

**NOTES:**

- All steel shall be ASTM A-36 hot rolled unless otherwise noted.
- J-J Hooks are a product of Easi-Set Worldwide. Hooks shall be cast into the barrier in accordance with the manufacturer's recommendations.
- The drop-in anchor and bolt shall be tightened to the anchor manufacturer's specifications. The anchor shall have a minimum ultimate shear capacity of 26.4 kips.
- Bent plate anchor bracket shall be attached to a concrete surface using one of the following anchor systems. Minimum embedment shall be in accordance with the manufacturer's recommendations, but not less than 4 1/2 in.
  - 1-in. threaded rod, grade 55 minimum, with washer and nut. Rod shall be installed using an approved epoxy chemical anchor system with a minimum ultimate shear capacity of 21.2 kips; or
  - 1-in. diameter wedge anchor; or
  - 1-in. nominal diameter drop-in anchor with 1-in. diameter, grade 5 hex bolt.
- When concrete will remain in place after anchoring is removed, the threaded rod anchoring system shall be used. The rod shall be completely removed, the hole shall be blown out to remove any moisture or debris, and the hole completely filled using the same epoxy that was used for anchoring the rod.
- A single bent plate anchor bracket may be used instead of the two-plate detail as shown.

**INDIANA DEPARTMENT OF TRANSPORTATION**  
**ANCHORED TEMPORARY CONCRETE BARRIER, DROP-IN ANCHOR**  
 SEPTEMBER 2019  
 STANDARD DRAWING NO. E 801-TCCB-05

Professional Engineer: David H. Boruff, No. 10200124, State of Indiana, Design Standards Engineer, Date: 5/29/2019.  
 Chief Engineer: [Signature], Date: 6/5/2019.

**NOTES:**

- All steel shall be ASTM A-36 hot rolled unless otherwise noted.
- J-J Hooks are a product of Easi-Set Worldwide. Hooks shall be cast into the barrier in accordance with the manufacturer's recommendations.
- The bolt shall be installed snug tight in the cast-in ferrule loop insert. The insert shall have a minimum ultimate shear capacity of 12.1 kips.
- Bent plate anchor bracket shall be attached to a concrete surface using one of the following anchor systems. Minimum embedment shall be in accordance with the manufacturer's recommendations, but not less than 4 1/2 in.
  - 1-in. threaded rod, grade 55 minimum, with washer and nut. Rod shall be installed using an approved epoxy chemical anchor system with a minimum ultimate shear capacity of 21.2 kips; or
  - 1-in. diameter wedge anchor; or
  - 1-in. nominal diameter drop-in anchor with 1-in. diameter, grade 5 hex bolt.
- When concrete will remain in place after anchoring is removed, the threaded rod anchoring system shall be used. The rod shall be completely removed, the hole shall be blown out to remove any moisture or debris, and the hole completely filled using the same epoxy that was used for anchoring the rod.
- See E 801-TCCB-05 for bent plate anchor details, top plate washer details, and additional notes.

**INDIANA DEPARTMENT OF TRANSPORTATION**  
**ANCHORED TEMPORARY CONCRETE BARRIER, FERRULE LOOP INSERT**  
 SEPTEMBER 2019  
 STANDARD DRAWING NO. E 801-TCCB-06

Professional Engineer: David H. Boruff, No. 10200124, State of Indiana, Design Standards Engineer, Date: 5/29/2019.  
 Chief Engineer: [Signature], Date: 6/5/2019.

INDEX	
SHEET NO.	SUBJECT
1	Traffic Control Devices Index and General Notes
2	Channelizing Devices
3	Merge or Shift Taper
4	Channelizing Devices Usage
5	Type III Barricade
6	Typical Construction Sign Mounting
7	Type III Barricade Application for Road Closure for Thru Traffic
8	Type III Barricade Application for Road Closure to All Traffic
9	U Channel Steel Post Splice Detail
10	Temporary Transverse Rumble Strips
11	Worksite Speed Limit Sign Assembly
12	Worksite Speed Limit Sign Assembly Longitudinal Placement

**GENERAL NOTES:**

- Unless otherwise noted, channelizing devices in tangent sections shall be 100 ft where the permanent posted speed limit is 50 m.p.h. or greater, and the spacing shall be 50 ft where the permanent posted speed limit is less than or equal to 45 m.p.h.
- Unless otherwise noted, the spacing of channelizing devices in tapers shall be equal in feet to the permanent posted speed limit in m.p.h.
- All channelizing devices shall satisfy NCHRP 350 or MASH crash evaluation criteria.
- It is not necessary to delineate a drop-off of 3 in. or less adjacent to active travel lanes. Where channelizing devices are used to delineate drop-offs of 3 in. or less adjacent to active travel lanes, at least 33 in. of the device shall be above the adjoining pavement surface. Where channelizing devices are used to delineate a drop-off greater than 3 in. adjacent to active travel lanes, at least 27 in. of the device shall be above the adjoining pavement surface and a Type C warning light shall be attached to the top of the device (on the pavement side). In no case shall more than 9 in. of the device be below the adjoining pavement surface.
- The proper orientation in respect to approaching vehicular traffic shall be maintained on channelizing devices. Drums are the preferred channelizing device in a tight radius curve and at intersections.
- Short-term stationary** work that occupies a location for more than one hour within a single daylight period.  
**Intermediate-term stationary** work that occupies a location for more than one daylight period up to three days, or nighttime work lasting more than one hour.  
**Long-term stationary** work that occupies a location for more than three days.

**INDIANA DEPARTMENT OF TRANSPORTATION**  
**TRAFFIC CONTROL DEVICES INDEX AND GENERAL NOTES**  
 SEPTEMBER 2022  
 STANDARD DRAWING NO. E 801-TCDV-01

Professional Engineer: David H. Boruff, No. 60900348, State of Indiana, Design Standards Engineer, Date: 06/08/22.  
 Chief Engineer: [Signature], Date: 06/27/2022.

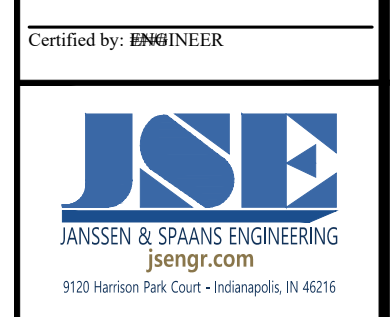
**NOTES:**

- Shy distance for tubular markers and cones may be reduced to 1 ft.
- A Type C warning light will be required on tapers where there is a reduction in the number of lanes and a flashing arrow sign is used.
- Reflective sheeting may be omitted from cones for lane closures during daylight hours.
- For vertical panels equal to or greater than 3 ft in height, the width of the stripes shall be 6 in.
- Vertical panels used on roadways with a permanent posted speed limit of 50 mph or greater shall have a minimum reflective panel area of 270 sq. in.
- The maximum distance between the edges of adjacent reflective sheeting strips shall be 2 in.
- Minimum flexible tubular marker base area shall be 0.3 sq. ft.
- For nighttime work, tubular markers with a height of less than 3.5 ft shall have two 3 in. white bands of reflective sheeting placed a maximum of 2 in. from the top with a maximum of 6 in. between the bands.
- See Standard Drawing E 801-TCDV-04 for channelizing device usage and application.

**LEGEND**  
 W = White Reflective Sheeting  
 FO = Fluorescent Orange Reflective Sheeting

**INDIANA DEPARTMENT OF TRANSPORTATION**  
**CHANNELIZING DEVICES**  
 SEPTEMBER 2022  
 STANDARD DRAWING NO. E 801-TCDV-02

Professional Engineer: David H. Boruff, No. 60900348, State of Indiana, Design Standards Engineer, Date: 06/08/22.  
 Chief Engineer: [Signature], Date: 06/27/2022.



PUBLIC WORKS PROJECT NO. 89006007-23-034-C1  
 CENTERVILLE WELCOME CENTER  
 CENTERVILLE, INDIANA



Revisions:

Project Number: 89006007-23-034-C1	
Requisition Number:	
Account Number:	
Designer: ID	Drawing Date: 8/30/2024
Drafter: JRC	Drawing Scale: N/A
DAPW Approval:	
Client Approval:	
Reference Number: 1394	Drawing Number:
Sheet: 117 of 140	

**NOTES:**

- For freeways, a taper length of 840 ft shall be used for the first merge taper. For subsequent merges, a length of 840 ft shall be used unless otherwise shown on the plans.
- A shift taper preceded by a merge taper shall be separated by a tangent section equal to or greater than the length of the shift taper.

**LEGEND**

- = Channelizing Device
- ✕ = Removal of pavement markings and prismatic reflectors
- = Direction of Traffic
- L = Minimum length of taper in ft
- S = Posted speed limit prior to the construction zone in mph
- W = Width of lane or shift in ft

MERGE TAPER				
S	Min. Taper Length L			
	W = 9	W = 10	W = 11	W = 12
25	95	105	115	125
30	135	150	165	180
35	185	205	225	245
40	240	270	295	320
45	405	450	500	540
50	450	500	550	600
55	495	550	605	660
60	540	600	660	720
65	585	650	715	780
70	630	700	770	840
75	675	750	825	900

For W not shown in the table, L = W x S for a speed of 45 mph or greater.  
L = W x S<sup>2</sup>/60 for a speed of 40 mph or lower.

SHIFT TAPER				
S	Min. Taper Length L/2			
	W = 9	W = 10	W = 11	W = 12
25	50	55	60	65
30	70	75	85	90
35	95	105	115	125
40	120	135	150	160
45	205	225	250	270
50	225	250	275	300
55	250	275	305	330
60	270	300	330	360
65	295	325	360	390
70	315	350	385	420
75	340	375	415	450

For W not shown in the table, L is one half that required for a merge taper.

**INDIANA DEPARTMENT OF TRANSPORTATION**

**MERGE OR SHIFT TAPER**

SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCDV-03

DAVID H. BORUFF, No. 60900348, DESIGN STANDARDS ENGINEER, 06/08/22

DAVID H. BORUFF, No. 60900348, DESIGN STANDARDS ENGINEER, 06/27/2022

**NOTES:**

- Spacing in tangent shall be 40 ft maximum; spacing between devices in taper shall be numerically equal in feet, maximum, to the posted speed limit in m.p.h.
- Spacing in tangent shall be 80 ft maximum; spacing between devices in taper shall be numerically equal in feet, maximum, to the posted speed limit in m.p.h.
- Spacing in tangents shall be 50 ft maximum when the speed limit is 45 m.p.h. or below; spacing in tangents shall be 100 ft maximum when the posted speed limit is 50 mph or above; in cases where the posted speed limit is intermittently set to 45 m.p.h. the channelizing devices shall be maintained at 90 ft maximum spacing; spacing of channelizing devices on tapers shall be numerically equal in feet, maximum, to the posted speed limit in m.p.h.
- May only be used for daylight restrictions.
- May not be used for long-term, stationary work (more than 3 days).
- 30 lb ballast configuration required.
- For the purpose of channelizing device usage and spacing, the posted speed limit is the permanent posted speed limit, temporary speed limit, or worksite speed limit, whichever is lower.

Channelizing Device Type	Usage Application									
	To delineate merge tapers on		To delineate tangents where adequate space exists and also lane shift tapers on		Where the effective lane width is less than 10 ft to delineate tangents in lieu of drums on		Where the effective lane width is less than 10 ft to delineate edge of pavement drop-off in lieu of drums on		To divide opposing lanes of traffic on	To divide two or more lanes of same direction traffic on
	Freeways	Non-Freeways	Freeways	Non-Freeways	Freeways	Non-Freeways	Freeways	Non-Freeways	Non-Freeways	Non-Freeways
18 in. Cone (1) ≤ 40 mph Posted Speed Limit	No	Yes (4)	No	Yes (4)	No	No	No	No	Yes (4)	Yes (4)
18 in. Cone ≥ 45 mph Posted Speed Limit	No	No	No	No	No	No	No	No	No	No
28 in. Cone (1) ≤ 40 mph Posted Speed Limit	No	Yes (5)	No	Yes (5)	No	No	No	No	Yes (5)	Yes (5)
28 in. Cone (2) ≥ 45 mph Posted Speed Limit	No	Yes (4)	No	Yes (4)	No	No	No	No	Yes (5)	Yes (5)
28 in. Cone ≥ 50 mph Posted Speed Limit	No	Yes (4)	No	Yes (4)	No	No	No	No	Yes (5)	Yes (5)
42 in. Channelizer (Cone) (1) (6) ≤ 45 mph Posted Speed Limit	No	Yes (5)	No	Yes (5)	Yes	Yes	Yes	Yes	Yes (5)	Yes (5)
42 in. Channelizer (Cone) (2) (6) ≥ 50 mph Posted Speed Limit	No	Yes (5)	No	Yes (5)	Yes	Yes	Yes	Yes	Yes (5)	Yes (5)
Direction Indicator Barricade (3)	Yes	Yes	No	No	No	No	No	No	No	No
Flexible Tubular Marker (3)	No	No	No	No	No	No	No	Yes	Yes	Yes
Vertical Panel (3)	No	Yes	No	Yes	No	Yes	No	Yes	No	No
Construction Drum (3)	Yes	Yes	Yes	Yes	No	No	No	No	No	No

**CHANNELIZING DEVICE USAGE TABLE**

**INDIANA DEPARTMENT OF TRANSPORTATION**

**CHANNELIZING DEVICE USAGE**

SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCDV-04

DAVID H. BORUFF, No. 60900348, DESIGN STANDARDS ENGINEER, 06/08/22

DAVID H. BORUFF, No. 60900348, DESIGN STANDARDS ENGINEER, 06/27/2022

**NOTES:**

- Barricade lights, signs, and supports shall satisfy NCHRP 350 or MASH crash evaluation criteria.
- The detour arrow sign shall be used only when a detour route has been signed.
- The sign assembly shall be above the Type III barricade.

**INDIANA DEPARTMENT OF TRANSPORTATION**

**TYPE III BARRICADE**

SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCDV-05

DAVID H. BORUFF, No. 60900348, DESIGN STANDARDS ENGINEER, 06/08/22

DAVID H. BORUFF, No. 60900348, DESIGN STANDARDS ENGINEER, 06/27/2022

**NOTES:**

- See Standard Drawing E 801-TCSN-07 for additional notes.
- Signs, lights, and supports shall satisfy NCHRP 350 or MASH crash evaluation criteria.
- An advisory speed plaque, required to be placed with another construction sign, may be mounted on the post closest to the roadway at a height not less than 4 ft above the edge of pavement adjacent to the sign. The bottom of the construction warning sign shall not be lower than the top of the advisory speed plaque.
- Type A warning light required on all construction signs.
- In urban area or on Interstate route, mounting height shall not be less than 7 ft.
- When signs are placed on sidewalk, a 4 ft useable width shall be maintained. No part of the sign or support that is less than 7 ft in height may protrude more than 4 in. into the 4 ft useable sidewalk width.
- Temporary mounted construction sign for nighttime work or for operations which affect traffic lanes shall have a mounting height of 5 ft above the traveled way. On roadways where on-street parking is allowed, temporary mounted construction signs shall have a minimum sign mounting height of 7 ft above the traveled way.

**INDIANA DEPARTMENT OF TRANSPORTATION**

**TYPICAL CONSTRUCTION SIGN MOUNTING**

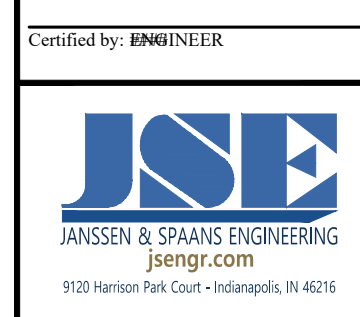
SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCDV-06

DAVID H. BORUFF, No. 60900348, DESIGN STANDARDS ENGINEER, 06/08/22

DAVID H. BORUFF, No. 60900348, DESIGN STANDARDS ENGINEER, 06/27/2022

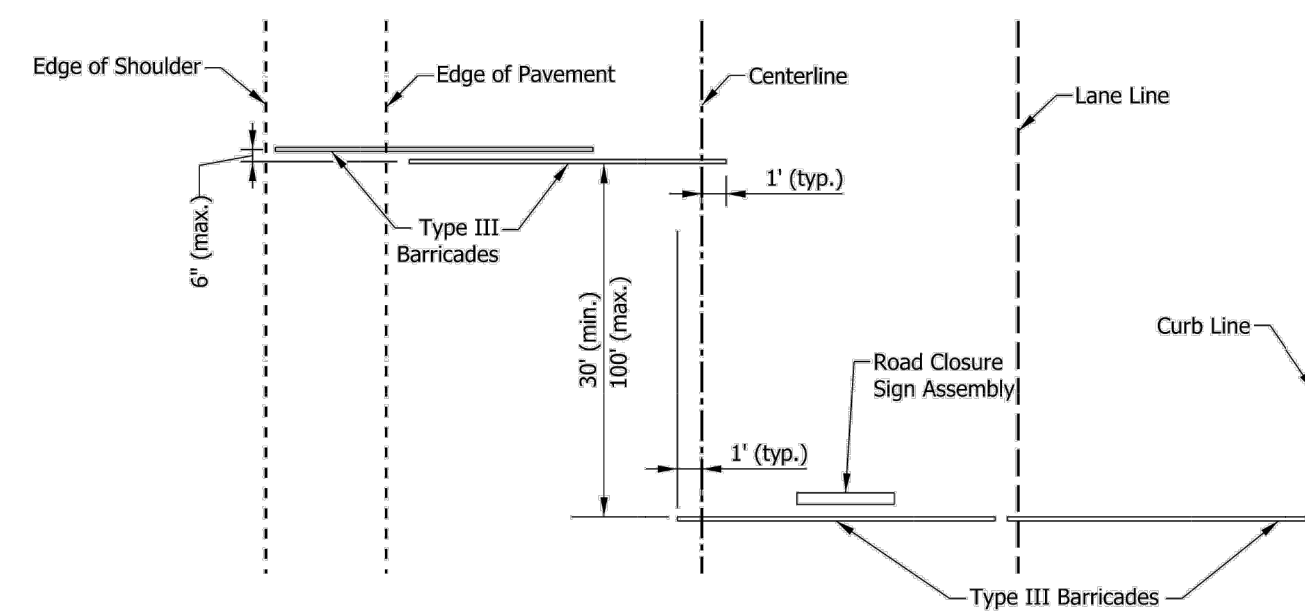
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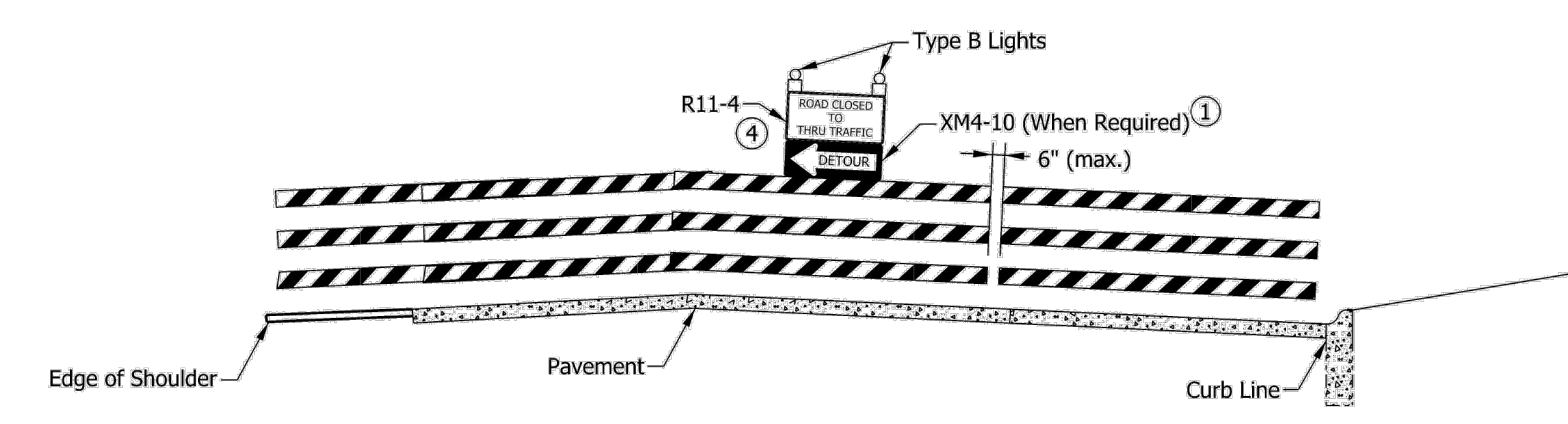
PUBLIC WORKS PROJECT NO. 89006007-23-034-C1  
 CENTERVILLE WELCOME CENTER  
 CENTERVILLE, INDIANA



Revisions: \_\_\_\_\_  
 Project Number: 89006007-23-034-C1  
 Requisition Number: \_\_\_\_\_  
 Account Number: \_\_\_\_\_  
 Designer: IID Drawing Date: 8/30/2024  
 Drafter: JRC Drawing Scale: N/A  
 DAPW Approval: \_\_\_\_\_  
 Client Approval: \_\_\_\_\_  
 Reference Number: 1394  
 Building Reference: \_\_\_\_\_  
 Drawing Number: CS140  
 Sheet: 118 of 140



PLAN VIEW



ELEVATION

- NOTES:**
- The detour arrow (XM4-10) sign shall be used only when a detour route has been signed.
  - See Standard Drawing E 801-TCDV-06 for sign mounting information.
  - Barricades and supports shall satisfy NCHRP 350 or MASH crash evaluation criteria.
  - The R11-3a ("ROAD CLOSED/LOCAL TRAFFIC ONLY") sign may be substituted for the R11-4 sign as shown on the plans or as directed by the engineer.

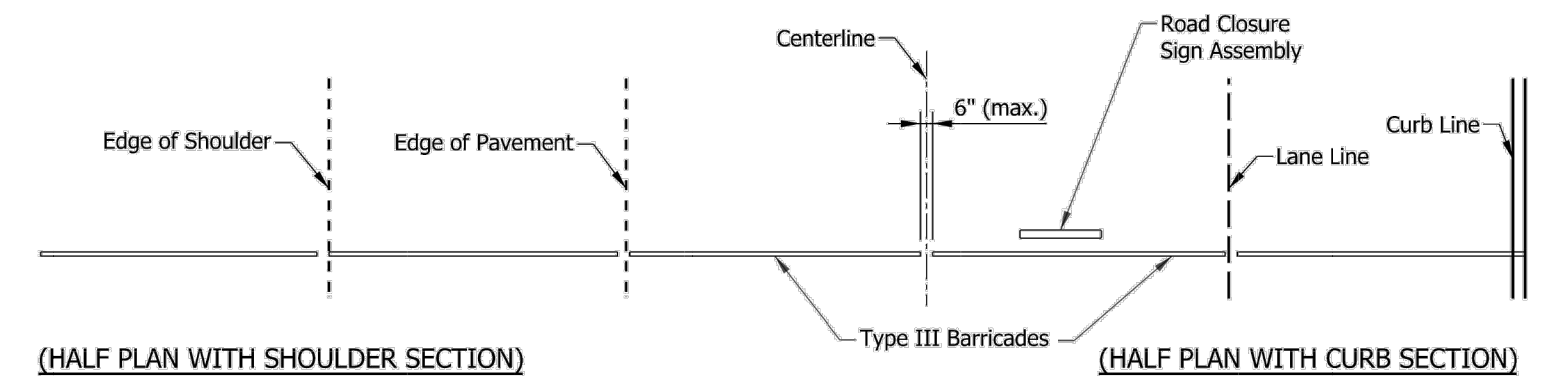
INDIANA DEPARTMENT OF TRANSPORTATION

TYPE III BARRICADE APPLICATION FOR ROAD CLOSURE FOR THRU TRAFFIC

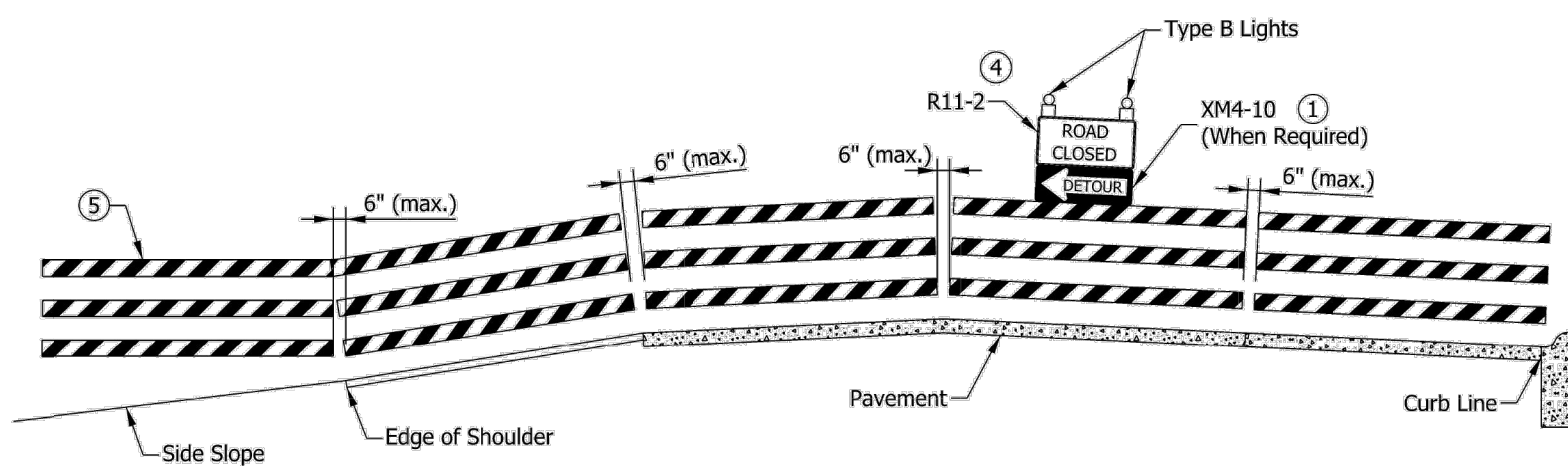
SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCDV-07

	 DESIGN STANDARDS ENGINEER DATE 06/08/22
	 CHIEF ENGINEER DATE 06/27/2022



PLAN VIEW



ELEVATION

- NOTES:**
- The detour arrow (XM 4-10) sign shall be used only when a detour route has been signed.
  - See Standard Drawing E 801-TCDV-06 for sign mounting information.
  - Barricades and supports shall satisfy NCHRP 350 or MASH crash evaluation criteria.
  - The sign legend of the R11-2 sign may be modified to "BRIDGE CLOSED" as shown on the plans or as directed by the engineer.
  - Barricades shall be supported on driven posts in areas outside of the pavement or sidewalk, where side slopes are 3 to 1 or flatter.

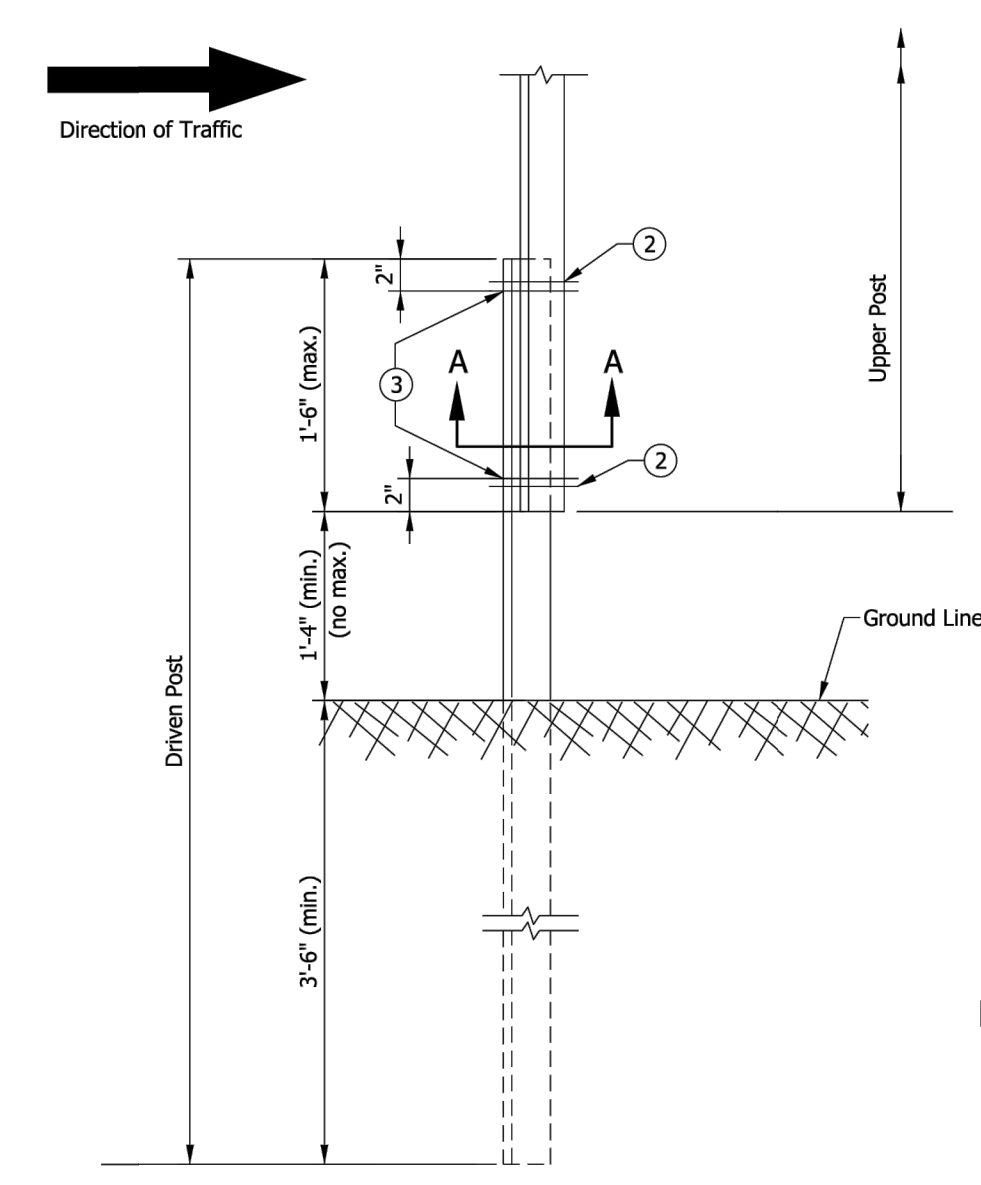
INDIANA DEPARTMENT OF TRANSPORTATION

TYPE III BARRICADE APPLICATION FOR ROAD CLOSURE TO ALL TRAFFIC

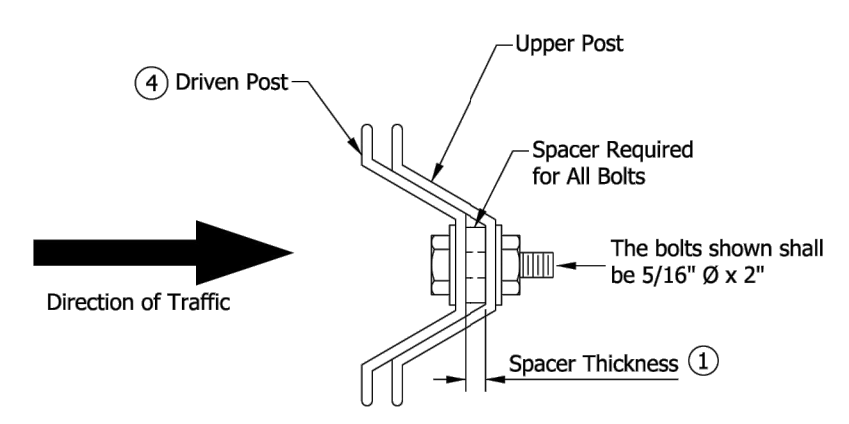
SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCDV-08

	 DESIGN STANDARDS ENGINEER DATE 06/08/22
	 CHIEF ENGINEER DATE 06/27/2022



ELEVATION



SECTION A-A

U CHANNEL STEEL POST SPLICE

- NOTES:**
- The spacer thickness shall be 1/16 in. less than the gap between the posts when positioned in the unbolted configuration.
  - The lower bolt, spacer, washer, and nut shall be installed in a pre-punched hole within the first 2 in. of the end of the lapped post section.
  - The upper bolt, spacer, washer, and nut shall be installed in a pre-punched hole within the first 2 in. of the lower bolt. The maximum spacing between the bolts shall be 1.5 ft. If the length of the post lap is increased such that this 1.5 ft maximum is exceeded, then interior bolts shall be installed such that the maximum space between adjacent bolts does not exceed the 1.5 ft limit.
  - The driven post shall be mounted in front of the upper post with respect to adjacent oncoming traffic, regardless of the direction the sign is facing.

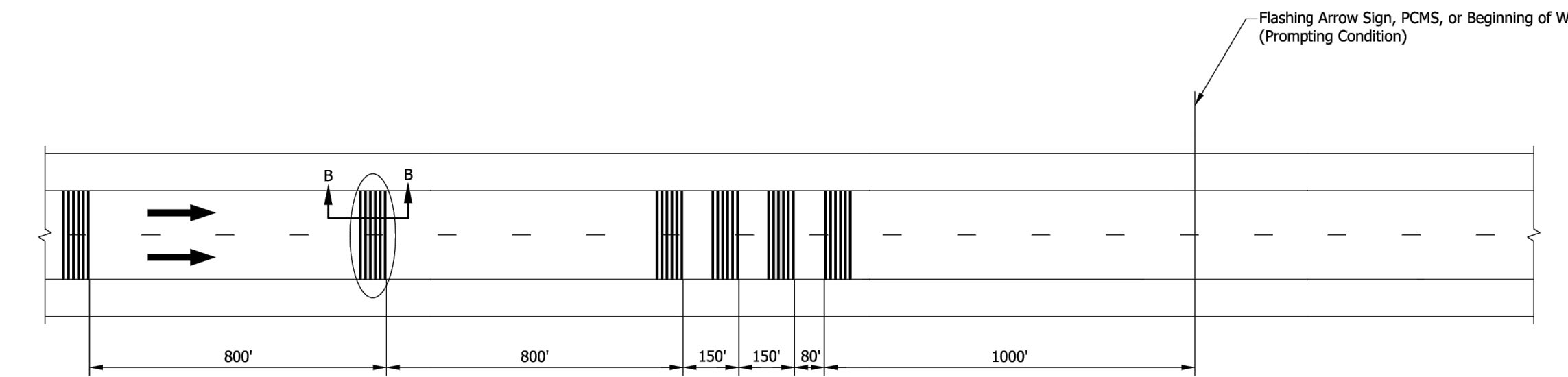
INDIANA DEPARTMENT OF TRANSPORTATION

U CHANNEL STEEL POST SPLICE DETAIL

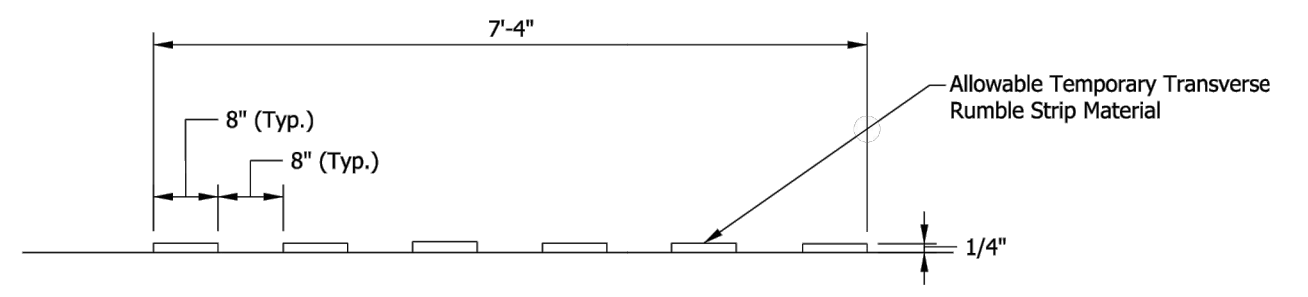
SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCDV-09

	 DESIGN STANDARDS ENGINEER DATE 06/08/22
	 CHIEF ENGINEER DATE 06/27/2022



SECTION B-B



LEGEND

→ Direction of Traffic

INDIANA DEPARTMENT OF TRANSPORTATION

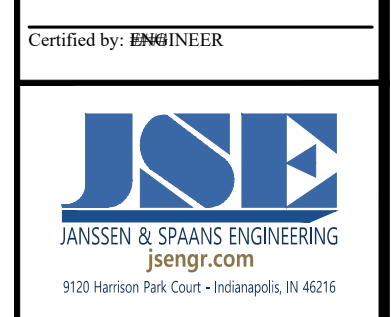
TEMPORARY TRANSVERSE RUMBLE STRIPS

SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCDV-10

	 DESIGN STANDARDS ENGINEER DATE 06/08/22
	 CHIEF ENGINEER DATE 06/27/2022

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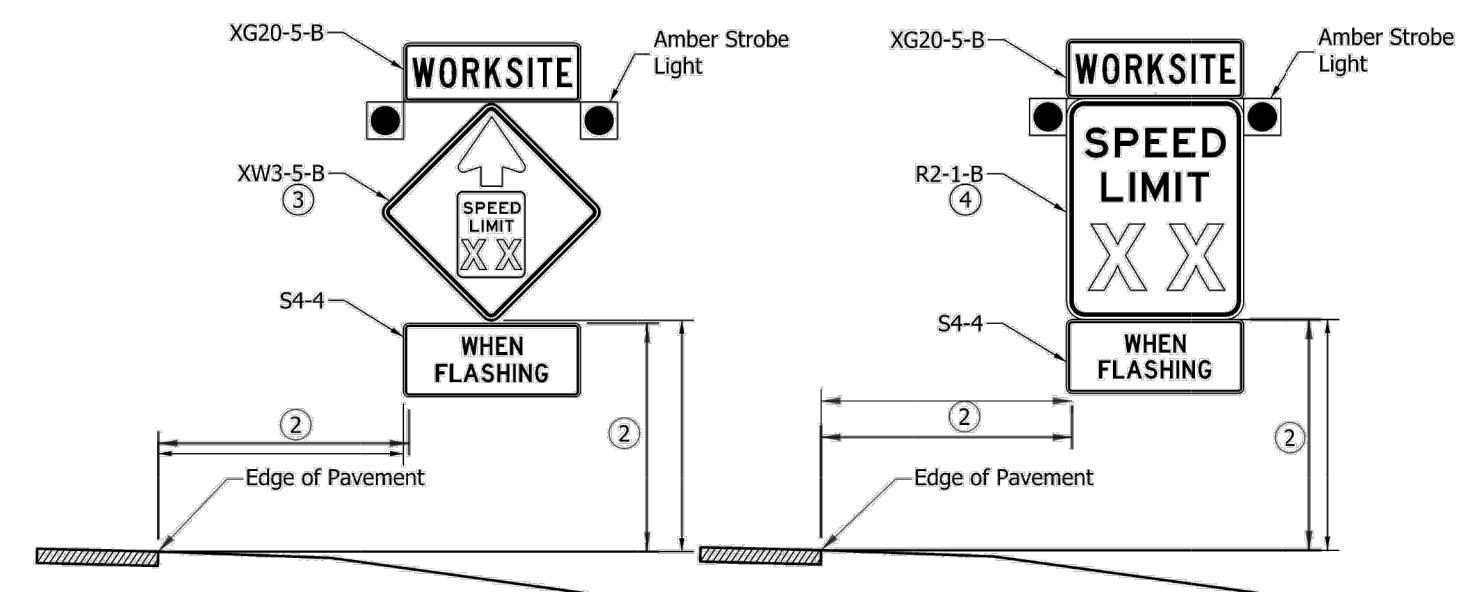


PUBLIC WORKS PROJECT NO. 89006007-23-034-C1  
 CENTERVILLE WELCOME CENTER  
 CENTERVILLE, INDIANA



Revisions:

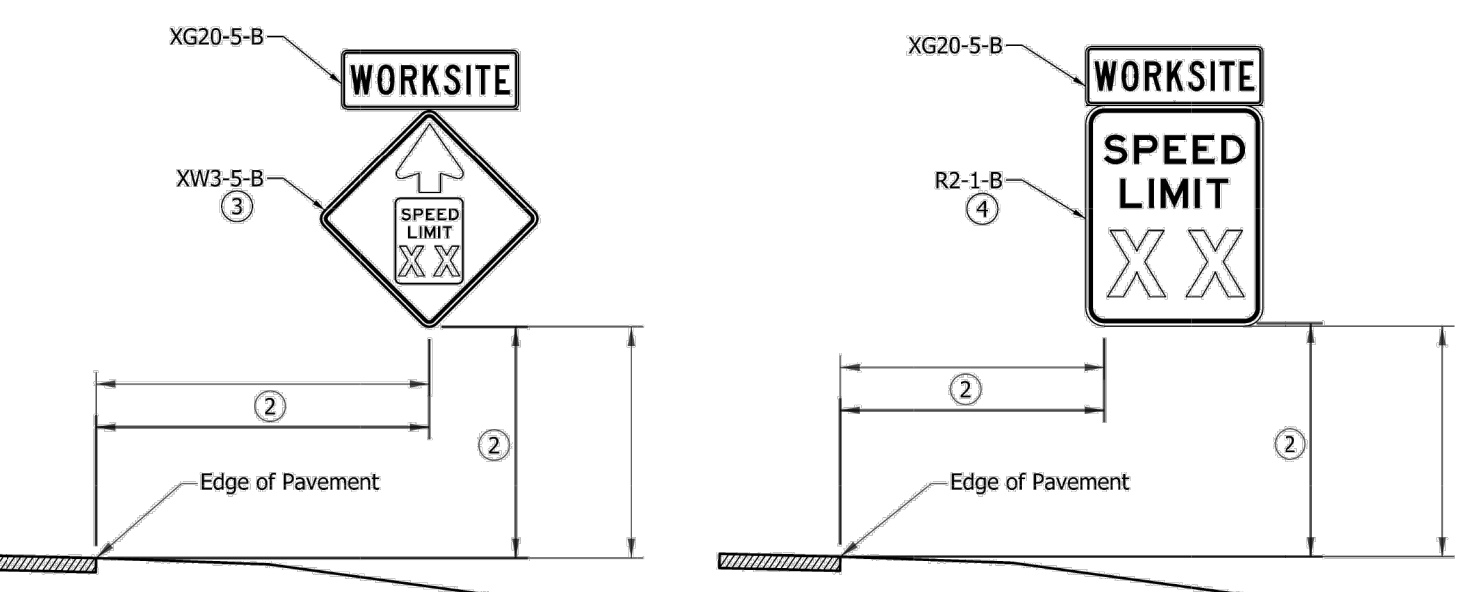
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Requisition Number:	
Account Number:	
Designer:	ID
Drawing Date:	8/30/2024
Drafter:	JRC
Drawing Scale:	N/A
DAPW Approval:	
Client Approval:	
Reference Number:	1394
Building Reference:	
Drawing Number:	CS141
Sheet:	119 of 140



REDUCED SPEED ADVANCE WARNING SIGN ASSEMBLY

WORKSITE SPEED LIMIT SIGN ASSEMBLY

INTERMITTENT USE TYPE



REDUCED SPEED ADVANCE WARNING SIGN ASSEMBLY

WORKSITE SPEED LIMIT SIGN ASSEMBLY

CONTINUOUS USE TYPE

- NOTES:**
1. If not trailer mounted, signs and supports shall satisfy NCHRP 350 or MASH crash evaluation criteria.
  2. See Standard Drawing E 801-TCDV-06 for lateral and vertical placement.
  3. The speed limit on advance warning signs shall match the worksite speed limit signs.
  4. The worksite speed limit shall be at least 10 mph but no more than 15 mph below the permanent posted speed limit for the roadway under construction unless otherwise shown on the plans.
  5. Sign series shown is for freeway or expressway application.

INDIANA DEPARTMENT OF TRANSPORTATION

WORKSITE SPEED LIMIT SIGN ASSEMBLY

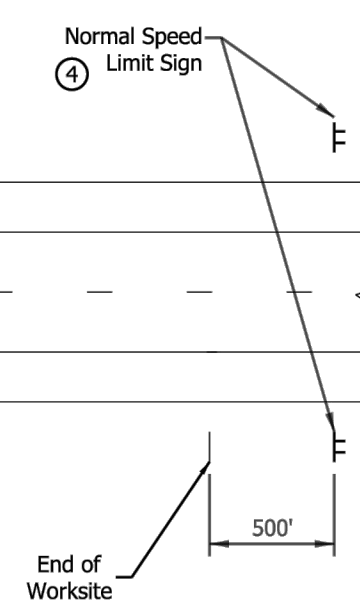
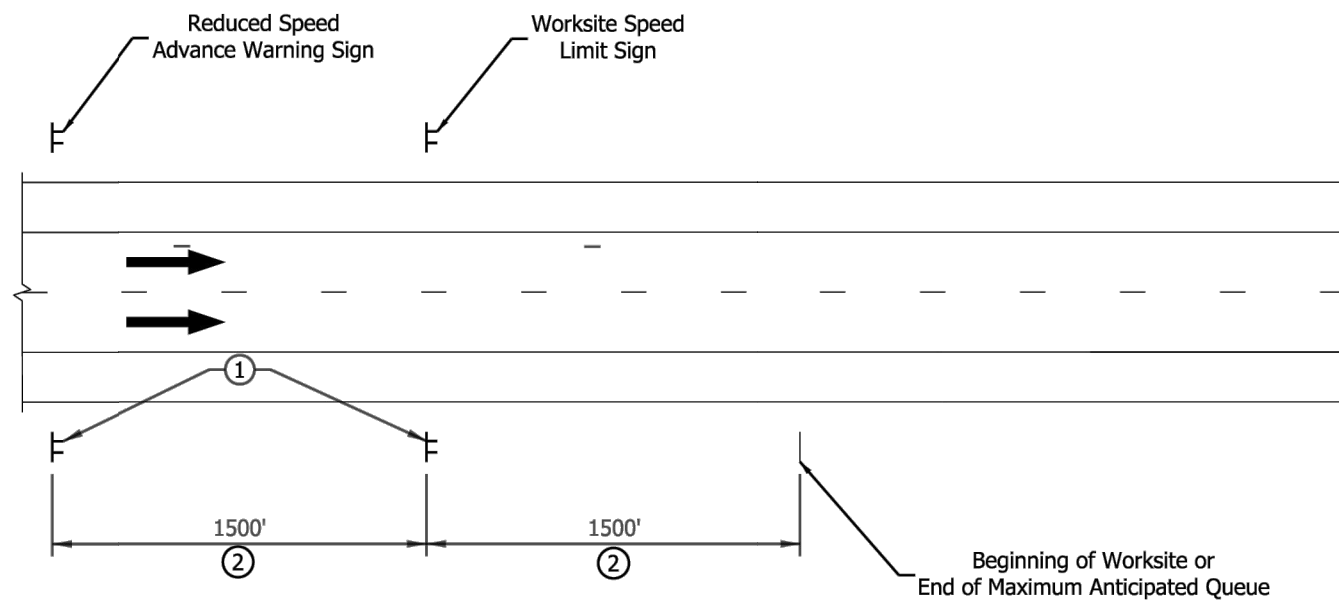
SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCDV-11

DAVID H. BORUFF  
REGISTERED  
No. 60900348  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

David H. Boruff  
DESIGN STANDARDS ENGINEER  
DATE 06/08/22

Chief Engineer  
DATE 06/27/2022



- NOTES:**
1. Worksite speed limit sign assemblies shall be placed on both sides of the directional lanes when multiple lanes traveling in the same direction are open to traffic. For undivided roadways, or on roadways where a single lane is open in one direction, assemblies are required on only one side of the roadway.
  2. Assembly spacing may be reduced using Distance B from Table 6C-1 of the IMUTCD for Urban and Rural Roadways.
  3. Worksite speed limit sign assemblies shall be placed 500 ft beyond each crossroad or the last entrance ramp for each interchange, at 1 mile intervals throughout the worksite, or adjacent to the existing normal speed limit signs.
  4. For a rural Interstate route application, a truck speed limit sign shall be used and placed immediately to the right of the normal speed limit sign.
  5. See Standard Drawing E 801-TCDV-11 for worksite speed limit sign assembly.

INDIANA DEPARTMENT OF TRANSPORTATION

WORKSITE SPEED LIMIT SIGN ASSEMBLY LONGITUDINAL PLACEMENT

SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCDV-12

DAVID H. BORUFF  
REGISTERED  
No. 60900348  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

David H. Boruff  
DESIGN STANDARDS ENGINEER  
DATE 06/08/22

Chief Engineer  
DATE 06/27/2022

**GENERAL NOTES:**

1. Distances shown are typical except minimum distances may be varied based on field conditions.
2. The spacing of channelizing devices shall be 100 ft where the posted speed limit is 50 m.p.h. or greater.
3. The spacing of channelizing devices shall be 50 ft where the posted speed limit is less than or equal to 45 m.p.h.
4. The spacing of channelizing devices on tapers shall be numerically equal in feet to the posted speed limit in m.p.h.
5. The flashing arrow sign shall not be placed on a sidewalk. The flashing arrow sign shall be placed at a distance of L/3 from the beginning of the taper, where L is the merge taper, see Standard Drawing E 801-TCDV-03.
6. For temporary lane closures during daylight hours, cones or tubular markers may be used in lieu of drums.
7. Temporary pavement markings shall not be required for temporary daylight lane closures.
8. Temporary highway illumination, when specified, shall be as detailed on the plans.
9. Once the crossovers have been removed, this line shall be restriped yellow if the pavement is to be used for one-way traffic.
10. For Temporary Crossover Type B, this line shall be removed when the traffic pattern is switched.
11. The advisory speed plate will not be required when the existing posted speed limit is less than 55 mph.
12. Spacing of channelizing devices at this location shall be 20 ft.
13. The "Two-Way Traffic" (XW6-3B) and "Do Not Pass" (R4-1-B) signs shall alternate every 2640 ft throughout the two-lane two-way operation.
14. For a bridge contract, this distance may be adjusted by the Engineer as required. However, it shall be as close to the minimum as possible.
15. Once the crossovers have been removed, this line shall be restriped broken white, if the pavement is to be used for one-way traffic.

SURFACE AREA OF ONE TYPE A TEMPORARY CROSSOVER, SYS

MEDIAN WIDTH, ft	TYPE A
60	1208
50	1041
40	880
36	814
30	713
26	648

**LEGEND**

- Flagger
- Work area
- Flashing arrow sign
- Channelizing device
- Police car (optional)
- Construction sign and supports
- W = Width of offset
- Temporary Pavement Marking
- Removal of pavement markings and prismatic reflectors
- Typical Sign Standard (Road Closure Sign Assembly)
- Type III-A or Type III-B Barricades as required
- Double Headed Flashing Arrow Sign
- Direction of Traffic
- Low Intensity construction warning light, Type A

INDIANA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL LEGEND AND GENERAL NOTES

SEPTEMBER 2016

STANDARD DRAWING NO. E 801-TCLG-01

David H. Boruff  
REGISTERED  
No. 60900348  
STATE OF INDIANA  
PROFESSIONAL ENGINEER

David H. Boruff  
DESIGN STANDARDS ENGINEER  
DATE 03/02/16

Mark A. Miller  
CHIEF ENGINEER  
DATE 03/02/16

**INDEX**

SHEET NO.	SUBJECT
1	Shoulder Closures, Index and General Notes
2	Advance Signing for Interstate Shoulder Closures
3	Shoulder Closure on Freeway or Expressway
4	Freeway Shoulder Closure for Roadside Work
5	Shoulder Closure on Divided Highway with Local Access
6	Shoulder Closure on Two-Lane Highway with Local Access

**LEGEND**

- Temporary Traffic Barrier
- Channelizing Device
- Construction Sign and Supports
- Construction Warning Light, Type A
- Direction of Traffic
- Crash Cushion
- Work Area

**GENERAL NOTES:**

1. Unless otherwise noted, the spacing of channelizing devices in tangent sections shall be 100 ft where the posted speed limit is 50 mph or greater, and the spacing shall be 50 ft where the posted speed limit is less than or equal to 45 mph.
2. Unless otherwise noted, the spacing of channelizing devices in tapers shall be equal in feet to 1.0 times the posted speed limit in mph.
3. Channelizing devices as shown are schematic, the number of channelizing devices will vary based on field conditions.
4. The longitudinal buffer space is an area that provides recovery space for an errant vehicle. Values in the table below may be used to determine the length of the longitudinal buffer.

**LONGITUDINAL BUFFER LENGTH**

Posted Speed Limit (mph)	Length (ft)
≤30	200
35	250
40	305
45	360
50	425
55	495

INDIANA DEPARTMENT OF TRANSPORTATION

SHOULDER CLOSURES, INDEX AND GENERAL NOTES

SEPTEMBER 2022

STANDARD DRAWING NO. E 801-TCSC-01

DAVID H. BORUFF  
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DATE 05/17/22

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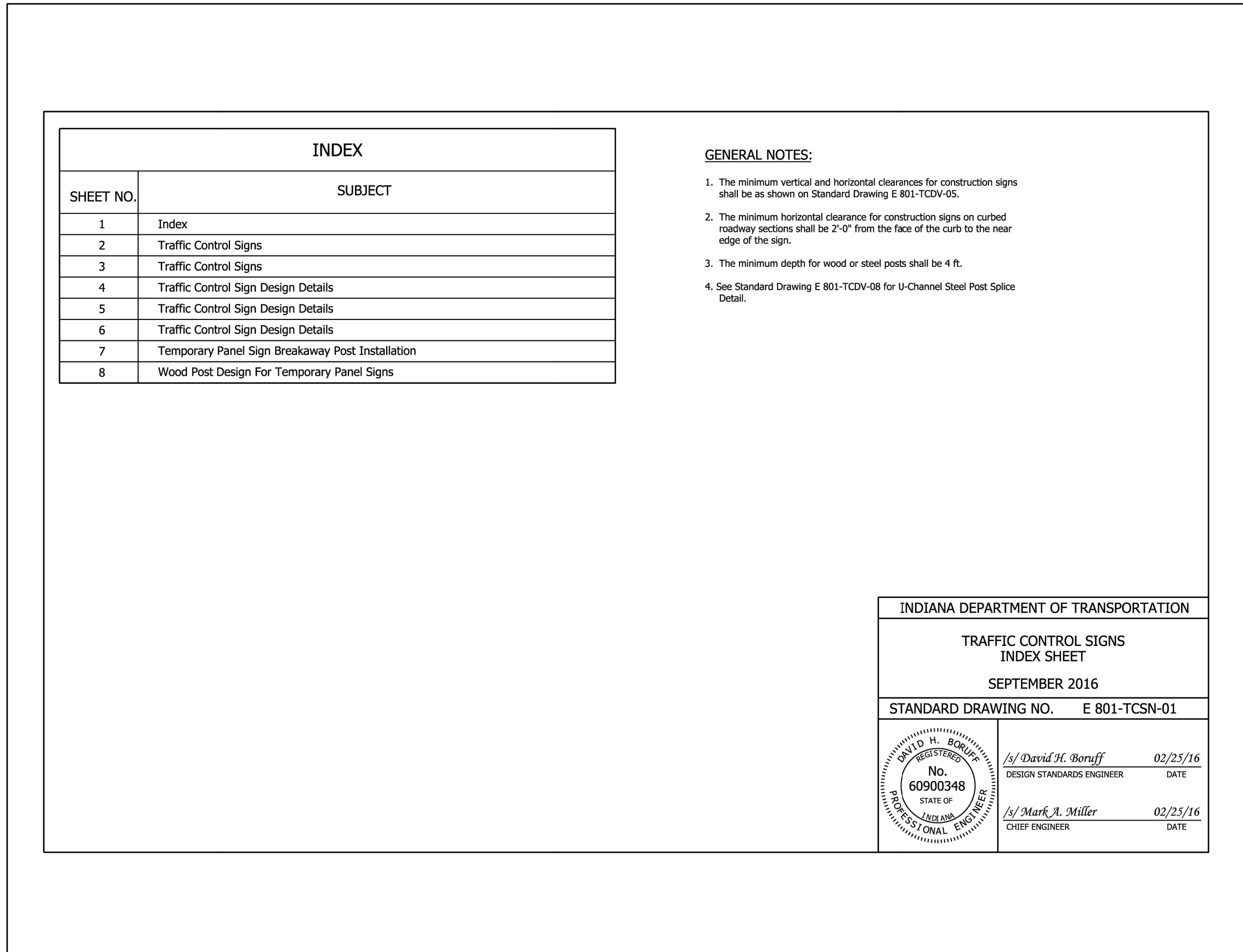
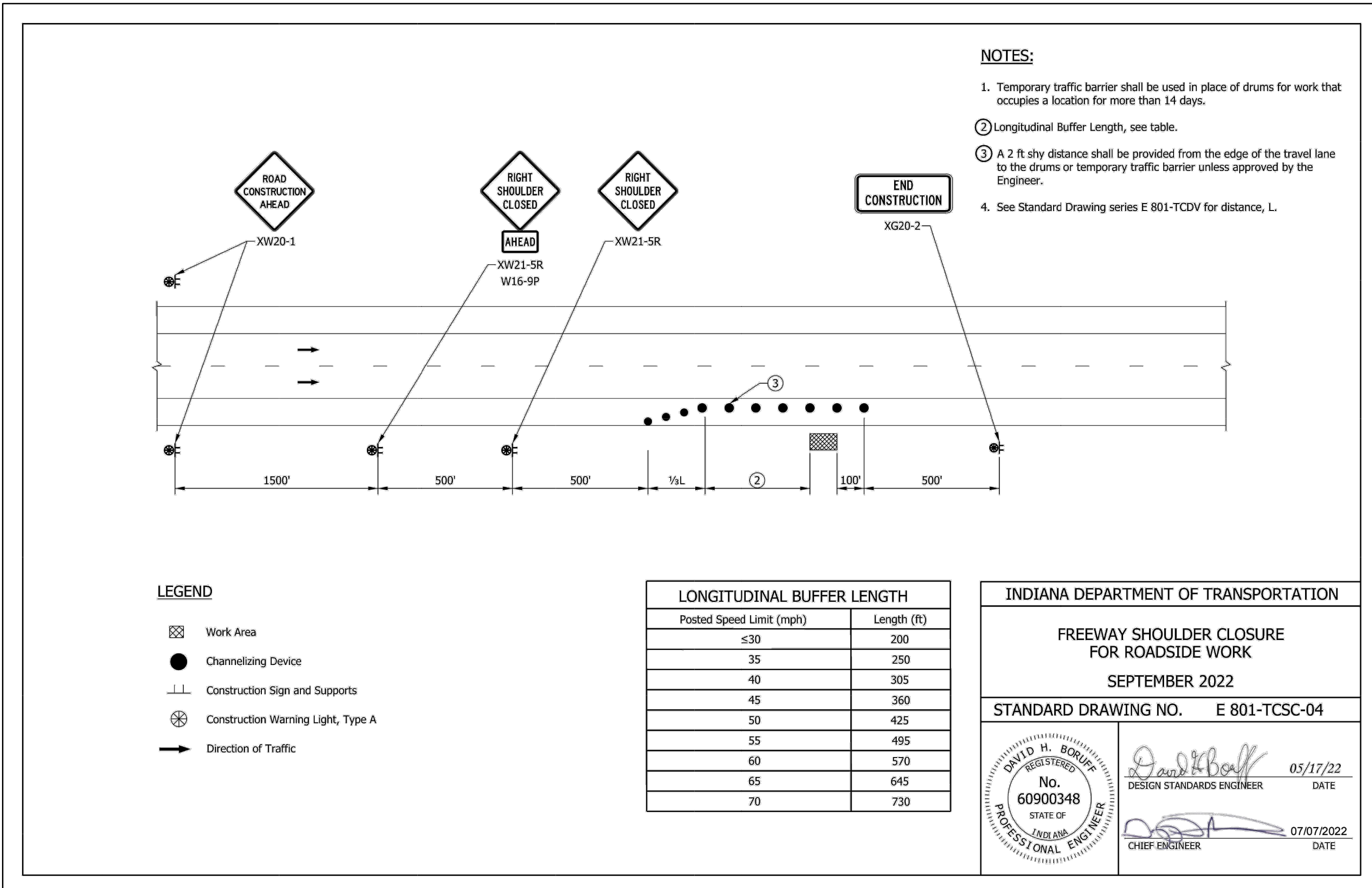
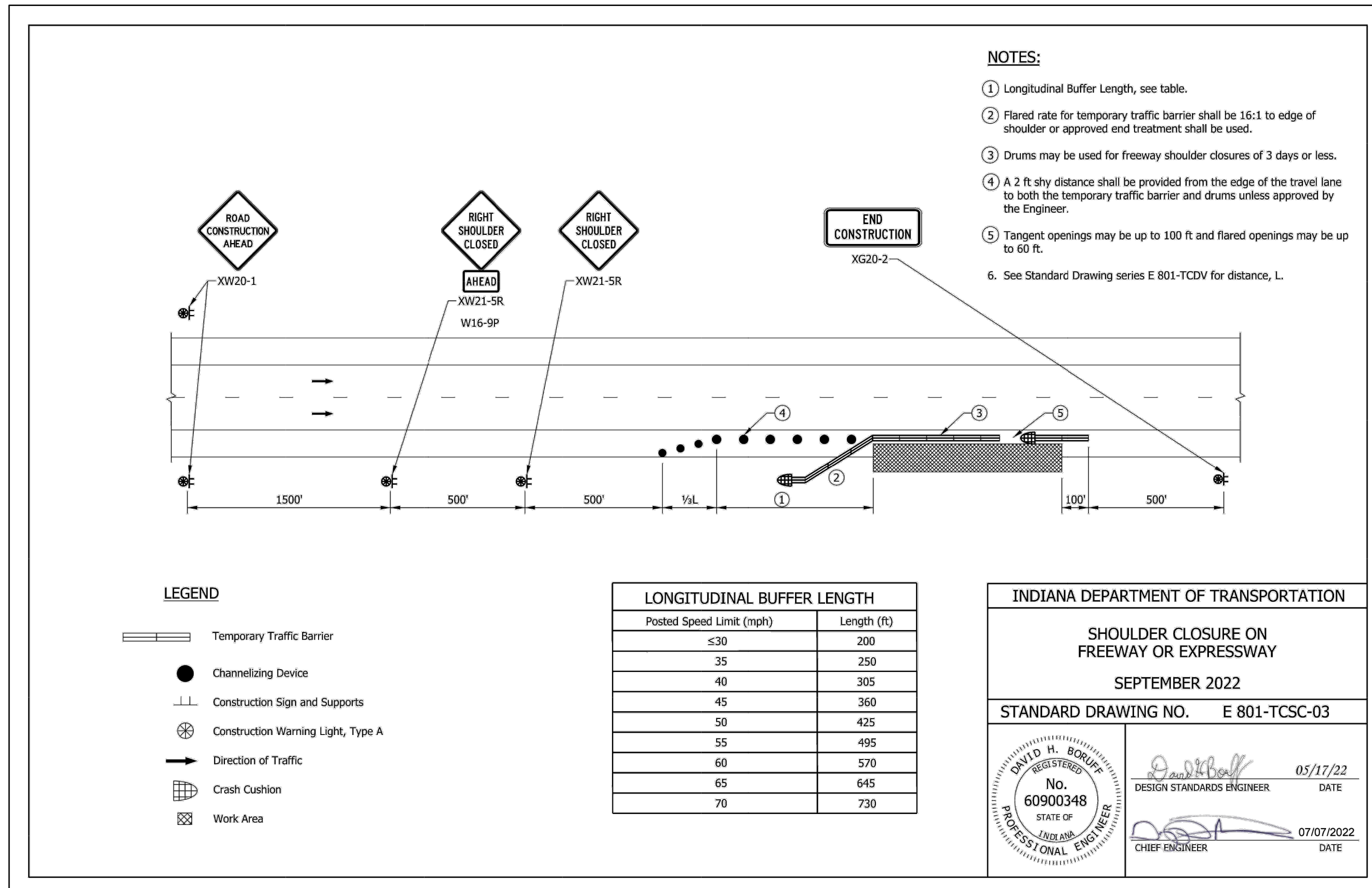
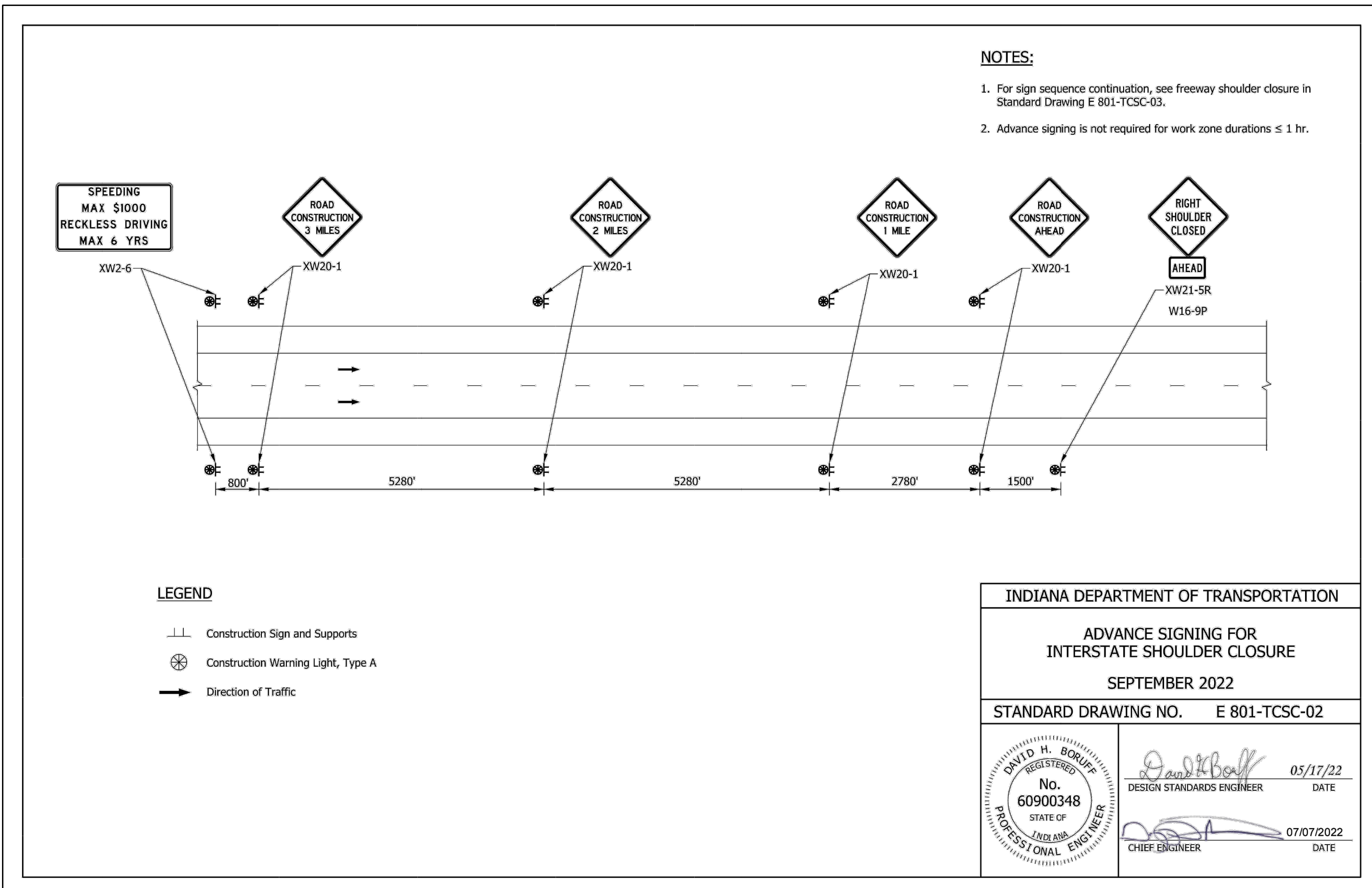
PUBLIC WORKS PROJECT NO. 89006007-23-034-C1  
CENTERVILLE WELCOME CENTER  
CENTERVILLE, INDIANA

IDOA  
INDIANA DEPARTMENT OF TRANSPORTATION

INDIANA DEPARTMENT OF TRANSPORTATION

Revisions:

Project Number: 89006007-23-034-C1  
Requisition Number:  
Account Number:  
Designer: IID Drawing Date: 8/30/2024  
Draftsman: JRC Drawing Scale: N/A  
DAPW Approval:  
Client Approval:  
Reference Number: 1394  
Building Reference:  
Drawing Number:  
Sheet: 120 of 140



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PUBLIC WORKS PROJECT NO. 89006007-23-034-C1  
 CENTERVILLE WELCOME CENTER  
 CENTERVILLE, INDIANA

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**INDIANA DEPARTMENT OF TRANSPORTATION**

Revisions:

Project Number: 89006007-23-034-C1  
 Requisition Number:  
 Account Number:  
 Designer: ID Drawing Date: 8/30/2024  
 Drafter: JRC Drawing Scale: N/A  
 DAPW Approval:  
 Client Approval:  
 Reference Number: 1394  
 Building Reference:  
 Drawing Number: CS143  
 Sheet: 121 of 140

**NOTES:**

- See Standard Drawing E 801-TCSN-01 for general notes.
- Sign shall be removed, covered or turned to face away from the roadway during non-working hours.
- Sign may be ordered to read "500 FT", "1000 FT", or "1500 FT" in place of the word "AHEAD". Such Signs may be used in place of or in conjunction with the indicated sign.
- Shaded text indicates message content that must be varied to reflect site conditions.

INDIANA DEPARTMENT OF TRANSPORTATION  
TRAFFIC CONTROL SIGNS  
SEPTEMBER 2016  
STANDARD DRAWING NO. E 801-TCSN-02

David H. Boruff, Design Standards Engineer, 03/24/16  
Mark A. Miller, Chief Highway Engineer, 03/24/16

**NOTES:**

- See Standard Drawing E 801-TCSN-01 for general notes.
- Shaded text indicates message content that must be varied to reflect site conditions.

INDIANA DEPARTMENT OF TRANSPORTATION  
TRAFFIC CONTROL SIGNS  
SEPTEMBER 2016  
STANDARD DRAWING NO. E 801-TCSN-03

David H. Boruff, Design Standards Engineer, 03/24/16  
Mark A. Miller, Chief Highway Engineer, 03/24/16

SIGN NUMBER	MUTCD CODE	SIGN MESSAGE	POST DESIGN 4 X 4 STEEL	SIGN SIZE	SIGN COLOR BACKGROUND	BORDER WIDTH	MARGIN WIDTH	LETTER HEIGHT SERIES - LINE 1	LETTER HEIGHT SERIES - LINE 2	LETTER HEIGHT SERIES - LINE 3	WORD OR LINE	CORNER RADIUS	NO. OF POSTS	
													1	2
R2-1	R2-1	Speed Limit	*	A 24 X 30	White	Black								X
R2-1-B	R2-1	Speed Limit	*	B 48 X 60	White	Black								X
R3-2-A (R or L)	R3-2	(Movement Prohibition)	*	A 30 X 30	White	Black								X
R3-2-C (R or L)	R3-2	(Movement Prohibition)	*	B 48 X 48	White	Black								X
R4-1	R4-1	Do Not Pass	*	A 24 X 30	White	Black								X
R4-1-B	R4-1	Do Not Pass	*	B 48 X 60	White	Black								X
R5-1-A	R5-1	Do Not Enter	*	A 36 X 36	Red	White								X
R5-1-B	R5-1	Do Not Enter	*	B 48 X 48	Red	White								X
R5-1 (R or L)	R5-1	One Way (Red/White Arrow)	*	A 36 X 12	White	Black								X
R5-2-A (R or L)	R5-2	One Way (Above White Arrow)	*	A 24 X 30	Black & White	Black								X
R11-2	R11-2	Road Closed	*	B 48 X 30	White	Black								X
R11-3	R11-3	Road Closed - Local Traffic Only	*	B 60 X 30	White	Black								X
R11-4	R11-4	Road Closed to Thru Traffic	*	B 60 X 30	White	Black								X
R12-1	R12-1	Weight Limit - Tons	*	A 24 X 30	White	Black								X
R12-1-A	R12-1	Weight Limit - Tons	*	B 36 X 48	White	Black								X
S4-4	S4-4	When Flashing Plaque	*	- 48 X 20	White	Black								-
XW1-1-A (R or L)	W1-1	(Turn Symbol)	*	A 36 X 36	Orange	Black								X
XW1-1-B (R or L)	W1-1	(Turn Symbol)	*	B 48 X 48	Orange	Black								X
XW1-2-A (R or L)	W1-2	(Curve Symbol)	*	A 36 X 36	Orange	Black								X
XW1-2-B (R or L)	W1-2	(Curve Symbol)	*	B 48 X 48	Orange	Black								X
XW1-3-A (R or L)	W1-3	(Reverse Turn Symbol)	*	A 36 X 36	Orange	Black								X
XW1-3-B (R or L)	W1-3	(Reverse Turn Symbol)	*	B 48 X 48	Orange	Black								X
XW1-4-A (R or L)	W1-4	(Reverse Curve Symbol)	*	A 36 X 36	Orange	Black								X
XW1-4-B (R or L)	W1-4	(Reverse Curve Symbol)	*	B 48 X 48	Orange	Black								X
XW1-5	W1-5	(Single Headed Arrow)	*	B 48 X 24	Orange	Black								X
XW1-6-A	W1-6	(Single Headed Arrow)	*	B 60 X 30	Orange	Black								X
XW2-6	XW2-6	Worksite Added Penalty	*	B 60 X 36	Orange	Black	7/8	5/8	5 - Series C	5 - Series C	5 - Series C	2 1/4		X
XW2-6-A	XW2-6	Worksite Added Penalty	*	B 78 X 42	Orange	Black	7/8	5/8	6 - Series D	6 - Series D	6 - Series D	2 1/4		X
XW2-6a	XW2-6a	Speeding Max \$1000	*	A 30 X 30	Orange	Black	3/4	1/2	4 - Series C	4 - Series C		1 7/8	X	
XW2-6a-A	XW2-6a	Speeding Max \$1000	*	A 36 X 36	Orange	Black	7/8	5/8	5 - Series C	5 - Series C		2 1/4	X	
XW2-6a-B	XW2-6a	Speeding Max \$1000	*	B 48 X 48	Orange	Black	1 1/4	3/4	6 - Series D	6 - Series D		3	X	
XW2-6b	XW2-6b	Reckless Driving Max 6 Yrs	*	A 30 X 30	Orange	Black	3/4	1/2	4 - Series C	4 - Series C		1 7/8	X	
XW2-6b-A	XW2-6b	Reckless Driving Max 6 Yrs	*	A 36 X 36	Orange	Black	7/8	5/8	5 - Series C	5 - Series C		2 1/4	X	
XW2-6b-B	XW2-6b	Reckless Driving Max 6 Yrs	*	B 48 X 48	Orange	Black	1 1/4	3/4	6 - Series D	6 - Series D		3	X	

\*Wood post permitted.

INDIANA DEPARTMENT OF TRANSPORTATION  
TRAFFIC CONTROL SIGN DESIGN DETAILS  
SEPTEMBER 2016  
STANDARD DRAWING NO. E 801-TCSN-04

David H. Boruff, Design Standards Engineer, 03/24/16  
Mark A. Miller, Chief Highway Engineer, 03/24/16

SIGN NUMBER	MUTCD CODE	SIGN MESSAGE	POST DESIGN 4 X 4 WOOD	SIGN SIZE	SIGN COLOR BACKGROUND	BORDER WIDTH	MARGIN WIDTH	LETTER HEIGHT SERIES - LINE 1	LETTER HEIGHT SERIES - LINE 2	LETTER HEIGHT SERIES - LINE 3	WORD OR LINE	CORNER RADIUS	NO. OF POSTS	
													1	2
XW3-4S	-	Overhead Sign Installation	*	B 60 x 24	Orange	Black	1/2	3/8	6 - Series C	6 - Series C				X
XW3-5-A	W3-5	(Reduced Speed Limit Ahead)	*	A 36 X 36	Orange	Black								X
XW3-5-B	W3-5	(Reduced Speed Limit Ahead)	*	B 48 X 48	Orange	Black								X
XW3-5a-A	W3-5	(Reduced Speed Limit Ahead)	*	A 36 X 36	Orange	Black								X
XW3-5a-B	W3-5	(Reduced Speed Limit Ahead)	*	B 48 X 48	Orange	Black								X
XW4-1 (R or L)	W4-2	(Lane Ends Merge Symbol)	*	A 36 X 36	Orange	Black								X
XW4-2-A (R or L)	W4-2	(Lane Ends Merge Symbol)	*	B 48 X 48	Orange	Black								X
XW6-2a-A	W6-2	(Divided Highway Ends Symbol)	*	A 36 X 36	Orange	Black								X
XW6-2a-B	W6-2	(Divided Highway Ends Symbol)	*	B 48 X 48	Orange	Black								X
XW6-3-B	W6-3	(Two Way Traffic Symbol)	*	B 48 X 48	Orange	Black								X
XW8-1-A	W8-1	Bump	*	A 36 X 36	Orange	Black								X
XW8-1-B	W8-1	Bump	*	B 48 X 48	Orange	Black								X
XW8-2-A	W8-2	Dip	*	A 36 X 36	Orange	Black								X
XW8-2-B	W8-2	Dip	*	B 48 X 48	Orange	Black								X
XW8-3-A	W8-3	Flarement Ends	*	A 36 X 36	Orange	Black								X
XW8-4-A	W8-4	Soft Shoulder	*	A 36 X 36	Orange	Black								X
XW8-4-B	W8-4	Soft Shoulder	*	B 48 X 48	Orange	Black								X
XW8-6-A	W8-6	Truck Crossing	*	A 36 X 36	Orange	Black								X
XW8-6-B	W8-6	Truck Crossing	*	B 48 X 48	Orange	Black								X
XW9-1-A (R or L)	W9-1	Lane Ends	*	A 36 X 36	Orange	Black								X
XW9-1-B (R or L)	W9-1	Lane Ends	*	B 48 X 48	Orange	Black								X
XW9-2-B (R or L)	W9-2	Lane Ends Merge	*	B 48 X 48	Orange	Black								X
XW12-1-C	W12-1	Shuttle Arrow	*	B 48 X 48	Orange	Black								X
XW13-1-A	W13-1	Advisory Speed Plaque	*	A 36 X 36	Orange	Black								-
XW20-1	W20-1	Road Construction Ahead	*	B 48 X 48	Orange	Black	1 1/4	3/4	7 - Series C	7 - Series C	Construction	25	3	X
XW20-1-A	W20-1	Road Construction Ahead	*	B 60 X 60	Orange	Black	1 1/2	1	8 - Series C	8 - Series C	Construction	25	3	X
XW20-2	W20-2	Road Repairs Next Miles	*	B 48 X 48	Orange	Black	1 1/4	3/4	8 - Series C	8 - Series C		3	X	
XW20-2-A	W20-2	Detour Ahead	*	B 48 X 48	Orange	Black								X
XW20-3	W20-3	Road Closed Ahead	*	B 48 X 48	Orange	Black								X
XW20-4	W20-4	One Lane Road Ahead	*	B 48 X 48	Orange	Black								X
XW20-5 (L, C, or R)	W20-5	Lane Closed Ahead	*	B 48 X 48	Orange	Black								X
XW20-7-A	W20-7	Flagger Symbol	*	B 48 X 48	Orange	Black								X
XW20-WR(A)	-	Wide Load Restriction - Miles	*	B 48 X 48	Orange	Black	1 1/4	3/4	6 - Series D	6 - Series D		3	X	
XW20-WR(B)	-	Wide Load Over 8 Feet Exit	*	B 48 X 48	Orange	Black	1 1/4	3/4	6 - Series C	6 - Series C		3	X	
XW20-WR(C)	-	No Loads Over 11 Feet	*	B 48 X 48	Orange	Black	1 1/4	3/4	6 - Series D	6 - Series D		3	X	

\*Wood post permitted.

**NOTES:**

- Spacing between letters of this word or line shall be reduced by this percentage as shown in the FHWA document, *Standard Highway Signs*.
- See Standard Drawing E 801-TCSN-01 for additional general notes.
- All dimensions are in inches.

INDIANA DEPARTMENT OF TRANSPORTATION  
TRAFFIC CONTROL SIGN DESIGN DETAILS  
SEPTEMBER 2016  
STANDARD DRAWING NO. E 801-TCSN-05

David H. Boruff, Design Standards Engineer, 03/24/16  
Mark A. Miller, Chief Highway Engineer, 03/24/16

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Engineering Services

PUBLIC WORKS PROJECT NO. 89006007-23-034-C1  
CENTERVILLE WELCOME CENTER  
CENTERVILLE, INDIANA

**IDOA**

INDIANA DEPARTMENT OF TRANSPORTATION

Revisions:

Project Number: 89006007-23-034-C1  
Requestion Number:

Account Number:

Designer: JID Drawing Date: 8/30/2024  
Drafter: JRC Drawing Scale: N/A

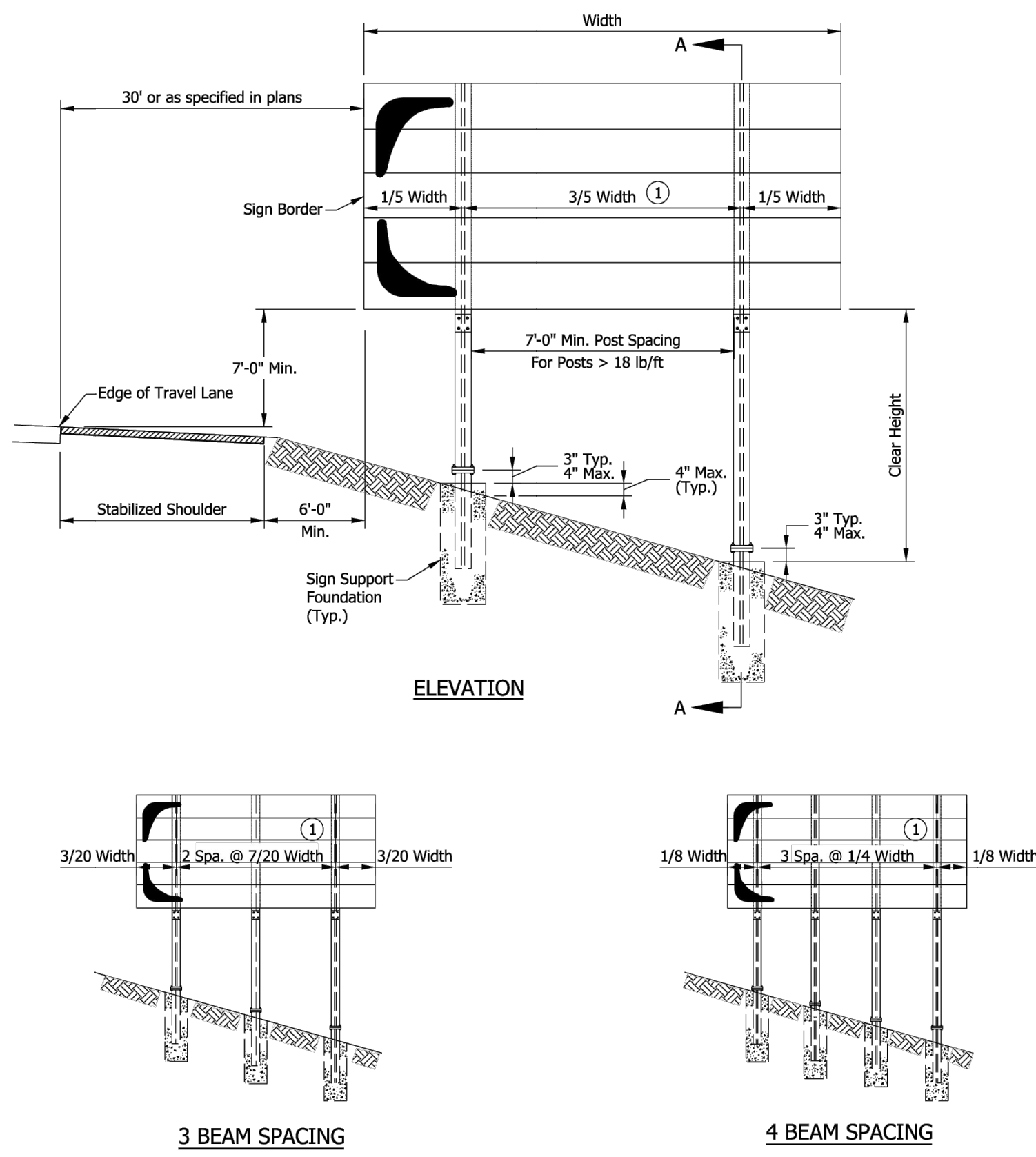
DAPW Approval:

Client Approval:

Reference Number: 1394  
Building Reference:

Drawing Number: CS144  
Sheet: 122 of 140





- NOTES:**
- For beams that have a unit weight greater than 18 lbs per foot the minimum beam spacing shall be 7 ft.
  - For sign post clip details see Standard Drawing E 802-SNGP-07.
  - See Detail A on Standard Drawing E 802-SNGP-05.
  - See keynote ③ on Standard Drawing E 802-SNGP-05.
  - Clear height is based on the longest post.

INDIANA DEPARTMENT OF TRANSPORTATION

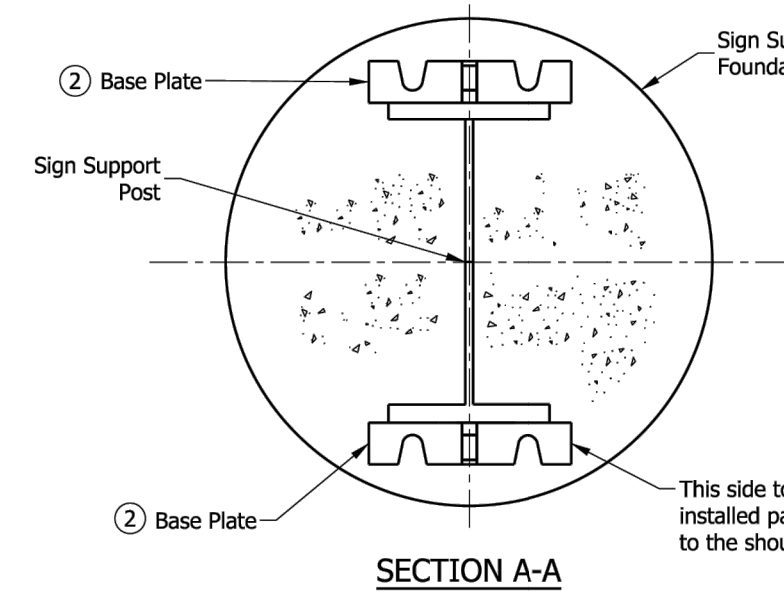
**WIDE FLANGE SIGN SUPPORT PLACEMENT AND POST SPACING**

SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGP-02

/s/ David H. Boruff 03/17/17  
 DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17  
 CHIEF ENGINEER DATE



- NOTES:**
- Stubs shall be plumb and base plate shall be leveled and physically level until the concrete sets.
  - See Standard Drawing E 802-SNGP-04 for base plate and stiffener plate details, including weld thickness and bolt diameter.
  - See Foundation Data table on Standard Drawing E 802-SNGP-16 for stub length and foundation dimensions.

**PROCEDURE FOR ASSEMBLY OF BASE CONNECTION:**

- The contractor shall bolt post to stub. One flat washer on each bolt shall be placed between the top of the keeper plate and bottom of the top base plate. Shim as required to plumb post.
- All bolts shall be tightened in accordance to 711.65(d).
- Threads at junction with nuts shall be burred using a center punch to prevent nut loosening.

INDIANA DEPARTMENT OF TRANSPORTATION

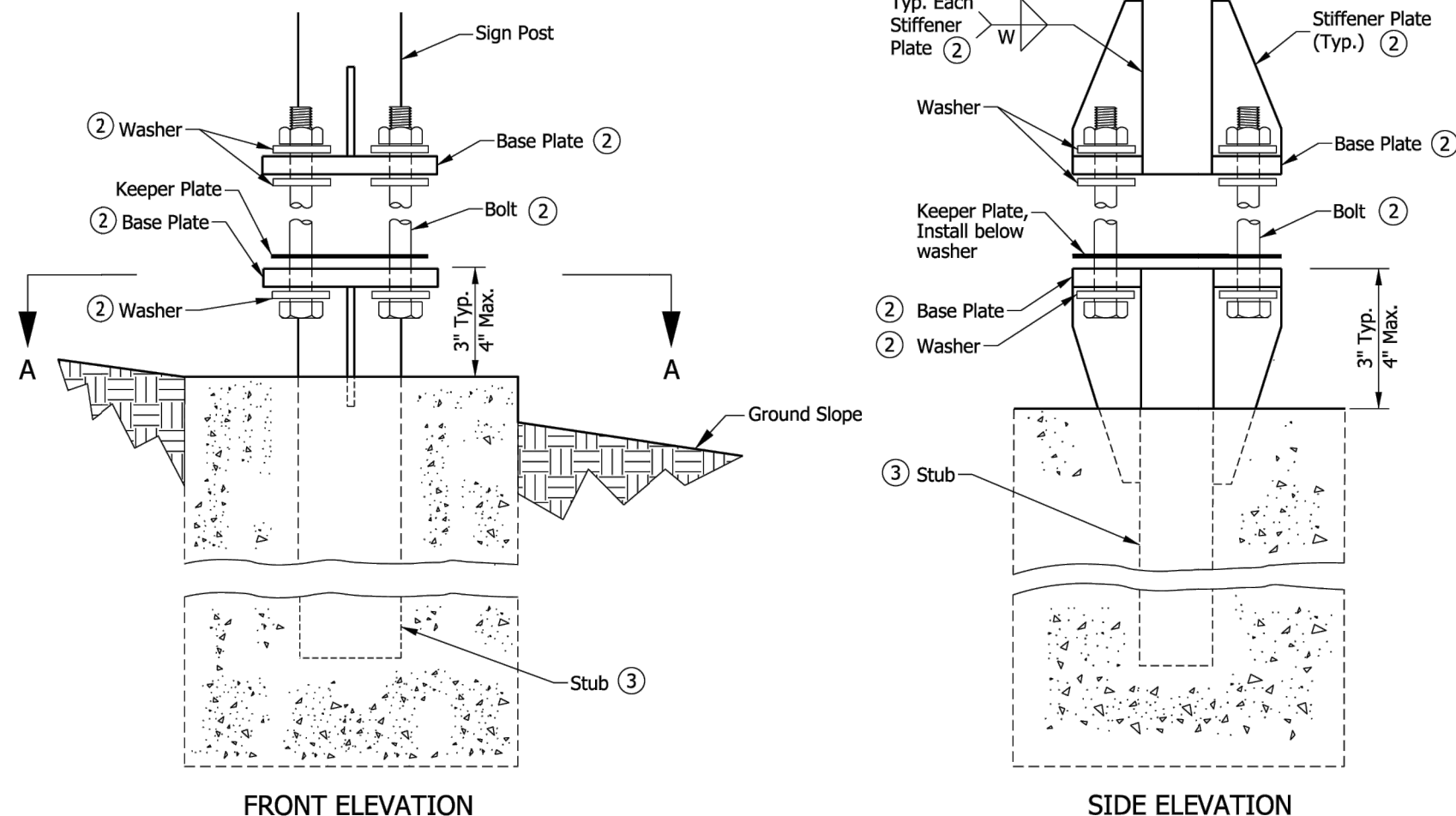
**WIDE-FLANGE SIGN SUPPORT BASE CONNECTION**

SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGP-03

/s/ David H. Boruff 03/17/17  
 DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17  
 CHIEF ENGINEER DATE



INDIANA DEPARTMENT OF TRANSPORTATION

**WIDE-FLANGE SIGN SUPPORT FUSE/HINGE PLATE CONNECTION**

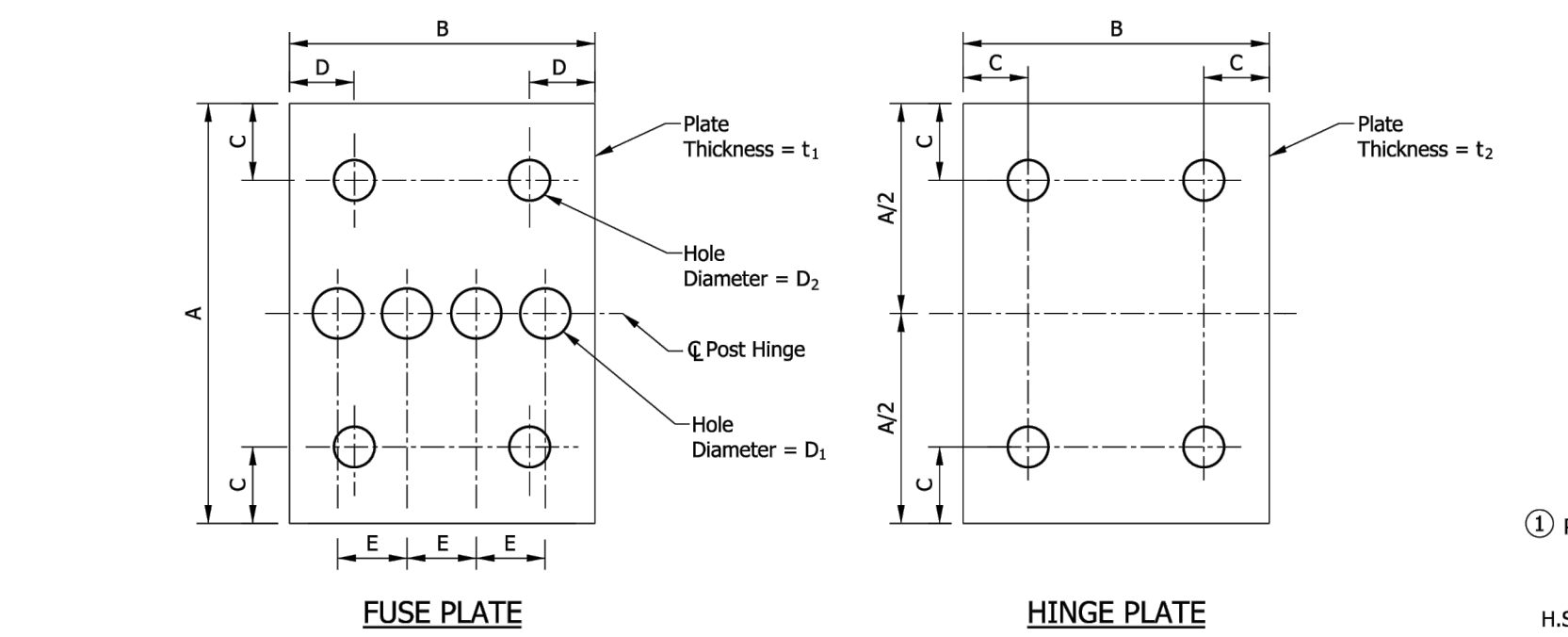
SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGP-05

/s/ David H. Boruff 03/17/17  
 DESIGN STANDARDS ENGINEER DATE

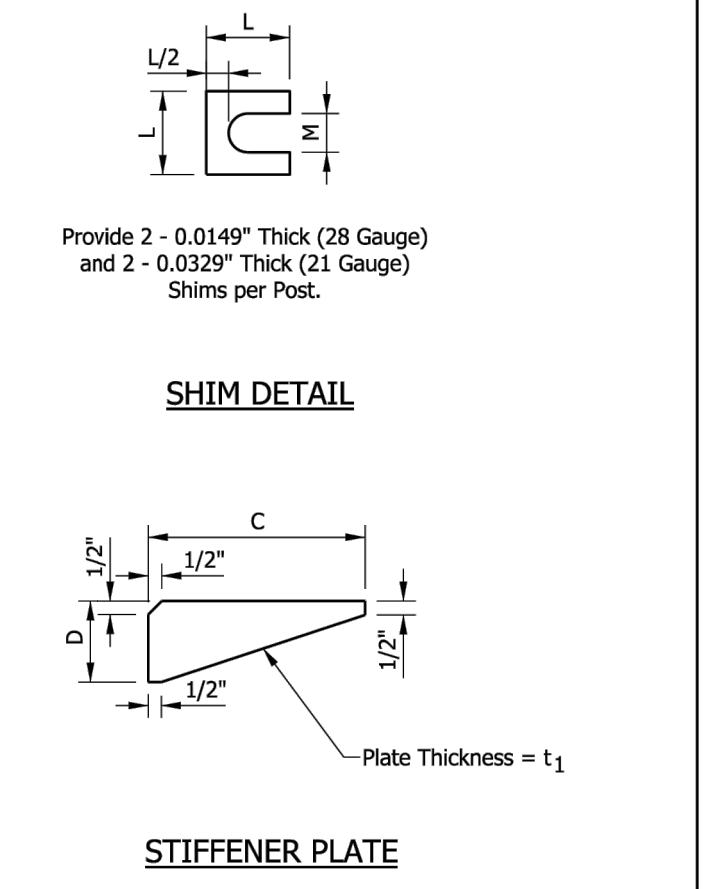
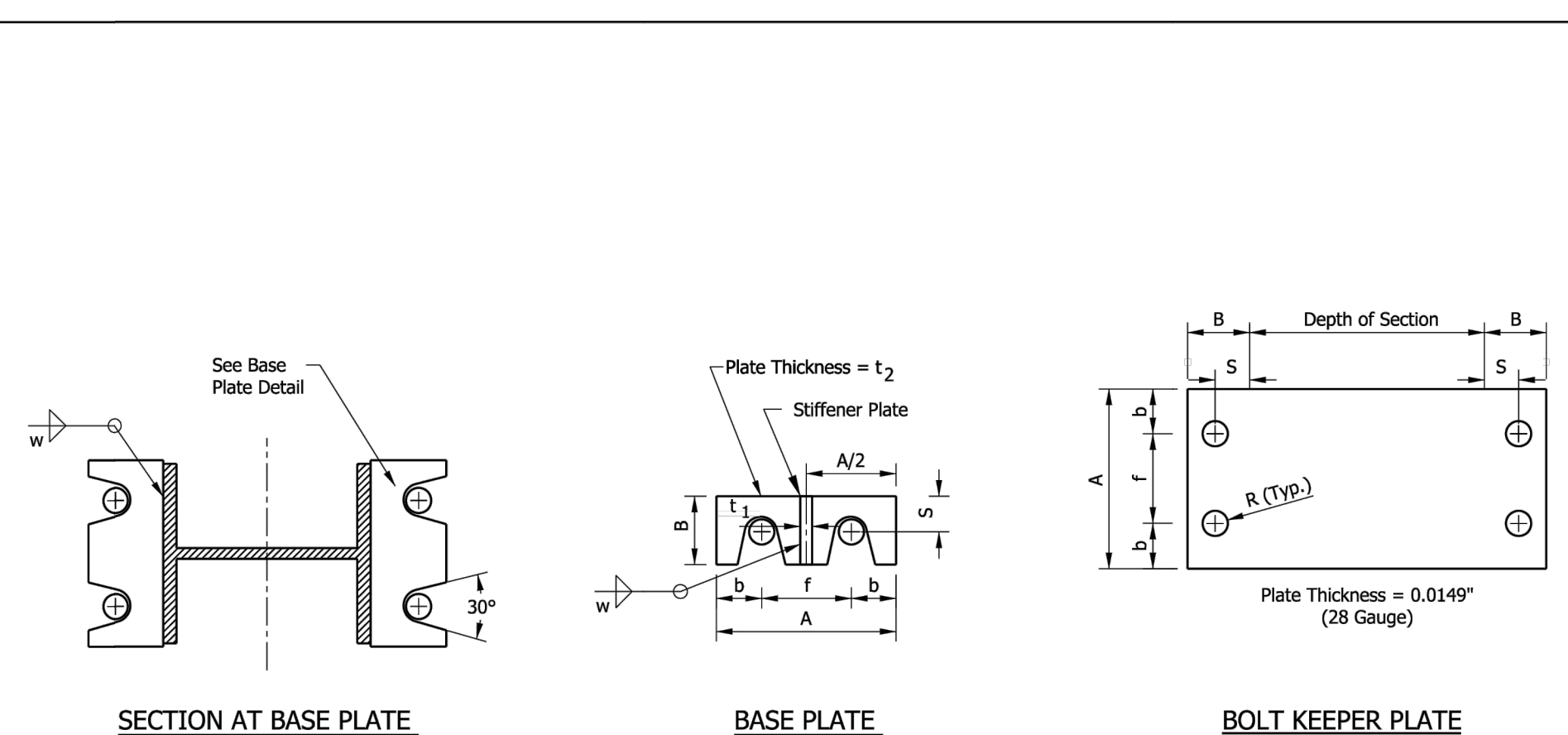
/s/ John Leckie 04/10/17  
 CHIEF ENGINEER DATE

- NOTES:**
- The distance from the top of the fuse plate and the hinge plate to the bottom of the sign shall be the same for all posts.
  - The upper and middle W-Beam sections at the fuse plate/hinge plate connection shall fit flush. Any variation shall not exceed 0.0625 in.
  - For assemblies in medians or along undivided highways, perforated fuse plates shall be used on the front and back sides of the upper joint.



FUSE AND HINGE PLATE DATA

Post Size	A	B	C	D	E	t <sub>1</sub> fuse plate	t <sub>2</sub> hinge plate	D <sub>1</sub>	D <sub>2</sub>	Bolt Diameter	Wt. of Fuse Plate & Hinge Plate Per Post (lb)	Bolt Tension (lbs)
W 6x9	4-1/4"	4"	1-1/8"	7/8"	1"	1/4"	1/4"	3/4"	9/16"	1/2"	4.80	12,050
W 6x12	7-1/4"	4"	1-1/4"	7/8"	15/16"	3/8"	3/8"	13/16"	11/16"	5/8"	6.16	19,200
W 8x18	8-1/4"	5-1/4"	1-3/8"	1-1/8"	1-1/4"	3/8"	3/8"	1"	13/16"	3/4"	9.20	28,400
W 8x24	8-1/4"	6-1/2"	1-3/8"	1-1/2"	1-1/2"	1/2"	1/2"	1"	13/16"	3/4"	15.20	28,400
W 10x33	9-1/4"	8"	2"	1-3/4"	1-3/4"	5/8"	5/8"	1-1/8"	1-1/16"	1"	26.20	39,250
W 12x45	11"	8"	2"	1-3/4"	1-3/4"	3/4"	3/4"	1-5/16"	1-1/16"	1"	37.40	51,500



BASE CONNECTION DATA

Post Size	A	B	C	D	Bolt Dia.	Torque (lb <sup>ft</sup> /in)	R	b	f	S	t <sub>1</sub>	t <sub>2</sub>	w	L	M	Wt. of Base Plate, Stiffener, & Misc. Hardware Per Post (lb)
W 6x9	4-1/2"	2"	4-1/2"	2"	1/2"	140 ± 20	9/32"	1"	2-1/2"	1-3/8"	1/2"	1/2"	3/16"	1-3/4"	13/16"	8.43
W 6x12	4-3/4"	2"	5-1/8"	2"	5/8"	270 ± 45	3/8"	1-1/8"	2-1/2"	1-3/16"	1/2"	1/2"	1/4"	1-3/8"	11/16"	9.02
W 8x18	5-3/4"	2-3/16"	6-1/4"	2-3/16"	3/4"	445 ± 75	7/16"	1-1/2"	2-3/4"	1-3/8"	1/2"	5/8"	1/4"	1-3/4"	13/16"	13.71
W 8x24	7"	2-3/8"	8"	2-3/8"	3/4"	445 ± 75	7/16"	1-3/4"	3-1/2"	1-3/8"	1/2"	3/4"	5/16"	2-1/8"	13/16"	20.70
W 10x33	8"	2-3/4"	8"	2-3/4"	1"	580 ± 90	9/16"	2"	4"	1-9/16"	1/2"	3/4"	5/16"	2-3/8"	1-1/16"	26.08
W 12x45	8"	3"	8"	3"	1"	580 ± 90	9/16"	2"	4"	1-9/16"	1/2"	3/4"	5/16"	2-3/4"	1-1/16"	28.35

INDIANA DEPARTMENT OF TRANSPORTATION

**WIDE-FLANGE SIGN SUPPORT BASE CONNECTION DIMENSIONS**

SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGP-04

/s/ David H. Boruff 03/17/17  
 DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17  
 CHIEF ENGINEER DATE



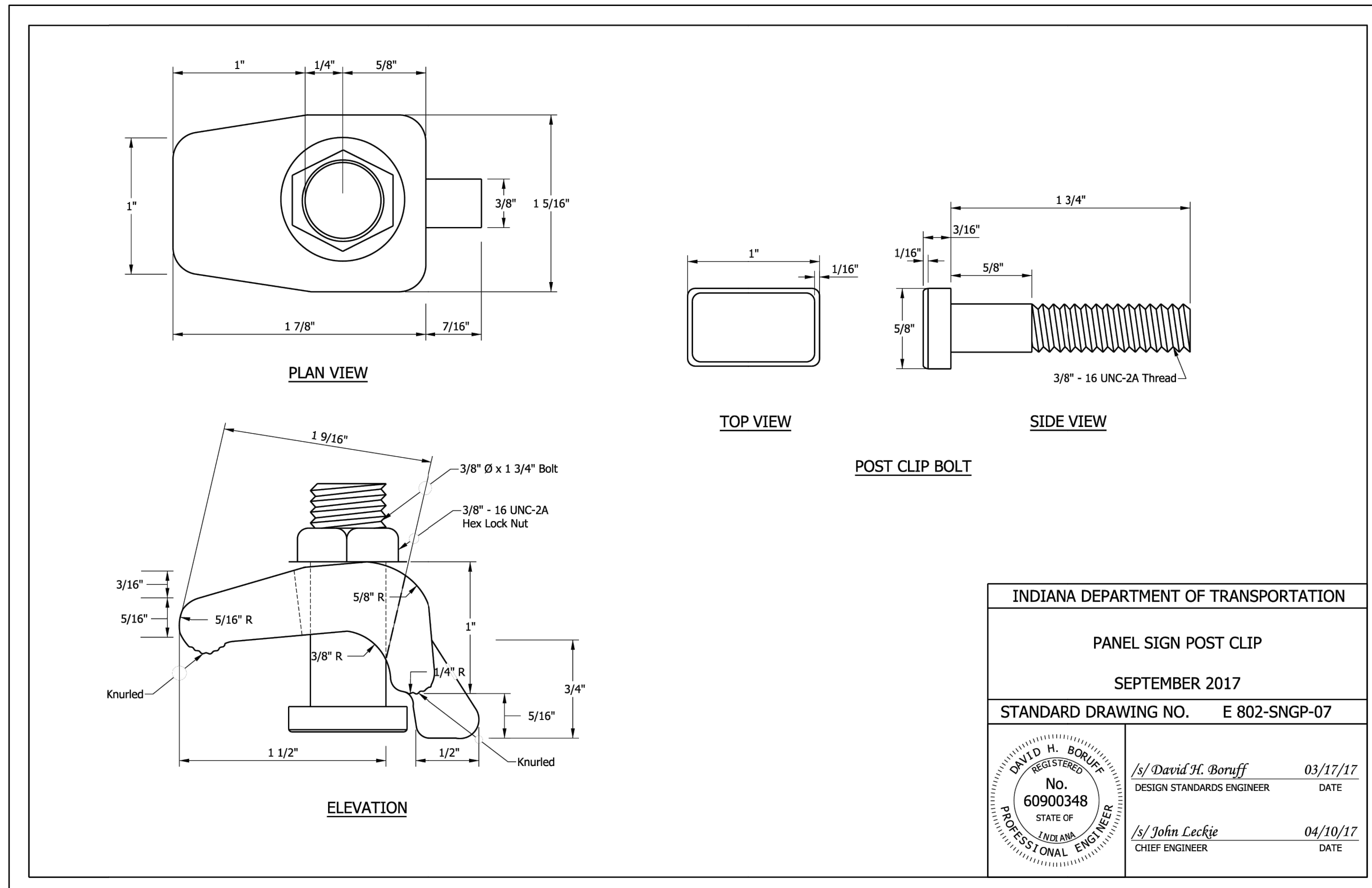
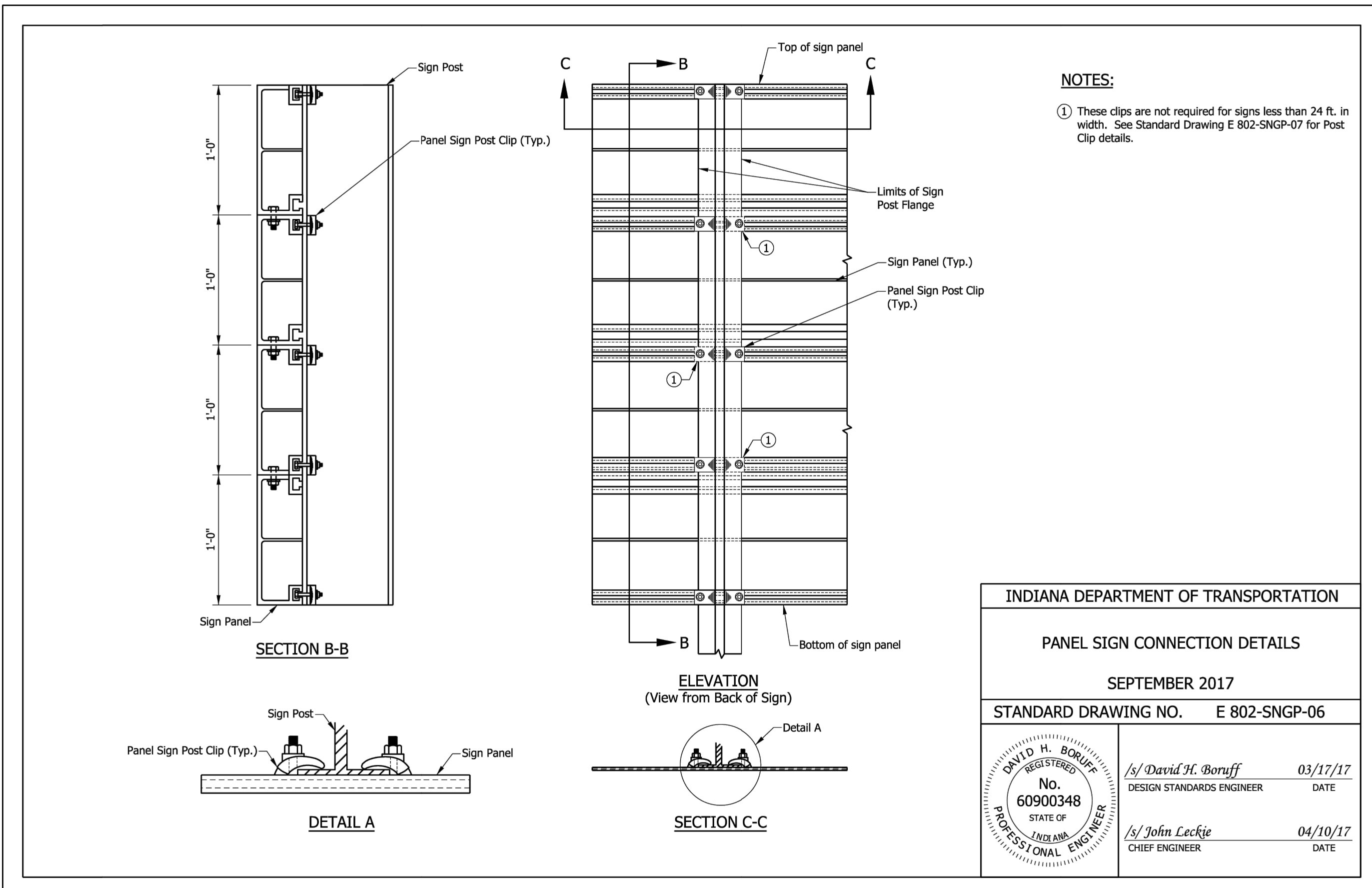
PUBLIC WORKS PROJECT NO. 89006007-23-034-C1  
 CENTERVILLE WELCOME CENTER  
 CENTERVILLE, INDIANA



Revisions:

Project Number:	89006007-23-034-C1
Requestion Number:	
Account Number:	
Designer:	ID
Drawing Date:	8/30/2024
Drafter:	JRC
Drawing Scale:	N/A
DAPW Approval:	
Client Approval:	
Reference Number:	1394
Building Reference:	
Drawing Number:	CS146





**NOTES:**

- Clear height is the distance from the top of foundation to bottom of sign.
- Table entries are number of posts- post size.
- Sign dimensions and clear height should be rounded up to the nearest even number.

Sign Height (ft)	Sign Width (ft)												
	6	8	10	12	14	16	18	20	22	24	26	28	30
4	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9
6	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x12	2- W6x12	2- W6x12	2- W6x12
8	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18
10	2- W6x9	2- W6x9	2- W6x9	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18
12	2- W6x9	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x24	2- W8x24	2- W8x24	2- W10x33	2- W10x33
14	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x24	2- W8x24	2- W8x24	2- W8x24	2- W10x33	2- W10x33	2- W10x33	2- W10x33
16	2- W8x18	2- W8x18	2- W8x18	2- W8x24	2- W8x24	2- W8x24	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
18	2- W8x18	2- W8x18	2- W8x24*	2- W8x24	2- W8x24	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
20	2- W8x18	X	2- W8x24*	2- W8x24	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W12x45	2- W12x45
22	X	X	2- W8x24*	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W12x45	2- W12x45	3- W10x33	3- W10x33
24	X	X	2- W10x33*	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W12x45	2- W12x45	3- W10x33	3- W10x33	4- W10x33
26	X	X	2- W10x33*	2- W10x33	2- W10x33	2- W10x33	2- W12x45	2- W12x45	3- W10x33	3- W10x33	4- W10x33	4- W10x33	4- W10x33
28	X	X	2- W10x33*	2- W10x33	2- W10x33	2- W12x45	2- W12x45	3- W10x33	X	X	4- W10x33*	4- W10x33*	X
30	X	X	2- W10x33*	2- W10x33	2- W12x45	2- W12x45	X	X	X	X	X	X	X

X Standard size not available  
 \* Post spacing shall be 7'-0"

**INDIANA DEPARTMENT OF TRANSPORTATION**  
**WIDE-FLANGE SIGN SUPPORT POST SELECTION TABLE**  
 CLEAR HEIGHT = 8 FT  
 SEPTEMBER 2017  
 STANDARD DRAWING NO. E 802-SNGP-08

Professional Engineer stamps for David H. Boruff (No. 60900348) and John Leckie (No. 04/10/17).

**NOTES:**

- Clear height is the distance from the top of foundation to bottom of sign.
- Table entries are number of posts- post size.
- Sign dimensions and clear height should be rounded up to the nearest even number.

Sign Height (ft)	Sign Width (ft)												
	6	8	10	12	14	16	18	20	22	24	26	28	30
4	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x12	2- W6x12
6	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x12	2- W6x12	2- W6x12	2- W6x12	2- W8x18	2- W8x18	2- W8x18
8	2- W6x9	2- W6x9	2- W6x9	2- W6x12	2- W6x12	2- W6x12	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18
10	2- W6x9	2- W6x12	2- W6x12	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18
12	2- W6x12	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x24	2- W10x33	2- W10x33	2- W10x33	2- W10x33
14	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x24	2- W8x24	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
16	2- W8x18	2- W8x18	2- W8x18	2- W8x24	2- W8x24	2- W8x24	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
18	2- W8x18	2- W8x18	2- W8x24*	2- W8x24	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W12x45
20	2- W8x18	X	2- W8x24*	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W12x45	2- W12x45	3- W10x33
22	X	X	2- W10x33*	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W12x45	3- W10x33	3- W10x33	3- W10x33
24	X	X	2- W10x33*	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W12x45	3- W10x33	3- W10x33	4- W10x33	4- W10x33
26	X	X	2- W10x33*	2- W10x33	2- W10x33	2- W12x45	2- W12x45	3- W10x33	X	X	4- W10x33*	4- W10x33	4- W10x33
28	X	X	2- W10x33*	2- W10x33	2- W12x45	2- W12x45	3- W10x33	3- W10x33	X	X	4- W10x33*	4- W10x33	X
30	X	X	2- W10x33*	2- W10x33	2- W12x45	X	X	X	X	X	X	X	X

X Standard size not available  
 \* Post spacing shall be 7'-0"

**INDIANA DEPARTMENT OF TRANSPORTATION**  
**WIDE-FLANGE SIGN SUPPORT POST SELECTION TABLE**  
 CLEAR HEIGHT = 10 FT  
 SEPTEMBER 2017  
 STANDARD DRAWING NO. E 802-SNGP-09

Professional Engineer stamps for David H. Boruff (No. 60900348) and John Leckie (No. 04/10/17).

Last Saved By: pandora Printed: 8/30/2024 8:30 AM  
 File Path: C:\Users\jrc\OneDrive\Documents\1394-Centerville-Welcome Center\1394-Centerville-Welcome Center\1394-Centerville-Welcome Center.dwg Aug 20, 2024 - 11:52:41 am

Certified by: ENGINEER

**JSE**  
 JANSSEN & SPANNS ENGINEERING  
 jseengr.com  
 9100 Harrison Park Court - Indianapolis, IN 46261

**krM**  
 Architecture  
 1515 N. Pennsylvania St.  
 Indianapolis, Indiana

**RATIO**  
 LANDSCAPE ARCHITECTURE  
 30 W. Monroe Street, Suite 500  
 Chicago, IL 60603  
 T: 312.465.2359  
 www.ratiodesign.com

**Applied**  
 Engineering Services

PUBLIC WORKS PROJECT NO. 89006007-23-034-C1  
 CENTERVILLE WELCOME CENTER  
 CENTERVILLE, INDIANA

**IDOA**  
 INDIANA DEPARTMENT OF TRANSPORTATION

Revisions:

Project Number: 89006007-23-034-C1  
 Requisition Number:  
 Account Number:  
 Designer: ID Drawing Date: 8/30/2024  
 Drafter: JRC Drawing Scale: N/A  
 DAPW Approval:  
 Client Approval:  
 Reference Number: 1394  
 Building Reference:  
 Drawing Number: CS147  
 Sheet: 125 of 140

Sign Width (ft)

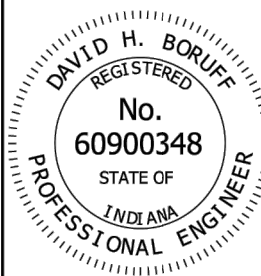
Sign Height (ft)	6	8	10	12	14	16	18	20	22	24	26	28	30
4	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x9	2- W6x12	2- W6x12	2- W6x12	2- W6x12	2- W6x12	2- W8x18
6	2- W6x9	2- W6x9	2- W6x9	2- W6x12	2- W6x12	2- W6x12	2- W6x12	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18
8	2- W6x9	2- W6x12	2- W6x12	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18
10	2- W6x12	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x24	2- W8x24	2- W10x33	2- W10x33
12	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x24	2- W8x24	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
14	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x24	2- W8x24	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
16	2- W8x18	2- W8x18	2- W8x24*	2- W8x24	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
18	2- W8x18		2- W8x24*	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W12x45	2- W12x45	3- W10x33
20			2- W8x33*	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W12x45	2- W12x45	3- W10x33	3- W10x33	3- W10x33
22			2- W10x33*	2- W10x33	2- W10x33	2- W10x33	2- W12x45	2- W12x45	3- W10x33	3- W10x33	3- W12x45	3- W12x45	3- W12x45
24			2- W10x33*	2- W10x33	2- W10x33	2- W12x45	3- W10x33	3- W10x33	3- W10x33	3- W10x33	4- W10x33*	4- W10x33	4- W10x33
26			2- W10x33*	2- W10x33	2- W10x33	2- W12x45	3- W10x33*	3- W10x33			4- W10x33*	4- W10x33	4- W12x45
28			2- W10x33*	2- W10x33	2- W12x45								
30			2- W10x33*	2- W12x45									

✕ Standard size not available  
 \* Post spacing shall be 7'-0"

INDIANA DEPARTMENT OF TRANSPORTATION

WIDE-FLANGE SIGN SUPPORT  
POST SELECTION TABLE  
CLEAR HEIGHT = 12 FT  
SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGP-10

	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black;"> <i>/s/ David H. Boruff</i> DESIGN STANDARDS ENGINEER         </td> <td style="width: 50%; border-bottom: 1px solid black;">           03/17/17 DATE         </td> </tr> <tr> <td style="border-bottom: 1px solid black;"> <i>/s/ John Leckie</i> CHIEF ENGINEER         </td> <td style="border-bottom: 1px solid black;">           04/10/17 DATE         </td> </tr> </table>	<i>/s/ David H. Boruff</i> DESIGN STANDARDS ENGINEER	03/17/17 DATE	<i>/s/ John Leckie</i> CHIEF ENGINEER	04/10/17 DATE
<i>/s/ David H. Boruff</i> DESIGN STANDARDS ENGINEER	03/17/17 DATE				
<i>/s/ John Leckie</i> CHIEF ENGINEER	04/10/17 DATE				

**NOTES:**

- Clear height is the distance from the top of foundation to bottom of sign.
- Table entries are number of posts- post size.
- Sign dimensions and clear height should be rounded up to the nearest even number.

Sign Width (ft)

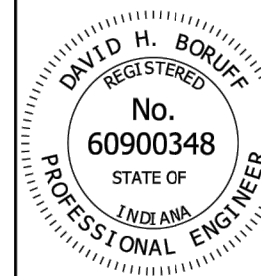
Sign Height (ft)	6	8	10	12	14	16	18	20	22	24	26	28	30
4	2- W6x9	2- W6x9	2- W6x9	2- W6x12	2- W6x12	2- W6x12	2- W6x12	2- W6x12	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18
6	2- W6x9	2- W6x12	2- W6x12	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18
8	2- W6x12	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x24	2- W8x24	2- W8x24	2- W8x24
10	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x24	2- W8x24	2- W10x33	2- W10x33
12	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x24	2- W8x24	2- W8x24	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
14	2- W8x18	2- W8x18	2- W8x24*	2- W8x24	2- W8x24	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
16	2- W8x18		2- W8x24*	2- W8x24*	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
18			2- W8x24*	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
20			2- W10x33*	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
22			2- W10x33*	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
24			2- W10x33*	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
26			2- W10x33*	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
28			2- W10x33*	2- W10x33									
30			2- W10x33*										

✕ Standard size not available  
 \* Post spacing shall be 7'-0"

INDIANA DEPARTMENT OF TRANSPORTATION

WIDE-FLANGE SIGN SUPPORT  
POST SELECTION TABLE  
CLEAR HEIGHT = 14 FT  
SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGP-11

	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black;"> <i>/s/ David H. Boruff</i> DESIGN STANDARDS ENGINEER         </td> <td style="width: 50%; border-bottom: 1px solid black;">           03/17/17 DATE         </td> </tr> <tr> <td style="border-bottom: 1px solid black;"> <i>/s/ John Leckie</i> CHIEF ENGINEER         </td> <td style="border-bottom: 1px solid black;">           04/10/17 DATE         </td> </tr> </table>	<i>/s/ David H. Boruff</i> DESIGN STANDARDS ENGINEER	03/17/17 DATE	<i>/s/ John Leckie</i> CHIEF ENGINEER	04/10/17 DATE
<i>/s/ David H. Boruff</i> DESIGN STANDARDS ENGINEER	03/17/17 DATE				
<i>/s/ John Leckie</i> CHIEF ENGINEER	04/10/17 DATE				

**NOTES:**

- Clear height is the distance from the top of foundation to bottom of sign.
- Table entries are number of posts- post size.
- Sign dimensions and clear height should be rounded up to the nearest even number.

Sign Width (ft)

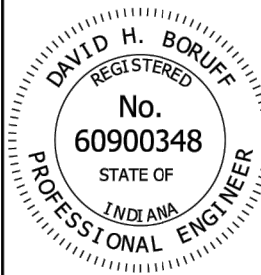
Sign Height (ft)	6	8	10	12	14	16	18	20	22	24	26	28	30
4	2- W6x12	2- W6x12	2- W6x12	2- W6x12	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18
6	2- W6x12	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x24	2- W8x24	2- W8x24
8	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x24	2- W8x24	2- W8x24	2- W8x24	2- W8x24	2- W8x24	2- W10x33	2- W10x33
10	2- W8x18	2- W8x18	2- W8x18	2- W8x24	2- W8x24	2- W8x24	2- W8x24	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
12	2- W8x18		2- W8x24*	2- W8x24	2- W8x24	2- W8x24	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
14			2- W8x24*	2- W8x24	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
16			2- W8x24*	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
18			2- W10x33*	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
20			2- W10x33*	2- W10x33	2- W10x33	2- W10x33	2- W10x33*	2- W10x33	2- W10x33		4- W10x33	4- W10x33	4- W10x33
22			2- W10x33*	2- W10x33	2- W10x33								
24			2- W10x33*										

✕ Standard size not available  
 \* Post spacing shall be 7'-0"

INDIANA DEPARTMENT OF TRANSPORTATION

WIDE-FLANGE SIGN SUPPORT  
POST SELECTION TABLE  
CLEAR HEIGHT = 16 FT  
SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGP-12

	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black;"> <i>/s/ David H. Boruff</i> DESIGN STANDARDS ENGINEER         </td> <td style="width: 50%; border-bottom: 1px solid black;">           03/17/17 DATE         </td> </tr> <tr> <td style="border-bottom: 1px solid black;"> <i>/s/ John Leckie</i> CHIEF ENGINEER         </td> <td style="border-bottom: 1px solid black;">           04/10/17 DATE         </td> </tr> </table>	<i>/s/ David H. Boruff</i> DESIGN STANDARDS ENGINEER	03/17/17 DATE	<i>/s/ John Leckie</i> CHIEF ENGINEER	04/10/17 DATE
<i>/s/ David H. Boruff</i> DESIGN STANDARDS ENGINEER	03/17/17 DATE				
<i>/s/ John Leckie</i> CHIEF ENGINEER	04/10/17 DATE				

**NOTES:**

- Clear height is the distance from the top of foundation to bottom of sign.
- Table entries are number of posts- post size.
- Sign dimensions and clear height should be rounded up to the nearest even number.

Sign Width (ft)

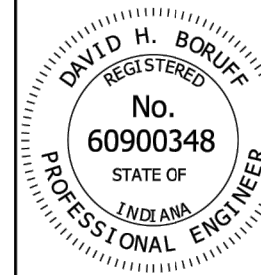
Sign Height (ft)	6	8	10	12	14	16	18	20	22	24	26	28	30
4	2- W6x12	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x24
6	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x18	2- W8x24	2- W8x24	2- W8x24	2- W8x24	2- W8x24	2- W8x24	2- W8x24
8	2- W8x18	2- W8x18	2- W8x18	2- W8x24	2- W8x24	2- W8x24	2- W8x24	2- W8x24	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
10	2- W8x18		2- W8x24*	2- W8x24	2- W8x24	2- W8x24	2- W8x24	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
12			2- W8x24*	2- W8x24	2- W8x24	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
14			2- W8x24*	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
16			2- W10x33*	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
18			2- W10x33*	2- W10x33	2- W10x33	2- W10x33	2- W10x33*	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33	2- W10x33
20			2- W10x33*	2- W10x33	2- W10x33								
22			2- W10x33*										

✕ Standard size not available  
 \* Post spacing shall be 7'-0"

INDIANA DEPARTMENT OF TRANSPORTATION

WIDE-FLANGE SIGN SUPPORT  
POST SELECTION TABLE  
CLEAR HEIGHT = 18 FT  
SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGP-13

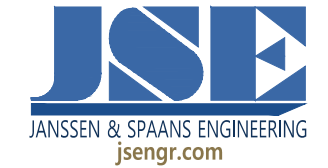
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black;"> <i>/s/ David H. Boruff</i> DESIGN STANDARDS ENGINEER         </td> <td style="width: 50%; border-bottom: 1px solid black;">           03/17/17 DATE         </td> </tr> <tr> <td style="border-bottom: 1px solid black;"> <i>/s/ John Leckie</i> CHIEF ENGINEER         </td> <td style="border-bottom: 1px solid black;">           04/10/17 DATE         </td> </tr> </table>	<i>/s/ David H. Boruff</i> DESIGN STANDARDS ENGINEER	03/17/17 DATE	<i>/s/ John Leckie</i> CHIEF ENGINEER	04/10/17 DATE
<i>/s/ David H. Boruff</i> DESIGN STANDARDS ENGINEER	03/17/17 DATE				
<i>/s/ John Leckie</i> CHIEF ENGINEER	04/10/17 DATE				

**NOTES:**


- Clear height is the distance from the top of foundation to bottom of sign.
- Table entries are number of posts- post size.
- Sign dimensions and clear height should be rounded up to the nearest even number.

Last Saved By: pender Printed: 3/20/24  
 P:\1394 - Centerville Welcome Center\DWG\SET\1394-Centerville-CSI100-SINGP-005-800.dwg Aug 20, 2024 - 11:53:31 am


Certified by: ENGINEER




JANSEN & SPANNS ENGINEERING  
jseengr.com  
9100 Horton Park Court - Indianapolis, IN 46261



krM  
Architects  
1515 N. Pennsylvania St.  
Indianapolis, Indiana





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LANDSCAPE ARCHITECTURE  
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Chicago, IL 60603  
T: 312.465.2359  
www.ratiodesign.com



Applied  
Engineering Services

PUBLIC WORKS PROJECT NO. 89006007-23-034-C1  
 CENTERVILLE WELCOME CENTER  
 CENTERVILLE, INDIANA





Revisions:

Project Number:	89006007-23-034-C1
Requestion Number:	
Account Number:	
Designer:	ID 8/30/2024
Drafter:	JRC N/A
DAPW Approval:	
Client Approval:	
Reference Number:	1394
Building Reference:	
Drawing Number:	CS148
Sheet:	126 of 140

		Sign Width (ft)												
		6	8	10	12	14	16	18	20	22	24	26	28	30
Sign Height (ft)	4	2-W8x18	2-W8x18	2-W8x18	2-W8x18	2-W8x18	2-W8x18	2-W8x18	2-W8x24	2-W8x24	2-W8x24	2-W8x24	2-W8x24	2-W8x24
	6	2-W8x18	2-W8x18	2-W8x18	2-W8x24	2-W8x24	2-W8x24	2-W8x24	2-W8x24	2-W8x24	2-W8x24	2-W8x24	2-W8x24	3-W8x24
	8	2-W8x18		2-W8x24*	2-W8x24	2-W8x24	2-W8x24	2-W8x24	2-W8x24	3-W8x24	3-W8x24	3-W8x24	3-W8x24	4-W8x24
	10			2-W8x24*	2-W8x24	2-W8x24	3-W8x24*	3-W8x24						
	12			2-W8x24*	2-W8x24									

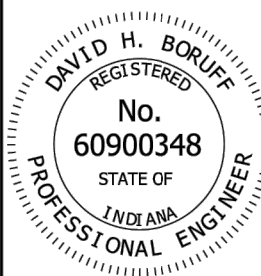
⊗ Standard size not available  
\* Post spacing shall be 7'-0"

- NOTES:**
- Clear height is the distance from the top of foundation to bottom of sign.
  - Table entries are number of posts- post size.
  - Sign dimensions and clear height should be rounded up to the nearest even number.

INDIANA DEPARTMENT OF TRANSPORTATION

WIDE-FLANGE SIGN SUPPORT  
POST SELECTION TABLE  
CLEAR HEIGHT = 20 FT  
SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGP-14



/s/ David H. Boruff 03/17/17  
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17  
CHIEF ENGINEER DATE

		Sign Width (ft)												
		6	8	10	12	14	16	18	20	22	24	26	28	30
Sign Height (ft)	4	2-W8x18	2-W8x18	2-W8x18	2-W8x24	2-W8x24	2-W8x24	2-W8x24	2-W8x24	2-W8x24	2-W8x24	2-W8x24	2-W8x24	2-W8x24
	6			2-W8x24*	2-W8x24	2-W8x24	2-W8x24	2-W8x24	2-W8x24	2-W8x24	3-W8x24	3-W8x24	3-W8x24	3-W8x24
	8			2-W8x24*	2-W8x24	2-W8x24	2-W8x24	3-W8x24*	3-W8x24					
	10			2-W8x24*										

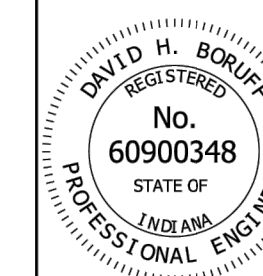
⊗ Standard size not available  
\* Post spacing shall be 7'-0"

- NOTES:**
- Clear height is the distance from the top of foundation to bottom of sign.
  - Table entries are number of posts- post size.
  - Sign dimensions and clear height should be rounded up to the nearest even number.

INDIANA DEPARTMENT OF TRANSPORTATION

WIDE-FLANGE SIGN SUPPORT  
POST SELECTION TABLE  
CLEAR HEIGHT = 22 FT  
SEPTEMBER 2017

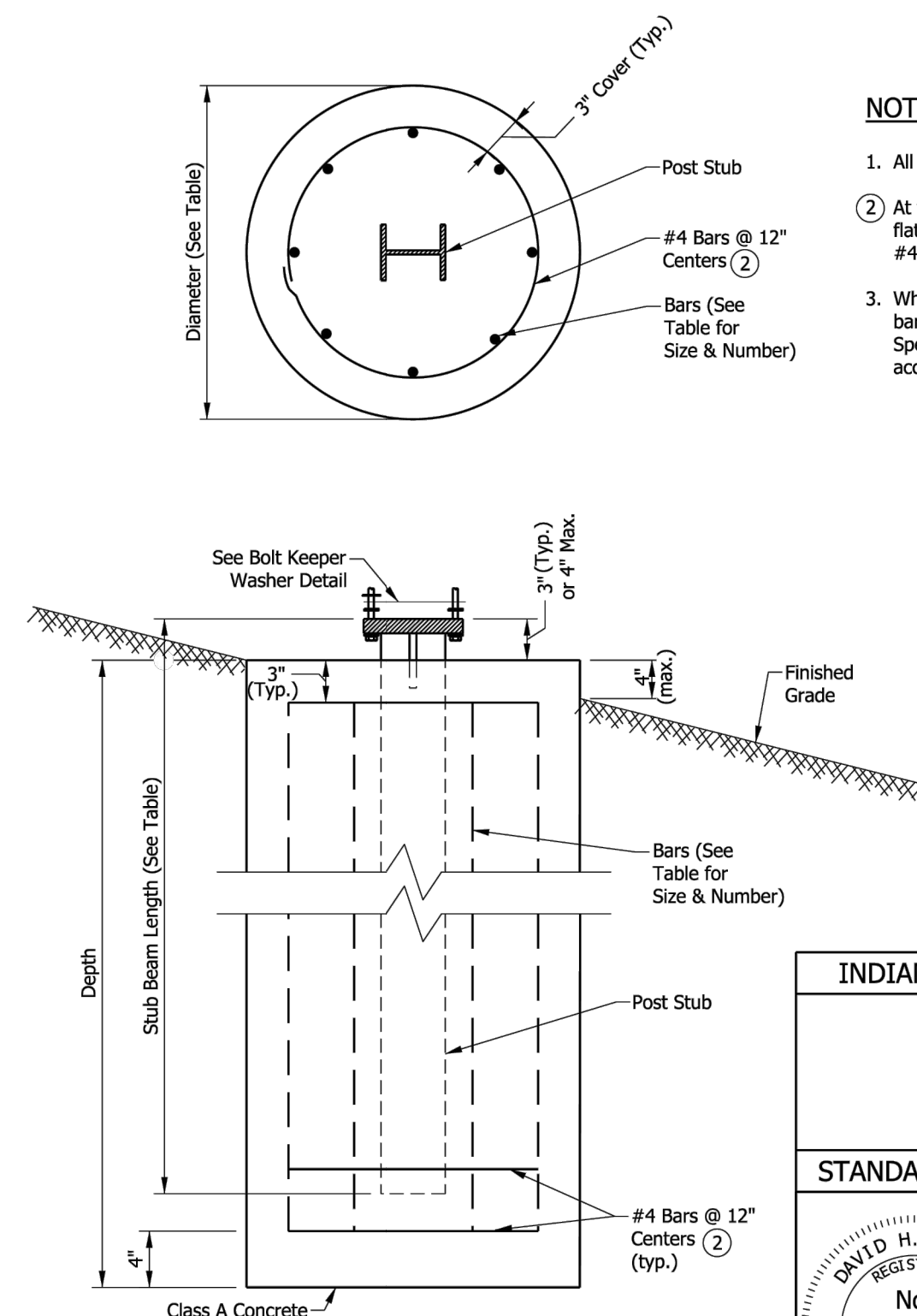
STANDARD DRAWING NO. E 802-SNGP-15



/s/ David H. Boruff 03/17/17  
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17  
CHIEF ENGINEER DATE

FOUNDATION DATA					
Type	Post Size	Diameter	Depth	Stub Length	Reinforcement Bars
A	W6x9	2'	7'	4'	8 - #8
A	W6x12	2'	7'	4'	8 - #8
B	W8x18	2'	10'	4'	8 - #8
B	W8x24	2'	10'	4'	8 - #8
C	W10x33	2'-6"	12'	5'	10 - #8
C	W12x45	2'-6"	12'	5'	10 - #8

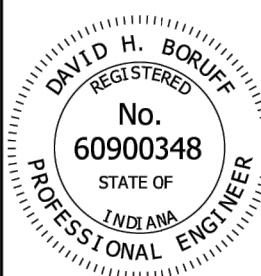


- NOTES:**
- All reinforcing shall be grade 60.
  - At the option of the contractor, D10 spiral wire @ 6" pitch, three flat turns top and one flat turn bottom may be utilized in lieu of #4 bars.
  - Where shop-welded assemblies of foundation stirrup reinforcing bars are used, reinforcing bars shall be in accordance with ASTM Specification A706/706M and holding wires shall be in accordance with ASTM Specification A1064.

INDIANA DEPARTMENT OF TRANSPORTATION

WIDE-FLANGE SIGN SUPPORT  
FOUNDATION  
SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGP-16



/s/ David H. Boruff 03/17/17  
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17  
CHIEF ENGINEER DATE

INDEX	
SHEET NO.	SUBJECT
1	Signs Drawing Index and General Notes
2	Route Marker Details, Shields and Auxiliary Signs
3	Route Marker Details, Arrow and Cardinal Direction Signs
4	Sign ReflectORIZATION Schedule
5	Sign ReflectORIZATION Schedule
6	Miscellaneous Sign Details
7	Steel Sign Posts, Selection Table
8	Steel Sign Posts, Bracing for Signs Greater Than 90°
9	Steel Sign Posts, Anchor Base Details
10	Sign Identification Marking

- GENERAL NOTES:**
- Numerals sometimes cannot be accommodated within the space available. For this situation, the standard series D numeral may be reduced to series C. As a second choice, use the next smaller height commonly available.
  - For independent use of sheet signs, a nylon and metal washer shall be placed between each bolt head and the face of the metal sign. See Sign Bolt Detail on Standard Drawing E 802-SNGS-06.
  - Fabrication details for the signs shown shall be found in the Standard Highway Signs and Markings Book. Shop drawings will be supplied on all other signs not found in the publication.
  - See Standard Drawing E 802-SNPL-02 for mounting height and lateral locations of signs.
  - Splicing of flanged channel post will not be permitted.
  - Wherever white is specified as a color, it is understood to include silver-colored reflecting coatings or elements that reflect white light.

INDIANA DEPARTMENT OF TRANSPORTATION

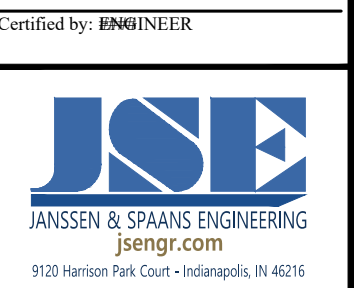
SIGNS  
DRAWING INDEX AND GENERAL NOTES  
SEPTEMBER 2017

STANDARD DRAWING NO. E 802-SNGS-01



/s/ David H. Boruff 03/16/17  
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17  
CHIEF ENGINEER DATE



PUBLIC WORKS PROJECT NO. 89006007-23-034-C1  
CENTERVILLE WELCOME CENTER  
CENTERVILLE, INDIANA



Revisions:

Project Number: 89006007-23-034-C1  
Requisition Number:

Account Number:

Designer: IID Drawing Date: 8/30/2024  
Drafter: JRC Drawing Scale: N/A

DAPW Approval:

Client Approval:

Reference Number: 1394  
Building Reference:

Drawing Number: CS149  
Sheet: 127 of 140



WHITE BACKGROUND WITH BLACK BORDER AND NUMERALS  
M1-4(I)



WHITE BACKGROUND WITH BLACK NUMERALS  
M1-4(G)



WHITE BACKGROUND WITH BLACK LETTERS, NUMERALS AND BORDER  
M1-5



WHITE LETTERS, NUMERALS, AND BORDER  
M1-1

FOR INDEPENDENT USE ONLY

FOR GUIDE SIGN USE

STATE ROUTE MARKER

INTERSTATE SHIELD

M1-4(I), M1-4(G), M1-5, M1-1	
12" NUMERALS	24" NUMERALS
2 DIGITS 24" x 24"	3 DIGITS 30" x 24"
3 DIGITS 36" x 36"	4 DIGITS 45" x 36"
4 DIGITS 48" x 48"	5 DIGITS 60" x 48"



M2-1(S)  
M2-1(I)



M4-5(I)  
M4-5(S)



M4-6(S)  
M4-6(I)



M4-4(S)

(I) INDICATES WHITE LEGEND ON BLUE BACKGROUND (INTERSTATE)  
(S) INDICATES BLACK LEGEND ON WHITE BACKGROUND (STATE)

STATE	M2-1(S) M2-1(I)	M4-4(S)	M4-5(S) M4-5(I)	M4-6(S) M4-6(I)
INTERSTATE	24" x 24" 30" x 24"	24" x 24" 30" x 24"	24" x 24" 30" x 24"	24" x 24" 30" x 24"
SHIELD SIZES	36" x 36" 45" x 36"	36" x 36" 45" x 36"	36" x 36" 45" x 36"	36" x 36" 45" x 36"
CORRESPONDING SIGN SIZE	21" x 15"	24" x 12"	30" x 15"	24" x 12"

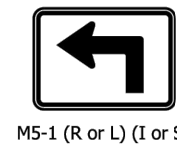
NOTES:

- All series M(S) "JCT", "TO", "TRUCK", and "END" shall be white background with black legend and border.
- All series M(I) "JCT", "TO", "TRUCK", and "END" shall be blue background with white legend and border.
- Center align numbers about vertical centerline of shield.

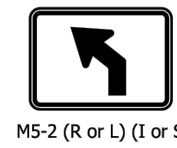
INDIANA DEPARTMENT OF TRANSPORTATION  
ROUTE MARKER DETAILS  
SHIELDS AND AUXILIARY SIGNS  
SEPTEMBER 2017  
STANDARD DRAWING NO. E 802-SNGS-02

DAVID H. BOROFF  
REGISTERED PROFESSIONAL ENGINEER  
No. 60900348  
STATE OF INDIANA  
DESIGN STANDARDS ENGINEER  
DATE 03/16/17

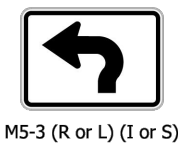
JOHN LECKIE  
REGISTERED PROFESSIONAL ENGINEER  
No. 60900348  
STATE OF INDIANA  
CHIEF ENGINEER  
DATE 04/10/17



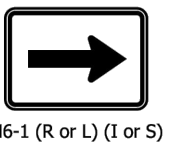
M5-1 (R or L) (I or S)



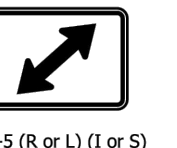
M5-2 (R or L) (I or S)



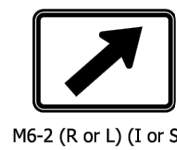
M5-3 (R or L) (I or S)



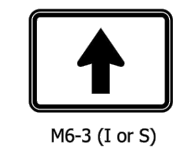
M6-1 (R or L) (I or S)



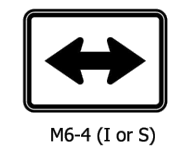
M6-5 (R or L) (I or S)



M6-2 (R or L) (I or S)



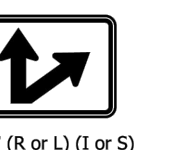
M6-3 (I or S)



M6-4 (I or S)



M6-6 (R or L) (I or S)



M6-7 (R or L) (I or S)

STATE	M5-1(S) M5-2(S) M5-3(S)	M6-1(S) M6-2(S) M6-3(S) M6-4(S) M6-5(S) M6-6(S) M6-7(S)
INTERSTATE	24" x 24" 30" x 24"	36" x 36" 45" x 36"
SHIELD SIZES	21" x 15"	21" x 15"
CORRESPONDING SIGN SIZE		



M3-1 (S or I)



M3-2 (S or I)



M3-3 (S or I)



M3-4 (S or I)

STATE	M3-1(S) M3-2(S) M3-3(S) M3-4(S)
INTERSTATE	24" x 24" 30" x 24" 36" x 36" 45" x 36"
SHIELD SIZES	24" x 12" 24" x 12" 36" x 18" 36" x 18"
CORRESPONDING SIGN SIZE	

NOTES:

- All series M(S) cardinal directions and arrows shall be white background with black legend and border.
- All series M(I) cardinal directions and arrows shall be blue background with white legend and border.

INDIANA DEPARTMENT OF TRANSPORTATION  
ROUTE MARKER DETAILS  
ARROW AND CARDINAL DIRECTION SIGNS  
SEPTEMBER 2017  
STANDARD DRAWING NO. E 802-SNGS-03

DAVID H. BOROFF  
REGISTERED PROFESSIONAL ENGINEER  
No. 60900348  
STATE OF INDIANA  
DESIGN STANDARDS ENGINEER  
DATE 03/16/17

JOHN LECKIE  
REGISTERED PROFESSIONAL ENGINEER  
No. 60900348  
STATE OF INDIANA  
CHIEF ENGINEER  
DATE 04/10/17

SIGN	REMARKS	BACKGROUND	COPY & BORDER
IGD, GD	Directional	S-3-H	B
IGDO, GD	Directional	S-3-H	B
IGI	Information	S-3-H	B
IGS	Services	S-4-H	B
IGSS	Services	S-4-H	S-2-H
IGDO, GDO Special - Panel	Warning Panel	S-10-H	A
R1-1	Stop	S-5-H	S-2-H
R1-2	Yield	S-2-H	S-5-H
R1-3, R1-4	W-Way, All-Way	S-5-H	S-2-H
R2-3	Night Speed	O-1-H	S-2-H
R3-1, R3-2, R3-4	No Right, Left, or U Turns	S-2-H	S-5-H, O-1-H
RS-1	Do Not Enter	S-5-H	S-2-H
RS-1a	Wrong Way	S-5-H	S-2-H
RS-2, RS-6	No Trucks, Bicycles	S-2-H	S-5-H, O-1-H
R7-1, R7-4, R7-107, R7-201	No Parking (Urban)	S-2-H	S-5-H
R7-2a, R7-107a	No Parking (Urban)	S-2-H	S-5-H, O-1-H
R7-5, R7-5a, R7-108	Restricted Parking	S-2-H	S-7-H
R7-8	Reserved Parking	S-2-H	S-7-H, S-6-H
R8-1, R8-1a, R8-2, R8-3, R8-3b, R8-3c, R8-8	No Parking (Rural)	S-2-H	S-5-H
R8-3a	No Parking (Rural)	S-2-H	S-5-H, O-1-H
R9-3a, R9-4a	Pedestrian Signs	S-2-H	S-5-H, O-1-H
All other regulatory signs		S-2-H	O-1-H
W3-1a, W3-2a	Stop & Yield Ahead	S-10-H	S-2-H, S-5-H, O-1-H
W3-3	Signal Ahead	S-10-H	S-5-H, O-1-H
All School Warning Signs		S-11-H	O-1-H
All other warning signs	Social Construction Signs, School Warning Signs	S-10-H	O-1-H
M1-1	Interstate Shields	S-6-H	S-2-H
M1-2, M1-3	Business Shields	S-7-H	S-2-H
M1-4	U.S. Shields	S-2-H	O-1-H
M1-5	County Shields	S-4-H	S-1-H
M1-6	State Shields	S-2-H	O-1-H
M1-7	National Forest	A	S-2-H

BACKGROUND, COPY & BORDER KEY

CODE	DESCRIPTION
O-1-H	Paint (Black) For Use With Prismatic Reflective Sheeting
S-1-H	Prismatic Reflective Sheeting (Yellow)
S-2-H	Prismatic Reflective Sheeting (Silver)
S-3-H	Prismatic Reflective Sheeting (Green)
S-4-H	Prismatic Reflective Sheeting (Blue)
S-5-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Red)
S-6-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Blue)
S-7-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Green)
S-8-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Red and Blue)
S-9-H	Prismatic Reflective Sheeting (Fluorescent Orange)
S-10-H	Prismatic Reflective Sheeting (Fluorescent Yellow)
S-11-H	Prismatic Reflective Sheeting (Fluorescent Yellow-Green)
A	Cut - Out Letters Which Are Painted Black
B	Cut - Out Letters and Border - White Prismatic Reflective Sheeting
A	Brown Background with Prismatic Reflective Sheeting

SIGN IDENTIFICATION CODES

- IGDO Interstate Guide Directional Overhead
- IGD Interstate Guide Directional
- IGS Interstate Guide Service and Rest Area
- IGI Interstate Guide Information
- GDO Guide Directional Overhead
- GD Guide Directional
- R Regulatory Sign
- W Warning, Construction and Maint. Signs
- M Route Markers and Aux. Markers for Assemblies
- D Destination Sign
- I Information

INDIANA DEPARTMENT OF TRANSPORTATION  
SIGN REFLECTORIZATION SCHEDULE  
SEPTEMBER 2017  
STANDARD DRAWING NO. E 802-SNGS-04

DAVID H. BOROFF  
REGISTERED PROFESSIONAL ENGINEER  
No. 60900348  
STATE OF INDIANA  
DESIGN STANDARDS ENGINEER  
DATE 03/16/17

JOHN LECKIE  
REGISTERED PROFESSIONAL ENGINEER  
No. 60900348  
STATE OF INDIANA  
CHIEF ENGINEER  
DATE 04/10/17

SIGN	REMARKS	BACKGROUND	COPY & BORDER
M2-1 (I), M3-1 (I), M3-2 (I), M3-3 (I), M3-4 (I)	Auxiliary Markers	S-6-H	S-2-H
M4-5 (I), M4-7 (I), M5-1 (I), M5-2 (I)	Auxiliary Markers	S-6-H	S-2-H
M6-1 Through M6-7	Auxiliary Markers	S-6-H	S-2-H
M4-5, M4-6, M4-6a	Auxiliary Markers	S-7-H	S-2-H
M4-8, M4-9	Detour Marker	S-9-H	O-1-H
All Other Marker Auxiliaries		S-2-H	O-1-H
D4-1	Parking	S-2-H	S-7-H
D5-5, D5-5a, D9-2, D9-6	Rest Area & Service	S-6-H	S-2-H
D7-2	Recreation Area	A	S-2-H
All Other Destination Signs		S-3-H	S-2-H
I-17, I-18, I-19		S-6-H	S-2-H
I-20, I-21		S-2-H	O-1-H
All Other I-Signs		S-7-H	S-2-H
All Construction Signs		S-9-H	O-1-H
All Maintenance Signs		S-9-H	O-1-H

BACKGROUND, COPY AND BORDER KEY

CODE	DESCRIPTION
O-1-H	Paint (Black) For Use With Prismatic Reflective Sheeting
S-1-H	Prismatic Reflective Sheeting (Yellow)
S-2-H	Prismatic Reflective Sheeting (Silver)
S-3-H	Prismatic Reflective Sheeting (Green)
S-4-H	Prismatic Reflective Sheeting (Blue)
S-5-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Red)
S-6-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Blue)
S-7-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Green)
S-8-H	Prismatic Reflective Sheeting (Silver with reverse screen transparent Red and Blue)
S-9-H	Prismatic Reflective Sheeting (Fluorescent Orange)
A	Cut - Out Letters Which Are Painted Black
B	Cut - Out Letters And Border - White Prismatic Reflective Sheeting
A	Brown Background With Prismatic Reflective Sheeting

SIGN IDENTIFICATION CODES

- IGDO Interstate Guide Directional Overhead
- IGD Interstate Guide Directional
- IGS Interstate Guide Service and Rest Area
- IGI Interstate Guide Information
- GDO Guide Directional Overhead
- GD Guide Directional
- R Regulatory Sign
- W Warning, Construction and Maint. Signs
- M Route Markers and Aux. Markers for Assemblies
- D Destination Sign
- I Information

INDIANA DEPARTMENT OF TRANSPORTATION  
SIGN REFLECTORIZATION SCHEDULE  
SEPTEMBER 2017  
STANDARD DRAWING NO. E 802-SNGS-05

DAVID H. BOROFF  
REGISTERED PROFESSIONAL ENGINEER  
No. 60900348  
STATE OF INDIANA  
DESIGN STANDARDS ENGINEER  
DATE 03/16/17

JOHN LECKIE  
REGISTERED PROFESSIONAL ENGINEER  
No. 60900348  
STATE OF INDIANA  
CHIEF ENGINEER  
DATE 04/10/17

Certified by: ENGINEER



PUBLIC WORKS PROJECT NO. 89006007-23-034-C1  
CENTERVILLE WELCOME CENTER  
CENTERVILLE, INDIANA



Revisions:

Project Number: 89006007-23-034-C1

Requisition Number:

Account Number:

Designer: IID Drawing Date: 8/30/2024

Drafter: JRC Drawing Scale: N/A

DAPW Approval:

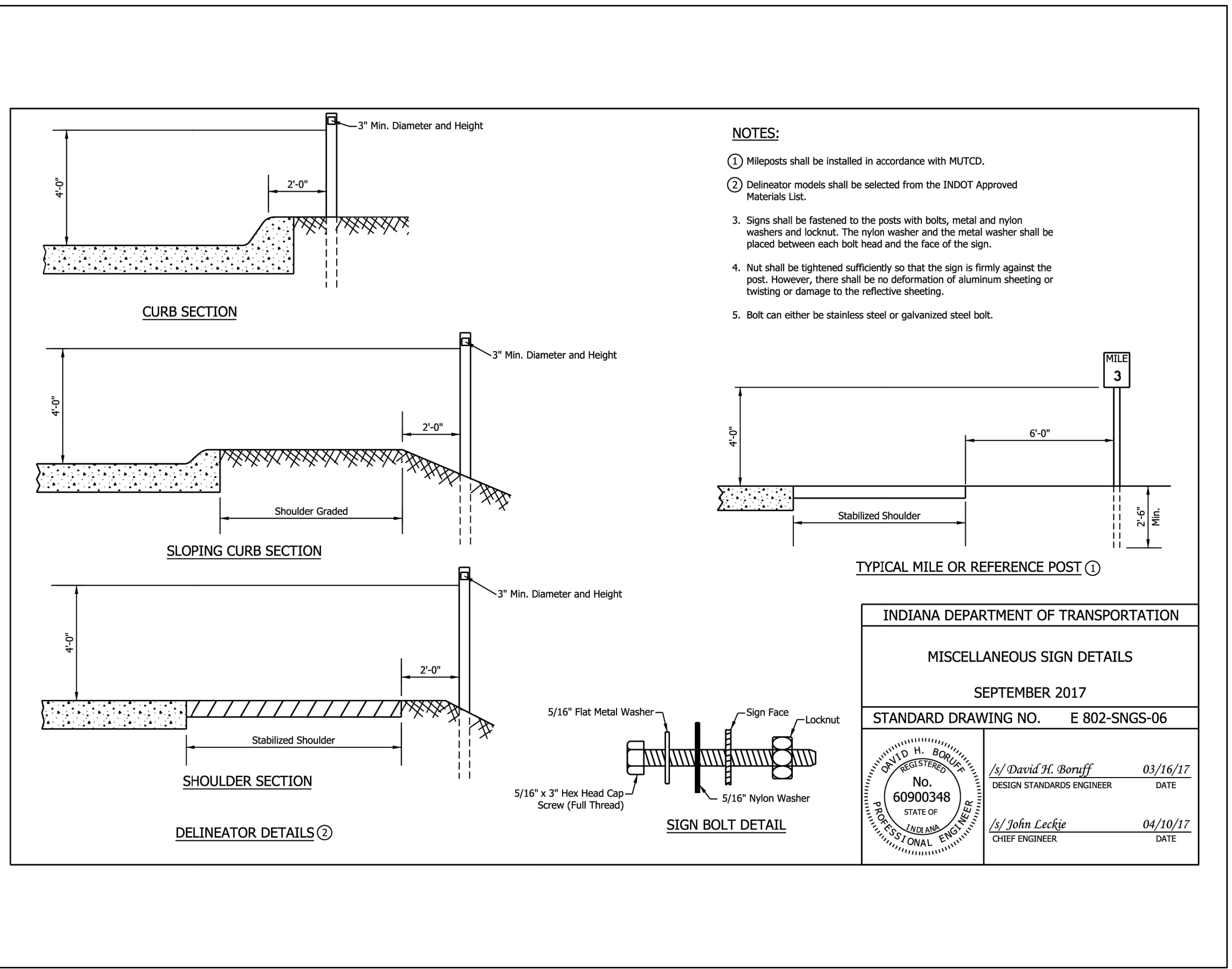
Client Approval:

Reference Number: 1394

Building Reference:

Drawing Number: CS150

Sheet: 128 of 140



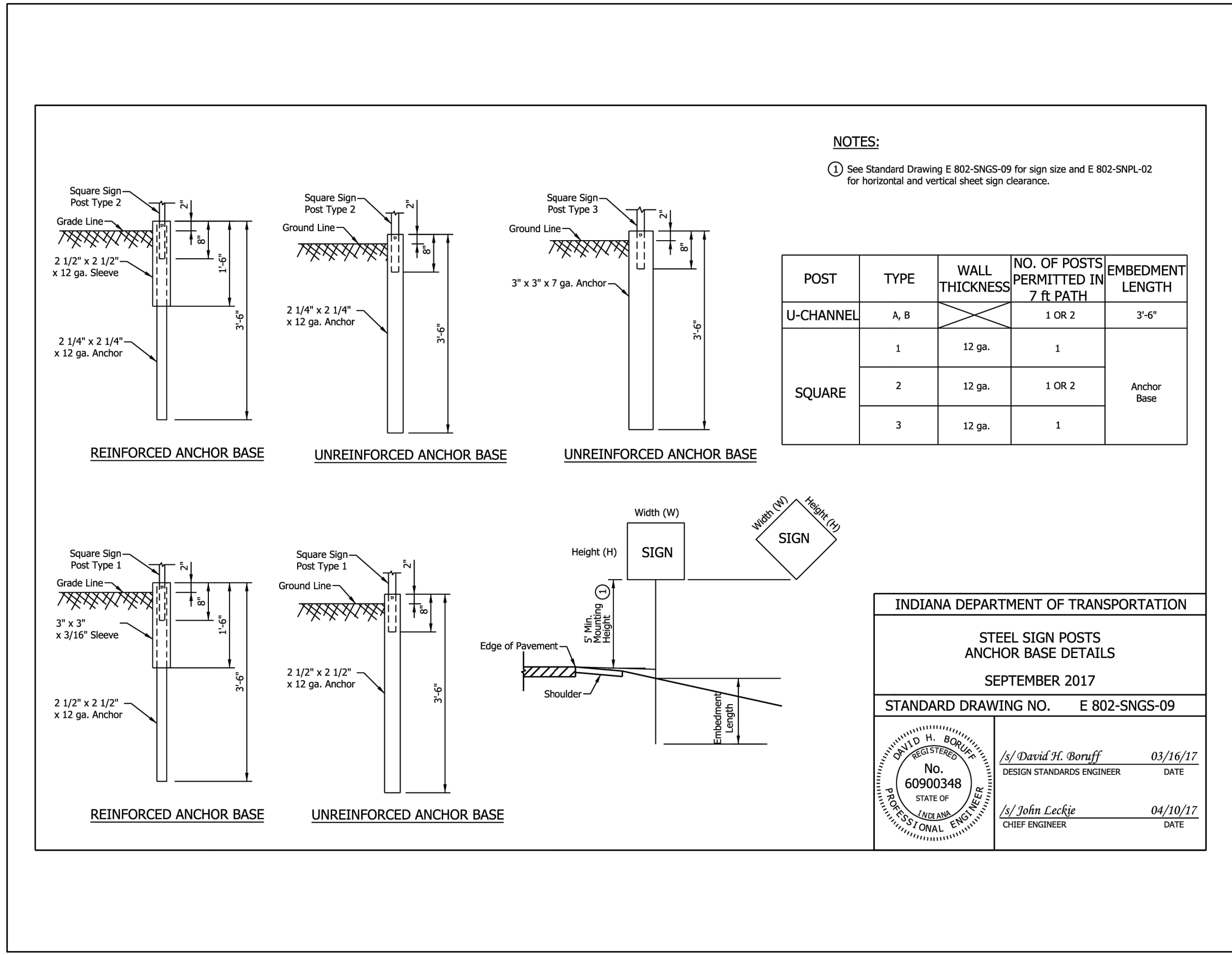
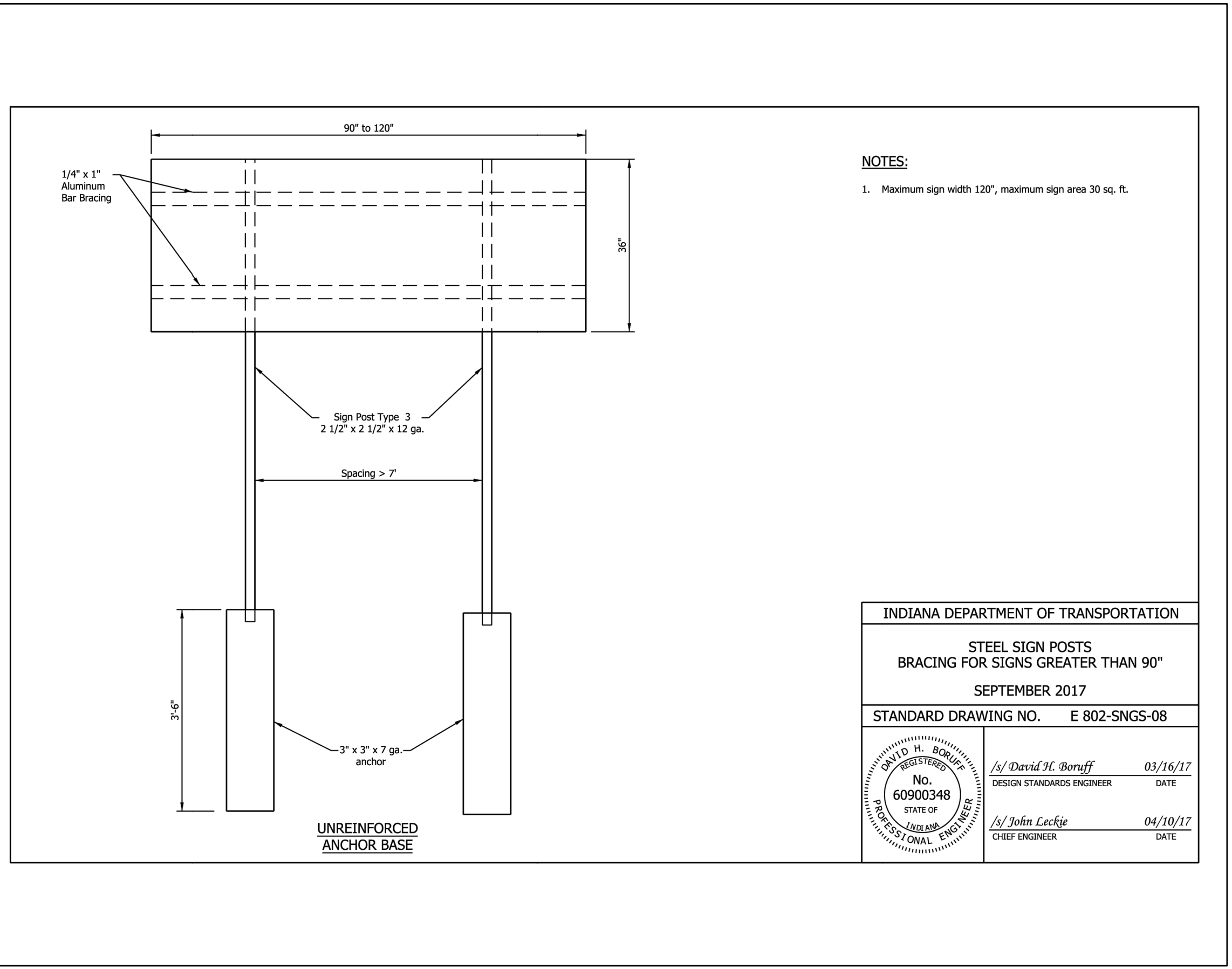
WIDTH X HEIGHT ("W X H")	MOUNTING HEIGHT							
	5 FT		6 FT		7 FT		8 FT	
	U CHANNEL	SQUARE POST	U CHANNEL	SQUARE POST	U CHANNEL	SQUARE POST	U CHANNEL	SQUARE POST
12 x 12, 12 x 6, 12 x 9	1-A	1-A	1-A	1-A	1-A	1-A	1-A	1-A
12 x 12, 12 x 18, 12 x 30	1-A	1-A	1-A	1-A	1-A	1-A	1-A	1-A
12 x 36	1-A	1-A	1-A	1-A	1-A	1-A	1-A	1-A
18 x 6, 18 x 12, 18 x 18	1-A	1-A	1-A	1-A	1-A	1-A	1-A	1-A
18 x 24	1-A	1-A	1-A	1-A	1-A	1-A	1-A	1-A
18 x 30	1-A	1-A	1-A	1-A	1-A	1-A	1-A	1-A
18 x 48	1-A	1-A	1-A	1-A	1-A	1-A	1-A	1-A
24 x 12, 24 x 18, 24 x 24	1-A	1-A	1-A	1-A	1-A	1-A	1-A	1-A
24 x 30	1-A	1-A	1-A	1-A	1-A	1-A	1-A	1-A
24 x 36	1-A	1-A	1-A	1-A	1-A	1-A	1-A	1-A
30 x 18	1-A	1-A	1-A	1-A	1-A	1-A	1-A	1-A
30 x 24	1-A	1-A	1-A	1-A	1-A	1-A	1-A	1-A
30 x 30	1-A	1-A	1-A	1-A	1-A	1-A	1-A	1-A
30 x 36	1-A	1-A	1-A	1-A	1-A	1-A	1-A	1-A
30 x 42	1-B	1-B	1-B	1-B	1-B	1-B	1-B	1-B
30 x 48	1-B	1-B	1-B	1-B	1-B	1-B	1-B	1-B
36 x 12	2-A	2-A	2-A	2-A	2-A	2-A	2-A	2-A
36 x 18	2-A	2-A	2-A	2-A	2-A	2-A	2-A	2-A
36 x 24	2-A	2-A	2-A	2-A	2-A	2-A	2-A	2-A
36 x 36	2-A	2-A	2-A	2-A	2-A	2-A	2-A	2-A
36 x 48	2-A	2-A	2-A	2-A	2-A	2-A	2-A	2-A
42 x 18	2-A	2-A	2-A	2-A	2-A	2-A	2-A	2-B
42 x 24	2-A	2-A	2-A	2-A	2-A	2-A	2-A	2-A
42 x 30	2-A	2-A	2-A	2-A	2-A	2-A	2-A	2-A
42 x 36	2-A	2-A	2-A	2-A	2-A	2-A	2-A	2-A
48 x 16	2-A	2-A	2-A	2-A	2-A	2-A	2-A	2-A
48 x 18	2-A	2-A	2-A	2-A	2-A	2-A	2-A	2-A
48 x 24	2-A	2-A	2-A	2-A	2-A	2-A	2-A	2-A
48 x 30	2-A	2-A	2-A	2-A	2-A	2-A	2-A	2-A
48 x 36	2-A	2-A	2-A	2-A	2-A	2-A	2-A	2-A
48 x 48	2-A	2-B	2-B	2-B	2-B	2-B	2-B	2-B
48 x 60	2-B	2-B	2-B	2-B	2-B	2-B	2-B	2-B
60 x 24	2-A	2-A	2-A	2-A	2-A	2-A	2-A	2-A
60 x 30	2-A	2-A	2-A	2-A	2-A	2-A	2-A	2-A
60 x 36	2-A	2-A	2-A	2-A	2-A	2-A	2-A	2-B
60 x 48	2-B	2-B	2-B	2-B	2-B	2-B	2-B	2-B
72 x 24	2-A	2-A	2-A	2-A	2-A	2-A	2-A	2-A
72 x 36	2-B	2-B	2-B	2-B	2-B	2-B	2-B	2-B
90 x 36	2-B	2-Type 3	2-B	2-Type 3	2-B	2-Type 3	2-B	2-Type 3
120 x 36	2-B	2-Type 3	2-B	2-Type 3	2-B	2-Type 3	2-B	2-Type 3

**NOTES:**

- See Standard Drawing E 802-SNGS-08 and -09 for square steel sign post installation details.
- The Type 1 post shall be 2 1/4 in. x 2 1/4 in. x 12 ga. wall thickness.
- The Type 2 post shall be 2 in. x 2 in. x 12 ga. wall thickness.
- The Type 3 post shall be 2 1/2 in. x 2 1/2 in. x 12 ga. wall thickness.
- Flanged channel posts are as specified and as shown on the plans.

**INDIANA DEPARTMENT OF TRANSPORTATION**  
**STEEL SIGN POST SELECTION TABLE**  
 SEPTEMBER 2017  
 STANDARD DRAWING NO. E 802-SNGS-07

Professional Engineer: David H. Boruff, No. 60900348, 03/16/17  
 Chief Engineer: John Leckie, 04/10/17



Last Saved By: pandora Printed: 8/20/24  
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Certified by: ENGINEER

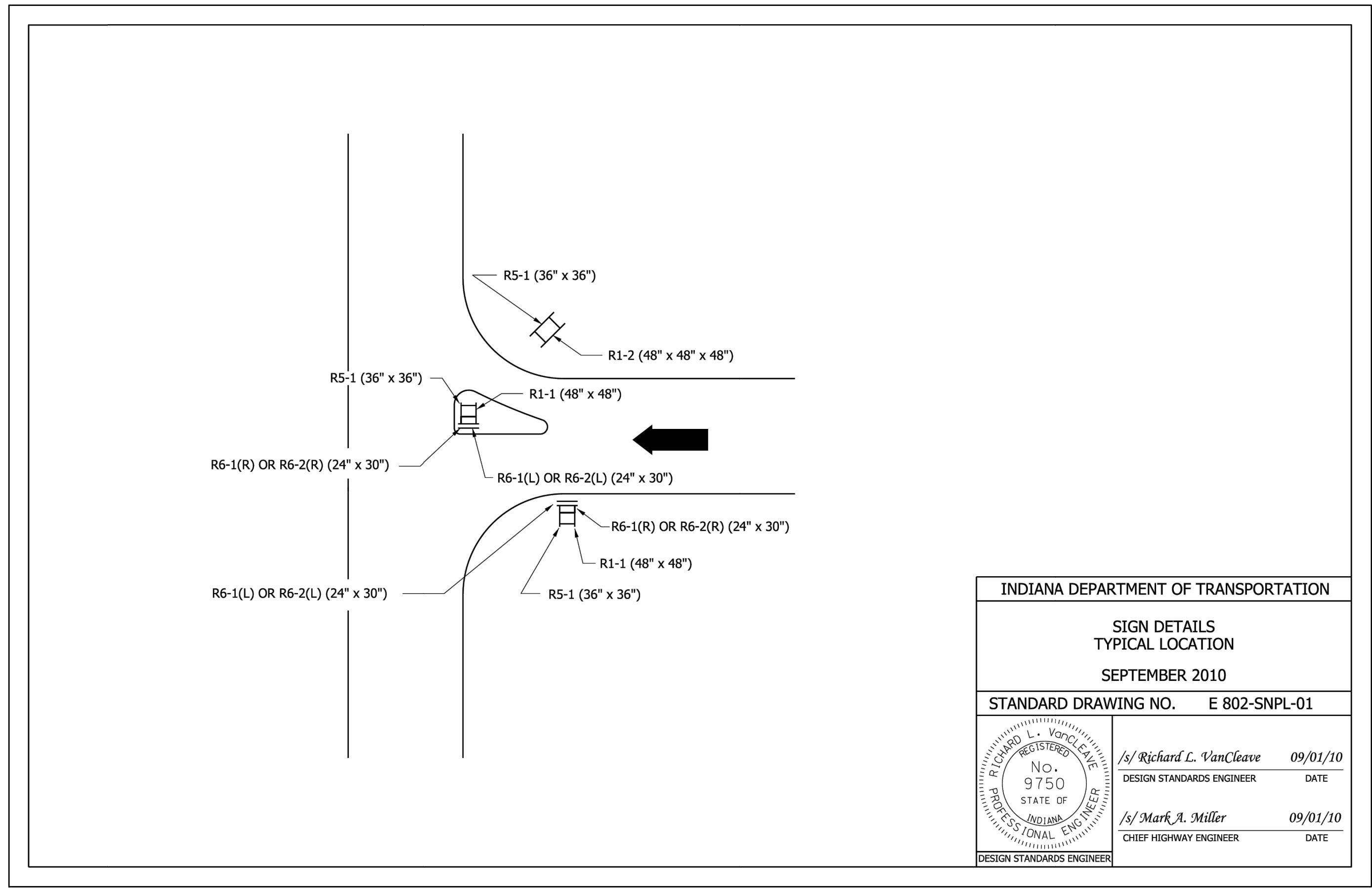
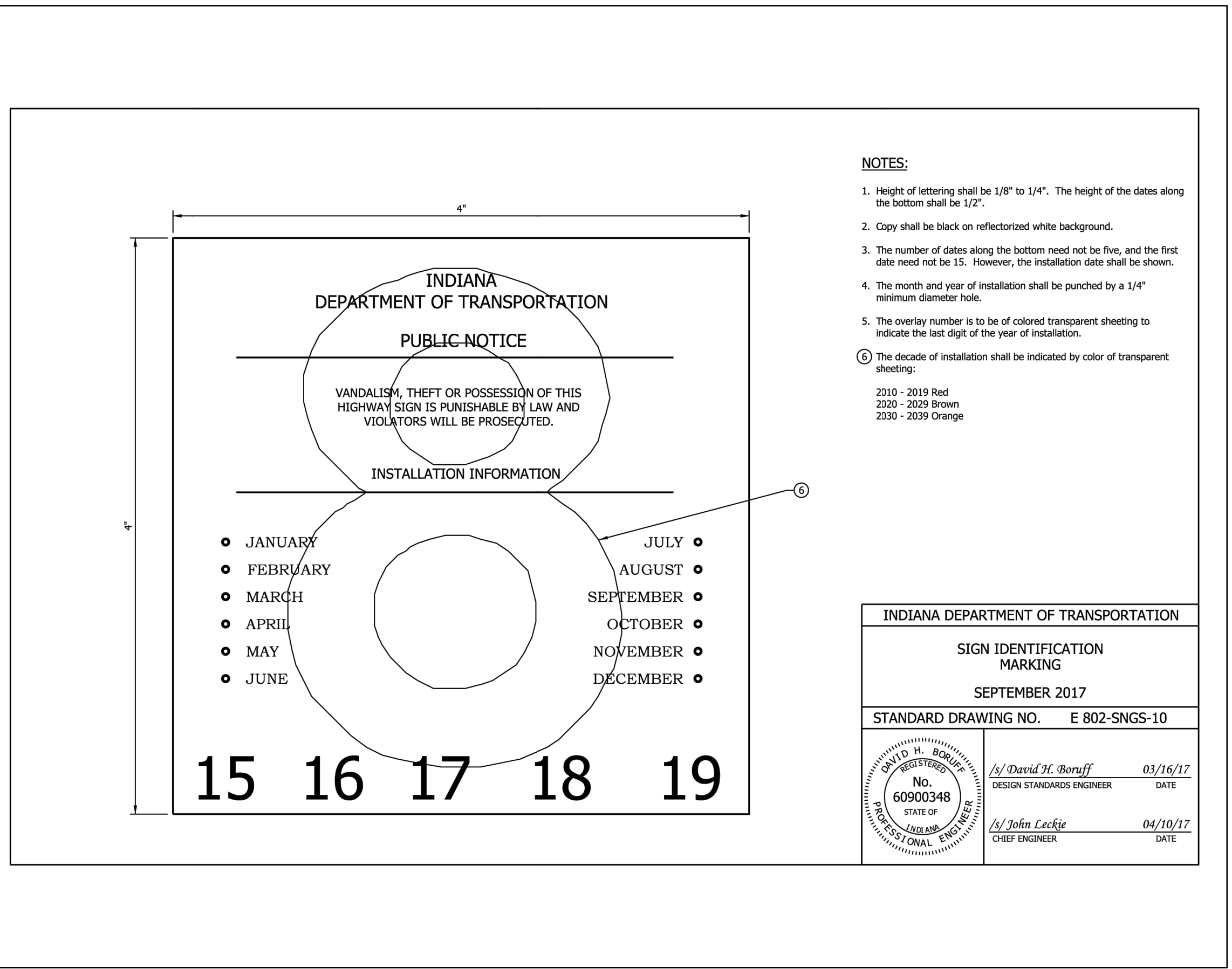


PUBLIC WORKS PROJECT NO. 89006007-23-034-C1  
 CENTERVILLE WELCOME CENTER  
 CENTERVILLE, INDIANA



Revisions:

Project Number:	89006007-23-034-C1
Requestion Number:	
Account Number:	
Designer:	ID
Drawing Date:	8/30/2024
Drafter:	JRC
Drawing Scale:	N/A
DAPW Approval:	
Client Approval:	
Reference Number:	1394
Building Reference:	
Drawing Number:	CS151
Sheet:	129 of 140

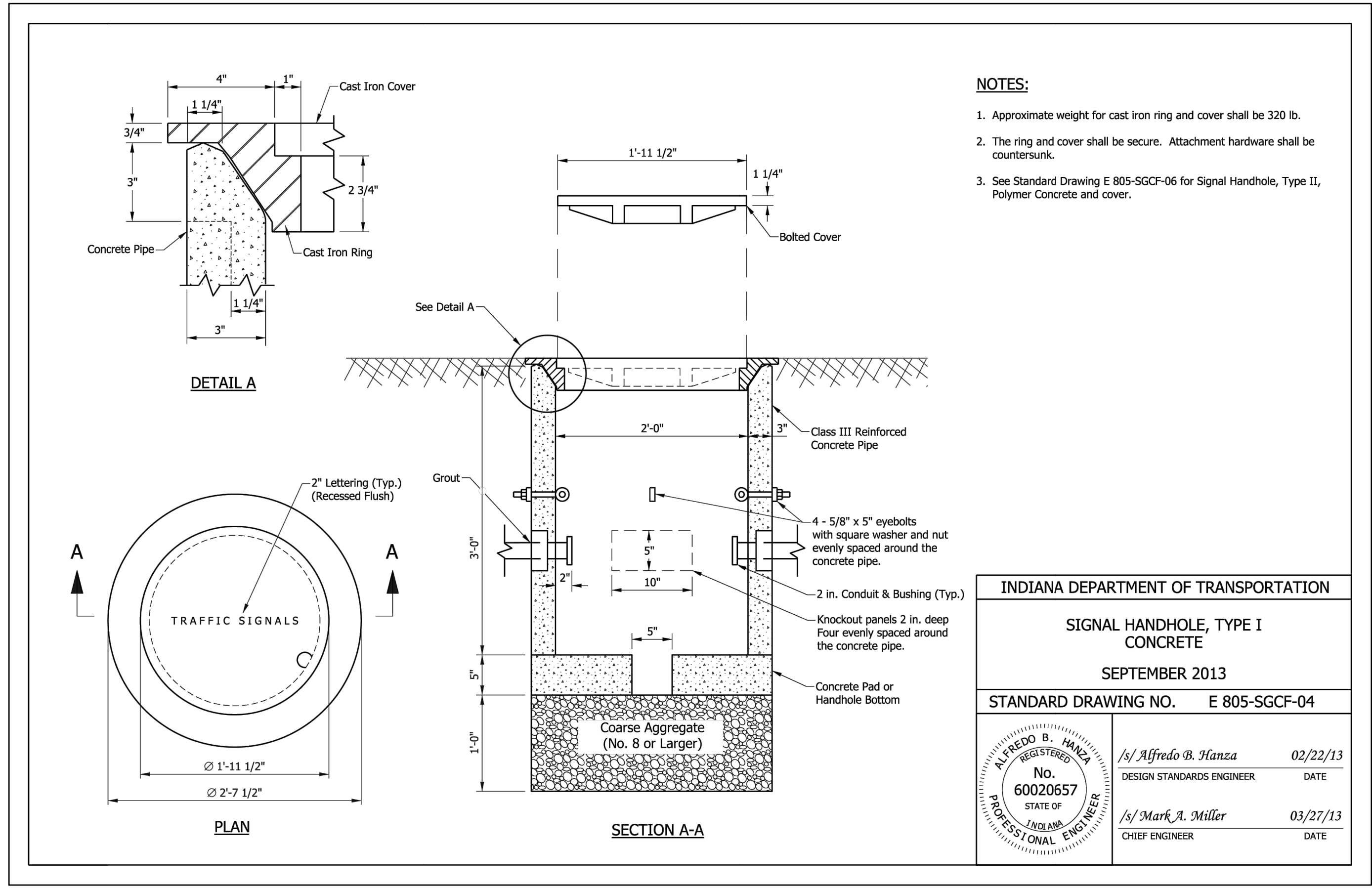


TYPE OF ROADWAY	INTERSTATE AND DIVIDED HIGHWAY WITH SHOULDER, RURAL & URBAN	DIVIDED HIGHWAY WITH CURB, RURAL & URBAN	NON-DIVIDED HIGHWAY, RURAL OR CITY STREET	NON-DIVIDED HIGHWAY, URBAN
CLEARANCE				
VERTICAL: EDGE OF TRAVELED WAY PAVEMENT TO BOTTOM OF SIGN OR SIGNS	7 ft TO 7.5 ft ①	7 ft TO 7.5 ft ②	5 ft TO 5.5 ft ④②	7 ft TO 7.5 ft ②
HORIZONTAL: EDGE OF TRAVELED WAY PAVEMENT TO EDGE OF SIGN OR SIGNS	12 ft min. or 6 ft min. from the shoulder, whichever is greater	6 ft min. ③	12 ft min. or 6 ft min. from the shoulder, whichever is greater	12 ft min. or 6 ft min. from the shoulder, whichever is greater ③

**NOTES:**

- If a secondary sign is mounted below another sign, the secondary sign shall be installed at least 5 ft. above the level of the pavement edge.
- The height to the bottom of a secondary sign mounted below another sign may be 1 ft. less than the height specified above.
- In urban areas where lateral offsets are limited, a minimum lateral offset of 2 ft. may be used. A minimum offset of 1 ft. from the face of the curb may be used in urban areas where sidewalk width is limited or where existing poles are close to the curb.
- Where parking or pedestrian movements occur on an expected recurring basis, the clearance to the bottom of the sign shall be at least 7 ft.

INDIANA DEPARTMENT OF TRANSPORTATION	
HORIZONTAL AND VERTICAL SHEET SIGN CLEARANCE	
SEPTEMBER 2003	
STANDARD DRAWING NO. E 802-SNPL-02	
	/s/ Alfredo B. Hanza 02/22/13 DESIGN STANDARDS ENGINEER DATE
	/s/ Mark A. Miller 03/27/13 CHIEF ENGINEER DATE



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Certified by: ENGINEER

**JSE**  
 JANSSEN & SPANNS ENGINEERING  
 jseengr.com  
 9120 Harrison Park Court - Indianapolis, IN 46216

**krM**  
 Architecture  
 1515 N. Pennsylvania St.  
 Indianapolis, Indiana

**RATIO**  
 LANDSCAPE ARCHITECTURE  
 30 W Monroe Street, Suite 500  
 Chicago, IL 60603  
 T: 312.465.2359  
 www.ratiodesign.com

**Applied**  
 Engineering Services

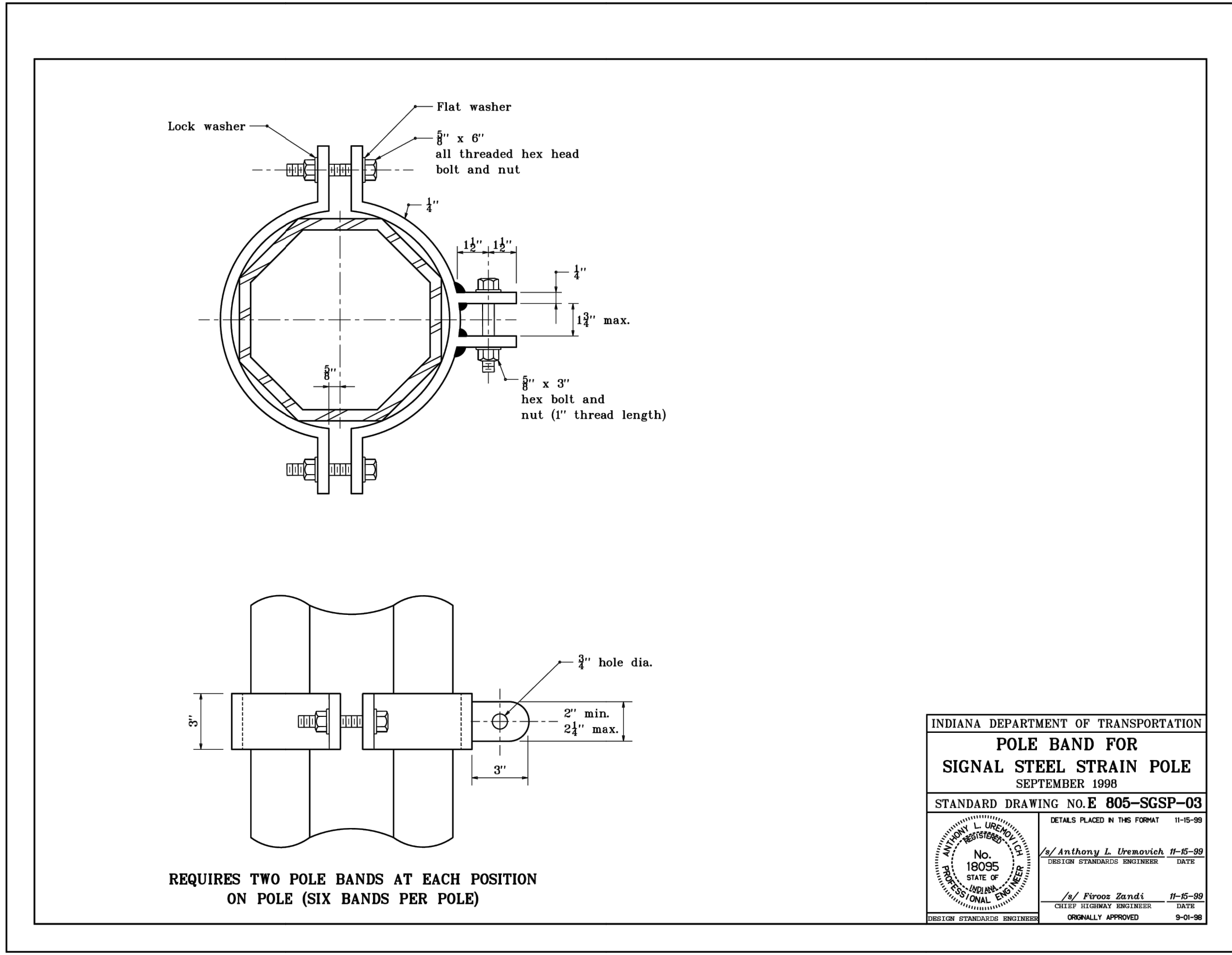
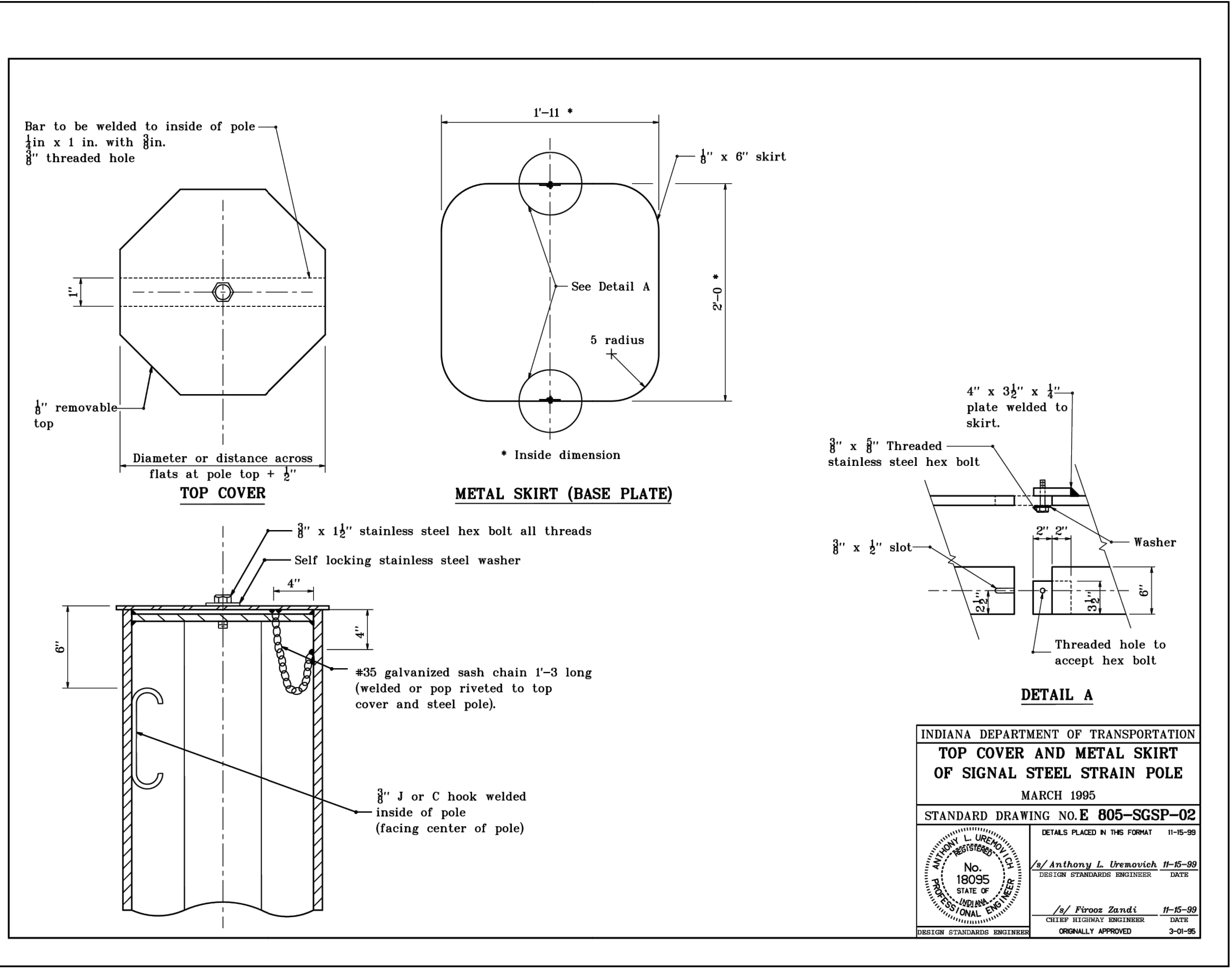
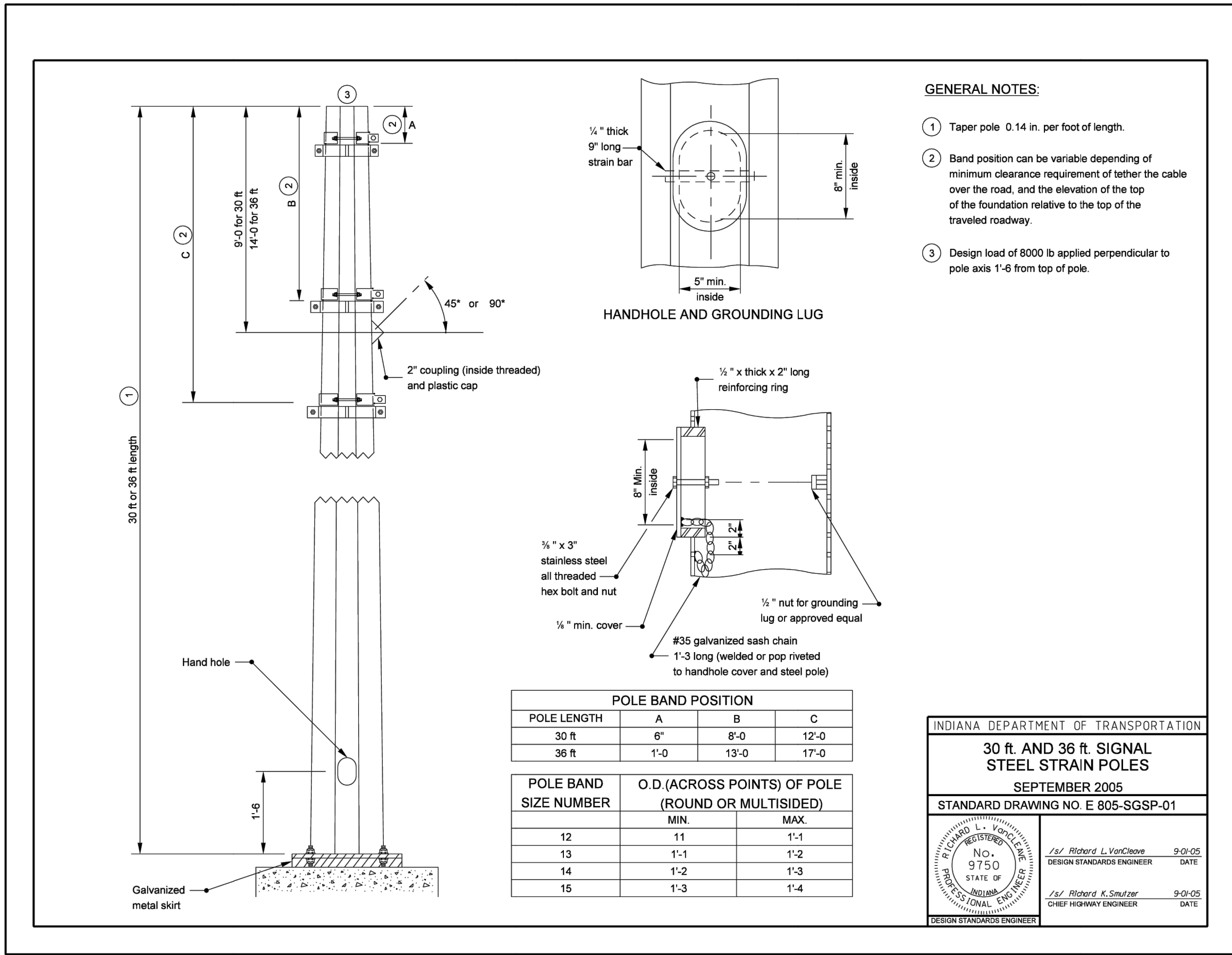
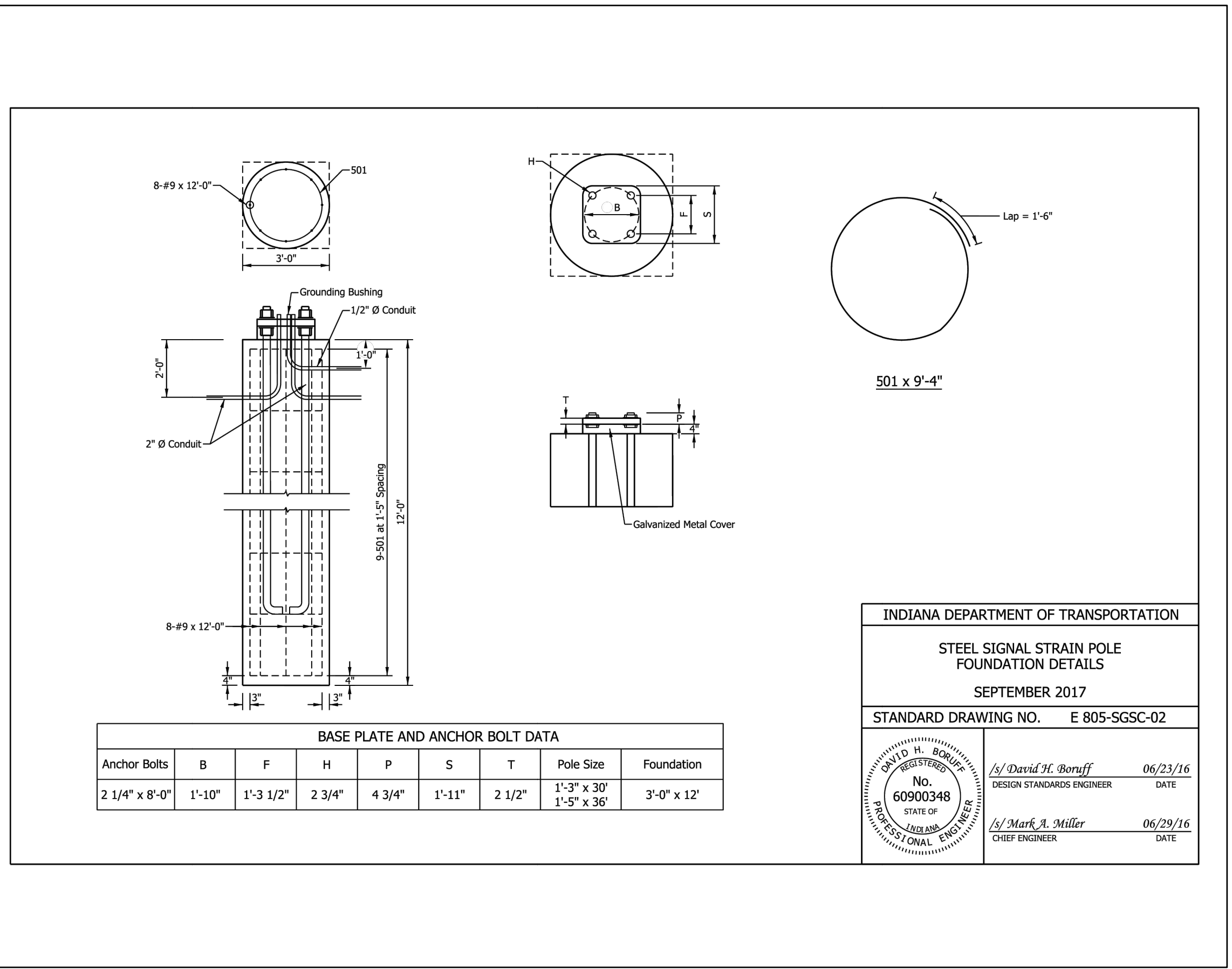
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 CENTERVILLE WELCOME CENTER  
 CENTERVILLE, INDIANA

**IDOA**

**INDIANA DEPARTMENT OF TRANSPORTATION**

Revisions:

Project Number:	89006007-23-034-C1
Requisition Number:	
Account Number:	
Designer:	ID
Drawing Date:	8/30/2024
Drafter:	JRC
Drawing Scale:	N/A
DAPW Approval:	
Client Approval:	
Reference Number:	1394
Building Reference:	
Drawing Number:	CS152
Sheet:	130 of 140



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Certified by: **ENGINEER**

**JSE**  
 JANSSEN & SPANNS ENGINEERING  
 jseengr.com  
 9103 Horizon Park Court - Indianapolis, IN 46216

**krM**  
 Architects  
 1515 N. Pennsylvania St.  
 Indianapolis, Indiana

**RATIO**  
 LANDSCAPE ARCHITECTURE  
 30 W Monroe Street, Suite 500  
 Chicago, IL 60603  
 T: 312.465.2359  
 www.ratiodesign.com

**Applied**  
 Engineering Services

PUBLIC WORKS PROJECT NO. 89006007-23-034-C1  
 CENTERVILLE WELCOME CENTER  
 CENTERVILLE, INDIANA

**IDOA**

**INDIANA DEPARTMENT OF TRANSPORTATION**

Revisions:

Project Number: 89006007-23-034-C1  
 Requisition Number:

Account Number:

Designer: IID Drawing Date: 8/30/2024  
 Drafter: JRC Drawing Scale: N/A

DAPW Approval:

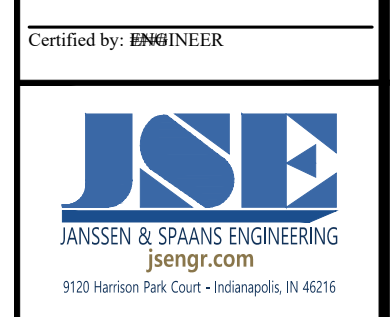
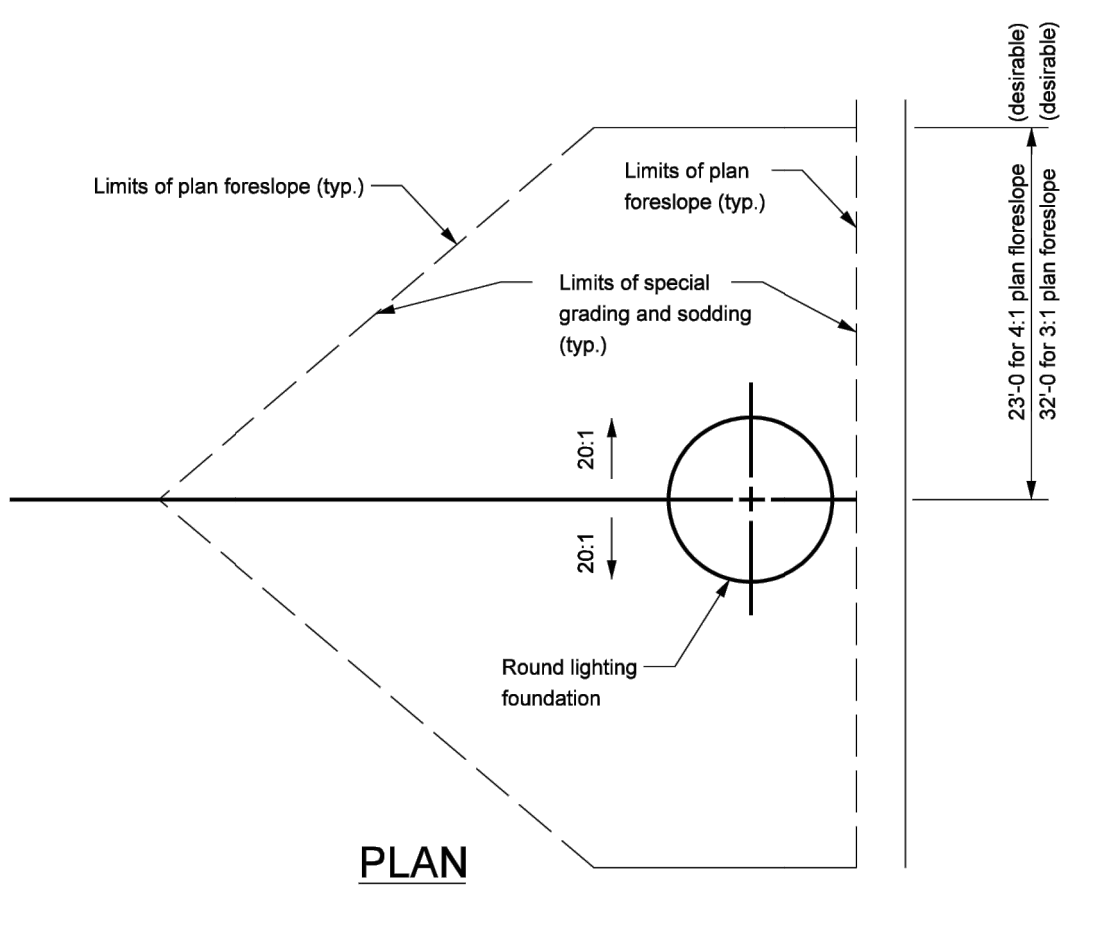
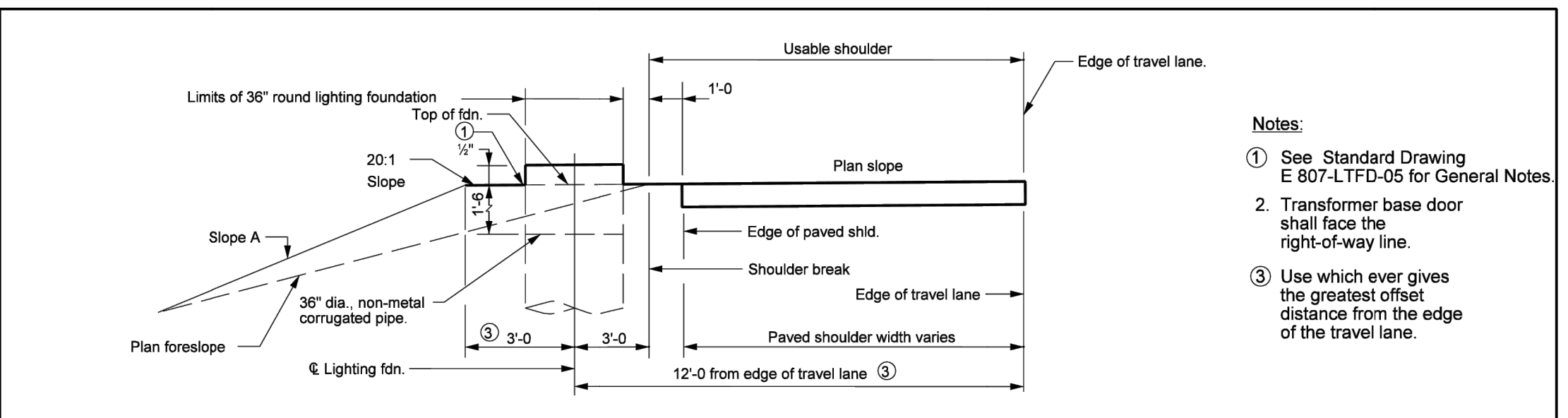
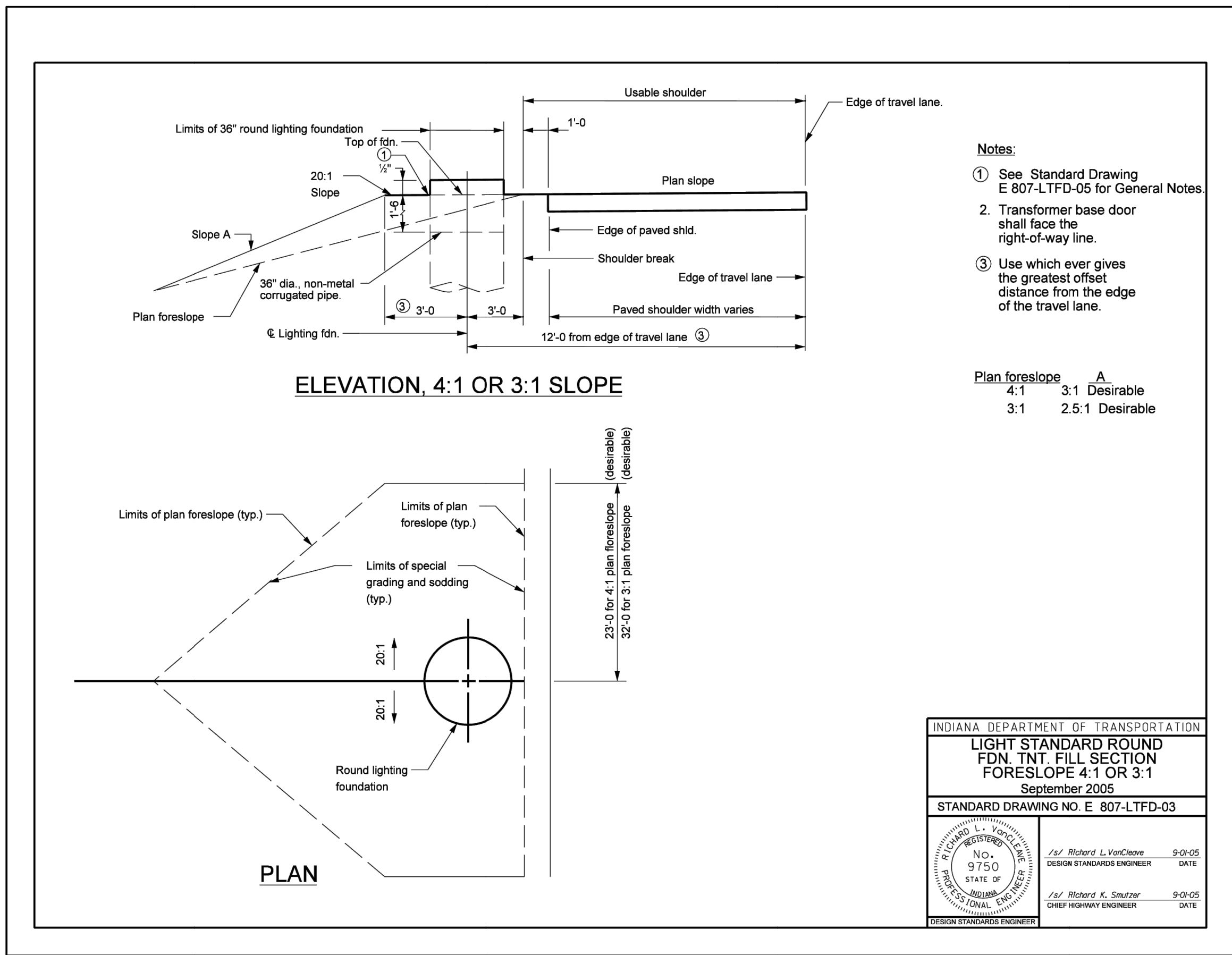
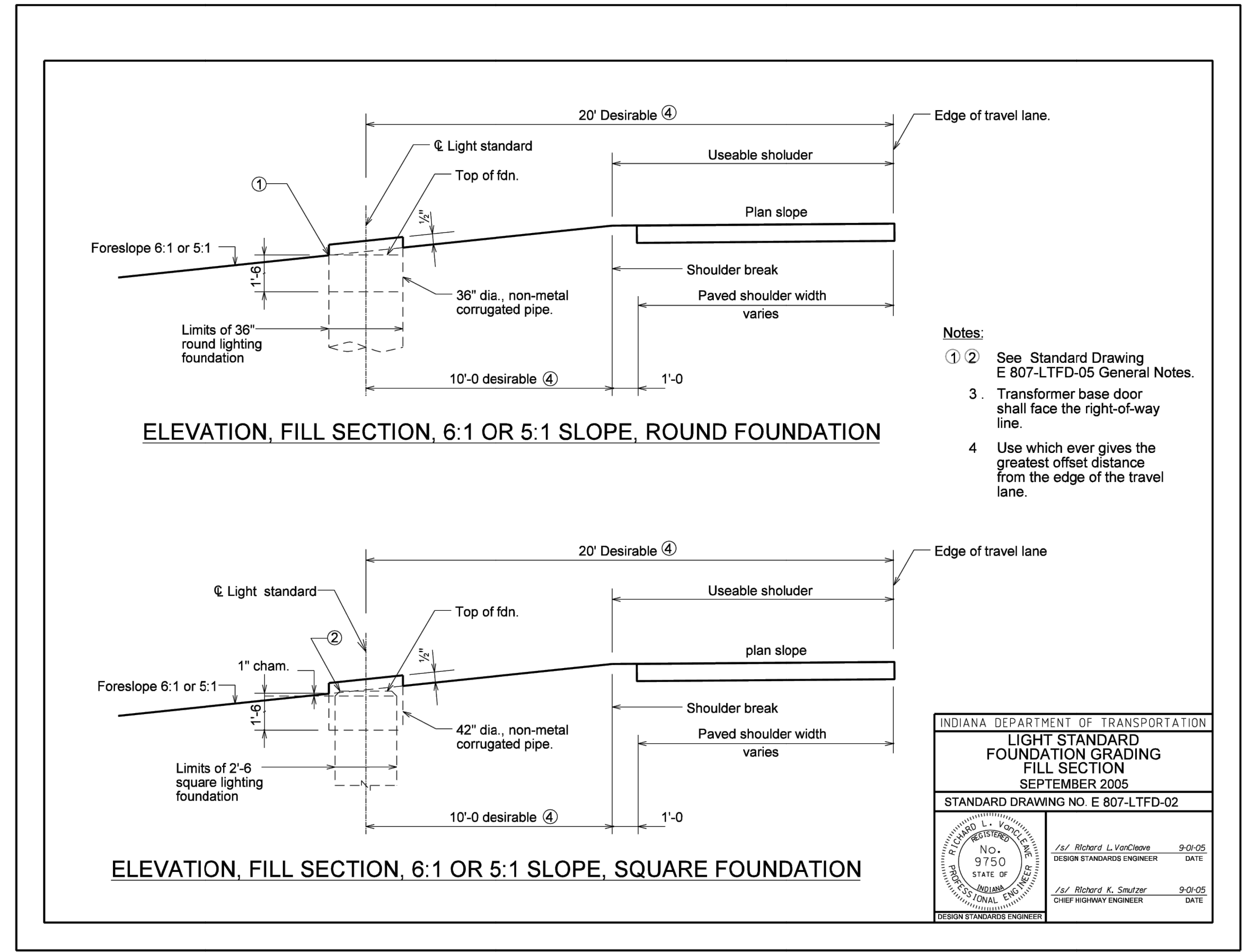
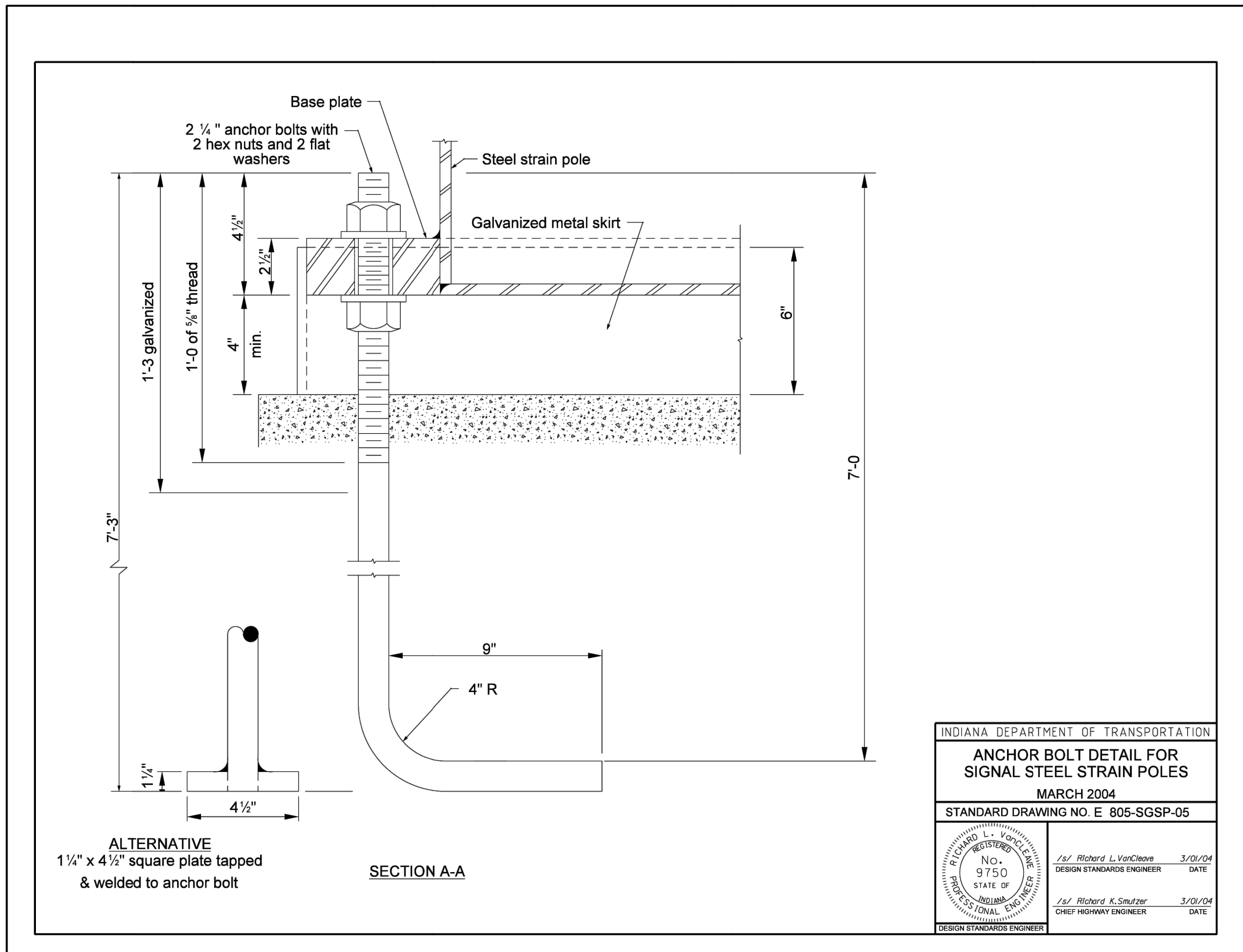
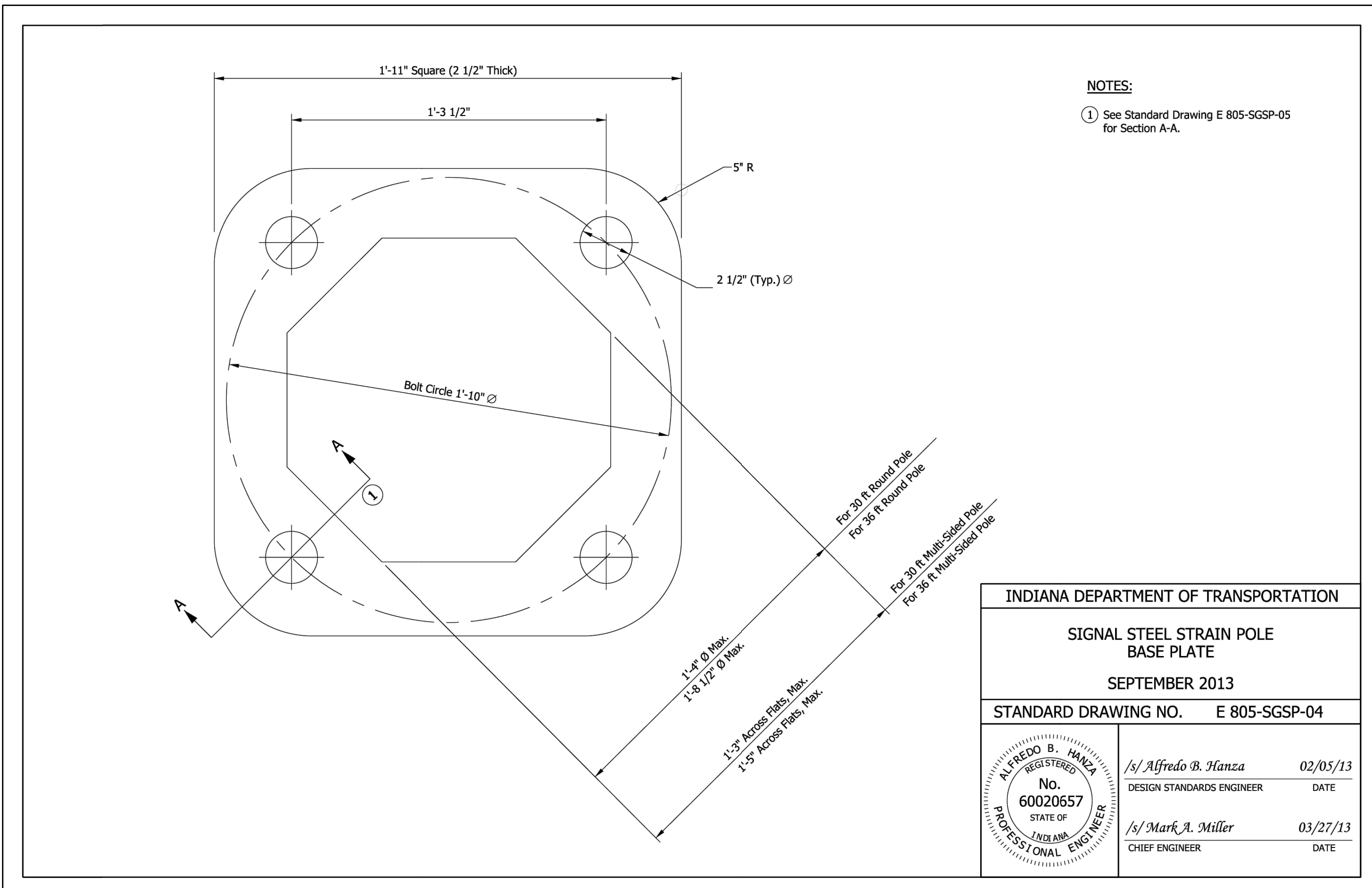
Client Approval:

Reference Number: 1394

Building Reference:

Drawing Number: CS153

Sheet: 131 of 140



PUBLIC WORKS PROJECT NO. 89006007-23-034-C1  
 CENTERVILLE WELCOME CENTER  
 CENTERVILLE, INDIANA

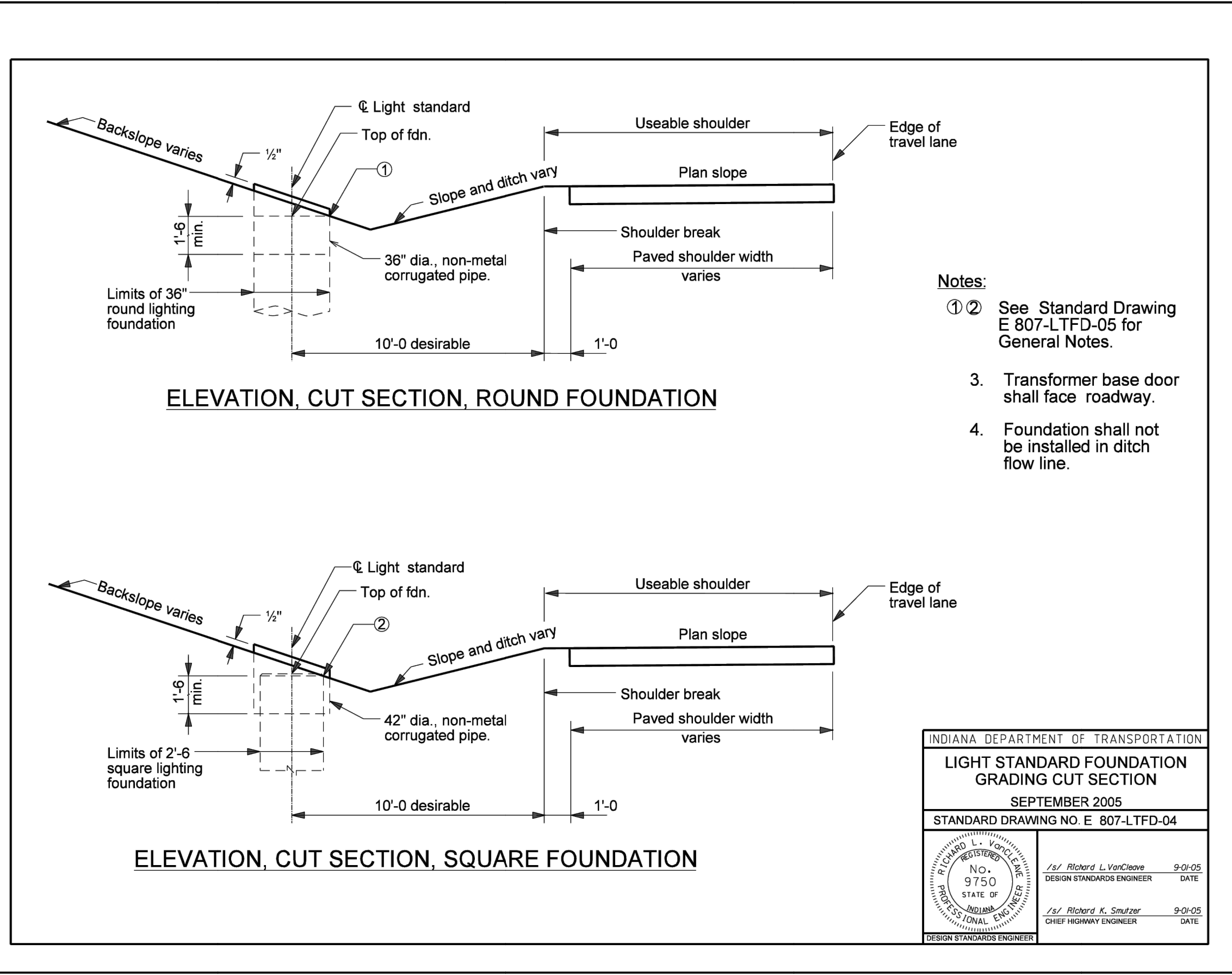


Revisions:

Project Number: 89006007-23-034-C1  
 Requisition Number:  
 Account Number:  
 Designer: IID Drawing Date: 8/30/2024  
 Drafter: JRC Drawing Scale: N/A  
 DAPW Approval:  
 Client Approval:  
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 Drawing Number: CS154  
 Sheet: 132 of 140

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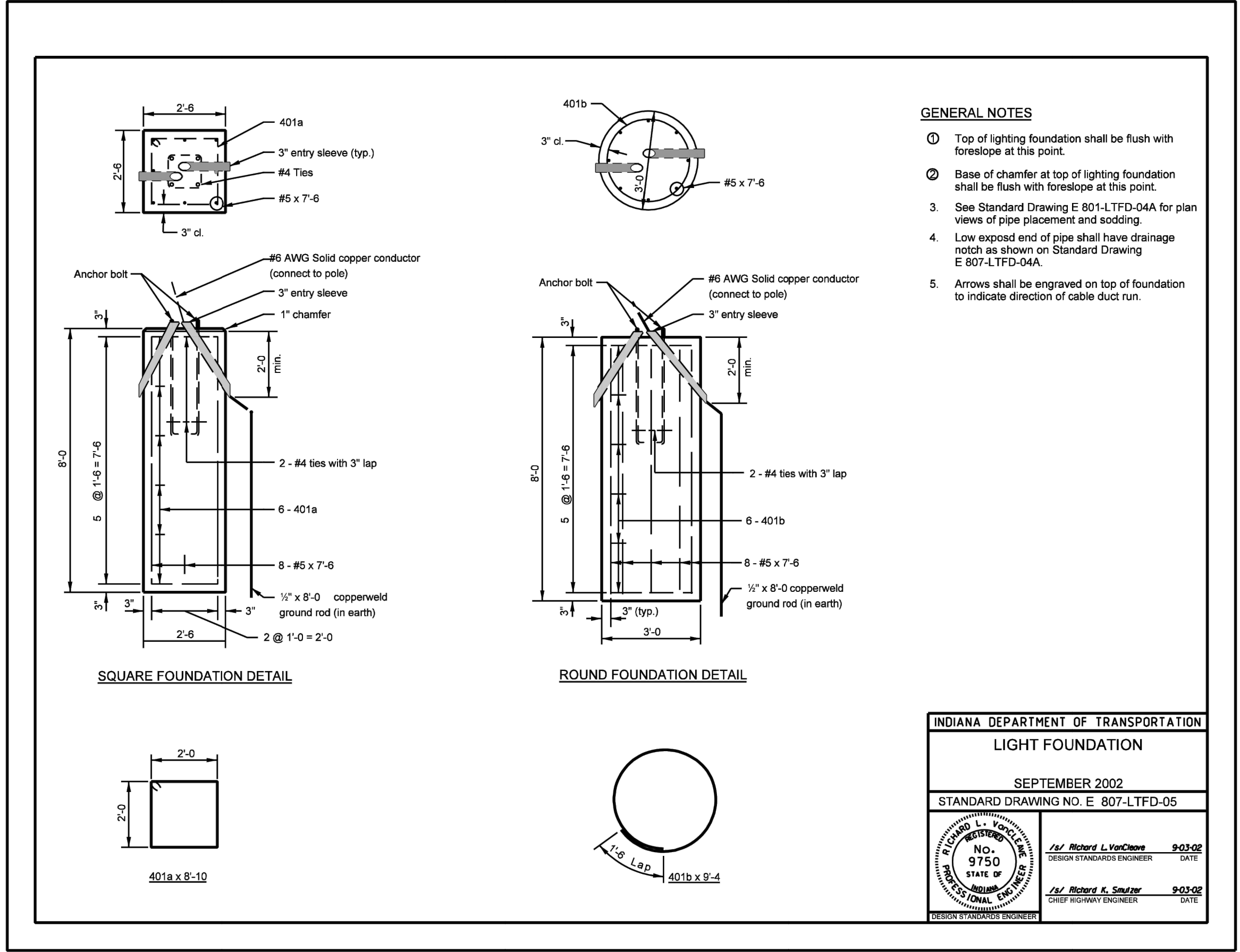




INDIANA DEPARTMENT OF TRANSPORTATION  
**LIGHT STANDARD FOUNDATION GRADING CUT SECTION**  
 SEPTEMBER 2005  
 STANDARD DRAWING NO. E 807-LTFD-04

*/s/ Richard L. VanCleave* 9-01-05  
 DESIGN STANDARDS ENGINEER DATE

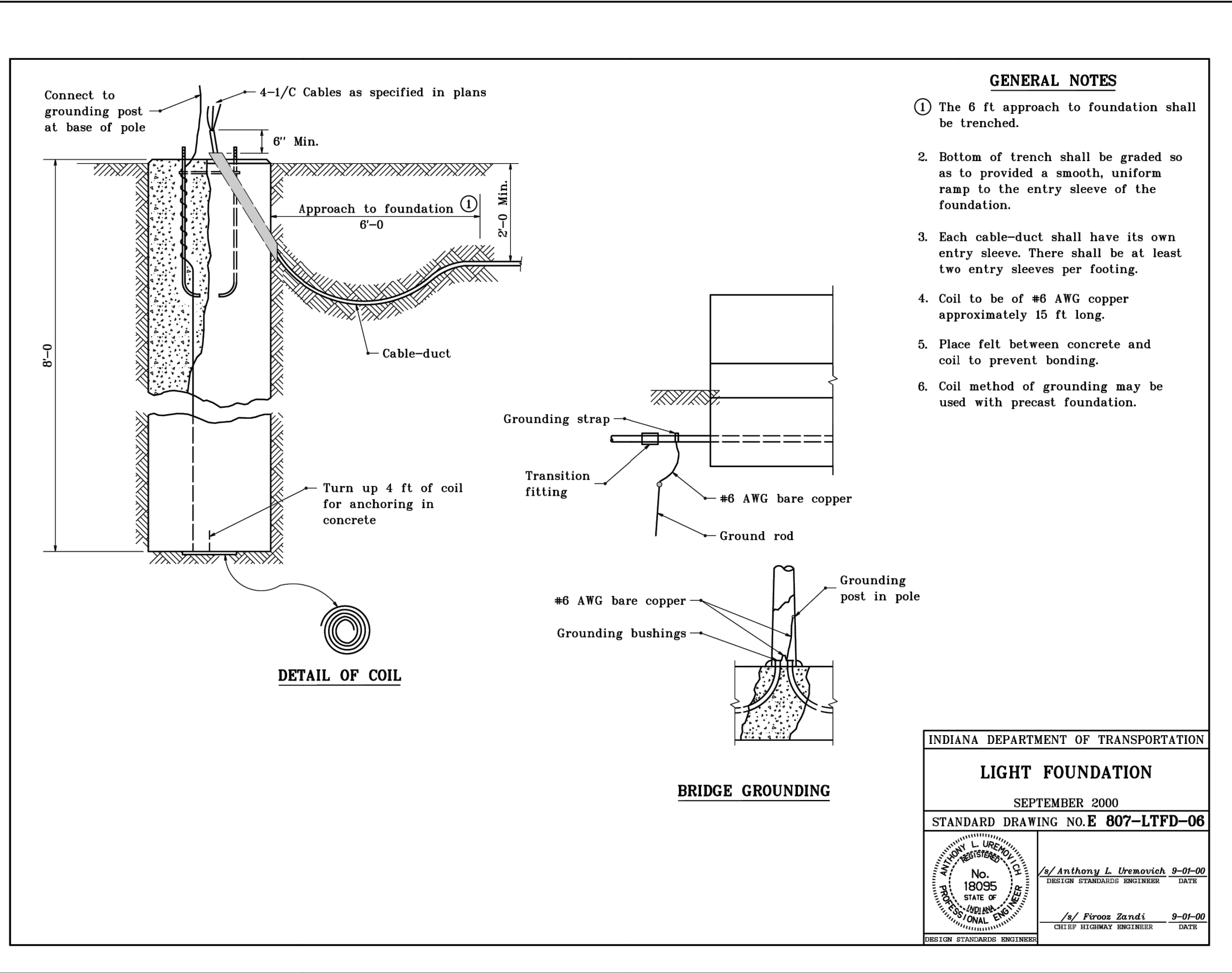
*/s/ Richard K. Smutzer* 9-01-05  
 CHIEF HIGHWAY ENGINEER DATE



INDIANA DEPARTMENT OF TRANSPORTATION  
**LIGHT FOUNDATION**  
 SEPTEMBER 2002  
 STANDARD DRAWING NO. E 807-LTFD-05

*/s/ Richard L. VanCleave* 9-01-02  
 DESIGN STANDARDS ENGINEER DATE

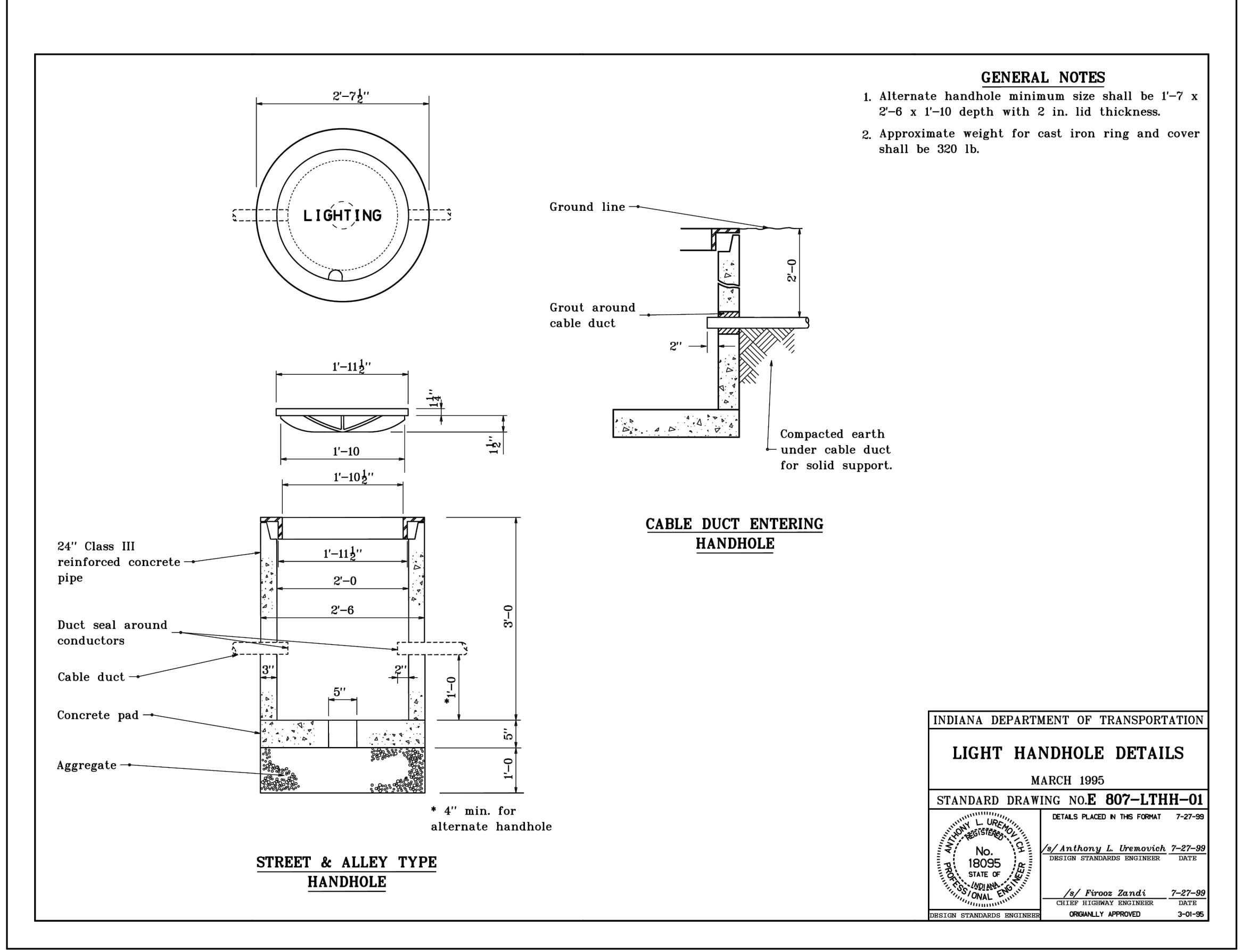
*/s/ Richard K. Smutzer* 9-01-02  
 CHIEF HIGHWAY ENGINEER DATE



INDIANA DEPARTMENT OF TRANSPORTATION  
**LIGHT FOUNDATION**  
 SEPTEMBER 2000  
 STANDARD DRAWING NO. E 807-LTFD-06

*/s/ Anthony L. Uremovitch* 9-01-00  
 DESIGN STANDARDS ENGINEER DATE

*/s/ Ferooz Zandi* 9-01-00  
 CHIEF HIGHWAY ENGINEER DATE



INDIANA DEPARTMENT OF TRANSPORTATION  
**LIGHT HANDHOLE DETAILS**  
 MARCH 1995  
 STANDARD DRAWING NO. E 807-LTHH-01

*/s/ Anthony L. Uremovitch* 3-27-95  
 DESIGN STANDARDS ENGINEER DATE

*/s/ Ferooz Zandi* 3-27-95  
 CHIEF HIGHWAY ENGINEER DATE

Plot Saved By: pwinnow Printed: 2/27/24 P:\1394 - Centerville Welcome Center (JMS) SFT\1394-Centerville-CS155-INDOT-800.dwg Aug 20, 2024 - 7:16:32 am



PUBLIC WORKS PROJECT NO. 89006007-23-034-C1  
 CENTERVILLE WELCOME CENTER  
 CENTERVILLE, INDIANA

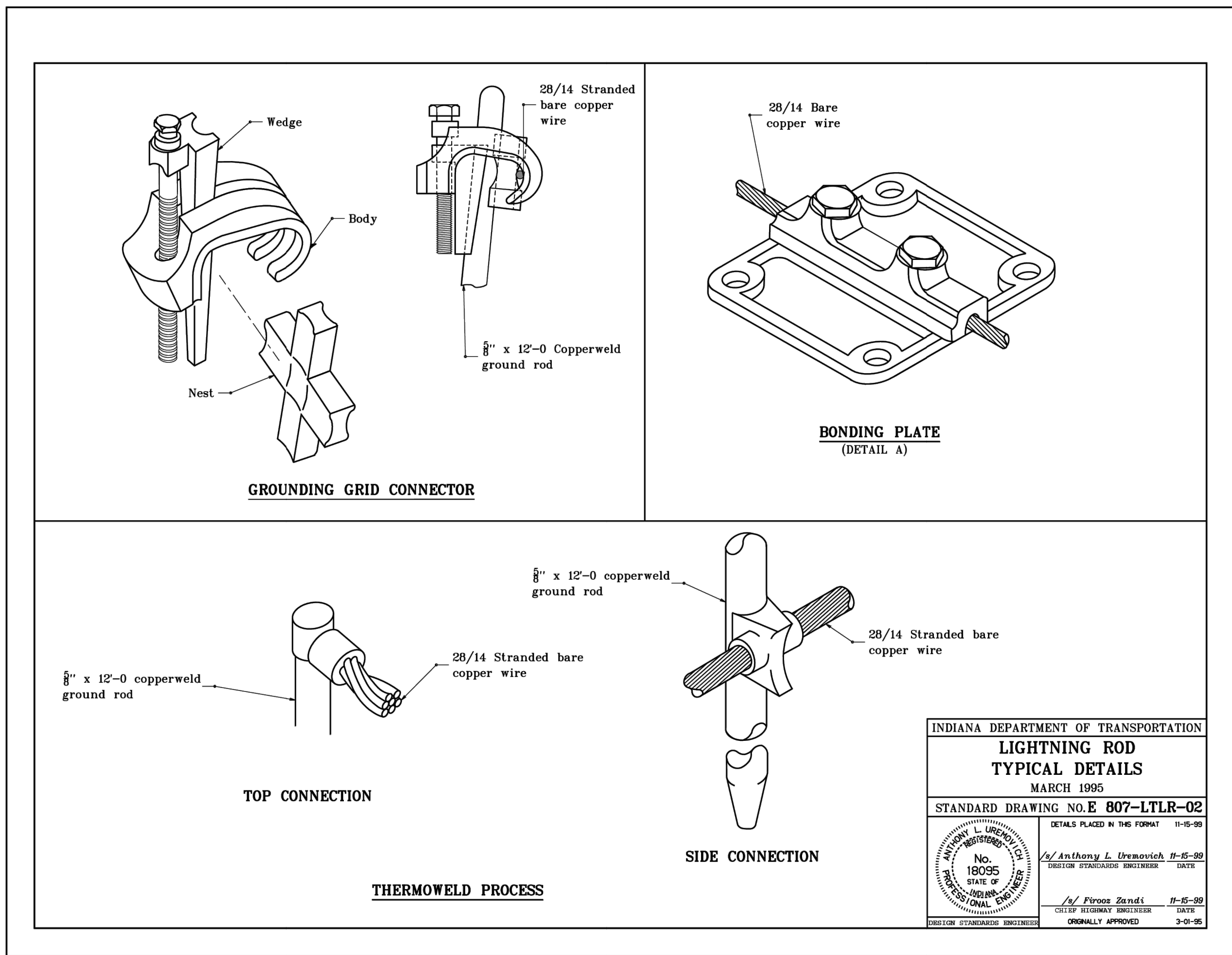
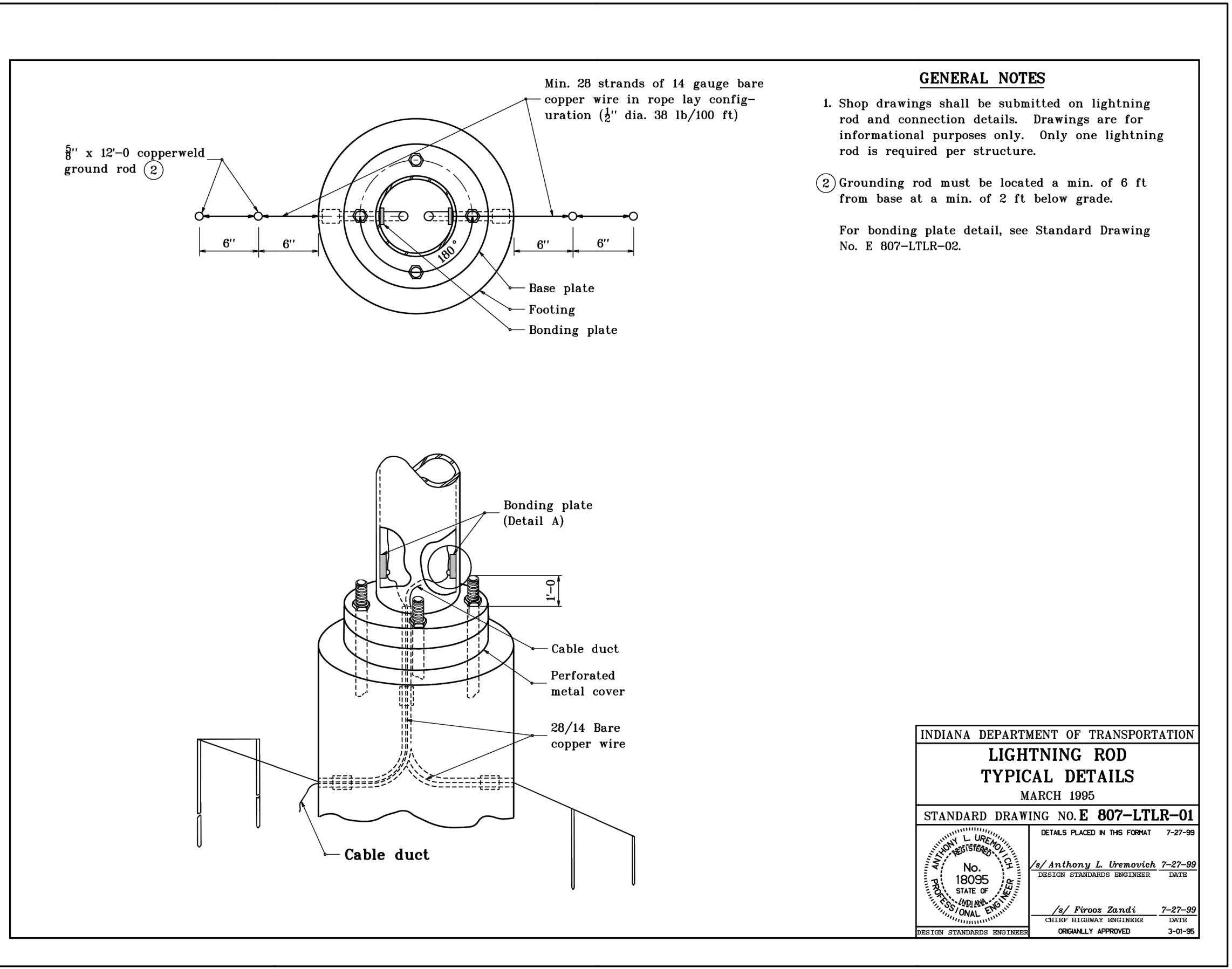
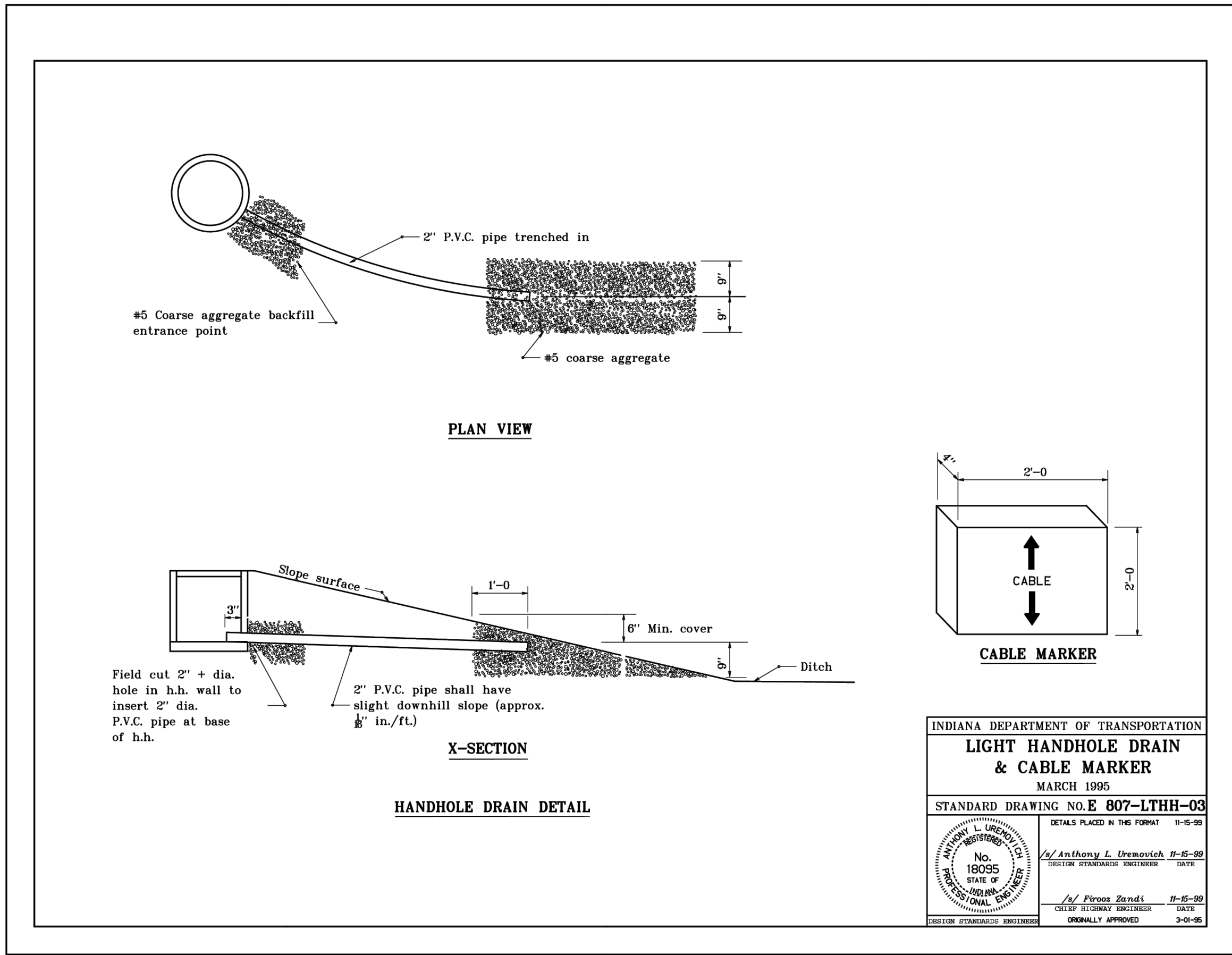
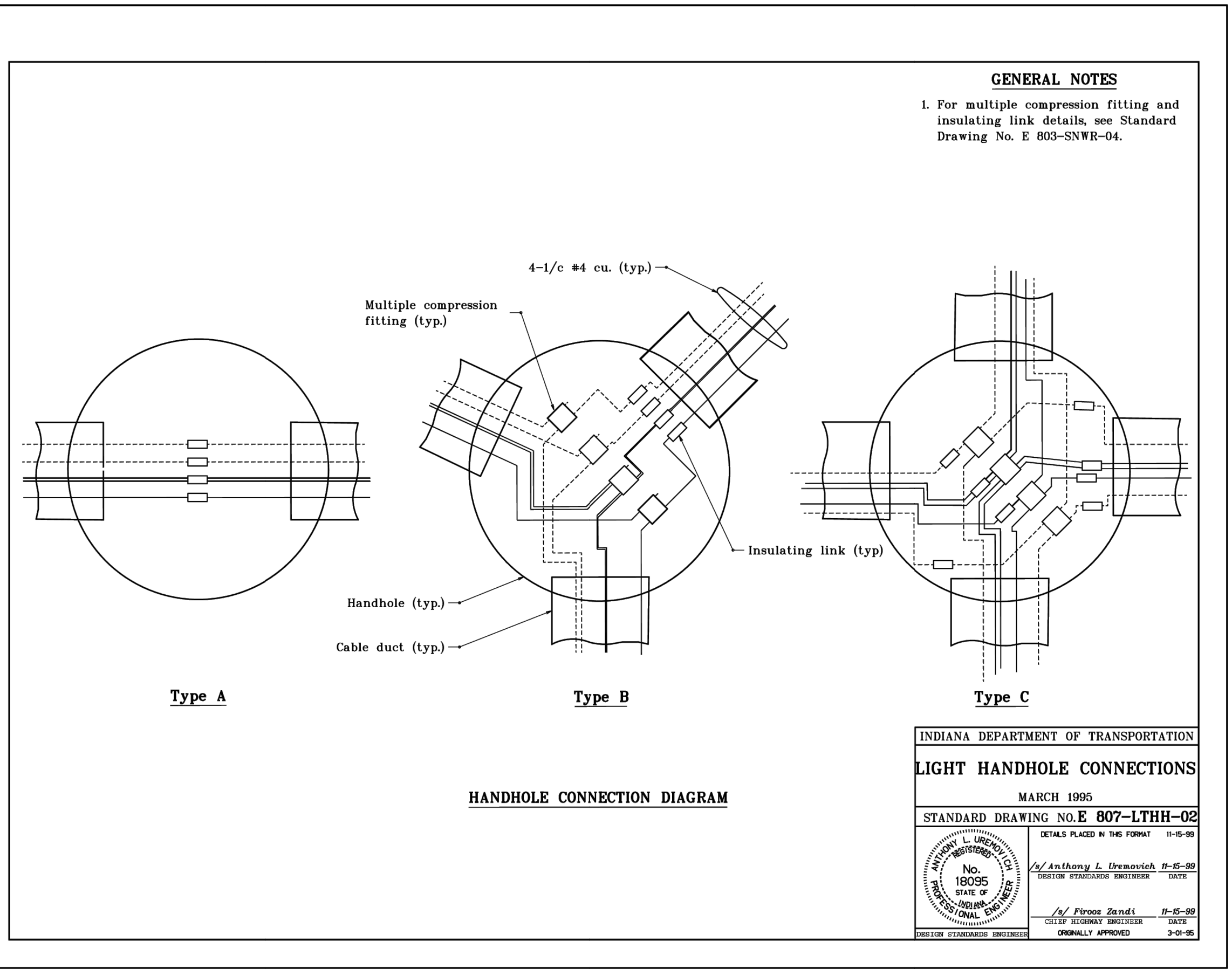


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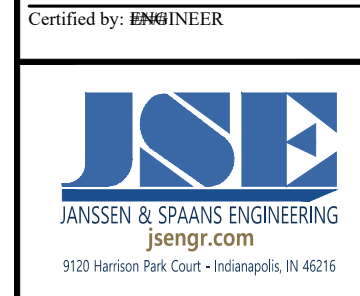
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 Requisition Number:  
 Account Number:

Designer: IID Drawing Date: 8/30/2024  
 Drafter: JRC Drawing Scale: N/A  
 DAPW Approval:  
 Client Approval:

Reference Number: 1394  
 Building Reference:  
 Drawing Number:  
 Sheet: 133 of 140



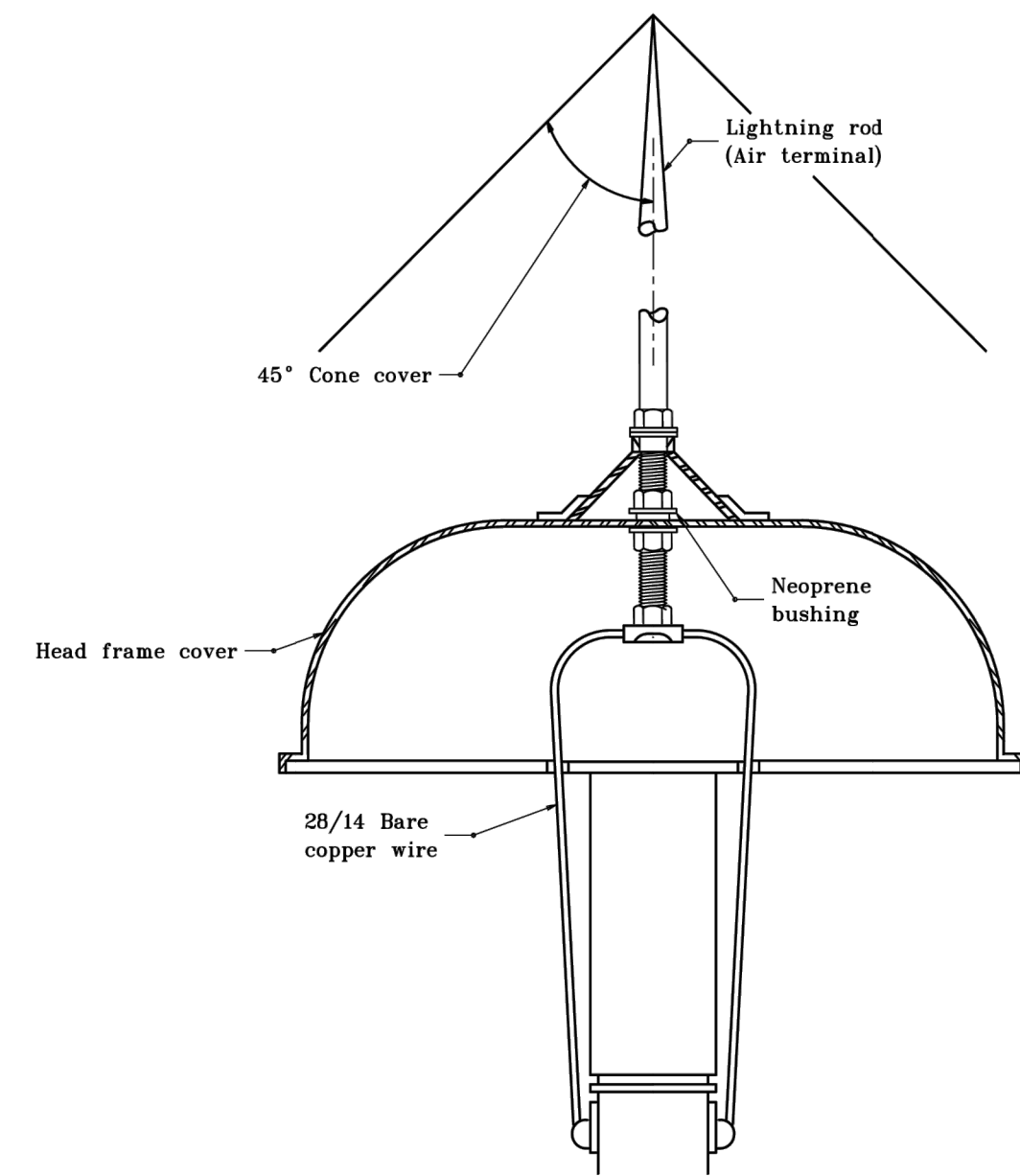
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PUBLIC WORKS PROJECT NO. 89006007-23-034-C1  
 CENTERVILLE WELCOME CENTER  
 CENTERVILLE, INDIANA



Revisions:	
Project Number:	89006007-23-034-C1
Requestion Number:	
Account Number:	
Designer:	ID
Drawing Date:	8/30/2024
Drafter:	JRC
Drawing Scale:	N/A
DAPW Approval:	
Client Approval:	
Reference Number:	1394
Building Reference:	
Drawing Number:	CS156
Sheet:	134 of 140



CENTER HOOD MOUNT

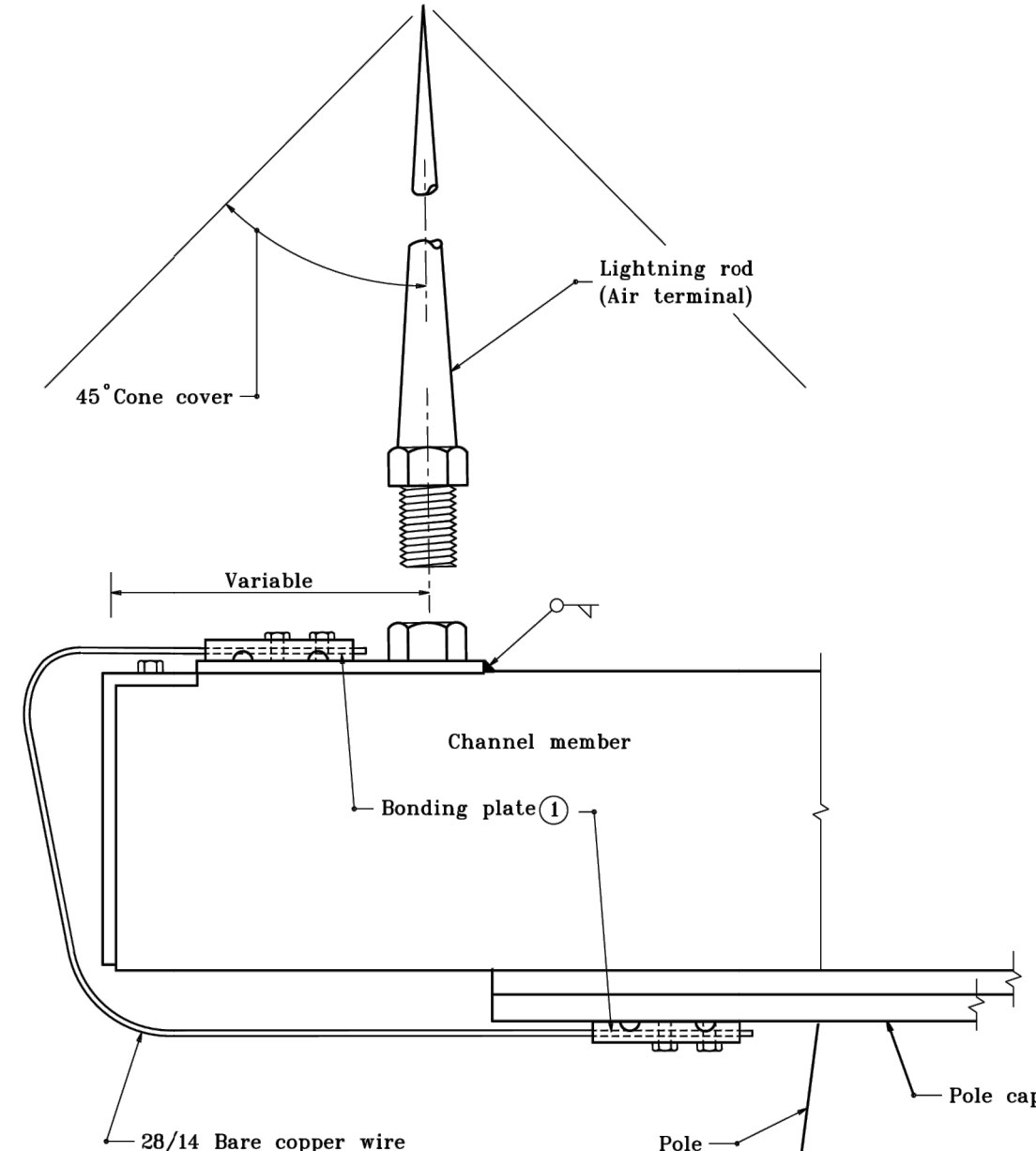
INDIANA DEPARTMENT OF TRANSPORTATION  
**LIGHTNING ROD  
 TYPICAL DETAILS**  
 MARCH 1995  
 STANDARD DRAWING NO. E 807-LTLR-03  
 DETAILS PLACED IN THIS FORMAT 11-15-99

No. 18095  
 STATE OF INDIANA  
 PROFESSIONAL ENGINEER

Anthony L. Uremovich 11-15-99  
 DESIGN STANDARD ENGINEER DATE

Firooz Zandi 11-15-99  
 CHECK ELECTRICAL ENGINEER DATE

ORIGINALLY APPROVED 3-0-95



CHANNEL MOUNT

NOTES  
 ① See Standard Drawing E 807-LTLR-02 for Detail A.

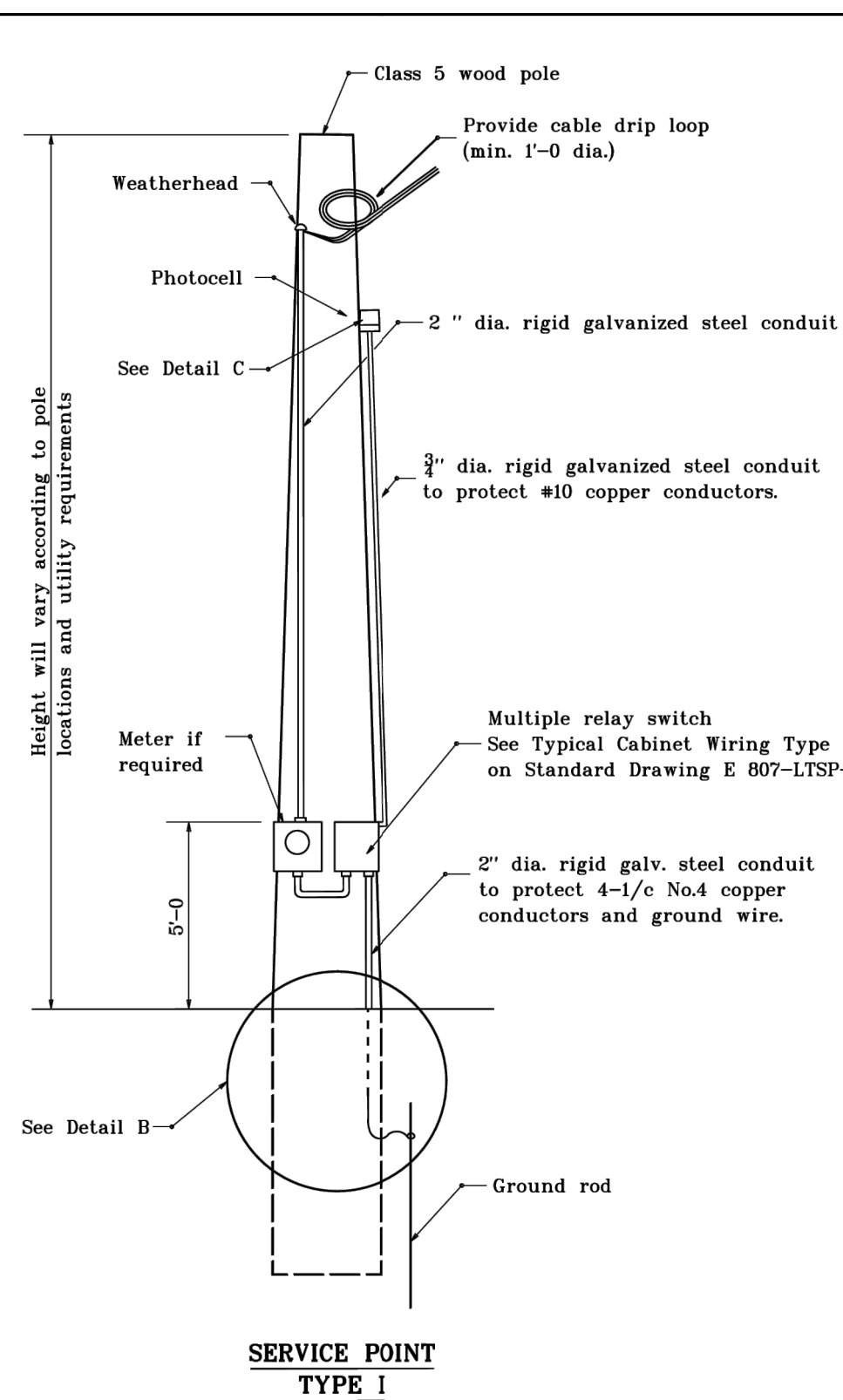
INDIANA DEPARTMENT OF TRANSPORTATION  
**LIGHTNING ROD  
 TYPICAL DETAILS**  
 MARCH 1995  
 STANDARD DRAWING NO. E 807-LTLR-04  
 DETAILS PLACED IN THIS FORMAT 11-15-99

No. 18095  
 STATE OF INDIANA  
 PROFESSIONAL ENGINEER

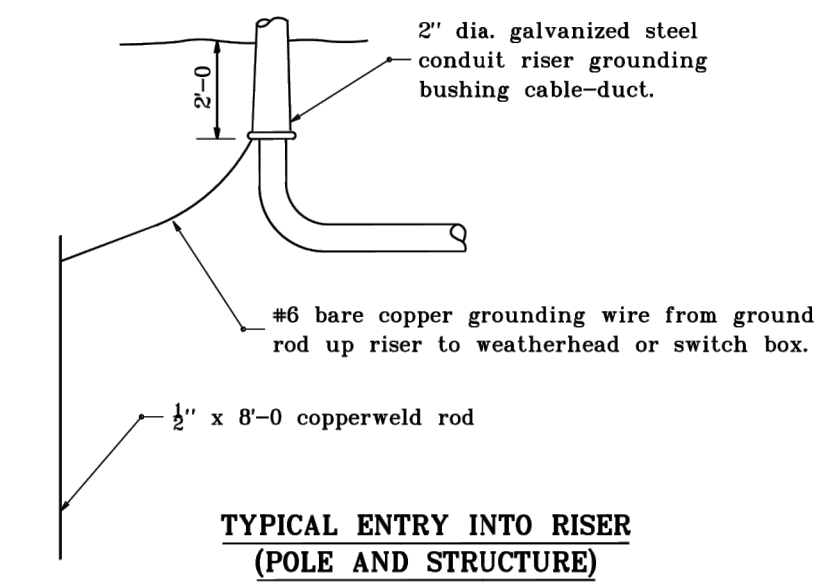
Anthony L. Uremovich 11-15-99  
 DESIGN STANDARD ENGINEER DATE

Firooz Zandi 11-15-99  
 CHECK ELECTRICAL ENGINEER DATE

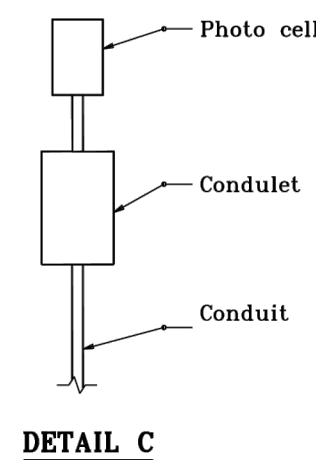
ORIGINALLY APPROVED 3-0-95



SERVICE POINT  
 TYPE I



TYPICAL ENTRY INTO RISER  
 (POLE AND STRUCTURE)  
 DETAIL B



DETAIL C

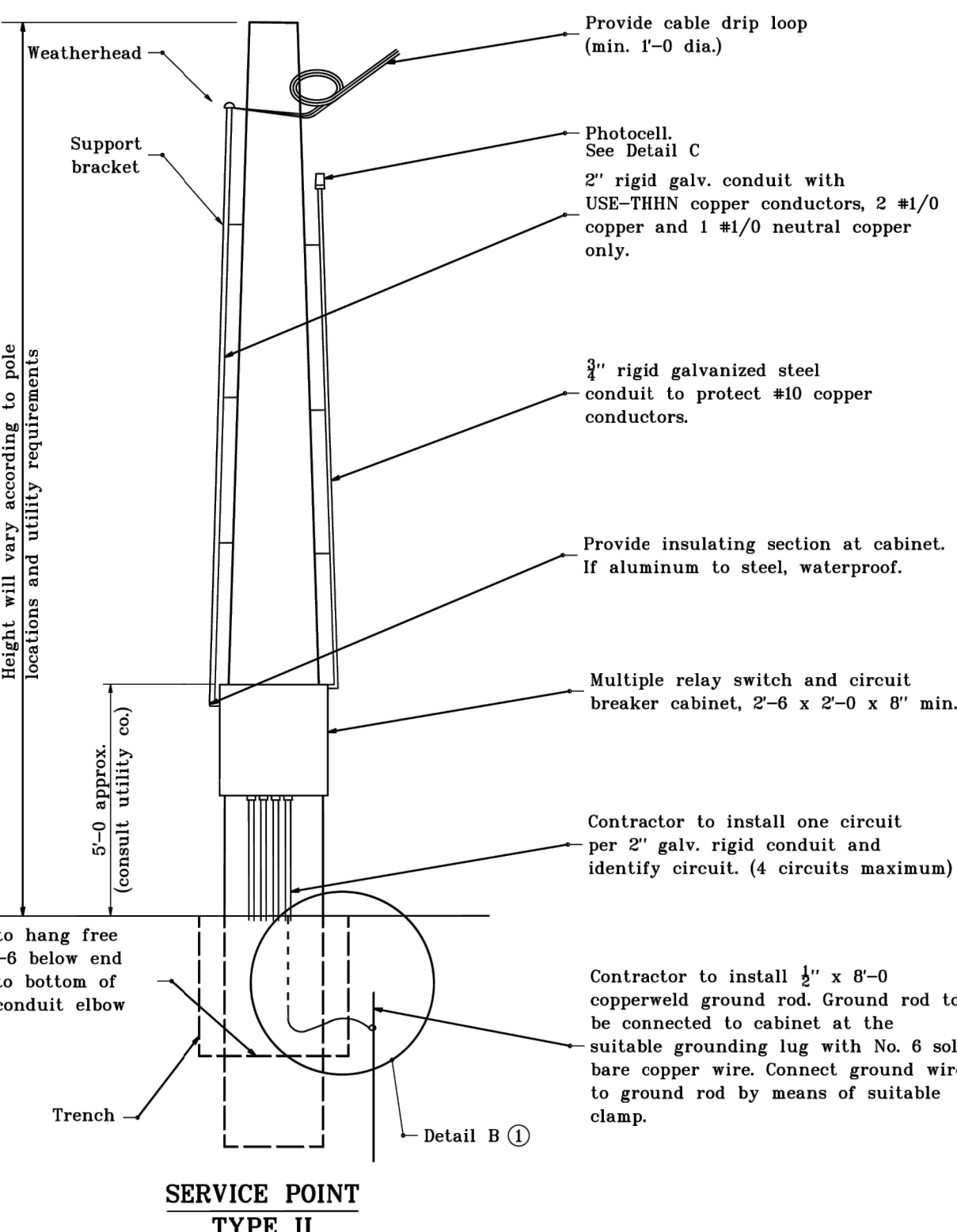
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**LIGHT SERVICE POINT DETAILS**  
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 DETAILS PLACED IN THIS FORMAT 11-15-99

No. 18095  
 STATE OF INDIANA  
 PROFESSIONAL ENGINEER

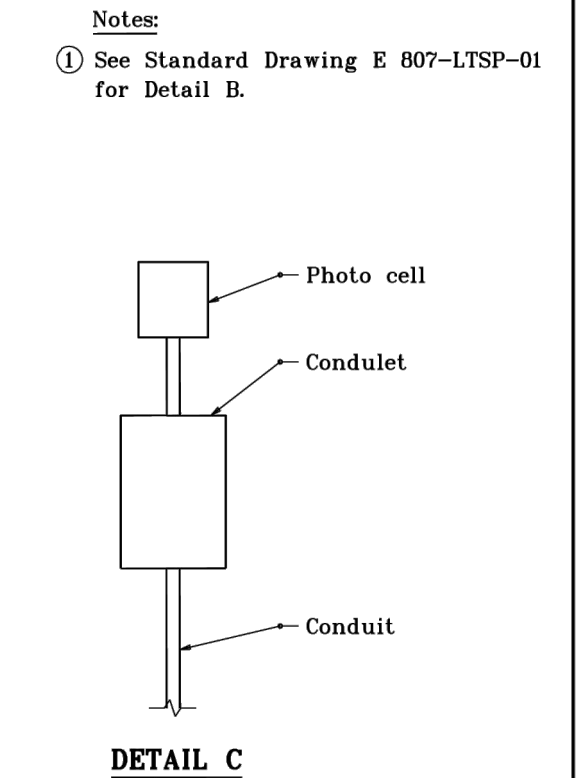
Anthony L. Uremovich 11-15-99  
 DESIGN STANDARD ENGINEER DATE

Firooz Zandi 11-15-99  
 CHECK ELECTRICAL ENGINEER DATE

ORIGINALLY APPROVED 9-0-98



SERVICE POINT  
 TYPE II



DETAIL C

INDIANA DEPARTMENT OF TRANSPORTATION  
**LIGHT SERVICE POINT DETAILS**  
 JANUARY 2000  
 STANDARD DRAWING NO. E 807-LTSP-02  
 DETAILS PLACED IN THIS FORMAT 11-15-99

No. 18095  
 STATE OF INDIANA  
 PROFESSIONAL ENGINEER

Anthony L. Uremovich 1-03-00  
 DESIGN STANDARD ENGINEER DATE

Firooz Zandi 1-03-00  
 CHECK ELECTRICAL ENGINEER DATE

Plot Saved By: penderw Printed: 8/20/24  
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Certified by: ENGINEER



PUBLIC WORKS PROJECT NO. 89006007-23-034-C1  
 CENTERVILLE WELCOME CENTER  
 CENTERVILLE, INDIANA



Revisions:

Project Number: 89006007-23-034-C1  
 Requisition Number:

Account Number:

Designer: IID Drawing Date: 8/30/2024

Drafter: JRC Drawing Scale: N/A

DAPW Approval:

Client Approval:

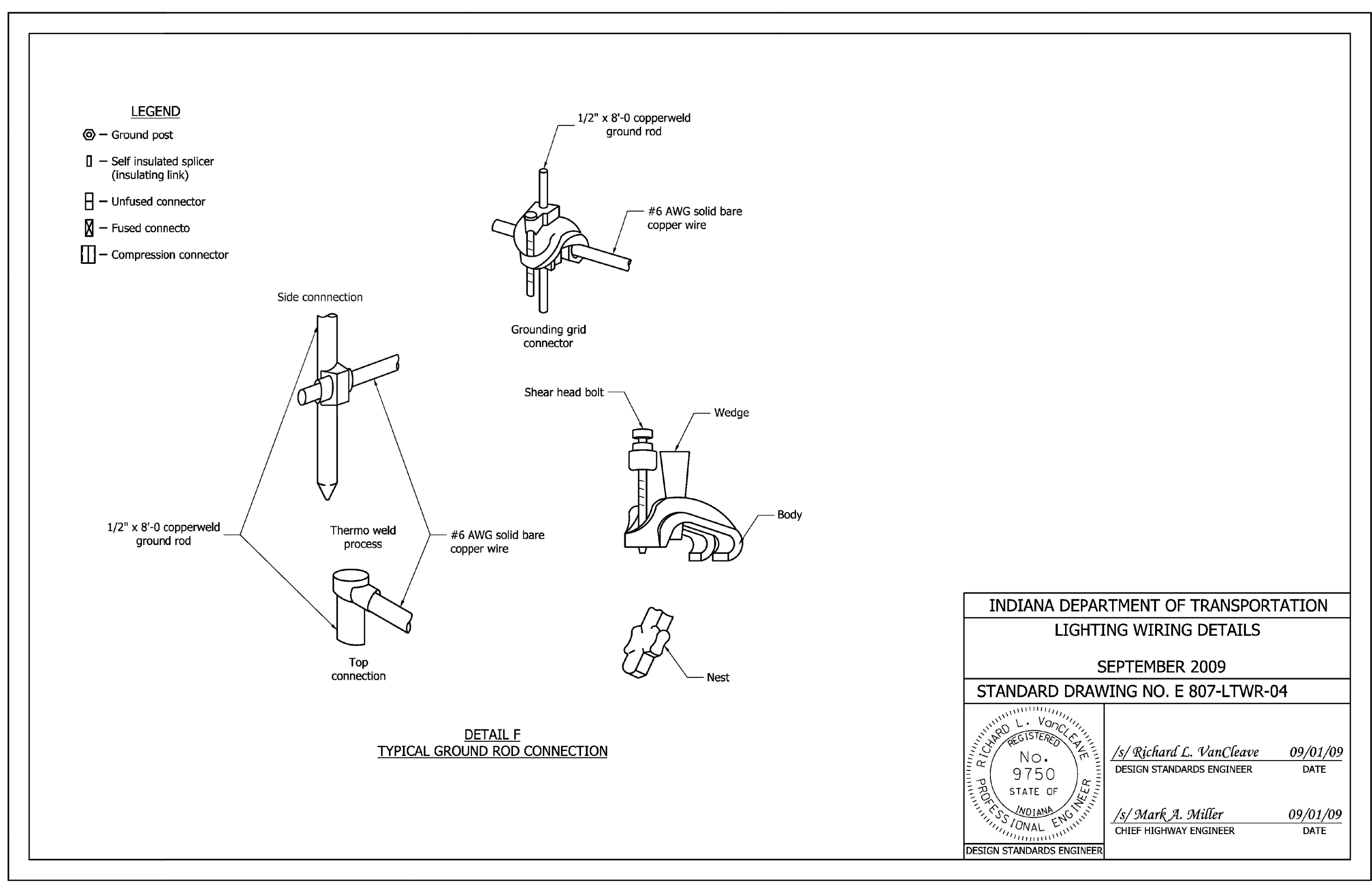
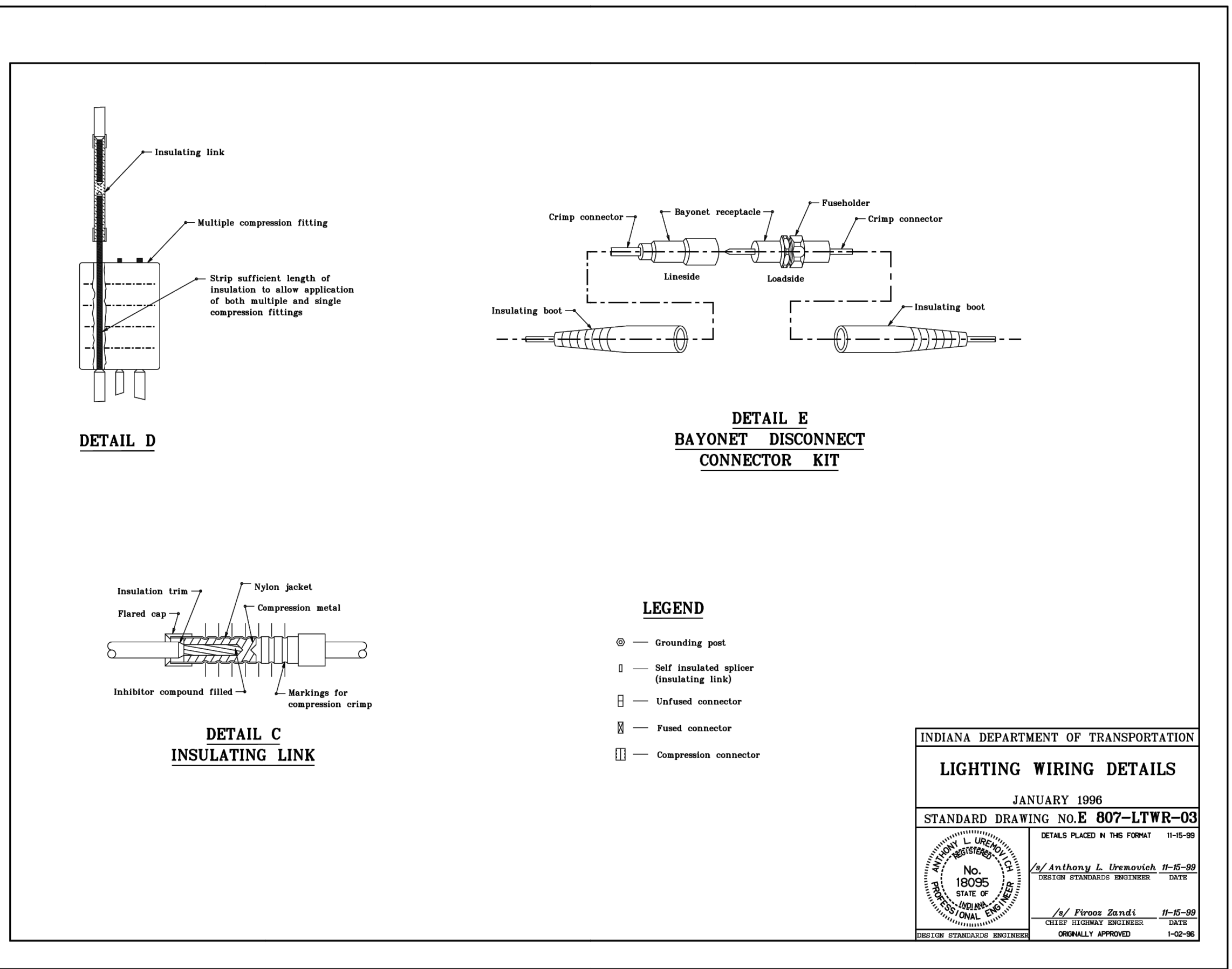
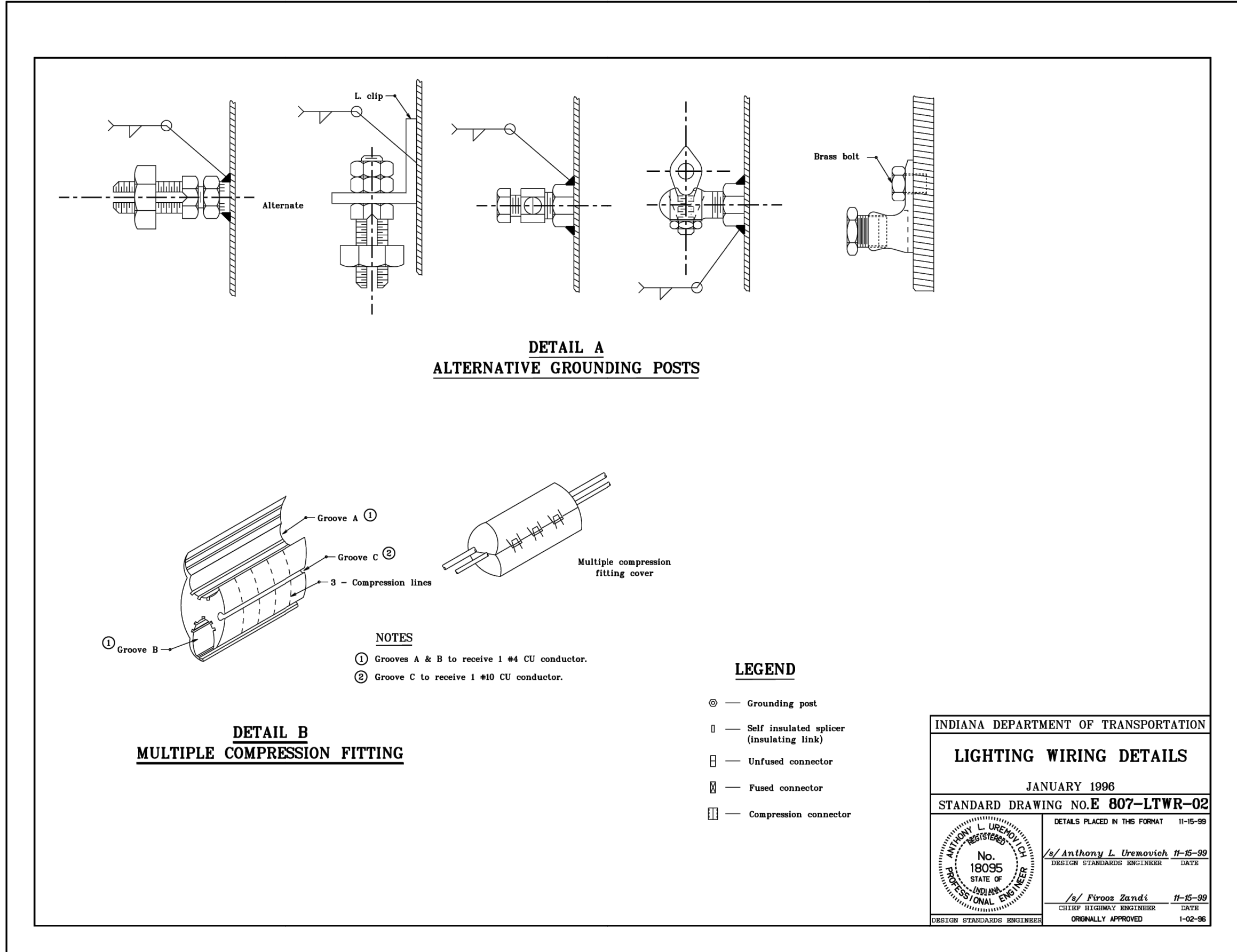
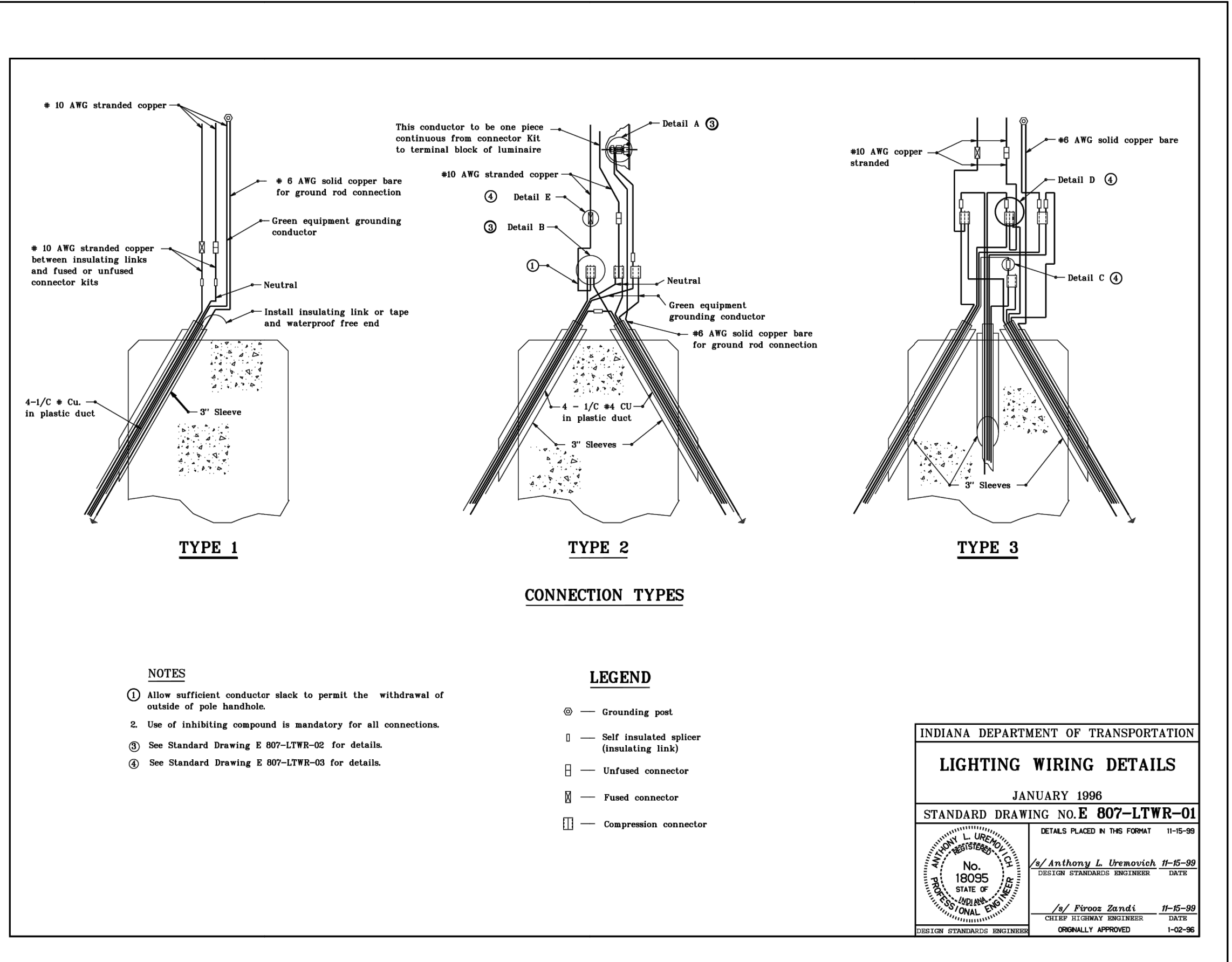
Reference Number: 1394

Building Reference:

Drawing Number: CS157

Sheet: 135 of 140





Last Saved By: pmlw@cs159.com  
 File Path: C:\Users\pmlw\Documents\CS159\CS159-000.dwg  
 Date: 2024-11-17 10:00 am

Certified by: ENGINEER

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 JANSSEN & SPAANS ENGINEERING  
 jsengr.com  
 9100 Horton Park Court - Indianapolis, IN 46216

**krM**  
 Architecture  
 1515 N. Pennsylvania St.  
 Indianapolis, Indiana

**RATIO**  
 LANDSCAPE ARCHITECTURE  
 30 W Monroe Street, Suite 500  
 Chicago, IL 60603  
 T: 312.465.2359  
 www.ratiodesign.com

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 Engineering Services

PUBLIC WORKS PROJECT NO. 89006007-23-034-C1  
 CENTERVILLE WELCOME CENTER  
 CENTERVILLE, INDIANA

**IDOA**

INDIANA DEPARTMENT OF TRANSPORTATION

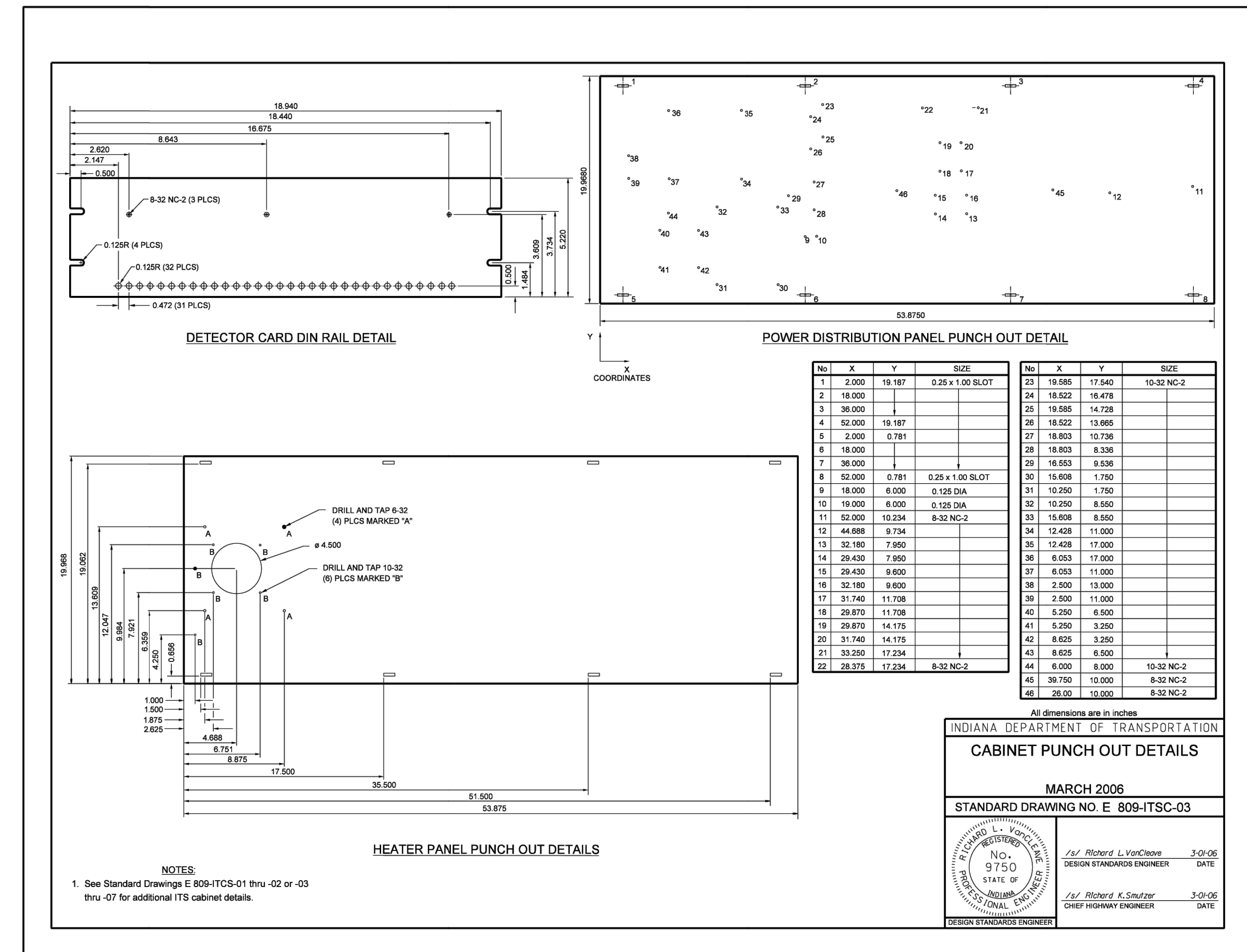
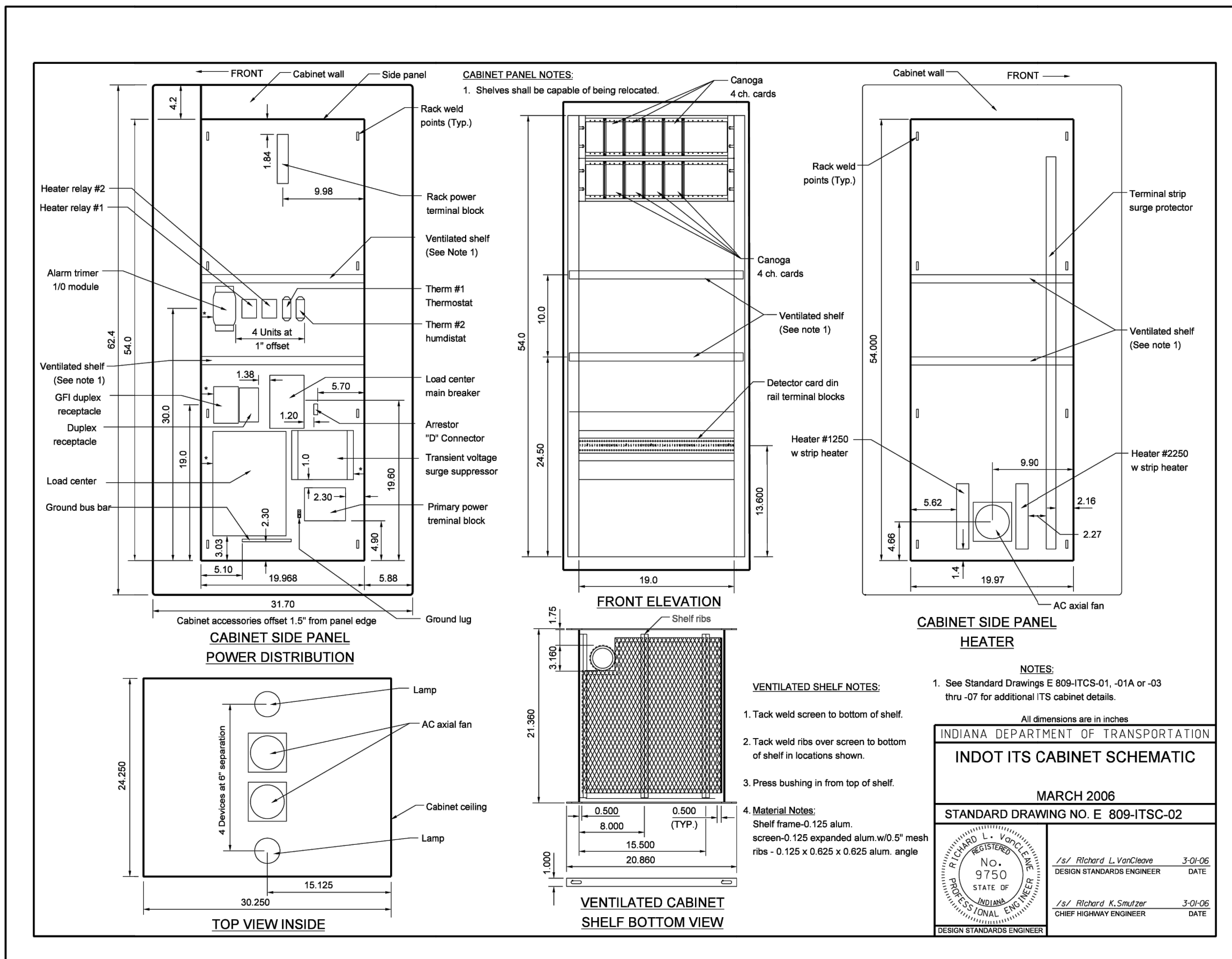
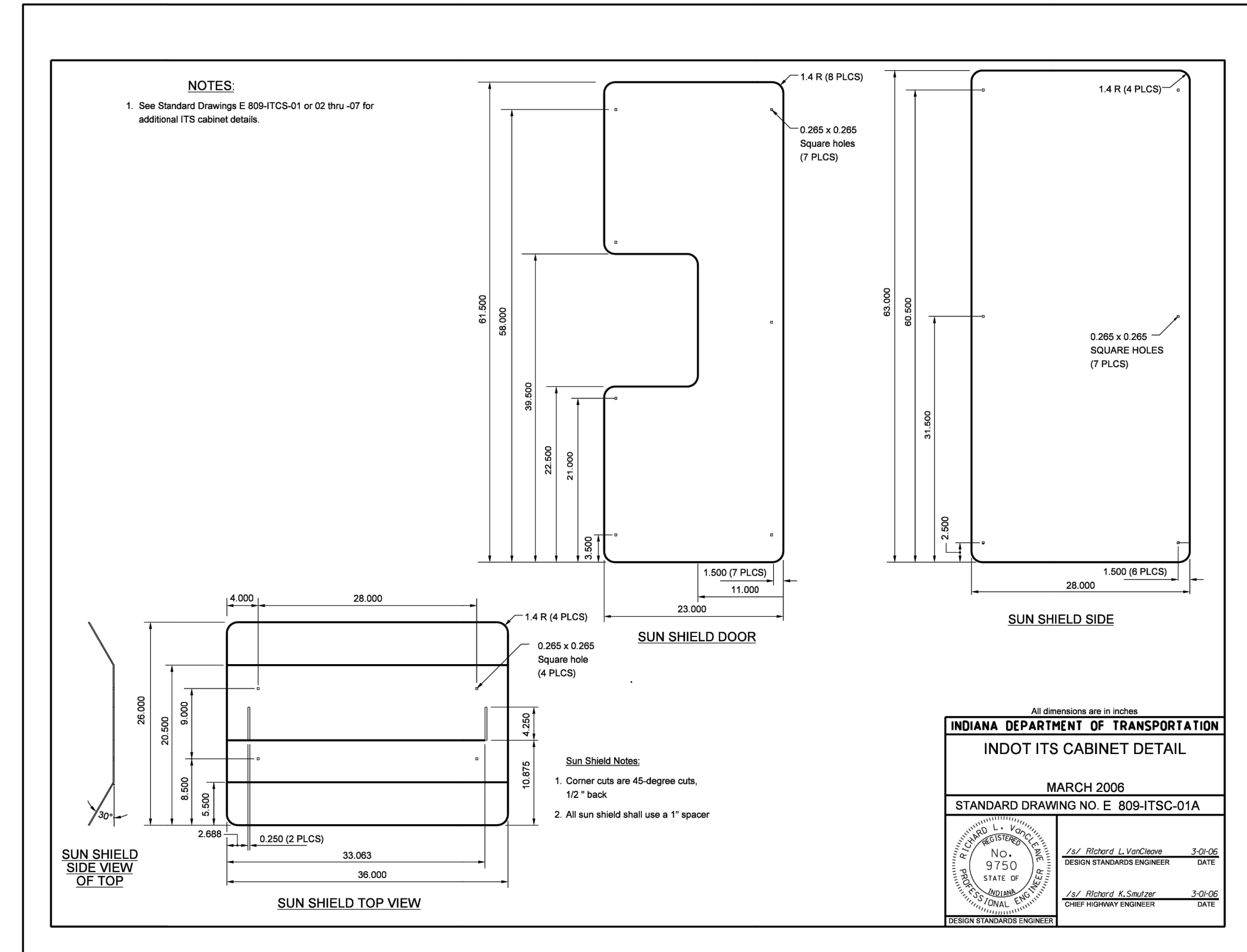
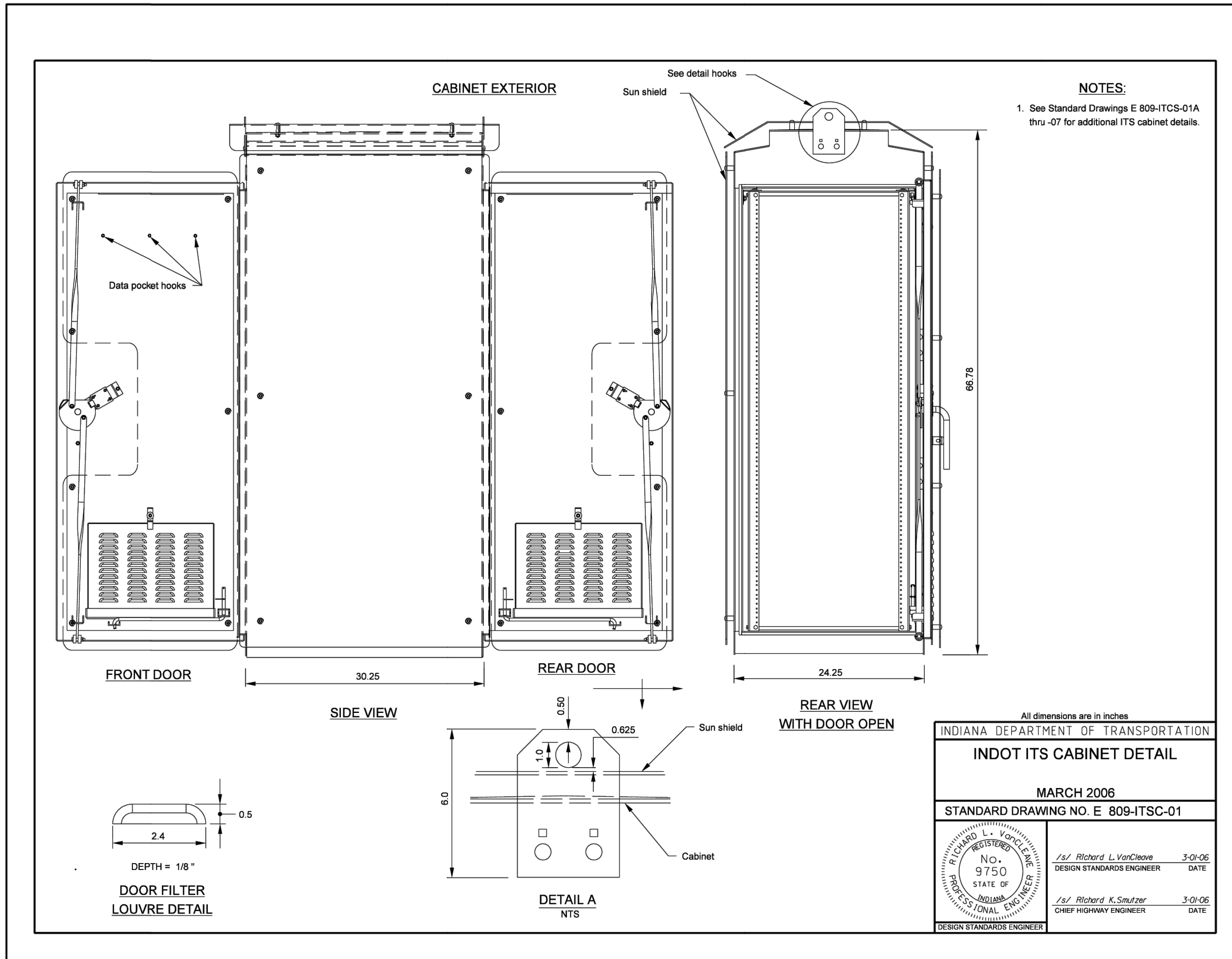
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Project Number: 89006007-23-034-C1  
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Designer: IID Drawing Date: 8/30/2024  
 Drafter: JRC Drawing Scale: N/A  
 DAPW Approval:

Client Approval:

Reference Number: 1394  
 Building Reference:  
 Drawing Number:  
 Sheet: 137 of 140



Certified by: **ENGINEER**

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JANSSEN & SPAANS ENGINEERING  
jsengr.com  
910 Horizon Park Court - Indianapolis, IN 46216

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1515 N. Pennsylvania St.  
Indianapolis, Indiana

**RATIO**  
LANDSCAPE ARCHITECTURE  
30 W Monroe Street, Suite 500  
Chicago, IL 60603  
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Engineering Services

PUBLIC WORKS PROJECT NO. 89006007-23-034-C1  
CENTERVILLE WELCOME CENTER  
CENTERVILLE, INDIANA

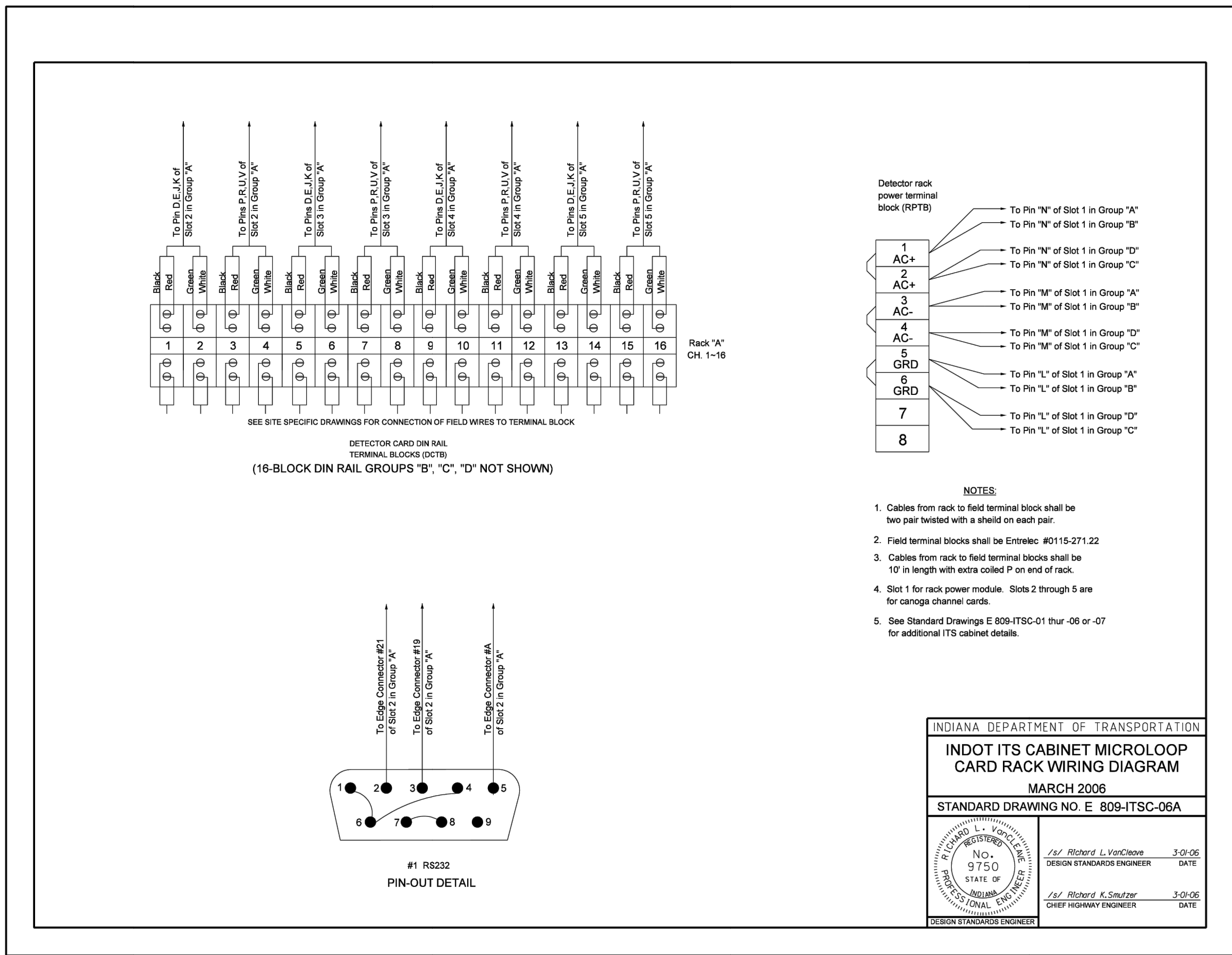
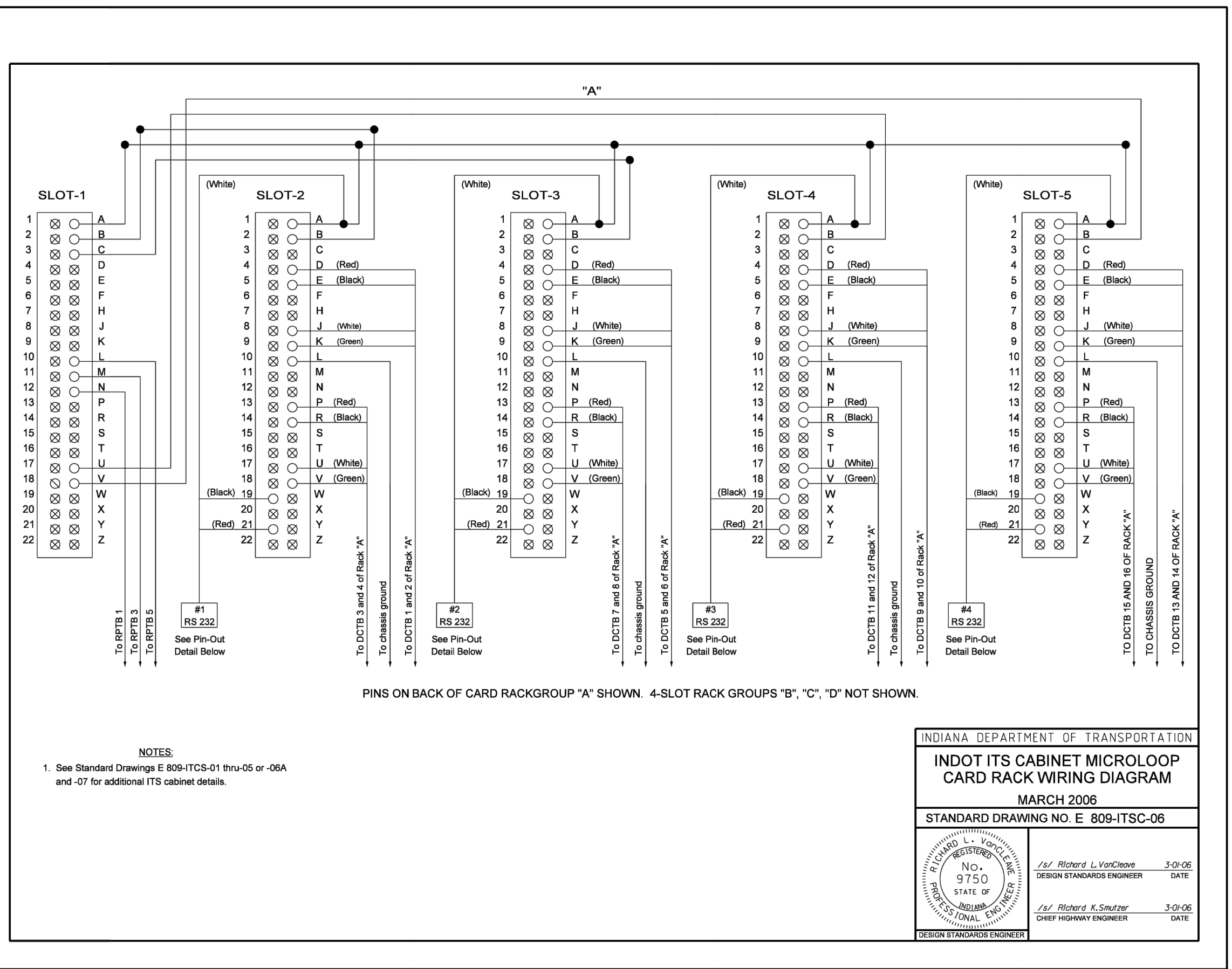
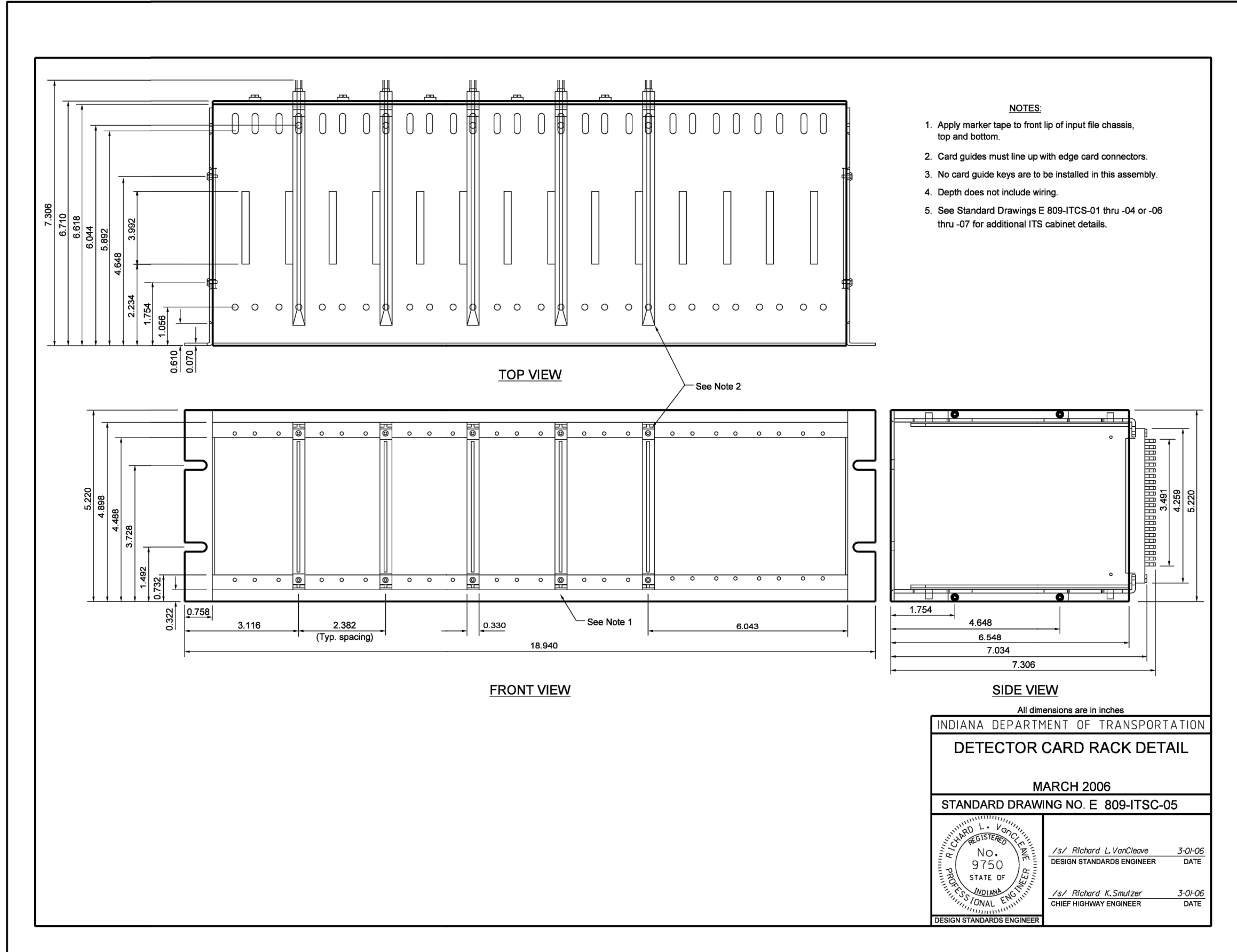
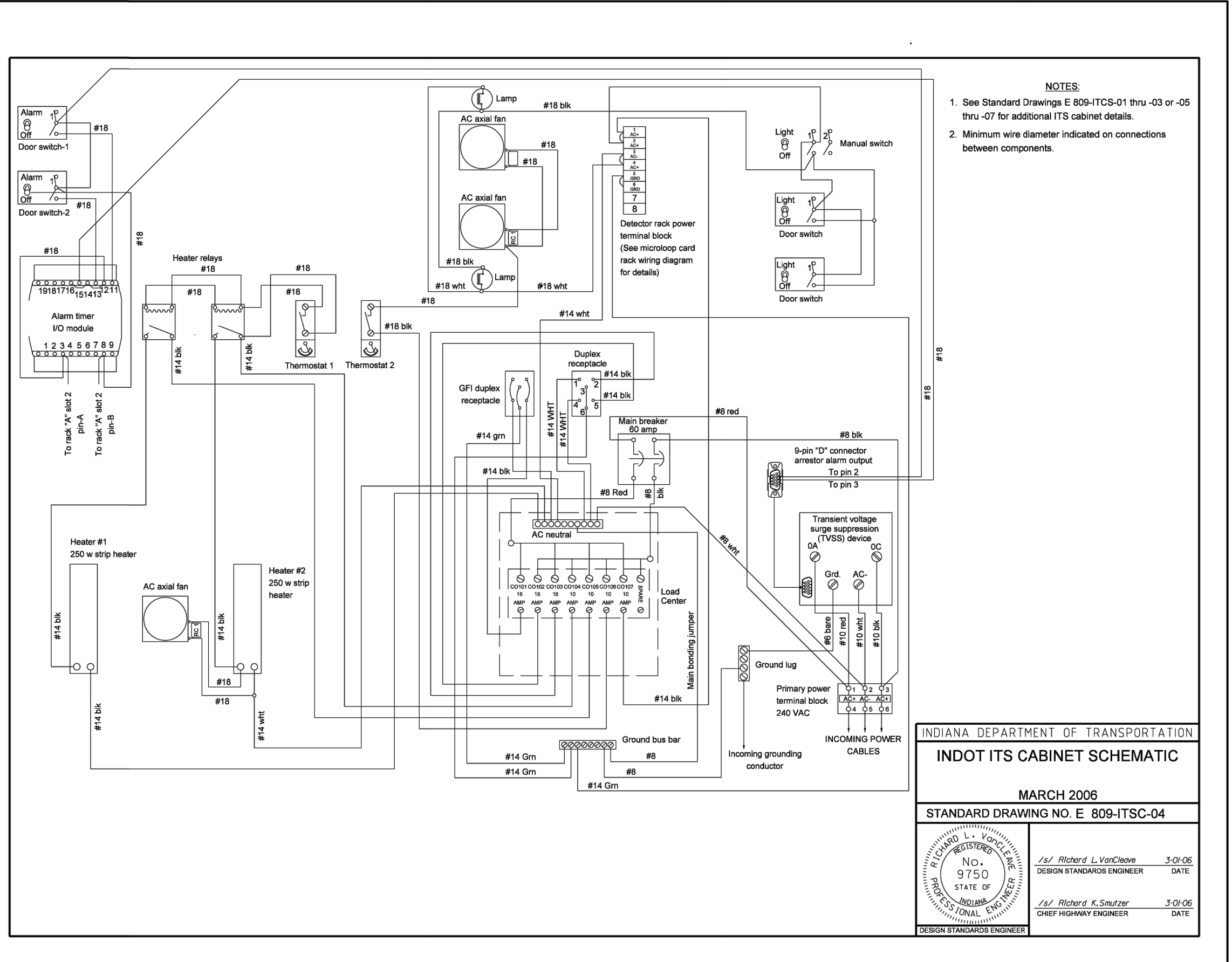
**IDOA**

**INDIANA DEPARTMENT OF TRANSPORTATION**

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Designer: IID Drawing Date: 8/30/2024  
Drawer: JRC Drawing Scale: N/A  
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Reference Number: 1394  
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Drawing Number:  
CS160  
Sheet: 138 of 140

Plot Saved By: psmith3/20/24  
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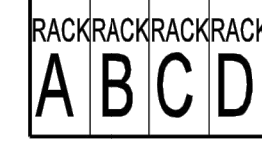
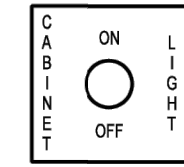


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 CENTERVILLE WELCOME CENTER  
 CENTERVILLE, INDIANA

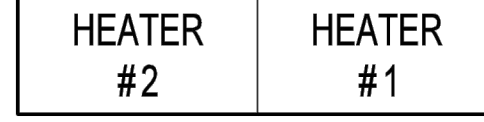
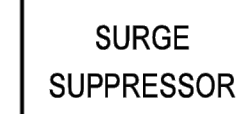
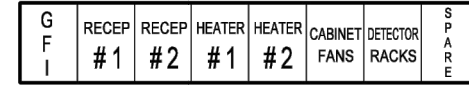
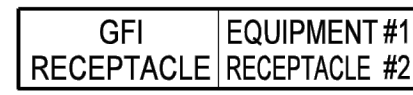


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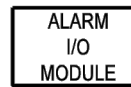
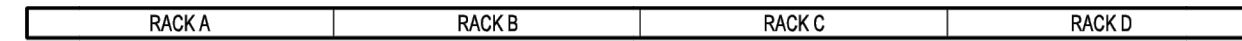
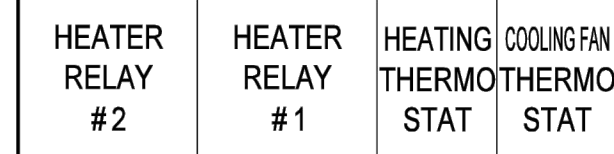
Project Number:	89006007-23-034-C1
Requestion Number:	
Account Number:	
Designer:	ID
Drawing Date:	8/30/2024
Drafter:	JRC
Drawing Scale:	N/A
DAPW Approval:	
Client Approval:	
Reference Number:	1394
Building Reference:	
Drawing Number:	CS161
Sheet:	139 of 140



Above tags are one each for a total of 4 tags.  
RACK A, RACK B, RACK C, and RACK D



HEATER 1 and HEATER 2 are 1 tag Each.



**NOTES:**

1. See Standard Drawings E 809-ITCS-01 thru -06A for additional ITS cabinet details.

INDIANA DEPARTMENT OF TRANSPORTATION	
ENGRAVED TAG DETAIL	
MARCH 2006	
STANDARD DRAWING NO. E 809-ITSC-07	
	<i>/s/ Richard L. VanCleave</i> 3/0/06 DESIGN STANDARDS ENGINEER DATE
	<i>/s/ Richard K. Smutser</i> 3/0/06 CHIEF HIGHWAY ENGINEER DATE

Last Saved By: psmith@idoha.com  
 P:\1394 - CenterVille - Welcome Center\JMS\GFA\1394-CenterVille-CSI\03-ENR\03-000.dwg Aug 20, 2024 - 11:28 am

Certified by: ENGINEER



PUBLIC WORKS PROJECT NO. 89006007-23-034-C1  
 CENTERVILLE WELCOME CENTER  
 CENTERVILLE, INDIANA



Revisions:	
Project Number:	89006007-23-034-C1
Requisition Number:	-
Account Number:	-
Designer:	Drawing Date:
IID	8/30/2024
Drafter:	Drawing Scale:
JRC	N/A
DAPW Approval:	
Client Approval:	
Reference Number:	1394
Building Reference:	-
Drawing Number:	CS162
Sheet:	140 of 140