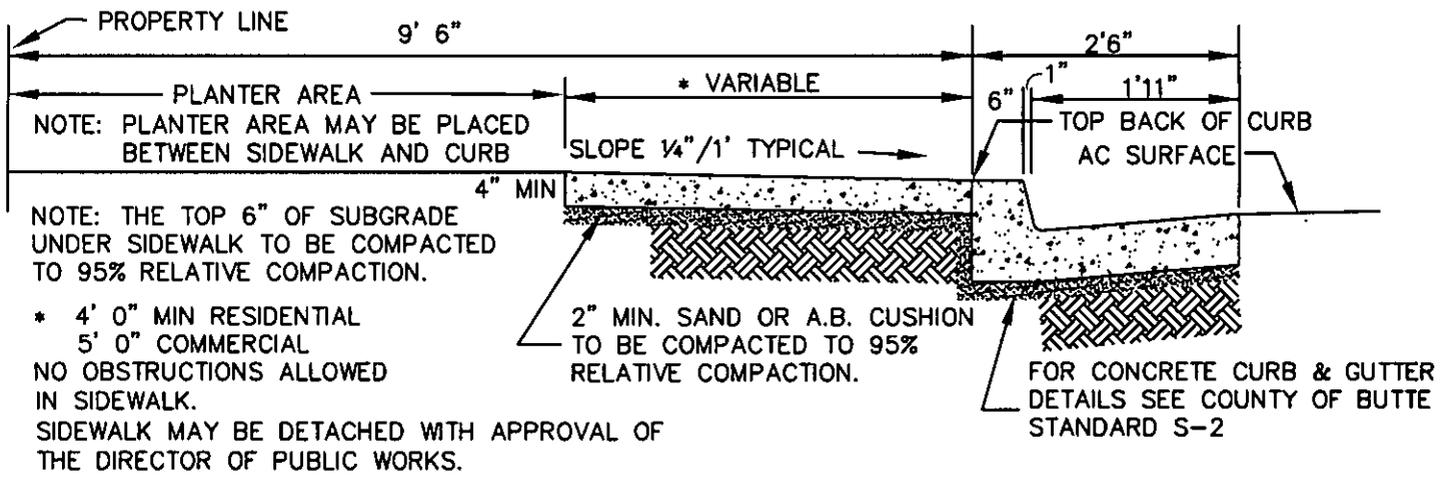


APPENDIX III

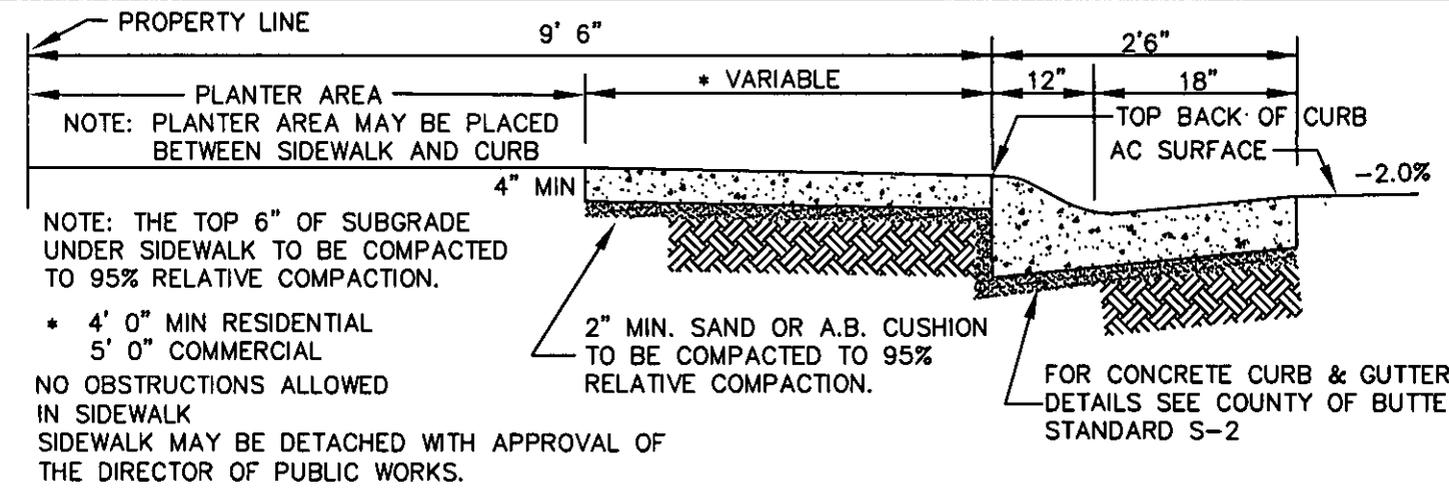
STANDARD DETAILS

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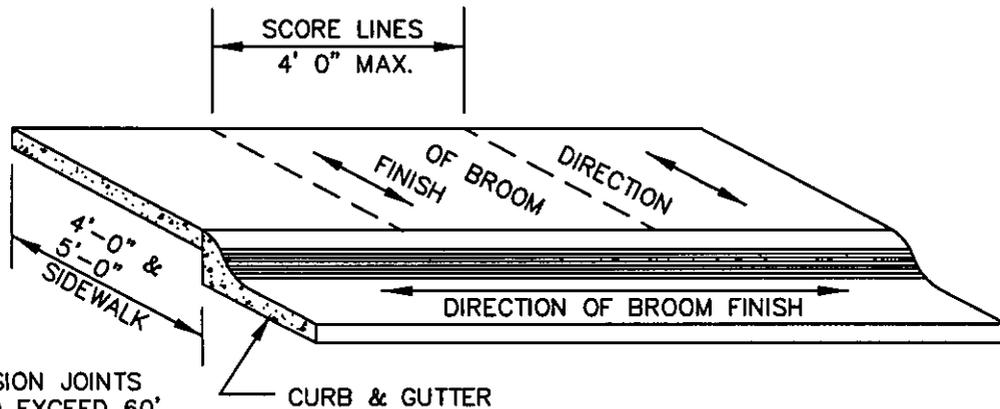
Sacked Concrete Slope Protection with Storm Drain Installation into Channels	S-34
Utility Trench Details	S-35
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SECTION THROUGH STANDARD VERTICAL CONCRETE CURB, GUTTER & SIDEWALK



SECTION THROUGH STANDARD CONCRETE ROLLED CURB, GUTTER & SIDEWALK



NOTE: EXPANSION JOINTS NOT TO EXCEED 60' FEET APART.

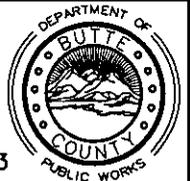
ALL CURB, GUTTER & SIDEWALK SHALL HAVE A LIGHT BROOM FINISH.

SIDEWALK SCORE LINES DETAIL

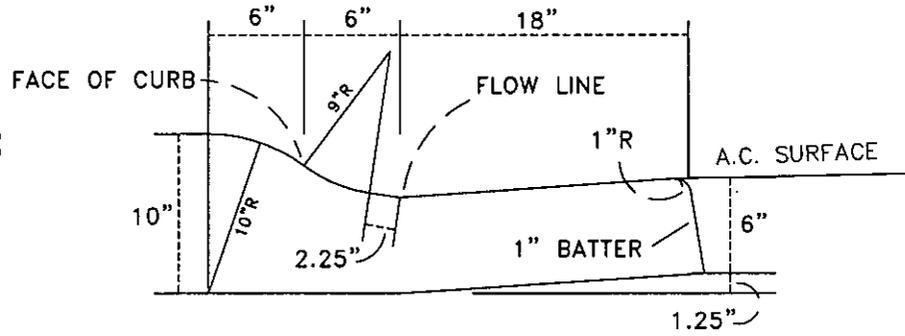
VERTICAL & TYPICAL SECTIONS FOR:
ROLLED CURB, GUTTER & SIDEWALK
COUNTY STANDARD NO.

S-1
N.T.S.

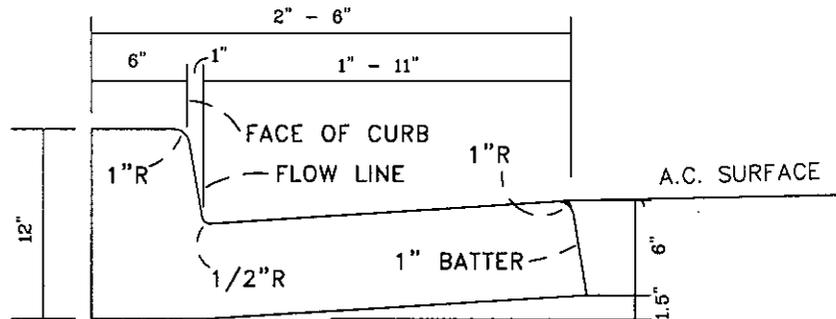
REVISED 01/28/03



SECTION
ROLLED CURB
& GUTTER

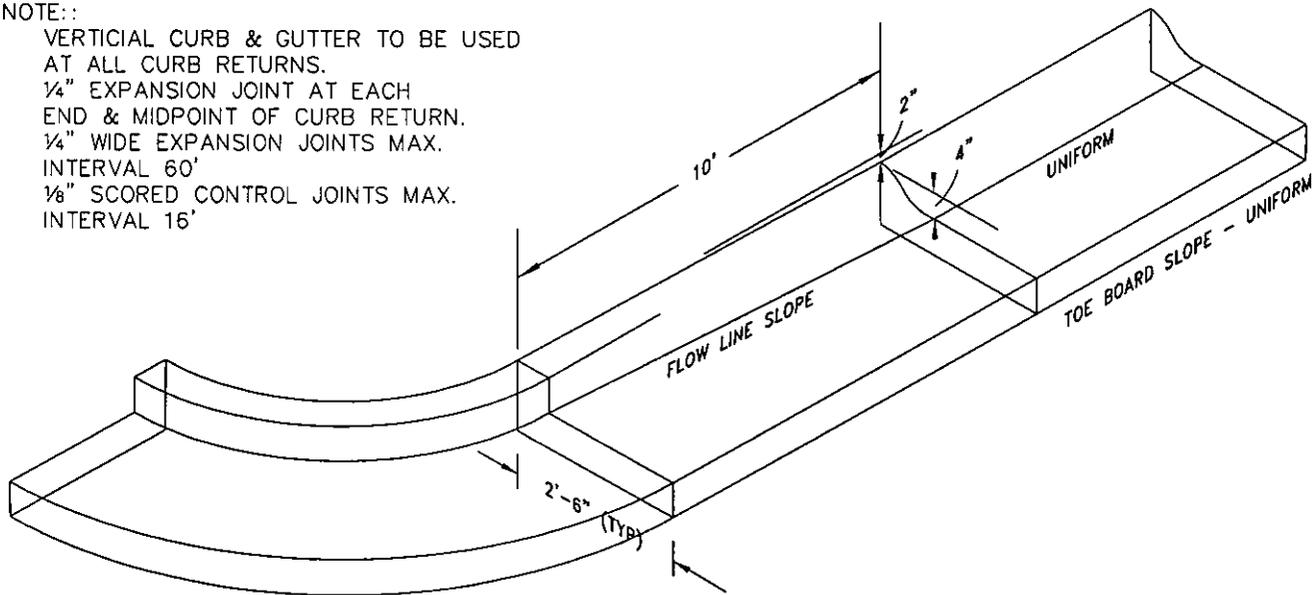


SECTION
VERTICAL CURB
& GUTTER



NOTE:

- VERTICAL CURB & GUTTER TO BE USED AT ALL CURB RETURNS.
- 1/4" EXPANSION JOINT AT EACH END & MIDPOINT OF CURB RETURN.
- 1/4" WIDE EXPANSION JOINTS MAX.
- INTERVAL 60'
- 1/8" SCORED CONTROL JOINTS MAX.
- INTERVAL 16'

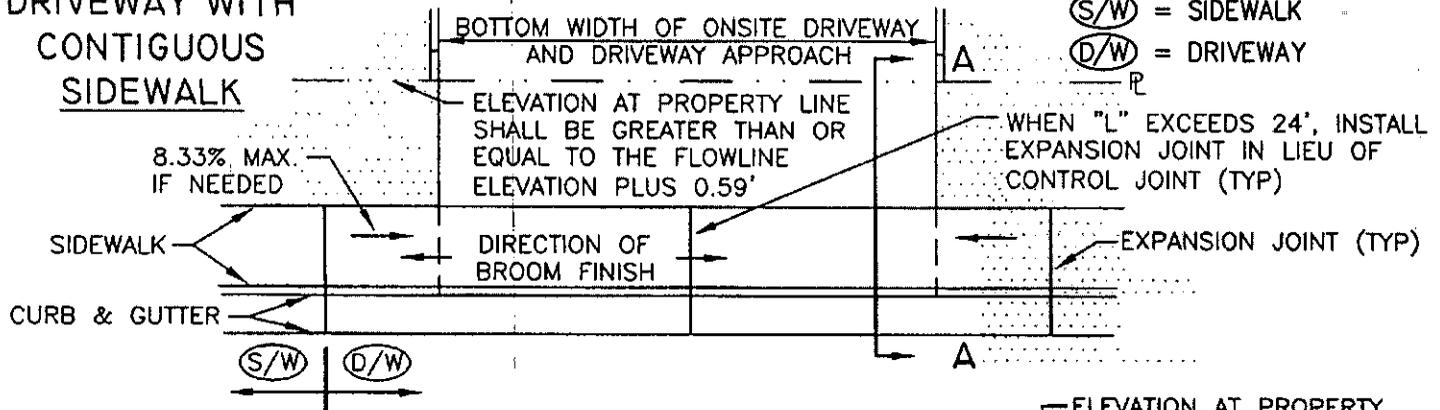


DETAILS OF TRANSITION
FROM ROLLED CURB & GUTTER
TO VERTICAL CURB & GUTTER

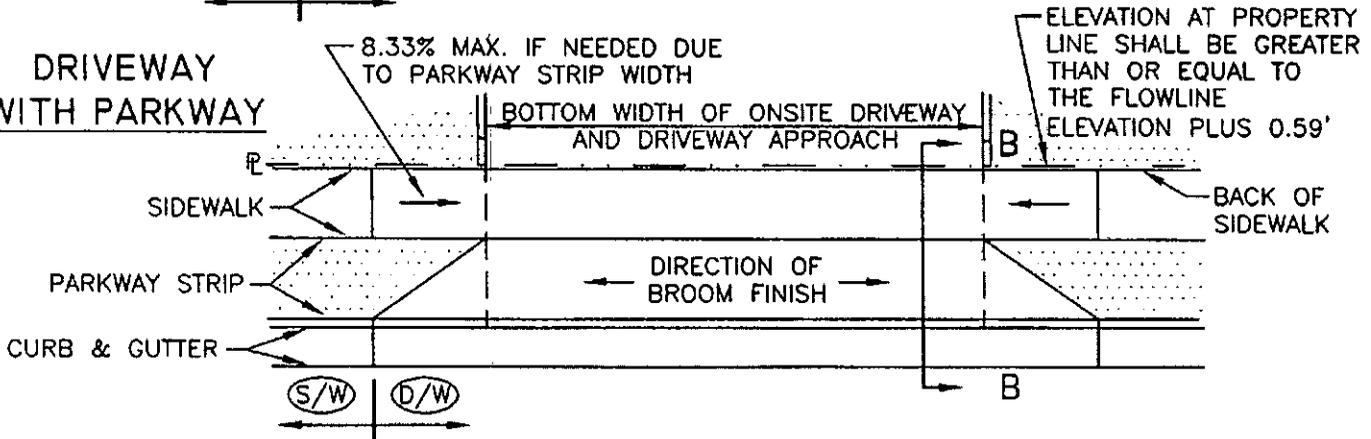
TYPICAL STANDARDS FOR CONCRETE:
VERTICAL AND ROLLED CURB & GUTTER
COUNTY STANDARD NO.
S-2
N.T.S.



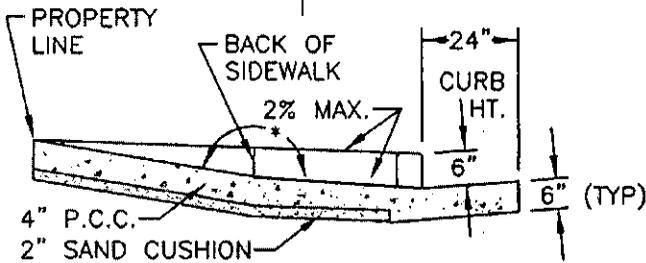
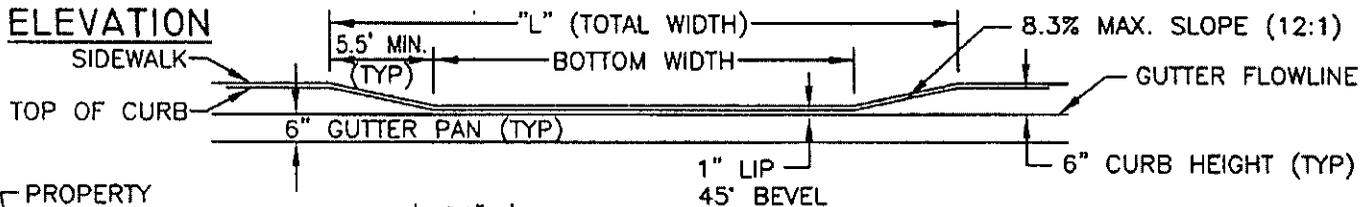
**DRIVEWAY WITH
CONTIGUOUS
SIDEWALK**



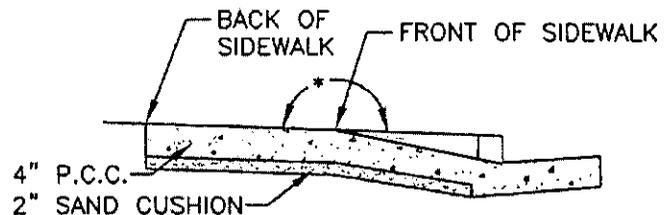
**DRIVEWAY
WITH PARKWAY**



ELEVATION



SECTION A-A



SECTION B-B

* MAX. ALGEBRAIC
DIFFERENCE OF 17.5%

NOTES:

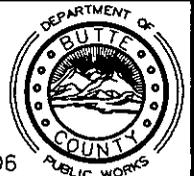
1. STANDARD S-5 SHALL BE USED FOR RESIDENTIAL DEVELOPMENTS WITH 8 OR LESS ONSITE PARKING SPACES.
2. MIN. BOTTOM WIDTH AT FACE OF CURB:

A) SINGLE SPACE AND TANDEM PARKING - 16'	C) ONE WAY - 14' MINIMUM, 18' MAXIMUM
B) TWO SPACES (SIDE BY SIDE) - 18'	D) TWO WAY - 24' MINIMUM, 30' MAXIMUM
3. WHERE CURB HEIGHT IS GREATER THAN 6" AND/OR DISTANCE BETWEEN FACE OF CURB AND FRONT OF SIDEWALK IS LESS THAN 4'6", THE SIDEWALK SHALL BE DEPRESSED TO MAINTAIN MAXIMUM SLOPES.
4. STANDARD S-5 IS NOT REQUIRED IN CONJUNCTION WITH ROLLED CURB AND GUTTER.

**STANDARD FOR:
CONCRETE RESIDENTIAL DRIVEWAY APPROACH
COUNTY STANDARD NO.**

**S-3
N.T.S.**

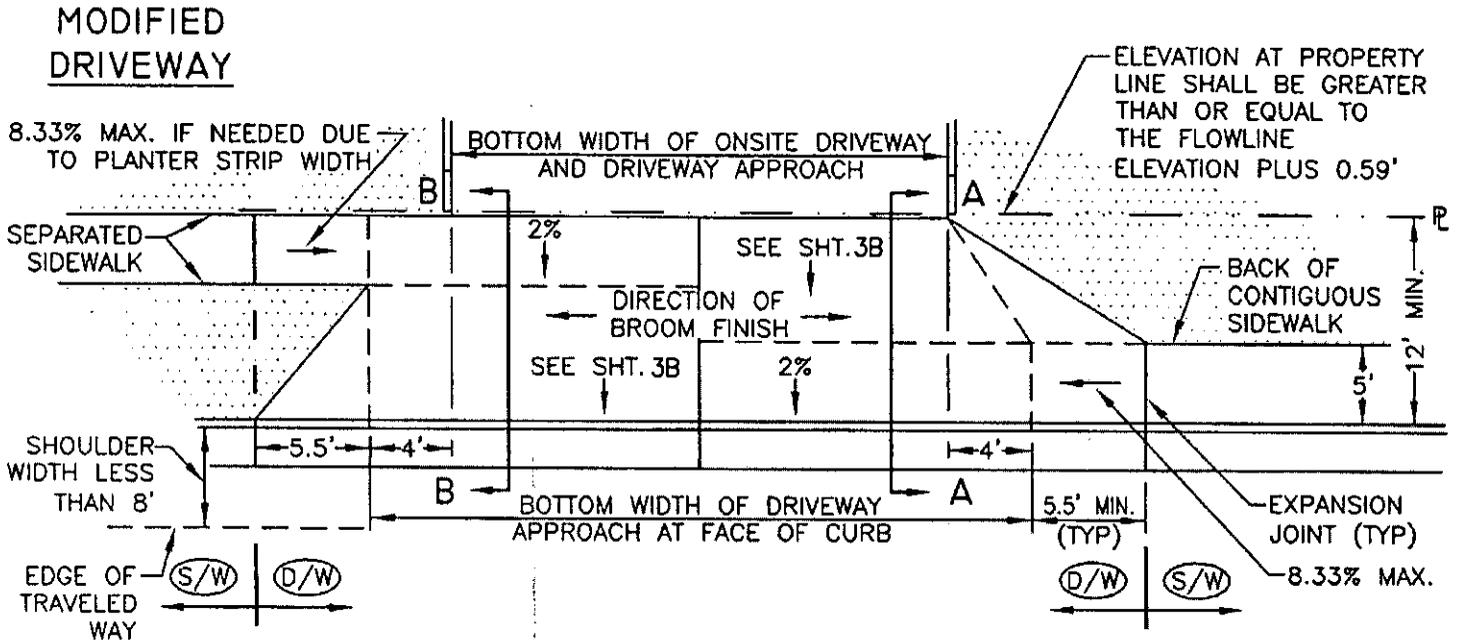
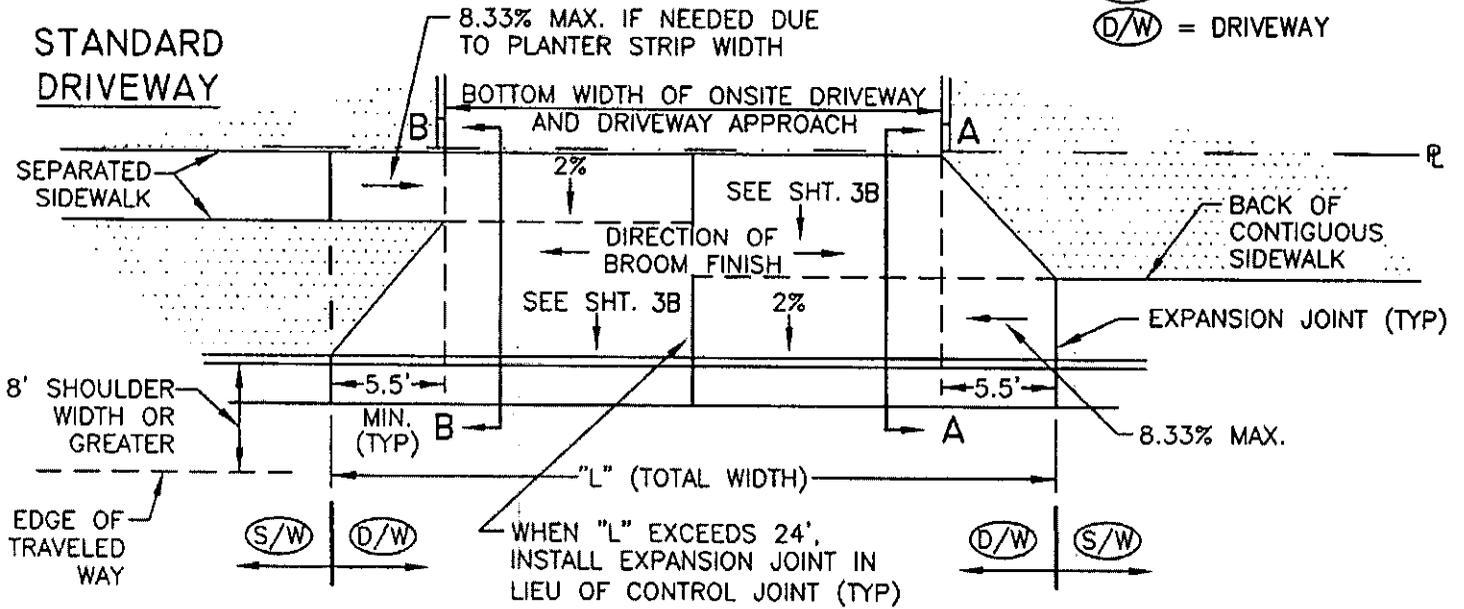
RES 06-149 10/24/06



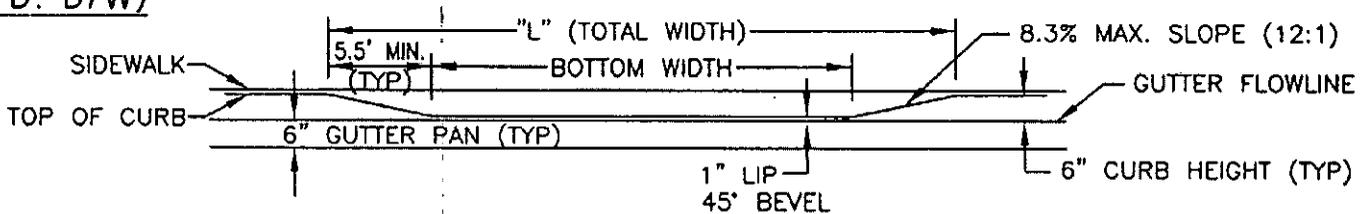
QUANTITY PAYMENT LIMITS:

(S/W) = SIDEWALK

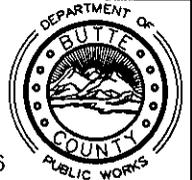
(D/W) = DRIVEWAY



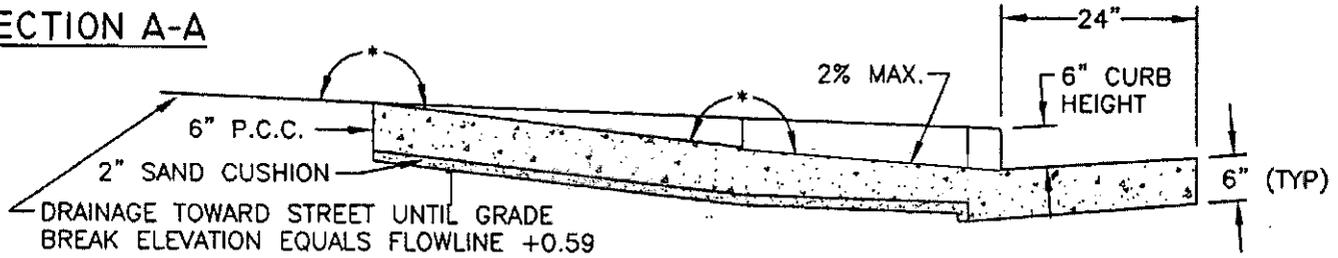
ELEVATION (STD. D/W)



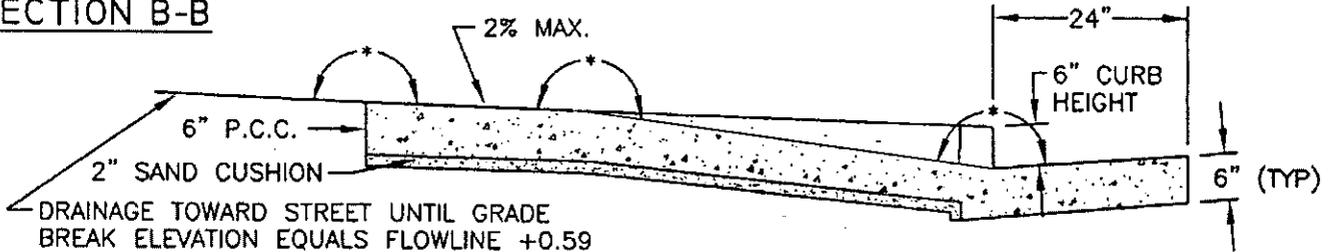
STANDARD FOR:
 CONCRETE COMMERCIAL DRIVEWAY APPROACH
 COUNTY STANDARD NO. S-3A
 N.T.S.



SECTION A-A



SECTION B-B



* MAX. ALGEBRAIC DIFFERENCE OF 17.5%

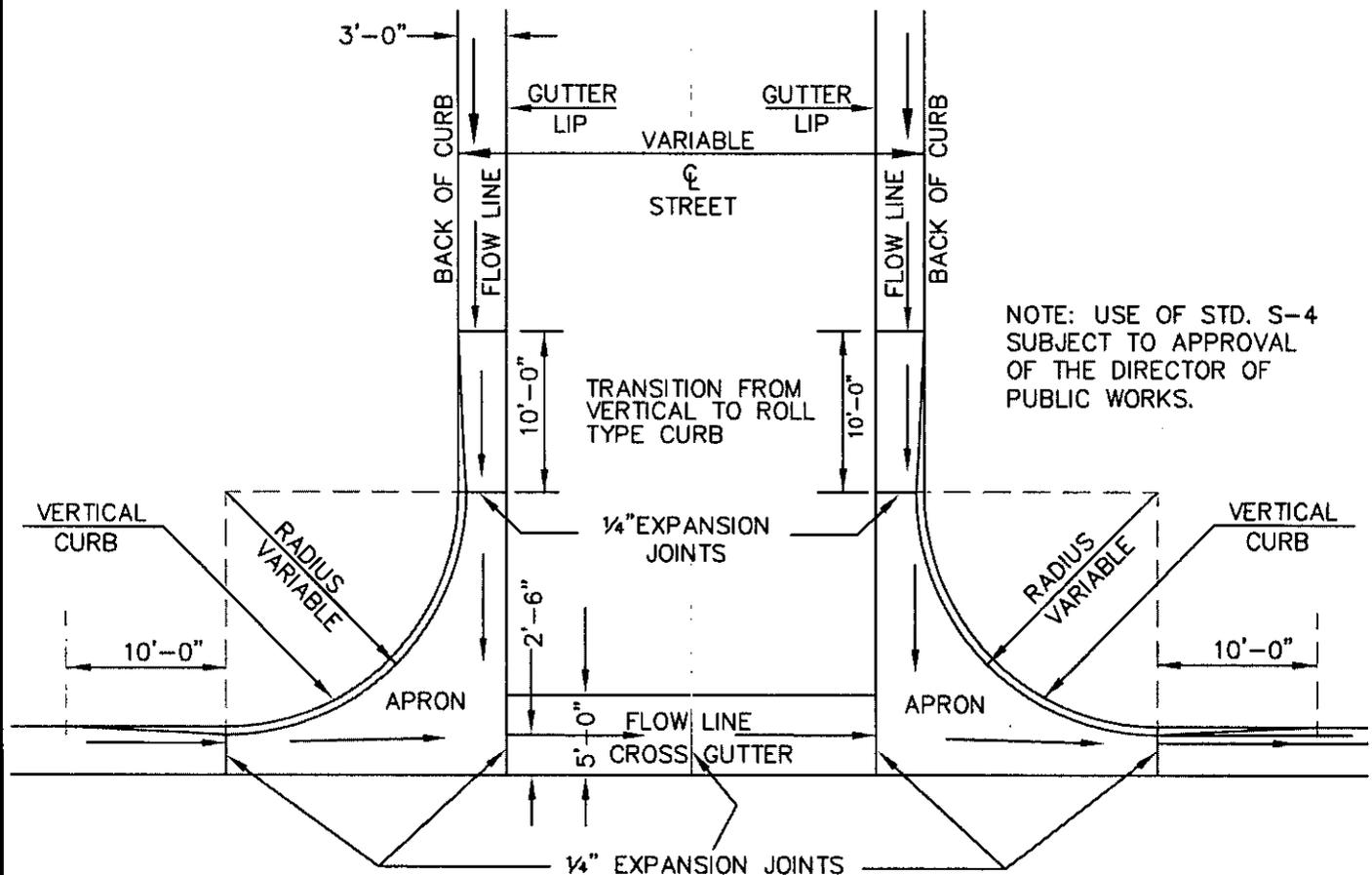
NOTES:

1. STANDARD S-3A SHALL BE USED FOR COMMERCIAL AND INDUSTRIAL DEVELOPMENTS, RESIDENTIAL DEVELOPMENTS WITH GREATER THAN 8 ONSITE PARKING SPACES AND PRIVATE STREET SUBDIVISIONS.
2. MODIFIED DRIVEWAY SHALL BE USED WHERE ROADWAY SHOULDER IS LESS THAN 8'.
3. BOTTOM WIDTH OF STANDARD DRIVEWAY AT FACE OF CURB:
 - A) ONE WAY - 16' MINIMUM, 24' MAXIMUM
 - B) TWO WAY - 24' MINIMUM, 30' MAXIMUM
4. BOTTOM WIDTH OF MODIFIED DRIVEWAY AT FACE OF CURB:
 - A) ONE WAY - 28' MINIMUM, 32' MAXIMUM
 - B) TWO WAY - 32' MINIMUM, 38' MAXIMUM

CROSS SECTIONS FOR:
CONCRETE COMMERCIAL DRIVEWAY APPROACH
COUNTY STANDARD NO.
S-3B
N.T.S.

RES 06-149 10/24/06



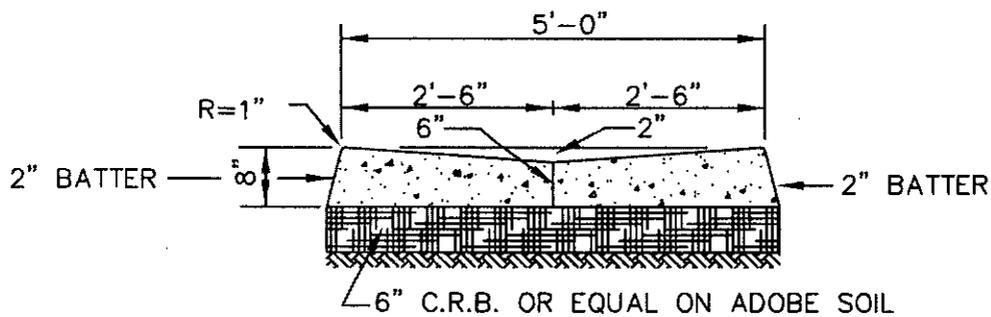


NOTE: USE OF STD. S-4 SUBJECT TO APPROVAL OF THE DIRECTOR OF PUBLIC WORKS.

ALL APRONS SHALL BE CLASS "1" CONCRETE 6" THICK THROUGHOUT

NOTE: EXPANSION JOINTS SHALL BE PLACED AT EACH END OF CROSS GUTTERS AND AT MID-SPAN PERPENDICULAR TO THE LONGITUDINAL AXIS, AND AT BOTH ENDS OF ALL CURB RETURNS.

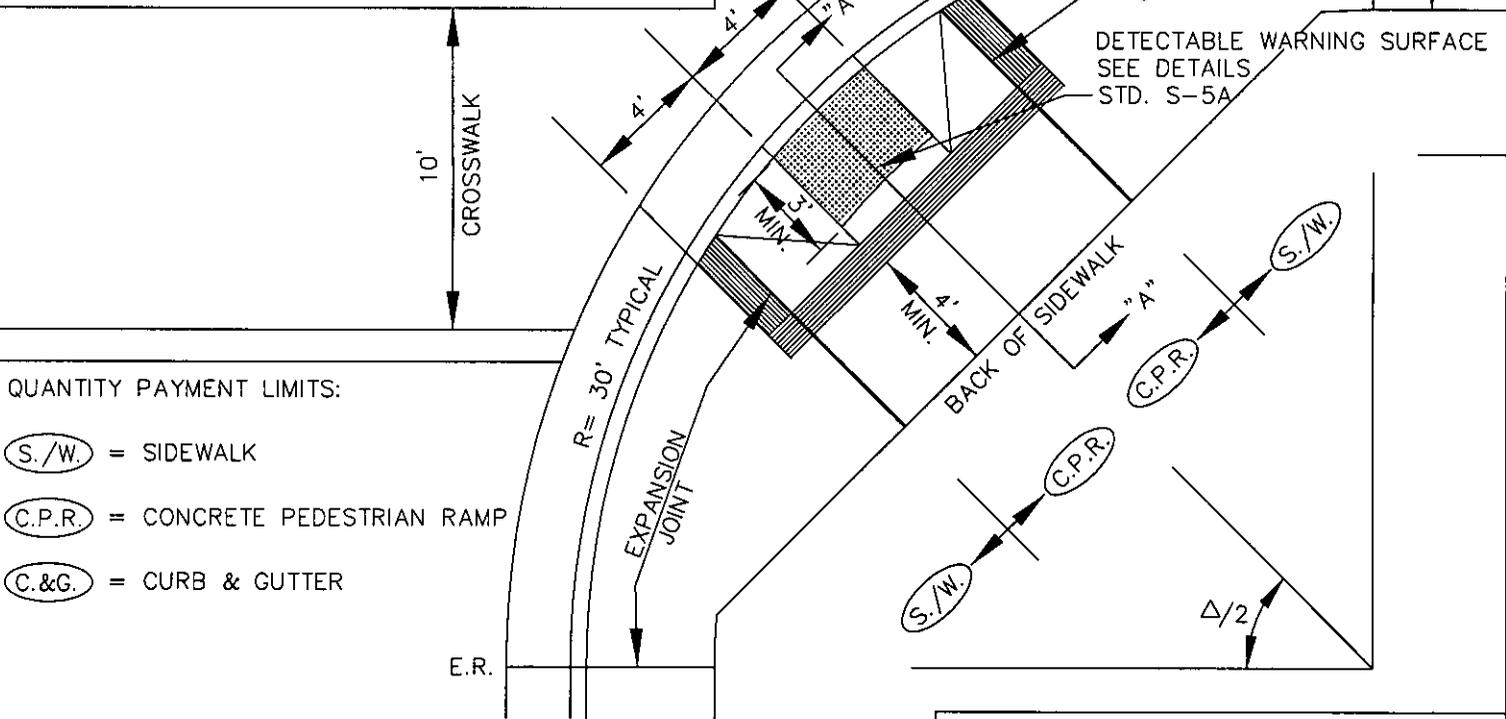
NOTE: VERTICAL FACE TYPE CURB SHALL BE USED ON ALL STREETS ANY PORTION OF WHICH, INTERSECTION TO INTERSECTION, HAS A GRADE OF 3% OR GREATER AND AT ALL CURB RETURNS AT STREET INTERSECTIONS.



STANDARD FOR:
STANDARD CROSS GUTTER
COUNTY STANDARD NO.
S-4
N.T.S.



SIDE PERIMETER OF RAMP SHALL HAVE PARALLEL GROOVES 1/4" WIDE X 1/4" DEEP X 3/4" APART ON CENTER FOR A WIDTH OF 12". SEE GROOVING DETAIL.



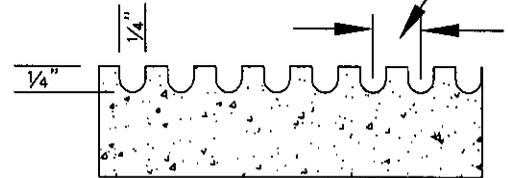
QUANTITY PAYMENT LIMITS:

- (S./W.) = SIDEWALK
- (C.P.R.) = CONCRETE PEDESTRIAN RAMP
- (C.&G.) = CURB & GUTTER

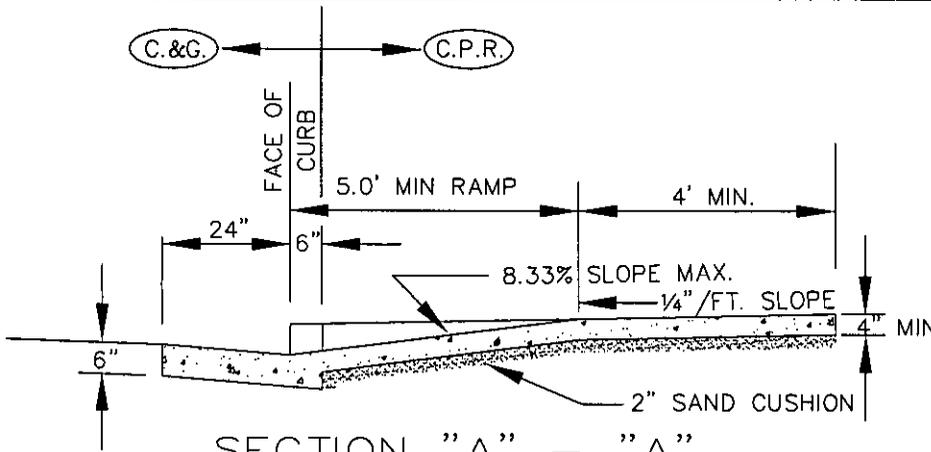
PLAN

NOTE: WHEN RAMP IS LOCATED IN CENTER OF CURB RETURN, IT SHALL BE GROOVED IN A HERRING BONE PATTERN WITH 1/4" GROOVES APPROXIMATELY 1 1/2" O.C. SEE GROOVING DETAIL. GROOVES SHOULD BE ALIGNED PARALLEL TO CROSSWALK STRIPES TO DIRECT BLIND PEDESTRIANS INTO APPROPRIATE CROSSWALK.

APPROX. 3/4" EXCEPT APPROX. 1 1/2" ON SLOPING PORTION OF RAMP



GROOVING DETAIL

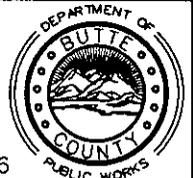


SECTION "A" - "A"

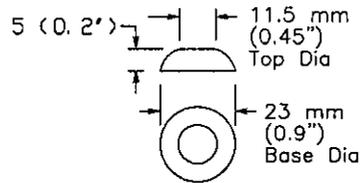
NOTE:
RAMP AND GUTTER POURED TOGETHER

USE THIS STANDARD WHERE SUFFICIENT RIGHT-OF-WAY IS AVAILABLE

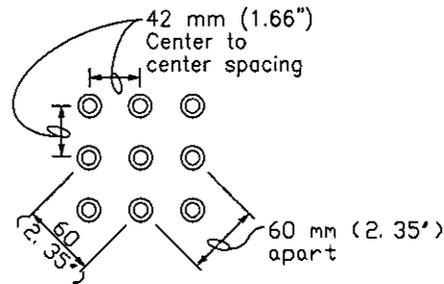
STANDARD FOR:
CONCRETE PEDESTRIAN RAMP TYPE A
COUNTY STANDARD NO.
S-5
N.T.S.



RES 06-149 10/24/06



RAISED TRUNCATED DOME



RAISED TRUNCATED DOME
PATTERN (IN-LINE)

NOTES:

1. Pedestrian ramps shall have a detectable warning surface that extends the full width and 914 mm (3'-0") depth of the ramp. Detectable Warning Surfaces shall conform to the details on this plan and the requirements in the Special Provisions.
2. The edge of the detectable warning surface nearest the street shall be between 150 mm (6") and 205 mm (8") from the gutter flowline.

STANDARD FOR:
DETECTABLE WARNING SURFACE
COUNTY STANDARD NO.
S-5A
N.T.S.



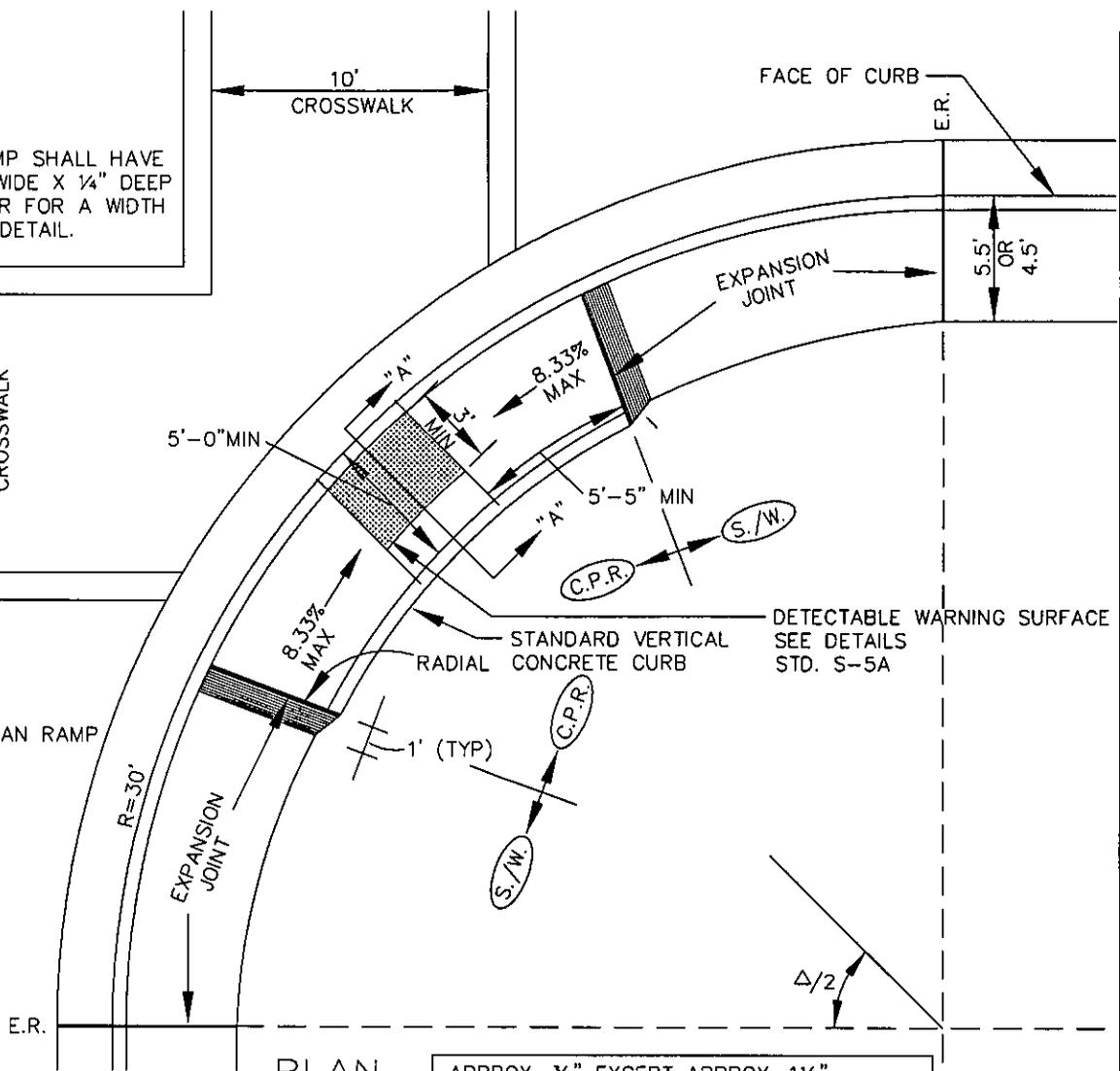
SIDE PERIMETER OF RAMP SHALL HAVE PARALLEL GROOVES 1/4" WIDE X 1/4" DEEP X 3/4" APART ON CENTER FOR A WIDTH OF 12". SEE GROOVING DETAIL.

QUANTITY PAYMENT LIMITS:

(S./W.) = SIDEWALK

(C.P.R.) = CONCRETE PEDESTRIAN RAMP

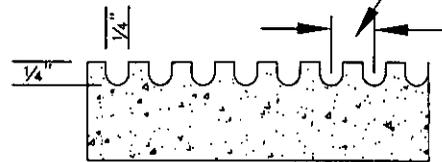
(C.&G.) = CURB & GUTTER



PLAN

NOTE: WHEN RAMP IS LOCATED IN CENTER OF CURB RETURN, IT SHALL BE GROOVED IN A HERRING BONE PATTERN (SEE GROOVING DETAIL.) GROOVES SHOULD BE ALIGNED PARALLEL TO CROSSWALK STRIPES TO DIRECT BLIND PEDESTRIANS INTO APPROPRIATE CROSSWALK.

APPROX. 3/4" EXCEPT APPROX. 1 1/2" ON SLOPING PORTION OF RAMP

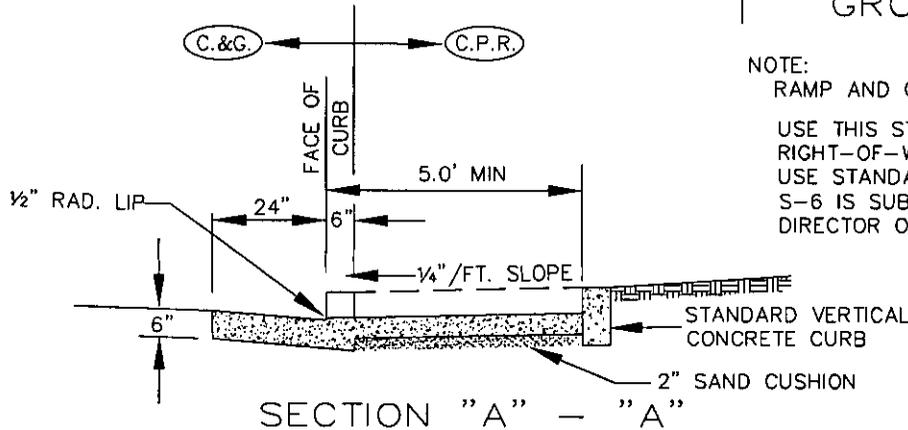


GROOVING DETAIL

NOTE:

RAMP AND GUTTER POURED TOGETHER

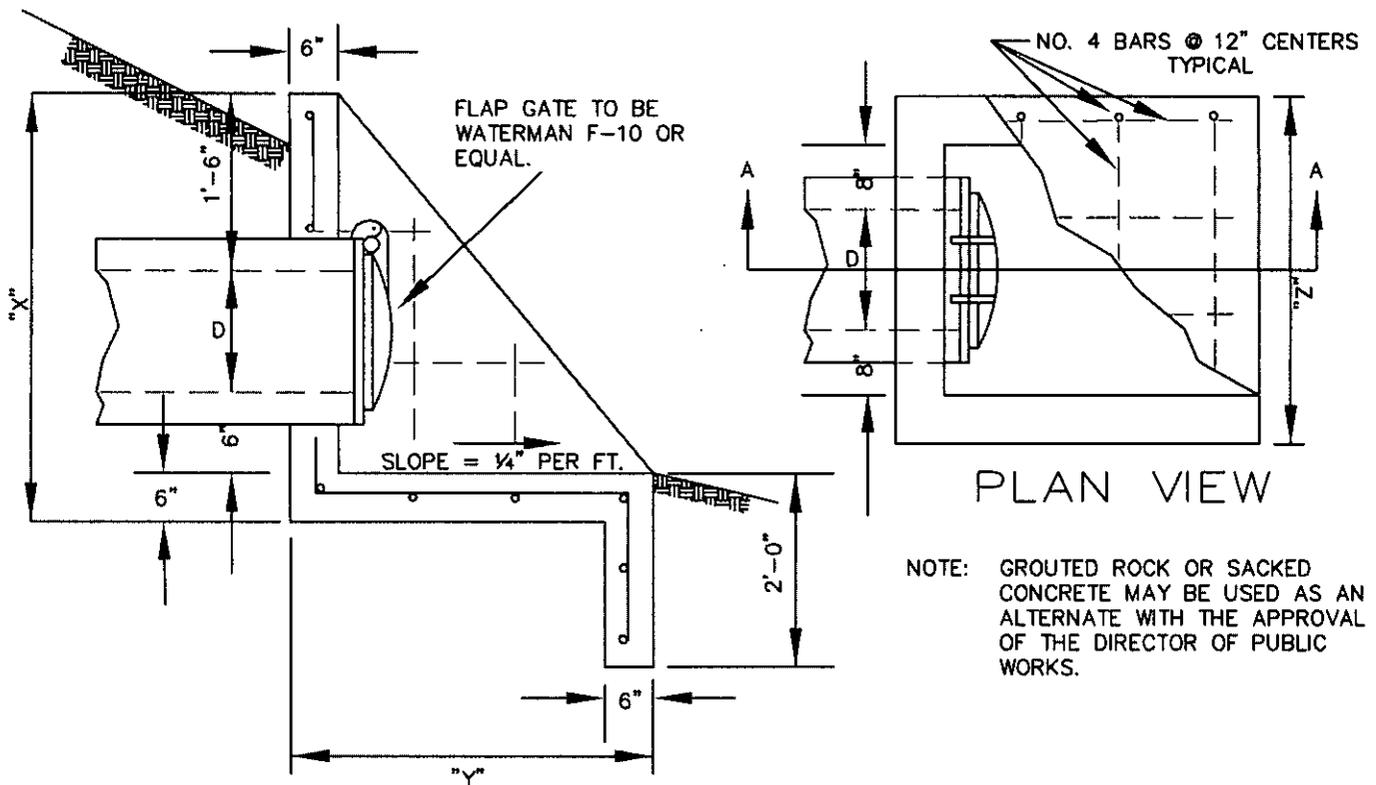
USE THIS STANDARD WHERE SUFFICIENT RIGHT-OF-WAY IS NOT AVAILABLE TO USE STANDARD S-5. USE OF STANDARD S-6 IS SUBJECT TO APPROVAL BY THE DIRECTOR OF PUBLIC WORKS.



SECTION "A" - "A"

STANDARD FOR:
 CONCRETE PEDESTRIAN RAMP TYPE B
 COUNTY STANDARD NO.
 S-6
 N.T.S.





SECTION A-A

NOTE: GROUDED ROCK OR SACKED CONCRETE MAY BE USED AS AN ALTERNATE WITH THE APPROVAL OF THE DIRECTOR OF PUBLIC WORKS.

PIPE DIAMETER	HEADWALL WIDTH	VARIABLE DIMENSIONS					
		SLOPE = 1:1		SLOPE = 1.5:1		SLOPE = 2:1	
		"X"	"Y"	"X"	"Y"	"X"	"Y"
D	D+2'-4"	D+2'-6"	D+2'-6"	D+2'-6"	1.5(D+2'-6")	D+2'	2(D+2'-6")
8"	3'-0"	3'-2"	3'-2"	3'-2"	4'-9"	3'-2"	6'-4"
10"	3'-2"	3'-4"	3'-4"	3'-4"	5'-0"	3'-4"	6'-8"
12"	3'-4"	3'-6"	3'-6"	3'-6"	5'-3"	3'-6"	7'-0"
15"	3'-7"	3'-9"	3'-9"	3'-9"	5'-7½"	3'-9"	7'-6"
18"	3'-10"	4'-0"	4'-0"	4'-0"	6'-0"	4'-0"	8'-0"
21"	4'-1"	4'-3"	4'-3"	4'-3"	6'-4½"	4'-3"	8'-6"
24"	4'-4"	4'-6"	4'-6"	4'-6"	6'-9"	4'-6"	9'-0"
27"	4'-7"	4'-9"	4'-9"	4'-9"	7'-1½"	4'-9"	9'-6"
30"	4'-10"	5'-0"	5'-0"	5'-0"	7'-6"	5'-0"	10'-0"

NOTE: FOR ALL DETAILS NOT SHOWN SEE CALTRANS STANDARD D89 AND D90

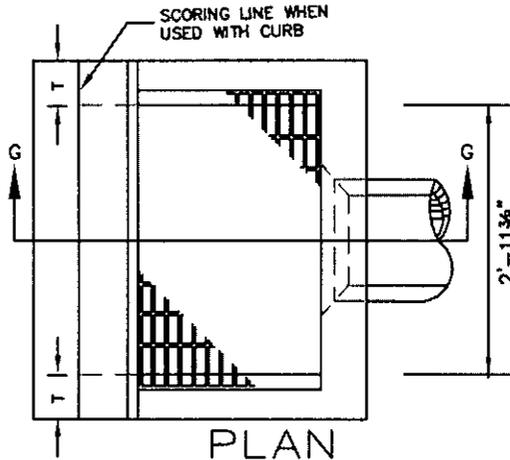
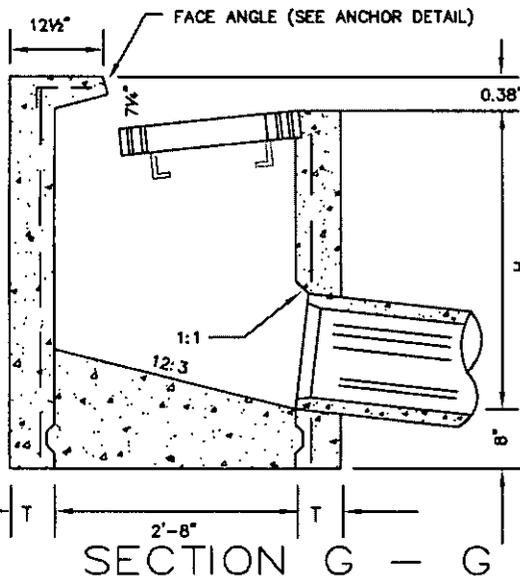
STANDARD FOR:
 TYPICAL HEADWALL STRUCTURAL DETAILS
 COUNTY STANDARD NO.
 S-7
 N.T.S.



NOTE: FOR WALL THICKNESS (T)
SEE TABLE A

H	T
8'-0" OR LESS	6"
8'-1" TO 20'-0"	8"

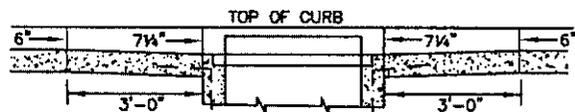
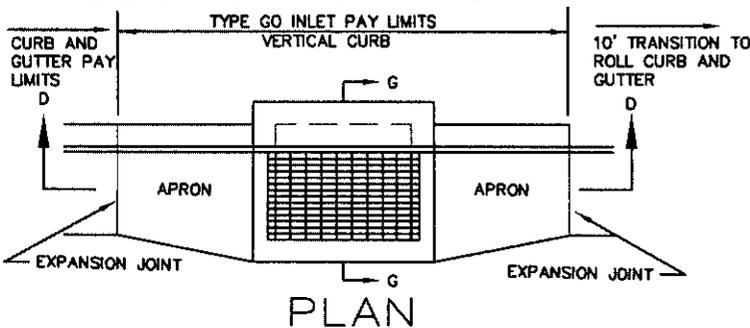
TABLE A



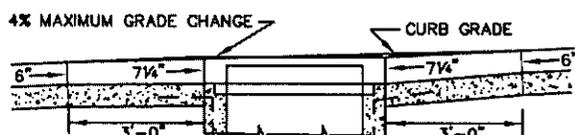
SLOPE NOTES	
D.I. GRADE	ROAD GR.
MATCH ROAD GRADE	0-4%
4%	4-8%
HOLD 4% GRADE CHANGE	8%-UP

GENERAL NOTES

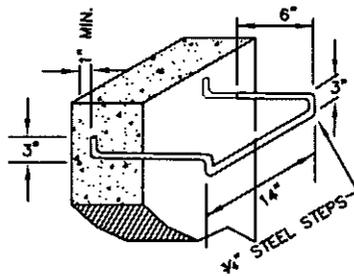
- "H" IS THE DIFFERENCE IN ELEVATION BETWEEN THE OUTLET PIPE FLOW LINE AND THE NORMAL GUTTER GRADE LINE UNDEPRESSED.
- WALL REINFORCING NOT REQUIRED WHEN "H" IS 4' OR LESS WALLS EXCEEDING THESE LIMITS SHALL BE REINFORCED WITH #4 BARS @ 18" +/- CENTERS PLACED 1 1/2" CLEAR TO INSIDE OF BOX UNLESS OTHERWISE SHOWN.
- STEPS - NONE REQUIRED WHERE "H" IS 3'-6" OR LESS. INSTALL ONE STEP 16" +/- ABOVE FLOOR WHEN "H" IS MORE THAN 5'-0", STEPS SHALL BE EVENLY SPACED AT 12" +/- INTERVALS FROM 16" +/- ABOVE FLOOR TO WITHIN 12" +/- OF THE TOP OF THE BOX. PLACE STEPS IN WALL WITHOUT PIPE OPENINGS.
- PIPE(S) CAN BE PLACED IN ANY WALL.
- ALL CONCRETE CLASS 1
- BASIN FLOORS SHALL HAVE WOOD TROWEL FINISH AND A MINIMUM SLOPE OF 12:3 FROM ALL DIRECTIONS TOWARD OUTLET PIPE.
- ALL HARDWARE SHALL BE GALVANIZED.
- WHEN USING STANDARD ROLLED CURB AND GUTTER, CONSTRUCT 10' TRANSITION TO VERTICAL CURB
- WHEN APRON IS REQUIRED WITH DRAINABLE-INLET EXTEND #4 SIDEWALL RE-BAR 12" INTO TAPERED GUTTER PAN.
- DELETE APRON IN NON CURB AND GUTTER AREAS.



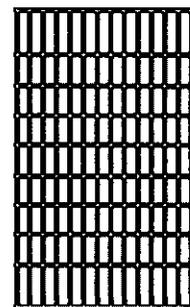
SECTION D - D



SLOPE SECTION

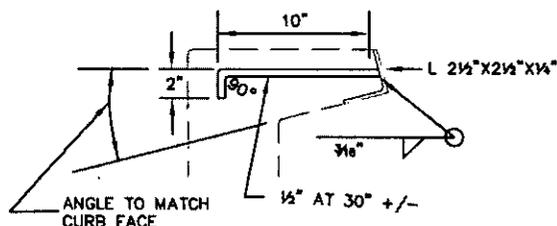


STEP DETAIL



TYPE 24-13 GRATE

NOTE: FRAME AND GRATING SHALL CONFORM TO CAL-TRANS STANDARD PLANS D-77 OR EQUAL.



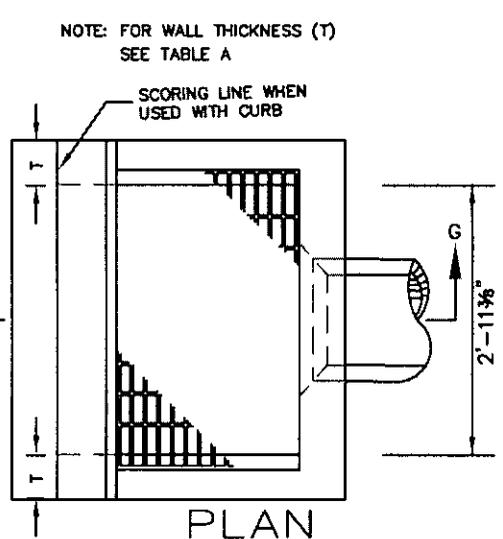
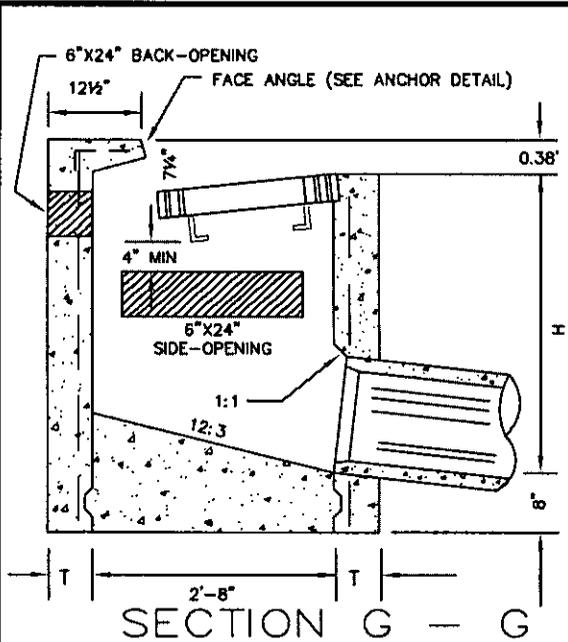
FACE ANGLE ANCHOR DETAIL

STANDARD DETAILS FOR:
TYPE GO DRAINAGE INLET AND DETAILS
COUNTY STANDARD NO.

S-8
N.T.S.

RES 06-149 10/24/06

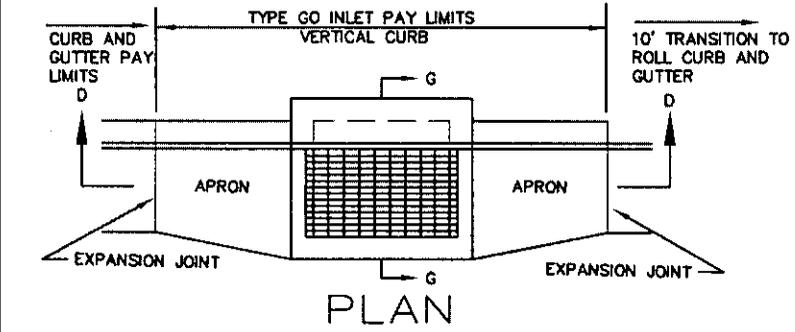




H	T
8'-0" OR LESS	6"
8'-1" TO 20'-0"	8"

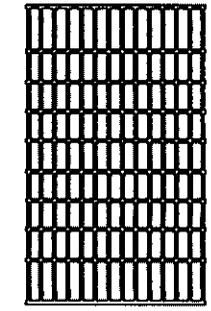
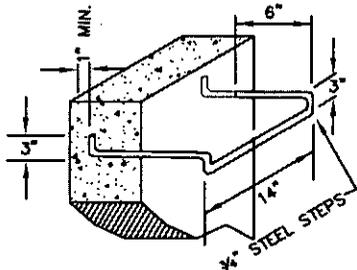
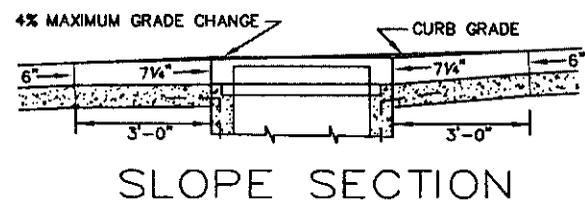
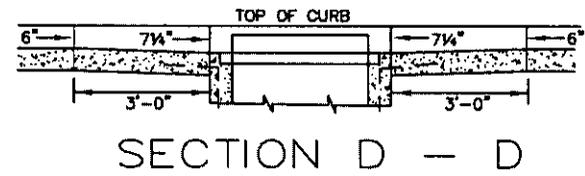
TABLE A

SLOPE NOTES	
D.I. GRADE	ROAD GR.
MATCH ROAD GRADE	0-4%
4%	4-8%
HOLD 4% GRADE CHANGE	8%-UP



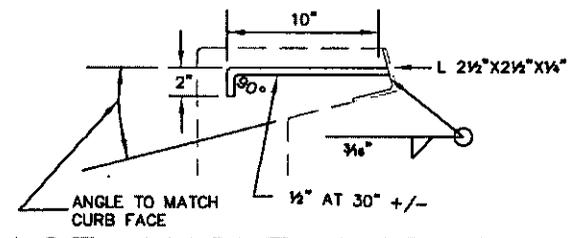
GENERAL NOTES

- "H" IS THE DIFFERENCE IN ELEVATION BETWEEN THE OUTLET PIPE FLOW LINE AND THE NORMAL GUTTER GRADE LINE UNDEPRESSED.
- WALL REINFORCING NOT REQUIRED WHEN "H" IS 4' OR LESS WALLS EXCEEDING THESE LIMITS SHALL BE REINFORCED WITH #4 BARS @ 18" +/- CENTERS PLACED 1 1/2" CLEAR TO INSIDE OF BOX UNLESS OTHERWISE SHOWN.
- STEPS - NONE REQUIRED WHERE "H" IS 3'-6" OR LESS. INSTALL ONE STEP 16" +/- ABOVE FLOOR WHEN "H" IS MORE THAN 5'-0", STEPS SHALL BE EVENLY SPACED AT 12" +/- INTERVALS FROM 16" +/- ABOVE FLOOR TO WITHIN 12" +/- OF THE TOP OF THE BOX. PLACE STEPS IN WALL WITHOUT PIPE OPENINGS.
- PIPE(S) CAN BE PLACED IN ANY WALL.
- ALL CONCRETE CLASS 1
- BASIN FLOORS SHALL HAVE WOOD TROWEL FINISH AND A MINIMUM SLOPE OF 12:3 FROM ALL DIRECTIONS TOWARD OUTLET PIPE.
- ALL HARDWARE SHALL BE GALVANIZED.
- WHEN USING STANDARD ROLLED CURB AND GUTTER, CONSTRUCT A 10' TRANSITION TO VERTICAL CURB
- WHEN APRON IS REQUIRED WITH DRAINABLE-INLET EXTEND #4 SIDEWALL RE-BAR 12" INTO TAPERED GUTTER PAN.
- DELETE APRON IN NON CURB AND GUTTER AREAS.



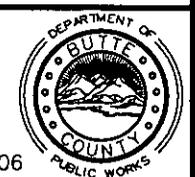
TYPE 24-13 GRATE

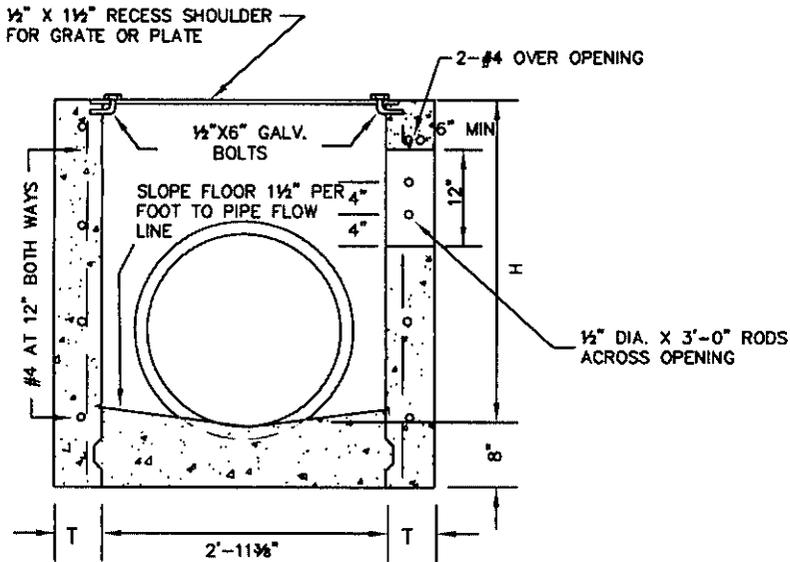
NOTE: FRAME AND GRATING SHALL CONFORM TO CAL-TRANS STANDARD PLANS D-77 OR EQUAL



FACE ANGLE ANCHOR DETAIL

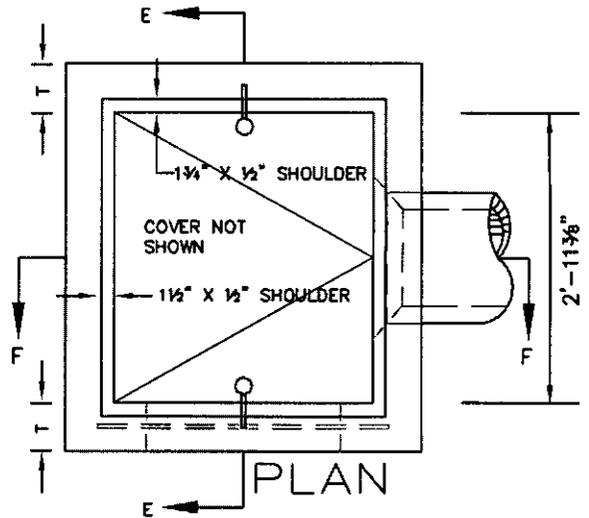
STANDARD DETAILS FOR:
 MODIFIED TYPE GO DRAINAGE INLET
 COUNTY STANDARD NO.
 S-8-A
 N.T.S.





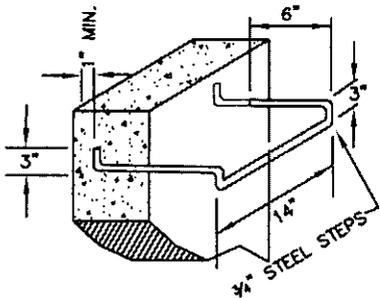
SECTION E - E

NOTE: FOR WALL THICKNESS (T)
SEE TABLE A



H	T
8'-0" OR LESS	6"
8'-1" TO 20'-0"	8"

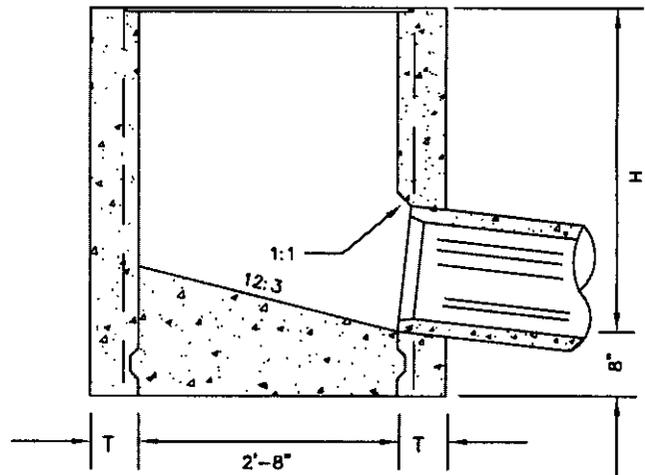
TABLE A



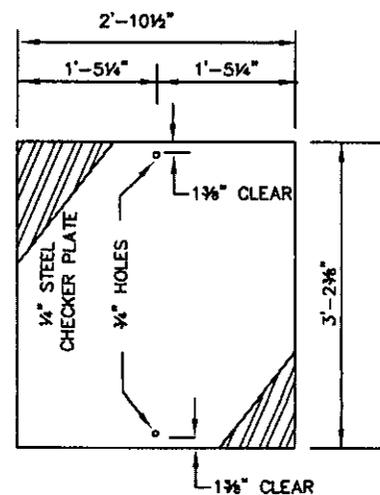
STEP DETAIL

GENERAL NOTES

1. WALL REINFORCING NOT REQUIRED WHEN "H" IS 4' OR LESS WALLS EXCEEDING THESE LIMITS SHALL BE REINFORCED WITH #4 BARS @ 18" +/- CENTERS PLACED 1 1/2" CLEAR TO INSIDE OF BOX UNLESS OTHERWISE SHOWN.
2. STEPS - NONE REQUIRED WHERE "H" IS 3'-6" OR LESS. INSTALL ONE STEP 16" +/- ABOVE FLOOR WHEN "H" IS MORE THAN 5'-0", STEPS SHALL BE EVENLY SPACED AT 12" +/- INTERVALS FROM 16" +/- ABOVE FLOOR TO WITHIN 12" +/- OF THE TOP OF THE BOX. PLACE STEPS IN WALL WITHOUT PIPE OPENINGS.
3. PIPE(S) CAN BE PLACED IN ANY WALL.
4. BASIN FLOORS SHALL HAVE WOOD TROWEL FINISH AND A MINIMUM SLOPE OF 12:3 FROM ALL DIRECTIONS TOWARD OUTLET PIPE.
5. ALL HARDWARE SHALL BE GALVANIZED.
6. TOP OF COVER AT SAME ELEVATION AS EDGE OF PAVEMENT
7. "H" IS THE DIFFERENCE IN ELEVATION BETWEEN THE OUTLET PIPE FLOW LINE AND THE TOP OF COVER.



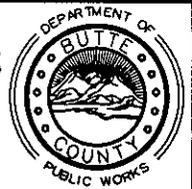
SECTION F - F



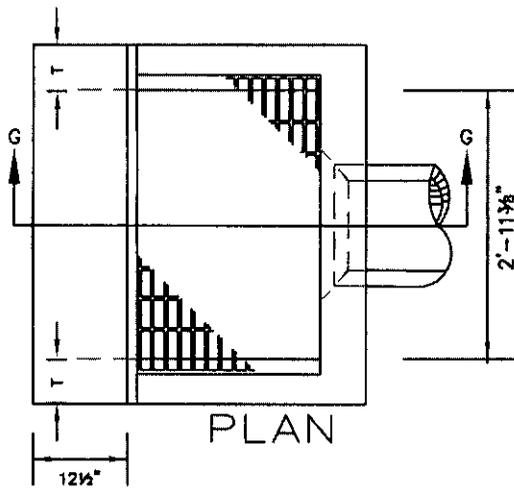
COVER PLAN

STANDARD DETAILS FOR:
MODIFIED TYPE GO DRAINAGE INLET AND DETAILS
COUNTY STANDARD NO.

S-8-B
N.T.S.



NOTE: FOR WALL THICKNESS (T)
SEE TABLE A



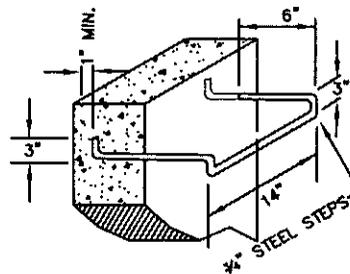
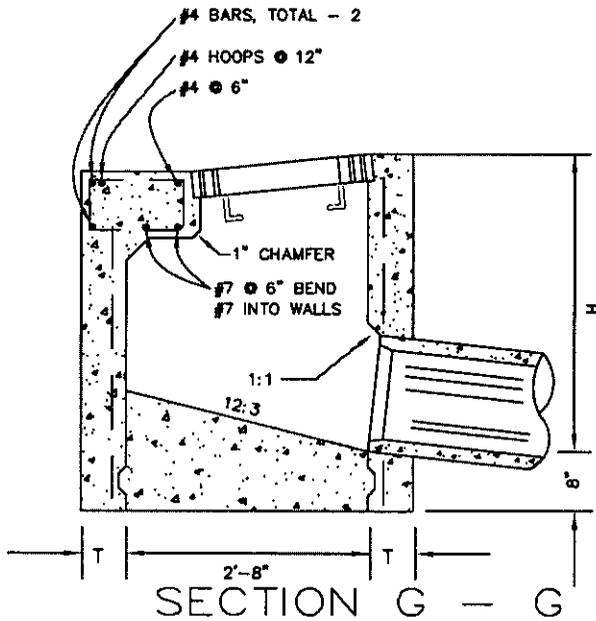
H	T
8'-0" OR LESS	6"
8'-1" TO 20'-0"	8"

TABLE A

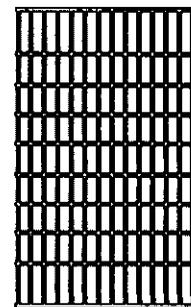
SLOPE NOTES	
D.I. GRADE	ROAD GR.
MATCH ROAD GRADE	0-4%
4%	4-8%
HOLD 4% GRADE CHANGE	8%-UP

GENERAL NOTES

- "H" IS THE DIFFERENCE IN ELEVATION BETWEEN THE OUTLET PIPE FLOW LINE AND THE NORMAL GUTTER GRADE LINE UNDEPRESSED.
- WALL REINFORCING NOT REQUIRED WHEN "H" IS 4' OR LESS WALLS EXCEEDING THESE LIMITS SHALL BE REINFORCED WITH #4 BARS @ 18" +/- CENTERS PLACED 1 1/2" CLEAR TO INSIDE OF BOX UNLESS OTHERWISE SHOWN.
- STEPS - NONE REQUIRED WHERE "H" IS 3'-6" OR LESS. INSTALL ONE STEP 16" +/- ABOVE FLOOR WHEN "H" IS MORE THAN 5'-0", STEPS SHALL BE EVENLY SPACED AT 12" +/- INTERVALS FROM 16" +/- ABOVE FLOOR TO WITHIN 12" +/- OF THE TOP OF THE BOX. PLACE STEPS IN WALL WITHOUT PIPE OPENINGS.
- PIPE(S) CAN BE PLACED IN ANY WALL.
- ALL CONCRETE CLASS 1
- BASIN FLOORS SHALL HAVE WOOD TROWEL FINISH AND A MINIMUM SLOPE OF 12:3 FROM ALL DIRECTIONS TOWARD OUTLET PIPE.
- ALL HARDWARE SHALL BE GALVANIZED.
- WHEN USING STANDARD ROLLED CURB AND GUTTER, CONSTRUCT 10' TRANSITION TO VERTICAL CURB
- WHEN APRON IS REQUIRED WITH DRAINABLE-INLET EXTEND #4 SIDEWALL RE-BAR 12" INTO TAPERED GUTTER PAN.
- DELETE APRON IN NON CURB AND GUTTER AREAS.



STEP DETAIL



TYPE 24-13 GRATE

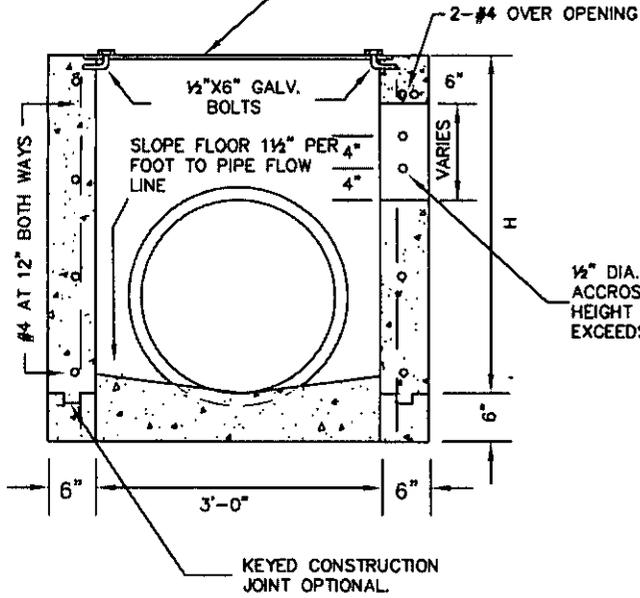
NOTE: FRAME AND GRATING SHALL CONFORM TO
CAL-TRANS STANDARD PLANS D-77 OR EQUAL

STANDARD DETAILS FOR:
TYPE GO DRAINAGE INLET AND DETAILS
COUNTY STANDARD NO.
S-8-C
N.T.S.

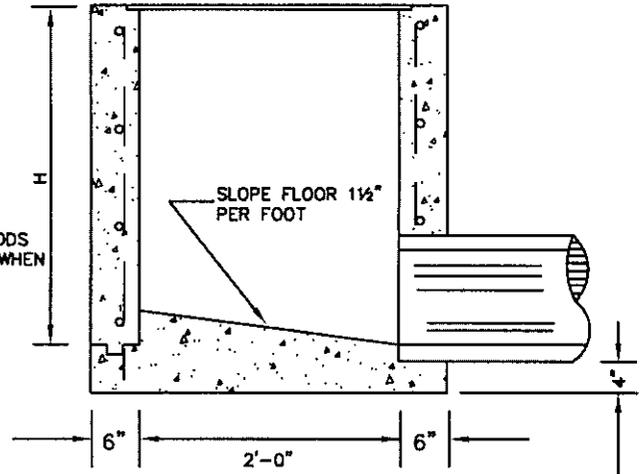


RES 06-149 10/24/06

1/2" X 1 1/4" RECESS SHOULDER FOR GRATE OR PLATE

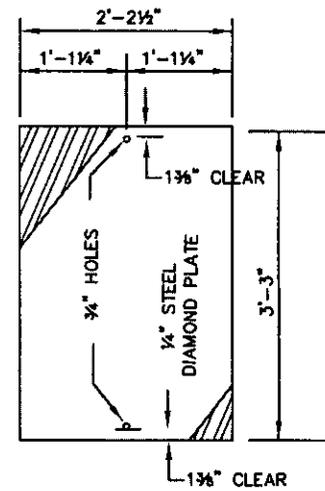
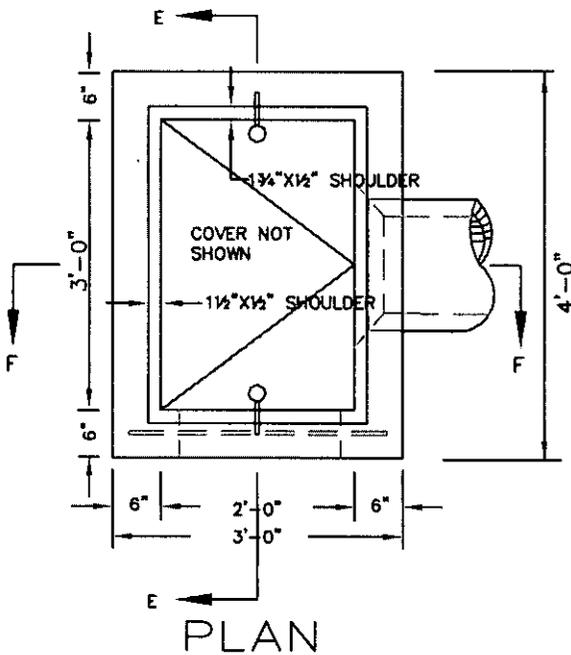


SECTION E - E



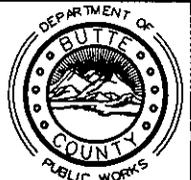
SECTION F - F

NOTE: FOR WALL THICKNESS (T) SEE TABLE A



COVER PLAN
(WT. 74 LBS)

STANDARD FOR:
TYPE "C" INLET
COUNTY STANDARD NO.
S-9
N.T.S.



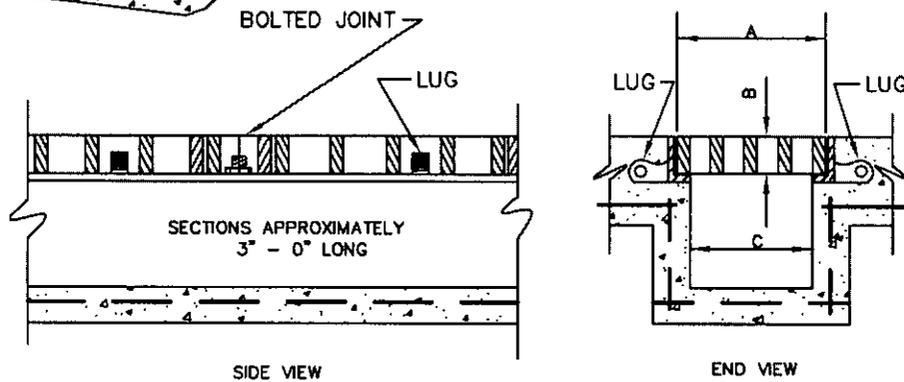
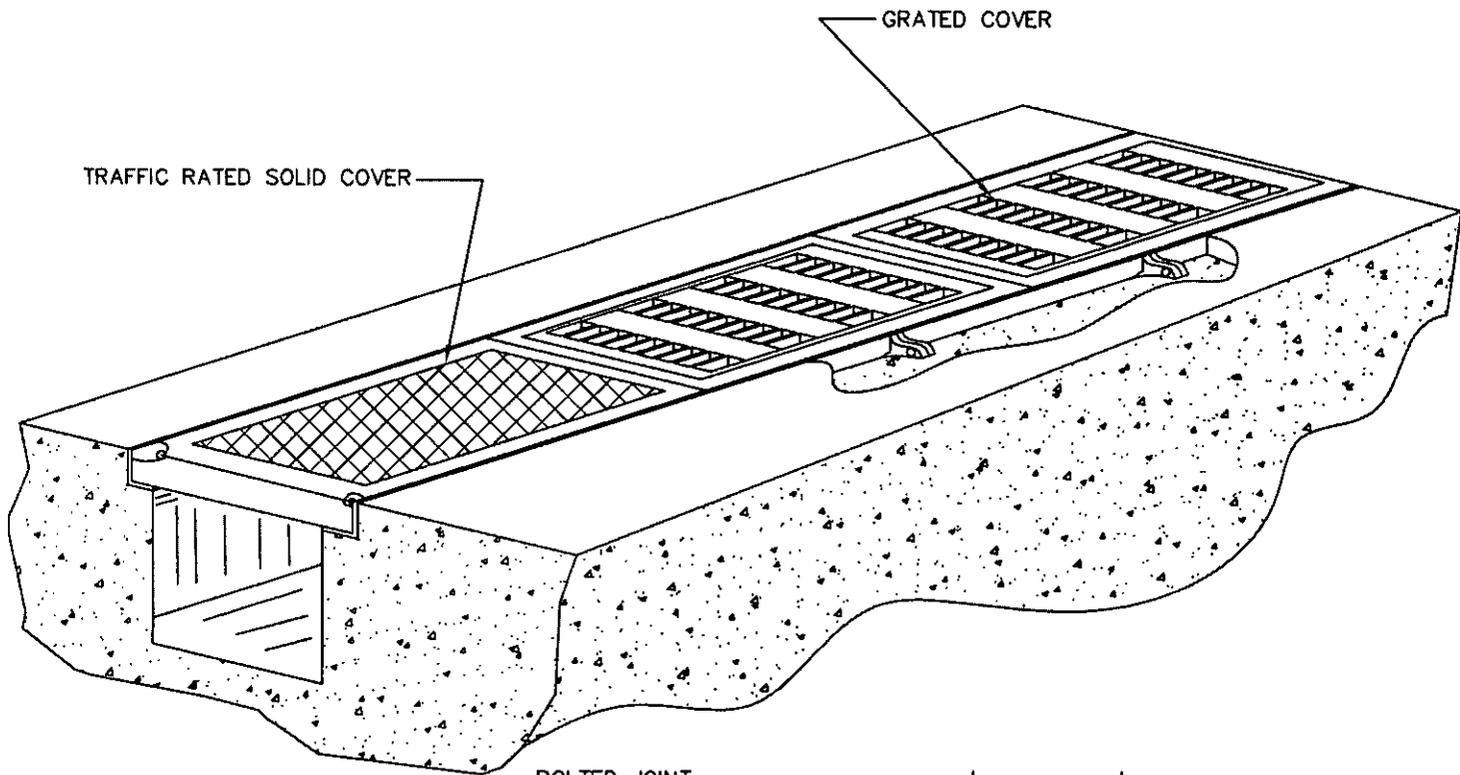
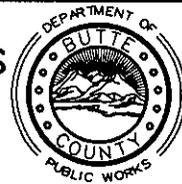


TABLE-----DIMENSIONS IN INCHES

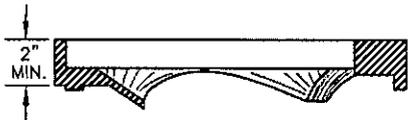
A	B	C
8	1 3/4	6
10	1 3/4	8
12	2	10
14	2	12

NOTES:
 TRENCH DETAILS AND SIZE OF FRAME,
 WITH GRATE OR COVER WILL BE
 SPECIFIED ON PLANS.
 SOUTH BAY FOUNDRY C 50 TRAFFIC
 BIKEPROOF OR EQUAL.

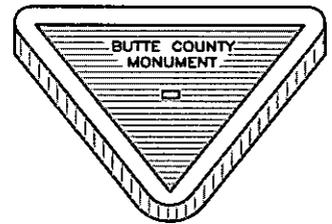
STANDARD FOR:
 CONC. TRENCH COVER FOR STREETS & SIDEWALKS
 COUNTY STANDARD NO.
 S-10
 N.T.S.



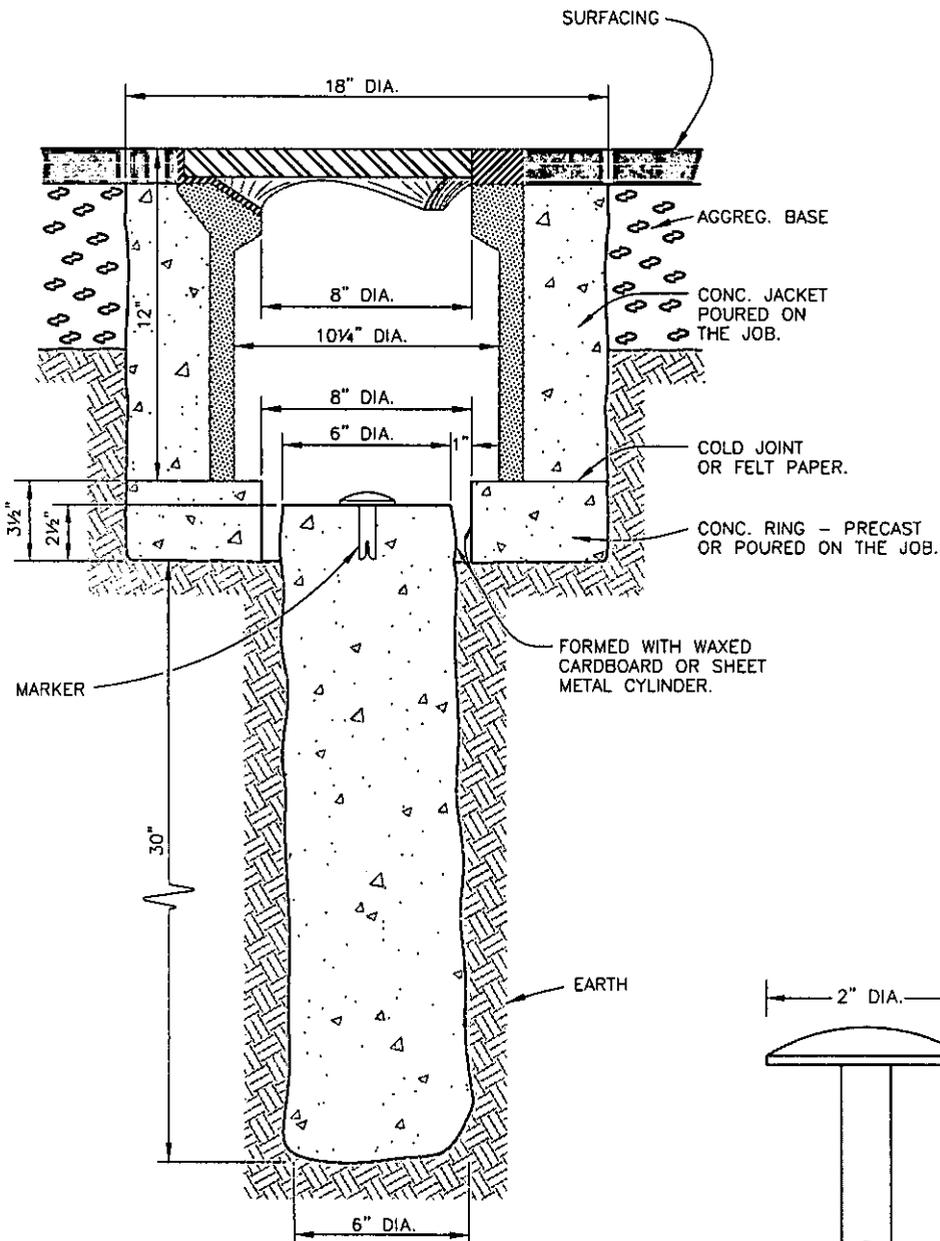
NOTE: WHEN RESURFACING ROAD
ADD RISER RING BETWEEN
EXISTING BOX & COVER
TO MEET NEW ROAD GRADE.



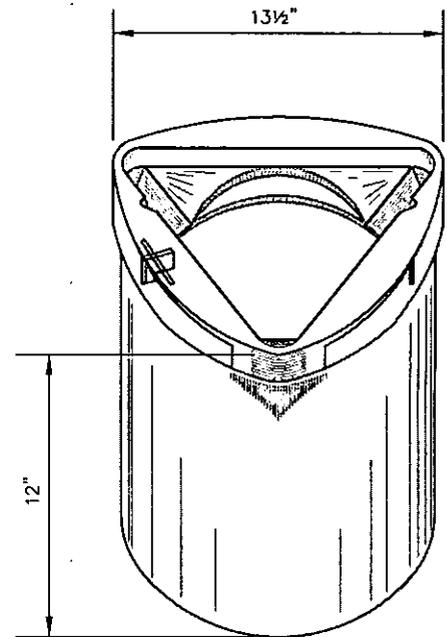
RISER RING



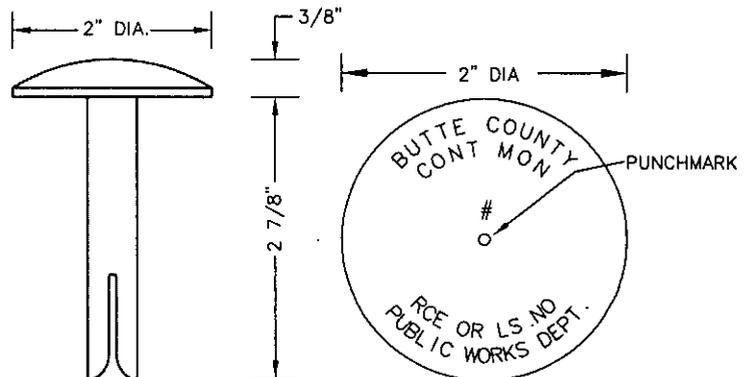
C.I. COVER



MONUMENT SECTION



MONUMENT

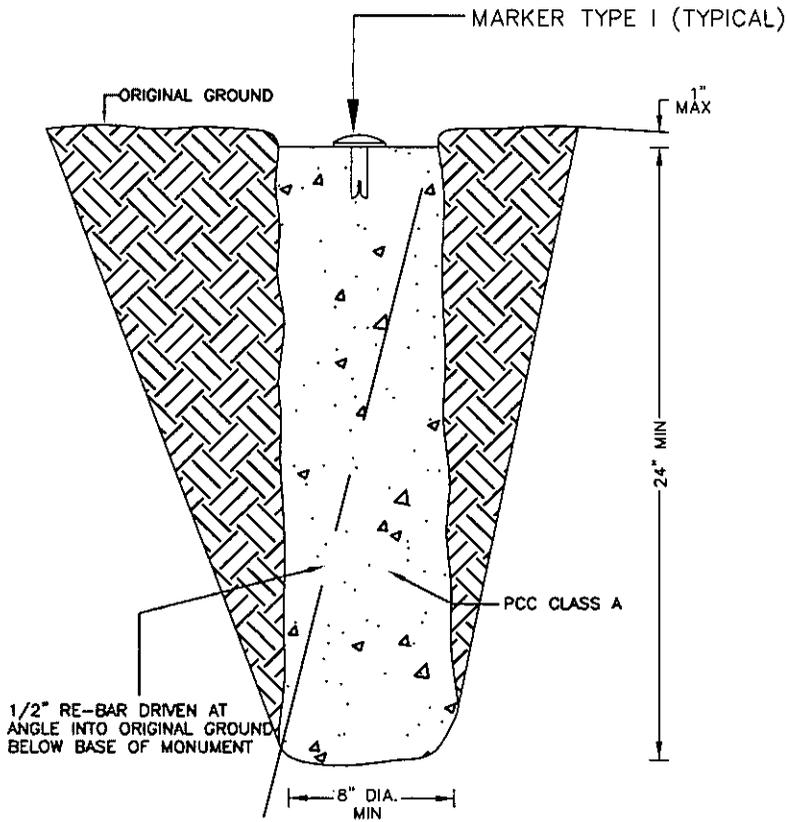


MARKER

NOTE: MONUMENT TO BE NO. 4TT
VALVE BOX W/C.I. FACE & COVER
FOR TRAFFIC USE. BROOKS
PRODUCTS INC. OR EQUAL.

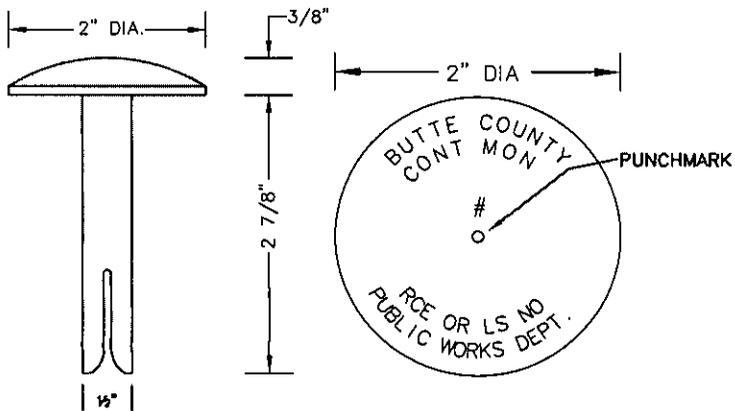
STANDARD FOR:
STREET SURVEY MONUMENT
COUNTY STANDARD NO.
S-11
N.T.S.



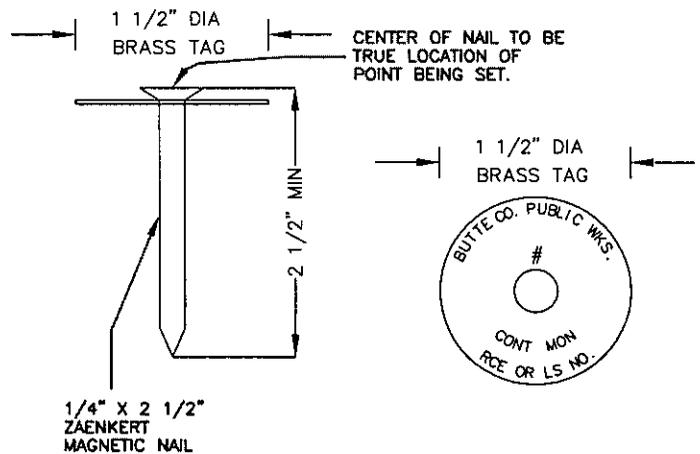


SURVEY CONTROL MONUMENT SECTION

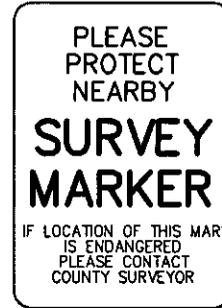
NOTE: BRASS MARKERS TYPE I AND TYPE II TO BE USED AS PRESCRIBED BY THE COUNTY SURVEYOR.



BRASS MARKER TYPE I

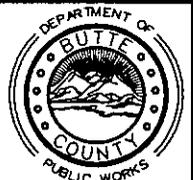


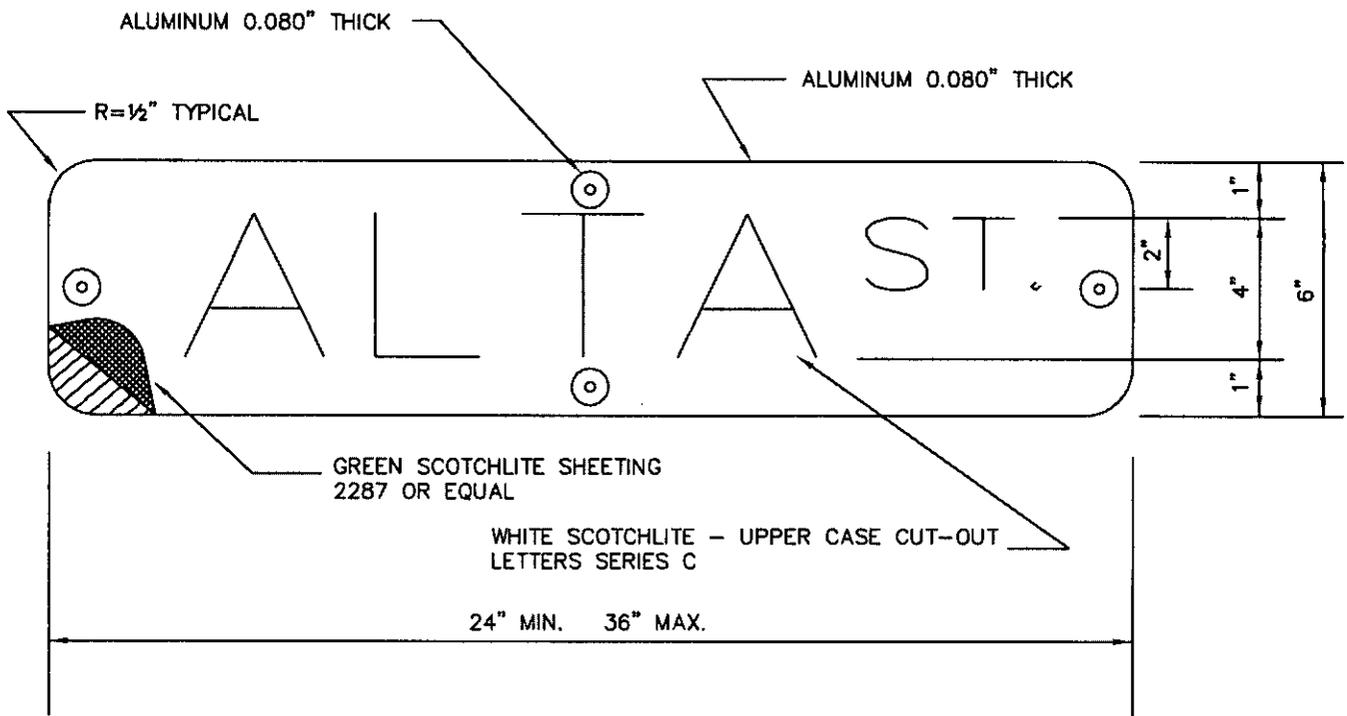
BRASS MARKER TYPE II



NOTE: PREFERRED SURVEY CONTROL MONUMENT LOCATION OUTSIDE OF EXISTING OR PROPOSED ROADWAY SECTION AND WITHIN THE EXISTING OR PROPOSED COUNTY RIGHT-OF-WAY. EXCEPTIONS MAY OCCUR. 5 1/2' T-POST WITH COUNTY SURVEY MONUMENT SIGN TO BE PLACED, FACING ROADWAY, WITHIN ONE FOOT OF MONUMENT AND SIGN MARKED WITH APPROPRIATE INFORMATION.

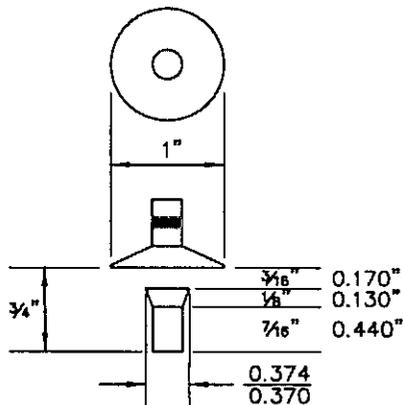
STANDARD FOR:
STANDARD SURVEY CONTROL MONUMENT
COUNTY STANDARD NO.
S-11A
N.T.S.





NOTES:

1. REFLECTIVE 4", 2" & 1" WHITE LETTERS ON GREEN REFLECTIVE BACKGROUND.
2. ALL PRIVATE STREET SIGNS MUST HAVE THE 1" LETTERS "PVT" IN THE UPPER RIGHT HAND CORNER ABOVE THE 2" ST., RD., AVE., LN. ETC.
3. SIGNS SHALL BE MOUNTED ON A TELES PAR BREAK-AWAY POST USING A HEAVY DUTY UNISTRUT ANCHOR.
4. ANCHOR TO BE CEMENTED IN THE GROUND LEAVING 2" OF THE ANCHOR ABOVE GROUND LEVEL TO EXPOSE THE RIVETS.
5. SIGN PLATES AVE TO BE ATTACHED TO THE TELES PAR BREAK-AWAY POST USING RIVETS.
6. ALL SIGNS INSTALLED IN THE STATE RESPONSIBILITY AREA (SRA) SHALL BE IN ACCORDANCE WITH THIS STANDARD.



MATERIAL: ALUMINUM

FINISH: PLAIN, ANODIZED OR PAINTED (SEE CALL-OUT)

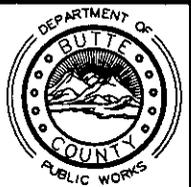
GRIP RANGE: $\pm 0.140'' - 0.330''$ *(WHEN 0.010" FIBRE WASHER IS USED)

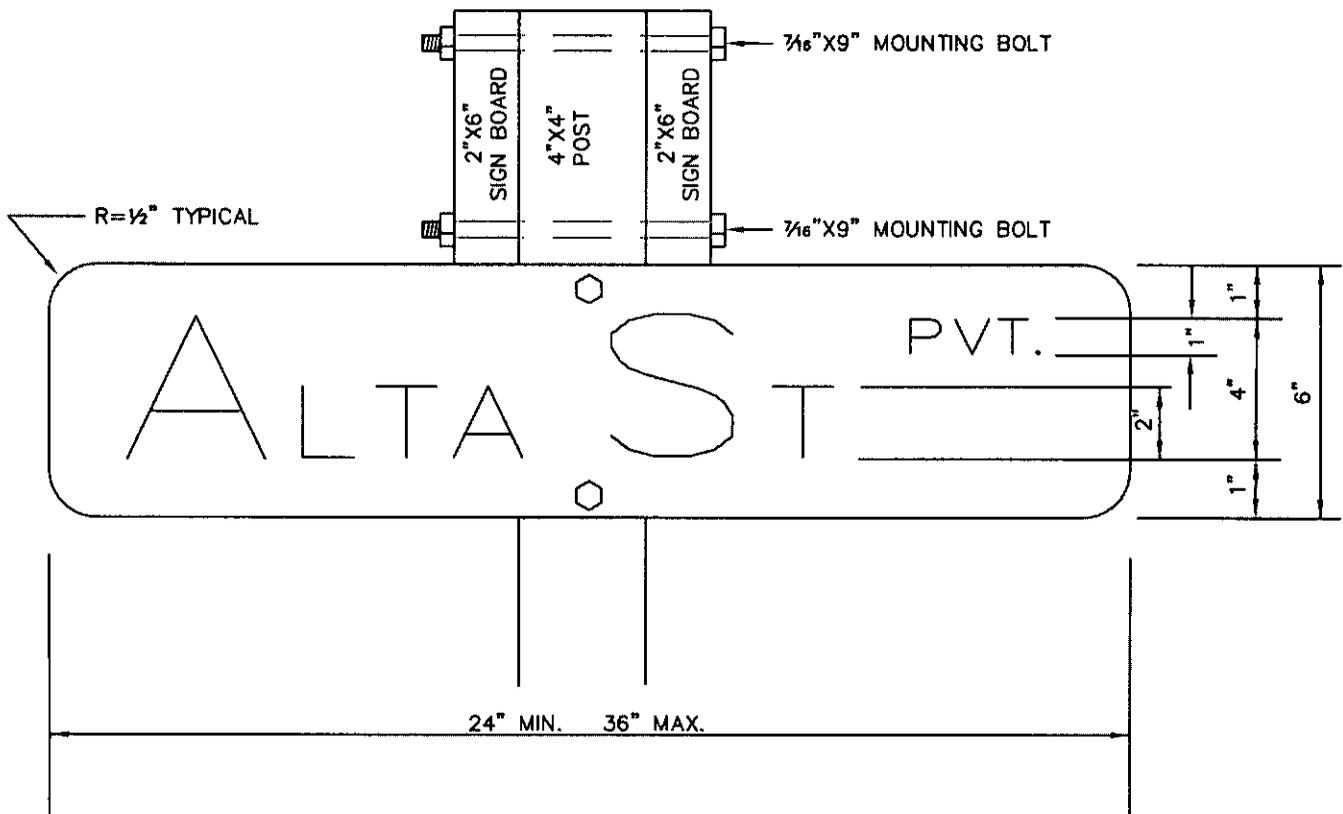
CALL OUT: VCR22I ()

A	(ANODIZED)
BE	(BLUE)
BK	(BLACK)
BN	(BROWN)
GN	(GREEN)
WE	(WHITE)
YW	(YELLOW)
RD	(RED)

JUMBO DRIVE RIVET
(DUAL PURPOSE)

STANDARD FOR:
COUNTY ROAD SIGN
COUNTY STANDARD NO.
S-12
N.T.S.

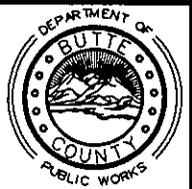


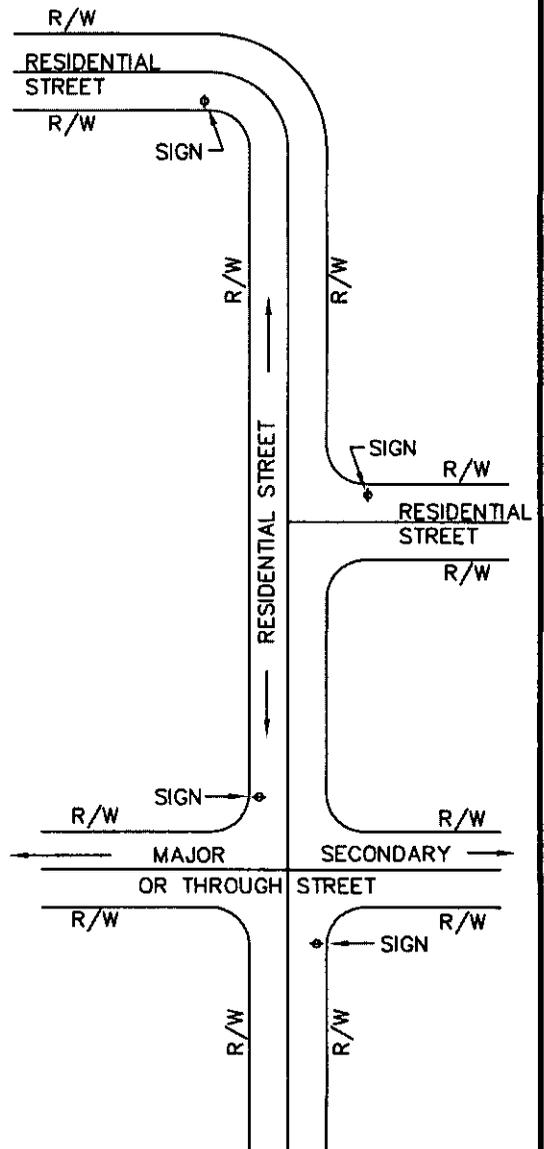
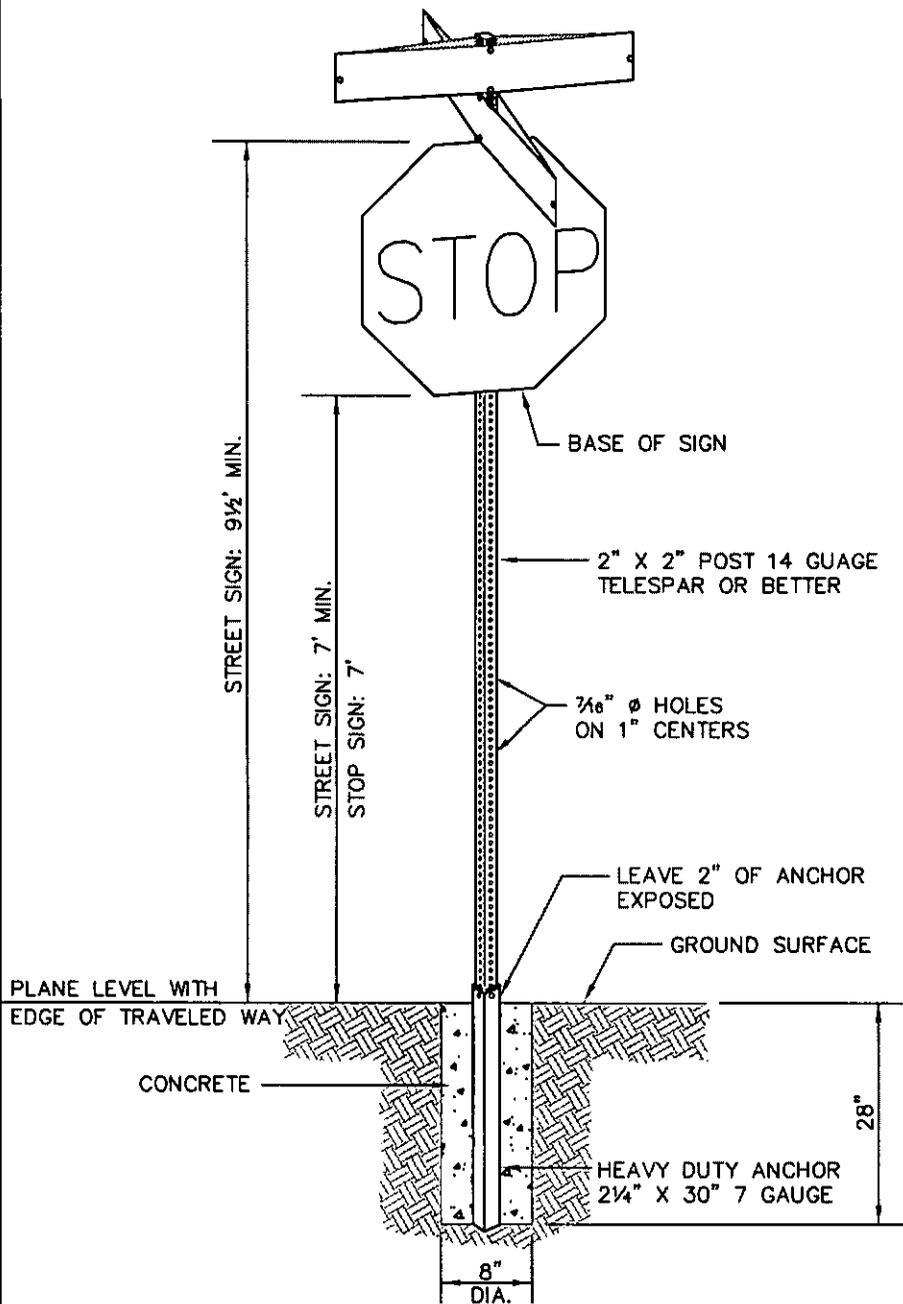


NOTES:

1. REFLECTIVE LETTERS IN CONTRASTING COLOR WITH BACKGROUND.
2. SIGNS SHALL BE READABLE ON BOTH SIDES.
3. SIGNS SHALL BE BOLTED TO A 4"x4" POST SET 3' IN GROUND A MINIMUM OF 5' FROM THE EDGE OF THE EXISTING TRAVELED WAY, THE BASE OF SIGN TO BE 7' ABOVE THE TRAVELED WAY.
4. SEE STANDARD POST DETAIL DRAWING S-13A.
5. CENTER LETTERS ON SIGN AND LEAVE 1/2" MIN. MARGIN ON BOTH ENDS.
6. SIGNS TO INDICATE BOTH ROAD NAMES AT INTERSECTION.
7. SIGNS AT INTERSECTIONS WITH PUBLIC ROADS SHALL BE INSTALLED TO STANDARDS S-12 AND S-13.
8. ALL SIGNS INSTALLED IN THE STATE RESPONSIBILITY AREA (SRA) SHALL BE IN ACCORDANCE WITH STANDARDS S-12 AND S-13

STANDARD FOR:
 PRIVATE ROAD SIGN
 COUNTY STANDARD NO.
 S-12A
 N.T.S.





SIGN POST INSTALLATION

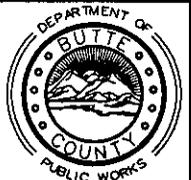
SIGN LOCATION DIAGRAM

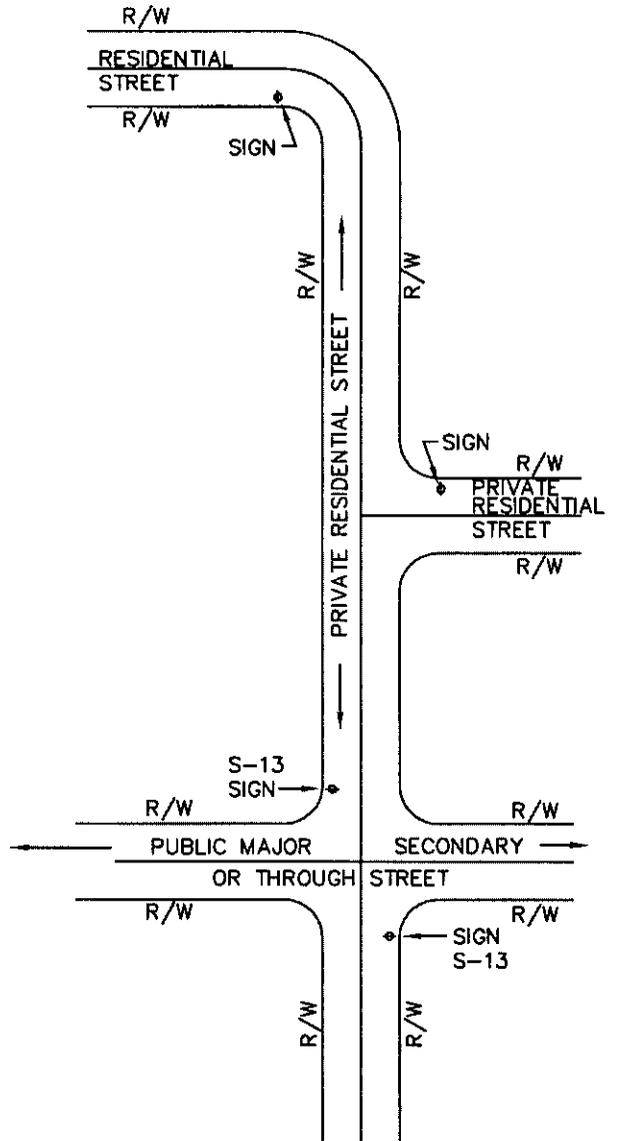
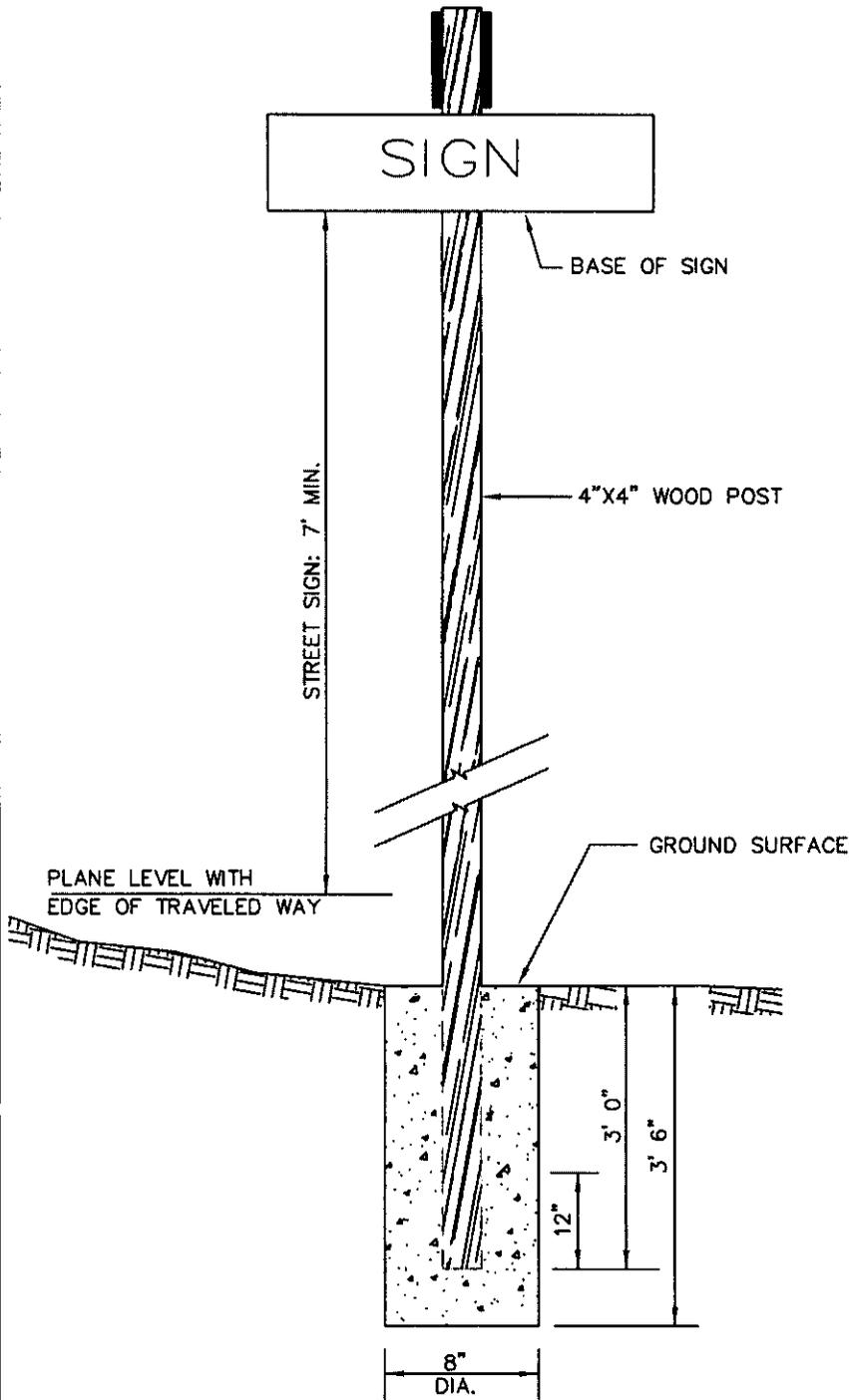
NOTES:

1. WHERE STREET SIGNS AND STOP SIGNS ARE TO BE USED IN THE SAME LOCATION, THEY MAY BE MOUNTED ON THE SAME POST
2. POSTS SHALL BE SET 5' MIN. OFF THE TRAVELED WAY, OR 5' FROM CURB OR FACE OF DIKE.
3. BASE OF STREET SIGN SHALL BE 9½' MINIMUM ABOVE THE PLANE LEVEL WITH THE EDGE OF TRAVELED WAY.
4. BASE OF STOP SIGN SHALL BE 7' ABOVE THE PLANE LEVEL WITH THE EDGE OF TRAVELED WAY.
5. STREET SIGN POST AND STOP SIGN POST 5.5' MAX. FROM TRAVELED WAY.
6. REFER TO STANDARD S-12 FOR SIGN DETAILS.
7. ALL SIGNS INSTALLED IN THE STATE RESPONSIBILITY AREA (SRA) SHALL BE IN ACCORDANCE WITH THIS STANDARD AND STANDARD S-12

STANDARD FOR:
STREET AND STOP SIGN POST DETAILS
COUNTY STANDARD NO.

S-13
N.T.S.



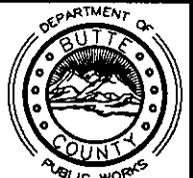


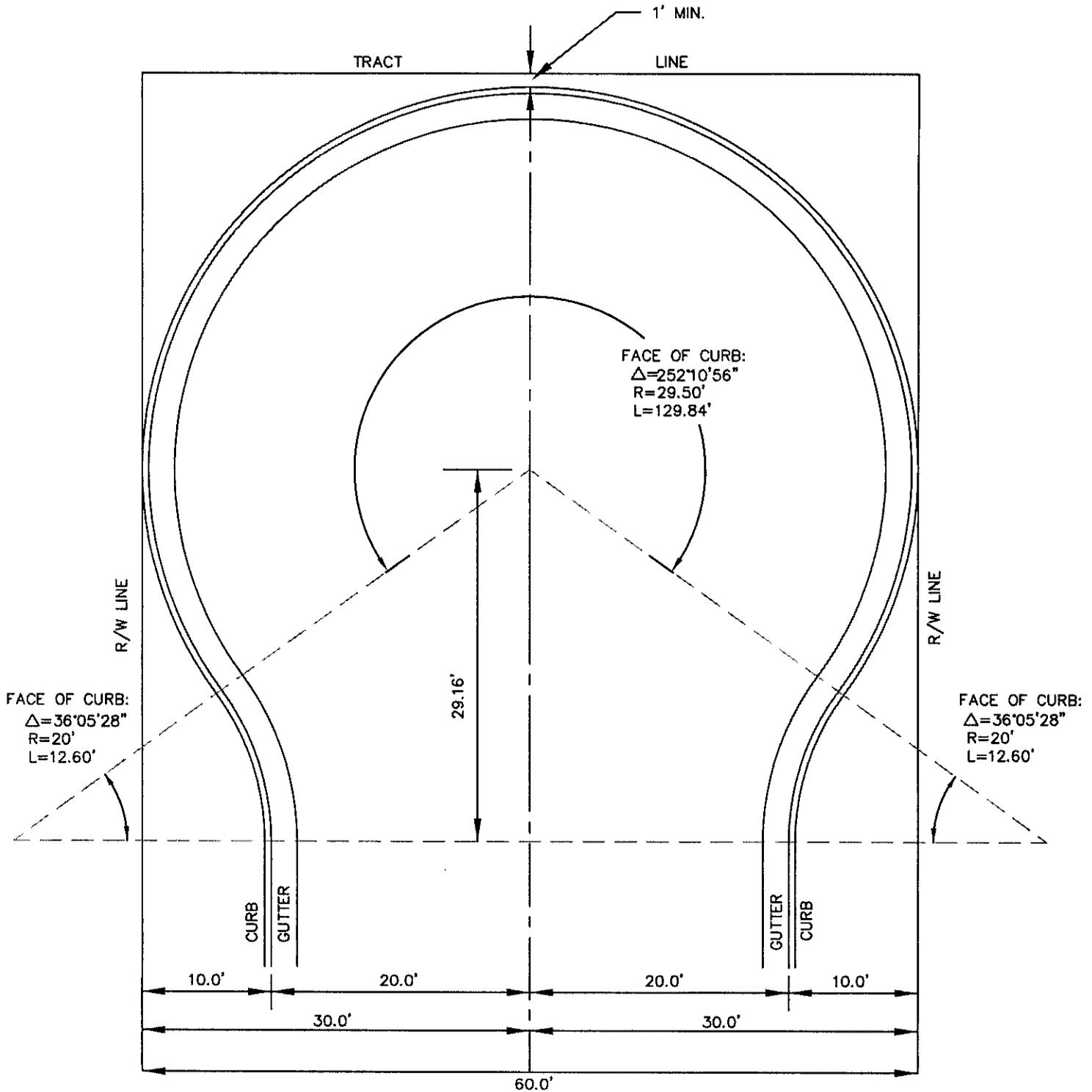
SIGN POST INSTALLATION SIGN LOCATION DIAGRAM

NOTES:

1. POSTS SHALL BE SET 5' MIN. TO 30' MAX. OFF THE TRAVELED WAY, OR 5' FROM CURB OR FACE OF DIKE.
2. BASE OF STREET SIGN SHALL BE 7' MINIMUM ABOVE THE PLANE LEVEL WITH THE EDGE OF TRAVELED WAY.
3. REFER TO STANDARD S-12A FOR SIGN DETAILS
4. SIGNS AT INTERSECTIONS WITH PUBLIC ROADS SHALL BE IN ACCORDANCE WITH STANDARDS S-12 AND S-13
5. ALL SIGNS INSTALLED IN THE STATE RESPONSIBILITY AREA (SRA) SHALL BE IN ACCORDANCE WITH STANDARDS S-12 AND S-13

STANDARD FOR:
PRIVATE STREET NAME SIGN POST DETAILS
COUNTY STANDARD NO.
S-13A
N.T.S.





NOTE: ALL CURVE DATA IS TO FACE OF CURB.
 TOTAL CURB & GUTTER = 155.04'

STANDARD FOR:
 TEMPORARY CUL-DE-SAC
 COUNTY STANDARD NO.
 S-14
 N.T.S.



R/W LINE

4' SIDEWALK

CURB FACE

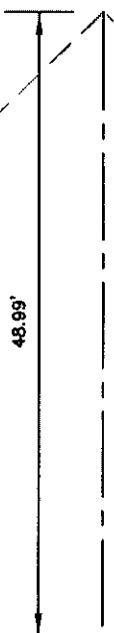
R/W LINE DATA

$\Delta = 268^{\circ}49'50''$
 $R = 50.00'$
 $L = 234.60'$

CURB FACE DATA

$\Delta = 268^{\circ}49'50''$
 $R = 40.00'$
 $L = 187.68'$

GUTTER



48.99'

R/W LINE DATA

$\Delta = 44^{\circ}24'55''$
 $R = 20.00'$
 $L = 15.50'$

R/W LINE DATA

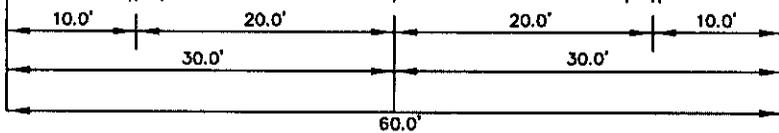
$\Delta = 44^{\circ}24'55''$
 $R = 20.00'$
 $L = 15.50'$

CURB FACE DATA

$\Delta = 44^{\circ}24'55''$
 $R = 30.00'$
 $L = 23.26'$

CURB FACE DATA

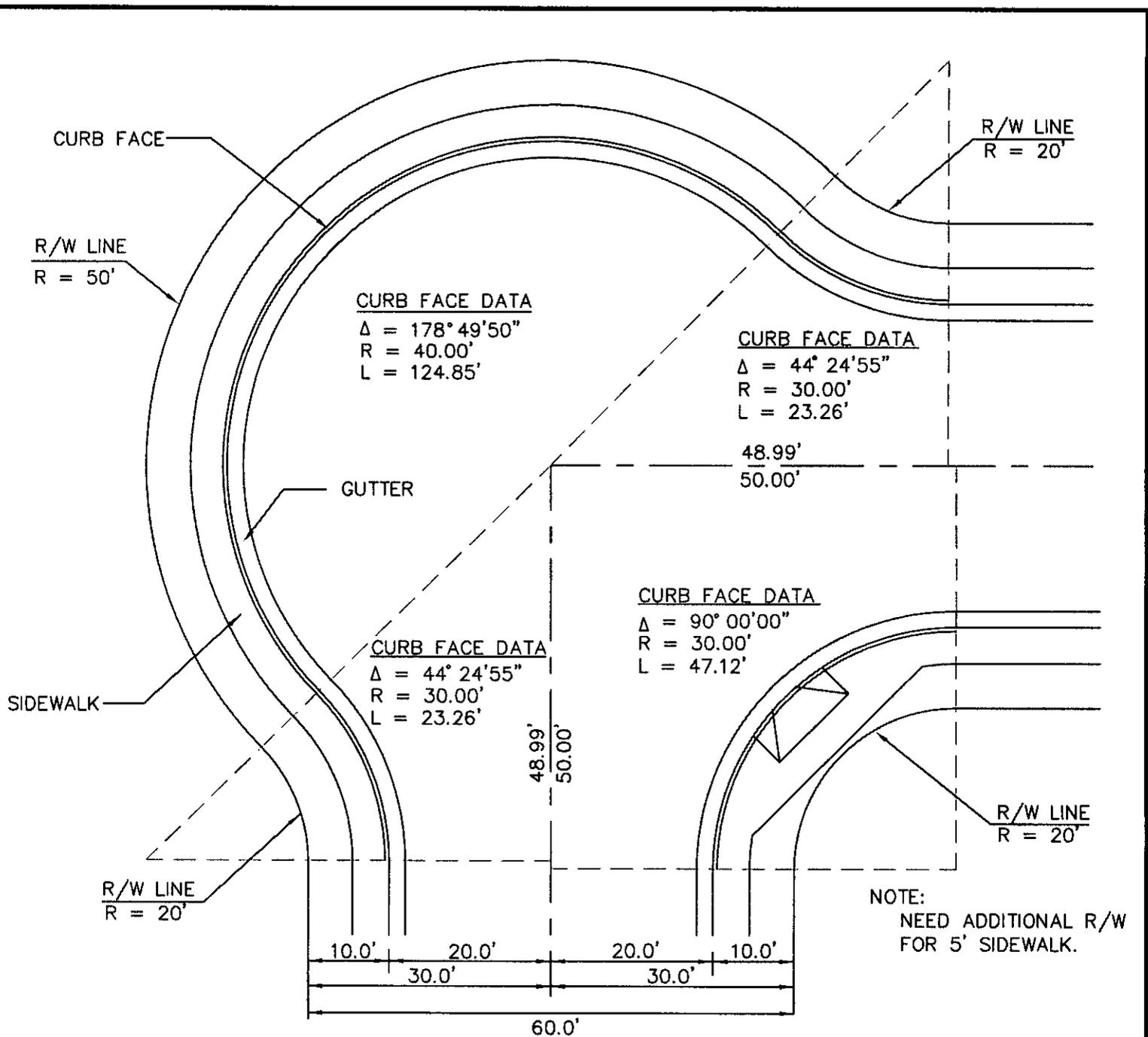
$\Delta = 44^{\circ}24'55''$
 $R = 30.00'$
 $L = 23.26'$



ITEM	QUANTITIES (4' SW)	QUANTITIES (5' SW)
VERTICAL CURB & GUTTER	234.20 LF	234.20 LF
SIDEWALK	242.05 LF	243.62 LF

STANDARD FOR:
PERMANENT CUL-DE-SAC
COUNTY STANDARD NO.
S-15
N.T.S.

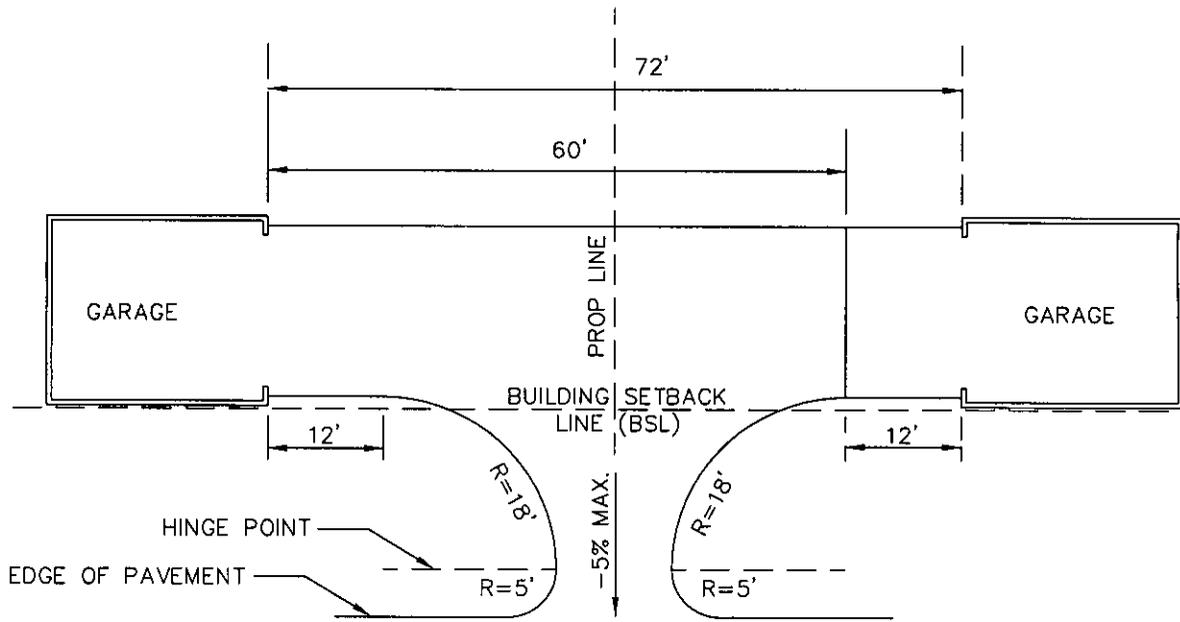




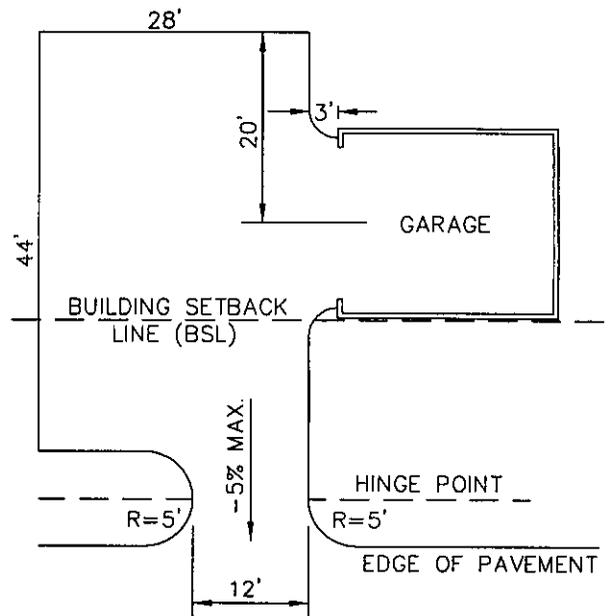
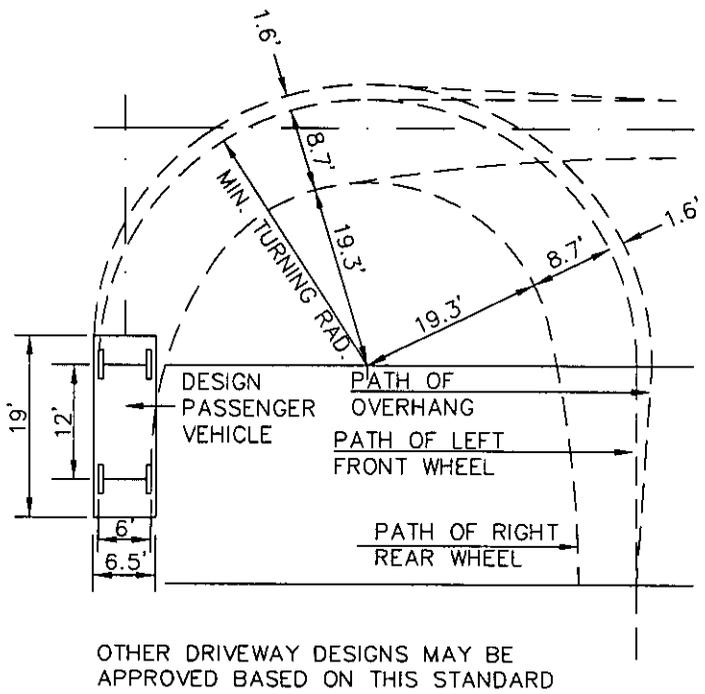
ITEM	QUANTITIES (4' SW)	QUANTITIES (5' SW)
AREA	5605 SF	5605 SF
VERTICAL CURB & GUTTER	47.12 LF	47.12 LF
ROLLED CURB & GUTTER	171.37 LF	171.37 LF
SIDEWALK (INCLUDES PED. RAMP)	969 SF	1187 SF

STANDARD FOR:
 OFFSET CUL-DE-SAC
 COUNTY STANDARD NO.
 S-15A
 N.T.S.





NOTE: PROPERTY LINE AT CENTER LINE OF DRIVEWAY ONLY WHEN BOTH OWNERS USE SAME DRIVEWAY

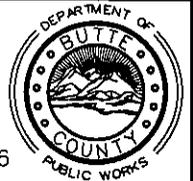


NOTE: THESE STANDARDS APPLY ONLY WHEN GARAGE AND TURNING AREA ARE NEAR ROAD GRADE & NEAR R/W.

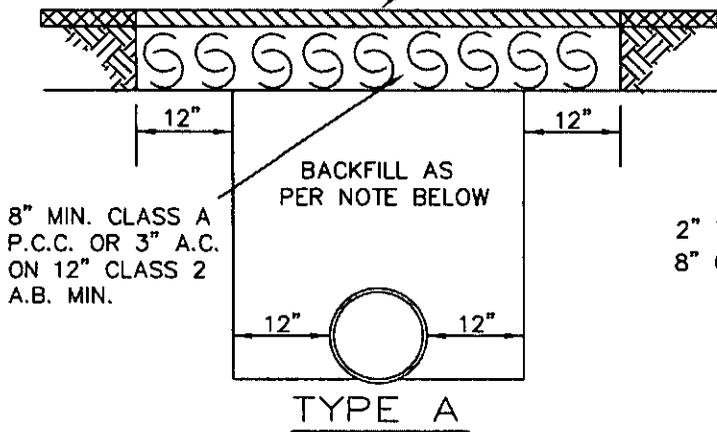
DRIVEWAYS FOR:
RURAL - HILLSIDE MOUNTAIN REC. AREAS
COUNTY STANDARD NO.

S-16
N.T.S.

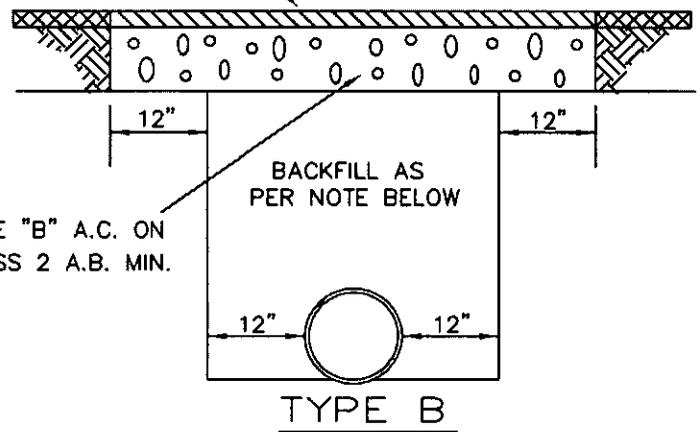
RES 06-149 10/24/06



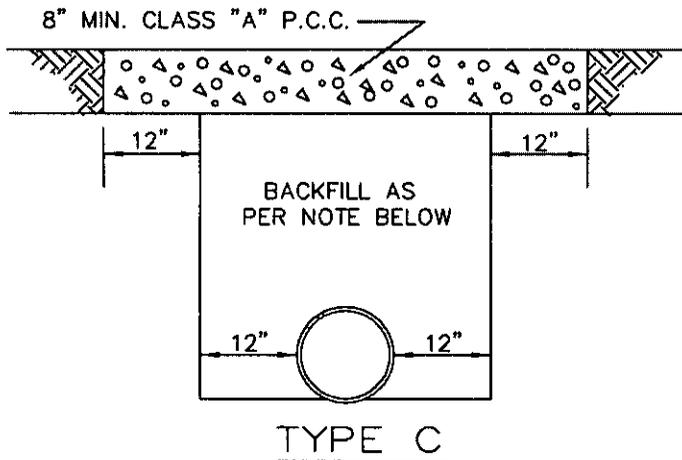
SEAL COAT - SEE NOTE BELOW



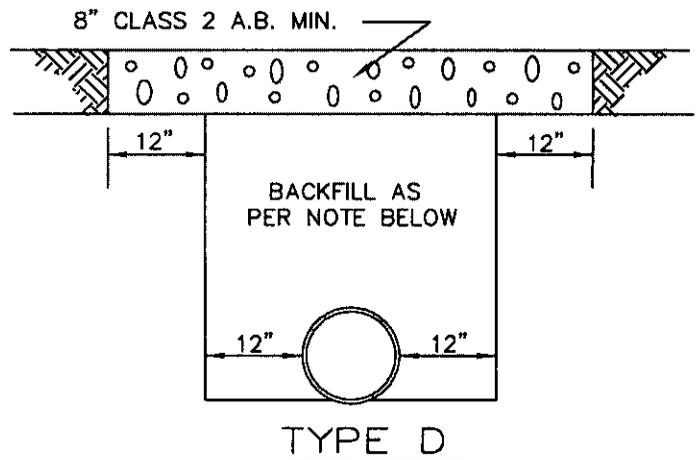
ASPHALT CONCRETE STREETS



ARMOR COAT OR SEAL COAT STREETS



PORTLAND CEMENT CONCRETE STREETS



UNIMPROVED STREETS, ALLEYS OR EASEMENTS

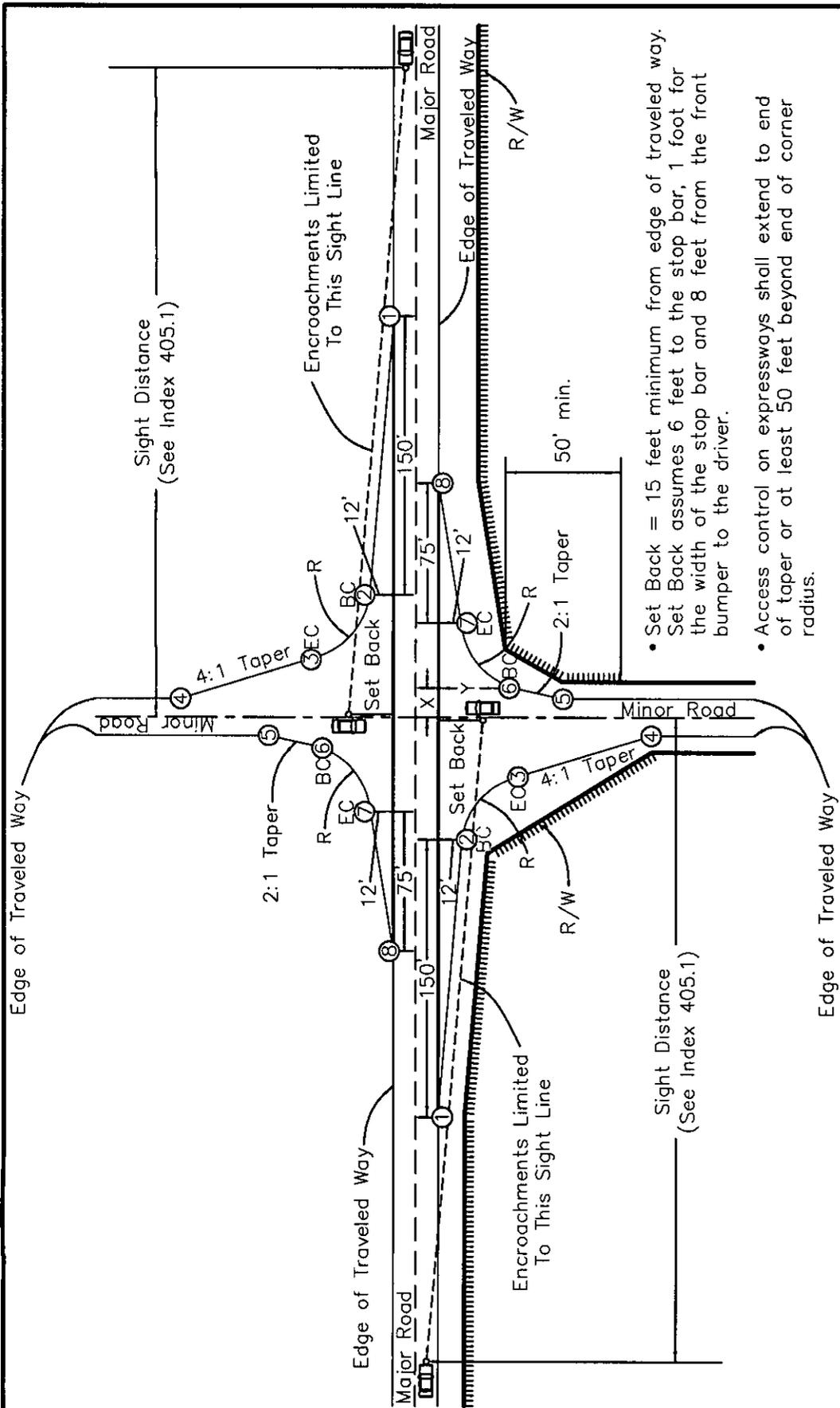
NOTES:

- 1 ALL WORK SHOWN ABOVE SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS
- 2 ALL EXCAVATION WITHIN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED IN ACCORDANCE WITH SECTION 19-3 OF THE STANDARD SPECIFICATIONS. MIN. SE = 30 , 95% REL COMPACTION FULL DEPTH.
- 3 AREA ADJACENT TO THE TRENCH SHALL BE LEFT IN A CONDITION EQUAL TO OR BETTER THAN THAT EXISTING PRIOR TO CONSTRUCTION.
- 4 SEAL COAT-BITUMINOUS BINDER SHALL BE COVERED WITH EITHER SAND OR SCREENINGS TO MATCH EXISTING SURFACE.
- 5 STRUCTURAL SECTION ELEMENTS MAY BE INCREASED WHERE REQUIRED BY THE DEPARTMENT OF PUBLIC WORKS DUE TO SOIL CONDITIONS AND TRAFFIC CONSIDERATIONS. THE REPLACEMENT STRUCTURAL SECTION SHALL EQUAL THE EXISTING STRUCTURAL SECTION AS A MINIMUM REQUIREMENT, EXCEPT THAT THE SECTION SHOWN ABOVE IS AN ABSOLUTE MINIMUM.
- 6 ASPHALT CONCRETE SHALL BE TYPE 'B', 3/4" MAXIMUM MEDIUM GRADING.
- 7 AGGREGATE BASE SHALL BE CLASS 2, 3/4" MAXIMUM GRADING.

TYPICAL DETAILS OF PAVEMENT
REPLACEMENT AND BACKFILL REQUIREMENTS
COUNTY STANDARD NO.

S-17
N.T.S.



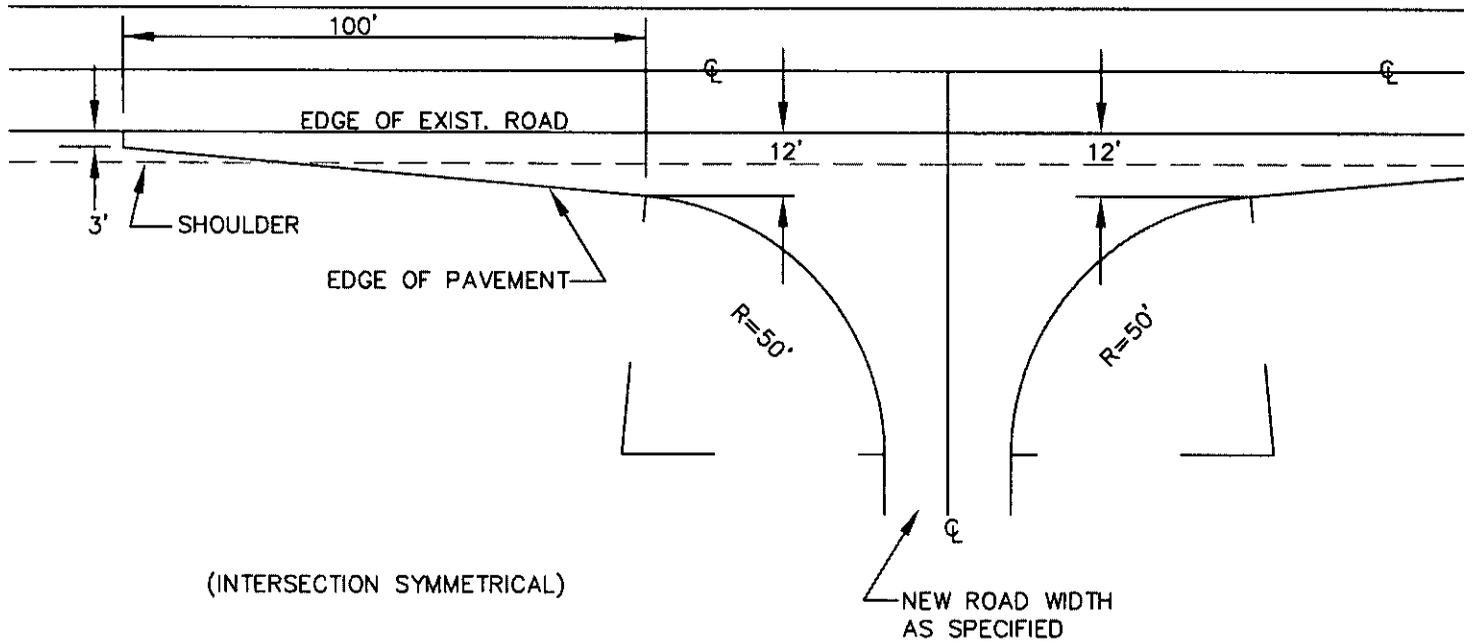


- Set Back = 15 feet minimum from edge of traveled way. Set Back assumes 6 feet to the stop bar, 1 foot for the width of the stop bar and 8 feet from the front bumper to the driver.
- Access control on expressways shall extend to end of taper or at least 50 feet beyond end of corner radius.

X - Distance measured from centerline of minor road along major road - FT.
 Y - Offset distance measured from edge of traveled way of major road to any given point - FT.

Radius of Curve	Pt ①		Pt ②		Pt ③		Pt ④		Pt ⑤		Pt ⑥		Pt ⑦		Pt ⑧	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
30'	204.20	0.0	54.20	12.0	27.49	34.63	12.0	96.58	12.0	40.66	18.23	28.21	40.32	12.0	115.32	0.0
40'	215.08	0.0	65.08	12.0	29.46	42.17	12.0	112.03	12.0	53.35	21.87	33.61	51.33	12.0	126.33	0.0
50'	226.09	0.0	76.09	12.0	31.57	49.71	12.0	127.98	12.0	75.63	30.31	39.01	67.13	12.0	142.13	0.0

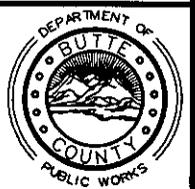


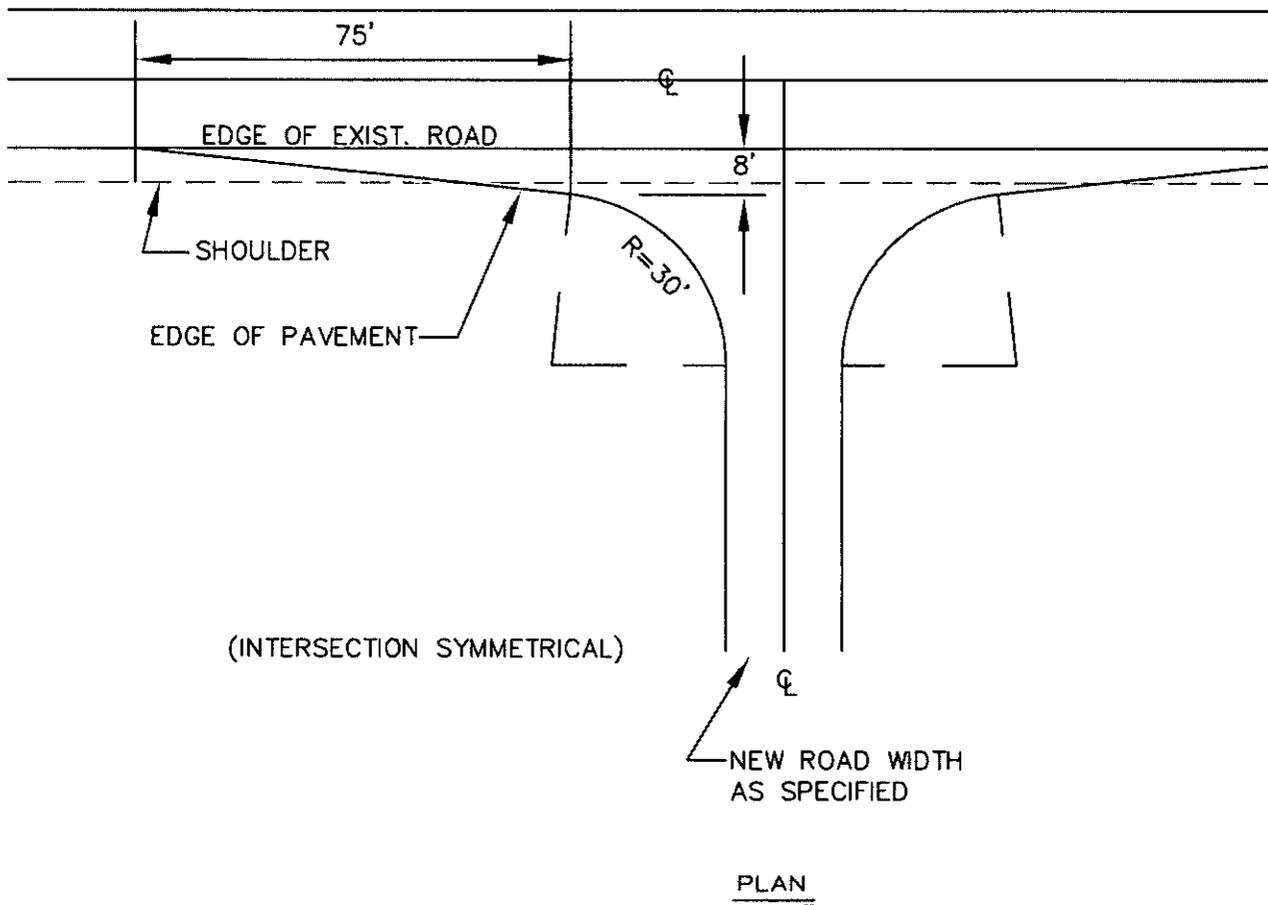


(INTERSECTION SYMMETRICAL)

PLAN

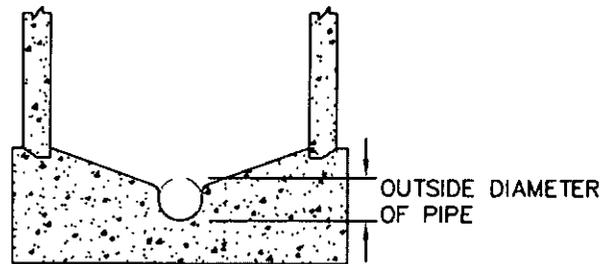
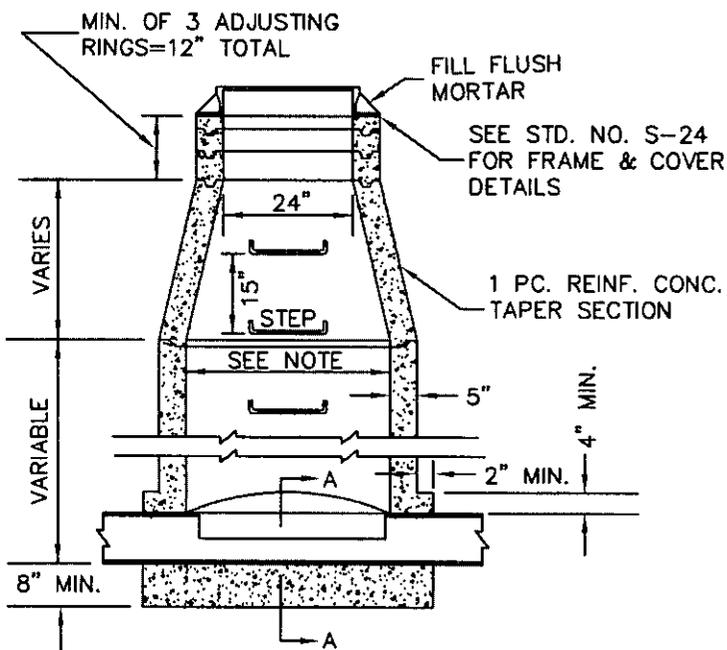
DEPARTMENT OF PUBLIC WORKS
 COLLECTOR PUBLIC ROAD CONNECTION
 COUNTY STANDARD NO.
 S-18A
 N.T.S.





DEPARTMENT OF PUBLIC WORKS
 LOCAL PUBLIC ROAD CONNECTION
 COUNTY STANDARD NO.
 S-18B
 N.T.S.

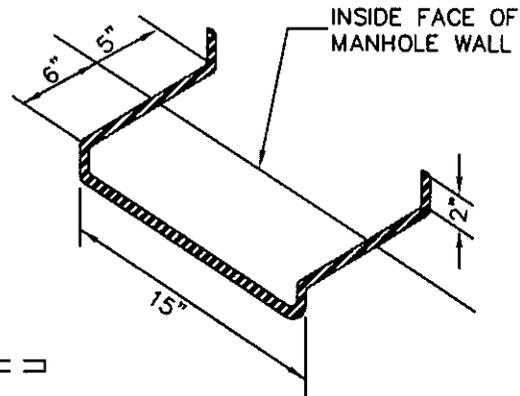
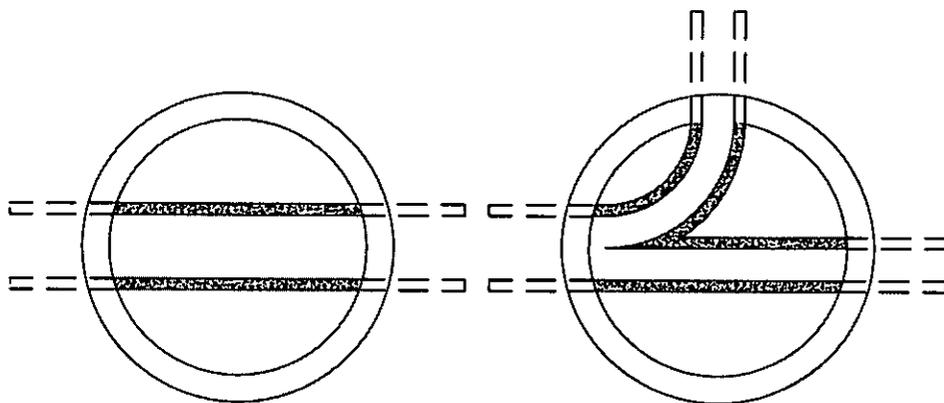




SECTION A - A

NOTE: 5' 0" DIA. M.H. FOR 39" TO 48" PIPE.
4' 0" DIA. M.H. FOR 36" AND SMALLER PIPE.

STANDARD MANHOLE 48"

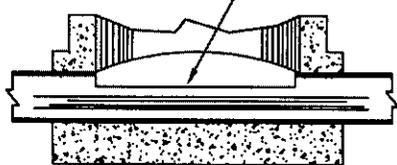


TO BE FABRICATED OF $\frac{3}{8}$ " STEEL ROD & GALVANIZED

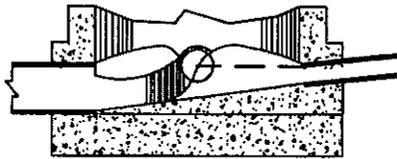
STEPS NOT REQUIRED UNLESS SPECIFIED IN SPECIAL PROVISIONS

MANHOLE STEP DETAIL

BREAK AWAY TOP $\frac{1}{4}$ OF PIPE



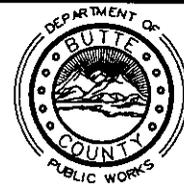
SECTION OF PIPE CONTINUOUS THROUGH M.H.

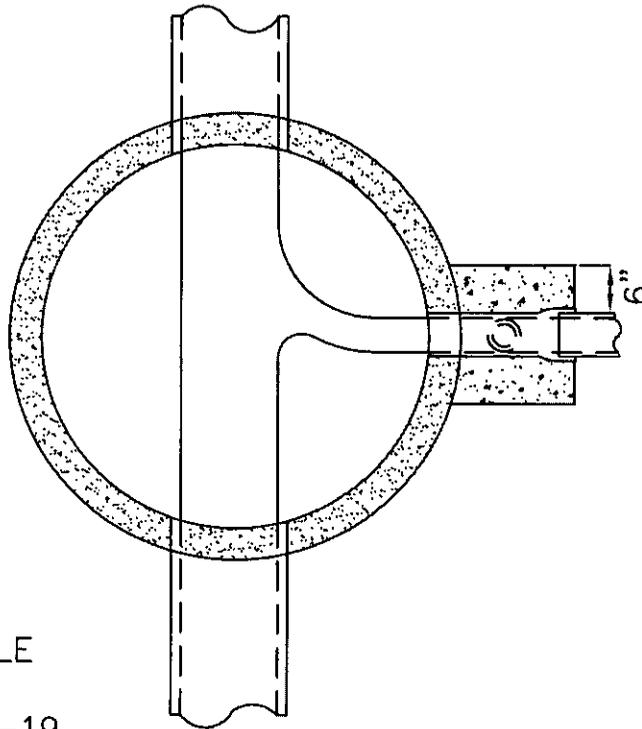


JUNCTION M.H. BETWEEN DIFF. PIPE SIZES

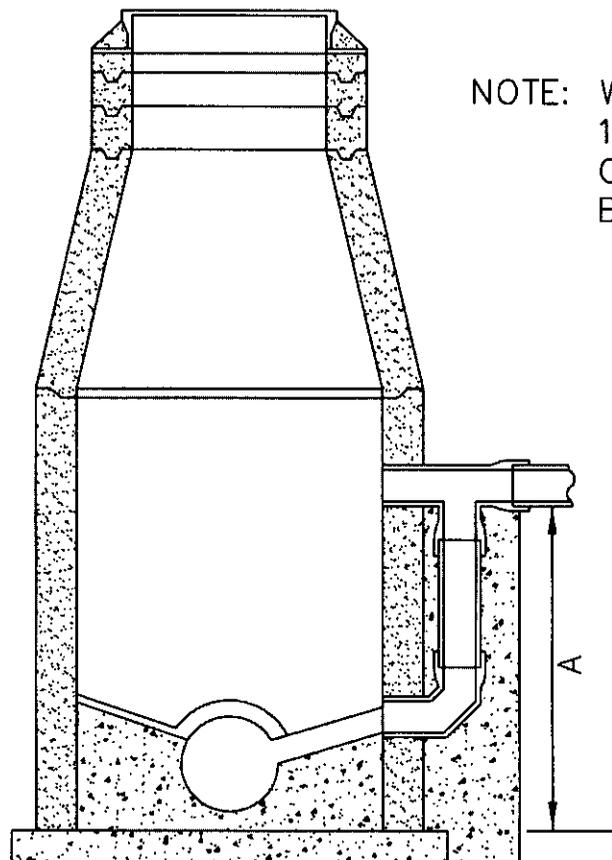
SHAPING BOTTOM OF MANHOLE

DEPARTMENT OF PUBLIC WORKS
STANDARD MANHOLE
COUNTY STANDARD NO.
S-19
N.T.S.



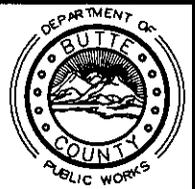


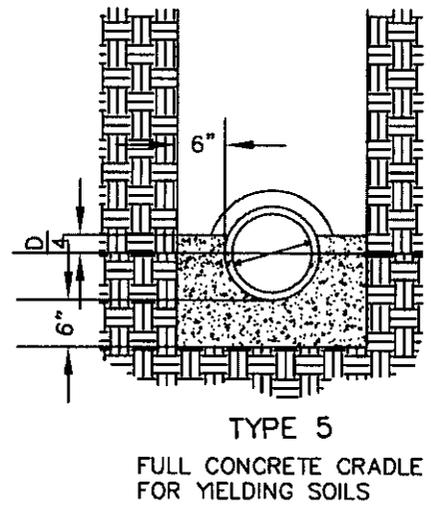
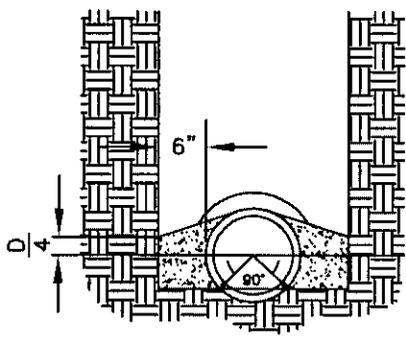
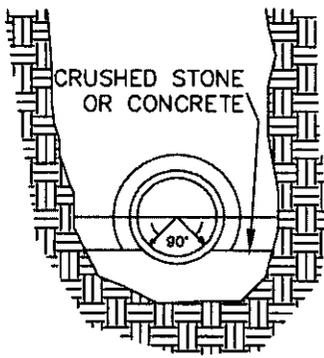
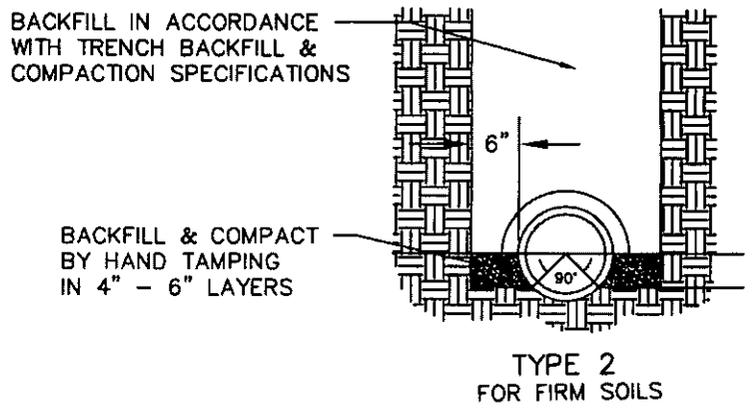
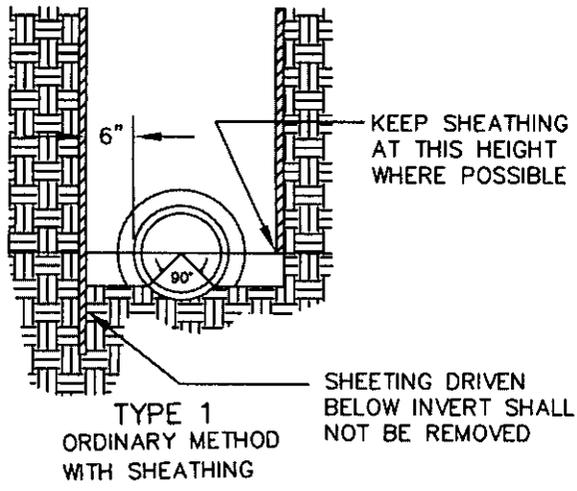
NOTE: FOR STD. MANHOLE
DIMENSIONS SEE
STANDARD NO. S-19



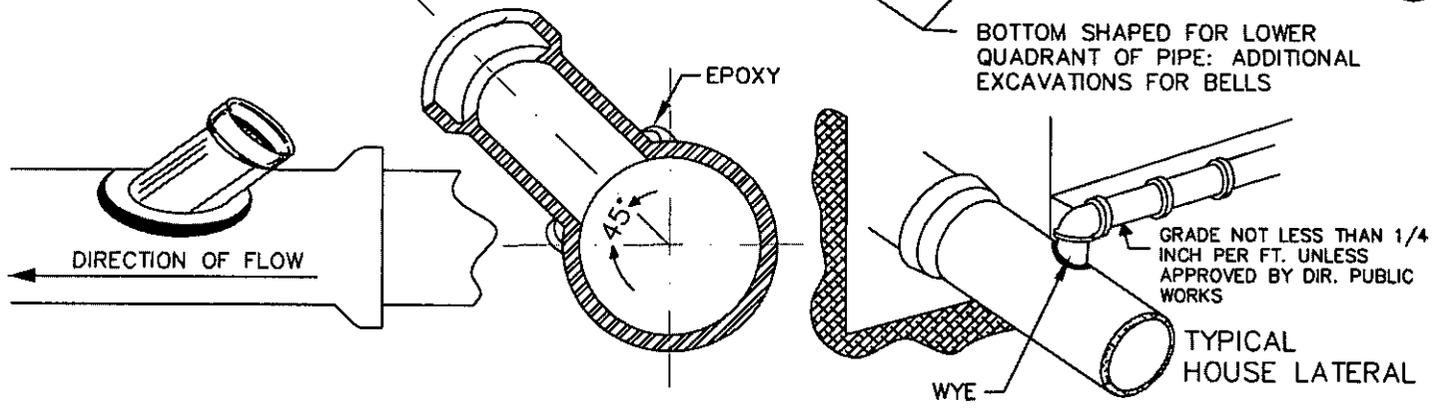
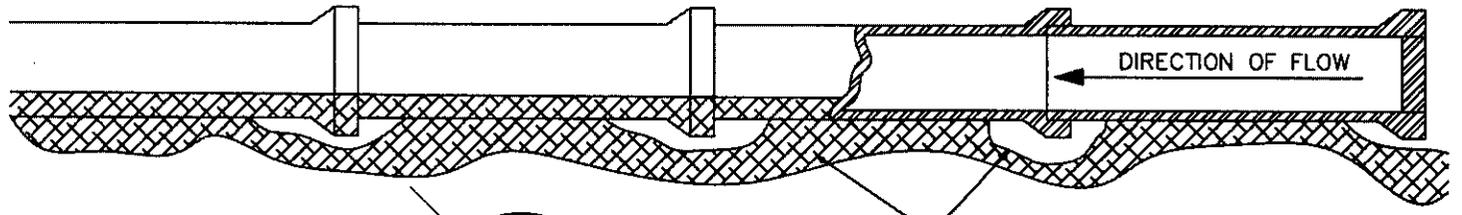
NOTE: WHEN "A" EXCEEDS
18" DROP TYPE
CONNECTION MUST
BE INSTALLED

DEPARTMENT OF PUBLIC WORKS
STANDARD DROP MANHOLE
COUNTY STANDARD NO.
S-20
N.T.S.



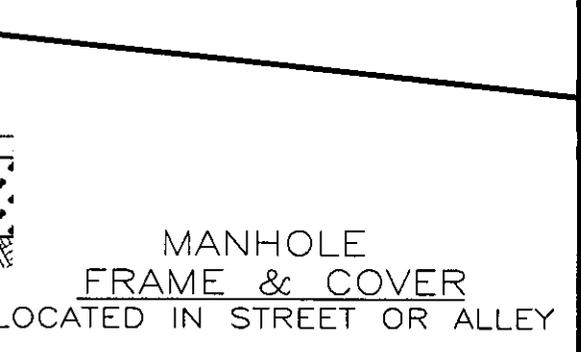
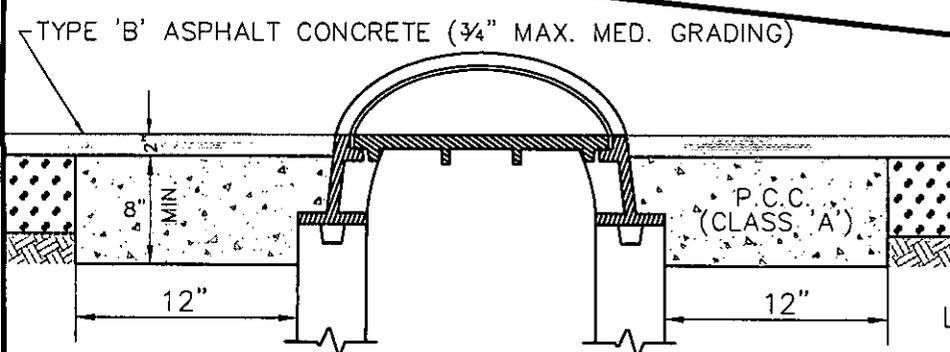
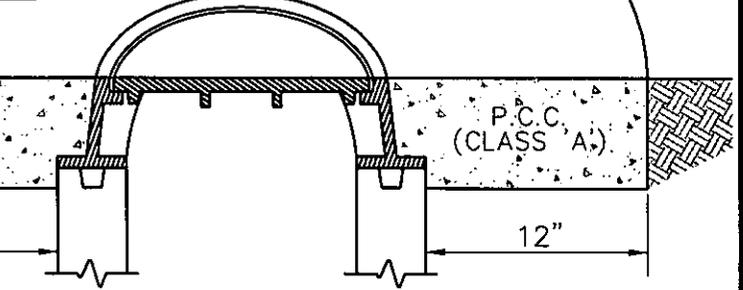
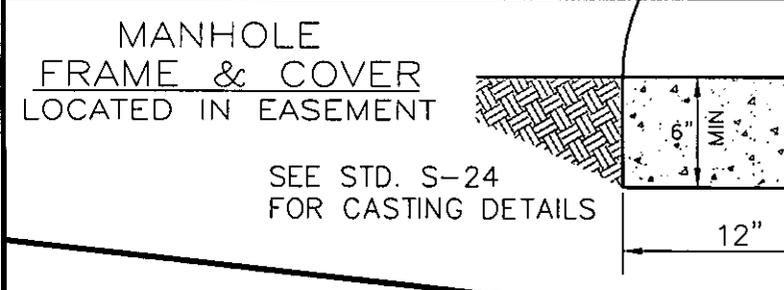
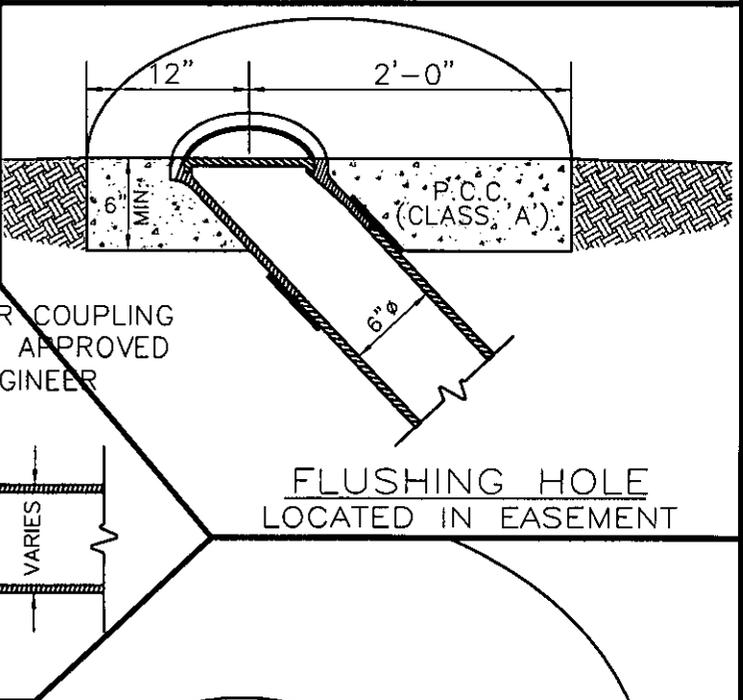
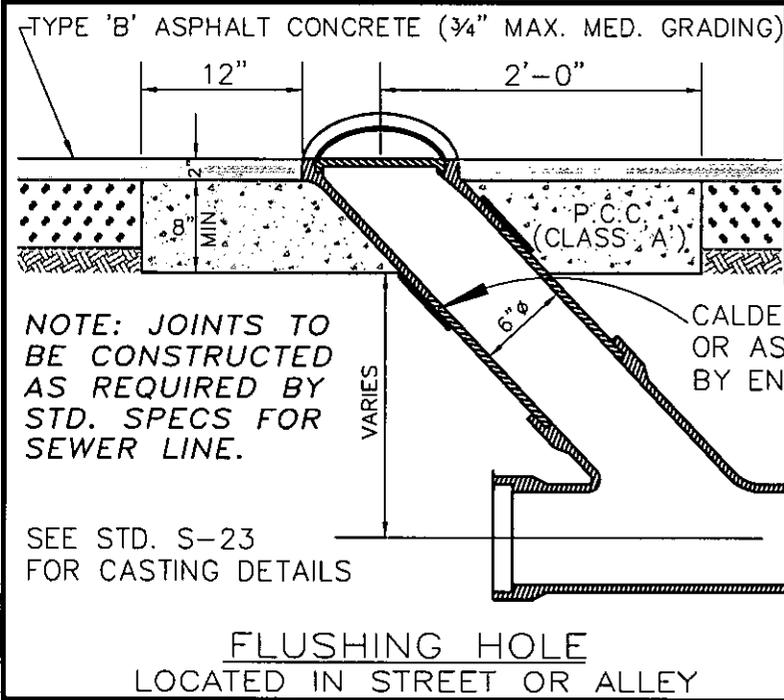
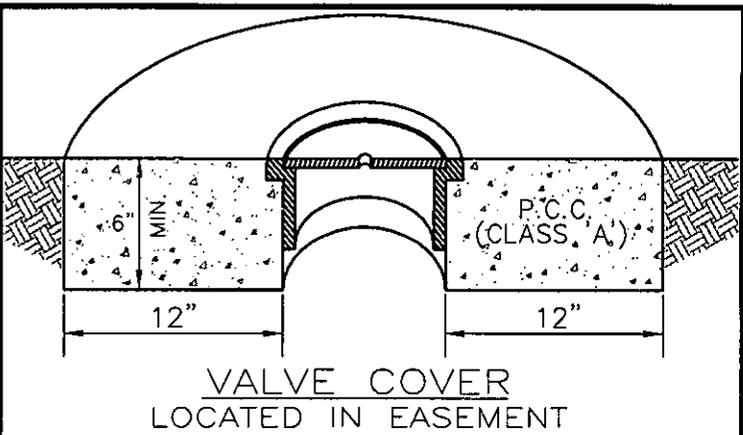
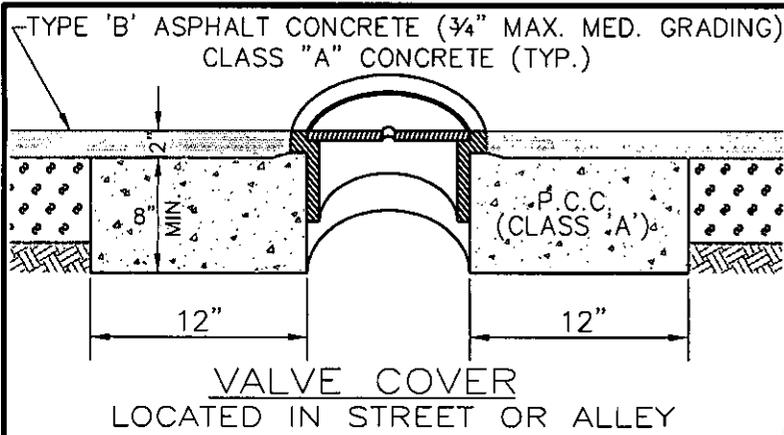


START LAYING PIPE AT LOW END & BUILD AGAINST DIRECTION OF FLOW

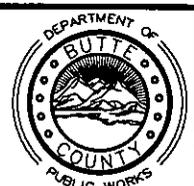


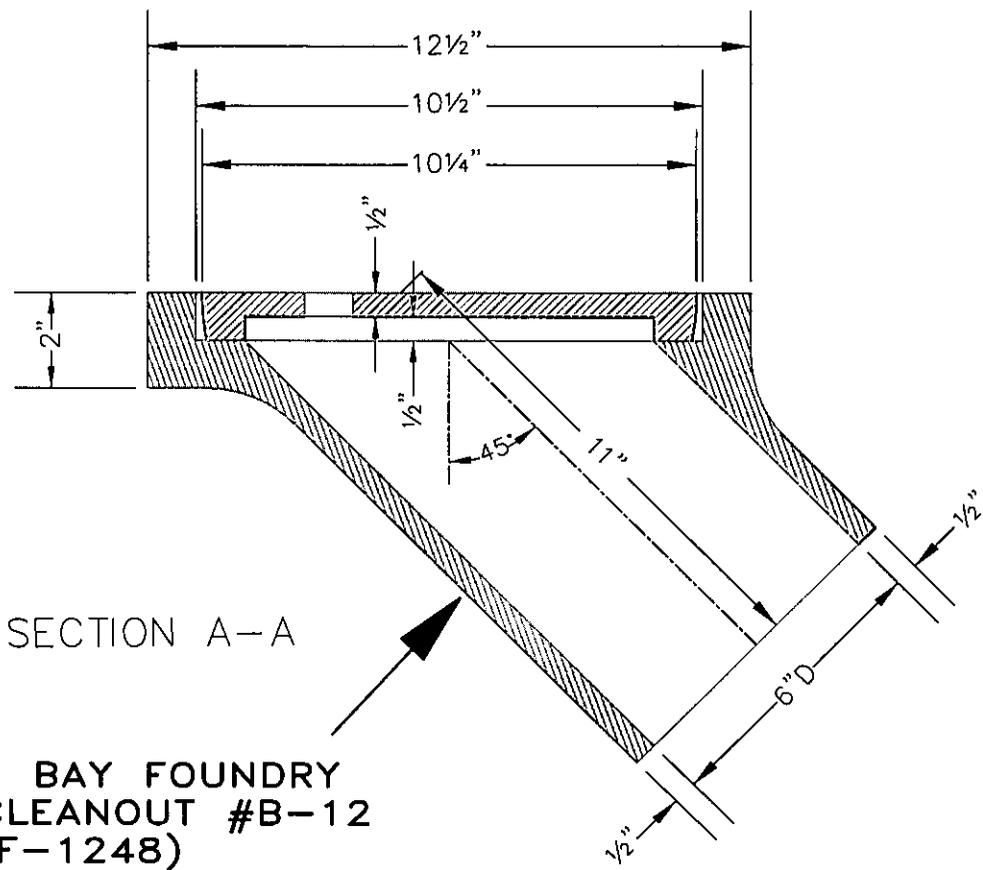
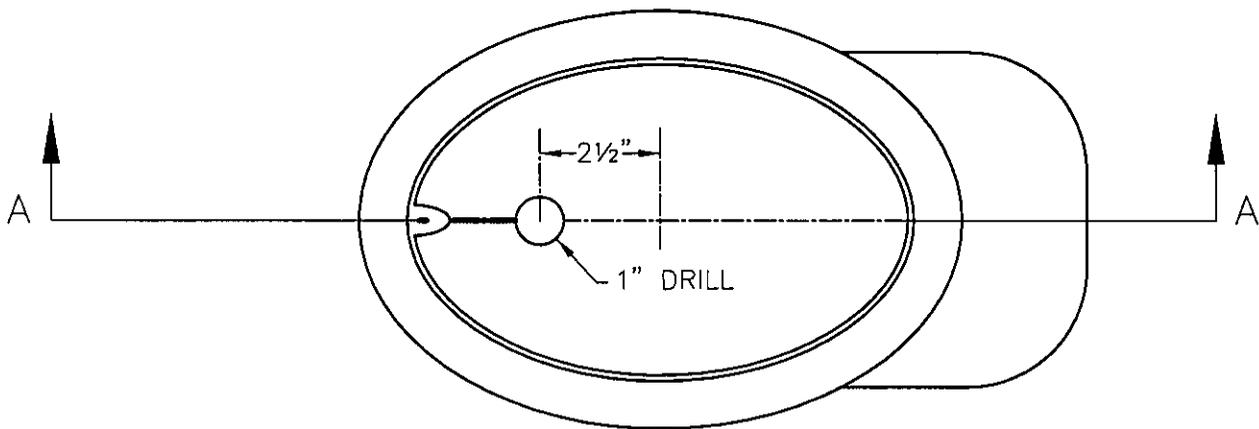
DEPARTMENT OF PUBLIC WORKS
APPROVED METHODS OF LAYING PIPE
COUNTY STANDARD NO.
S-21
N.T.S.





DEPARTMENT OF PUBLIC WORKS
TYPICAL METHOD FOR SETTING APPURTENANCES
COUNTY STANDARD NO.
S-22
N.T.S.





SOUTH BAY FOUNDRY
SEWER CLEANOUT #B-12
(SBF-1248)

SEE STD. S-22 FOR METHOD OF INSTALLATION & RISER CONSTRUCTION.

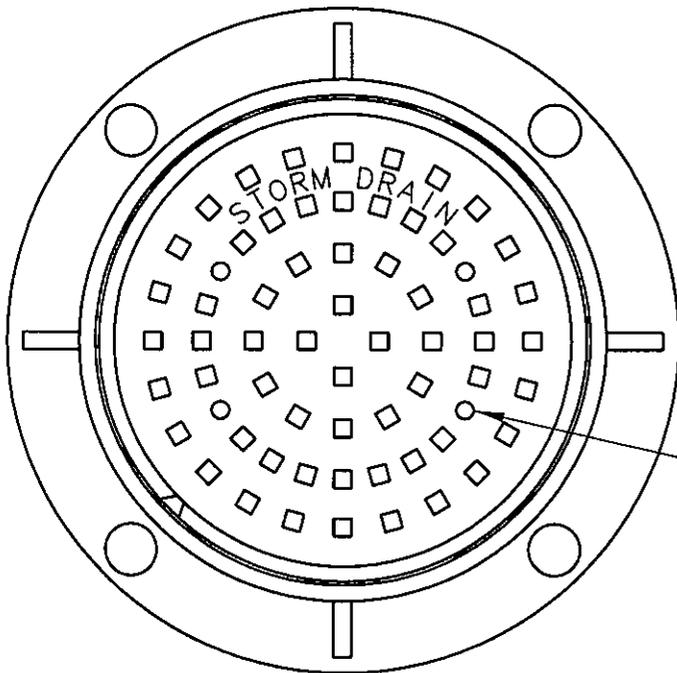
DEPARTMENT OF PUBLIC WORKS
STANDARD FLUSHING HOLE C.I. FRAME & COVER
COUNTY STANDARD NO.
S-23
N.T.S.



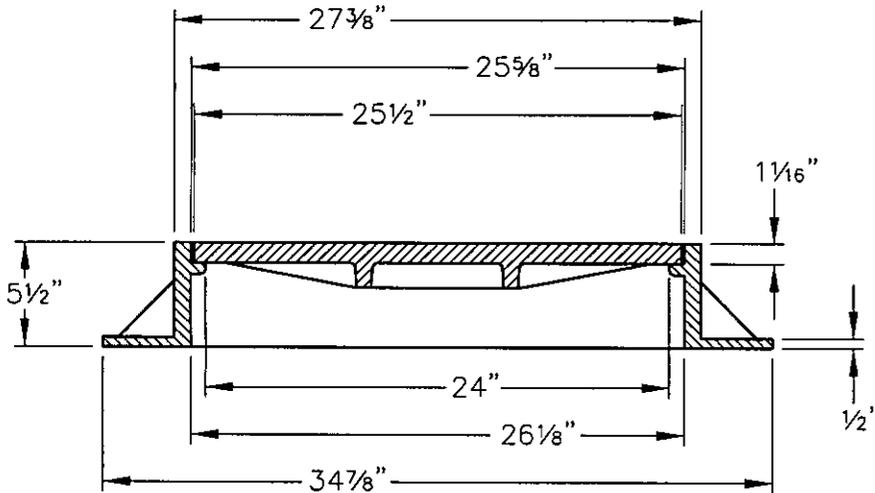
SBF 107 (1940)

SET WEIGHT

FRAME	130 LBS
COVER	147 LBS
TOTAL	277 LBS



1" PICK HOLE



GENERAL INFORMATION

ALL MATERIALS USED IN MANUFACTURING SHALL CONFORM TO ASTM 48, CLASS 35B.

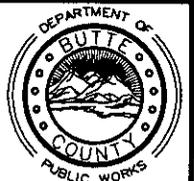
FRAME AND COVER BEARING SURFACES SHALL BE MACHINED TO ASSURE CLOSE, TIGHT FIT.

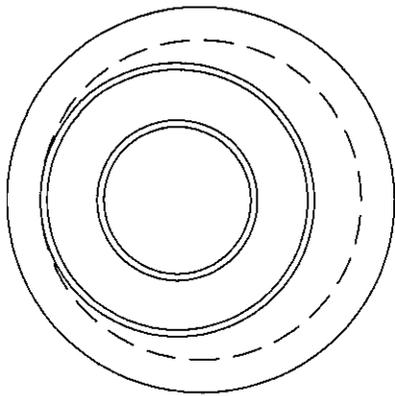
CASTINGS SHALL BE DIPPED IN BLACK BITUMINOUS PAINT.

FRAME AND COVER SHALL EXCEED HS-20 WHEEL LOADING.

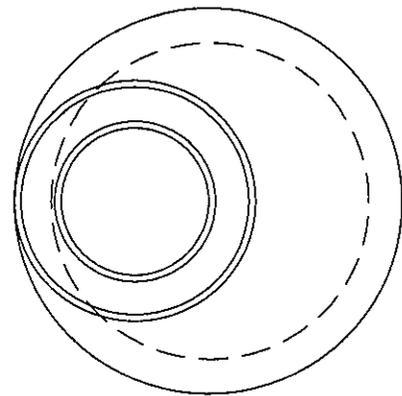
**SOUTH BAY FOUNDRY
NO. A 55 OR EQUAL**

DEPARTMENT OF PUBLIC WORKS
STANDARD MANHOLE FRAME & COVER DETAILS
COUNTY STANDARD NO.
S-24
N.T.S.

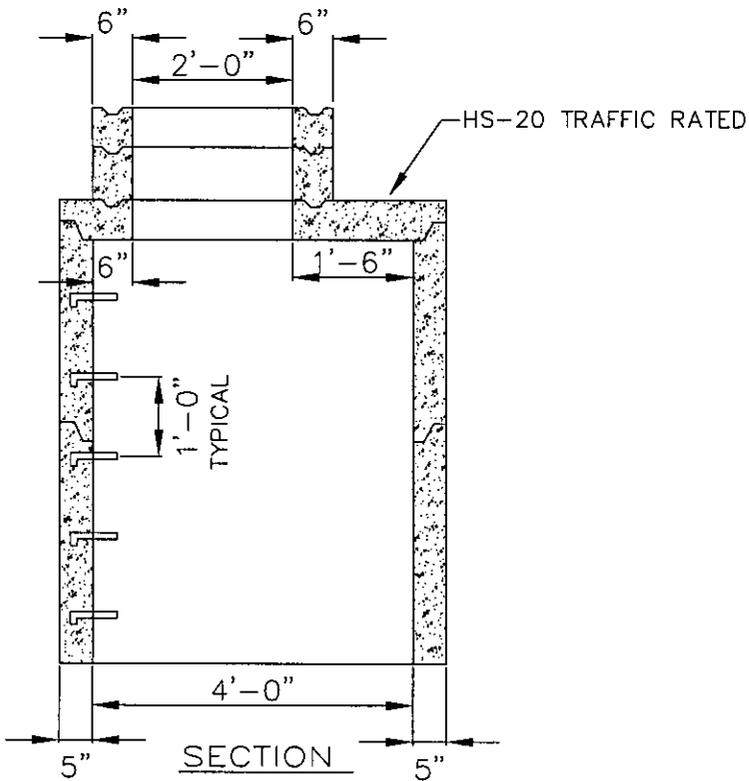




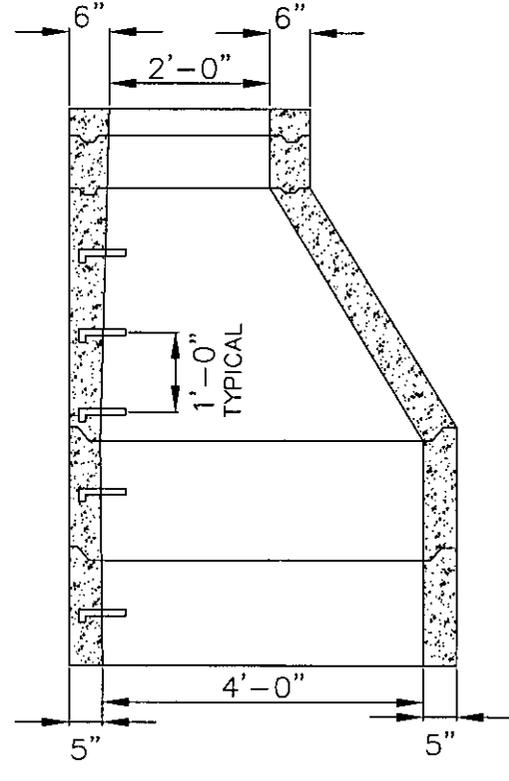
PLAN OF MANHOLE WITH
"SHALLOW" LID



PLAN OF MANHOLE WITH
ECCENTRIC TAPER



NOT ALLOWED IN ROAD RIGHT OF WAY
OR TRAFFIC AREAS



DEPARTMENT OF PUBLIC WORKS
ECCENTRIC MANHOLE DETAILS
COUNTY STANDARD NO.
S-25
N.T.S.



USE COUNTY OF BUTTE
STD. S-24 MANHOLE
FRAME AND COVER
DETAIL.

3" OR 6" GRADE
ADJUSTING RINGS

O.G.
1' MIN. TO
TOP OF
TAPER

USE 1 PC. REINF.
CONC. ECCENTRIC
TAPER SECTION AS
PER COUNTY OF
BUTTE
STD. S-25

LENGTHS OF
1-2-3 FOOT
SECTIONS
(OPTIONAL)

1'
TYPICAL

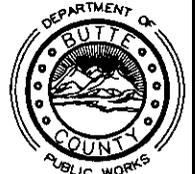
5'

VARIABLE TO
54" MAXIMUM
C-I-P-C-P

CONCRETE

TYPICAL PRECAST CONCRETE MANHOLE

DEPARTMENT OF PUBLIC WORKS
ECCENTRIC MANHOLE FOR C-I-P-C-P
COUNTY STANDARD NO.
S-26
N.T.S.



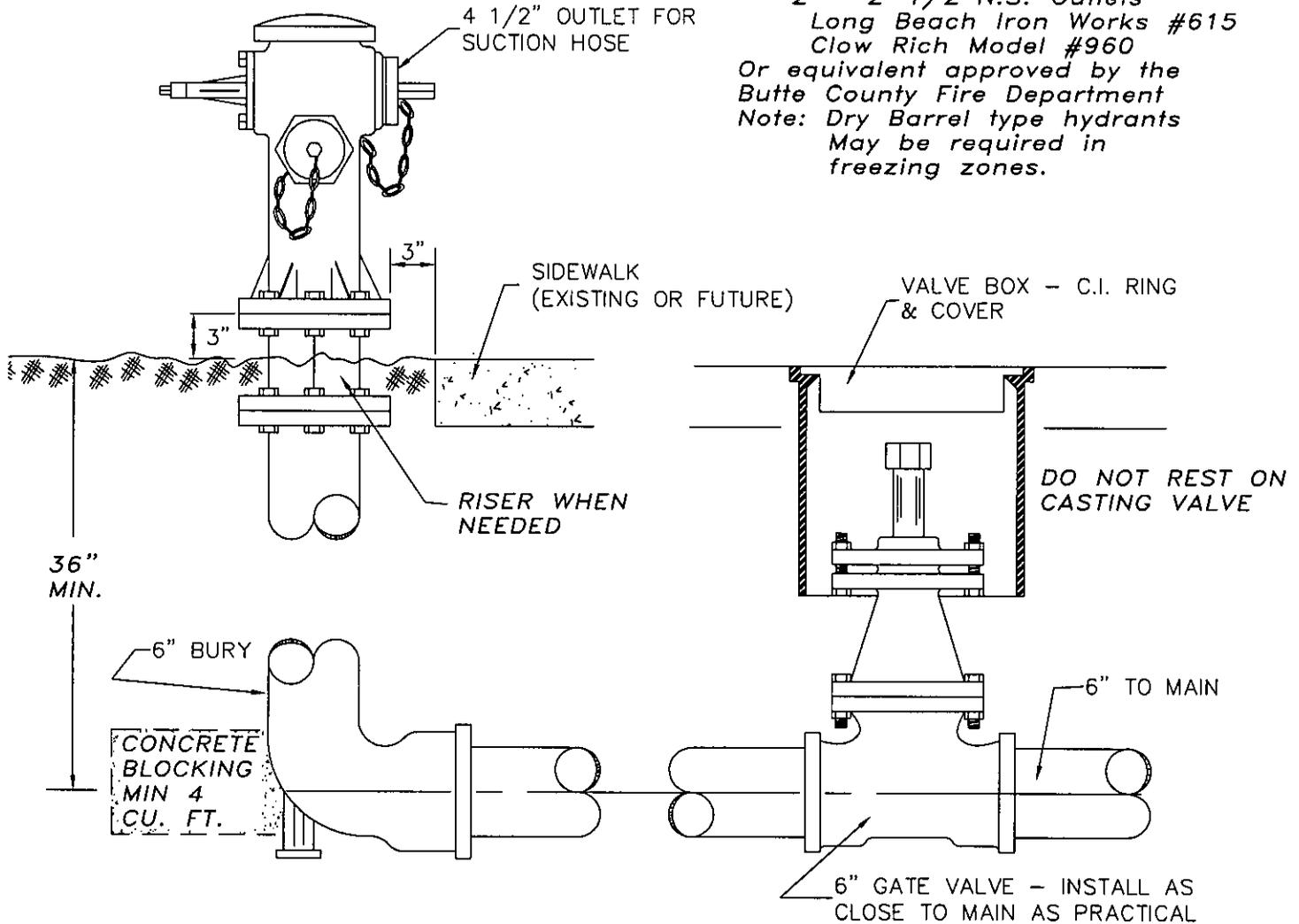
Note:

1. Hydrants to be installed min. of 3" and max of 36" behind sidewalk
2. 4-1/2" outlet for suction hose to face road

HYDRANT:

- A) 1 - 4-1/2" N.S. Outlet and
1 - 2-1/2" N.S. Outlet
Long Beach Iron Works #614
Clow Rich Model #950
- B) 1 - 4-1/2" N.S. Outlet and
2 - 2-1/2" N.S. Outlets
Long Beach Iron Works #615
Clow Rich Model #960

Or equivalent approved by the Butte County Fire Department
 Note: Dry Barrel type hydrants May be required in freezing zones.

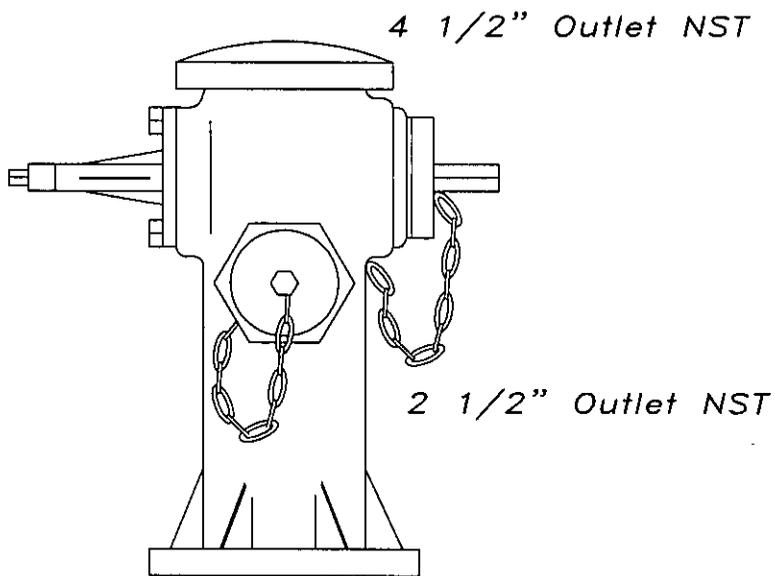


INSTALL IN ACCORDANCE WITH LOCAL UTILITY CO. & B.C.F.D. STANDARDS.

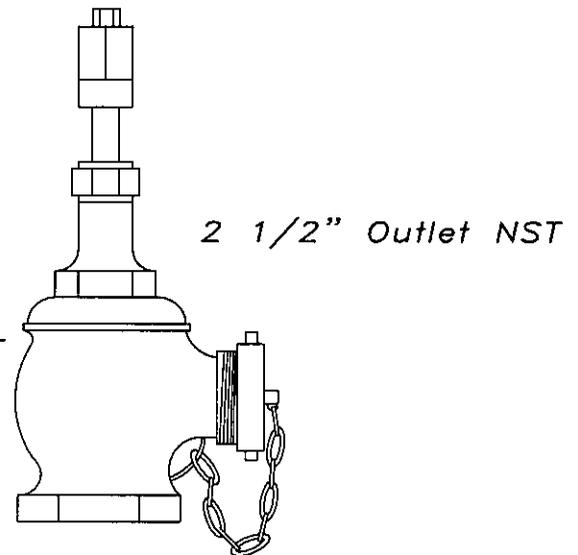
Install blue reflective pavement markers according to the State Fire Marshals "Guidelines For Fire Hydrant Marking Along State Highways and Freeways" May 1988. Two are required when a hydrant is at an intersection of two streets. Install only on paved streets/roads, and only in zones not normally plowed for snow.

DEPARTMENT OF PUBLIC WORKS
 STANDARD FIRE HYDRANT INSTALLATION
 COUNTY STANDARD NO.
 S-27
 N.T.S.





IMPROVED LOS ANGELES
TYPE HYDRANT



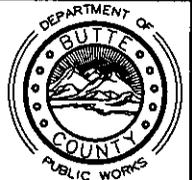
4" Minimum Inlet NST

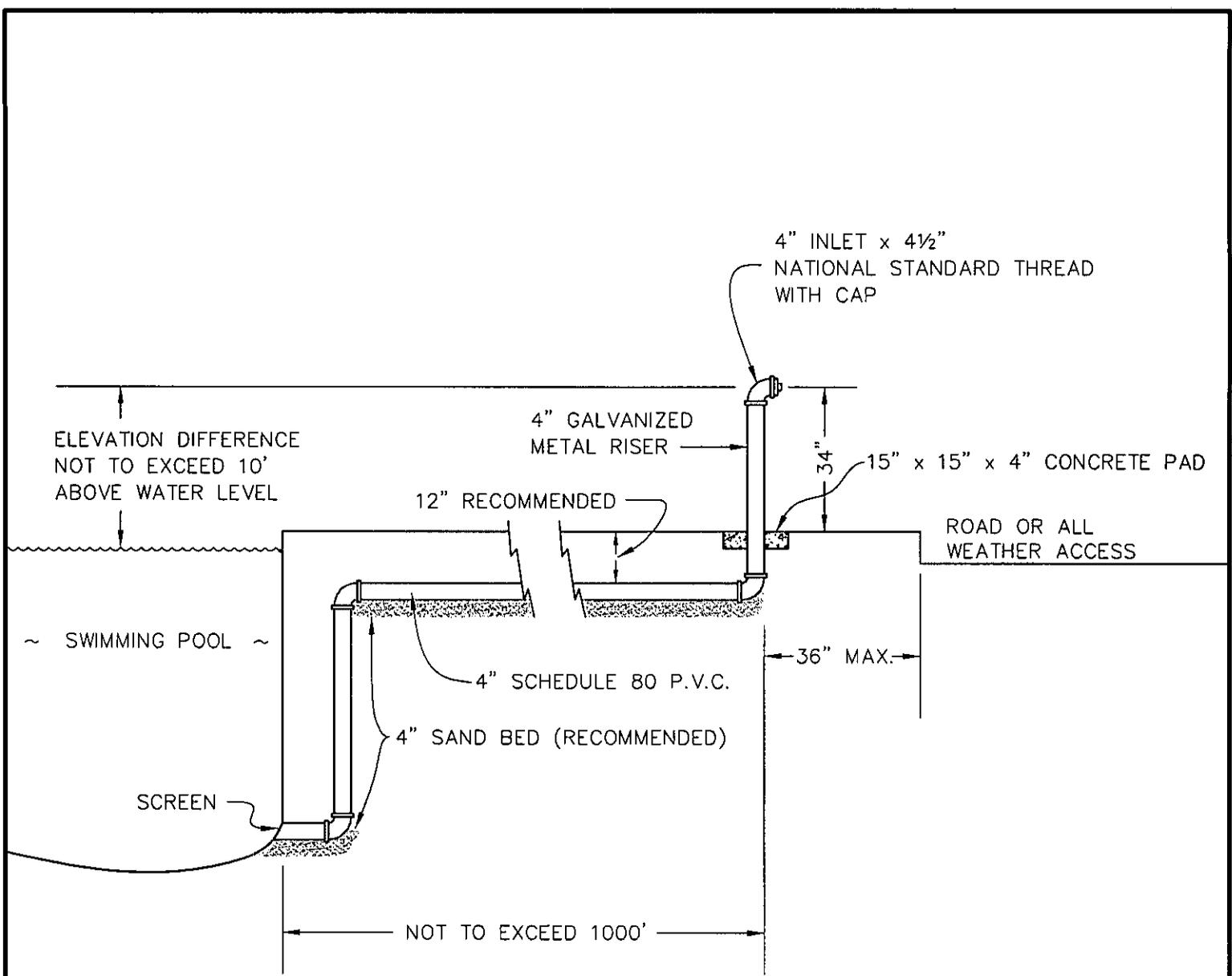
WHARF HYDRANT

NOTE:

- (1) Each hydrant must be gated between hydrant and street main.
- (2) Each hydrant shall be placed in such a manner that the 4 1/2" outlet or wharf hydrant outlet faces the street.
- (3) For easy access to fire engines, hydrant shall be placed within 36" maximum from dike or shoulder of roadway or 3" from back of sidewalk as directed by B.C.F.D.
- (4) In area of prolonged freezing temperatures, barrel must be of dry type or protected from freezing.
- (5) Hose threads on outlets to be National Standard dimensions.
- (6) Hydrants outlet shall not be less than 18" or more than 25" above roadway level.

DEPARTMENT OF PUBLIC WORKS
STANDARD FIRE HYDRANTS
COUNTY STANDARD NO.
S-28
N.T.S.

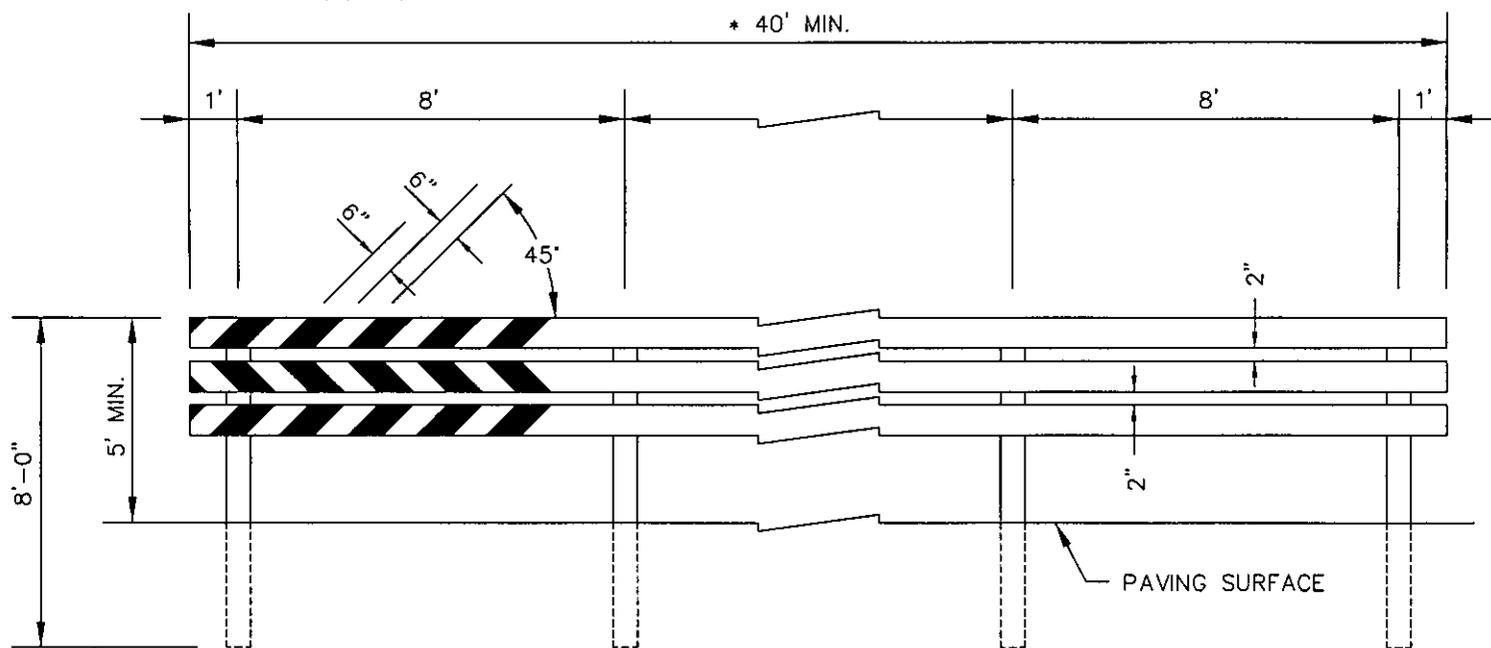




NOTE:
 IF OUTLET IS BELOW WATER
 LEVEL - INSTALL CLOW - RICHVALVE
 # 125A (4" INLET x 4 1/2"
 NATIONAL STANDARD THREAD,
 OR EQUIVALENT APPROVED BY
 THE FIRE DEPARTMENT.)

STANDARD FOR:
 SWIMMING POOL AND WATER TANK CONNECTION
 COUNTY STANDARD NO.
 S-29
 N.T.S.





FRONT VIEW

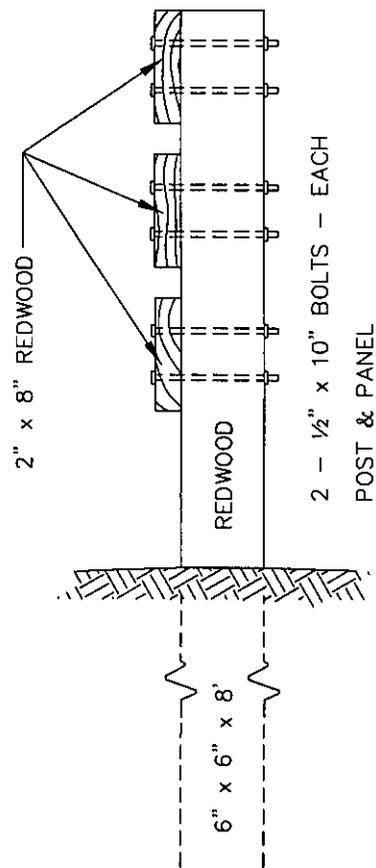
NOTES:

1. ENTIRE PANEL SHALL BE PAINTED WITH REFLECTORIZED RED AND WHITE ALTERNATING STRIPES OVER FULL LENGTH OF PANEL.
2. ALL HARDWARE SHALL BE GALVANIZED.

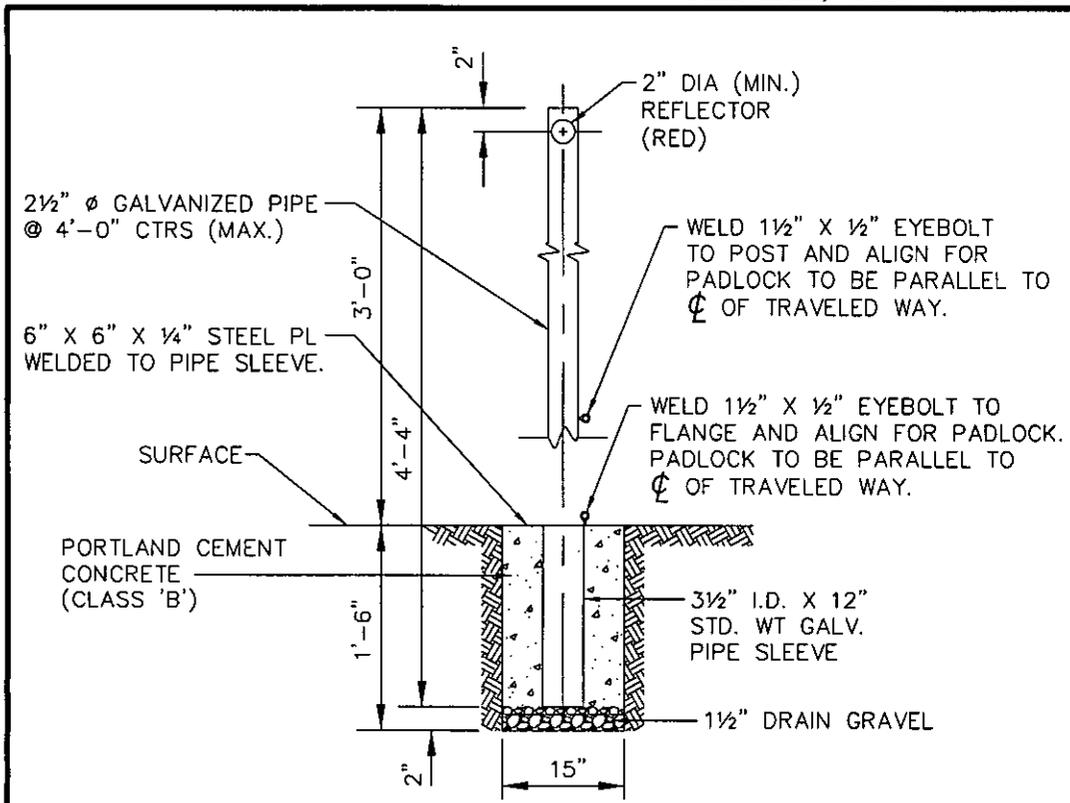
* SHALL BE CONSTRUCTED ACROSS FULL RIGHT OF WAY WIDTH WHERE REQUIRED.

GUARD PANEL DETAIL

AMENDED, RES. 84-183



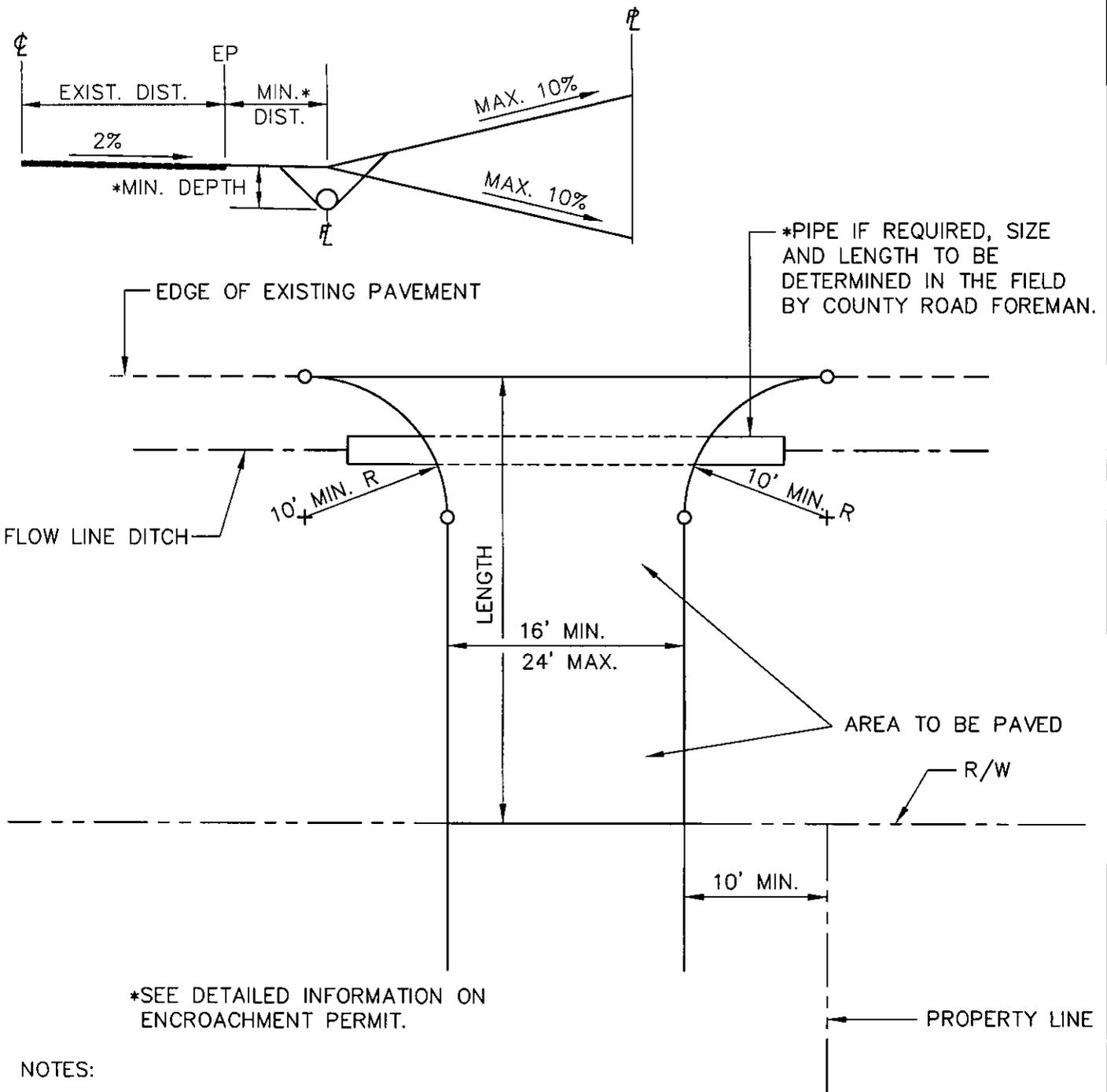
SIDE VIEW



GUARD POST DETAIL

**STANDARD FOR:
GUARD PANEL & GUARD POST DETAILS
COUNTY STANDARD NO.
S-30
N.T.S.**



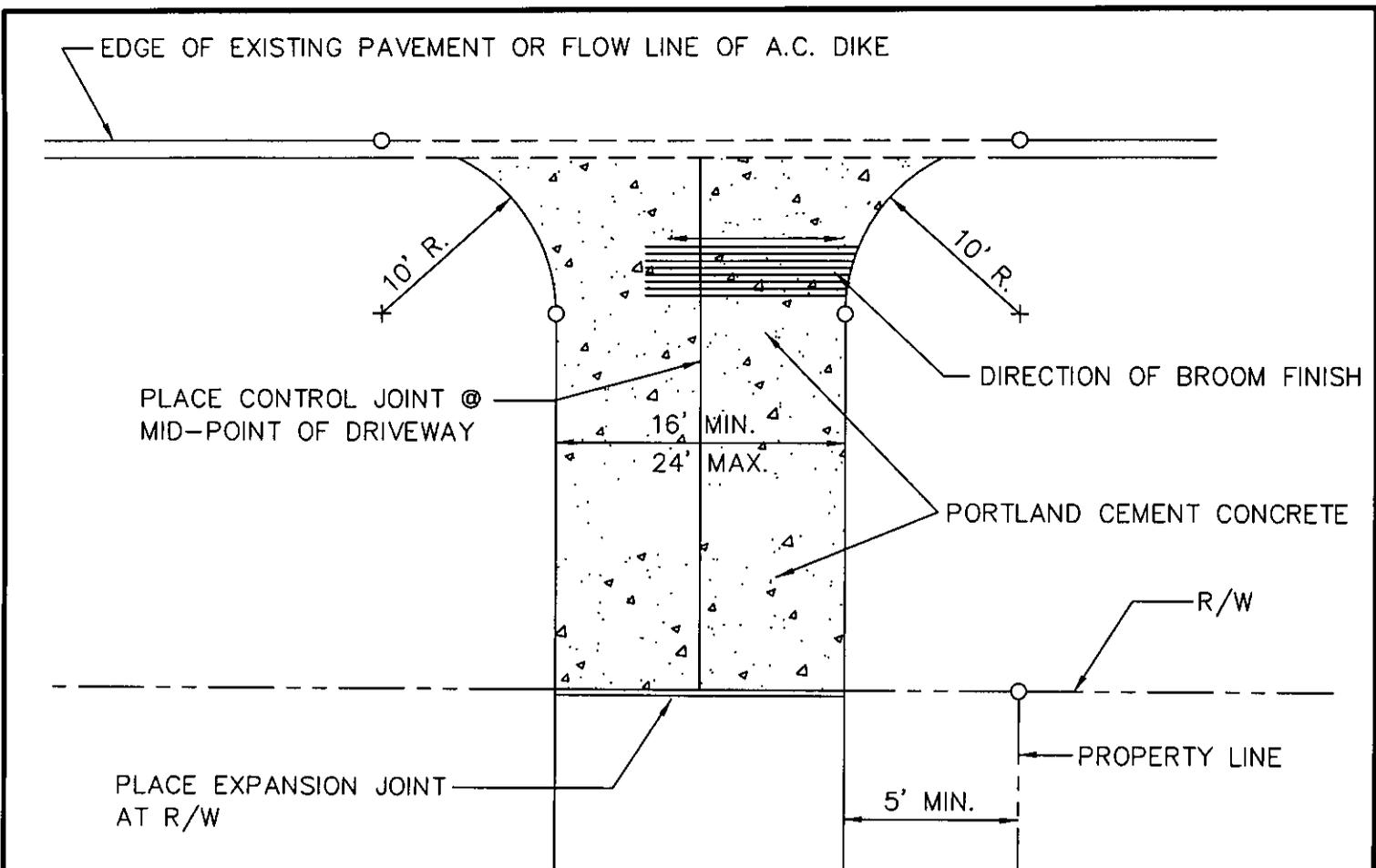


NOTES:

1. PIPE TO BE C.M.P. OR EQUAL (12" DIA. MIN.)
2. PAVING SHALL CONSIST OF 4" OF AGGREGATE BASE, MIN., AND 2" OF ASPHALT CONCRETE, MIN.
3. IF THE ATTACHED DRIVEWAY ENCROACHMENT PERMIT IS ONLY TO REPLACE A DRAINAGE CULVERT IN AN EXISTING DRIVEWAY THEN THE STRUCTURAL SECTION FOR THE DRIVEWAY TRENCH SHALL BE THE SAME AS THE EXISTING DRIVEWAY STRUCTURAL SECTION.

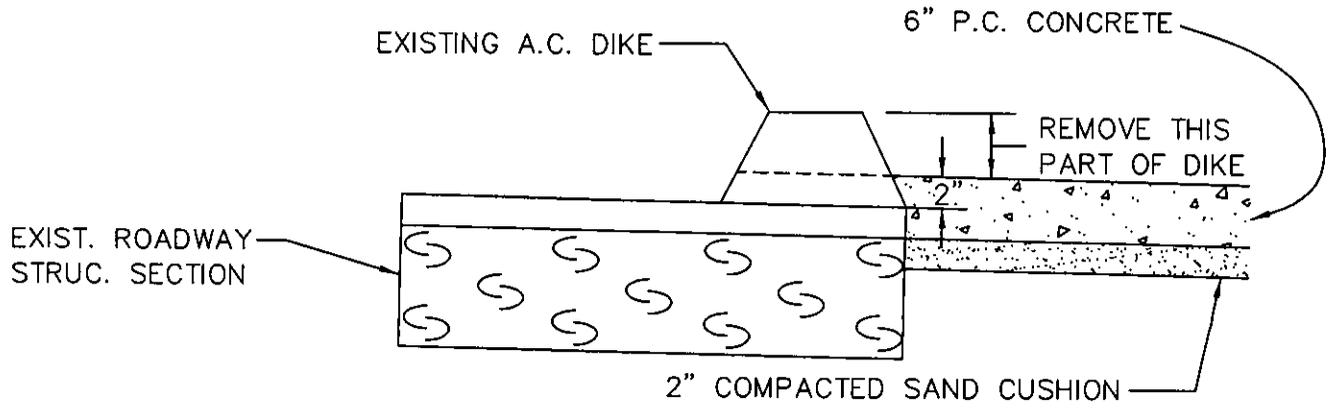
STANDARD FOR:
 PRIVATE DRIVEWAY DETAILS
 COUNTY STANDARD NO.
 S-31
 N.T.S.





NOTES:

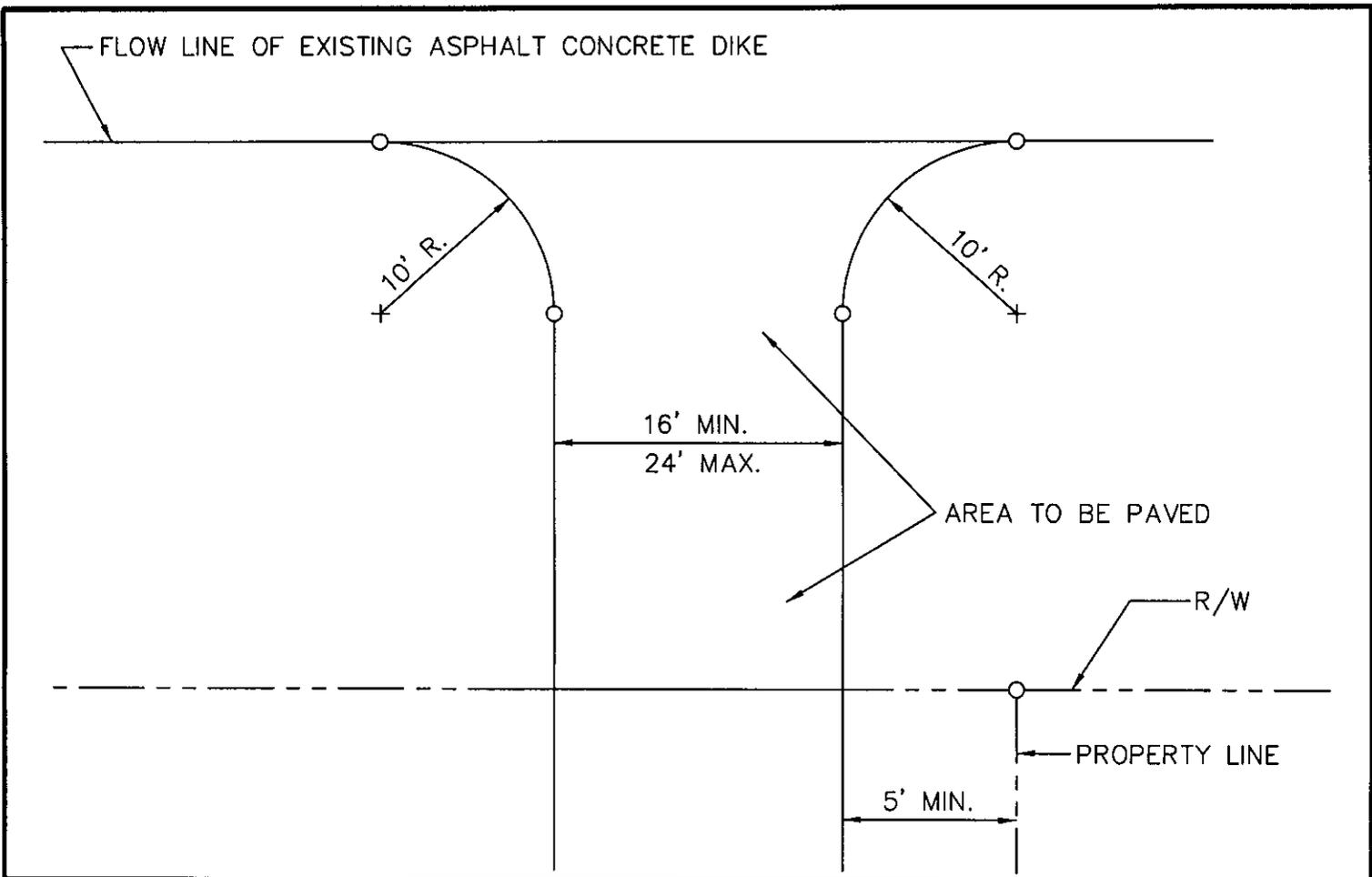
1. DO NOT PUT REBAR OR WIRE MESH IN CONCRETE WITHIN COUNTY RIGHT OF WAY.
2. COUNTY ROADWAY RECONSTRUCTION WILL REPLACE EXISTING CONCRETE DRIVEWAYS WITH ASPHALT CONCRETE OVER AGGR. BASE TO LIMIT OF CONSTRUCTION.



CUT A.C. DIKE AND LEAVE 2" MIN. HIGH LIP FOR STORM WATER.

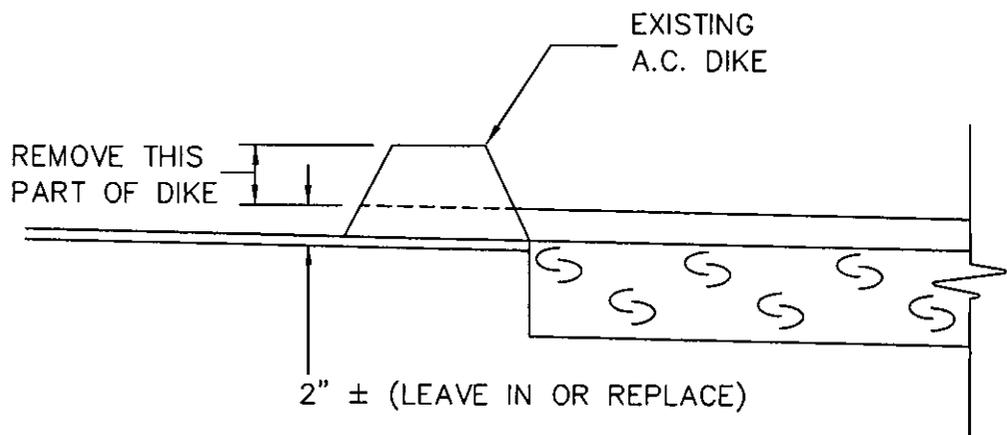
TYPICAL DETAILS & SECTION FOR:
 CONCRETE PRIVATE DRIVEWAY BEHIND ASPHALT DIKE SECTION
 COUNTY STANDARD NO. S-31A
 N.T.S.





NOTE:

1. DRIVEWAY SURFACING SHALL CONSIST OF
 2" (MIN.) OF ¾" TYPE 'B' MAX. MED. GRADING ASPHALT CONCRETE OVER
 4" (MIN.) OF CLASS 2, ¾" MAX. GRADING AGGREGATE BASE.



CUT A.C. DIKE AND LEAVE 2" MIN. LIP.

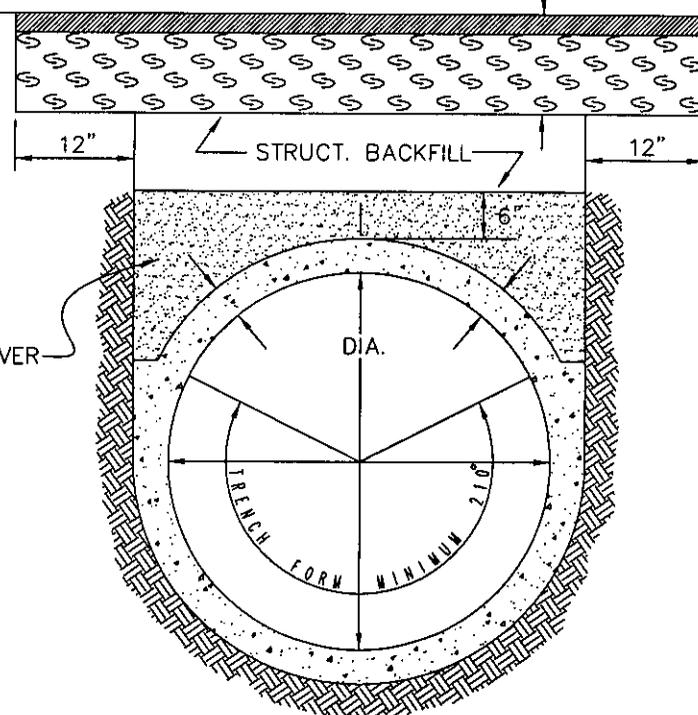
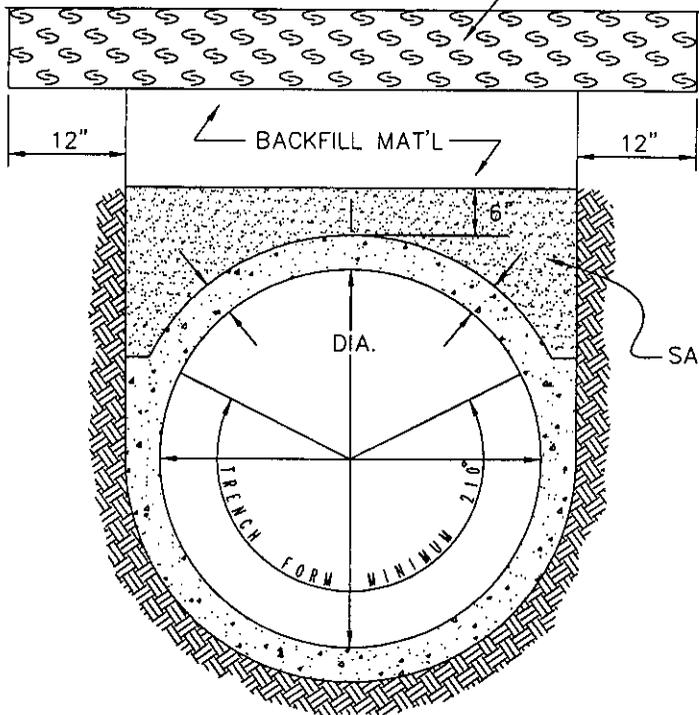
TYPICAL DETAILS & SECTION STANDARDS FOR:
 PRIVATE DRIVEWAY BEHIND ASPHALT DIKE SECTION
 COUNTY STANDARD NO.
 S-31B
 N.T.S.



MINIMUM STRUCTURAL SECTION

8" CLASS 2 AGG. BASE ¾" MAX. GRADING
95% REL. COMP.

FOG SEAL, 2" TYPE "B" ASPH. CONC. ¾" MAX. MED. GRADING,
PRIME COAT, 8" CL 2 AGG. BASE ¾" MAX. GRADING
95% REL. COMP.



WITHIN SHOULDER AREA

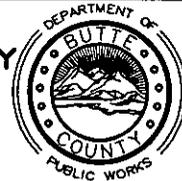
WITHIN PAVMT. AREA

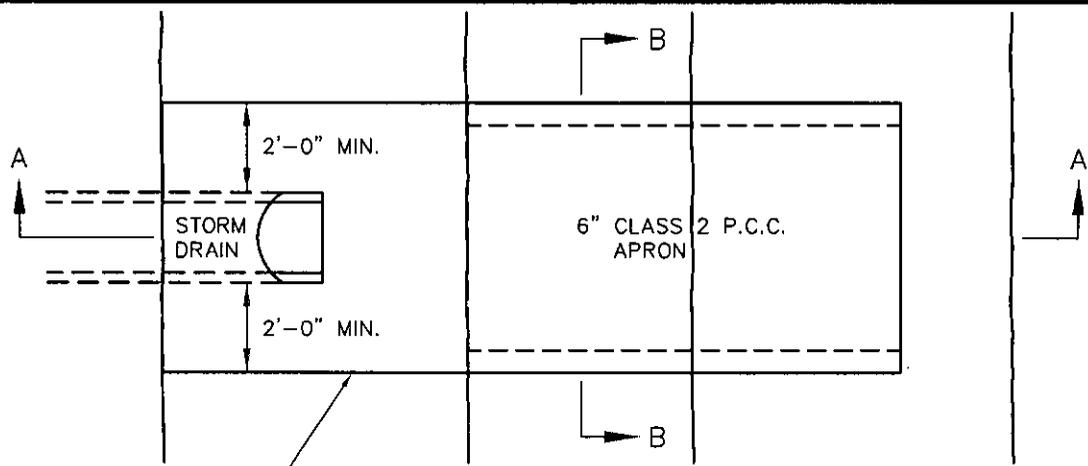
CURING, PROTECTING, BACKFILL AND SURFACING SCHEDULE:

1. All work shall conform to section 63 "Cast-In-Place Concrete Pipe", of the Caltrans Standard Specifications.
2. Cover and protect fresh concrete with waterproof membrane or curing compound immediately after placing pipe. A humid atmosphere within the pipe, as evidenced by condensation on the interior surface, shall be maintained for at least seven (7) days following placement.
3. Place sand cover after pipe has been in place not less than 24 hours.
4. Place backfill material or structure backfill (min. S.E. = 30) as shown above and compact to 95% relative compaction after the pipe has been in place not less than 48 hours, and attained a minimum compressive strength of 2,500 psi.
5. Compact the subgrade material to not less than 95% relative compaction for a depth of not less than 12" and place aggregate base and asphalt concrete, as shown, after the pipe has been in place not less than seven days.
6. Contractor shall have test cylinders taken on the job site as directed by the County inspector. Test cylinders shall be prepared and tested as per Section 90 of the Caltrans Standard Specifications. Test results shall be provided to the County from a qualified lab. Minimum 3 day break 2,500 psi, 28 day break 3,500 psi.
7. Minimum 24" cover required between top of pipe and ground or road surface.

**DEPARTMENT OF PUBLIC WORKS
CAST-IN-PLACE CONCRETE PIPE IN ROAD OR STREET RIGHT OF WAY
COUNTY STANDARD NO.**

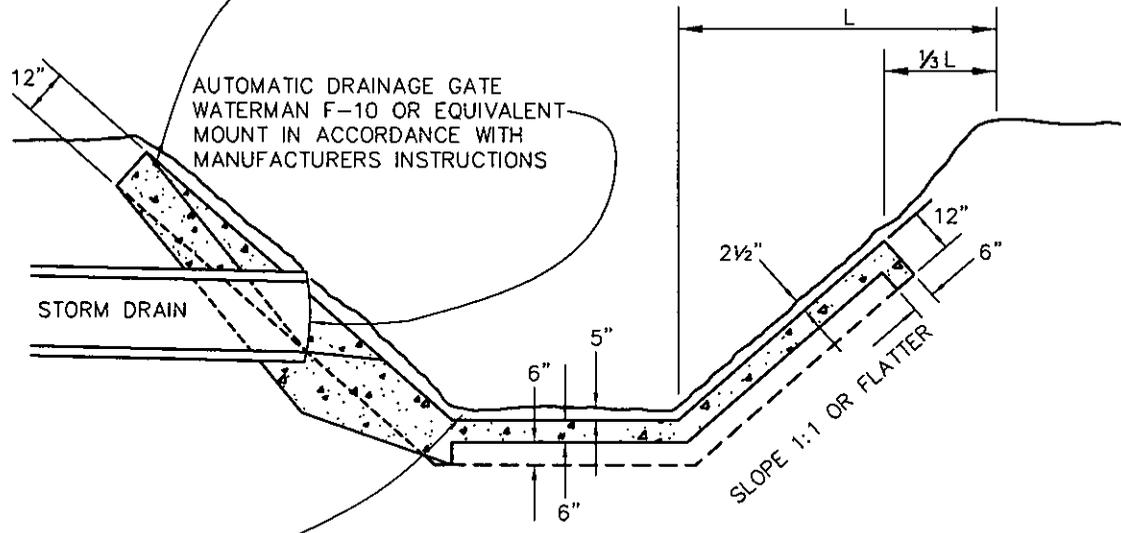
**S-32
N.T.S.**





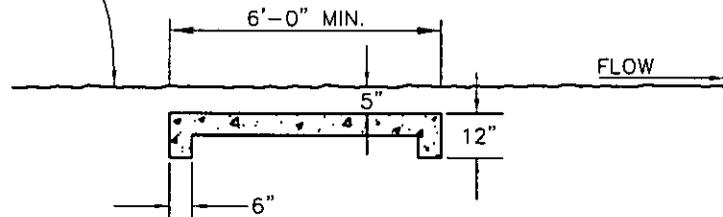
PLAN

12" CLASS 2 P.C.C. PAD
 W/6x6x8 WELDED WIRE FABRIC TO BE
 PLACED 1 1/2" FROM BOTTOM OF CONCRETE.



SECTION A-A

EXISTING CHANNEL SURFACE



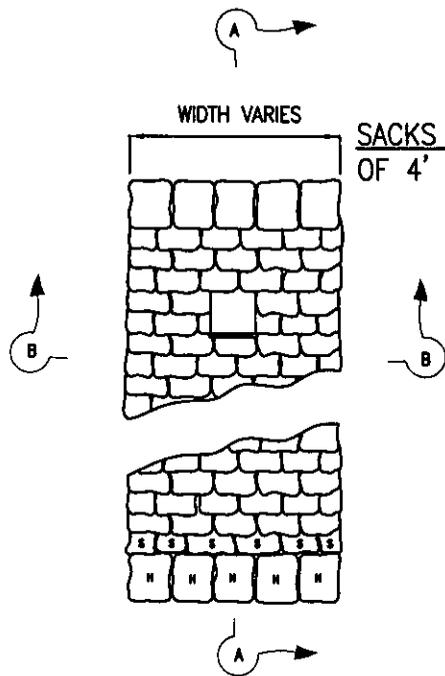
SECTION B-B

NOTES:

1. GROUTED COBBLE MAY BE PERMITTED WITH APPROVAL OF THE DIRECTOR OF PUBLIC WORKS.
2. DIMENSIONS SHOWN ARE MINIMUM VALUES.
3. ACTUAL DEPTH OF CUT-OFF WALLS DEPENDENT UPON RUNOFF VELOCITY AND/OR SCOUR RESISTANCE OF SURROUNDING SOILS.

STANDARD FOR:
 DRAINAGE DITCH PIPE OUTLET DETAILS
 COUNTY STANDARD NO.
 S-33
 N.T.S.



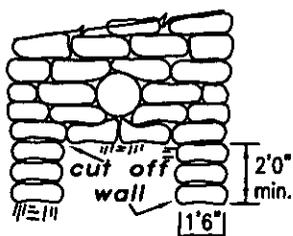


SACKS SHALL EXTEND A MINIMUM OF 4' ON EACH SIDE OF PIPE.

NOTE: SACKED CONCRETE SLOPE PROTECTION

- S = STRETCHER - LONG AXIS OF SACK PARALLEL TO SLOPE
- H = HEADER - LONG AXIS OF SACK NORMAL TO SLOPE
- 6" MINIMUM CLEARANCE - FLAP GATE TO SLOPE

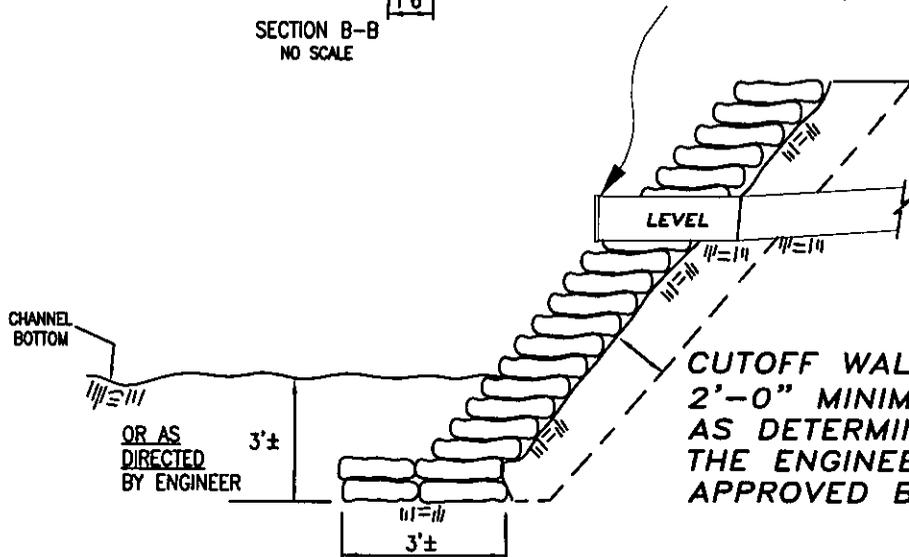
PLAN
NO SCALE



SECTION B-B
NO SCALE

INSTALL WATERMAN F-10 AUTOMATIC DRAINAGE GATE OR EQUIVALENT

2' ABOVE HIGH WATER
OR TOP OF PIPE ELEVATION
(WHICHEVER IS GREATER)

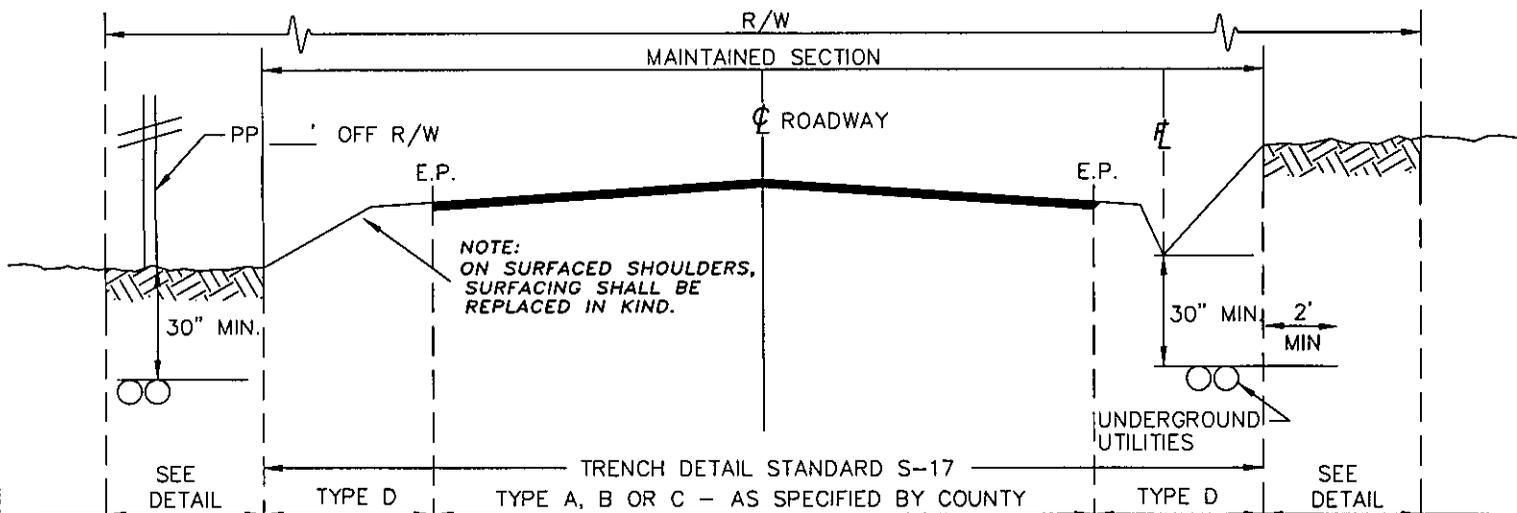


SECTION A-A
NO SCALE

CUTOFF WALL (TYP)
2'-0" MINIMUM OR
AS DETERMINED BY
THE ENGINEER AND
APPROVED BY D.P.W.

DEPARTMENT OF PUBLIC WORKS
SACKED CONC. SLOPE PROTECTION W/STORM DRAIN INSTALLATION INTO CHANNELS
COUNTY STANDARD NO.
S-34
N.T.S.

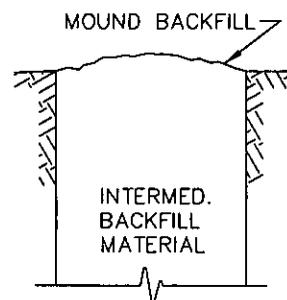




NOTE: EXCESS MATERIAL FROM TRENCHING SHALL BE REMOVED AND DEPOSITED OFF OF THE ROADWAY RIGHT OF WAY.

NOTE: CONTRACTOR SHALL SHORE ALL TRENCHES IN CONFORMANCE WITH STATE AND O.S.H.A. SAFETY REQUIREMENTS.

CALL U.S.A.
1-800-227-2600
48 HRS. PRIOR TO WORKING.



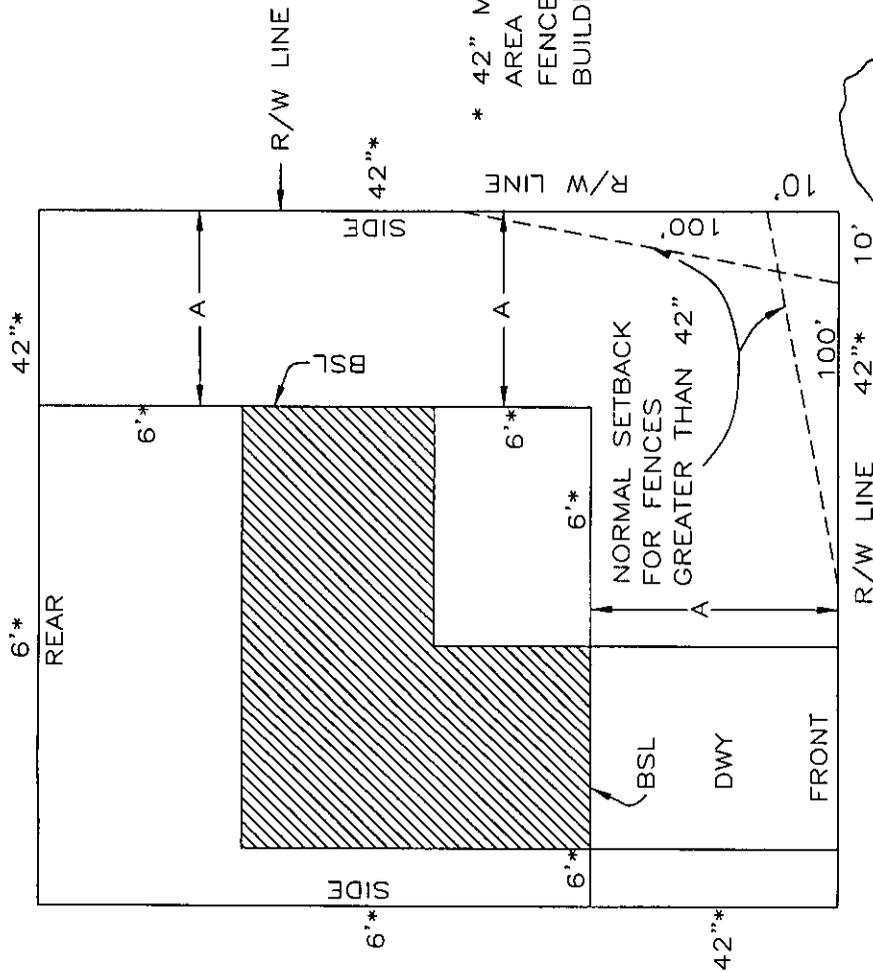
PUBLIC EASEMENT BACKFILL DETAIL

MATERIAL & COMPACTION REQUIREMENTS FOR TRENCH BACKFILL

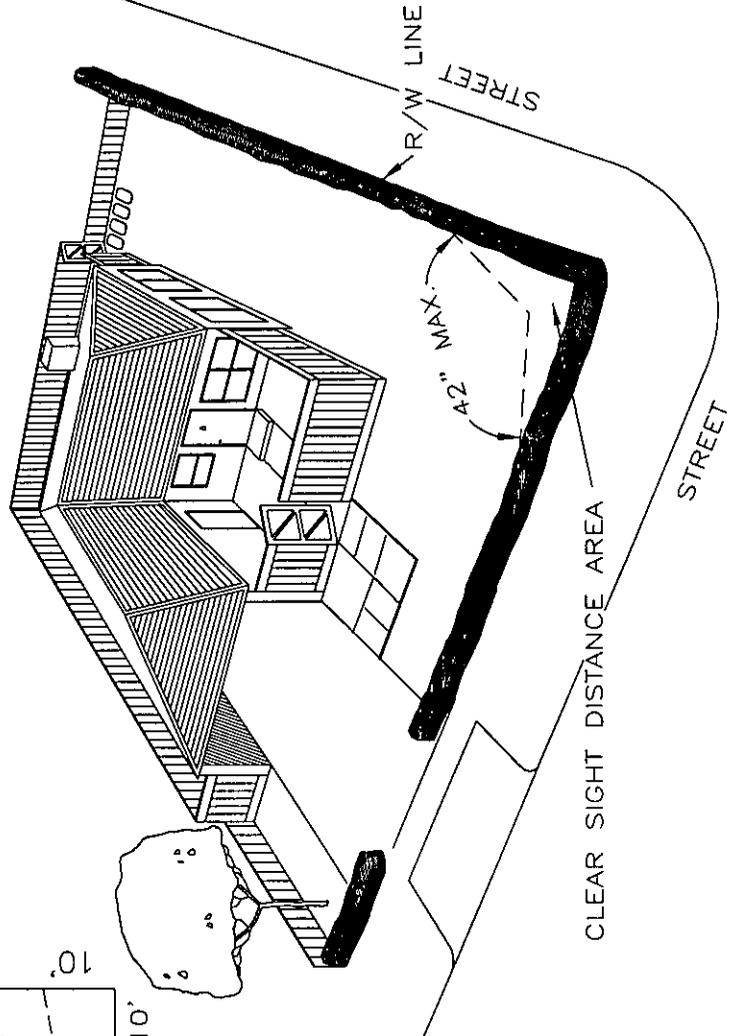
1. TRENCH EDGES SHALL BE CLEAN CUT.
2. PIPE BEDDING MATERIAL AND BACKFILL MATERIAL SHALL CONFORM TO REQUIREMENTS OF THE UTILITY HAVING JURISDICTION OVER THE INSTALLATION, AND SHALL ALSO MEET THE REQUIREMENTS OF SECTION 19 - 3.06, "STRUCTURE BACKFILL" OF THE STANDARD SPECIFICATIONS AS MODIFIED BELOW.
3. INTERMEDIATE BACKFILL SHALL BE ANY SUITABLE NATIVE OR IMPORTED GRANULAR MATERIAL. RELATIVE COMPACTION SHALL BE AT LEAST 95% WITH A MIN. S.E. OF 30.
4. CLASS #2 AGGREGATE BASE (¾" MAX. GRADING) SHALL CONFORM TO THE STANDARD SPECIFICATIONS. MINIMUM RELATIVE COMPACTION SHALL BE 95%.
5. WHEN TRENCHES ARE BACKFILLED WITH GRANULAR MATERIALS, PROVISIONS MUST BE PROVIDED TO DRAIN OFF EXCESS WATER.
6. TRENCHING IS THE PRIMARY METHOD THAT SHALL BE PERMITTED WITHIN THE MAINTAINED SECTIONS OF RIGHT OF WAYS; HOWEVER, BORING MAY BE REQUIRED WHEN CROSSING EXISTING ROADWAYS. ALTERNATE METHODS MAY BE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.



CORNER LOT



* 42" MAXIMUM FENCE HEIGHT IN BUILDING SETBACK AREA WITHOUT APPROVAL OF PUBLIC WORKS. FENCES OVER 6' IN HEIGHT MAY REQUIRE A BUILDING PERMIT PRIOR TO CONSTRUCTION.



A = ARTERIALS & COLLECTORS = 25'
 A = ALL OTHER STREETS = 20'
 BSL = BUILDING SETBACK LINE

DEPARTMENT OF PUBLIC WORKS
 FENCES, WALLS & HEDGES CORNER LOT
 COUNTY STANDARD NO.

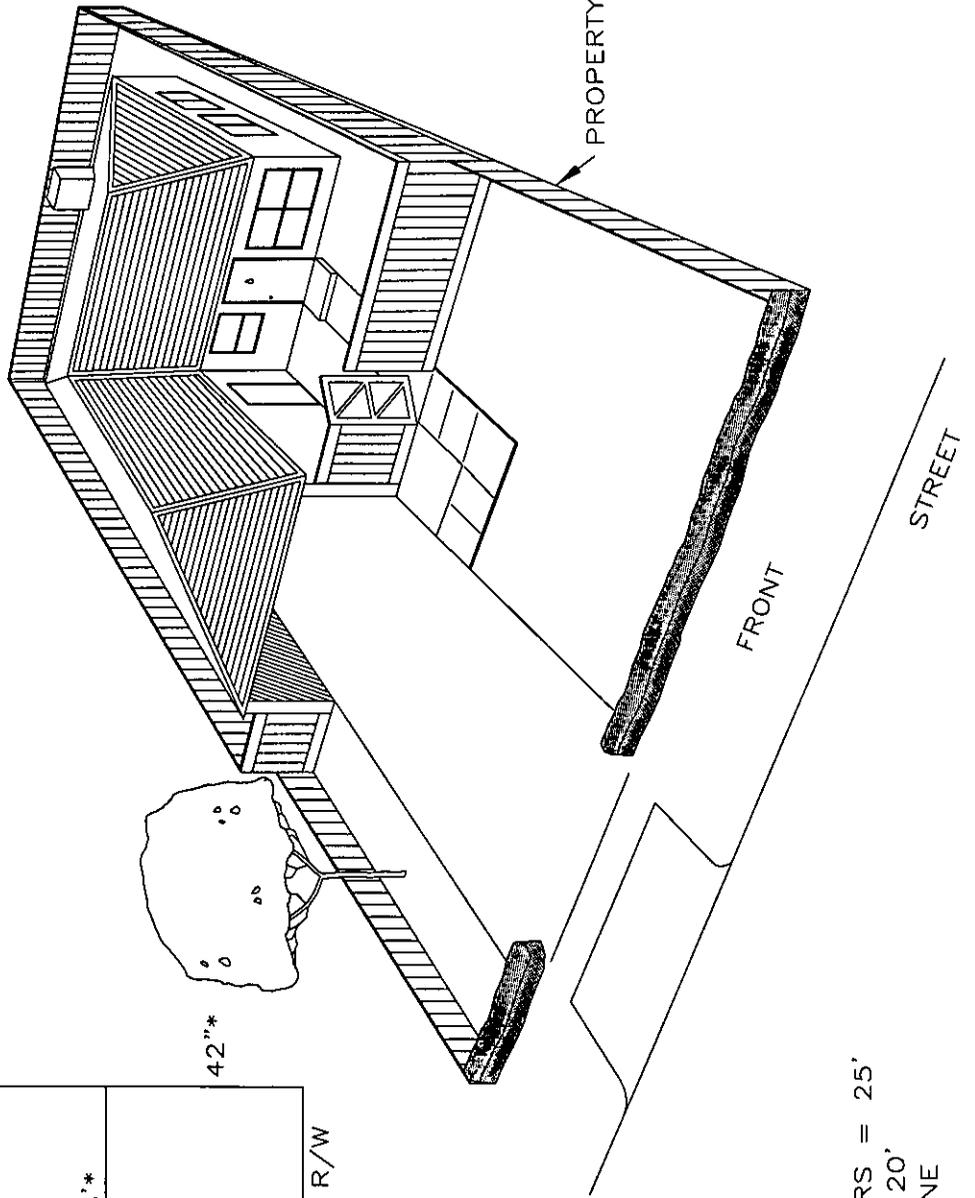
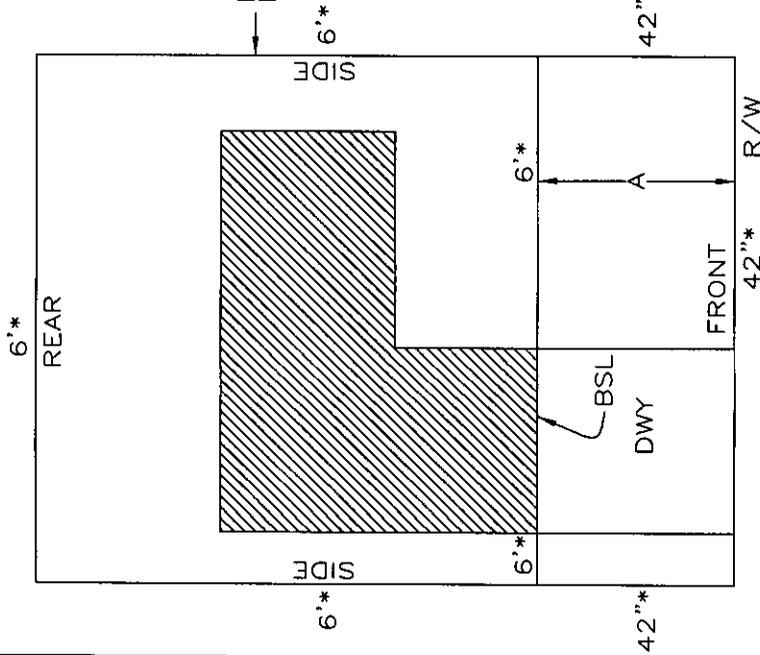
S-36
 N.T.S.

RES 06-149 10/24/06



INTERIOR LOT

* 42" MAXIMUM FENCE HEIGHT IN BUILDING SETBACK AREA WITHOUT APPROVAL OF PUBLIC WORKS. FENCES OVER 6' IN HEIGHT MAY REQUIRE A BUILDING PERMIT PRIOR TO CONSTRUCTION.



A = ARTERIALS & COLLECTORS = 25'
 A = ALL OTHER STREETS = 20'
 BSL = BUILDING SETBACK LINE

DEPARTMENT OF PUBLIC WORKS
 FENCES, WALLS & HEDGES INTERIOR LOT
 COUNTY STANDARD NO.
 S-37
 N.T.S.



1. LEACH TRENCHES NOT ALLOWED UNDER ROAD SECTION.
2. CAL TRANS SPECS SECTION 68-1.025.
3. CONSTRUCTION SPECIFICATION PER SECTION 68 OF THE CAL TRANS STANDARDS UNLESS OTHERWISE NOTED.
4. CLEANING ACCESS TO PIPE REQUIRED; INSTALL CLEANOUT TO GRADE FOR ANY ABRUPT CHANGES IN ALIGNMENT OF INFLOW PIPING.

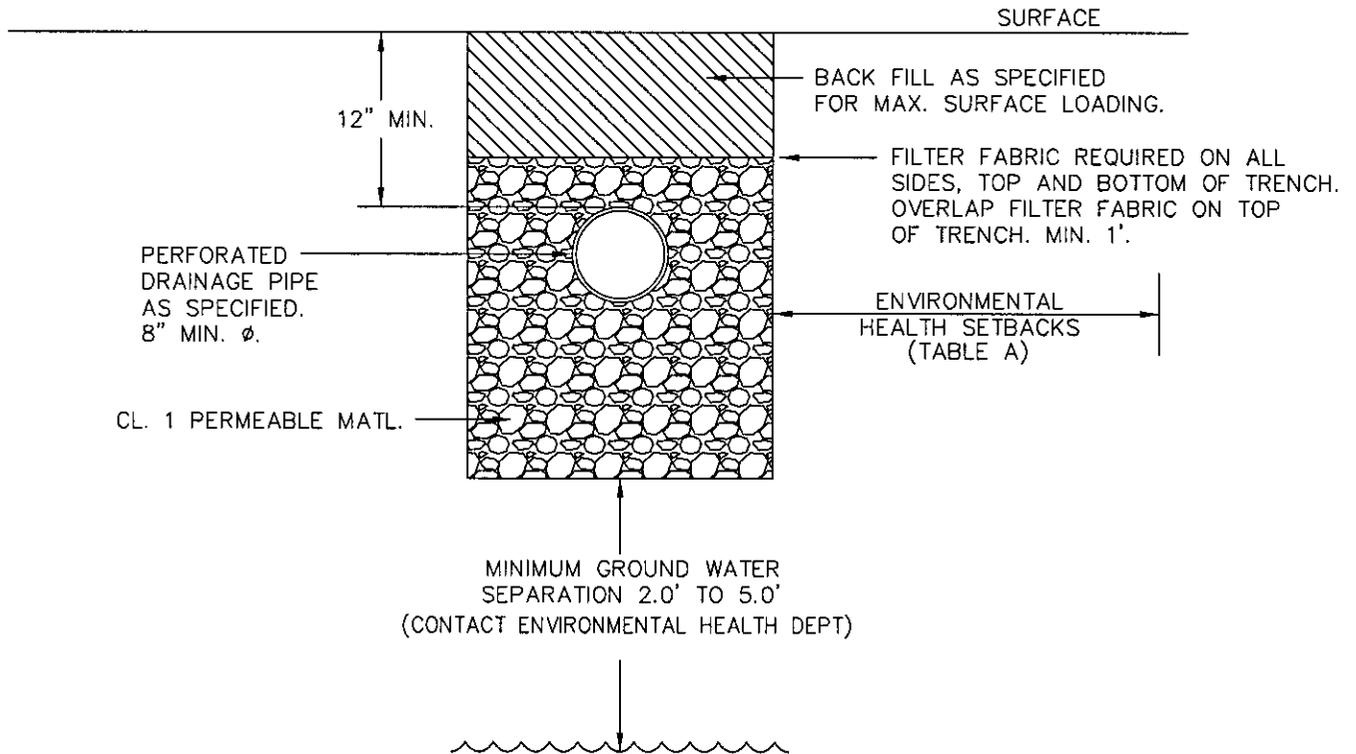
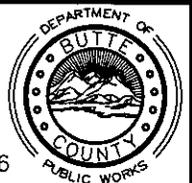


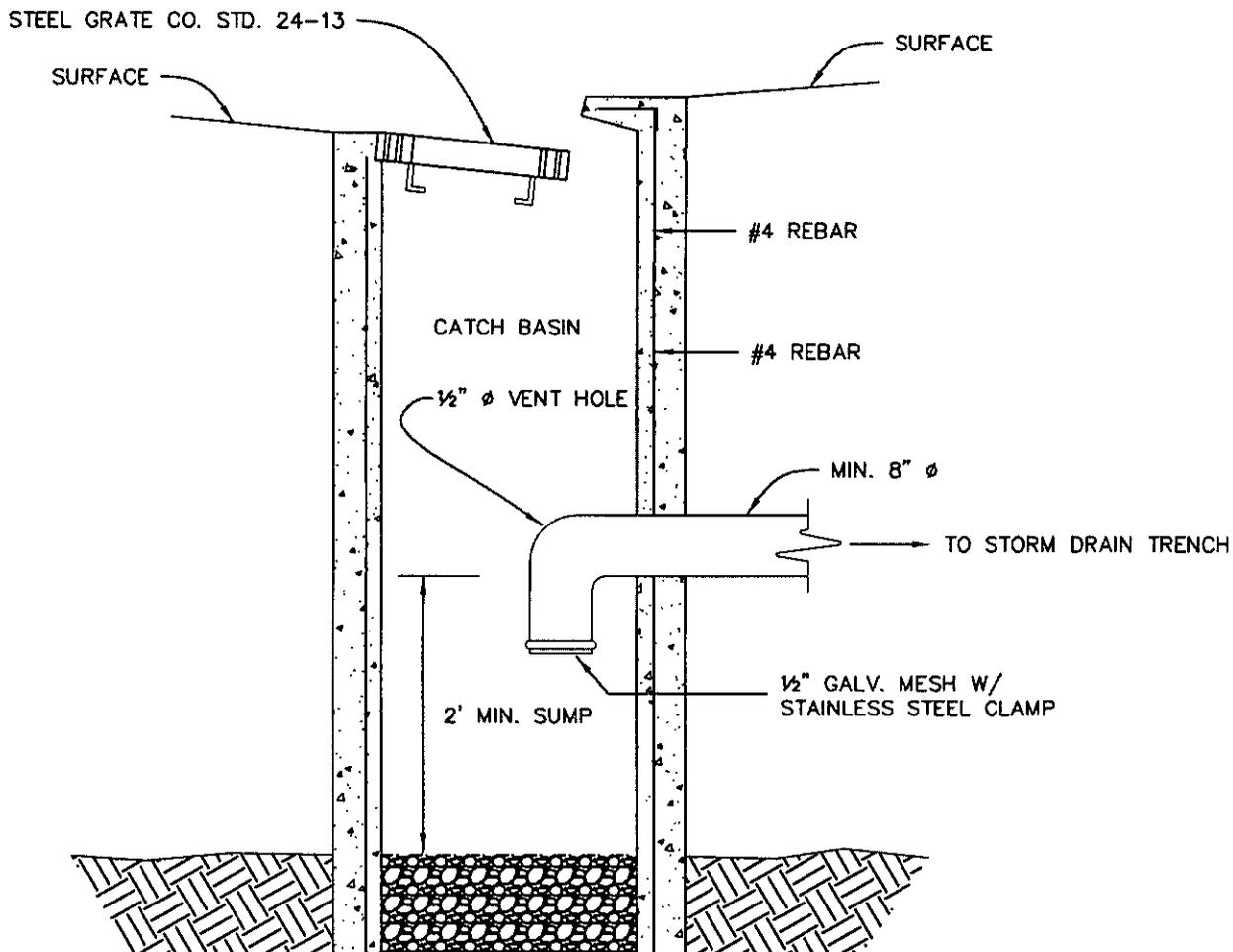
TABLE A

<u>TABLE</u>	<u>MINIMUM SETBACK</u>
1. SEWAGE LEACH TRENCH	10.0'
2. WATER WELL	100.0'
3. PERENNIAL STREAM	100.0'
4. LAKE OR RESERVOIR	200.0'
5. DRAINAGE COURSE	50.0'
6. BUILDING FOUNDATION	5.0'
7. DOMESTIC WATER MAIN	10.0'
8. DOMESTIC WATER SERVICE	5.0'
9. SEPTIC TANK	5.0'

TYPICAL
STORM DRAINAGE LEACH TRENCH
COUNTY STANDARD NO.
S-38
N.T.S.

RES 06-149 10/24/06



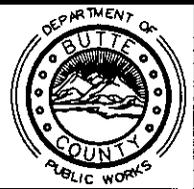


PLACE CALTRANS PERMEABLE
MATERIAL CLASS 1, TYPE A
PER SECTION 68-1.025 OF THE
STANDARD SPECIFICATIONS (1.0
CU. FT. MIN.)

NOTES:

1. 90° BENDS SHALL BE PLACED ON ALL CATCH BASIN OUTLETS.
2. CATCH BASINS SHOULD BE PROVIDED WITH THE MAXIMUM SUMP DEPTH POSSIBLE. A MINIMUM 2 FT. SUMP IS RECOMMENDED.
3. ALL DETAILS NOT SHOWN ARE THE SAME AS COUNTY STD. S-8 SERIES.

STANDARD DETAILS FOR:
TYPICAL INLET TO LEACH TRENCH CONNECTION
COUNTY STANDARD NO.
S-39
N.T.S.

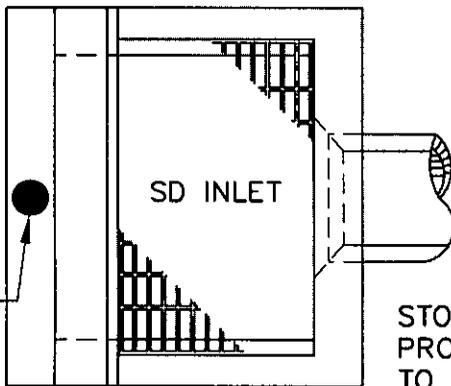




MARKER FOR STORM DRAIN INLETS THAT DRAIN TO CREEK, SWALE OR OTHER WATER BODY.



MARKER FOR STORM DRAIN INLETS THAT RETAIN IN LEACH TRENCH OR RETENTION SYSTEM.



PLAN VIEW

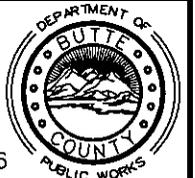
STORM DRAIN MARKER LOCATION.

STORM WATER MANAGEMENT PROGRAM DOMED MARKER TO BE PURCHASED FROM COUNTY OF BUTTE PUBLIC WORKS DEPARTMENT.

CONTRACTOR TO EPOXY MARKER TO INLET WHERE SHOWN USING "das" CURB MARKER ADHESIVE #RS-222 OR EQUIVALENT.

STANDARD DETAILS FOR:
STORM WATER MANAGEMENT PROGRAM DRAINAGE INLET MARKER
COUNTY STANDARD NO.

S-40
N.T.S.



RES 06-149 10/24/06

FLUORESCENT ORANGE PLASTIC DELINEATOR HAWKINS-HAWKINS #VBE-42-PO-2(S) 3 3/4" I.D. X 42" LONG CUT TO 19" LENGTH USE EXCESS TO PROVIDE DOUBLE LAYER FOR SNUG FIT. SLIT INNER LAYER AND POP RIVET TO PIPE W/ 6 EA- ALUMINUM RIVETS- 3/16" Ø X 1/2" GRIP.

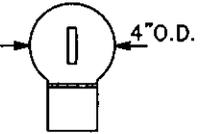
3" I.D. PVC CAP-POP RIVET IN PLACE W/ 3EA.- ALUMINUM RIVETS- 3/16" Ø X 1/2" GRIP W/ WASHER.

4" INLAYED REFLECTIVE BANDS (SILVER) POSITIONED 2" FROM TOP.

3" I.D. X 27" STD. WT. GALV. PIPE

WELD 1 1/2" X 1/2" EYEBOLT TO PIPE. ALIGN FOR PADLOCK.

ALTERNATE HASP



1 1/2" X 1/2" EYEBOLT OR ALTERNATE HASP WELDED TO PLATE. ALIGN FOR PADLOCK.

6" X 6" X 1/4" STEEL PLATE WELDED TO 3 1/2" I.D. PIPE

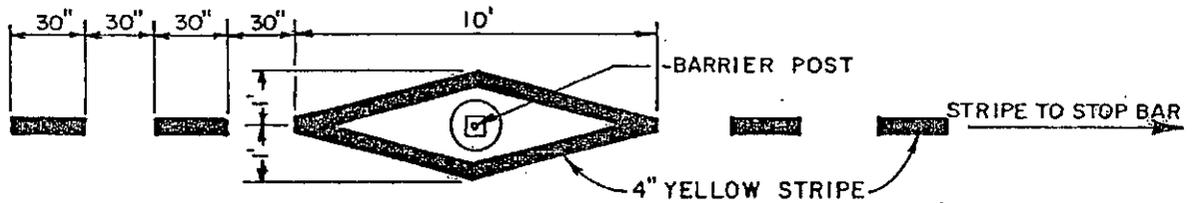
3 1/2" I.D. X 12" STD. WT. GALV. PIPE SLEEVE

A.C. PATH

CONCRETE FOOTING

DRAIN GRAVEL

BARRIER POST



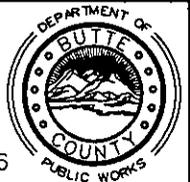
STRIPING DETAIL

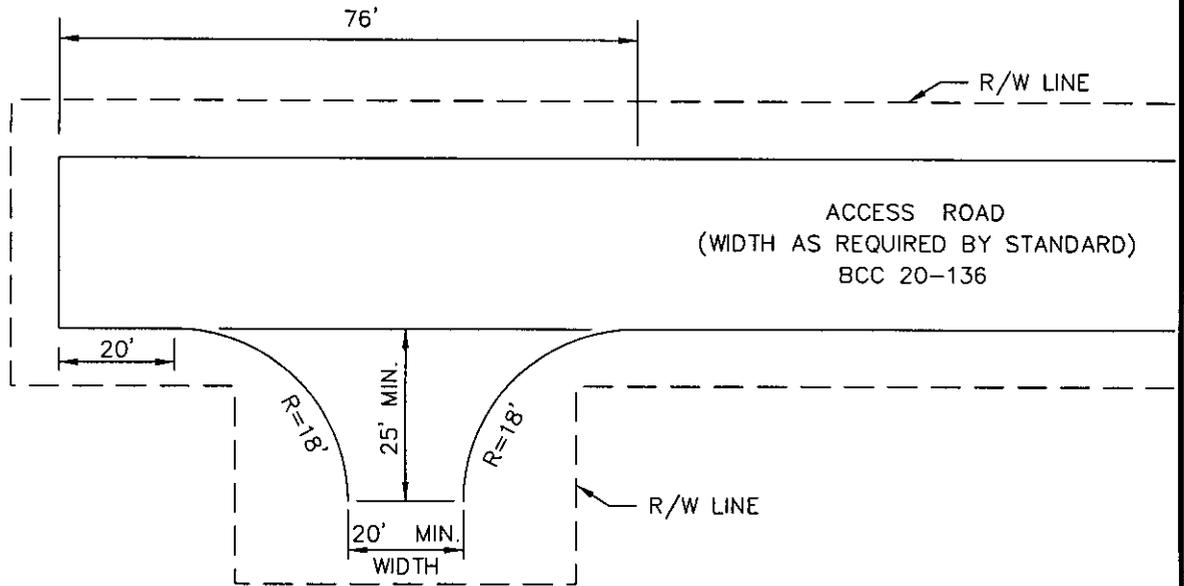
NOTE

ALL FERROUS METALS SHALL BE GALVANIZED-FIELD WELDS WILL BE PERMITTED WELDS MUST BE PAINTED IN ACCORDANCE WITH STATE STANDARD SPECIFICATION SECTION 59-3.

BICYCLE/PEDESTRIAN PATH
TRAFFIC BARRIER POST
COUNTY STANDARD NO.
S-41
N.T.S.

RES 06-149 10/24/06

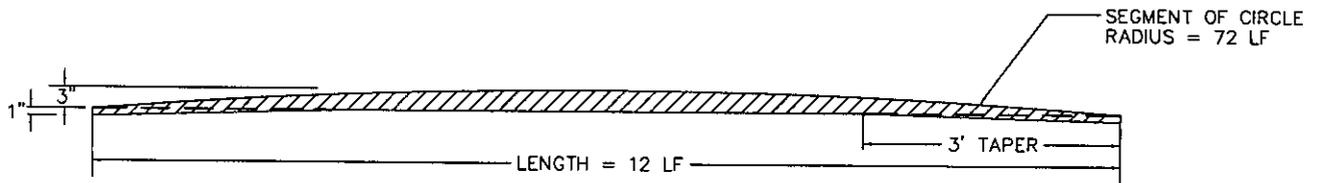




BUILDING FREE
 TURN AROUND AREA
 COUNTY STANDARD NO.
 S-42
 N.T.S.

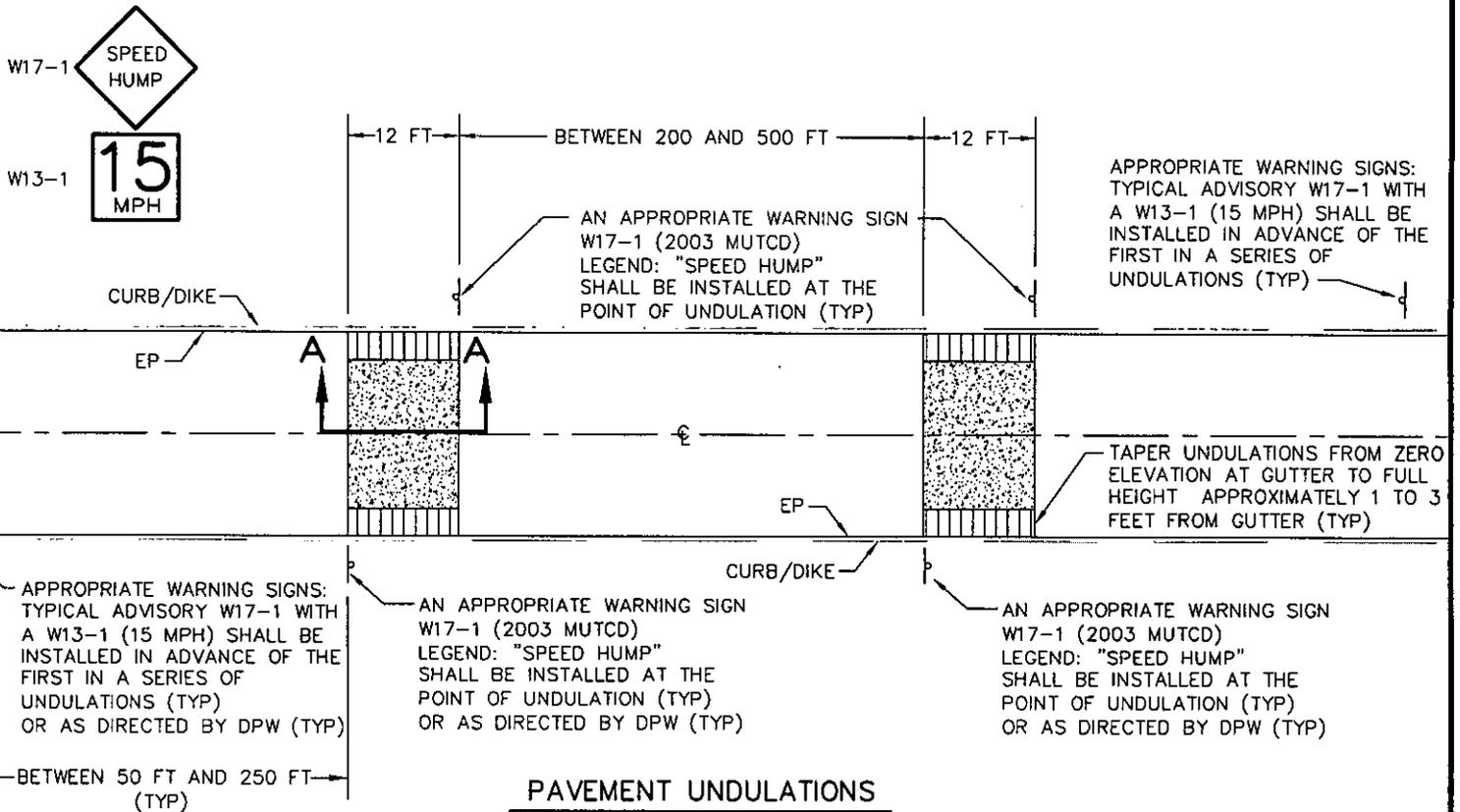


RES 06-149 10/24/06

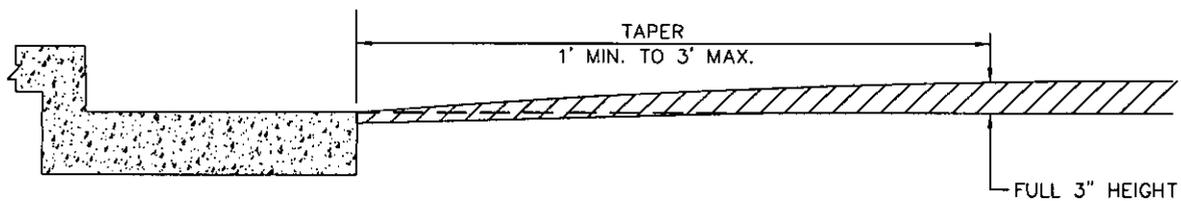


SECTION A-A

TYPICAL UNDULATION CROSS SECTION DETAIL
NOT TO SCALE



PAVEMENT UNDULATIONS
NOT TO SCALE

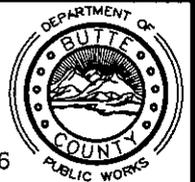


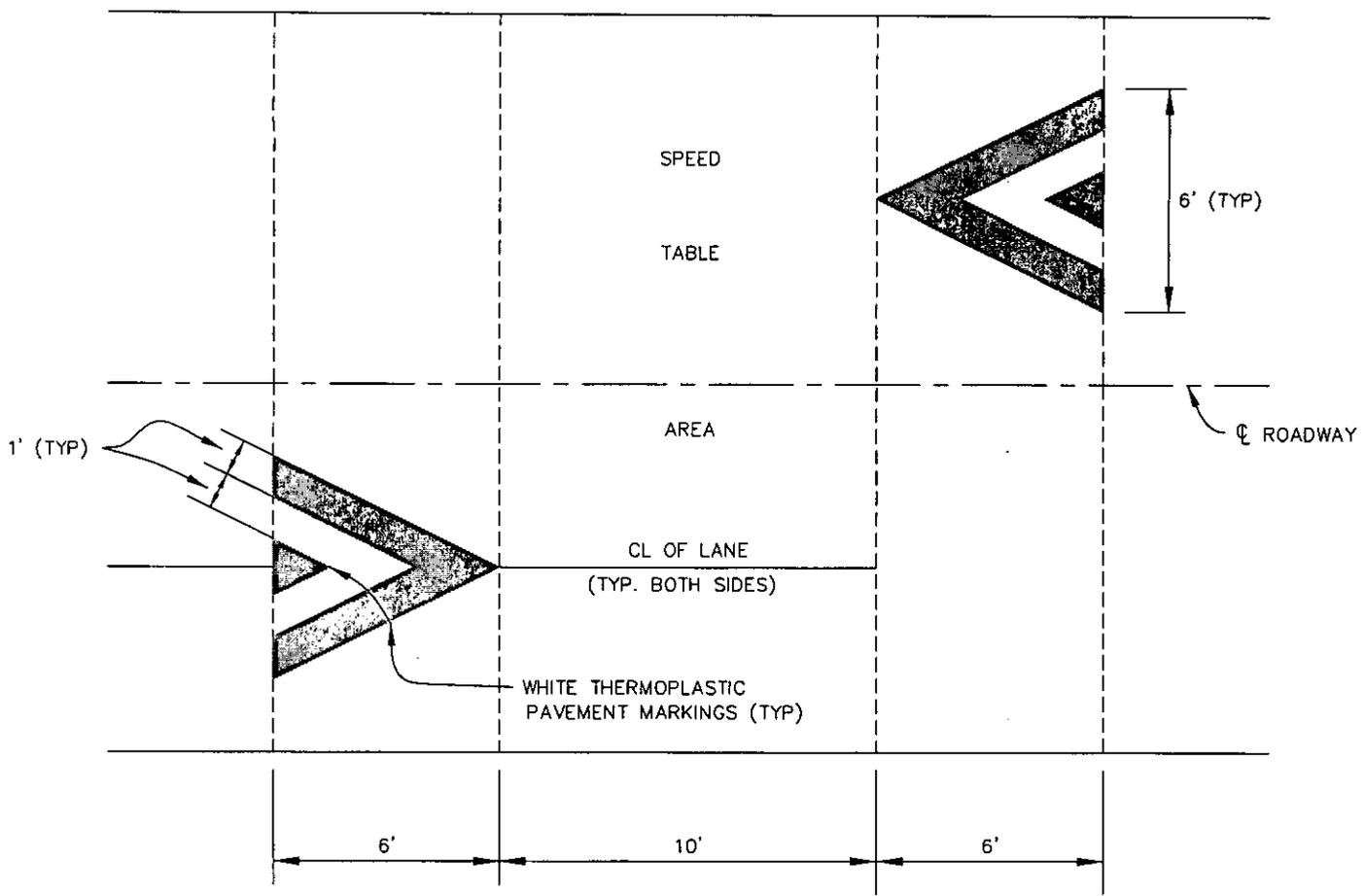
UNDULATION CURBLINE TAPER DETAIL
NOT TO SCALE

12' SPEED HUMP

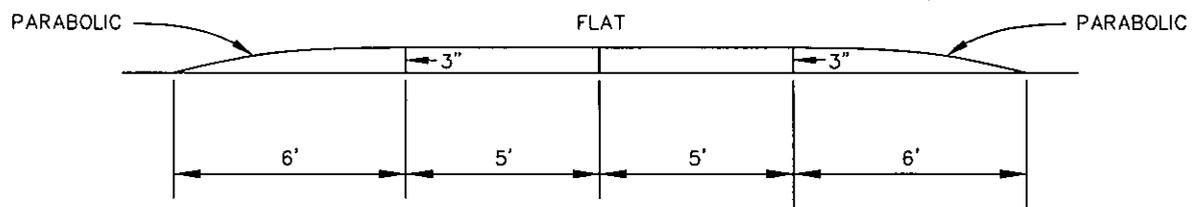
COUNTY STANDARD NO.
S-43
N.T.S.

RES 06-149 10/24/06

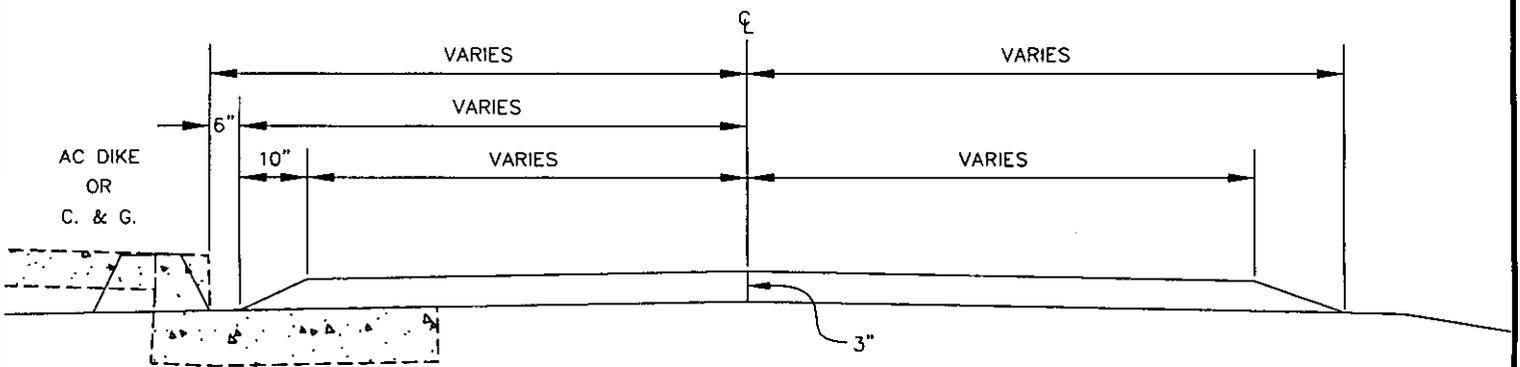




PLAN VIEW



PROFILE VIEW



X-SECTION VIEW

SPEED TABLE
 COUNTY STANDARD NO.
 S-44
 N.T.S.

RES 06-149 10/24/06

