






**CITY OF SIMI VALLEY  
PUBLIC WORKS/MAINTENANCE DIVISION  
LANDSCAPE AND STREET TREE SECTION  
LANDSCAPE PLATES AND INSTALLATION REQUIREMENTS**

**INDEX**


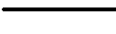

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# LANDSCAPE IRRIGATION SYMBOLS AND ABBREVIATION




**(BACKFLOW PREVENTER ASSEMBLY:)**

DOUBLE CHECK VALVE	-----	
REDUCED PRESSURE DEVICE	-----	
CONTROLLER	-----	
DRINKING FOUNTAIN	-----	
ELECTRICAL CONDUIT	-----	


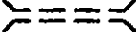


**(PIPE:)**

PRESSURE MAIN LINE	-----	
LATERAL LINE	-----	
POINT OF CONNECTION	-----	POC
POWER SOURCE	-----	



**(PULL BOX:)**

HIGH VOLTAGE	-----	
LOW VOLTAGE	-----	
PUMP	-----	






**(SLEEVE:)**

NEW	-----	
EXISTING	-----	
STATION DESIGNATION (REMOTE CONTROL VALVE)	-----	
THRUST BLOCK	-----	

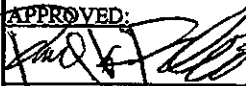
**VACUUM BREAKER ASSEMBLY:**

ATMOSPHERIC	-----	
PRESSURE	-----	

**(VALVE ASSEMBLY:)**

ANGLE	-----	
CHECK	-----	
BALL	-----	
HOSE BIBB	-----	
MASTER VALVE	-----	

6/3/10

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 6/18/10  
 DATE




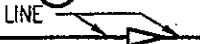



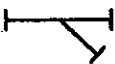
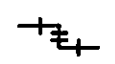

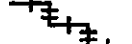
**CITY OF  
 SIMI VALLEY**  
 DEPARTMENT OF PUBLIC WORKS

**LANDSCAPE IRRIGATION  
 SYMBOLS**

STANDARD PLAN NO.  
**SV 50-10**  
 SHEET 1 OF 2

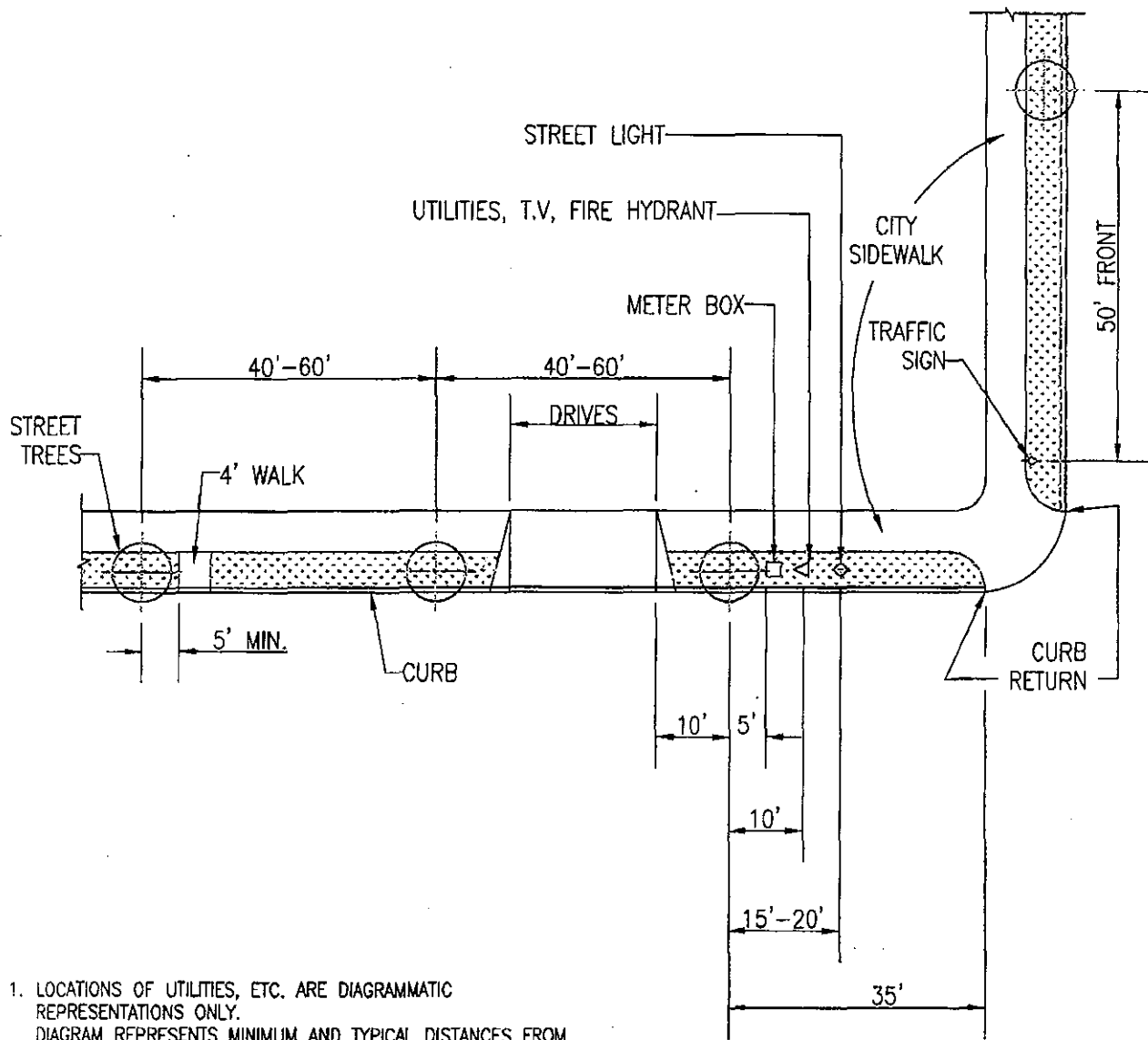
# LANDSCAPE IRRIGATION SYMBOLS AND ABBREVIATION

**(VALVE ASSEMBLY)**

FLOW SENSOR -----	
QUICK COUPLER (BELOW GRADE) -----	
QUICK COUPLER (ABOVE GRADE) -----	
PRESSURE REGULATOR -----	
PRESSURE RELIEF -----	
REMOTE CONTROL -----	
WATER METER -----	
Y-STRAINER -----	
SWING JOINT ASSEMBLY - ABOVE GRADE: -----	
SINGLE -----	
DOUBLE -----	

6/3/10

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1. LOCATIONS OF UTILITIES, ETC. ARE DIAGRAMMATIC REPRESENTATIONS ONLY. DIAGRAM REPRESENTS MINIMUM AND TYPICAL DISTANCES FROM UTILITIES, NOT LOCATION OF UTILITIES. FOR EXACT LOCATIONS, SEE ENGINEER'S PLANS. UTILITIES SHALL BE VERIFIED ON SITE AND SUBJECT TO INSPECTION.
2. A MINIMUM OF ONE TREE PER LOT AND THREE PER CORNER LOT IS POSSIBLE, BUT BASED ON AVAILABLE SPACE. ON CORNER LOTS, ONE TREE IN FRONT AND TWO ON SIDE IF SPACE IS AVAILABLE.
3. FOR COMMERCIAL OR INDUSTRIAL DRIVEWAYS, AN INCREASED DISTANCE MAY BE REQUIRED BEYOND THE STANDARD 10 FOOT.

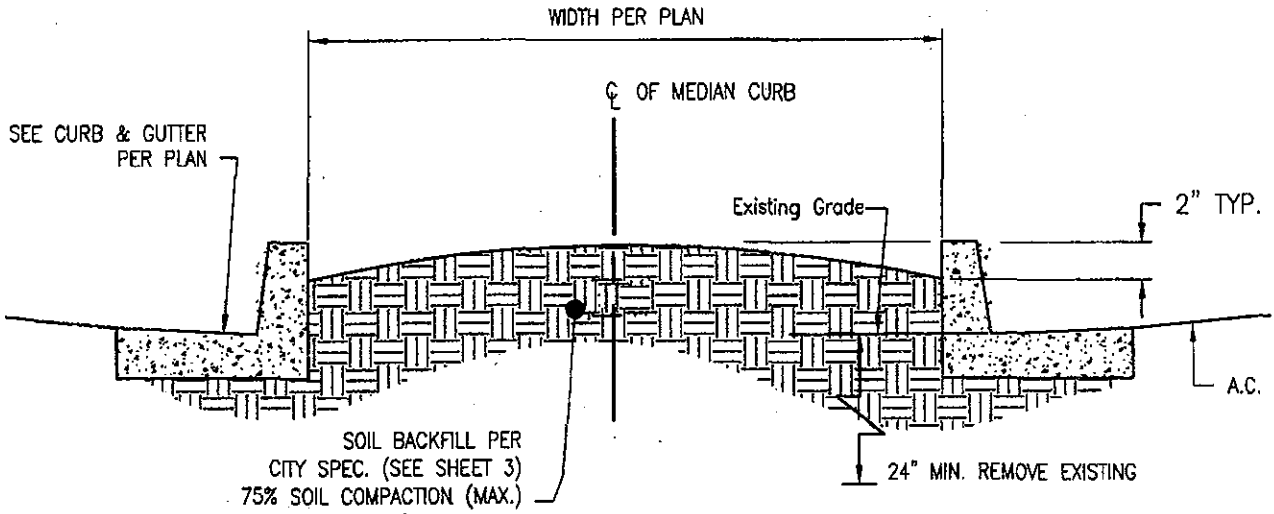
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(6-3-10)

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CITY OF  
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DEPARTMENT OF PUBLIC WORKS

TYPICAL STREET TREE  
OFFSET DISTANCES  
DIAGRAM

STANDARD PLAN NO.  
SV 50-20  
SHEET 1 OF 1



TYPICAL SECTION  
NOT TO SCALE

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CITY OF  
 SIMI VALLEY  
 DEPARTMENT OF PUBLIC WORKS

Median Landscape Design,  
 Soil Analysis &  
 Requirements

STANDARD PLAN NO.  
 SV 50-25  
 SHEET 1 OF 3

**NOTES:**

1. All work must conform to the City's Landscape Standards. All existing median soil shall be excavated and removed to a minimum depth of 24" below the existing grade and cleared of any trash, rocks and debris. Establish a 2% grade from center of median to curb.
2. All soil backfill must meet City's soil analysis specifications and testing requirements. All soils must be compacted to a minimum of 75 percent (see sheet 3).
3. Submit soil test results for City review prior to site delivery of soil mix.

**A. Parkways, Landscape Maintenance District No. 1 (LMD) & Other Sites:**

- \* Level and semi-level Open areas;  
One soil mix sample per 2,500 sq. ft. from an average depth of six to twenty-four inches. City Landscape Inspector must be present. The soil mix will be tested after amending per Horticultural Soil labs recommendations. Additional soil testing maybe required.
- \* Long narrow semi-level areas (Under 15' in width);  
One soil mix sample per 100 lineal feet.
- \* Slopes:  
One soil mix sample per direction of City Landscape Inspector.

**4. Irrigation:**

All irrigation materials, PVC piping solvent weld/procedures, and installation procedures must be approved by the City Landscape Inspector. Irrigation system and valves shall be presure tested in-place per City Standards. Adjust, relocate or add additional irrigation heads to provide satisfactory coverage.

**5. Plant Material:**

All plant material and planting locations must be approved by the City Landscape Inspector. Prior to planting, notify the Inspector to flag plant material locations to avoid potential visibility issues, irrigation coverage, and screening of utilities.

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6/18/10  
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CITY OF  
SIMI VALLEY

DEPARTMENT OF PUBLIC WORKS

Median Landscape Design,  
Soil Analysis &  
Requirements

STANDARD PLAN NO.


SV 50-25

SHEET 2 OF 3

\* SOIL LAB MUST TEST AND MAKE RECOMMENDATIONS TO MEET THE CITY OF SIMI VALLEY'S SOIL REQUIREMENTS.

SOIL	MISC
SAND SILT CLAY	Using the USDA soil textural triangle. The sand, silt and clay percentage must fall within the sandy loam criteria. Ideally at the following percentages, sand = 60%, silt = 30% & clay = 10%.
PARTICLE SIZE	99% TO PASS A 1/4" SCREEN.
PH	< 6.5 TO 6.8
EC	< 3.0
SAR	< 4
BORON	< 0.5 PPM
METALS TO MEET EPA 503 STANDARDS. FREE OF ALL CONTAMINANTS SUCH AS BUT NOT LIMITED TO GLASS, METAL, PLASTIC, PAPER, CONCRETE, ETC.	
<b>COMPOSTED ORGANIC MATERIALS</b>	
COMPOSTED ORGANIC RICE HULLS	> 50%
COMPOSTED WOODS AND BARK	VARIABLE
COMPOSTED MANURES	VARIABLE
DRY WEIGHT	450# TO 550# CUBIC YARD
PERCENT ORGANIC (BASED ON DRY WEIGHT)	70% TO 80%
PERCENT TKN (TOTAL N)	>1%
PH	< 7.5
EC	< 4
C:N (CARBON: NITROGEN)	< 45:1
PARTICLE SIZE DISTRIBUTION	95% PASSING 1/4" SCREEN
HEAVY METALS TO MEET EPA RULES CFR 40 PART 503 STANDARD	
FREE OF ALL CONTAMINANTS SUCH AS BUT NOT LIMITED TO GLASS, METAL, PLASTIC, PAPER, CONCRETE, ETC	
ANALYZED FOR ALL KNOWN PATHOGENS	
MEETS ALL EPA REQUIREMENTS OF RULE 40 CFR PART 503 CLASS 'A' EXCEPTIONAL QUALITY COMPOST	
<b>BACKFILL SOIL MIX</b>	
APPROVED SOIL (From natural top soil source)	75% TO 65%
APPROVED COMPOST	25% TO 35%
PH	6.5 TO 7.2
EC	< 3
SAR	< 4
BIOASSAY TO INSURE GROWTH RESPONSE TO SEED TRAIL. TRAIL TO BE PREFORMED WITH 6 REPLICATIONS USING RADISH SEEDS. ALL SOILS MUST BE COMPACTED TO 75 PERCENT.	> 90% GERMINATION RATE

KLDD-647 KELLOGG PRODUCTS SOIL BACKFILL SPECIFICATIONS

APPROVED:  DIRECTOR OF PUBLIC WORKS 6/18/10 DATE	<b>CITY OF SIMI VALLEY</b> DEPARTMENT OF PUBLIC WORKS	<b>Median Landscape Design, Soil Analysis &amp; Requirements</b>	STANDARD PLAN NO. <b>SV 50-25</b> SHEET 3 OF 3
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RUBBER TREE TIE,  
2 SETS OF 2, EACH SET  
SECURED WITH GALVANIZED NAILS,  
FIGURE-EIGHT STYLE,  
TOP AND BOTTOM PORTIONS  
OF TREE, (SEE SHT. 2 FOR DETAILS)

2" DIA. x 8' MIN. LODGE POLE  
PINE STAKE (OR EQUAL) TWO REQUIRED.  
STAKES TREATED WITH ACQ OR CA-B TREATED  
FOR A MINIMUM OF 3 YEARS LONGEVITY  
4 REQ'D PER PLANT

ARBOR GUARD TREE  
TRUNK PROTECTOR  
BY DEEP ROOT CORP AG 9-4

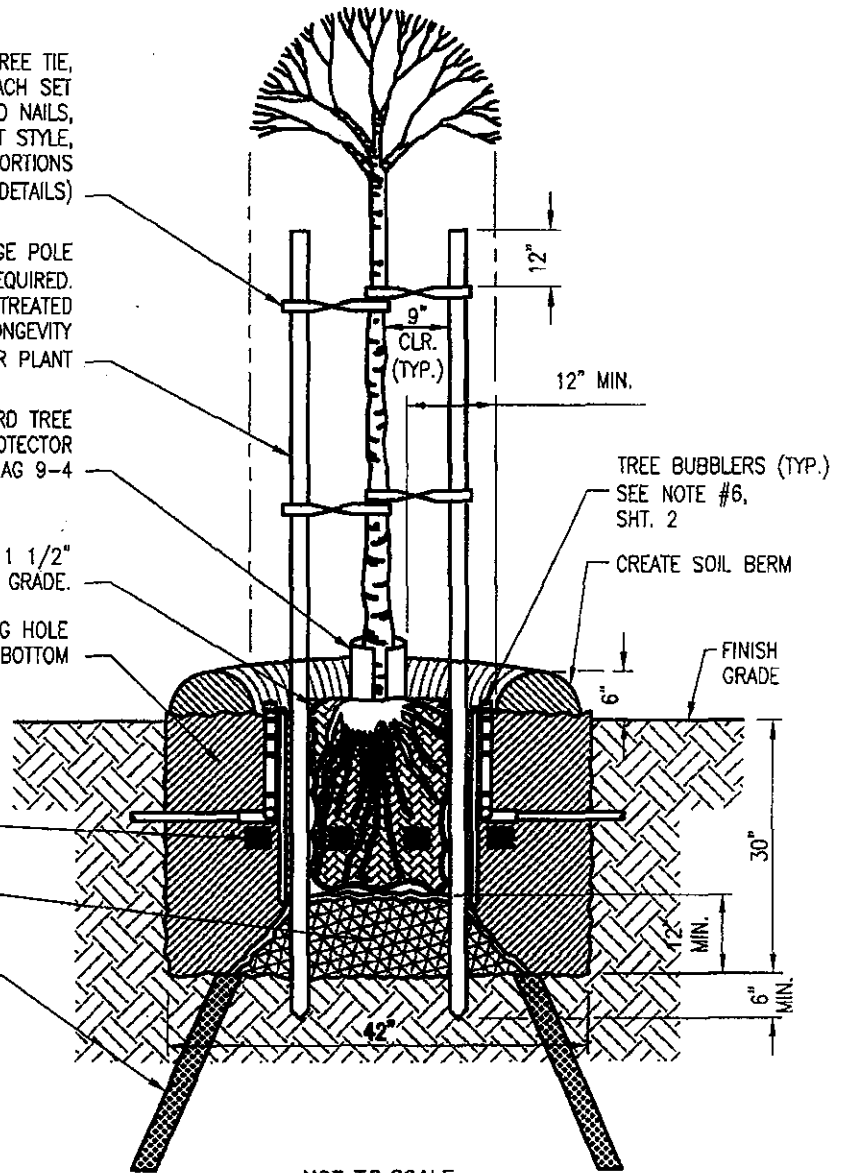
SET ROOT BALL 1" TO 1 1/2"  
ABOVE GRADE.

PLANTING HOLE  
SCARIFY ALL SIDES AND BOTTOM

SLOW RELEASE FERTILIZER OR TABLETS  
PER MANUFACTURE RECOMMENDATIONS.  
EXAMPLE: 21-10-5

COMPACT SOIL TO ROOT BALL  
DEPTH PRIOR TO PLANTING

3" DIA. x 3' DEEP MULCH HOLES,  
FOUR REQUIRED, ONE EACH CORNER



NOT TO SCALE

6-3-10

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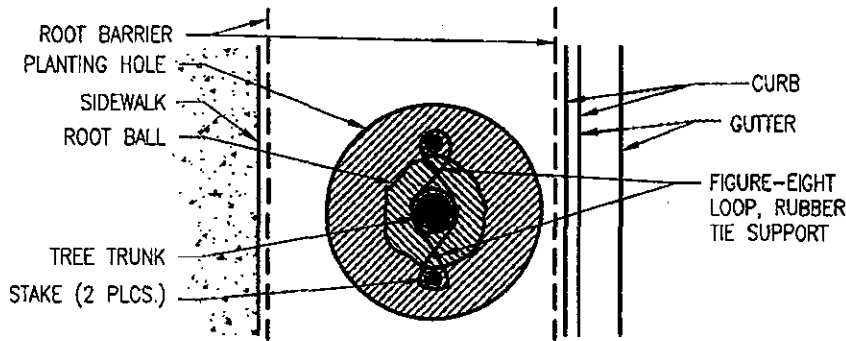
15 GALLON STREET TREE  
PARKWAY PLANTING  
AND STAKING DETAIL

STANDARD PLAN NO.  
SV 51-10  
SHEET 1 OF 2



**NOTES:**

1. WATER WELL MUST ACCOMMODATE MIN. OF 20 GALLONS OF WATER. FILL WATER WELL TWO TIMES IMMEDIATELY AFTER PLANTING. WATER ONCE PER WEEK DURING COOLER MONTHS, TWICE PER WEEK DURING WARMER MONTHS, OR AS DIRECTED BY CITY OF SIMI VALLEY LANDSCAPE INSPECTOR.
2. THE CITY MAY REQUIRE ROOT BARRIER. USE DEEP ROOT CORP, NDS OR BIO-BARRIER ROOT BARRIER IN 10 FOOT LENGTHS. IF DEEP ROOT CORP BARRIER IS REQUIRED, USE UB 18-2 ON SIDEWALK AND UB 24-2 ON CURB/SIDE. BARRIERS SHALL BE INSTALLED PER CITY OF SIMI VALLEY SPECIFICATIONS (SV 51-60).
3. NO TURF OR GROUND COVER WITHIN THE BASIN.
4. JUTE NETTING OR EQUAL SHALL BE USED ON SLOPES 2 TO 1 OR GREATER ON ALL TREES 15 GAL. OR LARGER. ON SLOPES, JUTE WILL BE INSTALLED A MIN. OF 24 INCHES OUTSIDE OF PLANTING HOLE.
5. BACKFILL SOIL MIX SHALL CONSIST OF 1/3 NATURAL SOIL AND 2/3 NITROGENIZED ORGANIC AMENDMENT AND A SIMPLOT APEX FERTILIZER 14-14-14 AT 1/4 CUP PER 1 INCH OF TREE TRUNK CALIBER AND BE MIXED THOROUGHLY INTO BACK FILL MIX. MIX MUST BE APPROVED BY CITY OF SIMI VALLEY LANDSCAPE INSPECTOR.
6. INSTALL BUBBLERS PER PLATE SV 51-90 AS DIRECTED BY CITY OF SIMI VALLEY LANDSCAPE INSPECTOR. BUBBLERS NEED TO BE 12 INCHES OUTSIDE ROOT BALL.
7. ASSURE TREE ROOT BALL IS CENTERED IN PLANTING PIT.



**RUBBER TIE-PLAN VIEW**

NOT TO SCALE

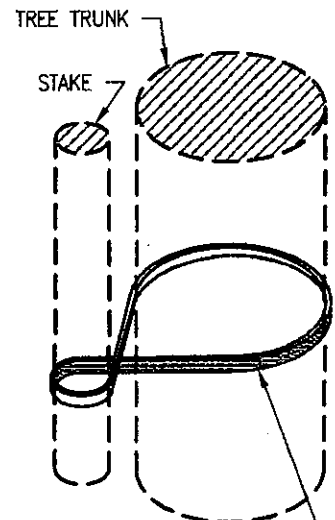


FIGURE-EIGHT LOOP, RUBBER TIE SUPPORT (SHOWING ONE TIE ONLY) KEEP TREE STRAIGHT, BUT TIES AS LOOSE AS POSSIBLE.

**RUBBER TIE-ISO VIEW**

NOT TO SCALE

(6/3/10)

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 6/18/10  
 DATE

CITY OF  
 SIMI VALLEY  
 DEPARTMENT OF PUBLIC WORKS

15 GALLON STREET TREE  
 PARKWAY PLANTING  
 AND STAKING DETAIL

STANDARD PLAN NO.  
 SV 51-10  
 SHEET 2 OF 2

RUBBER TREE TIE,  
2 SETS OF 4, EACH SET  
SECURED WITH GALVANIZED NAILS,  
FIGURE-EIGHT STYLE,  
TOP AND BOTTOM PORTIONS  
OF TREE (SEE SHT. 2 FOR DETAILS)

3" DIA. x 10' MIN. LODGE POLE  
PINE STAKE (OR EQUAL) FOUR REQUIRED.  
STAKES TREATED WITH ACQ OR CA-B  
FOR A MINIMUM OF 3 YEARS LONGEVITY  
4 REQ'D PER PLANT

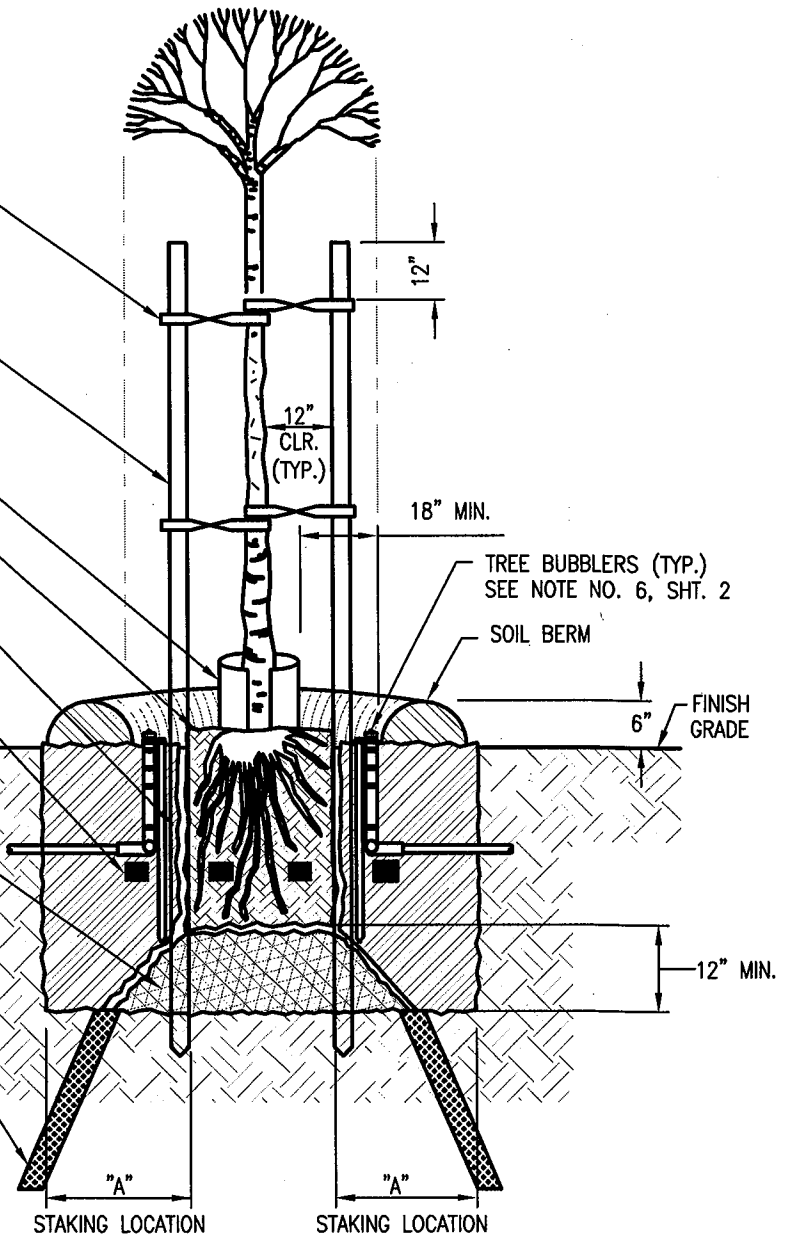
DEEP ROOT CORP ARBOR GUARD  
TREE TRUNK PROTECTOR, AG 9-4, OR EQUAL

SET ROOT BALL 2" TO 2 1/2" ABOVE GRADE

SCARIFY ALL SIDES AND BOTTOM  
OF PIT AND ROOT BALL  
SLOW RELEASE FERTILIZER OR TABLETS  
PER MANUFACTURE RECOMMENDATIONS.  
EXAMPLE: 21-10-5

SOIL COMPACTED TO ROOT BALL DEPTH  
PRIOR TO PLANTING

3" DIA. x 3' DEEP MULCH HOLES,  
LOCATE IN EACH CORNER,  
4 REQ'D PER PLANT



STAKING LOCATIONS	
"A"	BOX SIZE
12"	24"
18"	36"
24"	48"

NOT TO SCALE

FOR LARGER BOX SIZES,  
CONTACT DEPT. OF PUBLIC WORKS/MAINTENANCE

7/19/13

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7/19/13  
(DATE)

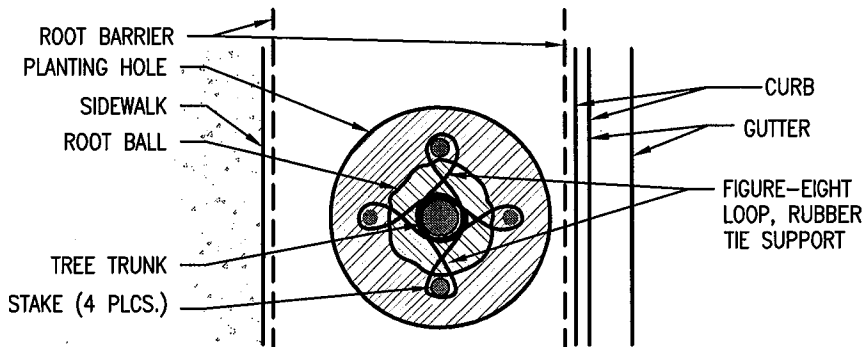
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DEPARTMENT OF PUBLIC WORKS

**BOXED TREE PLANTING,  
STAKING & GUYING DETAIL  
FOR 24" BOX OR LARGER**

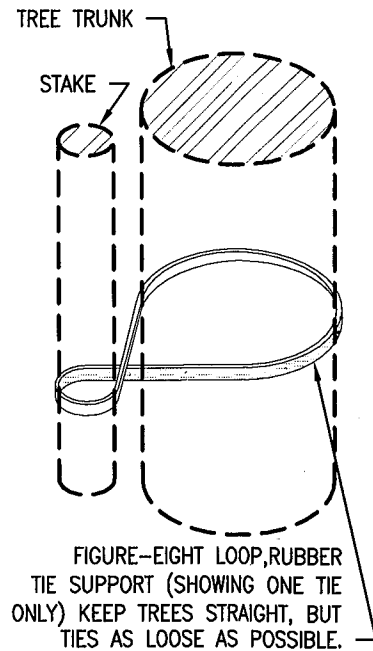
STANDARD PLAN NO.  
**SV 51-20**  
SHEET 1 OF 2

**NOTES:**

1. WATER WELL MUST ACCOMMODATE MIN. OF 30 GALLONS OF WATER. FILL WATER WELL TWO TIMES IMMEDIATELY AFTER PLANTING. WATER ONCE PER WEEK DURING COOLER MONTHS, TWICE PER WEEK DURING WARMER MONTHS, OR AS DIRECTED BY CITY OF SIMI VALLEY LANDSCAPE INSPECTOR.
2. COMPACTED SOIL MIX SHALL CONSIST OF 1/3 NATURAL SOIL AND 2/3 OF NITROGENIZED ORGANIC AMENDMENT (SUCH AS RICE OR RWD) AND A SIMPLOT APEX FERTILIZER 14-14-14 AT 1/4 CUP PER 1 INCH OF TREE TRUNK CALIBER AND BE MIXED THOROUGHLY INTO BACK FILL MIX.
3. CITY STANDARD IS FOR INSTALLATION OF FOUR 3 INCHES x 10 FEET 0.040 ACQ OR ACC TREATED LODGE POLE STAKES WHERE GUY WIRES SHOULD NOT BE USED.
4. THE CITY MAY REQUIRE ROOT BARRIER. USE DEEP ROOT CORP, NDS OR BIO-BARRIER ROOT BARRIER IN 10 FOOT LENGTHS. IF DEEP ROOT CORP BARRIER IS REQUIRED USE UB 18-2 ON SIDEWALK AND UB 24-2 ON CURB/SIDE. BARRIER SHALL BE INSTALLED PER CITY SPECIFICATIONS.
5. JUTE NETTING OR EQUAL WILL BE USED ON ALL SLOPES 2 TO 1 OR GREATER ON ALL TREES 15 GAL. OR LARGER. ON SLOPES JUTE WILL BE INSTALLED A MIN. OF 24 INCHES OUTSIDE PLANTING HOLE.
6. INSTALL BUBBLERS PER PLATE SV 51-90 AS DIRECTED BY CITY OF SIMI VALLEY LANDSCAPE INSPECTOR. BUBBLERS NEED TO BE 12 INCHES OUTSIDE ROOT BALL.
7. ASSURE TREE ROOT BALL IS CENTERED IN PLANTING PIT.
8. CITY MAY REQUIRE DUCKBILL OR ARBORBRACE TREE SUPPORT IN PLACE OF TREE STAKES.



**RUBBER TIE-PLAN VIEW**  
NOT TO SCALE



**RUBBER TIE-ISO VIEW**  
NOT TO SCALE

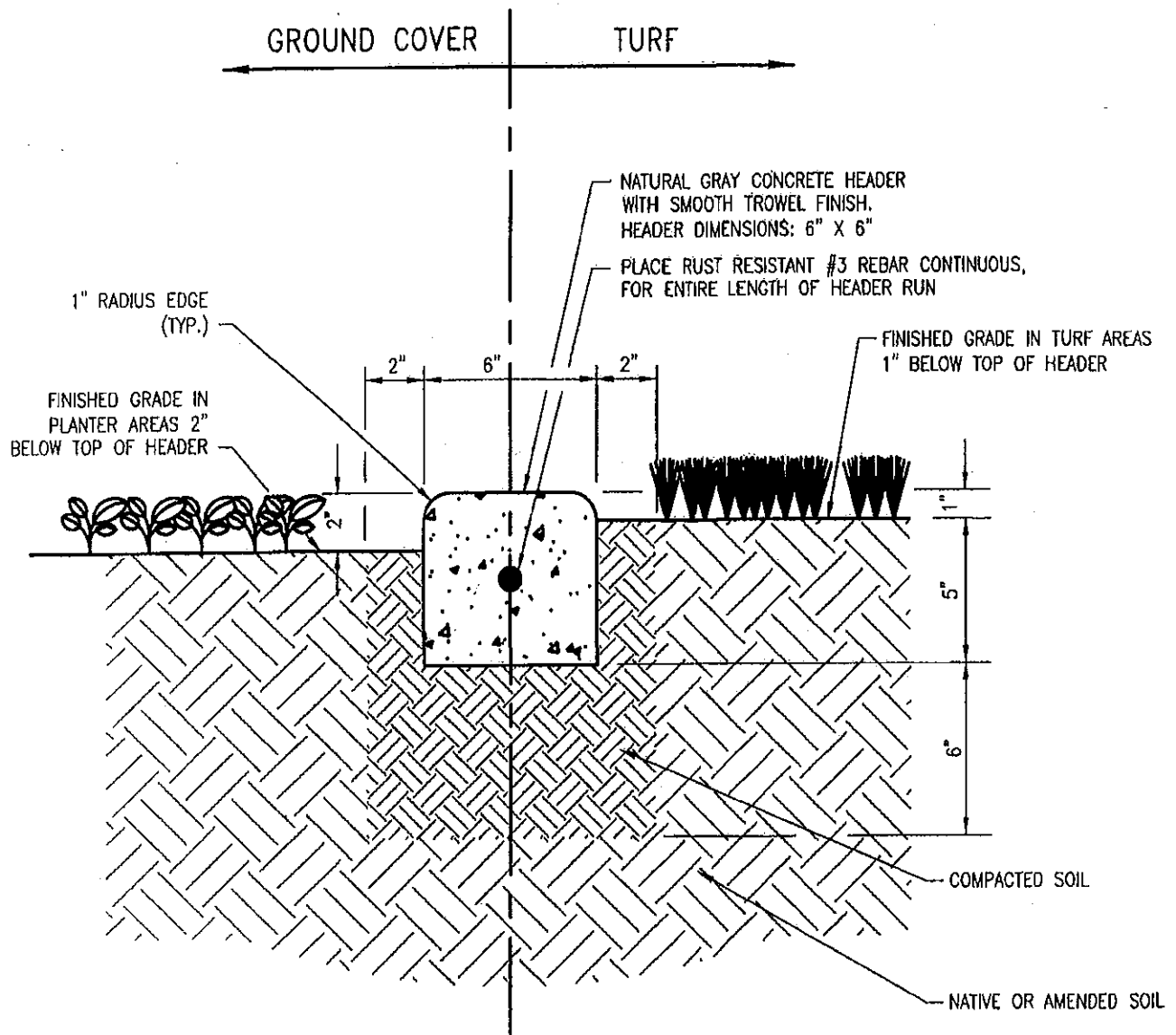
7/19/13

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7/19/13  
DATE

**CITY OF  
SIMI VALLEY**  
DEPARTMENT OF PUBLIC WORKS

**BOXED TREE PLANTING,  
STAKING & GUYING DETAIL  
FOR 24" BOX OR LARGER**

STANDARD PLAN NO.  
**SV 51-20**  
SHEET 2 OF 2

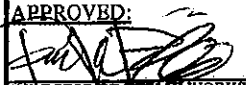


NOT TO SCALE

**NOTES:**

1. EXPANSION JOINTS SHALL BE INSTALLED AT EQUAL INTERVALS OF 10 FEET MAX. ALONG THE ENTIRE LENGTH OF THE HEADER.
2. IF A CONCRETE HEADER MACHINE IS USED, SPECIAL INSTRUCTIONS FROM CITY OF SIMI VALLEY LANDSCAPE INSPECTOR SHALL BE REQUIRED PRIOR TO START OF CONSTRUCTION.

(8-9-05)

APPROVED:  
  
 DIRECTOR OF PUBLIC WORKS  
 10/25/08  
 DATE

**CITY OF  
 SIMI VALLEY**

---

DEPARTMENT OF PUBLIC WORKS

**CONCRETE HEADER  
 / MOW CURB**

STANDARD PLAN NO.  
**SV 51-40**  
 SHEET 1 OF 1

LOOSELY TIE THE 4 TO 6 NEWEST PALM LEAVES WITH 1/4" STRANDED MANILA STRING TIES FOR APPROXIMATELY 3 MONTHS (REMOVE STRING AFTER 3 MONTHS).

SKIN TRUNK TO WITHIN 5' OF FRONDS

ROOT BALL

BACKFILL WITH SANDY LOAM SOIL AND SATURATE (SEE NOTE NO. 2, HEREON)

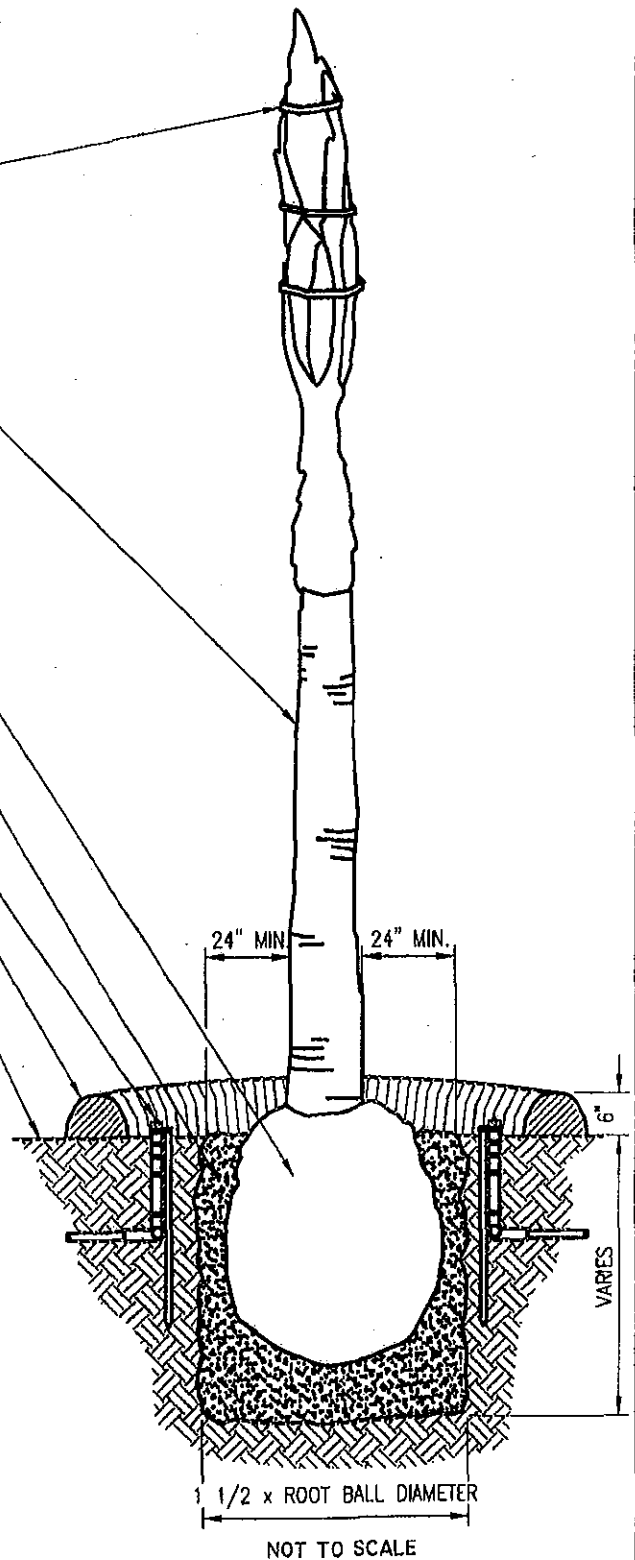
TREE BUBBLERS (TYP.)  
SEE NOTE NO.7, HEREON


SOIL BERM

FINISH GRADE

**NOTES:**

1. PALMS 5 FEET BROWN TRUNK HEIGHT AND OVER ARE TO BE PLANTED WITH ROOT BALL 1 1/2 INCHES ABOVE FINISH GRADE.
2. SATURATE COMPACTED BACKFILL MIX MAKING SURE NO AIR POCKETS ARE LEFT IN PLANTING HOLE. MIX WITH PALM MIX SLOW RELEASE FERTILIZER AND SUPER-THRIVE (MAXIMUM MANUFACTURE RATES).
3. APPROVED SUPPORT SYSTEM MAY BE REQUIRED PRIOR TO PLANTING FOR PALMS WITH A OVERALL HEIGHT OF '20' OR MORE.
4. THE OUTER EDGE OF ROOT BALL MUST BE A MINIMUM OF 24 INCHES FROM TRUNK AND 36 INCHES BELOW BROWN TRUNK ON PALMS 5 FEET AND ABOVE IN HEIGHT.
5. TREE SHALL BE PLANTED IN A VERTICAL POSITION (NO LEAN IN ANY DIRECTION).
6. ESTABLISH SCHEDULE FOR CHECKING EACH PALM AND DETERMINING WATERING NEEDS.
7. INSTALL BUBBLERS PER PLATE SV 51-90 AND AS DIRECTED BY CITY OF SIMI VALLEY LANDSCAPE INSPECTOR. BUBBLERS NEED TO BE 12 INCHES OUTSIDE ROOT BALL.

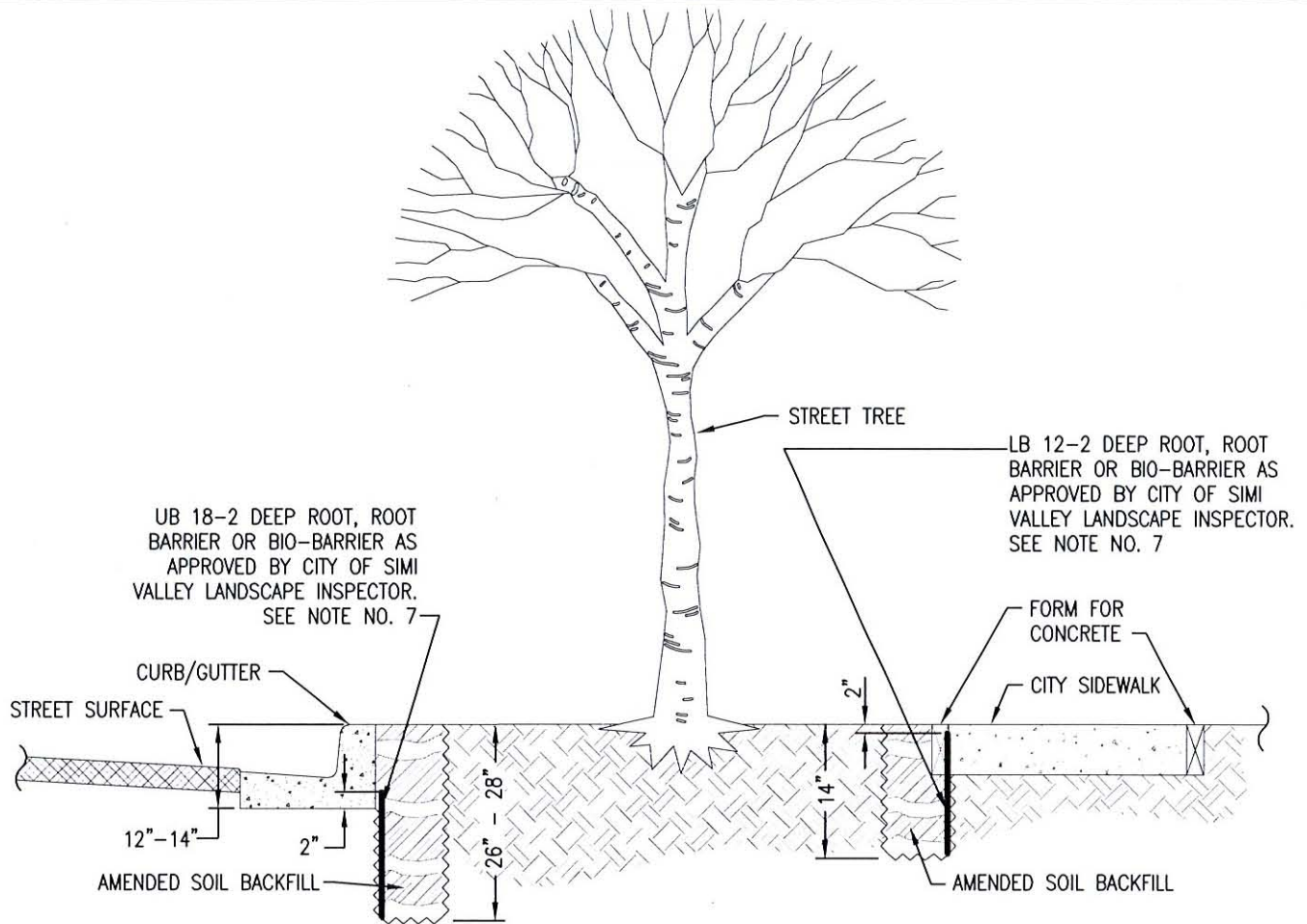


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02/10/08  
DATE

CITY OF  
SIMI VALLEY  
DEPARTMENT OF PUBLIC WORKS

PALM TREE  
PLANTING DETAIL

STANDARD PLAN NO.  
SV 51-50  
SHEET 1 OF 1



NOT TO SCALE

USE THIS APPLICATION ALSO FOR ROOT PRUNING AT CURBS OR FOR PRIVATE PROPERTY SIDE OF SIDEWALK. CURB AND GUTTER MUST BE REMOVED PRIOR TO ROOT PRUNING AT CURB TO ACHIEVE 18 INCHES BARRIER DEPTH: A RAMP MAYBE REQUIRED TO PROVIDE A NEAR LEVEL WORK PLATFORM FOR ROOT PRUNER.

**NOTES:**

1. ALL ROOT PRUNING RELATED WORK SHALL BE COORDINATED IN ADVANCE WITH THE CITY OF SIMI VALLEY LANDSCAPE INSPECTOR.
2. KEEP WIDTH OF ROOT BARRIER TRENCH TO A MINIMUM (3 INCHES OR 4 INCHES)
3. ROOT PRUNE AGAINST WALK PRIOR TO WALK REMOVAL. HAND ROOT PRUNE IF MACHINE WILL NOT BE USED. ALWAYS LEAVE A SMOOTH CUT AND DO NOT TEAR ROOT BARK. CUT ROOTS VERTICALLY.
4. COVER CUT ROOTS IMMEDIATELY WITH MOIST SOIL AND MAINTAIN MOISTURE THROUGHOUT REPAIR PROJECT.
5. USE LB 12-2 DEEP ROOT, ROOT BARRIER FOR SIDEWALK SIDE APPLICATIONS. USE UB 18-2 DEEP ROOT, ROOT BARRIER FOR CURB SIDE APPLICATIONS. **WITH APPROVAL**, BIO-BARRIER CAN BE USED FOR EITHER CURB/GUTTER OR SIDEWALK.
6. REMOVE CONCRETE SIDEWALK AND PLACE FORMS FOR NEW CONCRETE.
7. FORM NEW SIDEWALK AND CURB AREA AND INSTALL 10 FEET OF ROOT BARRIER, CENTERED ON TREE AND HOLD 2 INCH BELOW TOP OF FORM. ROOT BARRIER LENGTH AND LOCATION MAY BE ALTERED BY CITY OF SIMI VALLEY LANDSCAPE INSPECTOR ON A CASE BY CASE BASIS. TACK ROOT BARRIER TO CONCRETE SIDE OF THE FORM, USE ONLY TWO OR THREE NO. 14 TACKS PER EACH 2 FEET ROOT BARRIER PANEL. KEEP ROOT PANEL LEVEL, PLUMB AND TIGHT TO THE FORM. MAKE SURE ROOT BARRIER IS PLACED CORRECTLY, I.E. TOP IS UP WITH RIBS TOWARD TREE. IF BARRIER IS BEING PLACED WITHOUT NEW WALK, PLACE BARRIER WITHIN 1 INCH OF GRADE.

2/12/13

APPROVED:

*[Signature]*  
 DIRECTOR OF PUBLIC WORKS  
 2/12/13  
 DATE

**CITY OF  
 SIMI VALLEY**  
 DEPARTMENT OF PUBLIC WORKS

**ROOT BARRIER  
 INSTALLATION  
 WITH NEW CONCRETE**

STANDARD PLAN NO.

**SV 51-60**

SHEET 1 OF 2

NOTES (CONTINUED):

8. IMMEDIATELY BACKFILL WITH 50% NATIVE SOIL AND 50% CLEAN WASHED HORTICULTURAL SAND. GRADE AND WATER THE SOIL TO AID SETTLEMENT. REGRADE AS NECESSARY.
9. PREPARE SIDEWALK AREA AND PLACE NEW CONCRETE.
10. REPAIR ALL DAMAGED UTILITIES AND SET IRRIGATION HEADS TO PROPER GRADE, SAME DAY CUT IS MADE.
11. UPON COMPLETION OF ROOT PRUNING, THE CITY'S TREE STABILITY TEST MUST BE IMMEDIATELY PERFORMED. SEE SPECIFICATIONS FOR PROCEDURE.
12. ONLY ONE SIDE OF THE TREE CAN BE ROOT PRUNED.

2/12/13

APPROVED:

  
DIRECTOR OF PUBLIC WORKS

2/12/13  
DATE

**CITY OF  
SIMI VALLEY**

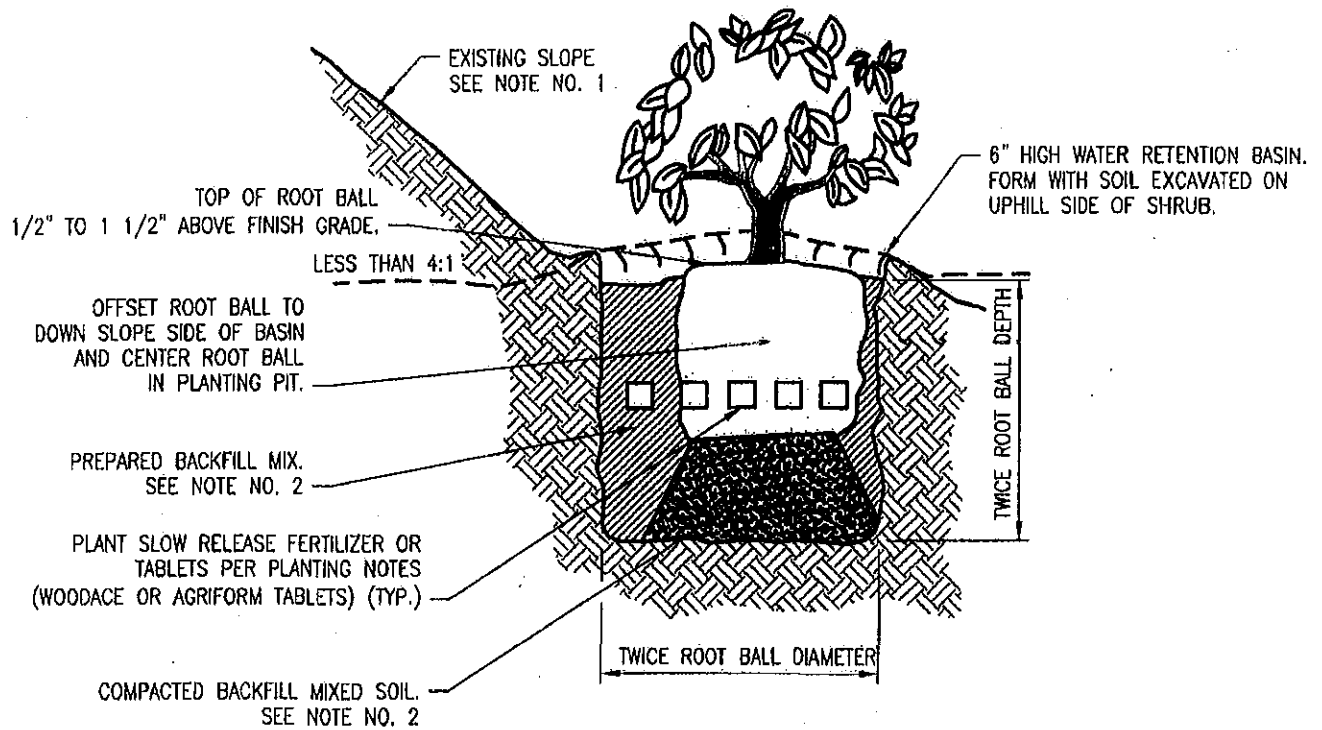
DEPARTMENT OF PUBLIC WORKS

**ROOT BARRIER  
INSTALLATION  
WITH NEW CONCRETE**

STANDARD PLAN NO.

**SV 51-60**

SHEET 2 OF 2

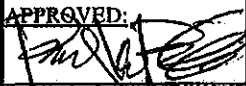


NOT TO SCALE

**NOTES:**

1. JUTE NETTING OR EQUAL SHALL BE USED ON ALL SLOPES 2 TO 1 OR GREATER ON ALL PLANTS 5 GALS. OR LARGER. JUTE WILL BE LARGER THAN PLANTING HOLE.
2. BACKFILL MIX SHALL CONSIST OF 1/3 EXCAVATED SOIL, 1/3 NITROGENIZED WOOD SHAVINGS, 1/3 PLANTER MIX WITH RICE HULLS AND 1LB ACTUAL SLOW RELEASE BALANCED FERTILIZER I.E.: 10(N)-10(P)-10(K)+MICRO NUTRIENTS PER CU FT OF BACKFILL MIX.

(8-11-05)

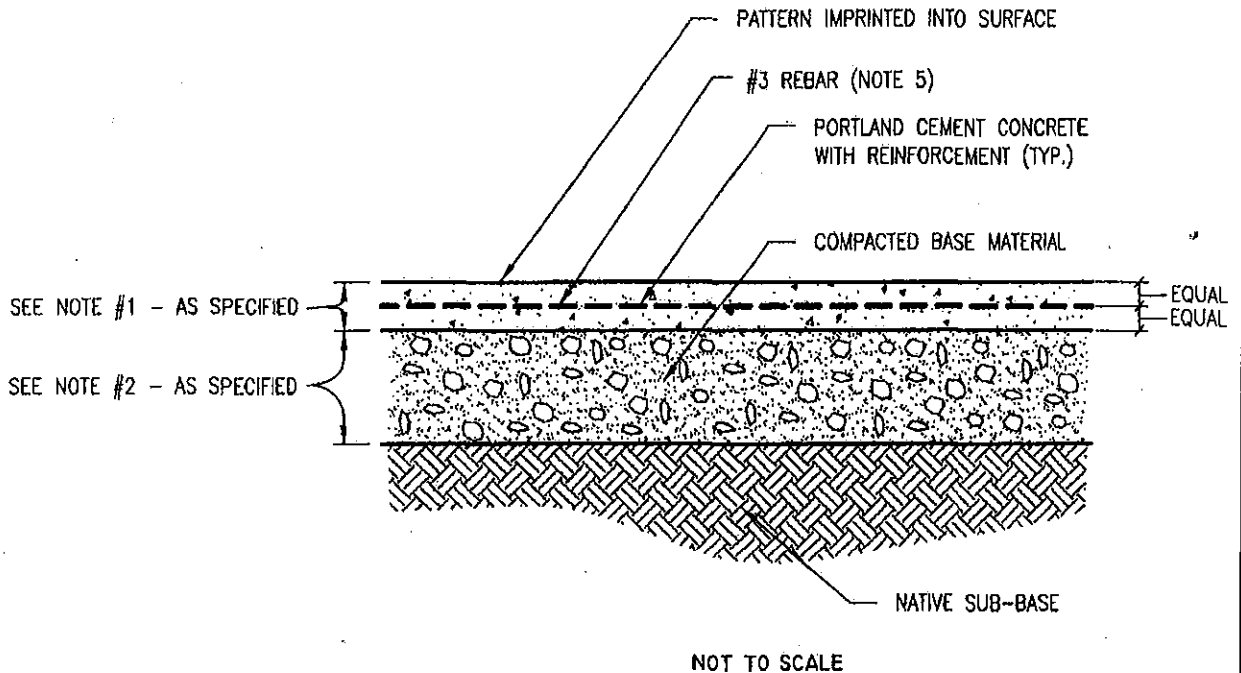
APPROVED:  
  
 DIRECTOR OF PUBLIC WORKS  
 10/22/08  
 DATE

CITY OF  
 SIMI VALLEY  
 DEPARTMENT OF PUBLIC WORKS

SHRUB PLANTING  
 DETAIL

STANDARD PLAN NO.  
 SV 51-70  
 SHEET 1 OF 1




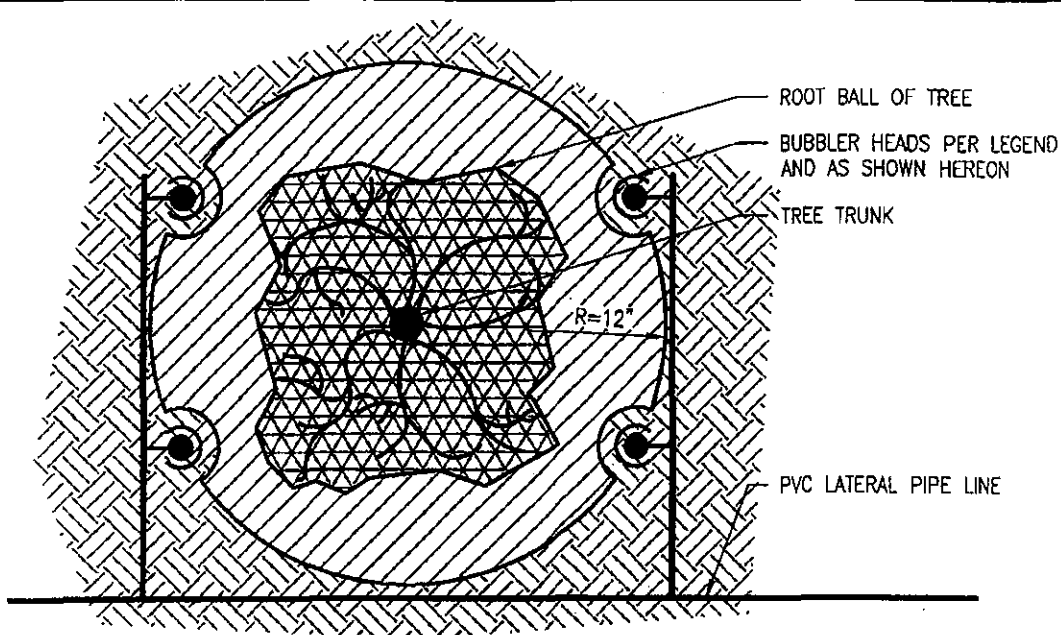


**NOTES:**

1. THE THICKNESS OF PORTLAND CEMENT CONCRETE SHALL BE NO LESS THAN 3 1/2 INCHES.
2. A COMPACTED, FREE DRAINING BASE MATERIAL IS TYPICALLY REQUIRED. THE THICKNESS OF THE BASE MATERIAL SECTION AND THE COMPACTION REQUIREMENTS VARY DEPENDING ON THE ANTICIPATED LOADING AND USE. PLEASE CONSULT CITY ENGINEER FOR RECOMMENDATIONS.
3. THE COLOR AND STAMP PATTERN OF CONCRETE SHALL BE AS FOLLOWS:
  - A) COLOR ADDITIVE TO BE THOROUGHLY BLENDED INTO CONCRETE MIX FOR AN UNIFORM (HOMOGENEOUS) DISTRIBUTION OF COLOR.
  - B) COLOR: TERRA-COTTA, DAVIS COLORS, (800)356-4848.
  - C) STAMP: RUNNING BOND BEAM/COBBLESTONE.
4. IN MEDIAN APPLICATIONS, MAINTAIN A 2% SLOPE FROM CENTER OF MEDIAN.
5. PLACE RUST FREE #3 REBAR, 8 INCHES APART ON CENTER, SUSPENDED IN MIDDLE OF CONCRETE, CONTINUOUS FOR ENTIRE LENGTH OF STAMPED CONCRETE RUN.
6. APPLY CONCRETE SEALER OVER STAMPED CONCRETE ACCORDING TO MANUFACTURER'S SPECIFICATION.

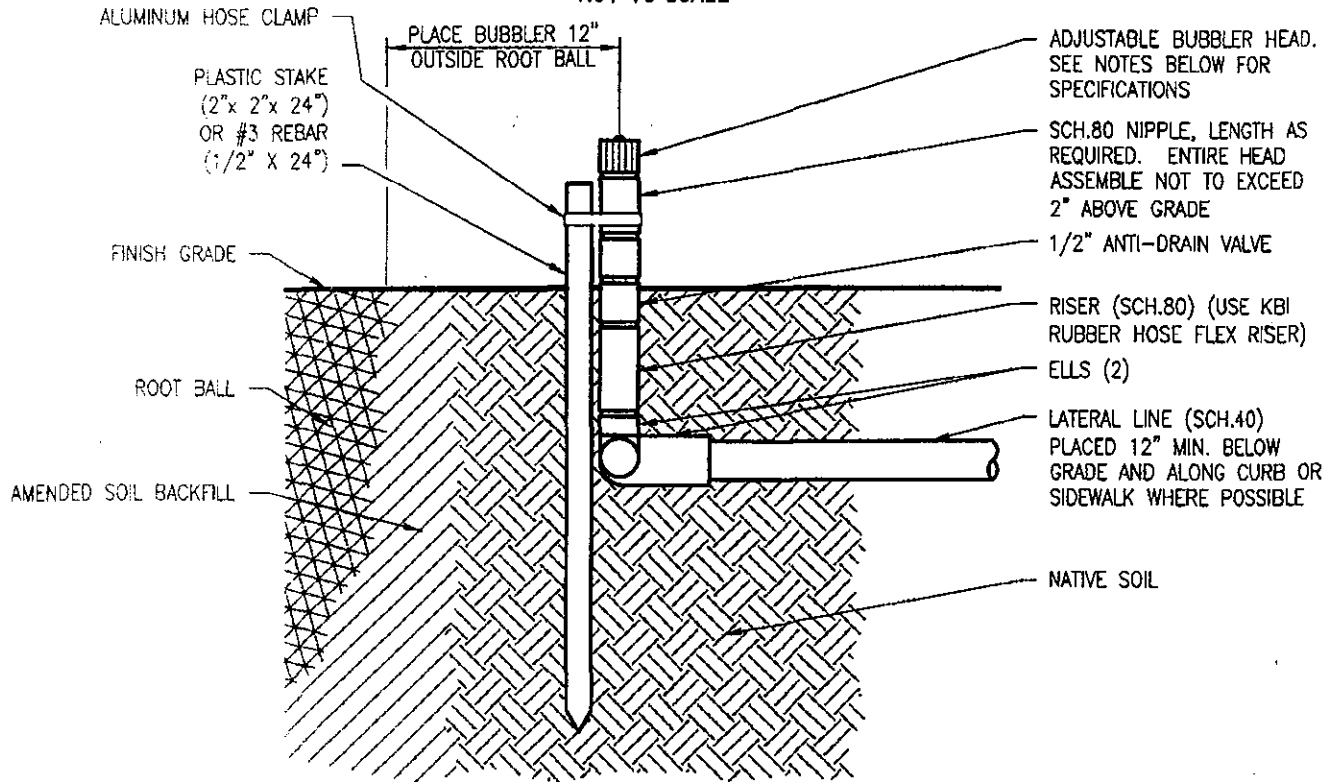
(3/6/07)

<p>APPROVED: </p> <p>DIRECTOR OF PUBLIC WORKS</p> <p>10/24/08</p> <p>DATE</p>	<p>CITY OF SIMI VALLEY</p> <p>DEPARTMENT OF PUBLIC WORKS</p>	<p>STAMPED CONCRETE DETAIL</p>	<p>STANDARD PLAN NO.</p> <p>SV 51-80</p> <p>SHEET 1 OF 1</p>
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**PLAN VIEW**

NOT TO SCALE



**SECTION VIEW**

NOT TO SCALE

**NOTE:**

- 1. PROVIDE BUBBLERS AS FOLLOWS:
  - 1 BUBBLER MIN. PER 15 GALLONS TREE
  - 2 BUBBLERS PER 24 INCHES AND 36 INCHES BOX TREE
  - 4 BUBBLERS PER 48 INCHES BOX AND LARGER TREE
  - FOR LARGER TREE QUANTITY OF BUBBLERS AS DIRECTED BY CITY OF SIMI VALLEY LANDSCAPE INSPECTOR.
  - ALL THREADED FITTINGS MUST HAVE TEFLON TAPE OR PIPE JOINT COMPOUND APPLIED PRIOR TO ASSEMBLY.

6/3/10

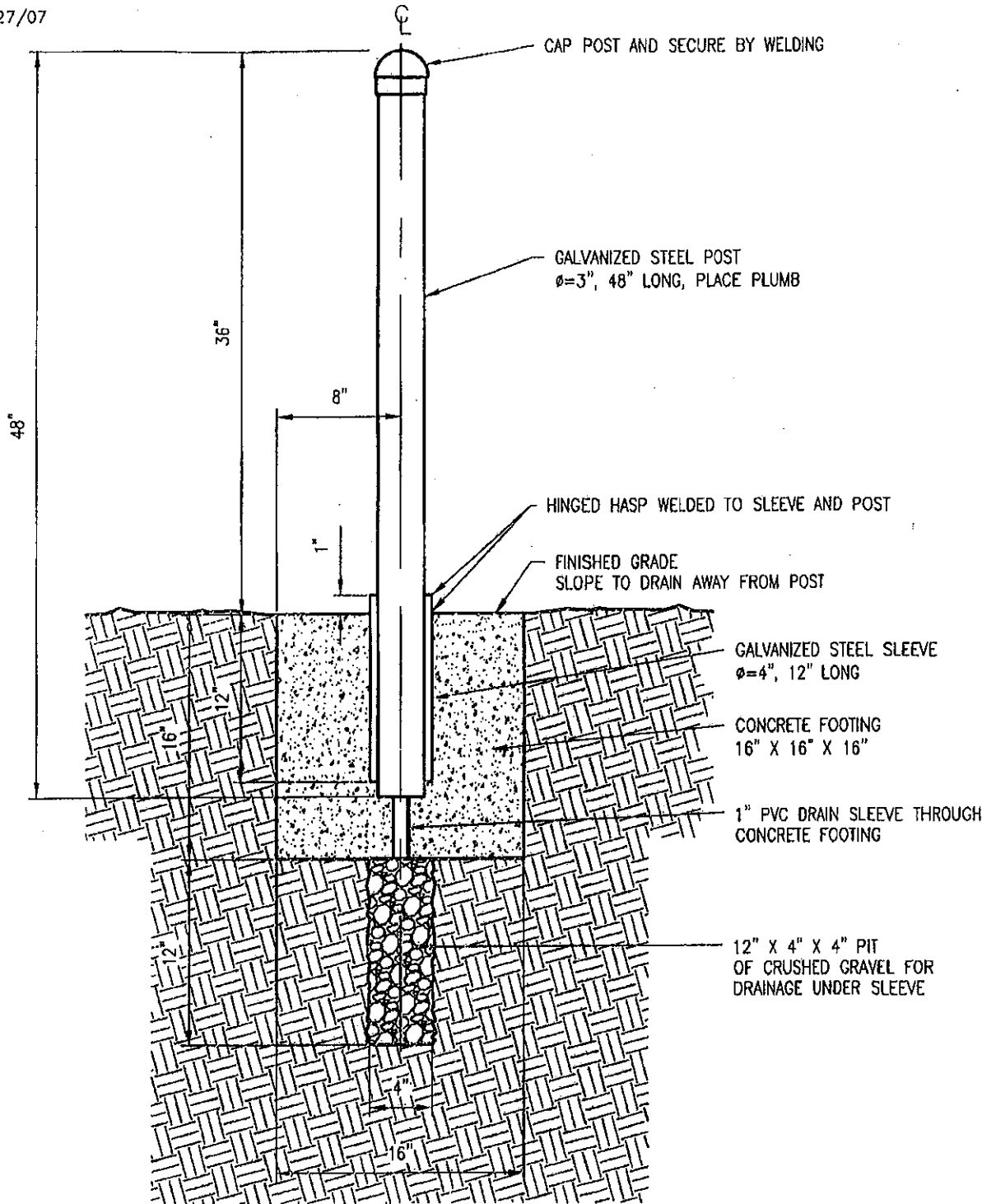
APPROVED:  
  
 DIRECTOR OF PUBLIC WORKS  
 6/18/10  
 DATE

CITY OF  
 SIMI VALLEY  
 DEPARTMENT OF PUBLIC WORKS

TREE BUBBLERS


STANDARD PLAN NO.  
 SV 51-90  
 SHEET 1 OF 1

EDITED 12/27/07



**NOTES:**

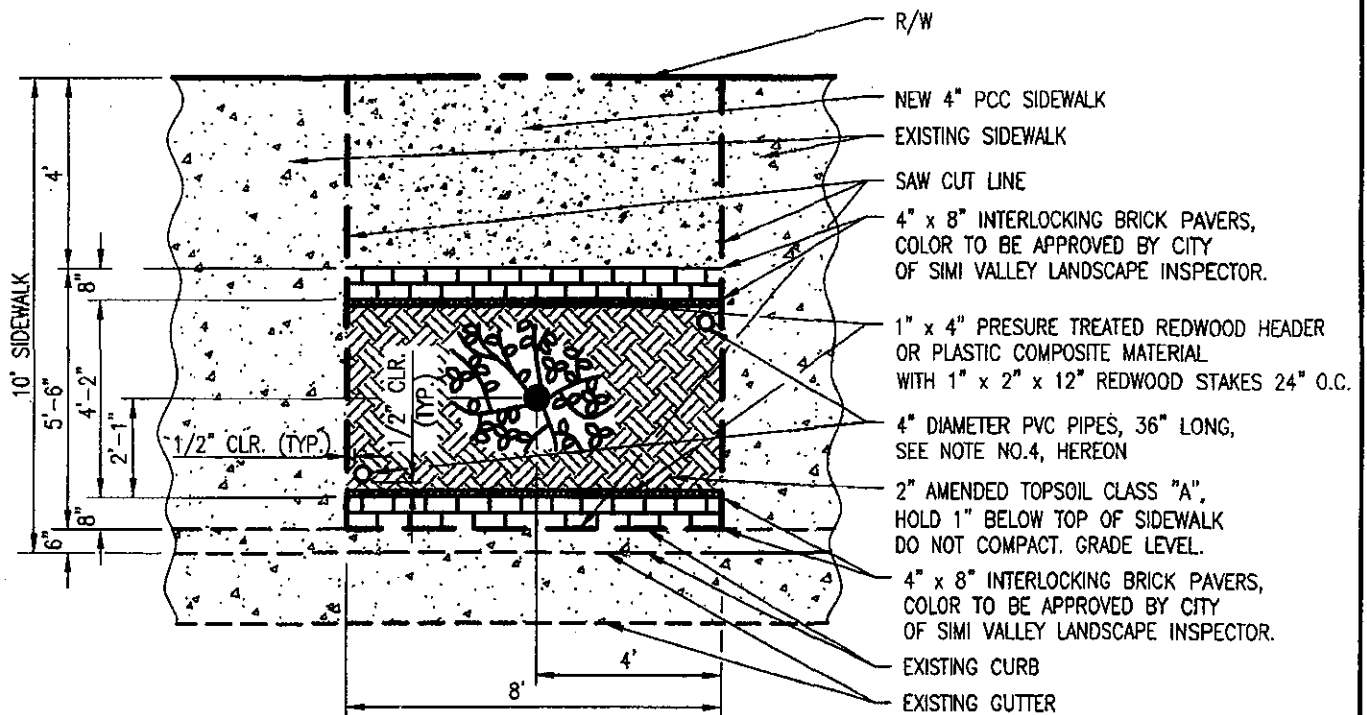
1. PAINT POST AS DIRECTED BY LANDSCAPE INSPECTOR.
2. VERTICALLY PLACE (4) STRIPS OF 1" WIDE x 24" LONG APPROVED EXTERIOR RED REFLECTION TAPE MADE BY 3M OR EQUAL ON THE INSTALLED POST.

APPROVED:  
  
 DIRECTOR OF PUBLIC WORKS  
 10/21/08  
 DATE

CITY OF  
 SIMI VALLEY  
 DEPARTMENT OF PUBLIC WORKS

REMOVABLE  
 GUARD POST DETAIL

STANDARD PLAN NO.  
 SV 51-100  
 SHBET 1 OF 1




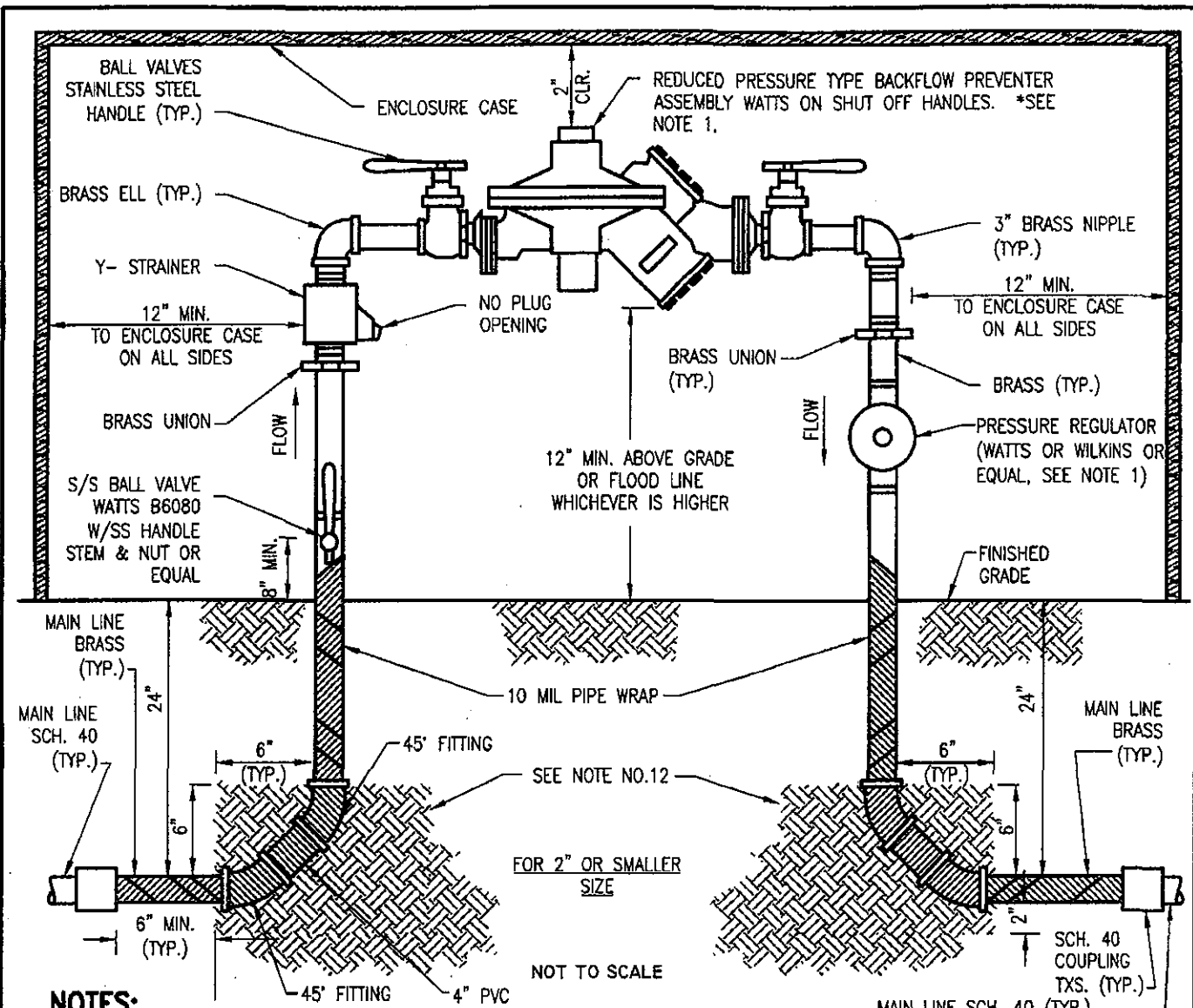
NOT TO SCALE

**NOTES:**

1. FOR NEW CONSTRUCTION SITE PLACE UNDER SIDEWALK 24 INCHES LAYER OF 3/4-INCH WASHED GRAVEL.  
FOR EXISTING SIDEWALK CONSTRUCTION SITE: CONTACT CITY OF SIMI VALLEY LANDSCAPE INSPECTOR FOR INSTRUCTIONS.
2. PLACE BRICK PAVERS LEVEL WITH SURROUNDING SURFACE IN A RUNNING BOND BEAM PATTERN ON 2 INCHES WASHED SAND BASE COMPACTED TO 90%.
3. FOR SIDEWALKS/PARKWAYS LESS THAN 10 FEET WIDE, MAINTAIN 4 FEET MINIMUM WIDTH OF PCC SIDEWALK AND CONSULT CITY OF SIMI VALLEY LANDSCAPE INSPECTOR.
4. 4 INCHES DIAMETER PERFORATED PVC PIPE FILLED WITH 3/4-INCH WASHED GRAVEL SHALL BE USED FOR DRAINS. TOP OF PIPE SHALL BE AT SOIL GRADE.

(6/3/10)


<p>APPROVED:            DIRECTOR OF PUBLIC WORKS          6/18/10          DATE</p>	<p style="text-align: center;">CITY OF SIMI VALLEY</p> <hr/> <p style="text-align: center;">DEPARTMENT OF PUBLIC WORKS</p>	<p style="text-align: center; font-size: 24pt; font-weight: bold;">TREE WELL</p>	<p>STANDARD PLAN NO. SV 51-110</p> <p style="text-align: right;">SHEET 1 OF 1</p>
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**NOTES:**

1. PRIOR TO ASSEMBLY CONTACT CITY OF SIMI VALLEY LANDSCAPE INSPECTOR (FOR APPROVAL BACKFLOW OF ASSEMBLY SIZE AND MODEL). CURRENT APPROVED MODELS & SIZES ARE: 1"= 0436078, U009M2 APCQT; 1-1/2"= 0063007; U009M2 APCQT AND 2"= U009M2 APCQT AND FOR REGULATOR PSI RANGE MINIMUM AND MAXIMUM. WE TRY TO USE 75-125 PSI.
2. ALL PIPE FITTINGS SHALL BE RED BRASS UNLESS OTHERWISE SPECIFIED SHALL MEET ASTM STD SPEC.
3. BACKFLOW INSTALLATION SHALL BE APPROVED BY THE LOCAL DEPARTMENT OF HEALTH SERVICES OR WATER AGENCY PRIOR TO ACCEPTANCE.
4. BACKFLOW ASSEMBLIES SHALL BE CERTIFIED.
5. APPROVED PLASTIC TAPE, 1/2 INCH WIDE, SHALL BE USED ON ALL THREADED CONNECTIONS.
6. DISSIMILAR METALS SHALL BE SEPARATED BY AN APPROVED DIELECTRIC COUPLING OR BARRIER TYPE FITTINGS.
7. WRAP ALL BRASS PIPE WITH APPROVED 10 MIL PVC PLUMBERS PIPE WRAP.
8. BACKFLOW ENCLOSURE MUST BE INSTALLED IMMEDIATELY AFTER BACKFLOW IS SET. SEE SV 51-30.
9. Y-STRAINER SHALL MATCH SIZE OF INCOMING LINE. (NO TOP CONNECTION ON STRAINER PLUG).
10. KEEP ENTIRE ASSEMBLY AT A MINIMUM OF 12" FROM GROUND LEVEL. BACKFLOW ASSEMBLY MUST BE AS LOW TO THE GROUND & COMPACT AS POSSIBLE FOR SCREENING, ETC.
11. ON 2 1/2" OR LARGER MAIN LINE, USE A VALVE SETTER APPROVED BY CITY PRIOR TO INSTALLATION.

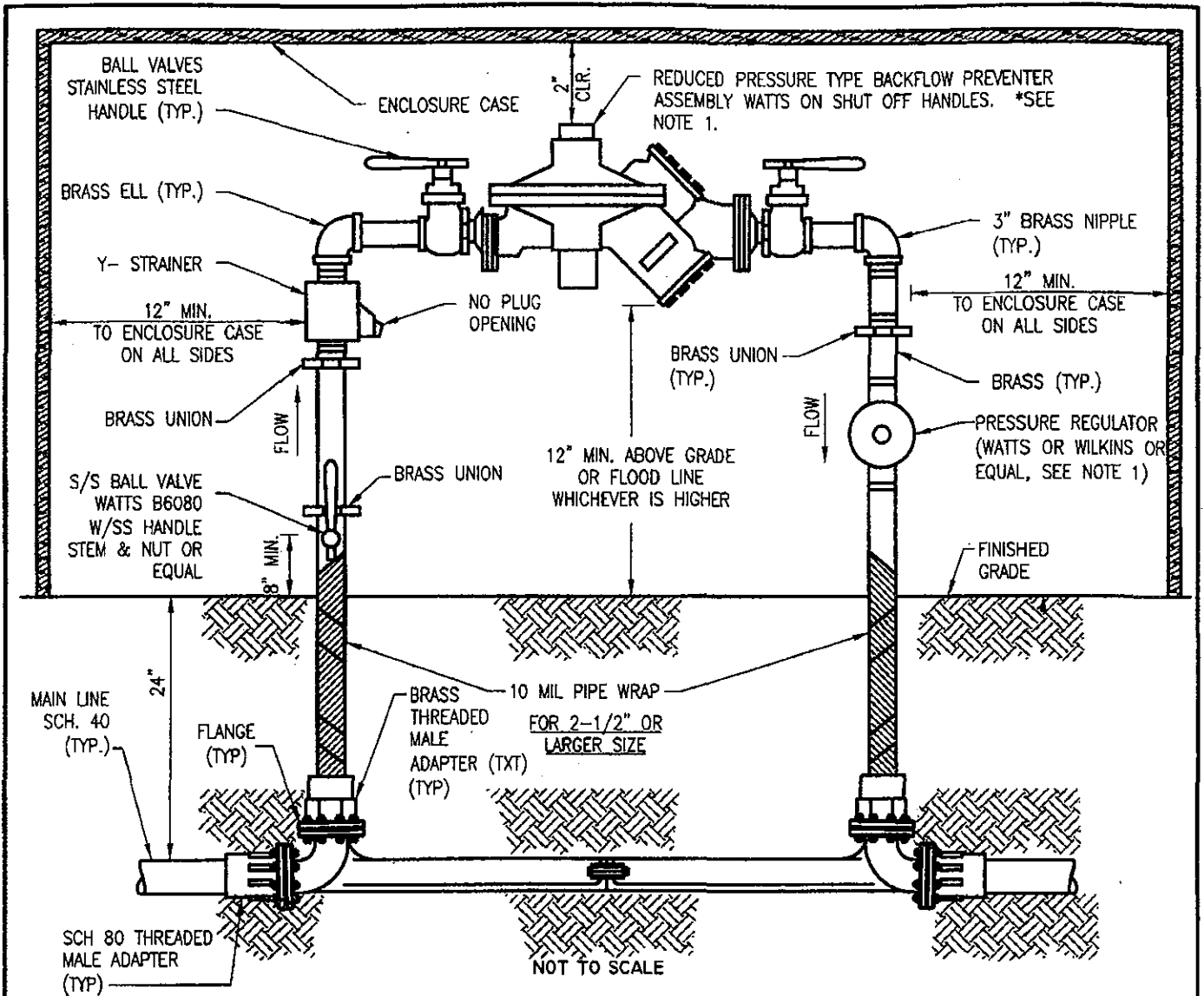
6/3/10

APPROVED:  
  
 DIRECTOR OF PUBLIC WORKS  
 DATE: 6/18/10

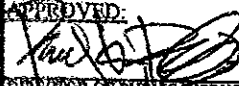
CITY OF  
 SIMI VALLEY  
 DEPARTMENT OF PUBLIC WORKS

LANDSCAPE IRRIGATION  
 REDUCED PRESSURE CROSS  
 CONNECTION CONTROL  
 2" OR SMALLER

STANDARD PLAN NO.  
 SV 52-10  
 SHEET 1 OF 2



1. PRIOR TO ASSEMBLY CONTACT CITY OF SIMI VALLEY LANDSCAPE INSPECTOR (FOR APPROVAL BACKFLOW OF ASSEMBLY SIZE AND MODEL). CURRENT APPROVED MODELS & SIZES ARE: 1"= 0436078, U009M2 APCQT; 1-1/2"= 0063007; U009M2 APCQT AND 2"= U009M2 APCQT AND FOR REGULATOR PSI RANGE MINIMUM AND MAXIMUM. WE TRY TO USE 75-125 PSI.
2. ABOVE INSTALLATION IS FOR BACKFLOWS AND MAIN IRRIGATION LINES 2 1/2" AND LARGER.
3. VALVE SETTER APPROVED BY CITY PRIOR TO INSTALLATION.
4. ALL PIPE FITTINGS SHALL BE RED BRASS UNLESS OTHERWISE SPECIFIED SHALL MEET ASTM STD SPEC.
5. BACKFLOW INSTALLATION SHALL BE APPROVED BY THE LOCAL DEPARTMENT OF HEALTH SERVICES OR WATER AGENCY PRIOR TO ACCEPTANCE.
6. BACKFLOW ASSEMBLIES SHALL BE CERTIFIED.
7. APPROVED PLASTIC TAPE, 1/2 INCH WIDE, SHALL BE USED ON ALL THREADED CONNECTIONS.
8. DISSIMILAR METALS SHALL BE SEPARATED BY AN APPROVED DIELECTRIC COUPLING OR BARRIER TYPE FITTINGS.
9. WRAP ALL BRASS PIPE WITH APPROVED 10 MIL PVC PLUMBERS PIPE WRAP.
10. BACKFLOW ENCLOSURE MUST BE INSTALLED IMMEDIATELY AFTER BACKFLOW IS SET. SEE SV 51-30.
11. Y-STRAINER SHALL MATCH SIZE OF INCOMING LINE. (NO TOP CONNECTION ON STRAINER PLUG).
12. KEEP ENTIRE ASSEMBLY AT A MINIMUM OF 12" FROM GROUND LEVEL. BACKFLOW ASSEMBLY MUST BE AS LOW TO THE GROUND & COMPACT AS POSSIBLE FOR SCREENING, ETC. 6/3/10

APPROVED:  
  
 DIRECTOR OF PUBLIC WORKS  
 6/18/10  
 DATE

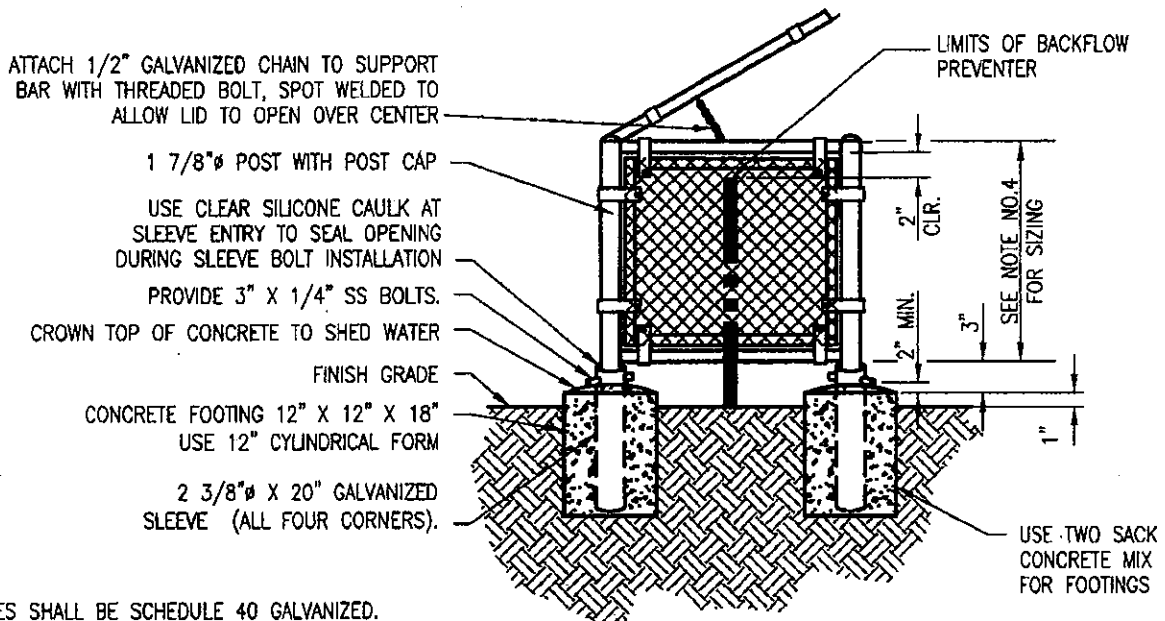
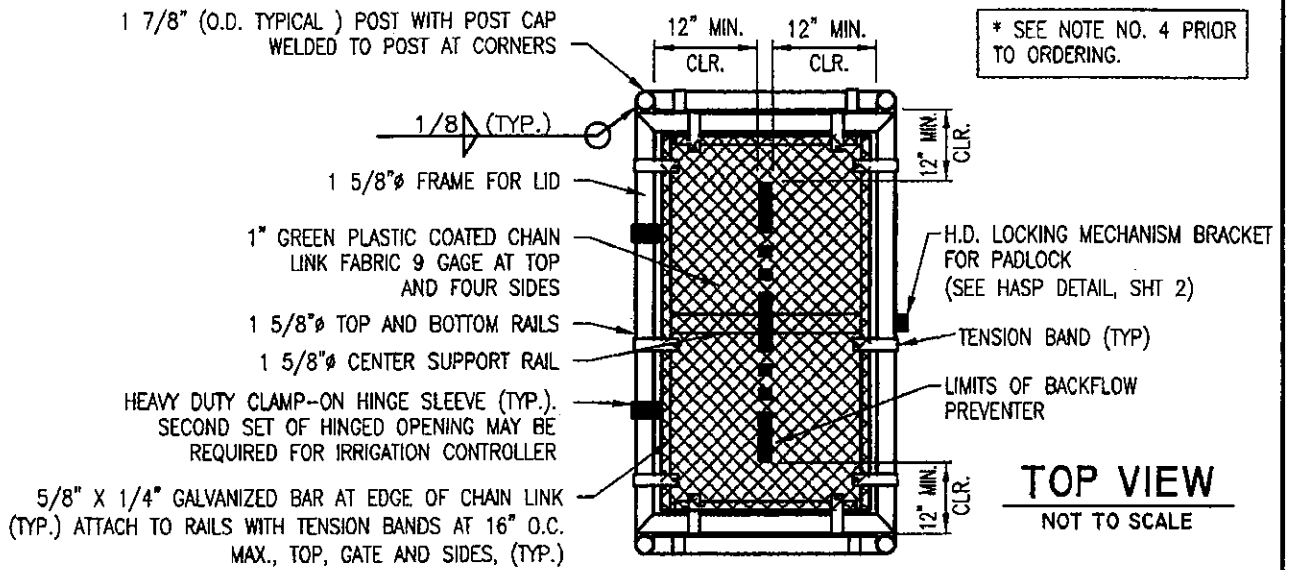
**CITY OF  
SIMI VALLEY**

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DEPARTMENT OF PUBLIC WORKS

**LANDSCAPE IRRIGATION  
REDUCED PRESSURE CROSS  
CONNECTION CONTROL  
2" OR LARGER**

STANDARD PLAN NO.  
**SV 52-10**  
 SHEET 2 OF 2



**NOTES:**

1. ALL PIPES SHALL BE SCHEDULE 40 GALVANIZED.
2. ENCLOSURE SHALL BE CONSTRUCTED PER SECTION 206-6 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (CURRENT EDITION) UNLESS OTHERWISE NOTED.
3. PAINT ENCLOSURE WITH ONE COAT PRIMER (RUST GUARD) AND TWO COATS SINCLAIR'S SINTEC 7535 JOHN DEERE GREEN OR SUBMIT ALTERNATE COLOR FOR APPROVAL.
4. PRIOR TO PLACING ORDER FOR ENCLOSURE CONFIRM SIZE WITH CITY PUBLIC WORKS LANDSCAPE INSPECTOR (SIZE MAY BE ALTERED TO ACCOMMODATE NEEDED SPACE).  
\* ENCLOSURE MAY NEED SECOND ENTRY FOR IRRIGATION TIMER.
5. ENCLOSURE SHALL BE PLACED FOR EASY ACCESS, OUT OF DIRECT IRRIGATION SPRAY.
6. ALL ENCLOSURES SHALL BE SCREENED WITH PLANT MATERIAL.
7. REFER TO SHEET 2 OF 2 FOR MORE ILLUSTRATION DETAILS.

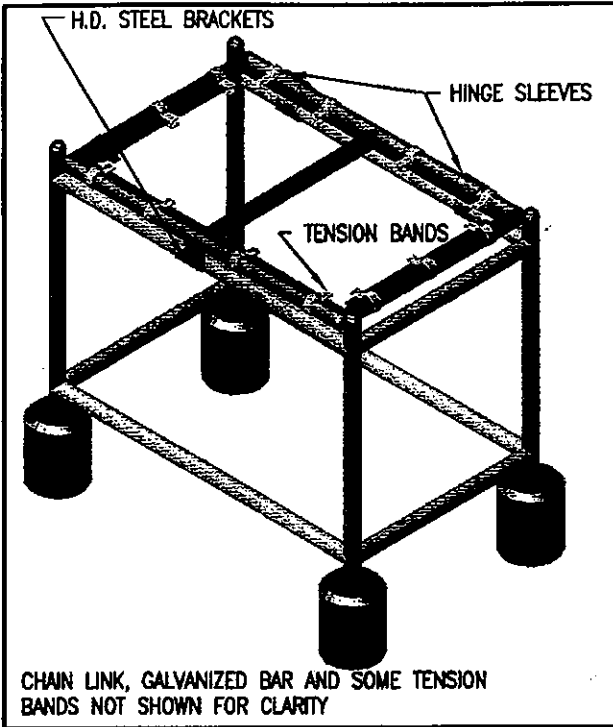
6/3/10

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DIRECTOR OF PUBLIC WORKS  
6/18/10  
DATE

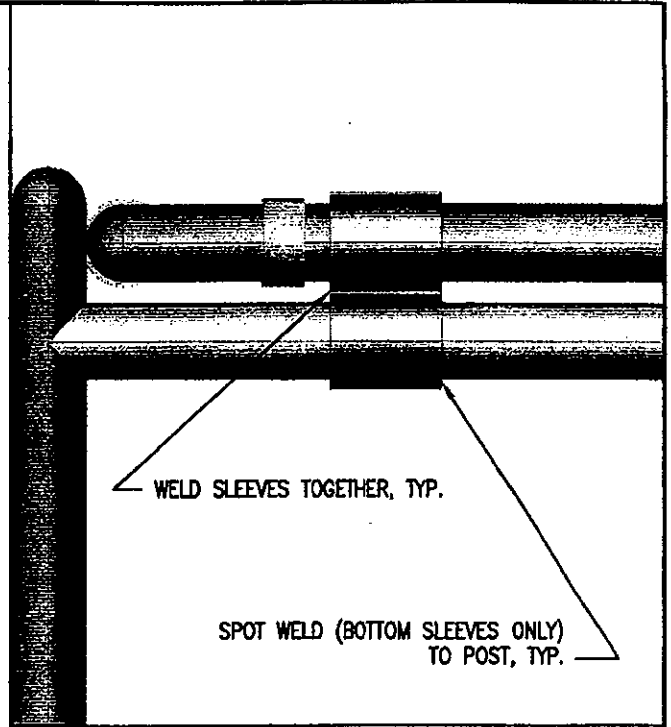
CITY OF  
SIMI VALLEY  
DEPARTMENT OF PUBLIC WORKS

CHAIN LINK ENCLOSURE  
FOR  
BACKFLOW PREVENTER

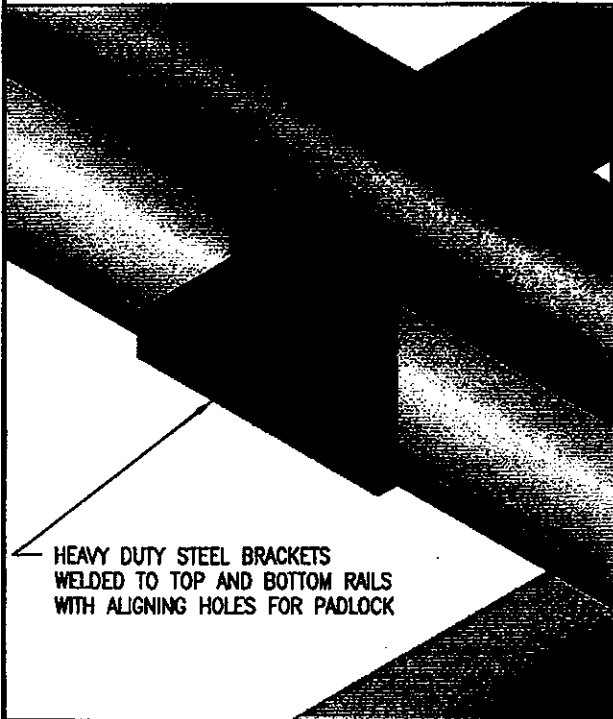
STANDARD PLAN NO.  
SV 52-15  
SHEET 1 OF 2



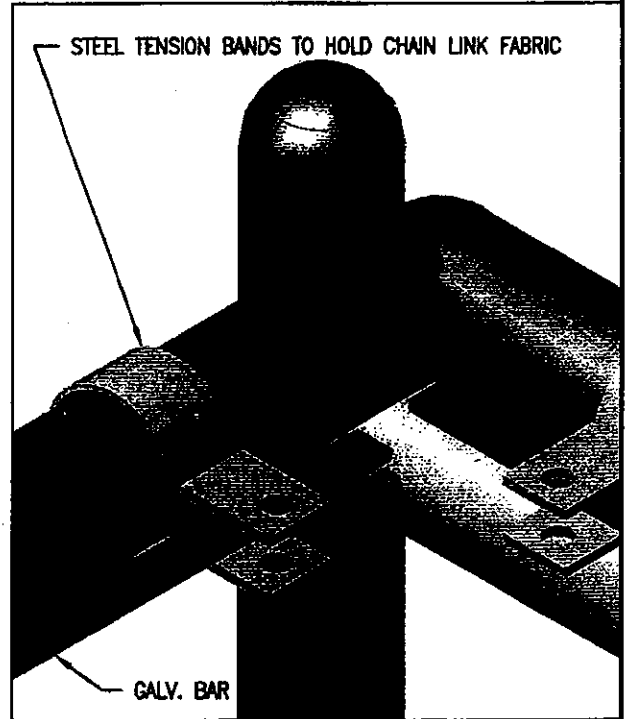
**ASSEMBLY**  
NOT TO SCALE



**HINGE SLEEVE DETAIL**  
NOT TO SCALE



**HASP DETAIL**  
NOT TO SCALE



**TENSION BAND ILLUSTRATION**  
NOT TO SCALE

6/3/10

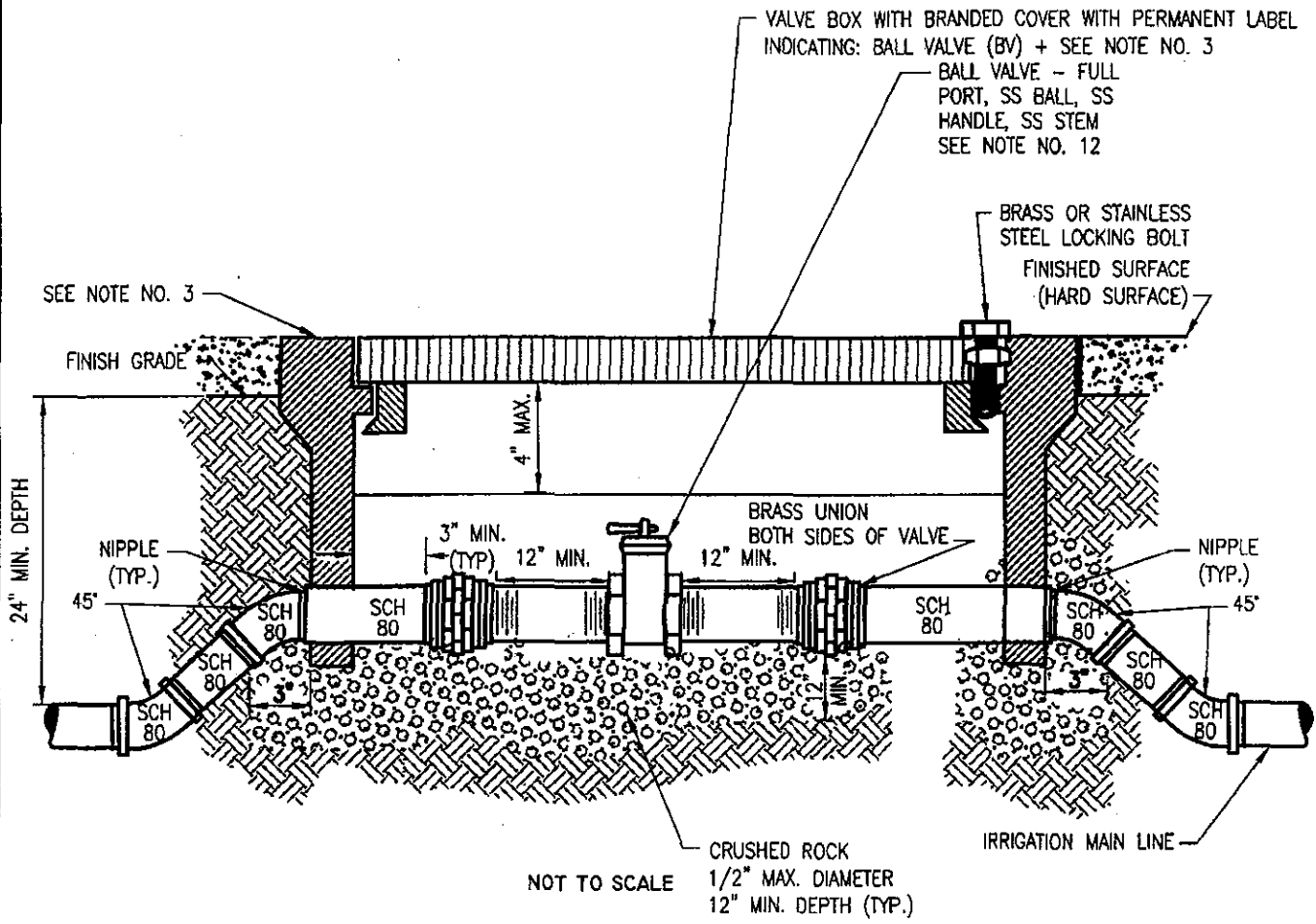
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DIRECTOR OF PUBLIC WORKS  
6/18/10  
DATE

CITY OF  
SIMI VALLEY  
DEPARTMENT OF PUBLIC WORKS

CHAIN LINK ENCLOSURE  
FOR  
BACKFLOW PREVENTER

STANDARD PLAN NO.  
SV 52-15  
SHEET 2 OF 2





**NOTES:**

1. MAINLINE DEPTH VARIES. NO LESS THAN 24".
2. USE 45° FITTINGS FOR ALL CHANGES IN DIRECTION OF IRRIGATION LINES.
3. USE JUMBO SIZE PLASTIC VALVE BOX WITH LOCKING LID, BOX APPROXIMATELY 18"x25"x12" SIZE. BRAND LIP CORNER "BALL VALVE".
4. USE SCH 80 FROM IRRIGATION LINE THROUGH BALL VALVE BACK TO IRRIGATION LINE.
5. USE TEFLON TAPE AND THREAD SEALER ON ALL THREADED FITTINGS.
6. TOP OF BOX SHALL BE AT FINISH GRADE.
7. CLOSE NIPPLES SHALL NOT BE USED.
8. CRUSHED ROCK SHALL COVER VALVE BOX PIPE CUT OUTS TO PREVENT SOIL ENTRY. DO NOT GRAVEL OVER BASE OF VALVE.
9. COMPACT SOIL AROUND VALVE BOX TO KEEP FROM SETTLING TO 75% COMPACTION..
10. RECLAIMED WATER SHALL HAVE VIOLET LIDS.
11. BALL VALVE: WILL BE SAME SIZE AS IRRIGATION LINE.
12. BALL VALVE WILL BE BRONZE BODY WITH FEMALE THREAD ENDS, A MINIMUM OF AISI 316 STAINLESS STEEL BALL, WITH TEFLON SEAL STAINLESS STEEL STEM AND STAINLESS STEEL HANDLE AND NUT.

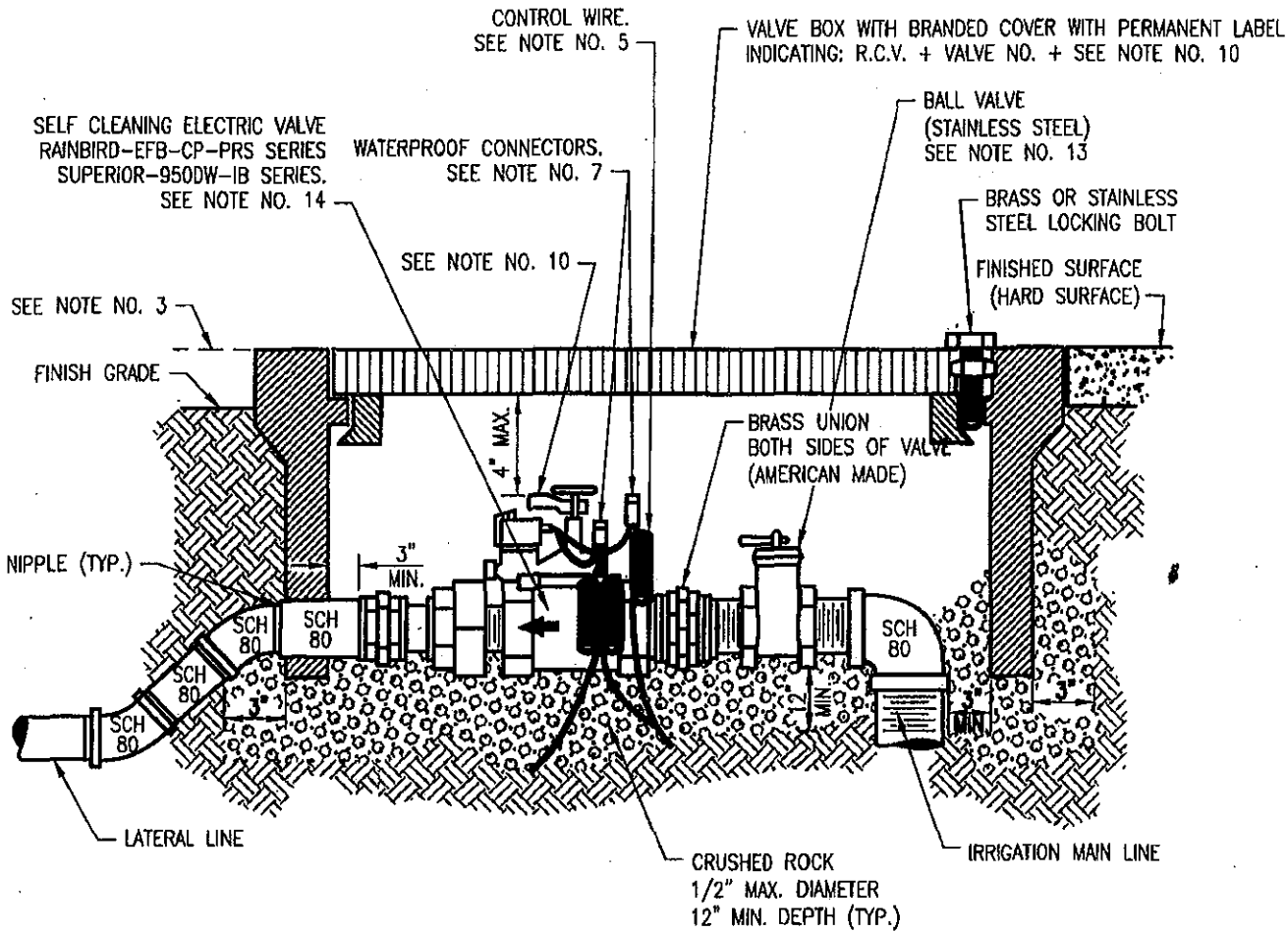
6/3/10

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 DIRECTOR OF PUBLIC WORKS  
 6/18/10  
 DATE

CITY OF  
 SIMI VALLEY  
 DEPARTMENT OF PUBLIC WORKS

BALL VALVE IN  
 BOX DETAIL

STANDARD PLAN NO.  
 SV 52-19  
 SHEET 1 OF 1



NOT TO SCALE

10/6/10

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*[Signature]*  
DIRECTOR OF PUBLIC WORKS  
10/12/10  
DATE

CITY OF  
SIMI VALLEY  
DEPARTMENT OF PUBLIC WORKS

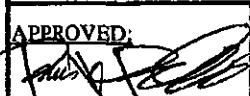
LANDSCAPE IRRIGATION  
REMOTE CONTROL  
VALVE DETAIL

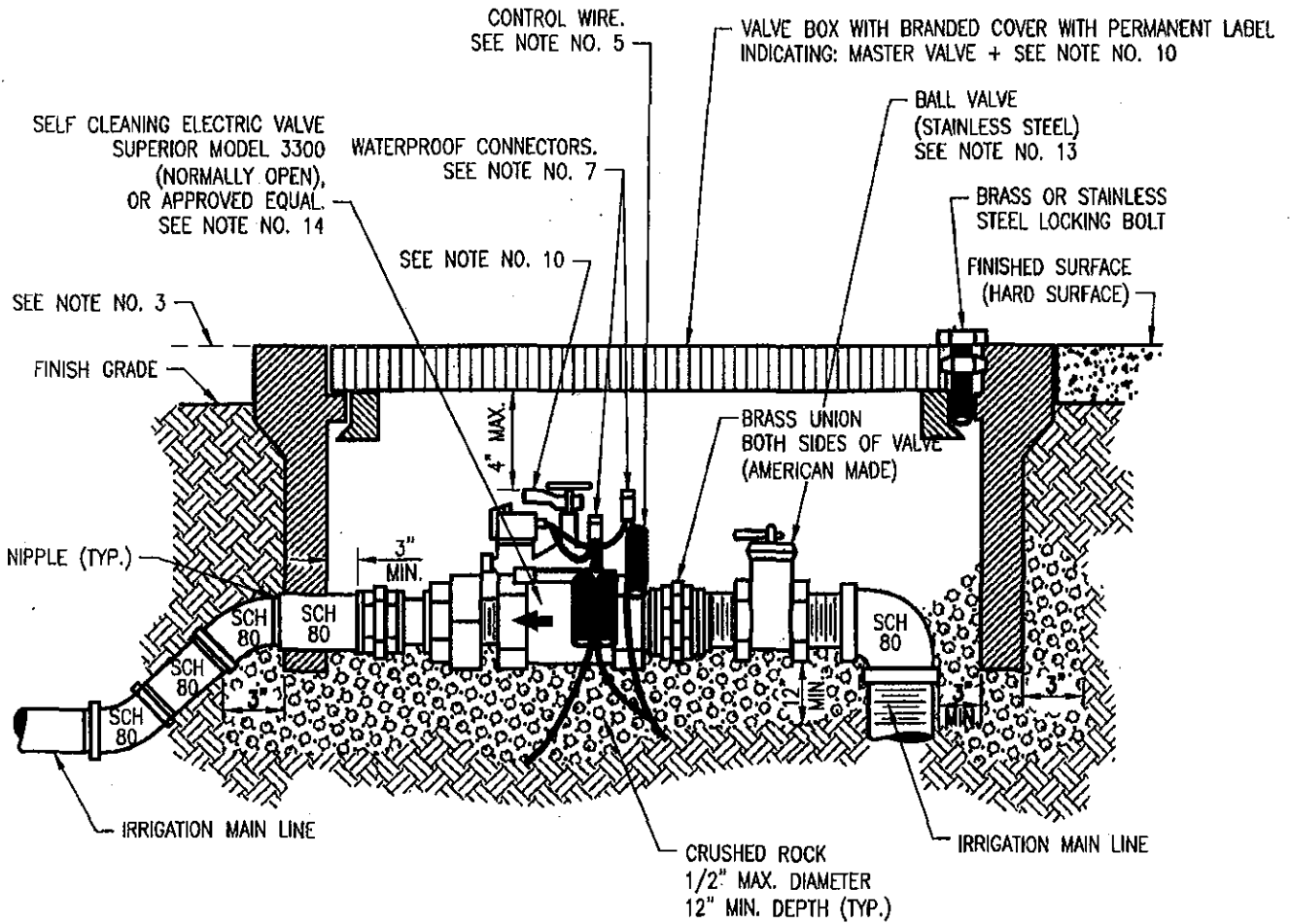
STANDARD PLAN NO.  
SV 52-20  
SHEET 1 OF 2

**NOTES:**

1. THIS ASSEMBLY DESIGN IS TO COVER ALL IRRIGATION RELATED VALVE INSTALLATIONS.
2. BOXES ARE INTENDED FOR USE IN LANDSCAPE PLANTING SITES..
3. TOP OF BOX SHALL BE AT FINISH GRADE FOR LAWNS AND 2 INCHES ABOVE GRADE FOR GROUND COVER OR SHRUBS.
4. CLOSE NIPPLES SHALL NOT BE USED.
5. PROVIDE TWO FOOT EXPANSION LOOP AT EACH WIRE CONNECTION IN VALVE BOX AND COIL WIRES.
6. ALL PIPES AND FITTINGS SHALL BE PVC SCHEDULE 80 UNLESS OTHERWISE SPECIFIED.
7. WATERPROOF CONNECTORS DS 400 BY SPEARS OR PEN TIGHT OR EQUAL.
8. VALVE BOX SHALL BE LARGE OR JUMBO PLASTIC BOX WITH LOCKING PLASTIC COVER, BROOKS JUMBO, APPLIED ENGINEERING PRODUCTS, OR APPROVED EQUAL. APPROX. 18" X 25" X 12" IN SIZE.
9. CRUSHED ROCK SHALL COVER VALVE BOX PIPE CUT OUTS TO PREVENT SOIL ENTRY. DO NOT GRAVEL OVER BASE OF VALVE.
10. INSTALL VALVE TAG WITH CHRISTI I.D. LABEL TAG WITH VALVE NUMBER AND SECURE TO VALVE STEM. BRAND THE VALVE BOX LID WITH RCV AND VALVE NUMBER.
11. COMPACT SOIL AROUND VALVE BOX TO KEEP FROM SETTLING.
12. RECLAIMED WATER SHALL HAVE VIOLET LIDS.
13. MAIN LINE BALL VALVE:  
WILL BE SAME SIZE AS MAIN LINE.  
BALL VALVE WILL BE BRONZE BODY WITH FEMALE THREAD ENDS, A MINIMUM OF AISI 316 STAINLESS STEEL BALL, WITH TEFLON SEAL STAINLESS STEEL STEM AND STAINLESS STEEL HANDLE AND NUT.
14. RCV VALVE ASSEMBLY AND BALL VALVE:  
BALL VALVE WILL BE SAME LINE SIZE AS RCV VALVE. IT WILL BE BRONZE BODY WITH FEMALE THREAD ENDS, AISI 316 STAINLESS STEEL BALL WITH TEFLON SEAL, STAINLESS STEEL STEM AND STAINLESS STEEL HANDLE & NUT.

6/3/10

<p>APPROVED:  DIRECTOR OF PUBLIC WORKS 10/12/10 DATE</p>	<p>CITY OF SIMI VALLEY DEPARTMENT OF PUBLIC WORKS</p>	<p>LANDSCAPE IRRIGATION REMOTE CONTROL VALVE DETAIL</p>	<p>STANDARD PLAN NO. SV 52-20 SHEET 2 OF 2</p>
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NOT TO SCALE

10-6-10

APPROVED: *[Signature]*  
 DIRECTOR OF PUBLIC WORKS  
 10/12/10  
 DATE

CITY OF  
 SIMI VALLEY  
 DEPARTMENT OF PUBLIC WORKS


LANDSCAPE IRRIGATION  
 MASTER VALVE DETAIL

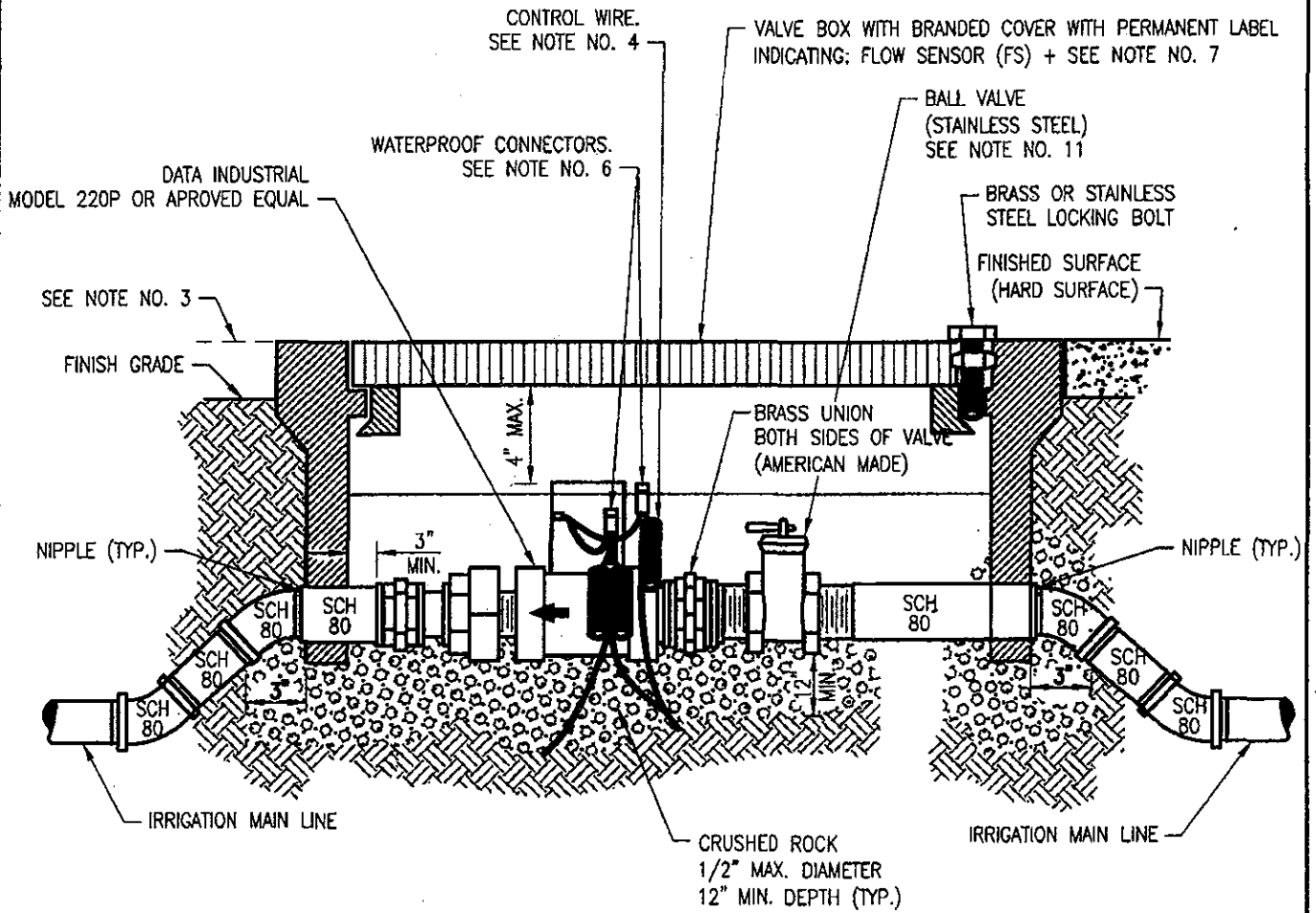
STANDARD PLAN NO.  
 SV 52-25  
 SHEET 1 OF 2

**NOTES:**

1. THIS ASSEMBLY DESIGN IS TO COVER ALL IRRIGATION RELATED VALVE INSTALLATIONS.
2. BOXES ARE INTENDED FOR USE IN LANDSCAPE PLANTING SITES.
3. TOP OF BOX: SHALL BE AT FINISH GRADE FOR LAWNS AND 2 INCHES ABOVE GRADE FOR GROUND COVER OR SHRUBS.
4. CLOSE NIPPLES SHALL NOT BE USED.
5. PROVIDE TWO FOOT EXPANSION LOOP OF 14g SOLID CORE INSULATED IRRIGATION WIRE AT EACH WIRE CONNECTION IN VALVE BOX AND COIL WIRES.
6. ALL PIPES AND FITTINGS SHALL BE PVC SCHEDULE 80 UNLESS OTHERWISE SPECIFIED.
7. WATERPROOF CONNECTORS DS 400 BY SPEARS OR PEN TIGHT OR EQUAL.
8. VALVE BOX SHALL BE LARGE OR JUMBO PLASTIC BOX WITH LOCKING PLASTIC COVER, BROOKS JUMBO, NDS, APPLIED ENGINEERING PRODUCTS, OR APPROVED EQUAL. APPROX. 18" X 25" X 12" IN SIZE..
9. CRUSHED ROCK SHALL COVER VALVE BOX PIPE CUT-OUTS, TO PREVENT SOIL ENTRY. DO NOT GRAVEL OVER BASE OF VALVE.
10. INSTALL VALVE TAG WITH CHRISTI I.D. LABEL TAG WITH MASTER VALVE (MV), AND SECURE TO SOLENOID WIRE. BRAND THE VALVE BOX LID WITH MASTER VALVE (MV).
11. COMPACT SOIL AROUND VALVE BOX TO KEEP FROM SETTLING.
12. RECLAIMED WATER SHALL HAVE VIOLET LIDS.
13. MAIN LINE BALL VALVE:  
WILL BE SAME SIZE AS MAIN LINE.  
BALL VALVE WILL BE BRONZE BODY WITH FEMALE THREAD ENDS, A MINIMUM OF AISI 316 STAINLESS STEEL BALL, WITH TEFLON SEAL STAINLESS STEEL STEM AND STAINLESS STEEL HANDLE AND NUT.
14. VALVE ASSEMBLY AND BALL VALVE:  
BALL VALVE WILL BE SAME LINE SIZE AS MASTER VALVE. IT WILL BE BRONZE BODY WITH FEMALE THREAD ENDS, AISI 316 STAINLESS STEEL BALL WITH TEFLON SEAL, STAINLESS STEEL STEM AND STAINLESS STEEL HANDLE & NUT.  
A. DC LATCHING SOLENOID USE DESIGN LINE SIZE SUPERIOR MODEL 950 DWIB, (NORMALLY OPEN), OR APPROVED EQUAL.  
B. AC LATCHING SOLENOID USE DESIGN LINE SIZE SUPERIOR MODEL 3300, (NORMALLY OPEN), OR APPROVED EQUAL.

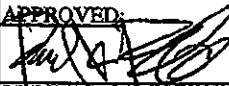

10-6-10

<p>APPROVED:  DIRECTOR OF PUBLIC WORKS 10/2/10 DATE</p>	<p>CITY OF SIMI VALLEY  DEPARTMENT OF PUBLIC WORKS</p>	<p>LANDSCAPE IRRIGATION MASTER VALVE DETAIL</p>	<p>STANDARD PLAN NO. SV 52-25 SHEET 2 OF 2</p>
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NOT TO SCALE

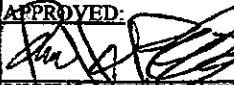
6-3-10

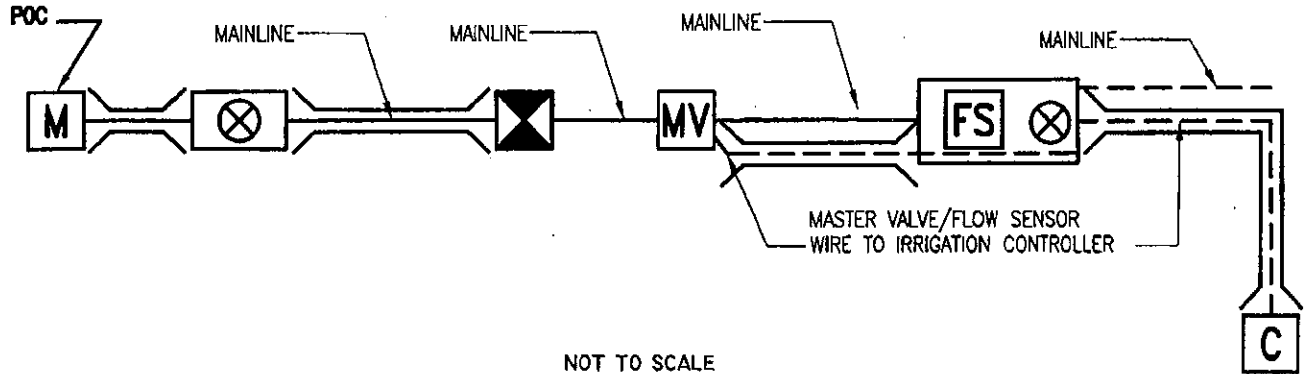
<p>APPROVED:</p>  <p>DIRECTOR OF PUBLIC WORKS</p> <p>6/18/10</p> <p>DATE</p>	<p>CITY OF SIMI VALLEY</p>  <p>DEPARTMENT OF PUBLIC WORKS</p>	<p>LANDSCAPE IRRIGATION FLOW SENSOR DETAIL</p>	<p>STANDARD PLAN NO.</p> <p>SV 52-26</p> <p>SHEET 1 OF 2</p>
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**NOTES:**

1. THIS ASSEMBLY DESIGN IS TO COVER ALL IRRIGATION RELATED VALVE INSTALLATIONS.
2. BOXES ARE INTENDED FOR USE IN LANDSCAPE PLANTING SITES.
3. TOP OF BOX SHALL BE AT FINISH GRADE FOR LAWNS AND 2 INCHES ABOVE GRADE FOR GROUND COVER OR SHRUBS.
4. PROVIDE TWO FOOT EXPANSION LOOP AT EACH WIRE CONNECTION IN VALVE BOX AND COIL WIRES. ALL WIRES TO BE PLACED IN 1" SCH. 80 PVC FROM FLOW SENSOR TO IRRIGATION CONTROLLER.
5. ALL PIPES AND FITTINGS SHALL BE PVC SCHEDULE 80 UNLESS OTHERWISE SPECIFIED.
6. WATERPROOF CONNECTORS BY 3M, DBY OR EQUAL.
7. VALVE BOX SHALL BE PLASTIC BOX WITH LOCKING PLASTIC COVER, BROOKS JUMBO, NDS, APPLIED ENGINEERING PRODUCTS, OR APPROVED EQUAL. BRAND THE VALVE BOX LID WITH "FLOW SENSOR".
8. CRUSHED ROCK SHALL COVER VALVE BOX PIPE CUT OUTS TO PREVENT SOIL ENTRY. DO NOT GRAVEL OVER BASE OF SENSOR.
9. COMPACT SOIL AROUND VALVE BOX TO KEEP FROM SETTLING.
10. RECLAIMED WATER SHALL HAVE VIOLET LIDS.
11. MAIN LINE BALL VALVE:  
WILL BE SAME SIZE AS MAIN LINE.  
BALL VALVE WILL BE BRONZE BODY WITH FEMALE THREAD ENDS, A MINIMUM OF AISI 316 STAINLESS STEEL BALL, WITH TEFLON SEAL STAINLESS STEEL STEM AND STAINLESS STEEL HANDLE AND NUT.
12. SENSOR ASSEMBLY AND BALL VALVE:  
BALL VALVE WILL BE SAME LINE SIZE AS SENSOR. IT WILL BE BRONZE BODY WITH FEMALE THREAD ENDS, AISI 316 STAINLESS STEEL BALL WITH TEFLON SEAL, STAINLESS STEEL STEM AND STAINLESS STEEL HANDLE & NUT.

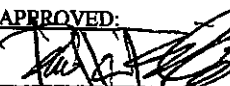
6-3-10

<p>APPROVED:  DIRECTOR OF PUBLIC WORKS DATE: 6/18/10</p>	<p>CITY OF SIMI VALLEY DEPARTMENT OF PUBLIC WORKS</p>	<p>LANDSCAPE IRRIGATION FLOW SENSOR DETAIL</p>	<p>STANDARD PLAN NO. SV 52-26 SHEET 2 OF 2</p>
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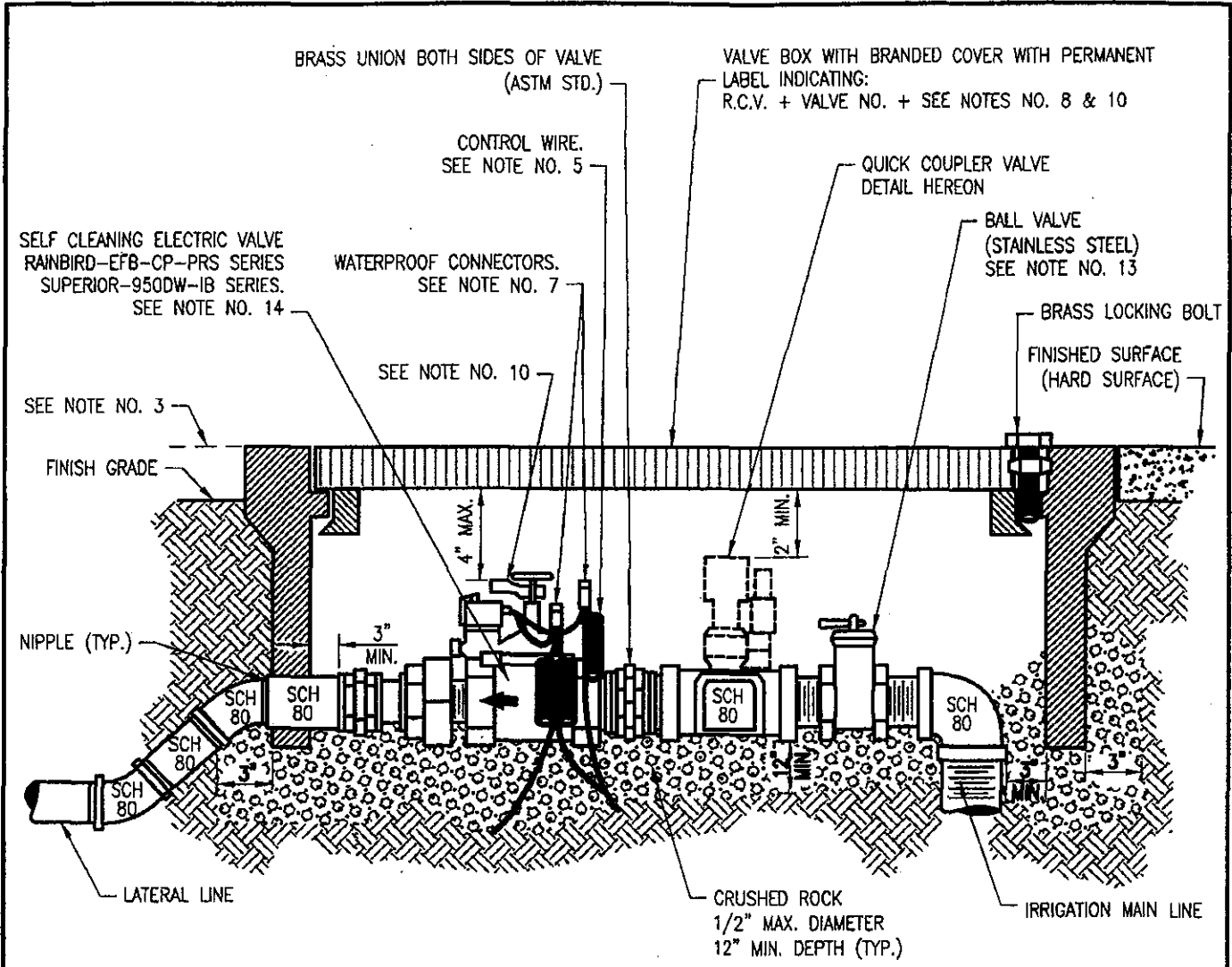


1. USE OTHER STANDARD PUBLIC WORKS LANDSCAPE PLATE FOR ASSEMBLY
2. SLEEVE MAIN IRRIGATION LINE USING A MIN. OF 4" SCH 40 PVC OR DOUBLE THE O.D. OF MAIN LINE PIPE SIZE TO ESTABLISH SLEEVE SIZING FROM METER TO BACKFLOW.
3. SLEEVE MASTER VALVE/FLOW SENSOR WIRE USING 1" PVC ELECTRICAL CONDUIT. USE ONLY SWEEPS FOR CHANGES IN DIRECTION FROM MASTER VALVE TO IRRIGATION CONTROLLER.
4. USE MASTER VALVE/FLOW SENSOR WIRE ONLY FROM FLOW SENSOR TO IRRIGATION CONTROLLER
5. USE #14 GAGE DIRECT BURIAL IRRIGATION WIRE IN A 1" SLEEVE FROM MASTER VALVE TO IRRIGATION CONTROLLER WHEN THERE IS MORE THAN 24" SEPARATION FROM FLOW SENSOR. WHEN SEPARATION BETWEEN MASTER VALVE AND FLOW SENSOR IS LESS THAN 24", TAPE WIRE TO THE MAINLINE ON 12" SPACING.
6. ALL SLEEVING WILL BE AT NO LESS THAN 12" BELOW SOIL GRADE FROM MASTER VALVE TO IRRIGATION CONTROLLER.

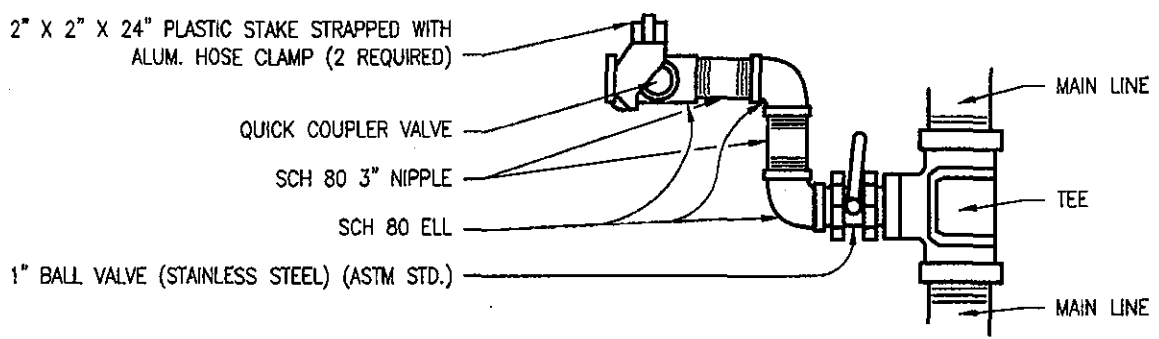
SCALE: N.T.S.  
(6-3-10)

APPROVED:  DIRECTOR OF PUBLIC WORKS 6/18/10 DATE	CITY OF <b>SIMI VALLEY</b> DEPARTMENT OF PUBLIC WORKS	<b>IRRIGATION MAINLINE          METER VALVE - FLOW SENSOR          DETAIL</b>	STANDARD PLAN NO. <b>SV 52-27</b> SHEET 1 OF 1
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**LANDSCAPE IRRIGATION VALVE DETAIL**  
NOT TO SCALE



**QUICK COUPLER DETAIL**  
NOT TO SCALE

6-3-10

APPROVED:  
*[Signature]*  
DIRECTOR OF PUBLIC WORKS  
DATE

CITY OF SIMI VALLEY  
DEPARTMENT OF PUBLIC WORKS

LANDSCAPE IRRIGATION  
REMOTE CONTROL VALVE  
DETAIL W/QUICK COUPLER

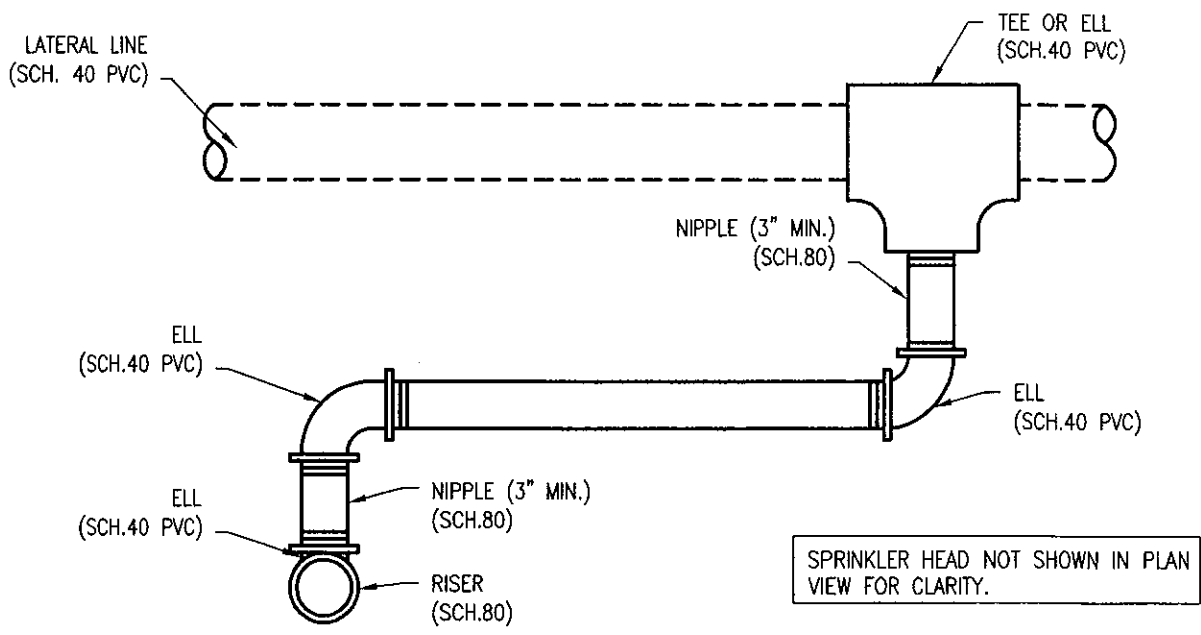
STANDARD PLAN NO.  
SV 52-30  
SHEET 1 OF 2

**NOTES:**

1. THIS ASSEMBLY DESIGN IS TO COVER ALL IRRIGATION RELATED VALVE INSTALLATIONS.
2. BOXES ARE INTENDED FOR USE IN LANDSCAPE PLANTING SITES.
3. TOP OF BOX SHALL BE AT FINISH GRADE FOR LAWNS AND 2 INCHES ABOVE GRADE FOR GROUND COVER OR SHRUBS.
4. CLOSE NIPPLES SHALL NOT BE USED.
5. PROVIDE TWO FOOT EXPANSION LOOP AT EACH WIRE CONNECTION IN VALVE BOX AND COIL WIRES.
6. ALL PIPES AND FITTINGS SHALL BE PVC SCHEDULE 80 UNLESS OTHERWISE SPECIFIED.
7. WATERPROOF CONNECTORS BY JM DBY OR EQUAL.
8. VALVE BOX SHALL BE LARGE OR JUMBO PLASTIC BOX WITH LOCKING PLASTIC COVER, BROOKS JUMBO, NDS, APPLIED ENGINEERING PRODUCTS, OR APPROVED EQUAL. APPROX. 18" X 25" X 12" IN SIZE.
9. CRUSHED ROCK SHALL COVER VALVE BOX PIPE CUT OUTS TO PREVENT SOIL ENTRY. DO NOT GRAVEL OVER BASE OF VALVE.
10. INSTALL VALVE TAG WITH CHRISTI I.D. LABEL TAG WITH VALVE NUMBER AND SECURE TO VALVE STEM. BRAND THE VALVE BOX LID WITH VALVE NUMBER, RCV NUMBER AND QUICK COUPLER (QC).
11. COMPACT SOIL AROUND VALVE BOX TO KEEP FROM SETTLING.
12. RECLAIMED WATER SHALL HAVE VIOLET LIDS.
13. MAIN LINE BALL VALVE:  
WILL BE SAME SIZE AS MAIN LINE.  
BALL VALVE WILL BE BRONZE BODY WITH FEMALE THREAD ENDS, A MINIMUM OF AISI 316 STAINLESS STEEL BALL, WITH TEFLON SEAL STAINLESS STEEL STEM AND STAINLESS STEEL HANDLE AND NUT.
14. RCV VALVE ASSEMBLY AND QUICK COUPLER BALL VALVE:  
BALL VALVE WILL BE SAME LINE SIZE AS RCV VALVE. IT WILL BE BRONZE BODY WITH FEMALE THREAD ENDS, AISI 316 STAINLESS STEEL BALL WITH TEFLON SEAL, STAINLESS STEEL STEM AND STAINLESS STEEL HANDLE & NUT.
15. USE RAINBIRD QUICK COUPLER VALVE OR EQUAL, 1 INCH SIZE.
16. ALL QUICK COUPLERS WITHIN A 20 FEET OF A VALVE WILL BE PLACED IN VALVE BOX AT VALVE LOCATION.
17. QUICK COUPLERS BETWEEN VALVES WILL BE PLACED IN 10 INCHES ROUND VALVE BOX WITH LOCKING LID AND "QC" BRANDED ON LID.
18. ALL BRASS FITTINGS SHALL BE SAME SIZE AS VALVE.
19. QUICK COUPLER VALVE IN LAWN AREAS SHALL SET AT GRADE.
20. QUICK COUPLER VALVE IN SHRUB AREAS SHALL BE SET 4 INCHES ABOVE FINISHED GRADE.
21. PIPE SIZE FROM MAINLINE SHALL MATCH QUICK COUPLER INLET DIAMETER.
22. DISSIMILAR METALS SHALL BE SEPARATED BY AN APPROVED DIELECTRIC COUPLING.
23. PLASTIC PIPE SHALL NOT BE USED ABOVE FINISHED GRADE.

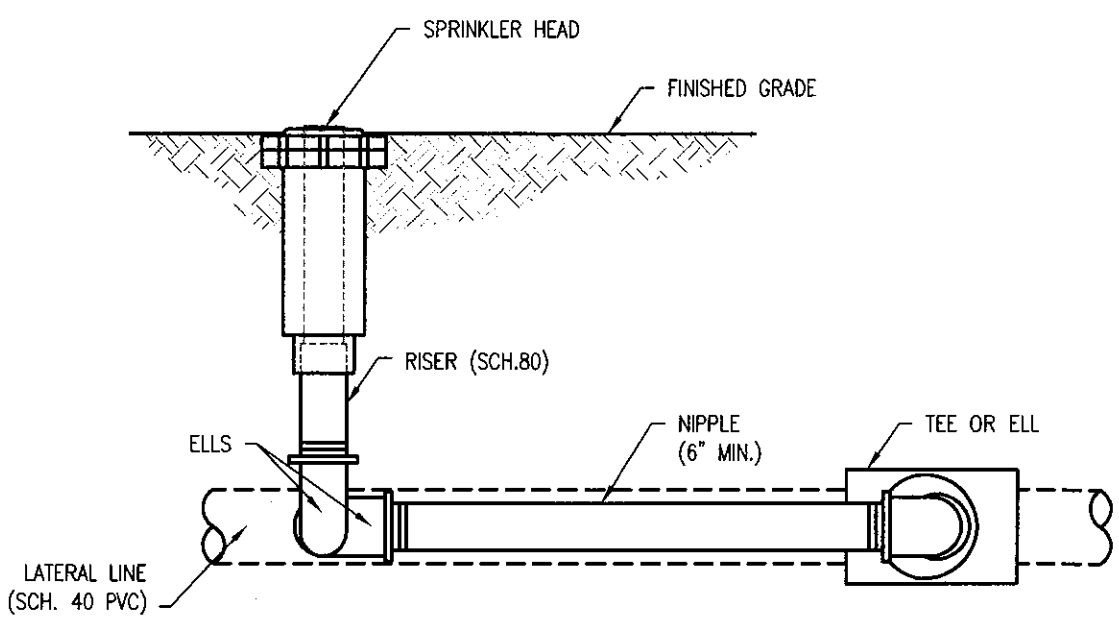
6-3-10

<p>APPROVED:  DIRECTOR OF PUBLIC WORKS 6/18/10 DATE</p>	<p>CITY OF SIMI VALLEY DEPARTMENT OF PUBLIC WORKS</p>	<p>LANDSCAPE IRRIGATION REMOTE CONTROL VALVE DETAIL W/QUICK COUPLER</p>	<p>STANDARD PLAN NO. SV 52-30 SHEET 2 OF 2</p>
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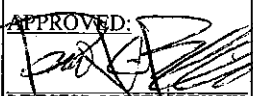
SPRINKLER HEAD NOT SHOWN IN PLAN VIEW FOR CLARITY.

**PLAN VIEW**  
NOT TO SCALE



**SIDE VIEW**  
NOT TO SCALE

3/12/13

APPROVED:  
  
 DIRECTOR OF PUBLIC WORKS  
 4/12/13  
 DATE

**CITY OF  
SIMI VALLEY**  
 DEPARTMENT OF PUBLIC WORKS


**LANDSCAPE IRRIGATION  
SWING JOINT AND  
SPRINKLER/BUBBLER HEAD  
INSTALLATION DETAIL**

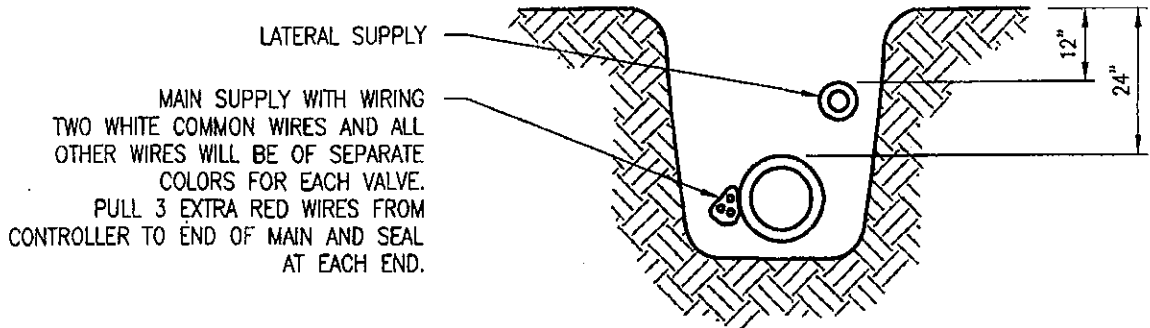
STANDARD PLAN NO.  
**SV 52-40**  
 SHEET 1 OF 2

**NOTES:**

1. ALL SWING JOINT PIPE SHALL BE SCHEDULE 80 PVC UNLESS OTHERWISE NOTED.
2. ALL THREADED FITTINGS WILL HAVE TEFLON TAPE OR PIPE JOINT COMPOUND APPLIED PRIOR TO ASSEMBLY.
3. BUBBLER HEADS SHALL BE SET 2 INCHES ABOVE SOIL GRADE. PLACE BUBBLER HEAD NO CLOSER THAN 12 INCHES FROM PLANT TRUNK AND WITHIN WATER WELL.
4. NON POP-UP SPRAY AND STREAM HEADS SHALL BE ON RISERS SET 6 INCHES TO 8 INCHES ABOVE SOIL GRADE TO PROVIDE COVERAGE IN PLANTER AREAS. STAKE AND STRAP EACH RISER WITH A 2 INCHES x 2 INCHES x 24 INCHES PLASTIC STAKE AND AN ALUMINUM HOSE CLAMP (1 STRAP PER HEAD). STAKES SHALL ONLY BE USED ALONG TOP OF SLOPES AWAY FROM SIDEWALKS AND PUBLIC USE AREAS.
5. POP-UP HEADS SHALL BE SET 1/4 INCH ABOVE FINISH SOIL GRADE TO KEEP SURFACE WATER FROM SETTLING ON NOZZLE. SOIL GRADE SHALL BE 1 INCH BELOW CONCRETE FINISHED SURFACE. HEAD WILL BE ADJUSTED AS NECESSARY TO ACCOMMODATE TURF OR GROUND COVER AND PROVIDE A SAFE AND MAINTAINABLE SYSTEM.
6. ALL HEADS ON SLOPE AREAS SHALL BE SET AT APPROPRIATE ANGLE FOR COVERAGE. HOWEVER, HEADS SHALL BE SET NO CLOSER THAN 2 INCHES FROM CONCRETE WALKS WHEN IN POP-UP POSITION.
7. LATERAL LINES SHALL BE A TRENCHED APPROXIMATELY 8 INCHES BACK OF CURB, OR SIDEWALK.
8. TRENCHES SHALL BE A MINIMUM OF 12 INCHES DEEP AND AT LEAST 3 INCHES BELOW THE DEPTH OF IRRIGATION HEAD USED.
9. SWING JOINTS SHALL FACE CURBING OR EDGE OF SIDEWALK AND SPRINKLERS SHALL BE SET 2 INCHES IN FROM CURB OR EDGE.
10. ALL BACKFILL SHALL BE CLEAN OF ROCKS, WOOD, CONCRETE, GLASS AND OTHER DEBRIS.
11. ON SWING JOINTS, FOR ABOVE GRADE RISERS WITH SHRUB BODIES, USE KBI RUBBER HOSE FLEX RISERS AT BASE AS DIRECTED BY PUBLIC WORKS LANDSCAPE INSPECTOR.
12. ATTACH POP-UP HEAD TO SWING JOINT RISER. BE SURE HEAD IS SCREWED ON SECURELY HAND TIGHT. RISER LENGTH SHALL BE DETERMINED AT TIME OF INSTALLATION.
13. PACK SOIL AROUND HEAD TO HOLD STRAIGHT AND LEVEL IN-PLACE.
14. HEAD SHOULD BE SET 2 INCHES AWAY FROM CONCRETE MOW STRIP, SIDEWALK OR CURB.
15. MAKE SURE TO FLUSH LATERAL LINES AND SPRINKLER BODIES PRIOR TO INSTALLING FILTER AND NOZZLE.

3/12/13

<p>APPROVED:            DIRECTOR OF PUBLIC WORKS          4/12/13          DATE</p>	<p style="text-align: center;"><b>CITY OF SIMI VALLEY</b></p> <hr style="width: 100%; border: 1px solid black;"/> <p style="text-align: center;">DEPARTMENT OF PUBLIC WORKS</p>	<p style="text-align: center;"><b>LANDSCAPE IRRIGATION SWING JOINT AND SPRINKLER/BUBBLER HEAD INSTALLATION DETAIL</b></p>	<p><b>STANDARD PLAN NO.</b>   <b>SV 52-40</b>           SHEET 2 OF 2</p>
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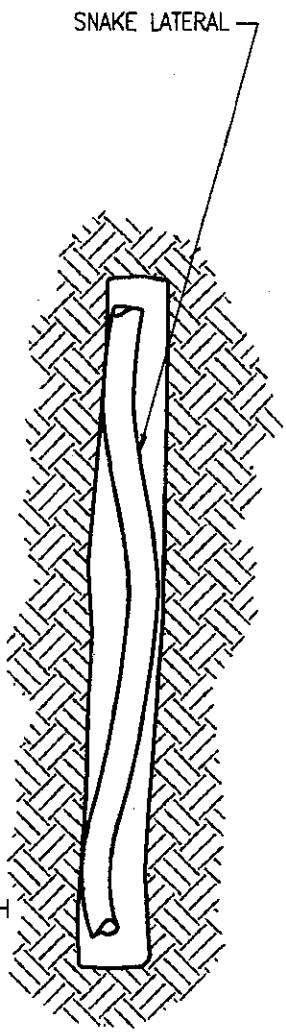


MAIN SUPPLY WITH WIRING  
TWO WHITE COMMON WIRES AND ALL  
OTHER WIRES WILL BE OF SEPARATE  
COLORS FOR EACH VALVE.  
PULL 3 EXTRA RED WIRES FROM  
CONTROLLER TO END OF MAIN AND SEAL  
AT EACH END.

**TRENCH SECTION**  
NOT TO SCALE

**NOTES:**

1. THE CITY REQUIRES ALL CITY IRRIGATION LINES TO BE FLUSHED UNTIL COMPLETELY CLEAR OF DEBRIS, AND IRRIGATION MAIN LINES PRESSURE TESTED AT 150 PSI FOR FOUR HOURS, WITH VALVES IN PLACE. THE TEST MUST BE COORDINATED IN THE PRESENCE OF A PUBLIC WORKS LANDSCAPE INSPECTOR.
2. TAPE WITH DUCT TAPE AND BUNDLE WIRE TO BOTTOM HALF OF MAIN LINE AT 10 FOOT INTERVALS. EACH IRRIGATION WIRE SHALL BE IN A DIFFERENT COLOR.
3. WHEN THE IRRIGATION CONTROLLER WIRES DO NOT FOLLOW THE ENTIRE MAIN LINE, PLEASE PLACE A 14 GAUGE SOLID COPPER INSULATED TRACE WIRE ALONG THE MAIN LINE, FROM THE BACK FLOW TO THE VALVES.
4. MAIN LINE PIPE SHALL BE SOLVENT WELDED WITH PRIMER (P-70) MEDIUM TO SLOW SET SOLVENT WELD MATERIAL IE: WELD-ON 2711 LOW VOC PVC PIPE CEMENT, OR PVC MANUFACTURER'S WRITTEN RECOMMENDATION.
5. INSTALL MAIN LINE ACCORDING TO MANUFACTURER'S SPECIFICATIONS. COMPACT SOIL BACK FILL TO 90% THROUGH WATER JETTING 4 INCHES OF SCREENED SAND REQUIRED AROUND MAIN LINE PRIOR TO WATER JET COMPACTION.
6. A MIN. OF 4 INCHES DIA. SCHEDULE 40 PVC PIPE MUST BE USED AS SLEEVE UNDER ALL PAVING. USE TWICE THE DIA. OF PIPE FOR SLEEVE SIZING, WITH 4 INCHES SCREENED SAND COVER. 36 INCHES OF COVER UNDER STREET, WITH 4 INCHES SCREENED SAND COVER.
7. IN EVENT 36 INCHES COVER CANNOT BE OBTAINED UNDER A STREET, 4 INCHES DIA. SCHEDULE 80 PVC, OR 4 INCHES DIA. SCHEDULE 40 GALVANIZED PIPE, MUST BE USED WITH 4 INCHES SCREENED SAND COVER AND TWO-SACK CONCRETE SLURRY COVER TO ASPHALT SECTION.
8. UNDER STAMPED CONCRETE IN MEDIANS, PLACE 4 INCHES DIA. SCHEDULE 40 PVC SLEEVE 28 INCHES UNDER BASE OF CONCRETE, EXTEND SLEEVE 1 FOOT BEYOND STAMPED CONCRETE, SHADE SLEEVE BELOW, ABOVE & AROUND WITH 4 INCHES OF SCREENED SAND.
9. ALL IRRIGATION WIRE MUST HAVE A SEPARATE 4 INCHES SLEEVE MEETING THE SAME STATED INSTALLATION CONDITIONS.
10. RECLAIMED WATER SHALL USE RECLAIMED WATER APPROVED PIPING SHALL BE SCH. 40 TO 2". CLASS 315 FOR LARGER DIA. SIZES.



**PLAN VIEW**  
NOT TO SCALE

6/3/10

APPROVED:  
  
DIRECTOR OF PUBLIC WORKS  
6/18/10  
DATE

CITY OF  
SIMI VALLEY  
DEPARTMENT OF PUBLIC WORKS


PVC IRRIGATION LINES,  
SLEEVING & TRENCHING

STANDARD PLAN NO.  
SV 52-50  
SHEET 1 OF 2

**NOTES: (continued)**

11. ALL ABOVE GROUND LATERAL OR MAIN MUST BE SUPPORTED THROUGH STAKING AT LEAST EVERY 5 FEET O.C. ANCHOR MUST BE AT LEAST #4 REINFORCED BAR AND 12 INCHES MIN. INTO GROUND AND COMPLETELY COVERING IRRIGATION LINE FOR SUPPORT ABOVE GROUND. PLACE IN GROUND ON THE DOWNHILL SIDE OF LINE. USE RUBBER HOSE OVER STAKING TO PROTECT WEAR ON IRRIGATION LINE. RAKE OVER LINE WITH ONE-TWO INCHES OF SOIL COVER TO PROTECT LINE.
12. ALL COMMUNICATION CABLES WILL BE SLEEVED WITH SOLVENT WELDED SCHEDULE 40 ELECTRICAL CONDUIT AT A MINIMUM OF TWICE DIAMETER OF THE CABLE.
13. ANY SPLICES OF COMMUNICATION CABLES WILL BE PLACED IN PROPERLY BRANDED SPLICE BOX AND WILL BE MARKED ON "AS BUILT" IRRIGATION PLANS.
14. ALL SLEEVES PASSING UNDER STREET AND MEDIAN CURBING SHALL BE MARKED WITH A 6" 'X'; NEATLY STAMPED ONTO TOP OF CURB'S INDICATING LOCATION.
15. ALL MAINLINES PASSING UNDER STREETS MUST HAVE A BALL VALVE INSTALLED IN A 12" MIN. VALVE BOX WITH A BOLT-DOWN LID, ON THE PRESSURE SIDE OF THE STREET. BRAND VALVE BOX LID PER STD. PLATE SV 51-19.
16. USE 14 GAUGE SOLID CORE INSULATED IRRIGATION WIRE FOR FIRST 5,000 LINEAR FEET. RUNS LONGER THAN 5,000 FEET, CHANGE TO APPROVED GAUGE AS DIRECTED BY DESIGN ARCHITECT.
17. TRENCHING OR BORING SHALL NOT EXCEED 36" BELOW GRADE WITHOUT WRITTEN AUTHORIZATION FROM LANDSCAPE MAINTENANCE SUPERVISOR.

6/3/10

<p>APPROVED:           DIRECTOR OF PUBLIC WORKS          DATE: 6/3/10</p>	<p>CITY OF          SIMI VALLEY          DEPARTMENT OF PUBLIC WORKS</p>	<p>PVC IRRIGATION LINES,          SLEEVING &amp; TRENCHING</p>	<p>STANDARD PLAN NO.          SV 52-50          SHEET 2 OF 2</p>
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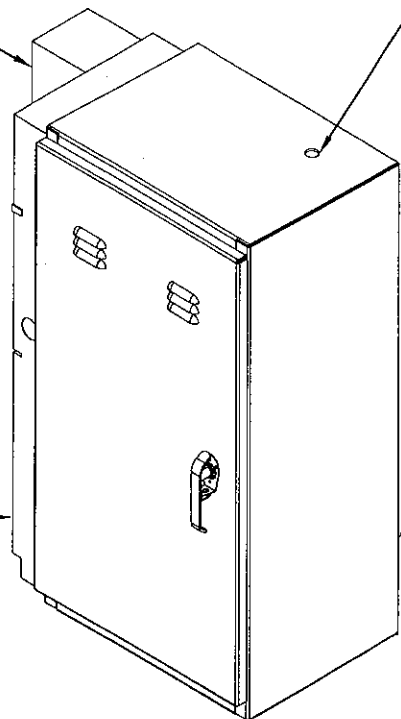
CATCHER'S MASK  
FOR METER  
RAINPROFF TYPE 3R  
ENCLOSURE

ANTENNA LOCATION  
SEE NOTE NO. 1, SHEET 6.

SEE NOTE NO. 1, SHEET 6  
FOR ORDERING INSTRUCTIONS,  
INSTALLATION, AND NOTES

ENCLOSURE  
MYERS TYPE II B  
ME-IIB / M100  
(COLOR-DESERT TAN)

PART NO. TO BE DETERMINED  
SEE NOTE NO. 1, SHEET 6

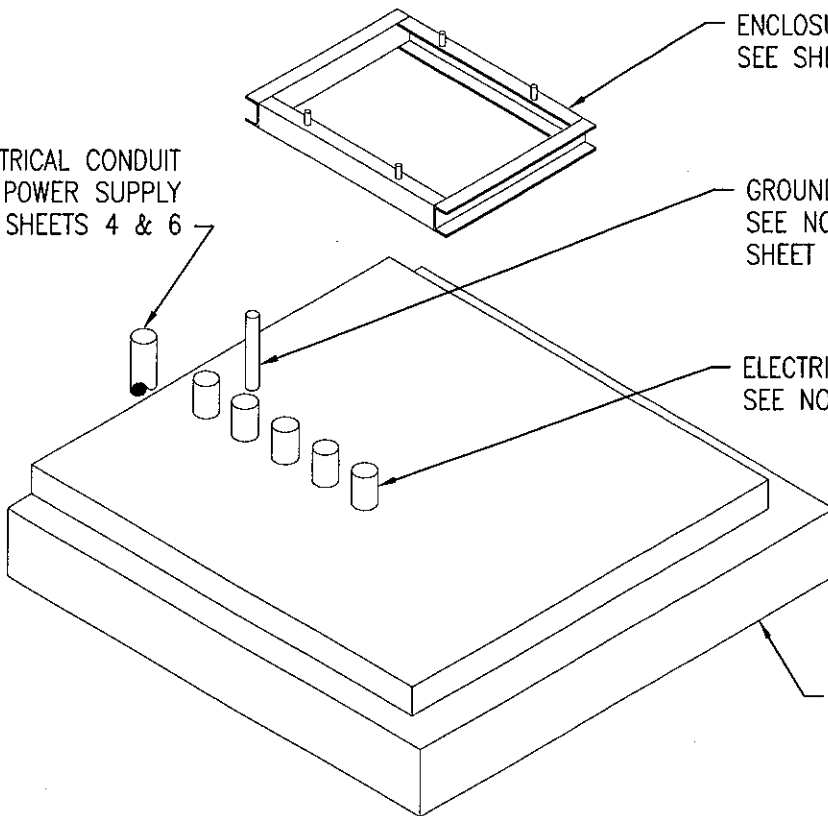


ELECTRICAL CONDUIT  
EDISON POWER SUPPLY  
SEE SHEETS 4 & 6

ENCLOSURE BASE  
SEE SHEET 3

GROUNDING ROD  
SEE NOTE NO. 4,  
SHEET 6

ELECTRICAL CONDUIT SWEEPS  
SEE NOTE NO. 13, SHEET 6



CONCRETE FOUNDATION  
SEE DETAIL, SHEET 3

6/12/12

APPROVED:

DIRECTOR OF PUBLIC WORKS

6/15/12  
DATE

CITY OF  
SIMI VALLEY

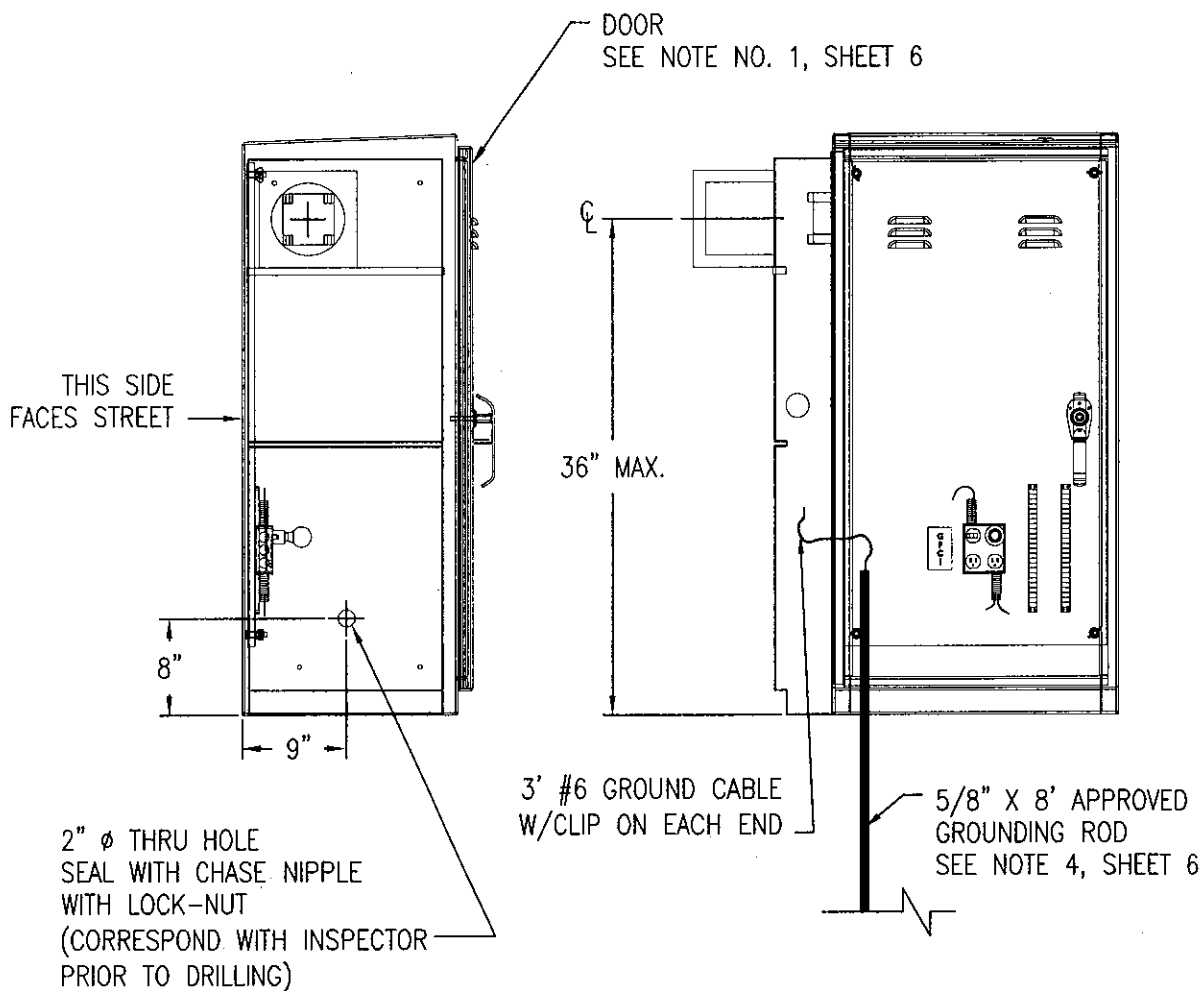
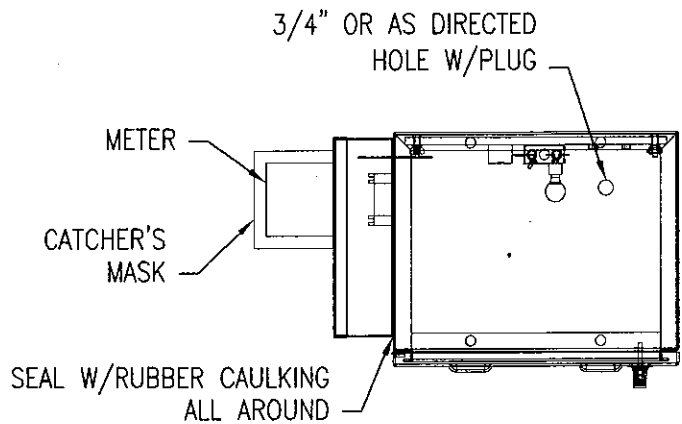
DEPARTMENT OF PUBLIC WORKS

IRRIGATION CONTROLLER  
SECURITY ENCLOSURES AND  
ELECTRICAL POWER SUPPLY  
INSTALLATION

STANDARD PLAN NO.

SV 52-60

SHEET 1 OF 6



1/17/13

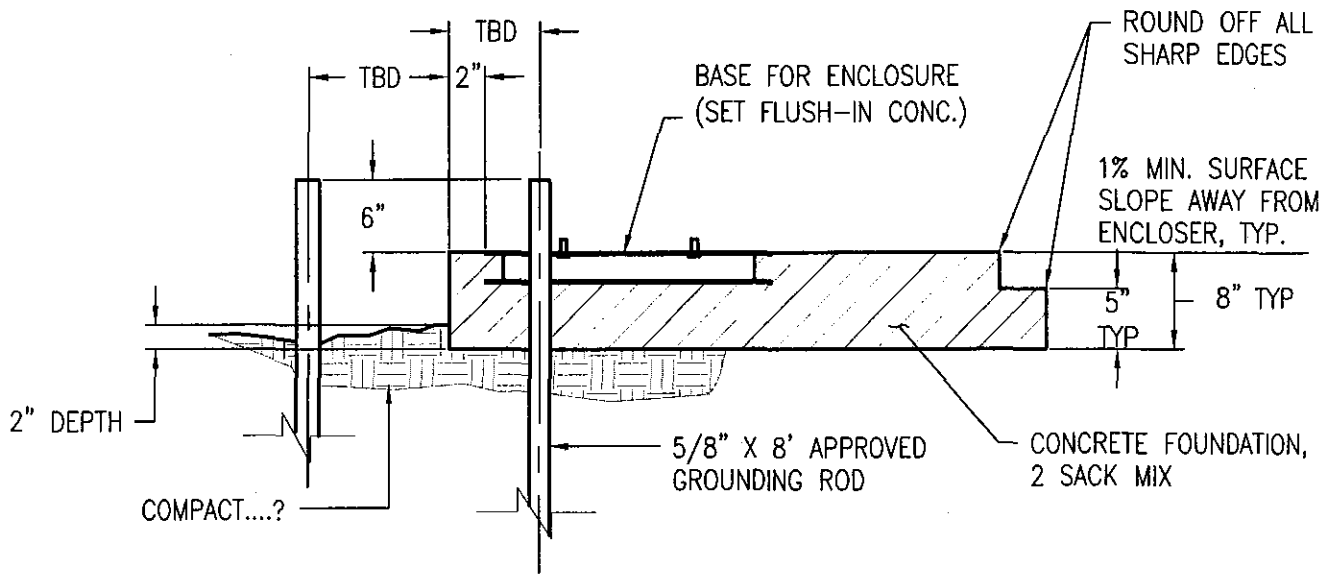
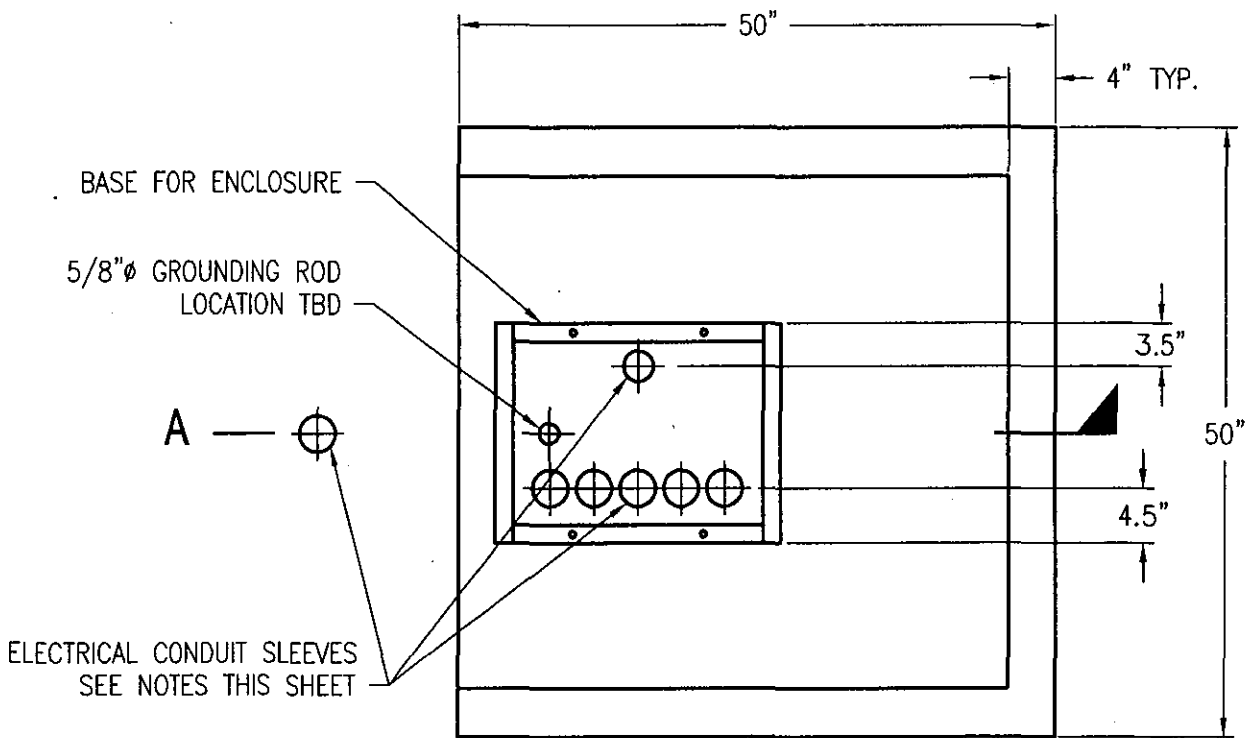
APPROVED:  
*[Signature]*  
DIRECTOR OF PUBLIC WORKS  
11/24/2013  
DATE

CITY OF  
SIMI VALLEY  
DEPARTMENT OF PUBLIC WORKS

IRRIGATION CONTROLLER  
SECURITY ENCLOSURES AND  
ELECTRICAL POWER SUPPLY  
INSTALLATION

STANDARD PLAN NO.  
SV 52-60  
SHEET 2 OF 6





**BASE AND FOUNDATION DETAIL**

**SECTION-A**

NOT TO SCALE

**NOTES:**

- ELECTRICAL CONDUIT SLEEVES NOT SHOWN IN SECTION-A FOR CLARITY.
- PRE-CONSTRUCTION MEETING IS MANDATORY WITH LANDSCAPE INSPECTOR PRIOR TO CONSTRUCTION.
- ELECTRICAL CONDUIT SLEEVE LOCATIONS TO BE DETERMINED PRIOR TO CONSTRUCTION.
- SEE DETAIL ON SHEET 4 FOR ADDITIONAL INFORMATION.
- ELECTRICAL CONDUIT SLEEVES & GROUNDING ROD TO BE INSTALLED PRIOR TO CONCRETE POUR.
- TOP OF BASE FOR ENCLOSURE SHALL BE SET FLUSH-INTO (2 SACK MIX) WET CONCRETE.

6/12/12

APPROVED:

*[Signature]*  
 DIRECTOR OF PUBLIC WORKS  
 6/15/12  
 DATE

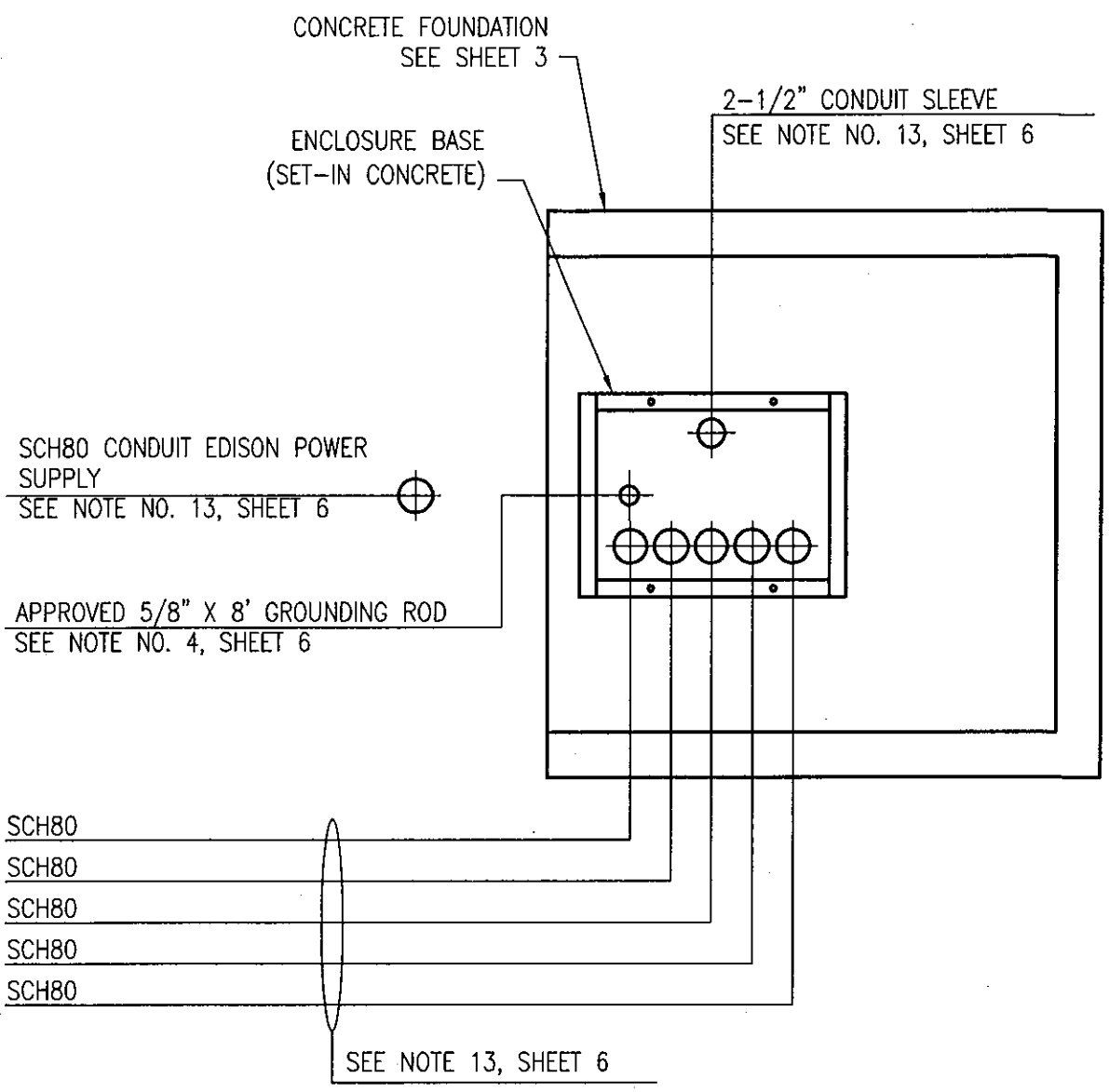
**CITY OF  
 SIMI VALLEY**  
 DEPARTMENT OF PUBLIC WORKS

**IRRIGATION CONTROLLER  
 SECURITY ENCLOSURES AND  
 ELECTRICAL POWER SUPPLY  
 INSTALLATION**

STANDARD PLAN NO.

**SV 52-60**

SHEET 3 OF 6



NOTES:

PRE-CONSTRUCTION MEETING IS MANDATORY WITH LANDSCAPE INSPECTOR PRIOR TO CONSTRUCTION TO DETERMINE ELECTRICAL CONDUIT SLEEVE AND SPLICE BOX INSTALLATION LOCATIONS AND INSTRUCTIONS.

INSTALL 12" SPLICE BOX FOR RECEIVING SWEEPS USING "BROCKS JUMBO BOX" WITH LOCKING "T-TOP" OR EQUAL.

ELECTRICAL CONDUIT SLEEVES & GROUNDING ROD TO BE INSTALLED PRIOR TO CONCRETE POUR.

6/12/12

APPROVED:  
*[Signature]*  
DIRECTOR OF PUBLIC WORKS  
6/15/12  
DATE

**CITY OF  
SIMI VALLEY**  
DEPARTMENT OF PUBLIC WORKS

**IRRIGATION CONTROLLER  
SECURITY ENCLOSURES AND  
ELECTRICAL POWER SUPPLY  
INSTALLATION**

STANDARD PLAN NO.  
**SV 52-60**  
SHEET 4 OF 6

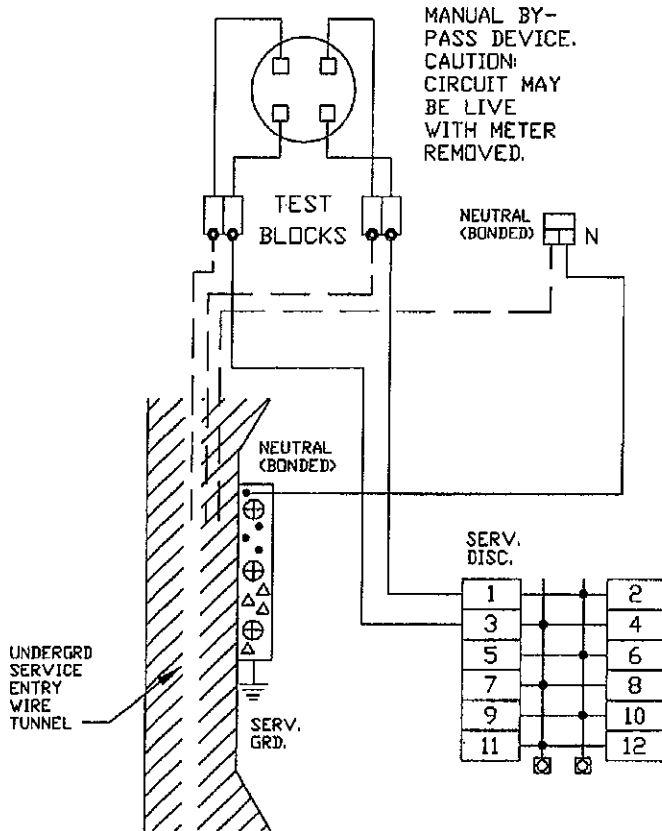
**MYERS**

POWER PRODUCTS.

2950 E. PHILADELPHIA ST., ONTARIO, CA. 91761

ME-IIB-M/M100 (MOD)  
120/240 VAC, 1 PHASE 3 WIRE 100 AMPS.  
RAINPROOF TYPE 3R, ENCLOSURE

METER SOCKET 100 AMPS CONTINUOUS.



INTERMEDIATE HANDLE TRIP POSITION:  
TO RESTORE POWER; TURN TO FULL OFF THEN ON.

BONDED NEUTRAL, REMOVE BONDING MEANS FOR TEST PURPOSES ONLY. SIMI-2  
CIRCUIT BREAKERS 100 AMPS OR LESS; WESTINGHOUSE BR, BRH, BQ, BD, GFCB, GFCBH, HQP, QPH, QP-GF;  
CROUSE-HINDS MP, MH, MP-GF; G.E. THQL, THQL-GF.

SHORT CIRCUIT RATING: RMS SYMMETRICAL AMPS 10,000 AT 120/240 VAC. THE SHORT CIRCUIT RATING IS LIMITED TO THE LOWEST INTERRUPTING CAPACITY OF ANY DEVICE INSTALLED THEREIN. REPLACEMENT BREAKERS MUST BE SAME TYPE AND RATING. FIELD INSTALLED CONDUCTORS SHOULD BE SIZED ON 60°C AMPACITY FOR 14-1 AWG. AND 75°C AMPACITY OVER 1 AWG PER TABLE 310-16 OF NEC.

WIRE CONNECTORS EXCEPT CIRCUIT BREAKERS:

SYMBOL	AL RANGE	CU RANGE	TORQUE:
⊗	12-10	14-1/0	50 LB IN
⊙	6-250MCM	6-250MCM	200 LB IN

WIRE CONNECTORS: USE AL/CU CONDUCTORS

SYMBOL RANGE TORQUE IN/LBS.

⊗ □ ▲	#6-250MCM	250
○	#14-10	32
	# 8	36
	# 6-4	41
	# 3-1/0	45
⊙	#14-10	18
	# 8	23
	# 6	32

EQUIPMENT GROUND TERMINATION:  
USE MORE THAN ONE CONDUCTOR PER OPENING FOR EQUIPMENT GRD. ONLY.

⊗	(1-2) #14-10	32
	(3) #10	50
	(1) # 8	36
	(1) # 6-4	41
	(1) # 3-1/0	45
⊙	(1-2) #14-10	18
	(1) # 8	23
	(1) # 6	32

CIRCUIT DIRECTORY

NO.	DESCRIPTION	AMP	POLE
1-2	SERV. DISC.	100	2
2	RECEPTACLE	20	1

6/12/12

APPROVED:

DIRECTOR OF PUBLIC WORKS

DATE

CITY OF  
SIMI VALLEY

DEPARTMENT OF PUBLIC WORKS

IRRIGATION CONTROLLER  
SECURITY ENCLOSURES AND  
ELECTRICAL POWER SUPPLY  
INSTALLATION

STANDARD PLAN NO.


SV 52-60

SHEET 5 OF 5

**NOTES:**

1. Prior to ordering the enclosure, a meeting will be required with the City of Simi Valley Landscape Inspector to approve the model and ordering specifications.
2. Powder coat 12 gauge stainless steel suggested model with powder coat inside and out enclosure with (1) coat primer (rust guard) and (2) coats rust inhibiting base enamel. Paint color shall be desert sand or alternate color approved by City of Simi Valley Landscape Inspector.
3. Max. size of service = 100a. Prefer 30a with max. of 2 circuits (1 for irrigation controller, 1 for G.F.C.I. receptacle W.P. cover) min. AIC rating of all breakers = 10,000a. 120/240v single phase 3 wire G.E. electric panel or exact equal, as approved by the City of Simi Valley Building and Safety Inspector.
4. Min. copper clad, steel ground rod size = 5/8" x 10' (8' min. in soil). Min. ground electrode conductor = #6 A.W.G. cu. Install as per N.E.C.
5. Meter enclosure shall be installed with a minimum 10 inches side clearance and a minimum 36 inches X 36 inches (square) working clearance. Assure positive drainage away from enclosure with concrete foundation.
6. Meter electrical conduit and meter clearance shall be installed per Southern Calif. Edison requirements:  
42" min. height from working surface (street grade) to center of meter.
7. Stencil address on meter side of box in black 3" letters, location assigned by City of Simi Valley Landscape Inspector or Building & Safety Electrical Inspector.
8. Install per local electrical requirements. The City of Simi Valley Building and Safety Inspector require inspection before a permit can be issued.
9. Enclosure shall be placed for ease of access, out of direct irrigation spray and screened as directed by City of Simi Valley Landscape Inspector.
10. Assure terminal strip(s) at base of irrigation controller per Inspector's directions to accommodate irrigation controller options.
11. Assure power shut off switch to irrigation controller at base or next to 110v junction box per Inspector's direction.
12. Assure GFI hot electrical outlet on irrigation controller side of electrical circuit.
13. Sleeves for SCH80 electrical conduit, use 3". For 24v wires, use 2-1/2" sleeves. For Edison, use 3" sleeves. For 110v and flow sensor and master valve, use 2" sleeves.
14. Attach electrical box to security box with stainless steel machine bolts and washers a minimum of 3 bolts per manufacturer's specification.
15. Clear rubber caulking top seam of electrical box and security box connection and entire base edge of box at concrete pad.
16. Call Building & Safety prior to pedestal facing.
17. Prior to acceptance of installation, all site irrigation shall be adjusted to not come into contact with security enclosure assembly.

6/12/12

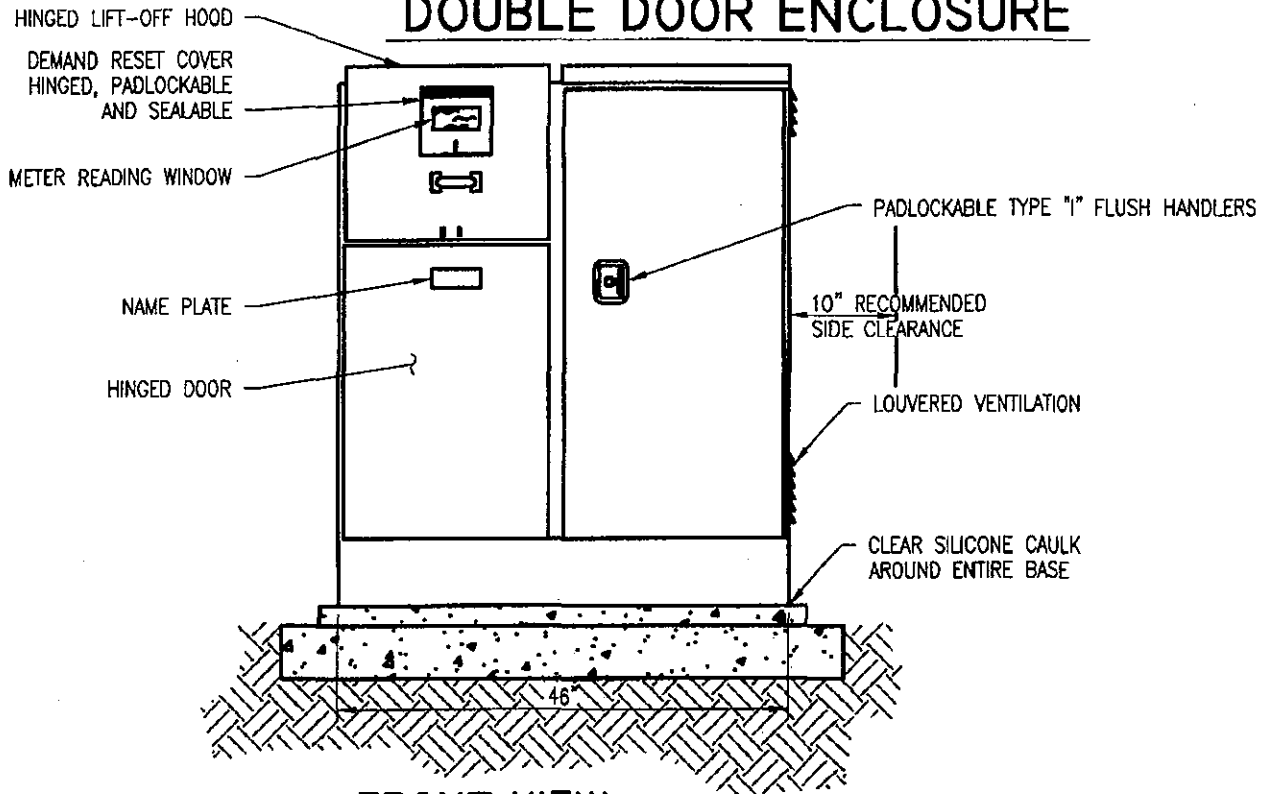
APPROVED:  
  
 DIRECTOR OF PUBLIC WORKS  
 6/15/12  
 DATE

**CITY OF  
 SIMI VALLEY**  
 DEPARTMENT OF PUBLIC WORKS

**IRRIGATION CONTROLLER  
 SECURITY ENCLOSURES AND  
 ELECTRICAL POWER SUPPLY  
 INSTALLATION**

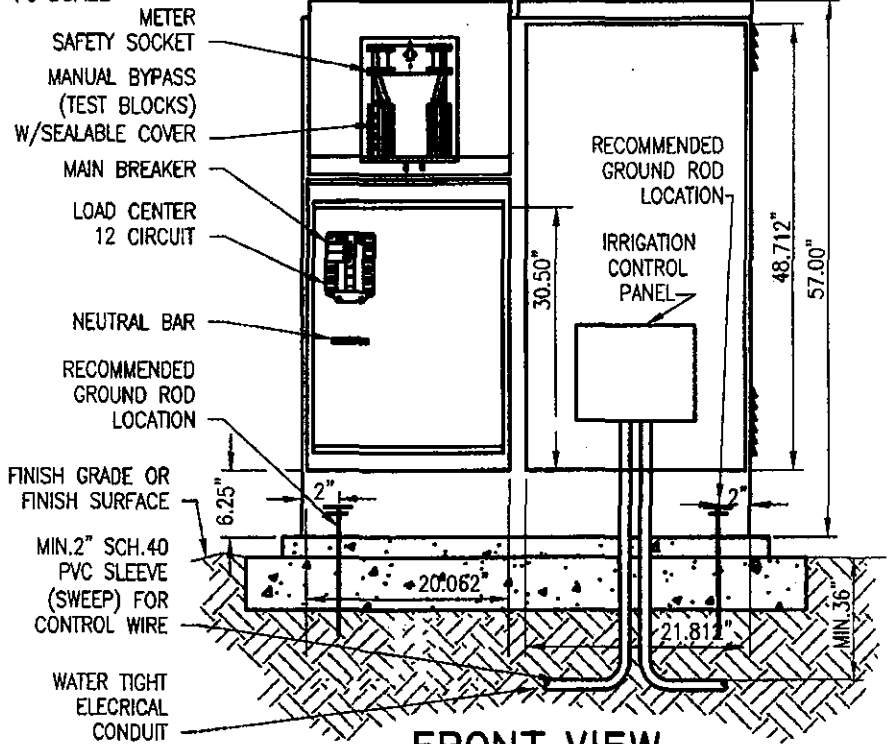
STANDARD PLAN NO.  
**SV 52-60**  
 SHEET 6 OF 6

# DOUBLE DOOR ENCLOSURE



## FRONT VIEW

NOT TO SCALE



## FRONT VIEW

LESS DOORS, DEADFRONT AND COVERS

\* CUSTOMER EQUIPMENT AREA: (LEFT) 30.50" x 20.00" x 8.25",  
 (RIGHT) 48.75" x 21.75" x 14.25"

6/3/10

APPROVED:  
  
 DIRECTOR OF PUBLIC WORKS  
 6/18/10  
 DATE

**CITY OF  
 SIMI VALLEY**  
 DEPARTMENT OF PUBLIC WORKS

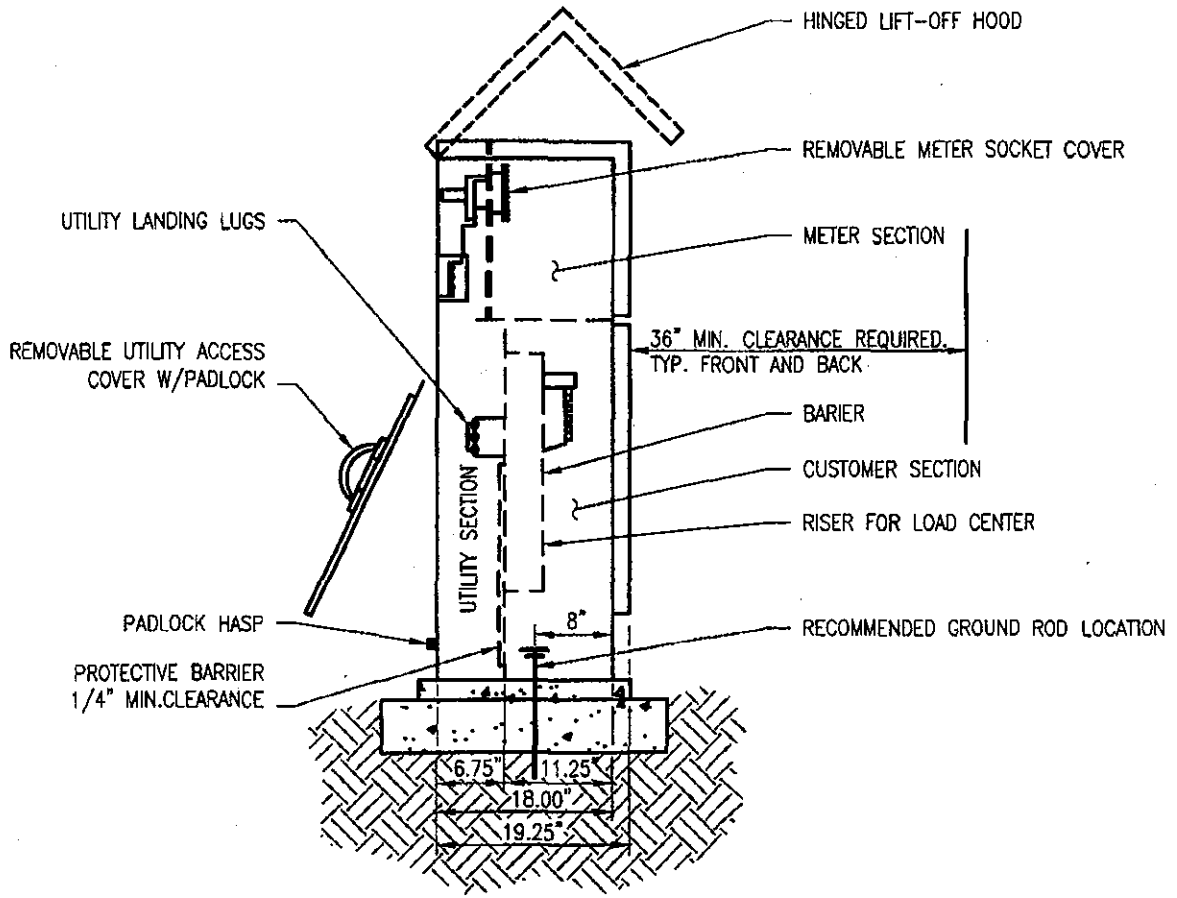
**TIME CLOCK AND ELECTRIC  
 METER DOUBLE DOOR  
 ENCLOSURE FOR LANDSCAPE  
 IRRIGATION ONLY**

STANDARD PLAN NO.

**SV 52-70**

SHEET 1 OF 6


# DOUBLE DOOR ENCLOSURE



**SIDE VIEW**

NOT TO SCALE

6/3/10

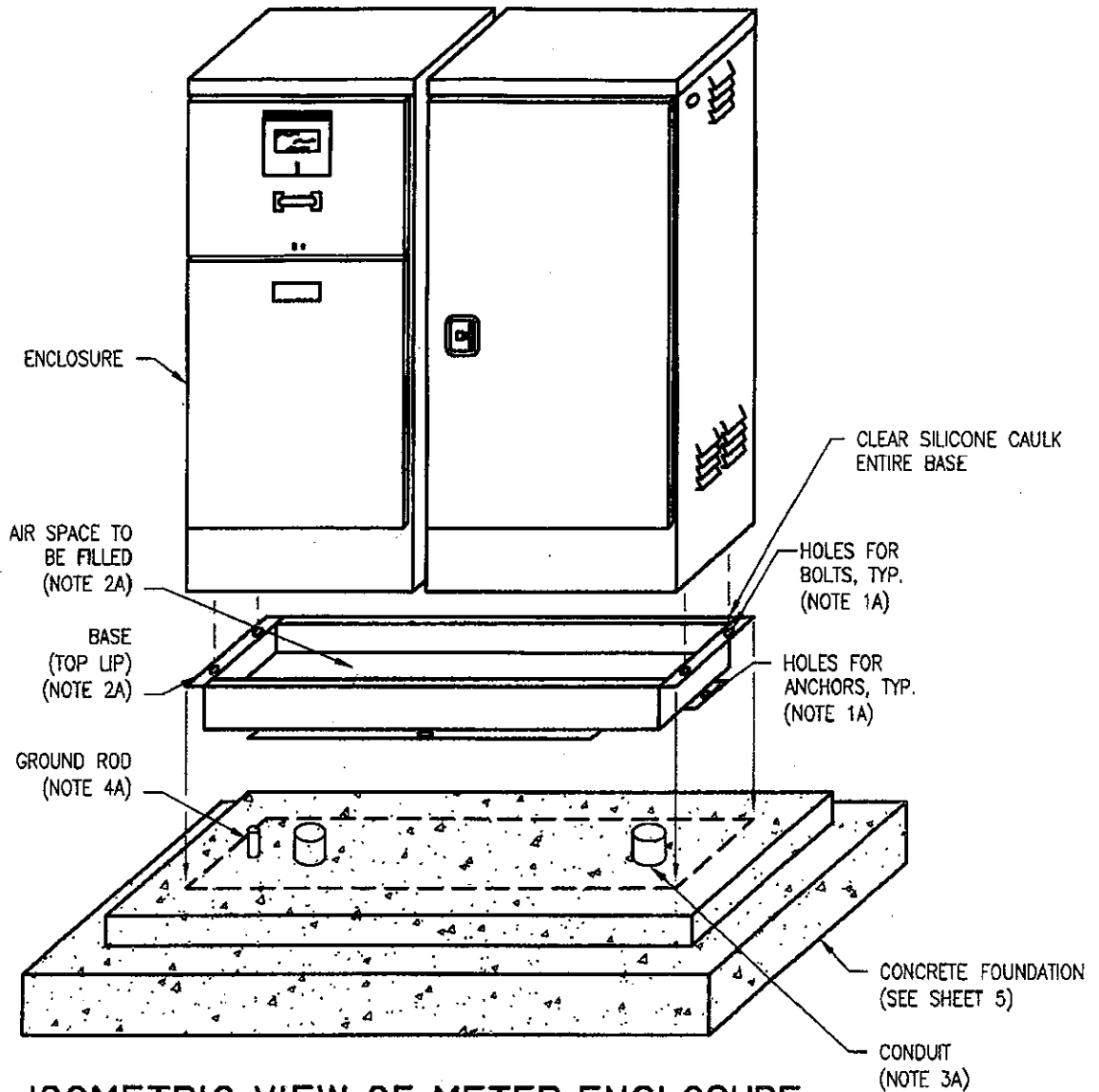
APPROVED:  
  
 DIRECTOR OF PUBLIC WORKS  
 6/8/10  
 DATE

**CITY OF  
 SIMI VALLEY**  
 DEPARTMENT OF PUBLIC WORKS

**TIME CLOCK AND ELECTRIC  
 METER DOUBLE DOOR  
 ENCLOSURE FOR LANDSCAPE  
 IRRIGATION ONLY**

STANDARD PLAN NO.  
**SV 52-70**  
 SHEET 2 OF 6

# DOUBLE DOOR ENCLOSURE



**ISOMETRIC VIEW OF METER ENCLOSURE,  
BASE AND FOUNDATION**

NOT TO SCALE

**NOTES:**

- 1A SECURE ALL BOLTS AND ANCHORS TO TOP LIP OF BASE. TAPE/PROTECT THREADS OF BOLTS BEFORE INSERTING BASE INTO CONCRETE.
- 2A PUSH-IN AND MANEUVER BASE INTO WET CONCRETE UNTIL TOP LIP OF BASE IS FLUSH WITH TOP SURFACE OF CONCRETE. THEN FILL THE AIR SPACE WITHIN THE BASE WITH CONCRETE AND SMOOTH OUT SURFACE OF CONCRETE. SEE SHEET 3 BASE AND FOUNDATION DETAILS.
- 3A MAINTAIN CONDUIT 2"-4" ABOVE CONCRETE PAD SURFACE.
- 4A INSTALL GROUND ROD PER ELECTRICAL CODE SPECIFICATIONS.

6/3/10

APPROVED:   
 DIRECTOR OF PUBLIC WORKS  
 DATE: 6/18/10

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SIMI VALLEY**  
 DEPARTMENT OF PUBLIC WORKS

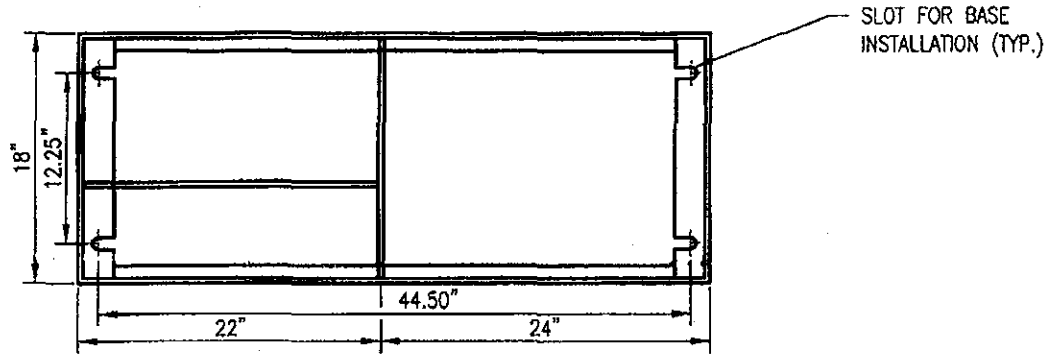
**TIME CLOCK AND ELECTRIC  
METER DOUBLE DOOR  
ENCLOSURE FOR LANDSCAPE  
IRRIGATION ONLY**

STANDARD PLAN NO.

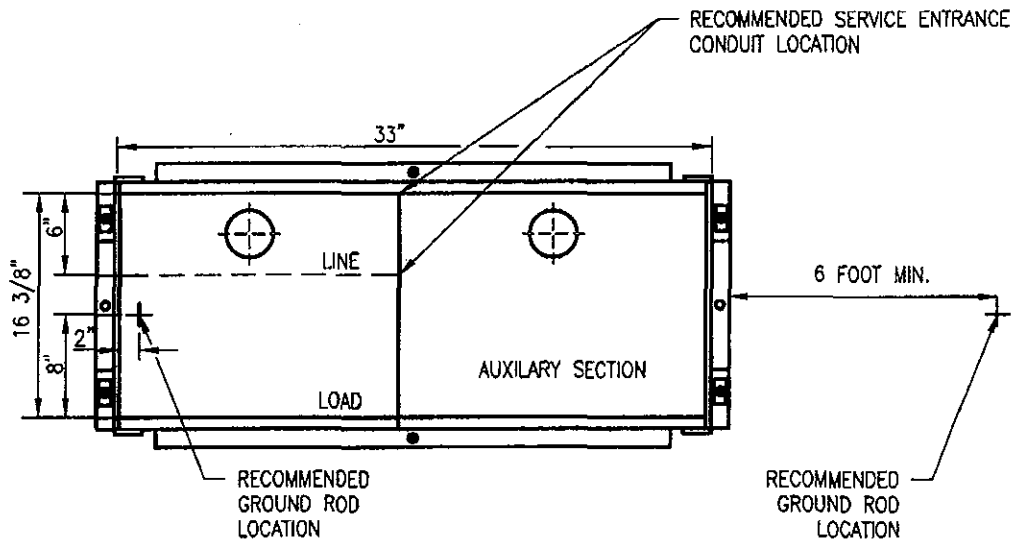
**SV 52-70**

SHEET 3 OF 6

# DOUBLE DOOR ENCLOSURE



**BOTTOM VIEW-ENCLOSURE  
MOUNTING SLOT DETAIL**  
NOT TO SCALE



**BASE DETAIL**  
NOT TO SCALE

6/3/10

APPROVED:   
DIRECTOR OF PUBLIC WORKS  
DATE: 6/18/10

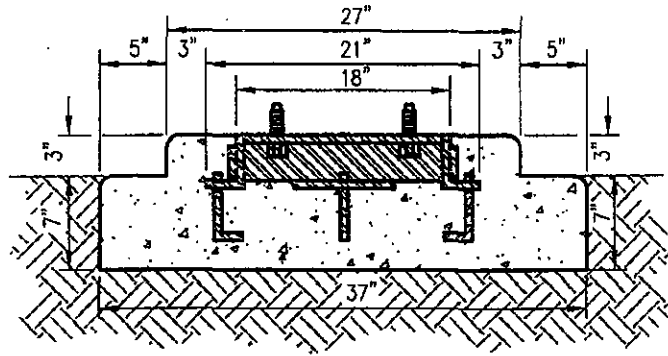
CITY OF  
SIMI VALLEY  
DEPARTMENT OF PUBLIC WORKS

**TIME CLOCK AND ELECTRIC  
METER DOUBLE DOOR  
ENCLOSURE FOR LANDSCAPE  
IRRIGATION ONLY**

STANDARD PLAN NO.  
**SV 52-70**  
SHEET 4 OF 6

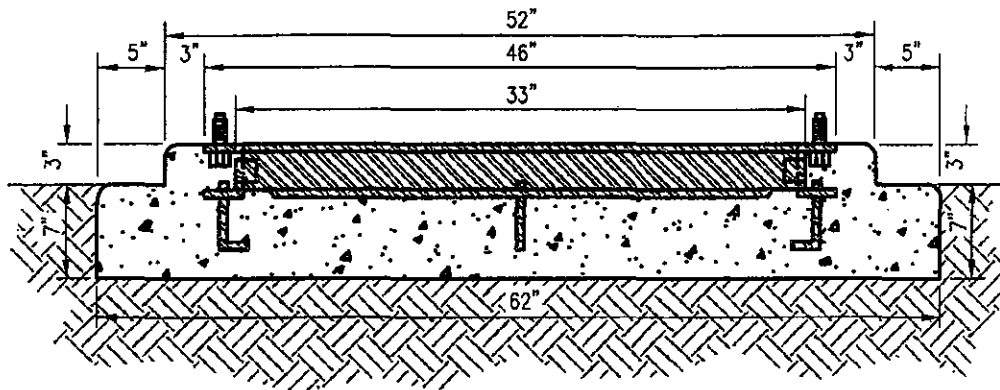


# DOUBLE DOOR ENCLOSURE



**BASE AND FOUNDATION DETAIL**  
**SIDE VIEW**

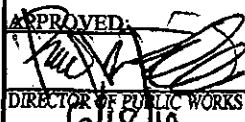
NOT TO SCALE



**BASE AND FOUNDATION DETAIL**  
**FRONT VIEW**

NOT TO SCALE

6/3/10

APPROVED:  
  
DIRECTOR OF PUBLIC WORKS  
6/18/10  
DATE

CITY OF  
SIMI VALLEY  
DEPARTMENT OF PUBLIC WORKS


TIME CLOCK AND ELECTRIC  
METER DOUBLE DOOR  
ENCLOSURE FOR LANDSCAPE  
IRRIGATION ONLY

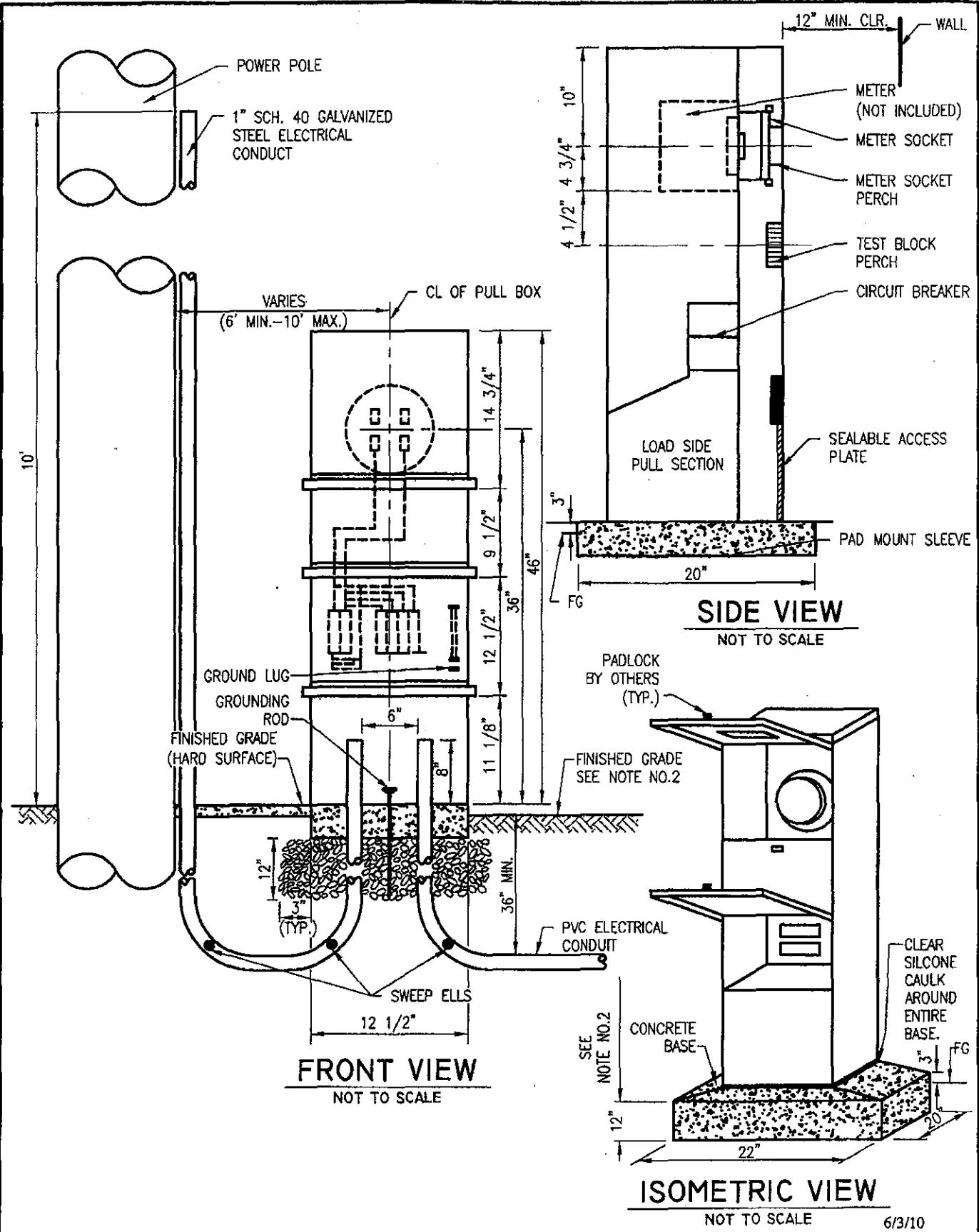
STANDARD PLAN NO.  
SV 52-70  
SHEET 5 OF 6

**NOTES:**

1. PRIOR TO ORDERING THE ENCLOSURE REQUIRED IS A MEETING WITH CITY OF SIMI VALLEY LANDSCAPE INSPECTOR FOR APPROVAL OF THE MODEL.
2. POWDER COAT 12 GAUGE (14 GAUGE FOR HOOD AND COVERS) STAINLESS STEEL (SUGGESTED MODEL MEUG46X BY MYERS CUSTOM PRODUCTS TEL:1-800-733-7872) WITH #4 FINISH WITH POWDER COAT INSIDE AND OUT ENCLOSURE WITH (1) COAT PRIMER (RUST GUARD) AND (2) COATS RUST INHIBITING BASE ENAMEL. PAINT COLOR SHALL BE DESERT SAND OR ALTERNATE COLOR APPROVED BY CITY OF SIMI VALLEY LANDSCAPE INSPECTOR.
3. MAX. SIZE OF SERVICE = 100A. PREFER 30A WITH MAX. OF 2 CIRCUITS (1 FOR IRR. CONTROLLER, 1 FOR G.F.C.I. RECEPTACLE W.P. COVER) MIN. A.E.C. RATING OF ALL BREAKERS = 10,000 A. 120/240 V. SINGLE PHASE 3 WIRE G.E. ELECTRIC PANEL OR EXACT EQUAL, AS APPROVED BY THE CITY OF SIMI VALLEY BUILDING AND SAFETY INSPECTOR.
4. MIN. COPPER CLAD, STEEL GND. ROD SIZE = 1/2" X 10' (8' MIN. IN SOIL).  
MIN. GND. ELECTRODE CONDUCTOR = #10 A.W.G. CU. INSTALL AS PER N.E.C.
5. METER ENCLOSURE SHALL BE INSTALLED WITH A MINIMUM 10 INCHES SIDE CLEARANCE AND A MINIMUM 36 INCHES FRONT AND BACK CLEARANCE. ASSURE POSITIVE DRAINAGE AWAY FROM ENCLOSURE WITH CONCRETE FOUNDATION.
6. METER ELECTRICAL CONDUIT AND METER CLEARANCE SHALL BE INSTALLED PER SOUTHERN CALIF. EDISON REQUIREMENTS:
  - 36" MIN. HEIGHT FROM WORKING SURFACE TO CENTER OF METER.
  - A MIN. OF 9" FROM SECURITY ENCLOSURE TOP FLANGE TO METER CENTER
  - MIN. OF 10" FROM LEFT SIDE OF SECURITY ENCLOSURE FLANGE TO CENTER OF METER.
7. STENCIL ADDRESS ON BOX IN BLACK 3" LETTERS, LOCATION ASSIGNED BY CITY OF SIMI VALLEY LANDSCAPE INSPECTOR.
8. CONTACT ALL SPEC. ENCLOSURES, OR OTHER EQUAL MANUFACTURING COMPANY FOR DOUBLE LOCK CAPACITY (SOUTHERN CA. EDISON AND CITY OF SIMI VALLEY) LOCKING SYSTEM AND ELECTRICAL METER CUT OUT HOLE IN DOOR PANEL. PHONE (909) 654-550, FAX (909) 654-5150.
9. INSTALL PER LOCAL ELECTRICAL REQUIREMENTS. REQUIRED IS INSPECTION BY CITY OF SIMI VALLEY BUILDING AND SAFETY INSPECTOR.
10. ENCLOSURE SHALL BE PLACED FOR EASE OF ACCESS, OUT OF DIRECT IRRIGATION SPRAY AND SCREENED AS DIRECTED BY CITY OF SIMI VALLEY LANDSCAPE INSPECTOR.
11. ASSURE TERMINAL STRIP(S) TO ACCOMODATE IRRIGATION CONTROLLER OPTIONS.
12. ASSURE POWER SHUT OFF SWITCH TO IRRIGATION CONTROLLER.
13. ASSURE GFI HOT ELECTRICAL OUTLET ON IRRIGATION CONTROLLER SIDE.
14. OTHER SOUTHERN CALIFORNIA EDISON AND CITY OF SIMI VALLEY BUILDING AND SAFETY APPROVED ENCLOSURE MAY BE CONSIDERED

6/3/10

<p>APPROVED:           DIRECTOR OF PUBLIC WORKS          6/3/10          DATE</p>	<p>CITY OF          SIMI VALLEY          DEPARTMENT OF PUBLIC WORKS</p>	<p>TIME CLOCK AND ELECTRIC          METER DOUBLE DOOR          ENCLOSURE FOR LANDSCAPE          IRRIGATION ONLY</p>	<p>STANDARD PLAN NO.          SV 52-70          SHEET 6 OF 6</p>
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APPROVED:  
  
 DIRECTOR OF PUBLIC WORKS  
 6/18/10  
 DATE

**CITY OF SIMI VALLEY**  
 DEPARTMENT OF PUBLIC WORKS


**ELECTRICAL SERVICE**  
**PEDESTAL**

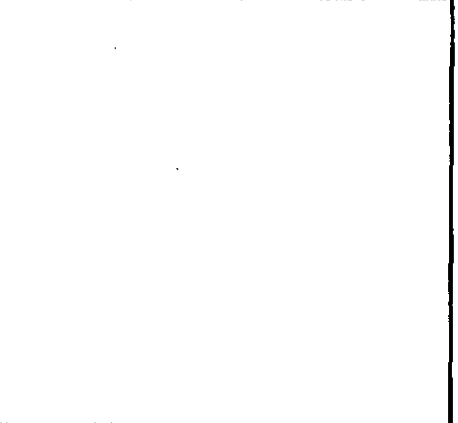
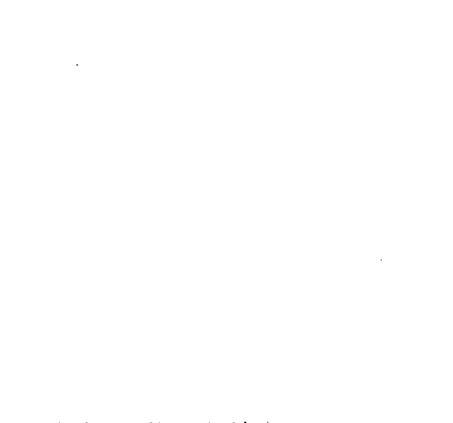
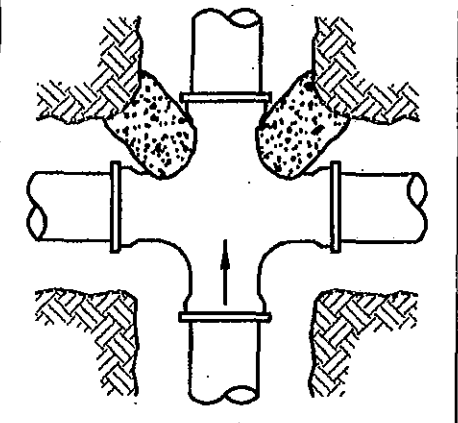
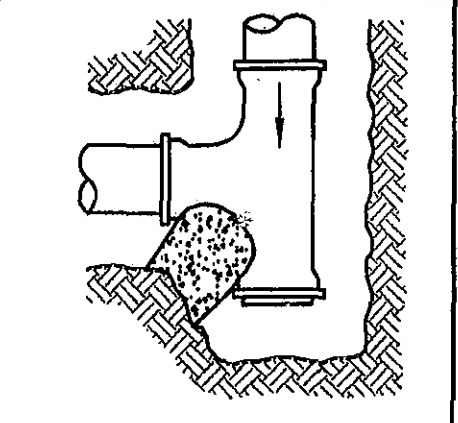
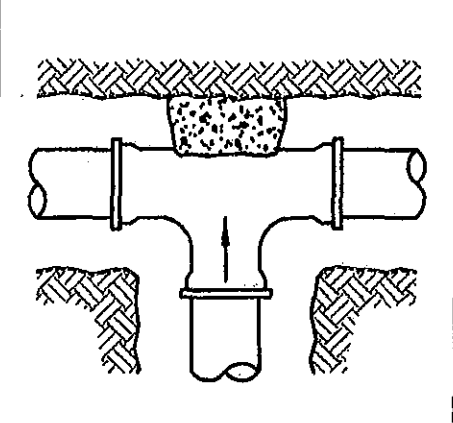
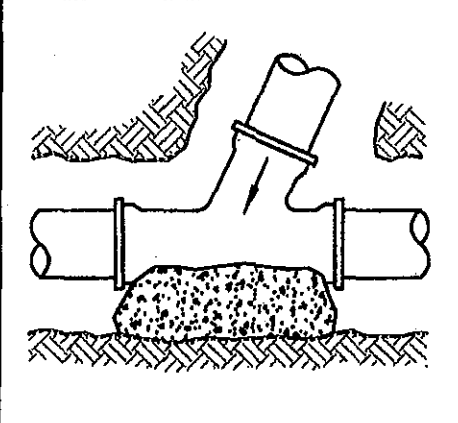
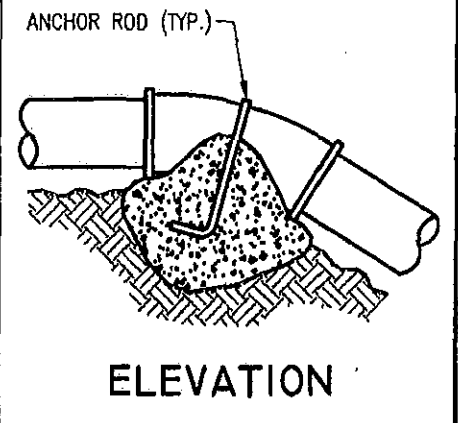
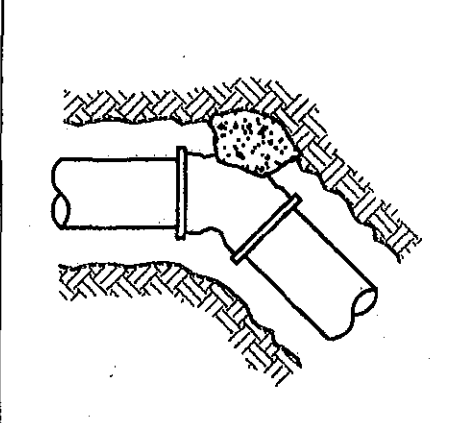
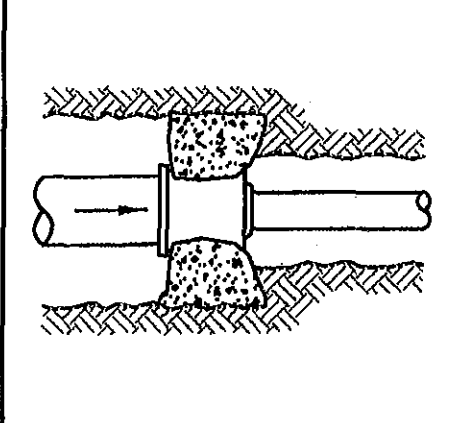
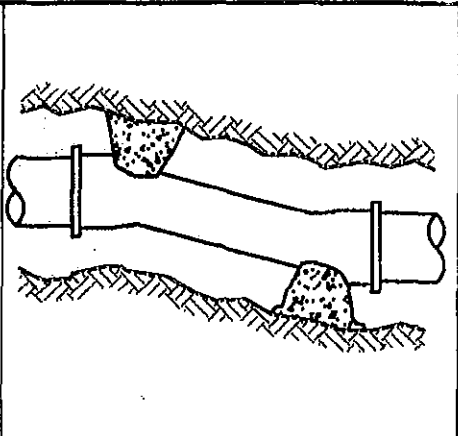
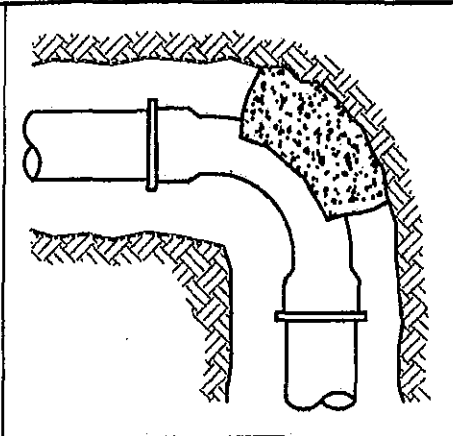
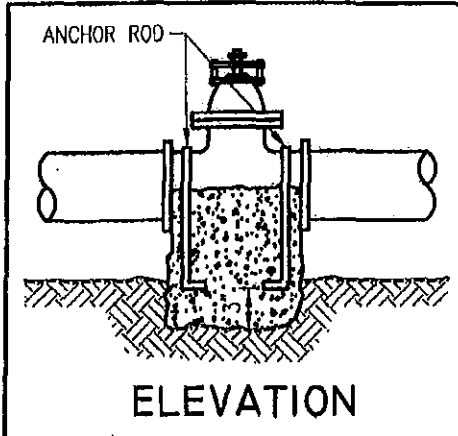
STANDARD PLAN NO.  
**SV 52-75**  
 SHEET 1 OF 2


**NOTES:**

1. AREA AROUND BOX CAN EITHER BE PLANTED, HARD SURFACED, OR A COMBINATION.
2. CONSTRUCT TOP OF CONCRETE BASE:
  - 3 INCHES ABOVE GRADE
  - 12" IN TOTAL DEPTH.
3. CONCRETE BASE SHALL BE CLASS 520-C-2500 CONCRETE WITH FOUR #4 REBARS TIED TOGETHER IN A SQUARE PATTERN 3" INSIDE FROM FORM.
4. FILL PAD MOUNT WITH 1 INCH CRUSHED ROCK 12 INCHES DEEP.
5. MATERIAL:  
BODY: 12 GAUGE GALVANIZED. FRONT AND COVERS 16 GAUGE GALVANIZED.  
FINISH: IRON PHOSPHATE DIP, ZINC CHROMATE PRIME, GREEN BAKED ENAMEL.  
2 POLE MAIN (100 AMP) CIRCUIT BREAKER.
6. INSTALL MIN. GND. ELECTRODE CONDUCTOR = #10 A.W.G. CU. INSTALL AS PER N.E.C.  
MIN. COPPER-CLAD, STEEL GND. ROD SIZE= 1/2" X 10' (8' MIN. IN SOIL)
7. INSTALL PER LOCAL ELECTRICAL REQUIREMENTS. REQUIRED INSPECTION BY CITY OF SIMI VALLEY PUBLIC WORKS INSPECTOR AND BY CITY OF SIMI VALLEY BUILDING AND SAFETY INSPECTOR.
8. ALL ENCLOSURES SHOULD BE PLACED FOR EASE OF ACCESS OUT OF DIRECT IRRIGATION SPRAY AND SCREENED AS DIRECTED BY CITY OF SIMI VALLEY LANDSCAPE INSPECTOR.

6/3/10

<p>APPROVED:  DIRECTOR OF PUBLIC WORKS 6/18/10 DATE</p>	<p>CITY OF SIMI VALLEY DEPARTMENT OF PUBLIC WORKS</p>	<p>ELECTRICAL SERVICE PEDESTAL</p>	<p>STANDARD PLAN NO. SV 52-75 SHEET 2 OF 2</p>
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APPROVED:   
 DIRECTOR OF PUBLIC WORKS  
 10-2-108  
 DATE


CITY OF  
 SIMI VALLEY  
 DEPARTMENT OF PUBLIC WORKS

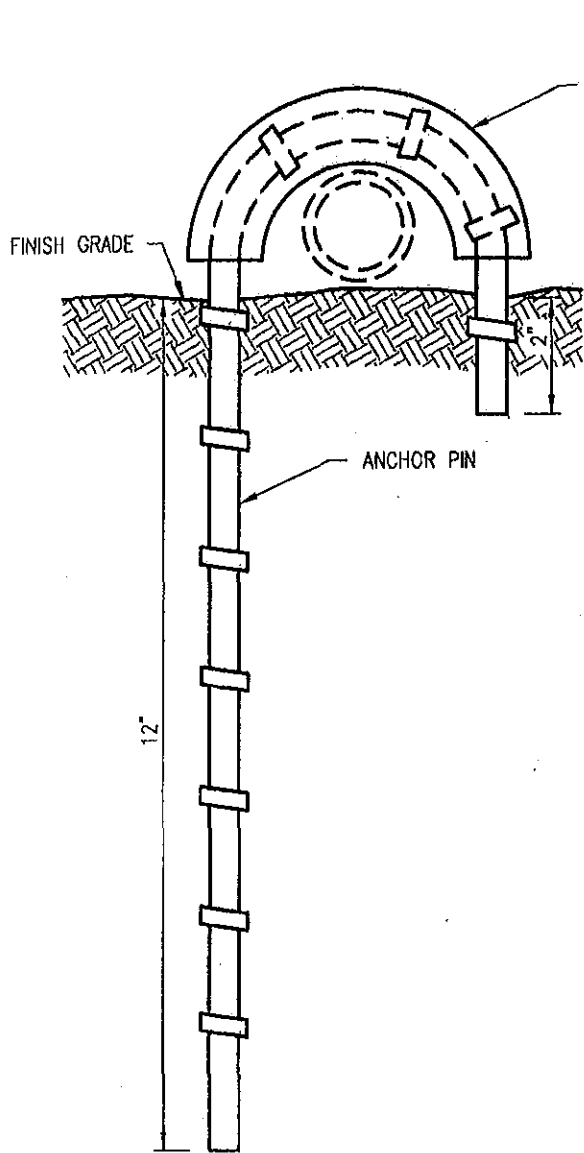
THRUST BLOCKS  
 FOR PLASTIC PIPE

STANDARD PLAN NO.  
 SV 52-80  
 SHEET 1 OF 2

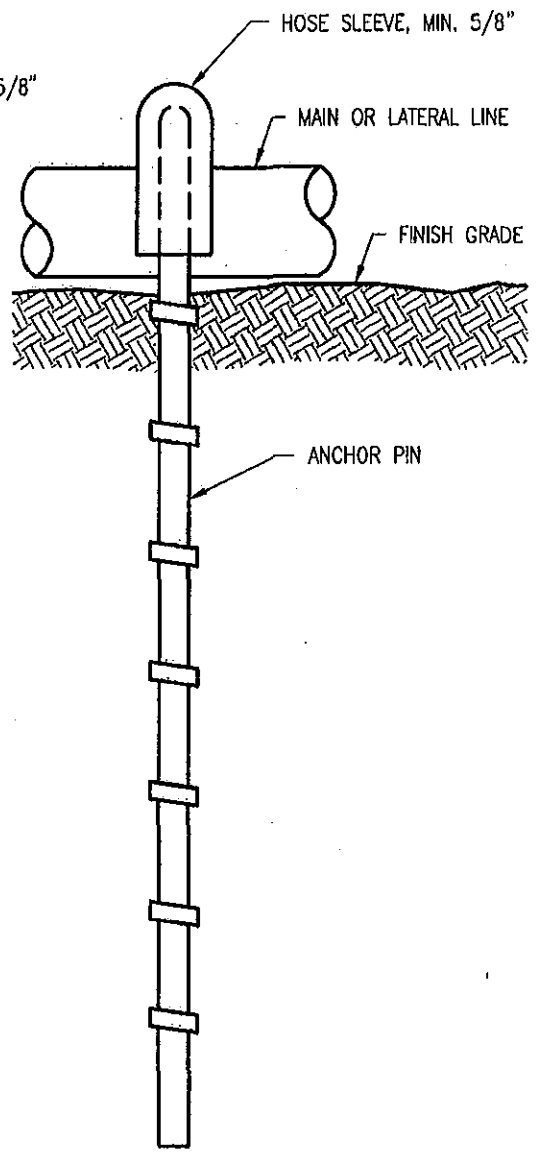
**NOTES:**

1. ALL PLASTIC PIPE TO BE INSTALLED ACCORDING TO THESE DETAILS UNLESS OTHERWISE NOTED OR DETAILED.
2. THE PORTLAND CEMENT CONCRETE USED FOR THRUST BLOCKS SHALL BE 450-C-2000 CLASS CONCRETE.
3. ALL ANCHOR RODS SHALL BE GALVANIZED STEEL, MINIMUM 1/2 INCH DIAMETER, WRAPPED AROUND PIPE.
4. SIZE OF THRUST BLOCKS SHALL BE SPECIFIED ON PLANS.
5. THRUST BLOCKS SHALL BE USED FOR PLASTIC PIPES WITH 3 INCHES DIAMETER OR LARGER.
6. FLOW DIRECTION INDICATED BY ARROWS →
7. ALL VIEWS ARE PLAN VIEWS UNLESS OTHERWISE SHOWN.
8. ALL JOINTS TO BE TAPED WITH TEFLON.
9. ALL JOINTS IN THRUST BLOCKS SHALL BE WRAPPED WITH PLUMBERS WRAP.
10. ALL SECTIONS OF PIPE AND FITTINGS SHALL BE WRAPPED WITH 10 MIL PVC WRAP PRIOR TO COVERING WITH CONCRETE. USE CONTAINMENT SYSTEMS IE TRUST FORM SYSTEM TO PROTECT PIPES.

<p>APPROVED:  DIRECTOR OF PUBLIC WORKS 10/21/08 DATE</p>	<p>CITY OF SIMI VALLEY DEPARTMENT OF PUBLIC WORKS</p>	<p>THRUST BLOCKS FOR PLASTIC PIPE</p>	<p>STANDARD PLAN NO. SV 52-80 SHEET 2 OF 2</p>
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**ELEVATION**  
NOT TO SCALE



**SIDE VIEW**  
NOT TO SCALE

**NOTES:**

1. ANCHOR SHALL BE PLACED NO GREATER THAN 15 FEET APART FOR LATERAL LINE AND AT EACH HEAD.
2. ANCHOR SHALL BE SPACED 10 FEET ON CENTER FOR MAIN LINE.
3. ANCHOR SHALL BE #4 REINFORCING BAR.
4. THE 12 INCHES LEG OF THE ANCHOR PIN SHALL BE PLACED ON THE DOWN HILL SIDE FOR ALL SLOPE AREAS.

APPROVED:  
  
 DIRECTOR OF PUBLIC WORKS  
 10/21/08  
 DATE

CITY OF  
 SIMI VALLEY  
 DEPARTMENT OF PUBLIC WORKS

**PIPE PINNING**

STANDARD PLAN NO.  
 SV 52-90  
 SHEET 1 OF 1

JUMBO VALVE BOX PER PLATE 52-20 "120V  
ELECTRIC" CAST IN LOCKING COVER  
10 1/2" x 17 1/4" x 12"

SEE NOTE NO.2

FINISH GRADE

WATERPROOF CONNECTOR (DS 400 BY SPEARS OR PEN TIGHT)

HARD SURFACE

PROVIDE 24" EXPANSION  
LOOP FOR EACH WIRE

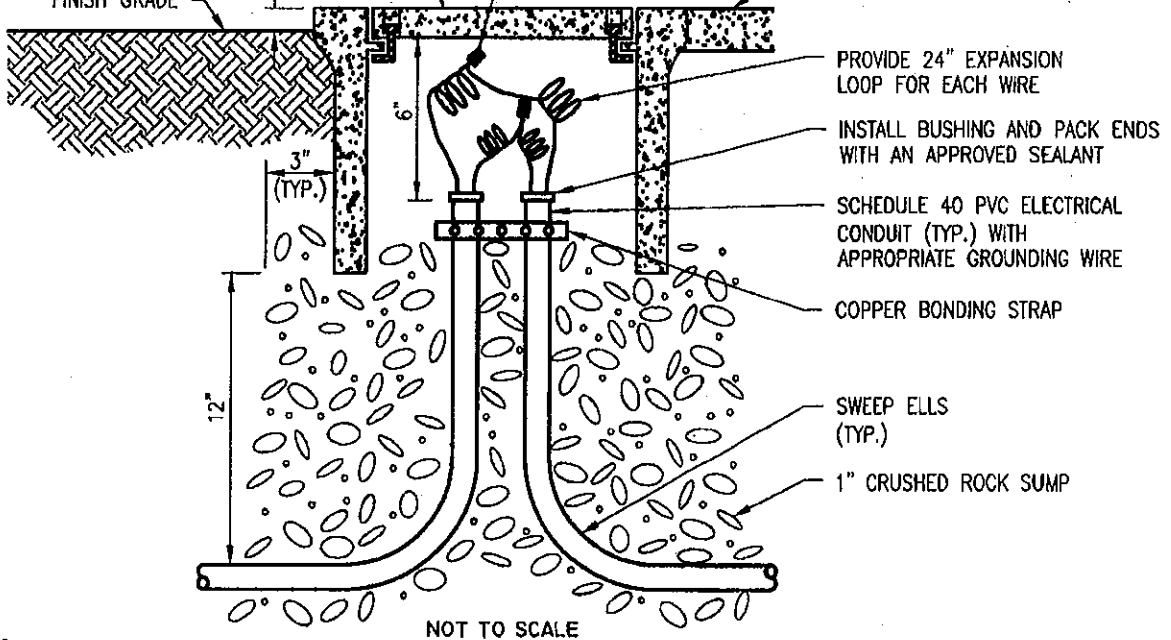
INSTALL BUSHING AND PACK ENDS  
WITH AN APPROVED SEALANT

SCHEDULE 40 PVC ELECTRICAL  
CONDUIT (TYP.) WITH  
APPROPRIATE GROUNDING WIRE

COPPER BONDING STRAP

SWEEP ELLS  
(TYP.)

1" CRUSHED ROCK SUMP



**NOTES:**

1. AREA AROUND BOX CAN EITHER BE PLANTED, HARD SURFACE OR A COMBINATION OF BOTH.
2. INSTALL TOP OF BOX:
  - 1/2 INCH ABOVE GRADE FOR LAWN,
  - 2 INCHES ABOVE GRADE FOR GROUND COVER OR SHRUBS.
3. CRUSHED ROCK SHALL COVER VALVE BOX PIPE OPENINGS TO PREVENT SOIL ENTRY.
4. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, PRIOR TO PURCHASE, THE TYPE OF WATERPROOF CONNECTION THAT WILL BE USED.
5. THIS IS HIGH VOLTAGE INSTALLATION. USE **[HV]** SYMBOL ON PLANS.
6. REQUIRED IS INSPECTION BY CITY OF SIMI VALLEY BUILDING AND SAFETY INSPECTOR.

10/6/10

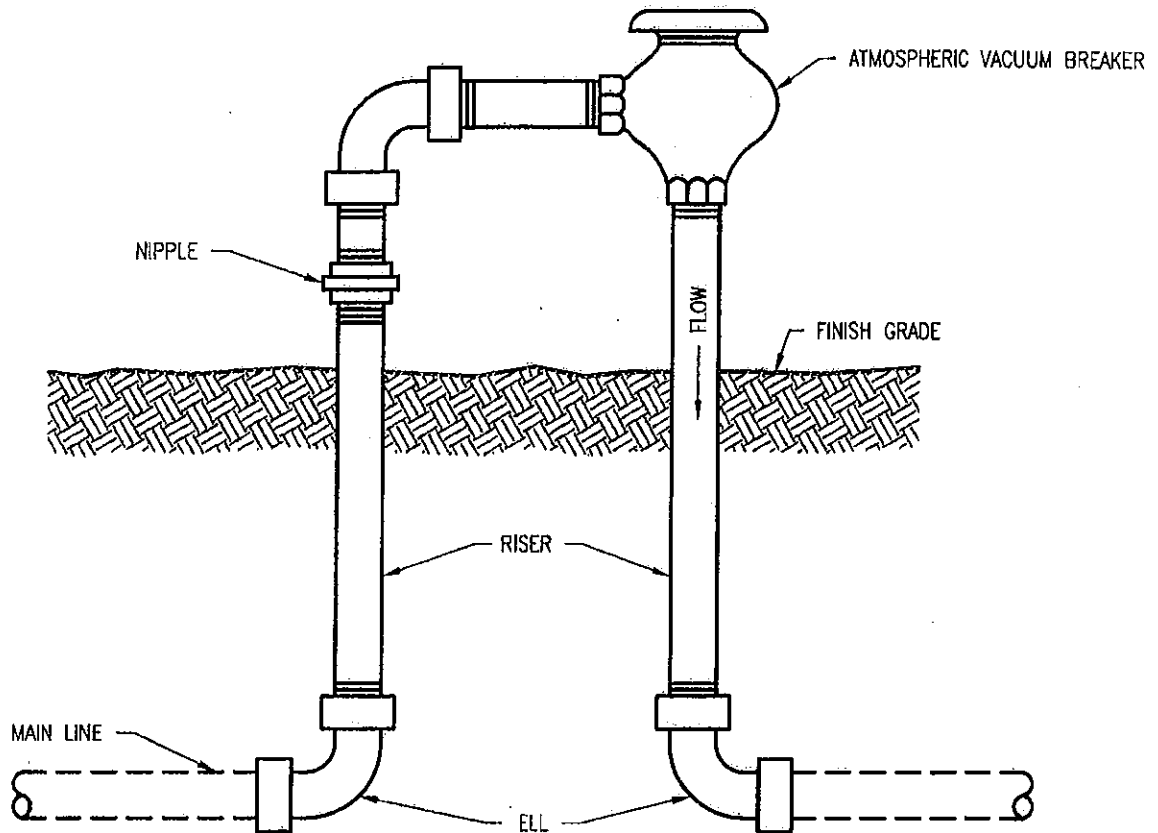
APPROVED:  
*[Signature]*  
DIRECTOR OF PUBLIC WORKS  
10/12/10  
DATE

CITY OF  
SIMI VALLEY  
DEPARTMENT OF PUBLIC WORKS

ELECTRICAL PULL BOX

STANDARD PLAN NO.  
SV 52-100  
SHEET 1 OF 1





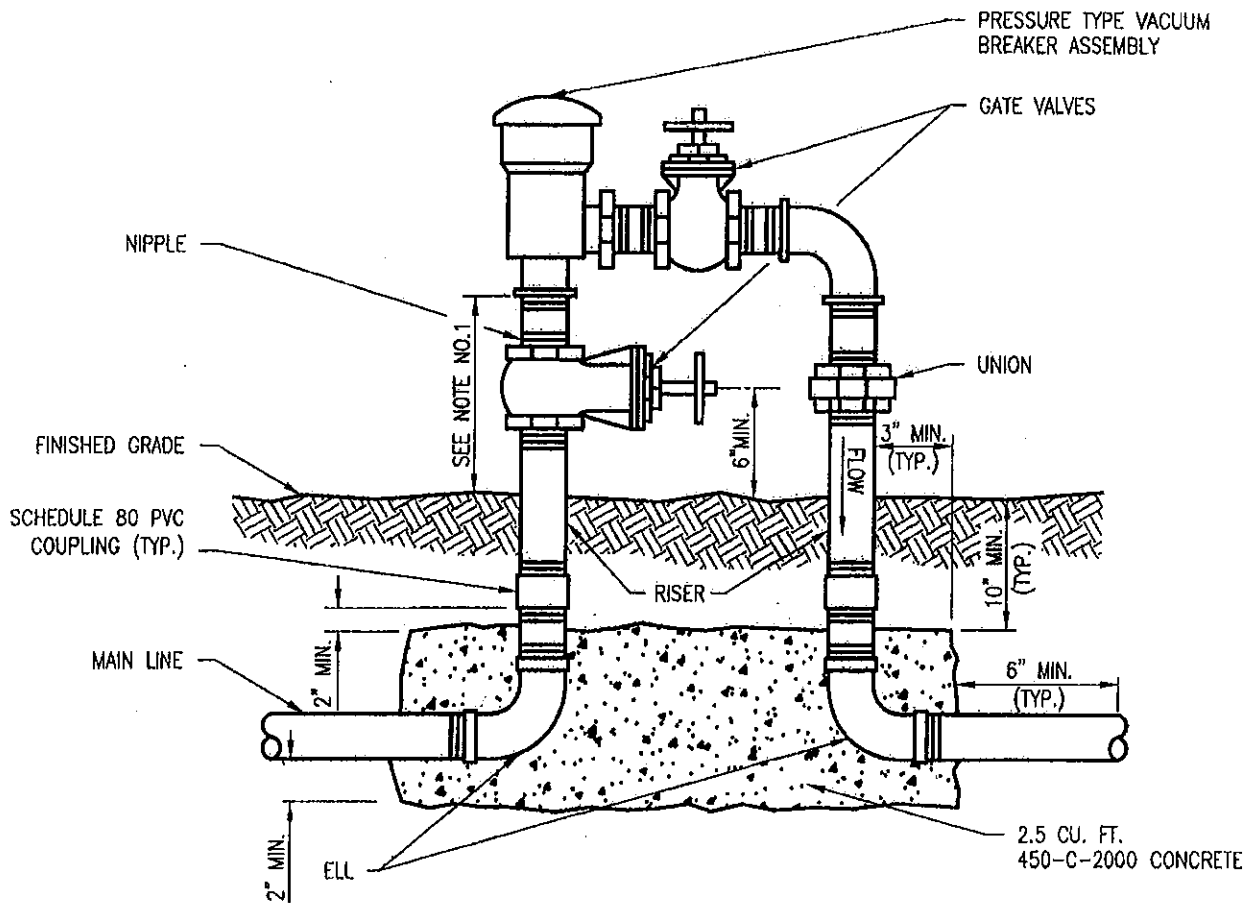
**ATMOSPHERIC TYPE - 2" AND SMALLER**  
NOT TO SCALE

**NOTES:**

1. ATMOSPHERIC TYPE VACUUM BREAKERS SHALL BE INSTALLED A MINIMUM OF 6 INCHES ABOVE THE HIGHEST OUTLET OR FLOOD LINE, WHICHEVER IS HIGHER AND ON DOWNSTREAM SIDE OF VALVE ONLY.
2. DIVIDES AND INSTALLATION SHALL MEET LOCAL HEALTH AND WATER AGENCY REGULATIONS AND REQUIREMENTS.
3. CLOSE NIPPLES SHALL NOT BE USED.
4. APPROVED TEFLON TAPE, 1/2 INCH WIDE, SHALL BE USED ON ALL THREADED CONNECTIONS.
5. ALL PIPES SHALL BE SCHEDULE 40 BRASS PIPE UNLESS OTHERWISE SPECIFIED.
6. SYMBOL ON PLAN IS ☒.

(8-9-05)

<p>APPROVED: <i>[Signature]</i> DIRECTOR OF PUBLIC WORKS 10/27/08 DATE</p>	<p align="center">CITY OF SIMI VALLEY DEPARTMENT OF PUBLIC WORKS</p>	<p align="center">VACUUM BREAKER ASSEMBLY</p>	<p>STANDARD PLAN NO. SV 52-110 SHEET 1 OF 2</p>
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**PRESSURE TYPE - 2" AND SMALLER**

NOT TO SCALE

**NOTES:**

1. PRESSURE TYPE VACUUM BREAKERS SHALL BE INSTALLED A MINIMUM OF 12 INCHES ABOVE THE HIGHEST OUTLET OR FLOOR LINE, WHICHEVER IS HIGHER.
2. PRESSURE TYPE VACUUM BREAKERS SHALL NOT BE SUBJECTED TO BACK PRESSURE OR DRAINAGE.
3. DEVICES AND INSTALLATION SHALL MEET LOCAL HEALTH AND EATER AGENCY REGULATIONS AND REQUIREMENTS.
4. CLOSE NIPPLES SHALL NOT BE USED.
5. APPROVED PLASTIC TAPE, 1/2 INCH WIDE, SHALL BE USED ON ALL THREADED CONNECTIONS.
6. DISSIMILAR METALS SHALL BE SEPARATED BY AN APPROVED DIELECTRIC COUPLING.
7. PLASTIC PIPE SHALL NOT BE USED ABOVE FINISHED GRADE.
8. ALL PIPE SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE UNLESS OTHERWISE SPECIFIED.
9. COAT ALL EXPOSED THREADS WITH AN APPROVED RUST INHIBITING SEALANT.
10. SYMBOL ON PLAN IS  .

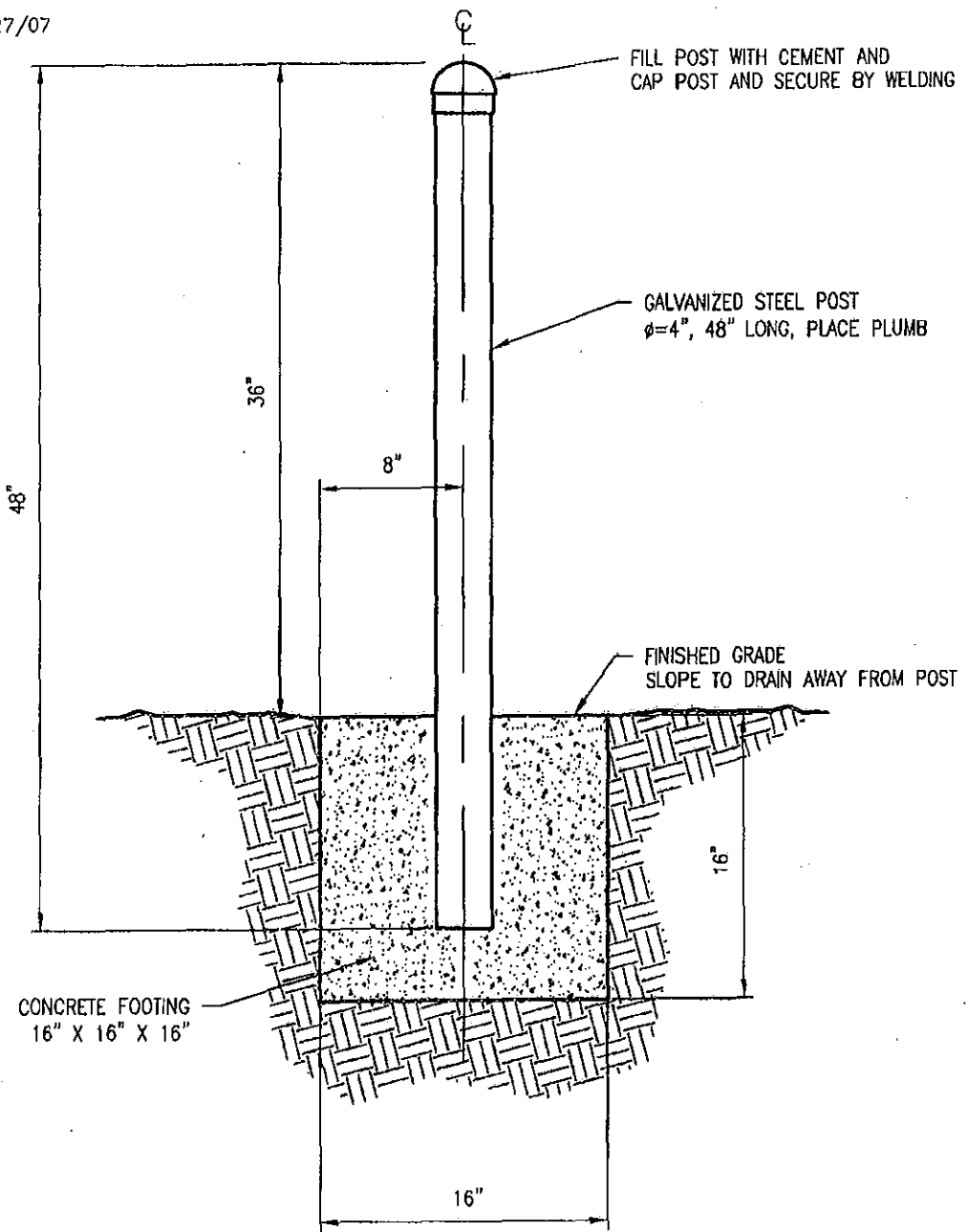
APPROVED:  
  
 DIRECTOR OF PUBLIC WORKS  
 10/21/08  
 DATE

**CITY OF  
 SIMI VALLEY**  
 DEPARTMENT OF PUBLIC WORKS

**VACUUM BREAKER  
 ASSEMBLY**

STANDARD PLAN NO.  
**SV 52-110**  
 SHEET 2 OF 2

EDITED 12/27/07



**NOTES:**

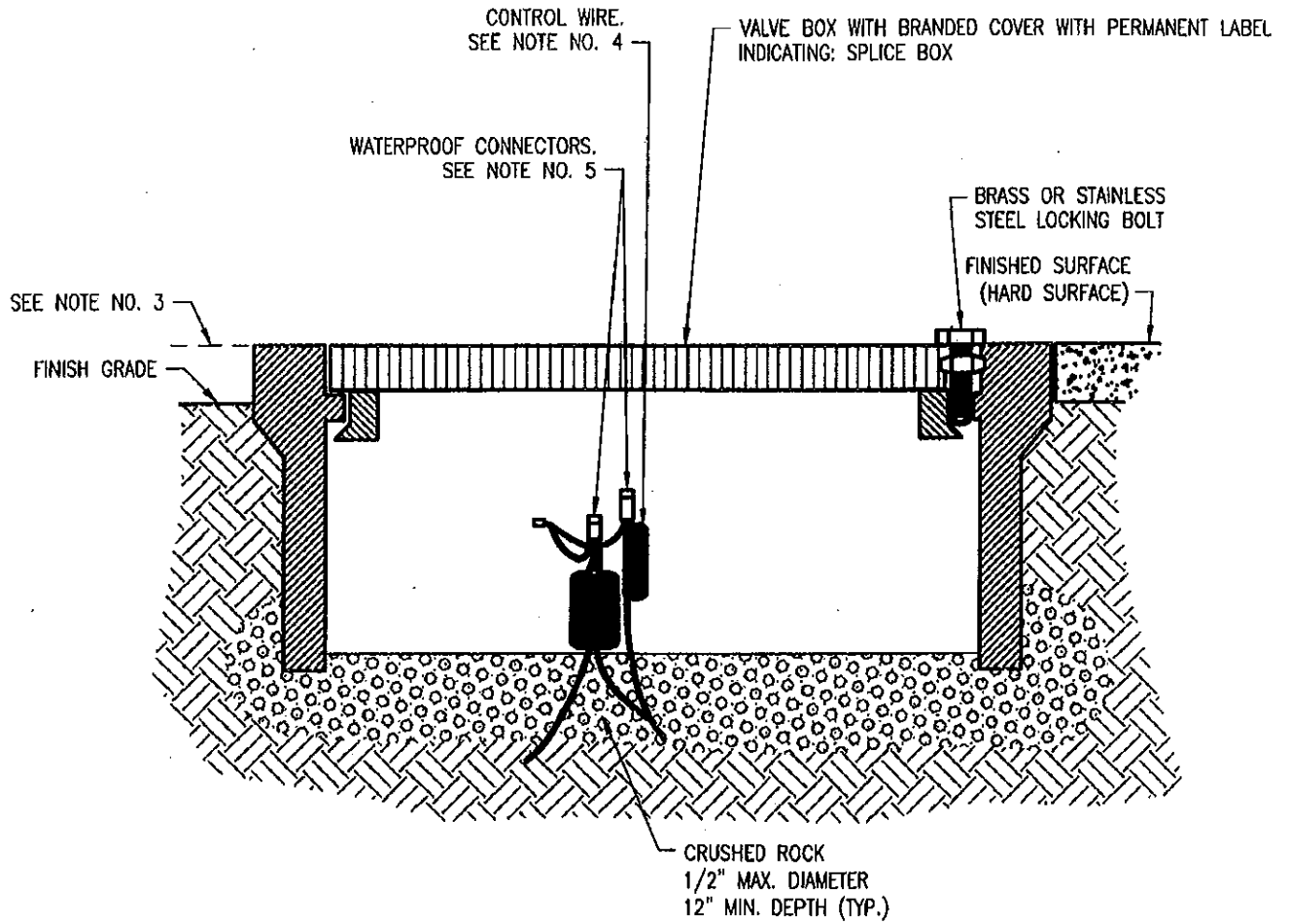
- 1. PAINT POST AS DIRECTED BY LANDSCAPE INSPECTOR.
- 2. VERTICALLY PLACE (4) STRIPS OF 1" WIDE x 24" LONG APPROVED EXTERIOR RED REFLECTION TAPE MADE BY 3M OR EQUAL ON THE INSTALLED POST.

APPROVED:  
*[Signature]*  
DIRECTOR OF PUBLIC WORKS  
10-2-08  
DATE

CITY OF  
SIMI VALLEY  
DEPARTMENT OF PUBLIC WORKS


NON-REMOVABLE  
GUARD POST DETAIL

STANDARD PLAN NO.  
SV 52-120  
SHEET 1 OF 1




NOT TO SCALE

10-6-10

<p>APPROVED:</p>  <p>DIRECTOR OF PUBLIC WORKS</p> <p>10/12/10 DATE</p>	<p>CITY OF SIMI VALLEY</p> <p>DEPARTMENT OF PUBLIC WORKS</p>	<p>LANDSCAPE IRRIGATION SPLICE BOX DETAIL</p>	<p>STANDARD PLAN NO. SV 52-130</p> <p>SHEET 1 OF 2</p>
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**NOTES:**

1. THIS ASSEMBLY DESIGN IS TO COVER ALL IRRIGATION RELATED VALVE INSTALLATIONS. SEE NOTE 10.
2. BOXES ARE INTENDED FOR USE IN LANDSCAPE PLANTING SITES.
3. TOP OF BOX SHALL BE AT FINISH GRADE FOR LAWNS AND HARD SURFACES. TOP OF BOX SHALL BE 2 INCHES ABOVE GRADE FOR GROUND COVER OR SHRUBS.
4. PROVIDE TWO FOOT EXPANSION LOOP AT EACH WIRE CONNECTION IN VALVE BOX AND COIL WIRES.
5. WATERPROOF CONNECTORS DS 400 BY SPEARS OR PEN TIGHT OR EQUAL.
6. 10" ROUND VALVE BOX FOR ONE TO FIVE SPLICES. 12 INCH RECTANGULAR VALVE BOX FOR OVER FIVE SPLICES, PLASTIC "T" TOP BOX WITH LOCKING PLASTIC COVER, BROOKS, NDS, APPLIED ENGINEERING PRODUCTS, OR APPROVED EQUAL.
7. CRUSHED ROCK SHALL COVER VALVE BOX PIPE CUT OUTS TO PREVENT SOIL ENTRY.
8. COMPACT SOIL AROUND VALVE BOX TO KEEP FROM SETTLING.
9. ALL SLICED WIRES SHALL BE CHRISTIE LABELED WITH PROPER SEQUENCE NUMBERS. BRAND THE VALVE BOX LID WITH WORDS STATING "SPICE BOX".
10. WHENEVER SPICE BOX IS WITHIN SIDEWALK, STREET OR TRAVEL WAY, PUBLIC WORKS ENGINEER MUST DIRECT INSTALLATION REQUIREMENTS.

APPROVED:  
  
DIRECTOR OF PUBLIC WORKS  
10/12/10  
DATE

CITY OF  
SIMI VALLEY  
DEPARTMENT OF PUBLIC WORKS

LANDSCAPE IRRIGATION  
SPICE BOX DETAIL

STANDARD PLAN NO.  
SV 52-130  
SHEET 2 OF 2