

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION:

SPEED LIMIT: 55 M.P.H.

2009 ADT = 54,000

IMPROVEMENT LOCATED IN THE VILLAGE OF FORD HEIGHTS

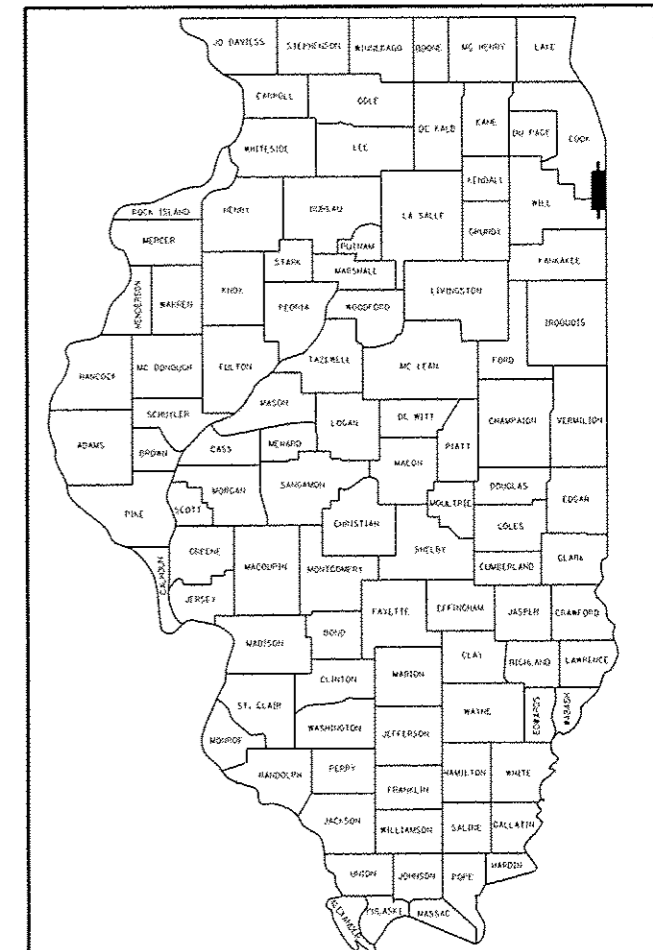
STATE OF ILLINOIS 08-03-12 LETTING ITEM 028
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP 332 (ILLINOIS ROUTE 394)
SECTION 2011-073-T
AT NORTH OF U.S. ROUTE 30
STORM SEWER REPAIR & SIGN MAINTENANCE
COOK COUNTY
C-91-631-11

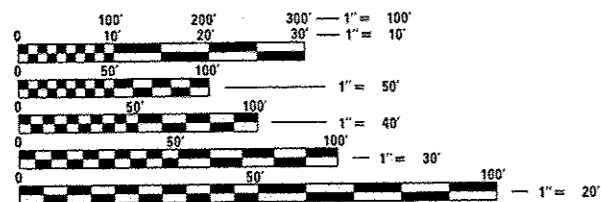
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2011-073-T	COOK	44	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 60P93		

D-91-631-11



LOCATION OF SECTION INDICATED THUS: - [Symbol] -

420 NORTH FRONT STREET, SUITE 100 | McHENRY, ILLINOIS 60050
Phone: 815.385.1778 | Toll Free: 800.728.7805 | Fax: 815.385.1781 | HRGreen.com
ILLINOIS PROFESSIONAL DESIGN FIRM #184-001322

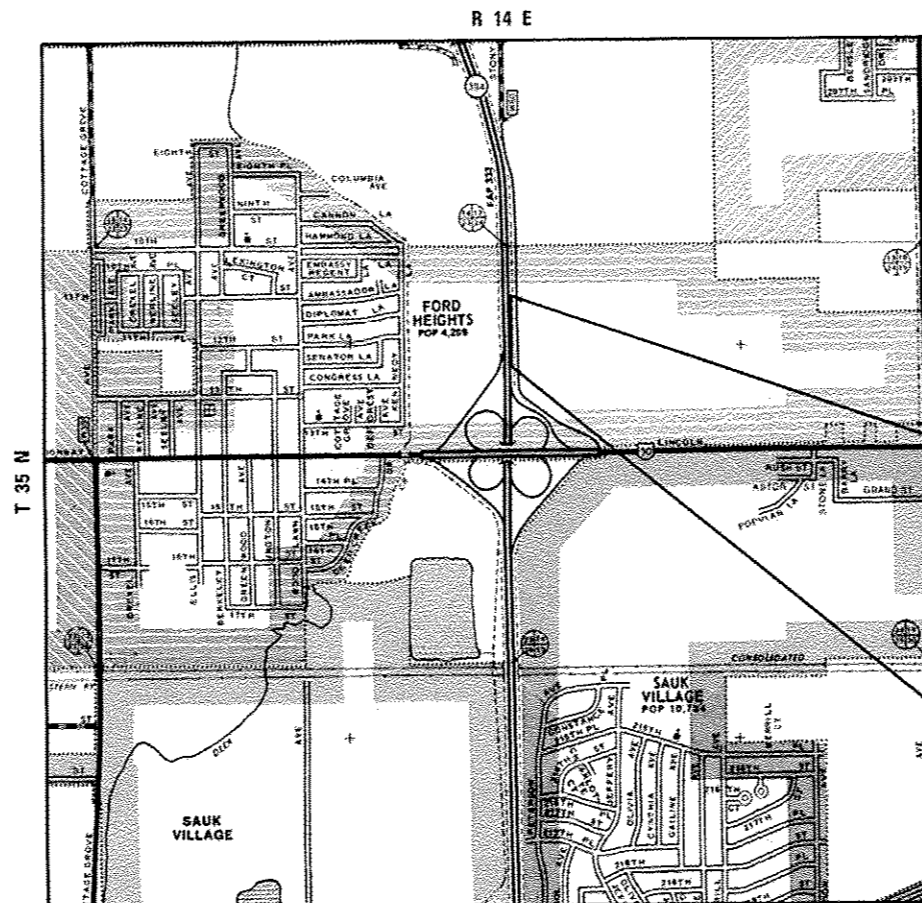


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

(HRGREEN) PROJECT ENGINEER: CHRISTOPHER HARTKE (815) 385-1778
(IDOT) PROJECT MANAGER: KEN ENG (847) 705-4247

CONTRACT NO. 60P93



IMPROVEMENT ENDS
STA. 128 + 23

IMPROVEMENT BEGINS
STA. 119 + 96

BLOOM TOWNSHIP

NET LENGTH OF IMPROVEMENT = 827 FT. = 0.16 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED MAY 14, 20 12

Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 29 20 12
John D. Baranzelli, P.E. /bc
acting ENGINEER OF DESIGN AND ENVIRONMENT

June 29 20 12
William R. Frey, Jr.
acting DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PROFESSIONAL ENGINEER'S SIGN & SEAL

Christopher M. Hartke

EXPIRES: 11/30/2013

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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LIST OF STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-06	TEMPORARY EROSION CONTROL SYSTEMS
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
635011-02	REFLECTOR MARKING AND MOUNTING DETAILS
642001-02	SHOULDER RUMBLE STRIPS, 16 INCH
643001-	SAND MODULE IMPACT ATTENUATORS
701101-02	OFF-RD OPERATIONS, MULTILANE 15' TO 24" FROM EDGE OF PAVEMENT
701400-05	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-06	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-08	LANE CLOSURE, MULTI LANE AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45MPH
701901-02	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-03	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS, & DELINEATORS

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT 8-1-1 OR (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).
2. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. SAW CUTTING OF PAVEMENTS, SIDEWALK, CURB & GUTTER, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM REMOVED.
5. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
6. THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4151 A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK.
8. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.
10. THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.
12. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
13. THE CONTRACTOR SHALL CONTACT IDOT ELECTRICAL MAINTENANCE FOR IDOT LIGHTING AND SURVEILLANCE LOCATES.

EARTH WORK SCHEDULE

IL 394				
STATION	EARTH EXCAVATION	FURNISHED EXC	PGES	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
121+00.00	0.0	0.0	0.0	0.0
121+50.00	3.0	0.6	0.0	1.8
122+00.00	2.3	1.2	0.0	0.6
122+50.00	4.3	0.6	0.0	2.8
123+00.00	10.3	0.0	0.0	8.2
123+29.13	9.1	0.0	0.0	7.3
123+50.00	6.5	0.0	0.0	5.2
124+00.00	13.1	0.0	0.0	10.5
124+50.00	6.4	22.8	0.0	-17.7
124+70.92	4.5	10.8	0.0	-7.1
125+00.00	6.6	9.5	0.0	-4.2
125+50.00	10.1	15.6	0.0	-7.6
126+00.00	9.5	15.7	0.0	-8.1
126+50.00	0.2	13.6	0.0	-13.5
127+00.00	4.8	0.6	0.0	3.2
127+34.15	3.8	2.2	0.0	0.8
128+00.00	1.2	3.7	0.0	-2.7
TOTALS	95.8	97.0	0.0	-20.3
	(CU YD)	(CU YD)	(CU YD)	(CU YD)

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 CLIENT: ILLINOIS
 DATE PLOTTED: 6/11/2012
 PLOT SCALE: 50.0000 / 1" = 50'
 PLOT DATE: 6/11/2012



USER NAME: *USER*	DESIGNED: C. HARTKE	REVISED: -
	DRAWN: J. GUERRIERO	REVISED: -
	CHECKED: T. HAMILTON	REVISED: -
	DATE: 6/11/12	REVISED: -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, LIST OF STATE STANDARDS, AND GENERAL NOTES
ILLINOIS ROUTE 394**

SCALE: 50.0000 / SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2011-073-T	COOK	44	2
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P93	

Sheet 2 of 3

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				URBAN	URBAN
				100% STATE 0044	100% STATE 0040
20200100	EARTH EXCAVATION	CU YD	96	96	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	10	10	
20400800	FURNISHED EXCAVATION	CU YD	21	21	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2500	2,500	
25000210	SEEDING, CLASS 2A	ACRE	0.6	0.6	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	47	47	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	47	47	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	47	47	
25100630	EROSION CONTROL BLANKET	SQ YD	2500	2,500	
28000510	INLET FILTERS	EACH	3	3	
44004250	PAVED SHOULDER REMOVAL	SQ YD	200	200	
48203045	HOT-MIX ASPHALT SHOULDERS, 12"	SQ YD	200	200	
550A2620	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 48"	FOOT	400	400	
55101900	STORM SEWER REMOVAL 48"	FOOT	405	405	

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 PROJECT CONTACT: HRGreen
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 PLOT DRIVER: pdf24pt
 PLOT TABLE: S:\Project 22-13-12



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	DRAWN - J. GUERRIERO	REVISED -
PLOT SCALE: N/A	CHECKED - T. HAMILTON	REVISED -
PLOT DATE: 5/17/2012	DATE - 5/17/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: N/A		SHEET NO. 1 OF 1 SHEETS	STA. TO STA.
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SUMMARY OF QUANTITIES
ILLINOIS ROUTE 394

F.A. RTE. 332	SECTION 2011-073-T	COUNTY COOK	TOTAL SHEETS 44	SHEET NO. 3
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P93	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				URBAN	URBAN
				100% STATE 0044	100% STATE 0040
60224066	MANHOLES, TYPE A, 6" -DIAMETER, WITH MEDIAN INLET (604101)	EACH	1	1	
64200116	SHOULDER RUMBLE STRIPS, 16"	FOOT	300	300	
67000400	FIELD OFFICE, TYPE A	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	6	6	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1150	1,150	
72000300	SIGN PANEL - TYPE 3	SO FT	312		312
72400330	REMOVE SIGN PANEL - TYPE 3	SO FT	99		99
73302210	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A	FOOT	40		40
73400200	DRILLED SHAFT CONCRETE FOUNDATION	CU YD	12.5		12.5
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1		1
73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	2		2
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	300	300	

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: mhardin
 CLIENT: HRGreen.com
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HRGreen.com
 Web Professional Design Firm
 #184-001202

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		DRAWN	- J. GUERRIERO	REVISED	-
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PLOT DATE	* 5/17/2012	DATE	- 5/17/12	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES	
ILLINOIS ROUTE 394	
SCALE: N/A	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2011-073-T	COOK	44	4
FED. ROAD DIST. NO.				ILLINOIS FED. AID PROJECT

CONTRACT NO. 60P93

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				URBAN	URBAN
				100% STATE 0044	100% STATE 0040
* 78200530	BARRIER WALL MARKERS, TYPE C	EACH	46	46	
X2020502	BRACED EXCAVATION	CU YD	1737	1,737	
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0030250	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	100	100	
Z0042002	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	10	10	
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL YD	6		6
Z0056220	SAND MODULE IMPACT ATTENUATOR TO BE REMOVED	EACH	2	2	
X0324181	DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO NEAREST SPLICE	EACH	1		1

• SPECIALTY ITEM

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: mhardin
 USER: mhardin
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	DATE - 5/17/12	REVISED -

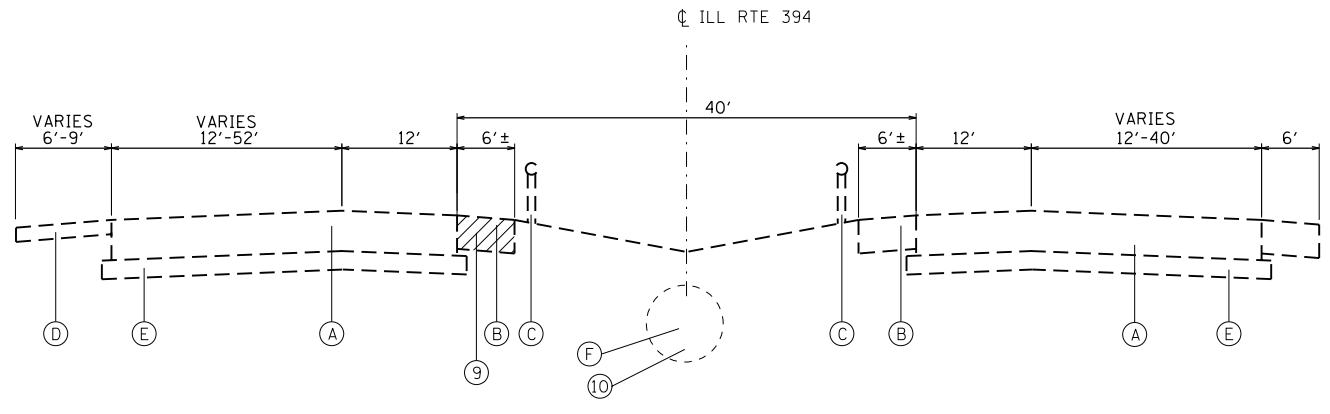
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
 ILLINOIS ROUTE 394

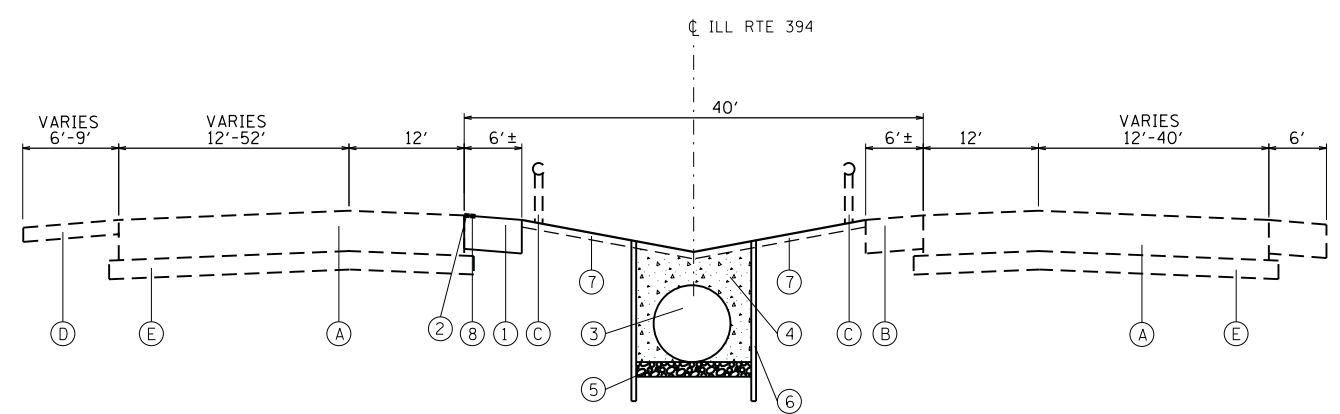
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F.A. RTE. 332	SECTION 2011-073-T	COUNTY COOK	TOTAL SHEETS 44	SHEET NO. 5
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 60P93		

Rev.



EXISTING TYPICAL SECTION
STA. 119+96 TO STA. 128+23



PROPOSED TYPICAL SECTION
STA. 119+96 TO STA. 128+23

EXISTING CONDITIONS

- (A) HMA PAVEMENT, THICKNESS VARIES
- (B) HMA SHOULDERS
- (C) HIGH TENSION CABLE MEDIAN BARRIER
- (D) AGGREGATE SHOULDERS
- (E) AGGREGATE SUBBBASE
- (F) STORM SEWER, 48"

PROPOSED IMPROVEMENTS

- (1) HOT-MIX ASPHALT SHOULDER 12" (NOTE 2)
- (2) THERMOPLASTIC PAVEMENT MARKING - LINE 4"
- (3) STORM SEWER, RUBBER GASKET, CLASS A, TYPE 2 48" (NOTE 1)
- (4) BACKFILL
- (5) POROUS GRANULAR EMBANKMENT, SUBGRADE (AT LOCATIONS DETERMINED BY THE ENGINEER)
- (6) BRACED EXCAVATION
- (7) TOPSOIL, FURNISH AND PLACE 4" WITH SEEDING, CLASS 2A
- (8) SHOULDER RUMBLE STRIPS
- (9) PAVED SHOULDER REMOVAL
- (10) STORM SEWER REMOVAL, 48"

NOTE 1: STORM SEWER REMOVAL/ STORM SEWER, RUBBER GASKET, CLASS A, TYPE 2 48" FROM STA. 123+29 TO STA. 127+34

NOTE 2: PAVED SHOULDER REMOVAL/ HOT-MIX ASPHALT SHOULDER 12" FROM APPROXIMATELY STA. 123+21 TO STA. 126+21. LOCATION TO BE VERIFIED IN THE FIELD BY THE ENGINEER. THE SHOULDER DEPTH VARIES FROM 12" TO 24". NO ADDITIONAL COMPENSATION WILL BE GIVEN FOR THE PAVED SHOULDER REMOVAL QUANTITY DUE TO ANY VARIANCE IN DEPTH.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes
HOT-MIX ASPHALT SHOULDERS 12"	
HMA SHOULDER (HMA BINDER IL-19 mm), 10"	4% @ 70 GYR.
HMA SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 2"	4% @ 70 GYR.

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

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

FOR "PERCENT OF RAP" SEE SPECIAL PROVISIONS.

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PROJECT CONTACT: HRGreen
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HRGreen
HRGreen.com
Illinois Professional Design Firm
#184-001322

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	DRAWN - J GUERRIERO	REVISED -
PLOT SCALE = N/A	CHECKED - T. HAMILTON	REVISED -
PLOT DATE = 5/17/2012	DATE - 5/17/12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

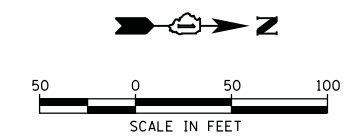
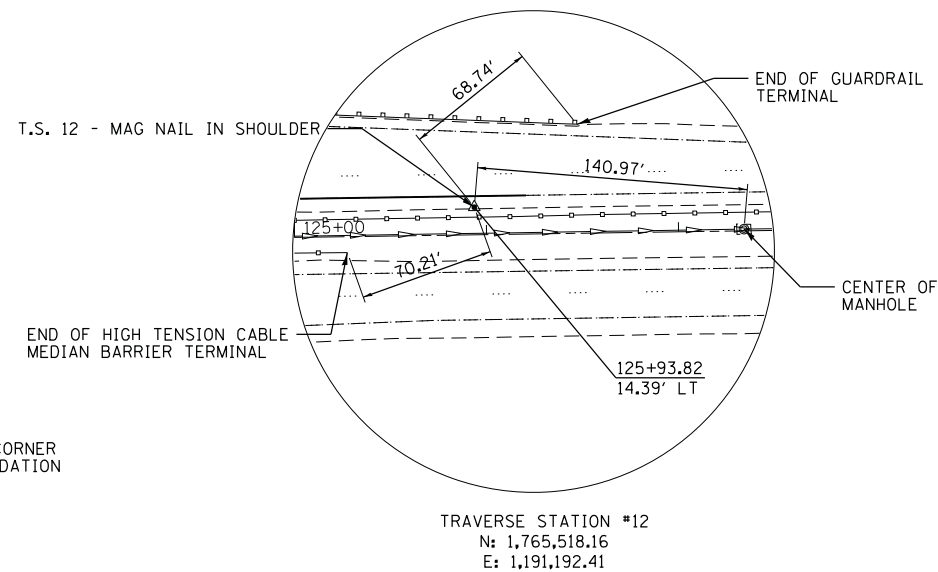
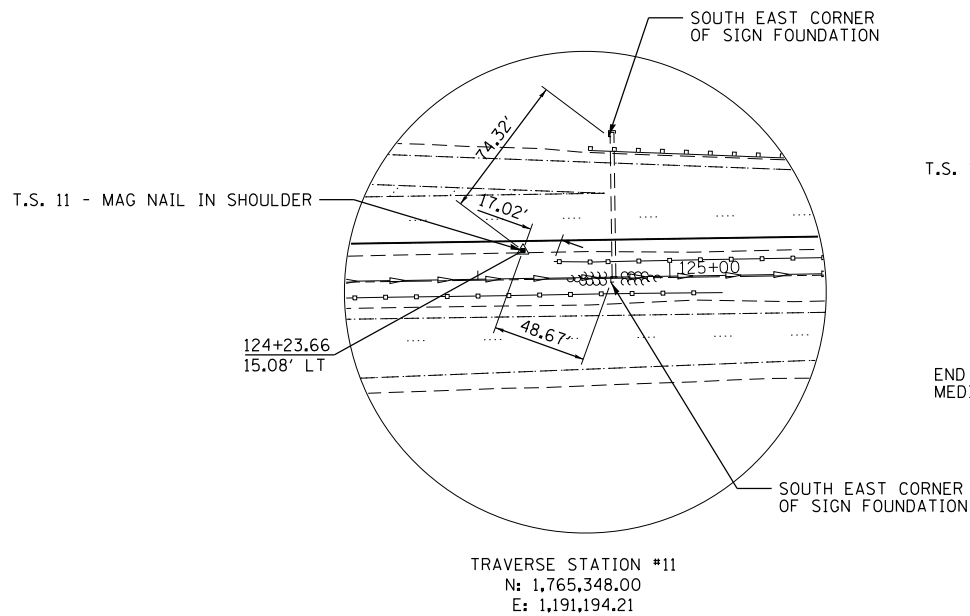
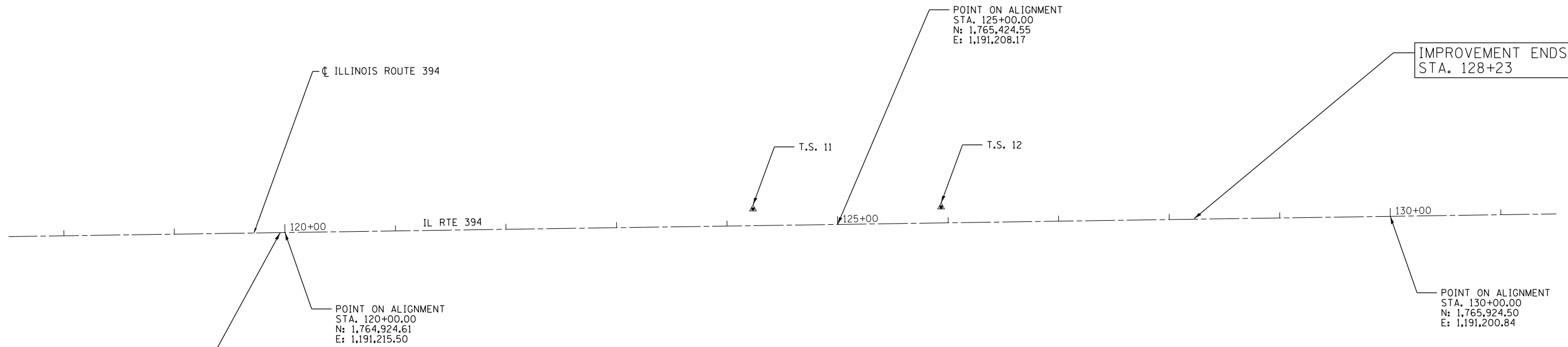
**TYPICAL SECTIONS
ILLINOIS ROUTE 394**

SCALE: N/A SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2011-073-T	COOK	44	6
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P93	

BENCHMARKS

BM1 - CHISELED "X" IN THE EXISTING CONCRETE SIGN FOUNDATION
IN THE CENTER MEDIAN OF ILLINOIS ROUTE 394. ELEVATION=637.68



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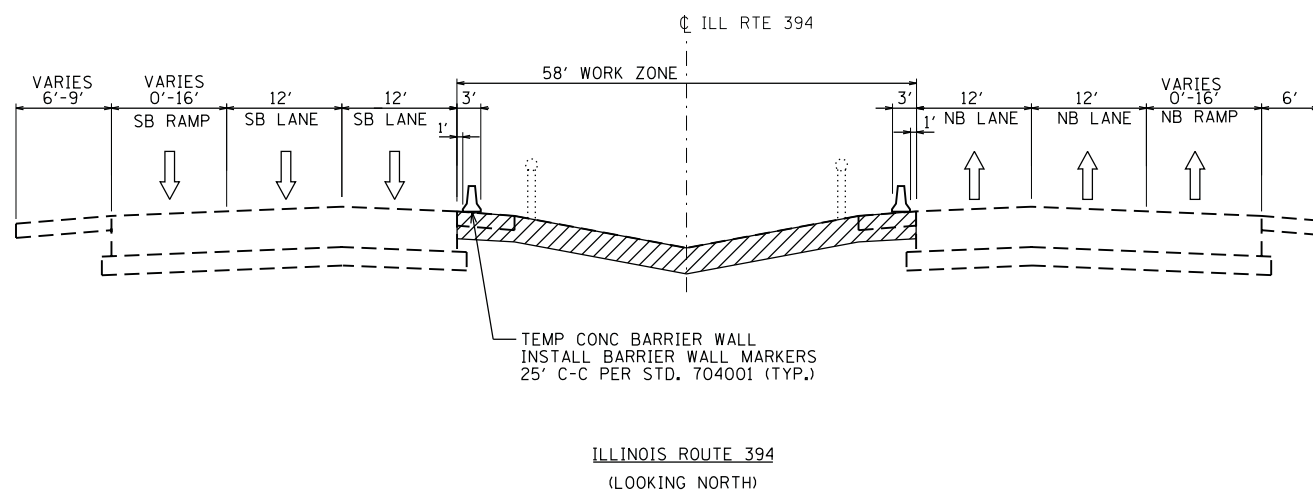
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	DRAWN - J GUERRIERO	REVISED -
PLOT SCALE = 1"=50'	CHECKED - T. HAMILTON	REVISED -
PLOT DATE = 5/17/2012	DATE - 5/17/12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES, AND BENCHMARKS
ILLINOIS ROUTE 394**

SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. BEG TO STA. END

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2011-073-T	COOK	44	7
FED. ROAD DIST. NO.			CONTRACT NO. 60P93	
ILLINOIS FED. AID PROJECT				



SUGGESTED CONSTRUCTION STAGING TRAFFIC CONTROL NOTES

1. THE CONTRACTOR SHALL MAINTAIN SATISFACTORY INGRESS AND EGRESS TO ENTRANCE AND EXIT RAMP THROUGHOUT THE DURATION OF THE WORK.
2. EXISTING TRAFFIC CONTROL SIGNS AND MESSAGES SHALL BE TEMPORARILY COVERED, MODIFIED, OR REMOVED AS WORK NECESSITATES AND/ OR DIRECTED BY THE ENGINEER.
3. ALL OF THE TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE TRAFFIC CONTROL PLANS OR THE LATEST EDITION OF THE ILLINOIS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND SHALL BE IN PLACE BEFORE CONSTRUCTION IS STARTED.
4. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND TRAFFIC CONTROL DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS DIRECTED BY THE ENGINEER.
5. TEMPORARY CONCRETE BARRIER AND TEMPORARY IMPACT ATTENUATORS SHALL BE PLACED AS INDICATED IN THE PLANS. THIS WORK SHALL BE IN ACCORDANCE WITH SECTION 704 OF THE STANDARD SPECIFICATIONS.
6. THE CONTRACTOR SHALL PROVIDE ADVANCE NOTICE CONSTRUCTION SIGNING. SIGNS SHALL BE ERECTED ONE WEEK IN ADVANCE OF THE START OF CONSTRUCTION. SIGNS SHALL BE REMOVED OR COVERED WHEN PROTECTION IS NOT REQUIRED AND RESTORED AS APPROPRIATE.
7. CONSTRUCTION WORK WILL NOT COMMENCE UNTIL ALL SIGNS AND PAVEMENT MARKINGS IN CONFLICT WITH THE STAGED CONSTRUCTION HAVE BEEN REMOVED AND ALL TEMPORARY SIGNS, AND BARRICADES ARE IN PLACE AND APPROVED BY THE ENGINEER.
8. THE CONTRACTOR SHALL PROVIDE ALL BARRIERS, SIGNS, SUPPORTS, PAVEMENT MARKING MATERIALS, AND LABOR NECESSARY FOR THE MAINTENANCE OF TRAFFIC UNLESS NOTED OTHERWISE IN THE SPECIAL PROVISIONS. IMMEDIATELY AFTER THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL RESTORE ALL PERMANENT PAVEMENT MARKINGS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES THAT WERE COVERED, REMOVED, MODIFIED, DAMAGED, OR OTHERWISE AFFECTED BY THE CONSTRUCTION.
9. TRAFFIC CONTROL AND PROTECTION WORK ON ILLINOIS ROUTE 394 SHALL CONSIST OF SHOULDER CLOSURES AND NIGHT TIME LANE CLOSURES (AS SHOWN ON THE PLANS) IN ACCORDANCE WITH IDOT HIGHWAY STANDARDS 701400 AND 701401, 701411 AND AS DIRECTED BY THE ENGINEER. THIS STANDARD WILL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
10. TRAFFIC CONTROL DEVICES AND TEMPORARY CONCRETE BARRIER WALL SHALL BE IN ACCORDANCE WITH IDOT TRAFFIC CONTROL STANDARD 701901 AND 704001.
11. PROVIDE TRAFFIC CONTROL AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS. COORDINATED INSTALLATION OF TRAFFIC CONTROL DEVICES WITH THE EXISTING TRAFFIC PATTERNS AT THE ENDS OF THE PROJECT.
12. THE SHOULDER REMOVAL AND REPLACEMENT SHALL BE CONSTRUCTED UNDER TEMPORARY LANE CLOSURE IN ACCORDANCE WITH STANDARD 701401 AND THE KEEPING EXPRESSWAYS OPEN TO TRAFFIC SPECIFICATION. THIS WORK IS TO BE DONE AFTER THE COMPLETION OF THE DRAINAGE IMPROVEMENTS AND THE REMOVAL AND REPLACEMENT OF THE SIGN STRUCTURE WHEN THE TEMPORARY BARRIER WALL IS NO LONGER NEEDED. NO OPEN DROP-OFFS WILL BE PERMITTED PAST THE ALLOWED TEMPORARY LANE CLOSURE. ALL SHOULDER REMOVED SHALL BE REPLACED WITH FINAL SHOULDER OR MATERIAL APPROVED BY THE ENGINEER PRIOR TO OPENING TRAFFIC TO THE ADJACENT LANE. NO ADDITIONAL COMPENSATION WILL BE GIVEN, AND THE COST SHALL BE INCLUDED IN THE ITEMS BEING INSTALLED.
13. PROJECT WILL REQUIRE TWO CHANGEABLE MESSAGE SIGNS.

COMPANY NAME: #COMPANY_NAMES
 PROJECT CONTACT:
 DATE PLOTTED: 5/17/2012 2:05:20 PM
 FILE NAME: 86100196.11-mot-gr-dgn
 PLOT DRIVER: pdfcut
 PEN TABLE: Struct 22x34.tbl

HRGreen
 HRGreen.com
 Illinois Professional Design Firm
 #184-001322

USER NAME = mhardin	DESIGNED - C. HARTKE	REVISED -
	DRAWN - J GUERRIERO	REVISED -
PLOT SCALE = N/A	CHECKED - T. HAMILTON	REVISED -
PLOT DATE = 5/17/2012	DATE - 5/17/12	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

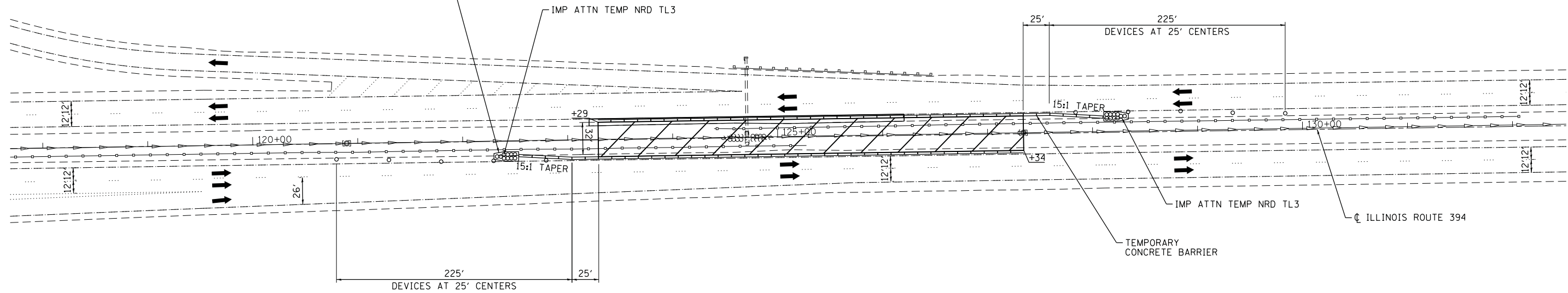
**SUGGESTED MAINTENANCE OF TRAFFIC
 GENERAL NOTES & TYPICAL SECTION**

SCALE: N/A SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2011-073-T	COOK	44	8
CONTRACT NO.			60P93	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

C:\91-631-11
 86100196.11-mot-gr-dgn

BASES FOR IMPACT ATTENUATORS SHALL BE CONSTRUCTED ACCORDING TO THE MANUFACTURER'S GUIDELINES AND SPECIFICATIONS. COST INCLUDED IN THE COST OF IMPACT ATTENUATOR, TEMPORARY (NON-DIRECTIVE), TEST LEVEL 3 (TYP.)



NOTE:
SEE DISTRICT 1 DETAIL TC-17 FOR TYPICAL SIGNAGE

LEGEND:

	WORK ZONE		TYPE II BARRICADES OR DRUMS WITH STEADY BURNING LIGHTS
	DIRECTION OF TRAFFIC		IMPACT ATTENUATOR
	TEMPORARY CONCRETE BARRIER		

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen
 DATE PLOTTED: 5/17/2012 2:28:18 PM
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 PEN TABLE: Struct_22x34.tbl

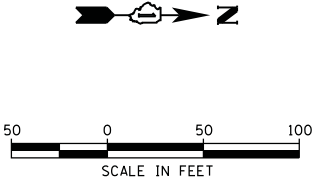


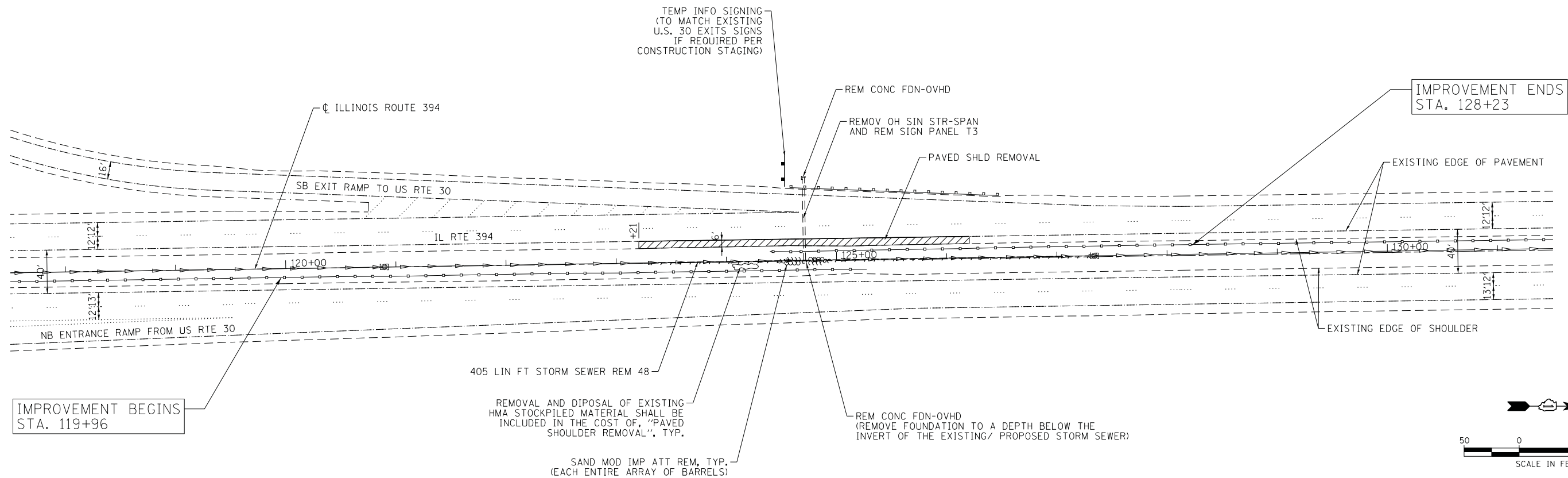
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	DRAWN - J. GUERRIERO	REVISED -
PLOT SCALE = 1"=50'	CHECKED - T. HAMILTON	REVISED -
PLOT DATE = 5/17/2012	DATE - 5/17/12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED MAINTENANCE OF TRAFFIC ILLINOIS ROUTE 394	
SCALE: 1"=50'	SHEET NO. 1 OF 1 SHEETS STA. BEG TO STA. END

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2011-073-T	COOK	44	9
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P93	





COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 DATE PLOTTED: 6/12/2012 11:55:56 AM
 FILE NAME: 86100196.11-rem.dgn
 PLOT DRIVER: pdfplot
 PEN TABLE: standard-trans.tbl



USER NAME = jguerr1	DESIGNED - C. HARTKE	REVISED -
	DRAWN - J GUERRIERO	REVISED -
PLOT SCALE = 1"=50'	CHECKED - T. HAMILTON	REVISED -
PLOT DATE = 6/12/2012	DATE - 6/12/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
ILLINOIS ROUTE 394

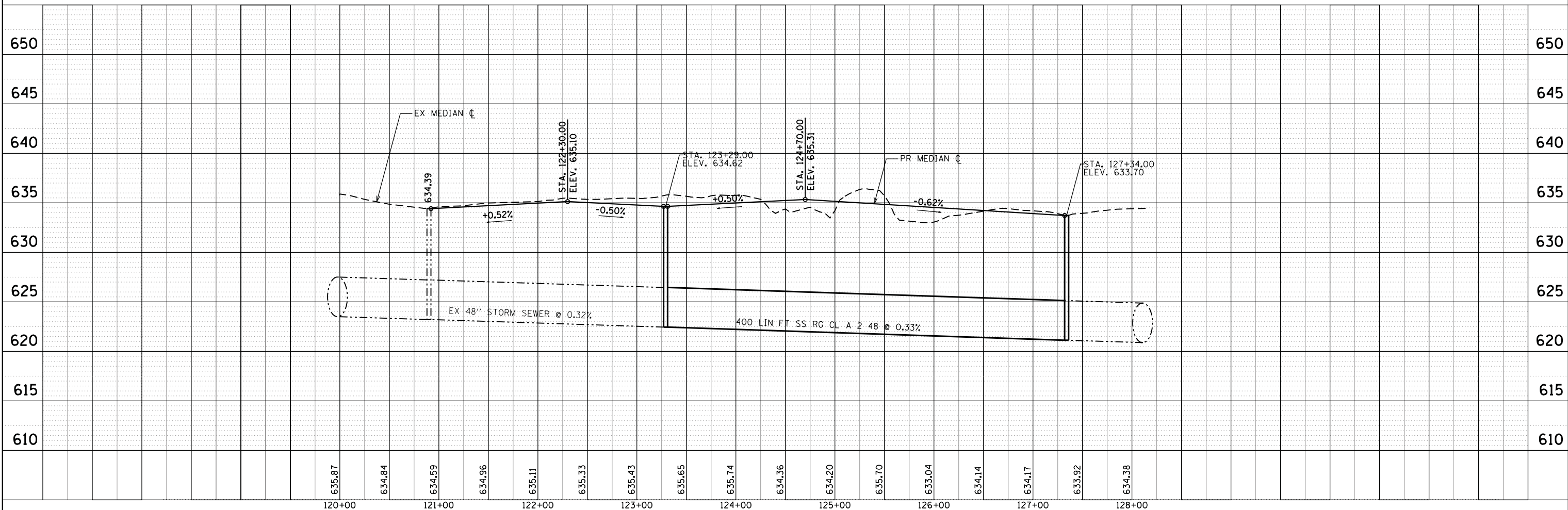
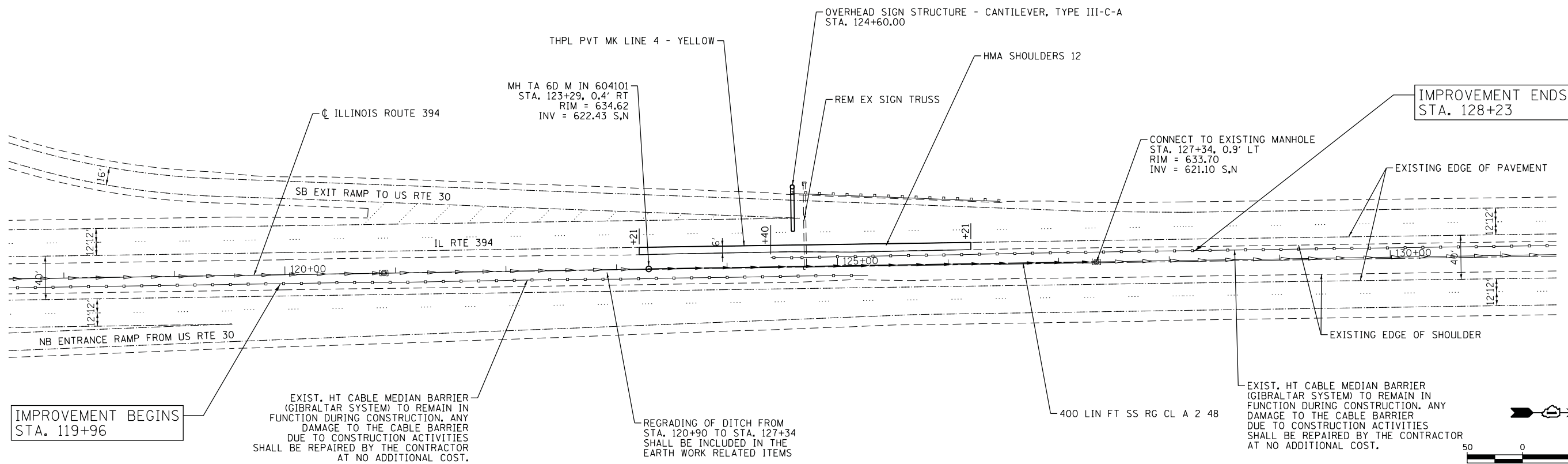
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2011-073-T	COOK	44	10
CONTRACT NO.			60P93	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

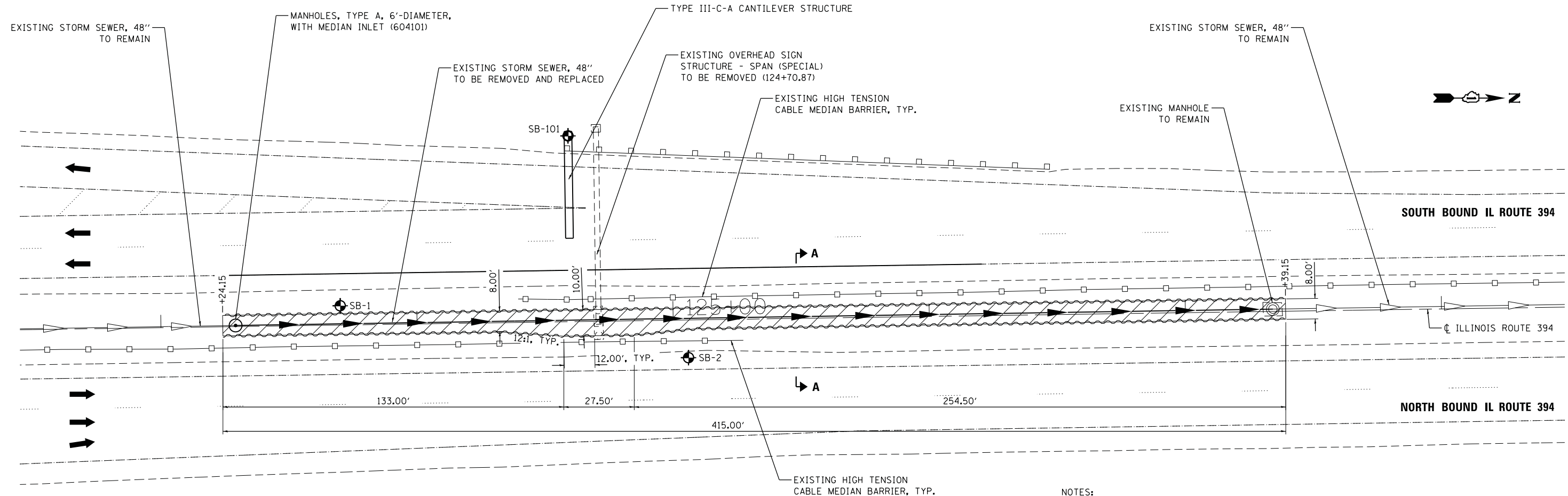
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	PLOTTED		
	CHECKED		
	AT		
	FILE NAME		
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PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	AT		
	FILE NAME		
	NO.		

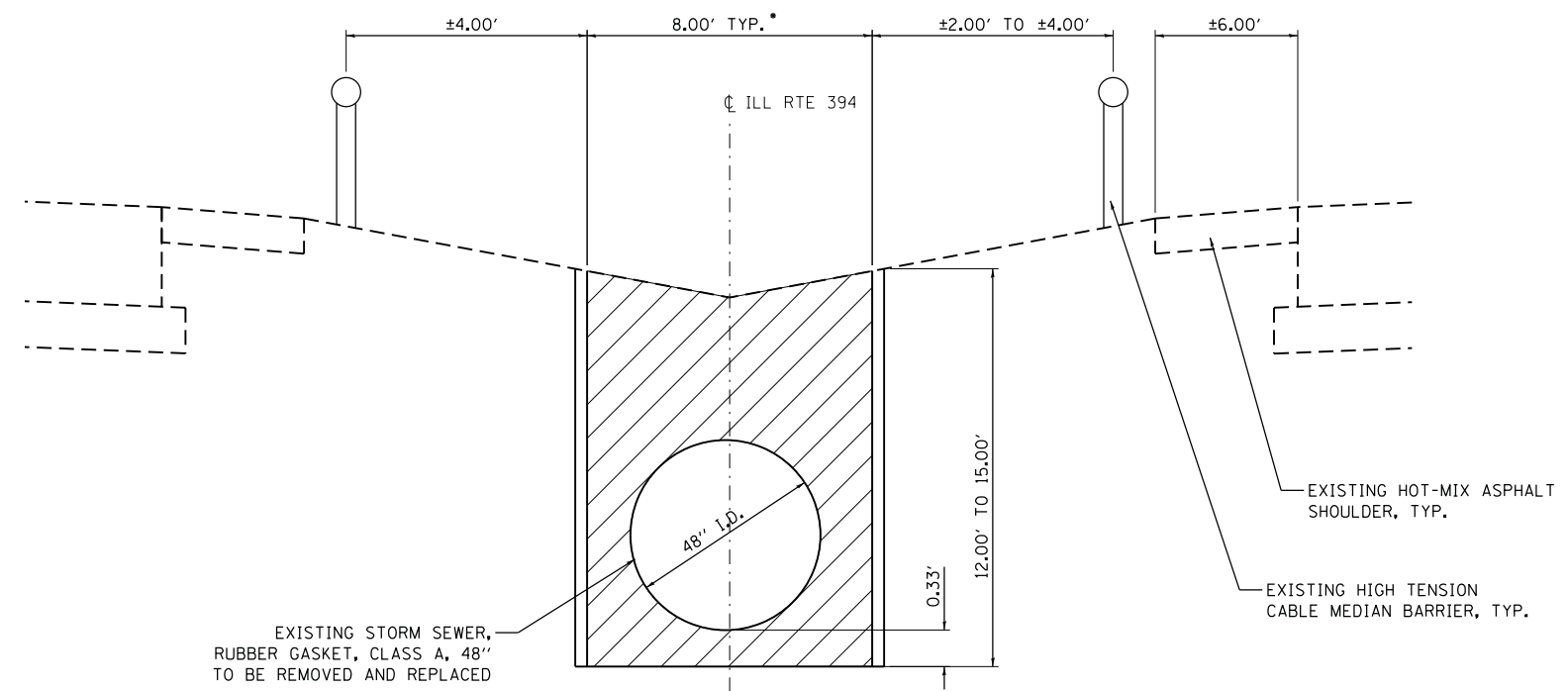
COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 CLIENT: Illinois Professional Design Firm
 DATE PLOTTED: 5/17/2012 14:46:35 PM
 FILE NAME: 86100196.11-plan.dgn
 PLOT SCALE: 1"=50'
 PLOT DATE: 5/17/2012



		USER NAME = mhardin FILE NAME = 86100196.11-plan.dgn PLOT SCALE = 1"=50' PLOT DATE = 5/17/2012	DESIGNED - C. HARTKE DRAWN - J. GUERRIERO CHECKED - T. HAMILTON DATE - 5/17/12	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		ROADWAY PLAN AND PROFILE ILLINOIS ROUTE 394		F.A. RTE. = 332 SECTION = 2011-073-T COUNTY = COOK CONTRACT NO. = 60P93	TOTAL SHEETS = 44 SHEET NO. = 11
		SCALE: 1"=50'		SHEET NO. 1 OF 1 SHEETS		STA. BEG TO STA. END		ILLINOIS FED. AID PROJECT		



- NOTES:
- PAYMENT FOR BRACED EXCAVATION SHALL BE LIMITED TO THE DIMENSIONS SHOWN. ANY ADDITIONAL EXCAVATION NEEDED FOR THE CONSTRUCTION MEANS AND METHODS SHALL NOT BE MEASURED FOR PAYMENT. ANY ITEMS DAMAGED DURING BRACED EXCAVATION OPERATIONS SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
 - BACKFILLING OF THE BRACED EXCAVATION SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR STORM SEWER, RUBBER GASKET, CLASS A, 48" PER ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS.

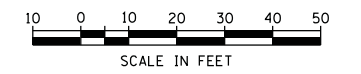


* WIDTH VARIES FROM 8.00' AT STA. 124+33.23 TO 10.00 AT STA. 124.57.23 AND FROM 10.00' AT STA. 124+83.73 TO 8.00' AT STA. 125+07.23

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
BRACED EXCAVATION	CU. YD.	1737

LEGEND
 PAY LIMITS FOR BRACED EXCAVATION



COMPANY NAME: #COMPANY_NAME\$
 PROJECT CONTACT:
 DATE PLOTTED: 5/17/2012 14:46:38 PM
 FILE NAME: 86100196.11-dst-01.dgn
 PLOT DRIVER: pdfcut
 PEN TABLE: Struct_22x34.tbl



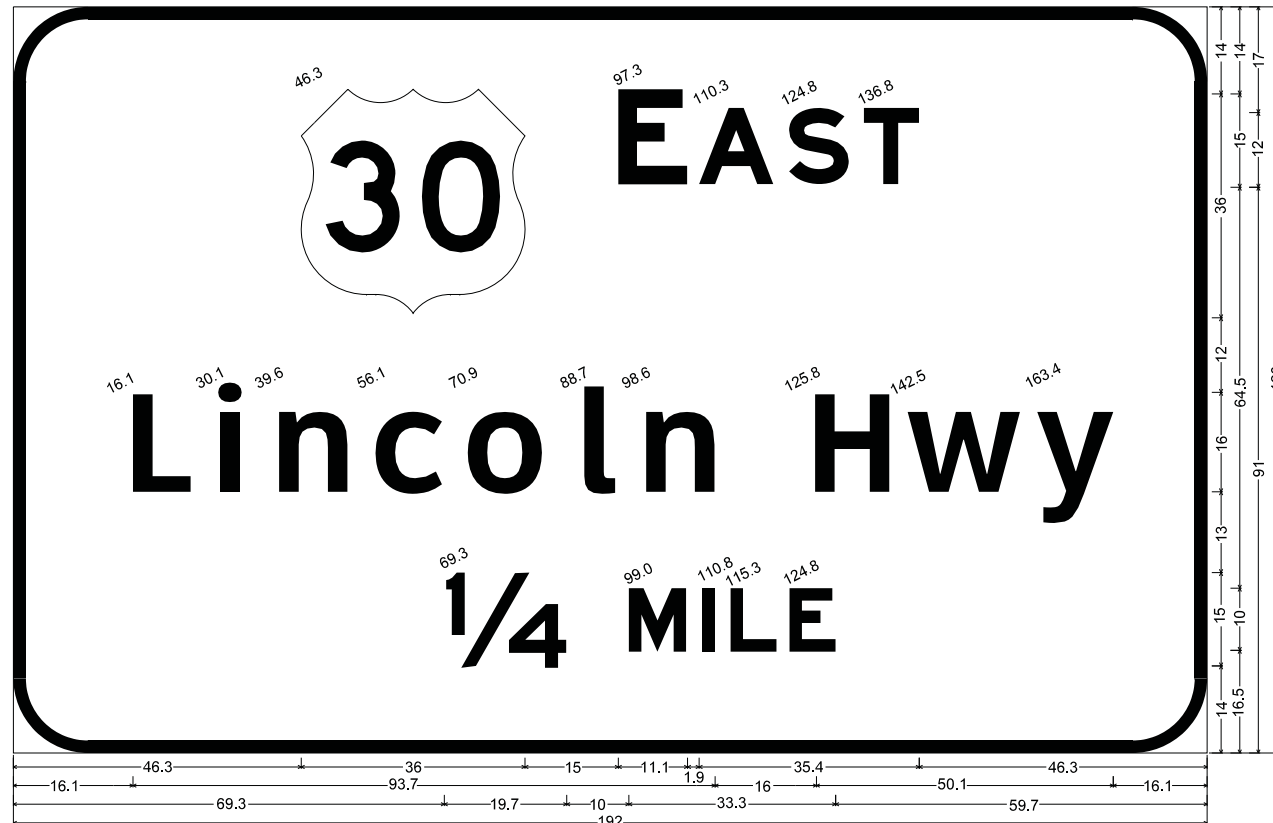
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	DRAWN - J. GUERRIERO	REVISED -
PLOT SCALE = 1"=20'	CHECKED - R. DAVIES	REVISED -
PLOT DATE = 5/17/2012	DATE - 5/17/12	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

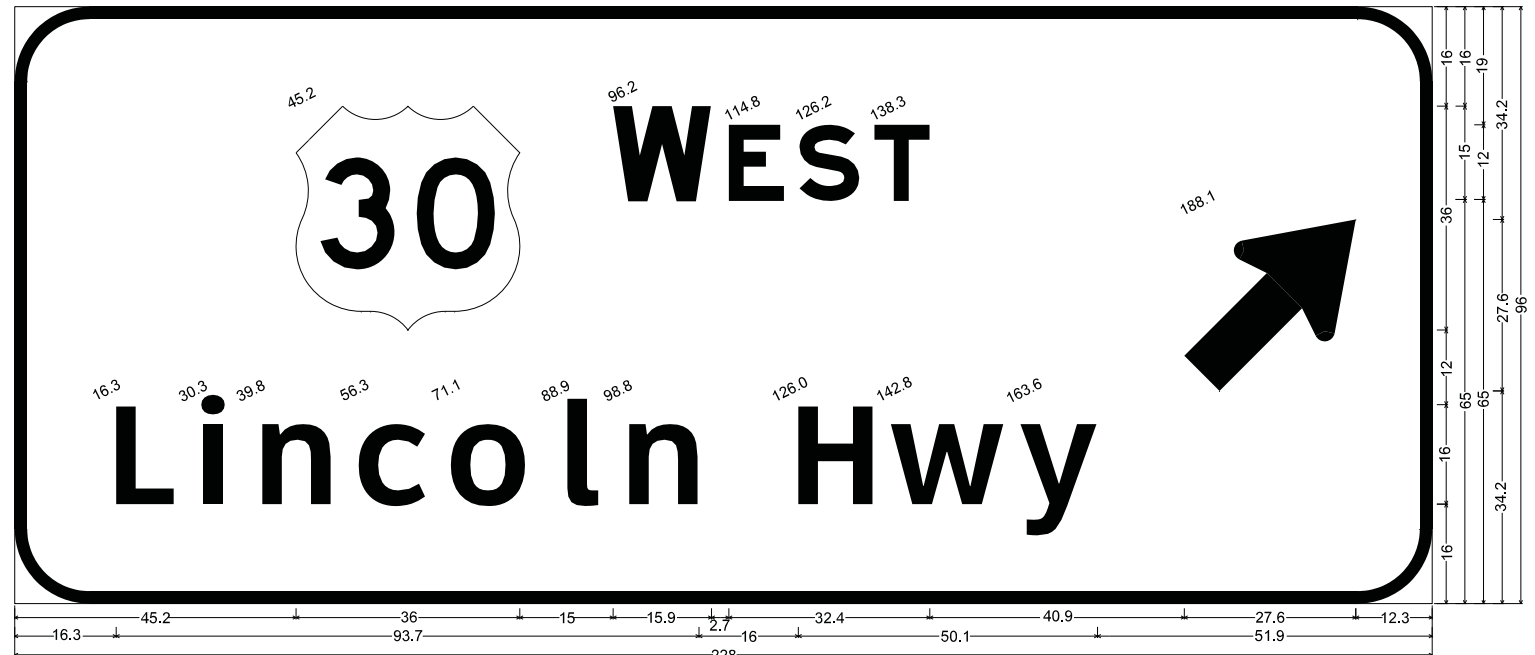
**BRACED EXCAVATION
 ILLINOIS ROUTE 394**

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

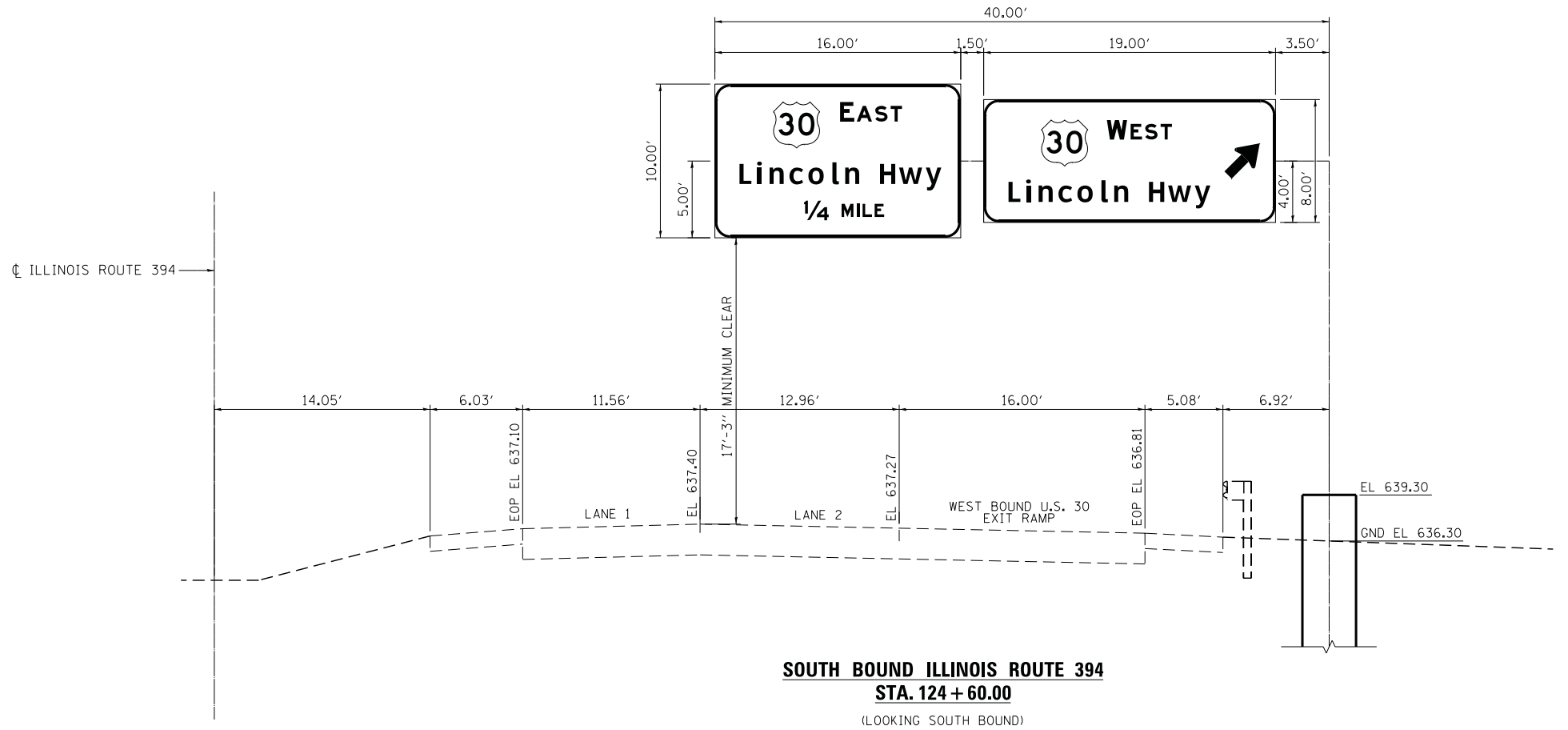
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2011-073-T	COOK	44	12
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	CONTRACT NO. 60P93



30 East; 12.0" Radius, 2.0" Border, ZZ Sheeting - White on Green;
 [EAST] E Mod; [Lincoln Hwy] ClearviewHwy-5-W; [1/4 MILE] E Mod;



30 West; 12.0" Radius, 2.0" Border, ZZ Sheeting - White on Green;
 [WEST] E Mod; [Lincoln Hwy] ClearviewHwy-5-W; Standard Arrow Custom 35.0" X 21.6" 45°;



SOUTH BOUND ILLINOIS ROUTE 394
STA. 124 + 60.00
 (LOOKING SOUTH BOUND)

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: Illinois Professional Design Firm
 #184-001322
 DATE PLOTTED: 6/12/2012 12:44:25 PM
 FILE NAME: 86100196.11-sign-01a.dgn
 PLOT DRIVER: pdfcut
 PEN TABLE: standard-trans.tbl



USER NAME = jguerr1	DESIGNED - J. GUERRIERO	REVISED -
PLOT SCALE = N/A	DRAWN - J. GUERRIERO	REVISED -
PLOT DATE = 6/12/2012	CHECKED - R. DAVIES	REVISED -
	DATE - 6/12/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN DETAILS
ILLINOIS ROUTE 394

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2011-073-T	COOK	44	13
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P93	

GENERAL NOTES

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

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

LOADING: 90 M.P.H. WIND VELOCITY

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

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

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

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.
All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.
The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

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

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

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

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

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

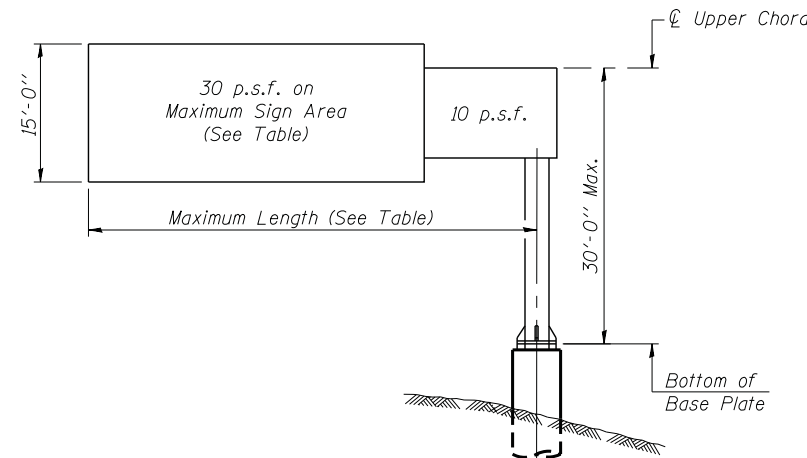
FOUNDATIONS: The contract unit price for Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE I-C-A	Foot	
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II-C-A	Foot	
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	Foot	40'-0"
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	12.5

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	Ds	Total Sign Area
1C016394L000.0-001	124+60.00 LT	III-C-A	40'-0"	637.40	11'-11"	10'-0"	312.0 Sq. Ft.

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



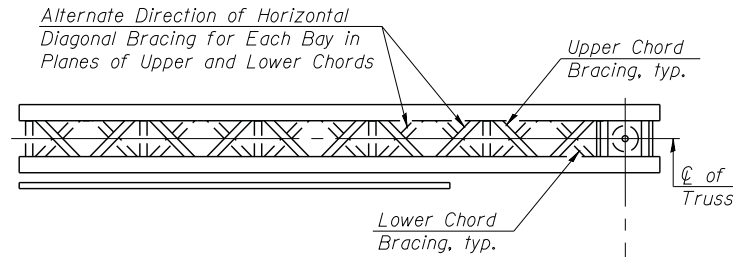
DESIGN WIND LOADING DIAGRAM

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

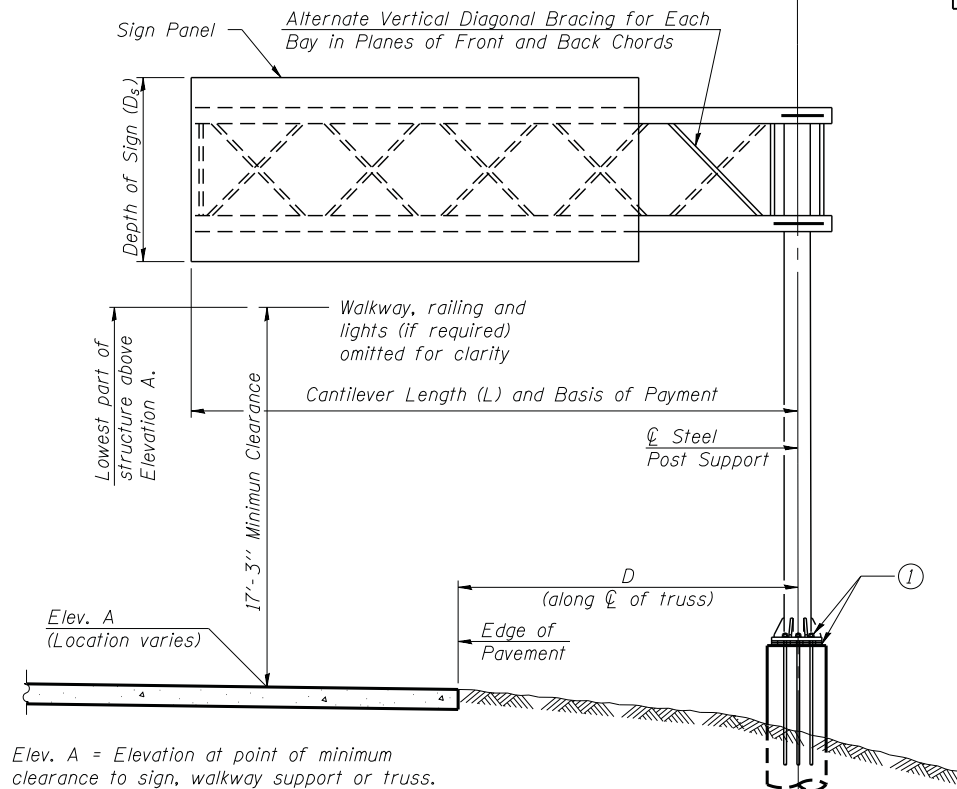
Note:
Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection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

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

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



TYPICAL PLAN
(Walkway not shown)



TYPICAL ELEVATION
Looking in Direction of Traffic

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

COMPANY NAME: HRGreen
PROJECT CONTACT: J. GUERRIERO
DATE PLOTTED: 6/12/2012 7:48:21 AM
FILE NAME: 86100196.11-sign-01.dgn
PLOT DRIVER: pafcah
PEN TABLE: standard-trans.tbl

OSC-A-1

9-15-11



USER NAME = jguerr1
DESIGNED - J. GUERRIERO
DRAWN - J. GUERRIERO
PLOT SCALE = N/A
PLOT DATE = 6/12/2012

REVISOR
REVISED -
REVISOR
REVISED -
REVISOR
REVISED -

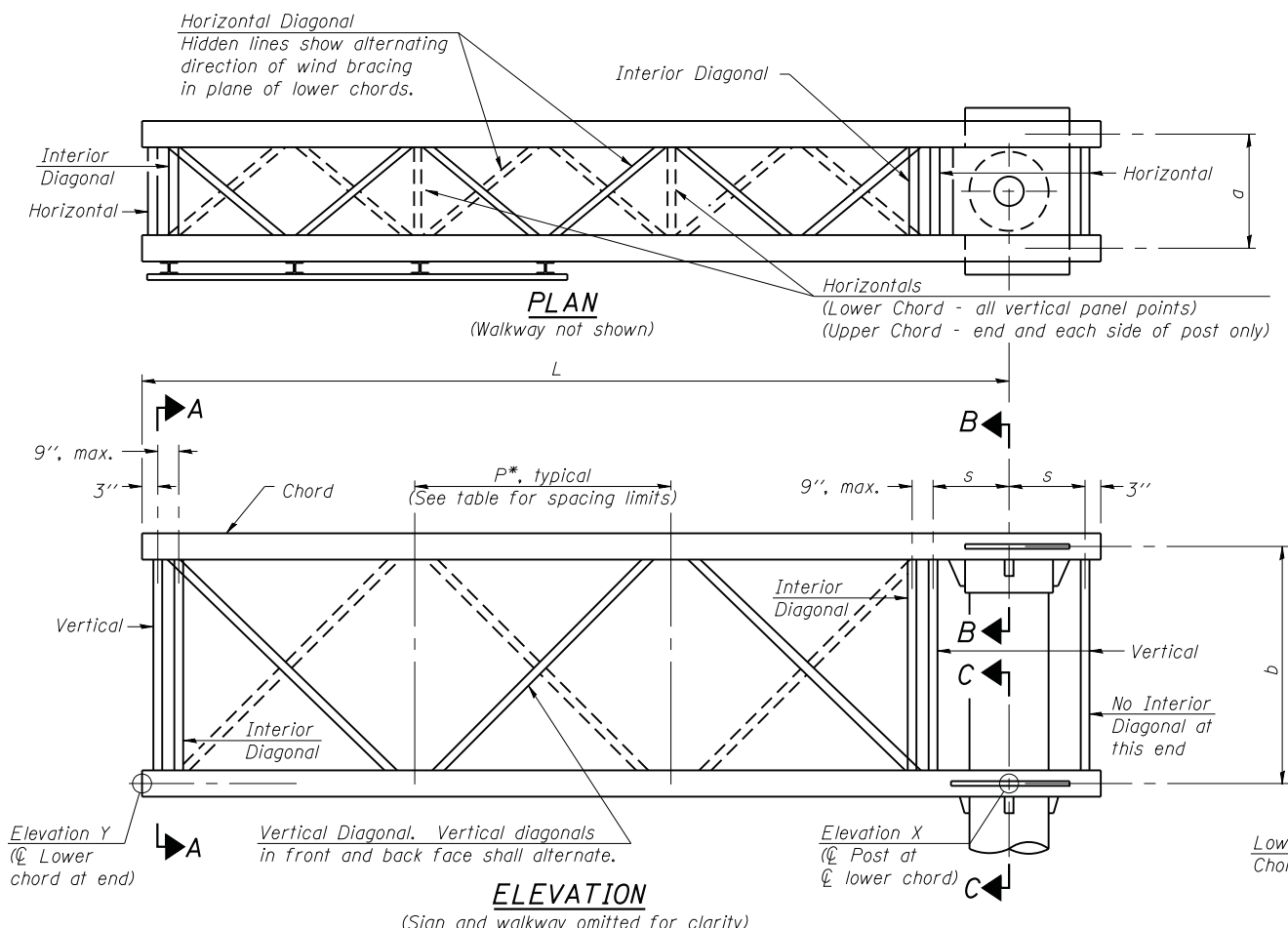
DESIGNED - J. GUERRIERO
DRAWN - J. GUERRIERO
CHECKED - R. DAVIES
DATE - 6/12/12

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2011-073-T	COOK	44	14
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	CONTRACT NO. 60P93



TYPICAL TRUSS UNIT
(Sign and walkway omitted for clarity)

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

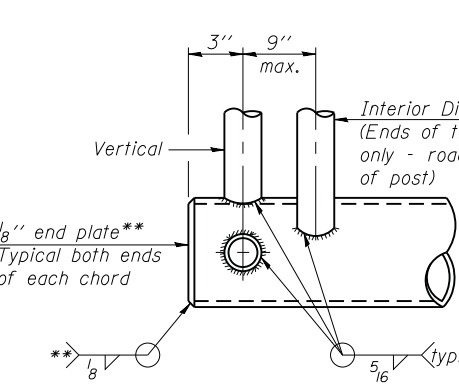
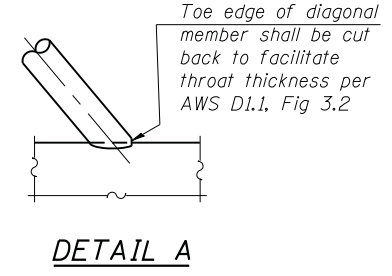
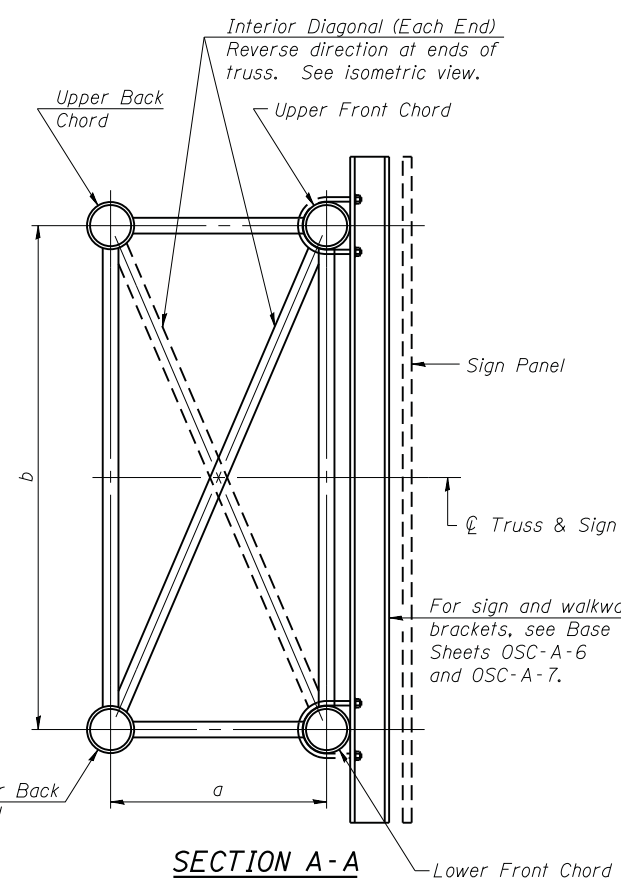
There are twice as many horizontal diagonals as there are vertical diagonals.

TRUSS UNIT TABLE

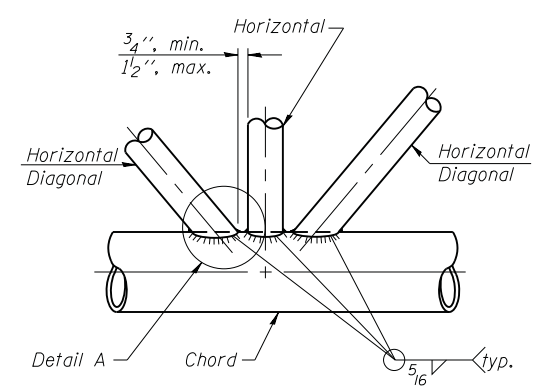
Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals	
					O.D.	Wall	O.D.	Wall
I-C-A	24"	54"	16"	36" min. to 48" max.	5"	5/16"	2 1/2"	5/16"
II-C-A	36"	66"	21"	42" min. to 54" max.	6 1/2"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

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

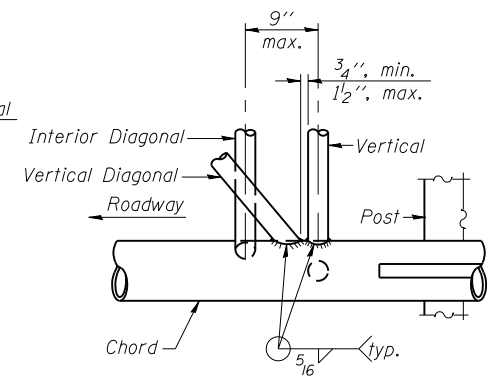
Structure Number	Station	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
1C016394L000.0-001	124+60.00 LT	III-C-A	40'-0"	8	60"



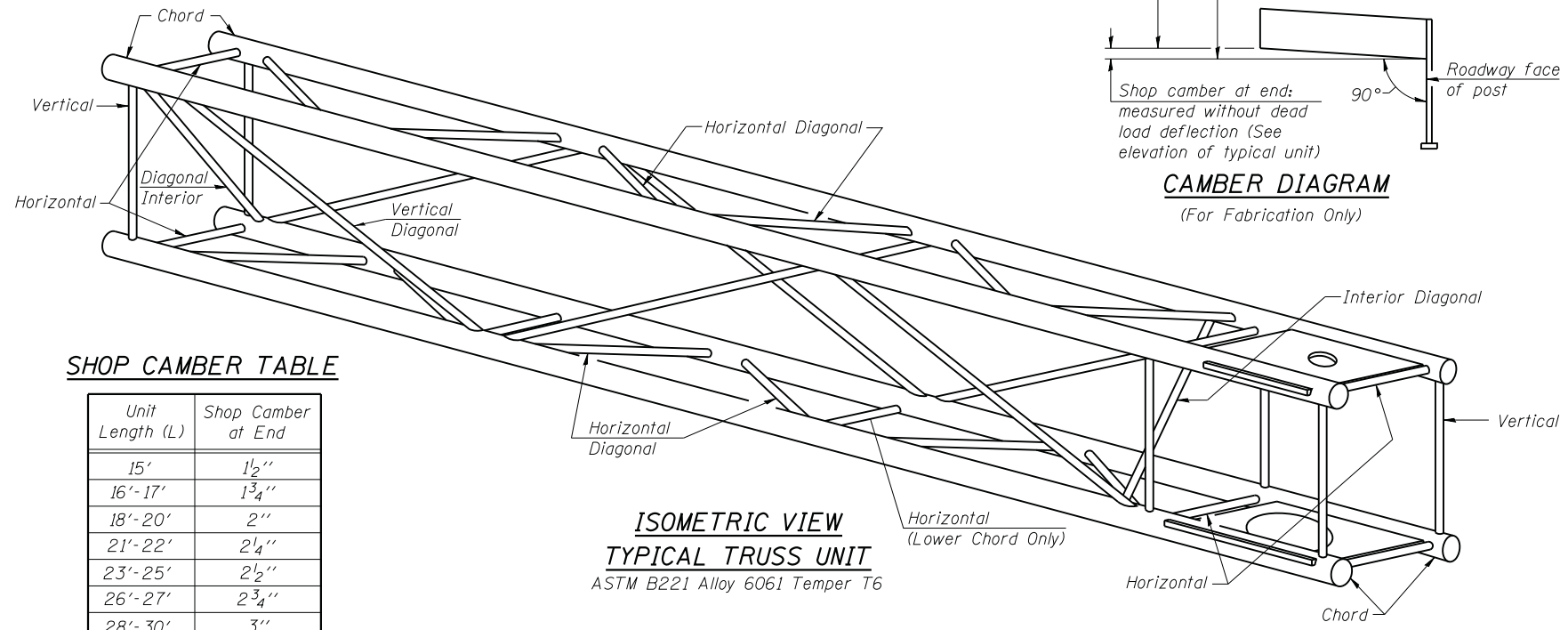
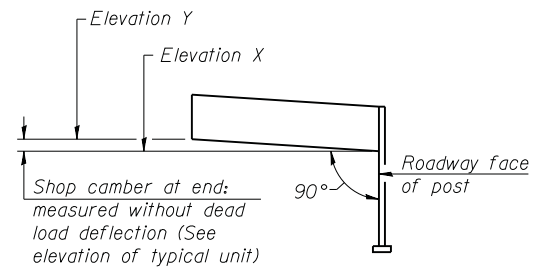
** Contractor may alternatively use standard aluminum drive-fit cap to close ends.



TRUSS INTERIOR JOINT DETAIL



POST END JOINT DETAIL



SHOP CAMBER TABLE

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

OSC-A-2

9-15-11



USER NAME = mhardin
PLOT SCALE = N/A
PLOT DATE = 5/17/2012

DESIGNED - J. GUERRIERO
DRAWN - J. GUERRIERO
CHECKED - R. DAVIES
DATE - 5/17/12

REVISED -
REVISED -
REVISED -
REVISED -

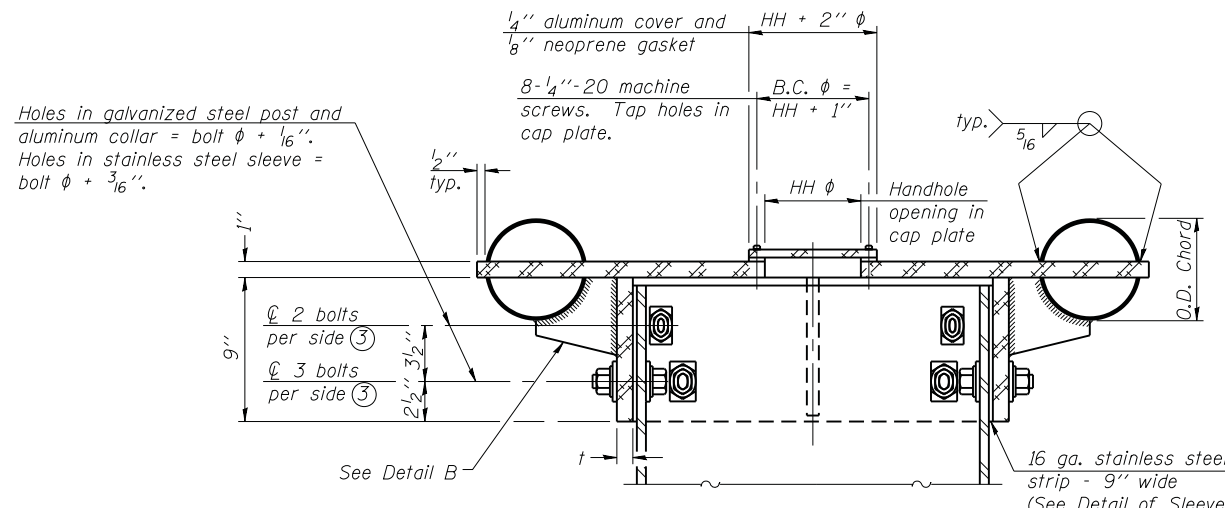
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

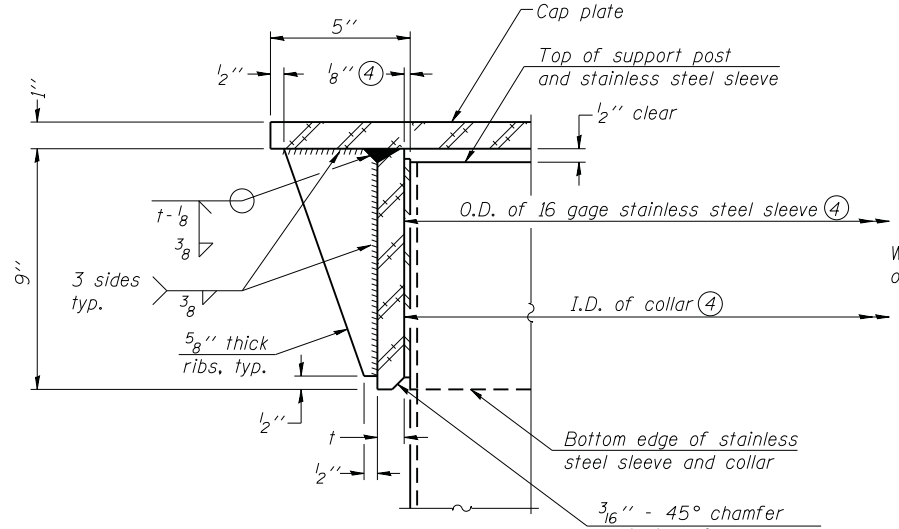
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2011-073-T	COOK	44	15
FED. ROAD DIST. NO.			CONTRACT NO.	
ILLINOIS FED. AID PROJECT			60P93	

COMPANY NAME: #COMPANY.NAMES
PROJECT CONTACT:
DATE PLOTTED: 5/17/2012 1:46:54 PM
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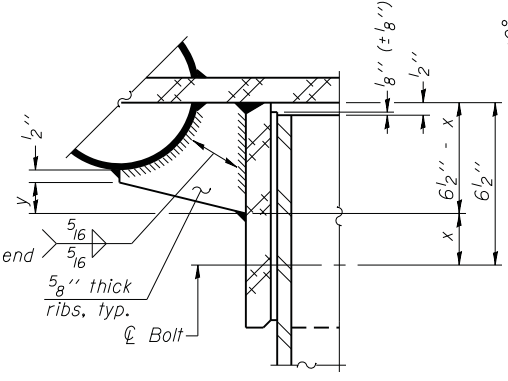


④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus 1/8" (+/- 1/16"). Maximum gap between post and collar at any location equals 1/8" before tightening bolts.

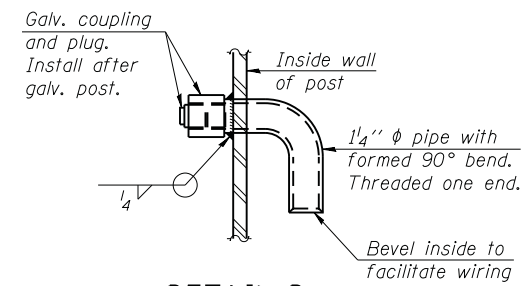
SECTION B-B
Bolts, washers (including contoured washers), and locknuts shall be stainless steel.



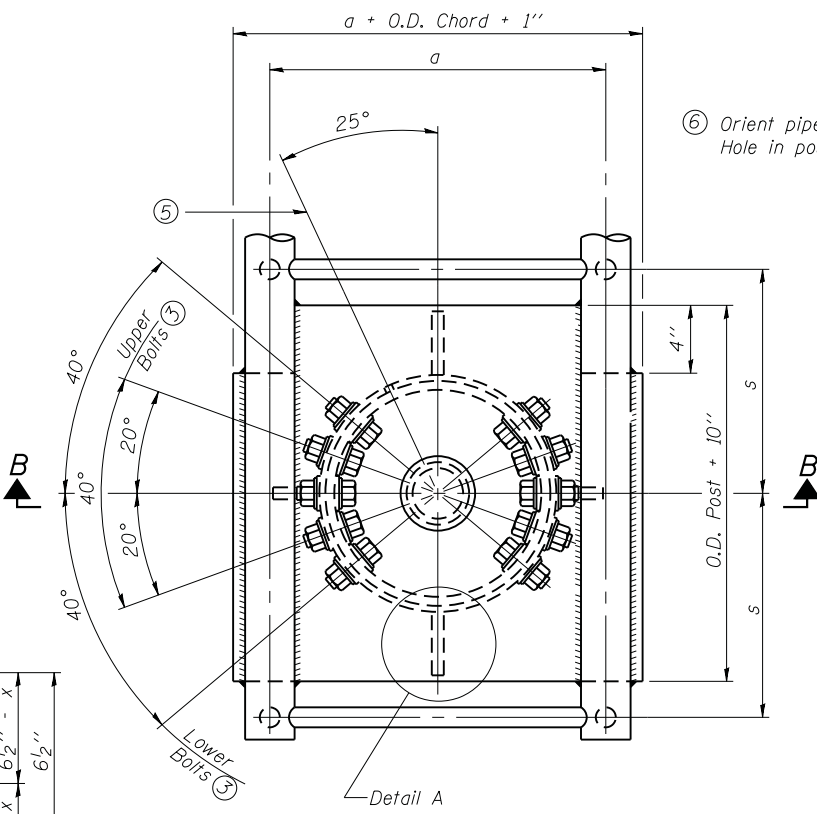
DETAIL A
(Two locations)
3/16" - 45° chamfer on inside of collar to facilitate field assembly



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

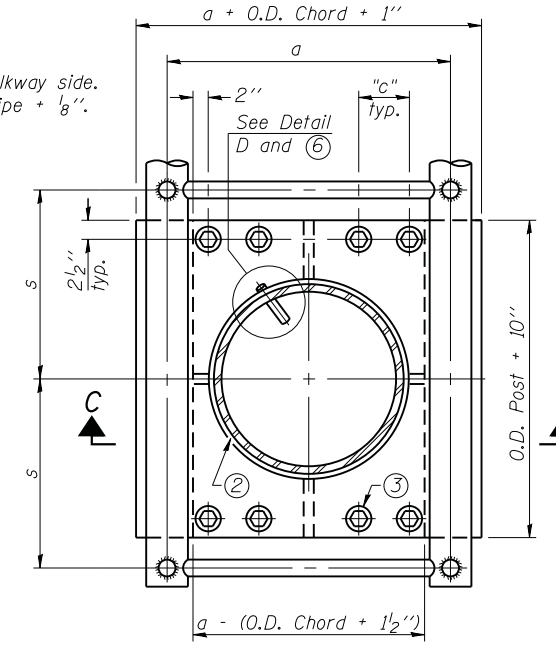


DETAIL D



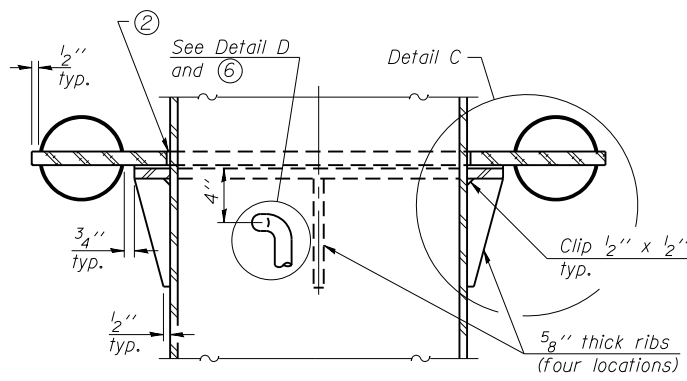
PLAN VIEW - TOP OF COLUMN

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

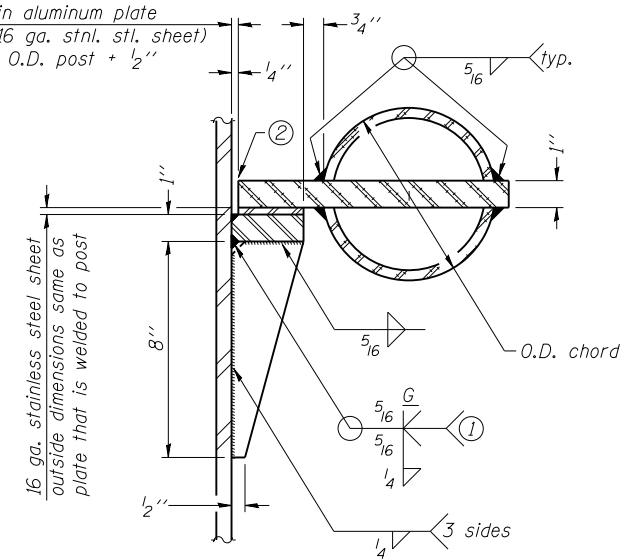


SECTION THRU POST ABOVE LOWER CHORDS

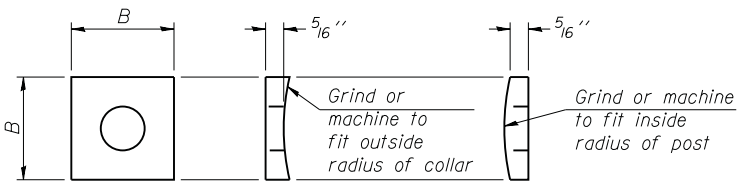
Hole in aluminum plate (and 16 ga. stnl. stl. sheet) to be O.D. post + 1/2"



SECTION C-C



DETAIL C



CONTOURED WASHERS

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

DETAIL OF STAINLESS STEEL SLEEVE

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

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

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

OSC-A-3

9-15-11

COMPANY NAME: HRGreen.com
PROJECT CONTACT: Illinois Professional Design Firm #184-001322
DATE PLOTTED: 5/17/2012 1:46:58 PM
FILE NAME: 86100196.11-sign-03.dgn
PLOT DRIVER: pdfcut
PEN TABLE: Struct 22x34.tbl



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DESIGNED - J. GUERRIERO
DRAWN - J. GUERRIERO
CHECKED - R. DAVIES
PLOT DATE = 5/17/2012

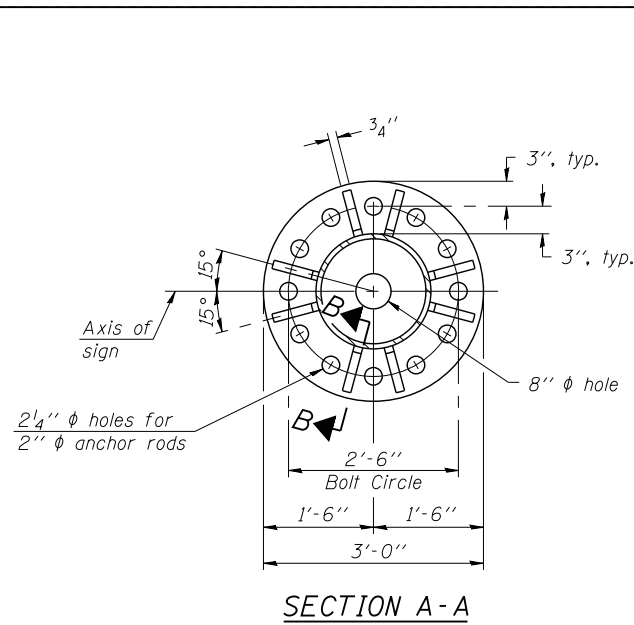
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

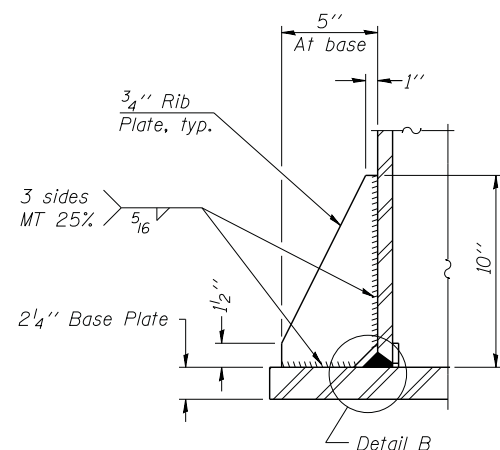
CANTILEVER SIGN STRUCTURES - JUNCTURE DETAILS
ALUMINUM TRUSS & STEEL POST

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

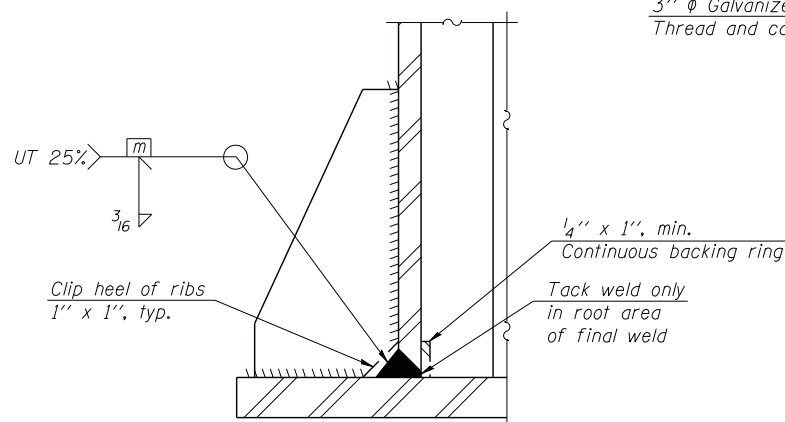
F.A. RTE. 332 SECTION 2011-073-T COUNTY COOK TOTAL SHEETS 44 SHEET NO. 16 CONTRACT NO. 60P93
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



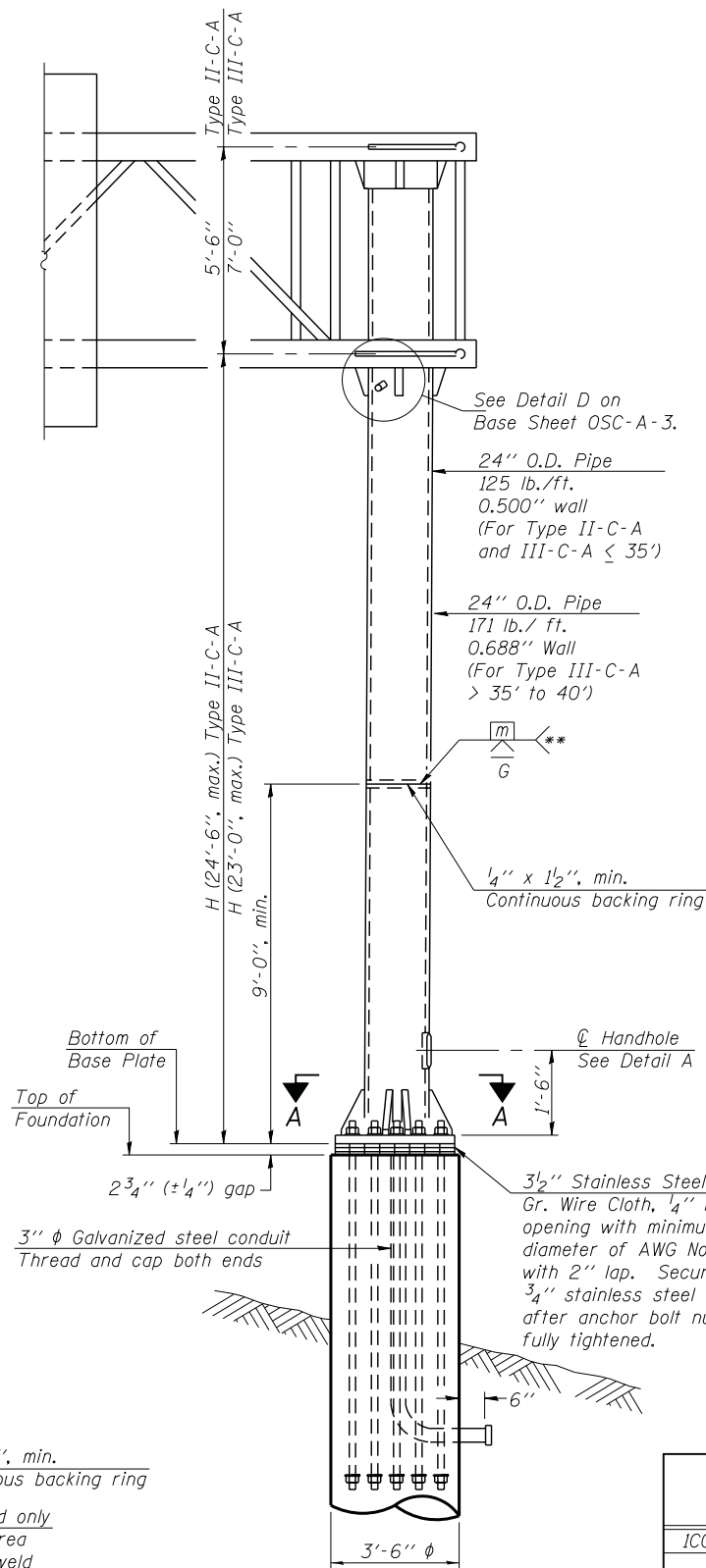
SECTION A-A



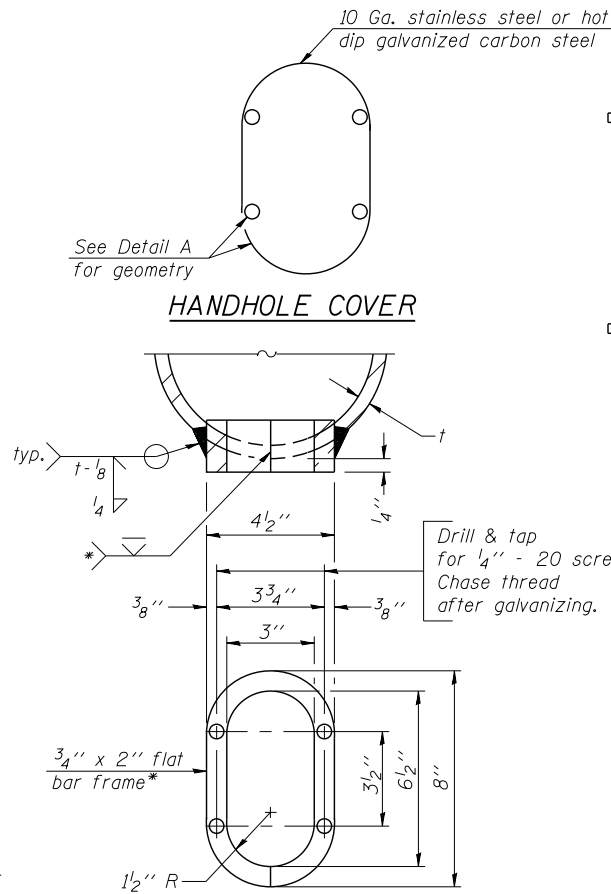
SECTION B-B



DETAIL B
(Typical rib)



FRONT ELEVATION
For Foundation Details
see Base Sheet OSC-A-9.

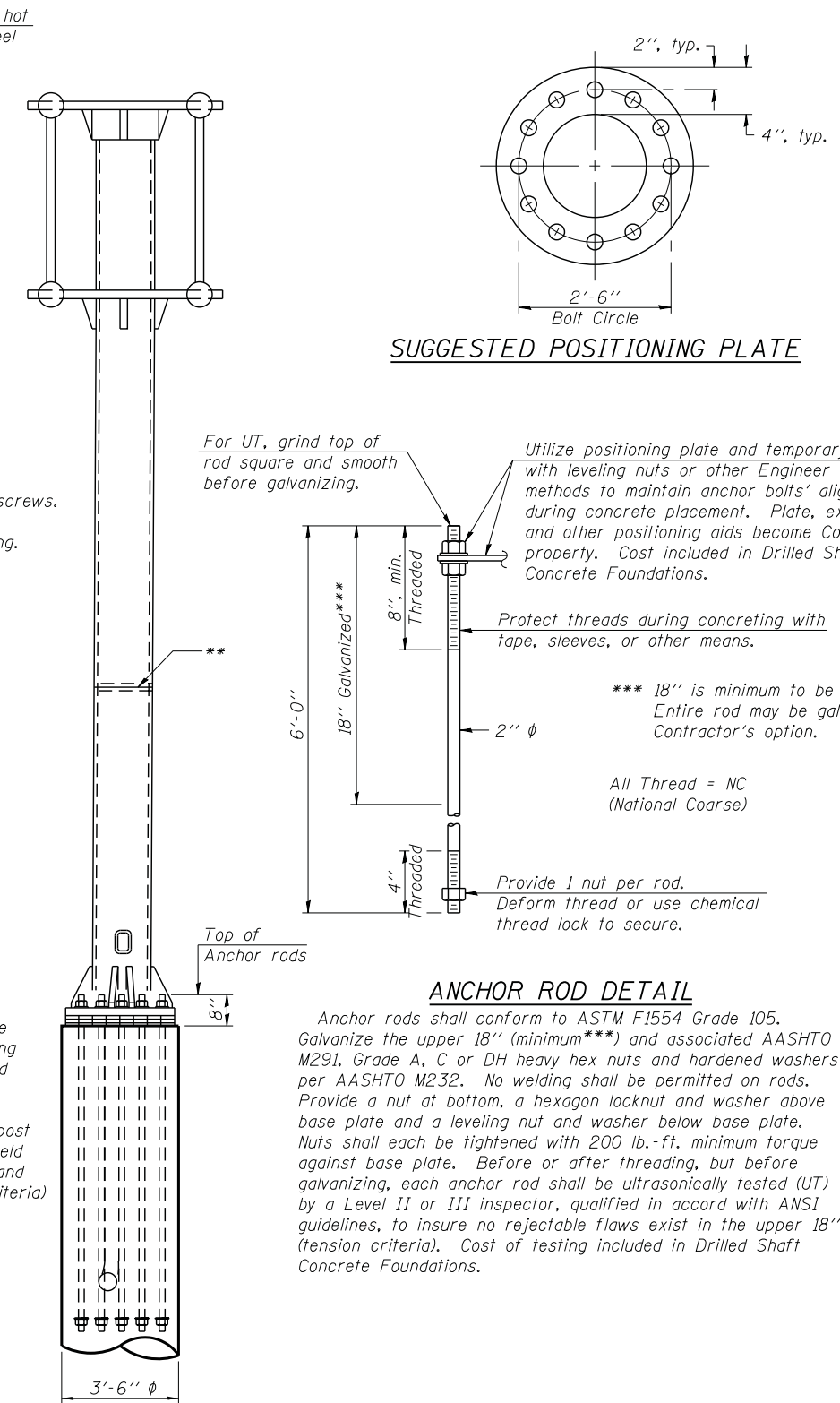


DETAIL A

Provide 8" x 4 1/2" cover. Outside corners = 2 1/4" radius. Provide 4-5/16" ϕ holes in cover for 1/4" - 20 round head hot dip galvanized or stainless steel machine screws. (See cover details.)

* Bent bars may be butt welded top and bottom or bottom only. 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 μ m or less.

** Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.



ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize the upper 18" (minimum***) and associated AASHTO M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide a nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 200 lb.-ft. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III Inspector, qualified in accord with ANSI guidelines, to insure no rejectable flaws exist in the upper 18" (tension criteria). Cost of testing included in Drilled Shaft Concrete Foundations.

*** 18" is minimum to be galvanized. Entire rod may be galvanized at Contractor's option.

All Thread = NC (National Coarse)

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

Structure Number	Station	H
1C016394L000.0-001	124+60.00 LT	19'-0"

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

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: J. GUERRIERO
 DATE PLOTTED: 6/12/2012 7:55:45 AM
 FILE NAME: 86100196.11-sign-05.dgn
 PLOT DRIVER: pafsoft
 PEN TABLE: standard-trans.tbl

OSC-A-5 9-15-11

HRGreen.com
 Illinois Professional Design Firm
 #184-001322

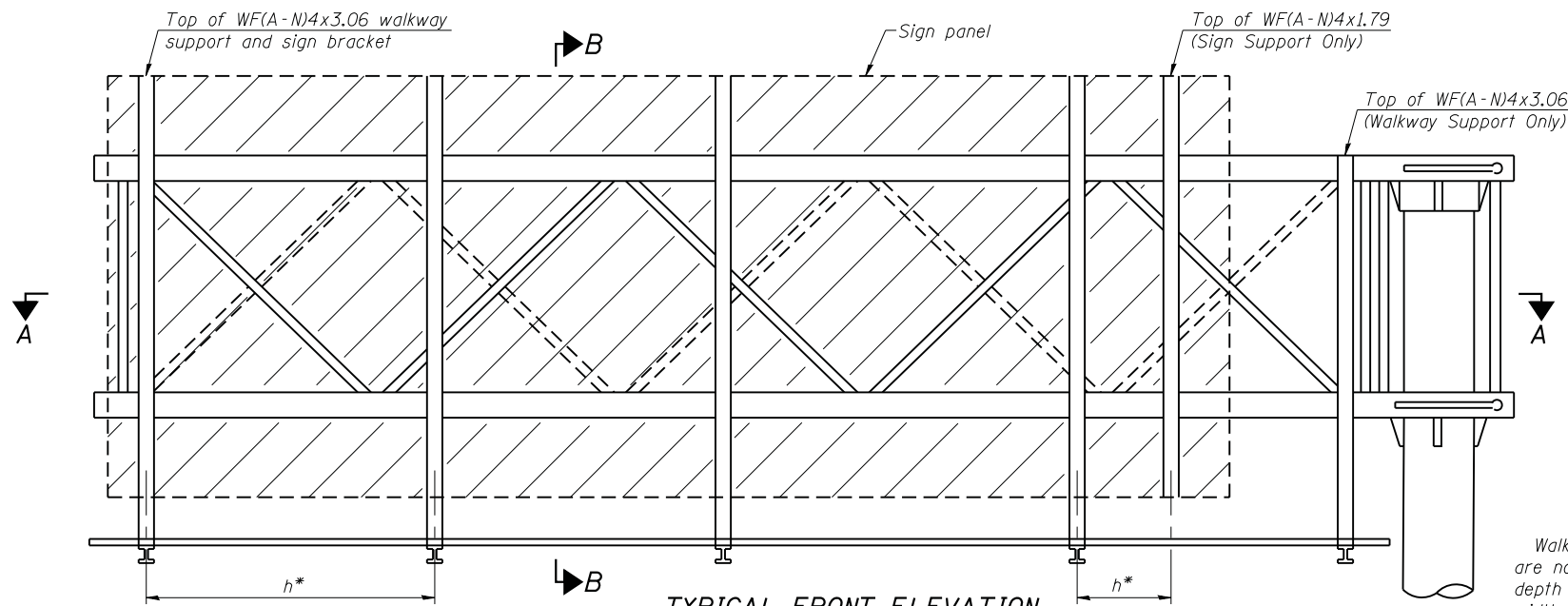
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PLOT DATE = 6/12/2012	CHECKED - R. DAVIES	REVISED -
	DATE - 6/11/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

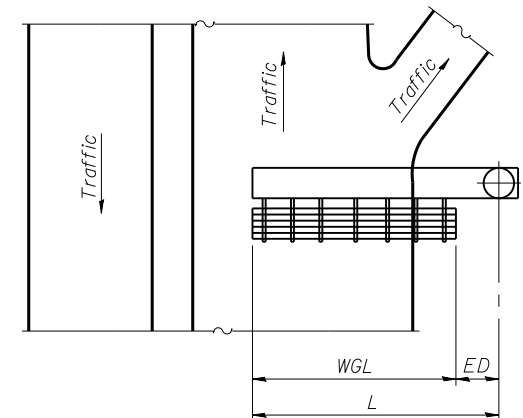
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FED. ROAD DIST. NO. ILLINOIS			CONTRACT NO. 60P93	

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

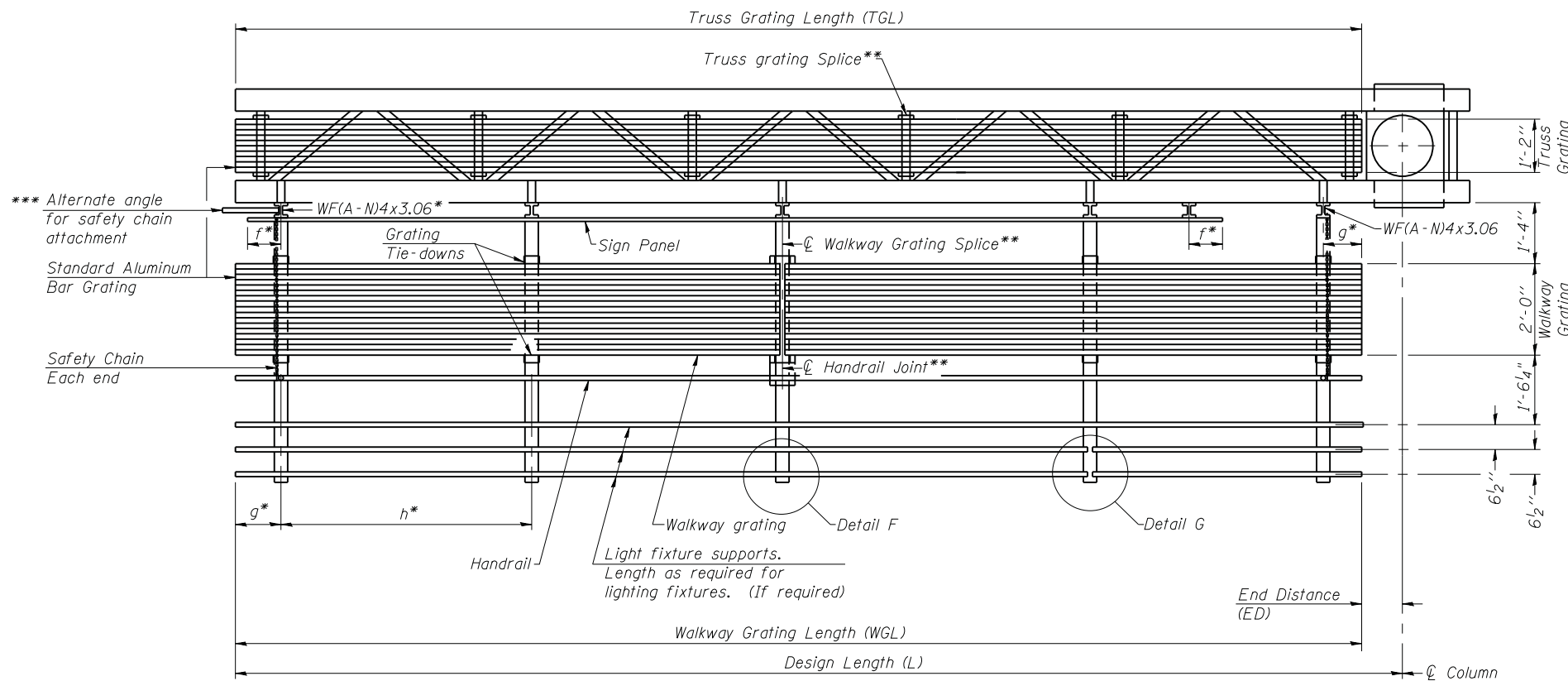


TYPICAL FRONT ELEVATION
With lights and handrail omitted for clarity.

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



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



SECTION A-A

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

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

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

Structure Number	Station	WGL	ED	TGL

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

f = 12" maximum, 4" minimum (End of sign to CL of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway to CL of nearest bracket)
h = 6'-0" maximum (CL to CL sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
*** If walkway bracket at safety chain location is behind sign, add angle to bracket. See alternate safety chain attachment on base sheet OSC-A-8

For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Base Sheet OSC-A-7.
For details of handrail, handrail joint, safety chain and Details F and G, see Base Sheet OSC-A-8.

BRACKET TABLE

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

COMPANY NAME: HRGreen
 PROJECT CONTACT: J. GUERRIERO
 DATE PLOTTED: 5/17/2012 14:50:08 PM
 FILE NAME: 86100196.11-sign-06.dgn
 PLOT DRIVER: pafact
 PEN TABLE: Struct 22x34.tbl

OSC-A-6

9-15-11



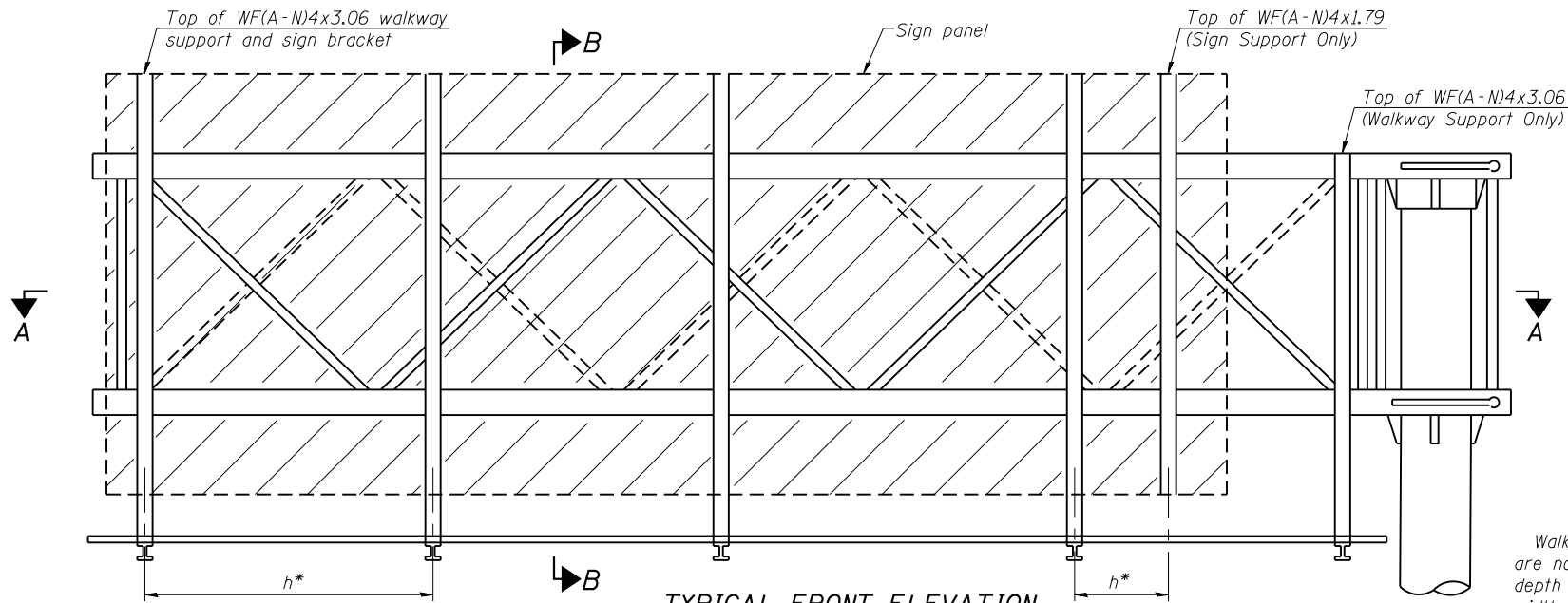
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PLOT DATE = 5/17/2012	CHECKED - R. DAVIES	REVISED -
	DATE - 5/17/12	REVISED - N/A

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

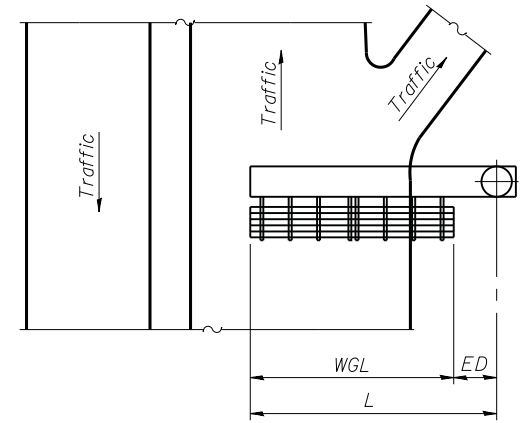
**CANTILEVER SIGN STRUCTURES – ALUMINUM WALKWAY
DETAILS – ALUMINUM TRUSS & STEEL POST**

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE. 332	SECTION 2011-073-T	COUNTY COOK	TOTAL SHEETS 44	SHEET NO. 19
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P93	

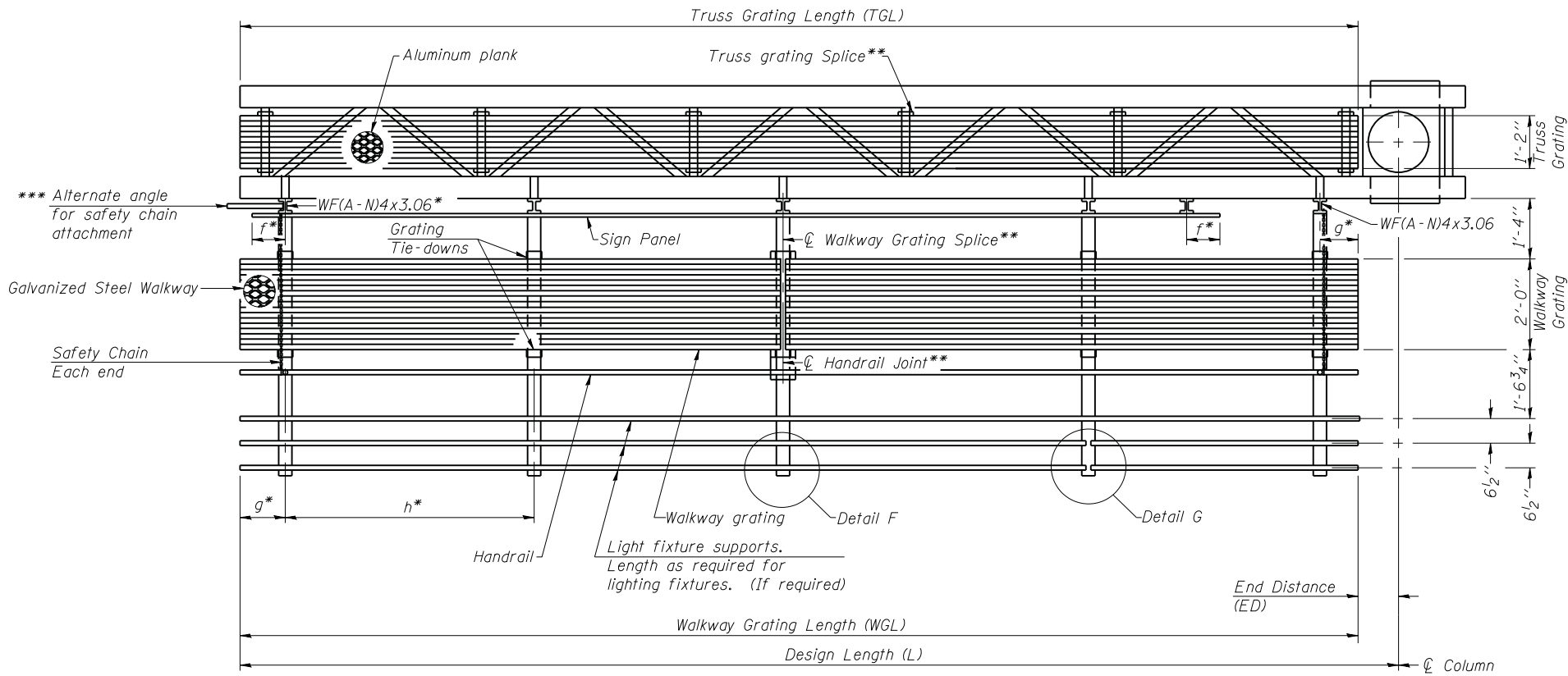


TYPICAL FRONT ELEVATION
With lights and handrail omitted for clarity.



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

Walkway and truss grating dimensions are nominal and may vary (width $\pm 1/2''$, depth $\pm 1/2''$) based on available standard widths.



SECTION A-A

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

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

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

Structure Number	Station	WGL	ED	TGL

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

BRACKET TABLE

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

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OSC-A-6S

9-15-11



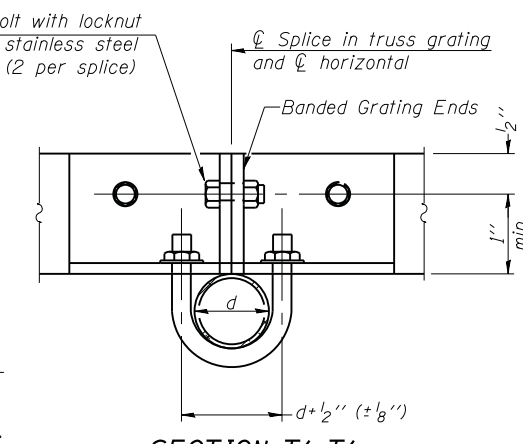
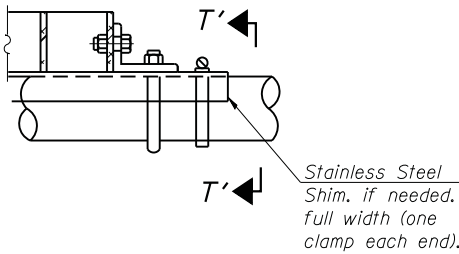
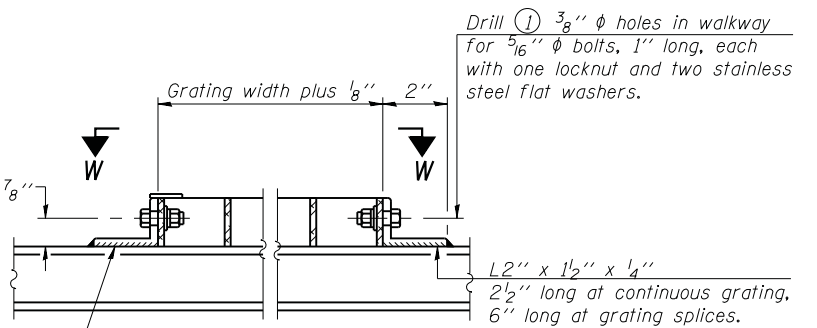
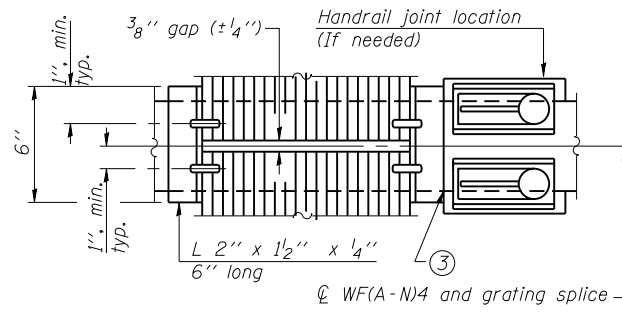
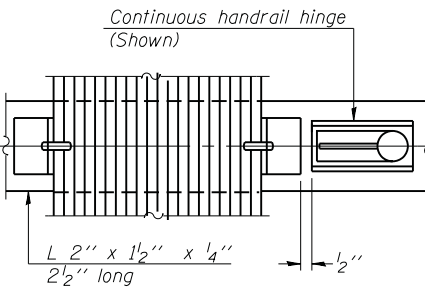
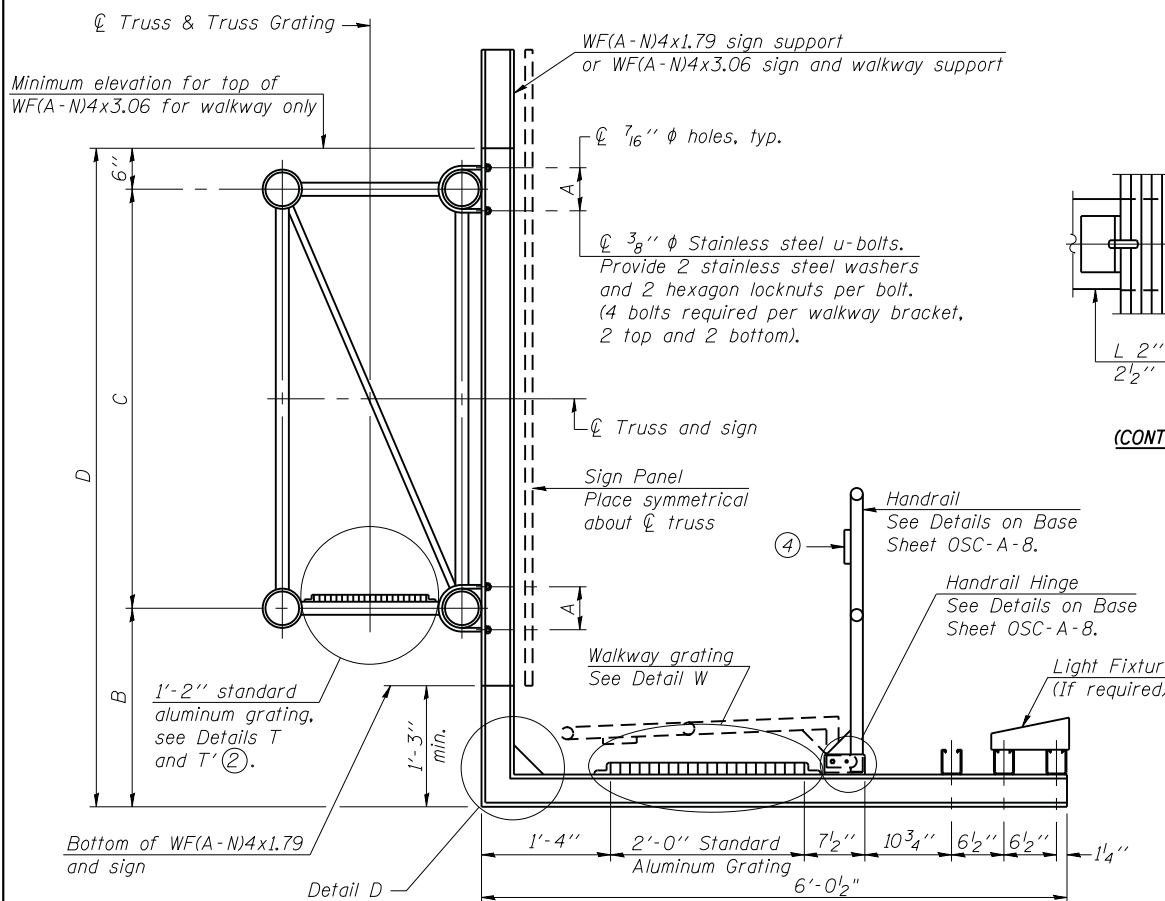
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PLOT DATE = 5/17/2012	CHECKED - R. DAVIES	REVISED -
	DATE - 5/17/12	REVISED - N/A

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

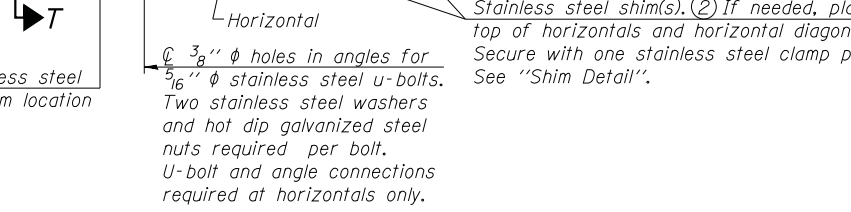
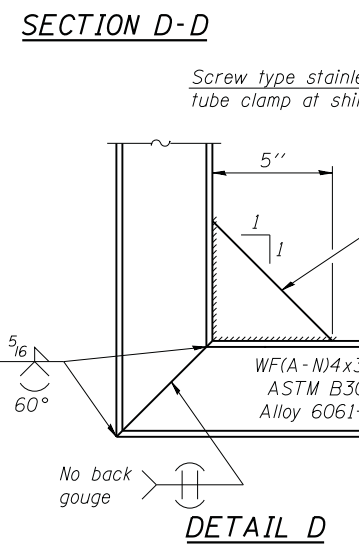
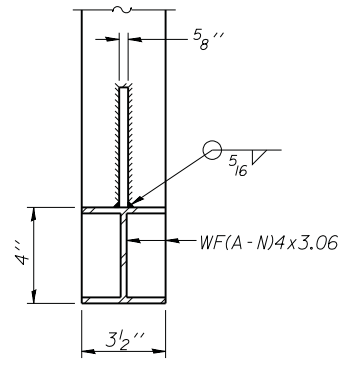
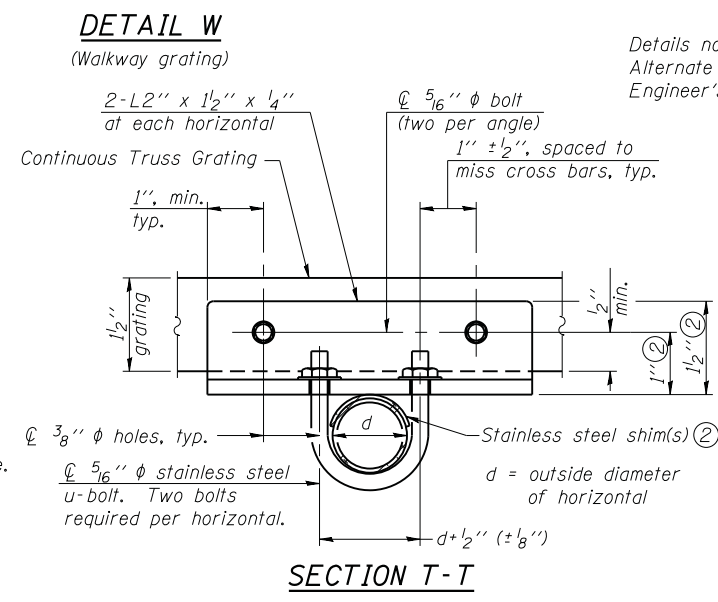
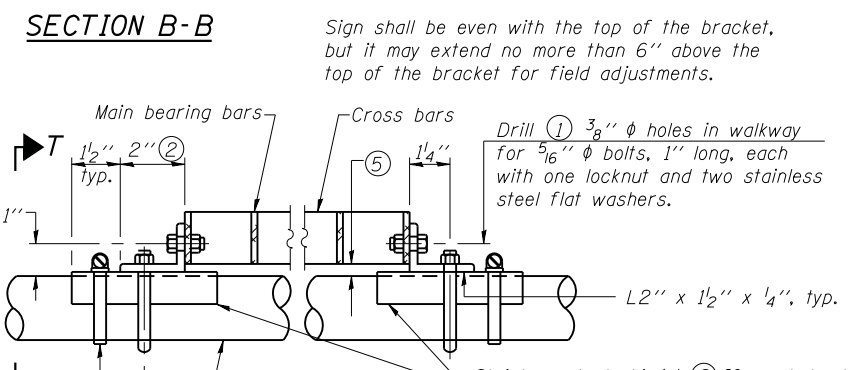
F.A. RTE. 332	SECTION 2011-073-T	COUNTY COOK	TOTAL SHEETS 44	SHEET NO. 20
CONTRACT NO. 60P93			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.



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

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



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

Structure Number	Station	A	⑥ B	C	⑥ D
1C016394L000.0-001	124+60.00 LT	8 5/8"	1'-0"	7'-0"	9'-0"

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: Illinois Professional Design Firm #184-001322
 DATE PLOTTED: 5/17/2012 14:26 PM
 FILE NAME: 86100196.11-sign-07.dgn
 PLOT DRIVER: pafach
 PEN TABLE: Struct 22x34.tbl

OSC-A-7 9-15-11

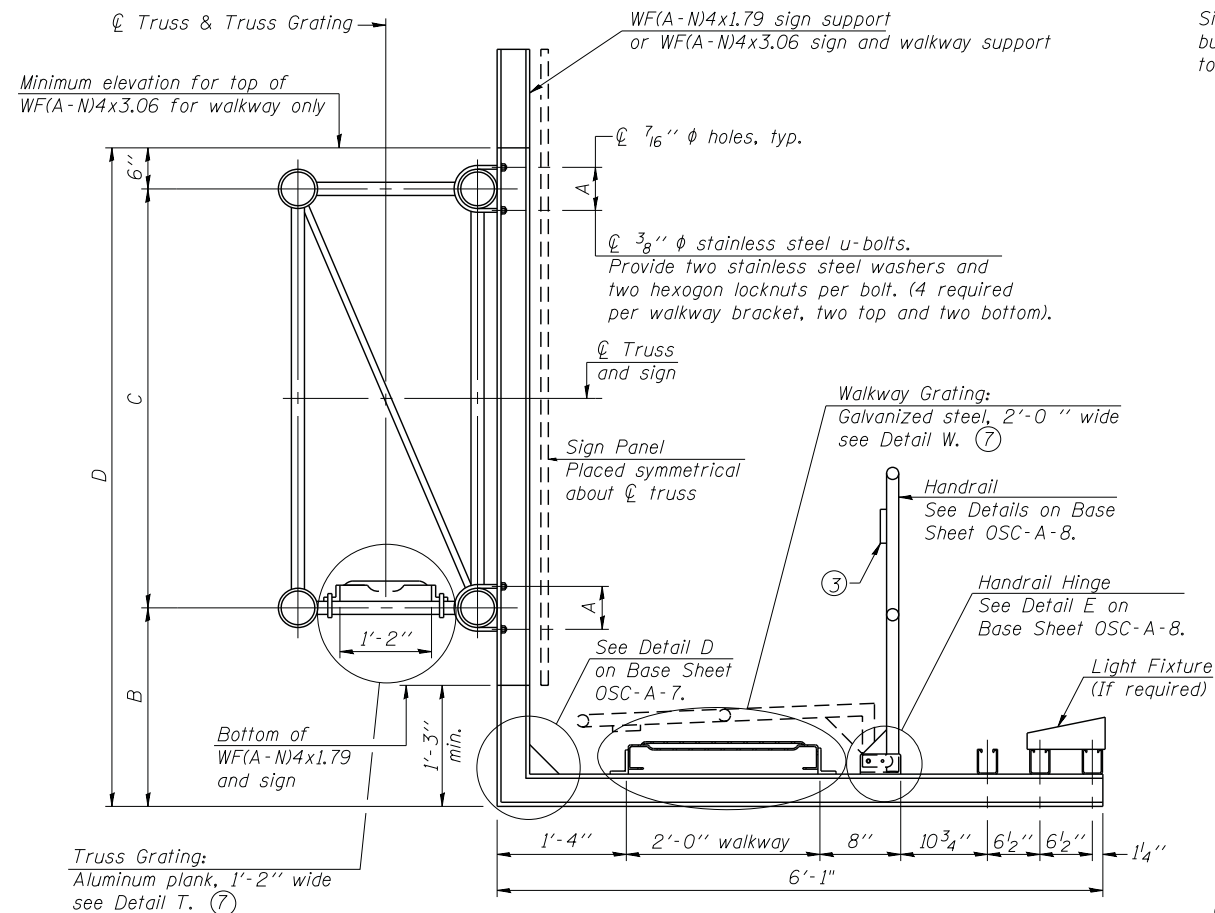
DESIGNED - J. GUERRIERO	REVISED -
DRAWN - J. GUERRIERO	REVISED -
CHECKED - R. DAVIES	REVISED -
DATE - 5/17/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

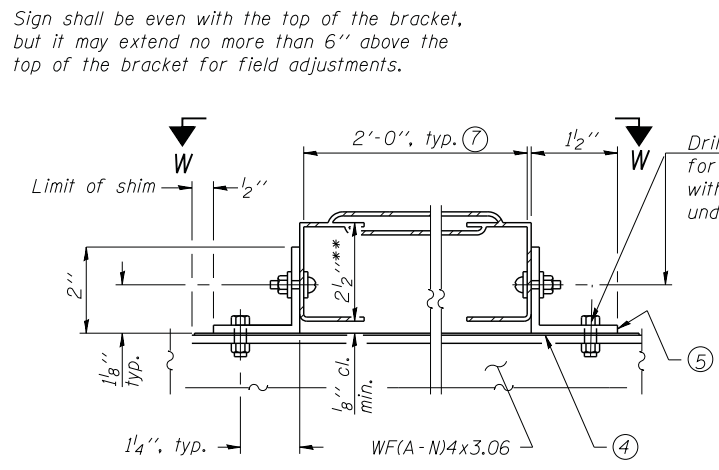
CANTILEVER SIGN STRUCTURES - WALKWAY DETAILS
ALUMINUM TRUSS & STEEL POST

F.A. RTE. 332	SECTION 2011-073-T	COUNTY COOK	TOTAL SHEETS 44	SHEET NO. 21
CONTRACT NO. 60P93			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

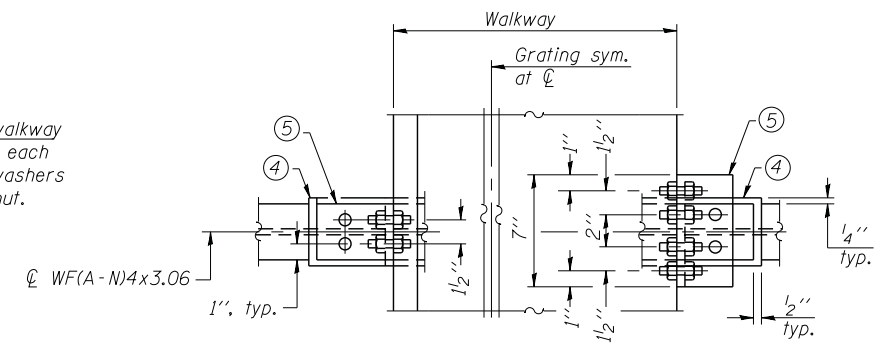
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SECTION B-B

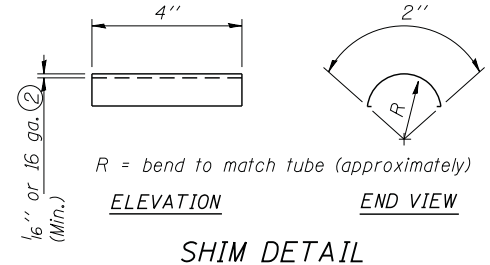


**DETAIL W
GALVANIZED STEEL WALKWAY GRATING**



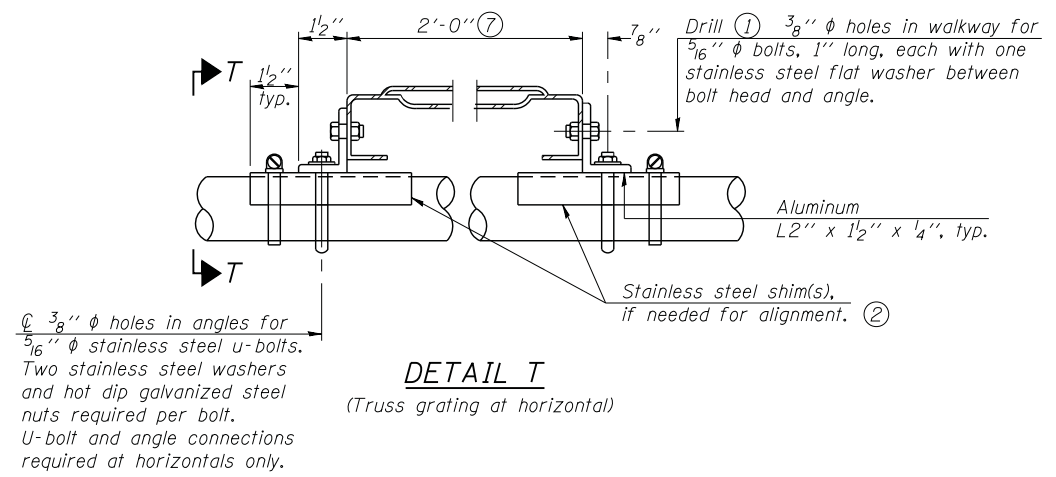
WALKWAY GRATING CONTINUOUS AT WALKWAY GRATING SPLICE

SECTION W-W

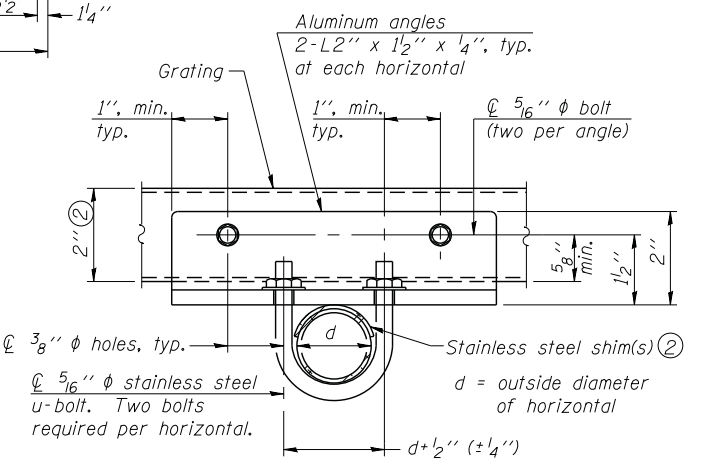


SHIM DETAIL

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

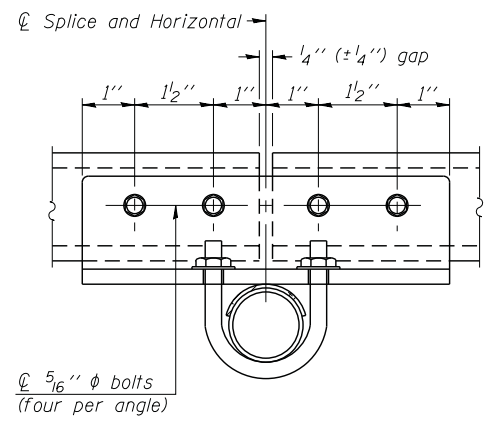


**DETAIL T
(Truss grating at horizontal)**



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

ALUMINUM TRUSS GRATING



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

Alternate splice details and locations may be used subject to the Engineer's review and approval.

Structure Number	Station	A	⑧ B	C	⑧ D
1C016394L000.0-001	124+60.00 LT	8 5/8"	2'-0"	7'-0"	10'-0"

OSC-A-7S

9-15-11



USER NAME = jguerr1
 DESIGNED - J. GUERRIERO
 DRAWN - J. GUERRIERO
 CHECKED - R. DAVIES
 PLOT DATE = 6/12/2012

REVISIONS
 REVISED -
 REVISED -
 REVISED -
 REVISED -

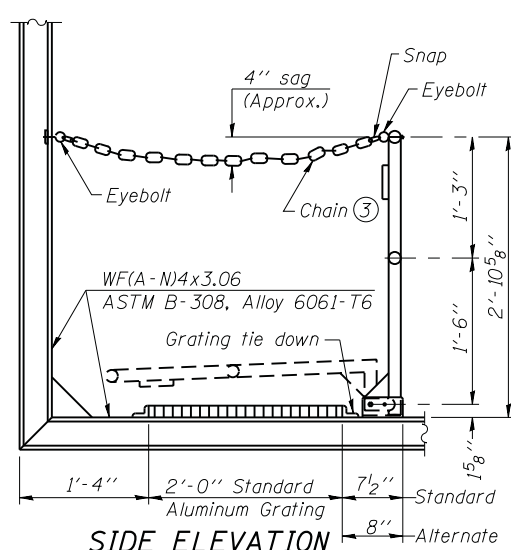
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES
 ALTERNATE WALKWAY DETAILS

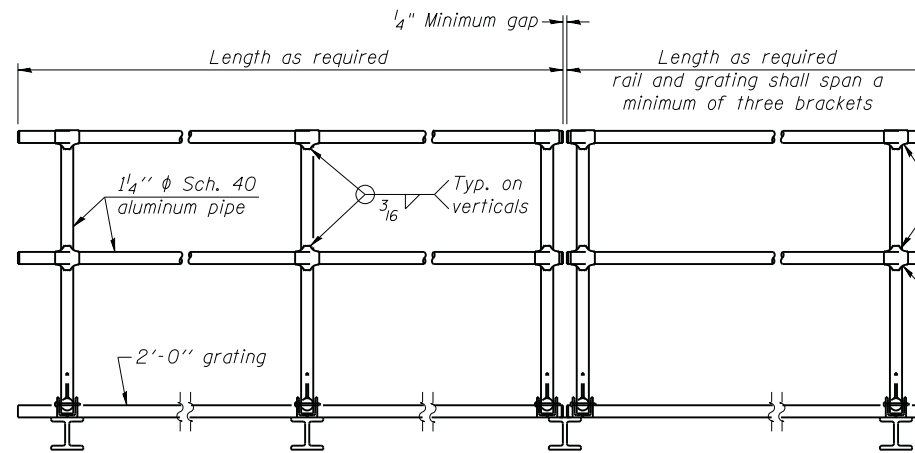
SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2011-073-T	COOK	44	22
CONTRACT NO.			60P93	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

COMPANY NAME: HRGreen
 PROJECT CONTACT: J. GUERRIERO
 DATE PLOTTED: 6/12/2012 7:57:51 AM
 FILE NAME: 86100196.11-sgn-075.dgn
 PLOT DRIVER: pafplot
 PEN TABLE: standard-trans.tbl
 6-91-631-11
 86100196.11-sgn-075.dgn



SIDE ELEVATION
(Showing Safety Chain W/O Sign)

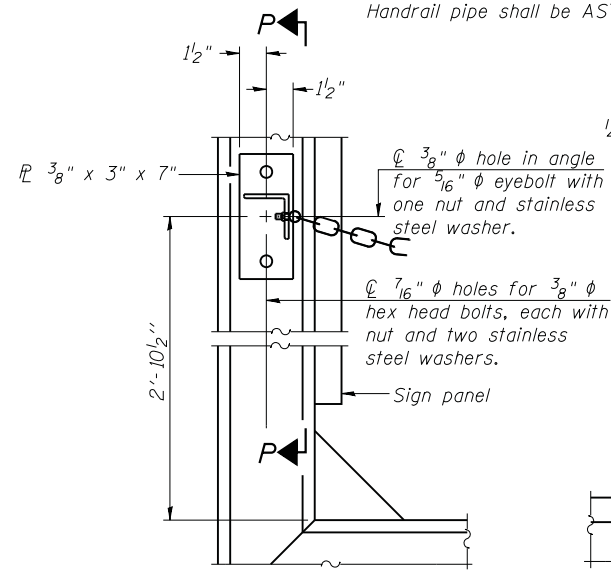


FRONT ELEVATION

HANDRAIL DETAILS

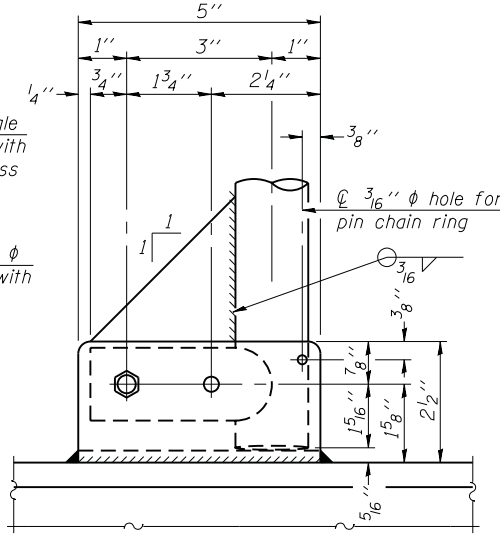
Handrail pipe shall be ASTM B241 or B429, Alloy 6063-T6 or Alloy 6061-T6.

① Install standard force-fit end caps or weld 1/8\"/>

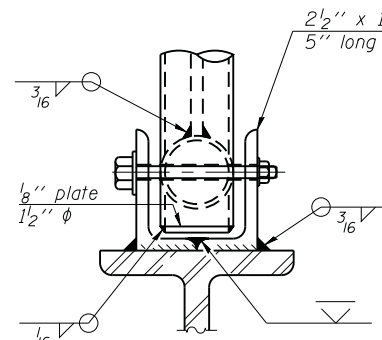


ALTERNATE SAFETY CHAIN ATTACHMENT
(With Sign Present)

Items not shown same as "Side Elevation" of "Handrail Details"



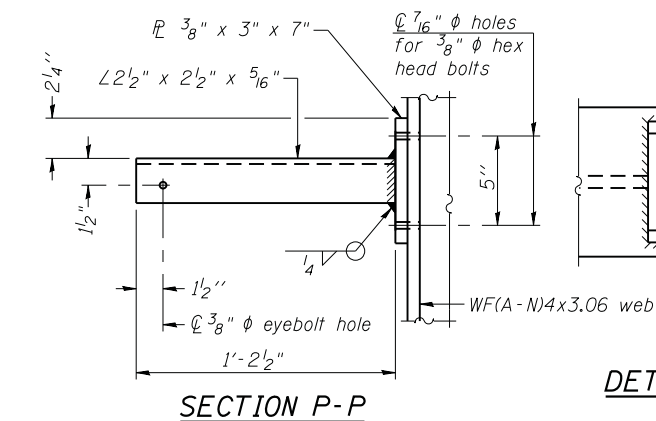
SIDE ELEVATION



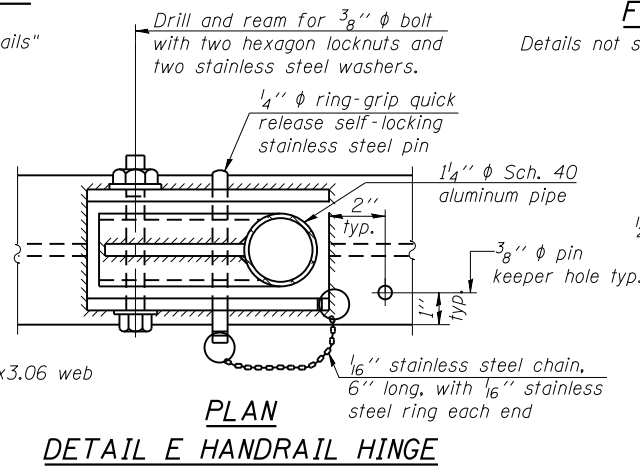
FRONT ELEVATION

Details not shown same as "ELEVATION" at right.

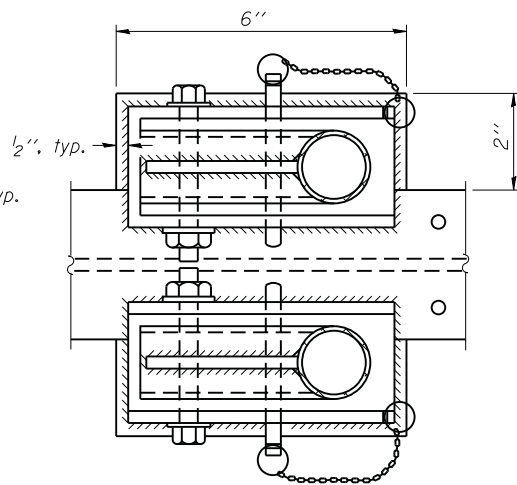
ELEVATION AT HANDRAIL JOINT ④
Details not shown same as "FRONT ELEVATION"



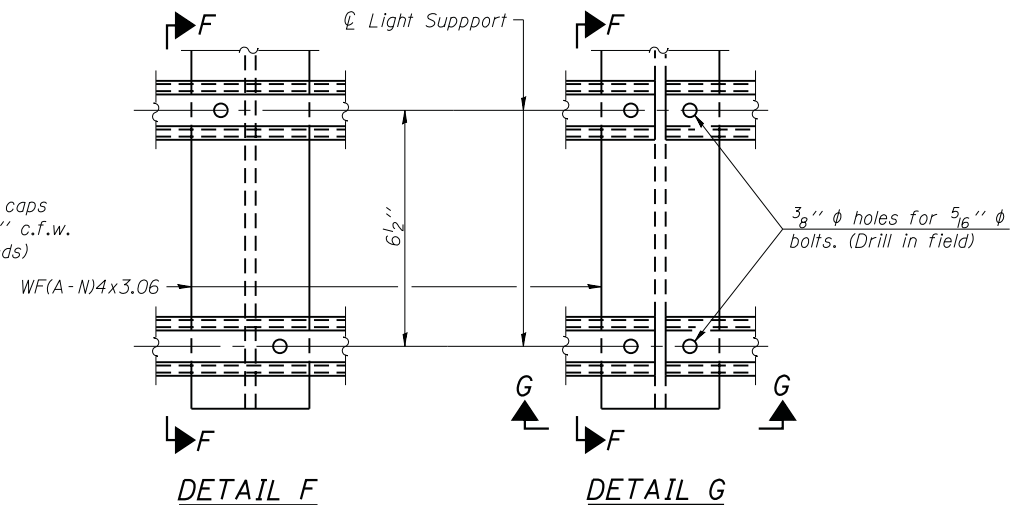
SECTION P-P



PLAN
DETAIL E HANDRAIL HINGE

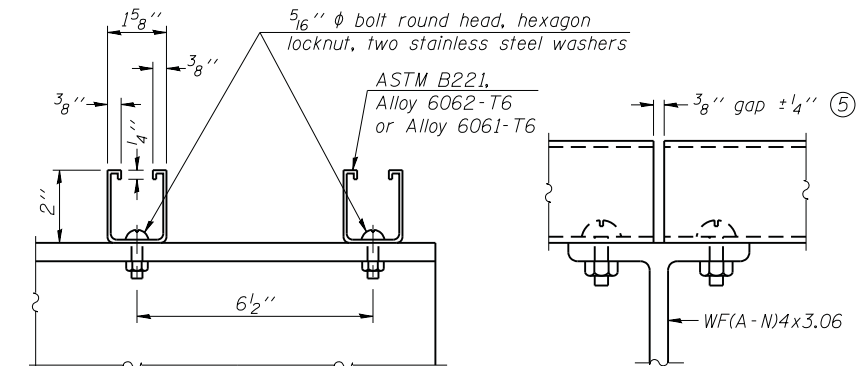


PLAN AT HANDRAIL JOINT
Details not shown same as "PLAN"



DETAIL F

DETAIL G

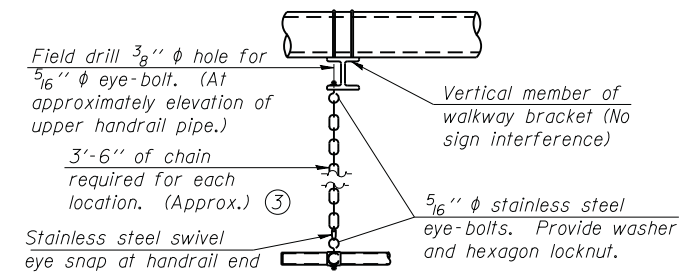


SECTION F-F

SECTION G-G

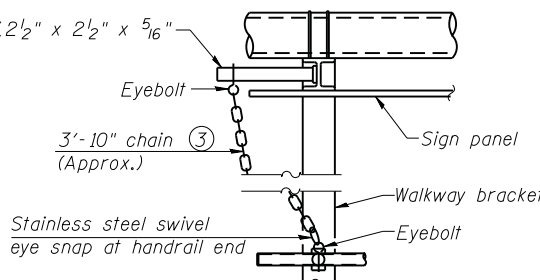
LIGHTING FIXTURE MOUNTS (IF REQUIRED)

⑤ Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.



SAFETY CHAIN

One required for each end of each walkway.



ALTERNATE SAFETY CHAIN ATTACHMENT
Details not shown similar to "Safety Chain" Details
(Walkway omitted for clarity)

③ 3/16\"/>

④ Extrusions may be used in lieu of the details shown, with approval of the Engineer.

COMPANY NAME: HRGreen.com
PROJECT CONTACT: Illinois Professional Design Firm #184-001322
DATE PLOTTED: 5/17/2012 14:42:24 PM
FILE NAME: 86100196.11-sign-08.dgn
PLOT DRIVER: pdfcut
PEN TABLE: Struct 22x34.tbl

OSC-A-8

9-15-11



USER NAME = mhardin	DESIGNED - J. GUERRIERO	REVISED -
PLOT SCALE = N/A	DRAWN - J. GUERRIERO	REVISED -
PLOT DATE = 5/17/2012	CHECKED - R. DAVIES	REVISED -
	DATE - 5/17/12	REVISED -

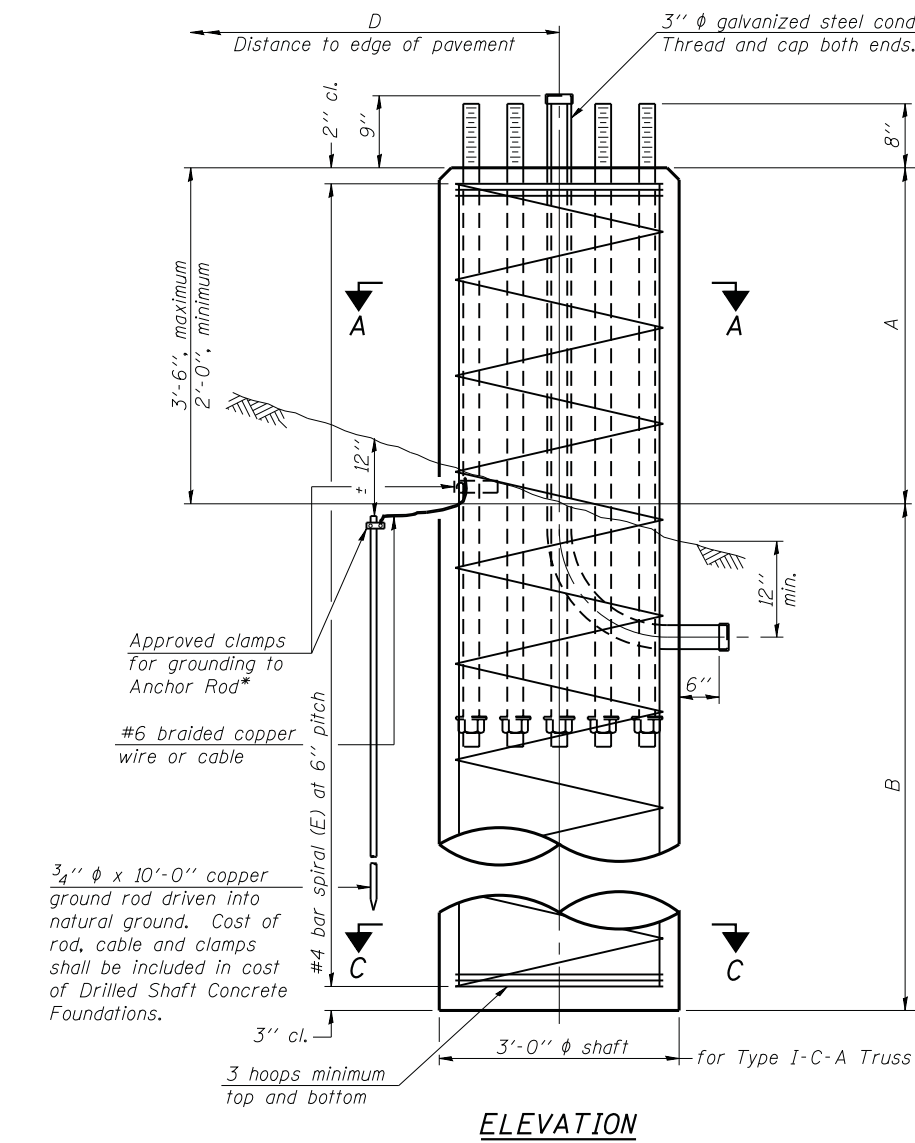
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - HANDRAIL DETAILS
ALUMINUM TRUSS & STEEL POST

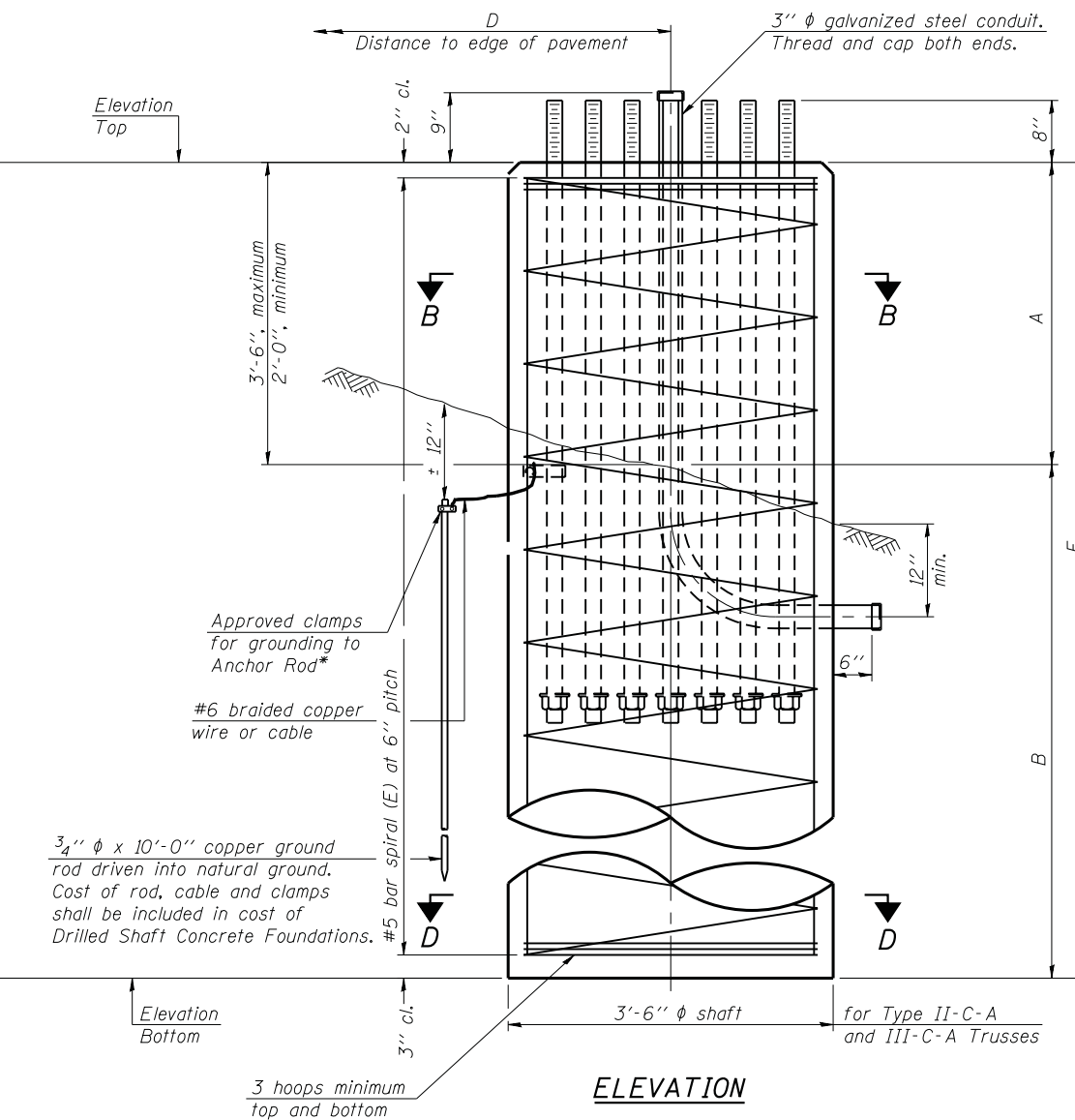
SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE. 332	SECTION 2011-073-T	COUNTY COOK	TOTAL SHEETS 44	SHEET NO. 23
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P93	

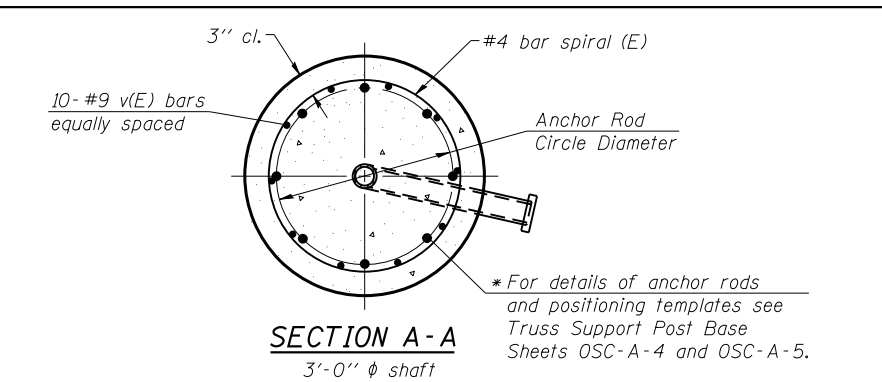
* Grind anchor rod to bright finish at ground clamp location before installing clamp.



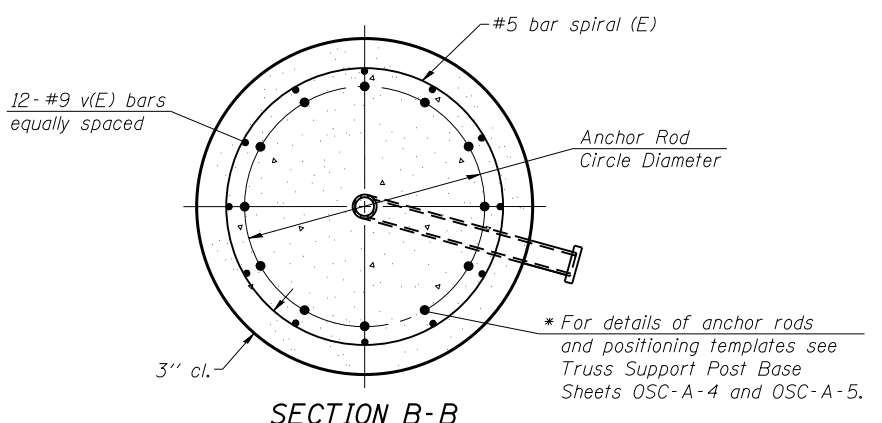
ELEVATION



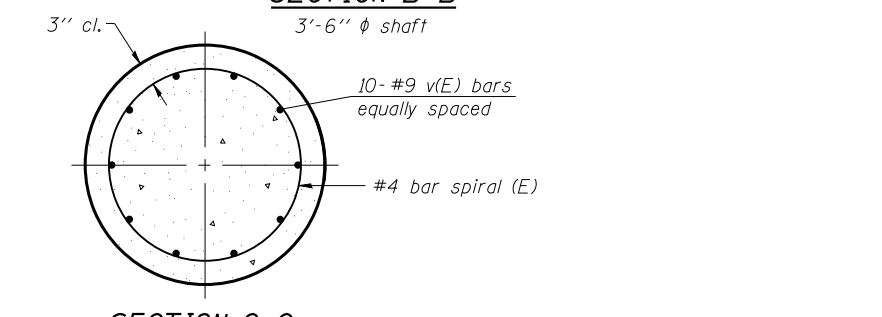
ELEVATION



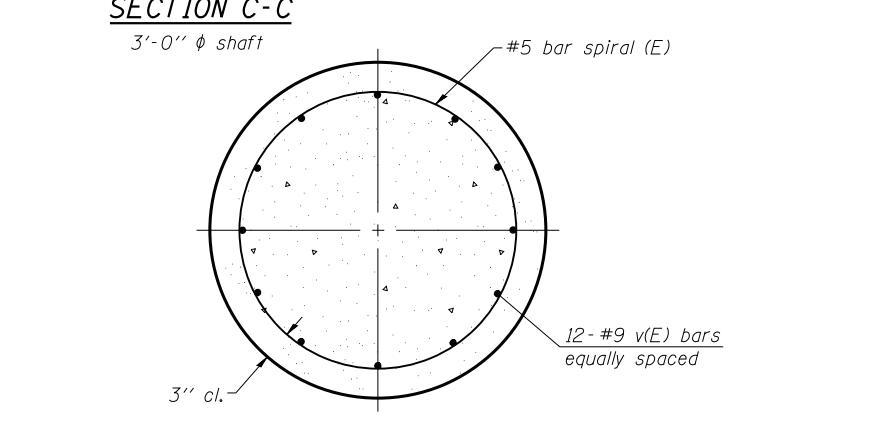
SECTION A-A
3'-0" ϕ shaft



SECTION B-B
3'-6" ϕ shaft



SECTION C-C
3'-0" ϕ shaft



SECTION D-D
3'-6" ϕ shaft

NOTES:

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

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

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

Concrete shall be placed monolithically, without construction joints.

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

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

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

Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Q_u	A	B	F	Class DS Concrete Cubic Yards
1C016394L000.0-001	124+60.00	III-C-A	3'-6"	639.30	604.30	1.5 tsf	3'-0"	32'-0"	35'-0"	12.5

OSC-A-9

9-15-11

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: Illinois Professional Design Firm #184-001322
 DATE PLOTTED: 5/17/2012 14:42:28 PM
 FILE NAME: 8610019611-sign-09.dgn
 PLOT DRIVER: pdfcut
 PEN TABLE: Struct 22x34.tbl



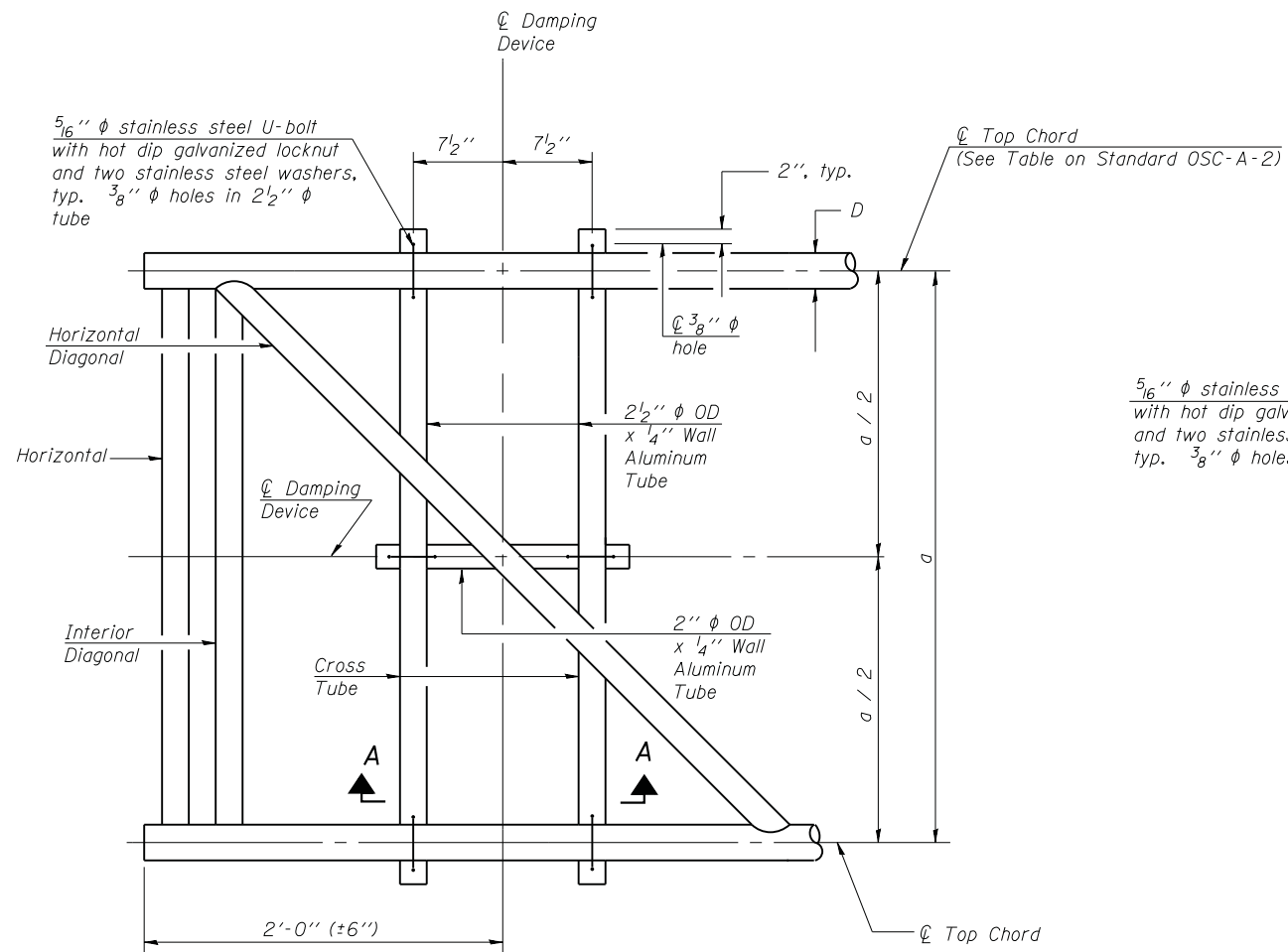
USER NAME = mhardin
 DESIGNED - J. GUERRIERO
 DRAWN - J. GUERRIERO
 CHECKED - R. DAVIES
 PLOT DATE = 5/17/2012

REVISED -
 REVISED -
 REVISED -
 REVISED -

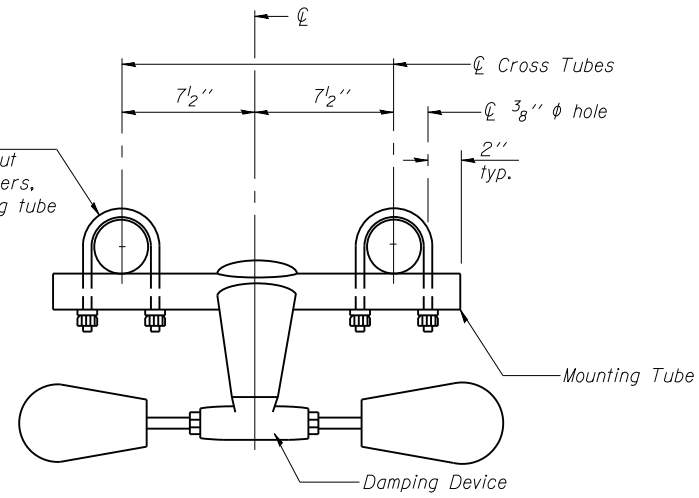
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - DRILLED SHAFT
 ALUMINUM TRUSS & STEEL POST
 SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

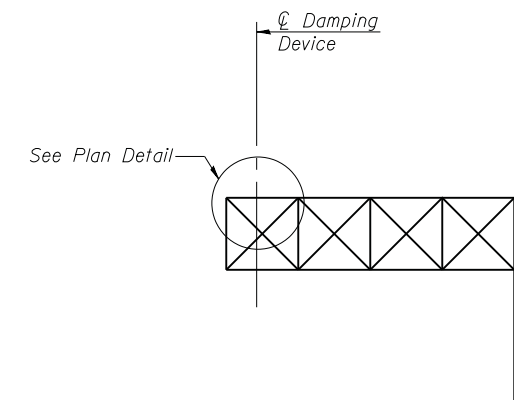
F.A. RTE. 332 SECTION 2011-073-T COUNTY COOK TOTAL SHEETS 44 SHEET NO. 24 CONTRACT NO. 60P93
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



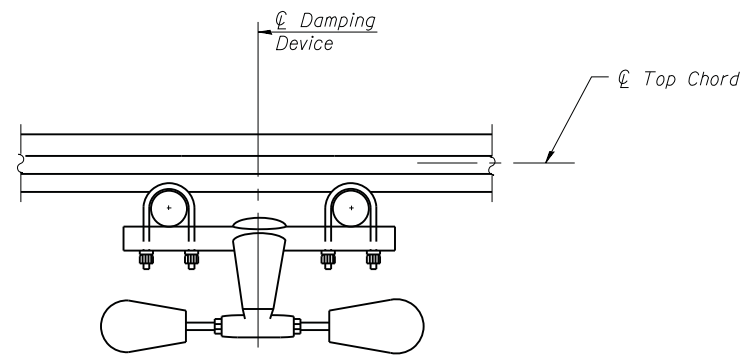
PLAN DETAIL



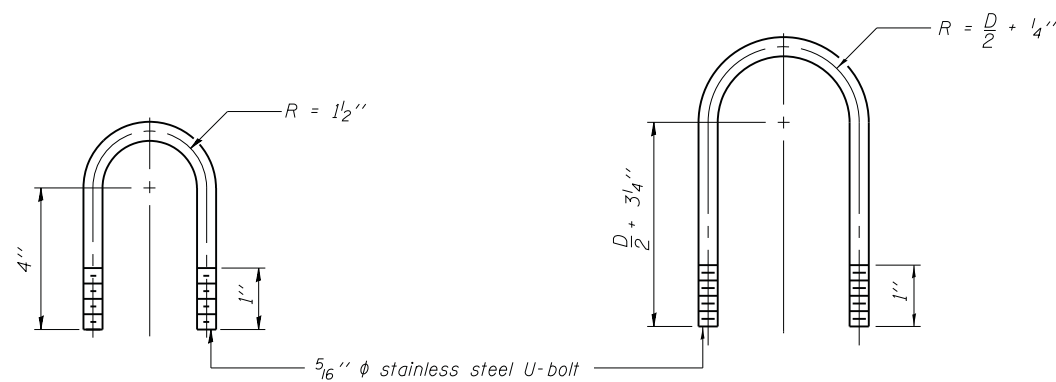
TRUSS DAMPING DEVICE CONNECTION DETAIL



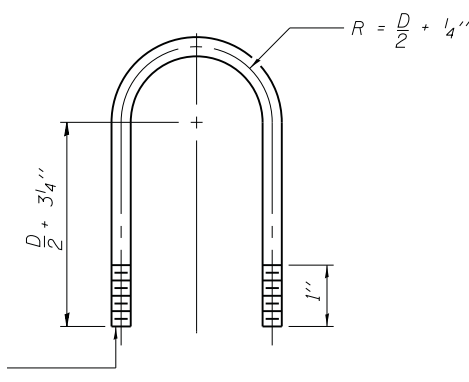
ELEVATION
Aluminum Cantilever Sign Structure



SECTION A-A



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical)

GENERAL NOTES

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

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen
 DATE PLOTTED: 5/17/2012 14:43:32 PM
 FILE NAME: 86100196.11-sign-10.dgn
 PLOT DRIVER: pdfcut
 PEN TABLE: Struct 22x34.tbl

OSC-A-D

9-15-11



USER NAME = mhardin	DESIGNED - J. GUERRIERO	REVISED -
PLOT SCALE = N/A	DRAWN - J. GUERRIERO	REVISED -
PLOT DATE = 5/17/2012	CHECKED - R. DAVIES	REVISED -
	DATE - 5/17/12	REVISED -

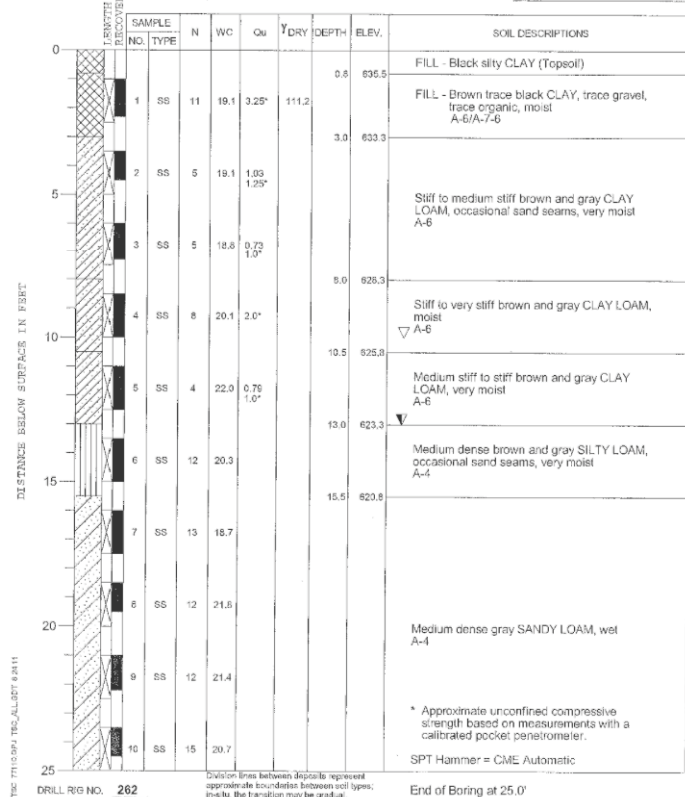
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURE
DAMPING DEVICE

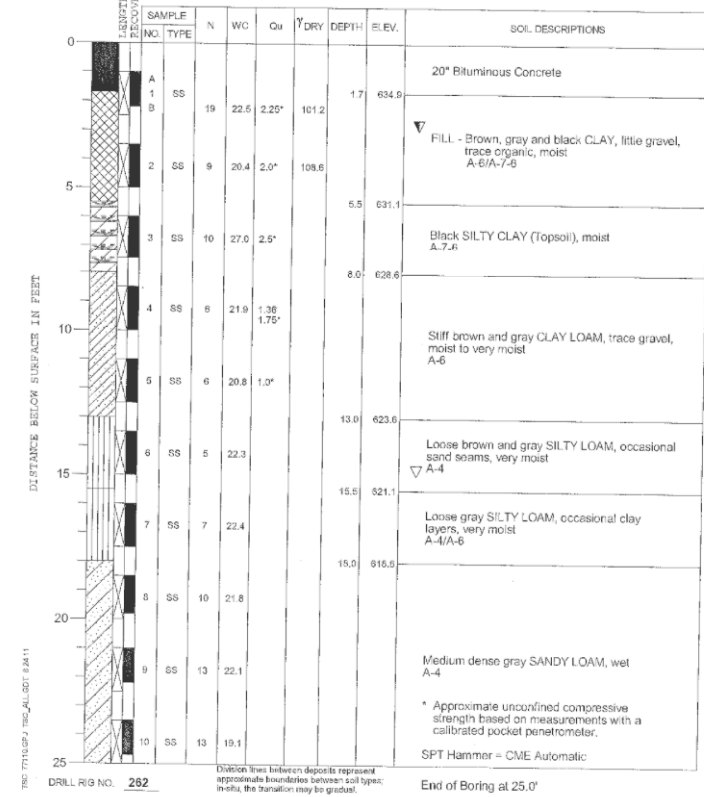
SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2011-073-T	COOK	44	25
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P93	

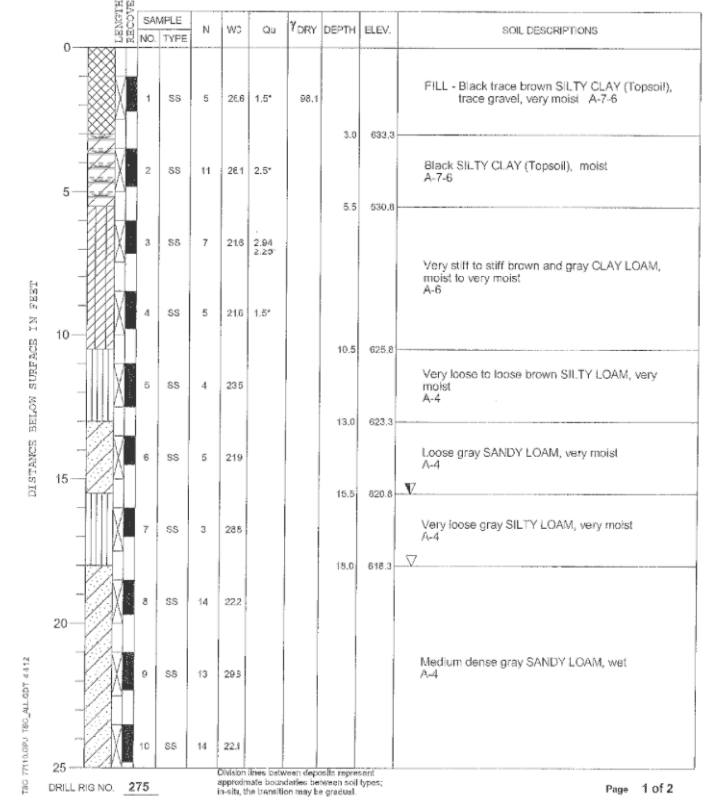
PROJECT **Sewer Sinkhole Repair, I-394 @ US Route 30 Interchange, Ford Heights, IL**
 CLIENT **HR Green, Inc., McHenry, Illinois**
 BORING **1** DATE STARTED **8-4-11** DATE COMPLETED **8-4-11** JOB **L-77,110**
 ELEVATIONS WATER LEVEL OBSERVATIONS
 GROUND SURFACE **636.3** WHILE DRILLING **13.0'**
 END OF BORING **611.3** AT END OF BORING **10.0'**
 Sta. 123+70; 7.1' LT



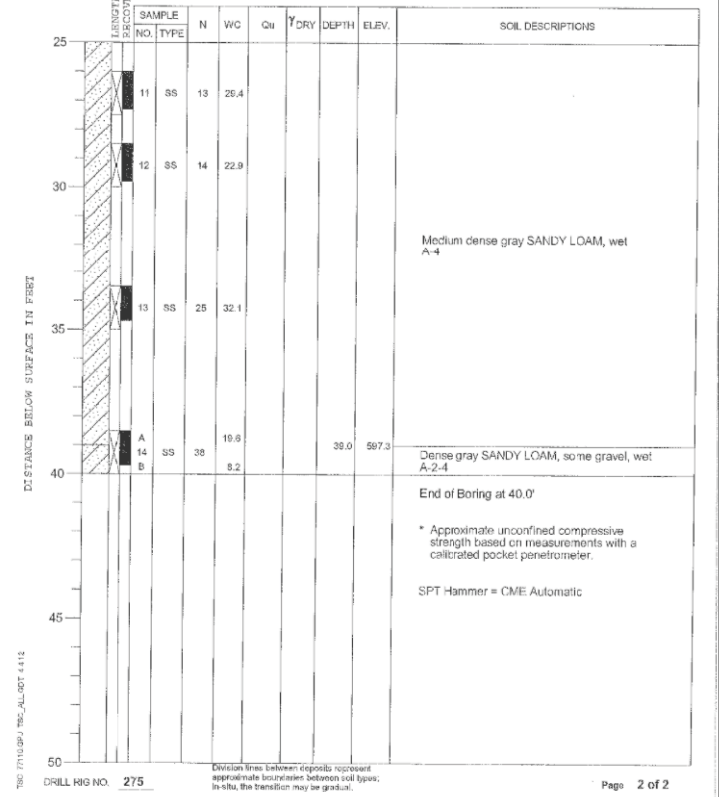
PROJECT **Sewer Sinkhole Repair, I-394 @ US Route 30 Interchange, Ford Heights, IL**
 CLIENT **HR Green, Inc., McHenry, Illinois**
 BORING **2** DATE STARTED **8-4-11** DATE COMPLETED **8-4-11** JOB **L-77,110**
 ELEVATIONS WATER LEVEL OBSERVATIONS
 GROUND SURFACE **636.6** WHILE DRILLING **3.0'**
 END OF BORING **611.6** AT END OF BORING **15.0'**
 Sta. 125+06; 14.6' LT



PROJECT **Cantilever Sign Foundation, I-394 @ US Route 30 Interchange, Ford Heights, IL**
 CLIENT **HR Green, Inc., McHenry, Illinois**
 BORING **101** DATE STARTED **2-17-12** DATE COMPLETED **2-17-12** JOB **L-77,110A**
 ELEVATIONS WATER LEVEL OBSERVATIONS
 GROUND SURFACE **636.3** WHILE DRILLING **15.5'**
 END OF BORING **596.3** AT END OF BORING **18.0'**
 Sta. 124+80; 72.6' LT



PROJECT **Cantilever Sign Foundation, I-394 @ US Route 30 Interchange, Ford Heights, IL**
 CLIENT **HR Green, Inc., McHenry, Illinois**
 BORING **101** DATE STARTED **2-17-12** DATE COMPLETED **2-17-12** JOB **L-77,110A**
 ELEVATIONS WATER LEVEL OBSERVATIONS
 GROUND SURFACE **636.3** WHILE DRILLING **15.5'**
 END OF BORING **596.3** AT END OF BORING **18.0'**
 Sta. 124+80; 72.6' LT



COMPANY NAME: #COMPANY NAME#
 PROJECT CONTACT:
 DATE PLOTTED: 5/17/2012 14:25:35 PM
 FILE NAME: 86100196.II-sol.dgn
 PLOT DRIVER: pdfcut
 PEN TABLE: STruct 22x34.tbl



HRGreen.com
 Illinois Professional Design Firm
 #184-001322

USER NAME = mhardn
 DESIGNED - J. GUERRIERO
 DRAWN - J. GUERRIERO
 CHECKED - R. DAVIES
 PLOT DATE = 5/17/2012

DESIGNED - J. GUERRIERO
 REVISED -
 CHECKED - R. DAVIES
 REVISED -
 DATE - 5/17/12

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: N/A
 SHEET NO. 1 OF 1 SHEETS
 STA. TO STA.

SOIL BORINGS
 ILLINOIS ROUTE 394

F.A. RTE. 332
 SECTION 2011-073-T
 COUNTY COOK
 TOTAL SHEETS 44
 SHEET NO. 26
 CONTRACT NO. 60P93
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	COOK	144	75
SHEETS 8				

GENERAL NOTES

SPECIFICATIONS:
DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, dated January, 1975, 1975.
CONSTRUCTION: Standard Specifications for Road and Bridge Construction, State of Illinois, (dated October 1, 1993) Supplemental Specifications for Road and Bridge Construction; Standard Specifications for Traffic Control Items (dated April 1, 1994) and Special Provisions. (JULY 1, 1988)

MINIMUM CLEARANCE: Vertical Roadway Clearance = 17'-3" (All Obstructions)

LOADING: 80 MPH WIND VELOCITY PLUS 30% GUST FACTOR
WIND LOADING: 35 psf normal to Sign Panel Area as shown below in Wind Loading Diagram plus 48 psf normal to exposed frame members.

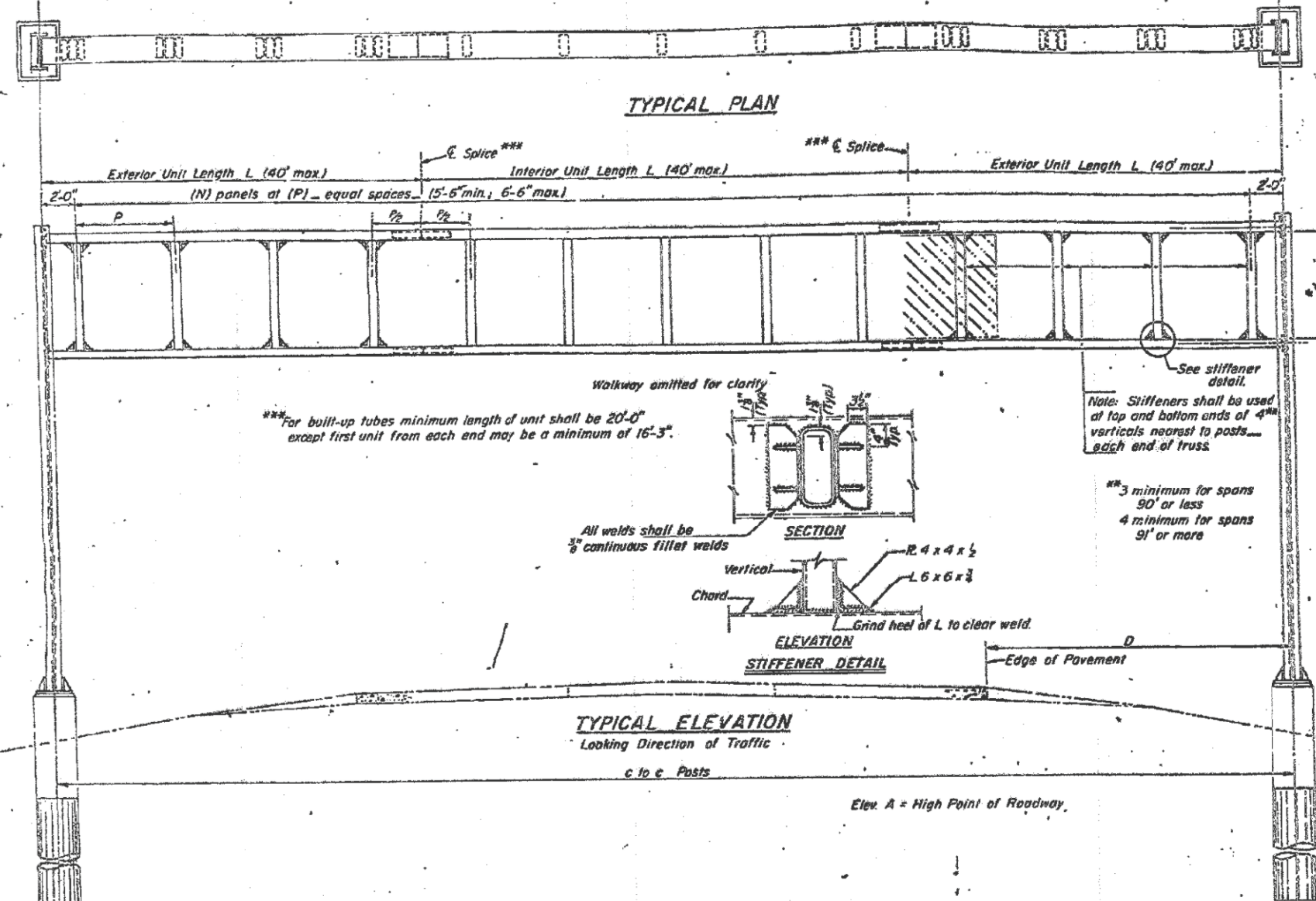
WALKWAY LOADING: Dead Load plus 500# concentrated Live Load

MATERIALS:
REINFORCEMENT BARS shall conform to the requirements of AASHTO M31 or M53, Grade 60.
CLASS X CONCRETE shall be used throughout.
STRUCTURAL STEEL All material for structural chords, verticals, or chord splices shall conform to either ASTM A500, Grade C, AASHTO M222 or AASHTO M223, Grade 50 and shall meet the longitudinal CVN requirements of 15 ft. lbs. at 40° F.
Posts shall conform to AASHTO M222 or M223, Grade 50, and shall meet the longitudinal CVN requirements of 15 ft. lbs. at 40° F.
HIGH STRENGTH BOLTS shall conform to the requirements of AASHTO M164.
STRUCTURAL SHAPES and PLATES shall conform to the requirements of AASHTO M223, Grade 50, or M222, unless otherwise specified.

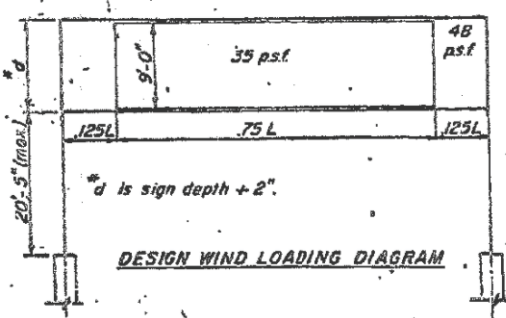
WELD HOLES SHALL BE INSTALLED AT EACH END OF THE SPAN IN THE TOP AND BOTTOM CHORDS (± 1'-0" FROM EACH END).
ALL BOLTS JOINTS IN THE SPAN SHALL BE SEALED WITH AN APPROVED Compound.

PAINTING: The zinc-silicate and vinyl paint system shall be used for shop and field painting of all structural steel. Exterior surfaces of all structural steel that are painted with the high-build vinyl paint shall receive one coat of vinyl enamel. Paint system, including field coat, for the walkway gratings may be done in the shop or just prior to erection. Chords and verticals will require painting on exterior surfaces only. FINAL COAT COLOR SHALL BE STAINLESS STEEL (Color Spec. MS-33).

WELDING: All welding shall be in accordance with Article 507.04(s) of the Standard Specifications for Road and Bridge Construction.



Structure No.	Station	c to c Posts	Elev. A	Dim. D
TN-1	312+20	78'-0"	855.00	18'-0"
TB-1	277+45	78'-0"	837.80	18'-0"



TOTAL BILL of MATERIAL

OVERHEAD SIGN STRUCTURE SPAN (SPECIAL)	Lin. Ft.	152.0
OVERHEAD SIGN STRUCTURE WALKWAY (SPECIAL)	Lin. Ft.	92.0
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	33.89

OVERHEAD SIGN STRUCTURES
GENERAL PLAN & ELEVATION

FOR INFORMATION ONLY

DESIGNED	EXAMINED	19
CHECKED	PASSES	
DRAWN	APPROVED	
CHECKED		

(1) ELEV. A - ESTIMATE ONLY.
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO POURING FOUNDATIONS AND ORDERING FABRICATION.

OS-5-1 SPECIAL

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen
 DATE PLOTTED: 5/17/2012 14:42:42 PM
 FILE NAME: 8610019611-081-03.dgn
 PLOT DRIVER: pdefact
 PEN TABLE: Struct 22x34.tbl



USER NAME = mhardin
 DESIGNED - J. GUERRIERO
 DRAWN - J. GUERRIERO
 CHECKED - R. DAVIES
 PLOT DATE = 5/17/2012

REVISOR -
 REVISION -
 REVISION -
 REVISION -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
ILLINOIS ROUTE 394

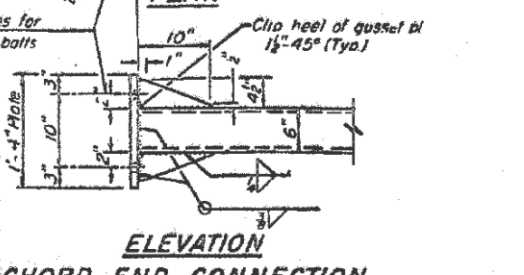
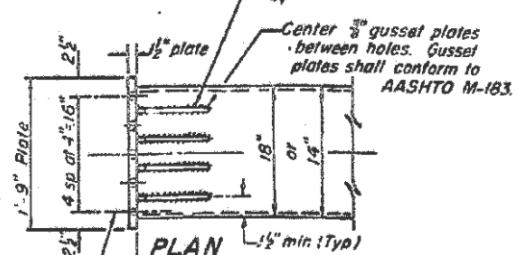
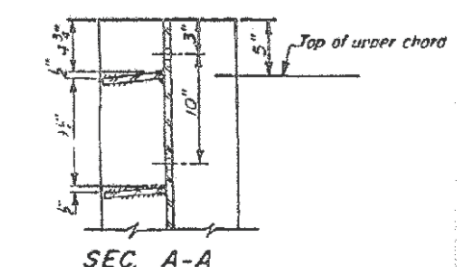
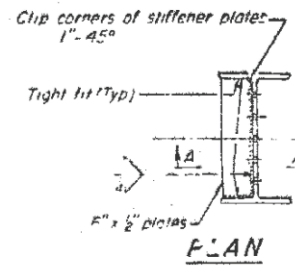
SCALE: N/A SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2011-073-T	COOK	44	27
CONTRACT NO.			60P93	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

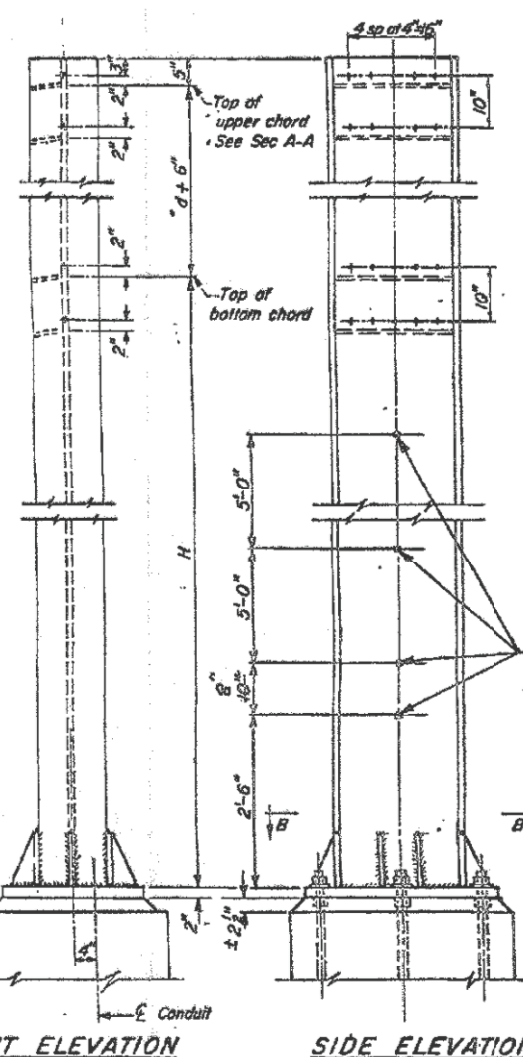
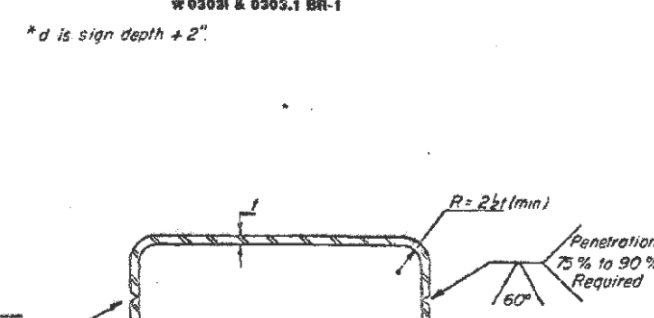
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	332	SHEET NO.	144	TOTAL SHEETS	76
DATE PLOTTED	5/17/2012 14:25:53 PM	FILE NAME	66100196.11-081-04.dgn	PLOT DRIVER	pdfcut
PEN TABLE: STRUCT 22x34.tbl					

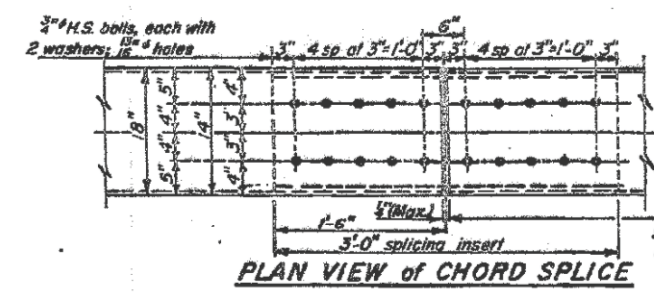
SHEET NO 2
SHEETS 6



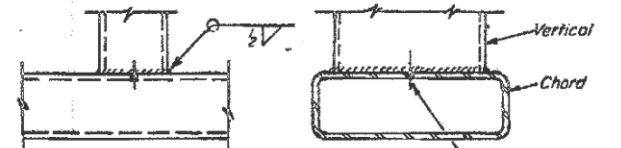
Span	Camber at Centerline	Chord	Vertical	Post	C-C Chords
0 to 70'	4"	TS14 x 6 x 3/8	TS10 x 6 x 3/8	W24 x 104	"d + 6"
71 to 80'	4"	TS14 x 6 x 3/8	TS10 x 6 x 3/8	W24 x 104	"d + 6"
81 to 90'	6"	TS18 x 6 x 3/8	TS14 x 6 x 3/8	W24 x 104	"d + 6"
91 to 100'	6"	TS18 x 6 x 3/8	TS14 x 6 x 3/8	W24 x 104	"d + 6"
101 to 110'	6"	TS18 x 6 x 3/8	TS14 x 6 x 3/8	W24 x 104	"d + 6"
111 to 124'	6"	TS18 x 6 x 3/8	TS14 x 6 x 3/8	W24 x 104	"d + 6"



POST
W24 x 104

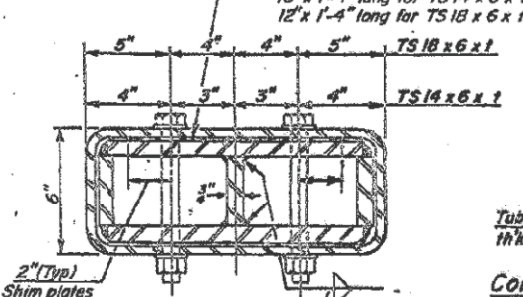


PLAN VIEW OF CHORD SPLICE

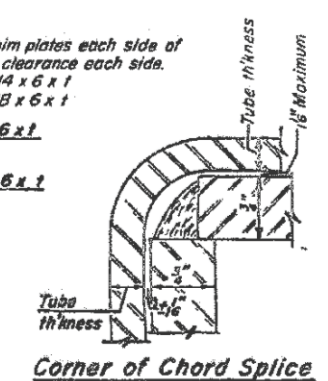


TYPICAL CONNECTION
Chord to Vertical

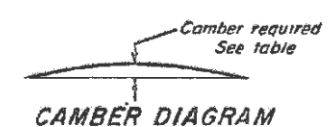
See also, Sheet 05-S-1 SPECIAL



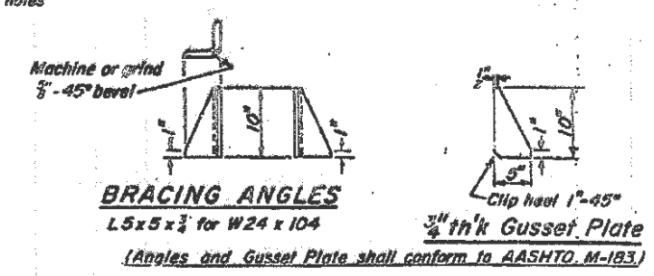
SECTION THRU SPLICE



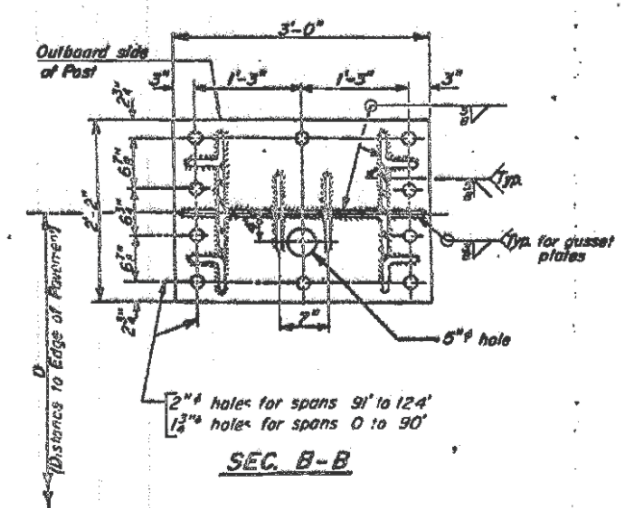
Corner of Chord Splice



CAMBER DIAGRAM



BRACING ANGLES
L5 x 5 x 3/8 for W24 x 104



SEC. B-B

Structure No	Station	Span	"d	Camber at E	Exterior Unit Lgth (L)	Interior Unit Lgth (L)	No. of Panels (N)	Panel Lgth (P)	Chord Size	Vertical Size	Post Size	L.H. Post Dim. H	R.H. Post Dim. H
TN-1	312+20	78'-0"	10'-2"	4"	23'-0"	30'-0"	12	6'-0"	TS 14X6X3/8	TS 10X6X3/8	W24X104	18'-6"	18'-6"
TS-1	277+45	78'-0"	10'-2"	4"	23'-0"	30'-0"	12	6'-0"	14X6X3/8	10X6X3/8	W24X104	18'-0"	18'-0"

NOTE: Contractor shall verify elevations & dimensions prior to fabrication. In addition, contractor shall verify location of existing conduits within existing foundations so that 5" hole will conform.

OVERHEAD SIGN STRUCTURES
POST and CHORD DETAILS

FOR INFORMATION ONLY

DESIGNED	19
CHECKED	ENGINEER OF BRIDGE DESIGN
DRAWN	ENGINEER OF BRIDGES AND STRUCTURES
CHECKED	DIRECTOR OF HIGHWAYS

OS-S-2 SPECIAL

9-20-85

COMPANY NAME: HRGreen.com
PROJECT CONTACT: Illinois Professional Design Firm #184-001322
DATE PLOTTED: 5/17/2012 14:25:53 PM
FILE NAME: 66100196.11-081-04.dgn
PLOT DRIVER: pdfcut
PEN TABLE: STRUCT 22x34.tbl



USER NAME = mhardin
DESIGNED - J. GUERRIERO
DRAWN - J. GUERRIERO
CHECKED - R. DAVIES
PLOT DATE = 5/17/2012

REVISED -
REVISED -
REVISED -
REVISED -

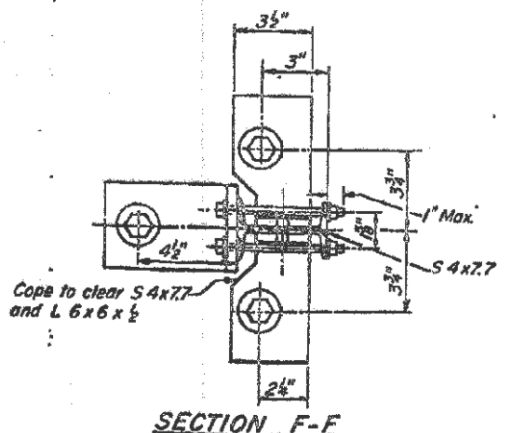
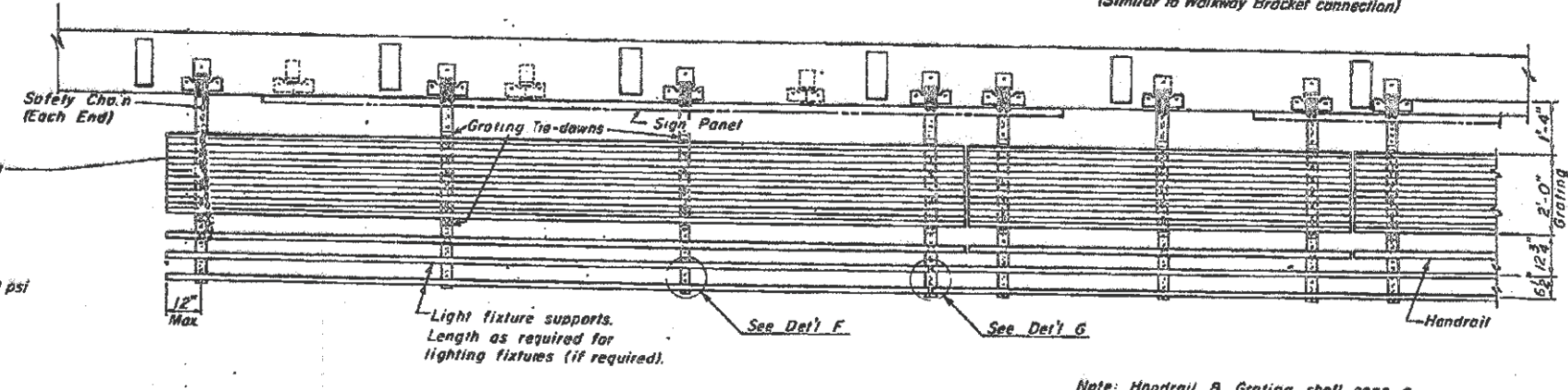
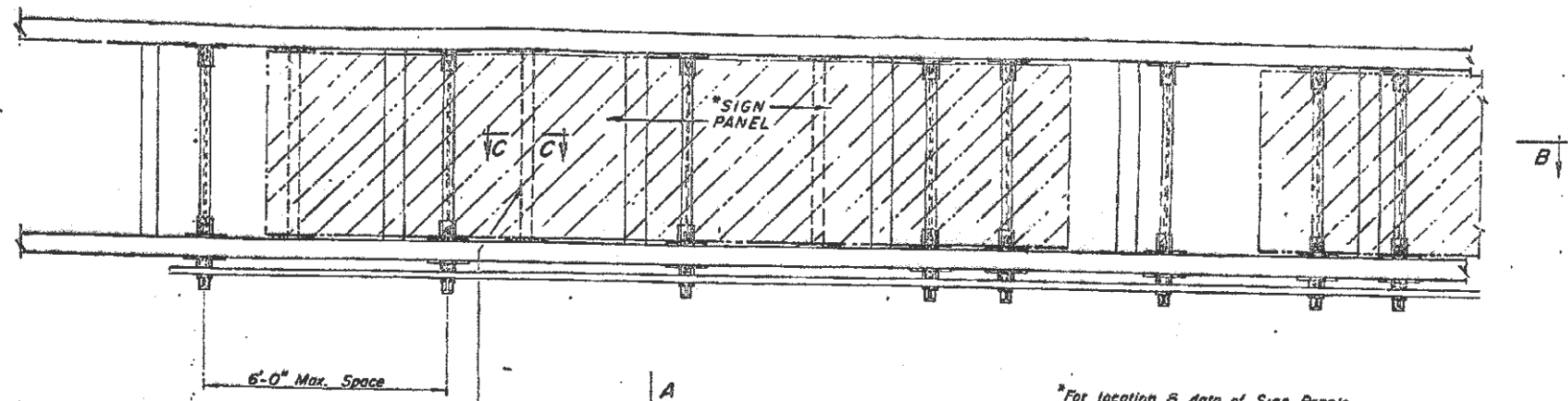
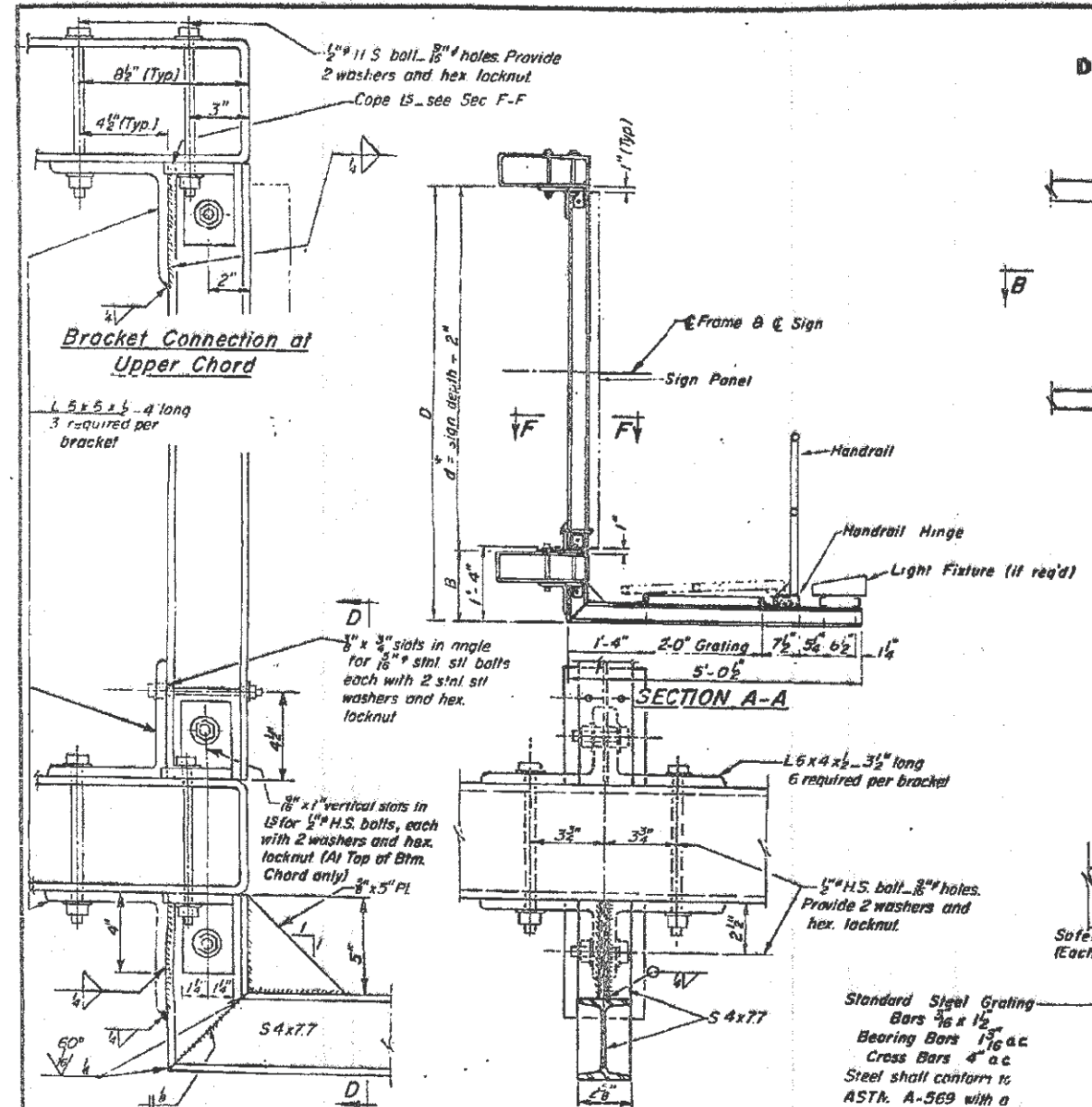
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
ILLINOIS ROUTE 394
SCALE: N/A SHEET NO. 2 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2011-073-T	COOK	44	28
CONTRACT NO. 60P93			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	101+00	DATE	10/15/11	SHEET NO.	3
PROJECT	332	DESIGNER	COOK	TOTAL SHEETS	144
DISTRICT	144	DATE	7/7	SHEETS	6



Structure Number	Station	B	D	W
TN-1	313+20	1'-3"	11'-6"	10'-2"
TB-1	277+45	1'-3"	11'-5"	10'-2"

*d = sign depth + 2"

OVERHEAD SIGN STRUCTURES
STEEL WALKWAY DETAILS

FOR INFORMATION ONLY

DISTRICT I STANDARDS 12-11-85

DESIGNED: _____
 CHECKED: _____
 DRAWN BY: V. Beci
 CHECKED: _____

DATE: _____
 FILE NAME: _____
 PLOT DRIVER: pafact
 PLOT TABLE: Struct_22x34.tbl

5/17/2012 14:00:23 PM
 86100196.11-081-05.dgn

05-S-3-SPECIAL

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: Illinois Professional Design Firm #194-001322
 DATE PLOTTED: 5/17/2012 14:00:23 PM
 FILE NAME: 86100196.11-081-05.dgn
 PLOT DRIVER: pafact
 PLOT TABLE: Struct_22x34.tbl

USER NAME	= mhardin	DESIGNED	- J. GUERRIERO	REVISED	-
		DRAWN	- J. GUERRIERO	REVISED	-
		CHECKED	- R. DAVIES	REVISED	-
		DATE	- 5/17/12	REVISED	-
PLOT SCALE	= N/A				
PLOT DATE	= 5/17/2012				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
ILLINOIS ROUTE 394

SCALE: N/A SHEET NO. 3 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2011-073-T	COOK	44	29
CONTRACT NO.			60P93	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

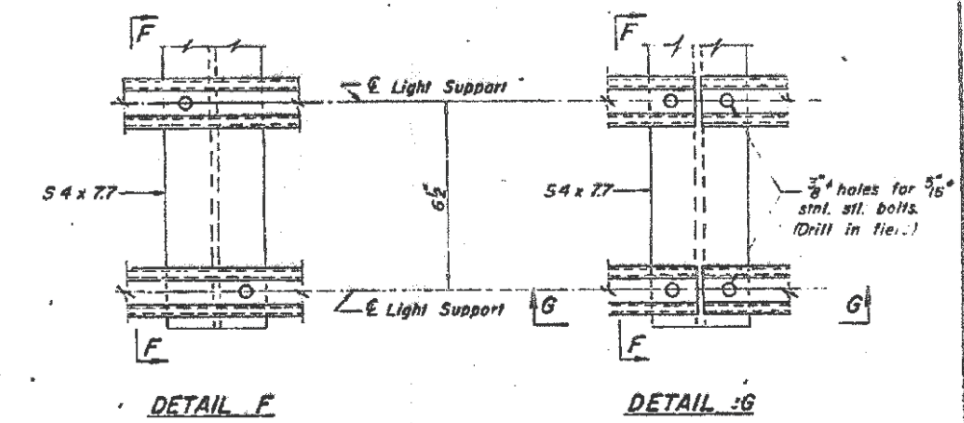
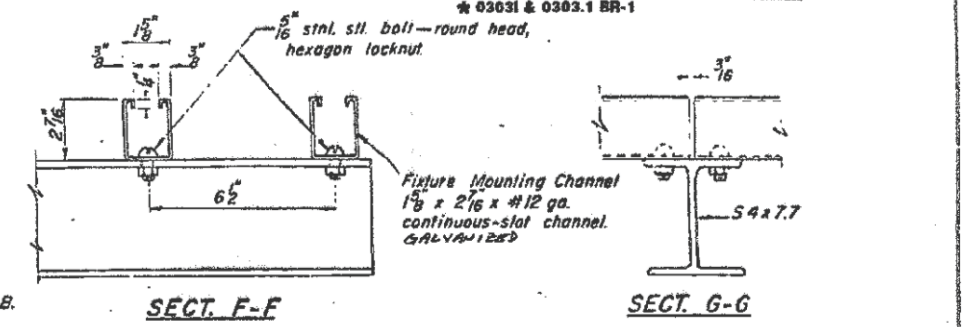
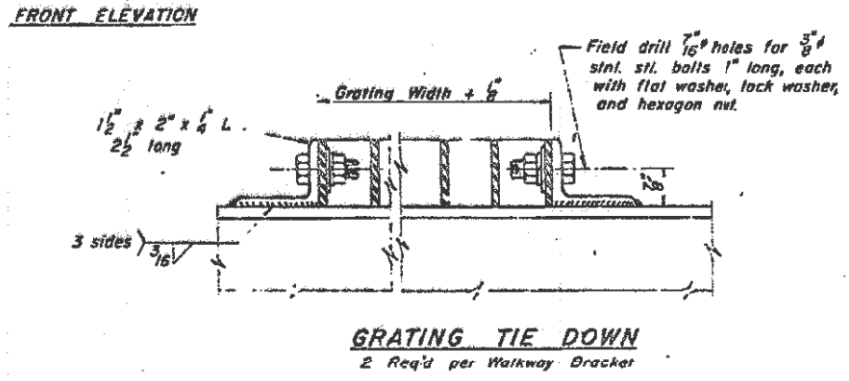
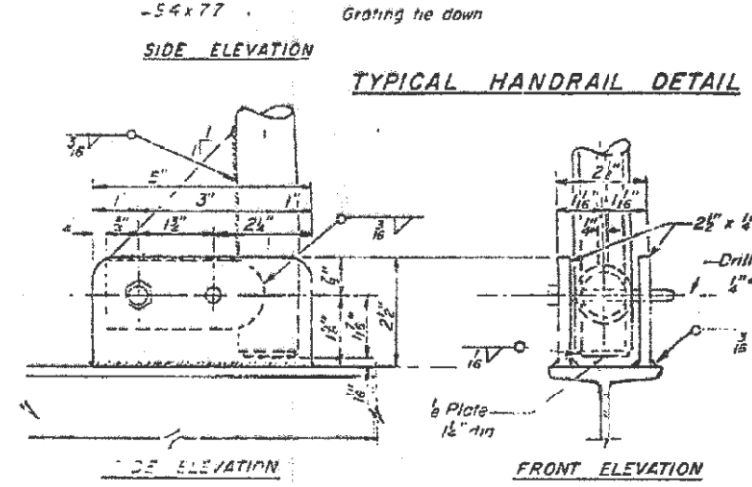
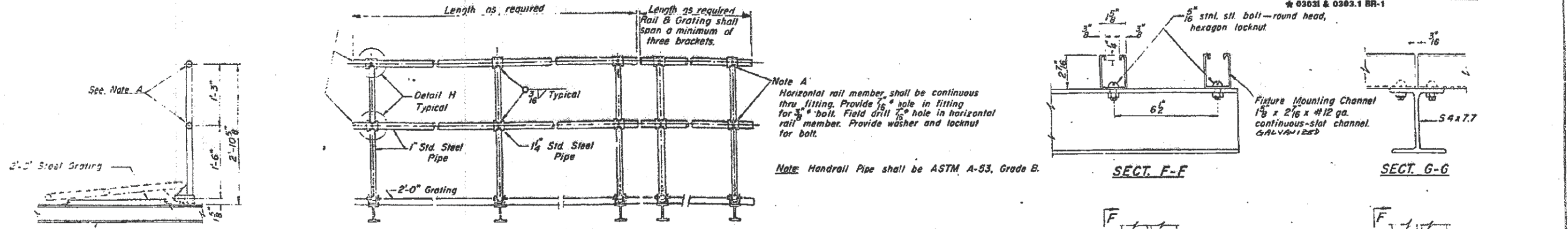
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1-4332	*	COOK	144	76

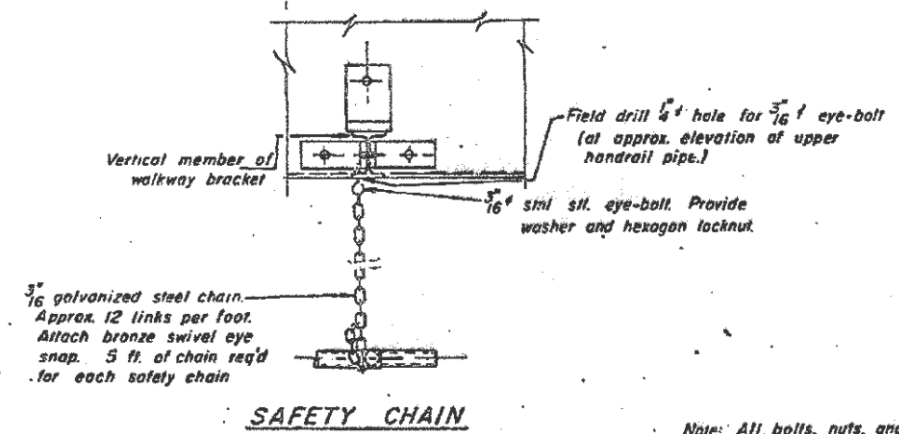
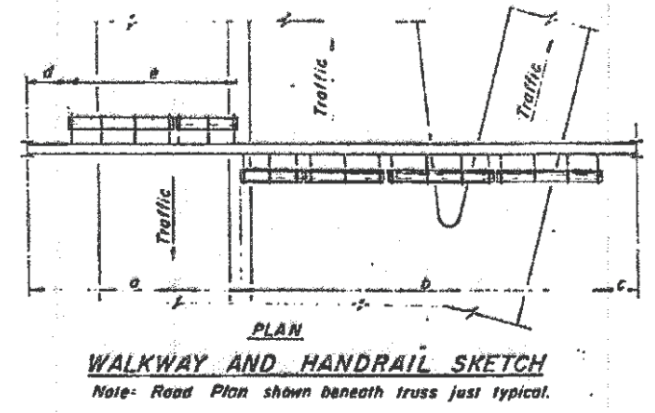
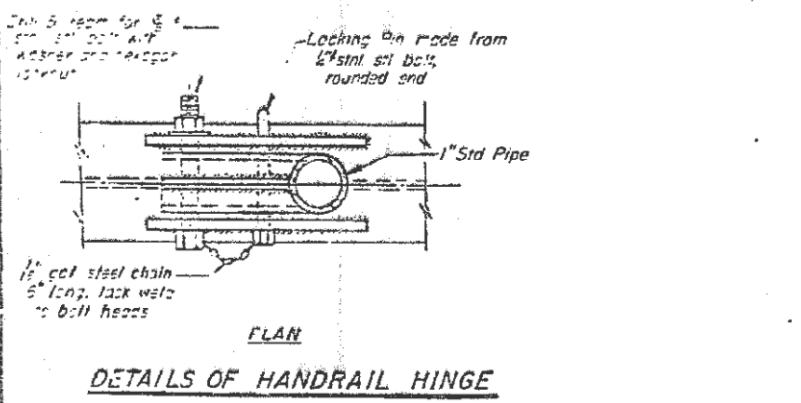
03031 & 0303.T BR-1

SHEET NO. 4
SHEETS 6

Contractor shall install standard force-fit end cap. (All rail ends)

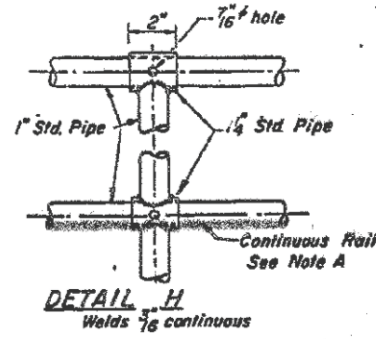


LIGHTING FIXTURE MOUNTS (IF REQ'D.)



Note: All bolts, nuts, and washers shall be stainless steel, conforming to ASTM A193, Class 1, Grade B8.

Structure Number	Station	a	b	c	d	e	Grating & Handrail Lengths
TM-1	313+20	18'-0"	48'-0"	12'-0"			48.0 LIN. FT.
TS-1	277+45	18'-0"	48'-0"	12'-0"			48.0 LIN. FT.



OVERHEAD SIGN STRUCTURES
STEEL WALKWAY DETAILS

FOR INFORMATION ONLY

COMPANY NAME: HRGreen
PROJECT CONTACT: HRGreen
DATE PLOTTED: 5/17/2012 14:48:11 PM
FILE NAME: 86100196.11-081-06.dgn
PLOT DRIVER: pdcfath
PLOT TABLE: Struct 22x34.tbl



DESIGNED: J. GUERRIERO
DRAWN: J. GUERRIERO
CHECKED: R. DAVIES
DATE: 5/17/12

EXAMINED: ENGINEER OF BRIDGE DESIGN
APPROVED: DIRECTOR OF BRIDGES AND STRUCTURES
DIRECTOR OF HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

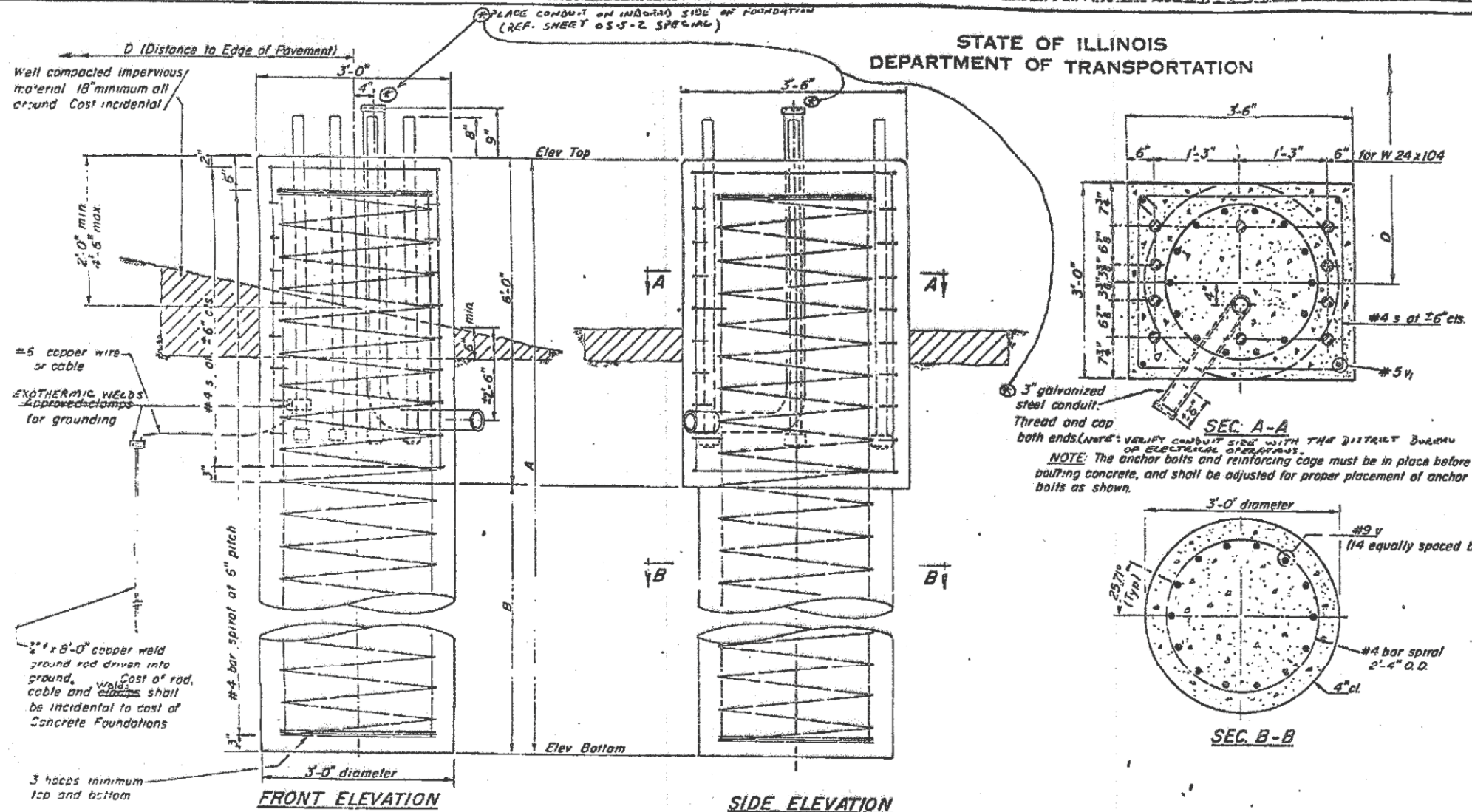
EXISTING PLANS
ILLINOIS ROUTE 394

SCALE: N/A
SHEET NO. 4 OF 6 SHEETS
STA. TO STA.

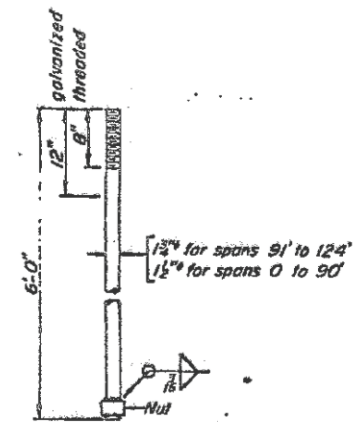
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2011-073-T	COOK	44	30
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 60P93		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5
332	*	COOK	144	79	SHEETS 8
* 03031 & 0303.1 BR-1					



NOTES:
The foundation details shown are for Average Cohesive Soil Conditions (stiff clays, sandy clays) and with minimum $Q_u = 1.0$ Tons/Sq Ft. Q_u being the average value of hand penetrometer readings at various depths of the shaft as determined by the Engineer at time of drilling operations or previous soil investigation.
REINFORCING STEEL SHALL BE INTERCONNECTED TO THE ANCHOR BOLTS VIA TIE WRAPPING OR OTHER SUITABLE MEANS AS APPROVED BY THE DISTRICT BUREAU OF ELECTRICAL OPERATIONS.

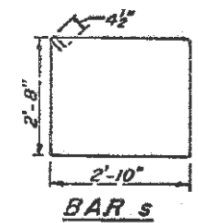


ANCHOR BOLT DETAILS
(ASTM A-576 $F_y = 55,000$ psi.)
Galvanize upper 12" in accordance with AASHTO M 232.
Provide 3 nuts and 1 washer for each anchor bolt.

BAR LIST - EACH FOUNDATION

Bar	No	Size	Len	Shape
s	12	#4	11'-9"	□
v	14	#9	8-(5'-7")	—
w	4	#5	5'-3"	—

#4 bar spirals - see Front Elevation



DEPTH TABLE

Span	B (min.)
70'	15'
80'	15'
90'	16'
100'	17'
110'	18'
124'	20'

Structure No.	Station	B	Anchor Bolt Size	Left Foundation			Right Foundation			Class X Concrete
				Elev. Top	Elev. Btm.	A	Elev. Top	Elev. Btm.	A	
TS-1	318+20	18'	1 1/2" φ	655.00	633.00	21'	655.00	634.00	21'	12.62 CY
TS-1	277+45	18'	1 1/2" φ				638.00	617.00	21'	6.26 CY

NOTE: ELEVATIONS ARE ESTIMATES ONLY.

DRILLED SHAFT
FOUNDATION DETAILS

OVERHEAD SIGN STRUCTURES
FOUNDATION DETAILS
FOR INFORMATION ONLY

DESIGNED	EXAMINED
CHECKED	PASSED
DRAWN	APPROVED
CHECKED	

OS-S-5-SPECIAL

COMPANY NAME: HRGreen
PROJECT CONTACT: HRGreen
DATE PLOTTED: 5/17/2012 14:48:22 PM
FILE NAME: 86100196.11-081-07.dgn
PLOT DRIVER: default
PEN TABLE: Struct 22x34.tbl



USER NAME = mhardin	DESIGNED - J. GUERRIERO	REVISED -
PLOT SCALE = N/A	DRAWN - J. GUERRIERO	REVISED -
PLOT DATE = 5/17/2012	CHECKED - R. DAVIES	REVISED -
	DATE - 5/17/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: N/A	SHEET NO. 5 OF 6 SHEETS	STA. TO STA.
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F.A. RTE. 332	SECTION 2011-073-T	COUNTY COOK	TOTAL SHEETS 44	SHEET NO. 31
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P93	

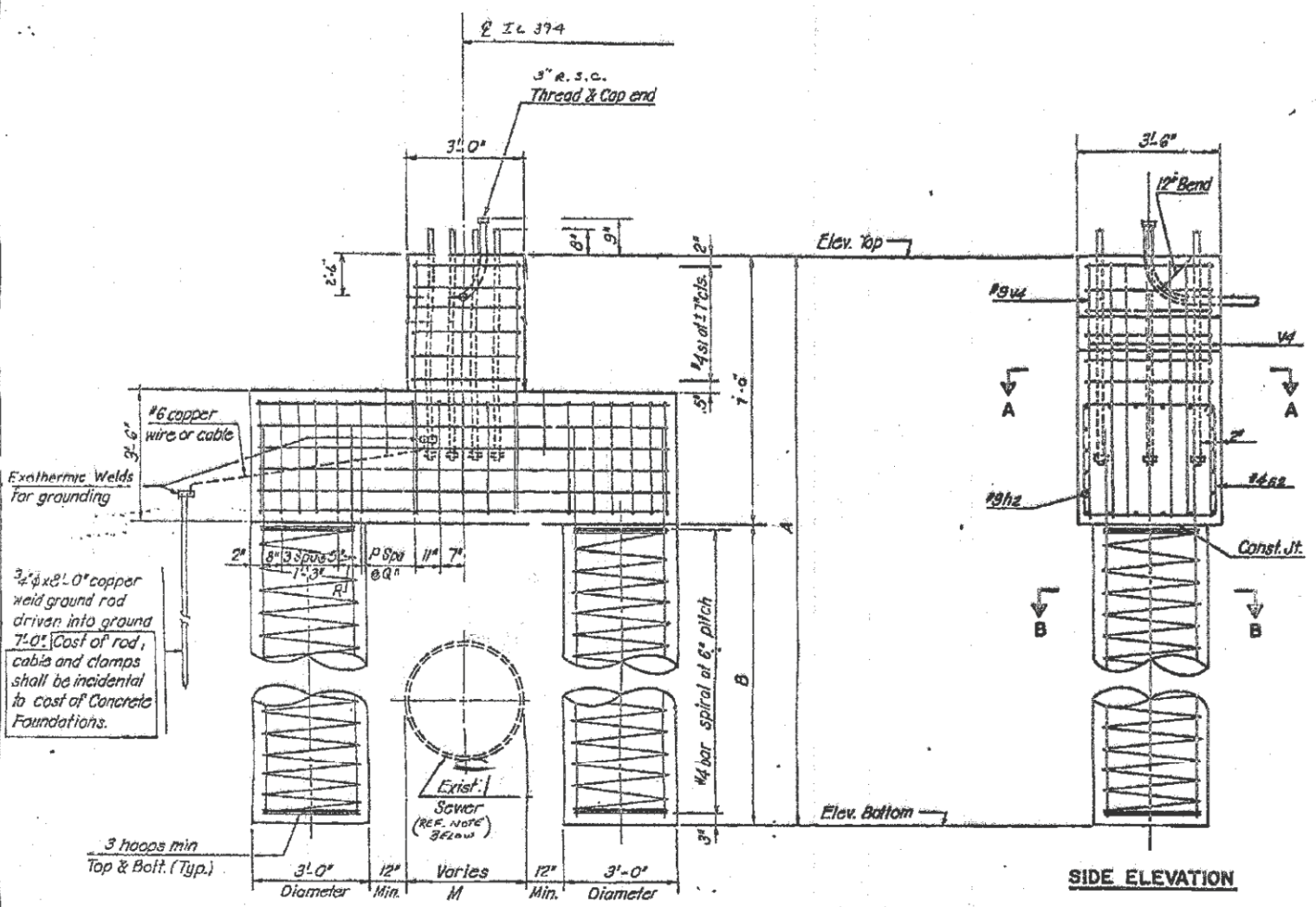
DATE	3/17/12	BY	JG
SCALE	N/A	PROJECT	2011-073-T
SHEET NO.	6	TOTAL SHEETS	6

* 03031 & 0303.1 BR-1

- NOTES:**
- The foundation details shown are for Average Cohesive Soil Conditions (stiff clays, sandy clays) and with minimum $Q_u = 1.0 \text{ Tons/Sq. Ft.}$ Q_u being the average value of hand penetrometer readings of various depths of the shaft as determined by the Engineer of time of drilling operations or previous soil investigation.
 - Reinforcing Steel shall be interconnected to the Anchor Bolts via Tie wrapping or other suitable means as approved by the District Bureau of Electrical Operations.
 - For weaker clay soils or granular soil conditions, dimension "B" shall be increased, see Standard Specifications for Traffic Control Items Section T 312.

Station	L	M	P	Q	R	No. of sz Stirrups
277+45	13'-0" ±		*	*	9"	23

* 2 @ 5" LEFT
* 5 @ 7" & 1 @ 6" RIGHT



3/4 x 8'-0" copper weld ground rod driven into ground 7'-0" (Cost of rod, cable and clamps shall be incidental to cost of Concrete Foundations.)

Exothermic Welds for grounding

FRONT ELEVATION

SIDE ELEVATION

NOTE: EXISTING 48" SEWER IS APPROX. 1'-3" OFF CENTER FROM THE ROADWAY TO THE WEST. CONTRACTOR SHALL VERIFY LOCATION TO ENSURE 12 INCH MINIMUM CLEARANCES TO DRILLED SHAFTS.

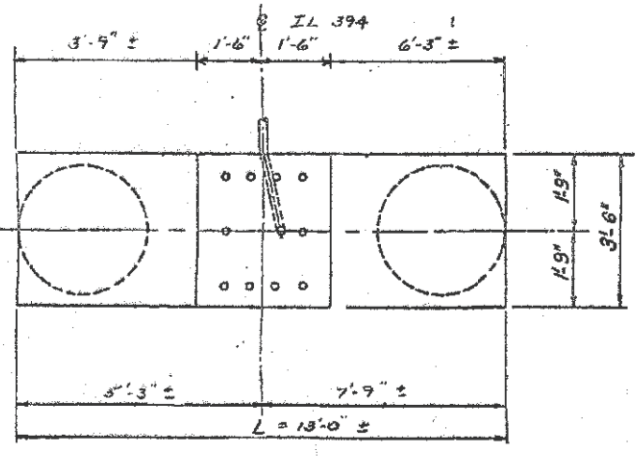
BAR LIST-EACH FOUNDATION

Bar	No.	Size	Length	Shape
h2	20	#9	L-4"	---
s1	6	#4	12'-4"	□
s2	*	#4	13'-5"	□
v3	28	#9	B+3'-0"	---
v4	12	#9	6'-6"	---

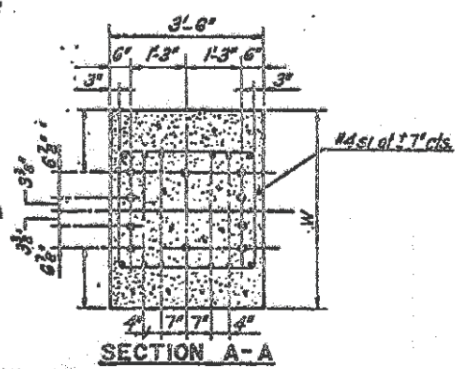
* 4 bar spiral - See Front Elevation
* See Table above for No. of sz Stirrups

DEPTH TABLE

Span	B (min)
70'	15'
80'	15'
90'	16'
100'	17'
110'	18'
124'	20'

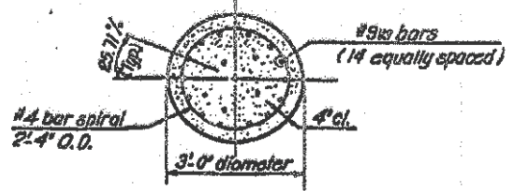


TOP PLAN

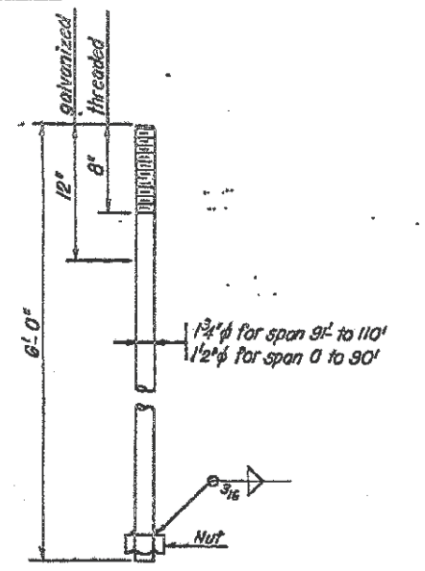


SECTION A-A

NOTE: The anchor bolts and reinforcing cage must be in place before pouring concrete, and shall be adjusted for proper placement of anchor bolts as shown.



SECTION B-B



ANCHOR BOLT DETAILS
(ASTM A-576 - Fy = 55,000 P.S.I.)
Galvanize upper 12" in accordance with AASHTO M232

DRILLED SHAFT FOUNDATION DETAILS

Structure No.	Station	B	Anchor Bolt Size	Foundation			Class X Concrete
				Elev. Top	Elev. Btm.	A	
TS-1	277+45	15'	1 1/2" φ	637.00	615.00	22'-0"	15.11

* ELEVATIONS ARE ESTIMATES ONLY - CONTRACTOR SHALL VERIFY.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE

OVERHEAD SIGN STRUCTURES MEDIAN SUPPORT FOUNDATION DETAILS TYPE II

SEC.

DESIGNED BY: [Blank]
CHECKED BY: [Blank]
DRAWN BY: [Blank]

SCALE: Not to Scale

FOR INFORMATION ONLY

COMPANY NAME: HRGreen
PROJECT CONTACT: HRGreen
DATE PLOTTED: 5/17/2012 1:46:31 PM
FILE NAME: 86100196.11-081-08.dgn
PLOT DRIVER: pdefact
PEN TABLE: Struct 22x34.tbl

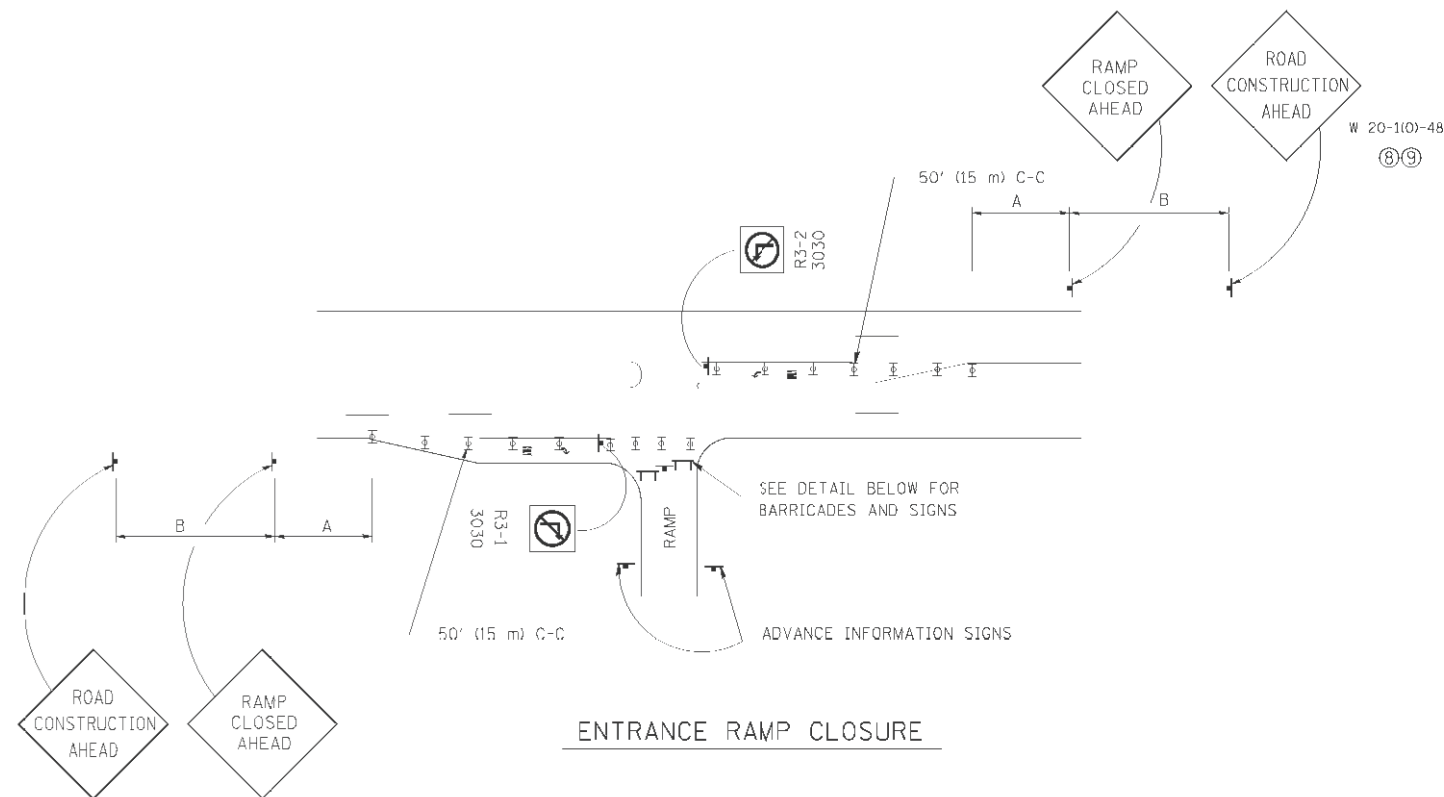


USER NAME = mhardin	DESIGNED - J. GUERRIERO	REVISED -
PLOT SCALE = N/A	DRAWN - J. GUERRIERO	REVISED -
PLOT DATE = 5/17/2012	CHECKED - R. DAVIES	REVISED -
	DATE - 5/17/12	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING PLANS ILLINOIS ROUTE 394	F.A. RTE. 332	SECTION 2011-073-T	COUNTY COOK	TOTAL SHEETS 44	SHEET NO. 32
SCALE: N/A	SHEET NO. 6 OF 6 SHEETS	STA.	TO STA.	CONTRACT NO. 60P93	

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



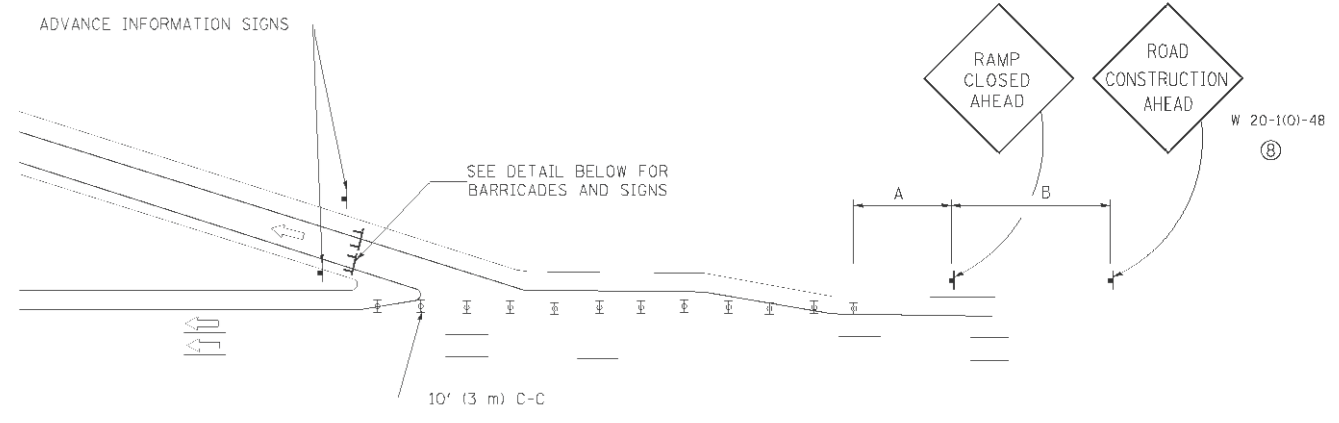
ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY <24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL ≥45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	150' (45 m)	150' (45 m)

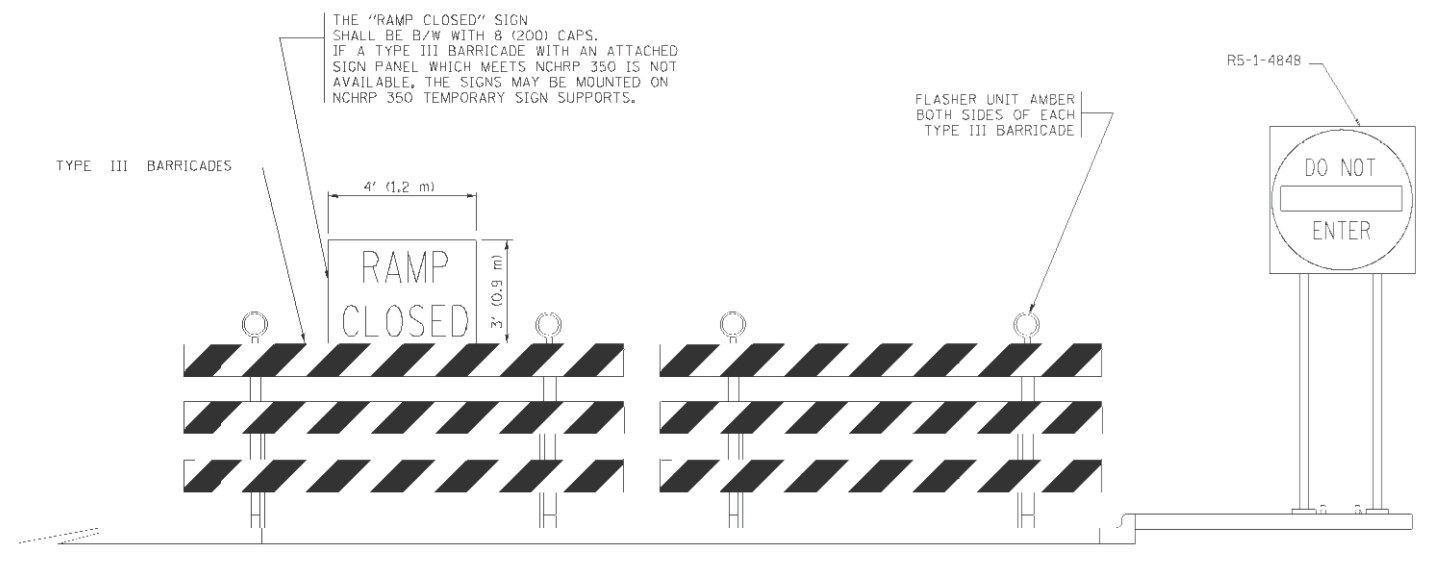
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.

W 20-100-48 (8)9

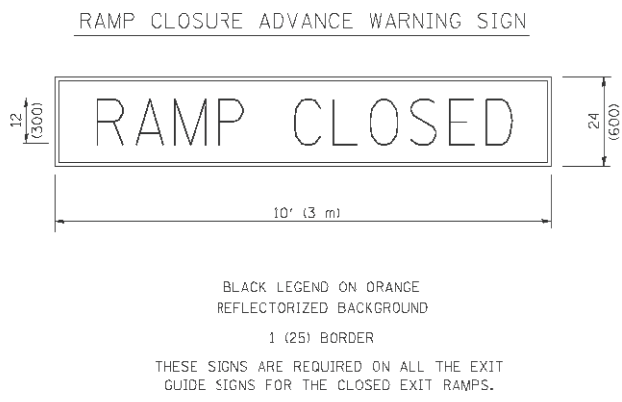


EXIT RAMP CLOSURE

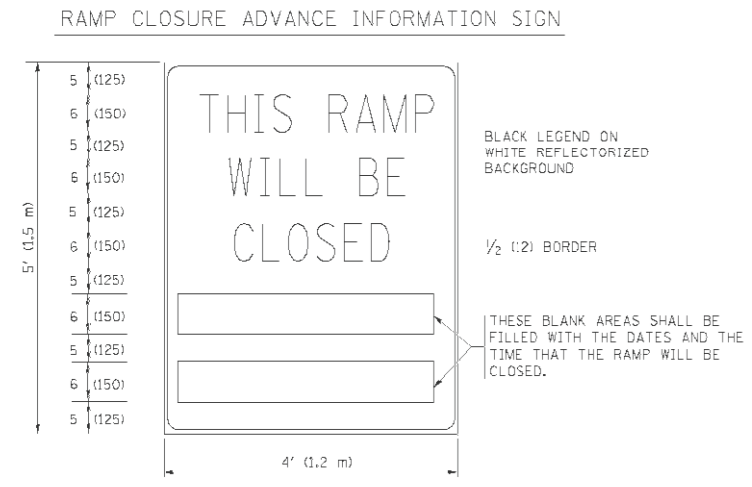
- SYMBOLS**
- ▬ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
 - ▬ TYPE III BARRICADE WITH FLASHING LIGHT



DETAIL FOR REQUIRED BARRICADES & SIGNS



BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND
1 (25) BORDER
THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMPS.



BLACK LEGEND ON WHITE REFLECTORIZED BACKGROUND
1/2 (12) BORDER
THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY-FOUR (24) HOURS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED ON CLOSURES LESS THAN 24 HOURS IN DURATION.

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

COMPANY NAME: HRGreen
PROJECT CONTACT: HRGreen
DATE PLOTTED: 5/17/2012 1:48:40 PM
FILE NAME: 86100196.11-081-08a.dgn
PLOT DRIVER: pafact
PLOT TABLE: Struct 22x34.tbl



USER NAME: lrp24
PLOT SCALE: 50.0000 / 1
PLOT DATE: 11/3/2010

DESIGNED - DWS
DRAWN - DWS
CHECKED - JAF
DATE - 02-83

REVISED - DWS/JAF 12-02
REVISED - JAF 02-06
REVISED - SPB 01-07
REVISED - SPB 12-09

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

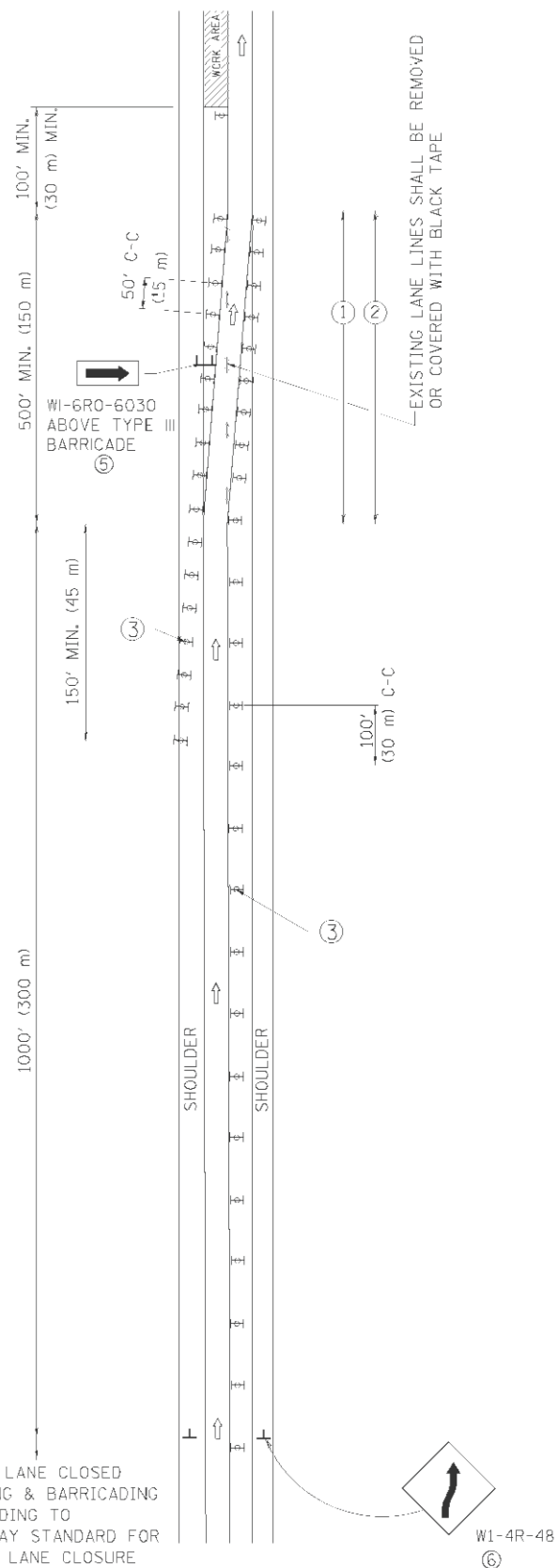
**FREEWAY ENTRANCE AND EXIT RAMP
CLOSURE DETAILS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2011-073-T	COOK	44	33
TC-08			CONTRACT NO.	60P93

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

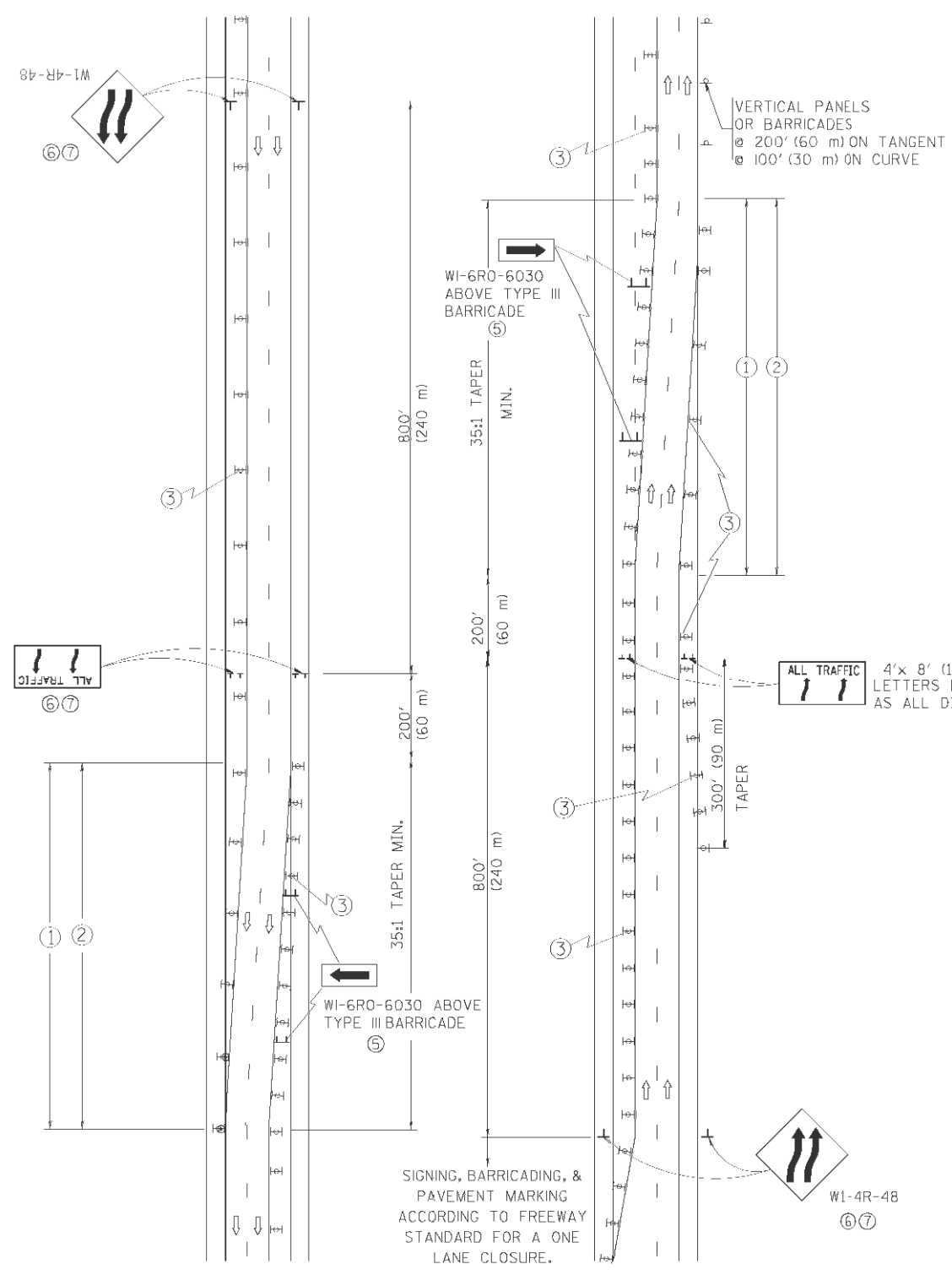
SINGLE LANE WEAVE



RIGHT LANE CLOSED
SIGNING & BARRICADING
ACCORDING TO
FREEWAY STANDARD FOR
A ONE LANE CLOSURE



MULTI-LANE WEAVE



VERTICAL PANELS
OR BARRICADES
200' (60 m) ON TANGENT
100' (30 m) ON CURVE

ALL TRAFFIC 4'x 8' (1.2 m x 2.4 m); 1 (25) BORDER; 10 (250) CAPITAL LETTERS BACKGROUND SHEETING SHALL BE THE SAME AS ALL DIAMOND SHAPED CONSTRUCTION SIGNS.

GENERAL NOTES

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 24 HOURS IN DURATION.
- ② 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 WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS. TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- W1-4R-48
- W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN

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PROJECT CONTACT: HRGreen
DATE PLOTTED: 5/17/2012 1:46:49 PM
FILE NAME: 86100196.11-081-08.dgn
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PEN TABLE: Struct 22x34.tbl



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DESIGNED - DWS
DRAWN -
CHECKED -
DATE - 02-87

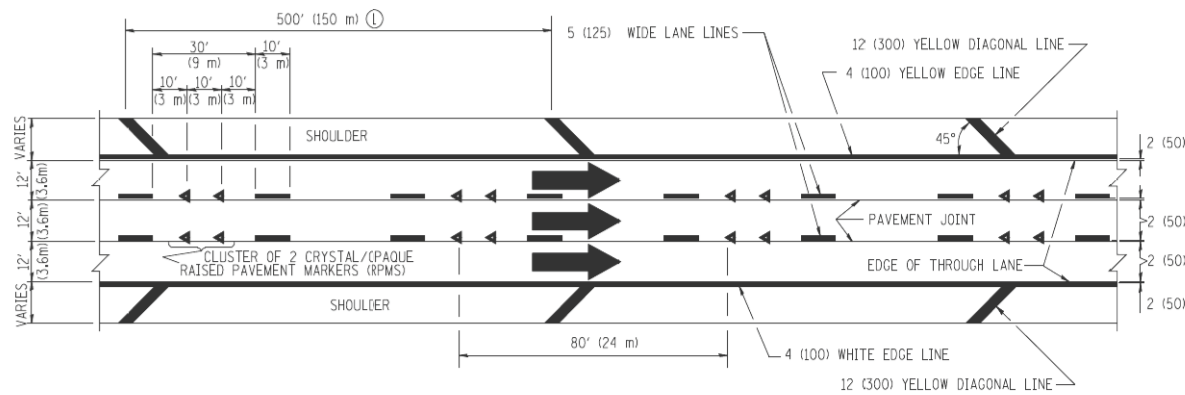
REVISOR: JAF 01-03
REVISOR: JAF 02-06
REVISOR: SPB 01-07
REVISOR: SPB 12-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR
FREEWAY SINGLE & MULTI-LANE WEAVE

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

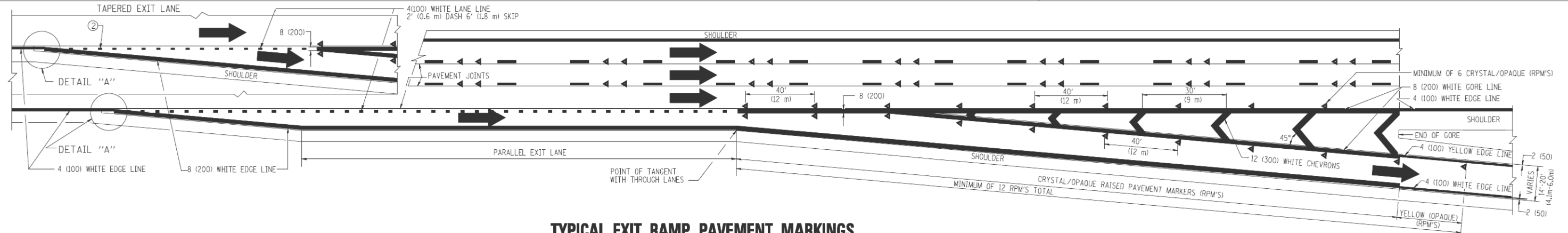
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2011-073-T	COOK	44	34
TC-09		CONTRACT NO.	60P93	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



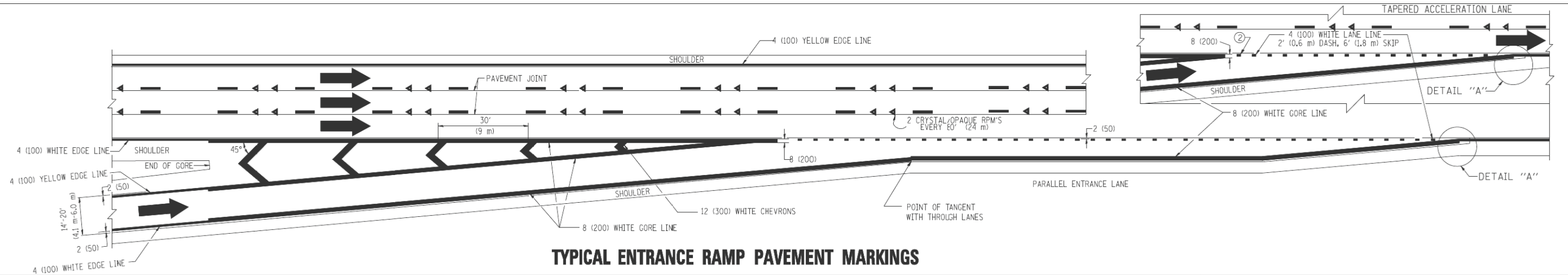
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

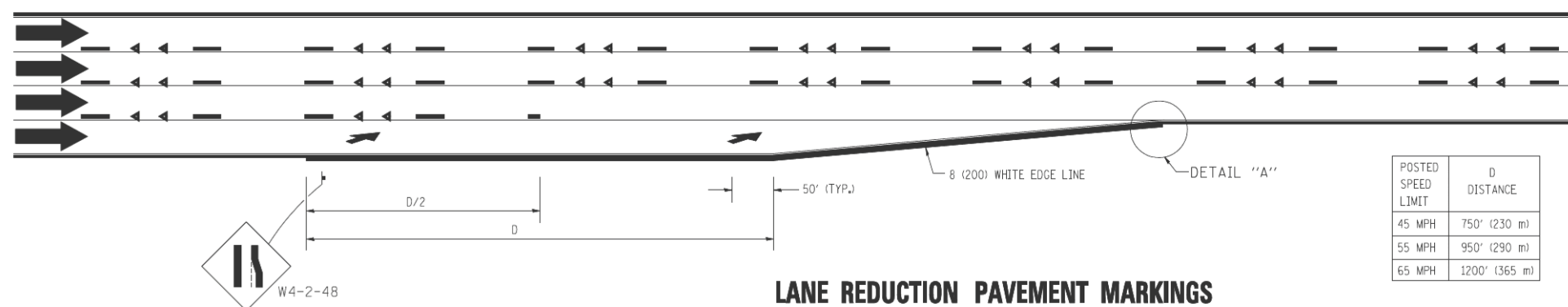
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE SHALL BE USED FOR ALL LANE LINES ON BITUMINOUS PAVEMENT.
3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS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



TYPICAL EXIT RAMP PAVEMENT MARKINGS

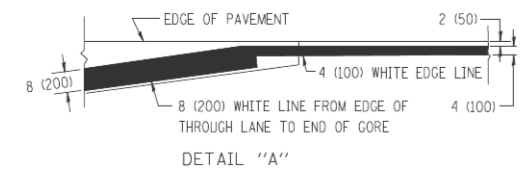


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



LANE REDUCTION PAVEMENT MARKINGS

POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)



NOTES:

- 1 THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
- 2 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

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 PROJECT CONTACT: HRGreen
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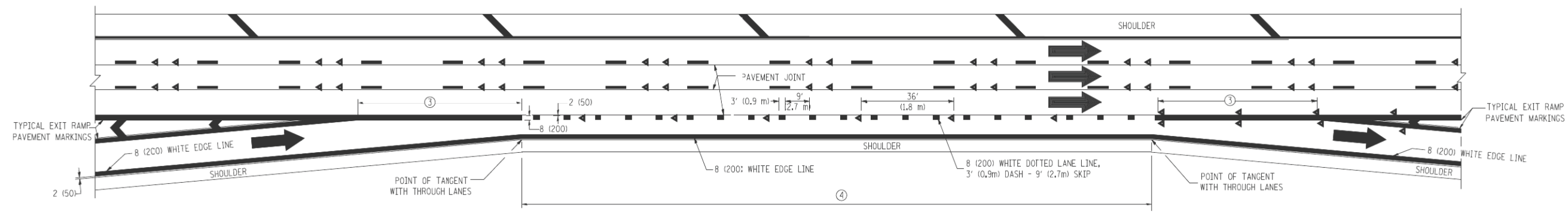


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PLOT DATE = 1/22/2010	CHECKED -	REVISED - S.P.B. 01-07
	DATE - 01-90	REVISED - S.P.B. 01-10

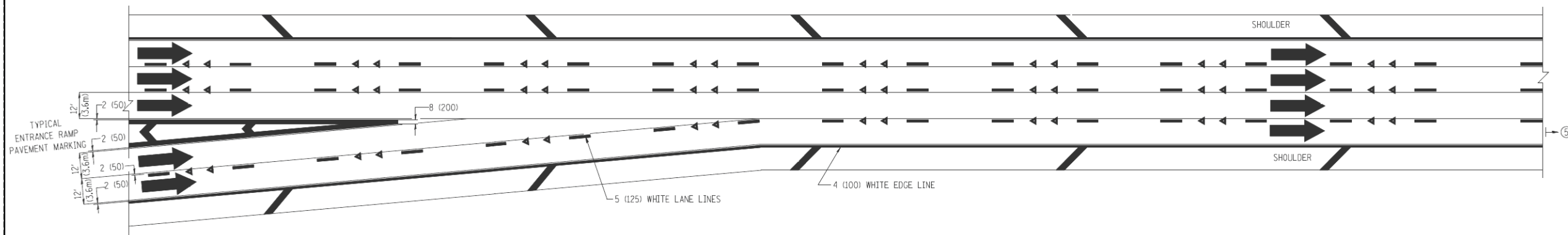
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS	
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STA.	TO STA.

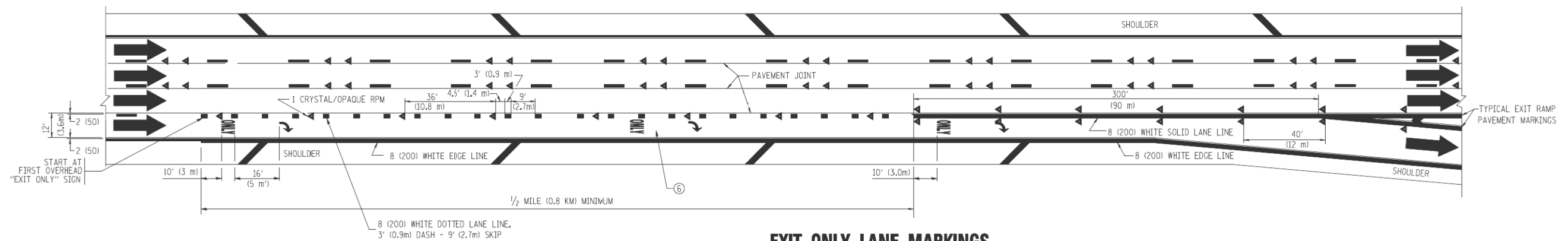
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-12		CONTRACT NO.	60P93	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



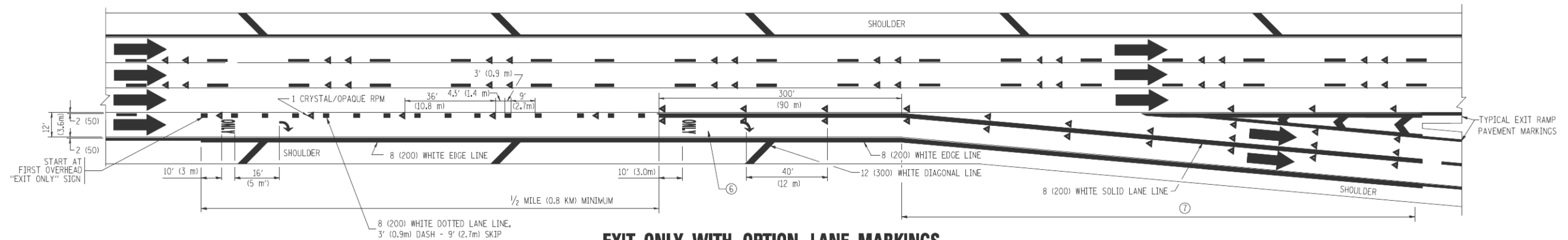
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

- NOTES**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
 - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen
 DATE PLOTTED: 5/17/2012 1:48:34 PM
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 PEN TABLE: Struct 22x34.tbl



USER NAME = luyaa	DESIGNED - D.W.S.	REVISED - D.W.S. 07-96
	DRAWN -	REVISED - J.A.F. 02-06
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - S.P.B. 01-07
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

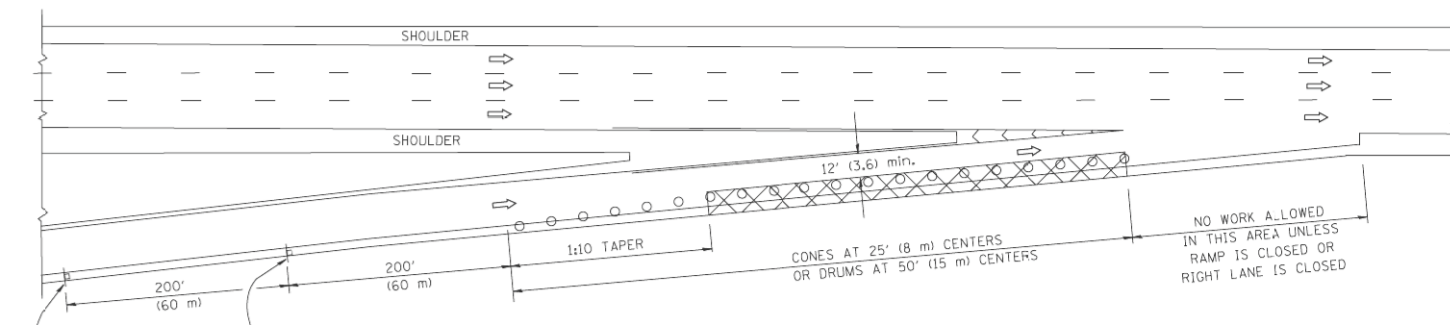
**MULTI-LANE FREEWAY
 PAVEMENT MARKING DETAILS**

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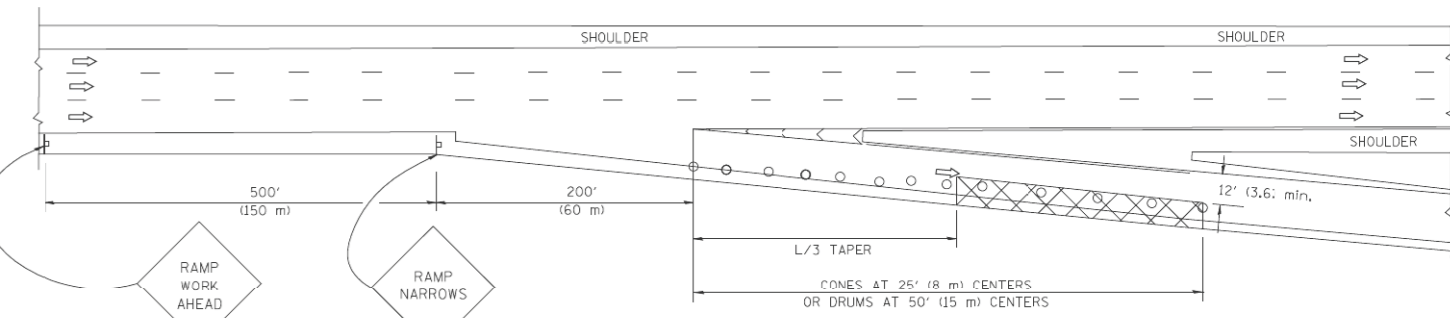
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-12		CONTRACT NO.	60P93	

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

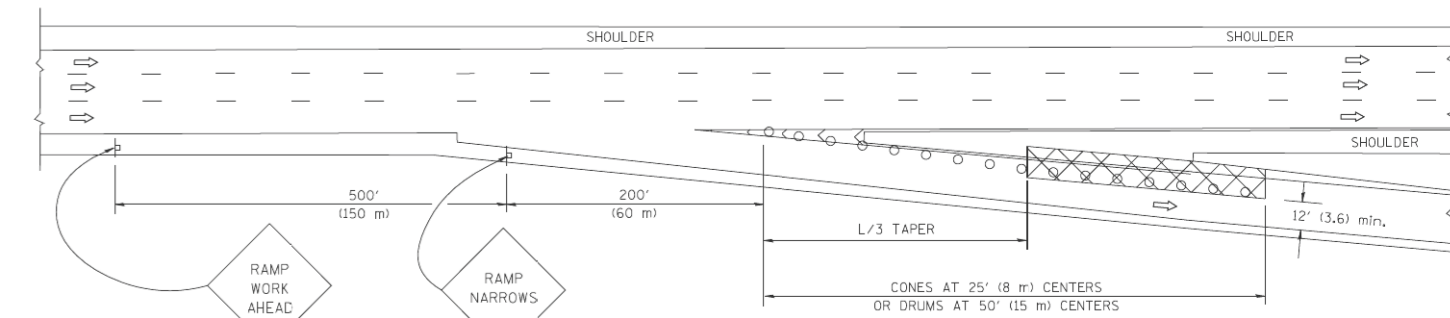
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

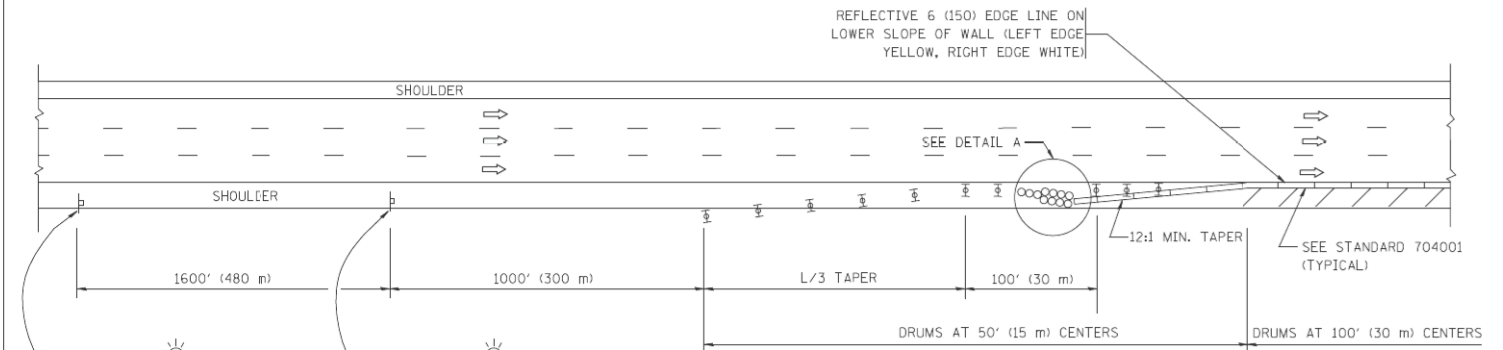
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

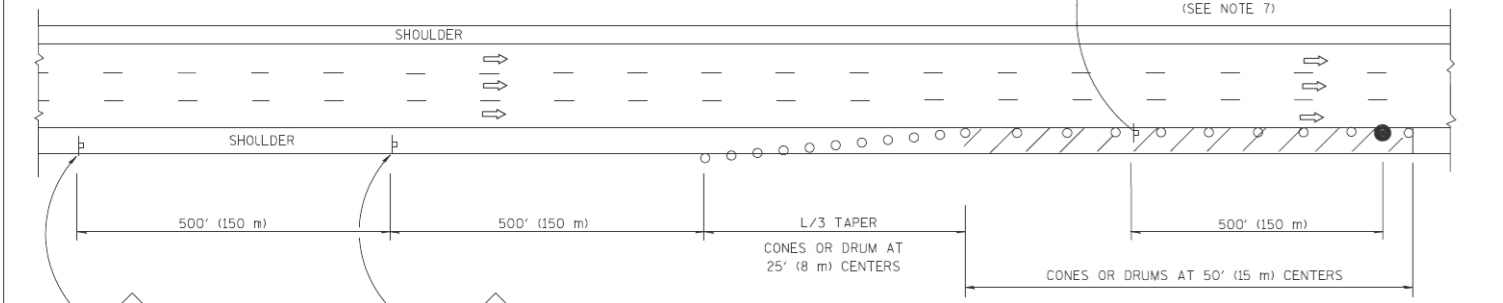
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
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

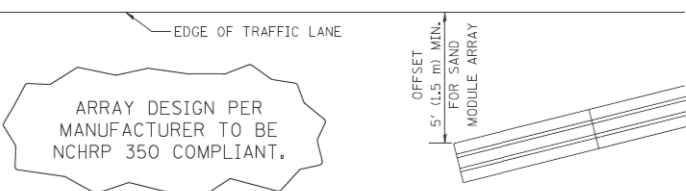


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

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)

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

COMPANY NAME: HRGreen
PROJECT CONTACT: HRGreen
DATE PLOTTED: 5/17/2012 15:50:09 PM
FILE NAME: 86100196.11-081-12.dgn
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PEN TABLE: Struct_22x34.tbl



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PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - S.P.B. 01-07
PLOT DATE = 1/26/2010	DATE - 11-96	REVISED - S.P.B. 12-09

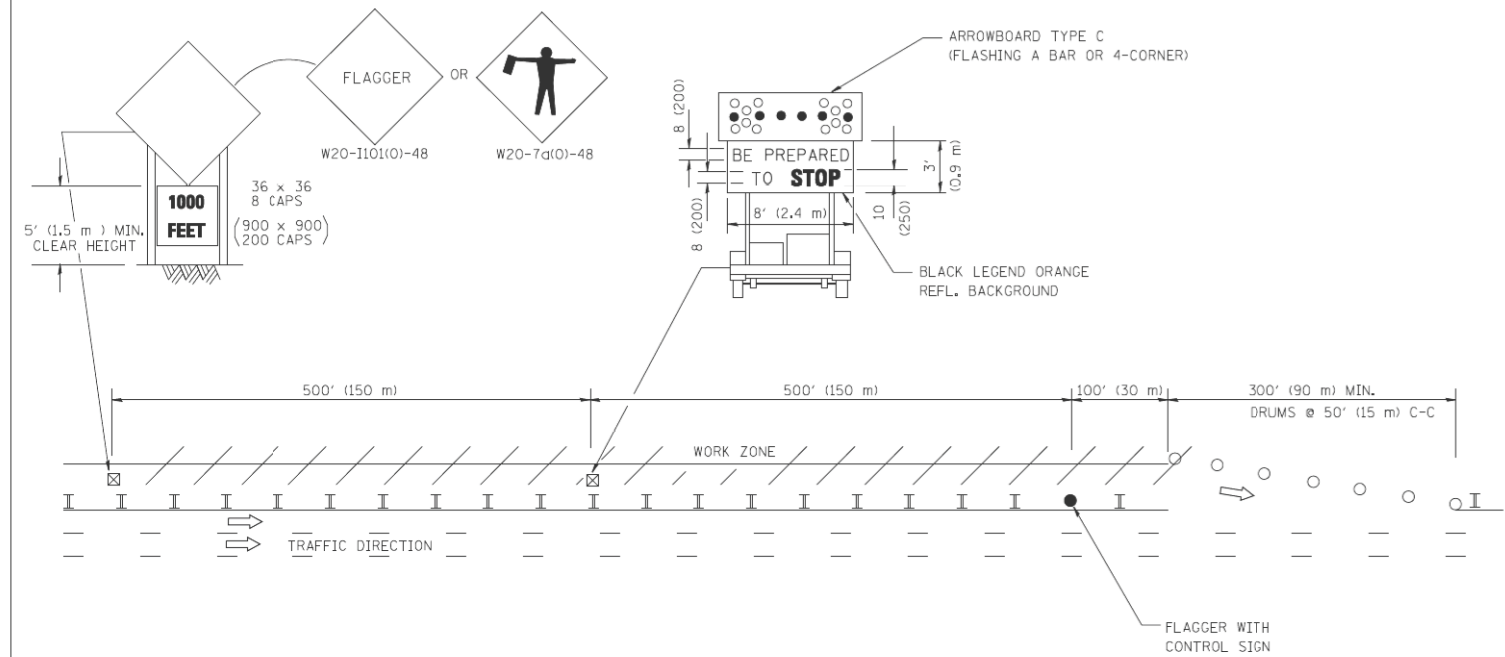
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY			
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

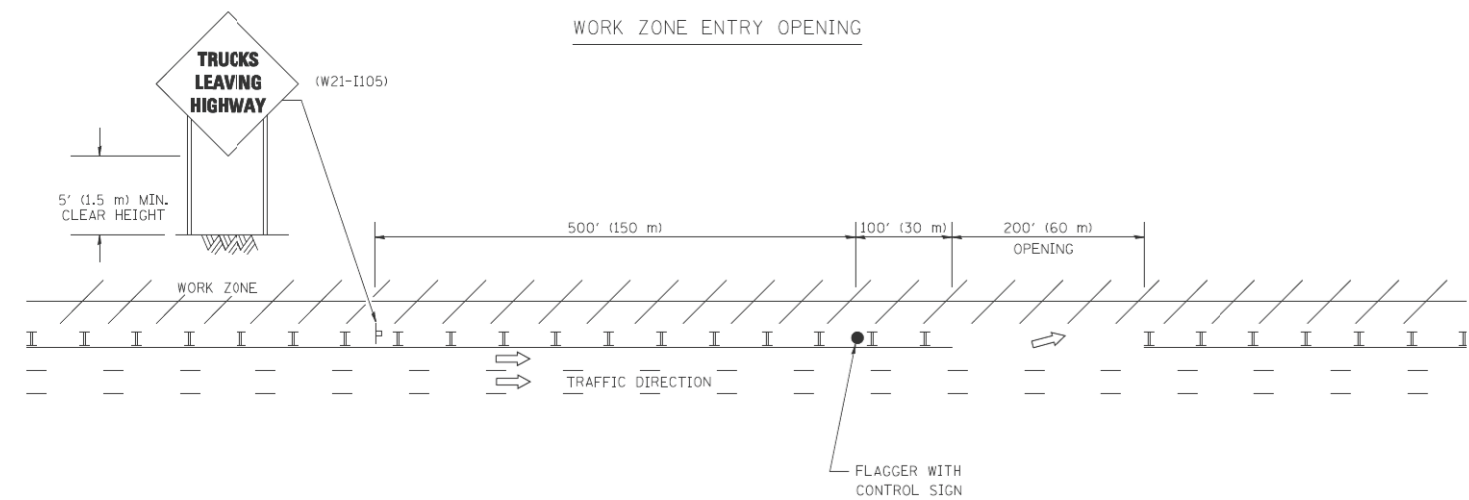
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2011-073-T	COOK	44	37
TC-17		CONTRACT NO.	60P93	
FED. ROAD DIST. NO. 1 ILLINOIS/FED. AID PROJECT				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. THE ARROWBOARD, THE FLAGGER AHEAD SIGN AND THE TRUCKS LEAVING HIGHWAY SIGN SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE EXIT OPENINGS SHOULD BE A MINIMUM OF ONE HALF MILE APART.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

COMPANY NAME: #COMPANY_NAMES
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PLOT DATE = 1/26/2010	DATE -	REVISED - S.P.B. 12-09

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SIGNING FOR FLAGGING OPERATIONS
 AT WORK ZONE OPENINGS

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

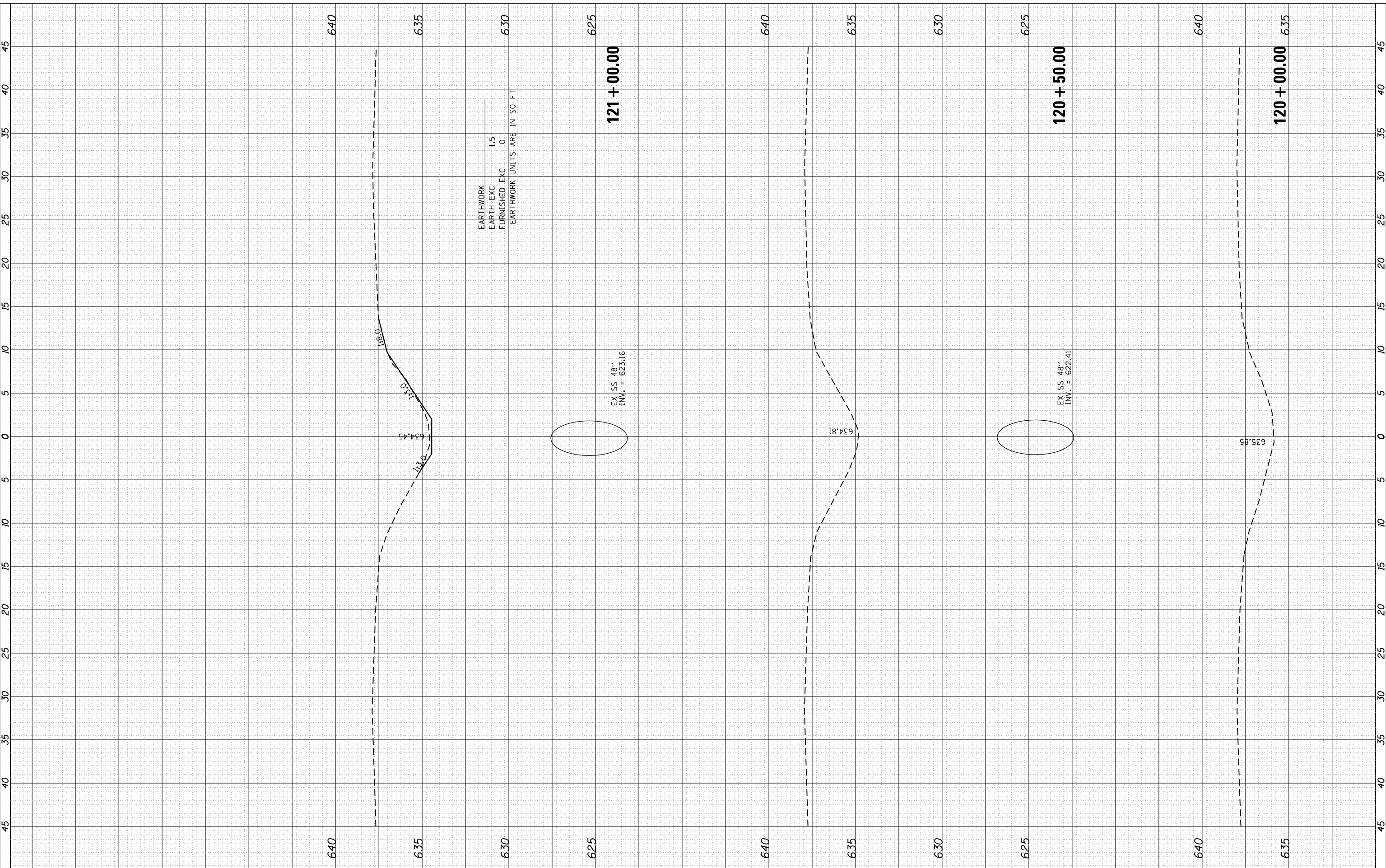
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2011-073-T	COOK	44	38
TC-18			CONTRACT NO.	60P93

FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT

FINIAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE
NOTE BOOK NO.			

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

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	DRAWN -	REVISED -
	CHECKED -	REVISED -
	DATE - 5/17/12	REVISED -

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PLOT DATE = 5/17/2012	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
ILLINOIS ROUTE 394**

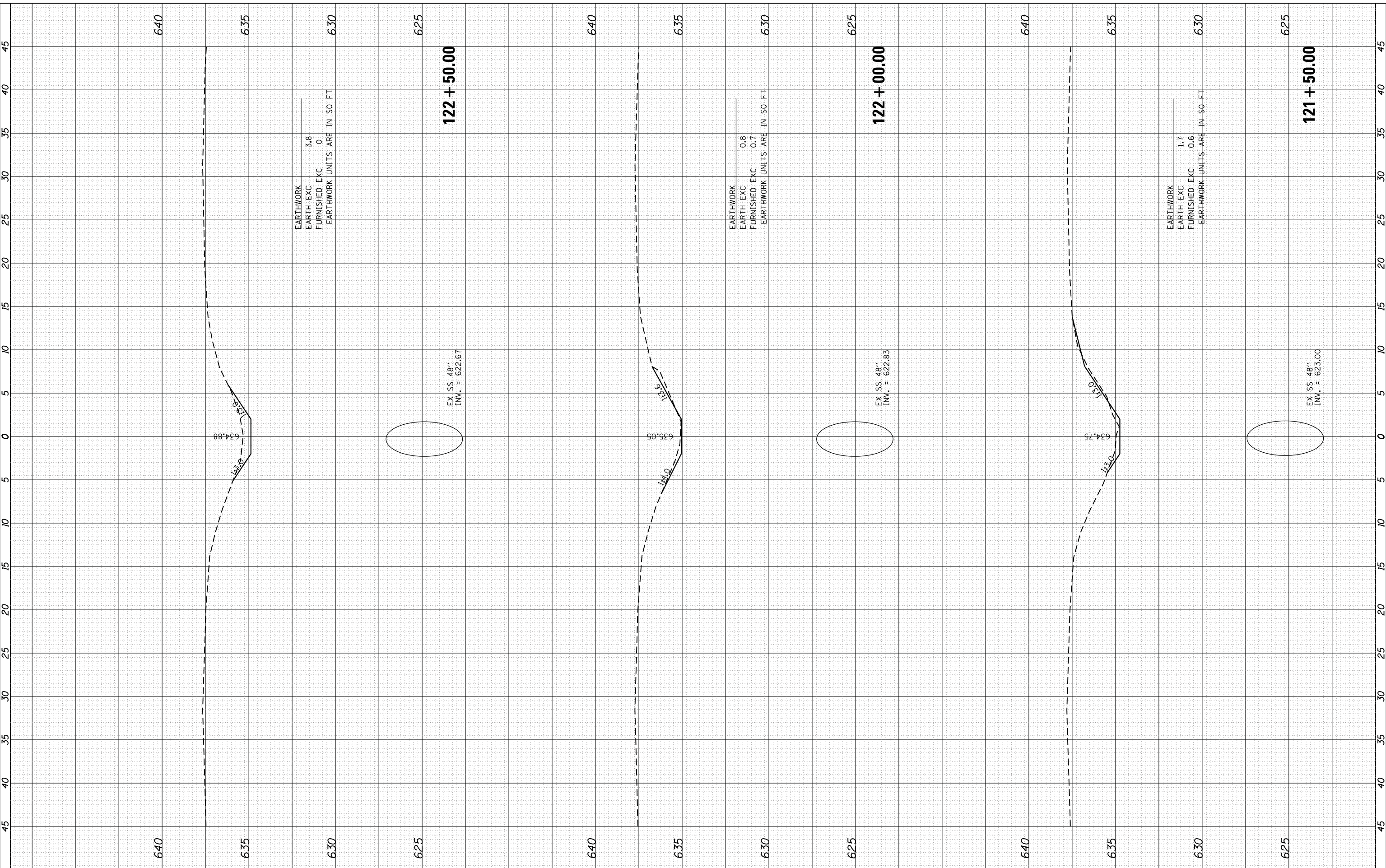
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F.A. RTE. 332	SECTION 2011-073-T	COUNTY COOK	TOTAL SHEETS 44	SHEET NO. 39
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P93	

FINL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

ORIGINAL SURVEY NO.	
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AREAS	
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 PEN TABLE: S:\Project_22\34.tbl



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EX SS 48"
 INV. = 622.67

EX SS 48"
 INV. = 622.83

EX SS 48"
 INV. = 623.00

122 + 50.00

122 + 00.00

121 + 50.00

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 Illinois Professional Design Firm
 #184-001322

USER NAME = mhardin	DESIGNED -	REVISED -
PLOT SCALE = 10H:5V	DRAWN -	REVISED -
PLOT DATE = 5/17/2012	CHECKED -	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 ILLINOIS ROUTE 394

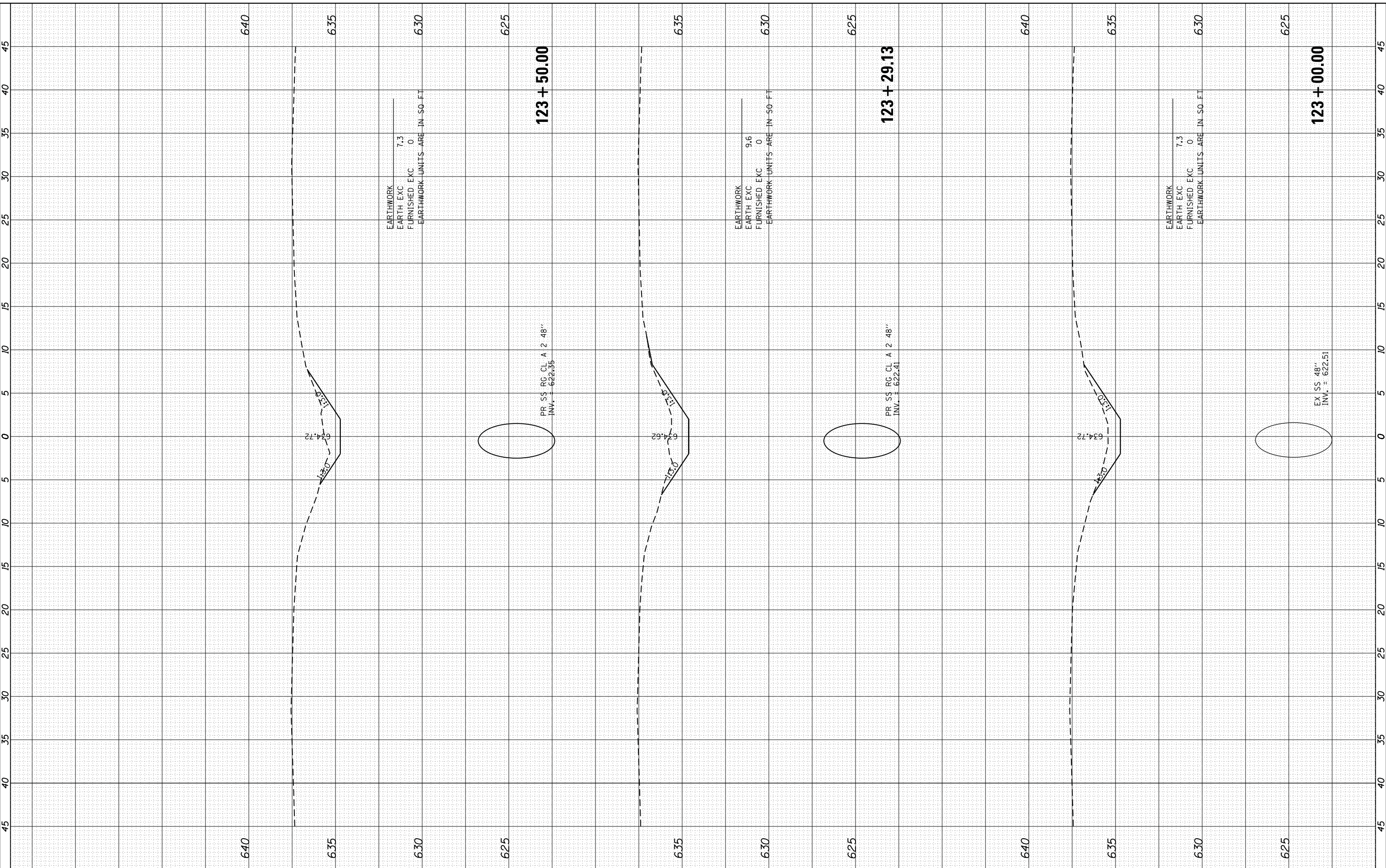
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F.A. RTE. 332	SECTION 2011-073-T	COUNTY COOK	TOTAL SHEETS 44	SHEET NO. 40
CONTRACT NO. 60P93			60P93	

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 ILLINOIS ROUTE 394**

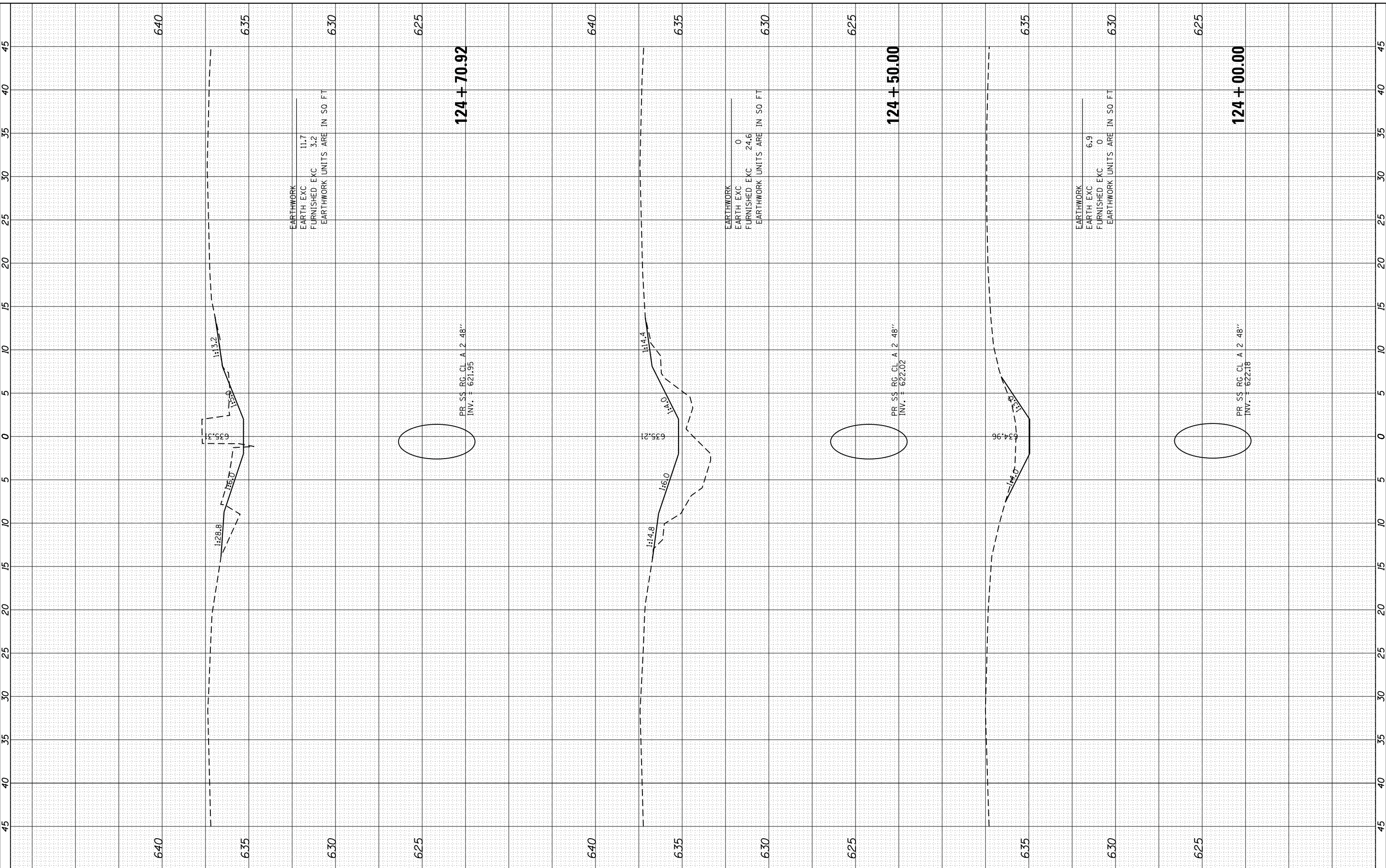
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2011-073-T	COOK	44	41
CONTRACT NO.			60P93	
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT 60P93	

FINL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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USER NAME = mhardn	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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	DATE - 5/17/2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 ILLINOIS ROUTE 394**

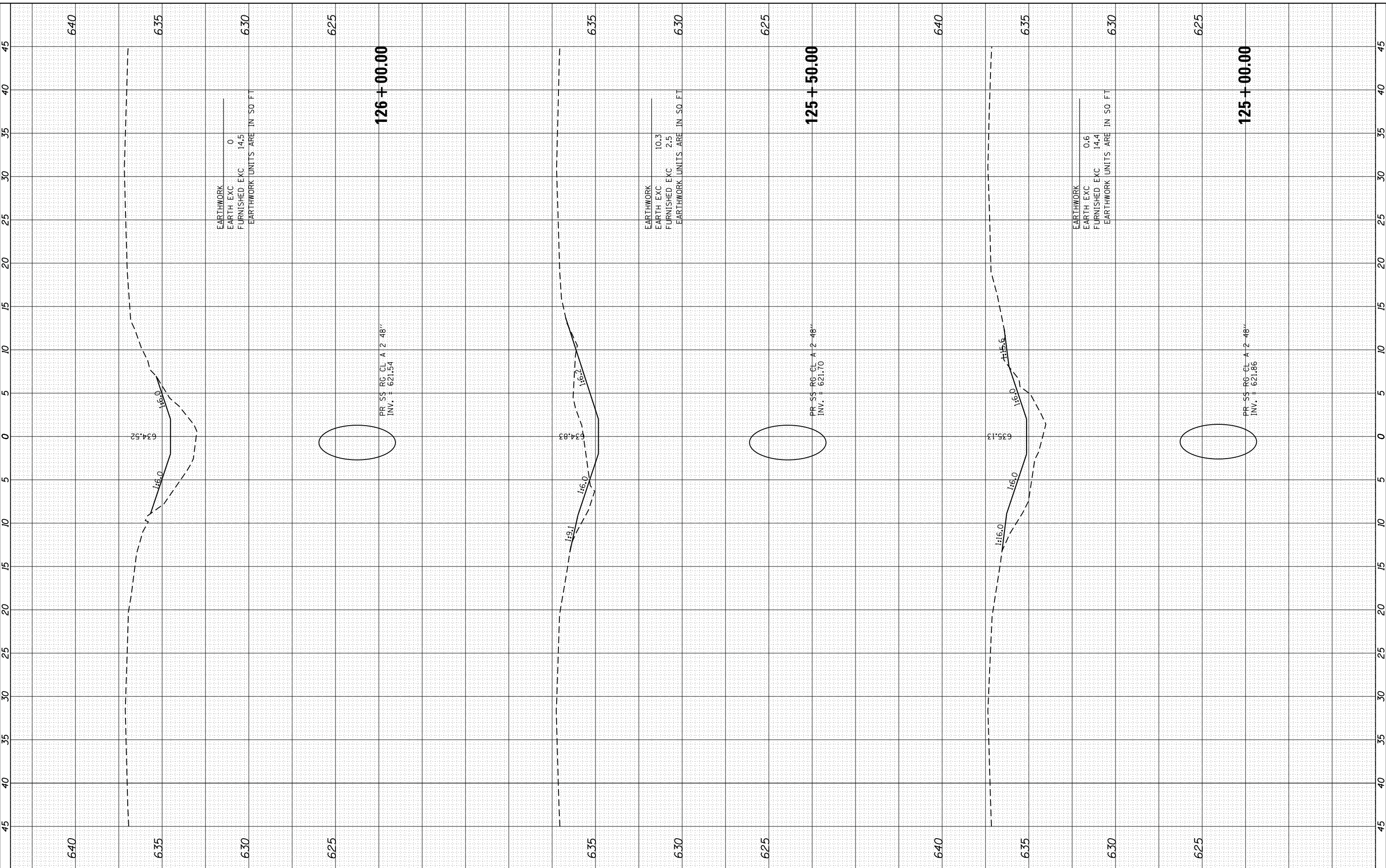
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F.A. RTE. 332	SECTION 2011-073-T	COUNTY COOK	TOTAL SHEETS 44	SHEET NO. 42
CONTRACT NO. 60P93			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT 60P93	

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

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

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 EARTHWORK UNITS ARE IN SQ FT

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 #184-001322

USER NAME = mhardin	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
	DATE - 5/17/2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 ILLINOIS ROUTE 394**

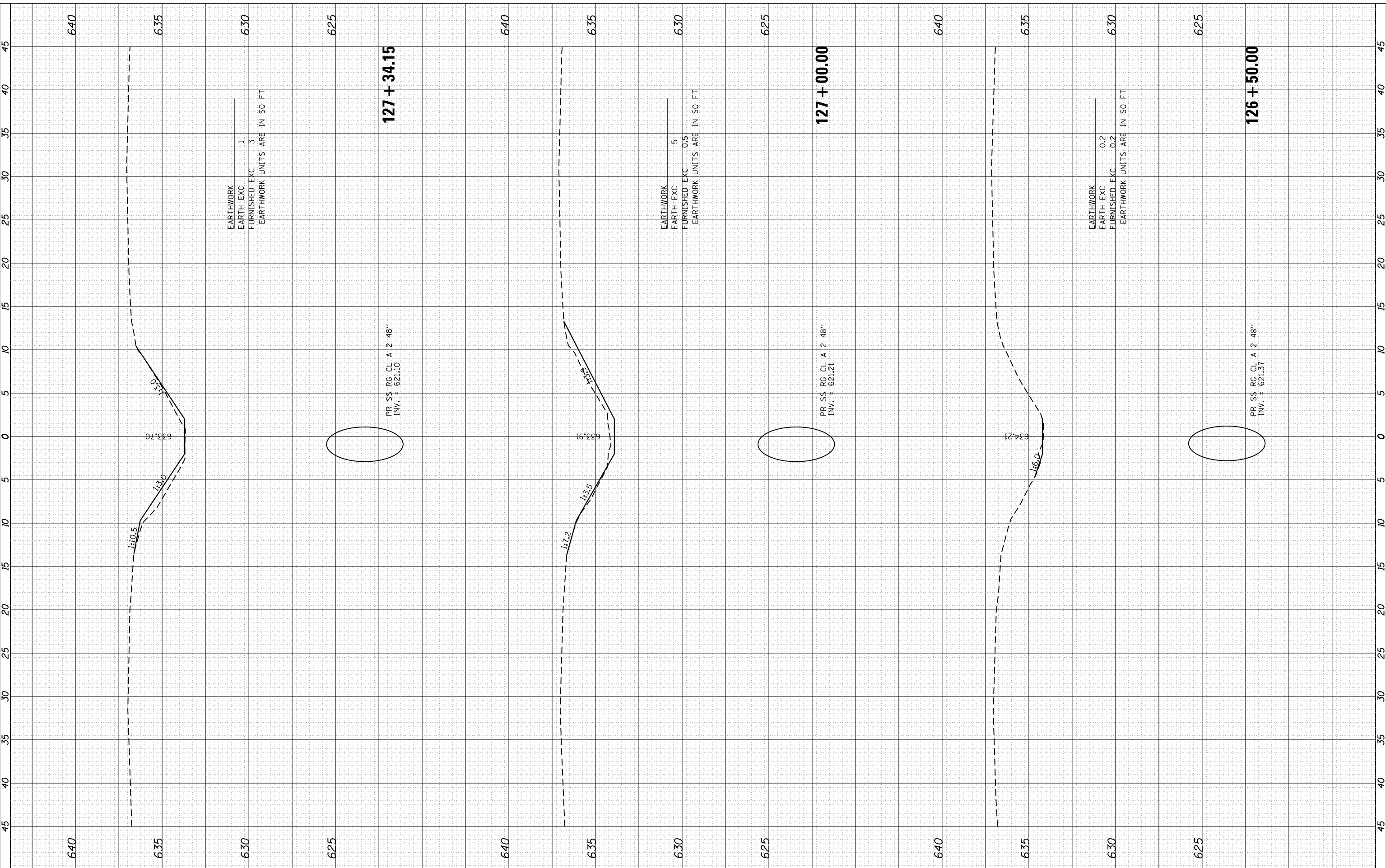
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F.A. RTE. 332	SECTION 2011-073-T	COUNTY COOK	TOTAL SHEETS 44	SHEET NO. 43
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60P93	60P93

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NOTE BOOK NO.	TEMPLATE AREAS CHECKED		

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

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 FURNISHED EXC 3
 EARTHWORK UNITS ARE IN SQ. FT.

EARTHWORK
 EARTH EXC 5
 FURNISHED EXC 0.5
 EARTHWORK UNITS ARE IN SQ. FT.

EARTHWORK
 EARTH EXC 0.2
 FURNISHED EXC 0.2
 EARTHWORK UNITS ARE IN SQ. FT.

HRGreen
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 Illinois Professional Design Firm
 #184-001322

USER NAME = mhardin	DESIGNED -	REVISED -
PLOT SCALE = 10H:5V	DRAWN -	REVISED -
PLOT DATE = 5/17/2012	CHECKED -	REVISED -
	DATE = 5/17/12	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 ILLINOIS ROUTE 394**

SCALE: 10H:5V SHEET NO. 6 OF 7 SHEETS STA. 126+50.00 TO STA. 127+34.15

F.A. RTE. 332	SECTION 2011-073-T	COUNTY COOK	TOTAL SHEETS 44	SHEET NO. 44
CONTRACT NO. 60P93			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT 60P93	