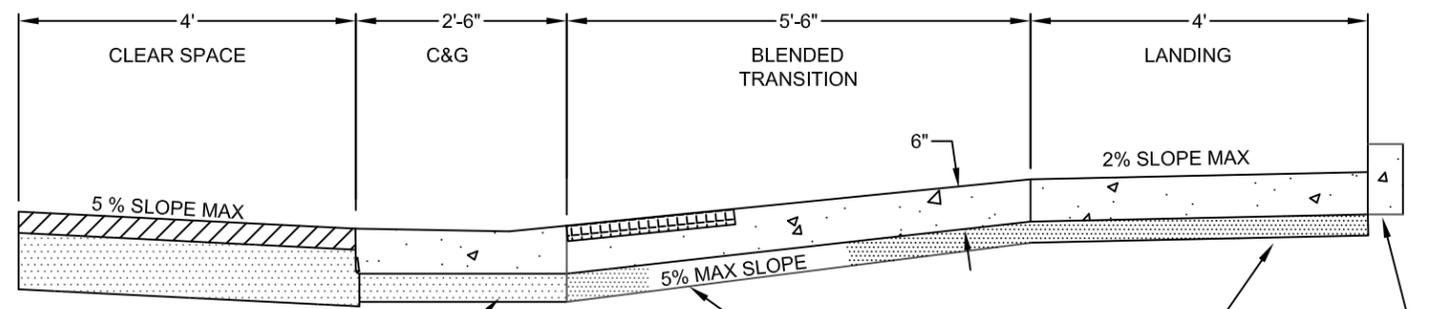
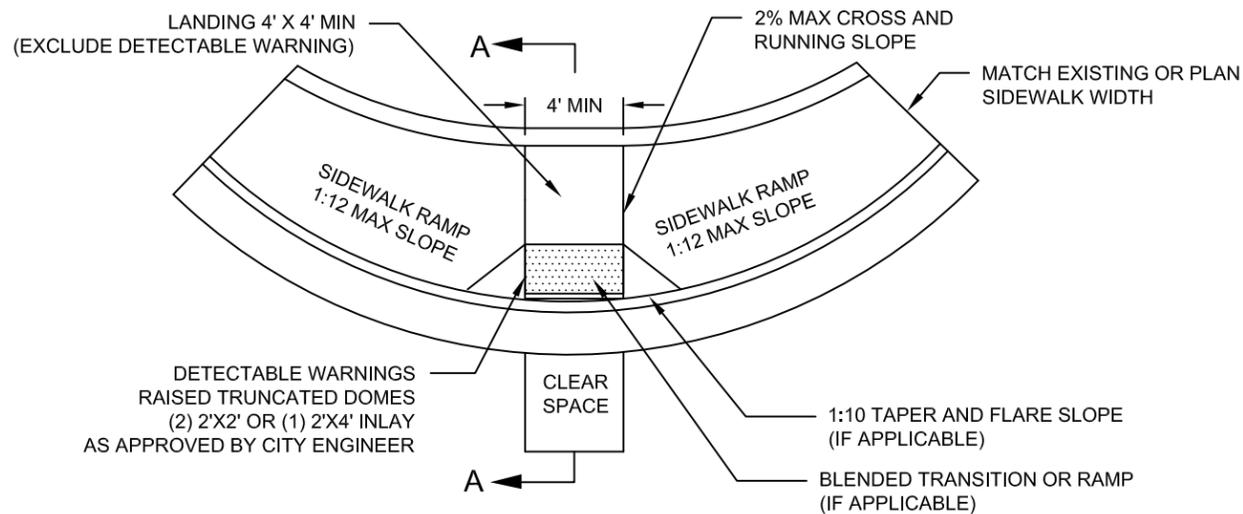


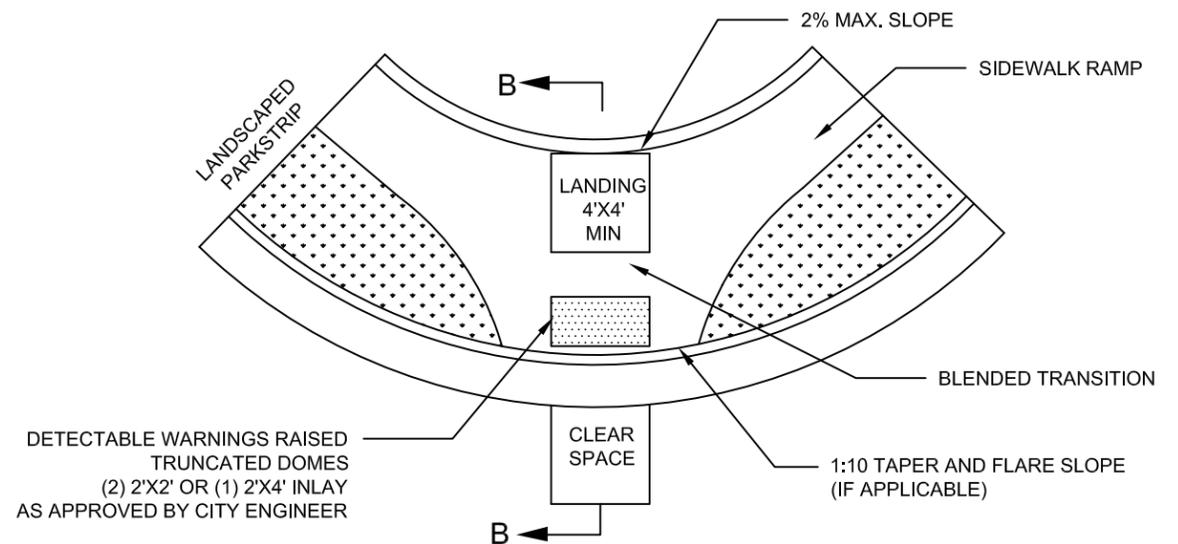
SECTION A-A
CROSS SECTION ADA ACCESS WITHOUT
A PARK STRIP



SECTION B-B
CROSS SECTION ADA ACCESS WITH A
PARK STRIP



ADA ACCESS RAMP WITHOUT A PARK STRIP



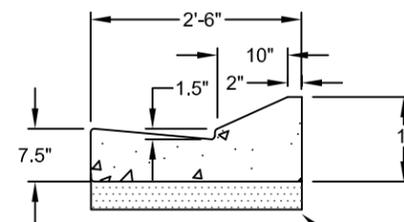
ADA ACCESS RAMP WITH A PARK STRIP

GENERAL NOTES

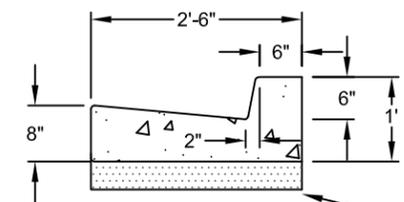
- ALL CURB, GUTTER, SIDEWALK AND DRIVE APPROACHES SHALL BE DESIGNED AND STAKED BY A LICENSED ENGINEER OR LAND SURVEYOR AND SHALL SUBMIT A PLAN AND PROFILE DRAWING TO THE CITY ENGINEER FOR APPROVAL.
- THE CITY ENGINEER WILL REQUIRE A LAYOUT INSPECTION.
- 24 HR. NOTICE WILL BE REQUIRED FOR ALL CONCRETE INSPECTIONS. THE INSPECTOR MAY INSPECT THE FOLLOWING:
A) DENSITY TESTS D) AIR ENTRAINMENT TESTS
B) GRADE VERIFICATION E) EXPANSION JOINT PLACEMENT
C) SLUMP TESTS F) COMPRESSION CYLINDER TESTS
- CONCRETE
A) CONCRETE SHALL BE CLASS 4000 AS PER APWA SECTION 03 30 04
B) CONCRETE SHALL BE 6.5 BAG MIX
C) SLUMP SHALL BE LESS THAN 4"
D) AIR ENTRAINMENT SHALL BE 6% +/- 1%
- CURB AND GUTTER SHALL BE APWA STANDARD PLAN NO. 205 TYPE A. SIDEWALK SHALL ADHERE TO APWA STANDARD PLAN 231. SIDEWALK SHALL BE 5" THICK FOR ALL SIDEWALK IN RESIDENTIAL AREAS AND 5" IN COMMERCIAL. DRIVE APPROACHES SHALL BE 6" THICK FOR RESIDENTIAL AND 8" FOR COMMERCIAL, OR SPECIFIED BY PROJECT ENGINEER.
- FLARED DRIVE APPROACH SHALL BE APWA STANDARD PLAN NO. 221.
- WATERWAY SHALL BE APWA STANDARD PLAN NO. 211.
- REINFORCEMENT STEEL SHALL MEET REQUIREMENTS OF APWA SECTION 03 20 00.
- SIDEWALK RAMP DETECTABLE WARNINGS SHALL BE RED RAISED TRUNCATED DOMES.
- SIDEWALK RAMP DETECTABLE WARNINGS SHALL BE 2'X4' INLAYS AND SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO INSTALLATION
- CONCRETE PLACED IN COLD WEATHER CONDITIONS WILL BE PLACED IN ACCORDANCE WITH ACI 306R REQUIREMENTS.
- SEE APWA STANDARD PLANS 235 TO 238 FOR ADDITIONAL INSTALLATION DETAILS.
- TYPE D CURB AND GUTTER INSTALLATION MUST BE APPROVED IN WRITING BY THE CITY ENGINEER PRIOR TO INSTALLATION.

MAXIMUM SLOPES

	<u>RUNNING SLOPE</u>	<u>CROSS SLOPE</u>
LANDING	1:48 (2%)	1:48 (2%)
RAMP	1:12 (8.33%)	1:48 (2%)
CLEAR SPACE	1:20 (5%)	1:48 (2%)
BLENDED TRANSITION	1:20 (5%)	1:48 (2%)



**CURB AND GUTTER
TYPE D**



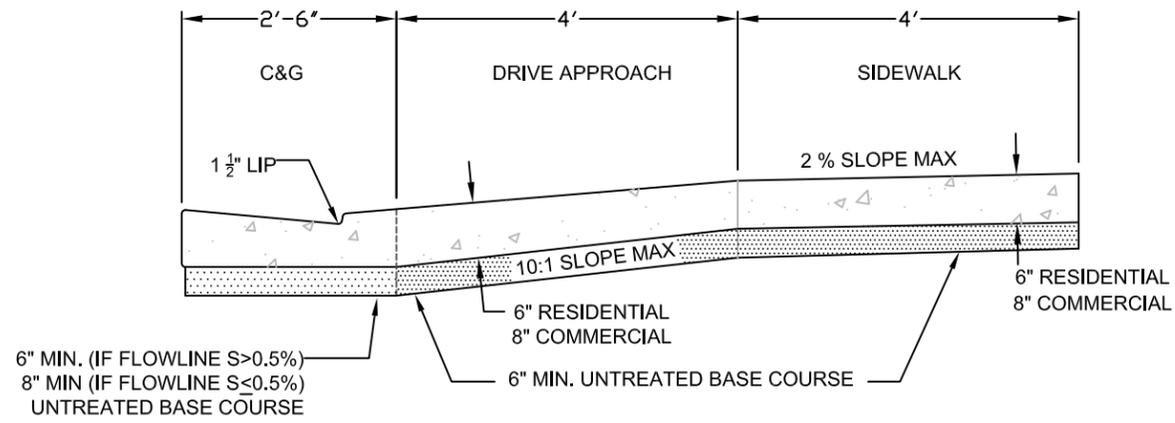
**CURB AND GUTTER
TYPE A**

DATE	REVISIONS	MADE BY
4/10	GENERAL REVISIONS	MSP
4/15	GENERAL REVISIONS	CTZ

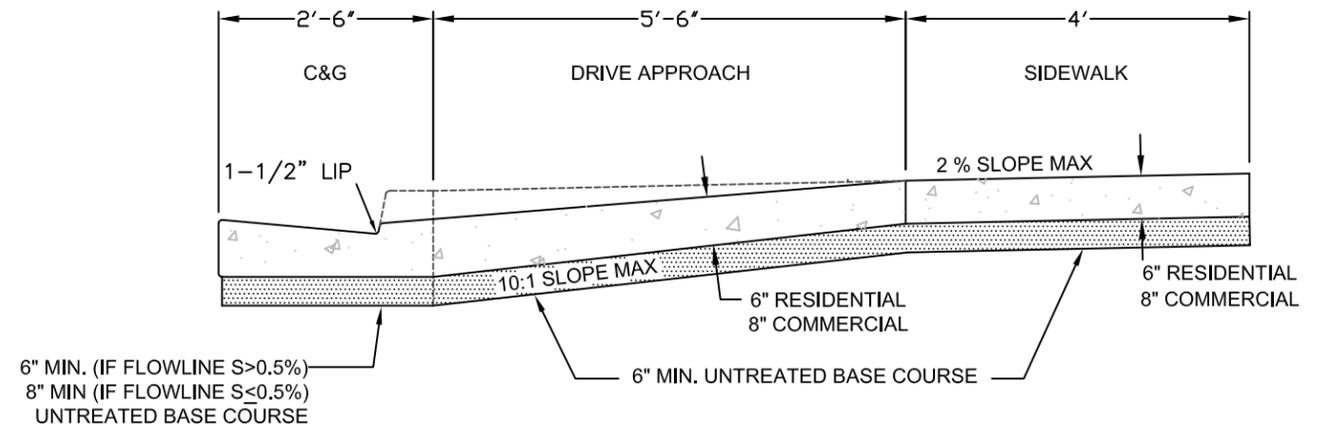
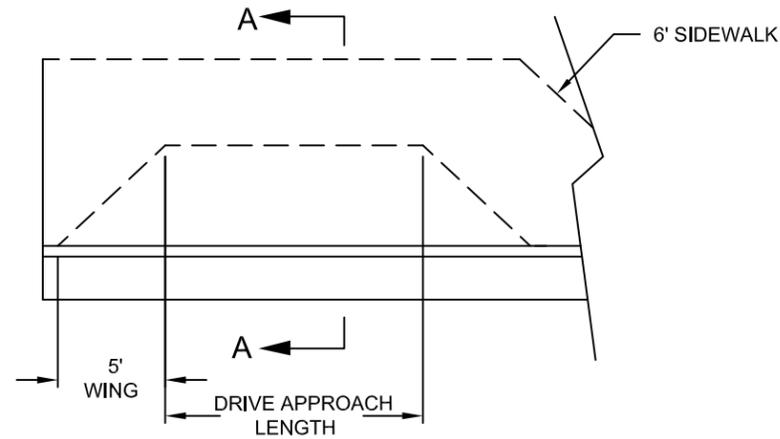


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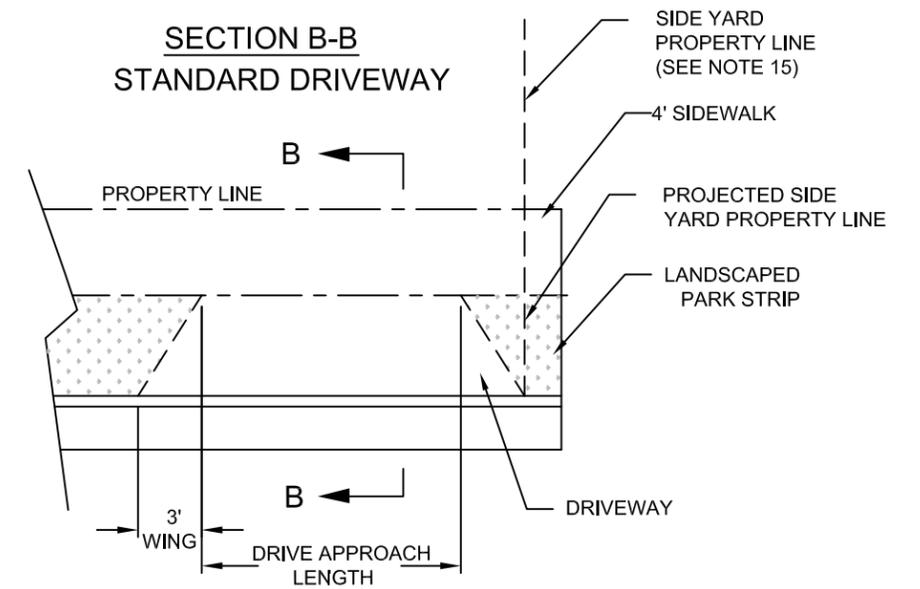
MURRAY CITY
ADA ACCESS SIDEWALK RAMP
DETAILS C - 1



SECTION A-A
6' SIDEWALK TRANSITION AT DRIVEWAY



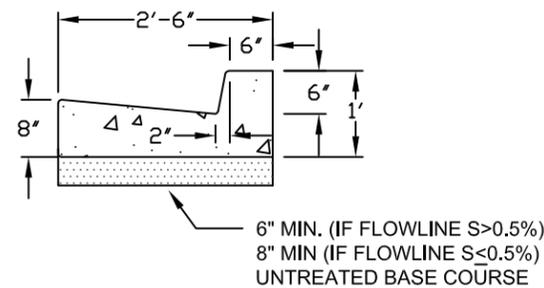
SECTION B-B
STANDARD DRIVEWAY



DRIVE APPROACH LENGTHS

RESIDENTIAL	12' MIN. - 30' MAX.
COMMERCIAL	25' MIN. - 50' MAX.

CURB AND GUTTER
TYPE A



GENERAL NOTES

- ALL CURB, GUTTER, SIDEWALK AND DRIVE APPROACHES SHALL BE DESIGNED AND STAKED BY A LICENSED ENGINEER OR LAND SURVEYOR AND SHALL SUBMIT A PLAN AND PROFILE DRAWING TO THE CITY ENGINEER FOR APPROVAL.
- THE CITY ENGINEER WILL REQUIRE A LAYOUT INSPECTION.
- 24 HR. NOTICE WILL BE REQUIRED FOR ALL CONCRETE INSPECTIONS. THE INSPECTOR MAY INSPECT THE FOLLOWING:

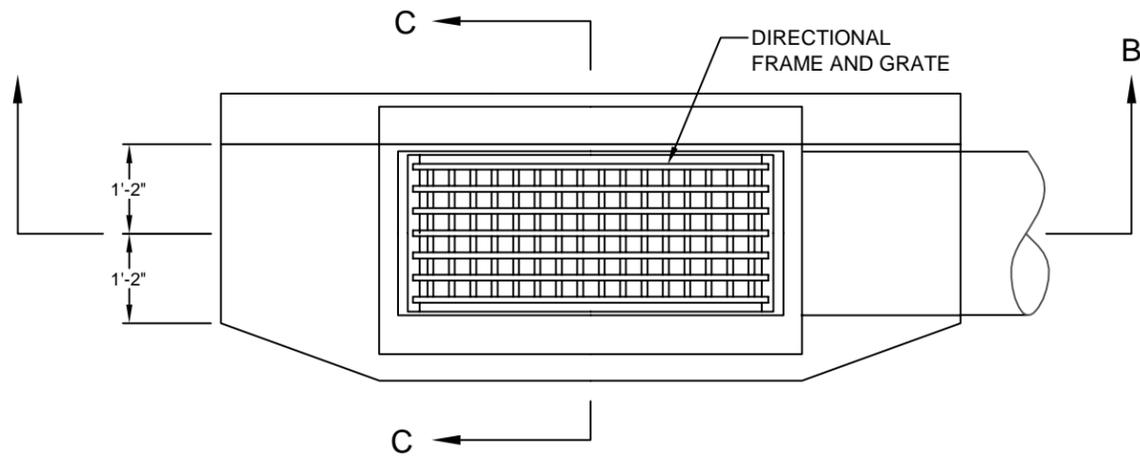
A) DENSITY TESTS	D) AIR ENTRAINMENT TESTS
B) GRADE VERIFICATION	E) EXPANSION JOINT PLACEMENT
C) SLUMP TESTS	F) COMPRESSION CYLINDER TESTS
- CONCRETE
 - CONCRETE SHALL BE CLASS 4000 AS PER APWA SECTION 03 30 04
 - CONCRETE SHALL BE 6.5 BAG MIX
 - SLUMP SHALL BE LESS THAN 4"
 - AIR ENTRAINMENT SHALL BE 6% +/- 1%
- CURB AND GUTTER SHALL BE APWA STANDARD PLAN NO. 205 TYPE A.
- SIDEWALK SHALL ADHERE TO APWA STANDARD PLAN 231. SIDEWALK SHALL BE 5" THICK FOR ALL SIDEWALK IN RESIDENTIAL AREAS AND 5" IN COMMERCIAL. DRIVE APPROACHES SHALL BE 6" THICK FOR RESIDENTIAL AND 8" FOR COMMERCIAL, OR SPECIFIED BY PROJECT ENGINEER.
- FLARED DRIVE APPROACH SHALL BE APWA STANDARD PLAN NO. 221.
- WATERWAY SHALL BE APWA STANDARD PLAN NO. 211.
- REINFORCEMENT STEEL SHALL MEET REQUIREMENTS OF APWA SECTION 03 20 00.
- SIDEWALK RAMP DETECTABLE WARNINGS SHALL BE RED RAISED TRUNCATED DOMES.
- SIDEWALK RAMP DETECTABLE WARNINGS SHALL BE 2'X4' INLAYS AND SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO INSTALLATION.
- DRIVE APPROACH SHALL NOT EXTEND BEYOND THE PROJECTED SIDE YARD PROPERTY LINE.

DATE	REVISIONS	MADE BY
5/30/01	GENERAL REVISIONS	JTS
4/5/04	RAMP UPDATES	JTS
12/28/04	GENERAL REVISIONS	JKS
4/10	GENERAL REVISIONS	MSP
4/15	GENERAL REVISIONS	CTZ

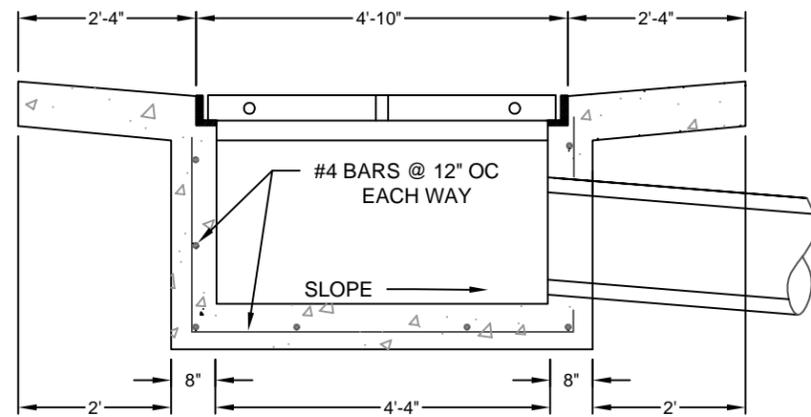


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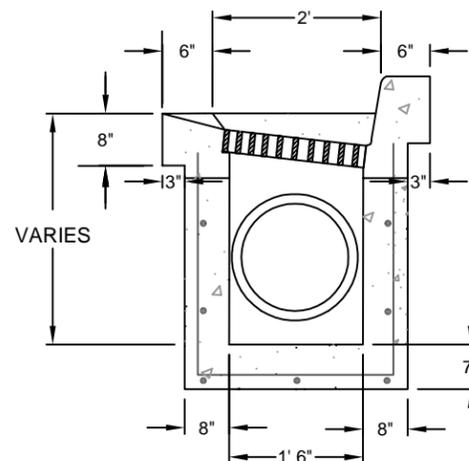
MURRAY CITY
SIDEWALK DRIVE APPROACH
SIDEWALK RAMP
DETAILS C - 2



PLAN

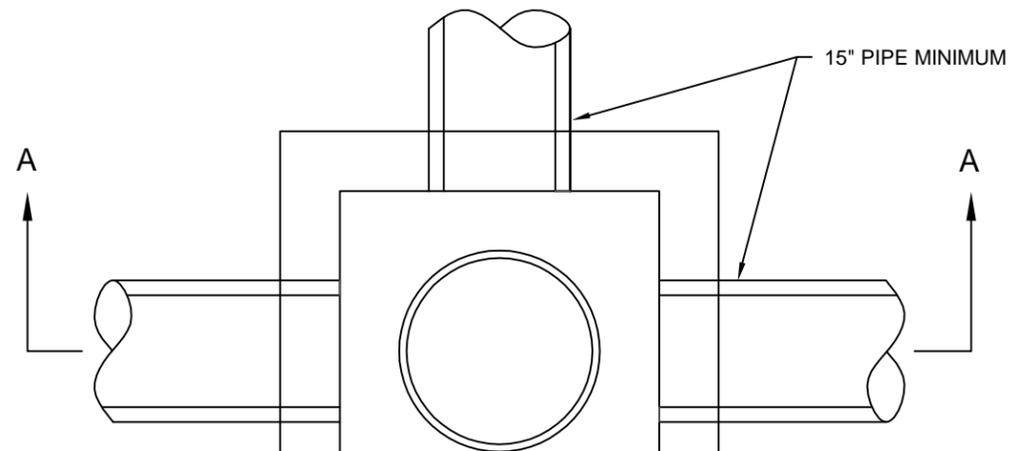


SECTION B - B

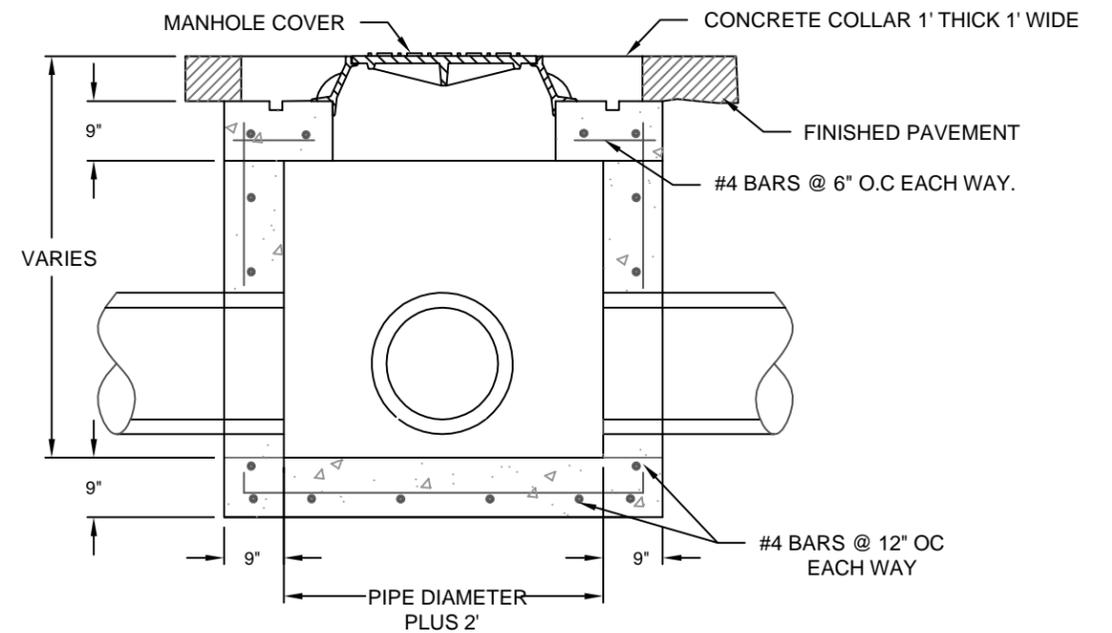


SECTION C - C

CATCH BASIN



PLAN



SECTION A - A

CLEANOUT BOX

GENERAL NOTES

1. CONCRETE SHALL BE CLASS 4000 AS PER APWA SECTION 03 30 04.
2. REINFORCEMENT SHALL BE ASTM A 615, GRADE 60, DEFORMED BARS AS PER APWA SECTION 03 20 00.
3. BACKFILL WITH GRADE 1 UNTREATED BASE COURSE AS PER APWA 32 11 23 2.1.
4. MANHOLE COVER SHALL BE APWA STANDARD PLAN NO. 302.
5. GRADE RINGS SHALL BE APWA STANDARD PLAN NO. 361.
6. CONCRETE COLLAR SHALL BE APWA STANDARD PLAN NO. 362.
7. DIRECTIONAL GRATE AND FRAME SHALL BE APWA STANDARD PLAN NO. 309 OR 310.
8. EXTEND BOX 6" BELOW PIPE INVERT FOR SEDIMENT CONTROL.

DATE	REVISIONS	MADE BY
5/30/01	GENERAL REVISIONS	JTS
4/5/04	RAMP UPDATES	JTS
12/28/04	GENERAL REVISIONS	JKS
4/10	GENERAL REVISIONS	MSP

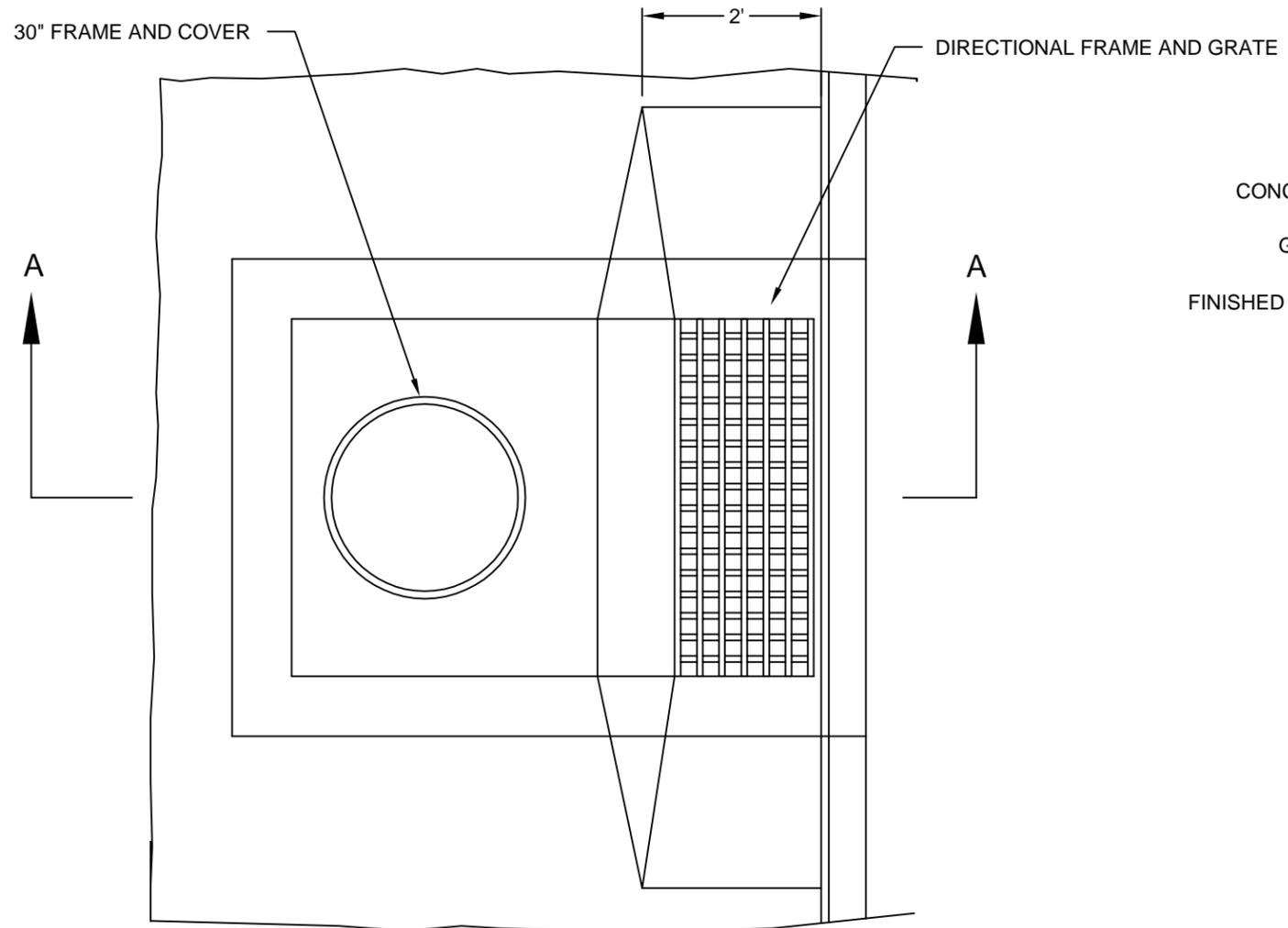


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801 270-2400

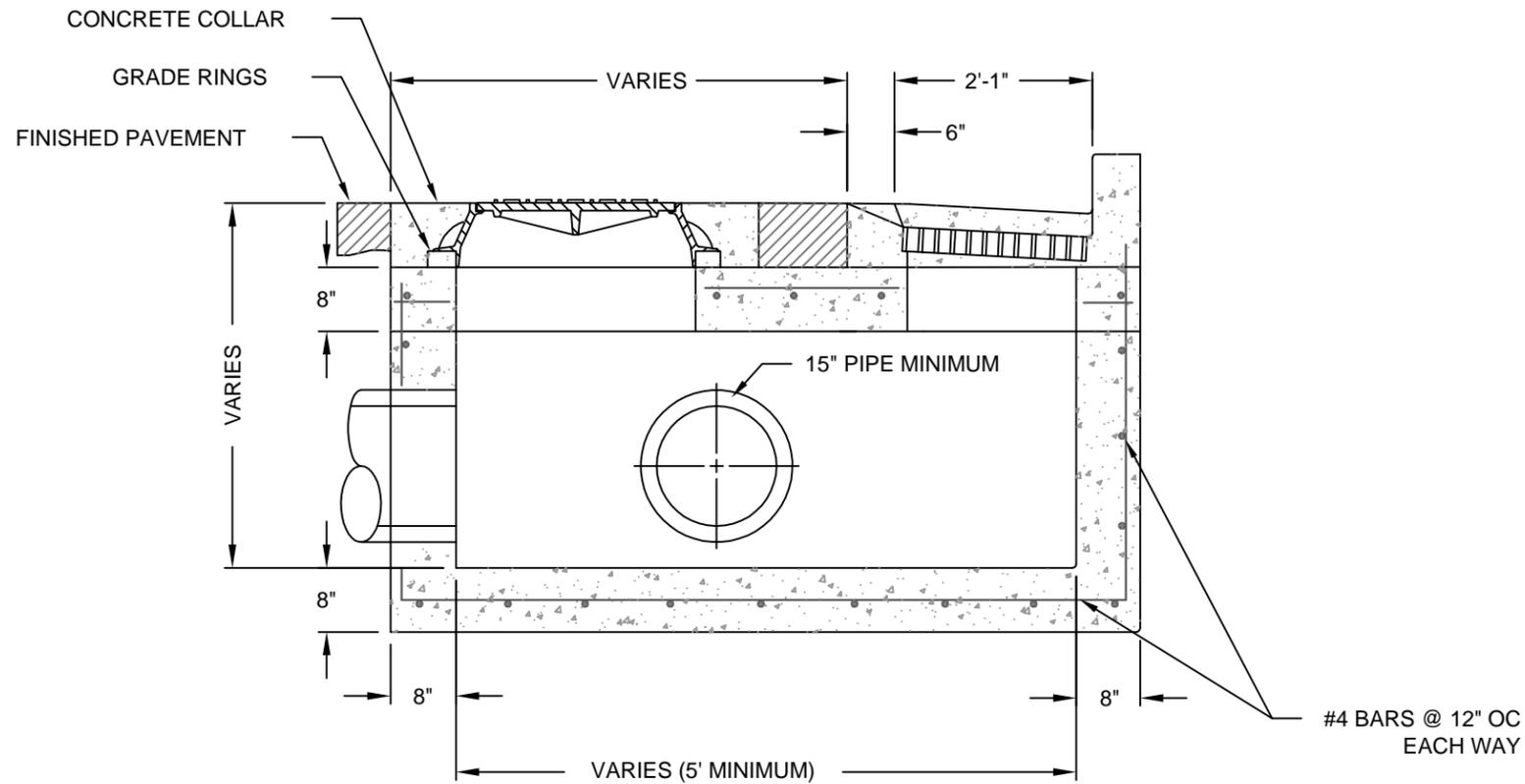
MURRAY CITY

CATCH BASIN AND
CLEANOUT

DETAILS C - 3



PLAN



SECTION A - A

COMBINATION INLET/CLEANOUT BOX

GENERAL NOTES

1. CONCRETE SHALL BE CLASS 4000 AS PER APWA SECTION 03 30 04.
2. REINFORCEMENT SHALL BE ASTM A 615, GRADE 60, DEFORMED BARS AS PER APWA SECTION 03 20 00.
3. BACKFILL WITH GRADE 1 UNTREATED BASE COURSE AS PER APWA 32 11 23 2.1.
4. MANHOLE COVER SHALL BE APWA STANDARD PLAN NO. 302.
5. GRADE RINGS SHALL BE APWA STANDARD PLAN NO. 361
6. CONCRETE COLLAR SHALL BE APWA STANDARD PLAN NO. 362
7. DIRECTIONAL GRATE AND FRAME SHALL BE APWA STANDARD PLAN NO. 309 OR 310.
8. EXTEND BOX 6" BELOW PIPE INVERT FOR SEDIMENT CONTROL.

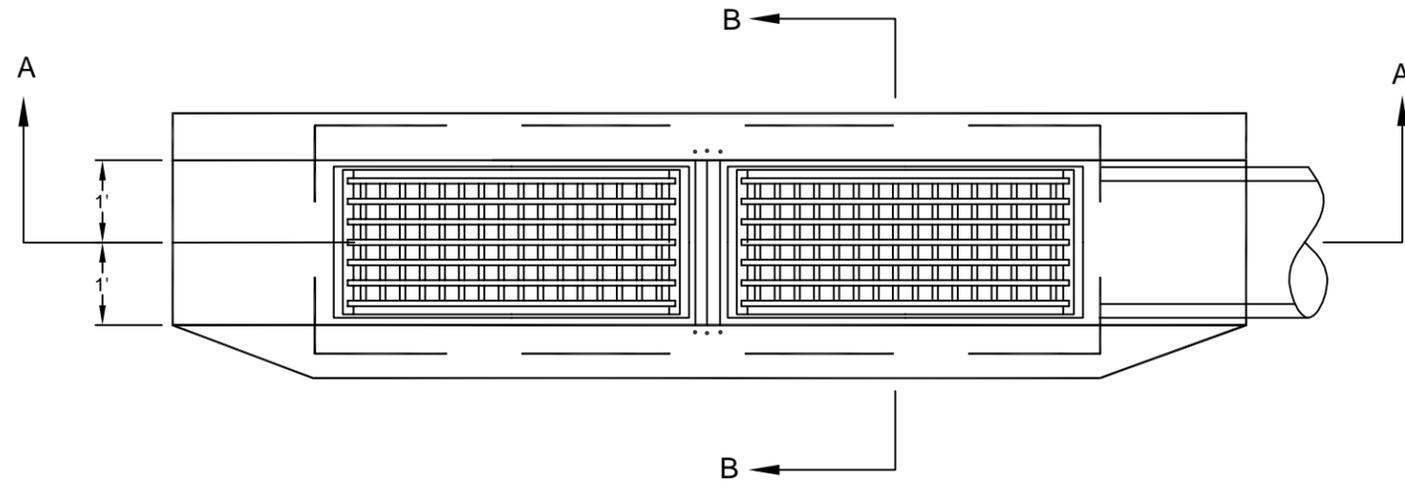
DATE	REVISIONS	MADE BY
5/30/01	GENERAL REVISIONS	JTS
4/5/04	TITLE BLOCK REVISIONS	JTS
6/30/10	GENERAL REVISIONS	MSP



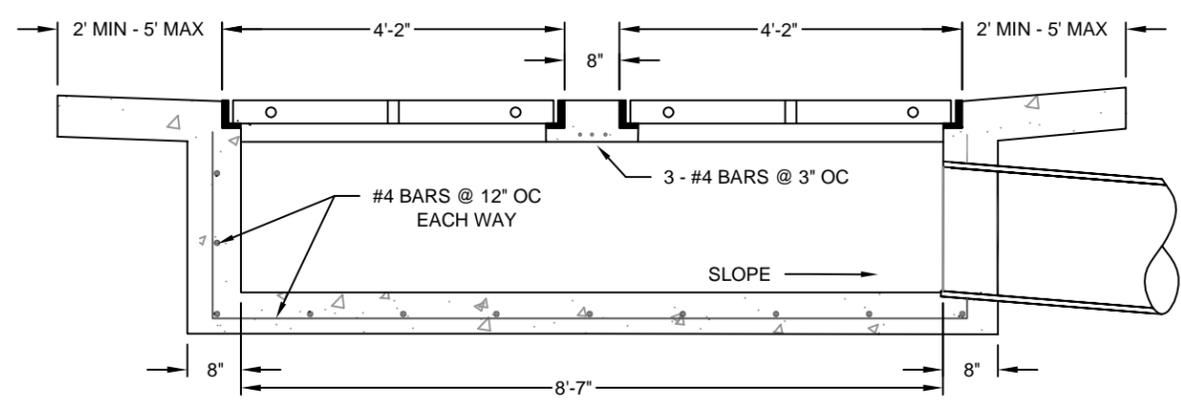
MURRAY CITY CORPORATION
ENGINEERING DEPARTMENT
 4646 SO. 500 West
 MURRAY, UT. 84123
 270-2400

MURRAY CITY
COMBINATION
INLET/CLEANOUT BOX

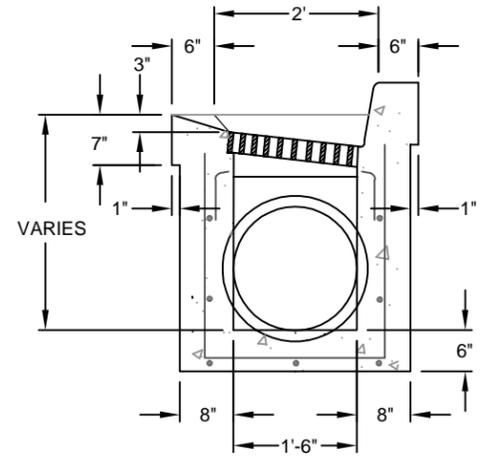
C-4



PLAN



SECTION A - A



SECTION B - B

DOUBLE INLET CATCH BASIN

GENERAL NOTES

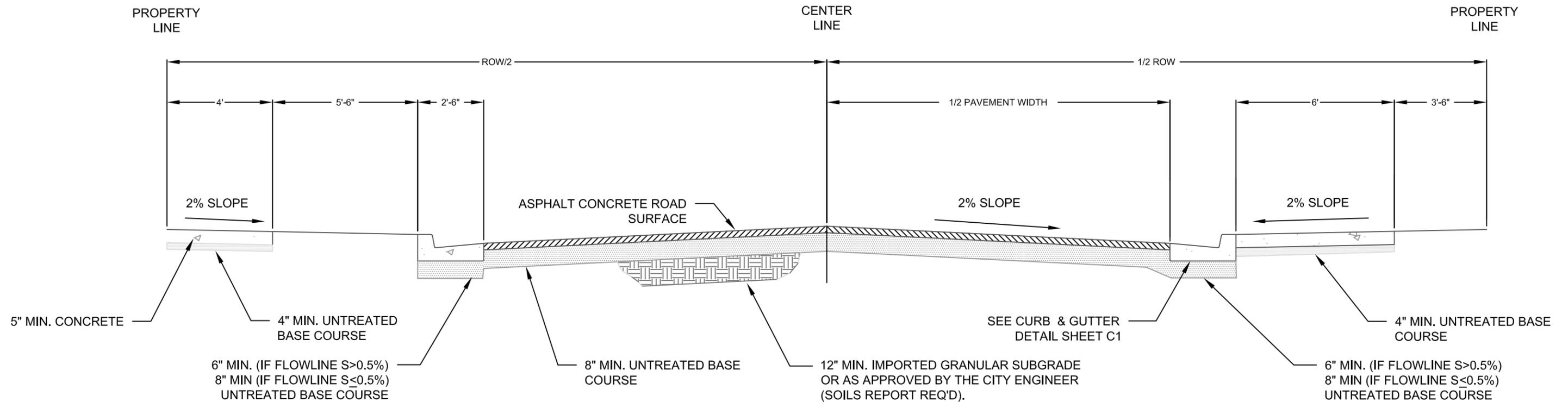
1. CONCRETE SHALL BE CLASS 4000 AS PER APWA SECTION 03 30 04.
2. REINFORCEMENT SHALL BE ASTM A 615, GRADE 60, DEFORMED BARS AS PER APWA SECTION 03 20 00.
3. BACKFILL WITH GRADE 1 UNTREATED BASE COURSE AS PER APWA 32 11 23 2.1.
4. DIRECTIONAL GRATE AND FRAME SHALL BE APWA STANDARD PLAN NO. 309 OR 310.
5. EXTEND BOX 6" BELOW PIPE INVERT FOR SEDIMENT CONTROL.

DATE	REVISIONS	MADE BY
4/10	GENERAL REVISIONS	MSP
1/13	GENERAL REVISIONS	MSP



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MURRAY CITY
 DOUBLE INLET CATCH BASIN
 DETAILS C - 4



ROADWAY SECTION ROW*

*SIDEWALK, PARK STRIP AND ROAD WIDTHS VARY IN THE MU, TOD AND MCCD ZONES

ROADWAY SECTION				
CLASSIFICATION	ROW (FT)	PAVEMENT WIDTH (FT)	LANES	PAVEMENT THICKNESS (IN)
ALLEY	25 TO 30	22 TO 25	2	3
RESIDENTIAL	49 TO 50	25 TO 26	2	3
MINOR COLLECTOR	60	35 TO 36	2	4
MAJOR COLLECTOR	66 TO 80	40 TO 60	2 TO 5	5 TO 6
MINOR ARTERIAL	66 TO 80	40 TO 60	3 TO 5	6 TO 7

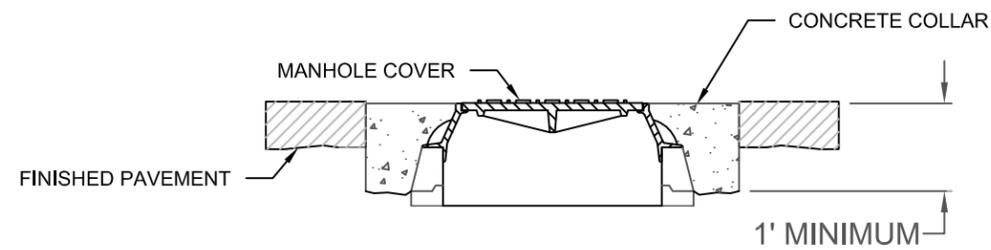
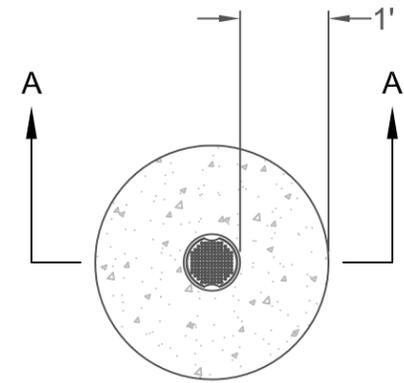
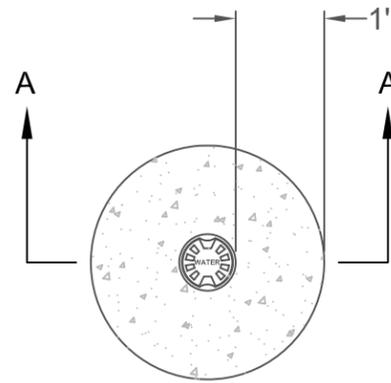
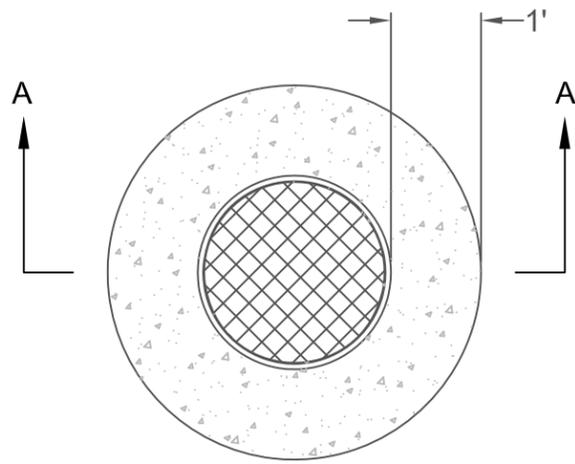
DATE	REVISIONS	MADE BY
4/10	GENERAL REVISIONS	MSP
4/15	GENERAL REVISIONS	CTZ



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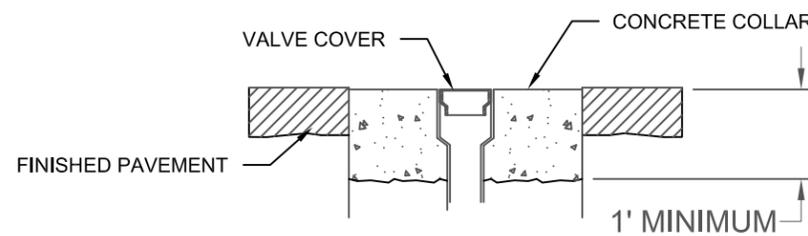
MURRAY CITY

ROADWAY DETAIL
 DETAILS C - 5



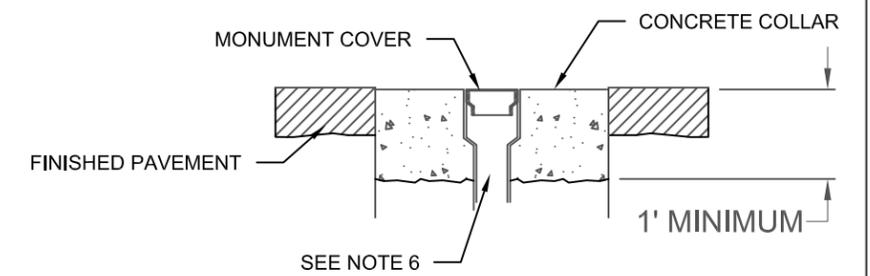
SECTION A-A

MANHOLE COLLAR



SECTION A-A

WATER VALVE COLLAR



SECTION A-A

SURVEY MONUMENT COLLAR

GENERAL NOTES

1. CONCRETE SHALL BE CLASS 4000 AS PER APWA SECTION 03 30 04. U-CART OR HAND MIXED CONCRETE WILL NOT BE ACCEPTED.
2. REINFORCEMENT SHALL BE ASTM A 615, GRADE 60, DEFORMED BARS AS PER APWA SECTION 03 20 00.
3. BACKFILL WITH GRADE 1 UNTREATED BASE COURSE AS PER APWA 32 11 23 2.1.
4. GRADE RINGS SHALL BE APWA STANDARD PLAN NO. 361
5. CONCRETE COLLAR SHALL BE APWA STANDARD PLAN NO. 362
6. SEE APWA STANDARD PLANS 273 AND 274 FOR MOUNMENT INSTALLATION DETAILS.
7. SALT LAKE COUNTY SURVEYOR MUST BE CONTACTED (385-468-8240) PRIOR TO MONUMENT INSTALLATION, REMOVAL OR RECONSTRUCTION.

DATE	REVISIONS	MADE BY
6/15/10	GENERAL REVISIONS	MSP
4/06/15	GENERAL REVISIONS	CTZ

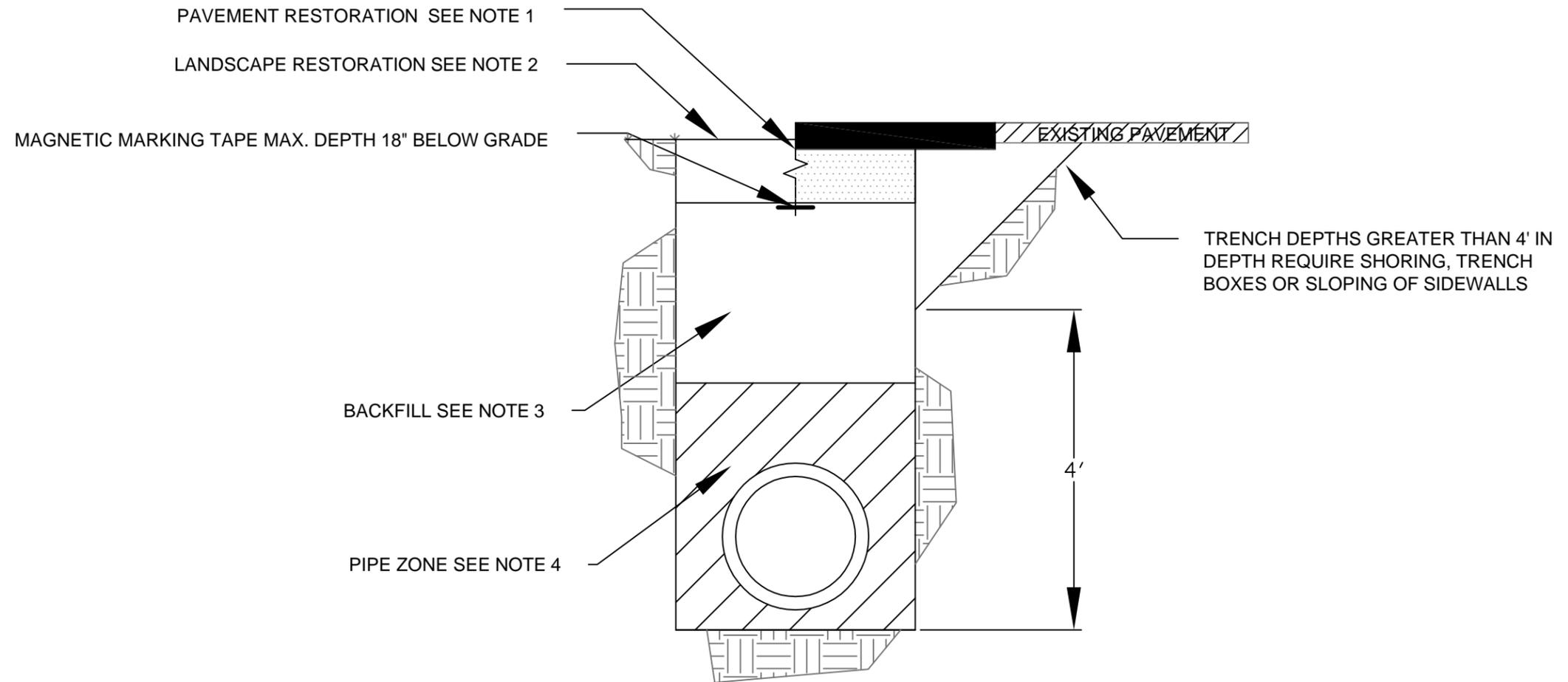


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MURRAY CITY

MANHOLE AND VALVE COLLAR DETAIL

DETAILS C-6



TRENCH BACKFILL

NOTES

1. DO NOT INSTALL ASPHALT OR CONCRETE SURFACING UNTIL TRENCH COMPACTION IS ACCEPTED BY ENGINEER.
SEE PLAN 255 OR 256 OF 2007 APWA STANDARD PLANS.
2. PROVIDE 4" OF COMPACTED TOPSOIL AND MATCH TO EXISTING GRADE. PLACE VEGETATION TO MATCH PRE-EXISTING CONDITIONS.
3. GRANULAR BACKFILL BORROW MATERIAL TO BE A-1 CLASSIFICATION WITH A MAXIMUM PARTICLE SIZE OF 2".
UNCOMPACTED LIFT THICKNESS TO BE A MAXIMUM OF 8" AND PLACED ACCORDING TO 2007 APWA SECTION 31 05 15.
FLOWABLE FILL TO BE LOW STRENGTH (60 PSI) PER APWA SECTION 31 05 15.
4. PIPE ZONE MATERIAL TO BE PLACE ACCORDING TO 2007 APWA STANDARD PLAN 382.

DATE	REVISIONS	MADE BY
2/13	GENERAL REVISIONS	MSP



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MURRAY CITY

TRENCH BACKFILL
DETAIL C - 7



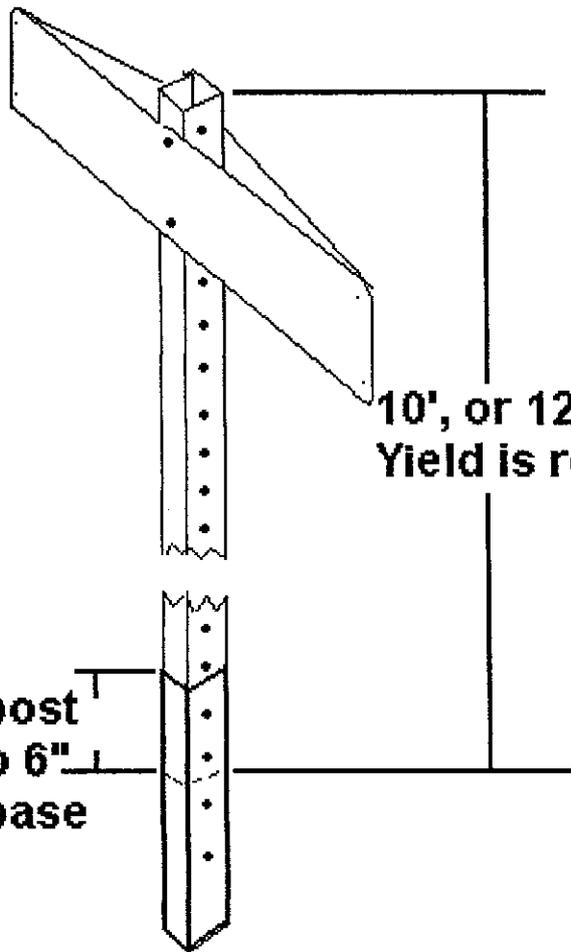
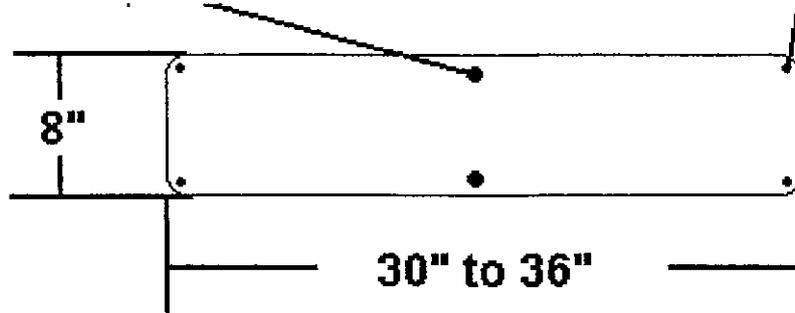
Standard Guide and Street Sign Specifications

1. Background shall be white diamond grade reflective sheeting.
2. Green E.C. film overlay with legend in upper and lowercase lettering.
3. Sign blank shall be high tensile degreased aluminum with aloodine finish.
Thickness shall be 0.080
4. Each sign shall consist of two sign blanks riveted together and mounted as required.
5. Signs on private roads when required by the City Engineer shall meet all specifications of standard signs except overlay with legend shall be blue.
6. All streets with names shall also have coordinate designation.
7. The City Engineer shall be contacted prior to making signs to verify correct street names and coordinates.
8.

30" Stop Sign	Diamond Grade
36" Yield Sign	Diamond Grade
30"x 30" Warning Sign	Diamond Grade
24"x 30" Speed Limit	Diamond Grade
9. If placement standards on this street cannot be met contact the City Engineer
10. If installing signs according to this standard causes the sign to be obstructed or the visibility is impaired in any way modifications may be necessary contact the City Engineer
11. Before installation Blue Stakes shall be notified for utility locations

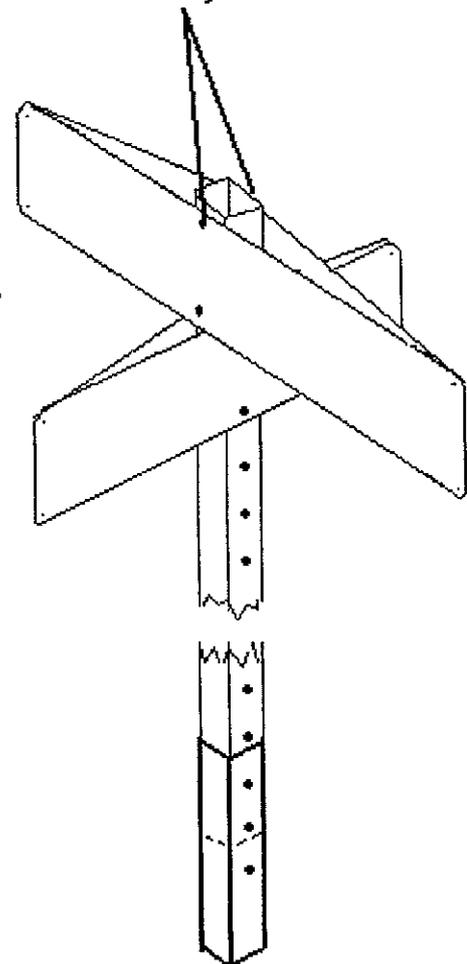
Sign Mounting Detail

3/8" Drive Rivet **5/32 Pop rivet W/ stainless washer**



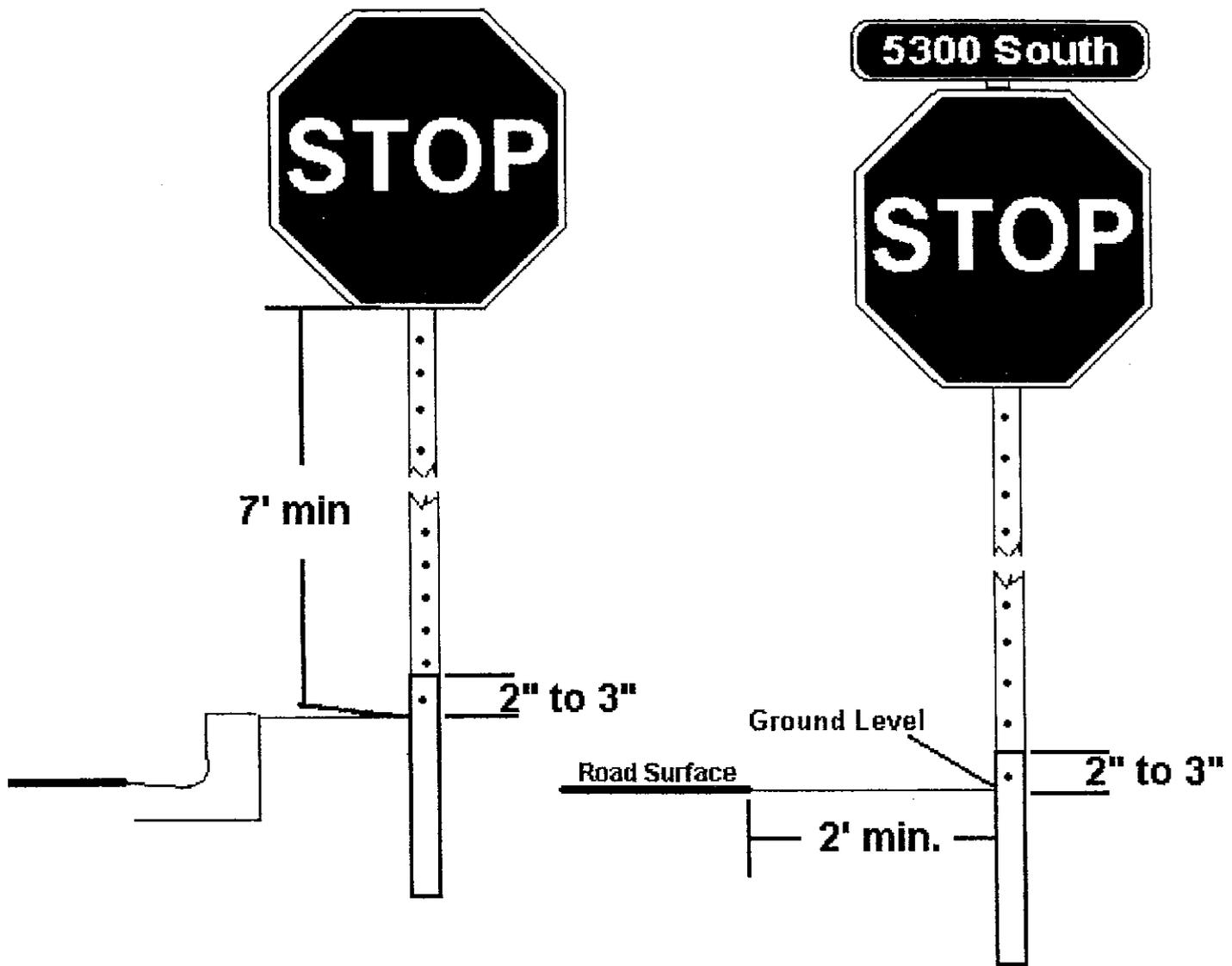
**Set post
4" to 6"
into base**

**Attach markers to post with
3/8" drive rivets, Both sides**



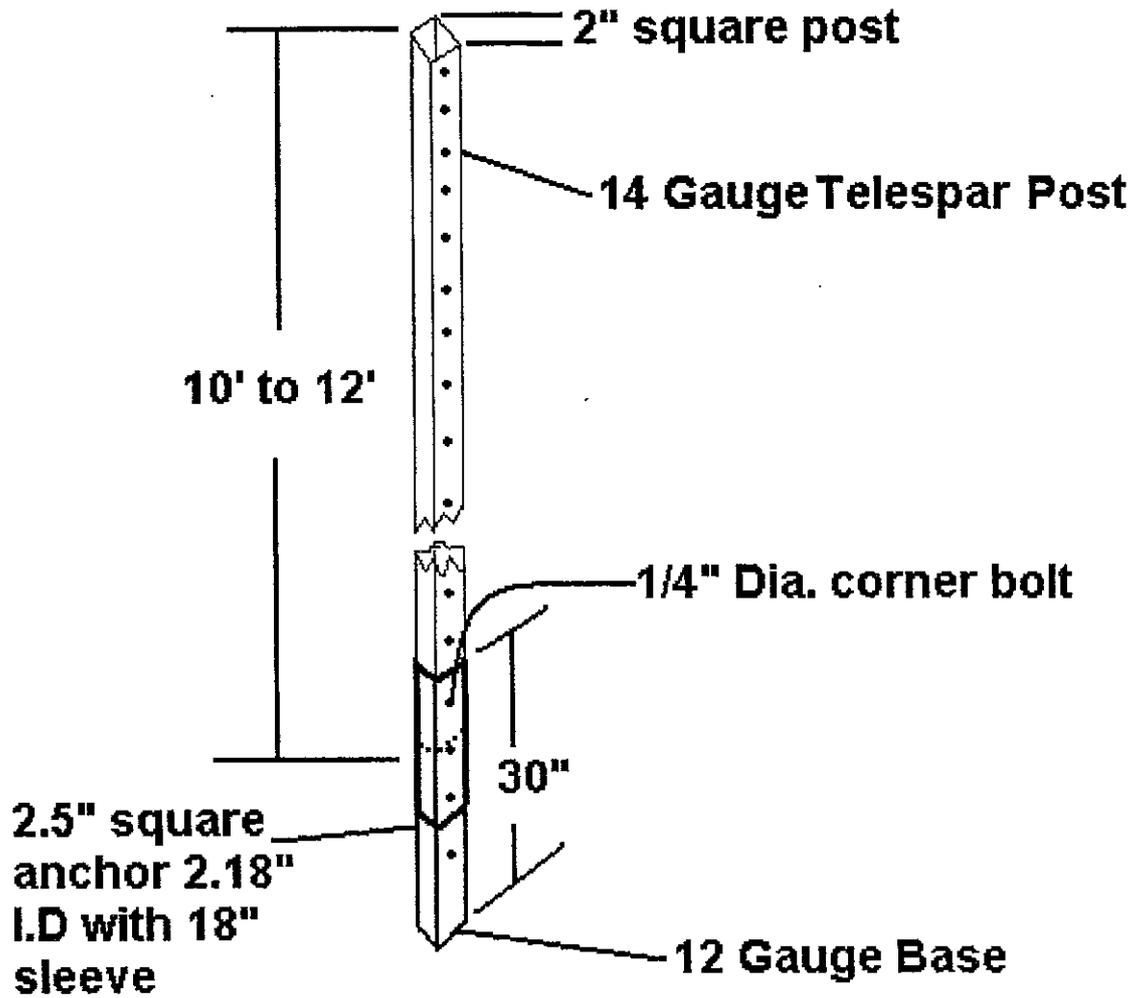
**10', or 12' if Stop or
Yield is required**

Installation Details



- Notes:
- 1- Signs shall be placed in conformance with the M.U.T.C.D.
 - 2- Street name and Stop signs Shall be placed before the sidewalk and shall be required as directed by the city engineer in all city streets.
 - 3- If no park strip, Sign shall be placed to provide adequate Clearance.

Post & Base Details



*All post components shall be galvanized

6"
5900 South

.38"

Blue Stone Cir

4"

6"
Betty Gene
Dr
6480 S

3.75"

2.5"