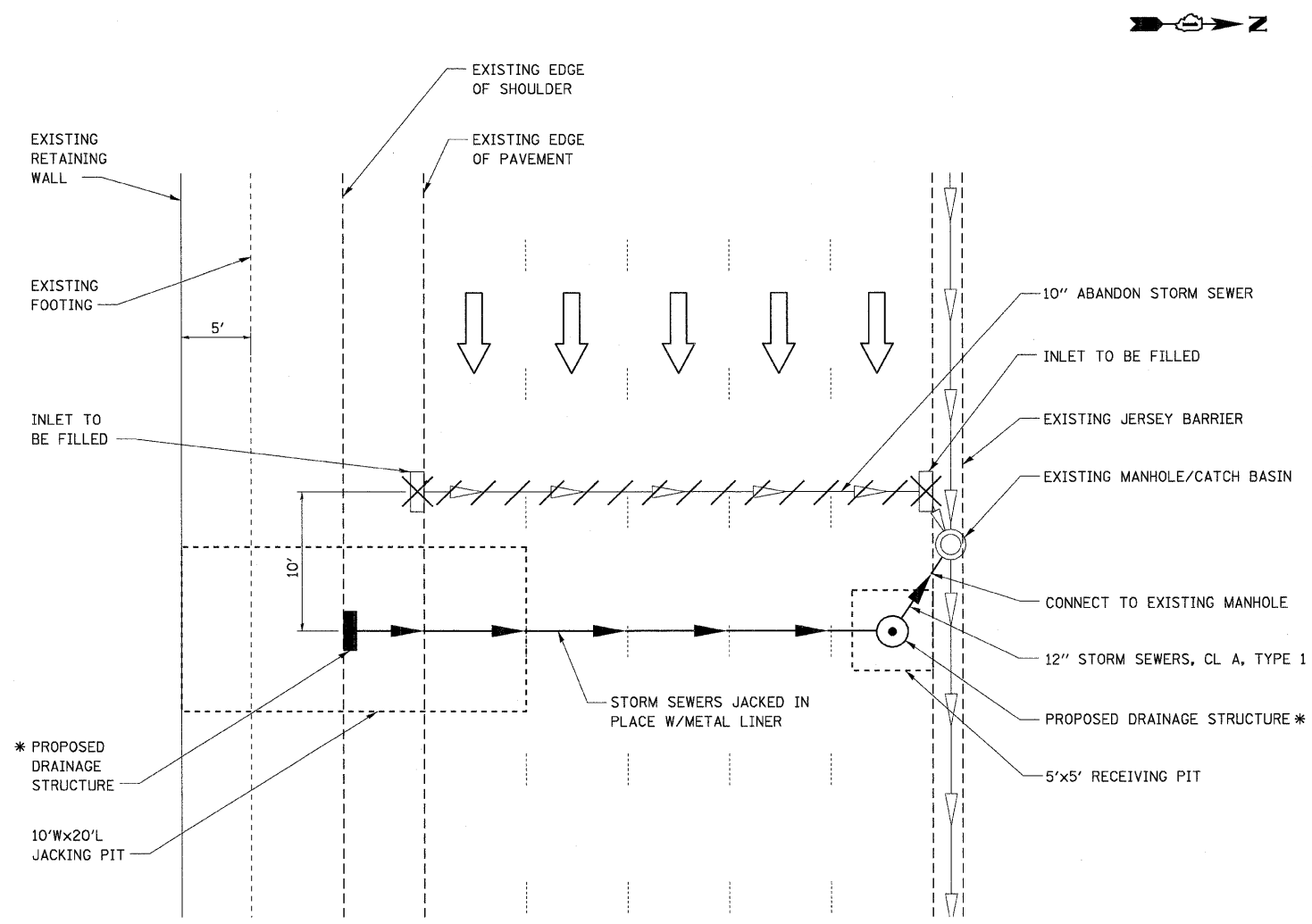


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	PLOT DATE = Thursday, December 11, 2008	DATE - 12/12/2008	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL	
SCALE: 1"=50'	SHEET NO. 1 OF 1 SHEETS
STA. 10+00.00 TO STA. 25+67.92	

F.A.I. RTE. 290	SECTION 2007-057 T	COUNTY COOK	TOTAL SHEETS 60	SHEET NO. 24
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
CONTRACT NO. 60D93				



* SEE DRAINAGE STRUCTURE TABLE FOR TYPE AND SIZE

PIPE JACKING DETAIL

NOTES:

1. WHEN EXCAVATING THE JACKING AND RECEIVING PITS, BRACED EXCAVATION SHALL BE UTILIZED.
2. PRIOR TO INSTALLATION OF THE BRACED EXCAVATION SYSTEM, THE CONTRACTOR WILL LOCATE THE EDGE OF THE FOOTING OF THE EXISTING RETAINING WALL. IT SHOULD BE NOTED THAT THE EXISTING FOOTING IS FOUNDED ON BATTERED PILES.
3. THE BRACED EXCAVATION SYSTEM SHALL BE INSTALLED WITH A MINIMUM 1'-0" CLEARANCE FROM THE EDGE OF THE FOOTING OF THE EXISTING RETAINING WALL.

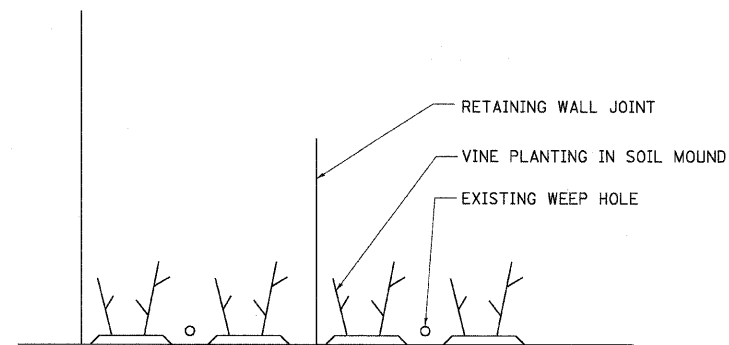
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		CHECKED - AAC	REVISED -
		DATE - 12/12/20	REVISED -
PLOT SCALE = 1st			
PLOT DATE = Thursday, December 11, 2008			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PIPE JACKING DETAIL

SCALE: NO SCALE SHEET NO. 1 OF 1 SHEETS STA. 10+00.00 TO STA. 25+67.92

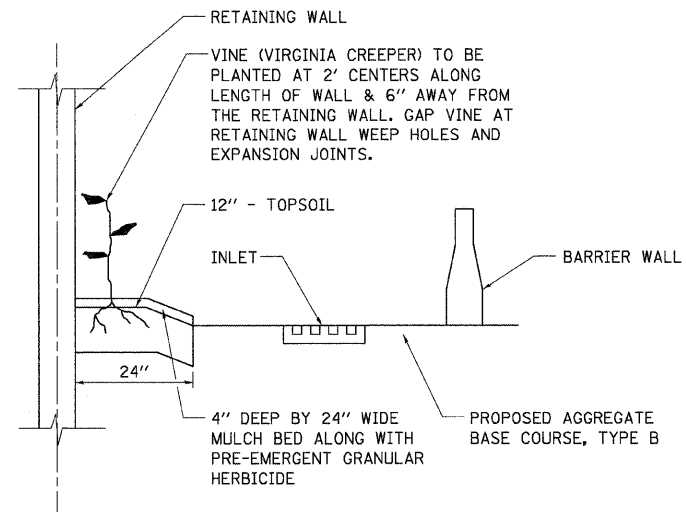
F.A. RTE. 290	SECTION 2007-057 T	COUNTY COOK	TOTAL SHEETS 60	SHEET NO. 25
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				CONTRACT NO. 60D93



VINE PLANTING DETAIL
NOT TO SCALE

NOTE:

1. SOIL MOUNDS TO BE PLACED BETWEEN EXISTING RETAINING WALL JOINTS AND EXISTING RETAINING WALL WEEP HOLES.



VINE PLANTING DETAIL
NOT TO SCALE

NOTE:

1. SEE LANDSCAPE PLANS FOR SPECIFIC LOCATIONS OF VINES.
2. MULCH BED SHALL BE PLACED AS SHOWN IN VINE PLANTING DETAIL AND ACCORDING TO IDOT STANDARD SPECIFICATION 253.11 EXCEPT THAT NO WEED BARRIER FABRIC IS REQUIRED. COST OF MULCH COVER IS INCLUDED WITH PAYMENT FOR VINE - PARTHENOCISSUS QUINQUEFOLIA (VIRGINIA CREEPER), 1-GALLON POT"
3. PRE-EMERGENT GRANULAR HERBICIDE SHALL BE PLACED IN MULCHED BEDS ACCORDING TO THE SPECIAL PROVISION.
4. PRIOR TO BACKFILL OPERATION CALL THE ROADSIDE DEVELOPMENT UNIT AT 847.705.4171.

FILE NAME =	USER NAME = 3698	DESIGNED - DG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LANDSCAPING DEATILS				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
5:\11-CADD\01-sh\27.D168093-SHT-DETAIL.dgn		DRAWN - ED	REVISED -		290	2007-057 T	COOK	60	27					
PLOT SCALE = 50:1		CHECKED - AAC	REVISED -		SCALE: 1"=50'				SHEET NO. 1 OF 1 SHEETS		STA. 10+00.00 TO STA. 25+67.92		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
PLOT DATE = Thursday, December 11, 2008		DATE - 12/12/2008	REVISED -		CONTRACT NO. 60D93									

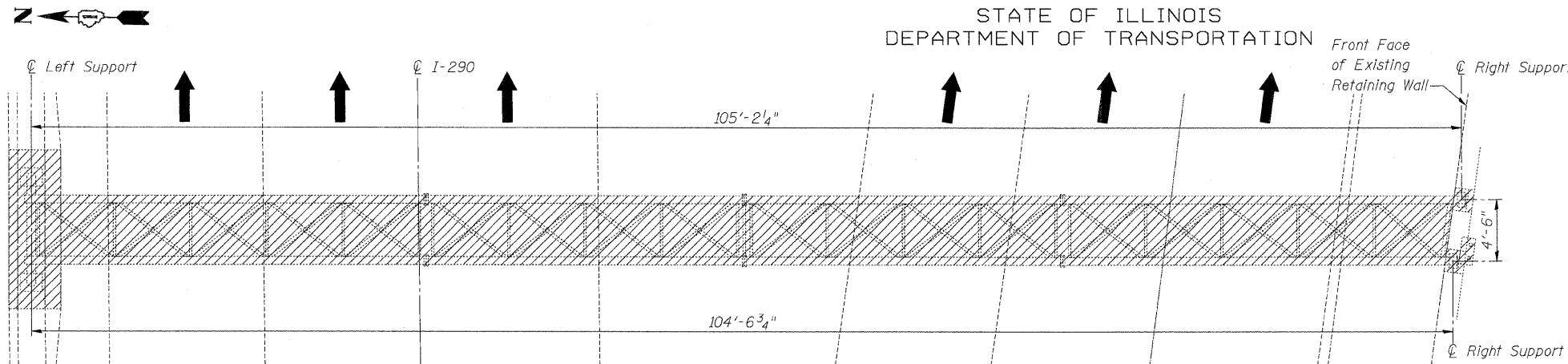
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO.
290	2007-057 T	COOK	60	28	13 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

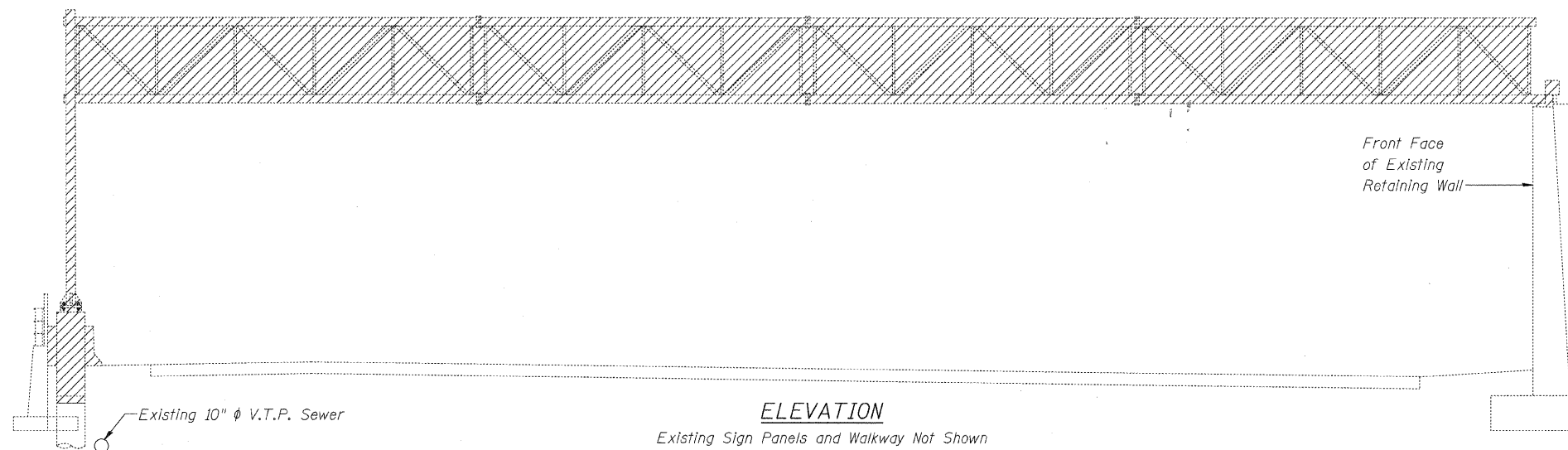
Contract #60D93

NOTES:

- Existing vertical reinforcement bars that project from the caissons into the caisson cap are to remain in place. The existing reinforcement shall be cleaned, straightened and incorporated into the new construction. Cost Included with Concrete Removal.
- Cut and grind smooth existing railing at locations shown. Paint bare steel surfaces with a 2 coat system of zinc-rich primer and top coat of epoxy paint. The zinc-rich primer shall be 3.5 to 5.0 mils dry film thickness and a color that contrasts with the steel. The epoxy paint shall be 3.0 to 6.0 mils dry film thickness and a silver grey color that matches the remaining railing paint. Cost Included with Concrete Removal.
- Horizontal reinforcing steel in barrier wall shall be cut along vertical cut limits shown.
- Existing vertical and horizontal reinforcement bars that project into the retaining wall removal area are to remain in place. The existing reinforcement shall be cleaned, straightened and incorporated into the new construction. Cost Included with Concrete Removal.
- Cost of removing the junction box and capping metal conduit is included with Concrete Removal.

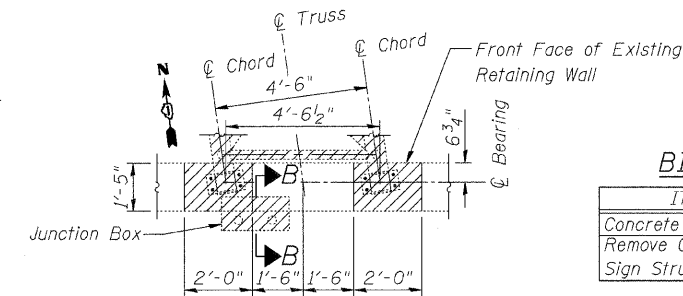


PLAN



ELEVATION

Existing Sign Panels and Walkway Not Shown



PLAN VIEW

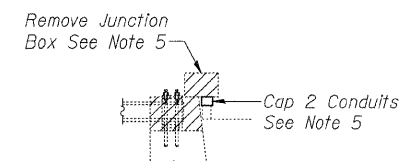
(Railing not shown for clarity)

BILL OF MATERIAL

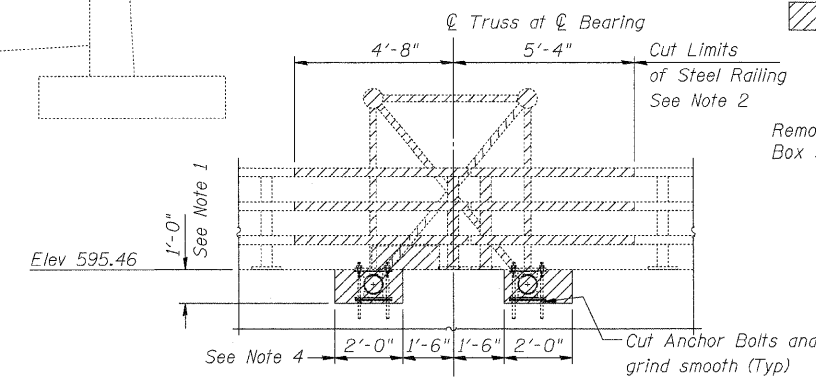
ITEM	UNIT	TOTAL
Concrete Removal	Cu Yd	7.0
Remove Overhead		
Sign Structure - Span	Each	1

LEGEND

Items to be Removed

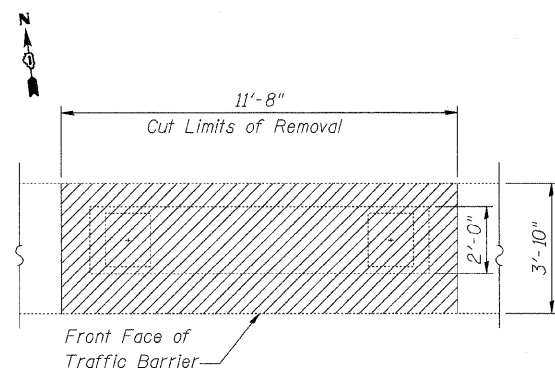


SECTION B-B

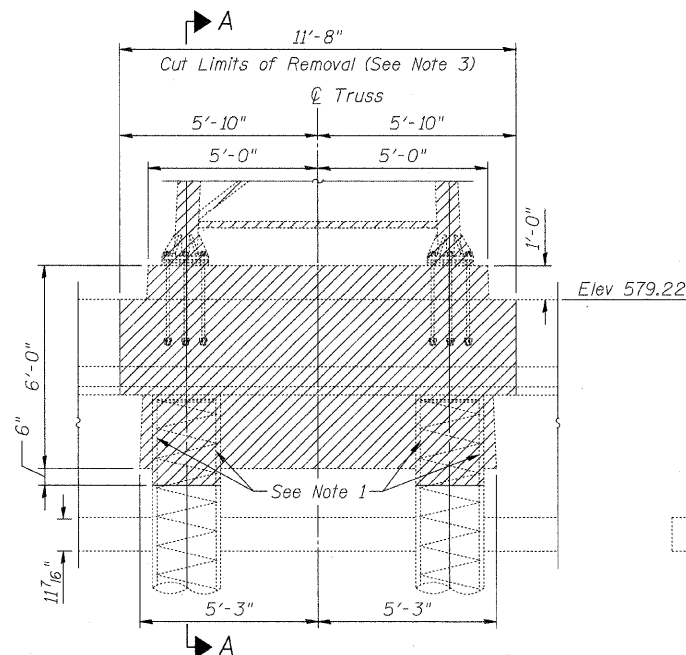


ELEVATION

RIGHT TRUSS SUPPORT

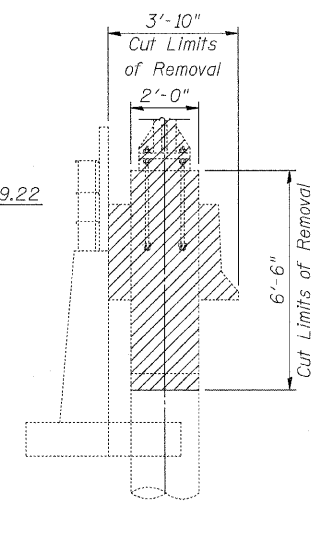


PLAN VIEW

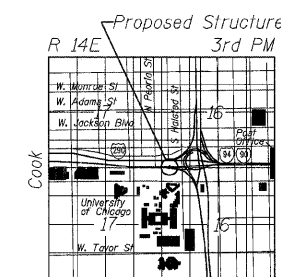


ELEVATION

LEFT TRUSS TOWER SUPPORT



SECTION A-A



LOCATION SKETCH

SIGN STRUCTURE REMOVAL

CIRCLE INTERCHANGE SIGN STRUCTURE
I-94/I-290
FROM I-290 EB RAMP
TO DES PLAINES AVE
F.A.I. 94/290-SECT. (2007-057T)
COOK COUNTY

8501 West Higgins Road, Suite 730, Chicago, Illinois 60631-2801
www.stanleyconsultants.com
Illinois Firm Registration No.: 1184-001533

DESIGNED - DSE	200
CHECKED - PT	EXAMINED
DRAWN - RTT	PASSED
CHECKED - PT	ENGINEER OF BRIDGE DESIGN
DATE - SEPT 24, 2008	ENGINEER OF BRIDGES AND STRUCTURES

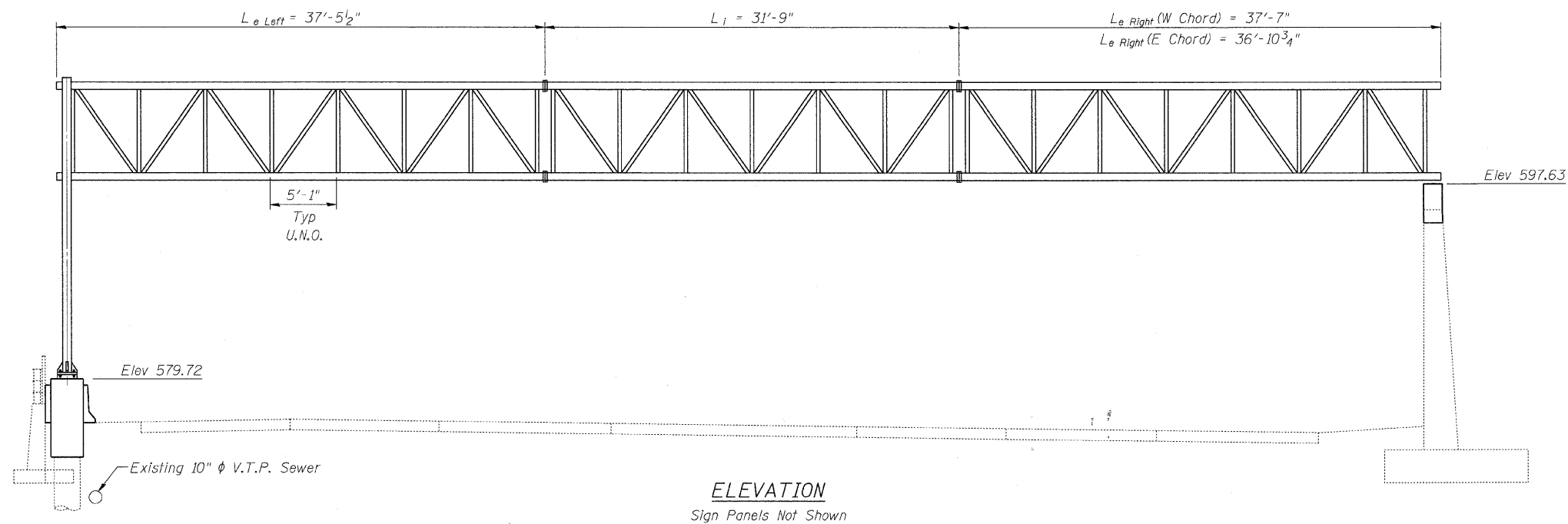
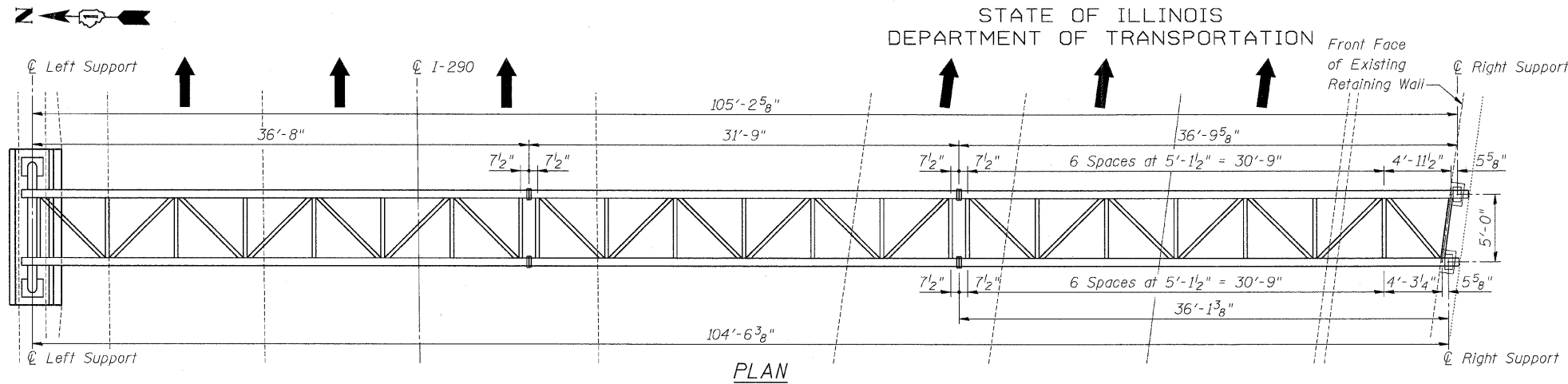
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2007-057 T	COOK	60	29

SHEET NO. 2
13 SHEETS

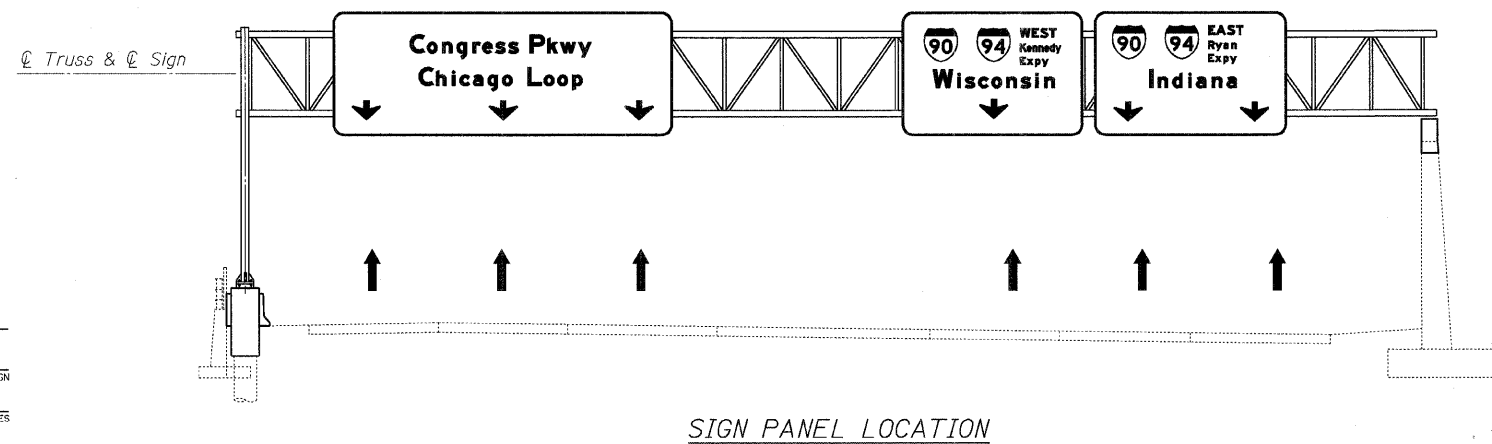
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-

Contract #60D93



NOTES:

- For all General Notes and dimensions not shown see sheets 3 thru 13 of 13.
- Attach keeper plates to right exterior truss section the same as used for the left exterior truss section. See Support End Detail for Exterior Unit on Sht 4 of 13 for details.



DESIGNED - DSE	200
CHECKED - PT	EXAMINED
DRAWN - RTT	PASSED
CHECKED - PT	ENGINEER OF BRIDGE DESIGN
DATE - SEPT 24, 2008	ENGINEER OF BRIDGES AND STRUCTURES



OVERHEAD SIGN STRUCTURE GEOMETRY

CIRCLE INTERCHANGE SIGN STRUCTURE

I-94/I-290
 FROM I-290 EB RAMP
 TO DES PLAINES AVE
 F.A.I. 94/290-SECT. (2007-057T)
 COOK COUNTY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3
290	2007-057 T	COOK	60	30	13 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

GENERAL NOTES Contract #60D93

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

WIND LOADING: 30 p.s.f. normal to Sign Panel Area and truss elements not behind sign Loading Diagram.

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 with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. 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.

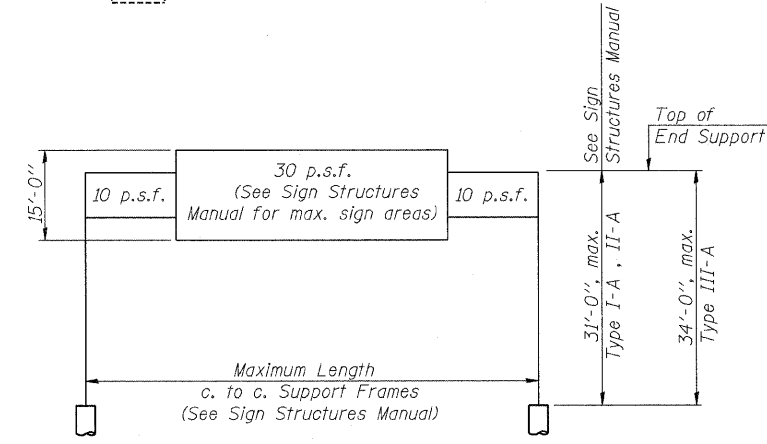
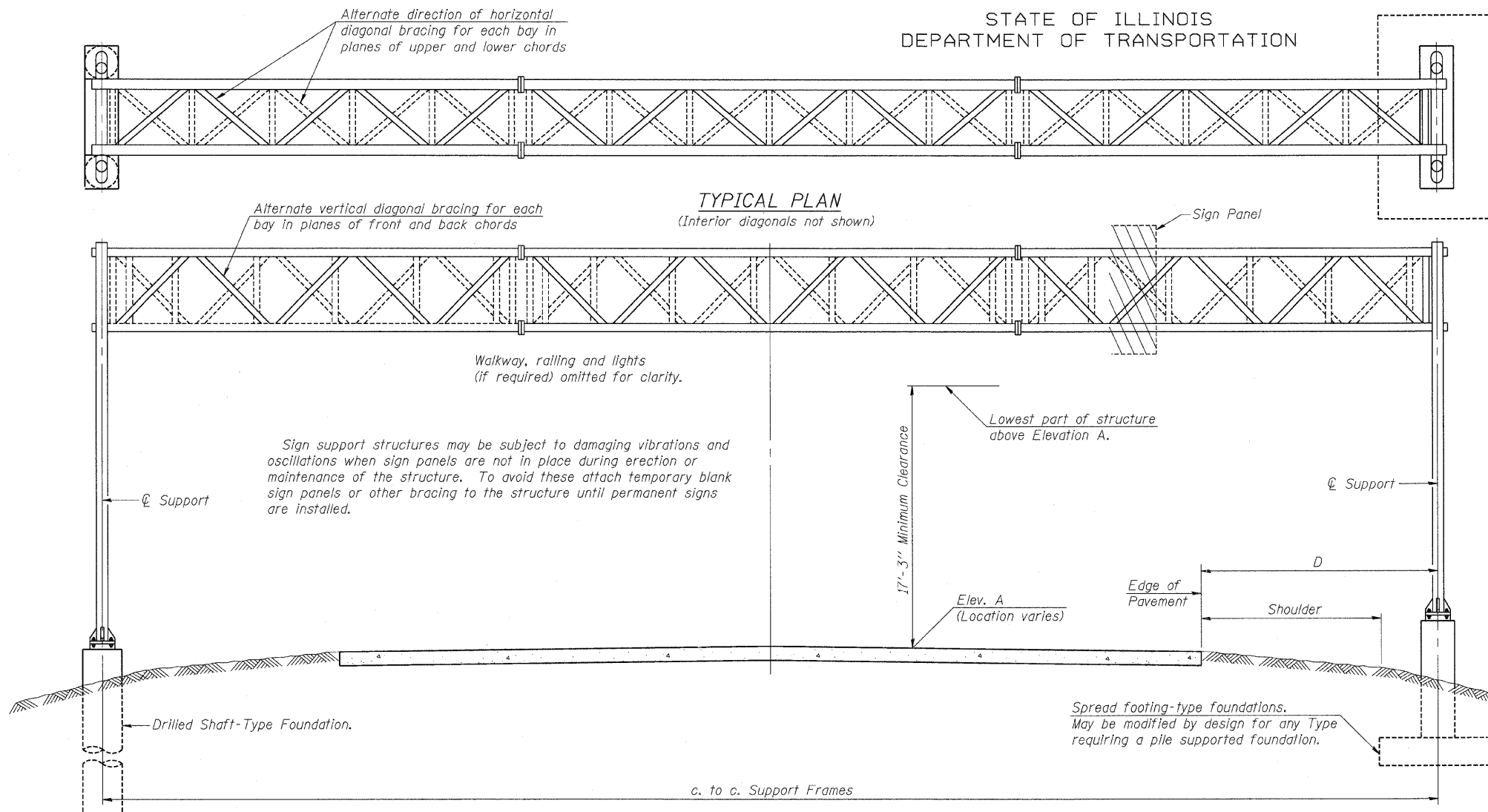
GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to AASHTO M314 Gr. 36 or 55 with a minimum Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F.

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

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

* 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 ELEVATION
(Looking at Face of Signs)**

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
IS0161290R029.7	19+00	III-A	See Sht 2 of 13	576.68	9'-6"	11'-0"	693 SF

**Looking upstation for structures with signs both sides.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	105
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	
CONCRETE FOUNDATIONS	Cu. Yds.	9.0
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	

NUMBER	REVISION	DATE

DESIGNED - DSE	200
CHECKED - PT	EXAMINED
DRAWN - RTT	PASSED
CHECKED - PT	ENGINEER OF BRIDGE DESIGN
DATE - SEPT 24, 2008	ENGINEER OF BRIDGES AND STRUCTURES

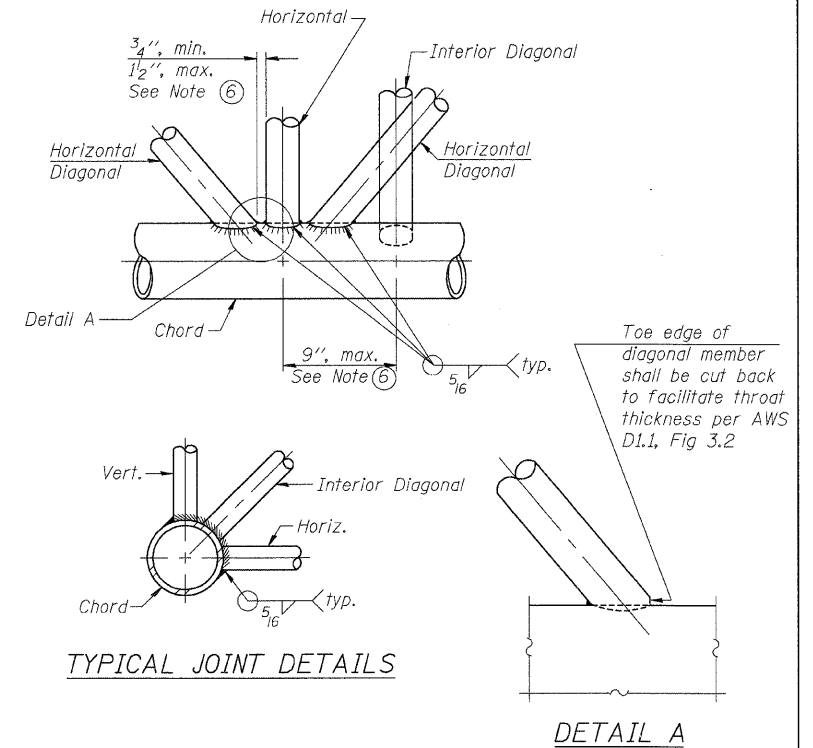
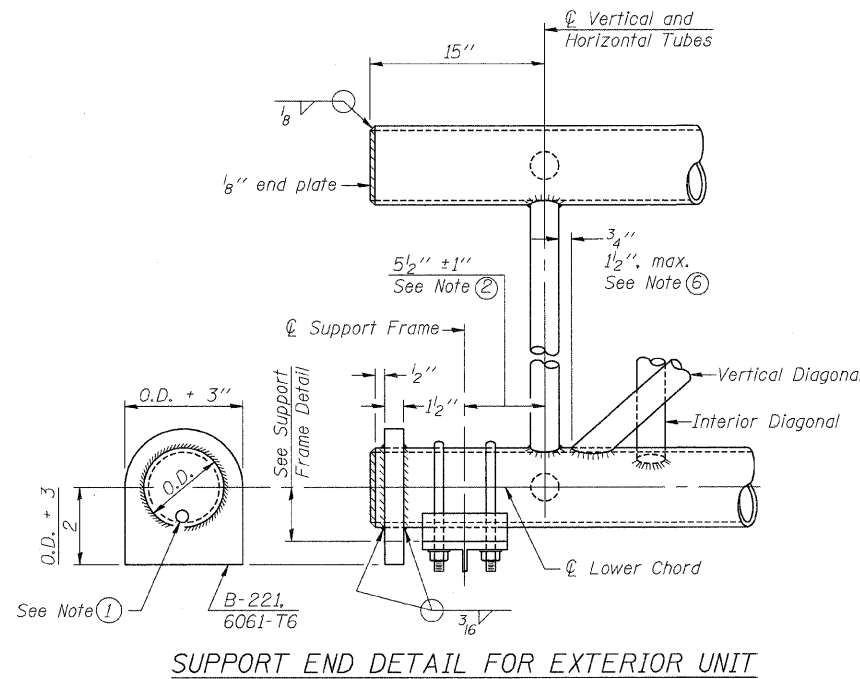
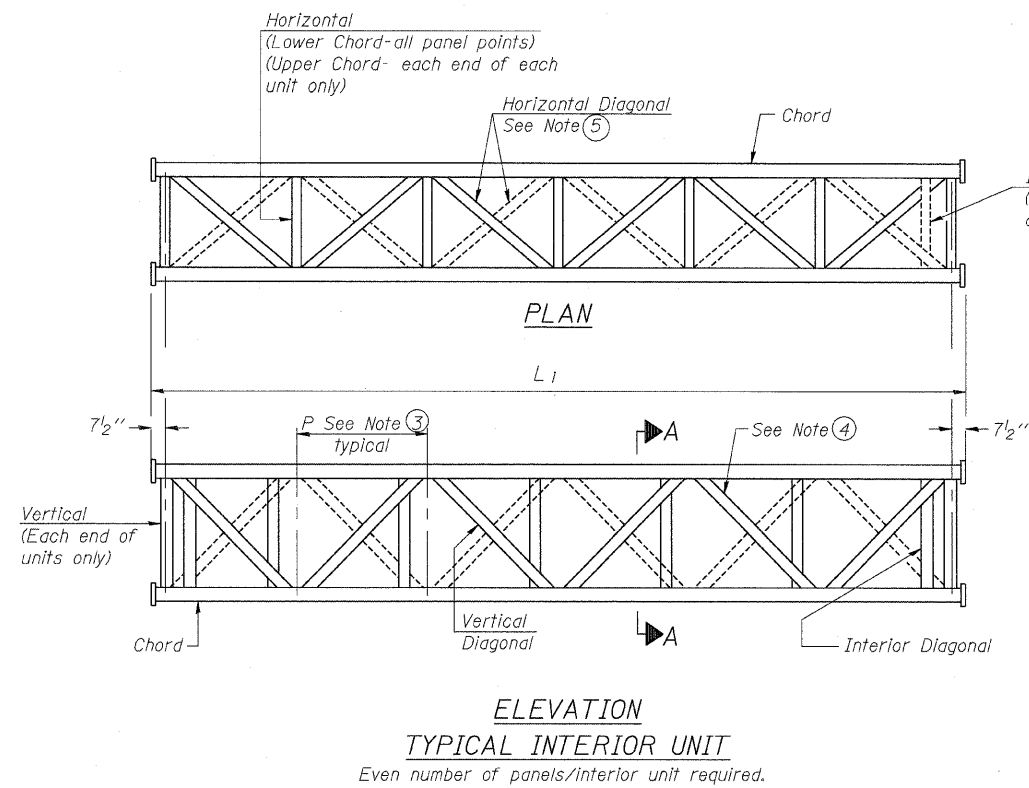
OS-A-1 5/16/08

OVERHEAD SIGN STRUCTURES
GENERAL PLAN & ELEVATION
ALUMINUM TRUSS & STEEL SUPPORTS
CIRCLE INTERCHANGE SIGN STRUCTURE
I-94/I-290
FROM I-290 EB RAMP
TO DES PLAINES AVE
F.A.I. 94/290-SECT. (2007-057T)
COOK COUNTY

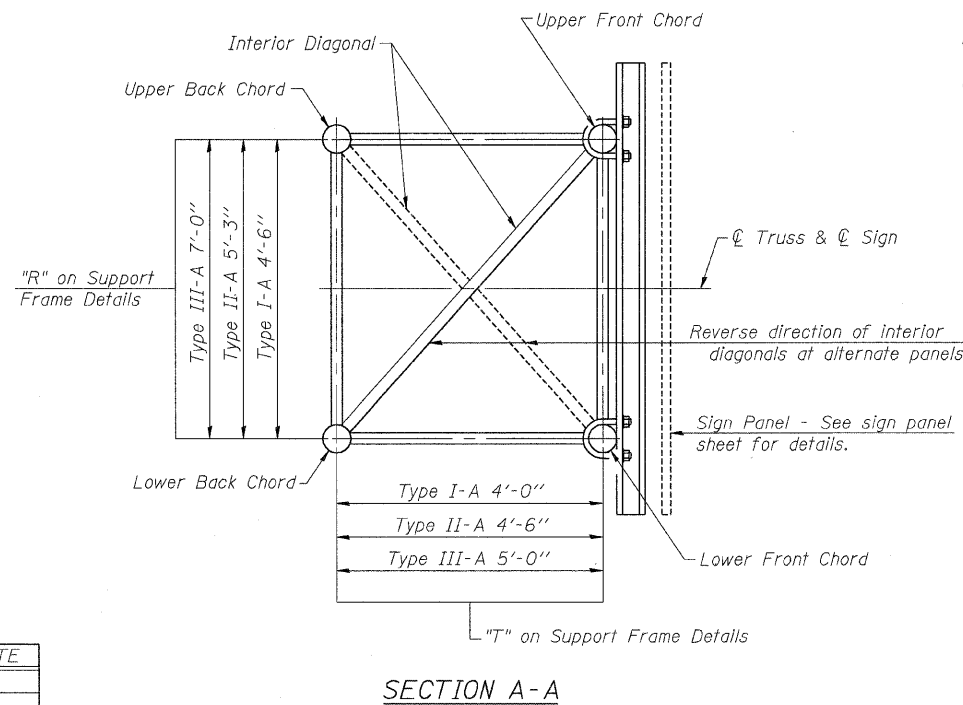
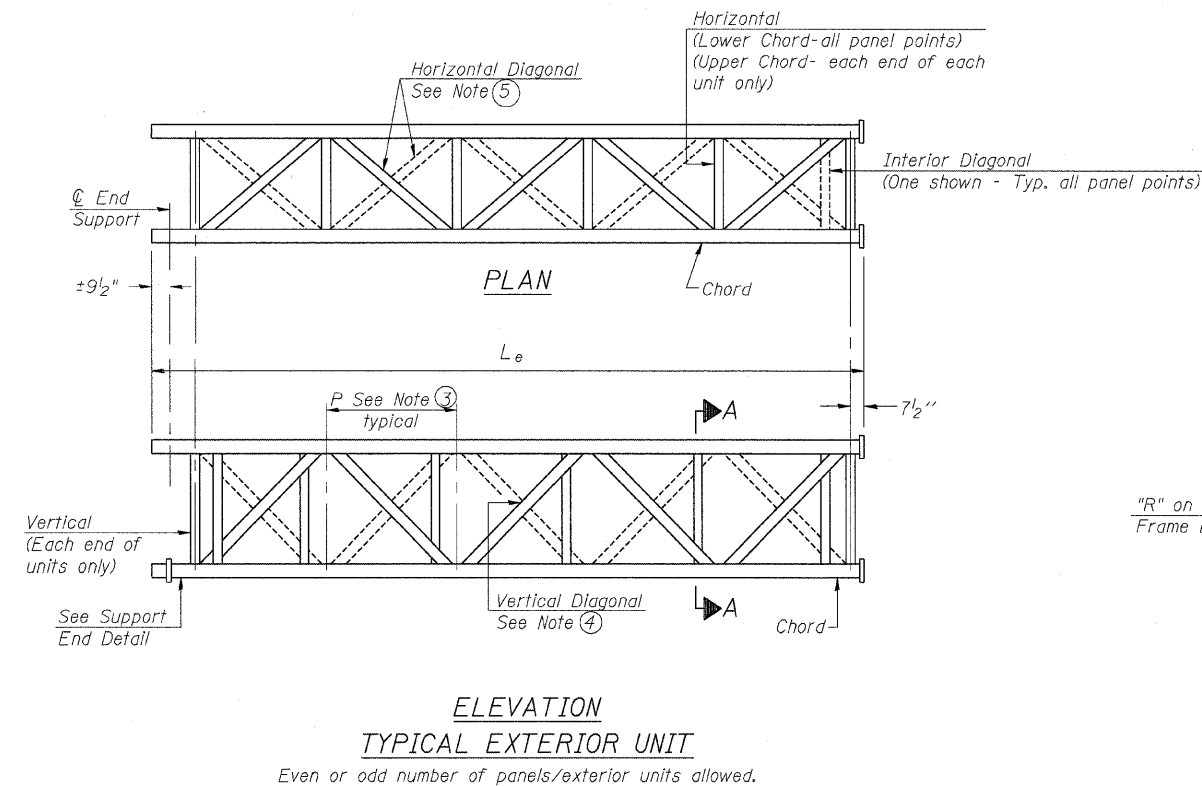
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET	SHEET NO.
290	2007-057 T	COOK	60	31	13 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract #60D93



- NOTES**
- 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)
 - 5 1/2" end dimension may vary by ±1" to provide uniform panel spacing (P).
 - 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.
 - Vertical Diagonals in front and back face shall alternate.
 - Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
 - 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.



**OVERHEAD SIGN STRUCTURES
ALUMINUM TRUSS DETAILS
FOR TRUSS TYPES I-A, II-A and III-A
CIRCLE INTERCHANGE SIGN STRUCTURE
I-94/I-290
FROM I-290 EB RAMP
TO DES PLAINES AVE
F.A.I. 94/290-SECT. (2007-057T)
COOK COUNTY**

DESIGNED - DSE	200
CHECKED - PT	EXAMINED
DRAWN - RTT	PASSED
CHECKED - PT	ENGINEER OF BRIDGE DESIGN
DATE - SEPT 24, 2008	ENGINEER OF BRIDGES AND STRUCTURES

OS-A-2 5/16/08

NUMBER	REVISION	DATE

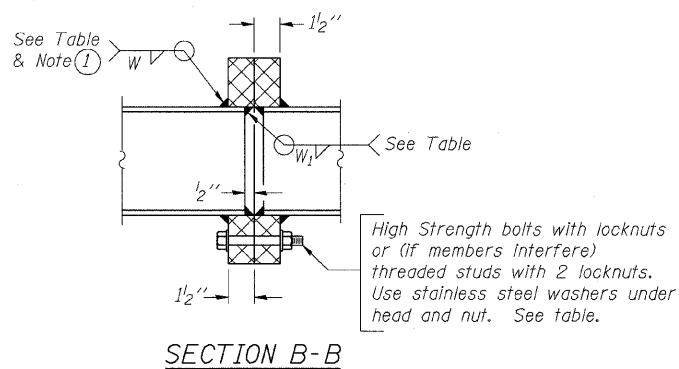
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5 13 SHEETS
290	2007-0577	COOK	60	32	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

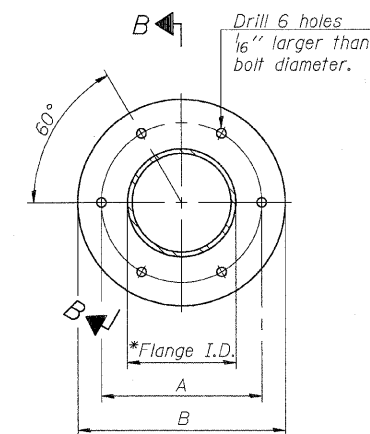
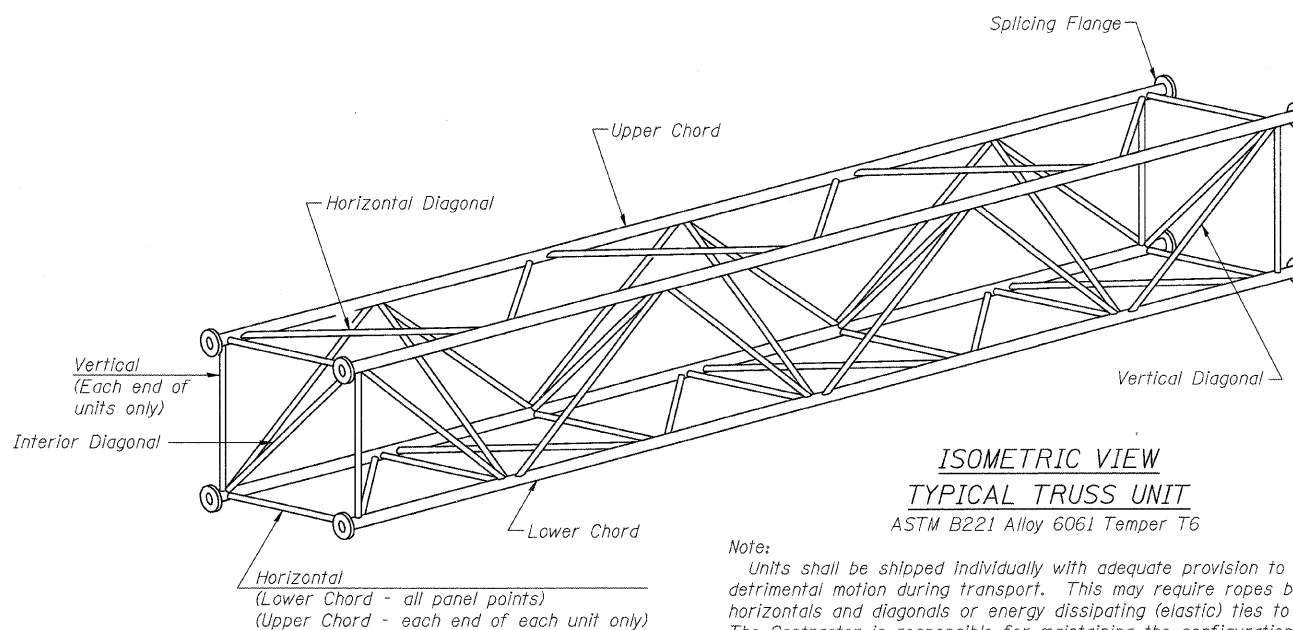
Contract #60D93

TRUSS UNIT TABLE

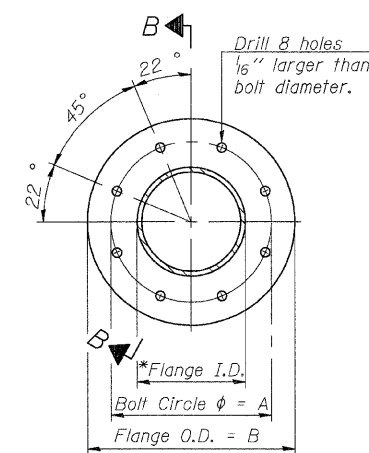
Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals				Camber at Midspan	Splicing Flange			
			No. Panels per Unit	Unit Lgth.(L _e)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L _i)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall	Bolts			Weld Sizes		A	B
														No./Splice	Dia.		W	W ₁		
ISO16I290R029.7	19+00	III-A	See Sht 2 of 13			1	6	31'-9"	5'-1"	7"	5/16"	3 1/4"	5/16"	2 1/2"	6	1"	7/16"	5/16"	11 1/2"	15"



① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or locks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



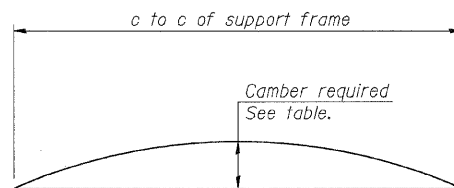
TRUSS TYPES I-A, II-A, & III-A



TRUSS TYPES II-A & III-A

SPLICING FLANGES

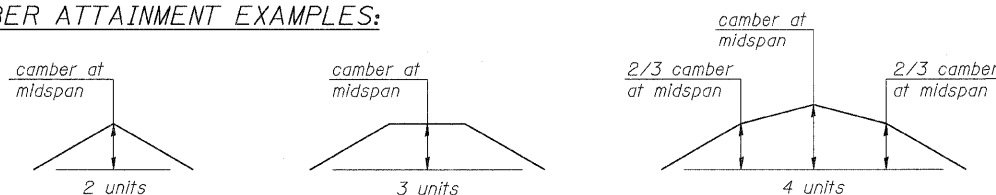
ASTM B221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651
*To fit O.D. of Chord with maximum gap of 1/16".



CAMBER DIAGRAM

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)

NUMBER	REVISION	DATE

DESIGNED - DSE	200
CHECKED - PT	EXAMINED
DRAWN - RTT	PASSED
CHECKED - PT	ENGINEER OF BRIDGE DESIGN
DATE - SEPT 24, 2008	ENGINEER OF BRIDGES AND STRUCTURES

OS4-A-2 5/16/08

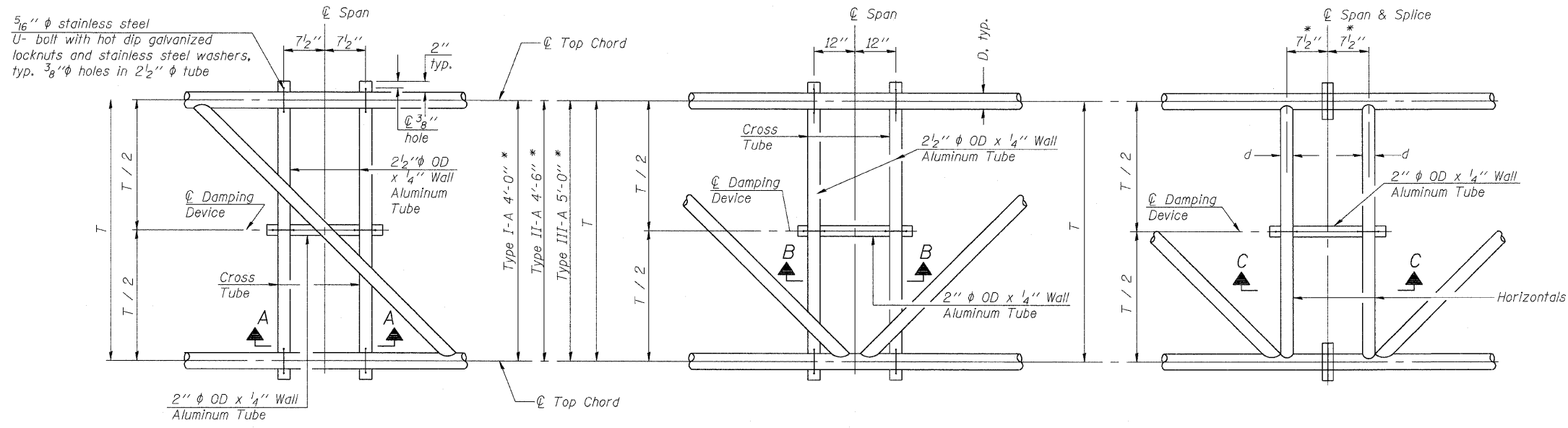
OVERHEAD SIGN STRUCTURES
ALUMINUM TRUSS DETAILS
FOR TRUSS TYPES I-A, II-A and III-A
CIRCLE INTERCHANGE SIGN STRUCTURE
I-94/I-290
FROM I-290 EB RAMP
TO DES PLAINES AVE
F.A.I. 94/290-SECT. (2007-057T)
COOK COUNTY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

ROUTE NO.	SECTION	COUNTY	POST MILES	SHEET NO.	SHEET NO. 6 13 SHEETS
290	2007-057 T	COOK	60	33	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

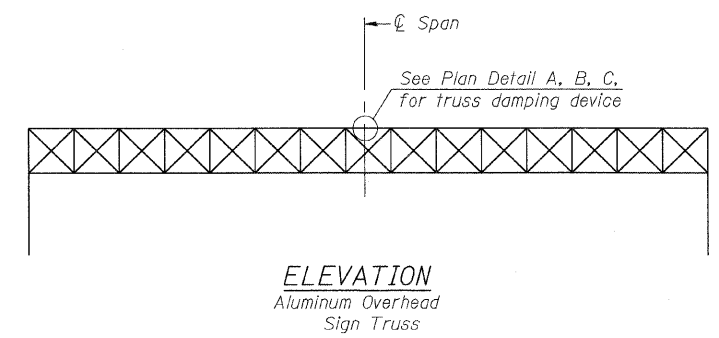
Contract #60D93



PLAN DETAIL "A"
Span between Panel Points

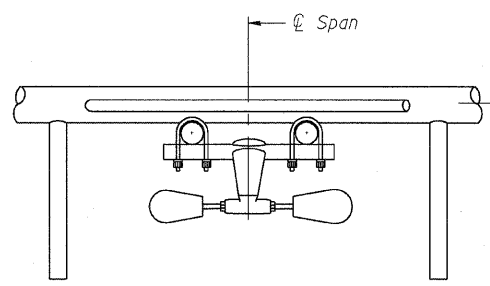
PLAN DETAIL "B"
Span at Panel Point

PLAN DETAIL "C"
Span at Chord Splice

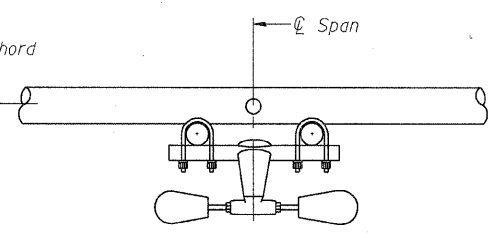


ELEVATION
Aluminum Overhead Sign Truss

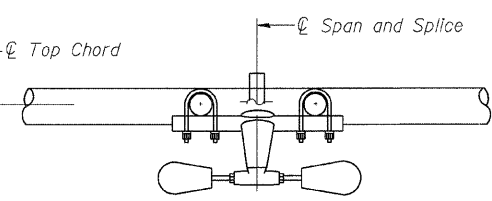
NOTES
Damper: One damper per truss.
(31 lbs. Stockbridge-Type Aluminum)
Cost included in Overhead Sign Structure...
Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



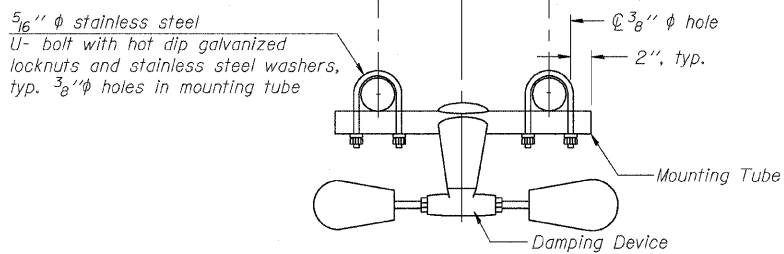
SECTION A-A



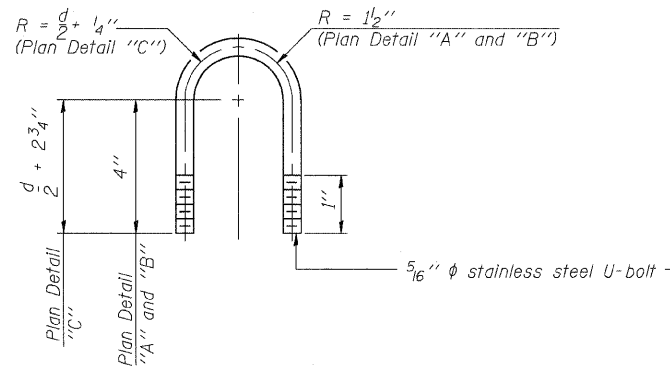
SECTION B-B



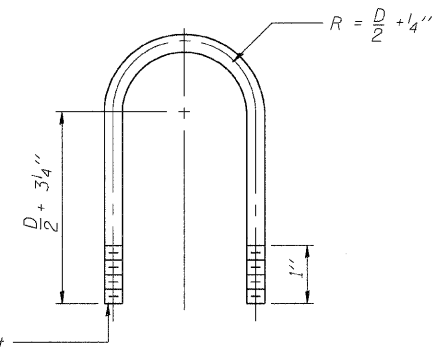
SECTION C-C



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")

DESIGNED - DSE	200
CHECKED - PT	EXAMINED
DRAWN - RTT	PASSED
CHECKED - PT	ENGINEER OF BRIDGE DESIGN
DATE - SEPT 24, 2008	ENGINEER OF BRIDGES AND STRUCTURES

OS-A-D 5/16/08



OVERHEAD SIGN STRUCTURE DAMPING DEVICE
CIRCLE INTERCHANGE SIGN STRUCTURE I-94/I-290 FROM I-290 EB RAMP TO DES PLAINES AVE F.A.I. 94/290-SECT. (2007-057T) COOK COUNTY

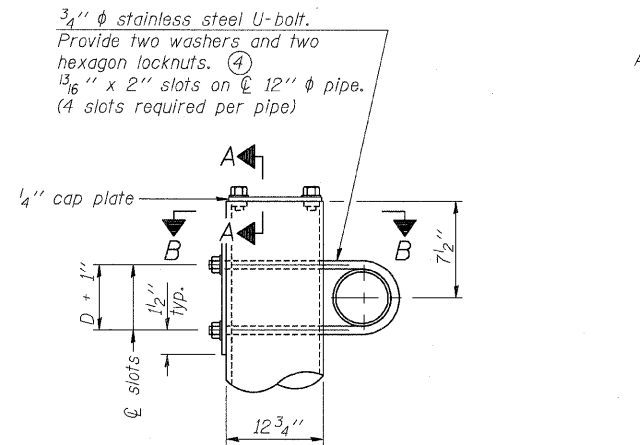
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
290	2007-0577	COOK	60	34
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

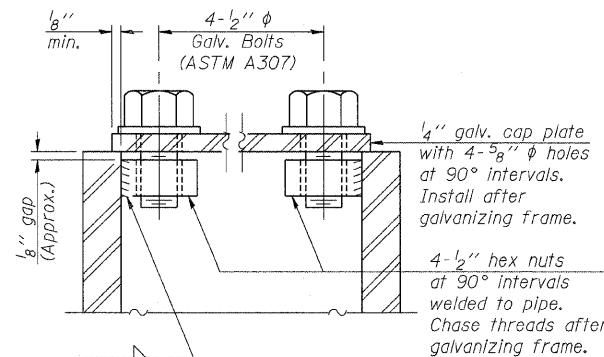
Contract #60D93

SHEET NO. 7

13 SHEETS

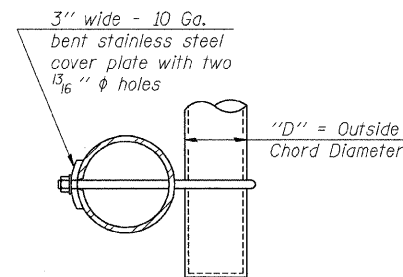


DETAIL A

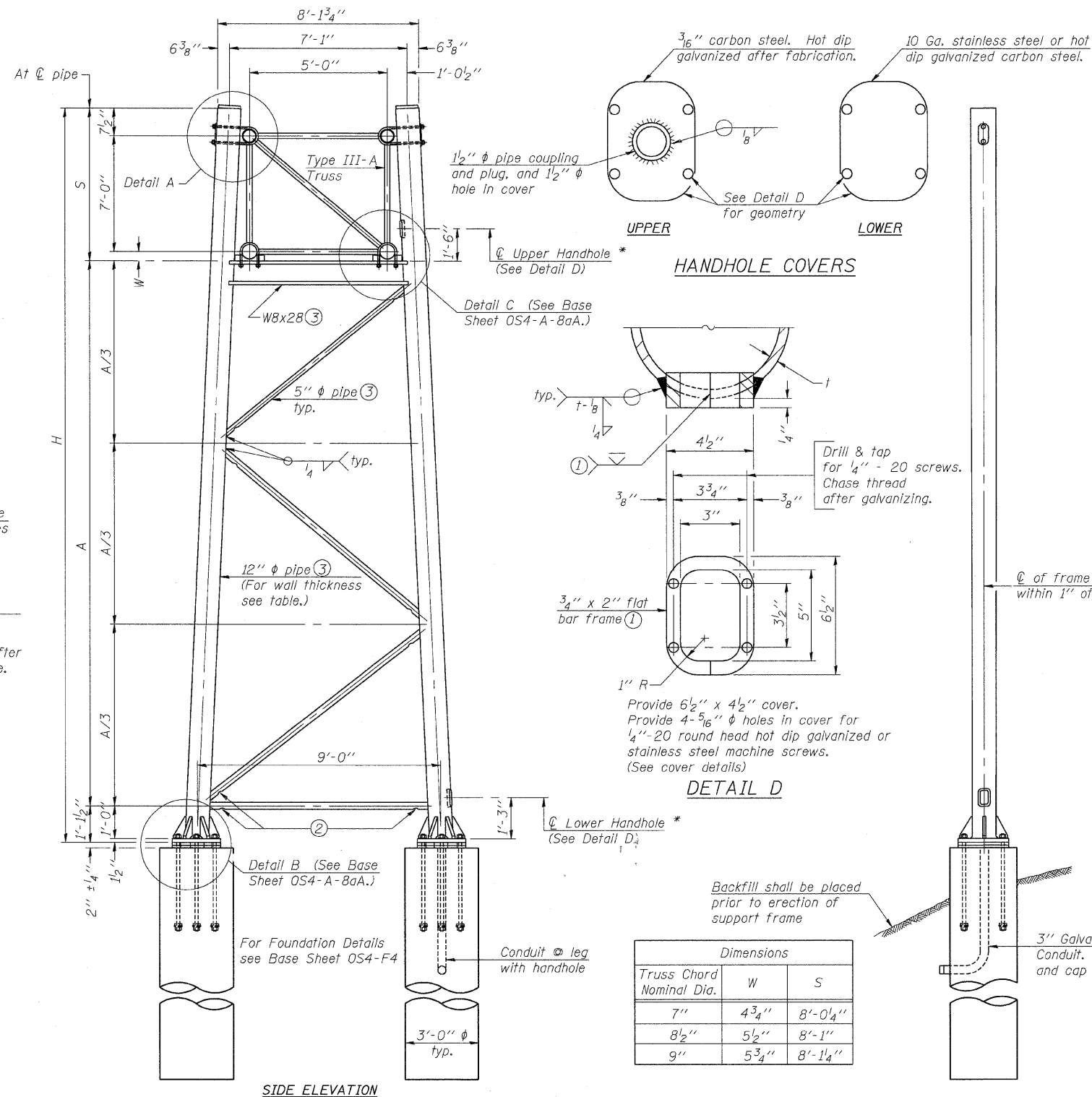


SECTION A-A

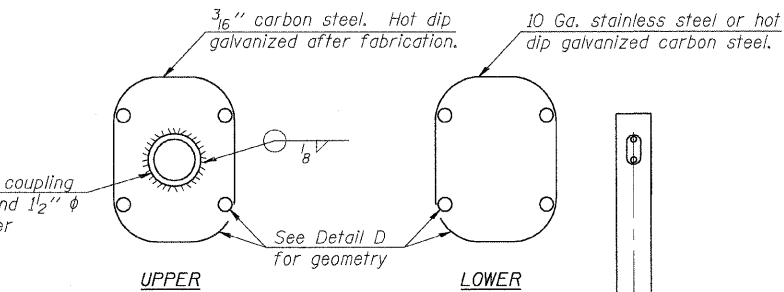
As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



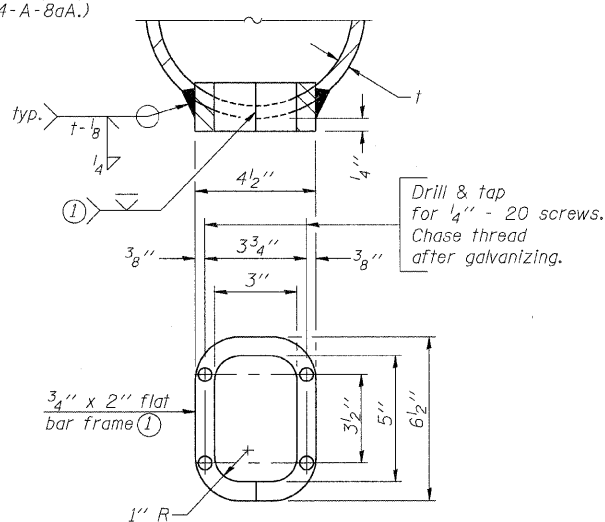
SECTION B-B



SIDE ELEVATION



HANDHOLE COVERS



DETAIL D

Truss Chord Nominal Dia.	Dimensions	
	W	S
7"	4 3/4"	8'-0 1/4"
8 1/2"	5 1/2"	8'-1"
9"	5 3/4"	8'-1 1/4"

TRUSS SUPPORT DETAILS
(12" ϕ Pipe-Type III-A Truss)

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

- 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 min or less.
- 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.
- 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.
- See General Notes for Fasteners.
- Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- "H" based on 15'-0" or actual sign height, whichever is greater.

* For dynamic message sign installations, provide upper and lower handholes in both legs of each support frame.

Structure Number	Station	Support		Pipe Wall Thickness	H (6)	A
		Left	Right			
ISO161290R029.7	19+00	L		0.33"	25'-11"	16'-9 1/4"

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME for TYPE III-A ALUMINUM TRUSS

CIRCLE INTERCHANGE SIGN STRUCTURE
I-94/I-290
FROM I-290 EB RAMP
TO DES PLAINES AVE
F.A.I. 94/290-SECT. (2007-0577)
COOK COUNTY

DESIGNED - OSE	200
CHECKED - PT	EXAMINED
DRAWN - RTT	PASSED
CHECKED - PT	ENGINEER OF BRIDGE DESIGN
DATE - SEPT 24, 2008	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

OS4-A-8a 5/16/08

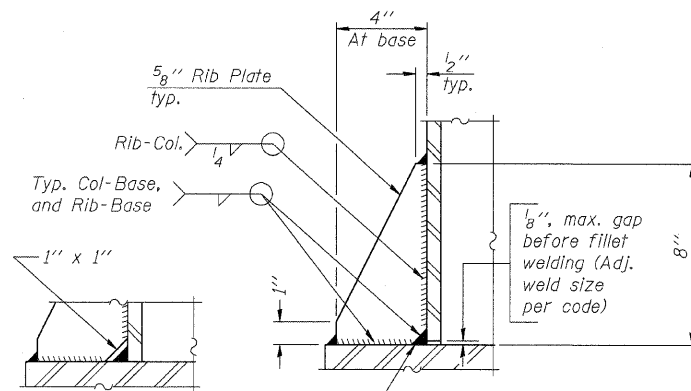
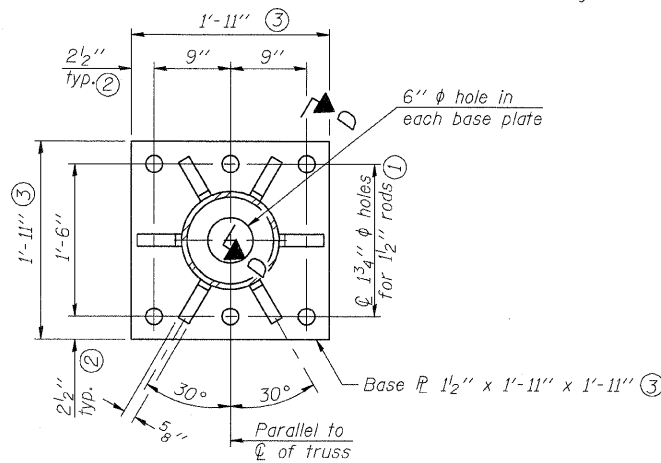
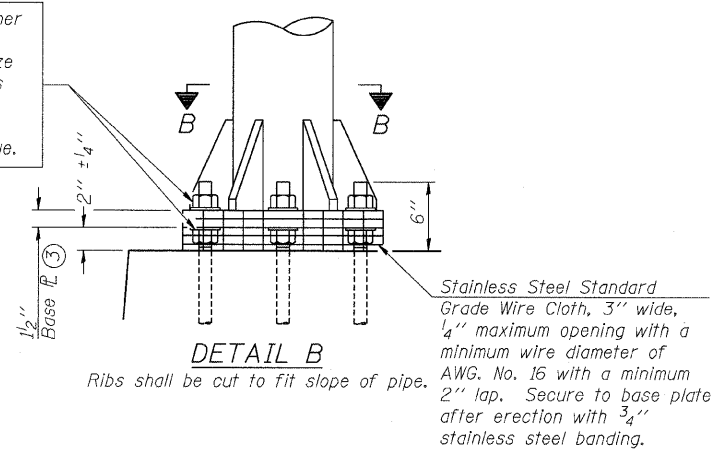
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	STA. SHEETS	SHEET NO.
290	2007-057 T	COOK	60	35
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

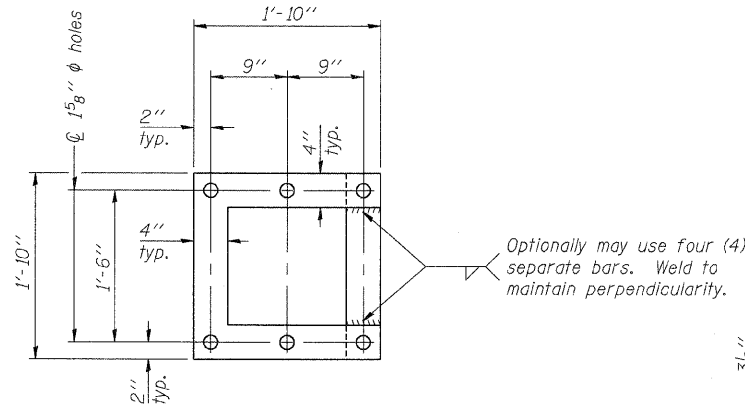
SHEET NO. 8
13 SHEETS

Contract #60D93

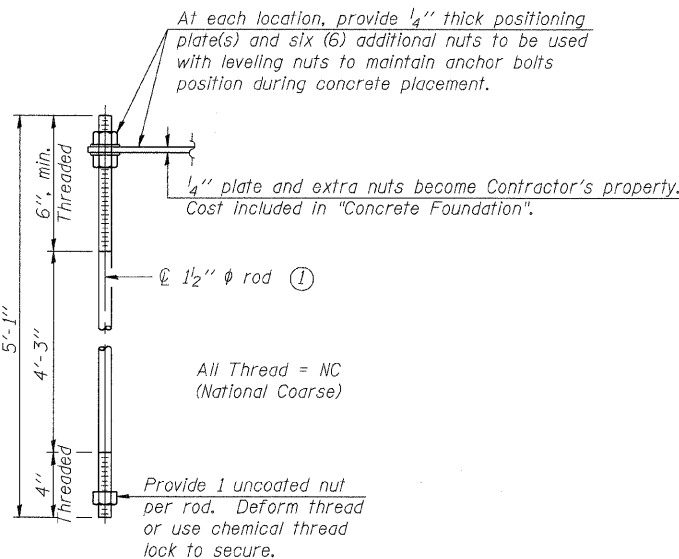
Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.



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



POSITIONING PLATE(S)



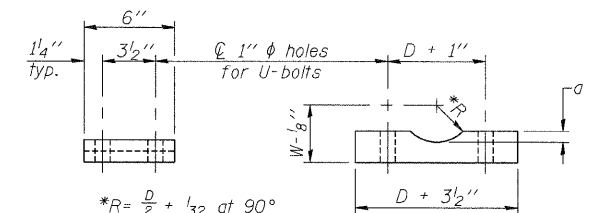
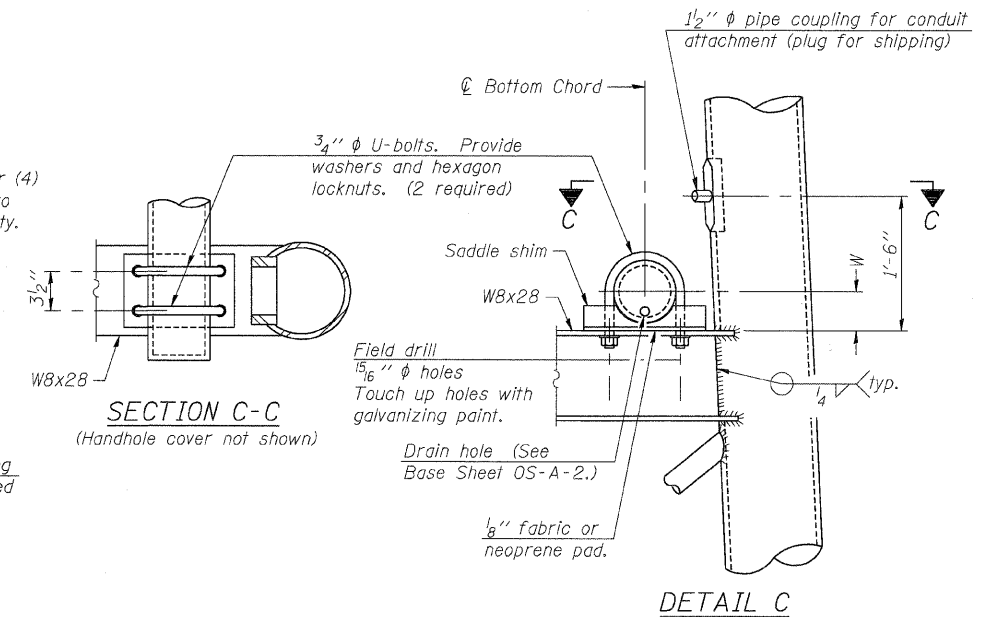
ANCHOR ROD DETAIL

Anchor rods shall conform to AASHTO M314 Grade 36 or 55 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. Galvanize upper 12" per AASHTO M232. No welding shall be permitted on rods.

**TYPE III-A TRUSS
12" ϕ PIPE SUPPORT FRAME DETAILS**

Notes:
For Type III-A Truss spans greater than 150 ft. and up to 160 ft.:

- ① 1 3/4" ϕ rod, 2" ϕ holes
- ② 2 3/4" edge distance
- ③ Base Pl. 1 5/8" x 1'-11 1/2" x 1'-11 1/2"



Truss Chord Nominal Dia.	a
7"	1"
8 1/2"	1 1/4"
9"	1 3/8"

SADDLE SHIM DETAIL
ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T651
(4 required per sign truss)

DESIGNED - DSE	200
CHECKED - PT	EXAMINED
DRAWN - RTT	PASSED
CHECKED - PT	ENGINEER OF BRIDGE DESIGN
DATE - SEPT 24, 2008	ENGINEER OF BRIDGES AND STRUCTURES

DESIGNED - DSE	200
CHECKED - PT	EXAMINED
DRAWN - RTT	PASSED
CHECKED - PT	ENGINEER OF BRIDGE DESIGN
DATE - SEPT 24, 2008	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

OS4-A-8aA 5/16/08

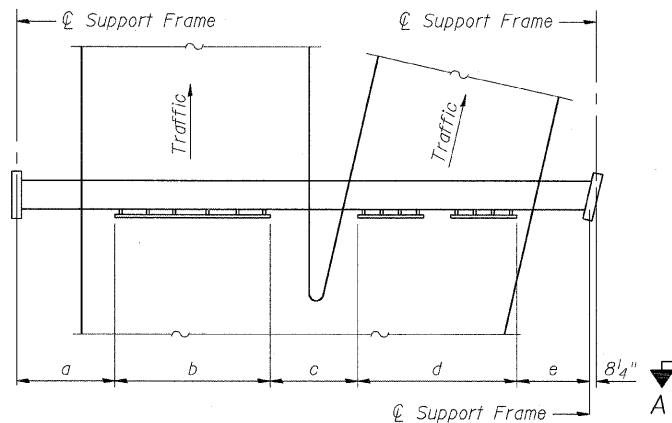
OVERHEAD SIGN STRUCTURES
SUPPORT FRAME for TYPE III-A ALUMINUM TRUSS

CIRCLE INTERCHANGE SIGN STRUCTURE
I-94/I-290
FROM I-290 EB RAMP
TO DES PLAINES AVE
F.A.I. 94/290-SECT. (2007-057T)
COOK COUNTY

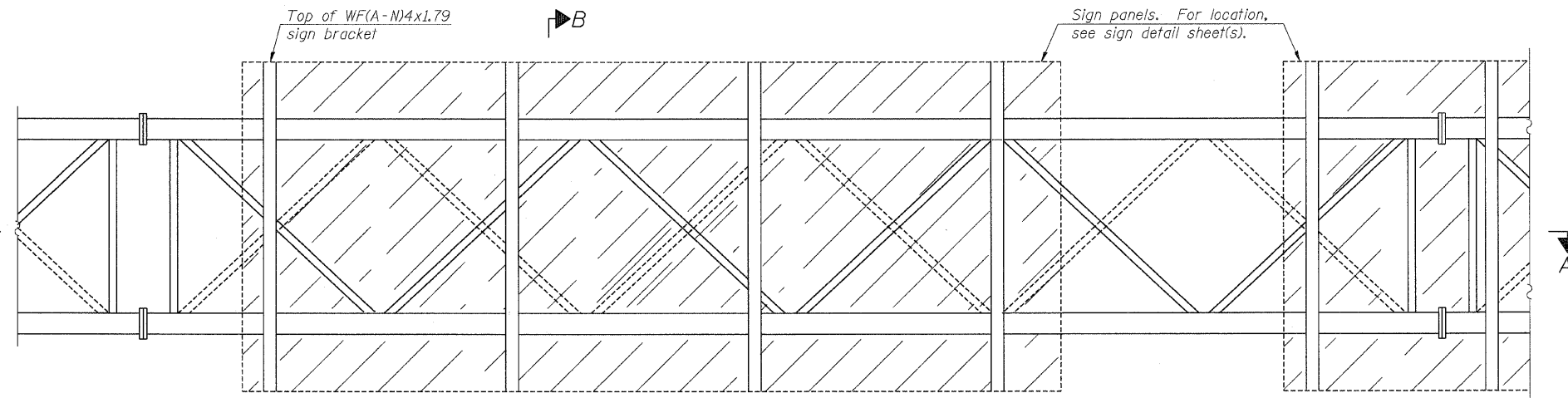
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	JSTA SHEETS	SHEET NO.	SHEET NO. 9 13 SHEETS
290	2007-057 T	COOK	60	36	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract #60D93



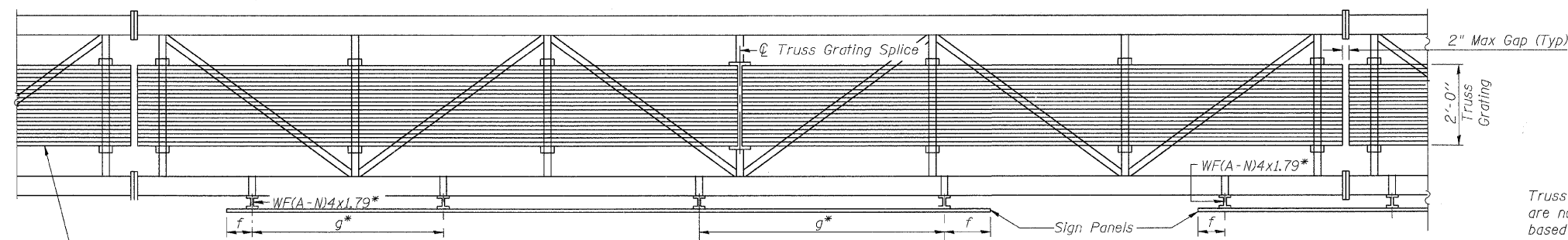
PLAN
SIGN LOCATION SKETCH
(Road plan beneath truss varies)



TYPICAL FRONT ELEVATION
For Section B-B, see Base Sheet OS-A-10-Special

BRACKET TABLE

WF(A-N)4x1.79 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



SECTION A-A

Place all sign brackets as close to panel points as practical.

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

Notes:

* Space 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 = 6'-0" maximum (ϕ to ϕ sign brackets, WF(A-N)4x1.79)

For Detail T and Section B-B see Base Sheet OS-A-10-Special.

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".

DESIGNED - DSE	200
CHECKED - PT	EXAMINED
DRAWN - RTT	PASSED
CHECKED - PT	ENGINEER OF BRIDGES AND STRUCTURES
DATE - SEPT 24, 2008	OS-A-9-Special

200
EXAMINED
ENGINEER OF BRIDGE DESIGN
PASSED
ENGINEER OF BRIDGES AND STRUCTURES
OS-A-9-Special

Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
IS016I290R029.7	19+00	7'-3"	30'-0"	20'-5"	33'-5"	13'-5 3/8"	N/A

OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS

CIRCLE INTERCHANGE SIGN STRUCTURE
I-94/I-290
FROM I-290 EB RAMP
TO DES PLAINES AVE
F.A.I. 94/290-SECT. (2007-057T)
COOK COUNTY

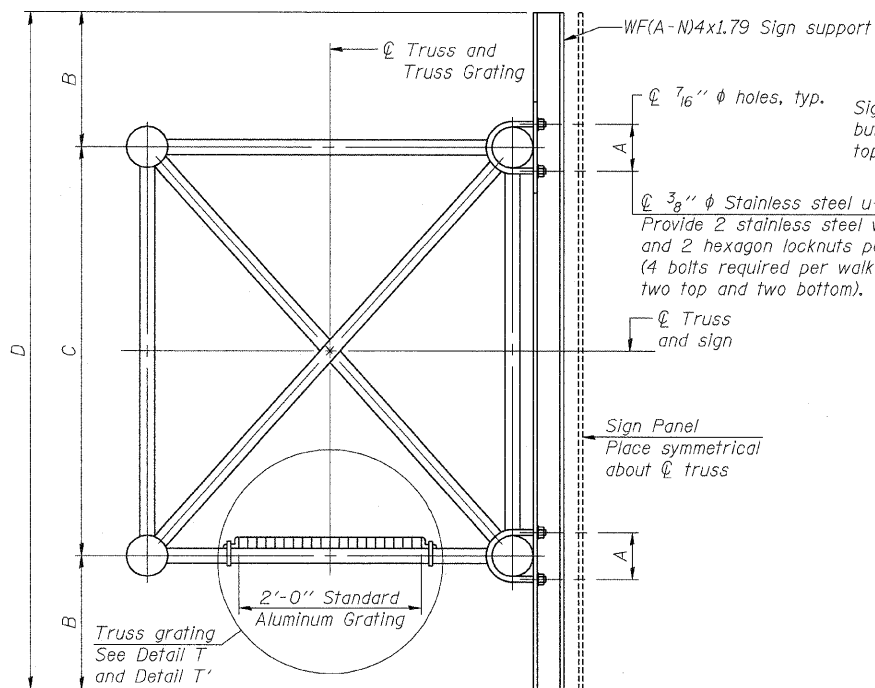
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2007-057 T	COOK	60	37
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 10

13 SHEETS

Contract #60D93

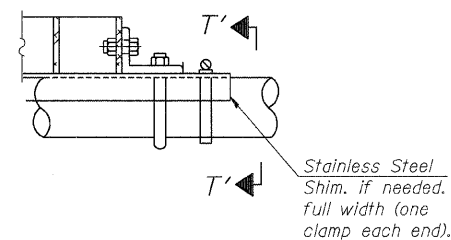


SECTION B-B

Sign shall be even with the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.

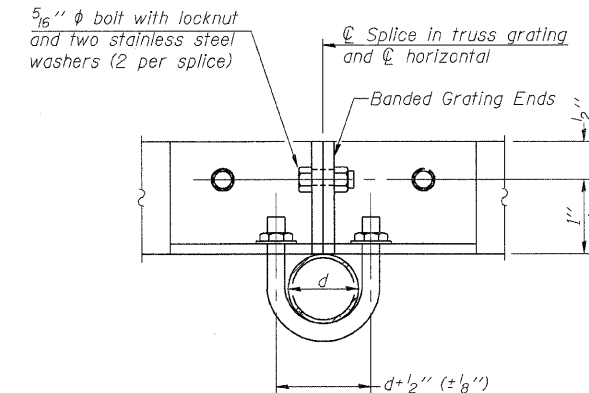
Provide 2 stainless steel washers and 2 hexagon locknuts per bolt. (4 bolts required per walkway bracket, two top and two bottom).

Place symmetrical about center of truss

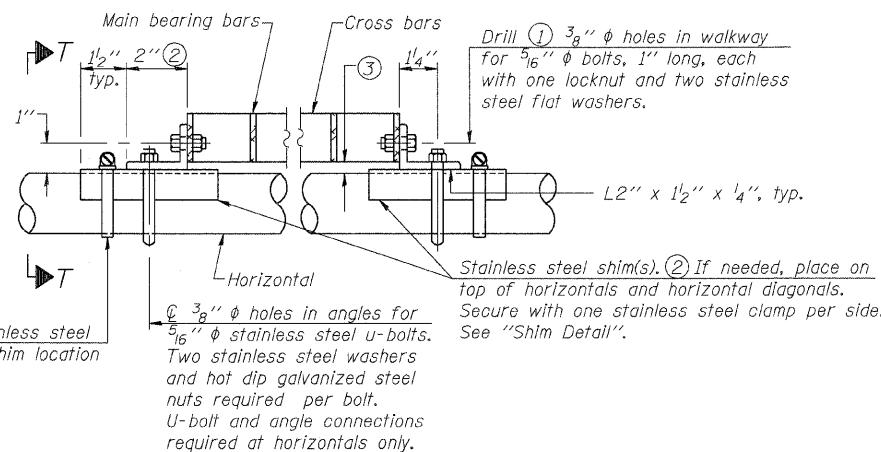


DETAIL T'

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

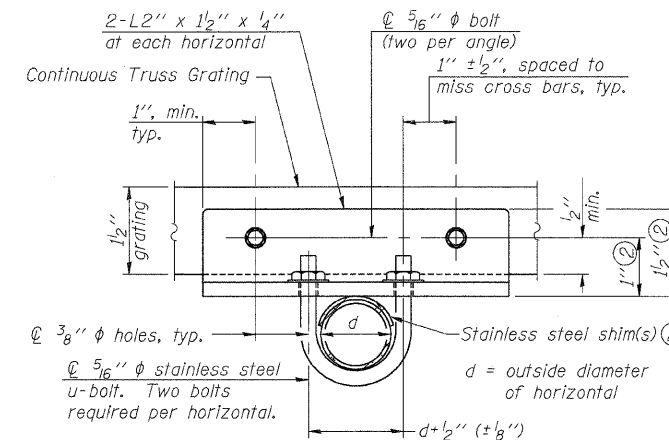


SECTION T'-T'

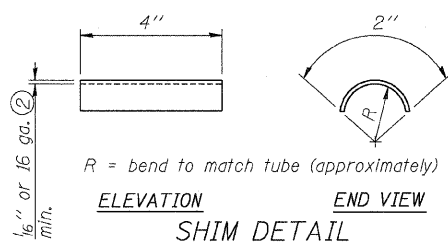


DETAIL T

(Continuous Truss grating)



SECTION T-T



SHIM DETAIL

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.

- 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.
- Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.

Structure Number	Station	A	B	C	D
IS016I290R029.7	19+00	7 1/2"	2'-0"	7'-0"	11'-0"

DESIGNED - DSE	200
CHECKED - PT	EXAMINED
DRAWN - RTT	PASSED
CHECKED - PT	ENGINEER OF BRIDGES AND STRUCTURES
DATE - SEPT 24, 2008	OS-A-10-Special

NUMBER	REVISION	DATE

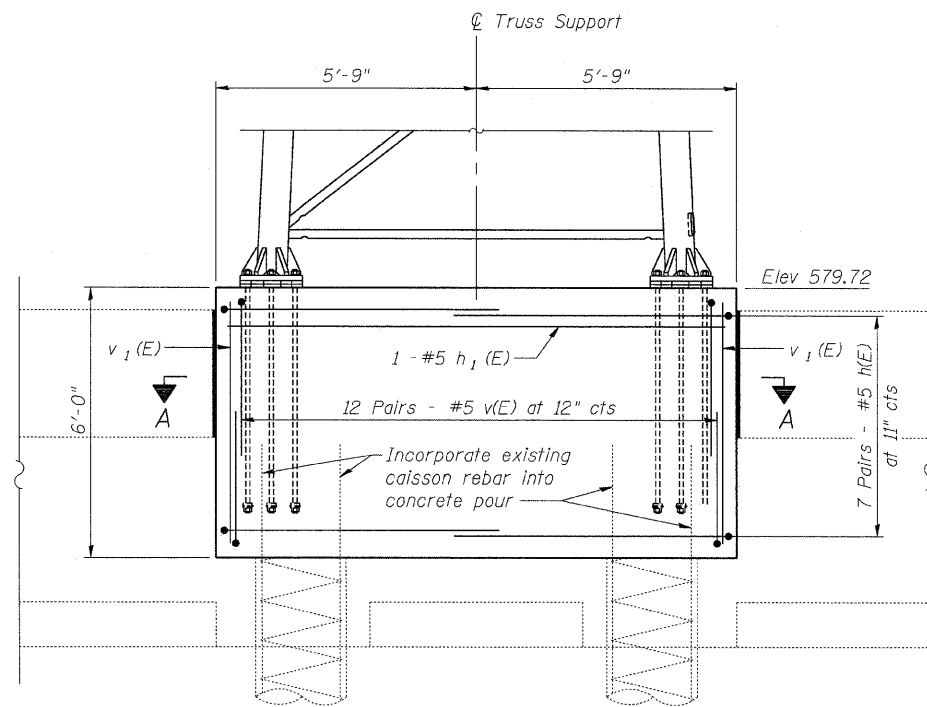
OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS

CIRCLE INTERCHANGE SIGN STRUCTURE
I-94/I-290
FROM I-290 EB RAMP
TO DES PLAINES AVE
F.A.I. 94/290-SECT. (2007-057T)
COOK COUNTY

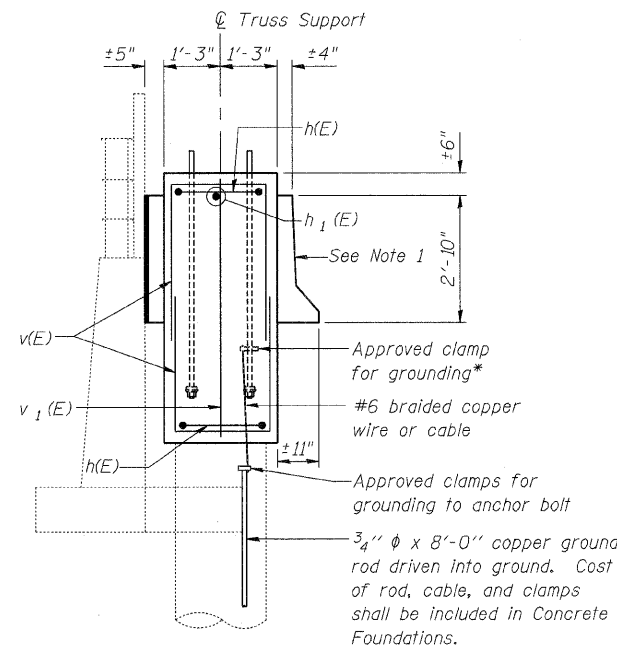
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 11
290	2007-057 T	COOK	60	38	13 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #60D93



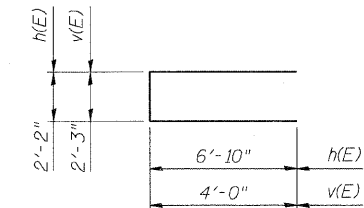
SIDE ELEVATION



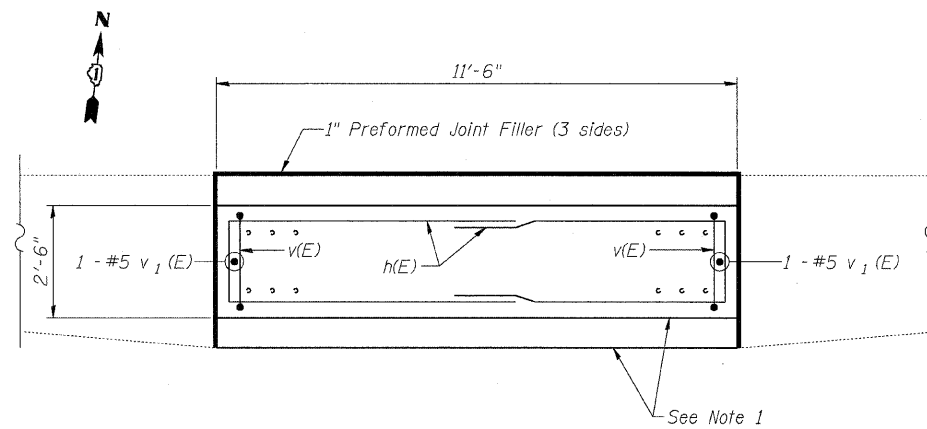
END ELEVATION

BAR LIST

Bar	Number	Size	Length	Shape
h(E)	14	#5	15'-10"	□
h ₁ (E)	1	#5	11'-3"	□
v(E)	24	#5	10'-4"	□
v ₁ (E)	2	#5	5'-9"	□



BARS h(E) & v(E)



SECTION A-A

DETAILS FOR 12" φ SUPPORT FRAME

NOTES:

- Match shape of existing barrier at both ends of replaced barrier.
 - For anchor rod size and placement see Support Frame Detail Sheet 8 of 13.
- * Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.
- ** A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Concrete Foundations.



OVERHEAD SIGN STRUCTURES
LEFT TOWER SUPPORT MODIFICATION

CIRCLE INTERCHANGE SIGN STRUCTURE
I-94/I-290
FROM I-290 EB RAMP
TO DES PLAINES AVE
F.A.I. 94/290-SECT. (2007-057T)
COOK COUNTY

DESIGNED - DSE	200
CHECKED - PT	EXAMINED
DRAWN - RTT	PASSED
CHECKED - PT	ENGINEER OF BRIDGE DESIGN
DATE	ENGINEER OF BRIDGES AND STRUCTURES
SEPT 24, 2008	

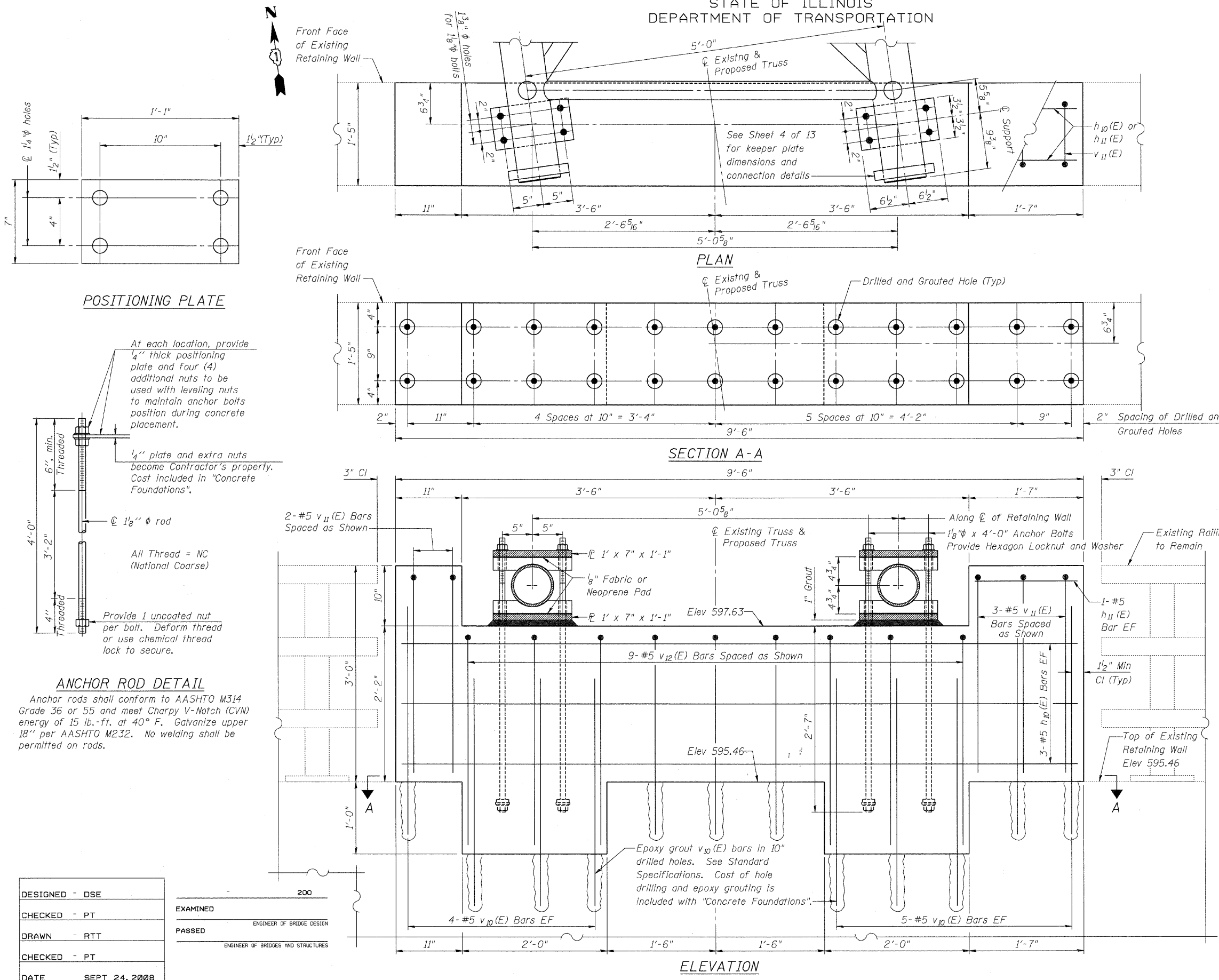
NUMBER	REVISION	DATE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	STA. SHEETS	SHEET NO.
290	2007-057 T	COOK	60	39
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

Contract #60D93

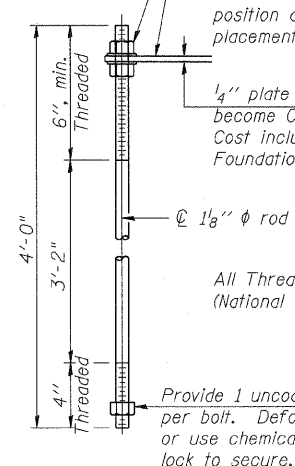
SHEET NO. 12
13 SHEETS



POSITIONING PLATE

At each location, provide 1/4" thick positioning plate and four (4) 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 "Concrete Foundations".

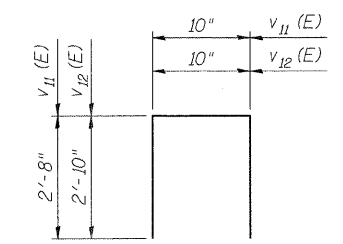


ANCHOR ROD DETAIL

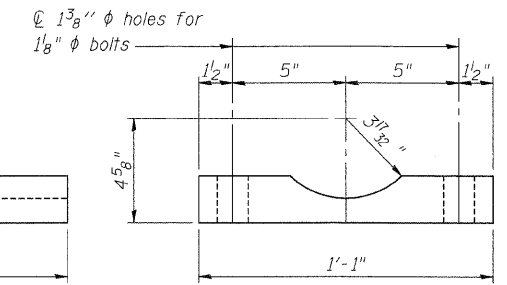
Anchor rods shall conform to AASHTO M314 Grade 36 or 55 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. Galvanize upper 18" per AASHTO M232. No welding shall be permitted on rods.

BAR LIST

Bar	Number	Size	Length	Shape
$h_{10}(E)$	6	#5	9'-2"	—
$h_{11}(E)$	2	#5	1'-3"	—
$v_{10}(E)$	18	#5	3'-2"	—
$v_{11}(E)$	5	#5	6'-2"	□
$v_{12}(E)$	9	#5	6'-6"	□



BARS $v_{11}(E)$ & $v_{12}(E)$



SIDE VIEW

END VIEW

SADDLE SHIM DETAIL

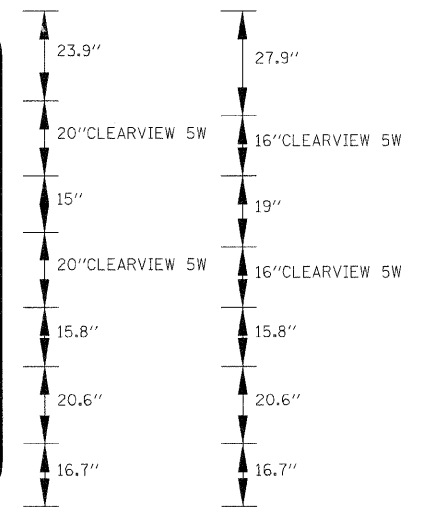
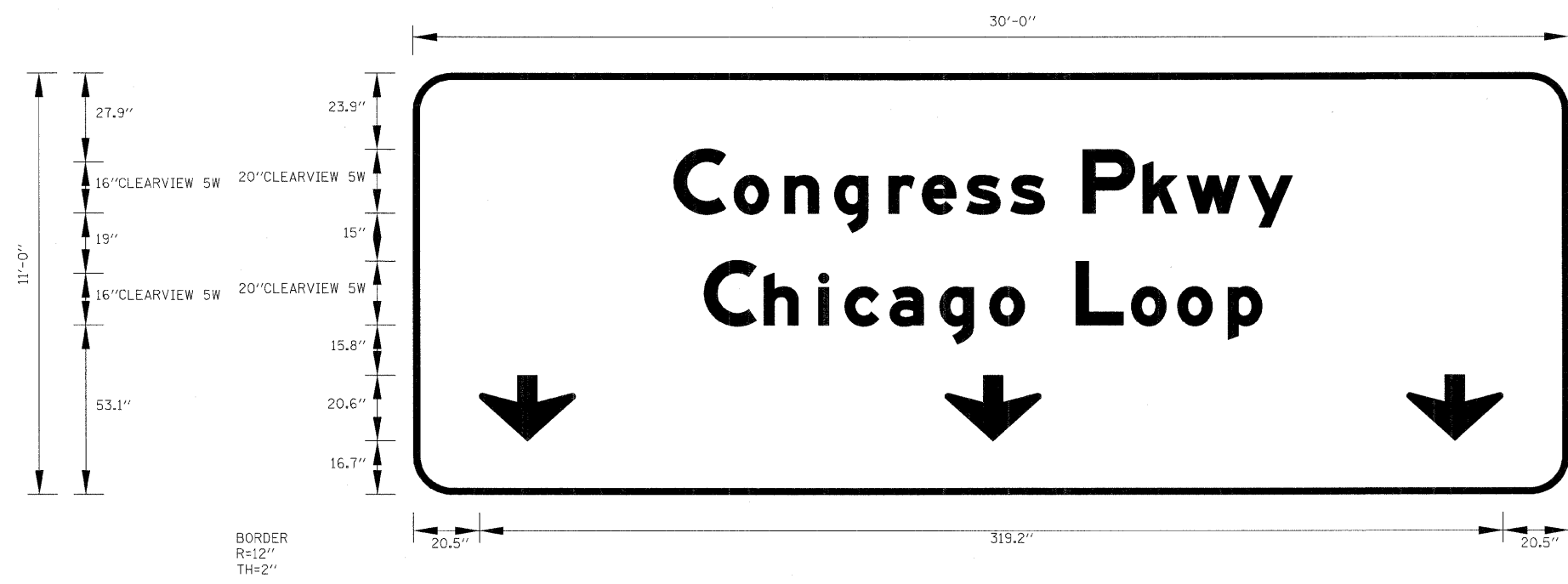
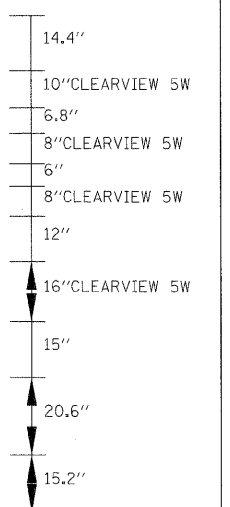
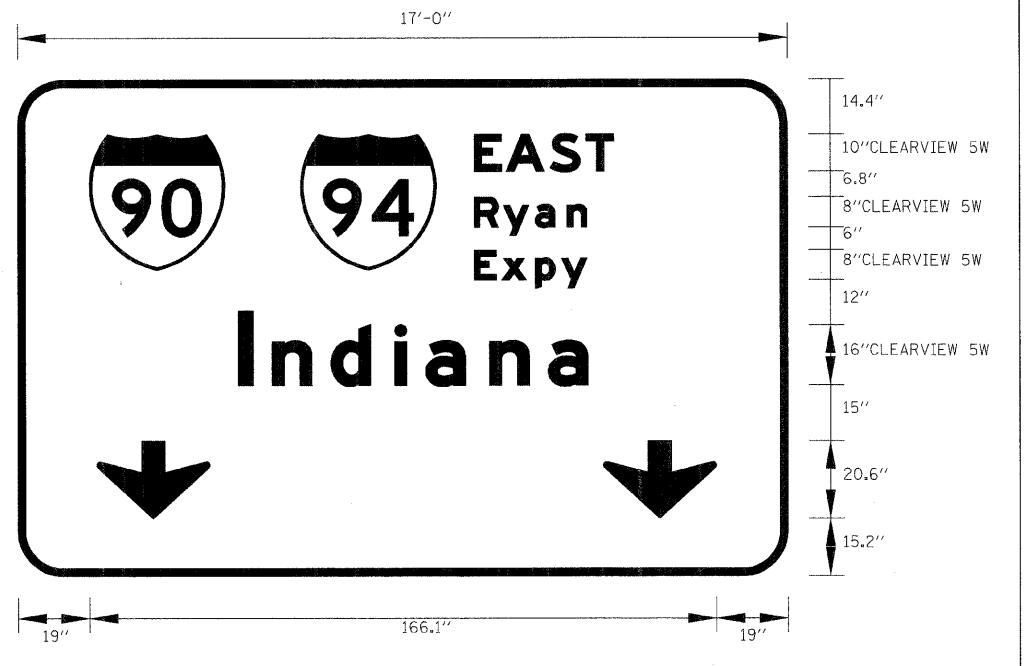
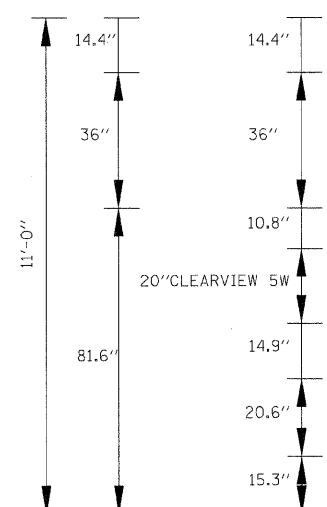
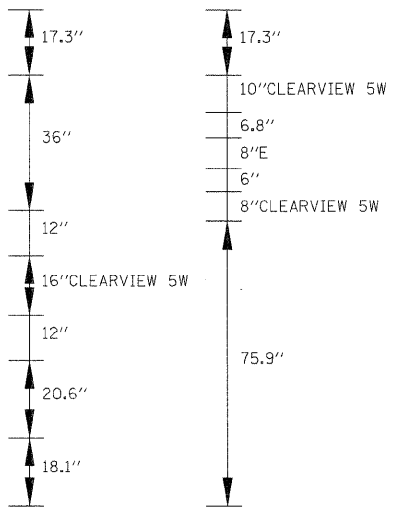
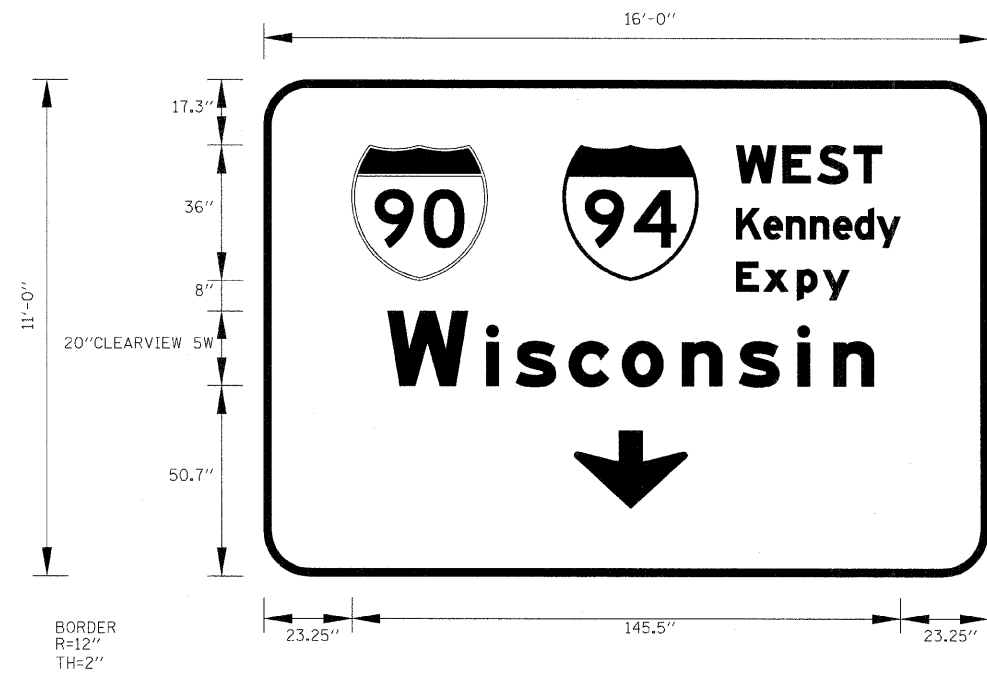
DESIGNED - DSE	200
CHECKED - PT	
DRAWN - RTT	
CHECKED - PT	
DATE - SEPT 24, 2008	

EXAMINED
PASSED
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

Stanley Consultants Inc.
8501 West Higgins Road, Suite 730, Chicago, Illinois 60631-2801
www.stanleyconsultants.com
Illinois Firm Registration No.: 1184-001533

OVERHEAD SIGN STRUCTURES
RIGHT SUPPORT DETAILS

CIRCLE INTERCHANGE SIGN STRUCTURE
I-94/I-290
FROM I-290 EB RAMP
TO DES PLAINES AVE
F.A.I. 94/290-SECT. (2007-057T)
COOK COUNTY



NOTES:

ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE ZZ SHEETING.
 ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4".

FILE NAME =	USER NAME = 3690	DESIGNED - AAC	REVISED -
S:\11-CADD\01-sh\28-40_D16093-SHT-SIGN.STRUCTURE.dgn		DRAWN - TK	REVISED -
	PLOT SCALE = 0.08333341	CHECKED - DSE	REVISED -
	PLOT DATE = Thursday, December 11, 2008	DATE - 12/12/20	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGN PANEL LAYOUT			
SCALE:	SHEET NO. 13 OF 13 SHEETS	STA. 19+00	TO STA. 19+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2007-05TT	COOK	60	40
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D93	

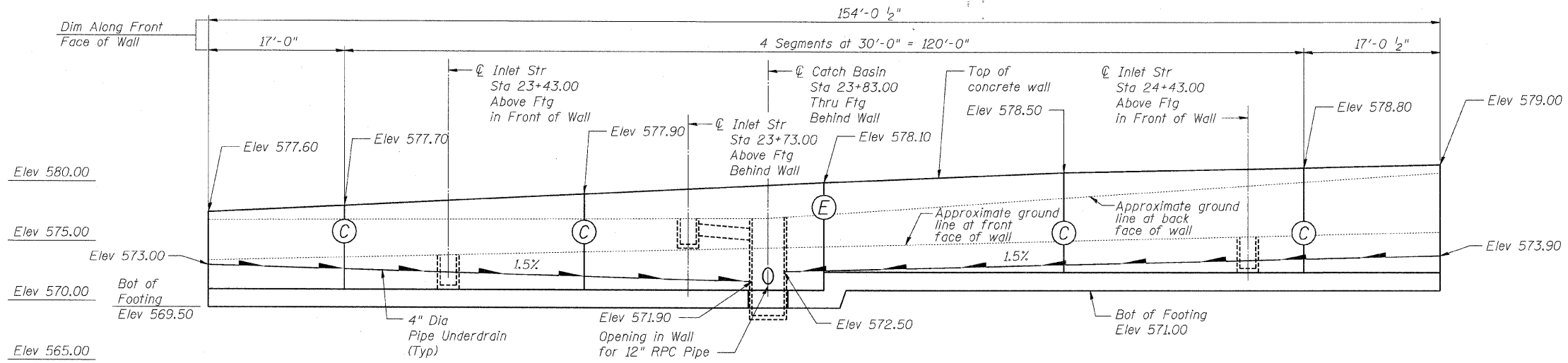
BENCHMARK:

BM #2 Chicago city standard BM 5' north of north line of Washington & 50' east of east line of Ashland. Elevation 595.34

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET REC.
290	2007-057 T	COOK	60	41	4

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT: Contract #60D93



SOUTH ELEVATION
(Looking North)

DESIGN SPECIFICATIONS

AASHTO 2002 Standard Specification for Highway Bridges.

DESIGN STRESSES

$f'_c = 3,500$ PSI
 $f_y = 60,000$ PSI
Maximum Allowable Soil Bearing Pressure = 1,500 PSF

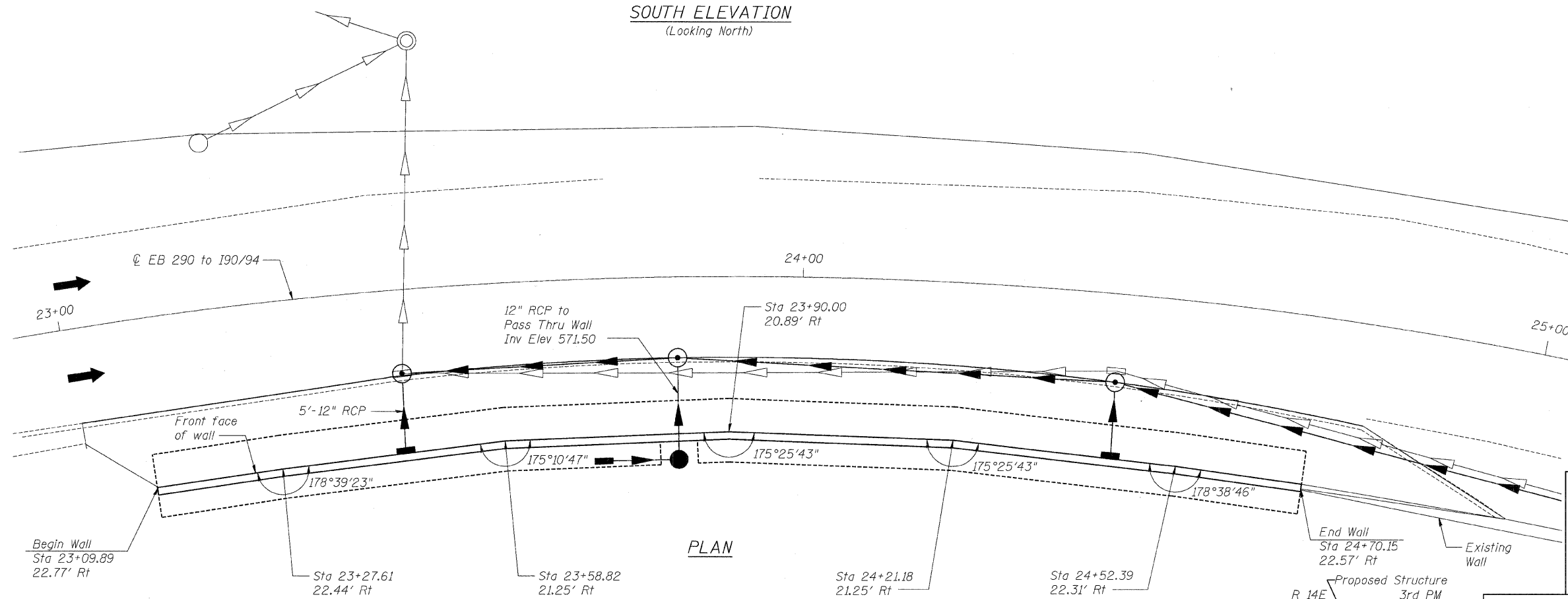
NOTES:

- (E) Expansion Joint in wall stem. (See Sheet 4 of 4 for detail)
- (C) Construction Joint in wall stem or footing. (See Detail on Sheet 4 of 4)

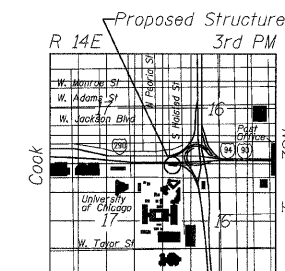


EXPIRATION DATE: 11-30-2008

DATE: _____



PLAN



LOCATION SKETCH

DESIGNED	NDR
CHECKED	DSE
DRAWN	TWK
CHECKED	NDR

Stanley Consultants INC.
8501 West Higgins Road, Suite 730, Chicago, Illinois 60631-2801
www.stanleyconsultants.com
Illinois Firm Registration No.: 1184-001533

GENERAL PLAN & ELEVATION
I-94/I-290
FROM I-290 EB RAMP
TO DES PLAINES AVE
F.A.I. 94/290-SECT. (2007-057T)
COOK COUNTY
STATION 23+09.89

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELEVATION CHART

**LENGTH FROM EAST END OF WALL	**STATION AT FRONT FACE OF WALL (ft)	TOP OF WALL ELEVATION AT FRONT FACE OF WALL (ft)	HEIGHT OF WALL (ft)
0	23+09.89	577.60	8.1
17'-0"	23+27.61	577.70	8.2
47'-0"	23+58.82	577.90	8.4
77'-0"	23+90.00	578.10	8.6
107'-0"	24+21.18	578.50	7.5
137'-0"	24+52.39	578.80	7.8
154'-0 1/2"	24+70.15	579.00	8.0

** Measured along front face of retaining wall.

ROUTE NO.	SECTION	COUNTY	STATE SHEETS	SHEET NO.	SHEET NO.
290	2007-059 T	COOK	60	42	2

4 SHEETS

Contract #60D93

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment (Special)	Cu Yd	80.0
Structure Excavation	Cu Yd	573.0
Concrete Structures	Cu Yd	110.5
Reinforcement Bars, Epoxy Coated	Pound	8,760
Protective Coat	Sq Yd	128
Geocomposite Wall Drain	Sq Yd	77.0
Pipe Underdrain for Structures, 4"	Foot	160.3

INDEX OF DRAWINGS

Sheet No.	Title
1 of 4	General Plan & Elevation
2 of 4	General Notes & Total Bill of Material
3 of 4	Wall Plan and Elevation
4 of 4	Wall Details & Bar Schedule

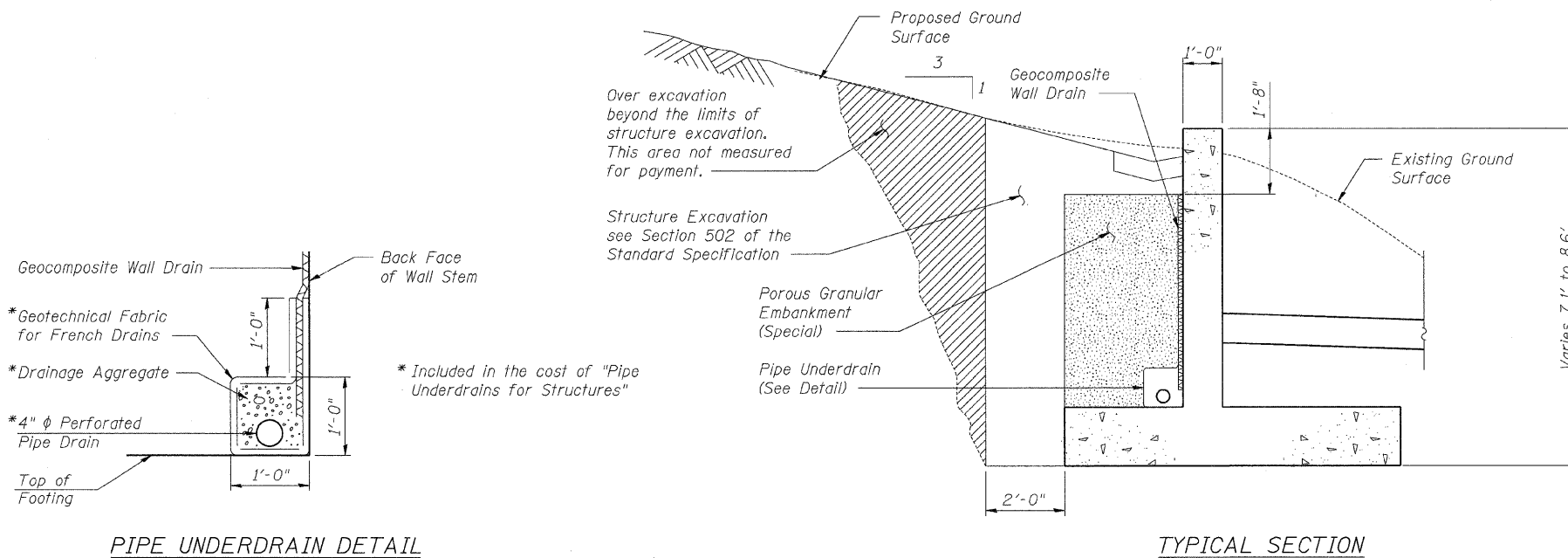
GENERAL NOTES

- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.
- Cover from face of concrete to face of reinforcement bars shall be 3" for surfaces formed against earth and 2" for all other surfaces unless otherwise shown.
- Reinforcing bar bending dimensions are out to out.
- Reinforcement bars designated (E) shall be epoxy coated.
- Reinforcement bar splices shall be in accordance with the following table unless shown otherwise on the drawing.

Minimum Lap

Size	Lap
#4	1'-8"
#5	2'-2"

- No construction joints except those shown on the plans will be allowed unless ordered by the engineer.
- An application of Protective Coat shall be applied to the top and traffic face of the wall.
- Geocomposite wall drain is to be continuous over the entire length of the back face of the concrete wall.
- When excavating for the wall's footing, the Contractor shall use a method that will result in minimal disturbance to the underlying soil.
- Brace excavation at East end of wall adjacent to existing wall to prevent undermining existing wall. Cost of braced excavation shall be included in the pay item cost for Structure Excavation.



DESIGNED	NDR
CHECKED	DSE
DRAWN	TWK
CHECKED	DSE



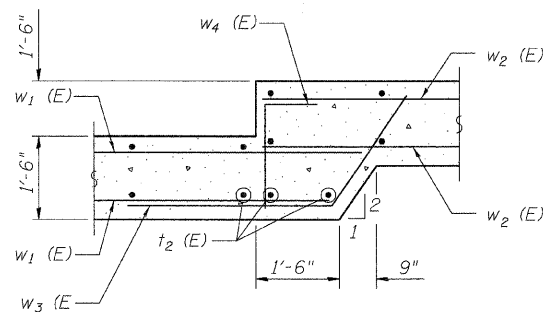
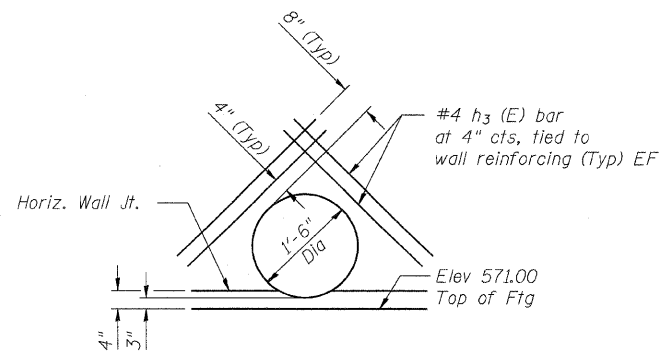
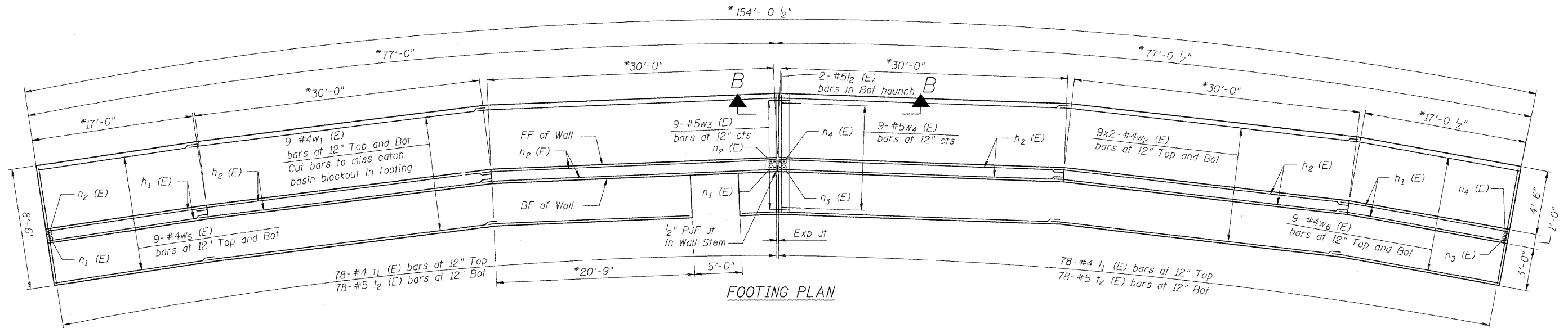
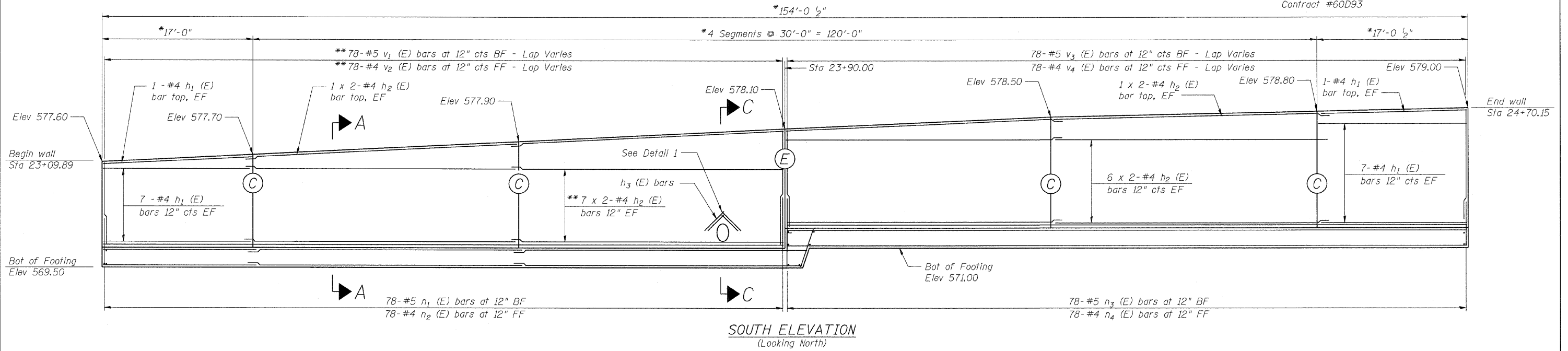
GENERAL NOTES & TOTAL BILL OF MATERIAL
CIRCLE INTERCHANGE RETAINING WALL
I-94/I-290
FROM I-290 EB RAMP
TO DES PLAINES AVE
F.A.I. 94/290-SECT. (2007-057T)
COOK COUNTY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
290	2007-0577	COOK	60	43
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 3
4 SHEETS

Contract #60D93



ABBREVIATION LIST

Bot	Bottom
BF	Back Face
Exp	Expansion
EF	Each Face
FF	Front Face
Jt	Joint
Typ	Typical

MIN BAR LAP

#4 bars = 1'-8"
#5 bars = 2'-2"

NOTES:

For Bill of Material See Sheet 4 of 4.

Bars Indicated Thus: 7 x 2- #4 Denotes 7 Lines of #4 Bars with 2 Lengths Per Line.

See Sheet 4 of 4 for Section A-A.

(E) Expansion Joint in wall stem. (See Sheet 4 of 4 for detail)

(C) Construction Joint in wall stem or footing. (See Detail on Sheet 4 of 4)

* Measured along FF of wall.

** Cut reinforcement as needed to miss Pipe opening in wall.

DESIGNED	NDR
CHECKED	DSE
DRAWN	TWK
CHECKED	NDR



Stanley Consultants INC.

8501 West Higgins Road, Suite 730, Chicago, Illinois 60631-2801
www.stanleyconsultants.com
Illinois Firm Registration No.: 1184-001533

**GENERAL PLAN & ELEVATION
CIRCLE INTERCHANGE RETAINING WALL**

**I-94/I-290
FROM I-290 EB RAMP
TO DES PLAINES AVE
F.A.I. 94/290-SECT. (2007-0577)
COOK COUNTY**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHTS	SHEET	SHEET NO.
290	2007-057 T	COOK	60	44	4 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

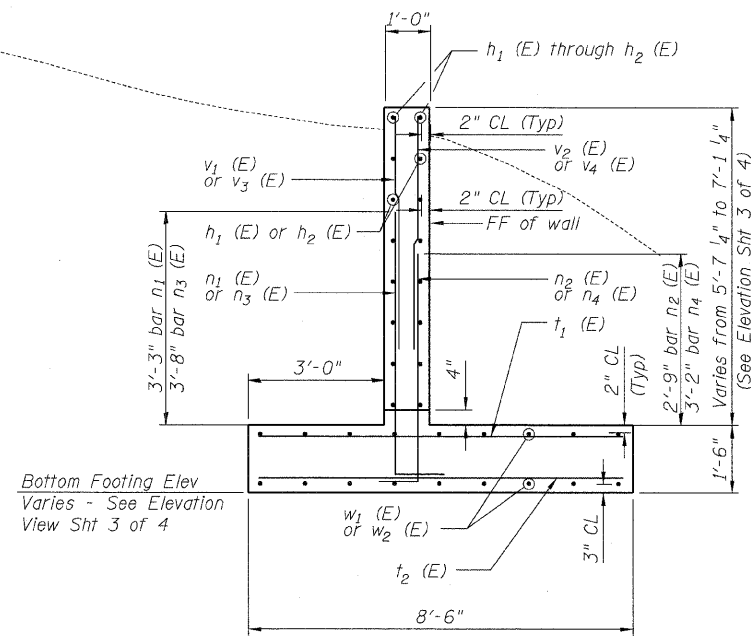
Contract #60D93

BILL OF MATERIAL

Bar	No.	Size	Length (ft)	Shape
h1 (E)	32	#4	16'-8"	
h2 (E)	60	#4	31'-10"	
h3 (E)	8	#4	3'-4"	
n1 (E)	78	#5	5'-3"	┘
n2 (E)	78	#4	4'-7"	┘
n3 (E)	78	#5	5'-8"	┘
n4 (E)	78	#4	5'-2"	┘
t1 (E)	156	#4	8'-2"	
t2 (E)	158	#5	8'-2"	
v1 (E)	78	#5	5'-11"	
v2 (E)	78	#4	5'-11"	
v3 (E)	78	#5	4'-11"	
v4 (E)	78	#4	4'-11"	
w1 (E)	36	#4	32'-2"	
w2 (E)	36	#4	30'-9"	
w3 (E)	9	#5	6'-5"	┘
w4 (E)	9	#5	4'-9"	┘
w5 (E)	18	#4	18'-8"	
w6 (E)	18	#4	19'-5"	
Structure Excavation		Cu Yd	573	
Concrete Structures		Cu Yd	110.5	
Reinforcing Steel, Epoxy Coated		Pound	8,760	

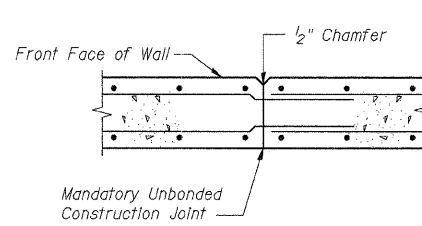
ABBREVIATION LIST

FF Front Face

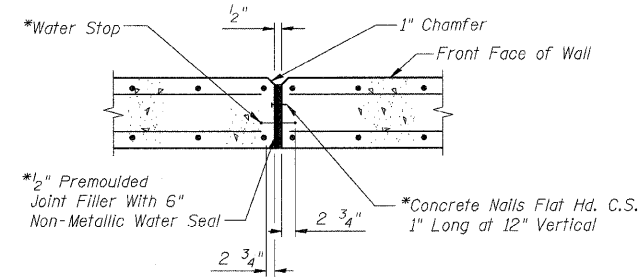


SECTION A-A

Bottom Footing Elev
Varies - See Elevation
View Sht 3 of 4



CONSTRUCTION JOINT DETAIL

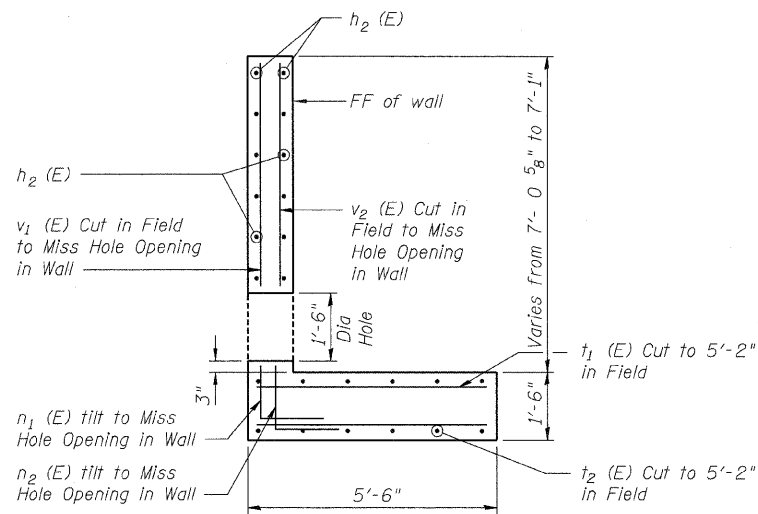


EXPANSION JOINT DETAIL

(Stem of Wall Only, Not In Footing)

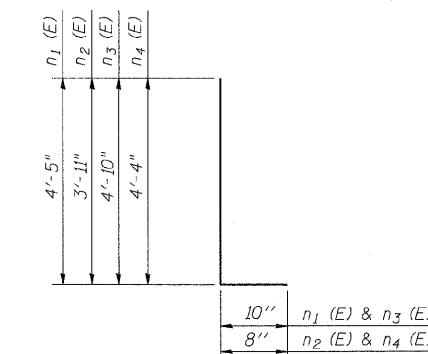
* Cost Included With
Concrete Structures

RETAINING WALL JOINT DETAILS

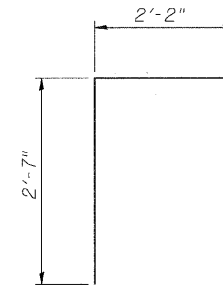


SECTION C-C

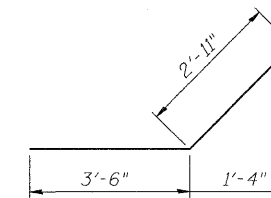
(Taken at CL of Pipe Sta 23+83)



BARS n₁ (E) Through n₄ (E)



BARS w₄ (E)



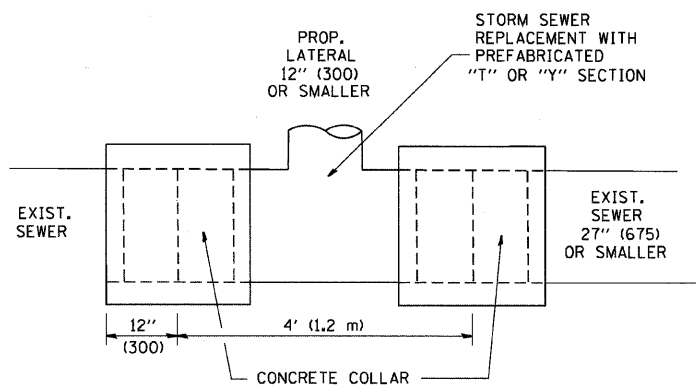
BARS w₃ (E)

DESIGNED	NDR
CHECKED	DSE
DRAWN	TWK
CHECKED	NDR

8501 West Higgins Road, Suite 730, Chicago, Illinois 60631-2801
www.stanleyconsultants.com
Illinois Firm Registration No.: 1184-001533

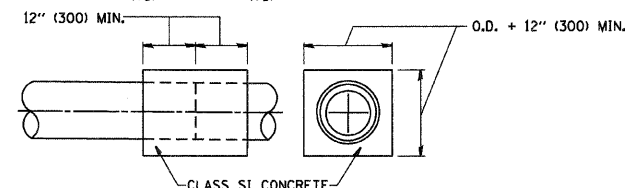
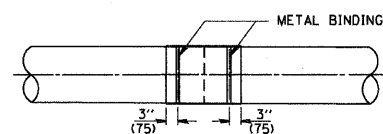
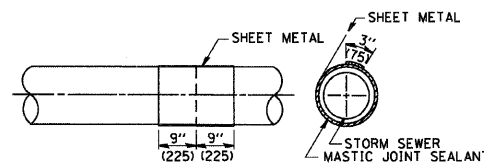
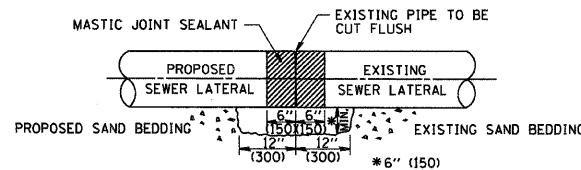
WALL DETAIL & BAR SCHEDULE
CIRCLE INTERCHANGE RETAINING WALL
I-94/I-290
FROM I-290 EB RAMP
TO DES PLAINES AVE
F.A.I. 94/290-SECT. (2007-057T)
COOK COUNTY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2007-057T	COOK	60	45
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27'' (675) OR SMALLER

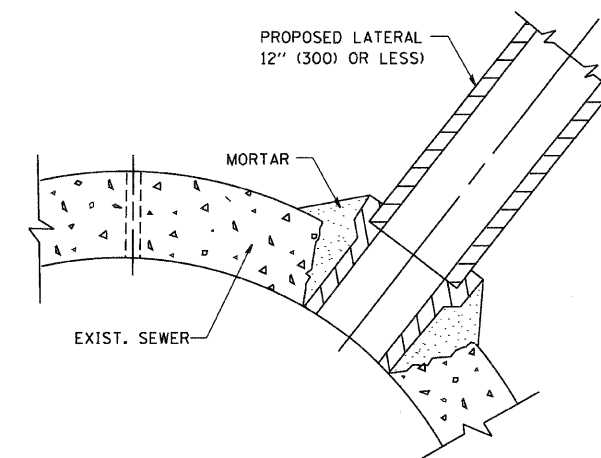


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

- CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
- APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6'' (150) OF EACH PIPE.
- BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12'' x 6'' (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
- CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18'' (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3'' (75) LONG.
- WRAP THE SHEET METAL AROUND THE PIPES, 9'' (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
- LAP THE SHEET METAL AT LEAST 3'' (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
- PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
- WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OZZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
- PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30'' (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27'' (675) OR SMALLER SEE DETAIL "A" AND "B".
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30'' (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

REVISIONS	
NAME	DATE
M. DE YONG	07/25/90
M. DE YONG	02/05/92
M. DE YONG	05/08/92
R. SHAH	09/09/94
R. SHAH	10/25/94
R. SHAH	06/12/96

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAIL OF STORM SEWER
CONNECTION TO EXISTING SEWER

SCALE: VERT. NONE
HORIZ.

DRAWN BY
CHECKED BY

BD500-01 (BD-7)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2007-057E	COOK	60	46
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001

18" (450) MAX.

EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

1/4" (5) **

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SALT TOLERANT SOD AND TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

3" (75) MIN.

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

BASIS OF PAYMENT:

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SALT TOLERANT SOD AND TOP SOIL, 4" (100) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

② CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

③ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

④ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑤ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑦ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

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

REVISIONS	
NAME	DATE
A. HOUSEH	03/11/94
R. SHAH	02/24/95
R. SHAH	03/02/95
R. SHAH	08/19/96
R. SHAH	09/12/96
R. SHAH	09/19/96
R. SHAH	10/03/96
A. ABBAS	03/21/97
M. GOMEZ	01/22/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

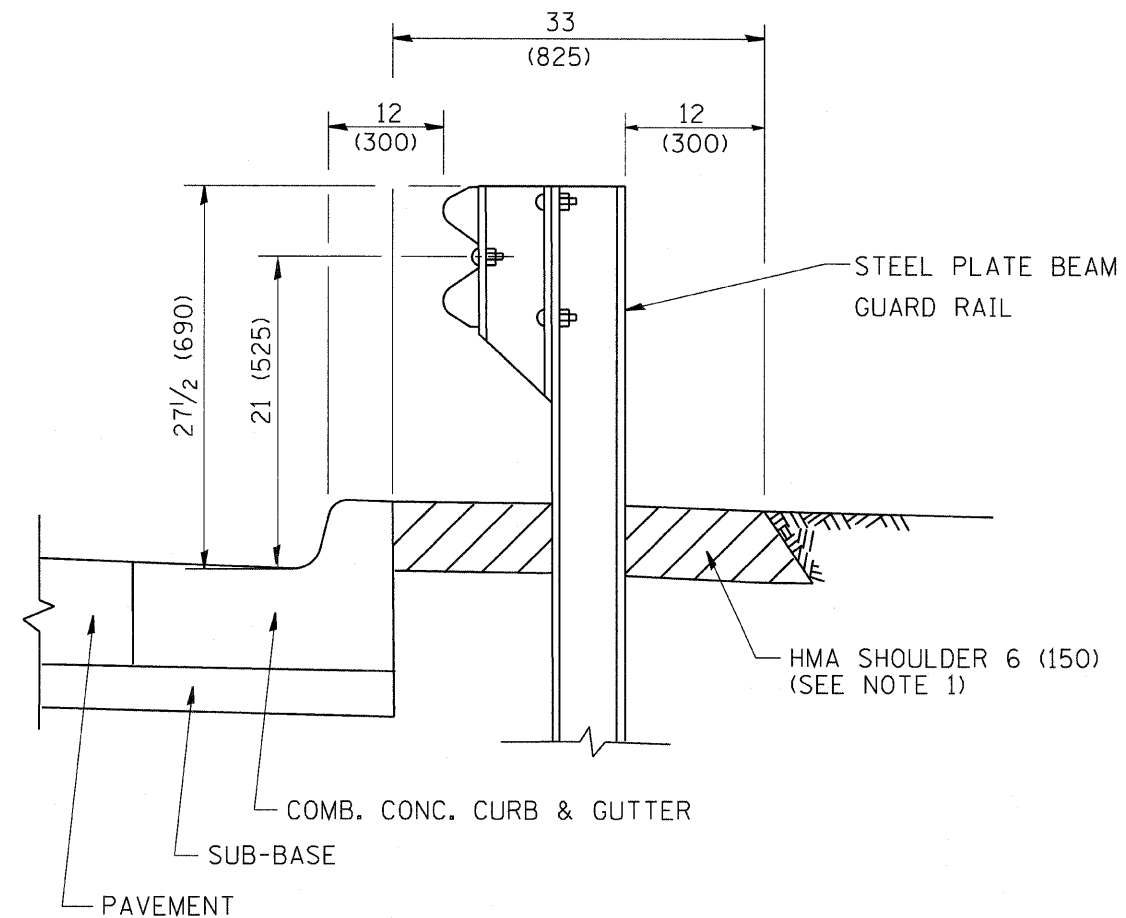
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

SCALE: VERT. NONE
HORIZ.

DRAWN BY
CHECKED BY
BD600-06 (BD-24)

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
230	2007-057T	COOK	60	47
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

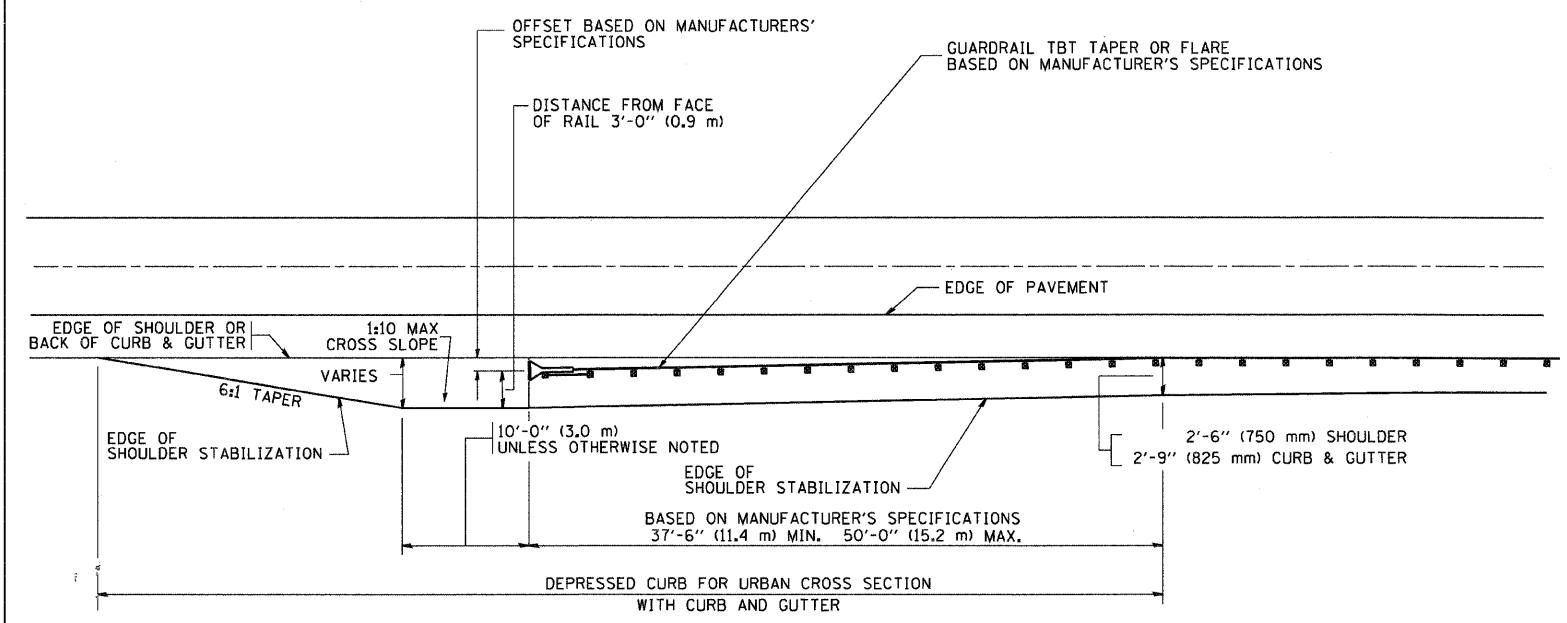


- NOTES: 1. THE HMA SHOULDER SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL
2. GUARD RAIL MAY BE PLACED AT THE BACK OF CURB WHEN DIRECTED BY THE ENGINEER.

BASIS OF PAYMENT: HMA SHOULDER 6 (150) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDER 6" (150 mm)".

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

DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER [FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]



STABILIZATION AT TBT TY. 1 SPL.

TBT = TRAFFIC BARRIER TERMINAL
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
M. DE YONG	09-22-90
M. DE YONG	07-14-92
R. SHAH	09/09/94
R. SHAH	10/25/94
R. SHAH	02/23/95
A. ABBAS	03/21/97
E. GOMEZ	08/28/00
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER STABILIZATION AT TBT TY 1 SPL.

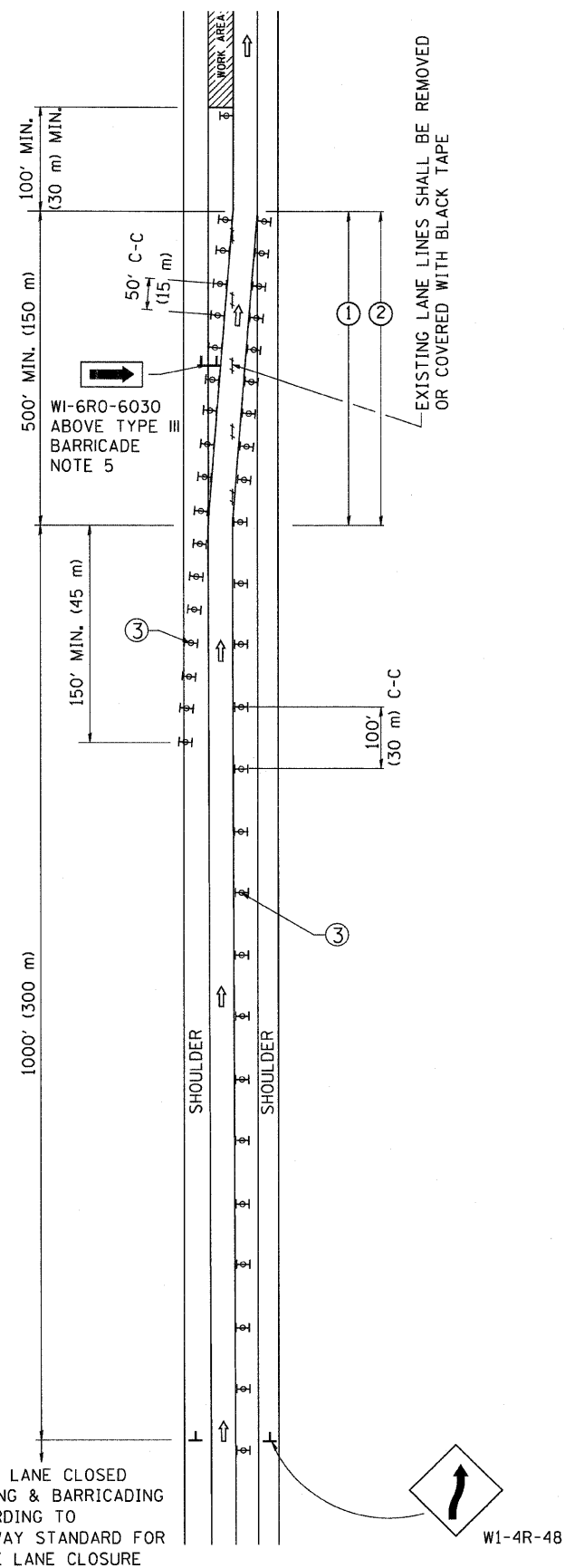
SCALE: VERT. NONE
HORIZ. NONE

DRAWN BY jls
CHECKED BY

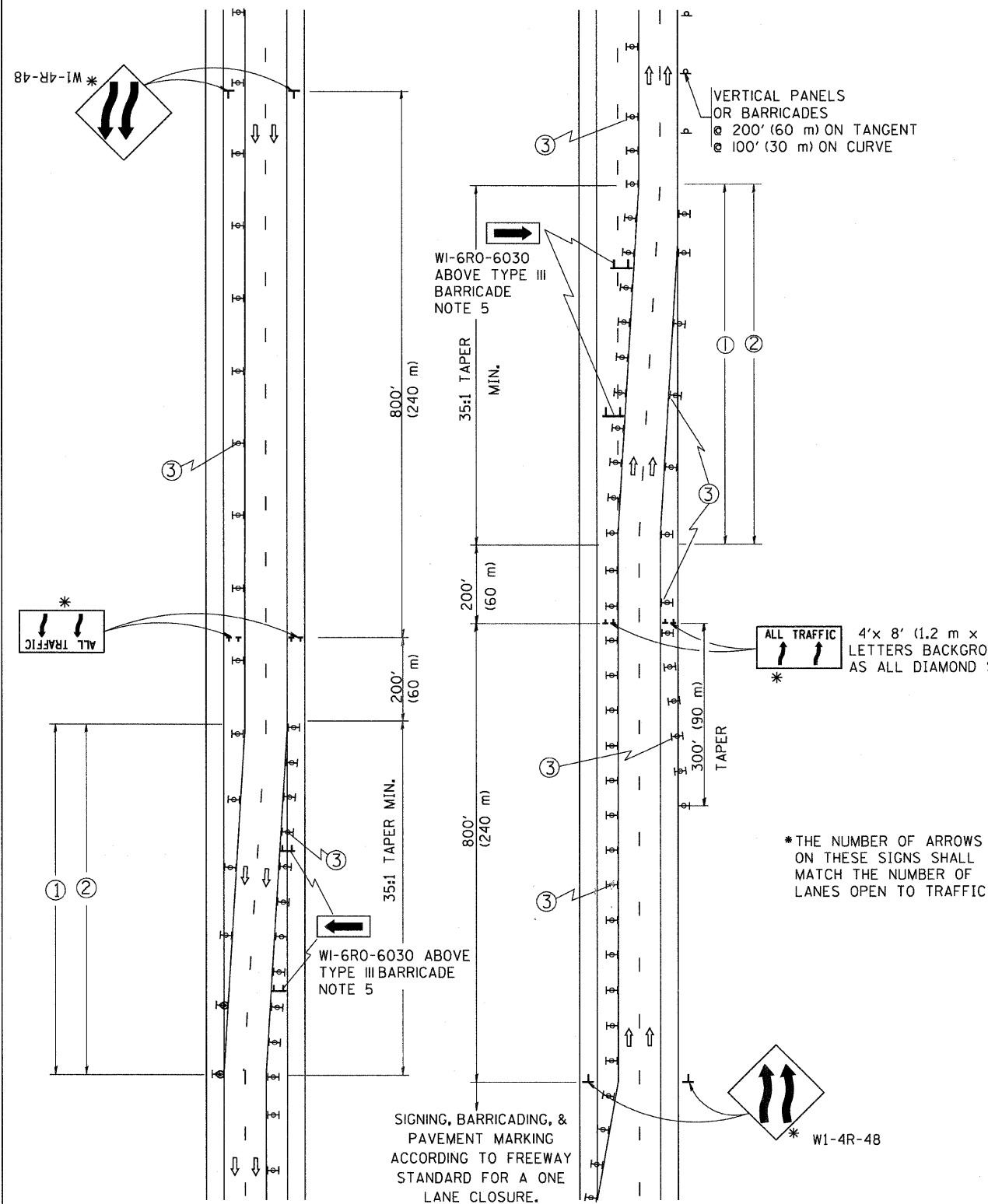
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PLOT SCALE = 1/8"=1'-0"
USER NAME = bbornd

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2807-0572	COOK	60	48
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES

- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED OR COVERED WITH BLACK TAPE. PAVEMENT MARKING REMOVAL OR BLACK TAPE SHALL NOT BE REQUIRED FOR LANE CLOSURES UNDER 24 HOURS IN DURATION.
- CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVE LANE LINES SHALL BE 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS DIRECTLY IN FRONT OF THE BARRICADE.
- IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.

SYMBOLS

- ↑ DIRECTION OF TRAFFIC
- ▨ WORK AREA
- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT
- ⊥ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
DWS	2/87
DWS	1/90
DWS	12/27/94
DWS	11/96
JAF	4/03
JAF	2/06
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL DETAILS
FOR FREEWAY
SINGLE & MULTI-LANE WEAVE

SCALE: NONE

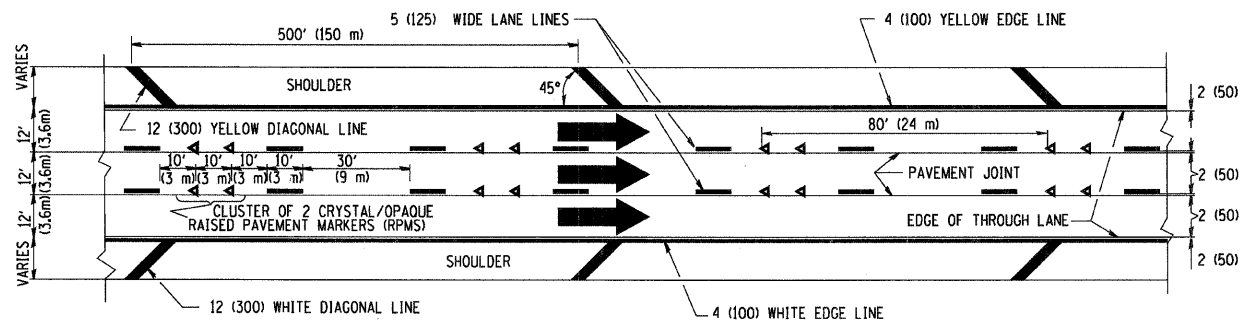
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CHECKED BY

TC-9

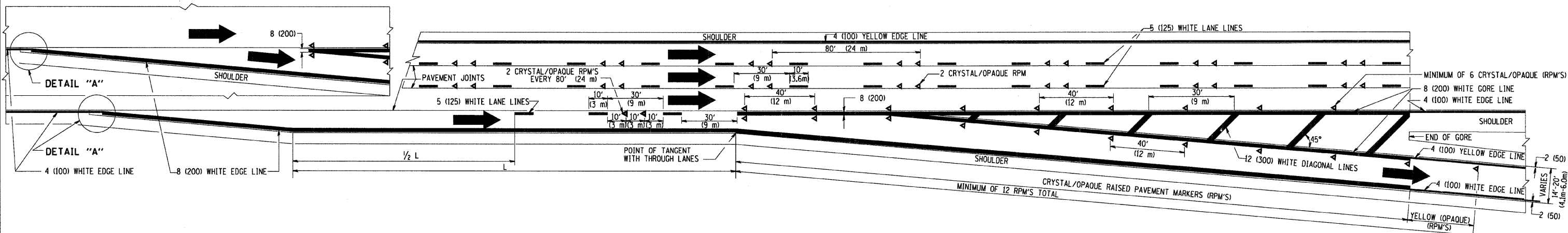
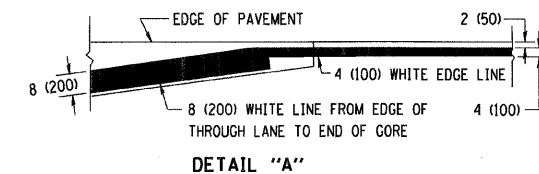
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2007-C57E	COOK	60	49
STA. TO STA.		ILLINOIS FED. AID PROJECT		

THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH
 THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH

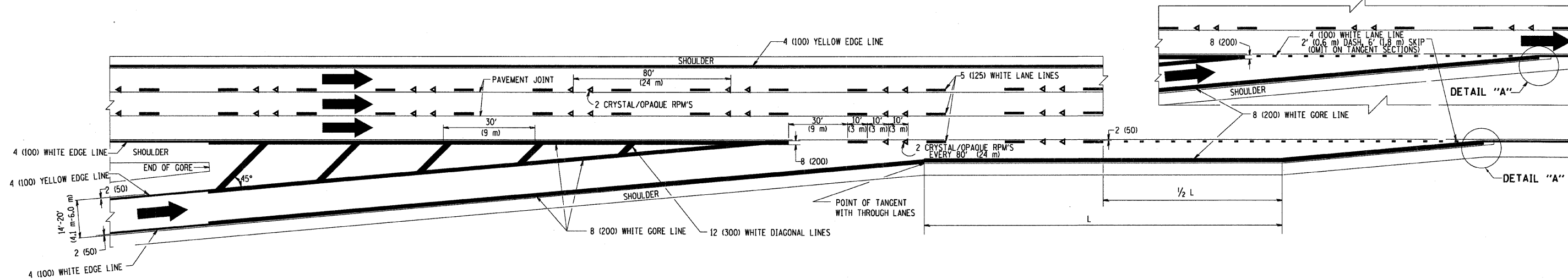


TYPICAL EDGE LINES & LANE LINES

- NOTES:
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
 2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE SHALL BE USED FOR ALL LANE LINES ON BITUMINOUS PAVEMENT
 3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC



TYPICAL EXIT RAMP PAVEMENT MARKINGS



TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS

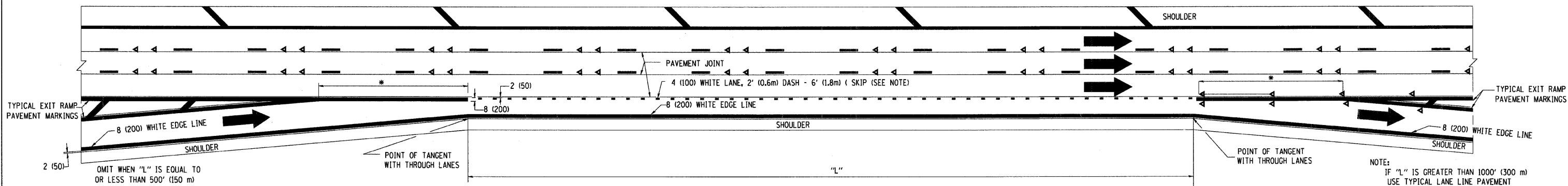
REVISIONS	
NAME	DATE
DWS	1/90
DWS	5/91
AH	3/96
DWS	7/96
JAF	2/06
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MULTI-LANE FREEWAY
 PAVEMENT MARKING
 DETAILS

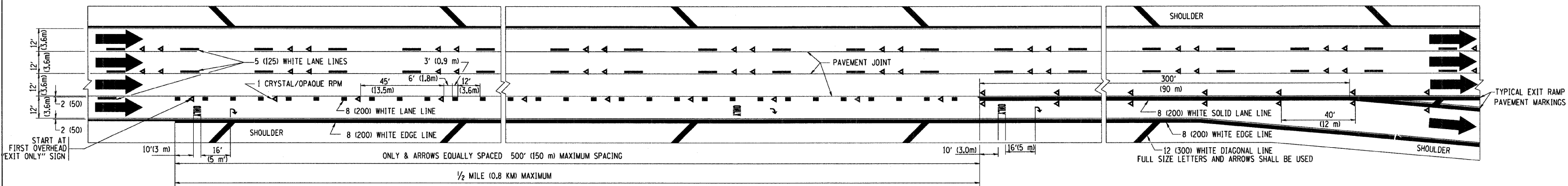
SCALE: NONE
 DRAWN BY C.A.D.D.
 CHECKED BY
 TC12 SHEET 1 OF 2

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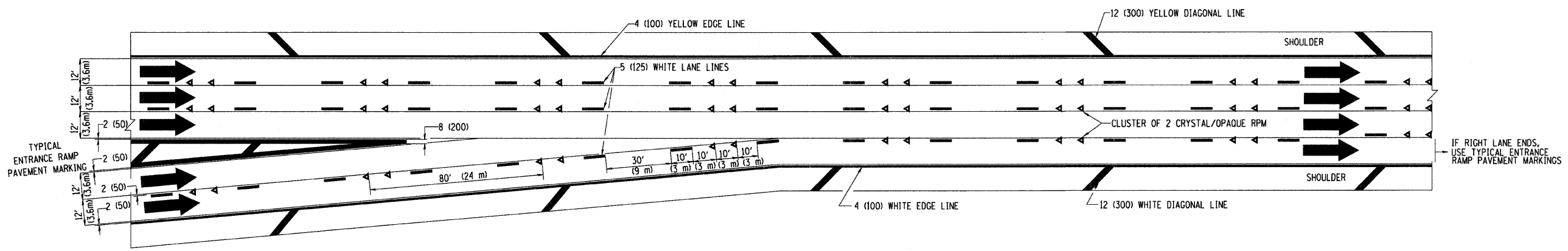
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290	2007-0577	COOK	60	5C
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL ENTRANCE/EXIT RAMP COMBINATION PAVEMENT MARKINGS



TYPICAL EXIT ONLY LANE PAVEMENT MARKINGS



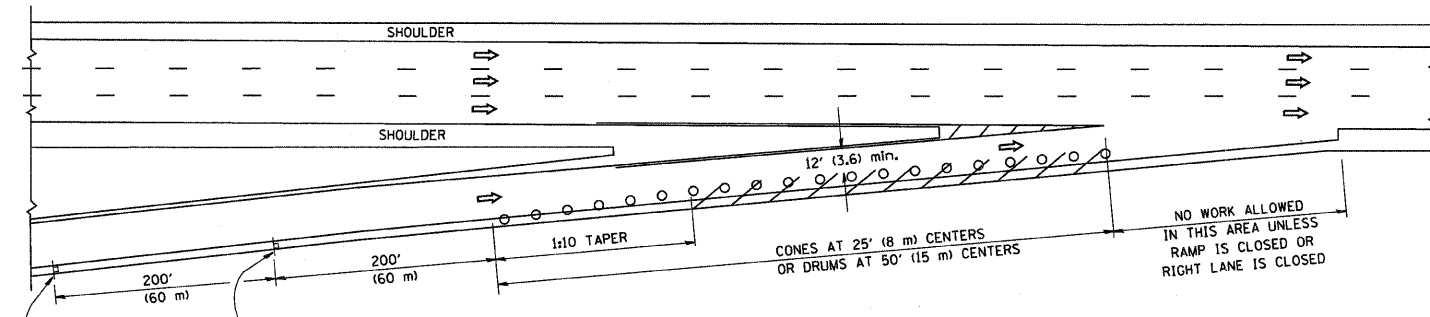
TYPICAL TWO LANE ENTRANCE RAMP PAVEMENT MARKINGS

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 USER NAME = bboard

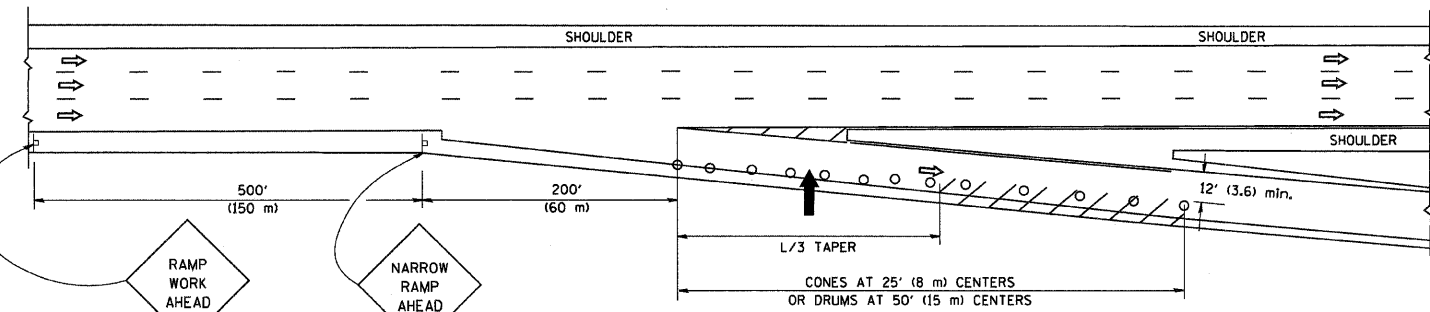
REVISIONS	
NAME	DATE
DWS	1/90
DWS	5/91
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
**MULTI-LANE FREEWAY
 PAVEMENT MARKING
 DETAILS**
 SCALE: NONE
 DRAWN BY C.A.D.D.
 CHECKED BY
 TC12 SHEET 2 OF 2

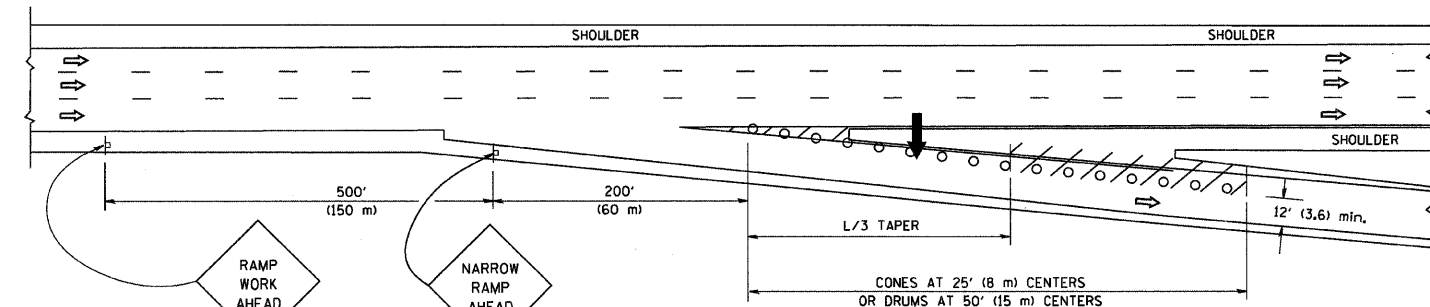
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

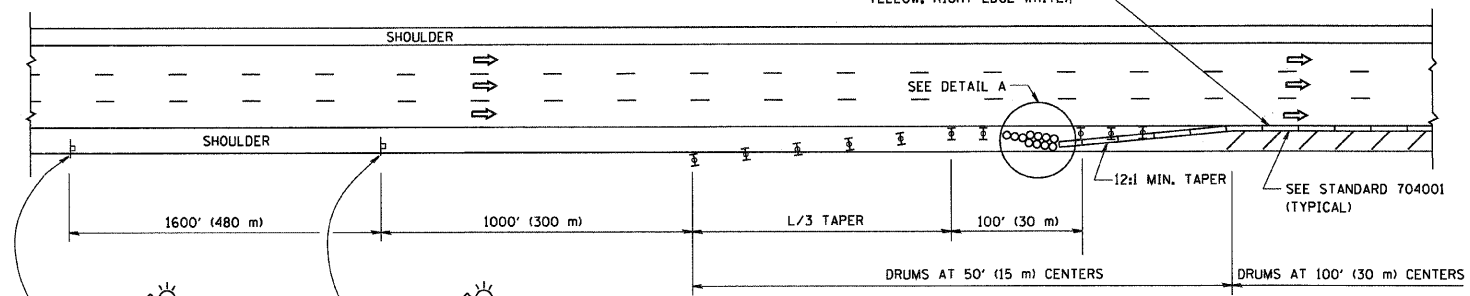
- ARROWBOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

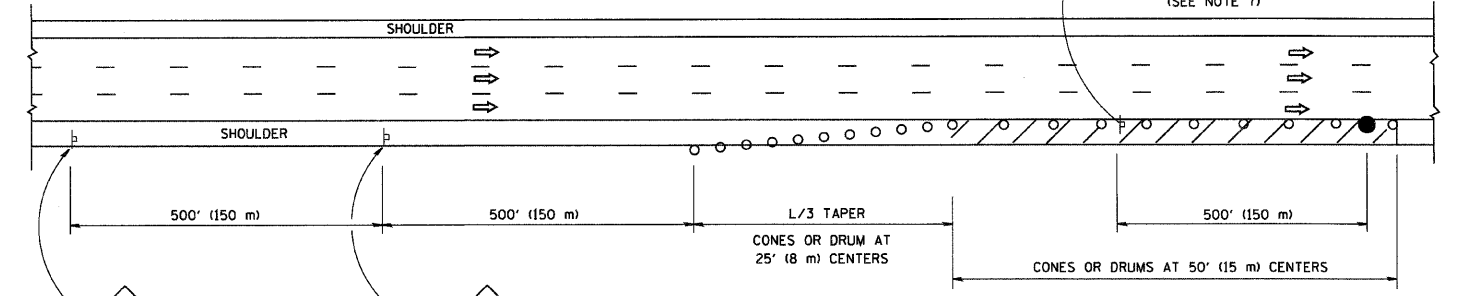
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH
	$L = 0.65(W)(S)$ $L = (W)(S)$
	W = WIDTH OF OFFSET IN FEET (METERS)
	S = NORMAL POSTED SPEED MPH (KM/H)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS



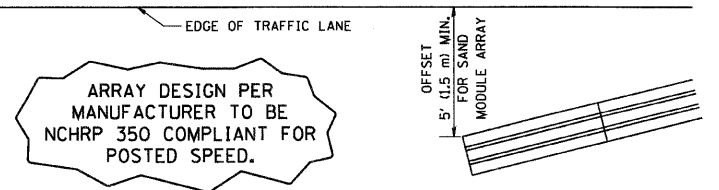
PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

OR WHEN SPECIFIED INSTALL TEMPORARY CONCRETE BARRIER WALL WITH BARRIER WALL REFLECTORS PER TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)

THIS DETAIL IS USED WHERE:
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRANCH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



DETAIL "A"
 IMPACT ATTENUATOR, TEMPORARY
 (SEE NOTE 5)

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE "TRAFFIC BARRIER TERMINAL, TYPE III, TEMPORARY" DEVICE TO MEET NCHRP350 FOR POSTED SPEED.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCRANCHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.

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

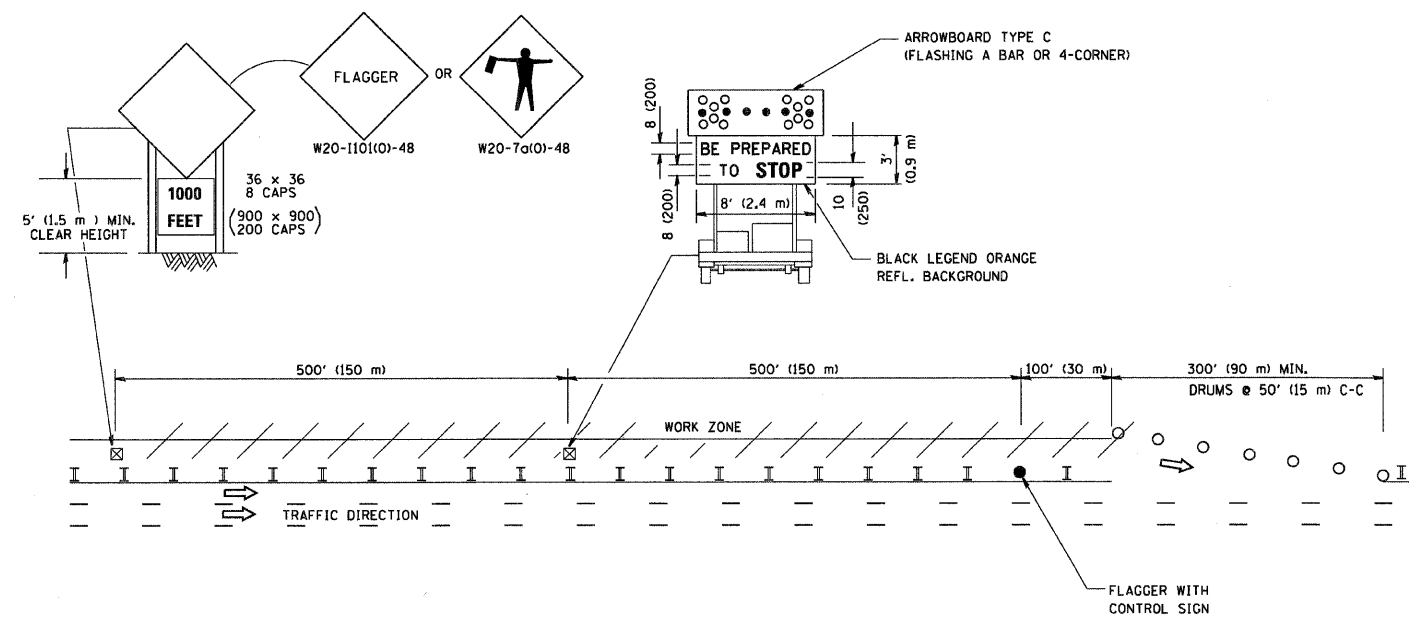
REVISIONS	
NAME	DATE
DWS	11/96
JAF	12/02
NCHRP 350	04/03
JAF	2/06
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES PARTIAL RAMP CLOSURES
 DESIGNED BY: DWS
 DRAWN BY:
 CHECKED BY:
 SCALE: NONE
 TC-17

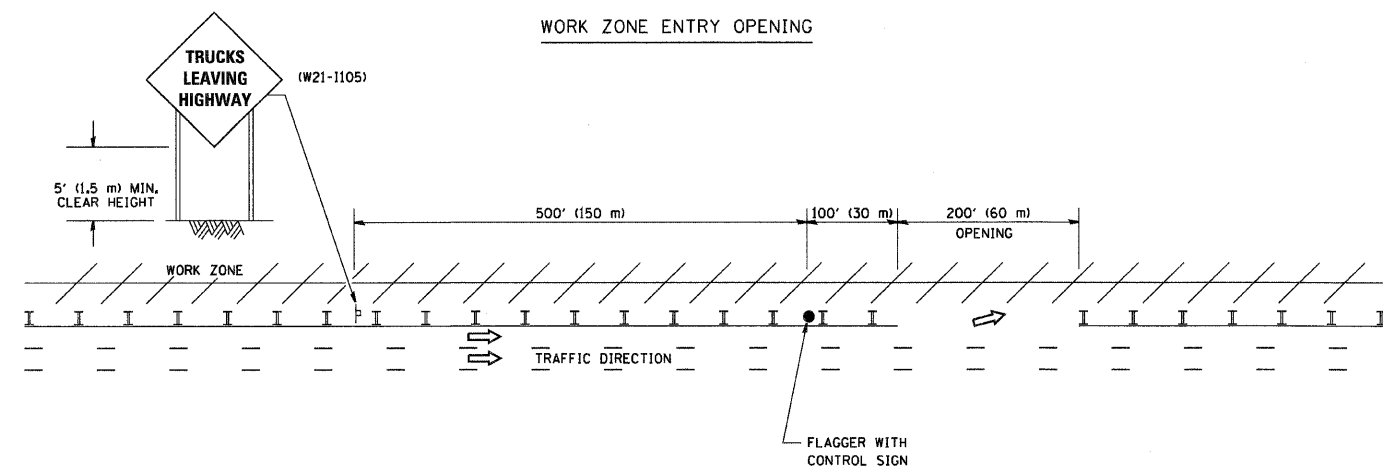
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
230	2007-357E	COOK	60	52
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases.
2. Work Zone Exit Openings should be a minimum of one half mile apart.
3. Exiting the work zone at any place other than at a Work Zone Exit Opening will be prohibited.
4. All vehicles shall enter the work zone at entry openings, using their turn signals to warn motorists

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

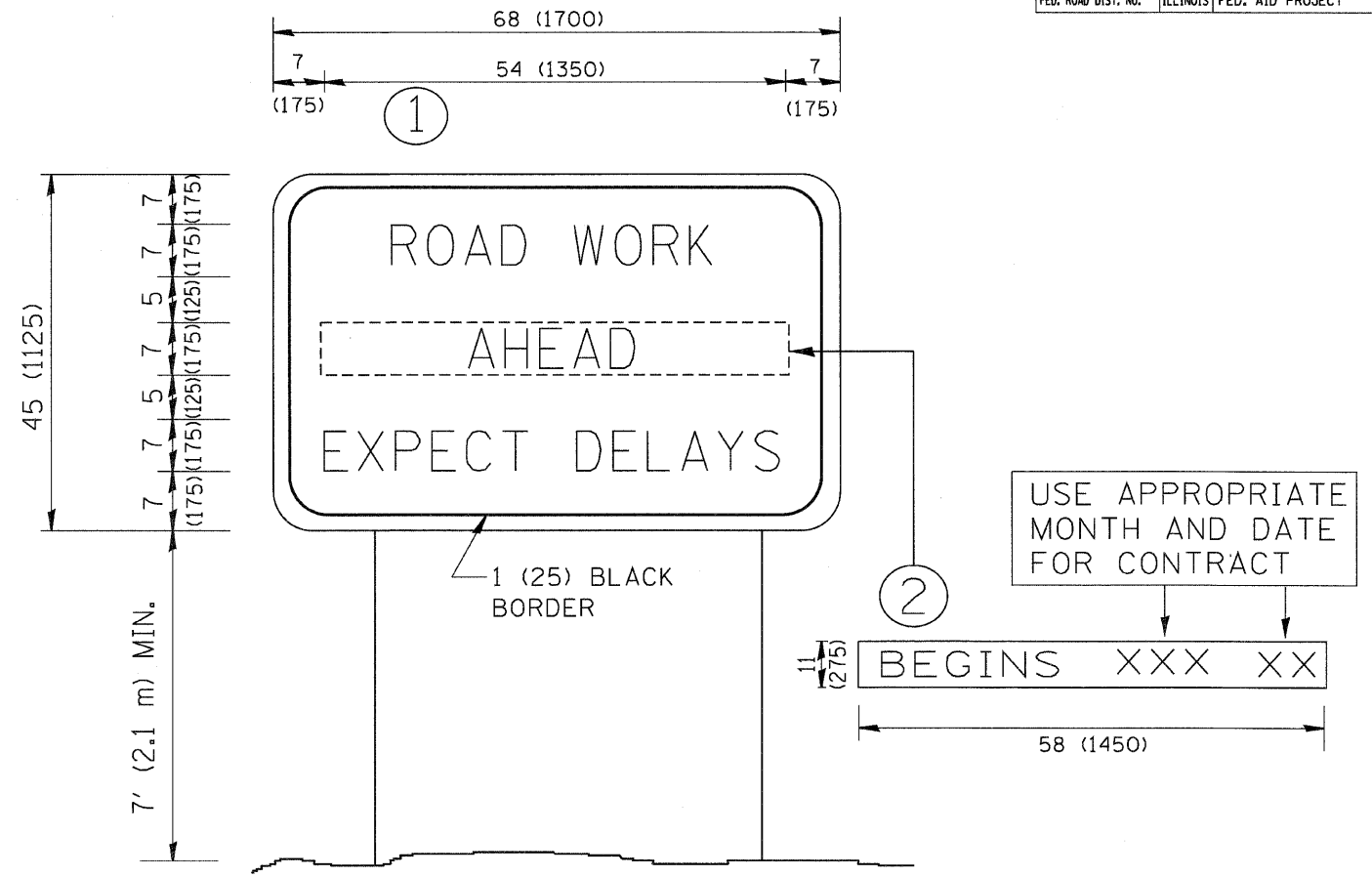
REVISIONS	
NAME	DATE
DWS	8/98
JAF	4/03
JAF	2/06
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
SIGNING FOR FLAGGING OPERATIONS
AT WORK ZONE OPENINGS

SCALE: NONE

DRAWN BY CADD
CHECKED BY
TC-18

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2007-057T	COOK	60	53
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES:

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

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

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99
C. JUCIUS	1-31-07

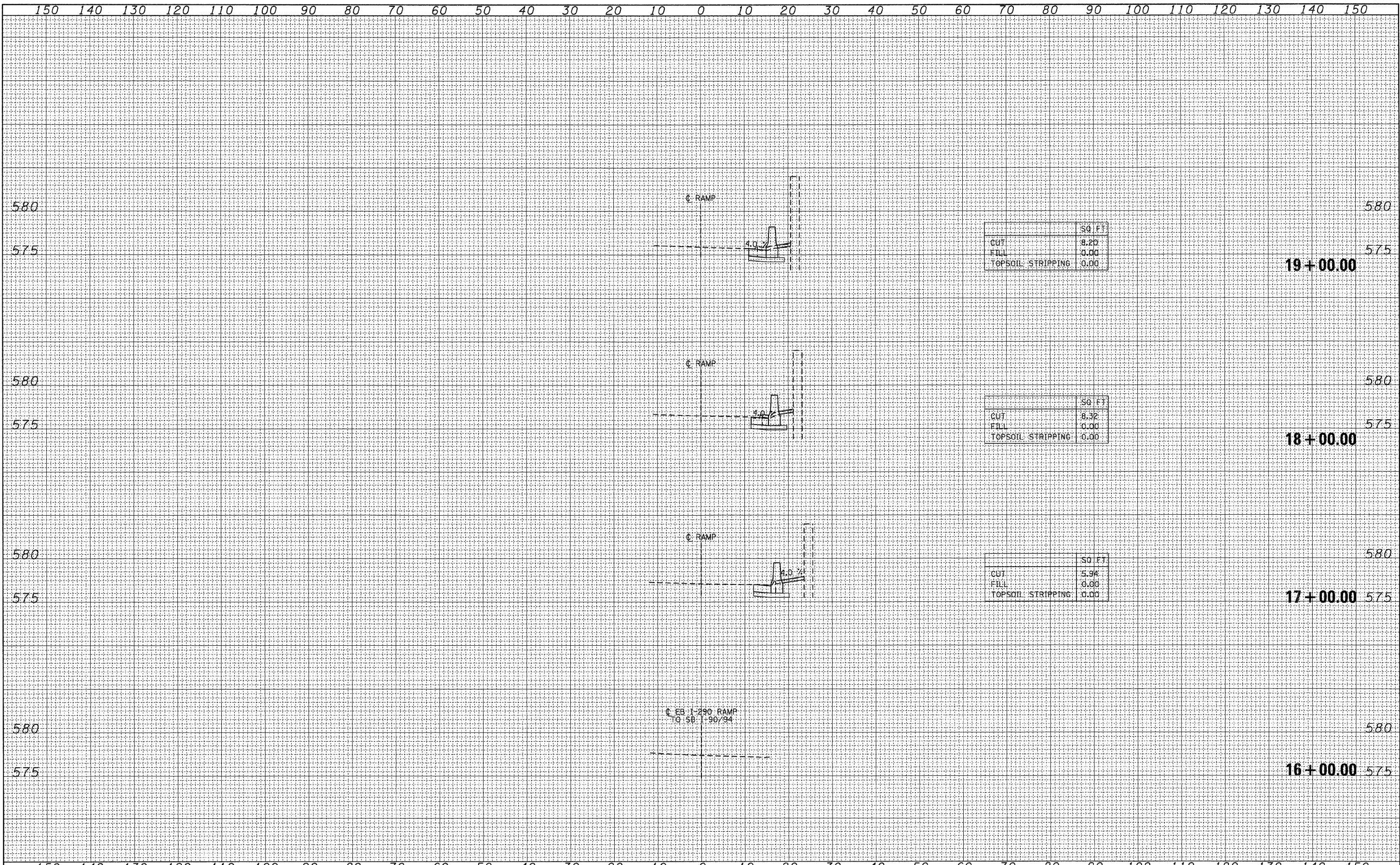
ILLINOIS DEPARTMENT OF TRANSPORTATION
**ARTERIAL ROAD
 INFORMATION SIGN**

SCALE: NONE

DRAWN BY DESIGN

CHECKED BY

TC22



BY _____ DATE _____

FINAL SURVEY _____

NOTE BOOK _____

NO. _____

SURVEYED _____

PLANNED _____

DATE _____

AREAS CHECKED _____

BY _____ DATE _____

ORIGINAL SURVEY _____

NOTE BOOK _____

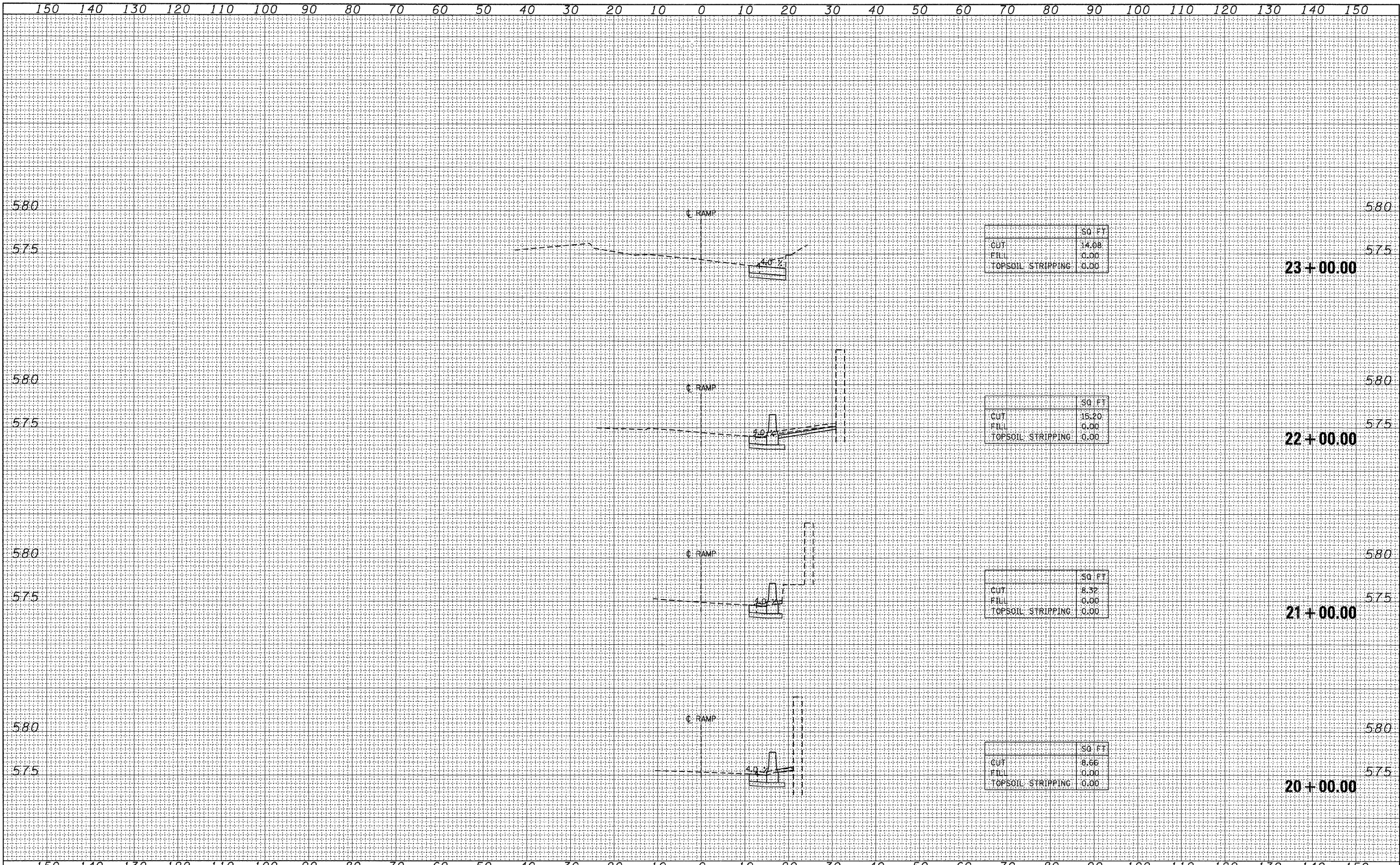
NO. _____

SURVEYED _____

PLANNED _____

DATE _____

AREAS CHECKED _____



FINAL SURVEY BY DATE
 SURVEYED BY
 CHECKED BY
 NOTE BOOK NO.
 TEMPLATE AREAS CHECKED

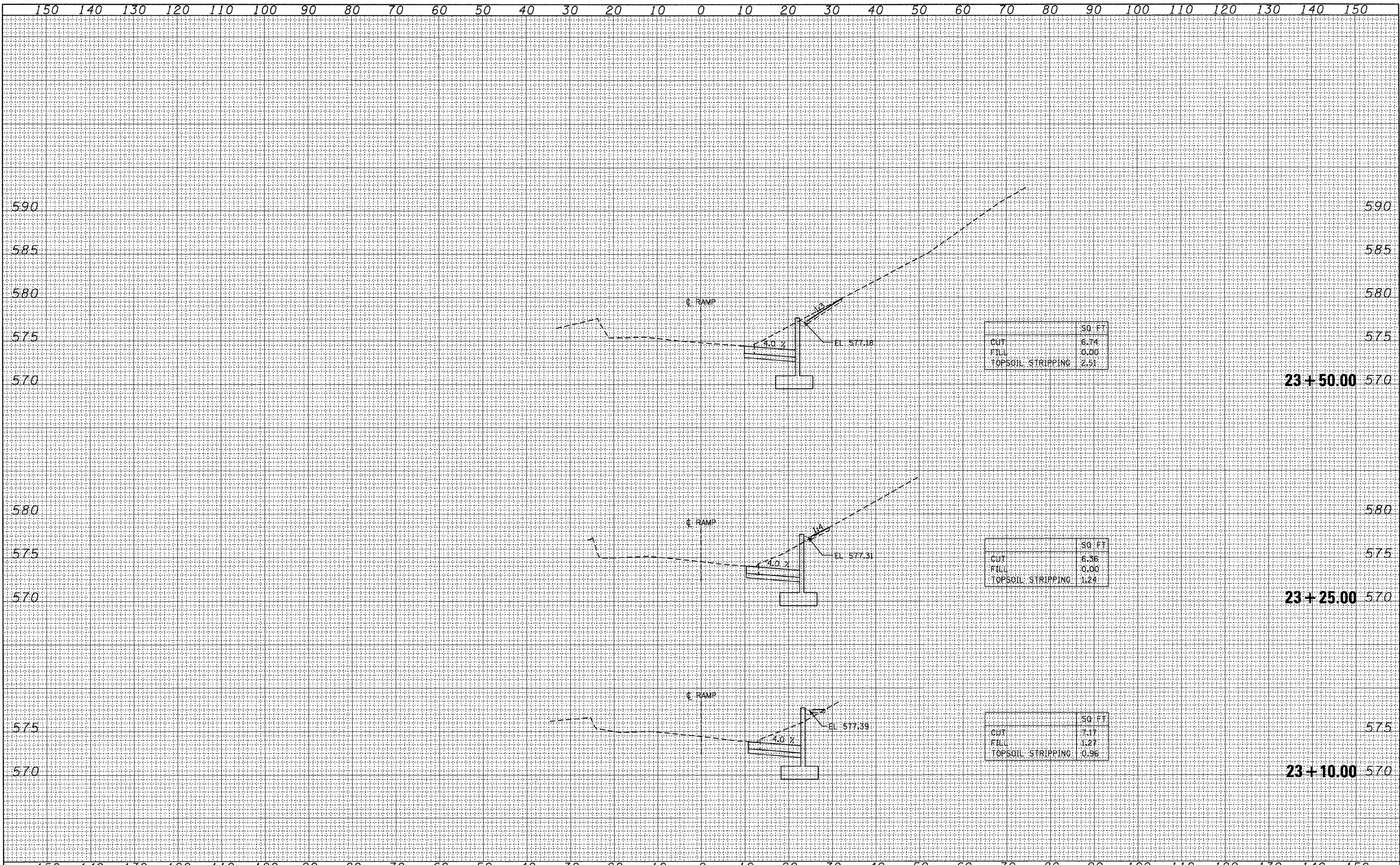
ORIGINAL SURVEY BY DATE
 SURVEYED BY
 CHECKED BY
 NOTE BOOK NO.
 TEMPLATE AREAS CHECKED

FILE NAME = S:\11-CADD\05-gpak\dgn\116093-xso.dgn
 USER NAME = 3690
 DESIGNED - NDR
 DRAWN - NDR
 CHECKED - AAC
 DATE - 12/12/2008
 REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 SCALE: SHEET NO. 2 OF 7 SHEETS STA. 20+00.00 TO STA. 23+00.00

F.A.I. RTE. 290	SECTION 2007-057 T	COUNTY COOK	TOTAL SHEETS 60	SHEET NO. 55
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
CONTRACT NO. 60D93				



FINAL SURVEY	DATE
NOTE BOOK NO.	BY
AREAS CHECKED	

ORIGINAL SURVEY	DATE
NOTE BOOK NO.	BY
AREAS CHECKED	

FILE NAME = S:\11-CADD\05-gpak\dsgn\0160093-xso.dgn	USER NAME = 3690	DESIGNED - NDR	REVISED -
PLOT SCALE = 10:1	CHECKED - AAC	DRAWN - NDR	REVISED -
PLOT DATE = Thursday, December 11, 2008	DATE - 12/12/2008		REVISED -

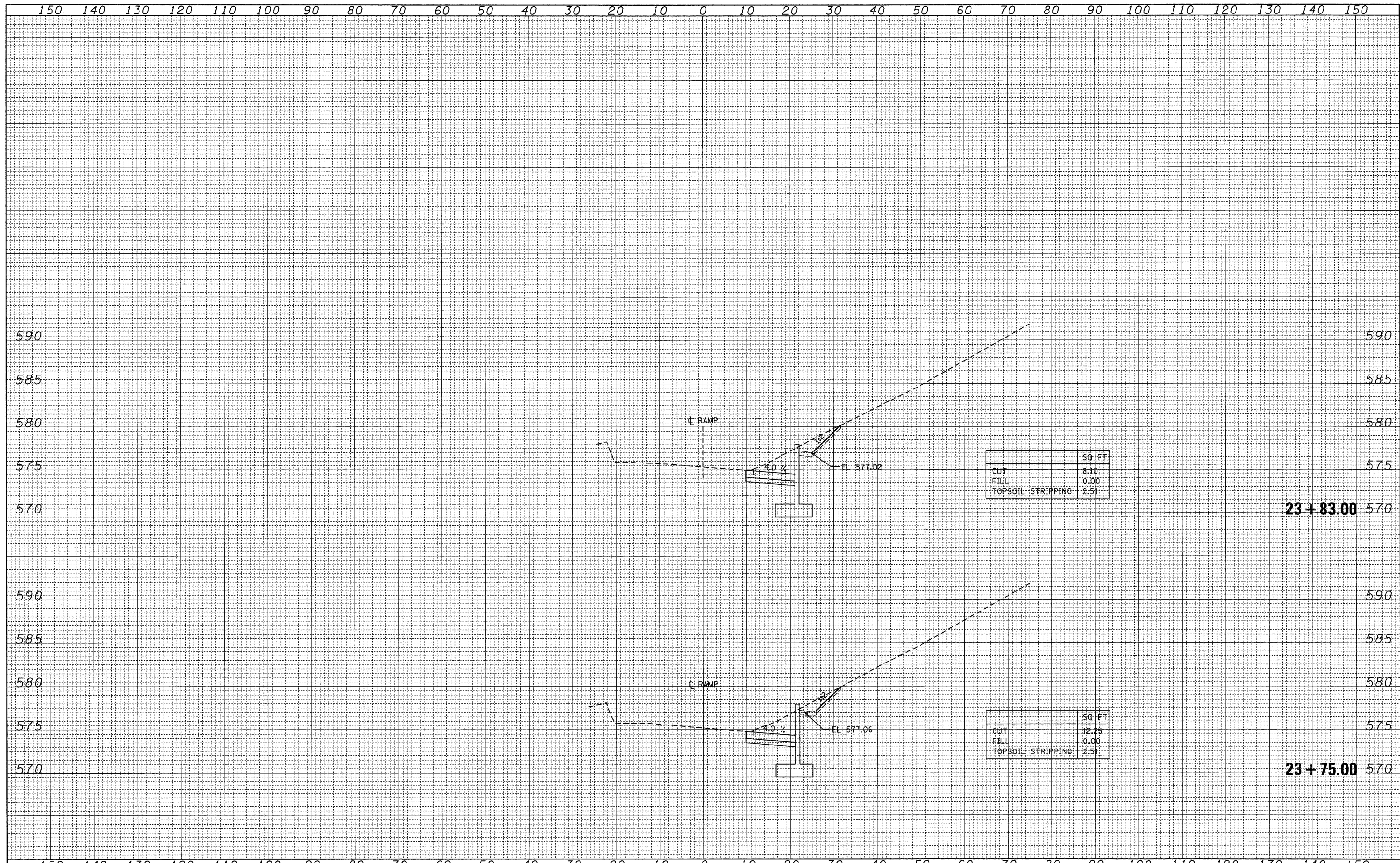
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

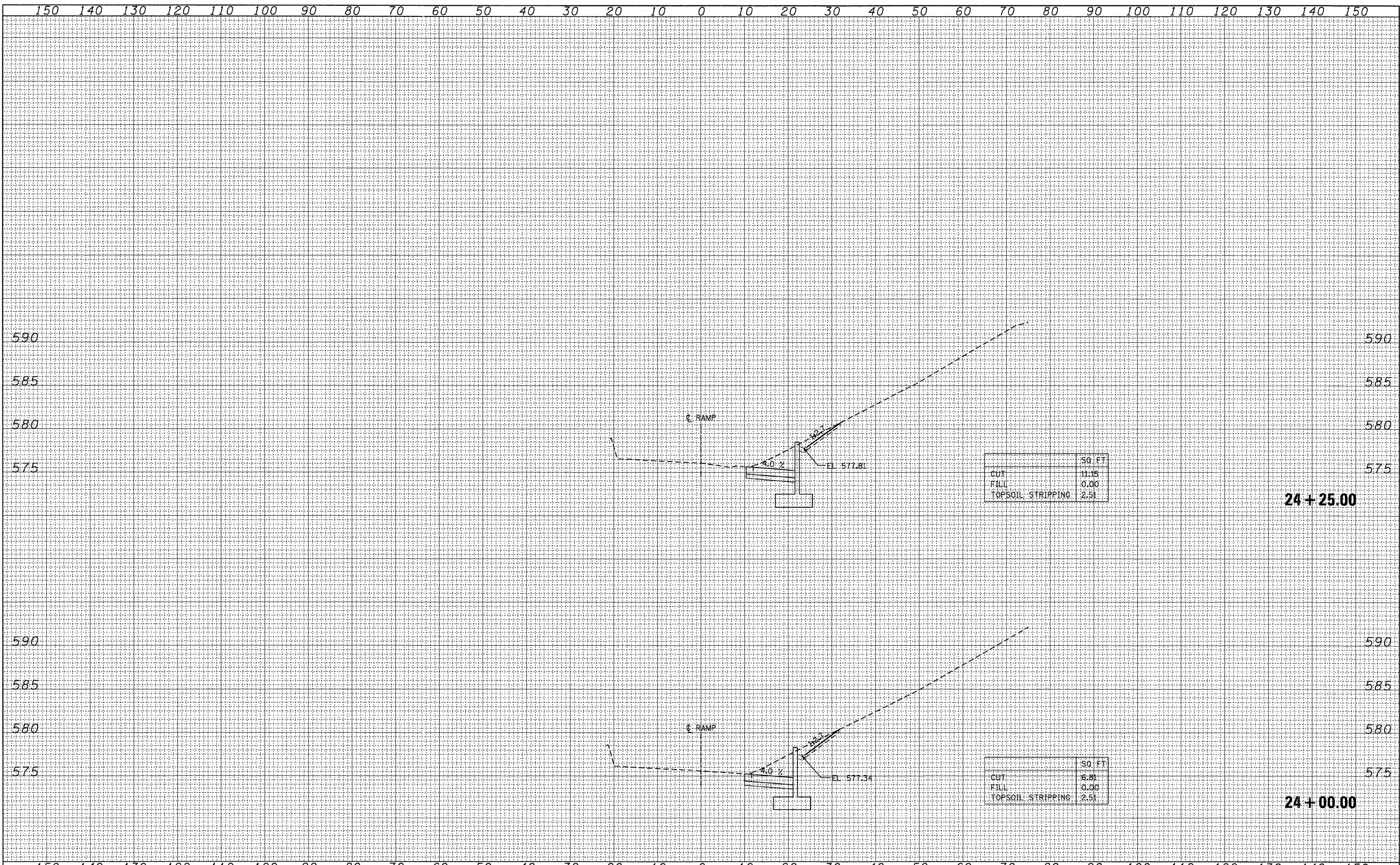
SCALE:	SHEET NO. 3 OF 7 SHEETS	STA. 23+10.00 TO STA. 23+50.00
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F.A.I. RTE. 290	SECTION 2007-057 T	COUNTY COOK	TOTAL SHEETS 60	SHEET NO. 56
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
CONTRACT NO. 60D93				

FINAL SURVEY	DATE
SURVEYED	BY
PLANTED	
NOTE BOOK	
NO.	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLANTED	
NOTE BOOK	
NO.	
AREAS CHECKED	





DATE	
BY	
SURVEYED	
REVISIONS	
FINAL SURVEY NOTE BOOK NO.	

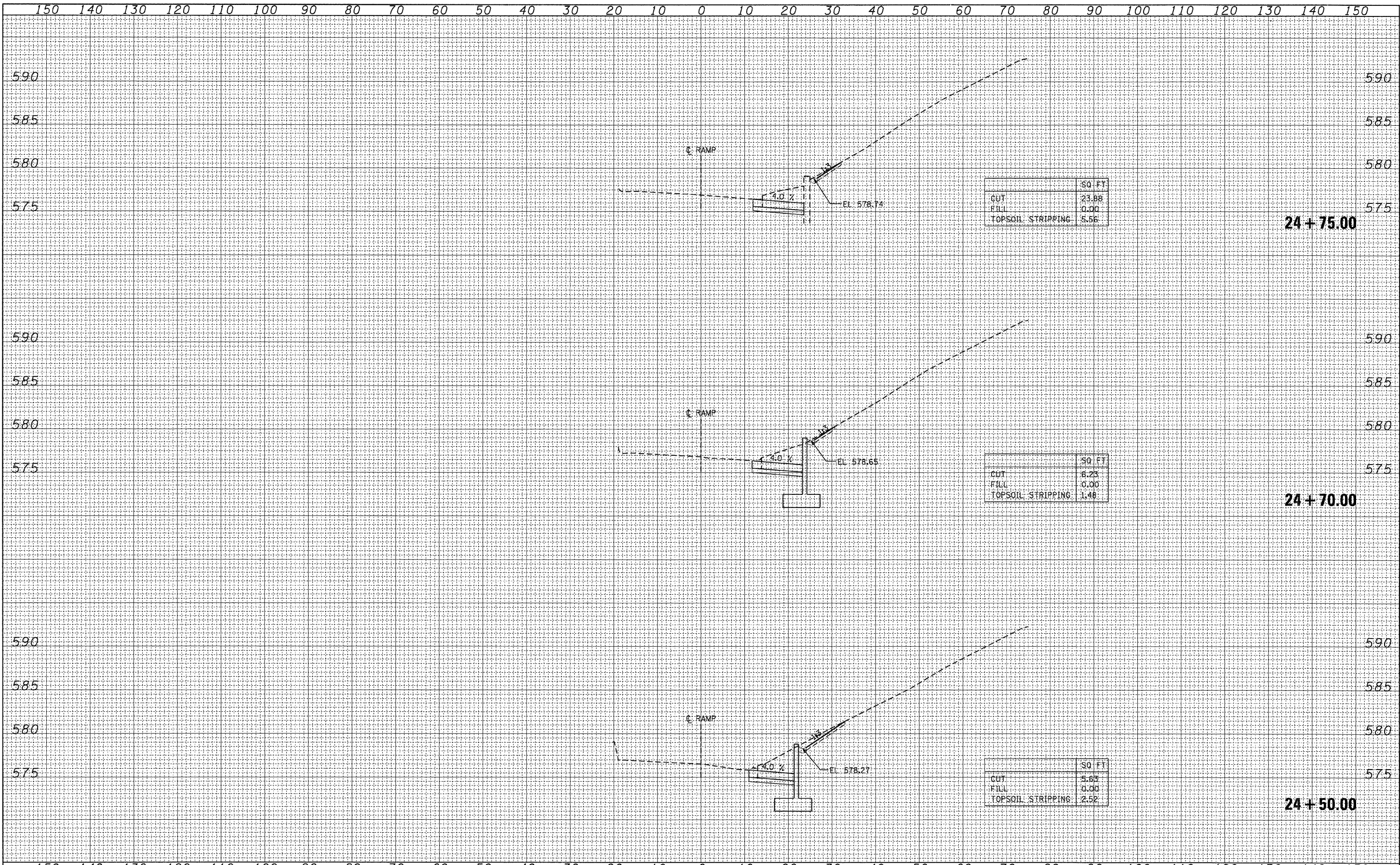
DATE	
BY	
SURVEYED	
REVISIONS	
ORIGINAL SURVEY NOTE BOOK NO.	

FILE NAME = S:\11-CADD\05-gpek\dgn\0168093-xso.dgn	USER NAME = 3690	DESIGNED - NDR	REVISED -
		DRAWN - NDR	REVISED -
		CHECKED - AAC	REVISED -
		DATE - 12/12/2008	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS	
SCALE:	SHEET NO. 5 OF 7 SHEETS STA. 24+00.00 TO STA. 24+25.00

F.A.I. RTE. 290	SECTION 2007-057 T	COUNTY COOK	TOTAL SHEETS 60	SHEET NO. 58
CONTRACT NO. 60D93				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

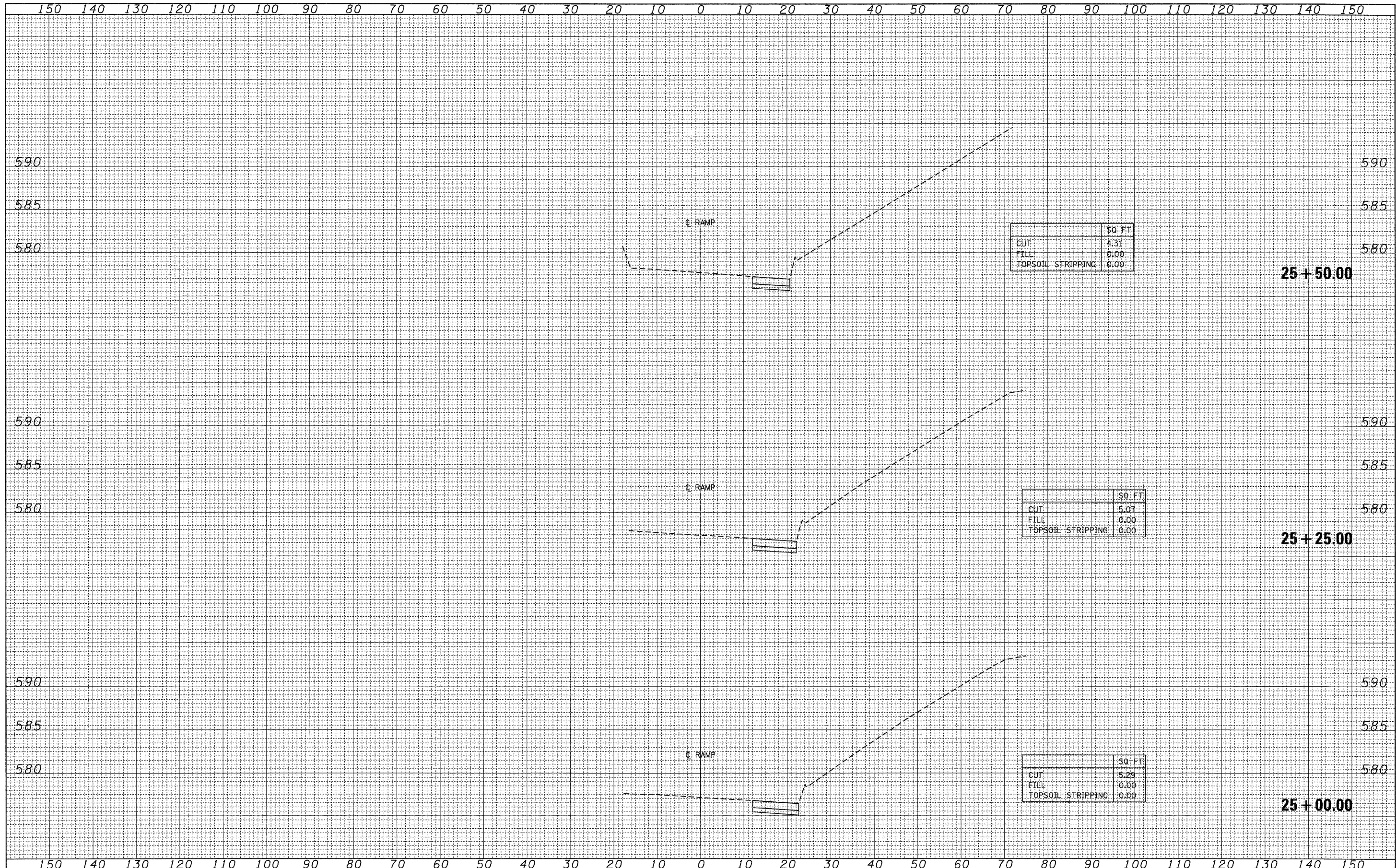


DATE	
BY	
SURVEYED	
TEMPLATE	
AREAS	
AREAS CHECKED	
FINAL SURVEY NOTE BOOK NO.	

DATE	
BY	
SURVEYED	
TEMPLATE	
AREAS	
AREAS CHECKED	
ORIGINAL SURVEY NOTE BOOK NO.	

DATE	
BY	
SURVEYED	
TEMPLATE	
AREAS	
AREAS CHECKED	
FINAL SURVEY NOTE BOOK NO.	

DATE	
BY	
SURVEYED	
TEMPLATE	
AREAS	
AREAS CHECKED	
ORIGINAL SURVEY NOTE BOOK NO.	



FILE NAME - S:\11-CADD\05-gpak\dsgn\1168093-xso.dgn

USER NAME - 3698
 PLOT SCALE = 10:1
 PLOT DATE = Thursday, December 11, 2008

DESIGNED - NDR
 DRAWN - NDR
 CHECKED - AAC
 DATE - 12/12/2008

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: SHEET NO. 7 OF 7 SHEETS STA. 25+00.00 TO STA. 25+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2007-057 T	COOK	60	60
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60D93	