City of Scottsdale

2003

SUPPLEMENTAL STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION

REVISED 8/11/03

2100 Series
General Information

2200 Series
Street Information

2200 Series
Street Information Cont'd

2300 Series
Water Information

NOTE: * - Indicates New Or Revised Details For 2003 Supplement.

2300 Series
Water Information Cont'd

2400 Series
Sanitary Sewer Information

2500 Series
Irrigation & Storm Drain Information

2600 Series
Landscape Information

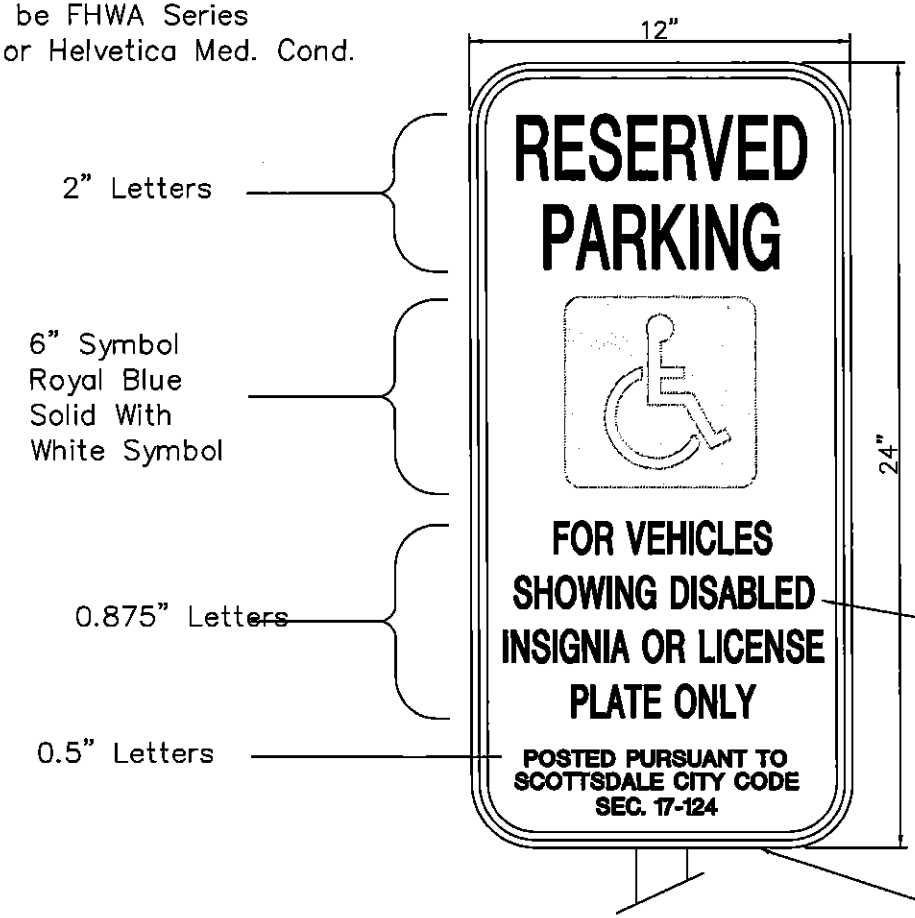
2600 Series
Landscape Information

NOTE: * - Indicates New Or Revised Details For 2003 Supplement.

REVISED 8/11/03

NOTE:

Lettering shall be FHWA Series "B" alphabet, or Helvetica Med. Cond.



MOUNTING OPTIONS (SEE PLANS)

A) Flexible P.E. Post With Surface Mount Base – Epoxy To Pavement Surface

B) Perforated Galvanized Tubing Per COS Detail 2131. Install In Landscape Areas Only.

C) Surface Mount To Structure

D) Mount As Detailed On Plans

Green Borders and Text, and Blue Symbol on White Retroreflective Background (Typ.)
Background: Super Engineer Grade Or High Intensity Sheeting
Copy: Same As Above
Substrate: 0.080 Gauge Treated Aluminum

Bottom Of Sign Shall Be Not Less Than 3 Feet Nor More Than 6 Feet Above Finish Surface

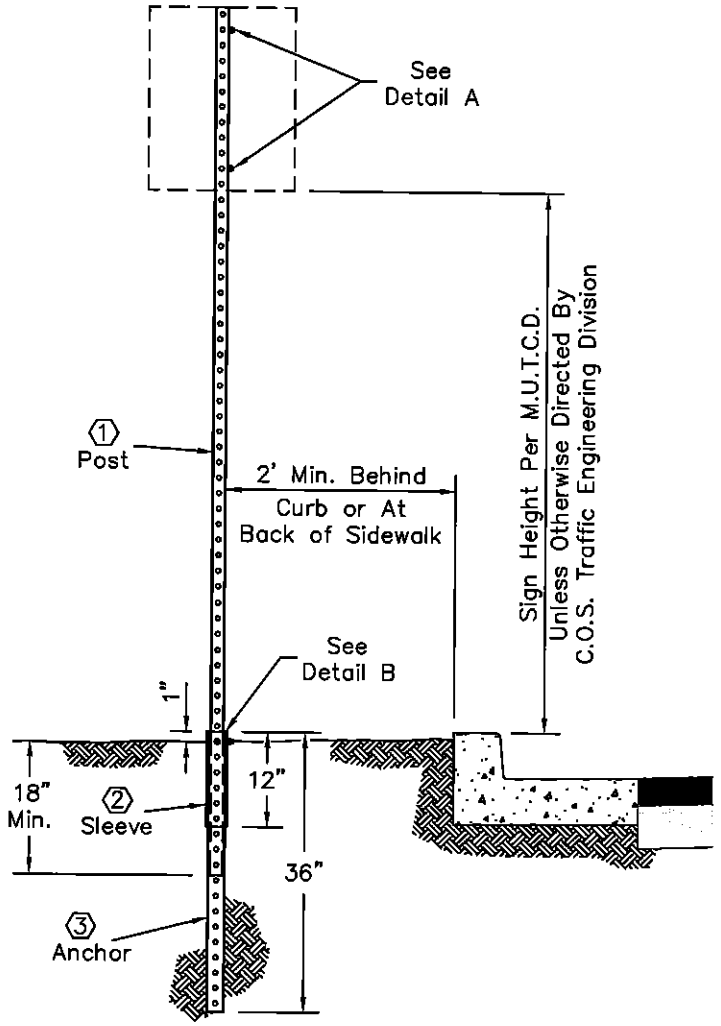
ACCESSIBLE SIGNAGE

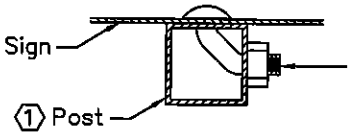
One Sign At Each Accessible Parking Stall

REVISED 2/26/01

DETAIL NO. 2124	City of Scottsdale Standard Details	ACCESSIBLE SIGNAGE	DETAIL NO. 2124

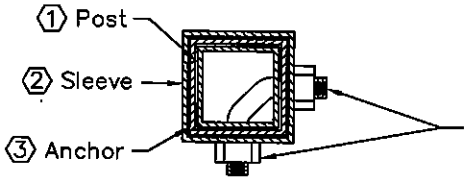
REVISED 1/3/94





$1\frac{11}{32}$" x $3\frac{1}{32}$" Thrd x $\frac{5}{16}$" ø Corner Bolt With $\frac{5}{16}$" Self Locking Nut

Detail A
Sign Mounting



$1\frac{9}{16}$" x $1\frac{3}{16}$" Thrd Each End x $\frac{5}{16}$" ø Corner Bolt With $\frac{5}{16}$" Self Locking Nuts

Detail B
Anchor Assembly

Legend

1 Post – 1–3/4" x 1–3/4" Square Perforated 0.105" Galvanized Steel Tubing (Green Finish)

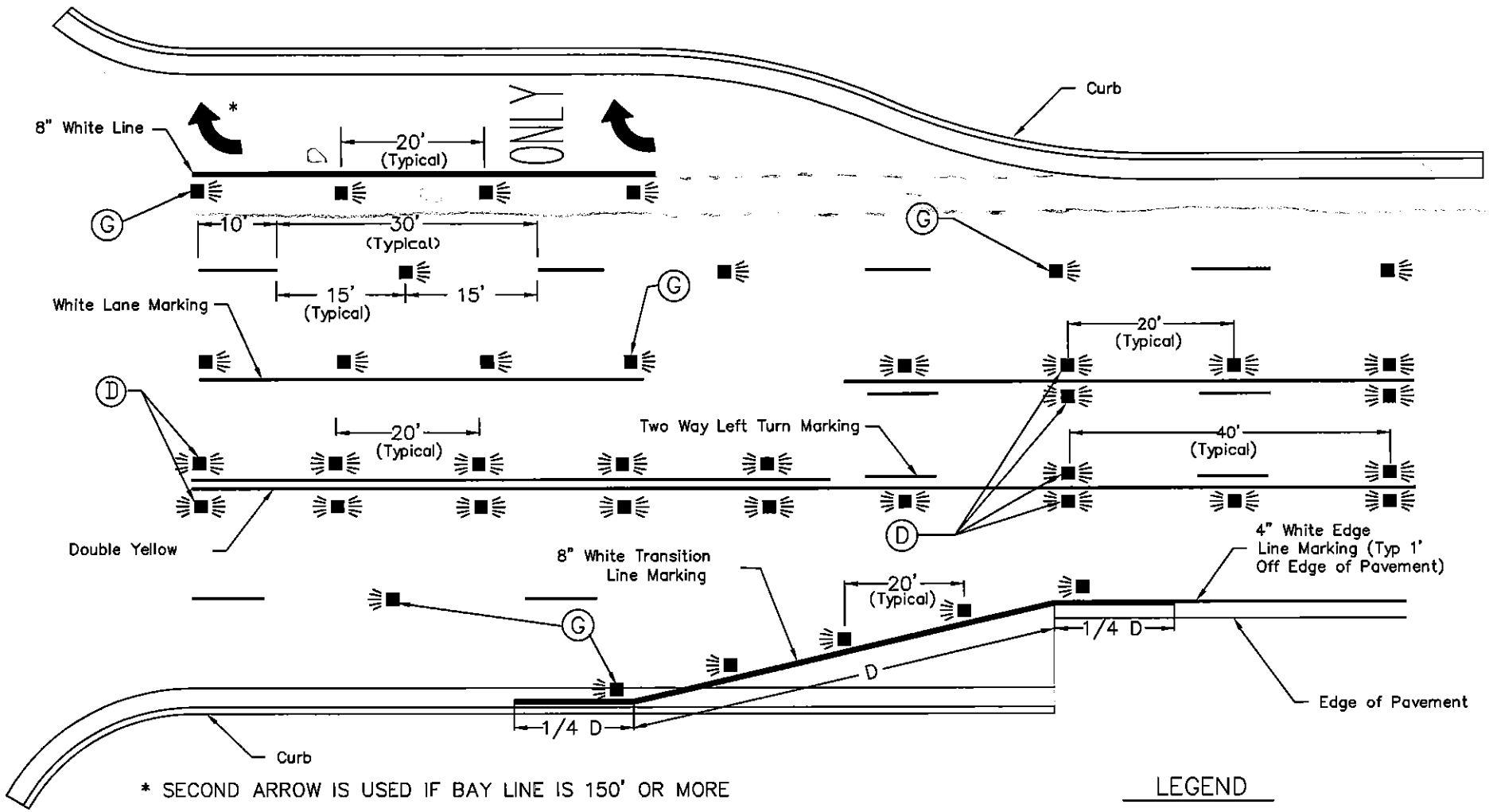
2 Sleeve – 2–1/4" x 2–1/4" x 12", Square Perforated 0.105 Galvanized Steel Tubing (Green Finish)

3 Anchor – 2" x 2" x 36", Square Perforated 0.105" Galvanized Steel Tubing (Green Finish)

NOTE:

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

DETAIL NO. 2131	City of Scottsdale Standard Details	APPROVED BY:	SIGN POST INSTALLATION	DETAIL NO. 2131



* SECOND ARROW IS USED IF BAY LINE IS 150' OR MORE

REFERENCE ADOT STD DRAWINGS 4-M-2.03 AND 4-M-2.04

SEE STANDARD DETAIL 2363 FOR FIRE HYDRANT MARKERS

LEGEND

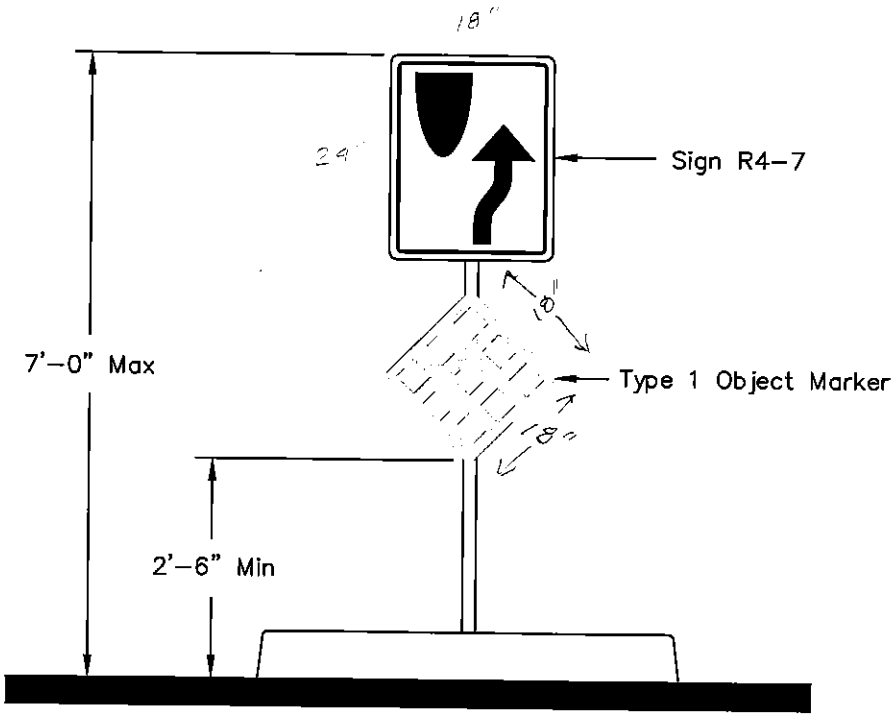
(G) – TYPE "G" WHITE, ONE WAY REFLECTIVE

(D) – TYPE "D" YELLOW, TWO WAY REFLECTIVE

DETAIL NO. 2132 | City of Scottsdale Standard Details

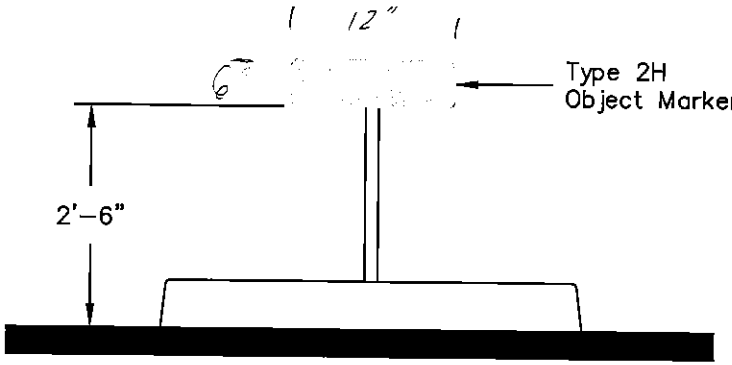
RAISED PAVEMENT MARKER LAYOUT

DETAIL NO. 2132



TYPE "A"

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



TYPE "B"

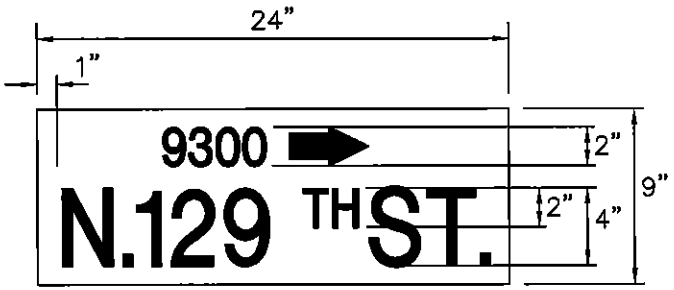
(ALL OTHER MEDIANS)

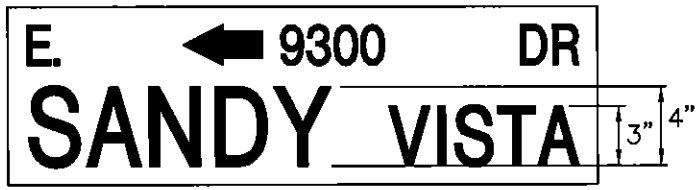
NOTES:

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

DETAIL NO. 2133	City of Scottsdale Standard Details	MEDIAN NOSE SIGNING-TYPE A&B	DETAIL NO. 2133

Revised 2/28/01



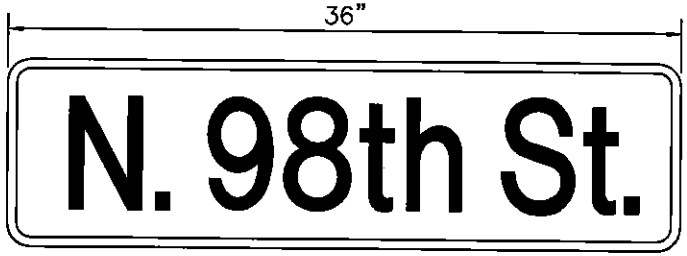


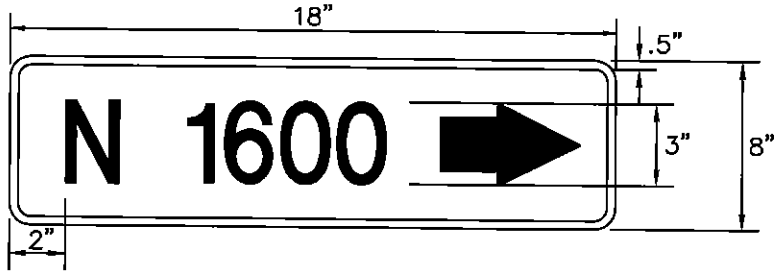
TYPE A SIGNS

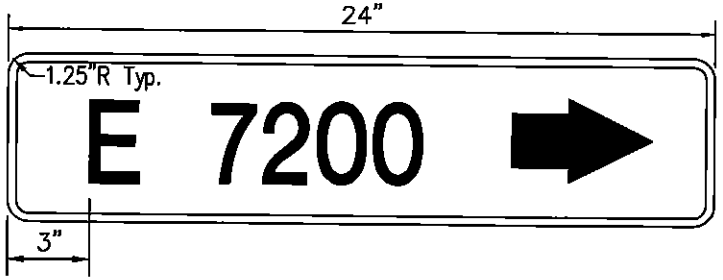
Type IIA Super Engineering Grade
Green/White (2 Sides)

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

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







TYPE B SIGNS

Type III High Intensity Grade
Green/White (2 Sides)
Blank Sizes: 10"x 36", 10"x 42"

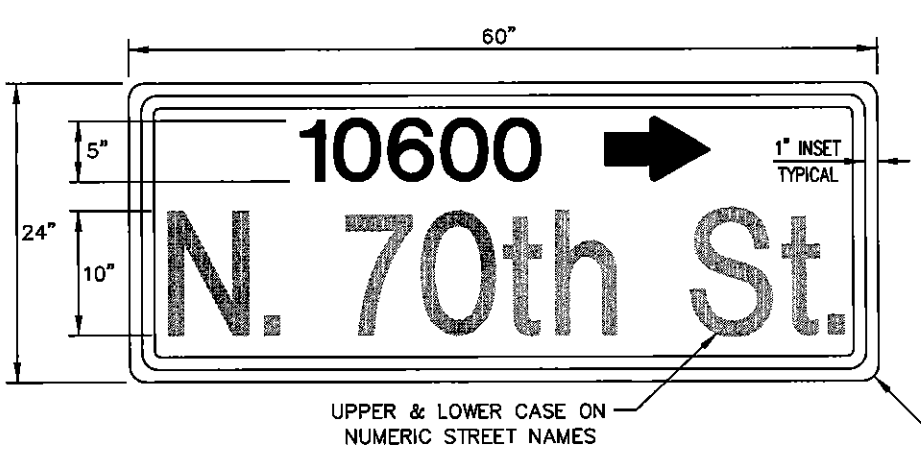
Intended Usage: Type "B" Street Name Signs shall be used where a Residential Street or a Local Collector Street interesects with a street with a classification of Major Collector or larger. See the COS General Plan for Street Designations.

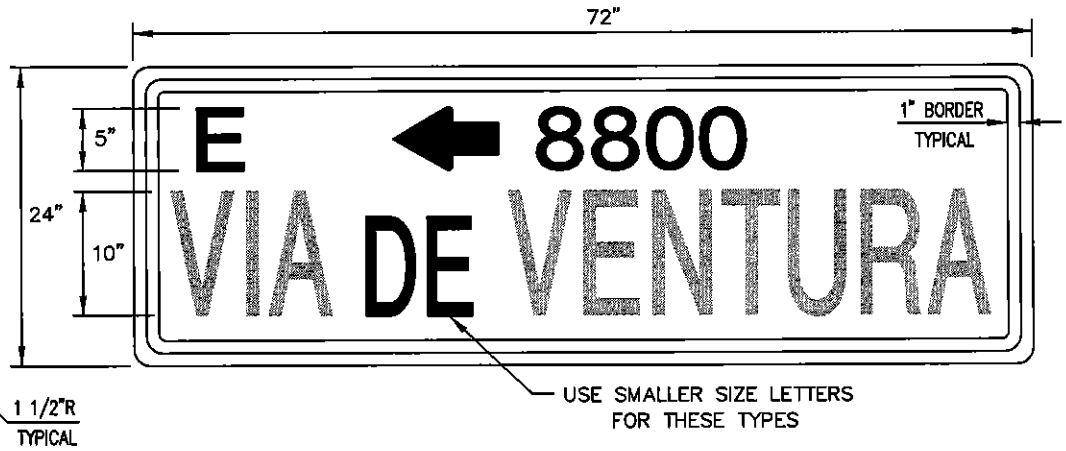
TYPE B BLOCK NUMBERS

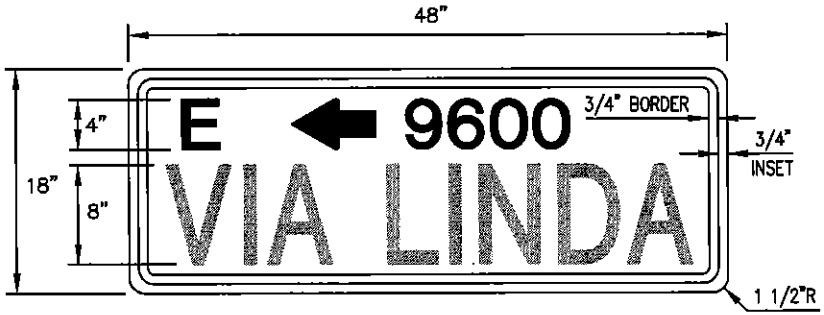
Type III High Intensity Grade
Green/White (1 Side)
Blank Sizes: 8"x 18", 8"x 24"

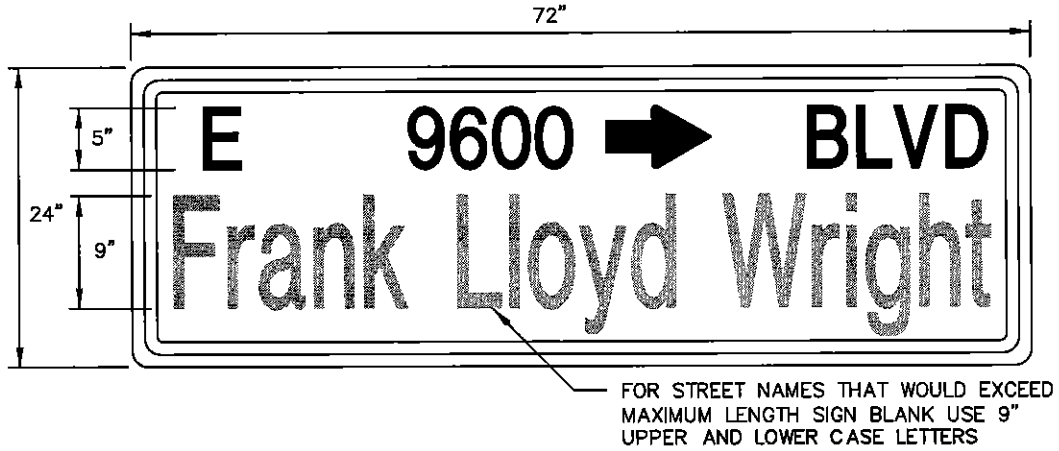
Type "B" Block Numbers to be mounted with Type "B" Street Name Signs.

DETAIL NO. 2134-2	City of Scottsdale Standard Details	STREET NAME SIGNS - TYPE B	DETAIL NO. 2134-2









18" METRO SIGNS

Diamond Grade Intensity – Green/White (1 Side)
Typestyle = Highway Gothic, Modify C or D
Blank Sizes: 18"x 48", 18"x 60", 18" x 72"

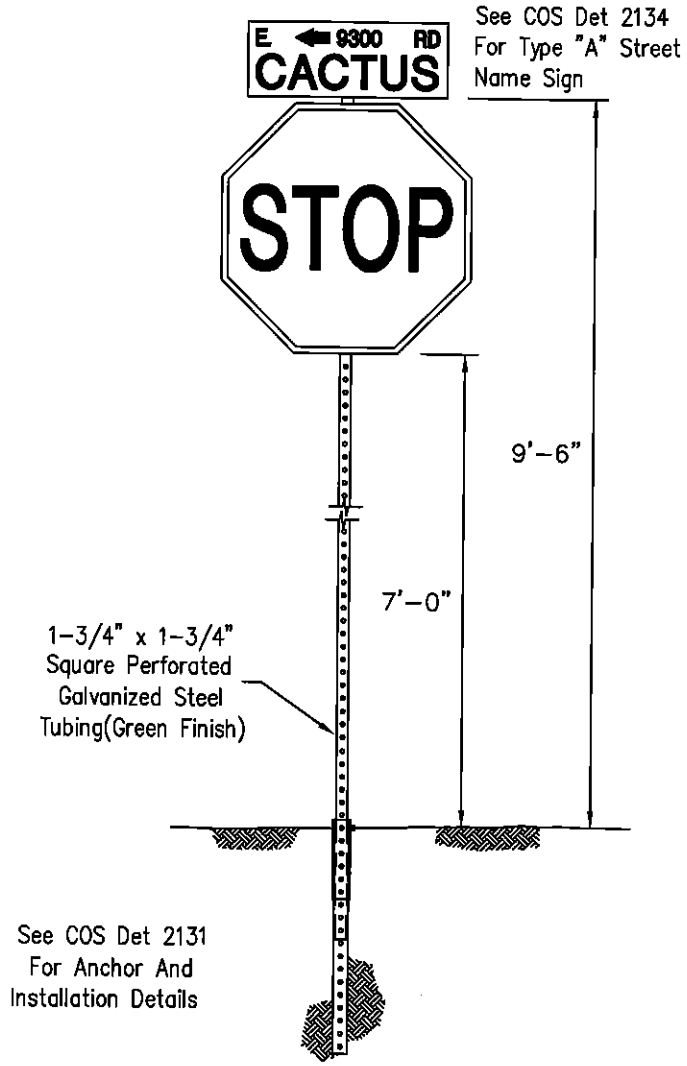
Intended Usage: 18" Metro Street Name Signs shall be used on minor roads with a speed limit of 35MPH or lower. See the COS General Plan for Street Designations.

24" METRO SIGNS

Diamond Grade Intensity – Green/White (1 Side)
Typestyle = Highway Gothic, Modify C or D
Blank Sizes: 24"x 60", 24"x 72", 24" x 84"

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.

DETAIL NO. 2134-3	City of Scottsdale Standard Details	STREET NAME SIGNS - 18" AND 24" METRO	DETAIL NO. 2134-3



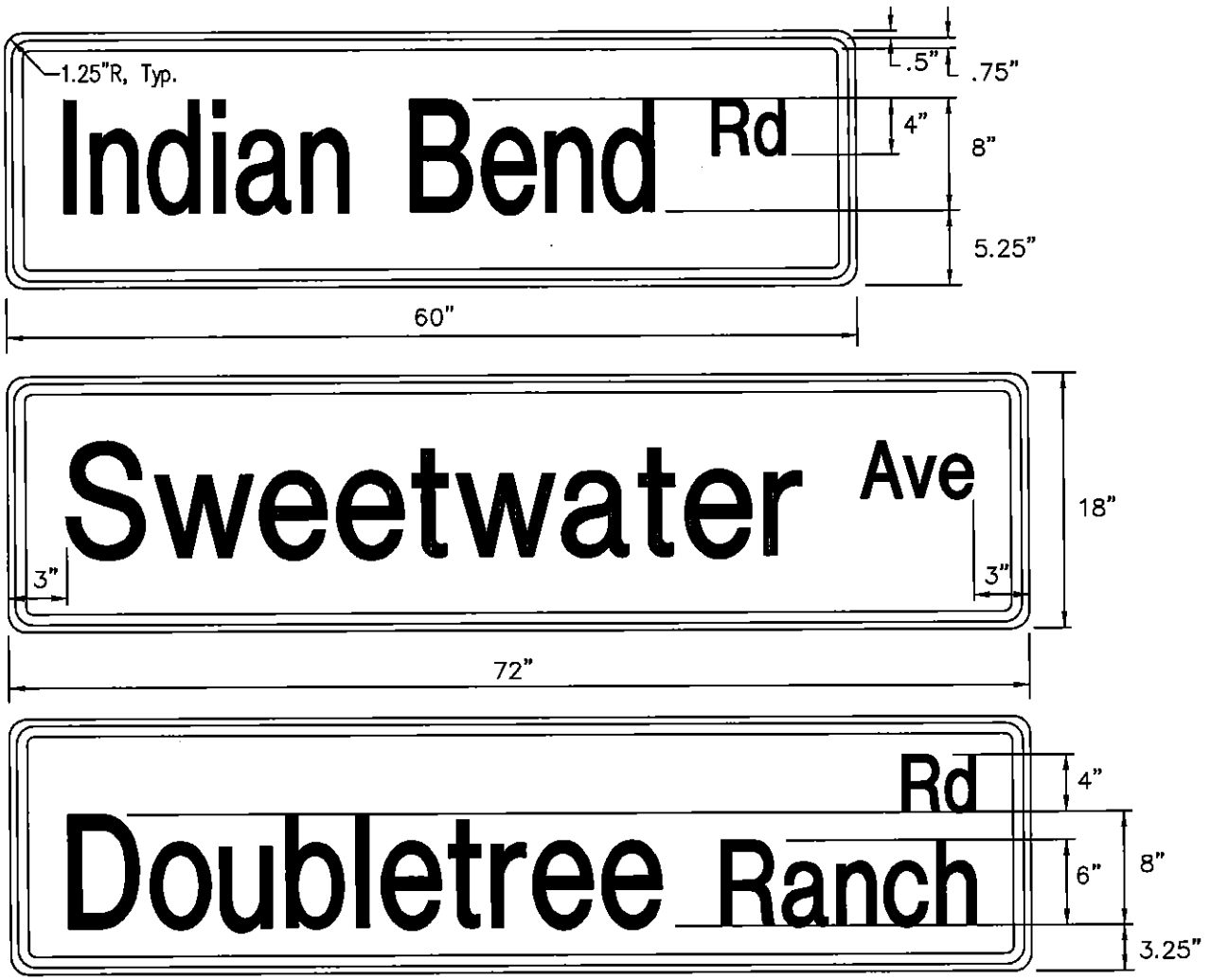
NOTES:

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

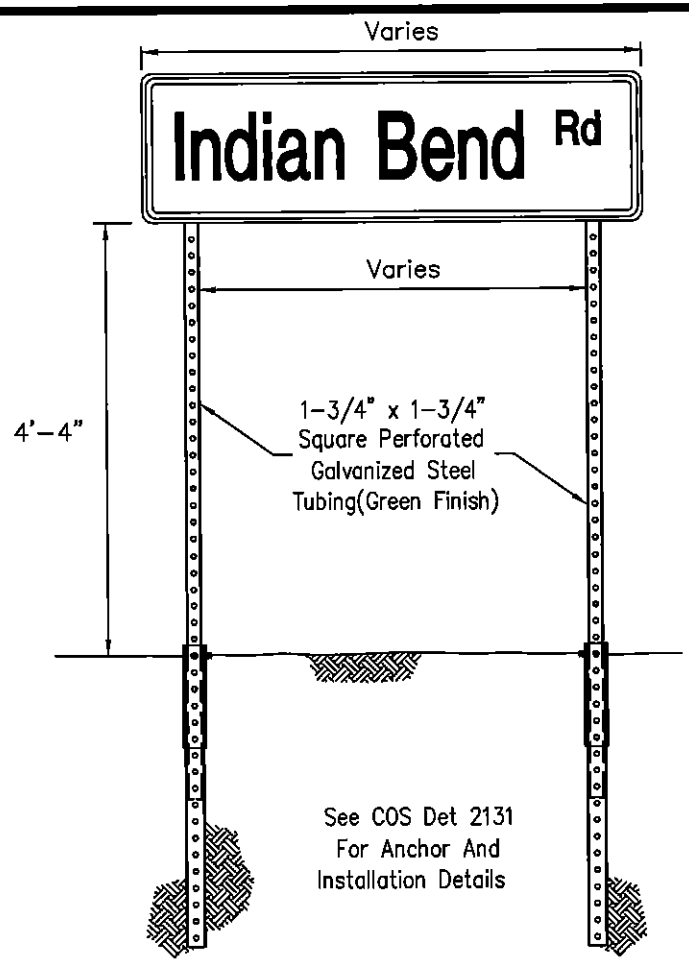
When no stop sign is required the street name sign is mounted at 9 feet 6 inches.

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

DETAIL NO. 2135	City of Scottsdale Standard Details	STREET NAME SIGN INSTALLATION	DETAIL NO. 2135

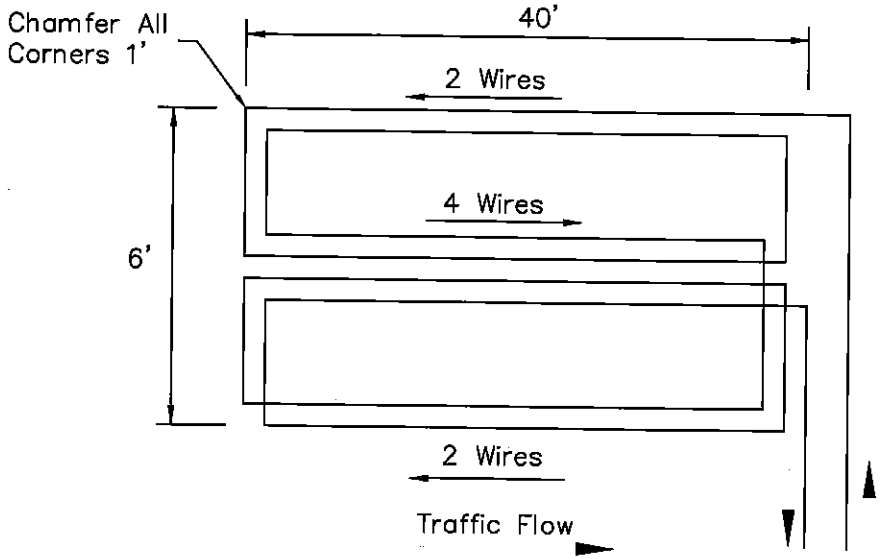


Type III High Intensity, Green/White (1 Side)
Blank Sizes: 18"x 48", 18"x 60", 18"x 72"

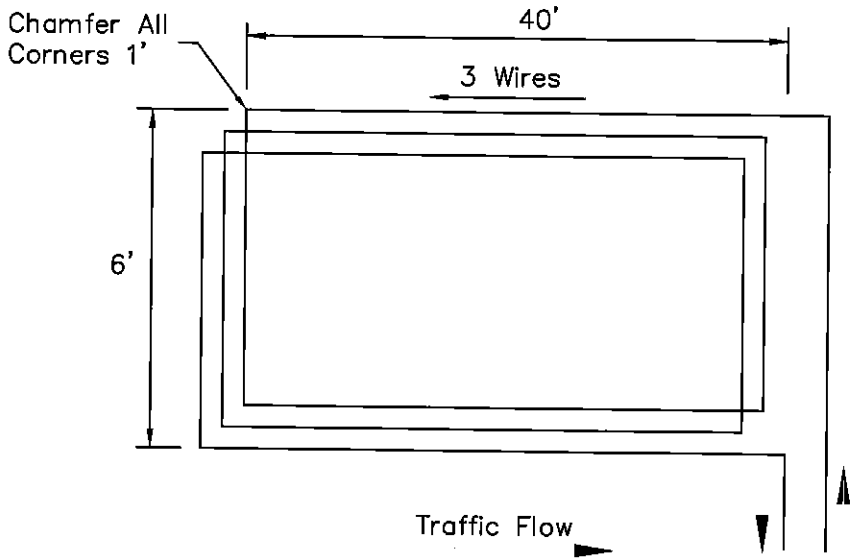


Intended Usage: To be used in advance of the specified street where an unsignalized collector street intersects a minor/major arterial or expressway. Location determined by multiplying the posted speed limit by 10. Sign is typically placed in a median when available, otherwise on the right hand side of the road.

DETAIL NO. 2136	City of Scottsdale Standard Details	ADVANCE STREET NAME SIGNS	DETAIL NO. 2136



QUADRUPOLE LOOP DETECTOR
For Left Turn Lanes Only

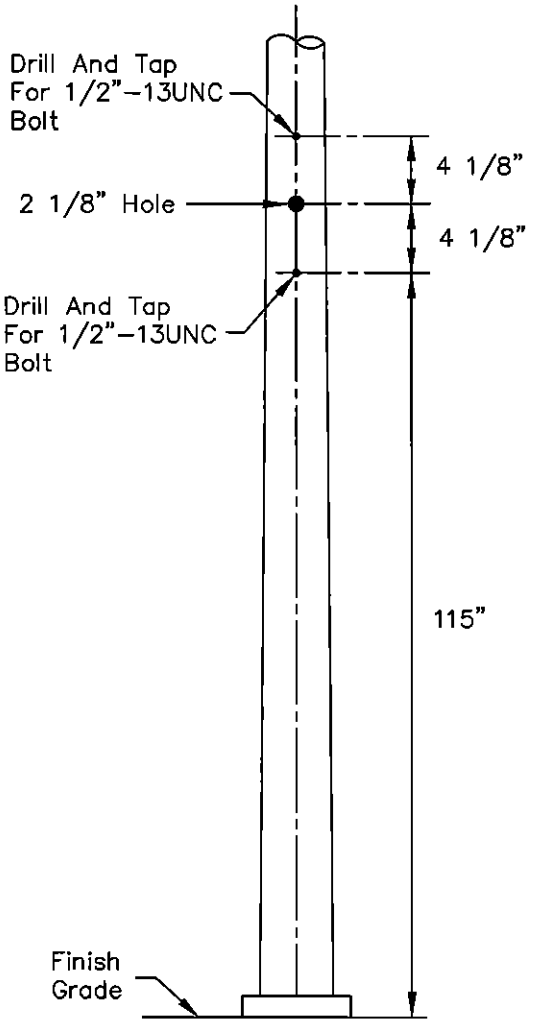


STANDARD LOOP DETECTOR

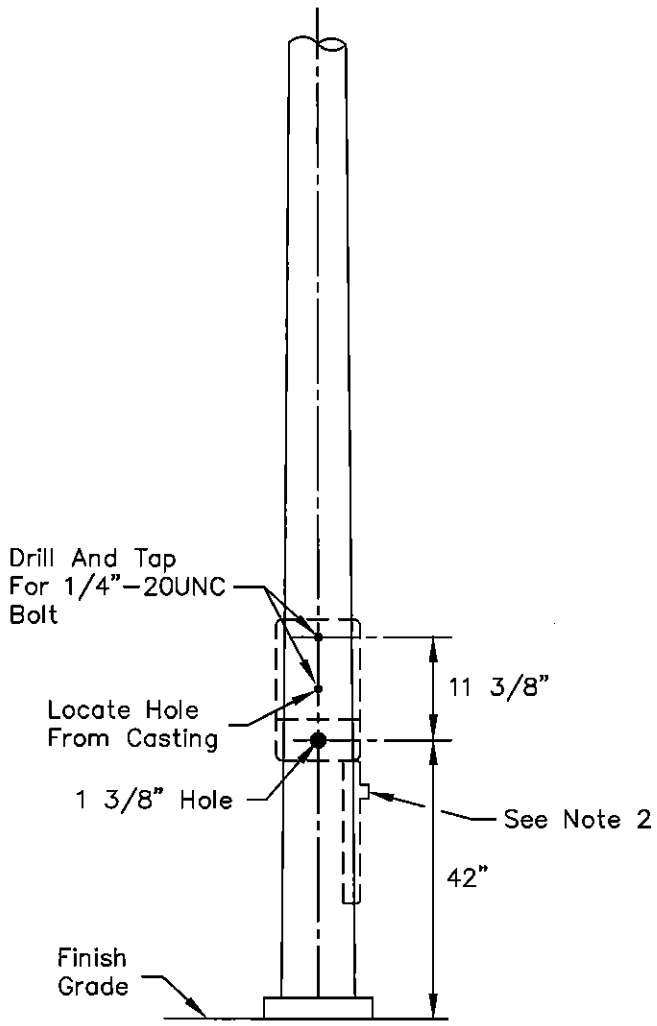
NOTES:

1. All loop detectors shall be wire–in–duct type wire. (Detect–a–Duct or approved equivalent, #14 stranded inside a 1/4" PVC tubing (IMSA 51–5).
2. All loop detectors shall be centered in the middle of the applicable traffic lane. Loop shall be sufficiently dimensioned on the plans. Loop detectors shall extend five feet into the crosswalk unless directed otherwise by the Traffic Engineering Department.
3. A rectangular loop with 3 turns (6 feet x 40 feet) shall be used for all through lanes.
4. A quadrupole loop with 2 outside turns and 4 inside turns (6 feet x 40 feet) shall be used in all exclusive left–turn lanes. (Wire in middle cut shall run the same direction.
5. Loop detectors shall not be installed in exclusive right turn lanes.
6. The location of permanent count detector loops shall be specified by the Traffic Engineering Department. Count detector loops shall consist of a minimum of 4 turns (6 feet x 6 feet).
7. Pre–formed loop detectors conforming to the latest ADOT specifications shall be used under decorative pavement, "pavers", concrete, or other "special" roadway surfaces, or as directed by the Traffic Engineering Department.
8. Lead–in cable between loop wire and controller shall be latest ADOT specification or approved equivalent (IMSA 50–2).
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 pavement lift (if part of a paving project).
11. Loops shall be inspected and tested prior to acceptance by the City.
12. See ADOT TS 7–1 for installation details.

DETAIL NO. 2137	City of Scottsdale Standard Details	LOOP DETECTORS	DETAIL NO. 2137



SIDE MOUNT DRILLING DETAIL

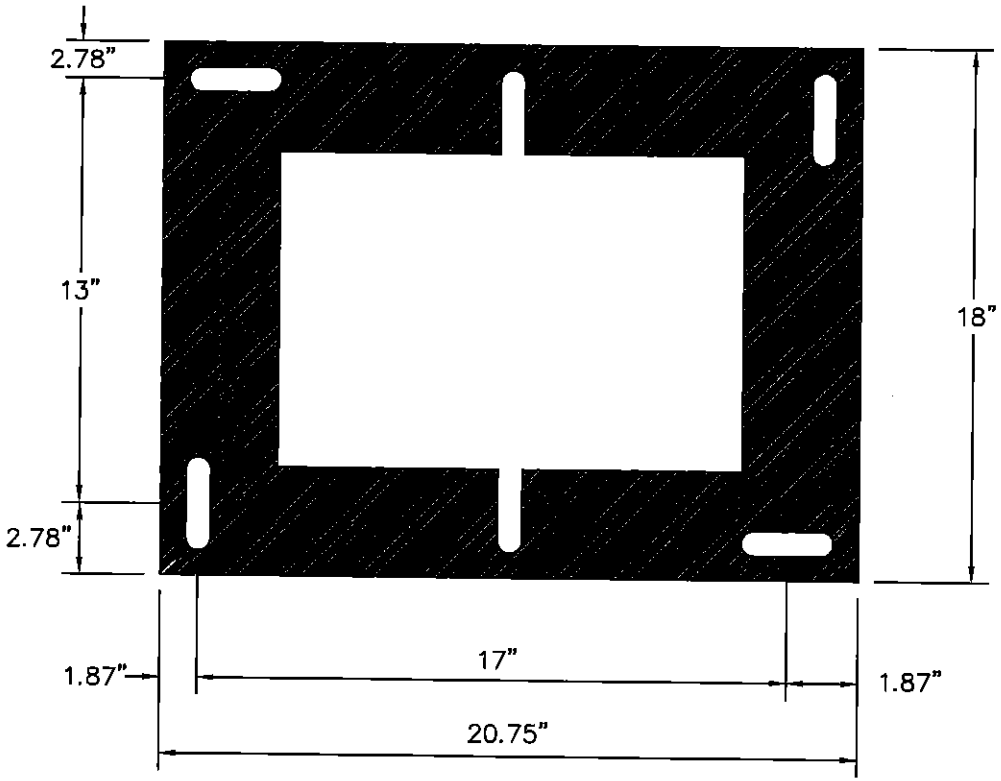


PUSH BUTTON DRILLING DETAIL

NOTES:

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

DETAIL NO. 2138	City of Scottsdale Standard Details	**SIGNAL POLE DRILLING DETAIL**	DETAIL NO. 2138



INSIDE VIEW OF BOTH
SIDES OF BASE EXTENDER

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

DETAIL NO. 2139	City of Scottsdale Standard Details	TRAFFIC SIGNAL CONTROLLER CABINET BASE EXTENDER	DETAIL NO. 2139

LOOP AND PEDESTRIAN PUSH BUTTON INPUTS

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

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

MAIN DIRECTIONS

Direction	Color
WB	Blue
EB	Green
NB	Red
SB	Yellow

LEFT TURN DIRECTIONS (Main Color + White)

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

RIGHT TURN DIRECTIONS (Main Color + Black)

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

Color Of Wire For Power/Neutrals/Pushbuttons

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

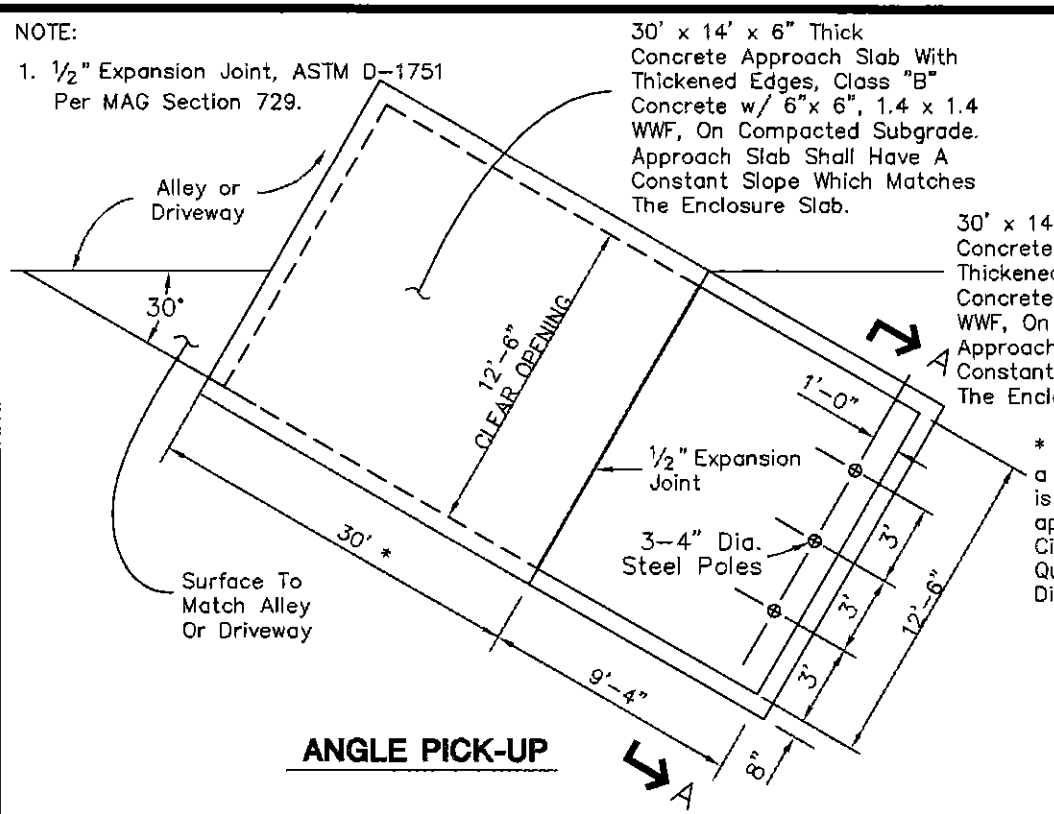
WBLT = West Bound Left Turn and shall be the phase for vehicles facing west and turning to south
EBLT = East Bound Left Turn and shall be the phase for vehicles facing east and turning to north
NBLT = North Bound Left Turn and shall be the phase for vehicles facing north and turning to west
SBLT = South 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. 2141 | City of Scottsdale Standard Details | # TAPE COLOR CODES FOR TRAFFIC SIGNAL WIRING | DETAIL NO. 2141

NOTE:

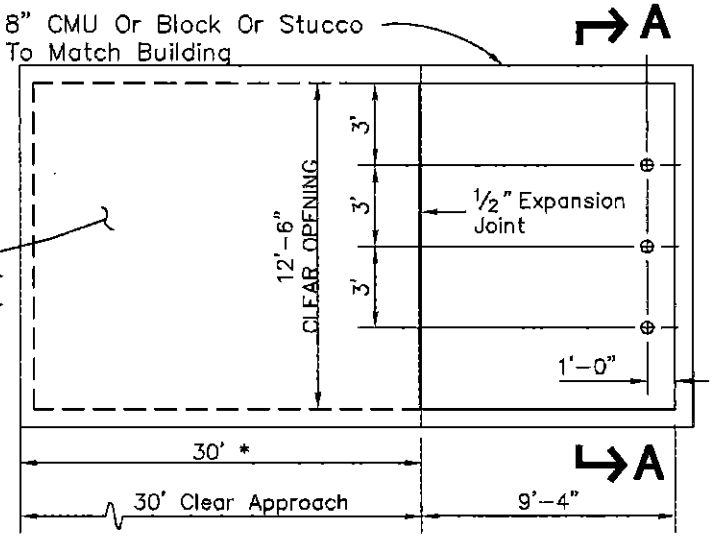
1. ½" Expansion Joint, ASTM D-1751 Per MAG Section 729.



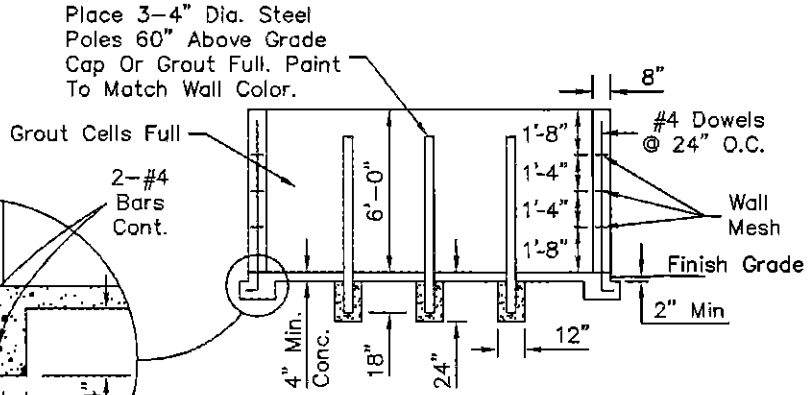
30' x 14' x 6" Thick Concrete Approach Slab With Thickened Edges, Class "B" Concrete w/ 6"x 6", 1.4 x 1.4 WWF, On Compacted Subgrade. Approach Slab Shall Have A Constant Slope Which Matches The Enclosure Slab.

* In locations where a 30' approach slab is not possible, approval from the City of Scottsdale Quality Compliance Division is required.

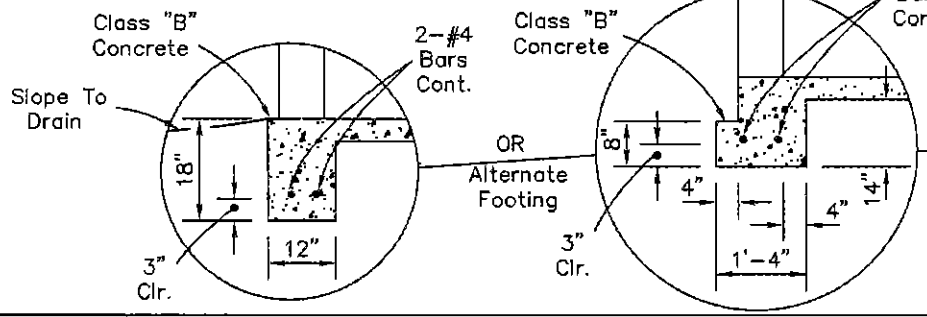
ANGLE PICK-UP



HEAD ON PICK-UP



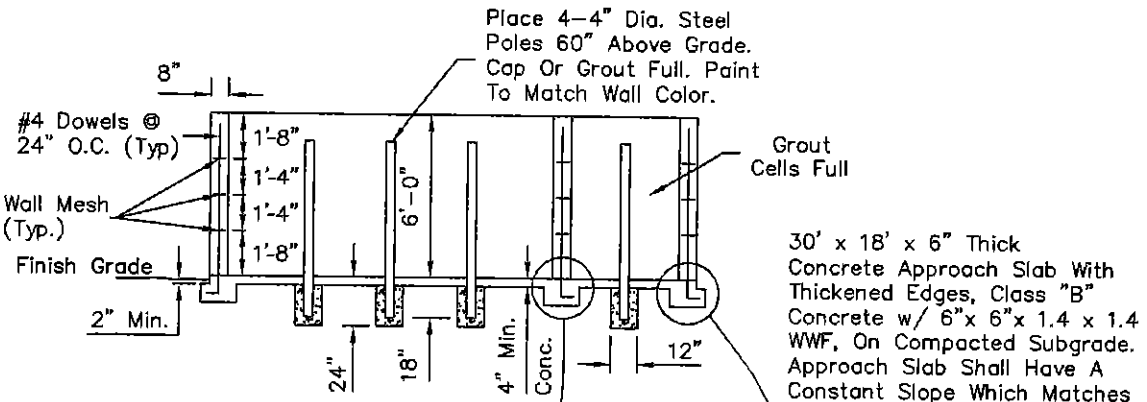
SECTION A-A



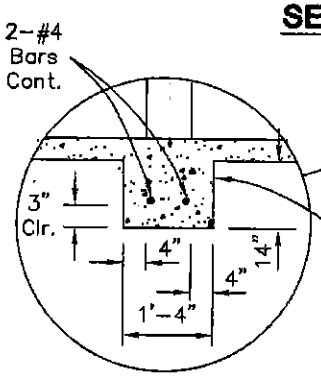
APPROACH SLAB THICKENED EDGE DETAIL

REVISED 5/9/02

DETAIL NO.			DETAIL NO.
2146-1	City of Scottsdale Standard Details	REFUSE ENCLOSURE	2146-1



SECTION A-A



30' x 18' x 6" Thick Concrete Approach Slab With Thickened Edges, Class "B" Concrete w/ 6"x 6"x 1.4 x 1.4 WWF, On Compacted Subgrade. Approach Slab Shall Have A Constant Slope Which Matches The Enclosure Slab.

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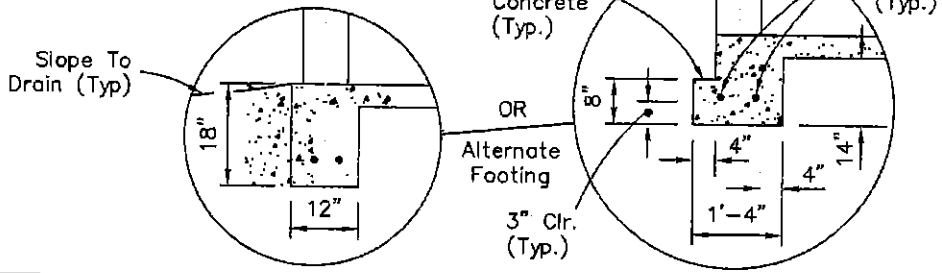
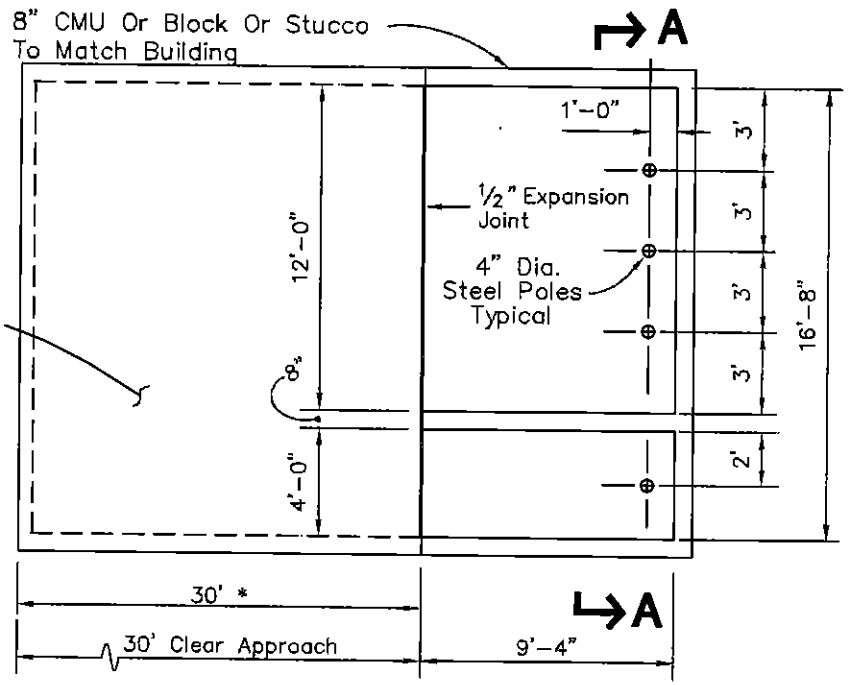
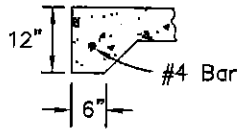




PLAN



APPROACH SLAB THICKENED EDGE DETAIL

NOTES:

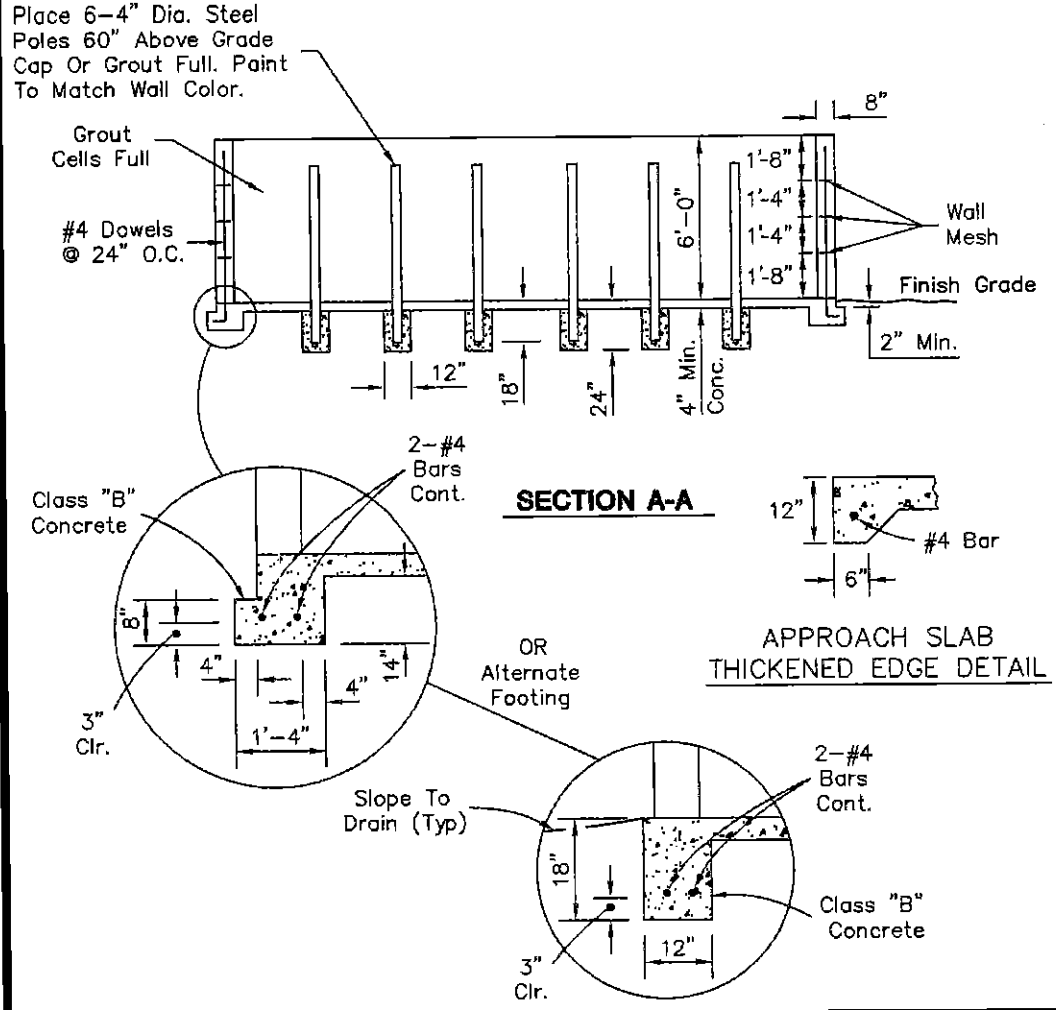
1. Enclosure For Angle Pick–up Similar To COS Detail 2146–1
2. 1/2" Expansion Joint, ASTM D–1751 Per MAG Section 729.

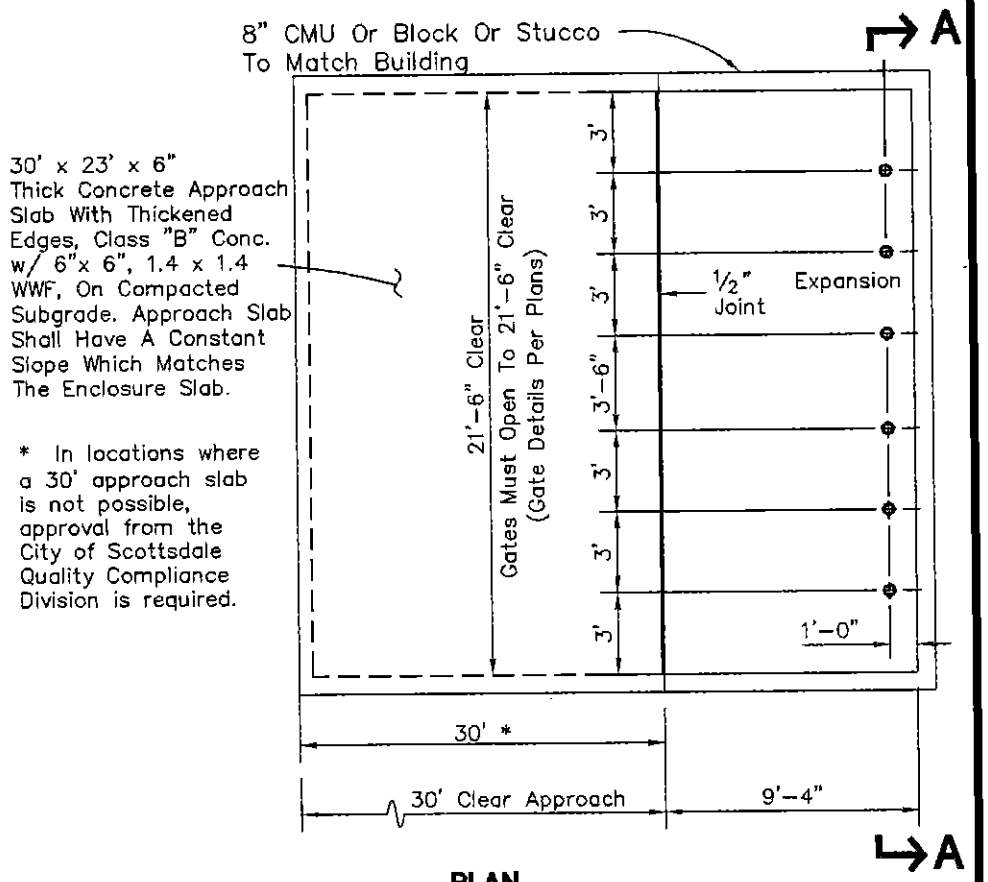
REVISED 5/9/02

DETAIL NO. 2146-2 | City of Scottsdale Standard Details

REFUSE ENCLOSURE W/ GREASE CONTAINMENT AREA

DETAIL NO. 2146-2





PLAN

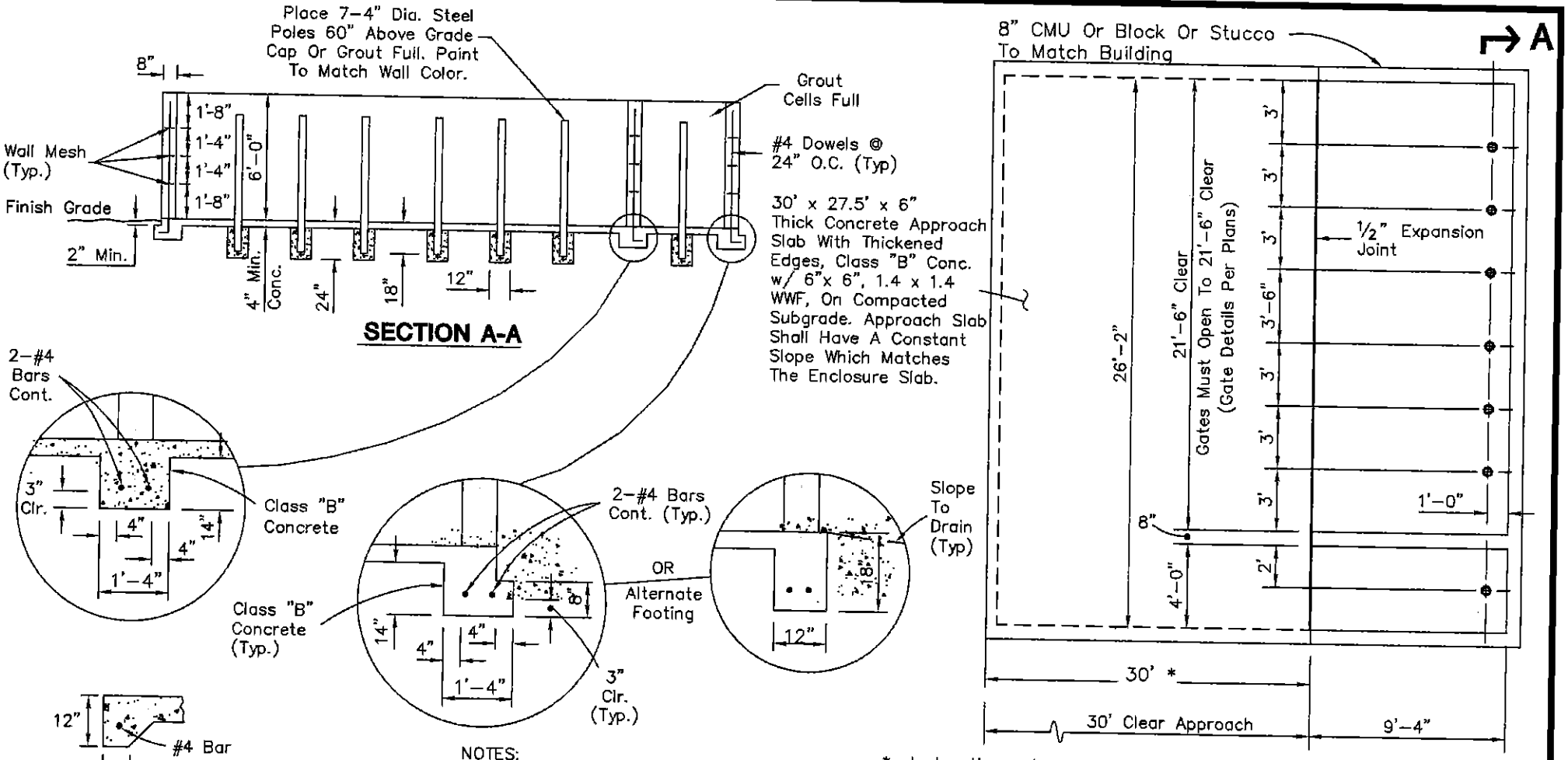
NOTE:

1. Double Enclosure For Angle Pick–Up Similar To COS Det. 2146–1
2. 1/2" Expansion Joint, ASTM D–1751 Per MAG Section 729.

DETAIL NO. 2147-1 **City of Scottsdale Standard Details**

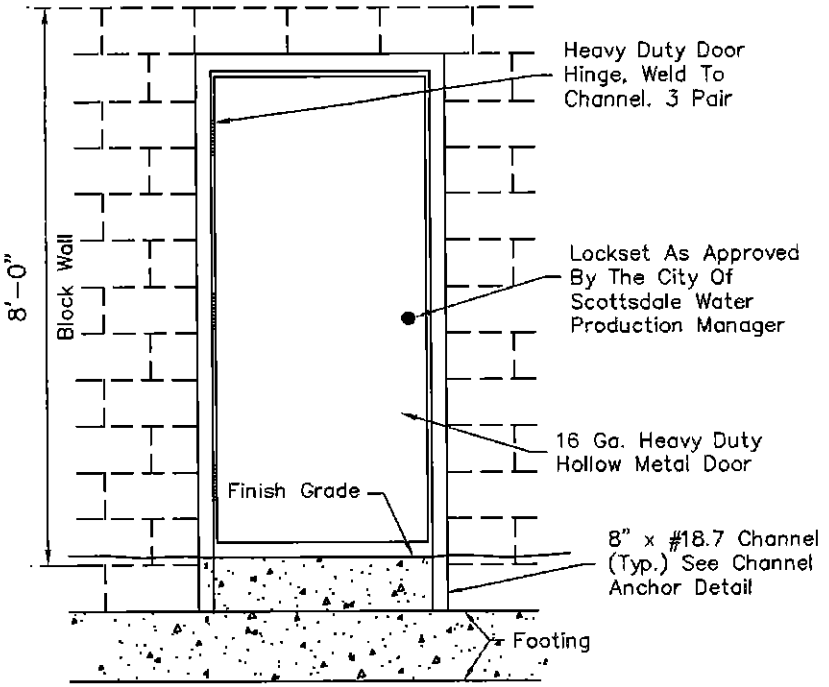
DOUBLE REFUSE ENCLOSURE

DETAIL NO. 2147-1

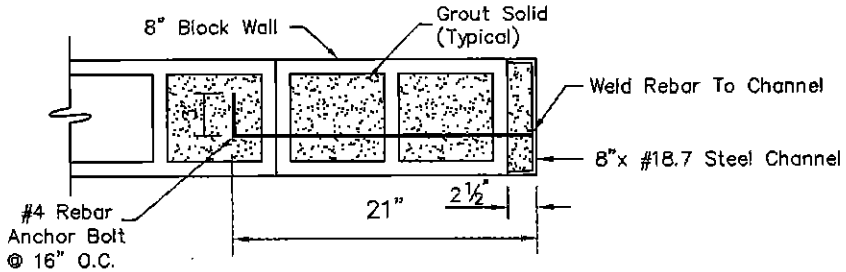


REVISED 3/9/02

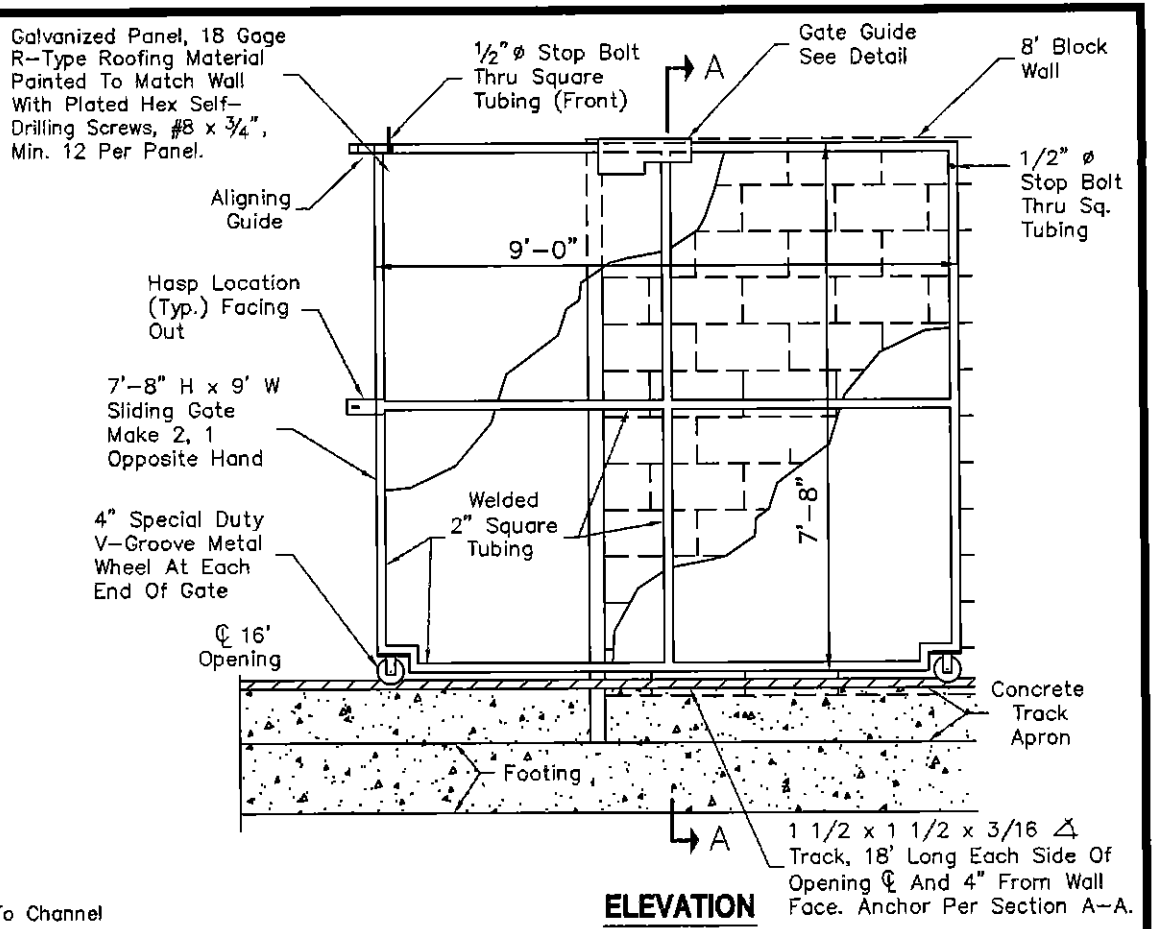
DETAIL NO. 2147-2	City of Scottsdale Standard Details	DOUBLE REFUSE ENCLOSURE W/ GREASE CONTAINMENT AREA	DETAIL NO. 2147-2



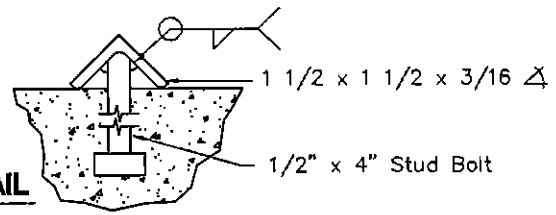
HINGED DOOR



CHANNEL ANCHOR DETAIL



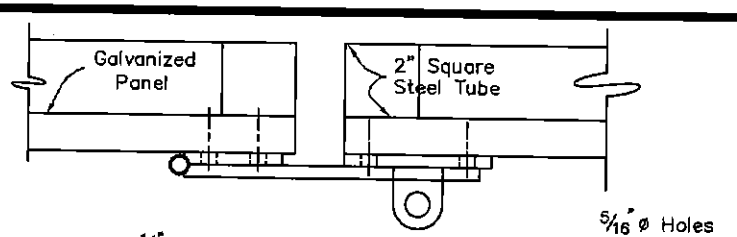
ELEVATION

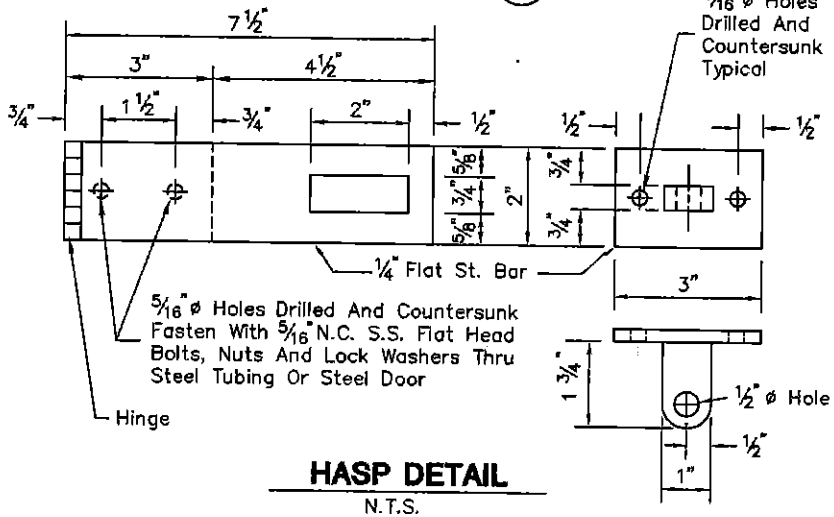


TRACK DETAIL

DETAIL NO. 2165-1	City of Scottsdale Standard Details	16' SLIDING GATE & HINGED DOOR	DETAIL NO. 2165-1

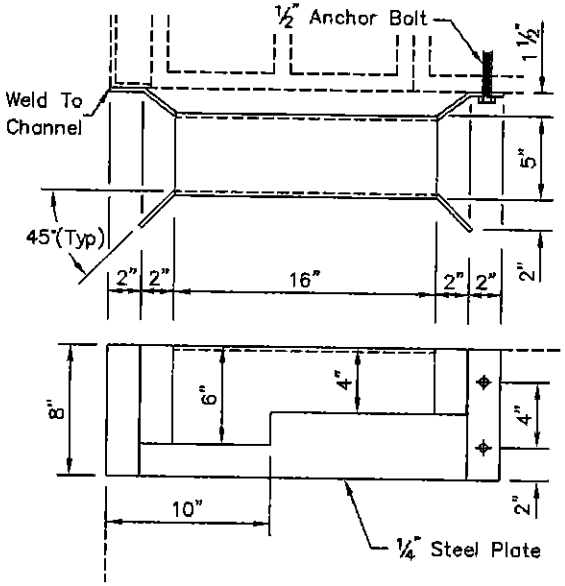
REVISED 1/5/00





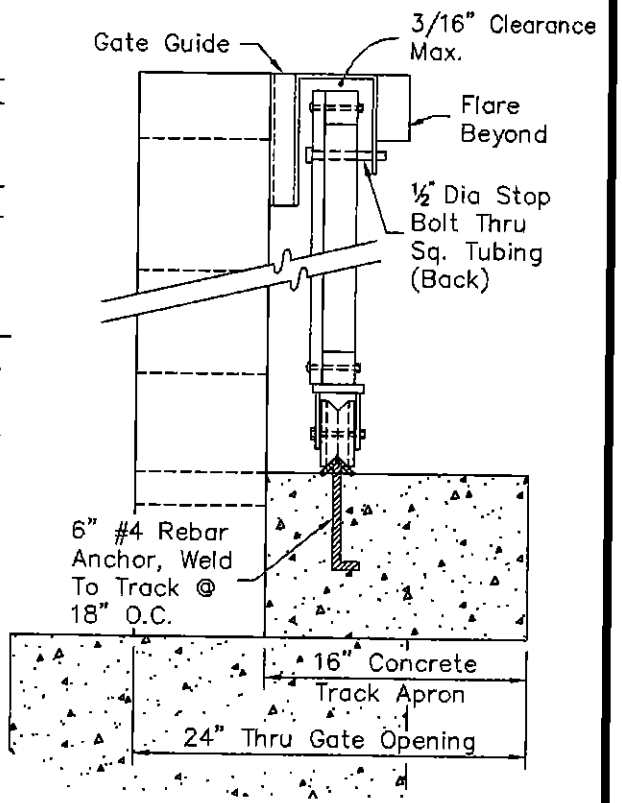
HASP DETAIL

N.T.S.

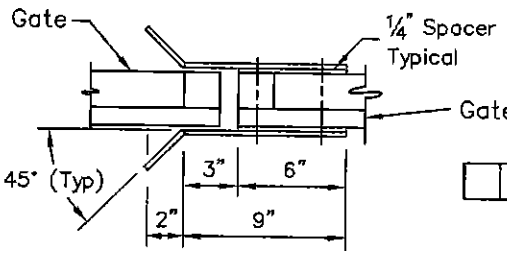


GATE GUIDE DETAIL

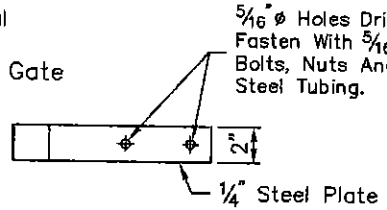
(Make 2, 1 Opposite Hand)



SECTION A-A



PLAN



ELEVATION

ALIGNING GUIDE DETAIL

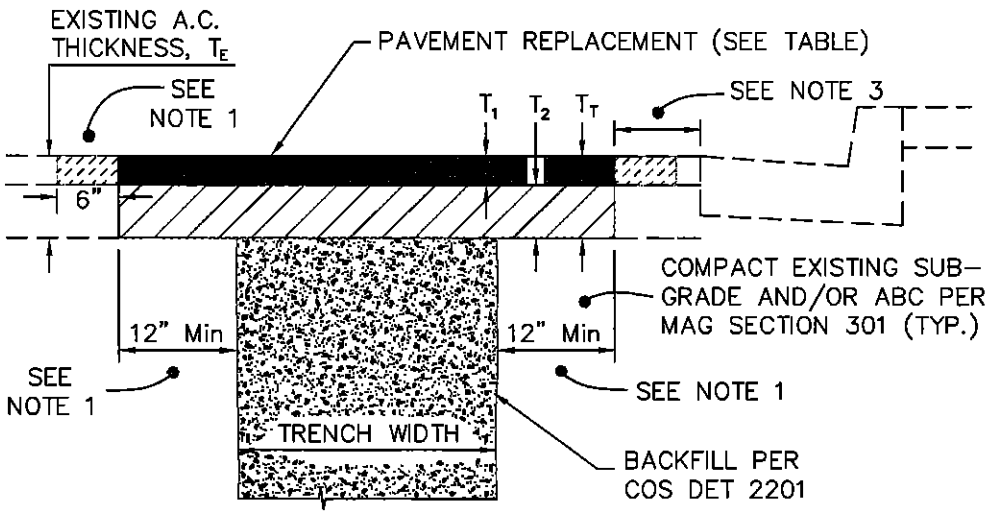
2 Required

NOTES:

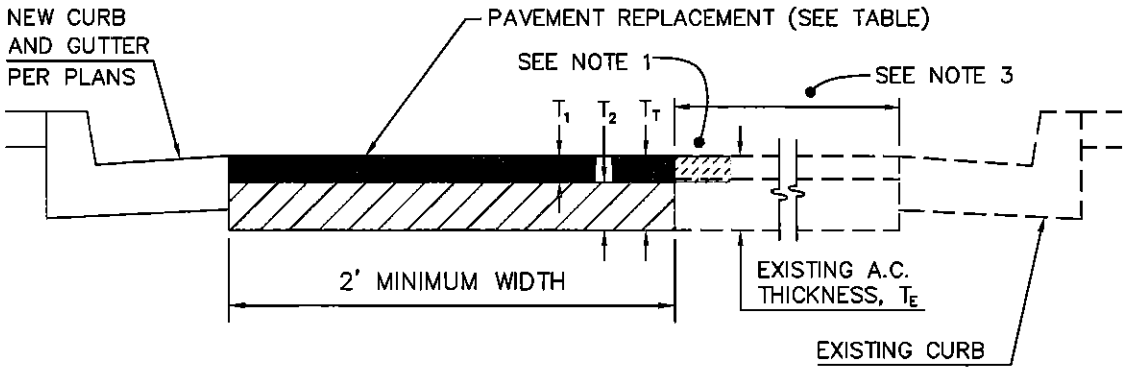
1. Contractor shall prime and paint all metal surfaces. Before application, the color and manufacturer of the paint shall be approved by the City.
2. Prior to painting, all surfaces shall be cleaned free of concrete, mortar, rust, dirt and any other objectionable materials.
3. Apply one (1) primer coat and two (2) exterior alkyd gloss enamel coats to metal.

DETAIL NO. 2165-2	City of Scottsdale Standard Details	APPROVED BY: _____	16' SLIDING GATE	DETAIL NO. 2165-2

REVISED 3/15/99



PAVEMENT REPLACEMENT FOR TRENCHES (T-TOP)



PAVEMENT REPLACEMENT

EXISTING PAVEMENT THICKNESS, T_E	AC PAVEMENT REPLACEMENT TABLE		
	AC SINGLE COURSE OR SURFACE COURSE, T_1	AC BASE COURSE, T_2	TOTAL THICKNESS, T_T
$T_E \leq 3"$	3" MINIMUM	NONE	3" MINIMUM
$T_E > 3"$	2" MINIMUM	2" MINIMUM	T_E (MATCH EXIST)

PAVEMENT REPLACEMENT NOTES

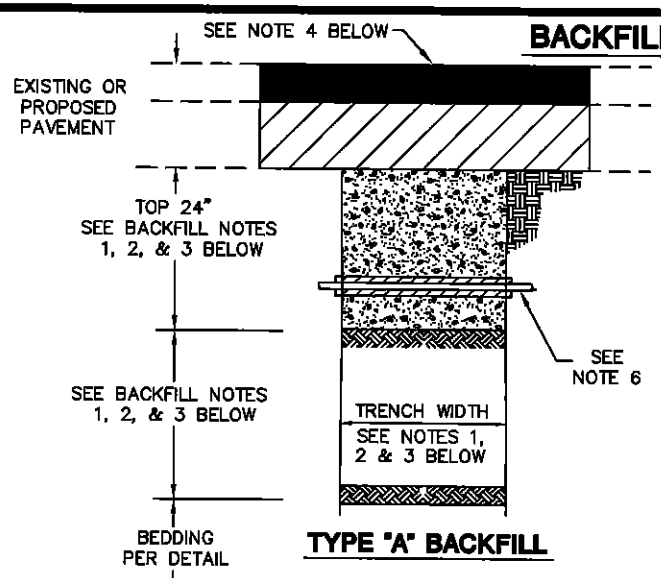
1. "T"-TOP REQUIRED FOR ALL TRENCHES. A.C. SURFACE COURSE REPLACEMENT TO BE MILLED DOUBLE "T" CONFIGURATION AS SPECIFIED BELOW FOR PAVEMENTS 4" AND THICKER.
   a. FOR PAVEMENT 4 YEARS AND OLDER: INITIAL A.C. REMOVAL TO BE THE MINIMUM WIDTH REQUIRED FOR PROPER TRENCH COMPACTION. SAWCUT & REMOVE 12" OF 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. PAVEMENTS 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 PAVEMENTS 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 PAVEMENT STRUCTURES REQUIRING TWO OR MORE PAVEMENT 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 MINIMUM TOTAL WIDTH OF 10 FEET.
2. ASPHALT CONCRETE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF MAG SECTION 321.
3. IF PAVEMENT REMNANT IS LESS THAN 36", REMOVE AND REPLACE PAVEMENT AS PER THIS DETAIL.
4. AGGREGATE BASE COURSE PER MAG SECTION 702 SHALL BE PROVIDED TO MATCH EXISTING ABC THICKNESS IN ADJACENT ROADWAY.
5. REFER TO COS SUPPLEMENTAL SPECIFICATIONS, SECTION 336.2.4 FOR PAVEMENT SMOOTHNESS REQUIREMENTS.

REVISED 3/28/02

DETAIL NO. 2200	City of Scottsdale Standard Details	PAVEMENT REPLACEMENT	DETAIL NO. 2200

REVISED 4/25/02

BACKFILL DETAILS

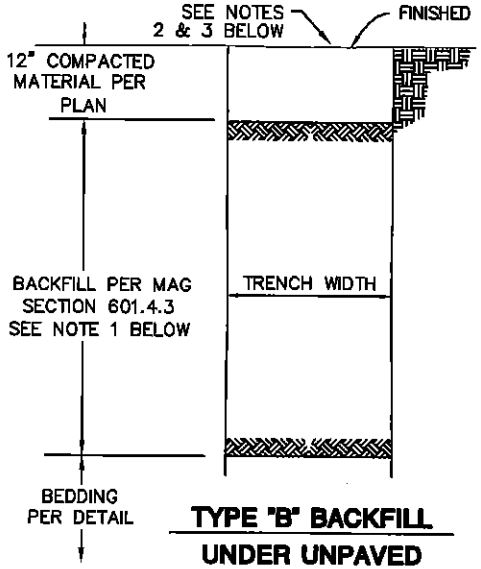


TYPE "A" BACKFILL

UNDER EXIST. OR PROPOSED PAVEMENT OR EXIST. SURFACE TREATMENT

BACKFILL NOTES

1. TRENCHES 24" IN WIDTH OR LESS – ½ SACK C–S–LM, MAG 728, FULL DEPTH OF BACKFILL BOTTOM OF ABC LAYER IN PAVEMENT STRUCTURE OR 6" BELOW PAVEMENT IN FULL DEPTH PAVEMENT STRUCTURES. CONSTRUCT PAVEMENT STRUCTURE TO MATCH EXISTING AND IN ACCORDANCE WITH COS DETAIL 2200.
2. TRENCHES 24" TO 6' IN WIDTH – ½ SACK C–S–LM AS DESCRIBED IN NOTE 1 ABOVE WITHIN THE TOP 24" OF THE TRENCH; MAG 601.4.3 FOR BALANCE OF BACKFILL.
3. TRENCHES OVER 6' IN WIDTH – MAG 601.4.3 FULL DEPTH OF BACKFILL.
4. TREAT ENTIRE DISTURBED SURFACE OF UNPAVED ALLEYS WITH LIGNIN–BASED DUST PALLATIVE, MAG 792, 1:1 DILUTION RATIO, 0.50 GAL/SY APPLICATION RATE.
5. C–S–LM SHALL NOT BE USED FOR WATER OR SEWER PIPE BEDDING. SEE BEDDING DETAIL.
6. EXPOSED COPPER OR POLYETHYLENE WATER PIPES IN SIZES ¾" TO 2" SHALL BE WRAPPED WITH ¾" WIDE BLACK INSULATION BEFORE PLACING C–S–LM.
7. RECYCLED ASPHALT SHALL NOT BE USED FOR BACKFILL.



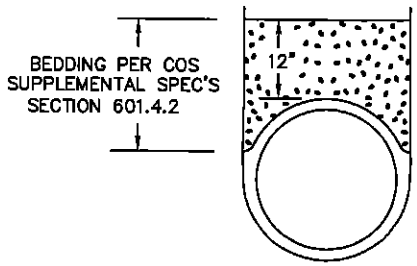
TYPE "B" BACKFILL

UNDER UNPAVED ROADWAY, PARKING LOT AND VACANT LAND

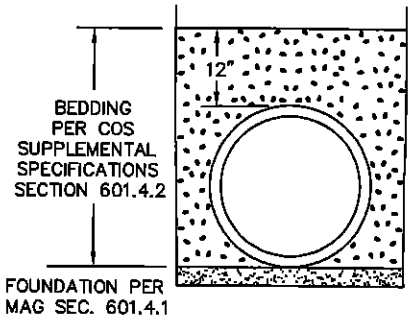
BACKFILL NOTES

1. MAG 601.4.3 FULL DEPTH OF BACKFILL
2. ENTIRE DISTURBED EXISTING SURFACE TO BE RESTORED WITH A LIKE MATERIAL
3. TREAT ENTIRE DISTURBED SURFACE WITH LIGNIN–BASED DUST PALLATIVE, MAG 792, 1:1 DILUTION RATIO, 0.50 GAL/SY APPLICATION RATE.
4. RECYCLED ASPHALT SHALL NOT BE USED FOR BACKFILL.

BEDDING DETAILS



BEDDING DETAIL
CAST-IN-PLACE PIPE



BEDDING DETAIL
ALL OTHER PIPE

NOTES:

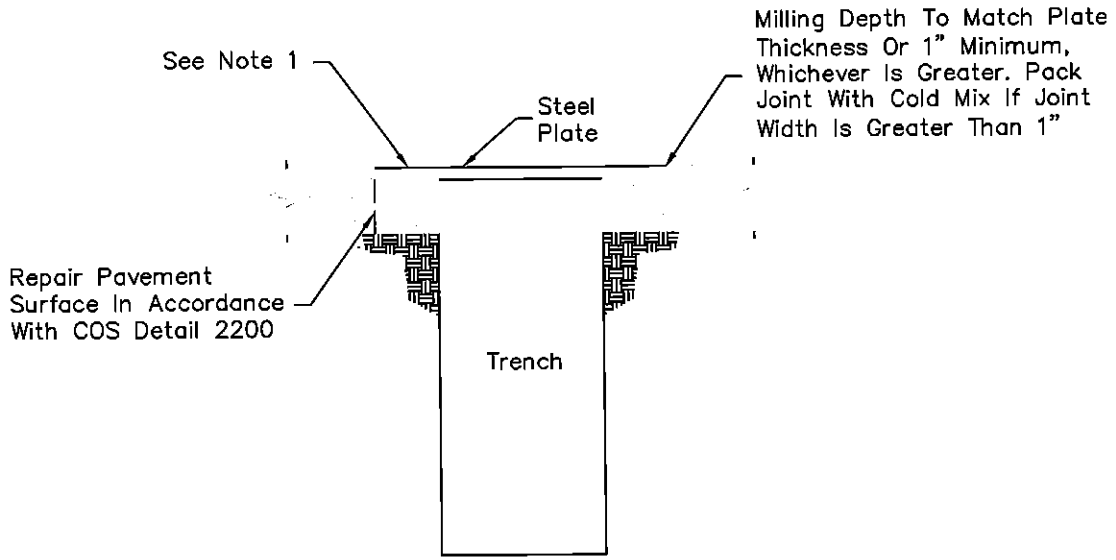
1. FOR HDPE PIPE – SEE COS SUPPLEMENTAL SPECIFICATIONS SECTION 603.4.2
2. RECYCLED ASPHALT SHALL NOT BE USED FOR BEDDING OR FOUNDATION MATERIAL.

DETAIL NO. 2201	City of Scottsdale Standard Details	TRENCH BEDDING & BACKFILL	DETAIL NO. 2201

REVISED: 4/25/02

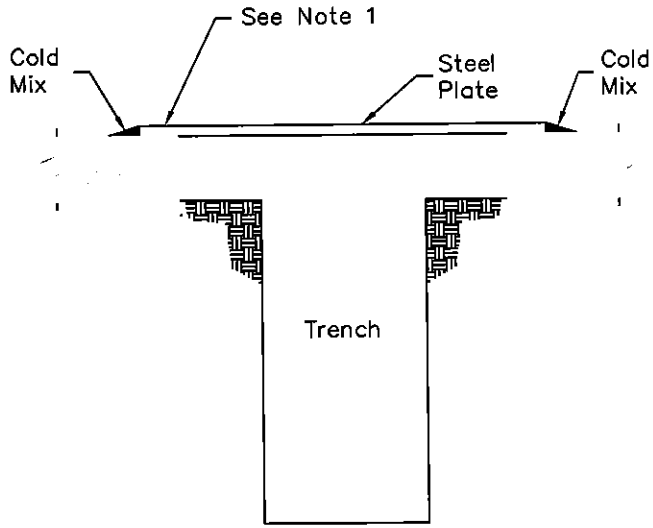
NOTES:

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



TYPE "A" PLATING

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

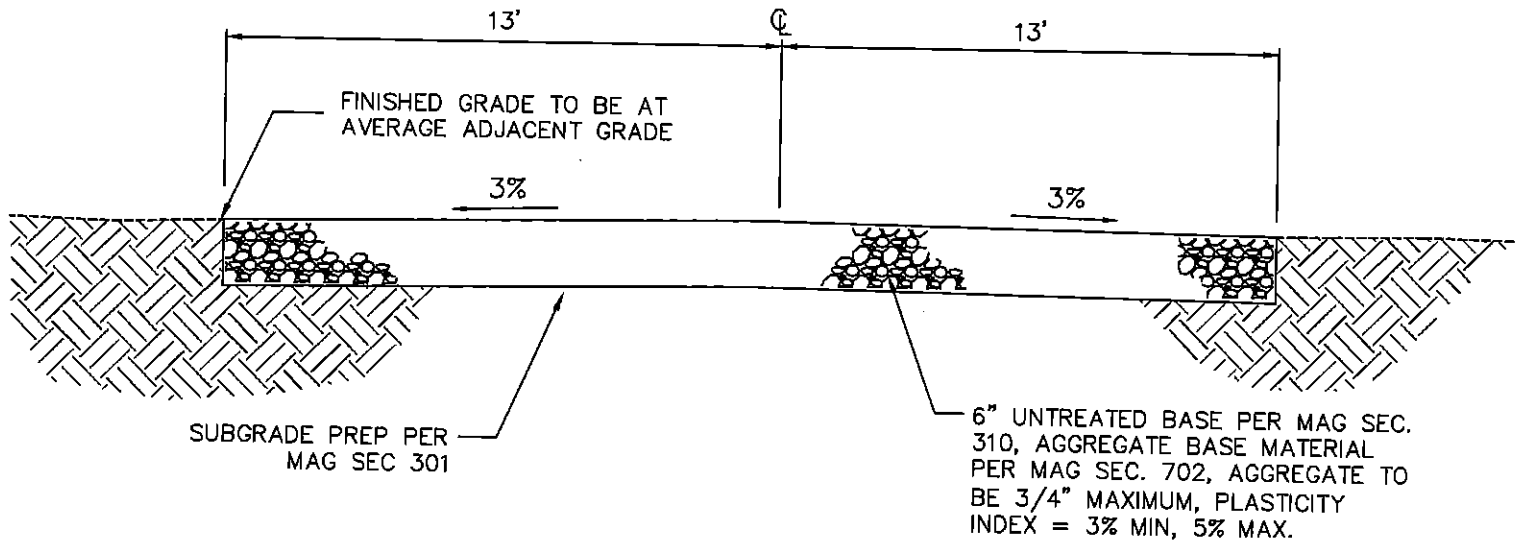


TYPE "B" PLATING

CITY POSTED SPEEDS UNDER 35 MPH

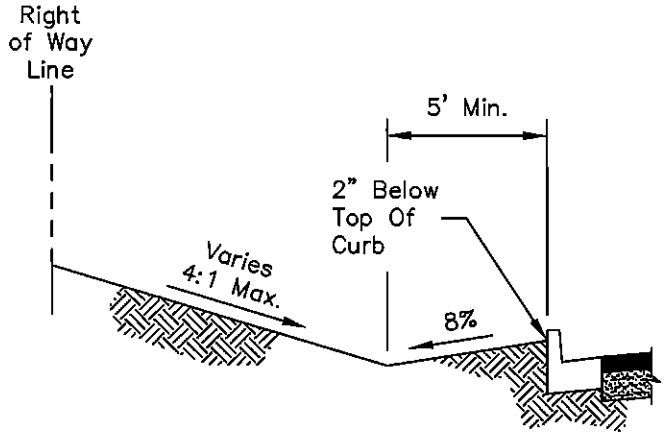
DETAIL NO. 2202	City of Scottsdale Standard Details	APPROVED BY:	TRENCH PLATING	DETAIL NO. 2202

REVISED: 3/28/02

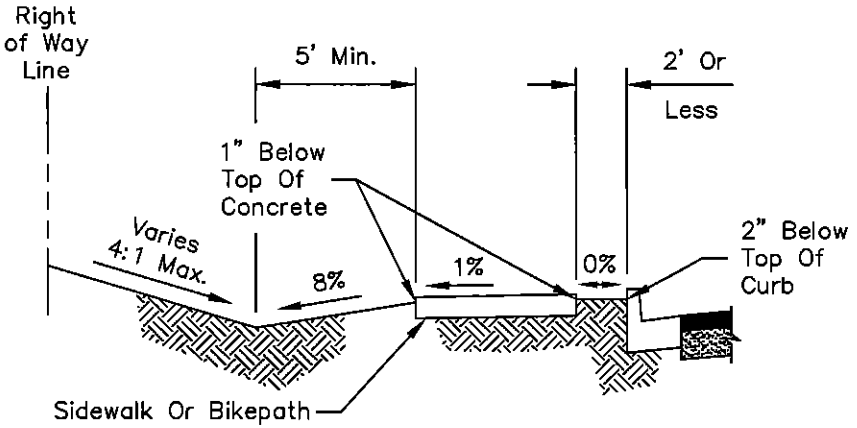


UNPAVED ROAD DETAIL

DETAIL NO. 2207	City of Scottsdale Standard Details	RESIDENTIAL UNPAVED ROAD	DETAIL NO. 2207



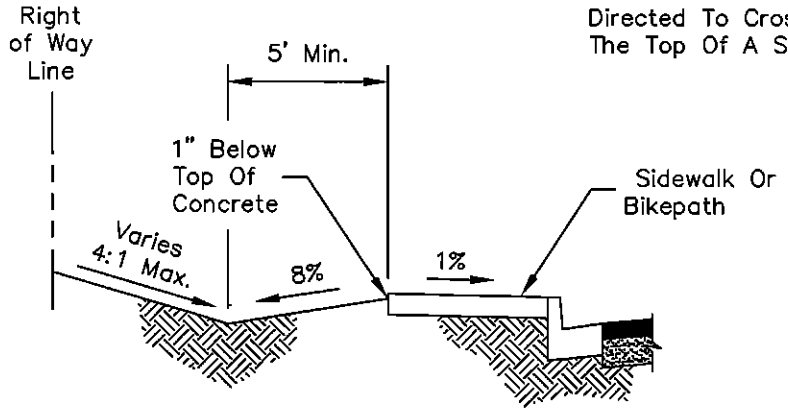
NO SIDEWALK



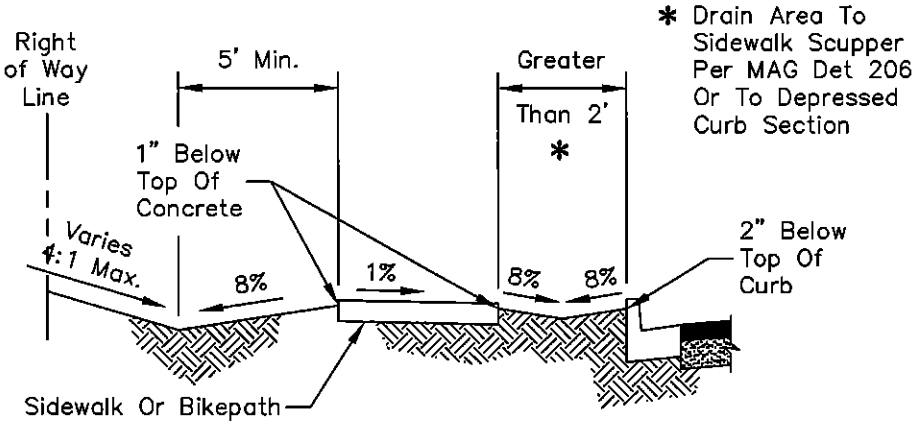
SIDEWALK LESS THAN 2' BEHIND CURB

NOTE:

Runoff Shall Not Be Directed To Cross Over The Top Of A Sidewalk.



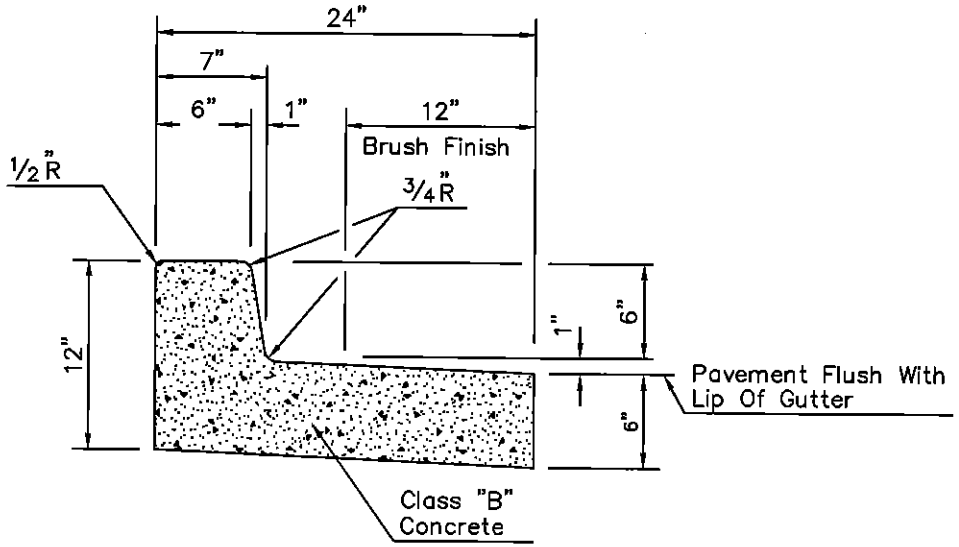
SIDEWALK AT BACK OF CURB



SIDEWALK MORE THAN 2' BEHIND CURB

DETAIL NO. 2210	City of Scottsdale Standard Details	APPROVED BY: _____	GRADING BEHIND THE CURB	DETAIL NO. 2210

REVISED 4/7/00

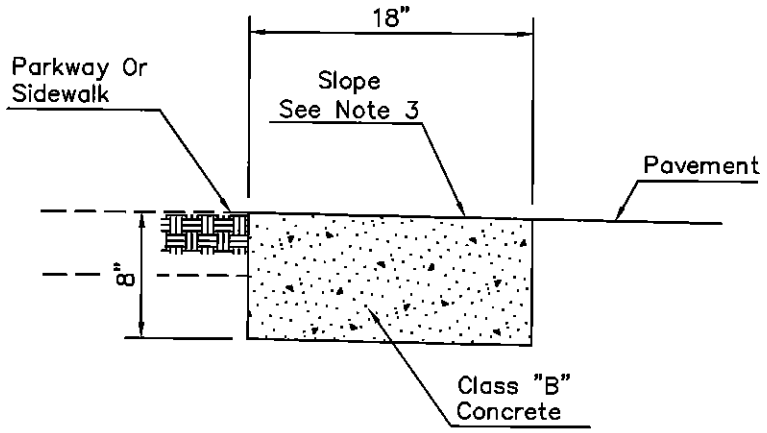


VERTICAL CURB & GUTTER WITH DEPRESSED LIP

TYPE "A"

NOTES

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



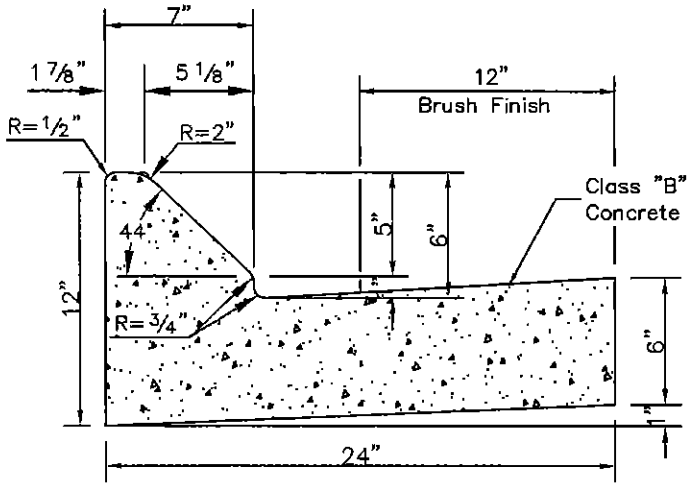
RIBBON CURB

TYPE "B"

NOTES

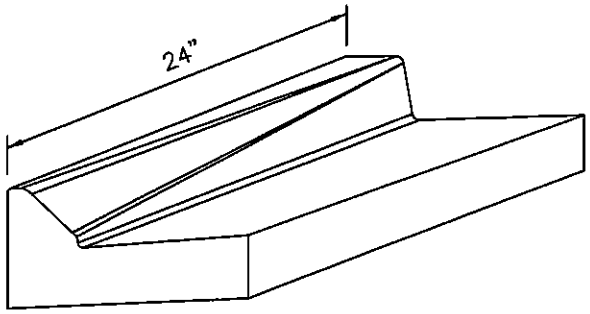
1. Construct curb and install 1/2" mastic expansion joints, A.S.T.M. D–1751, per M.A.G. Sec. 340 & 729 and COS Sec 340.
2. Broom finish all surfaces.
3. Ribbon curb may slope towards pavement or parkway. Match cross slope of road unless indicated otherwise on plans.
4. Contraction joint spacing 10' maximum.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

REVISED 3/28/02

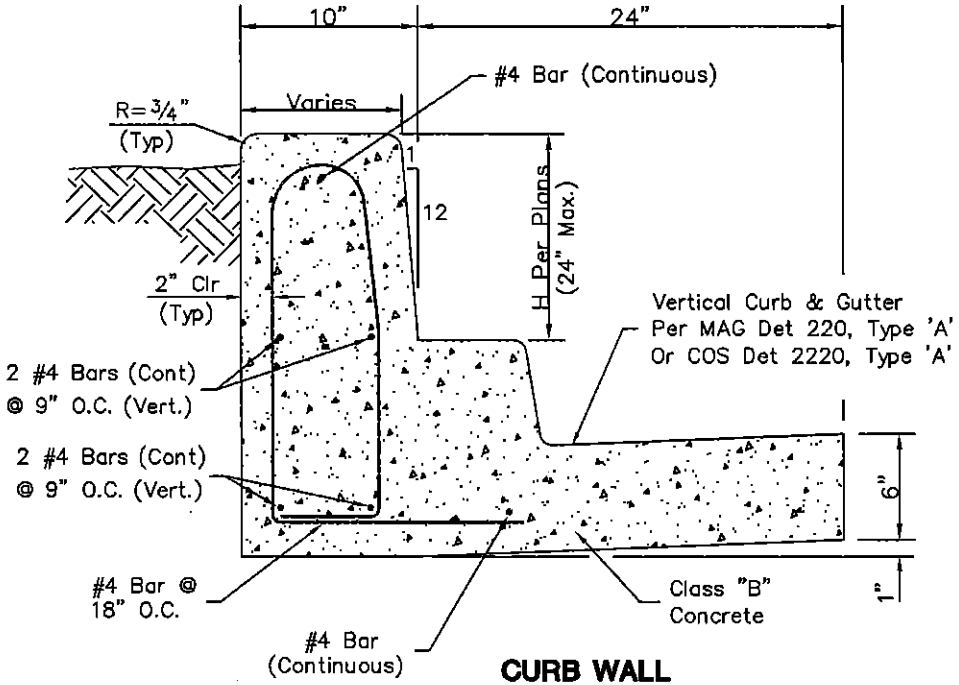


MOUNTABLE/MEDIAN CURB & GUTTER

TYPE "M"



MOUNTABLE CURB TO VERTICAL CURB TRANSITION



CURB WALL

TYPE "W"

NOTES

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

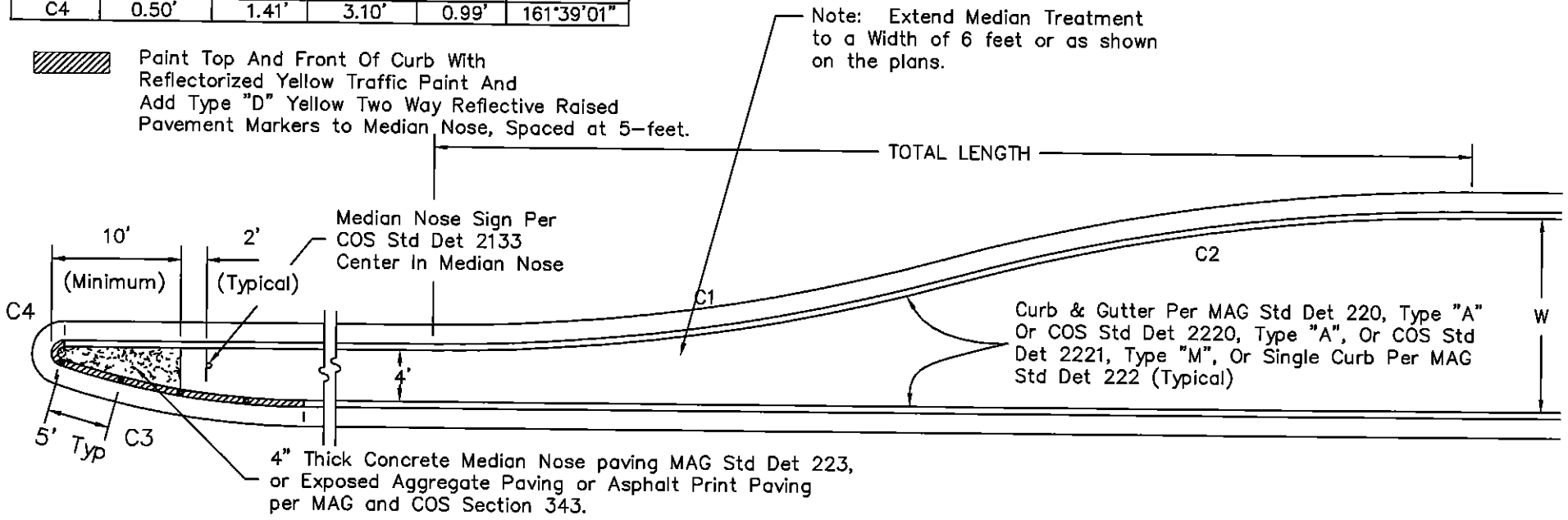
DETAIL NO. 2221	City of Scottsdale Standard Details	APPROVED BY: _____	CURB & GUTTER - TYPES M & W	DETAIL NO. 2221

REVISED 3/28/02

MEDIAN NOSE CURVE DATA

CURVE	RADIUS *	LENGTH	TANGENT	CHORD	DELTA
C3	59.5'	19.06'	9.61'	18.97'	18°20'59"
C4	0.50'	1.41'	3.10'	0.99'	161°39'01"

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



STREET CLASSIFICATION	TYPE A COLLECTOR STREET		TYPE B MINOR ARTERIAL		TYPE C MAJOR ARTERIAL		TYPE D DUAL LEFT TURN LANES		TYPE E MINOR ARTERIAL		TYPE F MAJOR ARTERIAL	
TOTAL LENGTH	80.49'		98.89'		114.36'		164.53'		103.23'		153.62'	
MEDIAN WIDTH, W	15'		15'		15'		27'		16'		24'	
CURVE NUMBER	C1	C2	C1	C2	C1	C2	C1	C2	C1	C2	C1	C2
RADIUS *	150.00'	150.00'	150.00'	300.00'	300.00'	300.00'	300.00'	300.00'	150.00'	300.00'	300.00'	300.00'
DELTA	15°33'49"	15°33'49"	12°41'40"	12°41'40"	10°59'17"	10°59'17"	15°54'56"	15°54'56"	13°15'41"	13°15'41"	14°50'06"	14°50'06"
LENGTH	40.75'	40.75'	33.23'	66.47'	57.53'	57.53'	83.33'	83.33'	34.72'	69.44'	77.68'	77.68'
TANGENT	20.50'	20.50'	16.69'	33.37'	28.86'	28.86'	41.94'	41.94'	17.44'	34.87'	39.06'	39.06'
CHORD	40.62'	40.62'	33.17'	66.33'	57.45'	57.45'	83.07'	83.07'	34.64'	69.28'	83.07'	83.07'

* ALL RADII AND DIMENSIONS TO BACK OF CURB

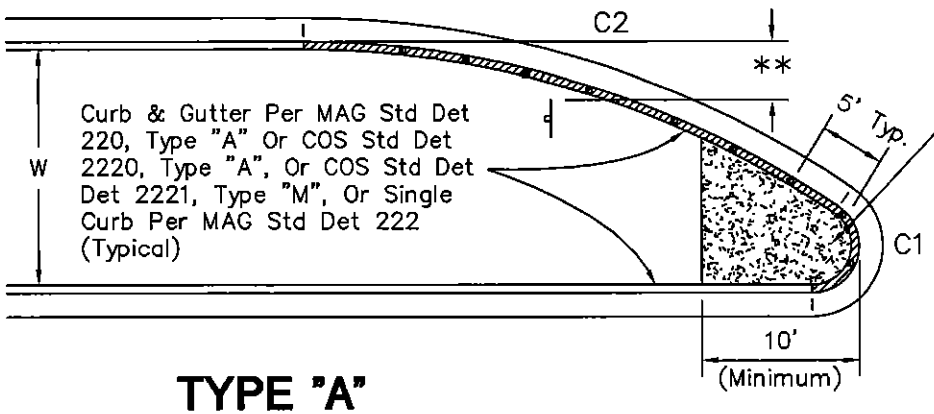
NOTE: Curve Data Shown Is For Streets On Linear Alignments Only.

DETAIL NO. 2225

City of Scottsdale Standard Details

MEDIAN NOSE & REVERSE CURVE DETAILS

DETAIL NO. 2225



TYPE "A"

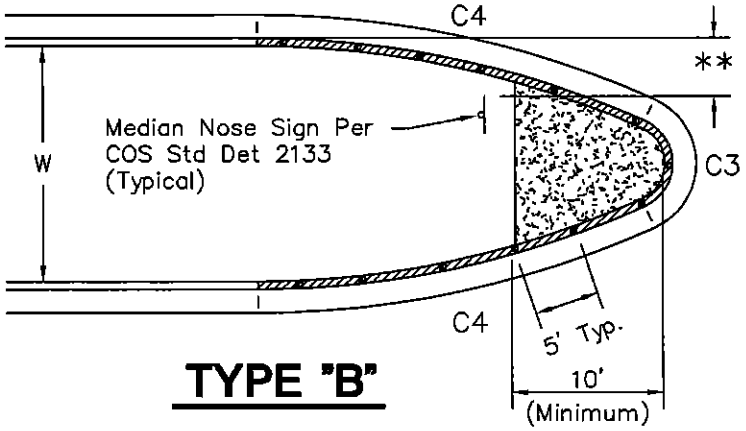
4" Thick Concrete Median Nose Paving MAG Std Det 223, or Exposed Aggregate Paving or Asphalt Print Paving per MAG and COS Section 343 (Typical)

* 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"

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.



TYPE "B"

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'	34.85'	17.94'	34.35'	33°33'26"

REVISED 3/28/02

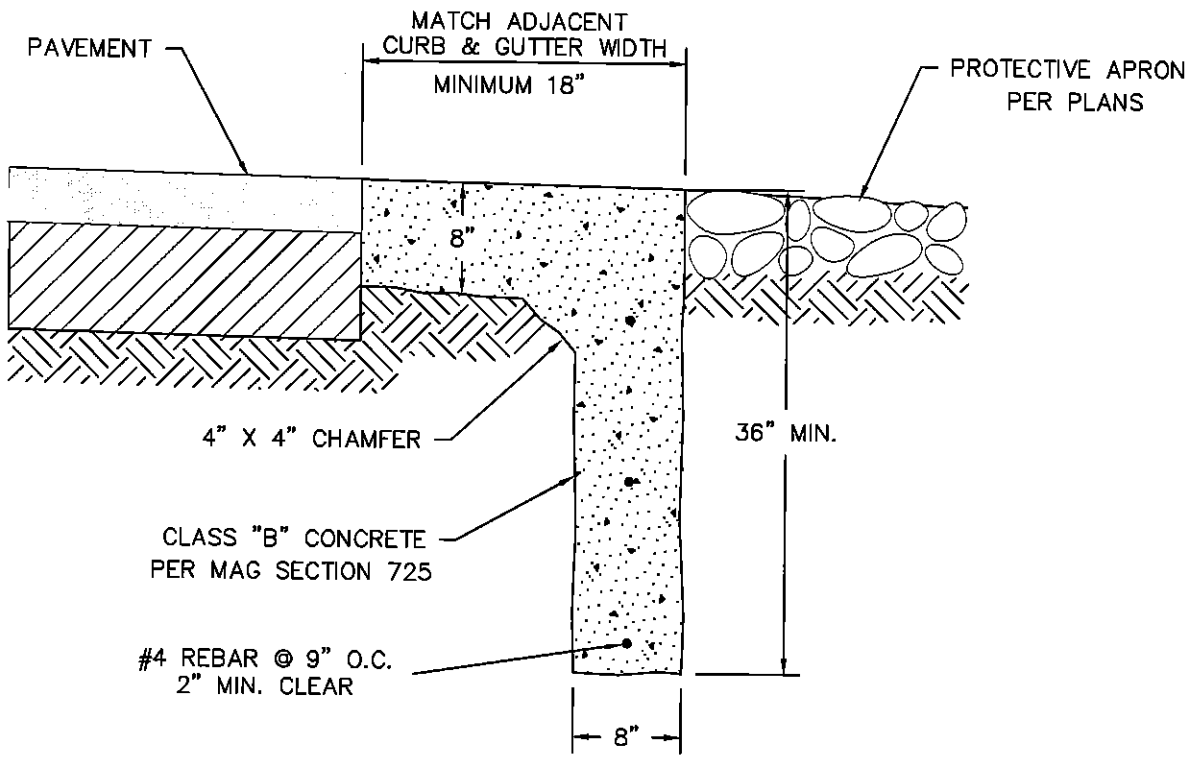
DETAIL NO. 2226

City of Scottsdale Standard Details

MEDIAN NOSE DETAILS

DETAIL NO. 2226

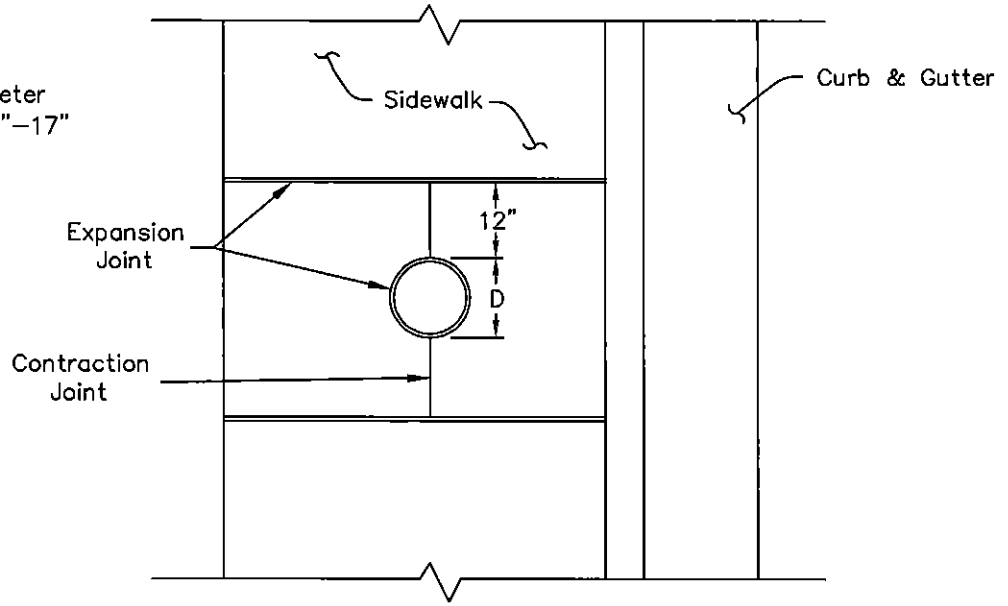
REVISED 2/22/99

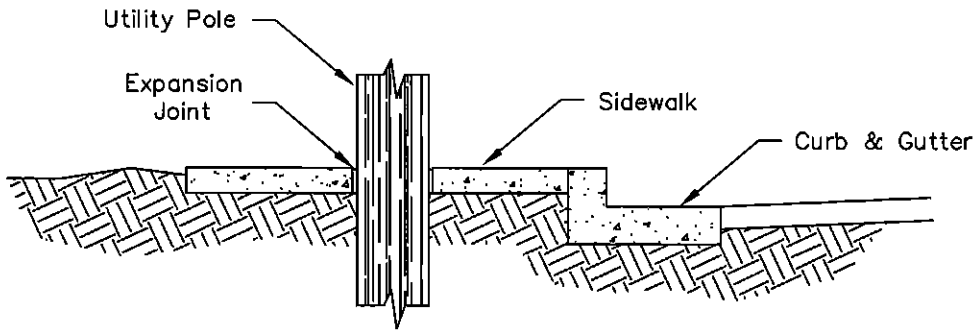


NOTE: Form The Top 8" Of Cut-Off Wall

DETAIL NO. 2228	City of Scottsdale Standard Details	APPROVED BY:	CUT-OFF WALL	DETAIL NO. 2228

D = Pole Diameter
Range: 12"–17"



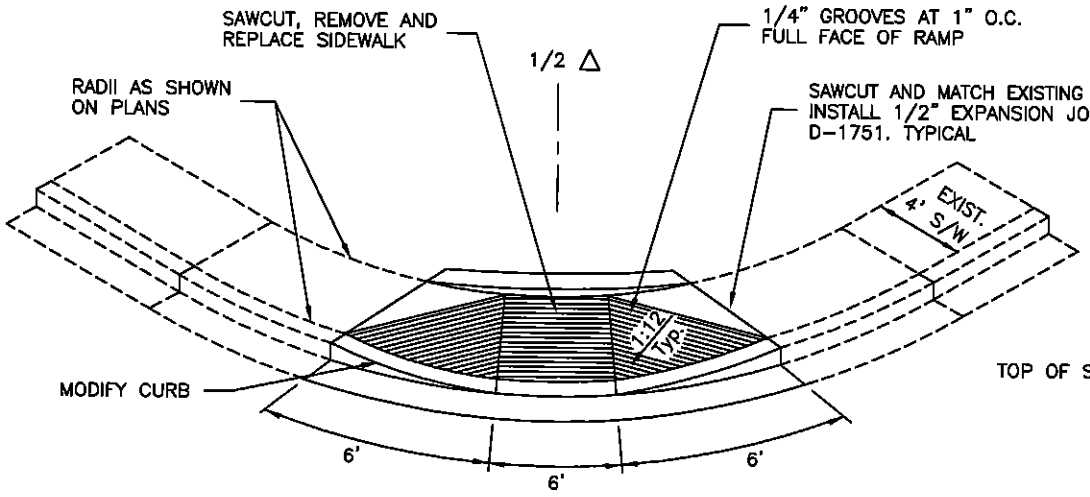


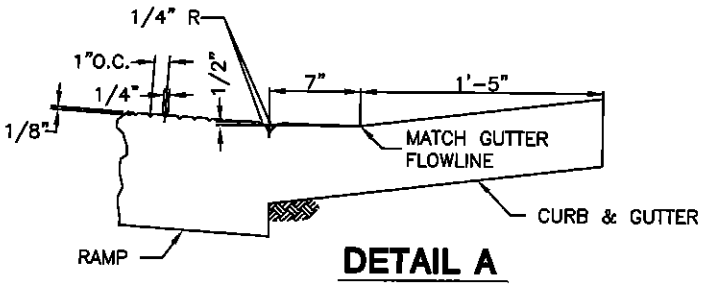
NOTES

Install expansion joint around wood pole.

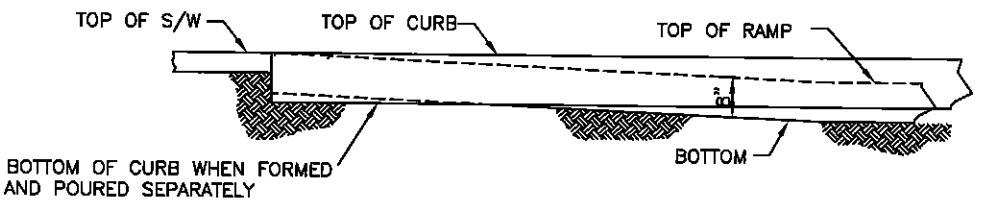
Install expansion joint at sidewalk 1/4" lower than sidewalk

DETAIL NO. 2230	City of Scottsdale Standard Details	APPROVED BY: _____	SIDEWALK CUTOUT FOR UTILITY POLES	DETAIL NO. 2230

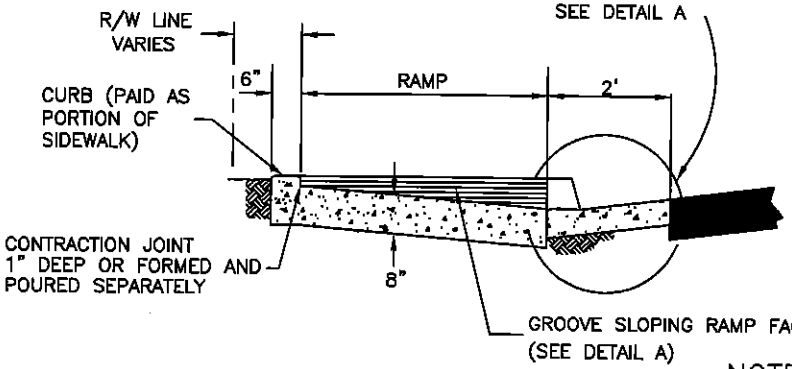




DETAIL A



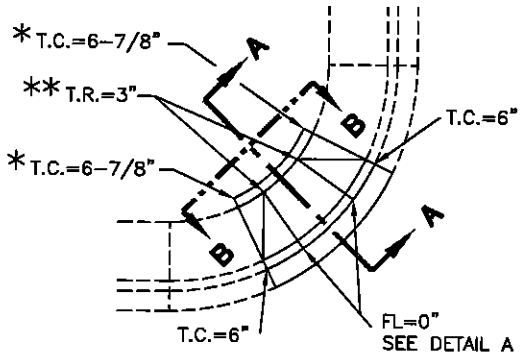
SECTION B-B



SECTION A-A

* IF EXISTING CURB IS OTHER THAN 6", ADJUST OTHER HEIGHTS ACCORDINGLY

** T.R. IS ALWAYS 3"



CONTROL ELEVATIONS

NOTE:

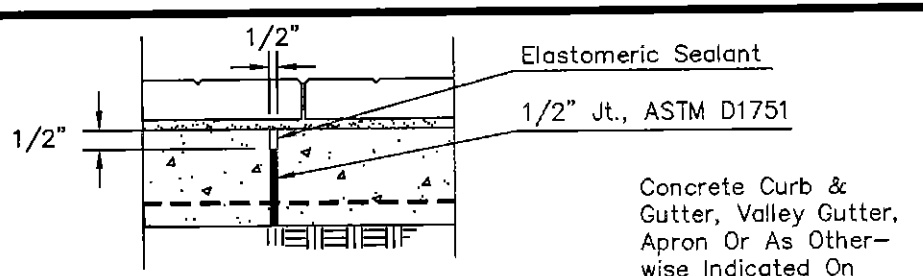
1. CONTROL ELEVATIONS SHOWN ARE IN RELATION TO THE GUTTER AND ARE LOCATED RADIALLY. GUTTER ELEVATION=0
2. CURB AND GUTTER TO BE POURED MONOLITHICALLY WITH SIDEWALK AND RAMP.

REVISED 3/28/02

DETAIL NO. 2232	City of Scottsdale Standard Details	SIDEWALK RAMP RETROFIT	DETAIL NO. 2232

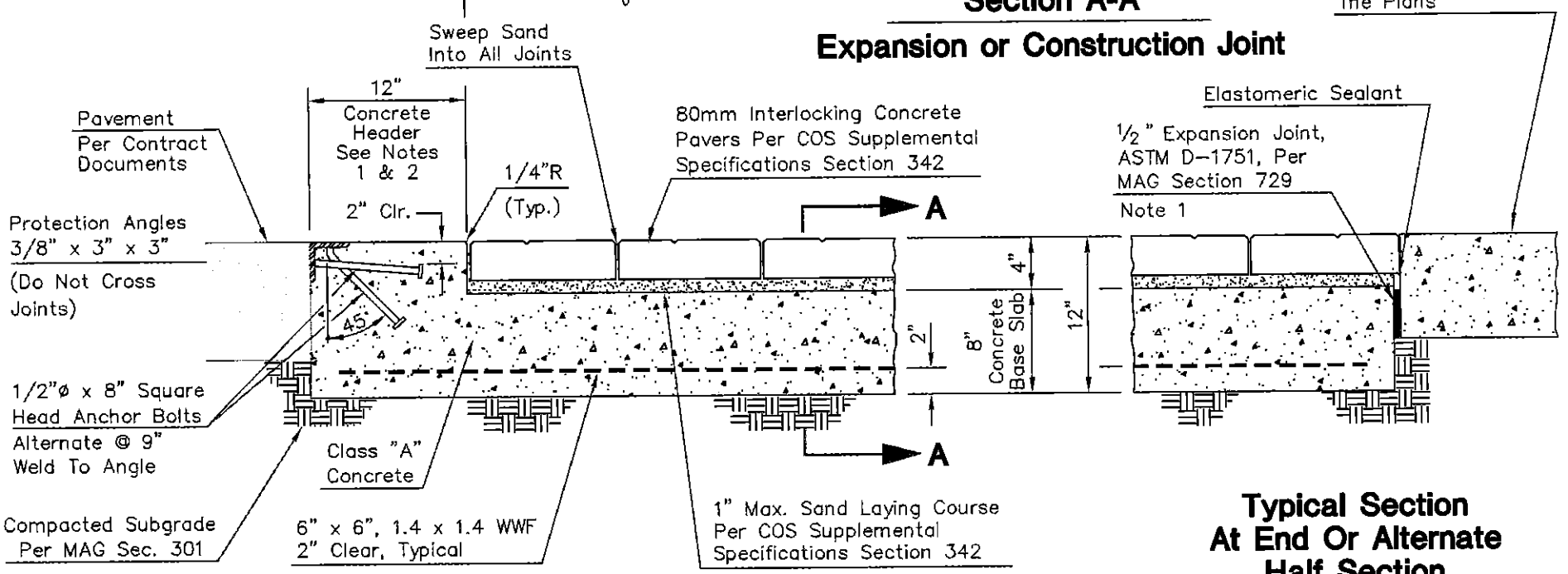
NOTES:

1. ½" Expansion Joint, ASTM D–1751 Per MAG Sec. 729, and Elastomeric Sealant Per COS Sec. 342.3.4.
2. Contraction Joints Per COS Supplemental Specifications Sec. 342.
3. Materials And Construction Per COS Supplemental Specifications Sec. 342.



Section A-A

Expansion or Construction Joint



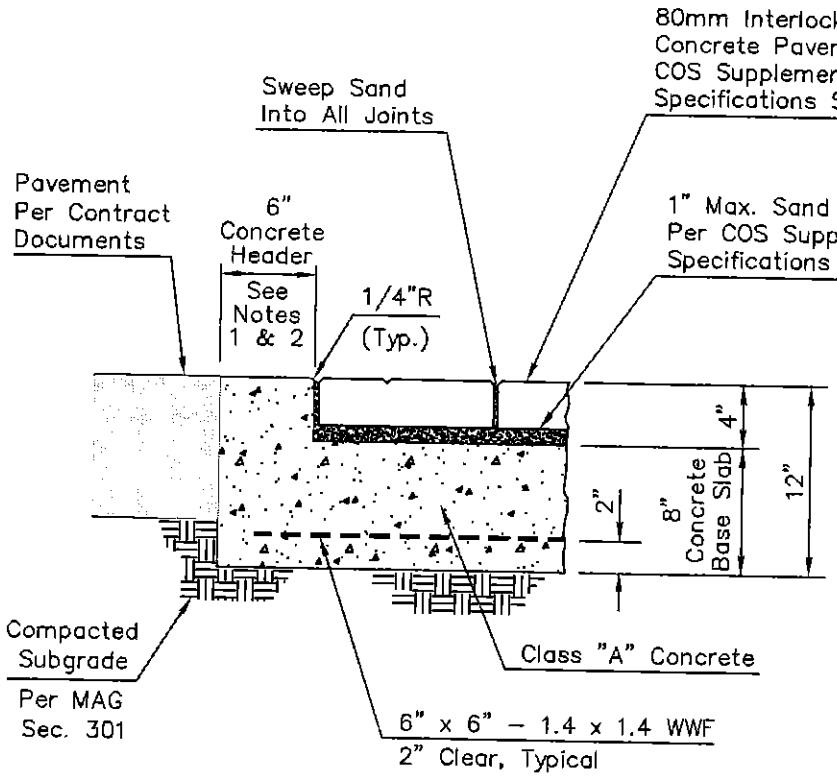
Typical Half Section (Against Pavement)

Typical Section At End Or Alternate Half Section (Against Concrete)

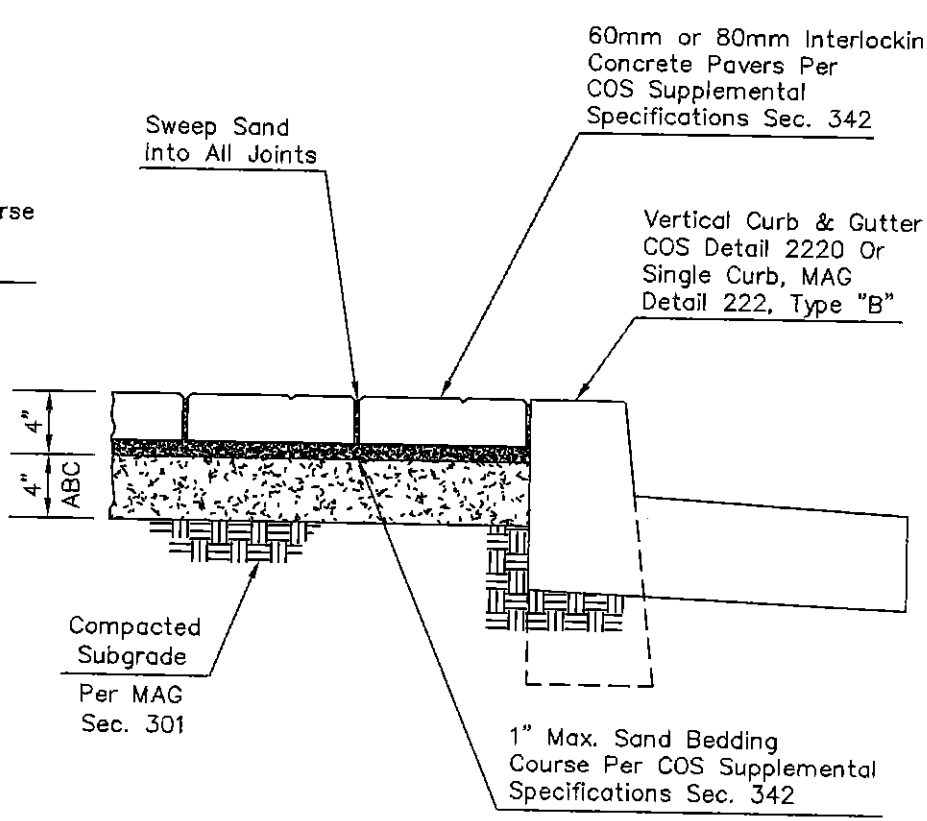
REVISED 2/27/01

DETAIL NO. 2238	City of Scottsdale Standard Details	CONCRETE PAVER CROSSWALK	DETAIL NO. 2238

REVISED 2/26/01



Type "B"
Flush Median

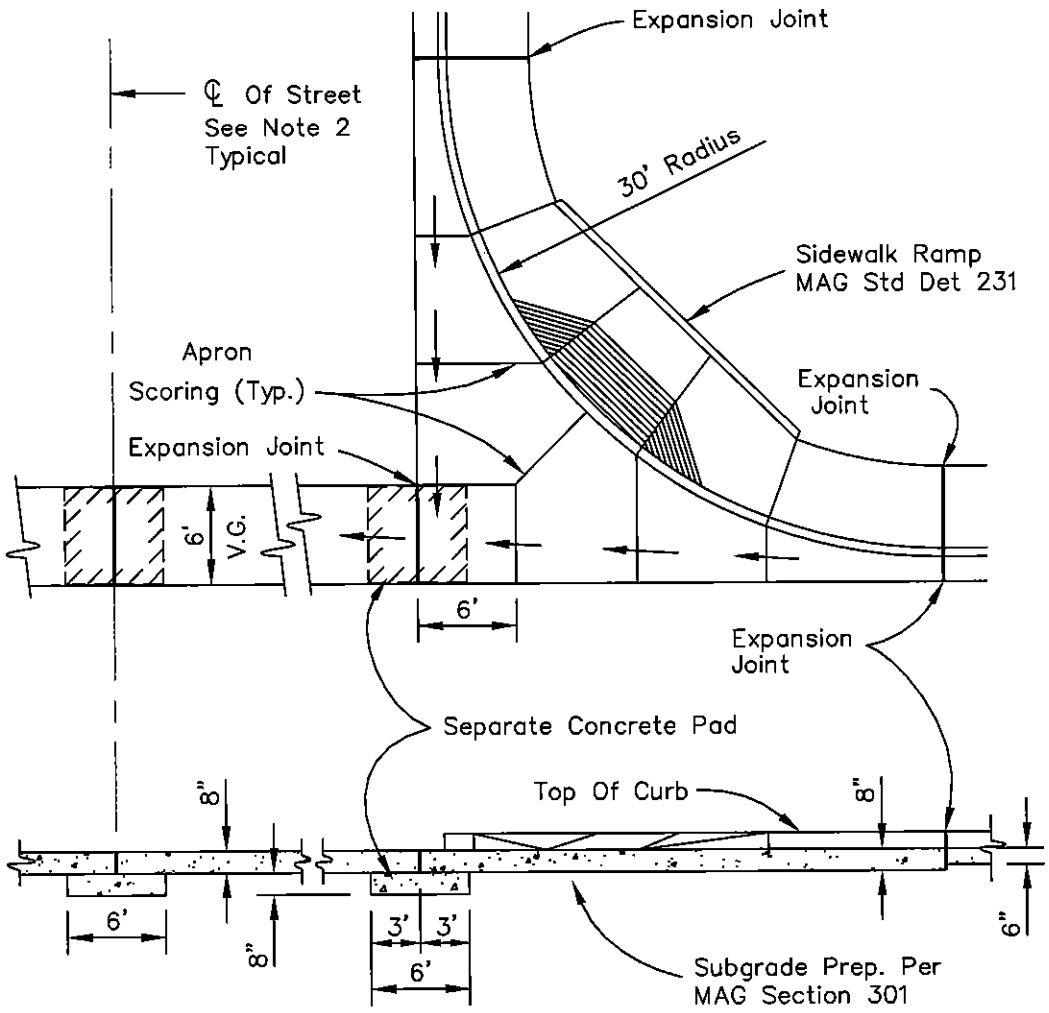


Type "A"
Raised Median

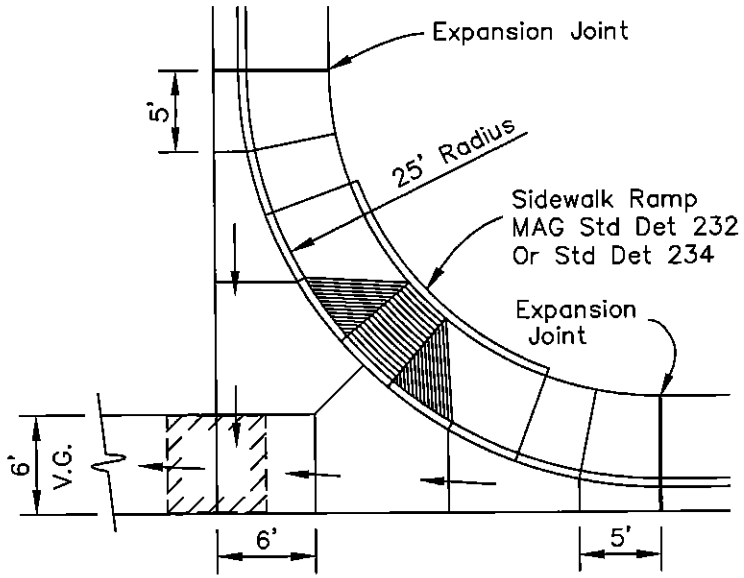
NOTES:

1. ½" Expansion Joint, ASTM D–1751 Per MAG Sec. 729, Every 50'.
2. Contraction Joints Per COS Supplemental Specifications Sec. 342, Every 10'.
3. Materials And Construction Per COS Supplemental Specifications Sec. 342.

DETAIL NO. 2239	City of Scottsdale Standard Details	MEDIAN CONCRETE PAVERS	DETAIL NO. 2239

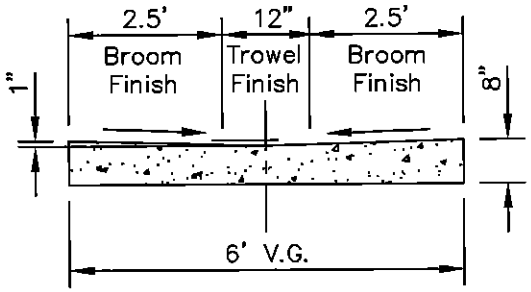


SECTION THRU APRON FLOW-LINE



NOTES

1. All Concrete To Be Class "A", MAG Section 725.
2. Use A Construction Joint Or Contraction Joint At The ℄ Of Street. A Separate Concrete Pad Is Required With A Construction Joint.
3. ½" Expansion Joint, ASTM D-1751 Per MAG Section 729.
4. Return Curb and Sidewalk to be Monolithically Poured.



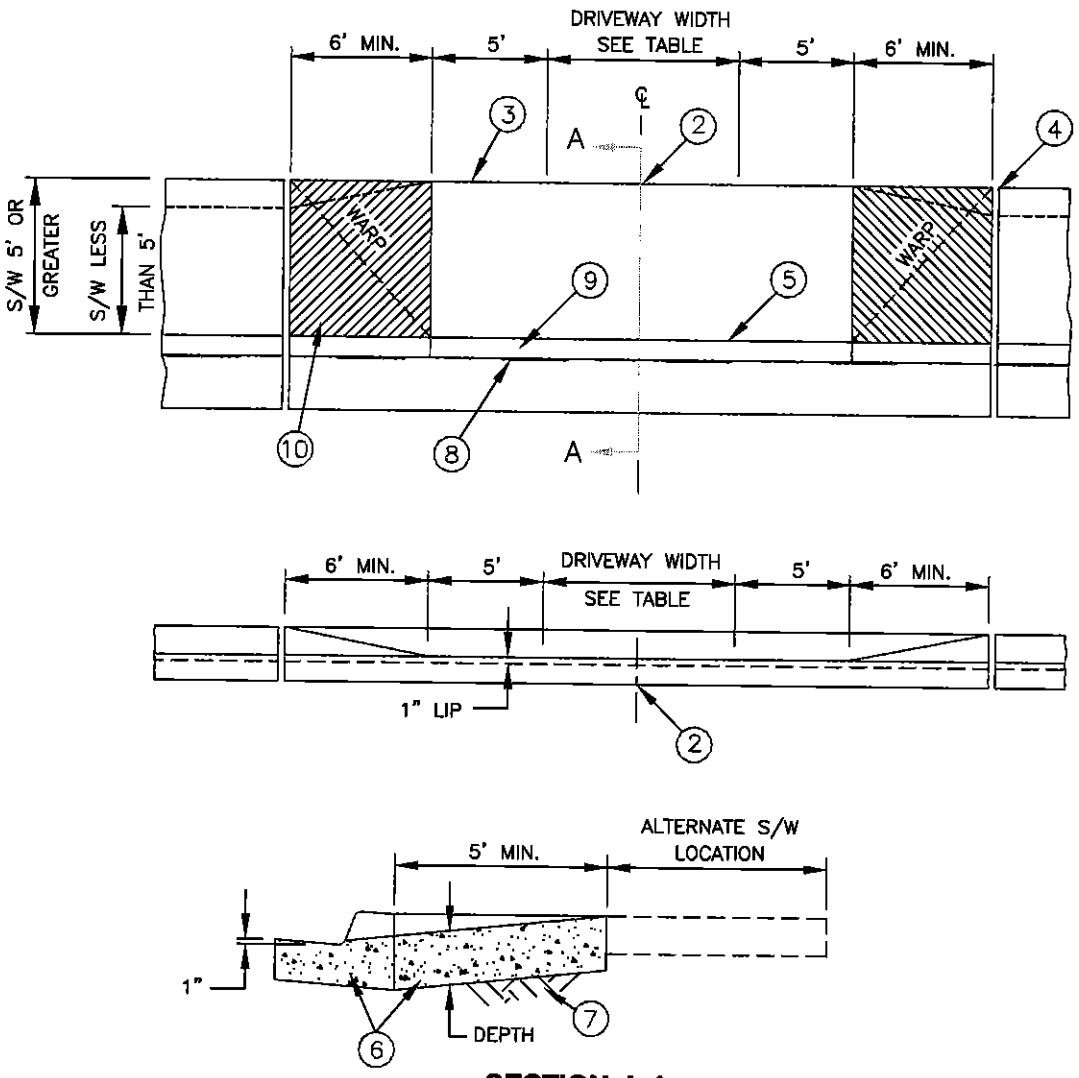
SECTION THRU VALLEY GUTTER

REVISED 2/27/01

DETAIL NO. 2240 | City of Scottsdale Standard Details

6' VALLEY GUTTER & APRON

DETAIL NO. 2240



SECTION A-A

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 OR FUTURE SIDEWALK.
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. 1/4" GROOVES AT 1" ON CENTER FULL WIDTH OF 6' WARP SECTION, EACH SIDE OF DRIVEWAY. SEE DETAIL A, COS DETAIL 2232.

COMMERCIAL & INDUSTRIAL				
DRIVEWAY WIDTH	MIN.	MAX.	CLASS	DEPTH
COMMERCIAL ZONING	+ 16'	40'	B	8"
INDUSTRIAL ZONING	+ 16'	40'	B	8"
+ 24' MIN. FOR TWO WAY TRAFFIC				
RESIDENTIAL				
DRIVEWAY WIDTH	MIN.	MAX.	CLASS	DEPTH
MAJOR STREET	16'	30'	B	8"
COLLECTOR STREET	*12'	30'	B	8"
LOCAL STREET	12'	30'	B	8"
* 16' DESIRABLE				

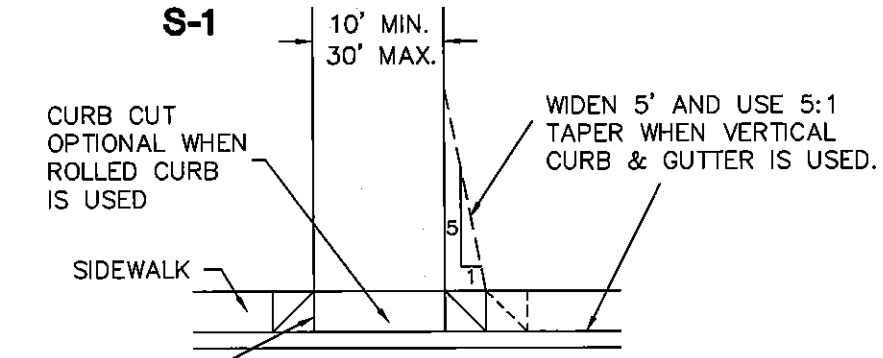
DETAIL NO. 2250 | City of Scottsdale Standard Details

DRIVEWAY ENTRANCES

DETAIL NO. 2250

REVISED 3/28/02

S-1

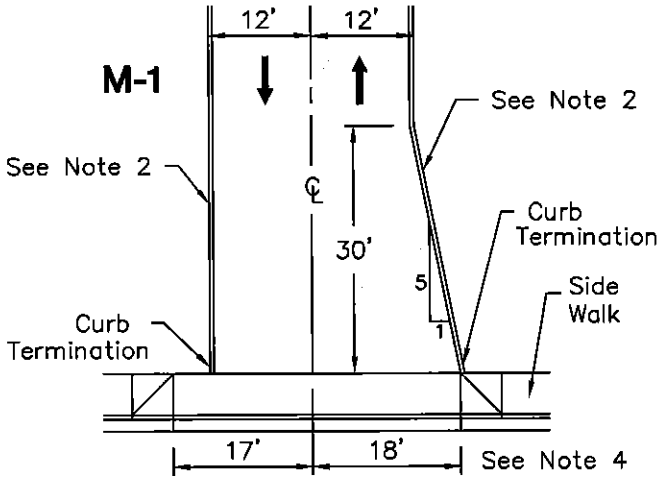


SINGLE FAMILY UNIT

CONSTRUCTION NOTES

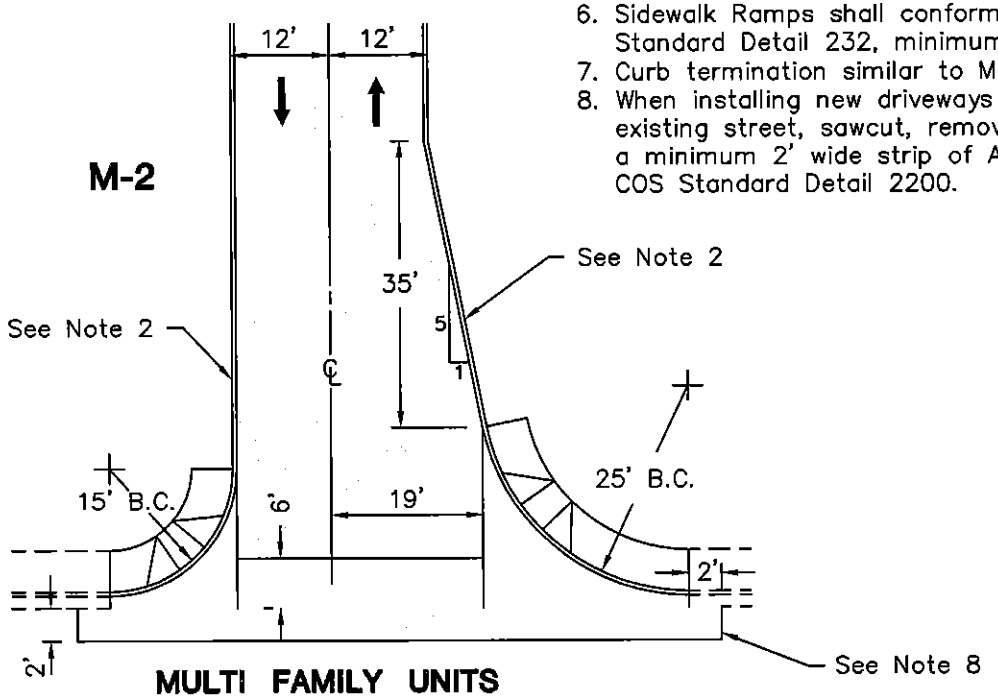
1. Sidewalk shall conform to MAG Standard Detail 230 and C.O.S. Sec. 340.
2. Curb as called for on plans.
3. Curb & Gutter shall conform to MAG Standard Detail 220. Single Curb shall conform to MAG Standard Detail 222.
4. Driveway Entrances shall conform to COS Standard Detail 2250. Driveways shall be 2–1/2" A.C. R–19 on 6" A.B.C. unless otherwise noted. See plans for driveway limits.
5. Valley Gutter shall conform to COS Standard Detail 2240.
6. Sidewalk Ramps shall conform to MAG Standard Detail 232, minimum 8" thick.
7. Curb termination similar to MAG Std. Det 222.
8. When installing new driveways along an existing street, sawcut, remove & replace a minimum 2' wide strip of A.C. pavement per COS Standard Detail 2200.

M-1



MULTI FAMILY UNITS

M-2



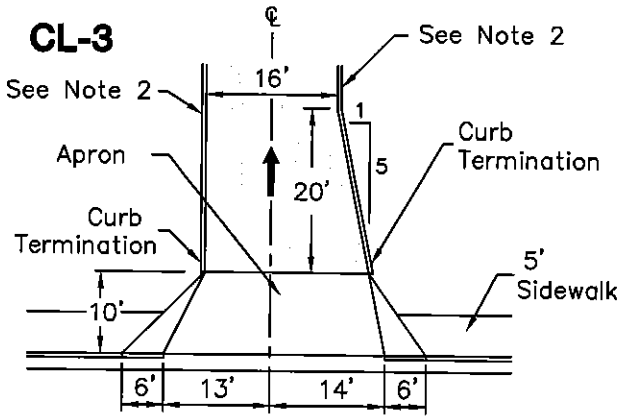
MULTI FAMILY UNITS

DETAIL NO. 2255	City of Scottsdale Standard Details	RESIDENTIAL DRIVEWAYS	DETAIL NO. 2255

REVISED 4/7/00

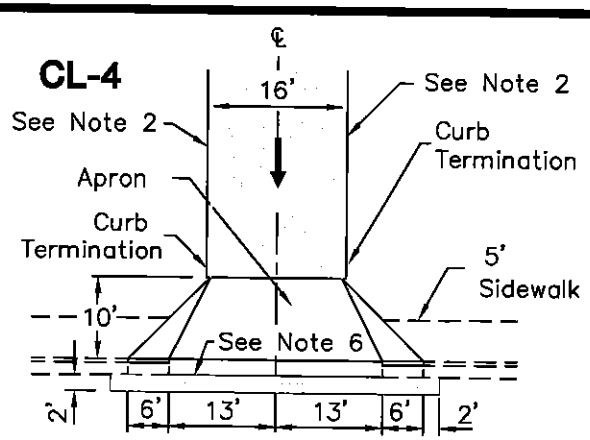
REVISED 4/1/00

CL-3



ONE WAY INGRESS

CL-4

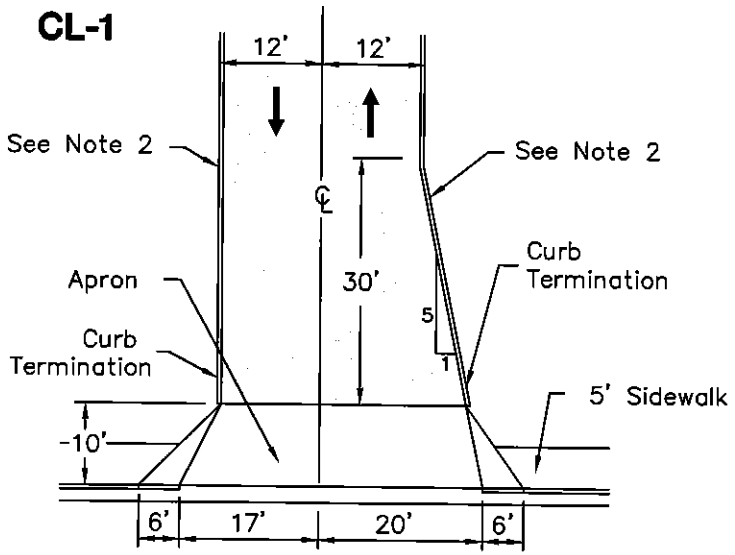


ONE WAY EGRESS

CONSTRUCTION NOTES

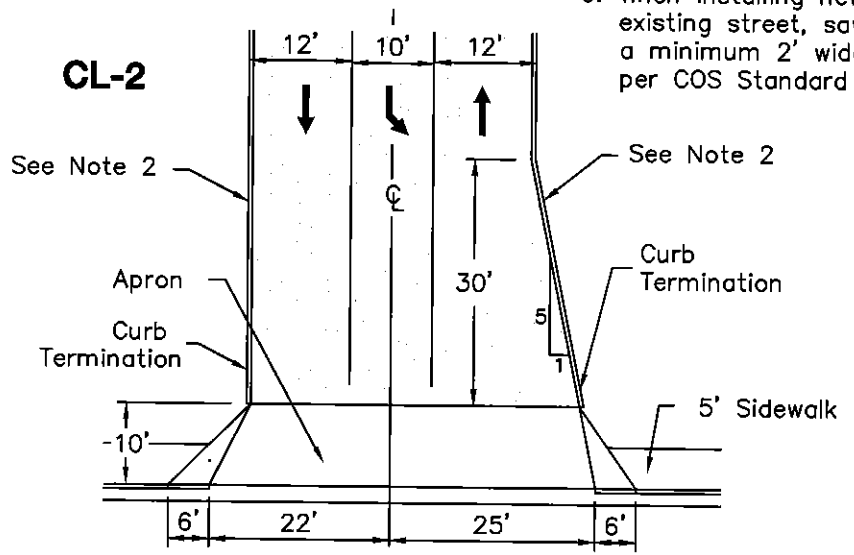
1. Sidewalk shall conform to MAG Standard Detail 230 and C.O.S. Sec. 340.
2. Curb as called for on plans.
3. Curb & Gutter shall conform to MAG Standard Detail 220. Single Curb shall conform to MAG Standard Detail 222.
4. Driveway Entrances shall conform to COS Standard Detail 2250 except for modifications as noted. Driveways shall be 2–1/2" A.C. A–19 on 6" A.B.C. unless otherwise noted. See plans for driveway limits.
5. Curb termination similar to MAG Std. Det. 222.
6. When installing new driveways along an existing street, sawcut, remove & replace a minimum 2' wide strip of A.C. pavement per COS Standard Detail 2200.

CL-1



TWO WAY

CL-2



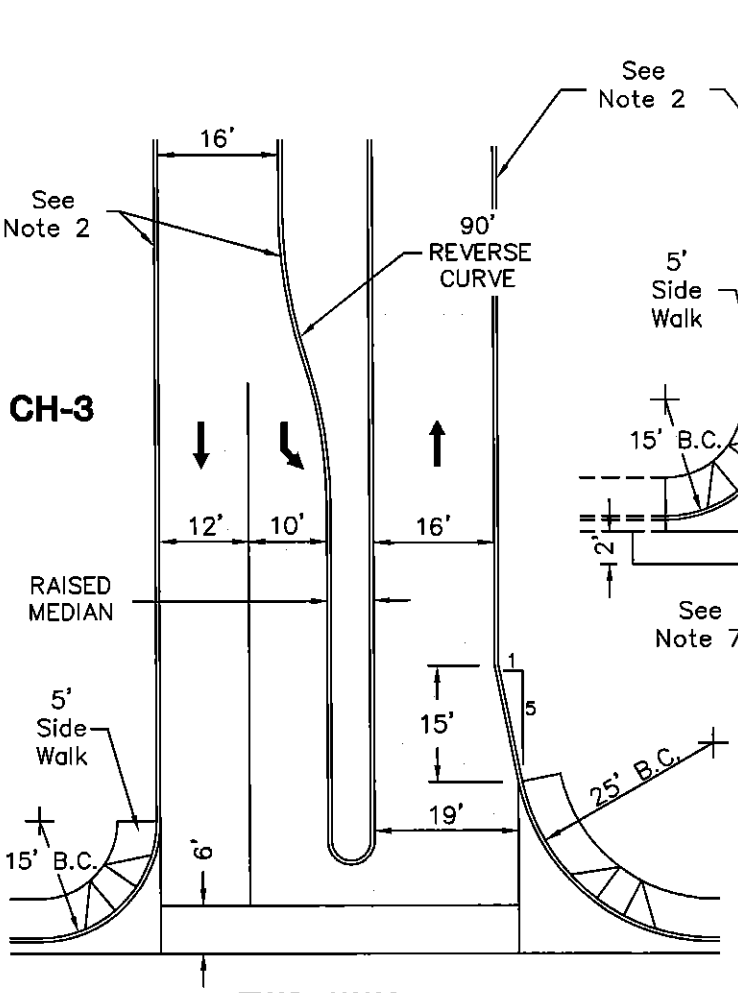
TWO WAY WITH TWO EGRESS LANES

DETAIL NO. 2256	City of Scottsdale Standard Details	COMMERCIAL/INDUSTRIAL DRIVEWAYS-TYPE CL	DETAIL NO. 2256

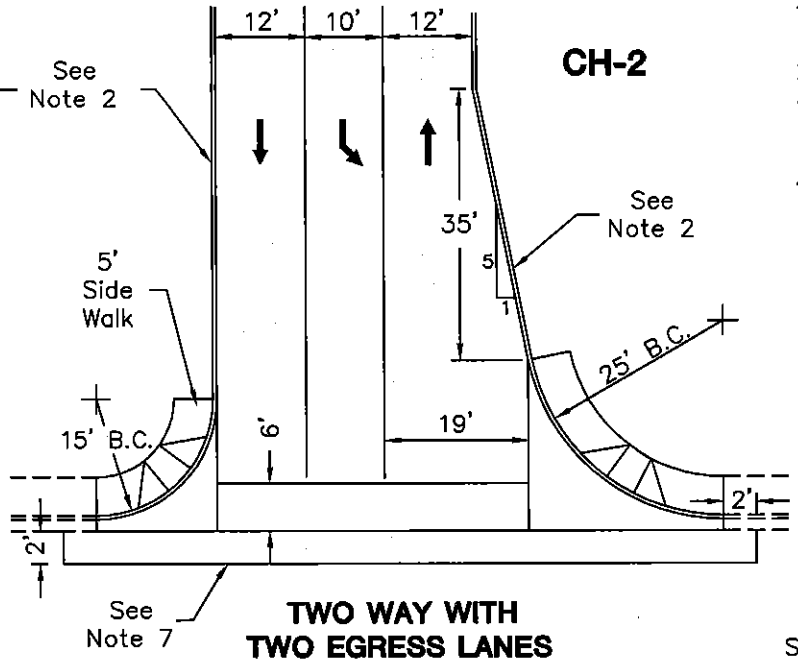
REVISED 4/1/00

CONSTRUCTION NOTES

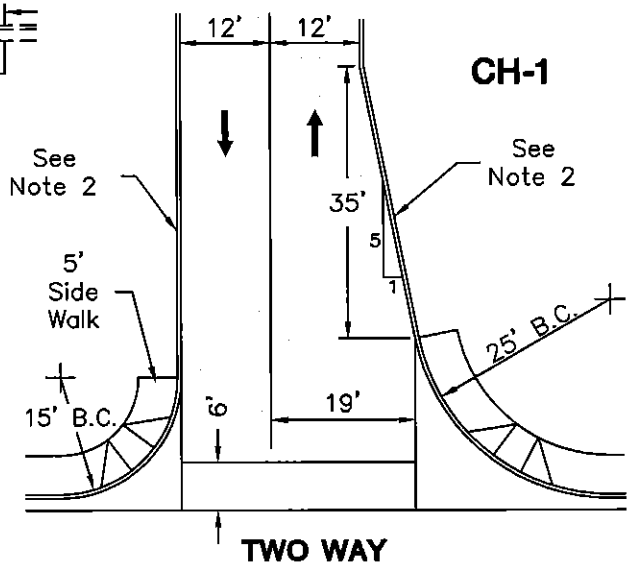
1. Sidewalk shall conform to MAG Standard Standard Detail 230 and C.O.S. Sec. 340.
2. Curb as called for on plans.
3. Curb & Gutter shall conform to MAG Standard Detail 220. Single Curb shall conform to MAG Standard Detail 222.
4. Driveways shall be 2–1/2" A.C. A–19 on 6" A.B.C. unless otherwise noted. See plans for driveway limits.
5. Valley Gutter shall conform to COS Standard Detail 2240.
6. Sidewalk Ramps shall conform to MAG Standard Detail 232, Minimum 8" Thick.
7. When installing new driveways along an existing street, sawcut, remove & replace a minimum 2' wide strip of A.C. pavement per COS Standard Detail 2200.



TWO WAY
RAISED MEDIAN



TWO WAY WITH
TWO EGRESS LANES

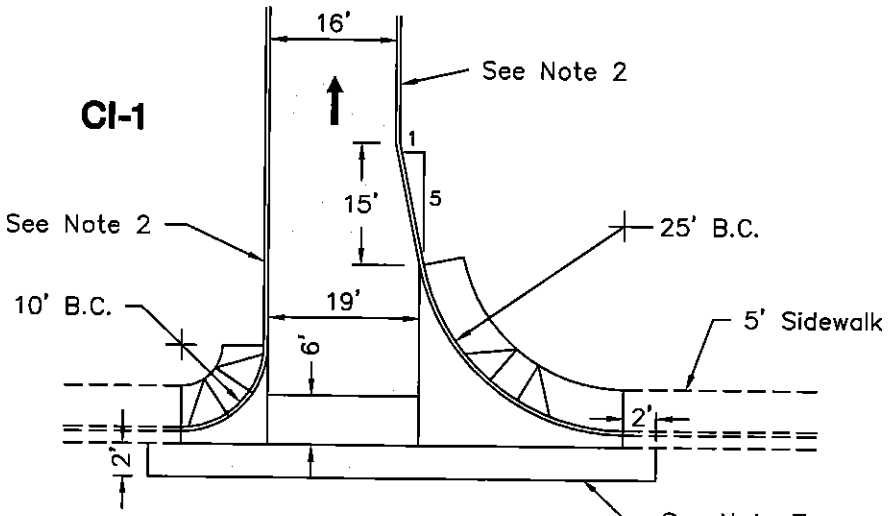


TWO WAY

DETAIL NO. 2257	City of Scottsdale Standard Details	COMMERCIAL/INDUSTRIAL DRIVEWAYS-TYPE CH	DETAIL NO. 2257

REVISED 4/1/00

CI-1

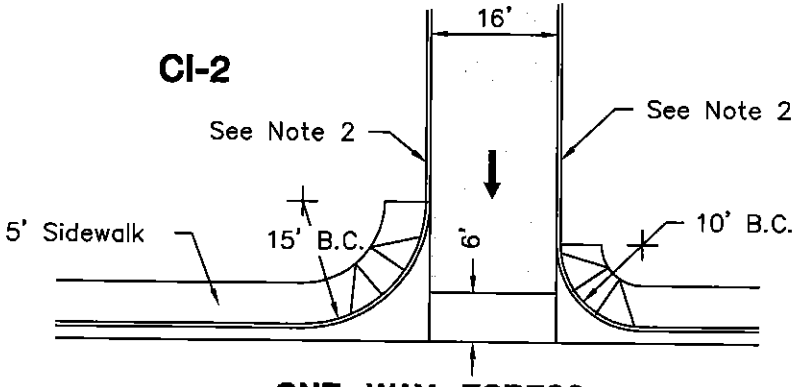


ONE WAY INGRESS

CONSTRUCTION NOTES

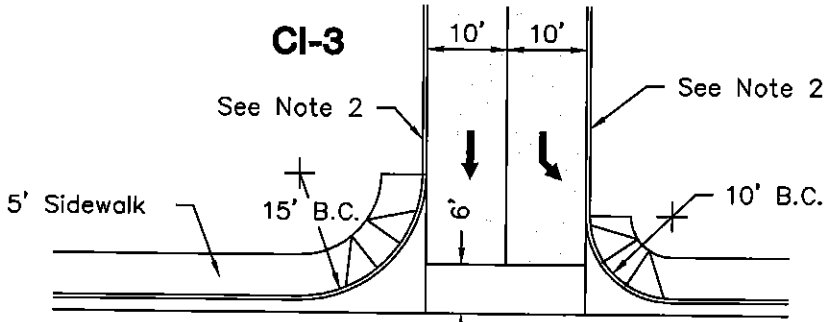
1. Sidewalk shall conform to MAG Standard Standard Detail 230 and C.O.S. Sec. 340.
2. Curb as called for on plans.
3. Curb & Gutter shall conform to MAG Standard Detail 220. Single Curb shall conform to MAG Standard Detail 222.
4. Driveways shall be 2–1/2" A.C. A–19 on 6" A.B.C. unless otherwise noted. See plans for driveway limits.
5. Valley Gutter shall conform to COS Standard Detail 2240.
6. Sidewalk Ramps shall conform to MAG Standard Detail 232, Minimum 8" Thick.
7. When installing new driveways along an existing street, sawcut, remove & replace a minimum 2' wide strip of A.C. pavement per COS Standard Detail 2200.

CI-2



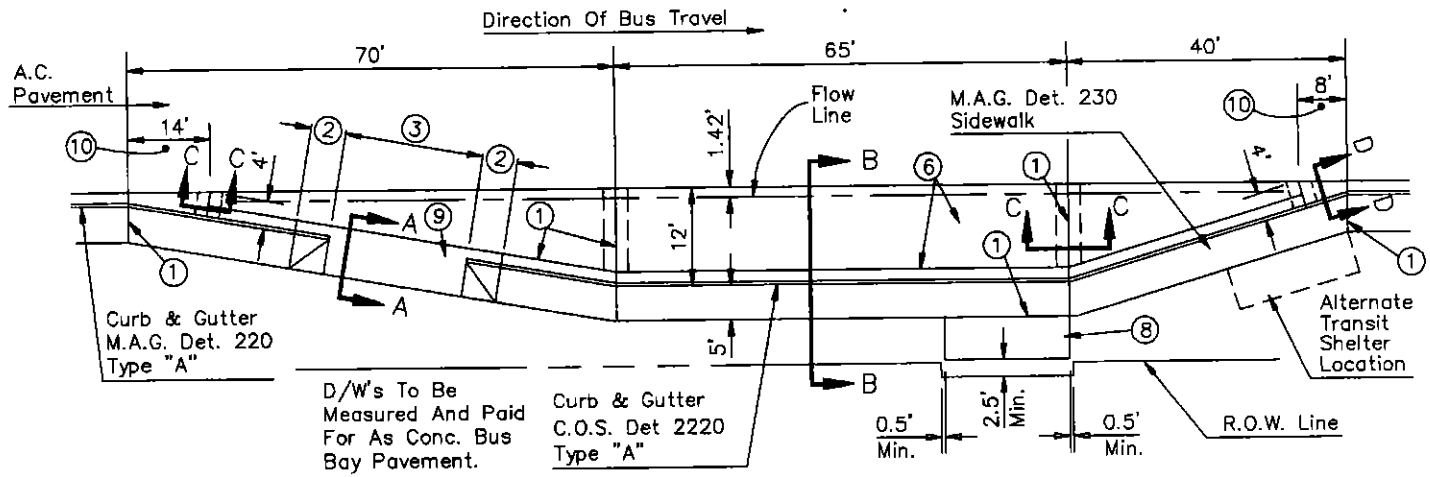
ONE WAY EGRESS

CI-3

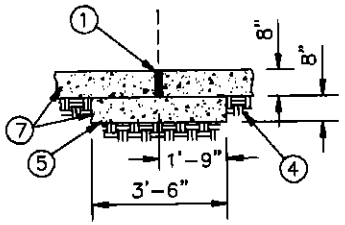


TWO LANES
ONE WAY EGRESS

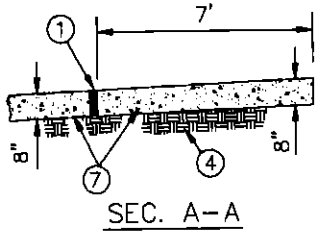
DETAIL NO. 2258	City of Scottsdale Standard Details	COMMERCIAL/INDUSTRIAL DRIVEWAYS-TYPE CI	DETAIL NO. 2258



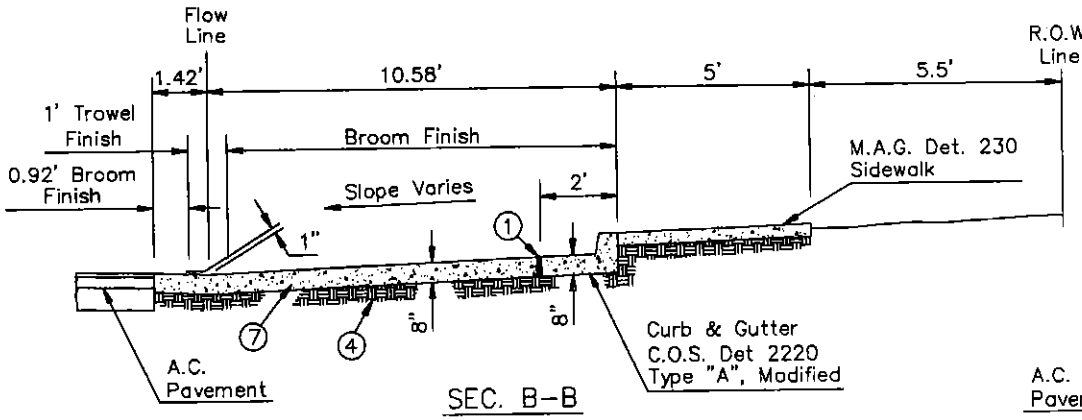
PLAN VIEW



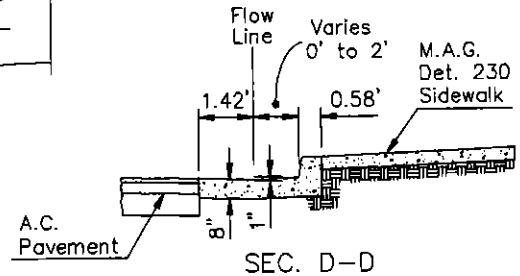
SEC. C-C



SEC. A-A



SEC. B-B

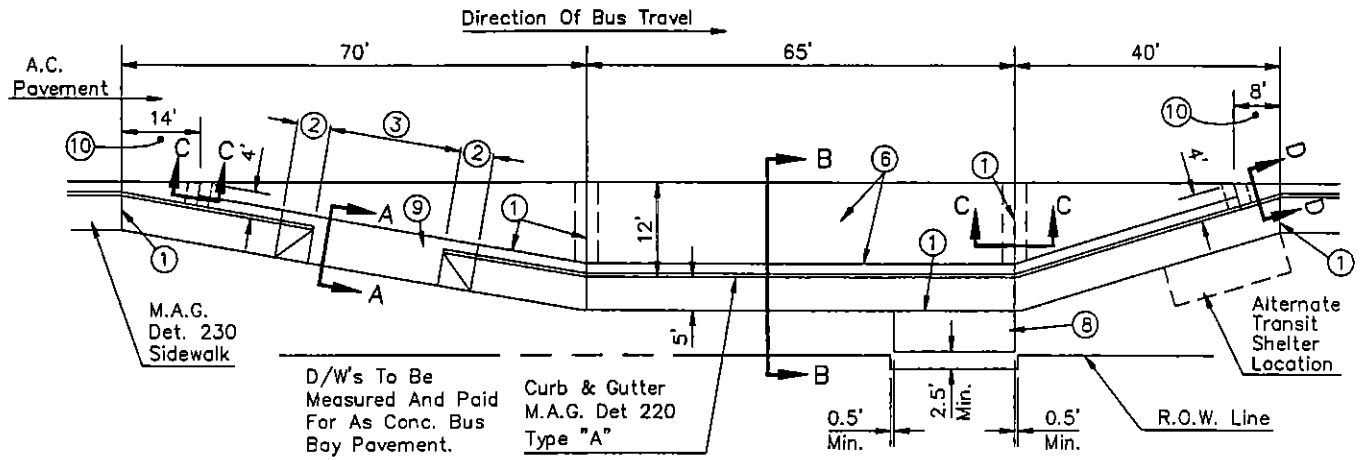


SEC. D-D

1. 1/2" BITUMINOUS PREFORMED EXPANSION JOINT FILLER, A.S.T.M. D-1751 PER MAG SEC. 729, INSTALL PER COS SEC. 340.3.
2. TRANSITION CURB FACE FROM 6" TO 0" HEIGHT IN 5'
3. D/W WIDTHS & LOCATIONS VARY, SEE PLANS. MAINTAIN 10' MIN. CLEARANCE BETWEEN DRIVEWAYS AND SHELTER PAD. WHEN DRIVE-WAY WIDTH EXCEEDS 22', PROVIDE A CONTRACTION JOINT ON D/W ℄.
4. SUBGRADE PREPARATION PER MAG SECTION 301.
5. CONCRETE PAD TO BE POURED SEPARATELY FROM CONCRETE BUS BAY PAVEMENT.
6. CONTRACTION JOINTS IN THE BUS BAY PAVEMENT SHALL MATCH THOSE IN THE CURB.
7. CONCRETE SHALL BE CLASS "A" PER MAG SECTION 725
8. TRANSIT SHELTER PAD, PER COS STD DETAIL 2269.
9. NEW CONCRETE D/W TO BE POURED WITH BUS BAY PAVEMENT.
10. CURB & GUTTER TO BUS BAY PAVEMENT TRANSITION.

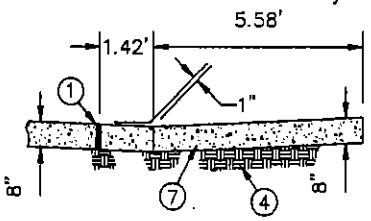
REVISED 3/17/99

DETAIL NO. 2266-1	City of Scottsdale Standard Details	APPROVED BY: Scottsdale Standards & Specifications Committee	MID-BLOCK BUS BAY - TYPE "A'	DETAIL NO. 2266-1

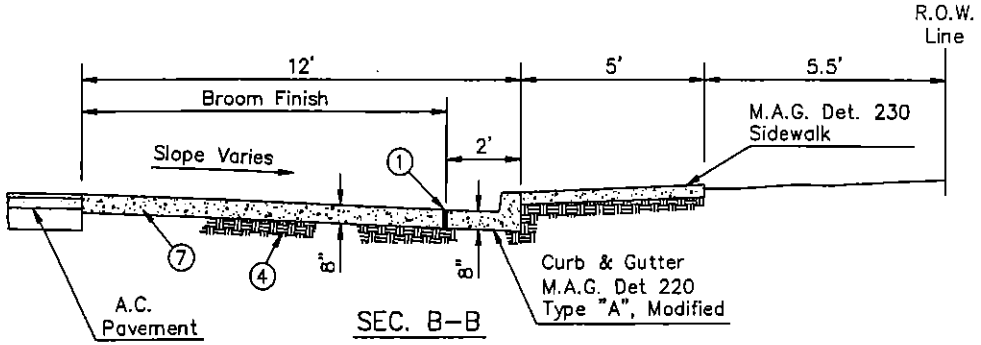


PLAN VIEW

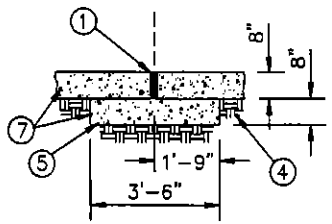
1. 1/2" BITUMINOUS PREFORMED EXPANSION JOINT FILLER, A.S.T.M. D-1751 PER MAG SECTION 729.
2. TRANSITION CURB FACE FROM 6" TO 0" HEIGHT IN 5'
3. D/W WIDTHS & LOCATIONS VARY, SEE PLANS. MAINTAIN 10' MIN. CLEARANCE BETWEEN DRIVEWAYS AND SHELTER PAD. WHEN DRIVE-WAY WIDTH EXCEEDS 22', PROVIDE A CONTRACTION JOINT ON D/W ℄.
4. SUBGRADE PREPARATION PER MAG SECTION 301.
5. CONCRETE PAD TO BE POURED SEPARATELY FROM CONCRETE BUS BAY PAVEMENT.
6. CONTRACTION JOINTS IN THE BUS BAY PAVEMENT SHALL MATCH THOSE IN THE CURB.
7. CONCRETE SHALL BE CLASS "A" PER MAG SECTION 725
8. TRANSIT SHELTER PAD, PER COS STD DETAIL 2269.
9. NEW CONCRETE D/W TO BE POURED WITH BUS BAY PAVEMENT.
10. CURB & GUTTER TO BUS BAY PAVEMENT TRANSITION.



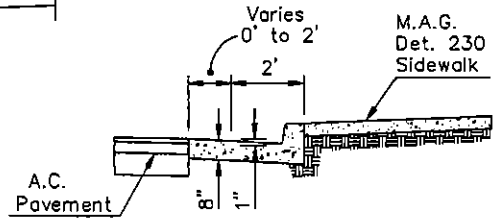
SEC. A-A



SEC. B-B



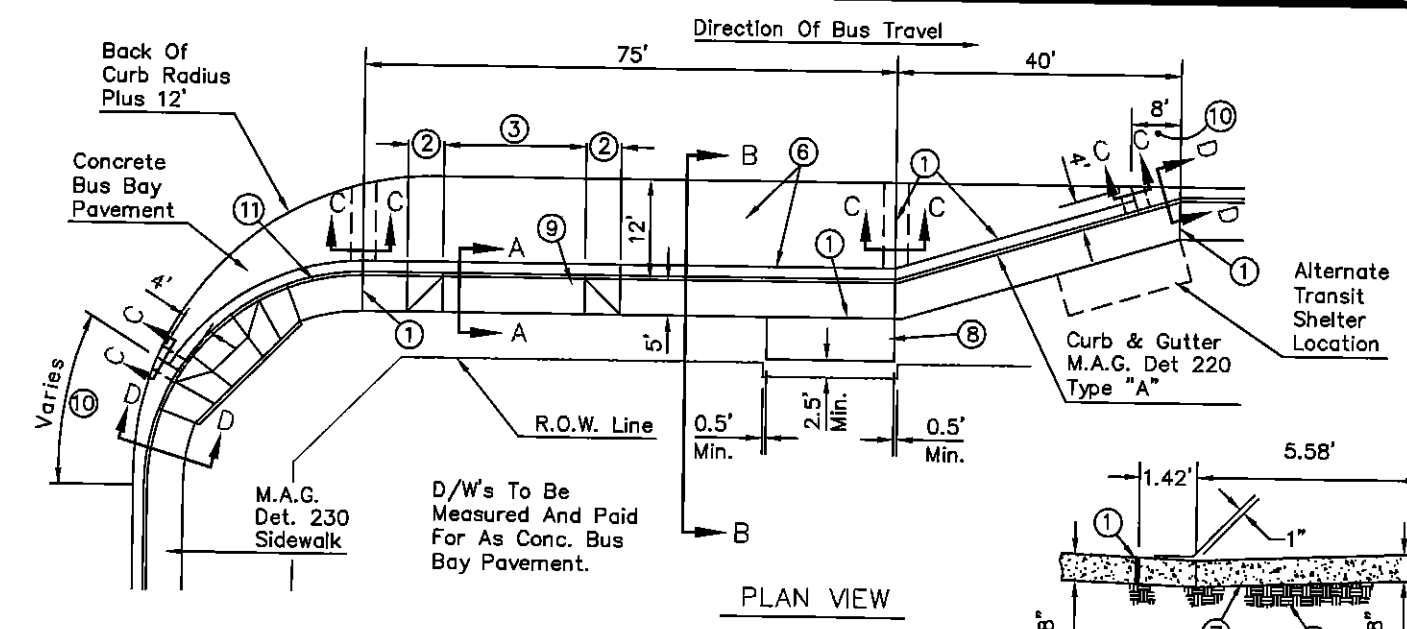
SEC. C-C



SEC. D-D

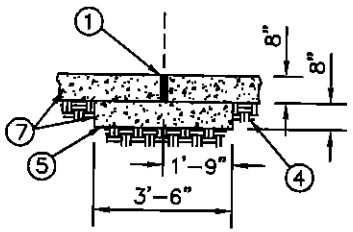
REVISED 1/4/93

DETAIL NO.		APPROVED BY:		DETAIL NO.
2266-2	City of Scottsdale Standard Details		MID-BLOCK BUS BAY - TYPE "B"	2266-2

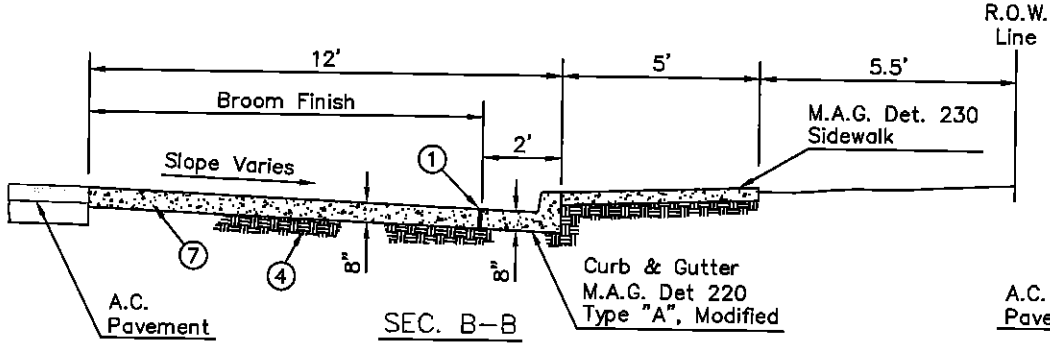


SEC. A–A

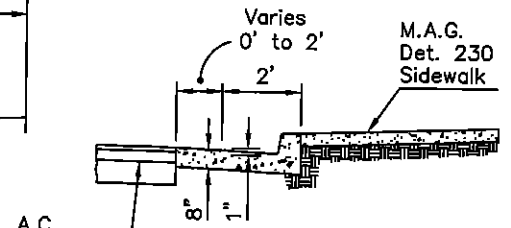
1. 1/2" BITUMINOUS PREFORMED EXPANSION JOINT FILLER, A.S.T.M. D–1751 PER MAG SECTION 729.
2. TRANSITION CURB FACE FROM 6" TO 0" HEIGHT IN 5'
3. D/W WIDTHS & LOCATIONS VARY, SEE PLANS. MAINTAIN 10' MIN. CLEARANCE BETWEEN DRIVEWAYS AND SHELTER PAD. WHEN DRIVE–WAY WIDTH EXCEEDS 22', PROVIDE A CONTRACTION JOINT ON D/W ℄.
4. SUBGRADE PREPARATION PER MAG SECTION 301.
5. CONCRETE PAD TO BE POURED SEPARATELY FROM CONCRETE BUS BAY PAVEMENT.
6. CONTRACTION JOINTS IN THE BUS BAY PAVEMENT SHALL MATCH THOSE IN THE CURB.
7. CONCRETE SHALL BE CLASS "A" PER MAG SECTION 725
8. TRANSIT SHELTER PAD, PER COS STD DETAIL 2269.
9. NEW CONCRETE D/W TO BE POURED WITH BUS BAY PAVEMENT.
10. CURB & GUTTER TO BUS BAY PAVEMENT TRANSITION.
11. CURB RADIUS AS SHOWN ON THE PLANS



SEC. C–C



SEC. B–B

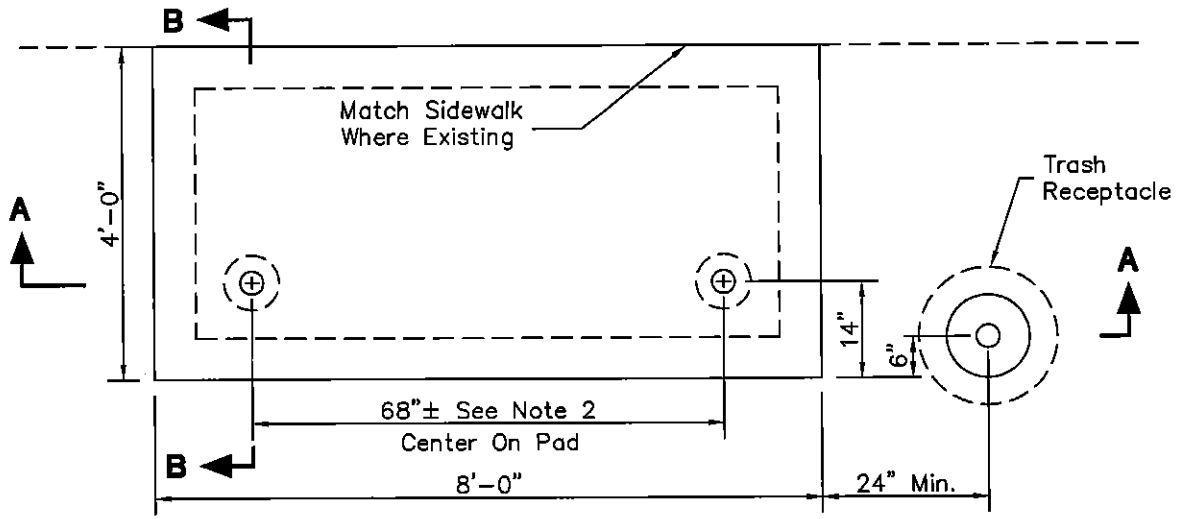


SEC. D–D

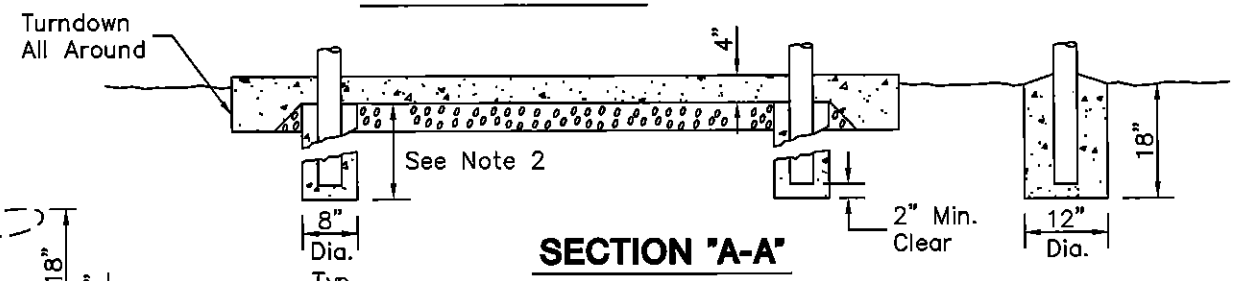
REVISED 1/4/93

DETAIL NO. 2267	City of Scottsdale Standard Details	APPROVED BY: _____	FAR - SIDE BUS BAY	DETAIL NO. 2267

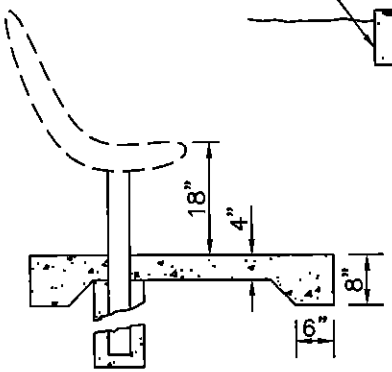
REVISED 7/1/97



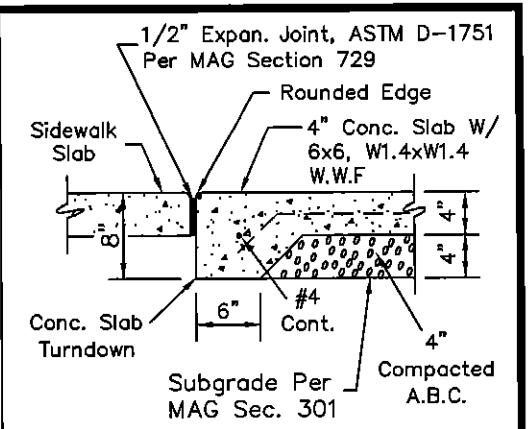
BASE SLAB PLAN



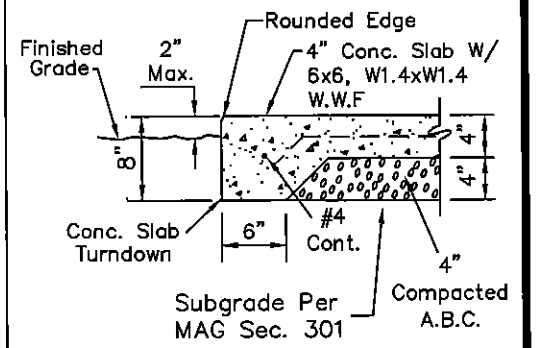
SECTION "A-A"



SECTION "B-B"



SLAB EDGE AT SIDEWALK



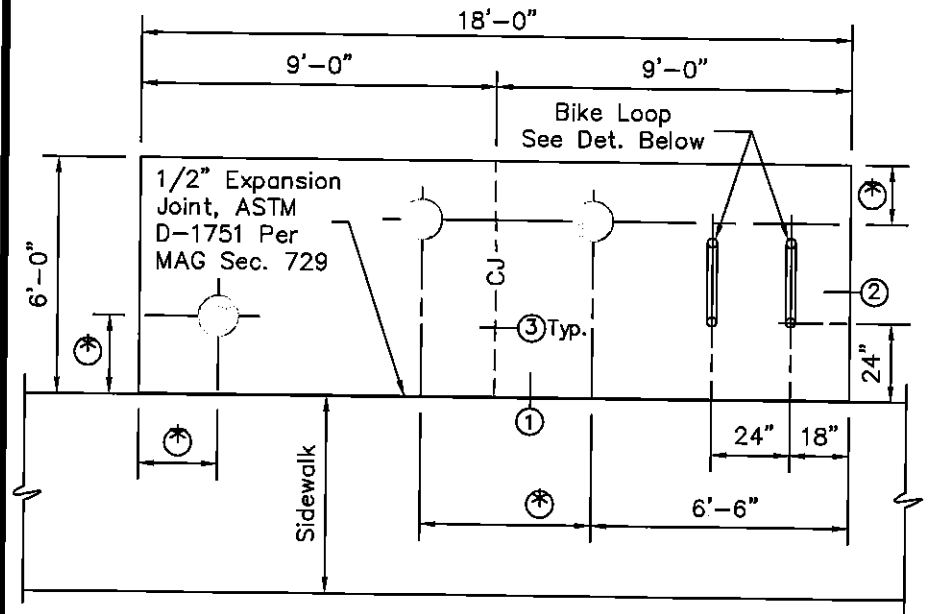
SLAB EDGE AT GRADE

NOTES:

1. Concrete shall be Class "A" per MAG Section 725. Slab surface shall be trowel finish with salt pitted appearance and random sweat. Use integral color when specified on the plans.
2. Dimensions may vary with bench style – Verify and adjust to provide clearance and bench height shown.

DETAIL NO. 2268	City of Scottsdale Standard Details	APPROVED BY: _____	BASE SLAB AND FOUNDATIONS FOR BUS STOP BENCH AND RECEPTACLES	DETAIL NO. 2268

REVISED 7/1/97



SHELTER SLAB PLAN

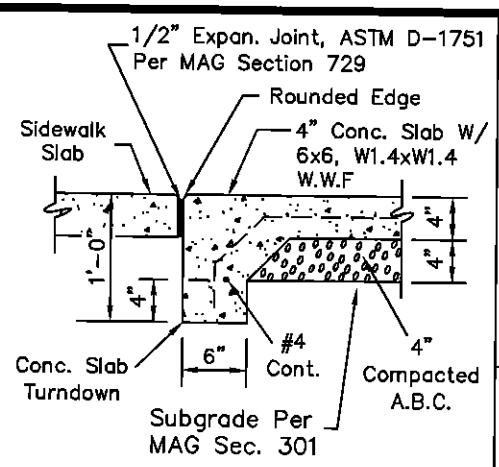
NOTES:

1. Concrete shall be Class "A" per MAG Sec. 725. Slab surface shall be trowel finish with salt pitted appearance and random sweat. Use integral color when specified on the plans.
2. "⊛" Blockout locations for bench and trash receptacle as shown on Plans or specified by the Engineer.

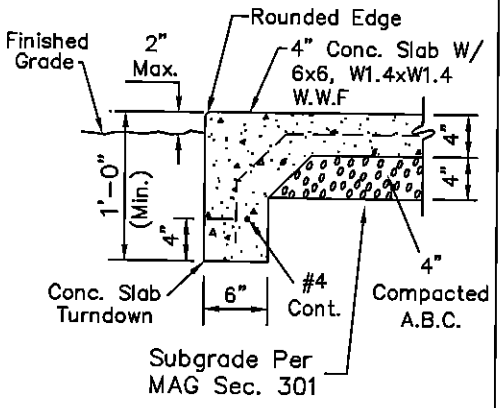
LEGEND

- - - - CJ - - Control Joints

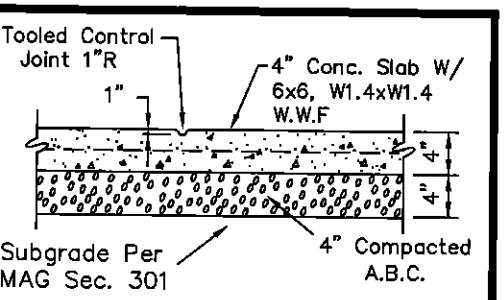
12" Dia. Blockout For Bench & Trash Receptacle



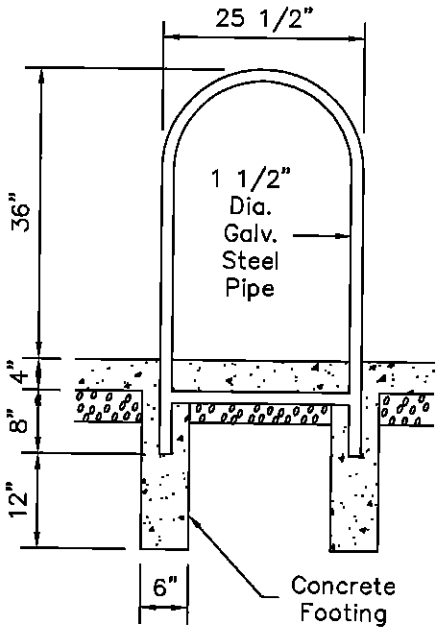
① SLAB EDGE AT SIDEWALK



② SLAB EDGE AT GRADE

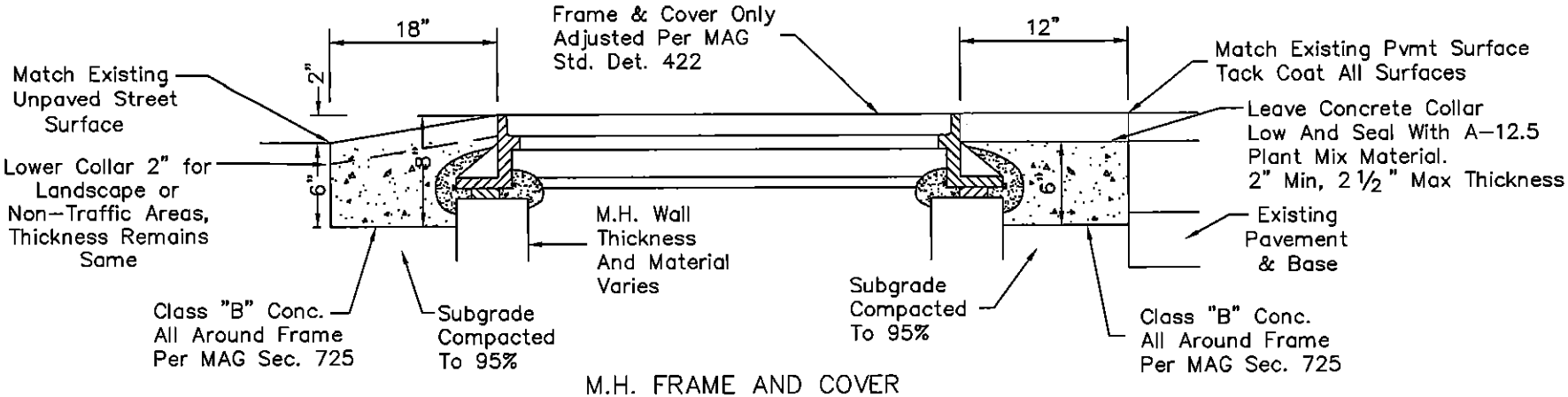


③ SLAB CONTROL JOINTS



BIKE LOOP DETAIL

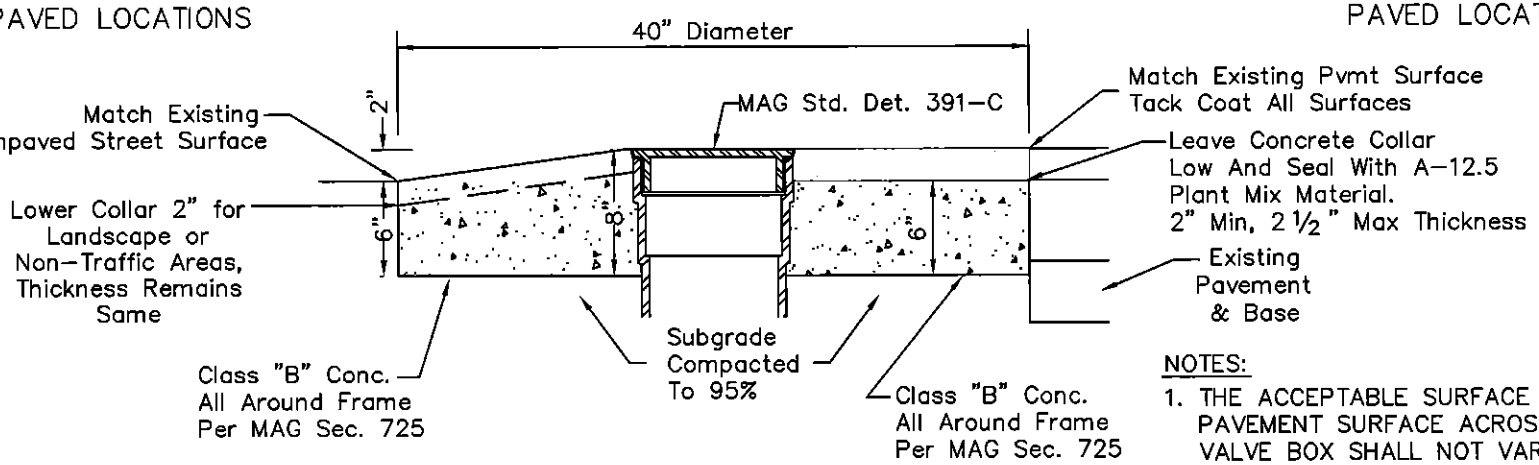
DETAIL NO. 2269	City of Scottsdale Standard Details	APPROVED BY: _____	TRANSIT SHELTER PAD	DETAIL NO. 2269



M.H. FRAME AND COVER

UNPAVED LOCATIONS

PAVED LOCATIONS



VALVE BOX FRAME AND COVER

NOTES:

1. THE ACCEPTABLE SURFACE PROFILE FROM THE PAVEMENT SURFACE ACROSS THE MANHOLE OR VALVE BOX SHALL NOT VARY MORE THAN 1/4 INCH FROM THE LOWER EDGE OF A 12 FOOT STRAIGHTEDGE WHEN THE STRAIGHTEDGE IS PLACED PARALLEL AND PERPENDICULAR TO THE CENTERLINE OF THE ROADWAY.

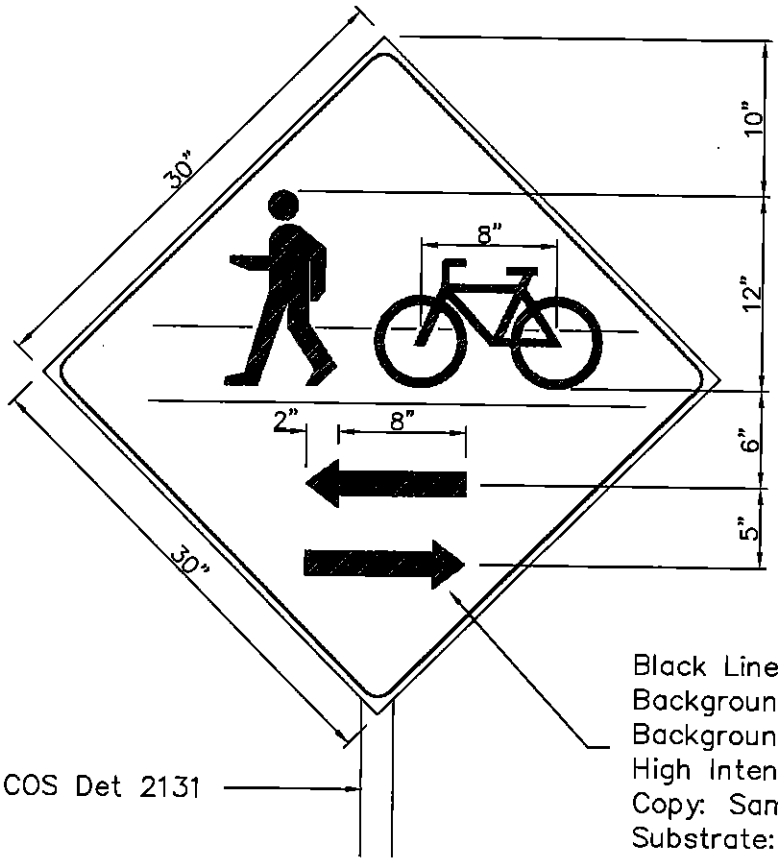
REVISED 2/27/01

DETAIL NO. 2270

City of Scottsdale Standard Details

FRAME & COVER GRADE ADJUSTMENT

DETAIL NO. 2270

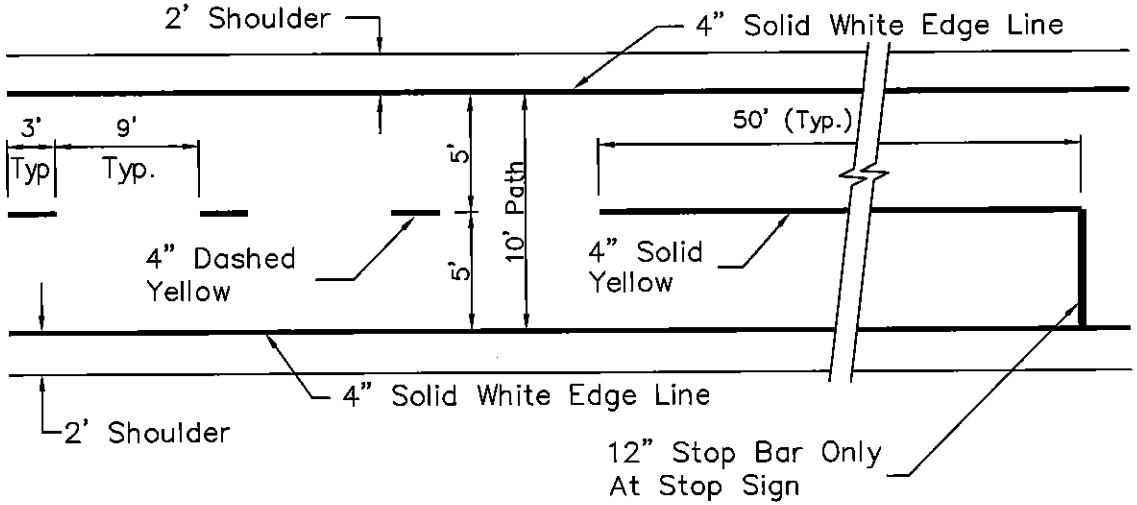


Black Lines On Yellow Reflectorized Background (Typ.)
Background: Super Engineer Grade Or High Intensity Sheeting
Copy: Same As Above
Substrate: 0.080 Gauge Treated Aluminum

Install Per COS Det 2131

MULTI-USE PATH CROSSING SIGN

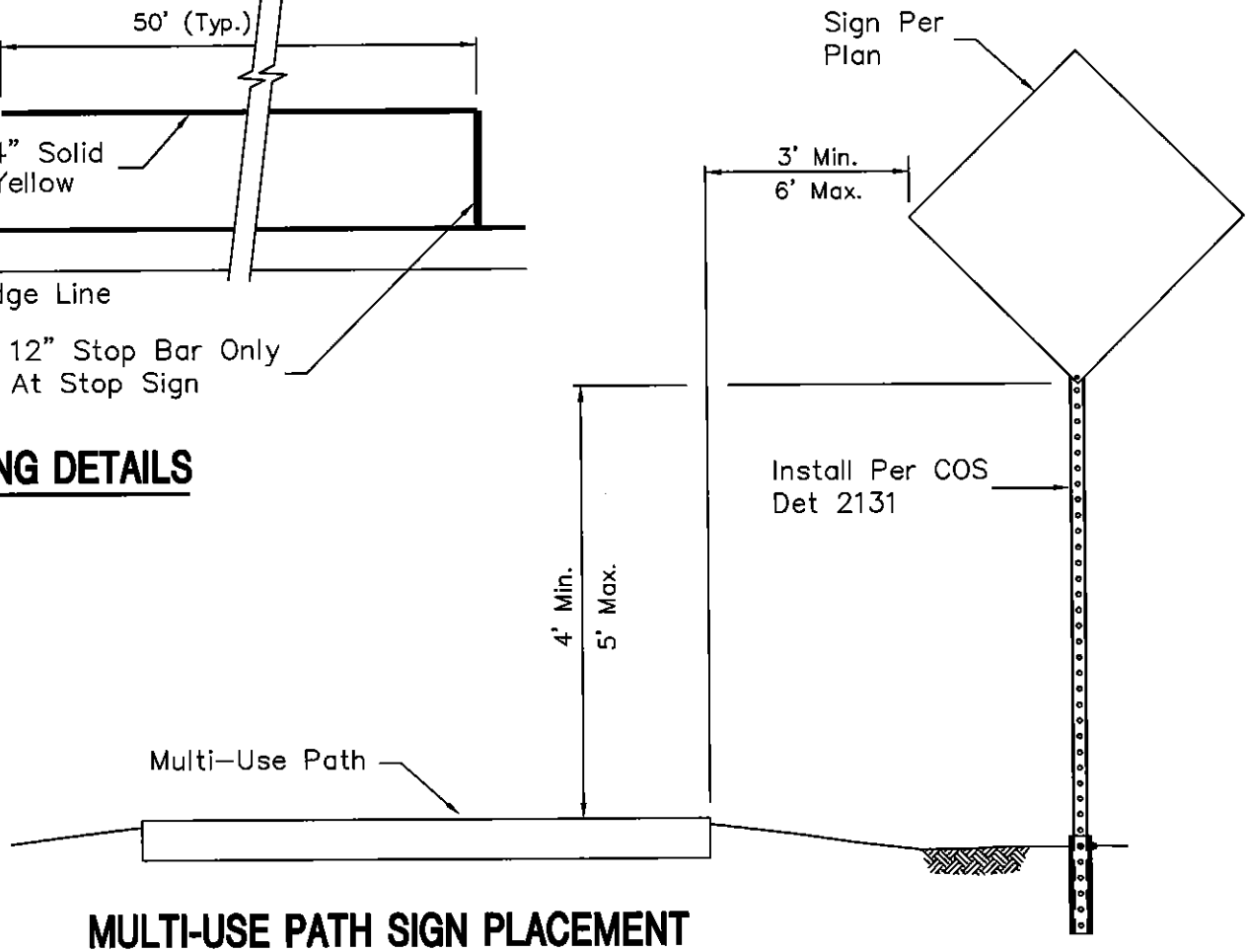
DETAIL NO. 2281	City of Scottsdale Standard Details	APPROVED BY:	MULTI-USE PATH CROSSING SIGN	DETAIL NO. 2281



MULTI-USE PATH STRIPING DETAILS

NOTE:

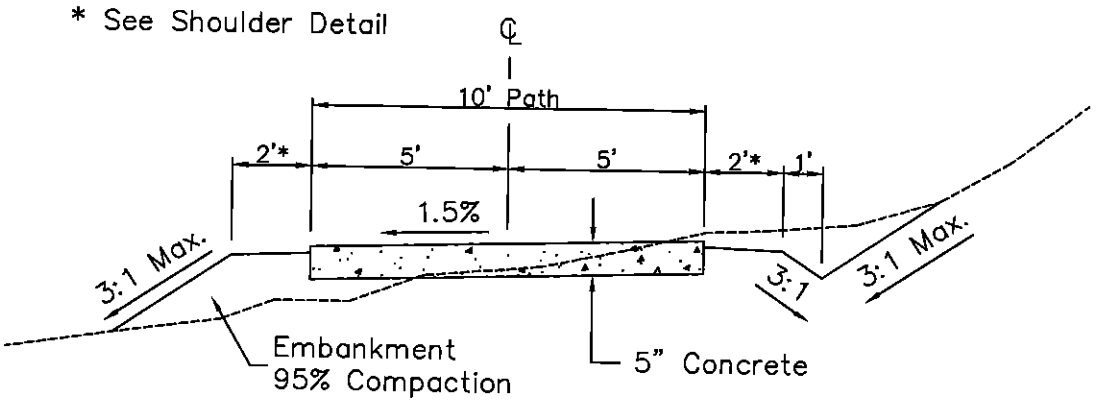
Striping shall be reflectorized paint with glass beads per COS Specifications Sec. 402.2



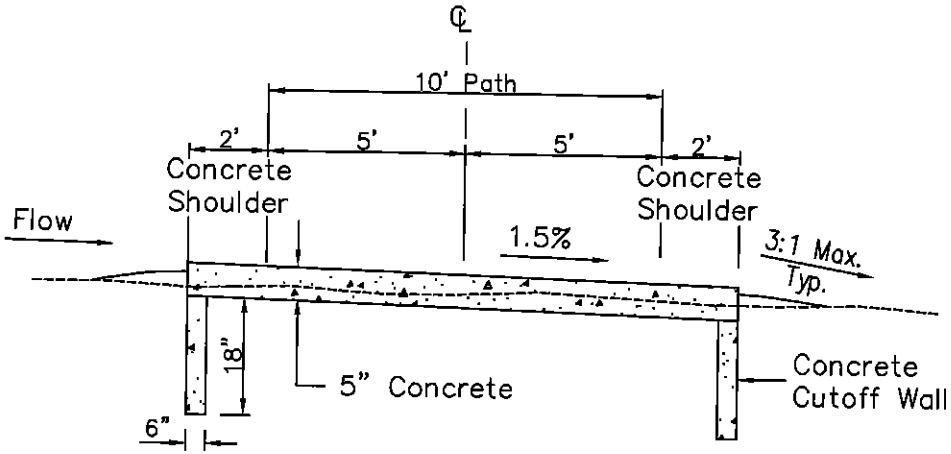
MULTI-USE PATH SIGN PLACEMENT

DETAIL NO. 2282	City of Scottsdale Standard Details	APPROVED BY:	MULTI-USE PATH STRIPING AND SIGNING	DETAIL NO. 2282

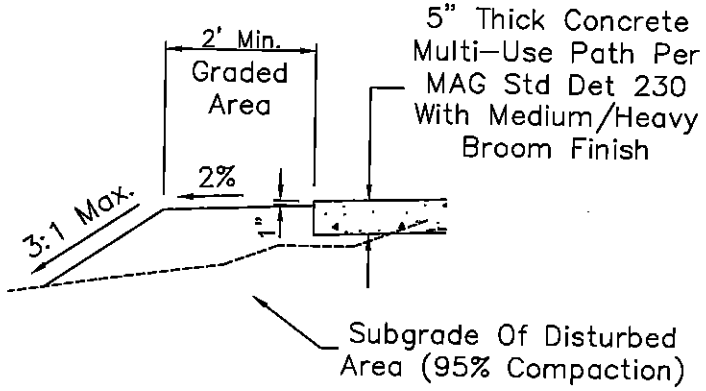
REVISED: 2/26/01



MULTI-USE PATH DETAIL



MULTI-USE PATH WET AREA CROSSING



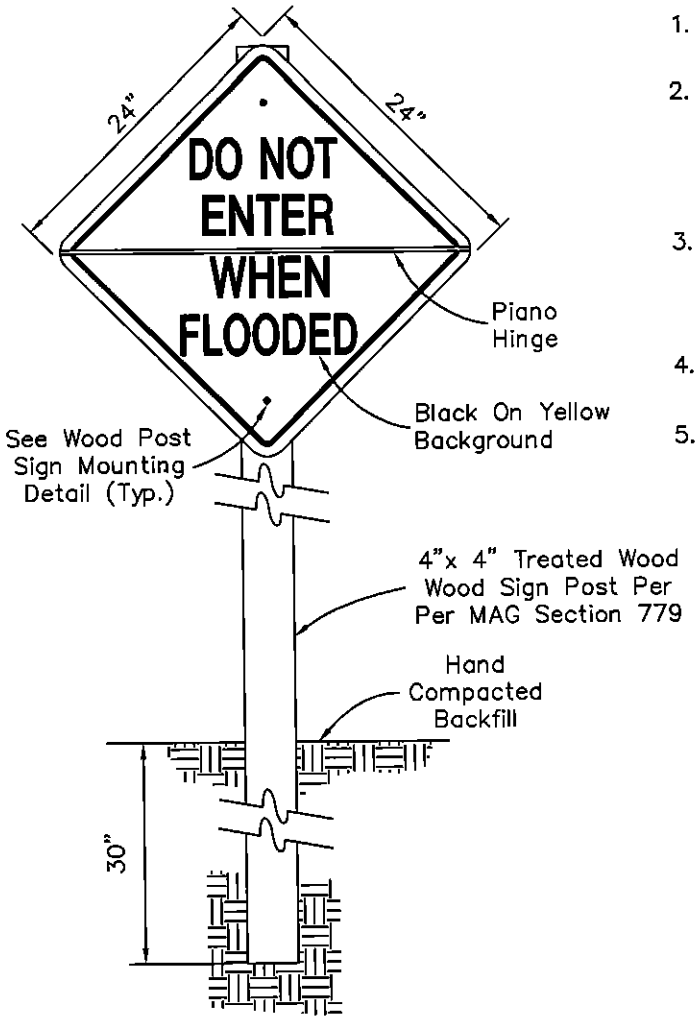
SHOULDER DETAIL

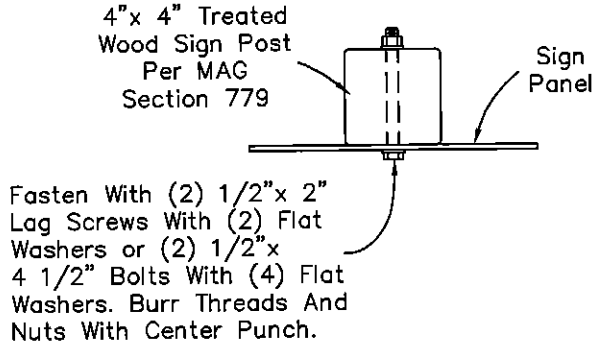
Note: A 3' x 3' Test Panel Shall Be Poured and the finish approved by COS Bicycle Staff At (480)312-7696.

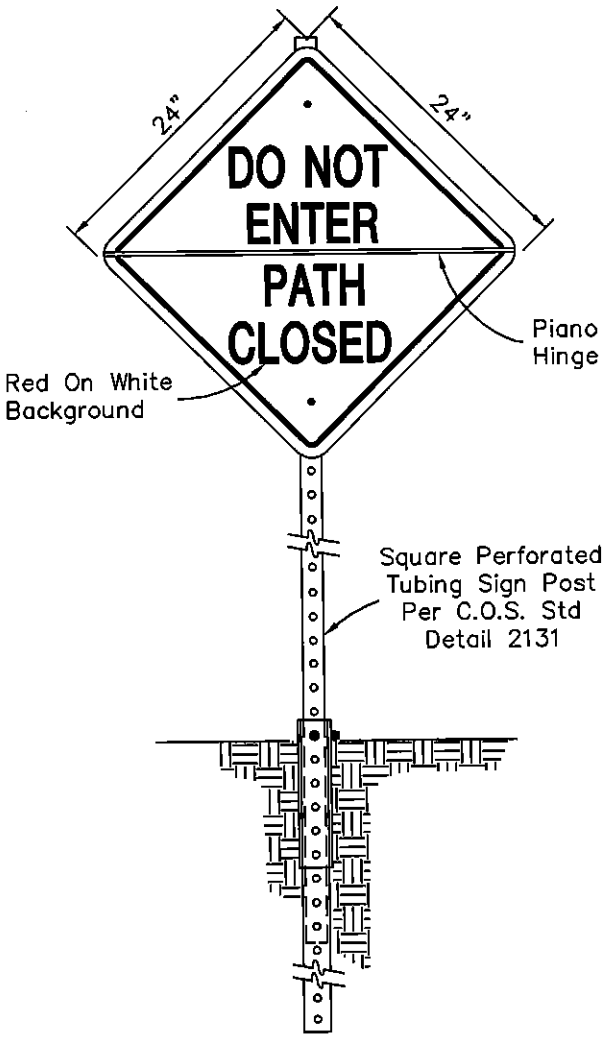
DETAIL NO. 2283	City of Scottsdale Standard Details	MULTI-USE PATH DETAILS	DETAIL NO. 2283

NOTES:

1. Signs shall conform to C.O.S. Supplemental Specifications, Section 402.3.
2. Signs to be mounted on square perforated tubing per C.O.S. Std Det 2131 within C.O.S. Right–of–Way. Treated wood post may be used for trail markers located outside C.O.S. Right–of Way.
3. Legends and borders shall be vinyl sheeting on a reflectorized vinyl background (colors as noted) unless otherwise approved by the City of Scottsdale.
4. Sign height and placement shall conform to C.O.S. Std. Det. 2282.
5. For additional information regarding sign fabrication, contact the City of Scottsdale Sign Shop, 312–5646.

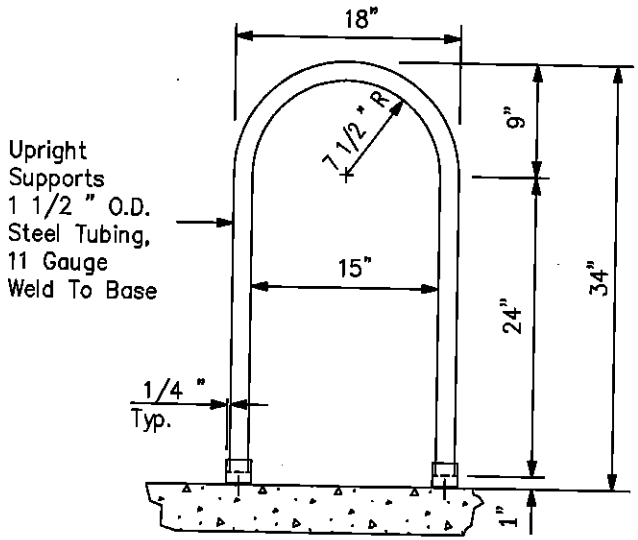


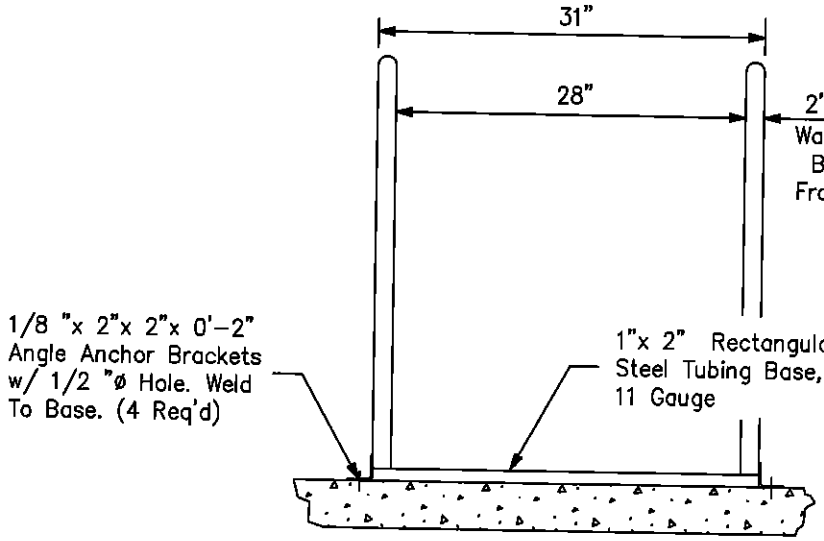


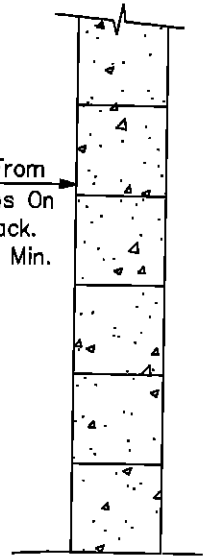


WOOD POST SIGN MOUNTING DETAIL

DETAIL NO. 2284	City of Scottsdale Standard Details	APPROVED BY: _____	MULTI-USE PATH WET CROSSING SIGN	DETAIL NO. 2284



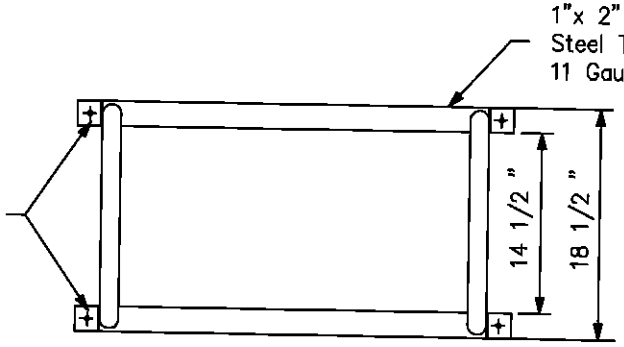




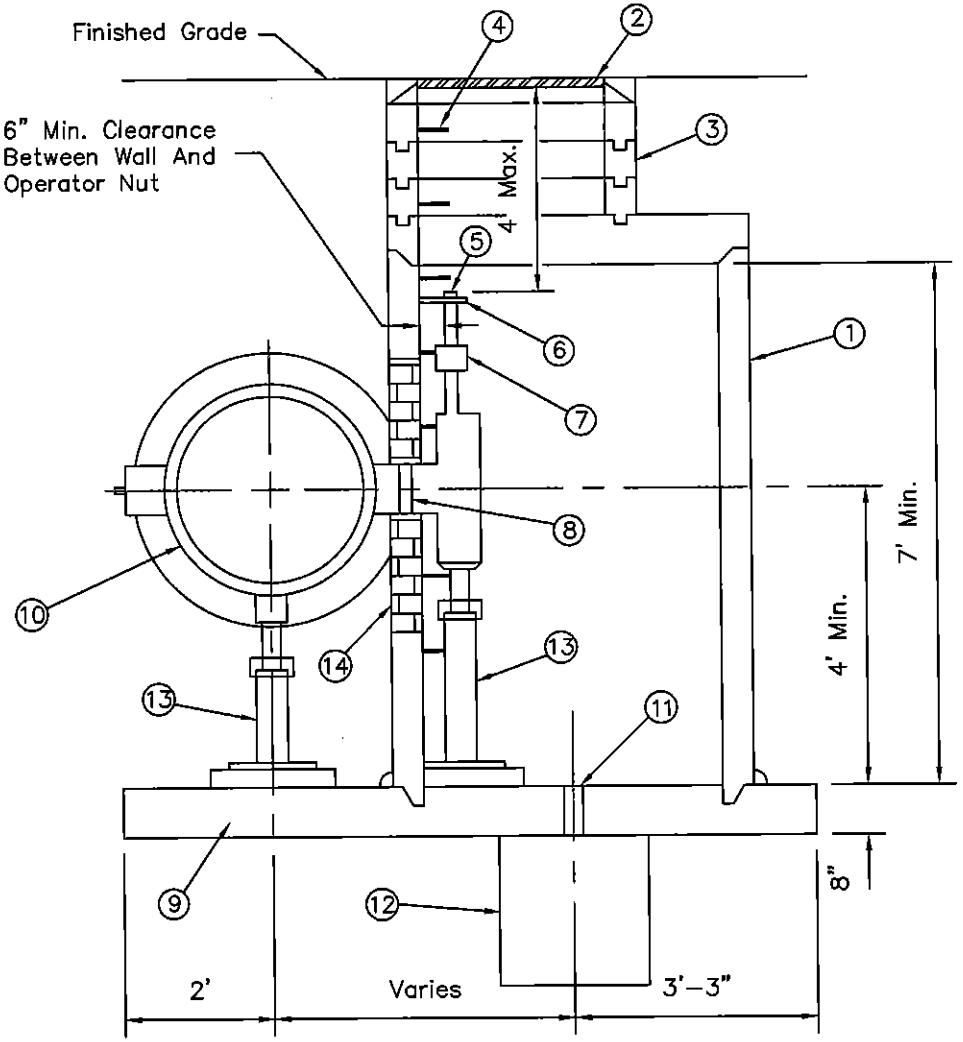
2' Min. Clearance From
Walls Or Obstructions On
Both Sides And Back.
Front To Have A 6' Min.
Clear Area.

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, (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	DETAIL NO. 2285



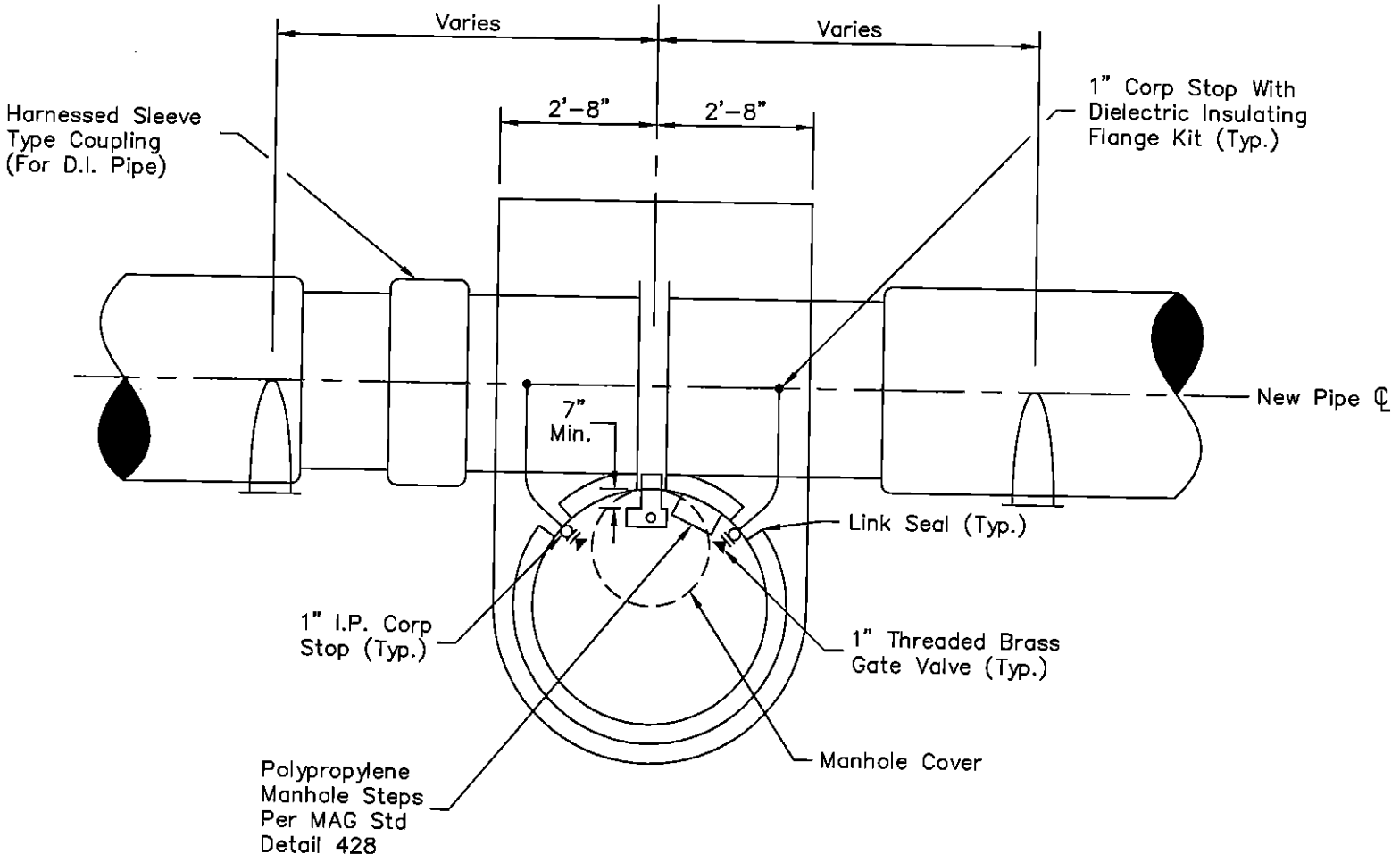
SECTION

LEGEND

1. 48" I.D. Manhole Shaft Per MAG Std. Detail 420, Type "B" Top
2. 30" Manhole Frame & Cover Per MAG Std. Detail 424
3. Grouted Adjusting Rings
4. Polypropylene Manhole Steps Per MAG Std. Detail 428, 12" Spacing Typical
5. Operator Nut
6. Wall Bracket
7. Packing Gland
8. 6" Extension
9. #4 Rebar 12" On Center Each Way 2" Clear Typical
10. Butterfly Valve
11. 3" Diameter Drain
12. 8 Cu. Ft. Gravel Sump
13. Adjustable Pipe Saddle Support
14. Rectangular Cut-Out In Manhole Shaft, Fill Space Between Shaft And Pipe With 1" Sheet Foam, Brick And Mortar

DETAIL NO. 2305-1	City of Scottsdale Standard Details	APPROVED BY: _____	**BUTTERFLY VALVE OPERATOR MANHOLE**	DETAIL NO. 2305-1

REVISED 1/4/95

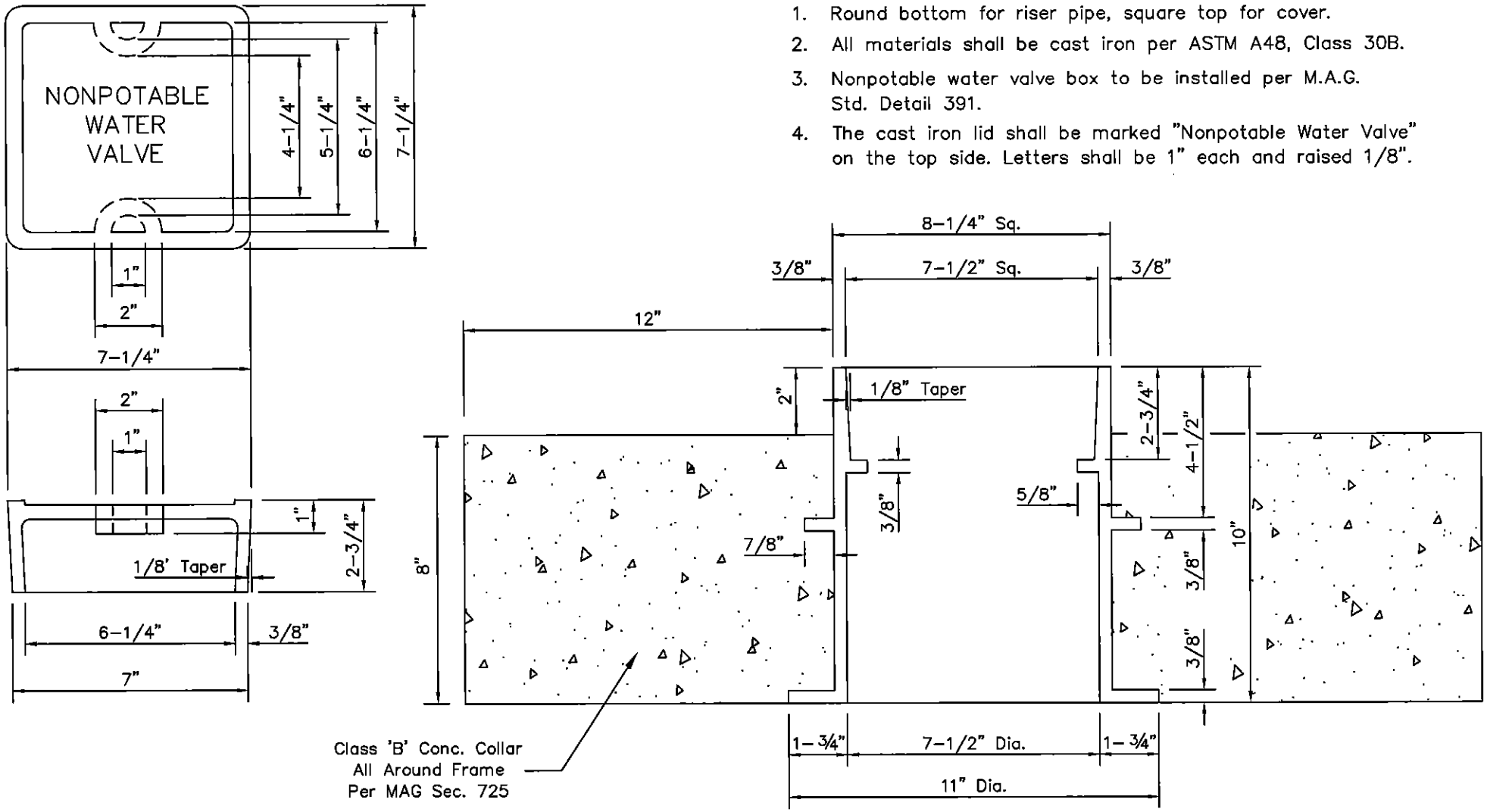


PLAN

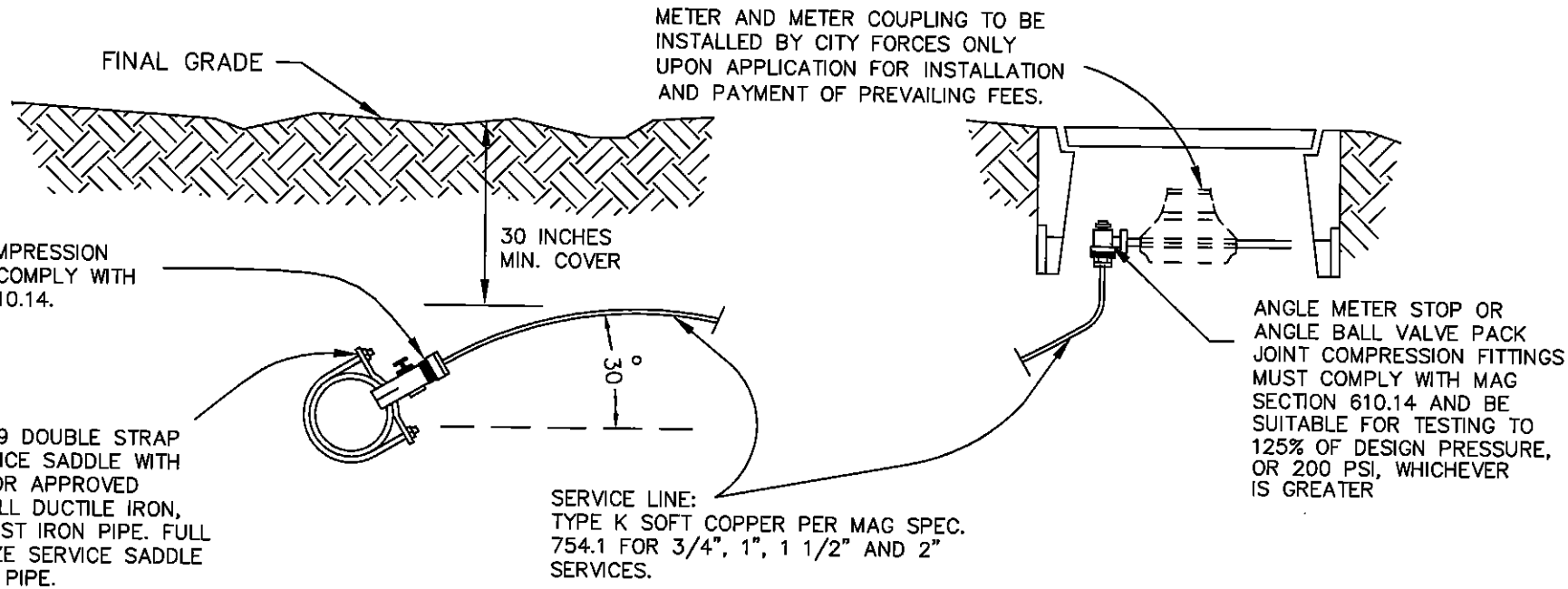
DETAIL NO. 2305-2	City of Scottsdale Standard Details	APPROVED BY:	BUTTERFLY VALVE OPERATOR MANHOLE	DETAIL NO. 2305-2

NOTES

1. Round bottom for riser pipe, square top for cover.
2. All materials shall be cast iron per ASTM A48, Class 30B.
3. Nonpotable water valve box to be installed per M.A.G. Std. Detail 391.
4. The cast iron lid shall be marked "Nonpotable Water Valve" on the top side. Letters shall be 1" each and raised 1/8".



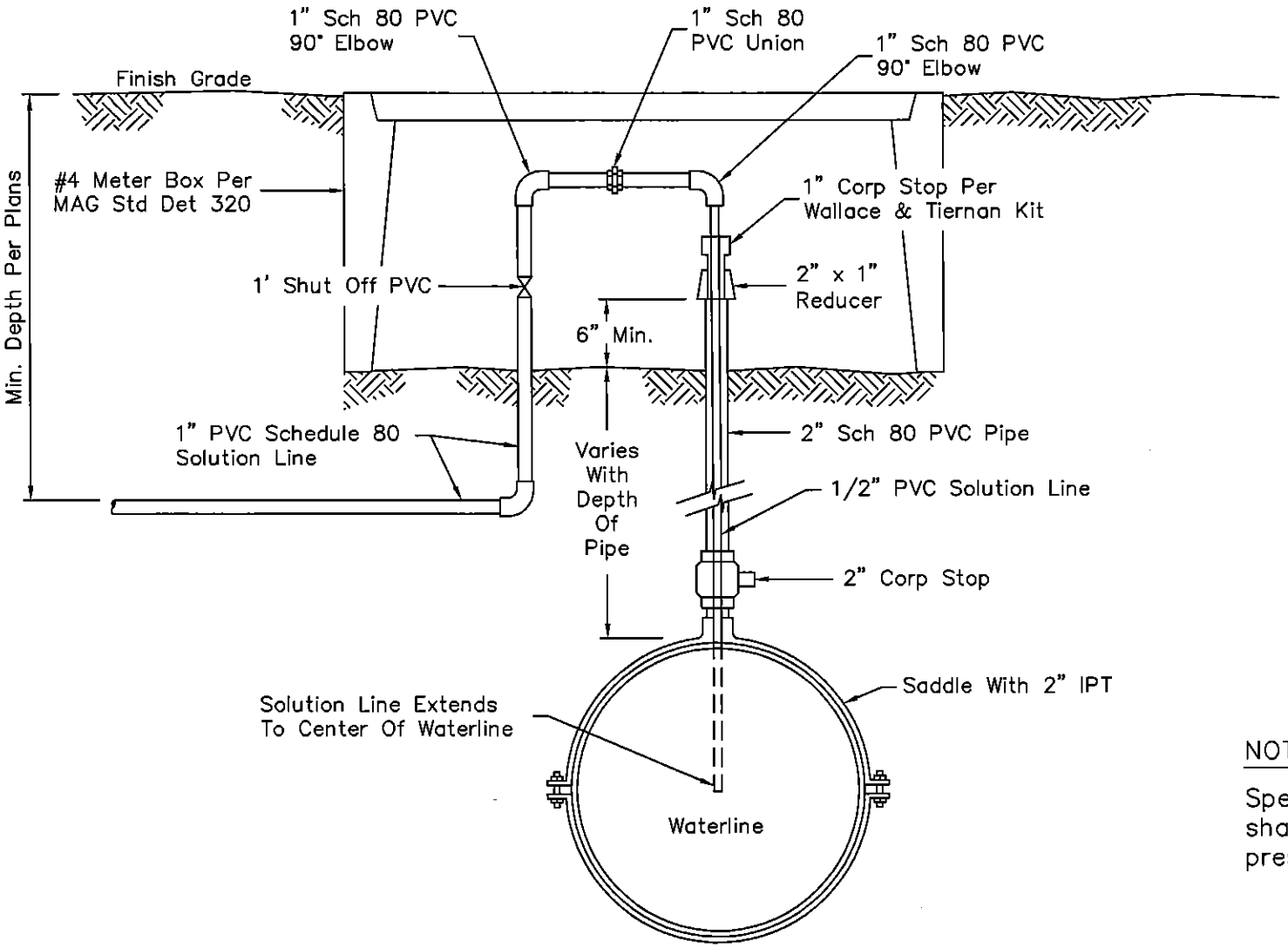
DETAIL NO. 2315	City of Scottsdale Standard Details	APPROVED BY:	NONPOTABLE WATER VALVE BOX & COVER	DETAIL NO. 2315



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

DETAIL NO. 2330	City of Scottsdale Standard Details	WATER SERVICE LINE CONNECTION	DETAIL NO. 2330

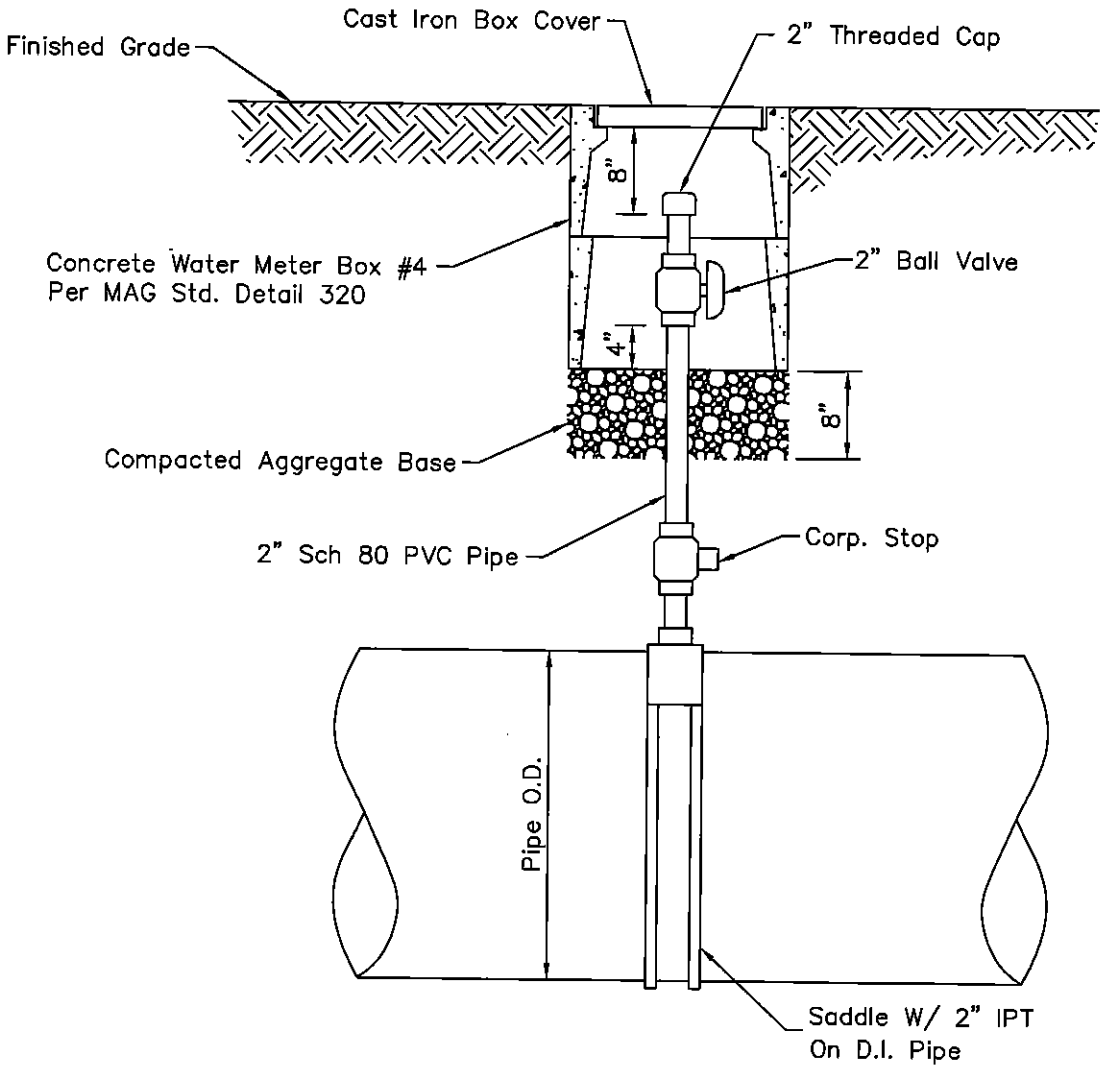
REVISED 5/30/00



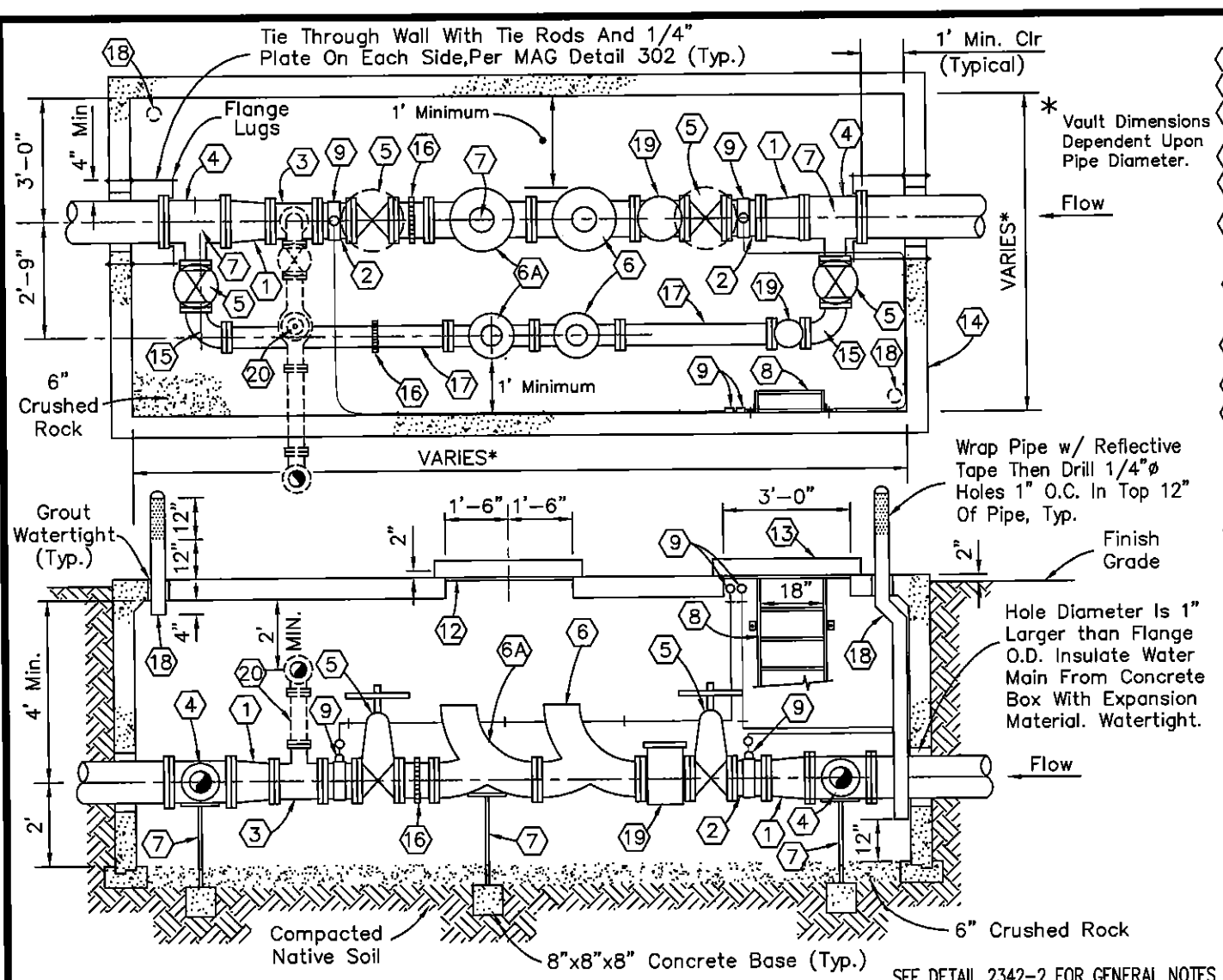
NOTE:

Specifications on all fittings shall exceed the maximum pressures of the system.

DETAIL NO. 2332	City of Scottsdale Standard Details	APPROVED BY:	CHLORINE INJECTION TAP FOR UNDERGROUND WATERLINES	DETAIL NO. 2332



DETAIL NO. 2333	City of Scottsdale Standard Details	APPROVED BY: _____	TAP FOR FUTURE CHLORINE INJECTION	DETAIL NO. 2333



NOTES

1. D.I.P. Flg Concentric Reducer
2. D.I.P. Flg x Flg Spool Piece
3. D.I.P. Flg x Flg Tee. Install Only When Detail 2342-2 Is Used.
4. D.I.P. Flg Reducing Tee
5. Flg NRS Resilient Wedge Gate Valve, Inside Epoxy Coated, Low Zinc Stem w/ Wheel Handle
6. Flg PRV Bermad Model 723-20-V-I-U w/ Valve Position Indicator & Low Flow V-Port Plug And Must Have Stainless Steel Pilot Tubing, Or Approved Equal.
6A. Flg PRV Bermad Model 723-20-V-I-U w/ Valve Or Approved Equal Will Be Installed When Pressure Differential Is 100 psi Or Greater.
7. 4" Dia Galv Adjustable Pipe Supports w/ 1" Adj. Rod And Nut On 8"x 8"x 8" Concrete Base.
8. Galv Access Ladder Bolted To Wall, 6" Stand Off.
9. Saddle With 1" Corp., 3/8" Brass Reducer, 3/8" 3/8" Brass Tee w/ Oil Filled 0-200 Pressure Gauge. Install 3/8" Stainless Tubing Strapped To Wall As Shown w/ Oil Filled Gauges Mounted At Access Door. Gages To Be Readable From Outside Vault.
12. For 8" Valves Or Larger Install Utility Vault Raised/ Adjustable Access Door, Model 3636, Or Approved Equal, Centered Over Main Valves For Removal.
13. Utility Vault Raised/Adjustable Steel Access Door For Inspection, Model 3636 Or Approved Equal. Place In Corner With Ladder.
14. Precast Concrete Water Utility Vault, Per MAG Std Det 321 & 345-1, Inside Dimensions Vary Depending On Pipe Size.
15. D.I.P. Flg 90° Elbow
16. Victaulic Coupling Or Approved Equal w/ All Thread Tie Rods.
17. D.I.P. Flg Pipe Spool
18. 4" Galv. Steel Vent Pipe With Cap. Strap Pipe To Wall. Install Vents In Unpaved Areas Only.
19. Basket Type Strainer
20. 4" Pressure Relief Bermad Model 730-I-U w/ Valve Position Indicator Or Approved Equal Required When Pressure Differential Meets Or Exceeds 100 PSI. See Detail 2342-2.

* Engineer to note direction of flow and pressure setting on the plans.

SEE DETAIL 2342-2 FOR GENERAL NOTES

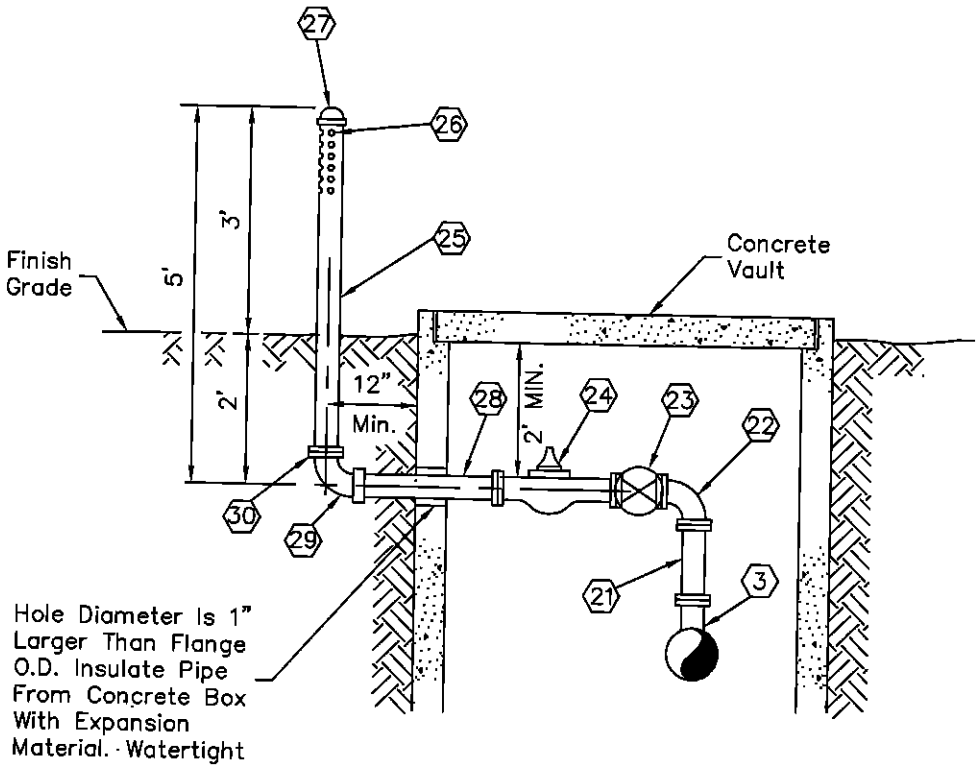
REVISED 2/27/01

DETAIL NO. 2342-1

City of Scottsdale Standard Details

PRESSURE REDUCING VALVE

DETAIL NO. 2342-1



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

(22) 4" DIP Flg x Flg 90° Elbow, w/ Restrained Joints (Meg A Lug Or Approved Equal)

(23) 4" Flg NRS Resilient Wedge Gate Valve, Inside Epoxy Coated, Low Zinc Stem w/ Handwheel

(24) 4" Flg PRV Bermad Model 730-I-U Or Approved Equal, Epoxy Coated w/ Valve Position Indicator

(25) 4" SCH. 40 Steel Pipe (Painted Desert Beige)

(26) 6 Rows 2" O.C. Of 3-1"ø Holes, 180° Spray Pattern

(27) 4" SCH 40 Steel Cap (Threaded)

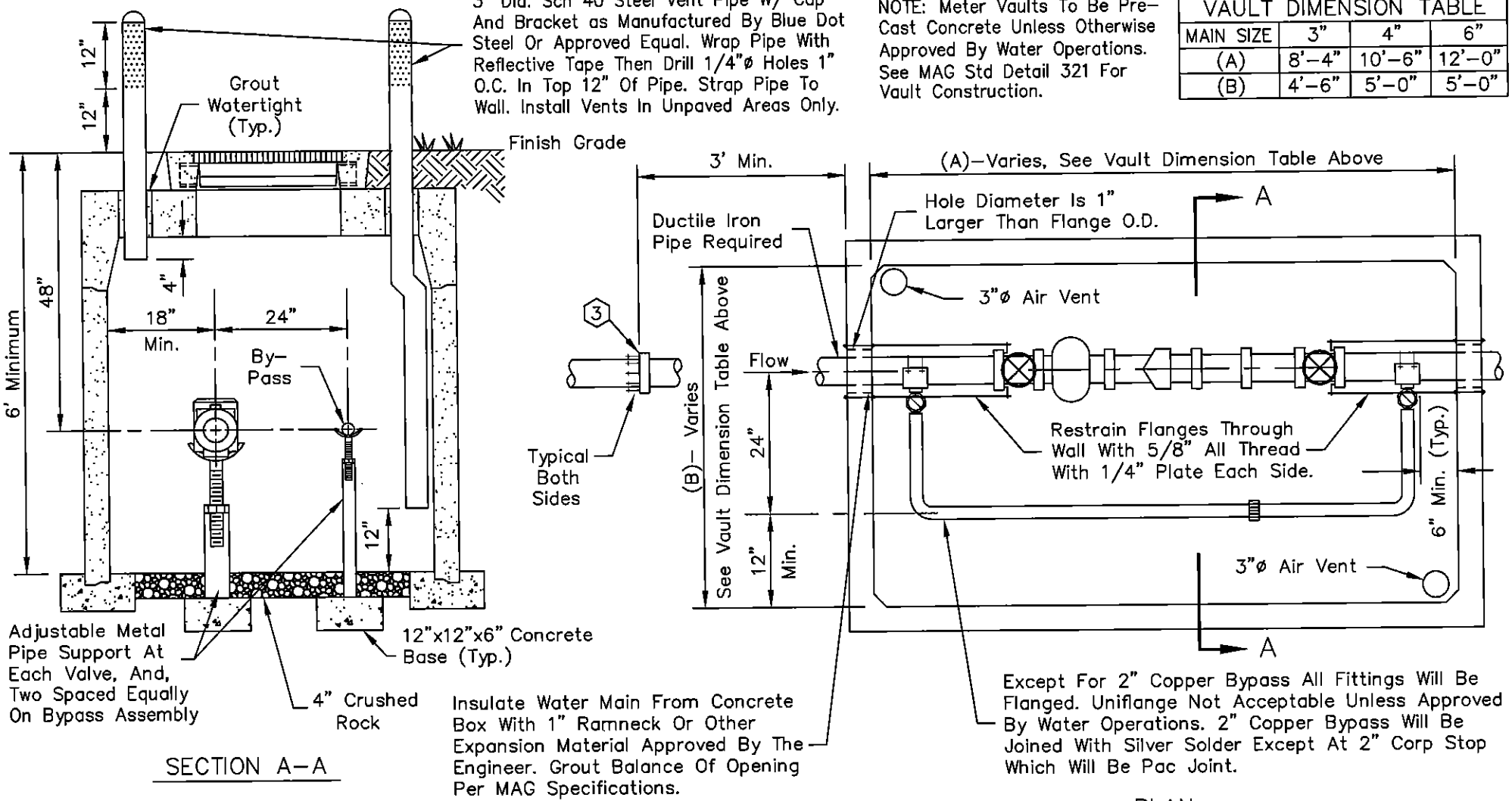
(28) 4" Ductile Pipe Spool

(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.



NOTE: Meter Vaults To Be Pre-Cast Concrete Unless Otherwise Approved By Water Operations. See MAG Std Detail 321 For Vault Construction.

VAULT DIMENSION TABLE			
MAIN SIZE	3"	4"	6"
(A)	8'-4"	10'-6"	12'-0"
(B)	4'-6"	5'-0"	5'-0"

VAULT INSTALLATION

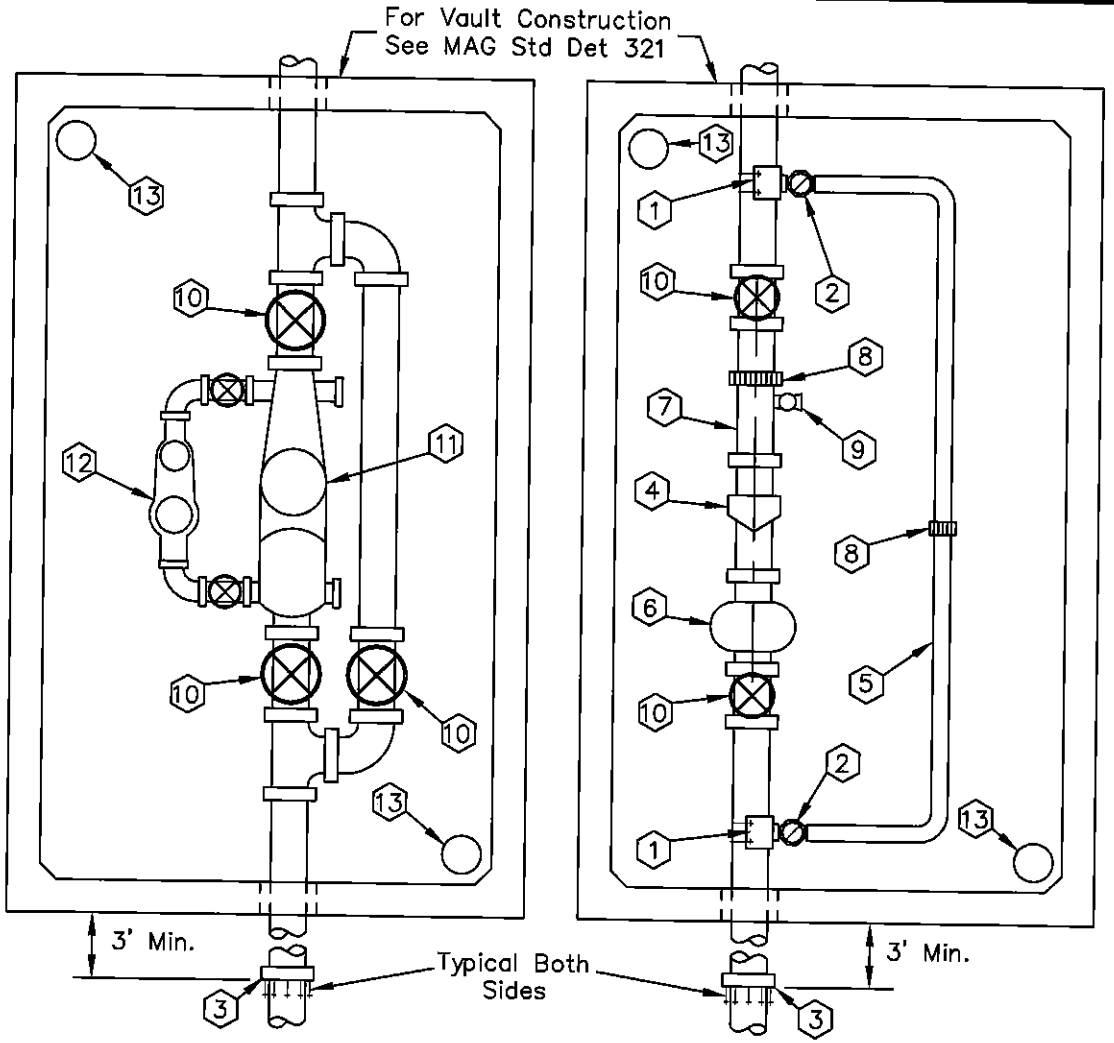
SHEET 1 OF 2

DETAIL NO. 2345-1

City of Scottsdale Standard Details

3", 4", 6" WATER METER

DETAIL NO. 2345-1



COMBINATION DOMESTIC/ FIRE LINE METER

COMPOUND/TURBINE METER

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.).
8. Provide Victaulic Coupling Or Approved Equal For All Lines 3" Or Larger.
9. 2" Threaded Outlet And Ball Valve. Not Needed If Vertical Test Valve Is Provided On Meter.
10. Resilient Wedge Gate Valve, Flanged, With Hand Wheel, Open Left, With Non–Rising Stem.
11. Turbine (High Flow) Or Compound Meter, See Note 4 Below.
12. 2" Turbine Meter: Sensus "W–160" Or Hersey "MHR" Or Neptune Trident Turbine.
13. 3"ø Air Vent, See Sheet 1 Of 2.

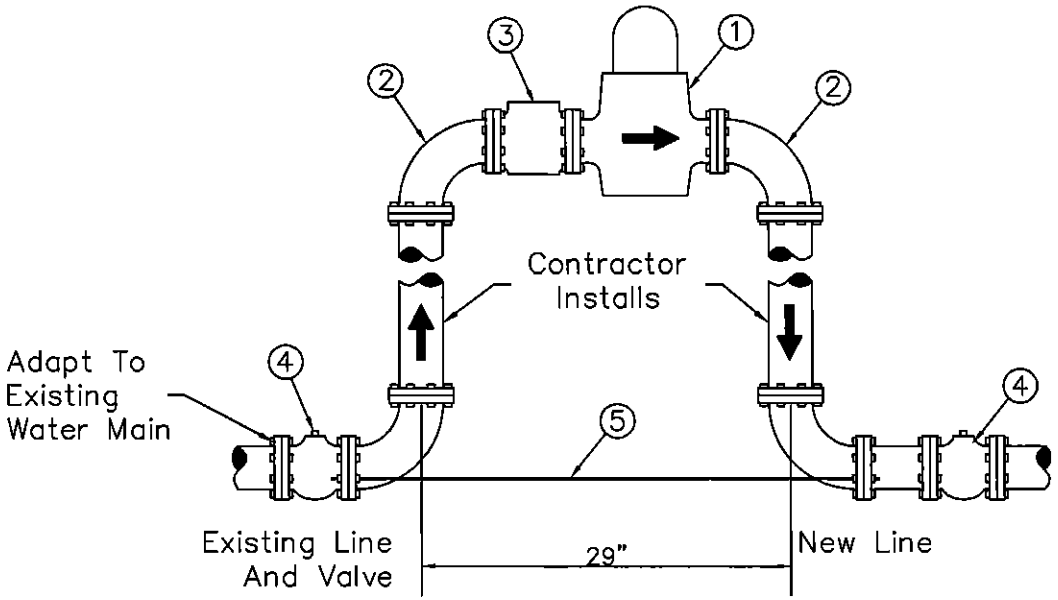
NOTES

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

DETAIL NO. 2345-2 | City of Scottsdale Standard Details

3, 4", 6" WATER METER

DETAIL NO. 2345-2



GENERAL NOTES

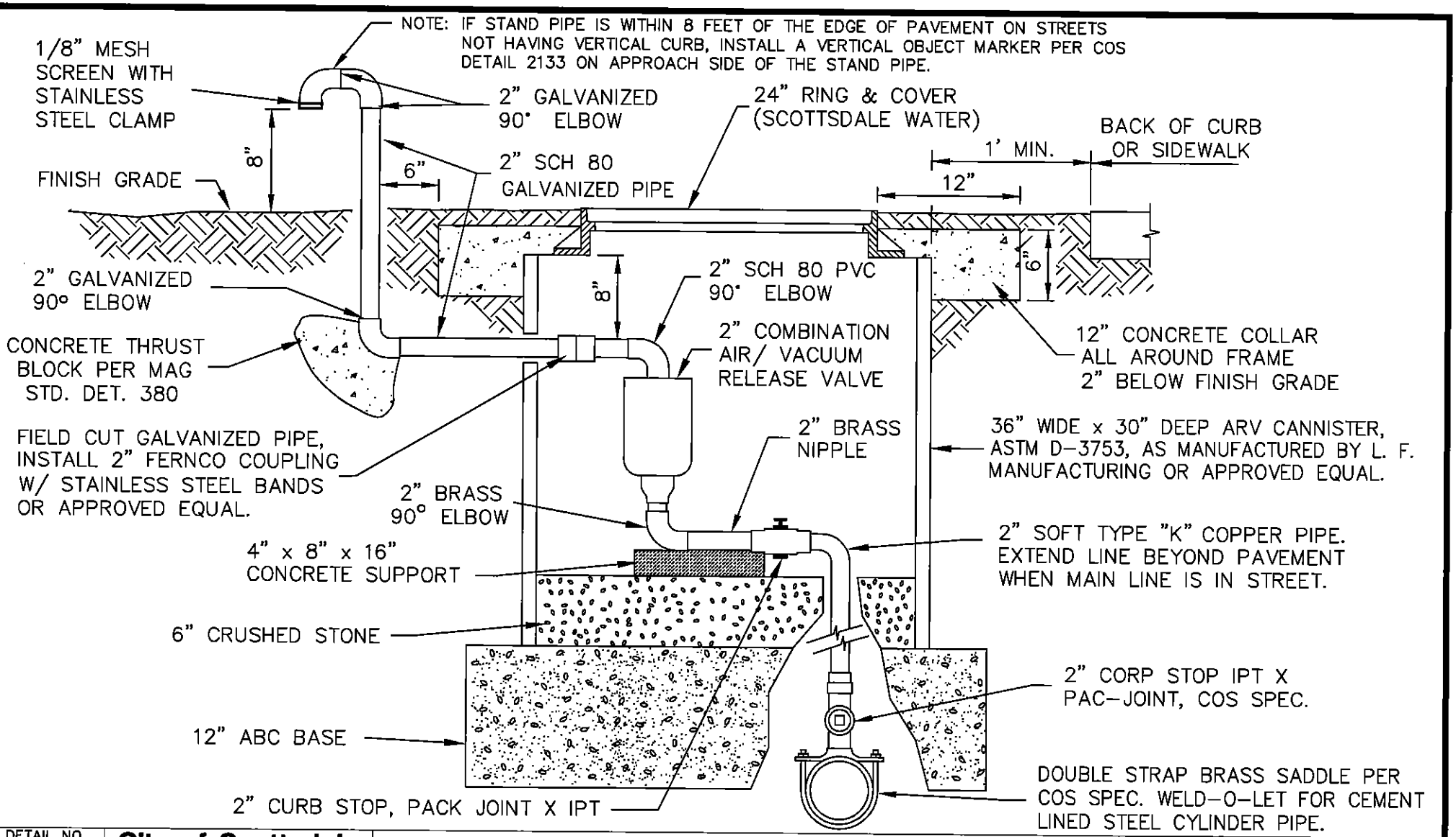
1. Contractor to supply and install above ground piping and fittings to accomodate meter, strainer and 2 – 90° ells.
2. Contractor to remove piping and fittings after acceptance of new water main and complete connection as per MAG Standards.

LIST OF MATERIALS

① 3", 4" & 6" Pressure regulating valve with meter and check feature – supplied by COS.
② 3", 4" & 6" Flanged ductile iron 90° ell – supplied by COS.
③ 3", 4" & 6" Strainer – supplied by COS.
④ 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.
⑤ 3/4"ø zinc coated threaded rod.

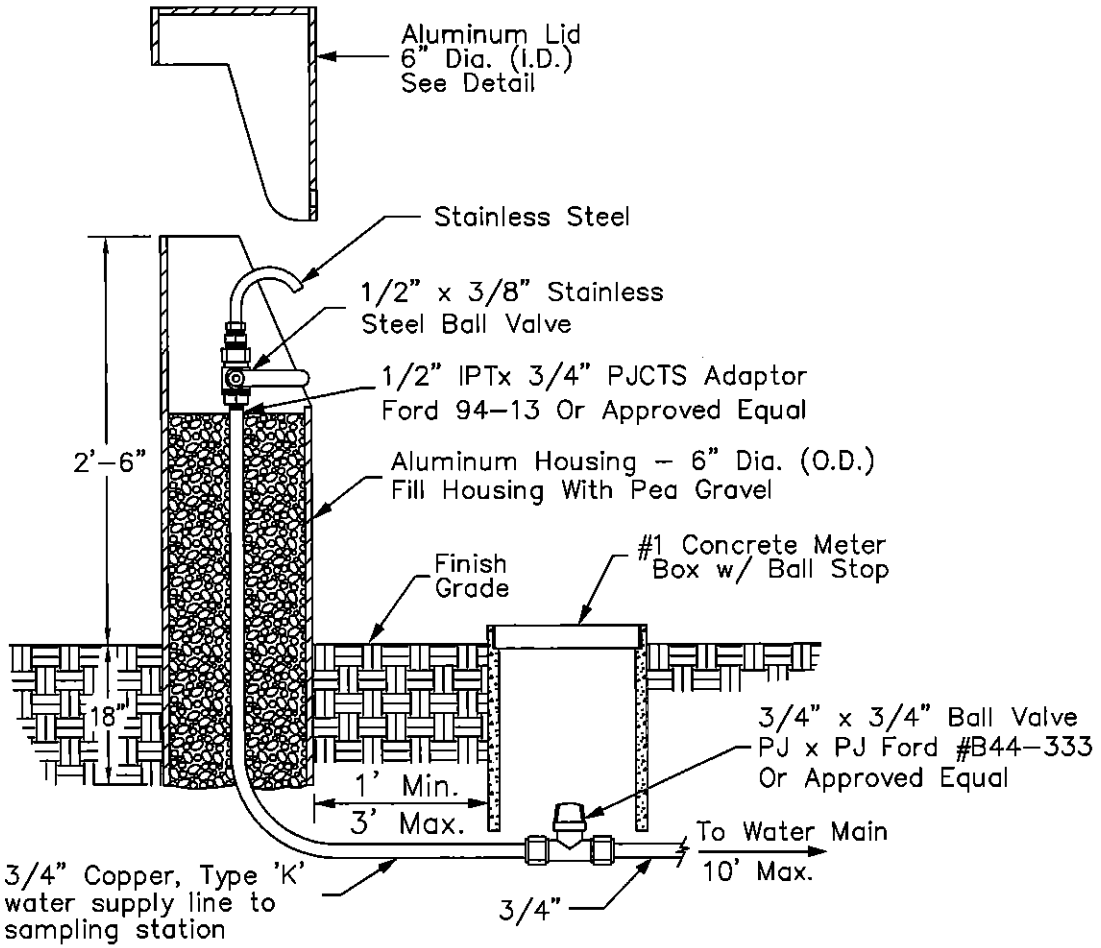
REVISED 2/27/01

DETAIL NO. 2346	City of Scottsdale Standard Details	TEMPORARY CONSTRUCTION METER	DETAIL NO. 2346



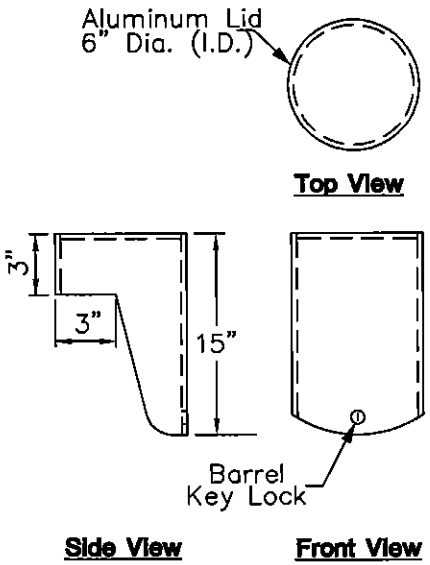
REVISED 2/27/01

DETAIL NO. 2348	City of Scottsdale Standard Details	2" AIR/VACUUM RELEASE VALVE	DETAIL NO. 2348



TYPICAL INSTALLATION

N.T.S.



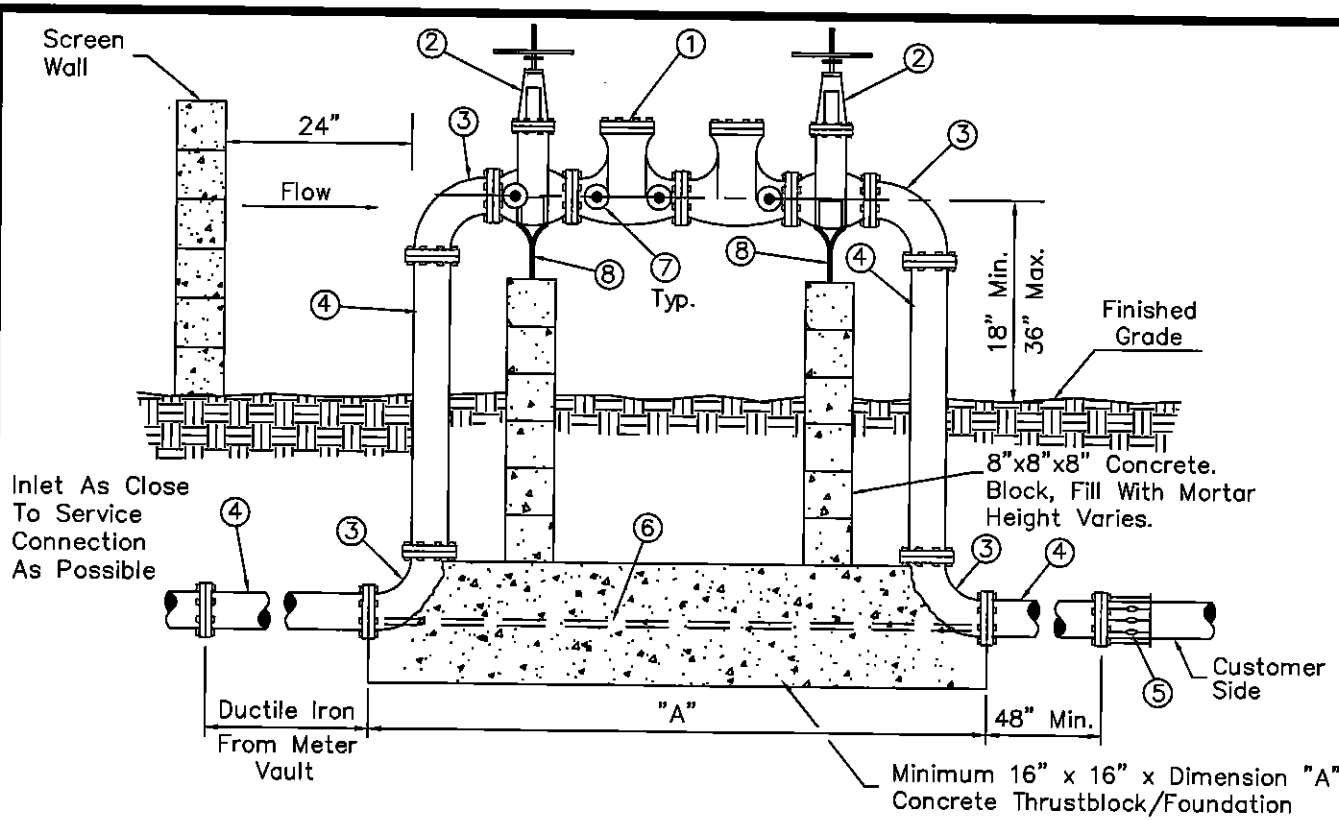
LID DETAILS

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.

DETAIL NO. 2349	City of Scottsdale Standard Details	APPROVED BY: _____	WATER QUALITY SAMPLING STATION	DETAIL NO. 2349



GENERAL NOTES

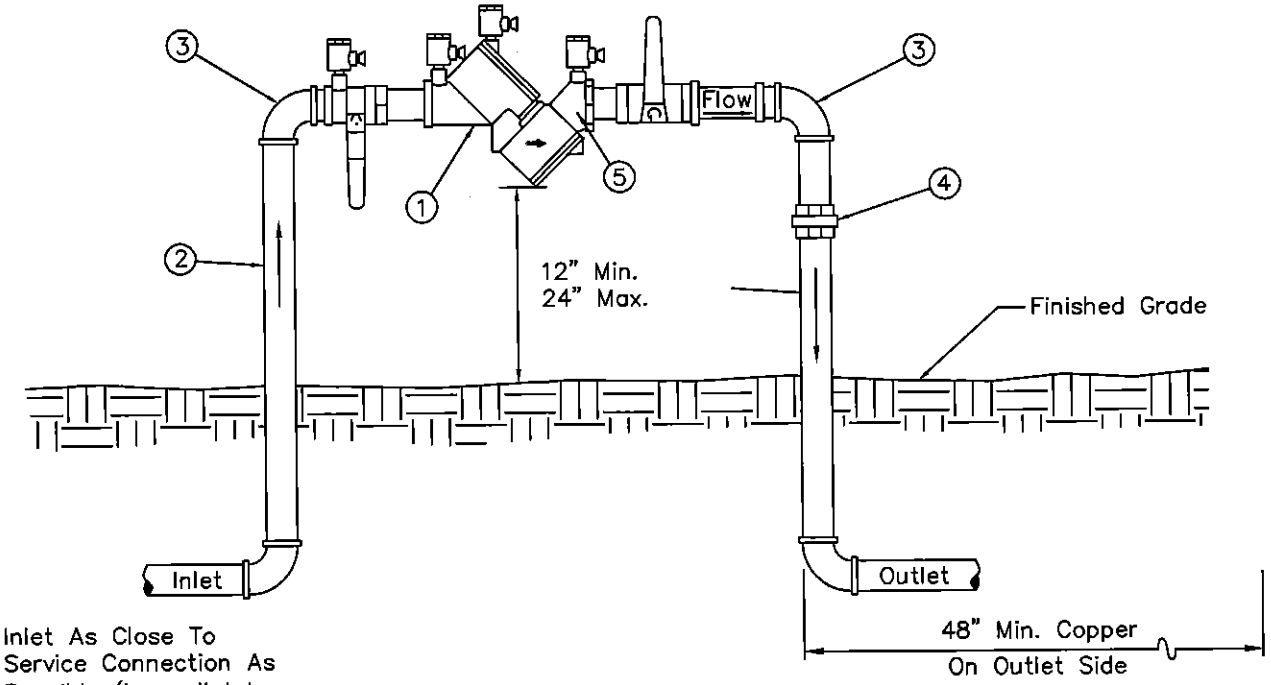
1. Contact the City Of Scottsdale Water And Wastewater Operations, Backflow Prevention, 312–5668, for latest list of approved back–flow prevention assemblies or certified testers.
2. Backflow preventers must be tested by a certified tester before final approval is issued.
3. Backflow preventers shall be painted light tan or a color to match the building. Do not paint the name plate or any brass parts on the assembly.
4. For backflow preventers requiring guard posts see Detail 2356. Backflow preventers enclosed by screening shall maintain a 24 inch clear–ance around the assembly.
5. Finished grade underneath the backflow pre–venter shall be at 95% compaction.
6. Backflow preventers on fire lines may require tamper switches on the shut off valves. Con–tact City Of Scottsdale Plan Review, Fire Dept.
7. Call for underground inspection before backfilling trench.
8. Vertical installations of assemblies on fire sprinkler systems are allowed using assemblies approved for use in the vertical position on fire systems.

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.
④ Pipe spool. Flanged D.I.P. 3" thru 10", Mega Lug or approved equal may be used on underground joints.
⑤ Flanged adapter (when required)
⑥ 3/4" zinc coated threaded rod, (5/8" rod on 3" to 4" sizes), bolt to flanges as shown, typical both sides.
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.

DETAIL NO. 2351	City of Scottsdale Standard Details	APPROVED BY:	DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3 INCHES THRU 10 INCHES	DETAIL NO. 2351

REVISED 3/15/99



Inlet As Close To Service Connection As Possible (Immediately After Water Meter). Copper On Inlet Side.

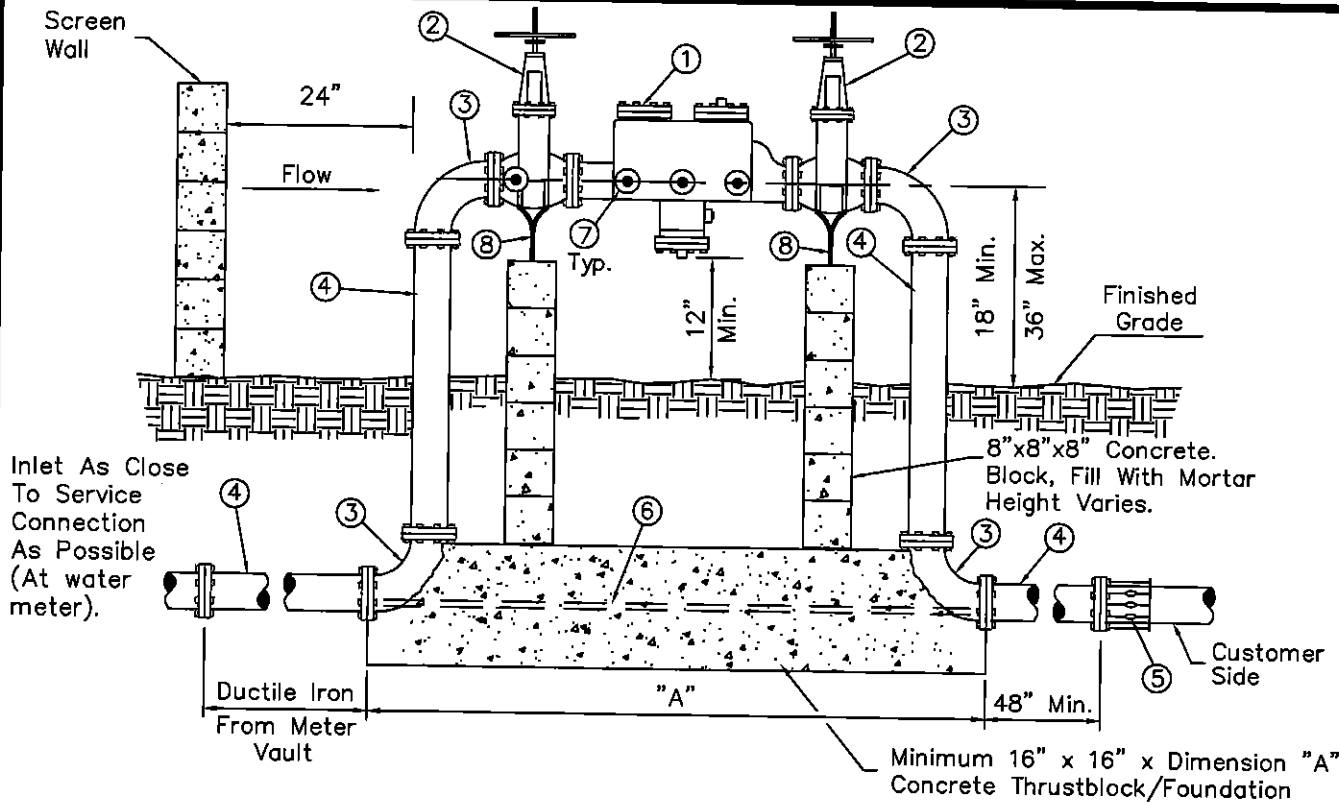
GENERAL NOTES

1. Contact the City Of Scottsdale Water And Wastewater Operations, Backflow Prevention, 312–5668, for latest list of approved back–flow prevention assemblies or certified testers.
2. Backflow preventers must be tested by a certified tester before final approval is issued.
3. Copper fittings shall be connected with lead free solder joints.
4. Finished grade underneath the backflow pre–venter shall be at 95% compaction.
5. All nipples to be copper or brass.
6. Piping under the City right of way must be type "K" copper.
7. Call for underground inspection before backfilling trench.
8. Vertical installations of assemblies on fire sprinkler systems are allowed using assemblies approved for use in the vertical position on fire systems.

LIST OF MATERIALS

① Approved double check valve backflow prevention assembly, ball valves included.
② Pipe spool, type "L" hard copper, 3/4" thru 2 1/2".
③ 90° ell, copper, 3/4" thru 2 1/2".
④ Pipe union, brass or copper.
⑤ Test cocks with brass plugs or adaptors with caps installed. (4 required)

DETAIL NO. 2352	City of Scottsdale Standard Details	APPROVED BY: _____	DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3/4 INCH THRU 2 1/2 INCHES	DETAIL NO. 2352



GENERAL NOTES

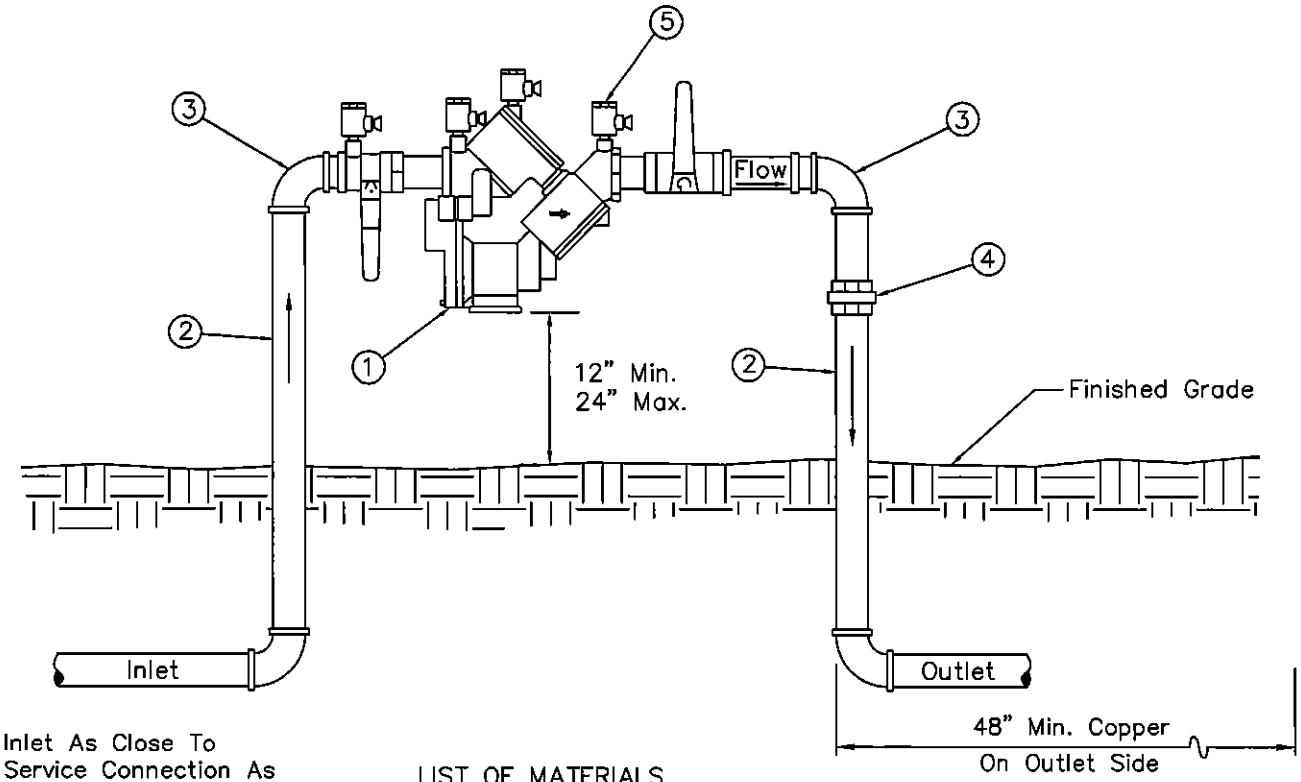
1. Contact the City Of Scottsdale Water And Wastewater Operations, Backflow Prevention, 312–5668, for latest list of approved backflow prevention assemblies or certified testers.
2. Backflow preventers must be tested by a certified tester before final approval is issued.
3. Backflow preventers shall be painted light tan or a color to match the building. Do not paint the name plate or any brass parts on the assembly.
4. For backflow preventers requiring guard posts see Detail 2356. Backflow preventers enclosed by screening shall maintain a 24 inch clearance around the assembly.
5. Finished grade underneath the backflow preventer shall be at 95% compaction.
6. Backflow preventers on fire lines may require tamper switches on the shut off valves. Contact City Of Scottsdale Plan Review, Fire Dept.
7. Call for underground inspection before backfilling trench.

LIST OF MATERIALS

① Approved reduced pressure principle backflow prevention assembly.
② Resilient seated gate valve. O.S. & Y. (fire line connection). N.R.S. (non fire line)
③ 90° ell. Flanged D.I.P. 3" thru 10", Mega Lug or approved equal may be used on underground joints.
④ Pipe spool. Flanged D.I.P. 3" thru 10", Mega Lug or approved equal may be used on underground joints.
⑤ Flanged adapter (when required)
⑥ 3/4" zinc coated threaded rod, (5/8" rod on 3" to 4" sizes), bolt to flanges as shown, typical both sides.
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.

DETAIL NO. 2353	City of Scottsdale Standard Details	APPROVED BY: _____	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3 INCHES THRU 10 INCHES	DETAIL NO. 2353

REVISED 3/15/99



Inlet As Close To Service Connection As Possible (Immediately After Water Meter). Copper On Inlet Side.

LIST OF MATERIALS

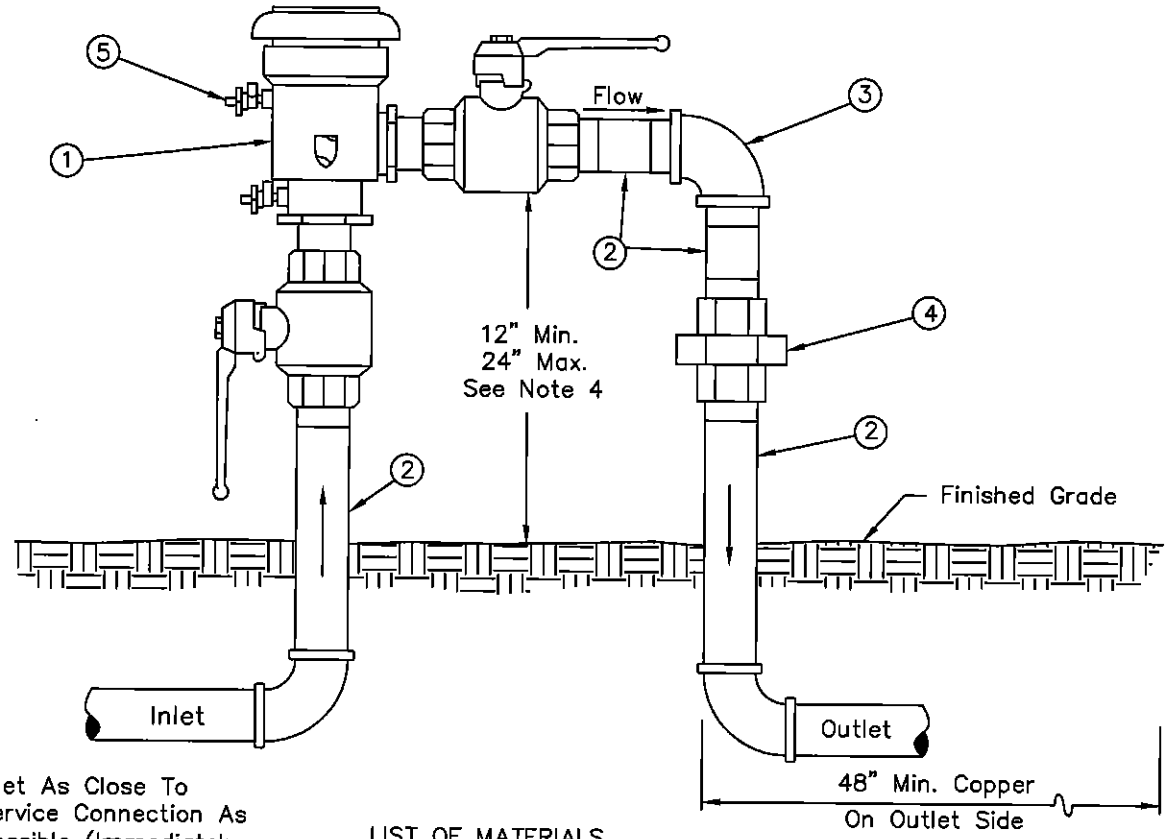
① Approved reduced pressure principle backflow prevention assembly, ball valves included.
② Pipe spool, type "L" hard copper, 3/4" thru 2 1/2".
③ 90° ell, copper, 3/4" thru 2 1/2".
④ Pipe union, brass or copper.
⑤ Test cocks with brass plugs or adaptors with caps installed. (4 Required)

GENERAL NOTES

1. Contact the City Of Scottsdale Water And Wastewater Operations, Backflow Prevention 312-5668, for latest list of approved back-flow prevention assemblies or certified testers.
2. Backflow preventers must be tested by a certified tester before final approval is issued.
3. Copper fittings shall be connected with lead free solder joints.
4. Finished grade underneath the backflow pre-venter shall be at 95% compaction.
5. All nipples to be copper or brass.
6. Piping under the City right of way must be type "K" copper.
7. Call for underground inspection before backfilling trench.

REVISED 3/15/99

DETAIL NO. 2354	City of Scottsdale Standard Details	APPROVED BY: _____	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3/4 INCH THRU 2 1/2 INCHES	DETAIL NO. 2354



Inlet As Close To Service Connection As Possible (Immediately After Water Meter). Copper On Inlet Side.

LIST OF MATERIALS

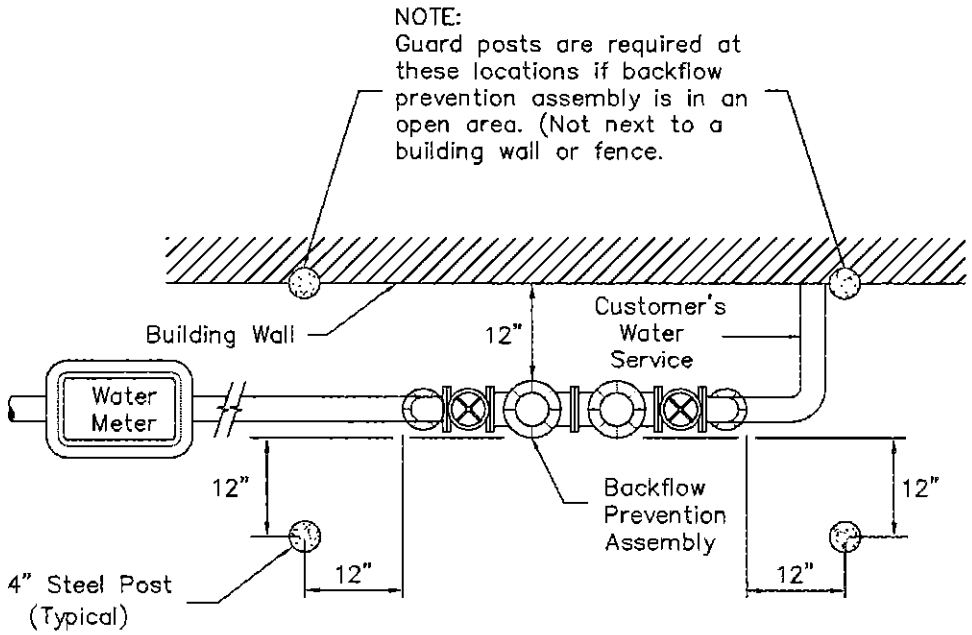
① Approved pressure vacuum breaker assembly, ball valves included.
② Pipe spool, type "L" hard copper, 1/2" thru 2".
③ 90° ell, copper, 1/2" thru 2".
④ Pipe union, brass or copper.
⑤ Test cocks with brass plugs or adaptors with caps installed. (2 required)

GENERAL NOTES

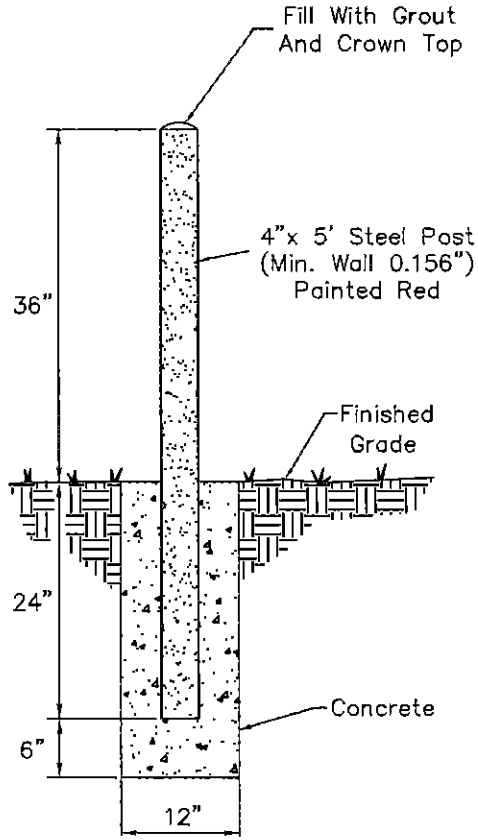
1. Contact the City Of Scottsdale Water And Wastewater Operations, Backflow Prevention, 312-5668, for latest list of approved back-flow prevention assemblies or certified testers.
2. Backflow preventers must be tested by a certified tester before final approval is issued.
3. Pressure vacuum breakers must be installed at least 12" above all downstream piping.
4. If this distance exceeds 24 inches, a reduced pressure principle backflow prevention assembly must be utilized. See Detail 2354.
5. Copper fittings shall be connected with lead free solder joints.
6. Finished grade underneath the backflow pre-venter shall be at 95% compaction.
7. All nipples to be copper or brass.
8. Piping under the City right of way must be type "K" copper.
9. Call for underground inspection before backfilling trench.

REVISED 3/15/99

DETAIL NO. 2355	City of Scottsdale Standard Details	APPROVED BY:	PRESSURE VACUUM BREAKER ASSEMBLY FOR ASSEMBLIES 1/2 INCH THRU 2 INCHES	DETAIL NO. 2355



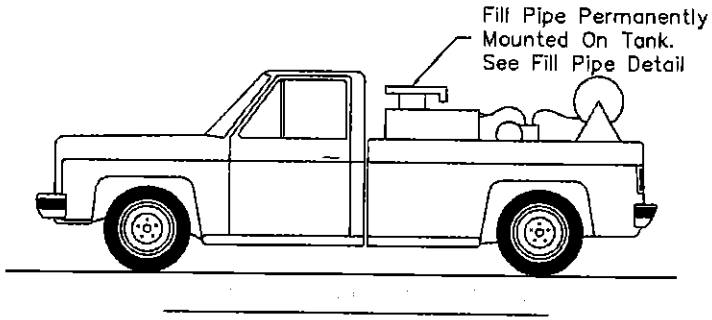
PLAN VIEW

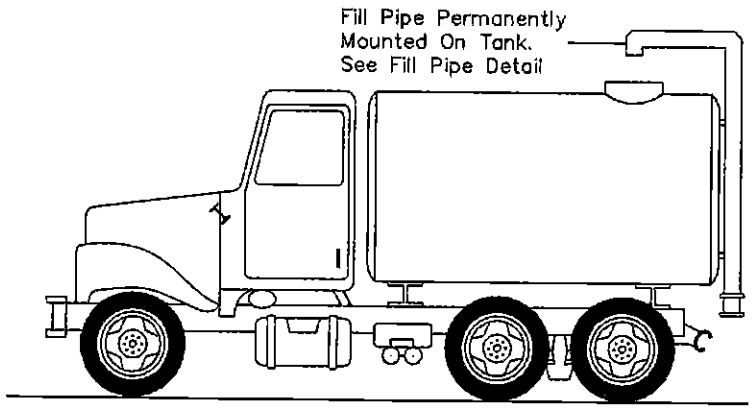


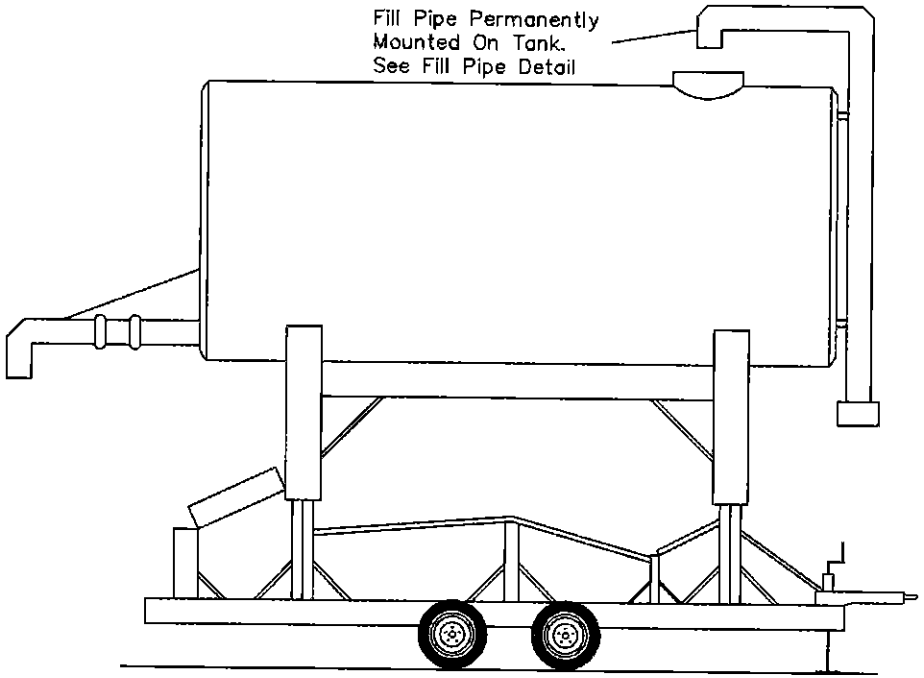
GUARD POST SECTION

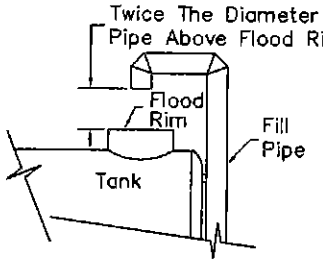
DETAIL NO. 2356	City of Scottsdale Standard Details	APPROVED BY:	GUARD POSTS FOR BACKFLOW PREVENTION ASSEMBLIES	DETAIL NO. 2356

REVISED 2/09/99

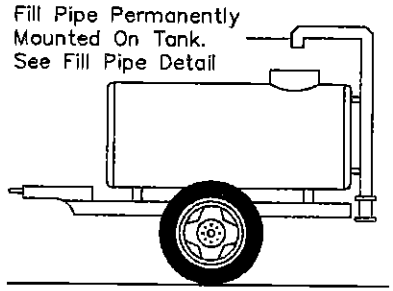




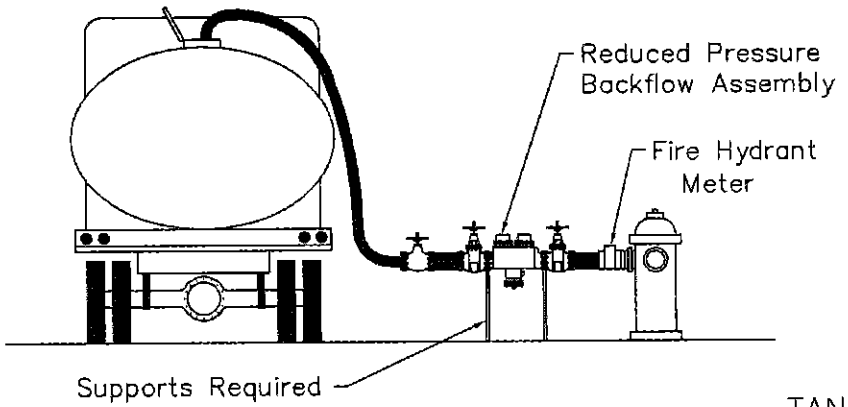


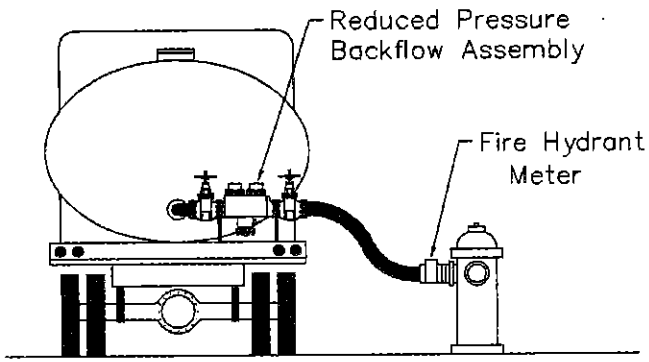


FILL PIPE DETAIL

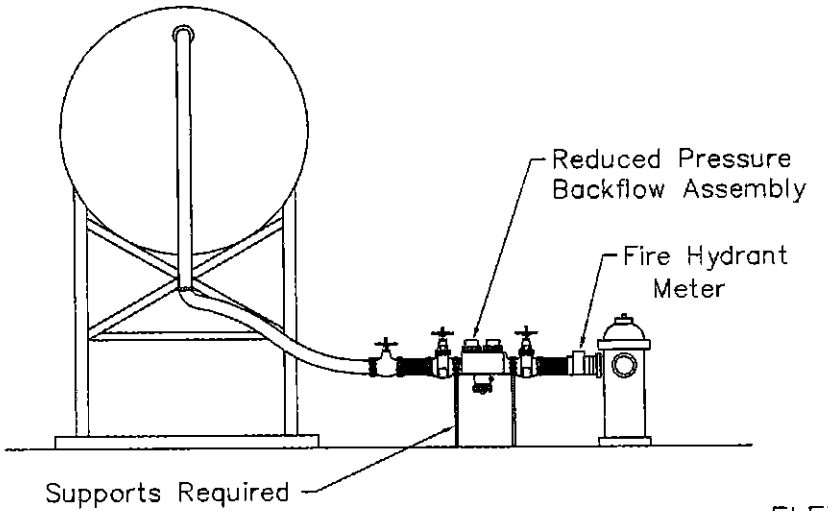


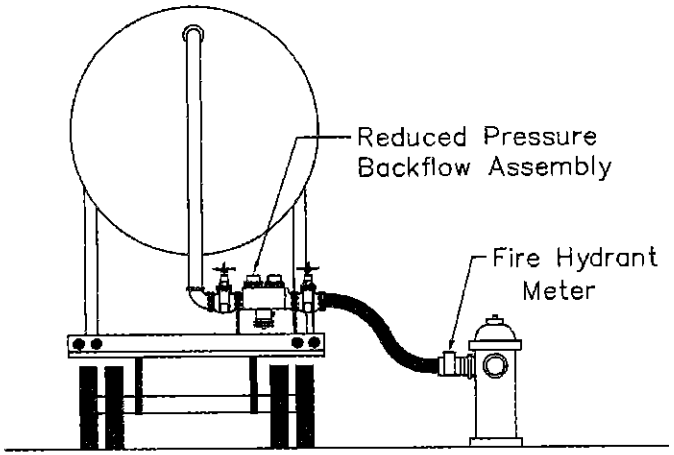
DETAIL NO. 2357	City of Scottsdale Standard Details	APPROVED BY:	FILL PIPE DETAILS FOR PORTABLE TANKS WITH AIR GAP SEPARATION	DETAIL NO. 2357





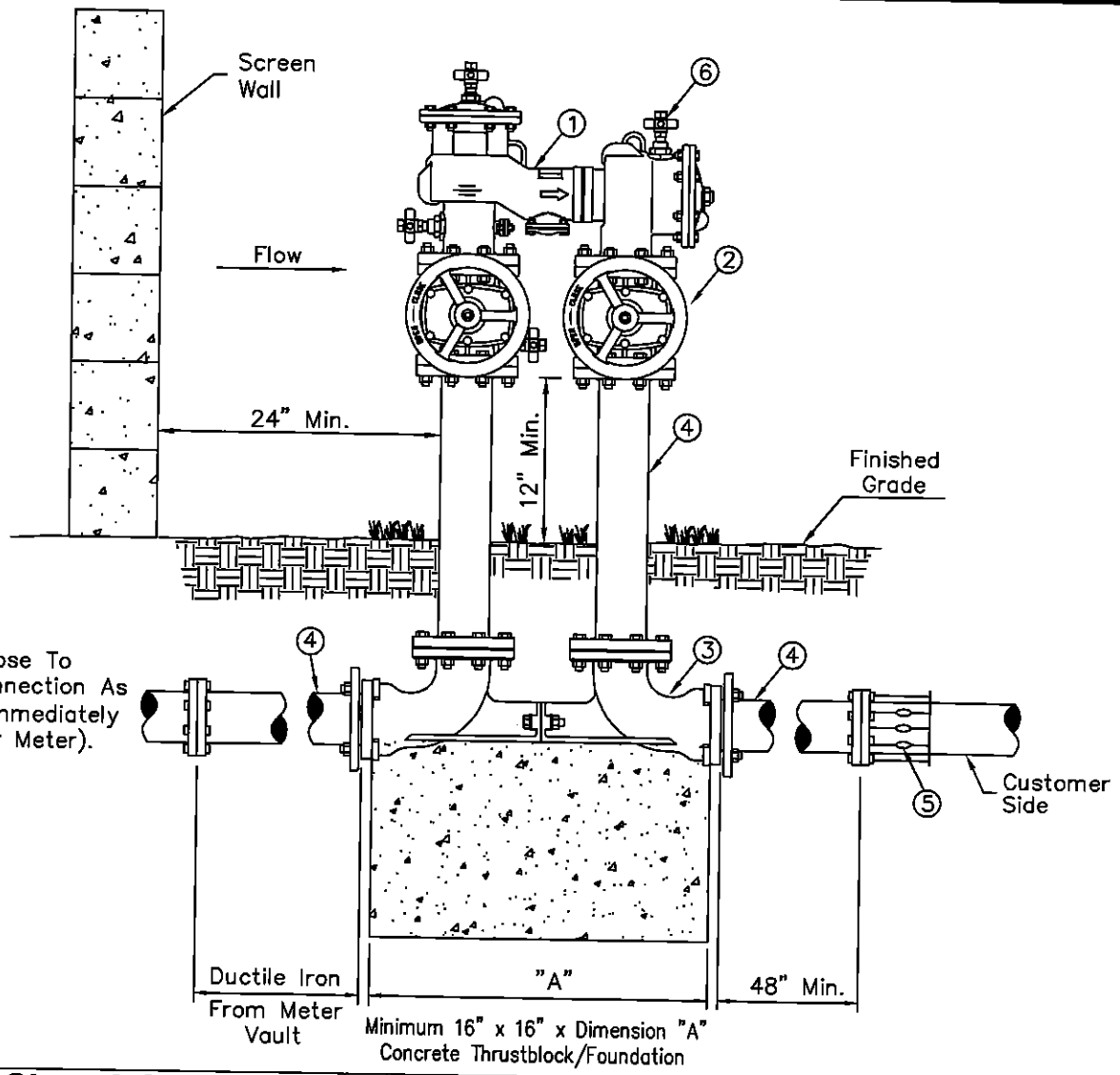
TANK TRUCKS





ELEVATED TANKS

DETAIL NO. 2358	City of Scottsdale Standard Details	APPROVED BY:	BACKFLOW PREVENTION METHOD FOR PORTABLE TANKS WITH NO AIR GAP SEPARATION	DETAIL NO. 2358



GENERAL NOTES

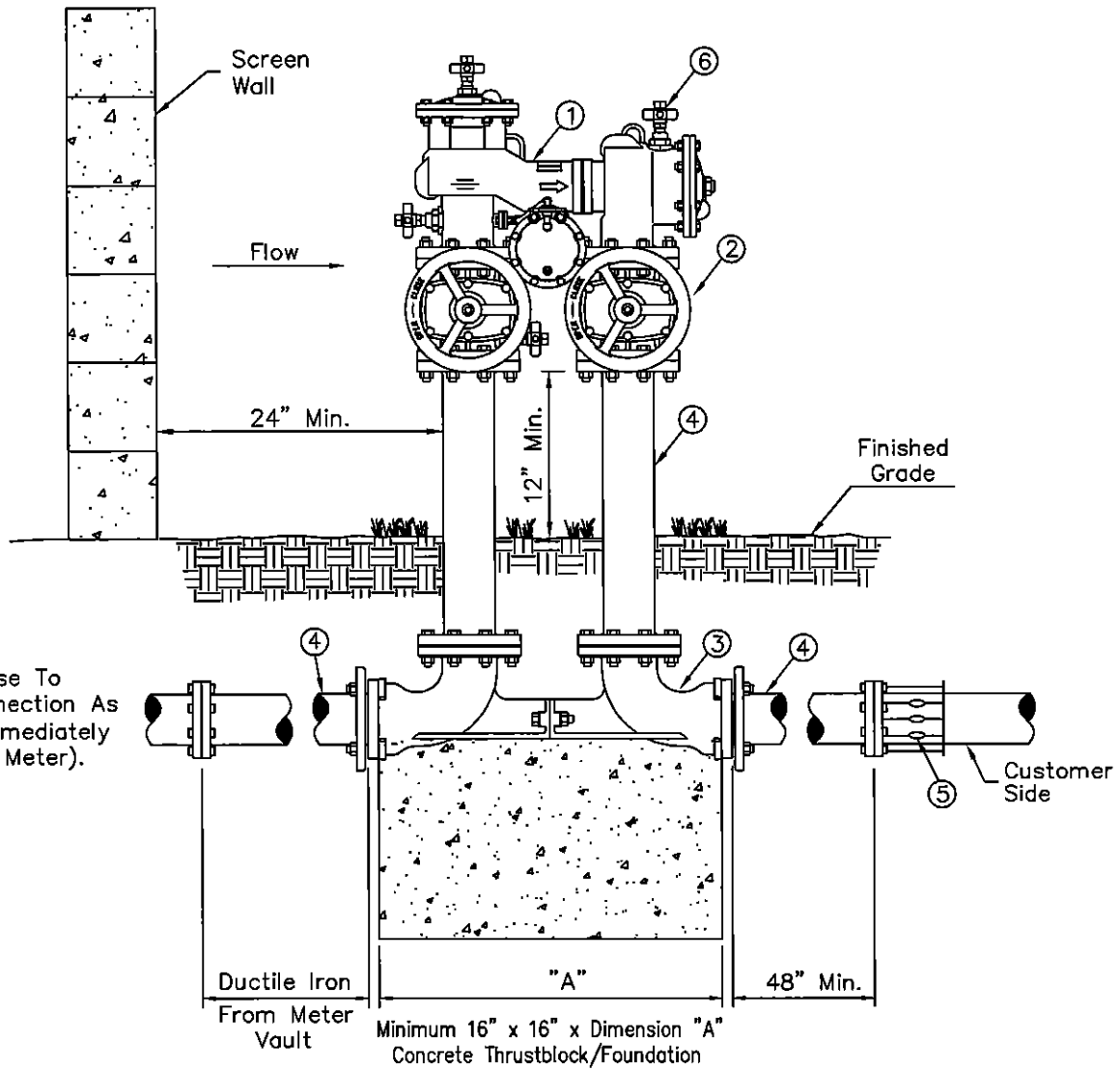
1. Contact the City Of Scottsdale Water And Wastewater Operations, Backflow Prevention, 312–5668, for latest list of approved back–flow prevention assemblies or certified testers.
2. Backflow preventers must be tested by a certified tester before final approval is issued.
3. Backflow preventers shall be painted light tan or a color to match the building. Do not paint the name plate or any brass parts on the assembly.
4. For backflow preventers requiring guard posts see Detail 2356. Backflow preventers enclosed by screening shall maintain a 24 inch clear–ance around the assembly.
5. Finished grade underneath the backflow pre–venter shall be at 95% compaction.
6. Backflow preventers on fire lines may require tamper switches on the shut off valves. Con–tact City Of Scottsdale Plan Review, Fire Dept.
7. Call for underground inspection before backfilling trench.

LIST OF MATERIALS

① Approved "N" shape double check valve backflow prevention assembly.
② Resilient seated gate valve.
O.S. & Y. (fire line connection)
N.R.S. (non fire line)
③ Valve setters, fusion epoxy coated ductile iron, plated nuts and bolts. (2 required)
④ Pipe spool. Flanged D.I.P. 3" thru 10", Mega Lug or approved equal may be used on underground joints.
⑤ Flanged adapter (when required)
⑥ Test cocks with brass plugs or adaptors with caps installed. (4 required)

DETAIL NO. 2359	City of Scottsdale Standard Details	APPROVED BY:	"N" SHAPED DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3 INCHES THRU 10 INCHES	DETAIL NO. 2359

REVISED 5/15/99



GENERAL NOTES

1. Contact the City Of Scottsdale Water And Wastewater Operations, Backflow Prevention, 312–5668, for latest list of approved back–flow prevention assemblies or certified testers.
2. Backflow preventers must be tested by a certified tester before final approval is issued.
3. 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.
4. For backflow preventers requiring guard posts see Detail 2356. Backflow preventers enclosed by screening shall maintain a 24 inch clear–ance around the assembly.
5. Finished grade underneath the backflow pre–venter shall be at 95% compaction.
6. Backflow preventers on fire lines may require tamper switches on the shut off valves. Con–tact City Of Scottsdale Plan Review, Fire Dept.
7. Call for underground inspection before backfilling trench.

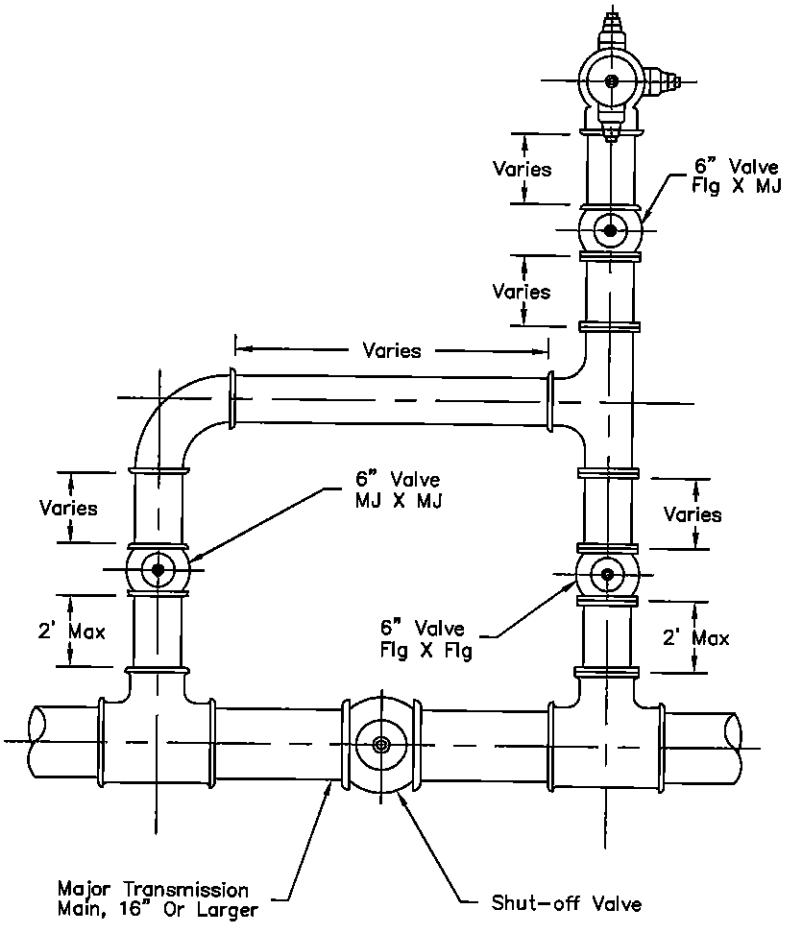
LIST OF MATERIALS

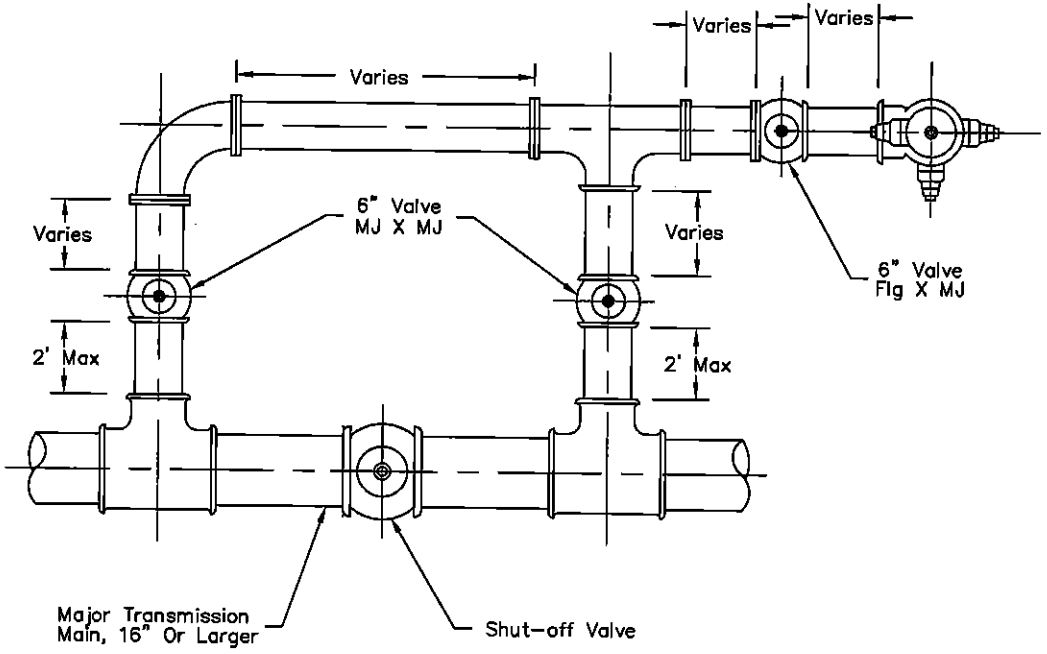
① Approved "N" shape reduced pressure principle backflow prevention assembly.
② Resilient seated gate valve.
O.S. & Y. (fire line connection)
N.R.S. (non fire line)
③ Valve setters, fusion epoxy coated ductile iron, plated nuts and bolts. (2 required)
④ Pipe spool. Flanged D.I.P. 3" thru 10", Mega Lug or approved equal may be used on underground joints.
⑤ Flanged adapter (when required)
⑥ Test cocks with brass plugs or adaptors with caps installed. (4 required)

DETAIL NO.		APPROVED BY:		DETAIL NO.
2360	City of Scottsdale Standard Details		"N" SHAPED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3 INCHES THRU 10 INCHES	2360

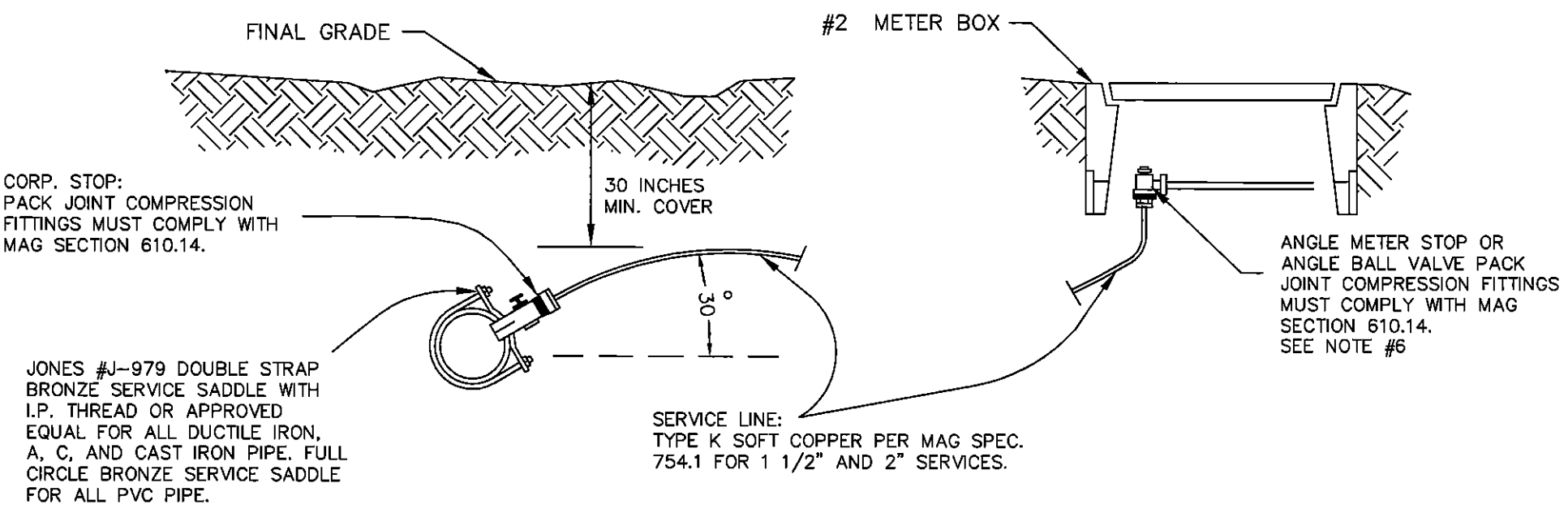
NOTES

1. All joints in hydrant run–out to be restrained joints.
2. See MAG Std. Detail 391–C for valve box installation.
3. For water valve blocking see MAG Std. Detail 301.
4. For additional information see MAG Std. Detail 360.





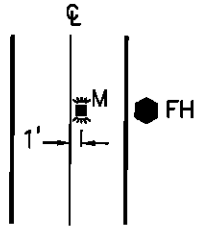
DETAIL NO. 2361	City of Scottsdale Standard Details	APPROVED BY:	FIRE HYDRANT BYPASS ASSEMBLY	DETAIL NO. 2361



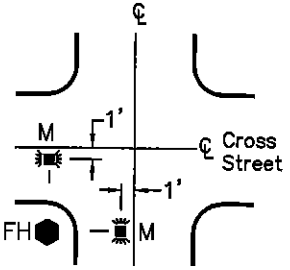
REVISED 4/7/00

NOTE:
1. All taps must be made using a service saddle.
2. All service line sizes shall have the pack joint compression fittings for corp. stops and meter stops.
3. Where a contractor is installing new water lines, he shall also install the water service connection. The installation shall include the service saddle, corp. stop, service pipe, appurtenant fittings, meter stop, concrete meter box and box cover, per M.A.G. Specifications.
4. Copper service lines in the 1 1/2", and 2" sizes that cross streets will be one continuous piece. Only with the express written consent of Water & Wastewater Operations will joints be permitted under a road. When this occurs, pack joint fittings will be required; no soldered joints will be permitted.
5. When all or part of a development is to be served by existing City of Scottsdale water mains, only authorized City of Scottsdale Water and Wastewater Operations personnel shall install the fire service connection.
6. Fire Department Identification Tag is required. Water resistant tag shall be affixed to valve in meter box and shall state: "DO NOT CLOSE! Fire Sprinkler Supply Line".

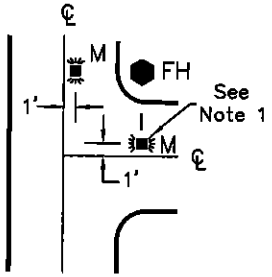
DETAIL NO. 2362	City of Scottsdale Standard Details	1 1/2" - 2" FIRE LINE CONNECTION	DETAIL NO. 2362



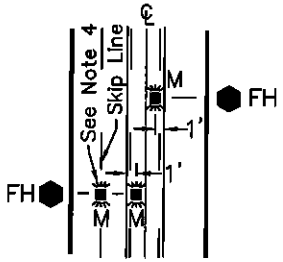
Midblock Local



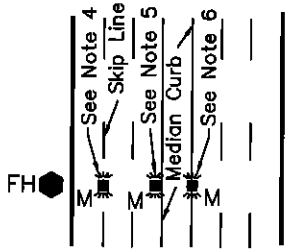
Local Cross Intersection



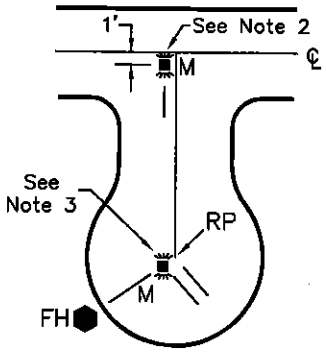
Local 'T' Intersection



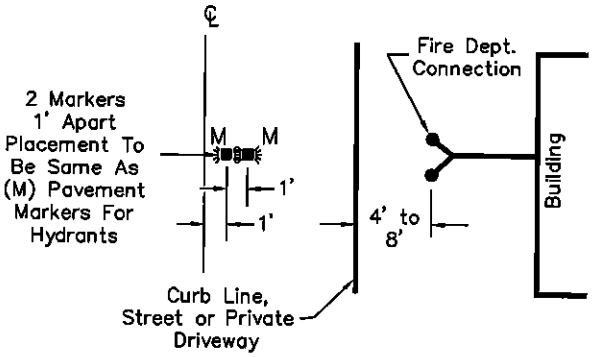
Midblock
WITH CENTER LANE OR SKIP LINES



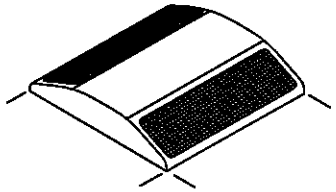
Midblock
WITH RAISED MEDIAN



Cul-De-Sac Street



Fire Dept. Connection



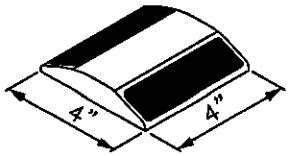
(M) Pavement Marker
(2–WAY REFLECTIVE BLUE)

NOTES:

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

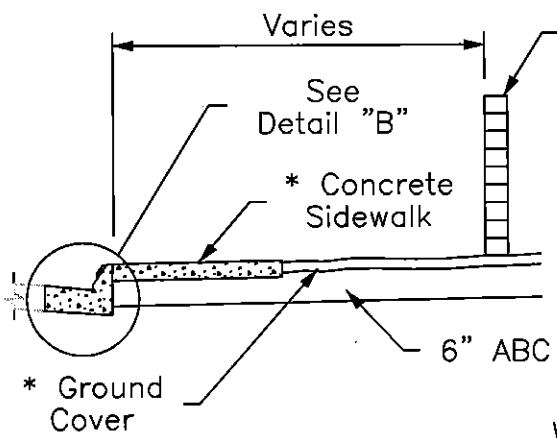
REVISED 6/15/91

DETAIL NO. 2363	City of Scottsdale Standard Details	APPROVED BY: _____	PAVEMENT MARKERS FOR FIRE HYDRANTS	DETAIL NO. 2363

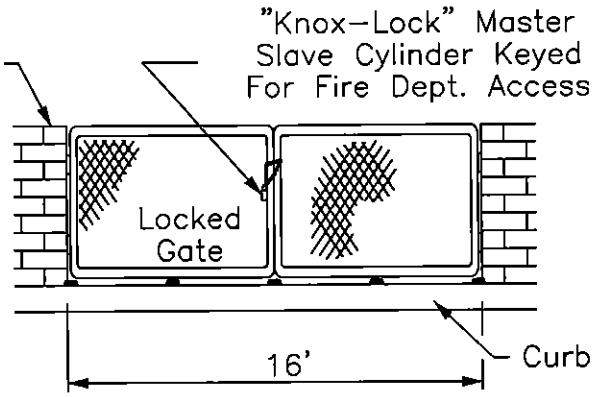


Type M Pavement Marker
(2-WAY REFLECTIVE BLUE)

DETAIL "A"

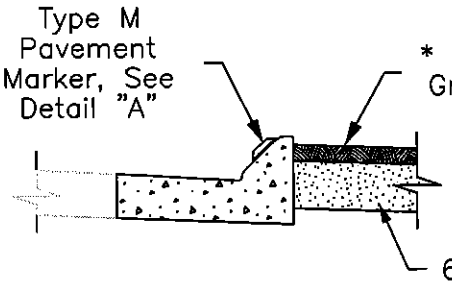


SIDE VIEW

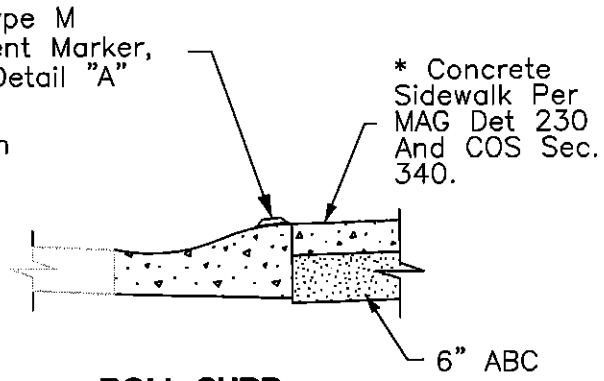


FRONT VIEW

* NOTE:
Sidewalk And/Or 2" Max. Ground Cover Over Min. 6" ABC

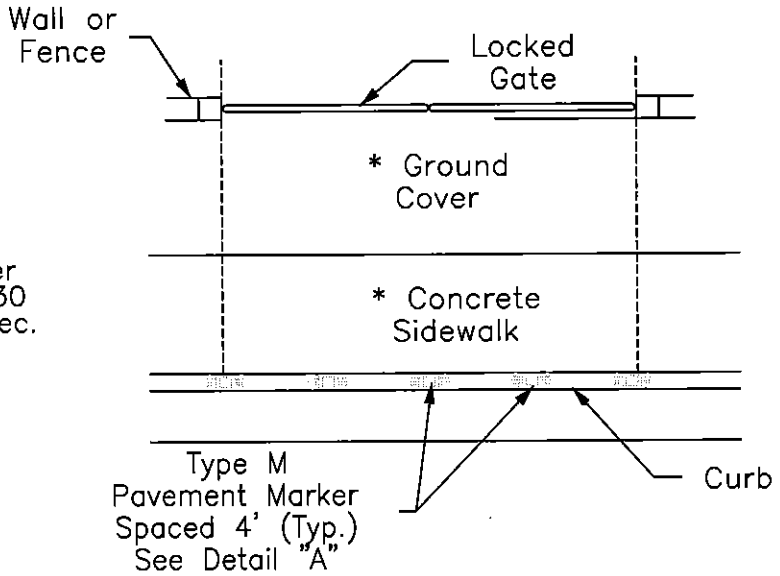


TYPE "M" MOUNTABLE CURB AND GUTTER



ROLL CURB

DETAIL "B"



TOP VIEW

DETAIL NO. 2364	City of Scottsdale Standard Details	APPROVED BY: _____	FIRE AND EMERGENCY ACCESS AND DELINEATION	DETAIL NO. 2364

NOTES:

1. At the beginning and end of the fire lane, the sign shall have a single headed arrow pointing in the direction the regulation is in effect. The intermediate signs shall have double headed arrows pointing in both directions.

2. The maximum spacing of the signs shall be 100', contingent upon Traffic Engineering's review and approval.

3. The signs shall be set at an angle of not less than 30° nor more than 45° with the curb or line of traffic flow

4. The clearance to the bottom of the sign shall be 7 feet. There shall be no other signs attached to the sign or the sign pole.

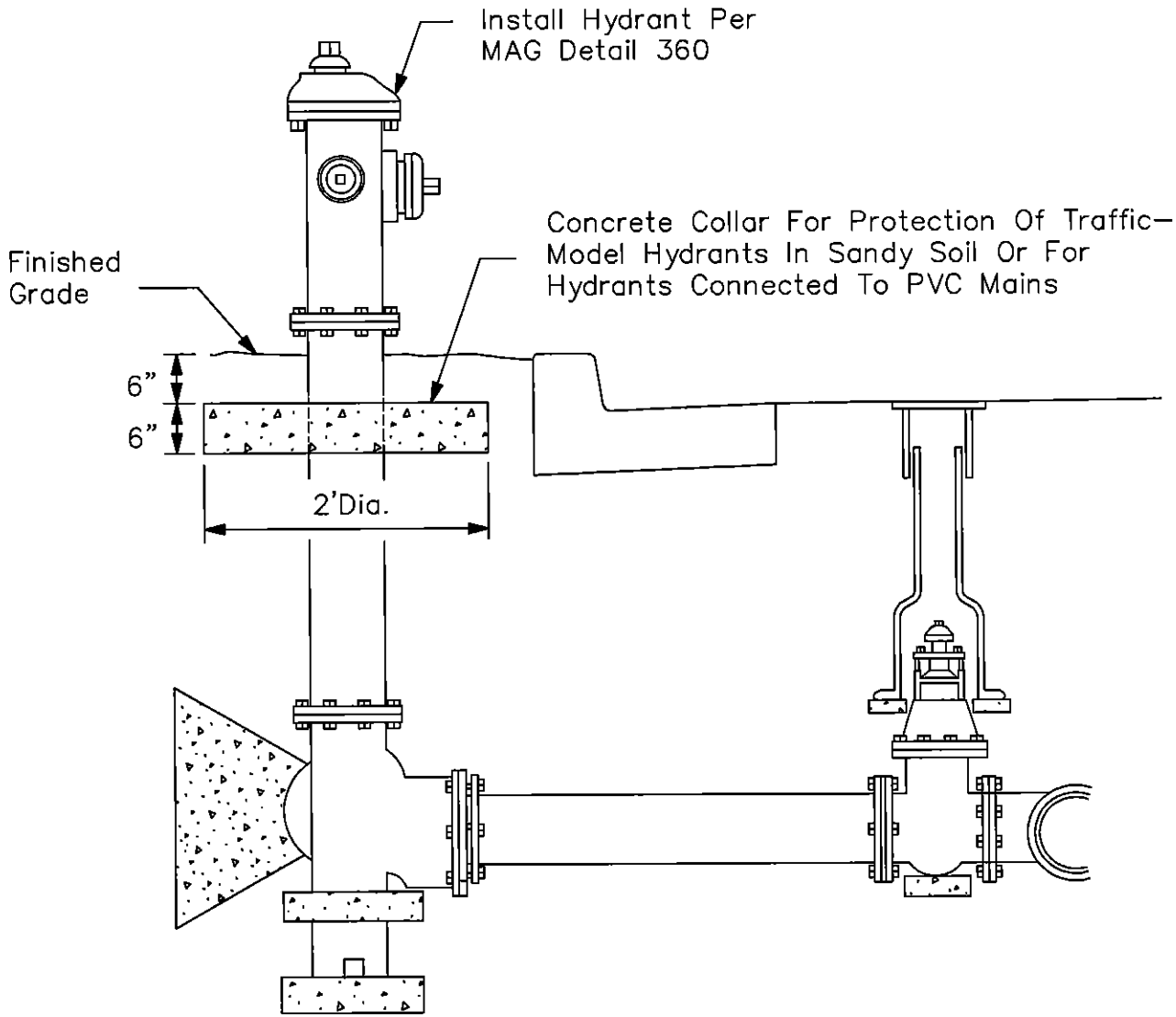
5. The sign plate shall be a minimum of 12'' x 18'' with a thickness of 0.80".

6. The sign face shall have a white, ASTM Type II (super engineering grade) reflective background with a red reflective legend. Use the standard sign face number R7–32 or equivalent incorporating additional information to complete the sign as shown above.

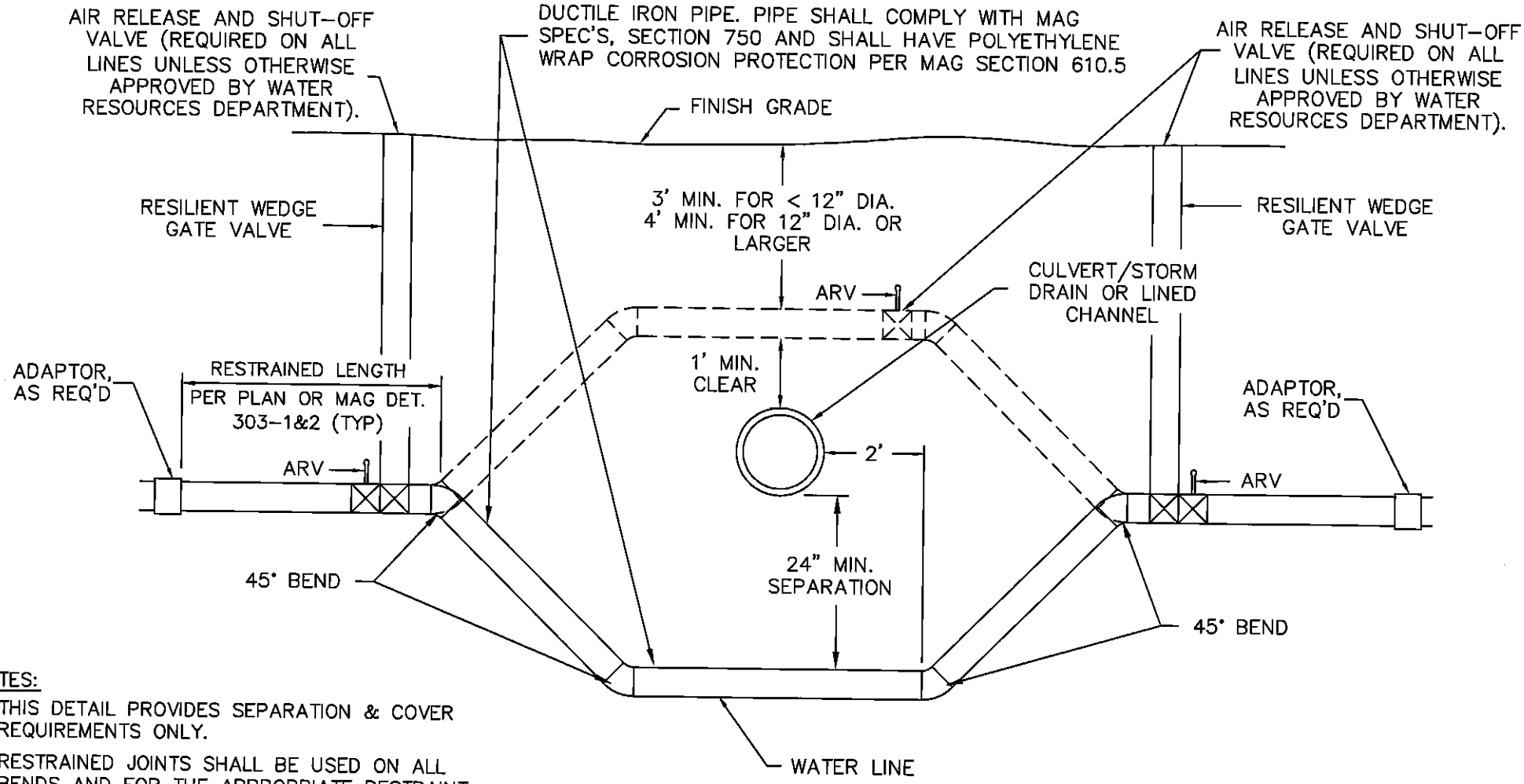
DETAIL NO. 2365 | City of Scottsdale Standard Details

FIRE LANE SIGN

DETAIL NO. 2365



DETAIL NO. 2366	City of Scottsdale Standard Details	CONCRETE COLLAR FOR FIRE HYDRANTS	DETAIL NO. 2366

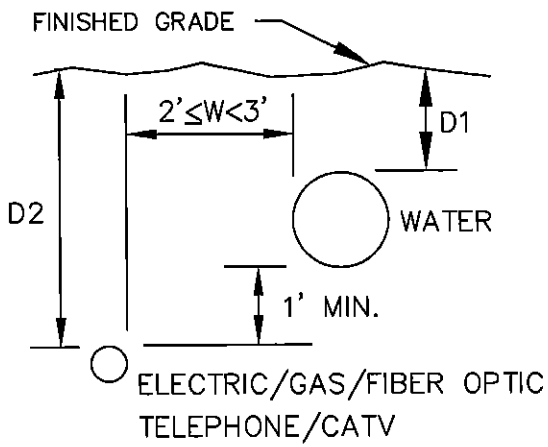


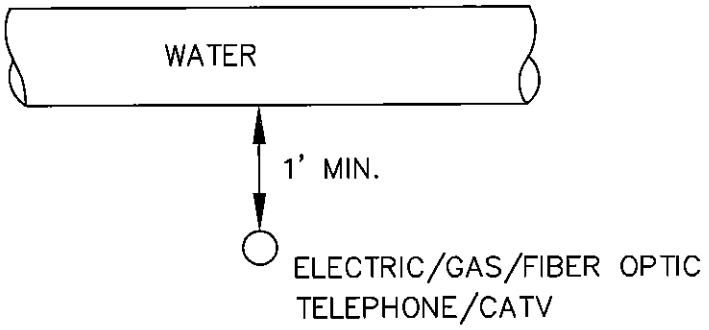
NOTES:

1. THIS DETAIL PROVIDES SEPARATION & COVER REQUIREMENTS ONLY.
2. RESTRAINED JOINTS SHALL BE USED ON ALL BENDS AND FOR THE APPROPRIATE RESTRAINT LENGTH OF PIPE PER THE MANUFACTURERS SPECIFICATION.

DETAIL NO. 2370	City of Scottsdale Standard Details	VERTICAL REALIGNMENT OF WATER MAINS	DETAIL NO. 2370

REVISED 2/27/02

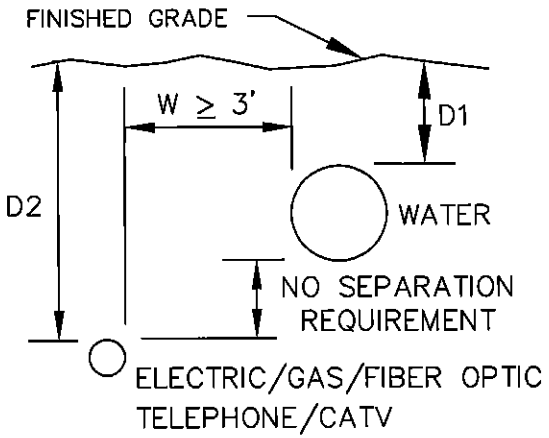




CROSSING

LEGEND

D1 = 3' Min. for pipe < 12" dia
D1 = 4' Min. for pipe ≥ 12" dia
D2 = Minimum Cover
W = Horizontal Separation



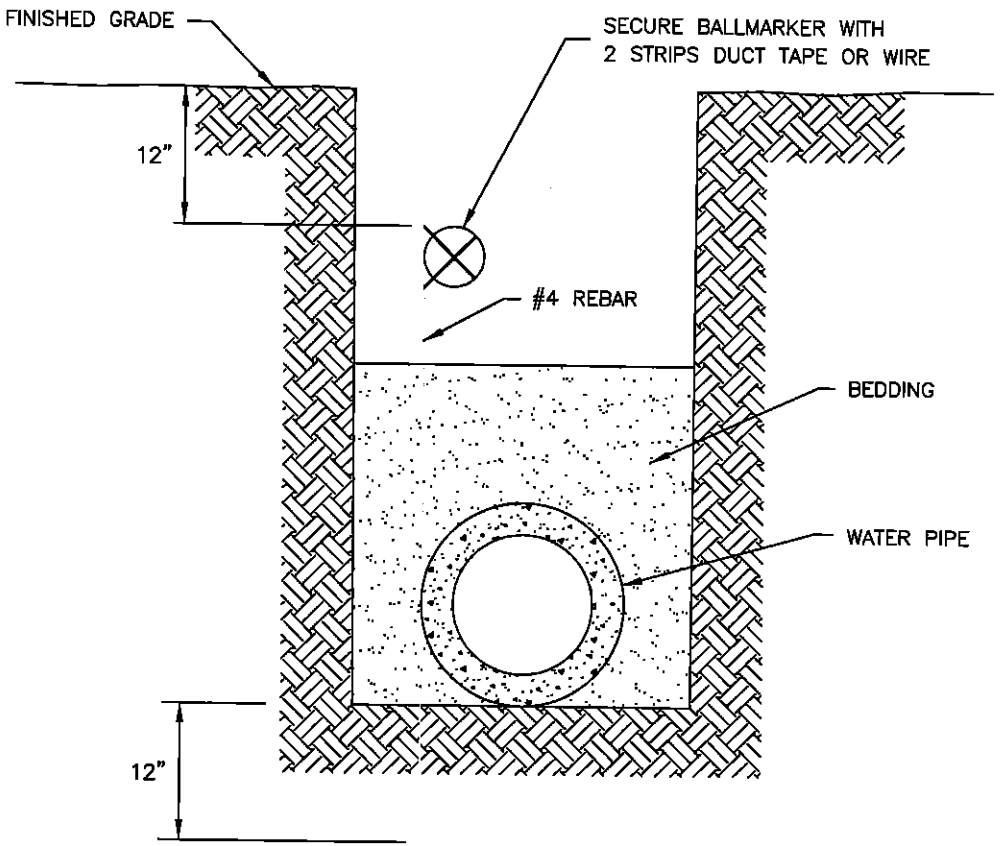
NOTES

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

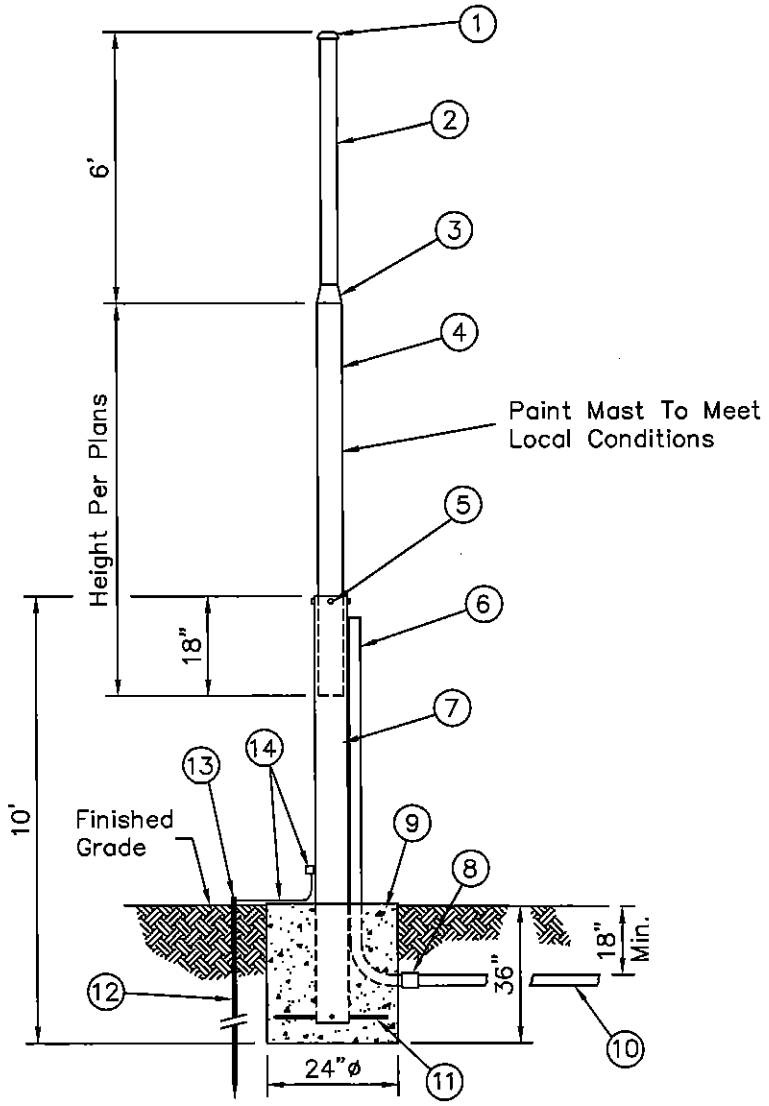
2. Primary electric, gas, telephone, cable TV or fiber optic lines shall not cross above a water line without written approval from the City's Water Resources Department. If this approval is obtained, a utility locator strip and ABC slurry conforming to COS Specifications Sec. 601.3.6 are required.

REVISED 8/29/96

DETAIL NO. 2372	City of Scottsdale Standard Details	APPROVED BY:	MINIMUM UTILITY SEPARATION REQUIREMENTS	DETAIL NO. 2372



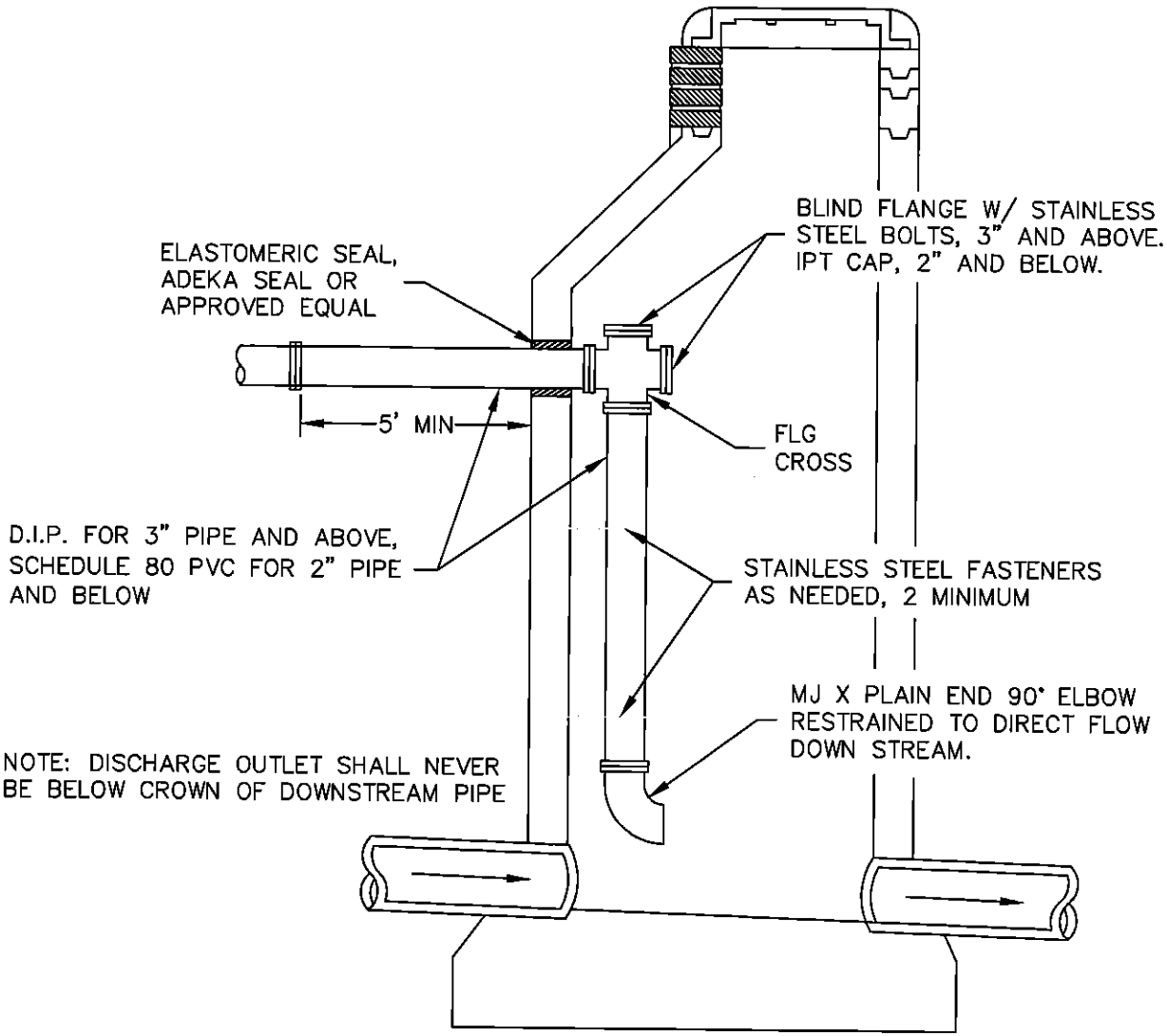
DETAIL NO. 2397	City of Scottsdale Standard Details	ELECTRONIC BALLMARKER PLACEMENT	DETAIL NO. 2397



LIST OF MATERIALS

1. Raintight Cap
2. 2" Galvanized Rigid Steel Conduit
3. 2 1/2" To 2" Galvanized Steel Reducer
4. 2 1/2" Galvanized Rigid Steel Conduit
5. 1/2" Set Screw (Typ. – 4 Each)
6. 1" Rigid Steel Conduit, Strap To Mast
   Install Bushing On Top Of Conduit
7. 3" Galvanized Rigid Steel Conduit
8. PVC To Rigid Steel Conduit Fitting
9. Concrete Foundation, Class "B"
10. 1" PVC Conduit To Radio Transceiving Unit
11. #5 Rebar (8" Length) Welded To
    3" Conduit (Typ. – 4 Each)
12. 5/8"ø x 8' Long Grounding Rod
13. Acorn Nut Connection
14. Ground Attached To 3" Conduit
    Using Lug And Self Tapping Screw

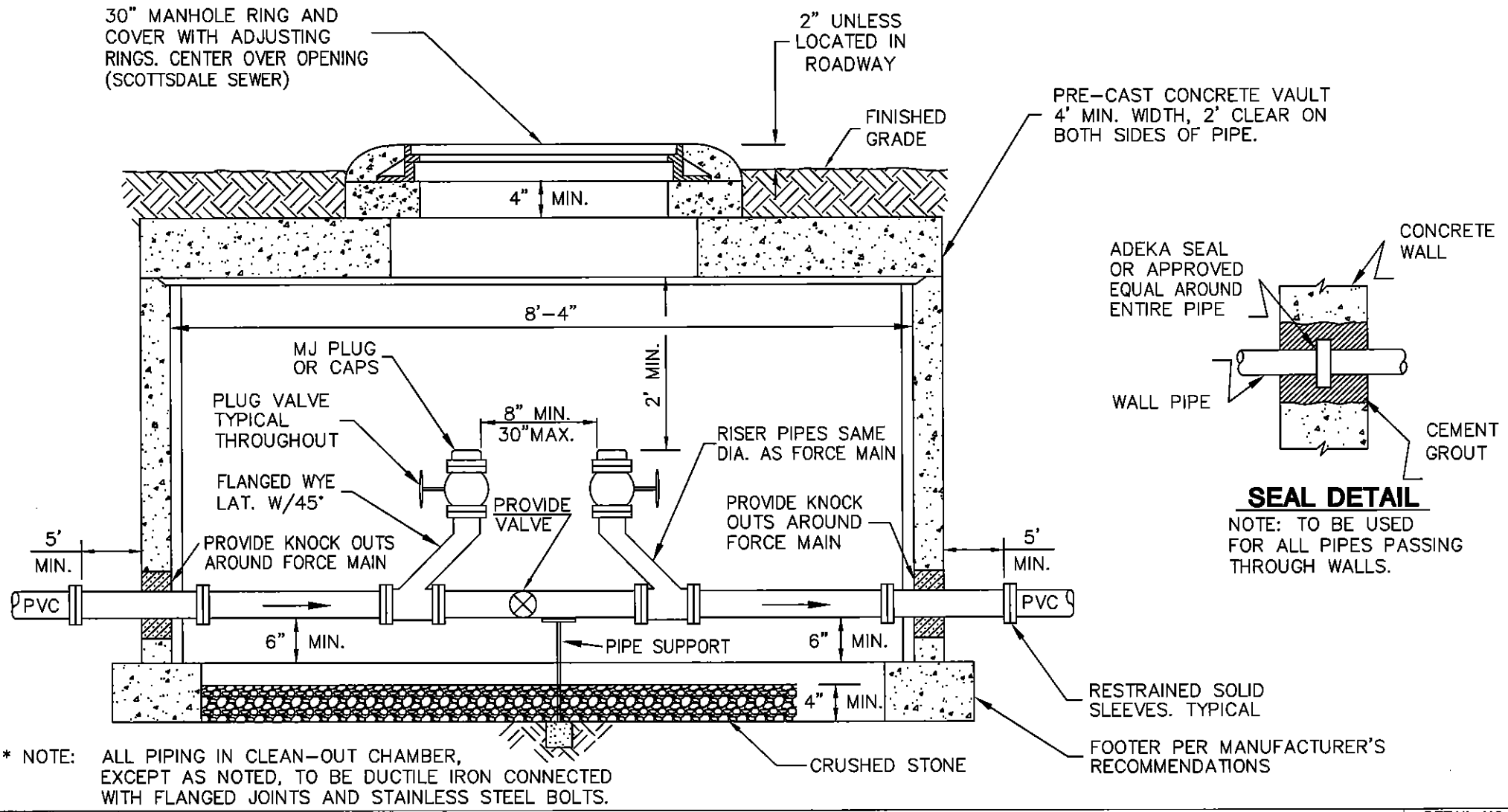
DETAIL NO. 2398	City of Scottsdale Standard Details	APPROVED BY:	ANTENNA MAST DETAIL	DETAIL NO. 2398



DETAIL NO. 2402 | City of Scottsdale Standard Details

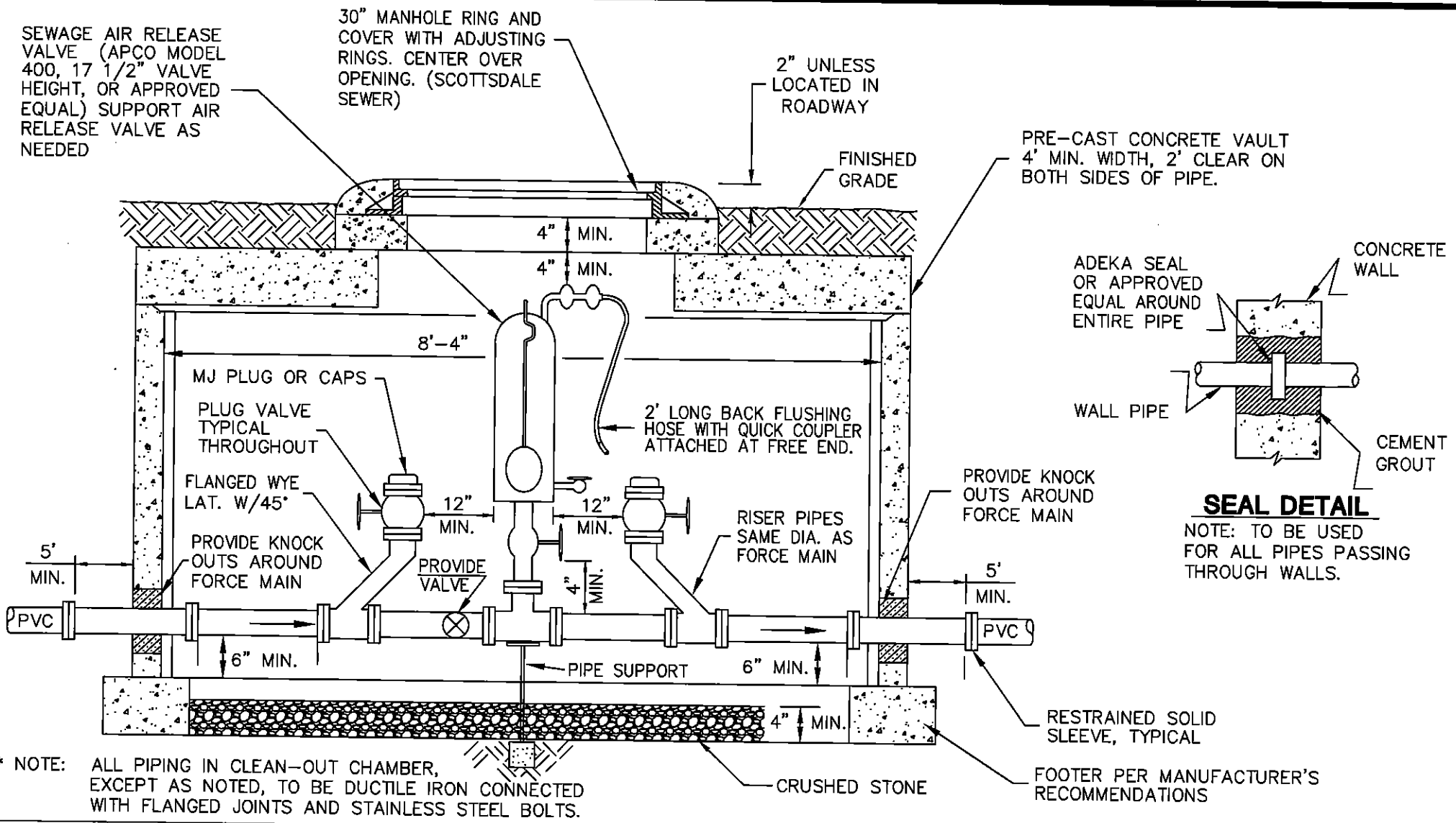
FORCE MAIN DISCHARGE MANHOLE

DETAIL NO. 2402



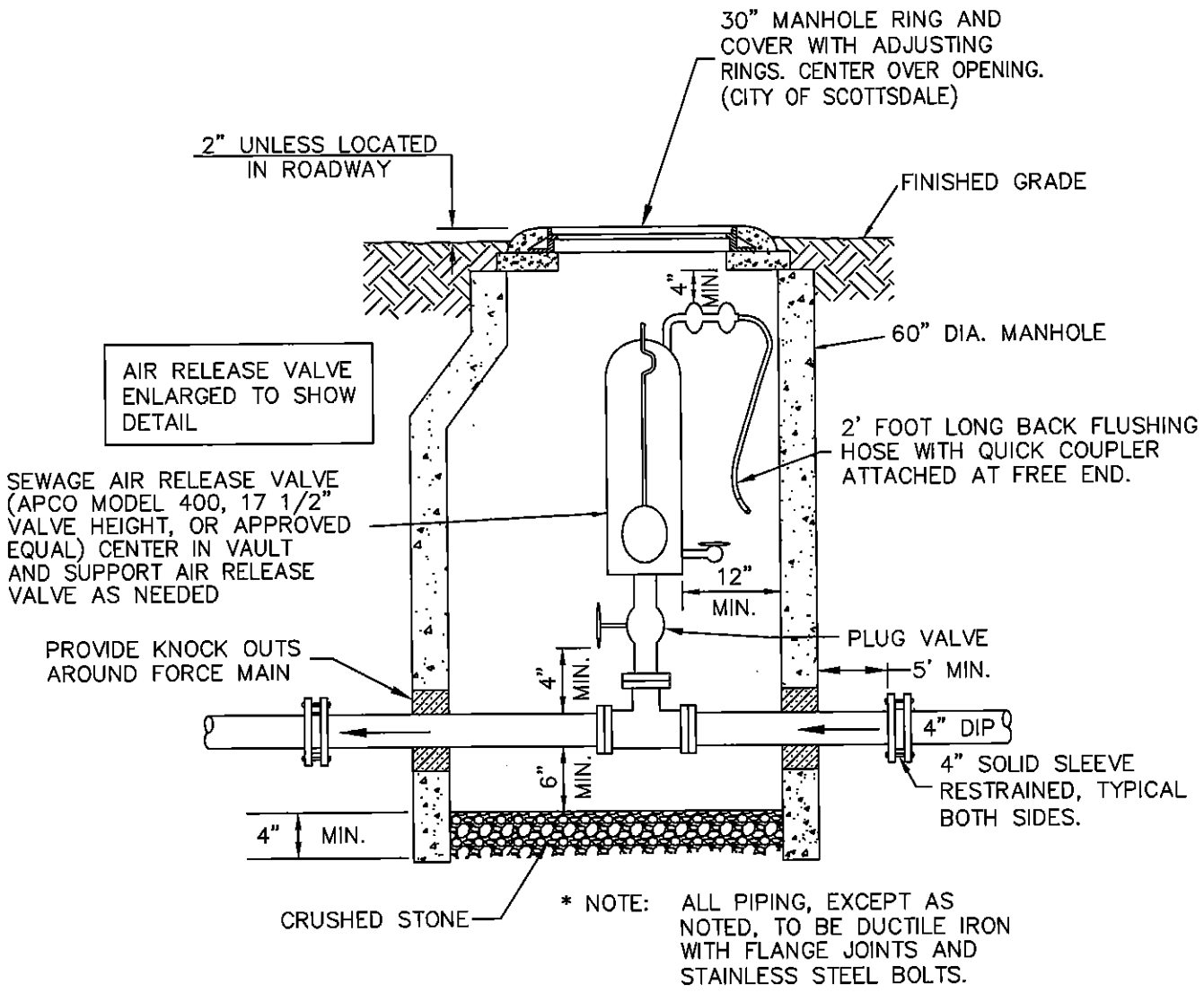
* NOTE: ALL PIPING IN CLEAN-OUT CHAMBER, EXCEPT AS NOTED, TO BE DUCTILE IRON CONNECTED WITH FLANGED JOINTS AND STAINLESS STEEL BOLTS.

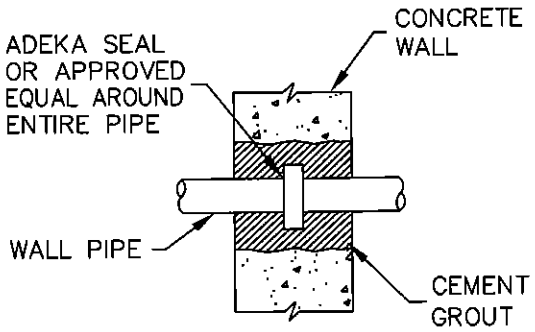
DETAIL NO. 2403	City of Scottsdale Standard Details	TWO-WAY FORCE MAIN CLEAN-OUT - 3" AND ABOVE	DETAIL NO. 2403



* NOTE: ALL PIPING IN CLEAN-OUT CHAMBER, EXCEPT AS NOTED, TO BE DUCTILE IRON CONNECTED WITH FLANGED JOINTS AND STAINLESS STEEL BOLTS.

DETAIL NO. 2404	City of Scottsdale Standard Details	FORCE MAIN CLEAN-OUT W/ SEWAGE AIR RELEASE VALVE	DETAIL NO. 2404

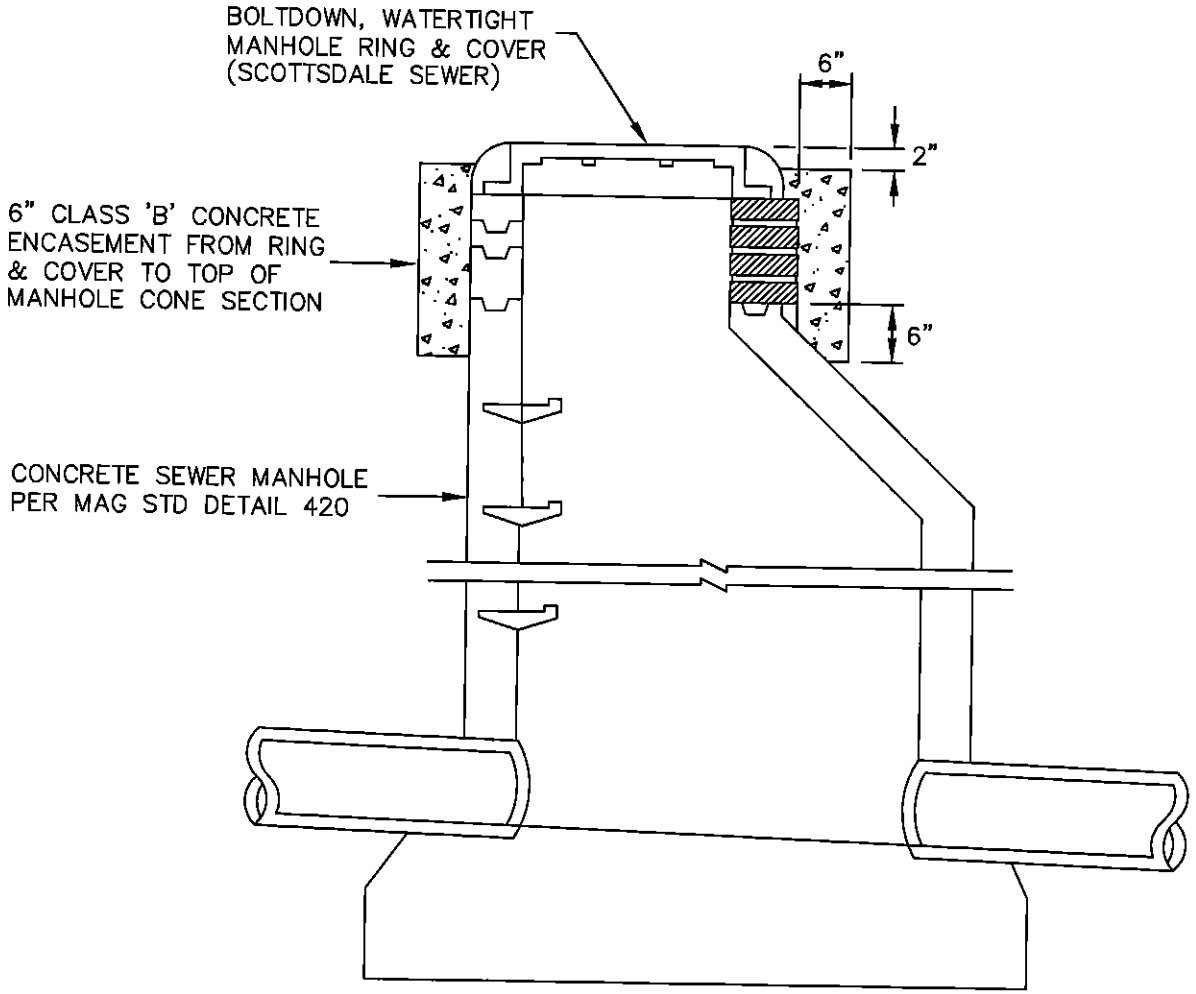




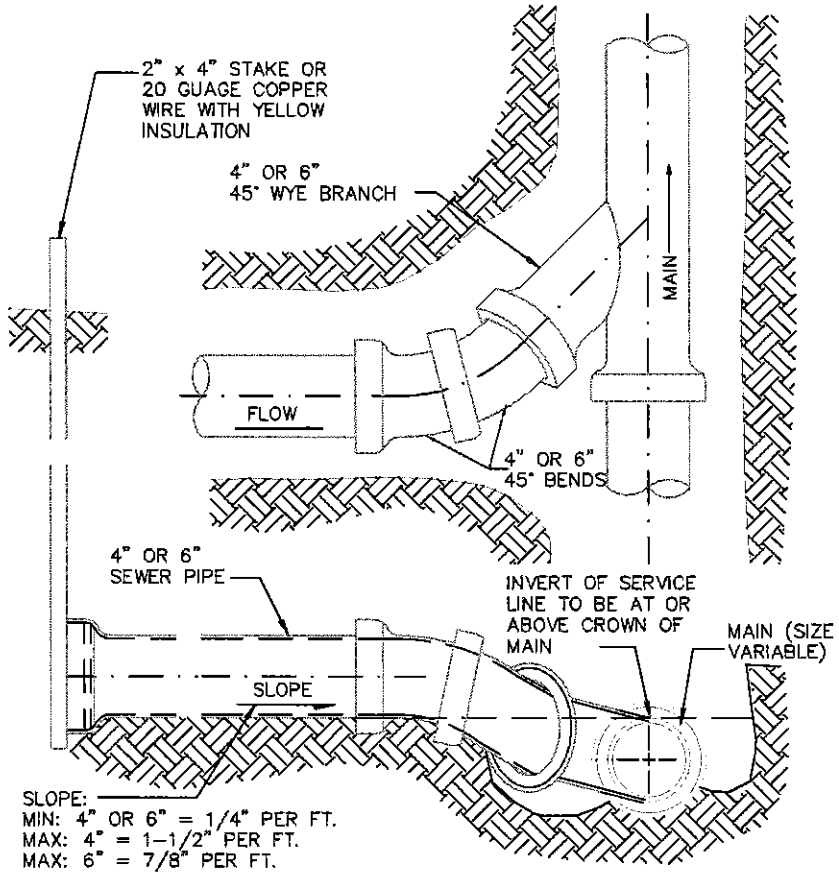
SEAL DETAIL

NOTE: TO BE USED FOR ALL PIPES PASSING THROUGH WALLS.

DETAIL NO. 2405	City of Scottsdale Standard Details	SEWER AIR RELEASE VALVE	DETAIL NO. 2405

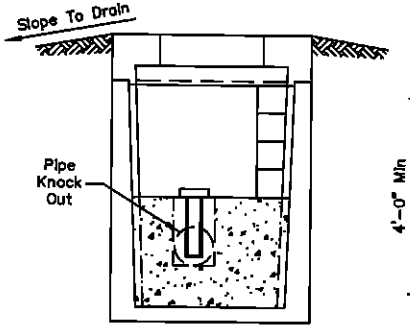


DETAIL NO. 2420	City of Scottsdale Standard Details	WATER TIGHT CONCRETE SEWER MANHOLE	DETAIL NO. 2420



1. CONSTRUCTION DETAIL APPLIES WHERE CONTRACTOR BUILDS HOUSE CONNECTION. TAP EXTENDS TO PROPERTY LINE IN ALLEYS OR STREETS OR TO EASEMENT LINE.
2. SIZE OF TAP SHALL BE DESIGNATED ON PLANS.
3. CONSTRUCT TAP AT MINIMUM SLOPE IF COVER WILL BE LESS THAN 5' AT PROPERTY LINE.
4. IF DEPTH REQUIRES, MINIMUM SLOPE CAN BE REDUCED TO 1/8" PER FOOT PROVIDED STUB IS STAKED TO GRADE.
5. ALL FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D-2321. THE CONTRACTOR MAY VARY FROMTHE DRAWING TO USE THE APPROPRIATE WYES, TEE-WYES AND BENDS TO ENSURE NO MISALIGNMENT OF THE PIPE AND FITTINGS. BLOCK OR BRACE FITTING JOINTS TO ENSURE ZERO DEGREES ANGULAR JOINT DEFLECTION.
6. END OF TAP TO BE SEALED AND MARKED AS NOTED.

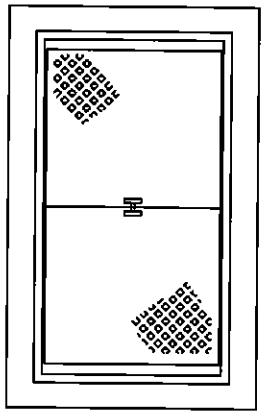
DETAIL NO. 2440	City of Scottsdale Standard Details	SEWER BUILDING CONNECTION	DETAIL NO. 2440



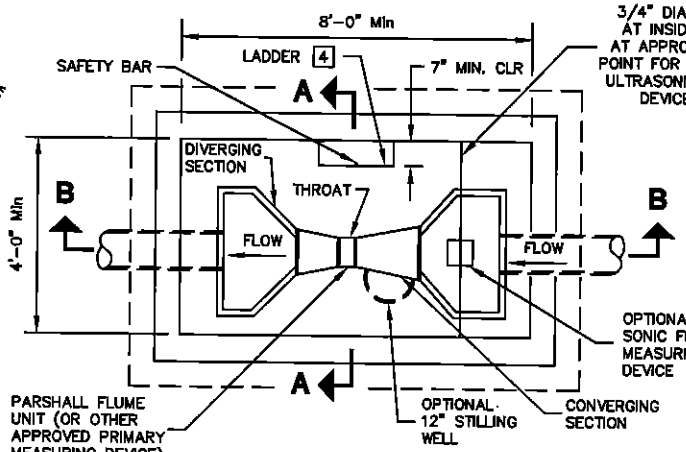
SECTION A–A

PRE–CAST VAULT

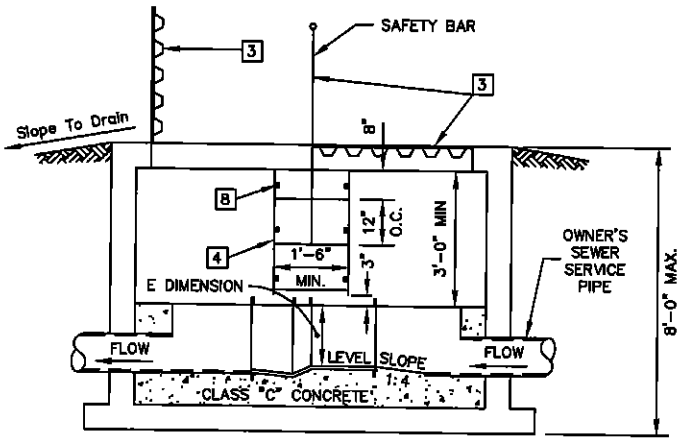
UTILITY VAULT CO.
VAULT NO. 575–BL,
NO. 577–BL OR
APPROVED EQUAL



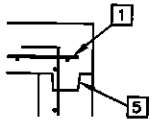
COVER WITH LID



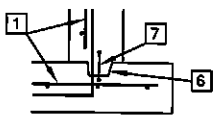
PLAN VIEW (TYP.)



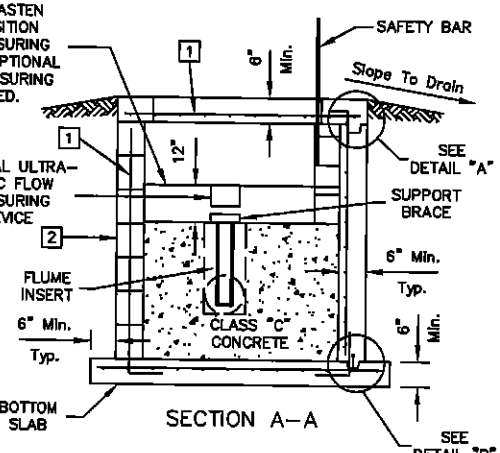
SECTION B–B



TOP KEY
DETAIL "A"



BOTTOM KEY
DETAIL "B"



SECTION A–A

CAST–IN–PLACE VAULT

NOTES:

1. Reinforced steel and clearance as approved by the engineer.
2. Block masonry may be used in lieu of CIP walls. 8" block masonry, grout each cell to full hieght (grout per MAG Section 776).
3. 2 Torsion spring assisted 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 OSHA requirements for Type IA (300 lbs) service shall be submitted for review prior to furnishing and installing. Mill finished aluminum ladder or approved corrosion resistant material.
5. 2"x 4" key, center on wall. (install rope caulk continuously).
6. 1–5/8"x 2–1/2"x 3" key.
7. 4" PVC dumbell type continuous waterstop 3/8" min. thickness. (Wash thoroughly prior to installation.
8. Anchor straps (3 each side) with 5/8" x 3–1/2" 316SS anchor bolts with lock washer and nut.

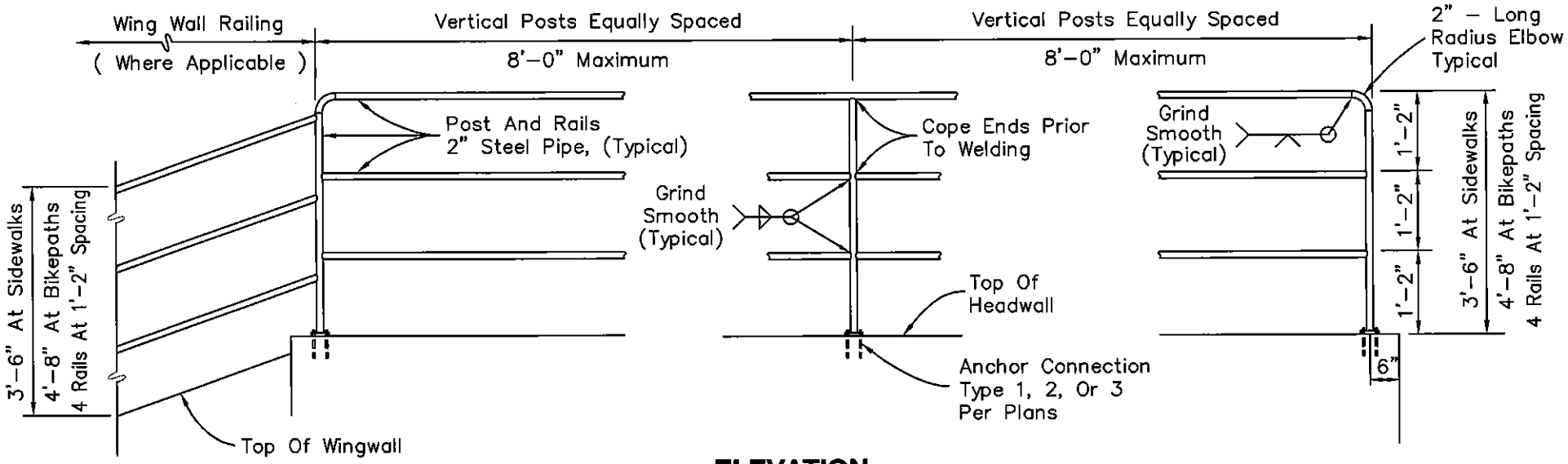
GENERAL NOTES

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 bars, Grade 60, billet steel conforming to ASTM Specification No. A–615, latest edition.
5. The Monitoring/Sampling Vault shall be installed on the owner's property as close to the customer tap to the City sewer as feasible, and approved by the City of Scottsdale.
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.
8. Upstream flow should be wave free, non–turbulent, and symmetrical having a uniform velocity (1fps minimum to 3 fps maximum) at least 10 times the diameter of the upstream sewer pipe in length in the approach channel. Bends upstream in the flume will NOT be allowed for a distance of 25 pipe diameters unless conditions in the approach section of the flume will not be adversely affected.
9. The flume shall be installed off–center and away from the ladder to allow the maximum working space for City personnel.
10. It shall be the owner's responsibility to properly maintain the flume in accordance with the manufacturers recommendations to ensure the accuracy of the measurement.

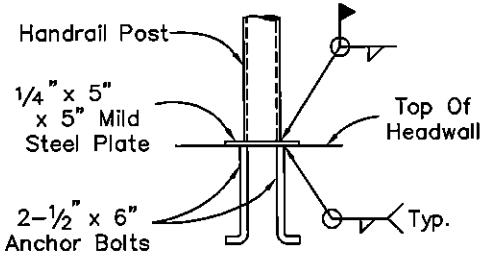
EQUIPMENT DESCRIPTION

A Fisher and Porter type 10F1940, Hinde Engineering Company, PS–1001, or approved equal molded fiberglass reinforced polyester Parshall Flume shall be installed. The flume shall be molded in one piece with ample wall thickness and reinforcing ribs to prevent distorsion during shipment, installation and operation. The flume shall be self–supporting and require no external supporting structure. Interior dimensions shall conform to those in the latest revision of Water Measurement Manual published by the U.S. Department of the Interior, Water and Power Resources Services. The throat width and flume height ("E dimension) shall be per plan.

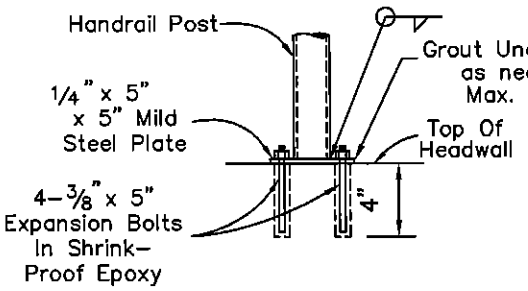
DETAIL NO. 2460	City of Scottsdale Standard Details	APPROVED BY: _____	MONITORING/SAMPLING VAULT	DETAIL NO. 2460



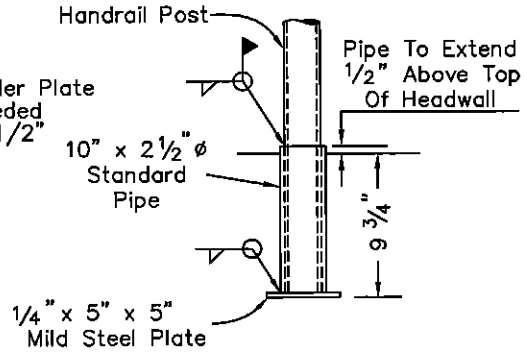
ELEVATION



TYPE 1
ANCHOR PLATE DETAIL



TYPE 2
EXPANSION BOLT DETAIL



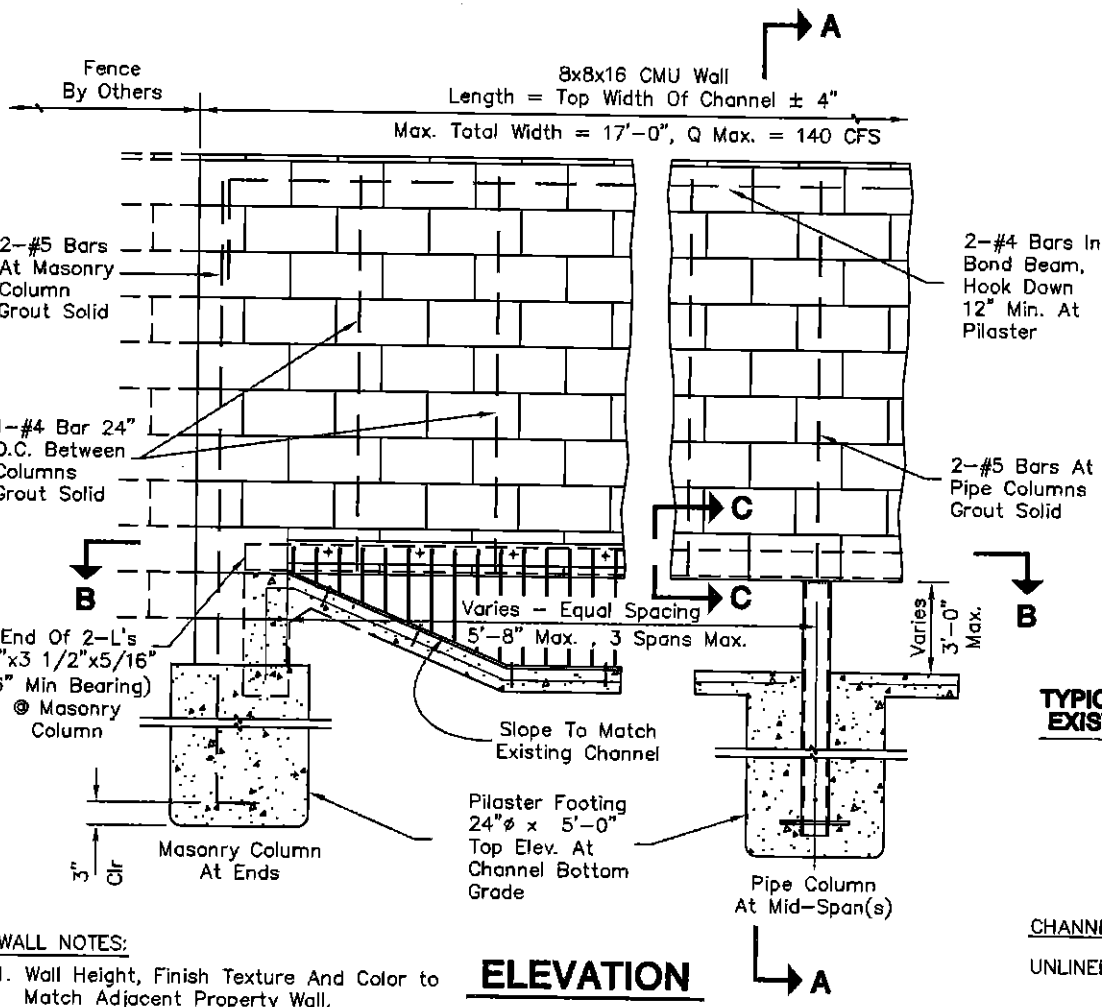
TYPE 3
PIPE SLEEVE DETAIL

CONSTRUCTION NOTES

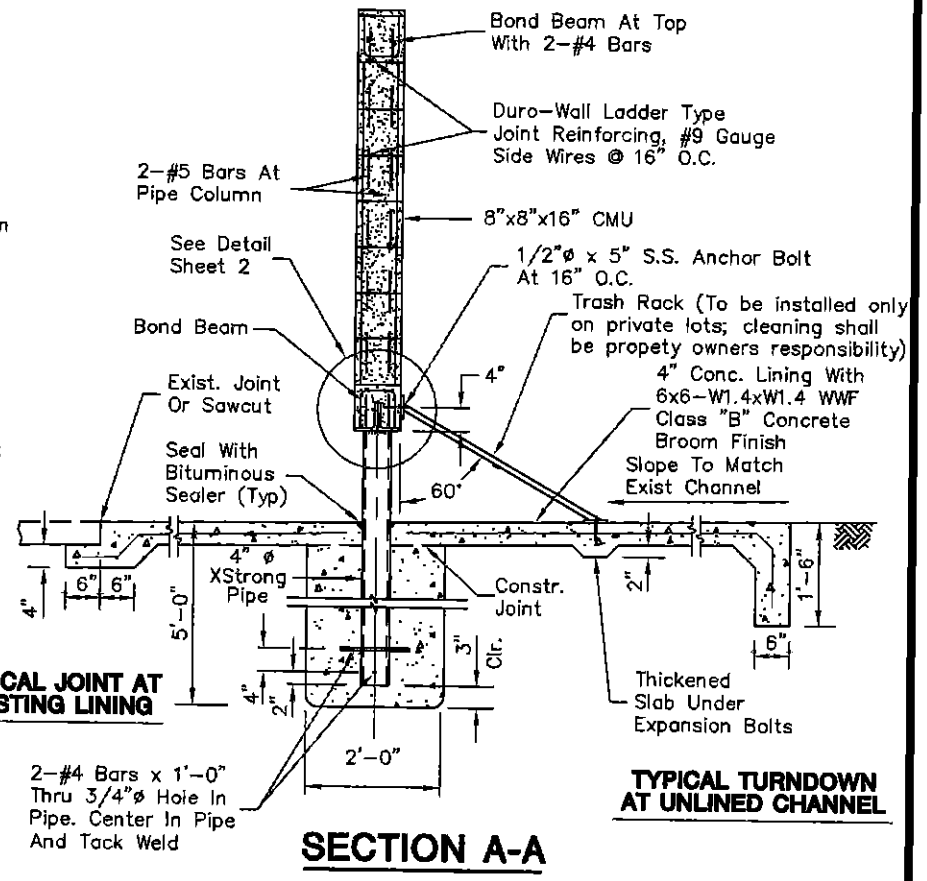
1. Paint handrail per MAG Specifications Section 530. Color per plans.
2. Vertical posts to be evenly spaced.

REVISED 3/28/02

DETAIL NO. 2508	City of Scottsdale Standard Details	HANDRAIL DETAIL	DETAIL NO. 2508



ELEVATION



TYPICAL JOINT AT EXISTING LINING

TYPICAL TURNDOWN AT UNLINED CHANNEL

SECTION A-A

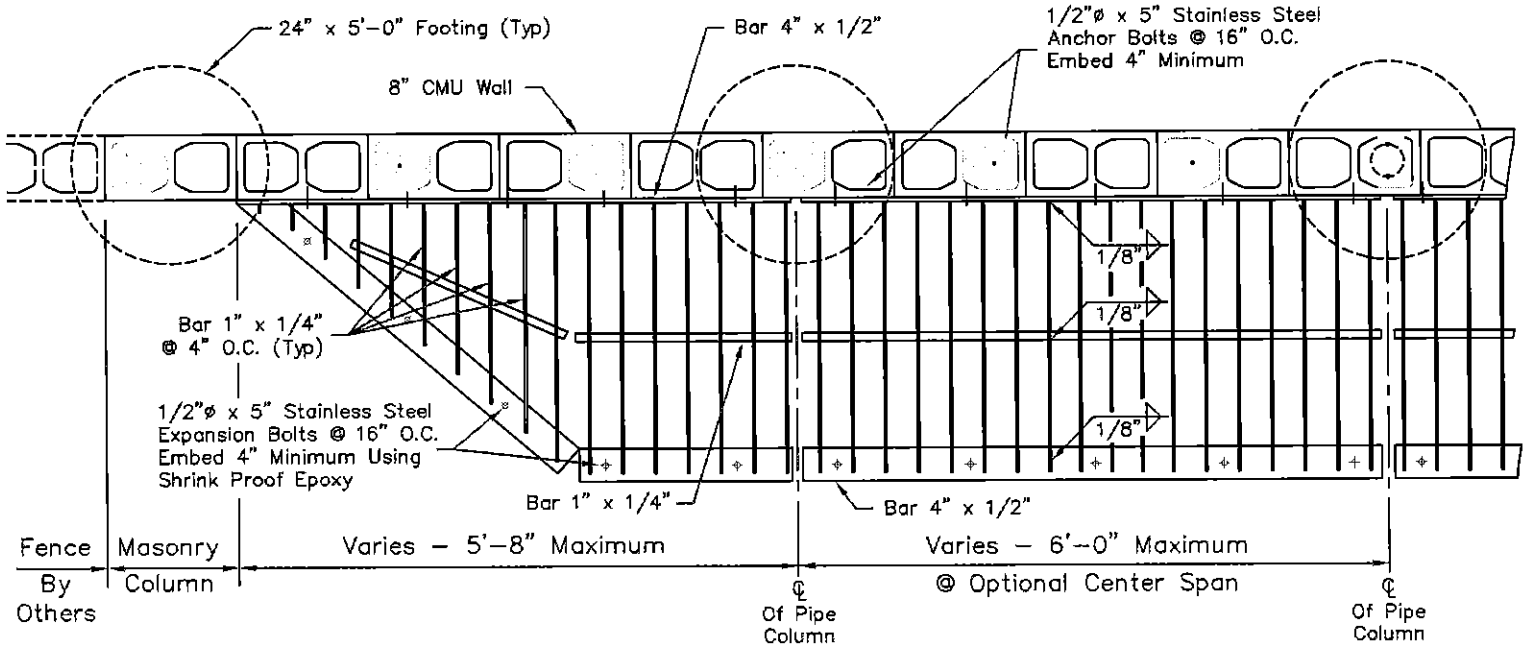
WALL NOTES:

1. Wall Height, Finish Texture And Color to Match Adjacent Property Wall.
2. Construction To Conform to MAG Section 510.
3. Trash Rack Grate Required on Private Lots only; And Property Owner Shall Be Responsible for Cleaning.

CHANNEL NOTES:

UNLINED CHANNELS: Construct New Lining 6' Minimum Upstream And Downstream From Wall With Turndown At All Edges Of Lining.

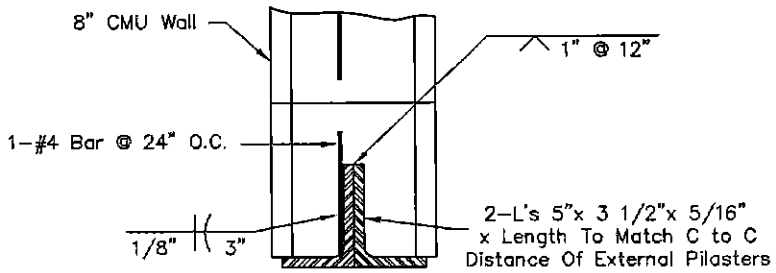
EXISTING LINED CHANNELS: Remove Existing Lining 4' Minimum Upstream And Downstream From Wall. Replace Using Joint Shown.



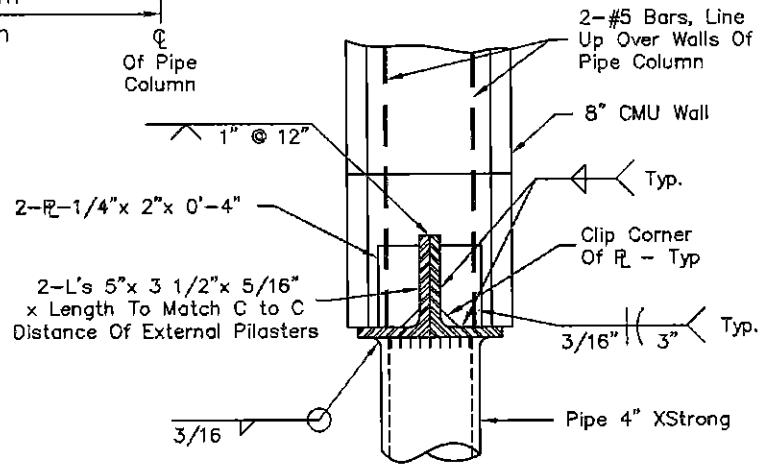
SECTION B-B

GRATE NOTES:

1. Steel Work Shall Conform To Mag Sections 515 And 770.
2. Shop Drawings Are Not Required. Contractor Shall Be Responsible For Correct Fit Between The Trash Rack, Channel And Wall As Constructed In The Field.
3. Shop Prime Steel And Touch-Up Per MAG Section 515.5. Apply A Second Coat After Erection And A Finish Coat Of Alkyd Enamel To Match Wall Finish Color.
4. Grate Required on Private Lots Only. Property Owner Responsible for Cleaning.



SECTION C-C

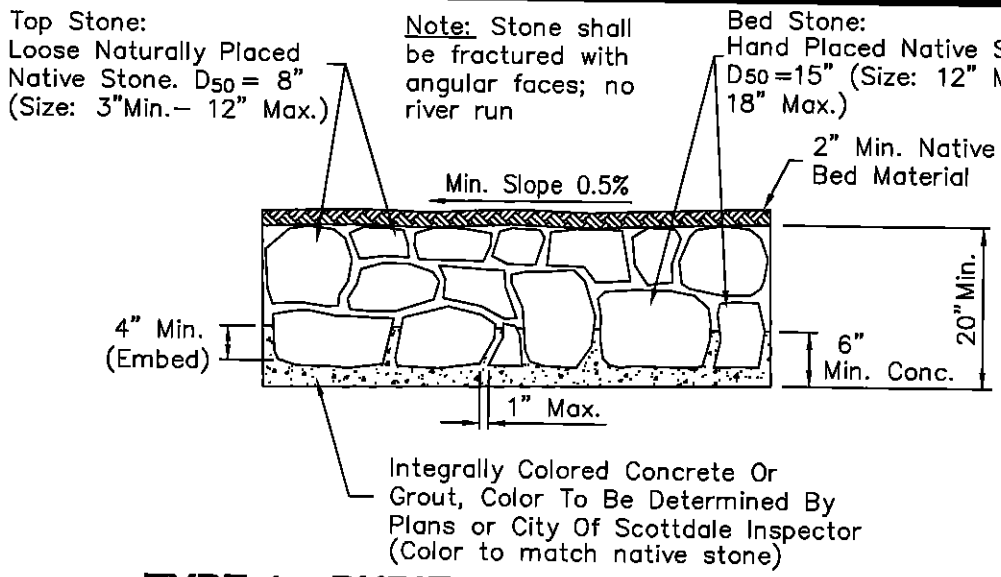


DETAIL AT PIPE COLUMN

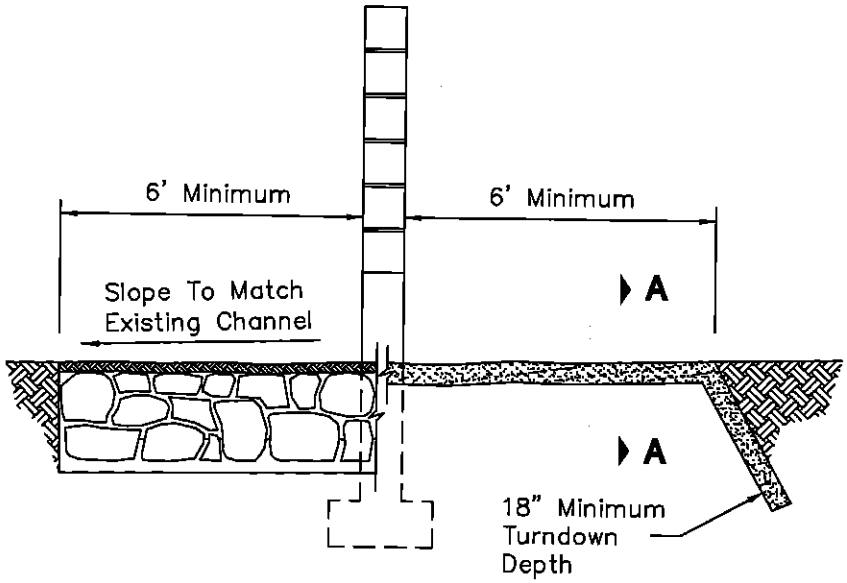
DETAIL NO. 2515-2 | City of Scottsdale Standard Details

DRAINAGE GRATE AT BLOCK WALL

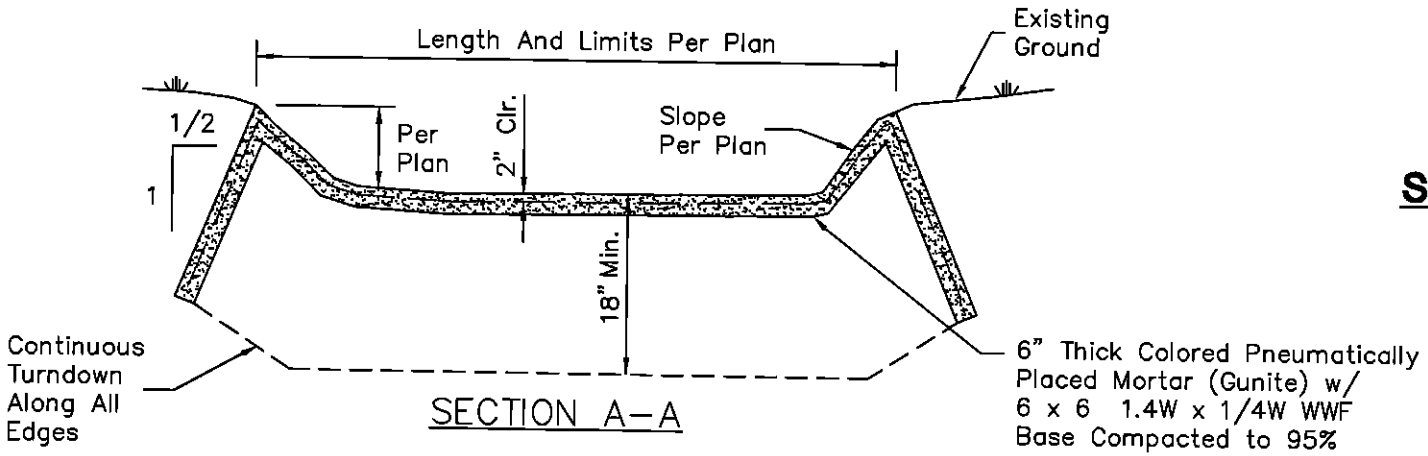
DETAIL NO. 2515-2



TYPE 1 - BURIED GROUTED RIP-RAP DETAIL

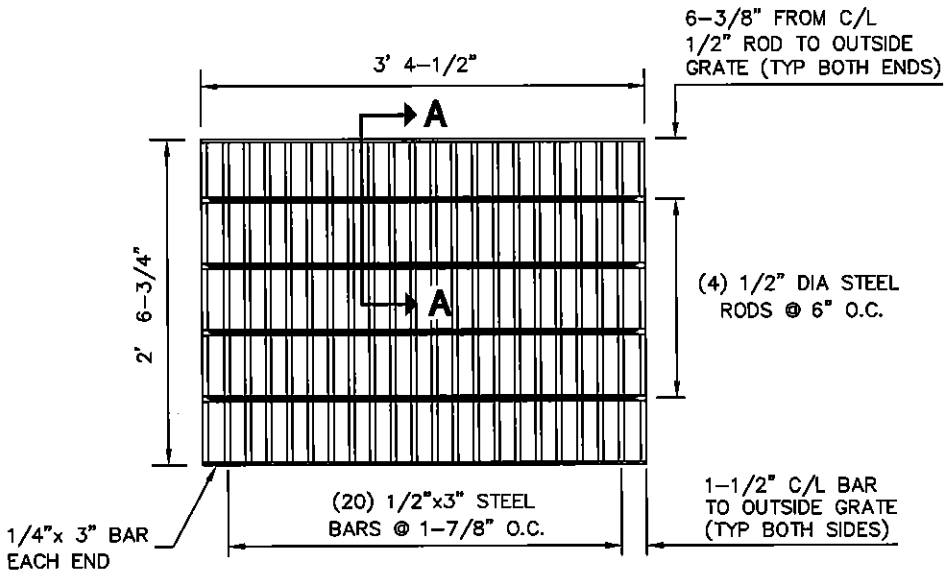


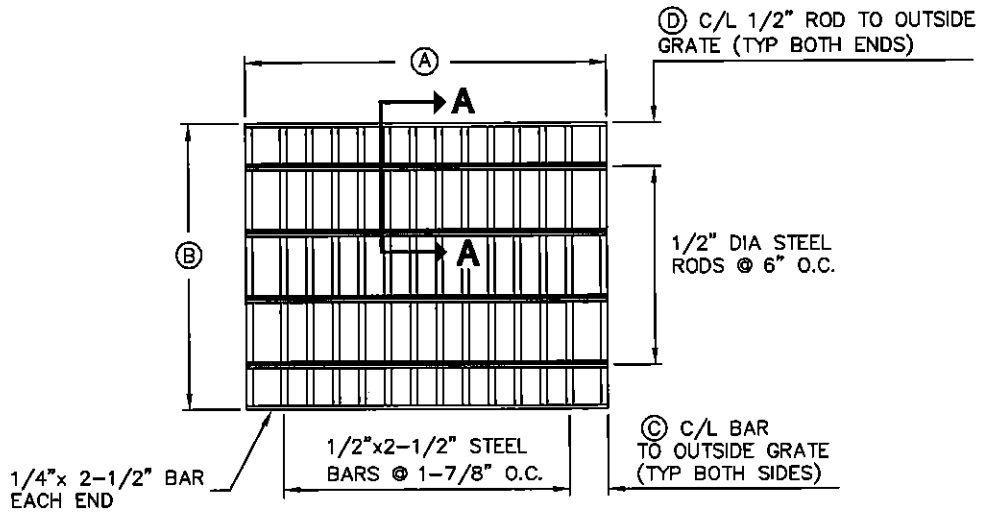
SECTION AT WALL



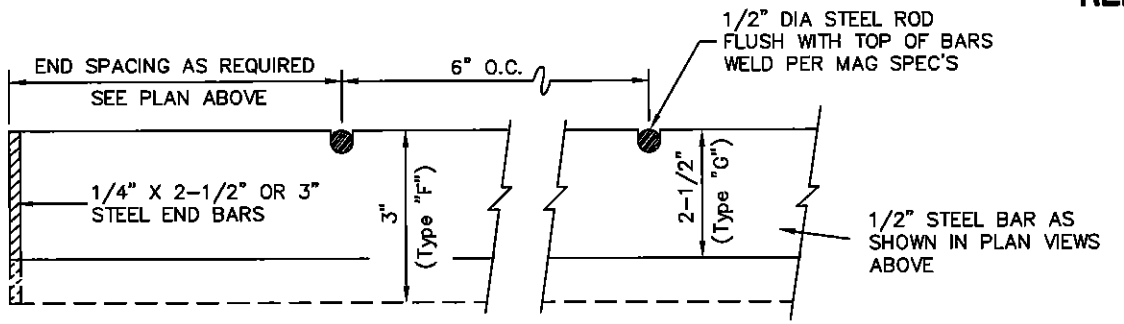
TYPE 2- PNEUMATICALLY PLACED MOTAR DETAIL

DETAIL NO. 2515-3	City of Scottsdale Standard Details	WALL OPENING EROSION PROTECTION	DETAIL NO. 2515-3





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



SECTION A-A

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

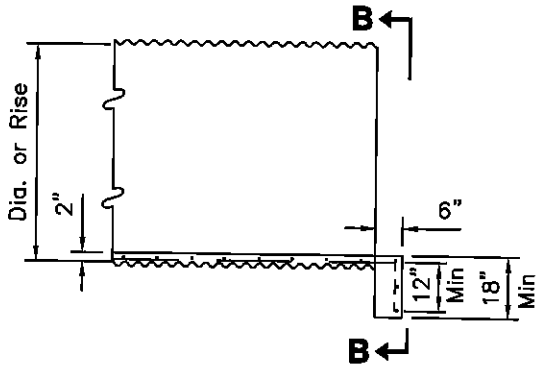
NOTES:

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

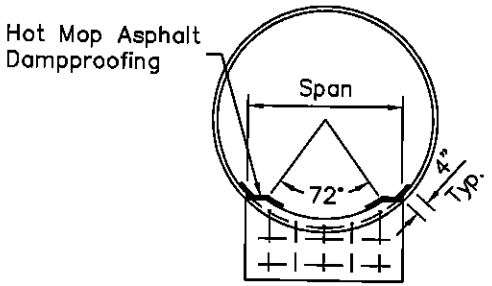
TYPE "G" GRATE DIMENSIONS		
	SINGLE GRATE	DOUBLE GRATE
Ⓐ	2'-2"	4'-3 1/2"
Ⓑ	2'-2"	2'-2"
Ⓒ	2-11/16"	2-5/16"
Ⓓ	0'-4"	0'-3 3/4"

DETAIL NO. 2535	City of Scottsdale Standard Details	APPROVED BY: _____	CATCH BASIN GRATES	DETAIL NO. 2535

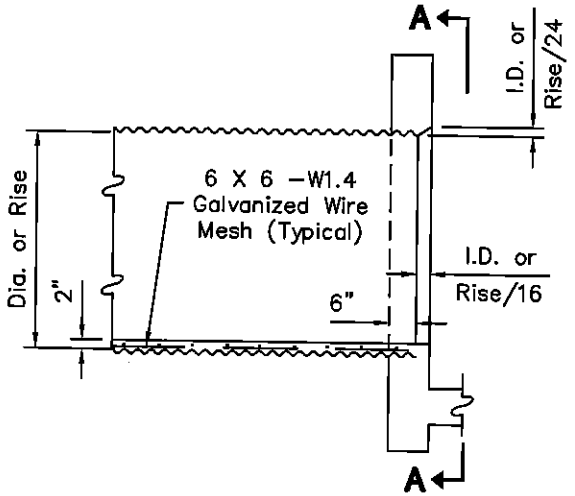
REVISED 6/19/95



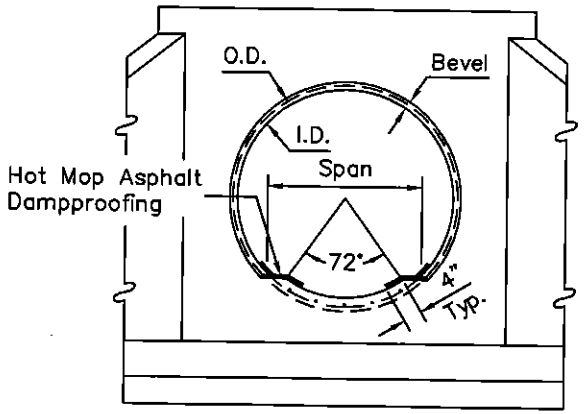
NO HEADWALL



ELEVATION B-B



WITH HEADWALL

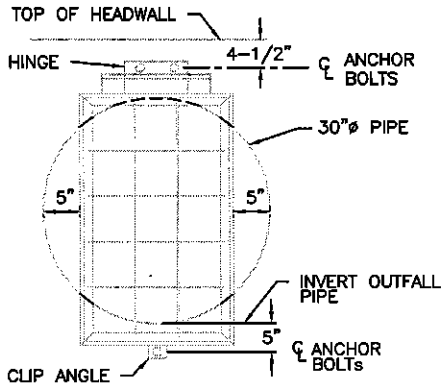


ELEVATION A-A

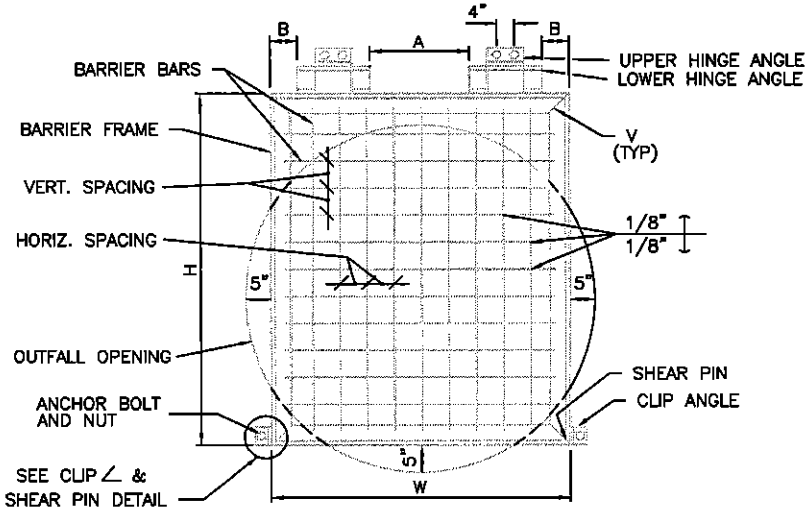
GENERAL NOTES

1. For lateral dimensions of invert paving, use 72° control for CMP and span for CMPA.
2. Paving shall be scored at 18" min. (transverse) along pipe length.
3. Use bevel on inlet headwall only.
4. Wire mesh shall be tack welded to corrugation crests at 18" intervals. Laps shall be 6" min.
5. Paving shall not be placed until backfilling is completed.
6. Concrete shall be Class "B".

DETAIL NO. 2554	City of Scottsdale Standard Details	APPROVED BY:	CONCRETE INVERT PAVING FOR CORRUGATED METAL PIPE AND PIPE ARCH	DETAIL NO. 2554



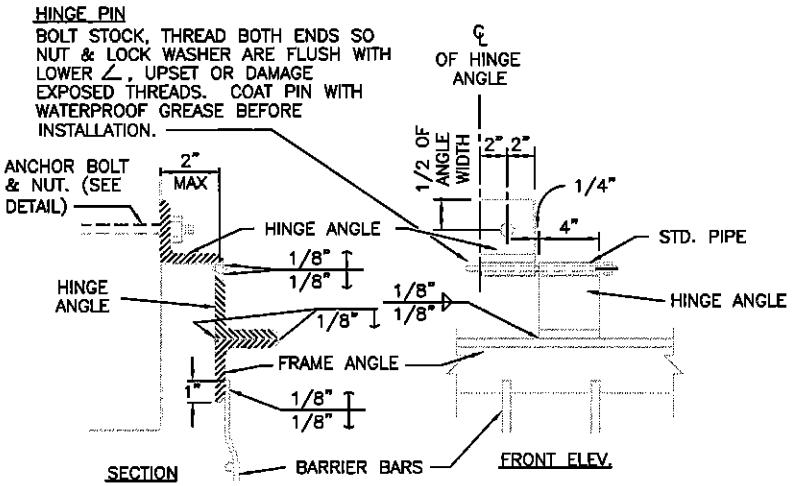
30"ø & 36"ø PIPES ONLY, SINGLE HINGE & CLIP ANGLE DETAIL



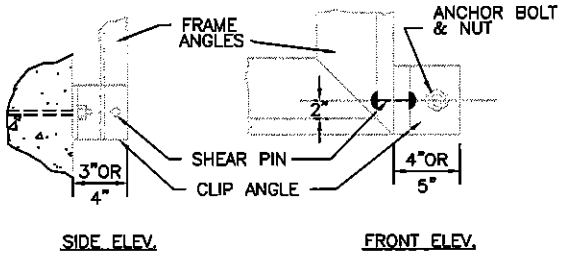
TYPICAL BARRIER DETAIL

NOTES:

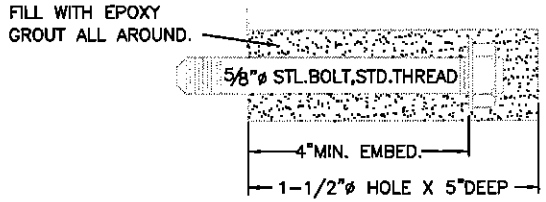
1. ALL SHEAR PIN ANGLES SHALL FIT SNUGLY AND TRULY FACE TO FACE. COVER WITH WATERPROOF GREASE PRIOR TO INSTALLATION OF PIN.
2. GALVANIZE ALL FERROUS PARTS AFTER FABRICATION.
3. THE SHEAR PIN HOLES IN THE ANGLE SHALL BE DRILLED FOR A TIGHT FIT OF THE SHEAR PINS.
4. FRAME AND HINGE ANGLES SHALL HAVE THE OUTSTANDING LEGS OUT FOR OUTLETS.
5. ALL ANCHOR BOLTS SHALL BE 5/8"ø ANCHOR BOLTS EMBEDDED 4"(MIN.) INTO EPOXY GROUT.
6. ALL SHEAR PINS ARE TO BE PEENED BOTH ENDS AFTER INSTALLATION.
7. SHEAR PIN MATERIAL SHALL BE COMMERCIALLY PURE ALUMINUM WIRE.
8. SEE BARRIER SHEDULE, DET. 2562-2 FOR VARIABLE DIMENSIONS.
9. COVER ALL MOVABLE CONTACT SURFACE WITH A COAT OF WATERPROOF GREASE PRIOR TO INSTALLATION.
10. ALL BARRIER BARS TO BE 1/2" PLAIN.



HINGE INSTALLATION DETAIL



CLIP ANGLE & SHEAR PIN DETAIL



ANCHOR BOLT DETAIL

DETAIL NO. 2562-1	City of Scottsdale Standard Details	APPROVED BY:	STORM SEWER OUTFALL ACCESS BARRIER	DETAIL NO. 2562-1

SIZE OF OUTFALL CONDUIT	FRAME ANGLES	SHEAR PIN CLIP ANGLES	SHEAR PINS	HINGE PINS	HINGE ANGLES	HINGE STD. PIPE	✳ NO. OF EQUAL BARRIER BAR SPACES (HORIZ.)	NO. OF EQUAL BARRIER BAR SPACES (VERT.)	H (OUT TO OUT FRAME ANGLES)	✳ W (OUT TO OUT FRAME ANGLES)	A	B
30"	2X2X1/4	4X4X1/4	1-1/8ø	1/2"ø	2X2X1/4	3/4"	3	5	34"	20"	SINGLE HINGE CENTERED	
36"	2X2X1/4	4X4X1/4	1-1/8ø	3/4"ø	2-1/2X 2-1/2X1/4	1"	4	6	40"	26"	SINGLE HINGE CENTERED	
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"
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"
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"
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"
72"	4X4X5/8	5X3X1/4	2-3/16ø	1"ø	3X3X3/8	1-1/4"	9	11	73"	62"	15"	7"
78"	4X4X5/8	5X3X1/4	2-3/16ø	1"ø	3X3X3/8	1-1/4"	10	11	79"	68"	17"	9"
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"
96"	4X4X5/8	5X3X1/4	2-3/16ø	1"ø	3X3X3/8	1-1/4"	12	14	98"	86"	29"	12"

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

DETAIL NO. **2562-2**

City of Scottsdale Standard Details

APPROVED BY: _____

BARRIER SPECIFICATIONS SCHEDULE

DETAIL NO. **2562-2**

REVISED: 5/20/02

MINIMUM TREE SIZE REQUIREMENTS

Name	Size	Height	Width	Caliper
ACACIA				
BLUE LEAF WATTLE	15	6	2	0.75
(ACACIA SALIGNA)	24	8	4	1.5
	30	10	5	2
	36	12	6	2.5
BERLANDER\ GUAJILLO	15	4	2	0.5
(M) (ACACIA BERLANDIERI)	24	5	4	1
	30	7	5	1.5
	36	9	6	2
MULGA	15	5	2	0.75
(ACACIA ANEURA)	24	7	4	1.5
	30	9	6	2
	36	10	8	2.5
SHOESTRING	15	7	2.5	0.75
(ACACIA STENOPHYLLA)	24	9	4	1.5
	30	11	5	2
	36	13	6	2.5
	42	15	7	3
	48	17	8	4
SHOESTRING (M)	15	7	2.5	0.5
(ACACIA STENOPHYLLA)	24	9	4	1
	36	13	6	2
SWEET	15	6	2.5	0.75
(ACACIA SMALLII)	24	8	4	1.5
	30	9	6	2
	36	10	8	2.5
	42	12	10	3
	48	14	12	3.5
SWEET (M)	15	5	3	0.5
(ACACIA SMALLII)	24	8	5	1
	30	9	7	1.5
	36	10	9	2
	42	12	10	2.5
	48	14	12	3

Name	Size	Height	Width	Caliper
ACACIA (Cont.)				
WEEPING	15	5	2	0.75
(ACACIA PENDULA)	24	6.5	3	1.25
	30	9	5	2
	36	11	6	2.5
WILLOW \	15	6	2	0.75
AUSTRALIAN WILLOW	24	8	4	1.5
(ACACIA SALICINA)	30	10	5	2
	36	14	6	2.5
IRONWOOD				
DESERT IRONWOOD	15	3	2	0.5
(OLNEYA TESOTA)	24	6	3	1.25
	30	8	6	2
	36	10	8	2.5
	42	11	9	3
	48	12	10	3.5
DESERT IRONWOOD (M)	15	3	2	0.5
(OLNEYA TESOTA)	24	6	3	1.25
	30	8	6	2
	36	10	8	2.5
	42	12	10	3
	48	14	12	3.5
MESQUITE				
ARGENTINE MESQUITE	15	6.5	2	0.75
(PROSOPIS ALBA)	24	8	4	1.5
	30	9	6	2
	36	11	8	2.5
	42	13	10	3
	48	15	12	3.5
See General Notes				
Page 3				

Name	Size	Height	Width	Caliper
ARGENTINE MESQUITE	15	5	3	0.75
(M) (PROSOPIS ALBA)	24	8	5	1.25
	30	9	7	1.5
	36	11	9	2
	42	13	11	2.5
	48	15	13	3
MESQUITE (Cont.)				
CHILEAN MESQUITE	15	6	2	0.75
(PROSOPIS CHILENSIS)	24	8	4	1.5
	30	9	6	2
	36	10	8	2.5
	42	12	10	3
	48	14	12	3.5
CHILEAN MESQUITE (M)	15	5	3	0.5
(PROSOPIS CHILENSIS)	24	8	5	1
	30	9	7	1.5
	36	10	9	2
	42	12	11	2.5
	48	14	13	3
HONEY MESQUITE (M)	15	6	2	0.75
(PROSOPIS -	24	8	4	1.5
GLANDULOSA)	30	9	6	2
	36	10	8	2.5
	42	12	10	3
	48	14	12	3.5
SCREW BEAN (M)	15	5.5	3	0.5
(PROSOPIS -	24	8	4	1
PUBESCENS)	30	9	6	1.5
	36	10	8	2
	42	12	10	3
	48	14	12	3.5

Name	Size	Height	Width	Caliper
VELVET\ ARIZONA (M)	15	5.5	3	0.5
(PROSOPIS VELUNTINA)	24	7	4	1
	30	9	6	1.5
	36	10	8	2
	42	12	10	2.5
	48	14	12	3
PALOVERDE				
BLUE PALO VERDE	15	6	2	0.75
(CERCIDIUM FLORIDUM)	24	7.5	4	1.5
	30	9	7	2
	36	10	8	2.5
	42	12	9	3
	48	14	10	3.5
BLUE PALO VERDE (M)	15	5	3	0.5
(CERCIDIUM FLORIDUM)	24	7	4	1
	30	8	6	1.5
	36	10	8	2
	42	12	9	2.5
	48	14	11	3
LITTLE LEAF\ FOOTHILLS	15	4	2	0.5
(CERCIDIUM -	24	6	3	1
MICROPHYLLUM)	30	7	5	1.5
	36	8	6	2
LITTLE LEAF\ FOOTHILLS	15	4	3	0.5
(M) (CERCIDIUM -	24	5	4	1
MICROPHYLLUM M)	30	6	5	1.5
	36	8	7	2

Name	Size	Height	Width	Caliper
SONORAN	15	6	2	0.75
(CERCIDIUM PRAECOX)	24	7	4	1.5
	30	8	6	2
	36	10	8	2.5
	42	11	10	3
	48	12	12	3.5
SONORAN (M)	15	5	2	0.5
(CERCIDIUM PRAECOX)	24	7	4	1
	30	8	6	1.5
	36	10	8	2
	42	11	10	2.5
	48	12	12	3
OTHER TREES				
AFRICAN SUMAC	15	7	2	0.75
(RHUS LANCEA)	24	9	4	1.25
	30	11	6	2
	36	12	8	2.5
	42	14	8	3.5
	48	15	9	4
AFRICAN SUMAC (M)	15	5	3	0.75
(RHUS LANCEA)	24	8	4.5	1
	30	9	7	1.5
	36	11	8	2
	42	13	9	2.5
	48	16	10	3
ALEPPO	15	6	3	0.75
(PINUS HALEPENSIS)	24	9	4	2
	30	11	6	3
	36	14	7	3.5
	42	16	9	4
	48	18	10	4.5
Page 1 of 3				

DETAIL NO.		APPROVED BY:		DETAIL NO.
2600-1	**City of Scottsdale Standard Details**	_____	**MINIMUM TREE SIZE REQUIREMENTS**	**2600-1**

MINIMUM TREE SIZE REQUIREMENTS

Name	Size	Height	Width	Caliper
ARIZONA ASH (FRAXINUS VELUTINA)	15	8	2	1
	24	10	4	1.5
	30	12	5	2
	36	14	8	2.5
	42	15	9	3
	48	16	10	3.5
ARIZONA SYCAMORE (PLATANUS WRIGHTII)	15	7	2	1
	24	9	4	1.5
	30	13	6	2.5
	36	16	8	3.5
ARIZONA SYCAMORE(M) (PLATANUS WRIGHTII)	15	6	3	0.5
	24	8	4	1
	30	12	7	2
	36	15	9	3
AUSTRALIAN WILLOW\ WILGA (GEIJERA PARVIFLORA)	15	5	3	0.75
	24	8	4	1.25
	30	10	5	2
	36	12	5.5	2.5
BOTTLE TREE (BRACHYCHITON - POPULNEUS)	15	6	2	1.5
	24	9	4	2.5
	30	12	5	4
	36	15	6	5
	42	17	8	6
	48	20	9	6.5
BRAZILIAN PEPPER (SCHINUS - TEREBINTHIFOLLA)	15	8	2	0.75
	24	9	4	1.25
	30	10	5	2.5
	36	12	8	3
CALIFORNIA PEPPER (SCHINUS MOLLE)	15	7	2	0.75
	24	8	4	1.25
	30	10	6	2.5
	36	12	8	3

Name	Size	Height	Width	Caliper
Canary Island Pine (Pinus Canariensis)	15	6	2	0.75
	24	9	4	2
	30	13	5	3.5
	36	17	5	4
	42	18	6	4.5
	48	22	7	5.5
CAROB (CERATONIA SILQUA)	15	8	2	0.75
	24	9	4	1.5
	30	10	5	2
	36	12	5	3
CHASTE TREE (VITEX ANGUS-CASTUS)	15	5	3	0.75
	24	6	4	1.25
	30	7	5	2
	36	8	6	2.5
CHINESE EVERGREEN ELM (ULMUS PARVIFOLIA)	15	7	2	0.75
	24	8	3	1.25
	30	12	6	2
	36	14	8	2.5
	42	16	9	3.5
	48	18	10	3.75
CHINESE PISTACHE (PISTACIA CHINENSIS)	15	7	2	0.75
	24	9	4	1.5
	30	10	5	2.5
	36	12	6	3.5
CHIR PINE\ INDIAN LONG LEAF (PINUS ROXBURGHII)	15	5	3	1
	24	8	4	2
	30	11	6	2.5
	36	15	6.5	3.5
	42	17	8	4.5
	48	20	9	5

See General Notes Page 3

Name	Size	Height	Width	Caliper
COOLIBAH (EUCALYPTUS - MICROTHECA)	15	7	3	0.75
	24	10	4	1.5
	30	12	5	2
	36	15	6	2.5
CORK OAK (QUERCUS SUBER)	15	4	2	0.75
	24	6.5	3	1.5
	30	9	4.5	2.5
	36	12	6	3.5
	42	14	9	4
	48	16	11	4.5
CORRAL GUM (EUCALYPTUS TORQUATA)	15	6	2.5	0.75
	24	8	3.5	1.25
DESERT WILLOW (CHILOPSIS LINEARIS)	15	6	2	0.75
	24	7	4	1.25
	30	9	6	1.75
	36	10	8	2.25
DESERT WILLOW (M) (CHILOPSIS LINEARIS)	15	5	3	0.75
	24	7	5	1
	30	9	6	1.5
	36	10	8	2
ELDARICA (PINUS ELDARICA)	15	6	2	1.5
	24	10	4	2
	30	13	4	3
	36	15	5	4
	42	18	7	4.5
	48	20	9	5.5
EVERGREEN PEAR (PYRUS KAWAKAMI)	15	7	2	0.75
	24	9	4	1.5
	30	10	6	2.5
	36	12	8	3.5
	42	14	10	4
	48	16	12	4.5

Name	Size	Height	Width	Caliper
FEATHER BUSH\ FERN OF THE DESERT (LYSILOMA THORNBERI)	15	5	3	0.75
	24	6.5	4	1.25
	30	7	6.5	2
	36	8	6	2.5
FEATHER BUSH\ FERN OF THE DESERT(M) (LYSILOMA THORNBERI)	15	4	3	0.75
	24	5	5	1
	30	7	7	1.5
	36	8	8	2
FICUS (FICUS NITIDA)	15	8	2	0.75
	24	9	4	1.5
	30	10	5	2
	36	12	6	3
FICUS (FICUS NITIDA M)	15	5.5	3	0.5
	24	8	4	1
	30	10	6	2
	36	12	8	2.5
FLOODED GUM (EUCALYPTUS RUDIS)	15	8	3	1
	24	10	4	1.5
FLOWERING CHERRY (PRUNUS VARIETIES)	15	6	2.5	0.75
	24	9	4	1.25
	30	11	8	2
	36	13	10	2.5
	42	15	11	3
	48	17	12	3.5
HONEY LOCUST (GLEDITSIA TRIACANTHOS INERMIS)	15	8	2	0.75
	24	9	4	1.5
	30	10	6	2
	36	12	8	2.5
	42	14	10	3
	48	16	12	3.5

Name	Size	Height	Width	Caliper
JACARANDA (JACARANDA ACUTIFOLIA)	15	8	2	0.75
	24	9	4	1.5
	30	12	5	2.5
	36	14	8	3
	42	16	8	3.5
	48	18	9	4
JACARANDA (M) (JACARANDA- ACUTIFOLIA)	15	5.5	3	0.5
	24	8	5	0.75
	30	10	6	1.5
	36	12	7	2
LEMON BOTTLE BRUSH (CALLISTEMON CITRINUS)	15	8	2	0.75
	24	9	4	1.25
	30	10	5	2
	36	12	6	2.75
MEDITERANEAN FAN PALM (CHAMAEROPS HUMULIS)	15	2	2	N\A
	24	3	3	N\A
	30	4	4	N\A
	36	5	5	N\A
MESCAL BEAN\ TEXAS MOUNTAIN LAUREL (SOPHORA - SECUNDIFLORA)	15	3	1	0.75
	24	4	2	1
	30	5	3	1.75
	36	6	4	2
MESCAL BEAN\ TEXAS MOUNTAIN LAUREL (M) (SOPHORA - SECUNDIFLORA)	15	3	2	0.75
	24	4	3	1
	30	5	4	1.5
	36	6	5	2
MEXICAN PALO VERDE\ JERUSALEM (PARKINSONIA ACULEATA)	15	7	3	1
	24	9	6	1.5
	30	11	9	2.5
	36	12	10	3

DETAIL NO. **2600-2**

City of Scottsdale
Standard Details

APPROVED BY: _____

MINIMUM TREE SIZE REQUIREMENTS

DETAIL NO. **2600-2**

MINIMUM TREE SIZE REQUIREMENTS

Name	Size	Height	Width	Caliper
MODESTO ASH	15	8	2	1
(FRAXINUS V MODESTO)	24	10	4	1.5
	30	12	6	2
	36	14	7	2.5
	42	16	8	3
	48	17	10	3.5
NARROW LEAF GIMLET	15	6	2.5	0.75
SWAMP MALLET	24	8	3	1
(EUCALYPTUS -				
SPATHULATA)				
OLEANDER	15	7	2	0.75
(NERIUM OLEANDER)	24	9	4	1.25
	30	10	5	2
	36	12	6	2.5
OLIVE TREE	15	5	3	0.5
(OLEA EUROPAEA)	24	8	5.5	1.5
	30	11	9	2
	36	12	10	3
	42	14	12	3.5
	48	16	14	4
ORCHID TREE	15	8	2	0.75
(BAUHINIA)	24	9	4	1.25
	30	11	6	2
	36	13	7	2.5
ORNAMENTAL PEAR	15	7	2	1
(PYRUS CALLERYANA)	24	10	3.5	1.5
	30	12	6	2.5
	36	14	8	3
	42	16	10	3.5
	48	18	12	4

Name	Size	Height	Width	Caliper
RAYWOOD ASH	15	8	4	1
CLARET ASH	24	10	3	1.5
(FRAXINUS O RAYWOODII)	30	12	5	2
	36	14	8	2.5
	42	16	10	3
	48	18	12	4
RED CAP GUM	15	6.5	2.4	0.75
(EUCALYPTUS-	24	8	4	1.25
ERYTHROCORYES)				
RED GUM	15	8	3	1
(EUCALYPTUS-	24	10	4	1.75
CAMALDULENSIS)				
RED IRON BARK	15	8	3	0.75
(EUCALYPTUS -	24	10	4	1.5
SIDEROXYLON)				
RIO GRANDE\ FAN	15	7	2	0.75
TEXAS ASH	24	9	4	1.25
(FRAXINUS V FANTEX)	30	12	5	2
	36	14	8	2.5
	42	15	9	3.5
	48	16	10	4
SHAMEL\ EVERGREEN	15	8	2	1
(FRAXINUS UHDEI)	24	10	4	1.5
	30	12	5	2.5
	36	14	8	3
	42	15	9	3.5
	48	16	10	4
SILK OAK	15	8	3	1
(GREVILLEA ROBUSTA)	24	10	4	2
	30	12	6	2.5
	36	14	7	3

Name	Size	Height	Width	Caliper
SILK TREE MIMOSA (M)	15	5	3.5	0.5
(ALBIZIA JULIBRISSIA)	24	6.5	5	0.75
	30	6	6	1
	36	10	8	2.5
SILVER DOLLAR GUM	15	7	3	0.75
(EUCALYPTUS-	24	10	4	1.5
POLYANTHEMOS)				
SISSOO	15	7	3	0.75
(DALBERGIA SISSOO)	24	10	4	1.25
	30	12	7	2.5
	36	15	10	3
SOUTHERN LIVE OAK	15	6	2	0.75
HERITAGE	24	9	4	1.25
(QUERCUS VIRGINIANA)	30	11	6.5	2
	36	13	8	2.75
	42	15	10	3.5
	48	17	12	4.5
TEXAS EBONY	15	5	2	0.75
(PITHECELLOBIUM-	24	6	3	1.5
FLEXICAULE)	30	7	4	2
	36	9	6	2.5
	42	10	6	3
	48	11	7	3.5

Name	Size	Height	Width	Caliper
SILK TREE MIMOSA	15	6	3	0.75
(ALBISIA JULIBRISSIN)	24	8	4	1.5
	30	10	6	2
	36	12	8	3
TEXAS EBONY (M)	15	4	2	0.5
(PITHECELLUBIUM-	24	6	4	1
FLEXICAULE)	30	7	6	1.5
	36	9	8	2
	42	10	10	2.5
	48	11	11	3
WEEPING BOTTLE	15	8	2	0.75
BRUSH	24	10	3.5	1.5
(CALLISTEMON VIMINALIS)	30	12	5	2
	36	14	7	2.5
WEEPING WILLOW	15	8	2	1
(SALIX BABYLONICA)	24	10	4	1.5
	30	12	6	2.5
	36	14	8	4
WHITE IRON BARK	15	6.5	2.5	0.75
(EUCALYPTUS -	24	8	3.5	1.25
LEUCOXYLON)				
YELLOW OLEANDER	15	6	2	0.5
(THEVETIA PERUVIANA)	24	8	4	1.25
YELLOW OLEANDER(M)	15	4	3.5	0.5
(THEVETIA PERUVIANA)	24	6	5	0.75

GENERAL NOTES:

1. All trees shall be guaranteed for one year from the date of acceptance
2. "M" designates a multitrunk tree. A multitrunk tree is a tree with more than one main trunk.
3. Caliper is measured at 12" above the ground for trees with caliper greater than 4". For multitrunk trees, and trees with caliper of less that 4", the caliper is measured 6" above the ground.
4. Size is listed as the box size in inches except for those trees in 15 gallon containers.

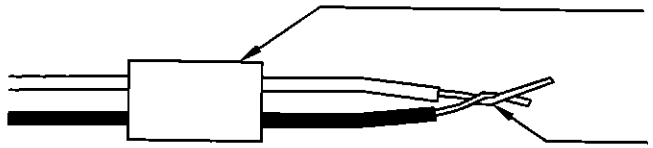
DETAIL NO. 2600-3

City of Scottsdale
Standard Details

APPROVED BY: _____

MINIMUM TREE SIZE REQUIREMENTS

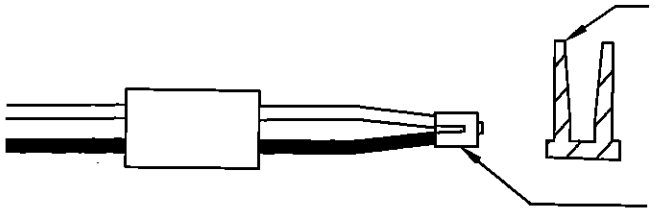
DETAIL NO. 2600-3



SLIP BASE SOCKET OVER END OF WIRES

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

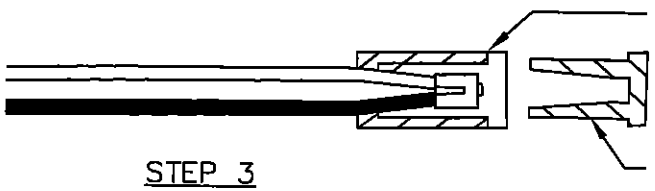
STEP 1



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

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

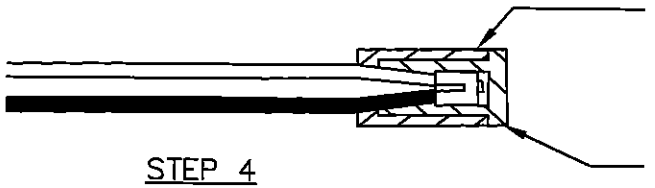
STEP 2



PULL BASE SOCKET OVER WIRE END AS FAR AS POSSIBLE

PUSH SEALING PLUG INTO BASE SOCKET

STEP 3



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

DRI–SPLICE TYPE WIRE CONNECTOR

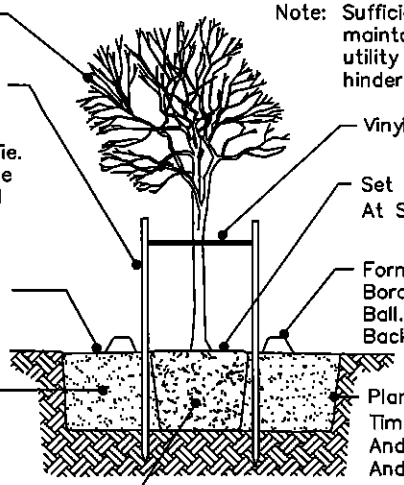
STEP 4

NOTE:

1. FOR WIRE SIZES NO. 14, 12 AND 10, ALL CONNECTIONS IN VALVE BOXES ONLY.

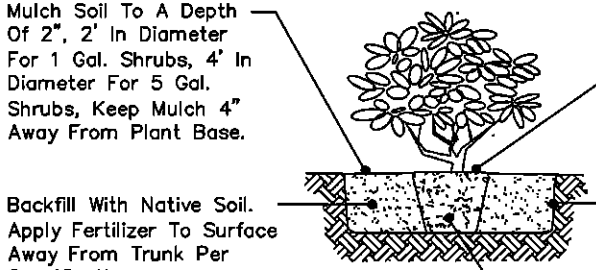
DETAIL NO. 2610	City of Scottsdale Standard Details	TYPICAL WIRE CONNECTION	DETAIL NO. 2610

REVISED 7/29/96

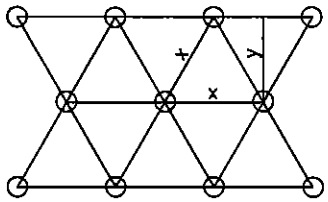


Tree Planting and Staking
≤36" Box Or 2" Caliper

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



Shrub Planting

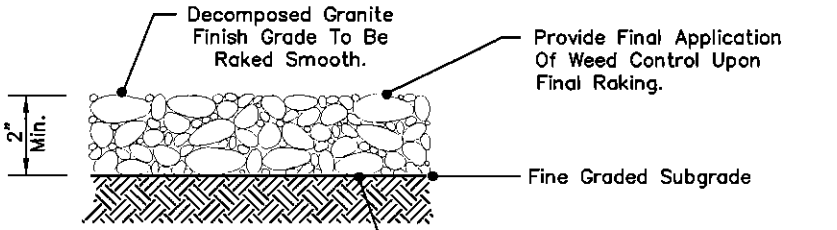


All Groundcovers To Be Planted On Center (See Plant Legend) In A Triangular Pattern.

X = O.C. Dimension As Noted On Plan

Y = 0.86 Of Dimension "X"

Groundcovers



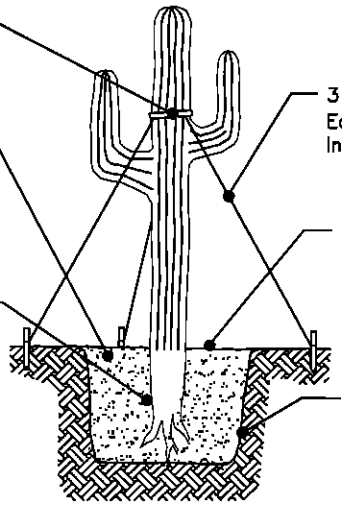
Decomposed Granite

DETAIL NO. 2620-1	City of Scottsdale Standard Details	APPROVED _____	LANDSCAPE DETAILS	DETAIL NO. 2620-1

Garden Hose Reinforced With Wire (Metal).

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 Strepto-miacin Spray At Planting Site. Root Ball Minimum Size Shall Be 24" With A Minimum Root Length Of 6" On All Sides.



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.

Saguaro Planting Type A

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.

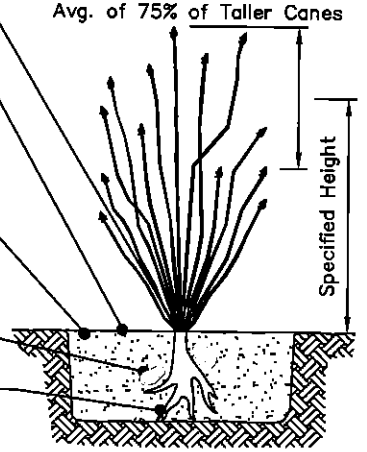
Plant At Depth Which Plant Was Grown.

Planting Mix To Be 1/3 Golf Sand And 2/3 Specified Soil. 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.

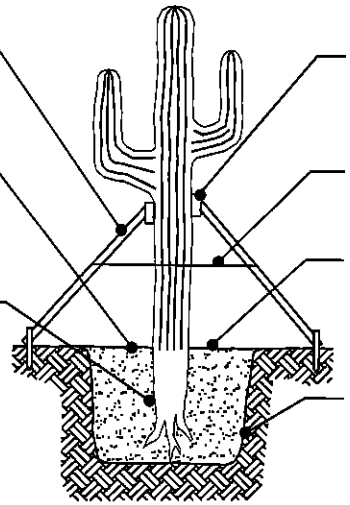


Ocotillo Planting

(3) 2"x 6" Braces, Spaced Equally And Nailed To Wooden Stakes In The Ground. Braces To Remain In Place For One Year Min.

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 Strepto-miacin 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 Padded, 8' Above Natural Grade And Nailed To Brace.

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.

Saguaro Planting Type B

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.

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

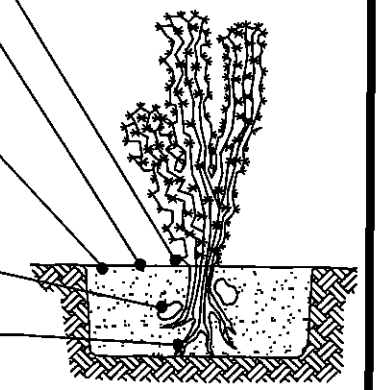
Plant At Depth Which Plant Was Grown.

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.



Cactus Planting

REVISED 1/5/00

DETAIL NO. 2620-2

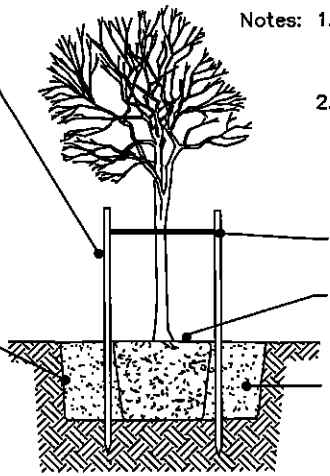
City of Scottsdale Standard Details

LANDSCAPE DETAILS

DETAIL NO. 2620-2

Staking Required For Trees In 36" Box Or Less Or With A Caliper Of Less Than 2". (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.

Backfill With Native Soil. (No Rocks Greater Than 3") Backfill 3/4 The depth Of Rootball Before Removing Box Side Panels. Compact Backfill As Needed To Prevent Breaking Rootball.



Vinyl Tie, 1" (Min.) In Width

Set Top Of Root Ball At Soil Surface.

Planting Hole Shall Be 2 Times Diameter Of Root Ball And No Deeper. Scarify Sides And Bottom Of Planting Hole

Notes:
1. Sufficient clearance shall be maintained between trees and utility facilities so as to not hinder use of these facilities.
2. Plant pit basins within sloped planting areas shall be constructed with a max. 2:1 slope. Provide smooth transition to surrounding finish grade.

Salvaged Tree Planting

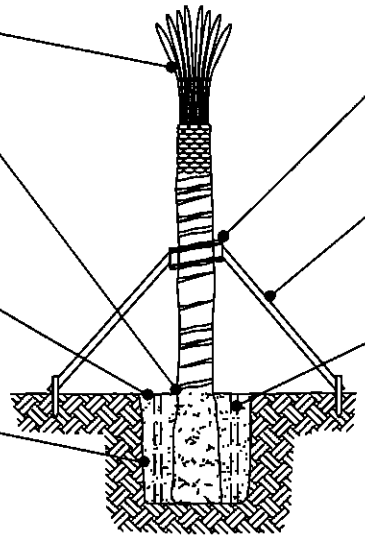
(LEFT BLANK)

Thin Top 6–8 Fronds, Tie With Natural Fiber Twine. (Remove Ties Prior To Buckling 60–90 Days).

Plant At Depth Which Plant Was Grown. Adjusting Root Ball Depth To Align Finished Height Will Not Be Allowed.

100% Golf Sand Backfill. Settle Backfill With Water, Do Not Pack Backfill.

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



2"x 4" Blocking Nailed To Brace. Tie To Trunk With 1" (Min,) Vinyl Tie.

(3) 2"x 6" Braces, Spaced Equally And Nailed To Wooden Stakes In The Ground.

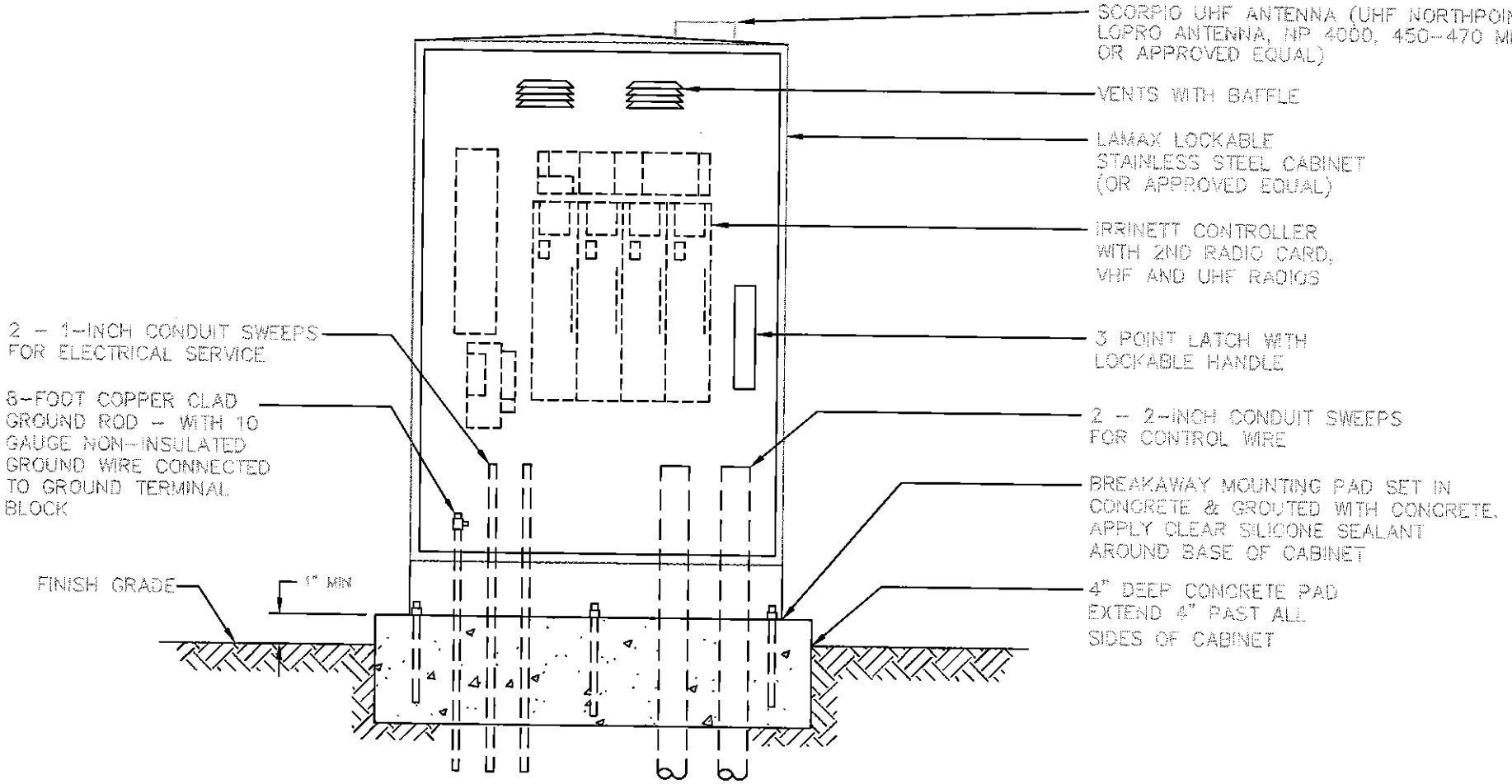
4" Perforated PVC, 2 Per Tree. Wrap PVC With Soil Screen Fabric.

Palm Planting and Bracing Detail

(LEFT BLANK)

REVISED 1/5/00

DETAIL NO. 2620-3	City of Scottsdale Standard Details	LANDSCAPE DETAILS	DETAIL NO. 2620-3



NOTES:

1. POWER SOURCE FOR CONTROLLER TO BE HARD WIRED FROM CIRCUIT BREAKER MOUNTED INSIDE CABINET TO CONTROLLER.
2. LOCATION OF POWER SOURCE TO BE NOTED ON CIRCUIT BREAKER PANEL.
3. PROGRAMMING KEYPAD TO BE SUPPLIED WITH CONTROLLER.
4. CONTROLLER TO BE LOCATED IN AREA WITH POSITIVE DRAINAGE.
5. INSTALL ONLY ONE CONTROL VALVE WIRE PER CONTROLLER OUTPUT.
6. VHF AND UHF RADIOS TO BE TUNED TO C.O.S. FREQUENCIES. CONTACT IRRIGATION DEPARTMENT FOR INFORMATION (480-312-2189)

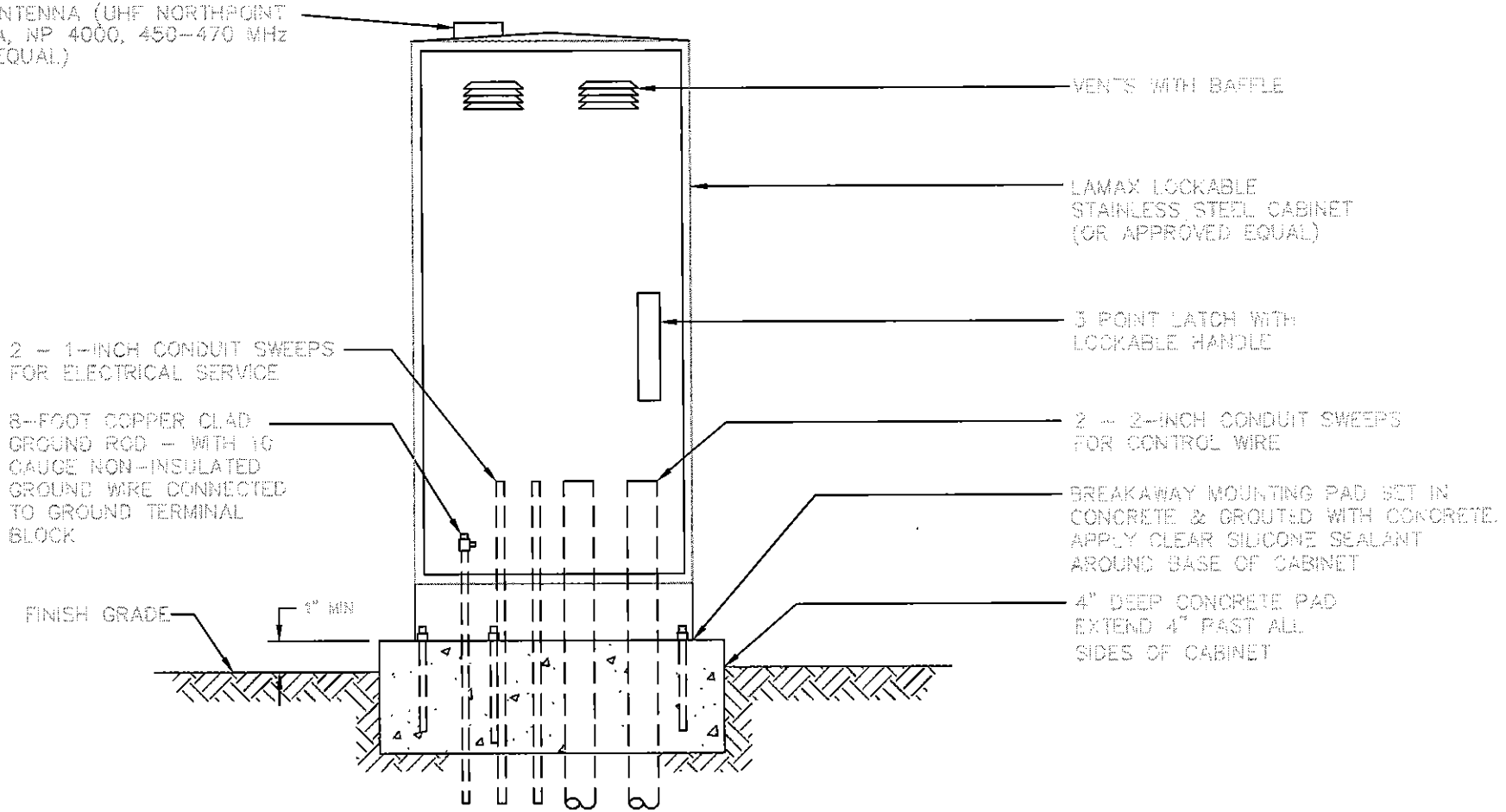
DETAIL NO. 2631

City of Scottsdale Standard Details

IRRINET PEDESTAL MOUNTED CONTROLLER

DETAIL NO. 2631

REVISED: 4/25/02



REVISED 4/25/02

NOTES:

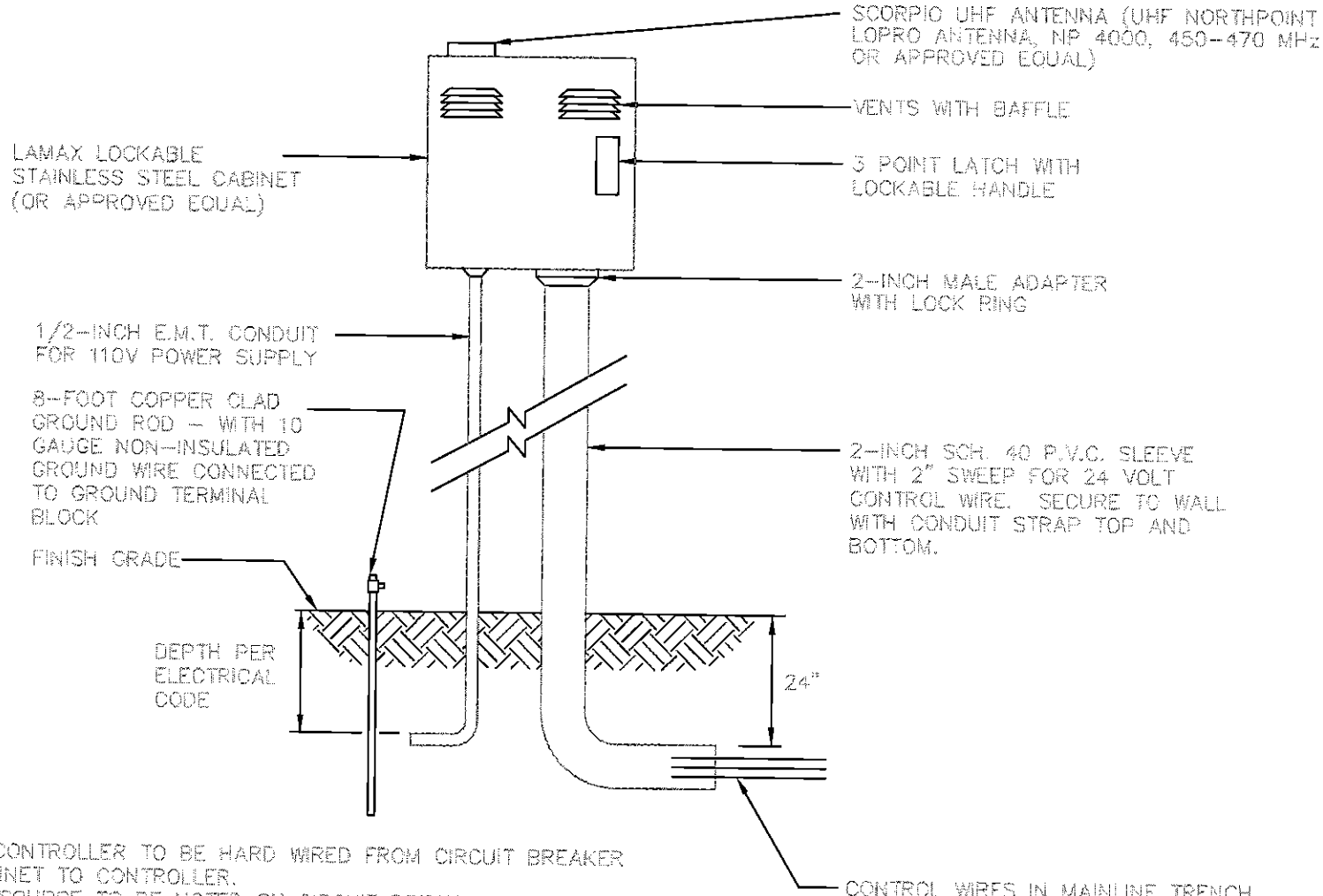
1. POWER SOURCE FOR CONTROLLER TO BE HARD WIRED FROM CIRCUIT BREAKER MOUNTED INSIDE CABINET TO CONTROLLER.
2. LOCATION OF POWER SOURCE TO BE NOTED ON CIRCUIT BREAKER PANEL.
3. REMOTE CONTROL VALVES FOR D.C. SCORPIO APPLICATIONS MUST HAVE D.C. LATCHING SOLENOIDS AND APPROVED SOLAR PANEL FOR POWER SOURCE.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

DETAIL NO. 2332

City of Scottsdale Standard Details

SCORPIO PEDESTAL MOUNTED CONTROLLER

DETAIL NO. 2332



NOTES:

1. POWER SOURCE FOR CONTROLLER TO BE HARD WIRED FROM CIRCUIT BREAKER MOUNTED INSIDE CABINET TO CONTROLLER.
2. LOCATION OF POWER SOURCE TO BE NOTED ON CIRCUIT BREAKER PANEL.
3. REMOTE CONTROL VALVES FOR D.C. SCORPIO APPLICATIONS MUST HAVE D.C. LATCHING SOLENOIDS AND APPROVED SOLAR PANEL FOR POWER SOURCE.
4. JSLM NARROW BAND RADIO #2846 G TO BE INSTALLED WITH SCORPIO CONTROLLER.
5. PROGRAMMING KEYPAD TO BE SUPPLIED WITH CONTROLLER.
6. INSTALL ONLY ONE CONTROL VALVE WIRE PER CONTROLLER OUTPUT.
7. UHF RADIO TO BE TUNED TO C.O.S. FREQUENCIES. CONTACT IRRIGATION DEPARTMENT FOR INFORMATION (480-312-2189)

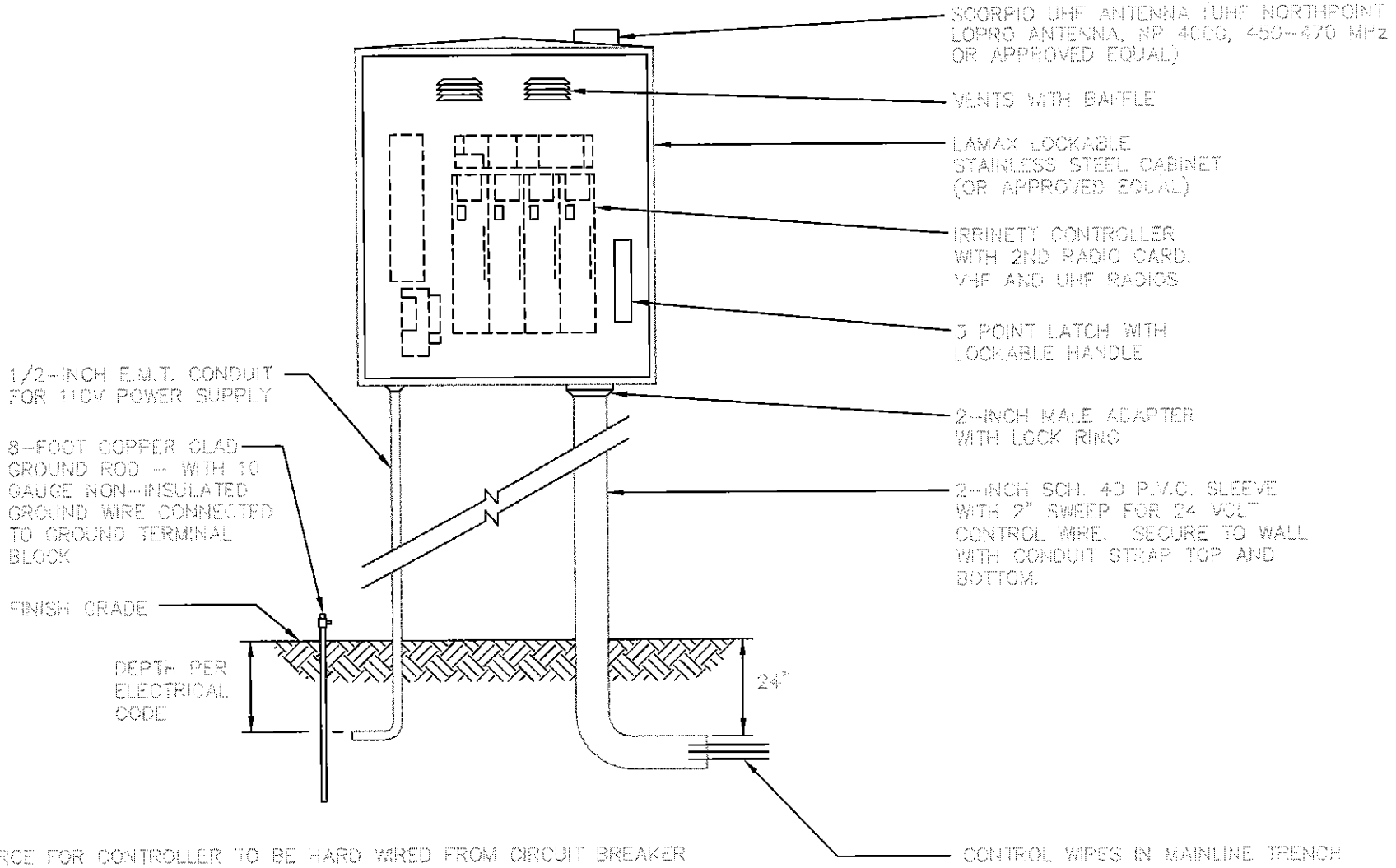
DETAIL NO. 2633

City of Scottsdale Standard Details

SCORPIO WALL MOUNTED CONTROLLER

DETAIL NO. 2633

REVISED: 7/15/03



REVISED: 4/25/02

NOTE:
1. POWER SOURCE FOR CONTROLLER TO BE HARD WIRED FROM CIRCUIT BREAKER MOUNTED INSIDE CABINET TO CONTROLLER.
2. LOCATION OF POWER SOURCE TO BE NOTED ON CIRCUIT BREAKER PANEL.
3. PROGRAMMING KEYPAD TO BE SUPPLIED WITH CONTROLLER.
4. INSTALL ONLY ONE CONTROL VALVE WIRE PER CONTROLLER OUTPUT.
5. VHF AND UHF RADIOS TO BE TUNED TO C.O.S. FREQUENCIES. CONTACT IRRIGATION DEPARTMENT FOR INFORMATION (480-312-2189)

DETAIL NO. 2634

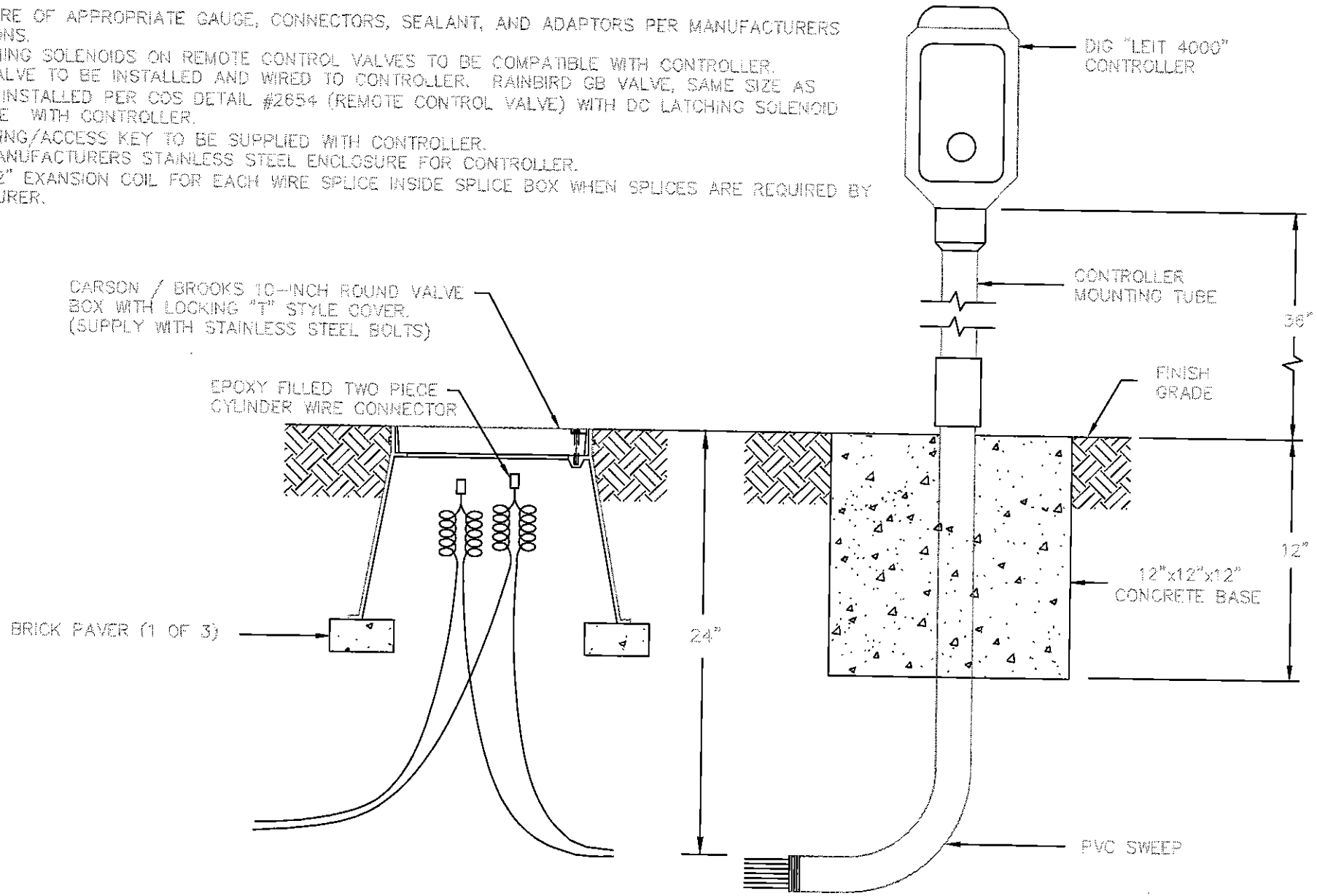
City of Scottsdale Standard Details

IRRINET WALL MOUNTED CONTROLLER

DETAIL NO. 2634

NOTES:

1. INSTALL WIRE OF APPROPRIATE GAUGE, CONNECTORS, SEALANT, AND ADAPTORS PER MANUFACTURERS INSTRUCTIONS.
2. D.C. LATCHING SOLENOIDS ON REMOTE CONTROL VALVES TO BE COMPATIBLE WITH CONTROLLER.
3. MASTER VALVE TO BE INSTALLED AND WIRED TO CONTROLLER. RAINBIRD GB VALVE, SAME SIZE AS MAINLINE INSTALLED PER COS DETAIL #2654 (REMOTE CONTROL VALVE) WITH DC LATCHING SOLENOID COMPATIBLE WITH CONTROLLER.
4. PROGRAMMING/ACCESS KEY TO BE SUPPLIED WITH CONTROLLER.
5. INSTALL MANUFACTURERS STAINLESS STEEL ENCLOSURE FOR CONTROLLER.
6. PROVIDE 12" EXANSION COIL FOR EACH WIRE SPLICE INSIDE SPLICE BOX WHEN SPLICES ARE REQUIRED BY MANUFACTURER.



REVISED: 4/26/02

DETAIL NO. 2635-1

City of Scottsdale Standard Details

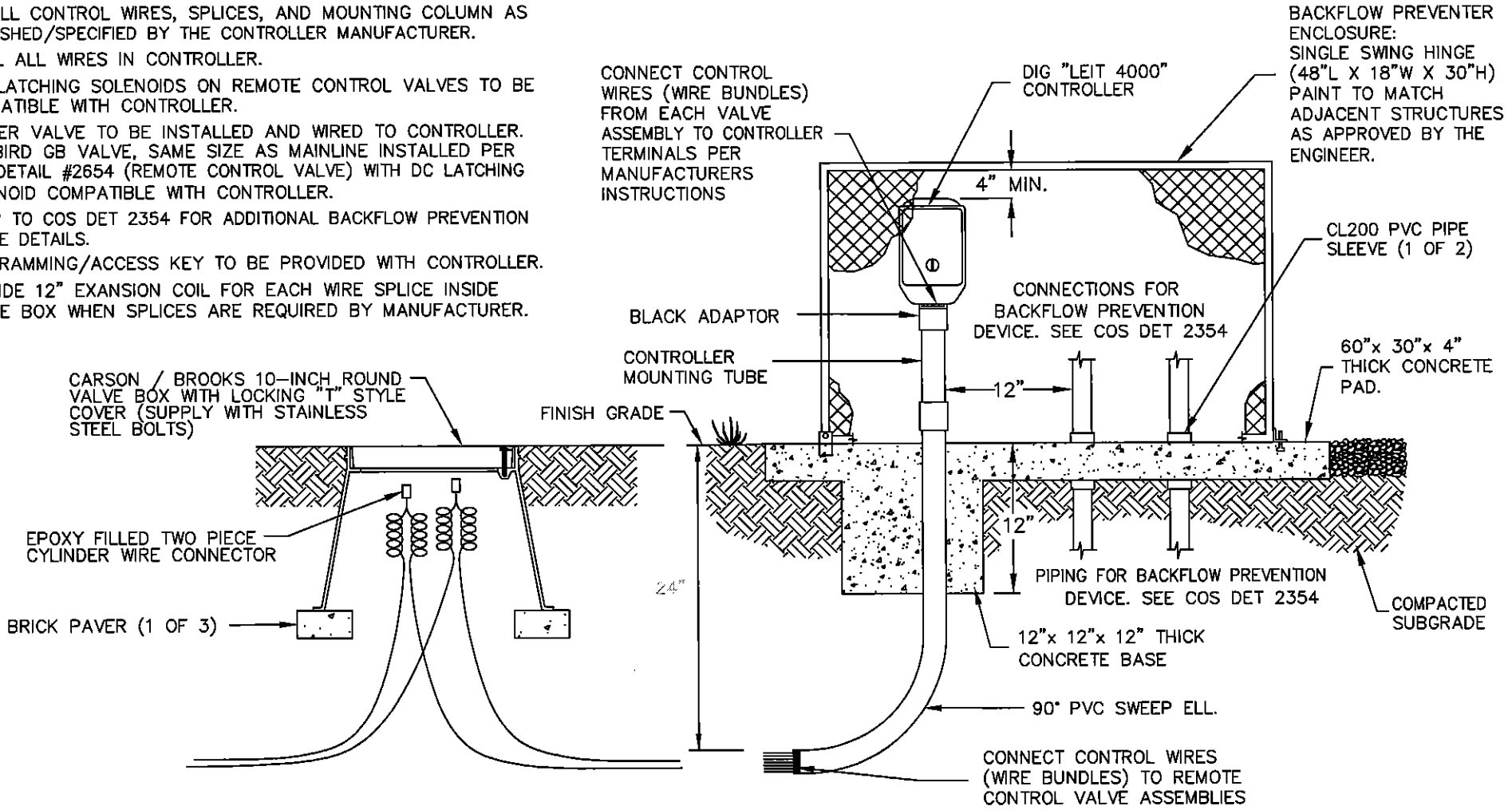
SOLAR CONTROLLER

DETAIL NO. 2635-1

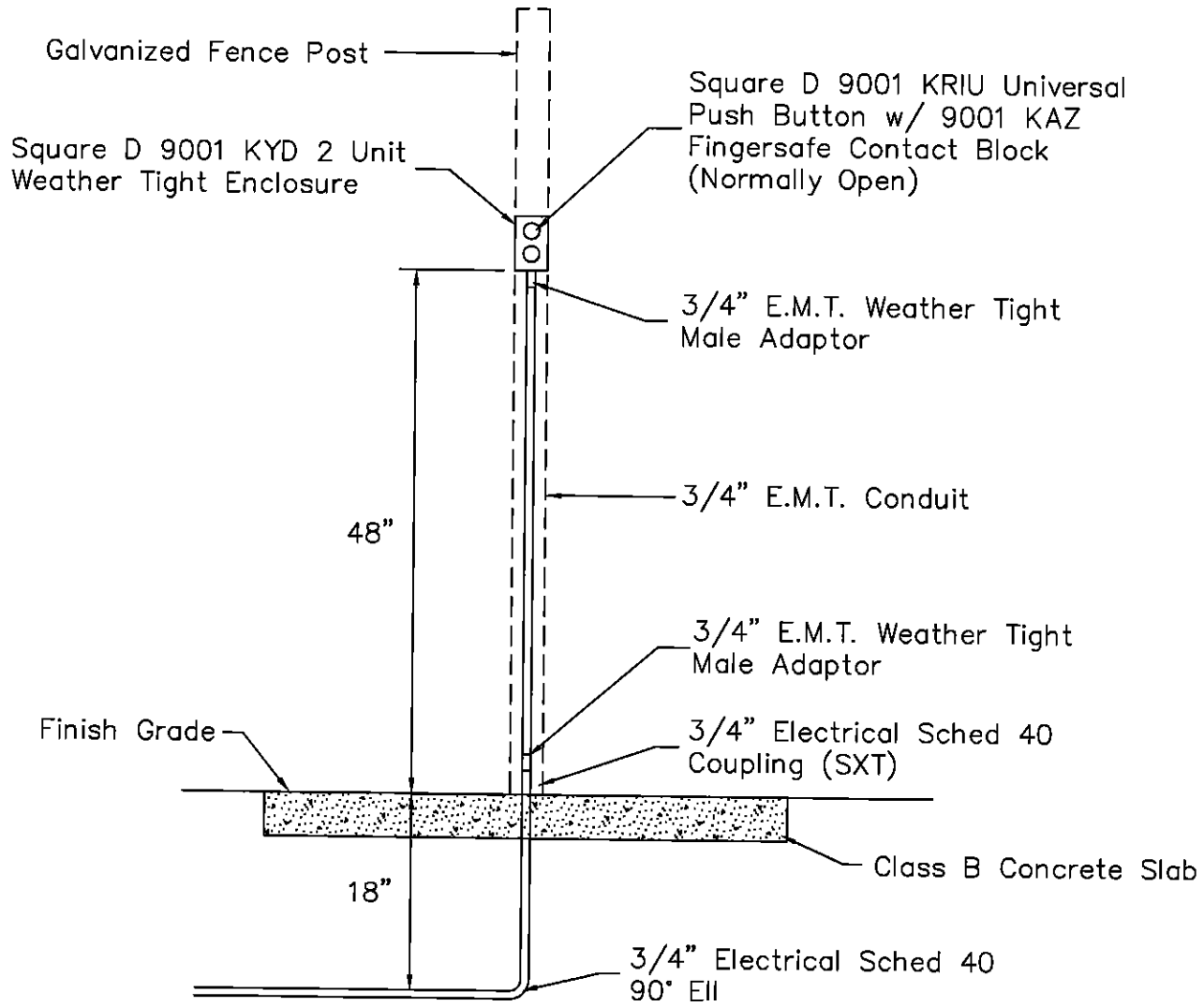
NOTES:

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

REVISED4/26/02



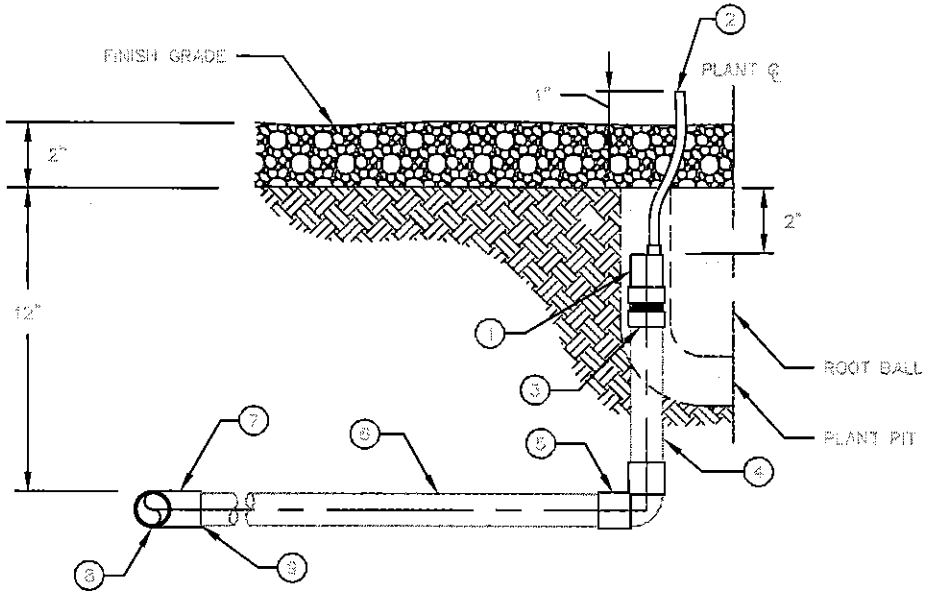
DETAIL NO.	City of Scottsdale Standard Details	SOLAR CONTROLLER AND BACKFLOW PREVENTER ENCLOSURE	DETAIL NO.
2635-2			2635-2



NOTES:

1. Install #14 ga. irrigation control wire.
2. Install one control wire per push button. Control wire to be different color from all other irrigation control wires.
3. Common wire (#12 ga) for push buttons shall be a separate common wire and not part of the irrigation control valve common wire.
4. Push button common wire to have color stripe matching push button control wire. The common wire may be shared by other push buttons.
5. Attach push button enclosure to galvanized post with two self–tapping hex head screws.
6. For other configurations/applications, contact Irrigation Dept 480–312–2189.
7. Label control wires inside enclosure and at controller to differentiate their functionality.

DETAIL NO. 2636	City of Scottsdale Standard Details	IRRIGATION PUSH BUTTON CONTROL	DETAIL NO. 2636



SINGLE OUTLET EMITTER
ALL SHRUBS & GROUND COVER

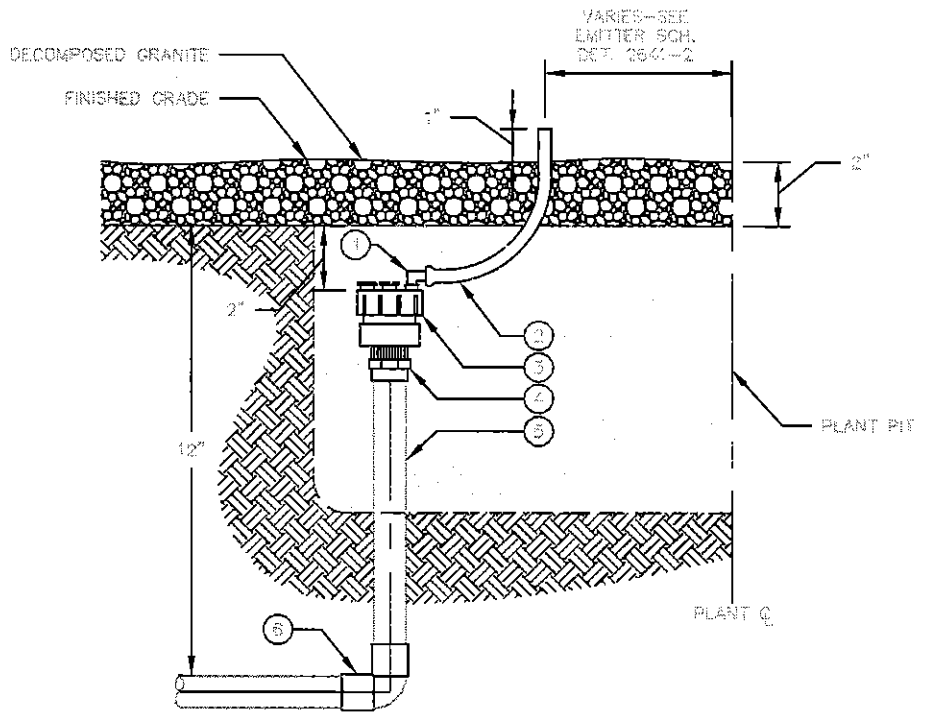
SCALE: NTS

LIST OF MATERIALS

1. BOWSMITH SL – SERIES SINGLE PORT EMITTER OR APPROVED EQUAL. LOCATE ON UPHILL SIDE OF PLANT CENTERLINE
2. 1/4" POLY FLEX HOSE EMITTER TUBING
3. 1/2" PVC SCH 40 MALE ADAPTOR
4. AG. PRODUCTS – 1/2" U.P.S. FLEXIBLE VINYL PVC PIPE OR APPROVED EQUAL
5. 1/2" PVC SCH 40 90° ELBOW
6. 1/2" PVC CL 315 PIPE
7. 1/2" PVC SCH 40 FITTING
8. PVC CL 315 FOR 1/2" LATERALS. PVC CL 200 FOR LATERALS GREATER THAN 1/2"
9. INSTALL BUSHING AS REQUIRED.

NOTES

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



MULTI-OUTLET EMITTER
TREES ONLY

SCALE: NTS

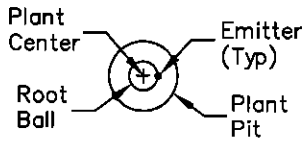
LIST OF MATERIALS

1. SWIVEL OUTLET 90° ELBOW
2. 1/4" POLY FLEX HOSE EMITTER TUBING
3. BOWSMITH ML 200 SERIES MULTI–PORT EMITTER OR APPROVED EQUAL. LOCATE ON UPHILL SIDE OF PLANT ℄
4. 1/2" PVC SCH 40 MALE ADAPTER
5. AG. PRODUCTS 1/2" U.P.S. FLEXIBLE VINYL PVC PIPE OR APPROVED EQUAL
6. 1/2" PVC SCH 40 FITTING

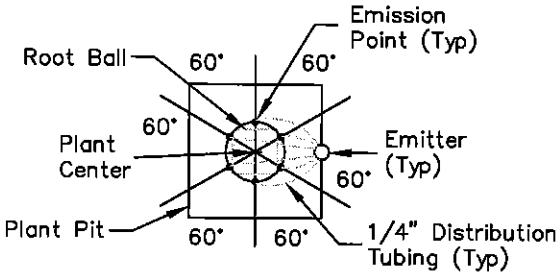
REVISED: 4/25/02

DETAIL NO. 2641-1	City of Scottsdale Standard Details	SINGLE & MULTI-OUTLET EMITTERS	DETAIL NO. 2641-1

REVISED 7/29/96

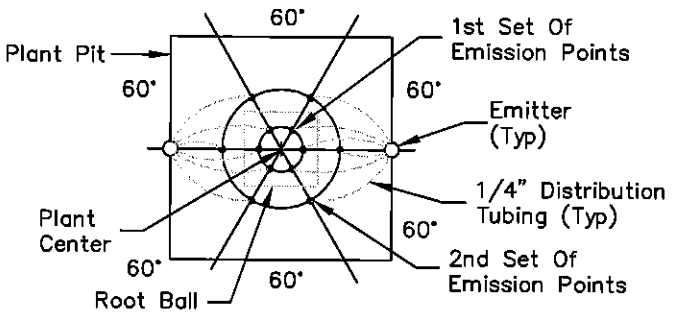


SHRUB EMITTER SINGLE OUTLET



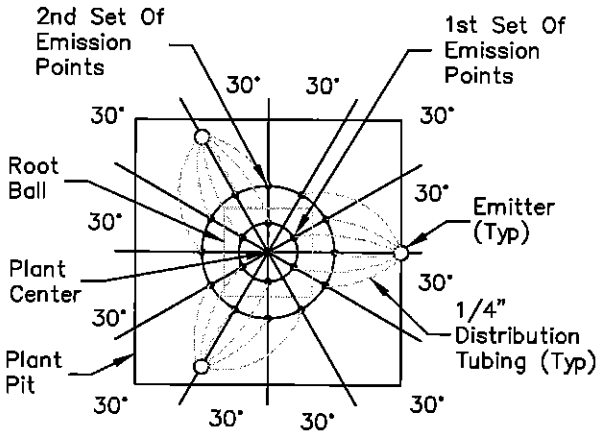
TREE EMITTER - MULTI OUTLET 15 GAL TO 42" BOX TREES

(SEE EMITTER SCHEDULE)



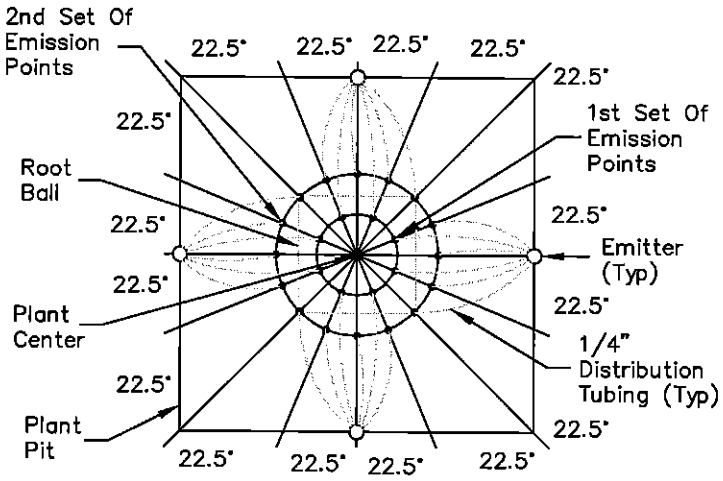
TREE EMITTER - MULTI OUTLET 48" BOX TO 60" BOX TREES

(SEE EMITTER SCHEDULE)



TREE EMITTER - MULTI OUTLET 66" BOX TO 84" BOX TREES

(SEE EMITTER SCHEDULE)

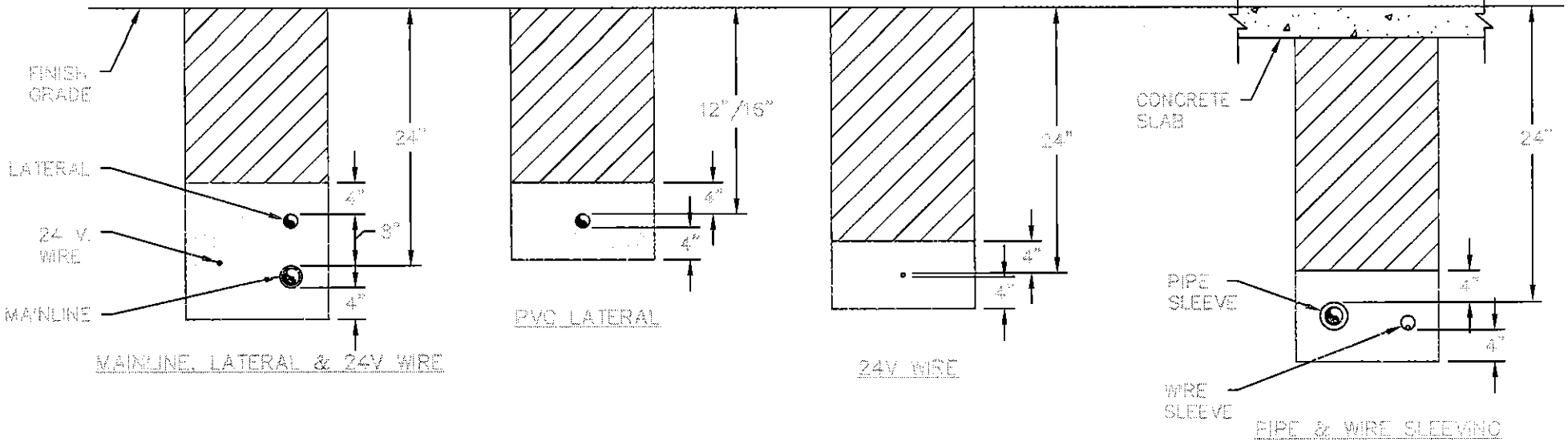


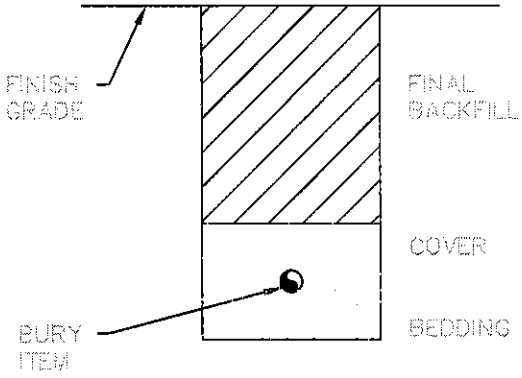
TREE EMITTER - MULTI OUTLET 96" BOX TREES

(SEE EMITTER SCHEDULE)

EMITTER SCHEDULE			
Tree Size	Number Of Multi Outlet Emitters – Outlet Quantity = Emitter GPH Total	Distance From Trunk	
		1st Set Of Emission Points	2nd Set Of Emission Points
15 Gal.	1–1 GPH=6 GPH	3 @ 12"	
24" Box	1–1 GPH=6 GPH	4 @ 18"	
30" Box	1–1 GPH=6 GPH	6 @ 21"	
36" Box	1–2 GPH=12 GPH	6 @ 24"	
42" Box	1–2 GPH=12 GPH	6 @ 27"	
48" Box	2–2 GPH=24 GPH	6 @ 12"	4 @ 42"
54" Box	2–2 GPH=24 GPH	6 @ 15"	5 @ 45"
60" Box	2–2 GPH=24 GPH	6 @ 18"	6 @ 48"
66" Box 72" Box	3–2 GPH=36 GPH	6 @ 24"	12 @ 54"
78" Box 84" Box	3–2 GPH=36 GPH	6 @ 30"	12 @ 60"
≥ 90" Box	4–2 GPH=48 GPH	8 @ 33"	16 @ 66"

DETAIL NO. 2641-2	City of Scottsdale Standard Details	APPROVED BY: _____	IRRIGATION EMITTER LAYOUT	DETAIL NO. 2641-2





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

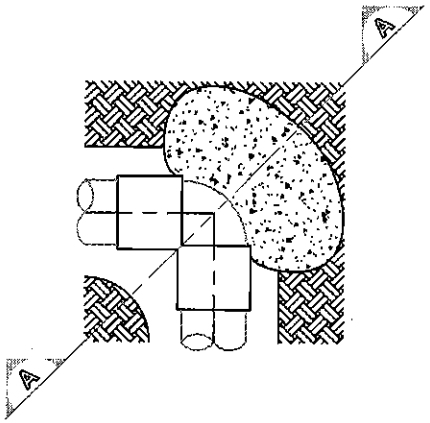
BEDDING AND COVER MATERIAL SHALL BE TOPSOIL WITH NO ROCKS.

NOTES:

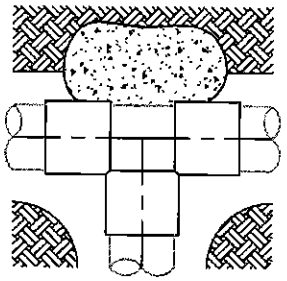
1. BEDDING SHALL BE PLACED AND LEVELED PRIOR TO INSTALLATION OF BURY ITEM.
2. BACKFILL SHALL BE PLACED IN MAXIMUM 6" LIFTS.
3. SLEEVE ALL PIPE AND WIRE SEPARATELY. SLEEVE 2 X DIA. OF PIPE. ONE PIPE PER SLEEVE.
4. ALL PIPE TO BE INSTALLED PER MANUFACTURES SPECIFICATIONS WITH PIPE LABELING FACING UP FOR INSPECTION PURPOSES. PROVIDE A MINIMUM OF 2" CLEARANCE TO SIDE OF TRENCH AND BETWEEN PIPES.
5. 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 PRESSURIZED MAINLINES 3" AND ABOVE.

REVISED: 7/15/03

DETAIL NO. 2642	City of Scottsdale Standard Details	IRRIGATION TRENCHING	DETAIL NO. 2642



90° ELL
SCALE: NTS

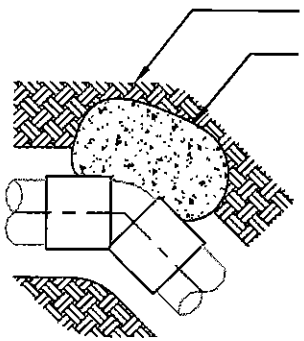


TEE
SCALE: NTS

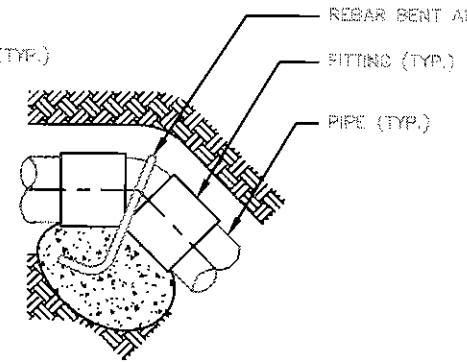
MINIMUM THRUST BLOCK AREA (YxW)		
PIPE SIZE	IRRIGATION PIPE	
	TEE, DEAD END 90°BEND	45°,22.5°
2" & LESS	1 SF	.5 SF
3"	1.5 SF	1 SF
4"	2 SF	1.5 SF
6" & LARGER	PER MAG DETAIL 380	PER MAG DETAIL 380

NOTES

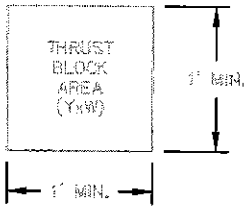
1. MINIMUM THRUST BLOCK AREAS ARE BASED ON A SOIL BEARING CAPACITY OF 3000 LBS/SF
2. THRUST BLOCK SHALL EXTEND INTO UNDISTURBED SOIL.
3. THRUST BLOCK SHALL BE MAG SECT. 725–CLASS C.

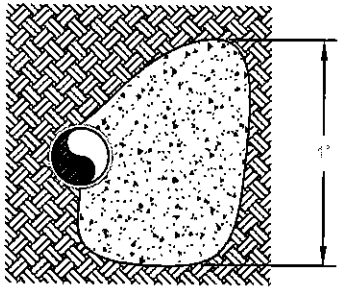


45° ELL
SCALE: NTS



45° ELL (VERTICAL)
SCALE: NTS

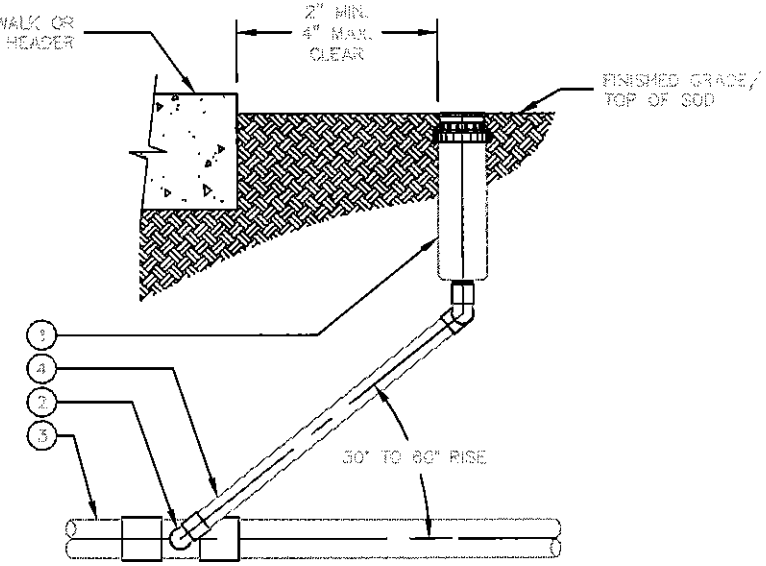




SECTION A

REVISED: 1/11/00

DETAIL NO. 2643	City of Scottsdale Standard Details	IRRIGATION THRUST BLOCK	DETAIL NO. 2643



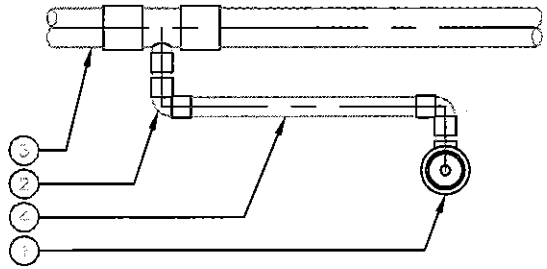
SWING JOINT ASSEMBLY ELEVATION

SCALE: NTS

REVISED: 2/21/02

LIST OF MATERIALS

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



SWING JOINT ASSEMBLY PLAN

SCALE: NTS

NOTES:

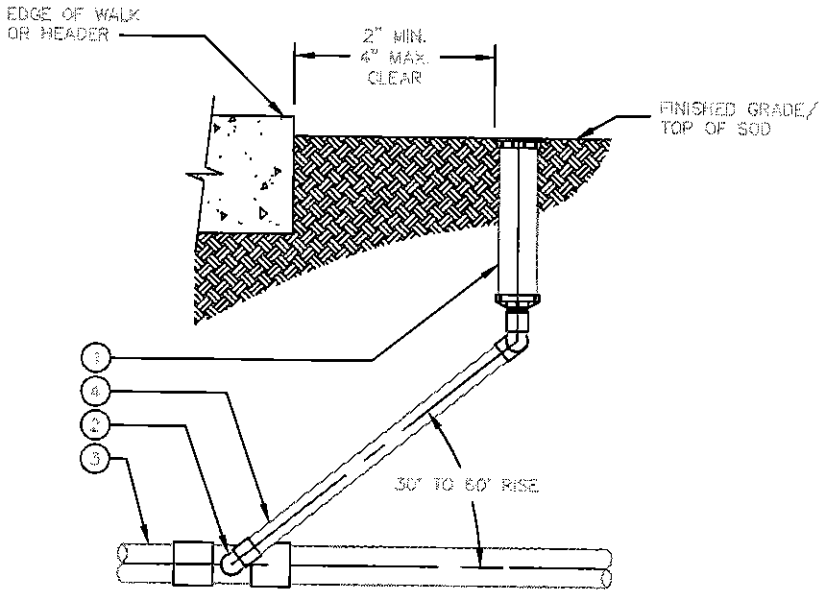
1. SWING JOINT TO BE THE SAME SIZE AS SPRINKLER HEAD INLET.
2. NO PRE-FAB SWING JOINTS
3. NO MARLEX FITTINGS

DETAIL NO. 2644

City of Scottsdale Standard Details

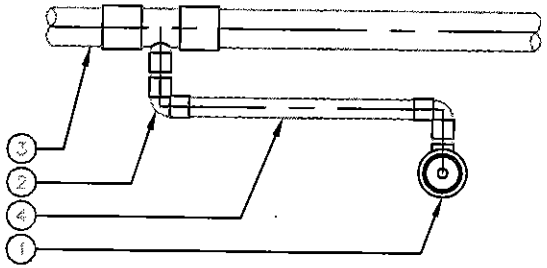
ROTOR SPRINKLER ASSEMBLY

DETAIL NO. 2644



SWING JOINT ASSEMBLY ELEVATION

SCALE: NTS



SWING JOINT ASSEMBLY PLAN

SCALE: NTS

LIST OF MATERIALS

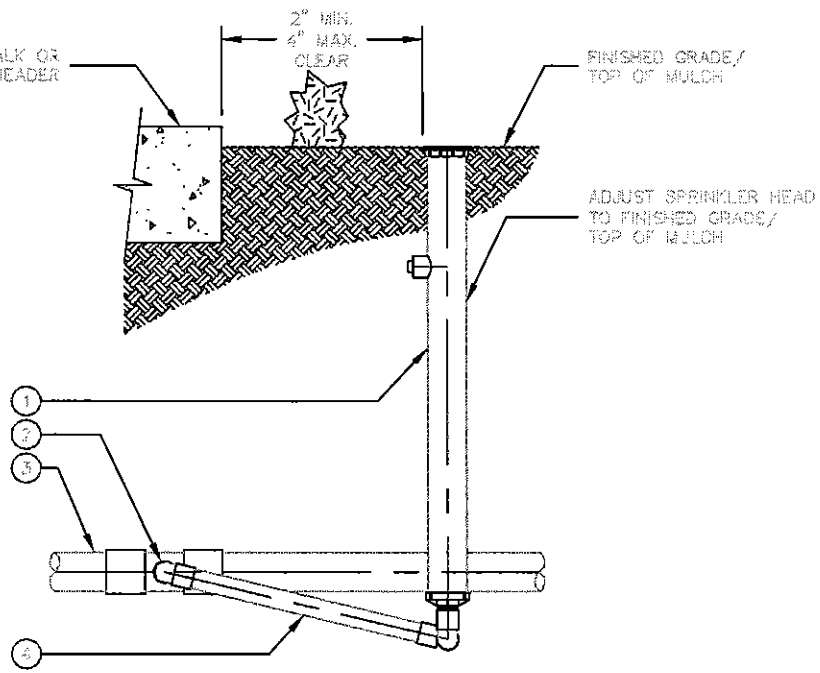
1. 4" POP-UP SPRAY SPRINKLER HEAD
2. STREET ELL (1 OF 3) SCH 40 PVC
3. PVC LATERAL PIPE
4. SCH 80 NIPPLE TBE

NOTES

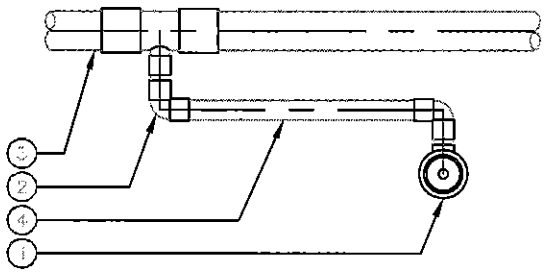
1. SWING JOINT TO BE THE SAME SIZE AS SPRINKLER HEAD INLET.
2. NO PRE-FAB SWING JOINTS.
3. NO MARLEX FITTINGS

REVISED: 2/27/02

DETAIL NO. 2645	City of Scottsdale Standard Details	POP-UP SPRINKLER ASSEMBLY	DETAIL NO. 2645



SWING JOINT ASSEMBLY
ELEVATION
SCALE: NTS



SWING JOINT ASSEMBLY PLAN
SCALE: NTS

LIST OF MATERIALS

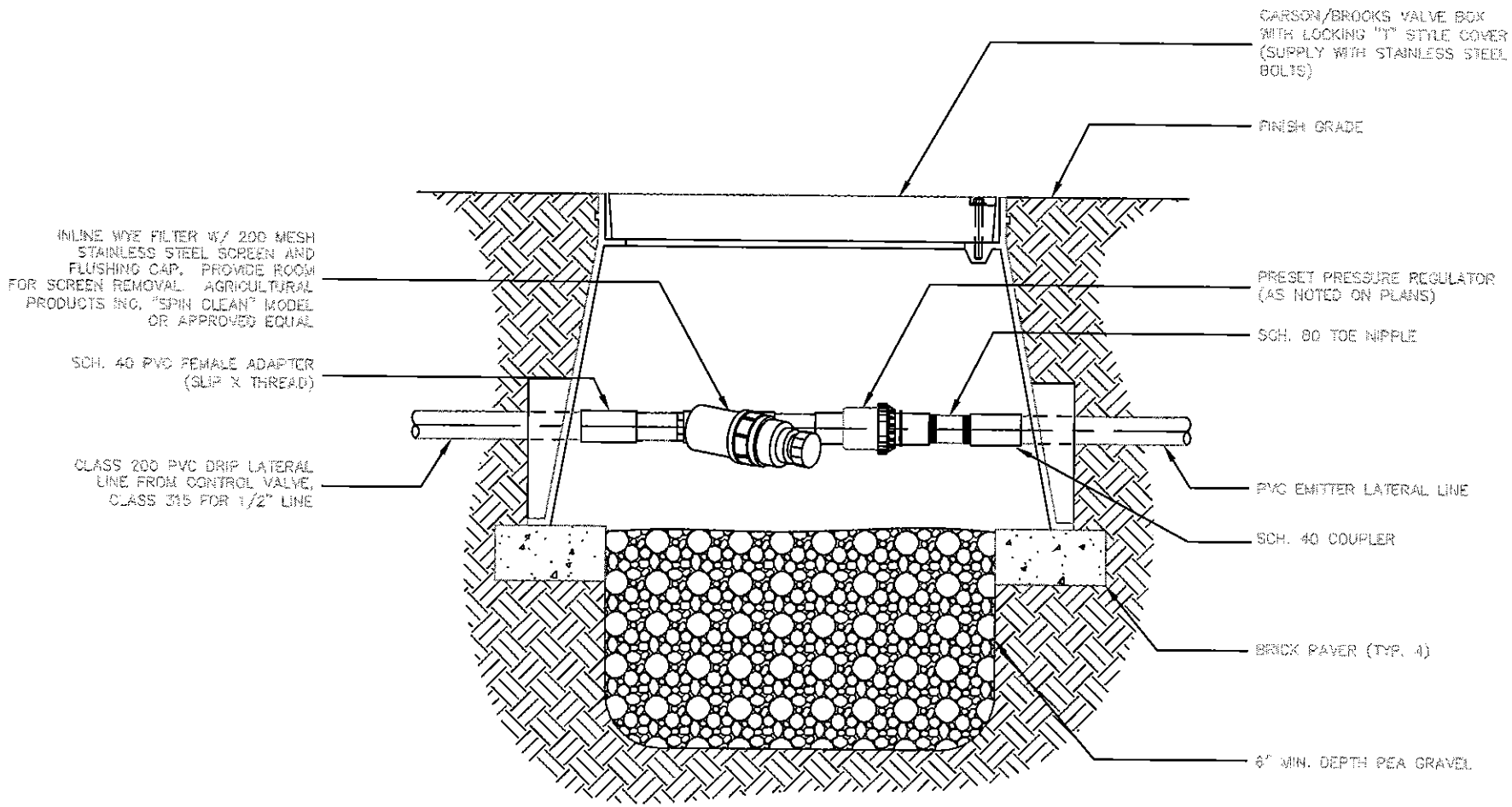
1. 12" POP-UP SPRAY SPRINKLER HEAD
2. STREET ELL (1 OF 3) SCH 40 PVC
3. PVC LATERAL PIPE
4. SCH 80 NIPPLE TBE

NOTES

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

DETAIL NO. 2846	City of Scottsdale Standard Details	SHRUB POP-UP SPRINKLER ASSEMBLY	DETAIL NO. 2845

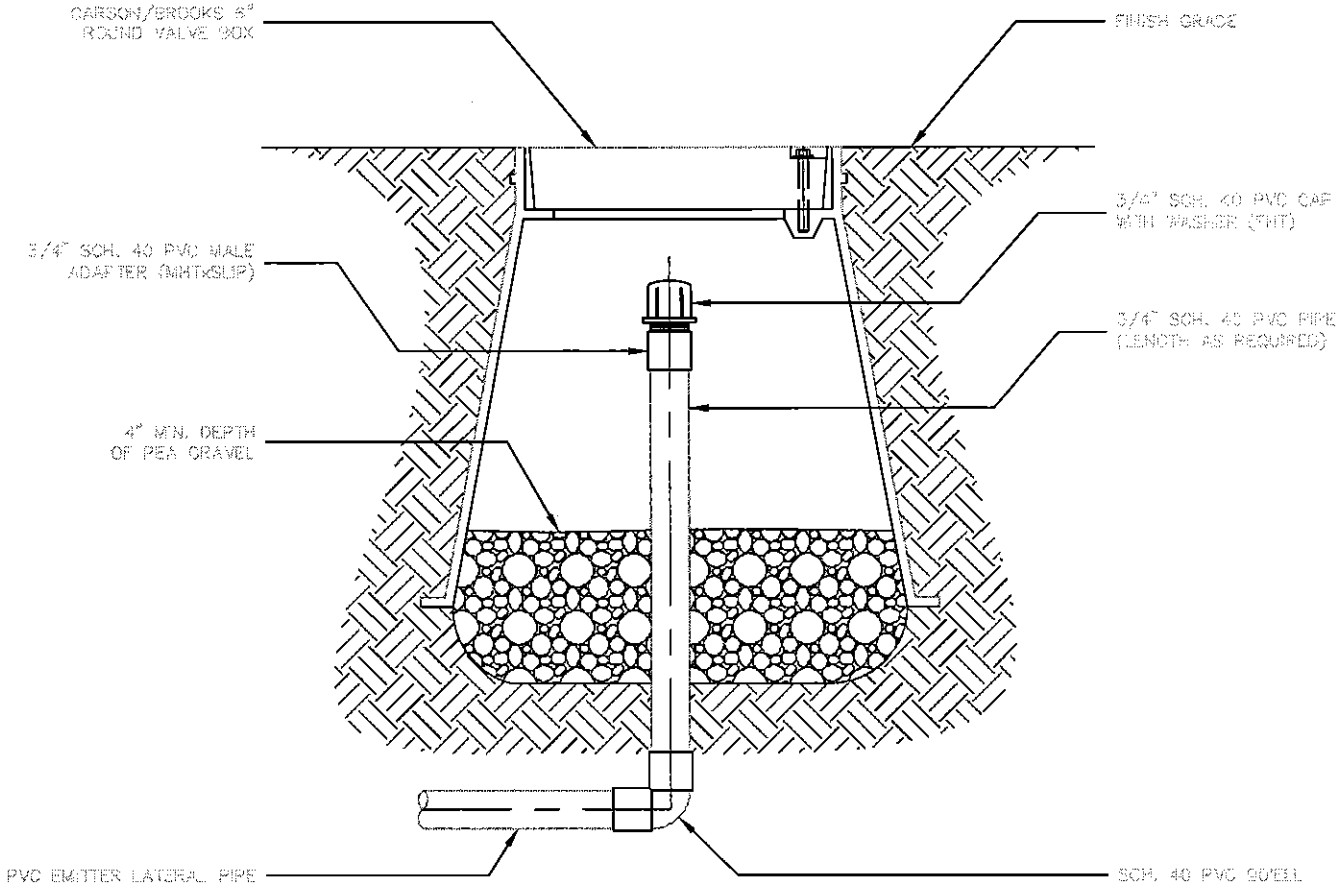
REVISED: 7/15/03



DRIP FILTER & PRESS. REG. ASSEMBLY

SCALE: NTS

DETAIL NO. 2647	City of Scottsdale Standard Details	DRIP FILTER & PRESSURE REGULATOR	DETAIL NO. 2647

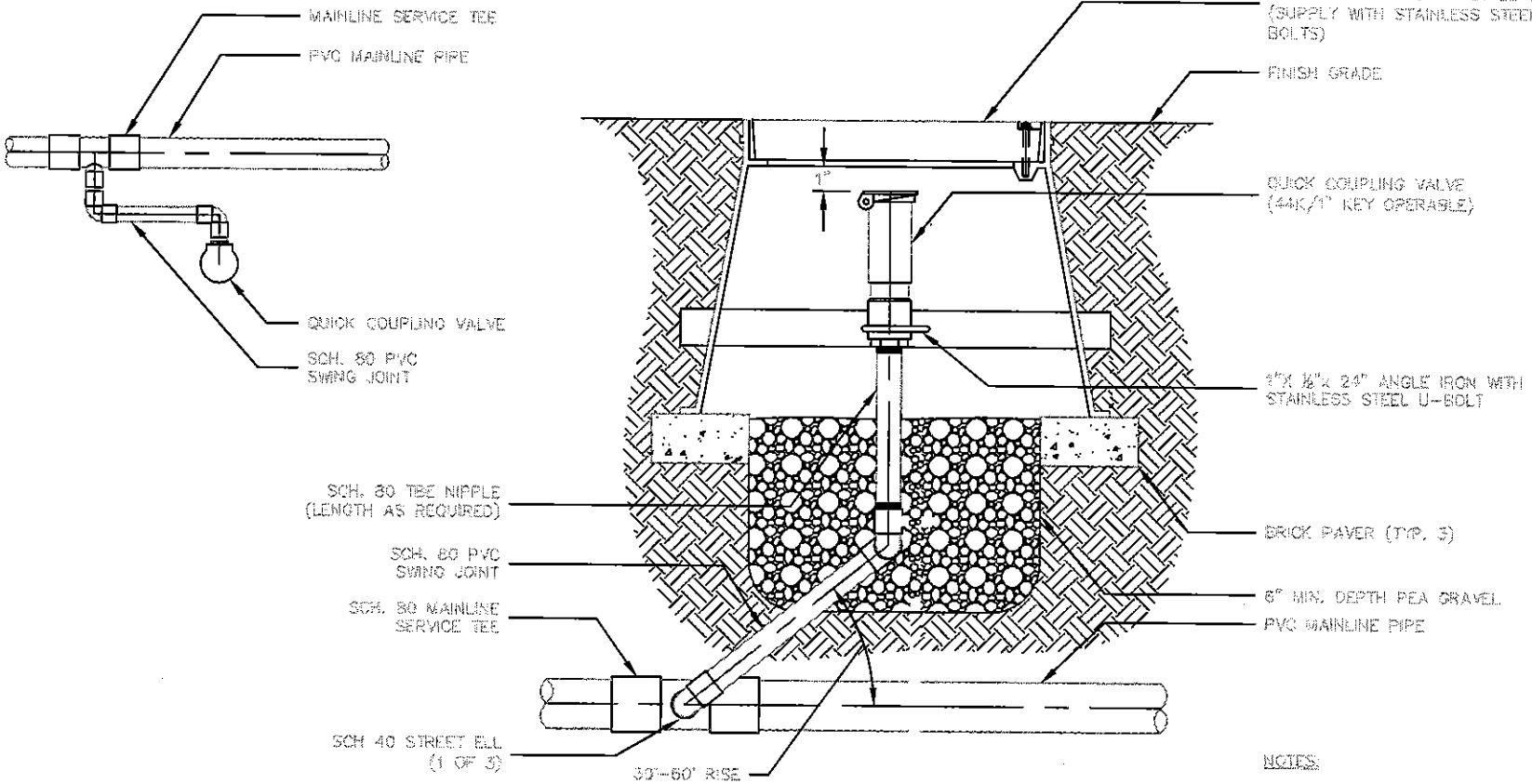


EMITTER FLUSH CAP ASSEMBLY

SCALE: NTS

REVISED: 1/6/03

DETAIL NO. 2649	City of Scottsdale Standard Details	EMITTER FLUSH CAP ASSEMBLY	DETAIL NO. 2648



QUICK COUPLER ASSEMBLY

SCALE: NTS

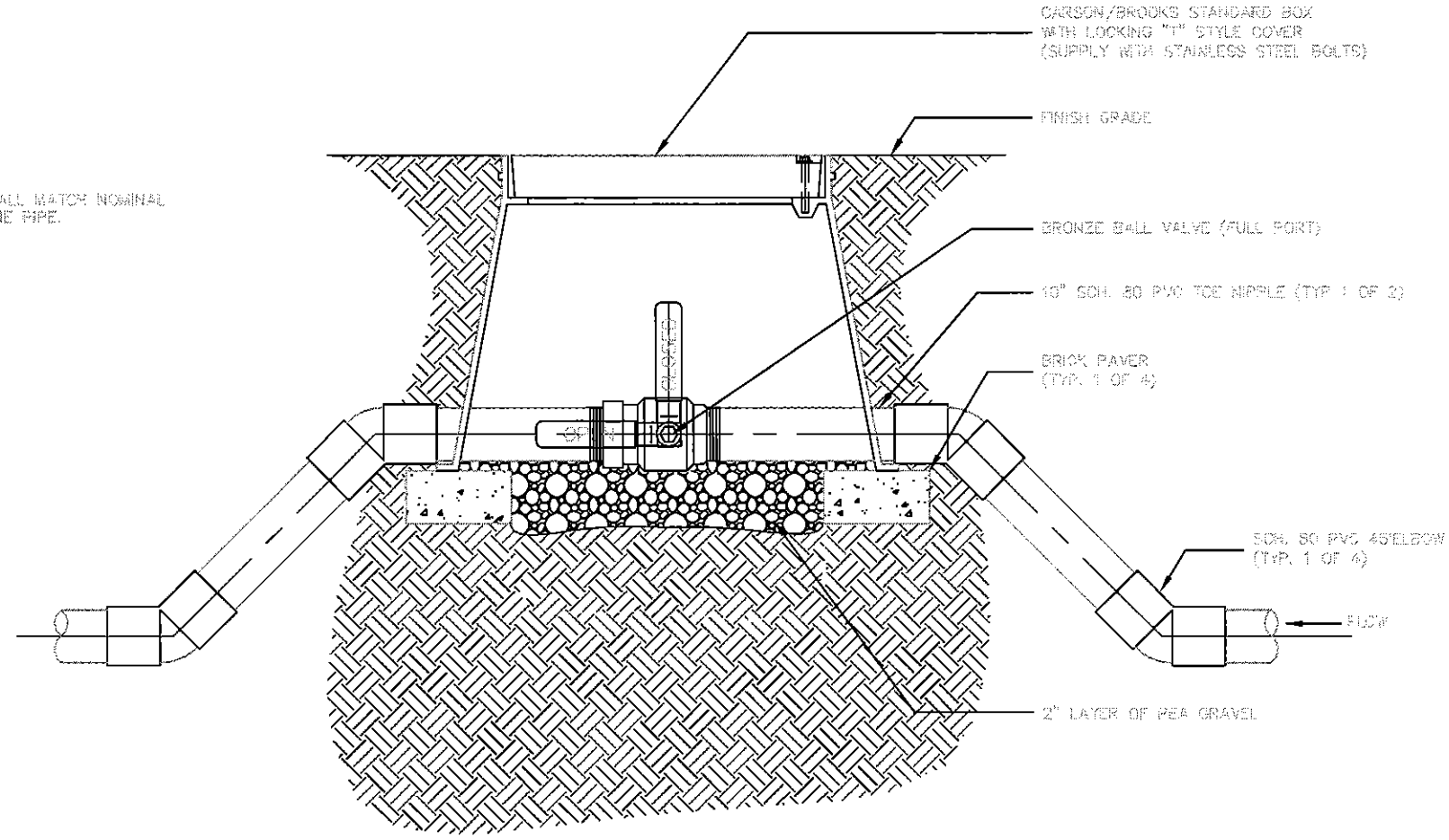
NOTES:

1. EACH QUICK COUPLER SHALL BE IN A SEPARATE VALVE BOX.
2. SWING JOINT SHALL BE THE SAME SIZE AS QUICK COUPLER VALVE.
3. NO PRE-FAB SWING JOINTS.
4. U-BOLT TO BE SECURED WITH LOCK WASHERS AND BACK-UP LOCKING NUT.

DETAIL NO. 2649	City of Scottsdale Standard Details	QUICK COUPLER ASSEMBLY	DETAIL NO. 2649

NOTES:

1. BALL VALVE SHALL MATCH NOMINAL SIZE OF MAINLINE PIPE.



1-1/2" & SMALLER MAINLINE
ISOLATION BALL VALVE ASSEMBLY

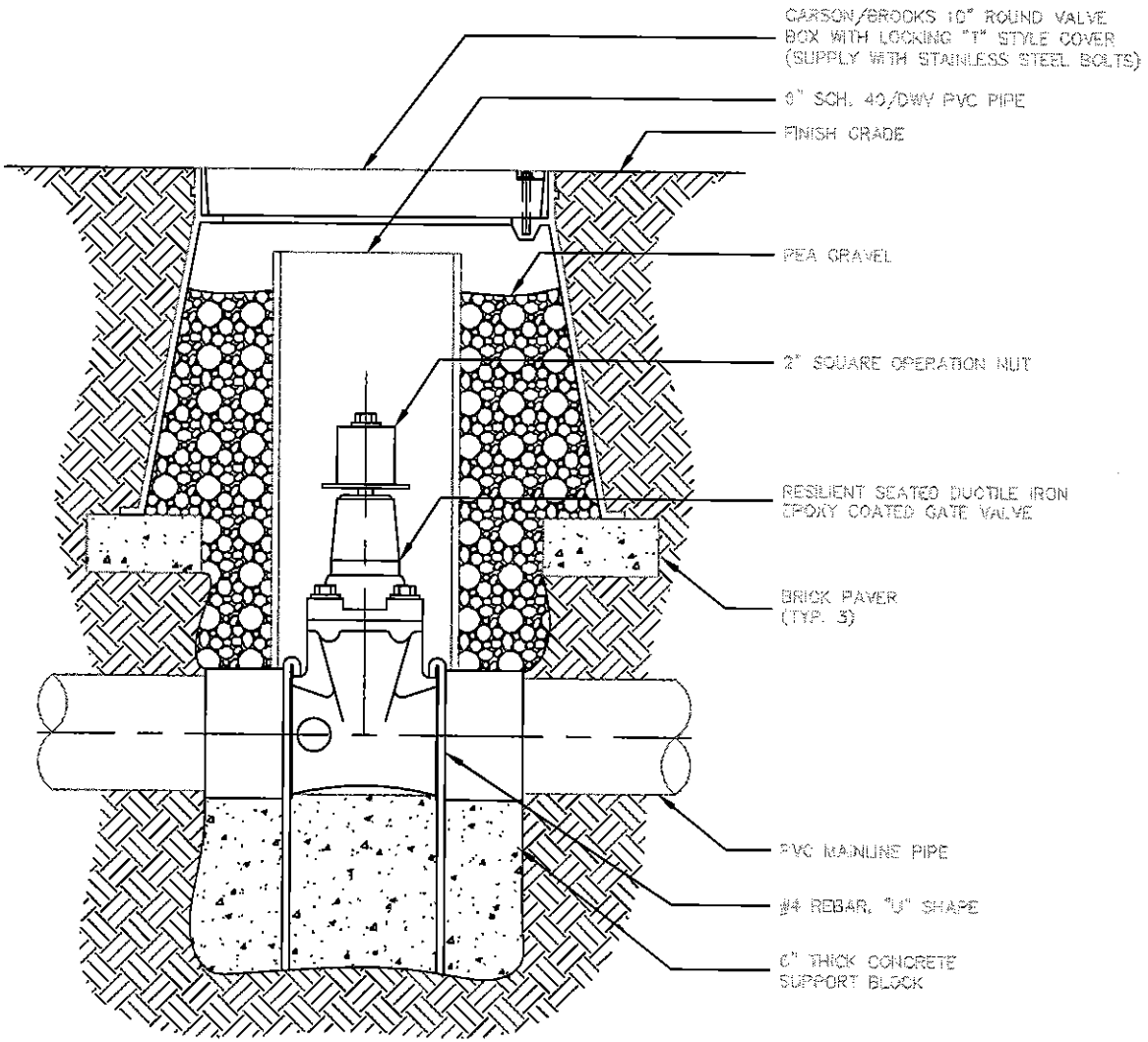
SCALE: NTS

REVISED: 7/15/05

DETAIL NO. 2650	City of Scottsdale Standard Details	1-1/2" & SMALLER MAINLINE BALL VALVE	DETAIL NO. 2650

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

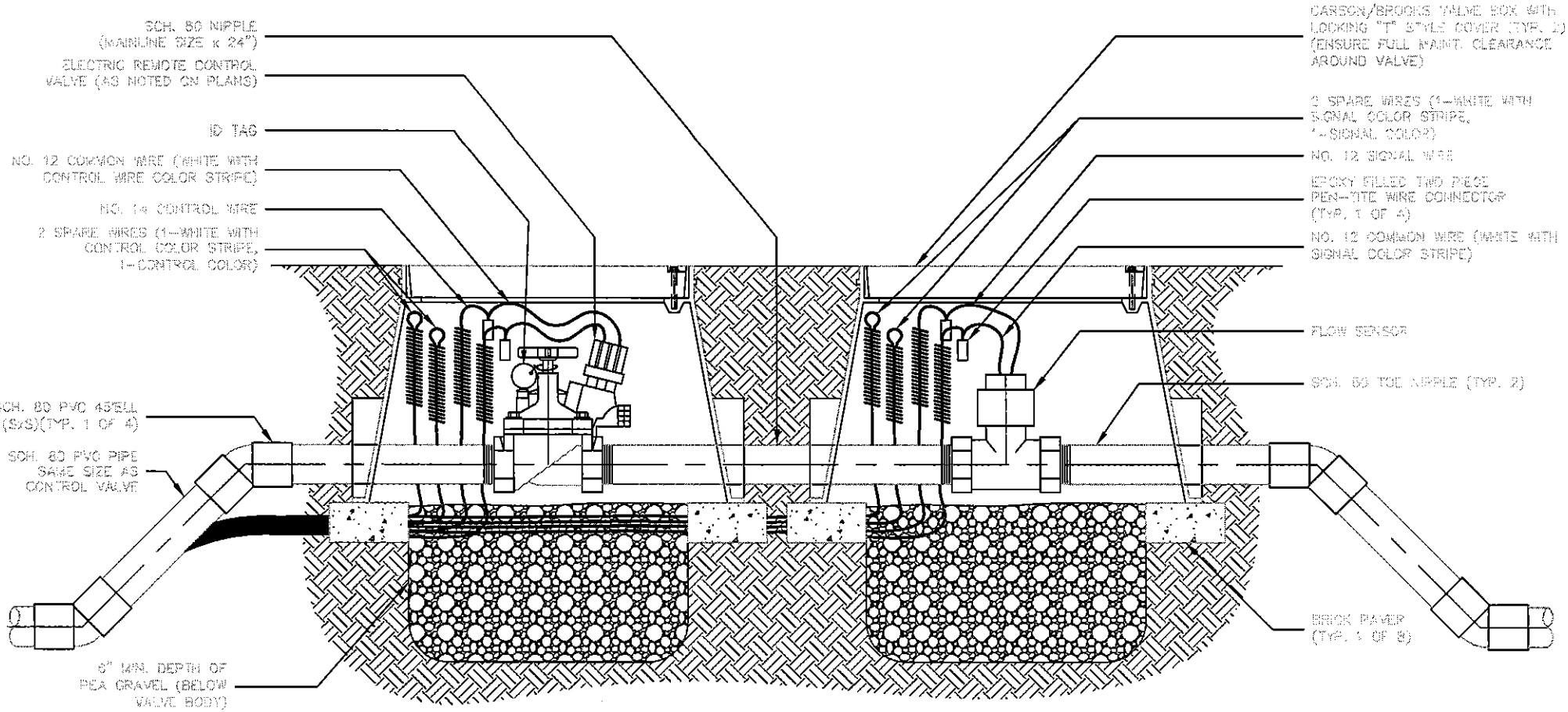
REVISED: 7/15/03

DETAIL NO. 2651

City of Scottsdale Standard Details

2" & LARGER MAINLINE ISOLATION GATE VALVE

DETAIL NO. 2651



1" MASTER VALVE/ FLOW METER ASSEMBLY

SCALE: NTS

NOTES:

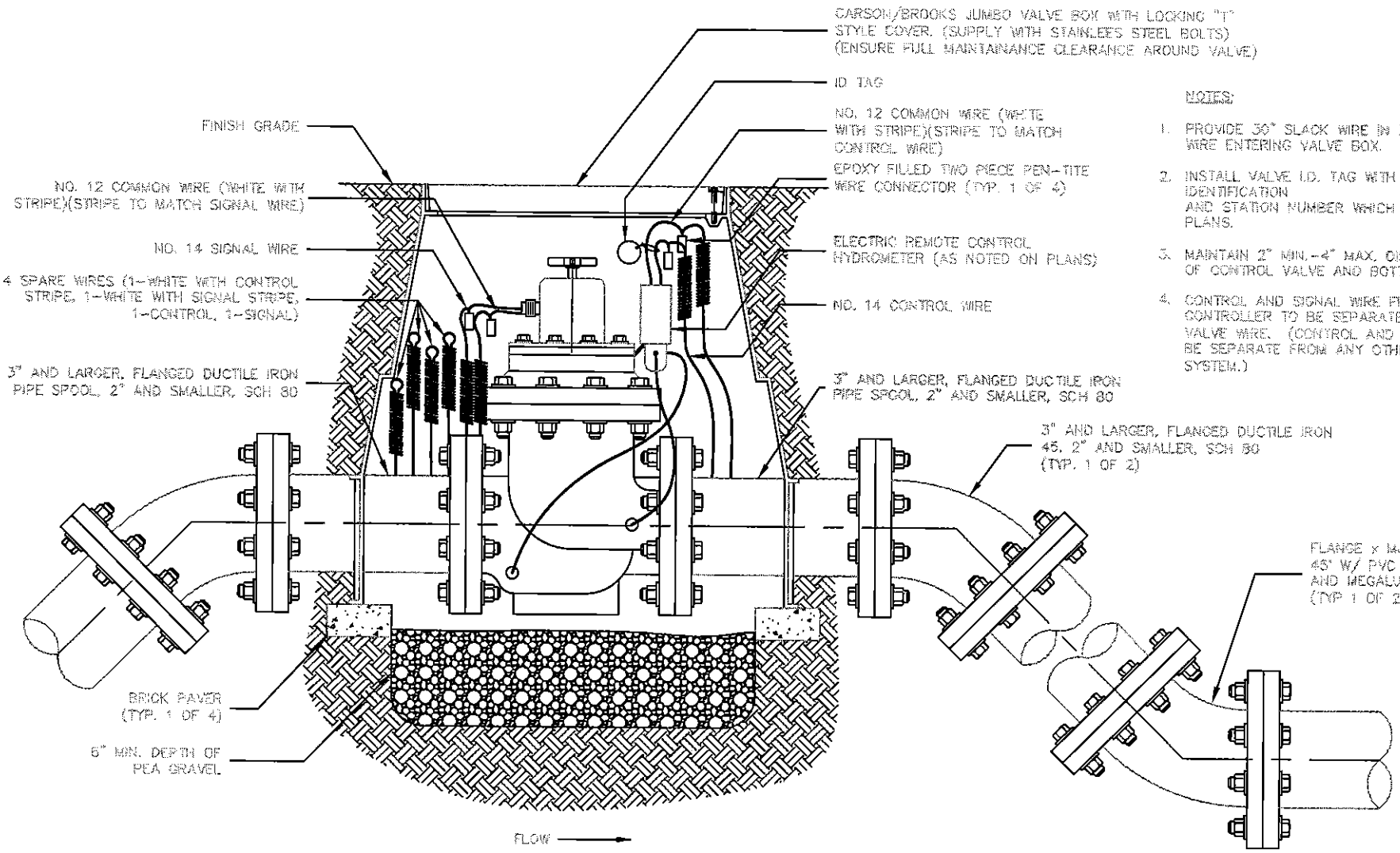
1. PROVIDE 30" SLACK WIRE IN 3/4" COILS FOR EACH WIRE ENTERING VALVE BOX.
2. INSTALL VALVE I.D. TAG WITH CONTROLLER IDENTIFICATION AND STATION NUMBER WHICH CORRESPONDS TO THE PLANS.
3. MAINTAIN 2" MIN.-4" MAX. DISTANCE BETWEEN TOP OF CONTROL VALVE AND BOTTOM OF BOX LID.
4. CONTROL AND SIGNAL WIRE FROM MASTER VALVE TO CONTROLLER TO BE SEPARATE COLOR FROM OTHER VALVE WIRE. (CONTROL AND SIGNAL COMMONS TO BE SEPARATE FROM ANY OTHERS COMMONS IN THE SYSTEM.)
5. A DATA INDUSTRIAL MODEL 600-50 PULSE OUTPUT TRANSMITTER IS REQUIRED TO BE MOUNTED INSIDE THE CONTROLLER CABINET (SEE CITY IRRIGATION SUPERVISOR FOR WIRING INFORMATION).

DETAIL NO. 2252

City of Scottsdale Standard Details

1" MASTER VALVE / FLOW METER

DETAIL NO. 2252



NOTES:

1. PROVIDE 30" SLACK WIRE IN 3/4" COILS FOR EACH WIRE ENTERING VALVE BOX.
2. INSTALL VALVE I.D. TAG WITH CONTROLLER IDENTIFICATION AND STATION NUMBER WHICH CORRESPONDS TO THE PLANS.
3. MAINTAIN 2" MIN.-4" MAX. DISTANCE BETWEEN TOP OF CONTROL VALVE AND BOTTOM OF BOX LID.
4. CONTROL AND SIGNAL WIRE FROM MASTER VALVE TO CONTROLLER TO BE SEPARATE COLOR FROM OTHER VALVE WIRE. (CONTROL AND SIGNAL COMMONS TO BE SEPARATE FROM ANY OTHERS COMMONS IN THE SYSTEM.)

REVISED: 7/15/03

1 1/2" LARGER MASTER VALVE / FLOW METER ASSEMBLY

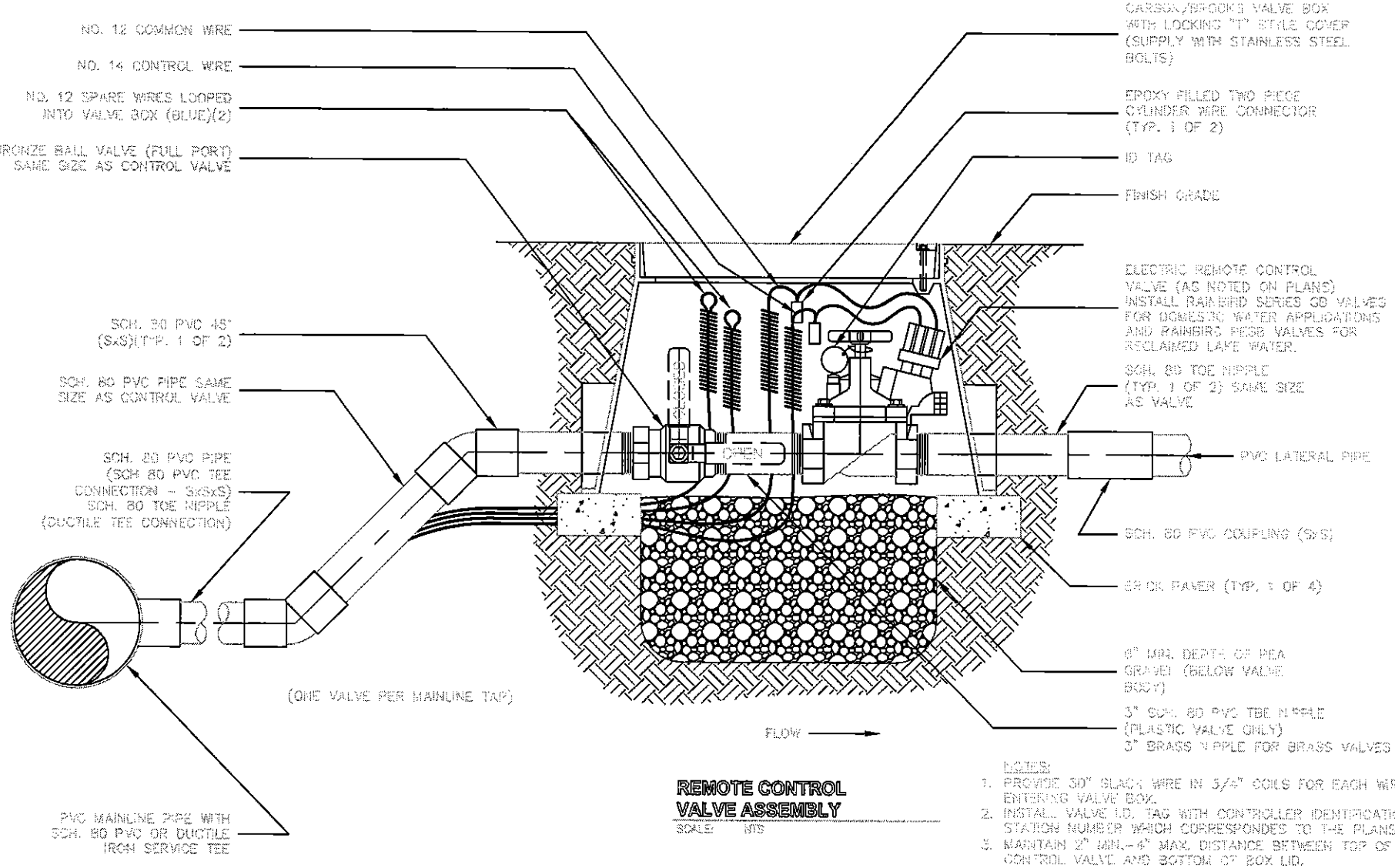
SCALE: NTS

DETAIL NO. 2653

City of Scottsdale Standard Details

1 1/2" & LARGER MASTER VALVE/FLOW METER

DETAIL NO. 2653



REMOTE CONTROL VALVE ASSEMBLY

SCALE: NTS

NOTES:

1. PROVIDE 30" SLACK WIRE IN 5/4" COILS FOR EACH WIRE ENTERING VALVE BOX.
2. INSTALL VALVE I.D. TAG WITH CONTROLLER IDENTIFICATION AND STATION NUMBER WHICH CORRESPONDES TO THE PLANS.
3. MAINTAIN 2" MIN.-4" MAX. DISTANCE BETWEEN TOP OF CONTROL VALVE AND BOTTOM OF BOX LID.
4. INSTALL D.C. LATCHING SOLENOIDS W/ D.C. CONTROLLERS.
5. FOR BRASS CONTROL VALVES, INSTALL 3" BRASS TBE NIPPLE BETWEEN BALL VALVE AND CONTROL VALVE

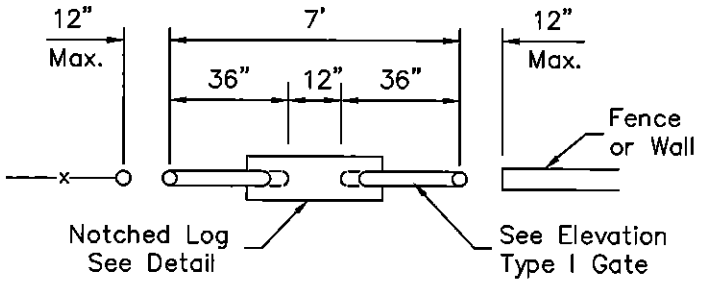
REVISED: 7/15/03

DETAIL NO. 2654

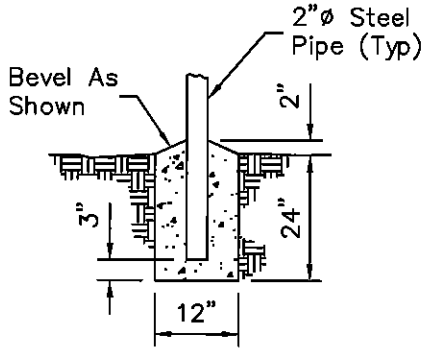
City of Scottsdale Standard Details

REMOTE CONTROL VALVE ASSEMBLY

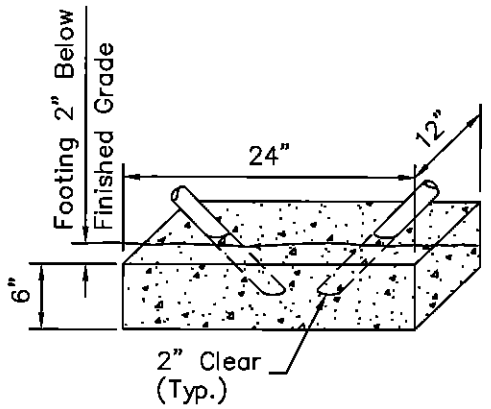
DETAIL NO. 2654



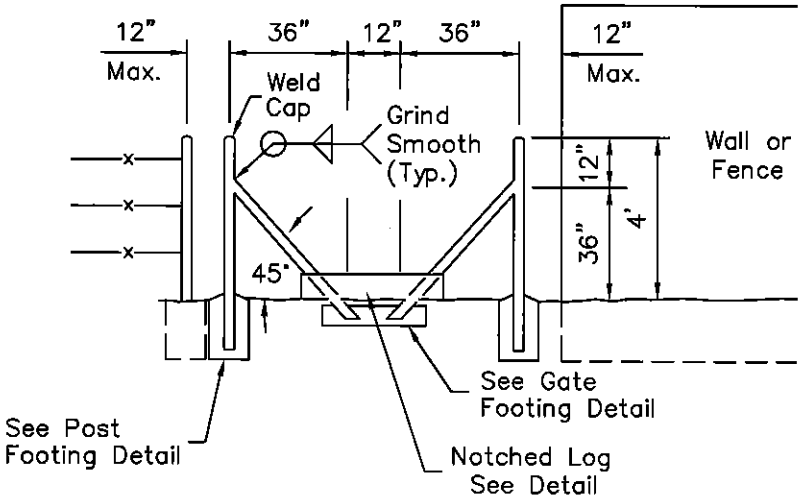
TYPE I GATE w/ NOTCHED LOG



POST FOOTING DETAIL



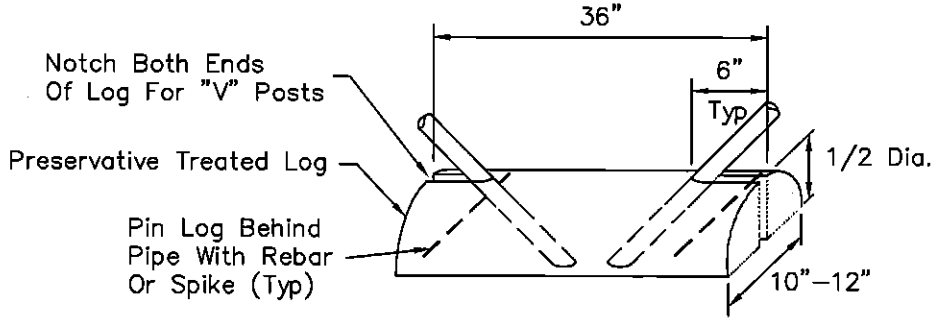
GATE FOOTING DETAIL



ELEVATION TYPE I GATE

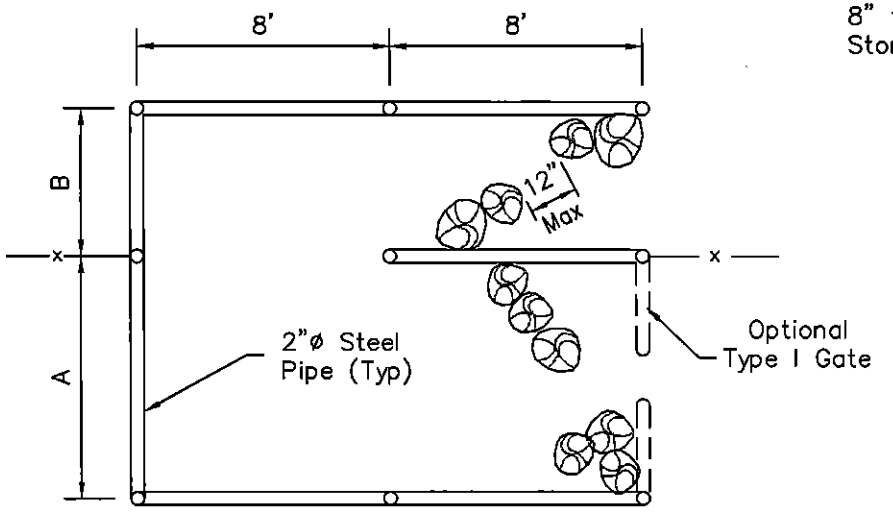
NOTES:

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

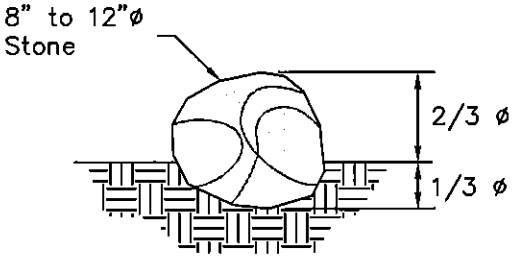


NOTCHED LOG DETAIL

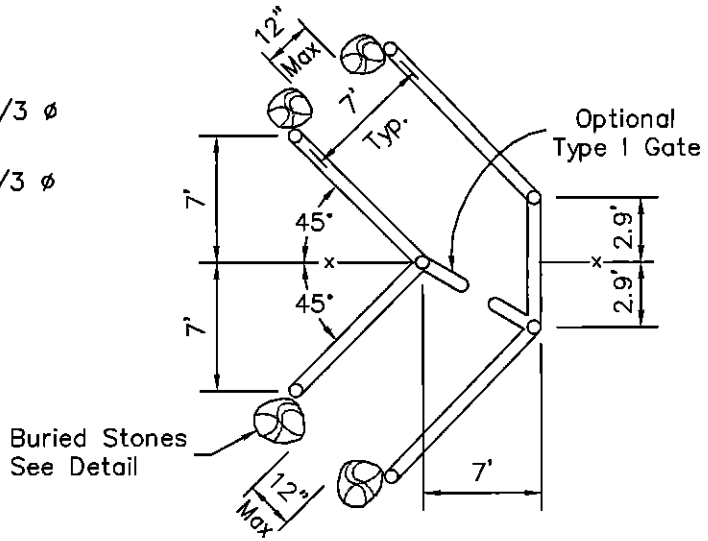
DETAIL NO. 2680-1	City of Scottsdale Standard Details	APPROVED BY: _____	TRAIL ACCESS GATES	DETAIL NO. 2680-1



TYPE II GATE



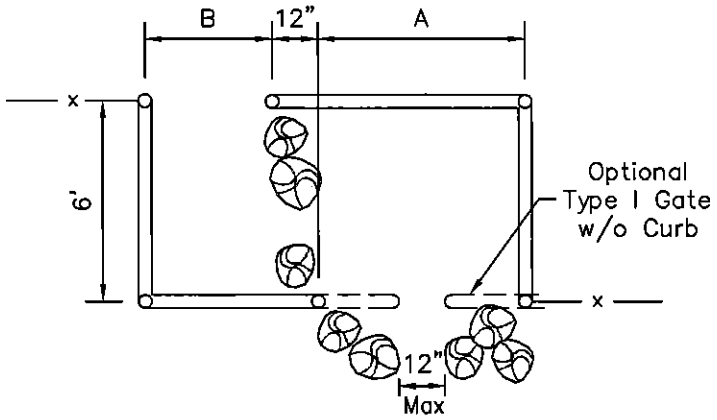
BURIED STONE DETAIL



TYPE IV GATE

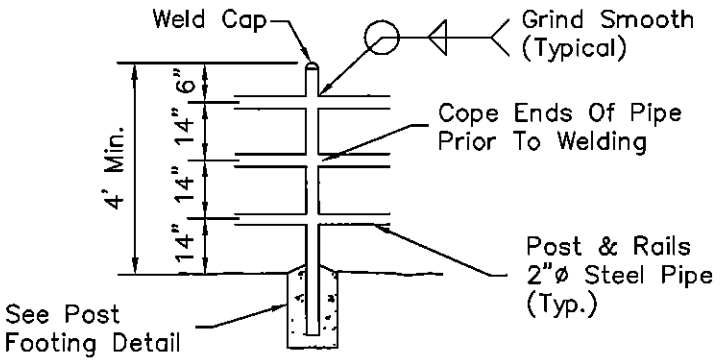
NOTE:

Gate barriers for Type II, III and IV gates shall be buried stones or Type I gate as shown on plan.



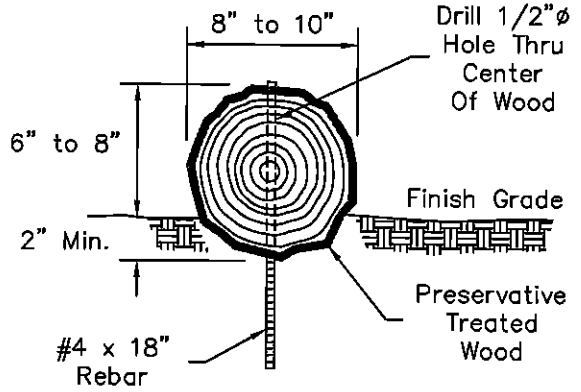
TYPE III GATE

TYPE II and III GATE DIMENSIONS		
GATE BARRIER	A	B
Type I	7'	4'
Buried Rocks	4'	4'

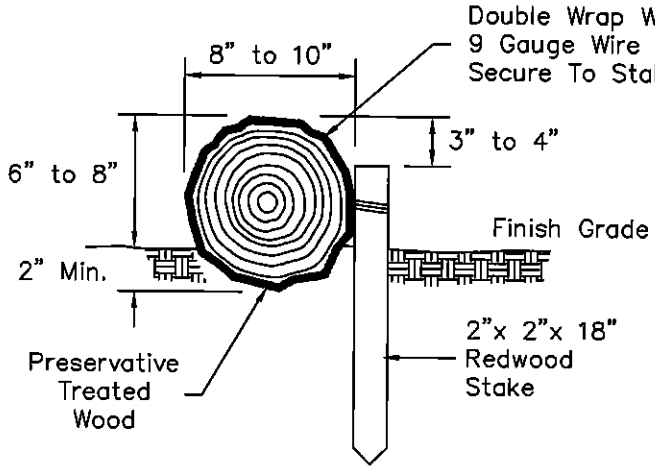


TYPICAL RAIL ELEVATION TYPE II, III & IV GATE

DETAIL NO. 2680-2	City of Scottsdale Standard Details	APPROVED BY: _____	TRAIL ACCESS GATES	DETAIL NO. 2680-2



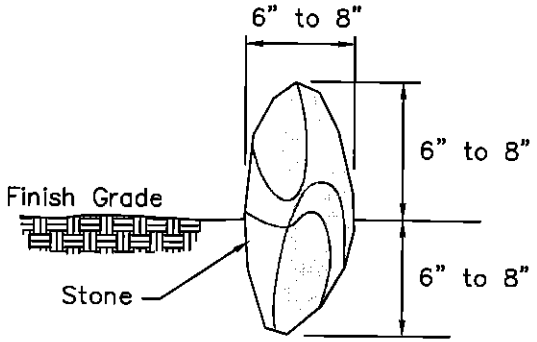
REBAR SECURED WOOD BARS



WIRE SECURED WOOD BARS

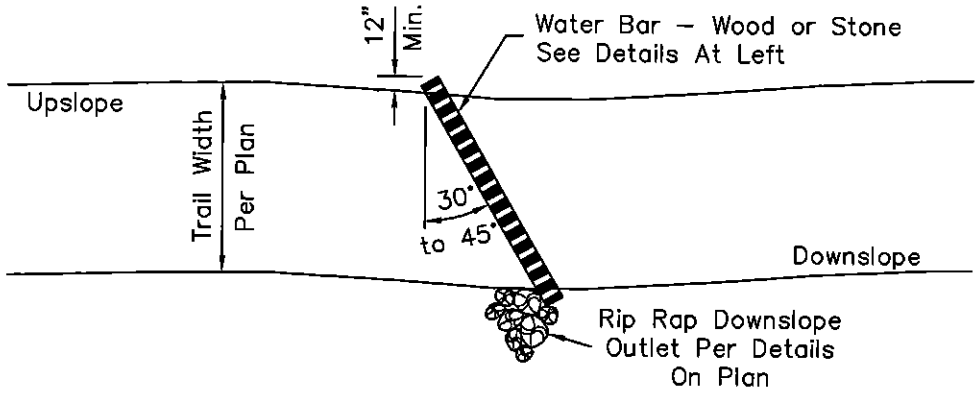
NOTES:

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



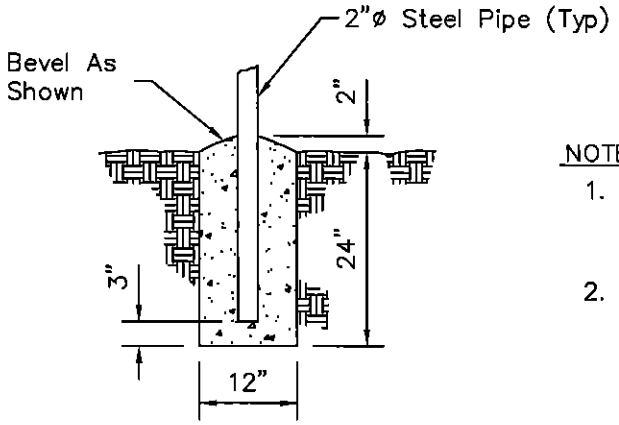
Stagger Stones To Provide A Continuous Water Bar

STONE BARS



WATER BARS
PLAN

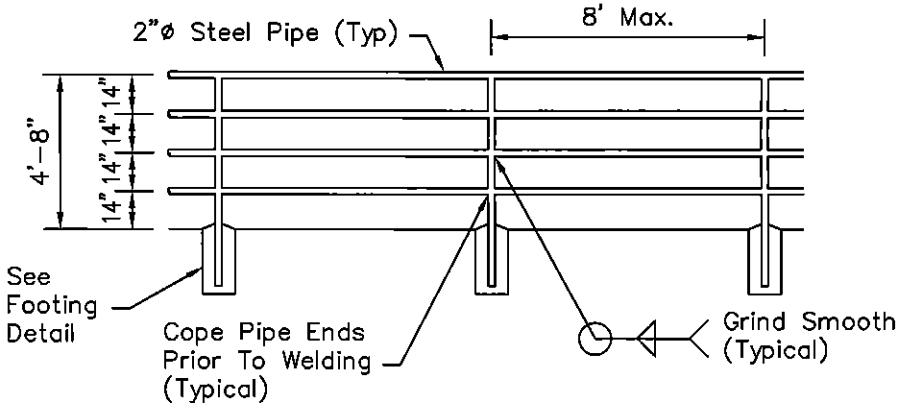
DETAIL NO. 2681	City of Scottsdale Standard Details	APPROVED BY: _____	TRAIL WATER BARS	DETAIL NO. 2681



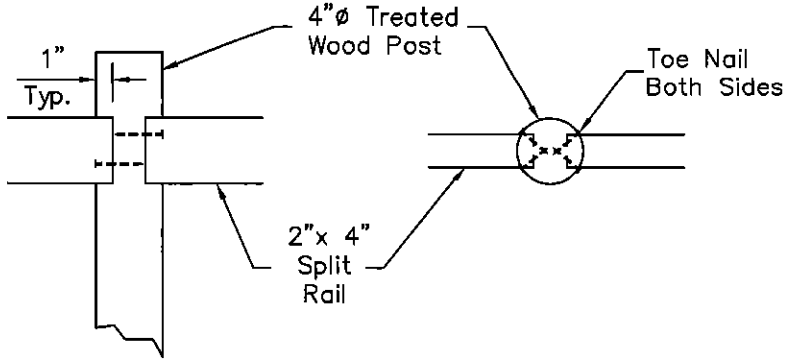
CONCRETE FOOTING DETAIL

NOTES:

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

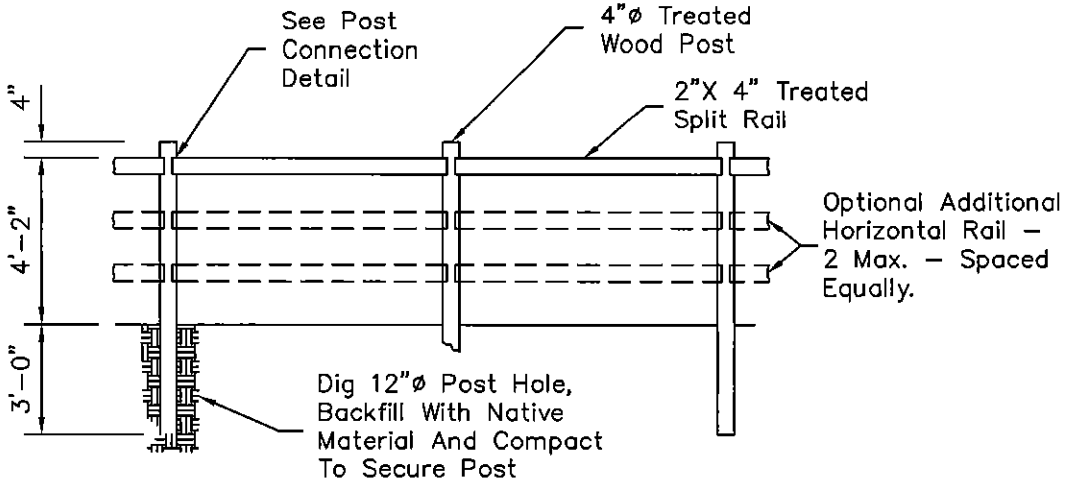


STEEL RAIL



ELEVATION PLAN

POST CONNECTION DETAIL

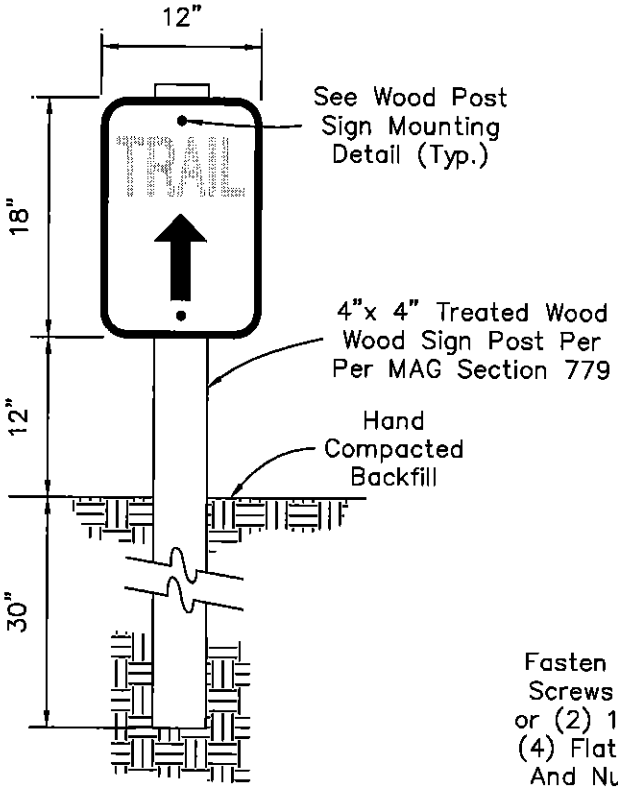


POST AND RAIL

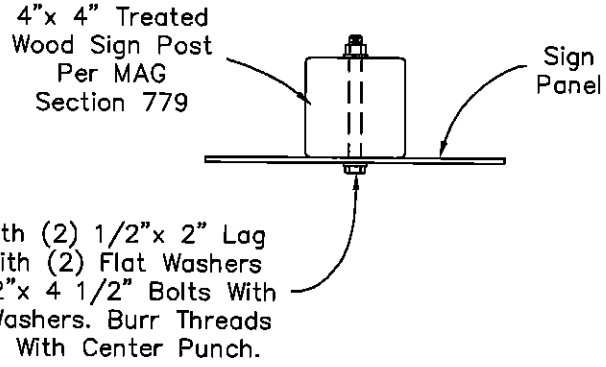
DETAIL NO.		APPROVED BY:		DETAIL NO.
2502	City of Scottsdale Standard Details		TRAIL SAFETY BARRIERS	2502

NOTES:

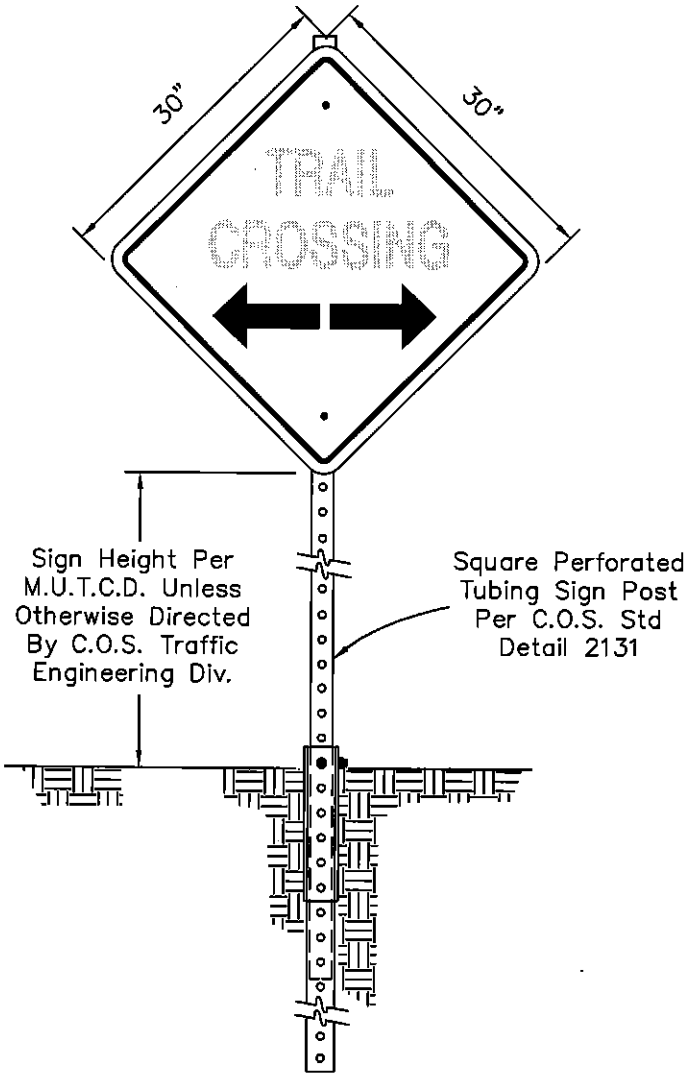
1. Signs shall conform to C.O.S. Supplemental Specifications, Section 402.3.
2. Signs to be mounted on square perforated tubing per C.O.S. Std Det 2131 within C.O.S. Right–of–Way. Treated wood post may be used for trail markers located outside C.O.S. Right–of Way.
3. Legends shall be reflectorized white vinyl sheeting on a green or brown vinyl back–ground unless otherwise approved by the City of Scottsdale.



TRAIL MARKER



WOOD POST SIGN MOUNTING DETAIL



TRAIL CROSSING SIGN

DETAIL NO. 2683	City of Scottsdale Standard Details	APPROVED BY:	TRAIL SIGNS	DETAIL NO. 2683