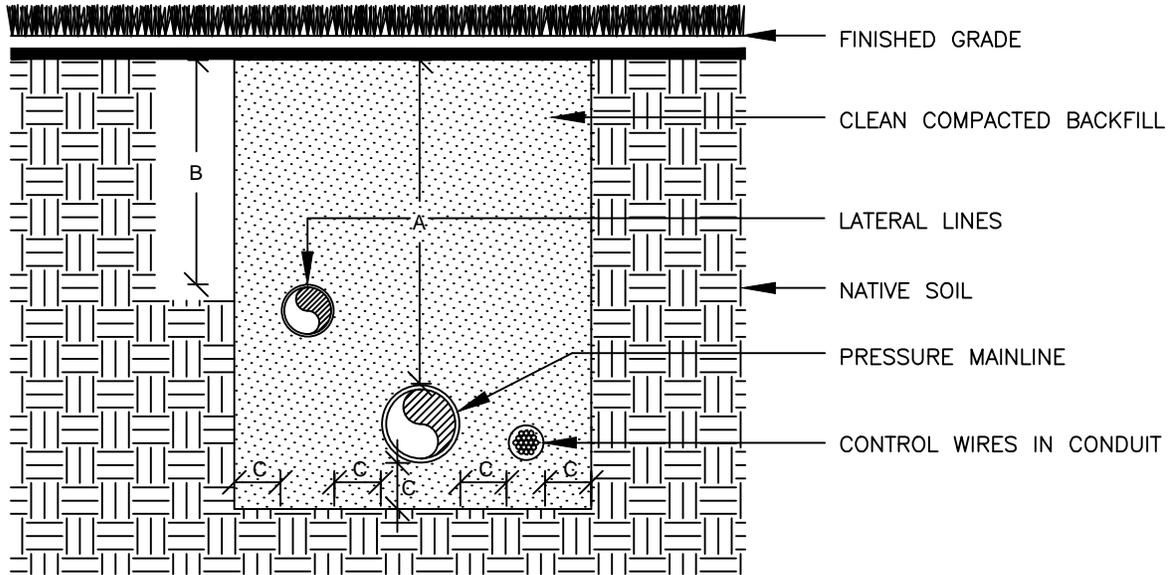


SECTION 500

LANDSCAPE IRRIGATION

<u>PLAN NO.</u>	<u>DESCRIPTION</u>
500	PIPE AND WIRING TRENCHING
501	SLEEVE TRENCHING
502	PIPE INSTALLED ON GRADE
503	PIPE CROSSING BENCH DRAIN
504	PIPE CROSSING DOWN DRAIN
505	STRAINER/PRESSURE REDUCING VALVE
506	BALL VALVE 2 INCHES AND SMALLER
507	GATE VALVE 2 1/2 INCHES AND LARGER
508-1	QUICK COUPLER VALVE IN BOX
508-2	QUICK COUPLER VALVE IN BOX IN ATHLETIC FIELDS
509	FLOW SENSOR
510	INLINE REMOTE CONTROL VALVE
511	CONTROLLER SCHEMATIC
512	SATELLITE CONTROLLER WITH CCU, INTERIOR INSTALLATION
513	CONTROLLER CCU EXTERIOR INSTALLATION
514	24" METERED ASSEMBLY (CA5 SERIES)
515	SATELLITE CONTROLLER INTERIOR INSTALLATION
516	SATELLITE CONTROLLER EXTERIOR INSTALLATION
517	WIRE CONNECTOR (SPEARS DRI-SPLICE)
518	CONTROL WIRE PULL BOX
519	IRRIGATION INTERCONNECT CABLE
520	TREE BUBBLER
521-1	SPRINKLER HEAD ON RISER AT GRADE
521-2	POP-UP SPRAY SPRINKLER 1806 RAIN BIRD WITH SWING JOINT
521-3	ROTOR POP-UP SPRINKLER RAIN BIRD FALCON 6504
521-4	ROTOR POP-UP SPRINKLER RAIN BIRD 8005
521-5	ROTOR POP-UP SPRINKLER RAIN BIRD 5006 PLUS
521-6	POP-UP SPRAY SPRINKLER RAIN BIRD RD-06 WITH SWING JOINT
521-7	PRE-FABRICATED SWING JOINT RAIN BIRD TSJ-10, 12 OR EQUIVALENT
522-1	POP-UP SPRINKLER (12 INCH)
522-2	POP-UP SPRINKLER (6 INCH)
523	REDUCED PRESSURE PRINCIPAL DEVICE
524	MEDIAN IRRIGATION LAYOUT
525	MEDIAN PROFILE
526	MEDIAN SHRUB HEAD
527	IRRIGATION CROSSOVER STREET SECTION



DIMENSION	A	B	C
1/2" TO 2 1/2" IN SIZE	18"	12"	4"
3" TO 6" IN SIZE	24"	X	4"

SECTION VIEW - N.T.S.

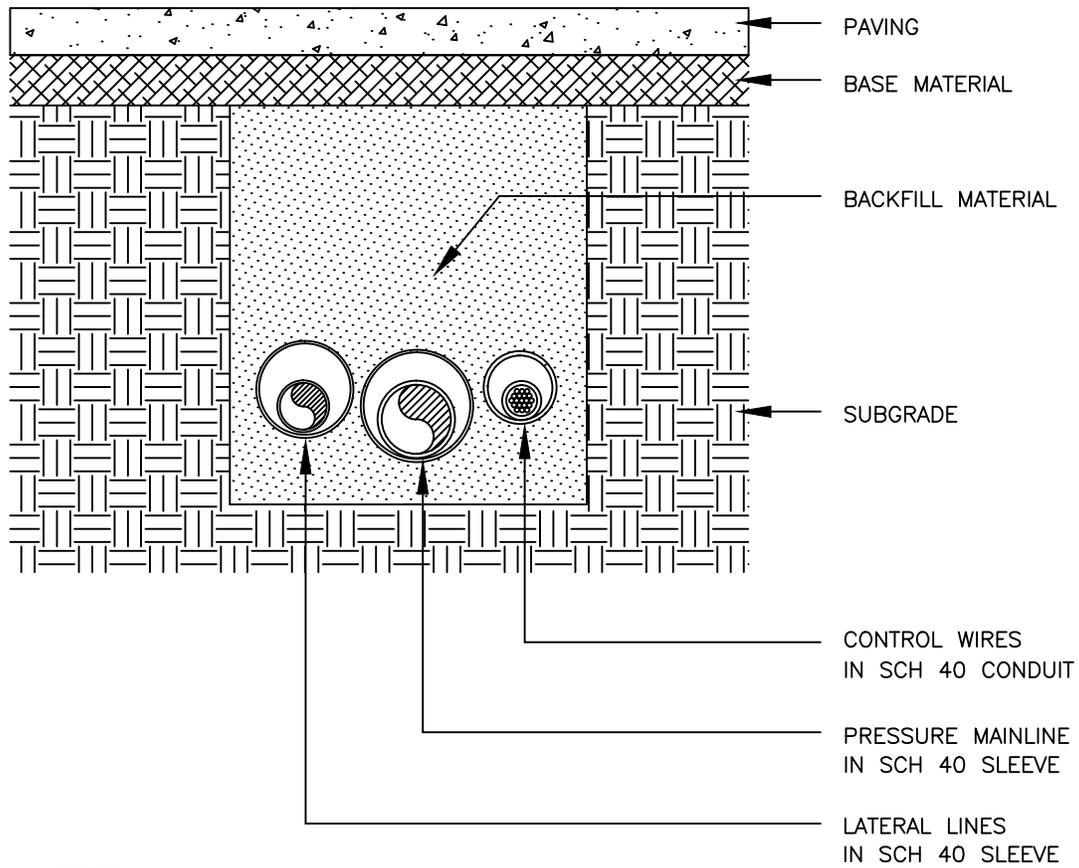
NOTES:

ALL PLASTIC PIPING SHALL BE SNAKED WITHIN TRENCH.

ALL WIRES SHALL BE IN PLASTIC CONDUIT.

ALL MAINLINE PIPING TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' INSTALLATION SPECIFICATIONS.

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO. 500
	PIPE AND WIRE TRENCHING	
	APPROVED BY: MARK LEWIS R.O.E. 49335 CITY ENGINEER	DATE: 04/01/15
	SHEET: 1 OF 1	



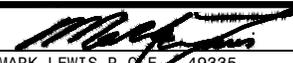
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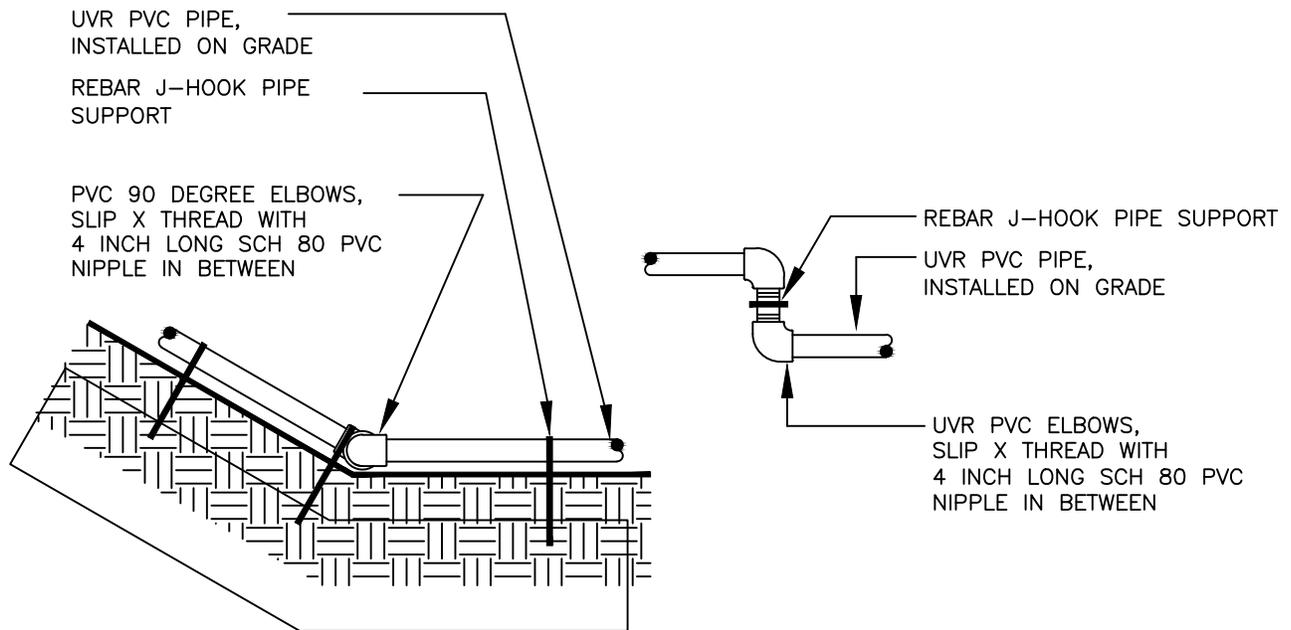
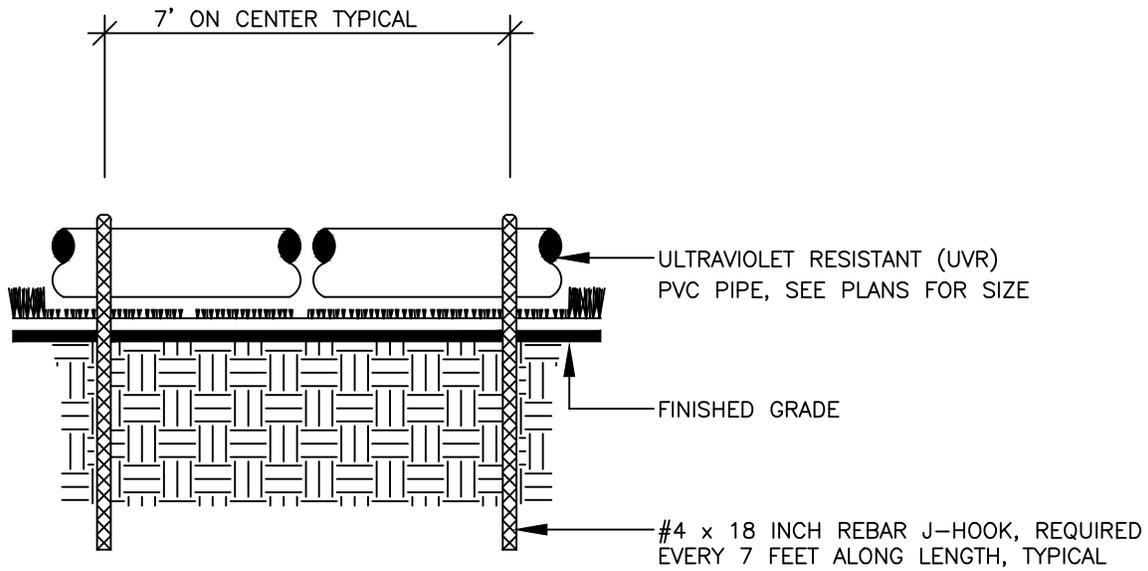
ALL PIPING TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' INSTALLATION SPECIFICATIONS.

ALL MAINLINE AND LATERAL LINES SHALL BE SLEEVED BELOW ALL HARDSCAPE ELEMENTS WITH SCH 40 PVC, 2 TIMES THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.

DEPTH OF SLEEVES, BACKFILL, AND COMPACTION OF TRENCH SHALL BE IN ACCORDANCE WITH STANDARD PLAN NO. 527 FOR CROSSINGS OF STREETS AND SHALL BE IN ACCORDANCE WITH STANDARD PLAN NO. 500 FOR CROSSINGS OF PARKING LOTS, SIDEWALKS, OR OTHER HARDSCAPE ELEMENTS.

HORIZONTAL DIMENSION BETWEEN SLEEVES SHALL BE A MINIMUM OF 4 INCHES.

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	SLEEVE TRENCHING	501
	APPROVED BY:  MARK LEWIS R.O.E. 49335 CITY ENGINEER	SHEET: 1 OF 1
		DATE: 04/01/15

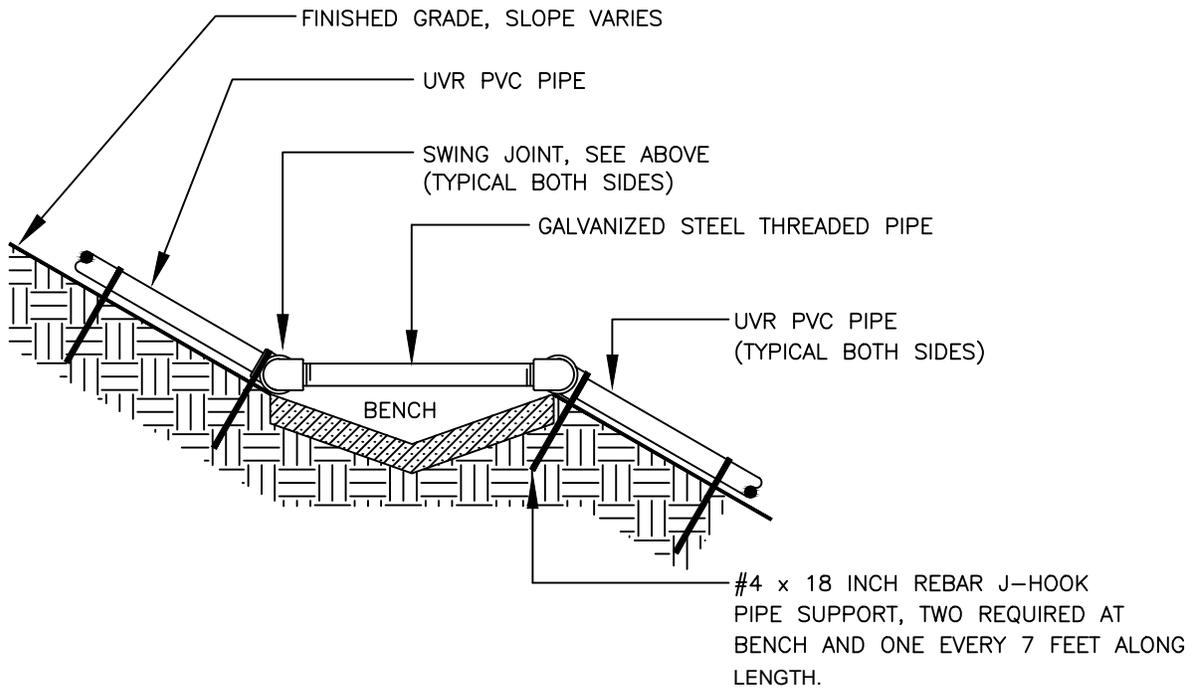
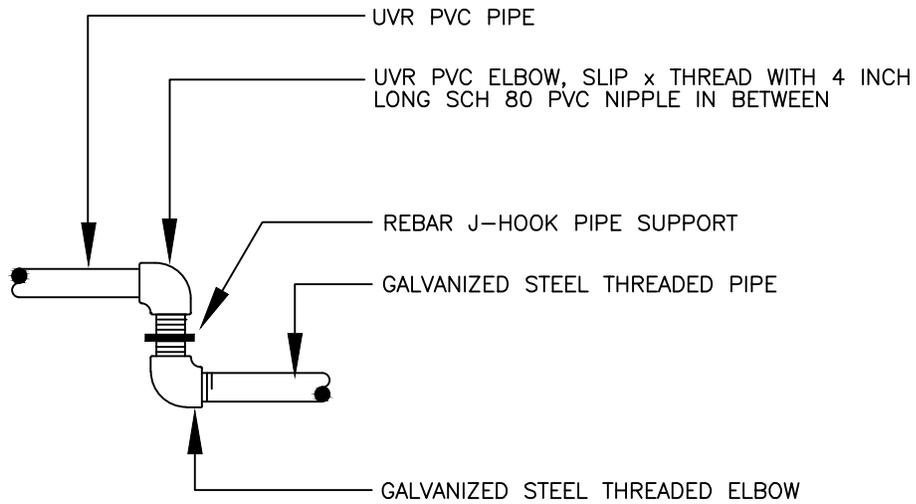


SLOPE DIRECTION CHANGE
SECTION VIEW - N.T.S.

NOTE:

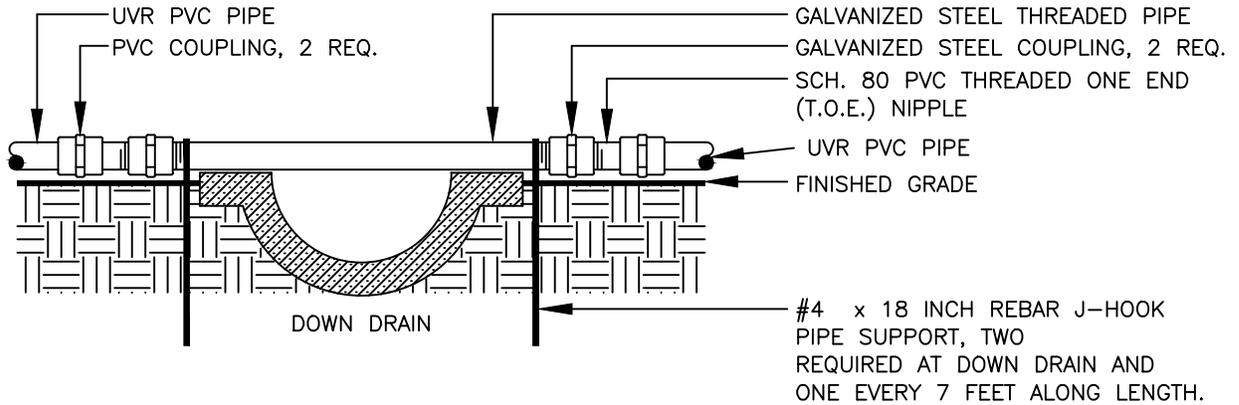
ALL PVC PIPE AND FITTINGS INSTALLED ON GRADE TO BE ULTRAVIOLET RESISTANT (UVR).
USE TEFLON TAPE ON THREADED FITTINGS.

REVISIONS	CITY OF FOUNTAIN VALLEY		STANDARD PLAN NO.
	PIPE INSTALLED ON GRADE		
	 APPROVED BY: MARK LEWIS R.O.E. 49335 CITY ENGINEER		SHEET: 1 OF 1
			DATE: 04/01/15



NOTE:
 ALL PVC PIPE AND FITTINGS INSTALLED ON GRADE SHALL BE ULTRAVIOLET RESISTANT (UVR).
 USE TEFLON TAPE ON THREADED FITTINGS.

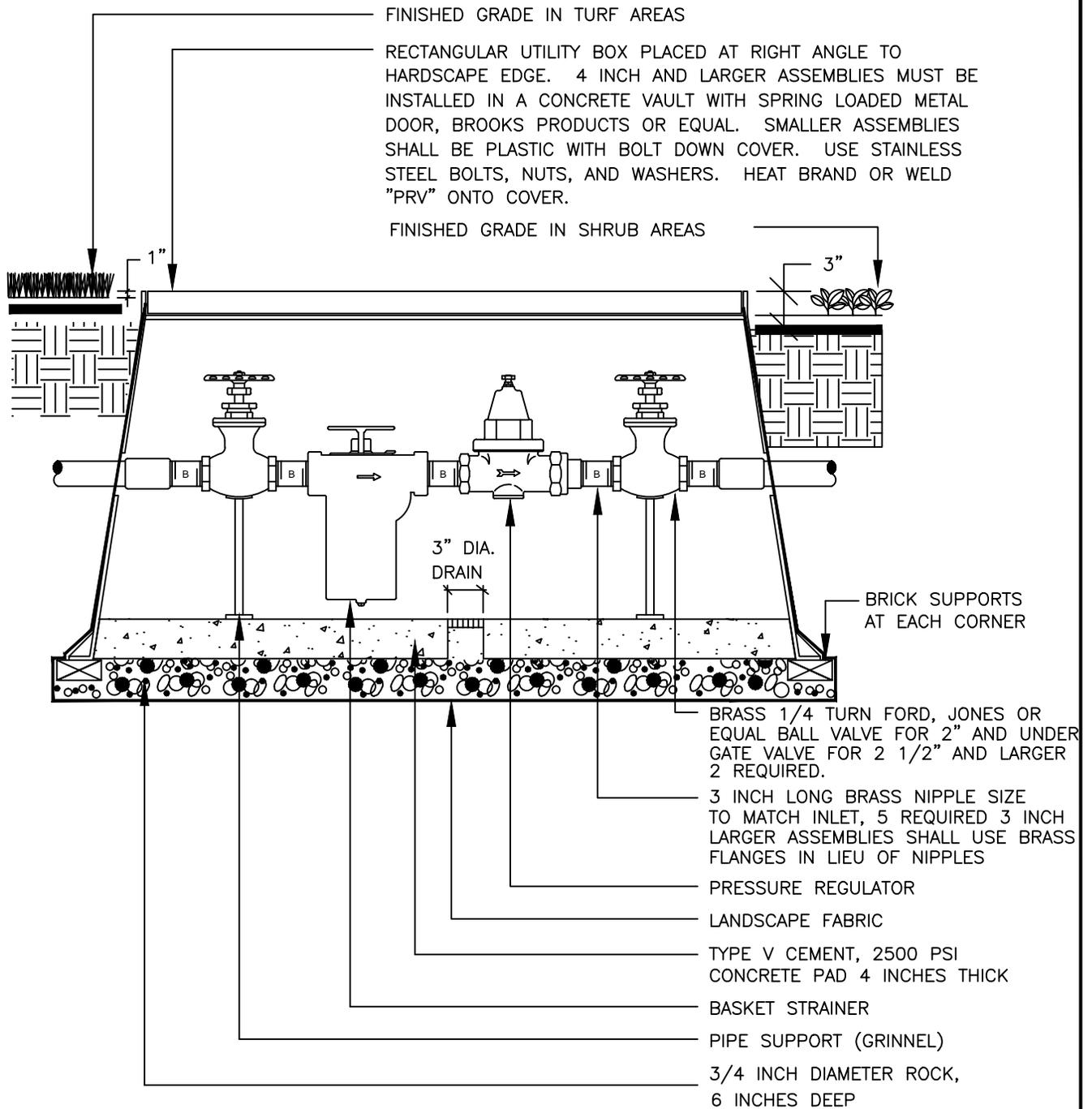
REVISIONS	CITY OF FOUNTAIN VALLEY		STANDARD PLAN NO.
	PIPE CROSSING BENCH DRAIN		
	 APPROVED BY: MARK LEWIS R.O.E. 49335 CITY ENGINEER	DATE: 04/01/15	SHEET: 1 OF 1



NOTE:

ALL PVC PIPE AND FITTINGS INSTALLED ON GRADE SHALL BE ULTRAVIOLET RESISTANT (UVR).
USE TEFLON TAPE ON THREADED FITTINGS.

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	PIPE CROSSING DOWN DRAIN	504
	APPROVED BY:  MARK LEWIS R.O.E. 49335 CITY ENGINEER	SHEET: 1 OF 1
	DATE: 04/01/15	

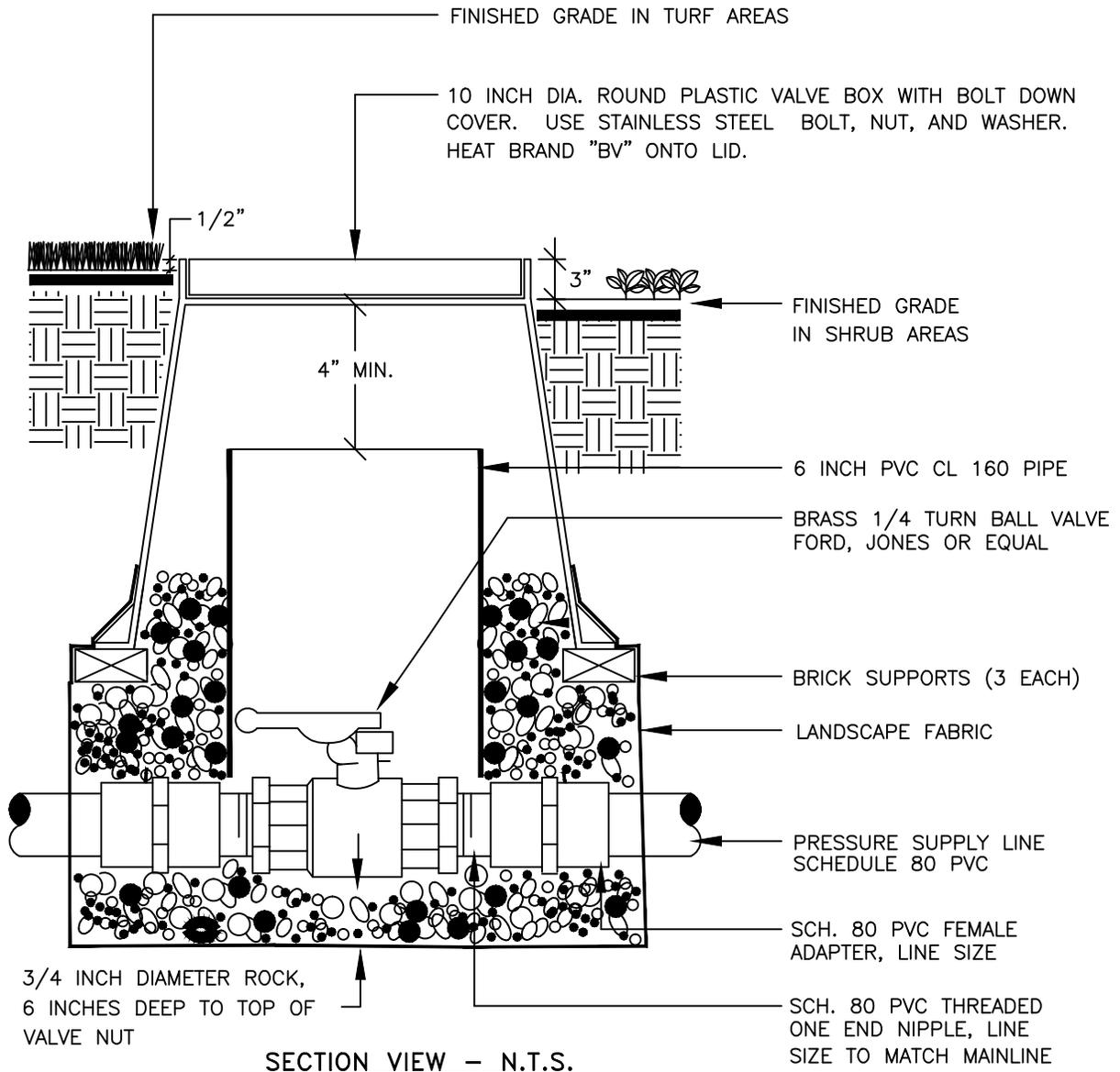


SECTION VIEW - N.T.S.

NOTE:
WRAP LANDSCAPE FABRIC AROUND SIDES AND BOTTOM OF BOX TO COVER ALL OPENINGS.

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	STRAINER / PRESSURE REDUCING VALVE	
	APPROVED BY:  MARK LEWIS R.O.E. 49335 CITY ENGINEER	SHEET: 1 OF 1

DATE: 04/01/15

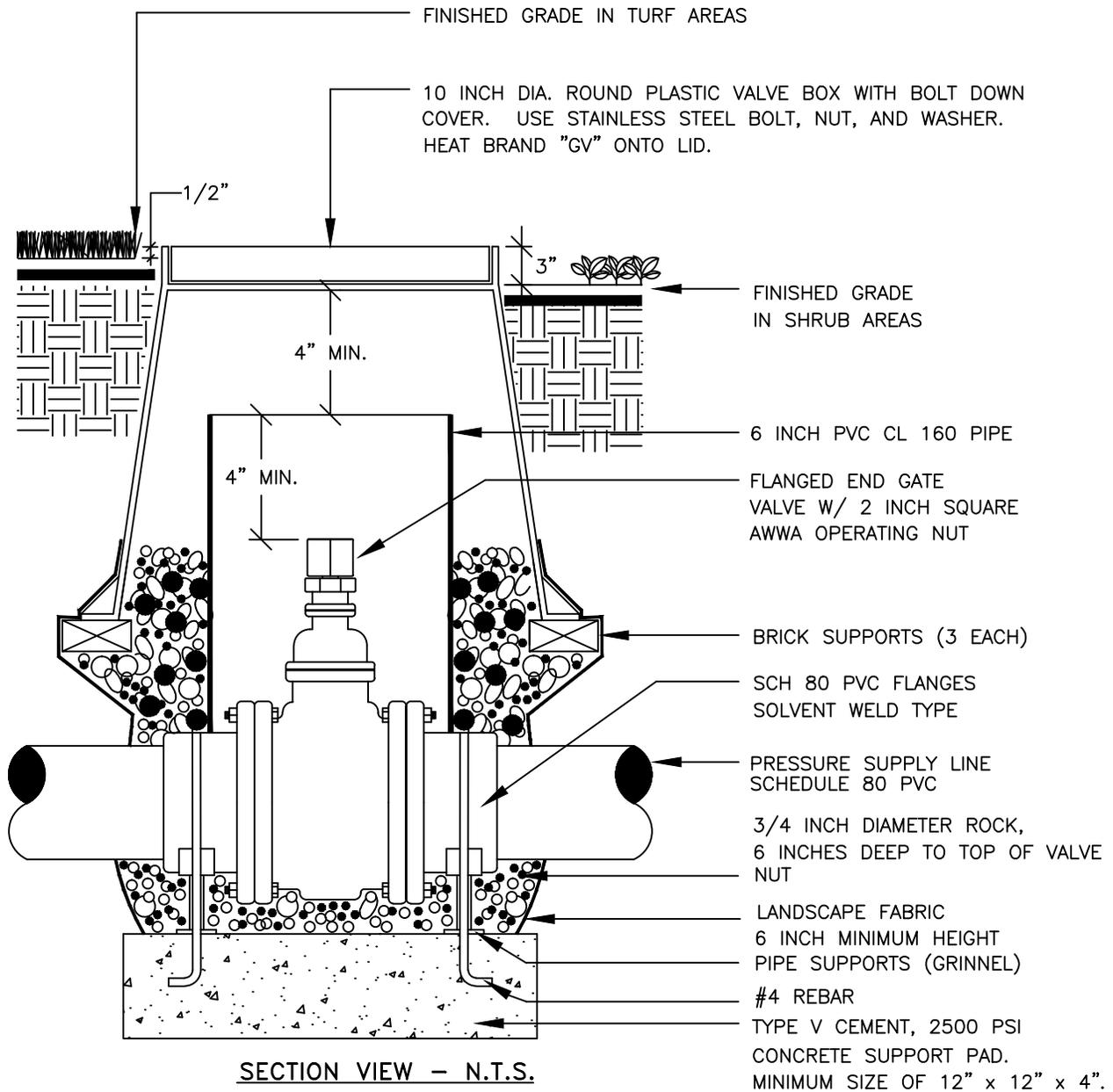


NOTES:

INSTALL VALVE BOX AND PIPE EXTENSION AS REQUIRED TO ACHIEVE PROPER VALVE INSTALLATION AT MAIN LINE DEPTH.

WRAP LANDSCAPE FABRIC AROUND SIDES AND BOTTOM OF BOX TO COVER ALL OPENINGS.

REVISIONS	CITY OF FOUNTAIN VALLEY		STANDARD PLAN NO. 506
	BALL VALVE 2 INCHES AND SMALLER		
	APPROVED BY:  MARK LEWIS R.O.E. 49335 CITY ENGINEER	DATE: 04/01/15	



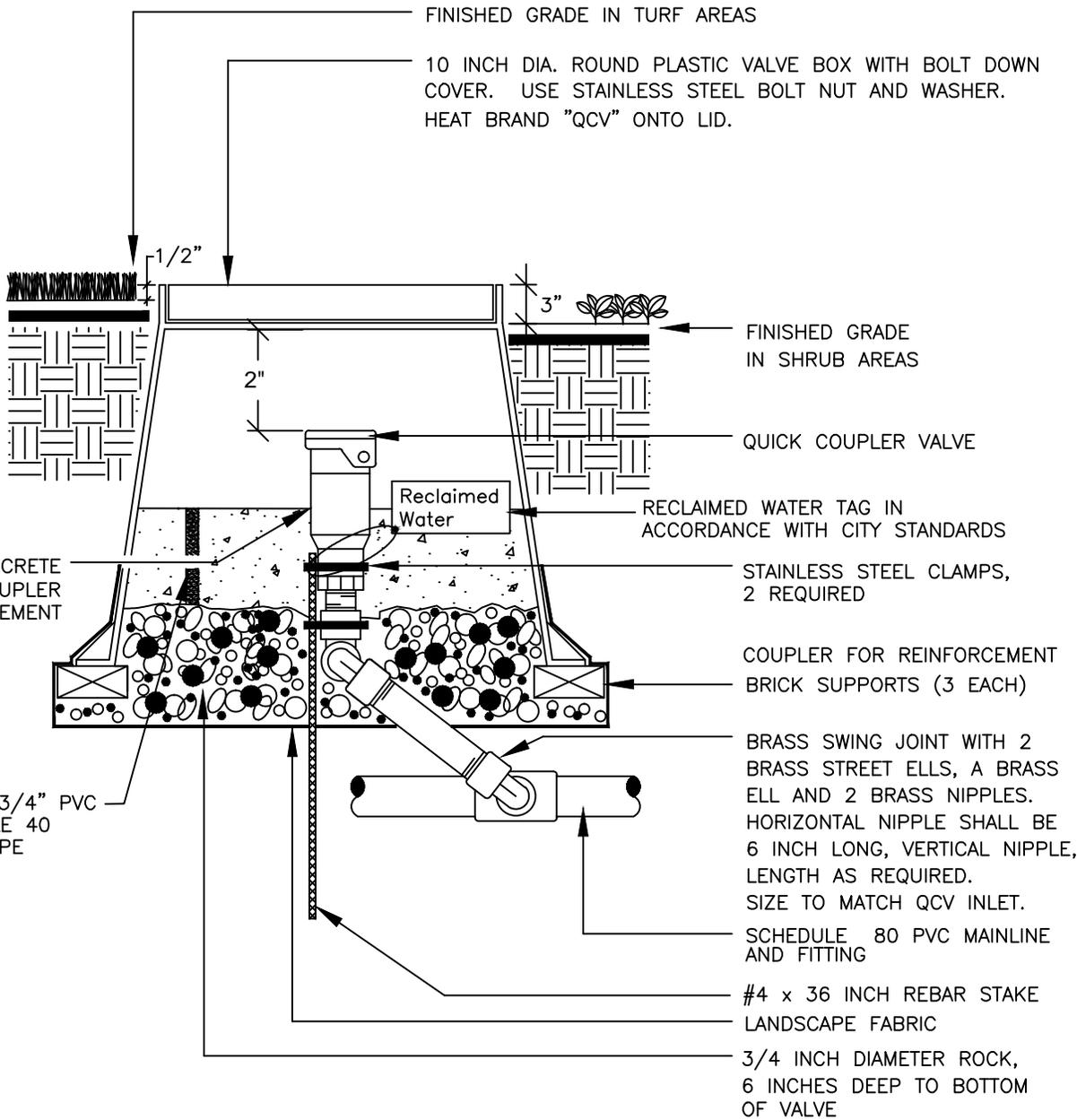
NOTES:

CONTRACTOR TO PROVIDE ONE 5 FOOT LONG TEE WRENCH WITH SQUARE NUT ADAPTER FOR THE OPERATION OF GATE VALVES.

INSTALL VALVE BOX AND PIPE EXTENSION AS REQUIRED TO ACHIEVE PROPER VALVE INSTALLATION AT MAIN LINE DEPTH.

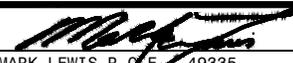
WRAP LANDSCAPE FABRIC AROUND SIDES AND BOTTOM OF BOX TO COVER ALL OPENINGS.

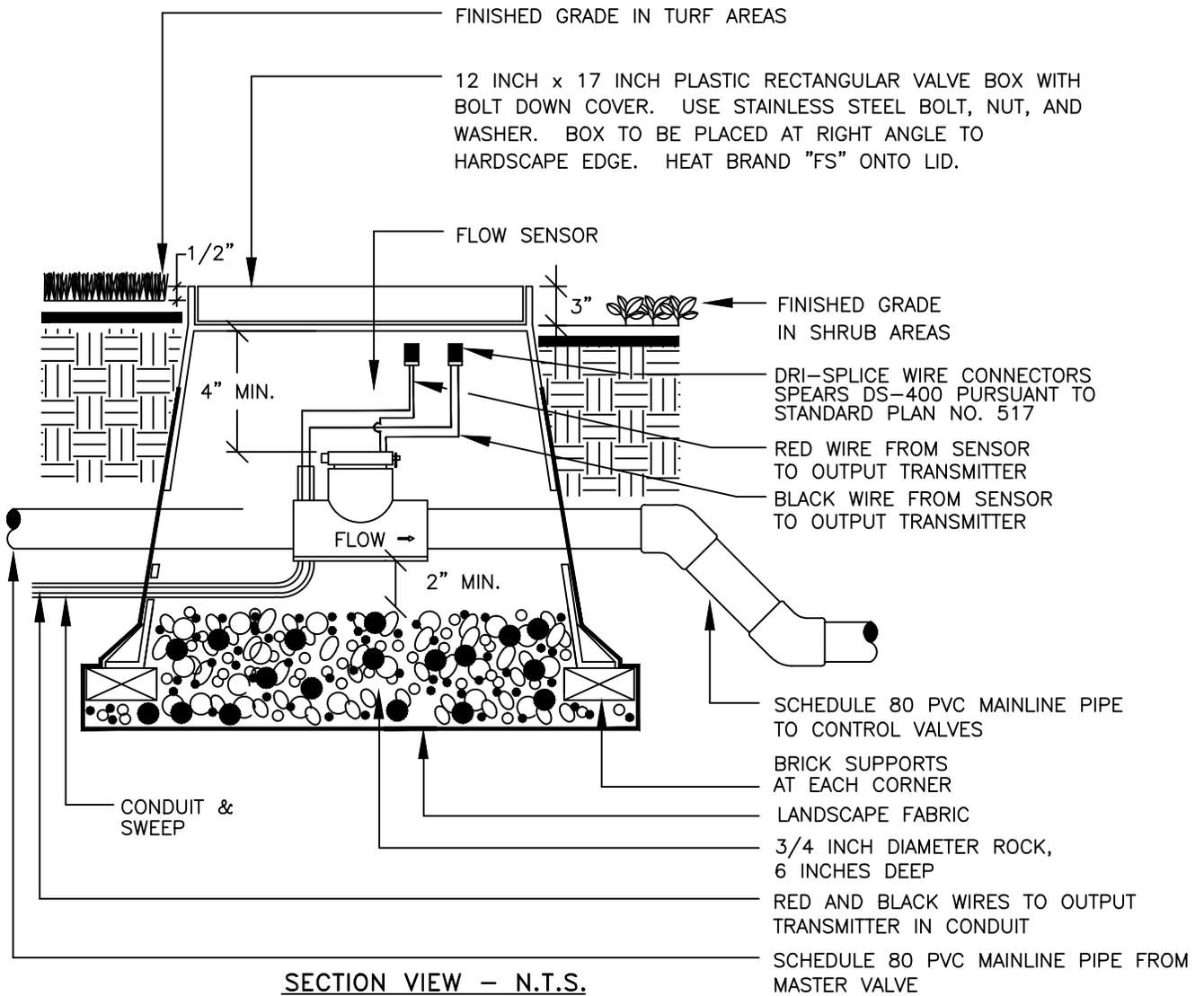
REVISIONS	CITY OF FOUNTAIN VALLEY		STANDARD PLAN NO. 507
	GATE VALVE 2 1/2 INCHES AND LARGER		
	 APPROVED BY: MARK LEWIS R.O.E. 49335 CITY ENGINEER		DATE: 04/01/15
			SHEET: 1 OF 1



SECTION VIEW - N.T.S.

- NOTES:
 USE TEFLON TAPE ON ALL THREADED FITTINGS.
 QUICK COUPLER KEY MUST CLEAR VALVE BOX.
 WRAP LANDSCAPE FABRIC AROUND SIDES AND BOTTOM OF BOX TO COVER ALL OPENINGS.

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	QUICK COUPLER VALVE IN BOX IN ATHLETIC FIELDS	508-2
	APPROVED BY:  MARK LEWIS R.O.E. 49335 CITY ENGINEER	DATE: 04/01/15 SHEET: 2 OF 2



NOTES:

INSTALL FLOW SENSOR PURSUANT TO THE MANUFACTURER'S RECOMMENDATIONS AND WIRE TRANSMITTER TO THE IRRIGATION CONTROLLER.

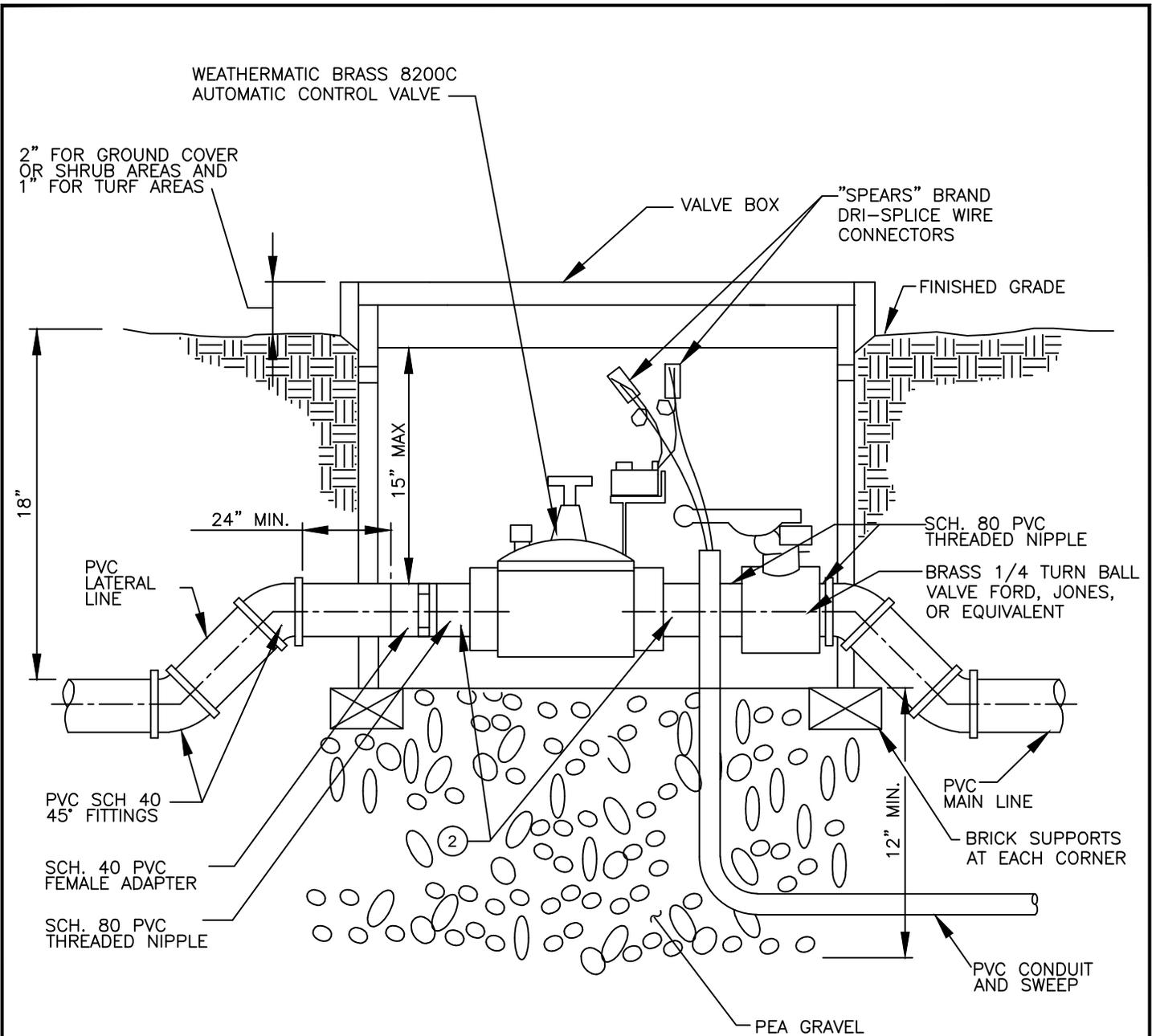
THE MAINLINE PIPE SHALL NOT CHANGE SIZE OR DIRECTION CLOSER THAN 5 FEET UPSTREAM OR 3 FEET DOWNSTREAM OF THE FLOW SENSOR.

USE 45 DEGREE ELLS TO ACHIEVE MAINLINE DEPTH ON THE DOWNSTREAM SIDE OF THE FLOW SENSOR.

WRAP LANDSCAPE FABRIC AROUND SIDES AND BOTTOM OF BOX TO COVER ALL OPENINGS. WIRES SHALL BE IN PVC CONDUIT WITH SWEEPS AT BOTH ENDS.

SEQUENCE SHALL BE METER, BACK FLOW PREVENTER, MASTER VALVE, FLOW SENSOR.

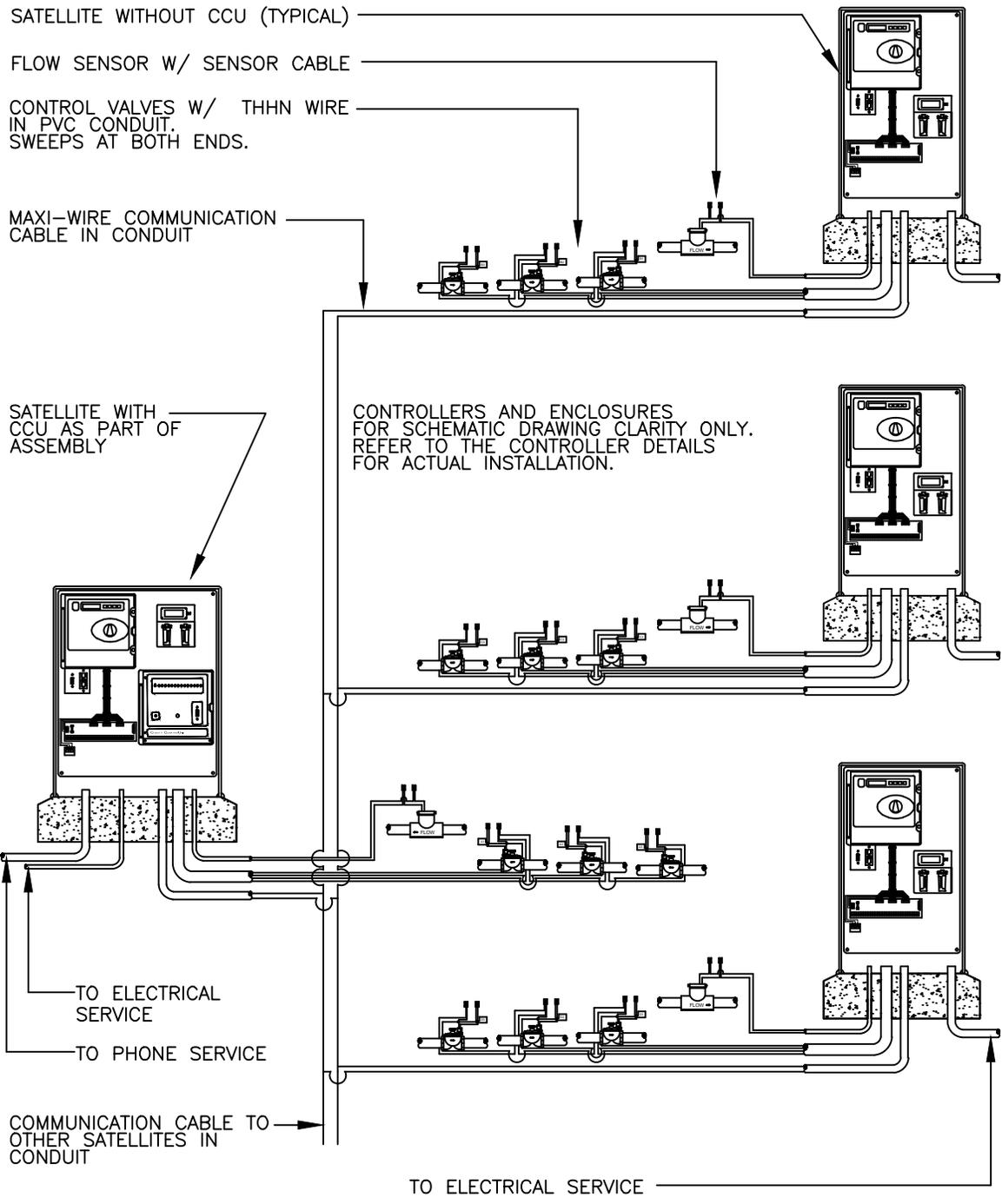
REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	FLOW SENSOR	
	 APPROVED BY: MARK LEWIS R.O.E. 49335 CITY ENGINEER	DATE: 04/01/15
		SHEET: 1 OF 1



- ① PER APPROVED PUBLIC WORKS PLAN
- ② USE TEFLON TAPE ON ALL MALE PIPE THREADS

NOTES: WRAP LANDSCAPE FABRIC AROUND SIDES AND BOTTOM OF BOX TO COVER ALL OPENINGS
 WIRES SHALL BE IN PVC CONDUIT WITH SWEEPS AT BOTH ENDS.
 ALL CONTROL VALVES INSTALLED ON A PUBLIC WORKS PROJECT TO BE BRASS.
 ALL PVC PIPING TO BE SCH 80 ON CONTINUOUSLY PRESSURED PIPE. (UPSTREAM OF CONTROL VALVE).

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	INLINE REMOTE CONTROL VALVE	
		510
	APPROVED BY: MARK LEWIS R.C.E. 49335 CITY ENGINEER	DATE: 04/01/15
	SHEET: 1 OF 1	



REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	CONTROLLER SCHEMATIC	511
	APPROVED BY:  MARK LEWIS R.O.E. 49335 CITY ENGINEER	DATE: 04/01/15 SHEET: 1 OF 1

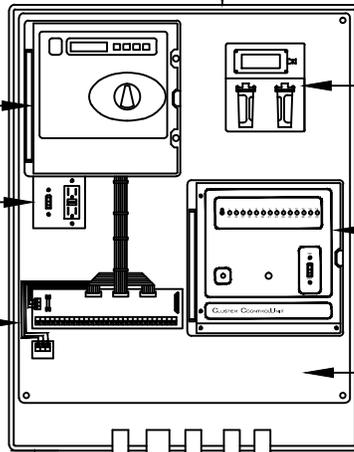
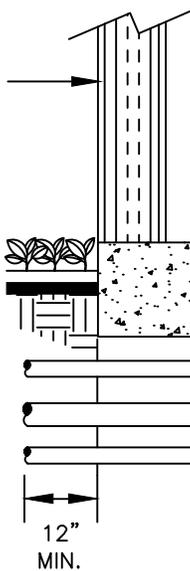
STAINLESS STEEL ENCLOSURE,
24 INCH WIDE FRONT ENTRY, WALL
MOUNT TYPE. (IN A SECURE
LOCATION, ENCLOSURE MAY
NOT BE REQUIRED. VERIFY
LOCATION WITH CITY INSPECTOR.)

SATELLITE
CONTROLLER

GFCI TYPE
POWER SWITCH
AND RECEPTACLE

TERMINAL STRIP
FOR VALVE
WIRES

BUILDING
WALL, BY
OTHERS



FLOW SENSOR OUTPUT
TRANSMITTER WITH PULSE
DECODER AND SENSOR
DECODERS AS REQUIRED

CLUSTER CONTROL UNIT
6 OR 28 CHANNEL AS
INDICATED ON LEGEND

STAINLESS STEEL, U.L.
LISTED, PREDRILLED,
REMOVABLE BACKBOARD

1 INCH MIN. PVC CONDUIT FOR
ELECTRICAL SERVICE

1 INCH PVC CONDUIT FOR
TELEPHONE SERVICE
CONDUIT CONNECTIONS
AS REQUIRED

BUILDING FOUNDATION
BY OTHERS, COORDINATE
CONDUIT ROUTING

1 1/4 INCH PVC CONDUIT FOR
COMMUNICATION CABLE
TO OTHER SATELLITES

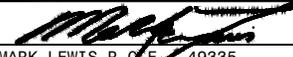
2 INCH MIN.
ACTUAL SIZE DETERMINED BY
NUMBER OF WIRES NEEDED.
PVC CONDUIT W/ SWEEP FOR
THHN CONTROL WIRES TO VALVES.

1 INCH PVC CONDUIT FOR
FLOW SENSOR CABLE

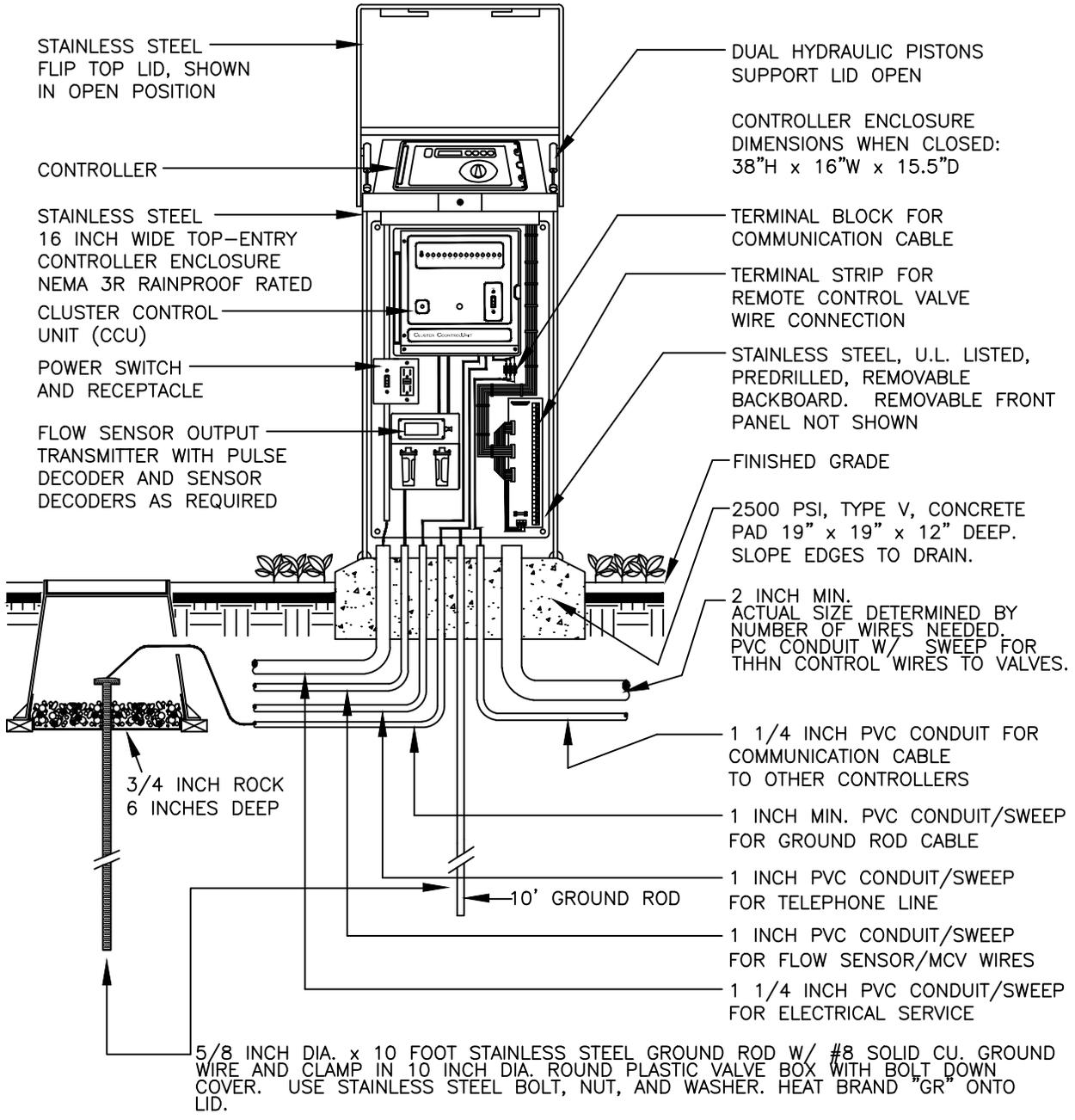
NOTES:

ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE
CALIFORNIA ELECTRICAL CODE.

CONTROLLER, ENCLOSURE, AND ALL OF THE REQUIRED COMPONENTS
SHALL BE PART OF A PRE-ASSEMBLED SATELLITE ASSEMBLY.

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	SATELLITE CONTROLLER WITH CCU INTERIOR INSTALLATION	512
	APPROVED BY:  MARK LEWIS R.O.E. 49335 CITY ENGINEER	SHEET: 1 OF 1

DATE: 04/01/15



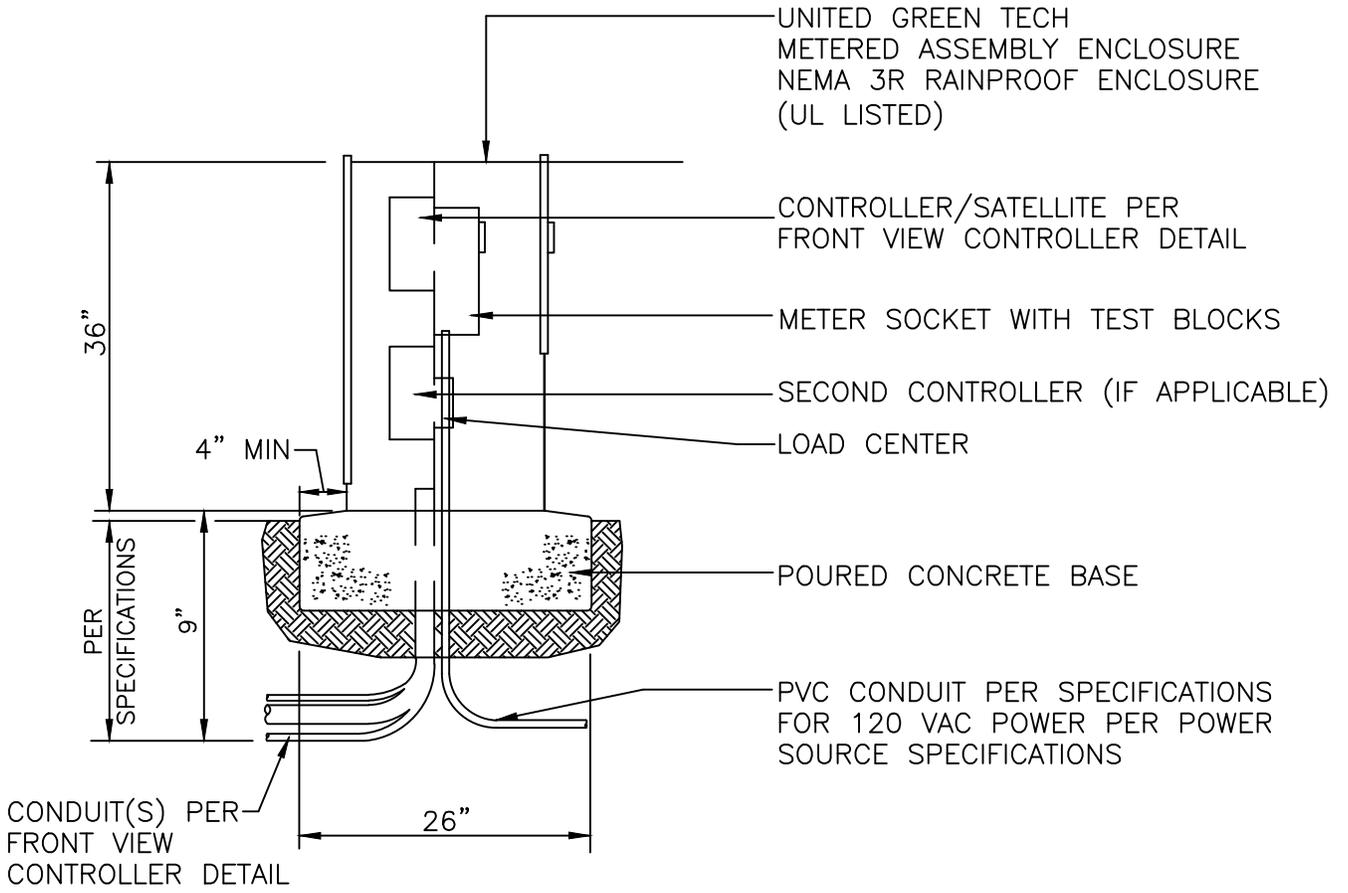
NOTES:

ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE. CONTROLLER, ENCLOSURE, AND ALL OF THE REQUIRED COMPONENTS SHALL BE PART OF A PRE-ASSEMBLED SATELLITE ASSEMBLY.

PROVIDE A SEPARATE 5/8 INCH DIA x 10 FOOT STAINLESS STEEL GROUND ROD, WIRE, AND CLAMP INSIDE CABINET FOR ELECTRICAL SERVICE PURSUANT TO THE CALIFORNIA ELECTRICAL CODE.

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	CONTROLLER CCU EXTERIOR INSTALLATION	513
	APPROVED BY:  MARK LEWIS R.O.E. 49335 CITY ENGINEER	SHEET: 1 OF 1

DATE: 04/01/15



SIDE VIEW

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	24" METERED ASSEMBLY (CA5 SERIES)	514
	APPROVED BY:  MARK LEWIS R.O.E. 49335 CITY ENGINEER	SHEET: 1 OF 1

DATE: 04/01/15

STAINLESS STEEL ENCLOSURE, 18 INCH WIDE FRONT ENTRY, WALL MOUNT TYPE. (IN A SECURE LOCATION, ENCLOSURE MAY NOT BE REQUIRED. VERIFY LOCATION WITH CITY INSPECTOR.)

SATELLITE CONTROLLER

GFCI TYPE POWER SWITCH AND RECEPTACLE

TERMINAL STRIP FOR VALVE WIRES

FLOW SENSOR OUTPUT TRANSMITTER WITH PULSE DECODER AND SENSOR DECODERS AS REQUIRED

STAINLESS STEEL, U.L. LISTED, PREDRILLED, REMOVABLE BACKBOARD

BUILDING WALL, BY OTHERS

48"

1 INCH PVC CONDUIT/SWEEP FOR ELECTRICAL SERVICE

CONDUIT CONNECTIONS AS REQUIRED

BUILDING FOUNDATION BY OTHERS, COORDINATE CONDUIT ROUTING

1 INCH PVC CONDUIT/SWEEP FOR FLOW SENSOR CABLE

2 INCH MIN. ACTUAL SIZE DETERMINED BY NUMBER OR WIRES NEEDED. PVC CONDUIT W/ SWEEP FOR THHN CONTROL WIRES TO VALVES.

12" MIN.

1 1/4 INCH PVC CONDUIT/SWEEP FOR COMMUNICATION CABLE TO CLUSTER CONTROL UNIT

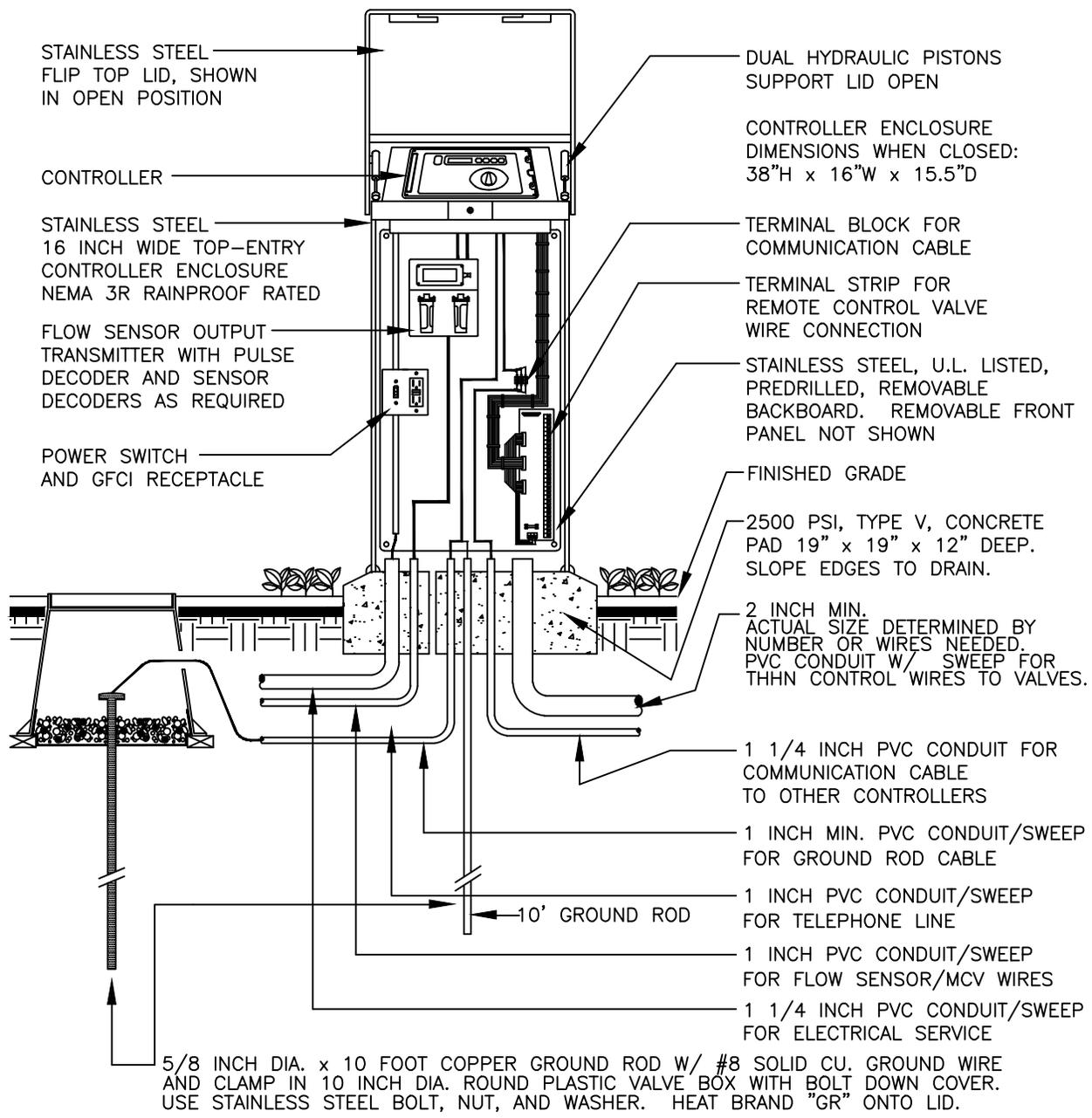
NOTES:

ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

CONTROLLER, ENCLOSURE, AND ALL OF THE REQUIRED COMPONENTS SHALL BE PART OF A PRE-ASSEMBLED SATELLITE ASSEMBLY.

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	SATELLITE CONTROLLER INTERIOR INSTALLATION	515
	APPROVED BY:  MARK LEWIS R.C.E. 49335 CITY ENGINEER	SHEET: 1 OF 1

DATE: 04/01/15



NOTES:

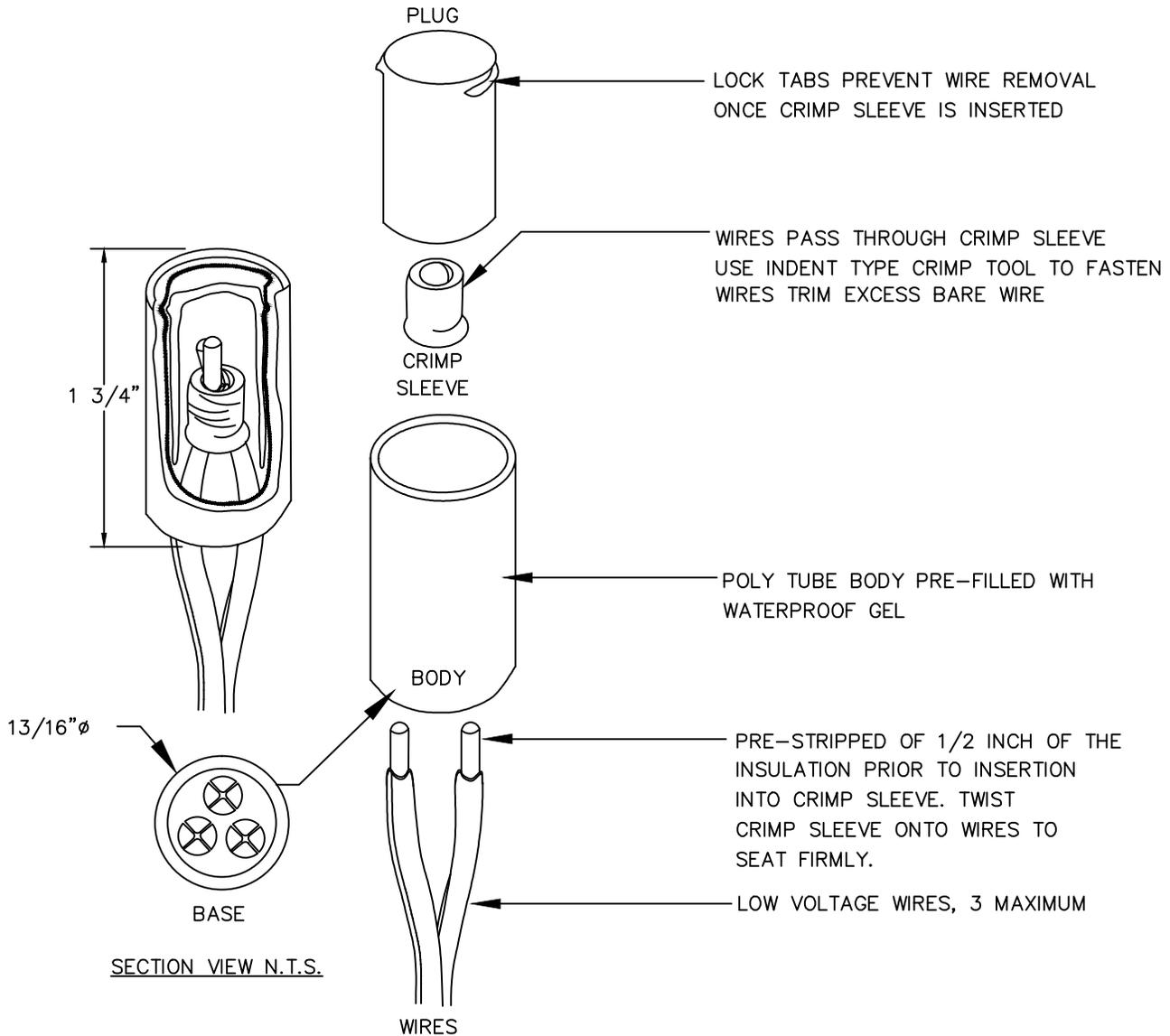
ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.
CALIFORNIA ELECTRICAL CODE.

CONTROLLER, ENCLOSURE, AND ALL OF THE REQUIRED COMPONENTS
SHALL BE PART OF A PRE-ASSEMBLED SATELLITE ASSEMBLY.

PROVIDE A SEPARATE 5/8 INCH DIA x 10 FOOT COPPER GROUND ROD, WIRE, AND CLAMP INSIDE
CABINET FOR ELECTRICAL SERVICE PURSUANT TO THE CALIFORNIA ELECTRICAL CODE.

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	SATELLITE CONTROLLER EXTERIOR INSTALLATION	516
	APPROVED BY:  MARK LEWIS R.O.E. 49335 CITY ENGINEER	SHEET: 1 OF 1

DATE: 04/01/15



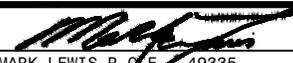
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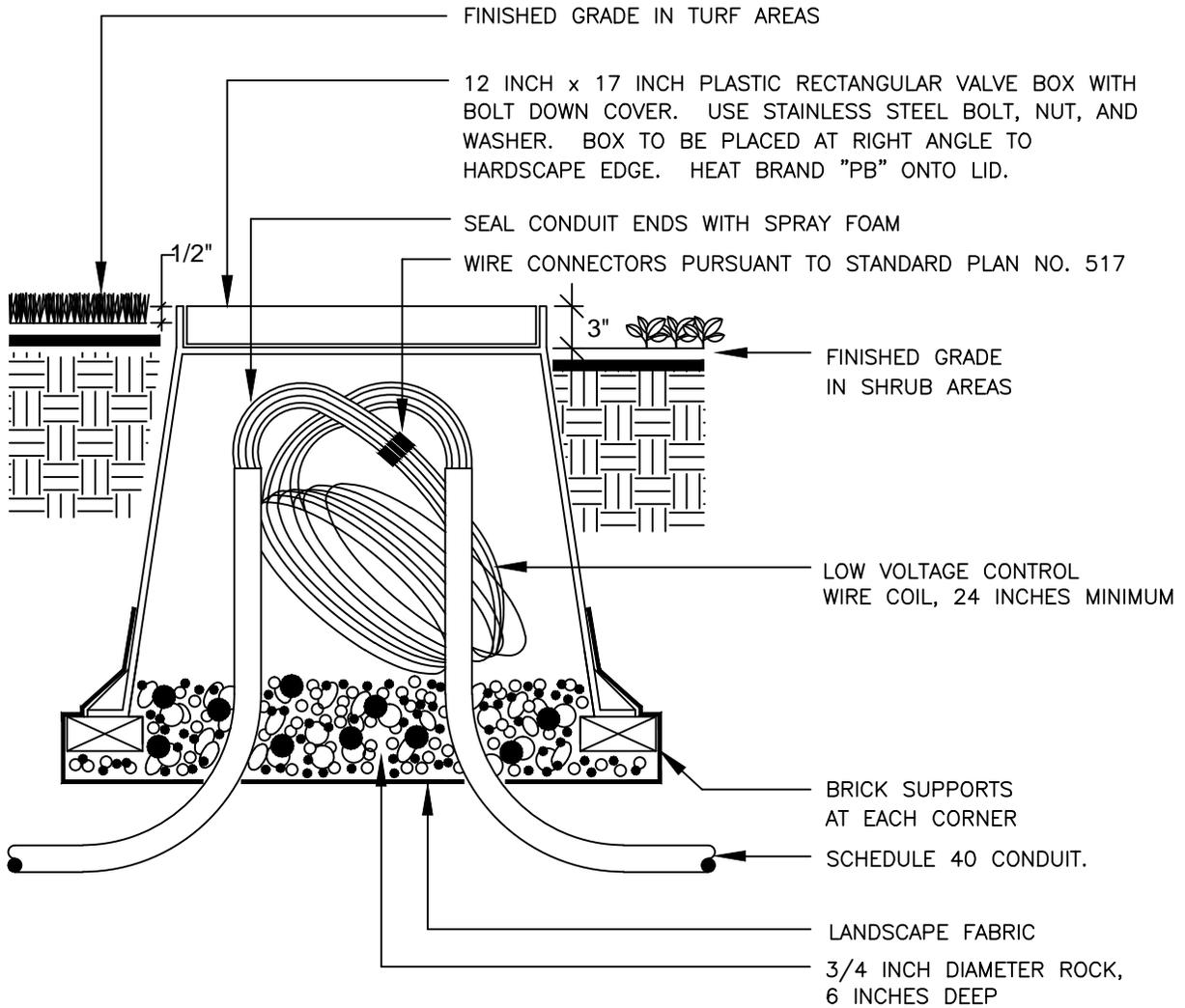
INSERT WIRES THROUGH HOLES IN BASE OF BODY.

TWIST STRIPPED WIRES TOGETHER AND APPLY CRIMPSLEEVE WITH AN INDENT TYPE CRIMPING TOOL TRIM EXCESS BARE WIRE.

INVERT BODY AND INSERT PLUG INTO BODY UNTIL SNAPS TIGHT.

PUSH WIRES ALL THE WAY INTO THE PLUG TO COMPLETELY SEAL THE CRIMP SLEEVE

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	WIRE CONNECTOR (SPEARS DRI-SPLICE)	517
	APPROVED BY:  MARK LEWIS R.O.E. 49335 CITY ENGINEER	SHEET: 1 OF 1
		DATE: 04/01/15

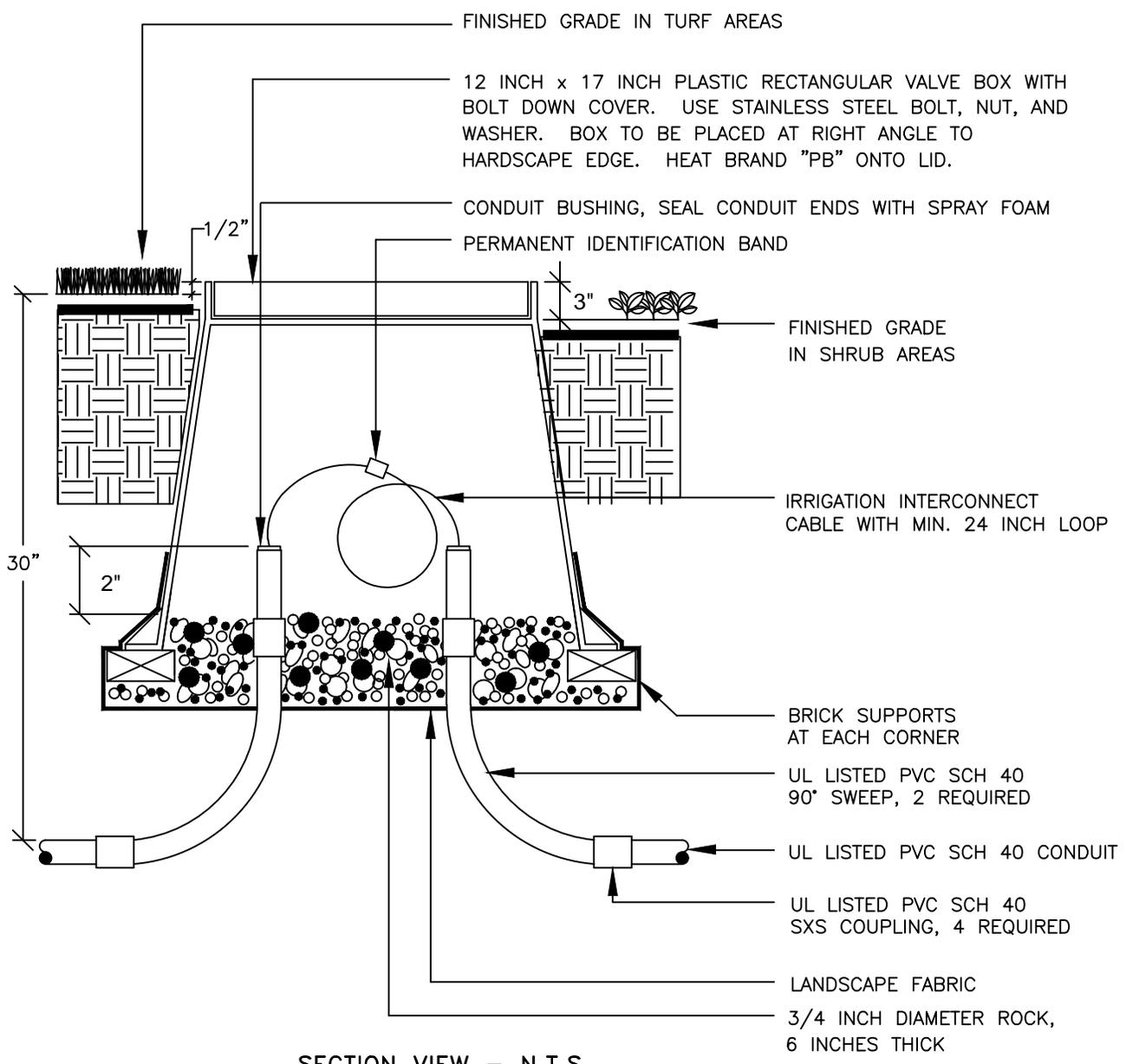


SECTION VIEW - N.T.S.

NOTES:

- ALL CONTROL WIRE SPLICES SHALL BE INSTALLED INSIDE PULL BOXES.
- ALL SPLICES SHALL BE MADE IN ACCORDANCE WITH STANDARD PLAN NO. 517.
- WRAP LANDSCAPE FABRIC AROUND SIDES AND BOTTOM OF BOX TO COVER ALL OPENINGS.
- 200' MAXIMUM BETWEEN PULL BOXES.

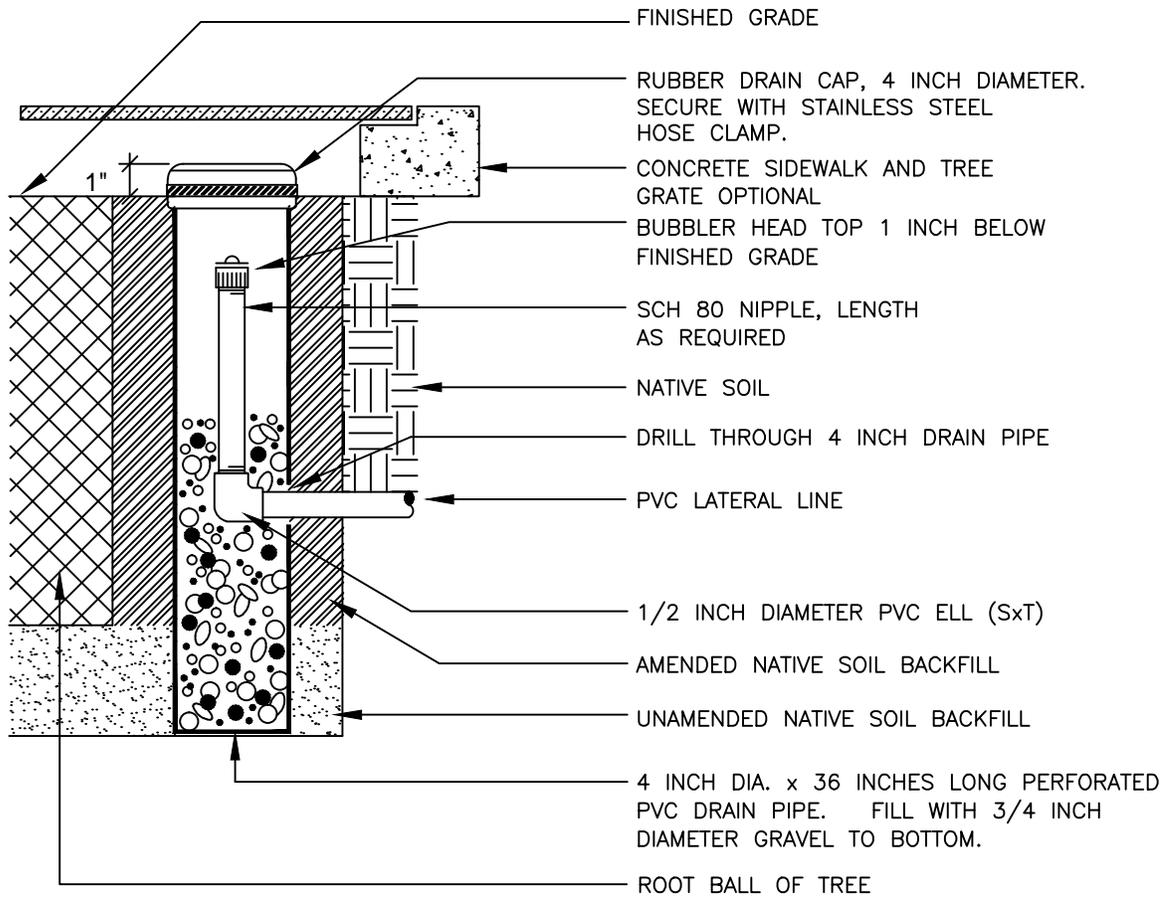
REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO. 518
	CONTROL WIRE PULL BOX	
	 APPROVED BY: MARK LEWIS R.O.E. 49335 CITY ENGINEER	DATE: 04/01/15
		SHEET: 1 OF 1



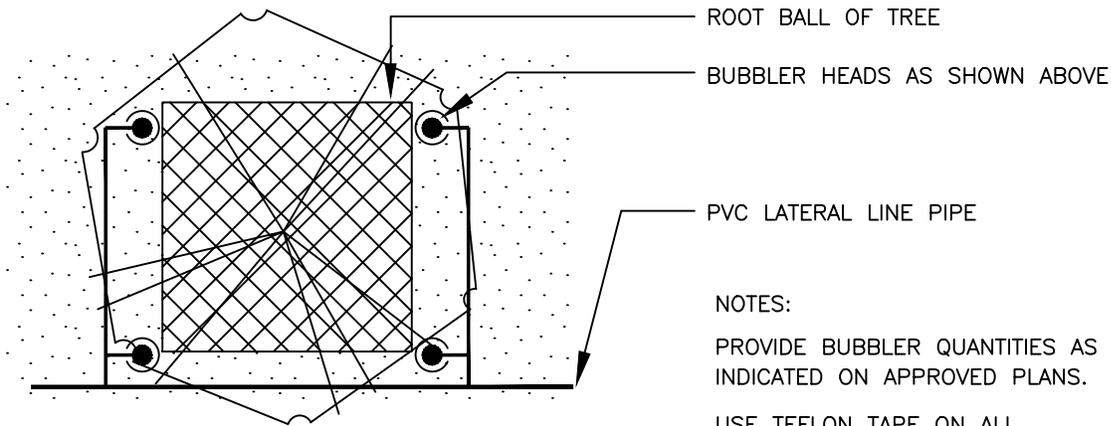
SECTION VIEW - N.T.S.

NOTES:
 THE ENDS OF CONDUIT SHALL BE CAPPED UNTIL PULLING OF CONDUCTORS IS STARTED
 WRAP LANDSCAPE FABRIC AROUND SIDES AND BOTTOM OF BOX TO COVER ALL OPENINGS.

REVISIONS	CITY OF FOUNTAIN VALLEY		STANDARD PLAN NO.
	IRRIGATION INTERCONNECT CABLE		
	 APPROVED BY: MARK LEWIS R.O.E. 49335 CITY ENGINEER		SHEET: 1 OF 1
	DATE: 04/01/15		



SECTION VIEW - N.T.S.



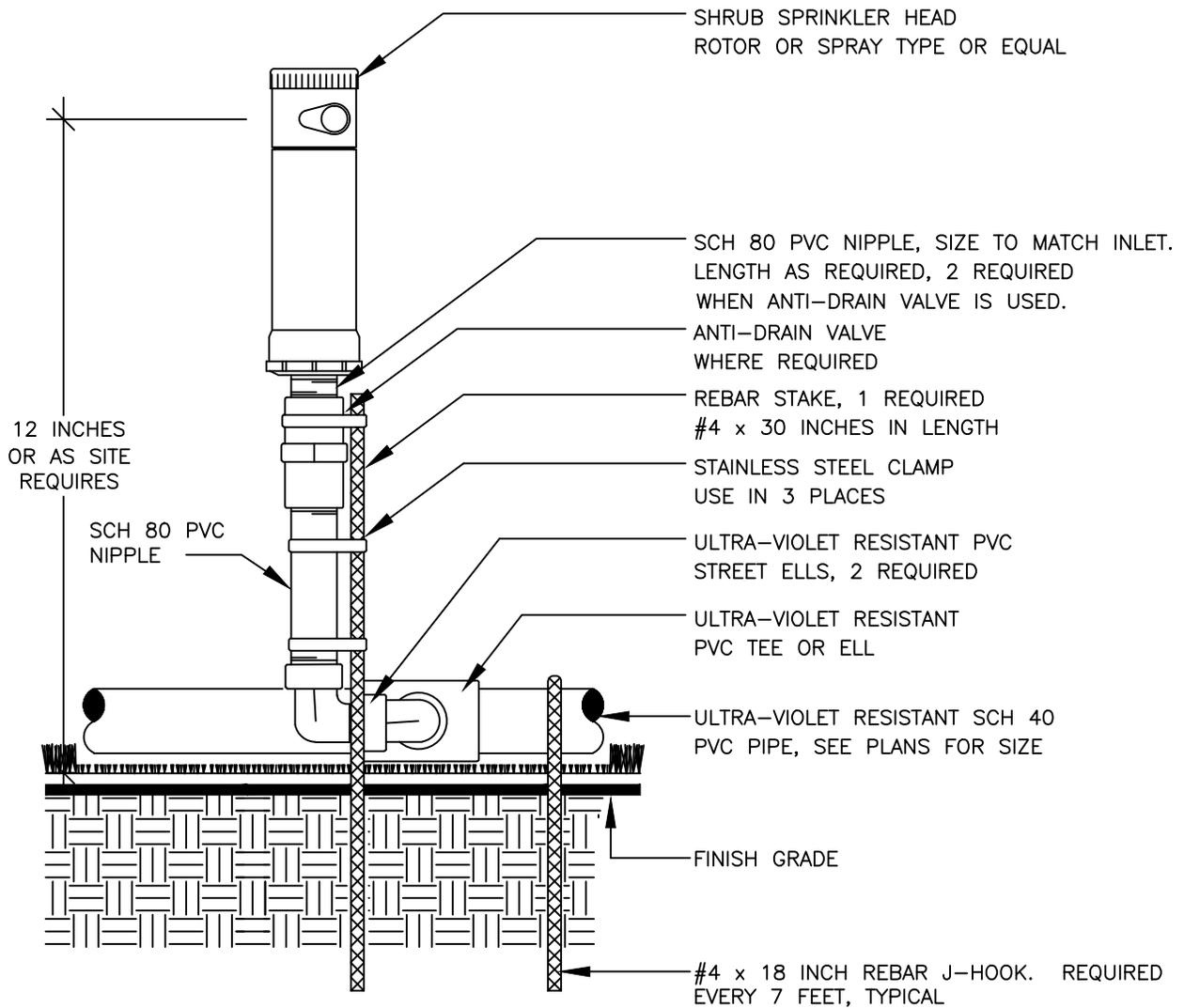
PLAN VIEW - N.T.S.

NOTES:

PROVIDE BUBBLER QUANTITIES AS INDICATED ON APPROVED PLANS.

USE TEFLON TAPE ON ALL THREADED FITTINGS.

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	TREE BUBBLER	520
	APPROVED BY:  MARK LEWIS R.O.E. 49335 CITY ENGINEER	SHEET: 1 OF 1
		DATE: 04/01/15



NOTES:

ALL PIPE INSTALLED ON GRADE TO BE SCH 40 ULTRA-VIOLET RESISTANT PVC.

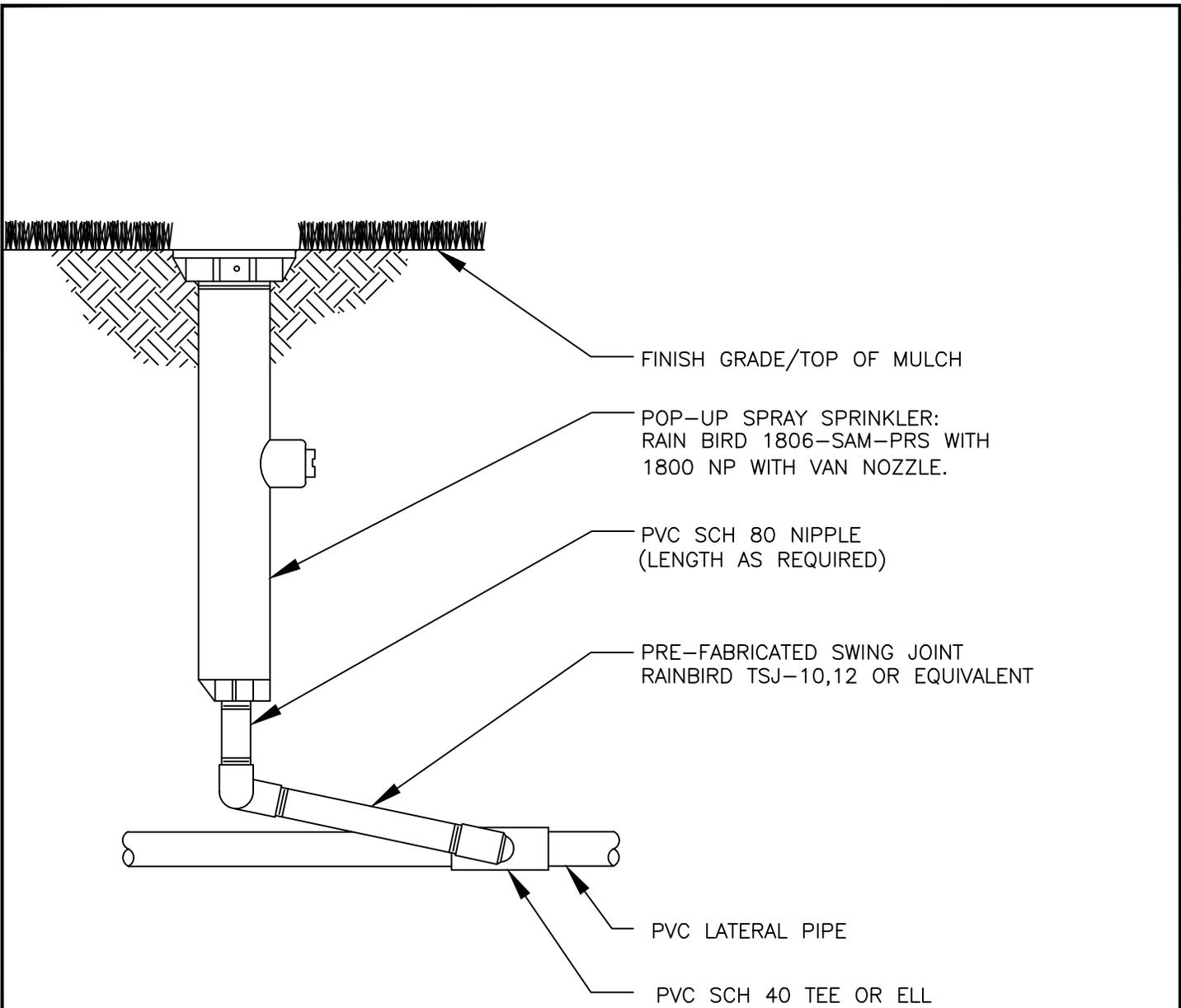
SPRINKLER HEAD ASSEMBLY TO BE INSTALLED PLUMB.

DO NOT INSTALL SPRINKLER HEAD ASSEMBLY CLOSER THAN 5 FEET TO SIDEWALKS,
CURBS, DRIVEWAYS, OR PEDESTRIAN AREAS.

USE TEFLON TAPE ON ALL THREADED FITTINGS.

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	SPRINKLER HEAD ON RISER AT GRADE	521 - 1
	APPROVED BY:  MARK LEWIS R.O.E. 49335 CITY ENGINEER	SHEET: 1 OF 7

DATE: 04/01/15



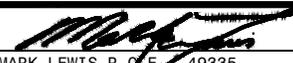
NOTES:

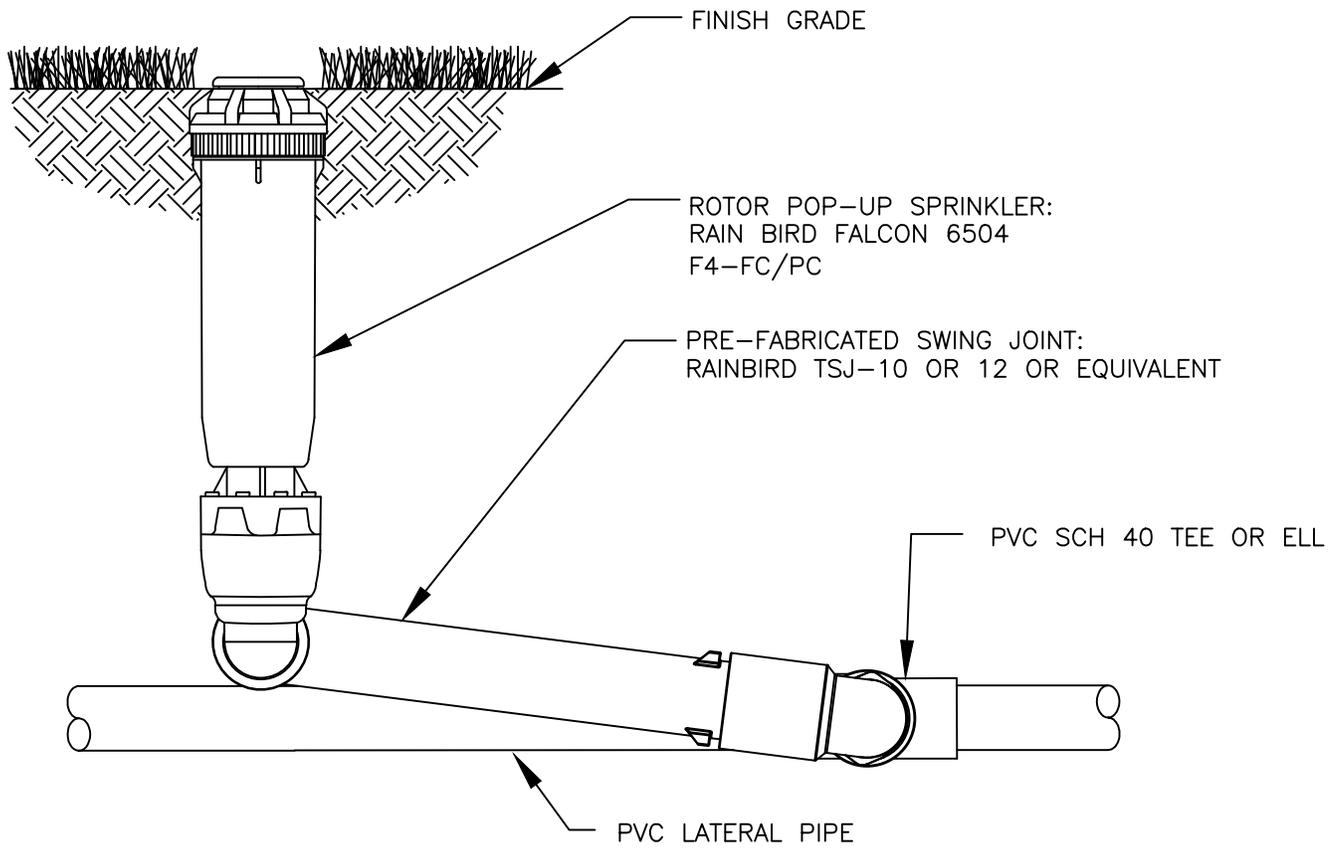
ALL PIPE INSTALLED ON GRADE TO BE SCH 40 ULTRA-VIOLET RESISTANT PVC.

SPRINKLER HEAD ASSEMBLY TO BE INSTALLED PLUMB.

DO NOT INSTALL SPRINKLER HEAD ASSEMBLY CLOSER THAN 5 FEET TO SIDEWALKS, CURBS, DRIVEWAYS, OR PEDESTRIAN AREAS.

USE TEFLON TAPE ON ALL THREADED FITTINGS.

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	POP-UP SPRAY SPRINKLER 1806 RAINBIRD WITH SWING JOINT	521-2
	APPROVED BY:  MARK LEWIS R.O.E. 49335 CITY ENGINEER	SHEET: 2 OF 7
	DATE: 04/01/15	



NOTES:

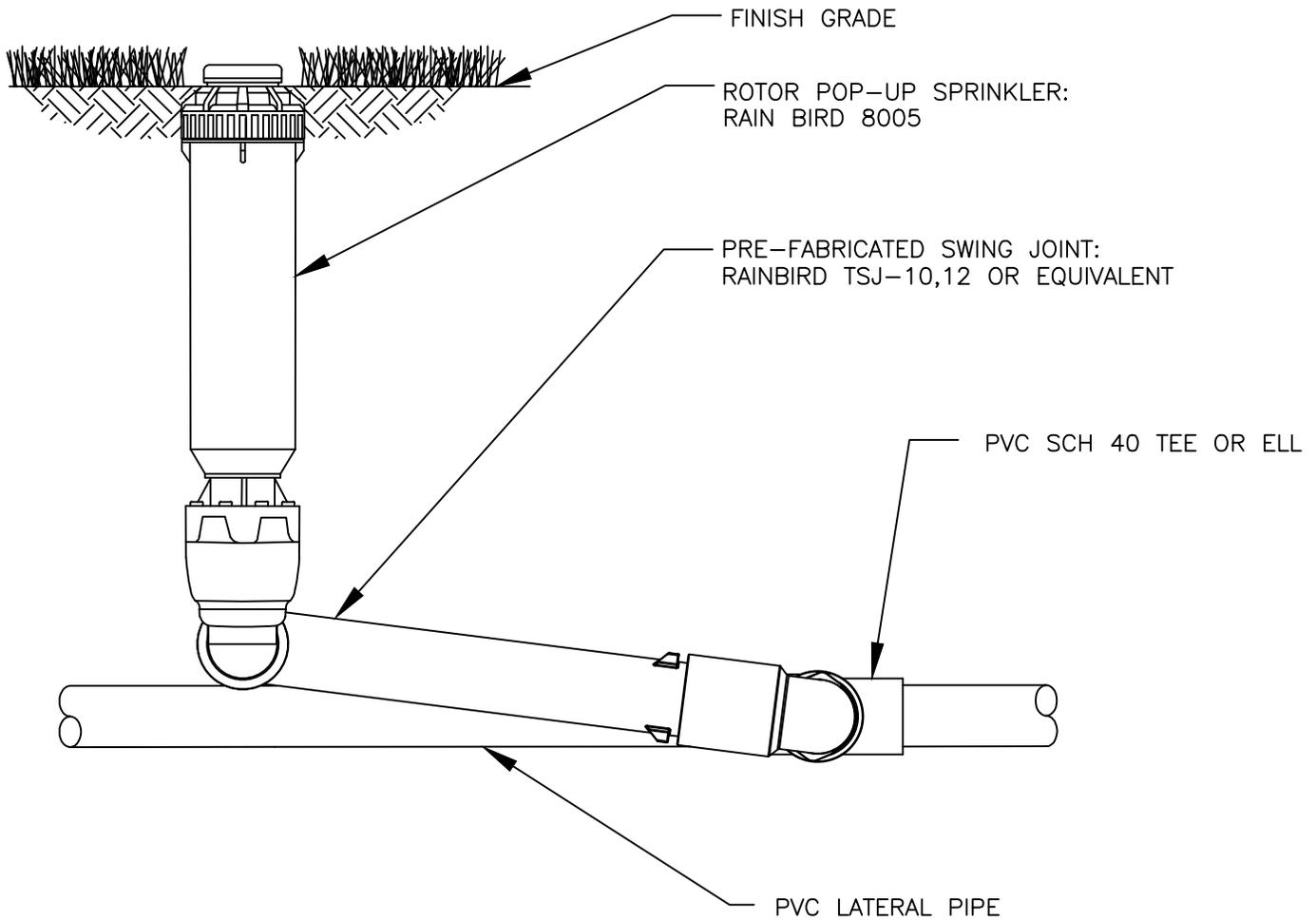
ALL PIPE INSTALLED ON GRADE TO BE SCH 40 ULTRA-VIOLET RESISTANT PVC.

SPRINKLER HEAD ASSEMBLY TO BE INSTALLED PLUMB.

DO NOT INSTALL SPRINKLER HEAD ASSEMBLY CLOSER THAN 5 FEET TO SIDEWALKS, CURBS, DRIVEWAYS, OR PEDESTRIAN AREAS.

USE TEFLON TAPE ON ALL THREADED FITTINGS.

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	ROTOR POP-UP SPRINKLER RAIN BIRD FALCON 6504	521 - 3
	APPROVED BY:  MARK LEWIS R.O.E. 49335 CITY ENGINEER	SHEET: 3 OF 7
	DATE: 04/01/15	



NOTES:

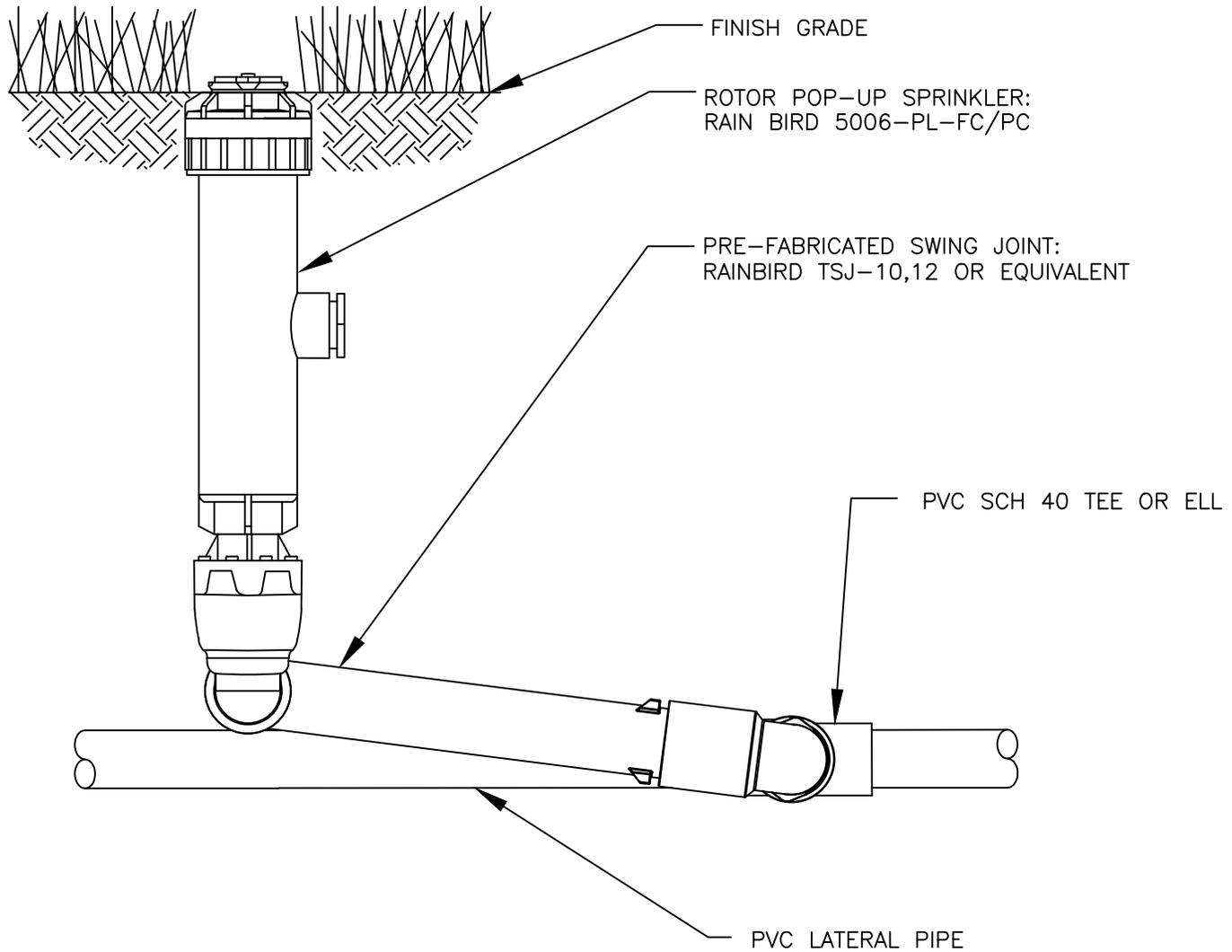
ALL PIPE INSTALLED ON GRADE TO BE SCH 40 ULTRA-VIOLET RESISTANT PVC.

SPRINKLER HEAD ASSEMBLY TO BE INSTALLED PLUMB.

DO NOT INSTALL SPRINKLER HEAD ASSEMBLY CLOSER THAN 5 FEET TO SIDEWALKS, CURBS, DRIVEWAYS, OR PEDESTRIAN AREAS.

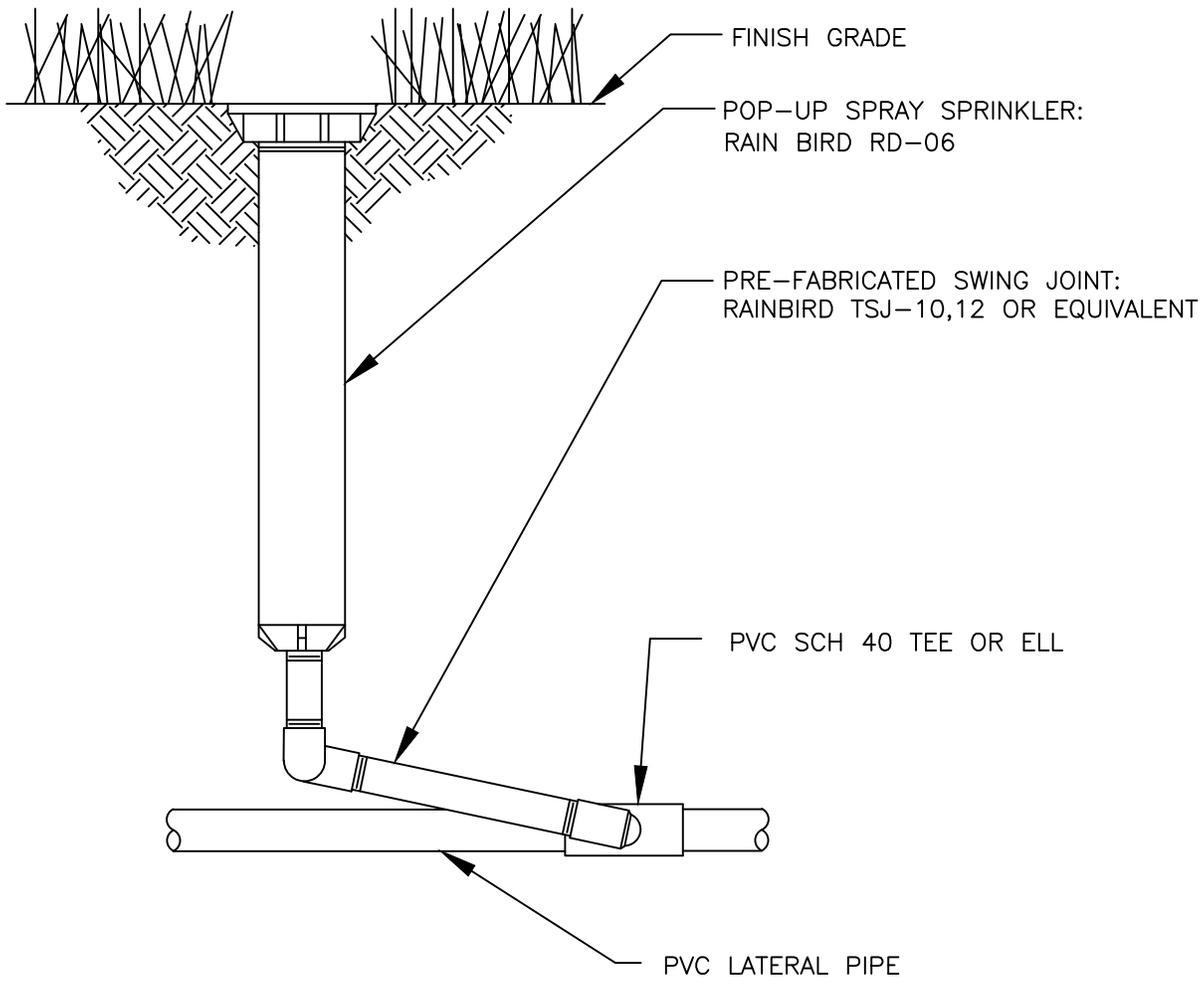
USE TEFLON TAPE ON ALL THREADED FITTINGS.

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	ROTOR POP-UP SPRINKLER RAINBIRD 8005	521 - 4
	APPROVED BY:  MARK LEWIS R.O.E. 49335 CITY ENGINEER	SHEET: 4 OF 7
		DATE: 04/01/15

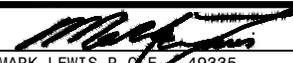


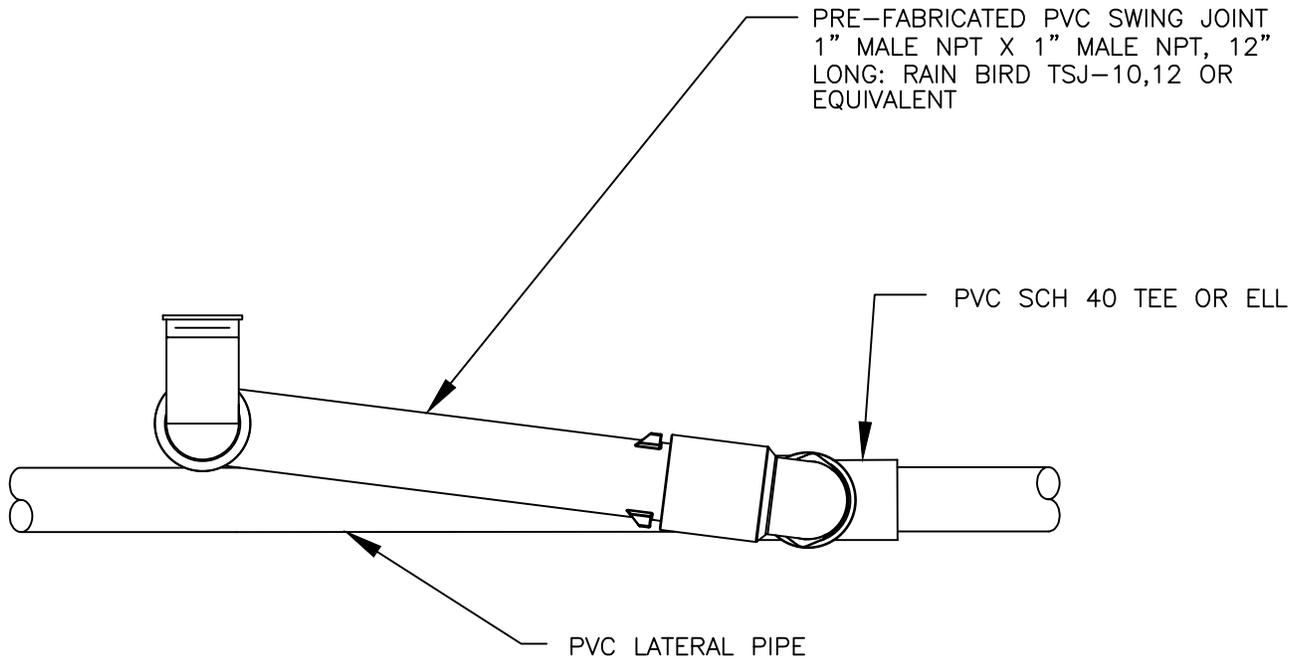
NOTES:
 ALL PIPE INSTALLED ON GRADE TO BE SCH 40 ULTRA-VIOLET RESISTANT PVC.
 SPRINKLER HEAD ASSEMBLY TO BE INSTALLED PLUMB.
 DO NOT INSTALL SPRINKLER HEAD ASSEMBLY CLOSER THAN 5 FEET TO SIDEWALKS,
 CURBS, DRIVEWAYS, OR PEDESTRIAN AREAS.
 USE TEFLON TAPE ON ALL THREADED FITTINGS.

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	ROTOR POP-UP SPRINKLER RAINBIRD 5006 PLUS	521 - 5
	APPROVED BY:  MARK LEWIS R.O.E. 49335 CITY ENGINEER	SHEET: 5 OF 7
		DATE: 04/01/15



NOTES:
 ALL PIPE INSTALLED ON GRADE TO BE SCH 40 ULTRA-VIOLET RESISTANT PVC.
 SPRINKLER HEAD ASSEMBLY TO BE INSTALLED PLUMB.
 DO NOT INSTALL SPRINKLER HEAD ASSEMBLY CLOSER THAN 5 FEET TO SIDEWALKS,
 CURBS, DRIVEWAYS, OR PEDESTRIAN AREAS.
 USE TEFLON TAPE ON ALL THREADED FITTINGS.

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	POP-UP SPRAY SPRINKLER RAINBIRD RD-06 WITH SWING JOINT	521 - 6
	APPROVED BY:  MARK LEWIS R.O.E. 49335 CITY ENGINEER	SHEET: 6 OF 7
	DATE: 04/01/15	



NOTES:

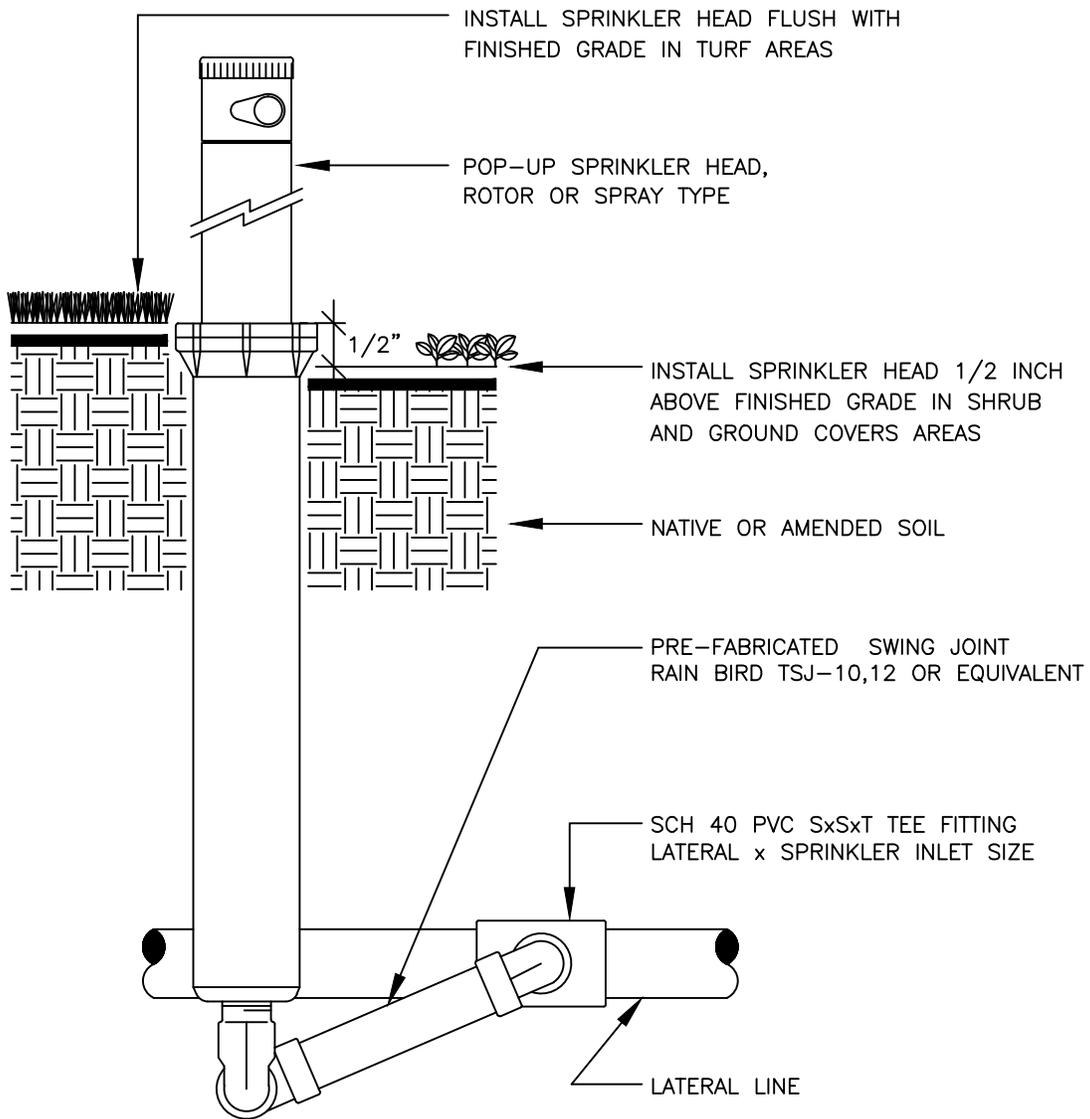
ALL PIPE INSTALLED ON GRADE TO BE SCH 40 ULTRA-VIOLET RESISTANT PVC.

SPRINKLER HEAD ASSEMBLY TO BE INSTALLED PLUMB.

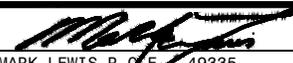
DO NOT INSTALL SPRINKLER HEAD ASSEMBLY CLOSER THAN 5 FEET TO SIDEWALKS, CURBS, DRIVEWAYS, OR PEDESTRIAN AREAS.

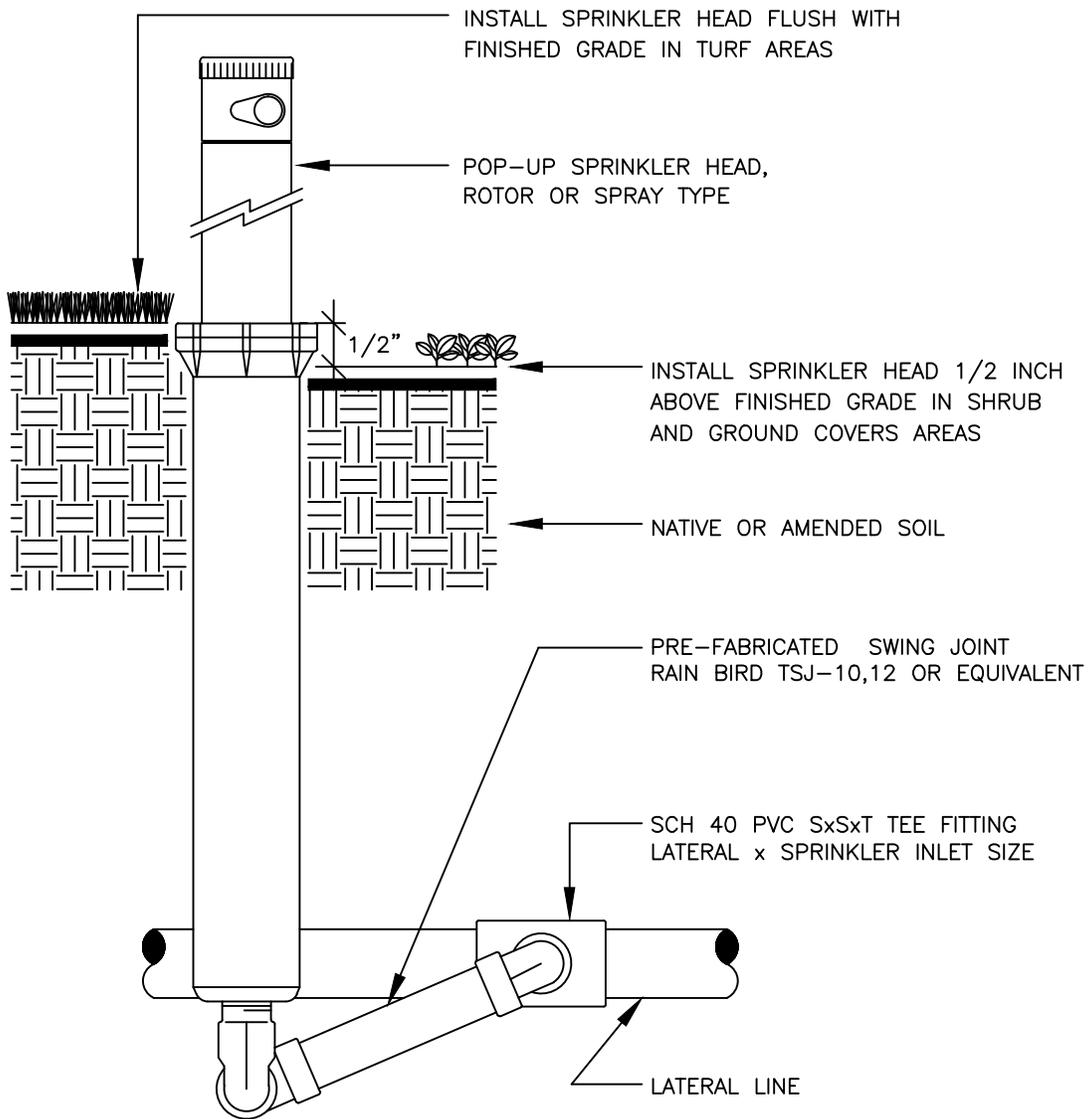
USE TEFLON TAPE ON ALL THREADED FITTINGS.

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	PRE-FABRICATED SWING JOINT RAIN BIRD TSJ-10,12 OR EQUIVALENT	521-7
	APPROVED BY:  MARK LEWIS R.O.E. 49335 CITY ENGINEER	SHEET: 7 OF 7
		DATE: 04/01/15



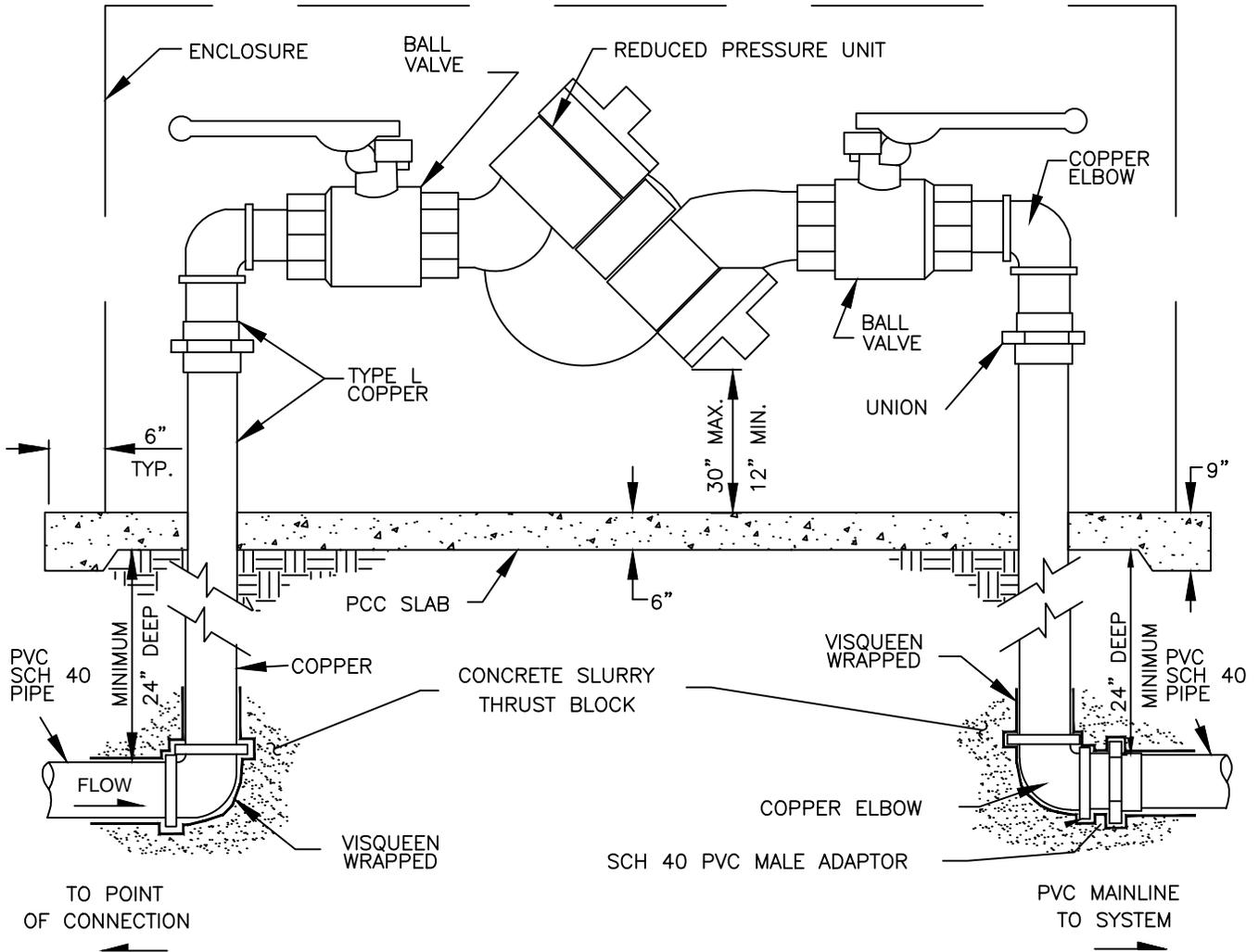
NOTES:
 INSTALL SPRINKLER HEADS 6 INCHES FROM PAVING EDGE IN GROUND COVER AREAS.
 INSTALL SPRINKLER HEADS 4 INCHES FROM PAVING EDGE IN TURF AREAS.
 INSTALL SPRINKLER HEADS PLUMB. ADJUST NOZZLE STREAM TO COVER LANDSCAPE AREA WITHOUT OVERSPRAY ONTO PAVING, FENCES, WALLS, OR BUILDINGS.
 USE TEFLON TAPE ON ALL THREADED FITTINGS.

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	POP-UP SPRINKLER (12 INCH)	522 - 1
	APPROVED BY:  MARK LEWIS R.O.E. 49335 CITY ENGINEER	SHEET: 1 OF 2
	DATE: 04/01/15	



NOTES:
 INSTALL SPRINKLER HEADS 6 INCHES FROM PAVING EDGE IN GROUND COVER AREAS.
 INSTALL SPRINKLER HEADS 4 INCHES FROM PAVING EDGE IN TURF AREAS.
 INSTALL SPRINKLER HEADS PLUMB. ADJUST NOZZLE STREAM TO COVER LANDSCAPE AREA WITHOUT OVERSPRAY ONTO PAVING, FENCES, WALLS, OR BUILDINGS.
 USE TEFLON TAPE ON ALL THREADED FITTINGS.

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	POP-UP SPRINKLER (6 INCH)	522-2
	APPROVED BY:  MARK LEWIS R.O.E. 49335 CITY ENGINEER	SHEET: 2 OF 2
		DATE: 04/01/15

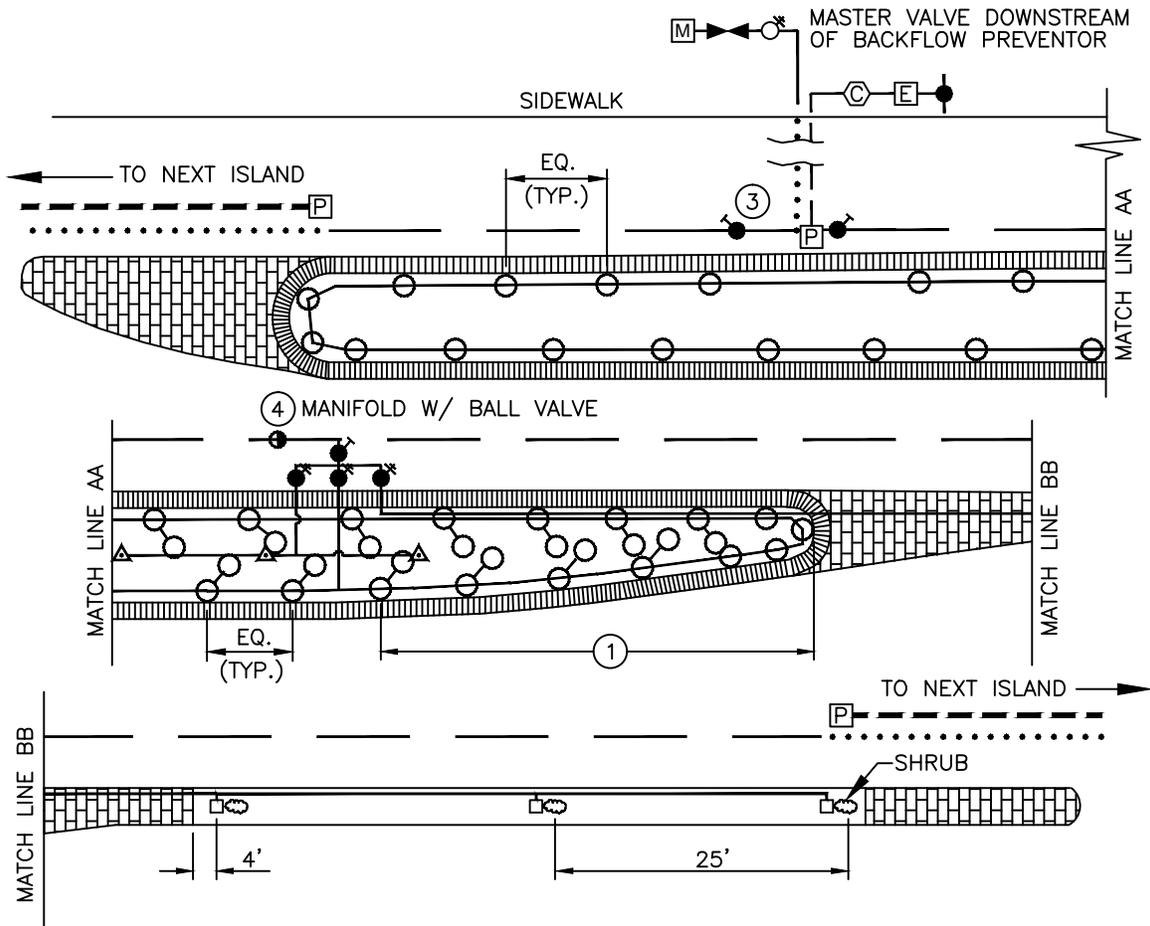


REDUCED PRESSURE PRINCIPLE DEVICE

GENERAL NOTES:

1. INSTALL PER CITY OF FOUNTAIN VALLEY PLUMBING CODE AND WATER DEPT. STD. PLANS.
2. FITTINGS AND PIPE SHALL BE COPPER AND PER CITY APPROVED PLANS AND SPECIFICATIONS.
3. REDUCED PRESSURE PRINCIPLE DEVICE SHALL BE FEBCO MASTER SERIES MODEL 860 RP PAINTED COLOR TO BE "FRAZEE #277, FOREST GREEN ENAMEL" WITH 2 COATS.
4. REMOVE ALL HANDLES AND DELIVER TO THE CITY LANDSCAPE INSPECTOR.
5. THRUST BLOCK TO BE A ONE (1) SACK SLURRY MIX AROUND ELBOW ASSEMBLY THAT HAS THE PIPE AND ELBOW WRAPPED WITH VISQUEEN.
6. ENCLOSURE SHALL BE SAFE CAGE MODEL SC1 WITH Q1 BRACKETS FOR 3/4" AND 1" DEVICES, AND SC2 WITH Q2 BRACKETS FOR 1 1/2" AND 2" DEVICES. BRACKETS TO BE SURFACE MOUNTED. PAINT PER GENERAL NOTE # 3.
7. ALL REDUCED PRESSURE PRINCIPLE DEVICES MUST BE TESTED AND CERTIFIED BY AN ORANGE COUNTY CERTIFIED TESTER THAT POSSESSES A CITY OF FOUNTAIN VALLEY BUSINESS LICENSE AT TIME OF INSTALLATION.

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO. 523
	REDUCED PRESSURE PRINCIPAL DEVICE (CITY OWNED AND MAINTAINED DEVICES)	
	APPROVED BY: MARK LEWIS R.O.E. 49335 CITY ENGINEER	DATE: 04/01/15
	SHEET: 1 OF 1	

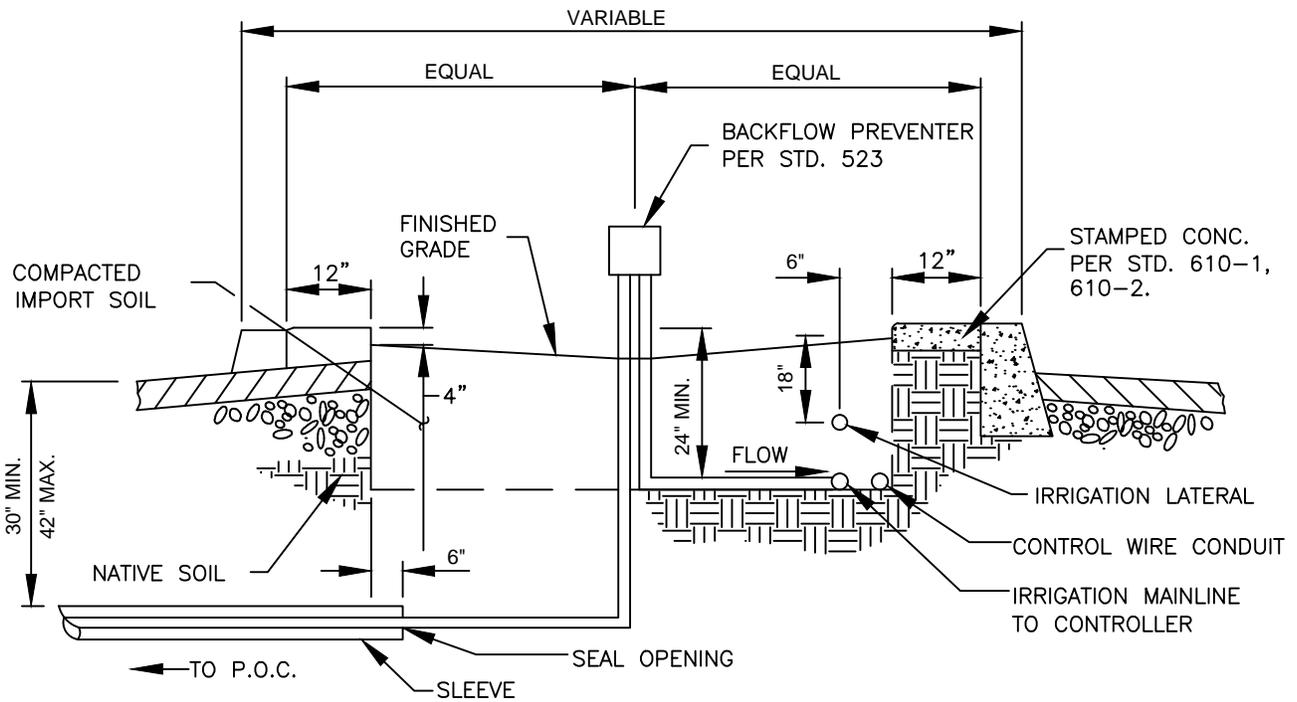


- | | | | |
|----------|--|-------|--|
| M | - WATER SERVICE | ————— | - MAIN IRRIGATION SUPPLY |
| C | - IRRIGATION CONTROLLER | | - IRRIGATION CROSSOVER (SLEEVE)
LINE IN CONDUIT |
| E | - ELECTRIC SERVICE | ————— | - LATERAL IRRIGATION LINE |
| ● | - S.C.E. POWER SOURCE | ————— | - CONTROL WIRE |
| ⋈ | - BACKFLOW PREVENTER | ————— | - CROSSOVER CONDUIT |
| ● | - BALL VALVE | ○ | - (2) SHRUB SPRAY HEAD |
| ○* | - ELECTRIC MASTER VALVE
(NORMALLY OPEN) | △ | - SHRUB BUBBLER HEAD |
| P | - CONTROL WIRING PULL BOX
(WITH 3' COIL OF WIRE MIN.) | □ | - SHRUB BUBBLER HEAD |
| ● | - QUICK COUPLER | ●* | - ELECTRIC REMOTE
CONTROL VALVE |

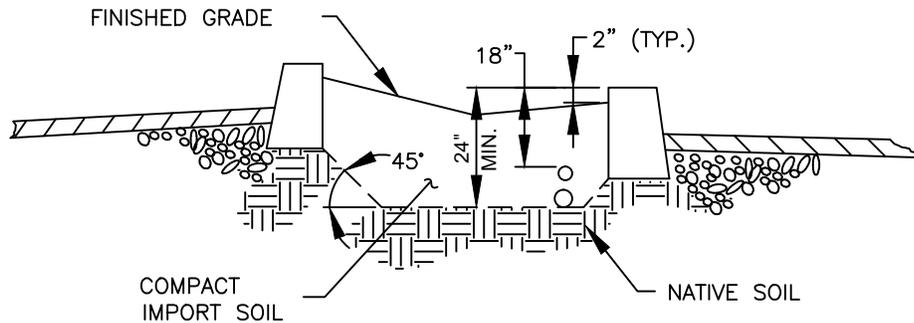
NOTES:

- (1) HEAD SPACING ADJUSTED TO COVER ROOT ZONE OF PLANT MATERIAL WITHOUT OVERTHROWING ONTO CONC. OR A/G.
- (2) TYPE OF EQUIPMENT AND EXACT LOCATIONS ARE TO BE PER PUBLIC WORKS APPROVED PLANS.
- (3) EQUIPMENT OTHER THAN CROSS-OVERS SHOWN IN STREET SECTIONS ARE TO BE A MINIMUM OF 18" BEHIND CURB.
- (4) ALL RCV'S SHALL HAVE AC IN CLOSE PROXIMITY FOR FLUSHING.

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO. 524
	MEDIAN IRRIGATION LAYOUT	
	 APPROVED BY: MARK LEWIS R.O.E. 49335 CITY ENGINEER	DATE: 04/01/15
		SHEET: 1 OF 1



FULL WIDTH MEDIAN

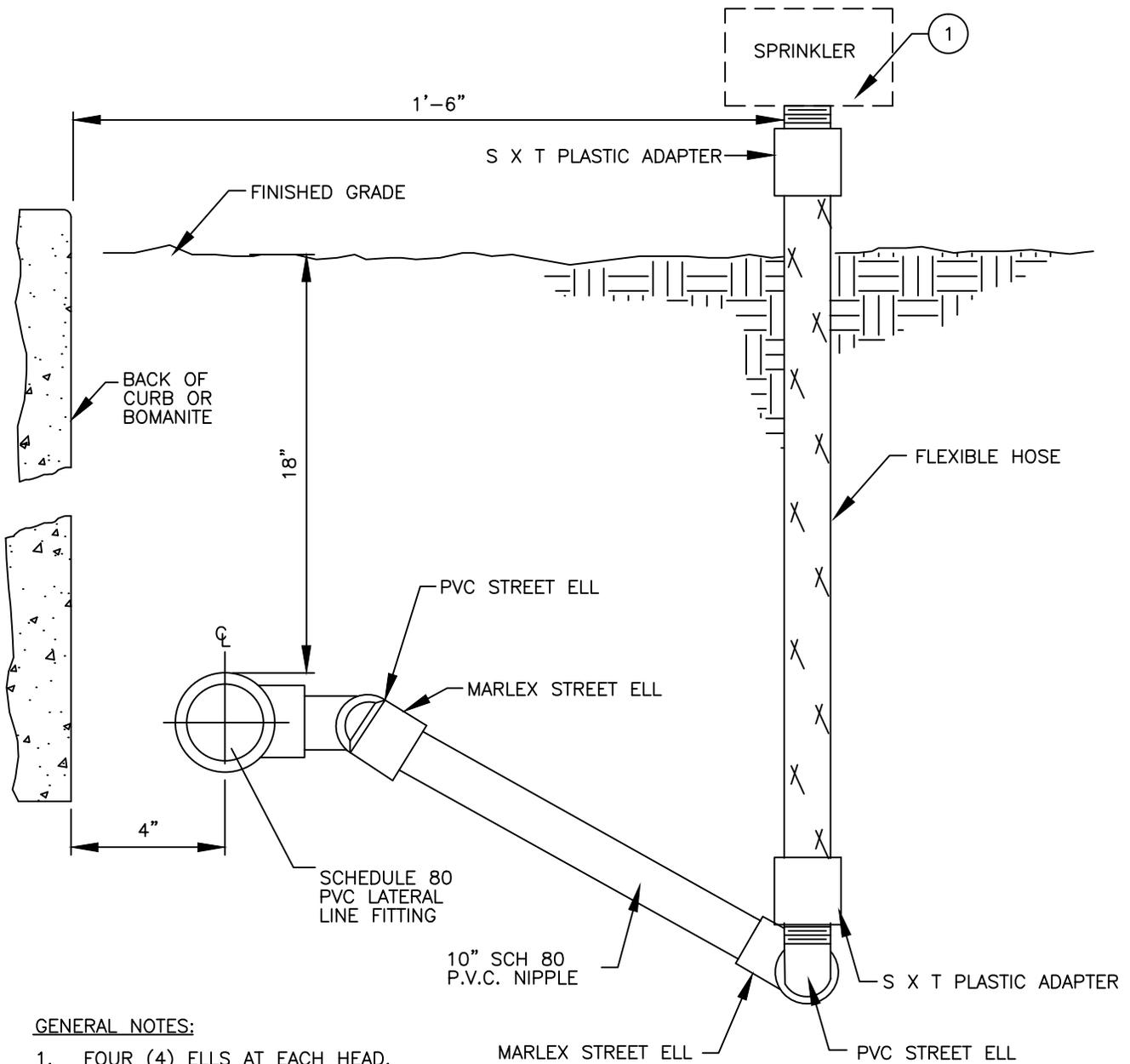


TURN POCKET MEDIAN

GENERAL NOTES:

1. ALL PIPE AND FITTINGS SHALL BE PER CITY APPROVED PLANS AND SPECIFICATIONS.
2. CONTROL WIRES SHALL BE AT SAME DEPTH AS ADJACENT MAINLINE.
3. ALL PIPE, SLEEVES AND CONDUITS IN STATE RIGHT-OF-WAY SHALL BE INSTALLED PER CALTRANS REQUIREMENTS.

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO. 525
	MEDIAN PROFILE	
	 APPROVED BY: MARK LEWIS R.O.E. 49335 CITY ENGINEER	DATE: 04/01/15
		SHEET: 1 OF 1



GENERAL NOTES:

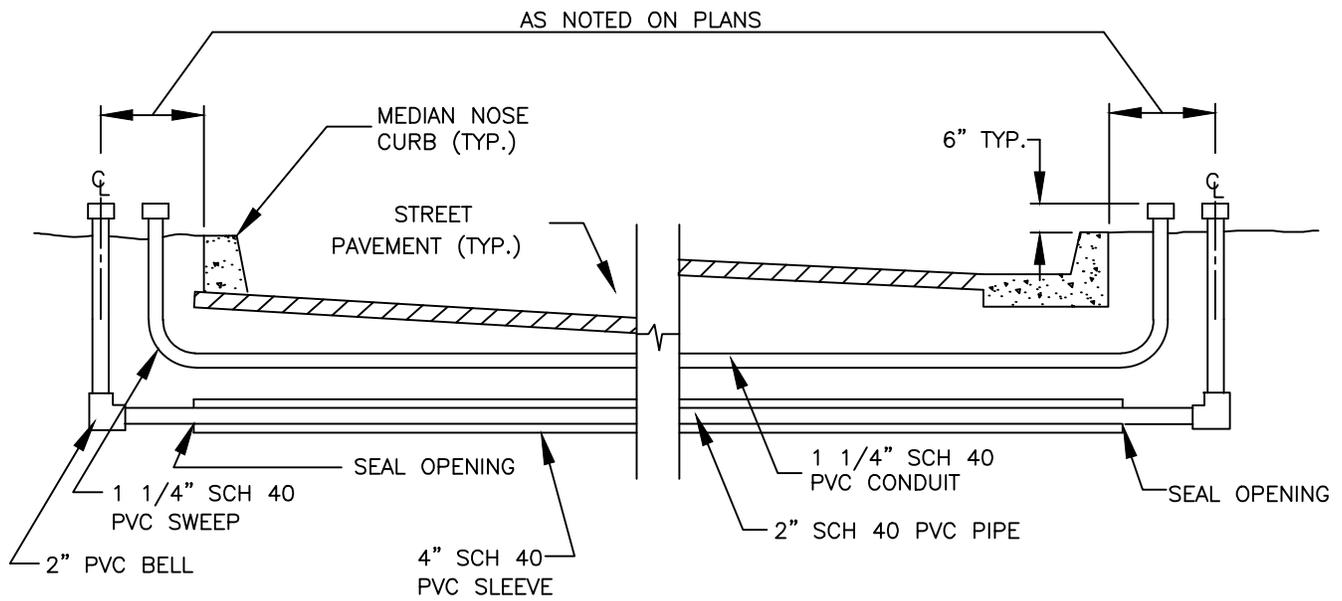
1. FOUR (4) ELLS AT EACH HEAD.

NOTES:

① WADE RAIN, MO 4100, 1/2"X10" M X M, FLEX NIPPLE.

REVISIONS	CITY OF FOUNTAIN VALLEY	STANDARD PLAN NO.
	MEDIAN SHRUB HEAD	526
	APPROVED BY:  MARK LEWIS R.O.E. 49335 CITY ENGINEER	SHEET: 1 OF 1

DATE: 04/01/15



MEDIAN/STREET SECTION

GENERAL NOTES:

1. PIPE CONDUIT SHALL BE A MINIMUM OF 30" BELOW PAVEMENT AND A MAXIMUM DEPTH OF 42", UNLESS OTHERWISE NOTED.
2. PIPE AND CONDUIT ENDS SHALL BE SEALED WITH SOLVENT WELDED PVC CAPS.
3. ALL CONDUIT BENDS SHALL BE MANUFACTURED SWEEP ELLS WITH A MINIMUM 24" RADIUS.
4. CONDUITS SHALL CONTAIN ONE (1) #14 PULL WIRE CONTINUOUS FROM CONDUIT CUT END TO CUT END.
5. CONDUIT AND PIPE SHALL BE LAID IN THE SAME TRENCH AND SHALL BE IN ACCORDANCE WITH STANDARD PLAN NO. 501 FOR SLEEVE TRENCHING.
6. CONDUIT AND PIPE UNDER STATE HIGHWAYS SHALL BE INSTALLED PER CALTRANS STANDARDS AND SPECIFICATIONS.
7. PIPE AND CONDUITS SHALL BE CONNECTED WITH SOLVENT WELDED SCH 40 PVC FITTINGS.
8. RISERS SHOWN IN PAVEMENT AREAS SHALL BE CAPPED 12" BELOW PAVEMENT.
9. ALL CONTINUOUSLY PRESSURED PIPE SHALL BE SCHEDULE 80 PVC.

REVISIONS	CITY OF FOUNTAIN VALLEY		STANDARD PLAN NO.
	IRRIGATION CROSSOVER MEDIAN STREET SECTION		
	 APPROVED BY: MARK LEWIS R.O.E. 49335 CITY ENGINEER		527
	DATE: 04/01/15		SHEET: 1 OF 1