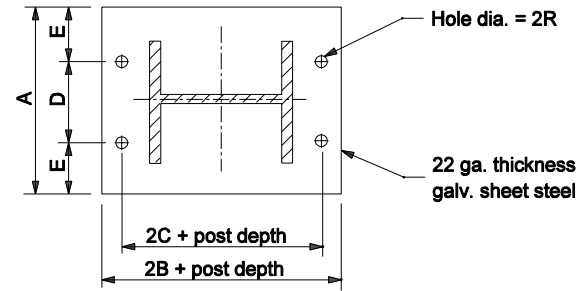
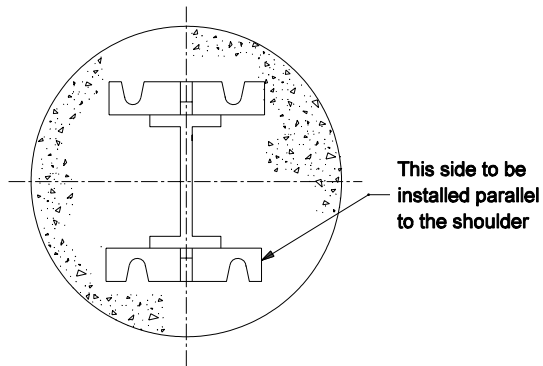


SIGN PLACEMENT
Double Support Sign (Large)

- NOTES:**
- No more than one W10 x 19 or larger post can be used in a 7 ft. path. No more than two W8 x 18 or smaller posts can be used in a 7 ft. path.
 - For 3 post installation, the edge of sign to post is 1/6 width of sign and 1/3 width of sign between posts.
 - See E 802-SNGP-04 for base plate details.

INDIANA DEPARTMENT OF TRANSPORTATION	
SIGN PLACEMENT	
MARCH 2004	
STANDARD DRAWING NO. E 802-SNGP-01	
	/s/ Richard L. VanCleave 3-01-04 DESIGN STANDARDS ENGINEER DATE
	/s/ Richard K. Smutzer 3-01-04 CHIEF HIGHWAY ENGINEER DATE
DESIGN STANDARDS ENGINEER	



KEEPER PLATE

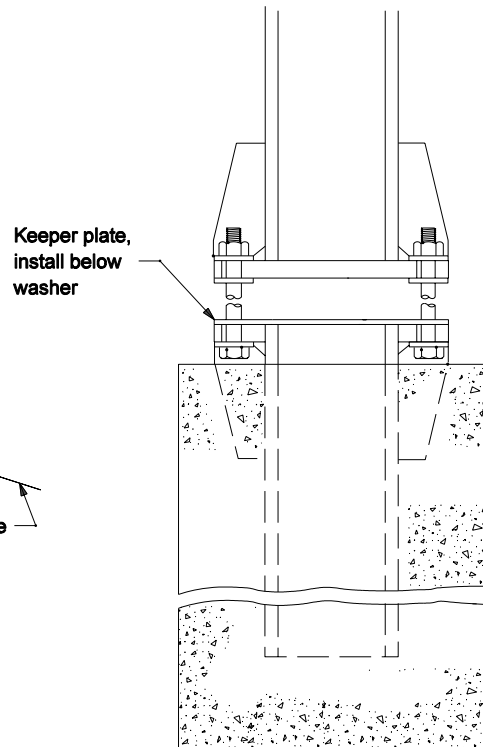
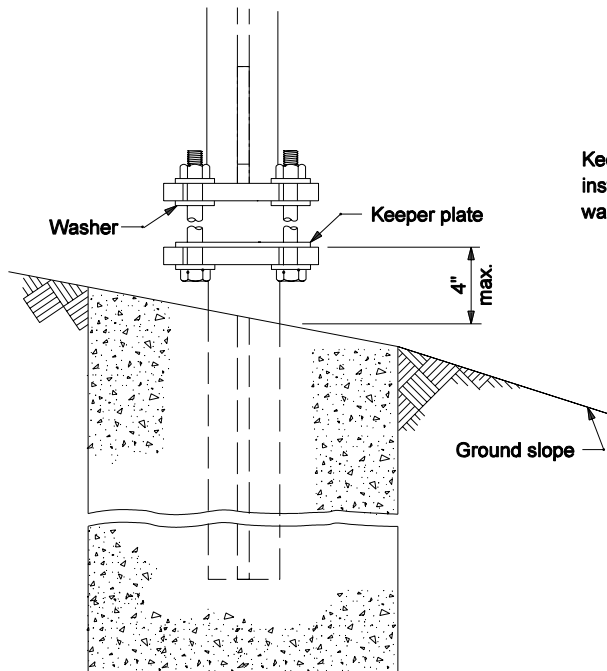
PROCEDURE FOR ASSEMBLY OF BASE CONNECTION:

Assemble post to stub with bolts. 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.

Tighten all bolts the maximum possible with 12" to 25" wrench to bed washers and shims and to clean bolt threads, then loosen each bolt in turn and retighten bolts in a systematic order to the prescribed torque. See table on Standard Drawing E 802-SNGP-05 for dimensions.

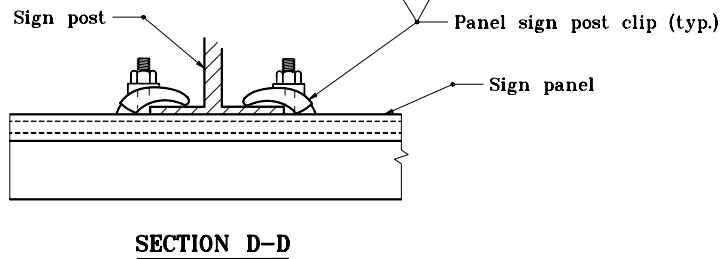
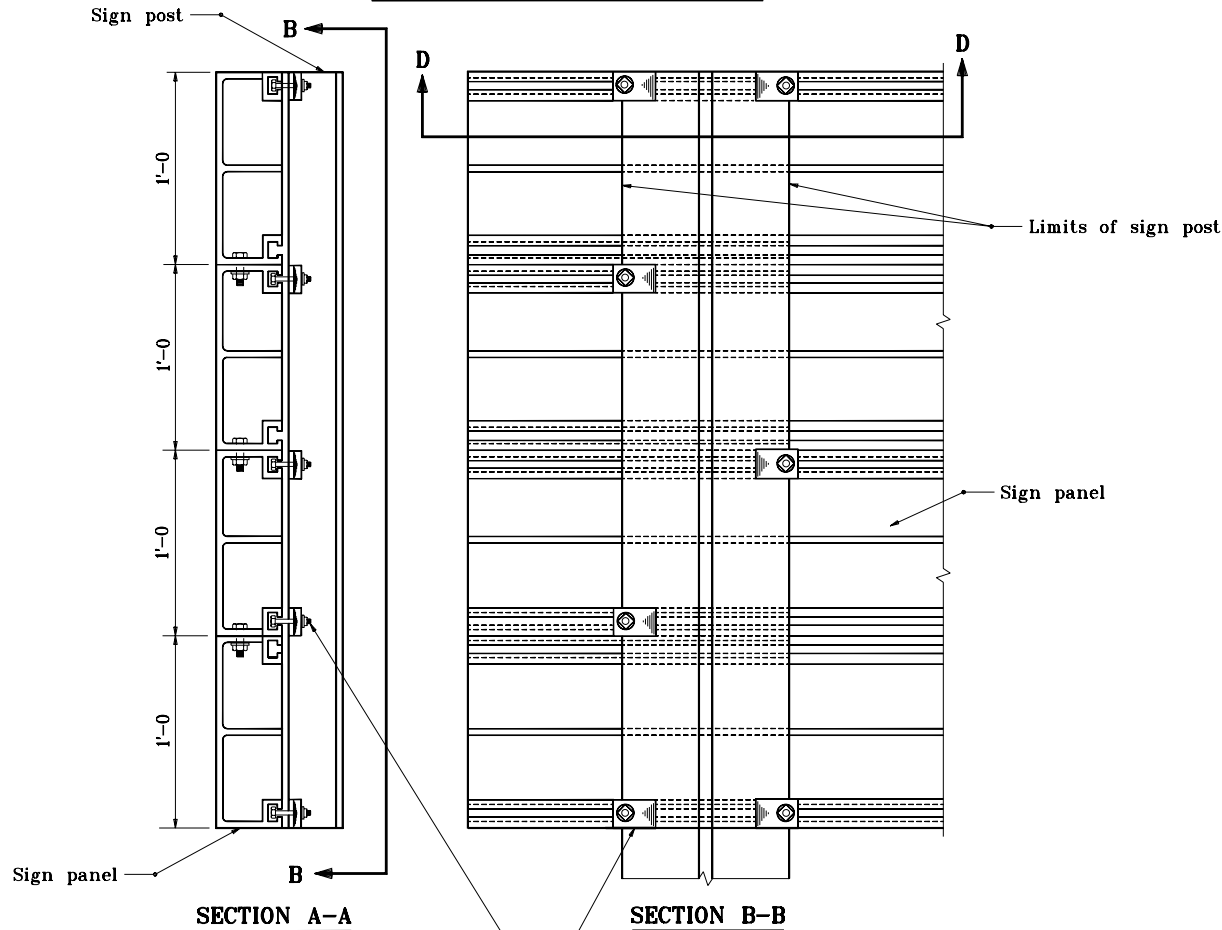
Burr threads at junction with nuts using a center punch to prevent nut loosening.

Stubs shall be plumb and base plate shall be leveled and physically held level until the concrete sets.



INDIANA DEPARTMENT OF TRANSPORTATION	
WIDE FLANGE SIGN SUPPORT BASE	
March 2004	
STANDARD DRAWING NO. E 802-SNGP-02	
	/s/ Richard L. VanCleave 3-01-04 DESIGN STANDARDS ENGINEER DATE
	/s/ Richard K. Smutzer 3-01-04 CHIEF HIGHWAY ENGINEER DATE
DESIGN STANDARDS ENGINEER	

SIGN PANEL DETAILS-ALUMINUM

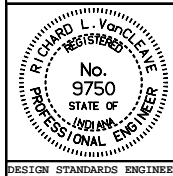


INDIANA DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

MARCH 2002

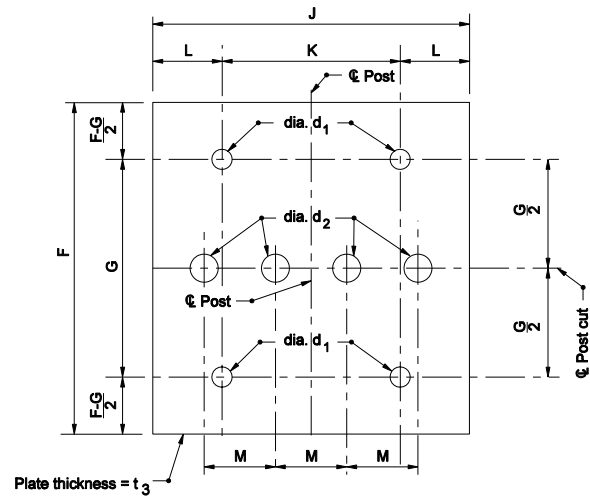
STANDARD DRAWING NO. **E 802-SNGP-03**



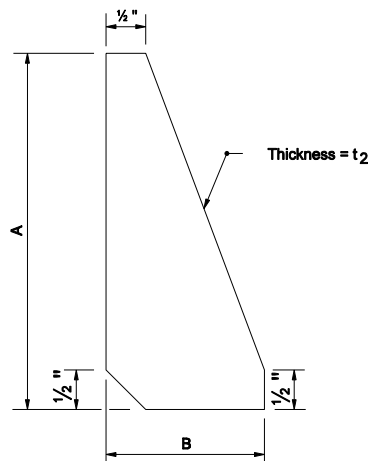
/s/ Richard L. VanCleave 3-01-02
DESIGN STANDARDS ENGINEER DATE

/s/ Richard K. Smutzer 3-01-02
CHIEF HIGHWAY ENGINEER DATE

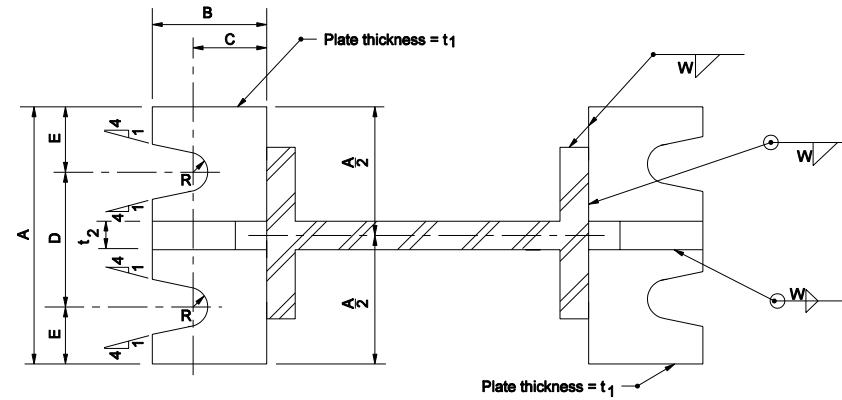
DESIGN STANDARDS ENGINEER



PERFORATED FUSE PLATE DETAIL ③

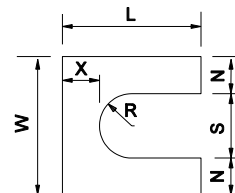


STIFFENER PLATE DETAIL



BASE PLATE DETAIL

SHIM DETAIL						
BOLT DIAMETER	L	W	N	R	S	X
1/2" to 3/4"	1 3/4"	1 3/4"	15/32"	13/32"	13/16"	15/32"
1"	2"	2"	3/8"	5/8"	1 1/4"	15/32"



Furnish 2-0.012 ± thick and 2-0.03 ± thick shims per post.

SHIM DETAIL

Notes:

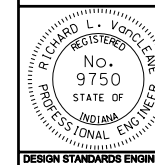
1. See table on Standard Drawing E 802-SNGP-05 for dimensions and weight of stiffener plate and base plate.
2. See table on Standard Drawing E 802-SNGP-06 for dimensions and weight of perforated fuse plate.
- ③ Use H.S. bolts with hex head, & hex nut, one flat washer under each bolt head and beveled or flat washer (where required) under nut.
4. Dimensional tolerances excluding the thickness for shims is ± 1/32".

INDIANA DEPARTMENT OF TRANSPORTATION

SIGN DETAILS

SEPTEMBER 2004

STANDARD DRAWING NO. E 802-SNGP-04



/s/ Richard L. VanCleave 9-01-04
DESIGN STANDARDS ENGINEER DATE

/s/ Richard K. Smutzer 9-01-04
CHIEF HIGHWAY ENGINEER DATE

DESIGN STANDARDS ENGINEER

BASE PLATE & STIFFENER PLATE DATA TABLE

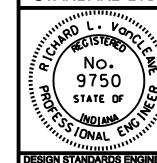
Post Size	Bolt Size	Torque in. - lb	Wt. of 4 Plates (One Post) ,lb	Wt. of 4 Stiffeners (One Post) ,lb	A	B	C	D	E	R	d4	t ₁	t ₂	W
W6 x 9	½" ø x 2¼"	140	5.10	3.33	4½"	2"	1⅜"	2½"	1"	9/23"	1⅜"	½"	½"	⅜"
W8 x 10	⅝" ø x 2½"	300	6.38	4.07	5"	2¼"	1½"	2⅞"	1¼"	11/32"	1½"	"	"	"
W8 x 13	¾" ø x 3"	500	12.6	7.97	6"	2½"	"	3⅜"	1⅞"	13/32"	1¾"	¾"	¾"	¼"
W8 x 15		"	"	"	"	"	"	"	"	"	"	"	"	"
W8 x 18		"	"	"	"	"	"	"	"	"	"	"	"	⅝"
W10 x 19	1" ø x 3.¼"	700	14.04	8.66	"	2¾"	1½"	3⅝"	1⅜"	17/32"	2¼"	¾"	¾"	⅝"

INDIANA DEPARTMENT OF TRANSPORTATION

SIGN DATA TABLES

SEPTEMBER 2002

STANDARD DRAWING NO. E 802-SNGP-05



/s/ Richard L. VanCleave 9-03-02
DESIGN STANDARDS ENGINEER DATE

/s/ Richard K. Smutzer 9-03-02
CHIEF HIGHWAY ENGINEER DATE

DESIGN STANDARDS ENGINEER

PERFORATED FUSE PLATE DATA TABLE

Post Size	BOLT SIZE	Wt. of Plate* (One Post), lb	F	G	J	K	L	M	d ₁	d ₂	t ₃	Bolt Tension, lbs
W6 x 9	1/2" x 1 1/2"	1.01	4 1/4"	2"	4"	2 1/4"	7/8"	1"	9/16"	3/4"	1/4"	12000
W8 x 10	1/2" x 1 1/2"	1.01	4 1/4"	2"	4"	2 1/4"	7/8"	1"	9/16"	3/4"	1/4"	12000
W8 x 13	1/2" x 1 1/2"	1.01	4 1/4"	2"	4"	2 1/4"	7/8"	1"	9/16"	3/4"	1/4"	12000
W8 x 15	5/8" x 2 1/4"	1.72	5"	2 1/2"	4"	2 1/4"	7/8"	1"	11/16"	3/4"	3/8"	19000
W8 x 18	5/8" x 2 1/4"	2.27	5"	2 1/2"	5 1/4"	2 3/4"	1 1/4"	1 1/4"	11/16"	1 1/16"	3/8"	19000
W10 x 19	5/8" x 2 1/4"	1.72	5"	2 1/2"	4"	2 1/4"	7/8"	1"	11/16"	3/4"	3/8"	19000

* Gross weight with holes deducted from weight. Incidental weights of bolts and washers are not included in plan quantities.

NOTES:

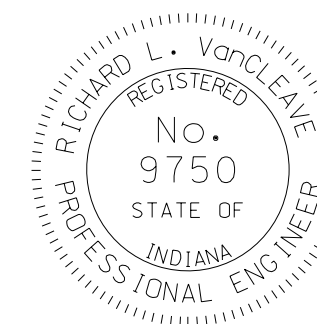
- See Standard Drawing E 802-SNGP-01 through 07 for details and notes for posts, bolts, washers, etc.

INDIANA DEPARTMENT OF TRANSPORTATION

SIGN DATA TABLES

SEPTEMBER 2008

STANDARD DRAWING NO. E 802- SNGP-06




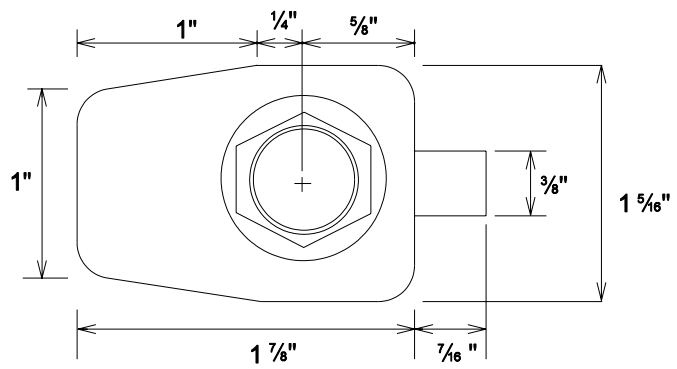
DESIGN STANDARDS ENGINEER

/s/ Richard L. VanCleave 09/02/08
DESIGN STANDARDS ENGINEER DATE

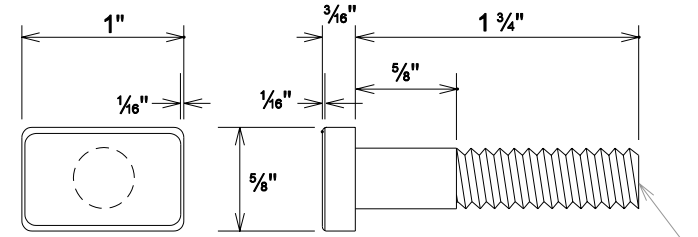
/s/ Mark A. Miller 09/02/08
CHIEF HIGHWAY ENGINEER DATE

FOUNDATION DATA				
Type	Post Size	Stub Length	Dia.	Depth
VII	W6 x 9	2'-0	20"	5'
VIII	W8 x 10	2'-0	20"	5'
IX	W8 x 13	2'-0	20"	5'
X	W8 x 15	2'-6	24"	6'
XI	W8 x 18	2'-6	24"	6'
XII	W10 x 19	2'-6	24"	7'

INDIANA DEPARTMENT OF TRANSPORTATION	
WIDE FLANGE SIGN POST SUPPORT FOUNDATION DATA	
MARCH 2004	
STANDARD DRAWING NO. E 802-SNGP-07	
	<i>/s/ Richard L. VanCleave</i> 3-01-04 DESIGN STANDARDS ENGINEER DATE
DESIGN STANDARDS ENGINEER	<i>/s/ Richard K. Smutzer</i> 3-01-04 CHIEF HIGHWAY ENGINEER DATE

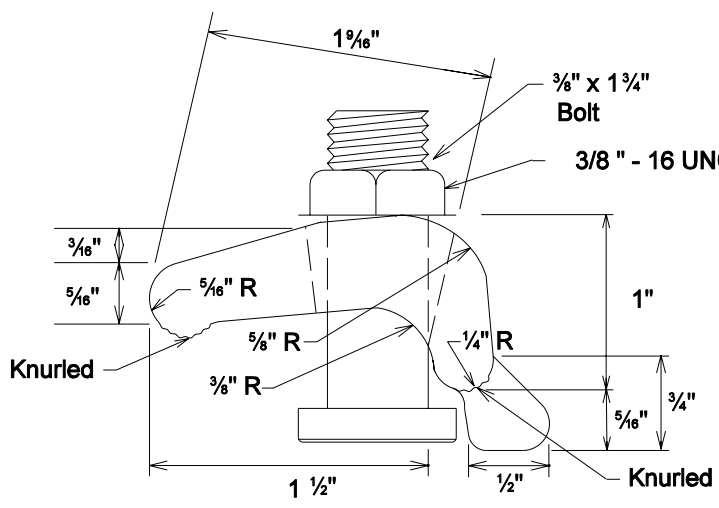


PLAN VIEW



3/8"-16 UNC-2A Thread

SIDE VIEW



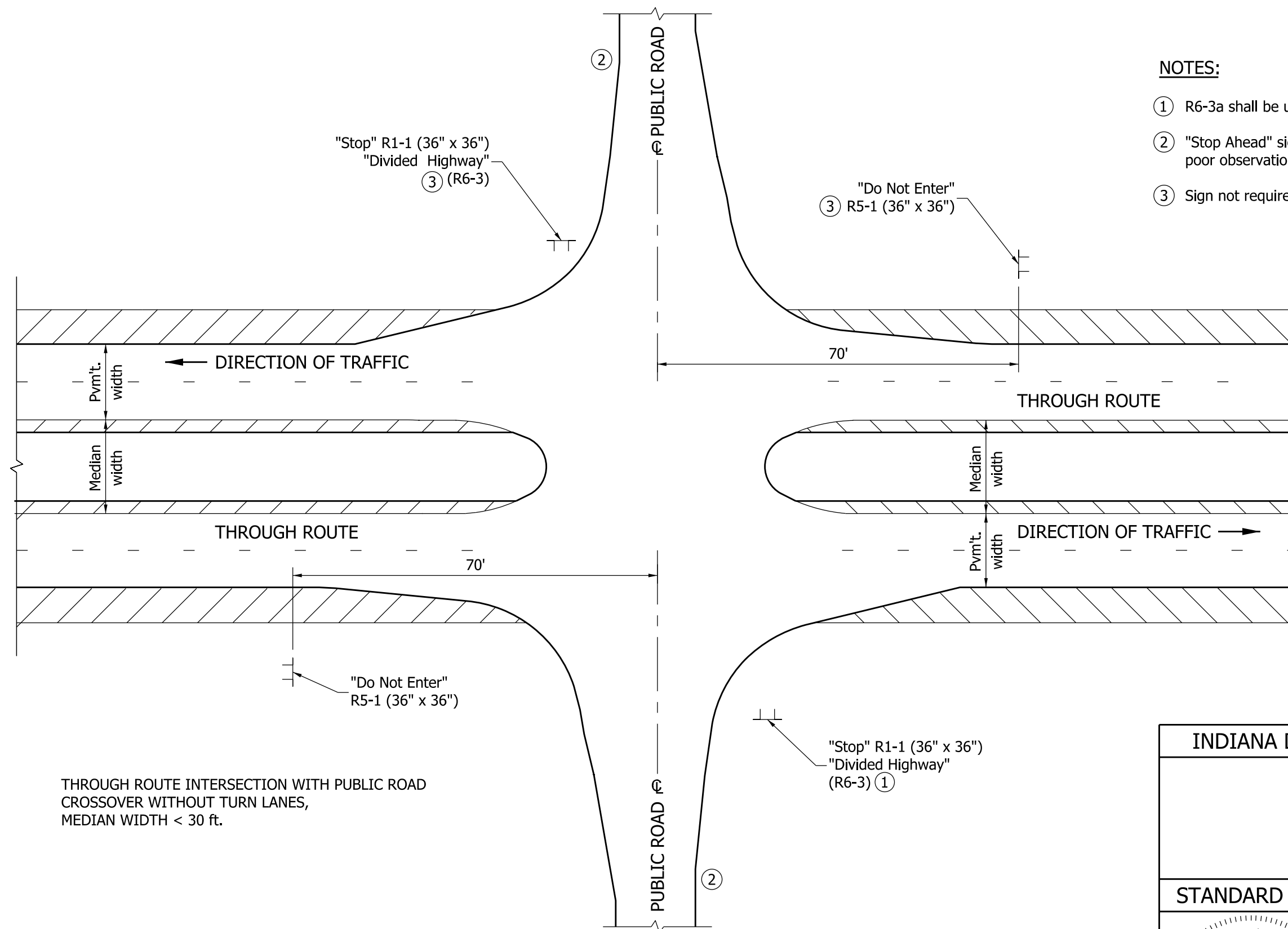
ELEVATION VIEW



3/8 " - 16 UNC - 2A hex lock nut TOP VIEW

POST CLIP BOLT

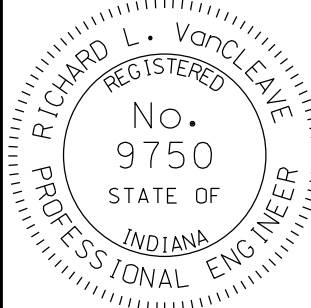
INDIANA DEPARTMENT OF TRANSPORTATION	
Panel Sign Post Clip	
SEPTEMBER 2004	
STANDARD DRAWING NO. E 802-SNGP-10A	
	<i>/s/ Richard L. VanCleave</i> 9-01-04 DESIGN STANDARDS ENGINEER DATE
	<i>/s/ Richard K. Smutzer</i> 9-01-04 CHIEF HIGHWAY ENGINEER DATE
DESIGN STANDARDS ENGINEER	



NOTES:

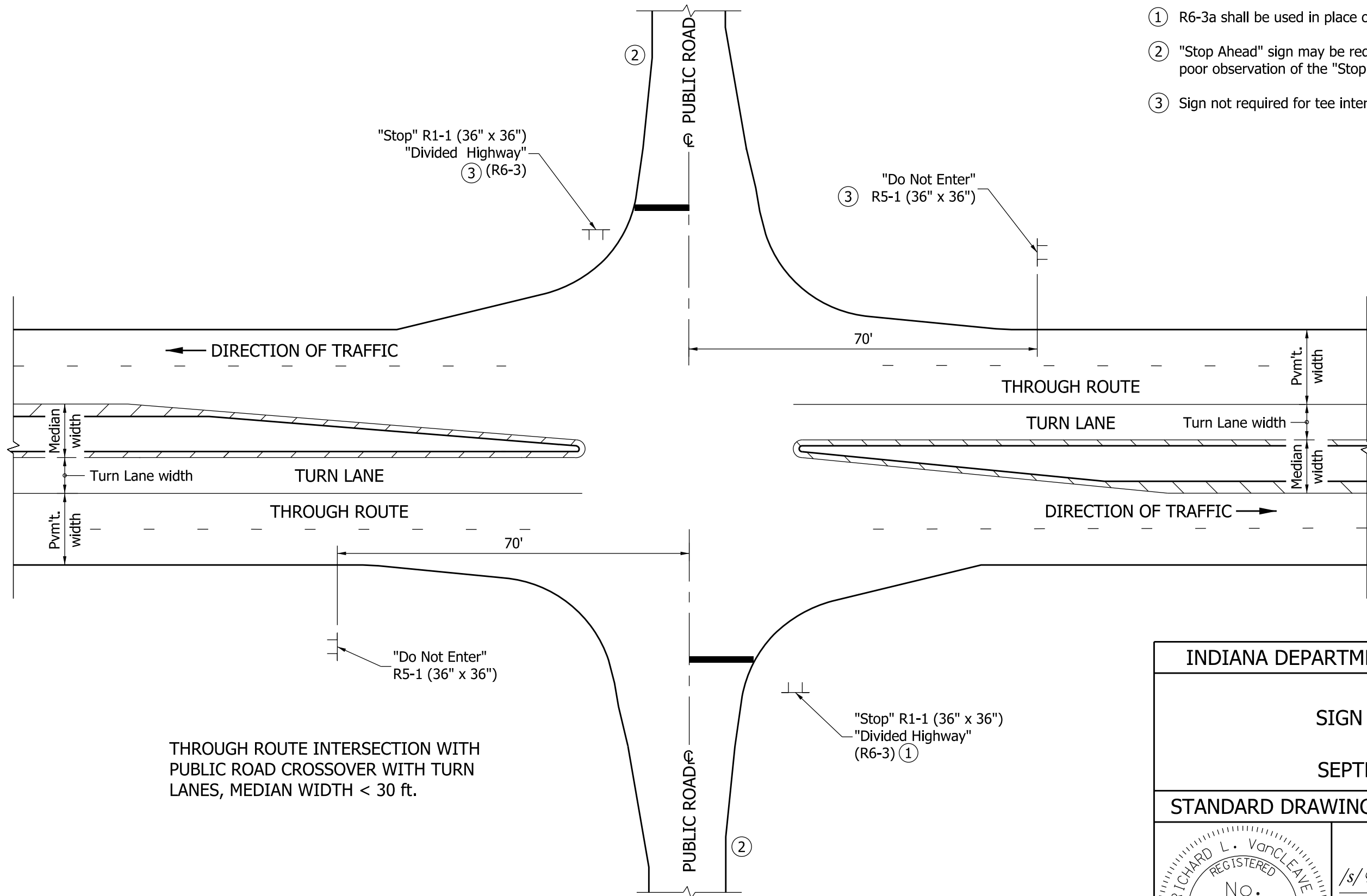
- ① R6-3a shall be used in place of R6-3 at tee intersection.
- ② "Stop Ahead" sign may be required if there is determined to be poor observation of the "Stop" sign. See plans for locations.
- ③ Sign not required for tee intersection.

THROUGH ROUTE INTERSECTION WITH PUBLIC ROAD
CROSSOVER WITHOUT TURN LANES,
MEDIAN WIDTH < 30 ft.


INDIANA DEPARTMENT OF TRANSPORTATION									
SIGN PLACEMENT									
SEPTEMBER 2010									
STANDARD DRAWING NO.	E 802-SNGP-11								
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border-bottom: 1px solid black; padding: 2px 5px;"><i>/s/ Richard L. VanCleave</i></td> <td style="border-bottom: 1px solid black; padding: 2px 5px; text-align: right;">09/01/10</td> </tr> <tr> <td style="padding: 2px 5px;">DESIGN STANDARDS ENGINEER</td> <td style="padding: 2px 5px; text-align: right;">DATE</td> </tr> <tr> <td style="border-bottom: 1px solid black; padding: 2px 5px;"><i>/s/ Mark A. Miller</i></td> <td style="border-bottom: 1px solid black; padding: 2px 5px; text-align: right;">09/01/10</td> </tr> <tr> <td style="padding: 2px 5px;">CHIEF HIGHWAY ENGINEER</td> <td style="padding: 2px 5px; text-align: right;">DATE</td> </tr> </table>	<i>/s/ Richard L. VanCleave</i>	09/01/10	DESIGN STANDARDS ENGINEER	DATE	<i>/s/ Mark A. Miller</i>	09/01/10	CHIEF HIGHWAY ENGINEER	DATE
<i>/s/ Richard L. VanCleave</i>	09/01/10								
DESIGN STANDARDS ENGINEER	DATE								
<i>/s/ Mark A. Miller</i>	09/01/10								
CHIEF HIGHWAY ENGINEER	DATE								
DESIGN STANDARDS ENGINEER									

NOTES:

- ① R6-3a shall be used in place of R6-3 at tee intersection.
- ② "Stop Ahead" sign may be required if there is determined to be poor observation of the "Stop" sign. See plans for locations.
- ③ Sign not required for tee intersection.

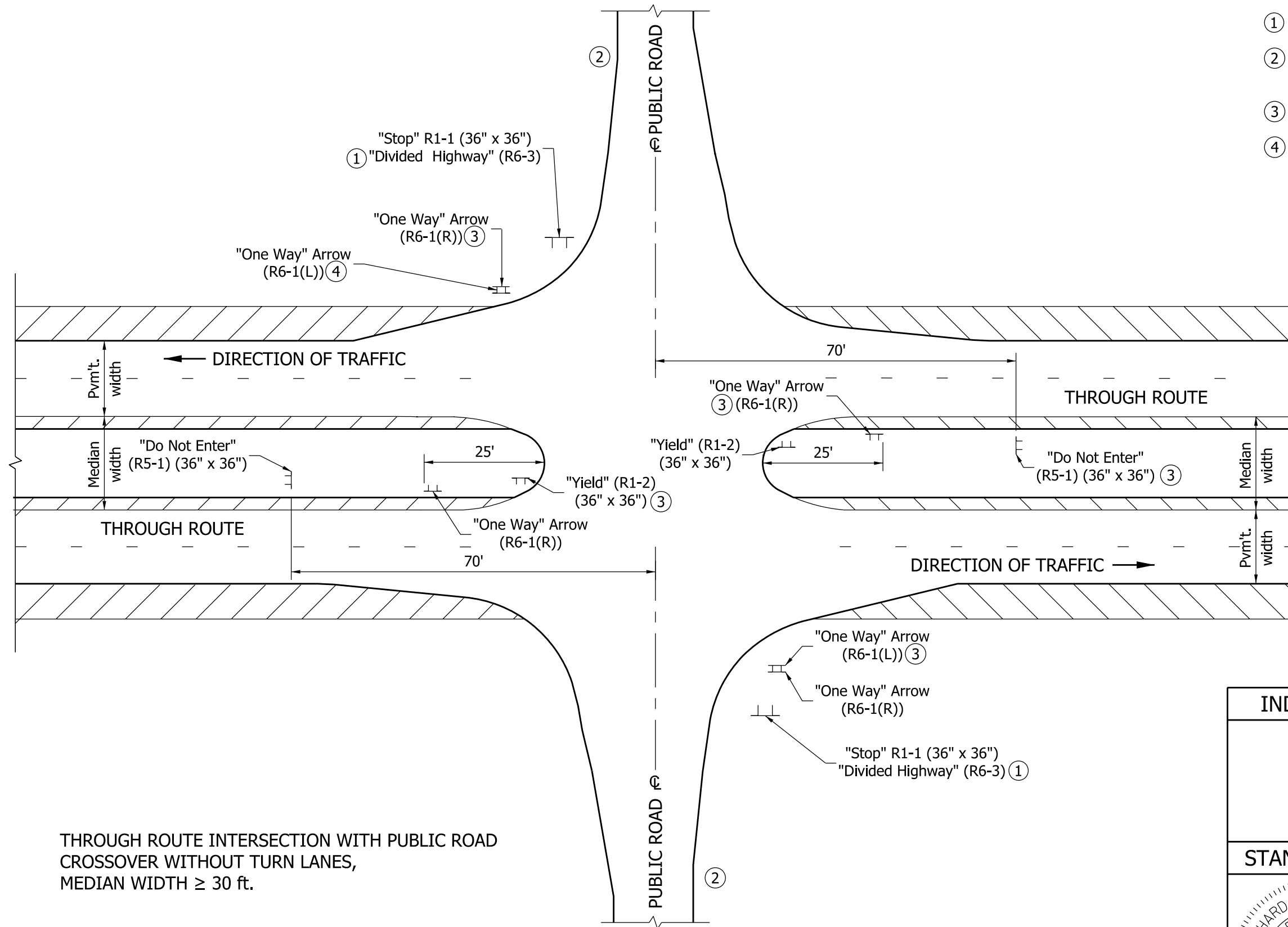


THROUGH ROUTE INTERSECTION WITH PUBLIC ROAD CROSSOVER WITH TURN LANES, MEDIAN WIDTH < 30 ft.

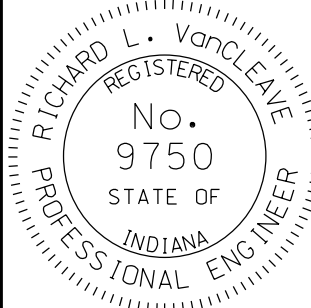
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SIGN PLACEMENT									
SEPTEMBER 2010									
STANDARD DRAWING NO.	E 802-SNGP-12								
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/s/ <i>Richard L. VanCleave</i>	09/01/10								
DESIGN STANDARDS ENGINEER	DATE								
/s/ <i>Mark A. Miller</i>	09/01/10								
CHIEF HIGHWAY ENGINEER	DATE								
DESIGN STANDARDS ENGINEER									

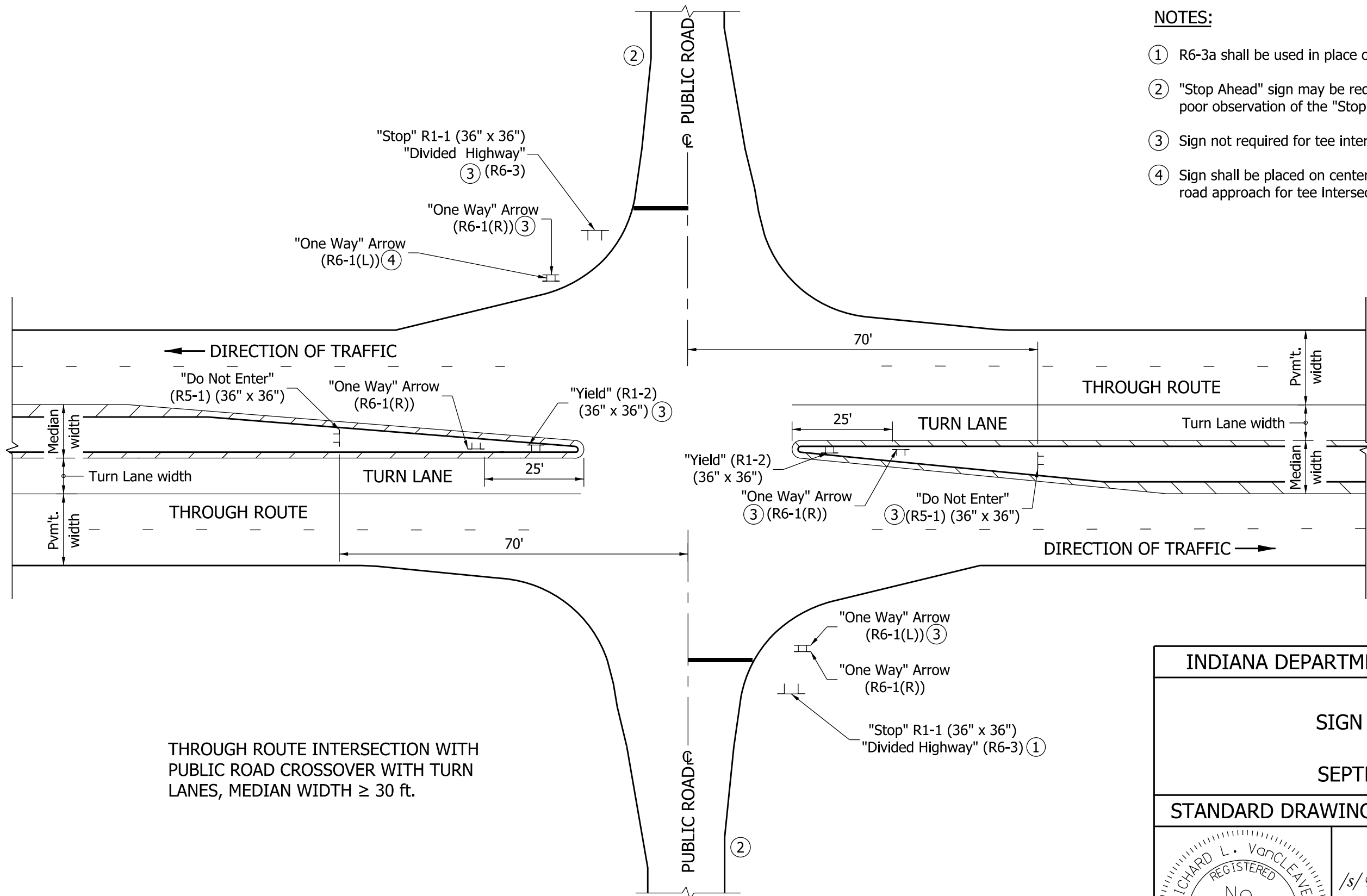
NOTES:

- ① R6-3a shall be used in place of R6-3 at tee intersection.
- ② "Stop Ahead" sign may be required if there is determined to be poor observation of the "Stop" sign. See plans for locations.
- ③ Sign not required for tee intersection.
- ④ Sign shall be placed on centerline of public road approach for tee intersection.



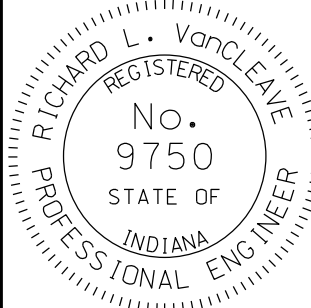
THROUGH ROUTE INTERSECTION WITH PUBLIC ROAD
CROSSOVER WITHOUT TURN LANES,
MEDIAN WIDTH ≥ 30 ft.

INDIANA DEPARTMENT OF TRANSPORTATION									
SIGN PLACEMENT									
SEPTEMBER 2010									
STANDARD DRAWING NO.	E 802-SNGP-13								
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/s/ <i>Richard L. VanCleave</i>	09/01/10								
DESIGN STANDARDS ENGINEER	DATE								
/s/ <i>Mark A. Miller</i>	09/01/10								
CHIEF HIGHWAY ENGINEER	DATE								
DESIGN STANDARDS ENGINEER									



NOTES:

- ① R6-3a shall be used in place of R6-3 at tee intersection.
- ② "Stop Ahead" sign may be required if there is determined to be poor observation of the "Stop" sign. See plans for locations.
- ③ Sign not required for tee intersection.
- ④ Sign shall be placed on centerline of public road approach for tee intersection.

INDIANA DEPARTMENT OF TRANSPORTATION									
SIGN PLACEMENT									
SEPTEMBER 2010									
STANDARD DRAWING NO.	E 802-SNGP-14								
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; border-bottom: 1px solid black;">/s/ <i>Richard L. VanCleave</i></td> <td style="width: 20%; border-bottom: 1px solid black;">09/01/10</td> </tr> <tr> <td>DESIGN STANDARDS ENGINEER</td> <td>DATE</td> </tr> <tr> <td style="border-bottom: 1px solid black;">/s/ <i>Mark A. Miller</i></td> <td style="border-bottom: 1px solid black;">09/01/10</td> </tr> <tr> <td>CHIEF HIGHWAY ENGINEER</td> <td>DATE</td> </tr> </table>	/s/ <i>Richard L. VanCleave</i>	09/01/10	DESIGN STANDARDS ENGINEER	DATE	/s/ <i>Mark A. Miller</i>	09/01/10	CHIEF HIGHWAY ENGINEER	DATE
/s/ <i>Richard L. VanCleave</i>	09/01/10								
DESIGN STANDARDS ENGINEER	DATE								
/s/ <i>Mark A. Miller</i>	09/01/10								
CHIEF HIGHWAY ENGINEER	DATE								
DESIGN STANDARDS ENGINEER									