

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	OVD SIN STR REPL 18-31	KANKAKEE	20	1

ILLINOIS CONTRACT NO. 46469

D-3

D-93-022-18

- INDEX OF SHEETS**
- COVER SHEET
 - GENERAL NOTES
 - 4. SUMMARY OF QUANTITIES
 - TYPICAL SECTION
 - SITE PLAN
 - 8. IMPACT ATTENUATOR INSTALLATION DETAILS
 - SAND MODULE IMPACT ATTENUATORS
 - 18. OVERHEAD SIGN TRUSS - CANTILEVER DETAILS
 - PROPOSED SIGNAGE
 - BORING

**PROPOSED
HIGHWAY PLANS**

F.A.I. ROUTE 57 (I-57)
SECTION D-3 OVD SIN STR REPL 18-31
OVERHEAD SIGN TRUSS - CANTILEVER
KANKAKEE COUNTY

M-60-004-18

STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
- 701400-09 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701406-11 LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
- 701411-09 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP FOR SPEEDS ≥ 45 MPH
- 701428-01 TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
- 701901-06 TRAFFIC CONTROL DEVICES

PROJECT LOCATION

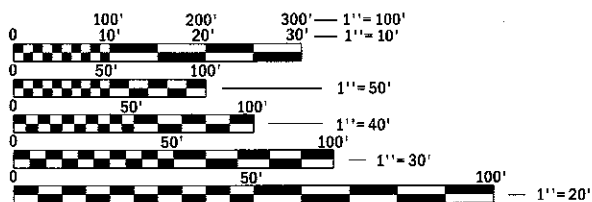
OVERHEAD SIGN STRUCTURE - CANTILEVER
S.N. #3C0461057R315.1
NB EXIT 315 TO IL 50
M.L. STA. 292+10
RAMP STA. 100+61



FUNCTIONAL CLASSIFICATION

URBAN INTERSTATE
MAINLINE F.A.I. 57 (I-57)
2015 ADT 28800
P.V. 76.4% S.U. 4.2% M.U. 19.4%

RAMP "G" F.A.I. 57 (I-57)
2015 ADT 800
P.V. 80.7% S.U. 3.7% M.U. 15.6%



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

PROJECT ENGINEER: JOE KANNEL P.E.
UNIT CHIEF: RON WOODSHANK
DISTRICT NO. 3 (815) 434-6131
CONTRACT NO. 46469



POINT LOCATION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Sept 6 2017
By Ellen Korn
REGIONAL ENGINEER

Oct 13 2017
Maureen M. Adams, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Oct 13 2017
Maureen Adams
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

REV

GENERAL NOTES

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

SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

ALL EXCAVATED MATERIAL, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS, MUST BE INCORPORATED WITHIN THE IDOT RIGHT OF WAY DUE TO ENVIRONMENTAL DOCUMENTATION REQUIREMENTS.

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

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PRESENCE OF DEPARTMENT-OWNED UNDERGROUND ELECTRICAL CABLE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR SHALL REQUEST THE ILLINOIS DEPARTMENT OF TRANSPORTATION IN OTTAWA (815-434-8417) TO LOCATE THE UNDERGROUND FACILITIES, PROVIDING A MINIMUM OF 72 HOURS NOTICE. THE DEPARTMENT IS NOT A MEMBER OF THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE) SYSTEM.

ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPlicing OF ELECTRIC CABLE WILL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

COMMITMENTS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

SUPERVISING CONSTRUCTION FIELD ENGINEER

REVIEWED BY: _____
DISTRICT STUDIES & PLANS ENGINEER

RESIDENT ENGINEER / TECHNICIAN

DATE: _____

START & END DATES
OF CONSTRUCTION: _____

EXAMINED BY: _____
DISTRICT CONSTRUCTION ENGINEER

INSPECTORS: _____

DISTRICT MATERIALS ENGINEER

DISTRICT OPERATIONS ENGINEER

MODEL: I:\D:\B...
 FILE NAME: I:\B...
 I:\B...

USER NAME = woodstank1	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
PLOT SCALE = 100.00' / in.	CHECKED - RW	REVISED -
PLOT DATE = 9/12/2017	DATE - 8/5/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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

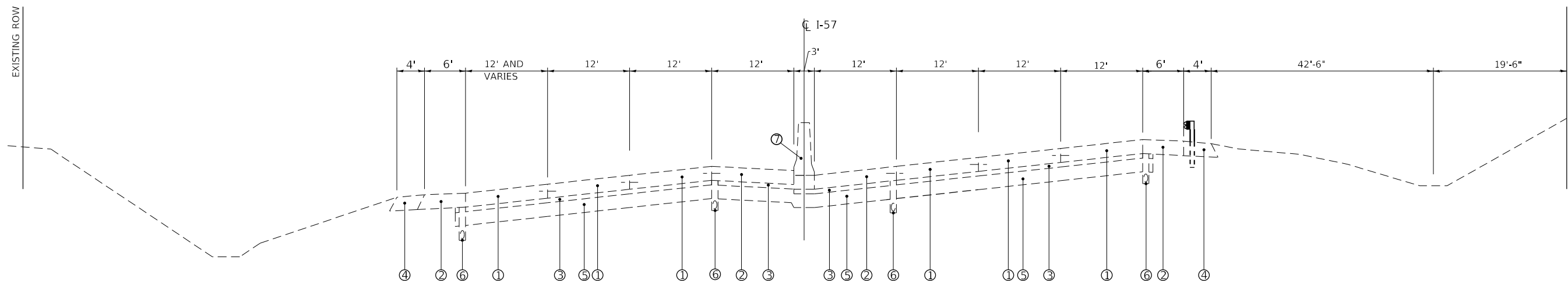
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	OVD SIM STR REPL 18-31	KANKAKEE	20	2
			CONTRACT NO. 46469	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				STRR
				100% STATE
				MINOR STRUCTURES
				09 44
				URBAN
X7330112	SAFETY CHAIN	EACH	2	2

MODEL: P:\GIS\...
 FILE NAME: S:\WORKSPACE\BENTLEY\EG...
 DATE: 8/5/2017 10:45:10 AM

USER NAME = wcc@stankr FLOT SCALE = 100.00' / in. FLOT DATE = 8/5/2017	DESIGNED - RW DRAWN - RW CHECKED - RW DATE - 8/5/2017	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.I. RTE. 57	SECTION OVD SIN STR REPL 18-31	COUNTY KANKAKEE	TOTAL SHEETS 20	SHEET NO. 4	CONTRACT NO. 46469	ILLINOIS FED. AID PROJECT
SCALE:				SHEET 2 OF 2 SHEETS				STA. TO STA.			

REV



I-57 TYPICAL SECTION SUPERELEVATION - CURVE TO LEFT

CURVE 1 - PC STA 284+11.96 TO PT STA 313+76.54
 SE TRANSITION - STA 281+93.96 TO STA 285+20.96
 FULL SE - STA 285+20.96 TO STA 312+97.54
 SE TRANSITION - STA 312+97.54 TO STA 316+24.54

LEGEND

- ① CONTINUOUSLY REINFORCED CONCRETE PAVEMENT 12 $\frac{3}{4}$ "
- ② PORTLAND CEMENT CONCRETE SHOULDERS 12 $\frac{3}{4}$ "
- ③ STABILIZED SUBBASE - HMA 4"
- ④ AGGREGATE SHOULDERS 12"
- ⑤ AGGREGATE SUBGRADE 12"
- ⑥ PIPE UNDERDRAIN 4"
- ⑦ CONCRETE BARRIER, DOUBLE FACE, 42" HEIGHT
- ⑧ STEEL PLATE BEAM GUARDRAIL, TYPE A
- ⑨ GUARDRAIL STABILIZATION - PCC
SEE STANDARD 630001 AND 630201

MODEL: Default
 FILE: \\mhc-pw\illinois\BID\NTEC\Illinois\gov\PW\DOT\Documents\1\DOT_Offices\Director\3\Projects\03161689\CADD\1\103161689-sec-entblk.dgn

USER NAME = woodshankr	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
PLOT SCALE = 100.00' / in.	CHECKED - RW	REVISED -
PLOT DATE = 9/13/2017	DATE - 8/5/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTION

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

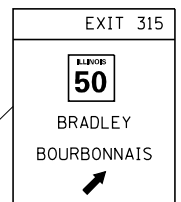
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	OVD SIN STR REPL 18-31	KANKAKEE	20	5
			CONTRACT NO. 46469	
		ILLINOIS	FED. AID PROJECT	

B.M. #1 S.W. CORNER BOLT ON LIGHT POLE FOUNDATION
 RAMP STA. 104+70, ±67' OFFSET EDGE OF RAMP PCC SHOULDER.
 ELEVATION = 689.79

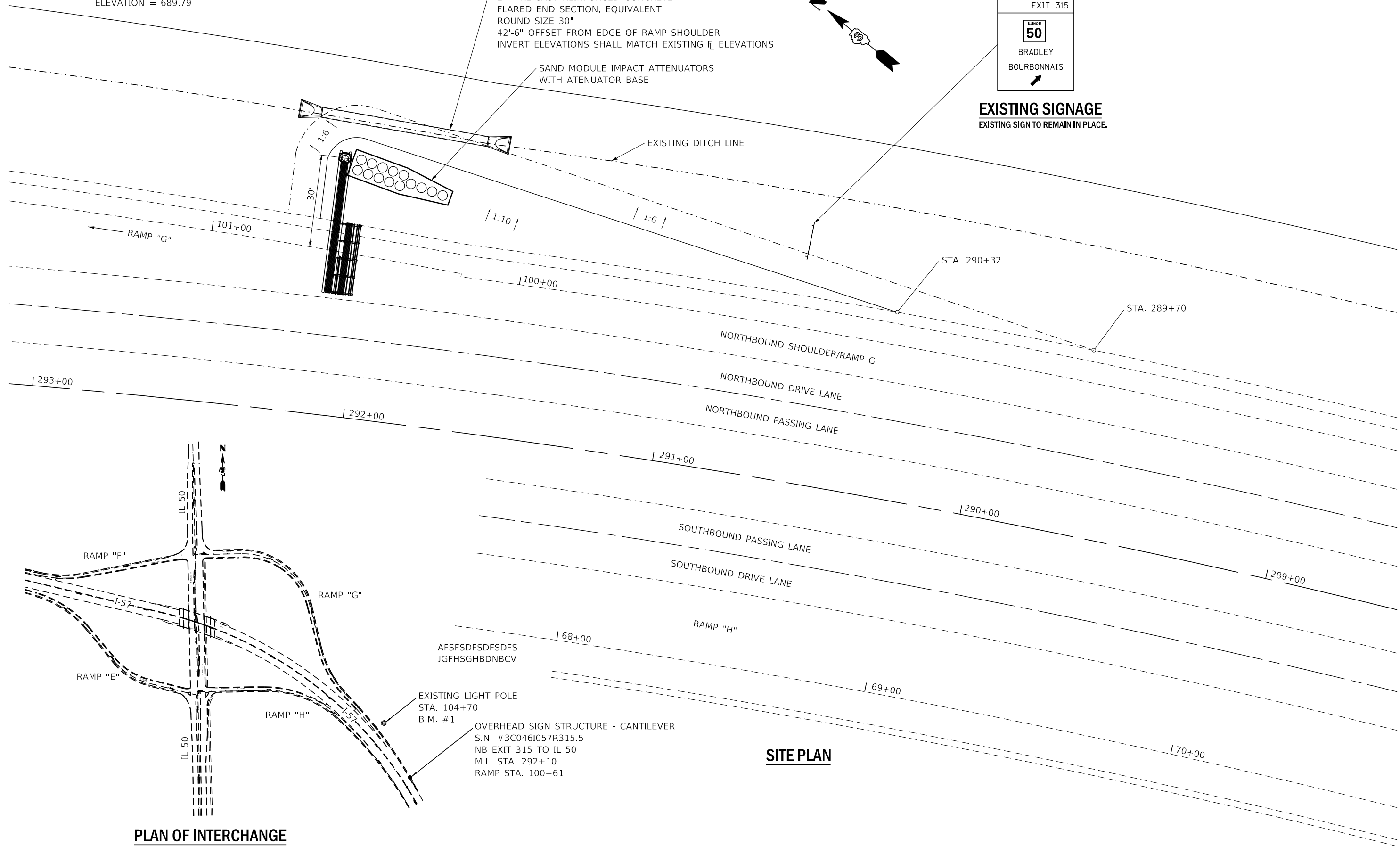
48" - PIPE CULVERT, CLASS A, TYPE 1
 EQUIVALENT ROUND SIZE 30" WITH
 2 - PRE-CAST REINFORCED CONCRETE
 FLARED END SECTION, EQUIVALENT
 ROUND SIZE 30"
 42"-6" OFFSET FROM EDGE OF RAMP SHOULDER
 INVERT ELEVATIONS SHALL MATCH EXISTING ELEVATIONS

SAND MODULE IMPACT ATTENUATORS
 WITH ATENUATOR BASE

EXISTING DITCH LINE



EXISTING SIGNAGE
 EXISTING SIGN TO REMAIN IN PLACE.



SITE PLAN

PLAN OF INTERCHANGE

EXISTING LIGHT POLE
 STA. 104+70
 B.M. #1

OVERHEAD SIGN STRUCTURE - CANTILEVER
 S.N. #3C0461057R315.5
 NB EXIT 315 TO IL 50
 M.L. STA. 292+10
 RAMP STA. 100+61

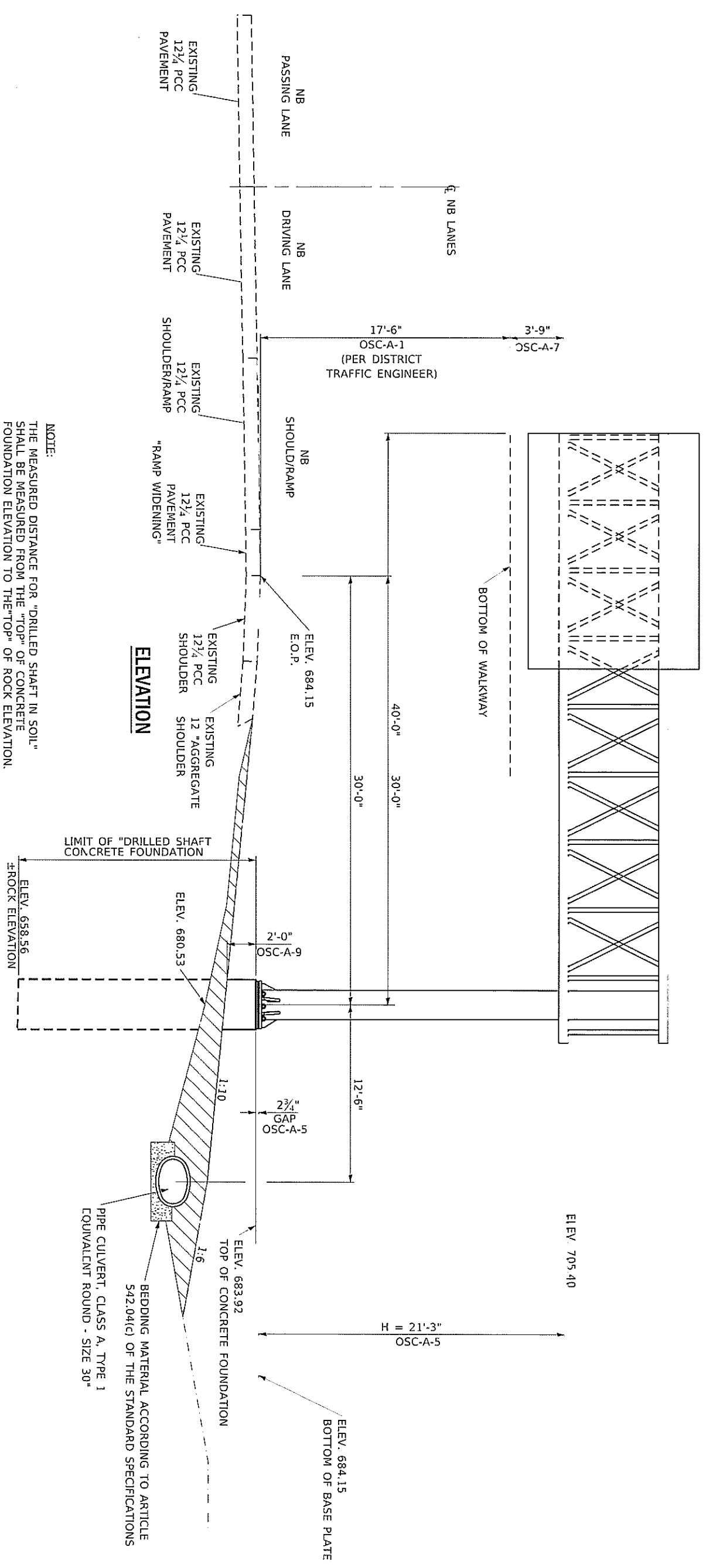
MODEL: Default
 FILE: \\nas0101\B84E81D1\TEC\Illinois\pov\PW\DOT\Documents\DOT Office\Bldg\1\3\Proj\CS\03161689\CADD\031013161689-03-01.dgn

USER NAME = woodshankr	DESIGNED - RW	REVISED -
PLOT SCALE = 100.00' / in.	DRAWN - RW	REVISED -
PLOT DATE = 9/13/2017	CHECKED - RW	REVISED -
	DATE - 8/5/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SITE PLAN	
SCALE:	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	OVD SIN STR REPL 18-31	KANKAKEE	20	6
CONTRACT NO. 46469				
ILLINOIS FED. AID PROJECT				



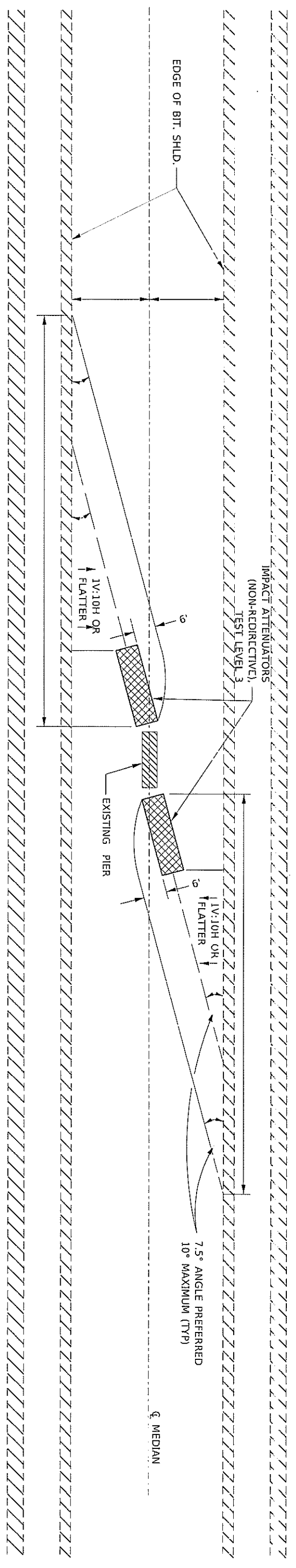
USER NAME	workbank1	DESIGNED	RV	REVISED	-
PLOT SCALE	100.00 x 1/16"	DRAWN	RV	REVISED	-
PLOT DATE	9/22/17	CHECKED	RV	REVISED	-
		DATE	8/2/2017	REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IMPACT ATTENUATOR INSTALLATION DETAILS
 SHEET 1 OF 2 SHEETS STA. TO STA.

FAI RTE	SECTION	COUNTY	TOTAL SHEET NO.
57	OVD SIM STR REFL 18-31	KANKAKEE	20
	CONTRACT NO.		7
	46469		

- GENERAL NOTES**
1. THE 10:1 SLOPE CONTROLS NOSE OF ATTENUATOR BASE ELEVATION.
 2. ATTENUATOR BASE GRADE PARALLELS EDGE OF PAVEMENT GRADE.
 3. SLOPE ADJACENT TO ATTENUATOR BASE SHALL BE 10:1 OR FLATTER.

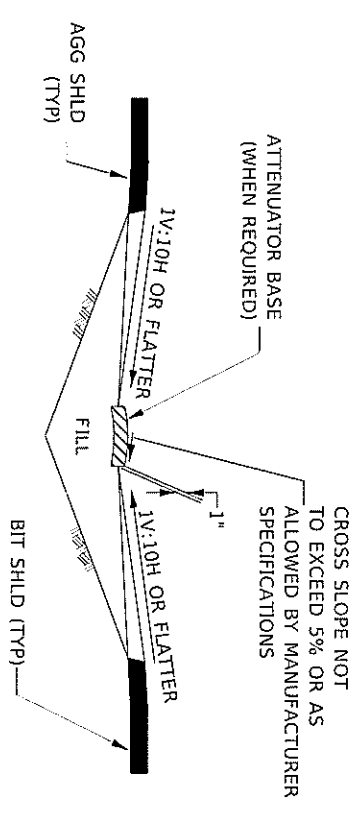


NOTE:

ATTENUATOR BASE SHALL BE PER MANUFACTURER SPECIFICATIONS EXCEPT SAND MODULE SYSTEMS SHALL HAVE THE FOLLOWING ADDITIONAL REQUIREMENTS:

1. ATTENUATOR BASE SHALL PROVIDE A 1' BUFFER ALONG THE SIDES AND FRONT OF THE ARRAY.
2. SAND MODULE SYSTEMS SHALL BE PLACED ON A HMA OR CONCRETE BASE.

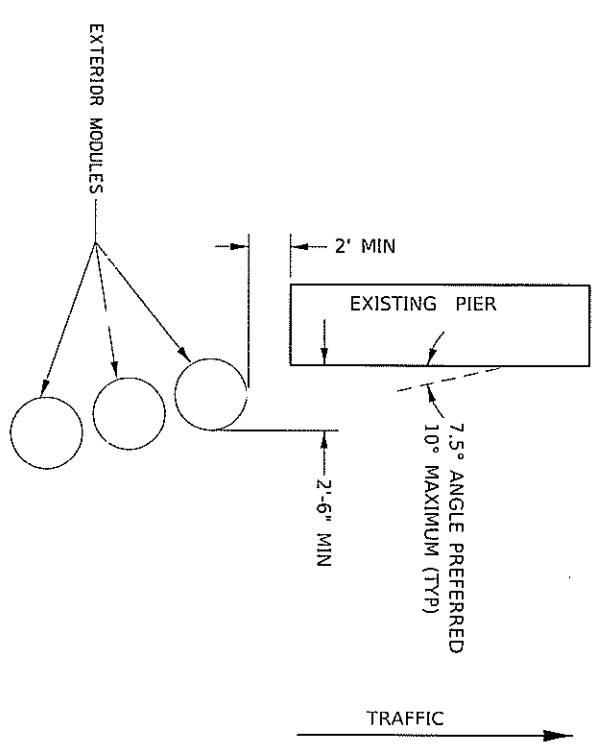
IMPACT ATTENUATOR LAYOUT AND GRADING PLAN



CROSS SLOPE NOT TO EXCEED 5% OR AS ALLOWED BY MANUFACTURER SPECIFICATIONS

ATTENUATOR BASE (WHEN REQUIRED)

SECTION A - A



TYPICAL EXTERIOR MODULE LAYOUT

USER NAME	DESIGNED	RV	REVISED
PLLOT SCALE = 1/8" = 1'-0"	DRAWN	RV	REVISED
PLLOT DATE = 8/5/2017	CHECKED	RV	REVISED
	DATE	8/5/2017	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IMPACT ATTENUATOR INSTALLATION DETAILS
 SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

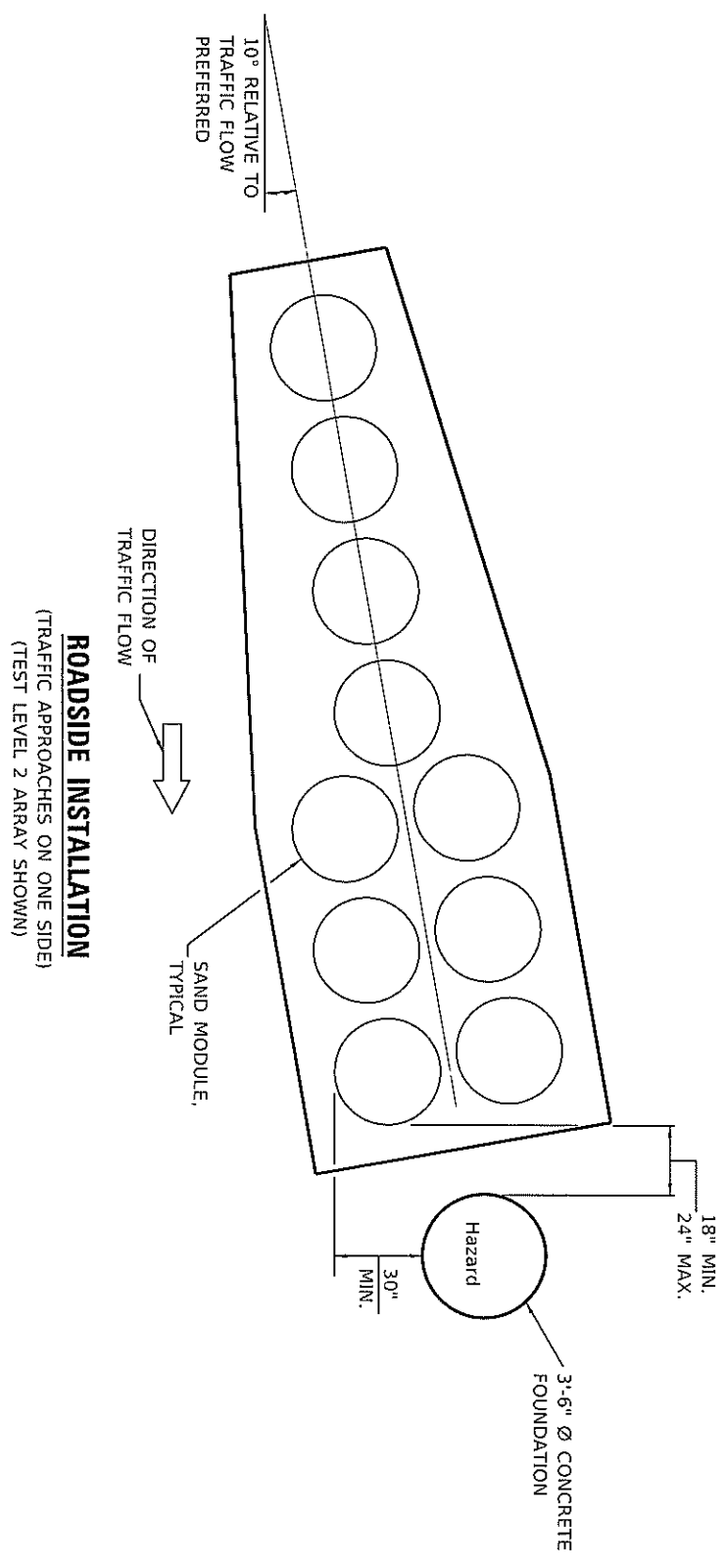
F.A.I. RTE	SECTION	COUNTY	TOTAL SHEET NO.
57	OVD 5th STR. REPL. 18-31	KANKAKEE	20
			8
			CONTRACT NO. 46469

DESIGNED	RV	REVISED	-
DRAWN	RV	REVISED	-
CHECKED	RV	REVISED	-
DATE	8/5/2017	REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

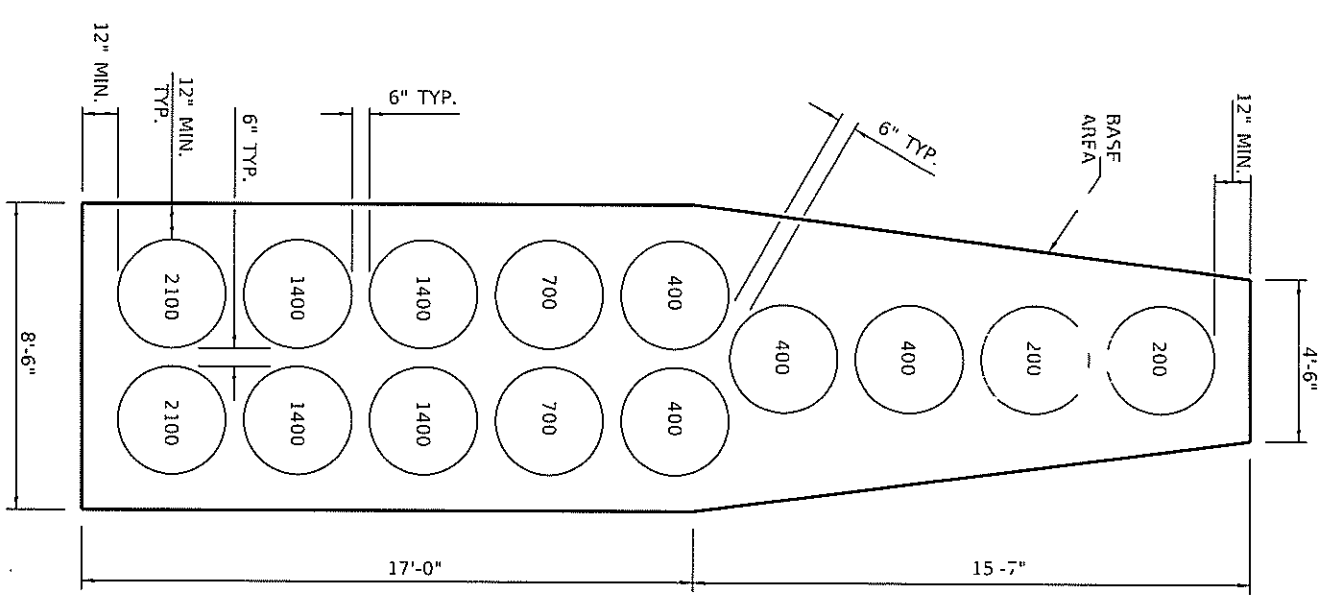
SAND MODULE IMPACT ATTENUATORS
 SHEET 1 OF 1 SHEETS STA. TO STA.

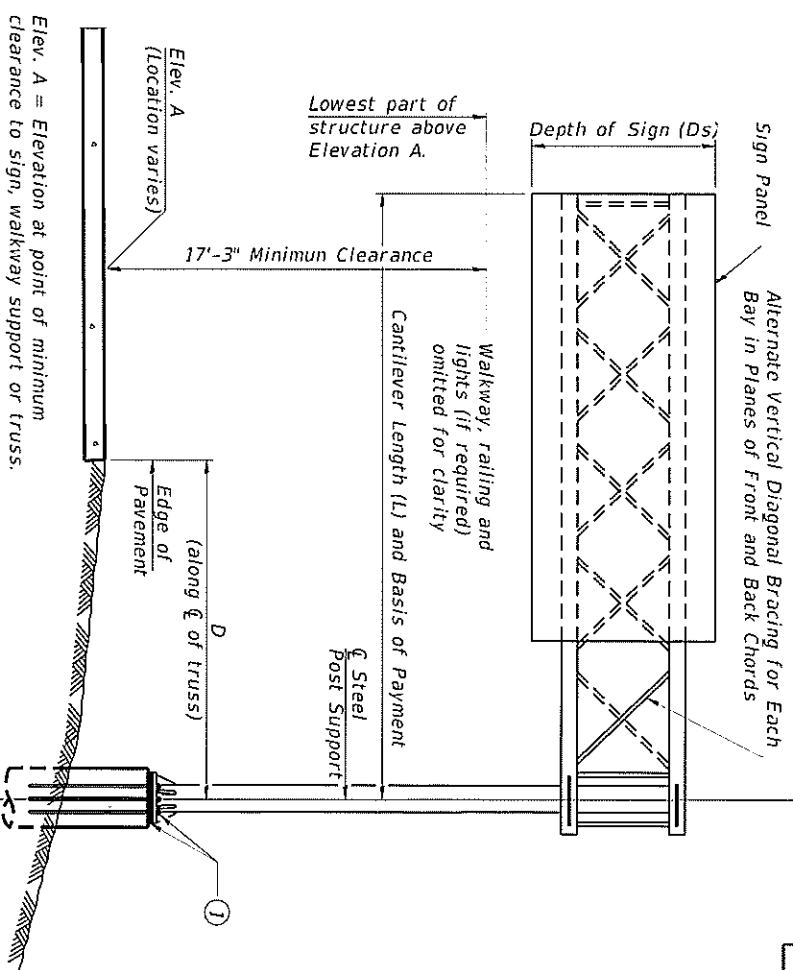
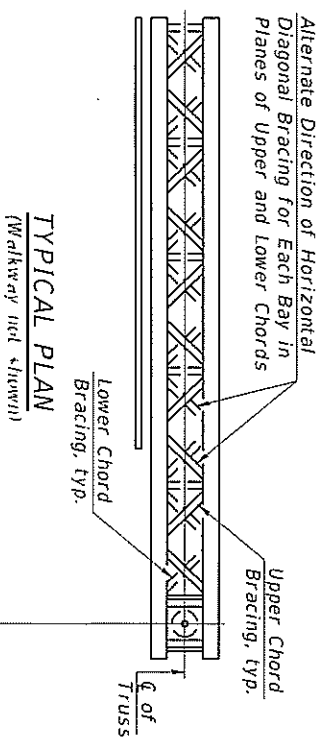
F.A.I. NO.	SECTION	COUNTY	TOTAL SHEET NO.
57	OVD SIV STR REPL 18-31	KANKAKEE	20
			9
			CONTRACT NO. 46469



ROADSIDE INSTALLATION
 (TRAFFIC APPROACHES ON ONE SIDE)
 (TEST LEVEL 2 ARRAY SHOWN)

TEST LEVEL 3 ARRAY
 (FOR DESIGN SPEED GREATER THAN 45 MPH.)
 (NUMBERS INSIDE SAND MODULES INDICATE SAND WEIGHT IN POUNDS.)



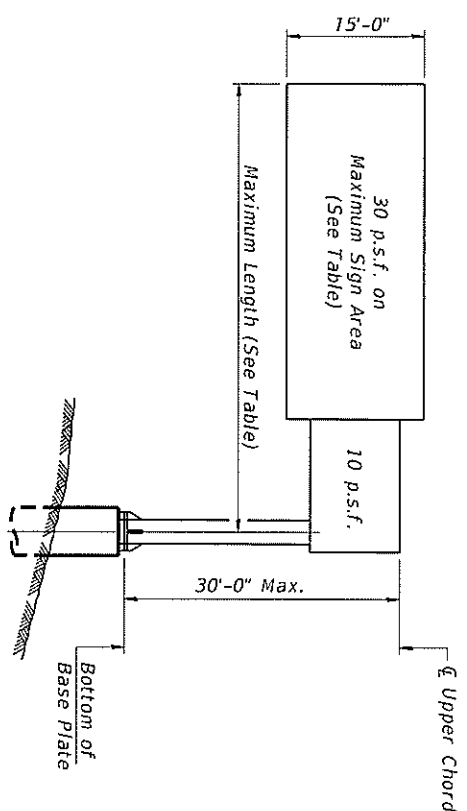


Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.

TYPICAL ELEVATION
Looking in Direction of Traffic

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	Ds	Total Sign Area
3C0461057R315.1	292+10	III-C-A	40'-0"	684.15	30'-0"	12'-0"	198.0

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.
 - 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.

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 Joints
 $F = 3,500$ p.s.i.
 $F_y = 60,000$ p.s.i. (reinforcement)

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

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

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2) 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 G. 105.

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

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

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
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	24
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	12.1

OSC-A-1

2-17-2017

USER NAME	DESIGNED	DATE
wwoodruck	RV	8/5/2017
DRAWN	RV	
CHECKED	RV	
REVISION	REVISION	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - GENERAL PLAN & ELEVATION	ALUMINUM TRUSS & STEEL POST
SCALE: SHEET 1 OF 9 SHEETS STA. TO STA.	F.A.I. SECTION COUNTY TOTAL SHEET NO. 57 OVD SIN STR REPL 18-31 KANKAKEE 20 10 ILLINOIS FED. AID PROJECT CONTRACT NO. 464689

OSC-A-2

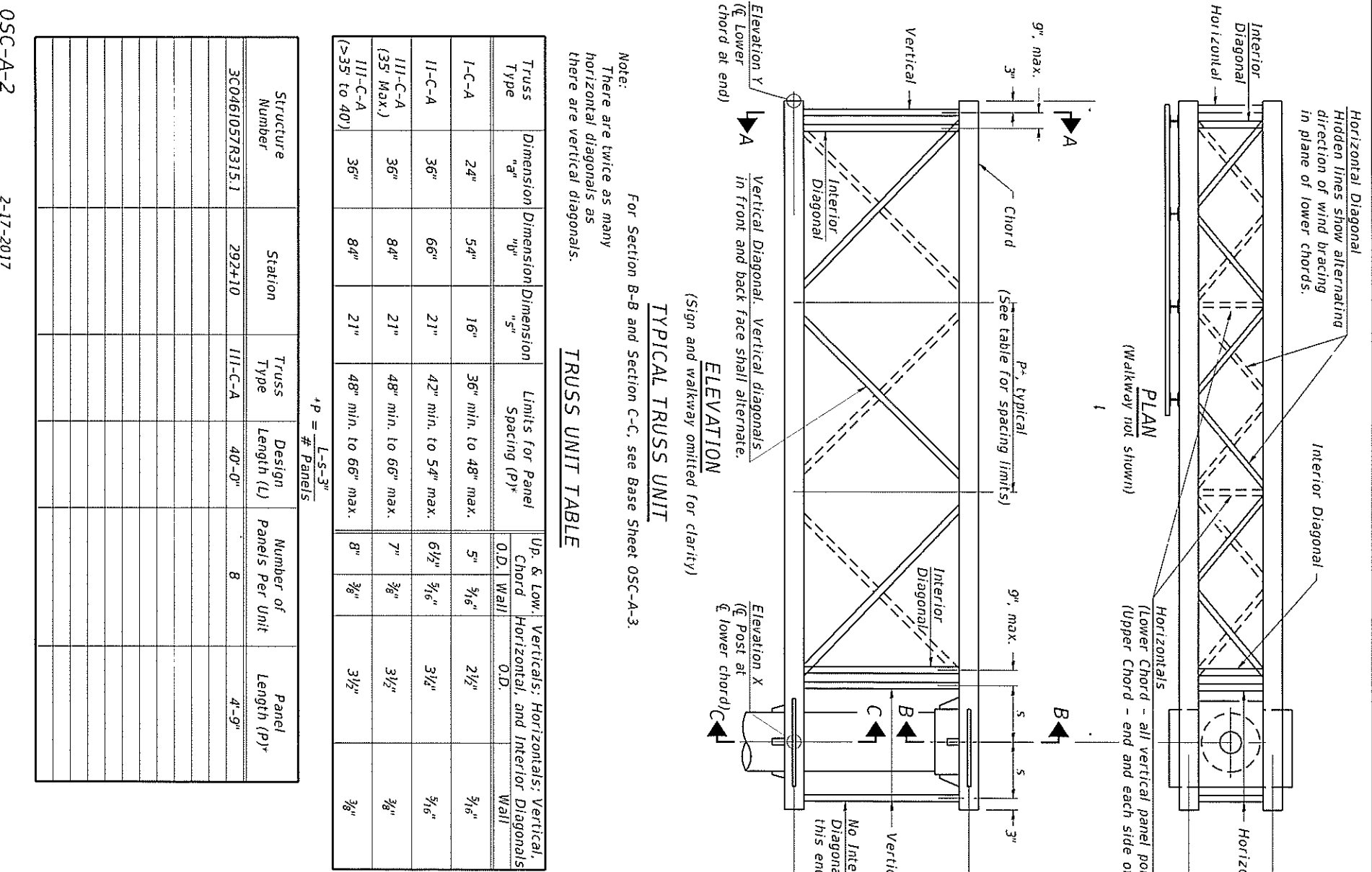
2-17-2017

DESIGNED	RVV	REVISION	
DRAWN	RVV	REVISION	
CHECKED	RVV	REVISION	
DATE	5/9/2017	REVISION	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST

SCALE:	SHEET 2	OF 9	SHEETS	STA.	TO STA.
FALL	SECTION	COUNTY	TOTAL SHEETS		
57	OVD SIV STR REFL 18-31	KANKAKEE	20	11	
	CONTRACT NO.	46469			



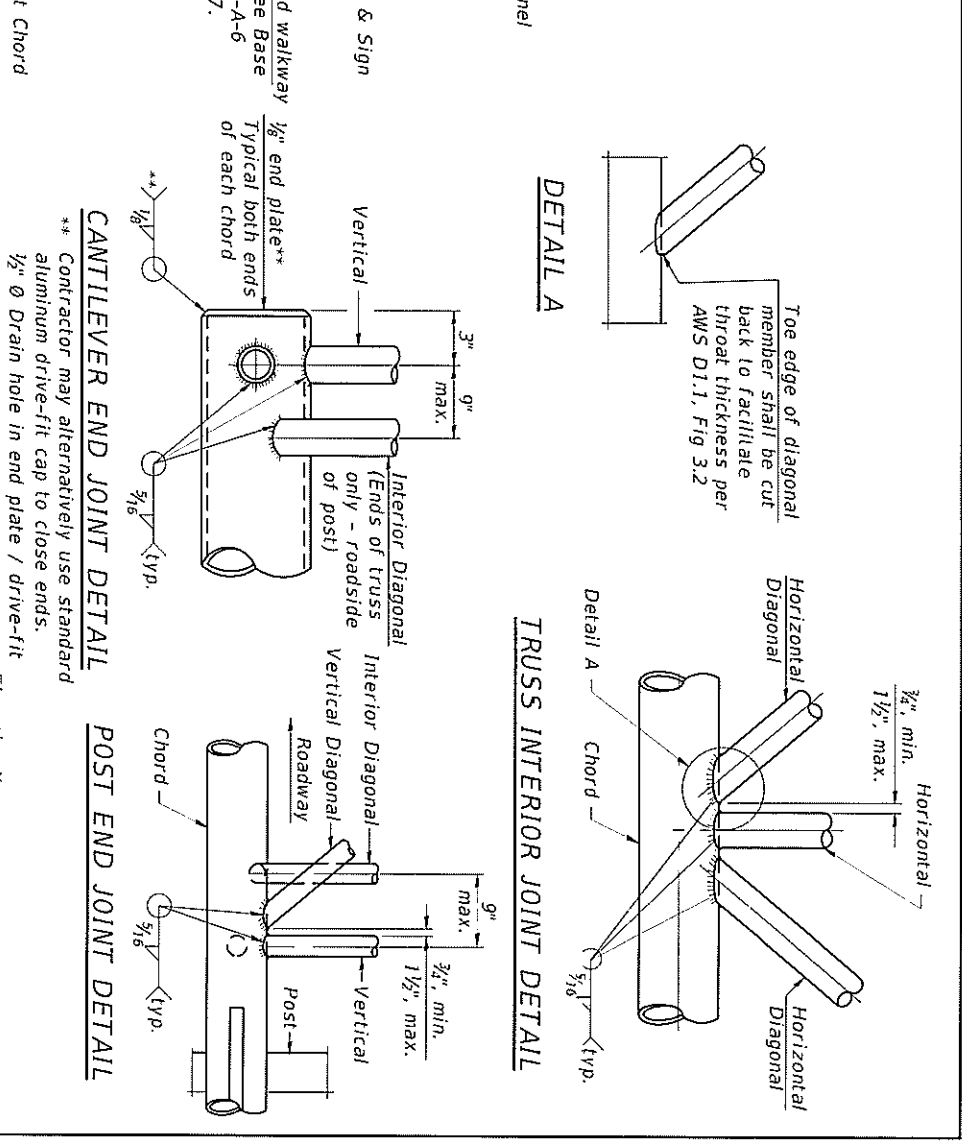
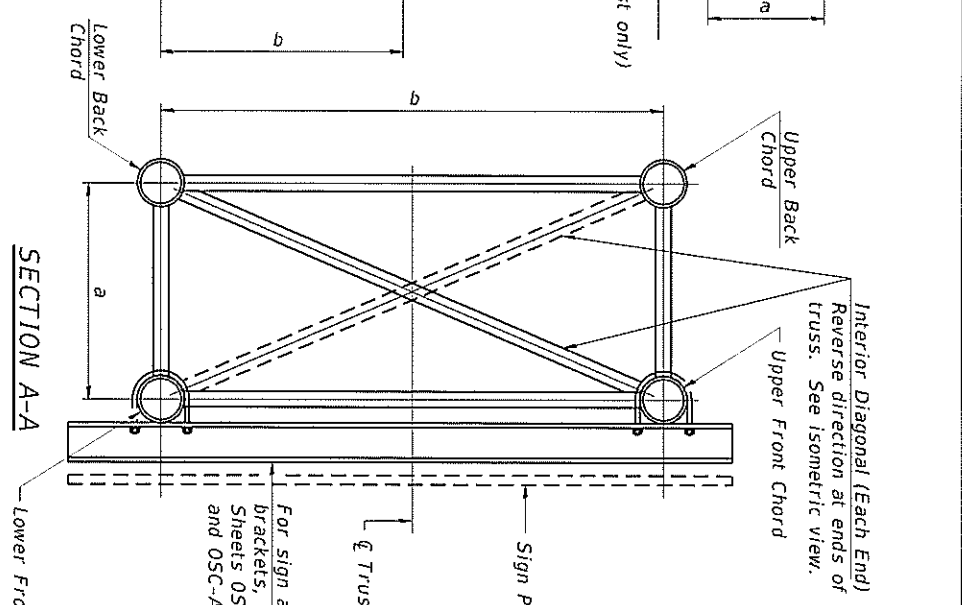
TYPICAL TRUSS UNIT

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

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

*P = # Panels

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"



DETAIL A

TRUSS INTERIOR JOINT DETAIL

CANTILEVER END JOINT DETAIL

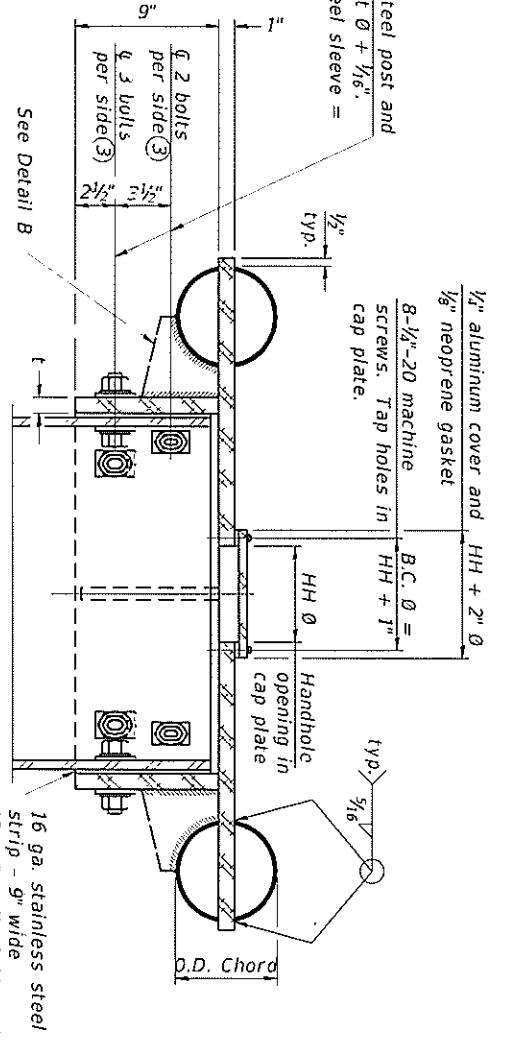
POST END JOINT DETAIL

** Contractor may alternatively use standard aluminum drive-fit cap to close ends.
1/2" Ø Drain hole in end plate / drive-fit cap.

CAMBER DIAGRAM (For Fabrication Only)

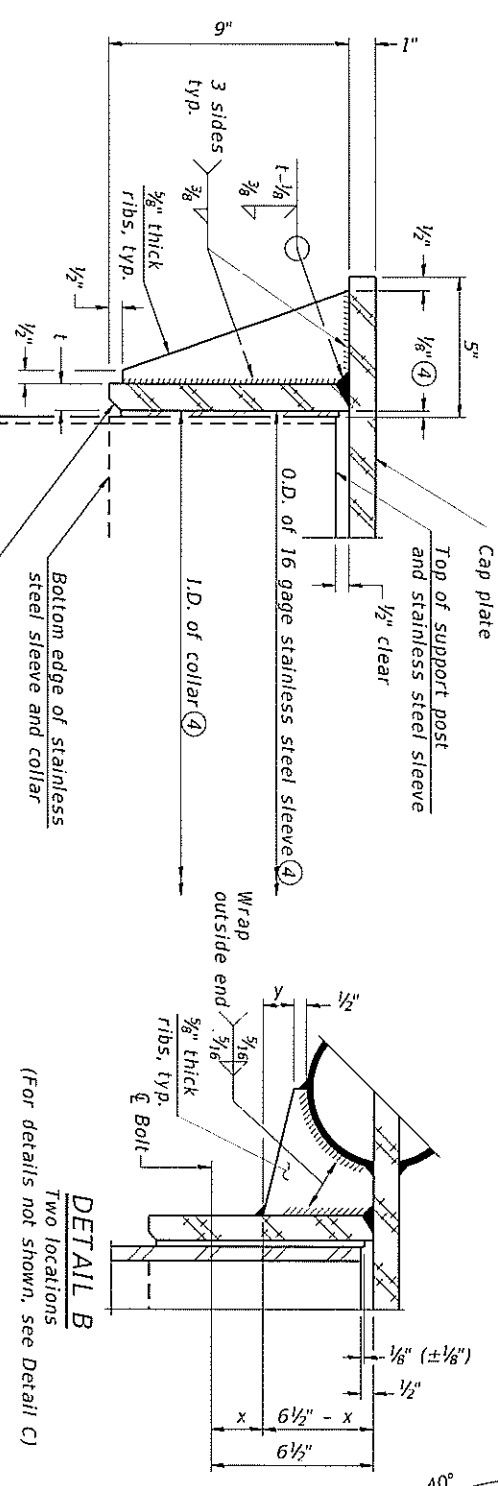
ISOMETRIC VIEW
TYPICAL TRUSS UNIT
ASTM B221 Alloy 6061 Temper T6

Holes in galvanized steel post and aluminum collar = bolt $\varnothing + \frac{1}{16}$ "
 Holes in stainless steel sleeve = bolt $\varnothing + \frac{3}{16}$ "

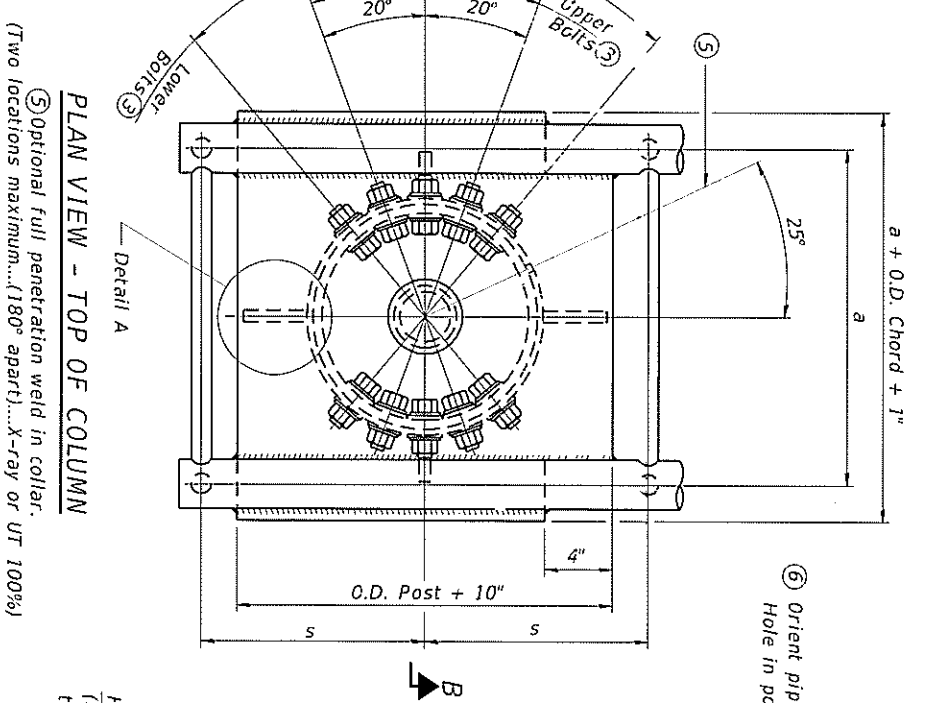


④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus $\frac{1}{8}$ " ($\pm \frac{1}{16}$ "). Maximum gap between post and collar at any location equals $\frac{1}{8}$ " before tightening bolts.

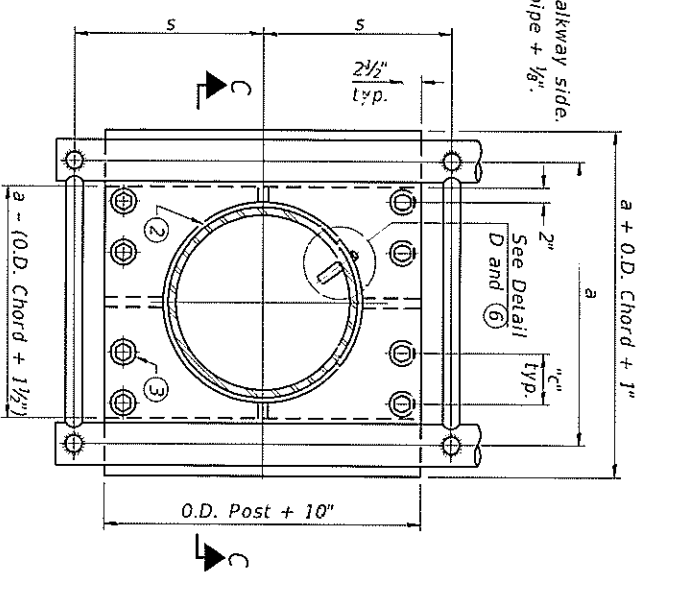
Bolts, washers (including contoured washers), and locknuts shall be stainless steel.



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

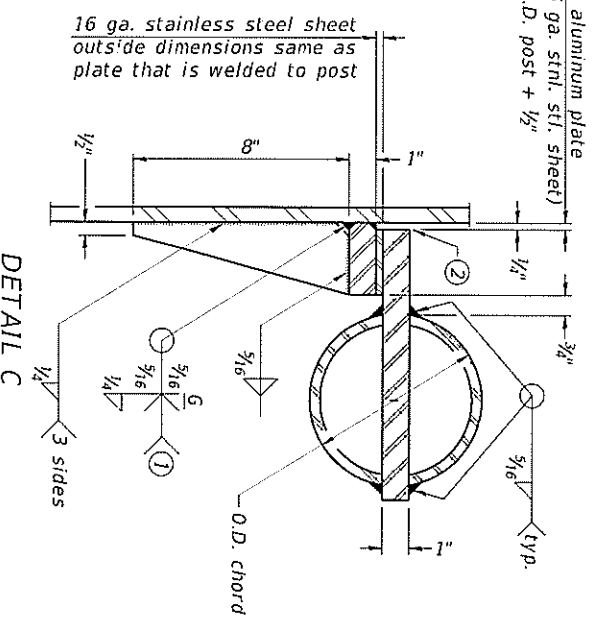


⑥ Orient pipe toward walkway side.
 Hole in post = O.D. pipe + $\frac{1}{8}$ "

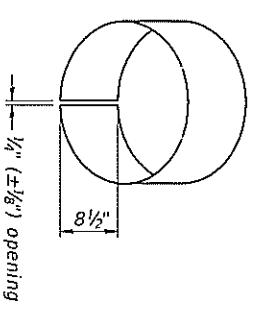


SECTION THRU POST ABOVE LOWER CHORDS

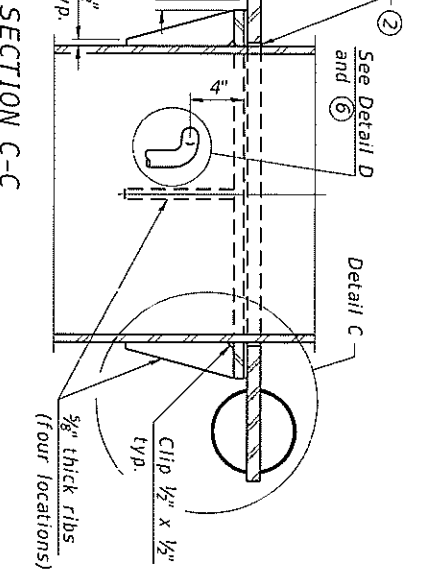
Hole in aluminum plate (and 16 ga. stn. sti. sheet) to be O.D. post + $\frac{1}{2}$ "



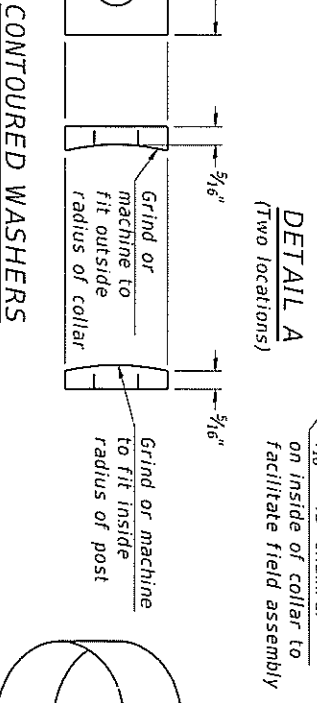
DETAIL C



DETAIL D



SECTION C-C



DETAIL A
 (Two locations)

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 1/2"

DETAIL OF STAINLESS STEEL SLEEVE

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

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

- Grind top if required to fully seat aluminum plate and stainless steel sheet.
- 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.
- 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

2-17-2017

DESIGNED	RV	REVISION
UNFR. HEAD	WENSHANKI	
DRAWN	RV	REVISION
CHECKED	RV	REVISION
DATE	8/5/2017	REVISION

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - JUNCTION DETAILS
 ALUMINUM TRUSS & STEEL POST

SCALE: SHEET 3 OF 9 SHEETS STA. TO STA.

FAT	SECTION	COUNTY	TOTAL SHEET NO.
57	OVD SIGN STR. REPL. 18-31	KANKAKEE	20
	CONTRACT NO. 46469		12

OSC-A-5

2-17-2017

DESIGNED	RV	REVISED	
CHECKED	RV	REVISED	
DATE	8/9/2017	REVISED	

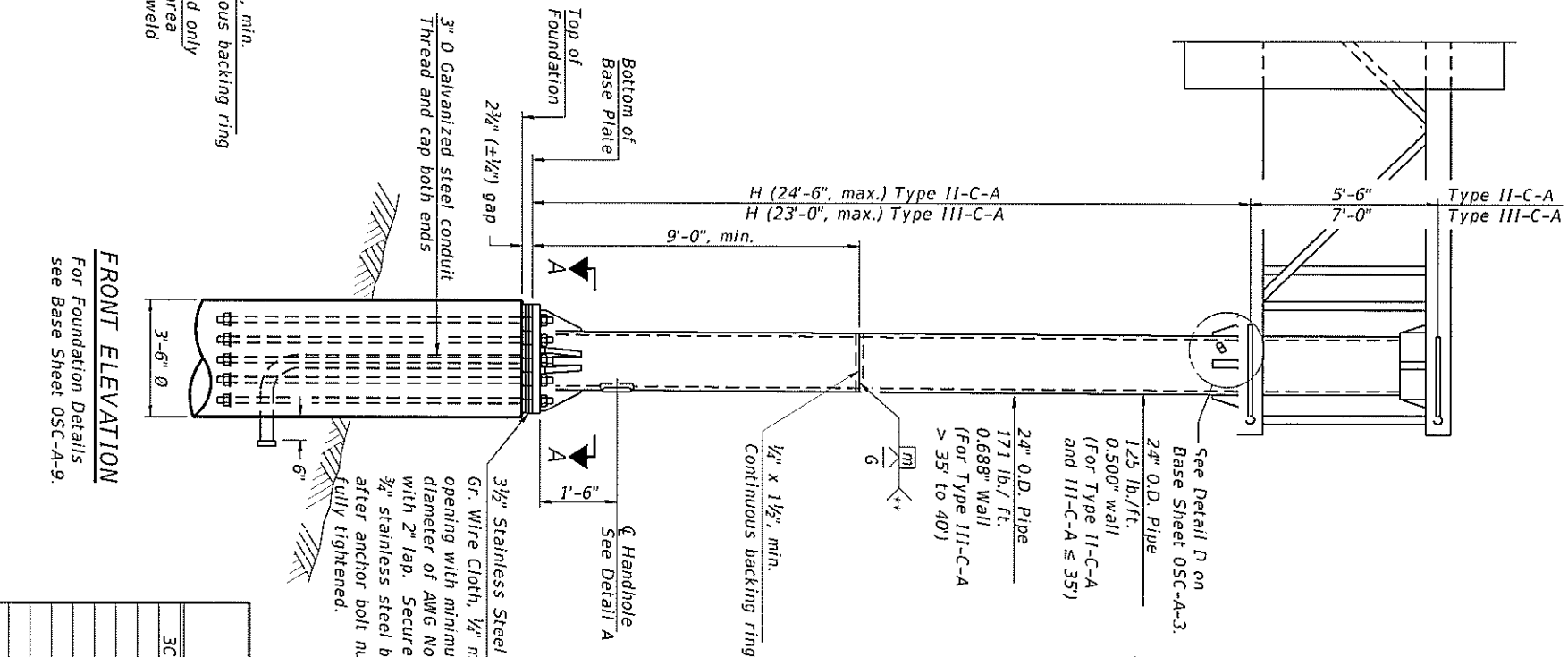
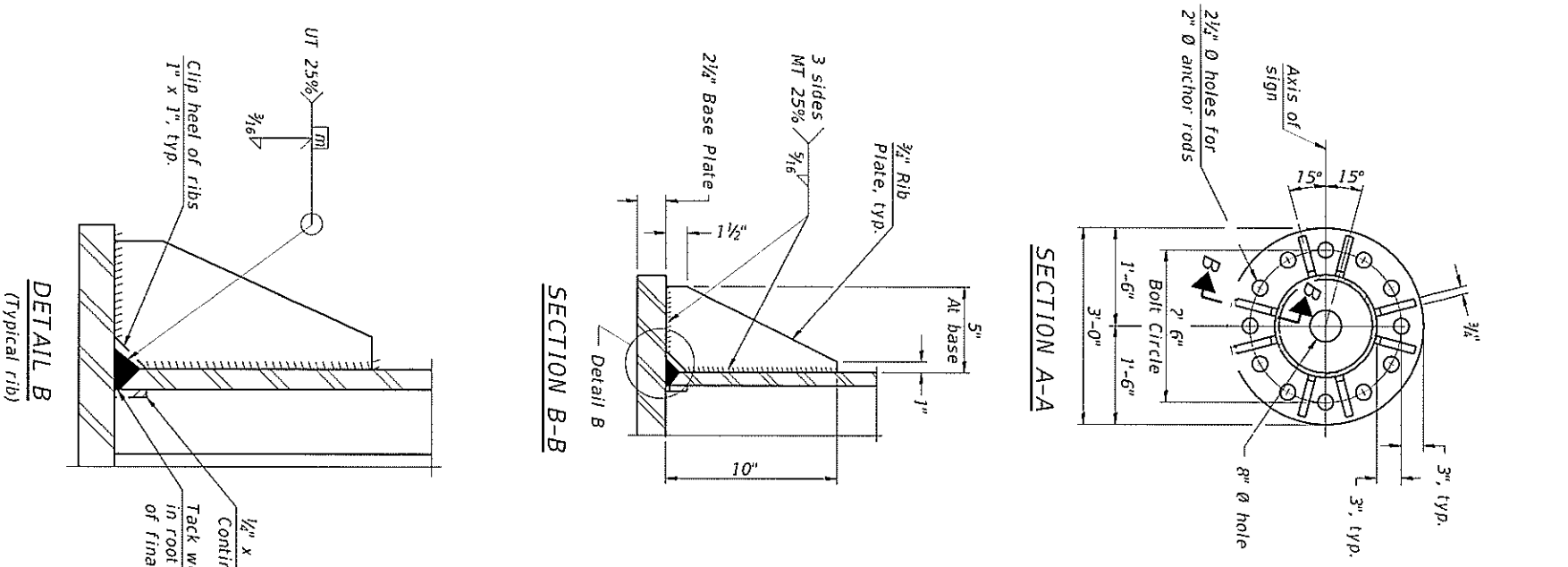
DESIGNED	RV	REVISED	
CHECKED	RV	REVISED	
DATE	8/9/2017	REVISED	

DESIGNED	RV	REVISED	
CHECKED	RV	REVISED	
DATE	8/9/2017	REVISED	

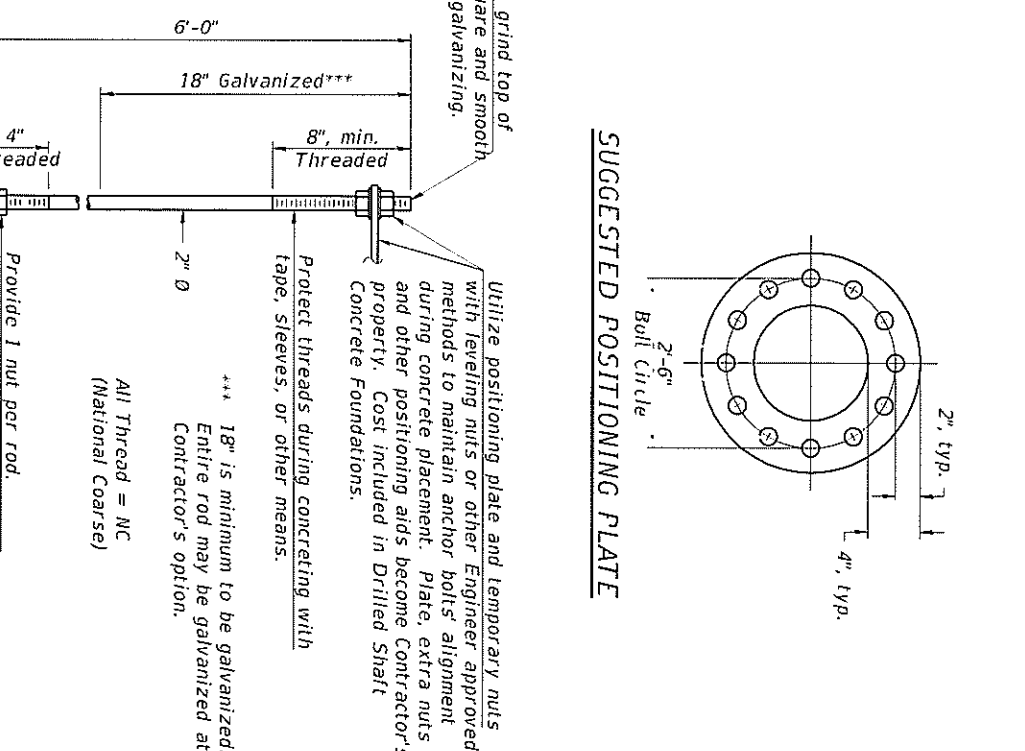
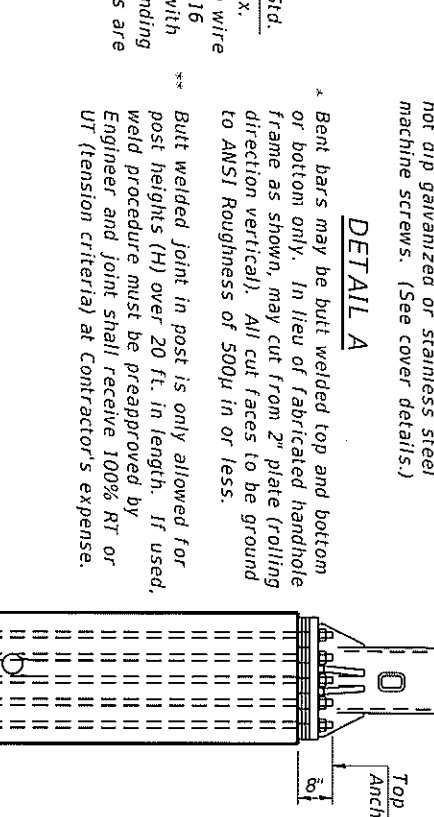
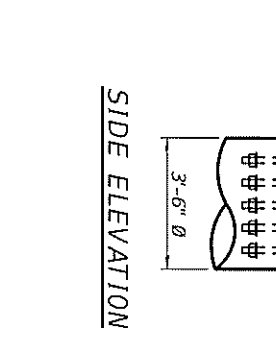
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

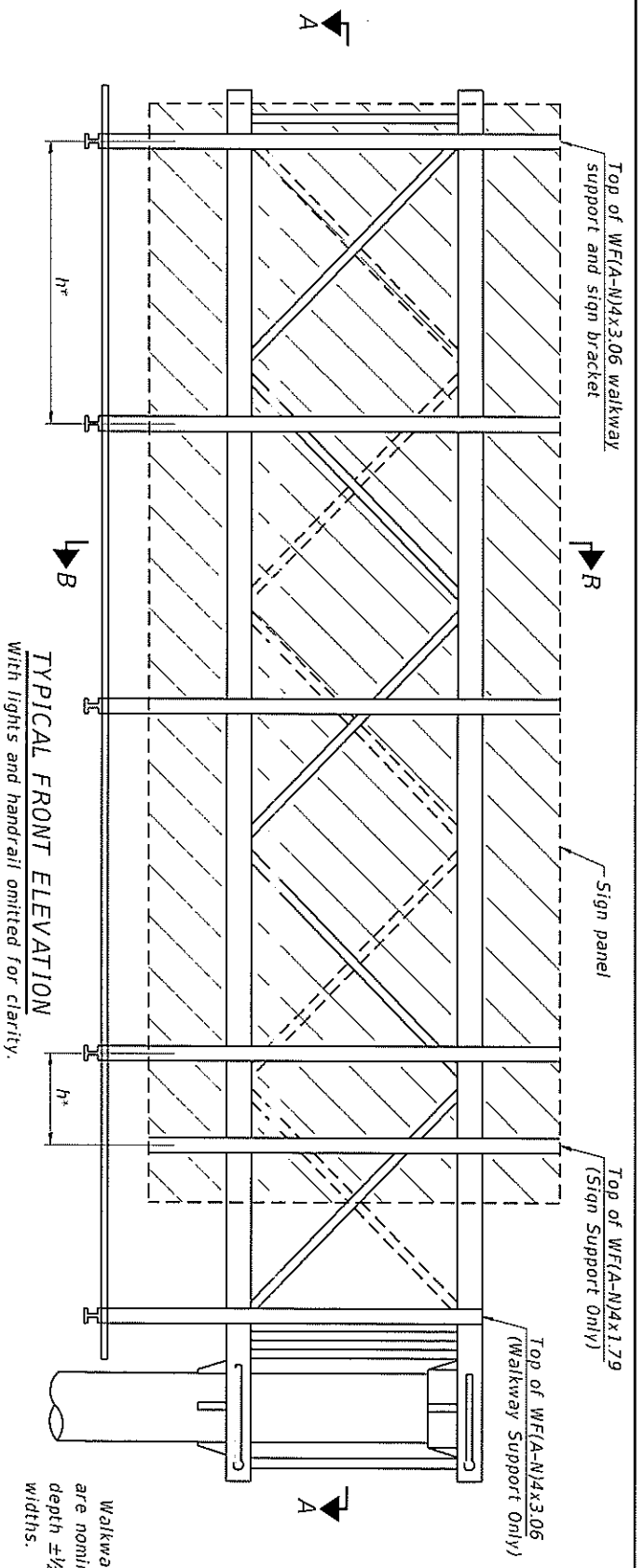
SCALE:	SHEET 4	OF 9	SHEETS	STA.	TO STA.
DATE	SECTION	COUNTY	TOTAL SHEETS		
57	OVD SIV STR REPL 18-31	KANKAKEE	20		13
			CONTRACT NO.		46469



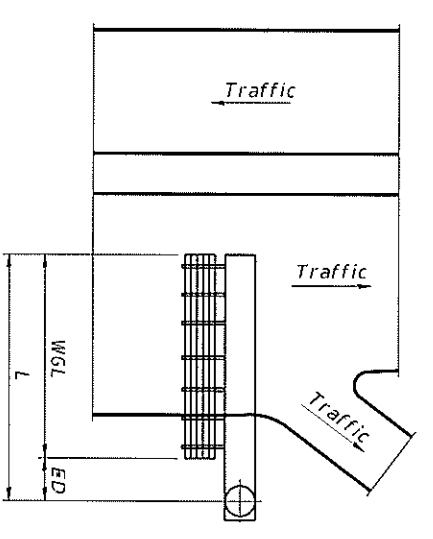
Structure Number	Station	H
3C0461057R315.1	292+10	21'-3"



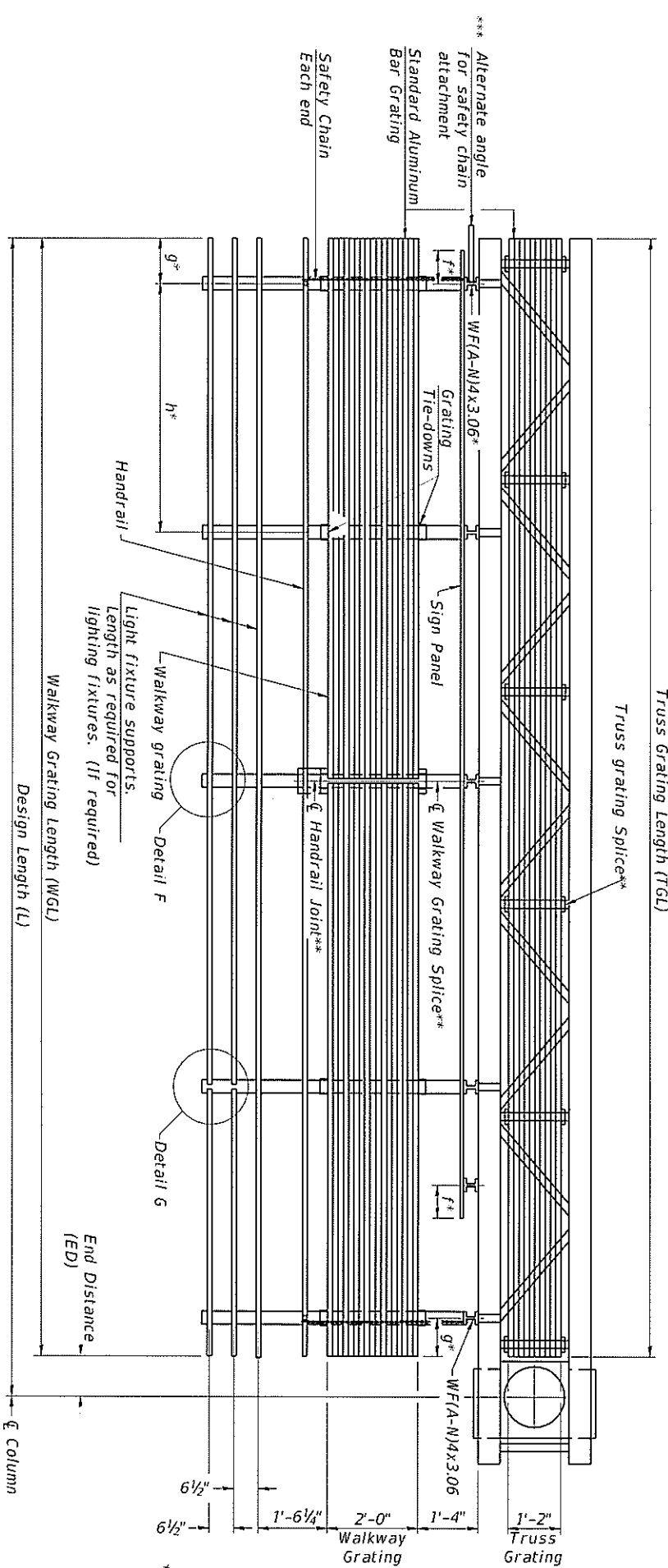
Note: "H" based on 15'-0" or actual sign height, whichever is greater.



Walkway and truss grating dimensions are nominal and may vary (width $\pm 1/2$ \"/>



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
3C0461057R315.1	292+10	24'-0"	16'-0"	38'-6"

Notes:
* Space walkway brackets WFLA-N14x3.06 and sign brackets WFLA-N14x1.79 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 of sign and/or walkway support brackets, WFLA-N14x1.79 or WFLA-N14x3.06)

*** 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 of Brackets Required
Greater Than 8'-0"	2
Less Than or Equal To 8'-0"	3
14'-0"	4
20'-0"	5
26'-0"	6

OSC-A-6
2-17-2017

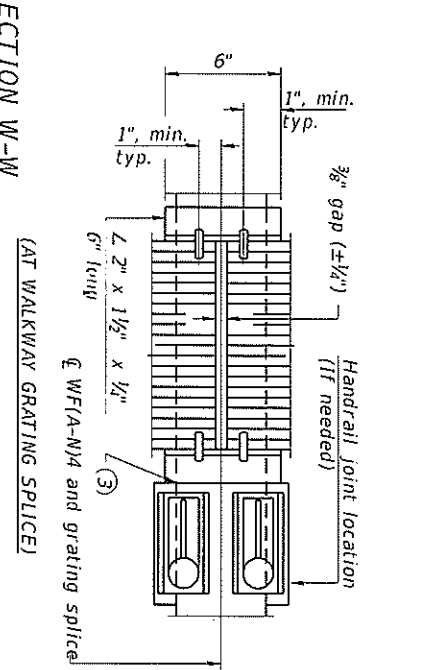
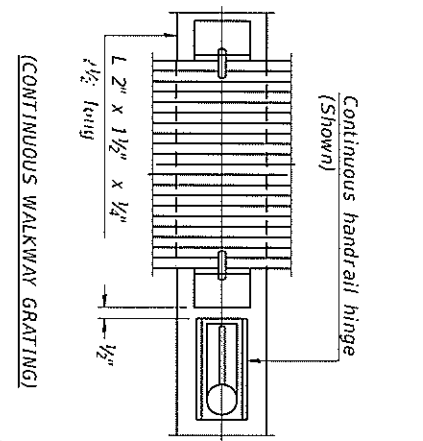
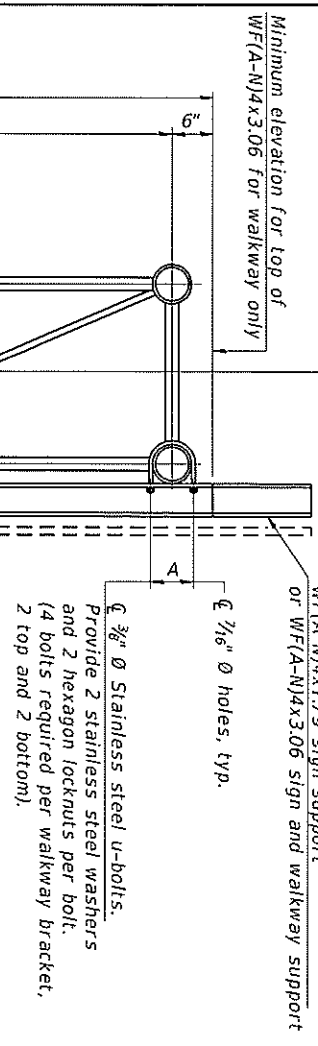
DESIGNED	BY	REVISION
USSF	WV	REVISION
WV	WV	REVISION
WV	WV	REVISION
WV	WV	REVISION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

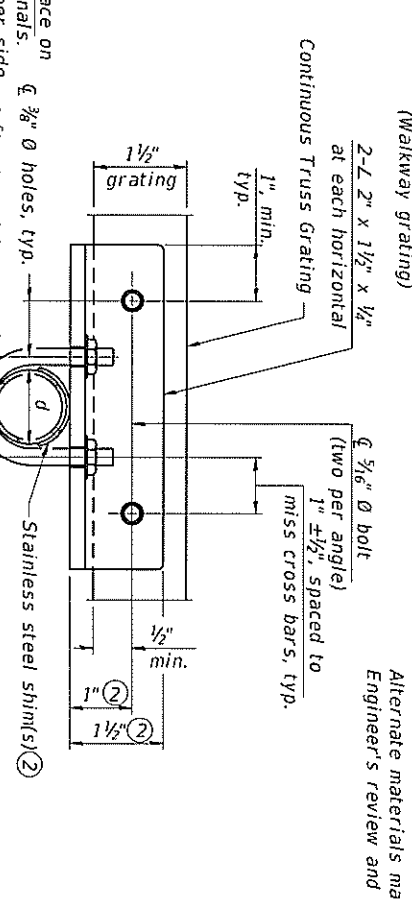
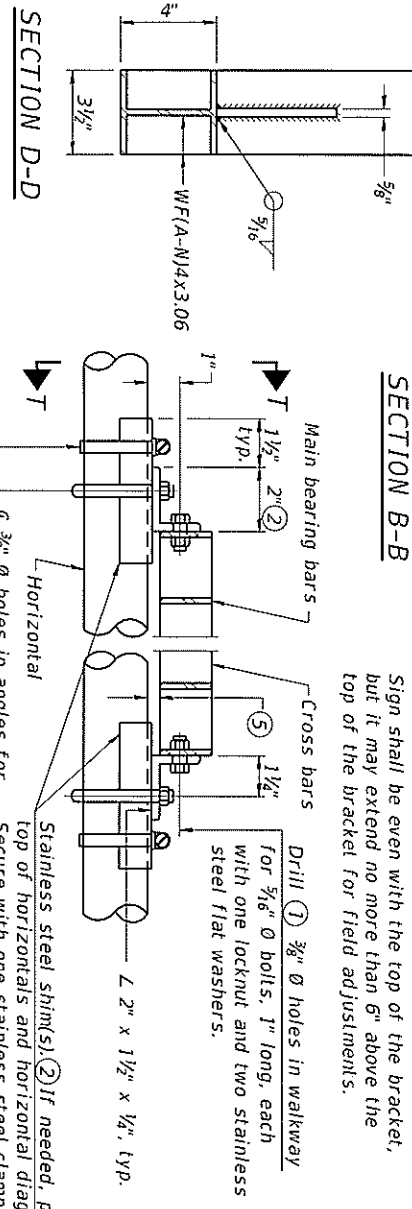
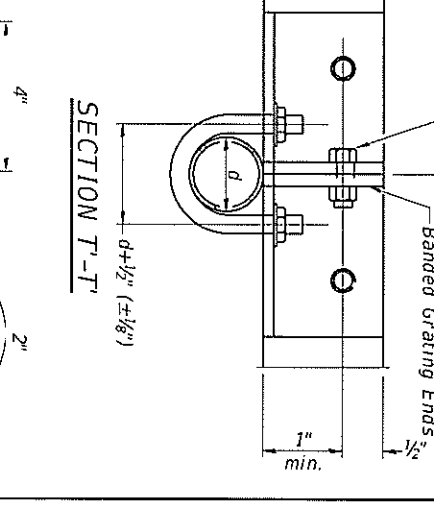
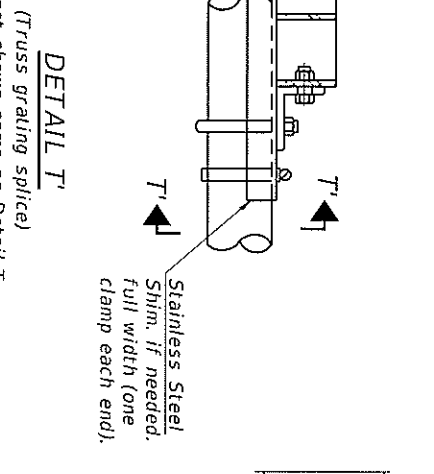
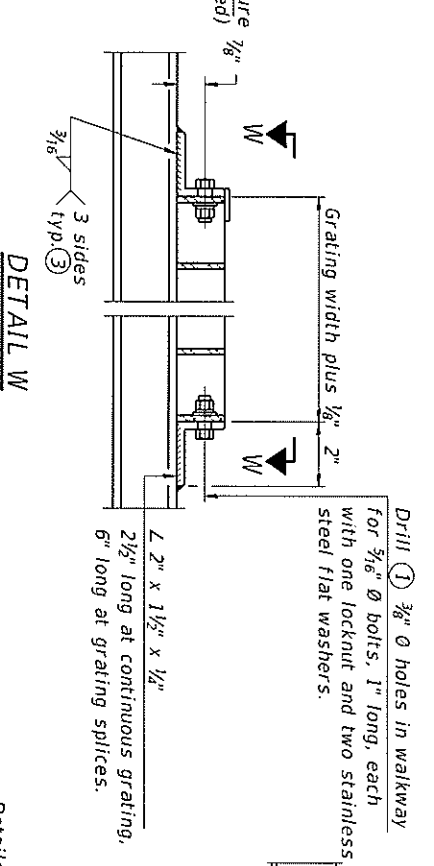
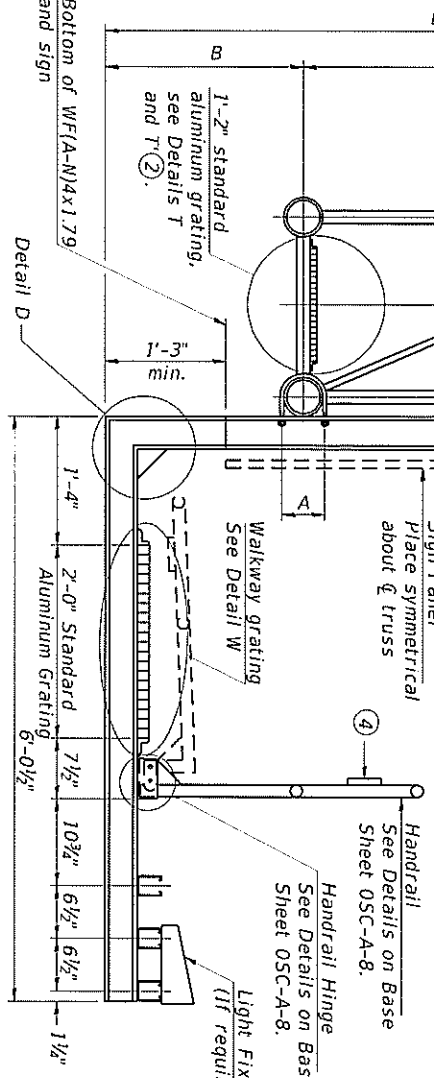
CANTILEVER SIGN STRUCTURES - ALUMINUM WALKWAY
DETAILS - ALUMINUM TRUSS & STEEL POST

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
57	OVD SIV STR REFL 18-31	KANKAKEE	20
	CONTRACT NO.		14

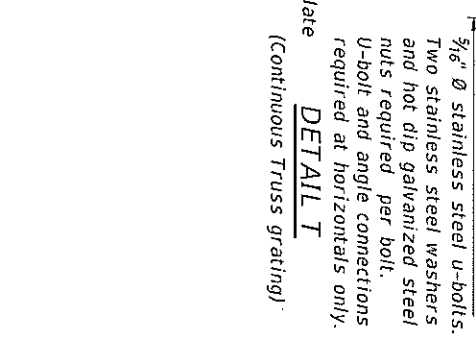
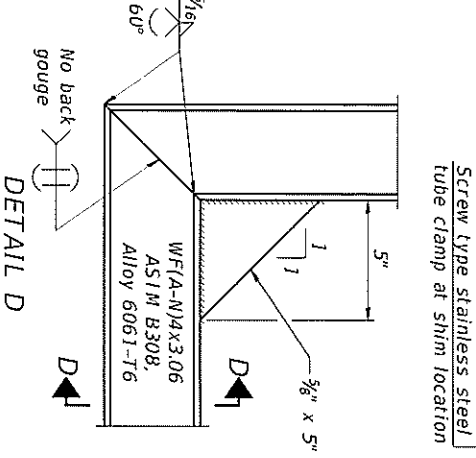
Truss & Truss Grating
 WFA-N14x1.79 sign support
 or WFA-N14x3.06 sign and walkway support



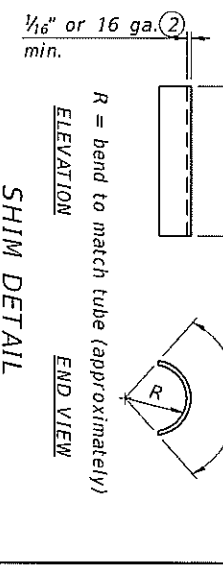
SPECIFICATIONS FOR STANDARD ALUMINUM GRATING
 Main Bearing Bars (MBB) shall be 3/8" x 1 1/2" on 1 3/8" centers and conform to ASTM B211 Alloy 6061-T6.
 Cross bars (CB) shall be 3/8" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.
 OR
 Aluminum Grating with modified "r" sections 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 3/8" centers.
 Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

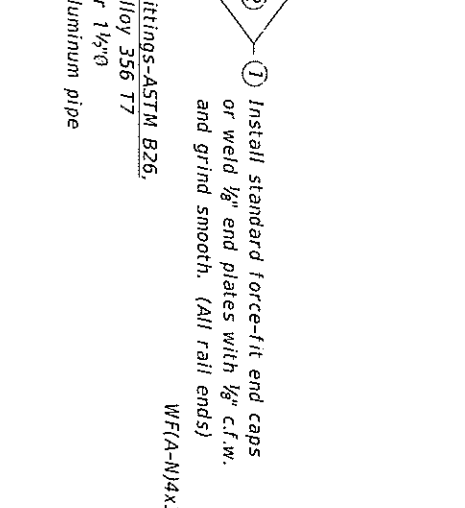
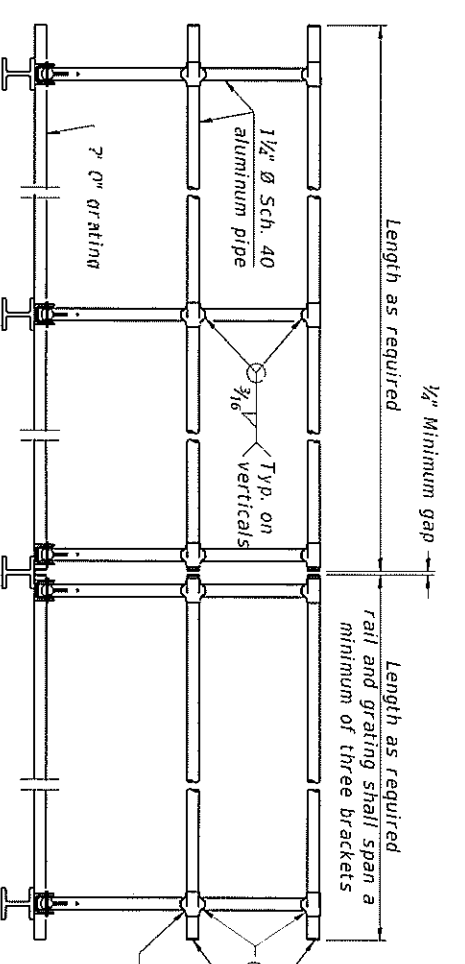
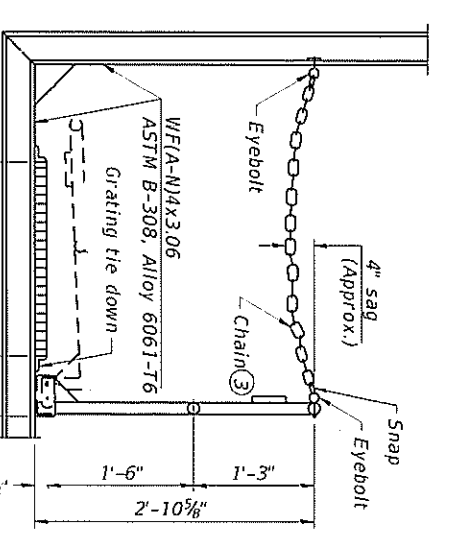


Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
 Stainless steel shims shall be placed as shown in Detail T. If needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
 If Handrail joint present, weld angle to WFA-N14 and 1/2" extension bars. (See Base Sheet OSC-A-8.)
 R 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
 Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
 Based on actual sign height. Ds, given on OSC-A-1.



Structure Number	Station	A	B	C	D
3C0461057R315.1	292+10	8 1/2"	3'-9"	7'-0"	11'-3"



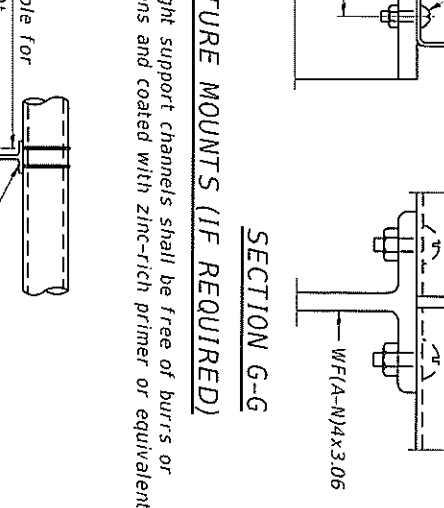
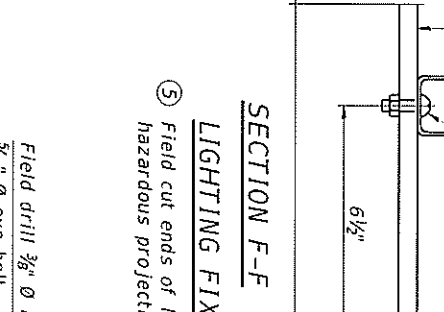
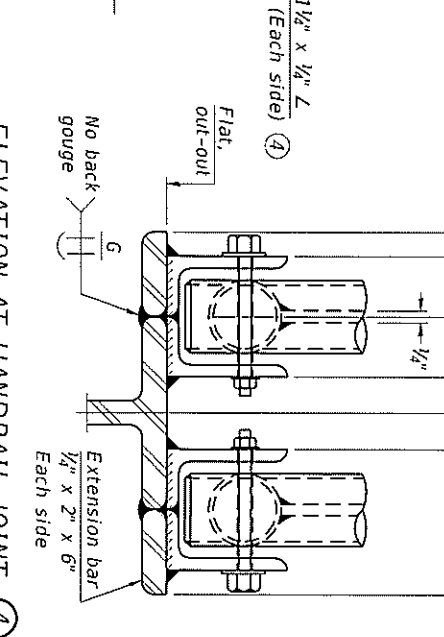
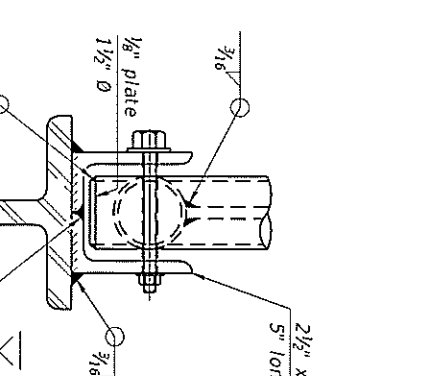
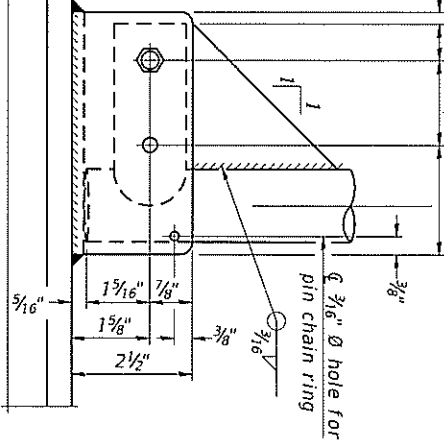
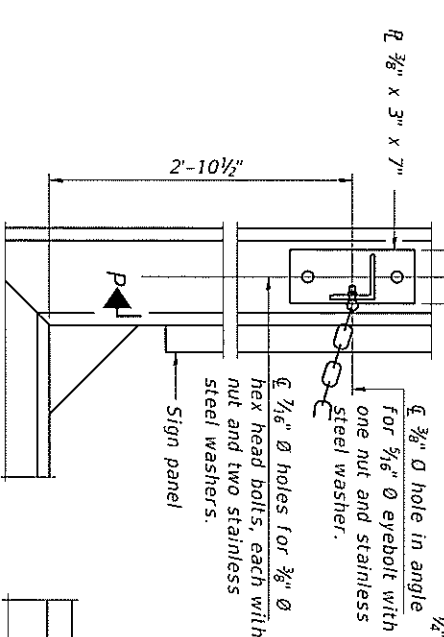


SIDE ELEVATION (Showing Safety Chain W/O Sign)

FRONT ELEVATION

HANDRAIL DETAILS

② Horizontal handrail member shall be continuous thru fitting. Provide 7/16" hole in fitting for 3/8" diameter bolt. Field drill 7/16" hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 3/8" eyebolts in 7/16" holes on top rail at ends only.)



ALTERNATE SAFETY CHAIN ATTACHMENT

SIDE ELEVATION

FRONT ELEVATION

ELEVATION AT HANDRAIL JOINT

SECTION F-F

SECTION G-G

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

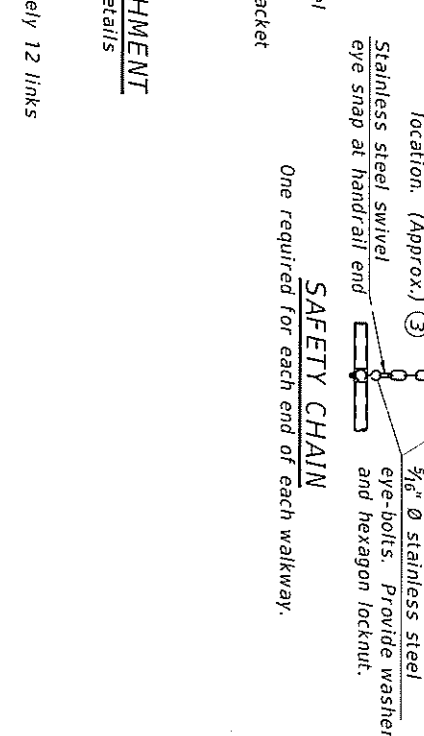
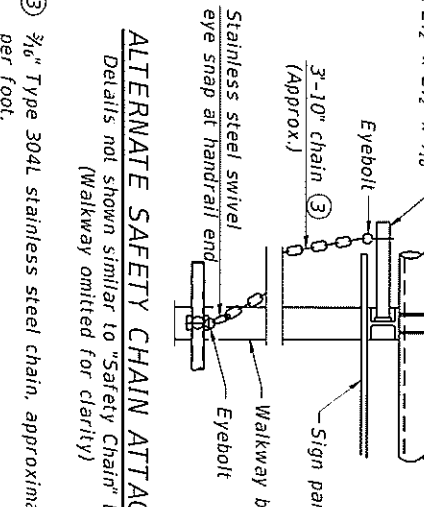
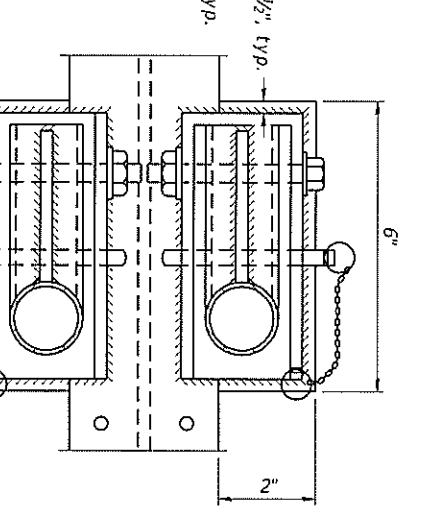
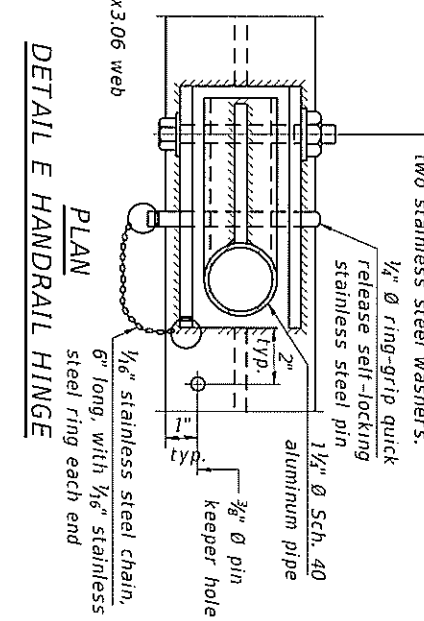
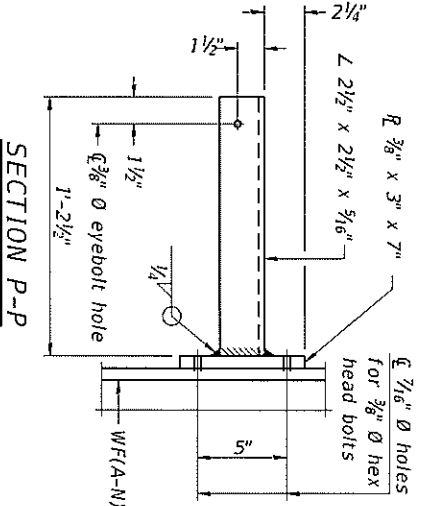
Drill and ream for 3/8" diameter bolt with two hexagon locknuts and two stainless steel washers.

Details not shown same as "ELEVATION" at right.

Details not shown same as "FRONT ELEVATION"

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

Field drill 3/8" diameter hole for 3/8" diameter eye-bolt (at approximately elevation of upper handrail pipe).



SECTION P-P

DETAIL E HANDRAIL HINGE

PLAN AT HANDRAIL JOINT

ALTERNATE SAFETY CHAIN ATTACHMENT

SAFETY CHAIN

③ 3/16" Type 304L stainless steel chain, approximately 12 links per foot.

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

OSC-A-8

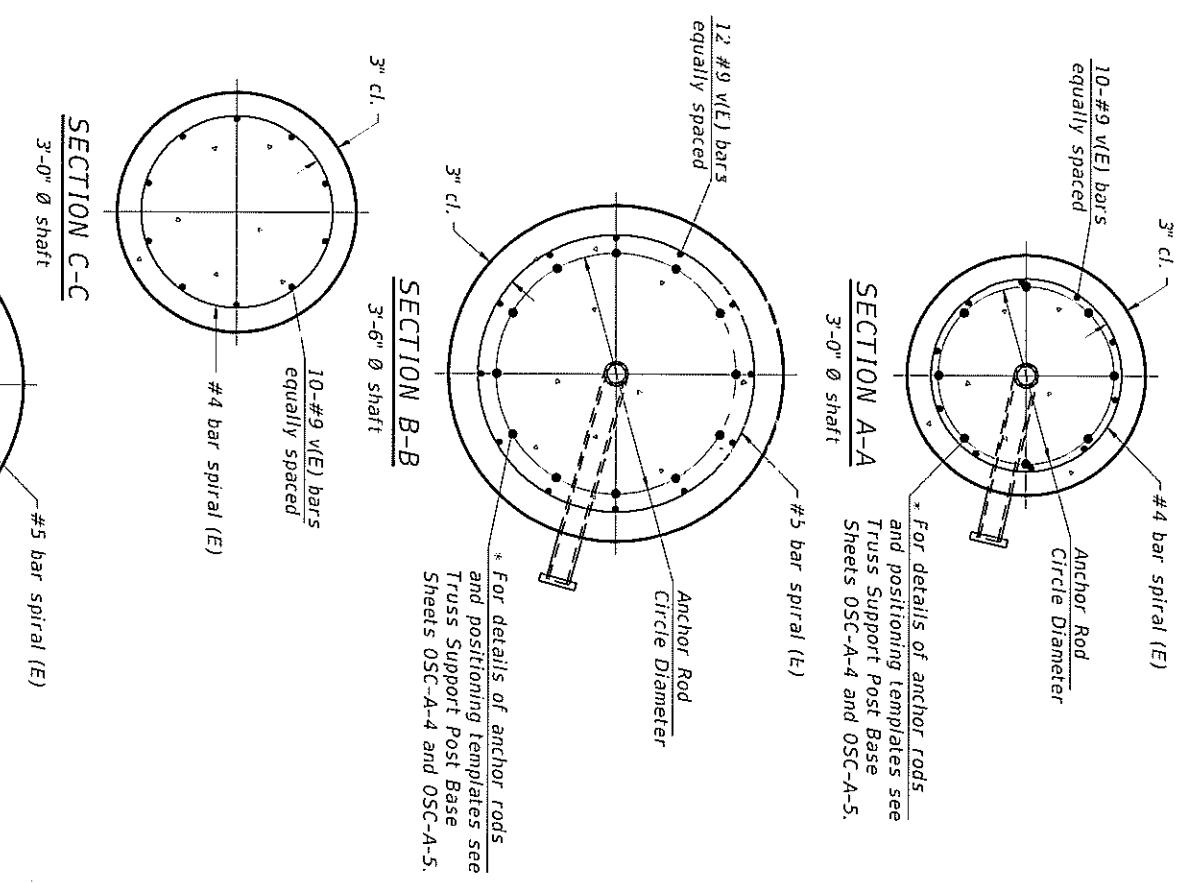
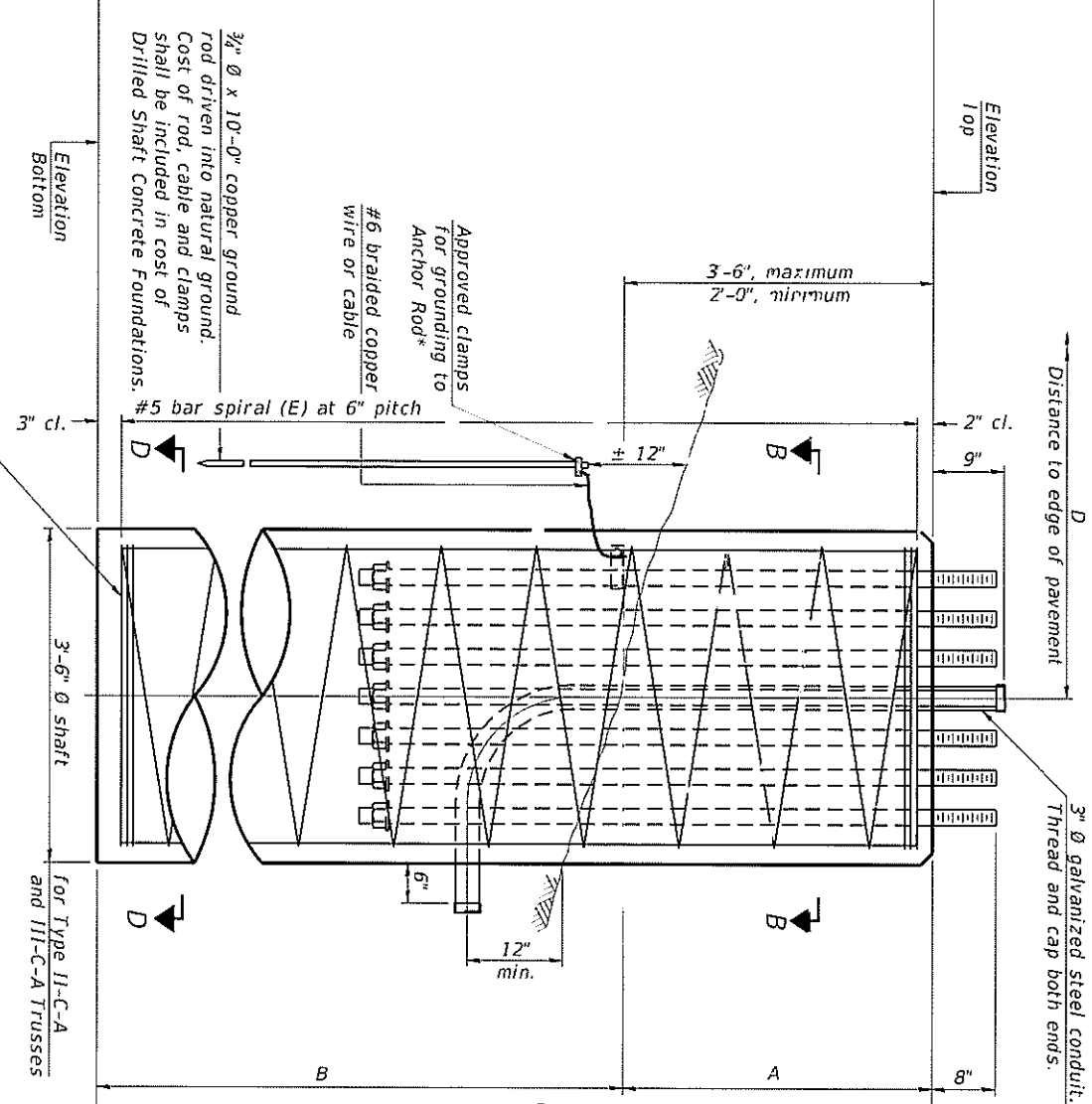
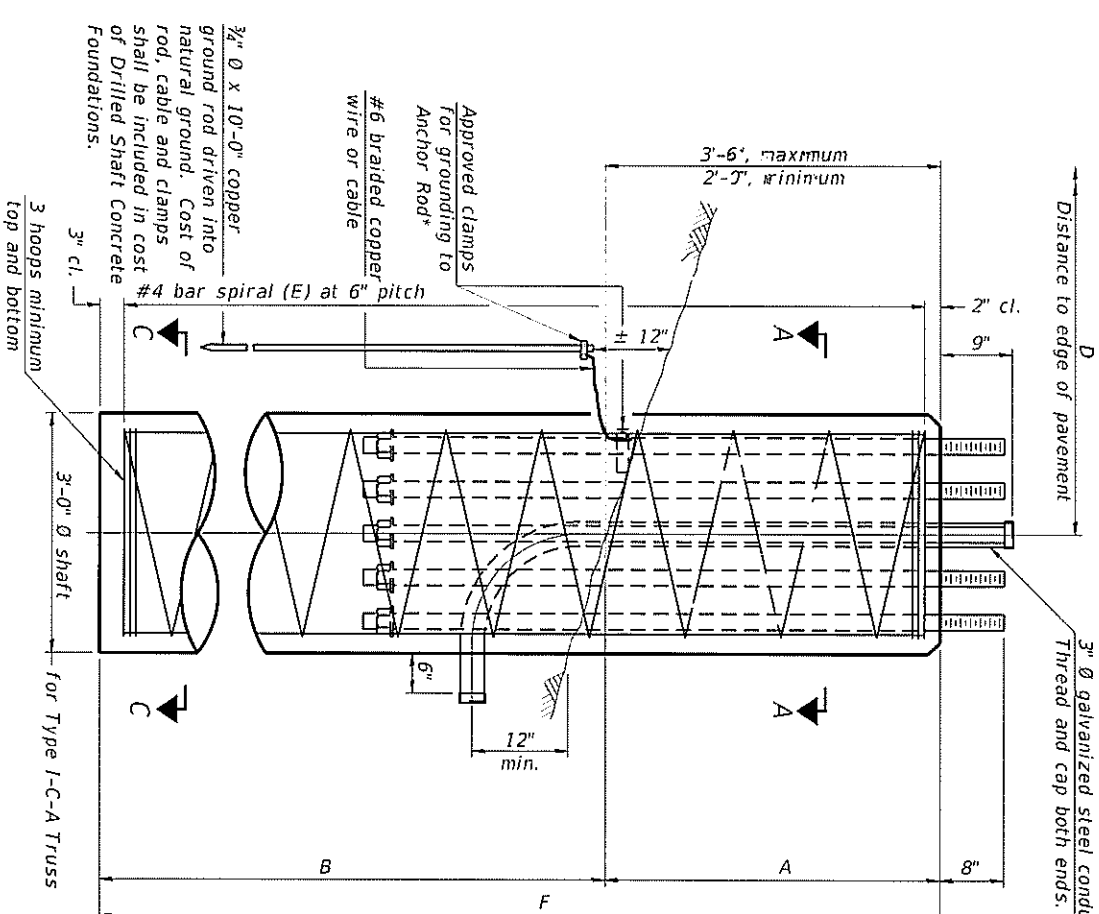
2-17-2017

USER NAME	DESIGNED	REV	REVISION
USER NAME	DESIGNED	REV	REVISION
DATE	DATE	DATE	DATE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE	SHEET	OF	SHEETS	STA.	TO STA.
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE	SHEET 7	OF	9	SHEETS	STA.

PROJECT	SECTION	COUNTY	TOTAL SHEETS
CANTILEVER SIGN STRUCTURES - HANDRAIL DETAILS	SECTION	COUNTY	TOTAL SHEETS
ALUMINUM TRUSS & STEEL POST	SECTION	COUNTY	TOTAL SHEETS

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



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

FOUNDATION DESIGN TABLE

Truss Type	Post Base Sheet	Maximum Cantilever Length (ft)	Maximum Total Sign Area (sq ft)	Shaft Diameter (in)	"B" Depth (ft)	Anchor Rods No.	Anchor Rods Diameter (in)	Anchor Rod Circle 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
III-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

FOUNDATION DATA TABLE

Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Qu	A	B	F	Class DS Concrete Cubic Yards
3C0461057R315.1	292+10	III-C-A	3'-6"	683.92	658.56	>4	2'-2"	23'-2 1/4"	25'-4 3/4"	9.0

OSC-A-9
 2-17-2017

MODIFY: Default
 FILE NAME: \\wbl0248BID\INTEC_illinois.gov\pvt\DOT\Documents\AIDOT_Offices\District_3\Projects\0346469\CADD\0346469-shi-details.dgn

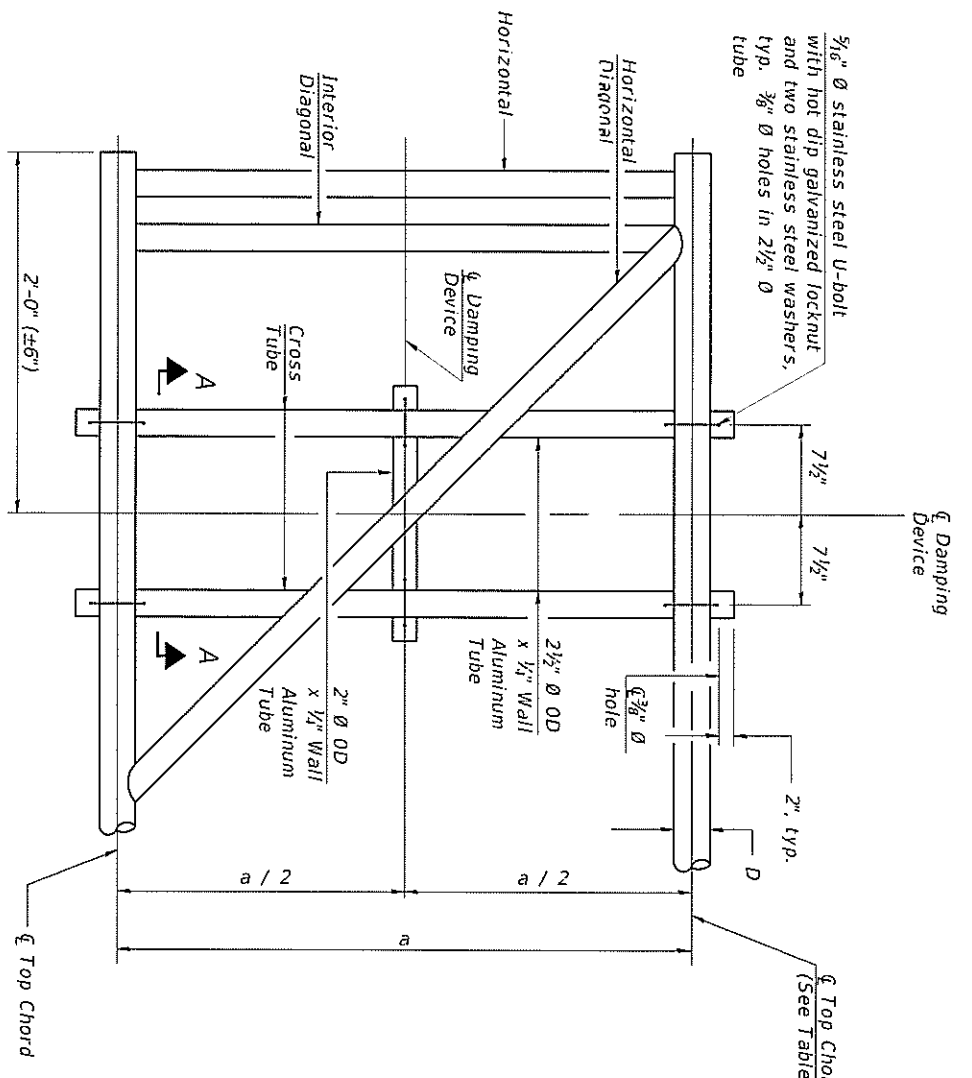
DESIGNED -	RVV	REVISION	
DRAWN -	RVV	REVISION	
CHECKED -	RVV	REVISION	
DATE -	8/9/2017	REVISION	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

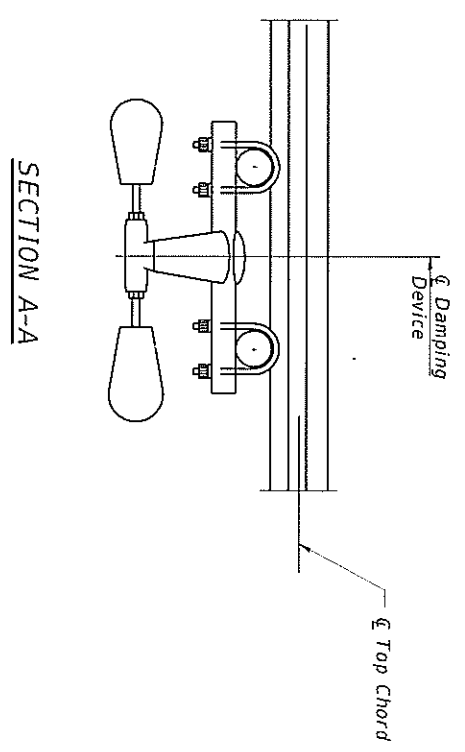
CANTILEVER SIGN STRUCTURES - DRILLED SHAFT
 ALUMINUM TRUSS & STEEL POST

SCALE: SHEET 8 OF 9 SHEETS STA. TO STA.

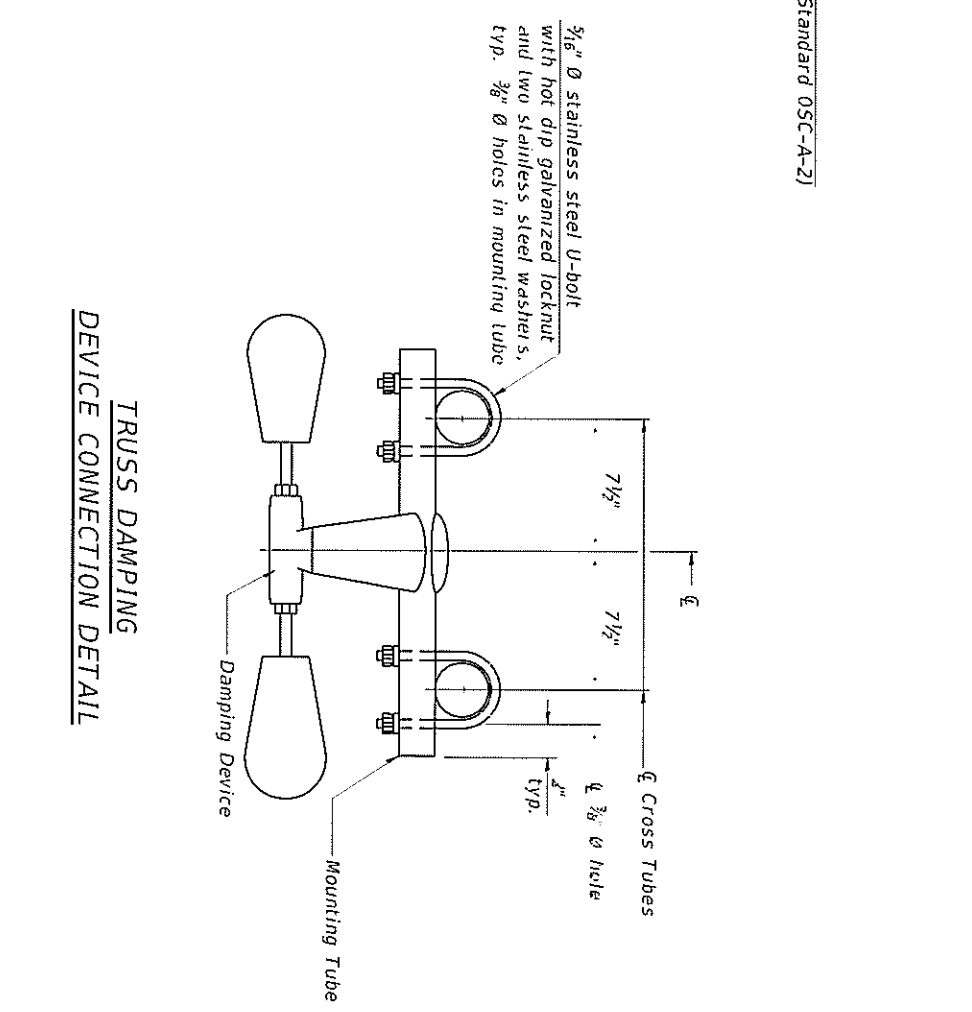
F.A.I. SECTION	COUNTY	TOTAL SHEET
57	KANKAKEE	20
OVD SIGN STR. REPL. 18-31		17
CONTRACT NO. 46469		



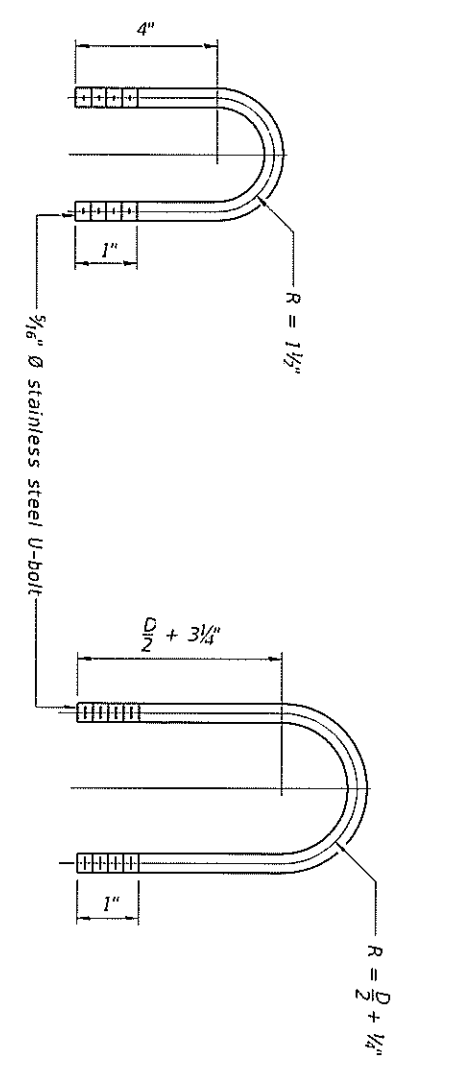
PLAN DETAIL



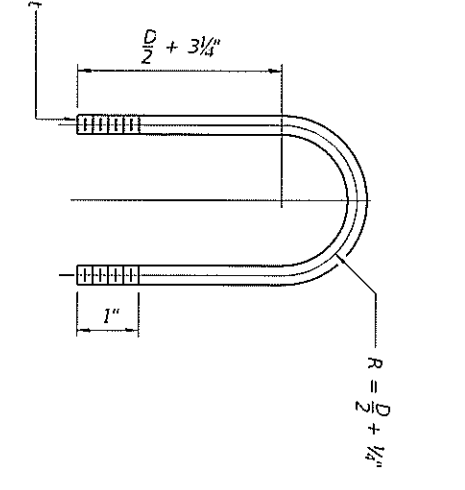
SECTION A-A



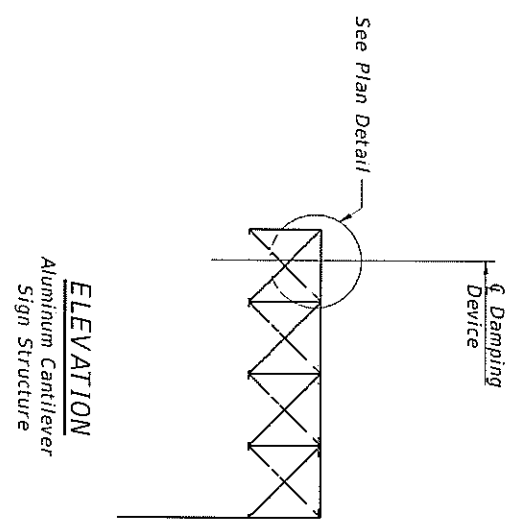
TRUSS DAMPING DEVICE CONNECTION DETAIL



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL (Typical)



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



ELEVATION Aluminum Cantilever Sign Structure

GENERAL NOTES
 Damper: One damper per truss. (3) lbs. Stockbridge-Type Aluminum-29" minimum between ends of weights)
 Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6

OSC-A-D

2-17-2017

DESIGNED	RVV	REVISION	
DRAWN	RVV	REVISION	
CHECKED	RVV	REVISION	
DATE	8/5/2017	REVISION	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURE
 DAMPING DEVICE

SCALE:	SHEET 9	OF 9	SHEETS	STA.	TO STA.
FAIL	SECTION	COUNTY	TOTAL SHEET		
57	OVD SIGN STR. REPL. 18-31	KANKAKEE	20	18	
	CONTRACT NO.		46469		

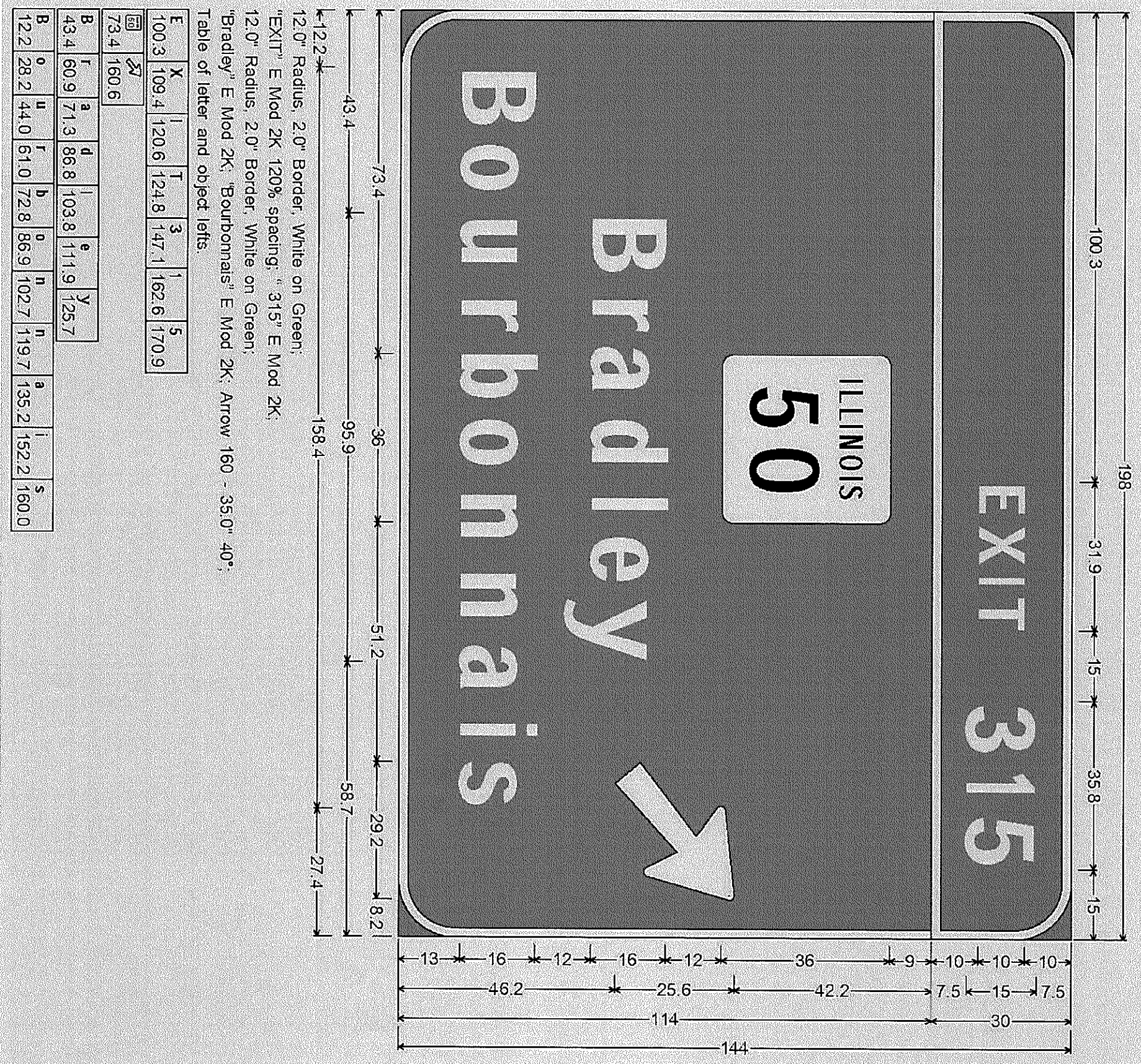
USFR IDATE	= wcdsr\rank4
DESIGNED	- RW/
DRAWN	- RW/
CHECKED	- RW/
DATE	- 8/5/2017

REVISION	-
REVISION	-
REVISION	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED SIGNAGE
 SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RITE	SECTION	COUNTY	TOTAL SHEET NO.
57	OVO SRM STR REHL 18-31	KANKAKEE	20
			19
		CONTRACT NO.	46469
		ILLINOIS FED AID PROJECT	





Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 8/23/17

LOGGED BY Larry Myers

0.1 miles South of IL 50 (Exit 351 Northbound off ramp at Interchange)

ROUTE FAI 57 (I-57)
SECTION D-3 OVD SIN STR REPL

DESCRIPTION 18-31
LOCATION SE 1/4, SEC. 16, TWP. 34N, RNG. 12E, 3rd PM,
Latitude 41.185579, Longitude -87.845528

COUNTY Kankakee DRILLING METHOD 11 HAMMER TYPE CME Automatic

STRUCT. NO. 3C0461057R315.1
Station 292+35

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

BORING NO. 1
Station 292+35

Groundwater Elev.: 659.1 ft
First Encounter Upon Completion Dry ft
After _____ Hrs.

Offset 77.4 ft RL Centerline of NBL
Ground Surface Elev. 676.56 ft

Augered Brown Silty Clay Loam Till - Fall

674.06

Soft Gray Silty Clay Loam / Silty Loam Till with Large Limestone Gravel Pieces - Fall

671.56

Very Stiff to Hard Brown & Gray Silty Clay Loam Till

664.56

Loose Brown Loamy Fine Sand to Coarse Limestone / Dolostone Gravel

660.56

Very Dense Buff to Tan Limestone / Dolostone Gravel in Silt Matrix - Weathered & Remworked Rock Surface

658.56

Auger Refusal @ 18.0' End of Boring

SOIL BORING LOG OVERHEAD SIGN MP135.1 NB (PI) IL DOT DISTRICT 3

DEPTH (ft)	SOIL TYPE	TESTS	REMARKS
0 - 5	Augered Brown Silty Clay Loam Till - Fall	3	
5 - 7	Soft Gray Silty Clay Loam / Silty Loam Till with Large Limestone Gravel Pieces - Fall	5	
7 - 11	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
11 - 12	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	8	Rock in Shoe
12 - 17	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
17 - 18	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	8	
18 - 20	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	12	
20 - 21	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	8	
21 - 22	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	7	
22 - 23	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
23 - 24	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
24 - 25	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
25 - 26	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
26 - 27	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
27 - 28	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	8	
28 - 29	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	7	
29 - 30	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
30 - 31	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
31 - 32	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
32 - 33	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
33 - 34	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
34 - 35	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
35 - 36	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
36 - 37	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
37 - 38	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
38 - 39	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
39 - 40	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
40 - 41	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
41 - 42	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
42 - 43	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
43 - 44	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
44 - 45	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
45 - 46	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
46 - 47	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
47 - 48	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
48 - 49	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
49 - 50	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
50 - 51	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
51 - 52	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
52 - 53	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
53 - 54	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
54 - 55	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
55 - 56	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
56 - 57	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
57 - 58	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
58 - 59	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
59 - 60	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
60 - 61	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
61 - 62	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
62 - 63	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
63 - 64	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
64 - 65	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
65 - 66	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
66 - 67	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
67 - 68	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
68 - 69	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
69 - 70	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
70 - 71	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
71 - 72	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
72 - 73	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
73 - 74	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
74 - 75	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
75 - 76	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
76 - 77	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
77 - 78	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
78 - 79	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
79 - 80	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
80 - 81	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
81 - 82	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
82 - 83	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
83 - 84	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
84 - 85	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
85 - 86	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
86 - 87	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
87 - 88	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
88 - 89	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
89 - 90	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
90 - 91	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
91 - 92	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
92 - 93	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
93 - 94	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
94 - 95	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
95 - 96	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
96 - 97	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
97 - 98	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	
98 - 99	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	5	
99 - 100	Very Stiff to Hard Brown & Gray Silty Clay Loam Till	3	

The Unconfined Compressive Strength (UCS) Failure Mode is Indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS form 137 (Rev. 8-99)

DESIGNED	RW	REVISION	
DRAWN	RW	CHECKED	
DATE	8/5/2017	REVISION	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
57	OVD SIN STR REPL 18-31	KANKAKEE	20
			20
		CONTRACT NO.	46469