City of Scottsdale

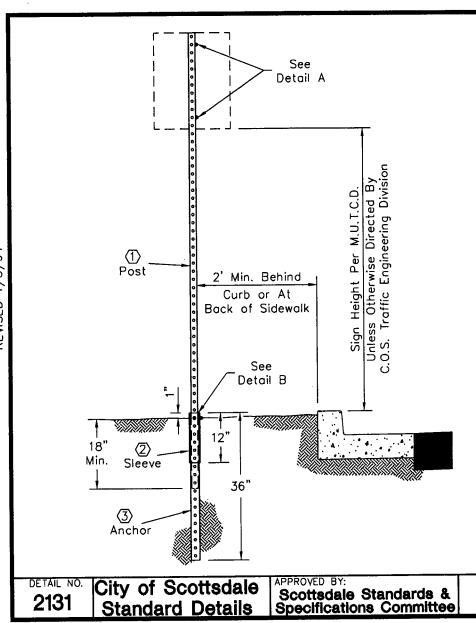


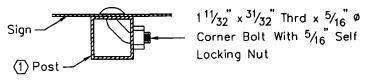
2005

SUPPLEMENTAL
STANDARD DETAILS
FOR
PUBLIC WORKS
CONSTRUCTION

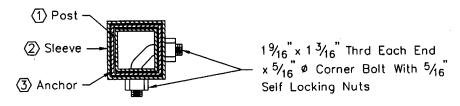
	Series ral Information Accessible Signage Sign Post Installation Raised Pavement Marker Layout Median Nose Signing — Type A & B Street Name Signs — Type A Street Name Signs — Type B Street Name Signs — 18" And 24" Metro Street Name Sign Installation Advance Street Name Signs	Stree 2228 2230 * 2231 * 2232 * 2233-1 * 2233-2 *	Series t Information Cont'd Cut-Off Wall Sidewalk Cut-Off For Utility Poles Detectable Warning Surface Directional Sidewalk Ramps Directional Sidewalk Ramps Retrofit — Type A Directional Sidewalk Ramps Retrofit — Type B Shared Curb Sidewalk Ramp Mid-Block Sidewalk Ramp — Type A	Stre 2270 2281 2282 2283 2284 2285 * 2290 * 2292-1*	Frame & Cover Grade Adjustment Multi-Use Path Crossing Sign Multi-Use Path Striping And Signing Multi-Use Path Details Multi-Use Path Wet Crossing Sign Double Bicycle Rack Median Island Details Speed Table Details Mid-Block Pedestrian Table
2165-2* 220	Loop Detectors Signal Pole Drilling Detail Traffic Signal Controller Cabinet Extender Model 330 Input Rack Wiring Instructions Tape Color Codes for Traffic Signal Wiring Refuse Enclosure Refuse Enclosure With Grease Containment Area Double Refuse Enclosure Double Refuse Enclosure With Grease Containment Area 16'Sliding Gate & Hinged Door 16' Sliding Gate OO Series eet Information Pavement Replacement Trench Bedding & Backfill	2237 2238 2239 2240 * 2250 2255 * 2256 * 2257 * 2258 * 2265-1 * 2265-2 * 2265-3 * 2265-4 * 2265-5 *	Mid-Block Sidewalk Ramp — Type B Sidewalk Pavers(Non-Traffic Bearing) Concrete Paver Crosswalk Median Concrete Pavers 6' Valley Gutter & Apron Driveway Entrances Residential Driveways Commercial/Industrial Driveways—Type CL Commercial/Industrial Driveways—Type CH Commercial/Industrial Driveways—Type Cl Bus Shelter — Foundation Plan Bus Shelter — Framing Plan Bus Shelter — Details Bus Shelter — Details Bus Shelter — Details Bus Shelter — Notes		Intersection Pedestrian Table Pedestrian Refuge O Series ter Information Butterfly Valve Operator Manhole Butterfly Valve Operator Manhole Nonpotable Water Valve Box & Cover Non—Potable Water Manhole Cover Water Manhole Cover Water Service Line Connection Chlorine Injection Tap Tap For Future Chlorine Injection Pressure Reducing Valve Pressure Reducing Valve 3", 4", 6" Water Meter 3", 4", 6" Water Meter
2202 2207 2210 2220 2221 2225 2226 DETAIL NO.	Trench Plating Residential Unpaved Road Grading Behind The Curb Curb And Gutter — Types "A" & "B" Curb And Gutter — Types "M" & "W" Median Nose & Reverse Curve Details 16' Median Nose Details City of Scottsdale	2265-7* 2266-1*	Bus Shelter — Abbreviations Closed End Bus Bay — Type "A" Closed End Bus Bay — Type "B" For Side Bus Bay Base Slab And Foundations For Bus Stop Bench And Receptocles Transit Shelter Pad	2346 * 2348 * 2349	Temporary Construction Meter Air / Vacuum Release Valve Water Quality Sampling Station OTE: *-Indicates New Or Revised Details For 2003 Supplement. DETAIL NO. 2100-1

2.	300 Series	23	00 Series	26	00 Series
W	ater Information Cont'd	<u>Wa</u>	ter Information Cont'd	Lar	ndscape Information
2351 *	Double Check Valve Backflow Prevention Assembly For Assemblies 3" Thru 10" Double Check Valve Backflow Prevention Assembly For Assemblies 3/4" Thru	2380 *	Temporary Water Supply Hydrant Meter Assembly Temporary Blow-Off For Water Supply	2600-1 2600-2 2600-3 2620-1	Minimum Tree Size Requirements Minimum Tree Size Requirements Minimum Tree Size Requirements Landscape Details
2353 *	2 1/2" Reduced Pressure Principle Bockflow Prevention Assembly For Assemblies 3" Thru 10"	2382 * 2397 * 2398 *	Temporary Water Service Electronic Ballmarker Placement Antenna Mast Detail	2620-2 2620-3 2631	Landscape Details Landscape Details Irrinet Pedestal Mounted Controller
2354 *	Reduced Pressure Principle Backflow Prevention Assembly For Assemblies 3/4" Thru 2 1/2"	·-	400 Series anitary Sewer Information Force Main Discharge Manhole	2632 2633 2634 2635-1	Scorpio Pedestal Mounted Controller Scorpio Wall Mounted Controller Irrinet Wall Mounted Controller Solar Controller
2355 *	Pressure Vacuum Breaker Assembly For Assemblies 1/2" Thru 2"	2403	2-Way F.M. Cleanout, 3" & Above	2635-2 2636	Solar Controller & Backflow Enclosure Irrigation Push Button Control
2356	Guard Posts For Backflow Prevention Assemblies	2404 2405	F.M. Cleanout W/ Sewer Release A.V. Sewer Air Release Valve	2641-1 2641-2	Single & Multi-Outlet Emitters Irrigation Emitter Layout
2357	Fill Pipe Details For Portable Tanks w/ Air Gap Separation	2420 2421 *	Water Tight Concrete Sewer Manhole Sanitary Sewer Manhole Cover	2642 * 2643	Irrigation Trenching Irrigation Thrust Block
2358 2359 *	Backflow Prevention For Portable Tanks With No Air Gap Separation	2440*	Sewer Building Connection	2644 2645	Rotor Sprinkler Assembly Pop-Up Sprinkler Assembly
	"N" Shaped Double Check Volve Backflow Prevention Assembly For Assemblies 3" Thru 10"		Monitoring/Sampling Vault	2646 2647 2648	Shrub Pop—Up Sprinkler Assembly Drip Filter & Pressure Regulator Emitter Flush Cap Assembly
2360 *	"N" Shaped Reduced Pressure Principle Backflow Prevention Assembly For Assemblies 3" Thru 10"	2508 2515–1	igation & Storm Drain Information Handrail Detail Wall Opening & Erosion Protection —	2649 2650 2651	Quick Coupler Assembly 1-1/2"& Smaller Mainline Ball Valve 2" & Larger Mainline Isolation Valve
2362 *	1-1/2" - 2" Fire Line Connection	2313 1	Type 1	2652 2653	2"Or Smaller Master Valve/Flow Meter 3"Or Larger Master Valve/Flow Meter
2363	Pavement Markers For Fire Hydrants	2515-2	Drainage Grate At Block Wall	2654 *	Remote Control Valve Assembly
2364 *	Fire And Emergency Access And Delineation	2515-3	Wall Opening Erosion Protection Type 2	2655 * 2680-1	Typical Irrigation Wire Connection Trail Access Gates
2365 *	Fire Lane Sign	2520*	Storm Drain Manhole Cover	2680-2 2681	Trail Access Gates Trail Water Bars
2366 *	Concrete Collar For Fire Hydrants	2535	Catch Basin Grates	2682	Trail Safety Barriers
2367 *	Fire Department Remote Siamese	2554	Concrete Invert Paving For Corrugated Metal Pipe And Pipe Arch	2683	Trail Signs
2368 *	Connection Fire Sprinkler Riser Detail — Vertical	2560-1* 2560-2*	Storm Drain Inlet Marker Storm Drain Inlet Marker On Headwall		
2369 *	Installation #1 Fire Sprinkler Riser Detail — Vertical Installation #2	2560-3*	Storm Drain Inlet Marker On Catch Basin/Scupper		
2370	Vertical Realignment Of Water Mains	2562-1	Storm Sewer Outfall Access Barrier	MO	TE: *-Indicates New Or Revised
2372	Minimum Utility Separation Requirements	2562-2	Barrier Specifications Schedule	NO	Details For 2003 Supplement.
2100-2	City of Scottsdale Standard Details		INDEX		DETAIL NO. 2100-2





Detail A Sign Mounting



Detail B Anchor Assembly

Legend

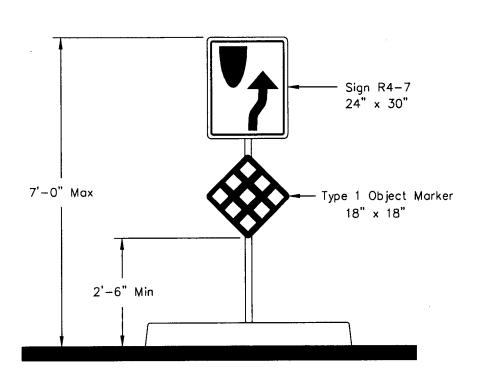
- (1) Post -1-3/4" x 1-3/4" Square Perforated 0.105" Galvanized Steel Tubing (Green Finish)
- $\langle \overline{2} \rangle$ Sleeve 2-1/4" x 2-1/4" x 12", Square Perforated 0.105 Galvanized Steel Tubing (Green Finish)
- (3) Anchor 2" x 2" x 36", Square Perforated 0.105" Galvanized Steel Tubing (Green Finish)

NOTE:

1. Sign Post, Sleeve And Anchor Per COS Supplemental Spec. Section 402.3

SIGN POST INSTALLATION

DETAIL NO.



Type 2H Object Marker 2'-6"

TYPE "B"

(ALL OTHER MEDIANS)

NOTES:

- 1. See COS Std Det 2225 Or 2226 For Typical Location.
- 2. Sign Posts Per COS Std Det 2131.

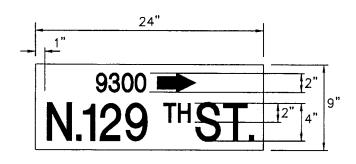
TYPE "A"

(AT SIGNALIZED INTERSECTIONS OR AS SHOWN ON PLANS AND FIRST & LAST NOSE ON A STRING OF MEDIANS)

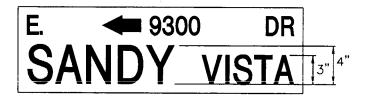
City of Scottsdale
Standard Details

APPROVED BY:
Scottsdale Standards &
Specifications Committee

MEDIAN NOSE SIGNING-TYPE A&B







TYPE A SIGNS

Type IIA Super Engineering Grade Green/White (2 Sides)

Blank Sizes: 9"x 24", 9"x 30", 9"x 36", 9"x 42"

Intended Usage: Type "A" Street Name Signs shall be used in residential areas where Residential Streets interesect with Local Collector Streets. See the COS General Plan for Street Designations.

2134-1

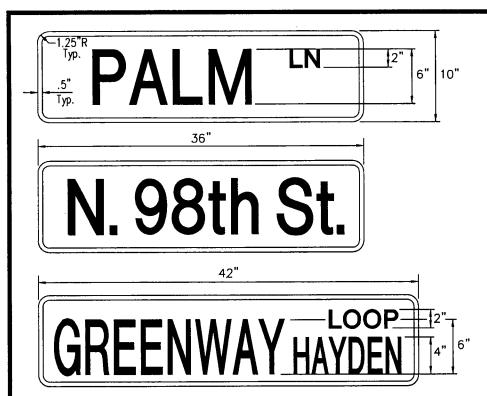
City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

STREET NAME SIGNS - TYPE A

DETAIL NO. 2134-1

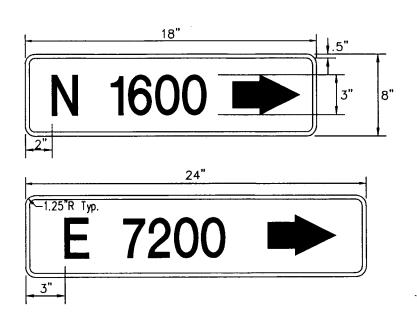


TYPE B SIGNS

Type III High Intensity Grade Green/White (2 Sides)

Blank Sizes: 10"x 36", 10"x 42"

Intended Usage: Type "B" Street Name Signs shall be used where a Residential Street or a Local Collector Street interesects with a street with a classification of Major Collector or larger. See the COS General Plan for Street Designations.



TYPE B BLOCK NUMBERS

Type III High Intensity Grade Green/White (1 Side)

Blank Sizes: 8"x 18", 8"x 24"

Type "B" Block Numbers to be mounted with Type "B" Street Name Signs.

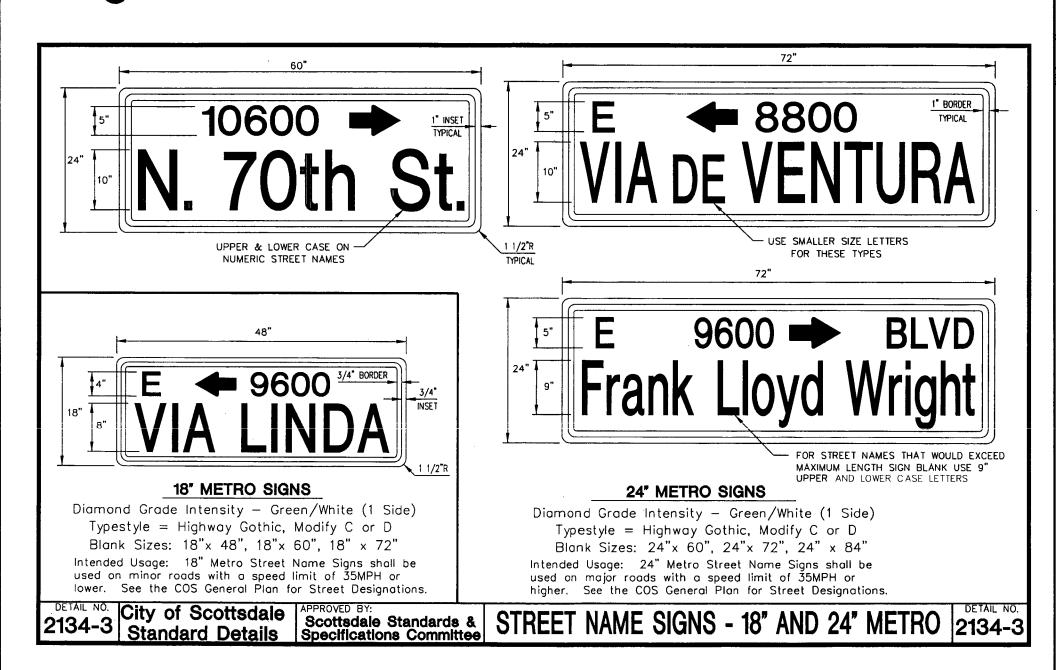
City of Scottsdale
Standard Details

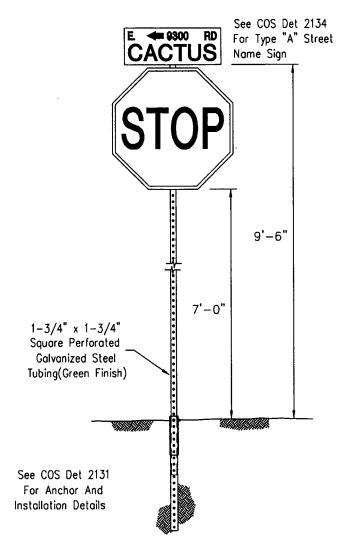
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Scottsdale Standards & Specifications Committee

STREET NAME SIGNS - TYPE B

DETAIL NO. **2134-2**





NOTES:

Street name sign and stop sign mounting height shall be measured from adjacent grade of sidewalk, top of curb or top of nearest pavement.

When no stop sign is required the street name sign is mounted at 9 feet 6 inches.

When two street name signs are mounted one on top of the other, the height is measured to the bottom sign.

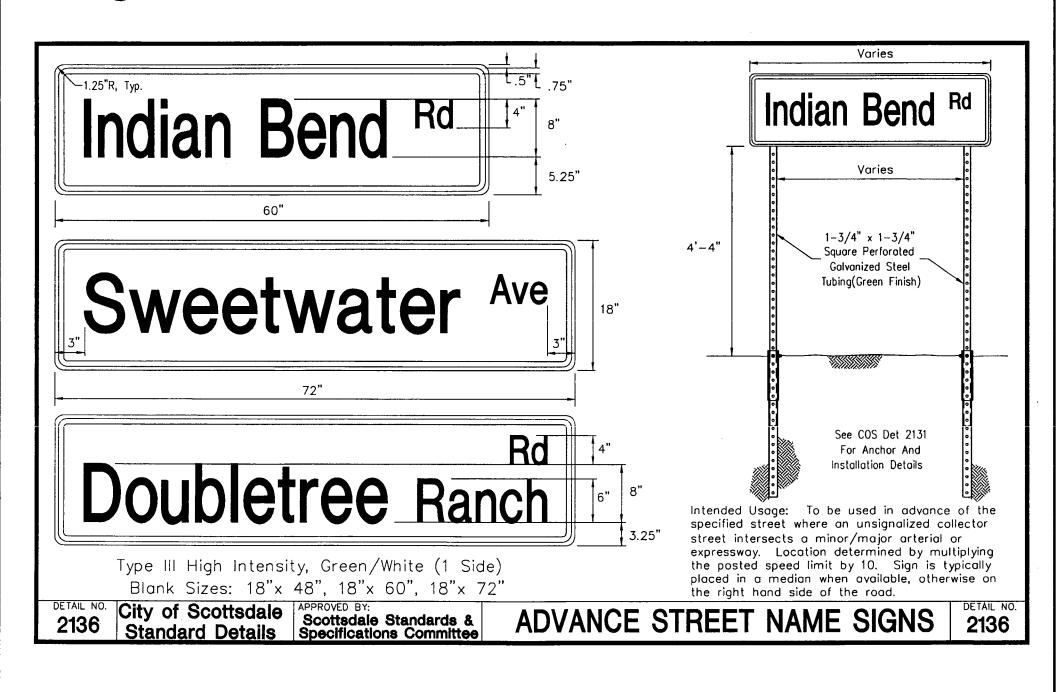
2135

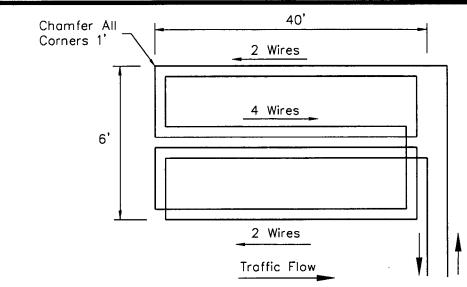
City of Scottsdale Standard Details

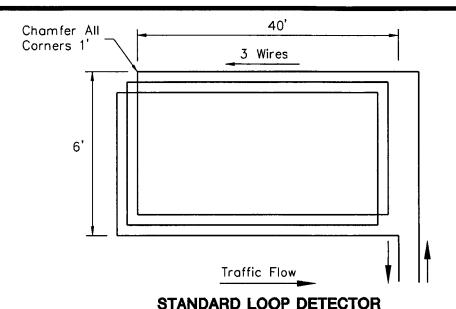
APPROVED BY:

Scottsdale Standards & Specifications Committee

STREET NAME SIGN INSTALLATION







QUADRUPOLE LOOP DETECTOR For Left Turn Lanes Only

NOTES:

- 1. All loop detectors shall be wire—in—duct type wire. (Detect—a—Duct or approved equivalent, #14 stranded inside a 1/4" PVC tubing (IMSA 51-5).
- 2. All loop detectors shall be centered in the middle of the applicable traffic lane. Loop shall be sufficiently dimensioned on the plans. Loop detectors shall extend five feet into the crosswalk unless directed otherwise by the Traffic Engineering Department.
- 3. A rectangular loop with 3 turns (6 feet x 40 feet) shall be used for all through lanes.
- 4. A quadrupole loop with 2 outside turns and 4 inside turns (6 feet x 40 feet) shall be used in all exclusive left-turn lanes. (Wire in middle cut shall run the same direction.
- 5. Loop detectors shall not be installed in exclusive right turn lanes.
- 6. The location of permanent count detector loops shall be specified by the Traffic Engineering Department. Count detector loops shall consist of a minimum of 4 turns (6 feet x 6 feet).

- 7. Pre-formed loop detectors conforming to the latest ADOT specifications shall be used under decorative pavement, "pavers", concrete, or other "special" roadway surfaces, or as directed by the Traffic Engineering Department.
- 8. Lead—in cable between loop wire and controller shall be latest ADOT specification or approved equivalent (IMSA 50-2).
- Loop lead—in and splices in pull box shall be twisted and soldered. Griggs Loop Detector Sealant, 3-M Loop Sealant, or approved equivalent shall be used.
- 10. Loops shall be installed prior to the installation of the final pavement lift (if part of a paving project).
- 11. Loops shall be inspected and tested prior to acceptance by the City.

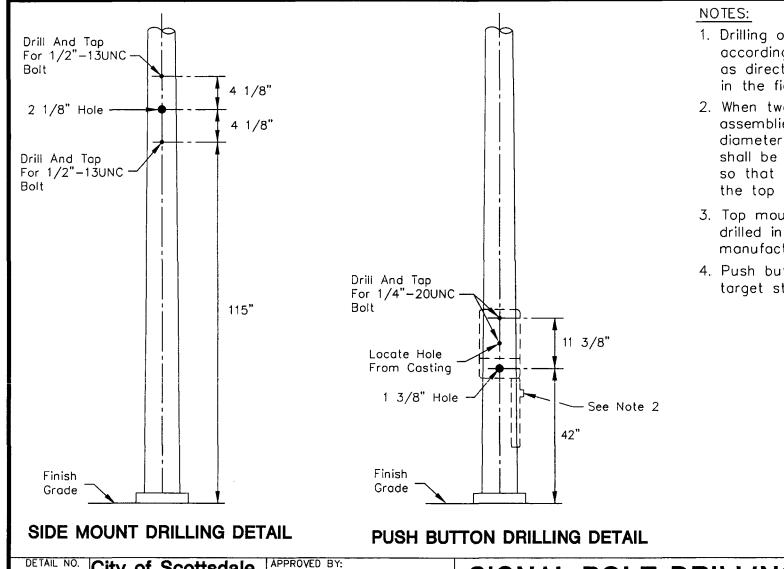
12. See ADOT TS 7-1 for installation details.

DETAIL NO. **2137**

City of Scottsdale Standard Details APPROVED BY:

Scottsdale Standards & Specifications Committee

LOOP DETECTORS



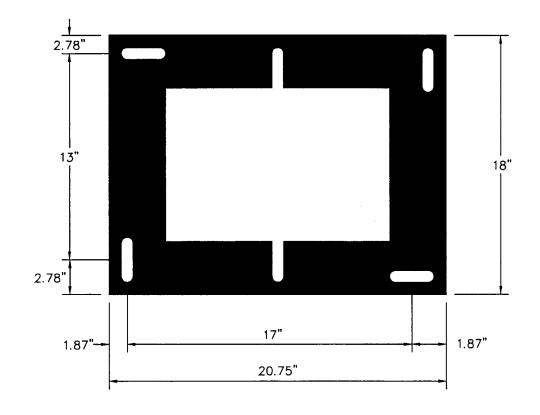
- 1. Drilling of pole to be oriented according to pole layout, or as directed by C.O.S. Engineer in the field.
- 2. When two pedestrian push button assemblies are mounted on a small diameter pole the lower assembly shall be positioned upside down so that the push button is at the top and the sign is below.
- 3. Top mounting holes to be field drilled in order to allow for manufacturing variations.
- 4. Push button shall be A.D.A large target style (ADOT Type I).

City of Scottsdale Standard Details

2138

Scottsdale Standards & Specifications Committee

SIGNAL POLE DRILLING DETAIL



INSIDE VIEW OF BOTH SIDES OF BASE EXTENDER

- 1. Model 330 cabinet base extenders will include cutouts that will accommodate replacement with all other Scottsdale 330 cabinets and model 336S. These base extenders are available from the cabinet manufacturer. All Scottsdale cabinets are foundation mounted.
- 2. Foundation must include a 4" x 24" x 24" concrete pad in front of the cabinet door.
- 3. The cabinet shall be mounted in such a way that when the technician has the door open and is facing the cabinet, he is also facing the intersection.
- 4. Cabinet base extender shall have a 12" x 12" removable access panel. Base extender shall be installed so that access panel is on door side of cabinet.

DETAIL NO. 2139

City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

TRAFFIC SIGNAL CONTROLLER CABINET BASE EXTENDER

LOOP AND PEDESTRIAN PUSH BUTTON INPUTS

Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9	Slot 10	Slot 11	Slot 12	Slot 13	Slot 14
1 AB Ph 1	3 AB Ph 2	5 AB Ph 3	7 AB Ph 4	9 AB Ph 5	11 AB Ph 6	13 AB Ph 7	15 AB Ph 8	17 AB 2 PPB	19 AB 4PPB	21 AB RRPre	23 AB AdvEn	25 AB EV A	27 AB Stop Time
2 AB Ph 1	4 AB Ph 2	6 AB Ph 3	8 AB Ph 4	10 AB Ph 5	12 AB Ph 6	14 AB Ph 7	16 AB Ph 8	18 AB 6 PPB	20 AB 8PPB	22AB Flash	24 AB Adv	26 AB EV B	28 AB 6 Call
Det Loops	Det Loops	Det Loops	Det Loops	Det Loops	Det Loops	Det Loops	Det Loops	Ped Push Buttons	Ped Push Buttons	*45555		Pre- Empt	Slot 14 Slot 14

- 1. All Scottsdale model 330 cabinet input racks have 14 slots.
- 2. Slots 1-8 are for vehicle detector loops.
- 3. Phase 4 loops are terminated on slot 4 (7A&B and/or 8A&B).
- 4. Phase 4 pedestrian push button is terminated on 19A and ppb neutral on 19B.
- 5. 19B shall have a jumper to the neutral bar.
- 6. All two phase intersections are to be wired to phases 2 and 4.
- 7. Field output wiring for 2 phase signals shall be wired to 2R, 2Y, 2G and 4R, 4Y, 4G.
- 8. Ped field wiring shall be wired to 9R, 9G (Phase 2 Ped) and 10R, 10G (Phase 4 Ped).
- 9. Call COS Traffic Signals (480)312-5635 prior to wiring cabinet for instructions for intersections with more than 2 phases.

DE.	TAIL	NO.

MAIN DIRECTIONS

(Main Color + White)

RIGHT TURN DIRECTIONS (Main Color + Black)

Color Of Wire For Power/Neutrals/Pushbuttons

Direction	Color
WB	Blue
EB	Green
NB	Red
SB	Yellow

Direction	Color
WBLT	Blue + White
EBLT	Green + White
NBLT	Red + White
SBLT	Yellow + White

Direction	Color
WBRT	Blue + Black
EBRT	Green + Black
NBRT	Red + Black
SBRT	Yellow + Black

Wire	Color		
AC+ Power	Black		
AC- (Neutral)	White		
24V Pushbutton	Orange, Stranded		

WBLT = West Bound Left Turn and shall be the phase for vehicles facing west and turning to south

EBLT = East Bound Left Turn and shall be the phase for vehicles facing east and turning to north

NBLT = North Bound Left Turn and shall be the phase for vehicles facing north and turning to west

SBLT = South Bound Left Turn and shall be the phase for vehicles facing south and turning to east

WBRT = West Bound Right Turn and shall be the phase for vehicles facing west and turning to north

EBRT = East Bound Right Turn and shall be the phase for vehicles facing east and turning to south

NBRT = North Bound Right Turn and shall be the phase for vehicles facing north and turning to east

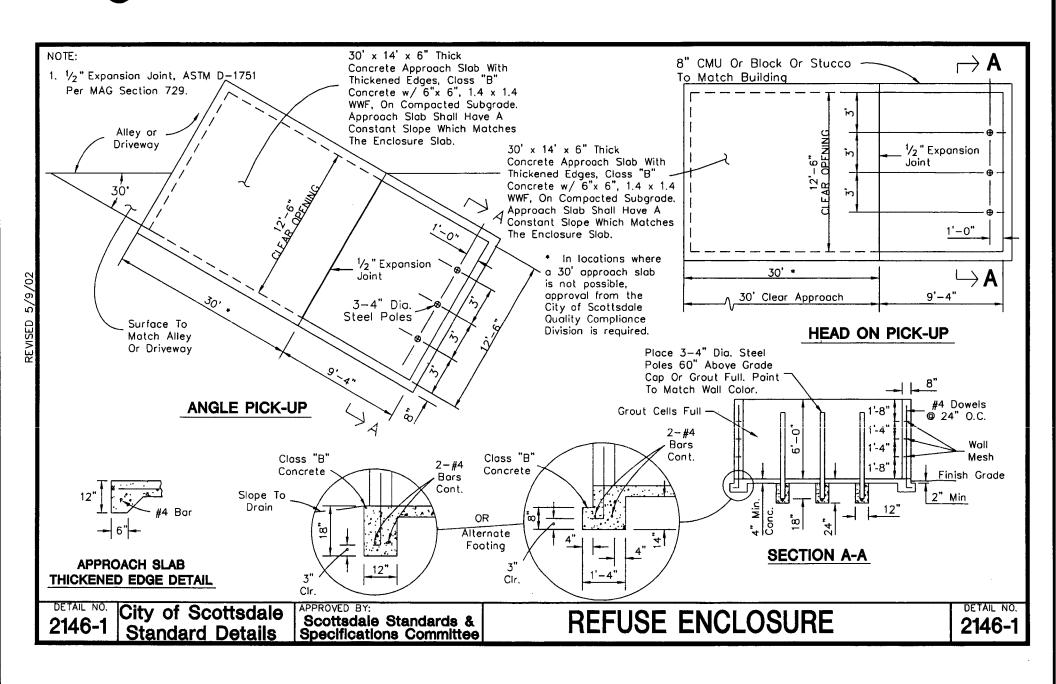
SBRT = South Bound Right Turn and shall be the phase for vehicles facing south and turning to west

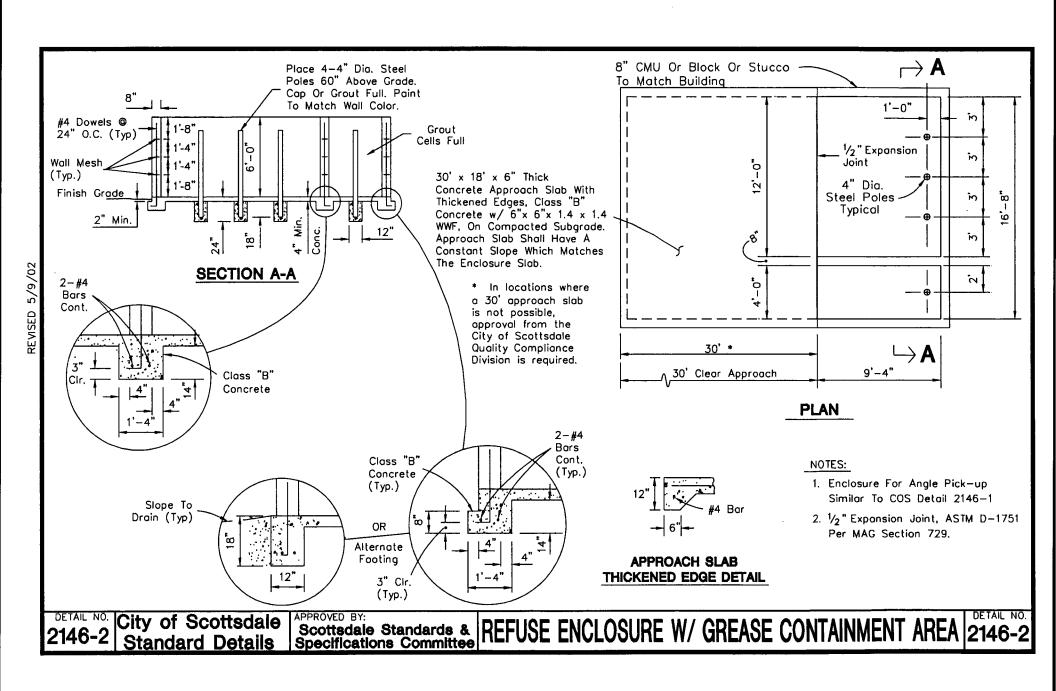
2141

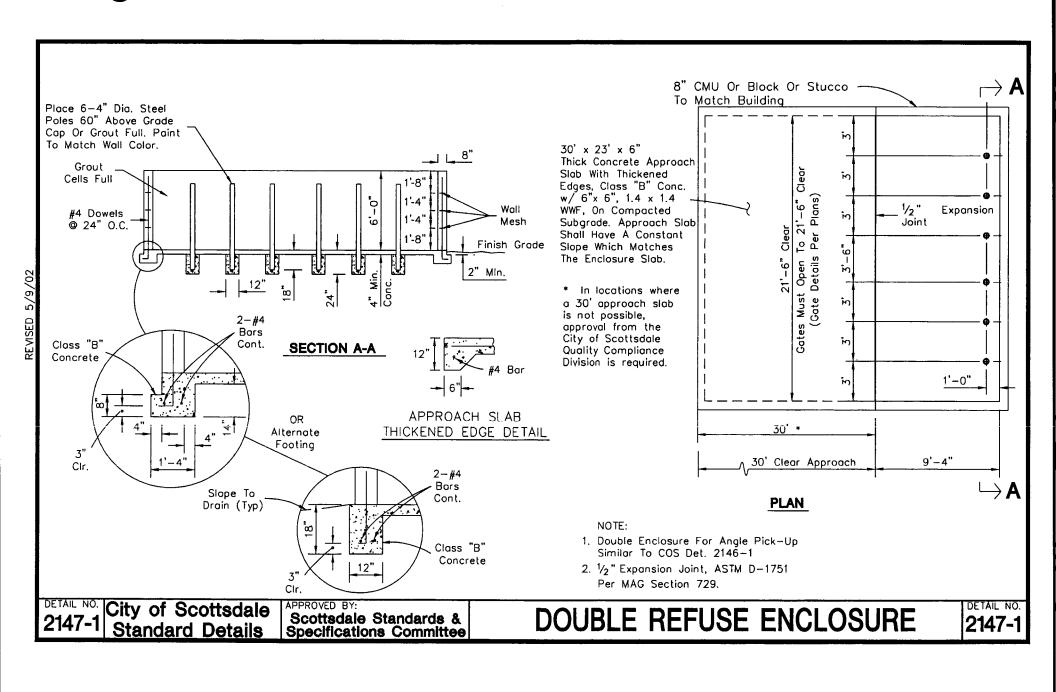
City of Scottsdale Standard Details

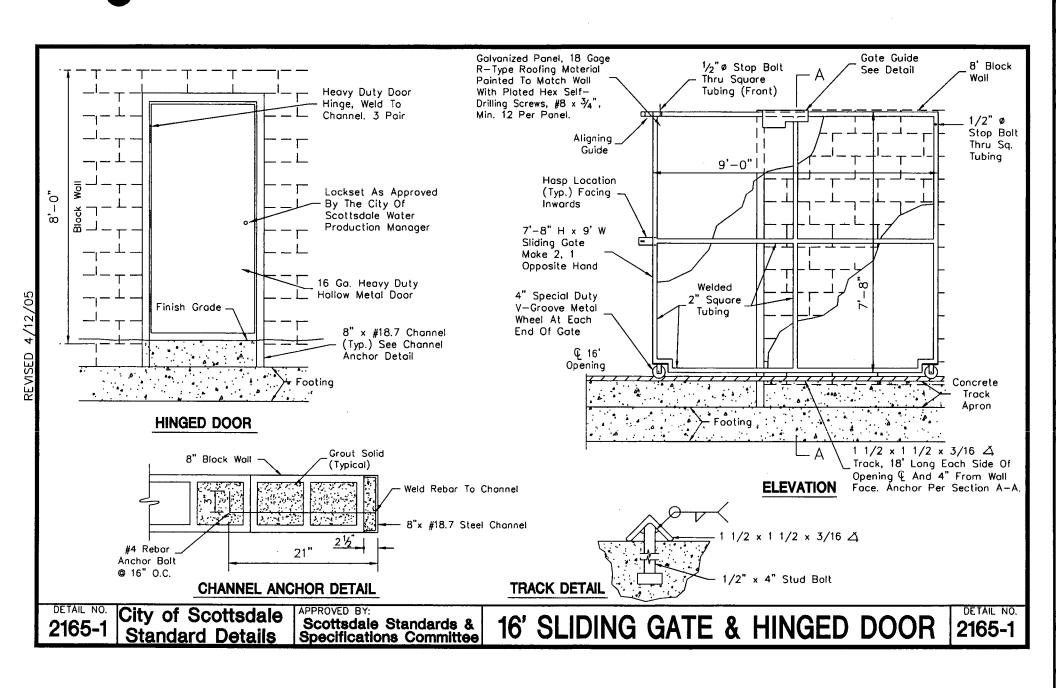
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Specifications Committee

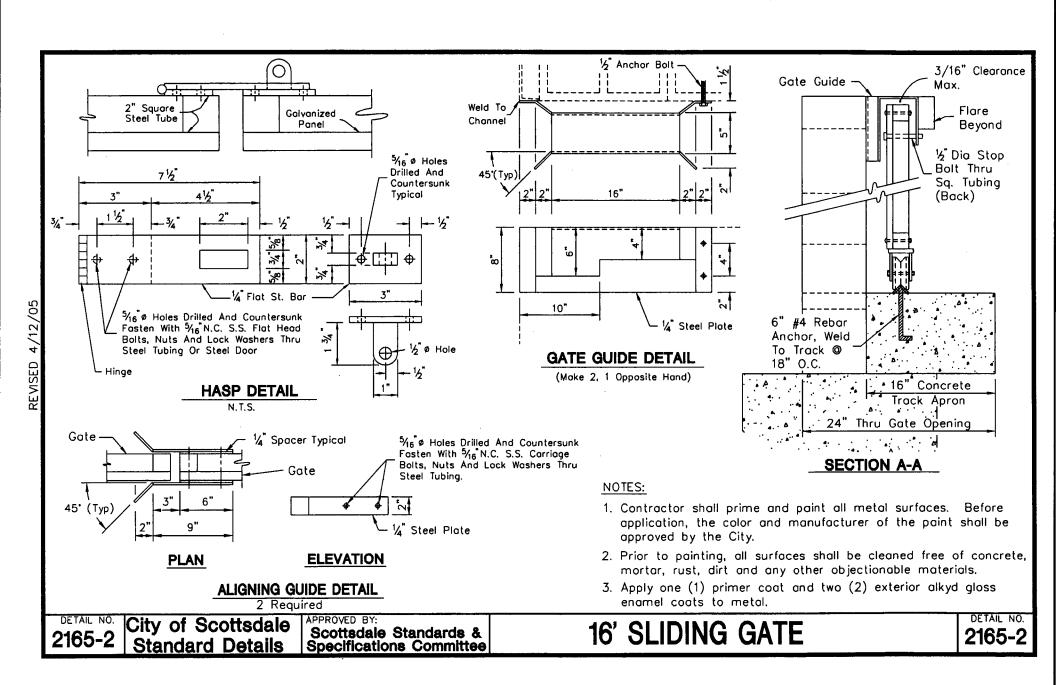
TAPE COLOR CODES FOR TRAFFIC SIGNAL WIRING

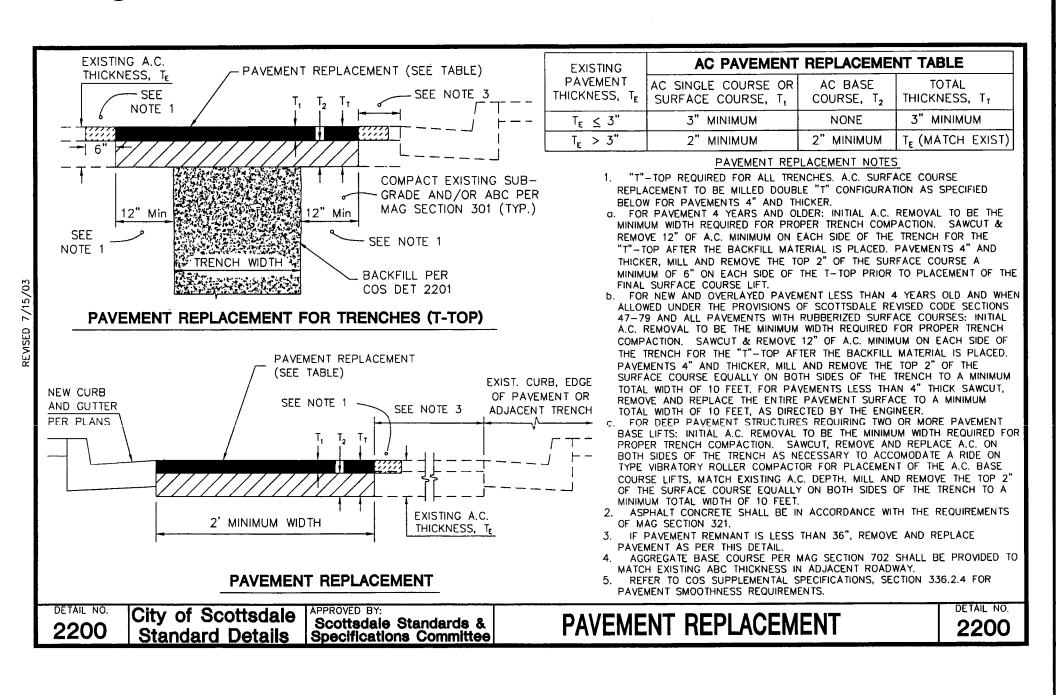


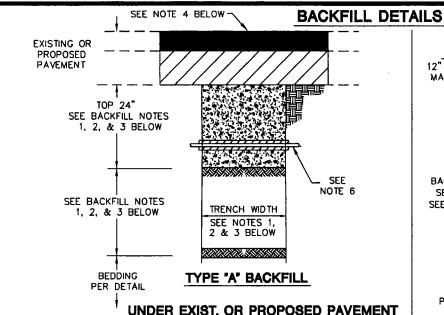












UNDER EXIST. OR PROPOSED PAVEMENT OR EXIST. SURFACE TREATMENT

BACKFILL NOTES

- TRENCHES 24" IN WIDTH OR LESS 1 SACK CSLM, MAG 728. FULL DEPTH OF BACKFILL BOTTOM OF ABC LAYER IN PAVEMENT STRUCTURE OR 6" BELOW PAYEMENT IN FULL DEPTH PAYEMENT STRUCTURES. CONSTRUCT PAVEMENT STRUCTURE TO MATCH EXISTING AND IN ACCORDANCE WITH COS DETAIL 2200.
- 2. TRENCHES 24" TO 6' IN WIDTH 1 SACK CSLM AS DESCRIBED IN NOTE 1 ABOVE WITHIN THE TOP 24" OF THE TRENCH: MAG 601,4.3 FOR BALANCE OF BACKFILL.
- TRENCHES OVER 6' IN WIDTH MAG 601.4.3 FULL DEPTH OF BACKFILL. TREAT ENTIRE DISTURBED SURFACE OF UNPAYED ALLEYS WITH LIGNIN-BASED DUST PALLATIVE, MAG 792, 1:1 DILUTION RATIO, 0.50 5. GAL/SY APPLICATION RATE.

CSLM SHALL NOT BE USED FOR WATER OR SEWER PIPE BEDDING. SEE BEDDING DETAIL.

EXPOSED COPPER OR POLYETHYLENE WATER PIPES IN SIZES I' TO 2" SHALL BE WRAPPED WITH I WIDE BLACK INSULATION BEFORE PLACING 7. RECYCLED ASPHALT SHALL NOT BE USED FOR BACKFILL.

SEE NOTES FINISHED GRADE 2 & 3 BELOW 12" COMPACTED MATERIAL PER PLAN BACKFILL PER MAG TRENCH WIDTH SECTION 601,4,3 SEE NOTE 1 BELOW BEDDING PER DETAIL TYPE "B" BACKFILL . **UNDER UNPAVED**

BACKFILL NOTES

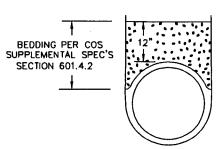
MAG 601.4.3 FULL DEPTH OF BACKFILL ENTIRE DISTURBED EXISTING SURFACE TO

ROADWAY, PARKING LOT

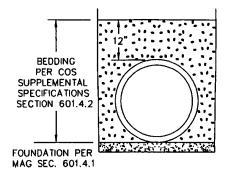
AND VACANT LAND

- BE RESTORED WITH A LIKE MATERIAL
- TREAT ENTIRE DISTURBED SURFACE WITH LIGNIN-BASED DUST PALLATIVE, MAG 792, 1:1 DILUTION RATIO, 0.50 GAL/SY APPLICATION RATE.
- RECYCLED ASPHALT SHALL NOT BE USED FOR BACKFILL,

BEDDING DETAILS



BEDDING DETAIL CAST-IN-PLACE PIPE



BEDDING DETAIL ALL OTHER PIPE

NOTES:

- 1. FOR HOPE PIPE SEE COS SUPPLEMENTAL SPECIFICATIONS SECTION 603.4.2
- 2. RECYCLED ASPHALT SHALL NOT BE USED FOR BEDDING OR FOUNDATION MATERIAL

DETAIL NO. 2201

City of Scottsdale Standard Details

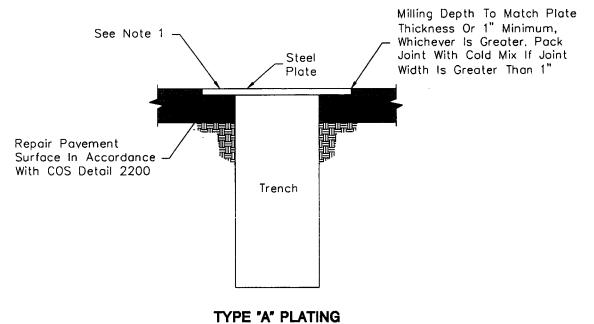
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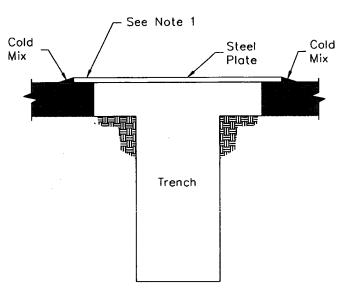
Scottsdale Standards & **Specifications Committee** TRENCH BEDDING & BACKFILL

DETAIL NO.

NOTES:

- 1. The contractor shall provide adequate overlap of plate on asphalt to assure no slippage of plate and no collapsing of trench.
- 2. "Posted Speed" does not include temporary construction signing.





TYPE "B" PLATING

CITY POSTED SPEEDS UNDER 35 MPH

DETAIL NO. 2202 City of Scottsdale Standard Details

APPROVED BY:

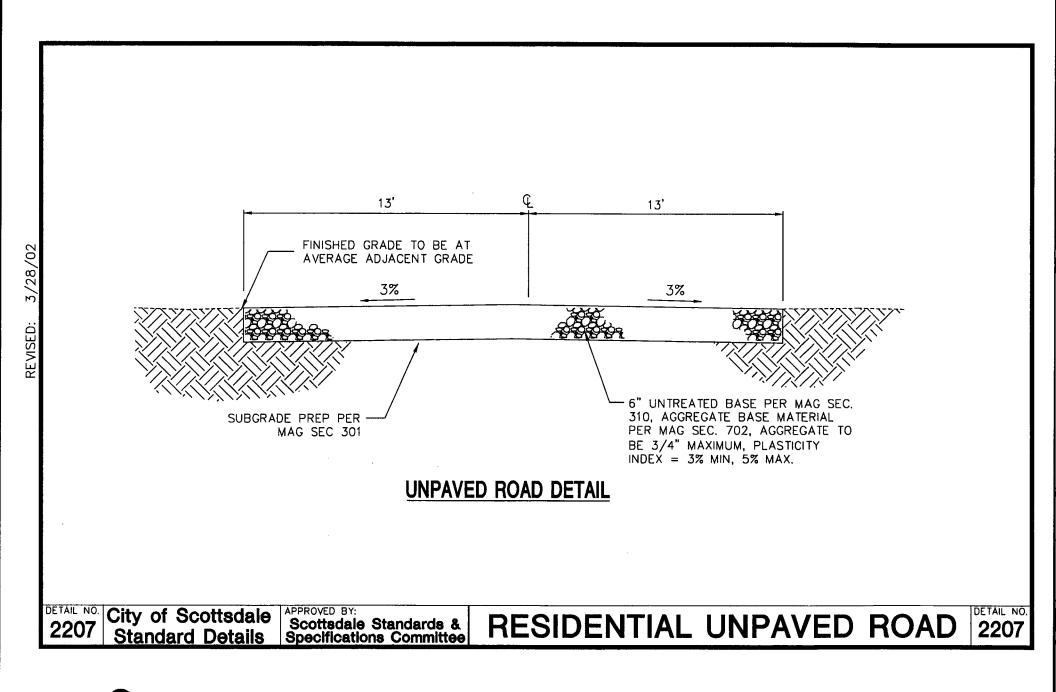
CITY POSTED SPEEDS OF

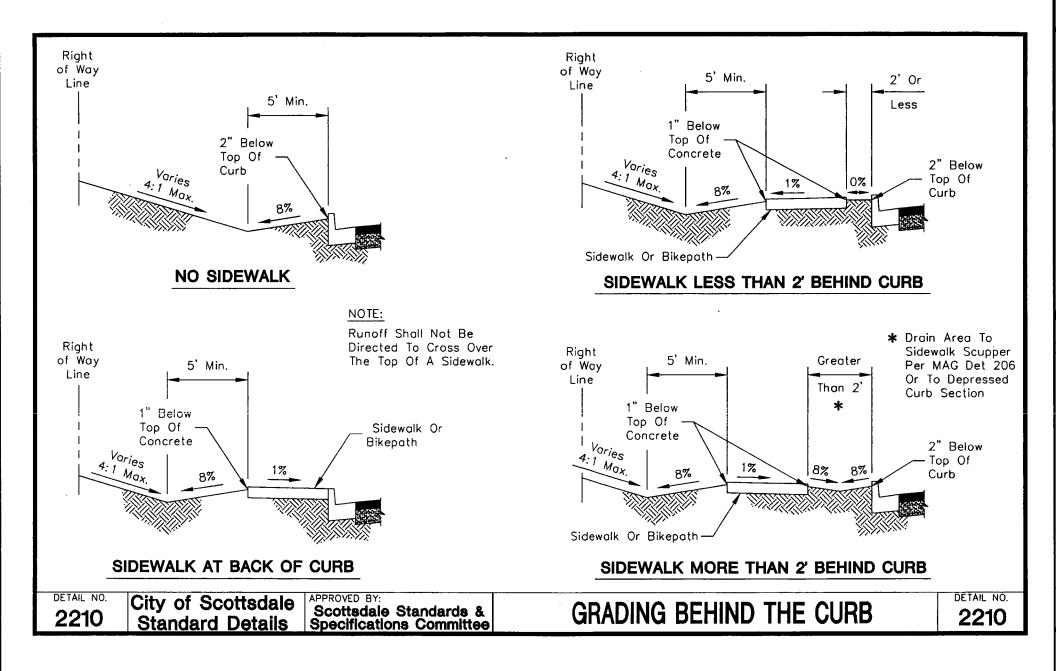
35 MPH AND GREATER

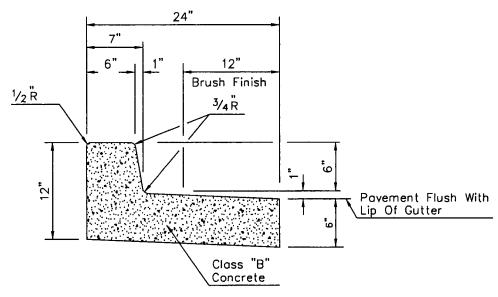
OR BUS & TRUCK ROUTE

Scottsdale Standards & Specifications Committee

TRENCH PLATING





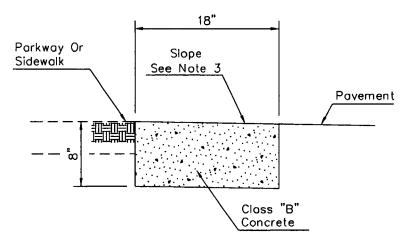


VERTICAL CURB & GUTTER WITH DEPRESSED LIP

TYPE 'A'

NOTES

- 1. All exposed surfaces to be trowel finished except as shown. See M.A.G. Section 340.
- 2. Contraction joint spacing 10' maximum.
- 3. Construct curb and install 1/2" mastic expansion joints, A.S.T.M. D-1751, per M.A.G. Sec. 340 & 729 and COS Sec. 340.
- 4. Colored concrete shall be colored integrally.



RIBBON CURB

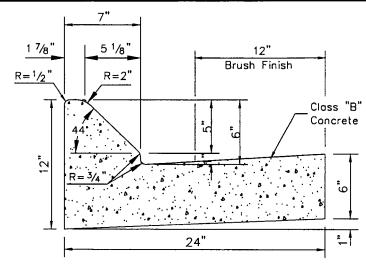
NOTES

- 1. Construct curb and install ¹/₂" mastic expansion joints, A.S.T.M. D-1751, per M.A.G. Sec. 340 & 729 and COS Sec 340.
- 2. Broom finish all surfaces.
- Ribbon curb may slope towards pavement or parkway. Match cross slope of road unless indicated otherwise on plans.
- 4. Contraction joint spacing 10' maximum.
- 5. Colored concrete shall be colored integrally.

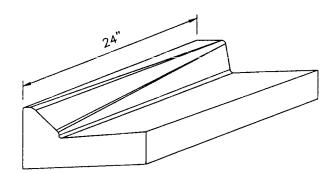
2220 City of Scottsdale Standard Details

APPROVED BY:
Scottsdale Standards &
Specifications Committee

CURB AND GUTTER - TYPES A & B

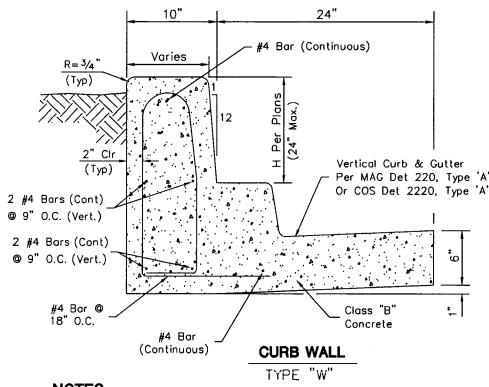


MOUNTABLE/MEDIAN CURB & GUTTER TYPE "M"



MOUNTABLE CURB TO VERTICAL CURB TRANSITION

2221 City of Scottsdale Scottsdale Standards & Specifications Committee

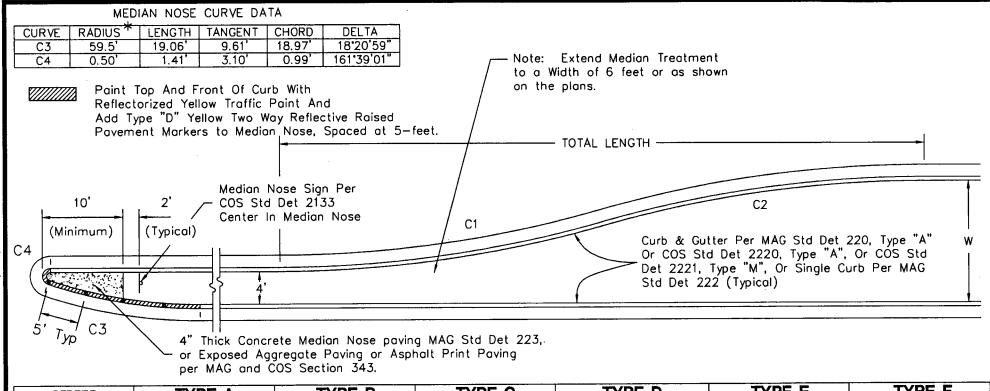


NOTES

- All exposed surfaces to be trowel finished except as shown. See M.A.G. Section 340.
- 2. Contraction joint spacing 10' maximum.
- 3. Construct curb and install $\frac{1}{2}$ mastic expansion joints, A.S.T.M. D-1751, per M.A.G. Sec. 340 & 729 and C.O.S. Sec. 340.
- 4. Gutter lip may be depressed where indicated on plans and constructed as shown on COS Detail 2220, Type "A".
- 5. Colored concrete, if called for on the plans, shall be colored integrally.
- 6. Steel reinforcement Per M.A.G. Section 727.

CURB & GUTTER - TYPES M & W





STREET	TYP	EA		E B		EC	TYP			EE		EF
CLASSIFICATION	COLLECTO	R STREET	MINOR A	RTERIAL	MAJOR A	ARTERIAL	DUAL LEFT	TURN LANES	MINOR A		MAJOR /	
TOTAL LENGTH	80.	49'	98.	89'	114	.36'	164	.53'	103	.23'	153	.62'
MEDIAN WIDTH, W	15	5'	15	5'	1:	5	2	7'	16	5'	2	4'
CURVE NUMBER	C1	C2	C1	C2	C1	C2	C1	C2	C1	C2	C1	<u>C2</u> 300.00'
RADIUS *	150.00'	150.00	150.00	300.00'	300.00'	300.00	300.00	300.00'	150.00	300.00'	300.00'	
DELTA	15'33'49"	15*33'49"	12'41'40"	12*41'40"	10'59'17"	10'59'17"	15'54'56"	15'54'56"	13'15'41"	1315'41"	14'50'06"	14'50'06"
LENGTH	40,75	40.75	33.23'	66.47'	57.53'	57.53'	83.33'	83.33'	34.72'	69.44'	77.68'	77.68
TANGENT	20.50	20.50'	16,69'	33,37'	28.86'	28,86'	41.94	41,94	17,44'	34.87	39.06	39.06
CHORD	40.62	40.62	33,17'	66.33'	57.45'	57.45'	83.07	83.07	34,64	69.28'	83.07	83.07'

* ALL RADII AND DIMENSIONS TO BACK OF CURB

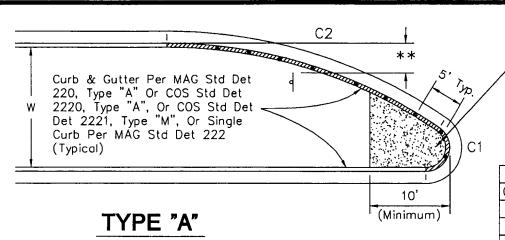
NOTE: Curve Data Shown Is For Streets On Linear Alignments Only.

DETAIL NO. 2225

City of Scottsdale Standard Details

APPROVED BY:
Scottsdale Standards &
Specifications Committee

MEDIAN NOSE & REVERSE CURVE DETAILS



_4" Thick Concrete
Median Nose Paving
MAG Std Det 223, or
Exposed Aggregate Paving
or Asphalt Print Paving
per MAG and COS Section
343 (Typical)

- * ALL RADII AND DIMENSIONS TO BACK OF CURB
- ** OFFSET TO BE NO MORE THAN 3' FROM FACE OF CURB AT TANGENT TO EDGE OF SIGN

* CURVE DATA - W=15'									
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA				
C1	2.50'	6.35'	8.06'	4.78'	145*32'39"				
C2	59.50'	35.78'	18.45'	35.24	34*27'21"				
C3	2.50'	5.74	5.57'	4.56'	131°38'42"				
C4	59.50'	25.11	12.74	24.92'	24'10'39"				

∗CURVE DATA - W=16'									
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA				
C1	2.50'	6.27	7.65'	4.75'	143'48'20"				
C2	59.50'	37.59	19.44'	36.97	36 ° 11'40"				
С3	2.50'	5.64	5.27'	4.52'	129*14'46"				
C4	59.50'	26.35'	13.40'	26.14'	25*22'37"				

*CURVE DATA - W=24'						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA	
C1	2.50'	5.75'	5.59'	4.56'	131°48'37"	
C2	59.50'	50.04	26.61'	48.58'	48'11'23"	
С3	2.50'	4.93'	3.77'	4.17'	112*53'08"	
C4	59.50'	34.85'	17.94'	34.35'	33'33'26"	

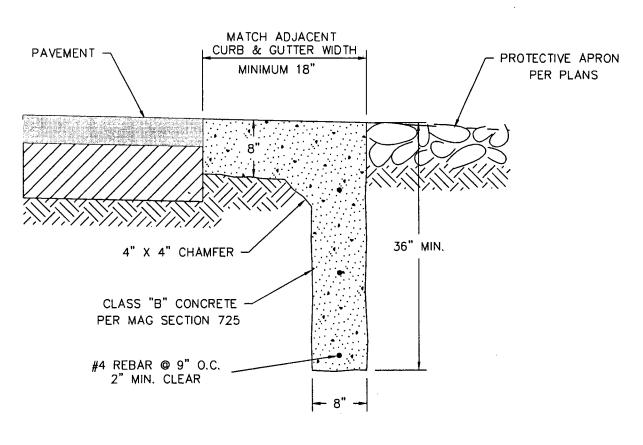
Paint Top And Front Of Curb With Reflectorized Yellow Traffic Paint And Add Type "D" Yellow Reflective Raised Pavement Markers to Median Nose Nose, Spaced at 5—feet.

	I	C4	
W	Median Nose Sign Per — COS Std Det 2133 (Typical)	C3	
	YUISIIIISIIII	C4 100:	
	TYPE "B"	C4 5' Typ. 10' (Minimum)	

2226 City of Scottsdale Standard Details

APPROVED BY:
Scottsdale Standards &
Specifications Committee

MEDIAN NOSE DETAILS



NOTE: Form The Top 8" Of Cut-Off Wall

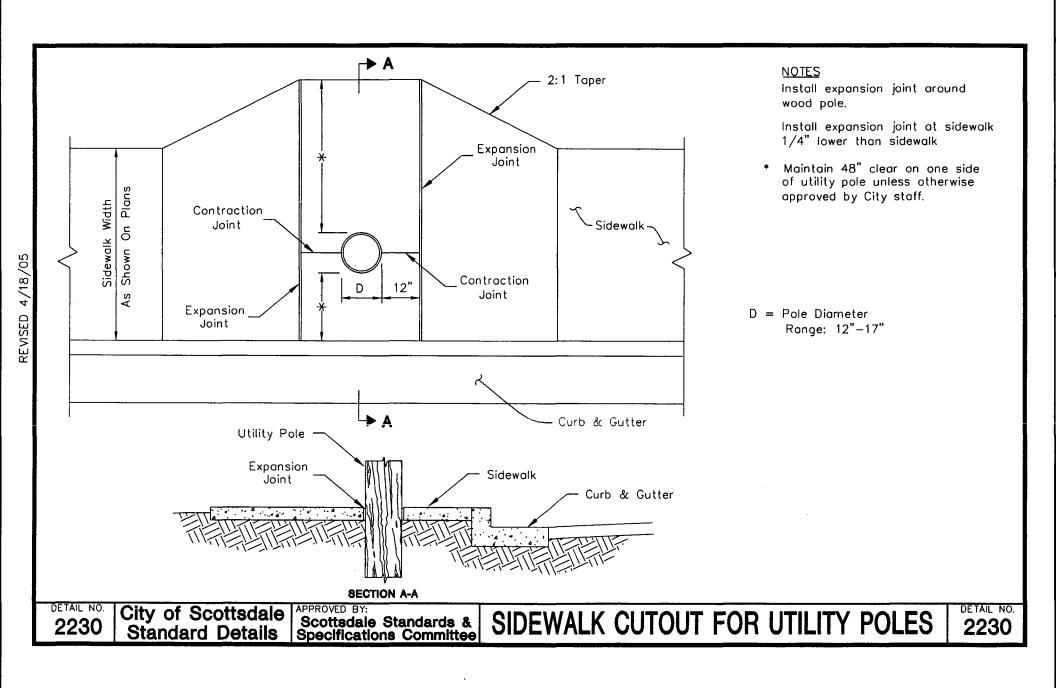
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City of Scottsdale Standard Details

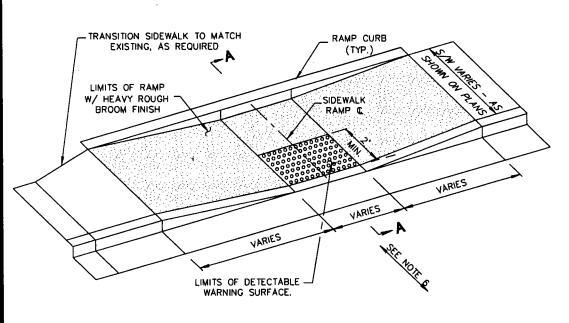
APPROVED BY:

Scottsdale Standards & Specifications Committee

CUT-OFF WALL



2231



APPROVED BY:

Scottsdale Standards & Specifications Committee

City of Scottsdale

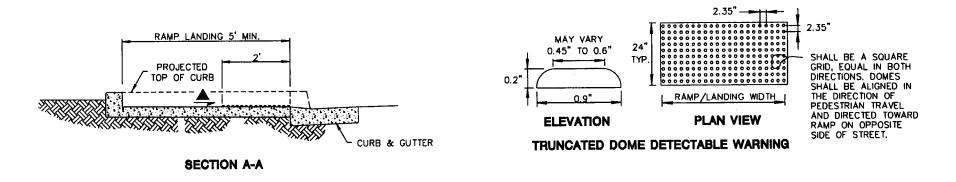
Standard Details

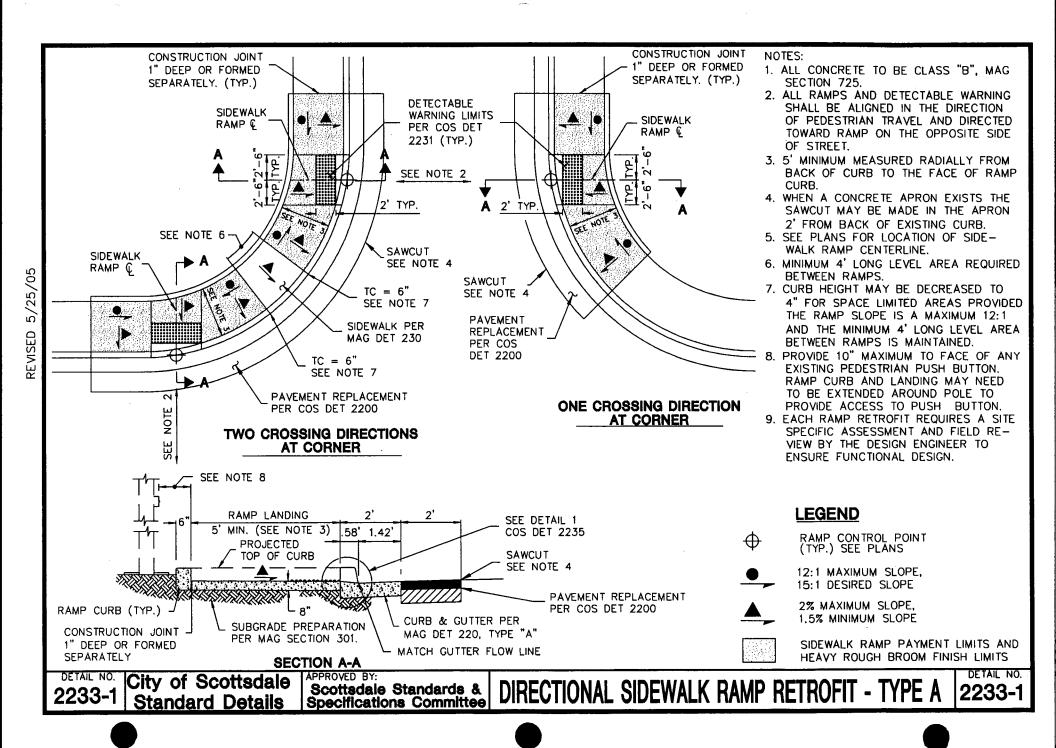
NOTES

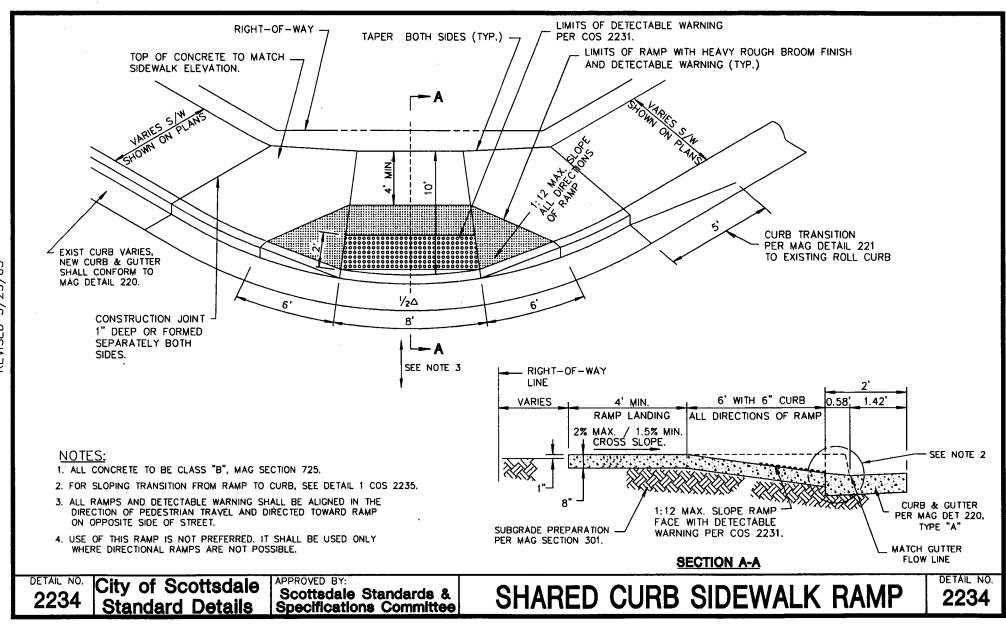
DETECTABLE WARNING SURFACE

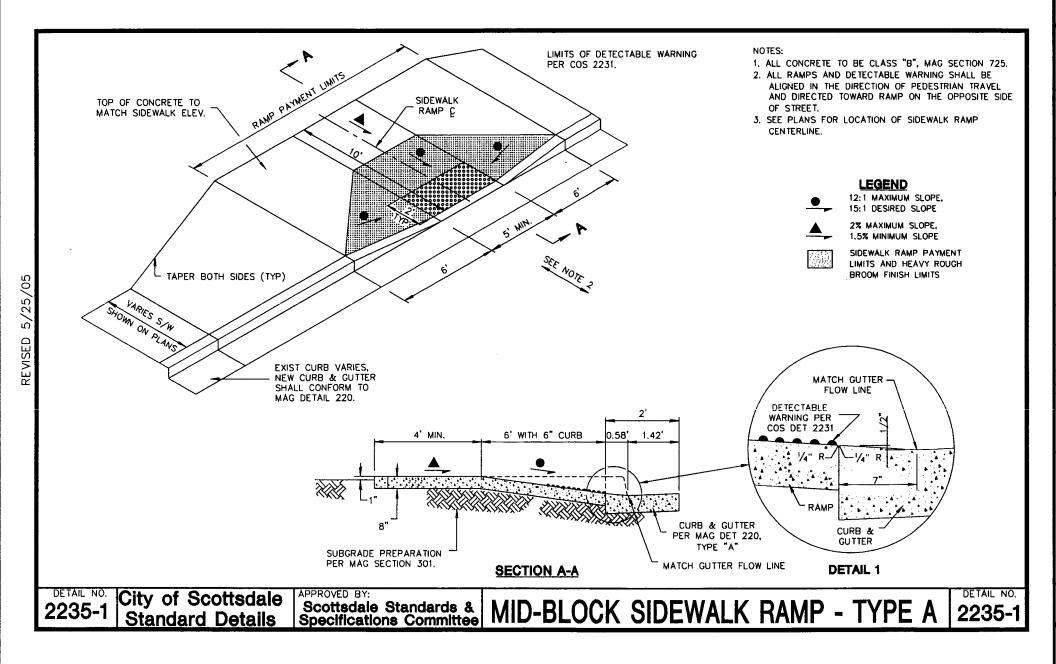
- 1. DETECTABLE WARNING SHALL CONSIST OF RAISED TRUNCATED DOMES MANUFACTURED BY "COTE-L INDUSTRIES, INC.". CALLED "SAFTI-TRAX", WITH POLYURETHANE COATING "DURABAK", OR APPROVED EQUAL, APPLIED ON SMOOTH (NON-GROOVED) CLEAN CONCRETE RAMP, AND SHALL CONFORM TO THE DETAILS IN THE PLANS AND IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.
- 2. ALL DETECTABLE WARNING AREAS SHALL START AT BACK OF CURB, BE 24 INCHES IN DEPTH AND COVER THE COMPLETE WIDTH OF THE RAMP AREA 48 INCHES MIN.
- 3, 70% VISUAL CONTRAST IS REQUIRED. THE COLOR SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING MATERIAL, AS SPECIFIED ON THE PLANS. COLOR TO BE DETERMINED BY THE CITY STAFF, SAFETY YELLOW IS THE DEFAULT COLOR.
- 4. THE SMOOTH AND CLEAN CONCRETE UNDER DETECTABLE WARNING DEVICE AREA SHALL BE INCLUDED IN THE COST OF THE CONCRETE CURB RAMP. THE COST OF FURNISHING AND INSTALLING THE DETECTABLE WARNING DEVICE SHALL BE INCLUDED SEPARATELY AS "DETECTABLE WARNING DEVICE" PER SQUARE FOOT OR AS OUTLINED IN THE SPEC-IFICATIONS.
- 5. DETECTABLE WARNING SURFACE:
 APPLIED A COATING OF "DURABAK" SLIP-RESISTANT POLYURETHANE COATING TO THE
 SMOOTH, CLEAN CONCRETE SURFACE. ON TOP OF THE POLYURETHANE COATING APPLY
 TRUNCATED DOMES FROM A "SAFTY-TRAX" CONTACT SHEET. ON TOP OF THE TRUNCATED DOMES AND INITIAL POLYURETHANE COATING PLACE THREE ADDITIONAL COATS
 OF "DURABAK" POLYURETHANE COATING. COLOR TO BE DETERMINED BY CITY STAFF
 OR AS SPECIFIED ON THE PLANS. SAFETY YELLOW IS A DEFAULT COLOR.
- ALL RAMPS AND DETECTABLE WARNING SHALL BE ALIGNED IN THE DIRECTION OF PED-ESTRIAN TRAYEL AND DIRECTED TOWARD RAMP ON THE OPPOSITE SIDE OF STREET.

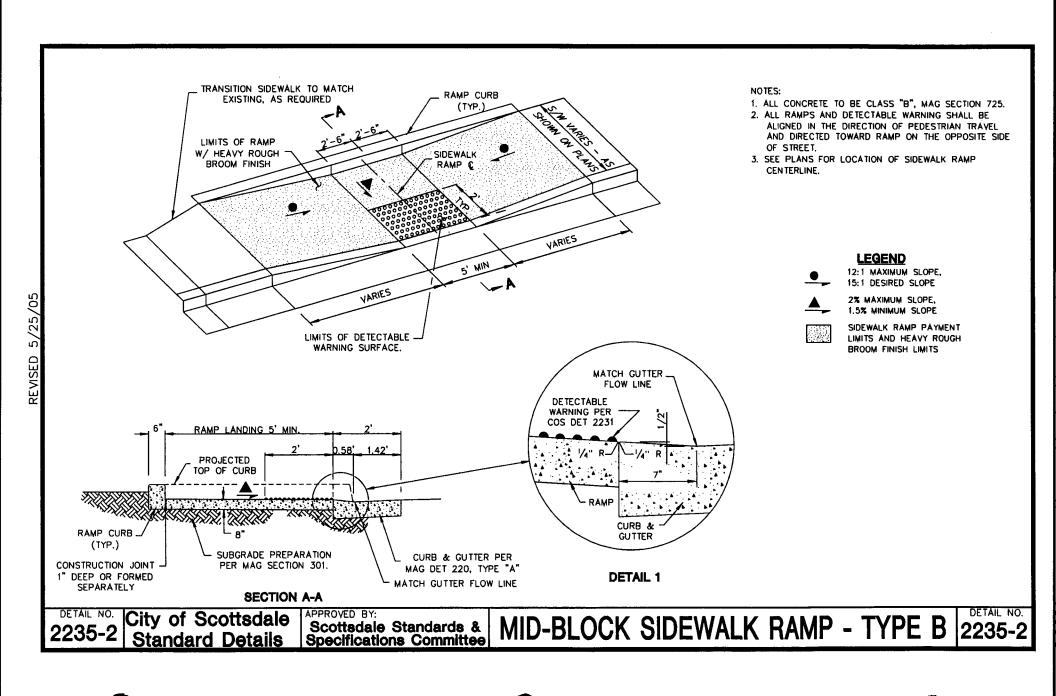
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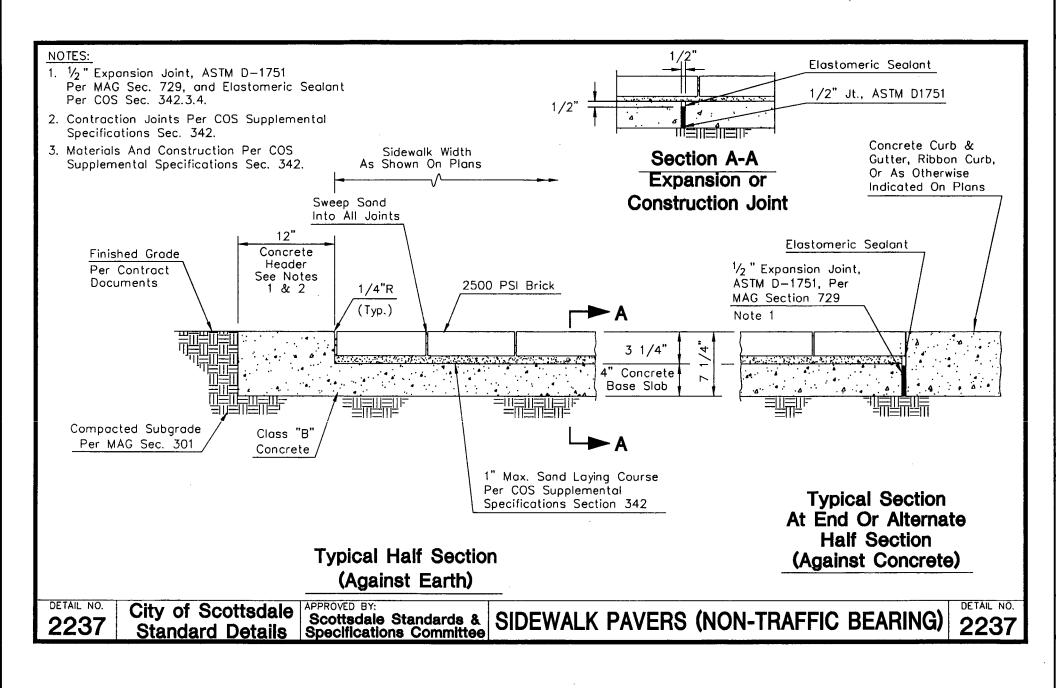


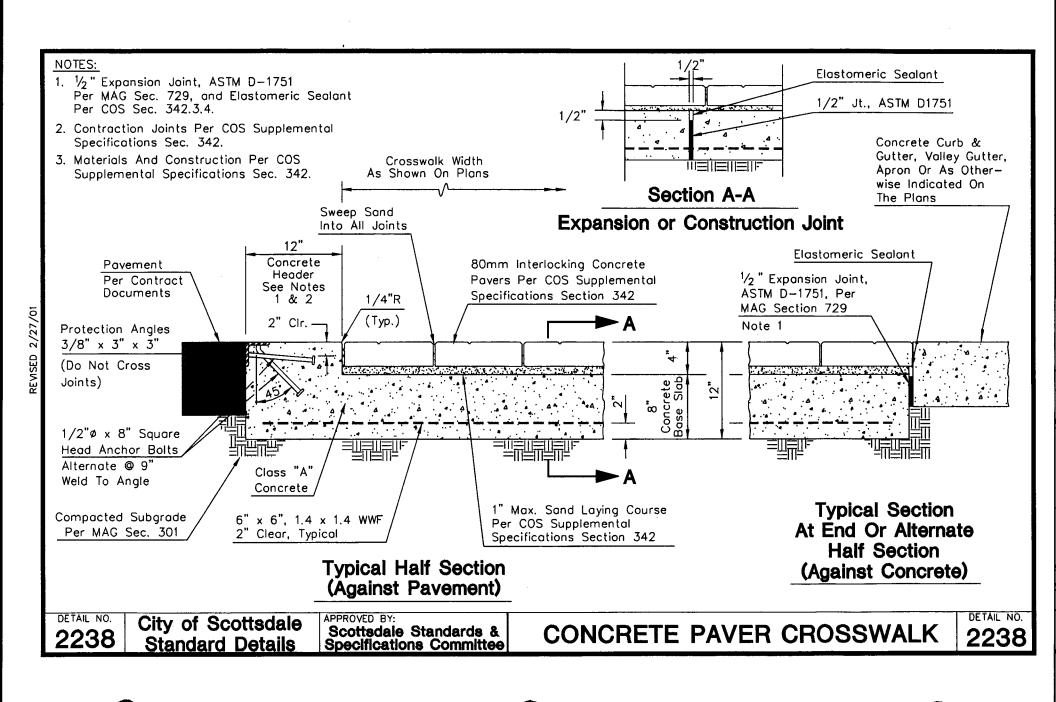


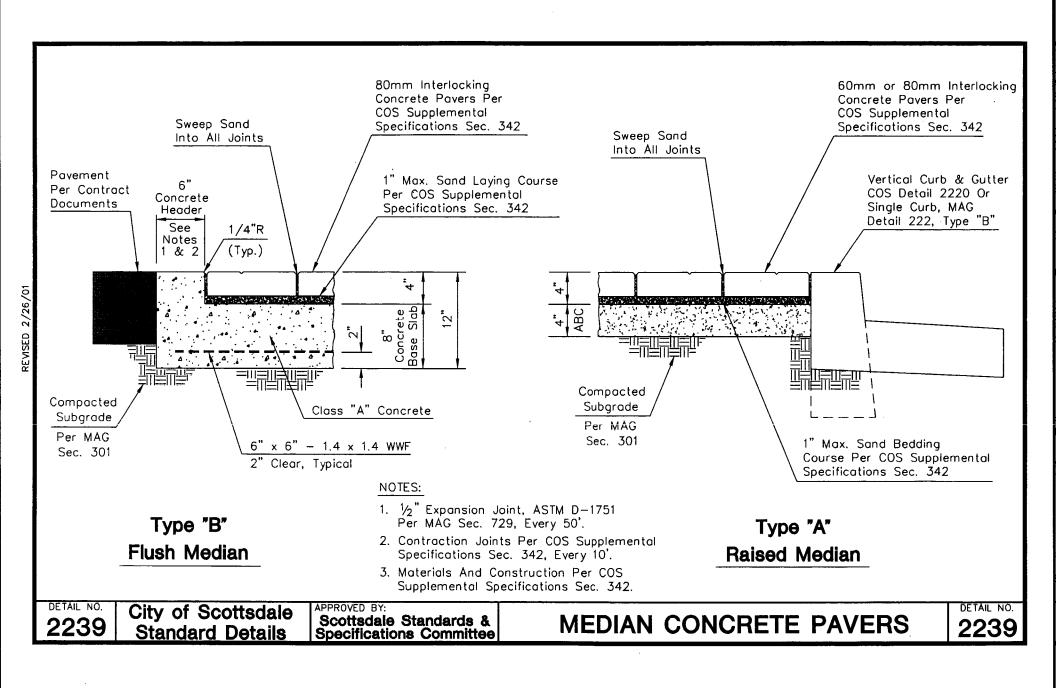


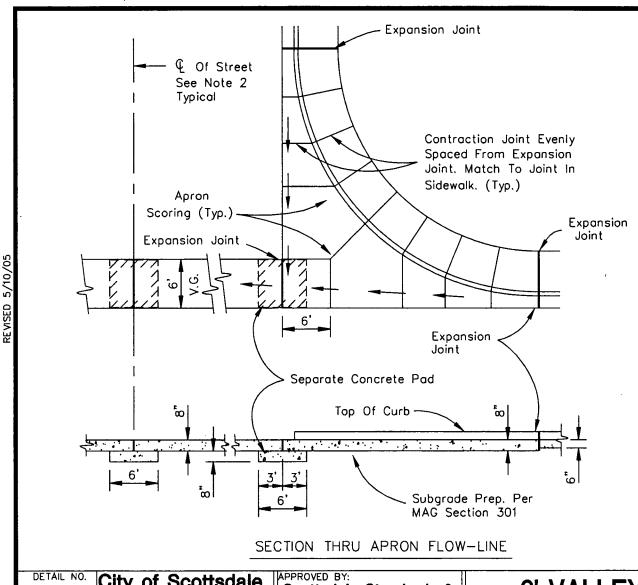






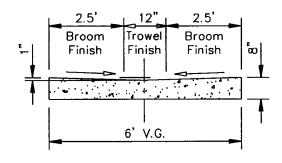






NOTES

- 1. All Concrete To Be Class "A", MAG Section 725.
- 2. Use A Construction Joint Or Contraction Joint At The C Of Street. A Separate Concrete Pad Is Required With A Construction Joint.
- 3. 1/2" Expansion Joint, ASTM D-1751 Per MAG Section 729.
- 4. Return Curb and Sidewalk to be Monolithically Poured.



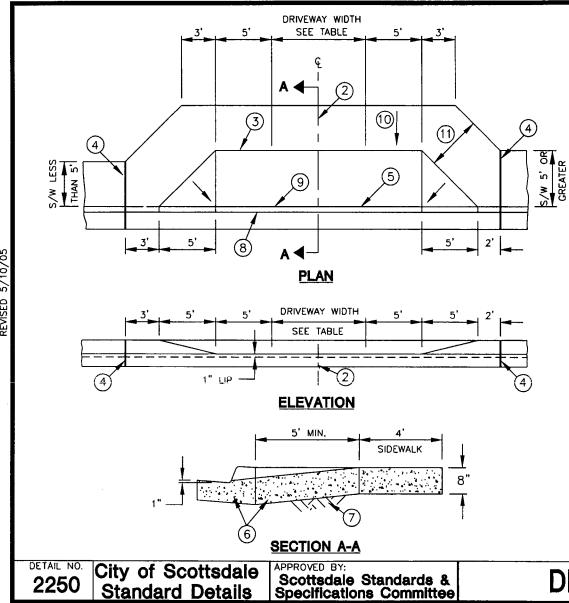
SECTION THRU VALLEY GUTTER

2240

City of Scottsdale Standard Details

Scottsdale Standards & Specifications Committee

6' VALLEY GUTTER & APRON



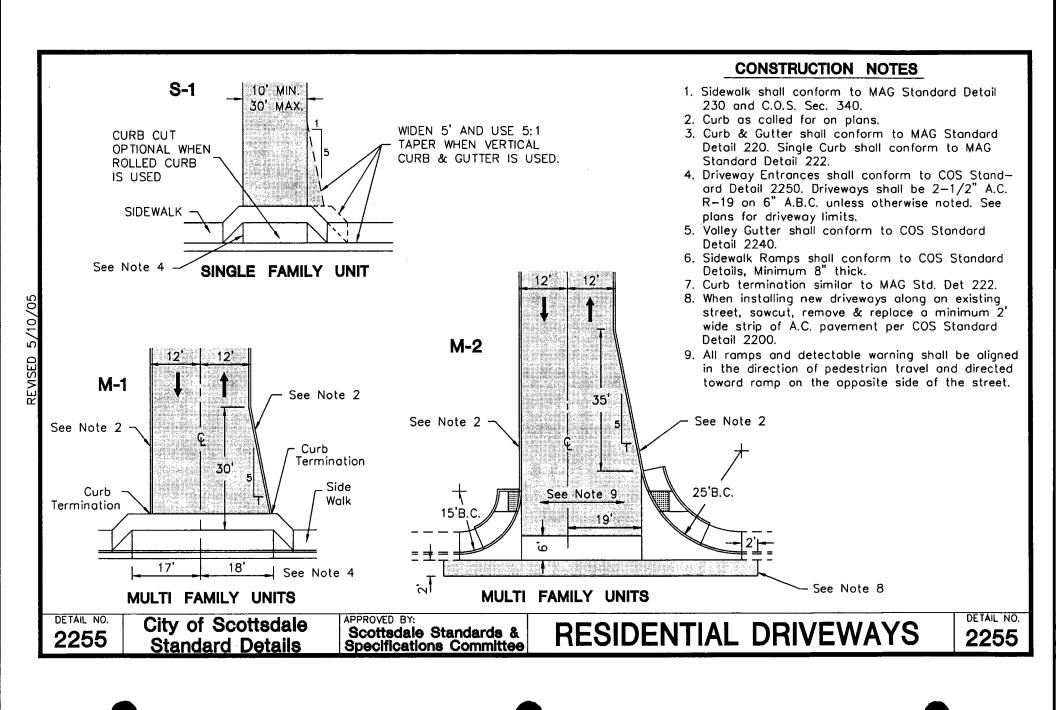
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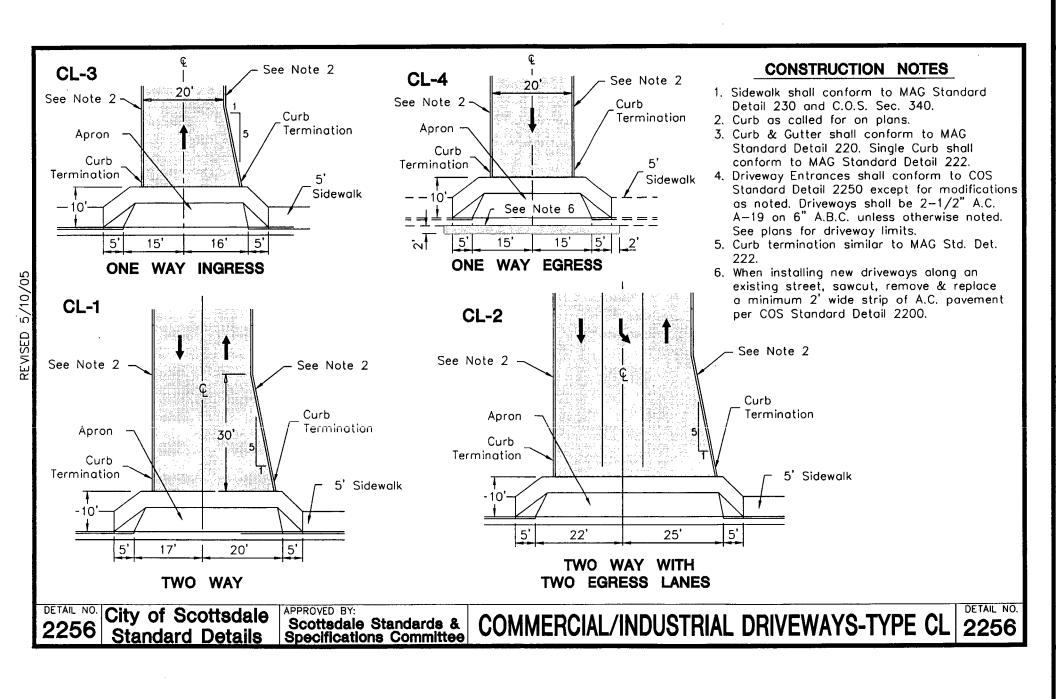
- 1 DEPRESSED CURB SHALL BE PAID FOR AT THE UNIT PRICE BID FOR THE TYPE OF CURB USED AT THAT LOCATION.
- 2 CONTRACTION JOINT ON DRIVEWAY CENTERLINE.
- 3 BACK OF DRIVEWAY ENTRANCE CONSTRUCTION JOINT OR SCORE MARK.
- 4 MASTIC EXPANSION JOINT THROUGH CURB AND GUTTER. EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER A.S.T.M. D-1751.
- 5 BACK OF CURB CONSTRUCTION JOINT OR SCORE MARK.
- 6 CLASS 'B' CONCRETE, MAG SECTION 725.
- 7 SUBGRADE PREPARATION, MAG SECTION 301.
- 8 FLOW LINE OF GUTTER.
- 9 DEPRESSED CURB.
- 10 2% MAXIMUM CROSS SLOPE. 1.5% MINIMUM CROSS SLOPE
- 11 CONCRETE SIDEWALK PER MAG DETAIL 230, MODIFIED. THICKNESS = 8"

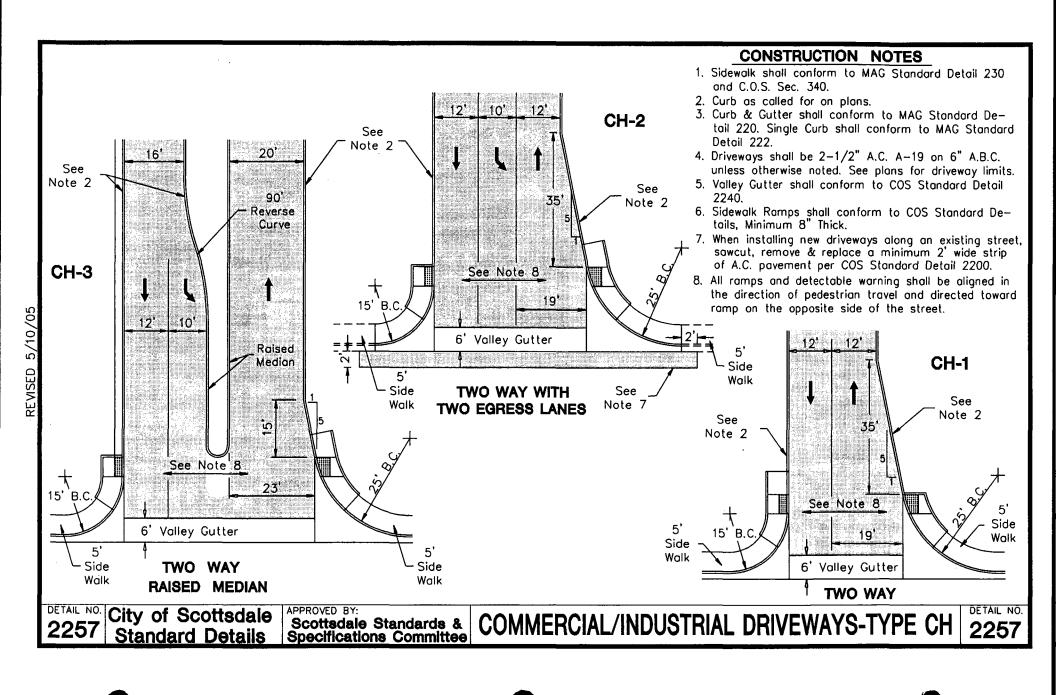
COMMERCIAL & INDUSTRIAL						
DRIVEWAY WIDTH	MIN.	MAX.	CLASS			
COMMERCIAL ZONING	+ 16'	40'	В			
INDUSTRIAL ZONING	+ 16'	40'	В			
+ 24' MIN. FOR TWO WAY TRAFFIC						
RESIDENTIAL						
DRIVEWAY WIDTH	MIN.	MAX.	CLASS			
MAJOR STREET	16'	30'	В			
COLLECTOR STREET	*12'	30'	В			
LOCAL STREET	12'	30'	В			
* 16' DESIRABLE						

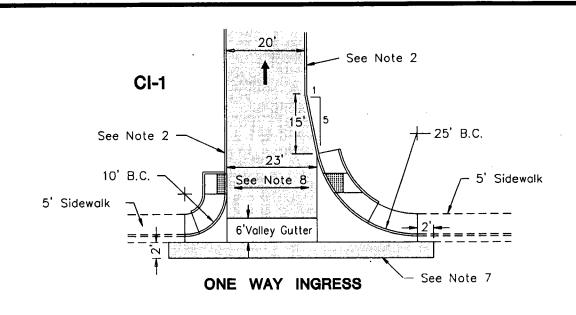
DRIVEWAY ENTRANCES

2250



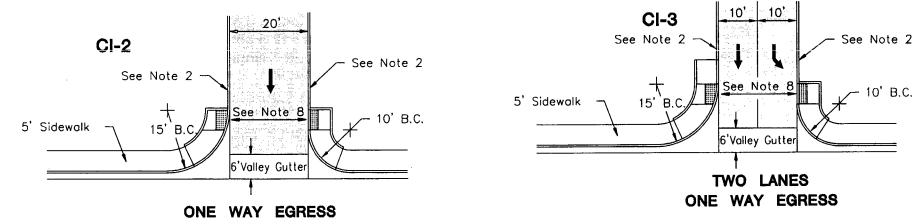






CONSTRUCTION NOTES

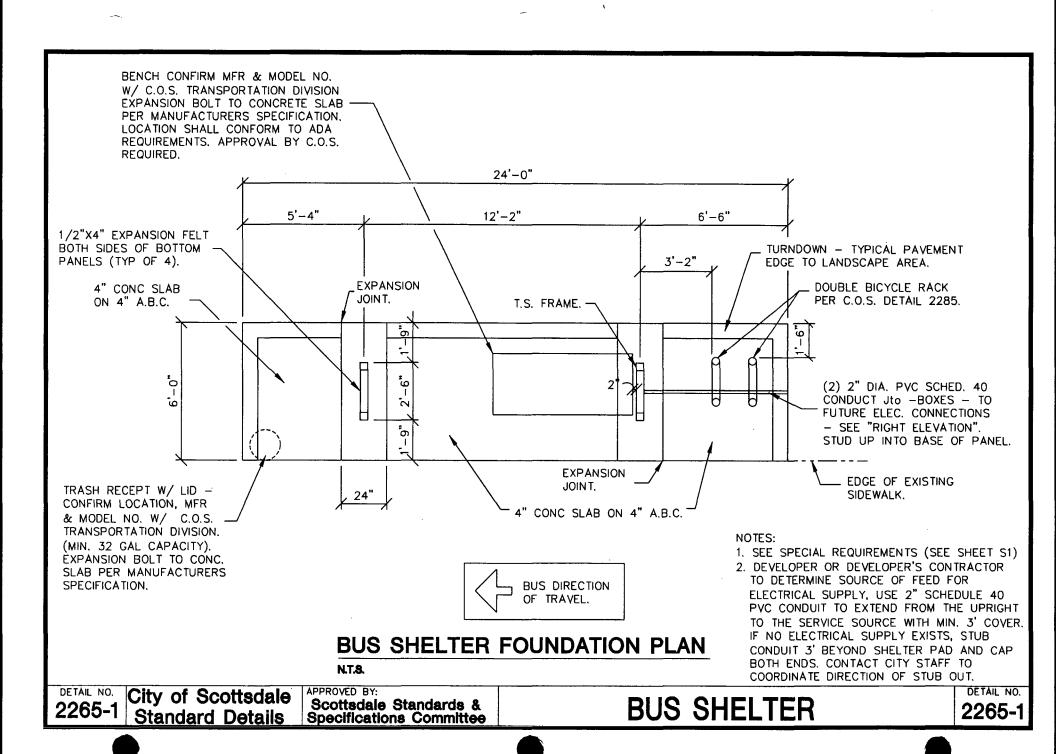
- 1. Sidewalk shall conform to MAG Standard Detail 230 and C.O.S. Sec. 340.
- 2. Curb as called for on plans.
- Curb & Gutter shall conform to MAG Standard Detail 220. Single Curb shall conform to MAG Standard Detail 222.
- 4. Driveways shall be 2-1/2" A.C. A-19 on 6" A.B.C. unless otherwise noted. See plans for driveway limits.
- 5. Valley Gutter shall conform to COS Standard Detail 2240.
- Sidewalk Ramps shall conform to COS Standard Details, Minimum 8" Thick.
- When installing new driveways along an existing street, sawcut, remove & replace a minimum 2' wide strip of A.C. pavement per COS Standard Detail 2200.
- 8. All ramps and detectable warning shall be aligned in the direction of pedestrian travel and directed toward ramp on the opposite side of the street.

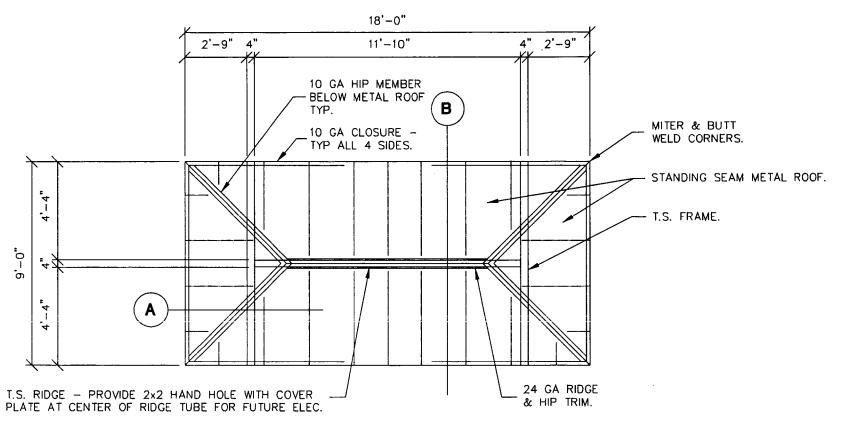


2258 City of Scottsdale Standard Details

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Scottsdale Standards &
Specifications Committee

COMMERCIAL/INDUSTRIAL DRIVEWAYS-TYPE CI





BUS SHELTER FRAMING PLAN

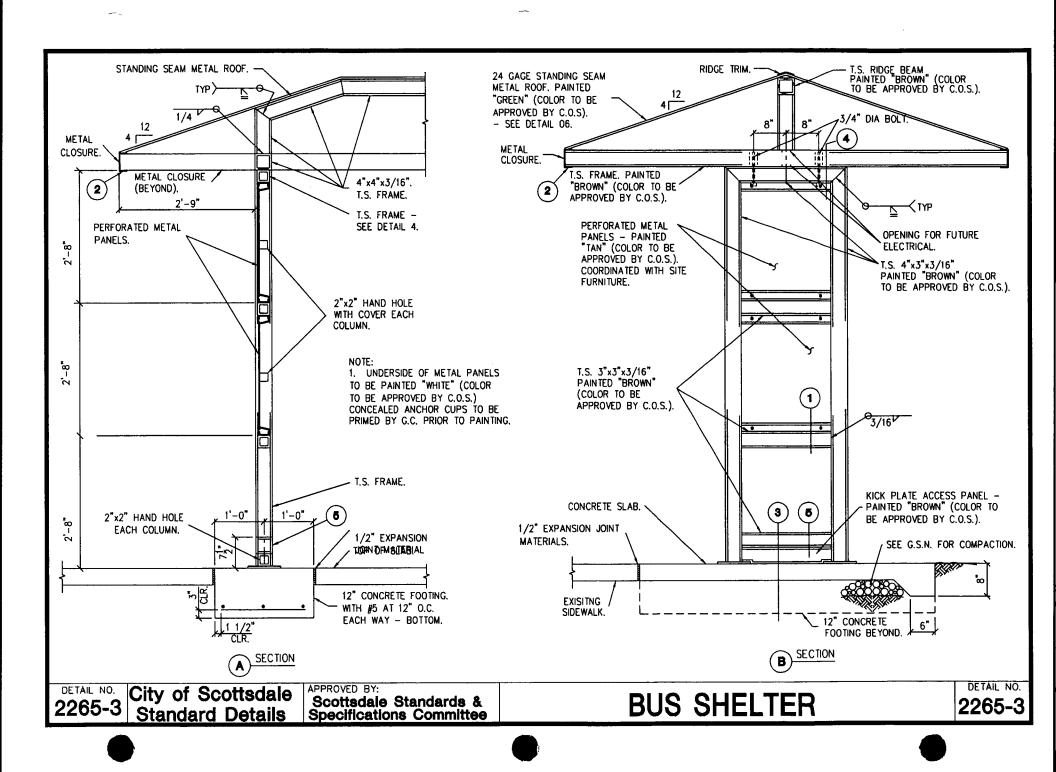
N.T.S.

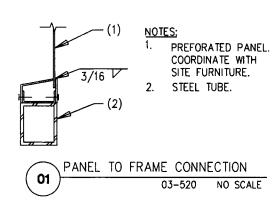
2265-2 City of Scottsdale Standard Details

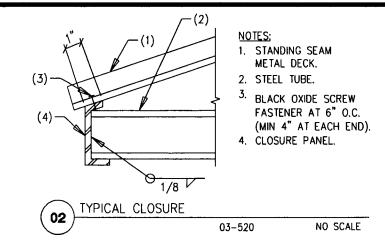
APPROVED BY:
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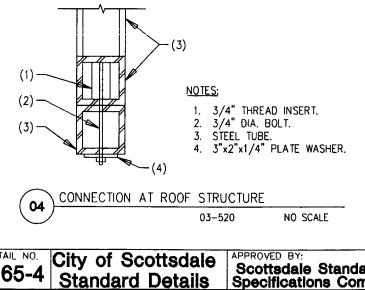
BUS SHELTER

DETAIL NO. 2265-2

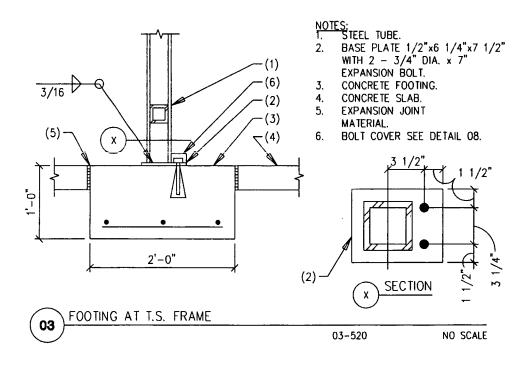






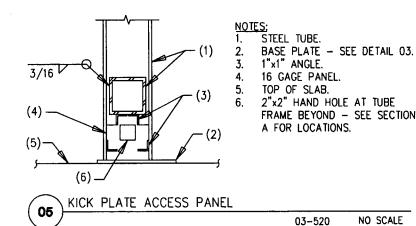


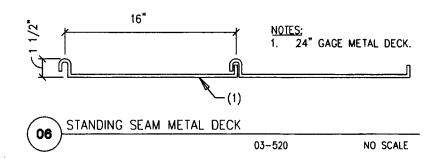
Scottsdale Standards & Specifications Committee

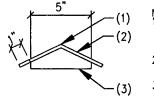


BUS SHELTER

DETAIL NO. 2265-







NOTES:

1. Sy = .058

1x = .0219

Fy = 50 KSI.

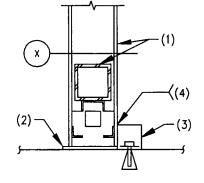
2. 10 GAGE HIP MEMBER BELOW

METAL ROOF - TYP.

22 GAGE METAL SNAP COVER PLATE - CREASE MIDDLE: TRIM EDGES TO FIT END CONDITIONS.

METAL COVER PLATE

03-520 NO SCALE



BOLT COVER

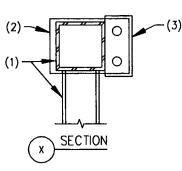
1. STEEL TUBE.
2. BASE PLATE.
3. 16 GAGE METAL COVER.
4. TACK WELD.

NOTE:
FOR INFORMATION
SHOWN BUT NOT

NOTES:

SHOWN BUT NOT NOTED SEE DET 05.

03 - 520



NO SCALE

DETAIL NO.

City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

BUS SHELTER

2265-5

GENERAL STRUCTURAL NOTES

BUILDING CODE:

2003 EDITION OF THE UNIFORM BUILDING CODE, WITH CITY OF SCOTTSDALE AMENDMENTS. LOADS:

LATERAL:

WIND LOAD = 90 MPH WIND SPEED, EXPOSURE C. SEISMIC ZONE 2B (Z = 0.075)

FOUNDATIONS:

COMPACT SUB GRADE AND BASE MATERIAL TO 95% OF THE ASTM D698 MAXIMUM DRY DENSITY, CONCRETE:

MINIMUM 28 DAY STRENGTH 3,000 PSI

ALL CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE ACI, FOR CONCRETE WITHOUT PLASTICIZER, MAXIMUM SLUMP 4 1/2" AT POINT OF PLACEMENT U.N.O. IF PLASTICIZER IS USED, A HIGHER FINAL SLUMP MAY BE ALLOWED UPON STRUCTURAL ENGINEER'S APPROVAL.

REINFORCING:

ALL REINFORCING PER CRSI SPECIFICATIONS AND HAND-BOOK. ASTM A615 (Fy = 60 KSI/GRADE 60) DEFORMED BARS FOR ALL BARS.

ALL REINFORCING SHALL BE CHAIRED TO ENSURE PROPER CLEARANCES. SUPPORT OF FOUNDATION REINFORCING MUST PROVIDE ISOLATION FROM MOISTURE CORROSION BY USE OF A PLASTIC OR CONCRETE CHAIR. DUCT-TAPE COVERED REINFORCING IS NOT AN ACCEPTABLE CHAIR.

ALL DIMENSIONS REFERENCED IN DRAWINGS AS "CLEAR' SHALL BE FROM FACE OF STRUCTURE TO EDGE OF REINFORCING, AND SHALL NOT BE LESS THAN STATED, NOR GREATER THAN "CLEAR" DIMENSION PLUS 3/8". ALL OTHERS SHALL BE PLUS OR MINUS 1/4" TYPICAL UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL:

ALL CONSTRUCTION PER LATEST AISC HANDBOOK, ALL TUBE STEEL SHALL BE ASTM A500(Fy=46 KSI). ALL MISCELLANEOUS STEEL UNLESS NOTED OTHERWISE SHALL BE ASTM A36 (Fy = 36 KSI).

UNLESS NOTED OTHERWISE, ALL WELDS PER LATEST EDITION OF THE AWS STANDARDS. ALL WELDING SHALL BE PERFORMED BY WELDERS HOLDING VALID CERTIF—ICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES. CERTIFICATES SHALL BE THOSE ISSUED BY AN ACCEPTED

STRUCTURAL STEEL: CONT'D

TESTING AGENCY. ALL WELDING DONE BY E70 SERIES LOW HYDROGEN RODS UNLESS NOTED OTHERWISE. FOR GRADE 60 REINFORCING BARS, USE E90 SERIES. THESE DRAWINGS DO NOT DISTINGUISH BETWEEN SHOP AND FIELD WELDS; THE CONTRACTOR MAY SHOP WELD OR FIELD WELD AT THEIR DISCRETION. SHOP WELDS AND FIELD WELDS SHALL BE SHOWN ON THE SHOP DRAWINGS SUBMITTED FOR REVIEW.

ALL STANDING SEAM DECK SHALL CARRY A U.L. 90 UPLIFT RATING. INSTALLATION SHALL CONFORM TO STANDARDS SET FORTH IN THE ARCHITECTURAL SHEET METAL MANUAL PUBLISHED BY SMACNA.

WELDERS EXPERIENCED IN LIGHT GAGE STEEL DECK WORK SHALL PERFORM ALL WELDING. DECK WELDING MAY BE ACHIEVED WITH E60 SERIES NON LOW HY-DROGEN RODS OR E70 SERIES LOW HYDROGEN RODS.

SCREWS WHERE INDICATED SHALL BE #12-24 TRAXX PER ICBO 3056 OR APPROVED EQUIVALENT.

SHOP DRAWINGS:

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCT-URAL ITEMS.

THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON CONTRACTOR'S REVIEW.

MANUFACTURER OR FABRICATOR SHALL CLOUD ANY CHANGES. SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DOCUMENTS. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW, UNLESS NOTED ACCORDINGLY.

THE ENGINEER HAS THE RIGHT TO APPROVE OR DIS-APPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANYTIME BEFORE OR AFTER SHOP DRAWING REVIEW.

THE SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT SHALL NOT BE CONSIDERED CHANGES TO CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ITEMS ARE CONSTRUCTED TO CONTRACT DOCUMENTS. THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY.

SHOP DRAWINGS: CONT'D

REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS.
RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR.

SPECIAL REQUIREMENTS

- 1. AN ARTIST-DESIGNED SHELTER MAY BE SUBSTITUTED FOR STANDARD SHELTER BY APPROVAL OF THE CITY OF SCOTTSDALE TRANSIT SECTION. HOWEVER, IT MUST INCORPORATE ALL THE FUNCTIONAL ELEMENTS INCLUDED IN THE STANDARD SHELTER. SEE TRANSIT & DESIGN REVIEW STAFF FOR DETAILS.
- 2. STANDARD BUS STOP SIGN LOCATION, NEW OR RELOCATED SIGNS SHALL BE APPROVED BY THE TRAFFIC/TRANSIT STAFF.
- 3. ADDITIONAL REQUIREMENTS MAY INCLUDE:

A) LEANING RAIL.

- B) LED REAL TIME BUS INFORMATION SIGN.
- C) BUS ROUTE/TRAFFIC INFORMATION KIOSKS.
- D) PEDESTRIAN RAILING AROUND THE BACK OF SHELTER ADJACENT TO STEEP SLOPES OR DROP-OFFS.
- 4. CITY OF SCOTTSDALE TRANSIT BUS SHELTERS SHALL BE PROVIDED WITH A GROUNDING SYSTEM THAT MAY CONSIST OF ONE OF THE FOLLOWING METHODS:

 A) 25 FEET OF #4 STANDARD COPPER (UNINSULATED) INSTALLED IN THE BASE OF ONE OF THE UPRIGHT FOUNDATIONS. THE GROUNDING CONDUCTOR WILL EXTEND OUT OF THE POURED CONCRETE FOUNDATION WITH A LENGTH NOT TO EXCEED 3 FEET. THE GROUNDING CONDUCTOR WILL BE WRAPPED IN A CLOCKWISE ROTATION, ONE WRAP, AROUND ON THE THE UPRIGHT ANCHOR BOLTS. A FLAT FENDER WASHER WILL BE INSTALLED ON TOP OF THE CONDUCTOR WITH THE ANCHOR BOLT NUT ON TOP OF THE FLAT WASHER AND SECURED.

 B) A SECOND METHOD WILL CONSIST OF A 5/8"x 8'-0"

GROUND ROD DRIVEN IN THE ELECTRICAL PULLBOX AD—
JACENT TO THE BUS SHELTER. A GROUND ROD TERMINAL
NUT (ACORN NUT) WILL BE INSTALLED ON TOP OF THE
GROUND ROD SECURING A #8 AWG BARE SOLID COPPER
WIRE. THE GROUND WIRE WILL BE INSTALLED FROM THE
JUNCTION BOX, UNBROKEN AND UNSPLICED, TO THE BUS
SHELTER UPRIGHT WHERE IT WILL BE TERMINATED. A SET
—SCREW TERMINAL LUG WILL BE FASTENED TO THE
STRUCTURE UPRIGHT UNDER THE BOTTOM KICKPANEL. THE
AREA UNDER THE TERMINAL LUG WILL BE CLEANED OF ALL
RUST, SCALE AND PAINT. THE #8 BARE BOND CONDUCTOR
WILL BE TERMINATED IN THE SET—SCREW TERMINAL LUG.

BOTH GROUNDING METHODS WILL BE DONE IN ACCORDANCE WITH ARTICLE 250 OF NATIONAL ELECTRICAL CODE.

I DETAIL NO.

DETAIL NO.

City of Scottsdale Standard Details

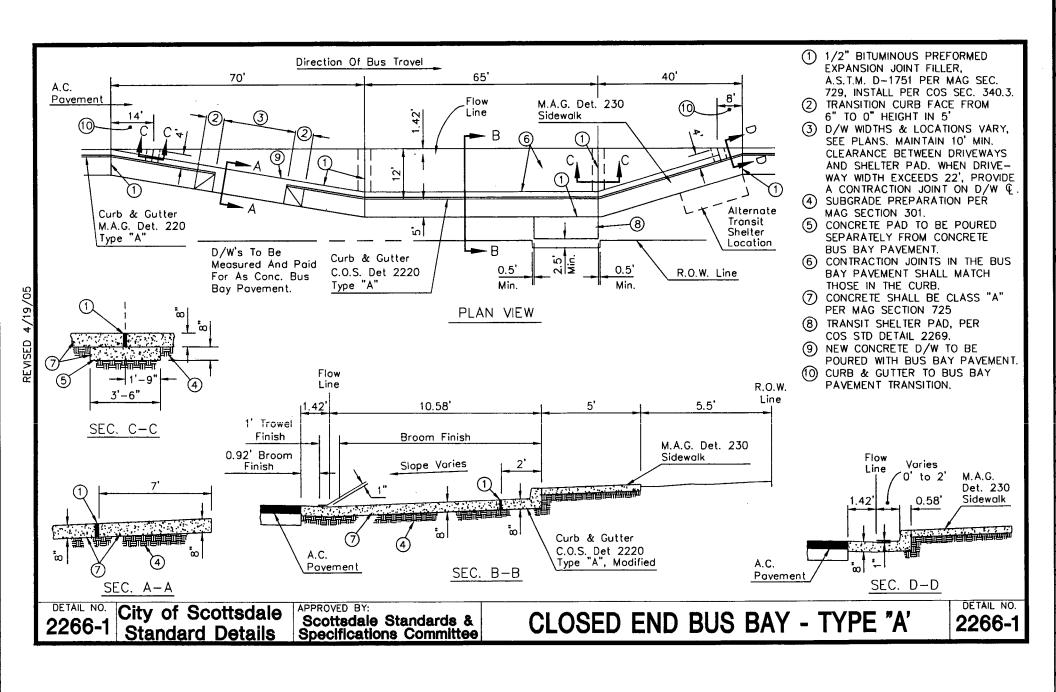
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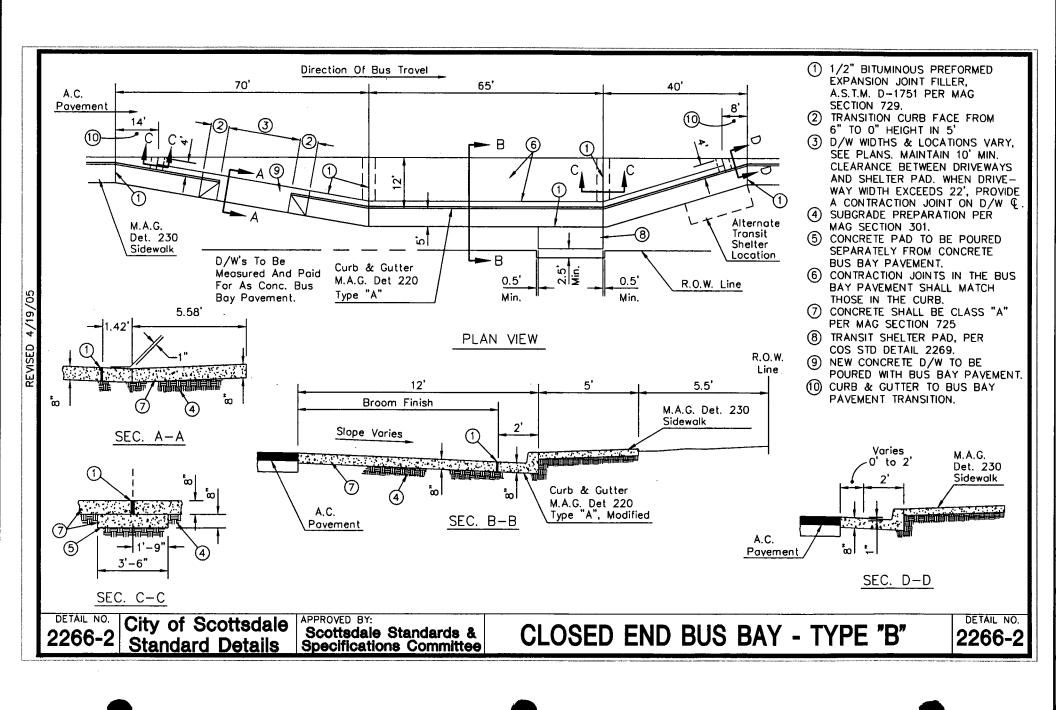
Scottsdale Standards & Specifications Committee

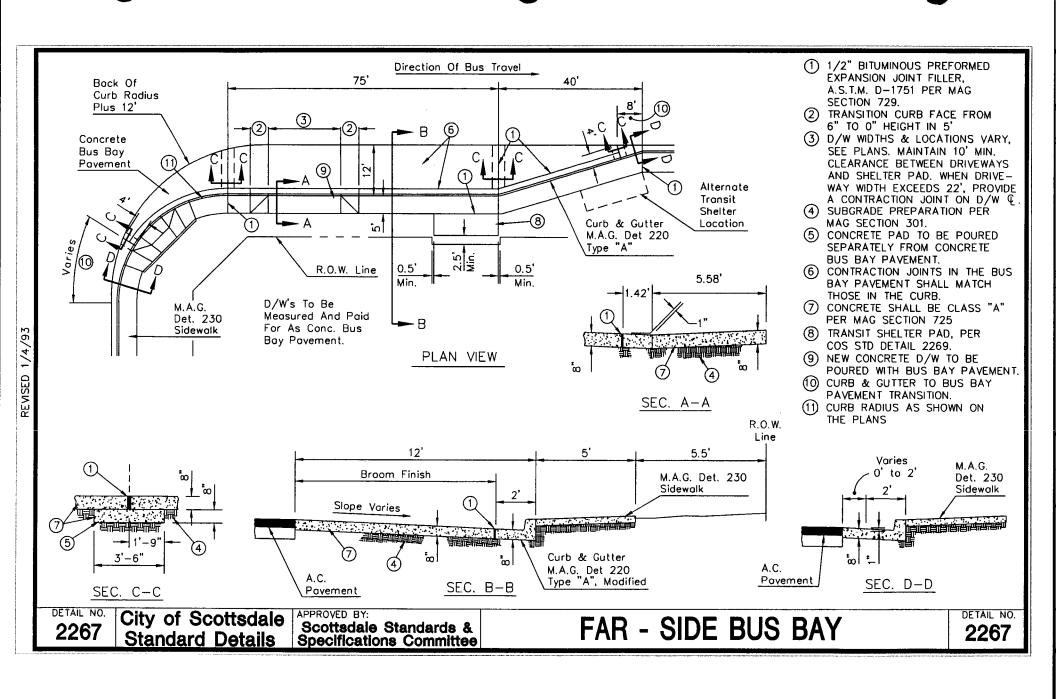
BUS SHELTER

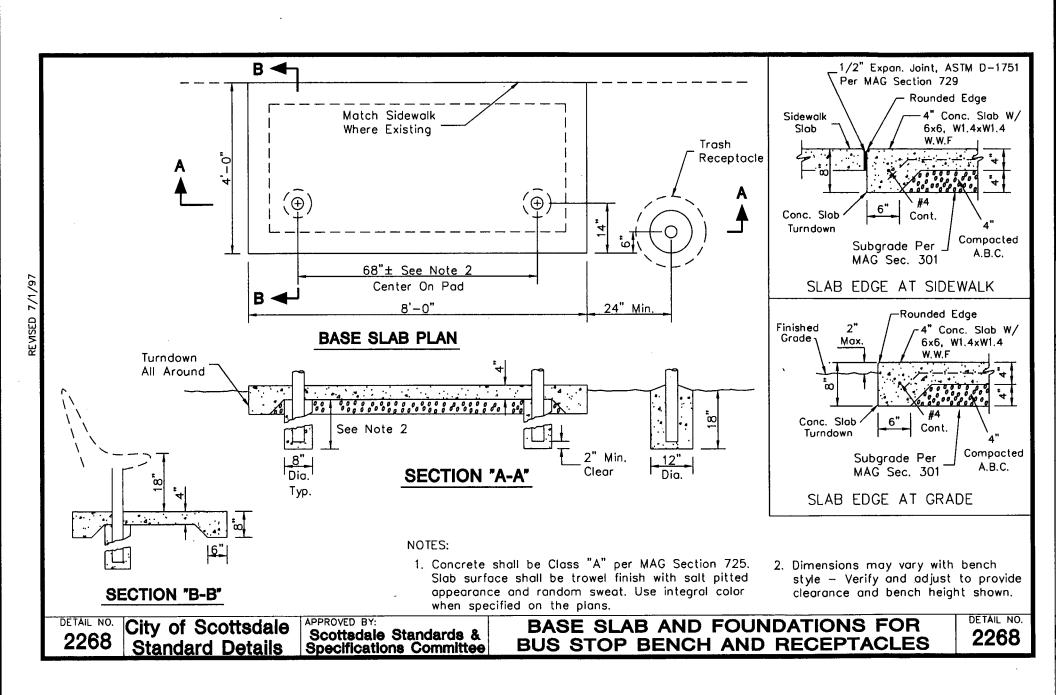
2265-6

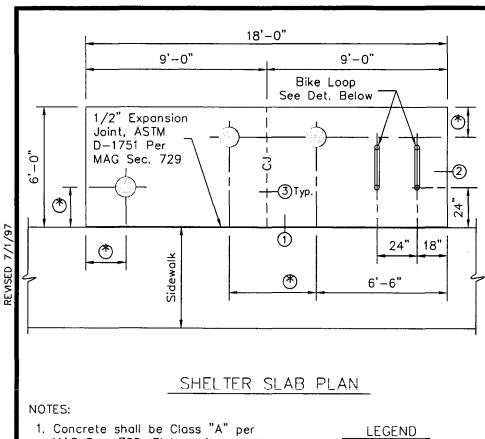
ABBREVIATIONS NOTE: ABBREVIATIONS MAY OR MAY NOT HAVE PERIODS, BUT SHALL BE READ AS SAME.						
A.B. —	- ANCHOR BOLT	DN —	- DOWN	PCI	- PRECAST/PRESTRESSED CONCRETE	
A,B,C	AGGREGATE BASE COURSE	DWG(S)	- DRAWING(S) - END TO CENTERLINE		INSTITUTE	
ACI	- AMERICAN CONCRETE INSTITUTE	E.C	-END TO CENTERLINE	P.C. ———	- PRECAST CONCRETE	
A/C	— AIR CONDITIONER — ABOVE FINISHED FLOOR	E.C. E.E. E.O.S. EQ EQUIP	-END TO END	PLF —	- PRECAST CONCRETE - POUNDS PER LINEAR FOOT - PLUS OR MINUS - PREFABRICATED - POUNDS PER SOLIARE FOOT	
A.F.F	ABOVE FINISHED FLOOR	E.O.S. —	-EDGE OF SLAB	±	- PLUS OR MINUS	
AISC	- AMERICAN INSTITUTE OF STEEL	EQ	- EQUAL	PREFAB	- PREFABRICATED	
	CONSTRUCTION	EQUIP	- EQUIPMENT	PSF	- POUNDS PER SQUARE FOOT - POUNDS PER SQUARE INCH	
AISI	- AMERICAN IRON AND STEEL	EXP. BOLT (E.B.) —	-EXPANSION BOLT	PSI —	- POUNDS PER SQUARE INCH	
-	INSTITUTE	EXP. JT (E.J.)	-EXPANSION JOINT	PTI	- POST-TENSIONING INSTITUTE	
AITC —	- AMERICAN INSTITUTE OF TIMBER	E.W	-EACH WAY	REINF -	- REINFORCING - STEEL DECK INSTITUTE	
	CONSTRUCTION	F.F	FINISHED FLOOR	SDI —	- STEFL DECK INSTITUTE	
ALT.	ALTERNATE	IFOM ————	FACE OF MEMBER	SI LI	- CHUDI IEC HUDIZUNITAI	
ANSI	- AMERICAN NATIONAL STANDARDS	F.O.S. ———	-FACE OF STEEL -FACE OF WALL -GAGE (UNIT OF MEASUREMENT)	SLV	- SHORT LEG VERTICAL - STEEL JOIST INSTITUTE	
	INSTITUTE	F,O,W, ————	-FACE OF WALL	SJI -	- STEEL JOIST INSTITUTE	
APA	- AMERICAN PLYWOOD ASSOCIATION	GA	-GAGE (UNIT OF MEASUREMENT)	SIM -	- SIMILAR	
ARCH'L -		GALV	- GAL VANIZED	SIM ————————————————————————————————————	- SQUARE	
ASTM	- ARCHITECTURAL - AMERICAN SOCIETY FOR TESTING	G.S.N. —	-GAGE (UNIT OF MEASUREMENT) -GALVANIZED -GENERAL STRUCTURAL NOTES	SSMA	- STEEL STUD MANUFACTURERS	
	AND MATERIALS	I GLB (GLULAM)	GILIFD-LAMINATED REAM	1	ASSOCIATION	
AWS	- AMERICAN WELDING SOCIETY	HORIŻ —	- HORIZONTAL REINFORCING - INTERNATIONAL BUILDING CODE	STD —	- STANDARD	
@ 	— AMERICAN WELDING SOCIETY — AT (MEASUREMENT)	IBC -	- INTERNATIONAL BUILDING CODE	1 07	O.T.C.	
Вм ———		ICBO	- INTERNATIONAL CONFERENCE OF	Ti -	- TOTAL LOAD	
BFF —				TOB —	- TOP OF REAM	
BI K		I.F.W.	INCIDE EACE OF WALL	TOCT -	- STEEL - TOTAL LOAD - TOP OF BEAM - TOP OF CONCRETE TOPPING - TOP OF DECK - TOP OF FOOTING - TOP OF LEDGER	
D O D	BOTTOM OF BEAM	1.O.D.	-INTERPRETATION OF DRAWINGS	TOD -	- TOP OF DECK	
BOD ———	- BOTTOM OF DECK	K(KIP)	- 1000 POUNDS	TOF	- TOP OF FOOTING	
BOF -	— BOTTOM OF FOOTING	KIF —	- KIPS PER LINEAR FOOT	TOI	- TOP OF LEDGER	
BRG	— BOTTOM OF BEAM — BOTTOM OF DECK — BOTTOM OF FOOTING — BEARING — CAMBER — CENTERLINE TO CENTERLINE	IBS (#)	-INTERPRETATION OF DRAWINGS - 1000 POUNDS - KIPS PER LINEAR FOOT - POUNDS	TOM	- TOP OF MASONRY	
C	CAMBER	I.GS (#7	- LIGHT GAGE STEEL	TOP	- TOP OF MASONRY - TOP OF PLATE	
č c ———	CENTERLINE TO CENTERLINE	IGSFA	- LIGHT GAGE STEEL - LIGHT GAGE STEEL ENGINEERS	TOPC	- TOP OF PRECAST CONCRETE	
C.G	- CENTER OF GRAVITY		ASSOCIATION	T.O.S. ———	- TOP OF STEEL	
C.U	— CENTER OF GRAVITY — CAST IN PLACE	1 0 D	- LOCATION OF DETAILS - LIVE LOAD	T.O.W.	TOP OF WALL	
C.L. —	CENTERLINE	11	- LIVE LOAD	TDI	- TRUSS PLATE INSTITUTE	
C D	CENTEDLINE OF DEAM	114	- LONG LEG HORIZONTAL	TYP —	- TYPICAL	
C.L.D.	CENTERINE OF COLUMN	11.V ————	- LONG LEG HORIZONTAL - LONG LEG VERTICAL	T&C	TONGUE AND GROOVE	
C.L.C.	CENTERLINE OF EQUINO	MAS	- MASONRY	URC	- UNIFORM RUILDING CODE	
C.L.I.	CENTERLINE OF COLUMN — CENTERLINE OF FOOTING — CENTERLINE OF WALL — CLEAR — CONCRETE — CONCRETE CONTROL JOINT — CONCRETE SAWCUT JOINT	MAS C.I	- MASONRY - MASONRY CONTROL JOINT	11 N O	- UNIFORM BUILDING CODE - UNLESS NOTED OTHERWISE	
C. L. 11.	— CLEAR	MAX	- MAYIMIM	VERT	- VERTICAL REINFORCING	
CONC	CONCRETE	MRMA	- MAXIMUM - METAL BUILDING MANUFACTURERS	WCI A	- WEST COAST LUMBER ASSOCIATION	
CONC C I ———	- CONCRETE CONTROL IOINT	WOWA	ASSOCIATION	WCLIB-	- WEST COAST LUMBER INSPECTION	
CONC C.U.		MECH'L		WCEID	BUREAU	
CMU	- CONCRETE MASONDY LINIT	MER('S)	- MANUFACTURER('S)	WWE	- WELDED WIDE EARRIC	
CONN. ———	CONCRETE MASONRY UNIT	MIN -	- MINIMEIM	VV. VV. F.	- WELDED WIRE FABRIC - WESTERN WOOD PRODUCTS	
CONT	CONNECTION	Ν/Δ	- NOT APPLICABLE	WWF A	ASSOCIATION	
CONT		NTS -	NOT TO SCALE	w/	- WITH	
CBSI ————	CITY OF SCOTTSDALE CONCRETE REINFORCING STEEL	0.0	- ON CENTER	W/C	- WITH - WATER TO CEMENT RATIO - WITHOUT	
CKSI	INSTITUTE	0.C.	- OUTSIDE FACE OF WALL	W/O	- WITHOUT	
DI	14211101E	O.F. W.	- OPPOSITE	"/0	m HOO I	
DL ø OR DIA	DIAMETER	000	OCCUDATIONAL SAFETY AND			
		USHA	- NOT TO SCALE - NOT TO SCALE - ON CENTER - OUTSIDE FACE OF WALL - OPPOSITE - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION		NETTUCKIS	
DETAIL NO. Cit	ty of Scottsdale Scottsda	^{Y:} ale Standards &		QUEI TED	DETAIL NO.	
2265-7 Standard Details Scottsdale Standards & Scottsdale Standards & Specifications Committee BUS SHELTER 2265-7						





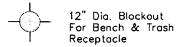






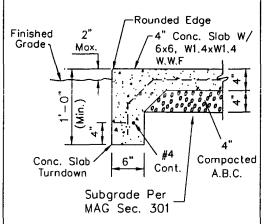
- MAG Sec. 725. Slab surface shall be trowel finish with salt pitted appearance and random sweat. Use integral color when specified on the plans.
- 2. "(*)" Blockout locations for bench and trash receptacle as shown on Plans or specified by the Engineer.

CJ - - Control Joints

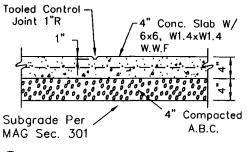


1/2" Expan. Joint, ASTM D-1751 Per MAG Section 729 Rounded Edge 4" Conc. Slab W Sidewalk 6x6, W1.4xW1.4 Slab W, W, F Conc. Slab Cont. Compacted Turndown A.B.C. Subgrade Per _ MAG Sec. 301

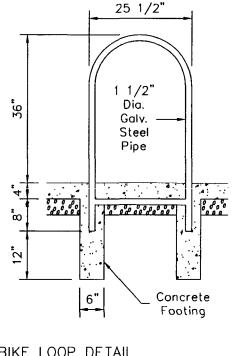
(1) SLAB EDGE AT SIDEWALK



(2) SLAB EDGE AT GRADE



(3) SLAB CONTROL JOINTS



BIKE LOOP DETAIL

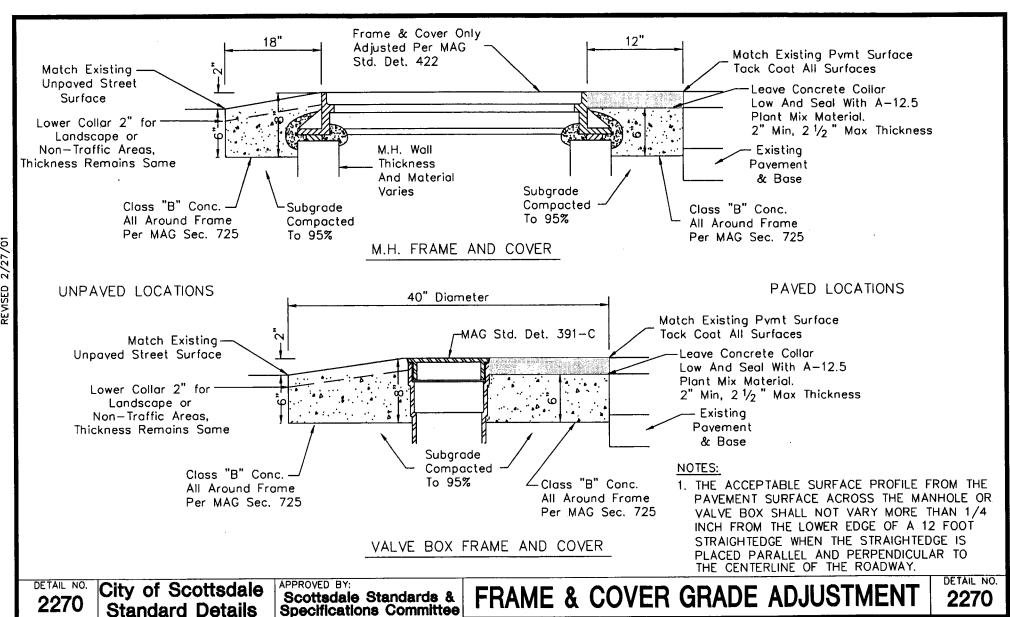
DETAIL NO. 2269

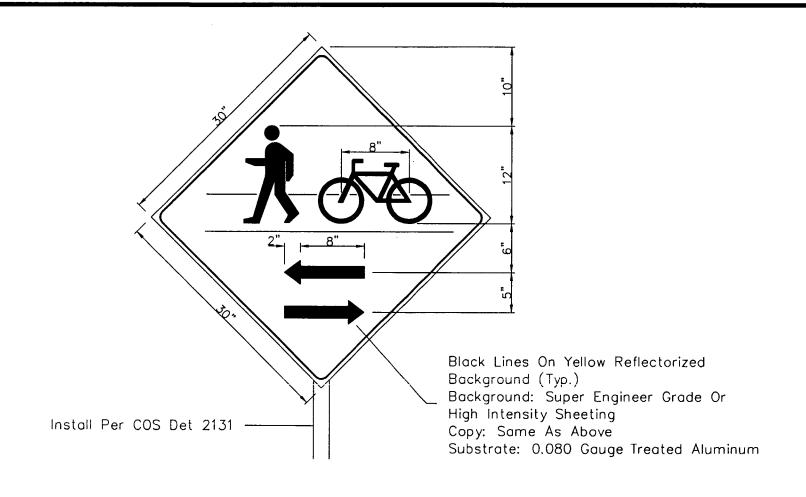
City of Scottsdale Standard Details

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TRANSIT SHELTER PAD



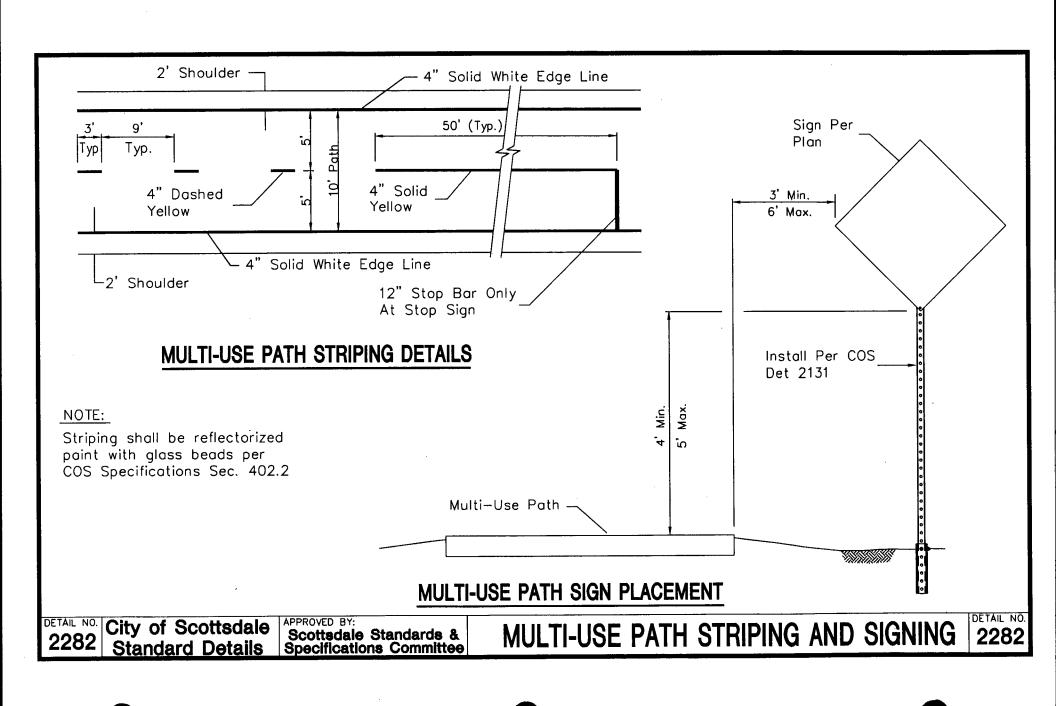


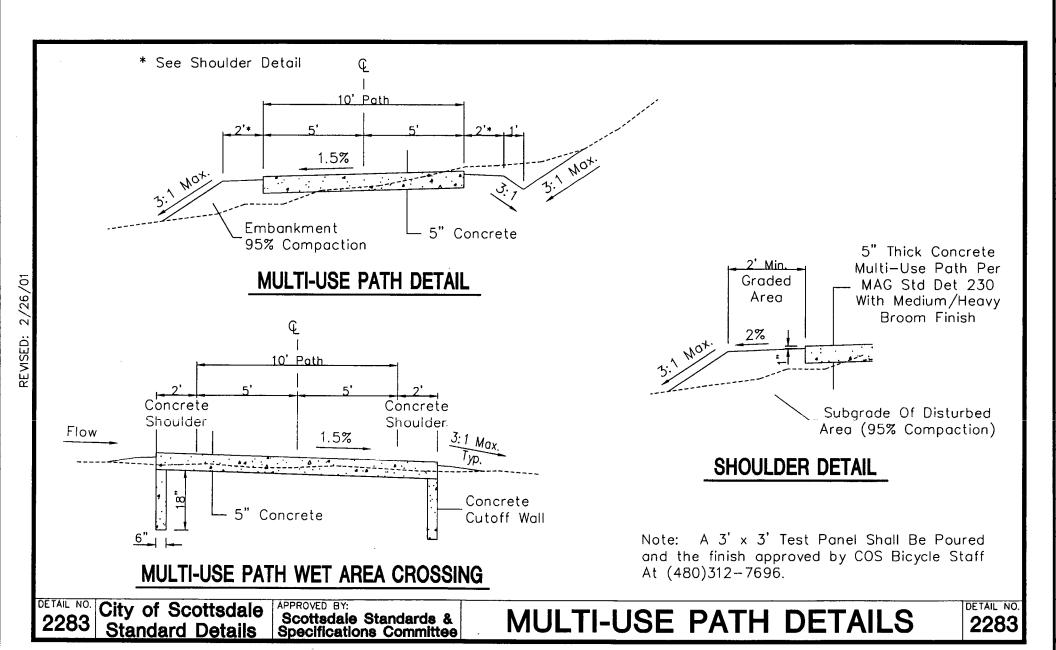
MULTI-USE PATH CROSSING SIGN

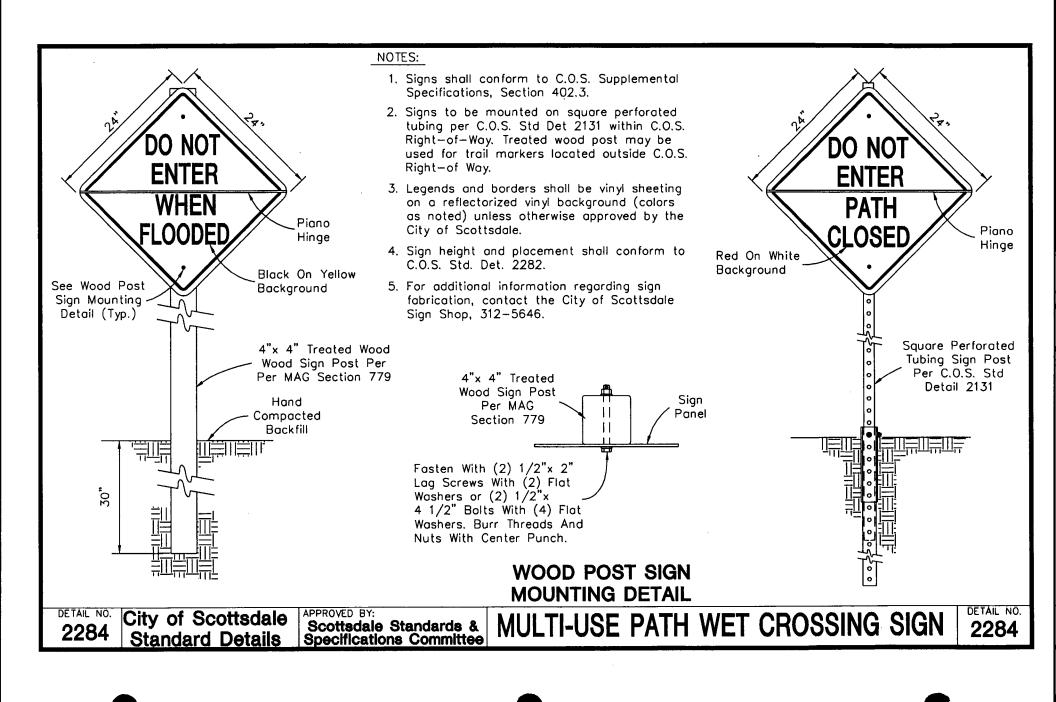
2281 City of Scottsdale Standard Details

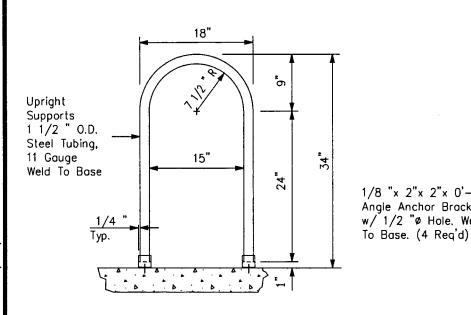
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Specifications Committee

MULTI-USE PATH CROSSING SIGN









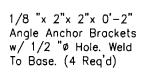
2' Min. Clearance From
Walls Or Obstructions On
Both Sides And Back.
Front To Have A 6' Min.
Clear Area.

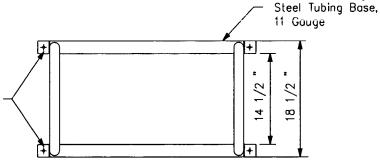
1/8 "x 2"x 2"x 0'-2"
Angle Anchor Brackets
w/ 1/2 "Ø Hole. Weld
To Base. (4 Req'd)

1"x 2" Rectangular

NOTES:

- 1. Double rack holds 4 bicycles.
- 2. Finish to be weather resistant, baked—on powder polymer coating.
- 3. Anchor rack to concrete w/ 3/8" ø x 2 1/2" wedge anchors and tamper resistant or welded nuts, (4 Req'd) or set tubing 12" below grade in 24" deep x 6" wide concrete footing.
- 4. Concrete base may be covered with turf or decomposed granite.
- 5. Placement of bicycle rack shall be convenient to main entrance and in a highly visible area.



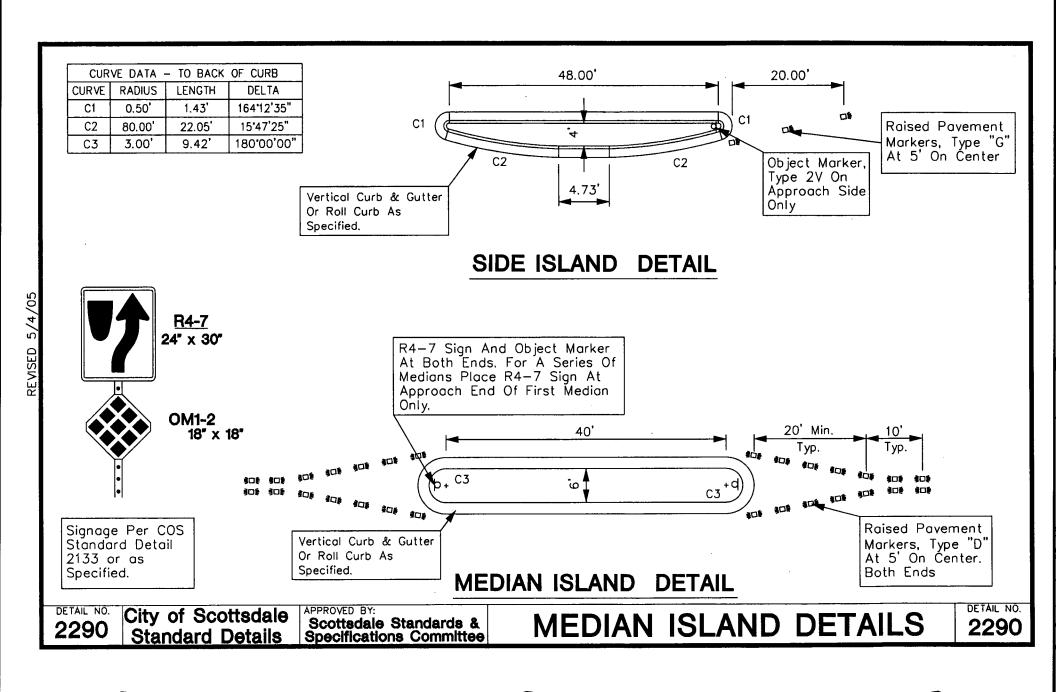


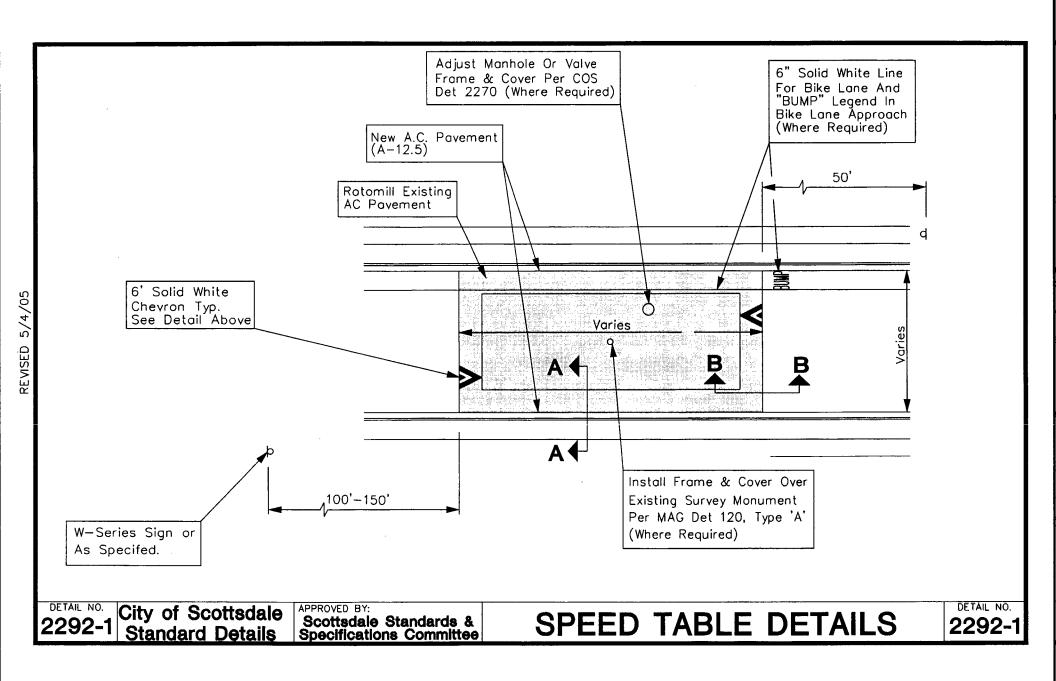
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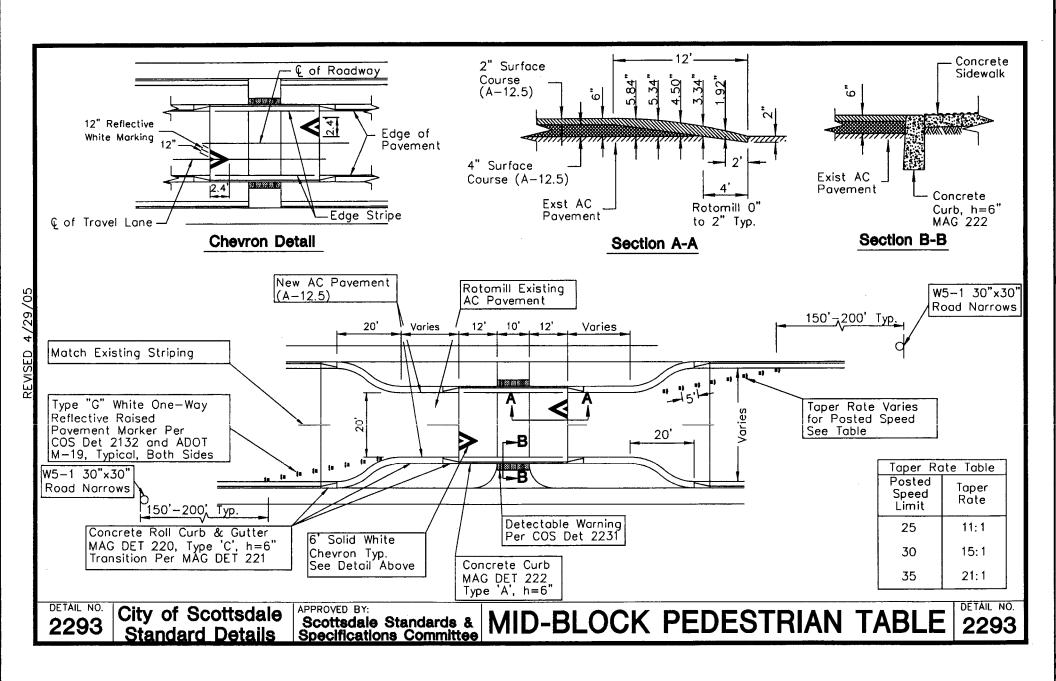
City of Scottsdale Standard Details

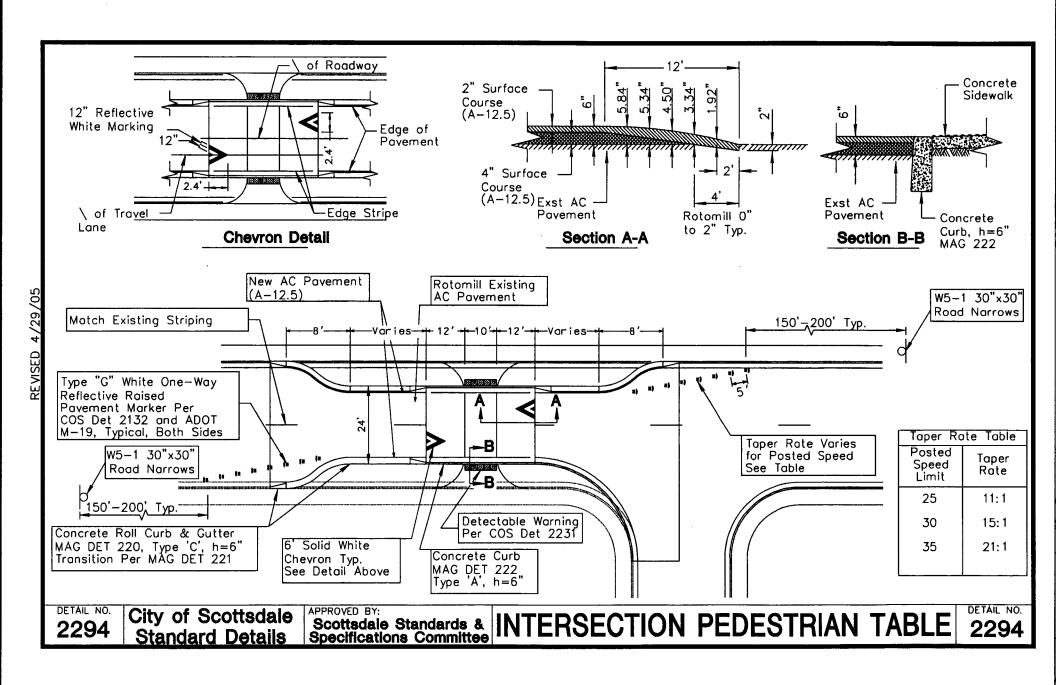
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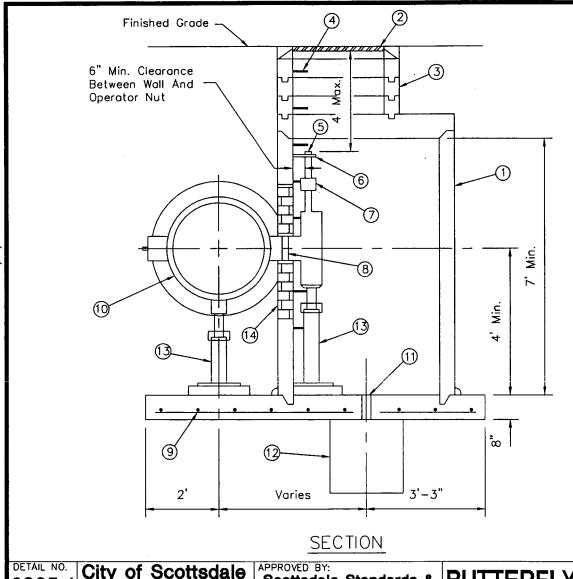
DOUBLE BICYCLE RACK









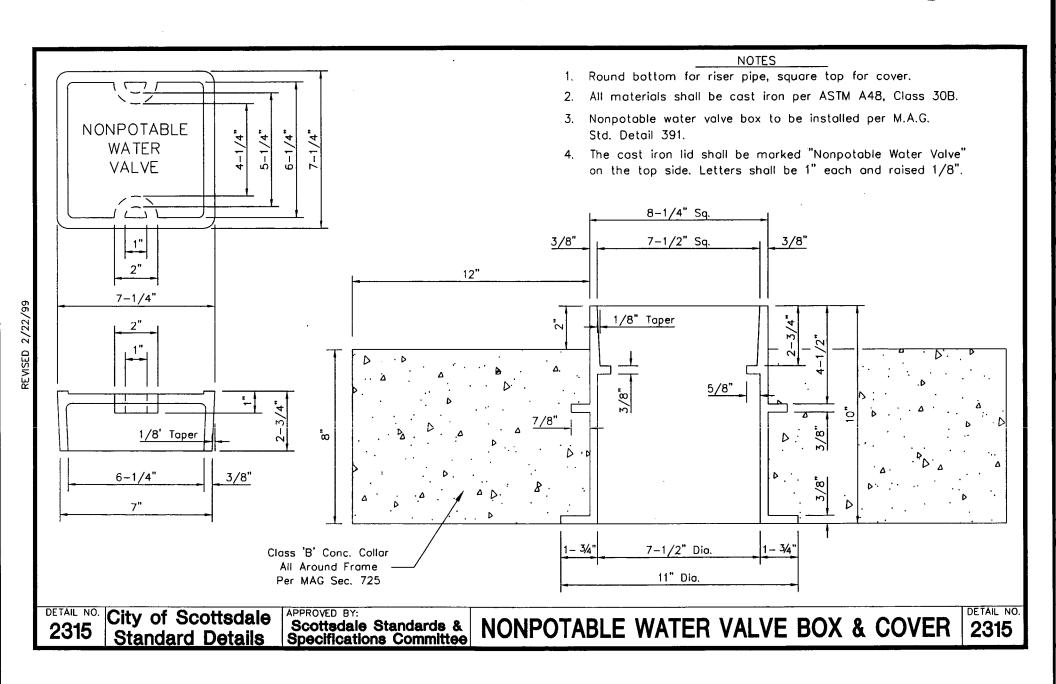


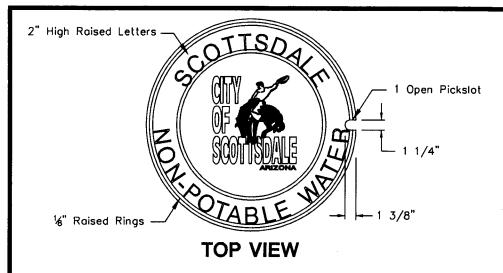
LEGEND

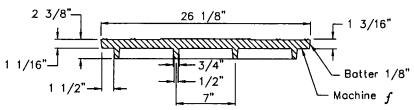
- 48" I.D. Manhole Shaft Per MAG Std. Detail 420, Type "B" Top
- 30" Manhole Frame & Cover Per MAG Std. Detail 424
- Grouted Adjusting Rings
- Polypropylene Manhole Steps Per MAG Std. Detail 428, 12" Spacing Typical
- Operator Nut
- Wall Bracket
- Packing Gland
- 6" Extension
- #4 Rebar 12" On Center Each Way 2" Clear Typical
- Butterfly Valve
- 3" Diameter Drain
- 8 Cu. Ft. Gravel Sump
- Adjustable Pipe Saddle Support
- Rectangular Cut-Out In Manhole Shaft, Fill Space Between Shaft And Pipe With 1" Sheet Foam, Brick And Mortar

City of Scottsdale Standard Details

Scottsdale Standards & BUTTERFLY VALVE OPERATOR MANHOLE 2305-1







SECTION OF COVER

24" MANHOLE COVER

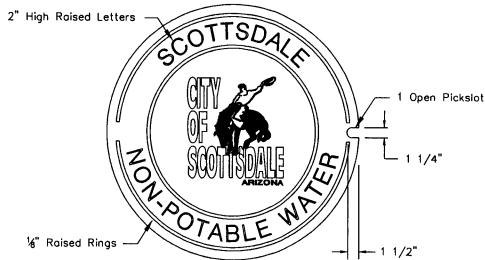
NOTES

- 1. Material: Cast Gray Iron ASTM A-48, Class 35B, Unpainted
- The Total Width Of Individual Letters To Be Such That Letters And Words Are Equally Spaced And Balanced.
- Letters To Be 2" In Height And Roised 1/8" Above Level Of Cover. Type Of Letters To Be Submitted For Approval.
 Weight Of Castings Shall Be No More Than 2% Less Than Weight Specified. Castings Shall Conform To M.A.G. Section 787.

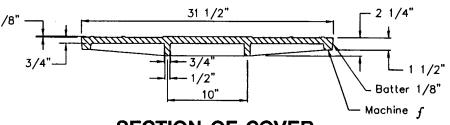
City of Scottsdale Standard Details

APPROVED BY: Scottsdale Standards & Specifications Committee

NON-POTABLE WATER MANHOLE COVER

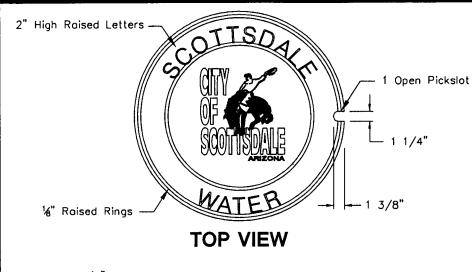


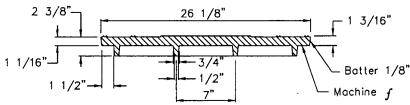
TOP VIEW



SECTION OF COVER

30" MANHOLE COVER





SECTION OF COVER

24" MANHOLE COVER

NOTES

- 1. Material: Cast Gray Iron ASTM A-48, Class 35B, Unpainted
- The Total Width Of Individual Letters To Be Such That Letters And Words Are Equally Spaced And Balanced.
- Letters To Be 2" In Height And Raised ½" Above Level Of Cover. Type Of Letters To Be Submitted For Approval.
 Weight Of Castings Shall Be No More Than 2% Less Than Weight Specified. Castings Shall Conform To M.A.G. Section 787.

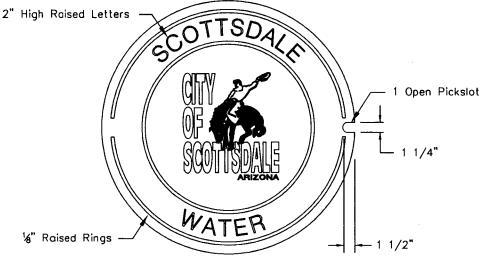
DETAIL NO. 2321

City of Scottsdale Standard Details

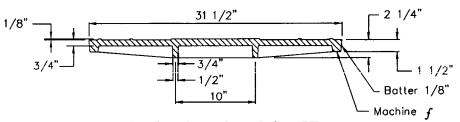
Scottsdale Standards & Specifications Committee

WATER MANHOLE COVER

DETAIL NO. 2321

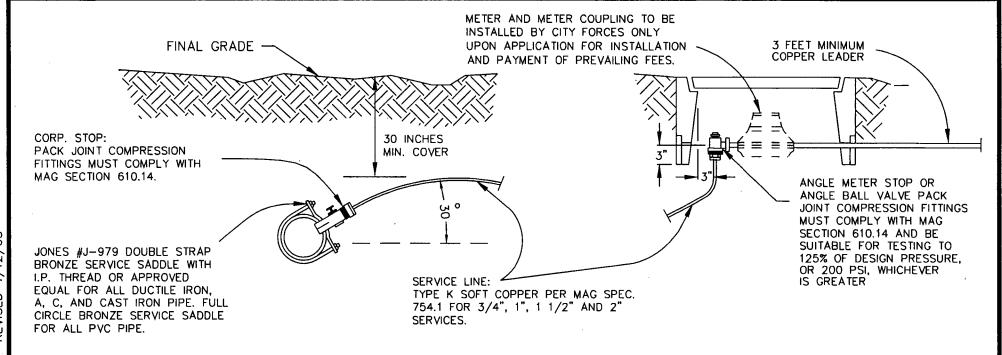


TOP VIEW



SECTION OF COVER

30" MANHOLE COVER



NOTE:

- 1. All taps must be made using a service saddle.
- 2. All service line sizes shall have the pack joint compression fittings for corp. stops and meter stops.
- 3. Where a contractor is installing new water lines, he shall also install the water service connection. The installation shall include the service saddle, corp. stop, service pipe, appurtenant fittings, meter stop, concrete meter box and box cover, per M.A.G. Specifications.
- 4. Copper service lines in the 3/4", 1", 1 1/2", and 2" sizes that cross streets will be one continuous piece. Only with the express written consent of Water & Wastewater Operations will joints be permitted under a road. When this occurs, pack joint fittings will be required; no soldered joints will be permitted.
- 5. When all or part of a development is to be served by existing City of Scottsdale water mains, only authorized City of Scottsdale Water and Wastewater Operations personnel shall install the water service connection.
- 6. Rough grade shall be set to 1 $\frac{1}{2}$ inches below top of meter box. Final landscape grade shall be set flush to top of meter box

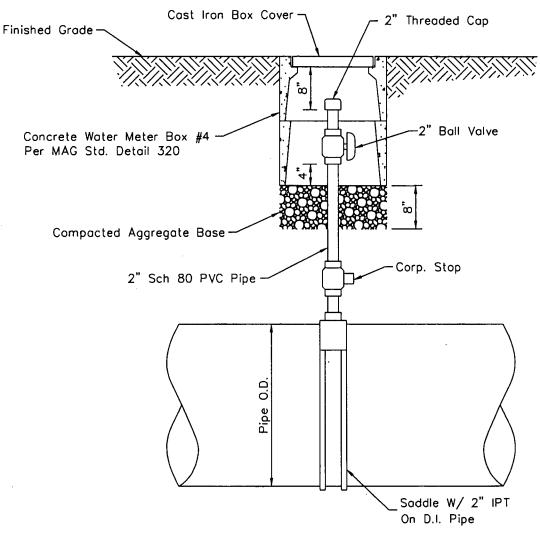
DETAIL NO.

City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

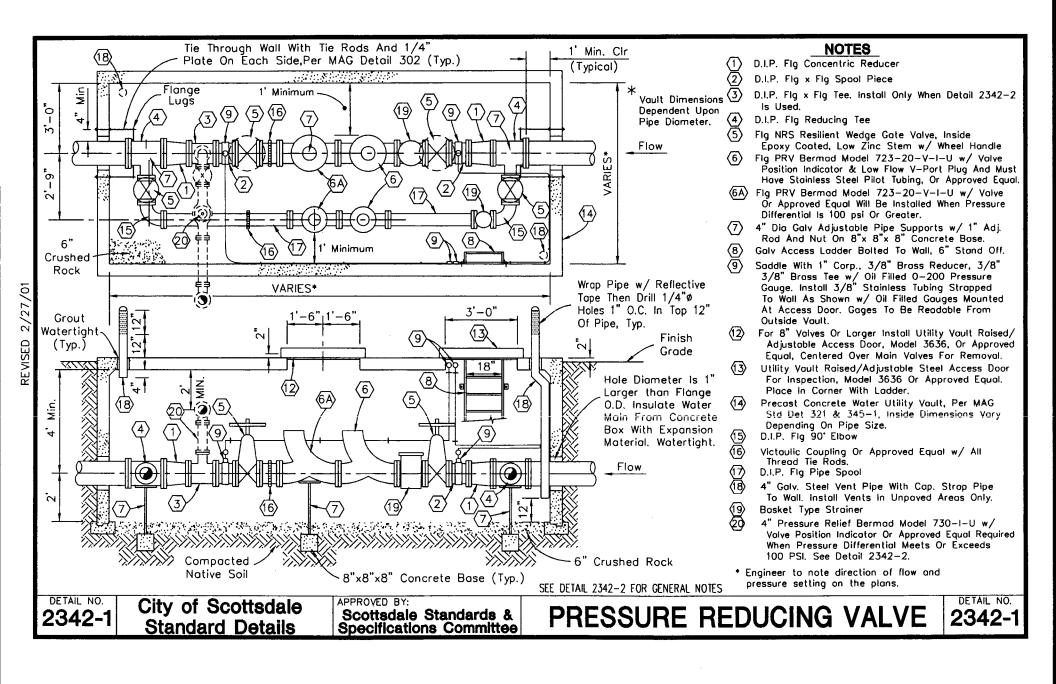
WATER SERVICE LINE CONNECTION

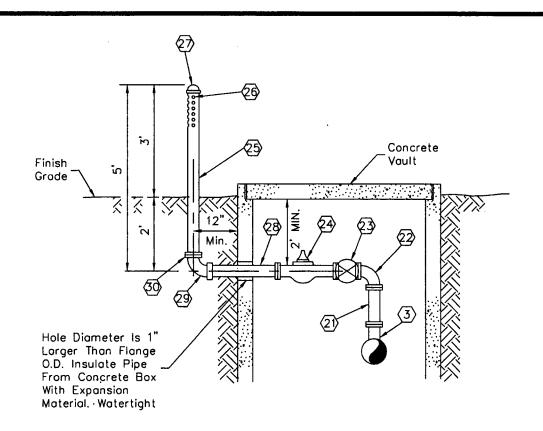


City of Scottsdale Standard Details 2333

APPROVED BY:
Scottsdale Standards &
Specifications Committee

TAP FOR FUTURE CHLORINE INJECTION





PRESSURE RELIEF OUTLET ASSEMBLY DETAIL

SEE NOTE 20 DETAIL 2342-1

NOTES

- (3) Fig x Fig Tee, See Detail 2342-1
- (21) 4" Flg Connecting Piece
 - 4" DIP Fig x Fig 90' Elbow, w/ Restrained Joints (Meg A Lug Or Approved Equal)
- 4" Flg NRS Resilient Wedge Gate Valve, Inside Epoxy Coated, Low Zinc Stem w/ Handwheel
- 4" Flg PRV Bermad Model 730-I-U Or Approved Equal, Epoxy Coated w/ Valve Position Indicator
- 25 4" SCH. 40 Steel Pipe (Painted Desert Beige)
- 6 Rows 2" O.C. Of 3-1"ø Holes, 180° Spray Pattern
- 27 4" SCH 40 Steel Cap (Threaded)
- (28) 4" Ductile Pipe Spool
- (29) 4" DIP MJ x Flg 90" Elbow
- (30) Flanged Connection w/ Breakaway Bolts

GENERAL NOTES

- 1. All pipe and valves are to be rated per system pressure.
- 2. Pilot lines for all controls will be stainless steel tubing.
- Stainless tubing bends will be uniform and made with a tubing bender.
- 4. Bypass line (small PRV) shall be 4" Min. D.I.P.
- 5. Airvents and relief outlet riser pipe shall not be located within 12 feet of an existing edge of pavement or within 2 feet of a barrier type curb or 2' back of sidewalk.

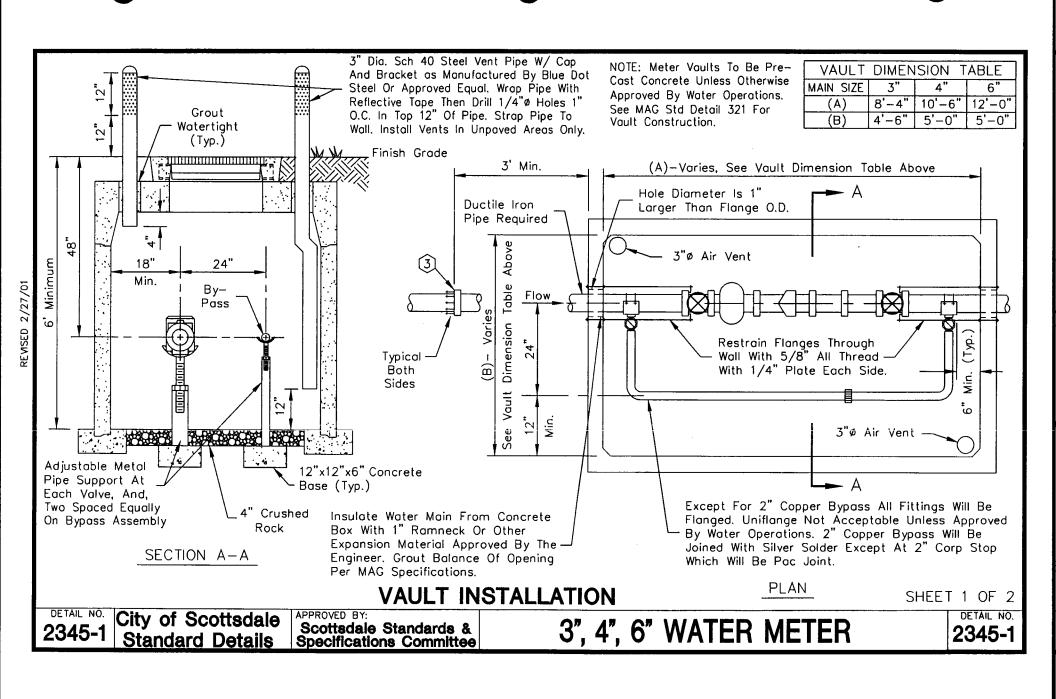
DETAIL NO.

City of Scottsdale Standard Details APPROVED BY:

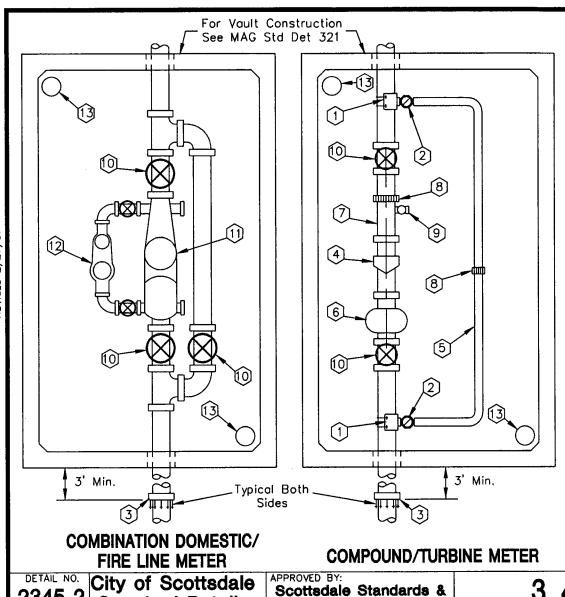
Scottsdale Standards & Specifications Committee

PRESSURE REDUCING VALVE

DETAIL NO. 2342-2







KEY NOTES

- Double Strop All Bronze Service Saddle, Or Flanged x Flanged Tee With Flanged X Flanged Valve For Sizes 3" Or Lorger.
- (2) Corp. Stop, 2"(Ball Type), Or R.W. Gate Valve With Non-Rising Stem Handwheel Operator For 3" Or Larger.
- (3) Adaptor, Flanged To Mech. Joint For A.C.P.
- [4] Turbine (High Flow) Or Compound Meter, See Note 4 Below.
- (5) 2" Ridged Type "K" Copper By-Pass Line, 3" Or Larger To Be Ductile Iron. Not Less Than One Pipe Size Smaller Than Meter In Note 4.
- (6) Strainer, Supplied with Meter.
- (7) Flanged Spool, (3 Pipe Diameters In Length, Min.).
- (8) Provide Victaulic Coupling Or Approved Equal For All Lines 3" Or Larger.
- 9 2" Threaded Outlet And Ball Valve. Not Needed If Vertical Test Valve Is Provided On Meter.
- (10) Resilient Wedge Gate Valve, Flanged, With Hand Wheel, Open Left, With Non-Rising Stem.
- [11] Turbine (High Flow) Or Compound Meter, See Note 4 Below.
- 2" Turbine Meter: Sensus "W-160" Or Hersey "MHR" Or Neptune Trident Turbine.
- 3"ø Air Vent, See Sheet 1 Of 2.

NOTES

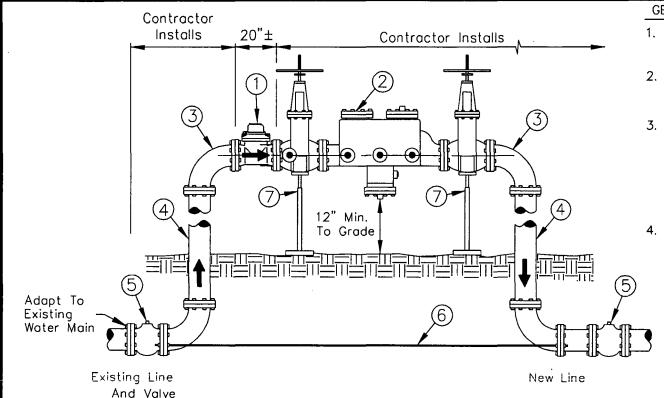
- For Larger Meters Special Vault Design Is Required. Use Of Remote Reading Device At Option Of Utility.
- An Approved Backflow Prevention Assembly Shall Be Required Downstream Of The Water Meter. Contact Water Resources, Backflow Prevention For Specific Information.
- 4. Meter To Be Provided By City Upon Payment Of Fees.

SHEET 2 OF 2

Standard Details

Specifications Committee

3, 4", 6" WATER METER



- 1. Contractor to supply and install above ground piping and fittings to accommodate 3" meter, backflow preventer and 2 90° ells.
- Contractor to remove piping and fittings after acceptance of new water main and complete connection as per MAG Standards.
- 3. Approvals for backflow assemblies must have Seal Approval from the American Society of Sanitation Engineers. Backflow assemblies installed on fire supression systems must also have approval from Underwriters Laboratories and/or Factory Mutual Research Corporation.
- 4. Backflow backflow assemblies must be tested by a certified tester that is recognized by the City of Scottsdale.

Adapt Size And Material To New Non-Approved Water Main

LIST OF MATERIALS

- ① 3" Turbine Construction Meter With 3" Flanges, Supplied By City.
- 2 3" Approved Reduced Pressure Principle Backflow Prevention Assembly, Supplied By Contractor.
- 3 3" Flanged Ductile Iron 90° Ell, Supplied By Contractor.
- 4 3" Ductile Iron Spool.

- (5) Line valves shall be within a 20' maximum distance upstream and downstream of flow meter or as approved by COS, and shall remain in-place after removal of temporary meter.
- 6) 3/4"ø zinc coated threaded rod.
- 🗇 Adjustable Metal Pipe Support (Required).

DETAIL NO. **2346**

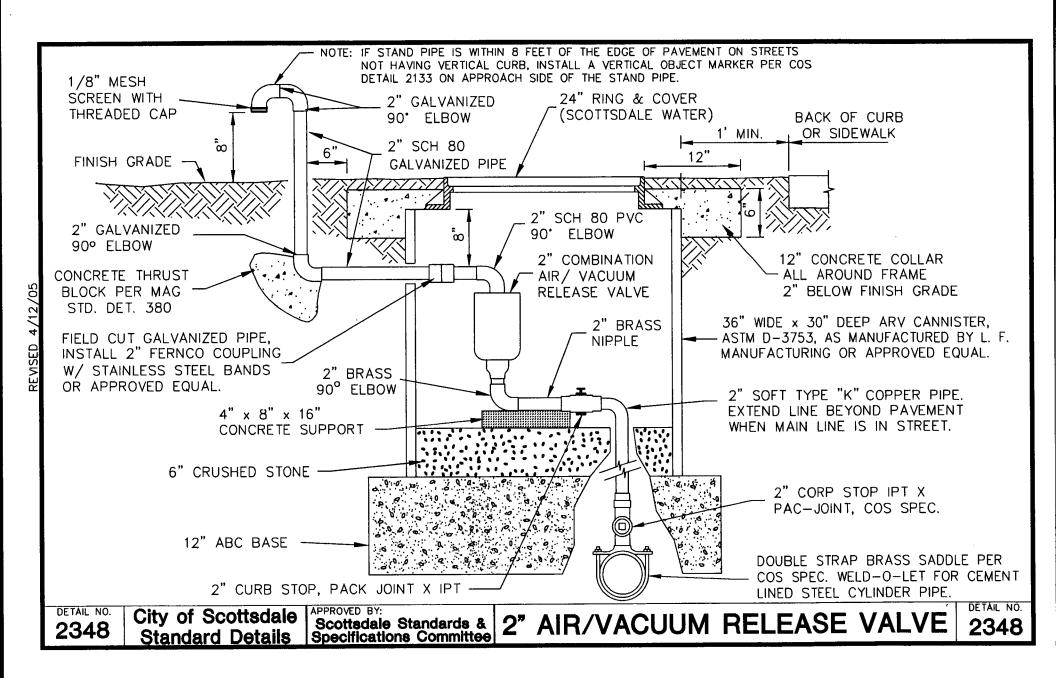
City of Scottsdale Standard Details

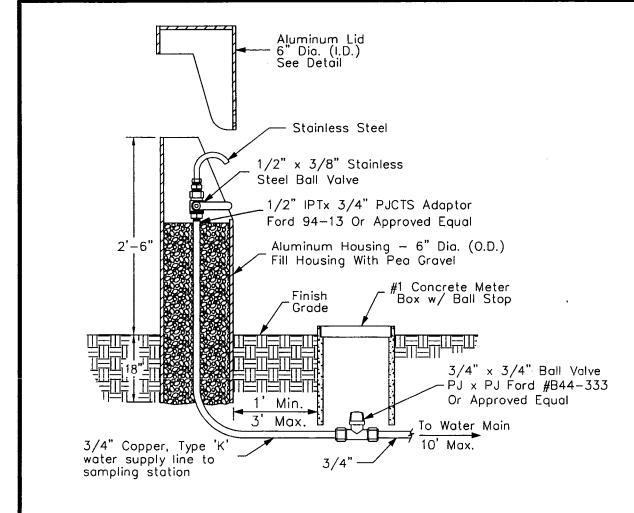
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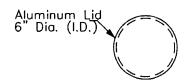
Scottsdale Standards & Specifications Committee

TEMPORARY CONSTRUCTION METER

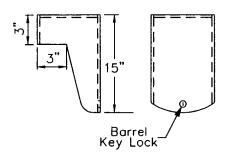
DETAIL NO.







Top View



Side View

Front View

LID DETAILS N.T.S.

NOTES:

- 1. Water Quality Sampling Station to be Koralean or approved equal.
- 2. Keys to locks shall be delivered to City of Scottsdale Water Quality Department upon acceptance.

TYPICAL INSTALLATION

N.T.S.

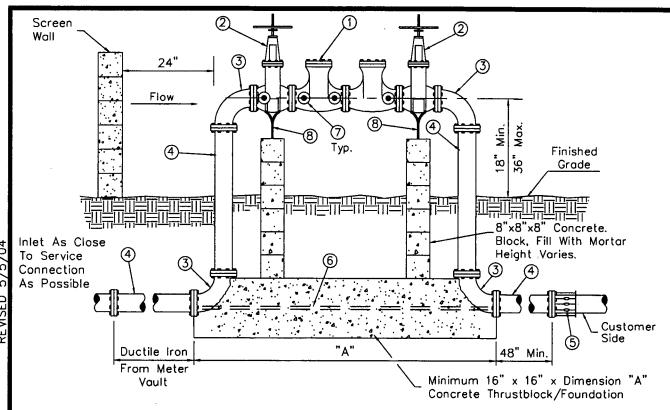
2349

City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

WATER QUALITY SAMPLING STATION



LIST OF MATERIALS

- ① Approved double check valve backflow prevention assembly.
- ② Resilient seated gate valve. O.S. & Y. (fire line connection) N.R.S. (non fire line)
- (3) 90° ell. Flanged D.I.P. 3" thru 10", Mega Lug or approved equal may be used on underground joints.
- Pipe spool. Flonged D.I.P. 3" thru 10", Mega Lug or approved equal may be used on underground joints.
- 5 Flanged adapter (when required)

- 6 3/4" zinc coated threaded rod, (5/8" rod on 3" to 4" sizes), bolt to flanges as shown, typical both sides.
- Test cocks with brass plugs or adaptors with caps installed. (4 required)
- (8) Adjustable metal pipe supports and concrete block supports with 1" adjusting rod and nut on assemblies 4" and larger. Install above grade.

GENERAL NOTES

- Backflow assemblies must be tested by a certified tester that is recognized by the City of Scottsdale.
- Backflow preventers shall be painted light tan or a color to match the building. Do not paint the name plate or any brass parts on the assembly.
- For backflow preventers requiring guard posts see Detail 2356. Backflow preventers enclosed by screening shall maintain a 24 inch clear ance around the assembly.
- 4. Finished grade underneath the backflow preventer shall be at 95% compaction.
- Backflow preventers on fire lines may require tamper switches on the shut off valves. Contact City Of Scottsdale Plan Review, Fire Dept.
- Call for underground inspection before backfilling trench.
- Vertical installations of assemblies on fire sprinkler systems are allowed using assemblies approved for use in the vertical position on fire systems.
- 8. Approvals for backflow assemblies must have Seal Approval from the American Society of Sanitation Engineers. Backflow assemblies installed on fire supression systems must also have approval from Underwriters Laboratories and/or Factory Mutual Research Corporation.

DETAIL NO. 2351

City of Scottsdale Standard Details APPROVED BY:

Scottsdale Standards & Specifications Committee

DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3 INCHES THRU 10 INCHES

- 1. Backflow assemblies must be tested by a certified tester that is recognized by the City of Scottsdale.
- 2. Copper fittings shall be connected with lead free solder joints.
- 3. Finished grade underneath the backflow preventer shall be at 95% compaction.
- All nipples to be copper or brass.
- 5. Piping under the City right of way must be type "K" copper.
- 6. Call for underground inspection before backfilling trench.
- 7. Vertical installations of assemblies on fire sprinkler systems are allowed using assemblies approved for use in the vertical position on fire systems.
- 8. Approvals for backflow assemblies must have Seal Approval from the American Society of Sanitation Engineers, Backflow assemblies installed on fire supression systems must also have approval from Underwriters Laboratories and/or Factory Mutual Research Corporation.

LIST OF MATERIALS

- Approved double check valve backflow prevention assembly, ball valves included.
- Pipe spool, type "L" hard copper, 3/4" thru 2 1/2".
- 3 90° ell, copper, 3/4" thru 2 1/2".
- Pipe union, brass or copper.
- Test cocks with brass plugs or adaptors with caps installed. (4 required)

DETAIL NO. 2352

Copper On Inlet Side.

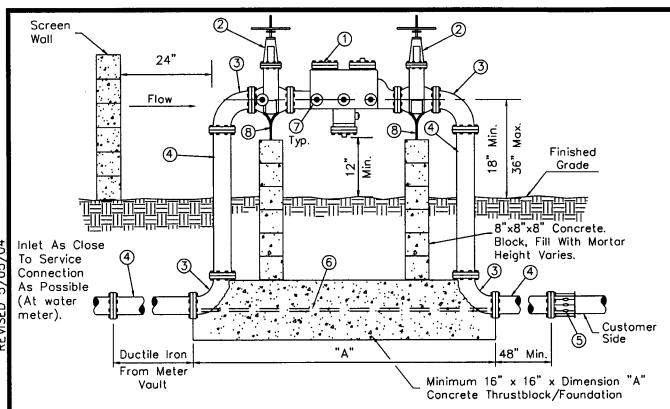
5/05/04

REVISED

City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & **Specifications Committee** DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3/4 INCH THRU 2 1/2 INCHES



LIST OF MATERIALS

- Approved reduced pressure principle backflow prevention assembly.
- (2) Resilient seated gate valve, O.S. & Y. (fire line connection). N.R.S. (non fire line)
- 3 90° ell. Flanged D.I.P. 3" thru 10", Mega Lug or approved equal may be used on underground joints.
- 4) Pipe spool. Flanged D.I.P. 3" thru 10", Mega Lug or approved equal may be used on underground joints.
- (5) Flanged adapter (when required)

- 6 3/4" zinc coated threaded rod, (5/8" rod on 3" to 4" sizes), bolt to flanges as shown, typical both sides.
- Test cocks with brass plugs or adaptors with caps installed. (4 required)
- (8) Adjustable metal pipe supports and concrete block supports with 1" adjusting rod and nut on assemblies 4" and larger. Install above grade.

GENERAL NOTES

- Backflow assemblies must be tested by a certified tester that is recognized by the City of Scottsdale.
- Backflow preventers shall be painted light tan or a color to match the building. Do not paint the name plate or any brass parts on the assembly.
- For backflow preventers requiring guard posts see Detail 2356. Backflow preventers enclosed by screening shall maintain a 24 inch clear ance around the assembly.
- 4. Finished grade underneath the backflow preventer shall be at 95% compaction.
- Backflow preventers on fire lines may require tamper switches on the shut off valves. Contact City Of Scottsdale Plan Review, Fire Dept.
- Call for underground inspection before backfilling trench.
- Approvals for backflow assemblies must have Seal Approval from the American Society of Sanitation Engineers. Backflow assemblies installed on fire supression systems must also have approval from Underwriters Laboratories and/or Factory Mutual Research Corporation.

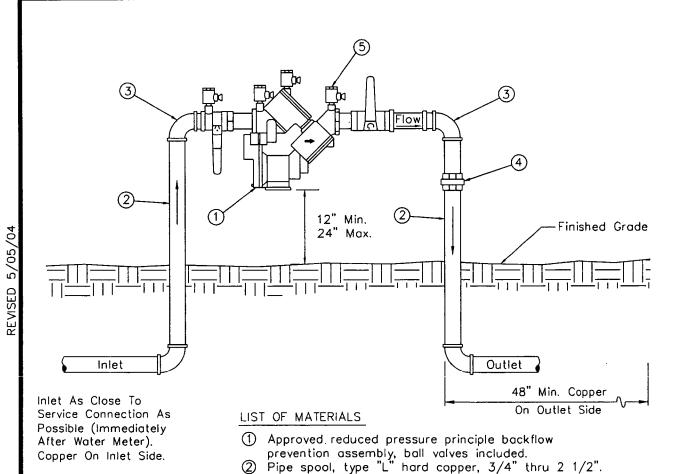
DETAIL NO. **2353**

City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3 INCHES THRU 10 INCHES



- 1. Backflow assemblies must be tested by a certified tester that is recognized by the City of Scottsdale.
- 2. Copper fittings shall be connected with lead free solder joints.
- 3. Finished grade underneath the backflow preventer shall be at 95% compaction.
- All nipples to be copper or brass.
- 5. Piping under the City right of way must be type "K" copper.
- 6. Call for underground inspection before backfilling trench.
- 7. Approvals for backflow assemblies must have Seal Approval from the American Society of Sanitation Engineers. Backflow assemblies installed on fire supression systems must also have approval from Underwriters Laboratories and/or Factory Mutual Research Corporation.

DETAIL NO.

City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

with caps installed. (4 Required)

90° ell, copper, 3/4" thru 2 1/2". Pipe union, brass or copper.

Test cocks with brass plugs or adaptors

REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3/4 INCH THRU 2 1/2 INCHES

DETAIL NO. 2354

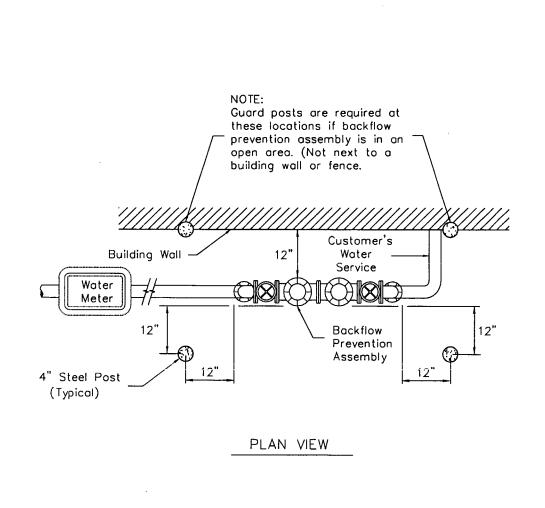
- Backflow assemblies must be tested by a certified tester that is recognized by the City of Scottsdale.
- 2. Pressure vacuum breakers must be installed at least 12" above all downstream piping.
- If this distance exceeds 24 inches, a reduced pressure principle backflow prevention assembly must be utilized. See Detail 2354.
- Copper fittings shall be connected with lead free solder joints.
- 5. Finished grade underneath the backflow preventer shall be at 95% compaction.
- 6. All nipples to be copper or brass.
- 7. Piping under the City right of way must be type "K" copper.
- 8. Call for underground inspection before backfilling trench.
- Approvals for backflow assemblies must have Seal Approval from the American Society of Sanitation Engineers.

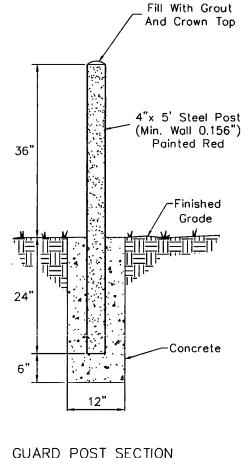
2355

City of Scottsdale Standard Details

Scottsdale Standards & Specifications Committee

PRESSURE VACUUM BREAKER ASSEMBLY FOR ASSEMBLIES 1/2 INCH THRU 2 INCHES





GUARD POST SECTION

DETAIL NO. 2356

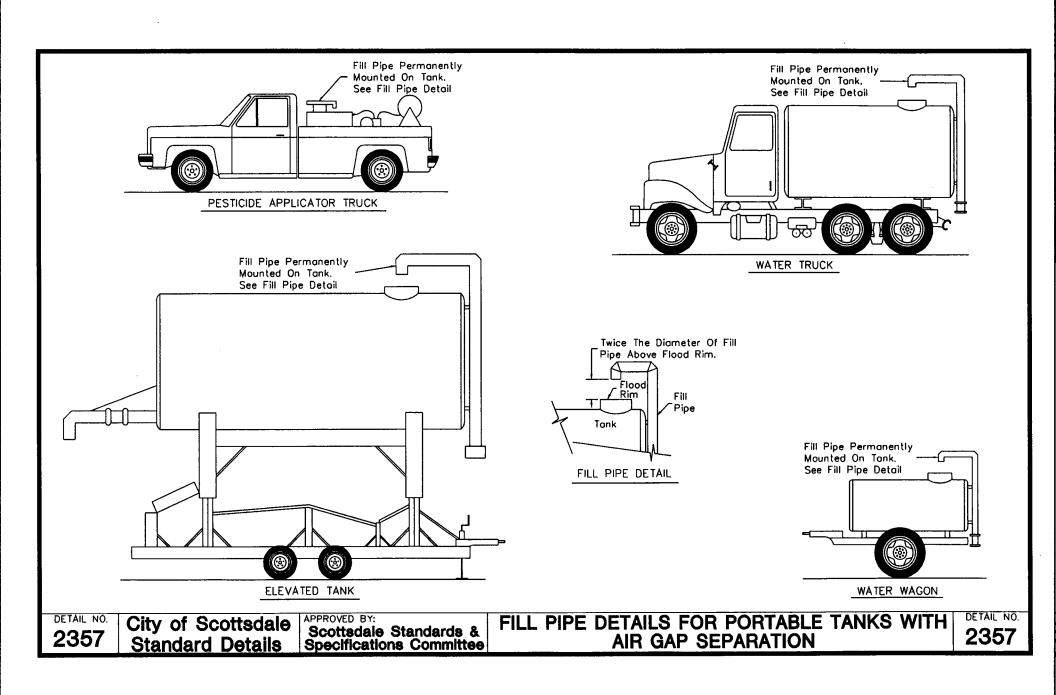
City of Scottsdale Standard Details

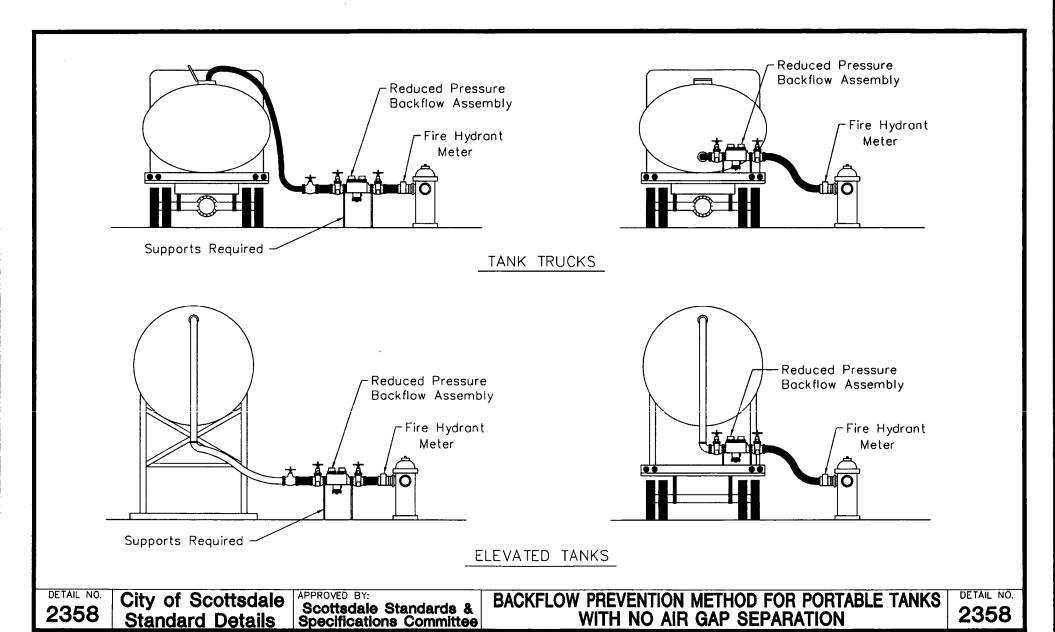
APPROVED BY:

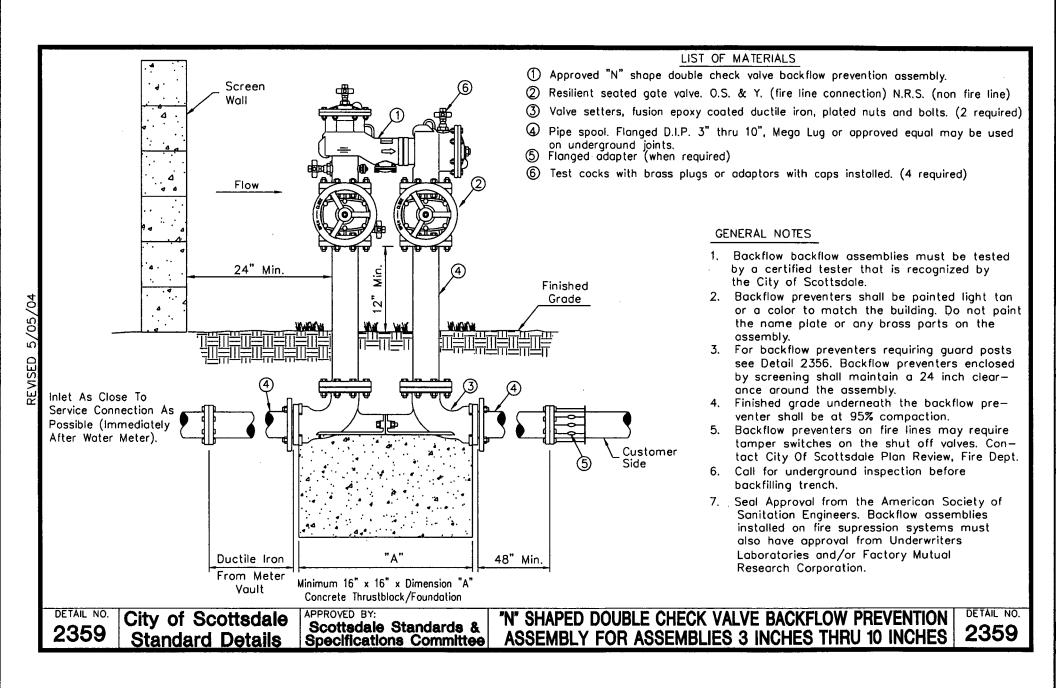
Scottsdale Standards & Specifications Committee

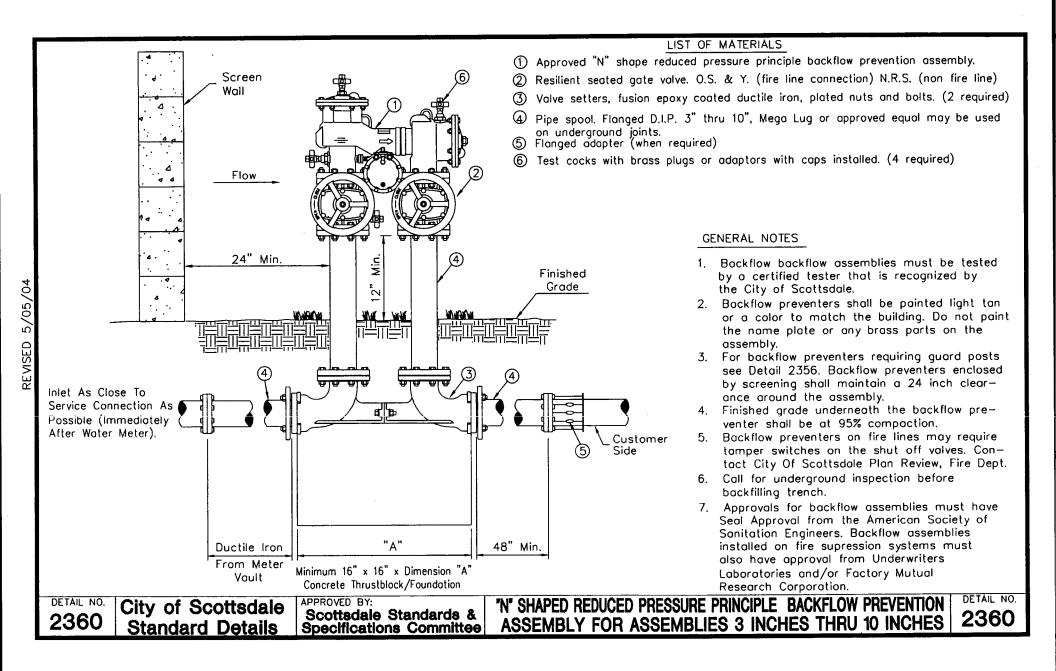
GUARD POSTS FOR BACKFLOW PREVENTION ASSEMBLIES

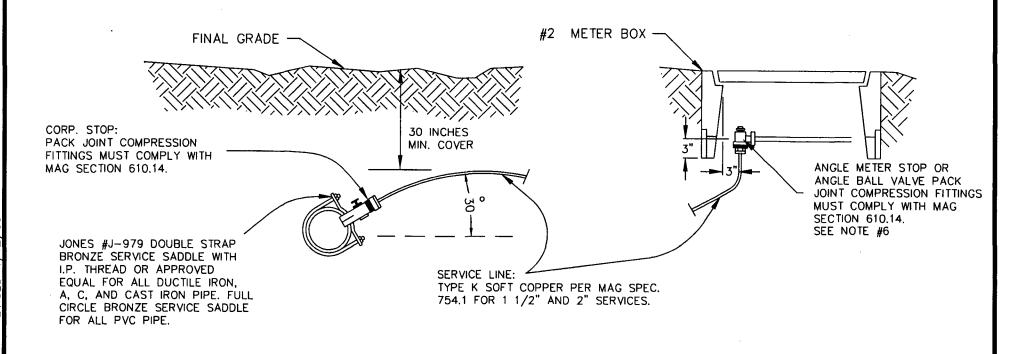
DETAIL NO.











NOTE:

1. All tops must be made using a service saddle.

2. All service line sizes shall have the pack joint compression fittings for corp. stops and meter stops.

3. Where a contractor is installing new water lines, he shall also install the water service connection. The installation shall include the service saddle, corp. stop, service pipe, appurtenant fittings, meter stop, concrete meter box and box cover, per M.A.G. Specifications.

4. Copper service lines in the 1 1/2", and 2" sizes that cross streets will be one continuous piece.
Only with the express written consent of Water & Wastewater Operations will joints be permitted under a road. When this occurs, pack joint fittings will be required; no soldered joints will be permitted.

- When all or part of a development is to be served by existing City of Scottsdale water mains, only authorized City of Scottsdale Water and Wastewater Operations personnel shall install the fire service connection.
- 6. Fire Department Identification Tag is required. Water resistant tag shall be affixed to valve in meter box and shall state: "DO NOT CLOSE! Fire Sprinkler Supply Line".
- 7. Rought grade shall be set to 1 ½ inches below top of meter box. Final landscape grade shall be set

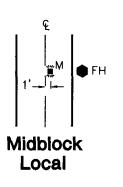
DETAIL NO.

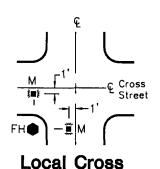
City of Scottsdale Standard Details

APPROVED BY:

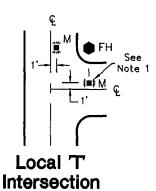
Scottsdale Standards & Specifications Committee

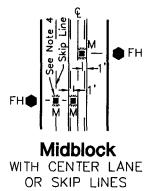
1 1/2" - 2" FIRE LINE CONNECTION

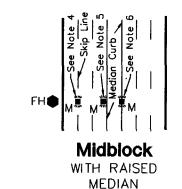


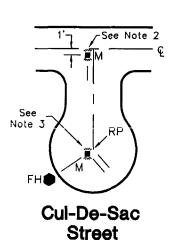


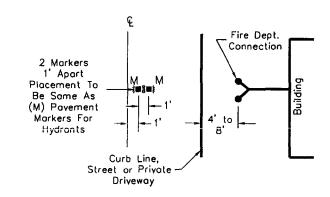
Intersection











Fire Dept. Connection



NOTES:

- 1. Not Required on Dead End Streets Without Hydrants
- 2. Place on Hydrant Side of Centerline.
- 3. Not Required When Cul-De-Sac is Less Than 250'.
- 4. To Be Placed in Line With Skip Line.
- 5. Place on Gutter or Adjacent To Curb.
- 6. Place on Top of Curb. (This Location Optional)
- 7. Pavement Markers Shall Not Be Placed Within One Foot of A Point Line (Center to Center).

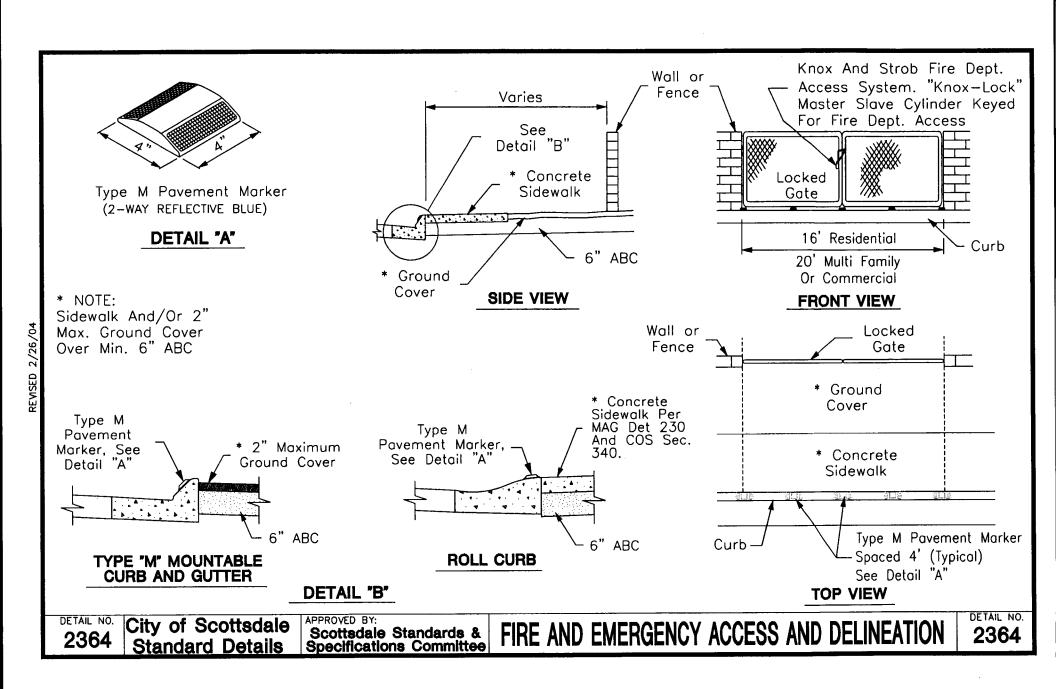
2363

City of Scottsdale Standard Details APPROVED BY:

Scottsdale Standards & Specifications Committee

PAVEMENT MARKERS FOR FIRE HYDRANTS

DETAIL NO.





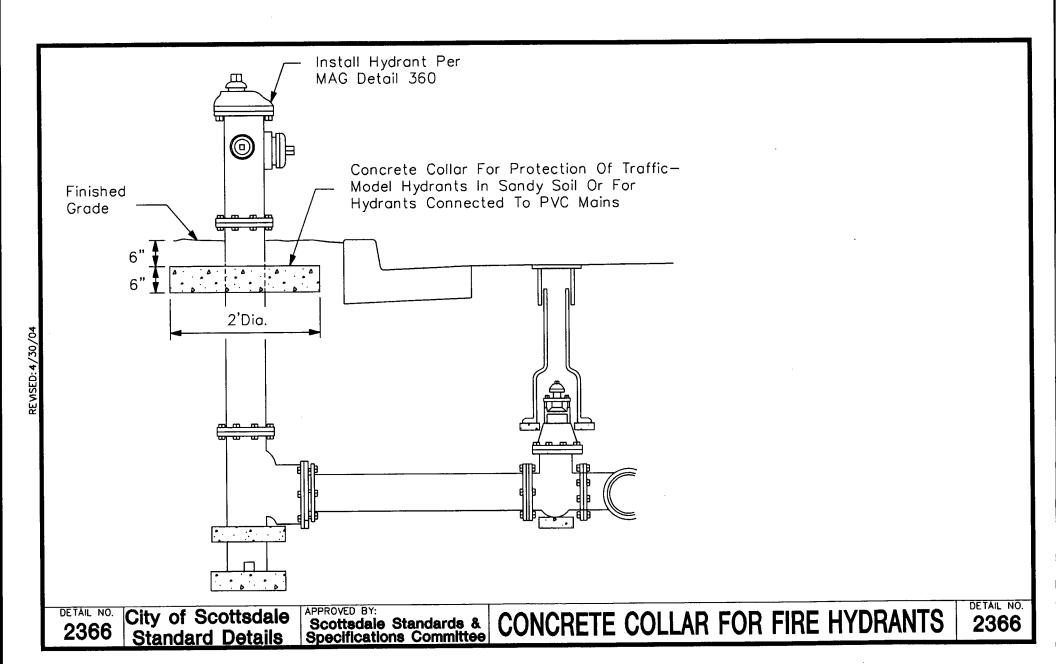
NOTES:

- 1. At the beginning and end of the fire lane, the sign shall have a single headed arrow pointing in the direction the regulation is in effect. The intermediate signs shall have double headed arrows pointing in both directions.
- 2. The maximum spacing of the signs shall be 100', contingent upon Traffic Engineering's review and approval.
- 3. The signs shall be set at an angle of not less than 30° nor more than 45° with the curb or line of traffic flow
- 4. The clearance to the bottom of the sign shall be 7 feet. There shall be no other signs attached to the sign or the sign pole.
- 5. The sign plate shall be a minimum of 12" x 18" with a thickness of 0.80".
- 6. The sign face shall have a white, ASTM Type II (super engineering grade) reflective background with a red reflective legend. Use the standard sign face number R7-32 or equivalent incorporating additional information to complete the sign as shown above.

2365 City of Scottsdale Standard Details

APPROVED BY:
Scottsdale Standards &
Specifications Committee

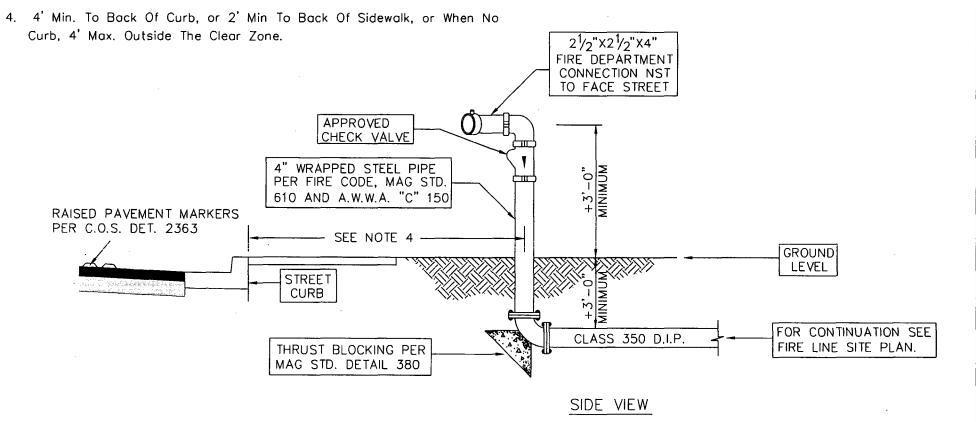
FIRE LANE SIGN



- 1. Provide Building I.D. On Remote Fire Dept. Connection.
- 2. No Trees, Bushes Or Walls Within 5' Radius Of Fire Dept. Connection
- 3. If Fire Sprinkler Design Indicates Demand Of 1000 GPM Or Greater, The Underground Fire Dept. Connection Line Shall Be Increased To 6" Diameter With A Three Way 2½" Fire Dept. Hose Connection

21/2"X21/2"X4"
FIRE DEPARTMENT GROOVED 90' ELL

TOP VIEW

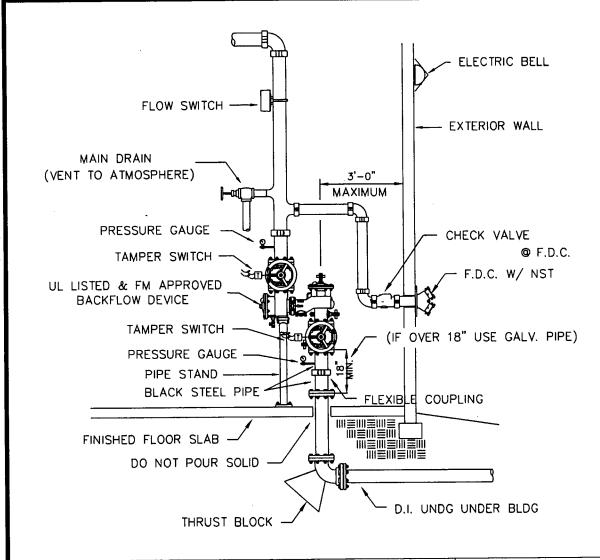


DETAIL NO. **2367**

City of Scottsdale Standard Details APPROVED BY:

Scottsdale Standards & Specifications Committee

FIRE DEPARTMENT REMOTE SIAMESE CONNECTION



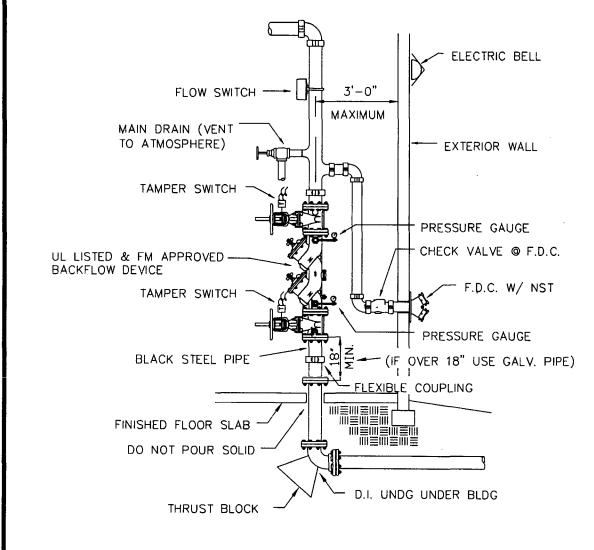
- 1. BACKFLOW PREVENTER SHALL BE TESTED FOR PROPER OPERATION PER CITY OF SCOTTSDALE REQUIREMENTS BY A CERTIFIED TESTER RECOGNIZED BY THE CITY, BEFORE A TEMPORARY CERTIFICATE OF OCCUPANCY IS ISSUED.
- 2. ADEQUATE CLEARANCE SHALL BE PROVIDED AROUND FIRE RISER. DIMENSIONS FROM FACE OF PIPE SHALL MEASURE A MINIMUM OF 12" OFF THE BACK WALL, 18" ON EACH SIDE AND 36" CLEAR IN FRONT WITH A FULL HEIGHT DOOR. THE FIRE LINE SHALL EXTEND A MAXIMUM OF 3' INTO THE BUILDING FROM INSIDE FACE OF WALL TO CENTER OF PIPE.
- 3. RISER SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR TWO HOURS.
- 4. AT #1 & #4 TEST PORTS INSTALL A 1/2" BRASS NIPPLE, TEE & PLUGS W/1/2" x 1/4" MALE FLARED CONNECTION W/ CAP (INSTALL PRESSURE GAUGE ON TEE OUTLET)

DETAIL NO. City of Scottsdale 2368 Standard Details

APPROVED BY:

Scottsdale Standards & **Specifications Committee** FIRE SPRINKLER RISER DETAIL - VERTICAL INSTALLATION #1

DETAIL NO.



- 1. BACKFLOW PREVENTER SHALL BE TESTED FOR PROPER OPERATION PER CITY OF SCOTTSDALE REQUIREMENTS BY A CERTIFIED TESTER RECOGNIZED BY THE CITY, BEFORE A TEMPORARY CERTIFICATE OF OCCUPANCY IS ISSUED.
- 2. ADEQUATE CLEARANCE SHALL BE PROVIDED AROUND FIRE RISER, DIMENSIONS FROM FACE OF PIPE SHALL MEASURE A MINIMUM OF 12" OFF THE BACK WALL, 18" ON EACH SIDE AND 36" CLEAR IN FRONT WITH A FULL HEIGHT DOOR. THE FIRE LINE SHALL EXTEND A MAXIMUM OF 3' INTO THE BUILDING FROM INSIDE FACE OF WALL TO CENTER OF PIPE.
- RISER SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR TWO HOURS.
- 4. AT #1 & #4 TEST PORTS INSTALL A 1/2" BRASS NIPPLE. TEE & PLUGS W/1/2" x 1/4" MALE FLARED CONNECTION W/ CAP (INSTALL PRESSURE GAUGE ON TEE OUTLET)

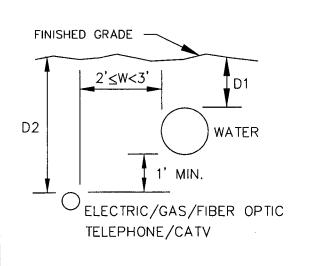
DETAIL NO. 2369

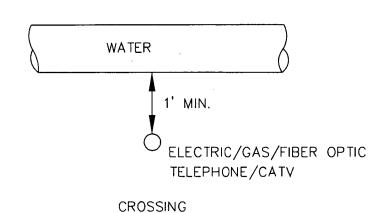
City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & FIRE SPRINKLER RISER DETAIL - VERTICAL INSTALLATION #2

DETAIL NO.





LEGEND

D1 = 3' Min. for pipe < 12" dia

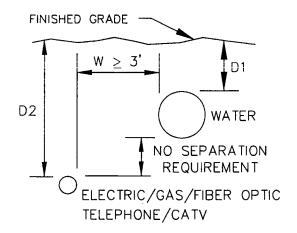
D1 = 4' Min. for pipe \geq 12" dia

D2 = Minimum Cover

= Horizontal Separation

NOTES

- Electric separation requirements are for primary electric conductors only. For service conductors see plans.
- Primary electric, gas, telephone, cable TV or fiber optic lines shall not cross above a water line without written approval from the City's Water Resources Department. If this approval is obtained, a utility locator strip and ABC slurry conforming to COS Specifications Sec. 601.3.6 are required.

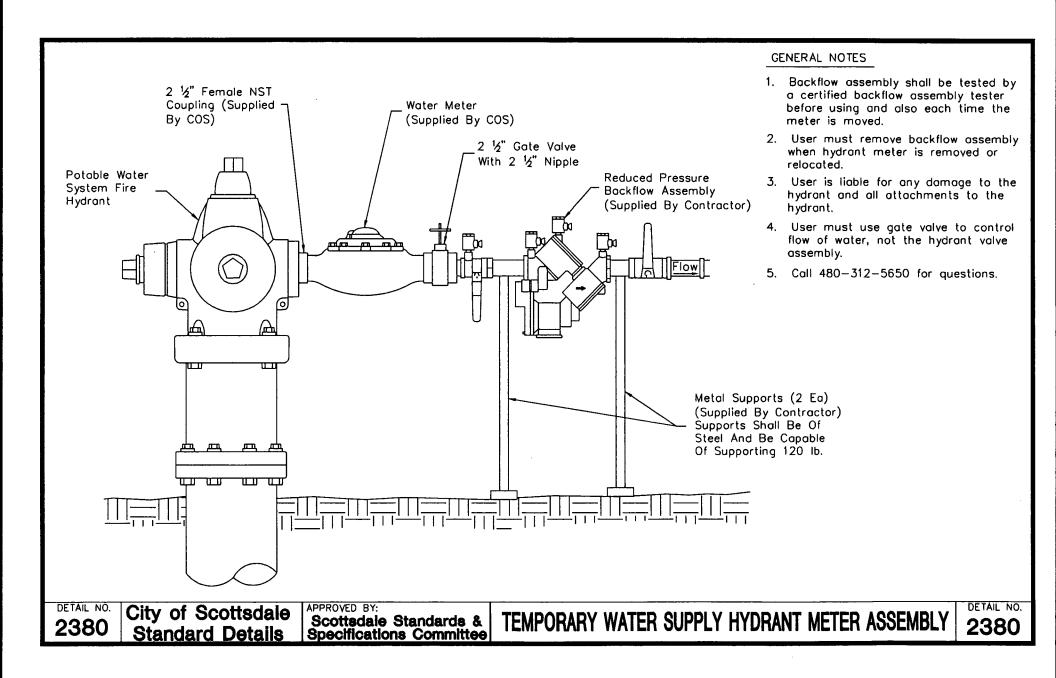


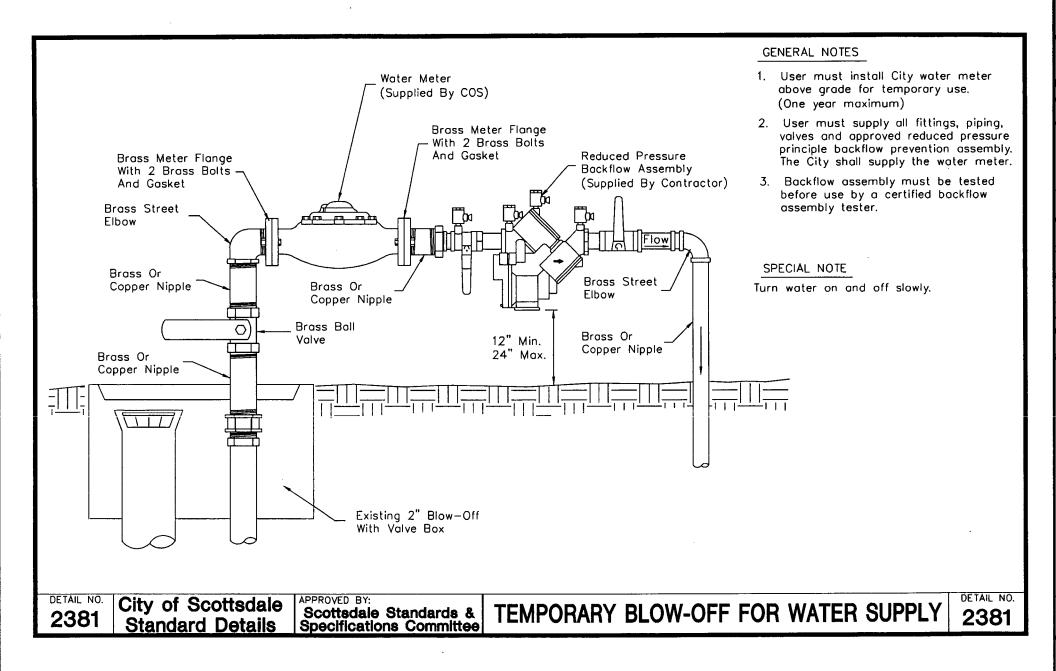
2372

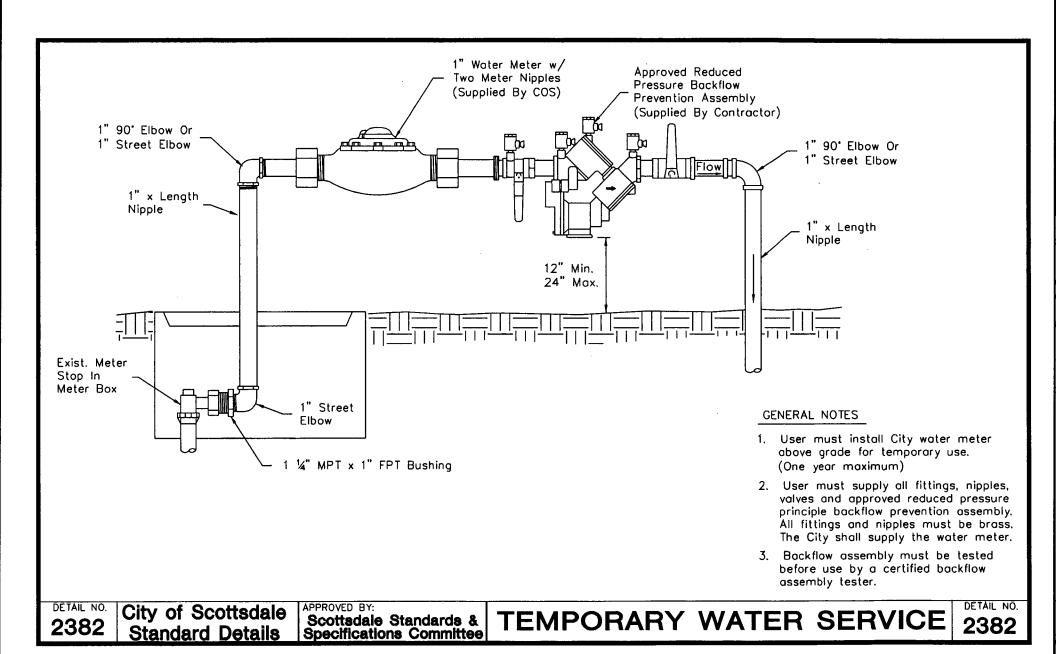
City of Scottsdale Standard Details

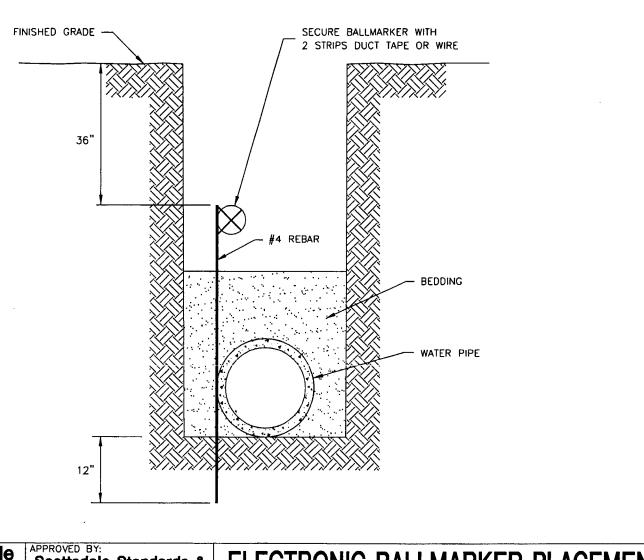
APPROVED BY:

Scottsdale Standards & **Specifications Committee** MINIMUM UTILITY SEPARATION REQUIREMENTS









2397

City of Scottsdale Standard Details APPROVED BY:
Scottsdale Standards &
Specifications Committee

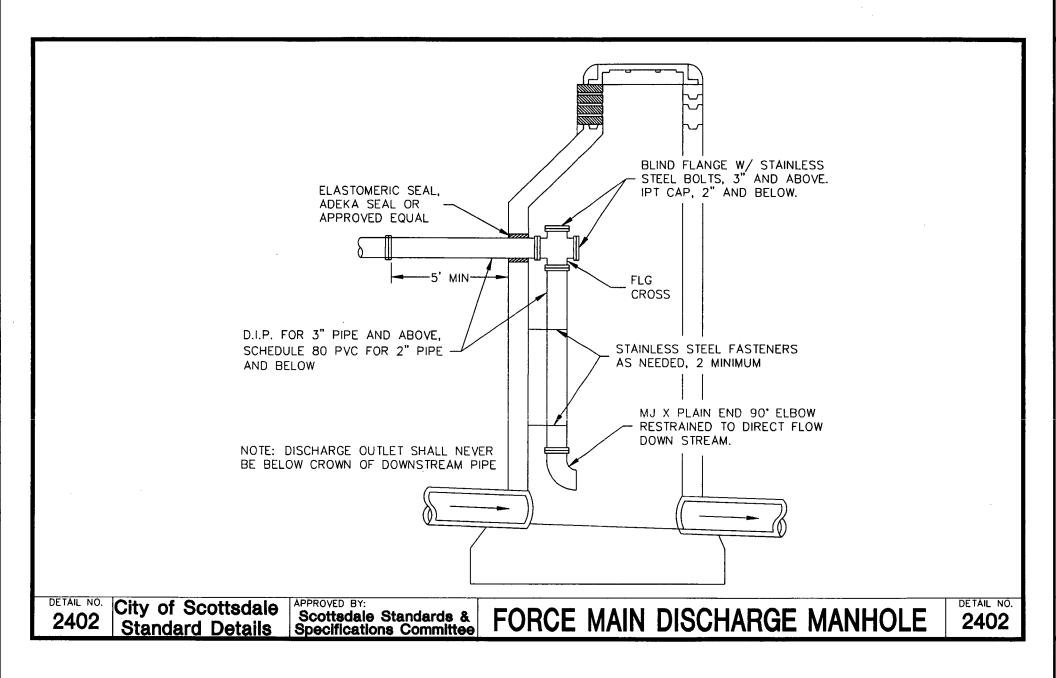
ELECTRONIC BALLMARKER PLACEMENT

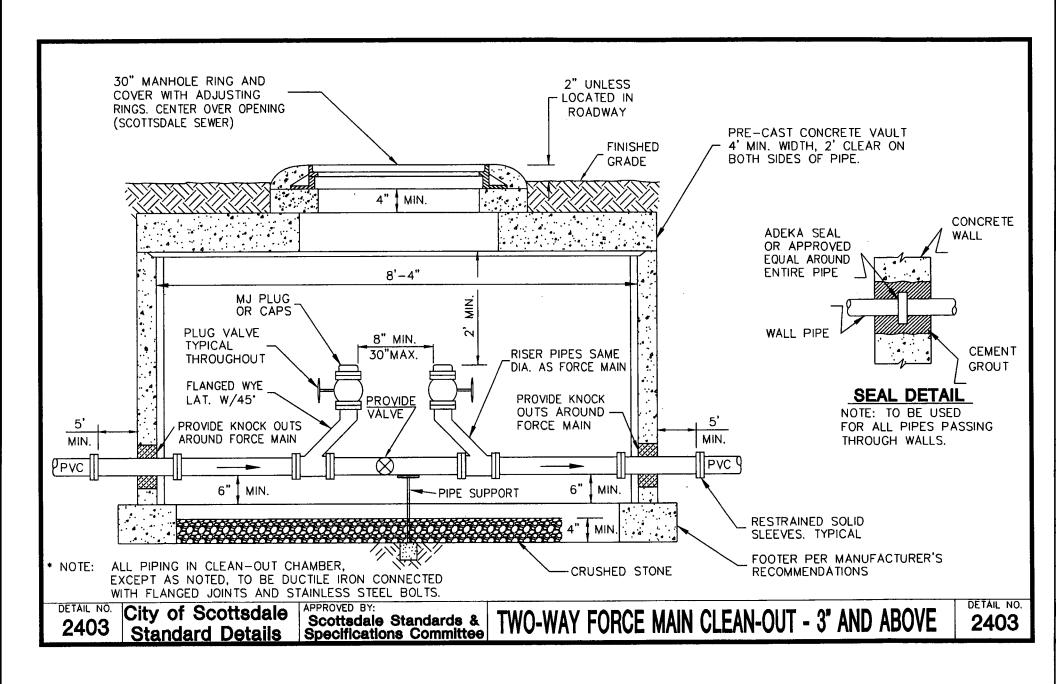
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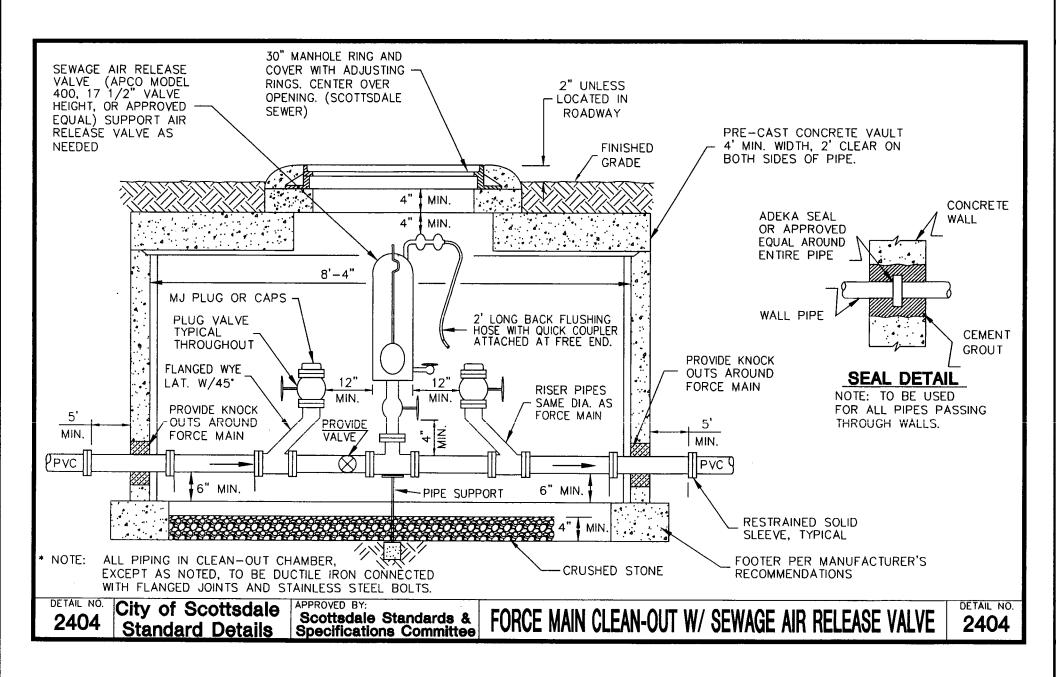
LIST OF MATERIALS

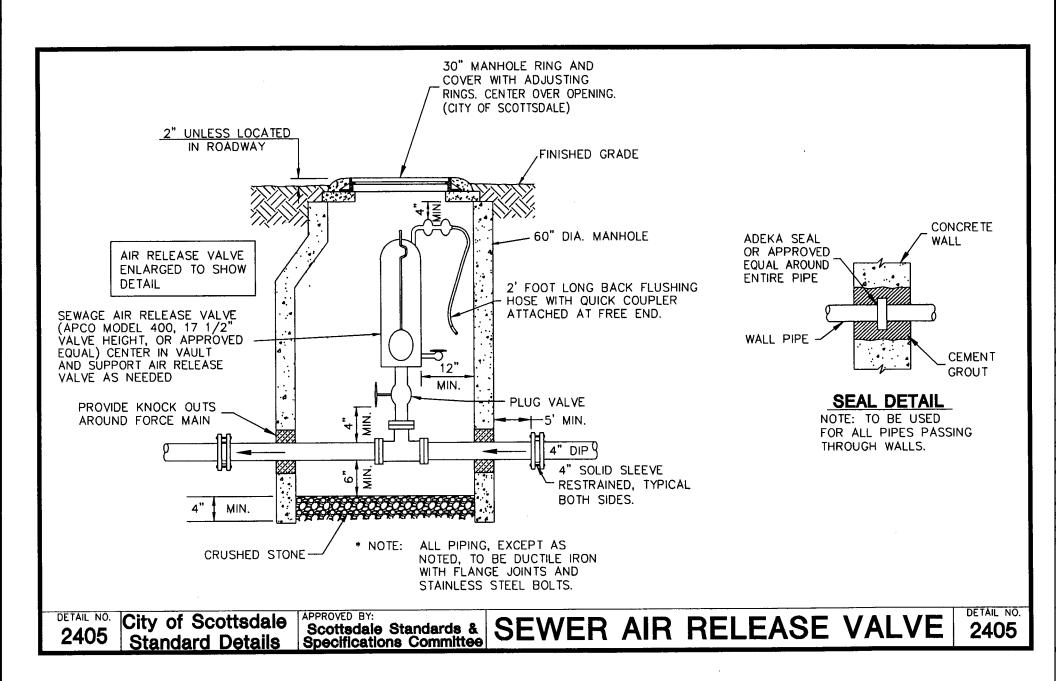
- 2" Galvanized Rigid Steel Conduit
- (3) 2 1/2" To 2" Galvanized Steel Reducer
- (4) 2 1/2" Galvanized Rigid Steel Conduit
- (5) 1/2" Set Screw (Typ. 4 Each)
- (6) 1" Rigid Steel Conduit, Strap To Mast Install Bushing On Top Of Conduit
- 3" Galvanized Rigid Steel Conduit
- (8) PVC To Rigid Steel Conduit Fitting
- Concrete Foundation, Class "B"
- 1" PVC Conduit To Radio Transceiving Unit
- #5 Rebar (8" Length) Welded To 3" Conduit (Typ. 4 Each)
- 5/8"ø x 8' Long Grounding Rod
- (14) Ground Attached To 3" Conduit Using Lug And Self Topping Screw
- (15) Install YAGI Or Omnidirectional Antenna Per Contract Documents

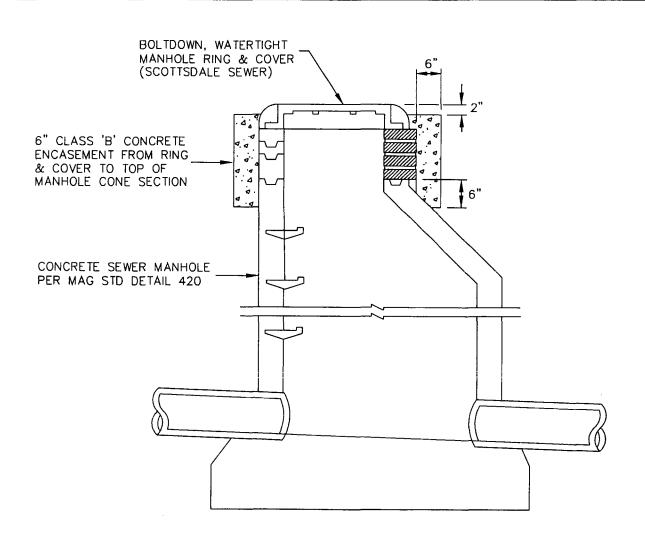
Specifications Committee











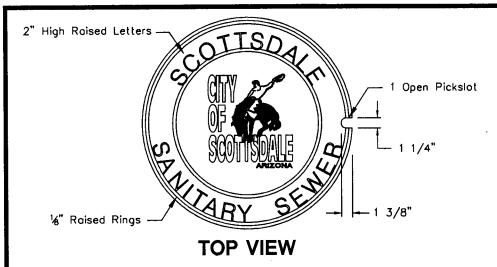
DETAIL NO. **2420**

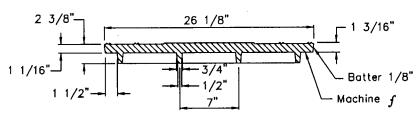
City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

WATER TIGHT CONCRETE SEWER MANHOLE





SECTION OF COVER

24" MANHOLE COVER

NOTES

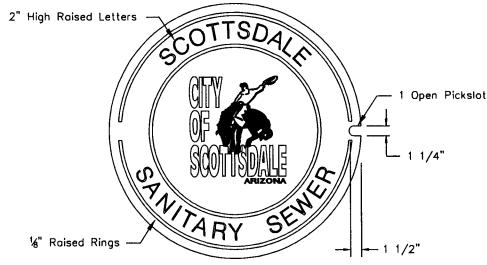
- 1. Material: Cast Gray Iron ASTM A-48, Class 35B, Unpainted
- 2. The Total Width Of Individual Letters To Be Such That Letters And Words Are Equally Spaced And Balanced.
- Letters To Be 2" In Height And Raised 1/8" Above Level Of Cover. Type Of Letters To Be Submitted For Approval.
 Weight Of Castings Shall Be No More Than 2% Less Than Weight Specified. Castings Shall Conform To M.A.G. Section 787.

City of Scottsdale Standard Details

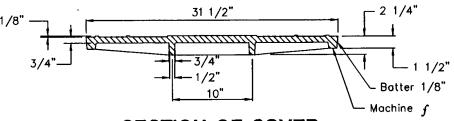
APPROVED BY: Scottsdale Standards & Specifications Committee

SANITARY SEWER MANHOLE COVER

DETAIL NO 2421

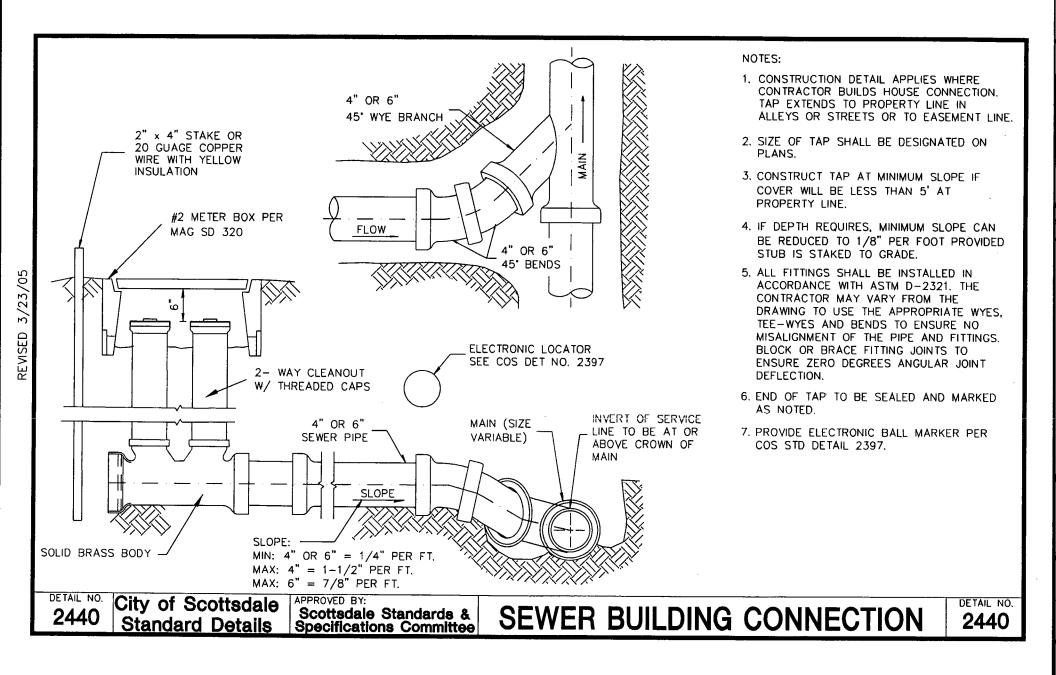


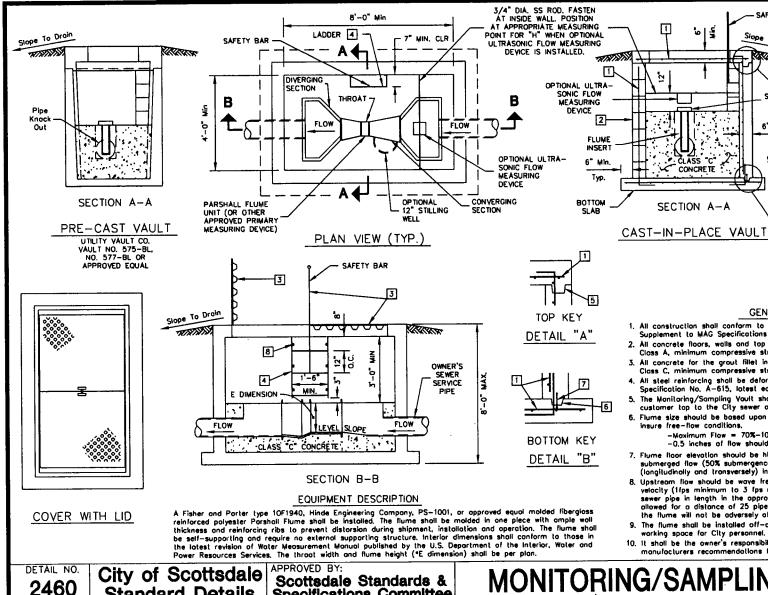
TOP VIEW



SECTION OF COVER

30' MANHOLE COVER





NOTES:

SAFETY BAR

lope to Drain

DETAIL "A"

SUPPORT

BRACE

6" Min.

Тур.

- 1 Reinforced steel and clearance as opproved by the engineer.
- 2 Block masonry may be used in lieu of CIP walls. 8" block masonry, grout each cell to full hieght (grout per MAG Section 776).
- 3 2 Torsion spring assisted galyanized diamond plate access doors (design loading AASHO-H20) locking with type 304SS hardware and safety bar (Bitco Model LU-3, or approved equal)
- 4 Lodder shall be furnished and installed in accordance with the detail and shall meet the requirements of OSHA for Type IA (300 lbs) fixed ladders, single section. Details of ladder construction, along with a certification that the ladder meeets or exceeds OSHA requirements for Type IA (300 lbs) service shall be submitted for review prior to furnishing and installing. Mill finished aluminum ladder or approved corrosion resistant material.
- 2"x 4" key, center on wall. (Install rope coulk continuously).
- 1-5/8"x 2-1/2"x 3" key.
- 4" PVC dumbell type continuous waterstop 3/8" min, thickness, (Wash thoroughly prior to installation.
- 8 Anchor strops (3 eoch side) with 5/8" x 3-1/2" 316SS anchor bolts with lock washer and nut.

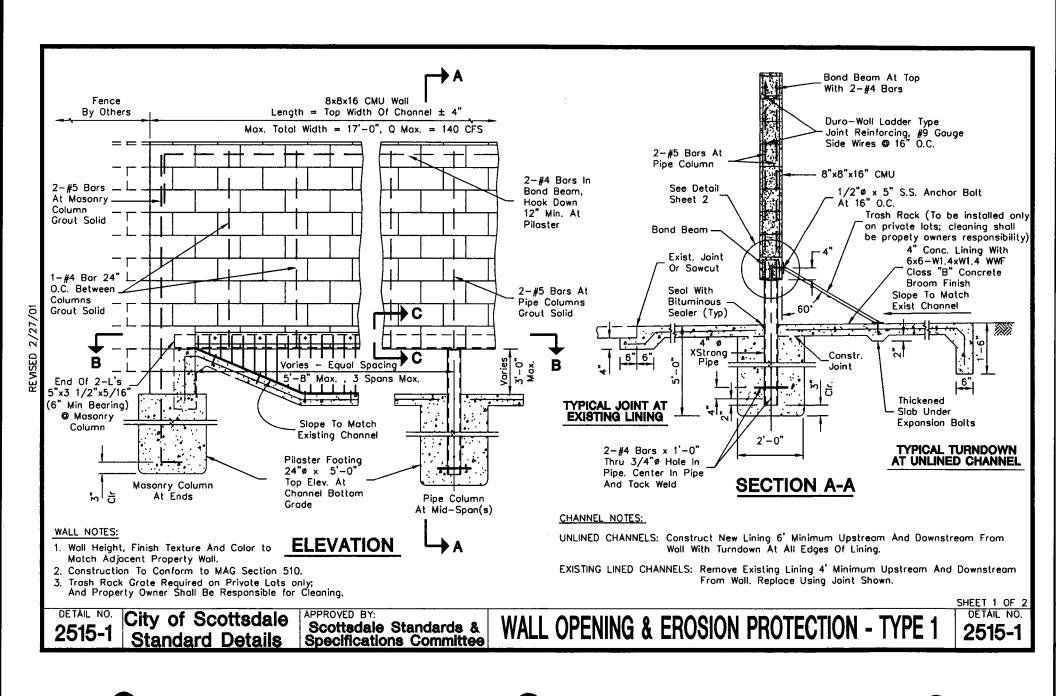
GENERAL NOTES

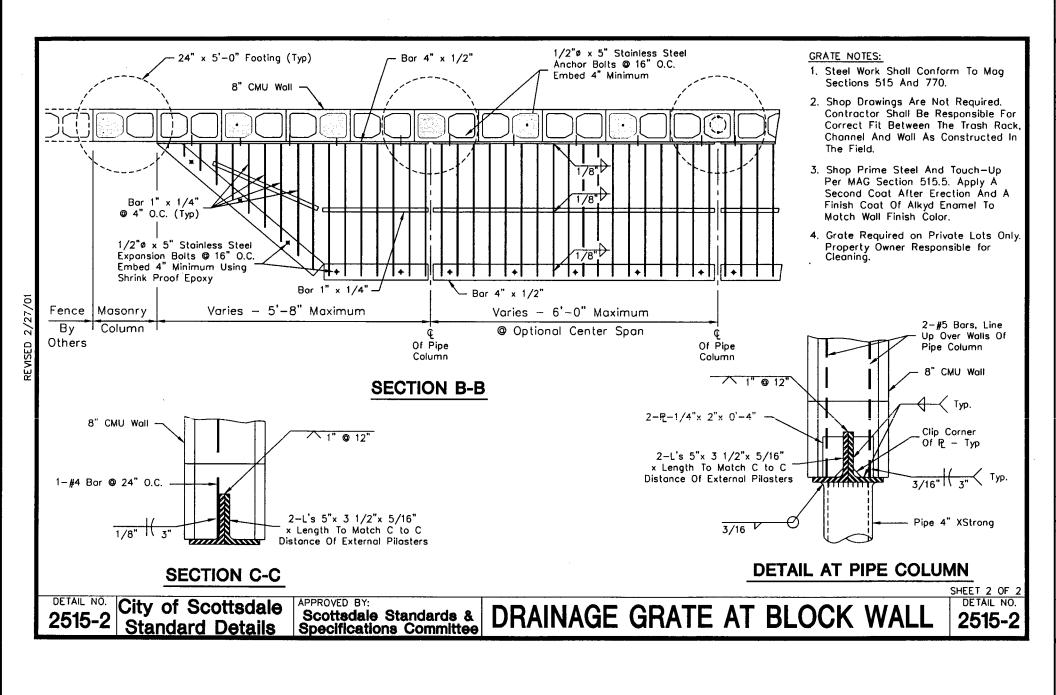
- 1. All construction shall conform to MAG Specifications and Details and City of Scattsdale Supplement to MAG Specifications and Details, unless modified on the plans.
- 2. All concrete floors, walls and top slab of the structure shall conform to MAG section 725. Class A. minimum compressive strength at 28 days = 3,000 psi.
- 3. All concrete for the grout fillet inside the structure shall conform to MAG Section 725, Class C, minimum compressive strength at 28 days = 2,000 psi.
- 4. All steel reinforcing shall be deformed bors, Grade 50, billet steel conforming to ASTM Specification No. A-615, latest edition.
- 5. The Monitoring/Sampling Vault shall be installed on the owner's property as close to the customer top to the City sewer as feasible, and approved by the City of Scottadole.
- 6. Flume size should be based upon the minimum and maximum flow rates and velocities to insure free-flow conditions.
 - -Maximum Flow = 70%-100% of maximum capacity of selected flume size. -0.5 inches of flow should exist at the minimum actual flow.
- 7. Flume floor elevation should be high enough, relative to downstream conditions, to prevent submerged flow (50% submergence is occeptable at maximum flow), install the flume level (longitudinally and transversely) in the converging section.
- 8. Upstream flow should be wave free, non-turbulent, and symmetrical having a uniform velocity (1fps minimum to 3 fps maximum) at least 10 times the diameter of the upstream sewer pipe in length in the approach channel. Bends upstream in the flume will NOT be allowed for a distance of 25 pipe diameters unless conditions in the approach section of the flume will not be adversely affected.
- 9. The flume shall be installed off-center and away from the ladder to allow the maximum working space for City personnel.
- 10. It shall be the owner's responsibility to properly maintain the flume in accordance with the manufacturers recommendations to ensure the accuracy of the measurement.

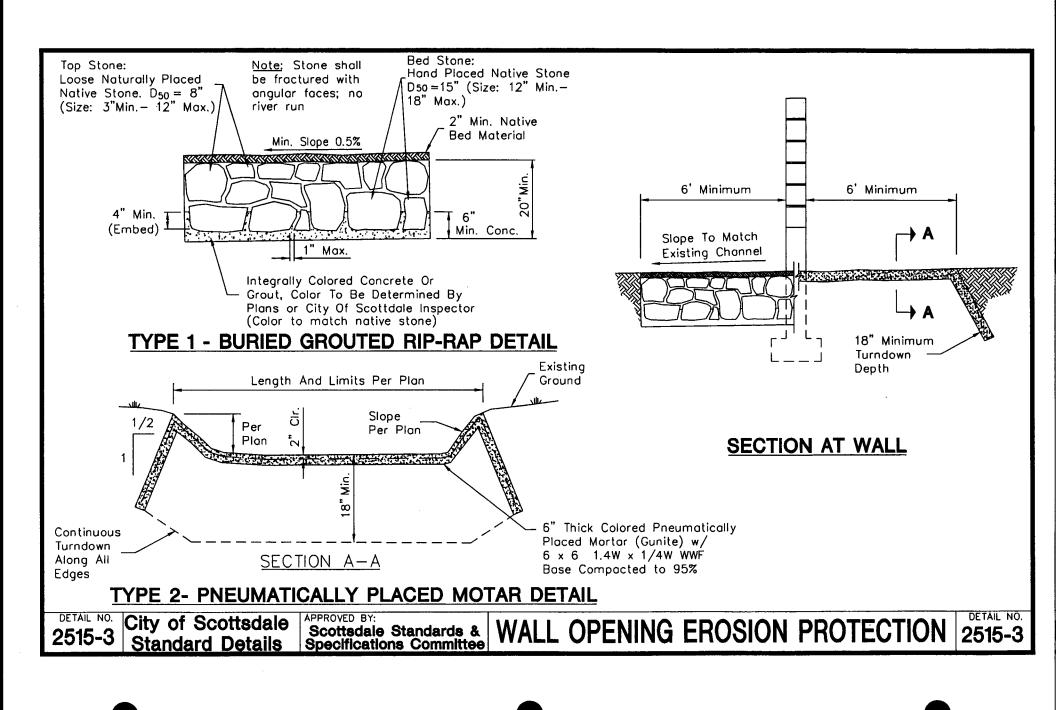
Standard Details

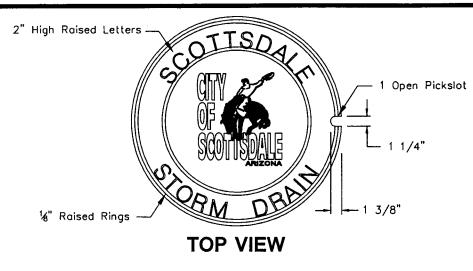
Scottsdale Standards & Specifications Committee

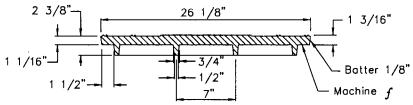
MONITORING/SAMPLING VAULT











SECTION OF COVER

24" MANHOLE COVER

NOTES

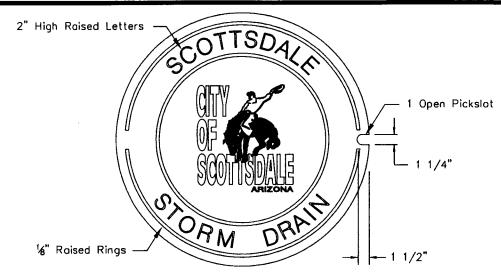
- 1. Material: Cast Gray Iron ASTM A-48, Class 35B, Unpainted
- 2. The Total Width Of Individual Letters To Be Such That Letters And Words Are Equally Spaced And Balanced.
- Letters To Be 2" In Height And Roised 1/8" Above Level Of Cover. Type Of Letters To Be Submitted For Approval.
 Weight Of Castings Shall Be No More Than 2% Less Than Weight Specified. Castings Shall Conform To M.A.G. Section 787.

DETAIL NO. City of Scottsdale 2520 Standard Details

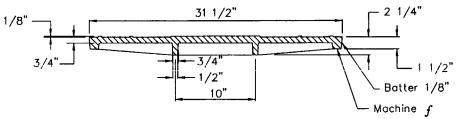
APPROVED BY: Scottsdale Standards & Specifications Committee

STORM DRAIN MANHOLE COVER

DETAIL NO. 2520

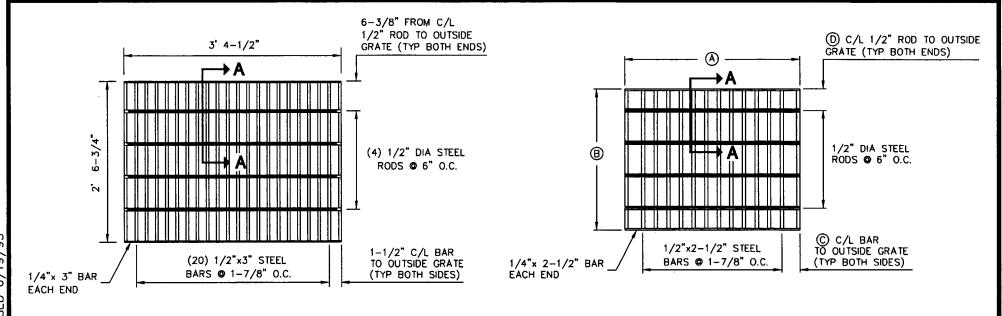


TOP VIEW



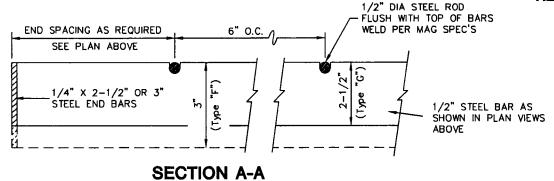
SECTION OF COVER

30" MANHOLE COVER



GRATE FOR TYPE "F" CATCH BASIN REPLACES GRATE SHOWN IN MAG DETAIL NO 535

GRATE FOR TYPE "G" CATCH BASIN REPLACES GRATE SHOWN IN MAG DETAIL 537



NOTES:

 ALL MATERIALS AND FABRICATION TO BE AS SPECIFIED IN MAG STANDARD DETAIL NO. 540-2

ſ	TYPE	"G" GRATE	DIMENSIONS
		SINGLE GRATE	DOUBLE GRATE
	lacktriangle	2'-2"	4'-3 1/2"
	B	2'-2"	2'-2"
	0	2-11/16"	2-5/16"
	(0)	0'-4"	0'-3 3/4"

2535

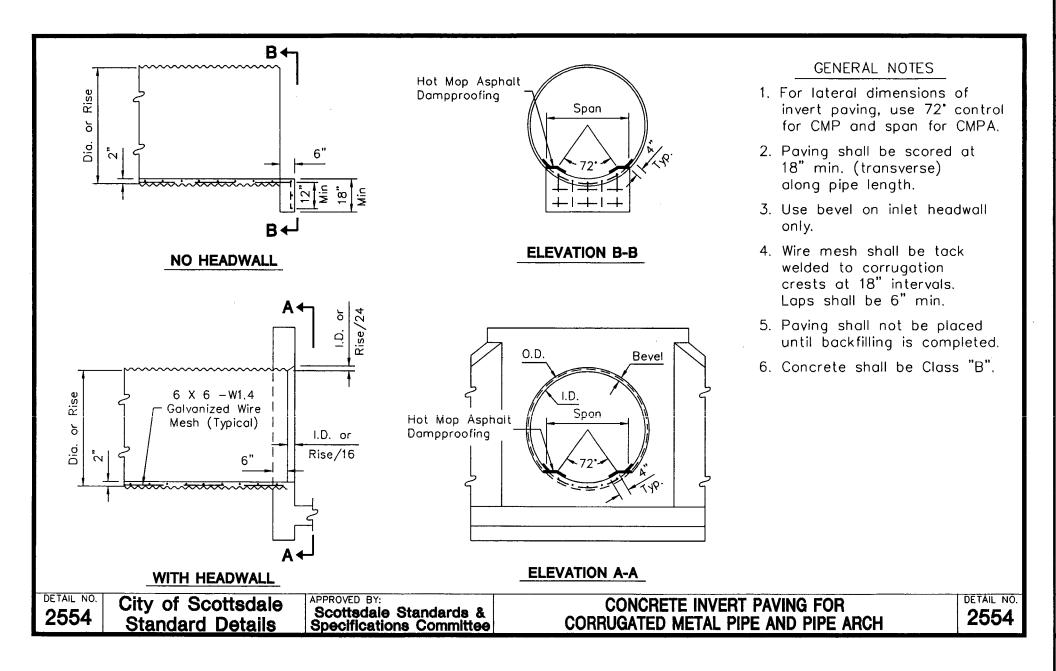
City of Scottsdale Standard Details

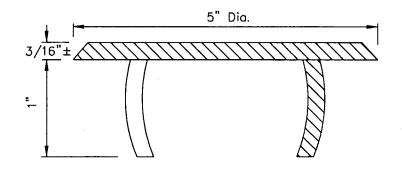
APPROVED BY:

Scottsdale Standards & Specifications Committee

CATCH BASIN GRATES

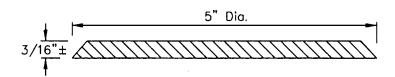
2535





TYPE "A:

TO BE INSTALLED IN WET CONCRETE **DURING CONSTRUCTION**



TYPE "B"

TO BE INSTALLED WITH ADHESIVE ON EXISTING STRUCTURES



- 1. Material: Cast Aluminum
- 2. The Total Width Of Individual Letters To Be Such That Letters And Words Are Equally Spaced And Balanced.
- 3. Letters To Be 1/2" In Height. Type Of Letters To Be Submitted For Approval.

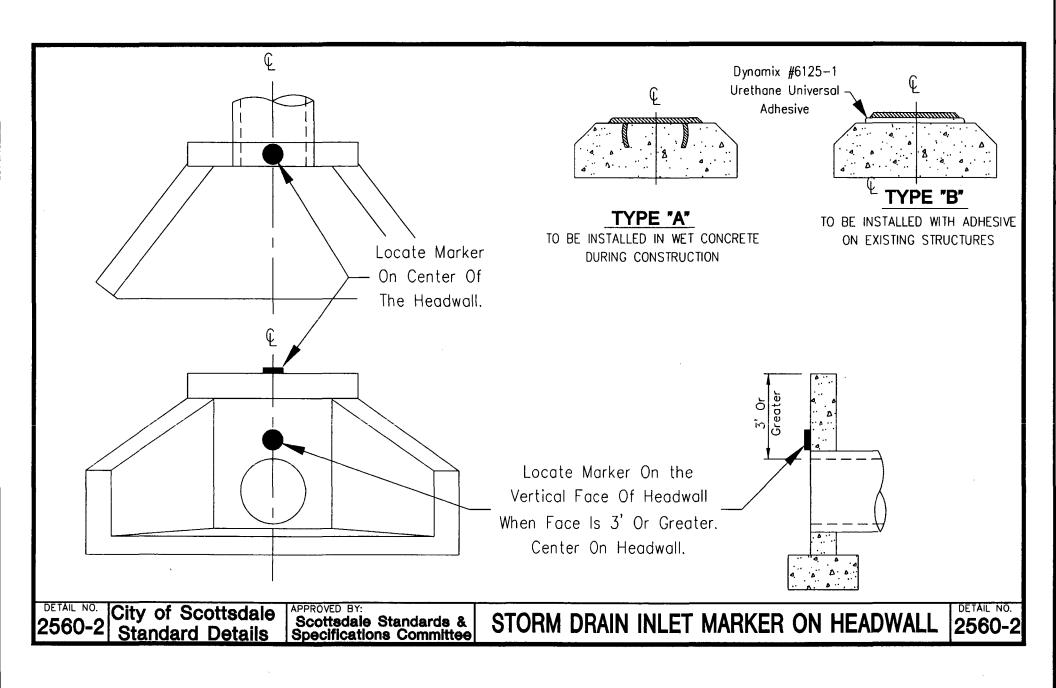
City of Scottsdale Standard Details

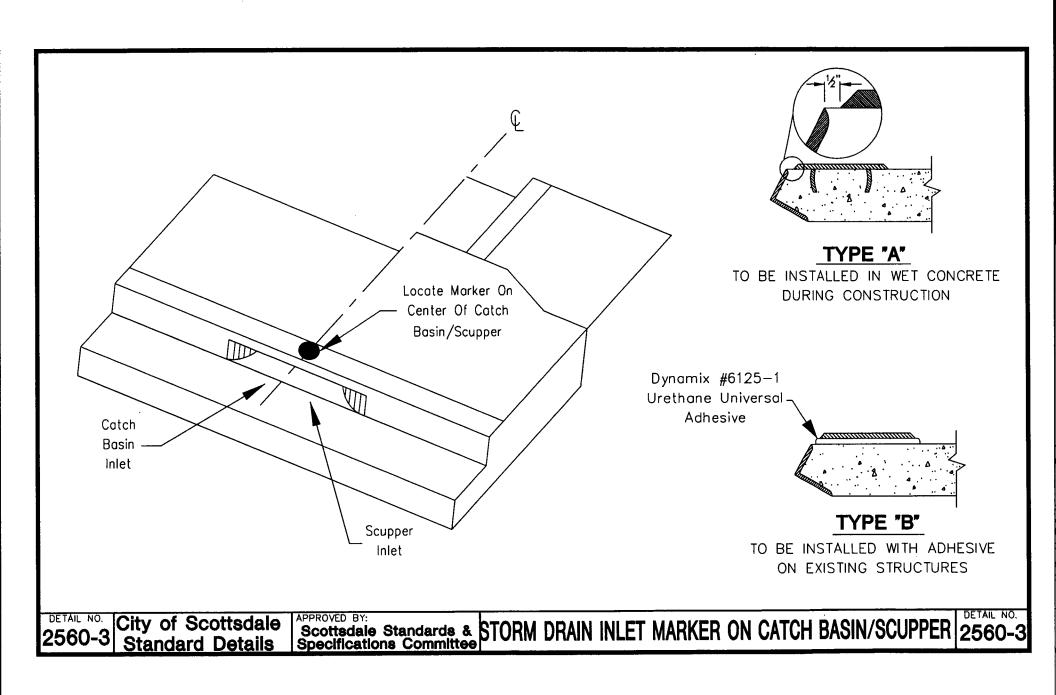
APPROVED BY:
Scottsdale Standards &
Specifications Committee

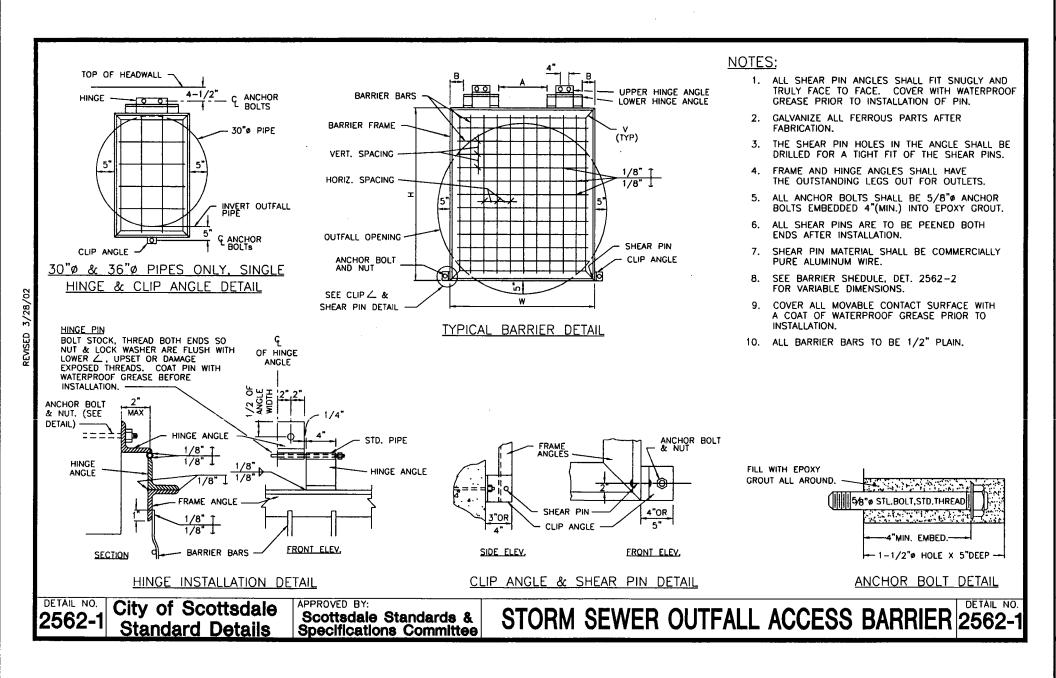
STORM DRAIN INLET MARKER

DETAIL NO. 2560-









/02	
3/28	
REVISED:	
RE	

ου	SIZE OF JTFALL)NDUIT	FRAME ANGLES	SHEAR PIN CLIP ANGLES	SHEAR PINS	HINGE PINS	HINGE ANGLES	HINGE STD. PIPE	NO. OF EQUAL BARRIER BAR SPACES (HORIZ.)	NO. OF EQUAL BARRIER BAR SPACES (VERT.)	H (OUT TO OUT FRAME ANGLES)	W (OUT TO OUT FRAME ANGLES)	Α	В
	30"	2X2X1/4	4X4X1/4	1-1/8ø	1/2"ø	2X2X1/4	3/4"	3	5	34"	20"	SINGLE CENTE	HINGE RED
	36"	2X2X1/4	4X4X1/4	1-1/8ø	3/4"ø	2-1/2X 2-1/2X1/4	1"	4	6	40"	26"	SINGLE CENTE	HINGE RED
4	42"	2X2X1/4	4X4X1/4	2-1/8ø	1/2 " ø	2X2X1/4	3/4"	5	6	42"	32"	0	0
4	48"	3X3X7/16	5X3X1/4	2-1/8ø	3/4"ø	2-1/2X 2-1/2X1/4	· 1"	5	7	47"	38"	3"	1 "
ž0 (54"	3X3X7/16	5X3X1/4	2-1/80	3/4"ø	2-1/2X 2-1/2X1/4	1"	6	8	54"	44"	5"	3"
20/02/05	60"	3X3X7/16	5X3X1/4	2-1/8ø	3/4"ø	2-1/2X 2-1/2X1/4	1"	7	9	60"	50"	9"	4"
NEVISED.	66"	3X3X7/16	5X3X1/4	2-1/8ø	3/4"ø	2-1/2X 2-1/2X1/4	1"	8	10	66"	56"	11"	6"
NE.	72"	4X4X5/8	5X3X1/4	2-3/16ø	1"ø	3x3x3/8	1-1/4"	9	11	73"	62"	15"	7"
-	78"	4X4X5/8	5X3X1/4	2-3/16ø	1"ø	3x3x3/8	1-1/4"	10	11	79"	68"	17"	9"
8	84"	4X4X5/8	5x3x1/4	2-3/16ø	1"ø	3x3x3/8	1-1/4"	11	13	86"	74"	21"	10"
9	90"	4X4X5/8	5x3x1/4	2-3/16ø	1 "ø	3x3x3/8	1-1/4"	12	13	92"	80"	23"	12"
9	96"	4X4X5/8	5X3X1/4	2-3/16ø	1 "ø	3x3x3/8	1-1/4"	12	14	98"	86"	29"	12"

*NOTE: Adjust these values for skewed conduits. Provide 5" maximum opening at each side and between bars.

City of Scottsdale Standard Details

APPROVED BY:
Scottsdale Standards &
Specifications Committee

BARRIER SPECIFICATIONS SCHEDULE 2562-2

	Size	Height	Width	Caliper		Size	Height	Width	Caliper		Size	Height	Width	Caliper		Size	Height	Width	Caliper		Size	Height	Width	Caliper
Name	ŝ	Ĭ	≥	<u> </u>	Name	ŝ	Ĭ	3	<u>"</u>	Name	Š		3	Ű	Name	<u>is</u>	Ĭ	≥	<u> </u>	Name	S		_	_
<u>ACACIA</u>					ACACIA (Cont.)					ARGENTINE MESQUITE	15	5	3	0.75	VELVET\ ARIZONA (M)	\rightarrow	5.5	3	0.5	SONORAN	15	6	2	0.76
BLUE LEAF WATTLE	15	6	2	0.75	WEEPING	15	5	2	0.75	(M) (PROSOPIS ALBA)	24	8	5	1.25	(PROSOPIS VELUNTINA)	24	7	4	1	(CERCIDIUM PRAECOX)	24	7	4	1.5
(ACACIA SALIGNA)	24	8	4	1.5	(ACACIA PENDULA)	24	6.5	3	1.25		30	9	7	1.5		30	9	6	1.5		30	8	6	2
	30	10	5	2		30	9	5	2		36	11	9	2		36	10	8	2		36	10	8	2.5
	36	12	6	2.5		36	11	6	2.5		42	13	11	2.5		42	12	10	2.5		42	11	10	3
BERLANDER\ GUAJILLO	15	4	2	0.5	WILLOW \	15	6	2	0.75		48	15	13	3		48	14	12	3		48	12	12	3.5
(M) (ACACIA BERLANDIERI)	24	5	4	1	AUSTRALIAN WILLOW	24	8	4	1.5	MESQUITE (Cont.)					<u>PALOVERDE</u>					SONORAN (M)	15	5	2	0.5
	30	7	5	1.5	(ACACIA SALICINA)	30	10	5	2	CHILEAN MESQUITE	15	6	2	0.75	BLUE PALO VERDE	15	6	2	0.75	(CERCIDIUM PRAECOX)	24	7	4	1
	36	9	6	2		36	14	6	2.5	(PROSOPIS CHILENSIS)	24	8	4	1.5	(CERCIDIUM FLORIDUM)	24	7.5	4	1.5		30	8	6	1.5
MULGA	15	5	2	0.75							30	9	6	2		30	9	7	2		36	10	8	2
(ACACIA ANEURA)	24	7	4	1.5	<u>IRONWOOD</u>						36	10	8	2.5		36	10	8	2.5		42	11	10	2.5
[30	9	6	2	DESERT IRONWOOD	15	3	2	0.5		42	12	10	3		42	12	9	3		48	12	12	3
	36	10	8	2.5	(OLNEYA TESOTA)	24	6	3	1.25		48	14	12	3.5		48	14	10	3.5	OTHER TREES				
SHOESTRING	15	7	2.5	0.75		30	8	6	2	CHILEAN MESQUITE (M)	15	5	3	0.5	BLUE PALO VERDE (M)	15	5	3	0.5	AFRICAN SUMAC	15	7	2	0.75
(ACACIA STENOPHYLLA)	24	9	4	1.5		36	10	8	2.5	(PROSOPIS CHILENSIS)	24	8	5	1	(CERCIDIUM FLORIDUM)	24	7	4	1	(RHUS LANCEA)	24	9	4	1.25
ĺ	30	11	5	2	•	42	11	9	3		30	9	7	1.5		30	8	6	1.5		30	11	6	2
	36	13	6	2.5		48	12	10	3.5		36	10	9	2		36	10	8	2		36	12	8	2.5
	42	15	7	3	DESERT IRONWOOD (M)	15	3	2	0.5		42	12	11	2.5		42	12	9	2.5]	42	14	8	3.5
	48	17	8	4	(OLNEYA TESOTA)	24	6	3	1.25		48	14	13	3		48	14	11	3	1	48	15	9	4
SHOESTRING (M)	15	7	2.5	0.5		30	8	6	2	HONEY MESQUITE (M)	15	6	2	0.75	LITTLE LEAF\ FOOTHILLS	15	4	2	0.5	AFRICAN SUMAC (M)	15	5	3	0.75
(ACACIA STENOPHYLLA)	24	9	4	1		36	10	8	2.5	(PROSOPIS -	24	8	4	1.5	(CERCIDIUM -	24	6	3	1	(RHUS LANCEA)	24	8	4.5	1
	36	13	6	2		42	11	9	3	GLANDULOSA)	30	9	6	2	MICROPHYLLUM)	30	7	5	1.5	1	30	9	7	1.5
SWEET	15	6	2.5	0.75		48	12	10	3.5	i	36	10	8	2.5	İ	36	8	6	2	Ì	36	11	8	2
(ACACIA SMALLII)	24	8	4	1.5	MESQUITE						42	12	10	3	LITTLE LEAF\ FOOTHILLS	15	4	3	0.5]	42	13	9	2.5
	30	9	6	2	ARGENTINE MESQUITE	15	6.5	2	0.75		48	14	12	3.5	(M) (CERCIDIUM -	24	5	4	1]	48	16	10	3
Ì	36	10	8	2.5	(PROSOPIS ALBA)	24	8	4	1.5	SCREW BEAN (M)	15	5.5	3	0.5	MICROPHYLLUM M)	30	6	5	1.5	ALEPPO	15	6	3	0.75
	42	12	10	3		30	9	6	2	(PROSOPIS -	24	8	4	1		36	8	7	2	(PINUS HALEPENSIS)	24	9	4	2
	48	14	12	3.5		36	11	8	2.5	PUBESCENS)	30	9	6	1.5]	30	11	6	3
SWEET (M)	15	5	3	0.5		42	13	10	3	1	36	10	8	2						1	36	14	7	3.5
(ACACIA SMALLII)	24	8	5	1		48	15	12	3.5	1	42	12	10	3						1	42	16	9	4
	30	9	7	1.5	1			-		1	48	14	12	3.5						1	48	18	10	4.5
Ì	36	10	9	2	1					1										1			1	T
	42	12	10	2.5	See General Notes					1										1				1
	48	14	12	3	Detail 2600-3	\vdash	$\neg \neg$			1										1		<u> </u>		\top

2600-1 City of Scottsdale Scottsdale Scottsdale Standards & Specifications Committee MINIMUM TREE SIZE REQUIREMENTS 2600-1

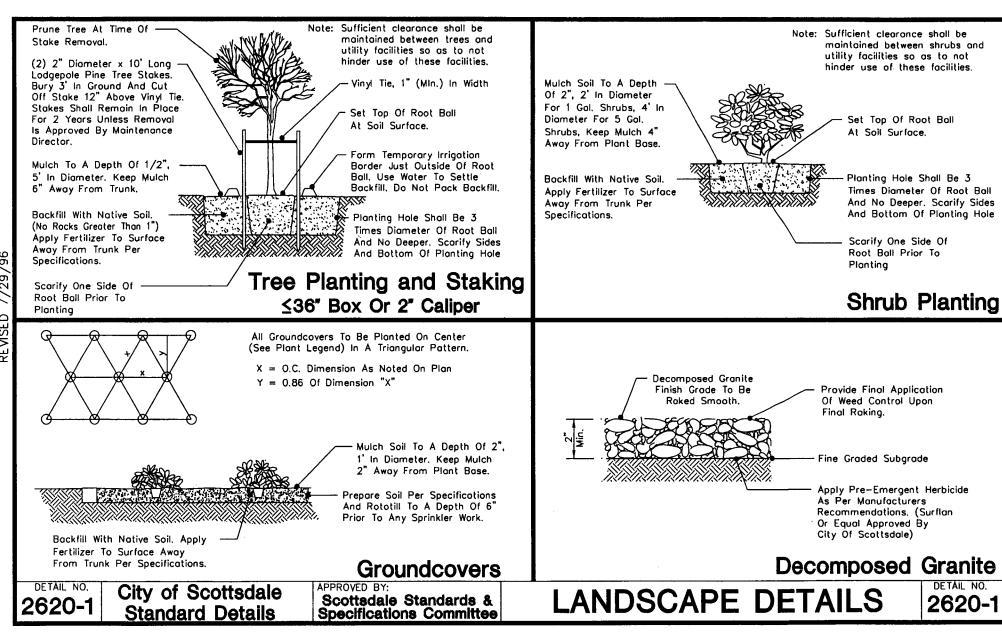
Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper
ARIZONA ASH	15	8	2	1	Canary Island Pine	15	6	2	0.75	COOLIBAH	15	7	3	0.75	FEATHER BUSH	15	5	3	0.75	JACARANDA	15	8	2	0.7
(FRAXINUS VELUTINA)	24	10	4	1.5	(Pinus Canariensis)	24	9	4	2	(EUCALYPTUS -	24	10	4	1.5	FERN OF THE DESERT	24	6.5	4	1.25	(JACARANDA ACUTIFOLIA)	24	9	4	1.5
	30	12	5	2		30	13	5	3.5	MICROTHECA)	30	12	5	2	(LYSILOMA THORNBERI)	30	7	6.5	2		30	12	5	2.5
	36	14	8	2.5		36	17	5	4	•	36	-	6	2.5		36	8	6	2.5		36	14	8	3
	42	15	9	3		42	18	6	4.5	CORK OAK	15	+	2	0.75	FEATHER BUSH\ FERN	15	4	3	0.75		42	16	8	3.5
	48	16	10	3.5		48	22	7	5.5	(QUERCUS SUBER)	24	6.5	3	1.5	OF THE DESERT(M)	24	5	5	1		48	18	9	4
ARIZONA SYCAMORE	15	7	2	1	<u>CAROB</u>	15	8	2	0.75		30	-	4.5	2.5	(LYSILOMA THORNBERI)	30	7	7	1.5	JACARANDA (M)	15	5.5	3	0.5
(PLATANUS WRIGHTII)	24	9	4	1.5	(CERATONIA SILQUA)	24	9	4	1.5		36	12	6	3.5		36	8	8	2	(JACARANDA-	24	8	5	0.75
		13	6	2.5		30	10	5	2		42	14	9	4	FICUS	15	8	2	0.75	ACUTIFOLIA)	30	10	6	1.5
	36	16	8	3.5		36	12	5	3		48	+	11	4.5	(FICUS NITIDA)	24	9	4	1.5		36	12	7	2
ARIZONA SYCAMORE(M)	15	6	3	0.5	CHASTE TREE	15	5	3	0.75	CORRAL GUM	15		-	0.75		30	10	5	2	LEMON BOTTLE BRUSH	15	8	2	0.7
(PLATANUS WRIGHTII)		8	4	1	(VITEX ANGUS-CASTUS)	24	6	4	1.25	(EUCALYPTUS TORQUATA)	24	_	3.5	1.25		36	12	6	3	(CALLISTEMON CITRINUS)	24	9	4	1.2
ļ	30	12	7	2		30	7	5	2	DESERT WILLOW	15	6	2	0.75	FICUS	15	5.5	3	0.5		30	10	5	2
	36	15	9	3		36	8	6	2.5	(CHILOPSIS LINEARIS)	24	7	4	1.25	(FICUS NITIDA M)	24	8	4	1		36	12	6	2.7
AUSTRALIAN WILLOW	15	5	3	0.75	CHINESE EVERGREEN	15	7	2	0.75]	30	-	6	1.75		30	10	6	2	MEDITERANEAN FAN	15	2	2	N\A
WILGA	24	8	4	1.25	ELM	24	8	3	1.25		36	10	8	2.25		36	12	8	2.5	PALM	24	3	3	N\A
(GEIJERA PARVIFLORA)	30	10	5	2	(ULMUS PARVIFOLIA)	30	12	6	2	DESERT WILLOW (M)	15	-	3	0.75	FLOODED GUM	15	8	3	1	(CHAMAEROPS HUMULIS)	30	4	4	N\A
	36	12	5.5	2.5		36	14	8	2.5	(CHILOPSIS LINEARIS)	24	7	5	1	(EUCALYPTUS RUDIS)	24	10	4	1.5		36	5	5	N\A
BOTTLE TREE	15	6	2	1.5		42	16	9	3.5		30	9	6	1.5	FLOWERING CHERRY	15	6	2.5	0.75	MESCAL BEAN\ TEXAS	15	3	1	0.7
(BRACHYCHITON -	24	9	4	2.5		48	18	10	3.75		36	10	8	2	(PRUNUS VARIETIES)	24	9	4	1.25	MOUNTAIN LAUREL	24	4	2	11
POPULNEUS)	30	12	5	4	CHINESE PISTACHE	15	7	2	0.75	ELDARICA	15	6	2	1.5		30	11	8	2	(SOPHORA -	30	5	3	1.7!
	36	15	6	5	(PISTACIA CHINENSIS)	24	9	4	1.5	(PINUS ELDARICA)	24	10	4	2		36	13	10	2.5	SECUNDIFLORA)	36	6	4	2
	42	17	8	6		30	10	5	2.5		30	13	4	3]	42	15	11	3	MESCAL BEAN\ TEXAS	15	3	2	0.7
	48	20	9	6.5		36	12	6	3.5	<u> </u>	36	15	5	4		48	17	12	3.5	MOUNTAIN LAUREL (M)	24	4	3	1
BRAZILIAN PEPPER	15	8	2	0.75	CHIR PINE\ INDIAN	15	5	3	1]	42	18	7	4.5	HONEY LOCUST	15	8	2	0.75	(SOPHORA -	30	5	4	1.5
(SCHINUS -	24	9	4	1.25	LONG LEAF	24	8	4	2		48	20	9	5.5	(GLEDITSIA TRIACANTHOS	24	9	4	1.5	SECUNDIFLORA)	36	6	5	2
TEREBINTHIFOLLA)	30	10	5	2.5	(PINUS ROXBURGHII)	30	11	6	2.5	EVERGREEN PEAR	15	7	2	0.75	INERMIS)	30	10	6	2	MEXICAN PALO VERDE	15	7	3	1
	36	12	8	3		36	15	6.5	3.5	(PYRUS KAWAKAMI)	24	9	4	1.5		36	12	8	2.5	<u>JERUSALEM</u>	24	9	6	1.5
CALIFORNIA PEPPER	15	7	2	0.75		42	17	8	4.5]	30	10	6	2.5		42	14	10	3	(PARKINSONIA ACULEATA)	30	11	9	2.5
(SCHINUS MOLLE)	24	8	4	1.25		48	20	9	5		36	12	8	3.5		48	16	12	3.5		36	12	10	3
	30	10	6	2.5							42	14	10	4]									
1	36	12	8	3	See General Notes						48	16	12	4.5									L	
					Derail 2600-3					7			Ι		1					1			1	

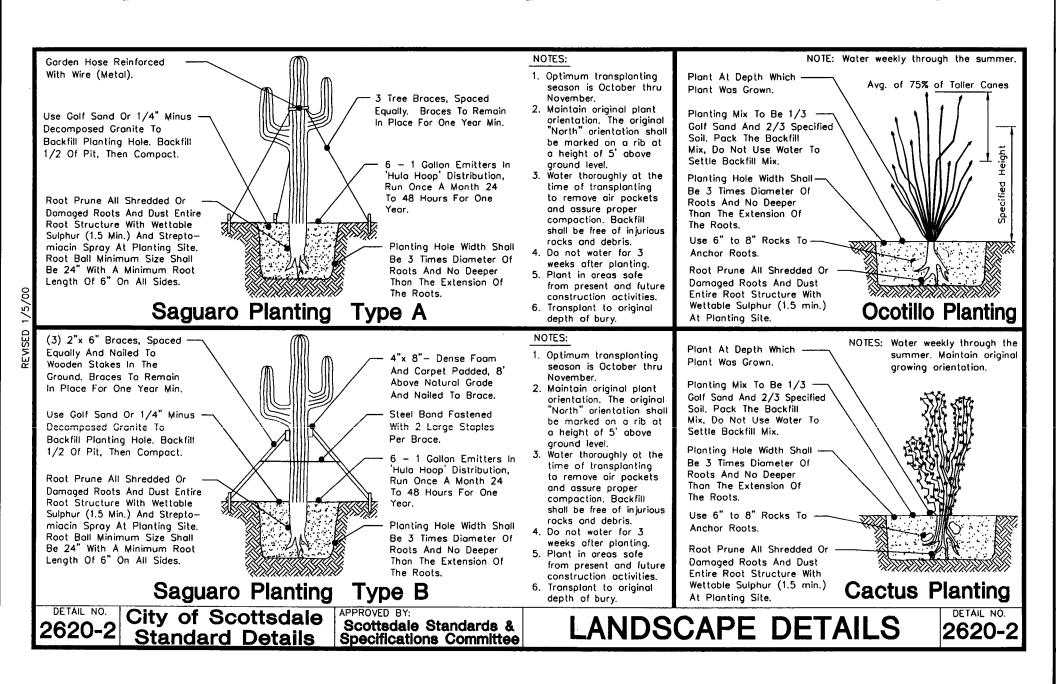
City of Scottsdale Scottsdale Standards & Specifications Committee MINIMUM TREE SIZE REQUIREMENTS 2600-2

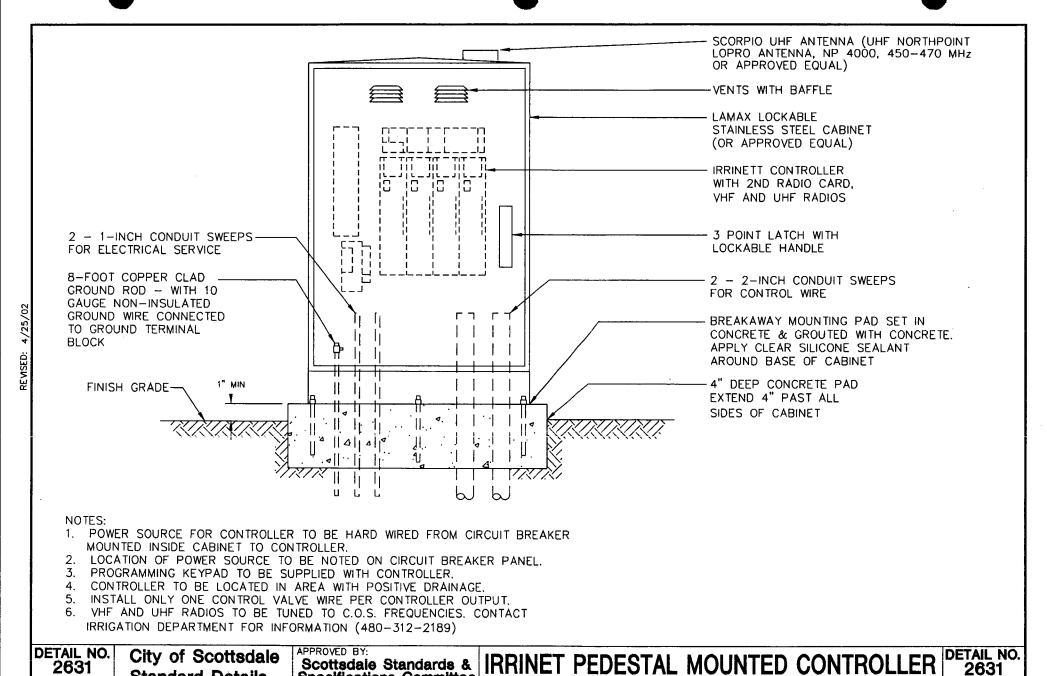
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	41	ht	æ	je			Ħ	£	ber			Ę	£	ğ	:		풀	£	oer				
Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper		1 1		
MODESTO ASH	15	8	2	1	RAYWOOD ASHI	15	8	4	1	SILK TREE MIMOSA (M)	15		3.5		SILK TREE MIMOSA	15	6	3	0.75			\dashv	H
(FRAXINUS V MODESTO)	24	10	4	1.5	CLARET ASH	24	10	3	1.5	(ALBIZIA JULIBRISSIA)	$\overline{}$	6.5			(ALBISIA JULIBRISSIN)	24	8	4	1.5	i	\vdash		 H
(170 000100 7 000 22010)	30	12	6	2	(FRAXINUS O RAYWOODII)	-	12	5	2	(IEBIES (BOEIB) (IOC) ()	30	+	6	+	(FILDIOF TO DEID TO DITY)	30	10	6	2				 ┢
	36	14	7	2.5	1		14	-8	2.5	†	36		8	+	1	36	12	8	3	·	\vdash	\neg	┢
	42	16	8	3	1	42	16	10	3	SILVER DOLLAR GUM	15		3	0.75	TEXAS EBONY (M)	15	4	2	0.5		1		 \vdash
	48	17	10	3.5		48	18	12	4	(EUCALYPTUS-	24	_	4	1.5	(PITHECELLUBIUM-	24	6	4	1				\vdash
NARROW LEAF GIMLET	15	6	2.5	0.75	RED CAP GUM	15	6.5	2.4	0.75	POLYANTHEMOS)		Г		1	FLEXICAULE)	30	7	6	1.5	·	\Box		
SWAMP MALLET	24	8	3	1	(EUCALYPTUS-	24	8	4	1.25	SISSOO	15	7	3	0.75		36	9	8	2	·			Г
(EUCALYPTUS -					ERYTHROCORYES)					(DALBERGIA SISSOO)	24	10	4	1.25	1	42	10	10	2.5	i			
SPATHULATA)					RED GUM	15	8	3	1]	30	12	7	2.5		48	11	11	3		\Box		
<u>OLEANDER</u>	15	7	2	0.75	(EUCALYPTUS-	24	10	4	1.75		36	15	10	3	WEEPING BOTTLE	15	8	2	0.75				
(NERIUM OLEANDER)	24	9	4	1.25	CAMALDULENSIS)					SOUTHERN LIVE OAK	15	6	2	0.75	BRUSH	24	10	3.5	1.5				
	30	10	5	2	RED IRON BARK	15	8	3	0.75	HERITAGE	24	9	4	1.25	(CALLISTEMON VIMINALIS)	30	12	5	2				
	36	12	6	2.5	(EUCALYPTUS -	24	10	4	1.5	(QUERCUS VIRGINIANA)	30	11	6.5	2		36	14	7	2.5				
OLIVE TREE	15	5	3	0.5	SIDEROXYLON)]	36	13	8	2.75	WEEPING WILLOW	15	8	2	1	i			
(OLEA EUROPAEA)		8	5.5	1.5	RIO GRANDE\ FAN	15	7	2	0.75]	42	15	10	3.5	(SALIX BABYLONICA)	24	10	4	1.5				 L
	30	11	9	2	TEXAS ASH	24	9	4	1.25		48	17	12	+	_	30	12	6	2.5	i			 L
	36	12		3	(FRAXINUS V FANTEX)		12	5	2	TEXAS EBONY	15		2	0.75		36	14	8	4	·			 _
	42		12			_	14	8	2.5	(PITHECELLOBIUM-	24	6	3		WHITE IRON BARK	15		_	0.75			_	╙
	48	16	14	4		ightarrow	15	9		FLEXICAULE)	30	-	4	2	(EUCALYPTUS -	24	8	3.5	1.25			_	 L
ORCHID TREE	15	8	2	0.75		-	16	10	4		36	9	6	2.5	LEUCOXYLON)								 _
(BAUHINIA)	24	9	4	i		15	8	2	1		42	-	6		YELLOW OLEANDER	15		_	0.5			_	 $ldsymbol{f\perp}$
	30	11	6	2	(FRAXINUS UHDEI)	24		4	1.5		48	11	7	3.5	(THEVETIA PERUVIANA)	24			1.25		\square		<u> </u>
	36	13	7	2.5			12	5	2.5			L		<u> </u>	YELLOW OLEANDER(M)	15	-		0.5	İ	Ш		 <u> </u>
ORNAMENTAL PEAR	15	7	2	1		\rightarrow	14	8	3		L		_	↓	(THEVETIA PERUVIANA)	24	6	5	0.75		\square	_	 <u> </u>
(PYRUS CALLERYANA)	24			1.5		-	15	9	3.5		L			<u> </u>	<u> </u>			L			Ш		 <u> </u>
	30	12	6	2.5			16	10	4						GENERAL NOTES:								
	36	14	8	3	SILK OAK	15	8	3	1														
	42	_	10	3.5	(GREVILLEA ROBUSTA)		10	4	2	4		-			r one year from the date			•					
	48	18	12	4	-		12	6	2.5	.					. A multitrunk tree is a tre								
					1	36	14	7	3	1					ve the ground for trees w			_			trees	ί,	
					-	$\vdash \vdash$	_		<u> </u>	4		•			hat 4", the caliper is mea					J			
]					ع 4. Size is listed ا	as th	e po	X S	ıze in	inches except for those	tree	s in	15 g	allon	containers.			

City of Scottsdale Standard Details

Scottsdale Standards & MINIMUM TREE SIZE REQUIREMENTS 2600-3



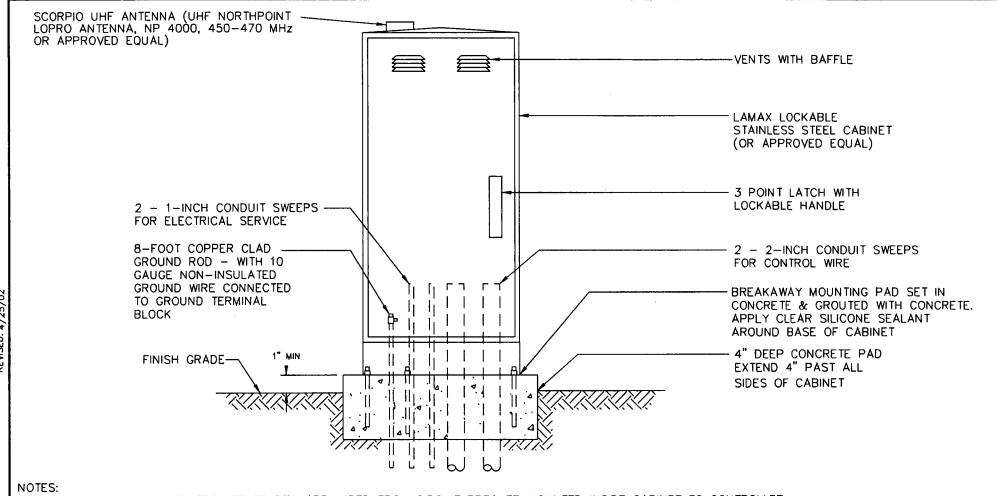




Standard Details

Specifications Committee

2631

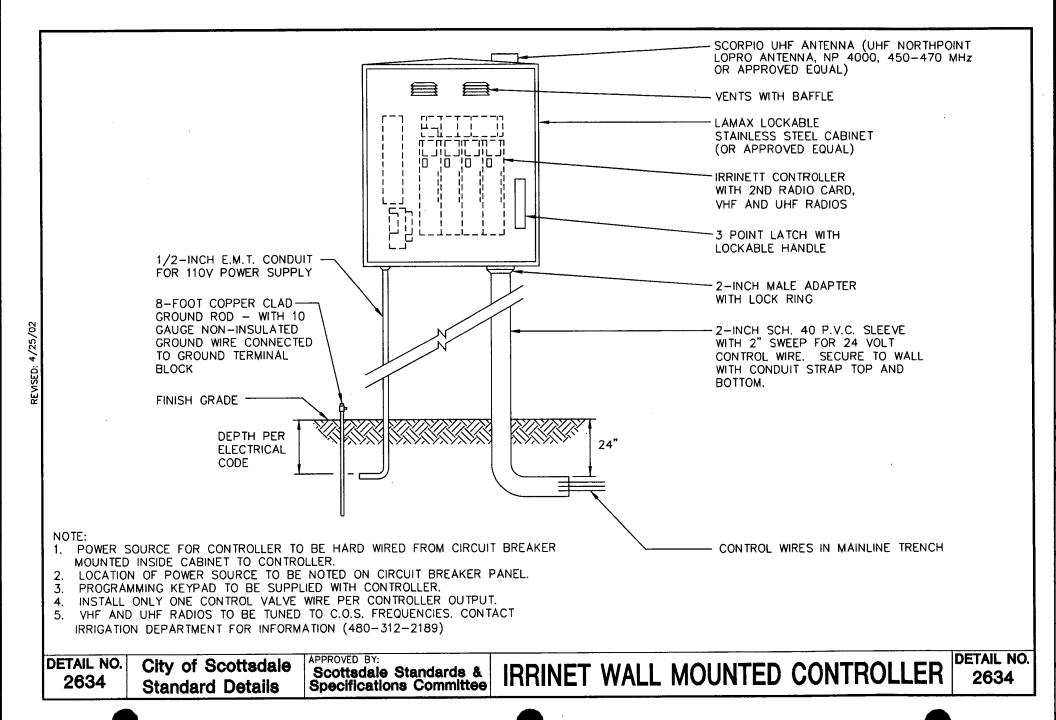


- POWER SOURCE FOR CONTROLLER TO BE HARD WIRED FROM CIRCUIT BREAKER MOUNTED INSIDE CABINET TO CONTROLLER.
- 2. LOCATION OF POWER SOURCE TO BE NOTED ON CIRCUIT BREAKER PANEL.
- 3. REMOTE CONTROL VALVES FOR D.C. SCORPIO APPLICATIONS MUST HAVE D.C. LATCHING SOLENOIDS AND APPROVED SOLAR PANEL FOR POWER SOURCE.
- 4. JSLM NARROW BAND RADIO # 2845 G TO BE INSTALLED WITH SCORPIO CONTROLLER.
- 5. PROGRAMMING KEYPAD TO BE SUPPLIED WITH CONTROLLER.
- 6. CONTROLLER TO BE LOCATED IN AREA WITH POSITIVE DRAINAGE.
- INSTALL ONLY ONE CONTROL VALVE WIRE PER CONTROLLER OUTPUT.
- 8. UHF RADIO TO BE TUNED TO C.O.S. FREQUENCIES. CONTACT IRRIGATION DEPARTMENT FOR INFORMATION (480-312-2189)

DETAIL NO. 2632 City of Scottsdale Standard Details APPROVED BY:

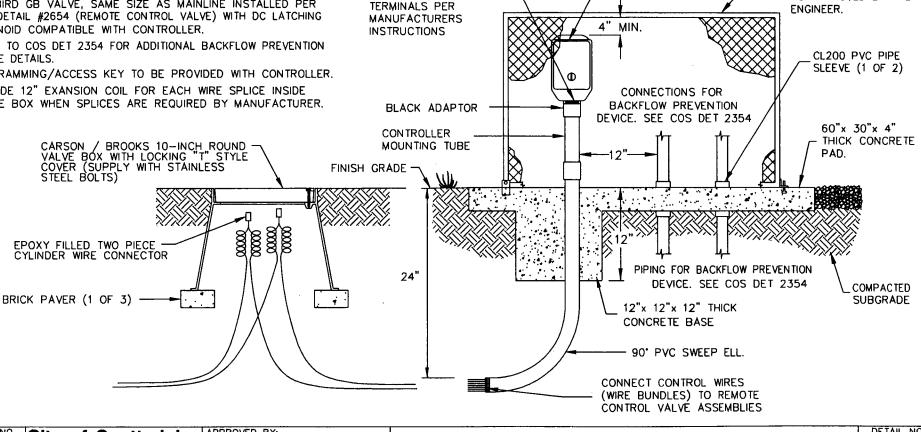
Scottsdale Standards & Specifications Committee

SCORPIO PEDESTAL MOUNTED CONTROLLER



NOTES:

- 1. INSTALL WIRING OF APPROPRIATE GAUGE, CONNECTORS, SEALANT, AND ADAPTORS PER MANUFACTURERS INSTRUCTIONS.
- 2. INSTALL CONTROL WIRES, SPLICES, AND MOUNTING COLUMN AS FURNISHED/SPECIFIED BY THE CONTROLLER MANUFACTURER.
- 3. LABEL ALL WIRES IN CONTROLLER.
- 4. D.C. LATCHING SOLENOIDS ON REMOTE CONTROL VALVES TO BE COMPATIBLE WITH CONTROLLER.
- 5. MASTER VALVE TO BE INSTALLED AND WIRED TO CONTROLLER. RAINBIRD GB VALVE. SAME SIZE AS MAINLINE INSTALLED PER COS DETAIL #2654 (REMOTE CONTROL VALVE) WITH DC LATCHING SOLENOID COMPATIBLE WITH CONTROLLER.
- 6. REFER TO COS DET 2354 FOR ADDITIONAL BACKFLOW PREVENTION DEVICE DETAILS.
- 7. PROGRAMMING/ACCESS KEY TO BE PROVIDED WITH CONTROLLER.
- 8. PROVIDE 12" EXANSION COIL FOR EACH WIRE SPLICE INSIDE SPLICE BOX WHEN SPLICES ARE REQUIRED BY MANUFACTURER.



CONNECT CONTROL

FROM EACH VALVE

WIRES (WIRE BUNDLES)

ASSEMBLY TO CONTROLLER

City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & **Specifications Committee** SOLAR CONTROLLER AND BACKFLOW PREVENTER ENCLOSURE

DIG "LEIT 4000"

CONTROLLER

DETAIL NO.

BACKFLOW PREVENTER

(48"L X 18"W X 30"H)

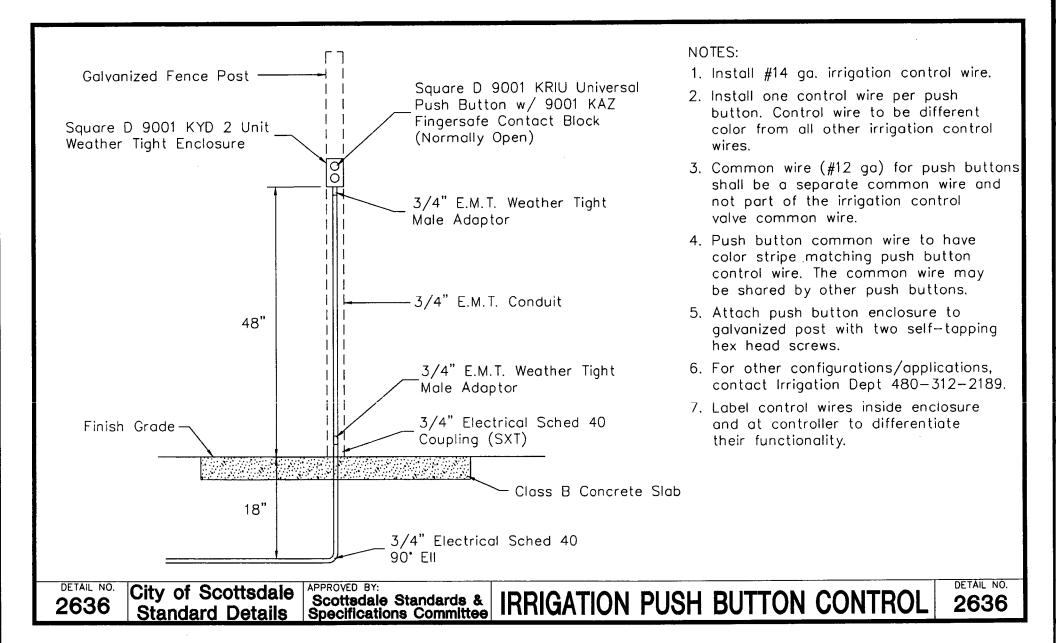
ADJACENT STRUCTURES

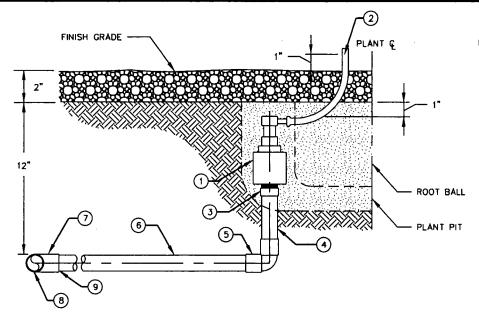
AS APPROVED BY THE

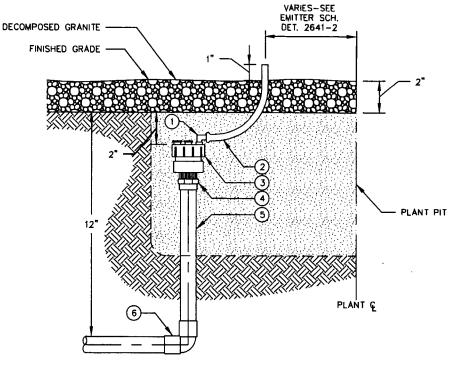
SINGLE SWING HINGE

PAINT TO MATCH

ENCLOSURE:







SINGLE OUTLET EMITTER **ALL SHRUBS & GROUND COVER**

SCALE:

LIST OF MATERIALS

- BOWSMITH SL SERIES SINGLE PORT EMITTER OR APPROVED EQUAL. LOCATE ON UPHILL SIDE OF PLANT CENTERLINE
- 1/4" POLY FLEX HOSE EMITTER TUBING
- 1/2" PVC SCH 40 MALE ADAPTOR
- AG. PRODUCTS 1/2" I.P.S. FLEXIBLE VINYL PVC PIPE OR APPROVED EQUAL
- 1/2" PVC SCH 40 90" ELBOW
- (6) 1/2" PVC CL 315 PIPE
- (7) 1/2" PVC SCH 40 FITTING
- PVC CL 315 FOR 1/2" LATERALS, PVC CL 200 FOR LATERALS GREATER THAN 1/2"
- (9) INSTALL BUSHING AS REQUIRED.

NOTES

- 1, PIPE CEMENT & PRIMER SHALL BE AS SPECIFIED BY MANUFACTURER FOR FLEXIBLE AND RIGID PIPE CONNECTIONS.
- 2. EMITTER TUBING EMISSION POINTS SHALL BE EQUALLY SPACED AND LOCATED TO DIRECT WATER FLOW TO THE PERIMETER OF THE DRIP LINE.
- 3. NUMBER OF OPENINGS AND EMITTER TUBES REQUIRED IS BASED ON PLANT SIZE. (SEE COS STD. DET. 2641-2)
- 4. MAXIMUM EMITTER TUBING LENGTH = 36".

MULTI-OUTLET EMITTER TREES ONLY

SCALE: NTS

LIST OF MATERIALS

- (1) SMIVEL OUTLET 90. ELBOM
- (2) 1/4" POLY FLEX HOSE EMITTER TUBING
- BOWSMITH ML 200 SERIES MULTI-PORT EMITTER OR APPROVED EQUAL. LOCATE ON UPHILL SIDE OF PLANT Q
- 1/2" PVC SCH 40 MALE ADAPTER
- AG. PRODUCTS 1/2" I.P.S. FLEXIBLE VINYL PVC PIPE OR APPROVED EQUAL
- (6) 1/2" PVC SCH 40 FITTING

DETAIL NO. 2641-1

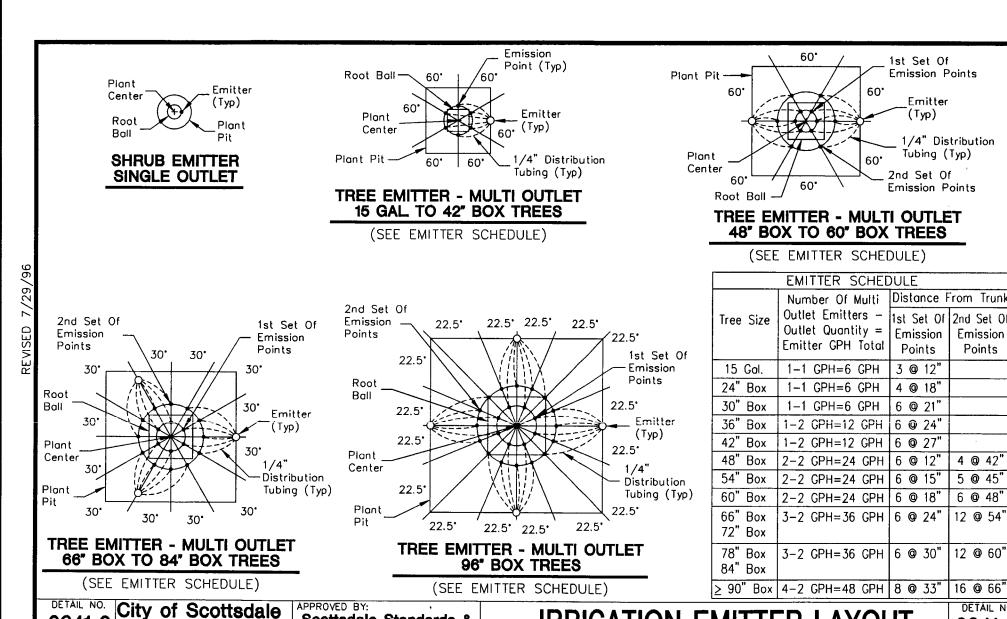
City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

SINGLE & MULTI-OUTLET EMITTERS





Scottsdale Standards &

Specifications Committee

Standard Details

DETAIL NO. 2641-2

2nd Set OI

Emission

Points

4 @ 42"

5 @ 45

6 @ 48"

12 @ 54'

12 @ 60°

16 @ 66'

IRRIGATION EMITTER LAYOUT

Emitter

(Typ)

DETAIL NO.

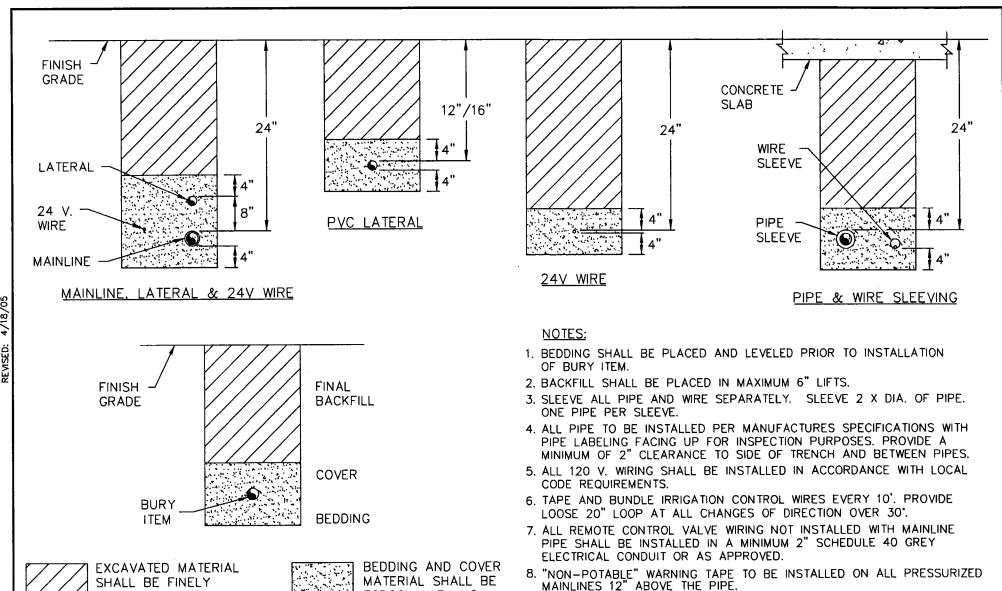
2642

SCREENED WITH NO

ROCKS LARGER THAN 1".

City of Scottsdale

Standard Details



9. INSTALL ONE ADDITIONAL SLEEVE SIZED TO MATCH THE LARGEST

DETAIL NO.

2642

REQUIRED SLEEVE WITH ENDS TAPED FOR FUTURE USE.

IRRIGATION TRENCHING

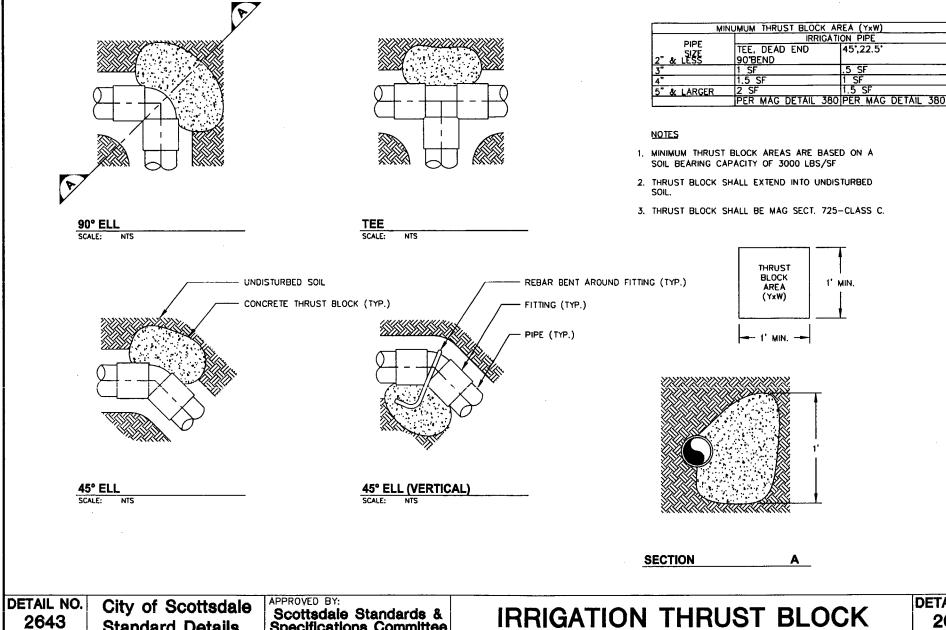
TOPSOIL WITH NO

ROCKS.

Scottsdale Standards &

Specifications Committee

APPROVED BY:



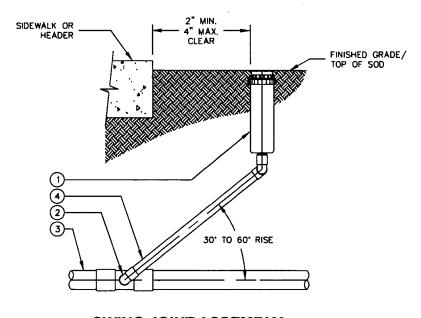
Scottsdale Standards & Specifications Committee

DETAIL NO.

2643

2643

Standard Details

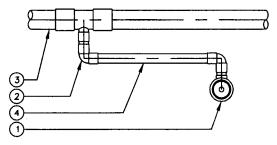


SWING JOINT ASSEMBLY ELEVATION

SCALE:

LIST OF MATERIALS

- ROTOR SPRINKLER HEAD
- STREET ELL (1 OF 3) SCH 40 PVC
- PVC LATERAL PIPE
- SCH 80 NIPPLE TBE



SWING JOINT ASSEMBLY PLAN

NTS

NOTES

- 1. SWING JOINT TO BE THE SAME SIZE AS SPRINKLER HEAD INLET.
- 2. NO PRE-FAB SWING JOINTS
- 3. NO MARLEX FITTINGS

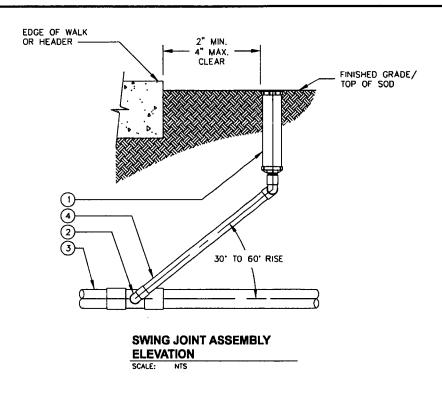
DETAIL NO. 2644

City of Scottsdale Standard Details

APPROVED BY:

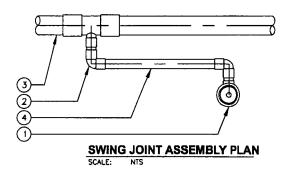
Scottsdale Standards & Specifications Committee

ROTOR SPRINKLER ASSEMBLY



LIST OF MATERIALS

- 1) 4" POP~UP SPRAY SPRINKLER HEAD
- (2) STREET ELL (1 OF 3) SCH 40 PVC
- 3) PVC LATERAL PIPE
- (4) SCH 80 NIPPLE TBE



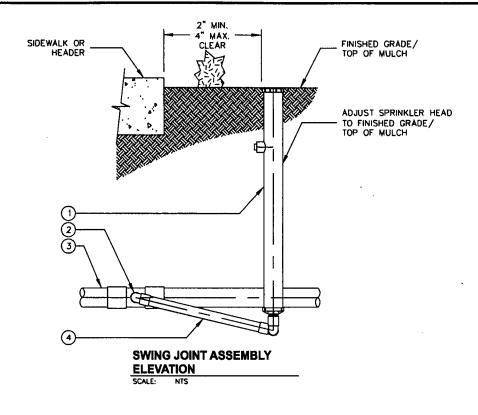
NOTES

- SWING JOINT TO BE THE SAME SIZE AS SPRINKLER HEAD INLET.
- 2. NO PRE-FAB SWING JOINTS
- 3. NO MARLEX FITTINGS

DETAIL NO. 2645 City of Scottsdale Standard Details APPROVED BY:

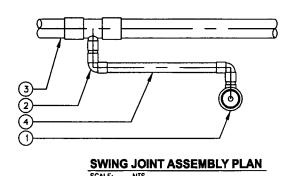
Scottsdale Standards & Specifications Committee

POP-UP SPRINKLER ASSEMBLY



LIST OF MATERIALS

- 1) 12" POP-UP SPRAY SPRINKLER HEAD
- (2) STREET ELL (1 OF 3) SCH 40 PVC
- (3) PVC LATERAL PIPE
- (4) SCH 80 NIPPLE TBE



NOTES

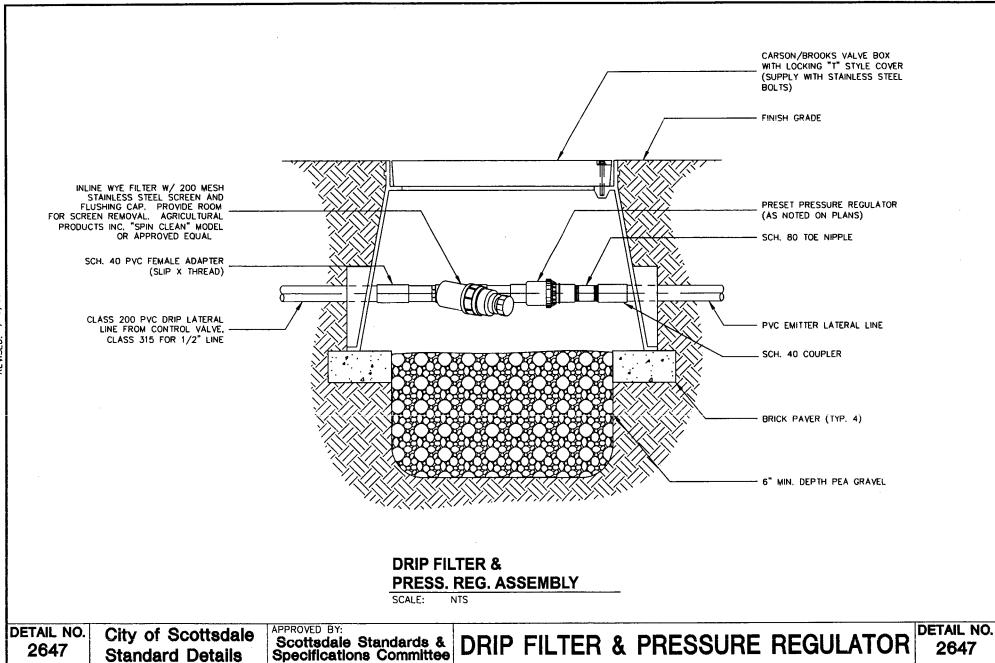
- 1. SWING JOINT TO BE THE SAME SIZE AS SPRINKLER HEAD INLET.
- 2. SWING JOINT SHALL BE CONNECTED TO BOTTOM OUTLET.
- 3. NO PRE-FAB SWING JOINTS
- 4. NO MARLEX FITTINGS

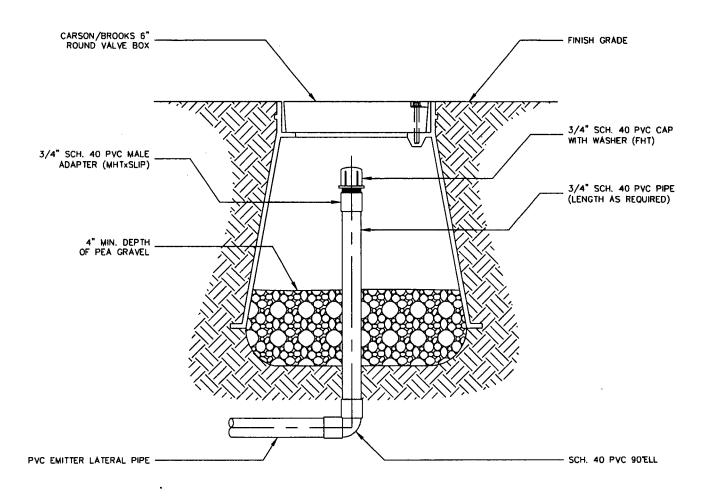
DETAIL NO. 2646

City of Scottsdale Standard Details APPROVED BY:

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SHRUB POP-UP SPRINKLER ASSEMBLY





EMITTER FLUSH CAP ASSEMBLY SCALE: NTS

DETAIL NO. 2648

City of Scottsdale Standard Details

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Scottsdale Standards &
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EMITTER FLUSH CAP ASSEMBLY

DETAIL NO. City of Scottsdale 2650 Standard Details

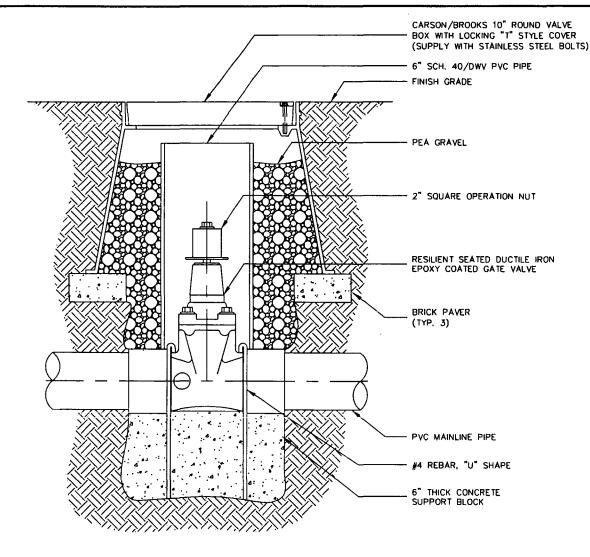
APPROVED BY:

Scottsdale Standards & Specifications Committee

1-1/2" & SMALLER MAINLINE BALL VALVE

NOTE:

- 1. GATE VALVE SHALL MATCH NOMINAL SIZE OF MAINLINE PIPE.
- PROTECT VALVE BODY WITH 10MIL PLASTIC PRIOR TO INSTALLATION OF REBAR & SUPPORT BLOCK.

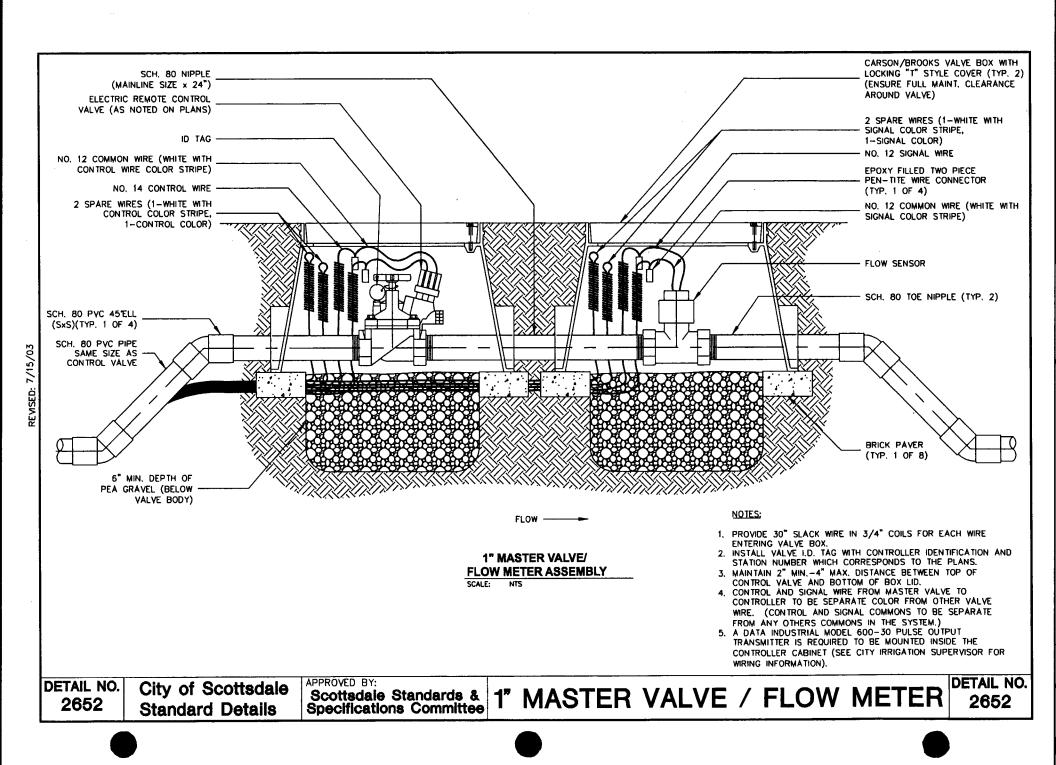


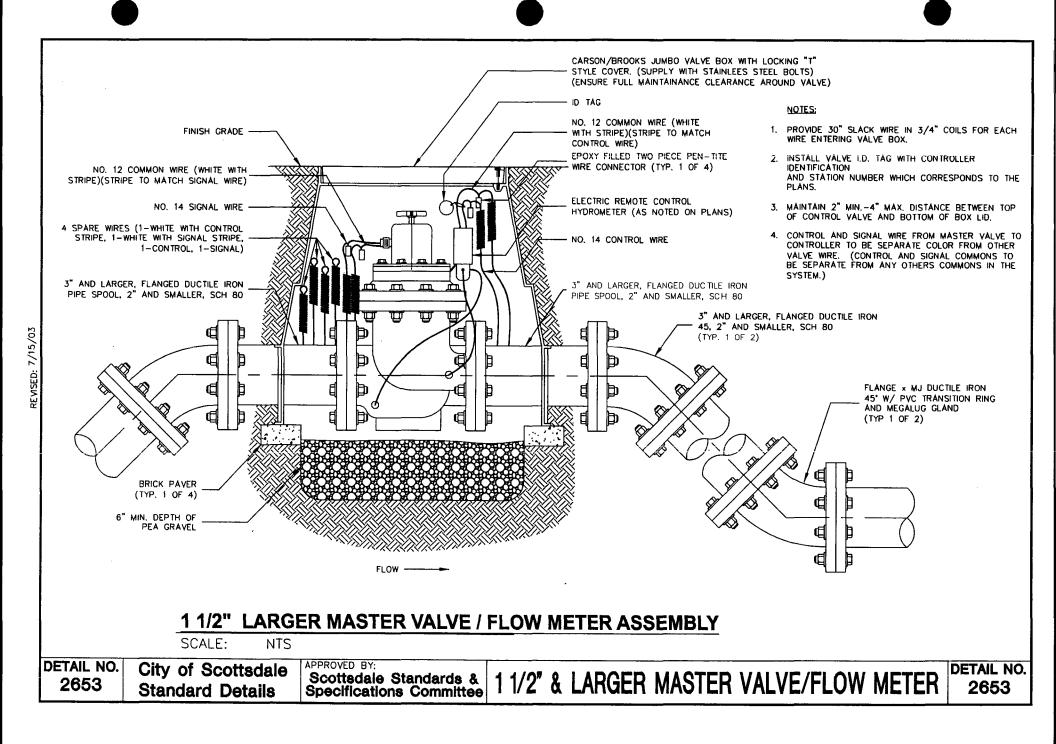
2" & LARGER MAINLINE ISOLATION GATE VALVE ASSEMBLY SCALE: NTS

DETAIL NO. 2651 City of Scottsdale Standard Details APPROVED BY:

Scottsdale Standards & Specifications Committee

2" & LARGER MAINLINE ISOLATION GATE VALVE





STEP 2

SLIP BASE SOCKET OVER END OF WIRES

STRIP WIRES APPROX. 5/8" FROM ENDS - TWIST ENDS TOGETHER

APPLY SEALER TO OUTSIDE OF SEALING PLUG - FILL CAVITY WITH SEALER

PUT CRIMP SLEEVE OVER WIRE ENDS - CRIMP SLEEVE AND CUT OFF EXCESS WIRE

PULL BASE SOCKET OVER WIRE END AS FAR AS POSSIBLE

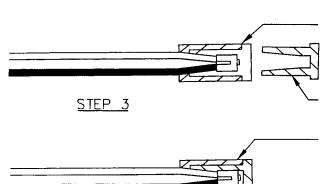
PUSH SEALING PLUG INTO BASE SOCKET

PUSH WIRES TO END OF BASE SOCKET TO ASSURE COMPLETE SEALING OF CONNECTION

DRI-SPLICE TYPE WIRE CONNECTOR

NOTES:

- 1. FOR WIRE SIZES NO. 14, 12 AND 10, ALL CONNECTIONS IN VALVE BOXES ONLY.
- 2. INSTALL SPEARS DS-100 DRI-SPLICE CONNECTORS WITH DS-300 SEALANT.



REVISED: 3/9/05

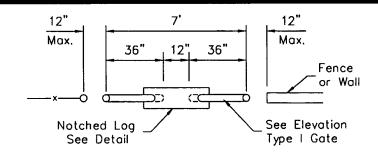
City of Scottsdale Standard Details

STEP 4

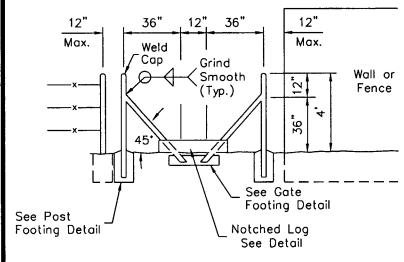
APPROVED BY:

Scottsdale Standards & Specifications Committee

TYPICAL IRRIGATION WIRE CONNECTION



TYPE I GATE w/ NOTCHED LOG

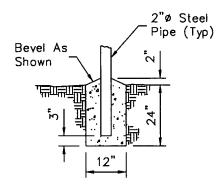


ELEVATION TYPE I GATE

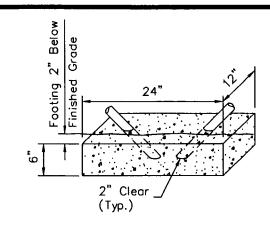
City of Scottsdale Standard Details

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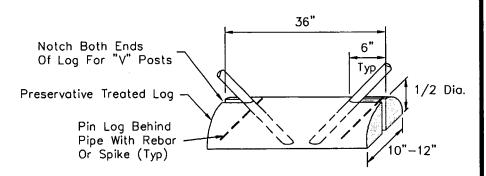
POST FOOTING DETAIL



GATE FOOTING DETAIL

NOTES:

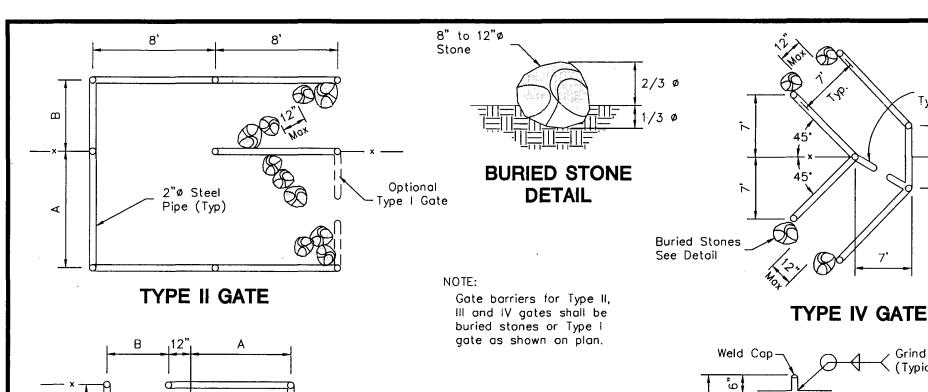
- 1. All Concrete Shall Be Class "B".
- 2. Paint Rails Per ADOT Specifications. Color Per Plans.
- 3. Treated Wood Per MAG Section 779.



NOTCHED LOG DETAIL

TRAIL ACCESS GATES

DETAIL NO. 2680-



TYPE II and III GATE DIMENSIONS		
GATE BARRIER	Α	В
Type I	7'	4'
Buried Rocks	4'	4'

Weld Cap Grind Smooth (Typical) Cope Ends Of Pipe Prior To Welding Post & Rails 2"ø Steel Pipe (Typ.)

TYPICAL RAIL ELEVATION
TYPE II, III & IV GATE

DETAIL NO.

o,

City of Scottsdale Standard Details

TYPE III GATE

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Scottsdale Standards & Specifications Committee

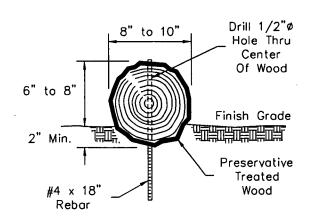
Optional Type I Gate

w/o Curb

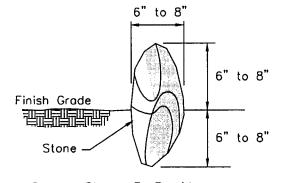
TRAIL ACCESS GATES

2680-2

Optional Type | Gate



REBAR SECURED WOOD BARS



Stagger Stones To Provide A Continuous Water Bar

STONE BARS

2681 City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

Double Wrap Wood With 9 Gauge Wire And Secure To Stake

3" to 4"

Finish Grade

2" Min.

Preservative
Treated
Wood

Double Wrap Wood With 9 Gauge Wire And Secure To Stake

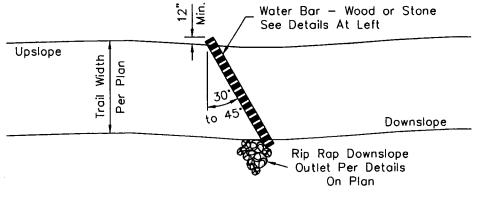
2"x 2"x 18"

Redwood
Stake

WIRE SECURED WOOD BARS

NOTES:

- Provide water bars at a maximum 100' interval where trail grade is equal to or greater than 6% and at all locations as shown on plans.
- 2. Treated wood per MAG Section 779.



WATER BARS

TRAIL WATER BARS

