

STANDARD DRAWINGS

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2003 SECONDARY WATER IRRIGATION CONNECTION
2004 SECONDARY WATER STANDARD NOTES
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2007 TIE DOWN THRUST RESTRAINTS
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2019 AIR VACUUM RELIEF VALVE DETAIL
2020 IRRIGATION SLIDE GATE DETAIL
2021 HEADWALL DETAIL
2022 HEADWALL DETAIL
2023 SILT TRAP BOX DETAIL

STORM DRAIN

SD-1 MANHOLE COVERS
SD-2 MANHOLE COVERS 2
SD-3 STORM DRAIN MARKERS
SD-4 STORM DRAIN MARKER ANCHORS

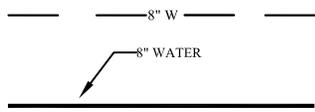
STREETS

3010 TRENCH CROSS SECTION TERMINOLOGY & STANDARD SIZES
3012 ROAD WIDENING
S-1 ROAD WIDTHS AND BORDER AREAS
S-2 SINGLE FAMILY REAR AND SIDE PARK STRIPS ON COLLECTOR STREETS
S-3 SIGN POSTS
SN 10B SLIP BASE SIGN BASE (B3) INSTALLATION

STREETLIGHT

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SL-2 ELECTRICAL BOX LID
SL-3 STEELIGHT PEDESTALS
TSG 002636 CATEGORY 1 STREETLIGHT
TSG 003175 CATEGORY 2 STREETLIGHT
AD 40265 CATEGORY 3 STREETLIGHT
TSG 003314 CATEGORY 4 STREETLIGHT

WATER



EXISTING WATER



PROPOSED WATER



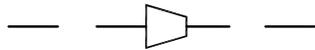
VALVE



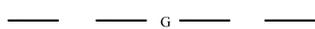
FIRE HYDRANT



PRESSURE REGULATING VALVE



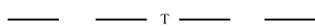
REDUCER/ENLARGER



GAS LINE



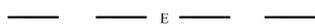
SEWER LINE



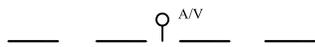
TELEPHONE LINE



WATER METER



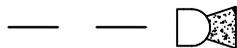
ELECTRIC LINE



AIR AND VACUUM VALVE



BLOW-OFF



END CAP



PLUG



THRUST BLOCK

PREPARED BY: _____

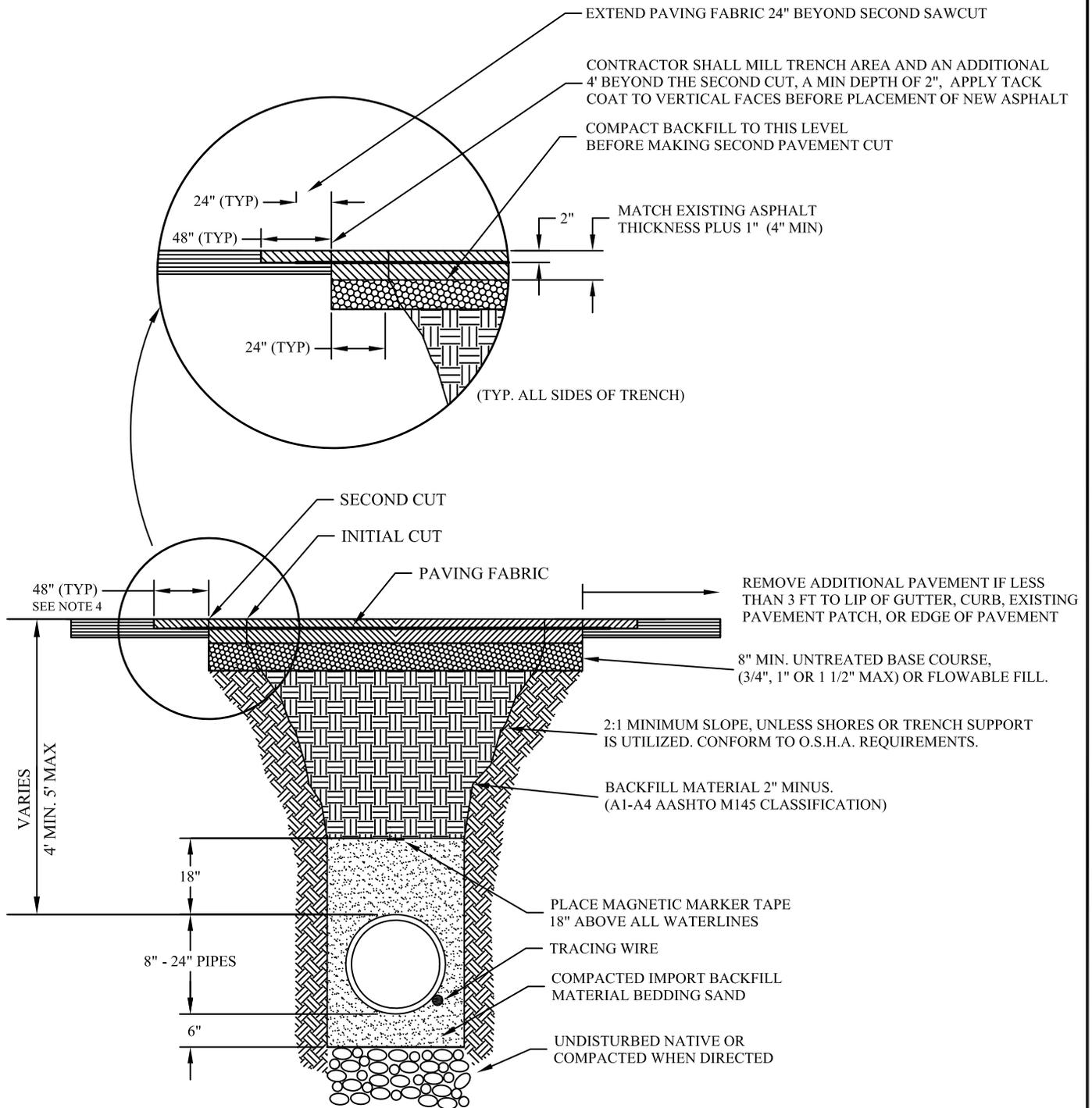


SOUTH JORDAN CITY

			DRAWN: KS
			DATE 1/06
DATE	REVISIONS	BY	

STANDARD SYMBOLS

STANDARD
DRAWING
3005



NOTES:

1. NO SAW CUTS TO END UP IN THE WHEEL PATH
2. AFTER THE SECOND CUT, PATCH TRENCH UP TO THE EXISTING ROAD SURFACE THEN MILL THE TRENCH AREA AND AN ADDITIONAL 4 FT BEYOND THE SECOND CUT OR AS DIRECT BY THE CITY ENGINEER ACCORDING TO CITY STANDARDS.
3. PAVING FABRIC PER APWA STANDARD ROADWAY PAVEMENT GEOTEXTILE, NON-WOVEN
4. IF AGE OF ROAD IS LESS THAN 5 YRS, THE 48" WILL BE INCREASED TO FULL WIDTH OF ROAD, OR AS DETERMINED BY THE CITY ENGINEER OR DESIGNER.

PREPARED BY: _____

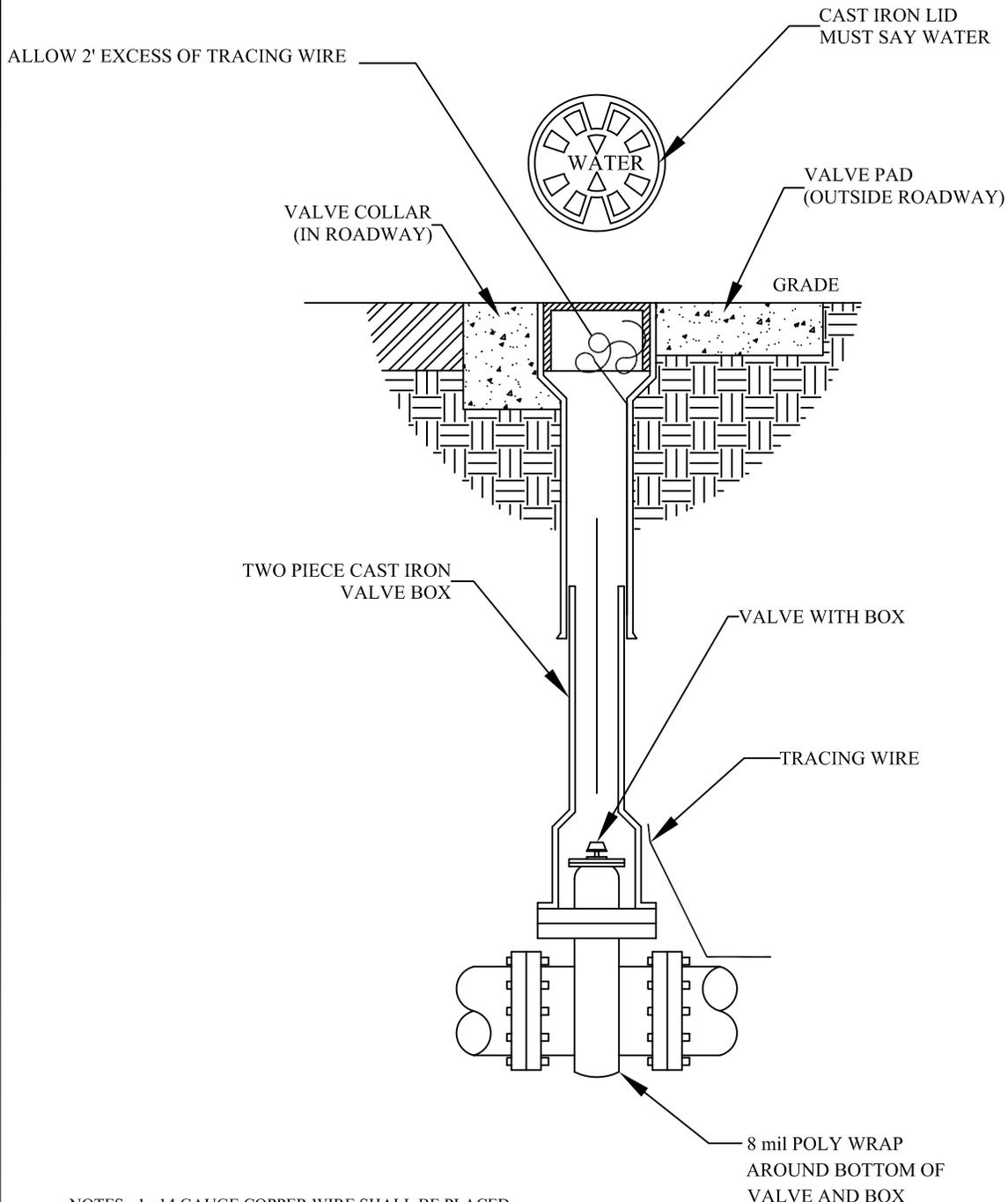


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04/11		JRF	KS
			DATE
			1/06

**TRENCH CROSS SECTION
TERMINOLOGY & STANDARD SIZES**

STANDARD
DRAWING
3010



- NOTES: 1. 14 GAUGE COPPER WIRE SHALL BE PLACED OUTSIDE OF BOTTOM OF BOX AND INSIDE TOP OF BOX
2. VALVE OPERATING NUTS SHALL BE WITHIN 3' TO THE FINISHED SURFACE. EXTENTIONS STEMS WITH ROCK SHIELDS SHALL BE PROVIDED WHERE DEPTHS EXCEED 4'.

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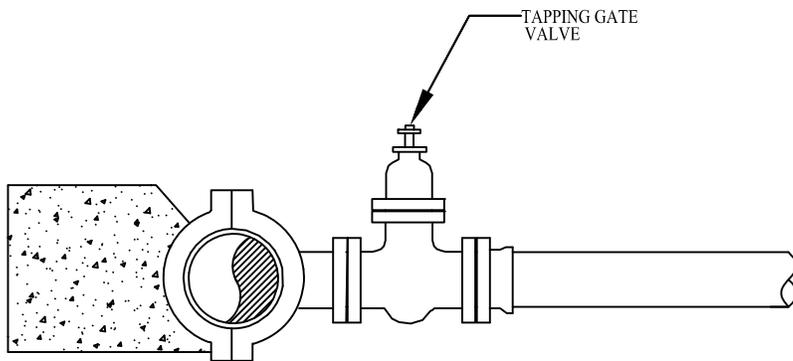
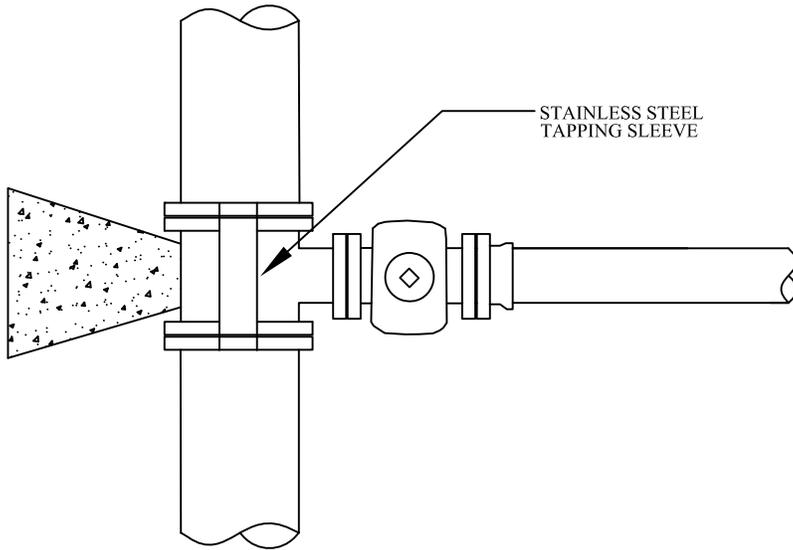


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VALVE BOX INSTALLATION

STANDARD DRAWING
3040



NOTES:

1. REFER TO SECTION 3.3.8 'MAIN LINE VALVES' FOR TAPPING SLEEVE AND VALVE REQUIREMENTS, AND SECTION 3.7.9 'HOT TAPPING' FOR INSTALLATION INSTRUCTIONS
INTERSECTIONS MAY BE OMITTED.
2. SEE SECTION 3.3.4 'MAIN LINE FITTING' AND SECTION 3.7.11 'INSTALLATION OF VALVES AND FITTINGS' FOR INSTALLATION AND WRAPPING FOR BOLTED CONNECTIONS
THRUST BLOCK DETAILS.

RECOMMENDED MATERIALS - STAINLESS STEEL TAPPING SLEEVE
MANUFACTURER TO BE AWWA APPROVED.

PREPARED BY: _____



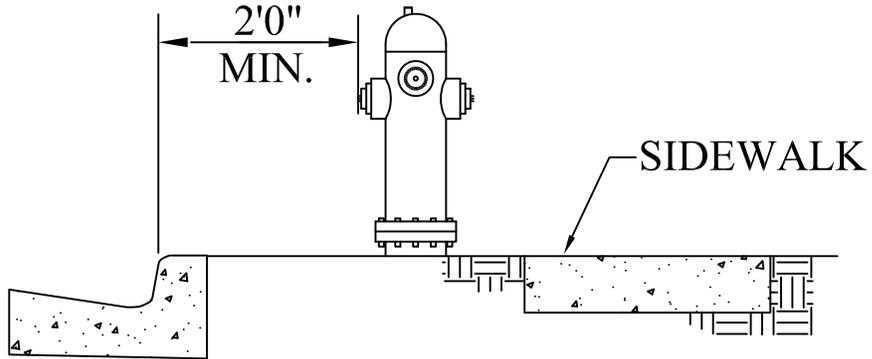
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DATE	REVISIONS	BY	

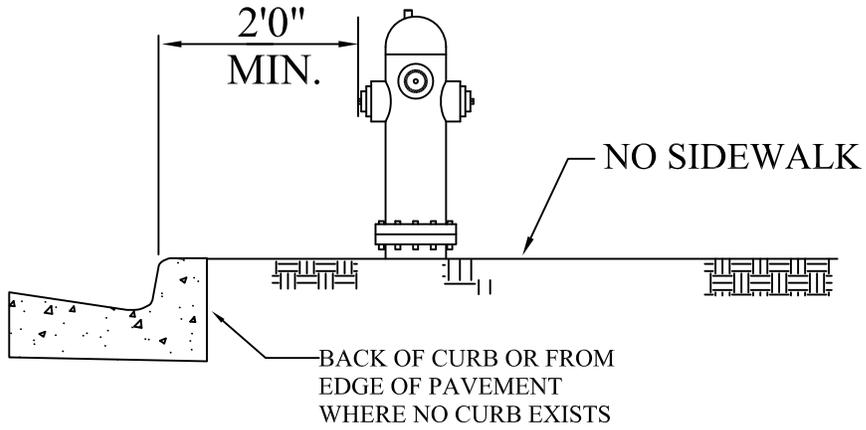
**MECHANICAL JOINT
TAPPING SLEEVE**

STANDARD
DRAWING
3045

CASE 1



CASE 2



NOTES:

1. ABOVE GROUND UTILITIES SHALL BE LOCATED ON PROPERTY LINES SEPERATING LOTS.

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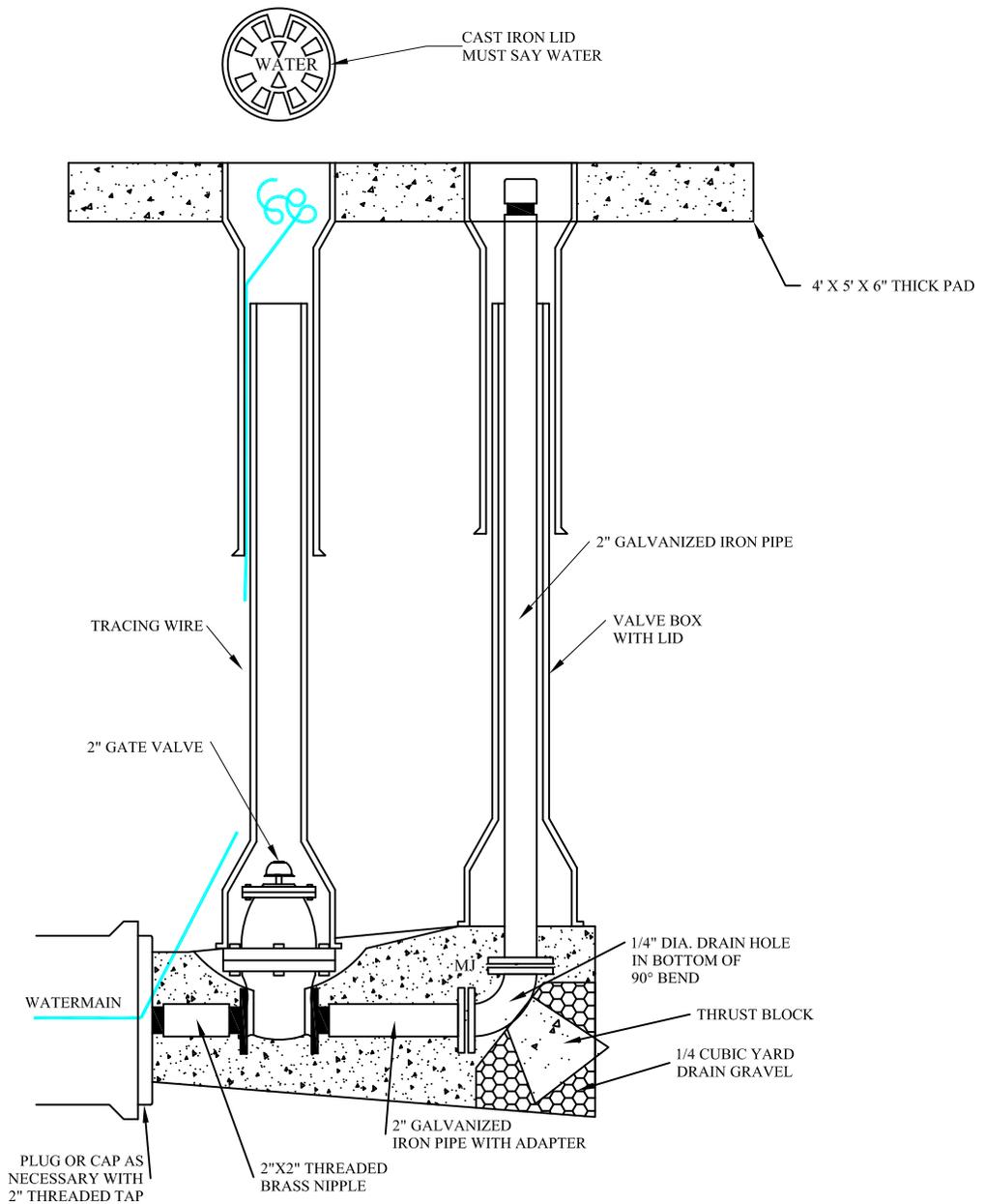


SOUTH JORDAN CITY

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**LOCATION OF
FIRE HYDRANTS**

STANDARD
DRAWING
3050



NOTES:

1. INSPECTION: PRIOR TO BACKFILLING AROUND THRUST BLOCK, SECURE INSPECTION OF INSTALLATION BY CITY ENGINEER.
2. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS.
3. CONCRETE: CLASS 2,000 MINIMUM. POUR CONCRETE AGAINST UNDISTURBED SOIL. THRUST BLOCK MUST MEET APWA.
4. TAPE: APPLY TAPE WRAP TO THE EXTERIOR OF ALL GALVANIZED PIPE PER AWWA C209
5. SPECIAL DESIGN: WATERMAINS 12" AND LARGER WILL REQUIRE SPECIAL WASHOUT ASSEMBLY DESIGN.
6. DRAINAGE: AFTER INSTALLATION OF WASHOUT VALVE ASSEMBLY, VERIFY THE WASHOUT VALVE RISER DRAINS TO GRAVEL.
7. WRAP ALL FOOTINGS PRIOR TO PLACEMENT OF THRUST BLOCKING

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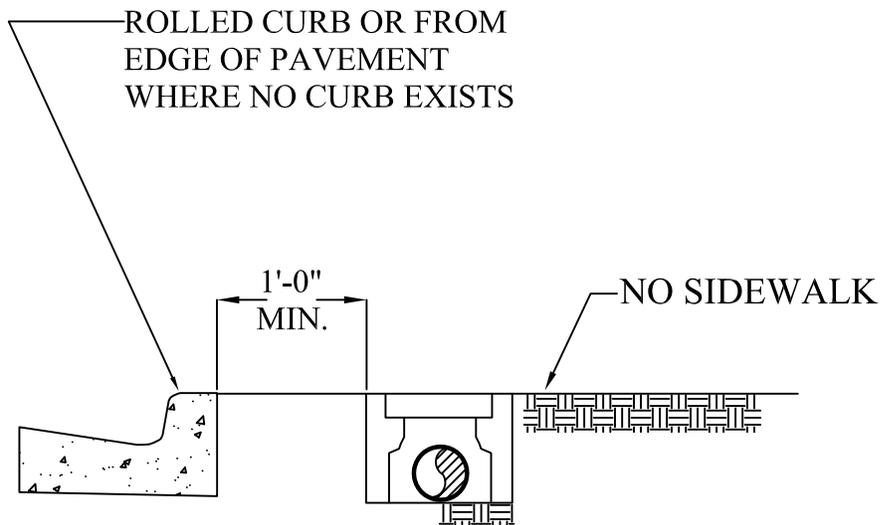
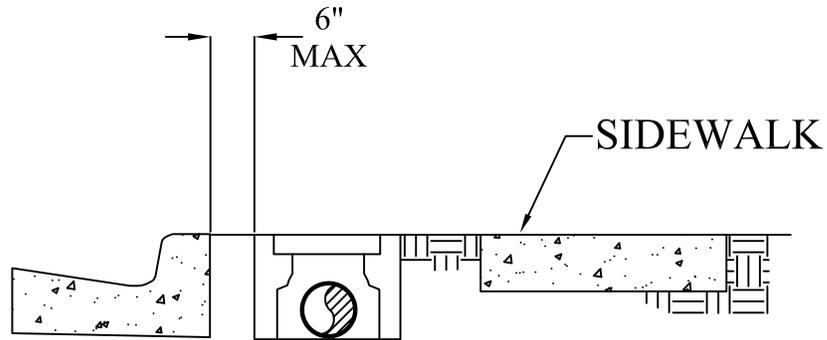


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WASHOUT VALVE ASSEMBLY

STANDARD
DRAWING
3060



NOTES:

1. METER BOXES SHALL BE LOCATED WITHIN 6" FROM THE BACK OF CURB. LONGITUDINAL AXIS PERPENDICULAR TO AND DIRECTLY BEHIND CURB.
2. METER BOXES SHALL NOT BE LOCATED IN DRIVEWAYS
3. COMBINATION AIR RELEASE AND VACUUM VALVE ASSEMBLIES SHALL BE LOCATED BEHIND THE SIDEWALK BUT WITHIN THE PUBLIC SERVICES EASEMENTS (PSE)
4. NO CONCRETE SHALL BE INSTALLED WITHIN 2' OF THE WATER METER.

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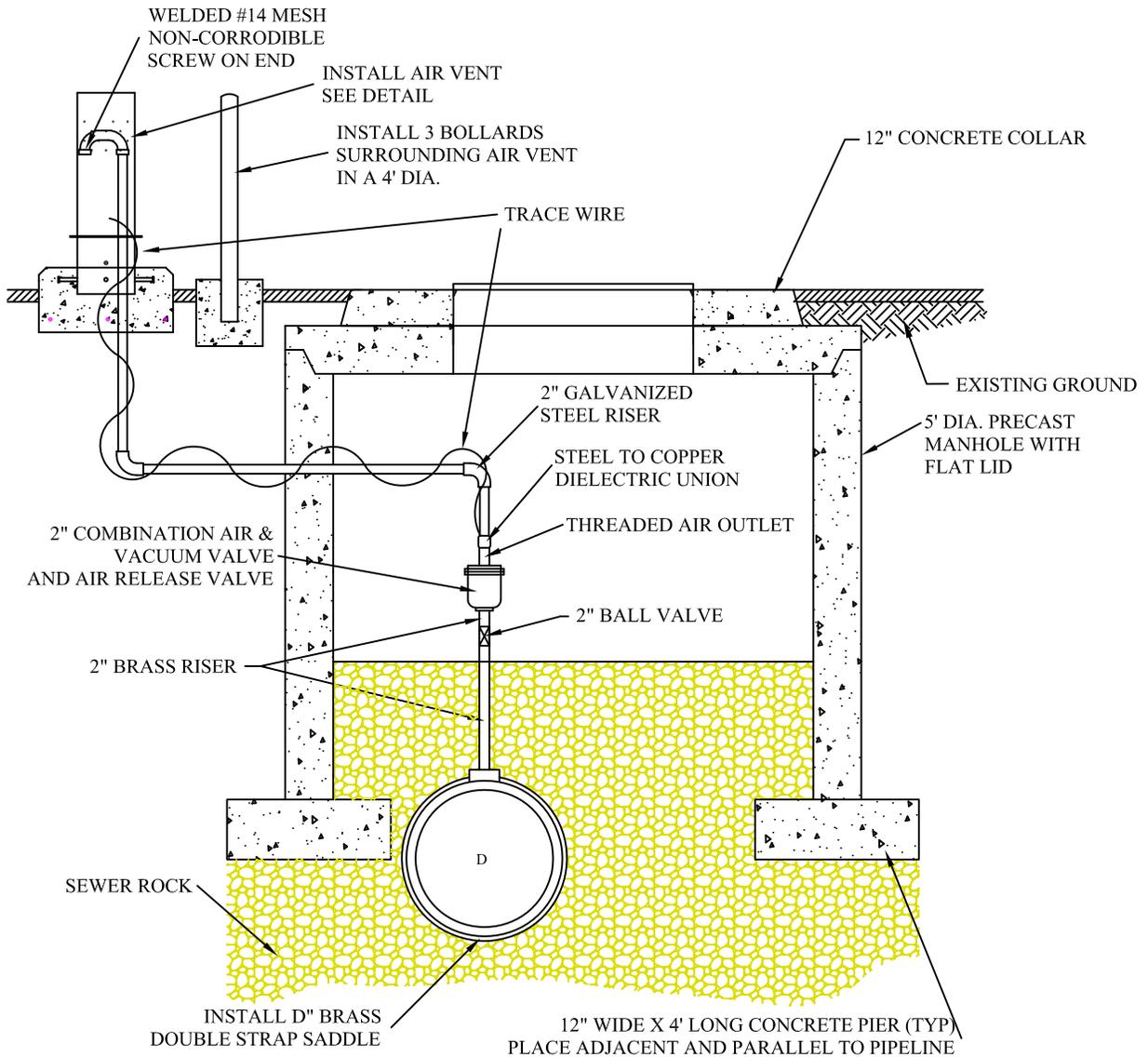


SOUTH JORDAN CITY

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DATE	REVISIONS	BY	

WATER METER LOCATION

STANDARD
DRAWING
3065



NOTES:

1. INSPECTION: PRIOR TO BACKFILLING AROUND THE ASSEMBLY, SECURE INSPECTION OF INSTALLATION BY ENGINEER.
2. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS.
3. CONCRETE: CLASS 4,000. APPLY A SEALING/CURING COMPOUND PER SPECIFICATIONS.
4. SMALL FITTINGS: PROVIDE BRASS FITTINGS AND NIPPLES IF NOT SPECIFIED OTHERWISE. DO NOT USE GALVANIZED MATERIALS BELOW DIELECTRIC UNION.

PREPARED BY: _____

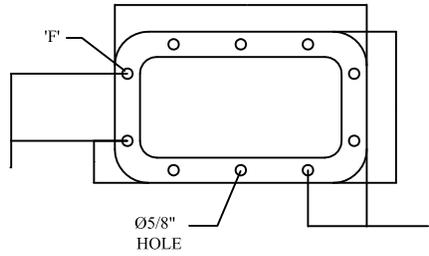


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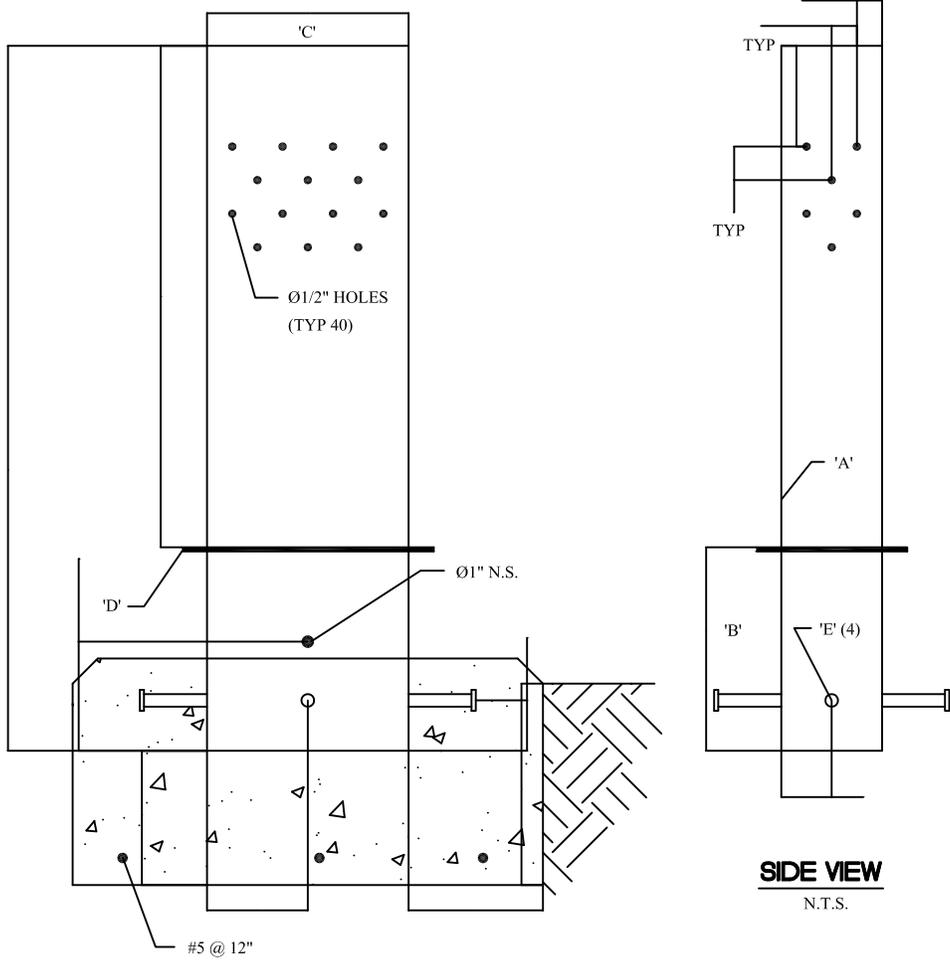
COMBINATION AIR VACUUM VALVE ASSEMBLY

STANDARD DRAWING
3070



PARTS LIST		
ITEM	QTY	DESCRIPTION
A	1	TS 12" x 6" x 1/4" x 2'-6"
B	1	TS 12" x 6" x 1/4" x 12"
C	1	1/4" PL - 6" x 1'-0"
D	2	1/4" PL - 9" x 1'-3"
E	4	Ø3/4" x 4" H.S.A.
F	10	Ø1/2" x 3" BREAKAWAY BOLTS

FLANGE DETAIL
ITEMS REMOVED FOR CLARITY, N.T.S.



SIDE VIEW
N.T.S.

NOTES:

1. OPEN TO AIR-PLACE A NO. 14 MESH NON-CORRODIBLE SCREEN OVER THE OPEN END OF P.V.C. PIPE. ATTACH W/S.S. HOSE CLAMP.
2. HOT DIPPED GALVANIZED STEEL STAND PIPE FOR AIR VENT.
3. 1 1/2" MIN. CHAMFER ALL AROUND CONCRETE BASE.

PREPARED BY: _____



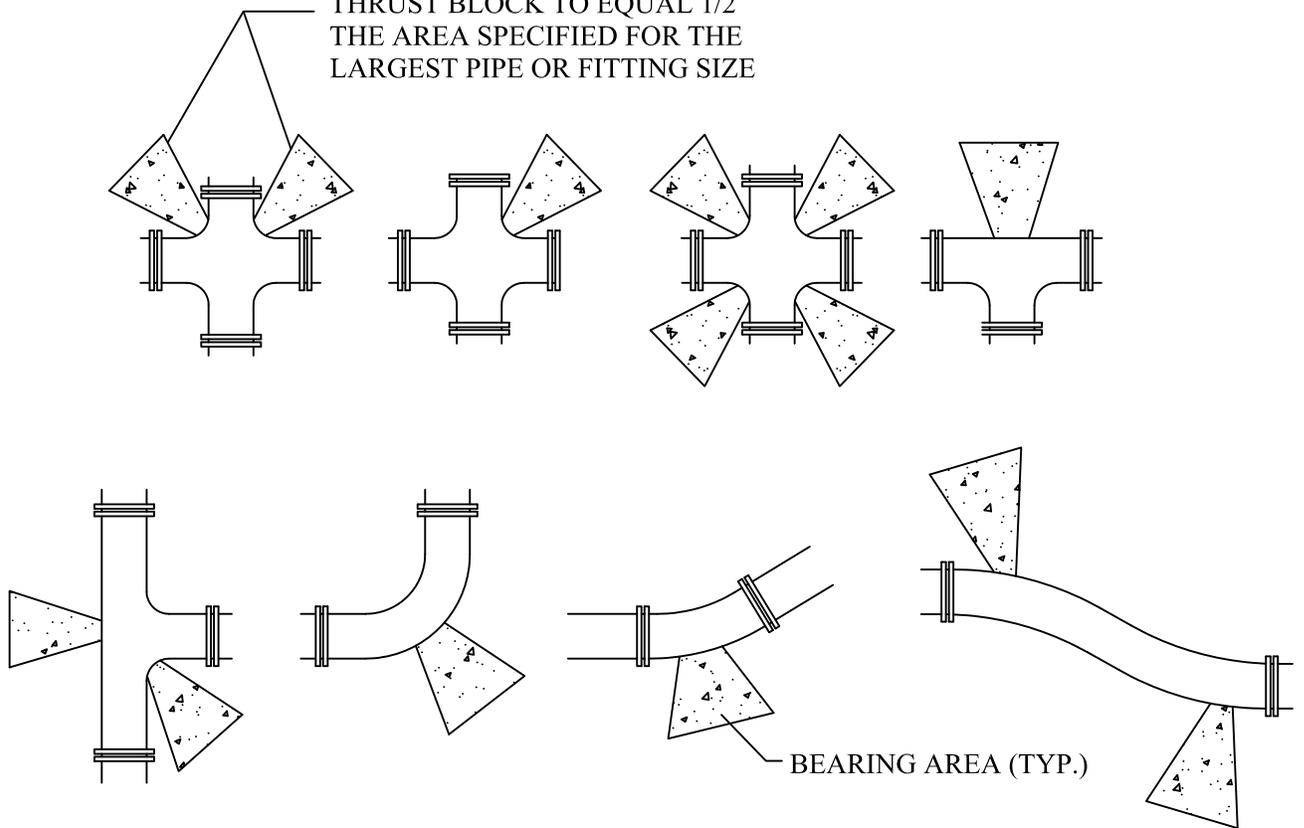
SOUTH JORDAN CITY

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AIR VENT DETAIL

STANDARD
DRAWING
3075

THE AREA OF BEARING PER THRUST BLOCK TO EQUAL 1/2 THE AREA SPECIFIED FOR THE LARGEST PIPE OR FITTING SIZE



NOTES:

1. INSPECTION: PRIOR TO BACKFILLING AROUND THRUST BLOCK, SECURE INSPECTIONS OF INSTALLATION BY ENGINEER.
2. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS.
3. CONCRETE: CLASS 2,000 MINIMUM. POUR CONCRETE AGAINST UNDISTURBED SOIL.
4. PIPE JOINTS: DO NOT COVER WITH CONCRETE. LEAVE COMPLETELY ACCESSIBLE.
5. GREASE: APPLY POLY-FM GREASE TO ALL BURIED METAL SURFACES. WRAP WITH 8 MIL THICK POLYETHYLENE SHEET AND TAPE WRAP.
6. SPECIAL CONSTRUCTION REQUIREMENTS:
 - A. THRUST DESIGN FOR PIPE SIZES OR CONFIGURATIONS NOT SHOWN REQUIRE SPECIAL DESIGN.
 - B. BEARING AREAS, VOLUMES, AND SPECIAL THRUST BLOCKING DETAILS SHOWN ON DRAWINGS TAKE PRECEDENCE OVER THIS PLAN.
 - C. REINFORCING STEEL BARS TO BE EPOXY COATED AT LEAST 15 MILS THICK. MINIMUM STRESS YIELD STRENGTH OF TIE DOWN BARS IS 70,000 PSI.
 - D. LOCKING RESTRAINT DEVICES MAY BE USED IN CONJUNCTION WITH CONCRETE THRUST BLOCKING (AT OPTION OF ENGINEER).
 - E. RESTRAINT SIZING IS BASED UPON A MAXIMUM OPERATING PRESSURE OF 150 PSI AND A TEST PRESSURE OF 200 PSI, AND A MINIMUM SOIL BEARING STRESS OF 2,000 PSF. OPERATING PRESSURES IN EXCESS OF 150 PSI OR SOILS WITH LESS THAN 2,000 POUND BEARING STRENGTH WILL REQUIRE SPECIAL DESIGN.
 - F. CONCRETE MUST BE ALLOWED TO CURE IN THRUST RESTRAINTS FOR 5 DAYS PRIOR TO PRESSURIZING WATER LINES OR HAVE ADDITIONAL APPROVED THRUST RESTRAINTS INSTALLED PRIOR TO PRESSURIZING THE WATER LINE.
7. MEGALUGS REQUIRED ON ALL FITTINGS

MINIMUM BEARING AREA IN SQ. FT.					
SIZE OF PIPE	TEES, VALVES DEAD ENDS	90° BENDS	45° BENDS	22 1/2° BENDS	11 1/4° BENDS
4"	2	3	2	2	2
6"	4	5.5	3	1.5	1
8"	6.5	9.5	5	2.75	1.5
12"	14	20	11	5.5	3
14"	19	26.5	14.5	7.5	4
16"	24	34	18.5	9.5	6
20"	27	52	28.5	14.5	16
24"	53	74	41	21	53
30"	81	114	62	32	16

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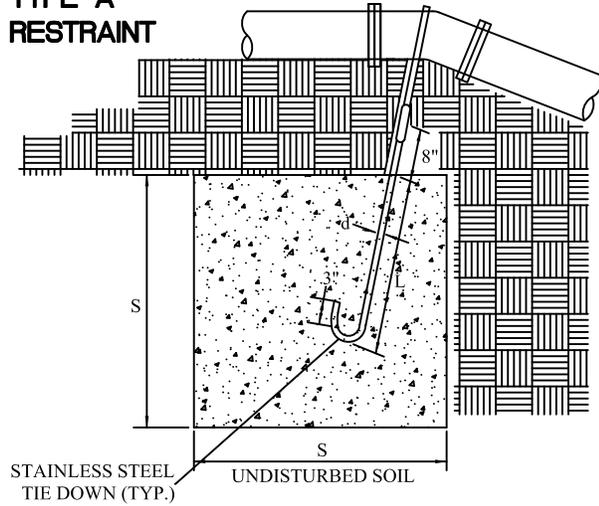
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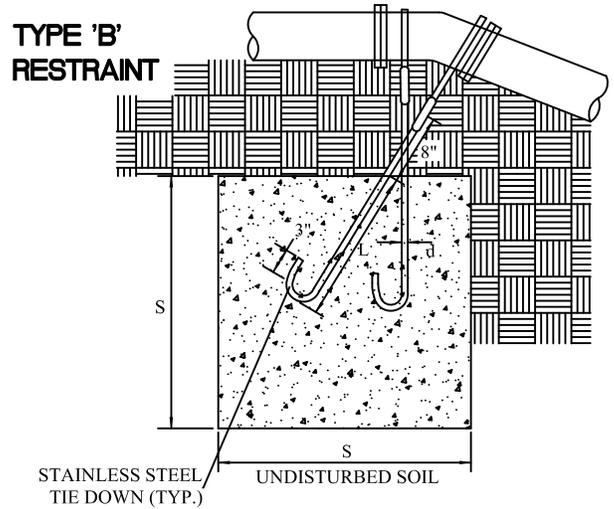
DIRECT BEARING THRUST BLOCKS

STANDARD DRAWING
3080

TYPE 'A' RESTRAINT



TYPE 'B' RESTRAINT



TYPE 'A' RESTRAINT

FOR 11 1/4°-22 1/2° VERTICAL BENDS

TABLE OF DIMENSIONS					
	VB		S	d	L
PIPE SIZE NOMIN. DIAMETER - INCH	VERTICAL BEND DEGREES	NO. OF CU. FT. OF CONC. BLOCKING	SIDE OF CUBE FEET	DIAMETER OF SHACK OR REBAR RODS - INCH	DEPTH OF RODS IN CONCRETE FT.
4"	11 1/4°	8	2.0	5/8"	1.5
	22 1/2°	15.6	2.5	5/8"	2.0
6"	11 1/4°	15.6	2.5	5/8"	2.0
	22 1/2°	34.3	3.25	5/8"	2.0
8"	11 1/4°	27	3.0	5/8"	2.0
	22 1/2°	64	4.0	5/8"	2.0
12"	11 1/4°	64	4.0	3/4"	2.0
	22 1/2°	125	5.0	3/4"	3.0
16"	11 1/4°	107	4.25	7/8"	3.0
	22 1/2°	216	6.0	7/8"	4.0
20"	11 1/4°	138	5.17	1"	3.5
	22 1/2°	334	6.94	1"	4.0
24"	11 1/4°	240	6.22	1"	4.0
	22 1/2°	476	7.81	1"	4.0
30"	11 1/4°	369	7.17	1"	4.0
	22 1/2°	733	9.02	1"	4.0

TYPE 'B' RESTRAINT

FOR 45° VERTICAL BENDS

TABLE OF DIMENSIONS					
	VB		S	d	L
PIPE SIZE NOMIN. DIAMETER - INCH	VERTICAL BEND DEGREES	NO. OF CU. Y. OF CONC. BLOCKING	SIDE OF CUBE FEET	DIAMETER OF SHACK OR REBAR RODS - INCH	DEPTH OF RODS IN CONCRETE FT.
4"	45°	1	3.0	5/8"	2.0
				5/8"	
6"	45°	2.37	4.0	5/8"	2.5
				5/8"	
8"	45°	3.97	4.75	5/8"	2.0
				5/8"	
12"	45°	9.04	6.25	5/8"	4.0
				5/8"	
16"	45°	17.24	7.75	3/4"	4.0
				3/4"	
20"	45°	26.52	8.95	3/4"	4.0
				3/4"	
24"	45°	37.82	10.07	3/4"	4.0
				3/4"	
30"	45°	58.26	11.63	3/4"	4.0
				3/4"	

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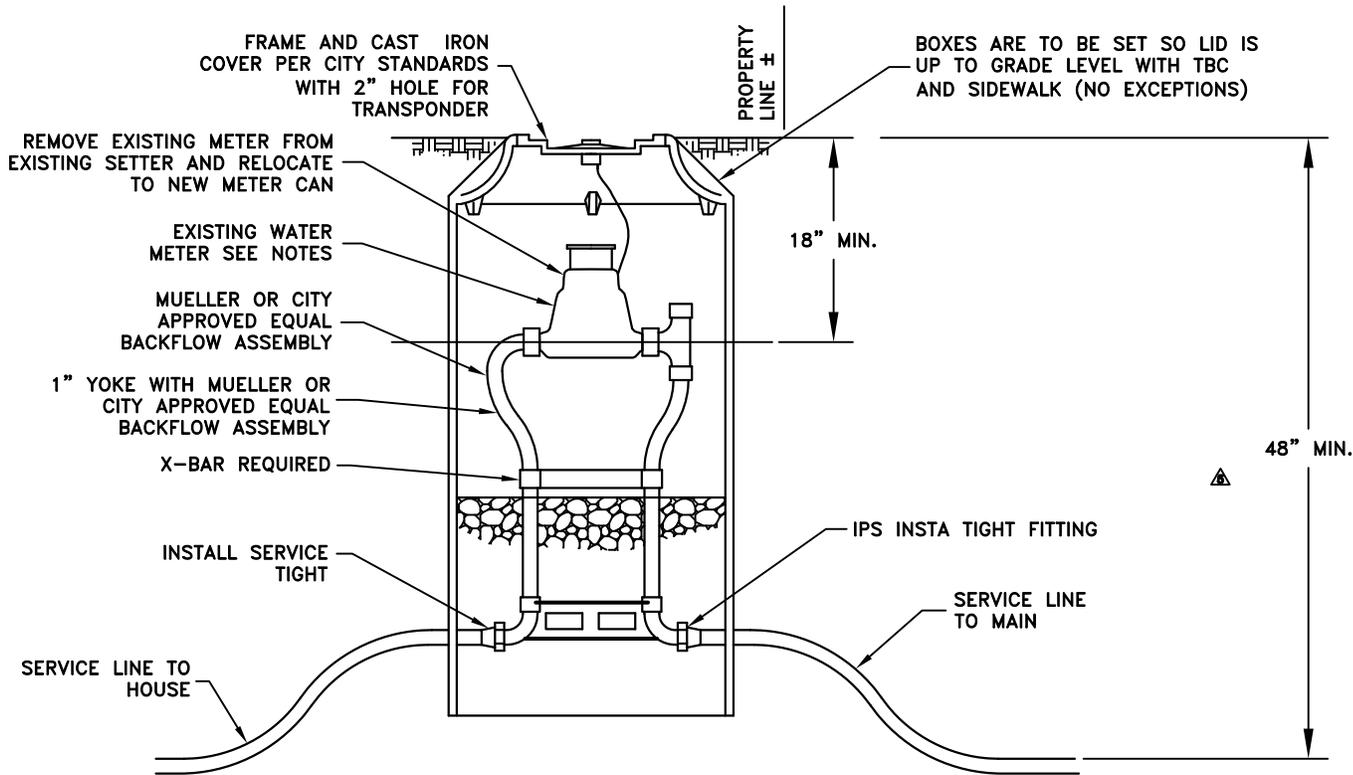


SOUTH JORDAN CITY

TIE DOWN THRUST RESTRAINTS

STANDARD DRAWING
3085

			DRAWN:
			DATE:
DATE	REVISIONS	BY	



METER SERVICE
N.T.S.

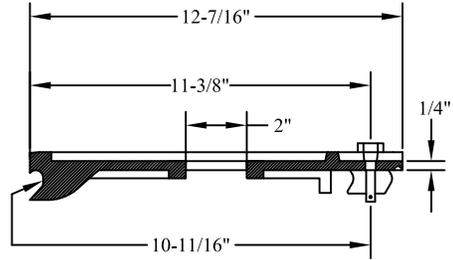
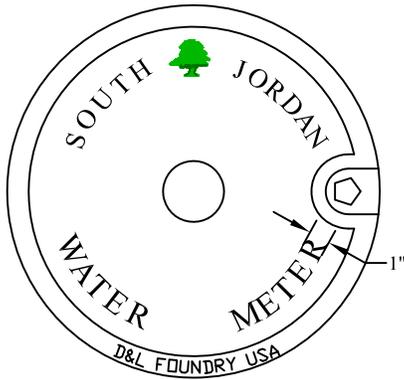
NOTES:

1. INSPECTION: PRIOR TO BACKFILLING AROUND THE METER BOX, SECURE INSPECTION OF INSTALLATION BY ENGINEER.
2. BACKFILLING: INSTALL ALL BACKFILL MATERIAL PER APWA SECTION 02320 IN LIFTS NOT EXCEEDING 6 INCHES AFTER COMPACTION. COMPACT EACH LIFT TO A MINIMUM RELATIVE DENSITY OF 96 PERCENT.
3. PLACEMENT:
 - A. DO NOT INSTALL METERS IN HARD SURFACE 2 FEET MINIMUM FROM LID.
 - B. IN NEW CONSTRUCTION, INSTALL METER AT CENTER OF LOT OF PER SOUTH JORDAN CITY REQUIREMENTS.
 - C. ALL METERS ARE TO BE INSTALLED IN THE PARK STRIP OR WITHIN 4 FEET OF THE PROPERTY LINE (STREET SIDE) AND OUTSIDE OF HARD SURFACE.

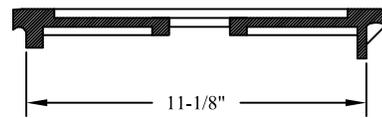
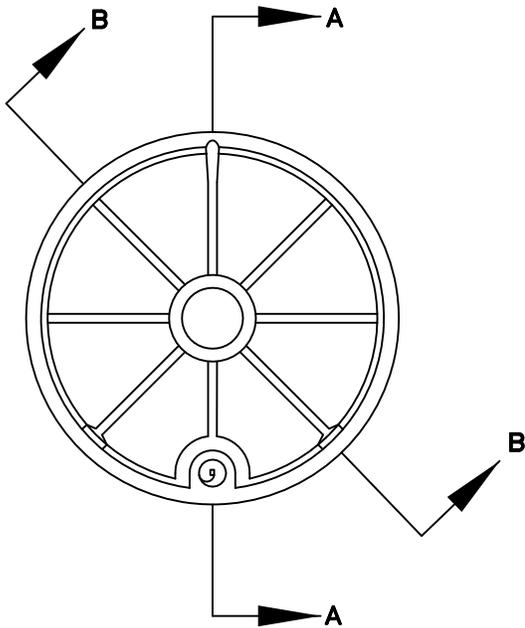
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SOUTH JORDAN CITY			
		DRAWN:	METER SERVICE
		DATE	
		BY	
			STANDARD DRAWING 3090



SECTION A-A



SECTION B-B

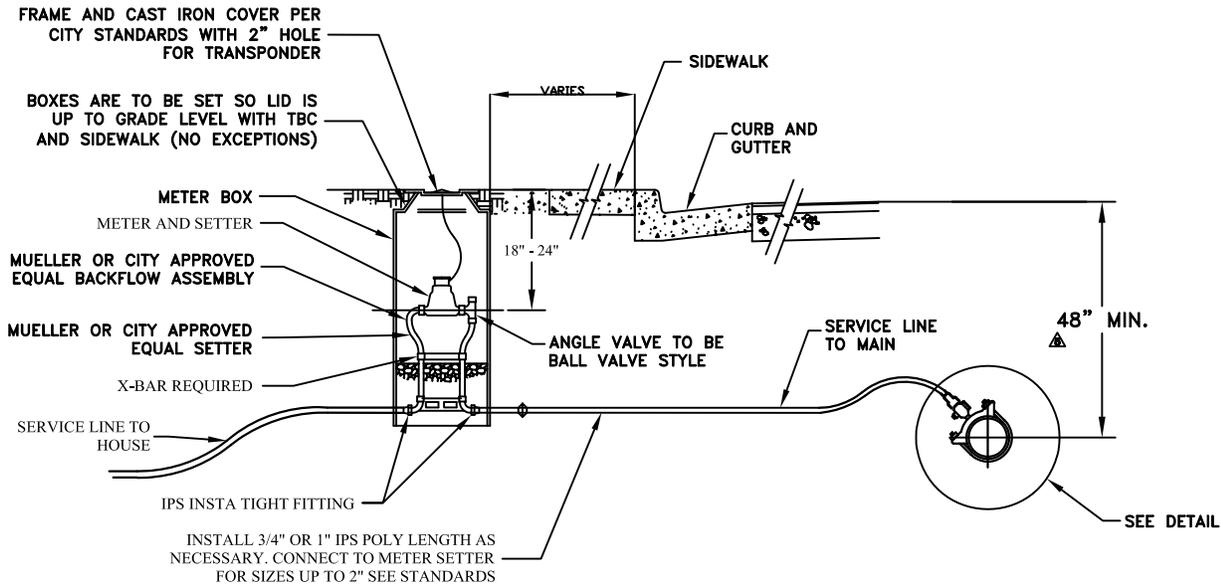
D&L FOUNDRY & SUPPLY
 MODEL #L-2240-14
 13 LBS.

WATER METER COVER
 N.T.S.

PREPARED BY: _____



SOUTH JORDAN CITY			
		DRAWN:	METER SERVICE
		DATE	
		BY	
			STANDARD DRAWING 3091



WATER SERVICE ADJUSTMENTS

NOTES:

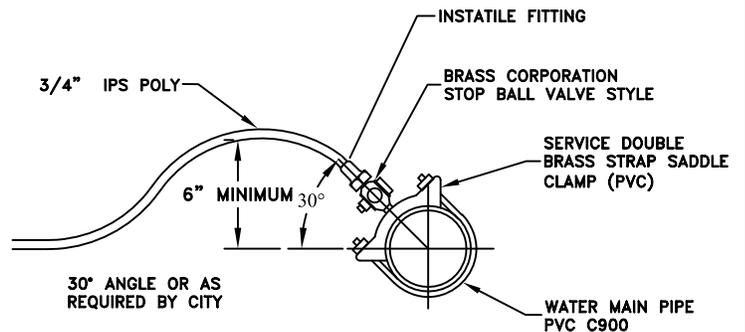
1. FITTINGS - PROVIDE BRASS FITTINGS AND NIPPLES ON ALL SERVICE LINE CONNECTIONS. DO NOT USE GALVANIZED MATERIALS
2. INSPECTION: PRIOR TO BACKFILLING AROUND THE METER BOX, SECURE INSPECTION OF INSTALLATION BY ENGINEER.
3. BACKFILLING: INSTALL ALL BACKFILL MATERIAL PER APWA SECTION 02320 IN LIFTS NOT EXCEEDING 6 INCHES AFTER COMPACTION. COMPACT EACH LIFT TO A MINIMUM RELATIVE DENSITY OF 96 PERCENT.
4. PLACEMENT:
 - A. DO NOT INSTALL METERS IN HARD SURFACE 2 FEET MINIMUM FROM LID.
 - B. IN NEW CONSTRUCTION, INSTALL METER AT CENTER OF LOT OF PER SOUTH JORDAN CITY REQUIREMENTS.
 - C. ALL METERS ARE TO BE INSTALLED IN THE PARK STRIP OR WITHIN 4 FEET OF THE PROPERTY LINE (STREET SIDE) AND OUTSIDE OF HARD SURFACE.

TYPICAL CULINARY WATER SERVICE CONNECTION

N.T.S.

NOTES:

1. INSPECTION - PRIOR TO BACKFILLING AROUND TAPS, SECURE INSPECTION OF INSTALLATION BY SOUTH JORDAN WATER DEPARTMENT
 2. BACKFILL - INSTALL AND COMPACT ALL BACKFILL MATERIAL PER CITY STANDARD
 3. TAPPING - PLACE TAPS A MINIMUM OF 36" APART. USE A TAPPING TOOL WHICH IS SIZED CORRESPONDING TO THE SIZE OF THE SERVICE LINE TO BE INSTALLED. NO TAPS WITHIN 36" OF END OF ANY PIPE.
- TAPE - TEFLON TAPE OR PIPE DOPE IS REQUIRED ON ALL TAPS



SERVICE TAPS

N.T.S.

PREPARED BY: _____

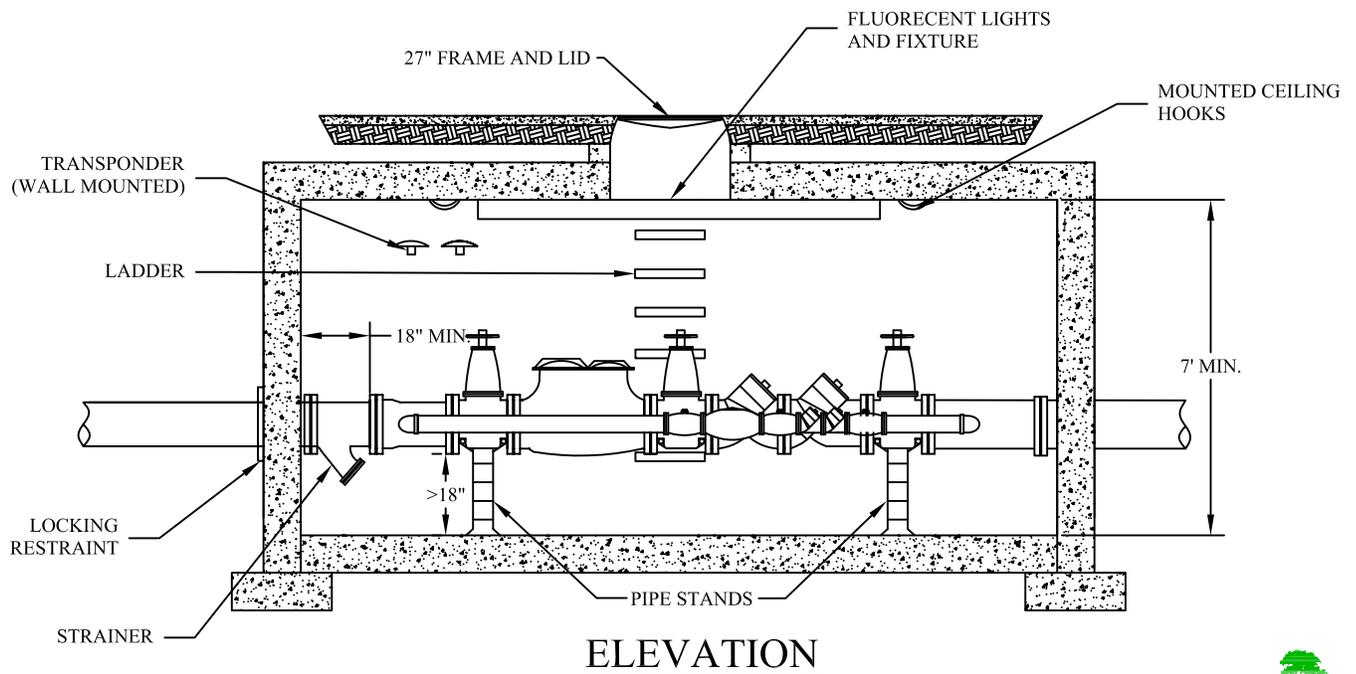
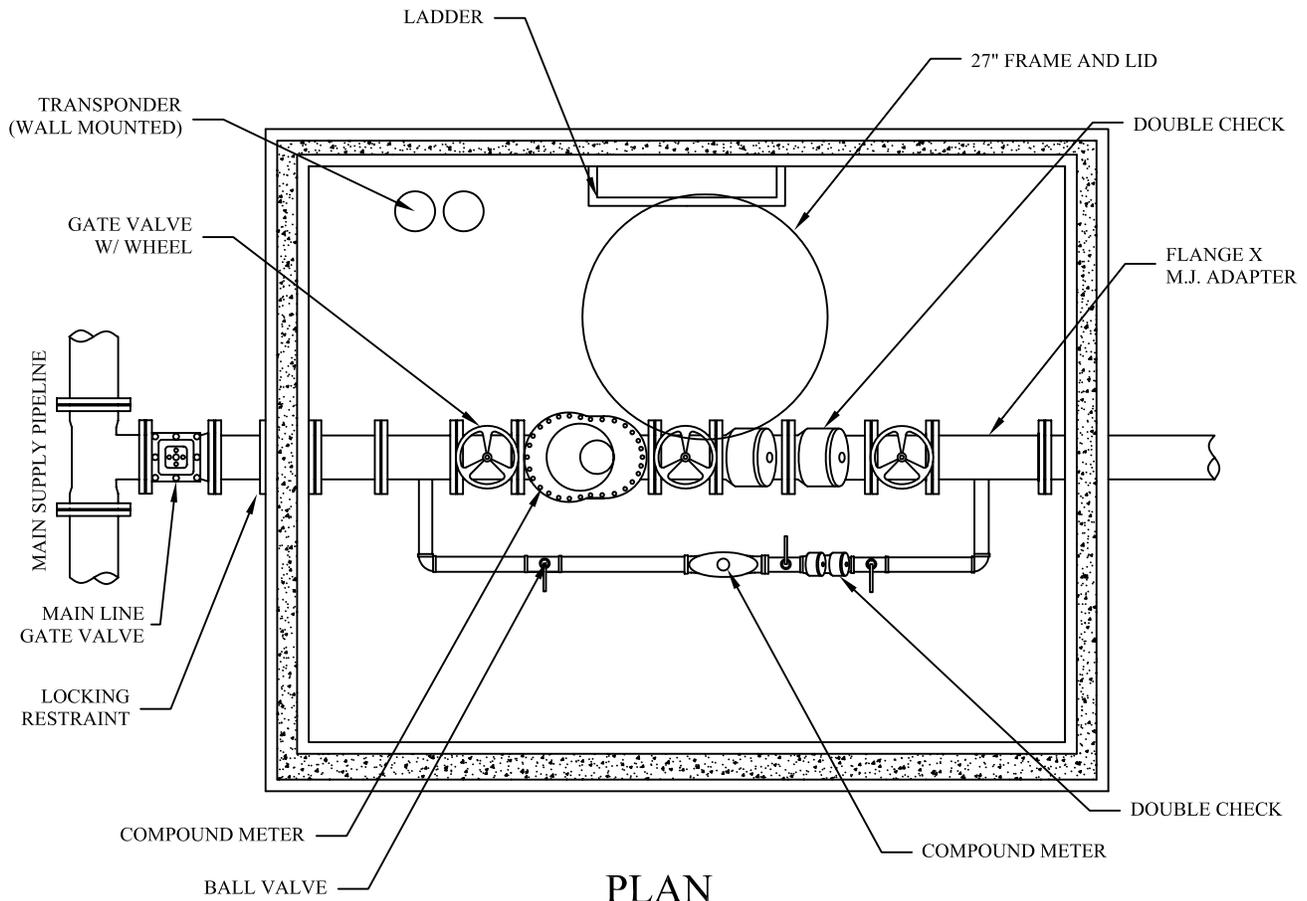


SOUTH JORDAN CITY

			DRAWN:
			DATE:
DATE	REVISIONS	BY	

**3/4" - 2" WATER METER PLAN
SERVICE INSTALLATION**

STANDARD
DRAWING
3095



PREPARED BY: _____



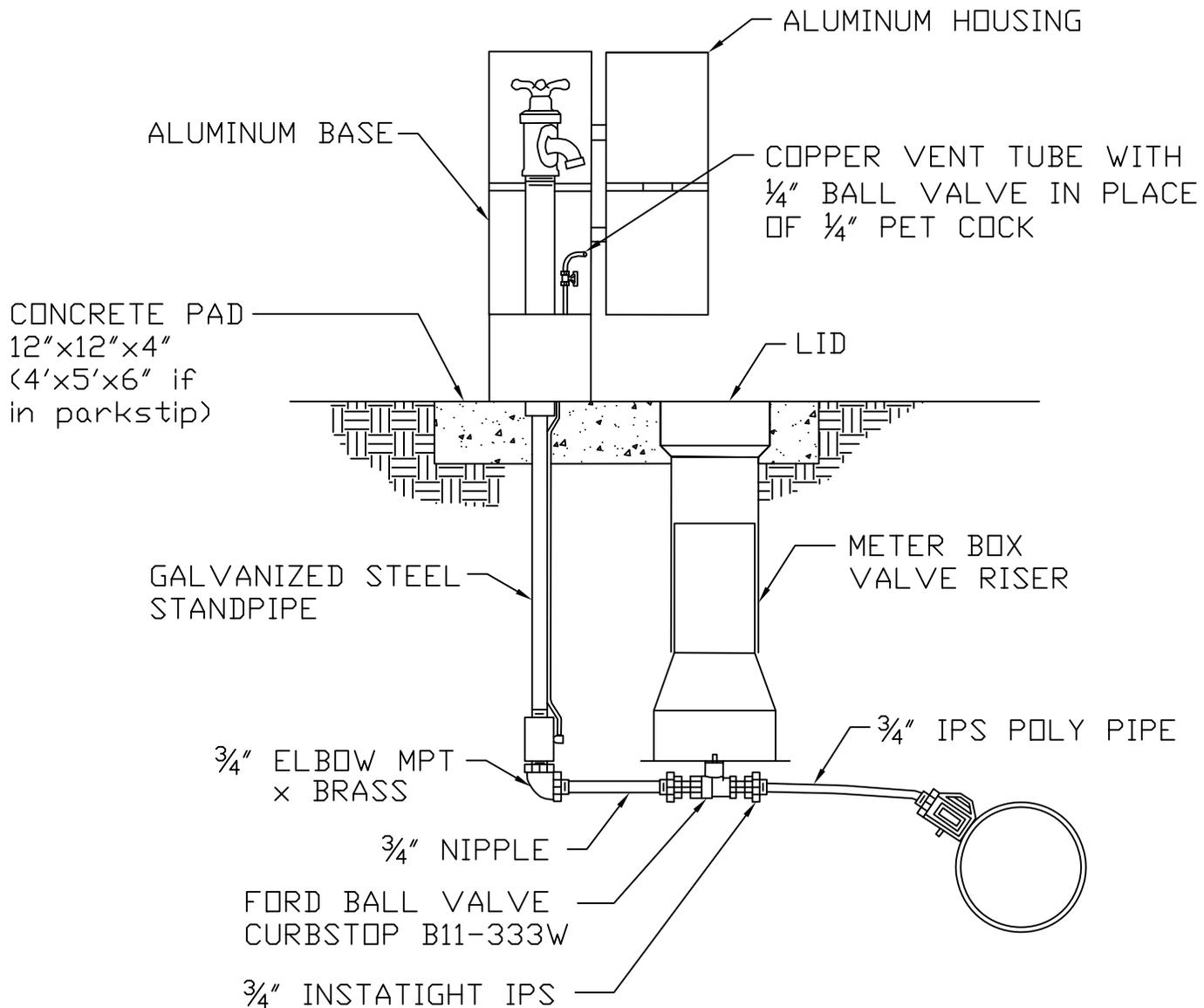
SOUTH JORDAN CITY

			DRAWN: AP
			DATE 10/08
DATE	REVISIONS	BY	

3"- 8" WATER VAULT DETAIL

STANDARD
 DRAWING
3100

MODEL: ECLIPSE 88



PREPARED BY: _____

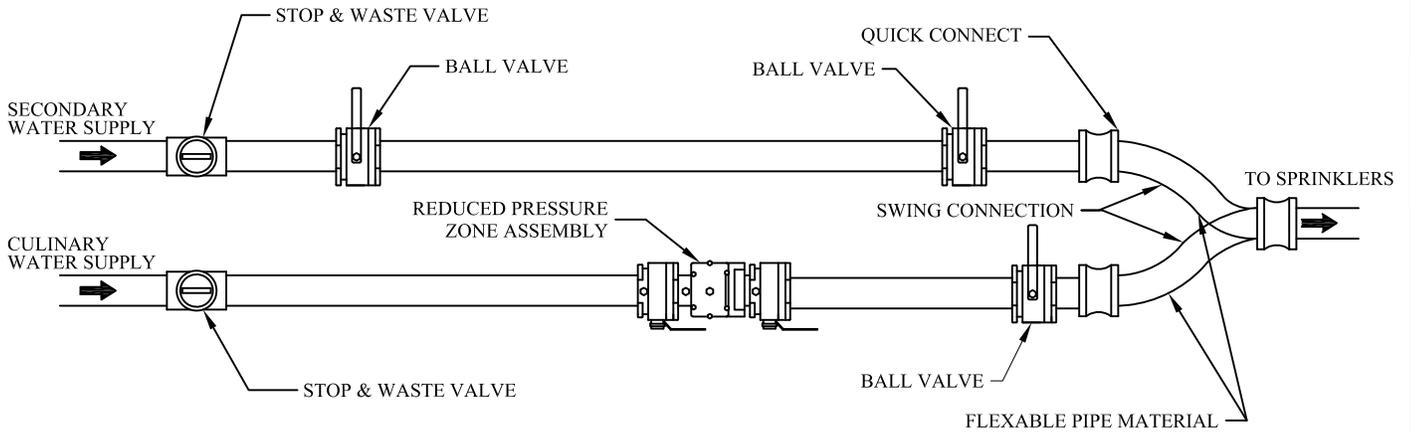


SOUTH JORDAN CITY

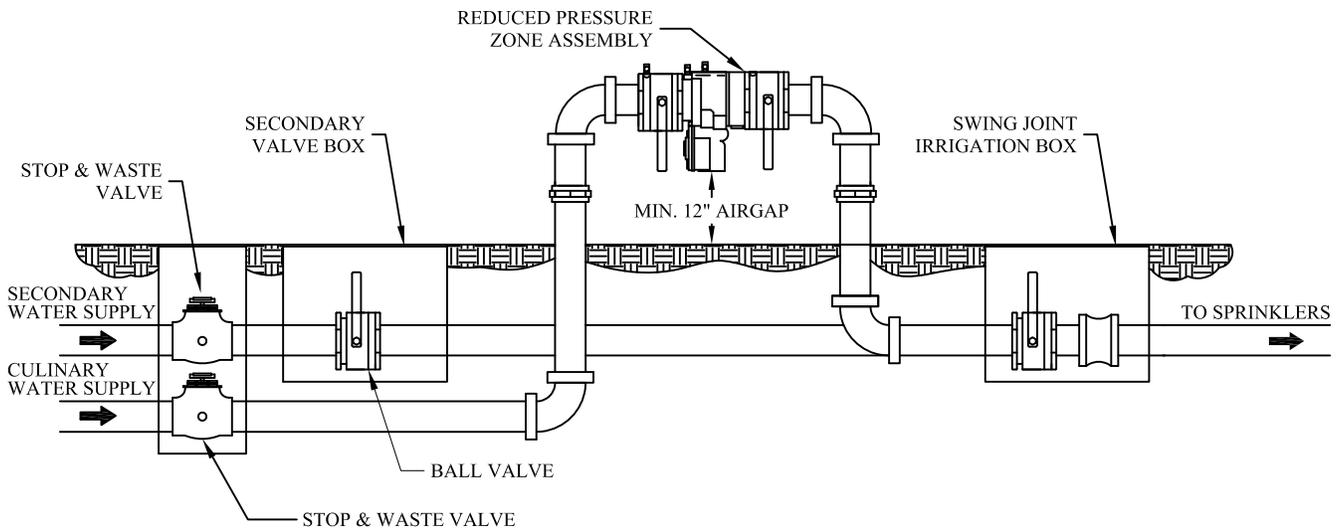
			DRAWN: KS
			DATE 1/12
DATE	REVISIONS	BY	

**SAMPLING TAP
FOR RESIDENTIAL SUBDIVISIONS**

STANDARD
DRAWING
3110



PLAN VIEW
NOT TO SCALE



PROFILE VIEW
NOT TO SCALE

NOTES:

1. THE SWING CONNECTION IS INSTALLED SO THAT EITHER THE SECONDARY IRRIGATION WATER OR THE CULINARY WATER IS CONNECTED AND FEEDING THE SPRINKLER SYSTEM AT THE ONE TIME, NEVER BOTH.
2. THE REDUCED PRESSURE ZONE ASSEMBLY MUST BE LOCATED AT A MINIMUM OF 12" FROM WALL, FENCE OR OTHER OBSTACLE.
3. THE REDUCED PRESSURE ZONE ASSEMBLY MUST BE LOCATED AT A MINIMUM OF 12" ABOVE GRADE (NOT ALLOWED IN A PIT BELOW GRADE).
4. THE REDUCED PRESSURE ZONE ASSEMBLY MUST BE TESTED BY A CERTIFIED BACKFLOW TECHNICIAN ON AN ANNUAL BASIS.



SOUTH JORDAN CITY

			DRAWN: KS
			DATE: 2/06
DATE	REVISIONS	BY	

**BACKFLOW PREVENTION DEVICE
IRRIGATION CONNECTION**

STANDARD
DRAWING
2001

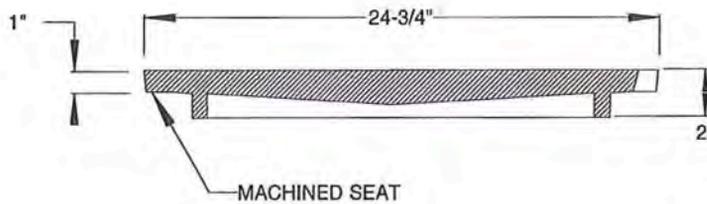
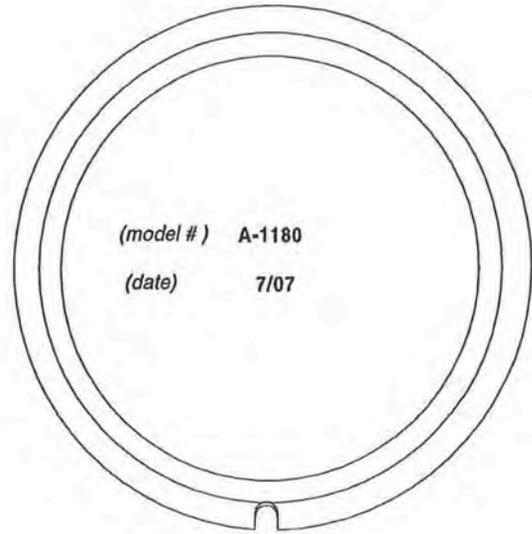
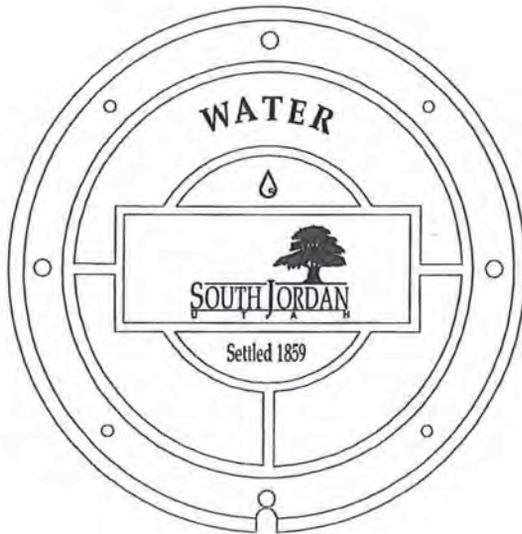
A-1180



SOUTH JORDAN

Water Manhole Cover

(Platen-bottom cover)



COVER EXCEEDS A COMPRESSION TEST OF UP TO 50,000 LBS.

CAST IRON conforms to
ASTM A-48-93 Class 35B
Meets H-20 Wheel Loading

D&L model No. A-1180

Made in Moses Lake, WA, USA

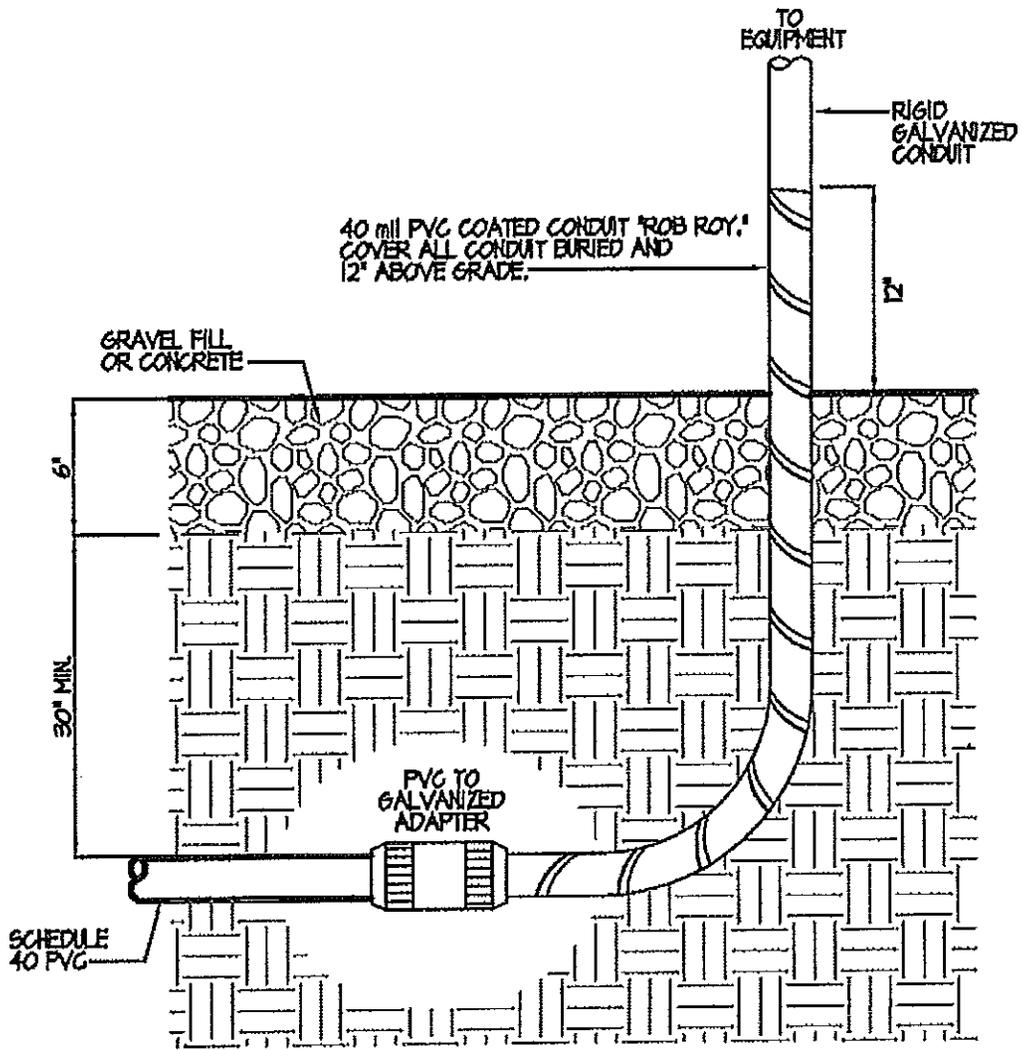
D&L Foundry & Supply

CA Sales: (707) 557-4525 Fax: (707) 557-4655
UT Sales: (801) 785-5015 Fax: (801) 785-0835
WA Sales: (509) 765-7952 Fax: (509) 765-8124

Designation: **A-1180**

Date: **July 2007**

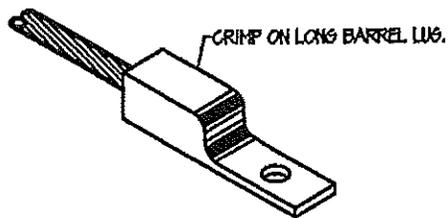
Prepared by: *Jesse Walter*
D&L Foundry & Supply Inc. (not to scale)



CONDUIT TERMINATION UNDER EQUIPMENT

SCALE: NONE

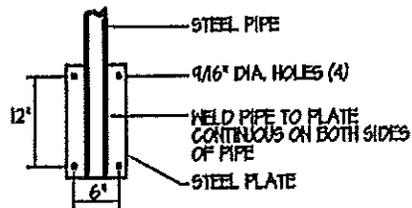
8
E-2



BONDING LUG

SCALE: NONE

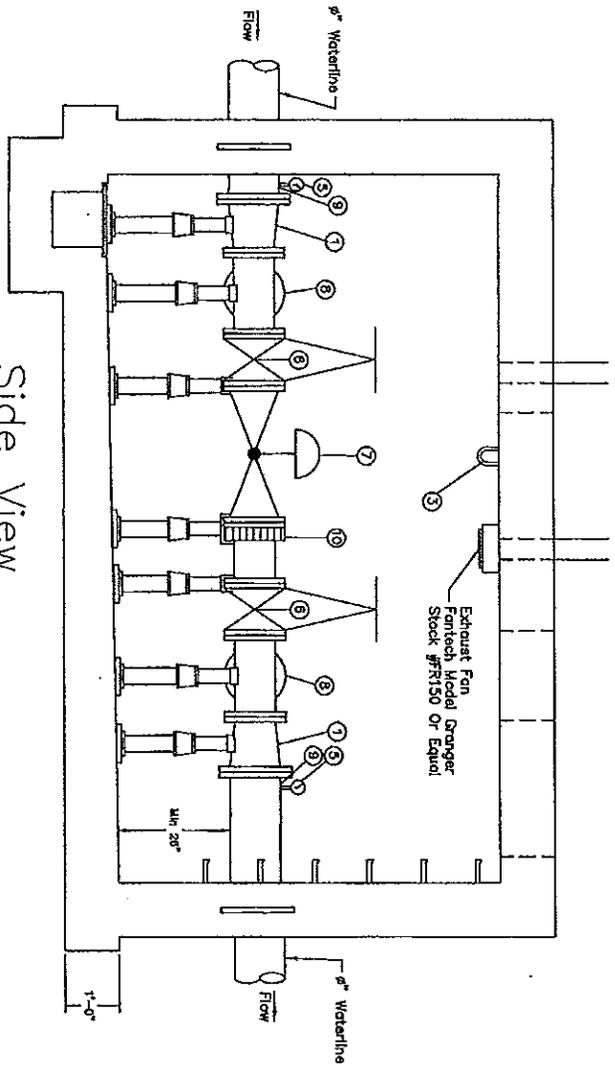
4
E-2



MAST ANCHOR DETAIL

SCALE: NONE

1
E-2

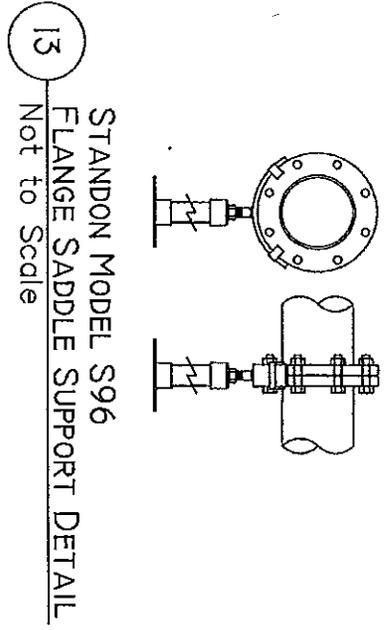
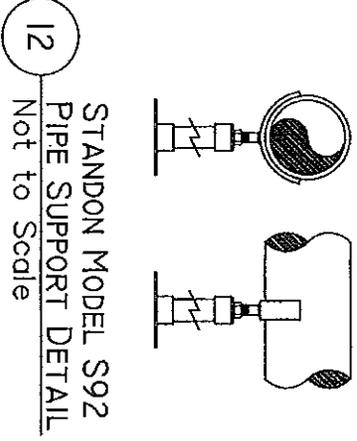


Side View
PRESSURE REDUCING VALVE INSTALLATION

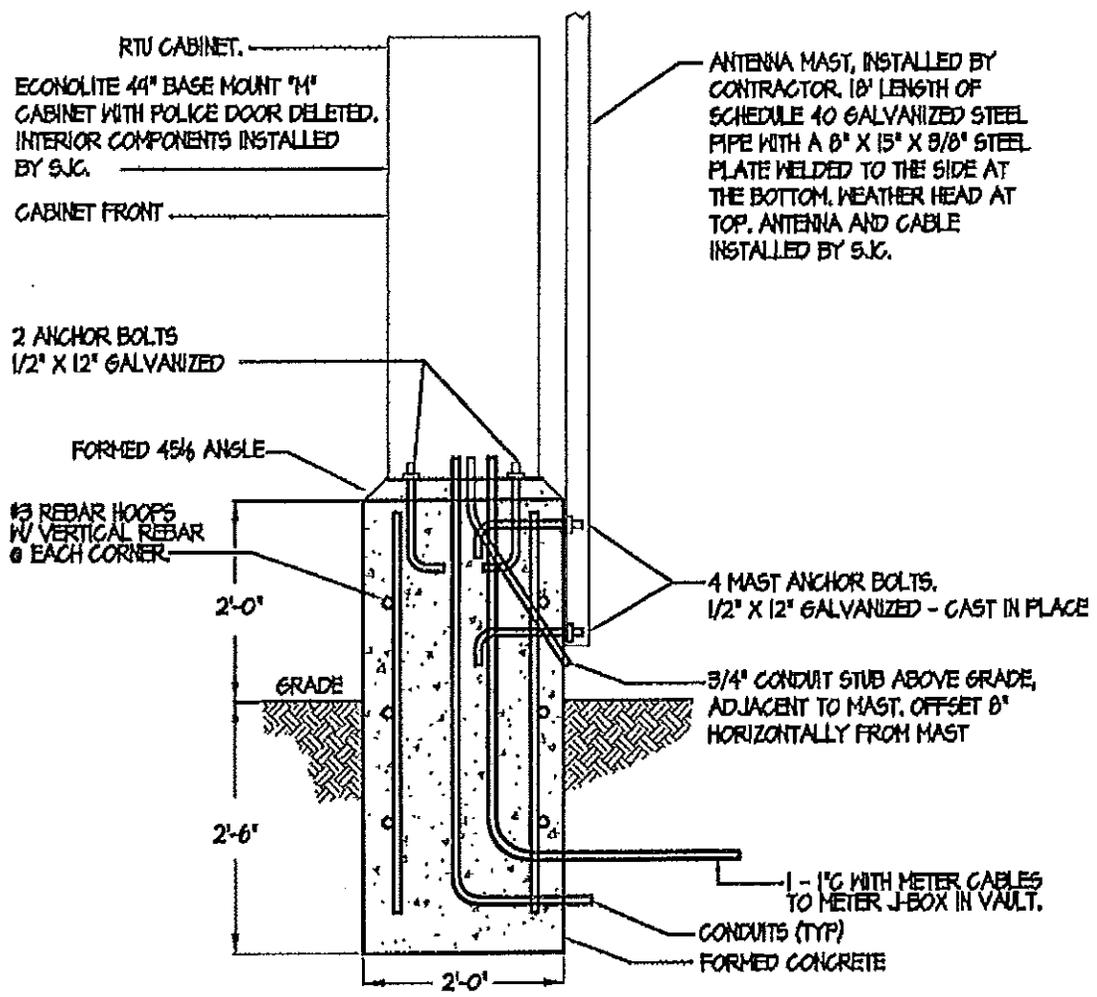
- ① 6" x 8" DI Reducer & Stands for PRV #15
- ③ Hook (2 typ.) One Over PRV (See Detail 3 on Sheet S-01)
- ④ 8" Epoxy Coated Steel Spool, fig x fig
- ⑤ 0-200 psi Liquid Filled Pressure Gage (see Detail 11)
- ⑥ 8" Gate Valve w/ handwheel & Stand, fig x fig
- ⑦ 8" Pressure Reducing Valves & Stands (See Notes)
- ⑧ 8" DI Tee & Stand, fig x fig x fig
- ⑨ 8" DI Pipe, fig x PE For PRV
- ⑩ Flange Adapter Coupling

NOTES:

- 1. Clay 90-01 Epoxy Coated With Valve Position Indicator X 101.
- 2. Place Standon Model S92 Pipe Saddle Supports or Approved Equal Under all Tees.
- 3. Place Standon Model S96 or S89 Flange Saddle Supports or Approved Equal Under all PRV's.
- 4. Place Standon Model S96 Flanged Saddle Supports or Approved Equal Under all Valves.
- 5. Pressure Gage Shall Be McDaniel or Approved Equal.
- 6. See Sheet S-01 for Location of Exhaust Fan and Lights.



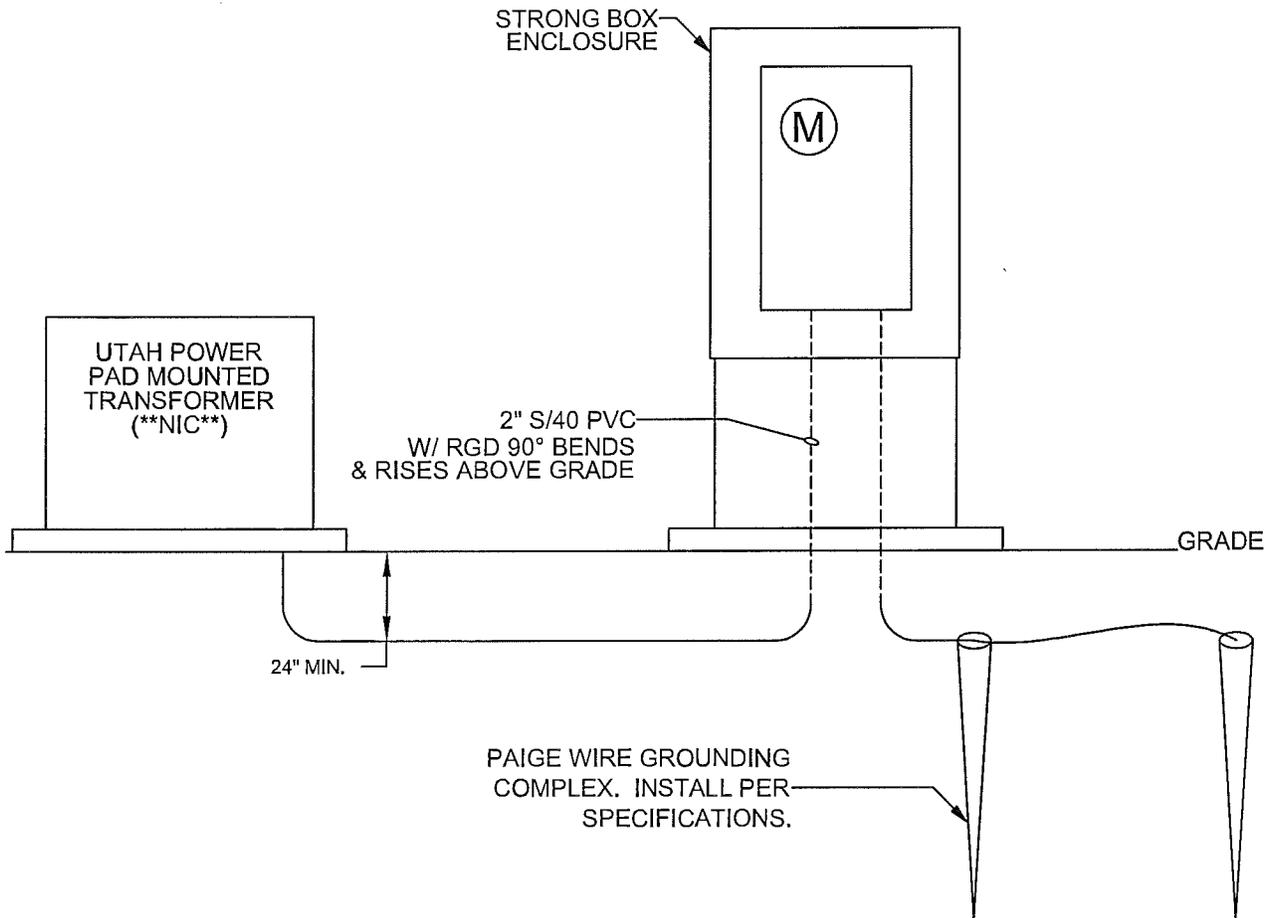
 SOUTH JORDAN CITY 1000 South Jordan Parkway, Suite 100 South Jordan, UT 84095		SOUTH JORDAN CITY PRV VAULT DETAILS	
SIZE	DWG. NO.	REV.	
0" OR SMALLER			
SCALE		SHEET	3/3



SJC RTU PEDESTAL ELEVATION

SCALE: NONE

LANDSCAPE AND IRRIGATION



IRRIGATION DETAIL IRR-01
 LINE DRAWING TRANSFORMER
 ENCLOSURE

version: 01, revision: 00, date: 8/2006

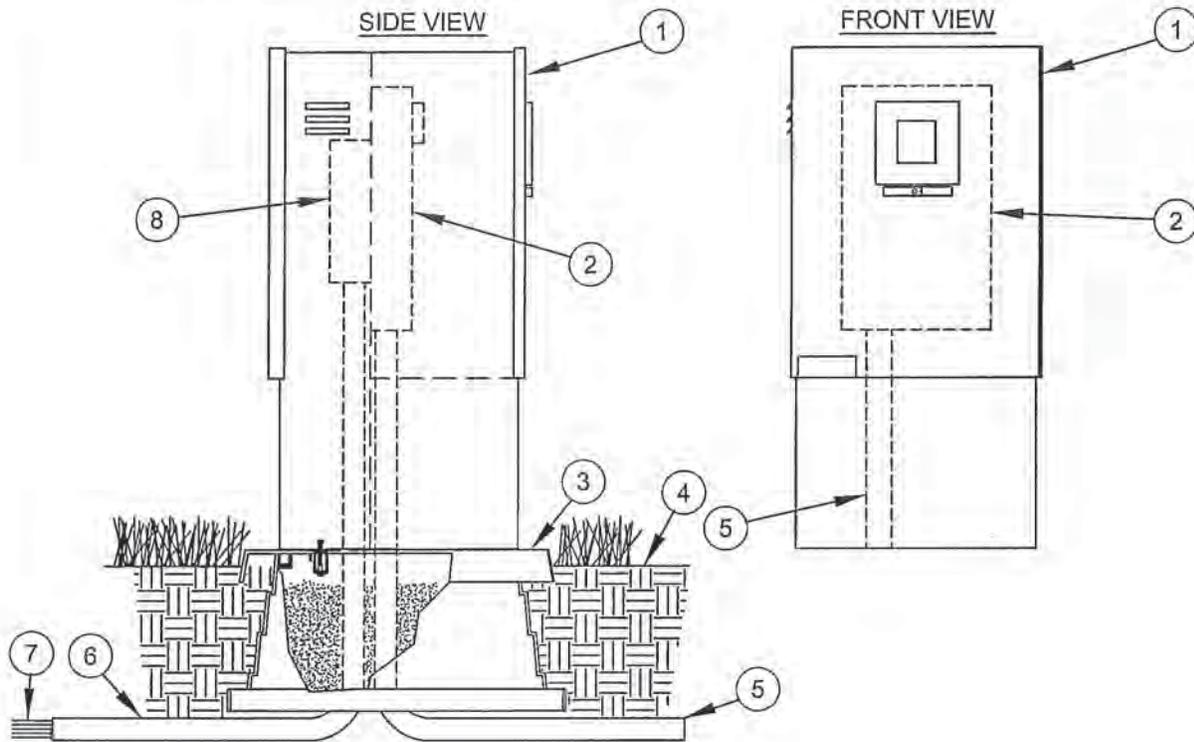


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LEGEND

- | | |
|--|---|
| <ul style="list-style-type: none"> 1. STRONG BOX BRAND METERED CONTROLLER ENCLOSURE, MODEL SB-24DSS/240V 2. METER/PANEL COMBINATION SQUARE D MODEL SC1624M 3. STRONG BOX BRAND QUICK PAD, MODEL QP-24 4. FINISH GRADE. | <ul style="list-style-type: none"> 5. CONDUIT FOR LINE FEED INTO METER/PANEL COMBO. EXTEND INTO UP&L TRANSFORMER 6. PVC LONG SWEEP ELL - USE ONE SWEEP ELL PER CONTROLLER. 7. DIRECT BURIAL CONTROL WIRES TO CONTROL VALVES. 8. AUTOMATIC CONTROLLER. |
|--|---|

**IRRIGATION DETAIL IRR-02
STRONG BOX COMBO METER
ENCLOSURE**

version: 01, revision: 00, date: 8/2006

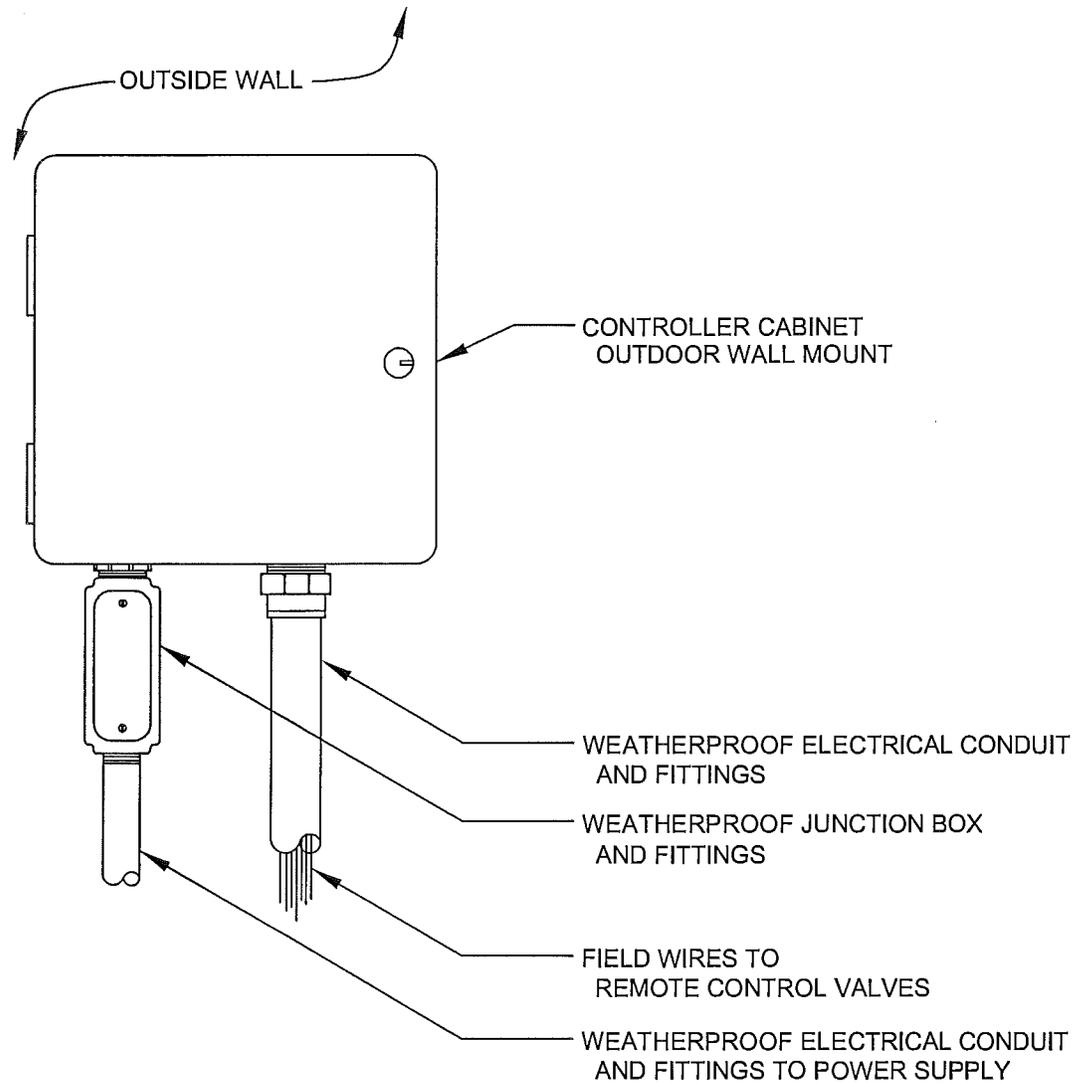


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****NOTE**** PVC SHALL NOT BE USED IN WIRING CONNECTIONS OR CONDUIT

IRRIGATION DETAIL IRR-03 LINE DRAWING TRANSFORMER ENCLOSURE

version: 01, revision: 00, date: 8/2006

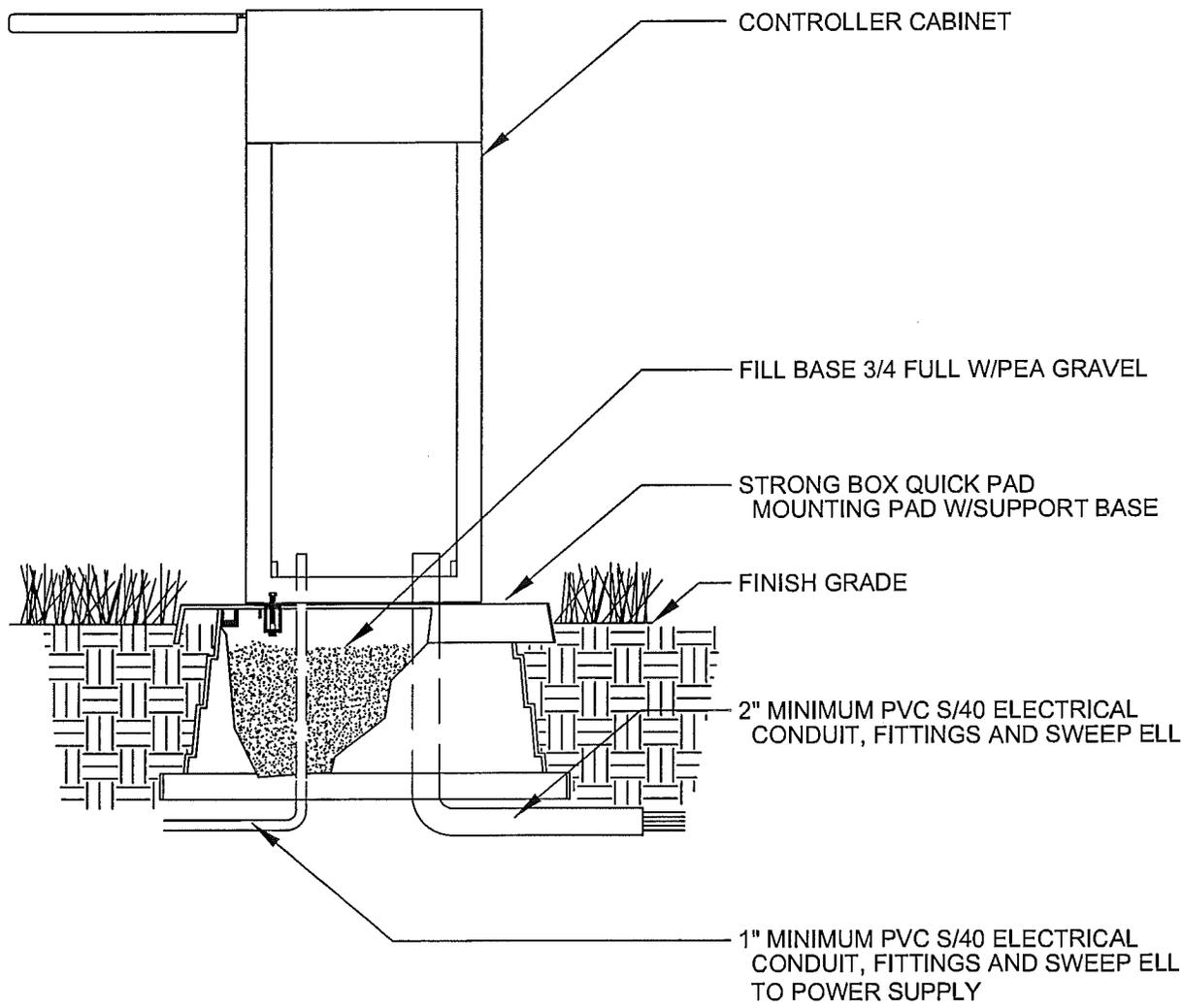


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NOTE: INSTALL PAIGE WIRE GROUNDING GRID PER MFG. REQUIREMENTS

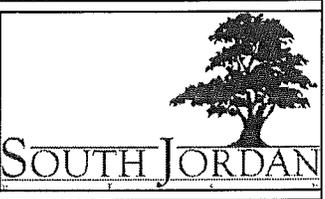
IRRIGATION DETAIL IRR-04 PEDESTAL MOUNT CONTROLLER

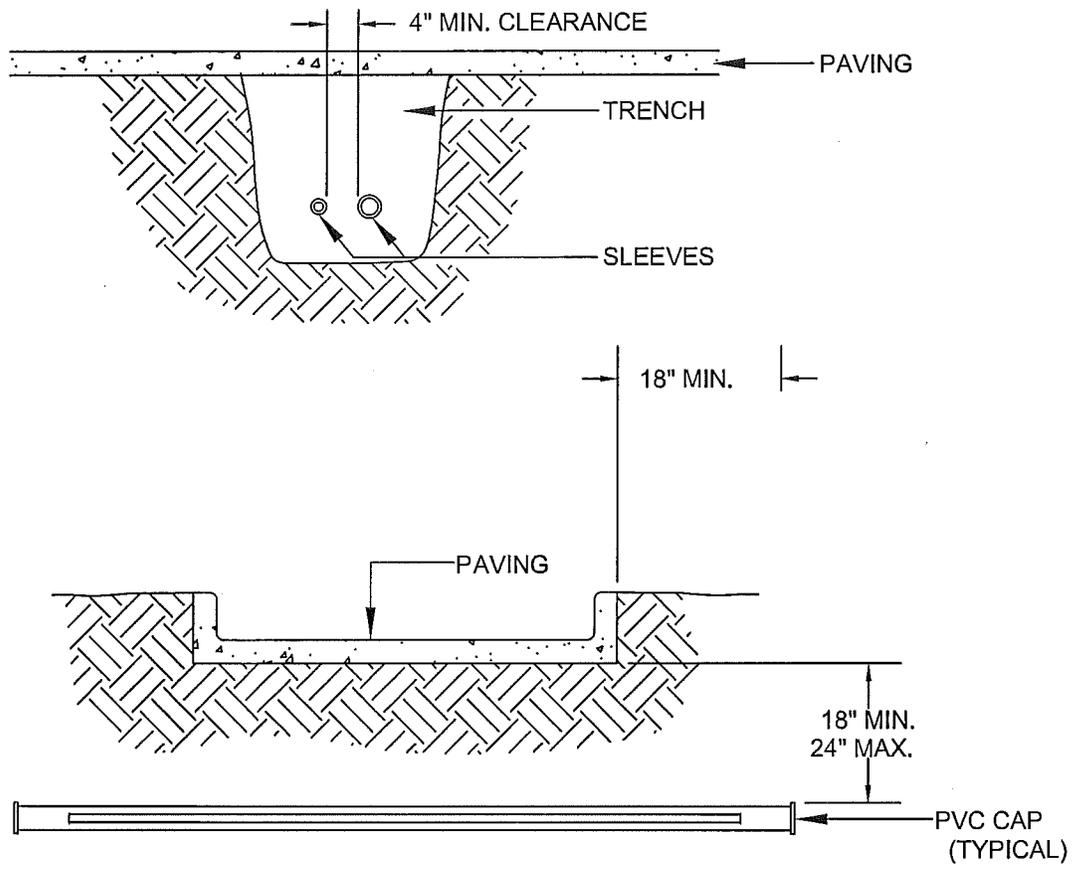
version: 01, revision: 00, date: 8/2006



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NOTES:

1. SLEEVES UNDER ROADS TO BE DUCTILE IRON IF CODE DIRECTS, OTHERWISE PVC.
2. ALL JOINTS (EXCEPT DUCTILE IRON) TO BE SOLVENT WELDED AND WATERTIGHT.
3. WHERE THERE IS MORE THAN ONE SLEEVE, PLACE THEM PARALLEL IN TRENCH.
DO NOT PLACE ON TOP OF EACH OTHER.
4. MECHANICALLY TAMP TO 95% PROCTOR.

IRRIGATION DETAIL IRR-05 SLEEVING

version: 01, revision: 00, date: 8/2006

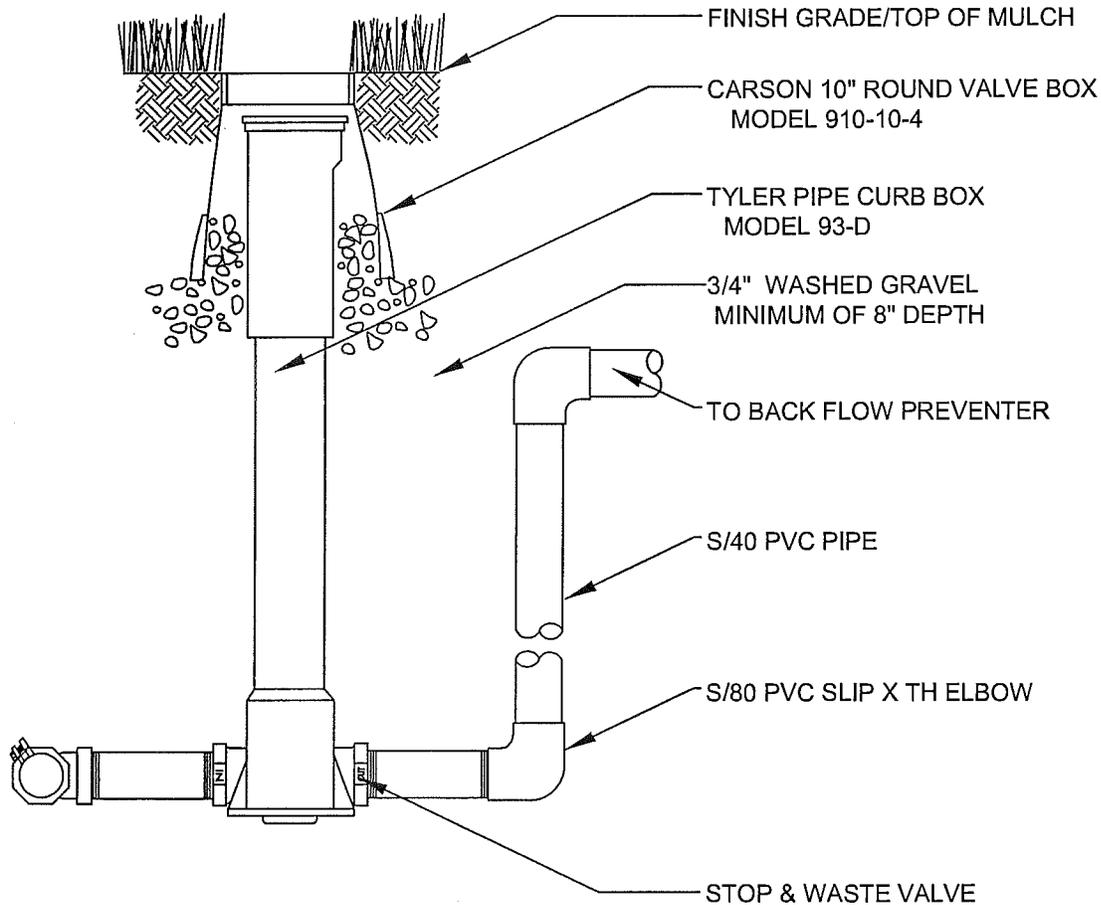


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1. USE MUELLER ORISEAL MODEL H-102-88 VALVE WITH THREADED TOP. HARD PIPE TO SURFACE WITH PIPE AND FITTINGS AS NEEDED.
2. USE USE PACK JOINT TEE, SADDLE, OR PACK JOINT F. A. TO CONNECT ON TO SUPPLY LINE USE MINIMUM 6" BRASS NIPPLES ON EITHER SIDE OF STOP & WASTE VALVE

IRRIGATION DETAIL IRR-06

STOP & WASTE VALVE

version: 01, revision: 00, date: 8/2006

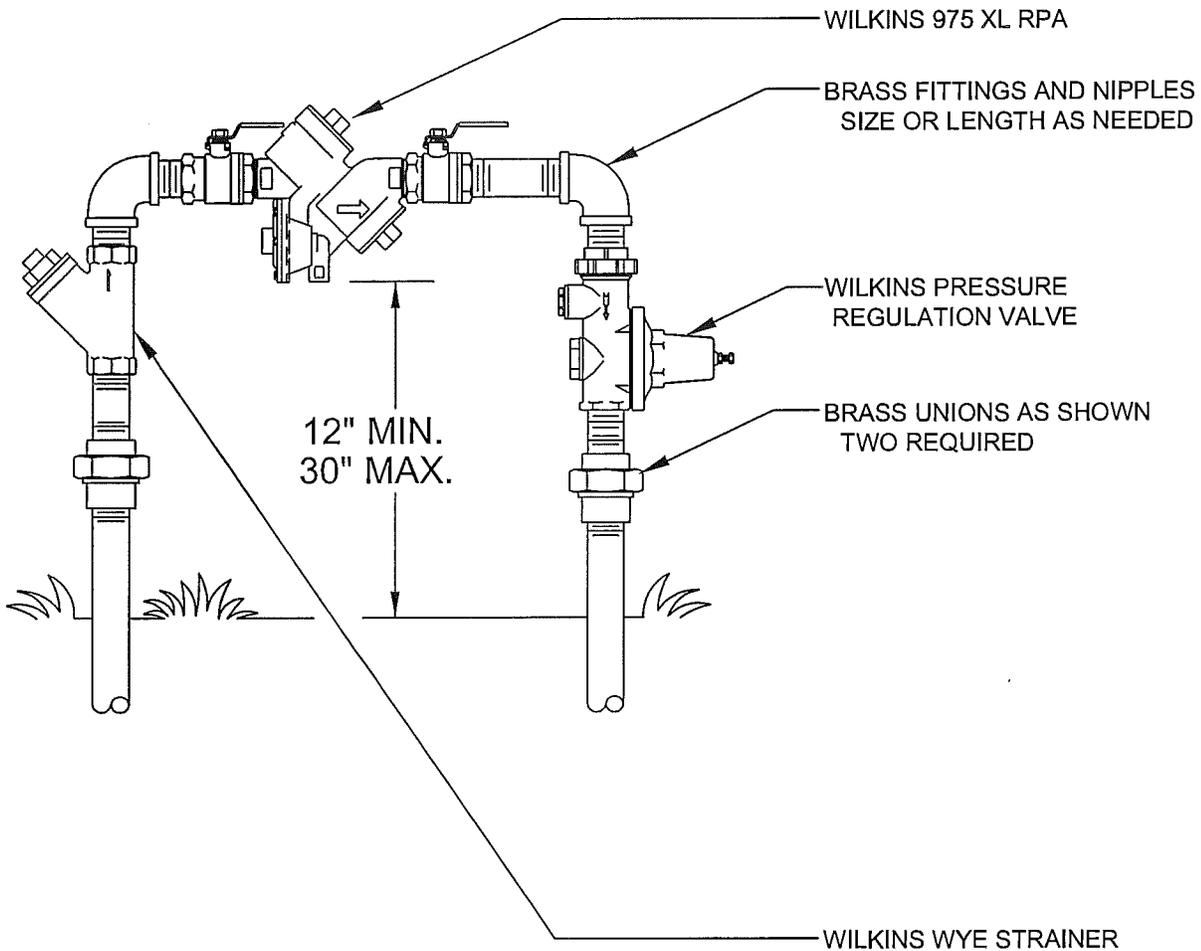


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1. LOCATE BACKFLOW DEVICE IN INCONSPICUOUS AREA IF POSSIBLE.
2. ALL PIPE, FITTINGS AND COMPONENTS SHALL BE BRASS.

IRRIGATION DETAIL IRR-07 BACKFLOW RPA

version: 01, revision: 00, date: 8/2006

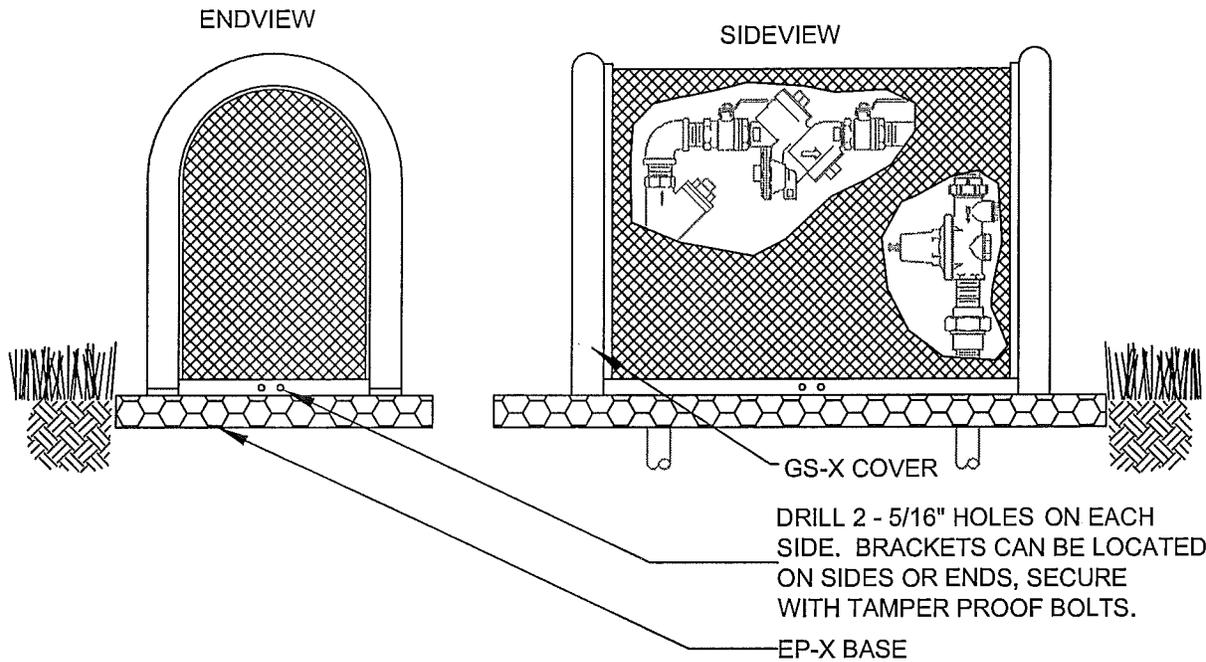


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1. USE BPGI BRAND 'GUARDSHACK', MODEL GS-X, WITH FOREST GREEN POWDER COATING. INSTALL TO MANUFACTURERS RECOMMENDATION.
2. USE BPGI BRAND 'ENCPAD' EP-X, PLASTIC BASE WITH 'PADLOK' ANCHOR HARDWARE. INSTALL TO MANUFACTURERS RECOMMENDATION.

IRRIGATION DETAIL IRR-08 BACKFLOW COVER

version: 01, revision: 00, date: 8/2006



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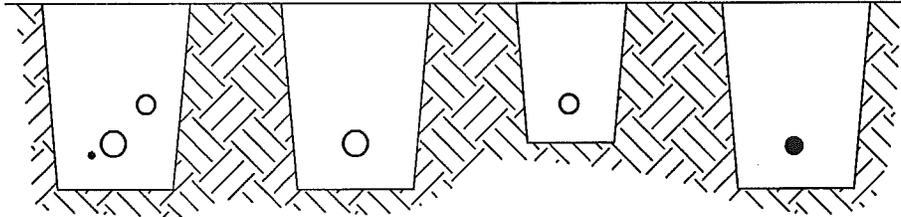
SECTION VIEW

MAIN, LATERAL,
AND WIRING
SAME TRENCH

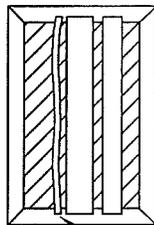
MAIN ONLY

LATERAL ONLY

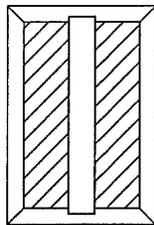
WIRING ONLY
IN CONDUIT



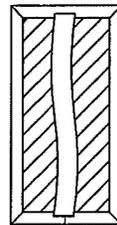
PLAN VIEW



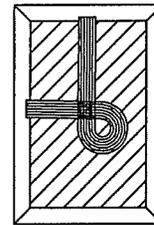
RUN WIRING BENEATH
AND BESIDE MAINLINE.
TAPE AND BUNDLE AT
10' INTERVALS.



ALL SOLVENT WELD
PLASTIC PIPING TO
BE SNAKED IN
TRENCH AS SHOWN.



WIRE W/O CONDUIT



TIE A 24" LOOP IN
ALL WIRING AT CHANGES
OF DIRECTION. UNTIE AFTER ALL
CONNECTIONS ARE MADE.

NOTES:

1. SLEEVES SHALL BE TWICE THE DIAMETER OF THE PIPE WITHIN.
2. SLEEVING SIZES 2" THROUGH 4" SHALL BE S/40 SOLVENT WELD.
6" AND ABOVE SHALL BE CL 200 GASKETED.
3. PIPE AND WIRE SHALL BE PLACED IN SEPARATE SLEEVES.
4. MAIN LINE SHALL HAVE 18" MIN. COVER, LATERAL LINE SHALL HAVE 12" MIN. COVER.

IRRIGATION DETAIL IRR-09 PIPE & WIRE TRENCH

version: 01, revision: 00, date: 8/2006



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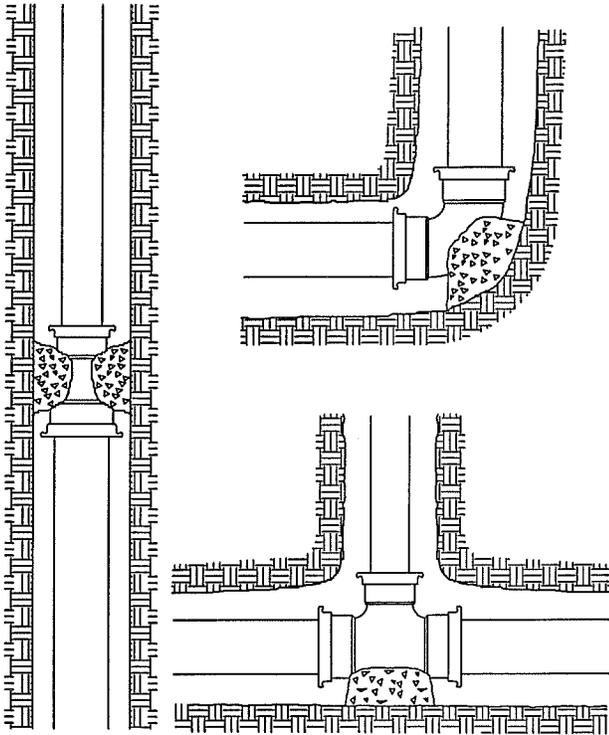


TABLE 1

SIZE	TEES PLUGS	90° BEND	45° BEND	22.5° BEND
2"	363	513	259	141
2 1/2"	531	751	379	207
3"	788	1,114	562	307
4"	1,302	1,841	928	508
6"	2,822	3,990	2,012	1,101
8"	4,783	6,763	3,410	1,865
10"	7,430	10,506	5,297	2,898
12"	10,452	14,778	7,452	4,076

FOR REDUCERS, SUBTRACT SMALL OPENING PLUG THRUST FROM LARGE OPENING PLUG THRUST TO CALCULATE THRUST / 100.

TABLE 2

SOIL TYPE	SAFE BEARING LOAD LBS PER SQ FT*
SOFT CLAY	1,000
SAND	2,000
SAND & GRAVEL	3,000
SAND & GRAVEL CEMENTED W/CLAY	4,000
HARD PAN	10,000

*THE ABOVE BEARING LOAD DATA WAS PROVIDED BY HARCO MFG. WHEN IN DOUBT, THE CONTRACTOR SHALL CONTACT A SOILS ENGINEER AND CONTRACT FOR A SOILS BEARING, OR OTHER NECESSARY TESTS.

NOTES:

1. PROVIDE THRUST BLOCKS AT ALL CHANGES IN SIZE OR DIRECTION. BENDS, REDUCERS, PLUGS AND THE OPPOSITE SIDE OF TEE BRANCHES ALL REQUIRE THRUST BLOCKS.
2. THE SIZE OF THE THRUST BLOCK IS DETERMINED BY THE WORKING PRESSURE, THE SIZE AND TYPE OF FITTING, AND SOIL CONDITIONS AT THE JOB SITE. TO CALCULATE THE AREA OF CONTACT WITH THE SOIL, FOLLOW THESE STEPS:
CALCULATE THE THRUST BY SELECTING THRUST / 100 BY SIZE AND TYPE OF FITTING FROM TABLE #1 AND MULTIPLYING THRUST / 100 BY SYSTEM PRESSURE / BY 100.
3. DIVIDE THE TOTAL THRUST BY BEARING CAPACITY OF THE SOIL IN EXCAVATION, (FROM TABLE #2 TO DETERMINE THE AREA IN SQUARE FEET OF THRUST BLOCK REQUIRED TO BE IN CONTACT WITH THE UNDISTURBED SOIL.

IRRIGATION DETAIL IRR-10 THRUST BLOCKING

version: 01, revision: 00, date: 8/2006

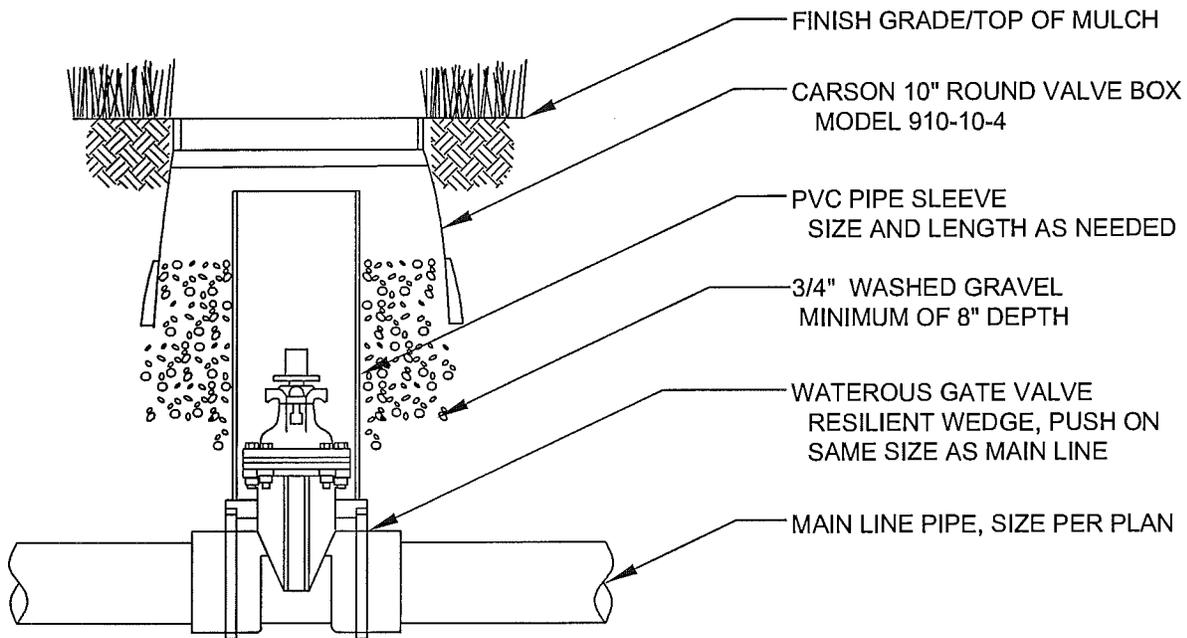


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NOTES:

1. TO BE USED ON MAIN LINE PIPE 3" AND LARGER.
2. VALVE SHALL HAVE 2" SQUARE OPERATING NUT.

IRRIGATION DETAIL IRR-11 LARGE GATE VALVE

version: 01, revision: 00, date: 8/2006

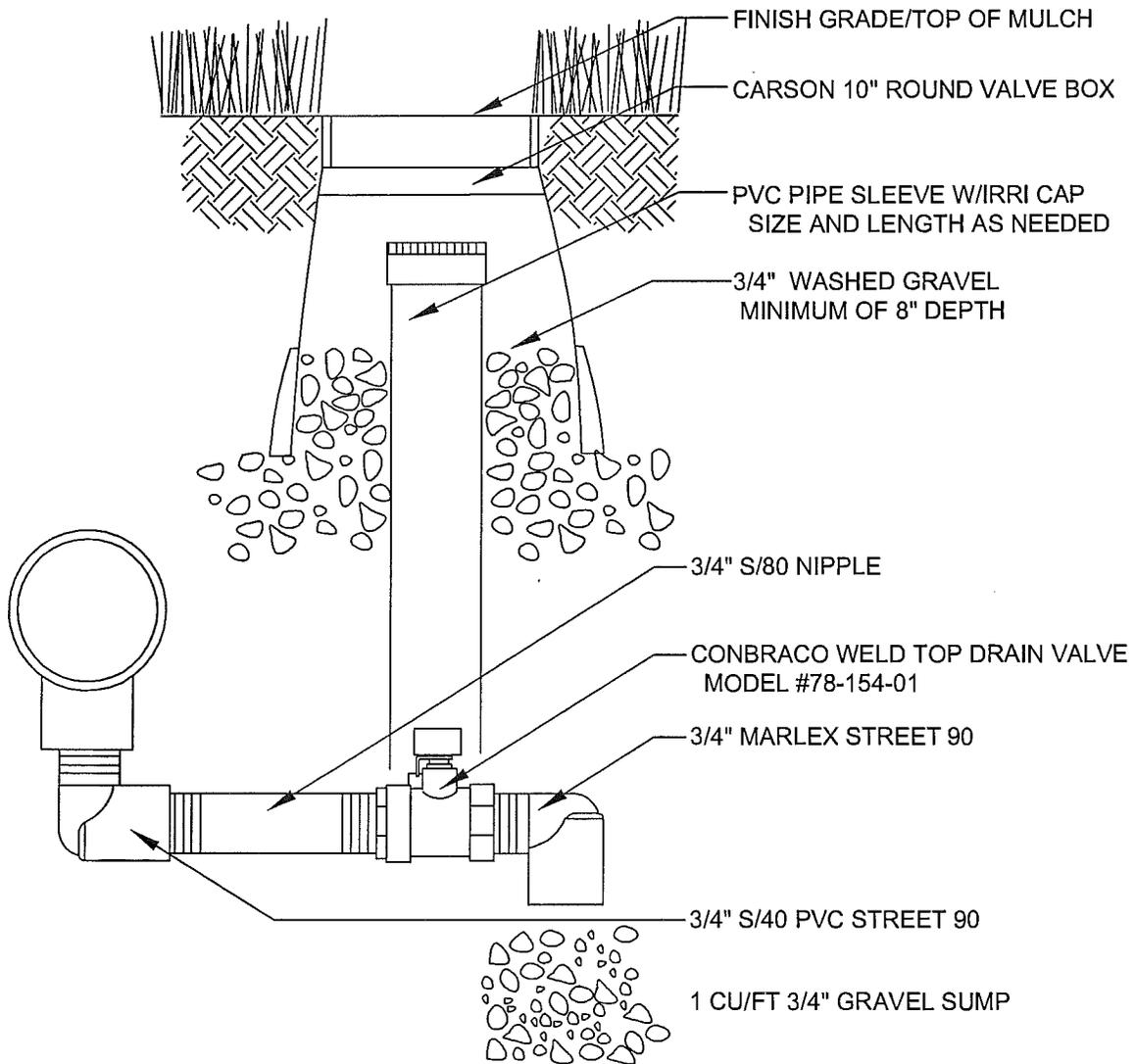


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IRRIGATION DETAIL IRR-12 MANUAL DRAIN

version: 01, revision: 00, date: 8/2006

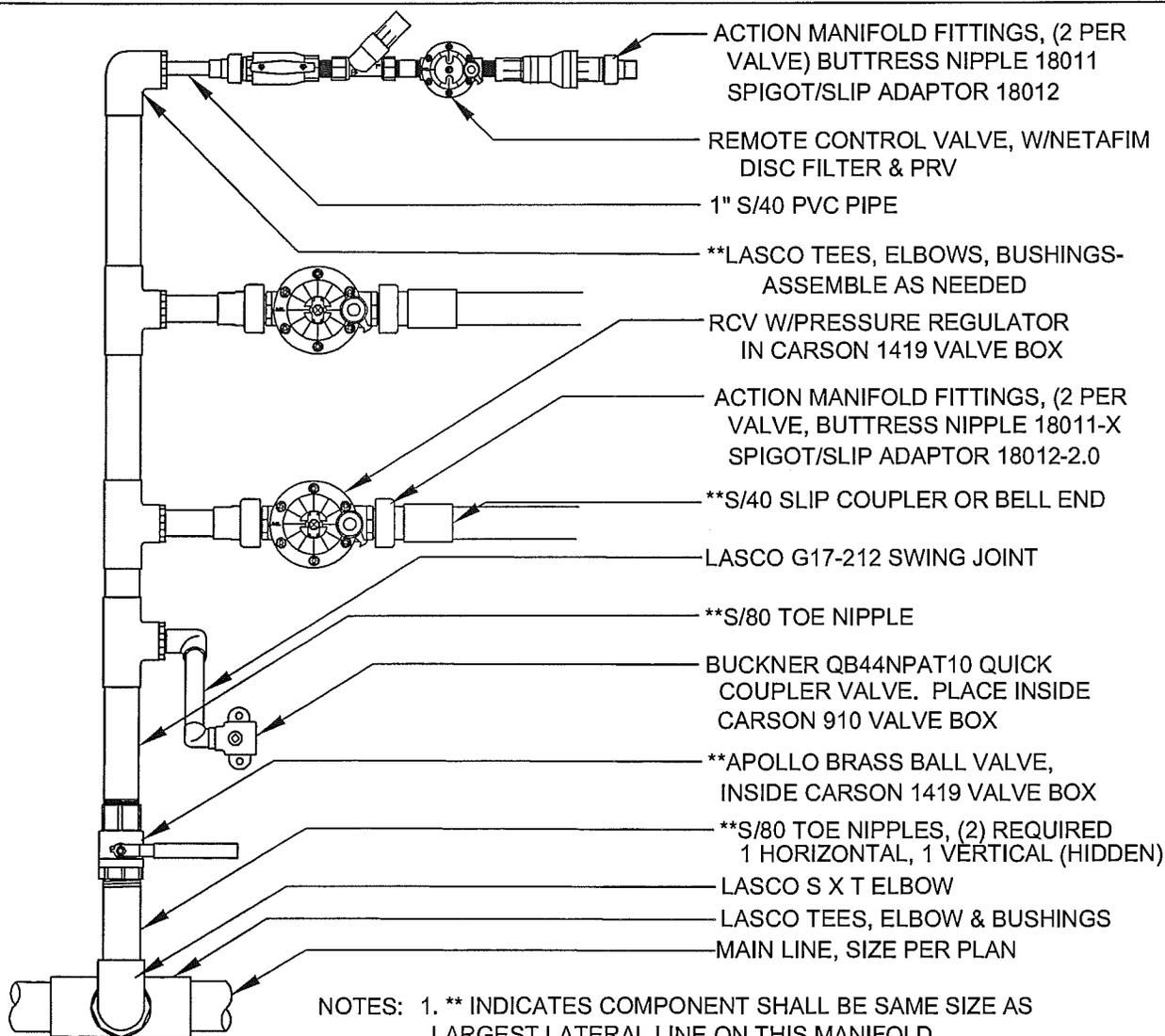


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- NOTES: 1. ** INDICATES COMPONENT SHALL BE SAME SIZE AS LARGEST LATERAL LINE ON THIS MANIFOLD.
 2. DOWNSTREAM OF BALL VALVE: MANIFOLD FITTINGS SHALL BE S/80, PVC PIPE SHALL BE S/40.
 3. LAY BALL VALVE ON SIDE. HANDLE VERTICAL IS OFF.

IRRIGATION DETAIL IRR-13 CONTROL VALVE MANIFOLD SCH-80

version: 01, revision: 00, date: 8/2006

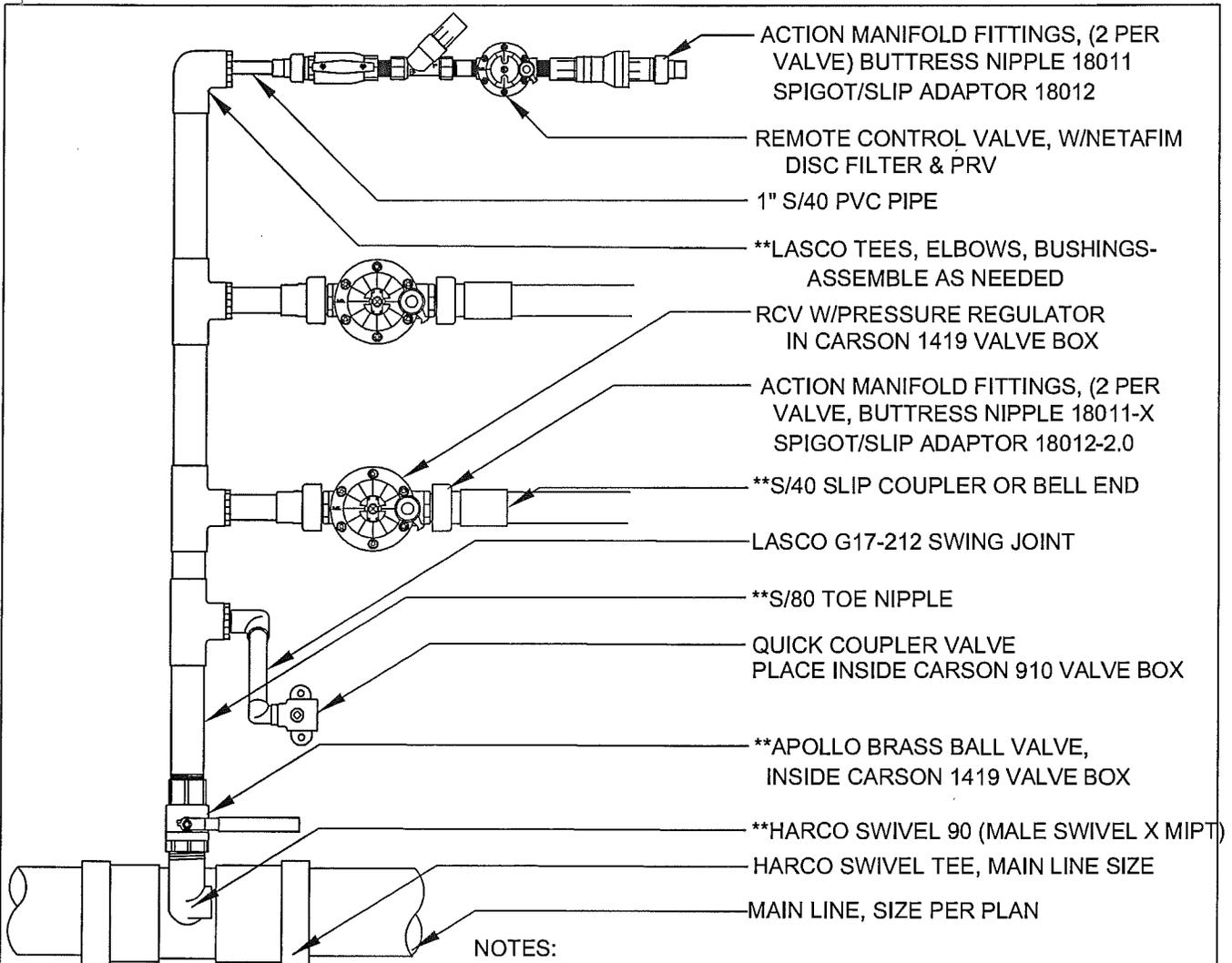


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NOTES:

1. ** INDICATES COMPONENT SHALL BE SAME SIZE AS LARGEST LATERAL LINE ON THIS MANIFOLD.
2. DOWNSTREAM OF BALL VALVE: MANIFOLD FITTINGS SHALL BE S/80, PVC PIPE SHALL BE S/40.

IRRIGATION DETAIL IRR-14 CONTROL VALVE MANIFOLD HARCO

version: 01, revision: 00, date: 8/2006

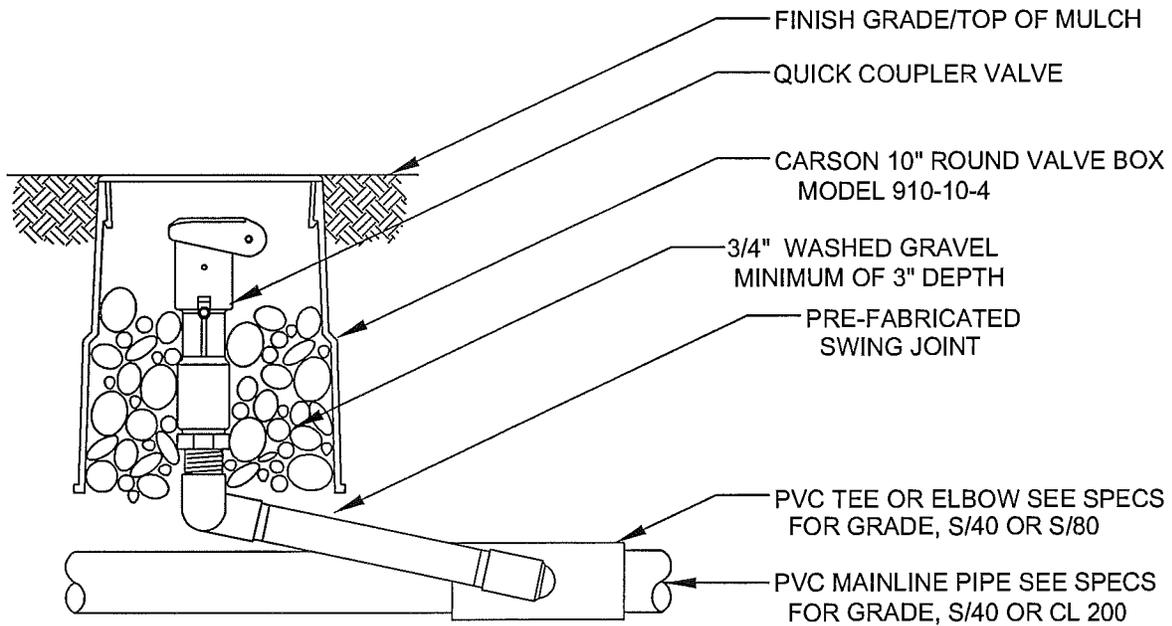


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ASSOCIATES
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Sandy UT 84092
801 571-6060

SOUTH JORDAN CITY
PARKS DEPARTMENT
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(801) 254-3742



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NOTES:

1. ACME O-RING SEALED THREADS ARE TO BE FINGER TIGHTENED AND THEN BACKED OFF ONE FULL ROTATION PRIOR TO INSTALLATION.
2. SWING JOINT LAY ARM SHALL BE INSTALLED AT ANGLE, BETWEEN 30 AND 45 DEGREES TO THE MAIN LINE PIPE.
3. SWING JOINT SHALL BE PRE-FABRICATED LASCO MODEL G17S-212

IRRIGATION DETAIL IRR-15 QUICK COUPLER VALVE

version: 01, revision: 00, date: 8/2006

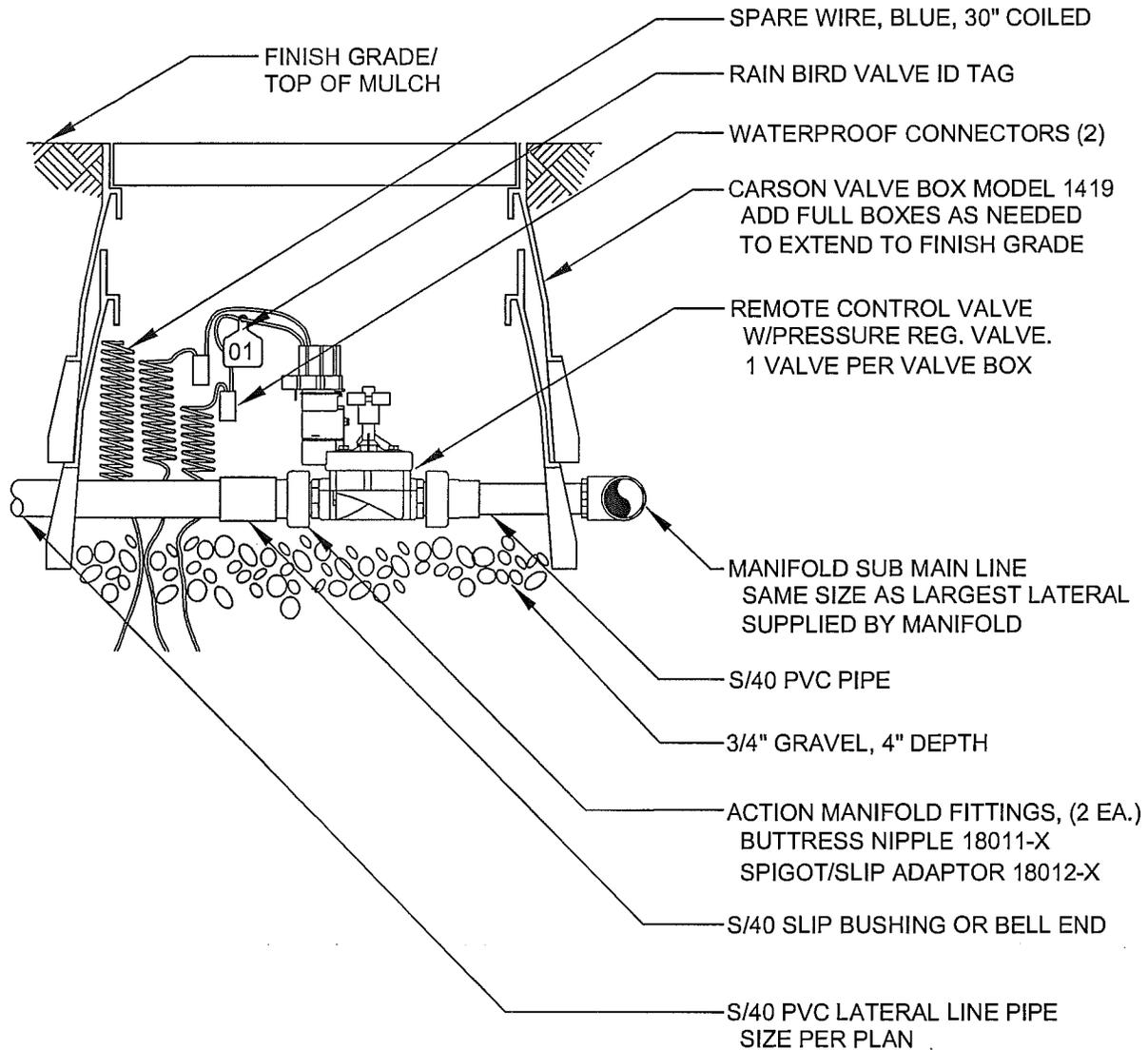


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IRRIGATION DETAIL IRR-16 REMOTE CONTROL VALVE

version: 01, revision: 00, date: 8/2006

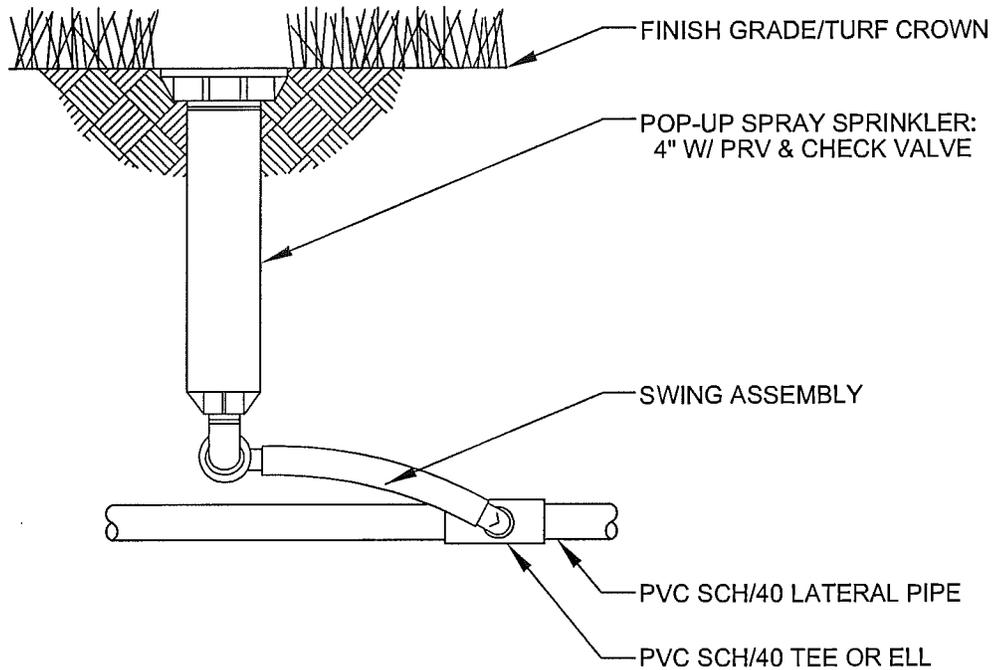


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NOTES:

1. SWING JOINT ASSEMBLY: TWO SPIRAL BARB ELBOWS, 12-24" SWING PIPE, AND ONE 1/2" MARLEX STREET ELBOW.
2. USE FIXED SPRAY NOZZLES WHEREVER POSSIBLE.

IRRIGATION DETAIL IRR-17 4" POP-UP SPRAY HEAD

version: 01, revision: 00, date: 8/2006

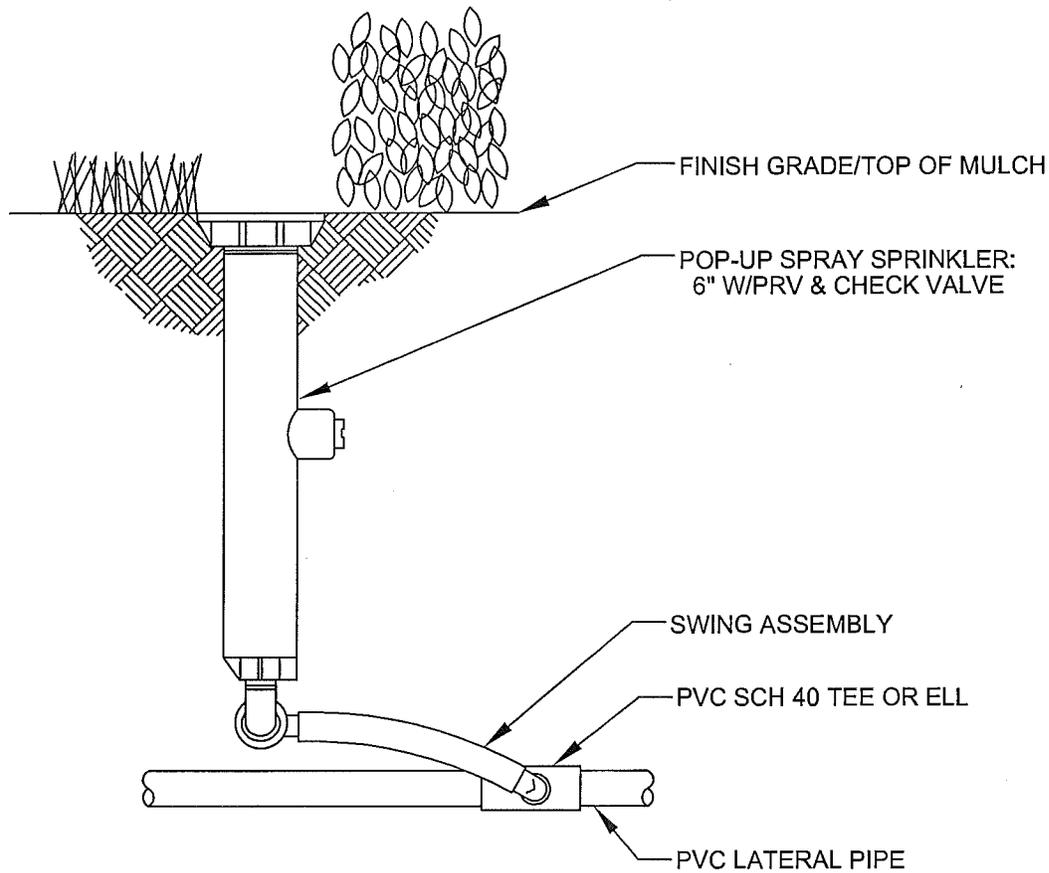


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NOTES:

1. SWING JOINT ASSEMBLY: TWO SPIRAL BARB ELBOWS, 12-24" SWING PIPE, AND ONE 1/2" MARLEX STREET ELBOW.
2. USE FIXED SPRAY NOZZLES WHEREVER POSSIBLE.

IRRIGATION DETAIL IRR-18 6" POP-UP SPRAY HEAD

version: 01, revision: 00, date: 8/2006

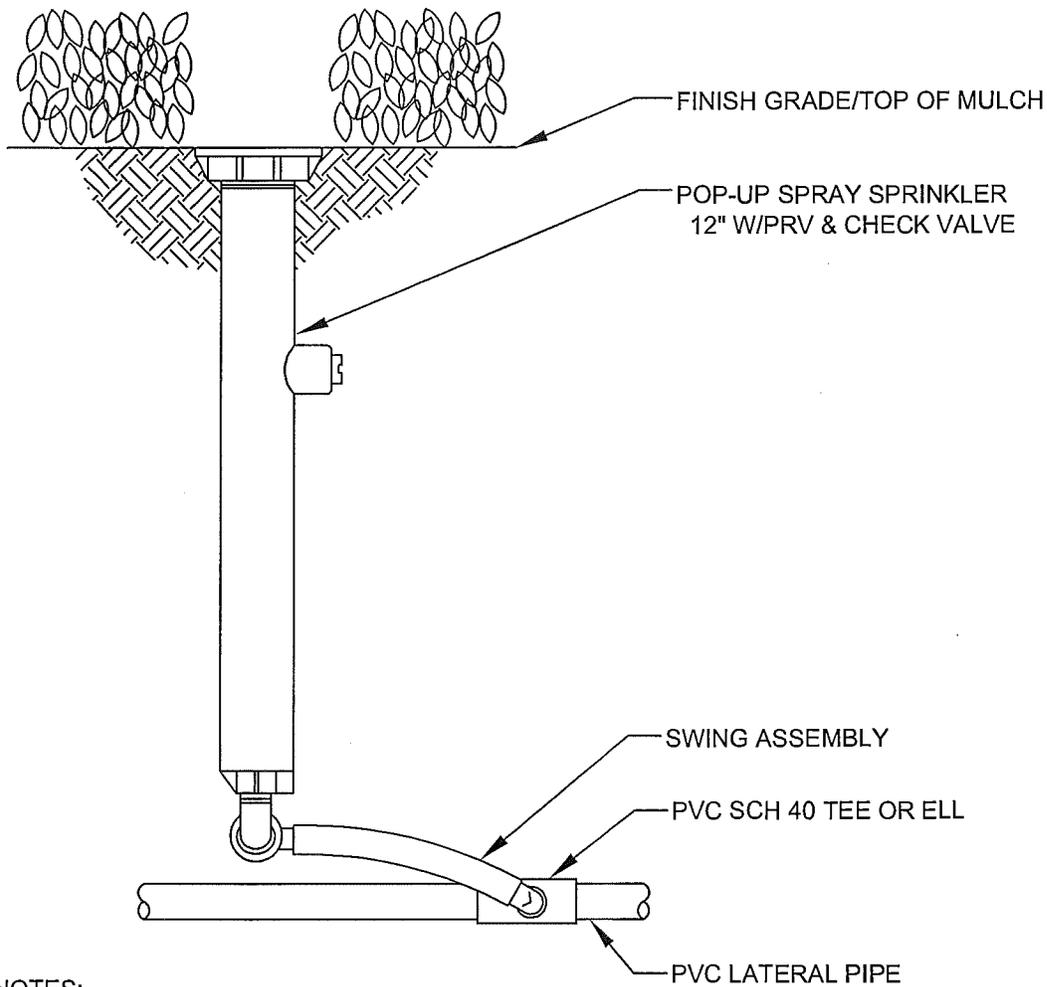


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NOTES:

1. SWING JOINT ASSEMBLY: TWO SPIRAL BARB ELBOWS, 12-24" SWING PIPE, AND ONE 1/2" MARLEX STREET ELBOW.
2. USE FIXED SPRAY NOZZLES WHEREVER POSSIBLE.

IRRIGATION DETAIL IRR-19 12" POP-UP SPRAY HEAD

version: 01, revision: 00, date: 8/2006

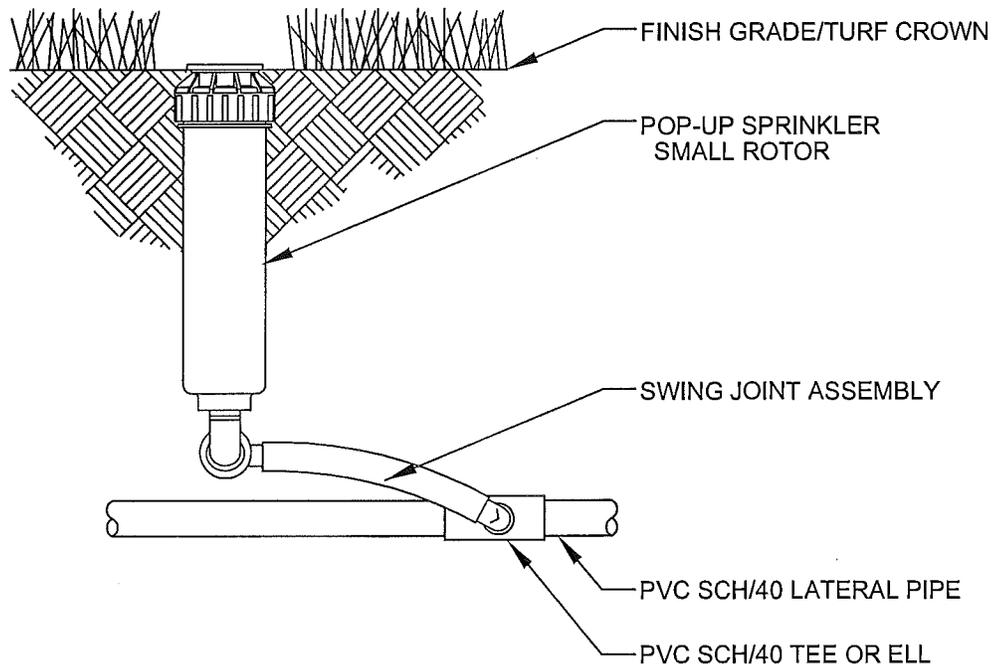


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NOTES:

1. SWING JOINT JOINT ASSEMBLY: TWO SPIRAL BARB ELBOWS, SBE-050, 12-24" SWING PIPE, AND ONE 1/2" MARLEX STREET ELBOW.
2. USE NOZZLE SPECIFIED ON PLAN.

IRRIGATION DETAIL IRR-20 SMALL ROTOR HEAD

version: 01, revision: 00, date: 8/2006

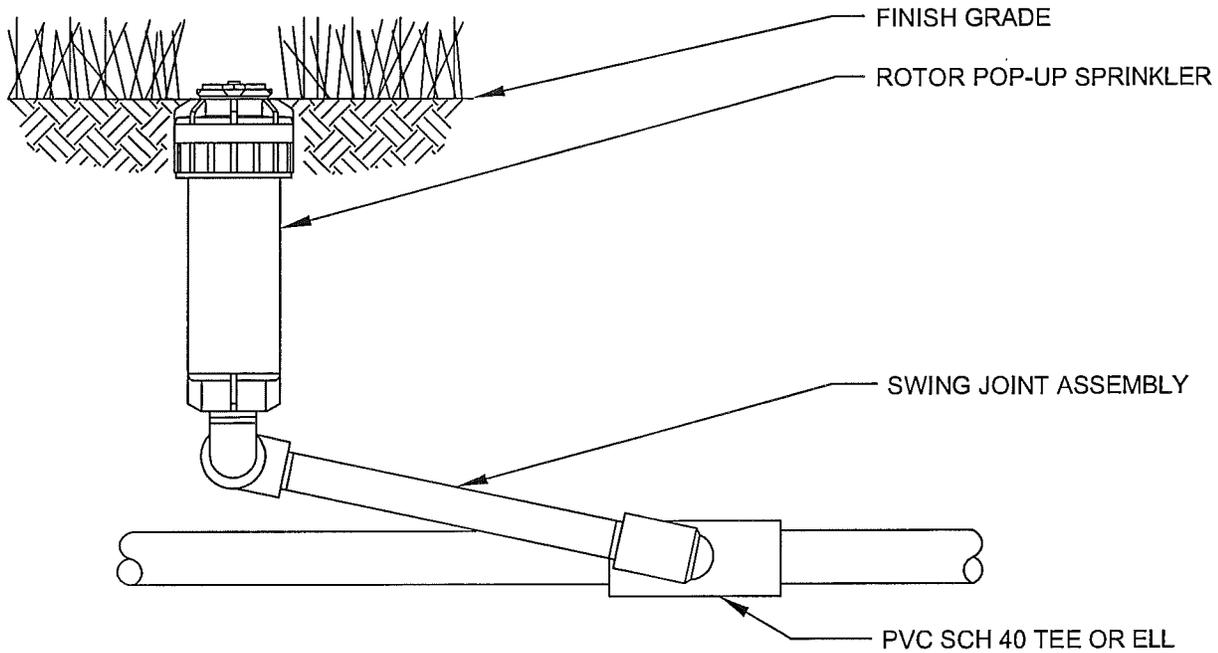


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NOTES:

1. POSITION LAY ARM OF SWING JOINT 30 TO 45 DEGREES FROM LATERAL PIPE.
2. INSTALL NOZZLE AS INDICATED ON PLAN. USE BOTTOM INLET ONLY.
3. FOR SWING JOINT, USE 3 MARLEX STREET ELBOWS AND 1 S/80 12" NIPPLE .

IRRIGATION DETAIL IRR-21 MEDIUM ROTOR HEAD

version: 01, revision: 00, date: 8/2006

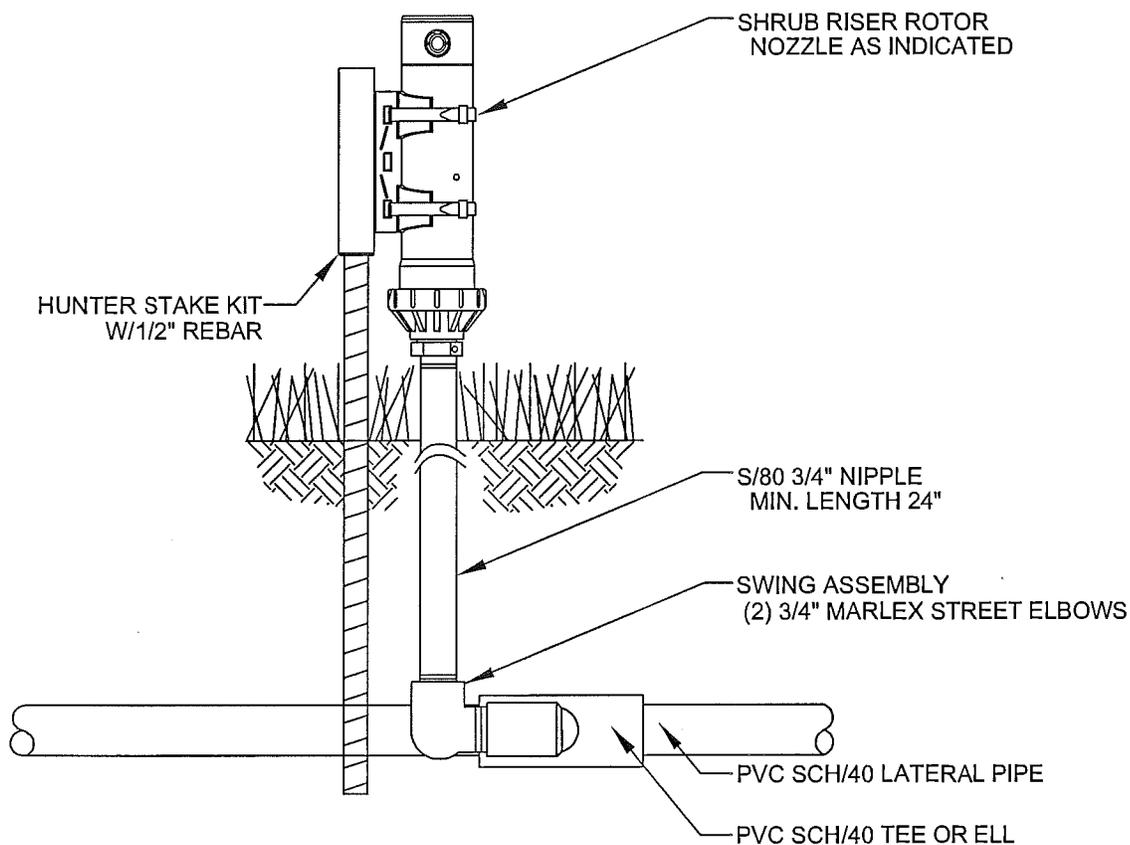


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NOTES:

1. INSTALL 1/2" REBAR ROD SUFFICIENT TO PREVENT ROTOR MOVEMENT.
2. INSTALL STAKE KIT AS SHOWN W/CABLE TIES.
3. INSTALL 3/4 X 24 S/80 NIPPLE. EXTEND LENGTH AS NEEDED.

IRRIGATION DETAIL IRR-22 MEDIUM ROTOR SHRUB RISER

version: 01, revision: 00, date: 8/2006

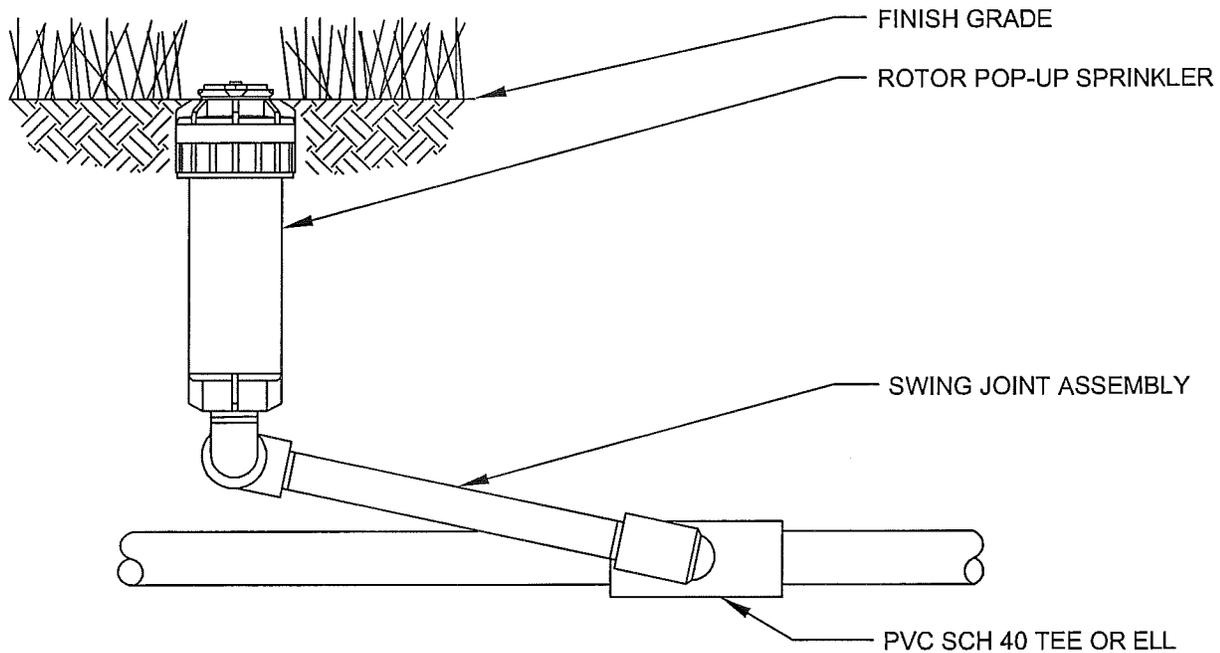


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NOTES:

1. POSITION LAY ARM OF SWING JOINT 30 TO 45 DEGREES FROM LATERAL PIPE.
2. INSTALL NOZZLE AS INDICATED ON PLAN. USE BOTTOM INLET ONLY.
3. FOR SWING JOINT, USE MFG PRE-FABRICATED SWING JOINT ASSEMBLY.

IRRIGATION DETAIL IRR-23 SPORTS TURF HEAD

version: 01, revision: 00, date: 8/2006

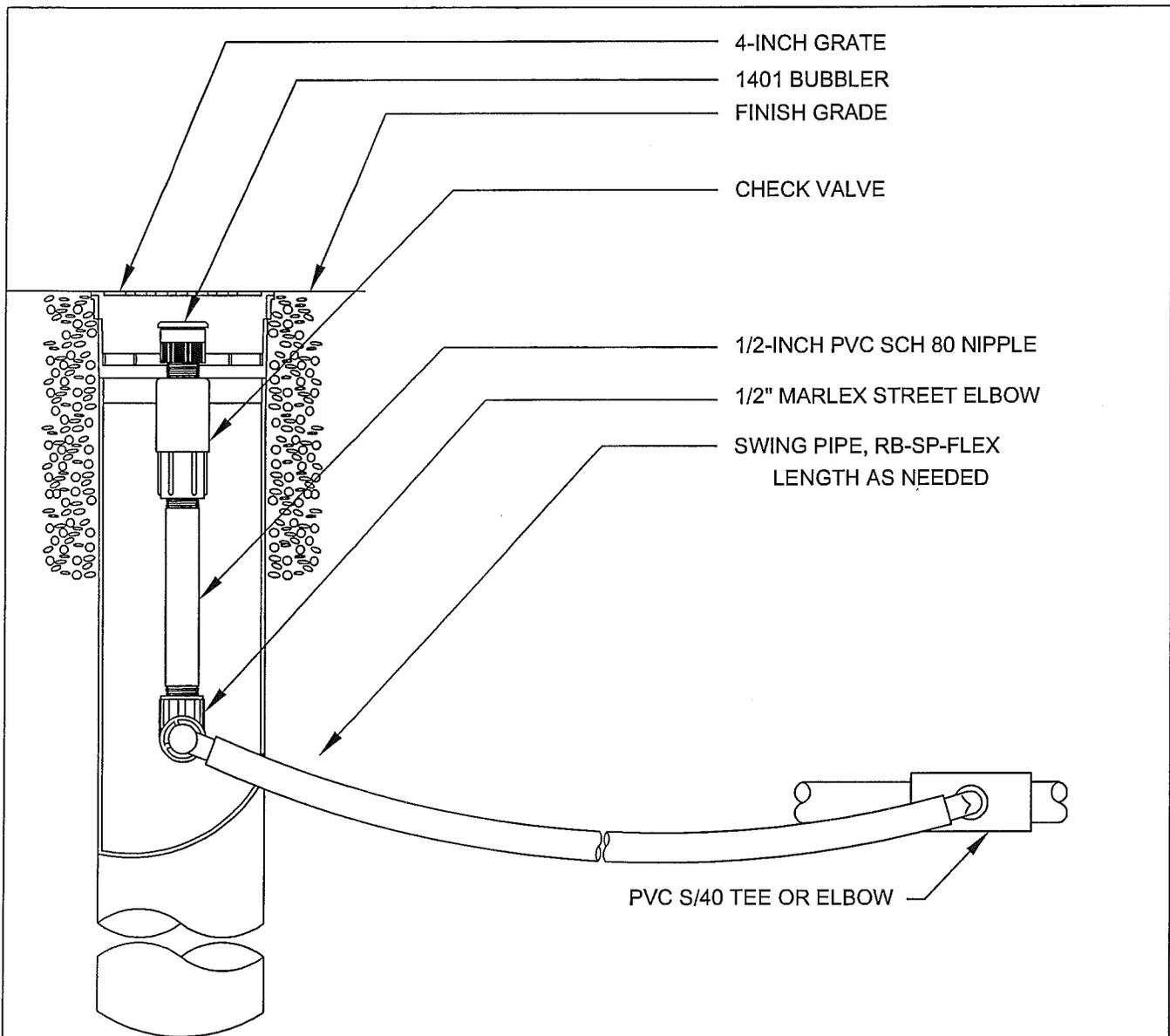


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IRRIGATION DETAIL IRR-24 TREE WATERING SYSTEM

version: 01, revision: 00, date: 8/2006

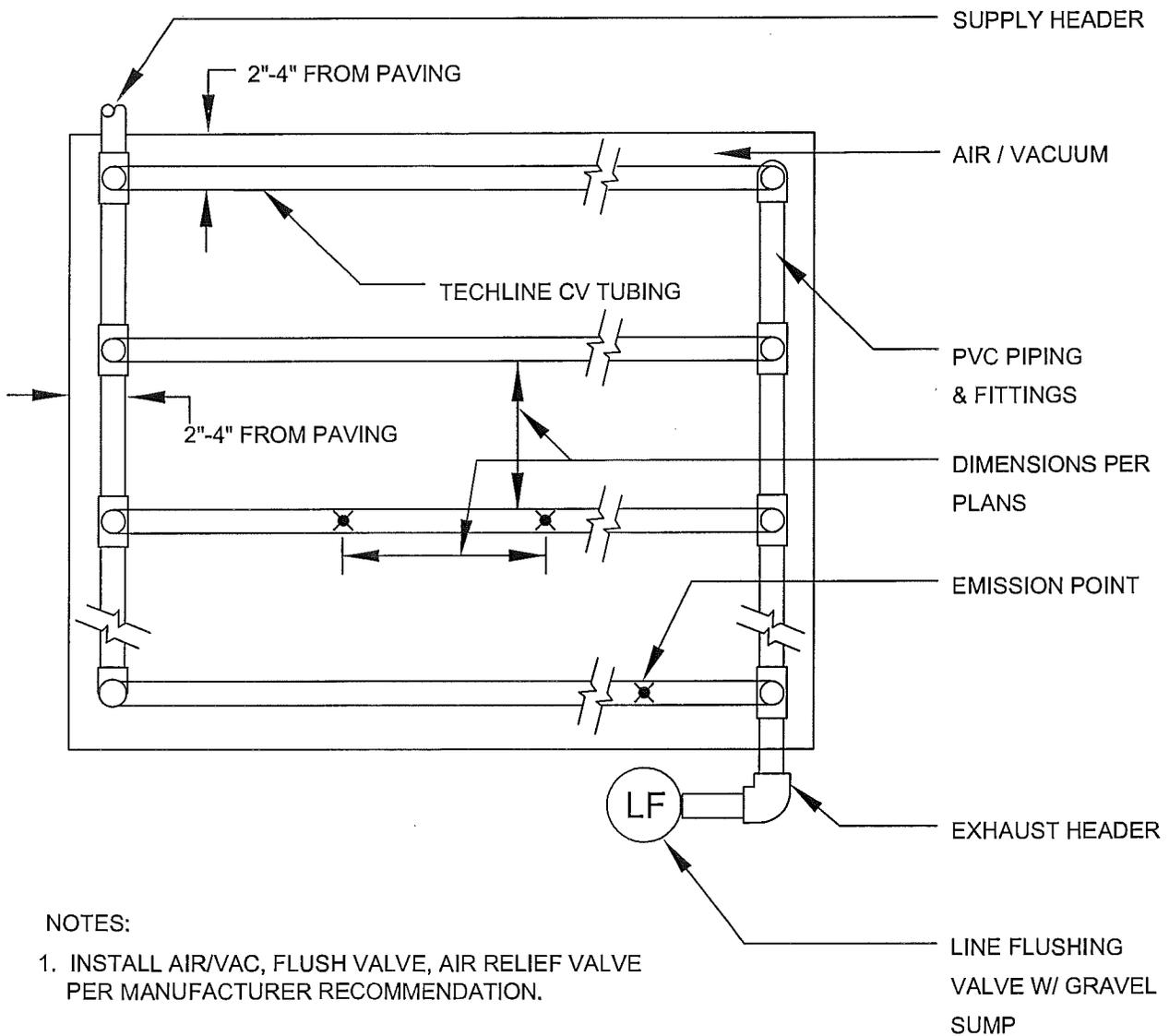


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IRRIGATION DETAIL IRR-25 IN LINE DRIP GRID LAYOUT

version: 01, revision: 00, date: 8/2006

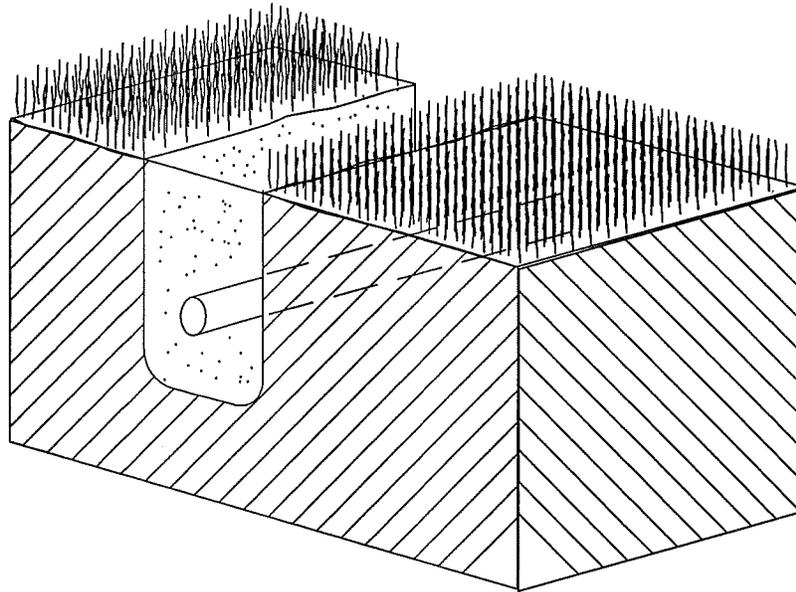
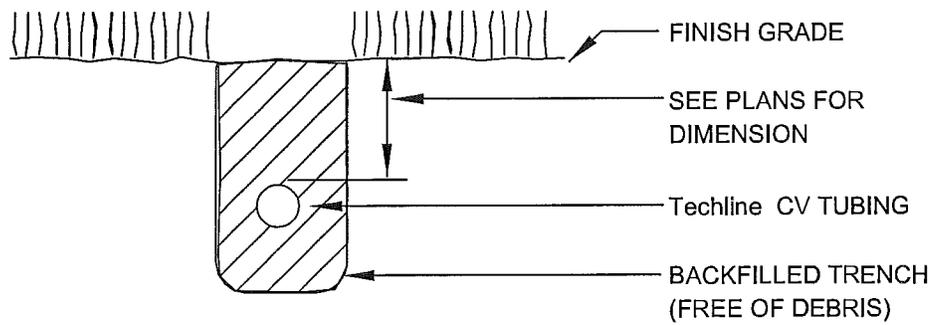


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NOTES:

1. INSTALL AIR/VAC, FLUSH VALVE, AIR RELIEF VALVE PER MANUFACTURER RECOMMENDATION.

IRRIGATION DETAIL IRR-26 DRIP SUB SURFACE TURF

version: 01, revision: 00, date: 8/2006

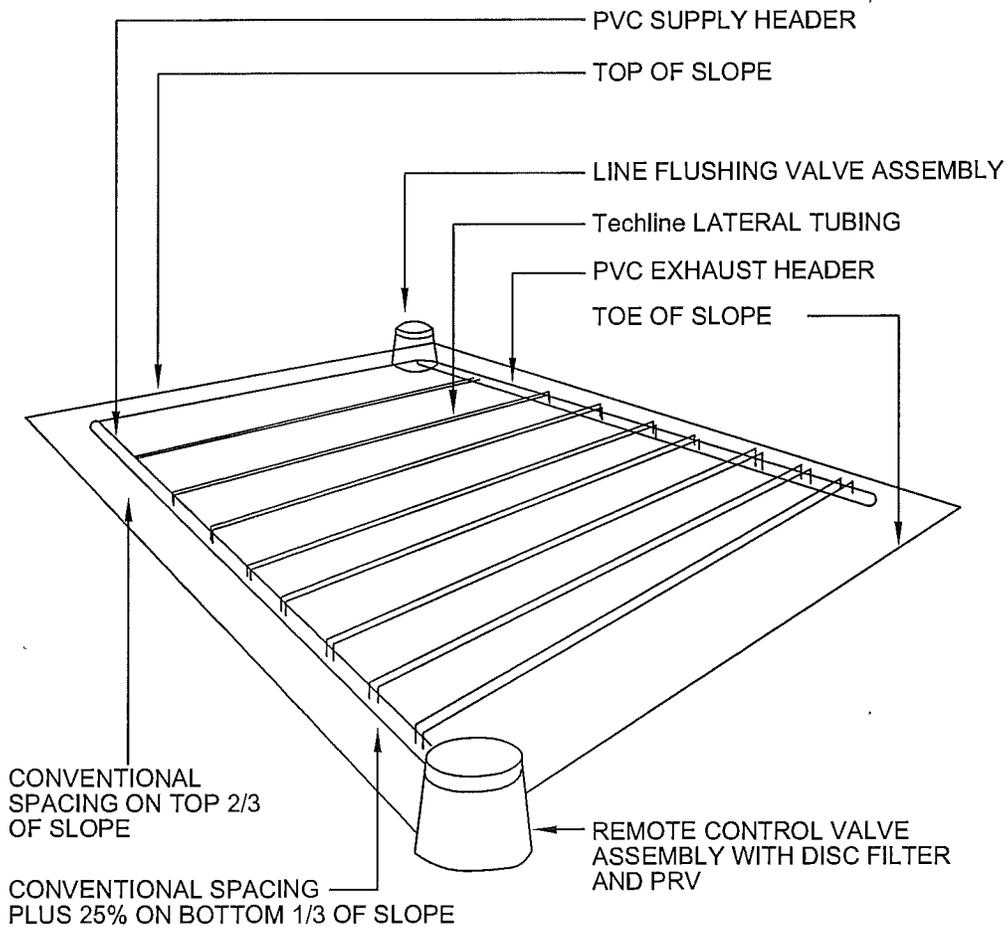


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NOTE:
ALIGN Techline LATERALS PARRALLEL TO THE CONTOURS OF THE SLOPE

IRRIGATION DETAIL IRR-27 DRIP ON SLOPE

version: 01, revision: 00, date: 8/2006

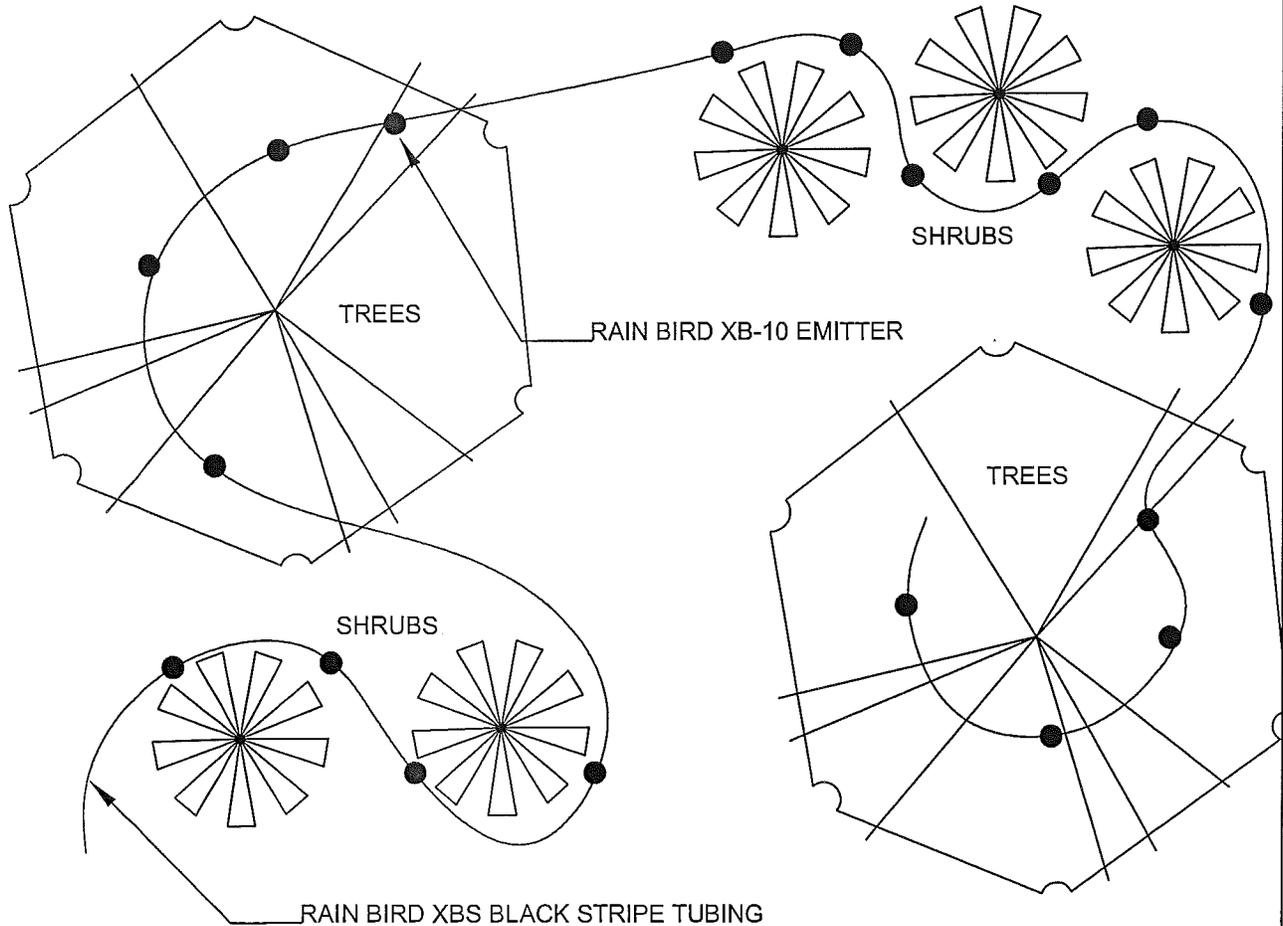


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LOCATE EMITTERS ON UPHILL SIDE OF SHRUBS. ON
 ON SLOPES PROVIDE WATER RETENTION BASIN
 AROUND PLANT TO ALLOW WATER TO POOL

IRRIGATION DETAIL IRR-28 DRIP POINT SOURCE EMITTER

version: 01, revision: 00, date: 8/2006

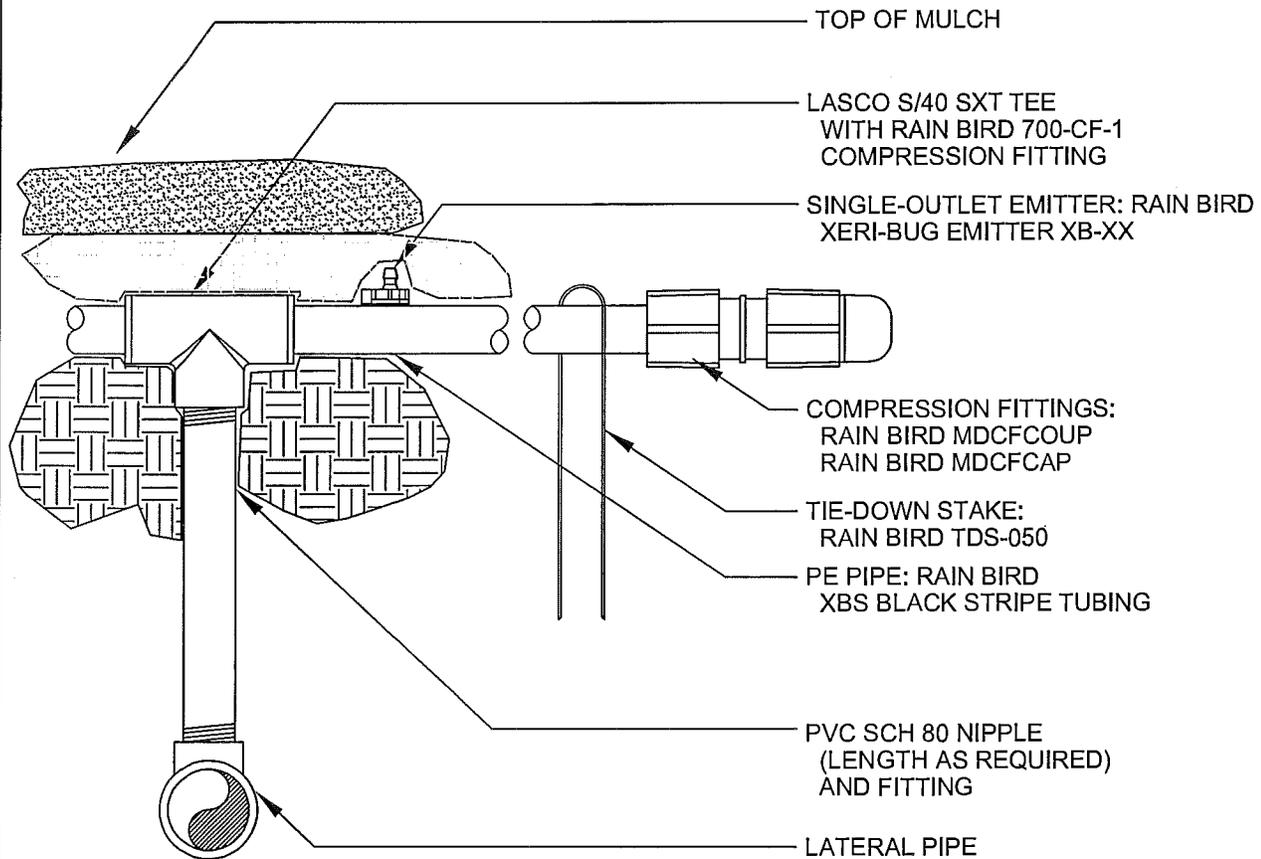


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NOTE:

1. USE RAIN BIRD BUG GUN MODEL EMA-BG TO INSERT EMITTER DIRECTLY INTO XBS BLACK STRIPE TUBING.

IRRIGATION DETAIL IRR-29 DRIP PVC TO PE CONNECTION

version: 01, revision: 00, date: 8/2006



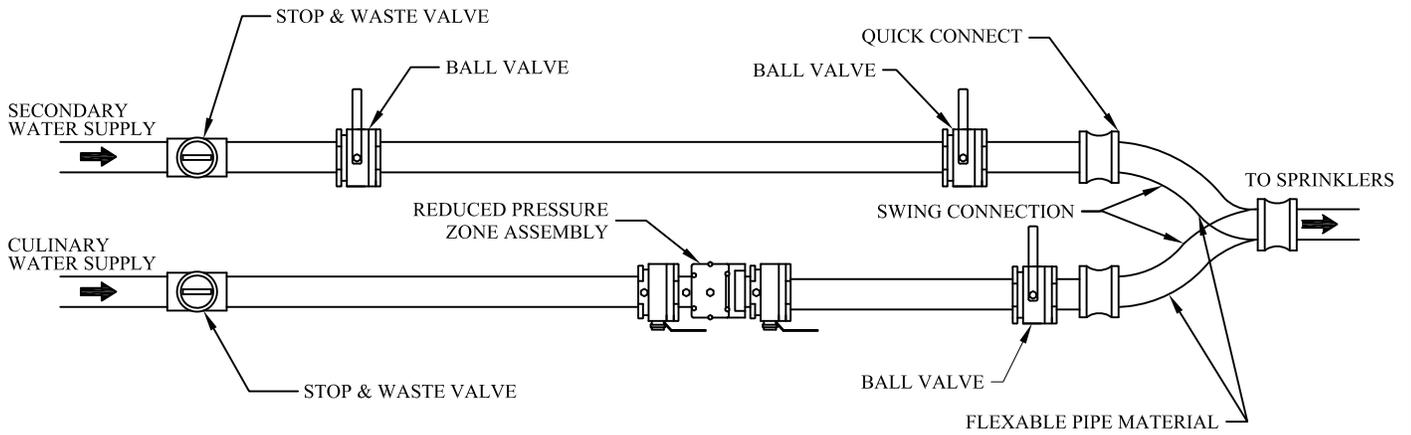
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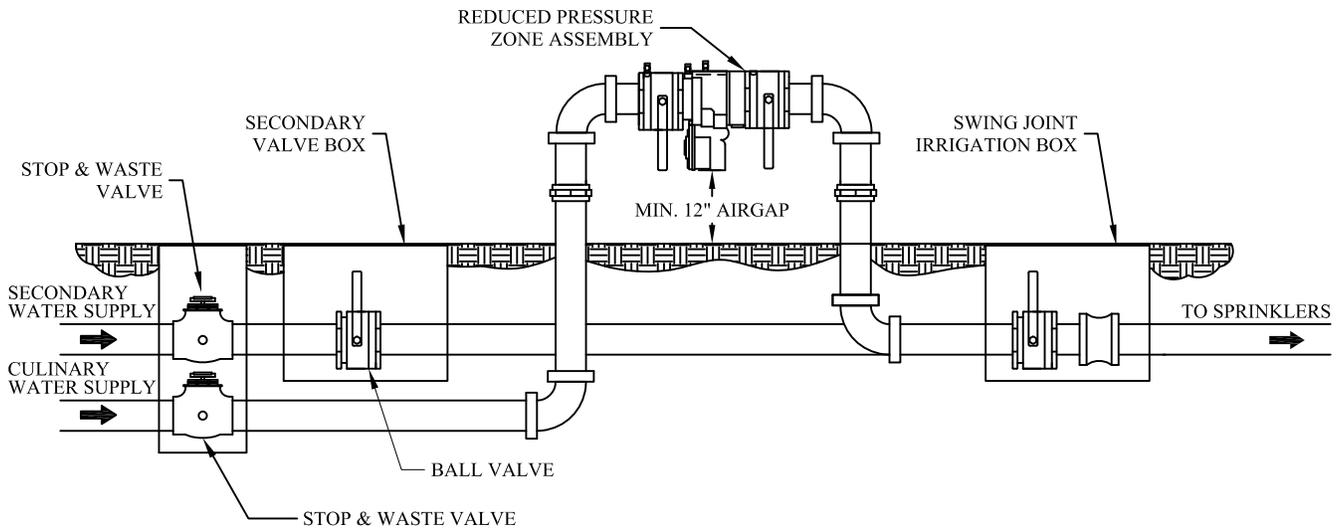


SOUTH JORDAN

SECONDARY WATER



PLAN VIEW
NOT TO SCALE



PROFILE VIEW
NOT TO SCALE

NOTES:

1. THE SWING CONNECTION IS INSTALLED SO THAT EITHER THE SECONDARY IRRIGATION WATER OR THE CULINARY WATER IS CONNECTED AND FEEDING THE SPRINKLER SYSTEM AT THE ONE TIME, NEVER BOTH.
2. THE REDUCED PRESSURE ZONE ASSEMBLY MUST BE LOCATED AT A MINIMUM OF 12" FROM WALL, FENCE OR OTHER OBSTACLE.
3. THE REDUCED PRESSURE ZONE ASSEMBLY MUST BE LOCATED AT A MINIMUM OF 12" ABOVE GRADE (NOT ALLOWED IN A PIT BELOW GRADE).
4. THE REDUCED PRESSURE ZONE ASSEMBLY MUST BE TESTED BY A CERTIFIED BACKFLOW TECHNICIAN ON AN ANNUAL BASIS.

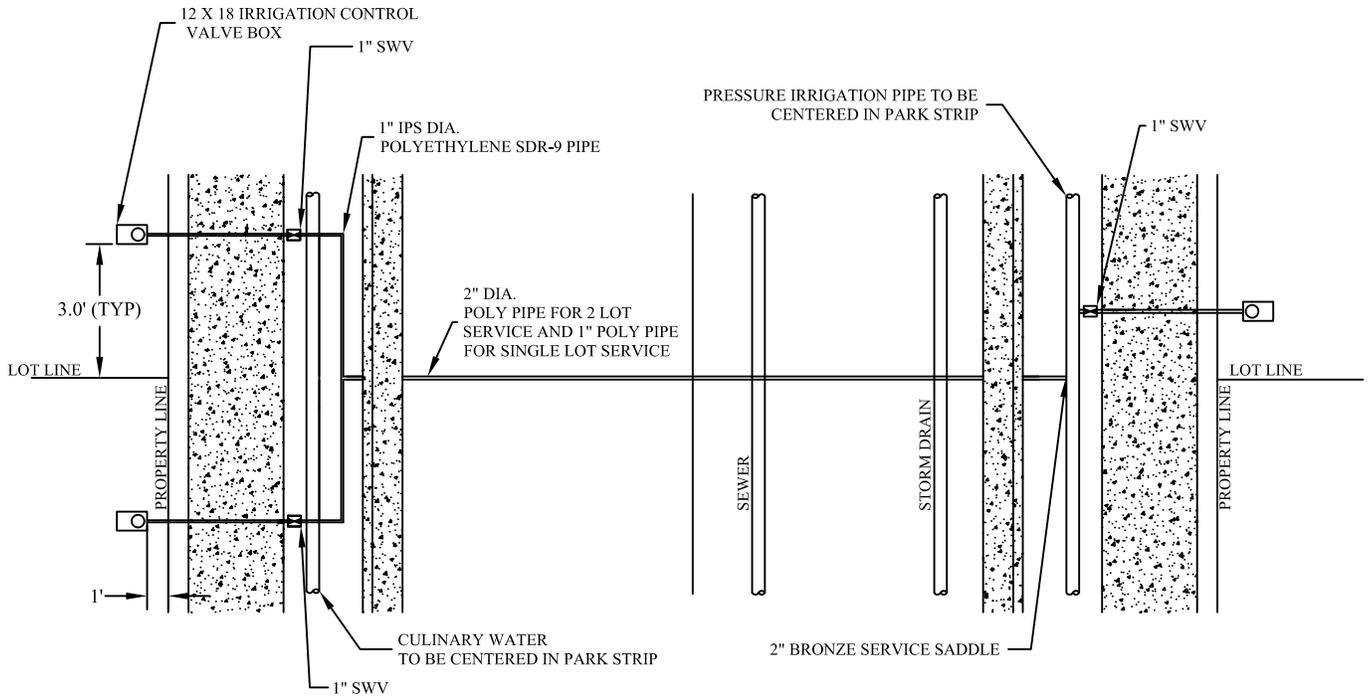


SOUTH JORDAN CITY

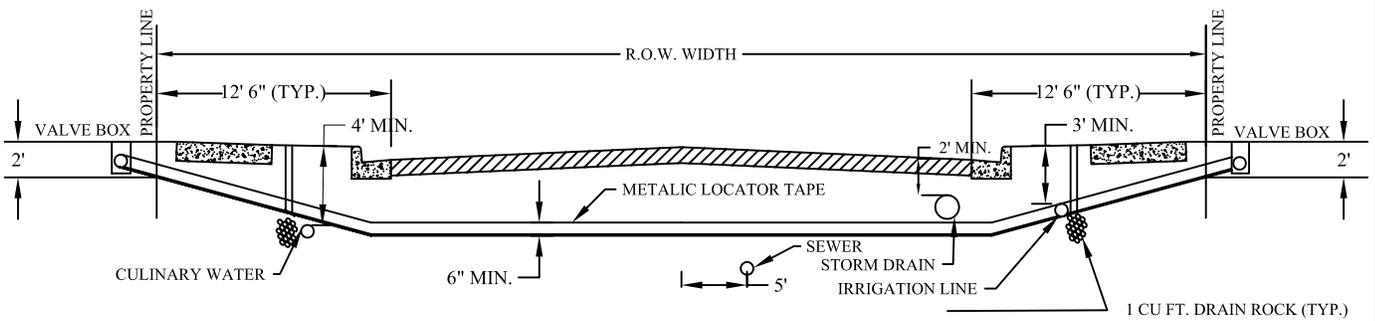
			DRAWN: KS
			DATE: 2/06
DATE	REVISIONS	BY	

**BACKFLOW PREVENTION DEVICE
IRRIGATION CONNECTION**

STANDARD
DRAWING
2001



TYPICAL DOUBLE RISER DETAIL
NOT TO SCALE



TYPICAL DOUBLE RISER DETAIL
NOT TO SCALE



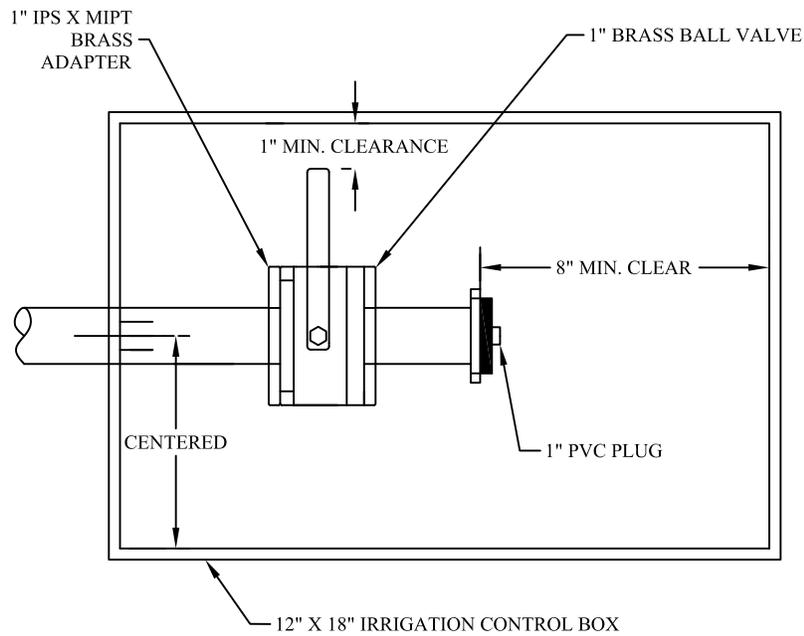
SOUTH JORDAN CITY

DATE	REVISIONS	BY

DRAWN:
KS
DATE:
2/06

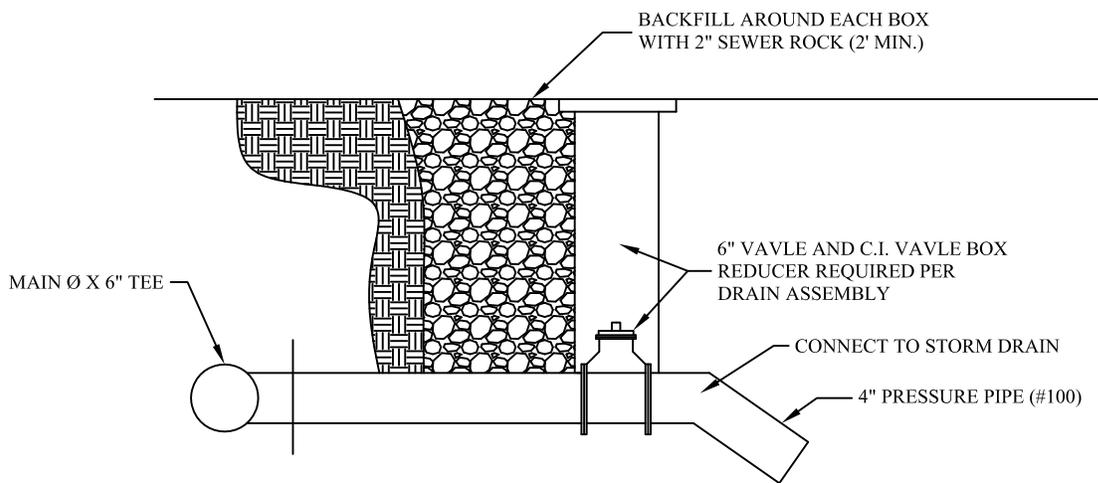
**SECONDARY WATER
LATERAL LAYOUT**

STANDARD
DRAWING
2002



SERVICE DETAIL

NOT TO SCALE



DRAIN ASSEMBLY

NOT TO SCALE

NOTE:

- 1. ALL DRAIN VALVES TO BE GATE VALVES



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			DRAWN: KS
			DATE: 2/06
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**SECONDARY WATER
IRRIGATION CONNECTION**

STANDARD
DRAWING
2003

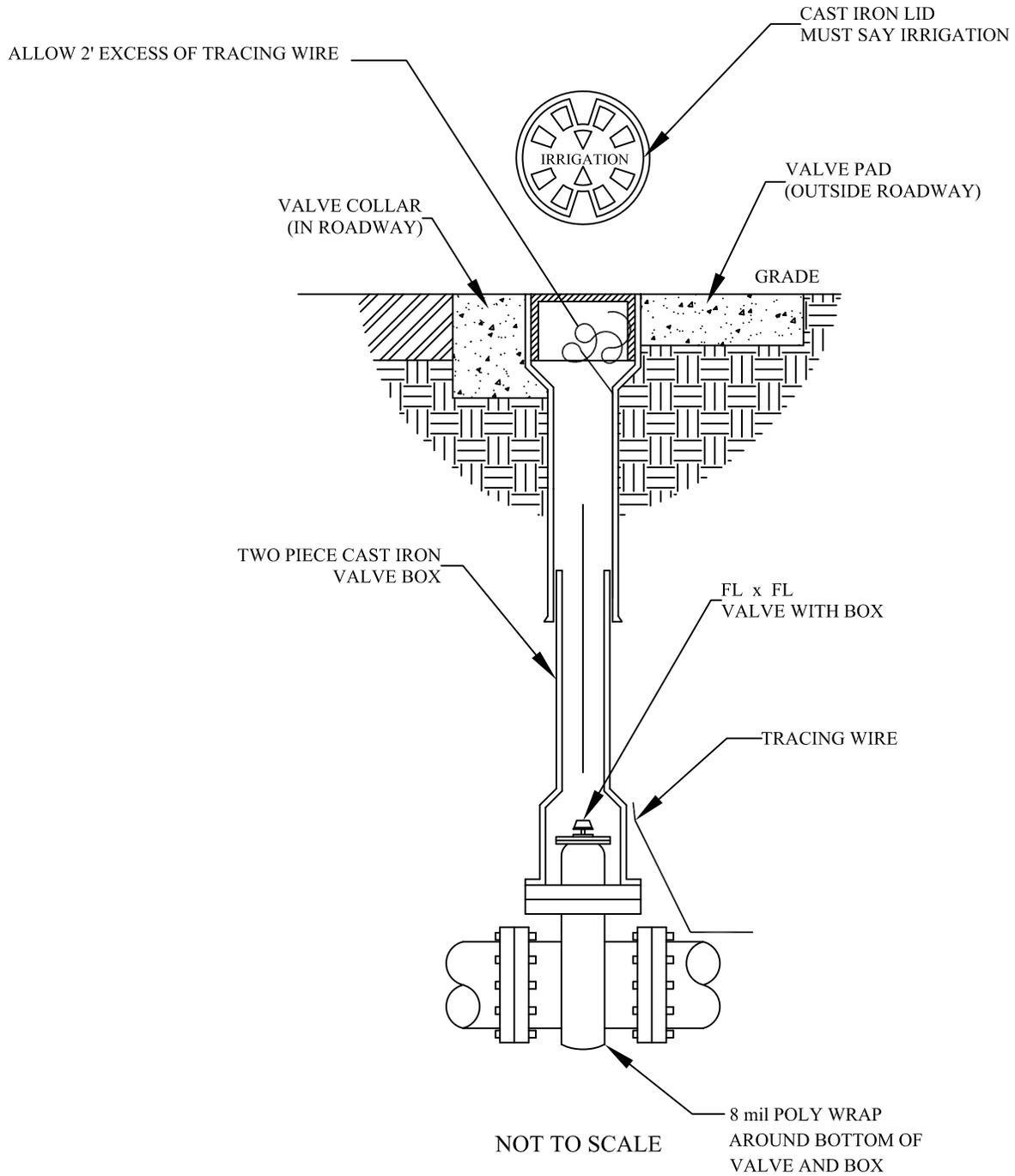
NOTES:

1. STOP AND WASTE VALVES TO BE MUELLER 300, FORD R11-444, OR APPROVED EQUIVALENT SHALL BE PLACED IN A 3-PC. CAST IRON VALVE BOX AND LOCATED ADJACENT TO THE SIDEWALK ACROSS FROM THE SERVICE BOX.
2. BALL VALVES AT SERVICE CONNECTIONS SHALL BE BRASS, WATTS B-6080 OR APPROVED EQUIVALENT.
3. SERVICE SADDLES, IF USED, SHALL BE EQUAL TO THOSE REQUIRED FOR CULINARY SERVICE TAPS.
4. POLYETHYLENE PIPE SHALL BE SDR-9-PE 3408 MANUFACTURED TO MEET ASTM D-2737.
5. SECONDARY WATER MAINLINES SHALL BE PURPLE PVC C-900 DR18 PR 150 SIZED AS SHOWN ON PLANS.
6. NONMETALLIC PIPE AND SERVICE LATERALS SHALL BE BURIED WITH A METALLIC LOCATOR TAPE PLACED A MINIMUM OF 6" ABOVE THE PIPE.
7. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL OSHA TRENCH REQUIREMENTS.
8. THE COMP. X MIPT ADAPTERS SHALL BE MUELLER 110 OR APPROVED EQUIVALENT.
9. MINIMUM DISTANCE BETWEEN SERVICE TAPS IS 36".
10. SERVICE BOX COVER SHALL INCLUDE "IRRIGATION CONTROL VALVE" LABEL, OTHERWISE CONTRACTOR SHALL BRAND "IRR. SVC" IN 2" LETTERING.
11. CONTRACTOR SHALL BRAND "NON-POTABLE" ON COVER IN 3/4" LETTERS.
12. USE TEFLON TAPE ON ALL THREADED FITTINGS.
13. POUR 12" DIA. X 4" THICK CONCRETE COLLOR AROUND EACH STOP AND WASTE VALVE BOX, LEVEL WITH SIDEWALK AND TOP OF VAVLE BOX. FORM AROUND BOX LID SUCH THAT LID IS OPERABLE (1/4" MIN. CLEAR). STAMP "IRR. SVC." INTO CONCRETE.
14. FOR RETROFIT INSTALLATIONS, SERVICES MAY BE TUNNELED OR JETTED UNDER CURB, GUTTER, SIDEWALKS. OTHER STRUCTURES SHALL BE OPEN CUT WITH RESTORATION PER CITY SPECIFICATIONS.



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			DRAWN: KS	SECONDARY WATER STANDARD NOTES	STANDARD DRAWING 2004
			DATE: 2/06		
DATE	REVISIONS	BY			



- NOTES: 1. 14 GAUGE COPPER WIRE SHALL BE PLACED
OUTSIDE OF BOTTOM OF BOX AND
INSIDE TOP OF BOX
2. VALVE OPERATING NUTS SHALL BE WITHIN 3' TO
THE FINISHED SURFACE. EXTENSIONS STEMS WITH ROCK SHIELDS
SHALL BE PROVIDED WHERE DEPTHS EXCEED 4'.

PREPARED BY: _____

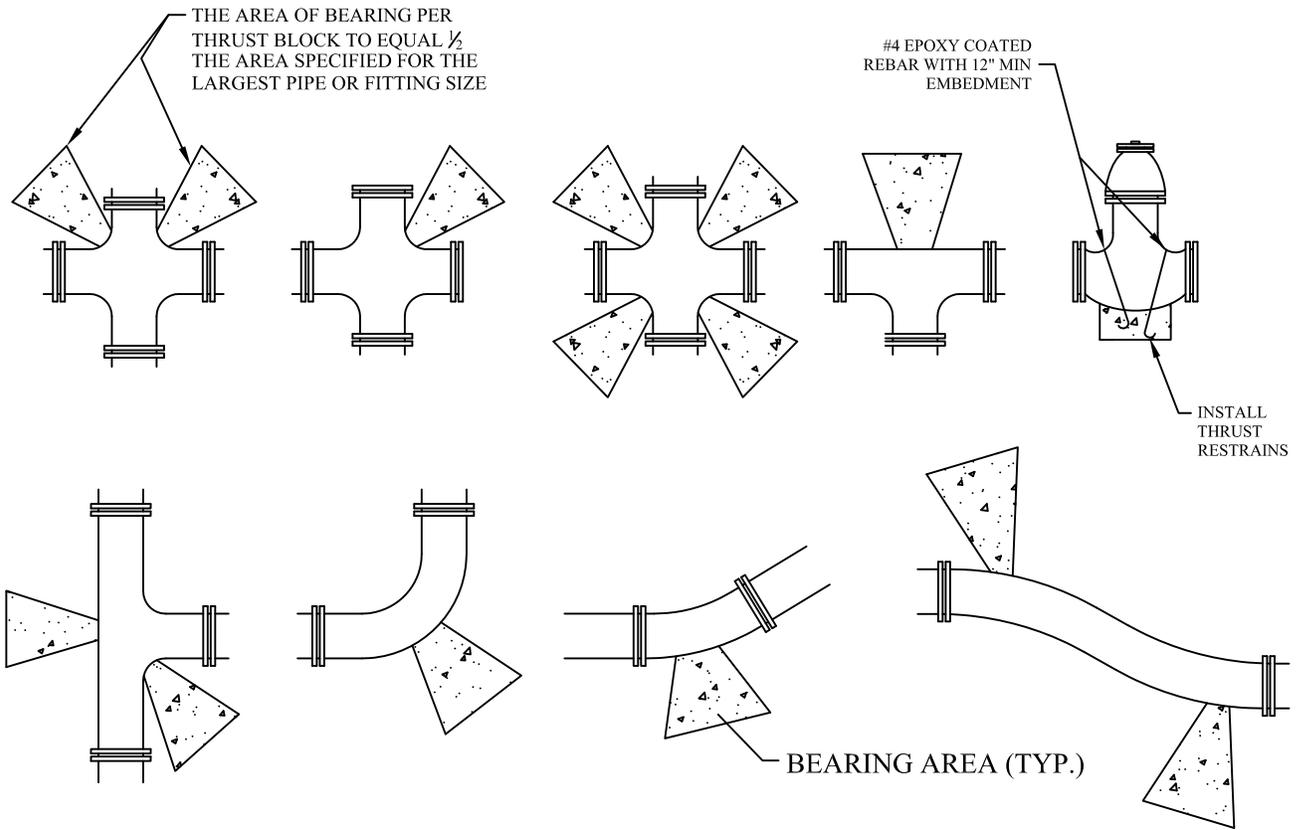


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			DATE 1/06
DATE	REVISIONS	BY	

VALVE BOX INSTALLATION

STANDARD
DRAWING
2005



NOT TO SCALE

NOTES:

1. INSPECTION: PRIOR TO BACKFILLING AROUND THRUST BLOCK, SECURE INSPECTIONS OF INSTALLATION BY ENGINEER OR CITY INSPECTOR.
2. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS.
3. CONCRETE: CLASS 2,000 MINIMUM. POUR CONCRETE AGAINST UNDISTURBED SOIL.
4. PIPE JOINTS: DO NOT COVER WITH CONCRETE. LEAVE COMPLETELY ACCESSIBLE.
5. GREASE: APPLY POLY-FM GREASE TO ALL BURIED METAL SURFACES. WRAP WITH 8 MIL THICK POLYETHYLENE SHEET AND TAPE WRAP.
6. SPECIAL CONSTRUCTION REQUIREMENTS:
 - A. THRUST DESIGN FOR PIPE SIZES OR CONFIGURATIONS NOT SHOWN REQUIRE SPECIAL DESIGN.
 - B. BEARING AREAS, VOLUMES, AND SPECIAL THRUST BLOCKING DETAILS SHOWN ON DRAWINGS TAKE PRECEDENCE OVER THIS PLAN.
 - C. REINFORCING STEEL BARS TO BE EPOXY COATED AT LEAST 15 MILS THICK. MINIMUM STRESS YIELD STRENGTH OF TIE DOWN BARS IS 70,000 PSI.
 - D. LOCKING RESTRAINT DEVICES MAY BE USED IN CONJUNCTION WITH CONCRETE THRUST BLOCKING (AT OPTION OF ENGINEER).
 - E. RESTRAINT SIZING IS BASED UPON A MAXIMUM OPERATING PRESSURE OF 150 PSI AND A TEST PRESSURE OF 200 PSI, AND A MINIMUM SOIL BEARING STRESS OF 2,000 PSF. OPERATING PRESSURES IN EXCESS OF 150 PSI OR SOILS WITH LESS THAN 2,000 POUND BEARING STRENGTH WILL REQUIRE SPECIAL DESIGN.
 - F. CONCRETE MUST BE ALLOWED TO CURE IN THRUST RESTRAINTS FOR 5 DAYS PRIOR TO PRESSURIZING WATER LINES OR HAVE ADDITIONAL APPROVED THRUST RESTRAINTS INSTALLED PRIOR TO PRESSURIZING THE WATER LINE.
7. MEGALUGS REQUIRED ON ALL FITTINGS

MINIMUM BEARING AREA IN SQ. FT.					
SIZE OF PIPE	TEES, VALVES DEAD ENDS	90° BENDS	45° BENDS	22 1/2° BENDS	11 1/4° BENDS
4"	2	3	2	2	2
6"	4	5.5	3	1.5	1
8"	6.5	9.5	5	2.75	1.5
12"	14	20	11	5.5	3
14"	19	26.5	14.5	7.5	4
16"	24	34	18.5	9.5	6
20"	27	52	28.5	14.5	16
24"	53	74	41	21	53
30"	81	114	62	32	16

PREPARED BY: _____



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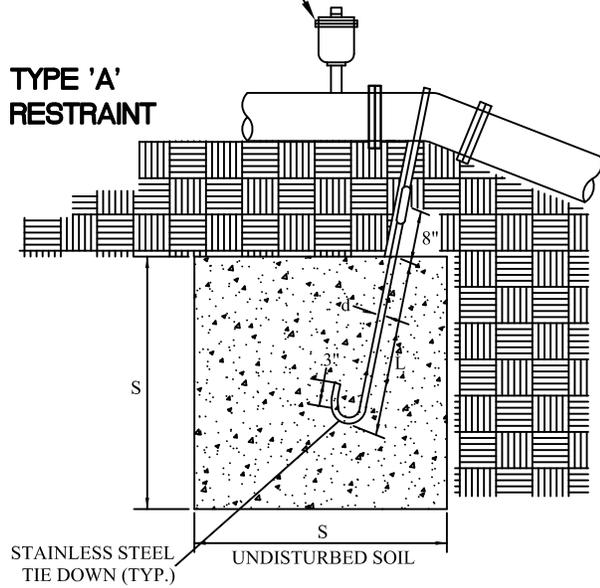
			DRAWN:
			DATE:
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**DIRECT BEARING THRUST
BLOCKS / TIE DOWN RESTRAINTS**

STANDARD
DRAWING
2006

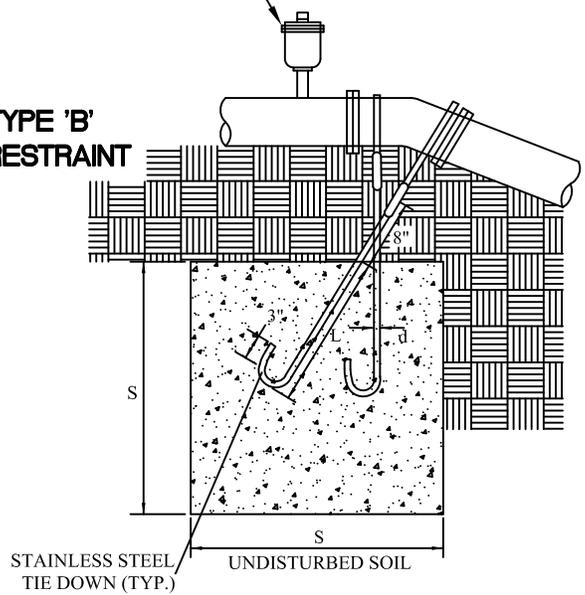
2" COMBINATION AIR & VACUUM VALVE AND AIR RELEASE VALVE WHEN LOOP IS REQUIRED

TYPE 'A' RESTRAINT



2" COMBINATION AIR & VACUUM VALVE AND AIR RELEASE VALVE WHEN LOOP IS REQUIRED

TYPE 'B' RESTRAINT



NOT TO SCALE

TYPE 'A' RESTRAINT

FOR 11 1/4°-22 1/2° VERTICAL BENDS

TABLE OF DIMENSIONS					
	VB		S	d	L
PIPE SIZE NOMIN. DIAMETER - INCH	VERTICAL BEND DEGREES	NO. OF CU FT. OF CONC. BLOCKING	SIDE OF CUBE FEET	DIAMETER OF SHACK OR REBAR RODS - INCH	DEPTH OF RODS IN CONCRETE FT.
4"	11 1/4°	8	2.0	5/8"	1.5
	22 1/2°	15.6	2.5	5/8"	2.0
6"	11 1/4°	15.6	2.5	5/8"	2.0
	22 1/2°	34.3	3.25	5/8"	2.0
8"	11 1/4°	27	3.0	5/8"	2.0
	22 1/2°	64	4.0	5/8"	2.0
12"	11 1/4°	64	4.0	3/4"	2.0
	22 1/2°	125	5.0	3/4"	3.0
16"	11 1/4°	107	4.25	7/8"	3.0
	22 1/2°	216	6.0	7/8"	4.0
20"	11 1/4°	138	5.17	1"	3.5
	22 1/2°	334	6.94	1"	4.0
24"	11 1/4°	240	6.22	1"	4.0
	22 1/2°	476	7.81	1"	4.0
30"	11 1/4°	369	7.17	1"	4.0
	22 1/2°	733	9.02	1"	4.0

TYPE 'B' RESTRAINT

FOR 45° VERTICAL BENDS

TABLE OF DIMENSIONS					
	VB		S	d	L
PIPE SIZE NOMIN. DIAMETER - INCH	VERTICAL BEND DEGREES	NO. OF CU FT. OF CONC. BLOCKING	SIDE OF CUBE FEET	DIAMETER OF SHACK OR REBAR RODS - INCH	DEPTH OF RODS IN CONCRETE FT.
4"	45°	1	3.0	5/8"	2.0
				5/8"	
6"	45°	2.37	4.0	5/8"	2.5
				5/8"	
8"	45°	3.97	4.75	5/8"	2.0
				5/8"	
12"	45°	9.04	6.25	5/8"	4.0
				5/8"	
16"	45°	17.24	7.75	3/4"	4.0
				3/4"	
20"	45°	26.52	8.95	3/4"	4.0
				3/4"	
24"	45°	37.82	10.07	3/4"	4.0
				3/4"	
30"	45°	58.26	11.63	3/4"	4.0
				3/4"	

PREPARED BY: _____

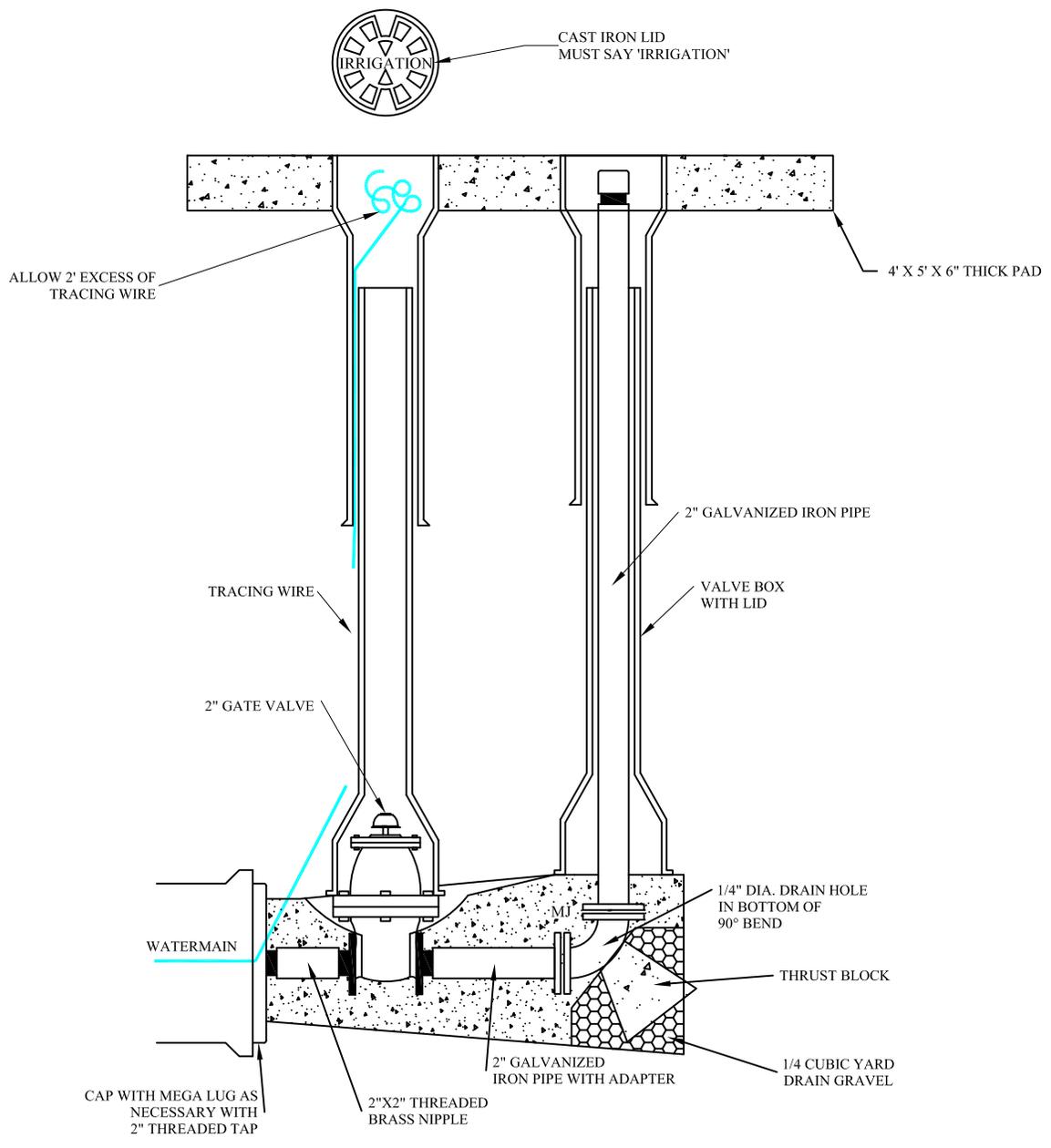


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DATE	REVISIONS	BY	

TIE DOWN THRUST RESTRAINTS

STANDARD DRAWING
2007



NOT TO SCALE

NOTES:

1. INSPECTION: PRIOR TO BACKFILLING AROUND THRUST BLOCK, SECURE INSPECTION OF INSTALLATION BY CITY ENGINEER.
2. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS.
3. CONCRETE: CLASS 2,000 MINIMUM. POUR CONCRETE AGAINST UNDISTURBED SOIL. THRUST BLOCK MUST MEET APWA.
4. TAPE: APPLY TAPE WRAP TO THE EXTERIOR OF ALL GALVANIZED PIPE PER AWWA C209
5. SPECIAL DESIGN: WATERMAINS 12" AND LARGER WILL REQUIRE SPECIAL WASHOUT ASSEMBLY DESIGN.
6. DRAINAGE: AFTER INSTALLATION OF WASHOUT VALVE ASSEMBLY, VERIFY THE WASHOUT VALVE RISER DRAINS TO GRAVEL.
7. WRAP ALL FOOTINGS PRIOR TO PLACEMENT OF THRUST BLOCKING

PREPARED BY: _____

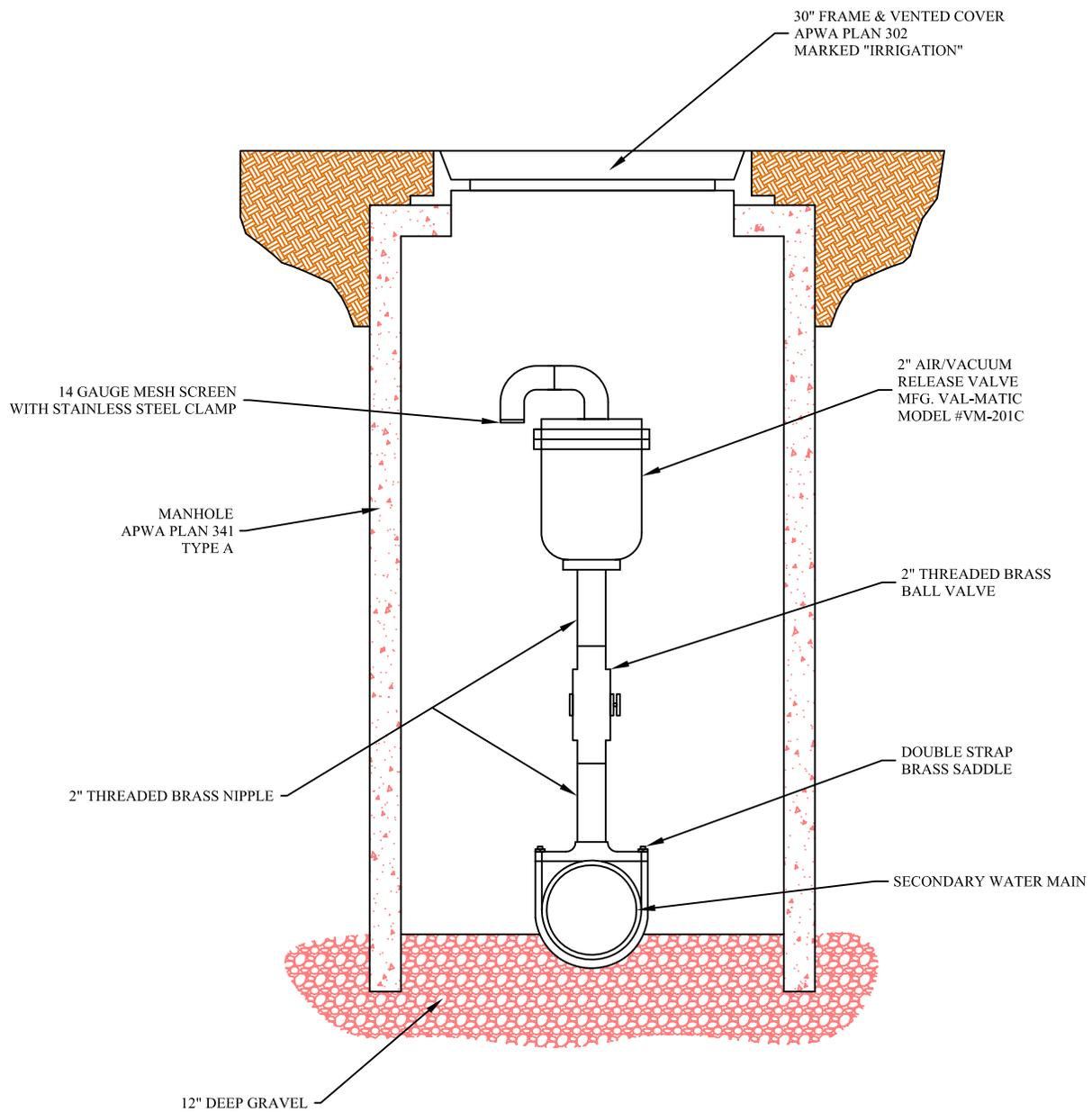


SOUTH JORDAN CITY

			DRAWN:
			DATE
DATE	REVISIONS	BY	

WASHOUT VALVE ASSEMBLY

STANDARD
DRAWING
2008



NOT TO SCALE



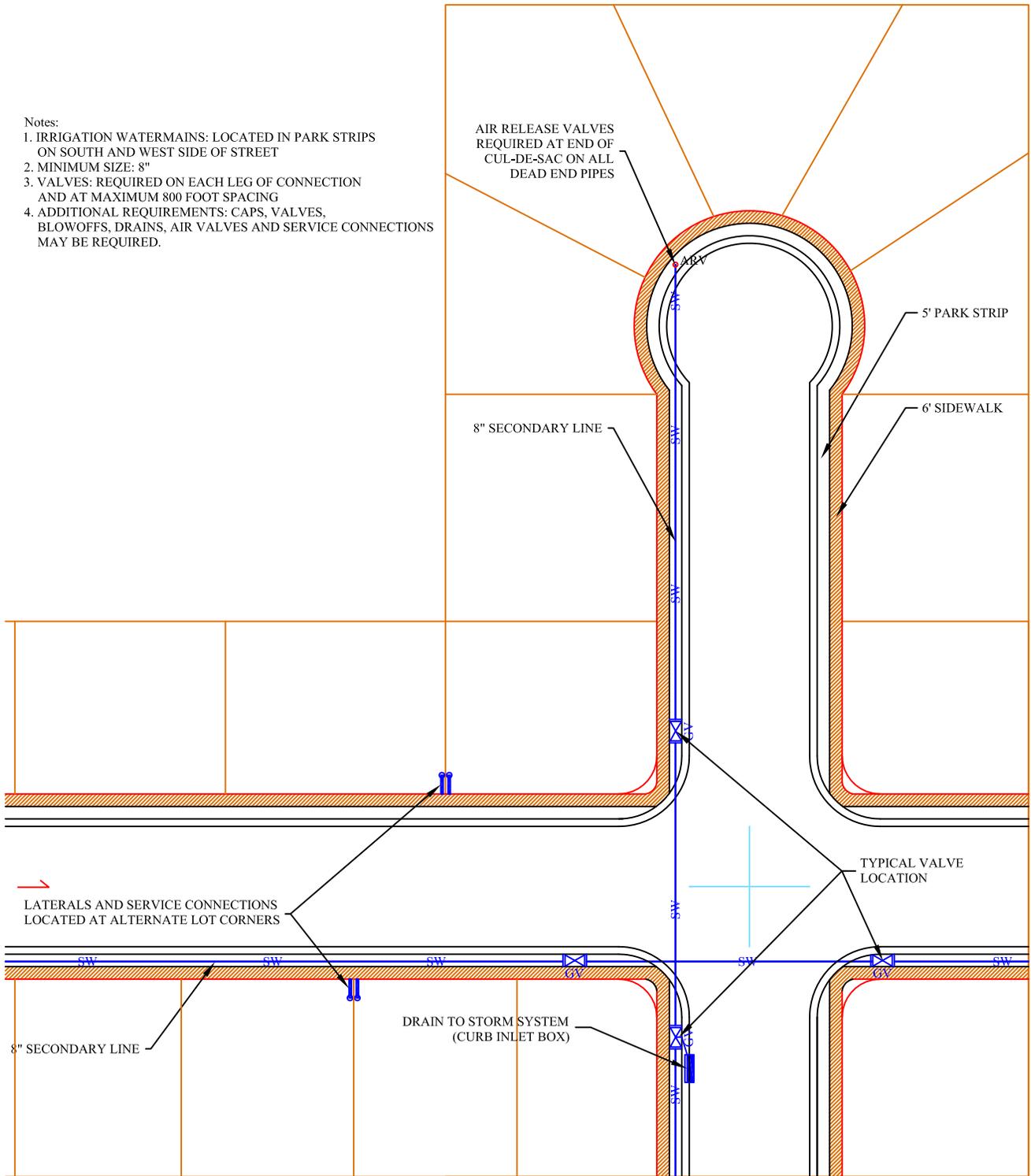
SOUTH JORDAN CITY

DATE	REVISIONS	BY	DRAWN: AP
			DATE: 02/08

SECONDARY WATER
2" AIR/VACUUM RELEASE VALVE

STANDARD
DRAWING
2010

- Notes:
1. IRRIGATION WATERMAINS: LOCATED IN PARK STRIPS ON SOUTH AND WEST SIDE OF STREET
 2. MINIMUM SIZE: 8"
 3. VALVES: REQUIRED ON EACH LEG OF CONNECTION AND AT MAXIMUM 800 FOOT SPACING
 4. ADDITIONAL REQUIREMENTS: CAPS, VALVES, BLOWOFFS, DRAINS, AIR VALVES AND SERVICE CONNECTIONS MAY BE REQUIRED.



NOT TO SCALE

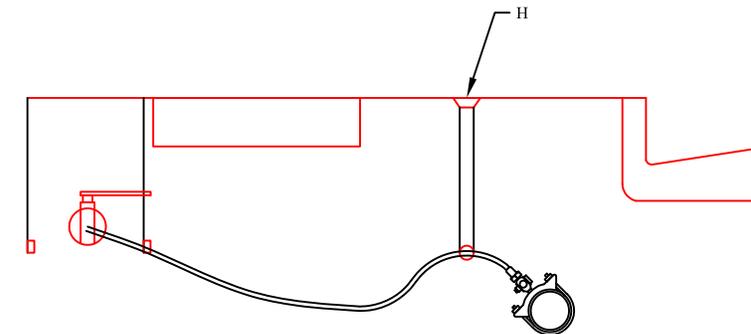
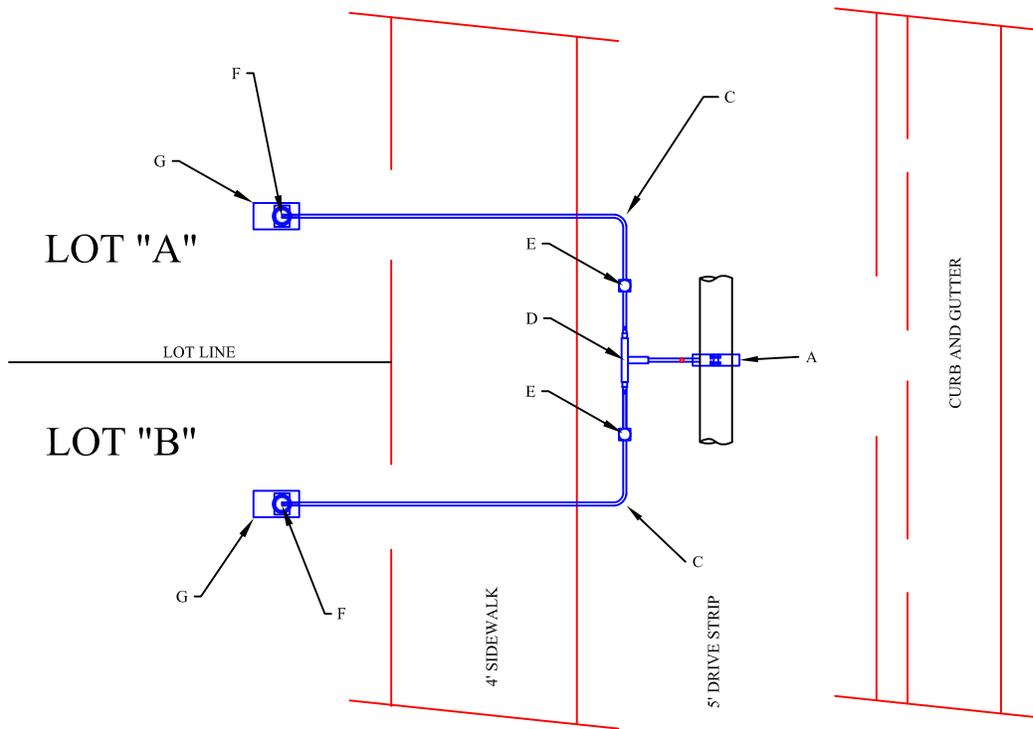


SOUTH JORDAN CITY

			DRAWN: AP
			DATE: 02/08
DATE	REVISIONS	BY	

SECONDARY RESIDENTIAL
INSTALLATION

STANDARD
DRAWING
2011



SIZE	DESCRIPTION	SIZE	COMMENTS
A	TAPPING SADDLE	VARIES	BRASS DOUBLE STRAP SADDLE
C	POLY PIPE	1"	IPS, PURPLE SDR 9
D	TEE AND REDUCERS	2"	BRASS
E	STOP AND WASTE VALVE W/ BOX	1"	BRASS DOUBLE STRAP SADDLE
F	BALL VALVE	1"	BALVE VALVE w/ HANDLE AND LOCKOUT
G	SERVICE BOX	12" x 18"	IRRIGATION CONTROL VALVE BOX
H	2" PVC REISER w/ CAST IRON LID	1"	BRASS

NOT TO SCALE

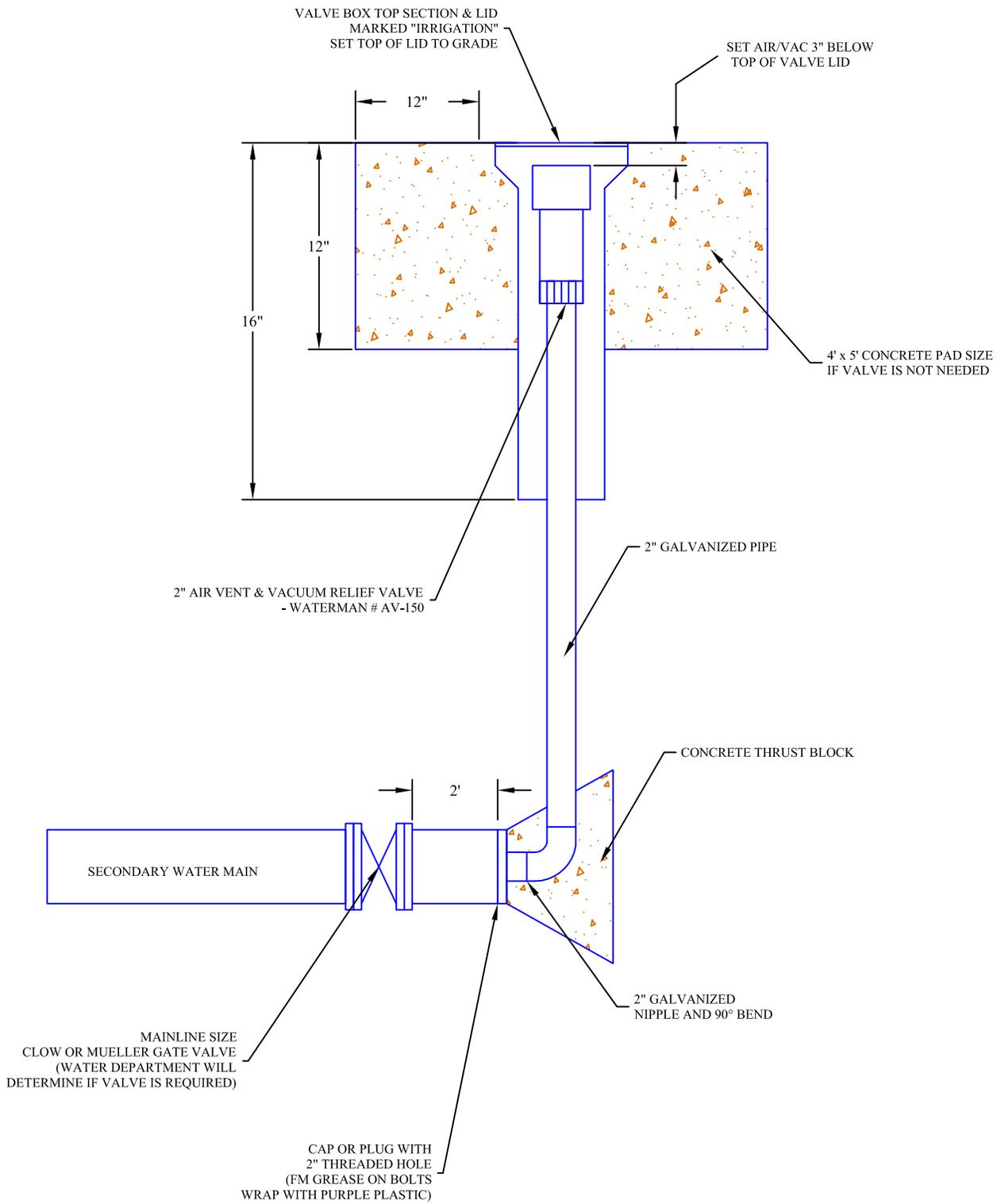


SOUTH JORDAN CITY

DATE	REVISIONS	BY	DRAWN: AP
			DATE: 02/08

**SECONDARY WATER
SERVICE CONNECTION**

STANDARD
DRAWING
2012

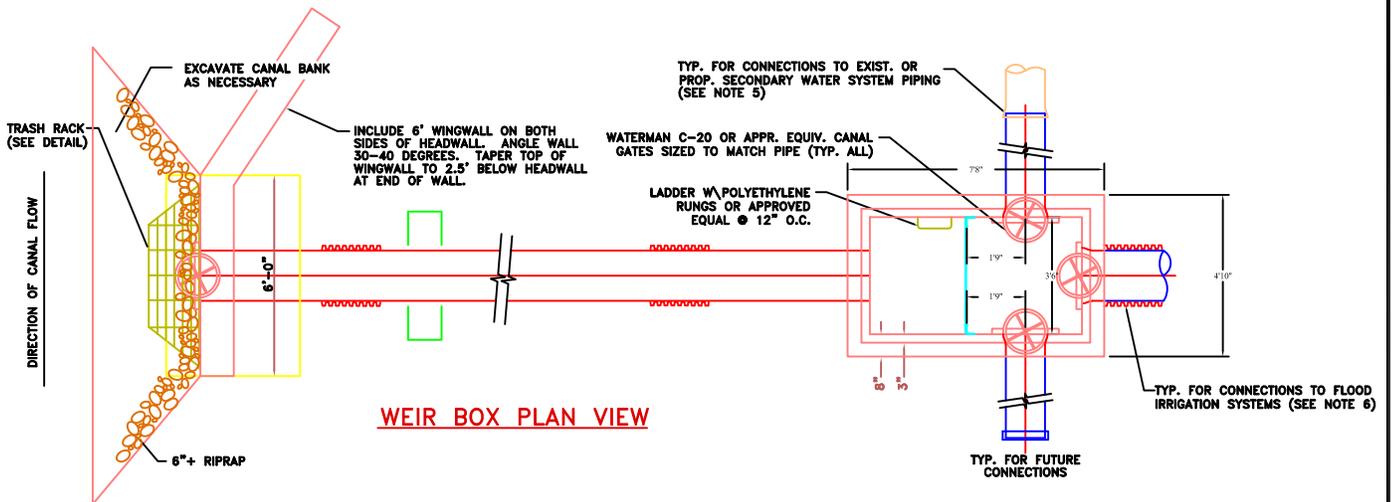
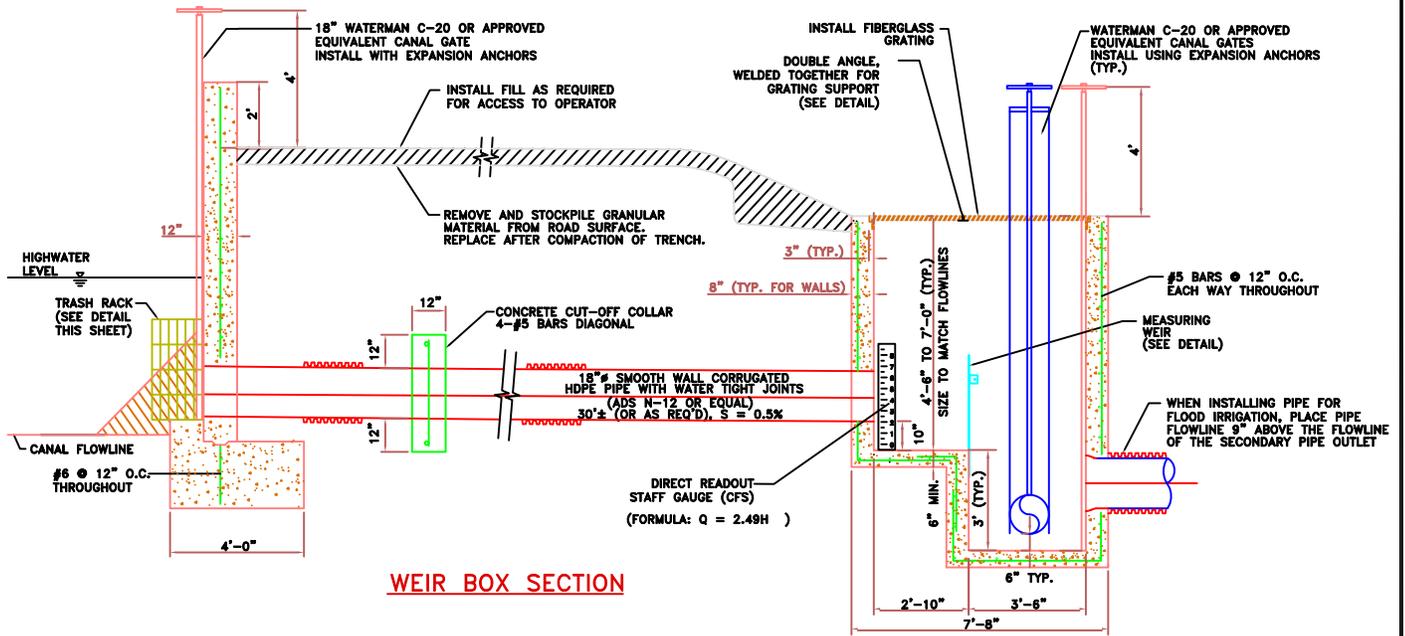


NOT TO SCALE



SOUTH JORDAN CITY

			DRAWN: AP	SECONDARY WATER MAIN LINE DEAD END 2" AIR/VACUUM RELEASE VALVE	STANDARD DRAWING 2013
			DATE: 02/08		
DATE	REVISIONS	BY			



NOT TO SCALE

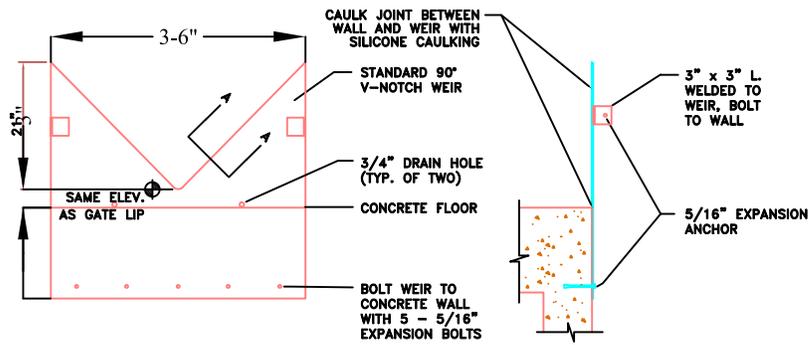


SOUTH JORDAN CITY

DATE	REVISIONS	BY	DRAWN: TB
			DATE: 11/07

**PRESSURE IRRIGATION
CANAL GATE AND WEIR BOX**

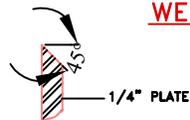
STANDARD
DRAWING
2014



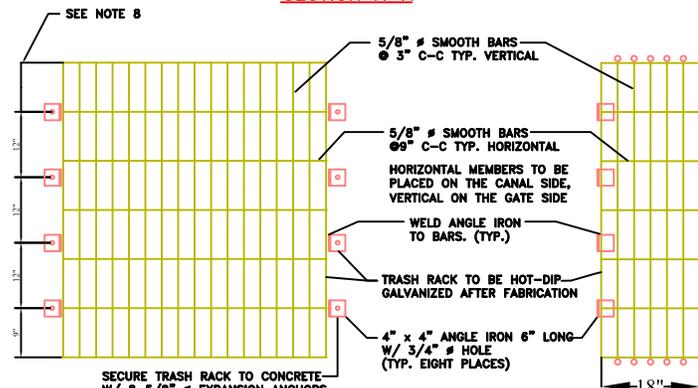
WEIR FRONT VIEW

WEIR SIDE VIEW

NOTE:
WEIR TO BE HOT-DIP GALVANIZED AFTER FABRICATION



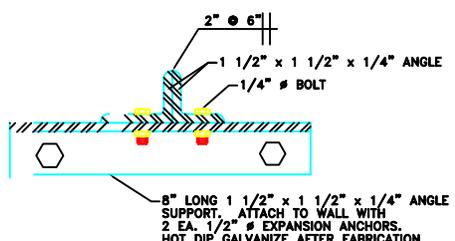
SECTION A-A



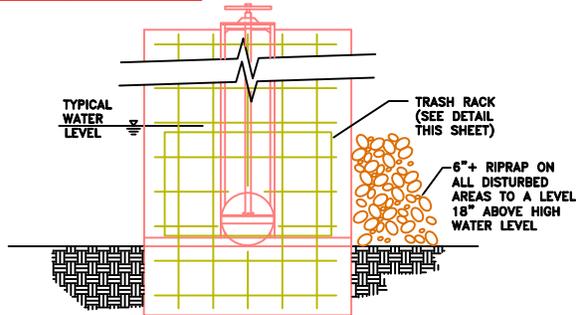
FRONT VIEW

SIDE VIEW

TRASH RACK DETAILS



DOUBLE-ANGLE GRATING SUPPORT DETAIL

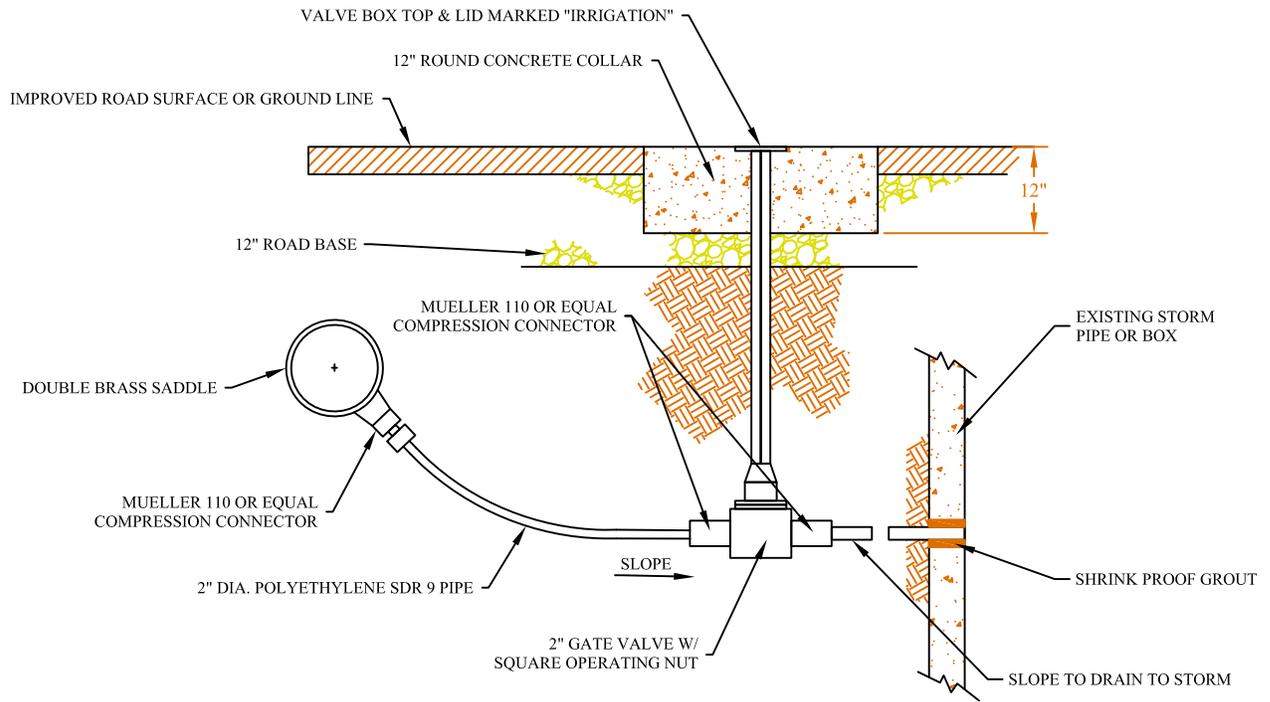


SLIDE GATE DETAIL
N.T.S.

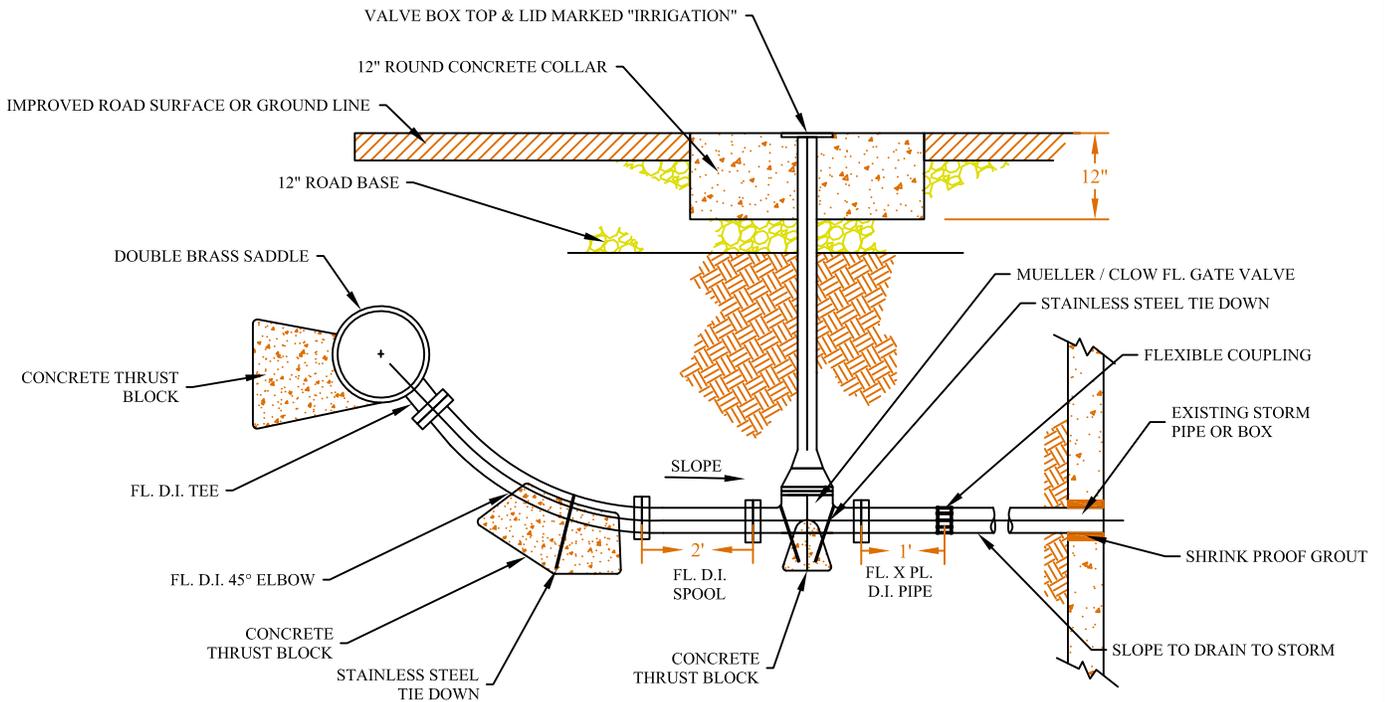
NOT TO SCALE



SOUTH JORDAN CITY			
		DRAWN: TB	PRESSURE IRRIGATION CANAL GATE AND WEIR BOX
		DATE: 11/07	
DATE	REVISIONS	BY	STANDARD DRAWING 2015



2" DRAIN VALVE DETAIL
NOT TO SCALE



4" DRAIN VALVE DETAIL
NOT TO SCALE



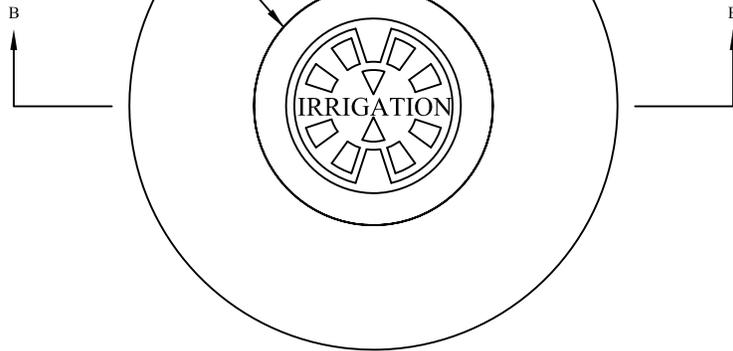
SOUTH JORDAN CITY

			DRAWN: AP
			DATE: 02/08
DATE	REVISIONS	BY	

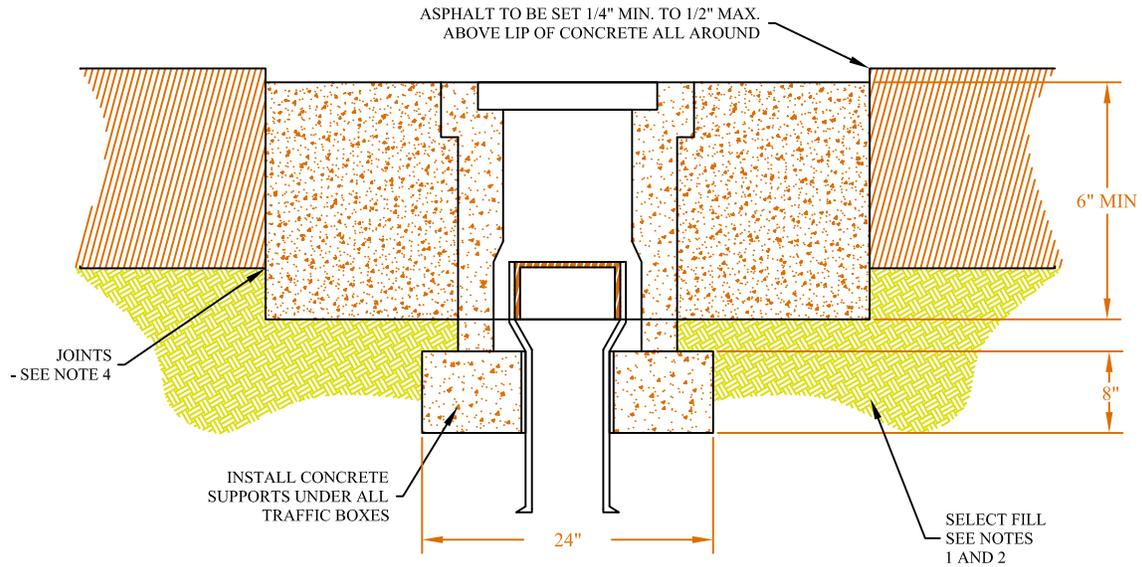
2" AND 4" DRAIN VALVE DETAIL

STANDARD
DRAWING
2016

6" MINIMUM
CONCRETE COLLAR
(FOR VALVES AND
VAULTS IN CONCRETE)



PLAN VIEW
NOT TO SCALE



SECTION B-B
NOT TO SCALE

NOTES

1. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS.
2. SELECT FILL: USE UNTREATED BASE COURSE GRADE 3/4" MAXIMUM PER SPECIFICATONS. USE OF SEWER ROCK OR RECYCLED AGGREGATE REQUIRES ENGINEER'S WRITTEN APPROVAL.
3. CONCRETE: CLASS 4,000. APPLY A SEALING/COURING COMPOUND PER SPECIFICATONS.
4. JOINTS: PROVIDE A NEAT STRAIGHT JOINT BETWEEN EXISTING AND NEW ASPHALT CONCRETE SURFACES. PROVIDE CONCENTRIC CIRCLE CUT. CLEAN EDGES OF ALL DIRT, OIL AND LOOSE DEBRIS.

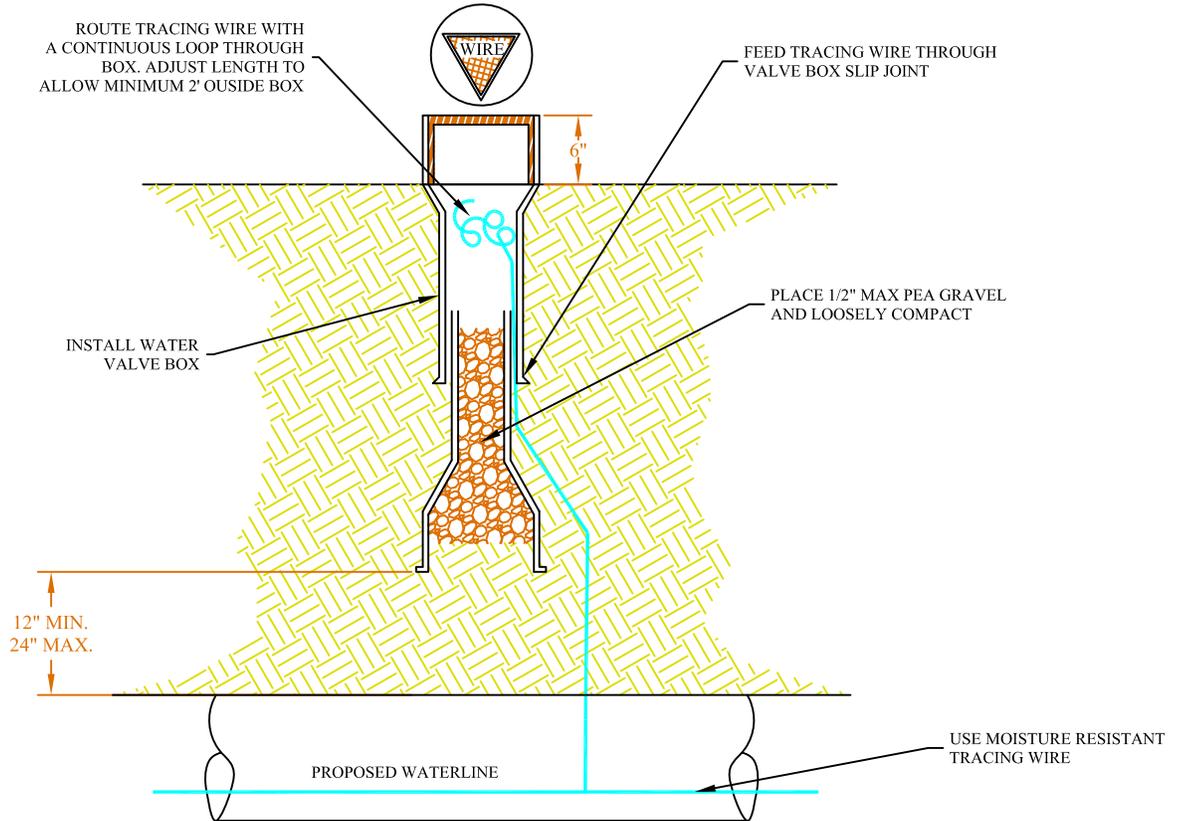


SOUTH JORDAN CITY

			DRAWN: AP
			DATE: 02/08
DATE	REVISIONS	BY	

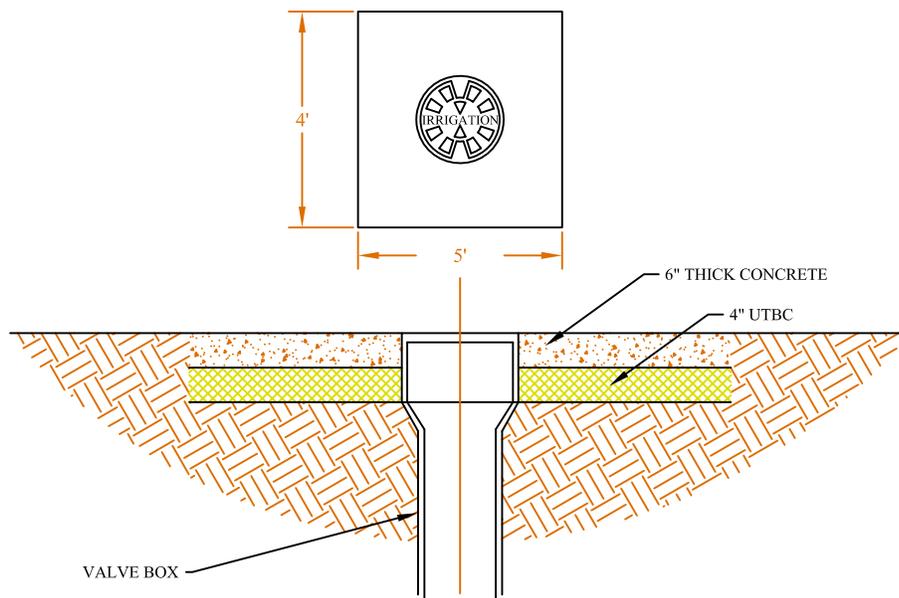
**COVER COLLAR
(IN PAVEMENT)**

STANDARD
DRAWING
2017



WATERLINE TRACING LINE ACCESS DETAIL

NOT TO SCALE



VALVE PAD (OUTSIDE PAVEMENT)

NOT TO SCALE

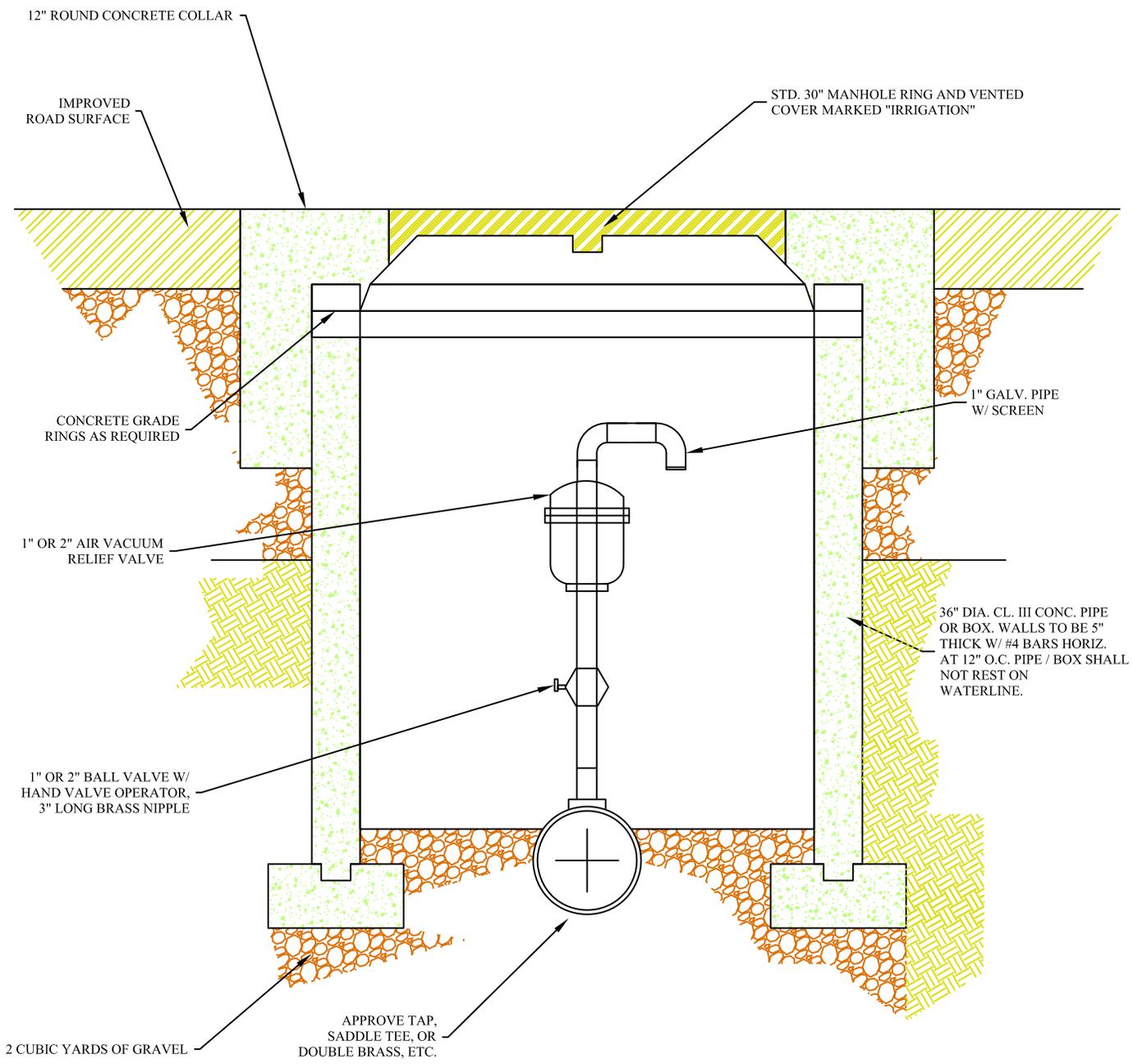


SOUTH JORDAN CITY

			DRAWN: AP
			DATE: 02/08
DATE	REVISIONS	BY	

TRACING LINE AND VALVE PAD
DETAILS

STANDARD
DRAWING
2018



NOT TO SCALE

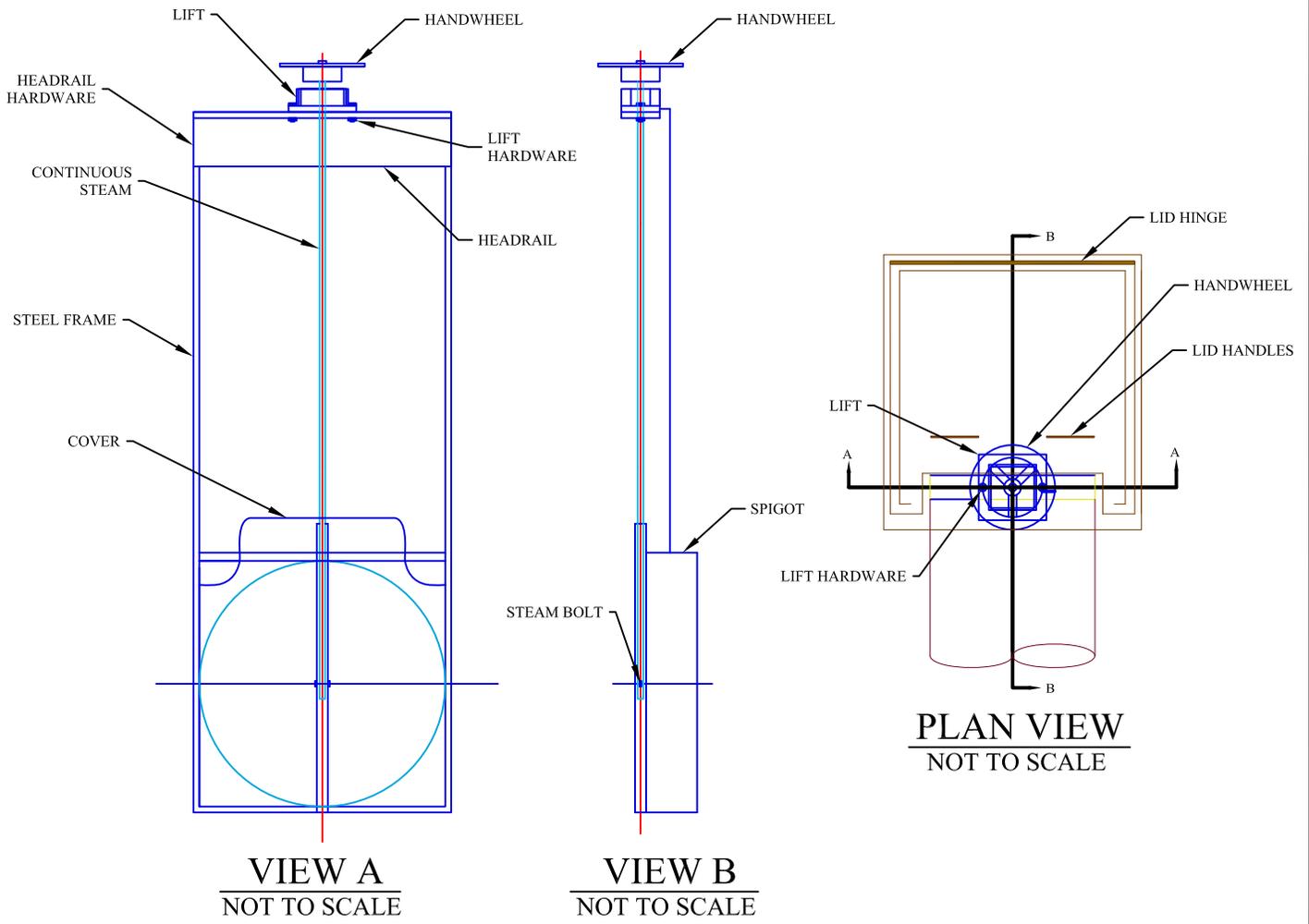
NOTES

1. WHERE 1" AIR VACUUM RELIEF VALVE IS SHOWN USE 1" THR. BRASS FITTINGS AND A 1" PLUG OR GATE GATE VALVE. MAIN LINE IS TO BE TAPPED IN A MANNER APPROVED BY THE ENGINEER.
2. WHERE 2" AIR VACUUM RELIEF VALVE SHOWN USE 2" PLUG VALVE. MAIN LINE CONNECTION TO BE MADE WITH A STANDARD TEE.



SOUTH JORDAN CITY

			DRAWN: AP	1" AND 2" AIR VACUUM RELIEF VALVE DETAIL	STANDARD DRAWING 2019
			DATE: 02/08		
DATE	REVISIONS	BY			



NOTES

1. MANUFACTURER: WATERMAN INDUSTRIES, INC.
2. MATERIAL: ALUMINUM OR STAINLESS STEEL
3. IRRIGATION COMPANY MUST APPROVE.

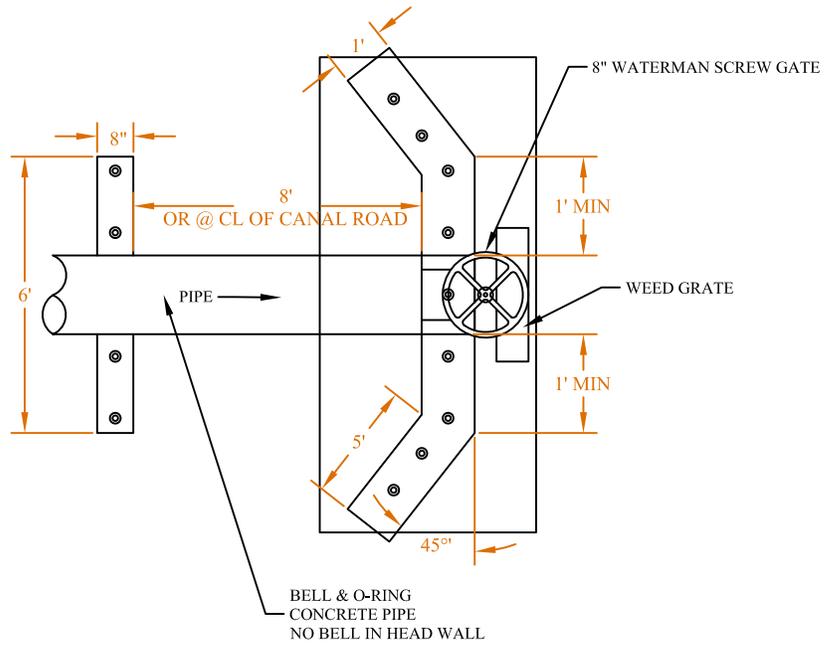


SOUTH JORDAN CITY

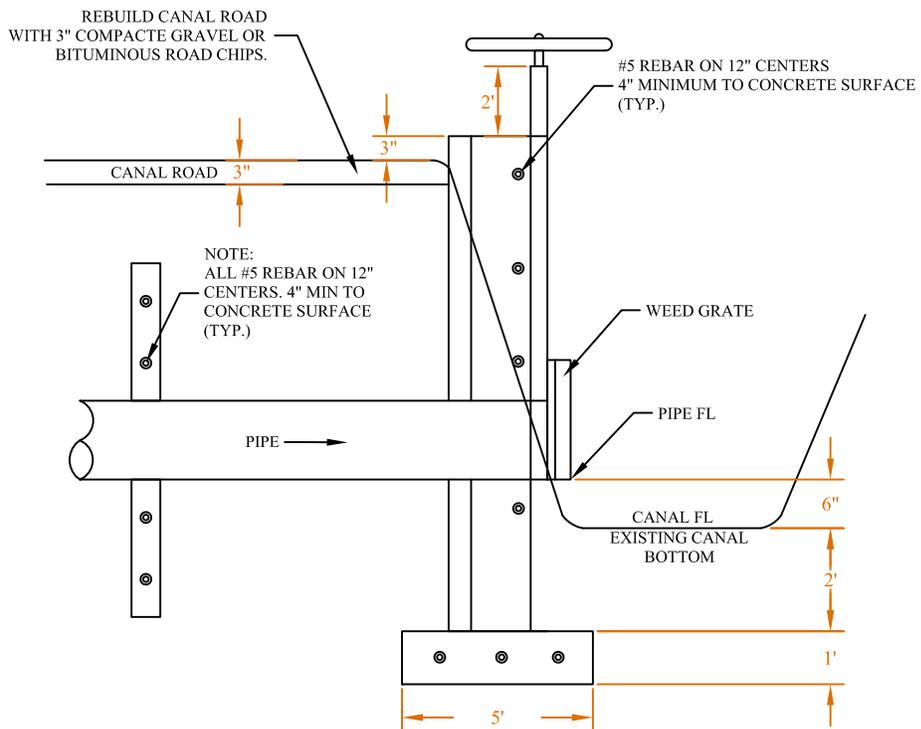
			DRAWN: AP
			DATE: 02/08
DATE	REVISIONS	BY	

**IRRIGATION SLIDE GATE
DETAIL**

STANDARD
DRAWING
2020



TOP VIEW
NOT TO SCALE



SIDE VIEW
NOT TO SCALE

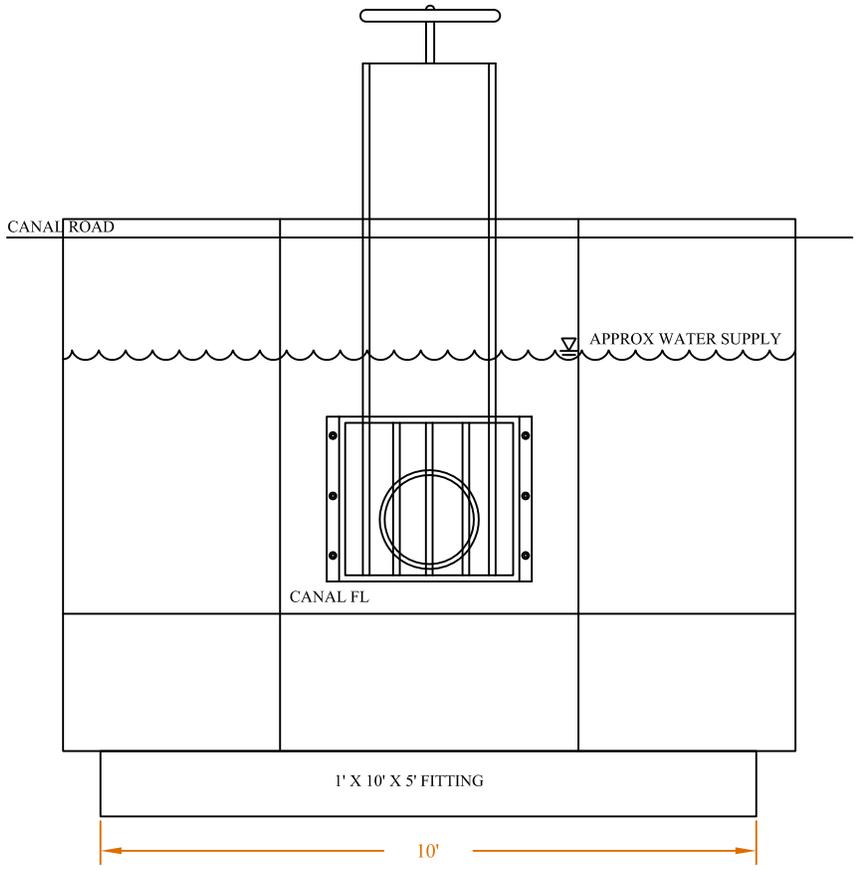


SOUTH JORDAN CITY

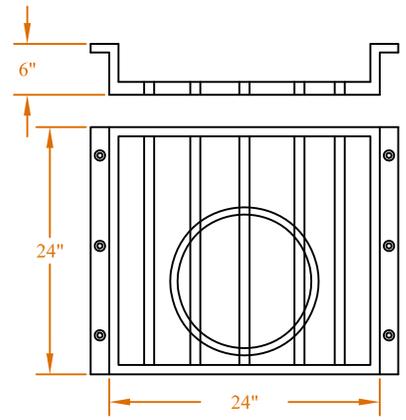
DATE	REVISIONS	BY	DRAWN: AP
			DATE: 02/08

HEADWALL DETAIL

STANDARD
DRAWING
2021



FRONT VIEW
NOT TO SCALE



WEED GRATE
NOT TO SCALE

NOTES

1. ALL ATTACHING BOLTS ARE TO BE 5/8" STAINLESS STEEL.
2. BACKFILL WITH IMPENETRABLE CLAY.
3. ALL MATERIALS AND WORK TO MEET UDOT STANDARDS 96% COMPACTION.
4. CONTROL OUTLET VELOCITY IN ORDER TO KEEP WATER FROM RUNNING OVER EXISTING CONCRETE BOX.
5. INSURANCE. THE CONTRACTOR WORKING ON THE CANAL SHALL OBTAIN AND MAINTAIN DURING THE CONSTRUCTION PERIOD, GENERAL LIABILITY INSURANCE IN THE AMOUNT OF AT LEAST \$1,000,000 (ONE MILLION DOLLARS FOR INJURY, DEATH, OR PROPERTY DAMAGE ARISING OUT OF A SINGLE OCCURRENCE AND WORKMAN'S COMPENSATION INSURANCE AS REQUIRED BY THE STATE OF UTAH. THE COMPANY SHALL REQUIRE THEIR INSURANCE
6. ALL WORK SHALL START AFTER OCTOBER 15TH AND BE COMPLETED BEFORE APRIL 1ST.

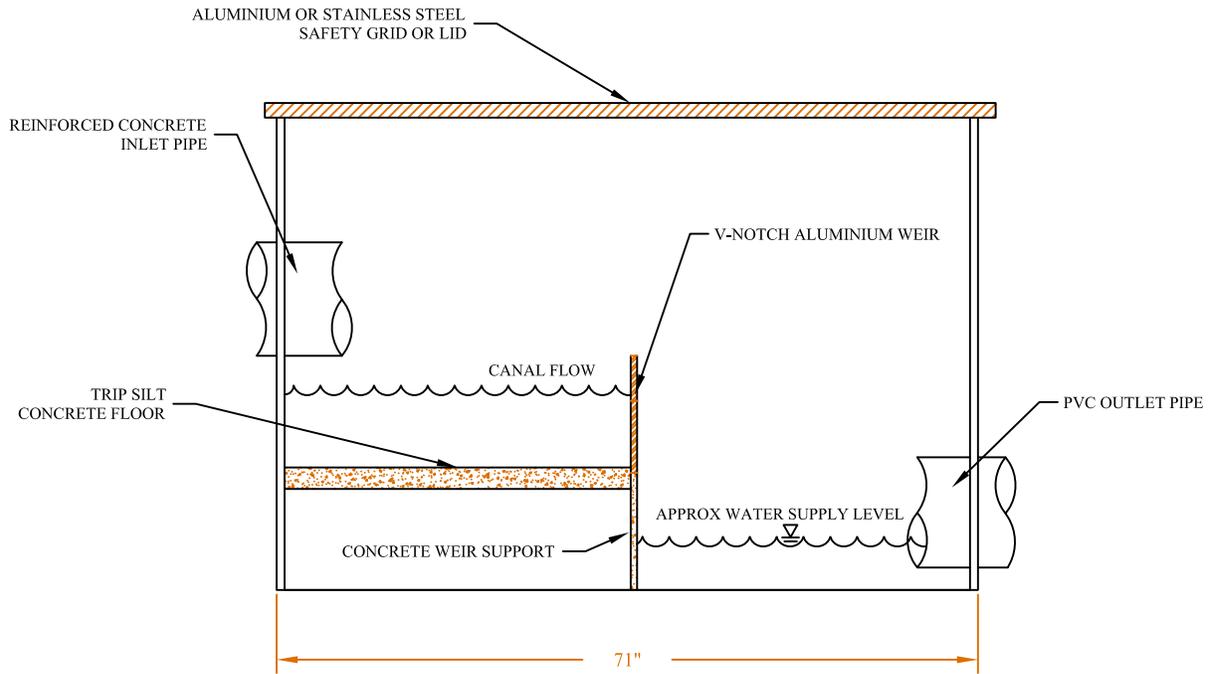


SOUTH JORDAN CITY

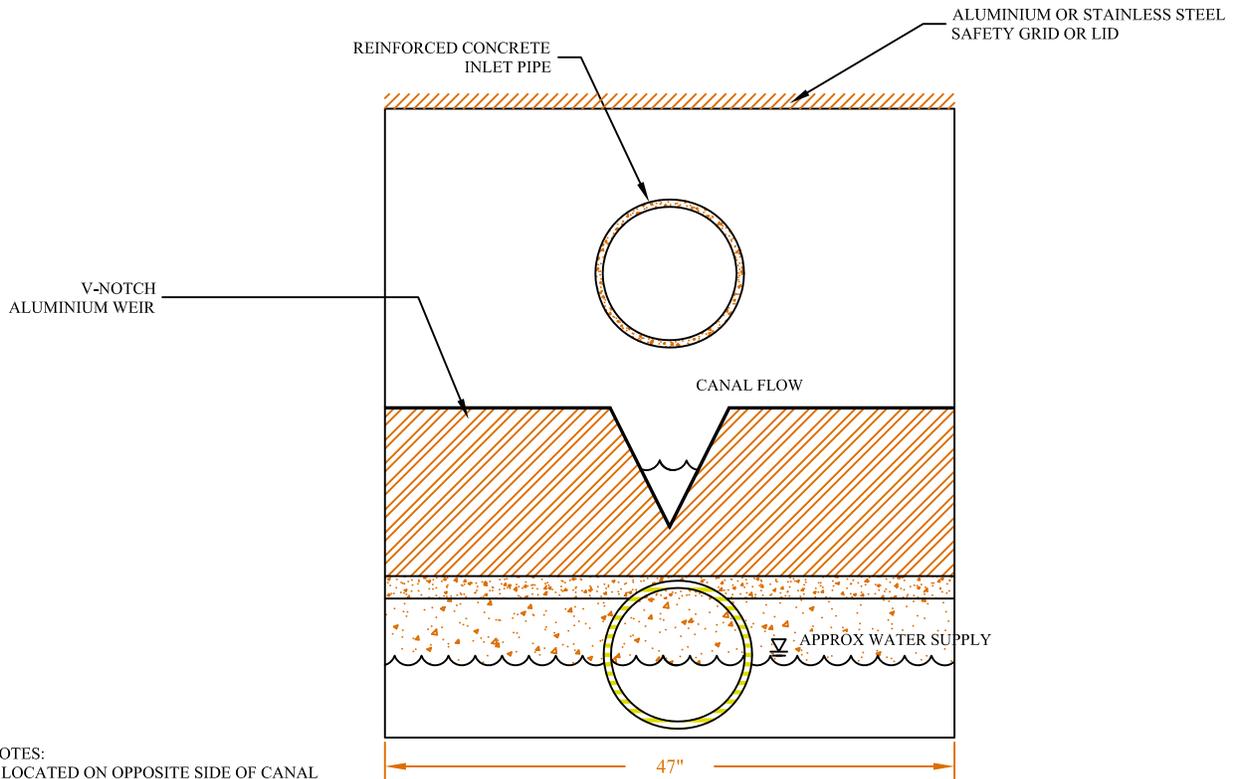
			DRAWN: AP
			DATE: 02/08
DATE	REVISIONS	BY	

HEADWALL DETAIL

STANDARD
DRAWING
2022



SIDE VIEW
NOT TO SCALE



FRONT VIEW
NOT TO SCALE

NOTES:
1. LOCATED ON OPPOSITE SIDE OF CANAL ROAD AS THE WEIR IS NOT ALLOWED IN BACKYARDS.



SOUTH JORDAN CITY

DATE	REVISIONS	BY	DRAWN: AP
			DATE: 02/08

SILT TRAP BOX DETAIL

STANDARD
DRAWING
2023

STORM DRAIN

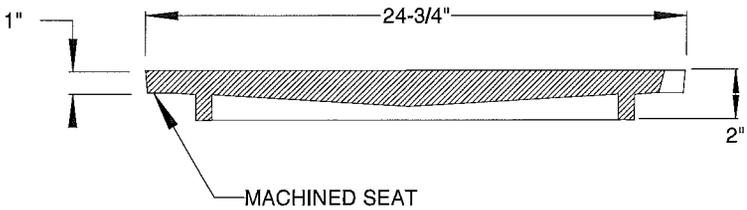
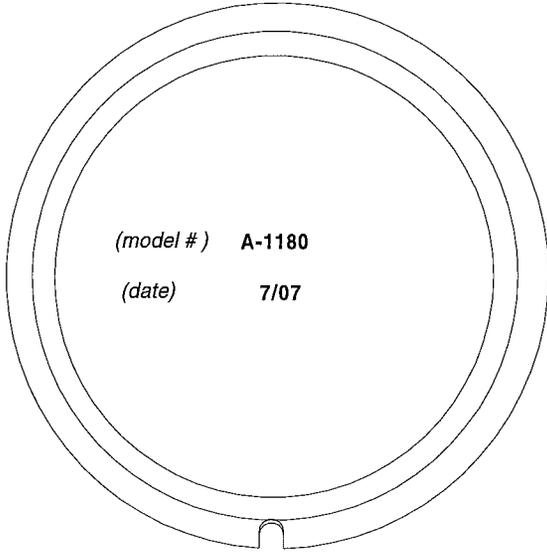
A-1180



SOUTH JORDAN
U T A H

Storm Drain Manhole Cover

(Platen-bottom cover)



COVER EXCEEDS A COMPRESSION TEST OF UP TO 50,000 LBS.

CAST IRON conforms to ASTM A-48-93 Class 35B Meets H-20 Wheel Loading	D&L model No. A-1180	D&L Foundry & Supply CA Sales: (707) 557-4525 Fax: (707) 557-4655 UT Sales: (801) 785-5015 Fax: (801) 785-0835 WA Sales: (509) 765-7952 Fax: (509) 765-8124
Designation: A-1180	Date: July 2007	Prepared by: Jesso Walker D&L Foundry & Supply Inc. (not to scale)

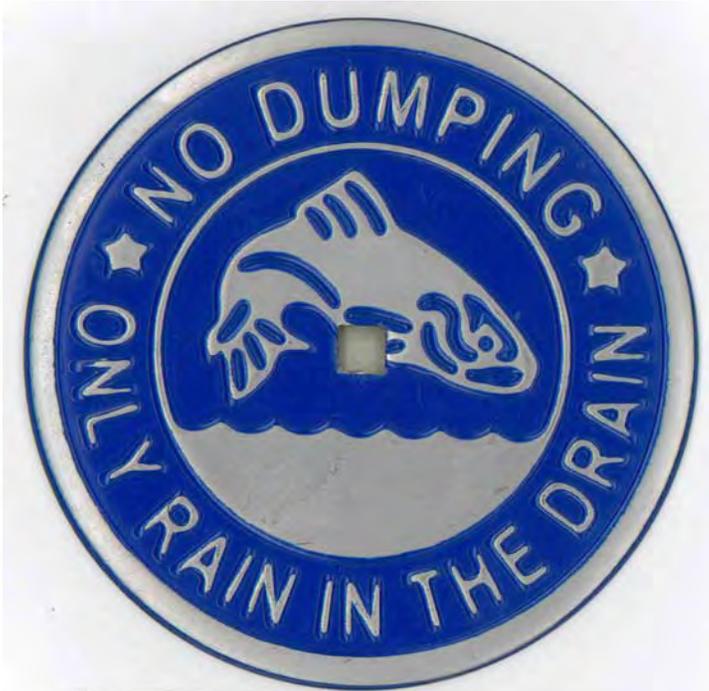
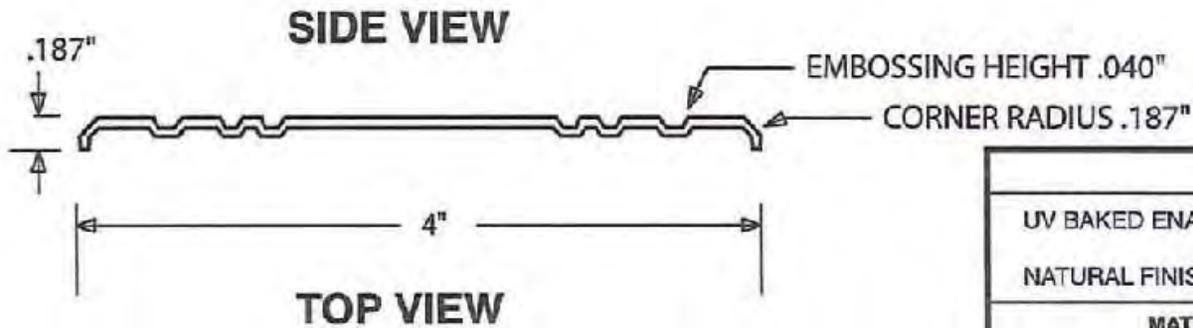


STORM DRAIN



SOUTH JORDAN
U T A H

Settled 1859



FINISH		
UV BAKED ENAMEL	-	1-2 COLOR OPTION
NATURAL FINISH		SAND BLASTED FRONT & REAR FOR PAINT & ADHESIVE BONDING
MATERIAL	THICKNESS	WEIGHT
304 ANNEALED STAINLESS STEEL	.062"	.218 LBS.
BRASS	.062"	.250 LBS.
ALUMINUM	.062"	.082 LBS.
ANODIZED ALUMINUM	.062"	.082 LBS.
LEGIBILITY WARRANTY		
STAINLESS STEEL & BRASS	-30 YEARS	
ALUMINUM & ANODIZED	-15 YEARS	
U.S. & FOREIGN PATENTS PENDING		
OPTIONS		
SQUARE HOLE: 1/4" X 1/4"		
SERIAL NOS.: .250" HIGH, MAX. 6 DIGITS		
ENGRAVING COPY: 3 LINES, 30 CHARACTERS		

ART APPROVAL FORM

This is our interpretation of your artwork requirements. Review for accuracy and note any changes you wish to make before signing this approval form.

NOTE: This art approval request form is required to begin the manufacturing process.

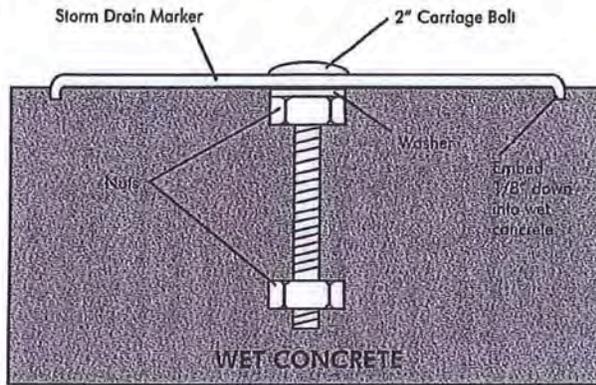
Approved as is	Submit new art with changes	Date

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ALMETEK INDUSTRIES, INC., ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ALMETEK INDUSTRIES, INC. IS PROHIBITED.	Customer: SOUTH JORDAN CITY	SHEET 1 OF 1 SCALE 1:1 ALMETEK 1-800-248-2080 Fax: 908-850-9618					
	Job Name: STDN-9131-SSP						
Date: AUGUST 29, 2007							
Drawn by:	DATE	REV. # 2	DATE 11/16/07	REV. #	DATE	REV. #	DATE

Theft-Resistant Permanent Installations for Storm Drain Markers 30-Year Warranty*

For Stainless, Brass, Aluminum and Anodized Aluminum

WET CONCRETE INSTALLATION

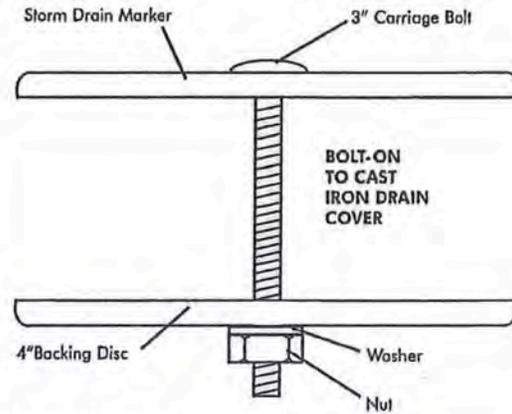


HARDWARE:

CB-2" Set:

- 1- 2" 1/4"-20 SS Carriage Bolt
- 1- 5/16" x 5/8" O.D. x .062" thick SS Washer
- 2- 1/4"-20 UNC SS Nuts

BOLT-ON INSTALLATION



HARDWARE:

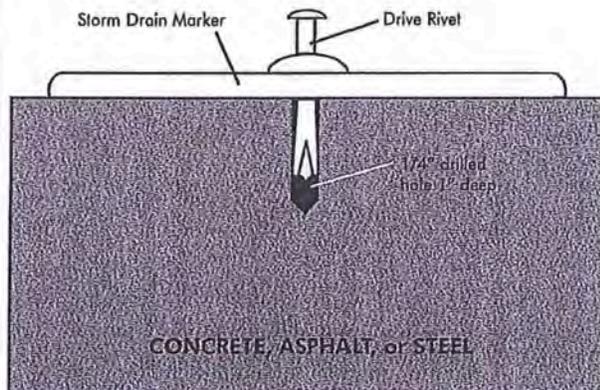
CB-3" Set:

- 1- 4" SS Backing Disc
- 1- 3" x 1/4"-20 SS Carriage Bolt
- 1- 5/16" x 5/8" O.D. x .062" thick SS Washer
- 1- 1/4"-20 UNC SS Nut

NOTE: All 4" Discs have square hole for carriage bolt insertion

* After the appropriate installation, if the Marker is stolen or missing, Almetek will replace the Marker and hardware at no cost.

SURFACE MOUNT INSTALLATION

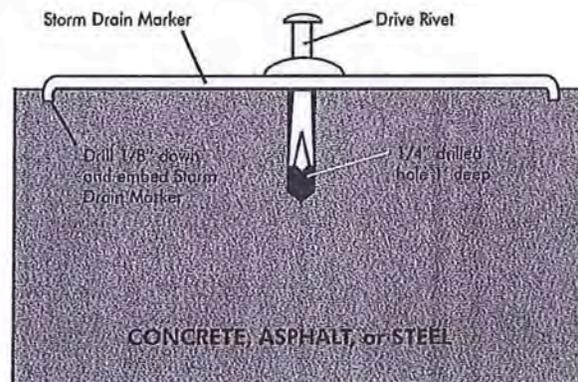


HARDWARE:

- 1-DR250-1/4" x 3/4" Drive Rivet-STD M
- 1-DB250-1/4" Carbide Drill Bit
- Hammer (not supplied)
- optional: adhesive

SUB-SURFACE MOUNT INSTALLATION

PATENT PENDING



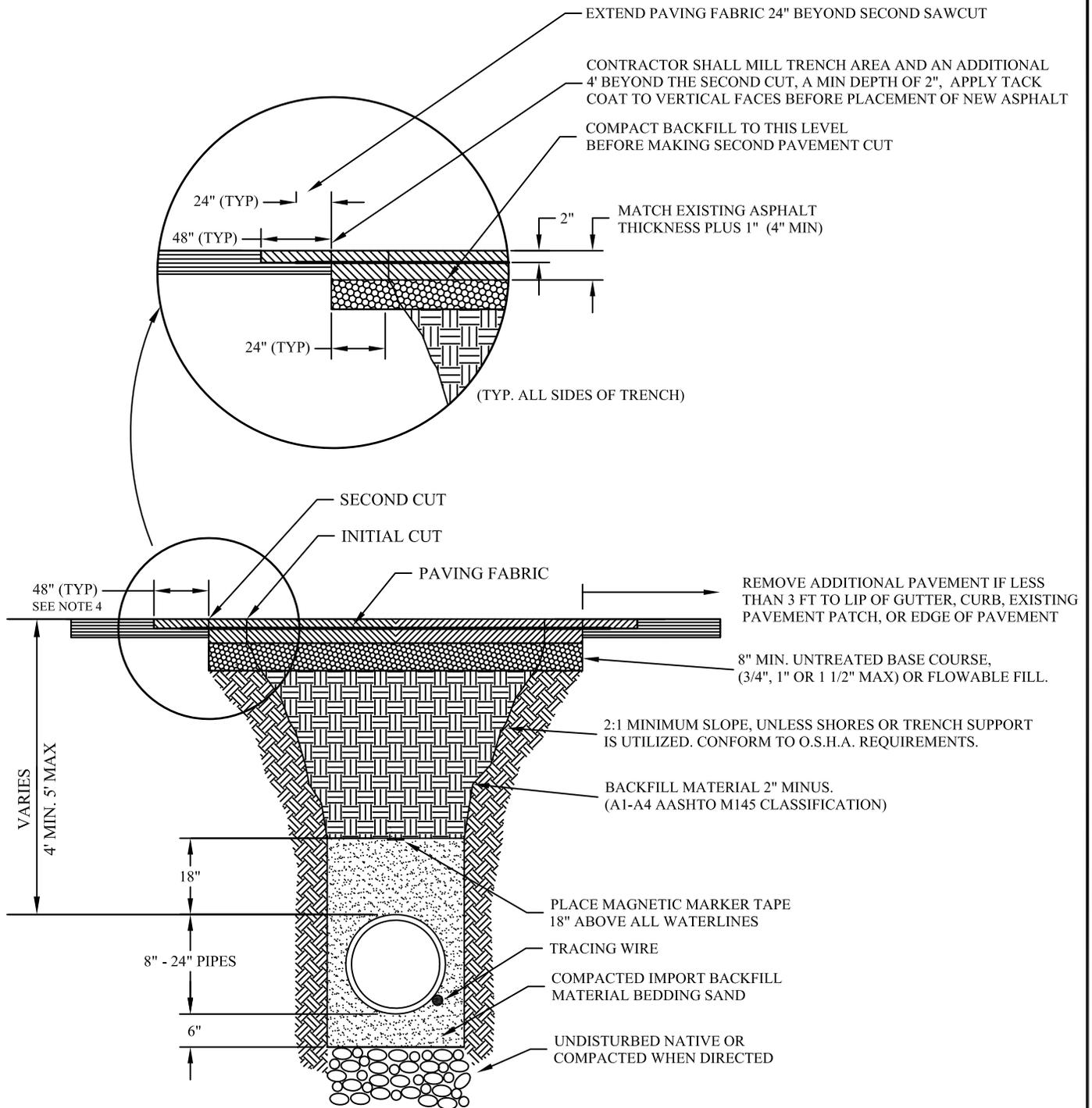
HARDWARE:

- 1-DR250-1/4" x 3/4" Drive Rivet- STD M
- 1-CDB-4-Carbide Drill Bit, Anchor, Pilot (not shown)
- Hammer (not supplied)
- optional: adhesive



Almetek Industries, Inc., 2 Joy Drive, Hackettstown, NJ 07840 • 908-850-9700 • Fax: 908-850-9618
www.almetek.com • email: csr@almetek.com

STREETS



NOTES:

1. NO SAW CUTS TO END UP IN THE WHEEL PATH
2. AFTER THE SECOND CUT, PATCH TRENCH UP TO THE EXISTING ROAD SURFACE THEN MILL THE TRENCH AREA AND AN ADDITIONAL 4 FT BEYOND THE SECOND CUT OR AS DIRECT BY THE CITY ENGINEER ACCORDING TO CITY STANDARDS.
3. PAVING FABRIC PER APWA STANDARD ROADWAY PAVEMENT GEOTEXTILE, NON-WOVEN
4. IF AGE OF ROAD IS LESS THAN 5 YRS, THE 48" WILL BE INCREASED TO FULL WIDTH OF ROAD, OR AS DETERMINED BY THE CITY ENGINEER OR DESIGNER.

PREPARED BY: _____

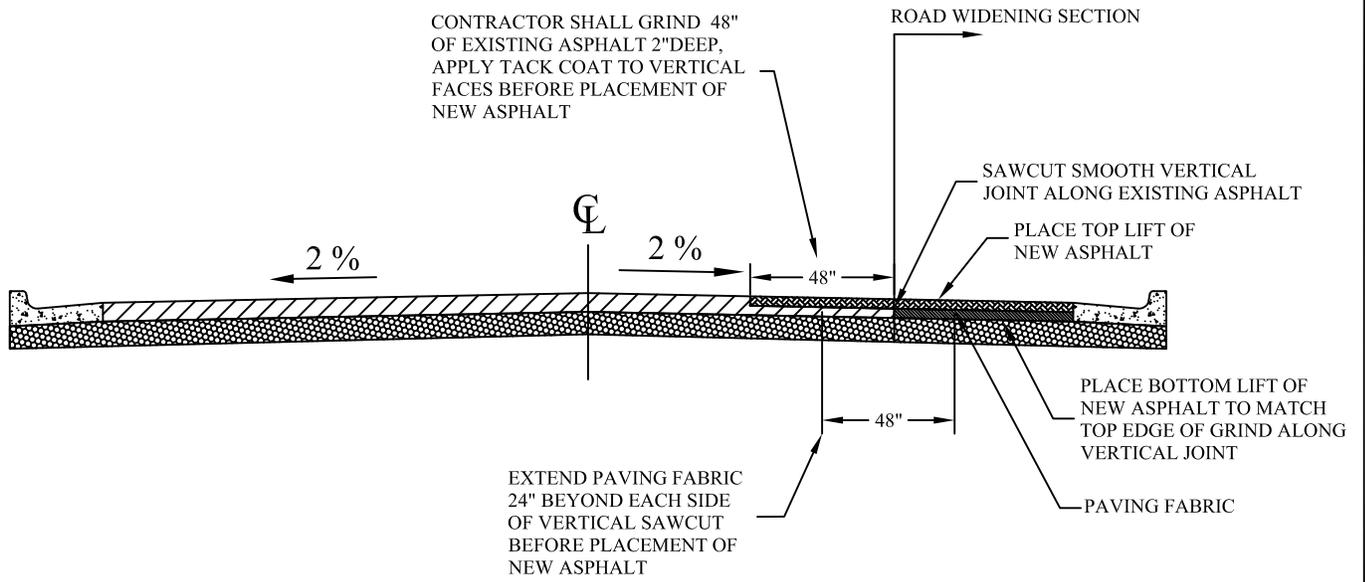


SOUTH JORDAN CITY

DATE	REVISIONS	BY	DRAWN
04/11		JRF	KS
			DATE
			1/06

**TRENCH CROSS SECTION
TERMINOLOGY & STANDARD SIZES**

STANDARD
DRAWING
3010



NOTE: PER CITY STREET REPAIR / REPAVING POLICY, IF CONSTRUCTION PLANS DO NOT REQUIRE REMOVAL OF EXISTING ROADWAY TO CENTERLINE CONTRACTOR SHALL JOIN NEW PAVEMENT PER THIS STANDARD



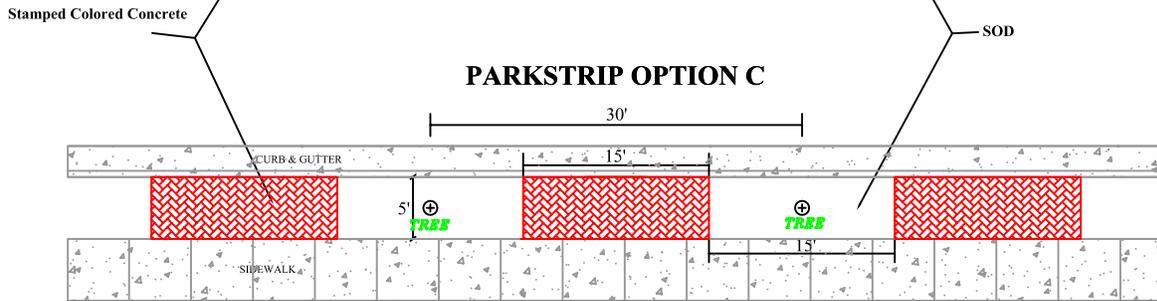
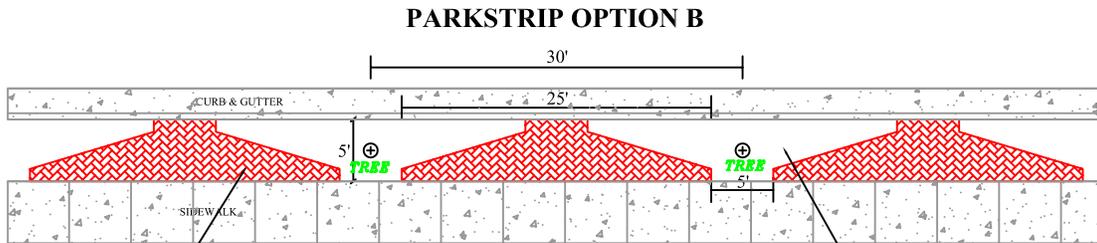
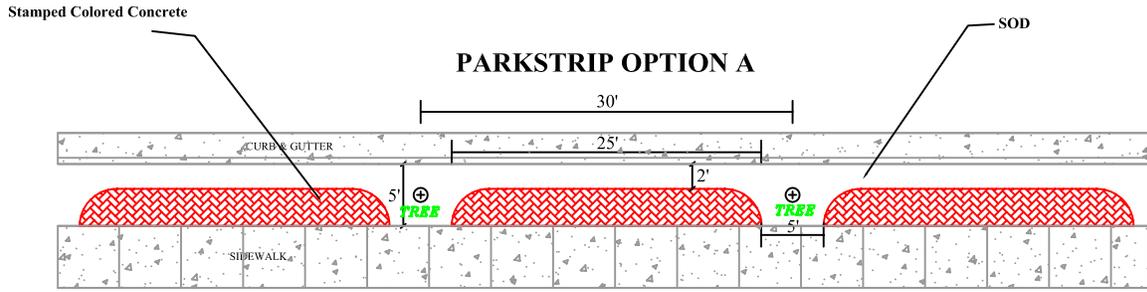
PREPARED BY: _____

SOUTH JORDAN CITY

			DRAWN:
			KS
			DATE
			1/06
DATE	REVISIONS	BY	

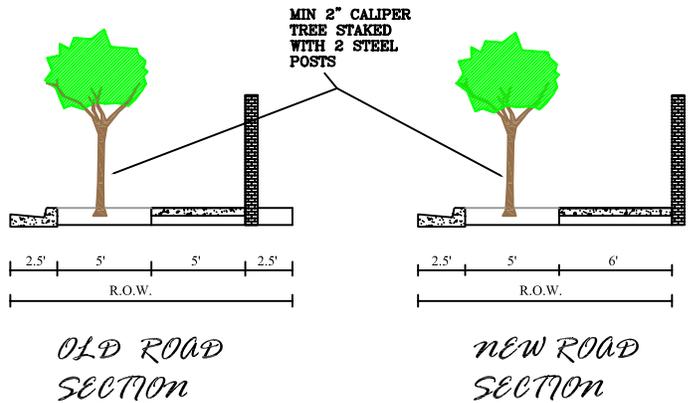
ROAD WIDENING

STANDARD
DRAWING
3012



NOTE: ALL PLANTED AREAS MUST BE EQUIPPED WITH AN IRRIGATION SYSTEM.

DETAIL FOR ALL TREES, SOD, IRRIGATION SYSTEM AND CONCRETE TO BE SUBMITTED FOR REVIEW AND APPROVED BY THE CITY PRIOR TO INSTALLATION. STAMPED CONCRETE WILL BE COLORED DARK RED OR GREY AND SEALED.



Sheet No.

Project No. _____
 Drawn by: CC Design by: CL
 File Name: PROPOSEDPARKSTRIPS
 Checked by: _____ Date: 10/17/02

SINGLE FAMILY REAR AND SIDE PARKSTRIPS ON COLLECTOR STREETS



NO.	DATE	REVISION COMMENTS

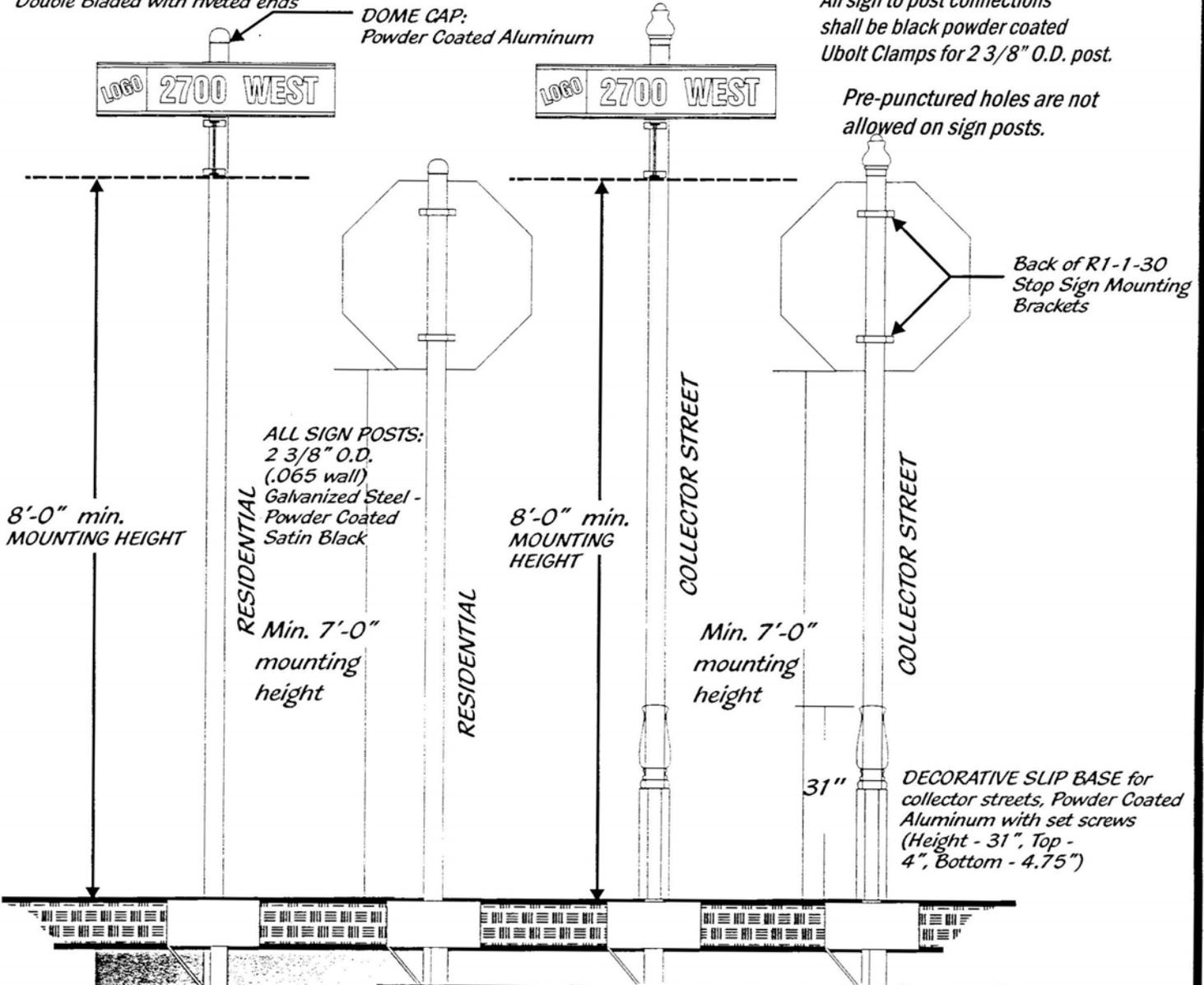
South Jordan City Sign Post, Sign Hardware Standard Drawing

Standard 38" x 8" Street Name Sign w/ Logo
Double Bladed with riveted ends

DOME CAP:
Powder Coated Aluminum

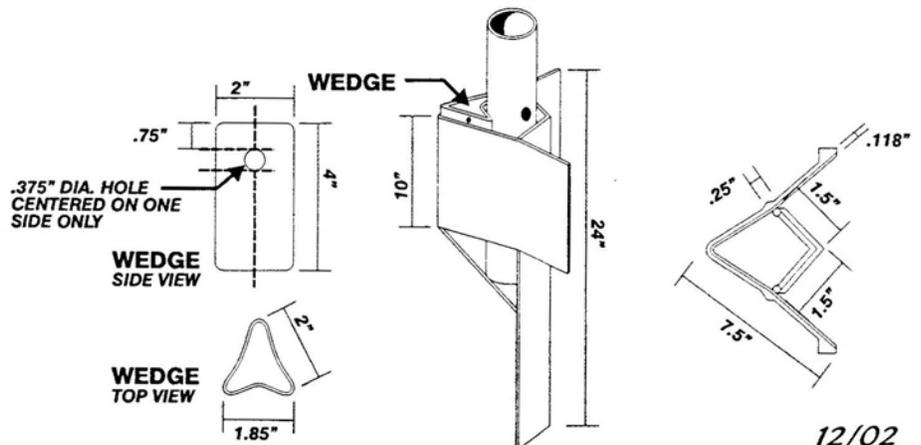
All sign to post connections
shall be black powder coated
Ubolt Clamps for 2 3/8" O.D. post.

Pre-punctured holes are not
allowed on sign posts.



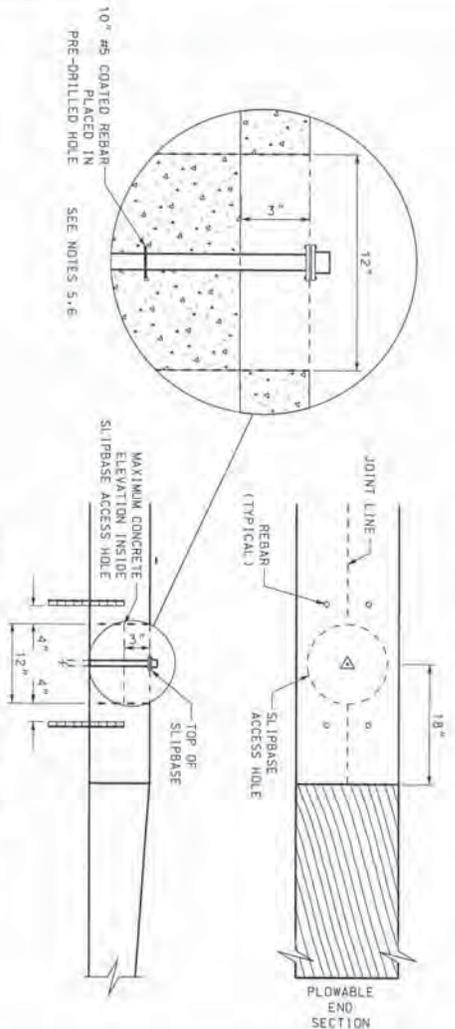
NOTE: All sign post material shall meet the following: Post material ASTM-A653, G90, HSLAS, Type B, 55,000 min Y.S. and 70,000 T. S. , approved by F.H.W.A. and ASHTO under current NCHRP Report #350. Post, cap and decorative base to be powder coated satin black.

V-LOC ANCHOR SPECIFICATIONS

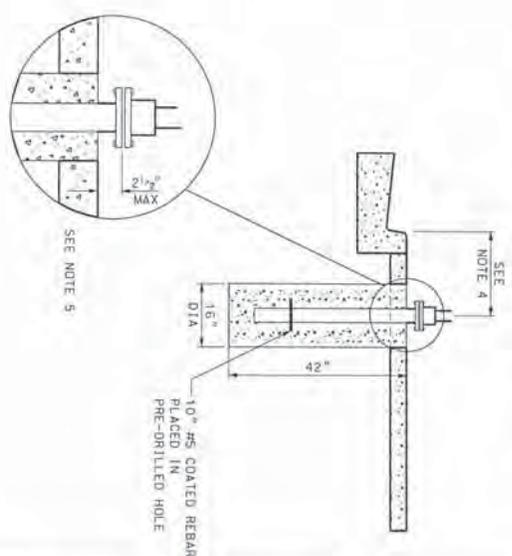


12/02

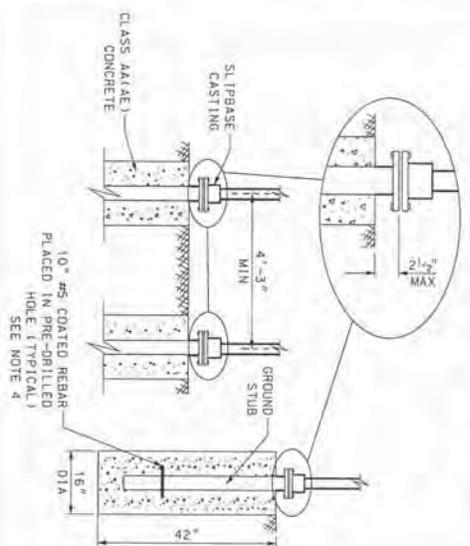
SLIPBASE DETAIL FOR RAISED ISLAND



SLIPBASE DETAIL FOR SIDEWALK



SLIPBASE GROUND STUB FOUNDATION DETAIL
APPLIES TO SINGLE AND DOUBLE POST APPLICATIONS



POST SELECTION GUIDE
SINGLE POST APPLICATION

SIGN HEIGHT (FT)	SIGN WIDTH (FT)				
	2	2.5	3	4	5
1				P3	P3
2				P3	P3
2.5				P3	P3
3				P4	P4
4				P3	P4
5				P3	P4
6				P3	P4
7				P3	P4

7" OR "10" BRACKET RECOMMENDED FOR SIGNS GREATER THAN 4 FEET WIDE

POST SELECTION GUIDE
DOUBLE POST APPLICATION

SIGN HEIGHT (FT)	SIGN WIDTH (FT)									
	5	6	7	8	9	10				
4				P4						
5				P4						
6				P4						
7				P4						
8				P4						

NOTES:

- REFER TO STD DWG SN 10A FOR POST REQUIREMENTS.
- REFER TO STD DWG SN 13 SERIES FOR MOUNTING AND HANDOVER REQUIREMENTS.
- WHEN INSTALLING A SUPPLEMENTAL SIGN DO NOT EXCEED MAXIMUM SQUARE FOOTAGE OF SINGLE POST APPLICATION BY MORE THAN 50%. TEN-POST P5 MAX. SIGN SIZE 5'W x 6'H = 30 SQ.FT. + 25% = 37.5 SQ.FT. (5'W x 6'H + 1/3' W x 2.5'H = 37.5).
- REFER STD DWG SN 7A FOR HEIGHT AND OFFSET REQUIREMENTS.
- CORE DRILL SLIPBASE HOLE, INSTALL AFTER PLACEMENT OF FINISHED GRADE OF CONCRETE OR ASPHALT.
- ISLAND INSTALLATION: PLACE TOP OF SLIPBASE STUB FLUSH WITH TOP OF THE ISLAND WITH A TOLERANCE OF + 1/4" 100 NOT PLACE BELOW TOP OF CURB.

STD DWG
SN 10B

SLIPBASE SIGN BASE (B3) INSTALLATION

STANDARD DRAWING TITLE

UTAH DEPARTMENT OF TRANSPORTATION
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION

RECOMMENDED FOR APPROVAL

CHAIRMAN STANDARDS COMMITTEE APPROVED

DEPUTY DIRECTOR

JAN 01 2008
DATE

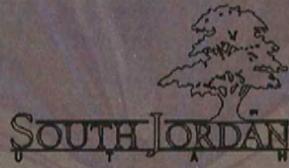
JAN 01 2008
DATE

REVISIONS			
NO.	DATE	APPR.	REMARKS

STREET LIGHTS

IN USA

MADE

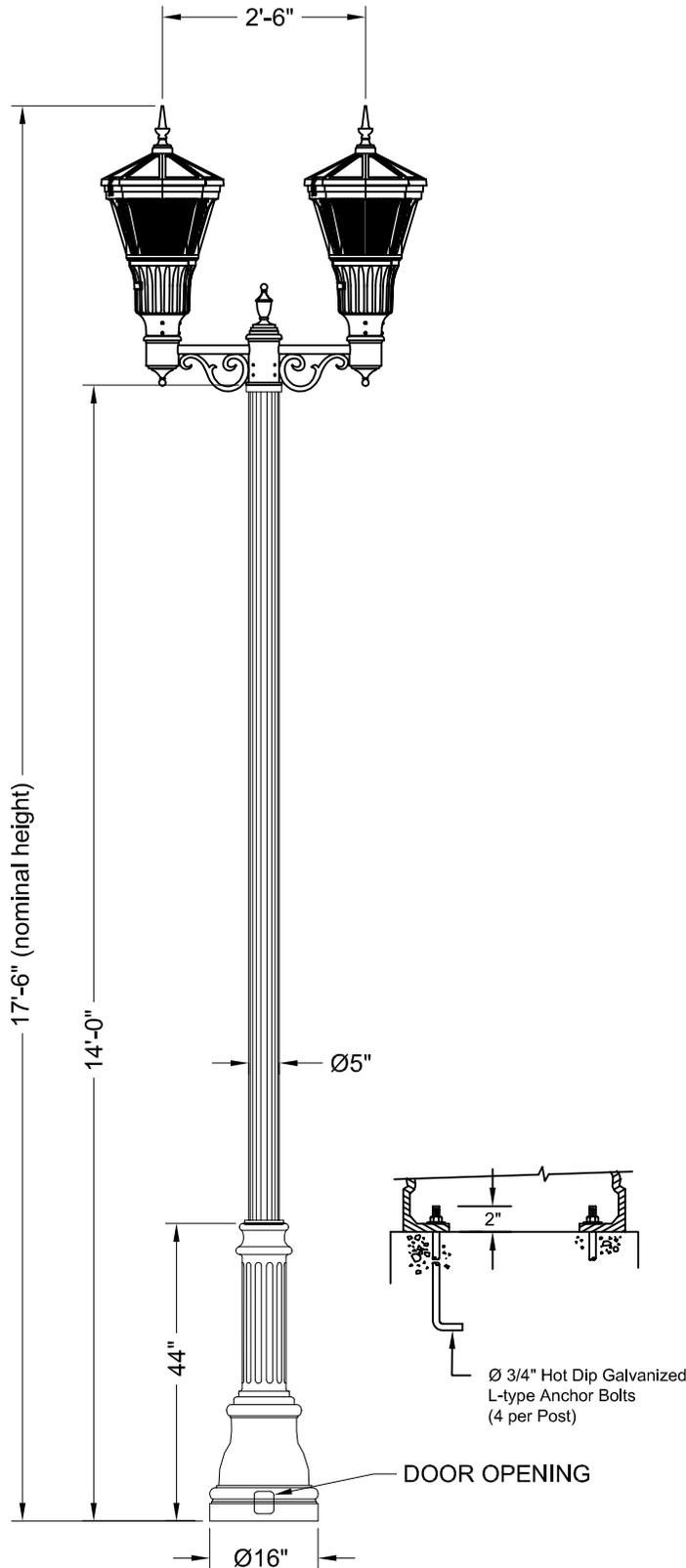


Electric

LIFT

HERE

Specifications



POST DESCRIPTION

The lighting post shall be aluminum, one-piece construction, with a classic fluted base design. The shaft shall be Ø5" fluted.

MATERIALS

The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a or ASTM B26-95. The straight shafts shall be extruded from aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be tamper resistant stainless steel. Anchor bolts to be hot dip galvanized.

CONSTRUCTION

The shaft shall be double welded to the base casting and shipped as one piece for maximum structural integrity. The shaft shall be circumferentially welded inside the base casting at the top of the access door, and externally where the shaft exits the base. All exposed welds below 8' shall be ground smooth. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per Section 5 of ANSI/AWS D1.2-90.

DIMENSIONS

The post shall be 14'-0" in height with an 16" diameter base. The shaft diameter shall be 5". At the top of the post, a tenon with a transitional donut shall be provided for arm mounting.

INSTALLATION

The post shall use four L-type anchor bolts installed on an Ø12" bolt circle. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.

FINISH

The assembly shall be Holophane black powder coat

LUMINAIRE

- Utility Arlington LED
- 100W 4k CCT
- Auto-sensing 120-277V
- Asymmetric Glass Refractor, Spike Finial
- NEMA Twistlock Photocontrol Receptacle
- 25' Prewired Leads
- DTL Solid State Photocontrol 120-277V

For complete specifications see LUM_ARUE.

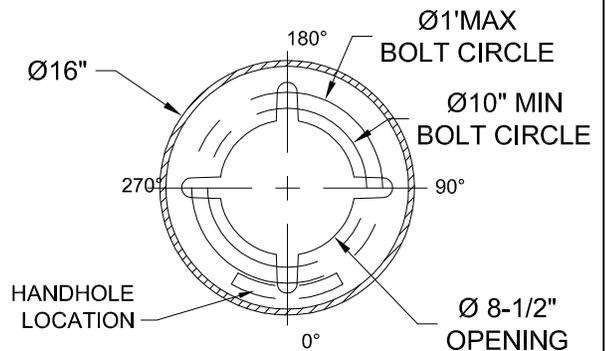
OPTICAL SYSTEM

Refractor is a thermal resistant borosilicate glass lens to provide an I.E.S. Type III distribution. Acrylic and polycarbonate lens are not acceptable. The optical system in conjunction with a polished reflector and LED circuit board with dedicated heat sink create a sealed optical compartment.

ELECTRICAL MODULE

All of the electrical components are mounted on one steel plate that is removable for ease of maintenance.

Anchorage Detail



Catalog #'s:

ARUE1004KASG3BSHL25PCS - CSC30CABKH - CHA14F5J16P05ABGBK

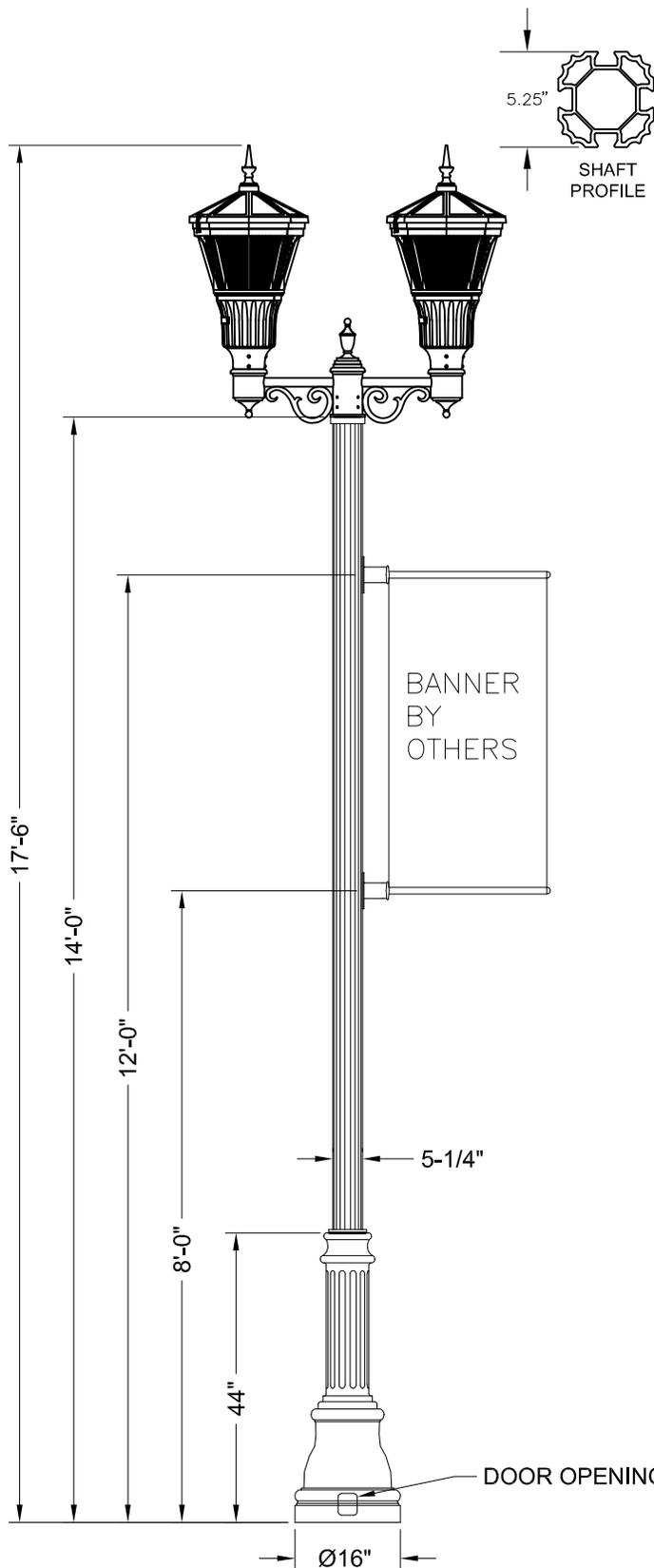
Customer Signature



South Jordan Category 1a

ORDER #:	TYPE: Cat 1A	DRAWING #:
REVISION:	REVISION DATE:	TSG 007077
DRAWN: ACH	ORIGIN DATE:	PAGE: 1 of 1

Specifications



POST DESCRIPTION

The lighting post shall be aluminum, one-piece construction, with a classic fluted base design. The shaft profile will consist of 4 mounting tracks and internal passages as shown.

MATERIALS

The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a. The straight shafts shall be extruded from aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be tamper resistant stainless steel. Anchor bolts to be hot dip galvanized.

CONSTRUCTION

The shaft shall be double welded to the base casting and shipped as one piece for maximum structural integrity. The shaft shall be circumferentially welded inside the base casting at the top of the access door, and externally where the shaft exits the base. All exposed welds below 8' shall be ground smooth. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per Section 5 of ANSI/AWS D1.2-90.

DIMENSIONS

The post shall be 14'-0" in height with a 16" diameter base. The shaft diameter shall be 5" at the top of the post, a tenon with a transitional donut shall be provided for arm mounting.

INSTALLATION

The post shall use four L-type anchor bolts installed on a 12" bolt circle. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.

FINISH

The assembly shall be Holophane black powder coat

LUMINAIRE DESCRIPTION

- Utility Arlington LED
- 100W 4K CCT
- Auto-Sensing 120-277v
- Asymmetric Glass Refractor, Spike Finial
- NEMA Twistlock Photocontrol Receptacle
- 25' Prewired Leads
- DTL Solid State Photocontrol 120-277v

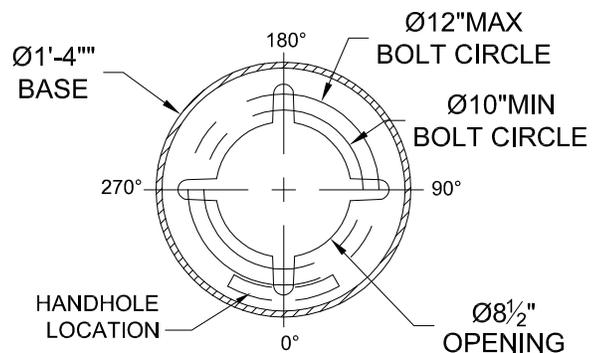
OPTICAL SYSTEM

Refractor is a thermal resistant borosilicate glass lens to provide an I.E.S. Type III distribution. Acrylic and polycarbonate lens are not acceptable. The optical system in conjunction with a polished reflector and LED circuit board with dedicated heat sink create a sealed optical compartment.

ELECTRICAL MODULE

All of the electrical components are mounted on one steel plate that is removable for ease of maintenance.

Anchorage Detail



Catalog #'s:

ARUE1004KASG3BSHL25PCS - CSC30CABKH-CHA14L5J16P05ABGBK-BA24L45A4BK

Customer Signature



South Jordan Category 1b

ORDER #:	TYPE: Cat 1b	DRAWING #:
REVISION:	REVISION DATE:	TSG 002636
DRAWN:	ORIGIN DATE:	PAGE: 1 of 1

THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE ON THE ORDER NOTED ABOVE. A UNIT OF SIMILAR DESIGN MAY BE SUPPLIED, BUT ONLY AFTER APPROVAL BY THE CUSTOMER IN WRITING. ON POLE ORDERS AN ANCHOR BOLT TEMPLATE PRINT WILL BE SUPPLIED WITH EACH ANCHOR BOLT ORDER TO MATCH THE POLE PROVIDED. THIS PRINT IS THE PROPERTY OF HOLOPHANE AND IS LOANED SUBJECT TO RETURN UPON DEMAND AND UPON EXPRESS CONDITION THAT IT WILL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS, AND ONLY IN CONNECTION WITH MATERIAL FURNISHED BY HOLOPHANE.

Specifications

POST DESCRIPTION

The lighting post shall be aluminum, one-piece construction, with a classic fluted base design. The shaft profile will consist of 4 mounting tracks and internal passages as shown.

MATERIALS

The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a. The straight shafts shall be extruded from aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be tamper resistant stainless steel. Anchor bolts to be hot dip galvanized.

CONSTRUCTION

The shaft shall be double welded to the base casting and shipped as one piece for maximum structural integrity. The shaft shall be circumferentially welded inside the base casting at the top of the access door, and externally where the shaft exits the base. All exposed welds below 8' shall be ground smooth. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per Section 5 of ANSI/AWS D1.2-9.0

DIMENSIONS

The post shall be 14'-0" in height with a 16" diameter base. The shaft diameter shall be 5" at the top of the post, a tenon with a transitional donut shall be provided for arm mounting.

INSTALLATION

The post shall use four L-type anchor bolts installed on a 12" bolt circle. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.

FINISH

The assembly shall be Holophane black powder coat

LUMINAIRE DESCRIPTION

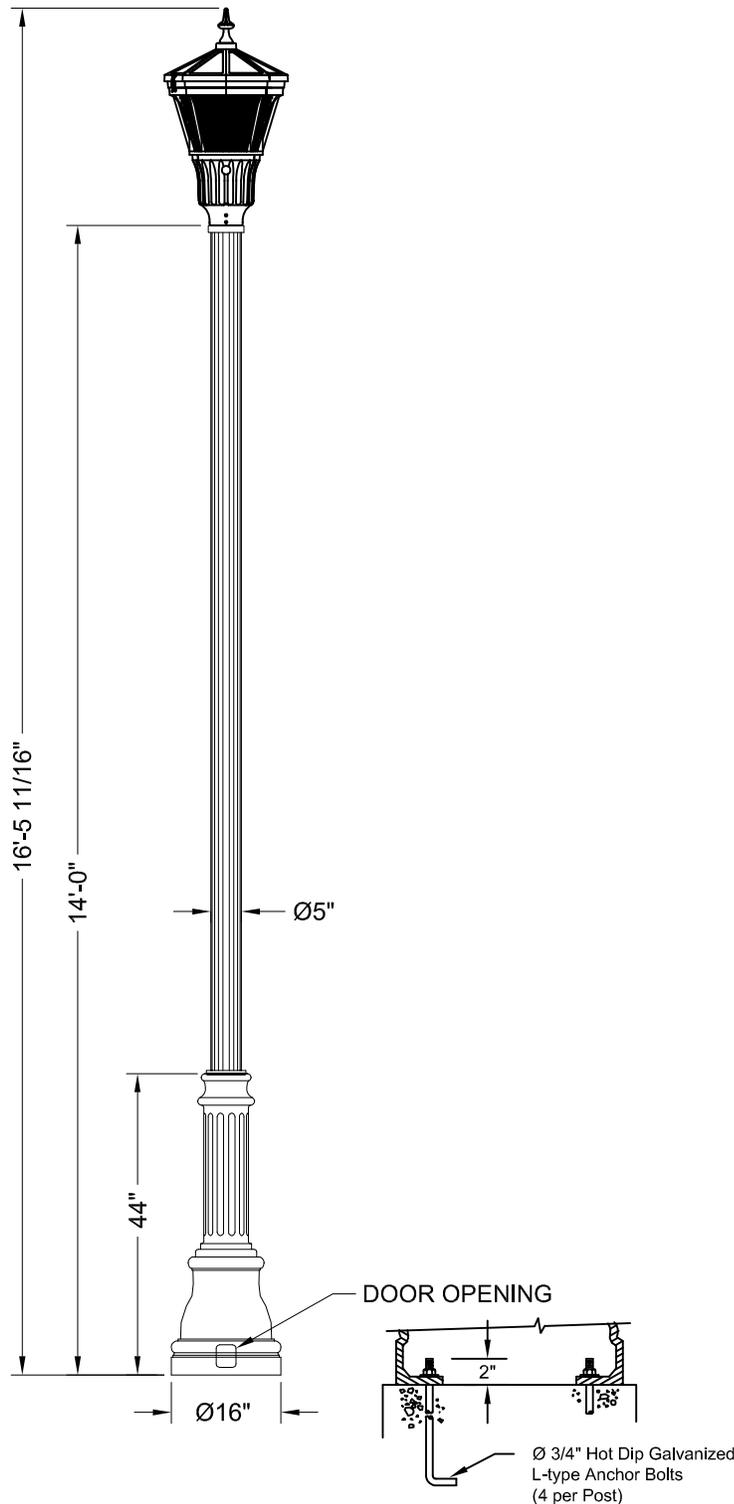
- Utility Arlington LED
- 100W 4K CCT
- Auto-Sensing 120-277v
- Asymmetric Glass Refractor, Spike Finial
- NEMA Twistlock Photocontrol Receptacle
- 25' Prewired Leads
- DTL Solid State Photocontrol 120-277v

OPTICAL SYSTEM

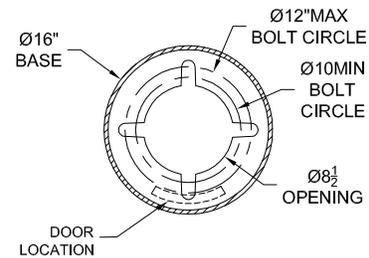
Refractor is a thermal resistant borosilicate glass lens to provide an I.E.S. Type III distribution. Acrylic and polycarbonate lens are not acceptable. The optical system in conjunction with a polished reflector and LED circuit board with dedicated heat sink create a sealed optical compartment.

ELECTRICAL MODULE

All of the electrical components are mounted on one steel plate that is removable for ease of maintenance.



Anchorage Detail



Catalog #s:

ARUE1004KASG3BSHL25PCS -CHA14L5J16P07ABGBK

Customer Signature

Date

South Jordan Category 2



ORDER #:	TYPE: Cat 2	DRAWING #:
REVISION:	REVISION DATE:	TSG 003175
DRAWN:	ORIGIN DATE:	PAGE: 1 of 1

THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE ON THE ORDER NOTED ABOVE. A UNIT OF SIMILAR DESIGN MAY BE SUPPLIED, BUT ONLY AFTER APPROVAL BY THE CUSTOMER IN WRITING. ON POLE ORDERS AN ANCHOR BOLT TEMPLATE PRINT WILL BE SUPPLIED WITH EACH ANCHOR BOLT ORDER TO MATCH THE POLE PROVIDED. THIS PRINT IS THE PROPERTY OF HOLOPHANE AND IS LOANED SUBJECT TO RETURN UPON DEMAND AND UPON EXPRESS CONDITION THAT IT WILL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS, AND ONLY IN CONNECTION WITH MATERIAL FURNISHED BY HOLOPHANE.

Specifications

POST DESCRIPTION

The lighting post shall be aluminum, one-piece construction, with a classic fluted base design.

MATERIALS

The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a. The straight shafts shall be extruded from aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be tamper resistant stainless steel. Anchor bolts to be hot dip galvanized.

CONSTRUCTION

The shaft shall be double welded to the base casting and shipped as one piece for maximum structural integrity. The shaft shall be circumferentially welded inside the base casting at the top of the access door, and externally where the shaft exits the base. All exposed welds below 8' shall be ground smooth. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per Section 5 of ANSI/AWS D1.2-9.0

DIMENSIONS

The post shall be 14'-0" in height with a 16" diameter base. The shaft diameter shall be 5" at the top of the post, a tenon with a transitional donut shall be provided for arm mounting.

INSTALLATION

The post shall use four L-type anchor bolts installed on a 12" bolt circle. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.

FINISH

The assembly shall be Holophane black powder coat

LUMINAIRE DESCRIPTION

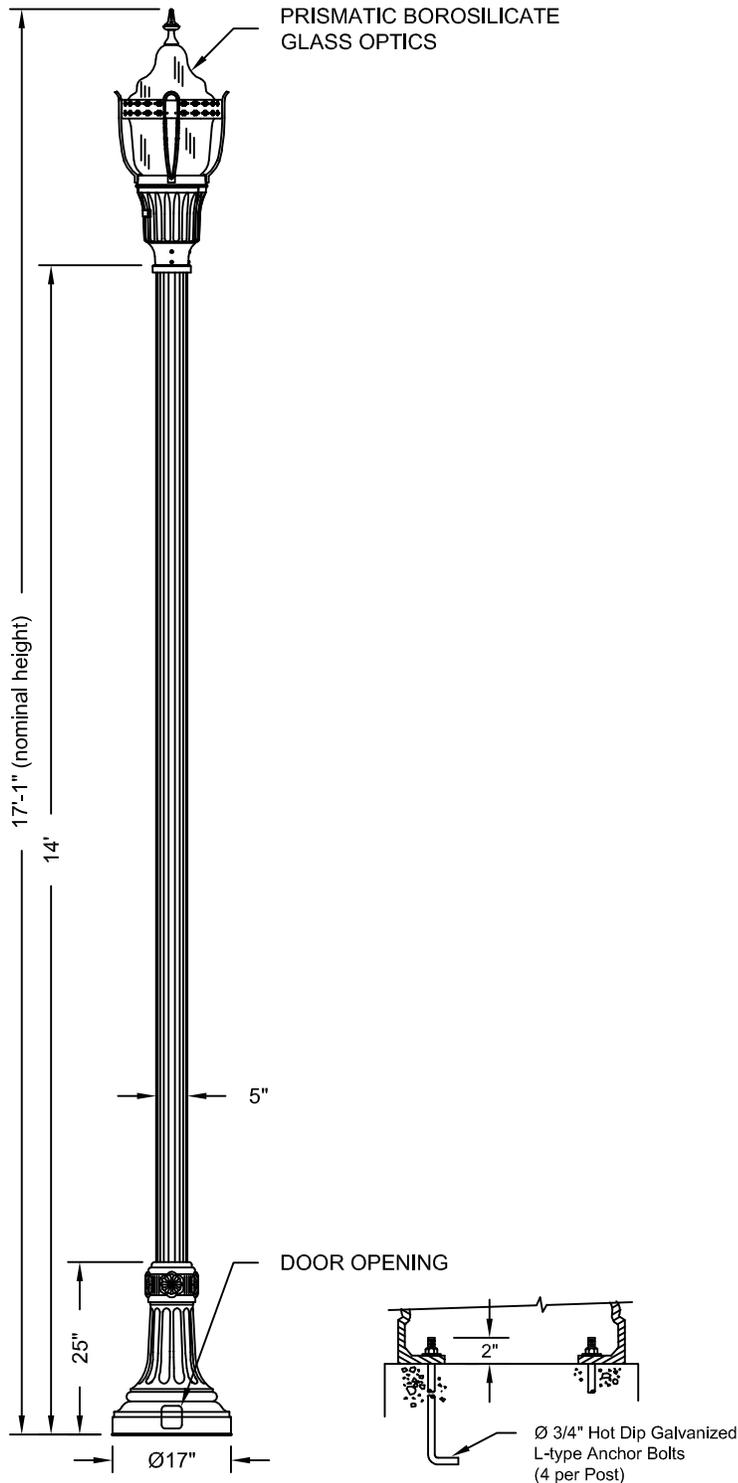
- Utility Granville LED
- 100W 4K CCT
- Auto-Sensing 120-277v
- Glass Prismatic Refractor Borosilicate glass, Decorative Cage and Spike Finial
- NEMA Twistlock Photocontrol Receptacle
- 25' Prewired Leads
- DTL Solid State Photocontrol 120-277v

OPTICAL SYSTEM

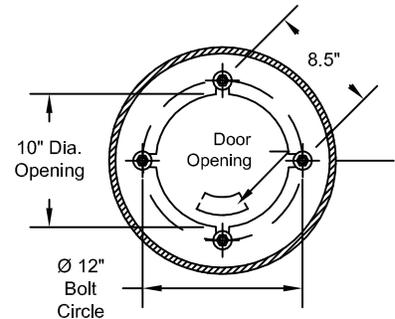
The optical system consists of a precisely molded thermal resistant borosilicate glass refractor and top reflector mounted within the decorative aluminum housing and is not removable. The glass top reflector redirects over 50% of the upward light into controlling refractor while allowing an uplight component to define the acorn shape of the luminaire. I.E.S. type III distribution is provided through the refractor prisms. Acrylic or Polycarbonate optical lens are not acceptable.

ELECTRICAL MODULE

All of the electrical components are mounted on one steel plate that is removable for ease of maintenance.



Anchorage Detail



Catalog #s:

GVD1004KASMB3RSG25HPCSS NYA14F5J17P07ABG

Customer Signature

Date



South Jordan Category 3

ORDER #:	TYPE: Cat 3	DRAWING #:
REVISION:	REVISION DATE:	TSG 007220
DRAWN:	ORIGIN DATE:	PAGE: 1 of 1

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Specifications

POST DESCRIPTION

The lighting post shall be aluminum, one-piece construction, with a classic fluted base design.

MATERIALS

The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a. The straight shafts shall be extruded from aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be tamper resistant stainless steel. Anchor bolts to be hot dip galvanized.

CONSTRUCTION

The shaft shall be double welded to the base casting and shipped as one piece for maximum structural integrity. The shaft shall be circumferentially welded inside the base casting at the top of the access door, and externally where the shaft exits the base. All exposed welds below 8' shall be ground smooth. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per Section 5 of ANSI/AWS D1.2-9.0

DIMENSIONS

The post shall be 14'-0" in height with a 16" diameter base. The shaft diameter shall be 5" at the top of the post.

INSTALLATION

The post shall use four L-type anchor bolts installed on a 12" bolt circle. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.

FINISH

The assembly shall be Holophane black powder coat

LUMINAIRE DESCRIPTION

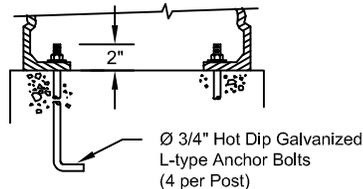
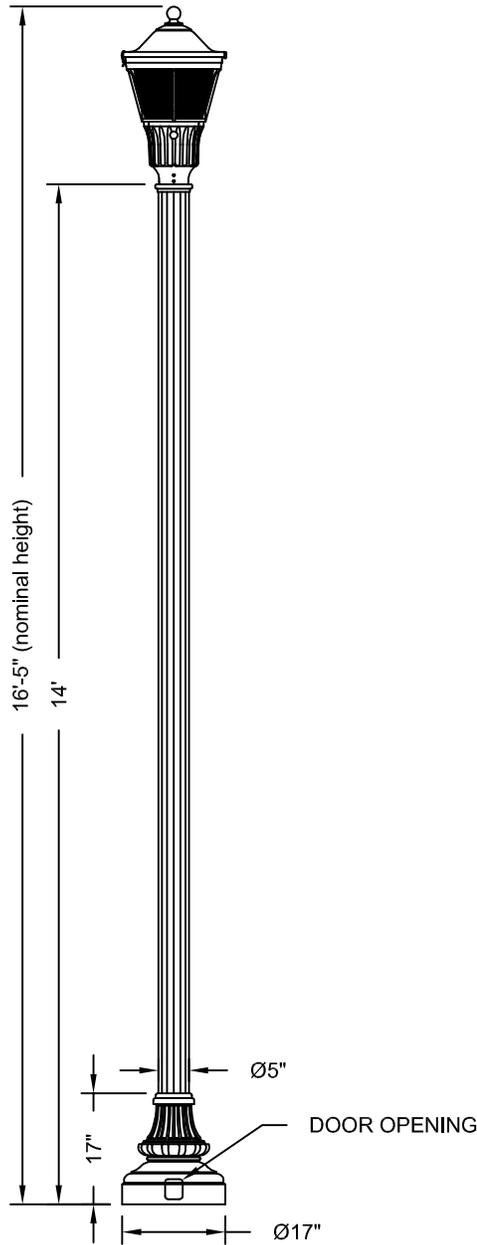
- Utility Postop LED
- 50W 4K CCT
- Auto-Sensing 120-277v
- Asymmetric Glass Refractor, Ball Finial
- NEMA Twistlock Photocontrol Receptacle
- 25' Prewired Leads
- DTL Solid State Photocontrol 120-277v

OPTICAL SYSTEM

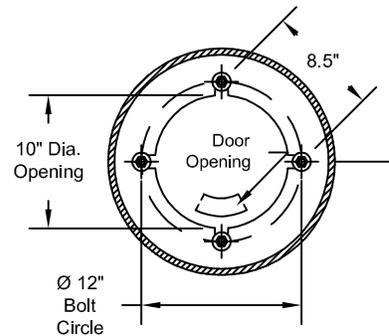
Refractor is a thermal resistant borosilicate glass lens to provide an I.E.S. Type III distribution. Acrylic and polycarbonate lens are not acceptable. The optical system in conjunction with a polished reflector and LED circuit board with dedicated heat sink create a sealed optical compartment.

ELECTRICAL MODULE

All of the electrical components are mounted on one steel plate that is removable for ease of maintenance.



Anchorage Detail



Catalog #s:

PTUE504KASG3BBHL25PCS WDA14F5J17P07ABGBK

Customer Signature

South Jordan Category 4



ORDER #:	TYPE: Cat 4	DRAWING #:
REVISION:	REVISION DATE:	TSG 003314
DRAWN:	ORIGIN DATE:	PAGE: 1 of 1

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