City of Scottsdale



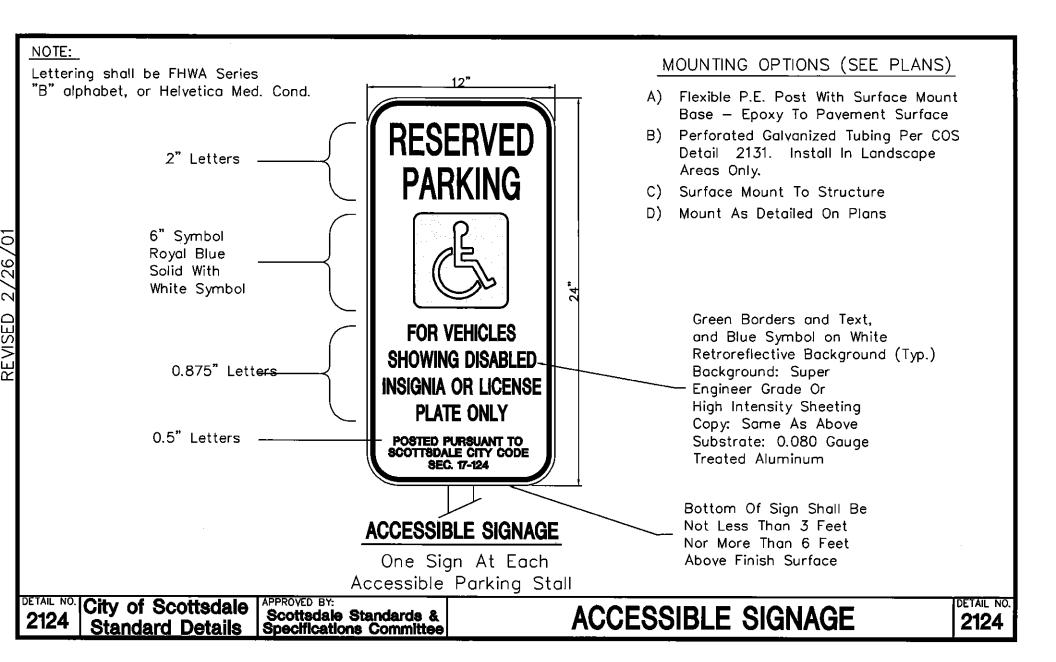
2006

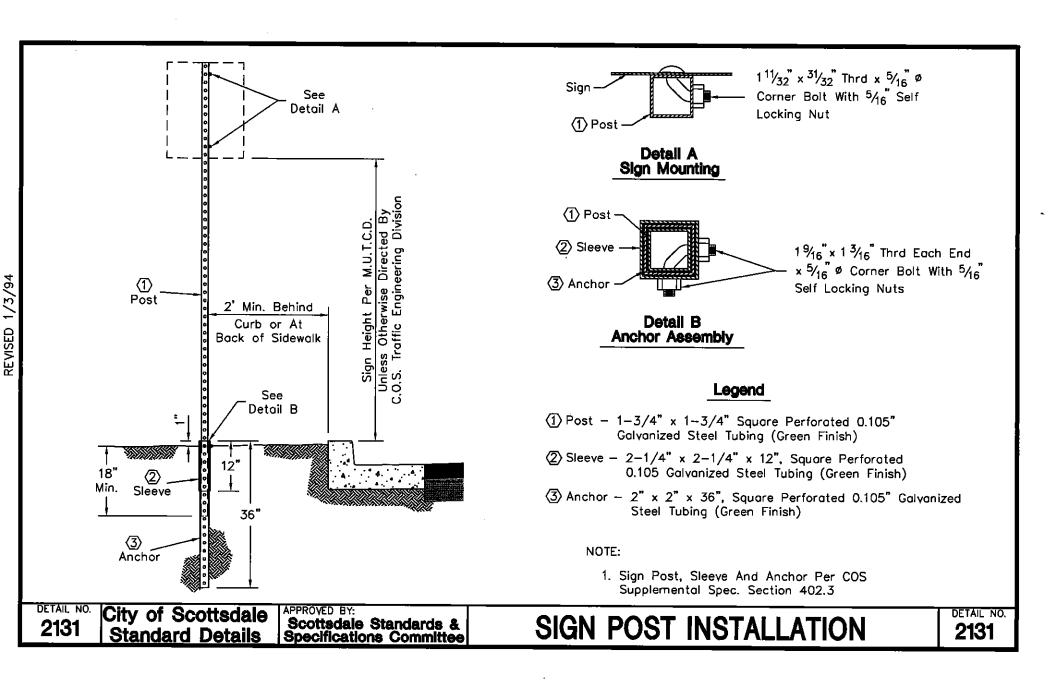
SUPPLEMENTAL
STANDARD DETAILS
FOR
PUBLIC WORKS
CONSTRUCTION

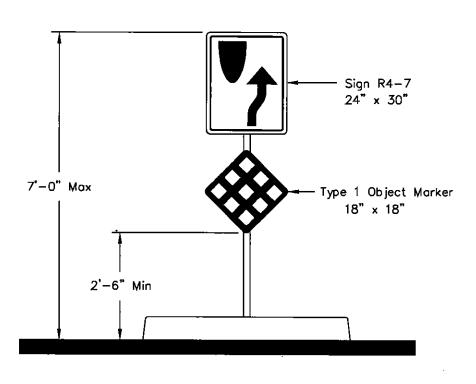
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		· .		

	2.	300 Series	2.7	000 Series	-	
		ater Information Cont'd		iter Information Cont'd		00 Series
1	2351	Double Check Valve Backflow Prevention	1 2380			ndscape Information
		Assembly For Assemblies 3" Thru 10"	2360	Temporary Water Supply Hydrant Meter Assembly	2600-1 2600-2	Minimum Tree Size Requirements
1	2352	Double Check Valve Backflow Prevention	2381	Temporary Blow-Off For Water Supply	2600-2 2600-3	Minimum Tree Size Requirements Minimum Tree Size Requirements
1		Assembly For Assemblies 3/4" Thru	2382	Temporary Water Service	2620-1	Landscape Details
ı	2353	2 1/2" Reduced Pressure Principle Backflow	2383*	Water Line Flushing Assembly	2620-2	Landscape Details
ı	2000	Prevention Assembly For Assemblies	2397	Electronic Ballmarker Placement	2620-3	Landscape Details
1		3" Thru 10"	2398	Antenna Mast Detail	2631 *	Irrinet Pedestal Mounted Controller
1	2354	Reduced Pressure Principle Backflow		100 Series	2632 *	Scorpio Pedestal Mounted Controller
		Prevention Assembly For Assemblies		unitary Sewer Information	2633 * 2634 *	Scorpio Wall Mounted Controller Irrinet Wall Mounted Controller
	2355	3/4" Thru 2 1/2"	2401 *	Water & Sanitary Sewer Seperation/ Protection	2635-1	Solar Controller
	2333	Pressure Vacuum Breaker Assembly For Assemblies 1/2" Thru 2"	2402	Force Main Discharge Manhole	2635-2	Solar Controller & Backflow Enclosure
	2356	Guard Posts For Backflow Prevention	2403	2-Way F.M. Cleanout, 3" & Above	2636	Irrigation Push Button Control
ſ		Assemblies	2404	F.M. Cleanout W/ Sewer Release A.V.	2641-1 *	Single & Multi-Outlet Emitters
	2357	Fill Pipe Details For Portable Tanks w/	2405	Sewer Air Release Valve	2641-2	Irrigation Emitter Layout
		Air Gap Separation	2420	Water Tight Concrete Sewer Manhole	2642 *	Irrigation Trenching
	2358	Backflow Prevention For Portable Tanks	2421	Sanitary Sewer Manhole Cover	2643 *	Irrigation Thrust Block
`		With No Air Gap Separation	2440 *	Type II Sewer Building Connection	2644 2645	Rotor Sprinkler Assembly Pop-Up Sprinkler Assembly
	2359	"N" Shaped Double Check Valve	2460	Monitoring/Sampling Vault	2646	Shrub Pop-Up Sprinkler Assembly
		Backflow Prevention Assembly For Assemblies 3" Thru 10"	25	000 Series	2647 *	Drip Filter & Pressure Regulator
) 	2360	"N" Shaped Reduced Pressure Principle		igation & Storm Drain Information	2648	Emitter Flush Cap Assembly
	2000	Backflow Prevention Assembly For	2508	Handrail Detail	2649 2650 *	Quick Coupler Assembly 1-1/2"& Smaller Mainline Ball Valve
		Assemblies 3" Thru 10"	2515-1 *	Wall Opening & Erosion Protection -	2651	2" & Larger Mainline Isolation Valve
`	2361 *	Fire Hydrant bypass Assembly	2010 1	Type 1	2652 *	Deleted
1		1-1/2" - 2" Fire Line Connection	2515-2*	Drainage Grate At Block Wall	2653 *	1-1/2" & Larger Master Valve/Flow Meter
		3" And Larger Fire Line Connection	2515-3*	Erosion Protection - Type 2	2654 * 2655	Remote Control Valve Assembly Typical Irrigation Wire Connection
	2363	Pavement Markers For Fire Hydrants		1,50 2	2680-1	Trail Access Gates
	2364	Fire And Emergency Access And	2520	Storm Drain Manhole Cover	2680-2	Trail Access Gates
	2365	Delineation	2535	Catch Basin Grates	2681	Trail Water Bars
•	2366	Fire Lane Sign Concrete Collar For Fire Hydrants	2554	Concrete Invert Paving For Corrugated	2682	Trail Safety Barriers
	2367 *	Fire Department Remote Siamese		Metal Pipe And Pipe Arch	2683	Trail Signs
		Connection	2560-1	Storm Drain Inlet Marker		
	2368	Fire Sprinkler Riser Detail — Vertical	2560-2	Storm Drain Inlet Marker On Headwall		
	2760	Installation #1	2560-3	Storm Drain Inlet Marker On Catch		
	2369	Fire Sprinkler Riser Detail — Vertical Installation #2		Basin/Scupper		
1	2370	Vertical Realignment Of Water Mains	2562-1	Storm Sewer Outfall Access Barrier	NOT	E: *-Indicates New Or Revised
L,	2372 DETAIL NO.	Minimum Utility Separation Requirements	2562-2	Barrier Specifications Schedule		Details For 2006 Supplement.
	2100-2	City of Scottsdale		INDEX		DETAIL NO.
Ľ	- 100-2	Stándard Details				2100-2

F	-1					
ı	-	Series		Series	220	00 Series
1		ral Information		t Information Cont'd		eet Information Cont'd
ı	2124	Accessible Signage	2228	Cut-Off Wall	2270	Frame & Cover Grade Adjustment
1	2131	Sign Post Installation	2230	Sidewalk Cut-Off For Utility Poles	2281	Multi-Use Path Crossing Sign
1	2132	Raised Pavement Marker Layout	2231	Detectable Warning Surface	2282	Multi-Use Path Striping And Signing
ı	2133	Median Nose Signing — Type A & B	2232	Directional Sidewalk Ramps	2283	Multi-Use Path Details
1	2134-1*	Street Name Signs — Type A	2233-1	Directional Sidewalk Ramps	2284	Multi-Use Path Wet Crossing Sign
ı	2134-2*	Street Name Signs — Type B	<u> </u>	Retrofit - Type A	2285	Double Bicycle Rack
ı	2134-3*	Street Name Signs — 18" And 24" Metro	2233-2	Directional Sidewalk Ramps	2290	Median Island Details
ı	2135	Street Name Sign Installation	0074	Retrofit - Type B	2292-1	Speed Table Details
ı	2136 *	Advance Street Name Signs	2234	Shared Curb Sidewalk Ramp	2292-2 2293	Speed Table Details Mid-Block Pedestrian Table
ı	2137	Loop Detectors	2235-1	Mid-Block Sidewalk Ramp - Type A	2293 2294	Intersection Pedestrian Table
1	2138	Signal Pole Drilling Detail	2235-2	Mid-Block Sidewalk Ramp - Type B		
1	2139	Traffic Signal Controller Cabinet Extender	2237	Sidewalk Pavers(Non-Traffic Bearing)	2295	Pedestrian Refuge
- 1	2140	Model 330 Input Rack Wiring Instructions	2238 *	Deleted	230	00 Series
8	2141	Tape Color Codes for Traffic Signal Wiring	2239	Median Concrete Pavers		ter Information
`	2146-1	Refuse Enclosure	2240	6' Valley Gutter & Apron	2305-1	Butterfly Valve Operator Manhole
5	2146-2	Refuse Enclosure With Grease	2250	Driveway Entrances	2305-2	Butterfly Valve Operator Manhole
E		Containment Area	2255	Residential Driveways	2315	Nonpotable Water Valve Box & Cover
VI NED	2147-1	Double Refuse Enclosure	2256 *	Commercial/Industrial Driveways—Type CL	2320 *	Deleted
בֿ	2147-2	Double Refuse Enclosure With Grease	2257 *	Commercial/Industrial Driveways—Type CH	2321 *	Deleted
۲	0465 4	Containment Area	2258 *	Commercial/Industrial Driveways—Type Cl	2330 *	Water Service Line Connection
ı	2165-1	16'Sliding Gate & Hinged Door	2265-1	Bus Shelter — Foundation Plan	2332	Chlorine Injection Tap
ı	2165-2	16' Sliding Gate	2265-2	Bus Shelter — Framing Plan	2333	Tap For Future Chlorine Injection
ı	220	00 Series	2265-3*	Bus Shelter - Sections	2342-1	Pressure Reducing Valve
1	Str	eet Information	2265-4	Bus Shelter - Details	2342-2	Pressure Reducing Valve
ı	2200	Pavement Replacement	2265-5	Bus Shelter - Details	2345-1	3", 4", 6" Water Meter
ı	2201 *	Trench Bedding & Backfill	2265-6	Bus Shelter - Notes	2345-2	3", 4", 6" Water Meter
	2202	Trench Plating	2265-7	Bus Shelter — Abbreviations	2345-2 2346	Temporary Construction Meter
	2207	Residential Unpayed Road	2266-1 *	Closed End Bus Bay — Type "A"	2348	Air / Vacuum Release Valve
	2210	Grading Behind The Curb	2266-2*	Closed End Bus Bay — Type "B"	2349	Water Quality Sampling Station
Į	2220	Curb And Gutter — Types "A" & "B"	2267 *	For Side Bus Boy	2373	Hatel Quality Jainpling Station
	2221	Curb And Gutter — Types "M" & "W"	2268	Base Slab And Foundations For Bus		
	2225 *	Median Nose & Reverse Curve Details		Stop Bench And Receptacles	NO	OTE: *-Indicates New Or Revised
	2226	16' Median Nose Details	2269 *	Deleted	, , ,	Details For 2006 Supplement.
	DETAIL NO.			INDEX		DETAIL NO.
- 1	2100-1	Stándard Details				2100-1







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.

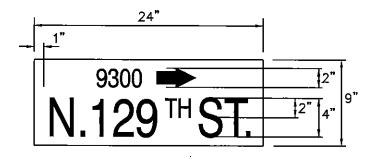
TYPE "A"

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

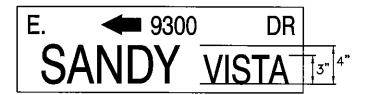
2133 City of Scottsdale Scottsdale Standard Details

APPROVED BY:
Scottsdale Standards & Specifications Committee

MEDIAN NOSE SIGNING-TYPE A&B







TYPE A SIGNS

ASTM Type IV
Green/White (2 Sides)

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

9"x 36", 9"x 42"

Blank Type: .091 extruded aluminum

Sign imaging: must meet FHA standards. Must be acrylic based electronic cuticle file (1170 series or equivalent) or silk screen ink approved for graffiti resistant.

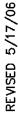
Intended Usage: Type "A" Street Name Signs shall be used in residential areas where Residential Streets interesect with Local Collector Streets. See the COS General Plan for Street Designations.

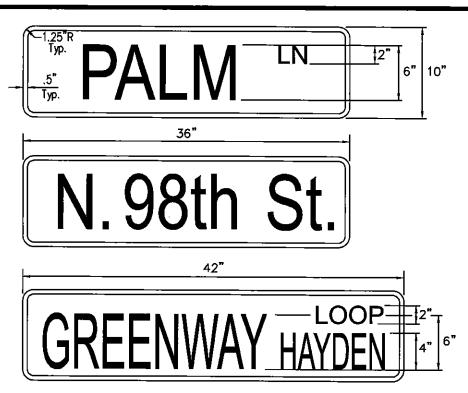
DETAIL NO. 2134-1

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

STREET NAME SIGNS - TYPE A

DETAIL NO. 2134-1





TYPE B SIGNS

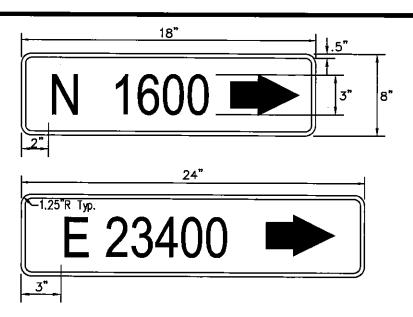
ASTM Type IV Reflective Sheeting

Green/White (2 Sides)

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

Blank Type: .125 treated aluminum

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



TYPE B BLOCK NUMBERS

ASTM Type IV Reflective Sheeting

Green/White (1 Side)

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

Blank Type: .125 treated aluminum

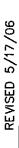
Type "B" Block Numbers to be mounted with Type "B" Street Name Signs.

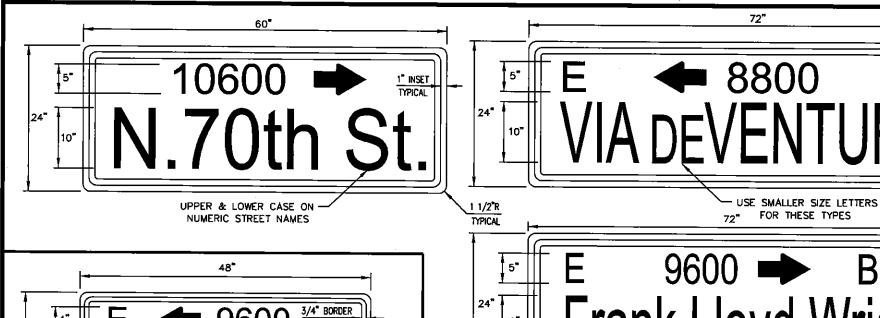
Sign imaging: must meet FHA standards. Must be acrylic based electronic cuticle file (1170 series or equivalent) or silk screen ink approved for graffiti resistant.

City of Scottsdale Scottsdale Standards & Specifications Committee

STREET NAME SIGNS - TYPE B

DETAIL NO. 2134-





18" METRO SIGNS

Proposed ASTM Type XI Reflective Sheeting (1 Side)

Typestyle = Highway Gothic, Modify C or D

Blank Sizes: 18"x 48", 18"x 60", 18" x 72"

Blank Type: .80 Treated Aluminum

Intended Usage: 18" Metro Street Name Signs shall be used on minor roads with a speed limit of 35MPH or lower. See the COS General Plan for Street Designations.

24" METRO SIGNS

UPPER AND LOWER CASE LETTERS

FOR STREET NAMES THAT WOULD EXCEED MAXIMUM LENGTH SIGN BLANK USE 9"

Proposed ASTM Type XI Reflective Sheeting (1 Side)

Typestyle = Highway Gothic, Modify C or D

Blank Sizes: 24"x 60", 24"x 72", 24" x 84"

Blank Type: .125 Treated Aluminum

Intended Usage: 24" Metro Street Name Signs shall be used on major roads with a speed limit of 35MPH or higher. See the COS General Plan for Street Designations. Sign imaging: must meet FHA standards. Must be acrylic based electronic cuticle file (1170 series or equivalent) or silk screen ink approved for graffiti resistant.

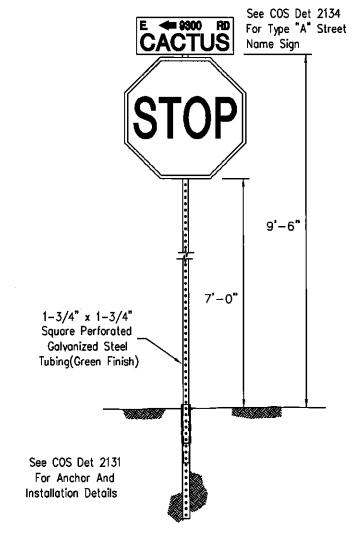
City of Scottsdale Scottsdale Standards & Specifications Committee

1 1/2 R

STREET NAME SIGNS - 18" AND 24" METRO

DETAIL NO.

1° BORDER



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.

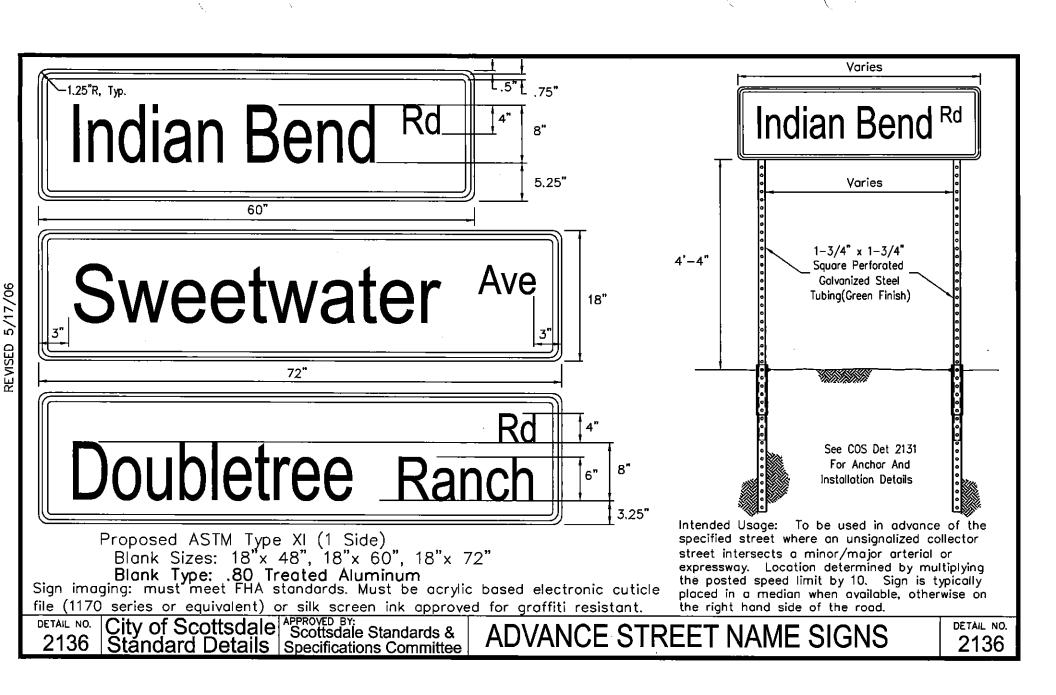
2135

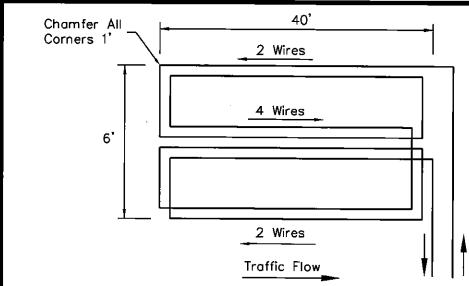
City of Scottsdale Standard Details

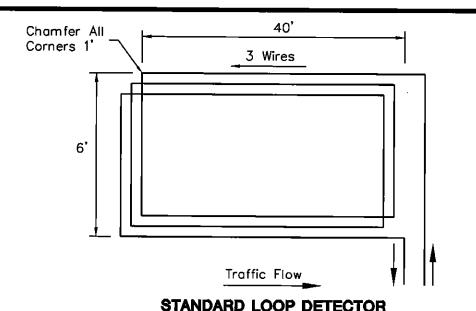
APPROVED BY:

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 payement, "payers". 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).
- 9. 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 payement lift (if part of a paving project).
- 11. Loops shall be inspected and tested prior to acceptance by the City.

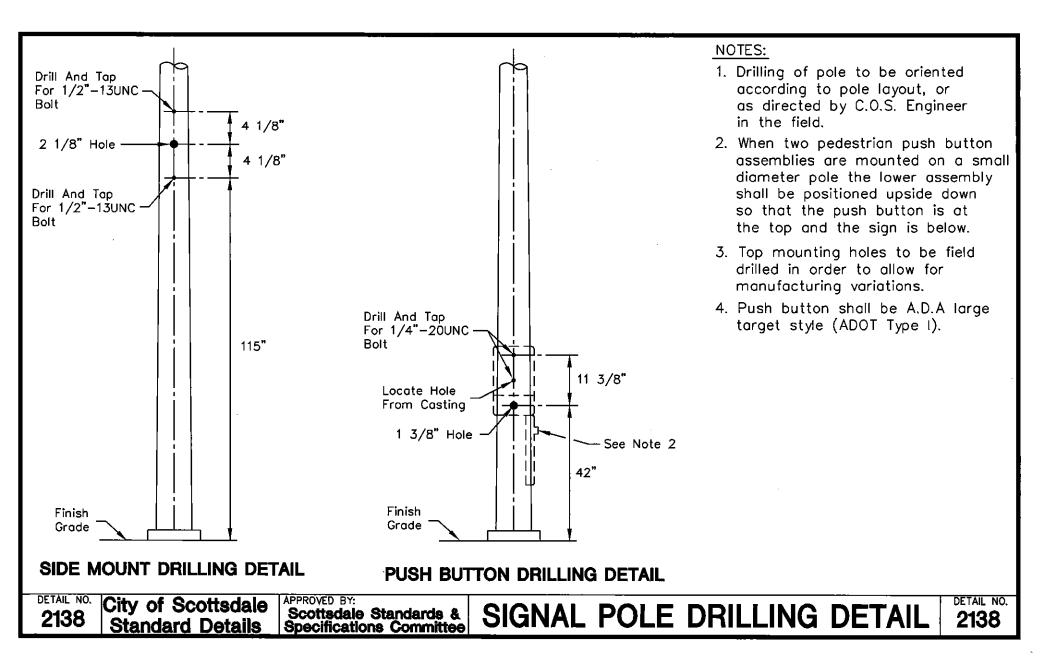
12. See ADOT TS 7-1 for installation details.

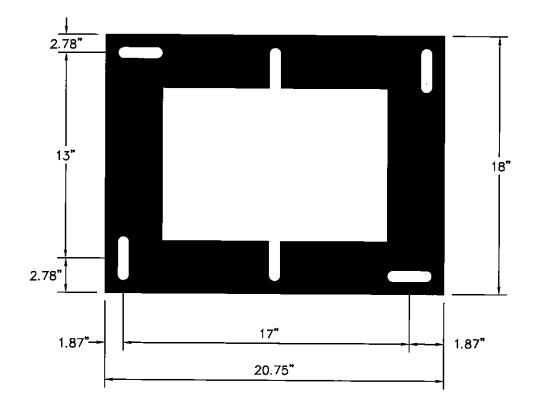
DETAIL NO. City of Scottsdale APPROVED BY: 2137 Scottsdale Standards & Specifications Committee

LOOP DETECTORS

DETAIL NO. 2137

Standard Details





- 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.

INSIDE VIEW OF BOTH SIDES OF BASE EXTENDER

DETAIL NO. **2139**

City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

TRAFFIC SIGNAL CONTROLLER CABINET BASE EXTENDER

DETAIL NO.

LOOP AND PEDESTRIAN PUSH BUTTON INPUTS

	Ph 2 4 AB	Ph 3	7 AB Ph 4 8 AB	9 AB Ph 5	11 AB Ph 6	13 AB Ph 7	15 AB Ph 8	17 AB 2 PPB 18 AB	19 AB 4PPB 20 AB	21 AB RRPre 22AB	23 AB AdvEn	25 AB EV A 26 AB	Stop Time 28 AB
Ph 1	Ph 2 Det	Ph 3	Ph 4	Ph 5	Ph 6	Ph 7	Ph 8	6 PPB Ped	8PPB Ped	Flash	Adv	EV B	6 Call Slot 14

- All Scottsdale model 330 cabinet input racks have 14 slots.
- Slots 1-8 are for vehicle detector loops.
- Phase 4 loops are terminated on slot 4 (7A&B and/or 8A&B).
- Phase 4 pedestrian push button is terminated on 19A and ppb neutral on 19B.
- 19B shall have a jumper to the neutral bar.
- All two phase intersections are to be wired to phases 2 and 4.
- Field output wiring for 2 phase signals shall be wired to 2R, 2Y, 2G and 4R, 4Y, 4G.
- 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.

DETAIL	NO.
214	Λ

MAIN DIRECTIONS

LEFT TURN DIRECTIONS (Main Color + White)

RIGHT TURN DIRECTIONS (Main Color + Black)

Color Of Wire For Power/Neutrals/Pushbuttons

Direction	Color
WB	Blue
ЕВ	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

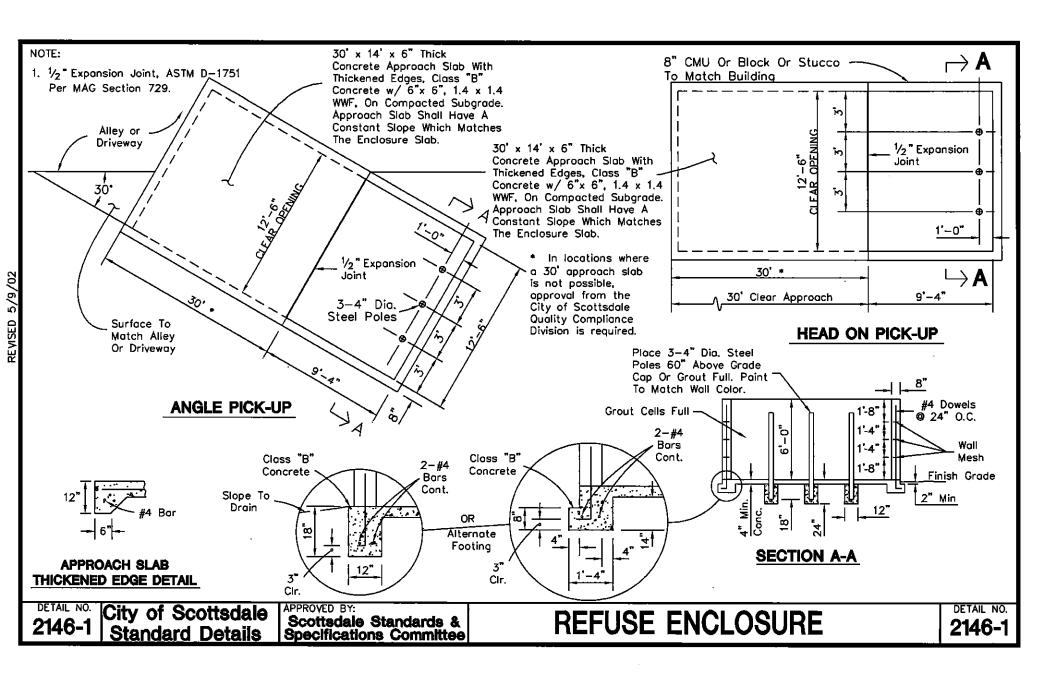
SBRT = South Bound Right Turn and shall be the phase for vehicles facing south and turning to west

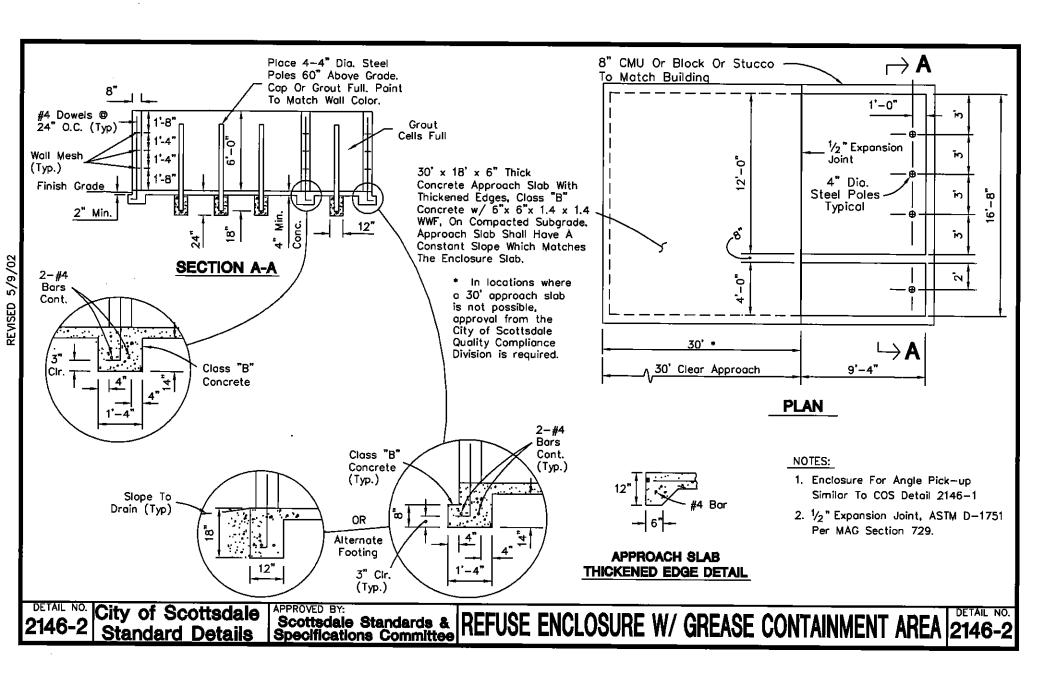
DETAIL NO.

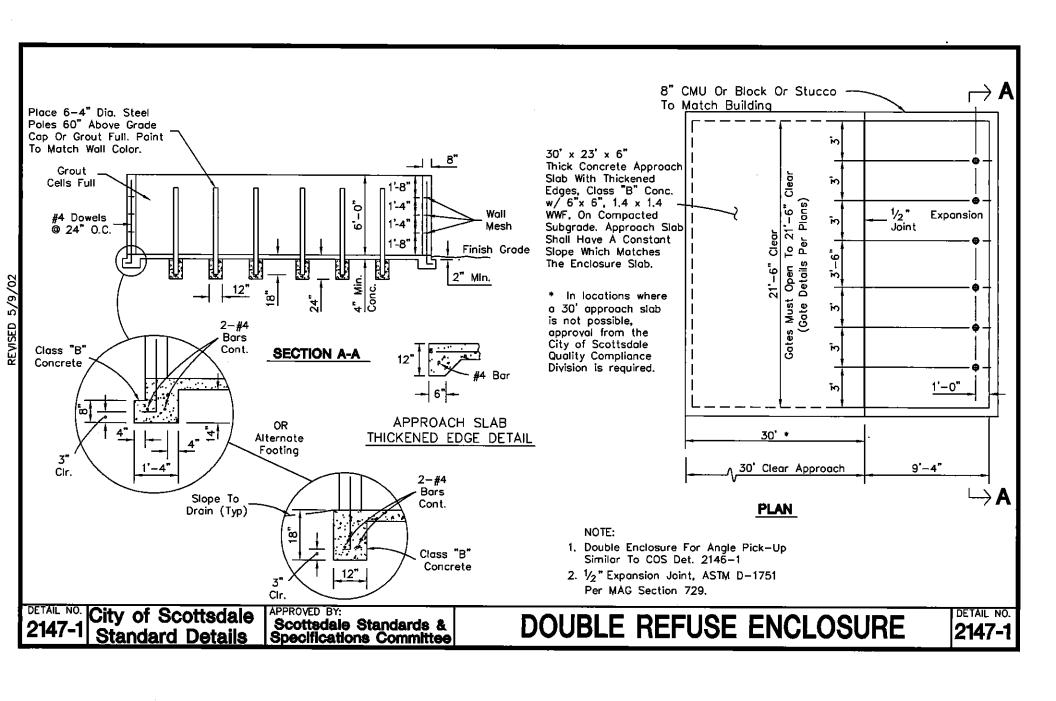
City of Scottsdale Standard Details

Scottsdale Standards & Specifications Committee

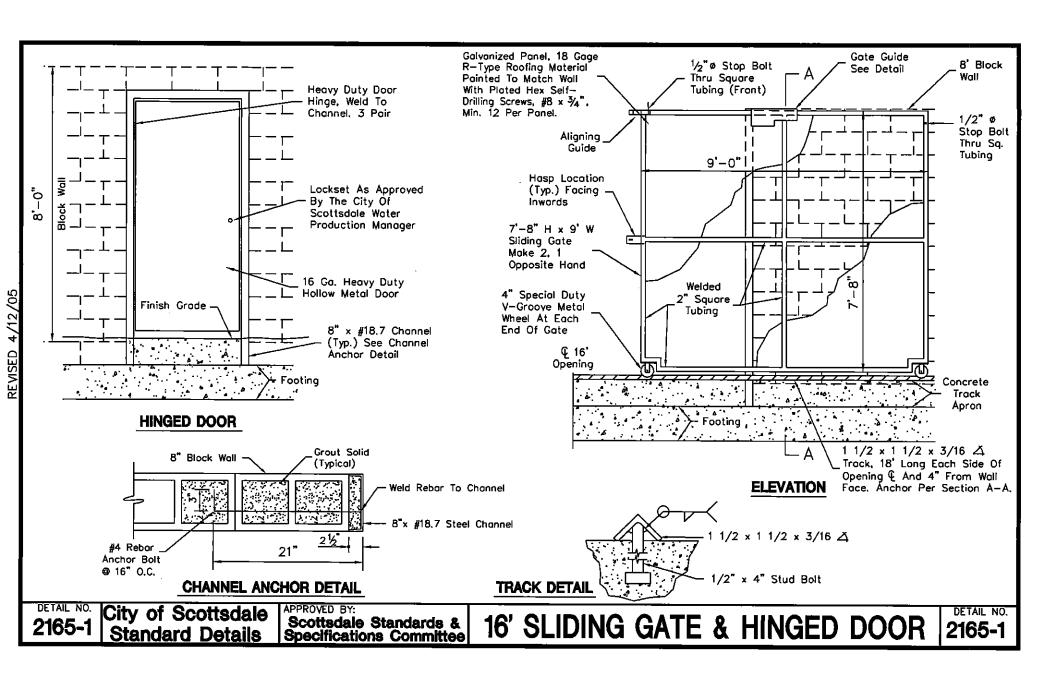
TAPE COLOR CODES FOR TRAFFIC SIGNAL WIRING

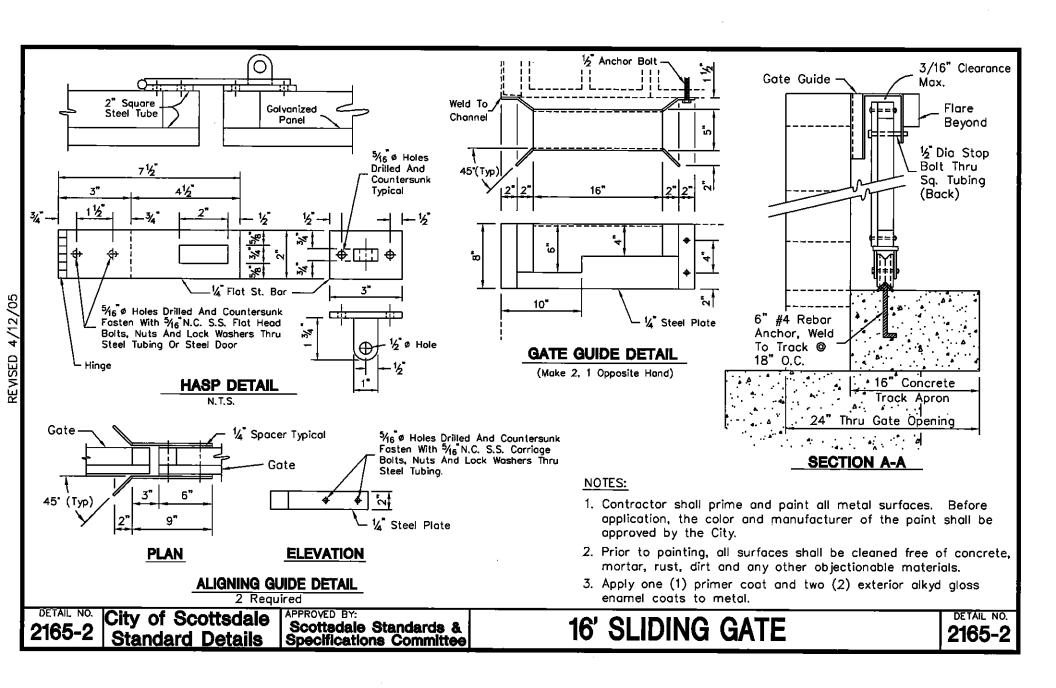


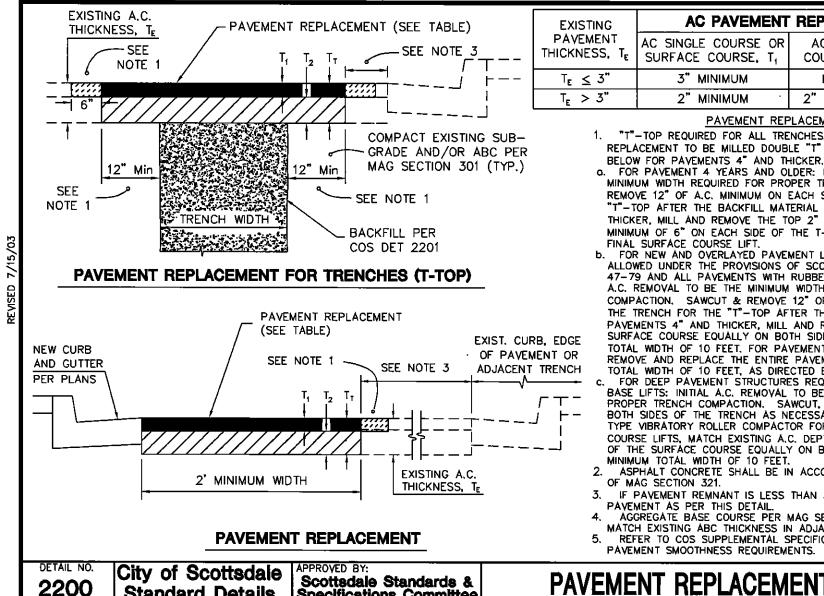




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Specifications Committee

Standard Details

AC PAVEMENT REPLACEMENT TABLE AC BASE TOTAL COURSE, T2 THICKNESS, TT NONE 3" MINIMUM 2" MINIMUM T. (MATCH EXIST)

PAVEMENT REPLACEMENT NOTES

"T"-TOP REQUIRED FOR ALL TRENCHES, A.C. SURFACE COURSE REPLACEMENT TO BE MILLED DOUBLE "T" CONFIGURATION AS SPECIFIED

a. FOR PAVEMENT 4 YEARS AND OLDER: INITIAL A.C. REMOVAL TO BE THE MINIMUM WIDTH REQUIRED FOR PROPER TRENCH COMPACTION, SAWCUT & REMOVE 12" OF A.C. MINIMUM ON EACH SIDE OF THE TRENCH FOR THE "T"-TOP AFTER THE BACKFILL MATERIAL IS PLACED, PAVEMENTS 4" AND THICKER, MILL AND REMOVE THE TOP 2" OF THE SURFACE COURSE A MINIMUM OF 6° ON EACH SIDE OF THE T-TOP PRIOR TO PLACEMENT OF THE FINAL SURFACE COURSE LIFT.

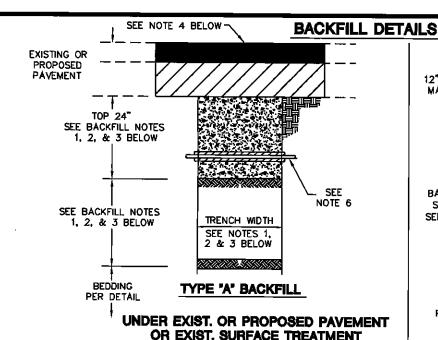
b. FOR NEW AND OVERLAYED PAVEMENT LESS THAN 4 YEARS OLD AND WHEN ALLOWED UNDER THE PROVISIONS OF SCOTTSDALE REVISED CODE SECTIONS 47-79 AND ALL PAVEMENTS WITH RUBBERIZED SURFACE COURSES: INITIAL A.C. REMOVAL TO BE THE MINIMUM WIDTH REQUIRED FOR PROPER TRENCH COMPACTION. SAWCUT & REMOVE 12" OF A.C. MINIMUM ON EACH SIDE OF THE TRENCH FOR THE "T"-TOP AFTER THE BACKFILL MATERIAL IS PLACED. PAYEMENTS 4" AND THICKER, MILL AND REMOVE THE TOP 2" OF THE SURFACE COURSE EQUALLY ON BOTH SIDES OF THE TRENCH TO A MINIMUM TOTAL WIDTH OF 10 FEET. FOR PAYEMENTS LESS THAN 4" THICK SAWCUT. REMOVE AND REPLACE THE ENTIRE PAVEMENT SURFACE TO A MINIMUM TOTAL WIDTH OF 10 FEET, AS DIRECTED BY THE ENGINEER.

c. FOR DEEP PAYEMENT STRUCTURES REQUIRING TWO OR MORE PAYEMENT BASE LIFTS: INITIAL A.C. REMOVAL TO BE THE MINIMUM WIDTH REQUIRED FOR PROPER TRENCH COMPACTION. SAWCUT, REMOVE AND REPLACE A.C. ON BOTH SIDES OF THE TRENCH AS NECESSARY TO ACCOMODATE A RIDE ON TYPE VIBRATORY ROLLER COMPACTOR FOR PLACEMENT OF THE A.C. BASE COURSE LIFTS, MATCH EXISTING A.C. DEPTH. MILL AND REMOVE THE TOP 2* OF THE SURFACE COURSE EQUALLY ON BOTH SIDES OF THE TRENCH TO A

ASPHALT CONCRETE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS

- IF PAYEMENT REMNANT IS LESS THAN 36", REMOVE AND REPLACE
- AGGREGATE BASE COURSE PER MAG SECTION 702 SHALL BE PROVIDED TO MATCH EXISTING ABC THICKNESS IN ADJACENT ROADWAY.
- REFER TO COS SUPPLEMENTAL SPECIFICATIONS, SECTION 336.2.4 FOR PAVEMENT SMOOTHNESS REQUIREMENTS.

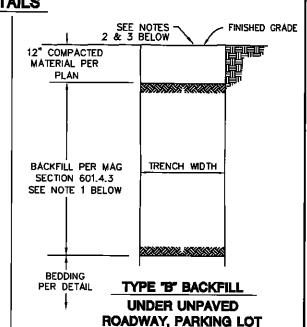
PAVEMENT REPLACEMENT



BACKFILL NOTES

1. TRENCHES LESS THAN 24" IN WIDTH - 1/2 SACK CSLM, MAG 728, FULL DEPTH OF BACKFILL BOTTOM OF ABC LAYER IN PAYEMENT STRUCTURE OR 6" BELOW PAYEMENT IN FULL DEPTH PAYEMENT STRUCTURES. CONSTRUCT PAYEMENT STRUCTURE TO MATCH EXISTING AND IN ACCORDANCE WITH COS DETAIL 2200.

- 2. TRENCHES 24" TO 6' IN WIDTH 1/2 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 UNPAVED ALLEYS WITH
- LIGNIN-BASED DUST PALLATIVE, MAG 792, 1:1 DILUTION RATIO, 0.50
 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 3/4" TO 2" SHALL BE WRAPPED WITH 3/4" WIDE BLACK INSULATION BEFORE PLACING CSLM.
- 7. RECYCLED ASPHALT SHALL NOT BE USED FOR BACKFILL.



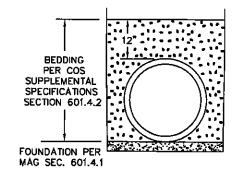
BACKFILL NOTES

- MAG 601.4.3 FULL DEPTH OF BACKFILL
 ENTIRE DISTURBED EXISTING SURFACE TO 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.

AND VACANT LAND

4. RECYCLED ASPHALT SHALL NOT BE USED FOR BACKFILL.

BEDDING DETAILS BEDDING PER COS SUPPLEMENTAL SPEC'S SECTION 601.4.2 BEDDING DETAIL CAST-IN-PLACE PIPE



BEDDING DETAIL ALL OTHER PIPE

NOTES:

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

DETAIL NO.

City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

TRENCH BEDDING & BACKFILL

2201

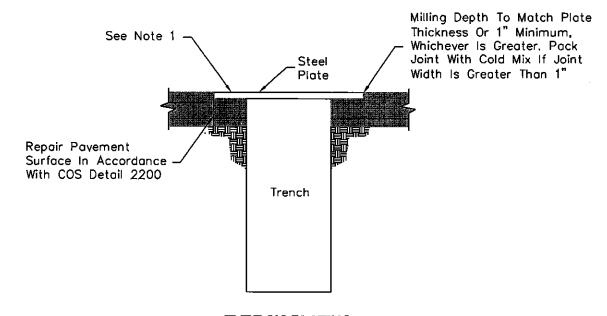
NOTES:

Cold

Mix

- 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.

See Note 1



TYPE "B" PLATING

Trench

CITY POSTED SPEEDS UNDER 35 MPH

TYPE 'A' PLATING

CITY POSTED SPEEDS OF 35 MPH AND GREATER OR BUS & TRUCK ROUTE

DETAIL NO. **2202**

City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

TRENCH PLATING

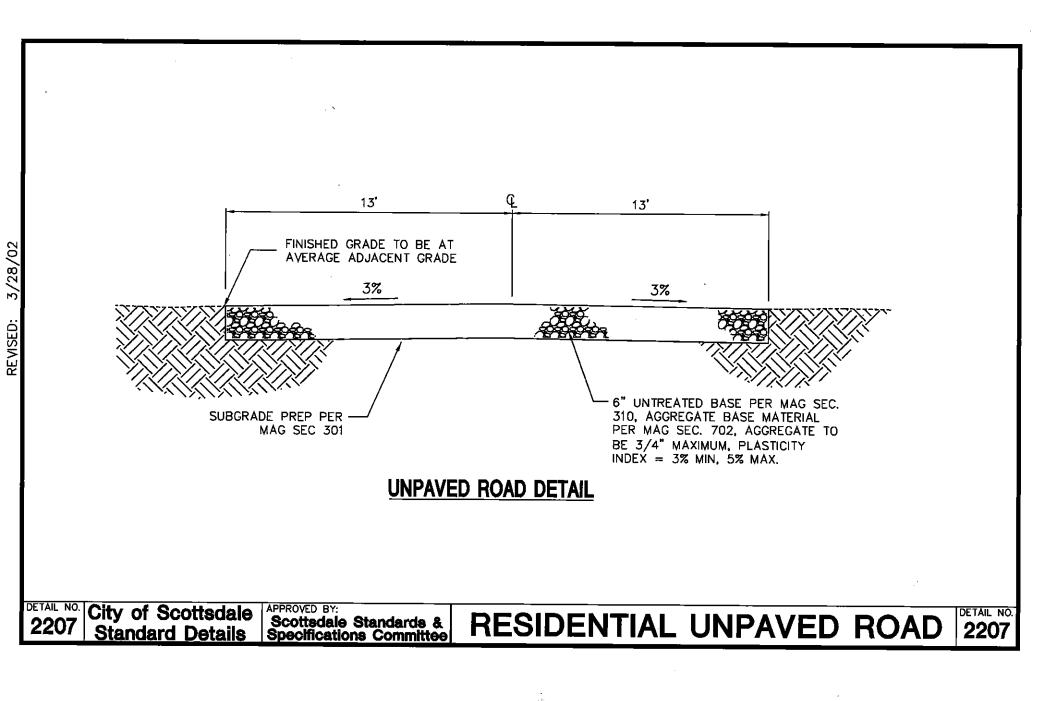
DETAIL NO. **2202**

Cold

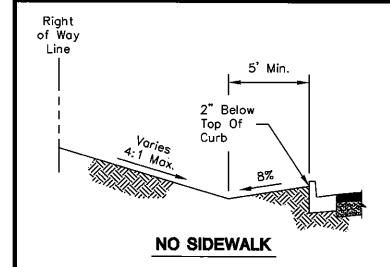
Mix

Steel

Plate



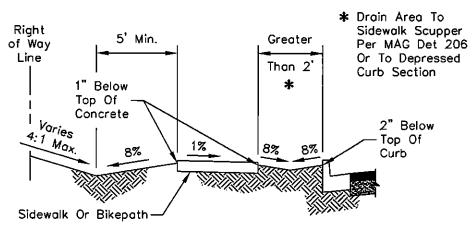
ا خدال



Right of Way 5' Min. Line 1" Below Top Of Concrete Varies Varies A: 1 Max. 8% 1% NOTE: Runoff Shall Not Be Directed To Cross Over The Top Of A Sidewalk.

of Way 5' Min. 2' Or Line Less 1" Below Top Of Concrete V_{Qries} 2" Below 4:1 Mox. Top Of 0% 8% Curb Sidewalk Or Bikepath SIDEWALK LESS THAN 2' BEHIND CURB

Right



SIDEWALK MORE THAN 2' BEHIND CURB

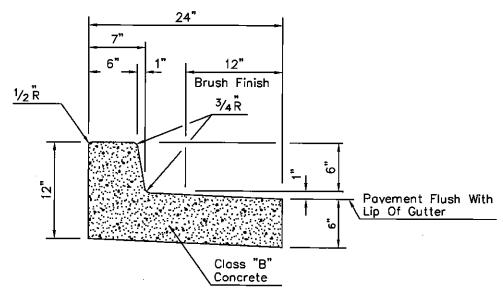
2210

City of Scottsdale Standard Details

SIDEWALK AT BACK OF CURB

APPROVED BY:
Scottsdale Standards &
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GRADING BEHIND THE CURB

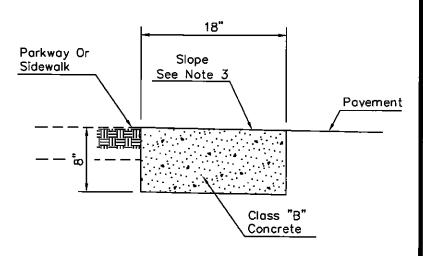


VERTICAL CURB & GUTTER WITH DEPRESSED LIP

TYPE "A"

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 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

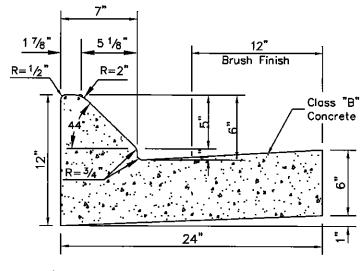
NOTES

- 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.

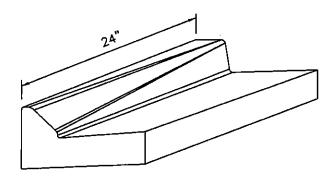
2220 City of Scottsdale Standard Details

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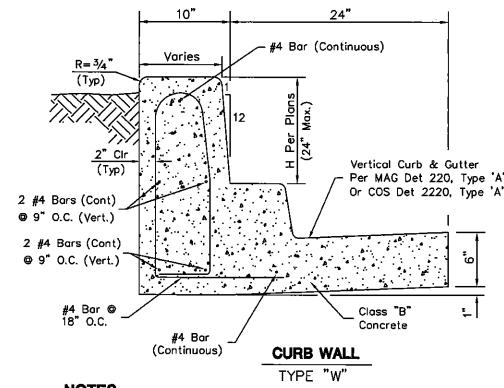
CURB AND GUTTER - TYPES A & B



MOUNTABLE/MEDIAN CURB & GUTTER TYPE "M"



MOUNTABLE CURB TO VERTICAL CURB TRANSITION



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 $\frac{1}{2}$ 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".
- Colored concrete, if called for on the plans, shall be colored integrally.
- Steel reinforcement Per M.A.G. Section 727.

City of Scottsdale Standard Details

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CURB & GUTTER - TYPES M & W

.

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Scottsdale Standards &
Specifications Committee

MEDIÁN NOSE CURVE DATA

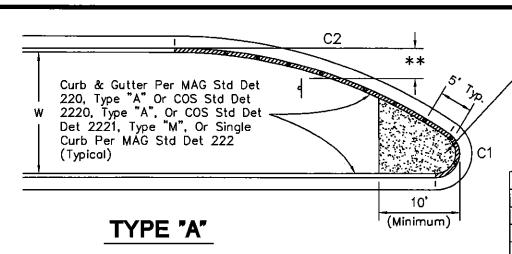
City of Scottsdale Standard Details

DETAIL NO.

2225

Curve Data Shown Is For Streets On Linear Alignments Only.

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"			
C3	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"					
C3	2.50'	4.93'	3.77	4,17'	112.53.08"					
C4	59.50	<i>3</i> 4.85¹	17.94	34.35	33'33'26"					

Paint Top And Front Of Curt

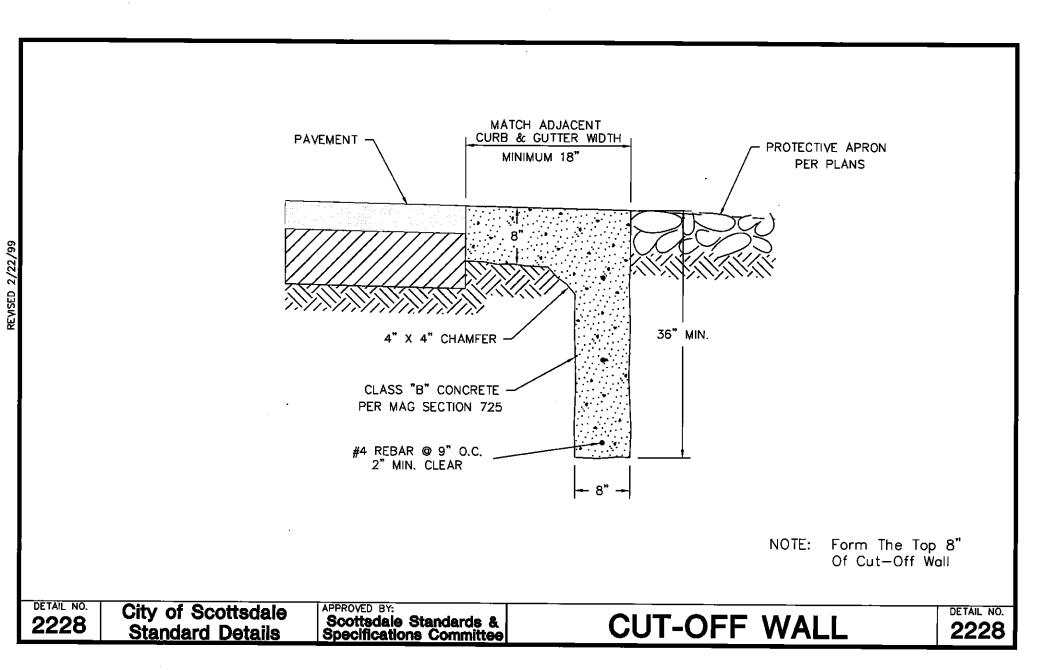
Paint Top And Front Of Curb With Reflectorized Yellow Traffic Paint And Add Type "D" Yellow Reflective Raised Pavement Markers to Median Nose Nose, Spaced at 5—feet.

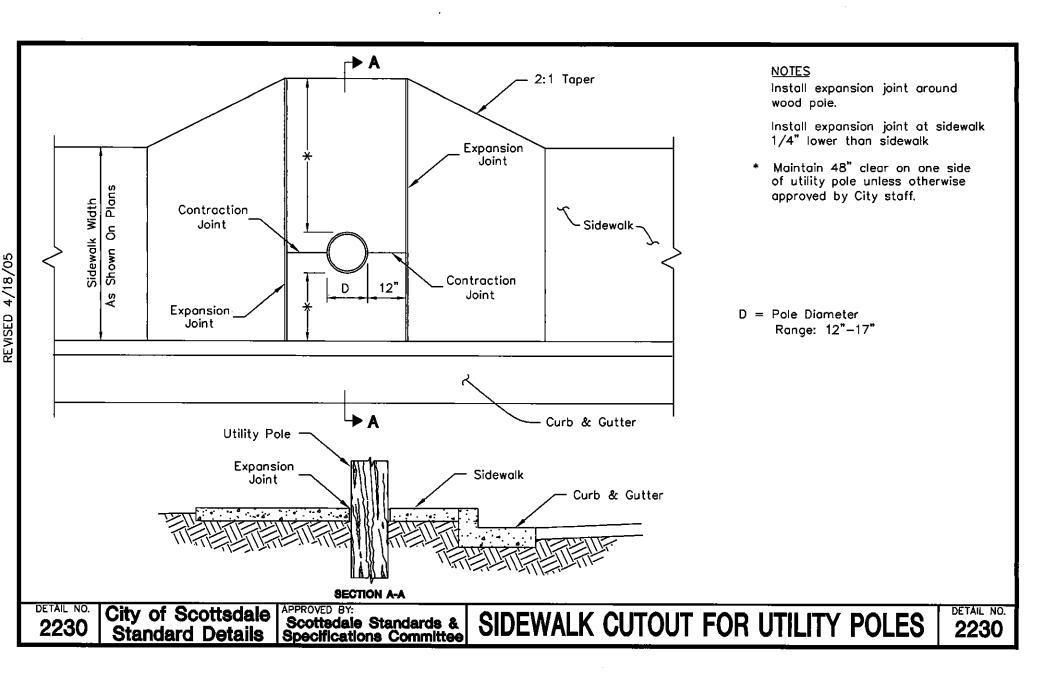
		C4
w	Median Nose Sign Per COS Std Det 2133	C3
	· · · · · · · · · · · · · · · · · · ·	
	TYPE "B"	C4 5 1/2 (Minimum)

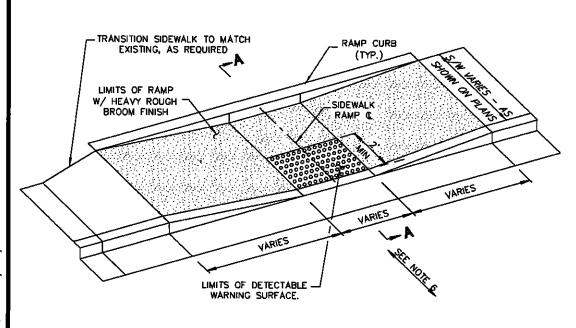
City of Scottsdale
Standard Details

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MEDIAN NOSE DETAILS

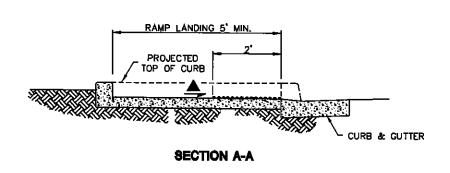


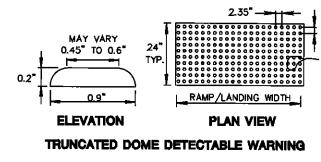




NOTES

- 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 CON-CRETE RAMP, AND SHALL CONFORM TO THE DETAILS IN THE PLANS AND IN ACCORD-ANCE 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.,
- 5, 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 DETER-MINED 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 TRAVEL AND DIRECTED TOWARD RAMP ON THE OPPOSITE SIDE OF STREET.





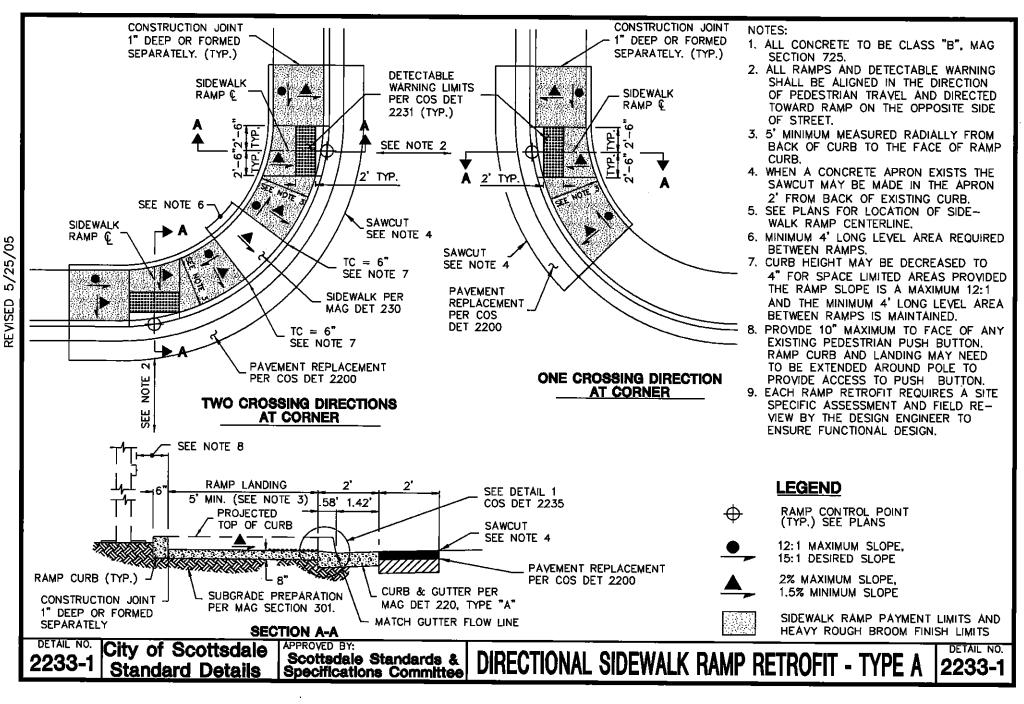
SHALL BE A SQUARE GRID, EOUAL IN BOTH DIRECTIONS. DOMES SHALL BE ALIGNED IN THE DIRECTION OF PEDESTRIAN TRAYEL AND DIRECTED TOWARD RAMP ON OPPOSITE SIDE OF STREET.

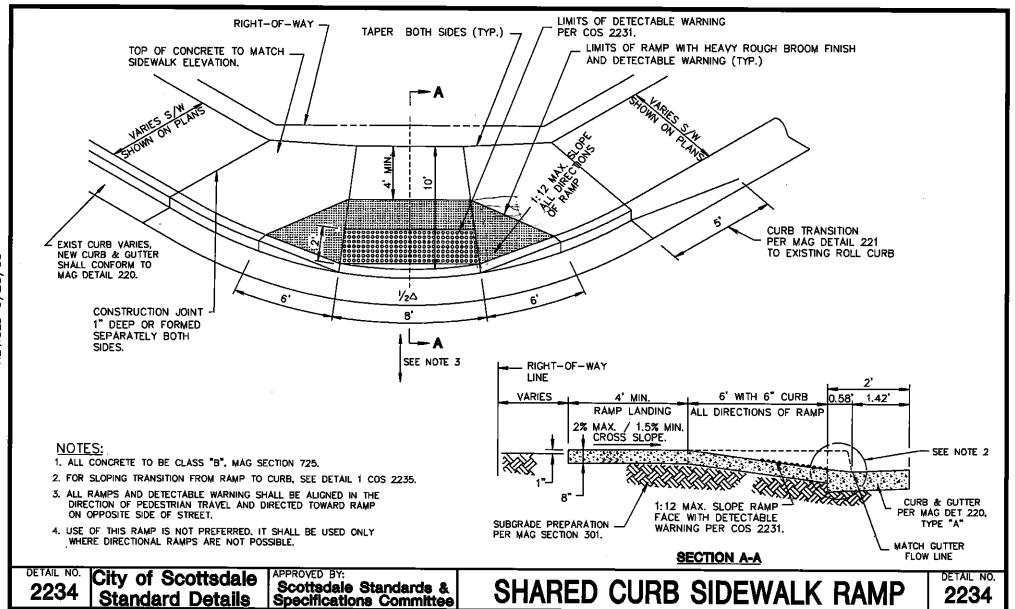
DETAIL NO. **2231** City of Scottsdale Standard Details

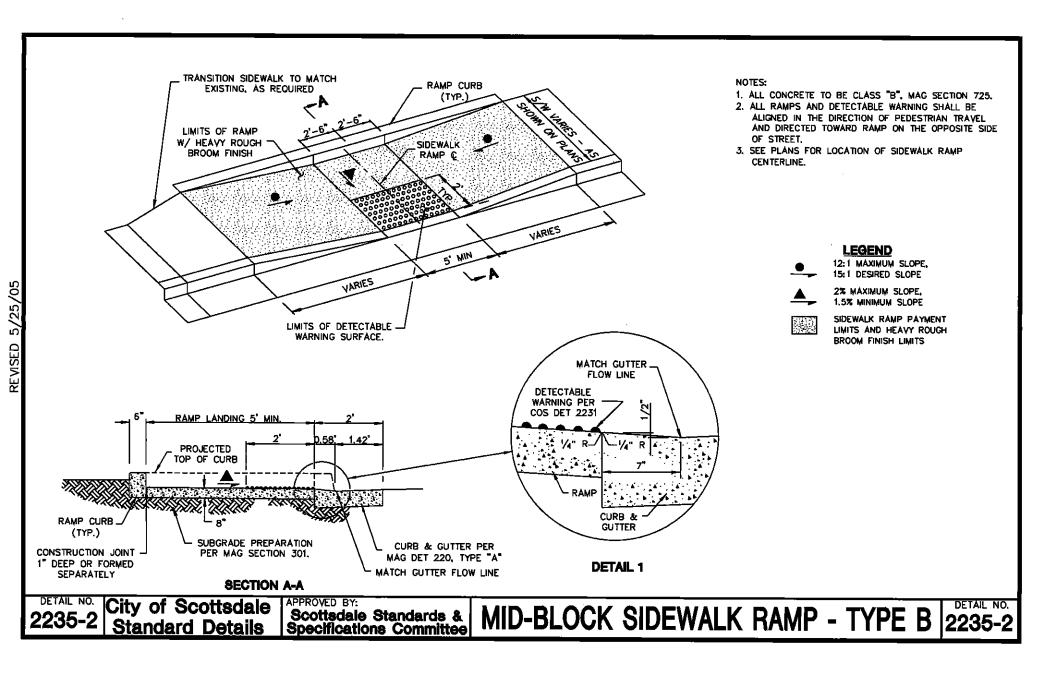
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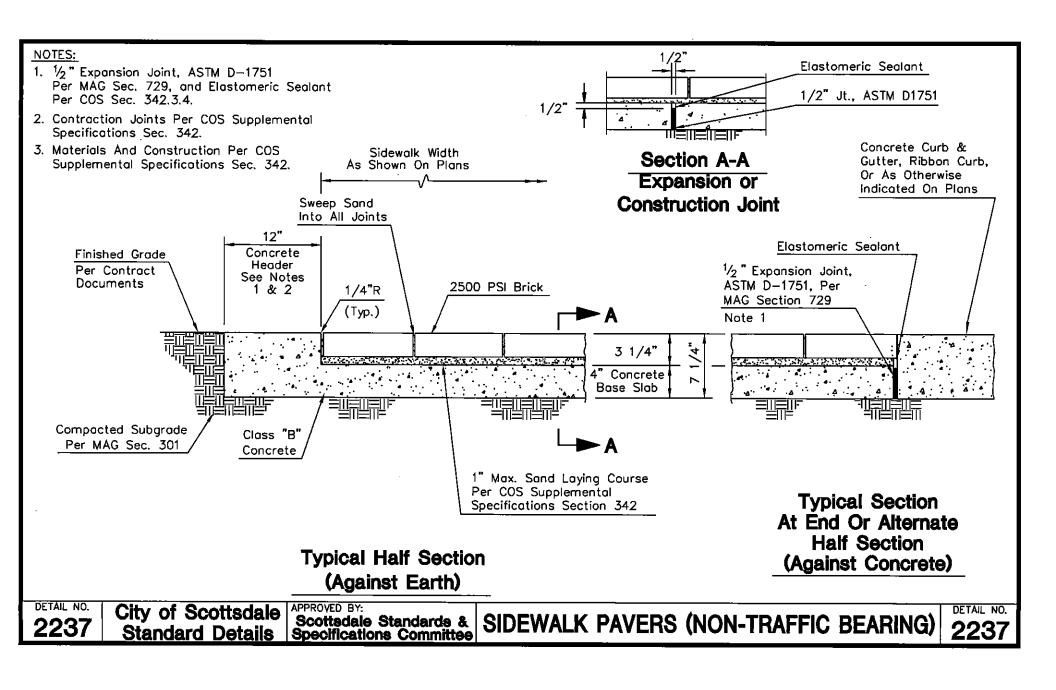
Scottsdale Standards & Specifications Committee

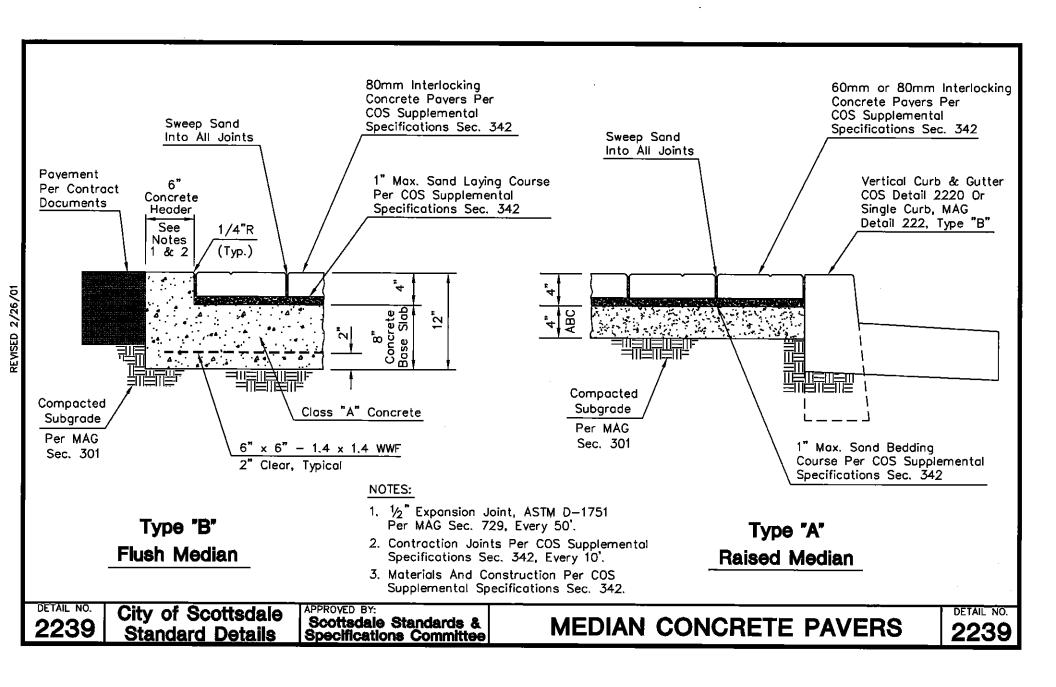
DETECTABLE WARNING SURFACE

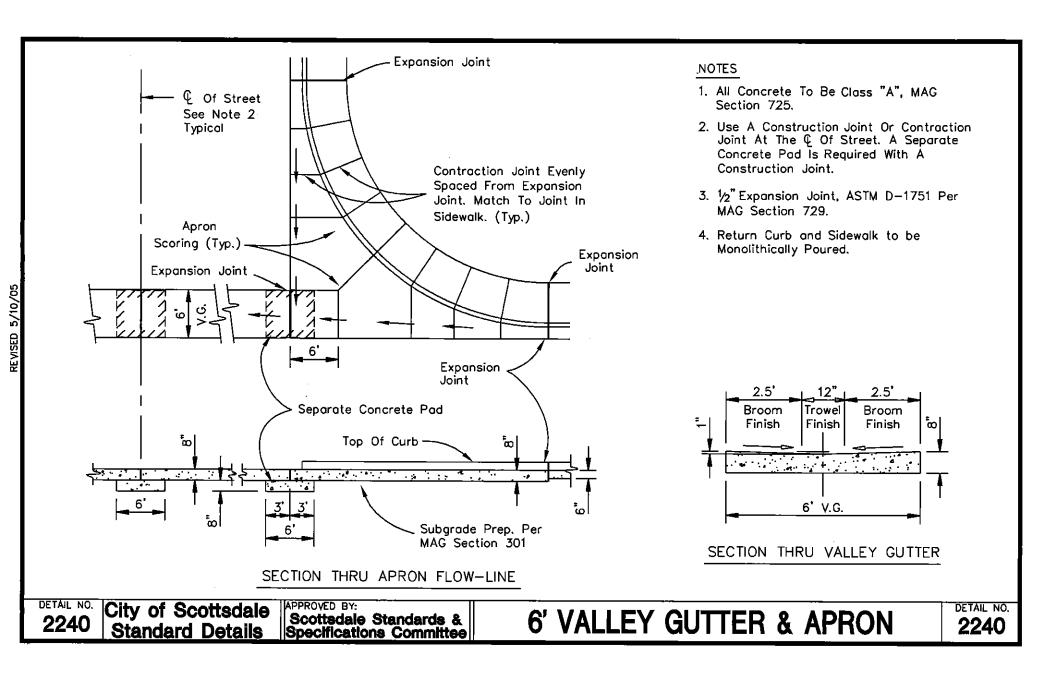


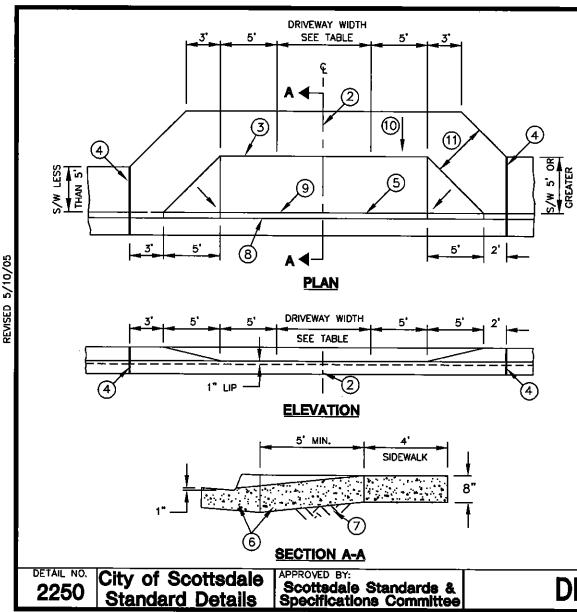












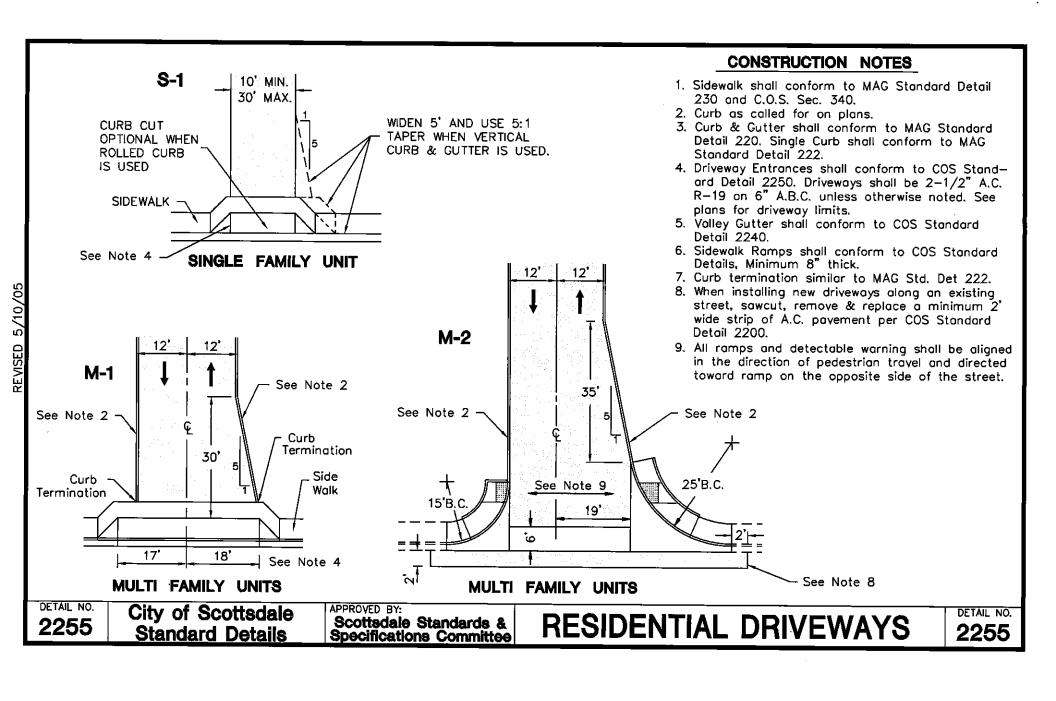
NOTES

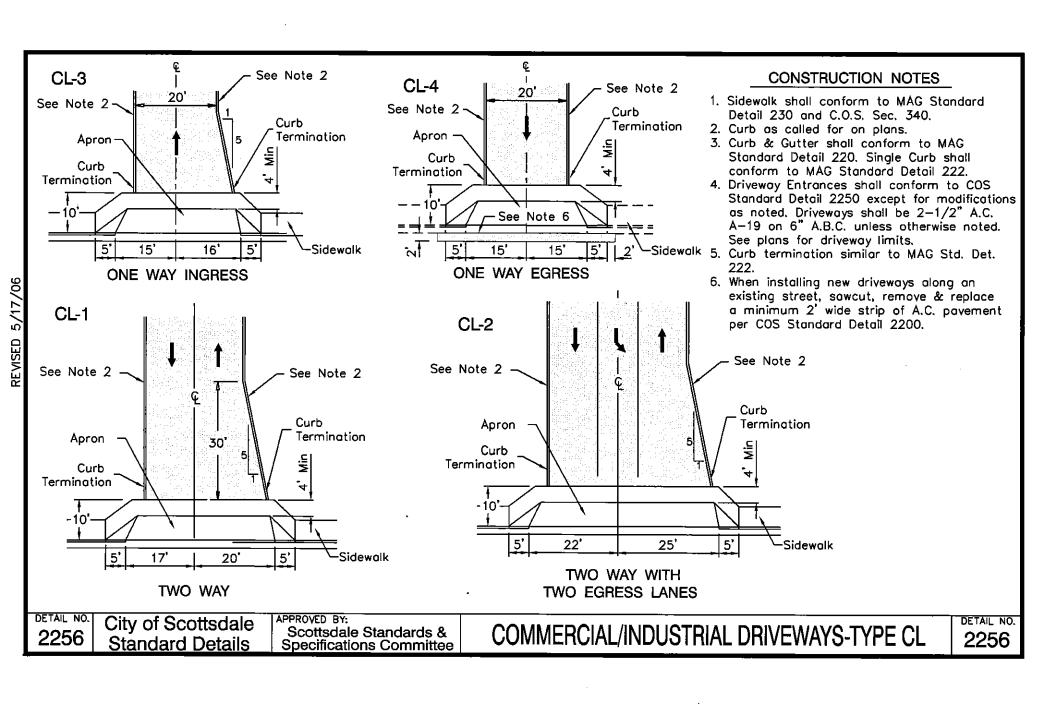
- 1 DEPRESSED CURB SHALL BE PAID FOR AT THE UNIT PRICE BID FOR THE TYPE OF CURB USED AT THAT LOCATION.
- 2 CONTRACTION JOINT ON DRIVEWAY CENTERLINE.
- 3 BACK OF DRIVEWAY ENTRANCE CONSTRUCTION JOINT OR SCORE MARK.
- 4 MASTIC EXPANSION JOINT THROUGH CURB AND GUTTER, EXPANSION JOINT FILLER SHALL BE 1/2" 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"

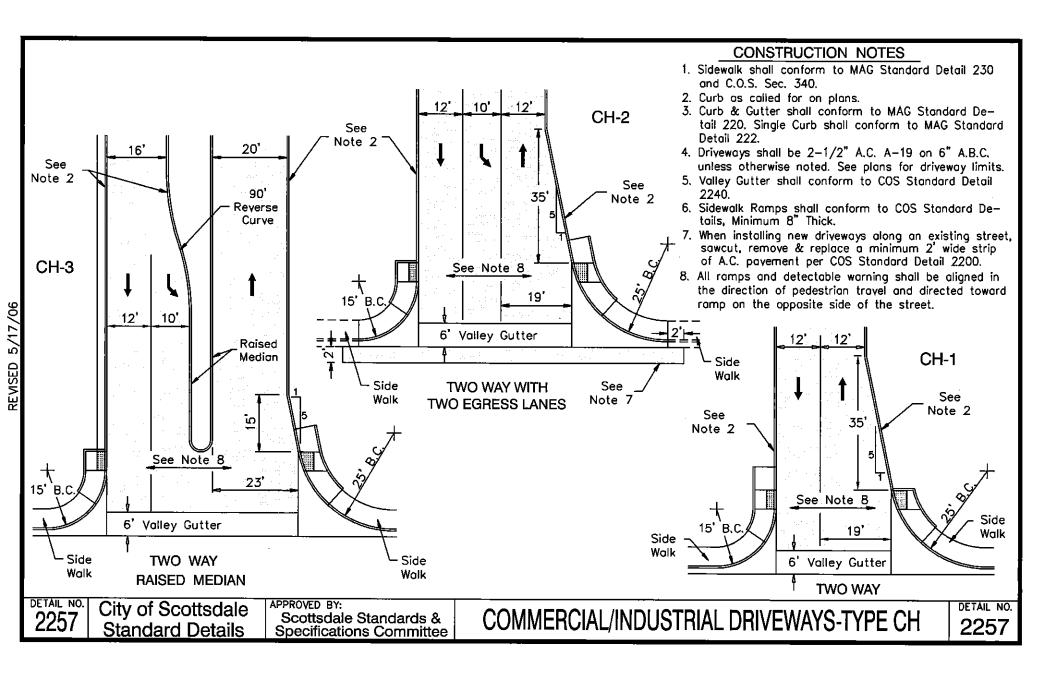
COMMERCIAL & INDUSTRIAL					
DRIVEWAY WIDTH	MIN.	MAX.	CLASS		
COMMERCIAL ZONING INDUSTRIAL ZONING + 24 MIN. FOR TWO WAY TRAFFIC	+ 16' + 16'	40 ' 40'	88		
RESIDENTIAL					
DRIVEWAY WIDTH	MIN,	MAX.	CLASS		
MAJOR STREET COLLECTOR STREET LOCAL STREET * 16' DESIRABLE	16' •12' 12'	30' 30'	888		

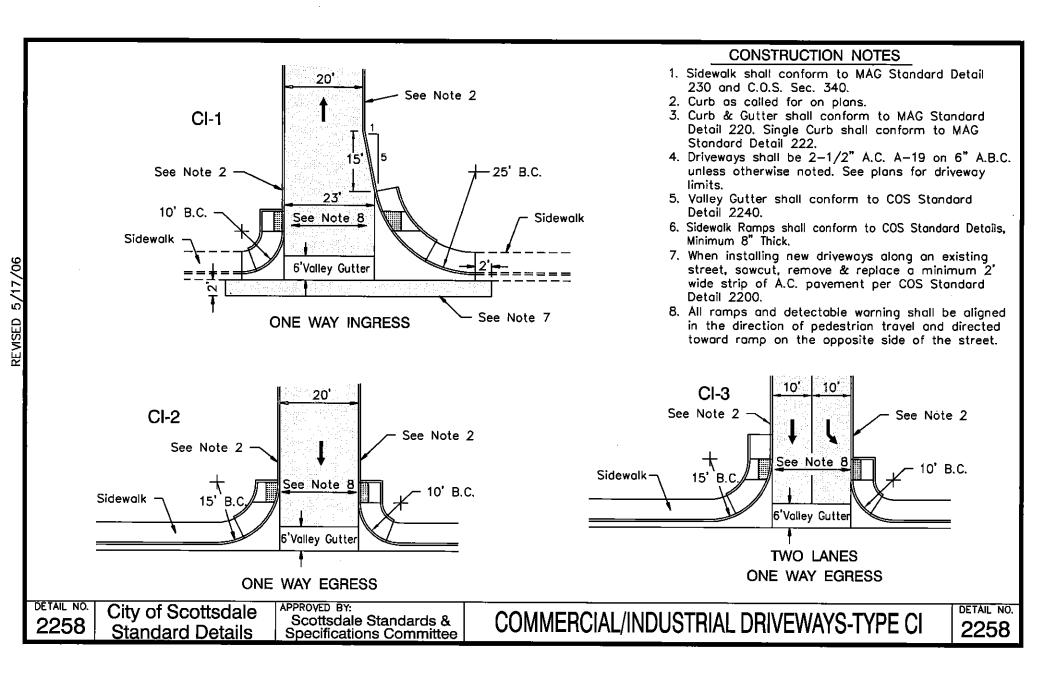
DRIVEWAY ENTRANCES

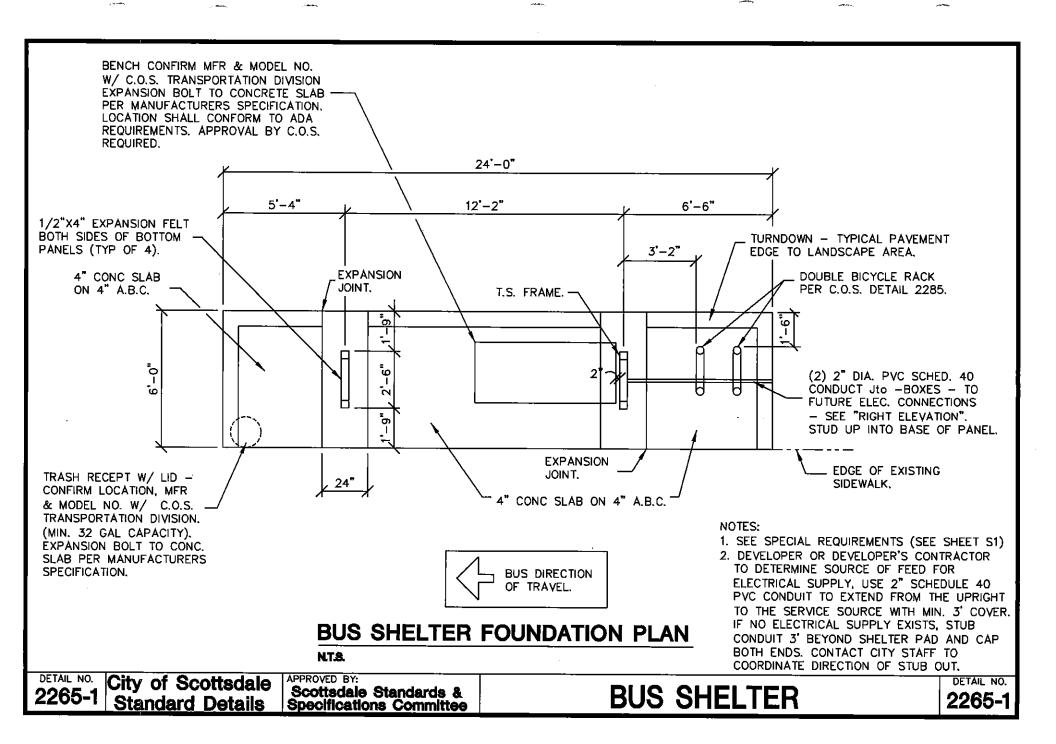
DETAIL NO. **2250**

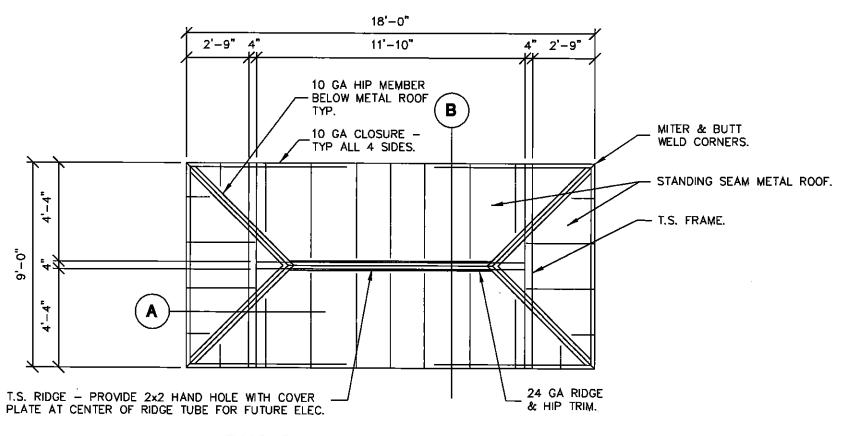












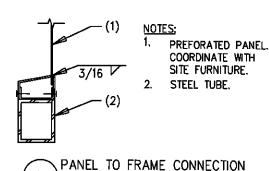
BUS SHELTER FRAMING PLAN

N.T.S.

2265-2 City of Scottsdale Standard Details

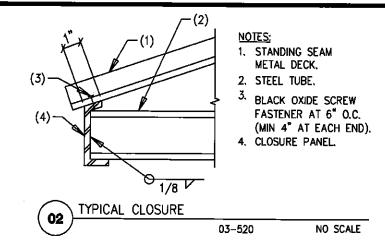
APPROVED BY:
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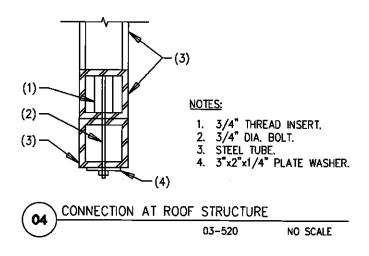
BUS SHELTER

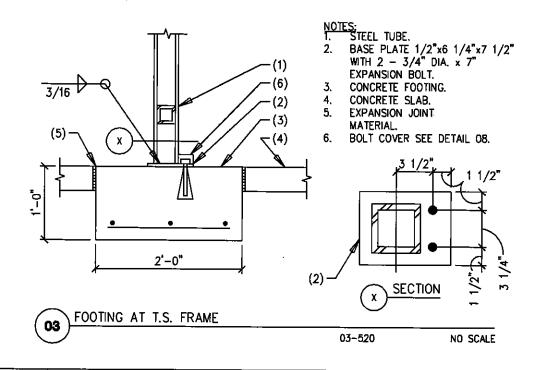


03-520

NO SCALE







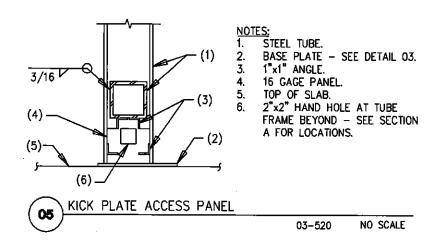
DETAIL NO. 2265-4

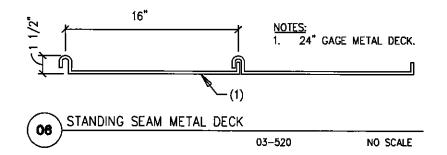
City of Scottsdale Standard Details APPROVED BY:

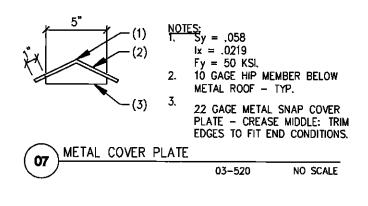
Scottsdale Standards & Specifications Committee

BUS SHELTER

DETAIL NO. **2265-4**

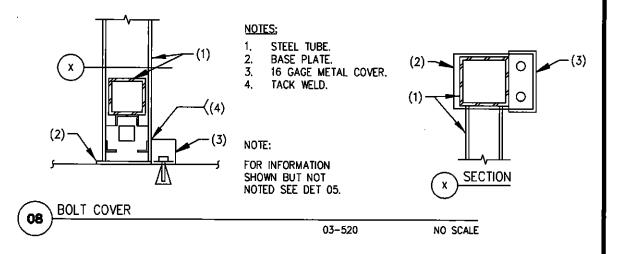






City of Scottsdale

Standard Details



APPROVED BY:
Scottsdale Standards &
Specifications Committee

BUS SHELTER

DETAIL NO. 2265-5

GENERAL STRUCTURAL NOTES

BUILDING CODE:

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

LATERAL:

WND 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 PRO-PER CLEARANCES. SUPPORT OF FOUNDATION REINFORC-ING MUST PROVIDE ISOLATION FROM MOISTURE CORR-OSION BY USE OF A PLASTIC OR CONCRETE CHAIR, DUCT-TAPE COVERED REINFORCING IS NOT AN ACCEPT-ABLE 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 WELDS; THEIR DISCRETION. SHOP WELDS AND FIELD WELDS SHALL BE SHOWN ON THE SHOP DRAWINGS SUBMITTED FOR REVIEW. STEEL DECKING:

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 DOC-UMENTS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT SHALL NOT BE CONSIDERED CHANGES TO CONTRACT DOC-UMENTS. 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.

DETAIL NO.

City of Scottsdale Standard Details

APPROVED BY:

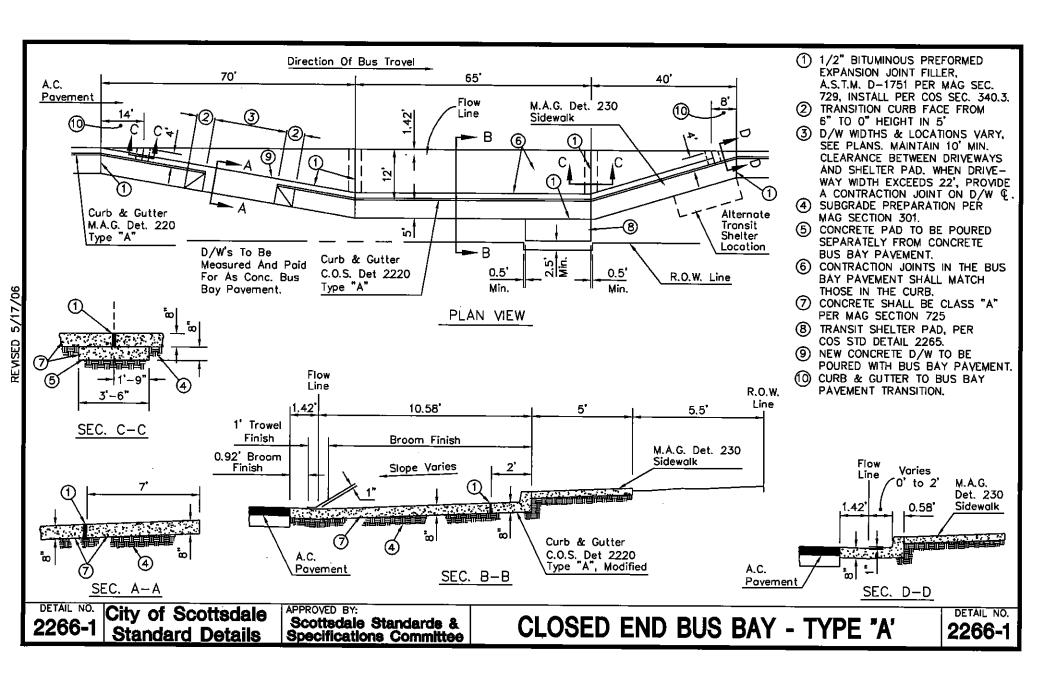
Scottsdale Standards & Specifications Committee

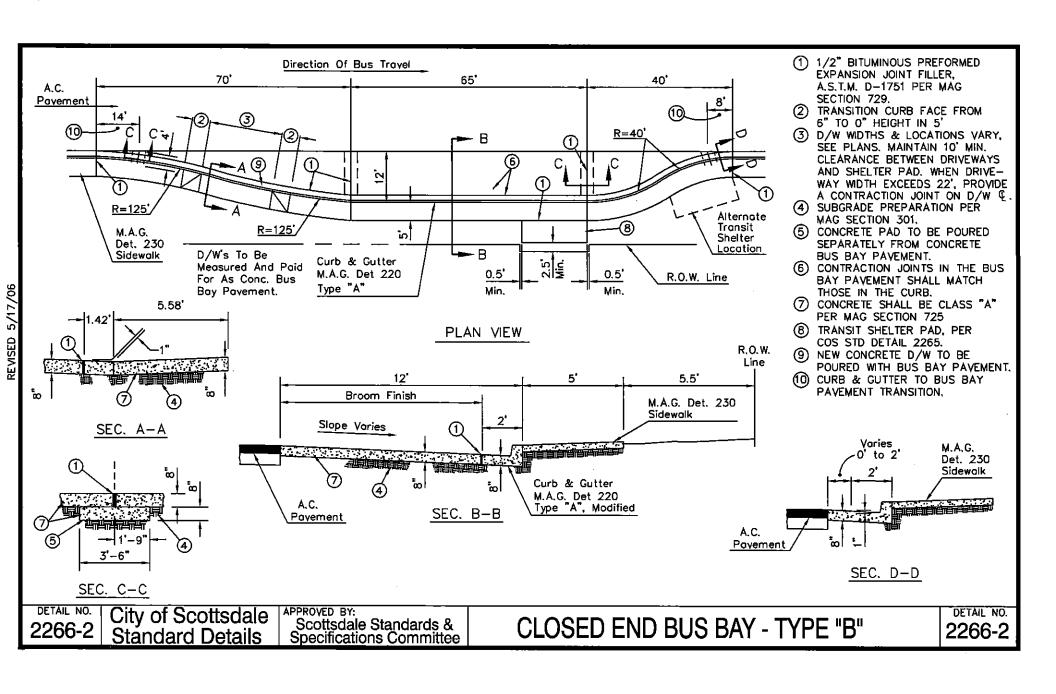
BUS SHELTER

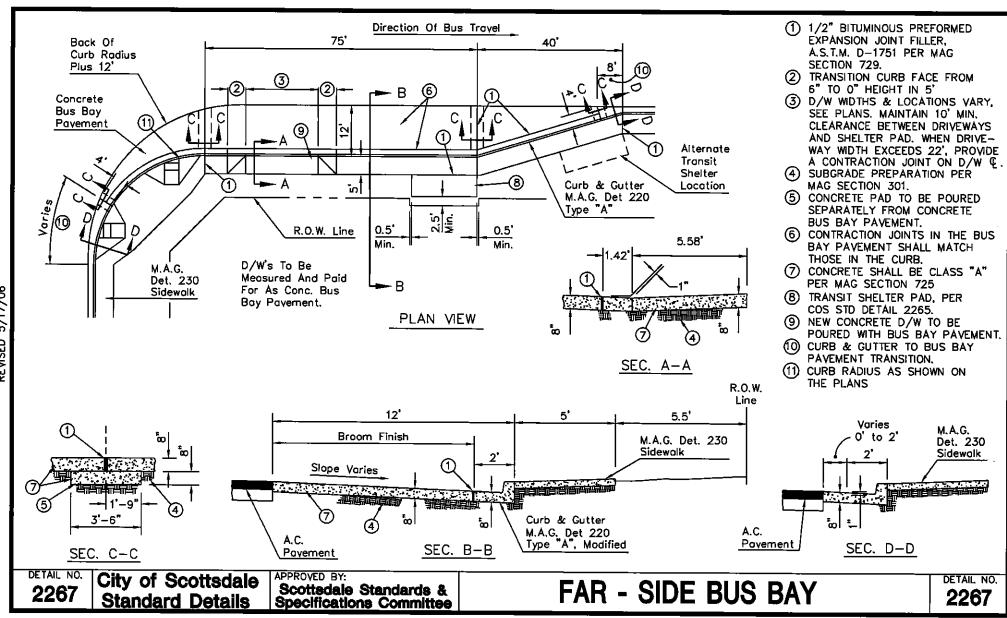
DETAIL NO. 2265-6

A .

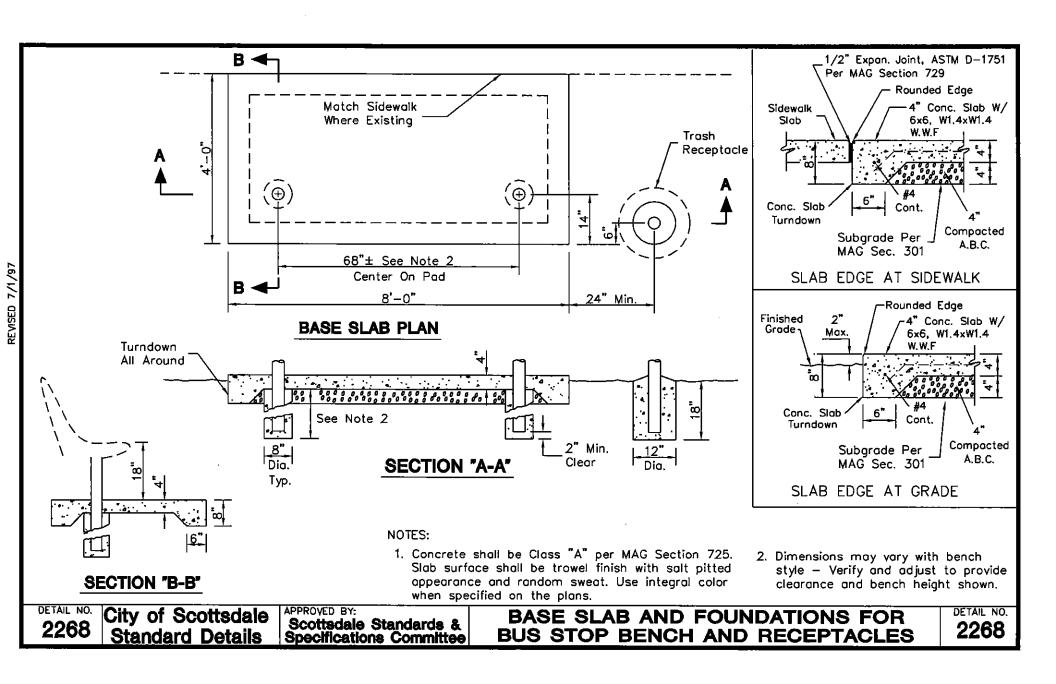
ABBREVIA'	TIONS		NOTE: ABBREVIATIONS MAY OR M	IAY NOT HAVE PERIC	DDS, BUT SHALL BE READ AS SAME.
A,B, —	ANCHOR BOLT	DN —	- DOWN	PCI —	PRECAST/PRESTRESSED CONCRETE
ABC ———		DWG(S)	- DOWN - DRAWNG(S) - END TO CENTERLINE - END TO END - EDGE OF SLAB - EQUAL	1	INSTITUTE
ACI	AGGREGATE BASE COURSE AMERICAN CONCRETE INSTITUTE	E.C. ————	- END TO CENTERLINE	P.C	- PRECAST CONCRETE
A/C	—— AIR CONDITIONER	E.E. —	-FND TO FND	PIF —	— POUNDS PER LINEAR FOOT — PLUS OR MINUS — PREFABRICATED
A.F.F. ———		F.O.S. —	- FDGE OF SLAB	 -	- PLUS OR MINUS
AISC		FO —	- FOLIAL	DEFFAR	— DOFFARDICATED
	CONSTRUCTION	EQUIP	- FOUIPMENT	PSE	— POUNDS PER SQUARE FOOT — POUNDS PER SQUARE INCH — POST-TENSIONING INSTITUTE
AISI ———		EXP. BOLT (E.B.) —	- FYPANSION ROLT	DSI	- POUNDS PER SQUARE FOOT
	INSTITUTE	EXP. JT (E.J.)	- FYPANSION JOINT		- POST TENSIONING INSTITUTE
ALTC ———		F W	- EACH WAY	PEINE	- POST-TENSIONING INSTITUTE
	CONSTRUCTION	E.W.———————————————————————————————————	- EINICHED ELOOP	KEINF	— REINFORCING — STEEL DECK INSTITUTE — SHORT LEG HORIZONTAL
Δ1 T	—— ALTERNATE —— AMERICAN NATIONAL STANDARDS	EOM .	-FINISHED FLOOR -FACE OF MEMBER -FACE OF STEEL -FACE OF WALL -CALVANTED	SUI —	- SIEEL DECK INSTITUTE
ANSI		F.O.S	FACE OF STEEL	SLH	— SHORT LEG HURIZUNTAL
AITO	INSTITUTE	F.O.S. —	FACE OF SILEL	SLV —	- SHORT LEG HORIZONTAL - SHORT LEG VERTICAL - STEEL JOIST INSTITUTE - SIMILAR - SQUARE
ADA		F.O.W. —	FACE OF WALL	SI	— STEEL JOIST INSTITUTE
APA —	- AMERICAN PLYWOOD ASSOCIATION	GA —	- GAGE (UNIT OF MEASUREMENT)	SIM ———	— SIMILAR
ARCH L		GALV ———	- GALVANIZED	SQ. ———	— SQUARE
		G.S.N. ———	- GALVANIZED - GENERAL STRUCTURAL NOTES	SSMA	- STEEL STUD MANUFACTURERS
	AND MATERIALS	GLB (GLULAM) ——	-GLUED-LAMINATED BEAM		
AWS ———	AND MATERIALS	HORIZ —	- GLUED-LAMINATED BEAM - HORIZONTAL REINFORCING - INTERNATIONAL BUILDING CODE - INTERNATIONAL CONFERENCE OF	STD	— STANDARD
© ——	——— AT (MEASUREMENT)	IBC ————	- INTERNATIONAL BUILDING CODE	STL	— STEEL
ВМ ———	BEAM	ICBO —	- INTERNATIONAL CONFERENCE OF	TL	- TOTAL LOAD
B.F.F	BELOW FINISHED FLOOR		BUILDING OFFICIALS	LTOB —	— TOP OF BEAM
BLK ———	BELOW FINISHED FLOOR BLOCK	I,F,W,———	-INSIDE FACE OF WALL	TOCT —	ASSOCIATION — STANDARD — STEEL — TOTAL LOAD — TOP OF BEAM — TOP OF CONCRETE TOPPING
B 0 B	DATENIA OF BELL.	I,O.D.	BUILDING OFFICIALS -INSIDE FACE OF WALL -INTERPRETATION OF DRAWINGS	TOD	- TOP OF DECK
B.O.D. ———	BOTTOM OF DECK	ו עועו/ע ו	- 1000 DOUNDE	TOF	TOP OF DECK TOP OF FOOTING
B.O.F. ———	BOTTOM OF FOOTING	KIF	- KIPS PER LINEAR FOOT	T.O.1.	— TOP OF FOOTING
BRG —	BOTTOM OF BEAM BOTTOM OF DECK BOTTOM OF FOOTING BEARING CAMBER	IBS (#)	- KIPS PER LINEAR FOOT - POUNDS - LIGHT GAGE STEEL - LIGHT GAGE STEEL ENGINEERS	T.O.L.	TOP OF LEDGER TOP OF MASONRY TOP OF PLATE
c		1.05	- LICHT CACE STEEL	1.0.M.	TOP OF MASONRY
		LCSEA -	LICHT CACE STEEL ENGINEEDS	1.0.P. —————	TOP OF PLATE
C.C.	——— CENTERLINE TO CENTERLINE ——— CENTER OF GRAVITY ——— CAST IN PLACE ——— CENTERLINE	LUSEA	ACCOCIATION	1.0.P.C. ———	— TOP OF PRECAST CONCRETE — TOP OF STEEL — TOP OF WALL
C.G.	CAST IN DIACE		ASSOCIATION	1.0.S. ———	— TOP OF STEEL
C.L.	CASI IN PLACE	L.O.D. ———	- LOCATION OF DETAILS - LIVE LOAD	1.O.W.	TOP OF WALL
C.L.	CENTERLINE	LL.	- LIVE LOAD	TPI ———	- TRUSS PLATE INSTITUTE
C.L.B. ——	CENTERLINE OF BEAM	LLH —	- LONG LEG HORIZONTAL - LONG LEG VERTICAL	TYP —	TYPICAL TONGUE AND GROOVE
C.L.C. ——	CENTERLINE OF COLUMN	LLV —	- LONG LEG VERTICAL	T&G	- TONGUE AND GROOVE
C.L.F. ———	CENTERLINE CENTERLINE OF BEAM CENTERLINE OF COLUMN CENTERLINE OF FOOTING CENTERLINE OF WALL CLEAR	MAS	- MASONRY - MASONRY CONTROL JOINT	UBC	— TONGOE AND GROUVE — UNIFORM BUILDING CODE — UNLESS NOTED OTHERWISE — VERTICAL REINFORCING — WEST COAST LUMBER ASSOCIATION — WEST COAST LUMBER INSPECTION
C.L.W. ———	CENTERLINE OF WALL	MAS C.J	- MASONRY CONTROL JOINT	U.N.O.	UNLESS NOTED OTHERWISE
CLR —	CLEAR	MAX	- MAXIMUM - METAL BUILDING MANUFACTURERS	VERT	- VERTICAL REINFORCING
CONC	CONCRETE	MBMA	- METAL BUILDING MANUFACTURERS	WCLA	- WEST COAST LUMBER ASSOCIATION
CONC C.J. ——			ASSOCIATION	WCLIB	- WEST COAST LUMBER INSPECTION
CONC S.J. ——		MECH'L —	- MECHÁNICAL		RIIRFALI
C.M.U	CONCRETE MASONRY UNIT	MFR('S)	- MANUFACTURER('S)	ww.f.	WEIDED MIDE EXPOIC
CONN —	CLEAR CONCRETE CONCRETE CONTROL JOINT CONCRETE SAWCUT JOINT CONCRETE MASONRY UNIT CONNECTION CONTINUOUS	I MIN	- MANUFACTURER('S) - MINIMUM - NOT APPLICABLE	wwp \	- WELDED WIRE FABRIC - WESTERN WOOD PRODUCTS
CONT	—— CONTINUOUS	N/A	- NOT APPLICABLE	""" A	ACCOCIATION
c.o.s. ———	CITY OF SCOTTSDALE CONCRETE REINFORCING STEEL	NTS	- NOT TO SCALE	w/	ASSOCIATION
CRSI —		n c =	- ON CENTER	W/C	- WITH - WATER TO CEMENT RATIO - WITHOUT
J., J.	INSTITUTE	0.0.	ON CENTER	W/C	- WATER TO CEMENT RATIO
DI		ODD -	ODDOCITE	w/0 ————	— WITHOUT
CD DIA	—— DEAD LOAD —— DIAMETER	1 00014	OPPOSITE	1	
			- NOT APPLICABLE - NOT TO SCALE - ON CENTER - OUTSIDE FACE OF WALL - OPPOSITE - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION		
DETAIL NO. ICITY OF CONTROL APPROVED BY:					
2265-7 Standard Details Scottsdale Standards & Scottsdale Standards & Specifications Committee BUS SHELTER 2265-					
7	<u>Otativatu Datalis Specifica</u>				

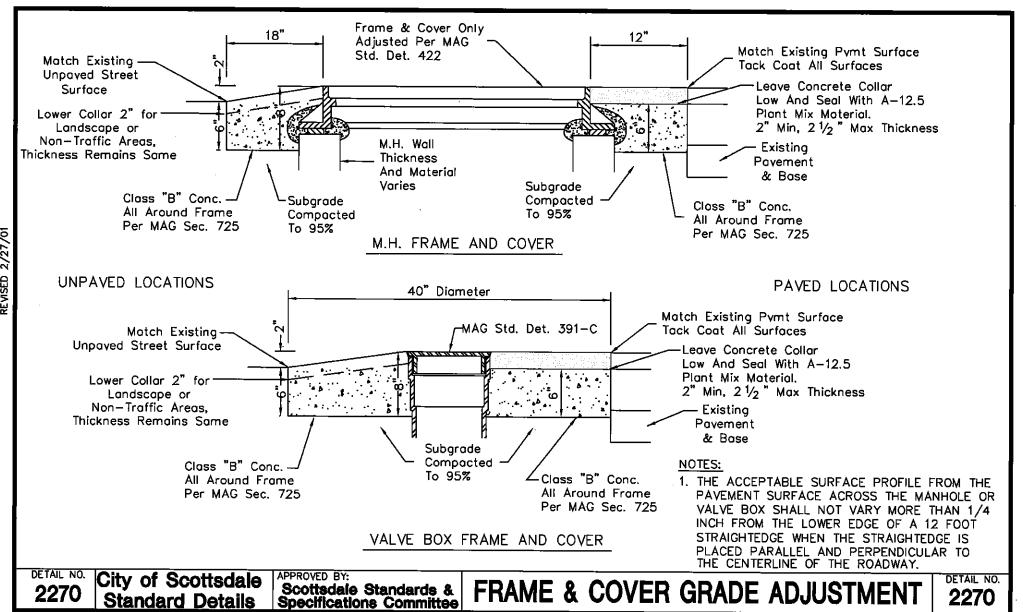


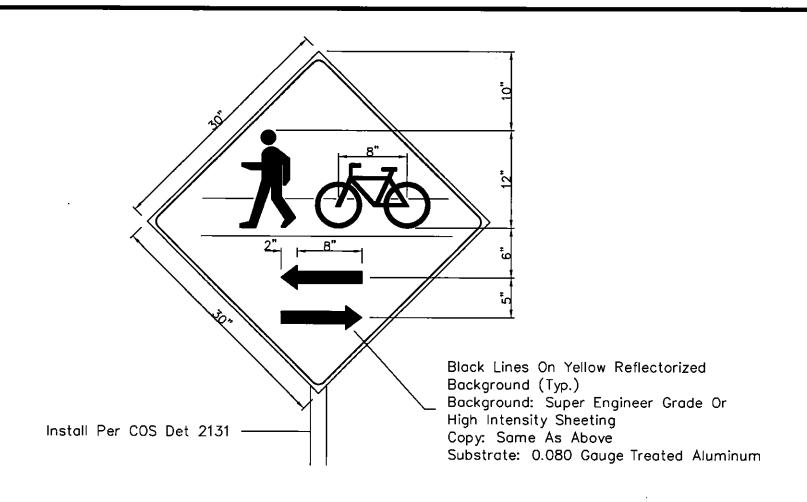




REVISED 5/17/06







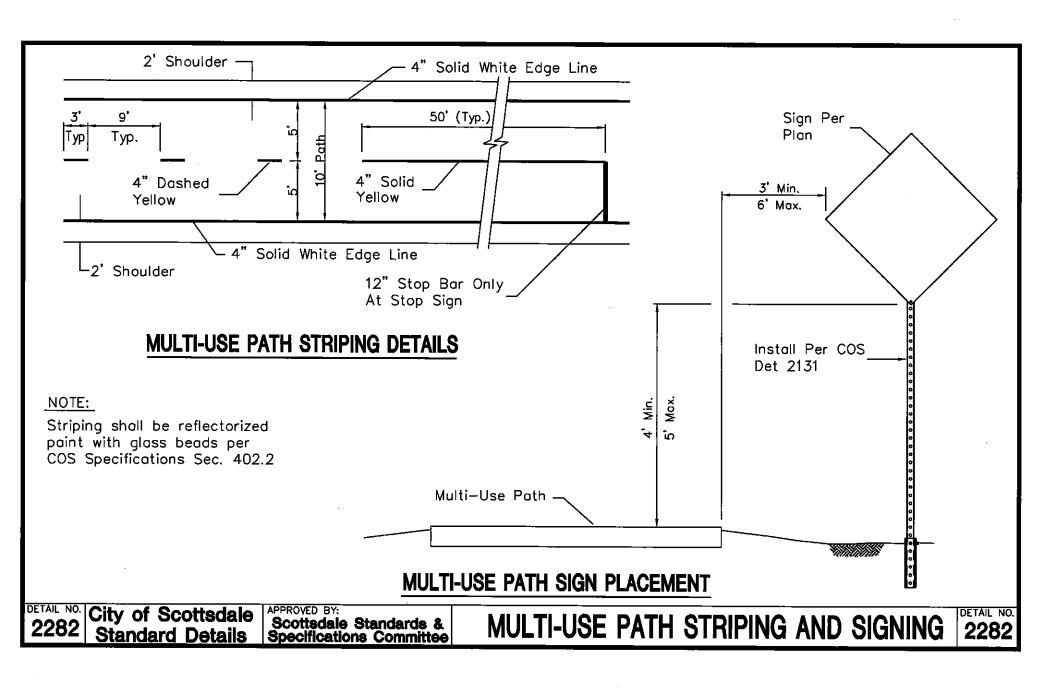
MULTI-USE PATH CROSSING SIGN

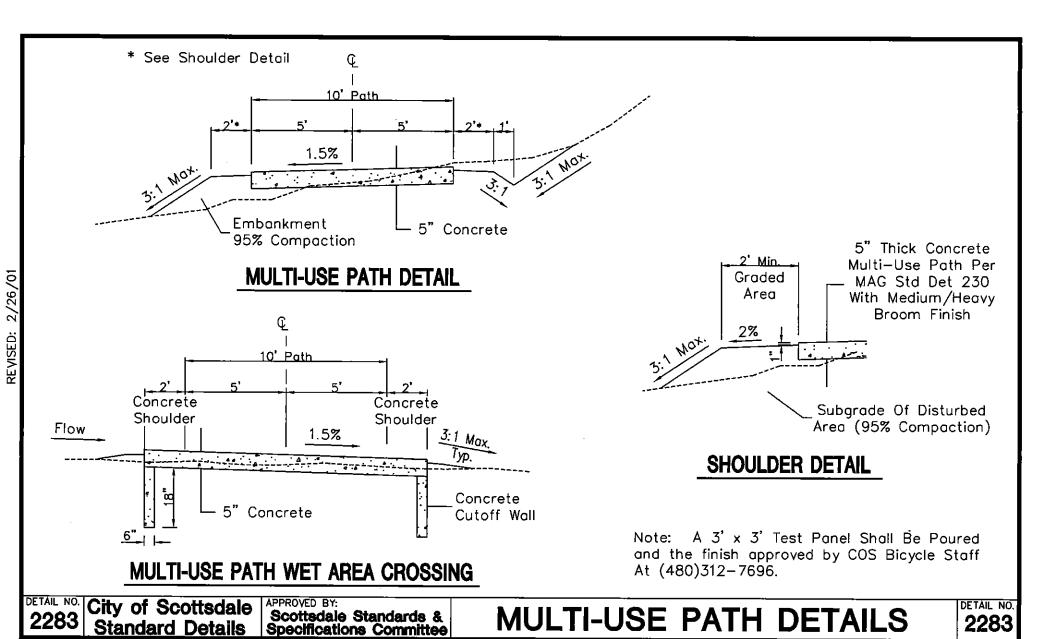
City of Scottsdale Standard Details

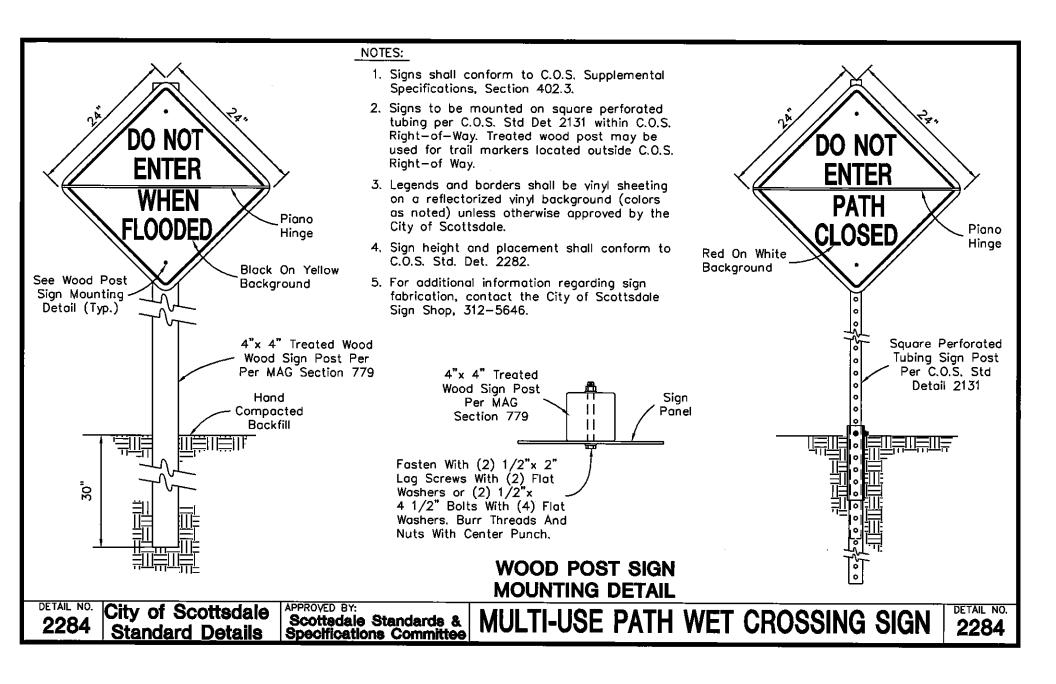
APPROVED BY:
Scottsdale Standards &
Specifications Committee

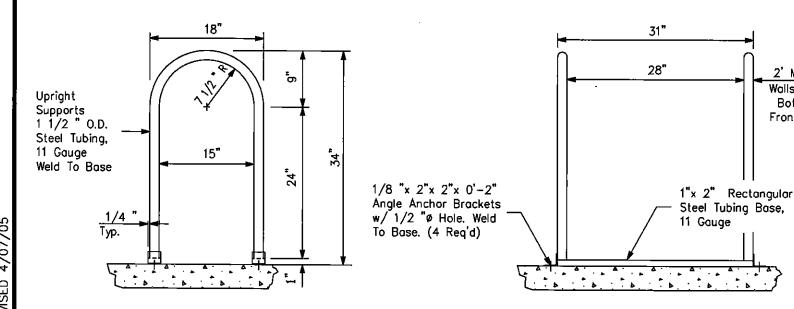
MULTI-USE PATH CROSSING SIGN

DETAIL NO. 2281



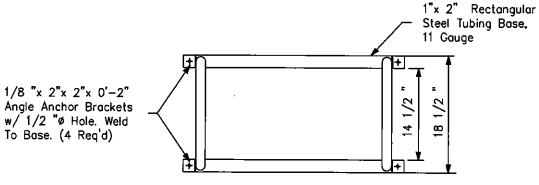






NOTES:

- 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.



DETAIL NO.

2285

City of Scottsdale Standard Details

APPROVED BY:

DOUBLE BICYCLE RACK

2' Min. Clearance From Walls Or Obstructions On

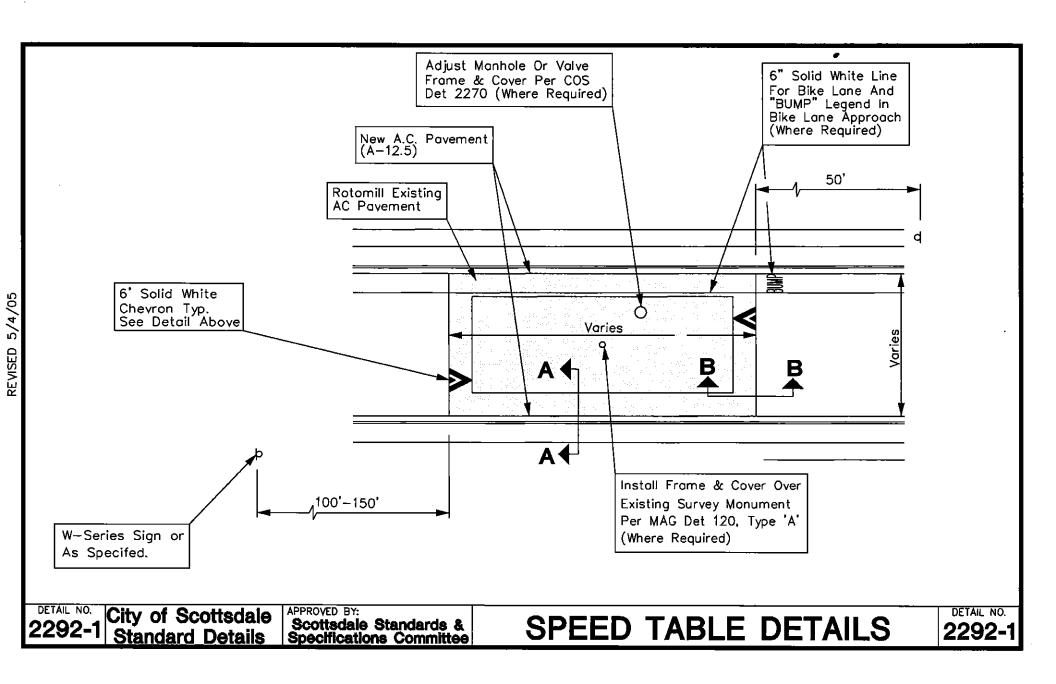
Both Sides And Back.

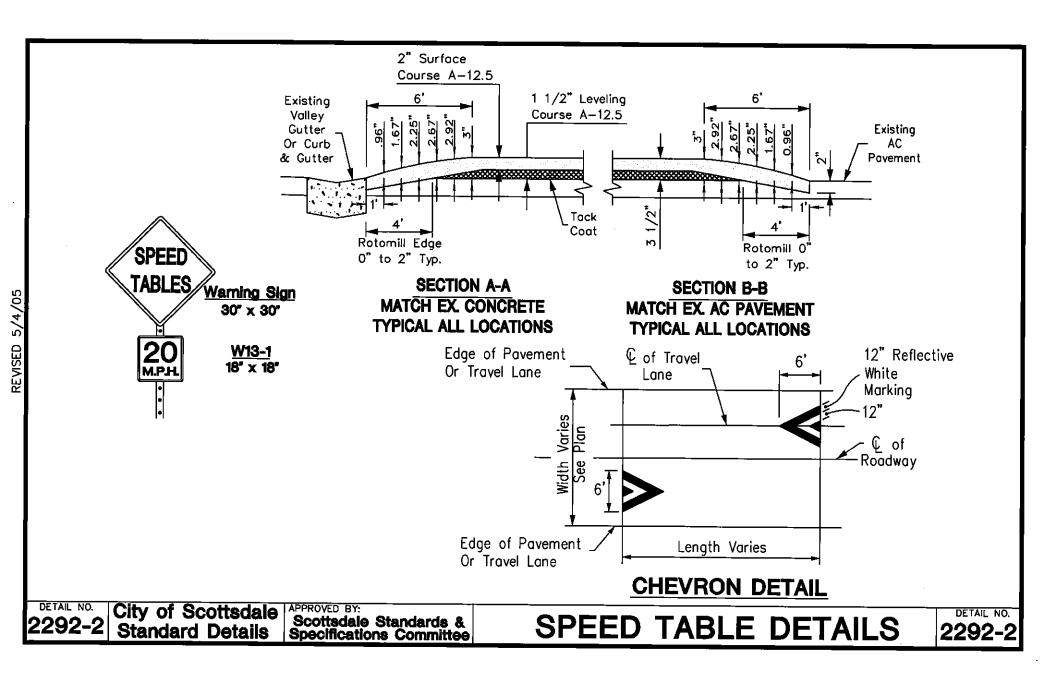
Front To Have A 6' Min.

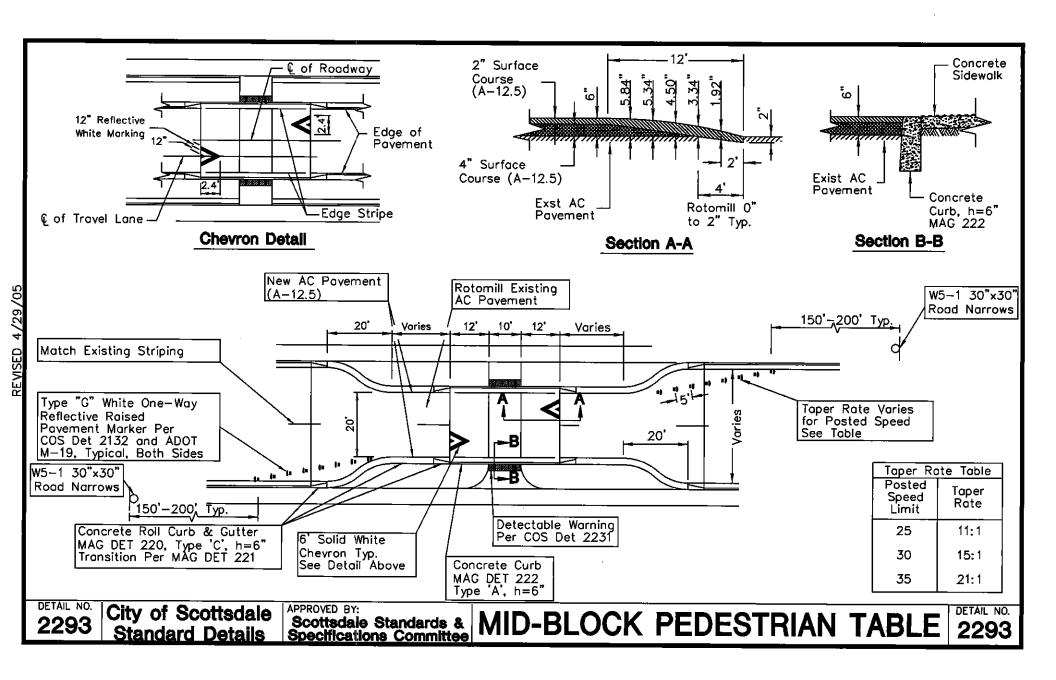
Clear Area.

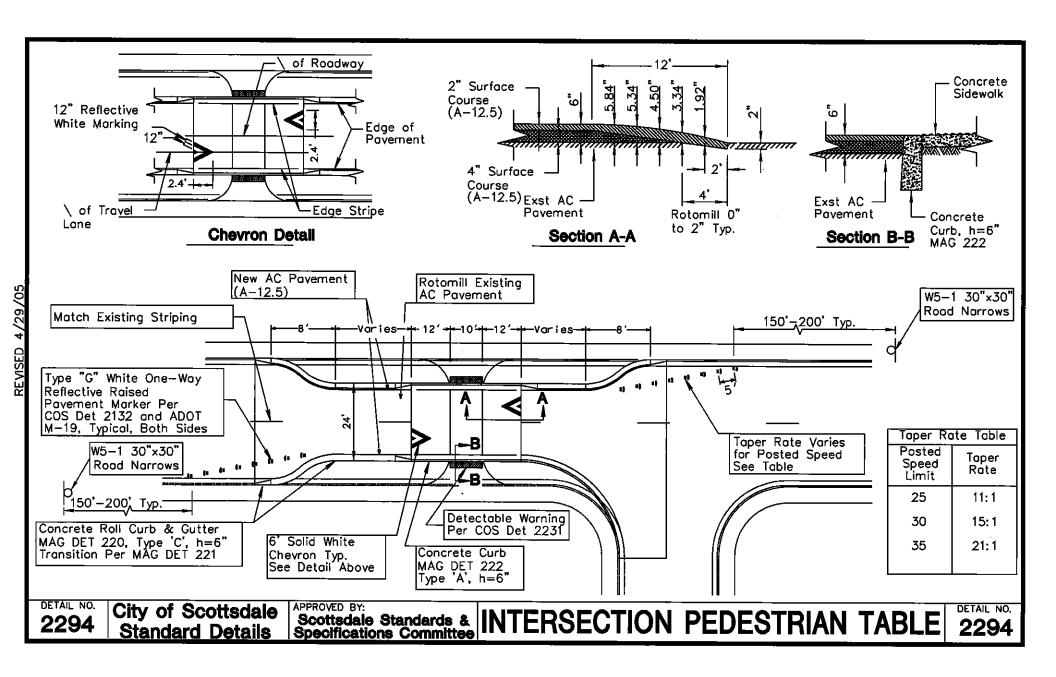
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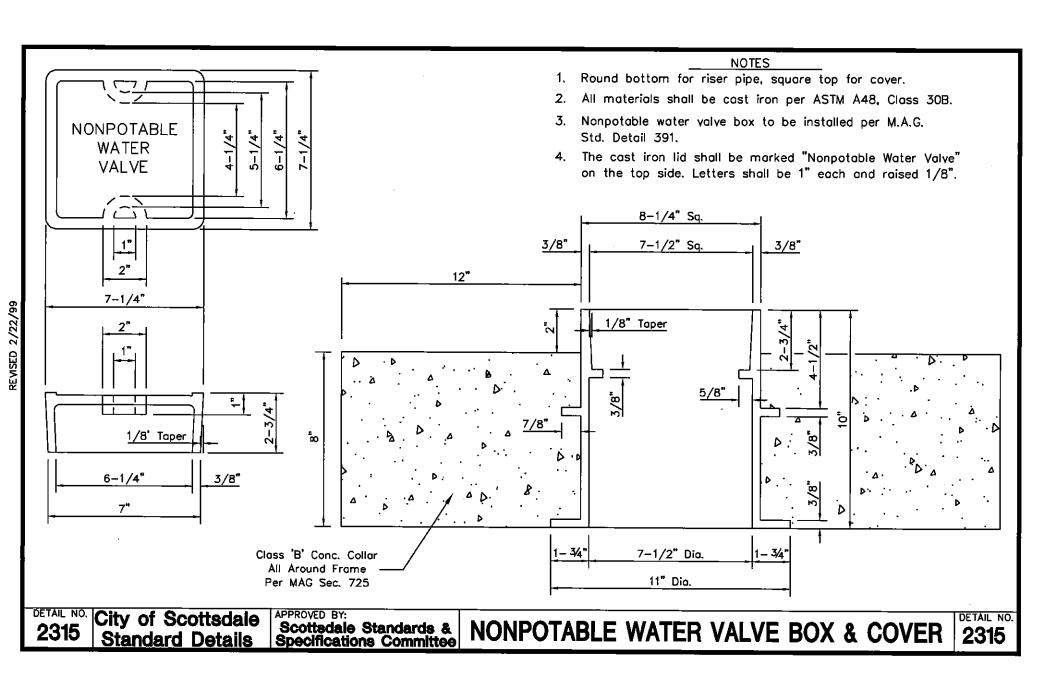
2285

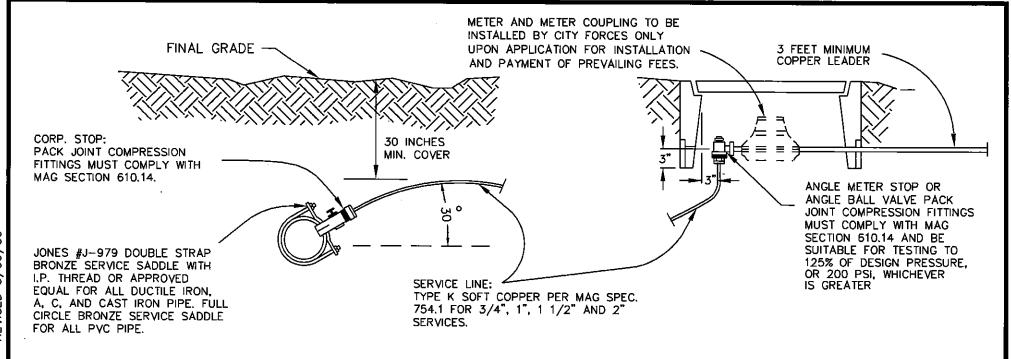












NOTE:

- 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, all water service connections shall also be installed. The contractor's 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 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. Authorized City of Scottsdale Water and Wastewater Operations personnel, or a City approved tapping contractor shall install the water service connections on existing mains.
- 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

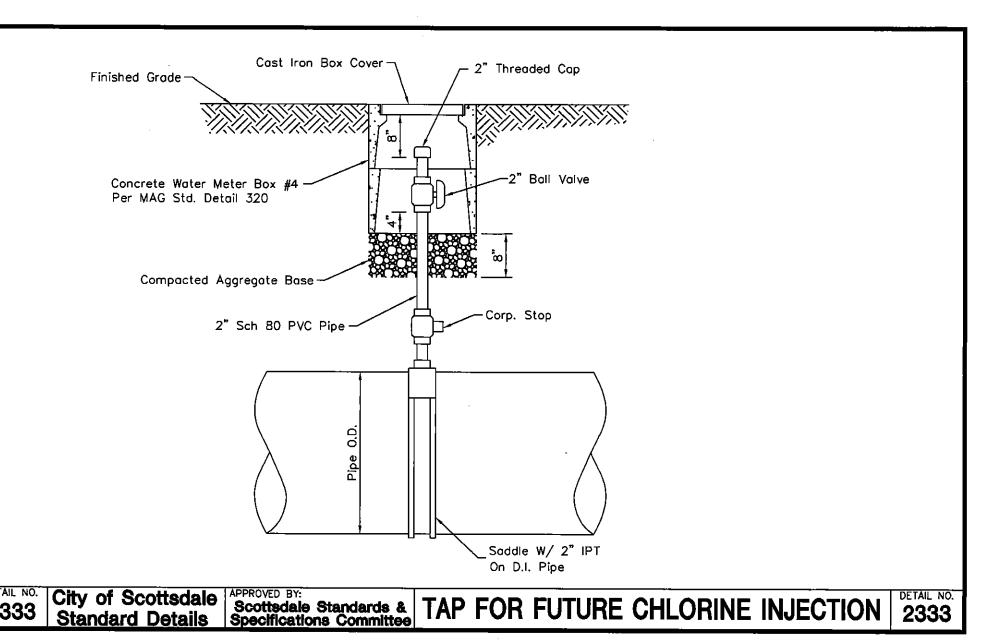
DETAIL NO. C

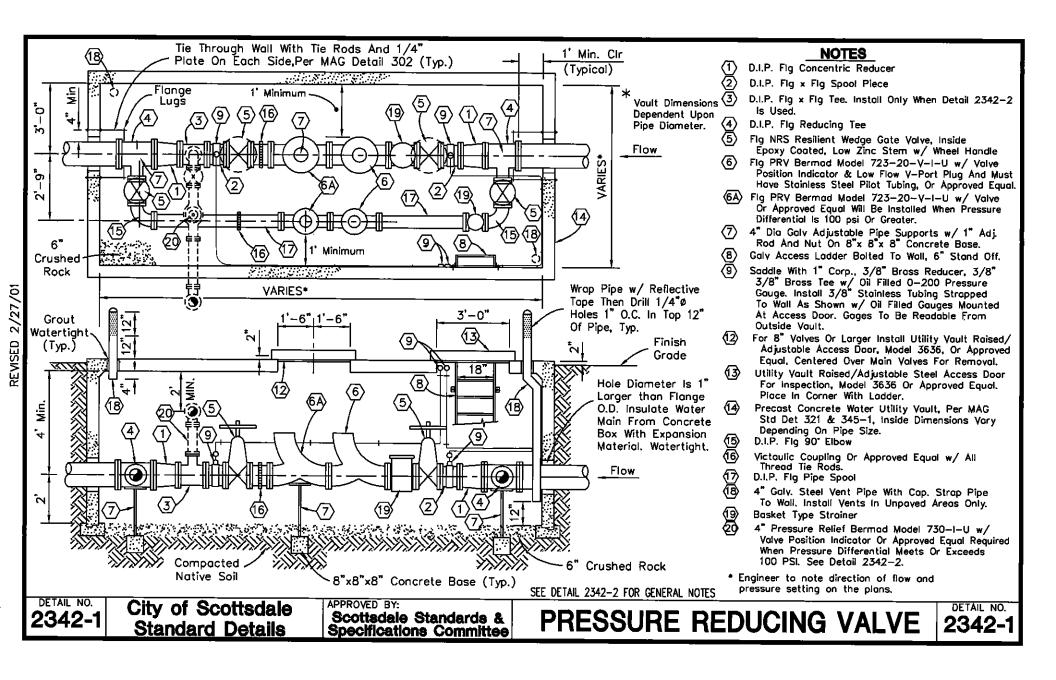
City of Scottsdale Standard Details APPROVED BY:

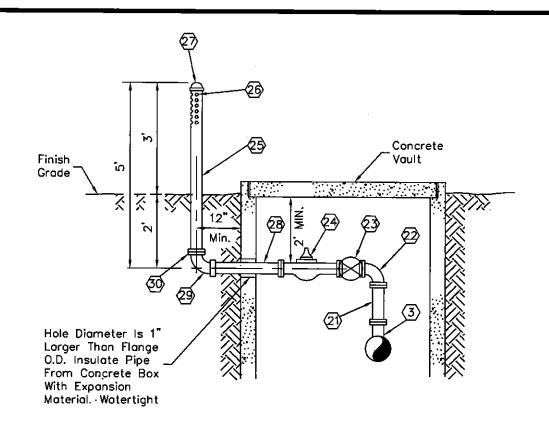
Scottsdale Standards & Specifications Committee

WATER SERVICE LINE CONNECTION

DETAIL NO.







PRESSURE RELIEF OUTLET ASSEMBLY DETAIL

SEE NOTE 20 DETAIL 2342-1

NOTES

- ③ Flg x Flg 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" Fig PRV Bermad Model 730-I-U Or Approved Equal, Epoxy Coated w/ Valve Position Indicator
- (25) 4" SCH. 40 Steel Pipe (Painted Desert Beige)
- 26 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.
- 3. 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. 2342-2

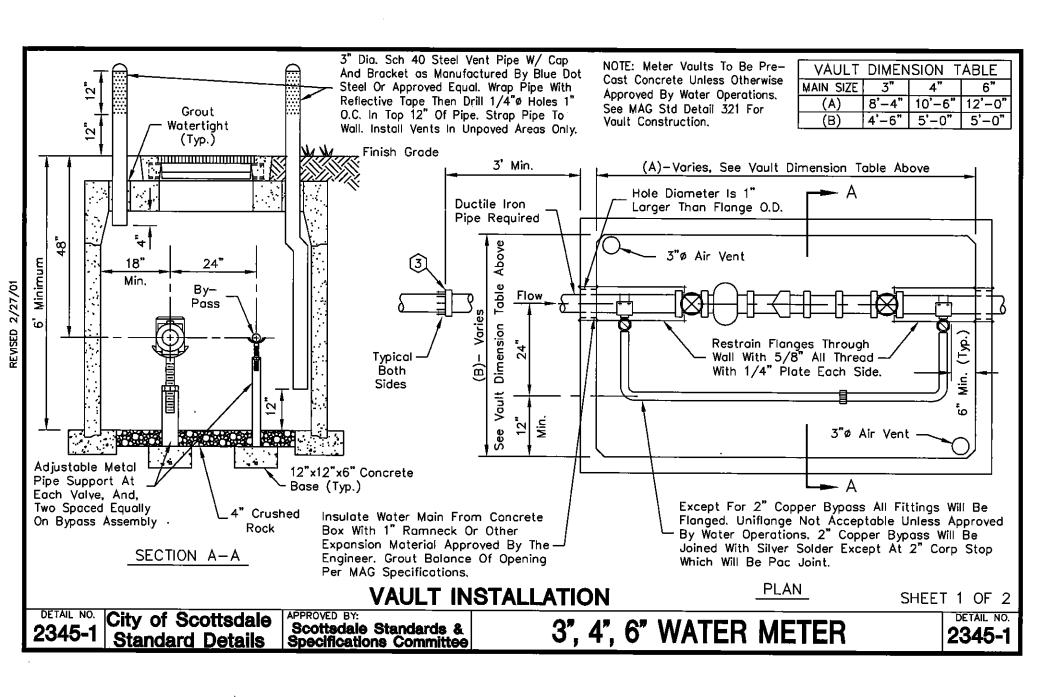
City of Scottsdale Standard Details

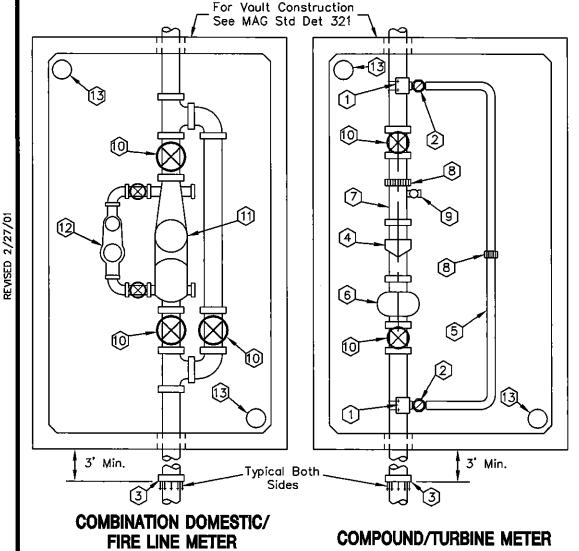
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Scottsdale Standards &
Specifications Committee

PRESSURE REDUCING VALVE

DETAIL NO.

2342-2





KEY NOTES

- ① Double Strap All Bronze Service Saddle, Or Flanged x Flanged Tee With Flanged X Flanged Valve For Sizes 3" Or Larger.
- (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.).
- Provide Victaulic Coupling Or Approved Equal For All Lines 3" Or Larger.
- 2 Threaded Outlet And Boll Valve. Not Needed If Vertical Test Valve Is Provided On Meter.
- 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) 2" Turbine Meter: Sensus "W-160" Or Hersey "MHR"
 Or Neptune Trident Turbine.
- (13) 3"ø Air Vent, See Sheet 1 Of 2.

NOTES

- 1. For Larger Meters Special Vault Design Is Required.
- 2. 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.
- Meter To Be Provided By City Upon Payment Of Fees.

SHEET 2 OF 2

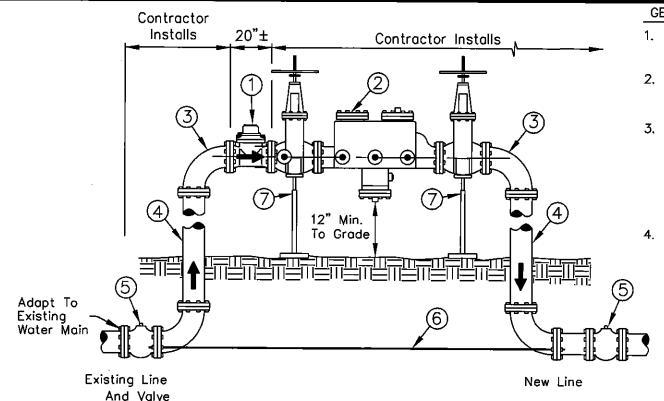
DETAIL NO. 2345-2

City of Scottsdale Standard Details APPROVED BY:

Scottsdale Standards & Specifications Committee

3, 4", 6" WATER METER

DETAIL NO. 2345-2



- 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

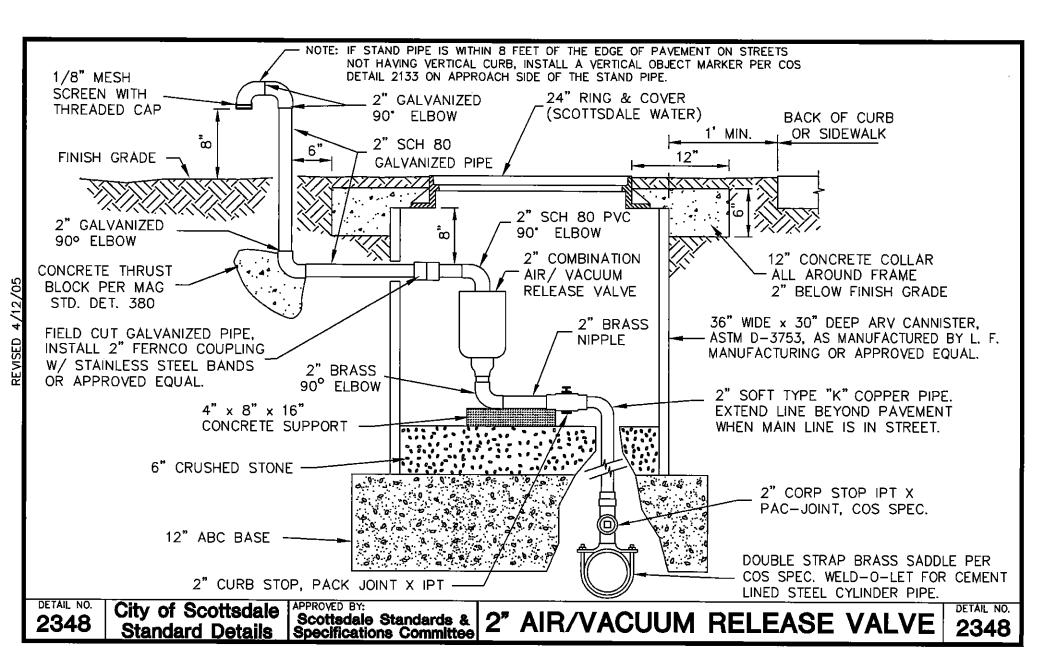
- (1) 3" Turbine Construction Meter With 3" Flanges, Supplied By City.
- 2 3" Approved Reduced Pressure Principle Backflow Prevention Assembly, Supplied By Contractor.
- 3" Flanged Ductile Iron 90" Ell, Supplied By Contractor.
- 4 3" Ductile Iron Spool,

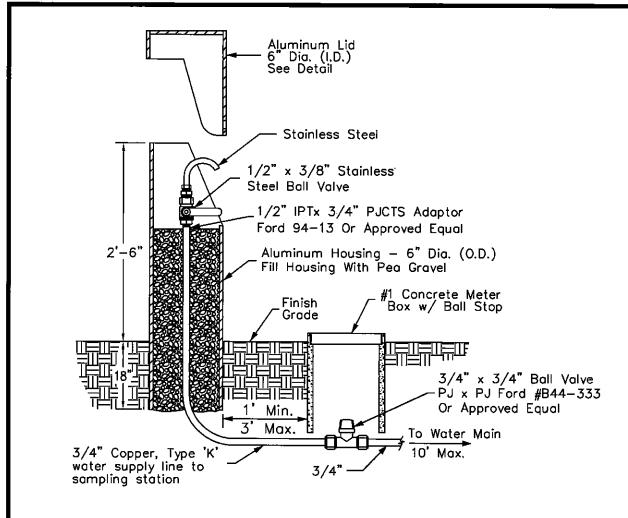
- S Line valves shall be within a 20' maximum distance upstream and downstream of flow meter or as approved by COS, and shall remain in-place after removal of temporary meter.
- 6 3/4" ø zinc coated threaded rod.
- 🕏 Adjustable Metal Pipe Support (Required).

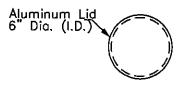
2346 City of Scottsdale Standard Details

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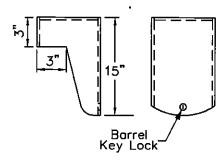
TEMPORARY CONSTRUCTION METER







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.

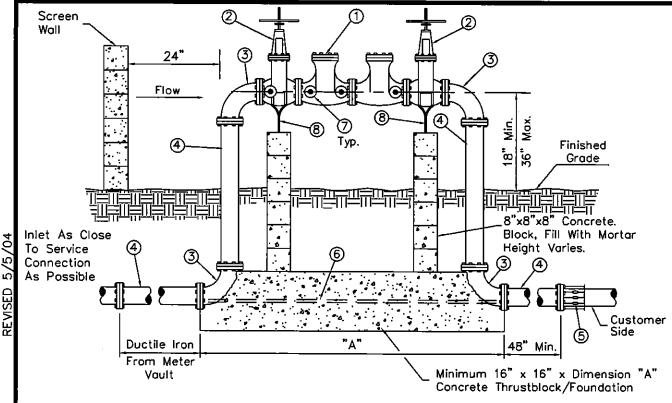
2349

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. 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)
- Adjustable metal pipe supports and concrete block supports with 1" adjusting rod and nut on assemblies 4" and larger. Install above grade.

GENERAL NOTES

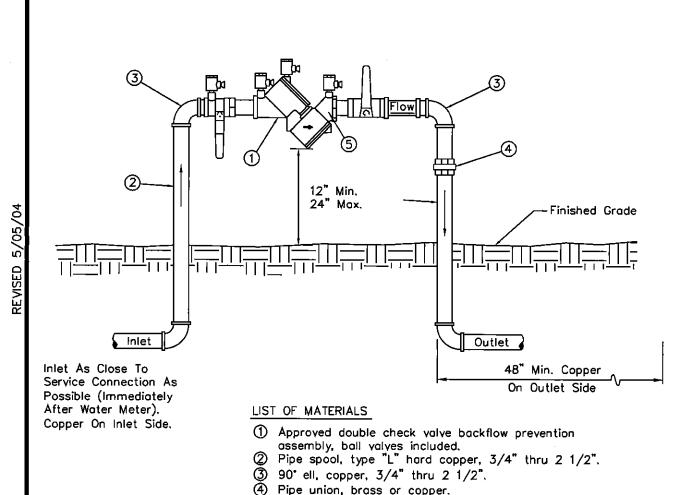
- Backflow assemblies must be tested by a certified tester that is recognized by the City of Scottsdale.
- Backflow preventers shall be painted light tan or a color to match the building. Do not paint the name plate or any brass parts on the assembly.
- For backflow preventers requiring guard posts see Detail 2356. Backflow preventers enclosed by screening shall maintain a 24 inch clear ance around the assembly.
- 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



- Backflow assemblies must be tested by a certified tester that is recognized by the City of Scottsdale.
- Copper fittings shall be connected with lead free solder joints.
- Finished grade underneath the backflow preventer shall be at 95% compaction.
- 4. All nipples to be copper or brass.
- Piping under the City right of way must be type "K" copper.
- 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.
- 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. **2352**

City of Scottsdale Standard Details

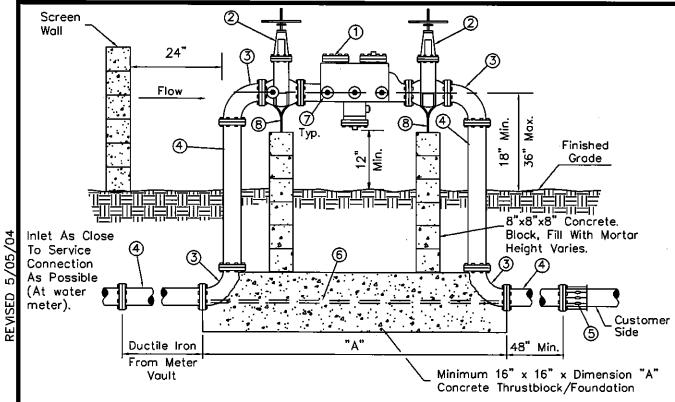
APPROVED BY:

Scottsdale Standards & Specifications Committee

with caps installed. (4 required)

Test cocks with bross plugs or adaptors

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.
- 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, 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.
- 7 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.
- 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

DETAIL NO.

- 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.
- 4. 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.

APPROVED BY:

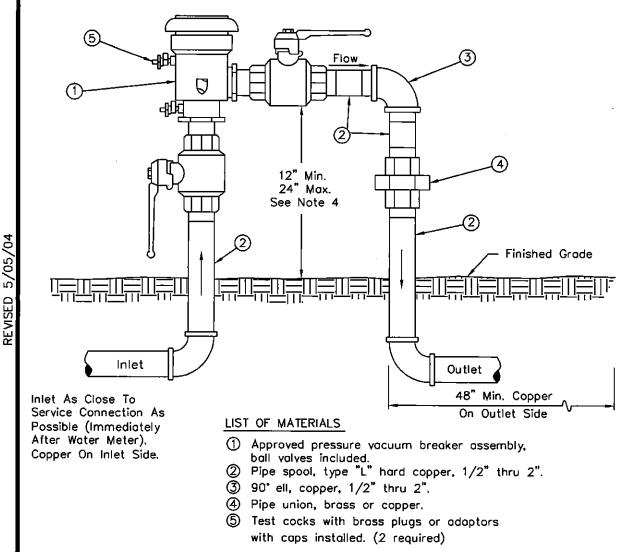
Scottsdale Standards & Specifications Committee

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

DETÁIL NO. 2354

REVISED 5/05/04

City of Scottsdale Standard Details

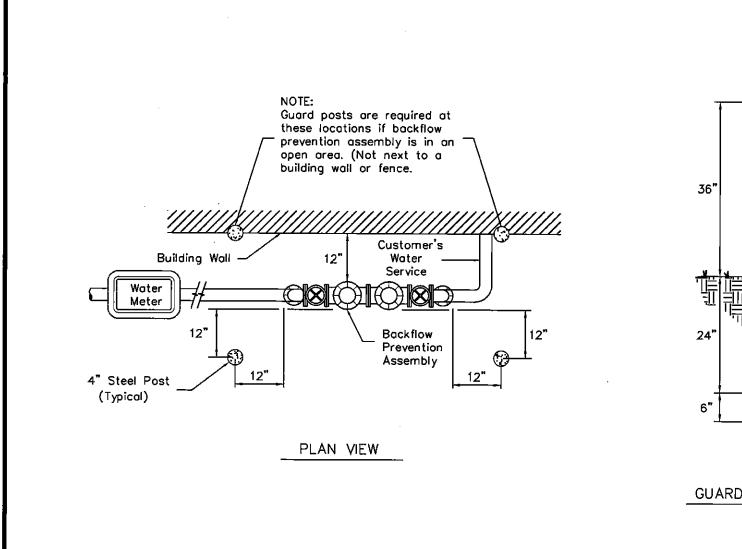


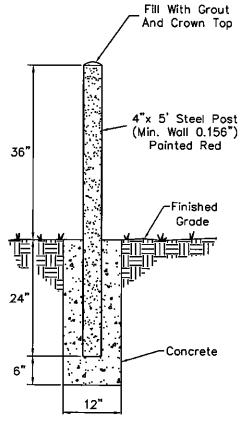
- Backflow assemblies must be tested by a certified tester that is recognized by the City of Scottsdale,
- Pressure vacuum breakers must be installed at least 12" above all downstream piping.
- If this distance exceeds 24 inches, a reduced pressure principle backflow prevention assembly must be utilized. See Detail 2354.
- Copper fittings shall be connected with lead free solder joints.
- 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.

DETAIL NO. 2355 City of Scottsdale Standard Details

APPROVED BY:
Scottsdale Standards &
Specifications Committee

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





GUARD POST SECTION

DETAIL NO. **2356**

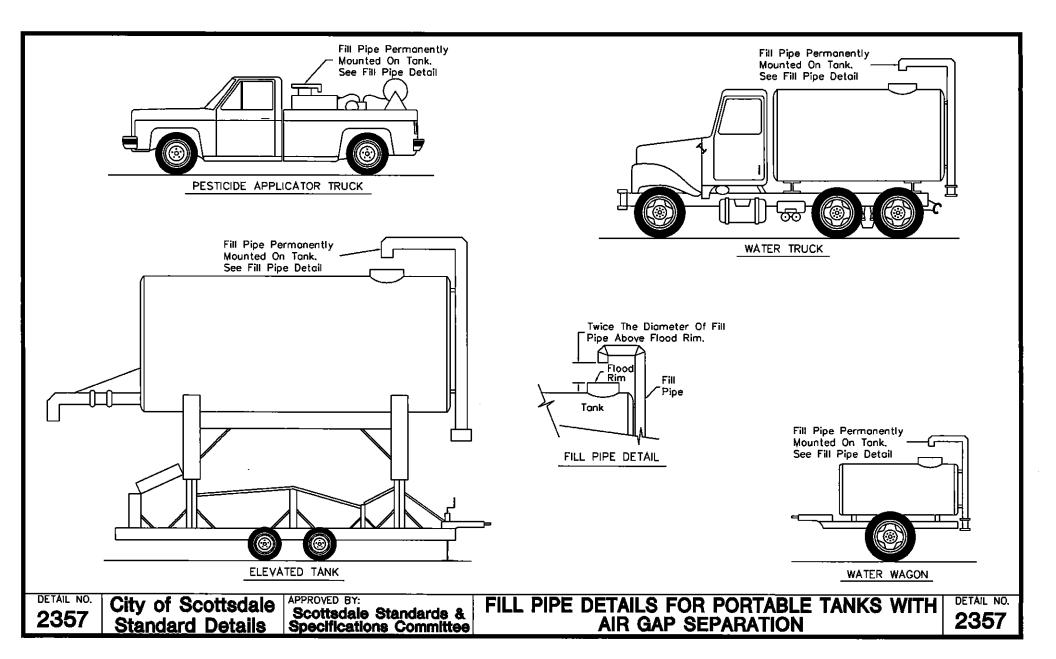
City of Scottsdale Standard Details

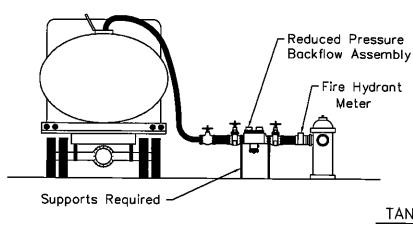
APPROVED BY:

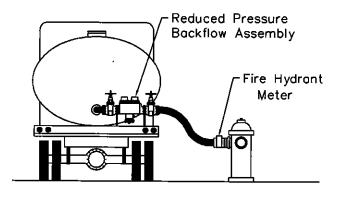
Scottsdale Standards & Specifications Committee

GUARD POSTS FOR BACKFLOW PREVENTION ASSEMBLIES

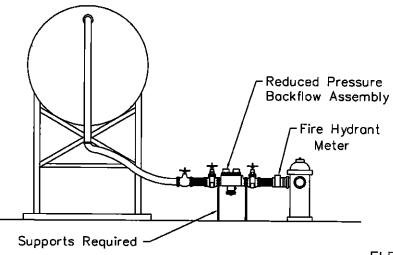
DETAIL NO.

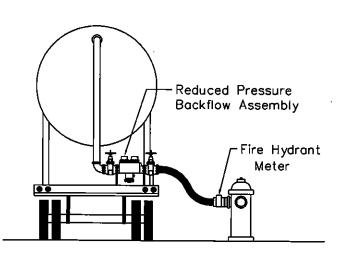






TANK TRUCKS





ELEVATED TANKS

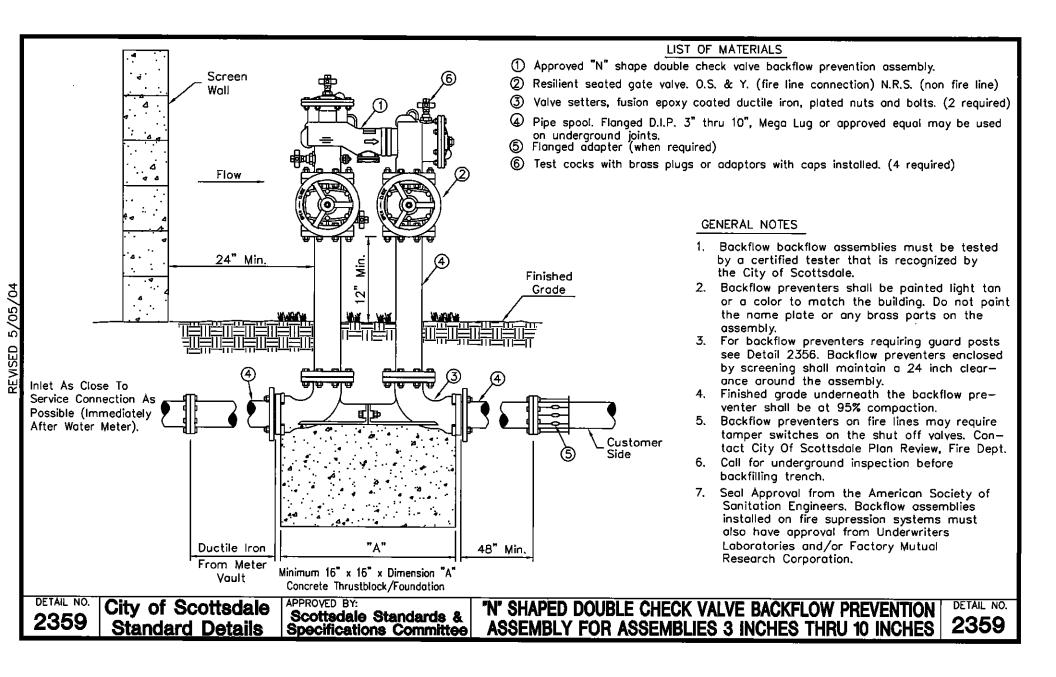
DETAIL NO. **2358**

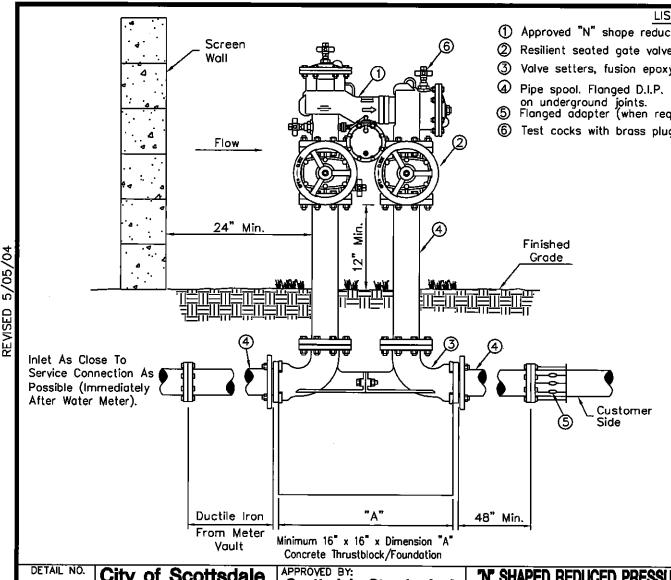
City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

BACKFLOW PREVENTION METHOD FOR PORTABLE TANKS
WITH NO AIR GAP SEPARATION





LIST OF MATERIALS

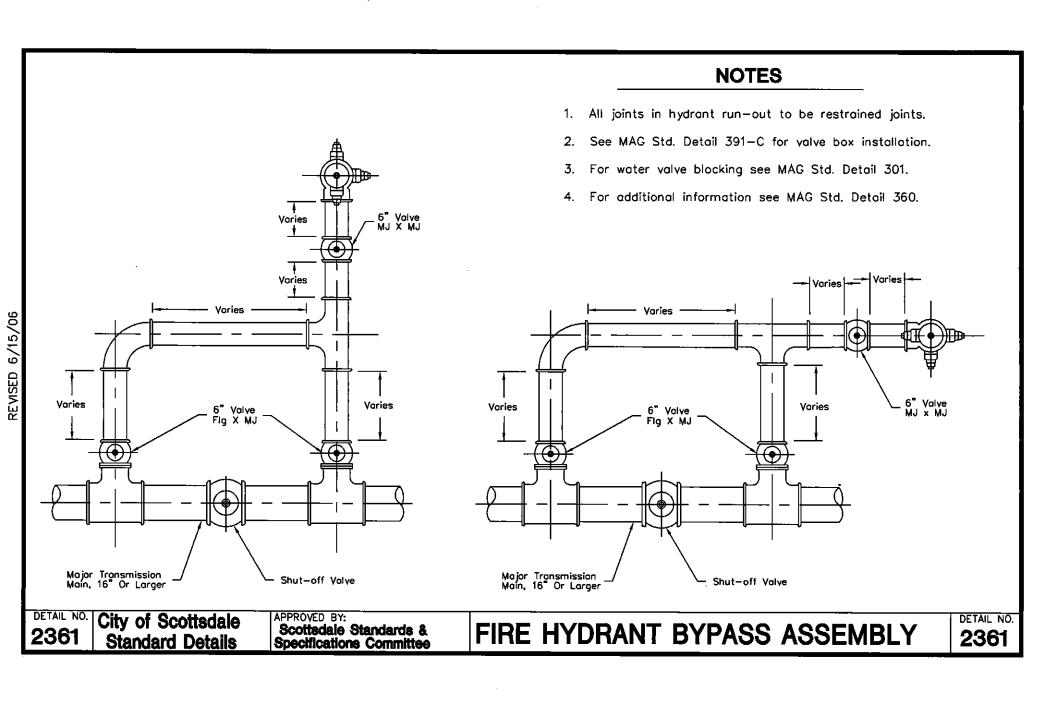
- ① Approved "N" shape reduced pressure principle backflow prevention assembly.
- Resilient seated gate valve, O.S. & Y. (fire line connection) N.R.S. (non fire line)
- Valve setters, fusion epoxy coated ductile iron, plated nuts and bolts. (2 required)
- Pipe spool. Flanged D.I.P. 3" thru 10", Mega Lug or approved equal may be used
- Flanged adapter (when required)
- (6) Test cocks with brass plugs or adaptors with caps installed. (4 required)

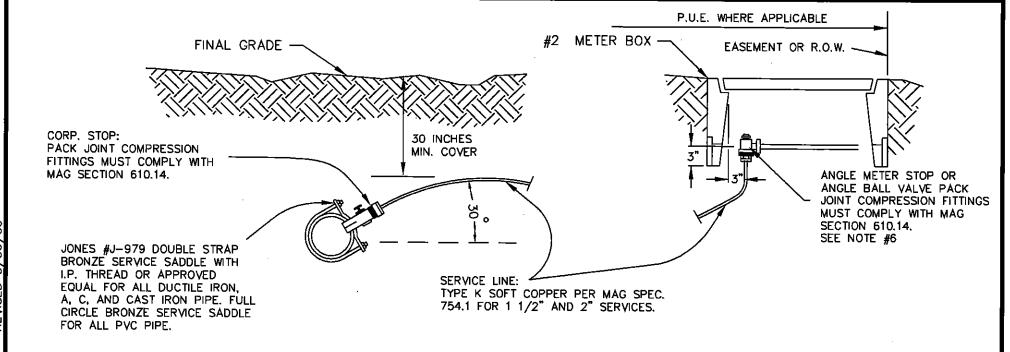
GENERAL NOTES

- 1. Backflow backflow assemblies must be tested by a certified tester that is recognized by the City of Scottsdale.
- 2. 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.
- 3. For backflow preventers requiring guard posts see Detail 2356. Backflow preventers enclosed by screening shall maintain a 24 inch clearance 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.
- 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.

City of Scottsdale Standard Details

Scottsdale Standards & Specifications Committee "N" SHAPED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3 INCHES THRU 10 INCHES 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, all fire line connections shall also be installed. The contractor's 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 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. Authorized City of Scottsdale Water and Wastewater Operations personnel or a City approved tapping contractor shall install the water service connections on existing mains.
- 6. A 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. 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

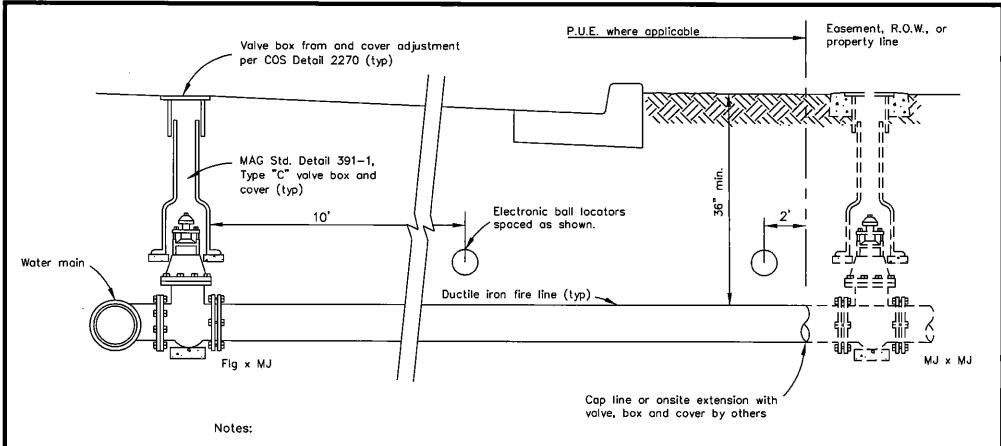
APPROVED BY:

Scottsdale Standards & Specifications Committee

1 1/2"-2" FIRE LINE CONNECTION

DETAIL NO.

2362-1



- 1. All water lines within the right-of-way or public utility easement shall be polywrapped ductile iron pipe.
- 2. Joint restraint shall conform to the requirements of MAG Std. Detail 303.
- 3. When a water main is located behind the curb at the near side of the street, the gate valve by others is not required when the fire line is extended onto private property.

DETAIL NO.

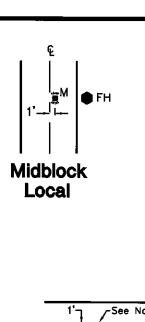
City of Scottsdale Standard Details

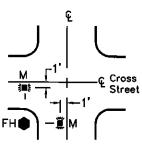
APPROVED BY: Scottedale Standards & Specifications Committee

3'AND LARGER FIRE LINE CONNECTION

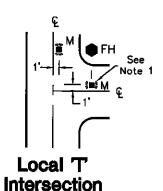
DÉTÁIL NO.

2362-2



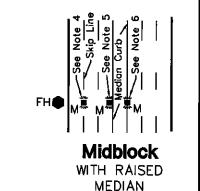


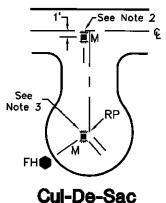
Local Cross Intersection



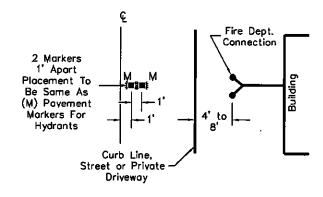


FH





Street



Fire Dept. Connection



NOTES:

- 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)
- Pavement Markers Shall Not Be Placed Within One Foot of A Paint Line (Center to Center).

DETAIL NO. **2363**

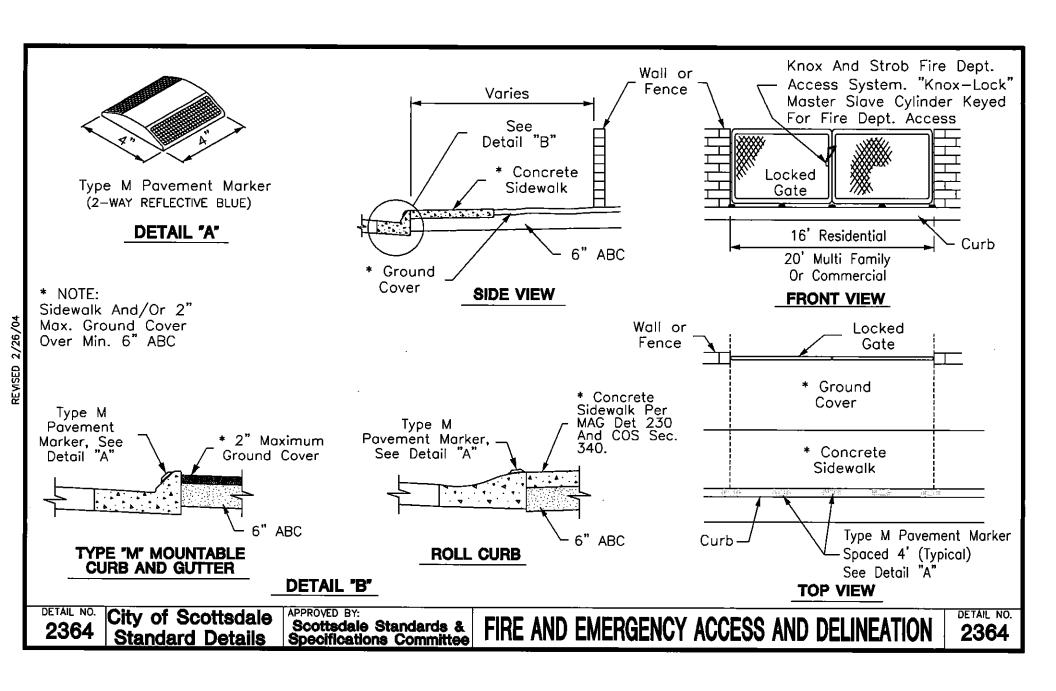
City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

PAVEMENT MARKERS FOR FIRE HYDRANTS

DETAIL NO.



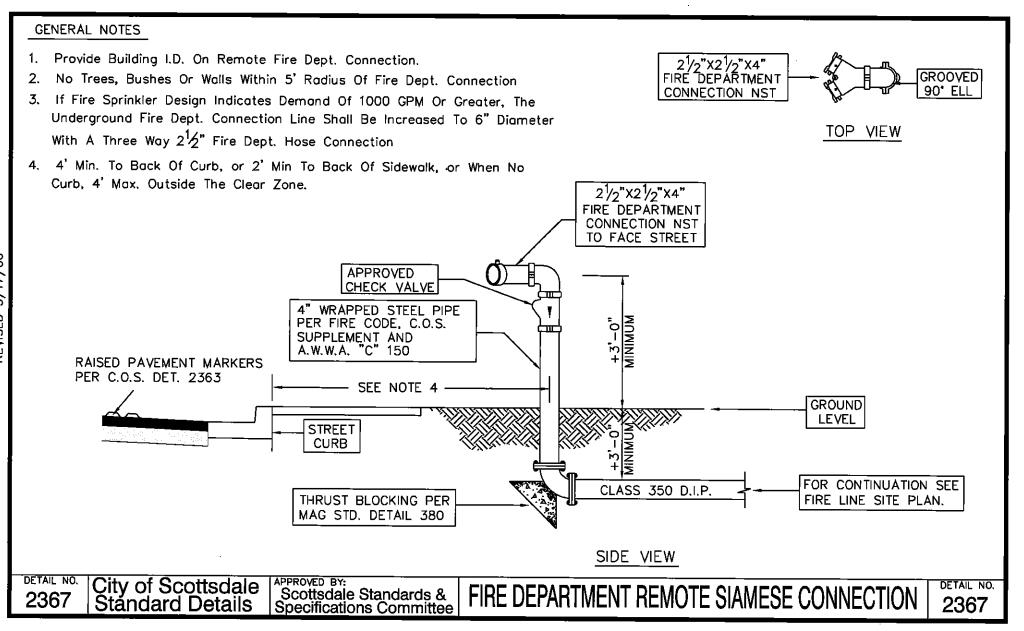
NOTES:

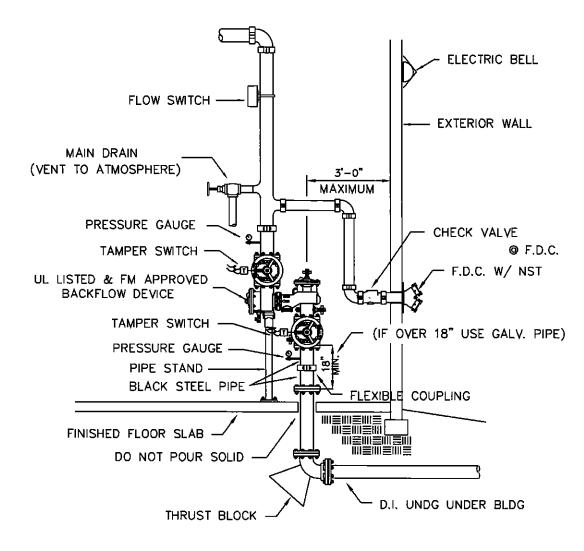
- 1. At the beginning and end of the fire lane, the sign shall have a single headed arrow pointing in the direction the regulation is in effect. The intermediate signs shall have double headed arrows pointing in both directions.
- 2. The maximum spacing of the signs shall be 100', contingent upon Traffic 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 Il (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.

City of Scottsdale Standard Details

Scottsdale Standards & Specifications Committee

FIRE LANE SIGN





- 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.

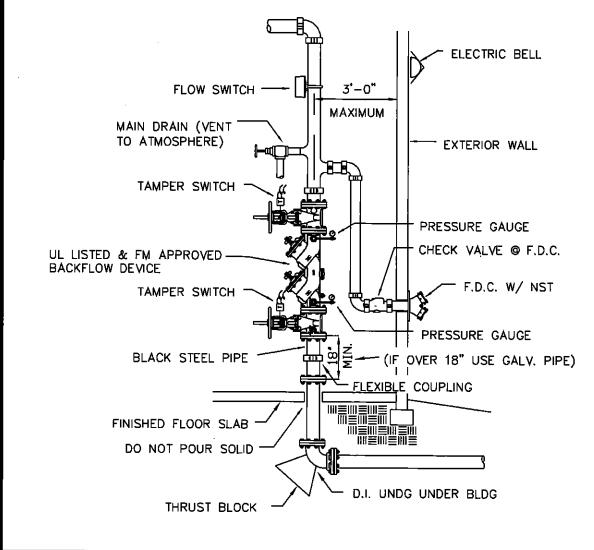
City of Scottsdale Standard Details

APPROVED BY:

Scottedale 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.
- 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)

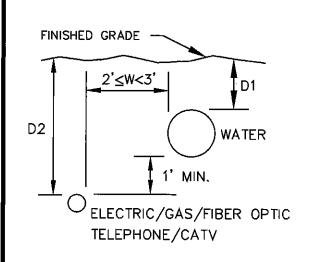
DETAIL NO. 2369

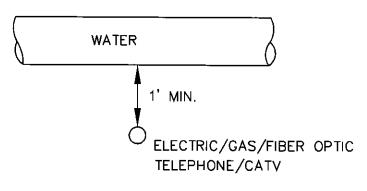
City of Scottsdale

APPROVED BY:

Standard Details Specifications Committee FIRE SPRINKLER RISER DETAIL - VERTICAL INSTALLATION #2

DETÁIL NO.





LEGEND

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

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

D2 = Minimum Cover

W = Horizontal Separation

CROSSING

NOTES

- 1. Electric separation requirements are for primary electric conductors only. For service conductors see plans.
- 2. 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.

D2

W ≥ 3'

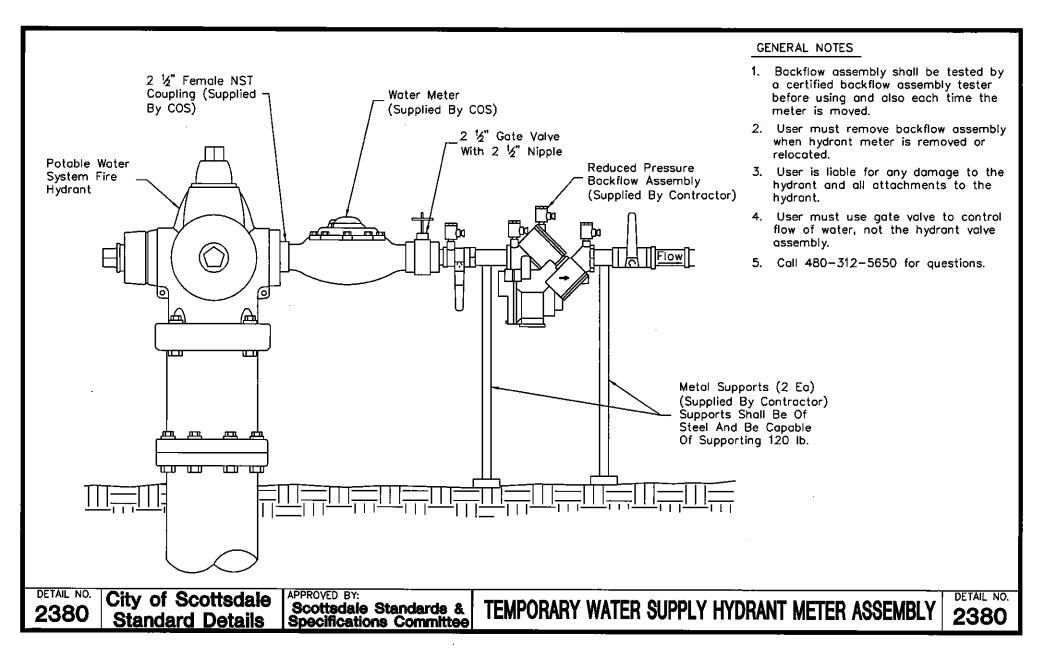
NO SEPARATION
REQUIREMENT

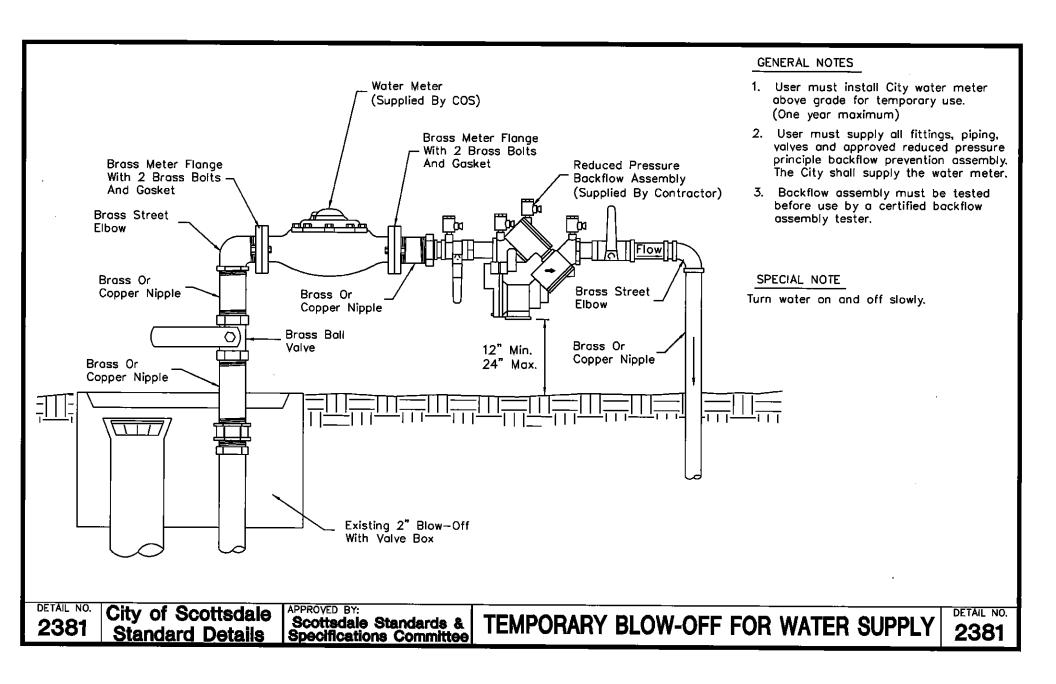
ELECTRIC/GAS/FIBER OPTIC
TELEPHONE/CATV

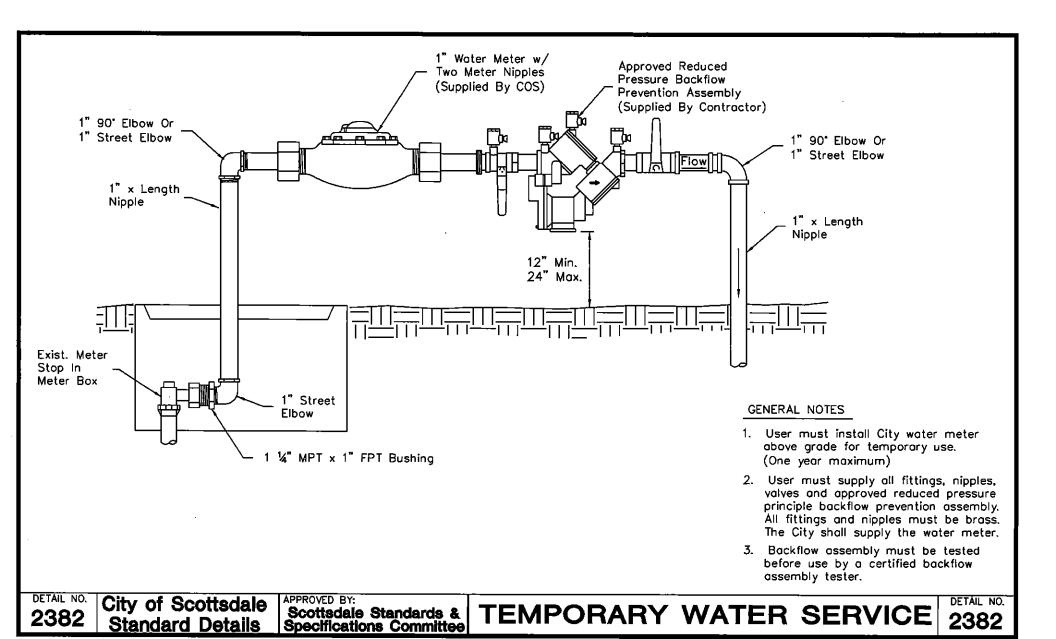
2372 City of Scottsdale Standard Details

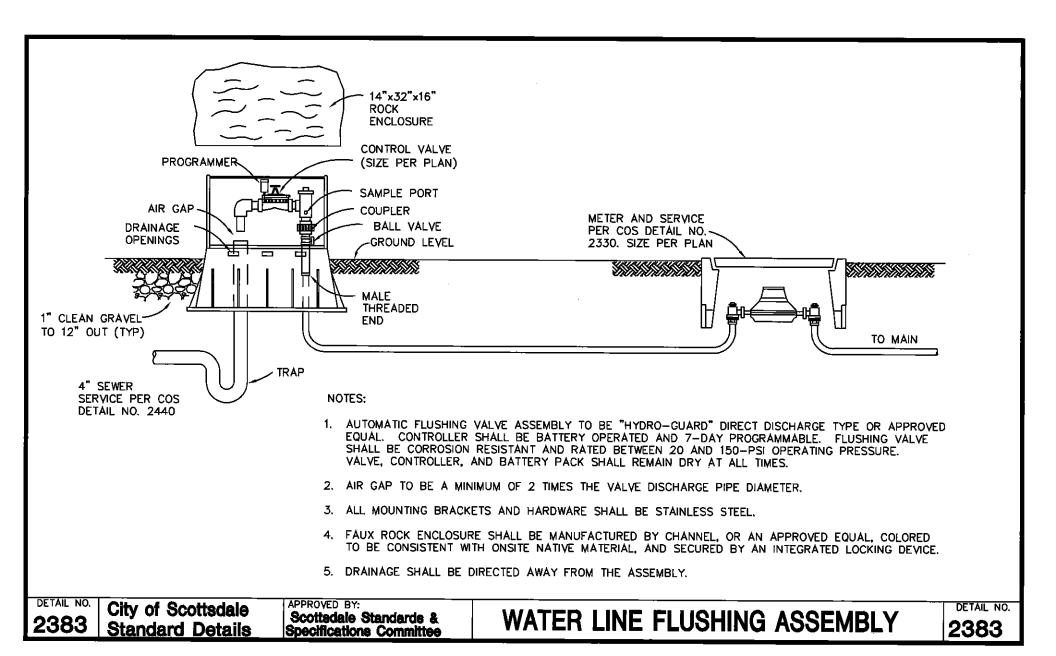
APPROVED BY:
Scottsdale Standards &
Specifications Committee

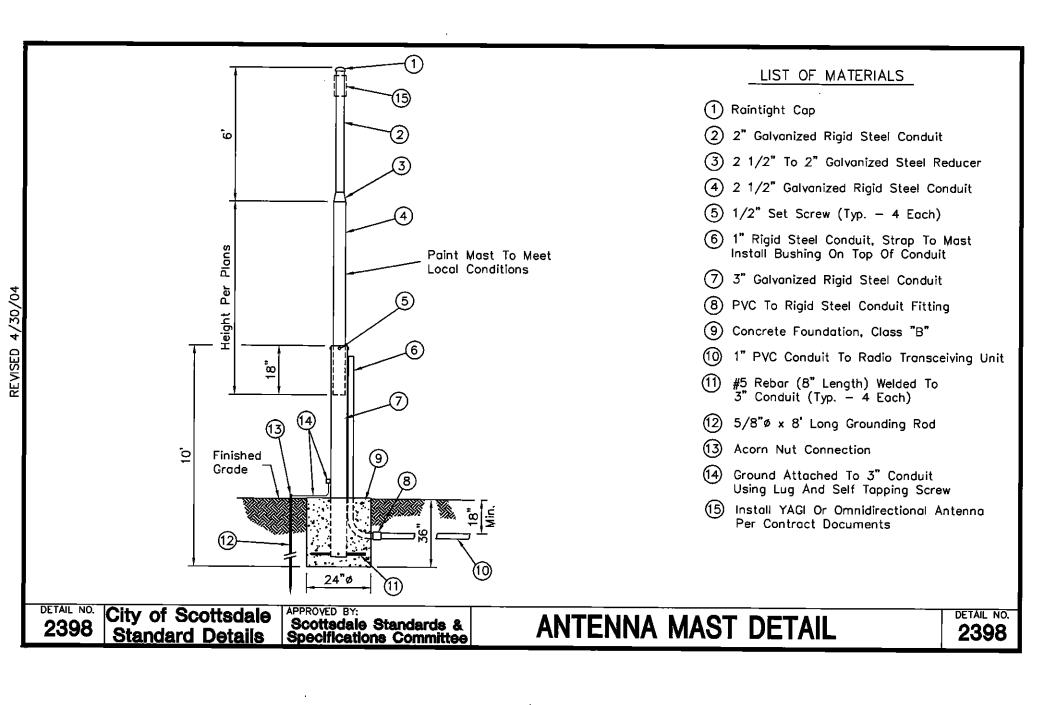
MINIMUM UTILITY SEPARATION REQUIREMENTS

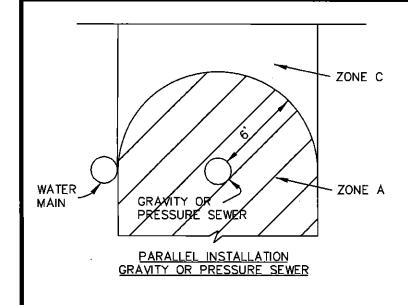


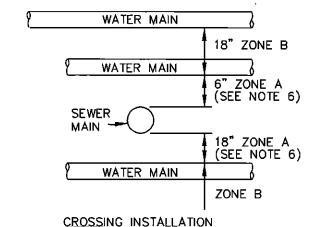












Notes:

- SEPARATION DISTANCES AND/OR EXTRA PROTECTION SHALL BE REQUIRED TO PROTECT WATER MAINS FROM CONTAMINATION BY SANITARY SEWER MAINS.
- 2. SEE CROSS SECTION DETAIL FOR LIMITS OF SEPARATION/EXTRA PROTECTION, ALL DISTANCES ARE MEASURED PERPENDICULARLY FROM THE OUTSIDE OF THE PIPES.
 - A. NO WATER MAINS SHALL FALL WITHIN ZONE A.
 - B. EXTRA PROTECTION WILL BE REQUIRED WHEN THE WATER MAIN FALLS WITHIN ZONE B. EXTRA PROTECTION SHALL CONSIST OF CONSTRUCTING SANITARY SEWER MAINS WITH MECHANICAL JOINT OR RESTRAINED JOINT DUCTILE IRON PIPE FROM MANHOLE TO MANHOLE. DUCTILE IRON PIPE SHALL COMPLY WITH THE REQUIREMENTS FOR SEWER INSTALLATION. IN A CROSSING, THE NUMBER OF JOINTS SHALL BE HELD TO A MINIMUM WITH ONE FULL JOINT OF PIPE CENTERED OVER/UNDER THE OTHER. AN ALTERNATIVE PROTECTION MAY CONSIST OF ENCASING EXISTING SEWER MAINS IN REINFORCED CONCRETE PER MAG STD. DETAIL 404-2.
 - C. NO ADDITIONAL PROTECTION WILL BE REQUIRED OUTSIDE OF ZONES A AND B.
 - D. WATER MAINS PERMITTED IN ZONE C ONLY WITH WRITTEN PERMISSION FROM THE WATER RESOURCES DEPARTMENT.
- SEPARATION REQUIREMENTS FOR 4" OR 6" INDIVIDUAL HOUSE SERVICE CONNECTIONS SHALL COMPLY WITH THE PLUMBING CODES ADOPTED BY THE CITY.
- 4. RECLAMED WATER SHALL BE CONSIDERED AS POTABLE WATER WHEN PLACED NEXT TO A SANITARY SEWER AND CONSIDERED A PRESSURE OR FORCE SANITARY SEWER MAIN, WHEN PLACED NEXT TO A POTABLE WATER MAIN.
- 5. CLASS 'C' CONCRETE AS PER SECTION 725.
- 6. ZONE À IS 24" WHERE WATER MAINS CROSS PRESSURE SEWER MAINS.
- 7. THIS DRAWING REVISES MAG STD. DETAIL 401-1 ONLY. MAG STD. DETAIL 404-2 REMAINS INTACT.

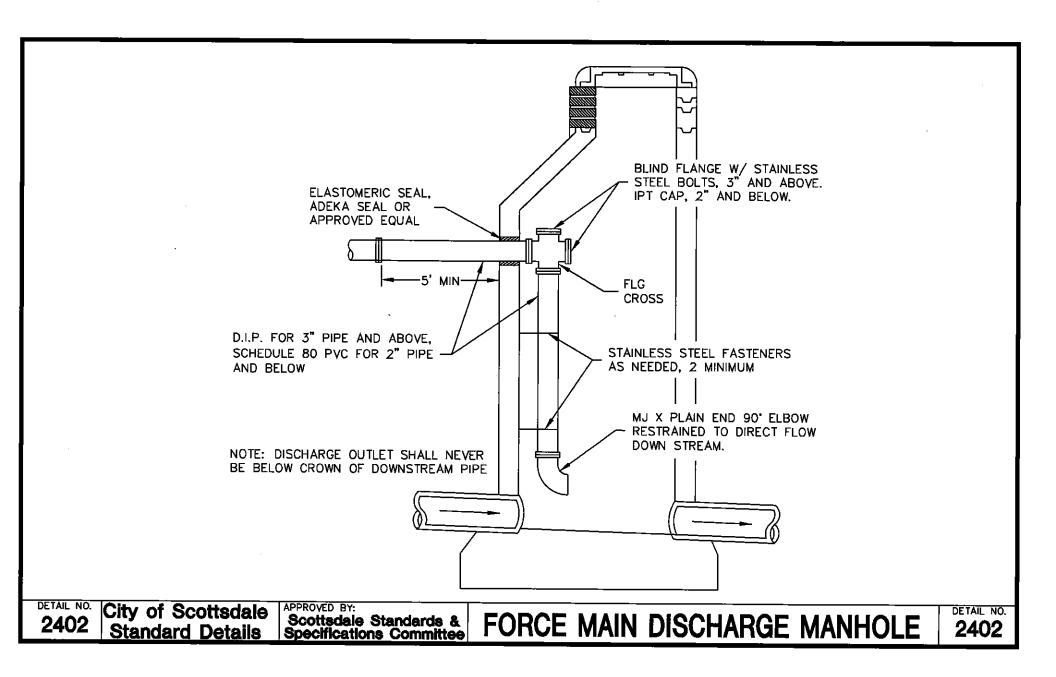
DETAIL NO. **2401**

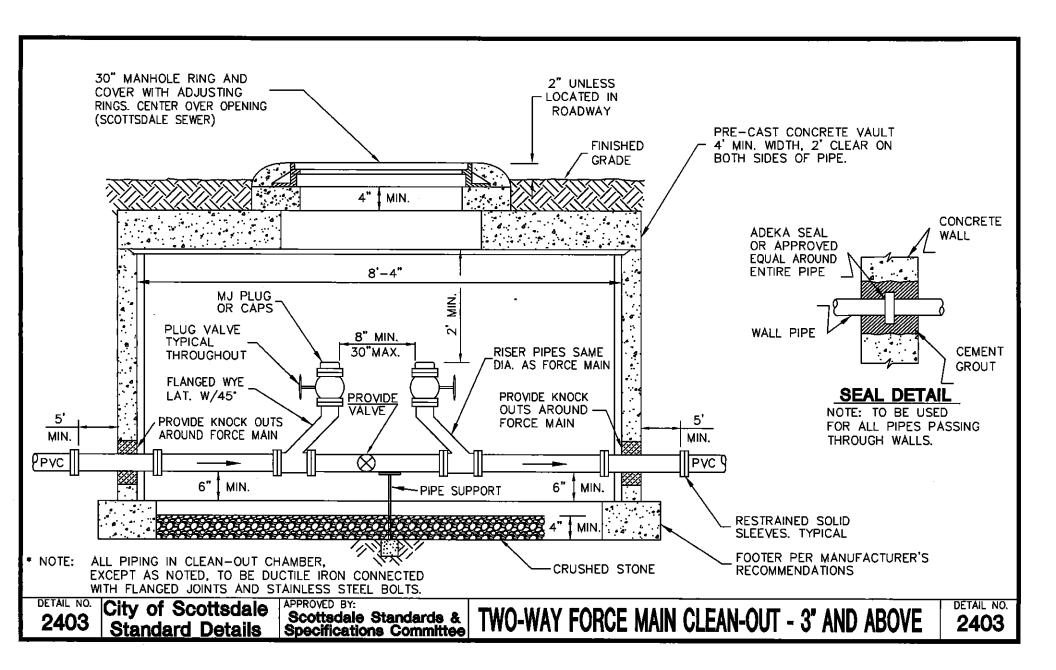
City of Scottsdale Standard Details APPROVED BY:

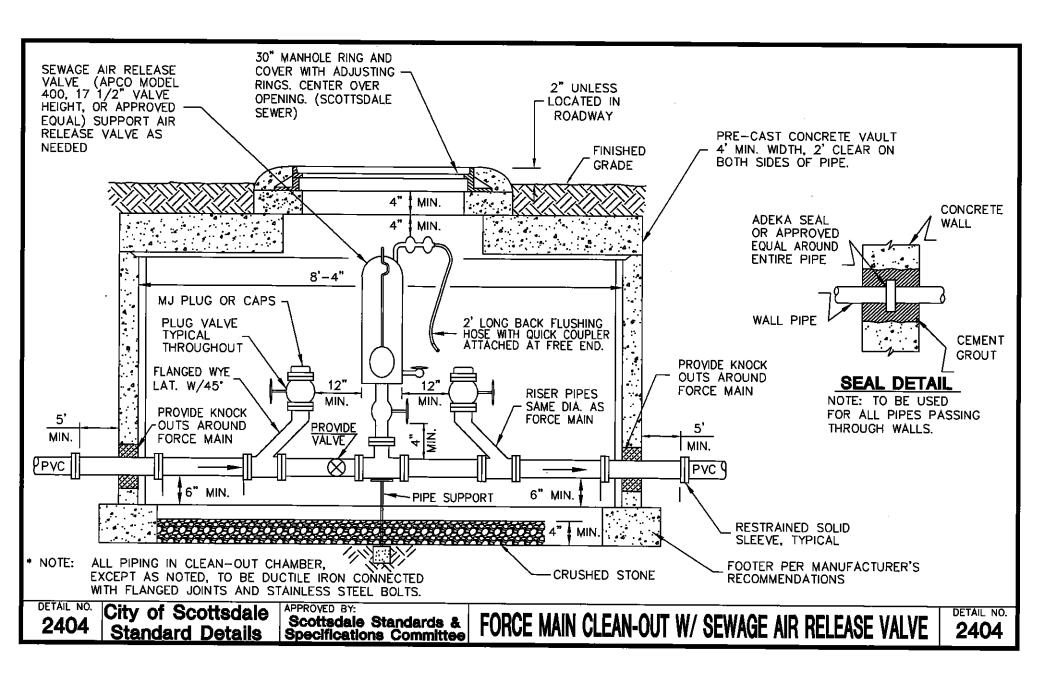
Scottsdale Standards & Specifications Committee

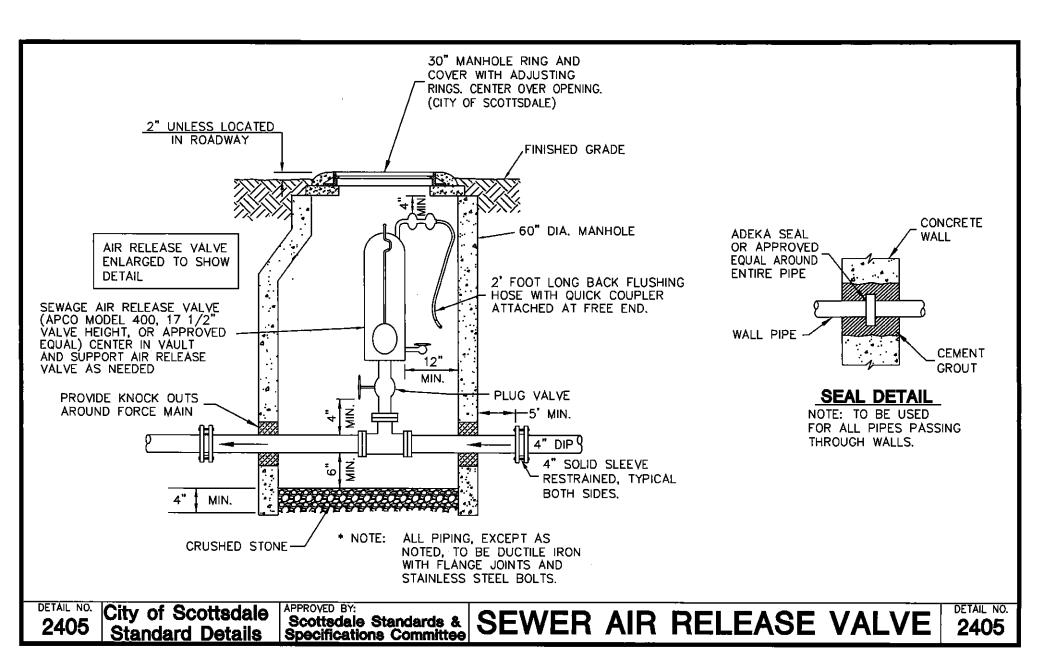
WATER & SANITARY SEWER SEPARATION/PROTECTION

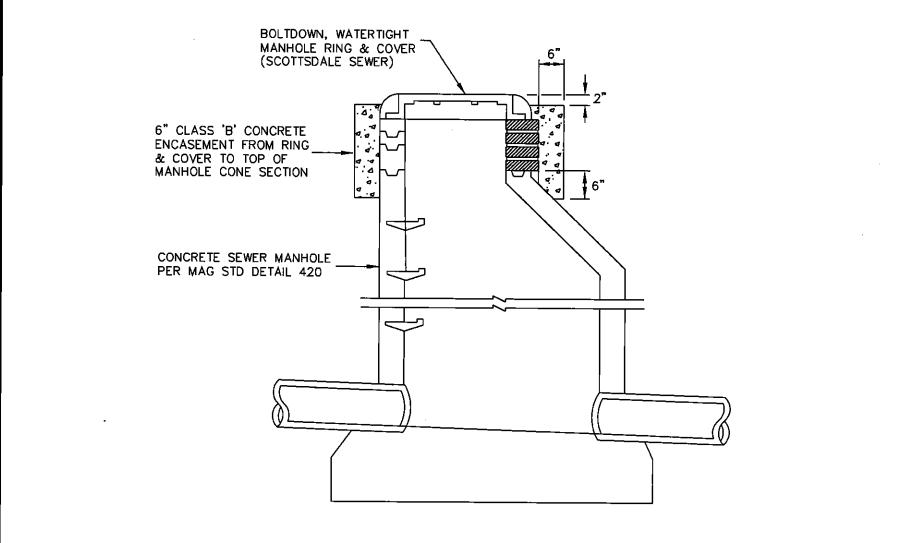
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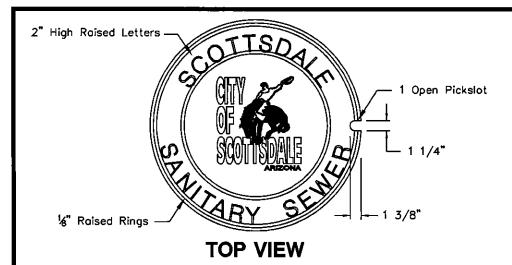


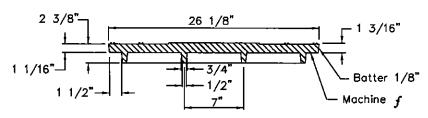
DETAIL NO.

City of Scottsdale Standard Details

APPROVED BY:
Scottsdale Standards &
Specifications Committee

WATER TIGHT CONCRETE SEWER MANHOLE





SECTION OF COVER

24" MANHOLE COVER

Open Pickslot 1/4" Raised Rings **TOP VIEW** 31 1/2" 1 1/2" Batter 1/8" Machine f

SECTION OF COVER

30' MANHOLE COVER

2" High Roised Letters

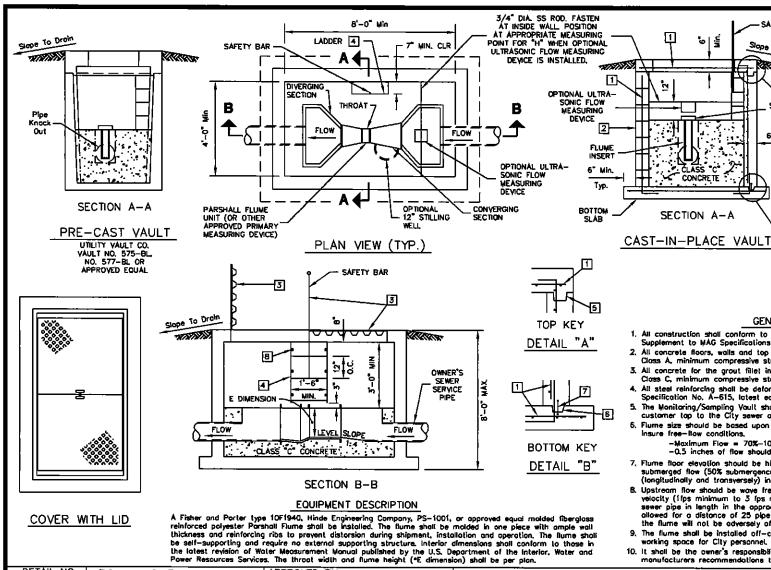
NOTES

- 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.
- 3. 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

Scottsdale Standards & Specifications Committee

SANITARY SEWER MANHOLE COVER



NOTES:

- SAFETY BAR

SEE

DETAIL "A"

SUPPORT

BRACE

6° Min.

Тур.

Stope To Drain

- 1 Reinforced steel and clearance as approved by the engineer,
- 2 Block mosonry may be used in lieu of CIP walls. 8" block mosonry, grout each cell to full hleght (grout per MAG Section 776).
- 3 2 Torsion spring assisted galvanized diamond plate access doors (design loading AASHO-H20) locking with type 304SS hardware and safety bar (Bilco Model LU-3, or approved equal).
- 4 Ladder 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 OSHÁ requirements for Type IÁ (300 lbs) service shall be submitted for review prior to furnishing and installing. Mill finished aluminum ladder or opproved corrosion resistant material.
- DETAIL B 5 2 x 4 key, center on woll. (Install rope coulk continuously),
 - 1-5/8"= 2-1/2"× 3" key.
 - 7 4" PVC dumbell type continuous waterstop 3/8" min. thickness. (Wash thoroughly prior to installation.
 - B Anchor strops (3 each 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 Scottsdale 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 60, billet steel conforming to ASTM Specification No. A-615, latest edition,
- The Wonitoring/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 Scotladate.
- 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 acceptable at maximum flow), install the flume level (longitudinally and transversely) in the converging section.
- B. Upstream flow should be wave free, non-turbulent, and symmetrical having a uniform velocity (1 ps minimum to 3 ps maximum) at least 10 times the diameter of the upstream sewer pipe in length in the opproach 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.

DETAIL NO. 2460

City of Scottsdale Standard Details

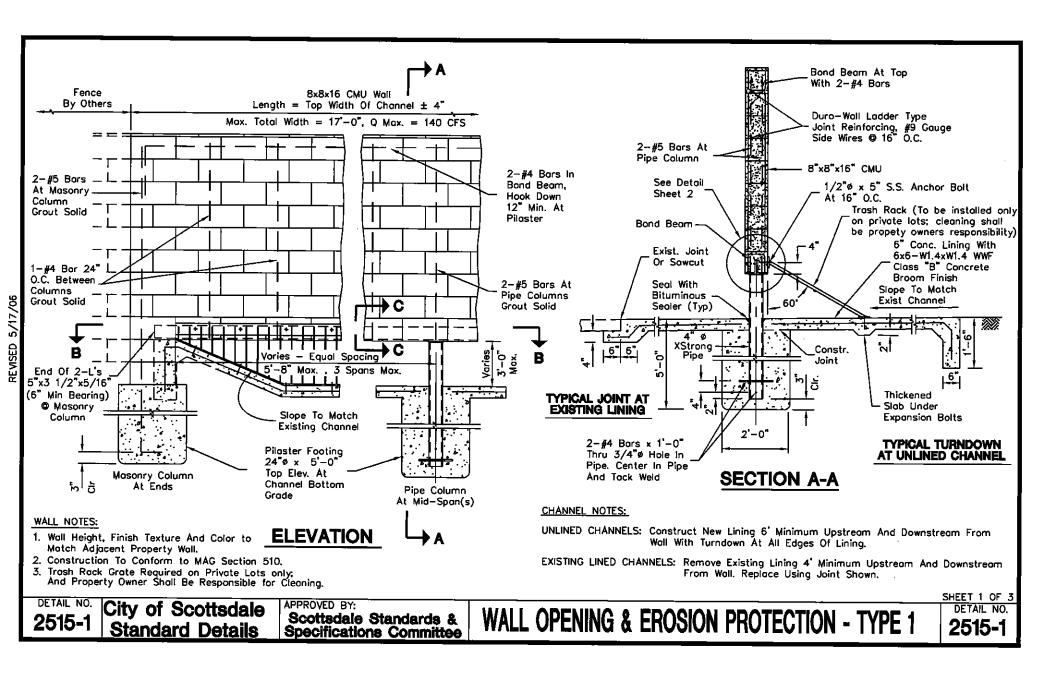
APPROVED BY: Scottsdale Standards & Specifications Committee

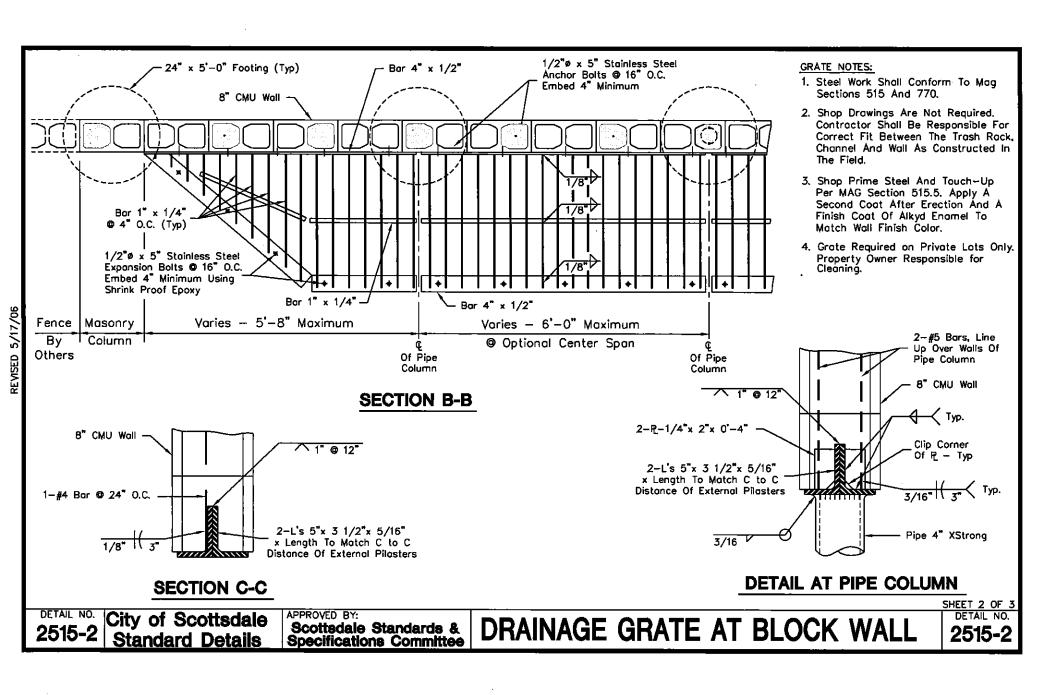
MONITORING/SAMPLING VAULT

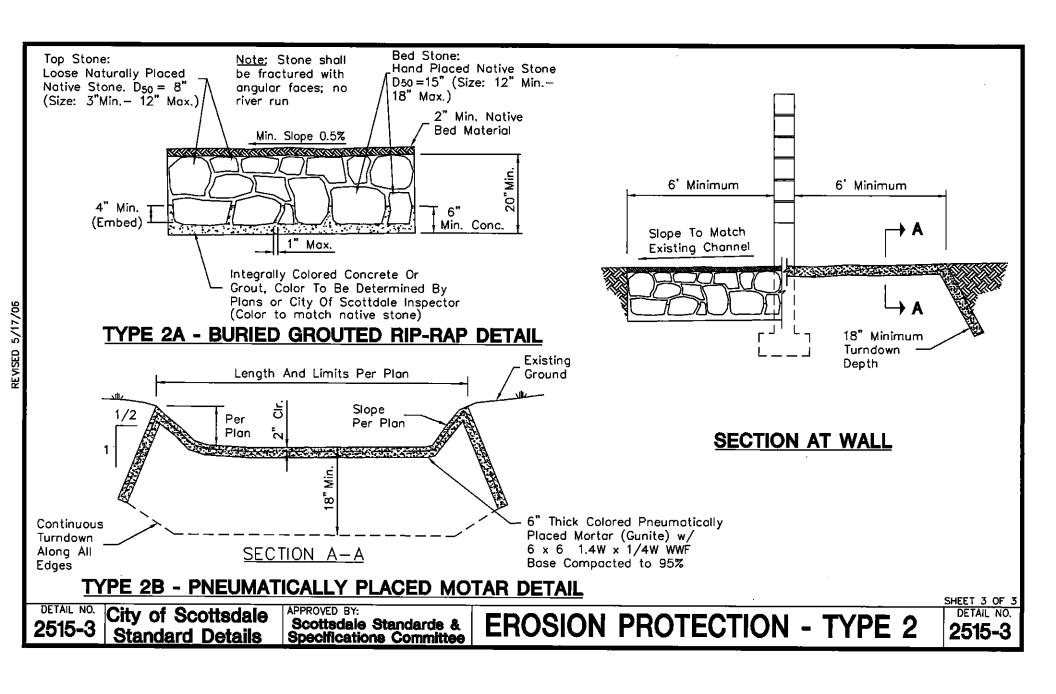
2

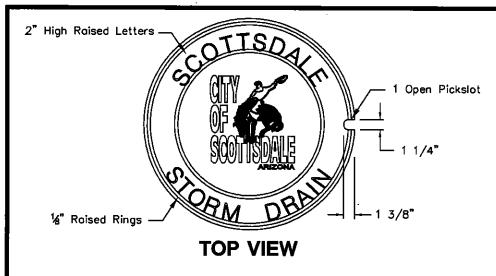
CONCRETE

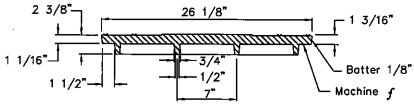
SECTION A-A









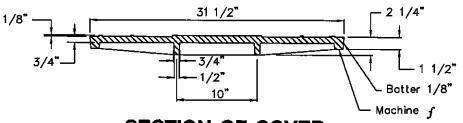


SECTION OF COVER

24" MANHOLE COVER

2" High Raised Letters 1 Open Pickslot 1 1/4" Raised Rings

TOP VIEW



SECTION OF COVER

30" MANHOLE COVER

NOTES

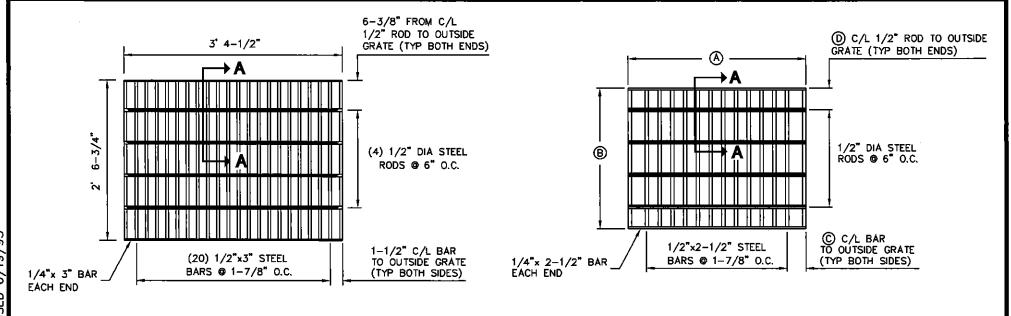
- 1. Material: Cast Gray Iron ASTM A-48, Class 35B, Unpainted
- 2. The Total Width Of Individual Letters To Be Such That Letters And Words Are Equally Spaced And Balanced.
- 3. Letters To Be 2" In Height And Roised 1/8" Above Level Of Cover. Type Of Letters To Be Submitted For Approval.
- 4. Weight Of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

2520 City of Scottsdale

APPROVED BY:

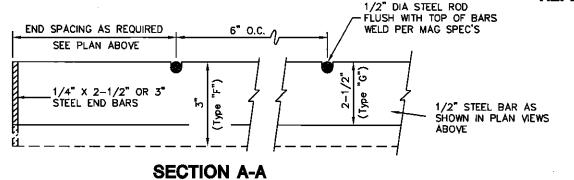
Scottsdale Standards & Specifications Committee

STORM DRAIN 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

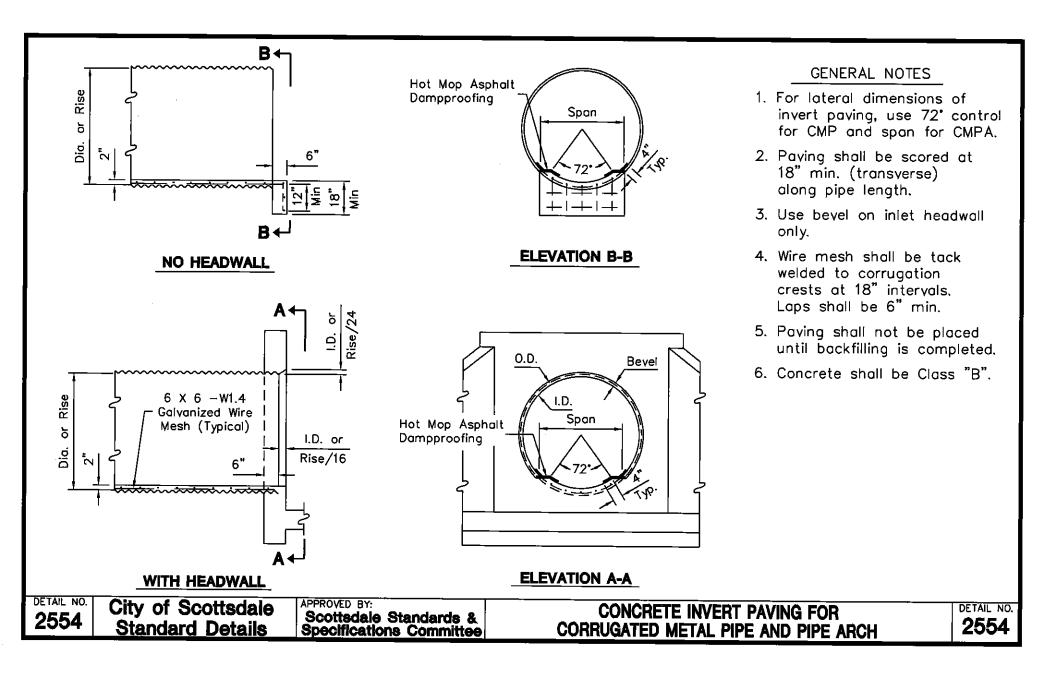
TYPE	"G" GRATE	DIMENSIONS
	SINGLE GRÅTE	DOUBLE GRATE
(A)	2'-2"	4'-3 1/2"
ⓐ	2'-2"	2'-2"
0	2-11/16	2-5/16
0	0'-4"	0'-3 3/4"

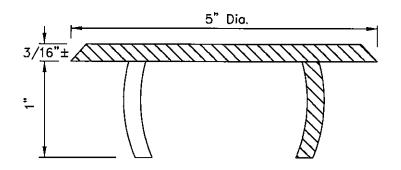
2535

City of Scottsdale Standard Details

APPROVED BY:
Scottsdale Standards &
Specifications Committee

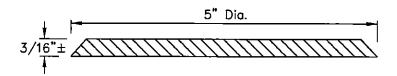
CATCH BASIN GRATES





TYPE 'A:

TO BE INSTALLED IN WET CONCRETE DURING CONSTRUCTION



TYPE 'B'

TO BE INSTALLED WITH ADHESIVE ON EXISTING STRUCTURES

NOTES

- 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.

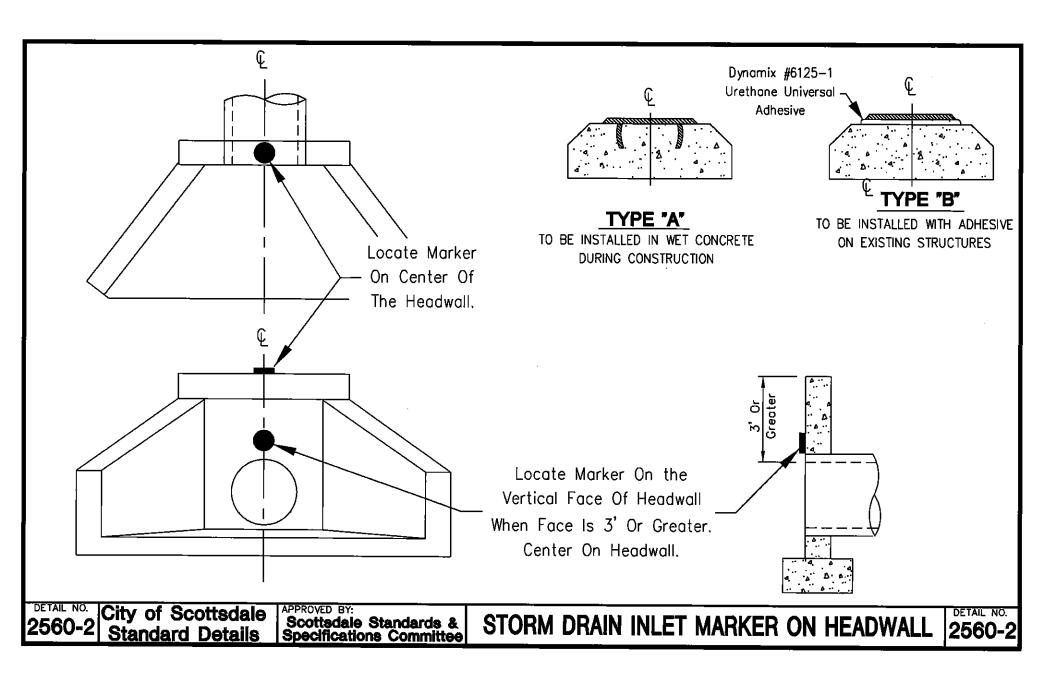
2560-1 City of Scottsdale

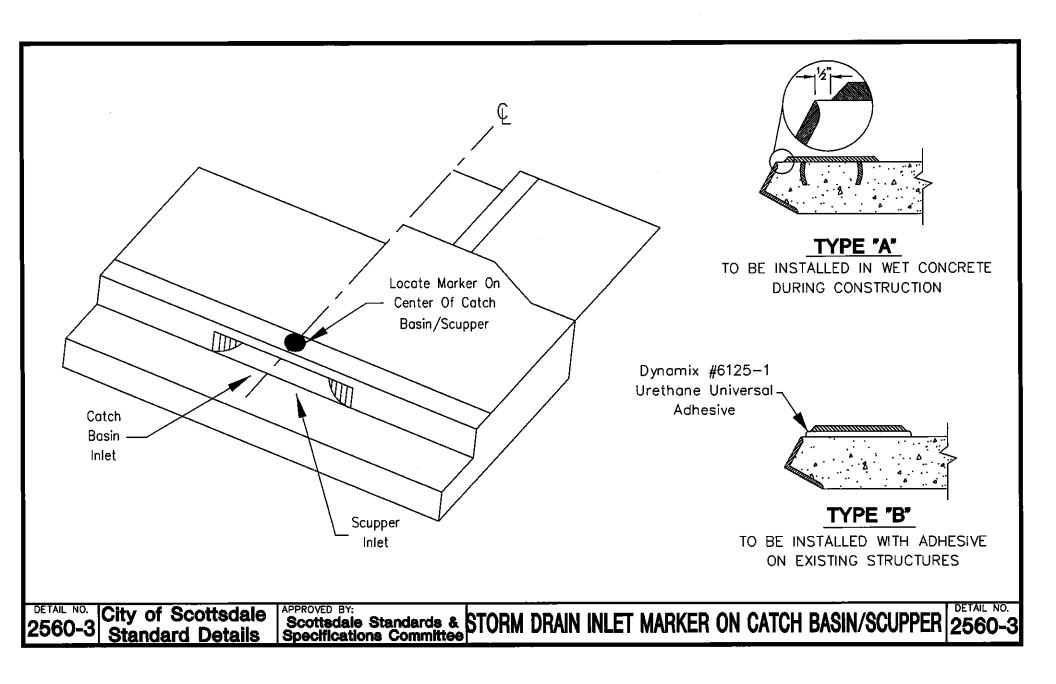
APPROVED BY:
Scottsdale Standards &
Specifications Committee

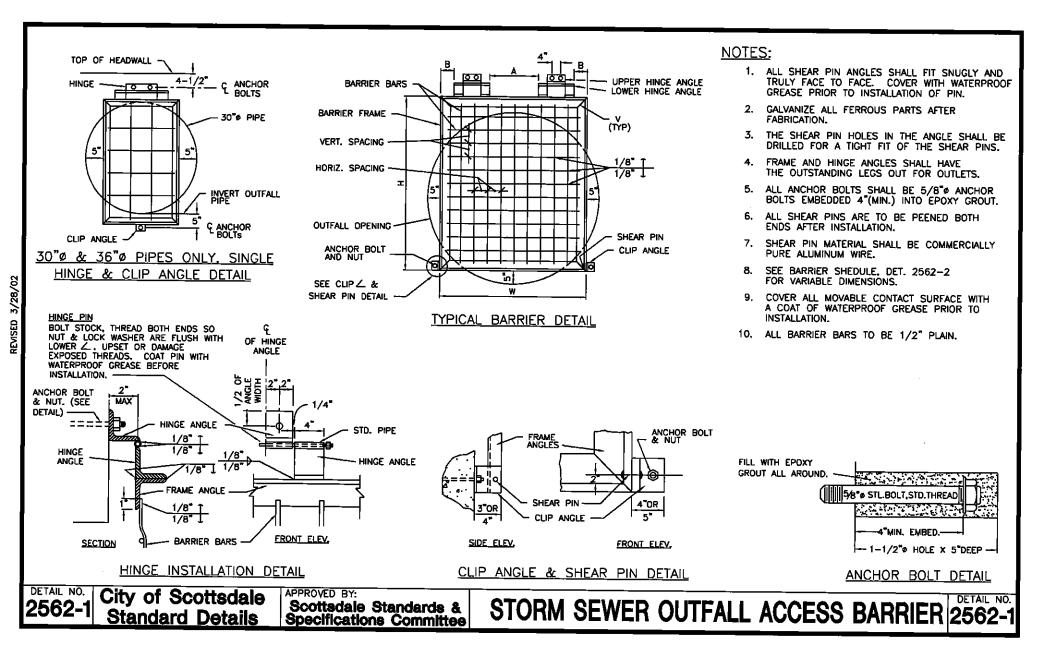
STORM DRAIN INLET MARKER

DETAIL NO. 2560-1









	OUTFALL CONDUIT		CLIP ANGLES				PIPE	BAR SPACES (HORIZ.)	BAR SPACES (VERT.)	FRAME ANGLES)	OUT FRAME ANGLES)		
	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
	42"	2X2X1/4	4X4X1/4	2-1/8ø	1/2"ø	2X2X1/4	3/4"	5	6	42"	32"	0	0
	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"
/02	54"	3x3x7/16	5x3x1/4	2-1/8ø	3/4"ø	2-1/2X 2-1/2X1/4	1"	6	8	54"	44*	5"	3"
3/28/02	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"
REVISED:	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"
REV	72"	4X4X5/8	5x3x1/4	2-3/16ø	1 " ø .	3x3x3/8	1-1/4"	9	11	73"	62"	15"	7"
ı	78"	4X4X5/8	5x3x1/4	2-3/16ø	1 " ø	3x3x3/8	1-1/4"	10	11	79"	68"	17 "	9"
	84"	4X4X5/8	5X3X1/4	2-3/16ø	1 "ø	3x3x3/8	1-1/4"	11	13	86"	74"	21"	10"
	90"	4X4X5/8	5X3X1/4	2-3/16ø	1 " ø	3x3x3/8	1-1/4"	12	13	92"	80"	23"	12"

1-1/4"

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

12

3X3X3/8

HINGE

STD.

PIPE

*NO. OF EQUAL

BARRIER

NO. OF

EQUAL

BARRIER

(OUT TO

OUT

DETAIL NO. City of Scottsdale 2562-2 Standard Details

5x3x1/4

2-3/16ø

4X4X5/8

SIZE OF

OUTFALL

96"

FRAME

ANGLES

SHEAR

PIN

CLIP

SHEAR '

PINS

HINGE

PINS

HINGE

ANGLES

APPROVED BY:
Scottsdale Standards &
Specifications Committee

1"ø

BARRIER SPECIFICATIONS SCHEDULE 2562-2

14

98"

86"

12"

29"

В

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OUT

										MINIMUN	/ T	RE	ΕS	SIZE	REQUIREMEN	TS			_			_	_	_
Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height		_	Name	Size	Height	Width	Caliper	Nome	Size	Height	Width	Caliper
ACACIA					ACACIA (Cont.)	 	┢	_		ARGENTINE MESQUITE	15	5	3	0.75		15			0.5	Name				
BLUE LEAF WATTLE	15	6	2	0.75	WEEPING	15	5	2	0.75		24	8	5		(PROSOPIS VELUNTINA)	24	_	4		SONORAN	15	6	-	0.75
(ACACIA SALIGNA)	24	8	4	1.5	(ACACIA PENDULA)	24	6.5	3	1.25	(M) (I NOBOLIO ALBA)	30	9	7	1.5	(FROSOPIS VELONTINA)	30	9	<u> </u>	1	(CERCIDIUM PRAECOX)	24	7	-4	1.5
	30	10	5	2		30	9	_ _ _	2	1	36	11	9	2	-	36	-		1.5	4	30	8	6	2
	36	12	6	2.5		36	11	6	2.5	1	42	13	_	_	1		10	+-	2	4	36	10	_	2.5
BERLANDER\ GUAJILLO	15	4	2		WILLOW\	15	6	2	0.75	1	48	15		3	+	42 48	12		2.5	4	42	11	10	3
(M) (ACACIA BERLANDIERI)	24	5	4	1	AUSTRALIAN WILLOW	24	8	4		MESQUITE (Cont.)	40	13	13	۲	PALOVERDE	48	14	12	3		48	12	_	3.5
	30	7	5	1.5	(ACACIA SALICINA)	30	10	5	2	CHILEAN MESQUITE	15	6	2	0.75	BLUE PALO VERDE	∤ -=	 _	+	 	SONORAN (M)	15	5	_	0.5
	36	9	6	2	,,	36	14	6	2.5	(PROSOPIS CHILENSIS)	24	8	4			15	_	_	0.75	(CERCIDIUM PRAECOX)	24	7	4	1
MULGA	15	5	2	0.75		٣		Ť	2.0	(FROSOFIS OFILENSIS)	30	9	6	_	(CERCIDIUM FLORIDUM)	24	-	-	1.5		30	8	$\overline{}$	1,5
(ACACIA ANEURA)	24	7	4		IRONWOOD	+	_		_		36	10	8	2.5		30	9	7	2		36	10	8	2
,	30	9	6		DESERT IRONWOOD	15	3	2	0.5		_		_	_		36	10	_	2.5	}	42	11	_	2.5
	36	10	8	2.5	(OLNEYA TESOTA)	24	6	3	1.25	1	42	12	10			42	12	-	3		48	12	12	3
SHOESTRING	15	7	-	0.75	(OLNETA TESOTA)	30	В	6	2	CUID EAM A COOLUME (S.O.	48	14	12	-		48	14	-	3.5	OTHER TREES	\sqcup		丄	
(ACACIA STENOPHYLLA)	24	9	4	1.5		36	10	8	2,5	CHILEAN MESQUITE (M)	15	5	3	_	BLUE PALO VERDE (M)	15	-	3	0.5	AFRICAN SUMAC	15	7	_).75
(30	11	5	2		42	11	9	3	(PROSOPIS CHILENSIS)	24	8	5		(CERCIDIUM FLORIDUM)	24	7	4	1	(RHUS LANCEA)	24	9	4	.25
	_	13	6	2.5		48	12	10	_		30	9	7			30	8	6	1.5	1	30	11	6	2
		15	7		DESERT IRONWOOD (M)	15	3	_	3.5		36	10	9	_		36	10		2		36	12	8	2.5
	\rightarrow	17	8	4		24	$\overline{}$	2	0.5		42	12	11			42	12	_	2.5		42	14	8	3.5
SHOESTRING (M)	_		2.5	0.5	(OLNEYA TESOTA)	-	6	.3	1.25		48	14	13	3_	<u> </u>	48	14	11	3		48	15	9	4
(ACACIA STENOPHYLLA)	_	9	4			30	8	6	2	HONEY MESQUITE (M)	15	6	2		LITTLE LEAF\ FOOTHILLS	15	4	2	0.5	AFRICAN SUMAC (M)	15	5	3 ().75
(NONOIN STEINOPHTELA)	_	13		1		36	10	8	2.5	(PROSOPIS -	24	8	4	1.5	(CERCIDIUM -	24	6	3	1	(RHUS LANCEA)	24	В	4.5	1
SWEET	15		6	2		42	11	9		GLANDULOSA)	30	9	6	2	MICROPHYLLUM)	30	7	5	1.5]	30	9	7	1.5
	_	-	2.5	0.75	WEGGLÜZE	48	12	10	3.5		36	10	8	2.5		36	8	6	2		36	11	8	2
(ACACIA SMALLII)	24	8	4		MESQUITE	┷-	_	_			42	12	10	3	LITTLE LEAF\ FOOTHILLS	15	4	3	0.5	1	42	13	9	2.5
•	30	9	6		ARGENTINE MESQUITE	\rightarrow	6.5	2	0.75		48	14	12	3.5	(M) (CERCIDIUM -	24	5	4	1	1	48	16	10	3
	_	10	8	2.5	(PROSOPIS ALBA)	24	8	4		SCREW BEAN (M)	15	5.5	3	0.5	MICROPHYLLUM M)	30	6	5	1.5	ALEPPO	15	6	3 (.75
	_	12	10	3		30	9	6	2	(PROSOPIS -	24	8	4	1		36	8	7	2	(PINUS HALEPENSIS)	24	9	4	2
04557 40	_	14	12	3.5		36	11	В	2.5	PUBESCENS)	30	9	6	1.5							30	11	6	3
SWEET (M)	15	5	3	0.5		42	$\overline{}$	10	3		36	10	8	2						1	36	14		3.5
(ACACIA SMALLII)	$\overline{}$	8	5	1		48	15	12	3.5		42	12	10	3			Γ	П			42	16	- +	4
	30	9	7	1.5		\Box		[48	14	12	3.5			_	П			\rightarrow		_	7 4.5
	**	10	9	2													┢	М			 		- -	
	_	12	10	2.5	See General Notes						Г						T	Н			├─┼	_	_+	_
	48	14	12	3	Page 3	ШT												\vdash		Page 1 of 3	\vdash	\dashv	+	_
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2600-1	S	tai	nda	ard i	Details					MINIMI	J٨	Λ.	TF	?F	E SIZE RE	\mathbf{C}	l J	IP	F	MENITS	24	20	D-1	
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		•			-	MI	NIN	/U	M T	REE SIZE REQI	ŲĮĘ	EN	ΙΕΙ	NTS												
Name	Size	Height	Width	Caliper	Name	Size	Height	Width	aliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper		
ARIZONA ASH	15		2	<u> </u>	Canary Island Pine	15	6	2		COOLIBAH	15	17	3	0.75	FEATHER BUSH	15		3	0.75	JACARANDA	15	8	2	0.75		
(FRAXINUS VELUTINA)	$\overline{}$		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		
ľ í	_	_	5	2	1	30	13	5	3.5	MICROTHECA)	30	12	5	2	(LYSILOMA THORNBERI)	30	7	6.5	2	ľ	30	12	5	2.5		
I	_	_	8	2.5	1	36	17	5	4	, , , , , , , , , , , , , , , , , , ,	36	15	6	2.5	<u> </u>	36	В	6	2.5	1	36	14	8	3		
	42	15	9	3	1	42	18	6	4.5	CORK OAK	15	4	2	0.75	FEATHER BUSH\ FERN	15	4	3	0.75	1	42	16	8	3,5		
	48	16	10	3.5	1	48	22	7	5.5	(QUERCUS SUBER)	24	6.5	3	1.5	OF THE DESERT(M)	24	5	5	1	1	48	18	9	4		
ARIZONA SYCAMORE	15	7	2	1	CAROB	15	8	2	0.75		30	9	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	l	36	В	8	2	(JACARANDA-	. 24	8	5	0.75		
	30	13	6	2.5		30	10	5	2		42	14	9	4	FICUS	15	В	2	0.75	ACUTIFOLIA)	30	10	6	1.5		
	36	16	8	3.5		36	12	5	3		48	16	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	_	2.5	0.75		30	10	5	2	LEMON BOTTLE BRUSH	15	8	2	0.75		
(PLATANUS WRIGHTII)	24	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	1.25		
,			7	2)	30	7	5	2	DESERT WILLOW	15	_	2	_	<u>FICUS</u>	15			0.5		30	10	5	2		
	_	_	9	3	<u> </u>	36	8	6	2.5	(CHILOPSIS LINEARIS)	24	-	4	1.25	(FICUS NITIDA M)	24			1		36	12	6	2.75		
	15	5	3		CHINESE EVERGREEN	15	7	2	0.75		30	_	6	1.75]	30			2	MEDITERANEAN FAN	15	2	2	N∖A		
	24	8	4	1.25	<u>ELM</u>	24	8	3	1.25		36	_	8	2.25		36	_	8	2.5	PALM	24	3	3	NVA		
	30	10	5	2	(ULMUS PARVIFOLIA)	30	12	6	2	DESERT WILLOW (M)	15		3	0,75	FLOODED GUM	15	-	3	1	(CHAMAEROPS HUMULIS)	30	4	4	N/A		
	36	-	5.5	2.5	1	36	14	8	2.5	(CHILOPSIS LINEARIS)	24		5	1	(EUCALYPTUS RUDIS)	24	_	-	1.5		36	5	5	N\A		
BOTTLE TREE	15	_	2	1.5		42	16	9	3.5		30	_	6	1.5	FLOWERING CHERRY	15	_	_	0.75	MESCAL BEAN TEXAS	15	3	1	0.75		
(BRACHYCHITON -	24	9	4	2,5		48	18	10	3.75		36	_	8	2	(PRUNUS VARIETIES)	24		4	1.25	MOUNTAIN LAUREL	24	4	2	1		
POPULNEUS)	30	_	5	4	CHINESE PISTACHE	15	7	2	_	ELDARICA	15	_	2	1.5	1	30	-	8	2	(SOPHORA -	30	5	3	1.75		
	36	-	6	5	(PISTACIA CHINENSIS)	24	9	4	1.5	(PINUS ÉLDARICA)	24	_	4	2	1	36	_	_	2.5	SECUNDIFLORA)	36	6	4	2.		
	42	_	В	6	4	30	10	5	2.5		30	-	4	3	4	42	-	_	3	MESCAL BEAN\ TEXAS	15	3	2	0.75		
			9	6.5		36	12	6	3.5		36	-	5	4		48	-	12	3.5	MOUNTAIN LAUREL (M)	24	4	3			
	15	- +	2		CHIR PINE\ INDIAN	15	5	3	1		42	-	7	4.5	HONEY LOCUST	15	_	2	0.75	(SOPHORA -	30	5	4	1.5		
(SCHINUS -	24	9	4	1.25	LONG LEAF	24	8	4	2		48	_	9	5.5	(GLEDITSIA TRIACANTHOS	24	-	4	1.5	SECUNDIFLORA)	36	6	5	2		
TEREBINTHIFOLLA)	30	_	5	2.5	(PINUS ROXBURGHII)	30	11	6	2.5	EVERGREEN PEAR	15		2	0.75	INERMIS)	30	-		2	MEXICAN PALO VERDE	15	7	3	 1 -		
CALIFORNIA DEDDEC	36	12	8	3	-	36	15	6.5	3.5	(PYRUS KAWAKAMI)	24		4	1.5	4	36	12	-	2.5	JERUSALEM	24	9	6	1.5		
CALIFORNIA PEPPER	15	-	2	0.75	+	42	17	8	4,5		30	-	6	2.5	4	42	-	_	3	(PARKINSONIA ACULEATA)	30	11	9	2.5		
(SCHINUS MOLLE)	24	8	4	1.25	-	48	20	9	5		36	-	8	3.5	4	48	16	12	3.5	-	36	12	10	3		
 	30 36	10	6	2.5	Sac Conord Notes	\vdash	H		-	1	42		10		4		+	<u> </u>	 	1	\vdash		 	$\vdash \vdash$		
 	30	12	8	3	See General Notes	\vdash	\vdash		-	1	48	1 16	12	4.5	4		┼	├	\vdash	4			 	├─┤		
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MODESTO ASH (FRAXINUS V MODESTO)	15 24 30 36 42 48	8 10 12 14 16	2 4 6 7	1.5	Name RAYWOOD ASH CLARET ASH (FRAXINUS O RAYWOODII)	8ZI SS 15 24		4 Width	Caliper			Ħ	_	<u>ا</u>			ıt		<u>_</u>					П
MODESTO ASH (FRAXINUS V MODESTO)	15 24 30 36 42 48	8 10 12 14 16	2 4 6 7	1 1.5 2	RAYWOOD ASH\ CLARET ASH	15	8	_		Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper					
(FRAXINUS V MODESTO)	24 30 36 42 48	10 12 14 16	4 6 7	1.5 2	CLARET ASH			1 4	1	SILK TREE MIMOSA (M)	15		3.5	0.5	SILK TREE MIMOSA	<u>ග</u> 15	6	3		1			-	⊢
3 2	36 42 48	14 16	6 7	2			10		1.5	(ALBIZIA JULIBRISSIA)	_	6.5	5	_	(ALBISIA JULIBRISSIN)	24	8	4	0.75 1.5	1	-	H	ļ	₩
	42 48	16	_			30			2	(ILDIZII (VOEID(IIOGIA)	30	-	6	1	(ALBISIA JULIBAISSIN)	30	10	6	2	ł	-	_	-	⊢
	48		-		,	36		_	2.5	1	36	_	8	2.5	1	36	12	8	3	ł	_	H	<u> </u>	₩
	_	17	0	3		42		10	3	SILVER DOLLAR GUM	15	_	3		TEXAS EBONY (M)	15	4	2	0.5		-	⊢		₩
NAPPOW LEAF CIMILETS /	45	'' 1	10	3.5		48	18	12	4	(EUCALYPTUS-	24		4	1.5	(PITHECELLUBIUM-	24	6	4	1	i	-	 	_	⊢
IVANANCE LEAF GINICE IV	פו	6 2	2.5 (0.75	RED CAP GUM	15	6.5	2.4	0.75	POLYANTHEMOS)	F	-		1,,,,	FLEXICAULE)	30	7	6	1.5	ĺ	-	-		⊢
SWAMP MALLET 2	24	8	3	1	(EUCALYPTUS-	24	8	4	1.25	SISSOO	15	7	3	0.75	, ==,	36	9	8	2	1		H		⊢
(EUCALYPTUS -		_ [ERYTHROCORYES)		1			(DALBERGIA SISSOO)	24	10	4	1.25		42		10	2.5	1		┢	┢	⊢
SPATHULATA)					RED GUM	15	В	3	1		30	12	7	2,5		48		11	3			┢		⊢
		7			(EUCALYPTUS-	24	10	4	1.75		36	15	10	3	WEEPING BOTTLE	15	В		0.75	1	\vdash	├─	\vdash	\vdash
· · · · · · · · · · · · · · · · · · ·		<u> </u>	4 -	1.25	CAMALDULENSIS)					SOUTHERN LIVE OAK	15	6	2		BRUSH	24	10	3.5	1.5		\vdash	┢	1	╆
_	_	_		_	RED IRON BARK	15	8	3	0.75	HERITAGE	24	9	4	1.25	(CALLISTEMON VIMINALIS)	_	12	5	2			\vdash		⊢
	_		_	_	(EUCALYPTUS -	24	10	4	1.5	(QUERCUS VIRGINIANA)	30	11	6.5	2	ĺ	36	14	7	2.5		\vdash	┝		\vdash
		_		_	SIDERÓXYLON)					·	36	13	8	2.75	WEEPING WILLOW	15	8	2	1			 - -	_	\vdash
	_	8 5			RIO GRANDE\ FAN	15	7	2	0.75		42	15	10	3.5	(SALIX BABYLONICA)	24	10	4	1.5			_	\vdash	\vdash
	30		_	_	TEXAS ASH	24	9	4	1.25		48	17	12	4.5	·	30	12	6	2.5			\vdash		\vdash
	_	_		_	(FRAXINUS V FANTEX)	30	12	5	2	TEXAS EBONY	15	5	2	0.75		36	14	8	4			-		\vdash
	_	14 '		3.5		36	14	В	2.5	(PITHECELLOBIUM-	24	6	3	1.5	WHITE IRON BARK	15	6.5	2.5	0.75	1				\vdash
	_			4		42	15	_	3.5	FLEXICAULE)	30	7	4	2	(EUCALYPTUS -	24	В	3.5	1.25					
	_		_	0.75	<u> </u>	48	16	10	4		36	ø	6	2.5	LEUCOXYLON)									
·	_		_		SHAMEL\ EVERGREEN	15	8	2	1		42	10	6	3	YELLOW OLEANDER	15	6	2	0.5					
_	_	_	_		(FRAXINUS UHDEI)	24	10	4	1.5		48	11	7	3.5	(THEVETIA PERUVIANA)	24	8	4	1.25			_		
	_		_	2.5		30	_	_	2.5						YELLOW OLEANDER(M)	15	4	3.5	0.5					
	_			1		36	14	_	3						(THEVETIA PERUVIANA)	24	6	5	0.75					
· –		_	_	1.5		42	15	_	3.5									1						
_		_	_	2.5	<u> </u>	48	16		4						GENERAL NOTES									
<u> </u>			_	_	<u>SILK OAK</u>	15	8	3	_1_						<u> </u>									
		16			(GREVILLEA ROBUSTA)	24	10	_	2	1. All trees shall	be g	uara	nte	ed for	one year from the date	of a	ccep	otano	æ					
4	18	18 1	2	4		30	12	.6	2.5	"M" designate	sar	nulti	truni	k tree	. A multitrunk tree is a t	ree v	vith	more	thar	ı one main trunk.				
	+	+	+			36	14	7	3	Caliper is mea	asure	ed at	12"	abov	e the ground for trees w	vith c	alip	er gı	eater	than 4". For multitrun	k tree	s,		
 -	+	+		_		\vdash	<u> </u>	Ш		and trees wit	th ca	liper	of le	ess th	at 4", the caliper is mea	sure	d 6"	abo	ve th	e around.				
	+	+	+		Daga 2 -4 C	\vdash		igspace		4. Size is listed a	as the	e bo	x siz	e in i	nches except for those t	trees	in 1	5 ga	illon (containers.				
					Page 3 of 3	Ш		<u> </u>																
DETAIL NO.	Ci	ty (of S	SCO	ttsdale APPROVE	D BY:																ETA	II NA	
2600-3	Sta	nd	arc	d b	etails					MINIM	UN	Λ.	ΤF	RΕ	E SIZE RE	O	U	IR	FN	MENTS	1	60		

Prune Tree At Time Of Stake Removal. (2) 2" Diameter x 10' Long -Lodgepole Pine Tree Stakes. Bury 3' In Ground And Cut Off Stake 12" Above Vinyl Tie. Stakes Shall Remain In Place For 2 Years Unless Removal Is Approved By Maintenance Director. Mulch To A Depth Of 1/2", 5' In Diameter, Keep Mulch 6" Away From Trunk, Backfill With Native Soil. (No Rocks Greater Than 1") Apply Fertilizer To Surface Away From Trunk Per

Scarify One Side Of Root Ball Prior To Planting

Specifications.

Note: Sufficient clearance shall be maintained between trees and utility facilities so as to not hinder use of these facilities.

Vinyl Tie, 1" (Mln.) In Width

Set Top Of Root Ball At Soil Surface.

Form Temporary Irrigation Border Just Outside Of Root Ball. Use Water To Settle Backfill, Do Not Pack Backfill,

Planting Hole Shall Be 3 Times Diameter Of Root Ball And No Deeper, Scarify Sides And Bottom Of Planting Hole

Tree Planting and Staking ≤36" Box Or 2" Caliper

All Groundcovers To Be Planted On Center (See Plant Legend) In A Triangular Pattern.

X = O.C. Dimension As Noted On Plan

Y = 0.86 Of Dimension "X"

Mulch Soil To A Depth Of 2°. 1' In Diameter, Keep Mulch 2" Away From Plant Base.

Prepare Soil Per Specifications And Rototill To A Depth Of 6" Prior To Any Sprinkler Work,

Backfill With Native Soil. Apply Fertilizer To Surface Away From Trunk Per Specifications.

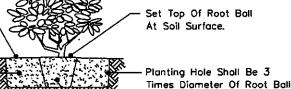
Groundcovers

Scottsdale Standards & Specifications Committee

Note: Sufficient clearance shall be maintained between shrubs and utility focilities so as to not hinder use of these facilities.

Mulch Soil To A Depth Of 2", 2" In Diameter For 1 Gal, Shrubs, 4' In Diameter For 5 Gal. Shrubs, Keep Mulch 4" Away From Plant Base.

Backfill With Native Soil. Apply Fertilizer To Surface Away From Trunk Per Specifications.

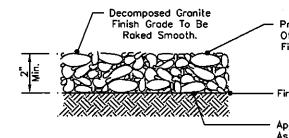


Scarify One Side Of Root Ball Prior To Planting

Shrub Planting

And No Deeper, Scarify Sides

And Bottom Of Planting Hole



Provide Final Application Of Weed Control Upon Final Raking.

Fine Graded Subgrade

Apply Pre-Emergent Herbicide As Per Monufacturers Recommendations, (Surflan Or Equal Approved By City Of Scottsdale)

Decomposed Granite

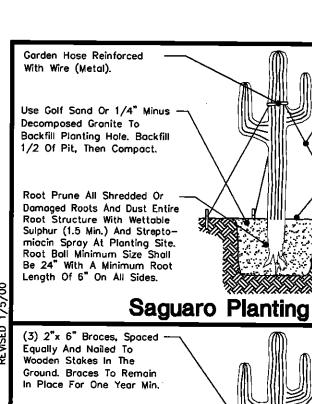
LANDSCAPE DETAILS

DETAIL NO. 2620-

DETAIL NO.

City of Scottsdale Standard Details

APPROVED BY:



3 Tree Braces, Spaced Equally. Braces To Remain In Place For One Year Min.

> 6 - 1 Gallon Emitters In 'Hula Hoop' Distribution. Run Once A Month 24 To 48 Hours For One Year.

Planting Hole Width Shall Be 3 Times Diameter Of Roots And No Deeper Than The Extension Of The Roots.

NOTES:

- 1. Optimum transplanting season is October thru November.
- 2. Maintain original plant orientation. The original "North" orientation shall be marked on a rib at a height of 5' above ground level.
- 3. Water thoroughly at the time of transplanting to remove air pockets and assure proper compaction. Backfill shall be free of injurious rocks and debris.
- 4. Do not water for 3 weeks after planting.
- 5. Plant in areas safe from present and future construction activities.
- 6. Transplant to original depth of bury.

NOTE: Water weekly through the summer,

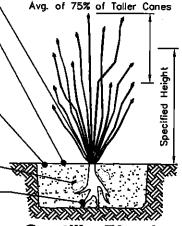
Plant At Depth Which -Plant Was Grown.

Planting Mix To Be 1/3 -Golf Sand And 2/3 Specified Soil, Pock The Backfill Mix. Do Not Use Water To Settle Backfill Mix.

Planting Hole Width Shall-Be 3 Times Diameter Of Roots And No Deeper Than The Extension Of The Roots.

Use 6" to 8" Rocks To-Anchor Roots.

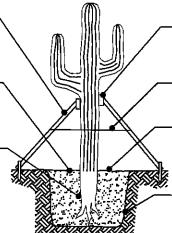
Root Prune All Shredded Or Damaged Roots And Dust Entire Root Structure With Wettable Sulphur (1.5 min.) At Plantina Site.



Ocotillo Planting

Use Golf Sand Or 1/4" Minus -Decomposed Granite To Backfill Planting Hole, Backfill 1/2 Of Pit, Then Compact.

Root Prune All Shredded Or Damaged Roots And Dust Entire Root Structure With Wettable Sulphur (1.5 Min.) And Streptomiocin Spray At Planting Site. Root Ball Minimum Size Shall Be 24" With A Minimum Root Length Of 6" On All Sides.



4"x 8"- Dense Foam And Carpet Podded, 8' **Above Natural Grade** And Nailed To Brace.

Type A

Steel Band Fastened With 2 Large Staples Per Brace.

6 - 1 Gallon Emitters in 'Hula Hoop' Distribution. Run Once A Month 24 To 48 Hours For One Year.

Planting Hole Width Shall Be 3 Times Diameter Of Roots And No Deeper Than The Extension Of The Roots.

NOTES:

- 1. Optimum transplanting season is October thru November.
- 2. Maintain original plant orientation. The original "North" orientation shall be marked on a rib at a height of 5' above ground level.
- 3. Water thoroughly at the time of transplanting to remove air pockets and assure proper compaction. Backfill shall be free of injurious rocks and debris.
- 4. Do not water for 3 weeks after planting.
- 5. Plant in greas safe from present and future construction activities.
- 6. Transplant to original depth of bury.

Plant At Depth Which -Plant Was Grown.

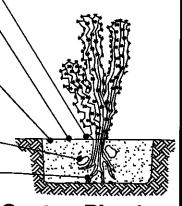
Planting Mix To Be 1/3 -Golf Sand And 2/3 Specified Soil, Pack The Backfill Mix. Do Not Use Water To Settle Backfill Mix.

Planting Hole Width Shall Be 3 Times Diameter Of Roots And No Deeper Than The Extension Of The Roots.

Use 6" to 8" Rocks To Anchor Roots.

Root Prune All Shredded Or Damaged Roots And Dust Entire Root Structure With Wettable Sulphur (1.5 min.) At Planting Site.

NOTES: Water weekly through the summer. Maintain original growing orientation.



Cactus Planting

DETAIL NO.

City of Scottsdale Standard Details

Saguaro Planting

APPROVED BY:

Type B

Scottsdale Standards & **Specifications Committee** LANDSCAPE DETAILS

Staking Required For Trees In 36"

Box Or Less Or With A Coliper Of

Than The Extension Of

City of Scottsdale

Standard Details

APPRÖVED BY:

Scottsdale Standards & Specifications Committee

The Roots.

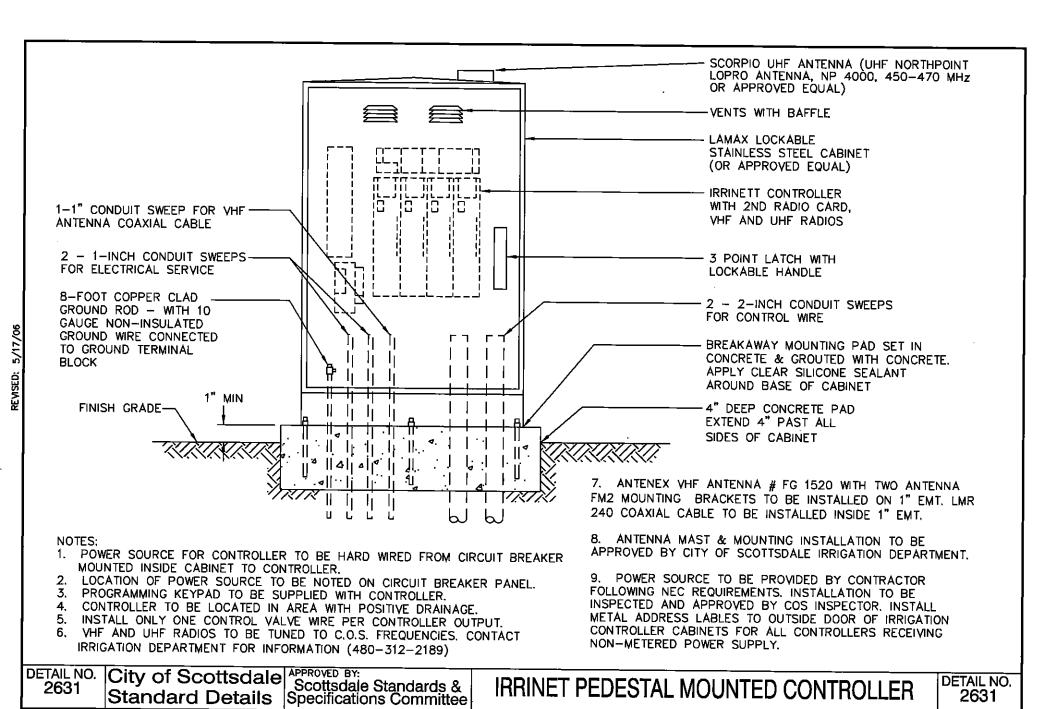
Notes: 1. Sufficient clearance shall be maintained

between trees and utility facilities so as

to not hinder use of these facilities.

Bracing Detail

LANDSCAPE DETAILS



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DETAIL NO. City o

POWER UPPLY.

City of Scottsdale Standard Details

PROGRAMMING KEYPAD TO BE SUPPLIED WITH CONTROLLER.
CONTROLLER TO BE LOCATED IN AREA WITH POSITIVE DRAINAGE.
INSTALL ONLY ONE CONTROL VALVE WIRE PER CONTROLLER OUTPUT.

SCORPIO UHF ANTENNA (UHF NORTHPOINT LOPRO ANTENNA, NP 4000, 450-470 MHz

OR APPROVED EQUAL)

Scottsdale Standards & Specifications Committee

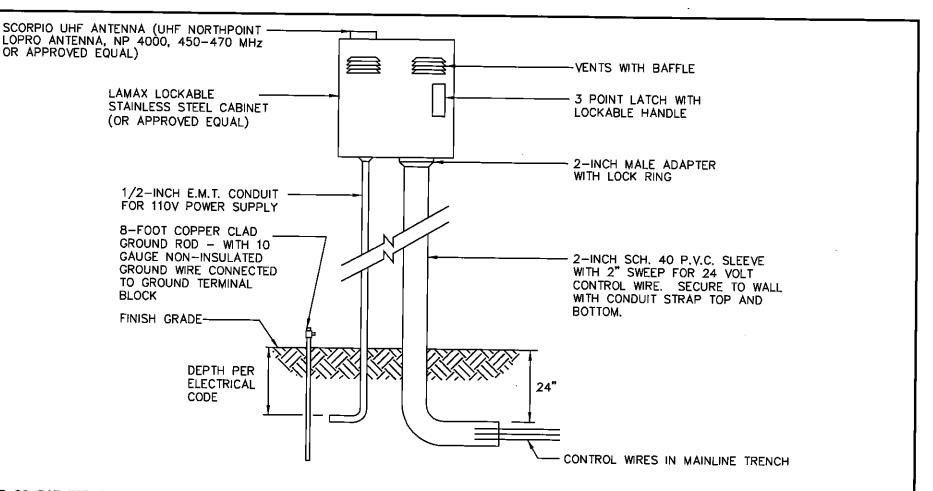
UHF RADIO TO BE TUNED TO C.O.S. FREQUENCIES, CONTACT IRRIGATION DEPARTMENT FOR INFORMATION (480-312-2189)

9. POWER SOURCE TO BE PROVIDED BY CONTRACTOR FOLLOWING NEC REQUIREMENTS. INSTALLATION TO BE INSPECTED AND APPROVED BY COS INSPECTOR, INSTALL METAL ADDRESS LABLES TO OUTSIDE DOOR OF IRRIGATION CONTROLLER CABINETS FOR ALL CONTROLLERS RECEIVING NON-METERED

SCORPIO PEDESTAL MOUNTED CONTROLLER

·VENTS WITH BAFFLE





NOTES:

1. POWER SOURCE FOR CONTROLLER TO BE HARD WIRED FROM CIRCUIT BREAKER MOUNTED INSIDE CABINET TO CONTROLLER.

LOCATION OF POWER SOURCE TO BE NOTED ON CIRCUIT BREAKER PANEL.

REMOTE CONTROL VALVES FOR D.C. SCORPIO APPLICATIONS MUST HAVE D.C. LATCHING SOLENOIDS AND APPROVED SOLAR PANEL FOR POWER SOURCE. JSLM NARROW BAND RADIO #2845 G TO BE INSTALLED WITH SCORPIO CONTROLLER.

PROGRAMMING KEYPAD TO BE SUPPLIED WITH CONTROLLER.

INSTALL ONLY ONE CONTROL VALVE WIRE PER CONTROLLER OUTPUT.

UHF RADIO TO BE TUNED TO C.O.S. FREQUENCIES. CONTACT IRRIGATION DEPARTMENT FOR INFORMATION (480-312-2189)

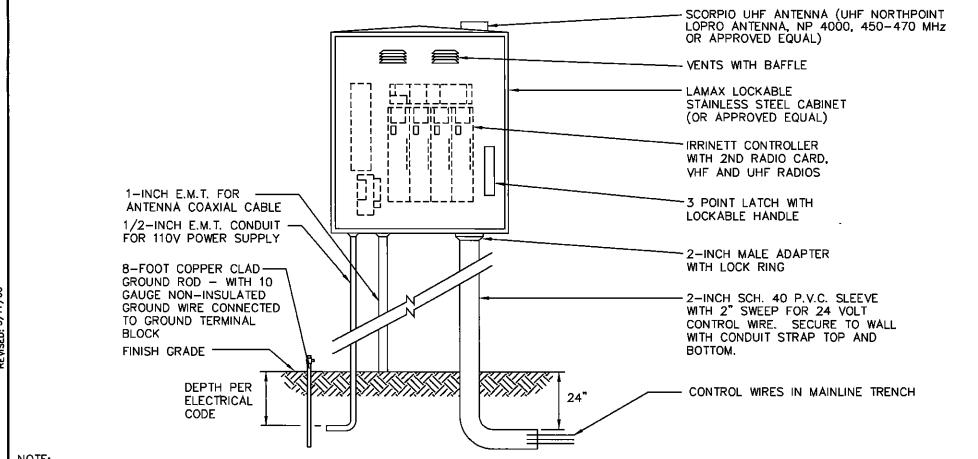
8. POWER SOURCE TO BE PROVIDED BY CONTRACTOR FOLLOWING NEC REQUIREMENTS. INSTALLATION TO BE INSPECTED AND APPROVED BY COS INSPECTOR, INSTALL METAL ADDRESS LABLES TO OUTSIDE DOOR OF IRRIGATION CONTROLLER CABINETS FOR ALL CONTROLLERS RECEIVING NON-METERED POWER SUPPLY.

2633

DETAIL NO. City of Scottsdale

APPROVED BY: Scottsdale Standards & Standard Details Specifications Committee

SCORPIO WALL MOUNTED CONTROLLER



NOTE:

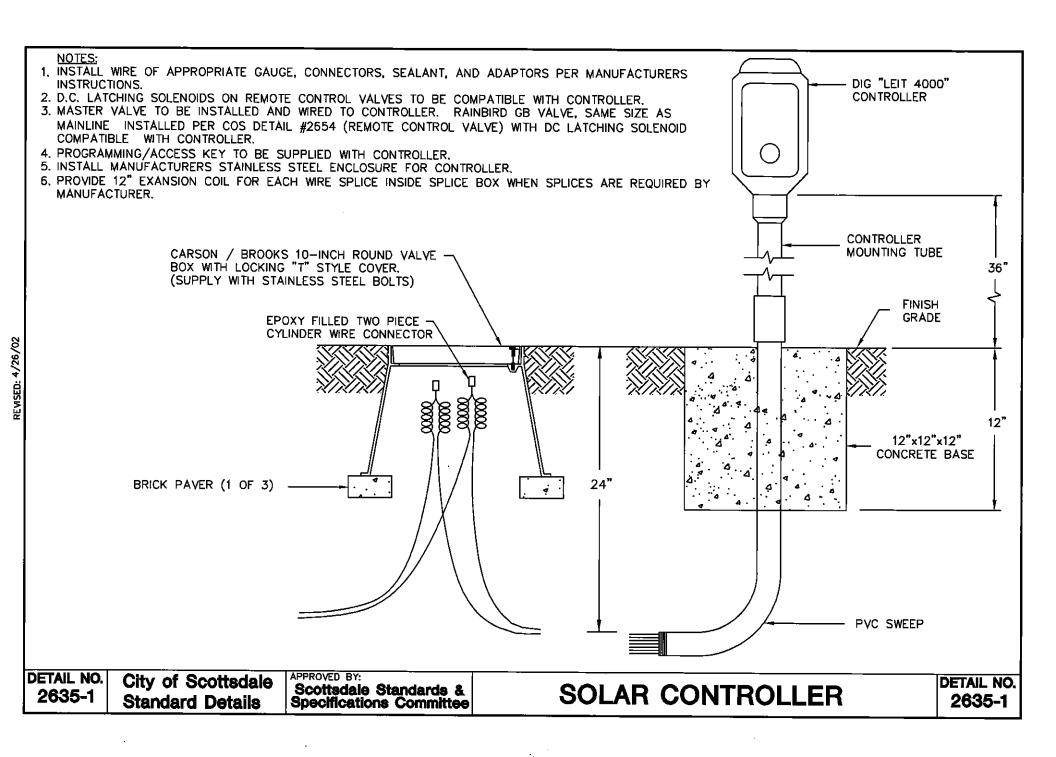
- POWER SOURCE FOR CONTROLLER TO BE HARD WIRED FROM CIRCUIT BREAKER MOUNTED INSIDE CABINET TO CONTROLLER.
- LOCATION OF POWER SOURCE TO BE NOTED ON CIRCUIT BREAKER PANEL,
- PROGRAMMING KEYPAD TO BE SUPPLIED WITH CONTROLLER.
- INSTALL ONLY ONE CONTROL VALVE WIRE PER CONTROLLER OUTPUT.
- VHF AND UHF RADIOS TO BE TUNED TO C.O.S. FREQUENCIES, CONTACT IRRIGATION DEPARTMENT FOR INFORMATION (480-312-2189)
- POWER SOURCE TO BE PROVIDED BY CONTRACTOR FOLLOWING NEC REQUIREMENTS. INSTALLATION TO BE INSPECTED AND APPROVED BY COS INSPECTOR, INSTALL METAL ADDRESS LABLES TO OUTSIDE DOOR OF IRRIGATION CONTROLLER CABINETS FOR ALL CONTROLLERS RECEIVING NON-METERED POWER SUPPLY.
- 7. ANTENEX VHF ANTENNA #FG1520 WITH TWO ANTENEX FM2 MOUNTING BRACKETS TO BE INSTALLED ON 1" E.M.T. LMR 240 COAXIAL CABLE TO BE INSTALLED INSIDE 1" E.M.T.
- 8. ANTENNA MAST AND MOUNTING INSTALLATION TO BE APPROVED BY COS IRRIGATION DEPARTMENT.

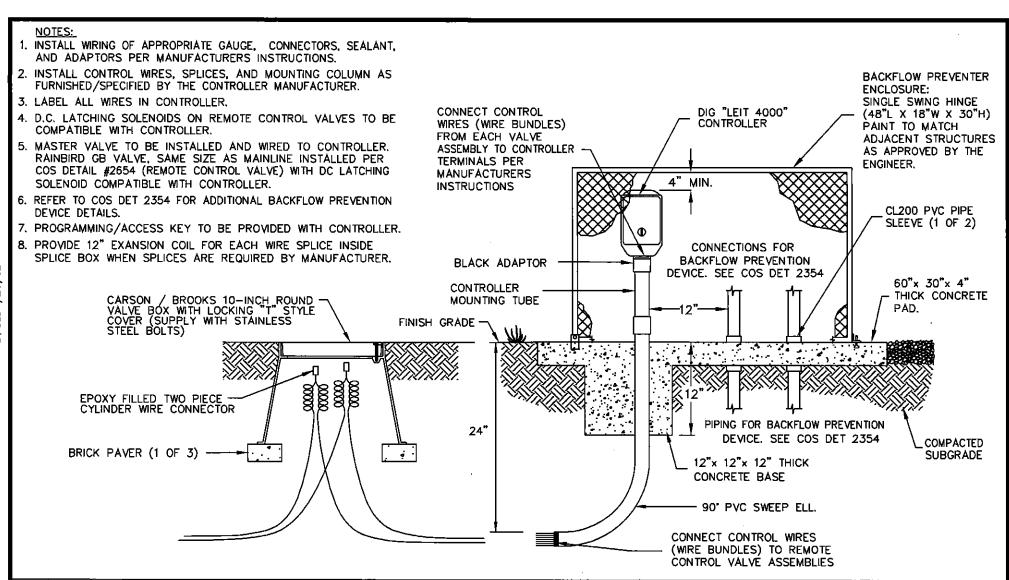
DETAIL	NO.
263	4

City of Scottsdale

APPROVED BY: Scottsdale Standards & Standard Details Specifications Committee

IRRINET WALL MOUNTED CONTROLLER





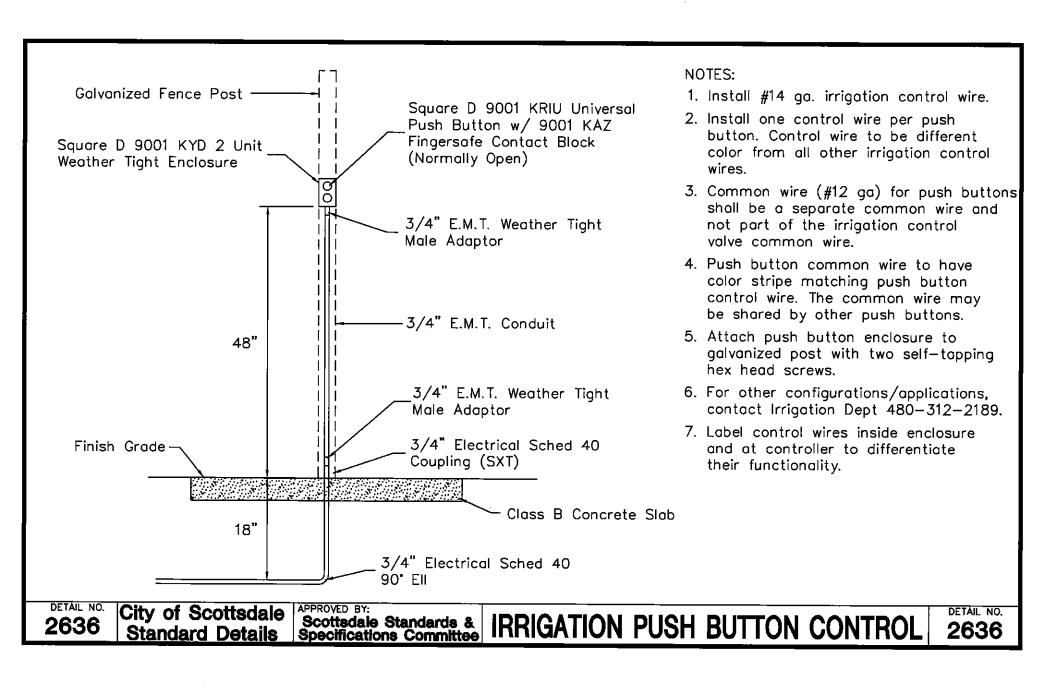
2635-2

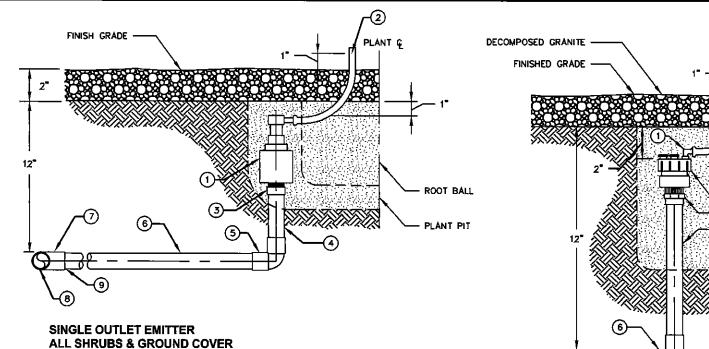
City of Scottsdale Standard Details

APPROVED BY:
Scottsdale Standards &
Specifications Committee

SOLAR CONTROLLER AND BACKFLOW PREVENTER ENCLOSURE

DETAIL NO. **2635-2**





DET. 2641-2 PLANT PIT PLANT Ç

VARIES-SEE EMITTER SCH.

NTS 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
- PVC CL 315 FOR 1/2" LATERALS, PVC CL 200 FOR LATERALS GREATER
- 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
- 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) SWIVEL OUTLET 90" ELBOW
- (2) 1/4" POLY FLEX HOSE EMITTER TUBING
- BOWSMITH ML 200 SERIES MULTI-PORT EMITTER OR APPROVED EQUAL. LOCATE ON UPHILL SIDE OF PLANT C
- 4) 1/2" PVC SCH 40 MALE ADAPTER
- AG. PRODUCTS 1/2" LP.S. FLEXIBLE VINYL PVC PIPE OR APPROVED EQUAL
- (6) 1/2" PVC SCH 40 FITTING

DETAIL NO. City of Scottsdale Standard Details 2641-1

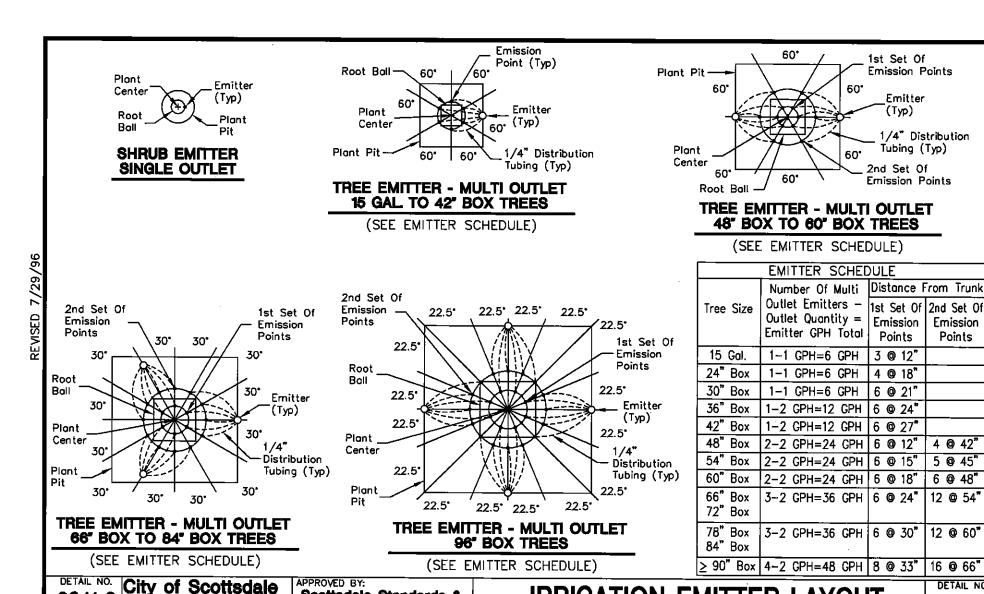
APPROVED BY:
Scottsdale Standards &
Specifications Committee

SINGLE & MULTI-OUTLET EMITTERS

DETAIL NO.

1/2" PVC SCH 40 FITTING

2641-1



Scottadale Standards &

Specifications Committee

Standard Details

Emission

Points

4 @ 42

5 @ 45

6 @ 48"

12 @ 54"

12 @ 60*

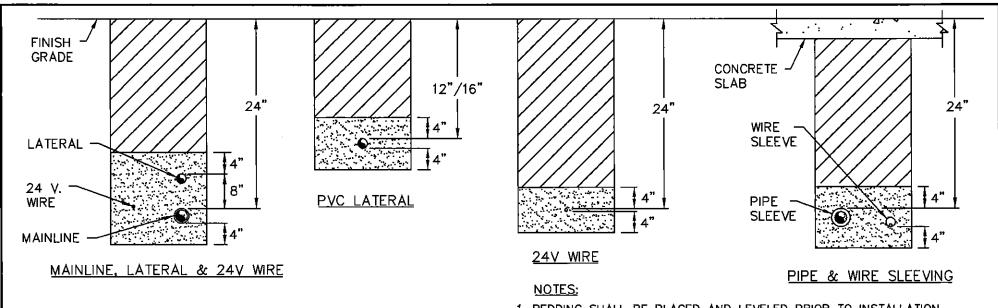
16 @ 66"

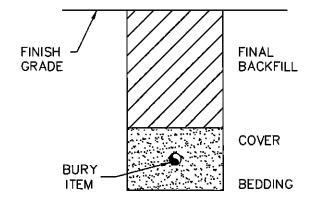
IRRIGATION EMITTER LAYOUT

DETAIL NO.

2641-2







EXCAVATED MATERIAL
SHALL BE FINELY
SCREENED WITH NO
ROCKS LARGER THAN 1".



BEDDING AND COVER MATERIAL SHALL BE TOPSOIL WITH NO ROCKS.

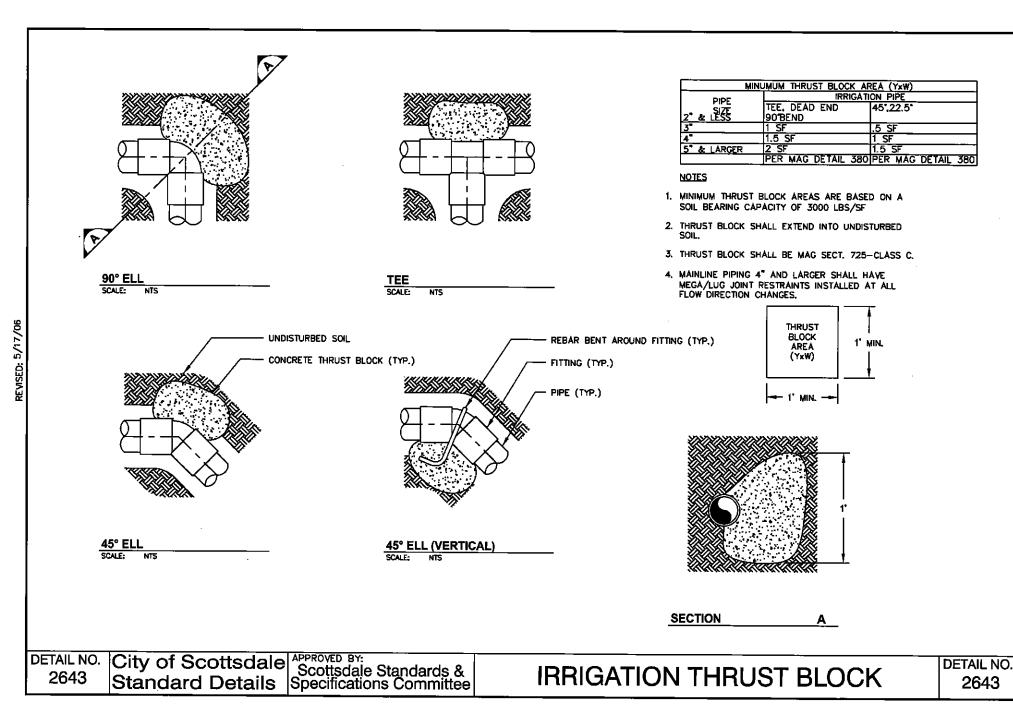
- BEDDING SHALL BE PLACED AND LEVELED PRIOR TO INSTALLATION OF BURY ITEM.
- 2. BACKFILL SHALL BE PLACED IN MAXIMUM 6" LIFTS.
- SLEEVE ALL PIPE AND WIRE SEPARATELY. SLEEVE 2 X DIA. OF PIPE. ONE PIPE PER SLEEVE. SLEEVES TO BE PRIMED AND SOLVENT WELDED
- 4. ALL PIPE TO BE INSTALLED PER MANUFACTURES SPECIFICATIONS WITH PIPE LABELING FACING UP FOR INSPECTION PURPOSES. PROVIDE A MINIMUM OF 2" CLEARANCE TO SIDE OF TRENCH AND BETWEEN PIPES.
- ALL 120 V. WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
- 6. TAPE AND BUNDLE IRRIGATION CONTROL WIRES EVERY 10'. PROVIDE LOOSE 20" LOOP AT ALL CHANGES OF DIRECTION OVER 30'.
- 7. ALL REMOTE CONTROL VALVE WIRING NOT INSTALLED WITH MAINLINE PIPE SHALL BE INSTALLED IN A MINIMUM 2" SCHEDULE 40 GREY ELECTRICAL CONDUIT OR AS APPROVED,
- 8. "NON-POTABLE" WARNING TAPE TO BE INSTALLED ON ALL PRESSURIZED MAINLINES 12" ABOVE THE PIPE.
- INSTALL ONE ADDITIONAL SLEEVE SIZED TO MATCH THE LARGEST REQUIRED SLEEVE WITH ENDS TAPED FOR FUTURE USE.
- SLEEVES TO EXTEND A MINIMUM OF 12" PAST HARDSCAPE PLANTERS, CURBS, SIDEWALKS, ETC.

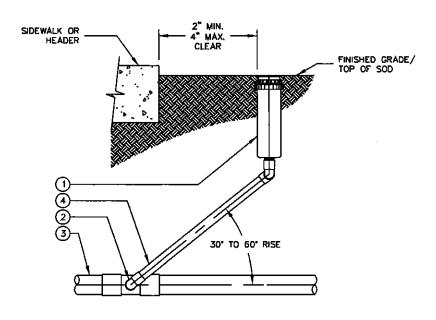
DETAIL NO. City of 2642 Stance

City of Scottsdale Standard Details

APPROVED BY:
Scottsdale Standards &
Specifications Committee

IRRIGATION TRENCHING





SWING JOINT ASSEMBLY ELEVATION

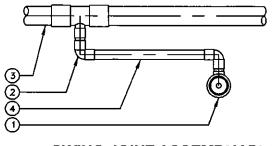
SCALE:

LIST OF MATERIALS

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

DETAIL NO.

2644



SWING JOINT ASSEMBLY PLAN

SCALE:

APPROVED BY:

Scottsdale Standards & Specifications Committee **ROTOR SPRINKLER ASSEMBLY**

DETAIL NO. 2644

City of Scottsdale Standard Details

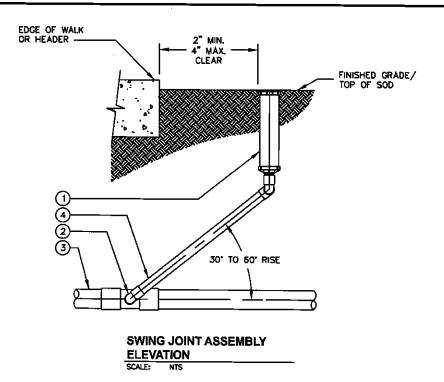
NOTES

1, SWING JOINT TO BE THE SAME SIZE

AS SPRINKLER HEAD INLET.

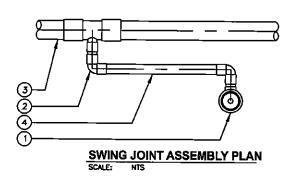
2. NO PRE-FAB SWING JOINTS

3. NO MARLEX FITTINGS



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



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NOTES

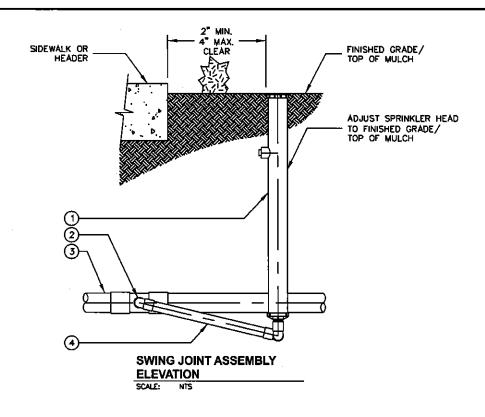
- SWING JOINT TO BE THE SAME SIZE AS SPRINKLER HEAD INLET.
- 2. NO PRE-FAB SWING JOINTS
- 3. NO MARLEX FITTINGS

DETAIL NO. 2645

City of Scottsdale Standard Details

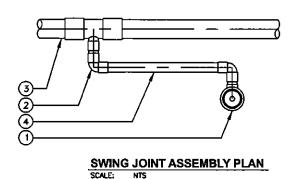
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POP-UP SPRINKLER ASSEMBLY



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

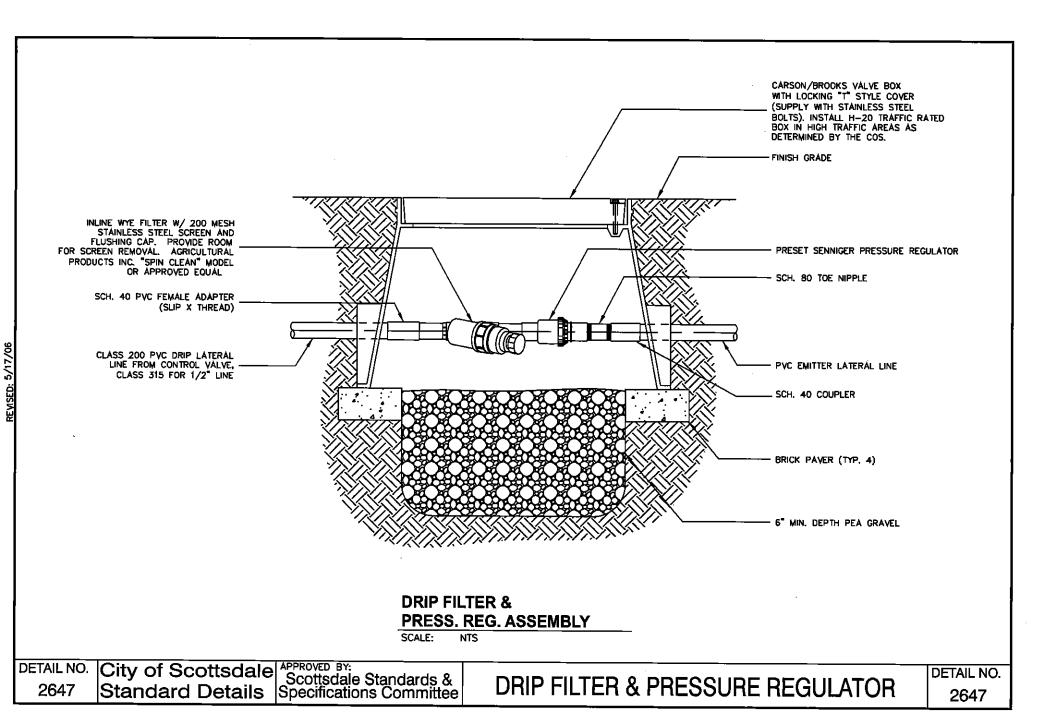
- 1. SWING JOINT TO BE THE SAME SIZE AS SPRINKLER HEAD INLET.
- SWING JOINT SHALL BE CONNECTED TO BOTTOM OUTLET.
- 3. NO PRE-FAB SWING JOINTS
- 4. NO MARLEX FITTINGS

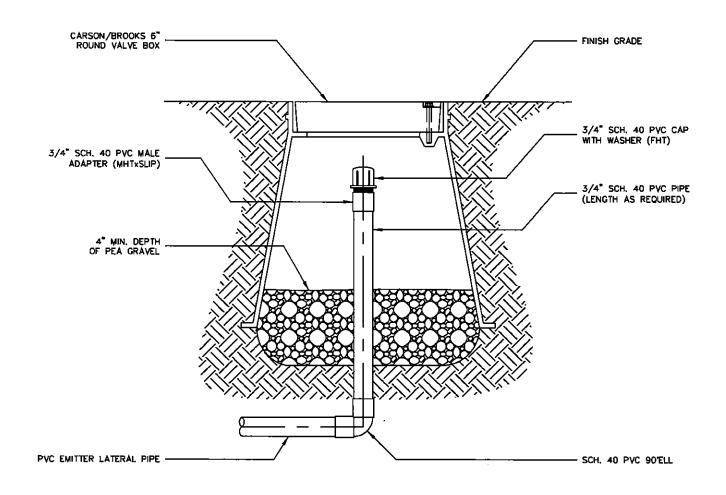
DETAIL NO. 2646

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SHRUB POP-UP SPRINKLER ASSEMBLY



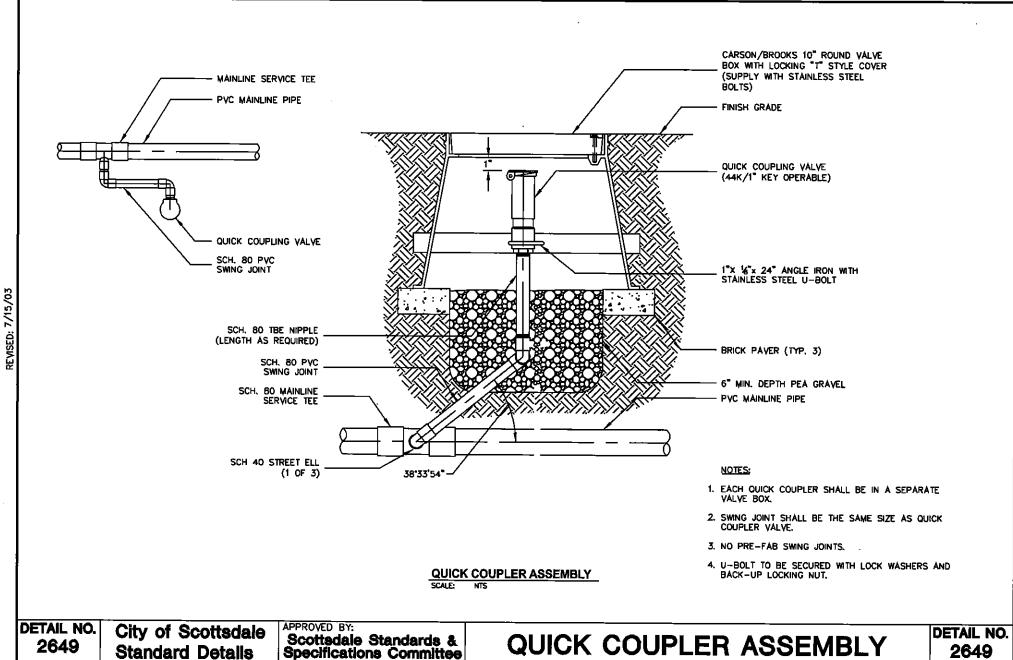


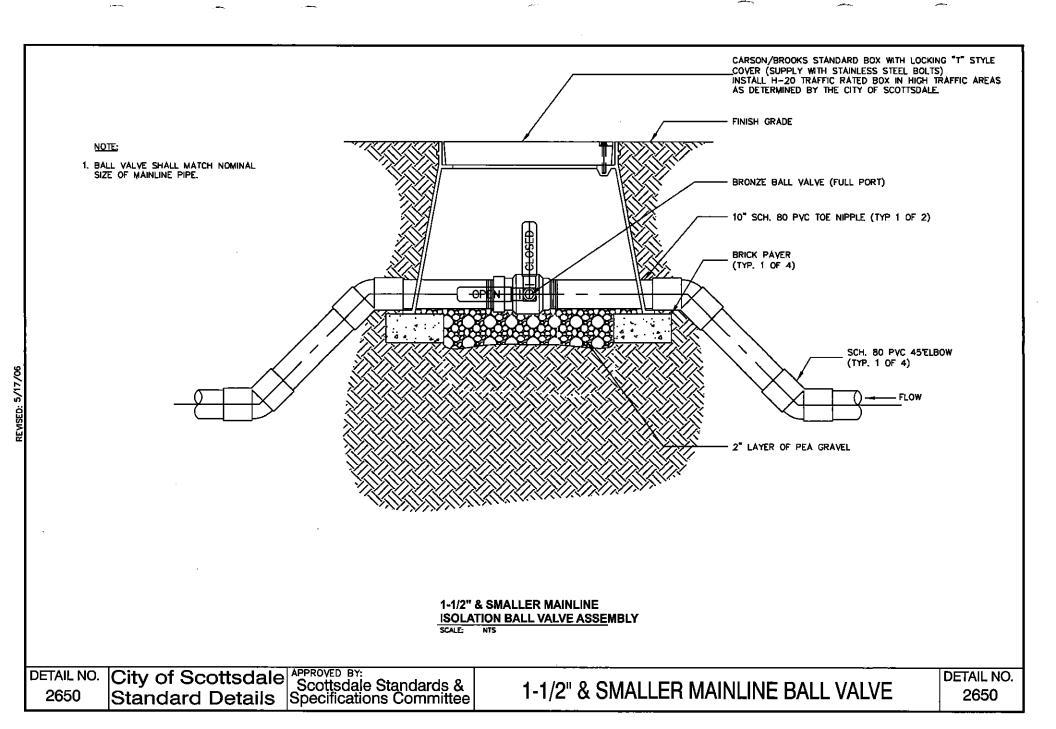
EMITTER FLUSH CAP ASSEMBLY

DETAIL NO. 2648 City of Scottsdale Standard Details APPROVED BY:

Scottsdale Standards & Specifications Committee

EMITTER FLUSH CAP ASSEMBLY

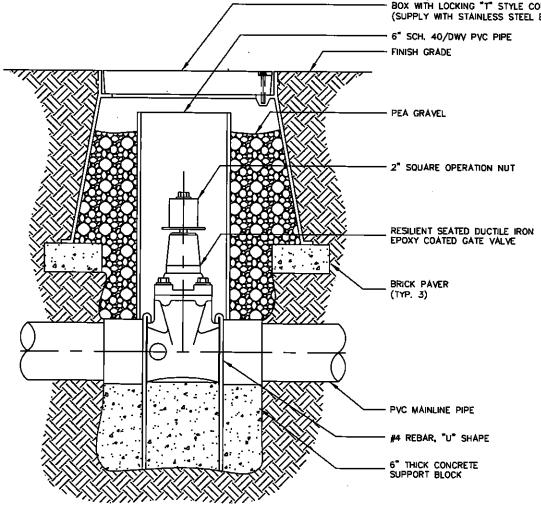




CARSON/BROOKS 10" ROUND VALVE BOX WITH LOCKING "T" STYLE COVER (SUPPLY WITH STAINLESS STEEL BOLTS)

NOTE:

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



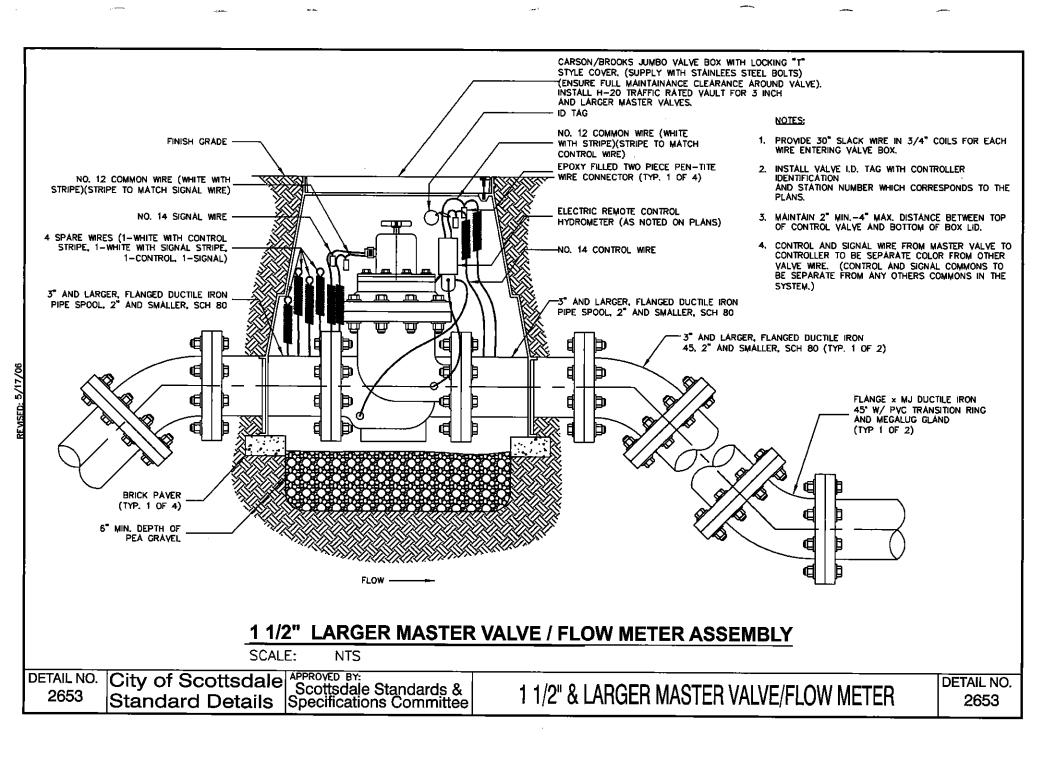
2" & LARGER MAINLINE ISOLATION **GATE VALVE ASSEMBLY** SCALE: NTS

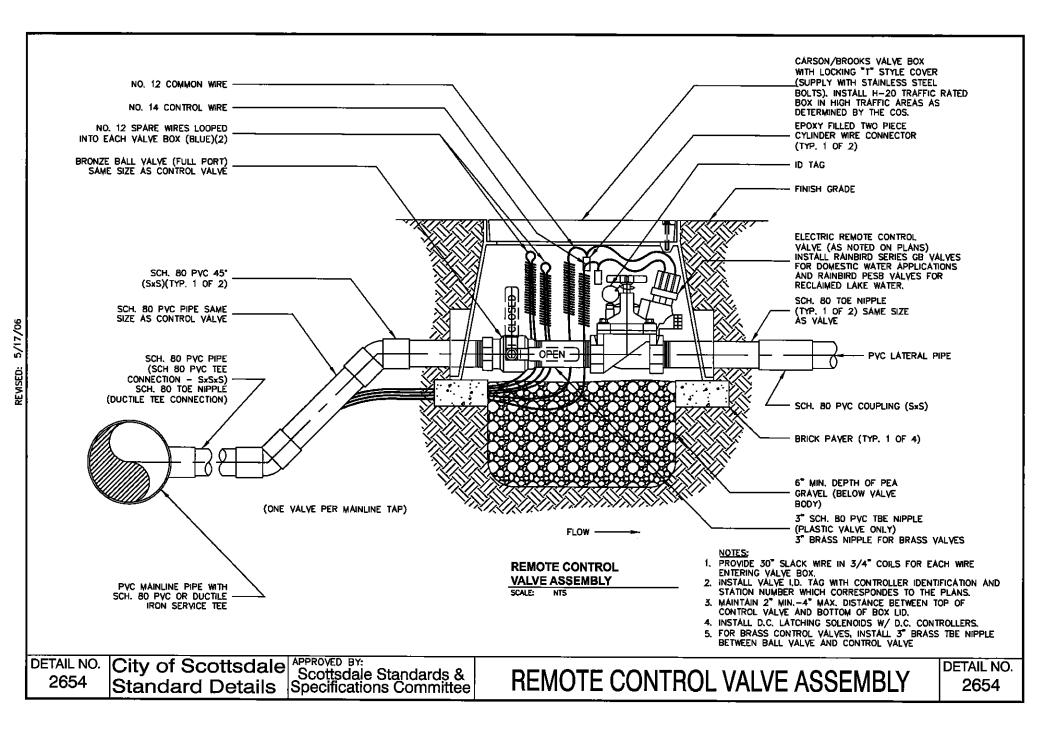
DETAIL NO. 2651

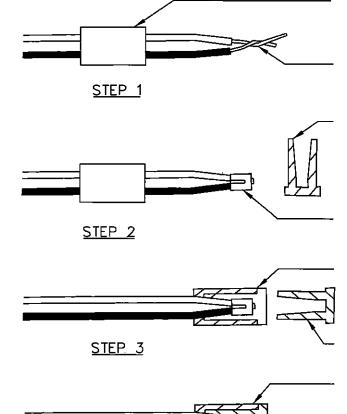
City of Scottsdale Standard Details

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2" & LARGER MAINLINE ISOLATION GATE VALVE







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

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.

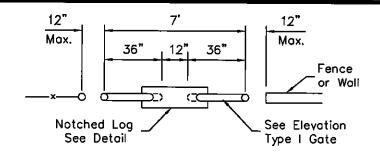
DRI-SPLICE TYPE WIRE

DETAIL NO. City of Scottsdale 2655 Standard Details

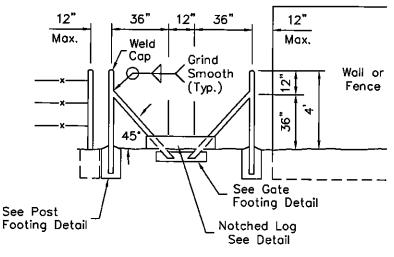
STEP 4

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TYPICAL IRRIGATION WIRE CONNECTION



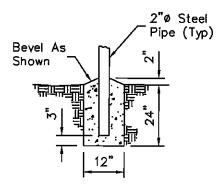
TYPE I GATE w/ NOTCHED LOG



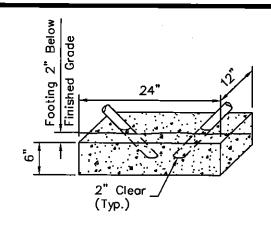
ELEVATION TYPE I GATE

2680-1 City of Scottsdale Standard Details

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Scottsdale Standards &
Specifications Committee



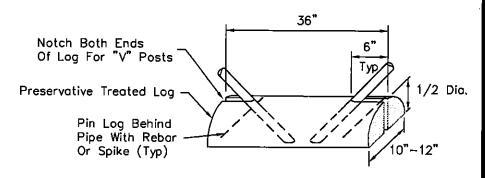
POST FOOTING DETAIL



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.



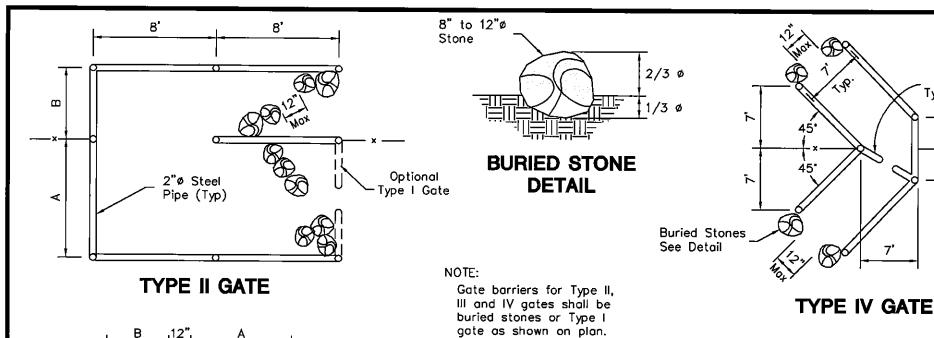
NOTCHED LOG DETAIL

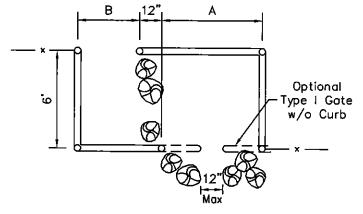
TRAIL ACCESS GATES

2680-1

Standard Details

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TYPE III GATE

TYPE II and III
GATE DIMENSIONS

GATE BARRIER A B
Type I 7' 4'

Buried Rocks

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

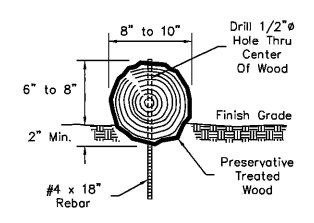
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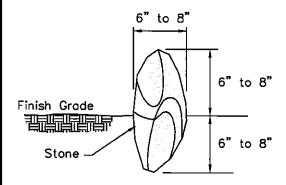
TRAIL ACCESS GATES

DETAIL NO. 2680-2

Optional Type | Gate



REBAR SECURED WOOD BARS



Stagger Stones To Provide A Continuous Water Bar

STONE BARS

City of Scottsdale 2681 Standard Details

APPROVED BY:

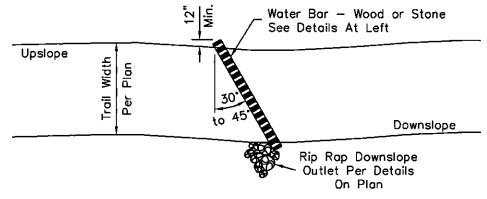
Scottsdale Standards & Specifications Committee

Double Wrap Wood With 9 Gauge Wire And 8" to 10" Secure To Stake to 4" 6" to 8" Finish Grade 2" Min. 2"x 2"x 18" Redwood Preservative Stake Treated Wood

WIRE SECURED WOOD BARS

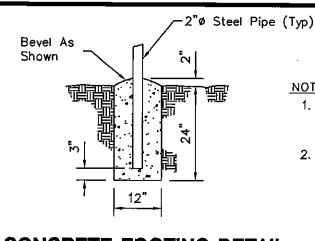
NOTES:

- 1. Provide water bars at a moximum 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.



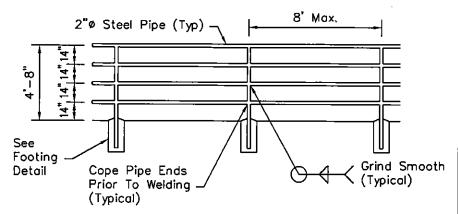
WATER BARS **PLAN**

TRAIL WATER BARS



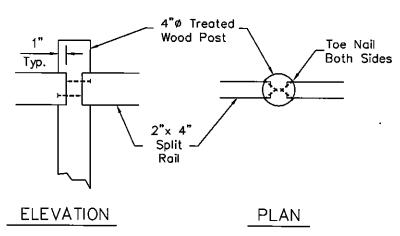
NOTES:

- 1. Paint Rails Per ADOT Specifications, Color Per Plan.
- 2. Treated Wood Posts Per MAG Section 779.



STEEL RAIL

CONCRETE FOOTING DETAIL



4"ø Treated See Post Wood Post Connection Detail 2"X 4" Treated Split Rail Optional Additional Horizontal Rail -2 Max. - Spaced Equally. Dig 12"ø Post Hole, **Bockfill With Native** Material And Compact To Secure Post

POST CONNECTION DETAIL

2682

City of Scottsdale Standard Details

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POST AND RAIL TRAIL SAFETY BARRIERS

DETAIL NO.

2682

