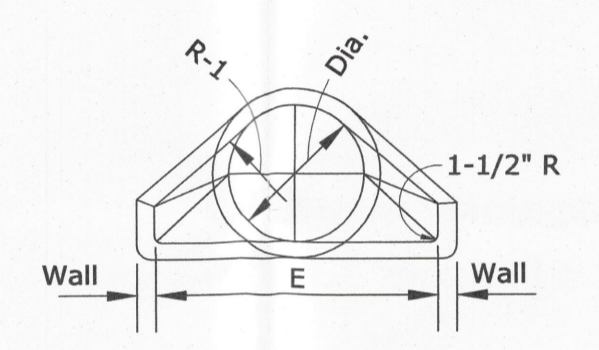
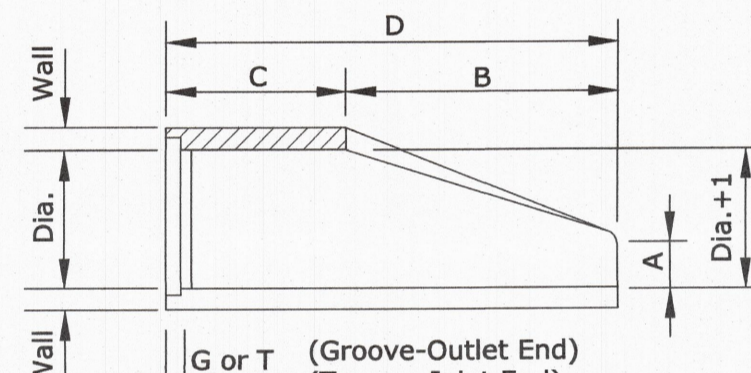
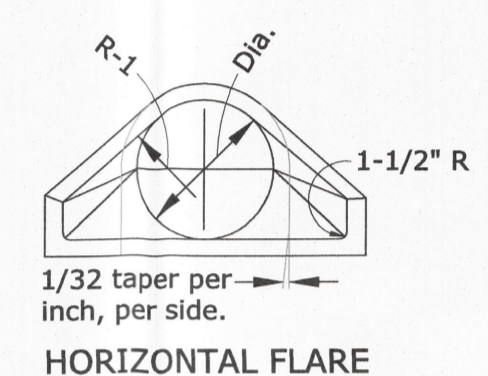
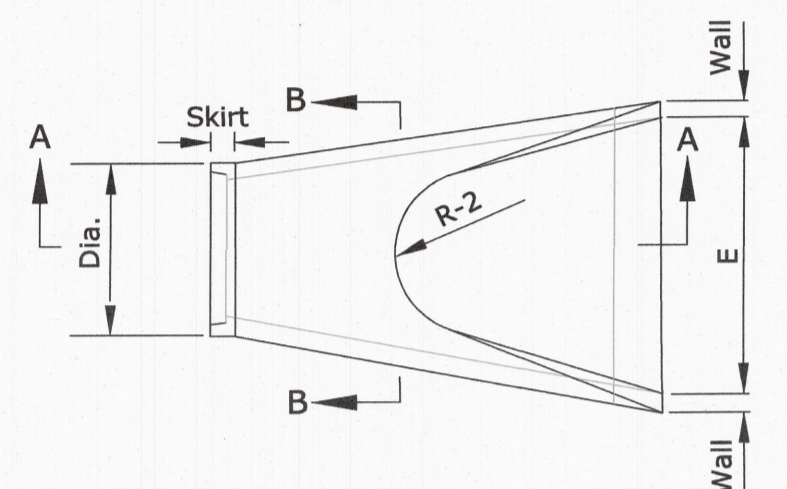


TRENCH WIDTH TABLE

PIPE Ø	MIN WIDTH
12"	2'-6"
15"	2'-9"
18"	3'-0"
24"	3'-6"
30"	4'-1 1/2"
36"	4'-9"
42"	5'-4 1/2"

Notes:
1. New street surface shall comply with local authority jurisdiction.

REINFORCED CONCRETE PIPE BEDDING
Scale: N.T.S.



SECTION A-A

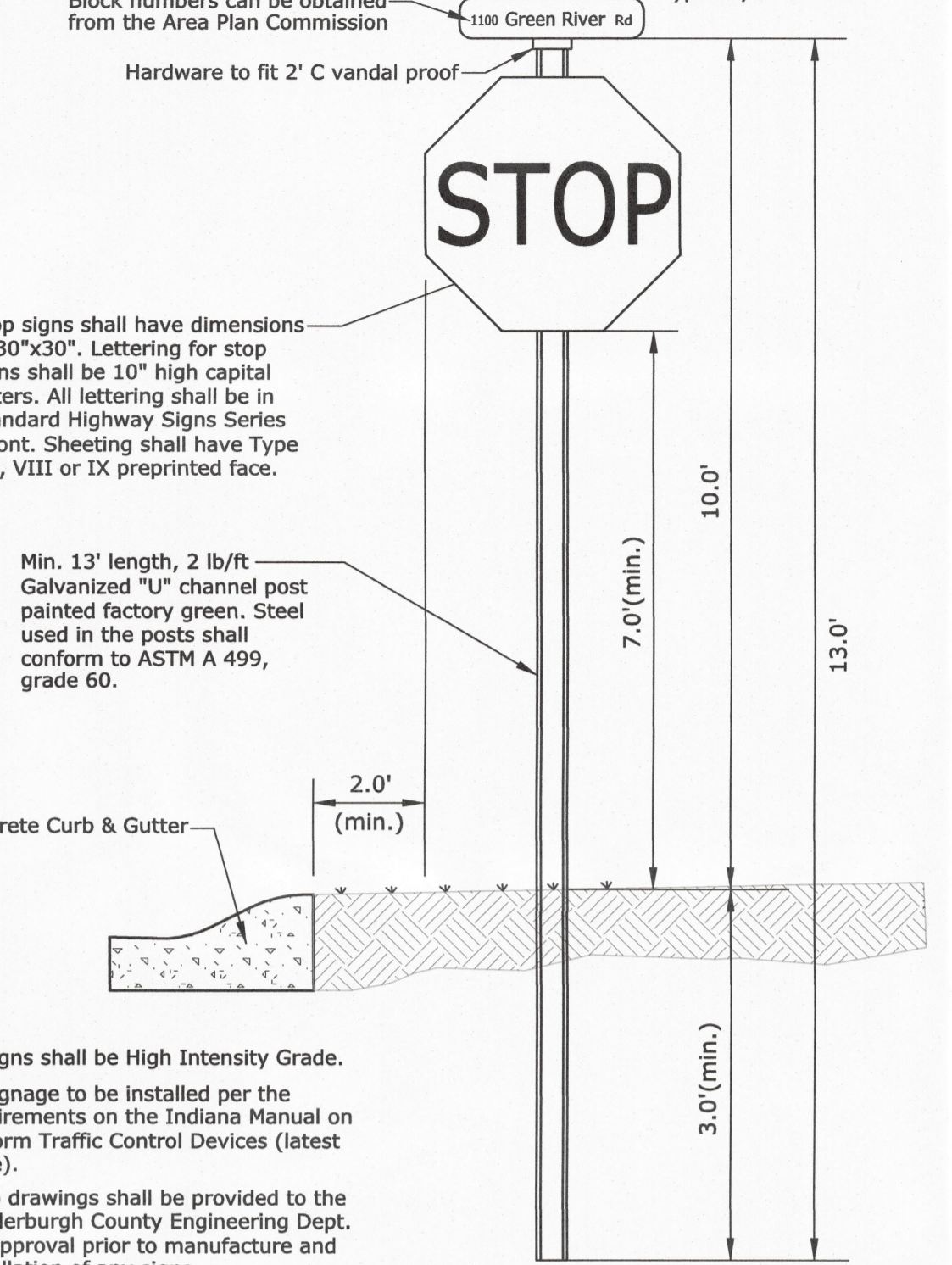
SECTION B-B

DIA.	WALL	G or T	WT. SEC.	A	B	C	D	E	DIA.+1	R-1	R-2	SKIRT
12	2	1 1/2	530	4	24	48 7/8	72 7/8	24	13	10 1/16	9	3 1/2
15	2 1/4	2	740	6	27	46	73	30	16	12 1/2	11	3 1/2
18	2 1/2	2 1/2	990	9	27	46	73	36	19	15 1/2	12	4
21	2 3/4	2 1/4	1280	9	35	38	73	42	22	16 1/8	13	4
24	3	2 1/2	1520	9 1/2	43 1/2	30	73 1/2	48	25	16 11/16	14	4 1/2
27	3 1/4	2 1/2	1930	10 1/2	48	25 1/2	73 1/2	54	28	17 3/4	14 1/2	4 1/2
30	3 1/2	3	2190	12	54	19 3/4	73 3/4	60	31	18 5/16	15	5
33	3 3/4	3 3/8	3150	13 1/2	58 1/2	39 1/4	97 3/4	66	34	23 3/4	17 1/2	5 1/2
36	4	3 1/2	4100	15	63	34 3/4	97 3/4	72	37	24 1/16	20	5 1/2
42	4 1/2	3 3/4	5380	21	63	35	98	78	43	27 1/4	22	5 1/2
48	5	4 1/4	6550	24	72	26	98	84	49	28 1/8	22	5 3/4
54	5 1/2	4 3/4	8040	27	65	35	100	90	55	32 7/8	24	6 1/4
60	6	5	8750	30	60	39	99	96	61	36 3/4	24	6 3/4
66	6 1/2	5 1/2	10630	24	78	21	99	102	67	35 11/16	24	7 1/4
72	7	6	12520	34	78	21	99	108	73	38 5/8	24	7 3/4
78	7 1/2	6 1/2	14430	24	78	21	99	114	79	41 15/16	24	8 1/2
84	8	7	16350	24	78	21	99	120	85	44 13/16	24	9

Note:
Manufacture of end section is in accordance with applicable portions of A.S.T.M. specification C76.

PRECAST CONCRETE END SECTION
Scale: N.T.S.

Street signs shall have dimensions of 8"x24", 8"x30" or 8"x36". Lettering for street name signs shall be 6" high upper case letters and 4.5" lower case letters. Supplementary lettering for the street suffix and the direction shall be 3" high. All lettering shall be in Standard Highway Signs Series C font. Sheeting shall be Type III, IV or X.

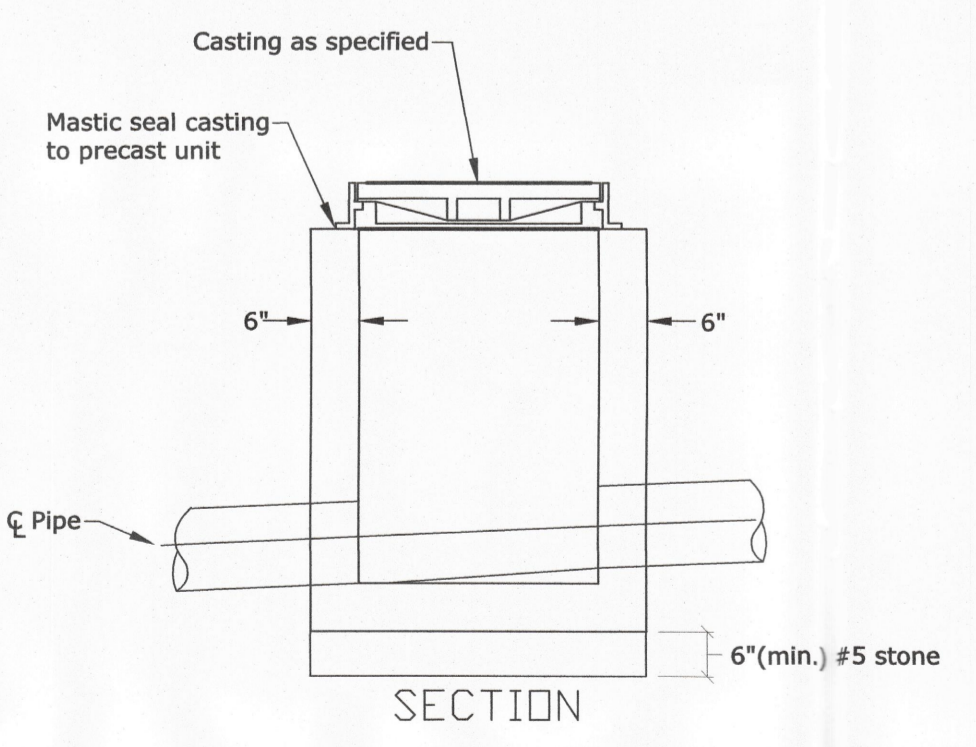
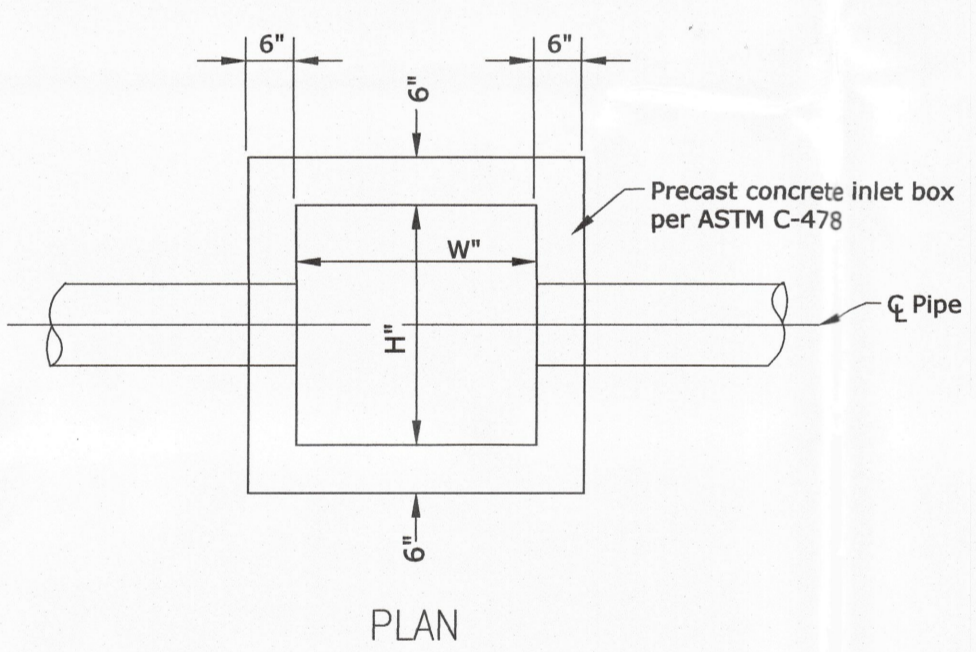


Stop signs shall have dimensions of 30"x30". Lettering for stop signs shall be 10" high capital letters. All lettering shall be in Standard Highway Signs Series C font. Sheeting shall have Type VII, VIII or IX preprinted face.

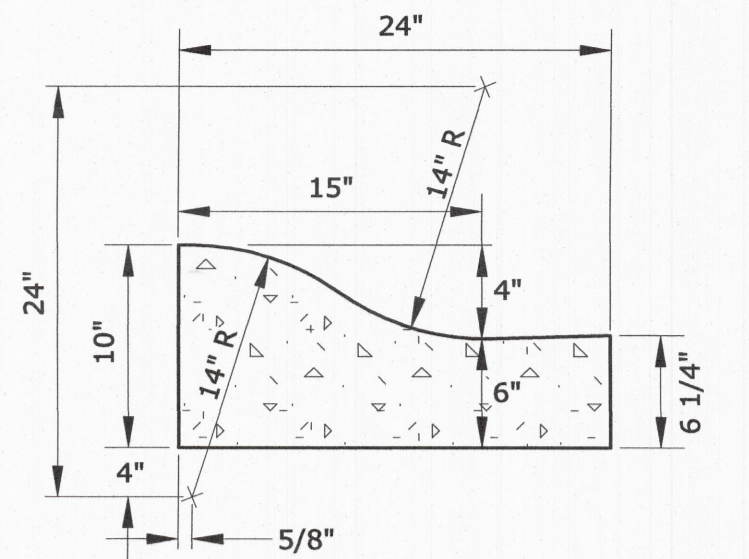
Min. 13' length, 2 lb/ft Galvanized "U" channel post painted factory green. Steel used in the posts shall conform to ASTM A 499, grade 60.

Notes:
1. All signs shall be High Intensity Grade.
2. All signage to be installed per the requirements on the Indiana Manual on Uniform Traffic Control Devices (latest issue).
3. Shop drawings shall be provided to the Vanderburgh County Engineering Dept. for approval prior to manufacture and installation of any signs.

STREET SIGNS
Scale: N.T.S.

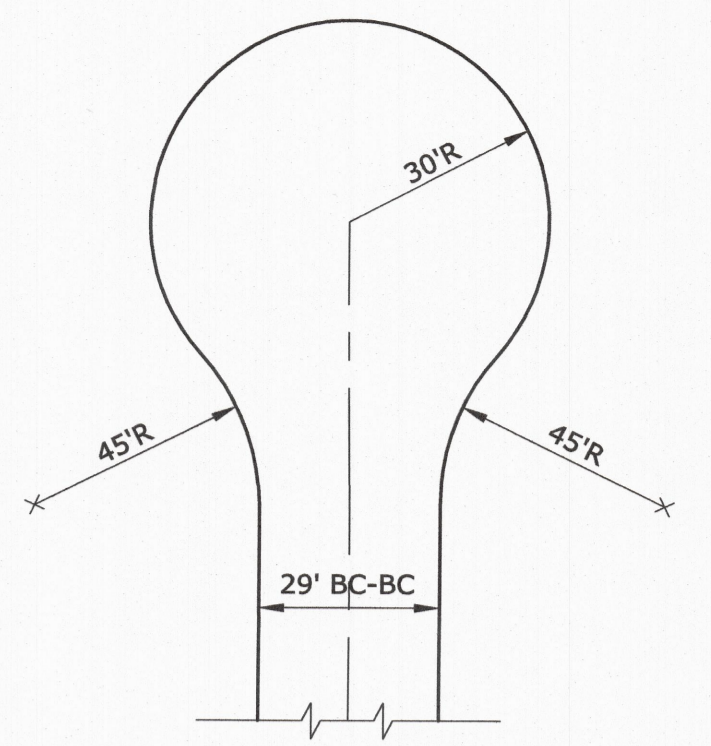


AREA DRAIN/MANHOLE

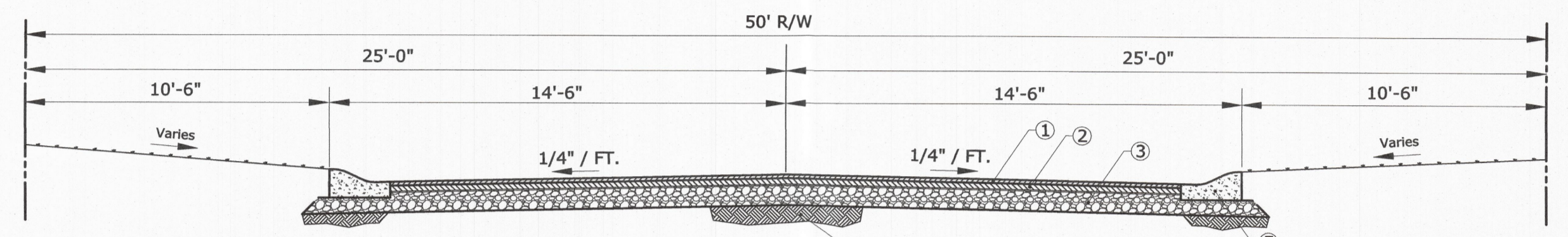


Notes:
1. 1/2" preformed expansion joint material at all P.C. and P.T. curb radii.
2. Tooled contraction joints at 10 ft. centers. Contraction joints to be a minimum 2" deep and 1/8" to 1/4" wide.

CONCRETE ROLL CURB AND GUTTER
Scale: N.T.S.



TYPICAL RESIDENTIAL CUL-DE-SAC
Scale: N.T.S.



Notes:
1. Compaction tests and proofroll are required by the County Engineer. A copy of the compaction tests shall be delivered to the owner and the County Engineer's office.
2. Subgrade must be proof rolled prior to the placement of any stone or pavement. Proof rolling shall be done by a fully legally loaded tri-axle dump truck. There shall be 1 or 2 complete coverages as directed. Roller marks, irregularities or failures shall be corrected. Proof rolling must be completed in the presence of a county inspector.
3. All fill must be constructed in lifts not to exceed eight inches.

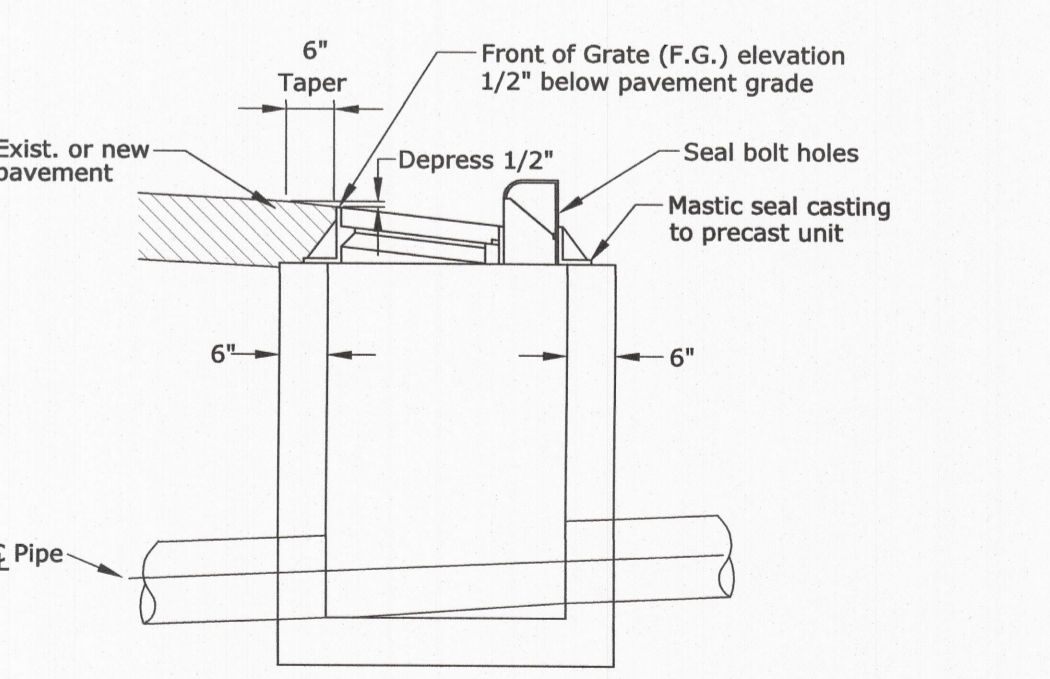
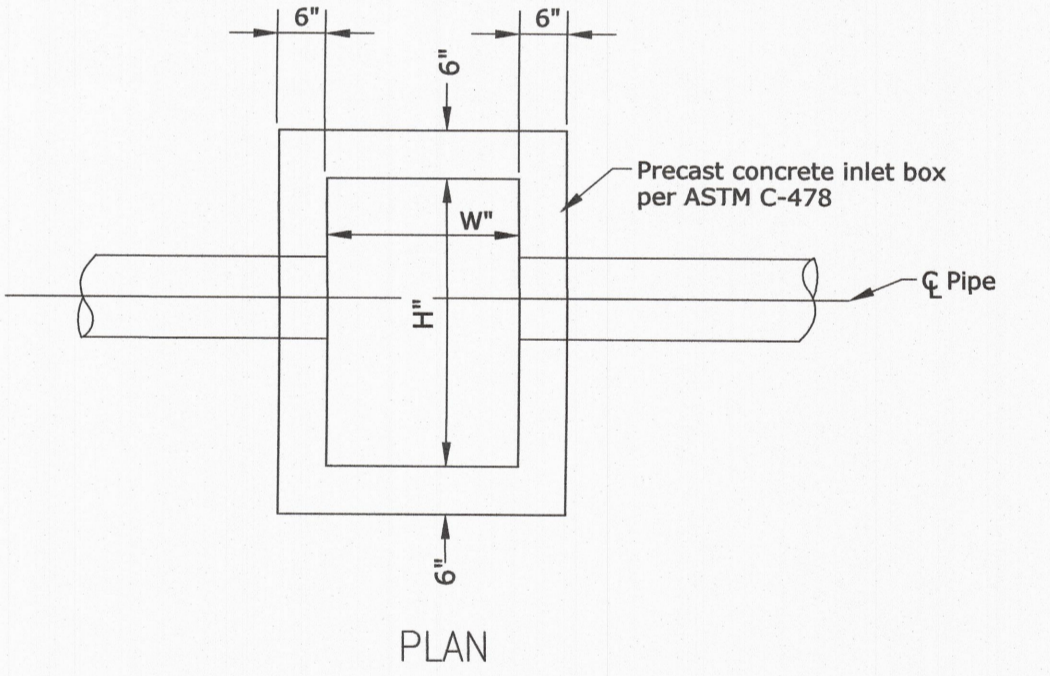
29' RESIDENTIAL BITUMINOUS PAVEMENT WITH CONCRETE ROLL CURB & GUTTER
Scale: N.T.S.

INLET BOX TABLE

CASTING BOX SIZE	INLET TYPE	CURB INLET	CURB INLET	DOUBLE CURB INLET	AREA DRAIN	AREA DRAIN
	"W"	24"	30"	24"	30"	30"
"H"	36"	46"	74"	30"	46"	
Paved Areas	EJIW #7030	EJIW #7030	EJIW #7030			
Grate	Type M2	Type M2	Type M2			
Non-Paved Areas				EJIW #6610	EJIW #6610	
Grate						

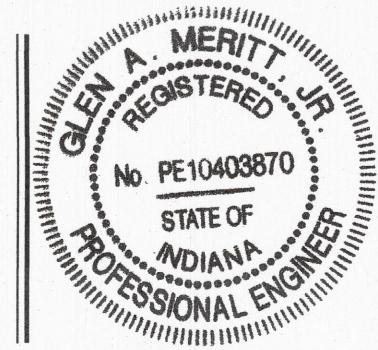
INLET NOTES:
All precast units shall conform to ASTM C-478.
Inlets shall be backfilled with granular material and compacted in 8" loose lifts to 95% Standard Density per ASTM D698.
Casting shall be mastic sealed to precast unit.
All connecting pipes shall be grouted with a high strength, non-shrink grout.
Frame & castings shown are the type & size required for the given box dimensions. Alternates shall be equal to those shown, including grate & opening sizes.

PRECAST INLET BOX
Scale: N.T.S.



CURB INLET

This drawing and/or specifications is provided as an instrument of service provided by Cash Wagner & Associates, PC and is intended for use on this project only. All drawings, specifications, designs, models, ideas, calculations, and arrangements appearing herein constitutes the original and unpublished work of and remains the property of Cash Wagner & Associates, PC. Any reproduction, use or disclosure of the proprietary information contained herein without the prior written consent of the Cash Wagner & Associates, PC is strictly prohibited.



SIGNATURE: *G. Merritt* DATE: 12 Feb 18



414 CITADEL CIRCLE SUITE B
EVANSVILLE, IN 47715
PH: 812.401.5561
FAX: 812.401.5563
CELL: 812.774.2988
E-MAIL: GMERRIT@CASHWAGNER.COM

NO.	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			

PROJECT NO.: 14-1838
DESIGNED BY: G.A.M.
DRAWN BY: G.A.M.
FILENAME: 1838 Road Storm Dtls
LAYOUT TAB:
SCALE: As Shown

PROJECT: GREEN RIVER MEADOWS
ADDRESS: GREEN RIVER ROAD
EVANSVILLE, INDIANA
SHEET TITLE: ROAD & STORM SEWER DETAILS

DATE: 02.12.18
DRAWING NO.: C-111
OR:

RECEIVED BY THE VANDERBURGH COUNTY SURVEYOR'S OFFICE 5-18-2021 8:00 AM