

1. 1.5" ASPHALTIC CONCRETE SURFACE (307-CW)
2. TACK COAT (403) 0.10 GAL/S.Y.
3. 3" ASPHALTIC CONCRETE BASE (307-B MODIFIED)
4. PRIME COAT (402) 0.30 GAL/S.Y.
5. 8" COMPACTED STONE BASE MINIMUM 97% STANDARD PROCTOR DENSITY (GRADING D PUG MILL MIX)

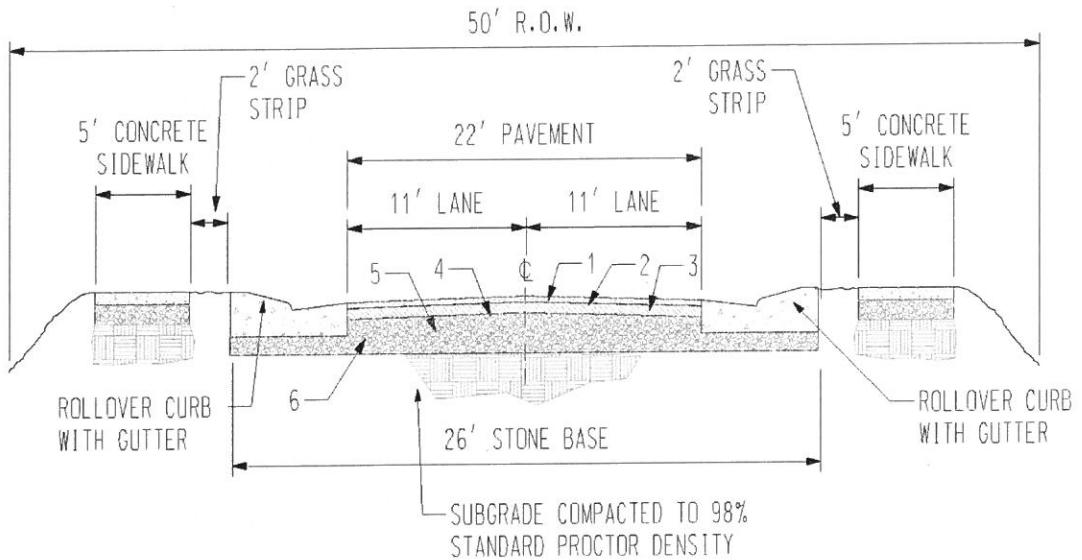
NOTES:

1. SIDEWALK REQUIRED ON BOTH SIDES OF THE ROAD.
(SEE SIDEWALK STANDARD DETAIL)
2. SEE 8" EXTRUDED CONCRETE CURB DETAIL.

**RESIDENTIAL NEIGHBORHOOD
MINOR STREET WITH
8" EXTRUDED CONCRETE CURB
(50' R.O.W.)**

REVISION:
DATE:

0



1. 1.5" ASPHALTIC CONCRETE SURFACE (307-CW)
2. TACK COAT (403) 0.10 GAL/S.Y.
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6. BASE MATERIAL FOR CURB AND GUTTER SHALL BE NO LESS THAN 4".

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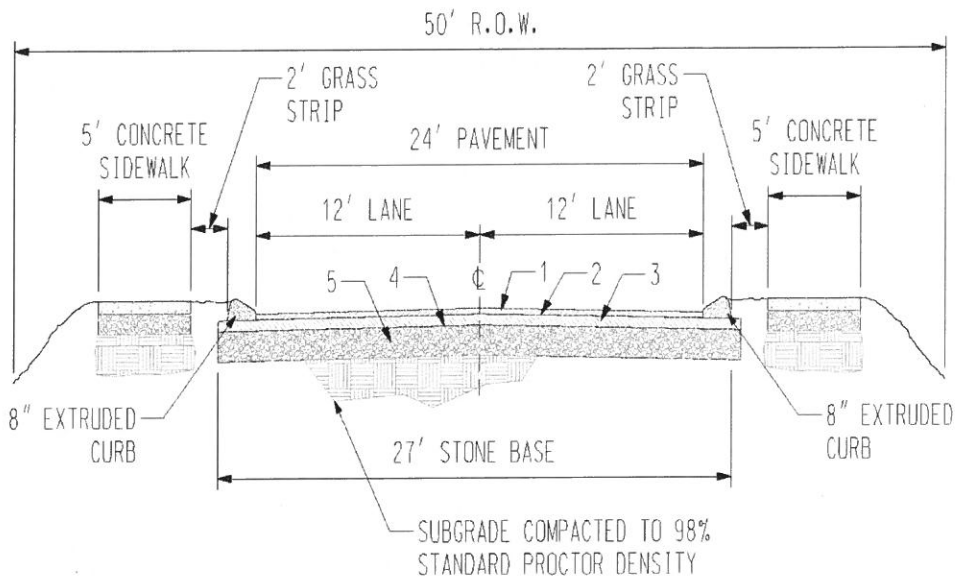
1. SIDEWALK REQUIRED ON BOTH SIDES OF THE ROAD.
(SEE SIDEWALK STANDARD DETAIL SHEET)
2. STANDARD ROLLOVER CURB AND GUTTER (SEE ROLLOVER CURB WITH GUTTER STANDARD DETAIL).

**RESIDENTIAL NEIGHBORHOOD
MINOR STREET WITH
ROLLOVER CURB AND GUTTER
(50' R.O.W.)**

REVISION:

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DATE:



1. 1.5" ASPHALTIC CONCRETE SURFACE (307-CW)
2. TACK COAT (403) 0.10 GAL/S.Y.
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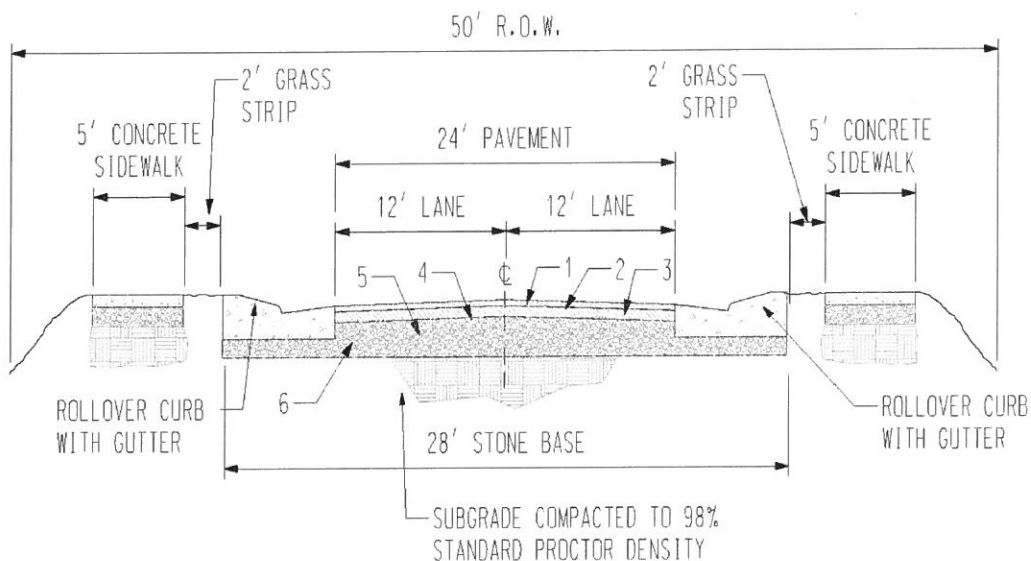
1. SIDEWALK REQUIRED ON ONE SIDE OF THE ROAD.
(SEE SIDEWALK STANDARD DETAIL)
2. SEE 8" EXTRUDED CONCRETE CURB DETAIL.

**RESIDENTIAL NEIGHBORHOOD
COLLECTOR STREET WITH
8" EXTRUDED CONCRETE CURB
(50' R.O.W.)**

REVISION:

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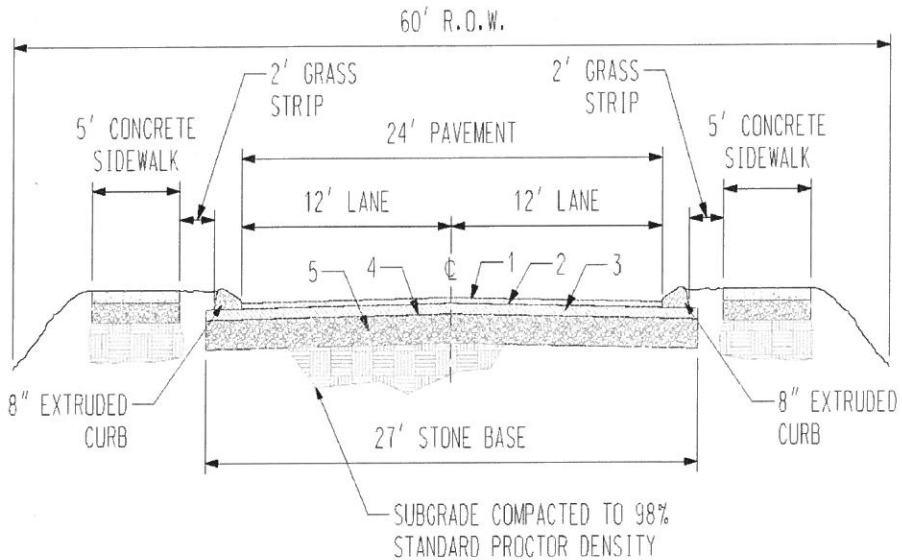
1. SIDEWALK REQUIRED ON BOTH SIDES OF THE ROAD.
(SEE SIDEWALK STANDARD DETAIL SHEET)
2. STANDARD ROLLOVER CURB AND GUTTER (SEE ROLLOVER CURB WITH GUTTER STANDARD DETAIL).

**RESIDENTIAL NEIGHBORHOOD
COLLECTOR STREET WITH
ROLLOVER CURB AND GUTTER
(50' R.O.W.)**

REVISION:

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DATE:



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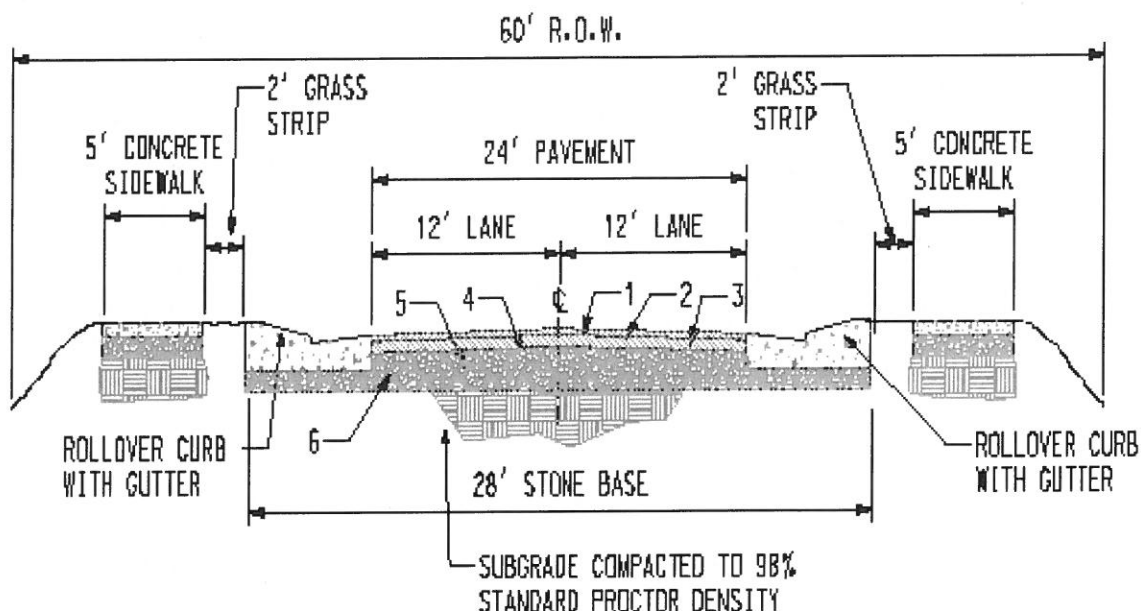
1. SIDEWALK REQUIRED ON BOTH SIDES OF THE ROAD.
(SEE SIDEWALK STANDARD DETAIL)
2. SEE 8" EXTRUDED CONCRETE CURB DETAIL.

**RESIDENTIAL COLLECTOR
STREET WITH
8" EXTRUDED CONCRETE CURB
(60' R.O.W.)**

REVISION:

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DATE:



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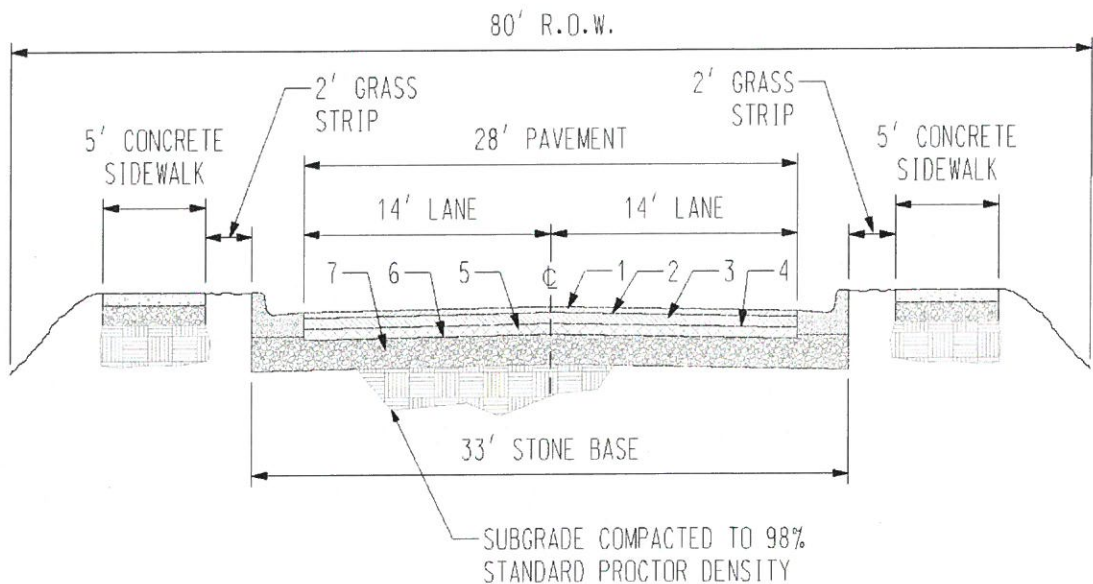
NOTES:

1. SIDEWALK REQUIRED ON BOTH SIDES OF THE ROAD.
(SEE SIDEWALK STANDARD DETAIL SHEET)
2. STANDARD ROLLOVER CURB AND GUTTER (SEE ROLLOVER CURB WITH GUTTER STANDARD DETAIL).

**RESIDENTIAL
COLLECTOR STREET WITH
ROLLOVER CURB AND GUTTER
(60 R.O.W.)**

REVISION
DATE

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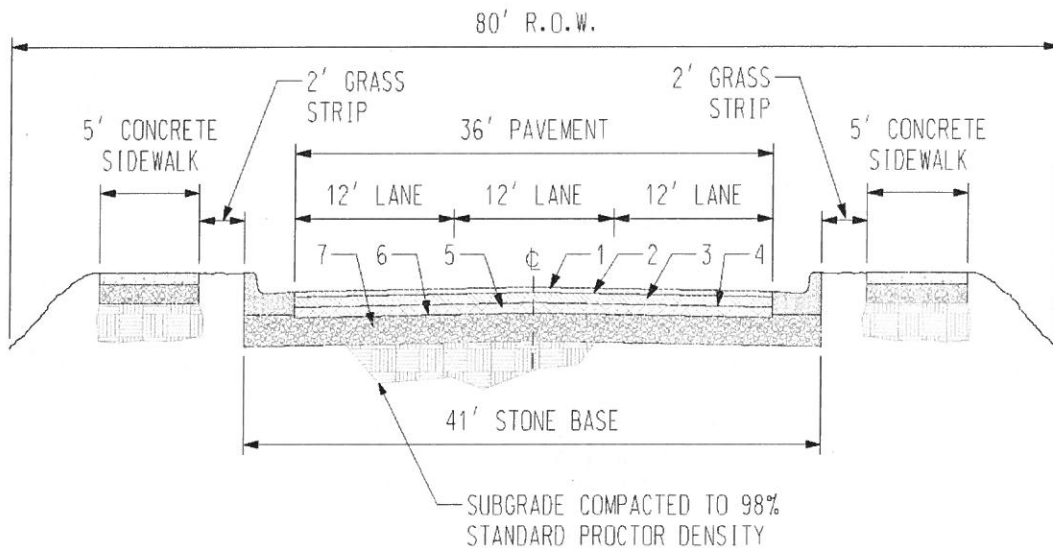
1. SIDEWALKS REQUIRED ON BOTH SIDES OF THE ROAD.
(SEE SIDEWALK STANDARD DETAIL SHEET)
2. STANDARD CURB AND GUTTER (24" GUTTER WIDTH
AND 6" CURB WIDTH).

RESIDENTIAL ARTERIAL STREET (2-LANE) (80' R.O.W.)

REVISION:

0

DATE:



1. 1.5" ASPHALTIC CONCRETE SURFACE (411-D)
2. TACK COAT (403) 0.10 GAL/S.Y.
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(SEE SIDEWALK STANDARD DETAIL SHEET)
2. STANDARD CURB AND GUTTER (24" GUTTER WIDTH
AND 6" CURB WIDTH).

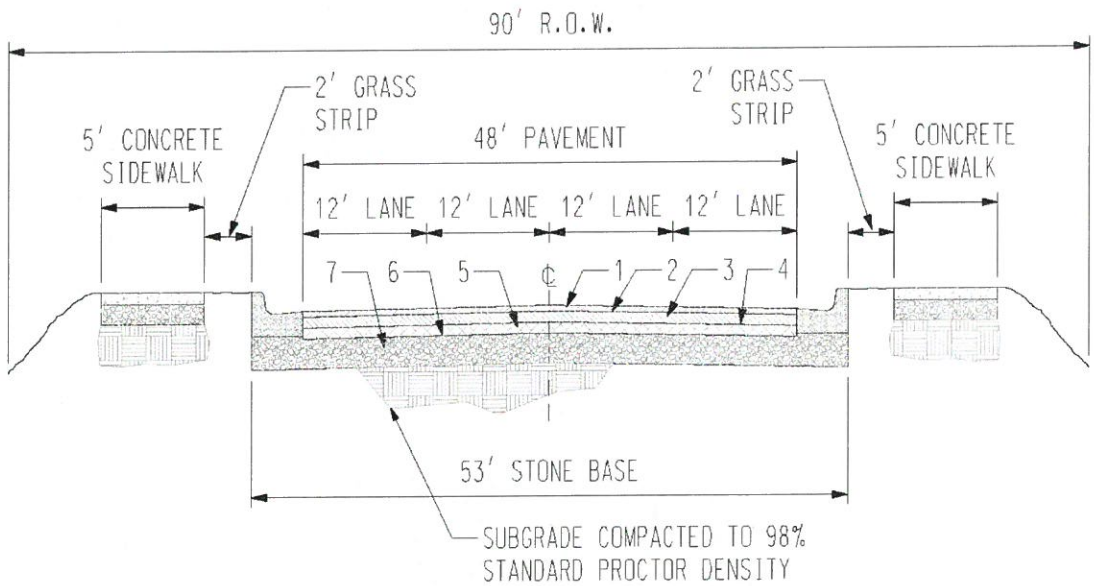
RESIDENTIAL ARTERIAL STREET (3-LANE) (80' R.O.W.)

REVISION:

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DATE:

5/02/2008



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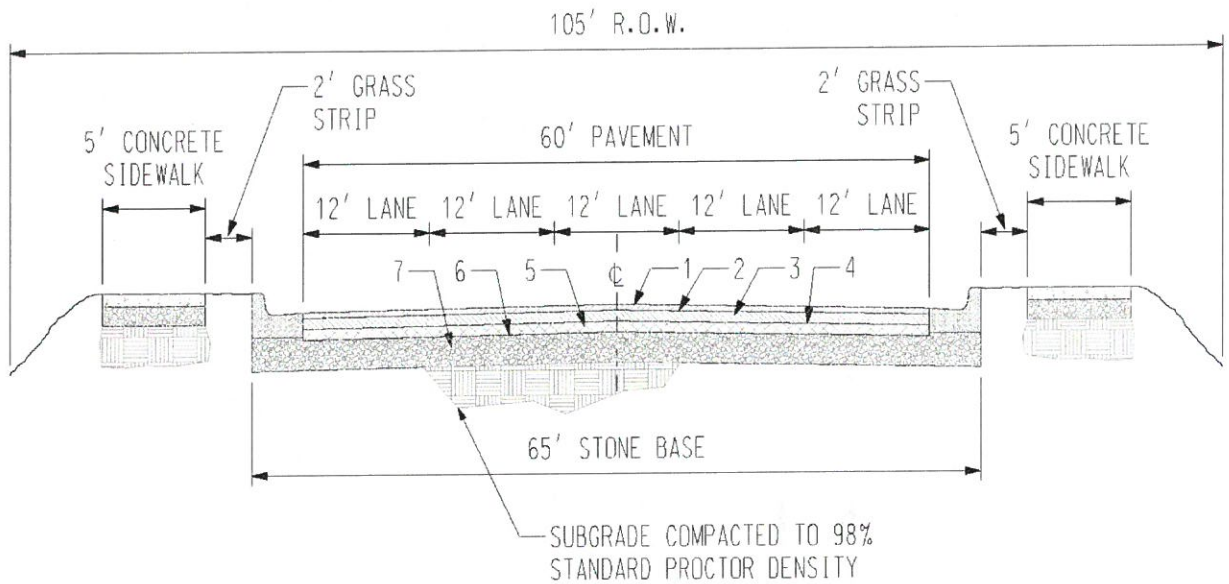
1. SIDEWALKS REQUIRED ON BOTH SIDES OF THE ROAD.
(SEE SIDEWALK STANDARD DETAIL SHEET)
2. STANDARD CURB AND GUTTER (24" GUTTER WIDTH AND 6" CURB WIDTH).

RESIDENTIAL ARTERIAL STREET (4-LANE) (90' R.O.W.)

REVISION:

0

DATE:



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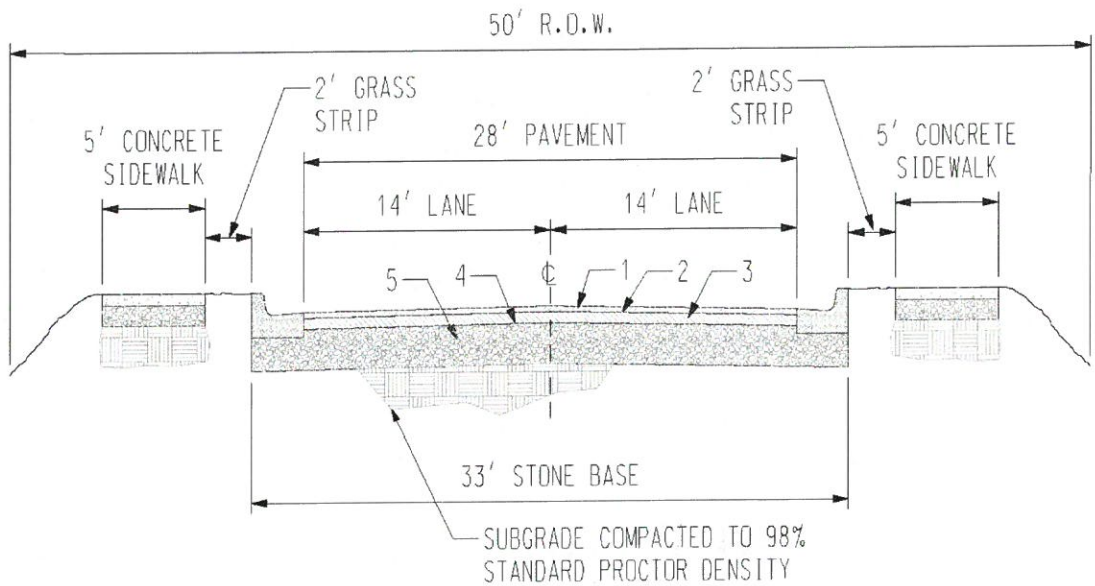
1. SIDEWALKS REQUIRED ON BOTH SIDES OF THE ROAD.
(SEE SIDEWALK STANDARD DETAIL SHEET)
2. STANDARD CURB AND GUTTER (24" GUTTER WIDTH
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RESIDENTIAL ARTERIAL STREET (5-LANE) (105' R.O.W.)

REVISION:

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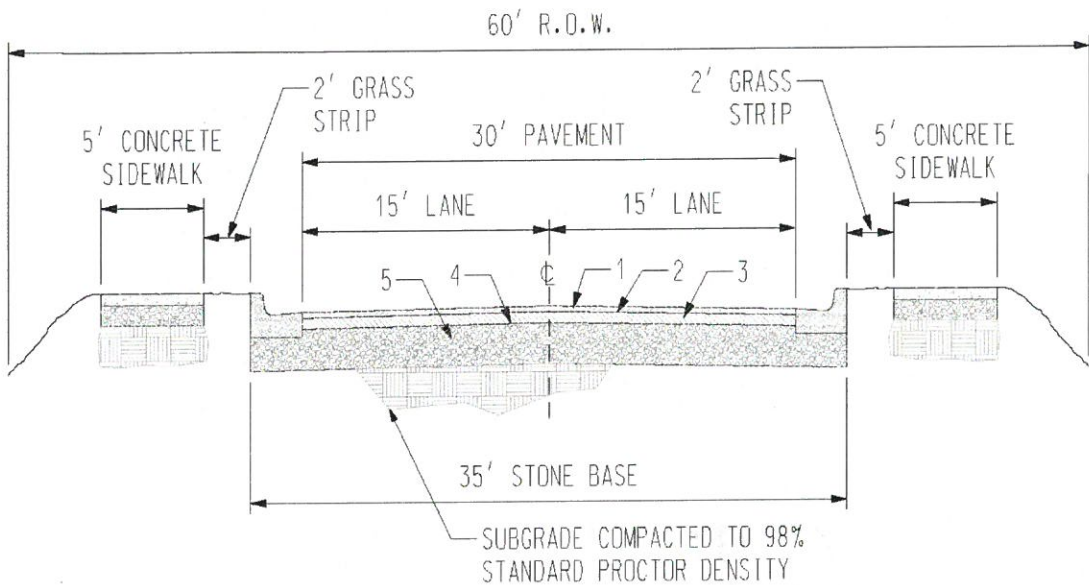
1. SIDEWALKS REQUIRED ON BOTH SIDES OF THE ROAD.
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NON-RESIDENTIAL MINOR STREET (50' R.O.W.)

REVISION:

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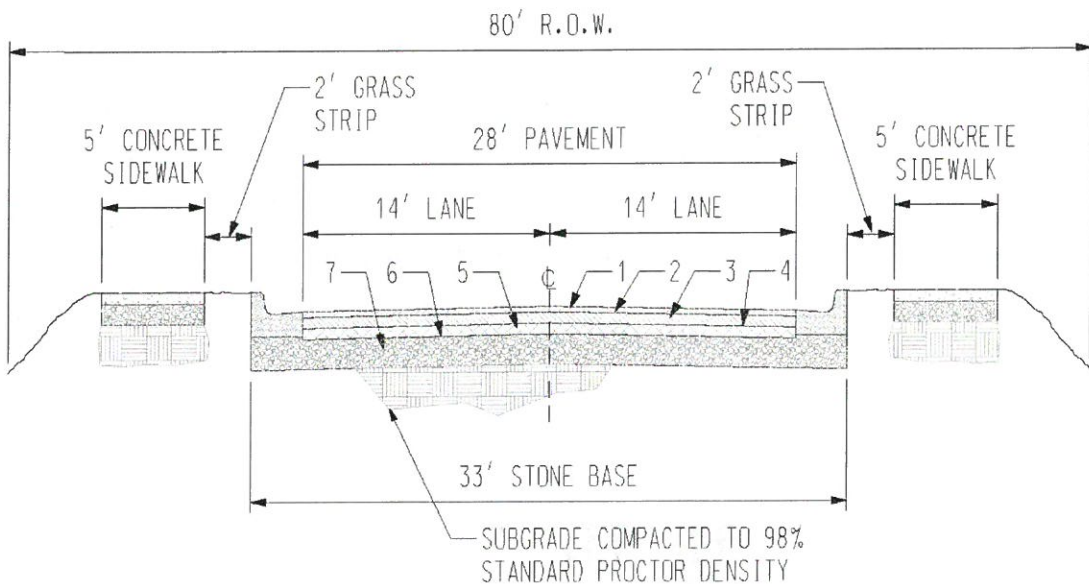
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NON-RESIDENTIAL COLLECTOR STREET (60' R.O.W.)

REVISION:

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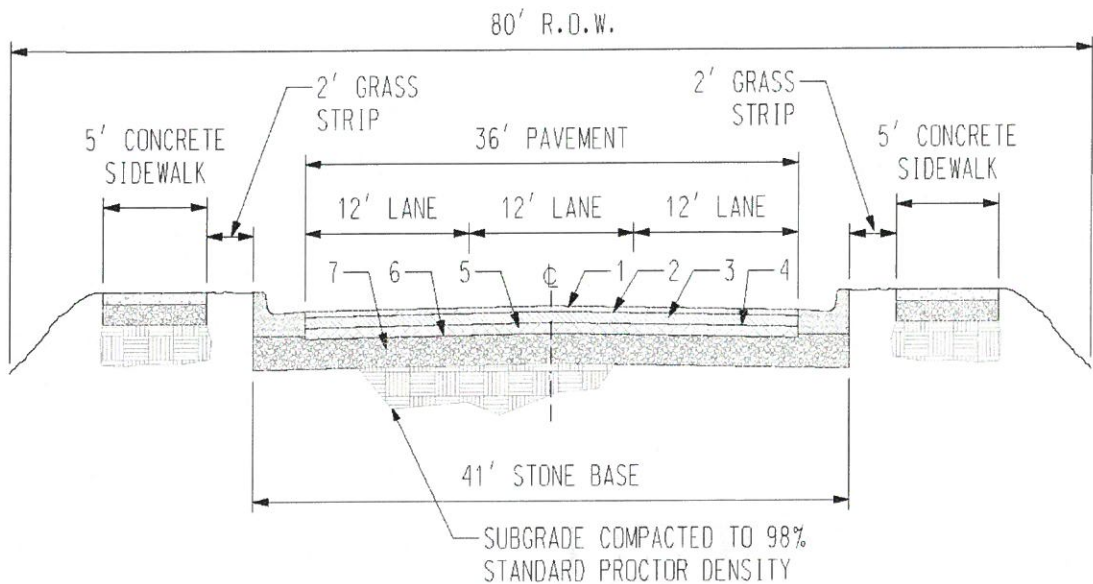
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NON-RESIDENTIAL ARTERIAL STREET (2-LANE (80' R.O.W.)

REVISION:

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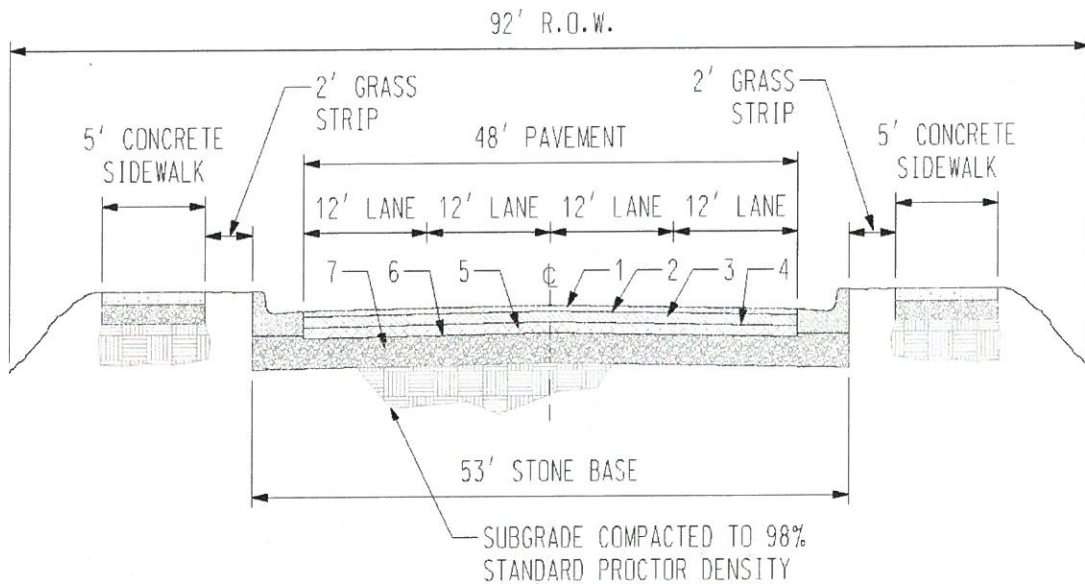
1. SIDEWALKS REQUIRED ON BOTH SIDES OF THE ROAD.
(SEE SIDEWALK STANDARD DETAIL SHEET)
2. STANDARD CURB AND GUTTER (24" GUTTER WIDTH
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NON-RESIDENTIAL ARTERIAL STREET (3-LANE (80' R.O.W.))

REVISION:

0

DATE:



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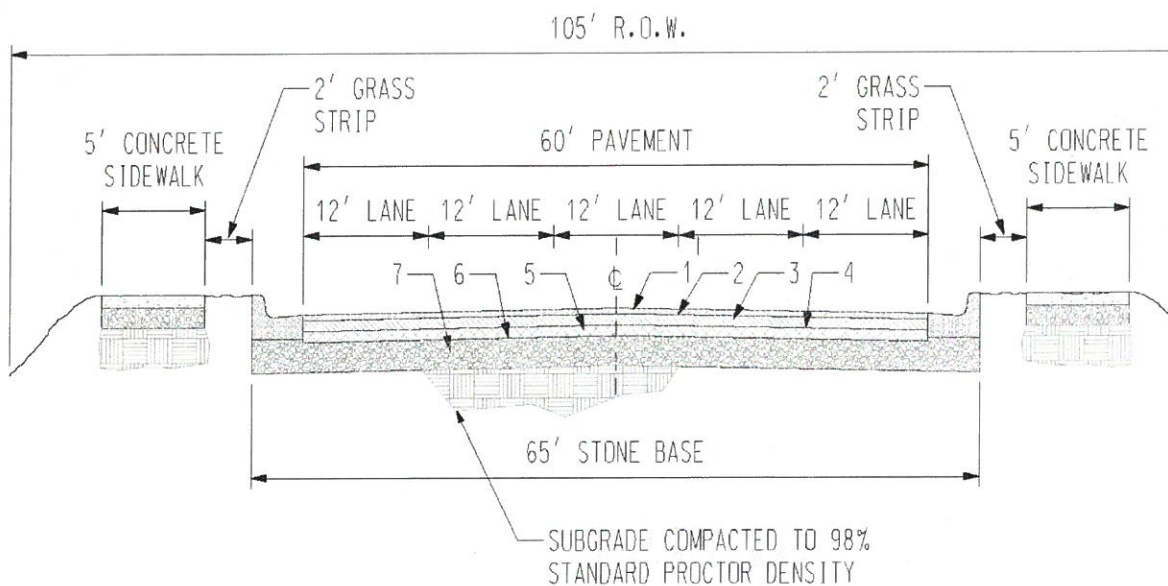
1. SIDEWALKS REQUIRED ON BOTH SIDES OF THE ROAD.
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2. STANDARD CURB AND GUTTER (24" GUTTER WIDTH
AND 6" CURB WIDTH).

NON-RESIDENTIAL ARTERIAL STREET (4-LANE (92' R.O.W.))

REVISION:

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DATE:



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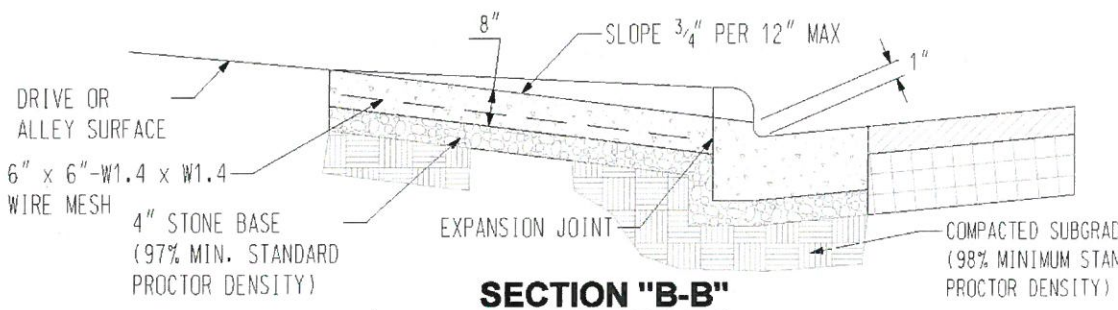
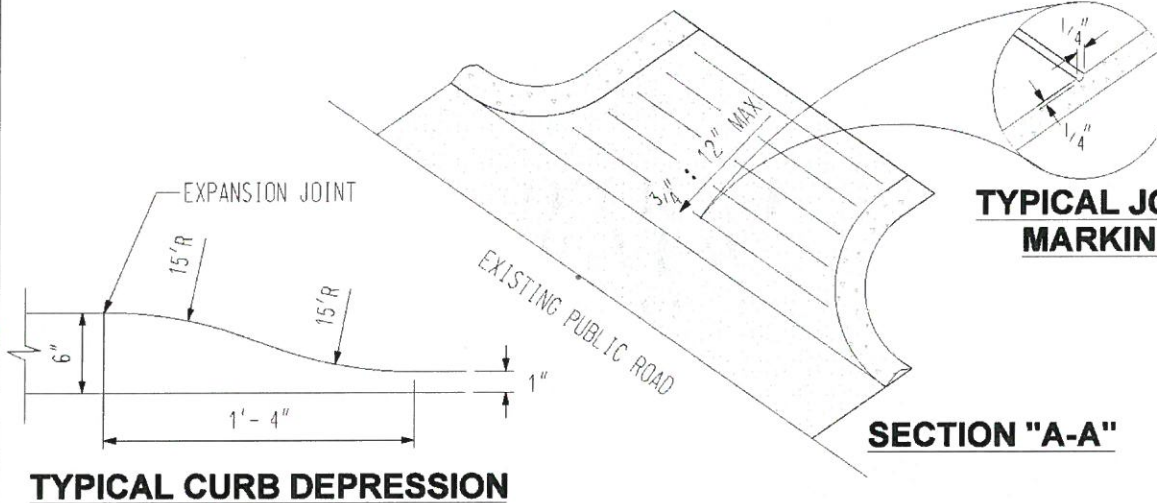
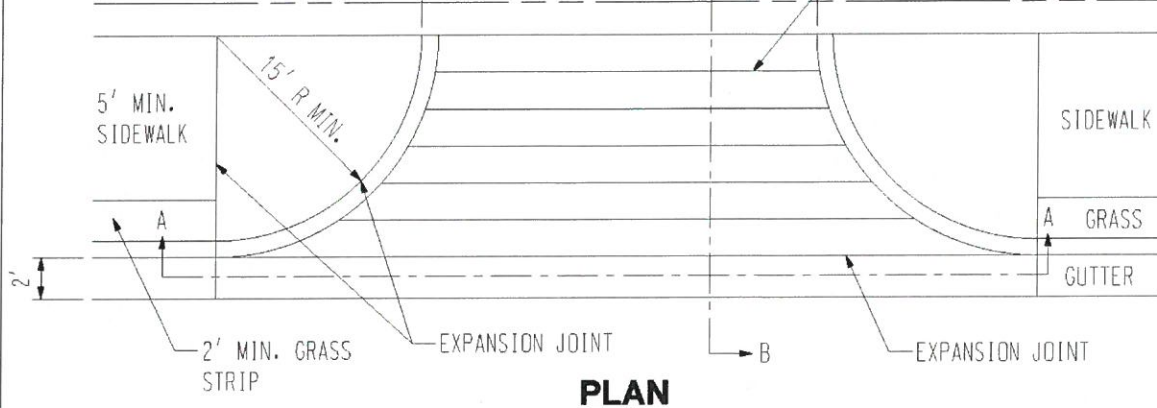
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NON-RESIDENTIAL ARTERIAL STREET (5-LANE (105' R.O.W.)

REVISION:

0

DATE:

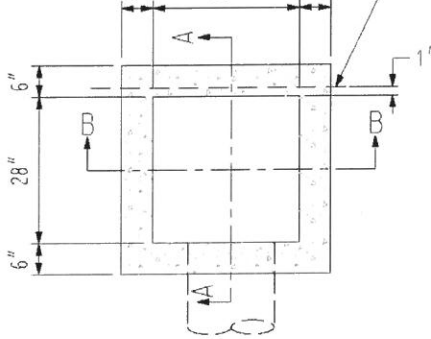


NON-RESIDENTIAL DRIVEWAY RAMP (CONCRETE)

REVISION:

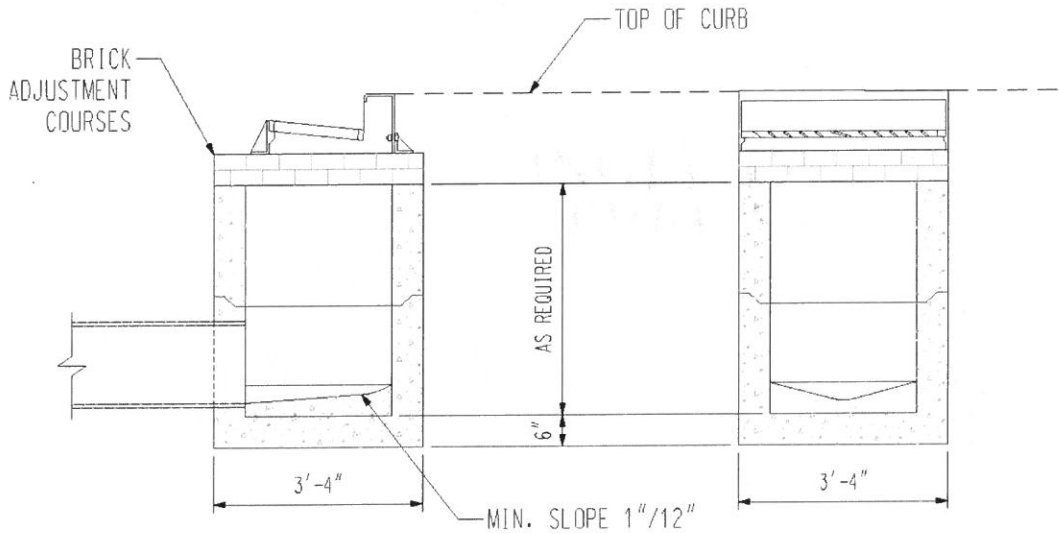
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DATE:



NOTE: CASTING FOR STANDARD CURB AND GUTTER SHOWN (DR-129). ACCEPTABLE SUBSTITUTES WHERE USE IS DIRECTED ARE DR-130, DR-132, DR-133.

PLAN



SECTION "A-A"

SECTION "B-B"

CONCRETE: 4,000 PSI AT 28 DAYS
REINFORCED WITH NO. 4 GRADE 60 BARS

SINGLE INLET (PRECAST)

REVISION:

0

DATE:

NOTES:

1. POURED-IN-PLACE CATCH BASINS ARE NOT ALLOWED UNLESS SPECIAL CONDITIONS EXIST WHICH PREVENTS A PRECAST STRUCTURE FROM BEING UTILIZED AND SHALL REQUIRE APPROVAL BY THE PUBLIC WORKS DEPARTMENT PRIOR TO INSTALLTION. IF APPROVED, THE POURED-IN-PLACE CATCH BASIN SHALL BE FORMED WITH STANDARD PLYWOOD FORMING MATERIALS UTILIZING NO. 4 REINFORCEMENT STEEL EVERY 6", 4,000 PSI CONCRETE, AND DIMENSIONS AS INDICATED BY THIS STANDARD DRAWING.
2. ADJUSTMENT COURSE BRICK, PIPE CONNECTION, AND CASTING CONNECTION SHALL BE SEALED ENTIRELY WITH NON-SHRINK GROUT.
3. ROCKS, WOOD, AND OTHER FOREIGN MATERIAL SHALL NOT BE ALLOWED FOR PIPE CONNECTION OR CASTING CONNECTION AND ADJUSTMENTS.
4. ALIGNMENT AND SETTING OF THE CASTING SHALL BE AS INDICATED ON THIS DRAWING AND SHALL BE PLACED ON THE PRECAST STRUCTURE WITH NO NON-BEARING GAPS ALLOWED.
5. CASTING CURB BACK TO INCLUDE "NO DUMPING DRAINS TO RIVER" TEXT AND SHALL BE CAST AS PART OF THE CASTING.
6. ALL STRUCTURES LOCATED IN ROADWAYS SHALL BE BACKFILLED FULL DEPTH WITH TDOT #67 STONE. THE STRUCTURE SHALL SET ON A MINIMUM 6" THICK STONE BEDDING (TDOT #67 STONE).

SINGLE INLET (PRECAST) NOTES

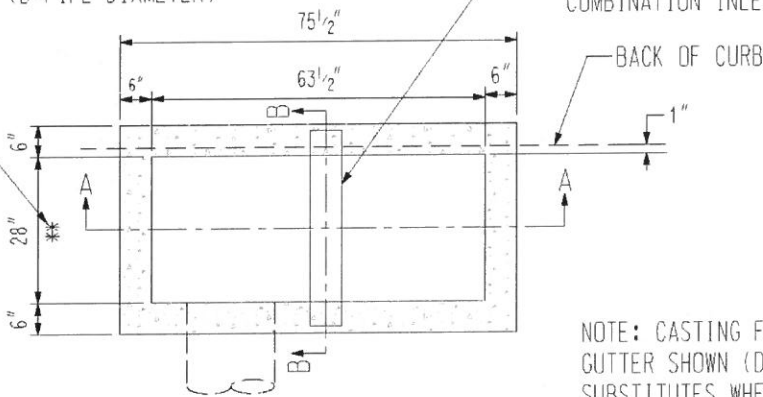
REVISION:

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DATE:

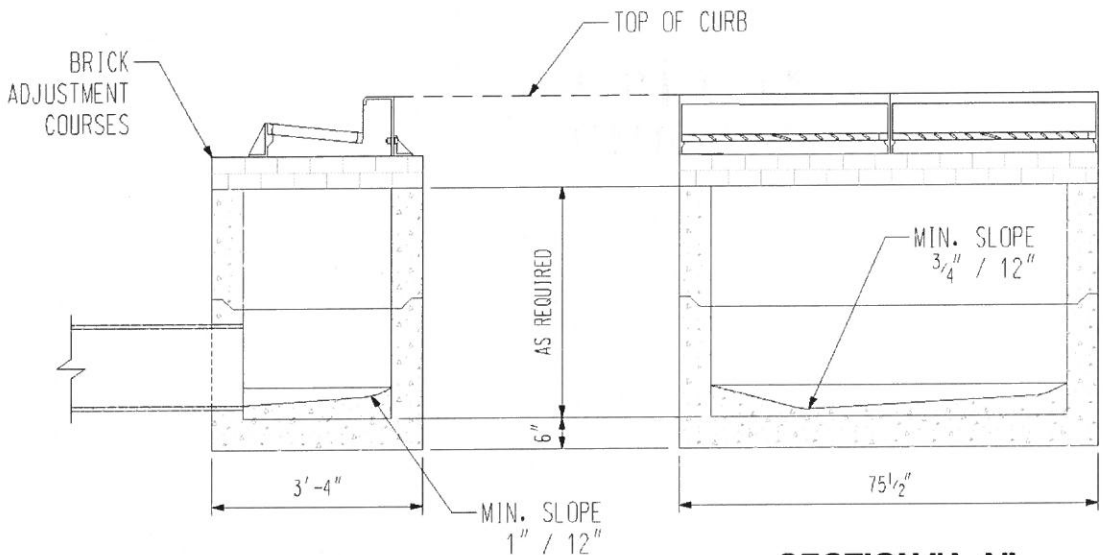
COMBINATION INLET
(D=PIPE DIAMETER)

OR R+10" FOR
COMBINATION INLET



PLAN

NOTE: CASTING FOR STANDARD CURB AND GUTTER SHOWN (DR-129). ACCEPTABLE SUBSTITUTES WHERE USE IS DIRECTED ARE DR-130 AND DR-132.



SECTION "B-B"

SECTION "A-A"

CONCRETE: 4,000 PSI AT 28 DAYS
REINFORCED WITH NO. 4 GRADE 60 BARS

DOUBLE INLET (PRECAST)

REVISION:

0

DATE:

NOTES:

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2. ADJUSTMENT COURSE BRICK, PIPE CONNECTION, AND CASTING CONNECTION SHALL BE SEALED ENTIRELY WITH NON-SHRINK GROUT.
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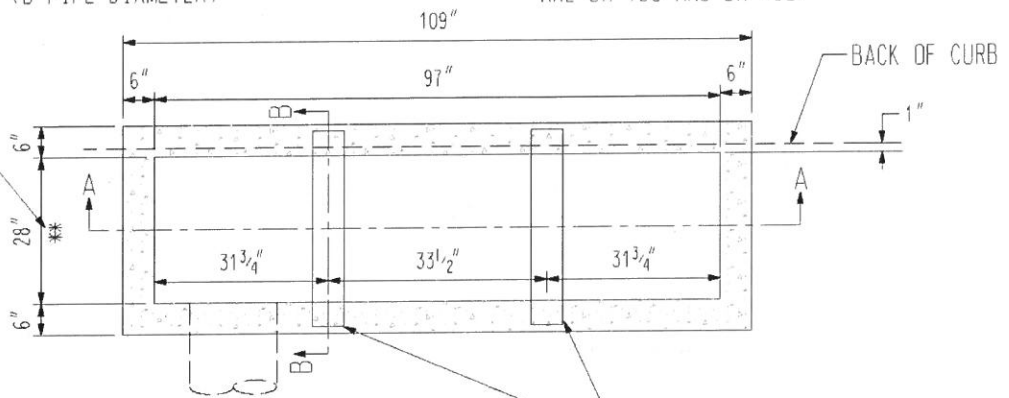
DOUBLE INLET (PRECAST) NOTES

REVISION:

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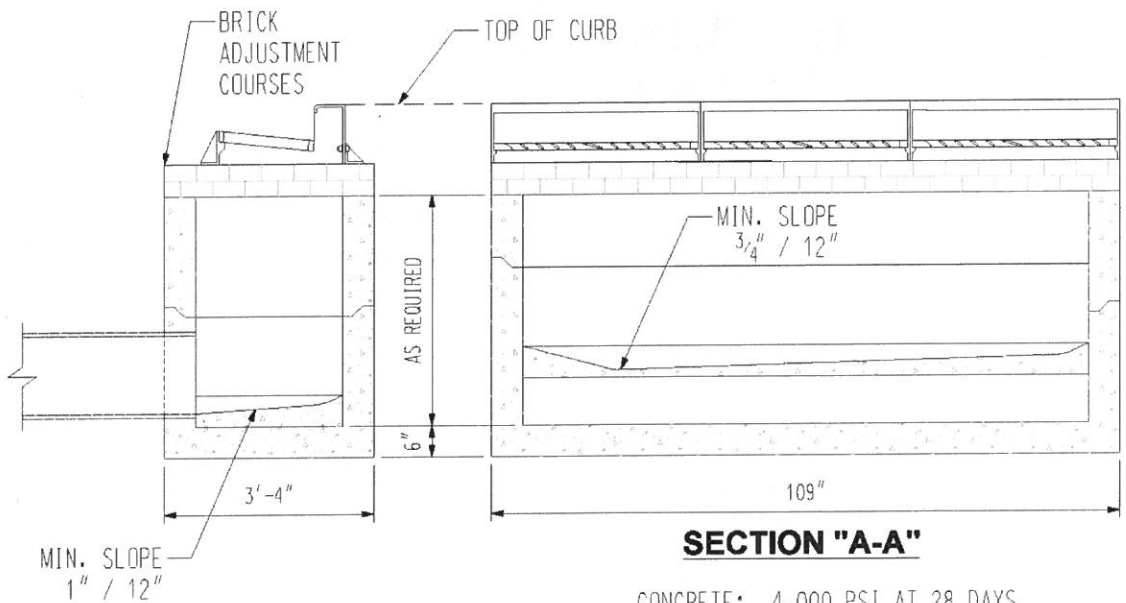
DATE:

ARE DR-130 AND DR-132.



PLAN

-CAST IRON LINTEL TO BE 1"x6"x38"
OR 1"x6"x(K+10") FOR COMBINATION
INLET



SECTION "A-A"

CONCRETE: 4,000 PSI AT 28 DAYS
REINFORCED WITH NO. 4 GRADE 60 BARS

TRIPLE INLET (PRECAST)

REVISION:	0			
DATE:				

NOTES:

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TRIPLE INLET (PRECAST) NOTES

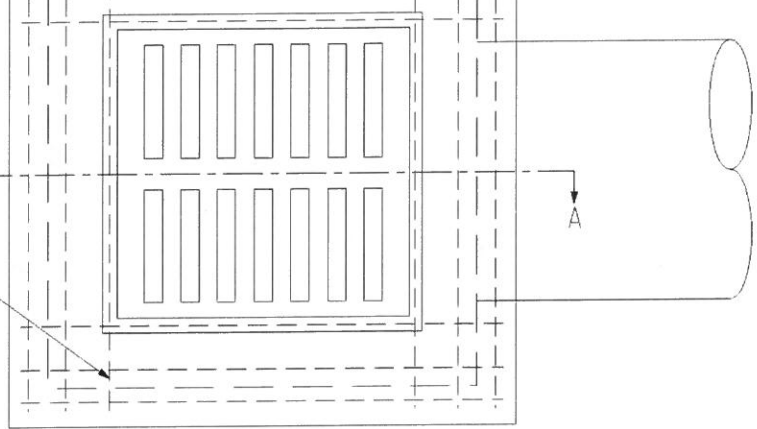
REVISION:

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DATE:

CONCRETE: 4,000 PSI
AT 28 DAYS REINFORCED
WITH NO. 4 GRADE 60 BARS

2-NO. 5 BARS
AT OPENING



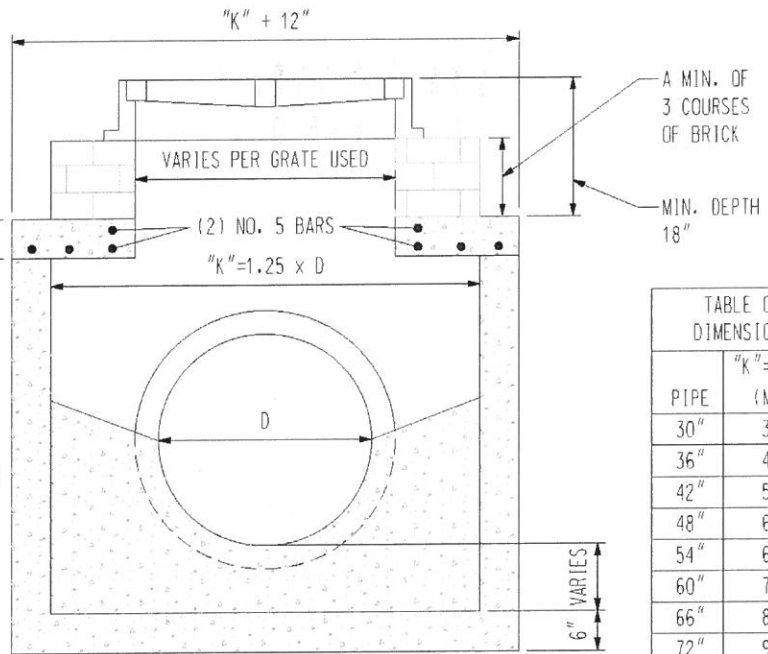
PLAN

NOTES

1. FRAME AND GRATE SHOWN ARE FOR FLUSH MOUNTED INLET (DR-132). ACCEPTABLE SUBSTITUTES WHERE USE IS DIRECTED ARE DR-129, DR-130, DR-133, AND DR-134 AND DR-135 WITH REFORMING OF CONCRETE SLAB FOR FRAME INSTALLATION

2. FOR DOUBLE AND TRIPLE INLETS SEE DR-110 AND DR-115.

3. COMBINATION INLETS ARE NOT ALLOWED FOR INSTALLATION WITHN PUBLIC ROADWAYS.



SECTION "A-A"

TABLE OF DIMENSIONS

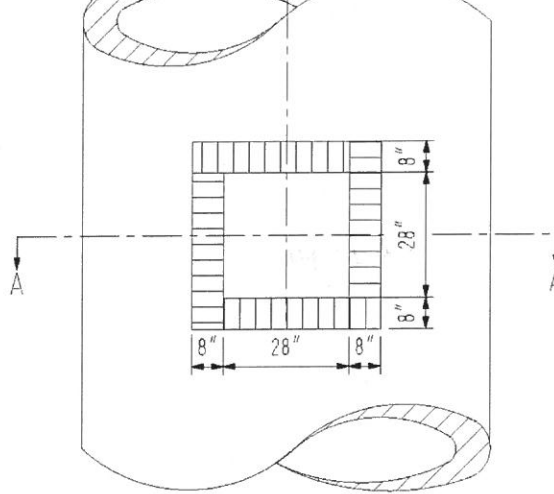
PIPE	"K" = 1.25D (MIN)
30"	38"
36"	45"
42"	53"
48"	60"
54"	68"
60"	75"
66"	83"
72"	90"

COMBINATION INLET (PRECAST)

REVISION:

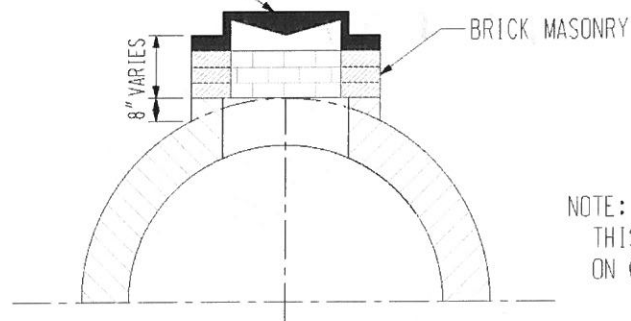
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DATE:



PLAN

FLUSH MOUNTED GRATE AND FRAME



NOTE:
THIS INLET TO BE USED
ON 60" PIPE AND LARGER

SECTION "A-A"

NOTES:

1. FRAME AND GRATE SHOWN ARE FOR FLUSH MOUNTED INLET (DR-132).
ACCEPTABLE SUBSTITUTES WHERE USE IS DIRECTED ARE DR-129, DR-130,
DR-133, AND DR-134 AND DR-135 WITH REFORMING OF CONCRETE
SLAB FOR FRAME INSTALLATION.
2. TYPE I INLETS TO BE INSTALLED ON RCP ONLY. INSTALLTION ON OTHER
TYPES OF PIPE MATERIALS IS NOT ALLOWED.

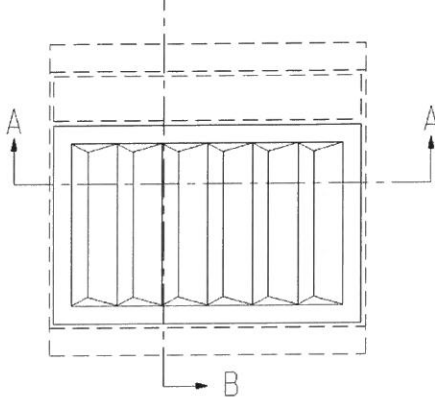
TYPE I INLET

REVISION:

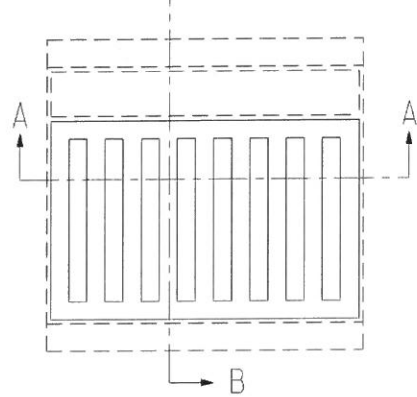
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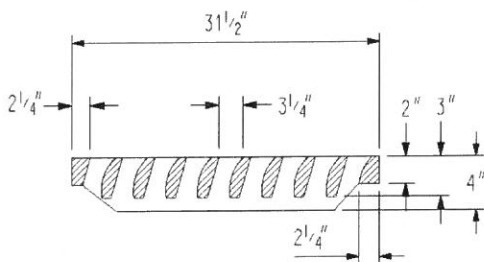
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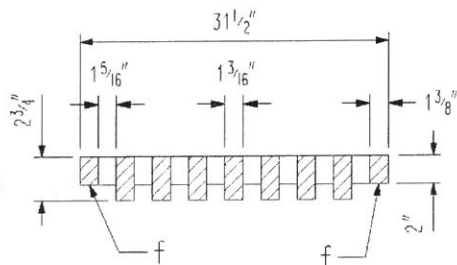
VANE GRATE TOP VIEW



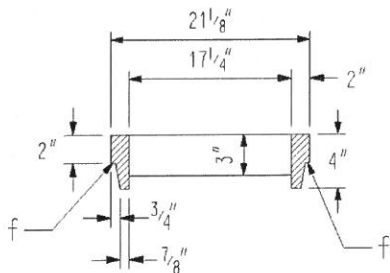
SUMP GRATE TOP VIEW



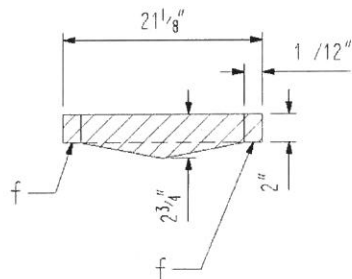
SECTION "A-A"



SECTION "A-A"



SECTION "B-B"



SECTION "B-B"

NOTES:

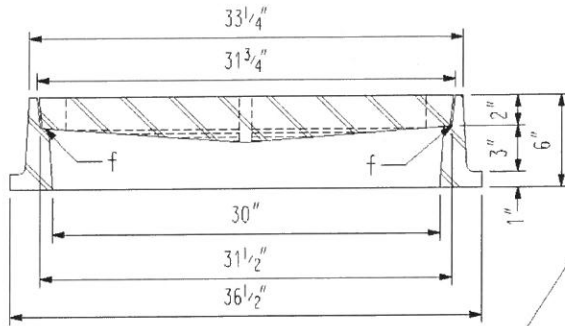
1. CONTACT SURFACES OF FRAME MARKED "F" ARE TO BE GROUND.
2. VANE AND SUMP GRATES TO BE JOHN BOUCHARD & SONS OR AN APPROVED EQUAL.

VANE AND SUMP GRATES

REVISION:

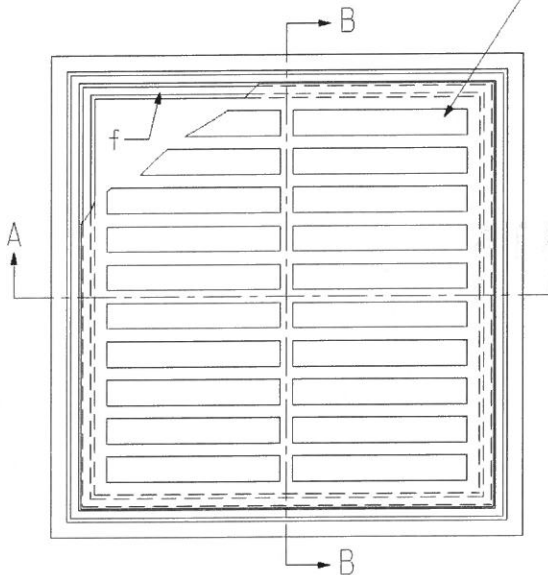
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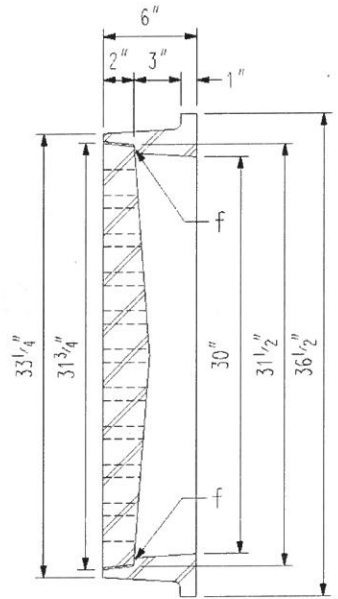


SECTION "A-A"

TOTAL AREA OF ALL
OPENINGS = 2.94 SQUARE FEET



PLAN



SECTION "B-B"

NOTES:

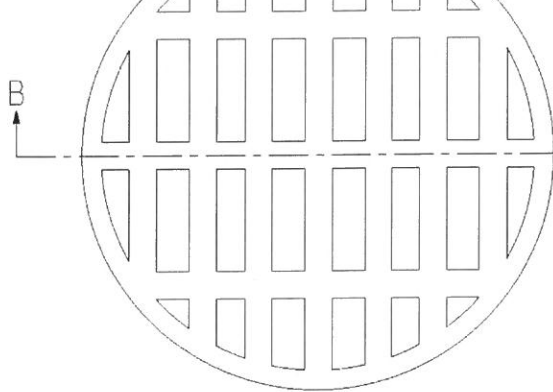
1. OMIT BASE FLANGE ON ONE SIDE OF FRAME FOR DOUBLE INSTALLATIONS AND END FRAMES OF OTHER MULTIPLE INSTALLATIONS. OMIT ON (2) TWO SIDES (OPPOSITE) FOR CENTER UNITS OF MULTIPLE INSTALLATIONS. FOR INSTALLATION WITH CURB INLETS, OMIT BASE ON ONE SIDE OF SINGLE, TWO ADJACENT SIDES OF DOUBLE, AND THREE SIDES OF CENTER UNITS OF OTHER MULTIPLE INSTALLATIONS.
2. CONTACT SURFACES OF FRAME AND GRATE MARKED "f" ARE TO BE GROUND.

FRAME AND GRATE FOR FLUSH MOUNTED INLETS

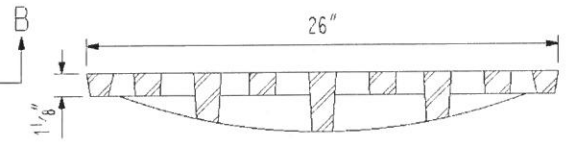
REVISION:

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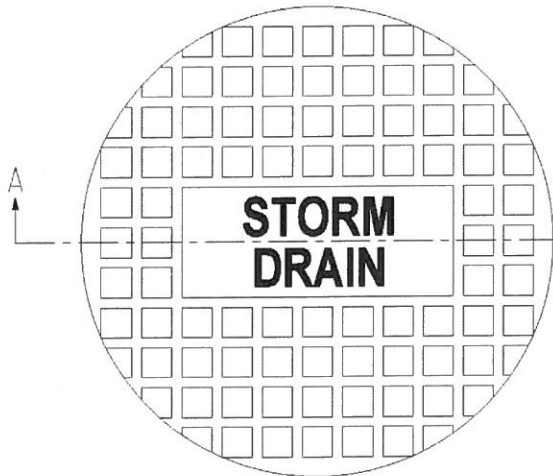
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**GRATE TYPE
TOP VIEW**

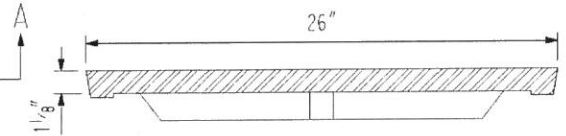


SECTION "B-B"



**STORM
DRAIN**

**SOLID LID
TOP VIEW**



SECTION "A-A"

NOTES:

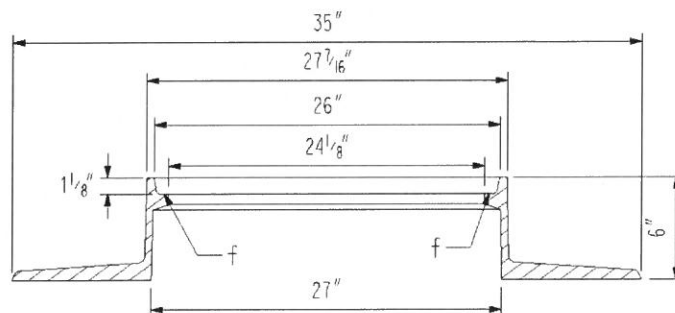
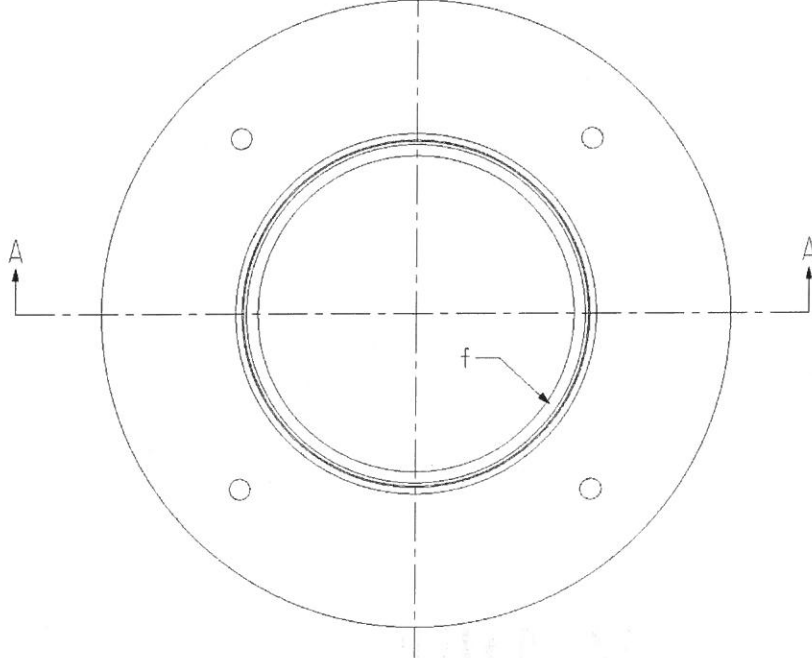
1. GRATE TYPE LID TO BE JOHN BOUCHARD & SONS LID 2155 OR AN APPROVED EQUAL.
2. SOLID TYPE LID TO BE JOHN BOUCHARD & SONS LID 1155 WITH TEXT "STORM DRAIN" CAST AS PART OF THE CASTING OR AN APPROVED EQUAL.

ROUND MANHOLE COVERS (GRATE & SOLID TYPE)

REVISION:

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DATE:



NOTES:

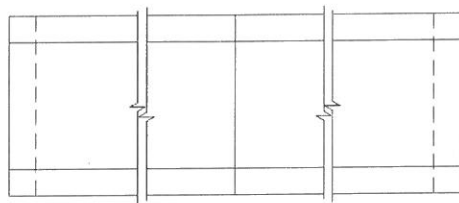
1. CONTACT SURFACE OF FRAME MARKED "f" IS TO BE MACHINED.
2. FRAMES TO BE JOHN BOUCHARD & SONS FRAME 1155/2155 OR AN APPROVED EQUAL.
3. SEE DETAIL SHEET "ROUND MANHOLE COVERS" FOR REFERENCE OF MANHOLE COVERS AND GRATES.

ROUND MANHOLE FRAME

REVISION:

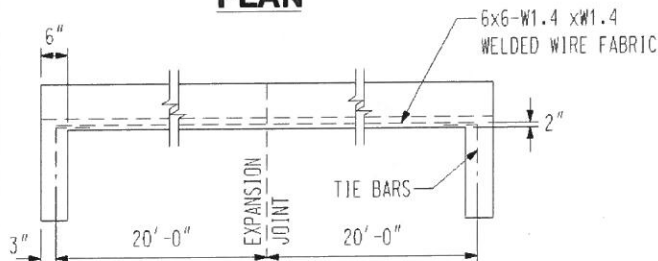
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DATE:

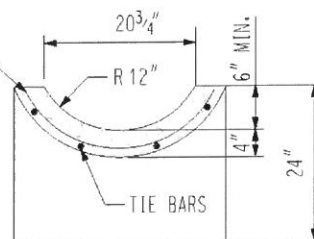


PLAN

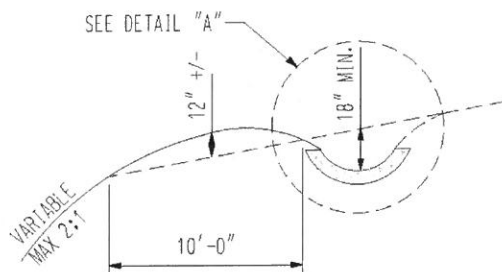
NO. 4 TIE BARS AT 6" O.C.



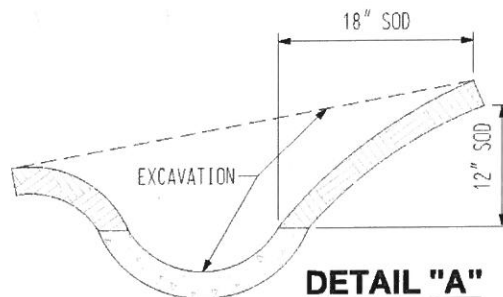
ELEVATION



SECTION "A-A"



TYPICAL PAVED DITCH



DETAIL "A"

NOTES:

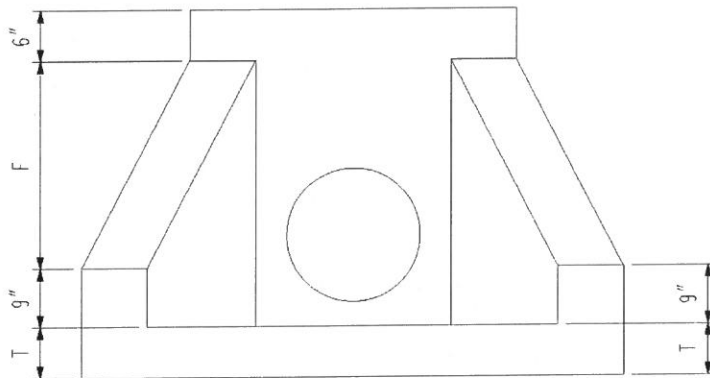
1. COMPACTION, FINISHING, AND CURING SHALL BE THE SAME AS REQUIRED FOR CONCRETE SIDEWALK WITH 4" STONE BASE.
2. IF CONTRACTOR ELECTS TO USE A CONSTRUCTION JOINT IN THE POURING OF THE PAVED DITCH, IT SHALL BE CONSTRUCTED AS DETAILED.
3. ANY LENGTH OF LONGITUDINAL REINFORCING STEEL WILL BE PERMITTED PROVIDED A 12" LAP IS USED IN THE SPLICE. ADEQUATE TIES AT THE SPLICE SHALL BE REQUIRED.
4. EXPANSION JOINTS REQUIRED ON 20' CENTERS.
5. SHOULD THE TERRAIN OF EXISTING GROUND BE SO THAT WATER WOULD DRAIN INTO THE DITCH FROM BOTH SIDES, THEN SODDING WILL BE REQUIRED ON BOTH SIDES OF THE DITCH.

DITCH DETAIL (SMALL SECTION)

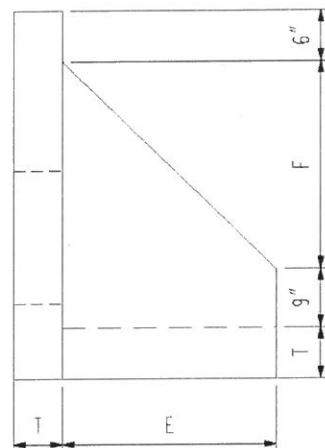
REVISION:

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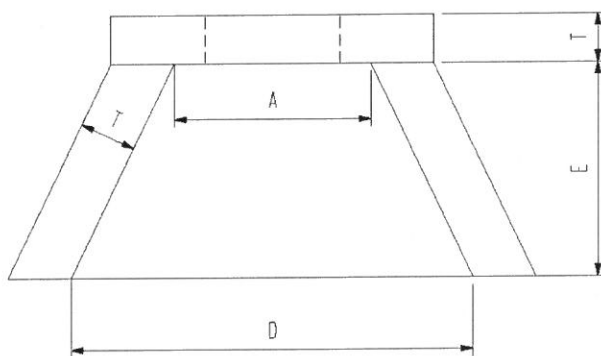
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FRONT VIEW



SIDE VIEW



TOP VIEW

TABLE OF DIMENSIONS

PIPE SIZES	A	D	E	F	T (MIN.)
15"	2'-6"	5'-0"	2'-6"	1'-9"	6"
18"	2'-6"	5'-0"	2'-6"	1'-9"	6"
21"	2'-6"	5'-0"	2'-6"	1'-9"	6"
24"	4'-0"	6'-6"	4'-0"	3'-3"	6"
30"	4'-0"	6'-6"	4'-0"	3'-3"	6"
36"	5'-6"	8'-0"	3'-6"	4'-5"	6"
42"	5'-6"	8'-0"	3'-6"	4'-5"	6"
48"	5'-6"	8'-0"	3'-6"	4'-5"	6"
54"	7'-0"	9'-5"	4'-6"	5'-9"	6"
60"	7'-0"	9'-5"	4'-6"	5'-9"	6"
66"	8'-6"	11'-0"	5'-6"	6'-11"	6"
72"	8'-6"	11'-0"	5'-6"	6'-11"	6"

NOTES:

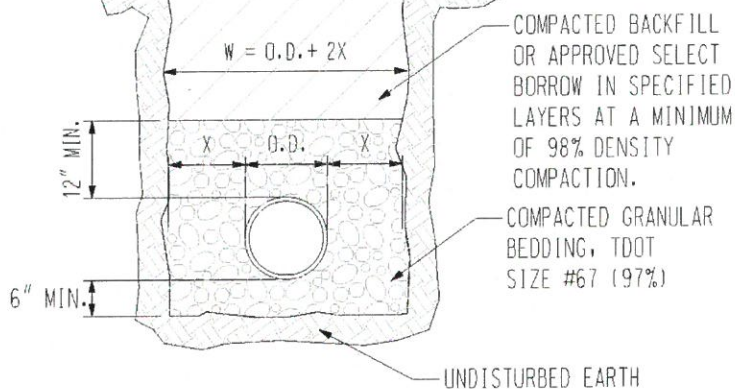
1. CONCRETE: 4,000 PSI AT 28 DAYS REINFORCED WITH NO. 4 BARS 10" C/C EACH WAY WITH WINGS AND TOE SLAB DOWELED TO HEADWALL WITH NO. 5 BARS.
2. $3/4$ " CHAMFER ON ALL EXPOSED EDGES.

CONCRETE HEADWALL

REVISION:

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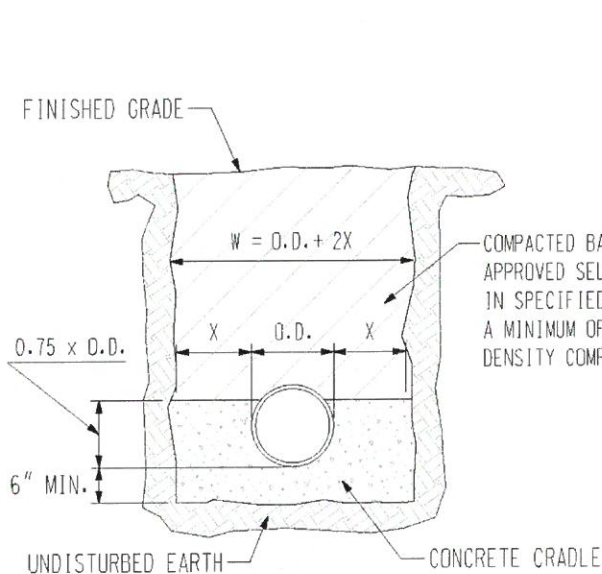
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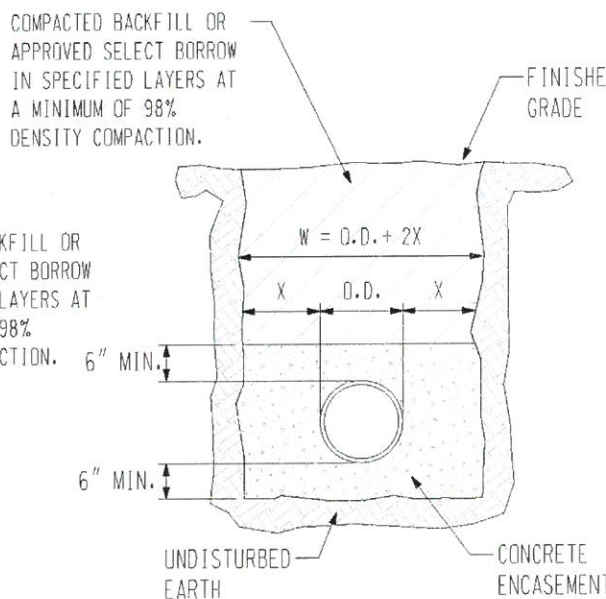
PIPE SIZE	X
12" & SMALLER	**
12" - 30"	12"
33" - 42"	15"
48" & LARGER	18"

**TRENCH WIDTH (W) SHALL BE 3'-0" MAX.
WIDTH OF TRENCH (W)=O.D. + 2X WHERE
X IS DISTANCE FROM OUTSIDE OF PIPE
TO EDGE OF TRENCH.

STANDARD TRENCH



CONCRETE CRADLE



CONCRETE ENCASEMENT

TRENCH BACKFILL

REVISION:

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DATE:

NOTES:

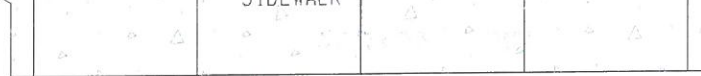
1. CONCRETE FOR CRADLES AND ENCASEMENTS TO HAVE $f'c=3,000$ PSI AT 28 DAYS.
2. POUR CONCRETE AGAINST UNDISTURBED EARTH.
3. FOR CONTINUOUS CONDUIT IN TRENCH CONDITIONS THE WIDTH OF TRENCH (W) SHALL BE O.D.+2X MAX.
4. THE WIDTH OF TRENCH FOR ALL OTHER PIPE DIAMETERS SHALL BE ACCORDING TO TABLE 3.
5. BACKFILL IN NEW AND EXISTING ROADWAYS SHALL BE FULL TRENCH DEPTH GRADING D PUG MILL MIX COMPACTED (MINIMUM 97% STANDARD PROCTOR DENSITY) IN 8" LAYERS UP TO THE BOTTOM OF THE PAVEMENT SECTION.
6. AN ALTERNATE BACKFILL SHALL CONSIST OF STONE BEDDING AND COVER AS INDICATED IN THE STANDARD "TRENCH BACKFILL" DETAIL WITH SUITABLE BACKFILL MATERIAL COMPACTED TO 98% DENSITY. THE SUITABLE BACKFILL MATERIAL SHALL BE APPROVED BY THE PUBLIC WORKS DIRECTOR OR HIS DESIGNEE AND SHALL BE PLACED IN 8" COMPACTED LIFTS.

TRENCH BACKFILL NOTES

REVISION:

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DATE:

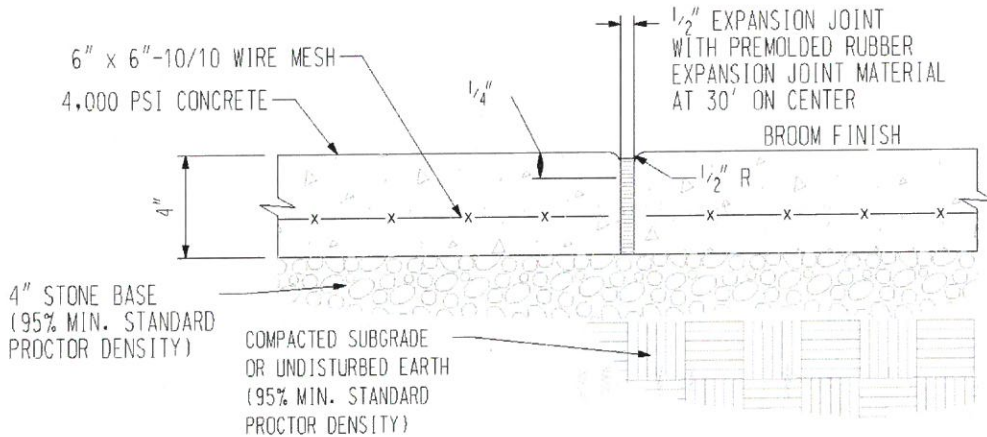


2' GRASS STRIP MIN.

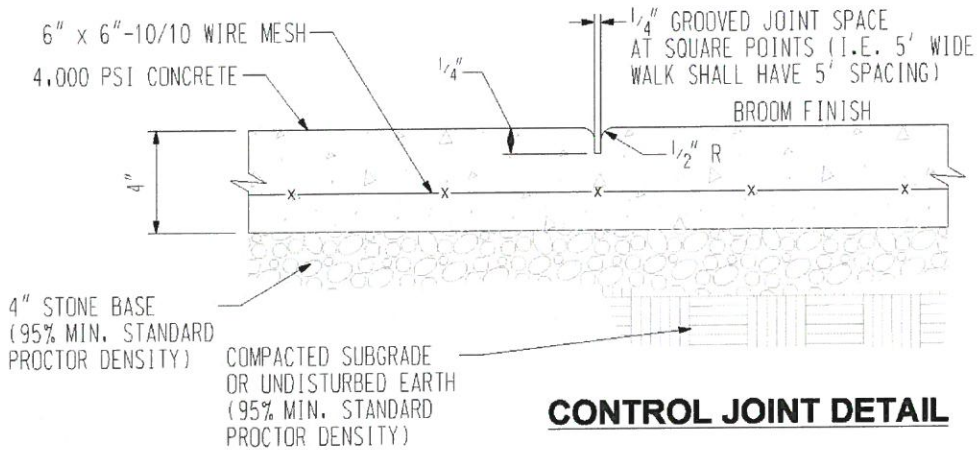
CURB

GUTTER

PLAN



EXPANSION / CONTRACTION JOINT DETAIL



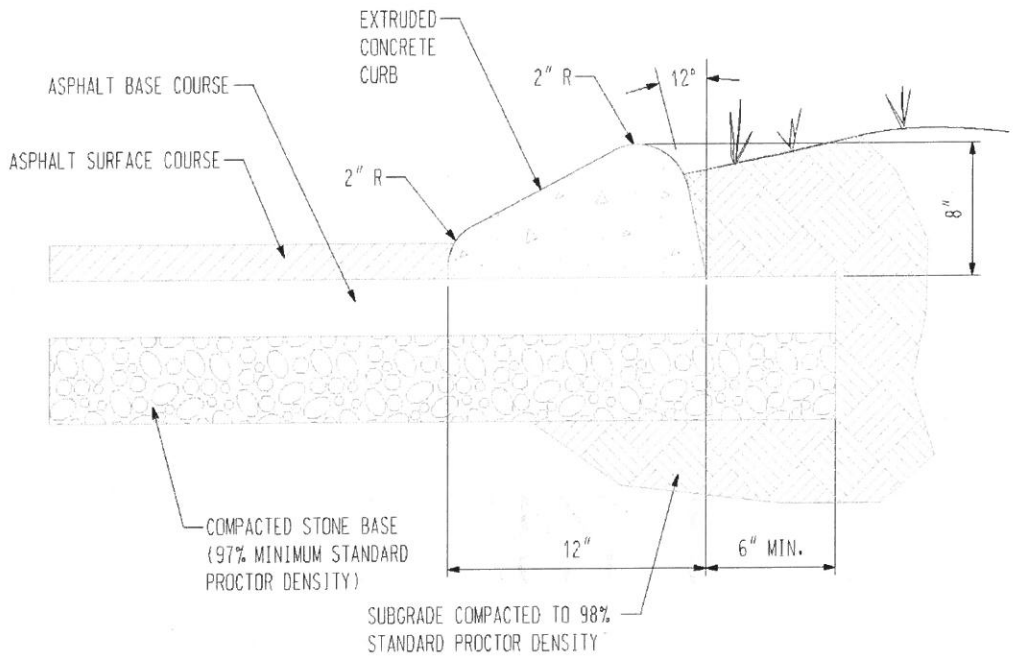
CONTROL JOINT DETAIL

CONCRETE SIDEWALK

REVISION:

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DATE:



NOTES:

1. CONTRACTION JOINTS SHALL BE $\frac{1}{2}$ " WIDE AND FULL DEPTH. JOINTS SHALL BE PLACED AT A MAXIMUM OF 50 FEET LONGITUDINAL INTERVALS AND AT ALL ABUTTING STRUCTURES, DRIVEWAYS, AND TANGENT POINTS OF RADIUS RETURNS.
2. TOOLED CURB CONTROL JOINTS SHALL BE PLACED $\frac{1}{4}$ " WIDE, 1" DEEP, AND 5 FEET ON CENTER
3. ALL CONCRETE TO COMPLY WITH ACI 318 WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT THE 28 DAYS TEST.
4. CONCRETE TO BE AIR-ENTRAINED WITH AN AIR CONTENT OF 4-6%.
5. JOINTS TO BE FILLED WITH BITUMINOUS EXPANSION MATERIAL.
6. UTILIZE JOHN BOUCHARD AND SONS CASTING NUMBER 3103.

8" EXTRUDED CONCRETE CURB

REVISION:

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DATE: