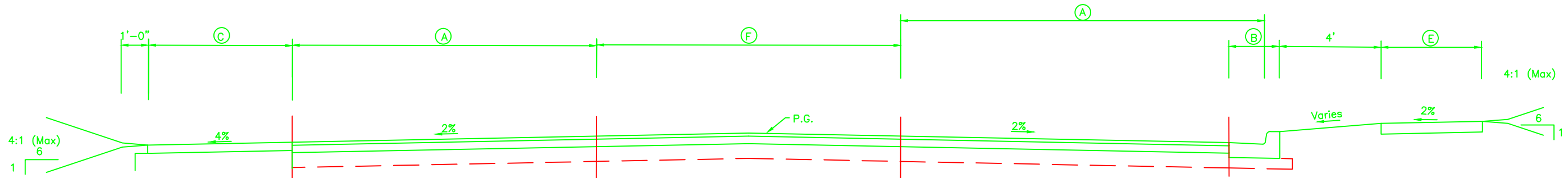


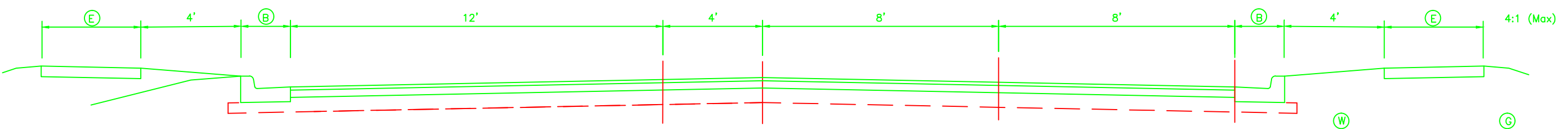
Typical Street

Scale: 1/4"=1'-0"



Typical Street (With TWLTL)

Scale: 1/4"=1'-0"



Proposed Residential Street (W/ Sidewalks)

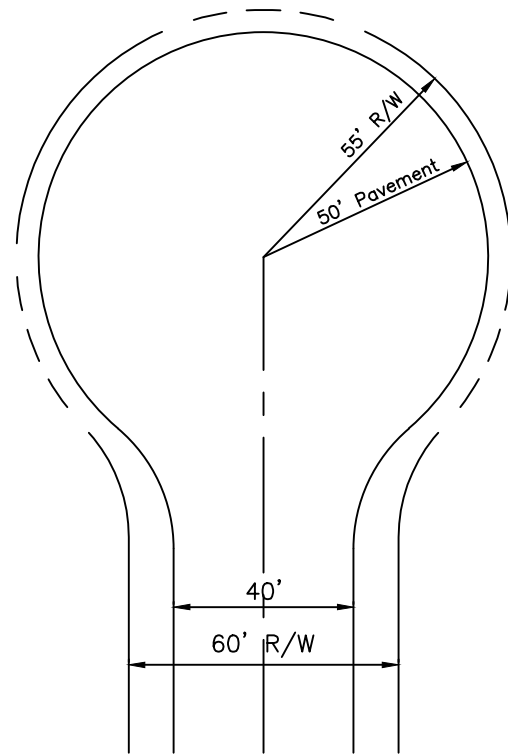
NOT TO SCALE

LETTER REF	DESCRIPTION	INTERMEDIATE
		NEW CONSTR.
A	LANE WIDTH	12' (DES)
B	CURB & GUTTER	2'
C	SHOULDER WIDTH	8'
D	PARKING LANE WIDTH	8'
E	SIDEWALK WIDTH	5'
F	TWO WAY LEFT TURN LANE (TWLTL)	13' (DES)

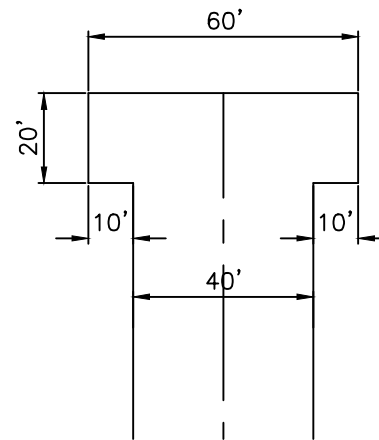
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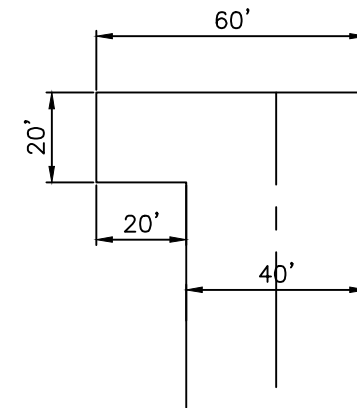
Ph: 812-482-4255
Fax: 812-482-7852



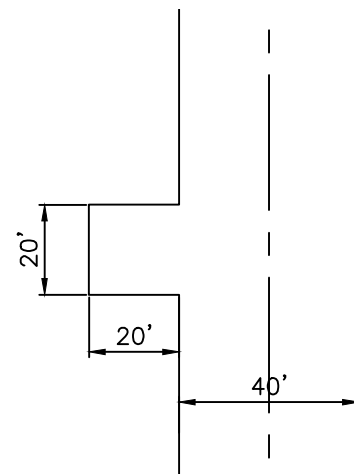
Cul-De-Sac
Scale: 1"=40'-0"



"T" Type Turn Around
Scale: 1"=40'-0"



"L" Type Turn Around
Scale: 1"=40'-0"



Branch Type Turn Around
Scale: 1"=40'-0"

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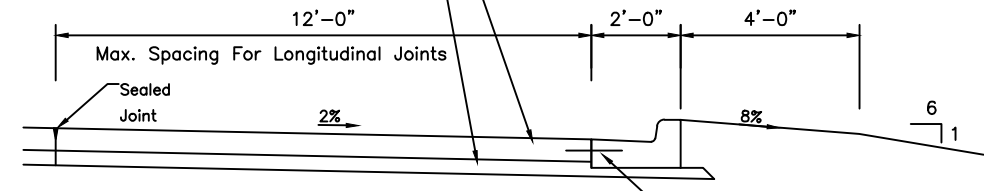
Ph: 812-482-4255
Fax: 812-482-7852

STANDARD DETAILS FOR STREETS AND CURBS	
Cul-De-Sac/Turn-Around Details	ISSUED: 9/01/2013
	SHEET 2

6" Fiber Reinforced Cement Concrete Pavement
 INDOT Class "A" Concrete W/10' Joint Spacing, on
 Transverse Joint Spacing, on
 6" No. 53 Compacted Aggr. Base

Note: All Joints Shall Be
 A.) Tied Transverse Expansion Joints
 B.) Longitudinal Construction Joints
 C.) Contraction Joints (Longitudinal or
 Transverse) Spaced, Tooled or Cut
 and Sealed as detailed.

ALL DETAILED AS SHOWN ON SHT NO. 6



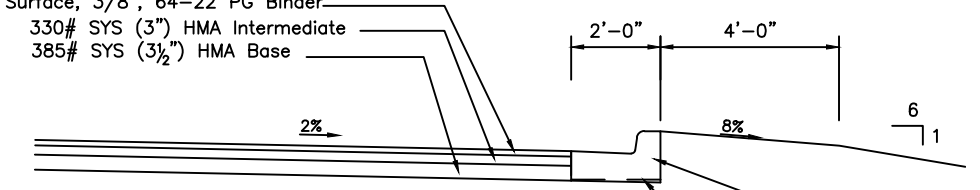
Residential Concrete

Scale: 1/4"=1'-0"

Integral Curb may be placed with
 pavement as long as jointing
 requirements are met.
 If Curb and Gutter Section
 is Poured Separately, Install
 #5 Bars (18" Long) @ 2'-0" O.C.

This area intentionally left blank

165# SYS (1 1/2") HMA Surface, 3/8", 64-22 PG Binder
 330# SYS (3") HMA Intermediate
 385# SYS (3 1/2") HMA Base

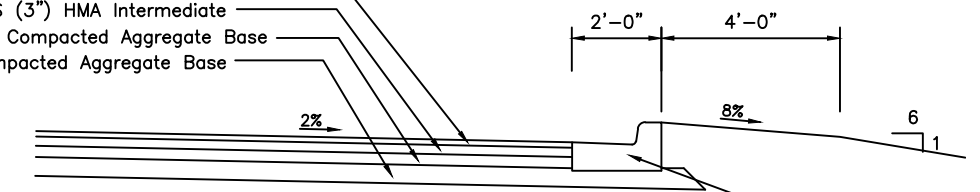


Residential Full Depth Asphalt Composition

Scale: 1/4"=1'-0"

Modified Curb & Gutter
 (Inc. Height to Meet
 Plane of Subgrade)
 -or-
 Compacted #53 Stone
 Placed Beneath Curb

165# SYS (1 1/2") HMA Surface
 330# SYS (3") HMA Intermediate
 3" No.53 Compacted Aggregate Base
 5" No.23 Compacted Aggregate Base



Residential Asphalt Composition

Scale: 1/4"=1'-0"

Standard Curb &
 Gutter

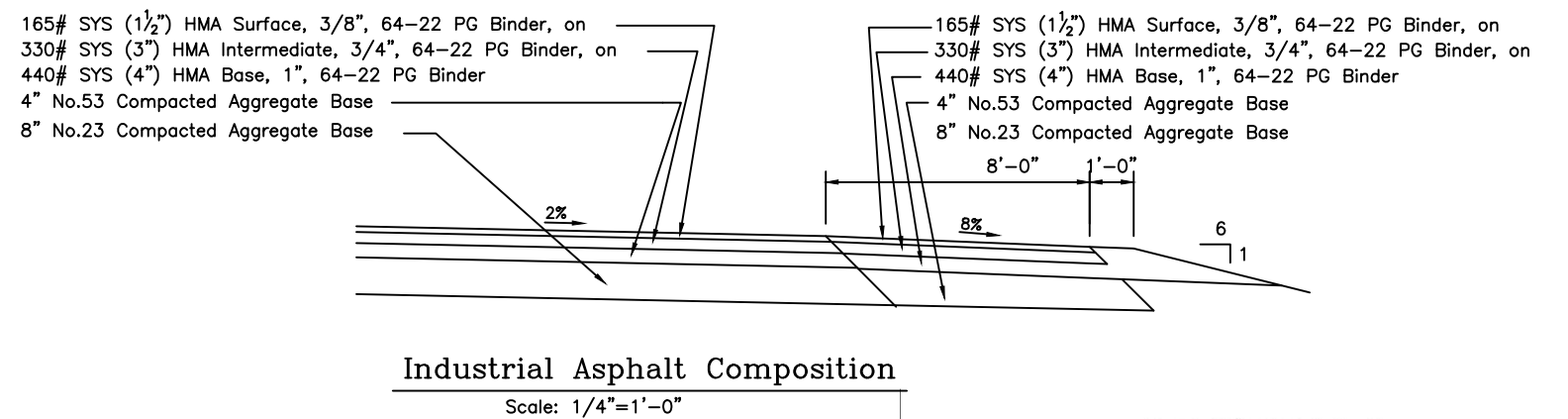
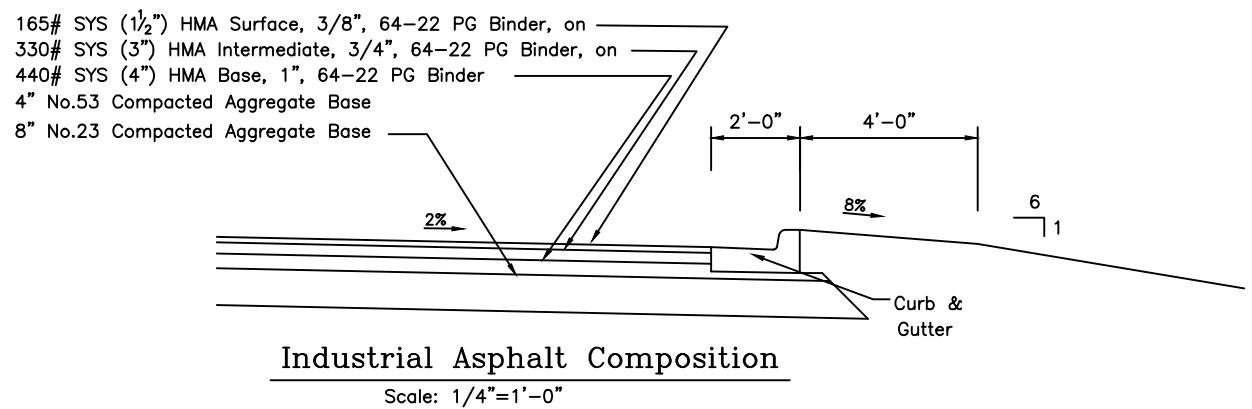
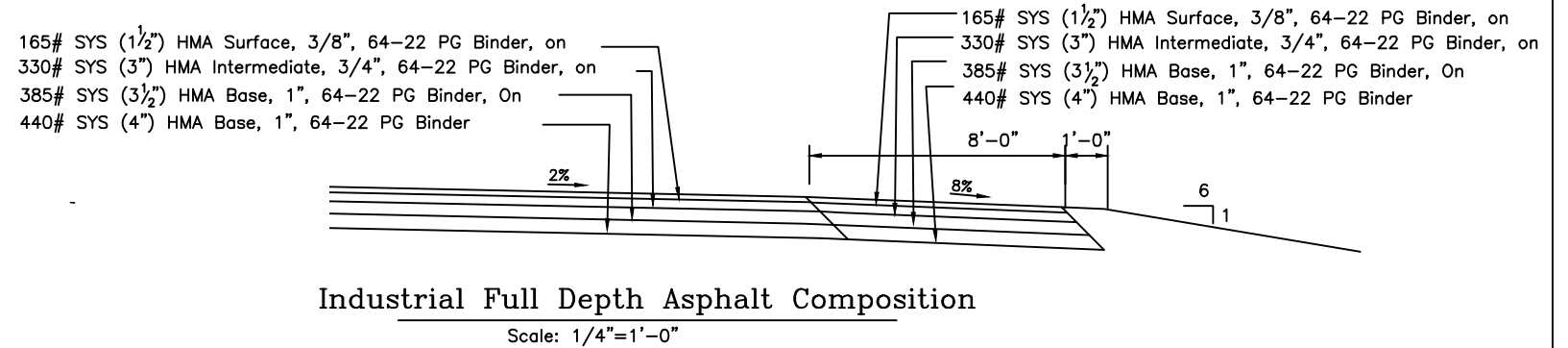
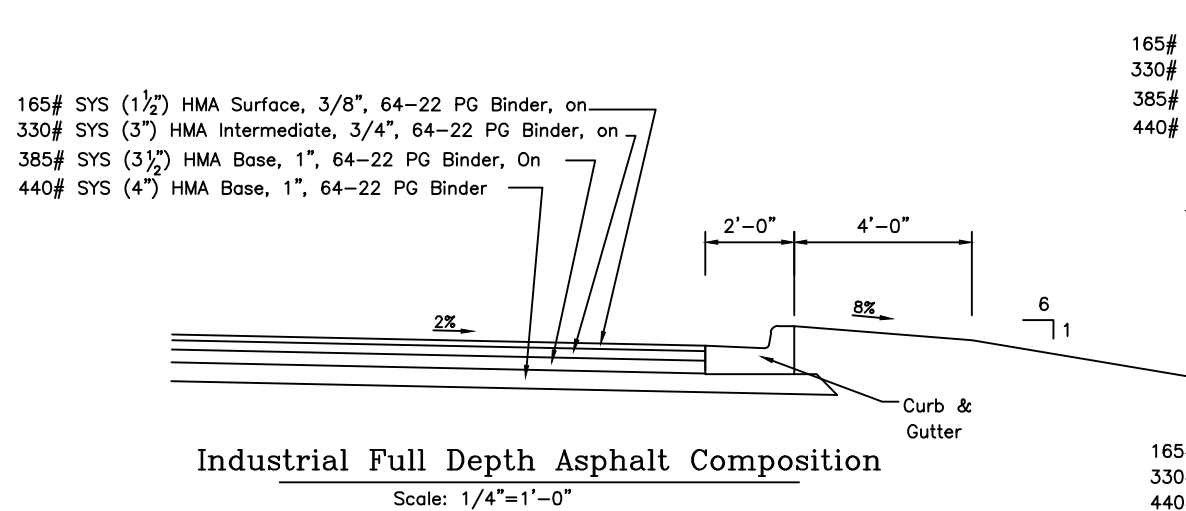
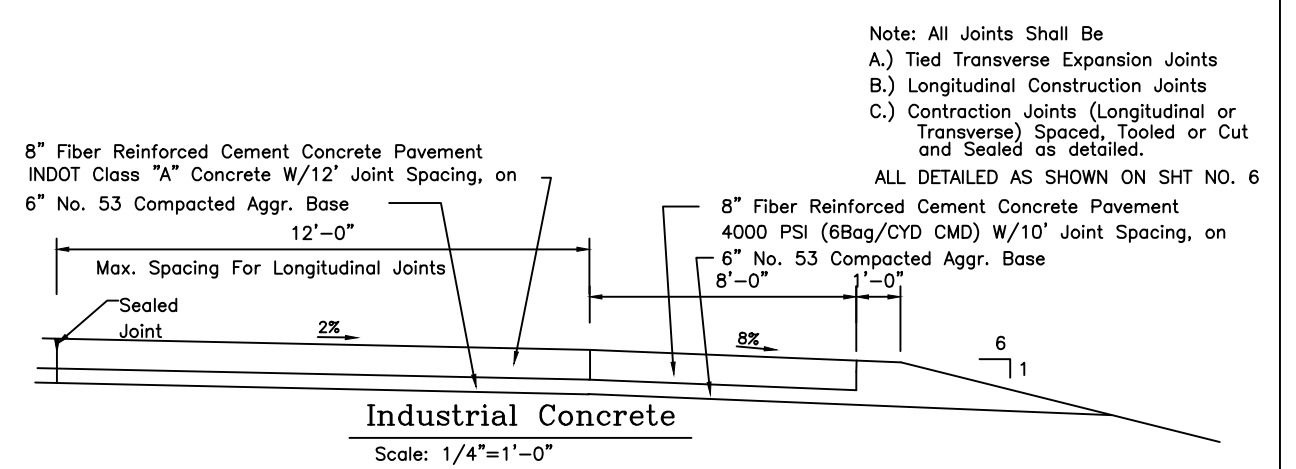
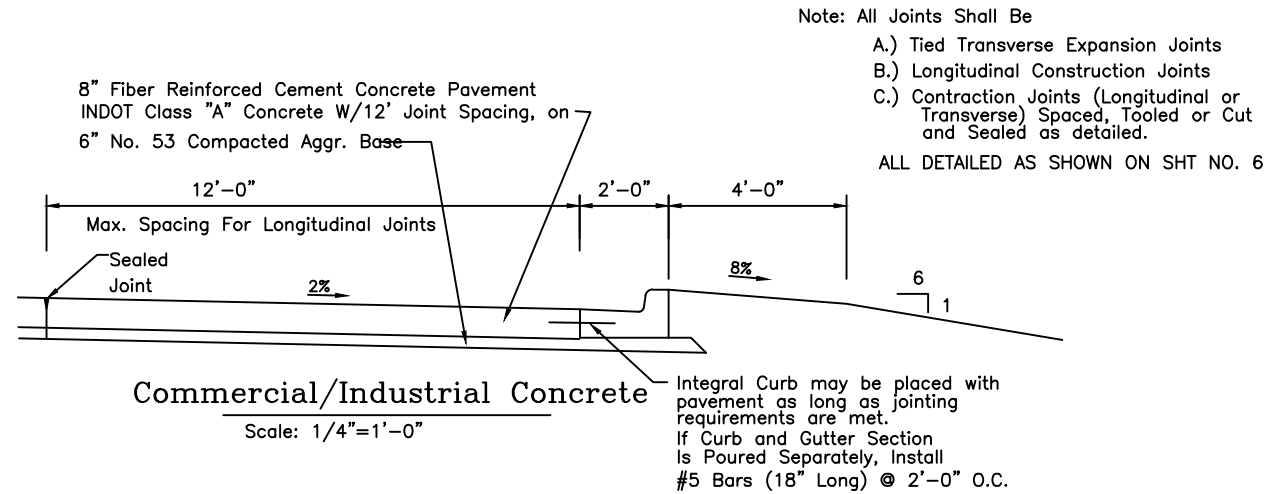
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STANDARD DETAILS FOR STREETS AND CURBS	
Residential Street Construction	ISSUED: 9/01/2013 SHEET 3



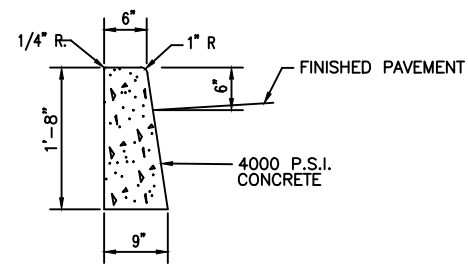
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 Fax: 812-482-7852

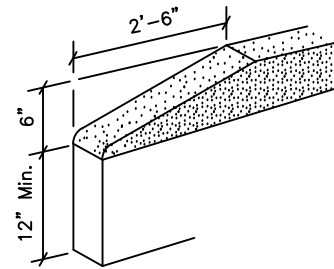
STANDARD DETAILS FOR STREETS AND CURBS	
Commercial / Industrial	ISSUED:
Street Construction	9/01/2013
	SHEET 4



STANDING CONCRETE CURB

NOT TO SCALE

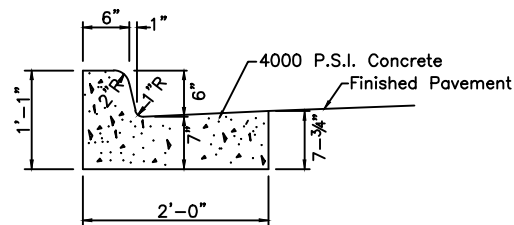
NOTE:
 "Slip Formed" curb and gutter are to be 4000 PSI concrete
 "Hand Formed" curb and gutter are to be 4500 PSI concrete



CURB TRANSITION

NOT TO SCALE

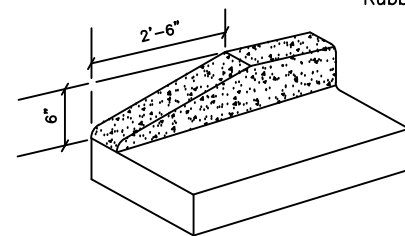
NOTES;
 1. Provide 1/2" Expansion Joints at 20'-0" o.c.
 2. All Exposed Surfaces Shall be Stripped Green, Troweled & Curb Edging Rubbed Smooth.



CURB & GUTTER

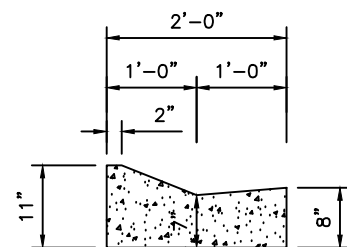
NOT TO SCALE

NOTE:
 "Slip Formed" curb and gutter are to be 4000 PSI concrete
 "Hand Formed" curb and gutter are to be 4500 PSI concrete



CURB TRANSITION

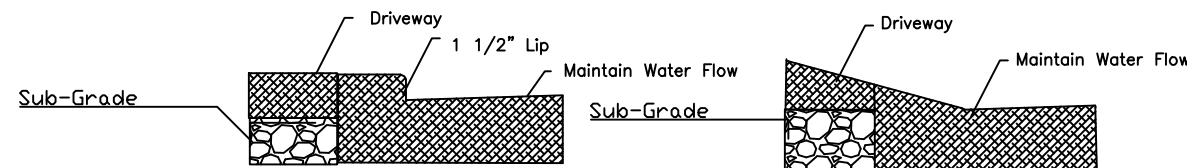
NOT TO SCALE



"V" Curb

NOT TO SCALE

NOTES:
 (1) 1/2" Preformed Expansion Joint Material at all P.C. & P.T. of Curb Radius & Max. Spacing of Tangent Sections = 90'.
 (2) Tooled Contraction Joints at 10'-0" Centers. Contraction Joint To Be Minimum 3" Deep & 1/8" to 1/4" Wide.



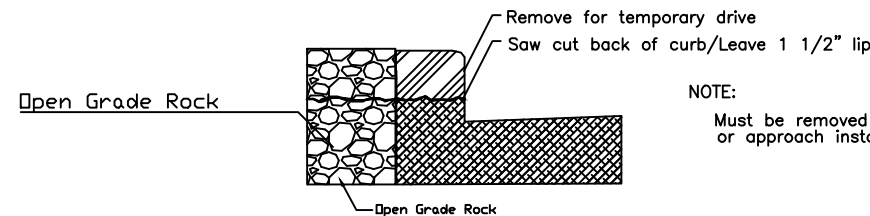
CURB & GUTTER DETAIL

NOT TO SCALE

"V" CURB DETAIL

NOT TO SCALE

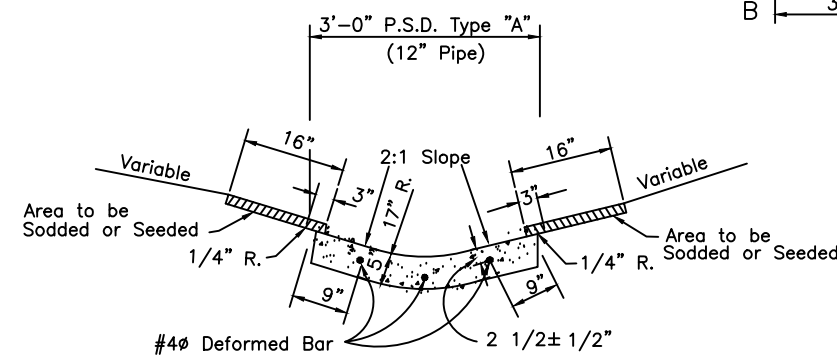
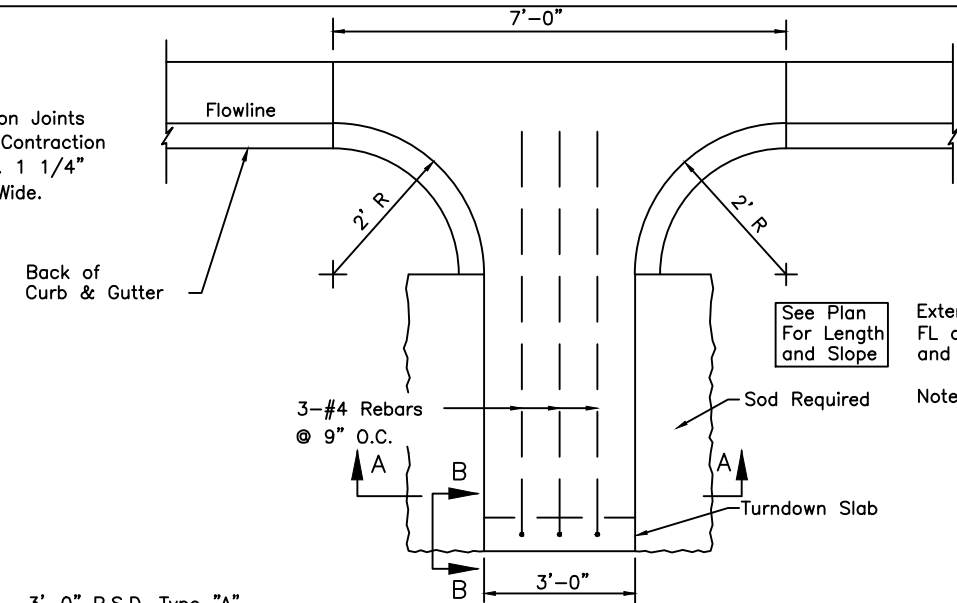
DRIVEWAY ENTRANCE DETAILS



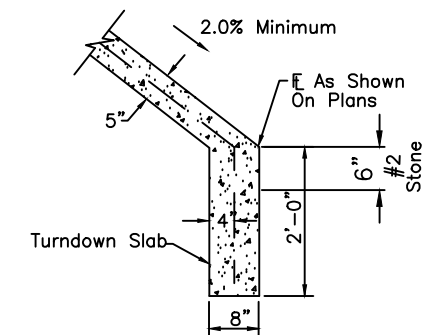
TEMPORARY CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

Note: Tooled Contraction Joints 10'-0" Centers. Contraction Joints to be Min. 1 1/4" Deep and 1/8" Wide.



SECTION A-A



SECTION B-B

STRAIGHT CURB TURNOUT & PAVED INVERT DETAIL

No Scale

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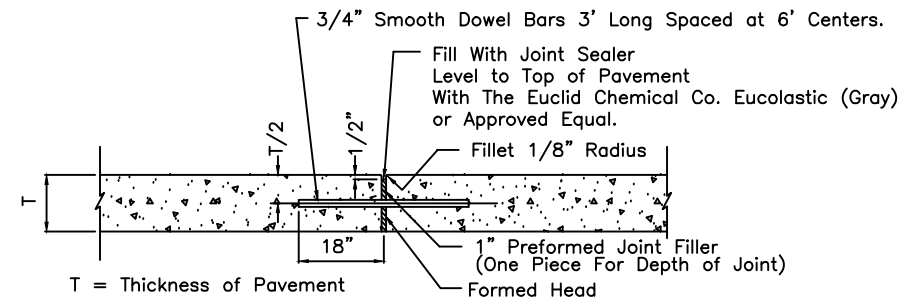
Engineering Dept.
 610 Main Street
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 Fax: 812-482-7852

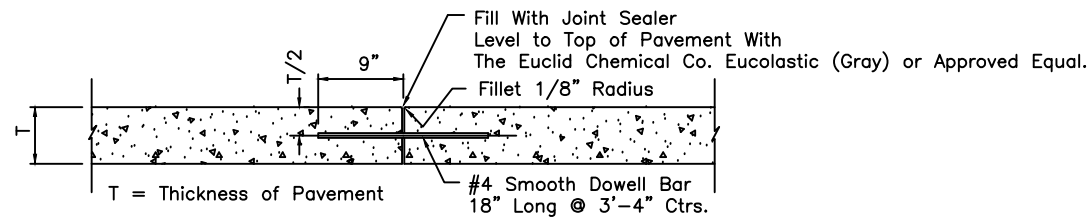
STANDARD DETAILS FOR STREETS AND CURBS

Curb/Turnout Details

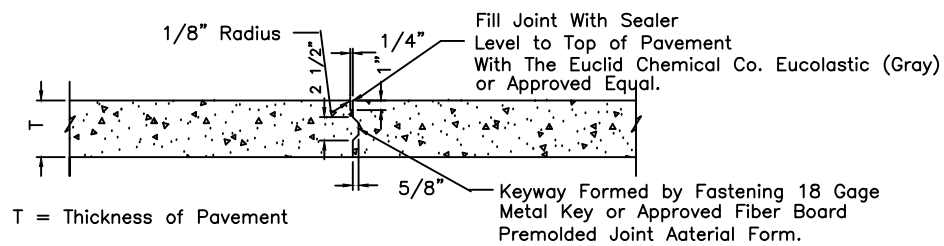
ISSUED:
 9/01/2013
 SHEET 5



(A) TIED TRANSVERSE EXPANSION JOINT
 Not To Scale
 (AT END OF DAYS POUR)

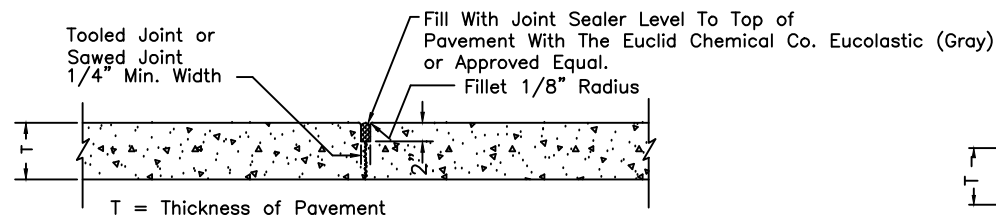


(B1) LONGITUDINAL CONSTRUCTION JOINT
 Not To Scale
 (C STREET)

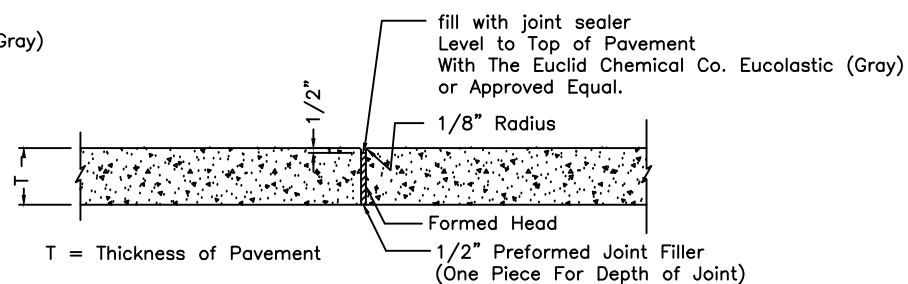


(B2) LONGITUDINAL CONSTRUCTION JOINT
 Not To Scale
 (AT CROSS STREET INTERSECTIONS {DO NOT TIE})

JOINT DETAILS

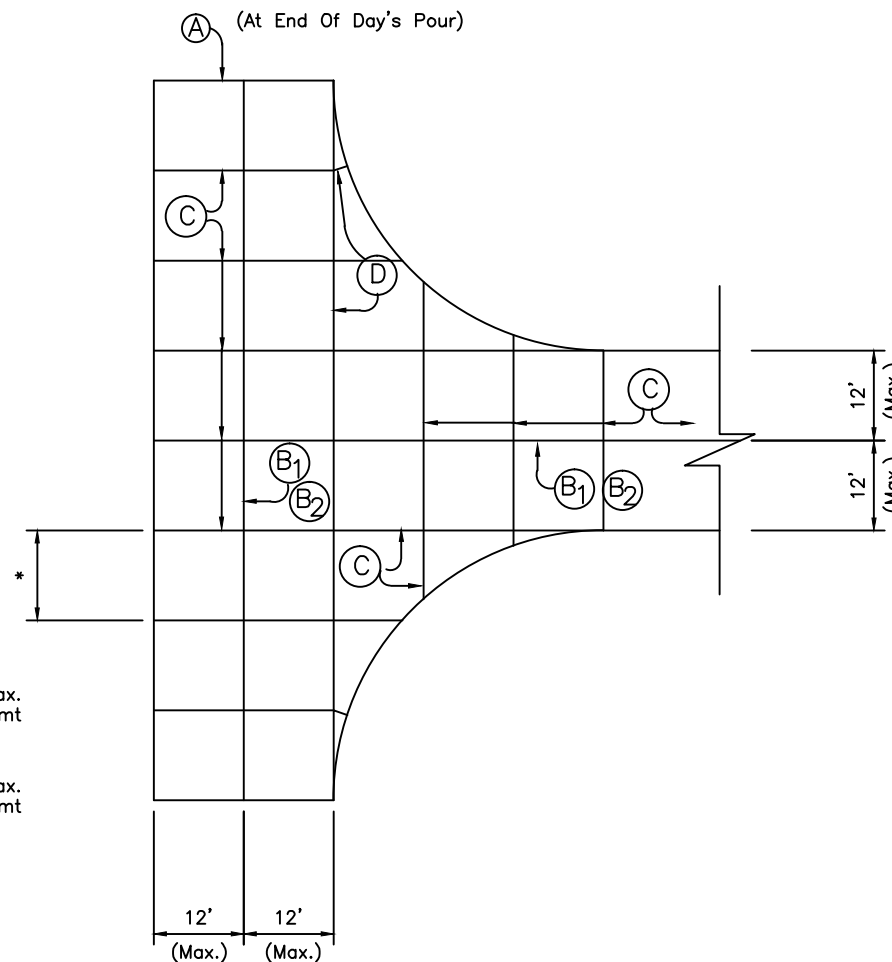


(C) CONTRACTION JOINT
 Not To Scale
 (LONGITUDINAL OR TRANSVERSE)

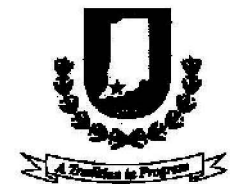


(D) TRANSVERSE EXPANSION JOINT
 Not To Scale

JOINT DETAILS



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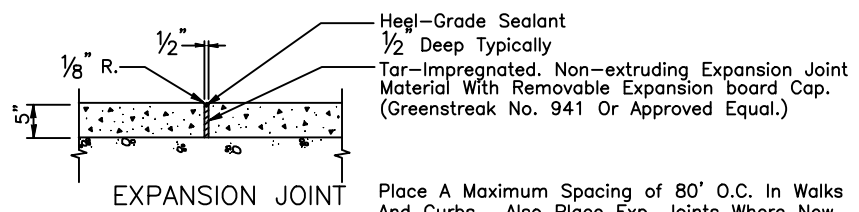
Engineering Dept.
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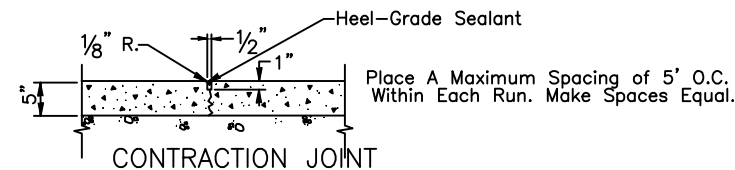
STANDARD DETAILS FOR STREETS AND CURBS

Concrete Pavement
 Jointing Details

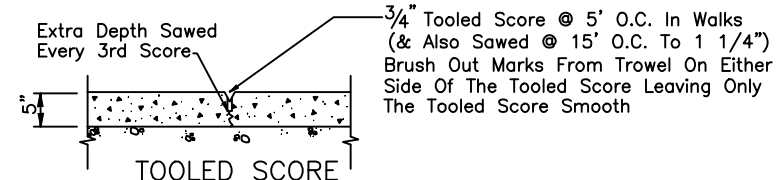
ISSUED:
 9/01/2013
 SHEET 6



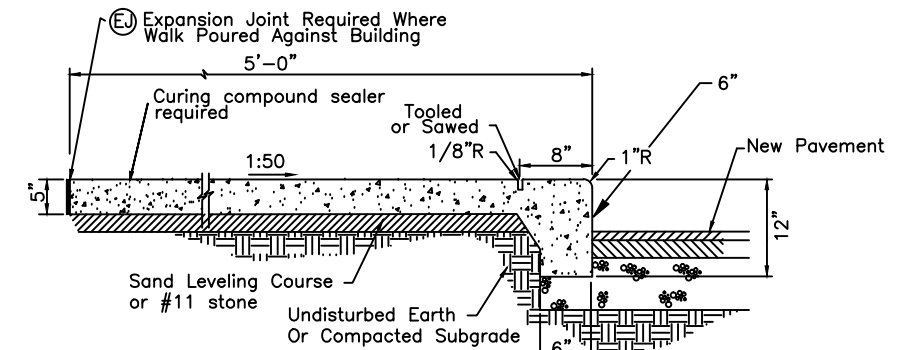
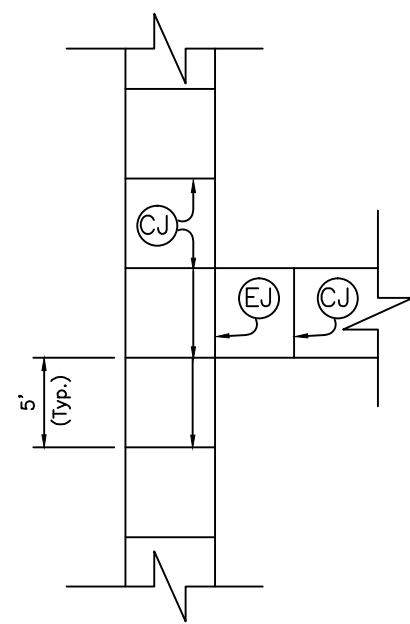
Place A Maximum Spacing of 80' O.C. In Walks And Curbs. Also Place Exp. Joints Where New Concrete Walks Meet Existing Pavements, Buildings, And Between Walk & Curb or Other Locations Shown on Plans.



Place A Maximum Spacing of 5' O.C. Within Each Run. Make Spaces Equal.

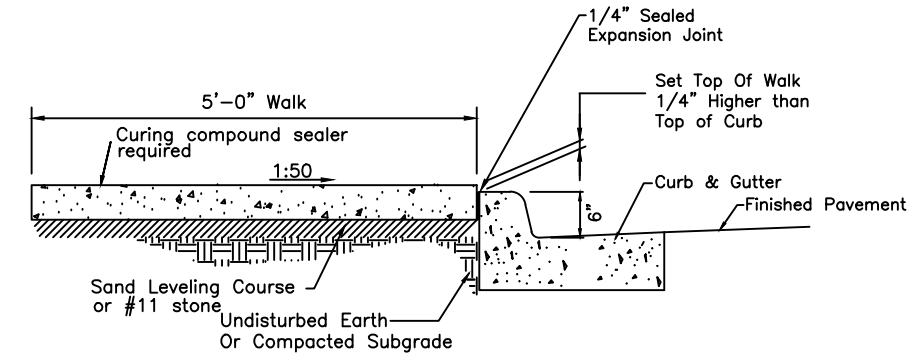


CONCRETE WALK JOINTING
NOT TO SCALE



* NOTE: See Walk Jointing Details
Max Joint Spacing Not To Exceed 5'

INTEGRAL CURB/WALK
Not to Scale



SEPARATE CURB/WALK
SCALE: 3/4"=1'-0"

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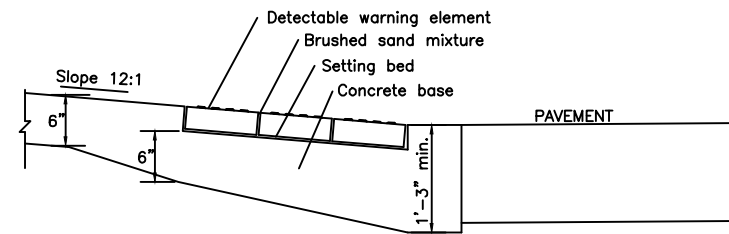


Ph: 812-482-4255
Fax: 812-482-7852

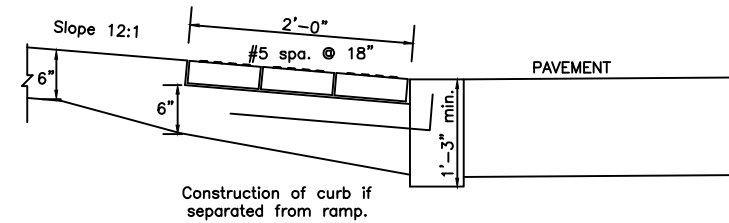
STANDARD DETAILS FOR STREETS AND CURBS	
Concrete Walk Jointing Details	ISSUED: 9/01/2013 SHEET 7

GENERAL NOTES:

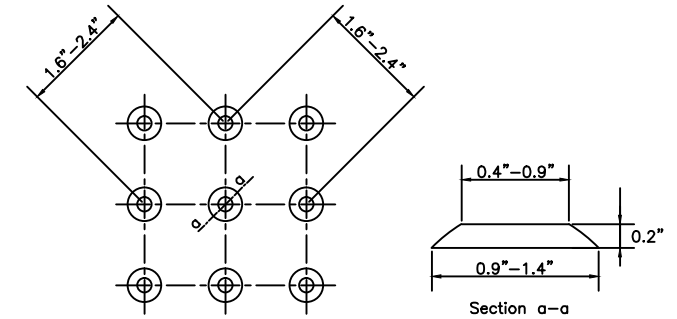
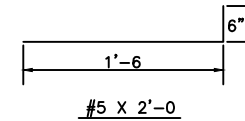
- ① These dimensions are based on a 6" curb height. They shall be proportionally adjusted for other curb heights.
- ② A 3' min. width ramp may be used when existing space prohibits the construction of the 4' wide ramp.
- ③ The bottom edge of the curb ramp shall be flush with the edge of the adjacent pavement & gutter line.
- ④ Maximum cross slope on landings shall be 2.0% in any direction. The running slope of the curb ramp may be steepened to a max. of 10:1 for a maximum 6" rise.
- ⑤ Concrete for curb ramps shall be 4500psi concrete.
- ⑥ All exposed edges shall be rounded with a 1/4" radius tool.
- ⑦ Subgrade for curb ramps shall be a minimum of 2" thick of either "B" Borrow or No.53 crushed stone & mechanically compacted.
- ⑧ A 1/2" preformed joint filler shall be installed in the curb at the beginning & ends of the ramp and between the curb & ramp.
- ⑨ Algebraic difference in grade between the base of curb ramp and the gutter shall be limited to less than 11%. If the grades are greater than 11%, a 2'-0" wide level strip shall be provided. See detail sketch below.
- ⑩ The cost of the curb ramp includes the ramp, flared sides, warped or rolled edges and detectable warning domes.
- ⑪ Detectable warning truncated domes may be constructed with brick per INDOT standards; or with Armor-Tile, cast-in-place panels, or Meltdown or adhesive.
- ⑫ Detectable warning dome area must meet ADA Requirements for color contrast.
- ⑬ Paint curb in the width of the ramp in accordance with INDOT specifications 604.03 (i)
- ⑭ See for details of the detectable warning.
- ⑮ See for alternate curb construction.
- ⑯ See for general notes.



BRICK SURFACE CONSTRUCTION

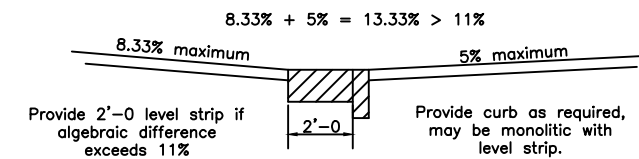


ALTERNATE CURB CONSTRUCTION



Square Pattern

TRUNCATED DOMES USED IN DETECTABLE WARNINGS



CHANGE OF GRADE

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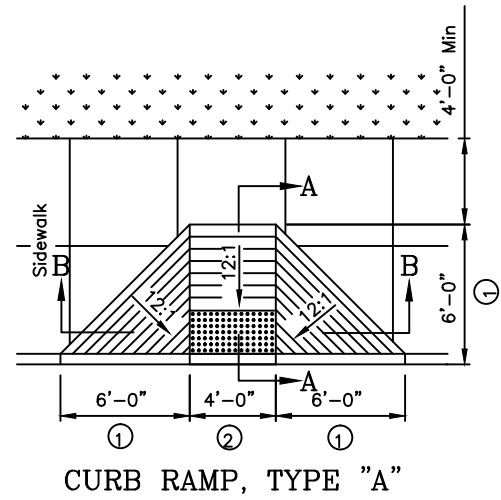
Ph: 812-482-4255
Fax: 812-482-7852

STANDARD DETAILS FOR STREETS AND CURBS

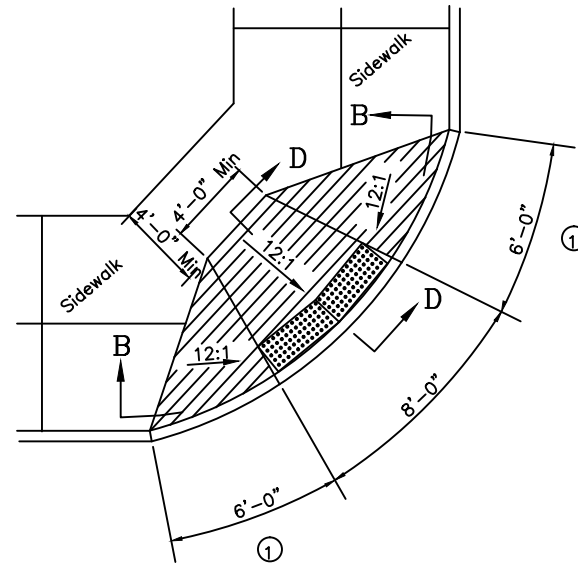
CURB RAMP

DETAILS AND NOTES

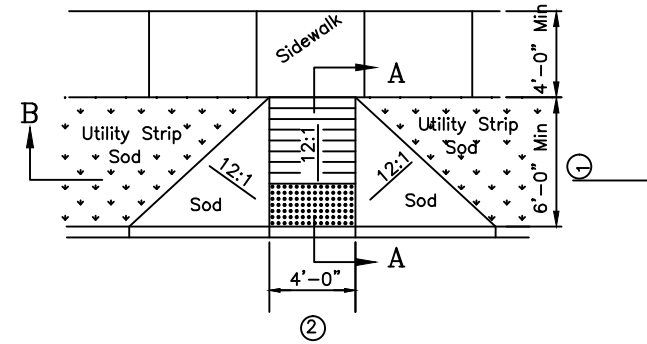
ISSUED:
9/01/2013
SHEET 8



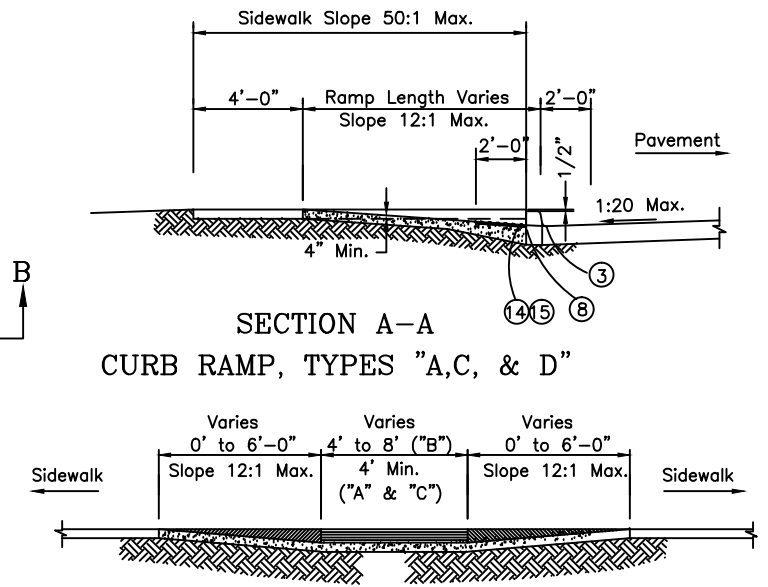
CURB RAMP, TYPE "A"



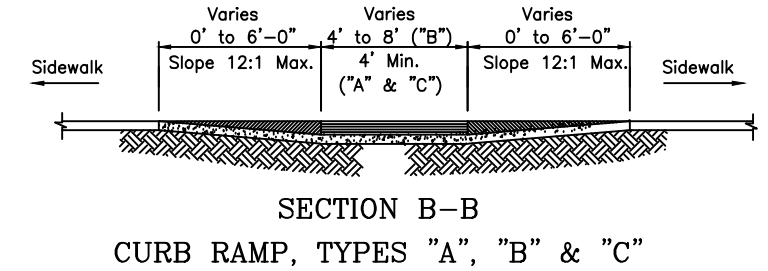
CURB RAMP, TYPE "B"



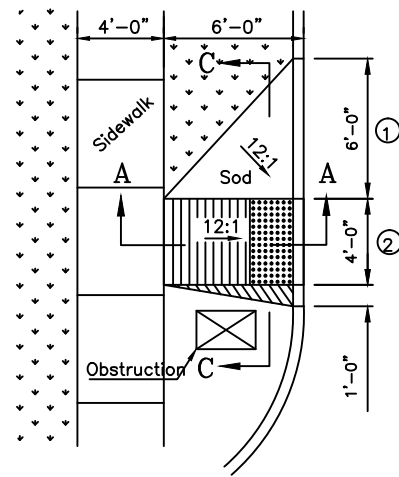
CURB RAMP, TYPE "C"



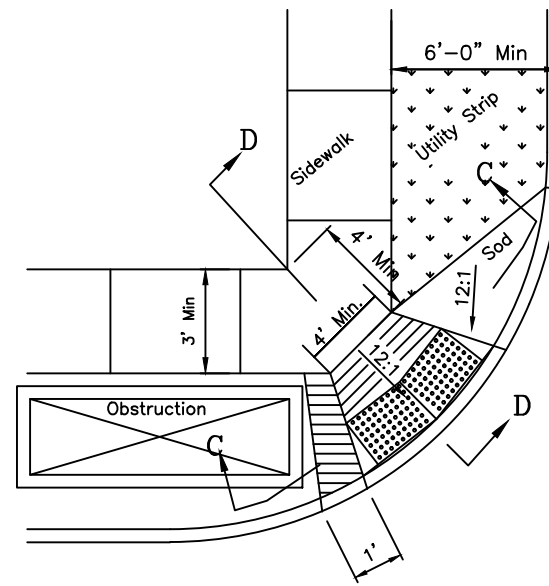
SECTION A-A
CURB RAMP, TYPES "A,C, & D"



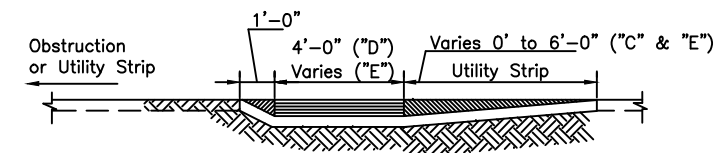
SECTION B-B
CURB RAMP, TYPES "A", "B" & "C"



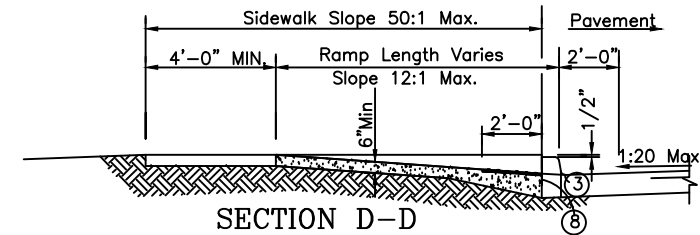
CURB RAMP, TYPE "D"



CURB RAMP, TYPE "E"



SECTION C-C
CURB RAMP, TYPES "D" & "E"



SECTION D-D
CURB RAMP, TYPES "B" & "E"

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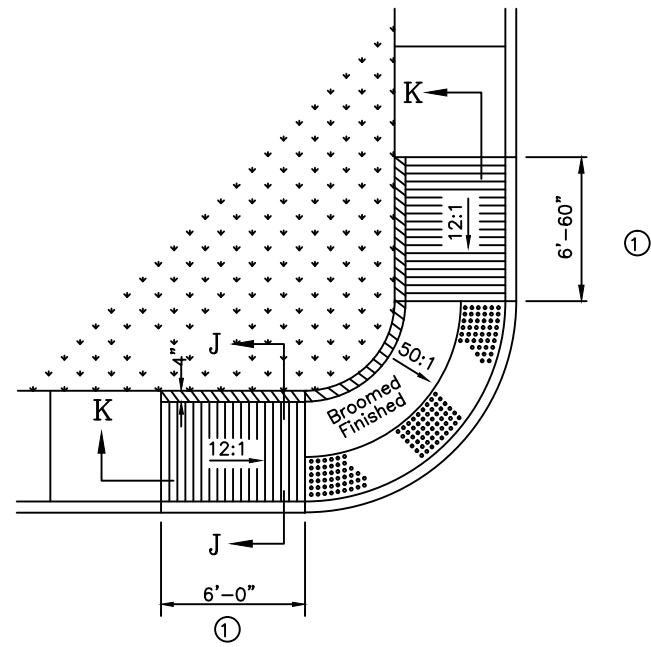
Engineering Dept.
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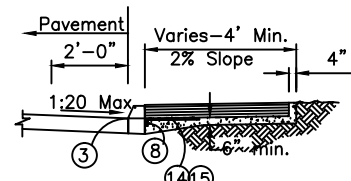
Ph: 812-482-4255
Fax: 812-482-7852

STANDARD DETAILS FOR STREETS AND CURBS
CURB RAMPS
TYPES "A, B, C, D, and E"

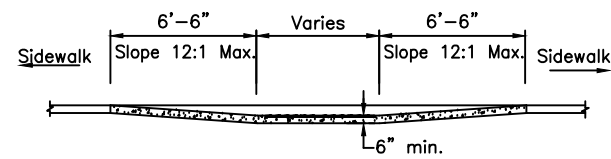
ISSUED:
9/01/2013
SHEET 9



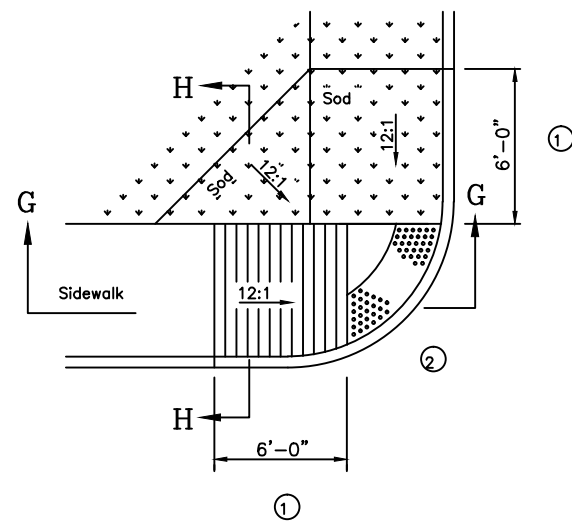
CURB RAMP, TYPE "F"



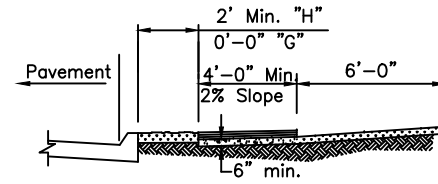
SECTION J-J
CURB RAMP, TYPE "F"



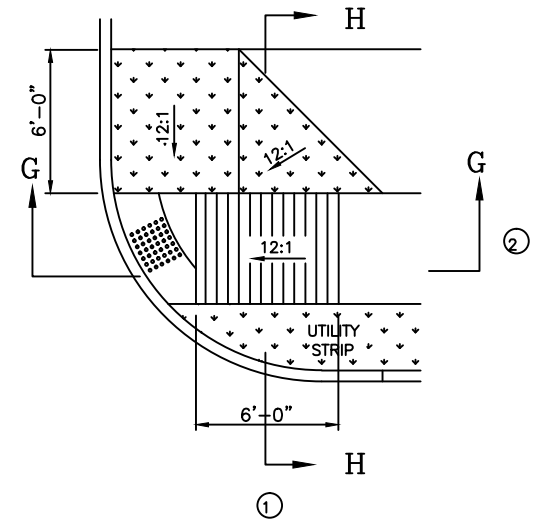
SECTION K-K
CURB RAMP, TYPE "F"



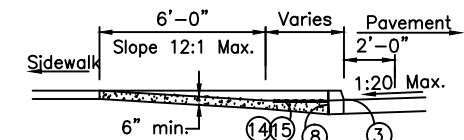
CURB RAMP, TYPE "G"



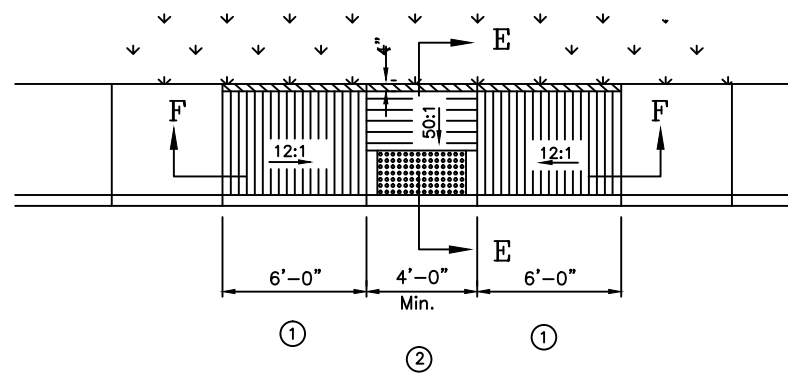
SECTION H-H
CURB RAMP, TYPES "G & H"
(Reversed for "H")



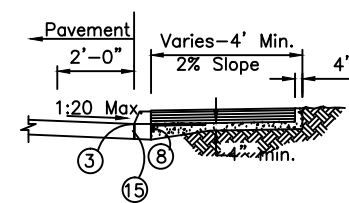
CURB RAMP, TYPE "H"



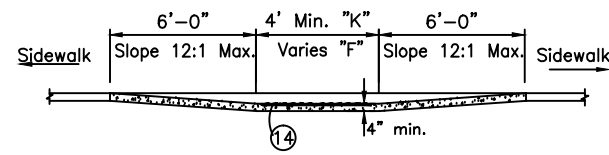
SECTION G-G
CURB RAMP, TYPES "G & H"
(Reversed for "H")



CURB RAMP, TYPE "K"



SECTION E-E
CURB RAMP, TYPE "K"



SECTION F-F
CURB RAMP, TYPE "K"

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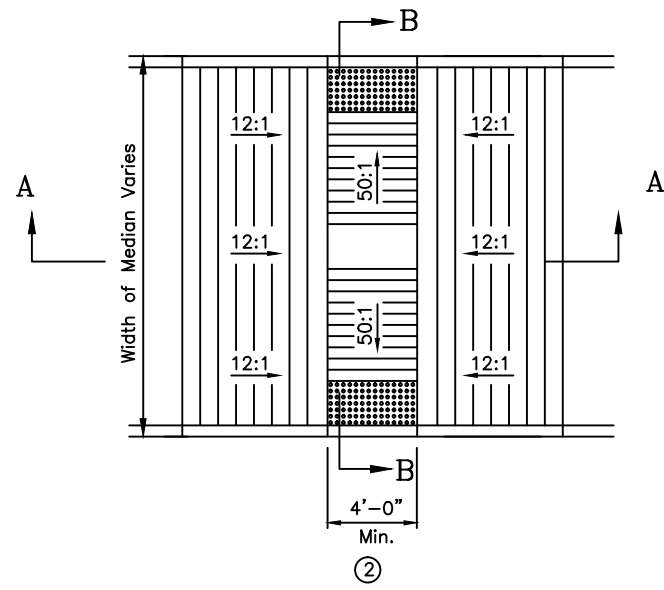


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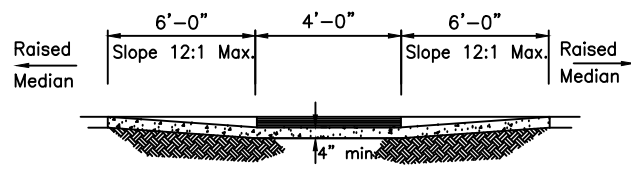
STANDARD DETAILS FOR STREETS AND CURBS

CURB RAMPS
TYPES "F, G, H, and K"

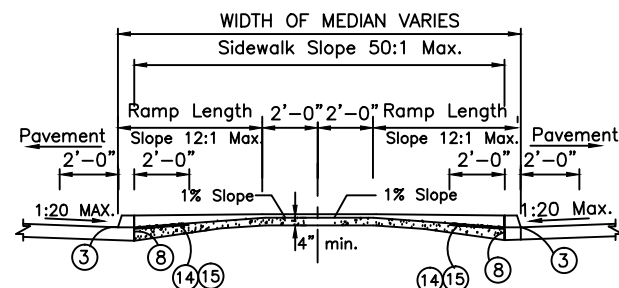
ISSUED:
9/01/2013
SHEET 10



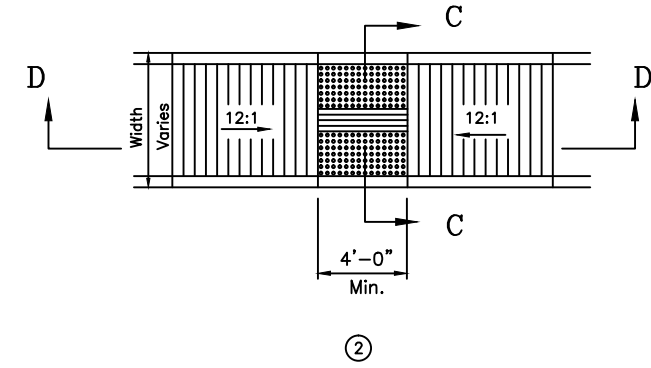
CURB RAMP, TYPE "L"



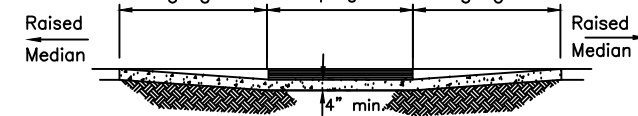
SECTION A-A
CURB RAMP, TYPE "L"



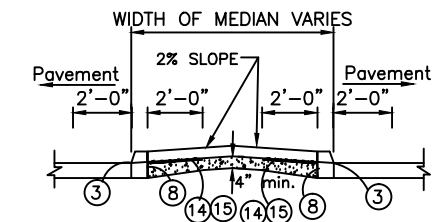
SECTION B-B
CURB RAMP, TYPE "L"



CURB RAMP, TYPE "M"



SECTION D-D
CURB RAMP, TYPE "M"



SECTION C-C
CURB RAMP, TYPE "M"

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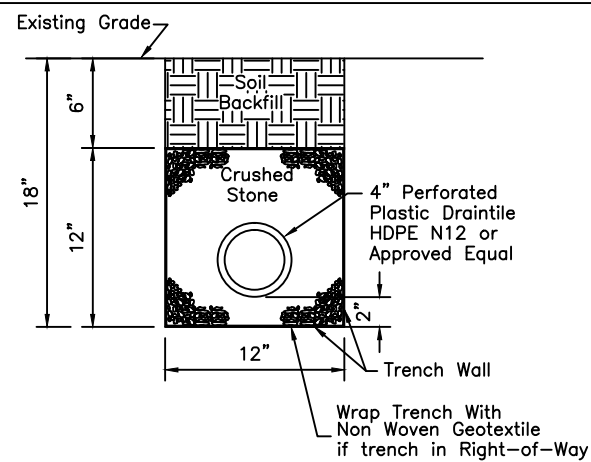


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STANDARD DETAILS FOR STREETS AND CURBS
CURB RAMPS

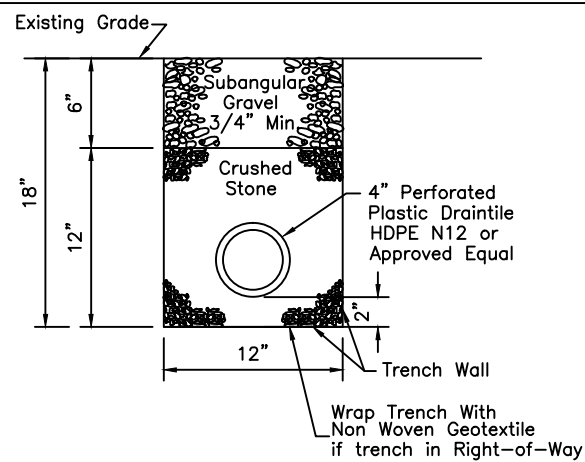
TYPES "L, and M"

ISSUED:
9/01/2013
SHEET 11



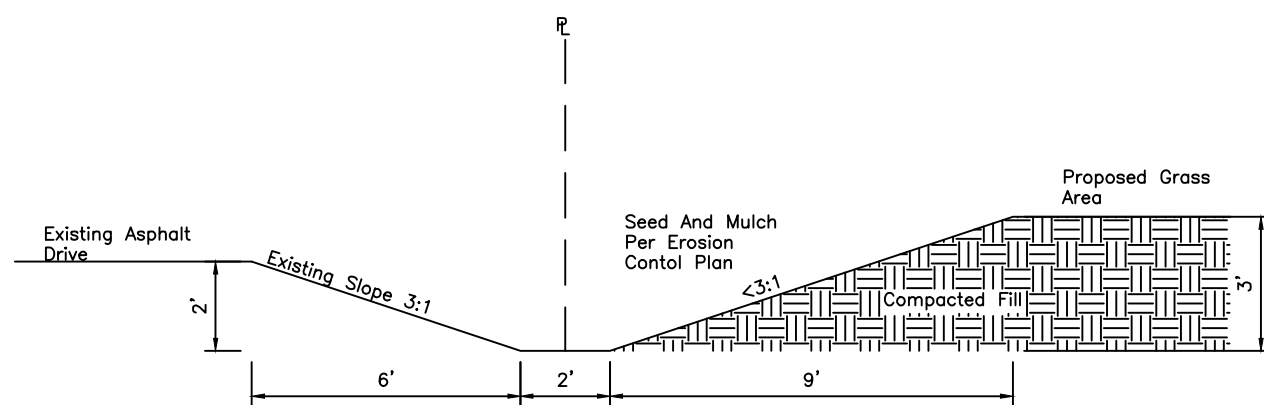
**TYPICAL SUBSURFACE DRAINAGE
CROSS SECTION**

Scale: 1"=1'-0"



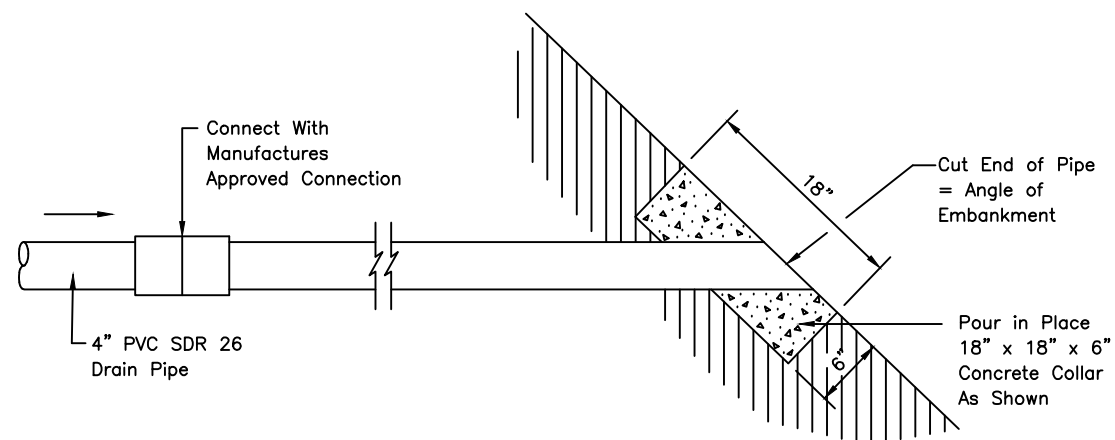
FRENCH DRAIN DETAIL

Scale: 1"=1'-0"



PROPOSED GRASS LINED CHANNEL

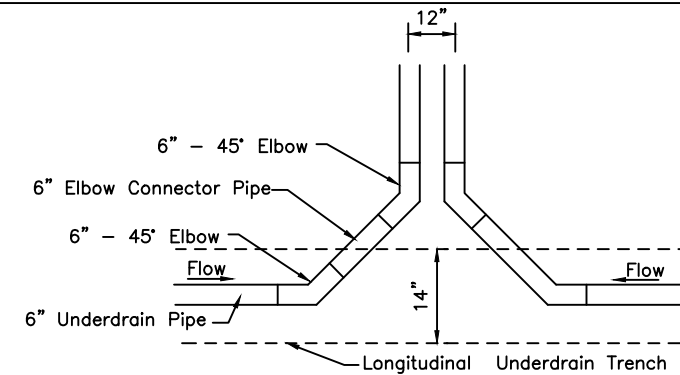
Scale: 1/2"=1'-0"



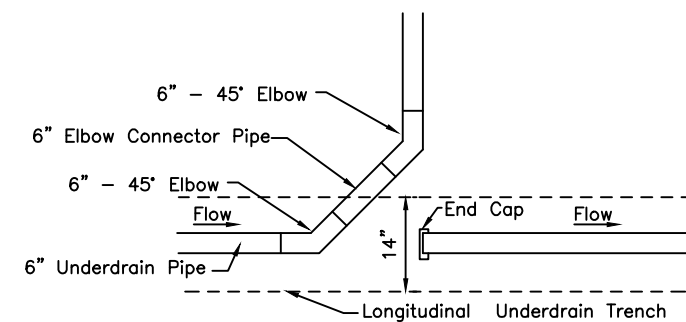
DRAIN OUTFALL

NOTES:

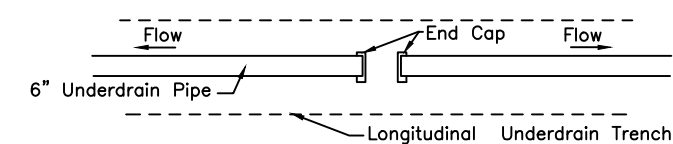
1. Underdrain placement in Right-of-Ways requires 6" pipe and fittings
2. Underdrain placement in Non Right-of-Ways may use 4" pipe and fittings



TWIN OUTLET DETAIL - PLAN VIEW



SINGLE OUTLET DETAIL - PLAN VIEW



PLAN INSTALLATION AT CREST

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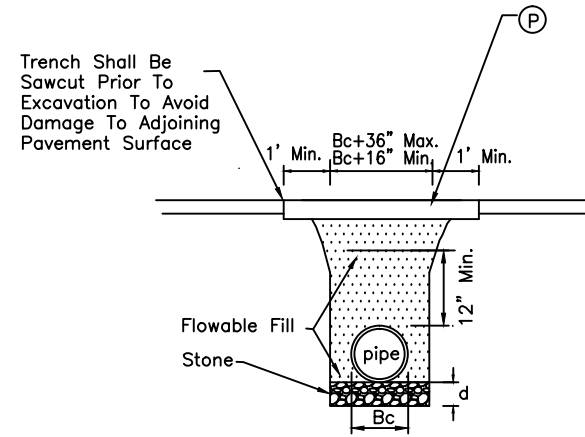
Engineering Dept.
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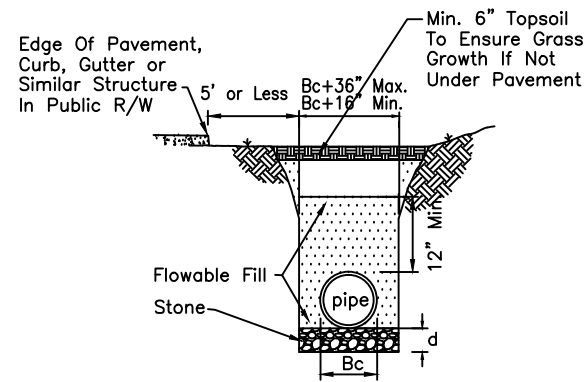
STANDARD DETAILS FOR STREETS AND CURBS

UNDERDRAIN DETAILS

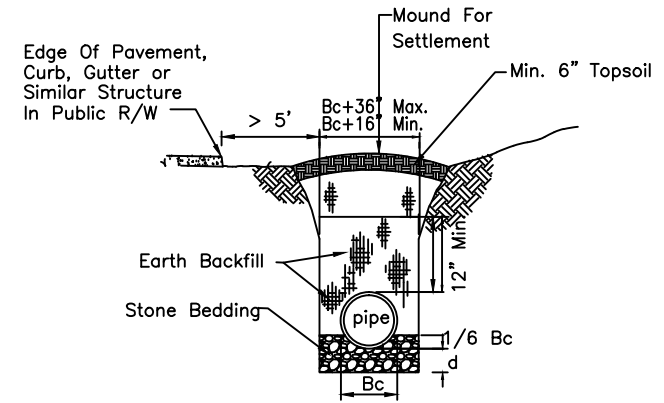
ISSUED:
9/01/2013
SHEET 12



BENEATH PAVEMENT



WITHIN 5' OF
EDGE OF PAVEMENT



GREATER THAN 5' FROM
EDGE OF PAVEMENT

STORM SEWER TRENCH/PIPE BEDDING DETAIL FOR REINFORCED CONCRETE PIPE (RCP)

NOT TO SCALE

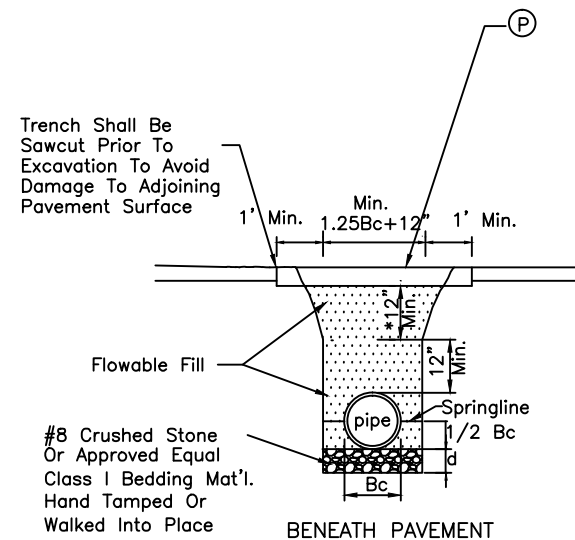
All Bedding & Initial Shall Be Installed
In 6" To 12" Balanced Lifts
A Minimum 9" Of Clearance Shall Be
Provided On Each Side Of Installed Pipe

LEGEND

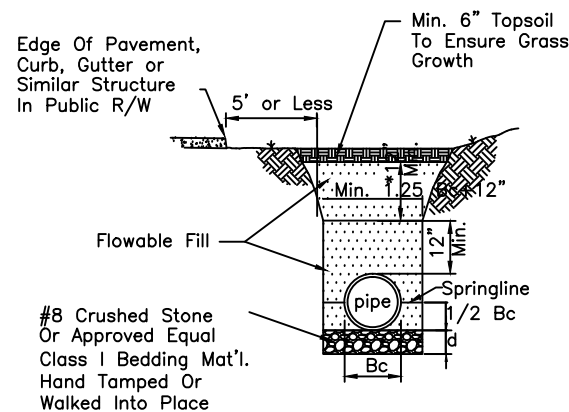
Bc	Outside Diameter
D	Inside Diameter
d	Depth of Bedding Material Below Pipe

Depth of Bedding Material Below Pipe	
D	d
27" & Smaller	4"
30" & Larger	6"

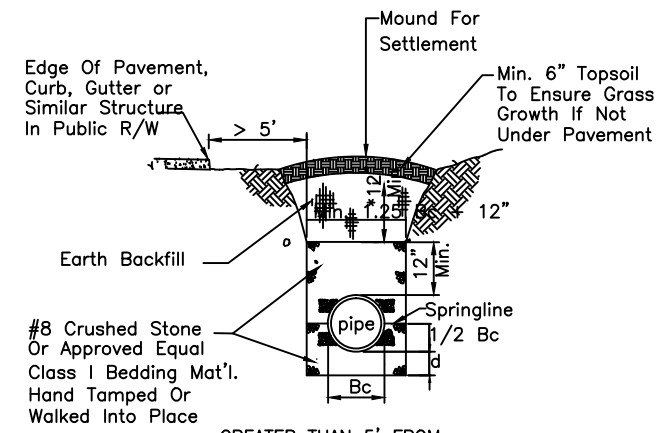
Trench Width $1.25Bc + 12"$ D Minimum 28"	
Bc(outside dia.)	Width
12"	30"
15"	34"
18"	38.5"
24"	46.75"
30"	56"
36"	64"
42"	71.75"
48"	79"
60"	95"



BENEATH PAVEMENT



WITHIN 5' OF
EDGE OF PAVEMENT



GREATER THAN 5' FROM
EDGE OF PAVEMENT

STORM SEWER TRENCH/PIPE BEDDING DETAIL FOR PLASTIC PIPE (PVC & HDPE)

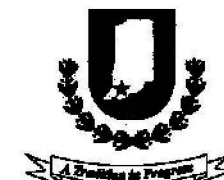
NOT TO SCALE

* or per Manufacturer's Specifications
* precautions must be taken to keep
pipe from floating during installation.

Ⓟ
165#/SYS Surface Type A
275#/SYS Intermediate Type A
Variable Depth Base (Thickness req'd. to match depth of existing pavement.

Concrete Pavement Patching
the thickness of PCCP shall match that of existing concrete pavement, but shall not be less than 6" 4000 PSI with dowels placed at midpoint of PCCP slab spaced at 12" O.C.

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STANDARD DETAILS FOR STREETS AND CURBS	
STORM SEWER BEDDING DETAILS	ISSUED: 9/01/2013 SHEET 13

NOTES

1. Manhole Frame & Cover ASTM A-48, Latest Edition, Class 35 With 24" Diameter Lid.

Traffic Areas: 7" Min. Hgt. 365# Min. Wgt., Equal to East Jordan 1020-3 Heavy Duty Cover, Machined Bearing Surface & Concealed Lift Holes. (Set Lid Flush With Finished Street Surface).

Non-Traffic Areas: 4" or 7" Hgt. 255# Min. Wgt., Equal to East Jordan 1020-1 With Heavy Duty Cover, Machined Bearing Surface & Concealed Lift Holes. Set Top 2" Above Grade (After Earth Settlement).

2. Minimum of Two (Maximum 16") of Concrete Grading Rings. (Seal Between Casting and each Ring With 1 1/4" Preformed Butyl Rubber Base Flexible Gasket Meeting Fed. Spec. SS-S-210A. Minimum Size 3/4".

3. Precast Cone Section ASTM C-478, 4000 P.S.I. Concrete.

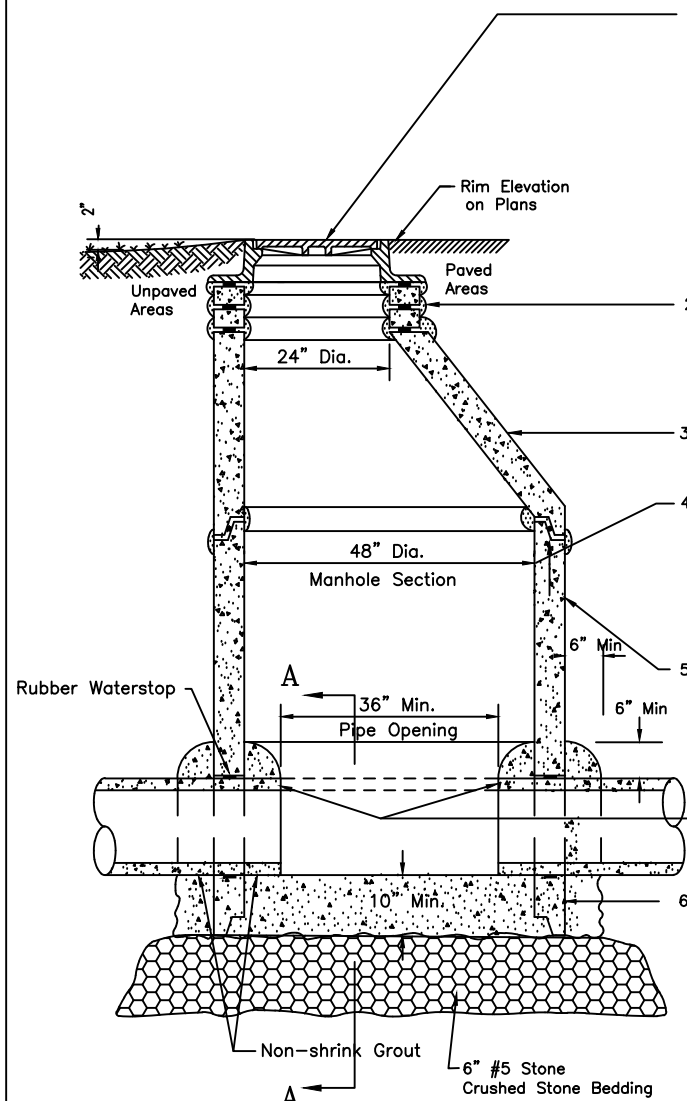
4. Joints: O-ring or Profile Rubber Gasket Joint In accordance with ASTM C-443 A Joint Wrap shall Be Req'd on exterior.

5. Precast Riser Section ASTM C-478, 4000 P.S.I. Concrete.

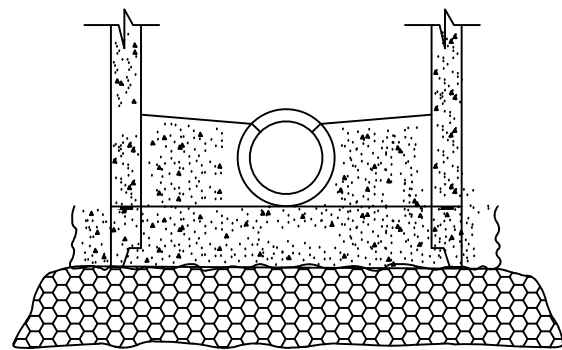
6. Poured Concrete Base Section 3500 P.S.I. Conc. With Smooth Invert Channels Accurately Shaped to a Depth Equal to 3/4 of the Inside Dia. of Sewer Pipe. Manhole Shelf to Slope Towards Channels at 1:12. Pipe to be Cast Into Poured Base Using a Rubber Gasket Water Stop.

on Pipes 36" or Larger, Where Practical, the Storm Pipe May be Ran Through the Manhole and the Through Can Serve as Pipe Itself Acts as the Flowline. The Access Hole Broken Out of the Top Shall Be Clean and Meet the 36" Min. Pipe Opening Shown. Areas Beyond the Knockout and Between the Pipe and Manhole Shall be filled with concrete to form shelf on Pipes 30" or Smaller Pipe Must Start & Stop, No Knockout in Top of Continuous Pipe Will be Allowed.

Note: For all new construction, all piping must be discontinued through Manhole as shown above.



STORM MANHOLE OVER EXISTING PIPE



SECTION A-A For Construction Over Existing Pipes Only

NOTES

1. Manhole Frame & Cover: ASTM A-48, Latest Edition, Class 35 with 24" Diameter Frame.

TRAFFIC AREAS: 7" Min. Hgt. 365# Min. Wgt., Equal To East Jordan 1020-3 Heavy Duty Cover, Machined Bearing Surface & Concealed Lift Holes. (Set Lid Flush With Finished Street Surface).

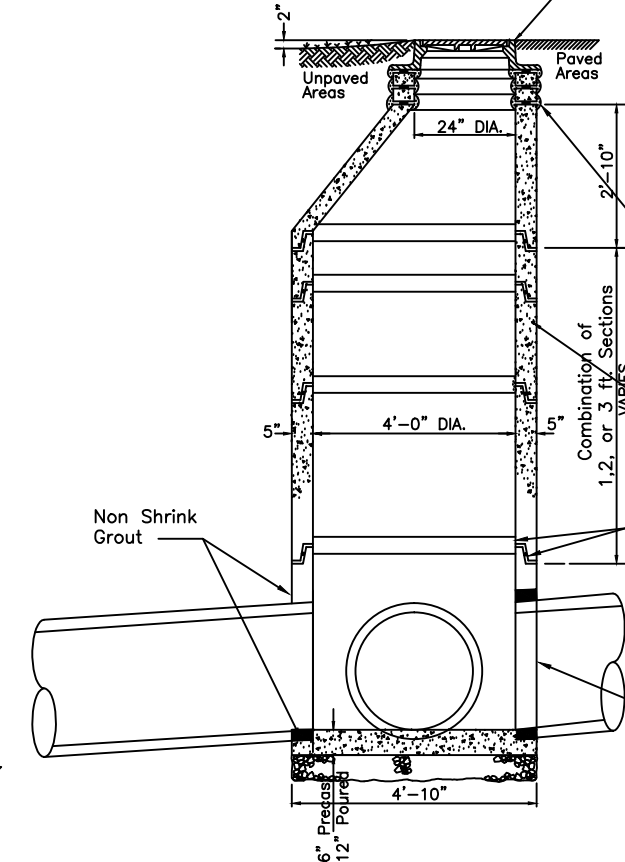
NON-TRAFFIC AREAS: 4" or 7" hgt. 255# Min. Wgt., Equal To East Jordan 1020-1 With Heavy Duty Cover, Machined Bearing Surface & Concealed Lift Holes. Set Top 2" Above Grade (after earth settlement).

2. Minimum of Two (Maximum 16") Of Concrete Grading Rings. (Seal Between Casting And Each Ring With 1 1/4" Preformed Butyl Rubber Base Flexible Gasket Meeting Fed. Spec. SS-S-210A. Minimum Size 3/4".

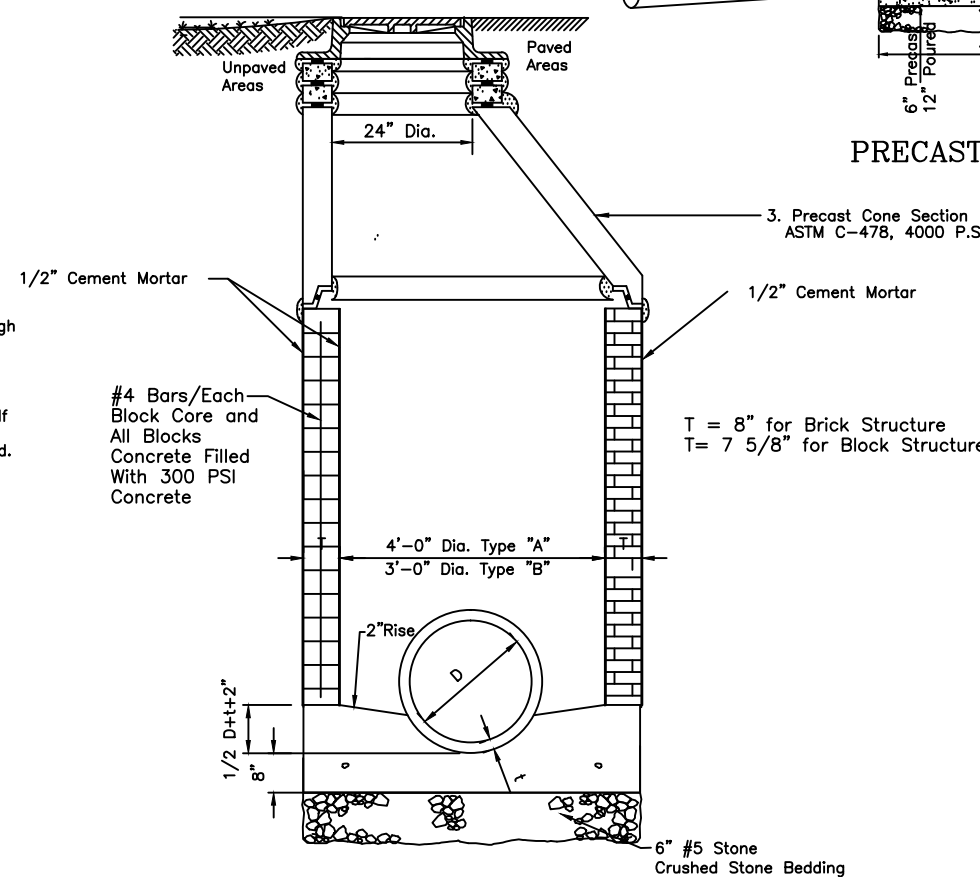
3. Precast Cone And Riser Sections ASTM C-478, 4000 P.S.I. Concrete.

4. Joints: O-ring or Profile Rubber Gasket Joint In accordance with ASTM C-443 A Joint Wrap shall Be Req'd. on Exterior.

5. Precast Base Section having a base barrel section cast with base to a point above top of pipe



PRECAST CONC. MANHOLE TYPE C-4



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STANDARD DETAILS FOR STREETS AND CURBS

STORM MANHOLES

ISSUED:
9/01/2013
SHEET 14

NOTES

1. Manhole Frame & Cover:
ASTM A-48, Latest Edition, Class 35 with 24" Diameter Frame.

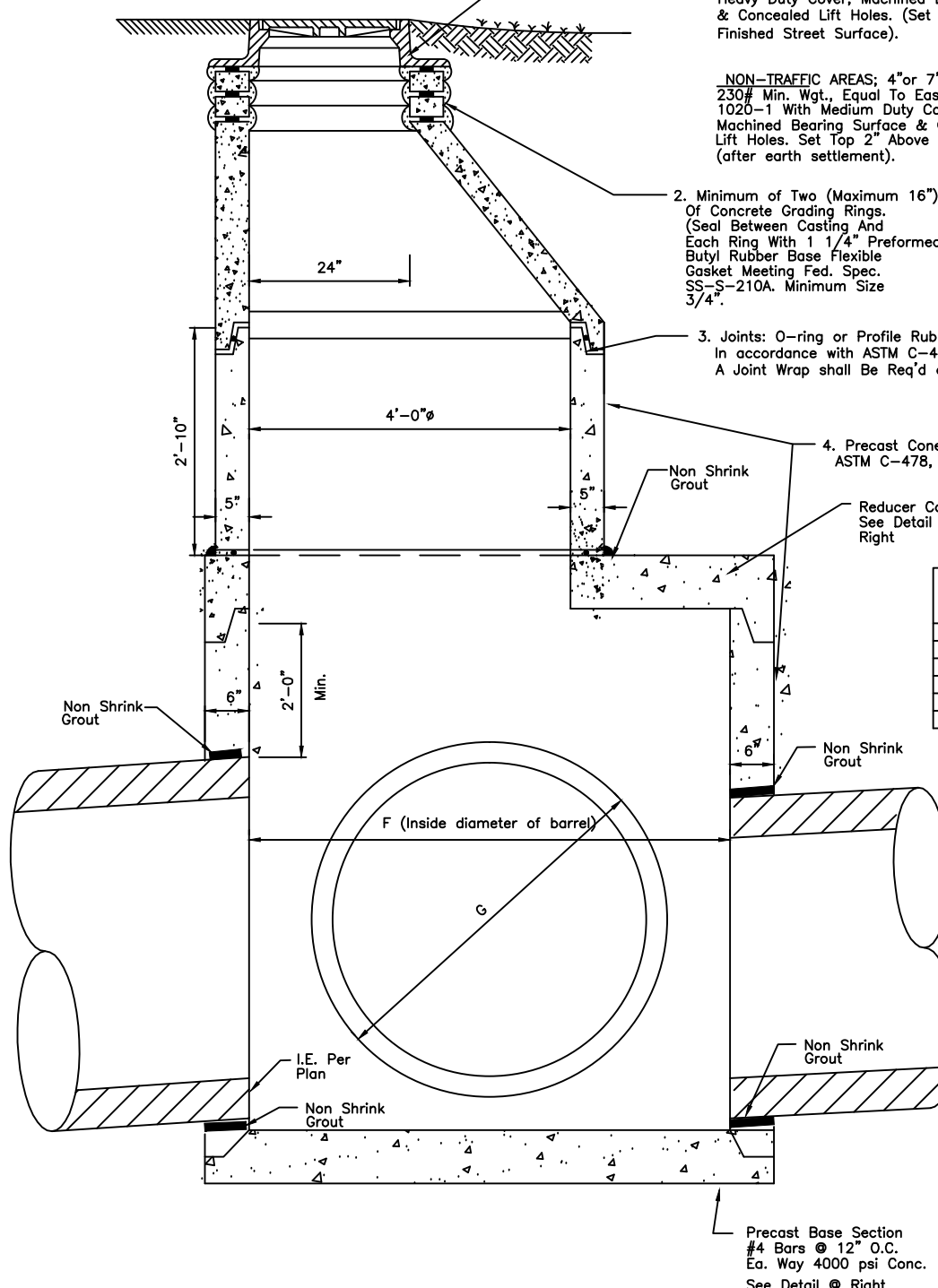
Traffic Areas: 7" Min. Hgt. 365# Min. Wgt., Equal to East Jordan 1020-3 Heavy Duty Cover, Machined Bearing Surface & Concealed Lift Holes. (Set Lid Flush With Finished Street Surface).

NON-TRAFFIC AREAS; 4" or 7" hgt. 230# Min. Wgt., Equal To East Jordan 1020-1 With Medium Duty Cover, Machined Bearing Surface & Concealed Lift Holes. Set Top 2" Above Grade (after earth settlement).

2. Minimum of Two (Maximum 16") Of Concrete Grading Rings. (Seal Between Casting And Each Ring With 1 1/4" Preformed Butyl Rubber Base Flexible Gasket Meeting Fed. Spec. SS-S-210A. Minimum Size 3/4".

3. Joints: O-ring or Profile Rubber Gasket Joint In accordance with ASTM C-443 A Joint Wrap shall Be Req'd on exterior.

4. Precast Cone And Riser Sections ASTM C-478, 4000 P.S.I. Concrete.

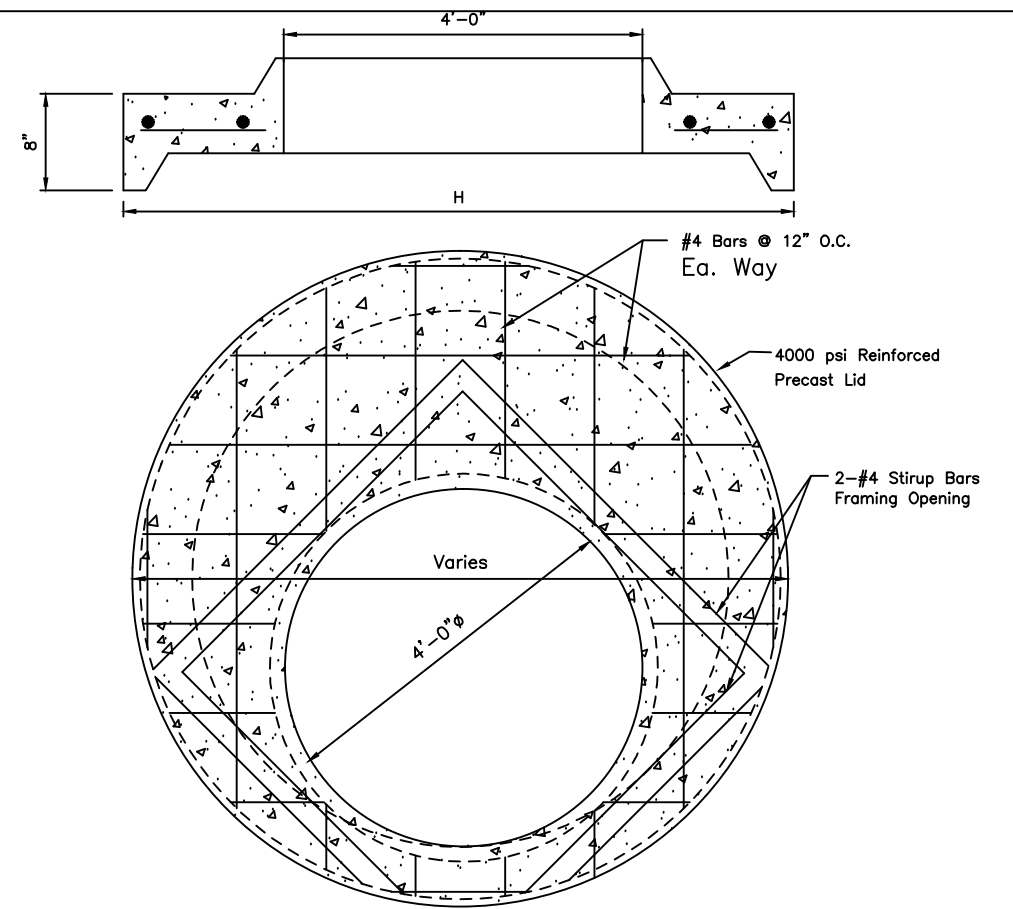


MANHOLE

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

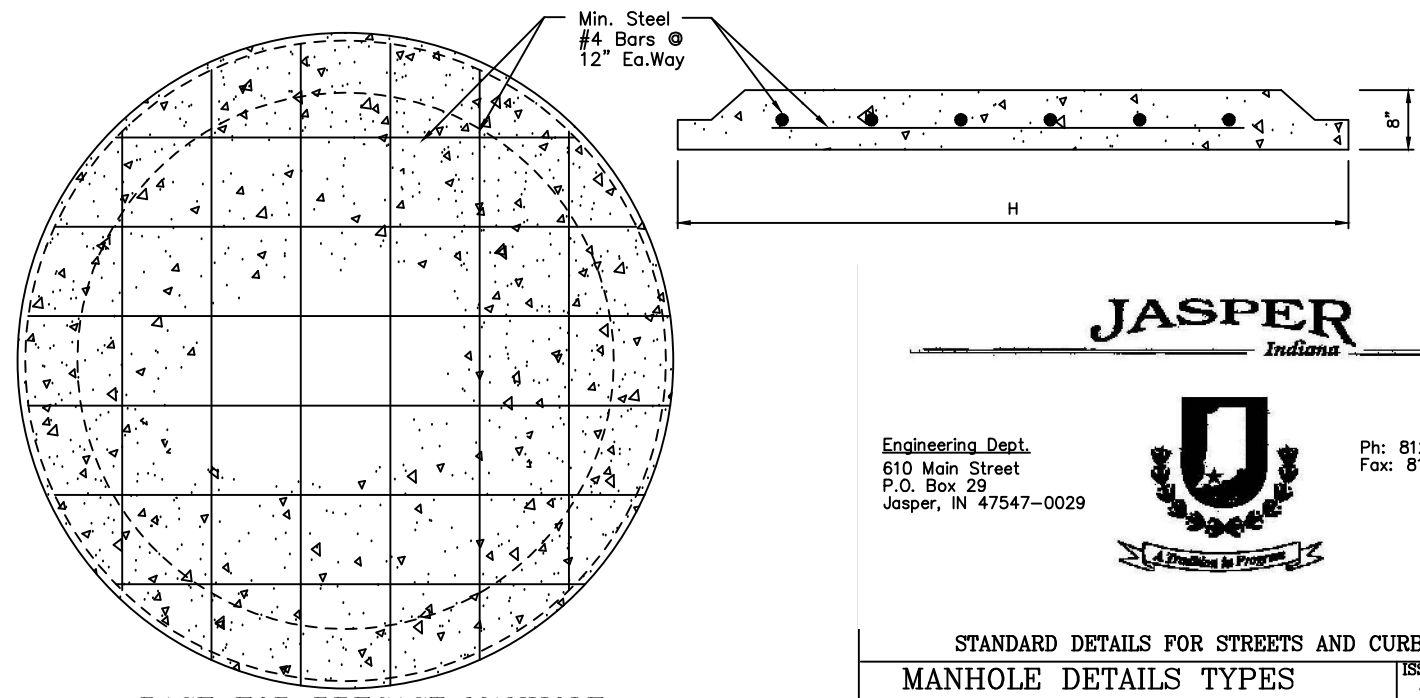
MANHOLE PIPE SIZES

Type	G (In.)	F (Ft. In.)	H (Ft. In.)	Maximum Pipe Size To Mainline (In.)	Maximum Pipe Size For Mainline (In.)
H	26 to 36	---	---	30	36
J	24 to 36	5'-0"	6'-0"	30	36
K	36 to 48	6'-0"	7'-2"	36	48
L	48 to 54	8'-0"	9'-0"	48	54
M	54 to 72	8'-6"	10'-0"	66	72
N	72 to 84	9'-0"	10'-8"	72	84



REDUCER CAP FOR PRECAST MANHOLE

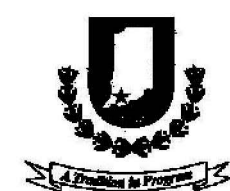
Scale: 1/2" = 1'-0"



BASE FOR PRECAST MANHOLE

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

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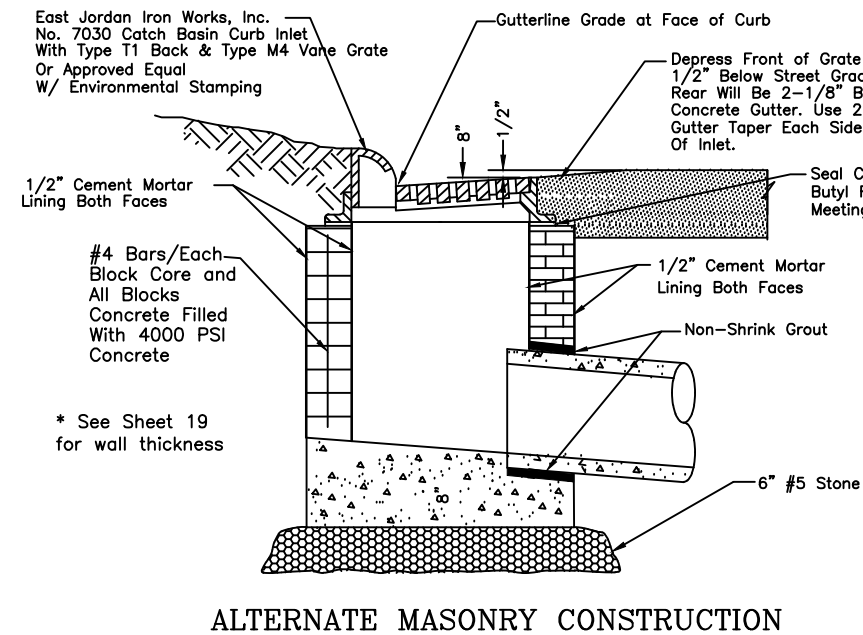
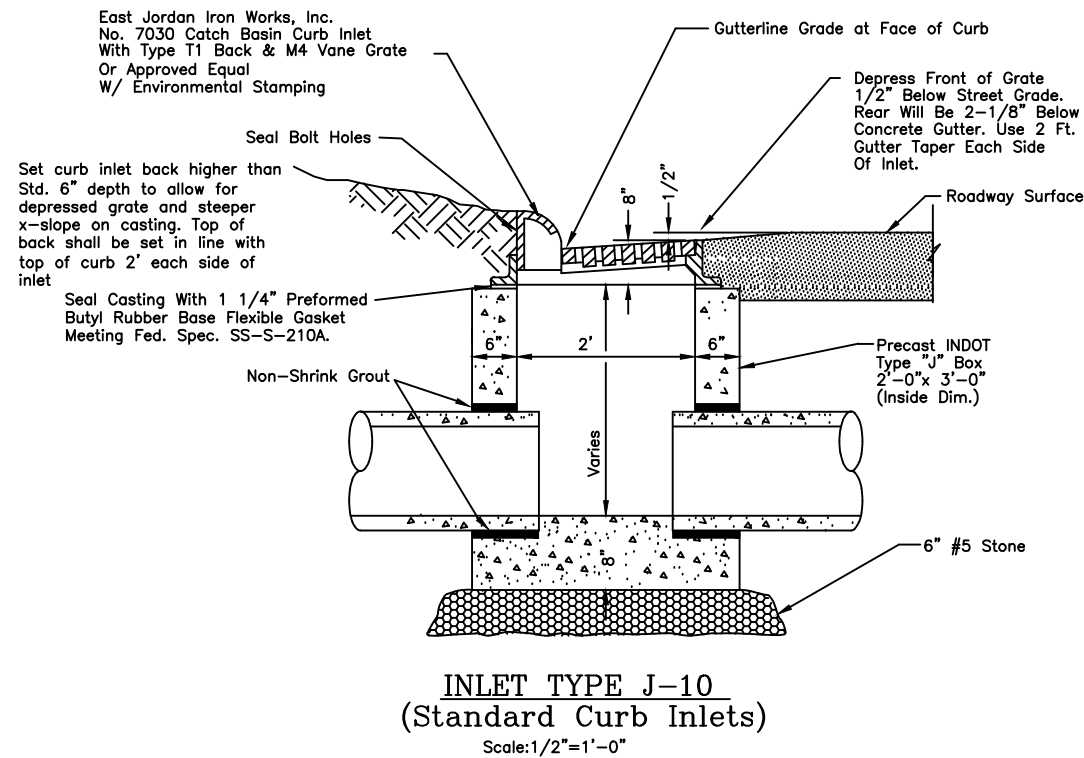
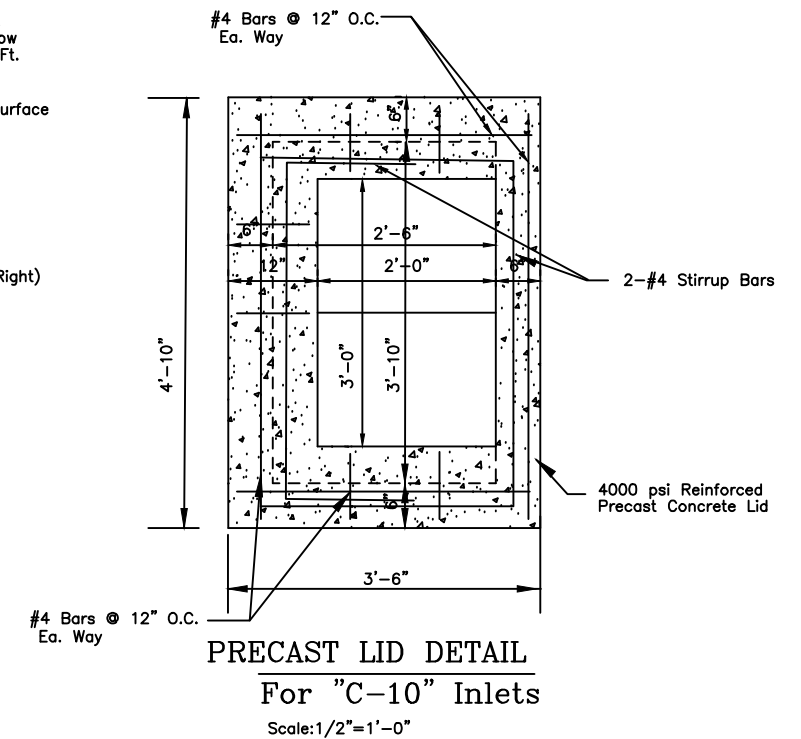
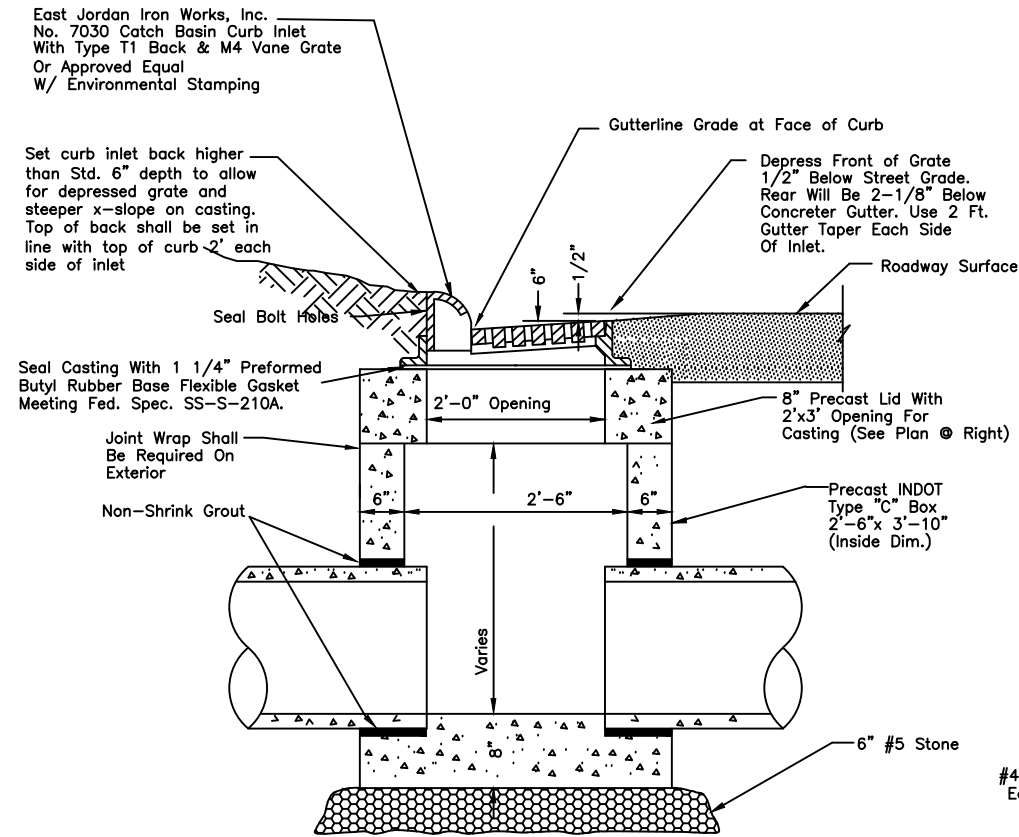
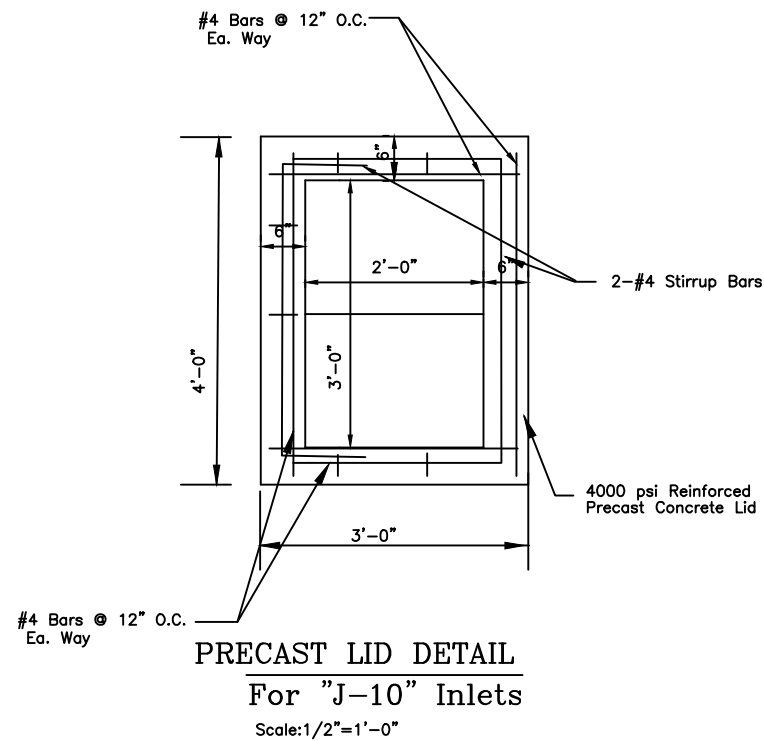
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STANDARD DETAILS FOR STREETS AND CURBS

MANHOLE DETAILS TYPES

H, J, K, L, M, AND N

ISSUED:
9/01/2013
SHEET 15

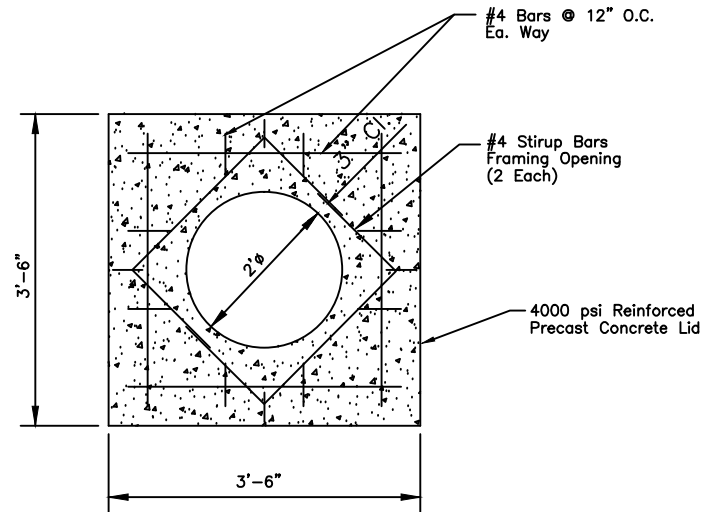


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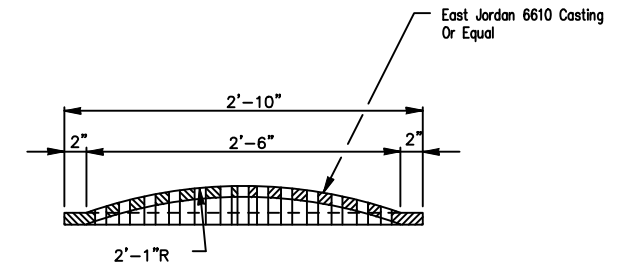
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Fax: 812-482-7852

STANDARD DETAILS FOR STREETS AND CURBS	
CURB INLET DETAILS	ISSUED: 9/01/2013 SHEET 16

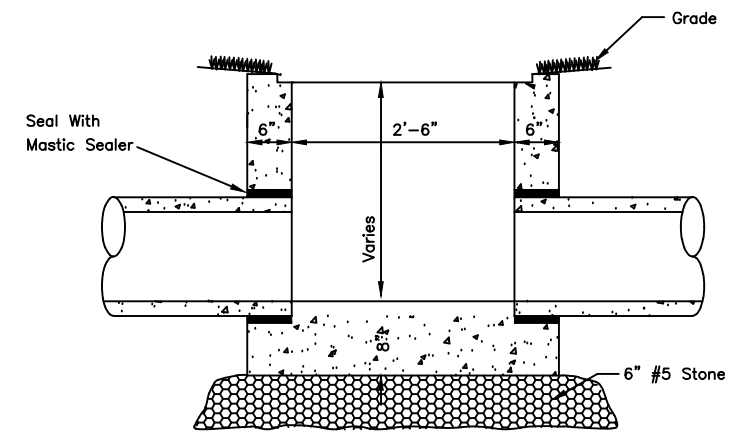


LID DETAIL
For "E" Boxes

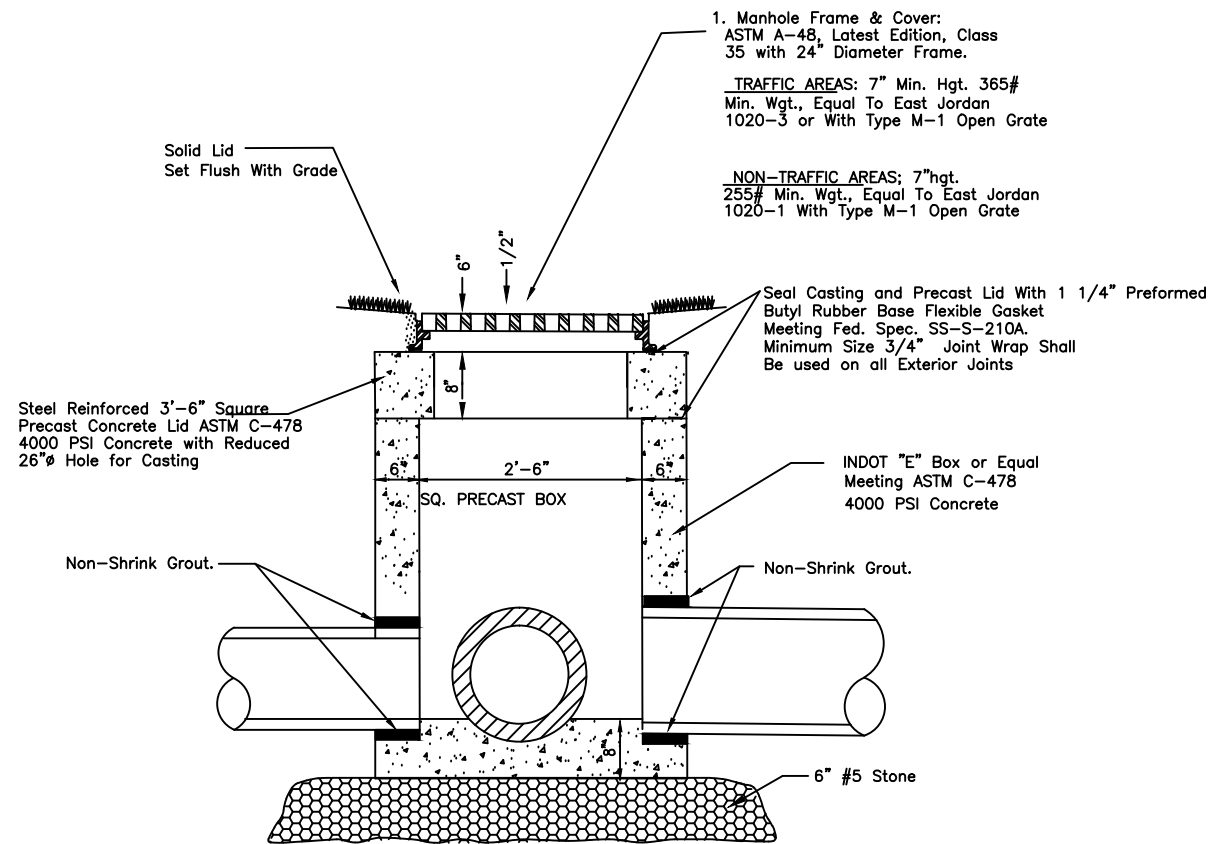
Note: For shallower applications, reducing lid can be eliminated if larger EJ 8313, square casting is used.
For junction box use EJ 1022-3 frame with heavy duty cover.



TYPE 7 CASTING



INLET TYPE E-7 DETAIL
Scale: 1"=2'-0"



INLET/JUNCTION BOX TYPE E-4
Scale: 1/2"=1'-0"

NOTE:
East Jordan Irons Works 6221 grate or approved equivalent must be installed in Front Yard and adjacent to street.

NOTE:
East Jordan Irons Works 6489 ditch grate or approved equivalent must be installed in Side and Rear Yard

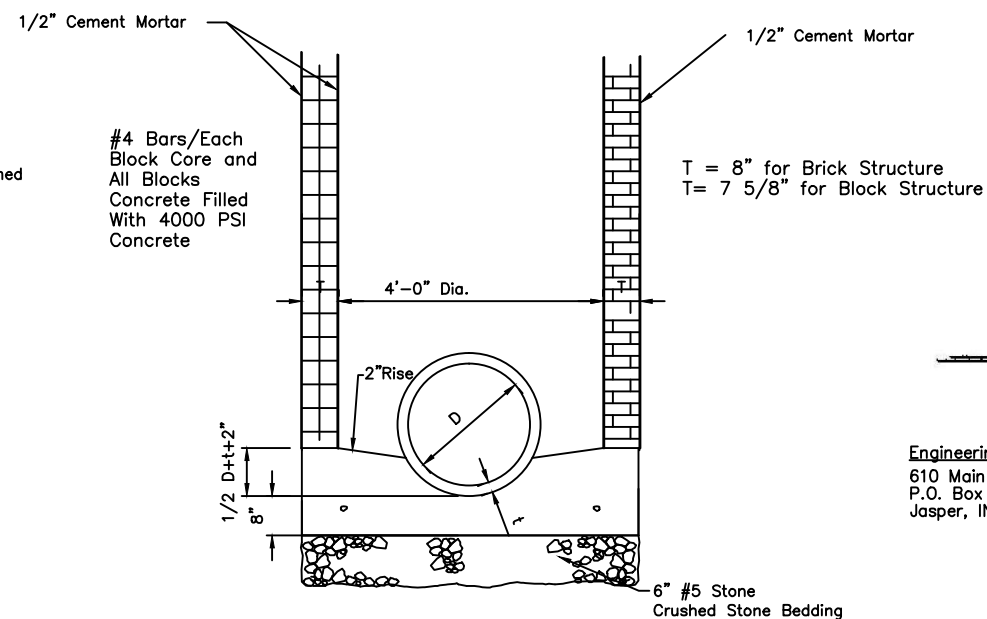
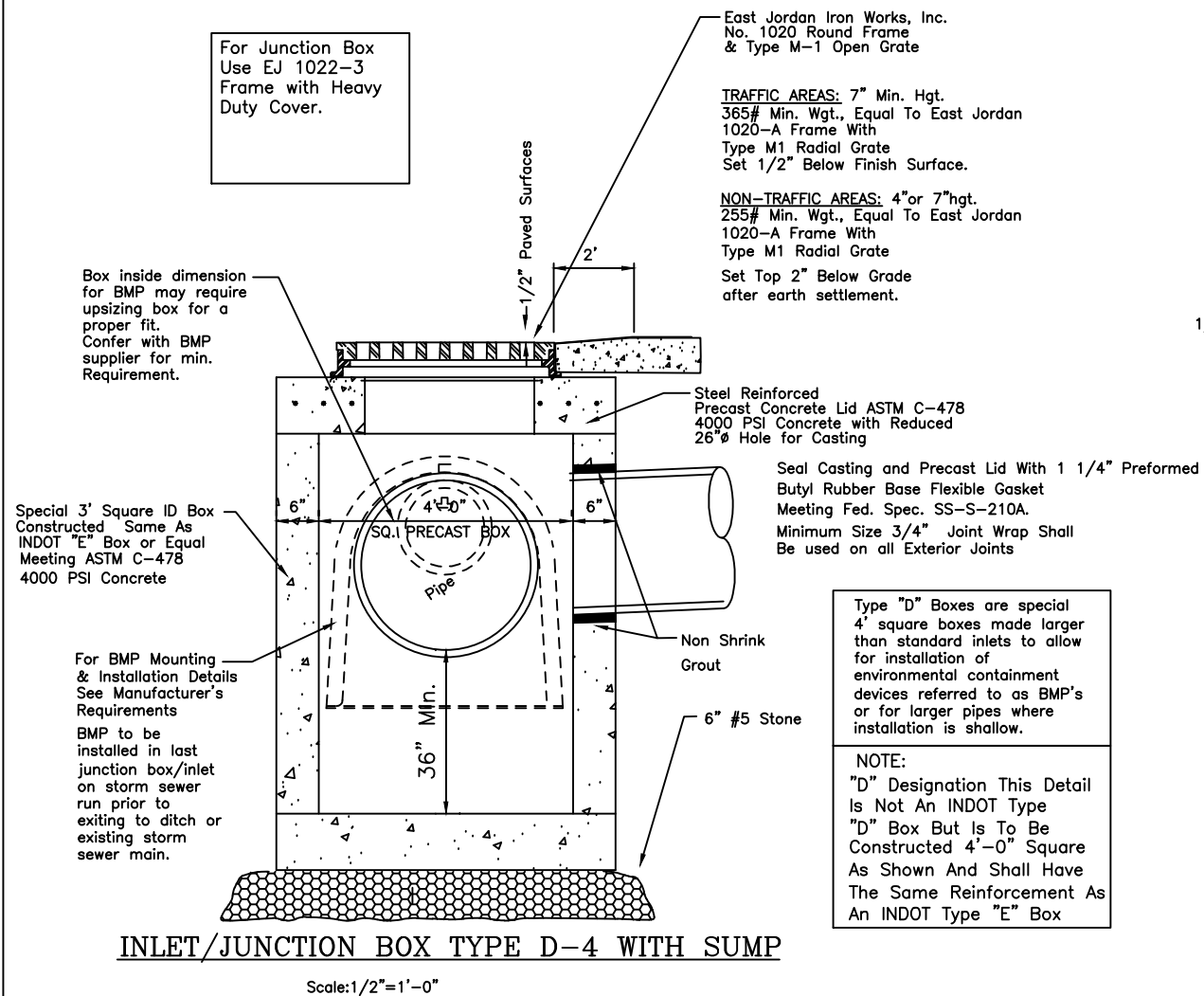
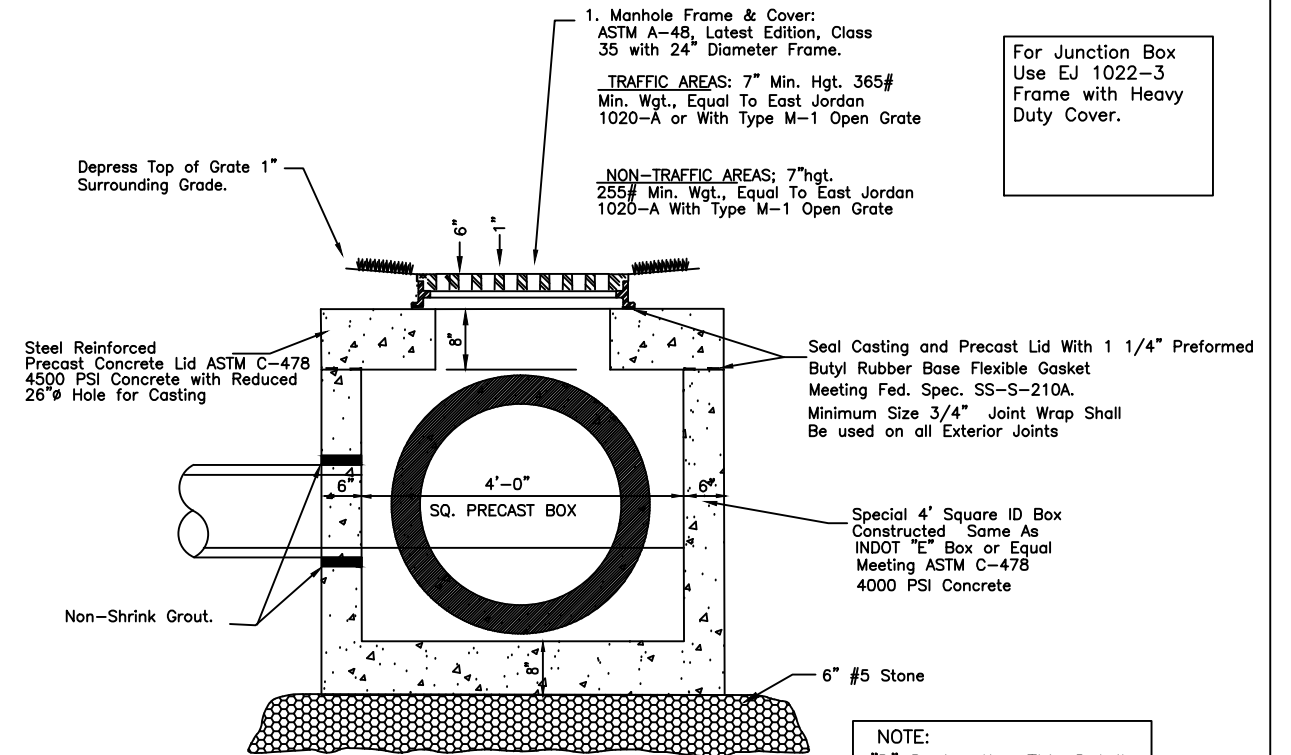
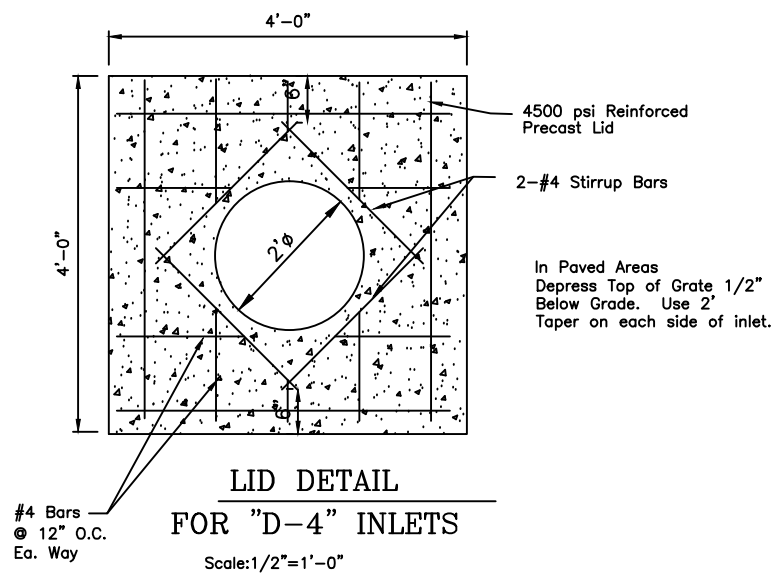
NOTE:
Approved plastic or rubber risers can be used. Maximum height of riser not to exceed 12"

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STANDARD DETAILS FOR STREETS AND CURBS	
DITCH INLET DETAILS	ISSUED: 9/01/2013 SHEET 18



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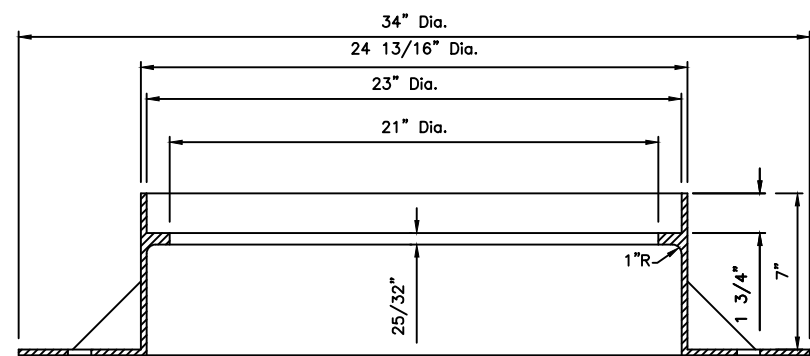
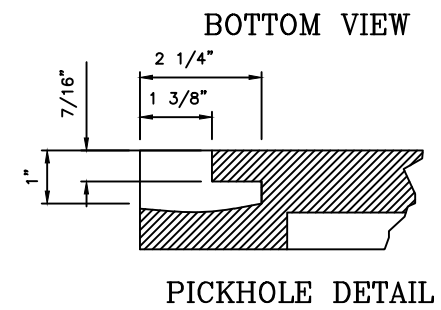
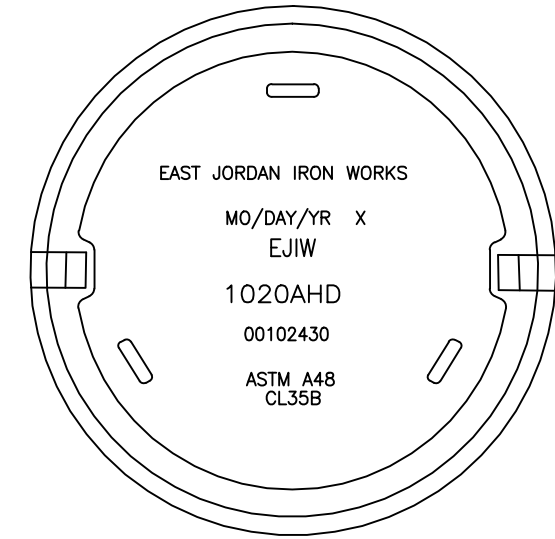
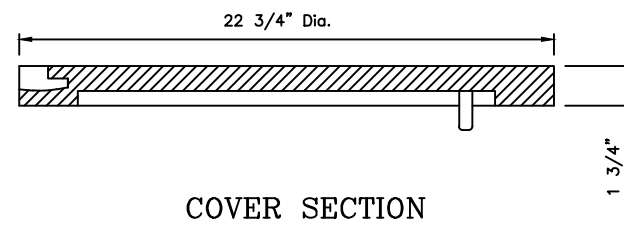
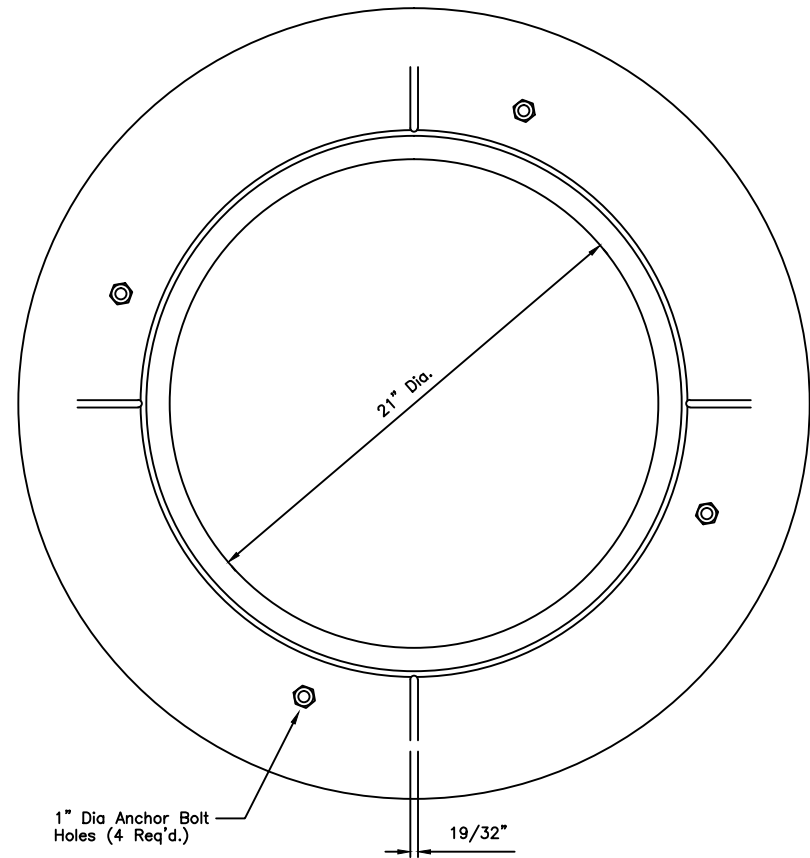
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ALTERNATE MASONRY CONSTRUCTION

STANDARD DETAILS FOR STREETS AND CURBS
SPECIAL STORM INLET/
JUNCTION BOX DETAILS

ISSUED:
9/01/2013
SHEET 9



For Traffic Areas: 7" Min Height.
365# Min. Weight Equal to East Jordan 1020-A Frame with Lid Shown Above.

For Non-Traffic Areas: 4" or 7" Min. Height.
255# Min. Weight Equal to East Jordan 1020-A Frame with Lid Shown Above

* others may be used at approval of the LPA

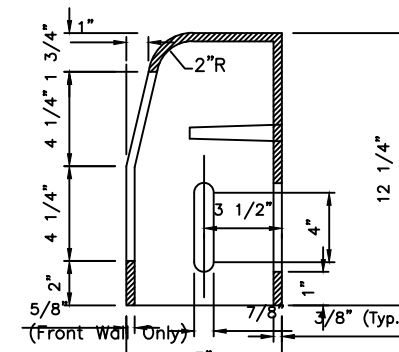
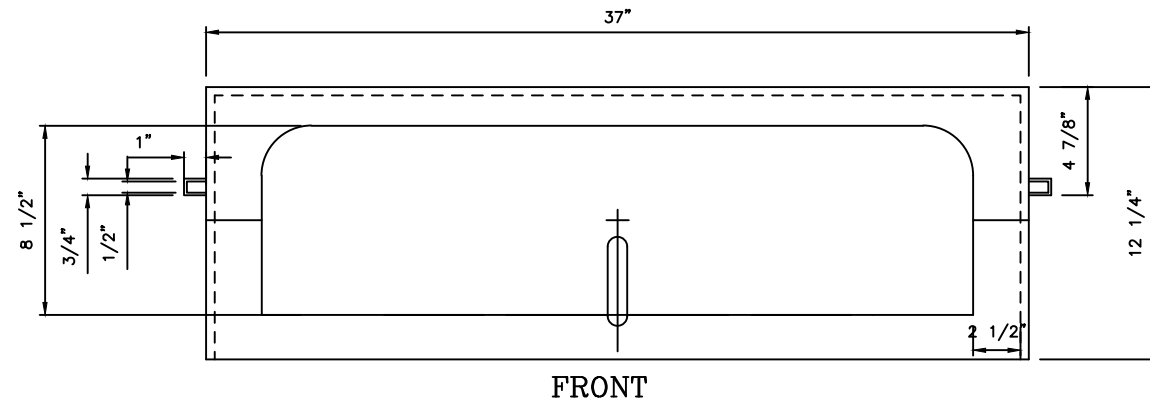
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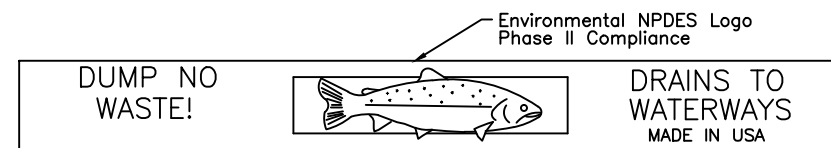
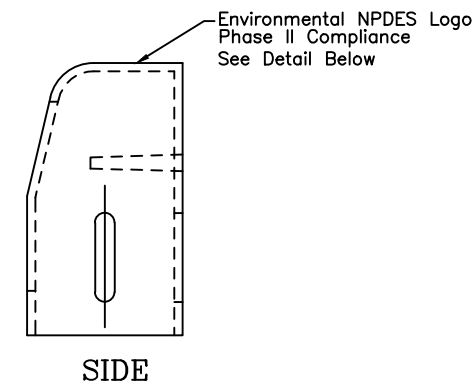
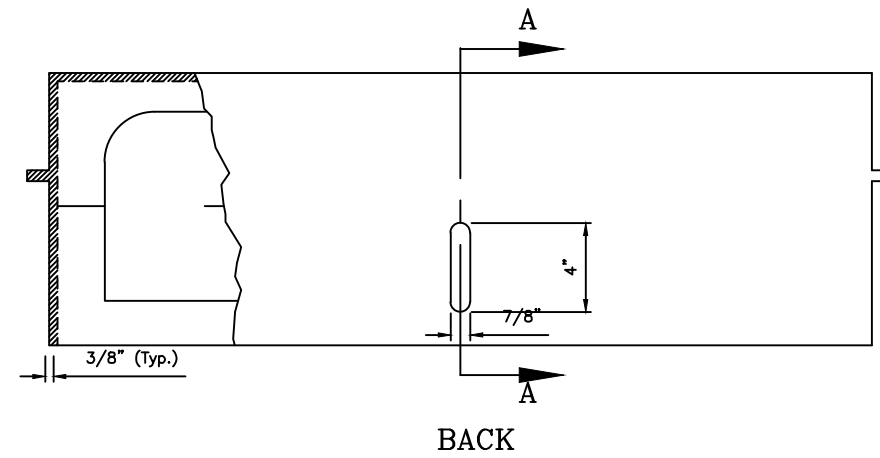
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A Tradition to Progress

STANDARD DETAILS FOR STREETS AND CURBS	
MANHOLE CASTING/ COVER DETAIL	ISSUED: 9/01/2013 SHEET 21



7030 N14 Grate
T-1 Back or Equal



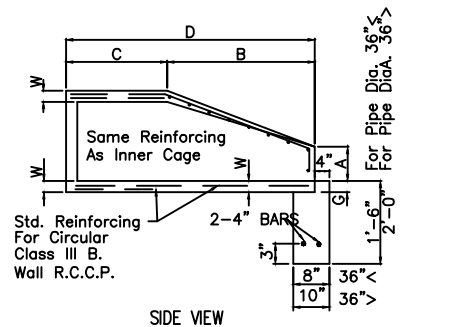
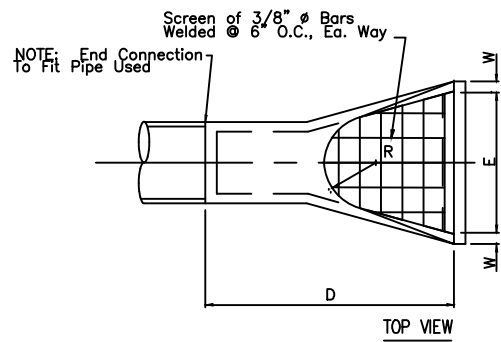
ENVIRONMENTAL STAMPING

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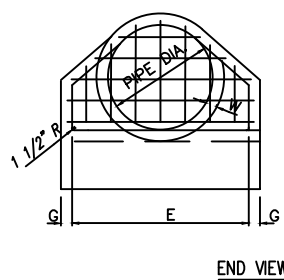
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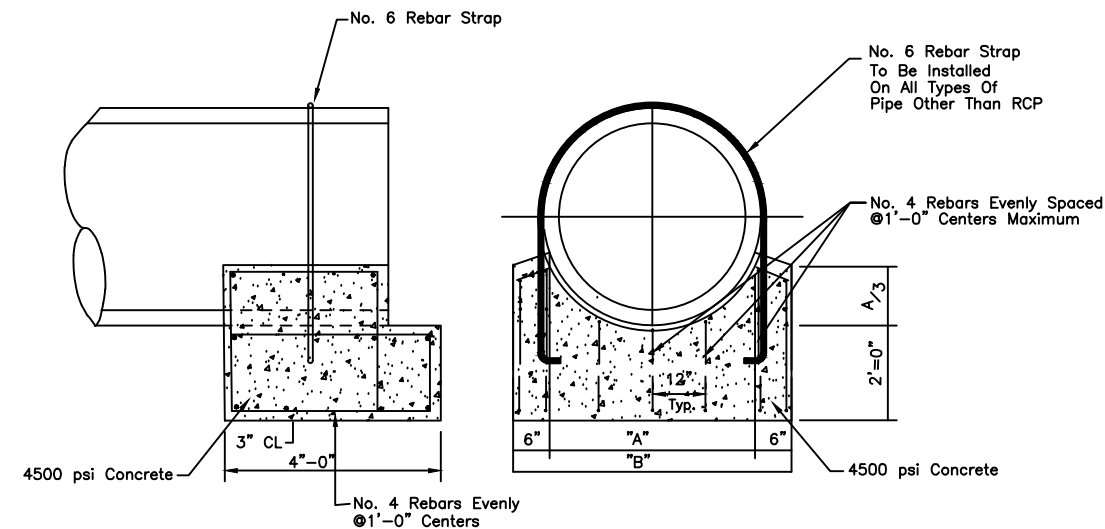
STANDARD DETAILS FOR STREETS AND CURBS	
EJ #7030 OR EQUAL	
CURB INLET TYPE T1 BACK DETAIL W/ENVIRONMENTAL STAMPING	ISSUED: 9/01/2013 SHEET 22



DIMENSIONS										
DIA.	WGT. (LBS)	WALL	A	B	C	D	E	G	R	SLOPE
12"	530	2"	5"	1'-10"	4'-3"	6'-1"	2'-0"	2"	9"	2:1
15"	740	2-1/4"	7"	2'-3"	4'-0"	6'-3"	2'-6"	2 1/2"	11"	2:1
18"	990	2-1/2"	11"	2'-1"	4'-1"	6'-2"	3'-0"	2 1/2"	12"	2:1
21"	1280	2-3/4"	11"	2'-9"	3'-6"	6'-3"	3'-6"	2 3/4"	13"	2:1
24"	1520	3"	12"	3'-7"	2'-8"	6'-3"	4'-0"	3"	14"	2:1
30"	2190	3-1/2"	1'-2"	4'-6"	1'-6"	6'-0"	5'-0"	3 1/2"	15"	3:1
36"	4100	4"	1'-3"	5'-2"	2'-9"	8'-1"	6'-0"	4"	20"	3:1

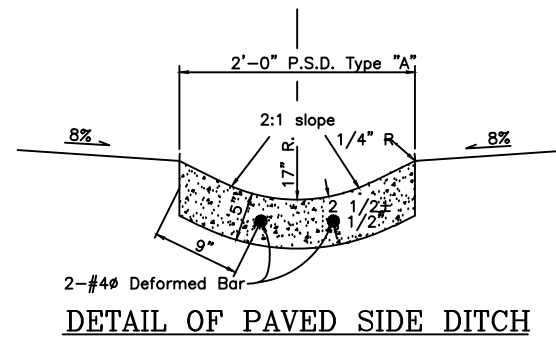


CONCRETE END SECTION DETAIL
NOT TO SCALE

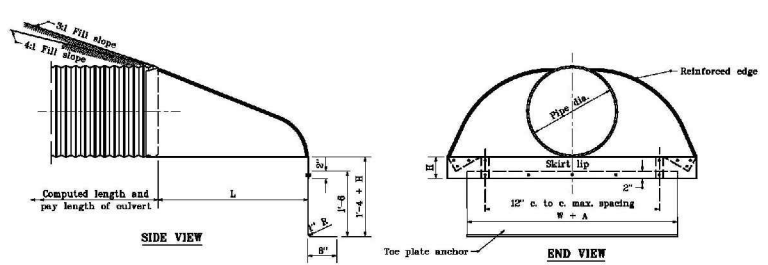
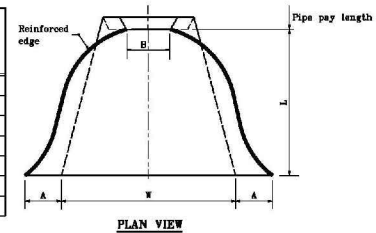


PIPE SIZE	A	B
12"	1.50'	2.5
15"	1.75'	2.75
18"	2.00'	3.00'
24"	2.67'	3.67
36"	3.75'	4.75

PIPE ANCHOR
NOT TO SCALE



PIPE DIA.	END SECTION THICK. (in.)	DIMENSIONS					APPROX. SLOPE	BODY
		A	B	H	L	W		
12	.064	6	6	6	21	34	2 1/2:1	1 Pc.
15	.064	7	8	8	30	50	2 1/2:1	1 Pc.
18	.064	8	10	8	31	36	2 1/2:1	1 Pc.
21	.064	9	12	8	36	42	2 1/2:1	1 Pc.
24	.064	10	13	8	41	48	2 1/2:1	1 Pc.
30	.079	12	16	8	51	60	2 1/2:1	1 Pc.
36	.079	14	19	9	60	72	2 1/2:1	2 Pc.



METAL END SECTION DETAIL
NOT TO SCALE

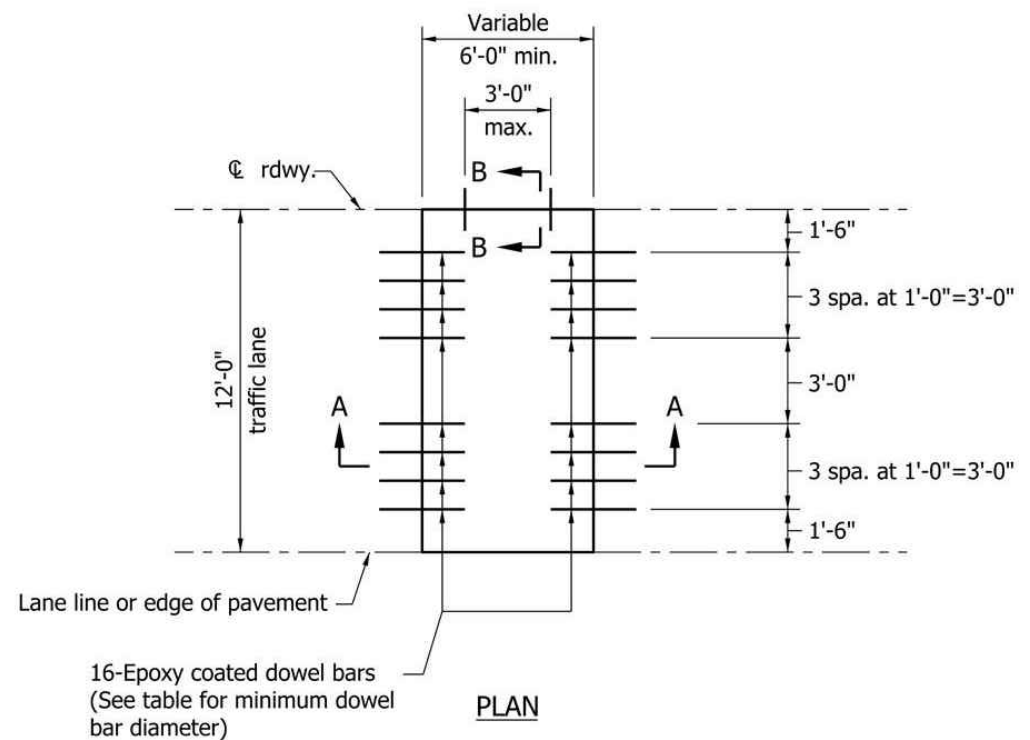
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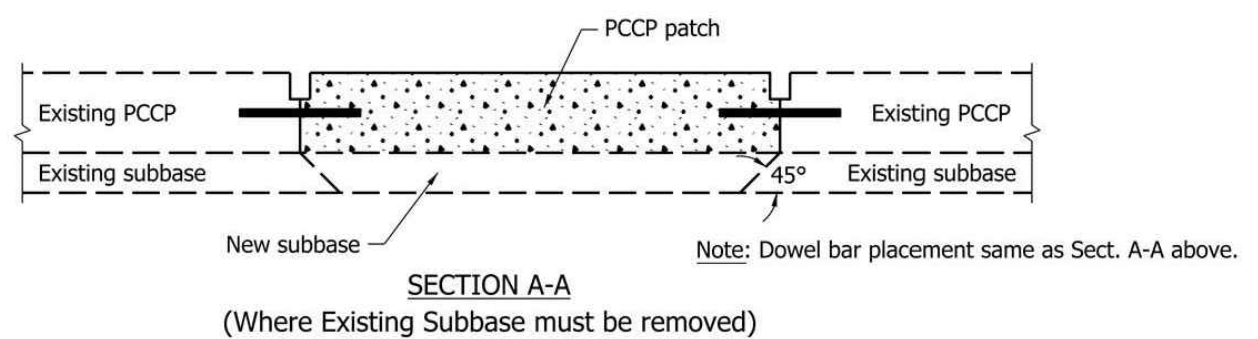
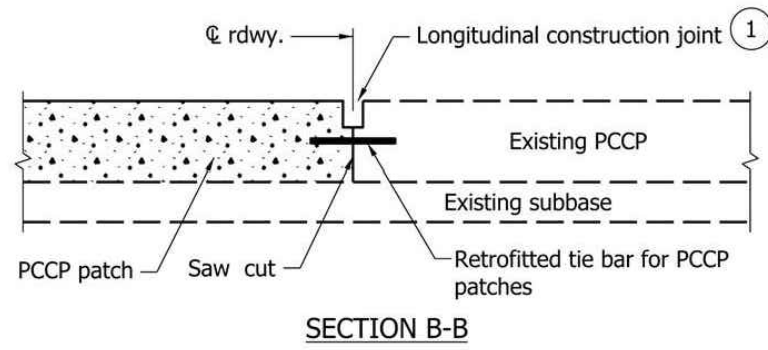
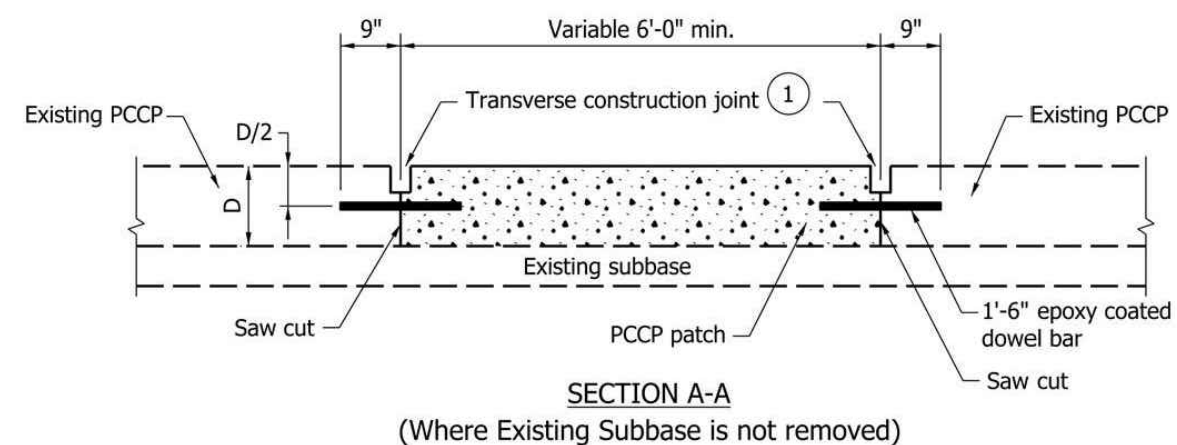
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STANDARD DETAILS FOR STREETS AND CURBS	
STORM SEWER END TREATMENT DETAILS	
ISSUED: 9/01/2013	SHEET 23



DOWEL BAR SIZES	
Pavement Thickness, D	Minimum Dowel Bar Diameter
Less than 9"	1"
9" through 12"	1 1/4"
Greater than 12"	1 1/2"

- NOTES:
- See Standard Drawing E 503-CCPJ-03 for joint seal details.
 - Saw cuts and joint seal shall be omitted if PCCP is to be overlaid.
 - Minimum of 1'-6" horizontal distance between retrofitted tie bar and the nearest D-1 contraction joint within the patch or the end of the patch.
 - Retrofitted tie bars are not to be placed less than 1'-6" from any transverse joint or random crack in an adjacent PCCP lane or PCCP shoulder.
 - See Standard Drawing E 503-CCPJ-08 for retrofit tie bar sizing and spacing.



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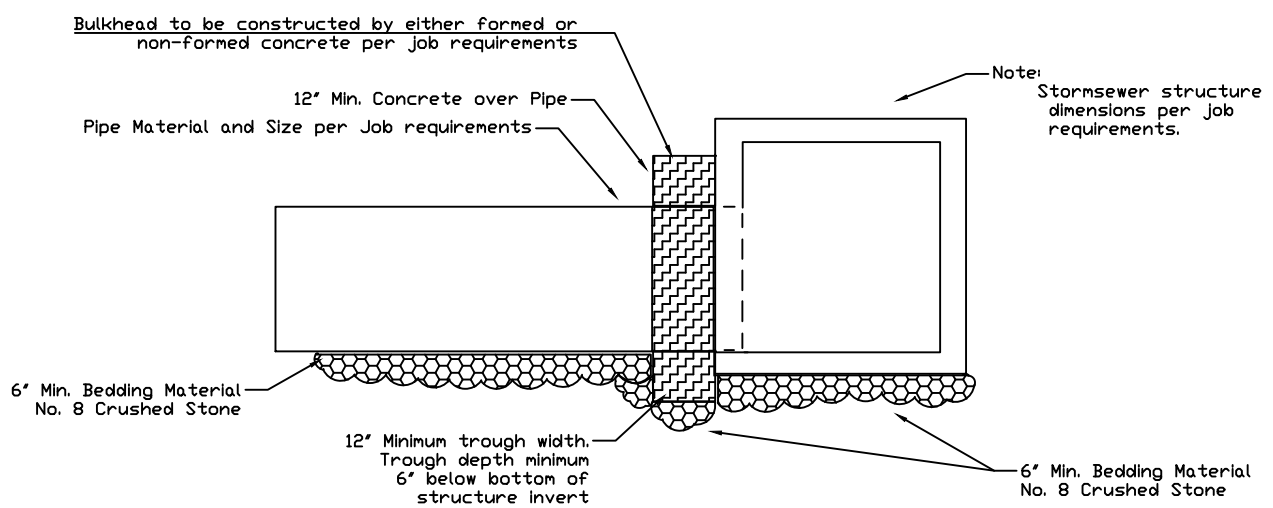
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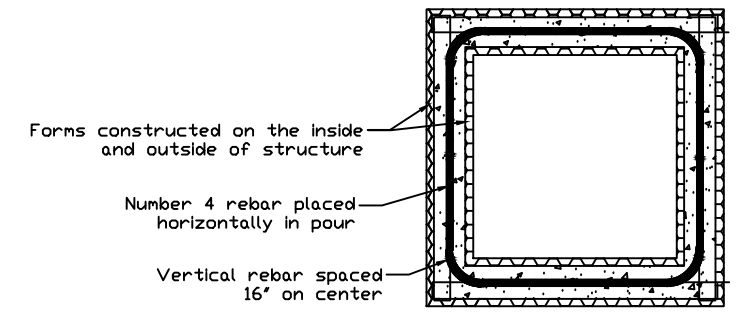
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STANDARD DETAILS FOR STREETS AND CURBS	
Concrete Pavement Patching Details	ISSUED: 9/01/2013
	SHEET 24

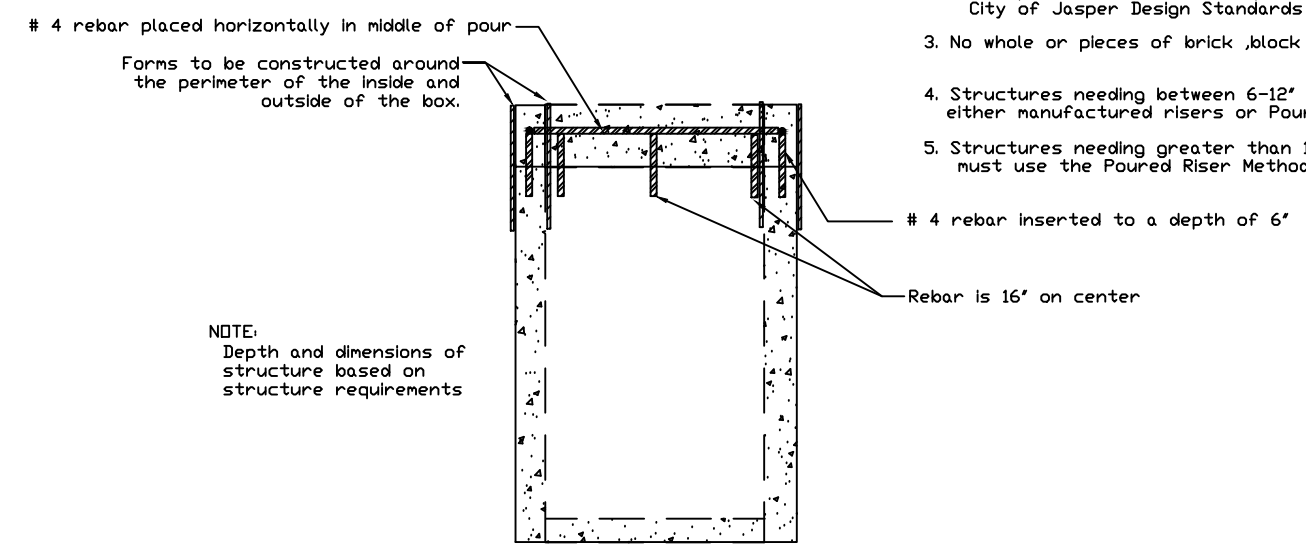
CONCRETE PATCHING DETAILS



BULKHEAD DETAIL
NOT TO SCALE



PLAN VIEW
NOT TO SCALE



ELEVATION VIEW

STRUCTURE RAISED WITH POUR DETAIL
NOT TO SCALE

- NOTES:**
1. Reinforced pre-cast concrete risers with a mastic or tar strip or the use of manufactured poly/plastic risers with tar strip are to be used between the existing structure, riser(s) and the lid or casting.
 2. A poured riser on top of the existing box will require a form to be constructed around the inside and outside perimeter of the existing box. This procedure to be accomplished by method referenced in the City of Jasper Design Standards Manual.
 3. No whole or pieces of brick, block, wood or stone used as shims will be accepted.
 4. Structures needing between 6-12' of rise may use either manufactured risers or Poured Method
 5. Structures needing greater than 12' of rise must use the Poured Riser Method

NOTE:
Depth and dimensions of structure based on structure requirements

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STANDARD DETAILS FOR STREETS AND CURBS	
STORM SEWER SPECIAL STRUCTURE DETAILS	ISSUED: 9/01/2013 SHEET 25