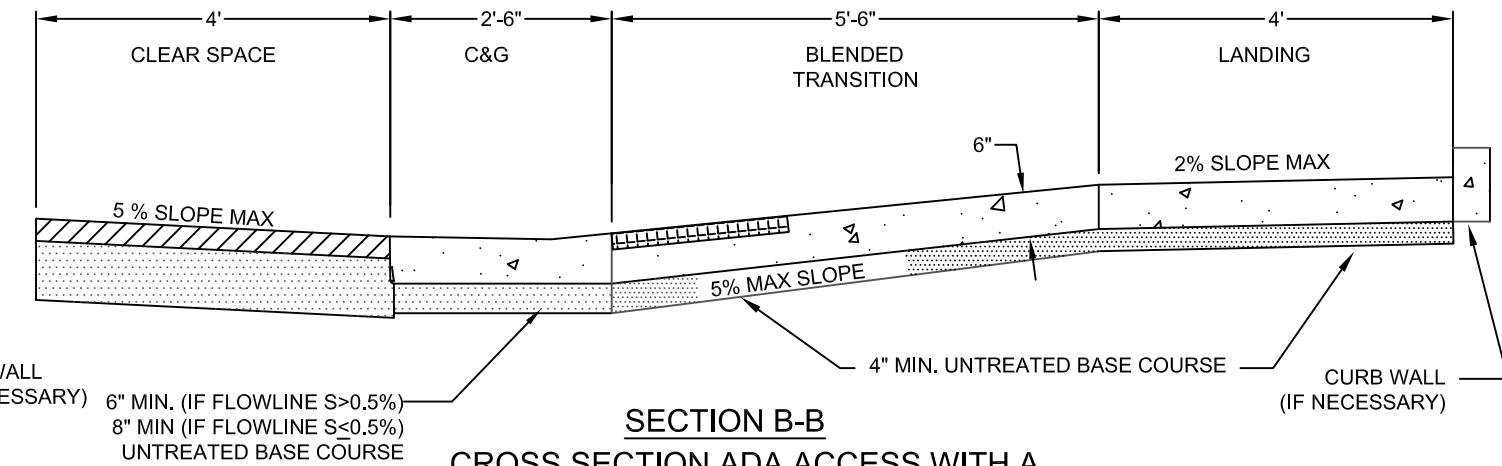
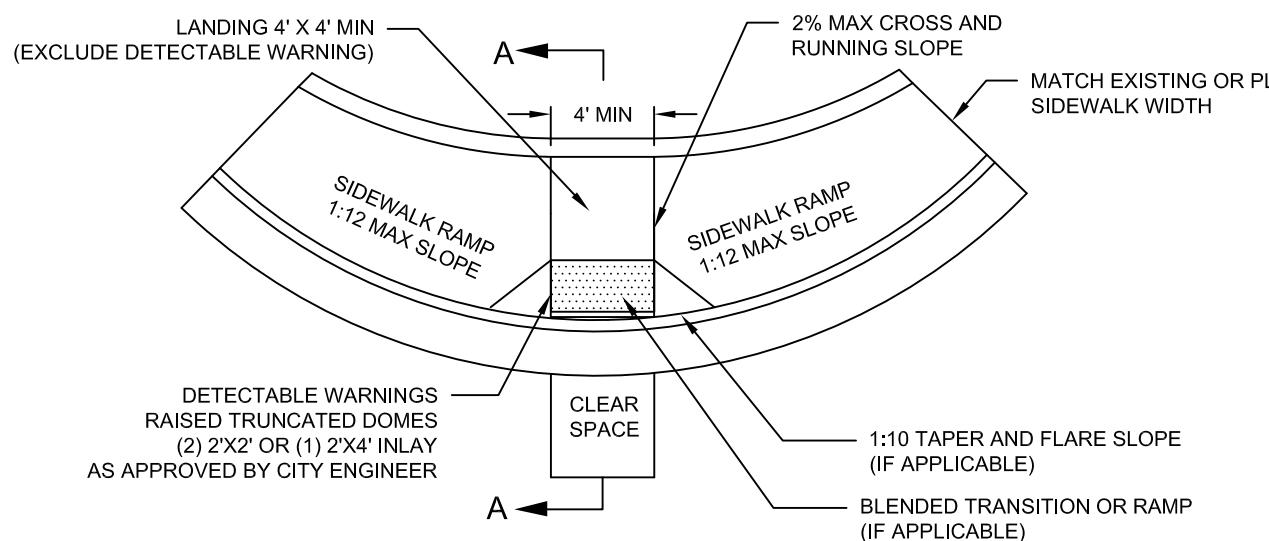


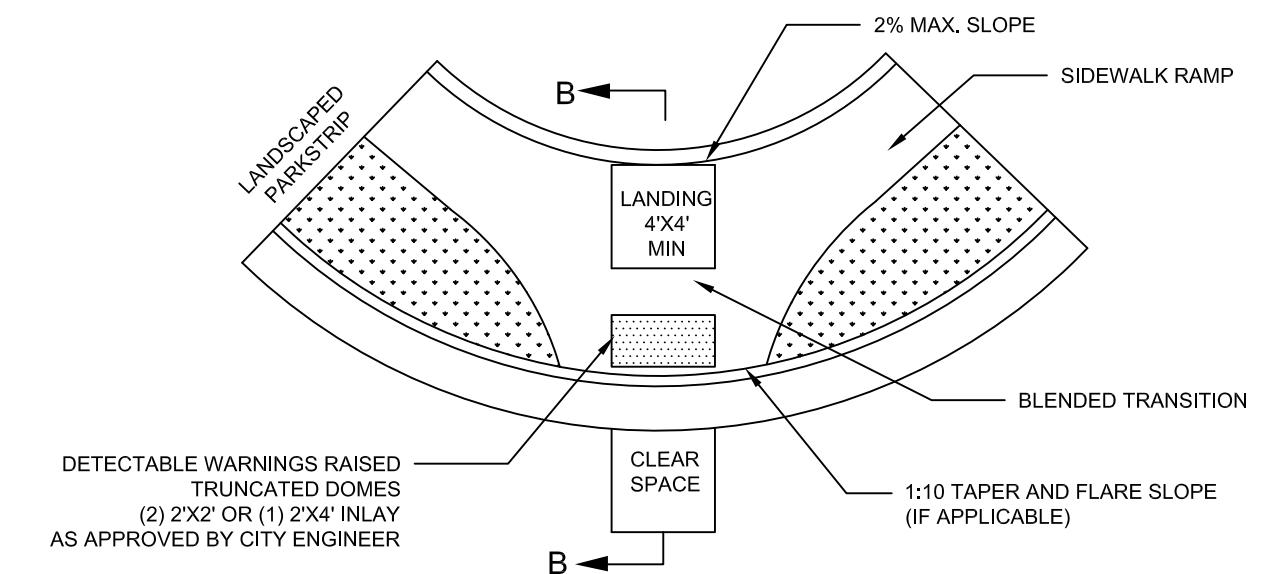
SECTION A-A
CROSS SECTION ADA ACCESS WITHOUT
A PARK STRIP



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
 - B) GRADE VERIFICATION
 - C) SLUMP TESTS
 - D) AIR ENTRAINMENT TESTS
 - E) EXPANSION JOINT PLACEMENT
 - 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

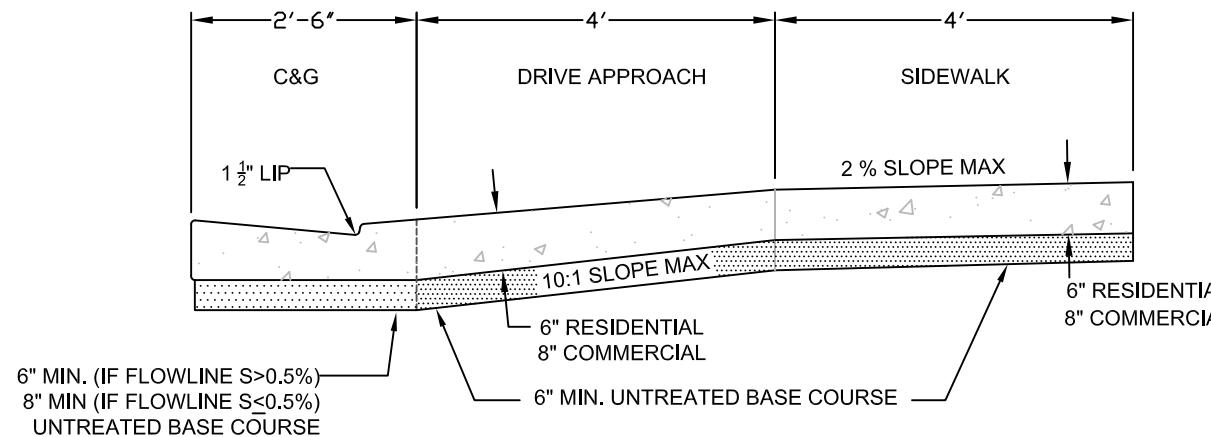
	RUNNING SLOPE	CROSS SLOPE
LANDING	1:48 (2%)	1:48 (2%)
RAMP	1:12 (8.33%)	1:48 (2%)
CLEAR SPACE	1:20 (5%)	1:48 (2%)
BLENDED TRANSITION	1:20 (5%)	1:48 (2%)

DATE	REVISIONS	MADE BY
4/10	GENERAL REVISIONS	MSP
4/15	GENERAL REVISIONS	CTZ
4/19	GENERAL REVISIONS	CTZ

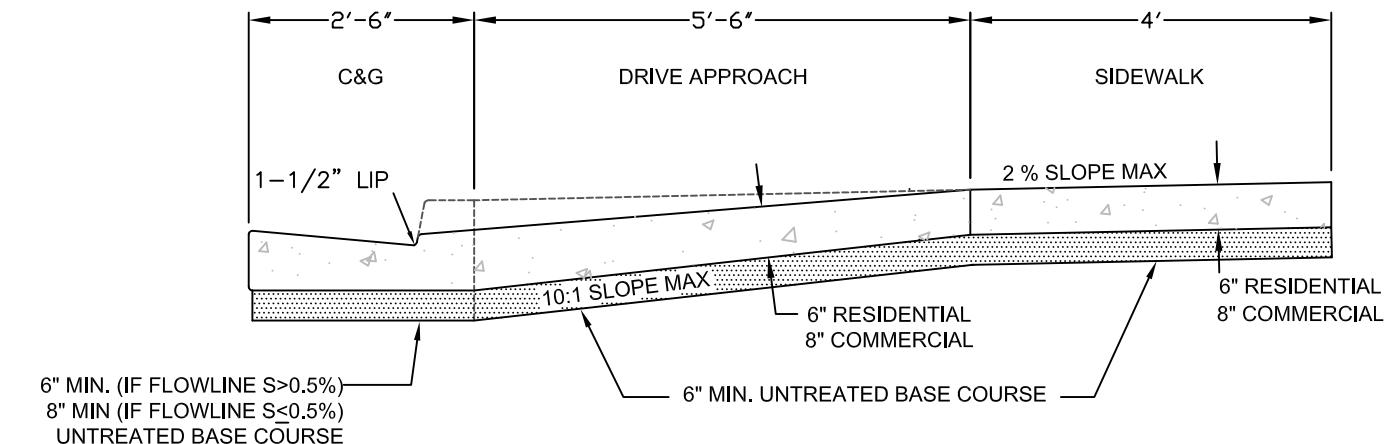
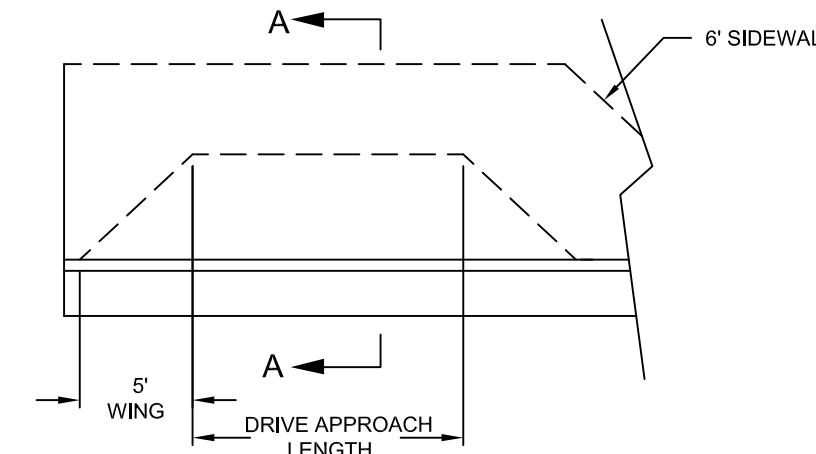


MURRAY CITY CORPORATION
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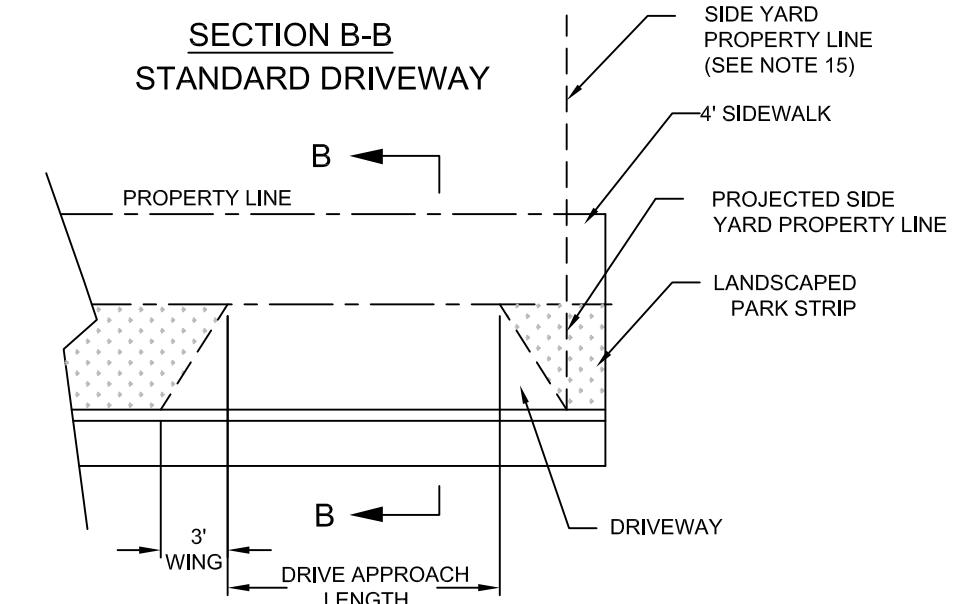
MURRAY CITY
ADA ACCESS SIDEWALK RAMP
DETAILS C - 1



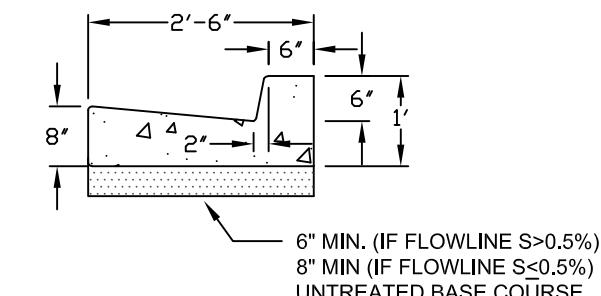
SECTION A-A
6' SIDEWALK TRANSITION AT DRIVEWAY



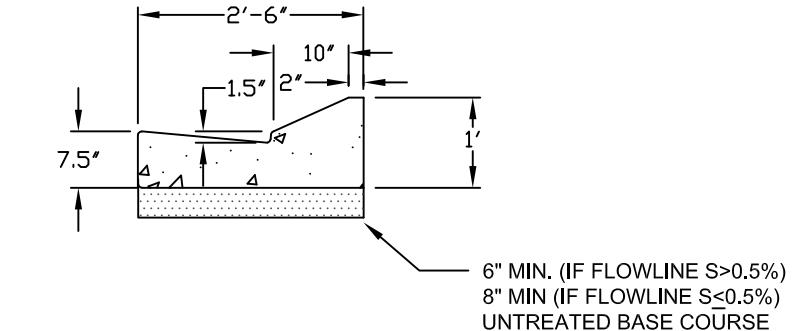
SECTION B-B
STANDARD DRIVEWAY



CURB AND GUTTER
TYPE A



CURB AND GUTTER
TYPE D



- 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
 - B) GRADE VERIFICATION
 - C) SLUMP TESTS
 - D) AIR ENTRAINMENT TESTS
 - E) EXPANSION JOINT PLACEMENT
 - 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.

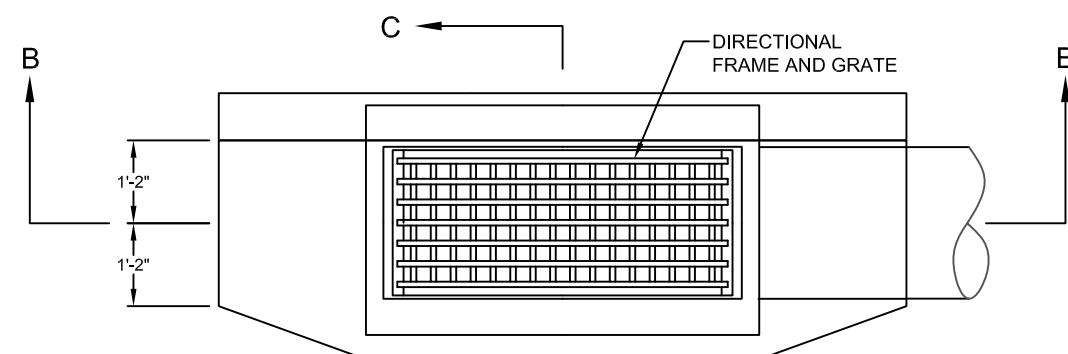
- SIDEWALK SHALL ADHERE TO APWA STANDARD PLAN 231. SIDEWALK SHALL BE 5" THICK FOR ALL SIDEWALK IN RESIDENTIAL AREAS AND 5" IN COMMERCIAL. DRIVE APPROACHES SHALL BE 6" THICK FOR RESIDENTIAL AND 8" FOR COMMERCIAL, OR SPECIFIED BY PROJECT ENGINEER.
- FLARED DRIVE APPROACH SHALL BE APWA STANDARD PLAN NO. 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.
- 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
4/19	GENERAL REVISIONS	CTZ

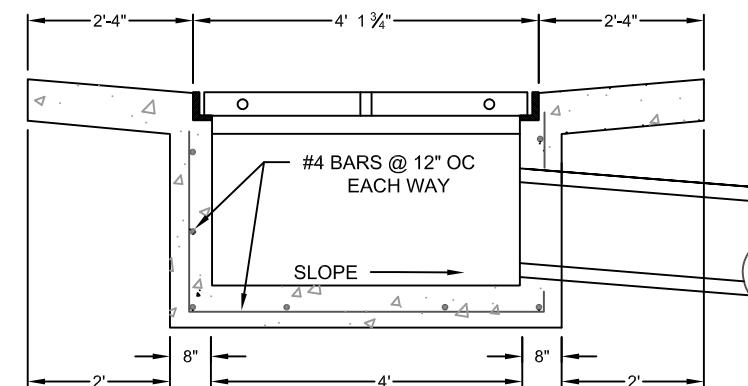


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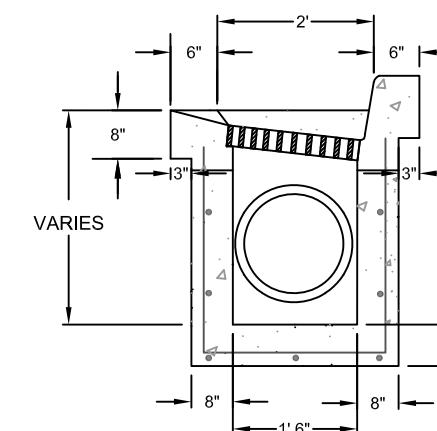
MURRAY CITY
SIDEWALK DRIVE APPROACH
SIDEWALK RAMP
DETAILS C - 2



PLAN



SECTION B - B

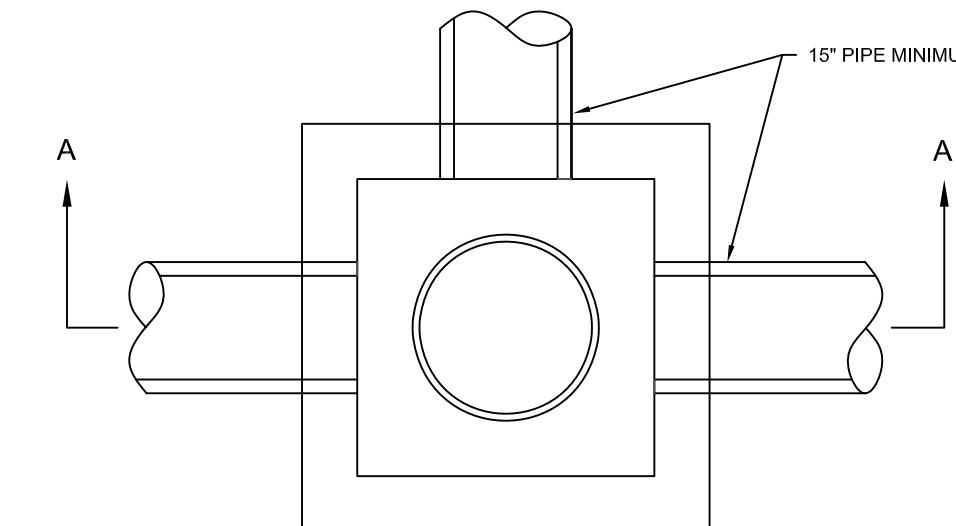


SECTION C - C

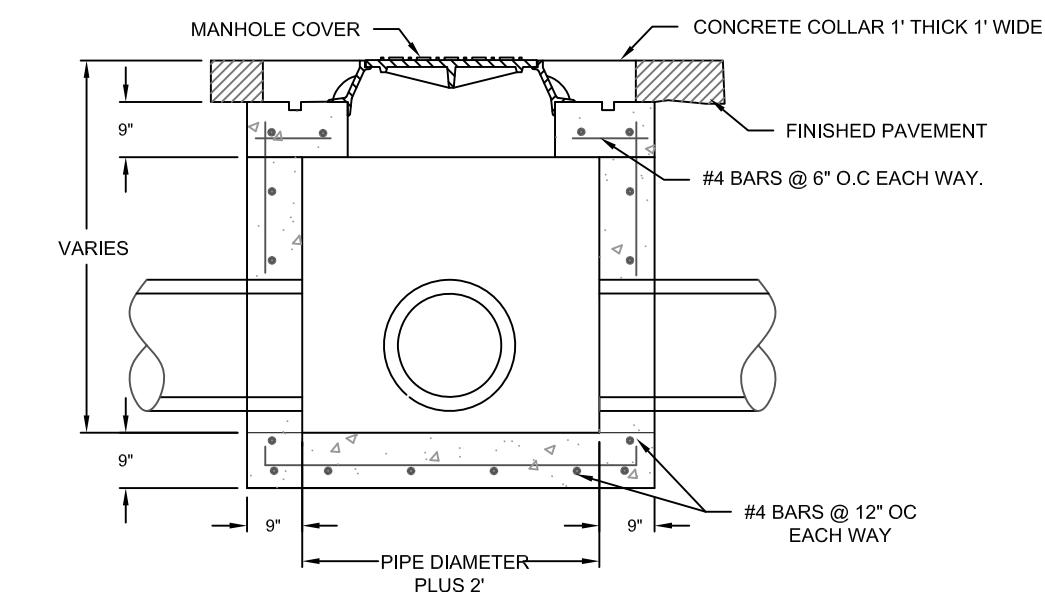
CATCH BASIN

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.



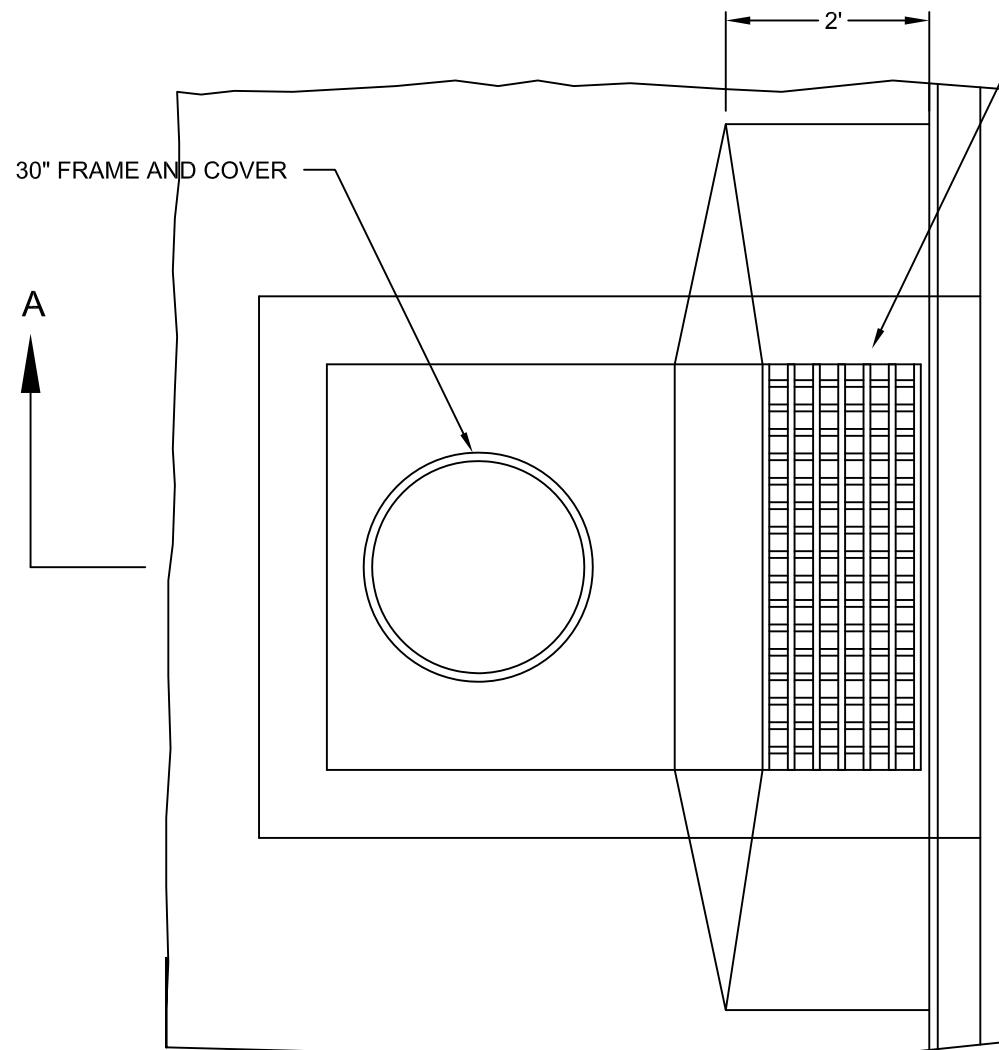
PLAN



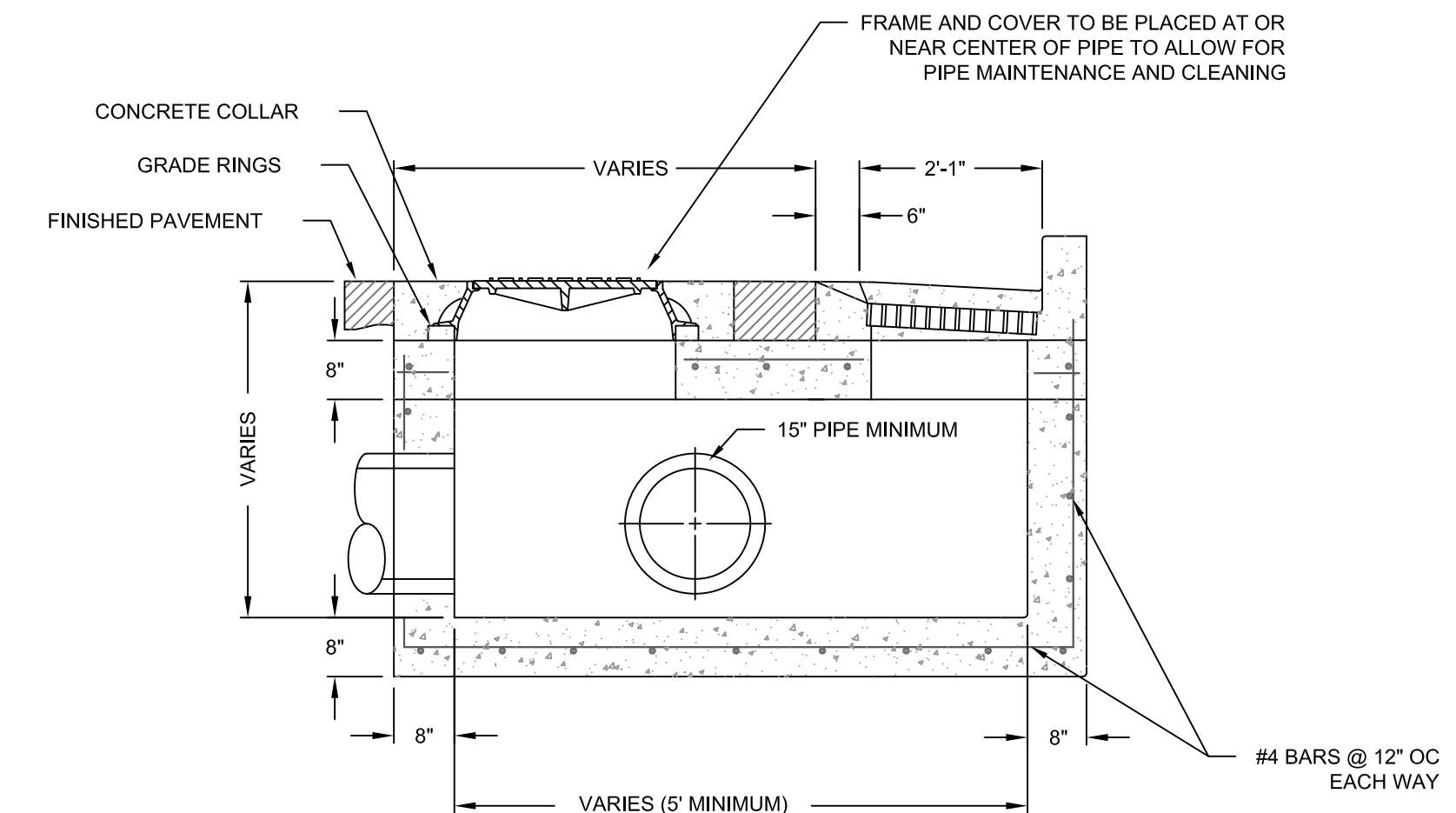
SECTION A-A

CLEANOUT BOX

DATE	REVISIONS	MADE BY	MURRAY	MURRAY CITY CORPORATION ENGINEERING DEPARTMENT 4646 SOUTH 500 WEST MURRAY, UT 84123 801 270-2400	MURRAY CITY CATCH BASIN AND CLEANOUT DETAILS C - 3
5/3/01	GENERAL REVISIONS	JTS			
4/5/04	RAMP UPDATES	JTS			
12/28/04	GENERAL REVISIONS	JKS			
4/10	GENERAL REVISIONS	MSP			
5/19	GENERAL REVISIONS	CTZ			



PLAN



SECTION A - A

COMBINATION INLET/CLEANOUT BOX

GENERAL NOTES

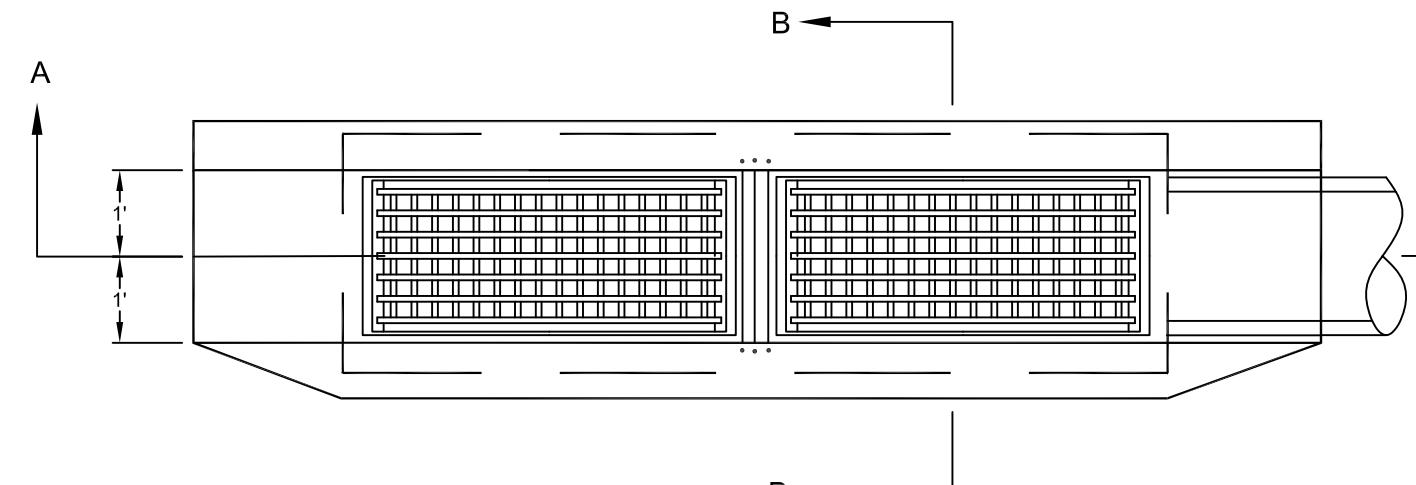
1. CONCRETE SHALL BE CLASS 4000 AS PER APWA SECTION 03 30 04.
2. REINFORCEMENT SHALL BE ASTM A 615, GRADE 60, DEFORMED BARS AS PER APWA SECTION 03 20 00.
3. BACKFILL WITH GRADE 1 UNTREATED BASE COURSE AS PER APWA 32 11 23 2.1.
4. MANHOLE COVER SHALL BE APWA STANDARD PLAN NO. 302.
5. GRADE RINGS SHALL 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

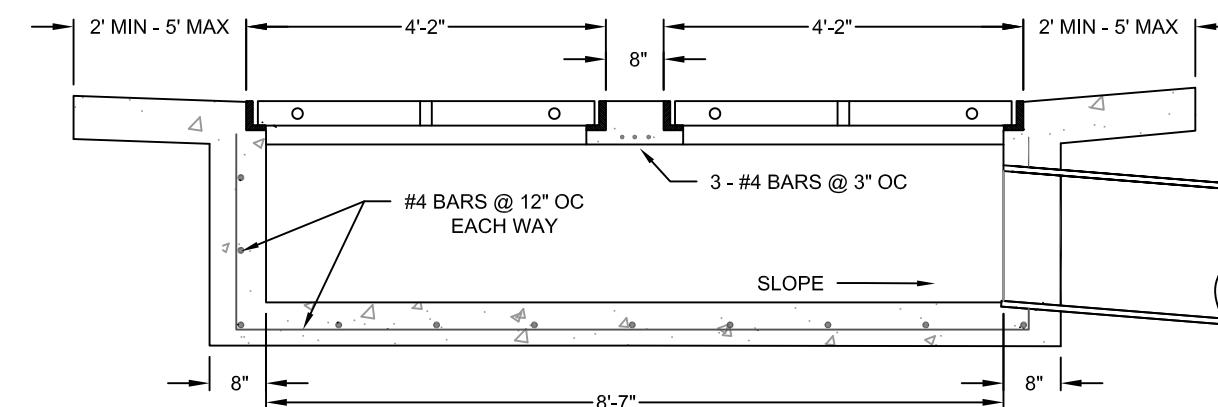


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ENGINEERING DEPARTMENT
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MURRAY, UT. 84123
270-2400

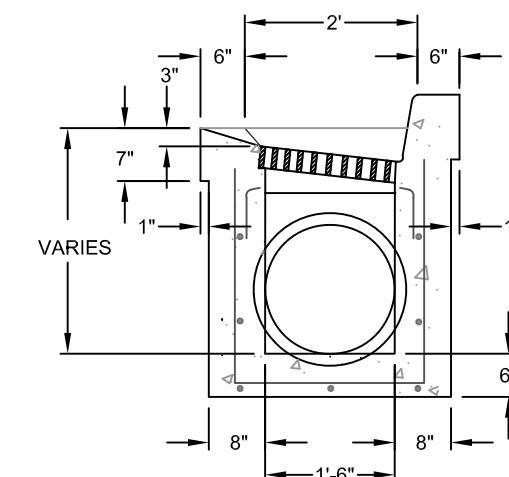
MURRAY CITY
COMBINATION
INLET/CLEANOUT BOX



PLAN



SECTION A - A



SECTION B - B

DOUBLE INLET CATCH BASIN

GENERAL NOTES

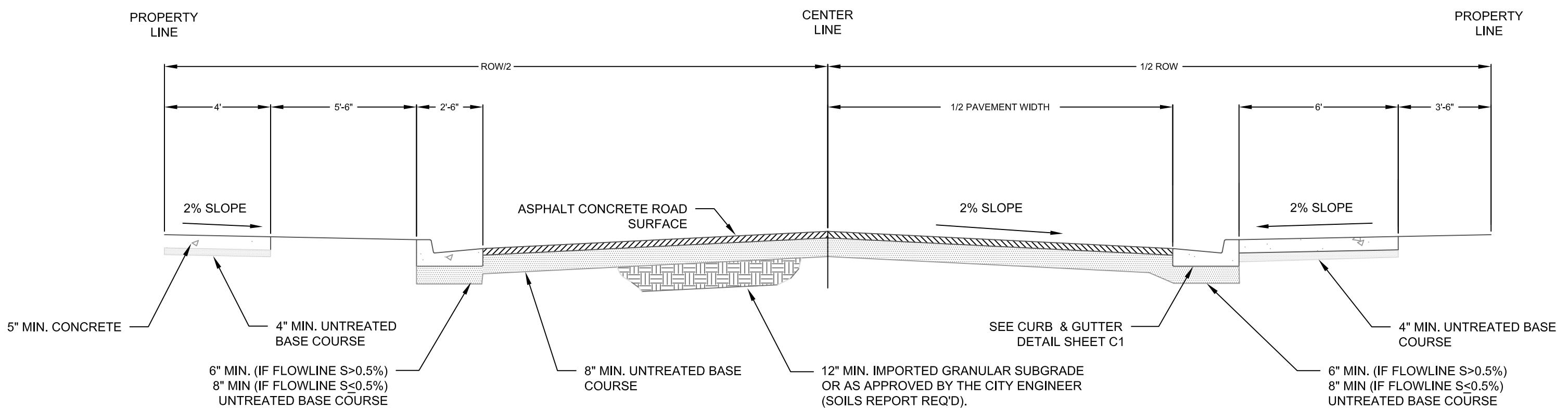
1. CONCRETE SHALL BE CLASS 4000 AS PER APWA SECTION 03 30 04.
2. REINFORCEMENT SHALL BE ASTM A 615, GRADE 60, DEFORMED BARS AS PER APWA SECTION 03 20 00.
3. BACKFILL WITH GRADE 1 UNTREATED BASE COURSE AS PER APWA 32 11 23 2.1.
4. DIRECTIONAL GRATE AND FRAME SHALL BE APWA STANDARD PLAN NO. 309 OR 310.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

DATE	REVISIONS	MADE BY
4/10	GENERAL REVISIONS	MSP
1/13	GENERAL REVISIONS	MSP
4/19	GENERAL REVISIONS	CTZ



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MURRAY CITY
DOUBLE INLET CATCH BASIN
DETAILS C - 4A



ROADWAY SECTION ROW*

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

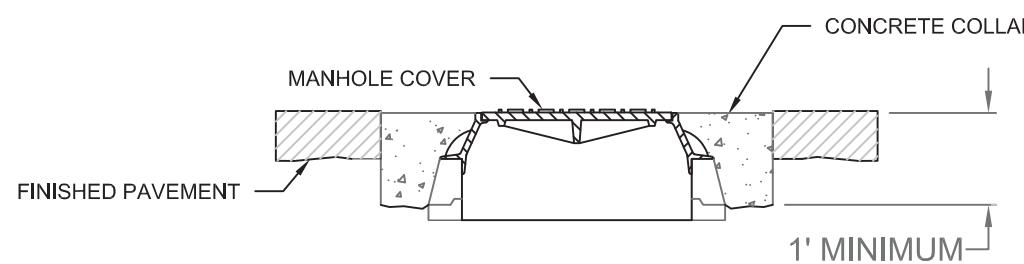
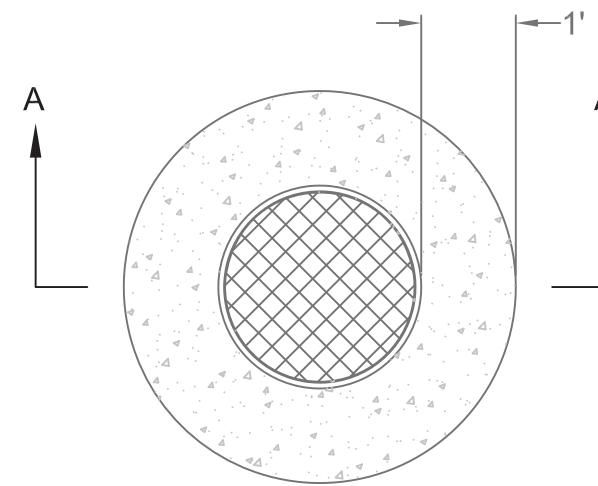
ROADWAY SECTION				
CLASSIFICATION	ROW (FT)	PAVEMENT WIDTH (FT)	LANES	PAVEMENT THICKNESS (IN)
ALLEY	25 TO 30	22 TO 25	2	3
RESIDENTIAL	49 TO 60	25 TO 35	2	3
MINOR COLLECTOR	60 TO 66	35 TO 40	2 TO 3	4
MAJOR COLLECTOR	66 TO 80	40 TO 60	2 TO 5	5 TO 6
MINOR ARTERIAL	66 TO 80	40 TO 60	3 TO 5	6 TO 7

DATE	REVISIONS	MADE BY
4/10	GENERAL REVISIONS	MSP
4/15	GENERAL REVISIONS	CTZ
4/19	GENERAL REVISIONS	CTZ



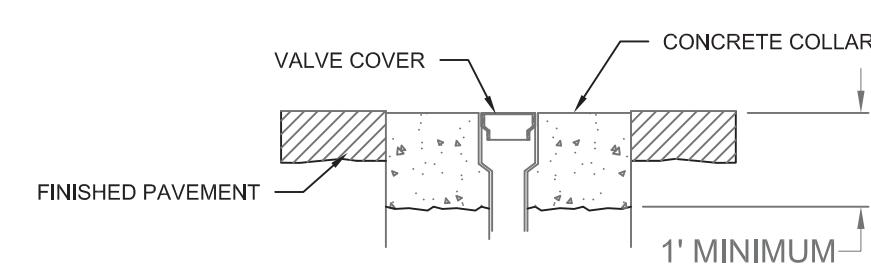
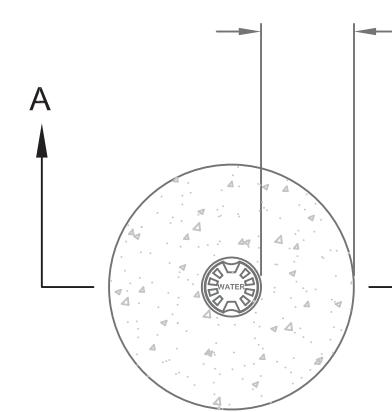
MURRAY CITY CORPORATION
ENGINEERING DEPARTMENT
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MURRAY, UT 84123
801 270-2400

MURRAY CITY
ROADWAY DETAIL
DETAILS C - 5



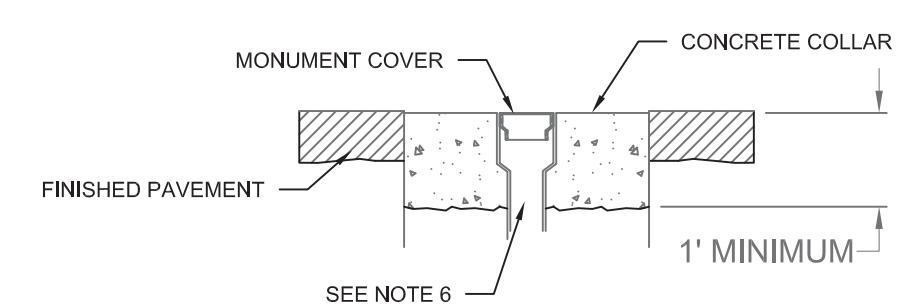
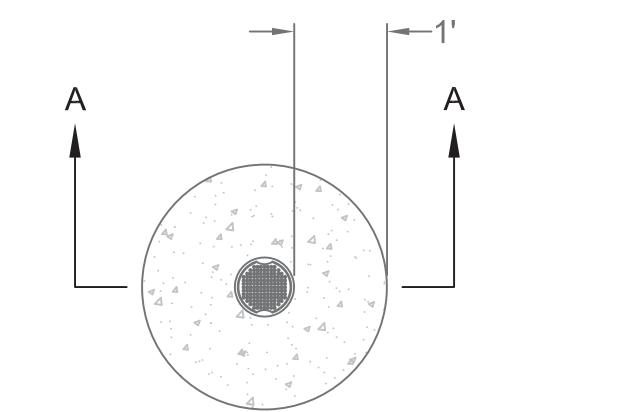
SECTION A-A

MANHOLE COLLAR



SECTION A-A

WATER VALVE COLLAR



SECTION A-A

SURVEY MONUMENT
COLLAR

GENERAL NOTES

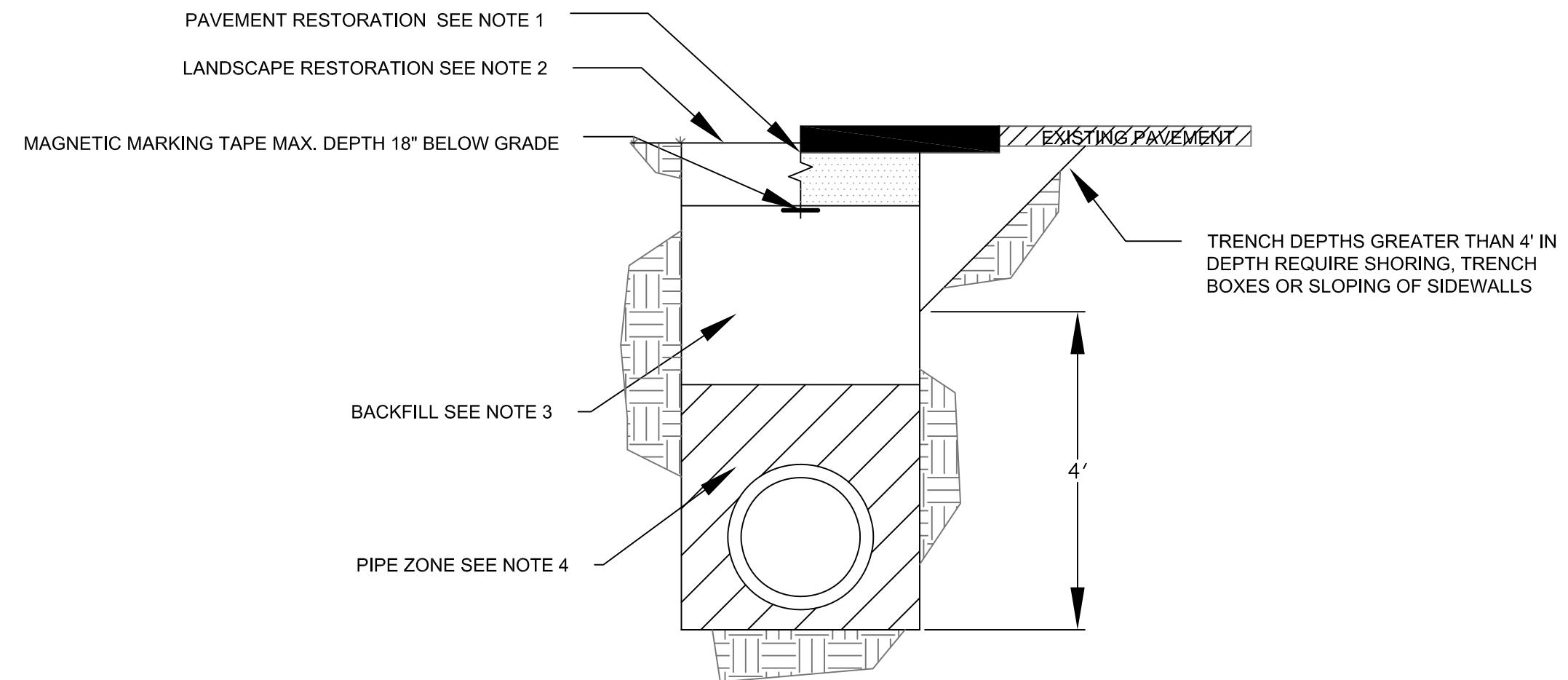
1. CONCRETE SHALL BE CLASS 4000 AS PER APWA SECTION 03 30 04. U-CART OR HAND MIXED CONCRETE WILL NOT BE ACCEPTED.
2. REINFORCEMENT SHALL BE ASTM A 615, GRADE 60, DEFORMED BARS AS PER APWA SECTION 03 20 00.
3. BACKFILL WITH GRADE 1 UNTREATED BASE COURSE AS PER APWA 32 11 23 2.1.
4. GRADE RINGS SHALL BE APWA STANDARD PLAN NO. 361
5. CONCRETE COLLAR SHALL BE APWA STANDARD PLAN NO. 362
6. SEE APWA STANDARD PLANS 273 AND 274 FOR MONUMENT 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
5/01/19	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 2017 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 2017 APWA STANDARD PLAN 382.

DATE	REVISIONS	MAD
2/13	GENERAL REVISIONS	MS
2/18	GENERAL REVISIONS	CT
5/19	GENERAL REVISIONS	CT



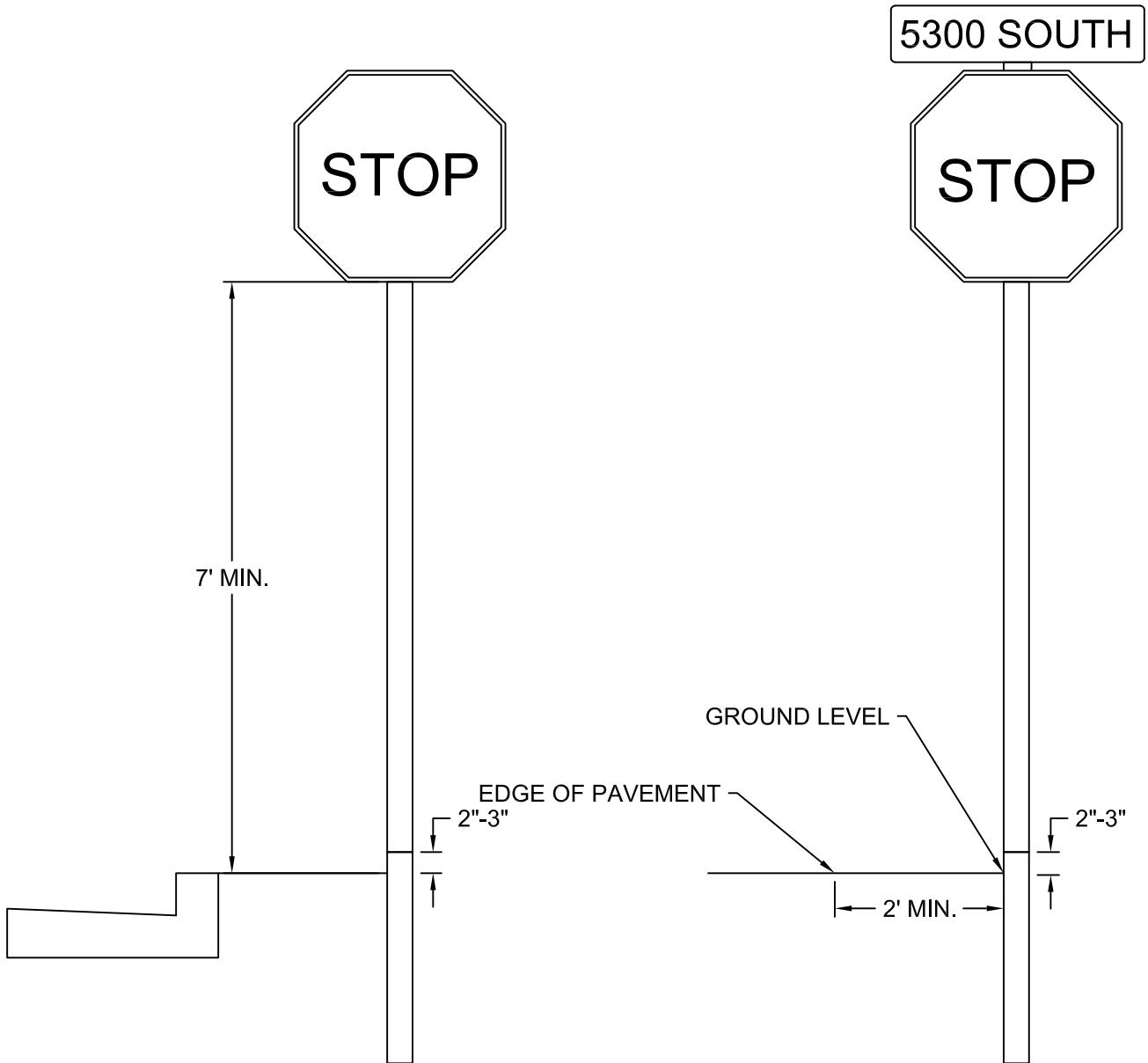
MURRAY CITY CORPORATION
ENGINEERING DEPARTMENT
4646 SOUTH 500 WEST
MURRAY, UT 84123
801.270.2400

MURRAY CITY

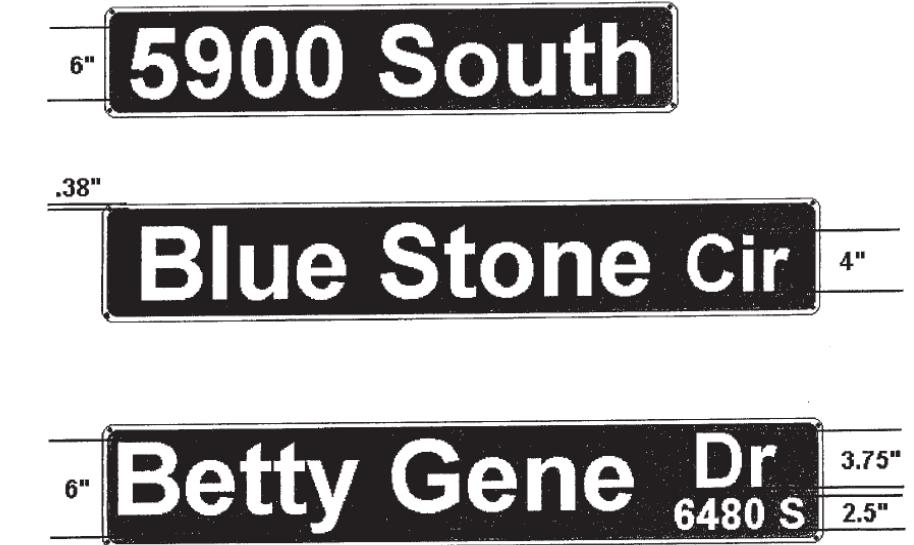
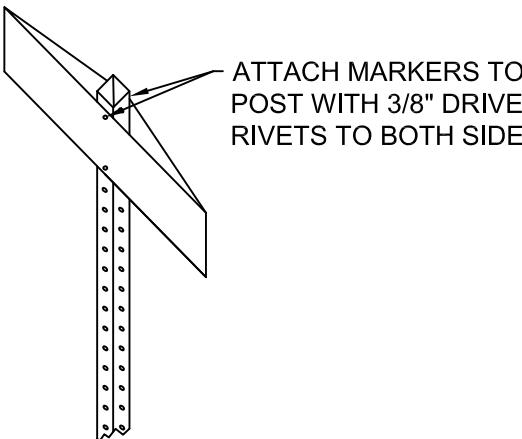
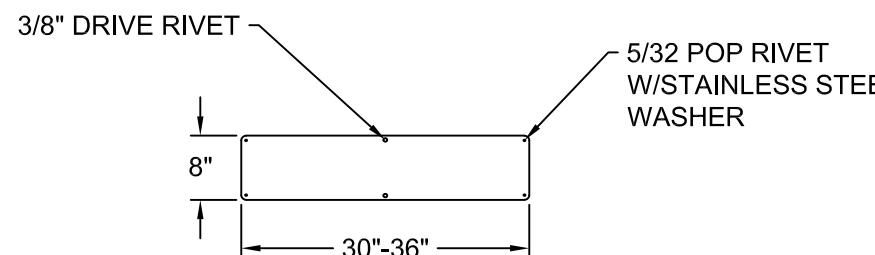
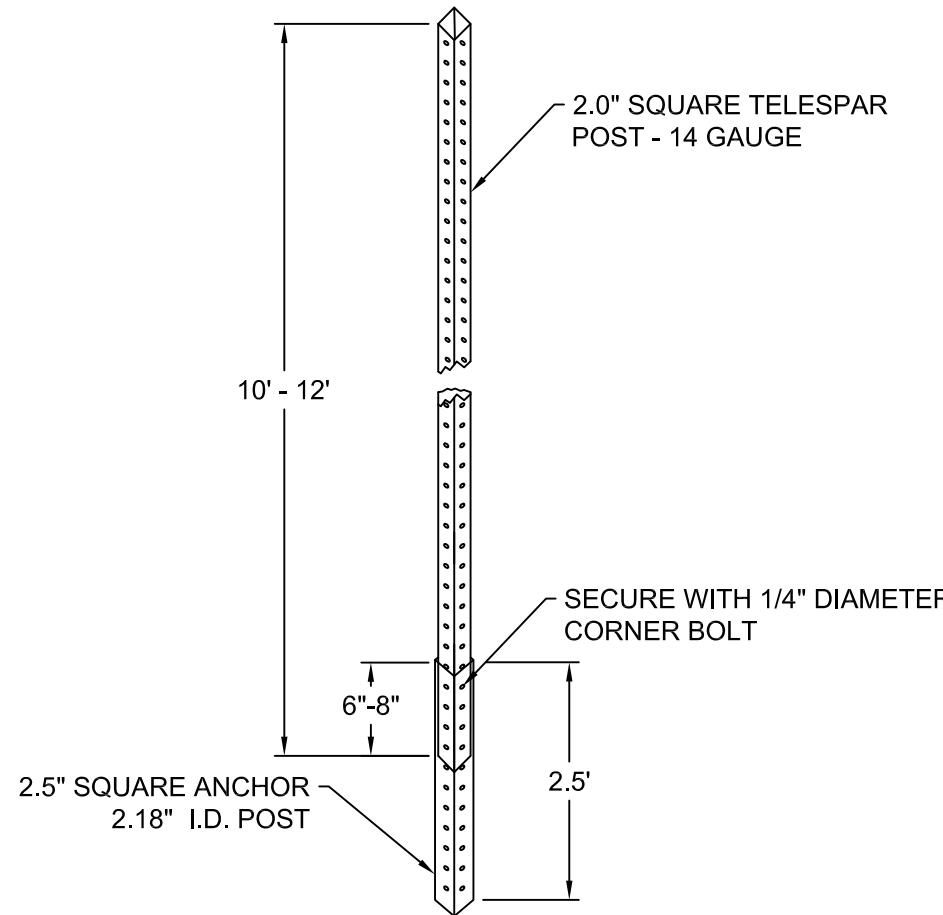
TRENCH BACKFILL

DETAIL C - 7

GENERAL NOTES



INSTALLATION DETAILS



LETTERING HEIGHTS

POST AND ANCHOR PLACEMENT

SIGN MOUNTING

DATE	REVISIONS	MADE BY	MURRAY CITY CORPORATION ENGINEERING DEPARTMENT 4646 SOUTH 500 WEST MURRAY, UT 84123 801 270-2400	MURRAY CITY POST AND SIGN MOUNTING DETAIL DETAILS C-9
			 MURRAY	