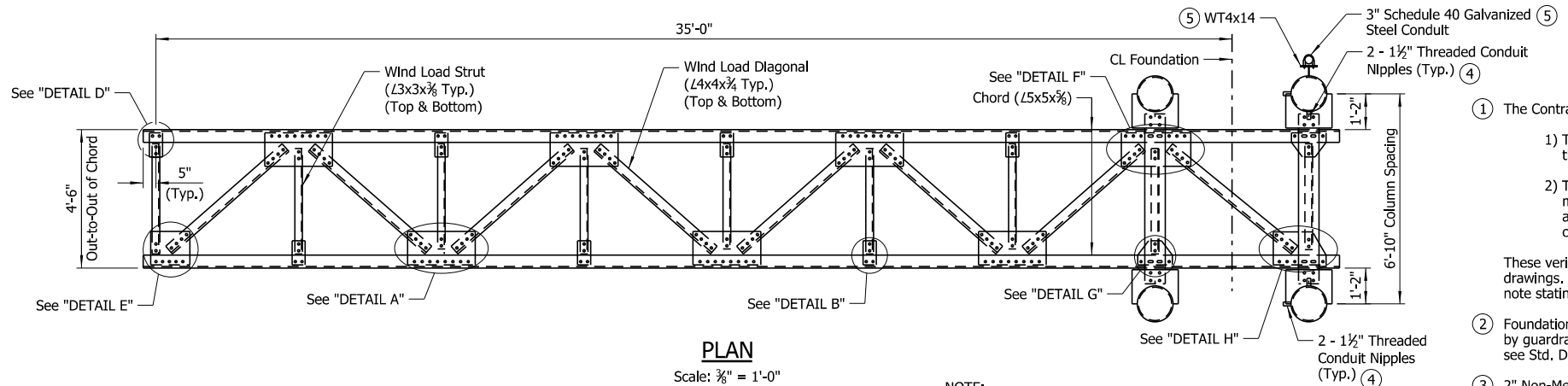


DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
CANTILEVER SIGN STR. (35') - 55090A						



PLAN

Scale: $\frac{3}{8}$ " = 1'-0"

NOTE:
Refer to Sign Layout Sheets for Dimension "X"
and Foundation Type required for each
structure.

NOTE:
WT4x14 member at top of
column not shown in
"ELEVATION - FOUNDATION
A1" for clarity.

- The Contractor shall make field measurements to determine the following:
 - To verify that dimension "X" is sufficient to center the sign over the intended lane while maintaining minimum horizontal clearances.
 - To determine the column height "H" required to maintain the minimum vertical clearance with the centerline of the sign located at the CL of the truss. If the structure height "H" exceeds 30'-0", contact the Engineer.

These verifications and measurements are required prior to submittal of the shop drawings. The column height "H" shall be shown on the shop drawings with a note stating that the Contractor has made the required field measurements.

- Foundation A1 allowed only when foundation is outside clear zone or is protected by guardrail or barrier. For alternate drilled shaft foundation (Foundation A2), see Std. Dwg. 55090F.
- 2" Non-Metallic Conduit (Schedule 80) with 16" Min. Bend Radius (2 Conduits per Outside Column). If cabling in the conduit is not required per Electrical and/or ITS plans, the end of conduit in the ground shall be capped for future use with a manufactured water-tight cap.
- Threaded Conduit Nipples shall be fitted with standard plugs until conduit is installed.
- See "SECTION U-U" on Std. Dwg. 55090C. WT4x14 always required, 3" Conduit and Clamping U-Bolts only required when necessary to support ITS equipment or as directed by the Engineer. See ITS Plans.

NOTES:
For "VIEW B-B" and "DETAIL J" thru "DETAIL M",
see Std. Dwg. 55090B.

For "DETAIL A" thru "DETAIL H", see Std. Dwg. 55090C.

Final Camber
After Erection

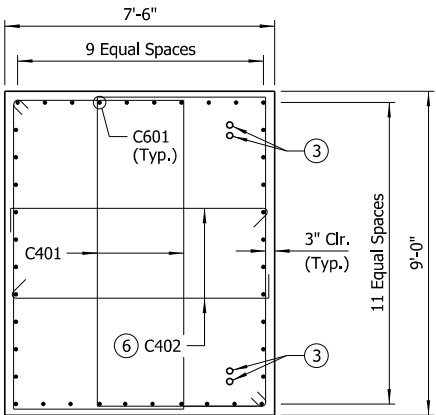
Level Line

LEGEND

NS = Near Side
FS = Far Side

TRUSS CAMBER DIAGRAM

No Scale

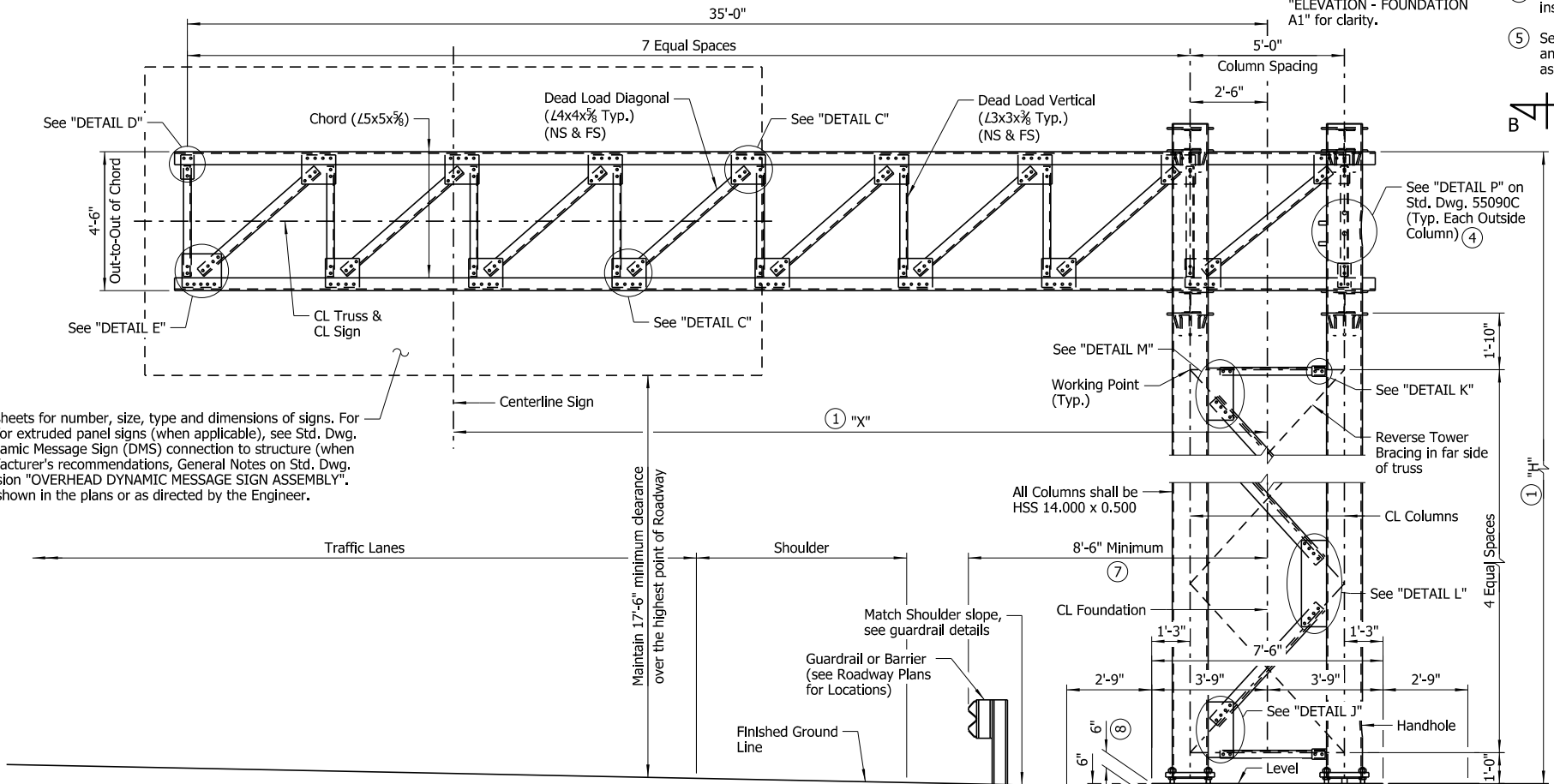


SECTION A-A

Scale: $\frac{3}{8}$ " = 1'-0"

- Alternate C402 ties end for end at each layer of reinforcing.

See sign details and plan sheets for number, size, type and dimensions of signs. For details of hanger spacing for extruded panel signs (when applicable), see Std. Dwg. 55090E. For details of Dynamic Message Sign (DMS) connection to structure (when applicable), refer to Manufacturer's recommendations, General Notes on Std. Dwg. 55090E, and Special Provision "OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY". Signs are to be placed as shown in the plans or as directed by the Engineer.



① "X"

① "H"

④ Equal Spaces

⑦

⑧

③

③

③

BAR LIST - FOUNDATION A1				BAR BENDING DIAGRAMS	
MARK	NO. REQ'D	LENGTH	P.D.		
C401	8	27'-2"	3"		
C402	8	8'-0"	3"		
C601	40	7'-2"	4 1/2"		
F401	13	17'-6"	Str.		
F402	18	12'-6"	Str.		
F601	25	17'-6"	Str.		
F602	35	12'-6"	Str.		

- Minimum dimension when guardrail is present. See Sign Layout Sheets and/or ITS Plans for actual dimension for each structure.
- Dimension from top of pedestal to Finished Ground Line shall be maintained along the perimeter of the pedestal.

ELEVATION - FOUNDATION A1

No Scale

**APPROXIMATE QUANTITIES FOR FOUNDATION A1
(FOR INFORMATION ONLY)**

CLASS S CONCRETE (CU. YDS.)	REINFORCING STEEL (LBS.)	EXCAVATION (CU. YDS.)
36.00	2,240	81

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN
DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

**SHEET 1 OF 6
STANDARD DETAILS OF 35' STEEL
CANTILEVER SIGN STRUCTURE
ARKANSAS STATE HIGHWAY COMMISSION**

LITTLE ROCK, ARK.

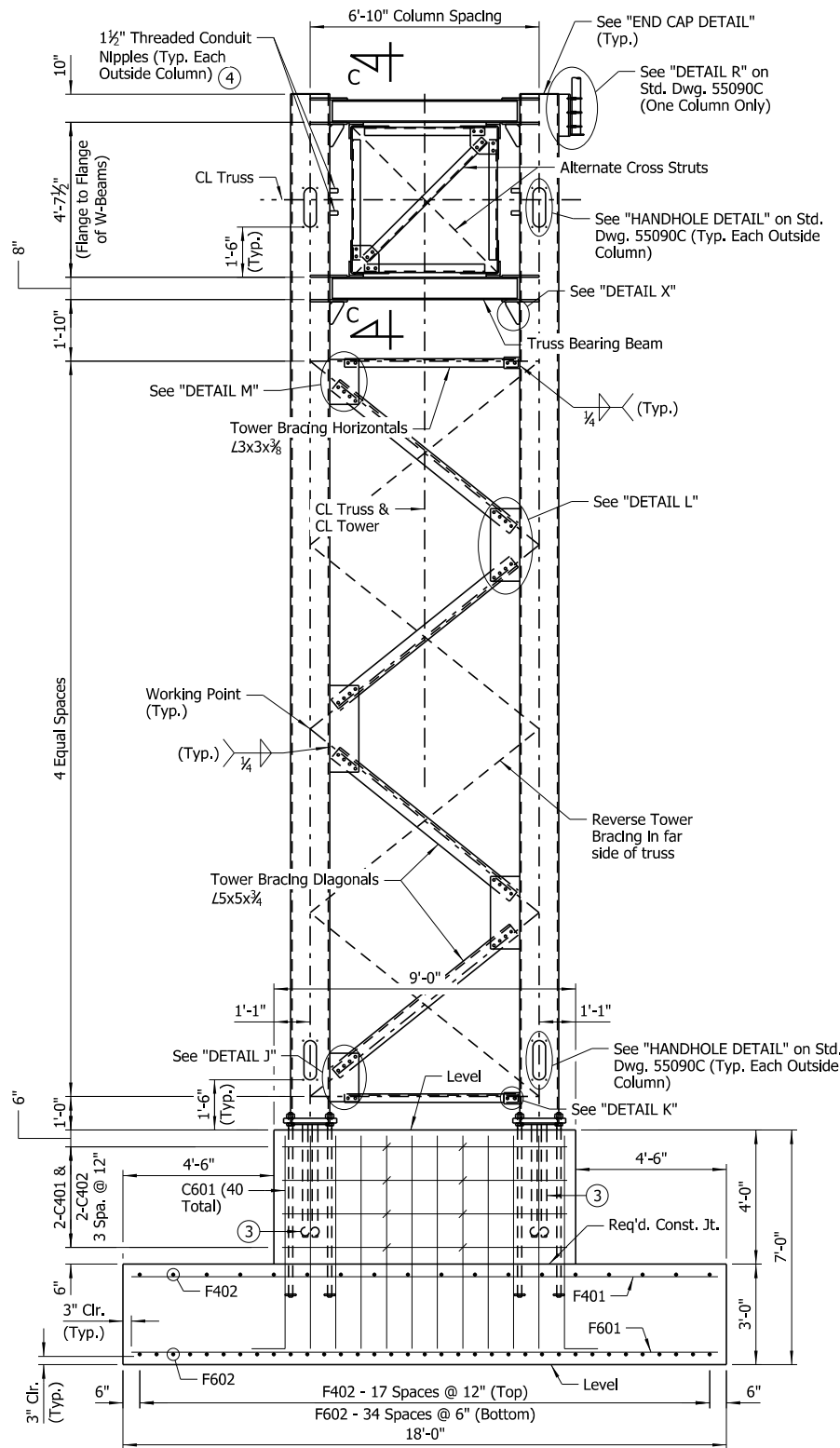
DRAWN BY: CSW DATE: DEC. 2022 FILENAME: b55090a.dgn
CHECKED BY: ABH DATE: FEB. 2023 SCALE: As Shown
DESIGNED BY: STD. DATE: -

DRAWING NO. 55090A

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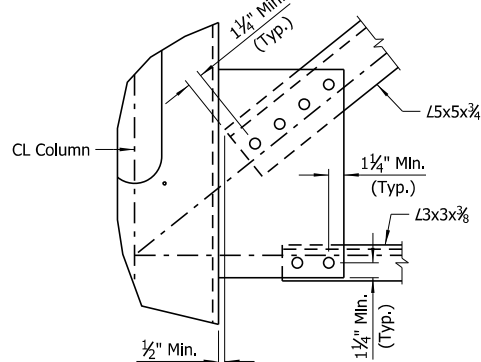
Scales shown are for full size 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
CANTILEVER SIGN STR. (35') - 55090B						



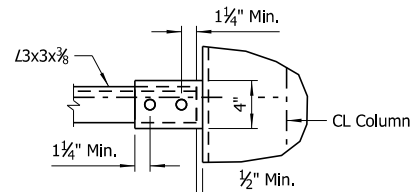
VIEW B-B
(Foundation A1)
No Scale

- 1 Bolts shall be 7/8"ø. Provide 1 1/16" x 2" slotted hole in gusset plate and chord angle. Use plate washer on gusset plate side. Provide 1 3/16"ø holes in 3/4" shim plate and top or bottom beam flanges as required.
- 2 Bolts shall be 7/8"ø. Provide 1 1/16"ø holes at top and bottom beam flanges and connection plates.
- 3 2" Non-Metallic Conduit (Schedule 80) (2 Conduits per Outside Column), An insulated bushing shall be installed at the top end of each conduit.
- 4 Threaded Conduit Nipples shall be fitted with standard plugs until conduit is installed.



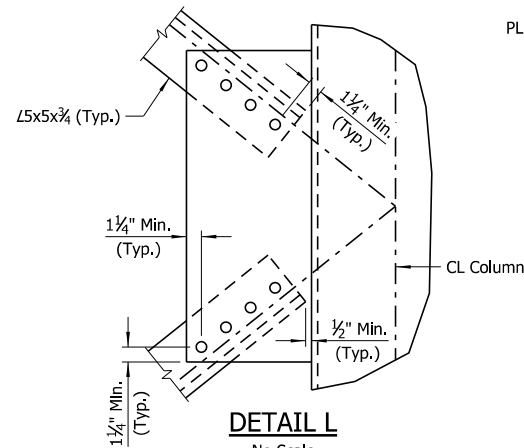
DETAIL J

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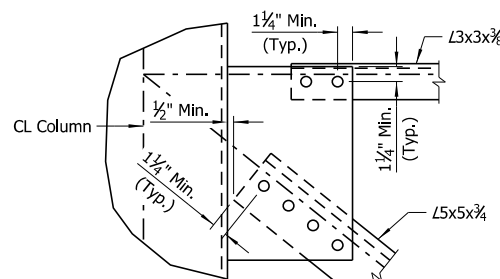
DETAIL K

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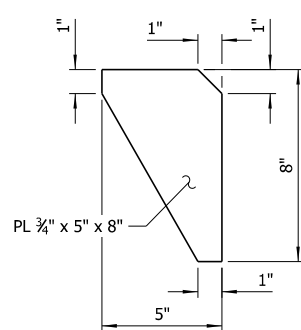
DETAIL L

No Scale



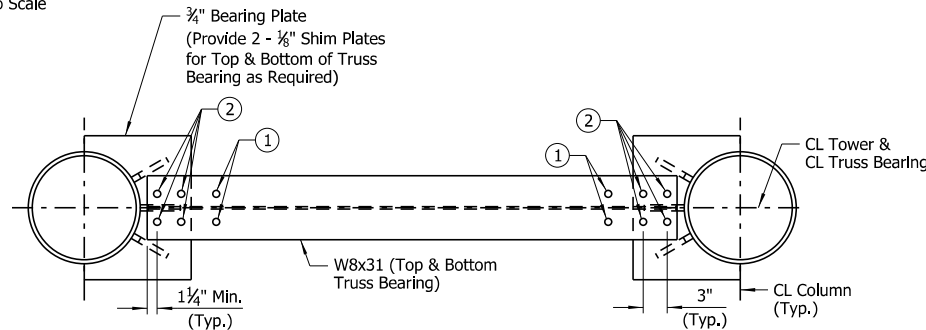
DETAIL M

No Scale



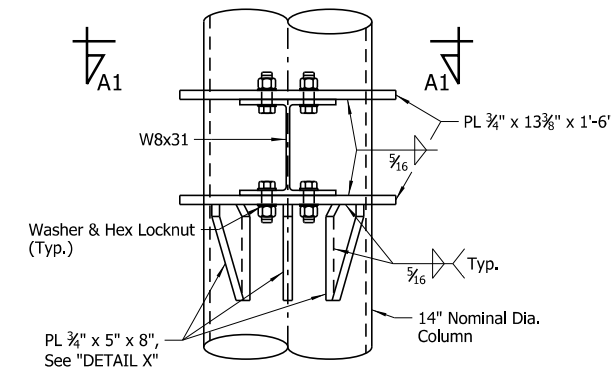
DETAIL X

Scale: 3" = 1'-0"



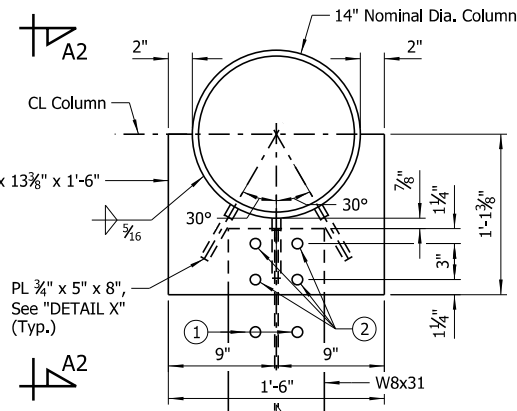
PLAN AT TRUSS BEARING

Scale: 1" = 1'-0"



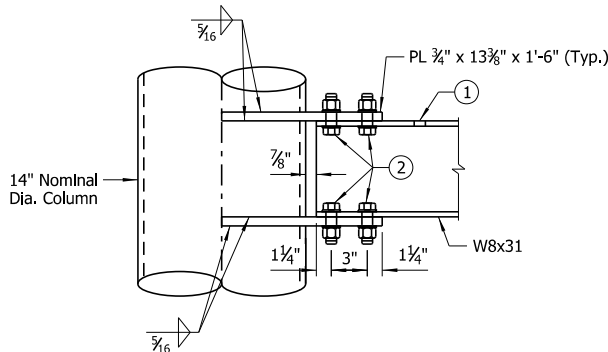
DETAIL - TRUSS BEARING SUPPORT

Scale: 1 1/2" = 1'-0"



VIEW A1-A1

Scale: 1 1/2" = 1'-0"



VIEW A2-A2

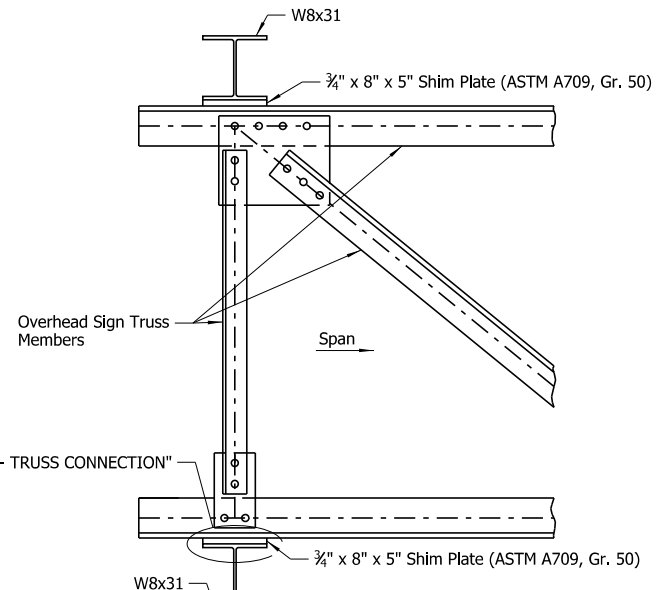
Scale: 1 1/2" = 1'-0"

(3/4" x 5" x 8" Plate not shown for clarity)

NOTE:
Unless noted otherwise, thickness of all Gusset Plates shall be 3/8".

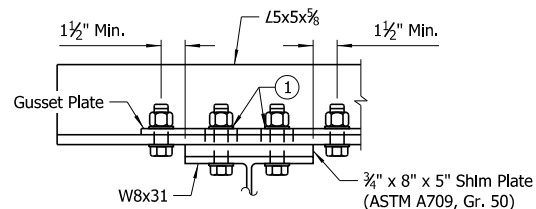
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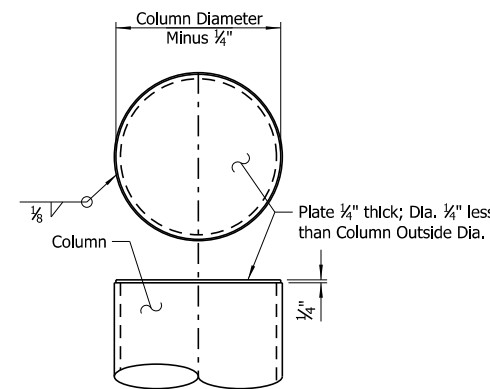
VIEW C-C

No Scale



DETAIL - TRUSS CONNECTION

No Scale



END CAP DETAIL

Scale: 1 1/2" = 1'-0"

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

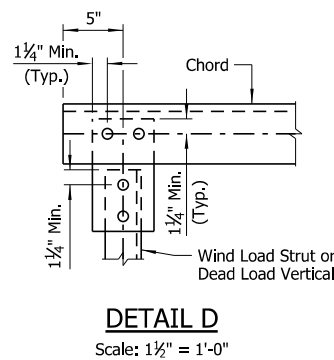
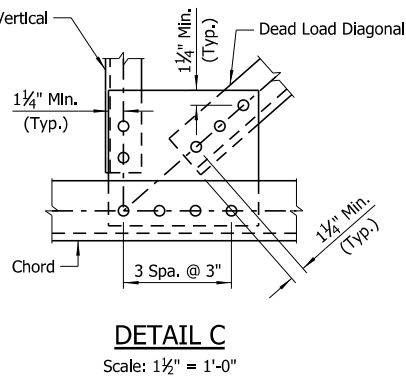
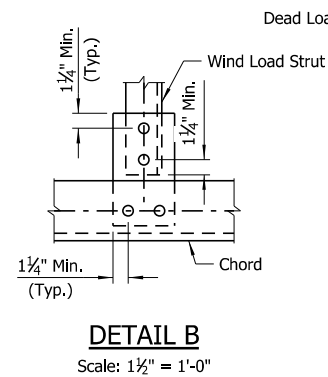
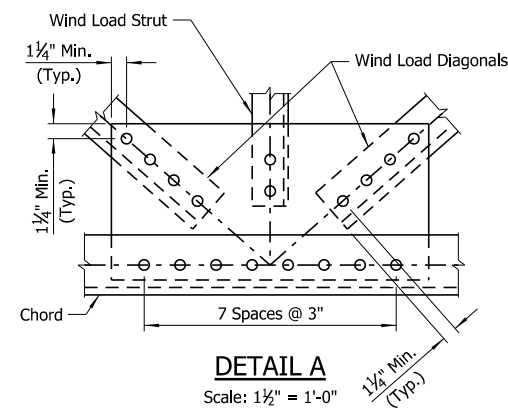
SHEET 2 OF 6
STANDARD DETAILS OF 35' STEEL
CANTILEVER SIGN STRUCTURE
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

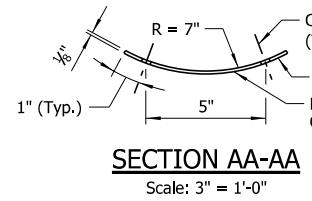
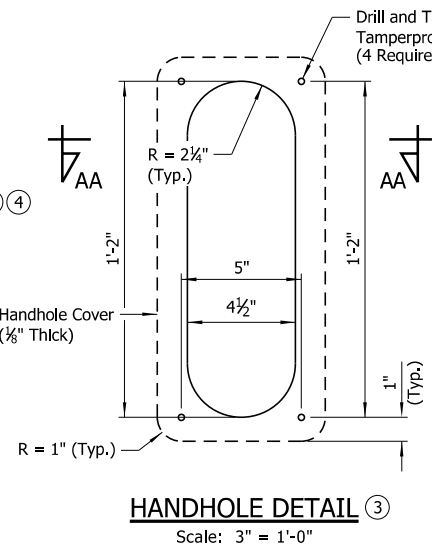
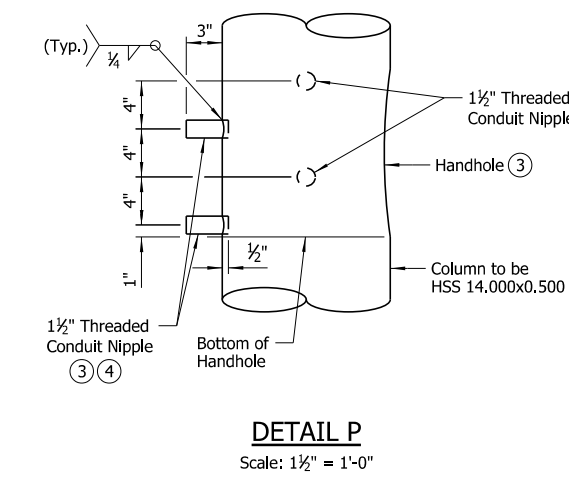
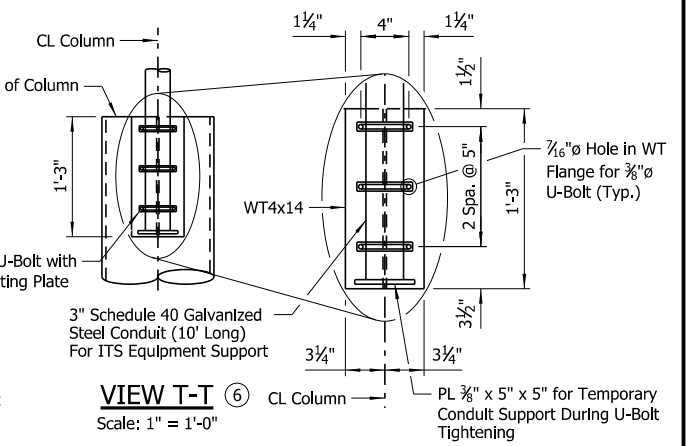
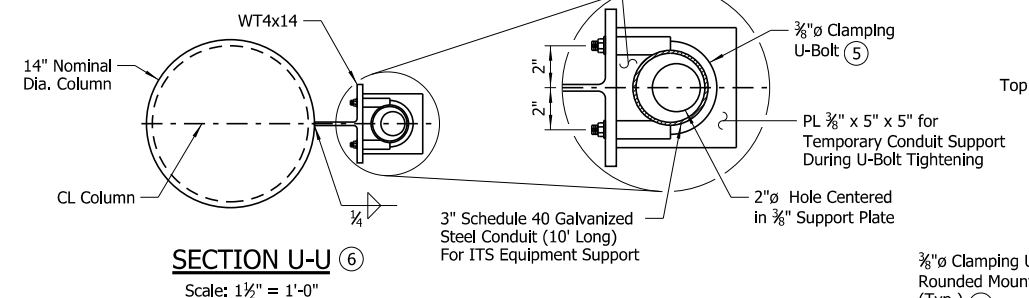
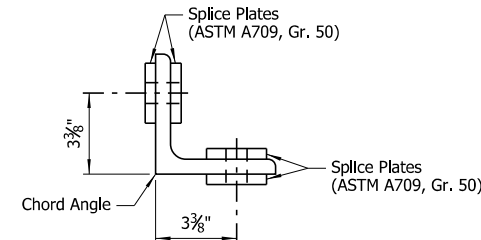
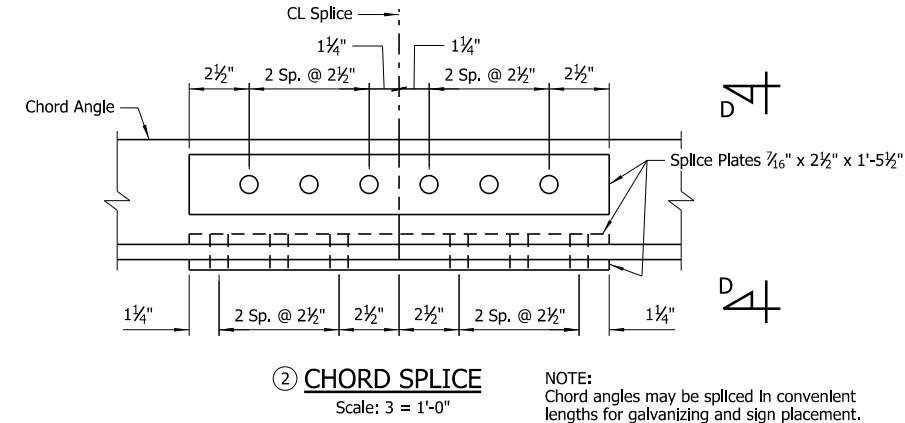
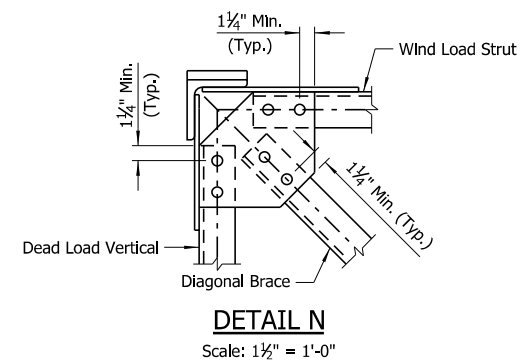
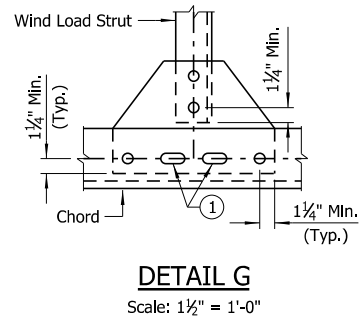
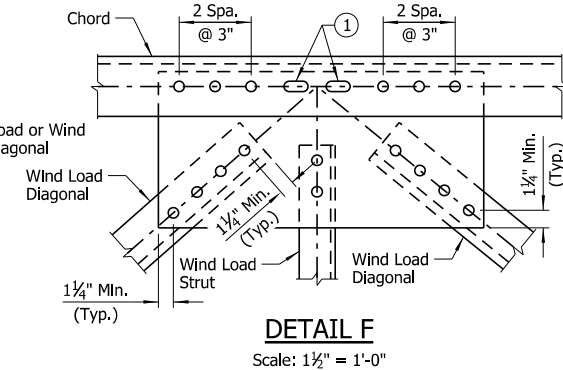
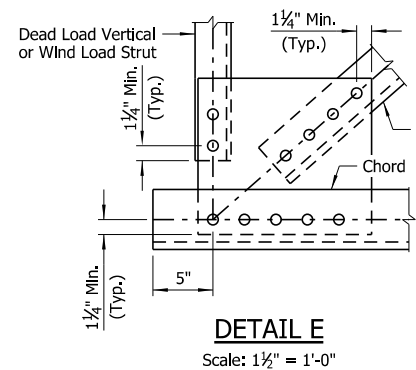
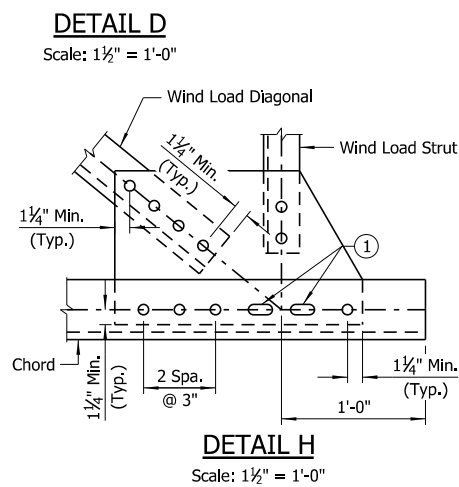
DRAWN BY: CSW DATE: DEC. 2022 FILENAME: b55090b.dgn
CHECKED BY: ABH DATE: FEB. 2023 SCALE: As Shown
DESIGNED BY: STD. DATE: -

DRAWING NO. 55090B

DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
		CANTILEVER SIGN STR. (35') - 55090C				



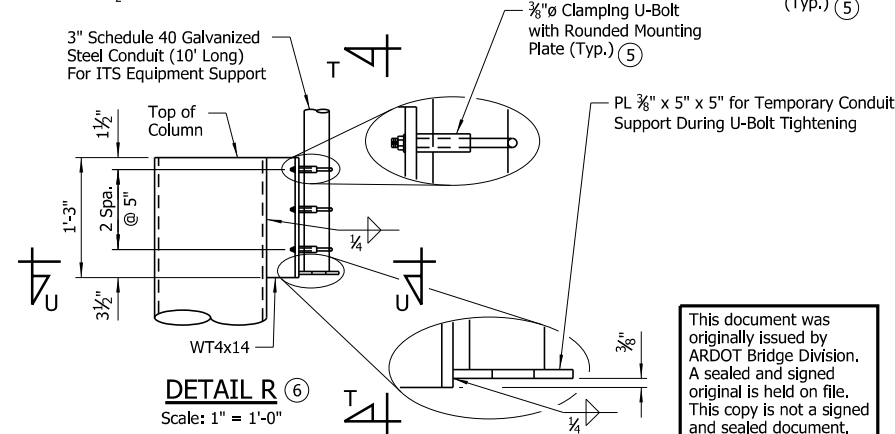
NOTE:
Unless otherwise noted, thickness of
all Gusset Plates shall be $\frac{3}{8}$ ".



NOTE:
Provide handhole covers with chain, waterproof grommet, and tamperproof screws.

Handhole covers shall be galvanized and meet the requirements of ASTM A36 at a minimum.

Tamperproof screws shall be galvanized and meet the requirements of ANSI/ASME B18.6.3.



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SHEET 3 OF 6
STANDARD DETAILS OF 35' STEEL
CANTILEVER SIGN STRUCTURE
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: CSW DATE: DEC. 2022 FILENAME: b55090c.dgn
 CHECKED BY: ABH DATE: FEB. 2023 SCALE: As Shown
 DESIGNED BY: STD. DATE: -

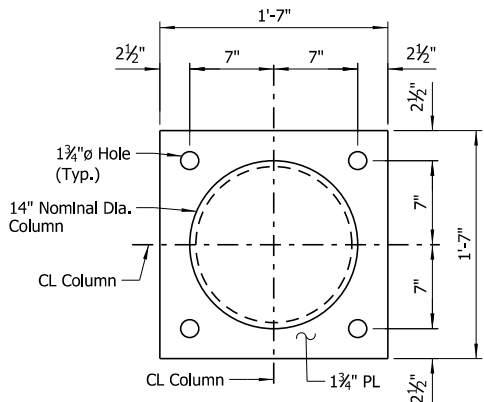
11. DRAWING NO. 55090C

Scales shown are for full size 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
CANTILEVER SIGN STR. (35') - 55090D						

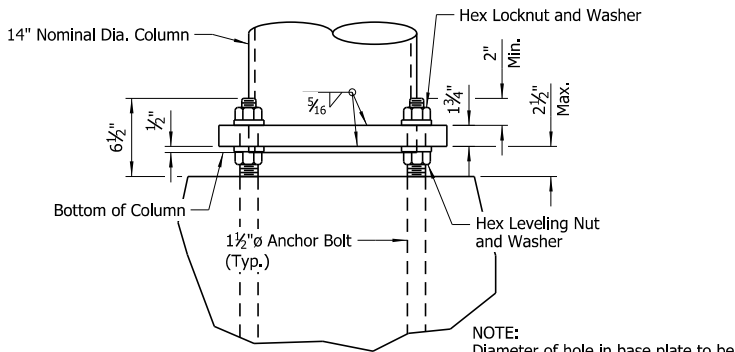
① All "Lindapter" connectors or approved equal shall be installed according to Manufacturer's recommendations. All connectors, bolts, nuts and washers shall be galvanized.

NOTE:
Install all support connectors clear of the gusset plates and splice locations.



PLAN - COLUMN BASE

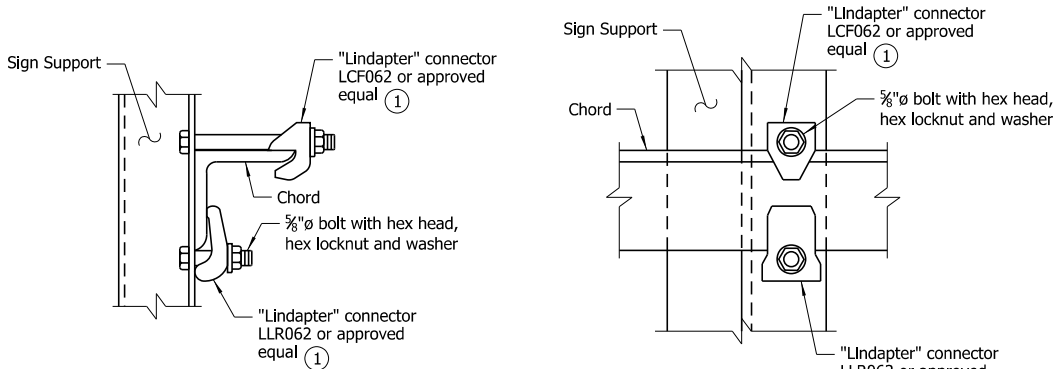
Scale: 1 1/2" = 1'-0"



ELEVATION - COLUMN BASE

Scale: 1 1/2" = 1'-0"

NOTE:
Diameter of hole in base plate to be 1/8" larger than column diameter.



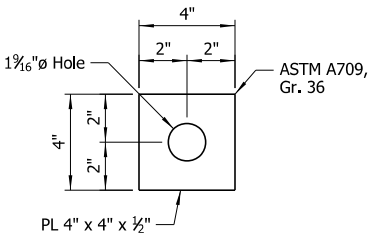
TOP CHORD

BOTTOM CHORD

DETAILS OF SIGN SUPPORT CONNECTION TO TRUSS

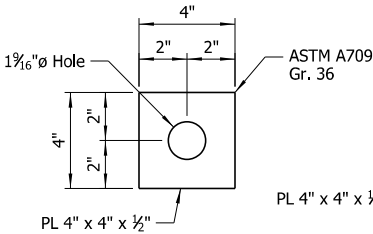
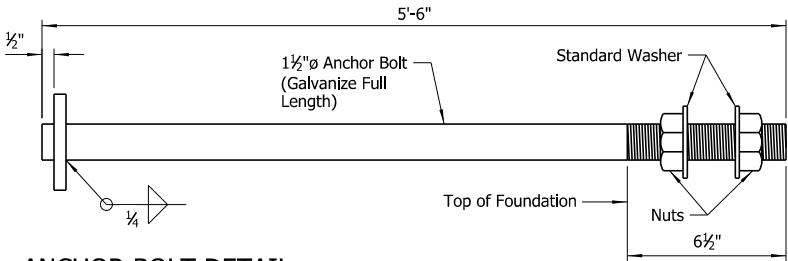
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NOTE:
Unless otherwise noted, thickness of all Gusset Plates shall be 3/8".



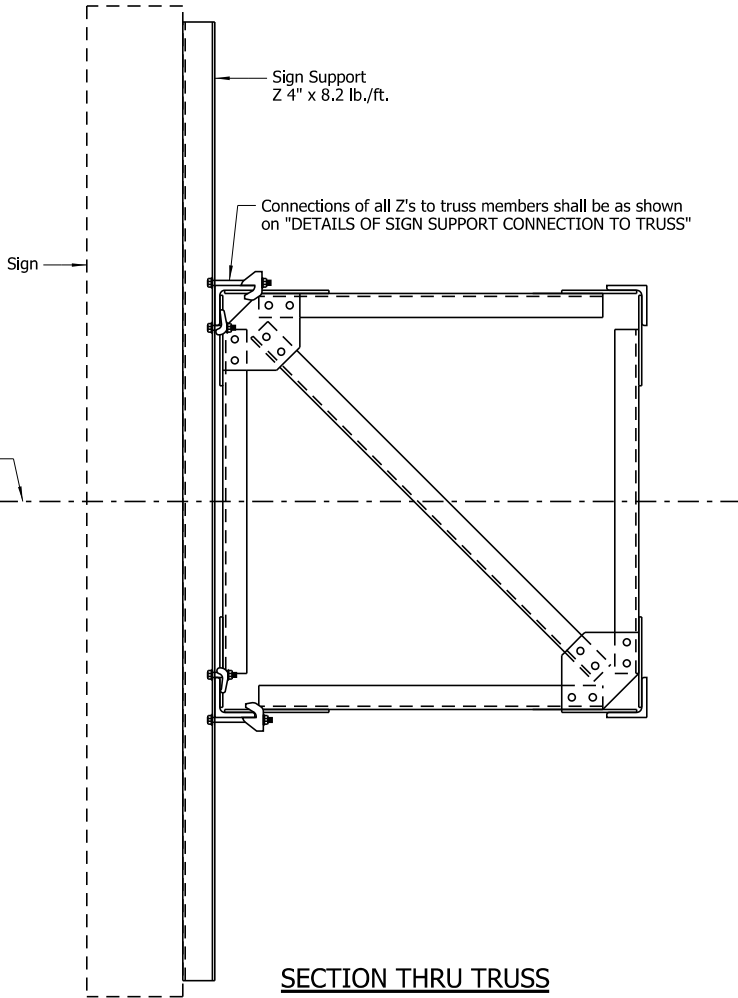
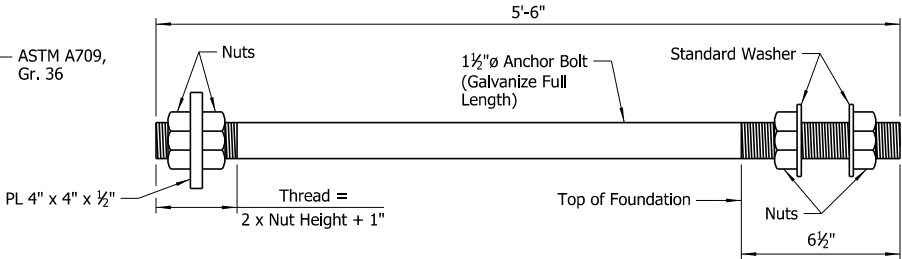
ANCHOR BOLT DETAIL

No Scale



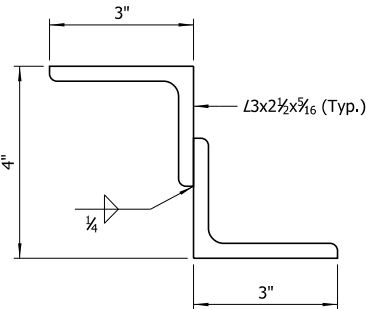
ALTERNATE ANCHOR BOLT DETAIL

No Scale



SECTION THRU TRUSS

No Scale



NOTE:
Structural Z support may be fabricated from angles as shown.

DETAILS OF ALTERNATE Z SUPPORT

No Scale

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

SHEET 4 OF 6
STANDARD DETAILS OF 35' STEEL
CANTILEVER SIGN STRUCTURE
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: CSW DATE: DEC. 2022 FILENAME: b55090d.dgn
CHECKED BY: ABH DATE: FEB. 2023 SCALE: As Shown
DESIGNED BY: STD. DATE: -

DRAWING NO. 55090D

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Scales shown are for full size 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

GENERAL NOTES:

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, 2014 Edition, with applicable Supplemental Specifications and Special Provisions. Section and Subsection refer to the Specifications unless otherwise noted in the plans.

DESIGN SPECIFICATIONS: AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, First Edition, 2015 with current interim revisions.

Basic Wind Speed = 120 mph
Fatigue Category: I

This structure is approved for 300 square feet of sign area and a maximum sign weight (total of all signs and hangers) of 3600 lbs. Use of additional sign area or a heavier sign must be approved by the Engineer. If the structure height ("H") exceeds 30'-0", contact the Engineer.

FOUNDATION MATERIALS AND STRENGTHS:
Class S Concrete $f_c = 3,500$ psi
Reinforcing Steel (Gr. 60, AASHTO M 31 or M 322, Type A) $f_y = 60,000$ psi

Spread footings for the structure have been designed assuming a factored bearing resistance of 2.0 ksf. Contractor shall be responsible for evaluating and verifying that the foundation soils are adequate to achieve the assumed factored bearing capacity, utilizing SPT (Standard Penetration Test), CPT (Cone Penetration Test), DCP (Dynamic Cone Penetration) test, or other suitable means, prior to or after footing excavation, whichever is appropriate. If the foundation soils are verified to be adequate, then the footing shall be constructed in accordance with the planned dimensions. Otherwise, the Design Engineer shall be contacted. Costs for foundation soil evaluation and verification shall be included in the item "STEEL CANTILEVER SIGN STRUCTURE ()".

Structural steel sign support members shall comply with the following specifications:

- Angles: ASTM A709, Grade 36 ($F_y = 36,000$ psi)
Plate, W-Section: ASTM A709, Grade 50 ($F_y = 50,000$ psi)
Pipe: ASTM A139, Gr. C, straight-seam welded ($F_y = 42,000$ psi)
ASTM A500, Gr. B ($F_y = 42,000$ psi)
ASTM A501, Gr. B ($F_y = 50,000$ psi)
Z-Shapes: ASTM A709, Grade 36 ($F_y = 36,000$ psi)
Shim Plates: ASTM A1011, SS, Grade 36, Type 2, or Grade 40
Bolts: ASTM F3125, Grade A325, Type 1
Locknuts - Approved Type: ASTM A563, Grade DH or AASHTO M 292, Grade 2H
Washers: ASTM F436
Nuts: ASTM A563, Grade DH or AASHTO M 292, Grade 2H

The Contractor shall make check measurements in the field and make any adjustments necessary to meet the required clearances and to fit the new structure to the existing and/or proposed conditions.

Drawings show general features of design only. Shop drawings shall be made in accordance with Subsection 807.04, submitted, and approval secured before fabrication is begun.

Requests for substitution of structural steel shapes shown with shapes of greater size must be submitted by the Contractor to the Engineer for approval. Steels of equal or greater strengths will be accepted only when shown on the approved shop drawings. Shapes and materials shown in the plans will be the basis of payment and no additional compensation will be made for any adjustments due to substitutions.

All steel shall be galvanized according to Subsection 807.19. Steel completely encased in concrete may not be galvanized. Galvanized coating damaged during transport, handling or erection shall be field repaired in accordance with Subsection 807.88.

All main load carrying tension members greater than $\frac{1}{2}$ " in thickness shall conform to the requirements of the Longitudinal Charpy V-Notch test specified for Zone 1 minimum service temperature. This work and materials shall be paid for in accordance with Special Provision "STEEL SIGN STRUCTURES".

Field splices shall be located in order to avoid sign panel connections. There shall be a maximum of two field splices, and they shall be spaced a minimum of 15 feet apart.

Truss field sections shall be shop assembled. Entire truss shall be fully assembled and lifted into place as one unit on to tower supports. All truss member connections shall be bolted connections.

All welding that is to be done during fabrication of structural steel, including temporary welds, shall be detailed on the shop drawings and submitted for approval. If additional welds are required, whether temporary or permanent, a formal request with detailed drawings shall be submitted to the Engineer for approval. All welding shall conform to Subsection 807.26 except welding of tubular sections shall conform to AWS D1.1 Structural Welding Code.

No circumferential butt welds will be allowed in any pipe sections.

All fillet welds of critical members shall be tested according to AWS D1.1 Structural Welding Code - Steel using the magnetic particle method. Critical welds shall include: column to base plate and truss bottom support to column.

Connections shall be bolted with high-strength bolts. Unless otherwise noted, bolts shall be $\frac{7}{8}$ " $\varnothing$ and open holes shall be $1\frac{5}{16}$ " $\varnothing$. Bolt spacing shall be $2\frac{5}{8}$ " for $\frac{7}{8}$ " $\varnothing$ bolts unless otherwise noted. Bolts shall be placed with heads on the outside face of all members.

All truss frame bolts shall comply with ASTM F3125, Grade A325, Type 1, galvanized according to Subsection 807.06. Nuts and washers for ASTM F3125, Grade A325, Type 1 bolts shall be furnished and galvanized in accordance with Subsection 807.06.

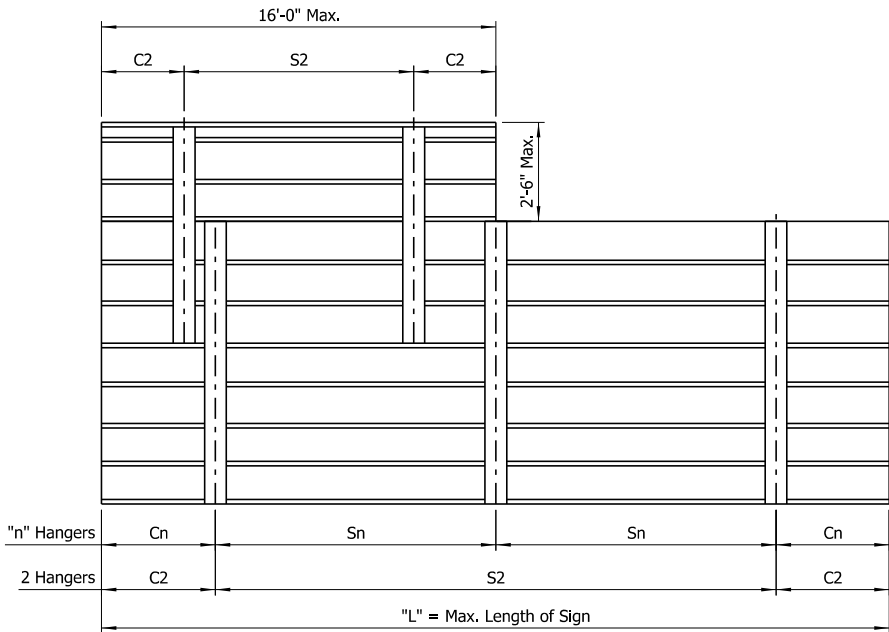
Locknuts shall be equipped with nylon locking inserts or other approved type locking system. Locknuts shall be installed according to Manufacturer's recommendations.

Anchor bolts shall comply with AASHTO M 314, Grade 55, Including Supplementary Requirement S1, and shall be galvanized according to Subsection 807.07. Nuts and washers for anchor bolts shall be furnished and galvanized in accordance with Subsection 807.07. Anchor bolts shall be pretensioned in accordance with Special Provision "STEEL SIGN STRUCTURES".

Shoring may be required to protect existing shoulders or other elements during excavation. Any shoring required shall not be paid for directly, but shall be considered incidental to the item "STEEL CANTILEVER SIGN STRUCTURE ()". The excavations for the footing shall be backfilled before the structure is attached to the foundation.

DYNAMIC MESSAGE SIGN (WHEN APPLICABLE): The Dynamic Message Sign (DMS) supplier shall be responsible for the attachment method and materials used to attach the DMS and its accessories to the structure. The method of attachment shall not facilitate any corrosion of the structure. For additional information regarding the DMS, see Special Provision "OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY".

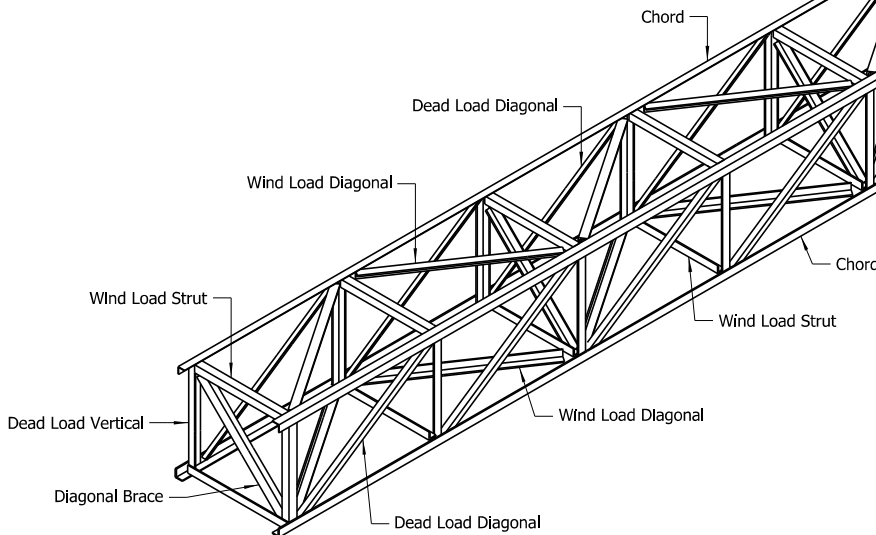
For location of each 35' cantilever sign structure to be used, refer to ITS and/or Sign Plans.



NOTE:
See sign details and plan sheets for number, size and dimensions of signs.

HANGER SPACING DETAILS FOR
EXTRUDED PANEL SIGNS

No Scale



- ① In addition to material requirements, all pipe used for welded applications shall have a maximum carbon equivalency (CE) of 0.4 using the following equation:

$$CE = \%C + \%Mn/6 + \%Cu/40 + \%Ni/20 + \%Cr/10 - \%Mo/50 - \%V/10$$

ISOMETRIC VIEW

No Scale

HANGER VARIABLES

(For Extruded Panel Signs)

Max. Length of Sign = "L"	"n" Hangers	Cantilever Length "Cn"	Hanger Spacing "Sn"
15'-0"	2 Hangers	0.21 x "L"	0.58 x "L"
30'-0"	3 Hangers	0.145 x "L"	0.355 x "L"

NOTE:
Hanger spacing and cantilever length shall be rounded to the nearest inch.

THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

SHEET 5 OF 6
STANDARD DETAILS OF 35' STEEL
CANTILEVER SIGN STRUCTURE
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: CSW DATE: DEC. 2022 FILENAME: b55090e.dgn
CHECKED BY: ABH DATE: FEB. 2023 SCALE: As Shown
DESIGNED BY: STD. DATE: -

DRAWING NO. 55090E

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Scales shown are for full size 22"x34" drawings. When using 11"x17" drawings, reduce scale by one half.

DATE REVISED	DATE REVISED	FED. ROAD DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.			
CANTILEVER SIGN STR. (35') - 55090F						

DRILLED SHAFT NOTES (FOUNDATION A2)

Drilled shafts shall conform to Special Provision "DRILLED SHAFT FOUNDATIONS FOR STEEL SIGN STRUCTURES". Drilled shafts will not be paid for directly but shall be considered subsidiary to the unit price bid for "STEEL CANTILEVER SIGN STRUCTURE ()". Temporary casing may be required. Unless approved by the Engineer, permanent steel casing shall not be used.

Crosshole Sonic Logging (CSL) shall be performed on one drilled shaft at each foundation and as directed by the Engineer. Testing shall be performed in accordance with Special Provision "NONDESTRUCTIVE TESTING OF DRILLED SHAFTS FOR STEEL SIGN STRUCTURES".

Concrete and reinforcing steel placed in drilled shafts will not be paid for directly but shall be considered subsidiary to the unit price bid for "STEEL CANTILEVER SIGN STRUCTURE ()". No additional payment shall be made for spacers, additional splices or bracing needed for assembly, shipping, handling or erecting.

Concrete in drilled shafts shall be Class "S" as modified by Special Provision "DRILLED SHAFT FOUNDATIONS FOR STEEL SIGN STRUCTURES".

Drilled shaft lengths shall be determined based on the results of exploratory borings, which shall be performed by the Contractor prior to shaft excavation.

If competent rock is not encountered in the exploratory boring, the Standard Penetration Test (SPT) blow count corrected by the hammer efficiency, N60, shall be used to determine shaft lengths. See "TABLE OF VARIABLES".

If competent rock is encountered in the exploratory boring within 25'-0" of planned top of drilled shaft, the shafts shall be founded a minimum of 3'-0" into rock and have a minimum length of 25'-0".

If competent rock is encountered in the exploratory boring below 25'-0" from planned top of drilled shaft, the shafts shall be founded a minimum of 3'-0" into rock or to the depth based on the SPT N60 value and associated shaft length in the "TABLE OF VARIABLES", whichever is shallower.

Testing results shall be submitted to the Engineer for review. Final drilled shaft lengths shall be approved by the Engineer prior to construction.

The cost of performing exploratory borings and in-situ strength testing shall be included in the item "STEEL CANTILEVER SIGN STRUCTURE ()".

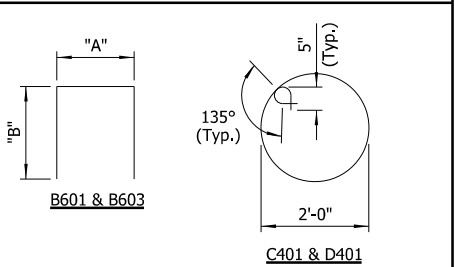
TABLE OF VARIABLES ⑦

SPT N60 ⑥	Min. Depth of Exploratory Boring	Drilled Shaft Length, "C"	"D"	"E"	"F" ⑧	"G"
<5	-	Contact Engineer	-	-	-	-
5 To 7	75'-0"	70'-0"	139	560	72'-5"	280'-0"
7 To 9	63'-0"	58'-0"	115	464	60'-5"	232'-0"
9 To 11	47'-0"	42'-0"	83	336	44'-5"	168'-0"
11 To 13	37'-0"	32'-0"	63	256	34'-5"	128'-0"
>13	31'-0"	26'-0"	51	208	28'-5"	104'-0"

BAR LIST - FOUNDATION A2

MARK	NO. REQ'D	LENGTH	"A"	"B"	P.D.
B601	84	16'-4"	10'-6"	3'-1"	4½"
B602	12	10'-4"			Str.
B603	12	15'-2"	10'-4"	2'-7"	4½"
C401	12	7'-4"			3"
D401	"E"	7'-4"			3"
D801	40	"F"			Str.

BAR BENDING DIAGRAMS



NOTES:
Dimensions of bars are out-to-out.

Number of bars shown is for one Foundation A2.

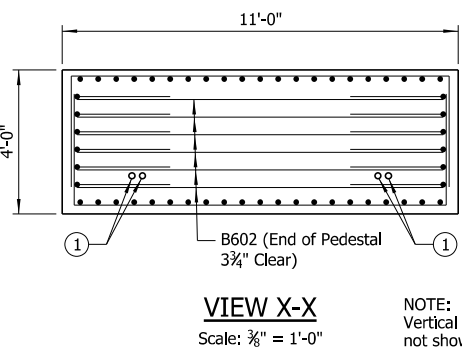
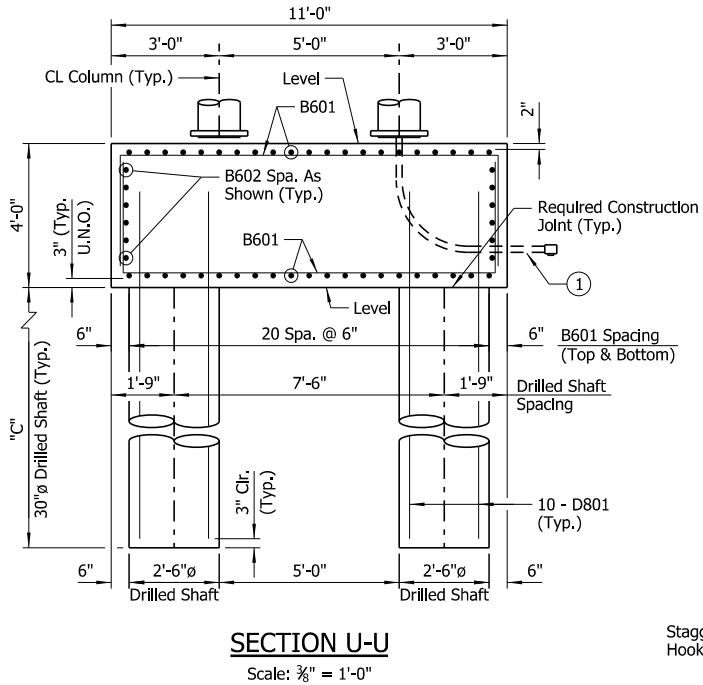
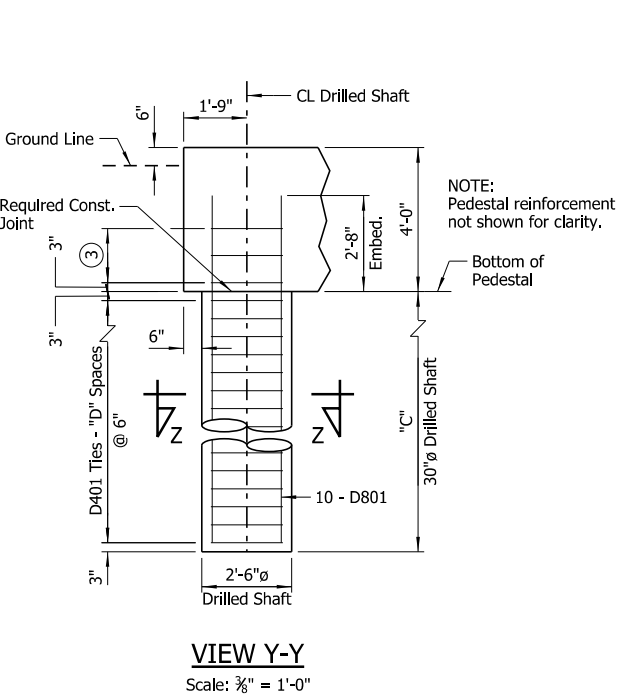
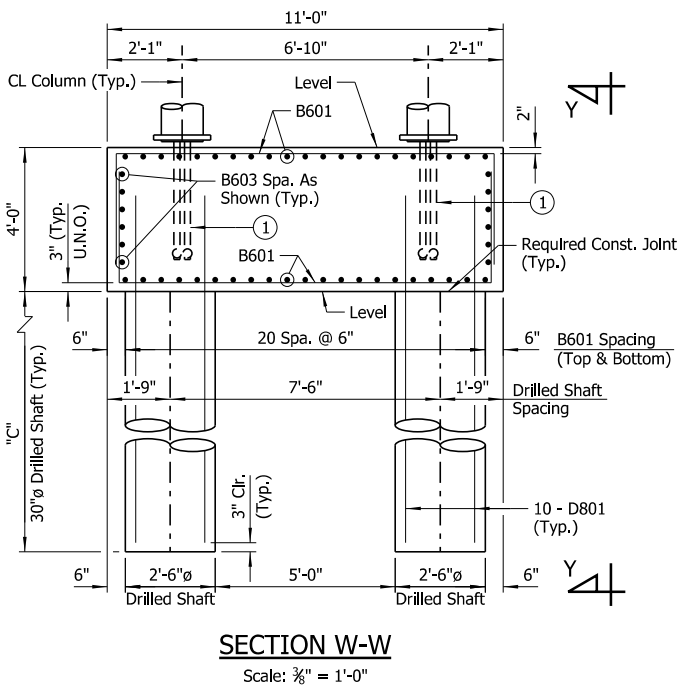
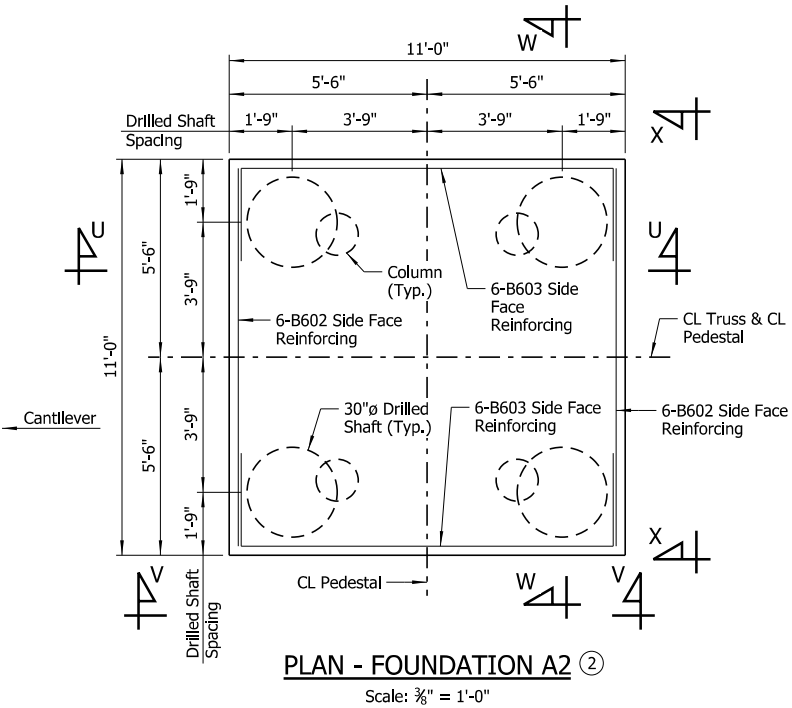
THESE DETAILS ARE APPLICABLE UNLESS OTHERWISE SHOWN IN THE PLAN DETAILS, SPECIAL PROVISIONS, OR SUPPLEMENTAL SPECIFICATIONS.

SHEET 6 OF 6 STANDARD DETAILS OF 35' STEEL CANTILEVER SIGN STRUCTURE ARKANSAS STATE HIGHWAY COMMISSION

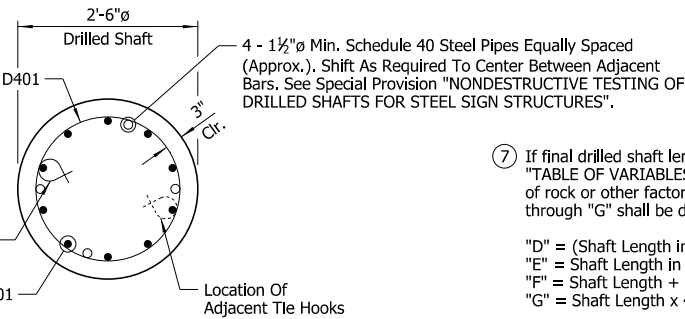
LITTLE ROCK, ARK.

DRAWN BY: CWT DATE: JAN. 2023 FILENAME: b55090f.dgn
CHECKED BY: CSW DATE: FEB. 2023 SCALE: As Shown
DESIGNED BY: STD. DATE: -

DRAWING NO. 55090F



NOTE:
Vertical legs of B601 bars
not shown for clarity.



- ① 2" Non-Metallic Conduit (Schedule 80) with 16" Min. Bend Radius (2 Conduits per Outside Column). An Insulated bushing shall be installed at the top end of each conduit. If cabling in the conduit is not required per Electrical and/or ITS plans, the end of conduit in the ground shall be capped for future use with a manufactured water-tight cap.
- ② Foundation A2 allowed only when foundation is outside clear zone or is protected by guardrail or barrier.
- ③ C401 Ties - 2 Spaces @ 9"
- ⑥ Tabulated SPT N60 values are raw SPT N values corrected by SPT hammer efficiency and represent average values along the plan shaft penetration. If the SPT N60 values in the foundation soils within 2 shaft diameters below the plan tip elevation are less than the average SPT N60 values along the plan shaft penetration, the Engineer shall be contacted.

- ⑦ If final drilled shaft length is not shown in "TABLE OF VARIABLES" due to the presence of rock or other factors, variables "D" through "G" shall be determined as follows:
- "D" = (Shaft Length in Ft. - 0.5) / 0.5
"E" = Shaft Length in Ft. x 8
"F" = Shaft Length + 2'-5"
"G" = Shaft Length x 4
- ⑧ If "F" exceeds 60'-0", a lap splice is required for each D801 bar at the midpoint of the drilled shaft. Min. lap splice length for D801 bar = 3'-6". Length shown in table does not include the additional length required for a lap splice.

APPROX. QUANTITIES FOR FOUNDATION A2 (FOR INFORMATION ONLY)

CLASS S CONCRETE (CU. YDS.) ④	REINFORCING STEEL (LBS.) ⑤	EXCAVATION (CU. YDS.)	DRILLED SHAFT (30" DIA.) (LIN. FT.)	CROSSHOLE SONIC LOGGING (30" DIA.) (EACH)
18.00	2,580	26	"G"	1

- ④ Does not include Class S Concrete for Drilled Shafts
- ⑤ Does not include D401 and D801 Bars in Drilled Shafts

LEGEND

U.N.O. = Unless Noted Otherwise

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