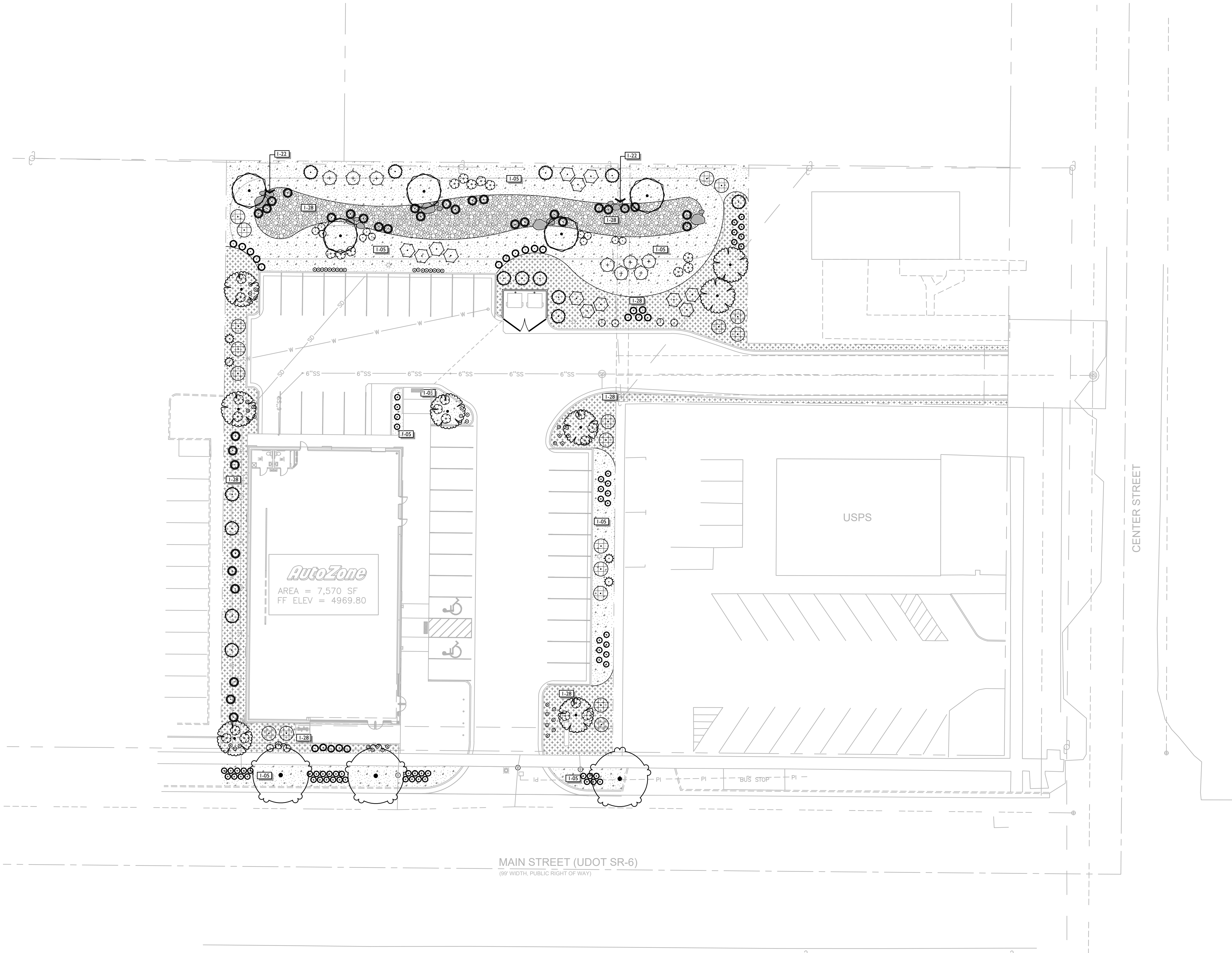


PLANT LEGEND (NOTE: PLANT QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY. IN CASE OF DISCREPANCY, THE DRAWING SHALL TAKE PRECEDENCE.)

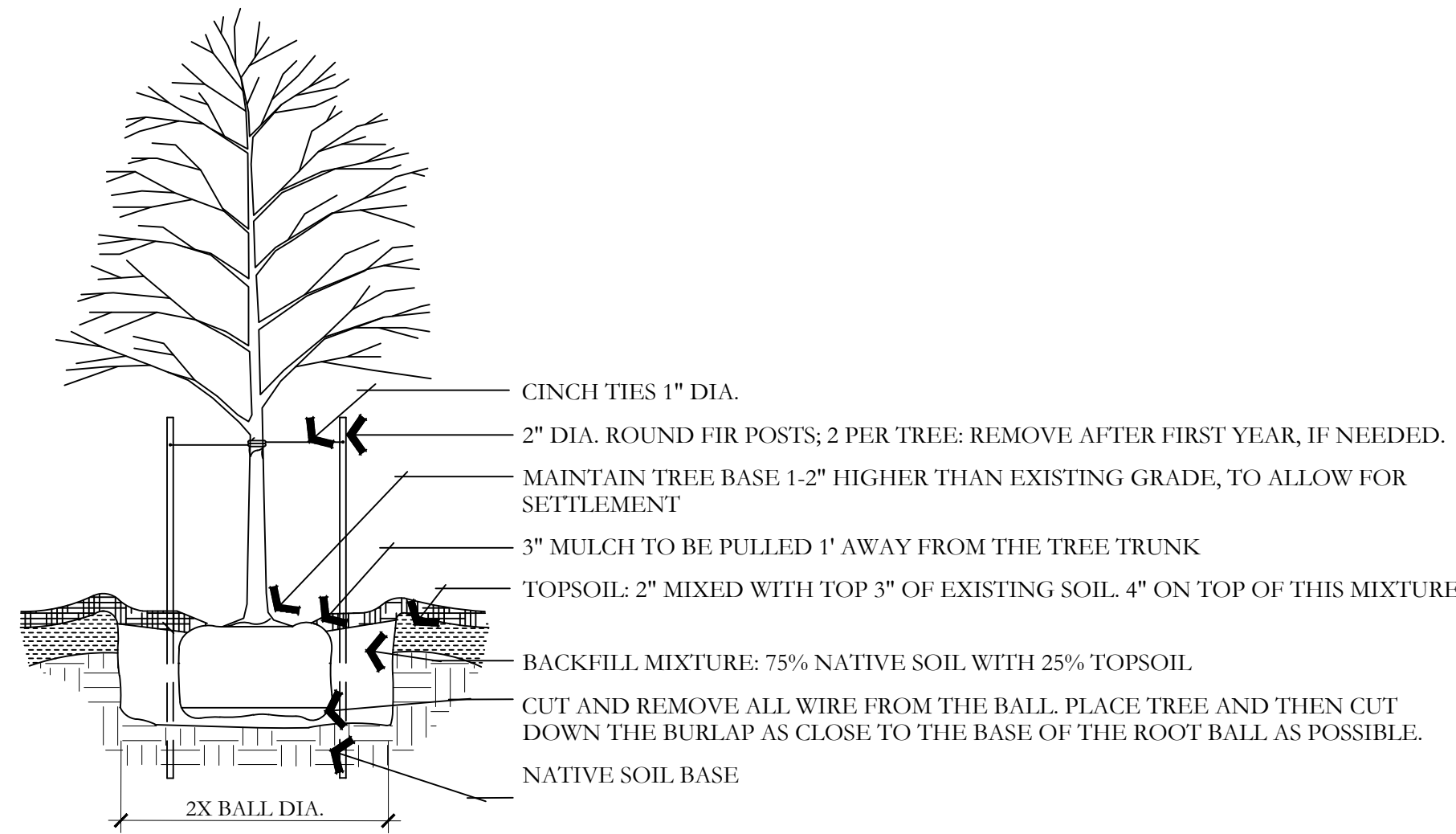
TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT.	CAL.
	JCS	14	Juniperus chinensis 'Spartan' Spartan Juniper low, 15x6; sun; z4; Utah Lake water tolerant	6' MIN.	
	JSB	4	Juniperus scopulorum 'Blue Arrow' Blue Arrow Juniper Tc2; 15x3; sun; z4; Utah Lake water tolerant	6' MIN.	
DECIDUOUS TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT.	CAL.
	KPG	3	Koeleruteria paniculata Golden Rain Tree Td2; 25x25; AV 400; sun; z5; Utah Lake water tolerant	B & B	2" Cal
	MPP	5	Malus x 'Pranfire' Pranfire Crabapple low; 20x20; sun; z4; Utah Lake water tolerant	B & B	2" Cal
	ZSM	8	Zelkova serrata 'Munashino' Munashino Zelkova Td4; 45x15; AV 400; sun; z5; Utah Lake water tolerant	B & B	2" Cal
DECIDUOUS SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT.	
	CMF	18	Chamaebutaria millefolium Firebush Sd1; 4x3; AV 7; sun to part sun; z4; Utah Lake water tolerant	5 gal	
	POF	19	Physocarpus opulifolius 'UMNHarpell' Fireside TM Fireside Ninebark Sd4; 7x6; AV 78; sun; z3	5 gal	
	PBP	8	Prunus besseyi 'P011S' TM Pawnee Buttes Sand Cherry Sd1; 1.5 x 6; AV19.5; sun; z4;	5 gal	
	RTA	13	Rhus trilobata 'Autumn Amber' Autumn Amber Sumac GV1; 1 x 6; AV 12.5; fall to part sun; z4	5 gal	
GRASSES	CODE	QTY	BOTANICAL / COMMON NAME	CONT.	
	BGB	60	Bouteloua gracilis 'Blonde Ambition' Blonde Ambition Blue Grama Tw9; 2.5 x 2.5; AV .75; sun; Z4; Utah Lake water tolerant	1 gal	
	CAK	21	Calamagrostis x acutiflora 'Karl Foerster' Feather Reed Grass Tw2; 4x3; AV 7; sun; z4; Utah Lake water tolerant	1 gal	
	MML	34	Miscanthus sinensis 'Morning Light' Morning Light Maiden Grass Tw2; 5x4; AV 32; sun to light shade; z5; Utah Lake water tolerant	2 gal	
PERENNIALS	CODE	QTY	BOTANICAL / COMMON NAME	CONT.	
	HSD	53	Hemerocallis x 'Siella de Oro' Siella de Oro Daylily P3; 2x2; AV 1; full to part sun; z3; Utah Lake water tolerant	1 gal	
ROSES	CODE	QTY	BOTANICAL / COMMON NAME	CONT.	
	RDK	27	Rosa x 'Redlin' Double Knock-Out Rose moderate; 3-4 x 3-4; sun; z5; Utah Lake water tolerant	5 gal	

SITE MATERIALS LEGEND

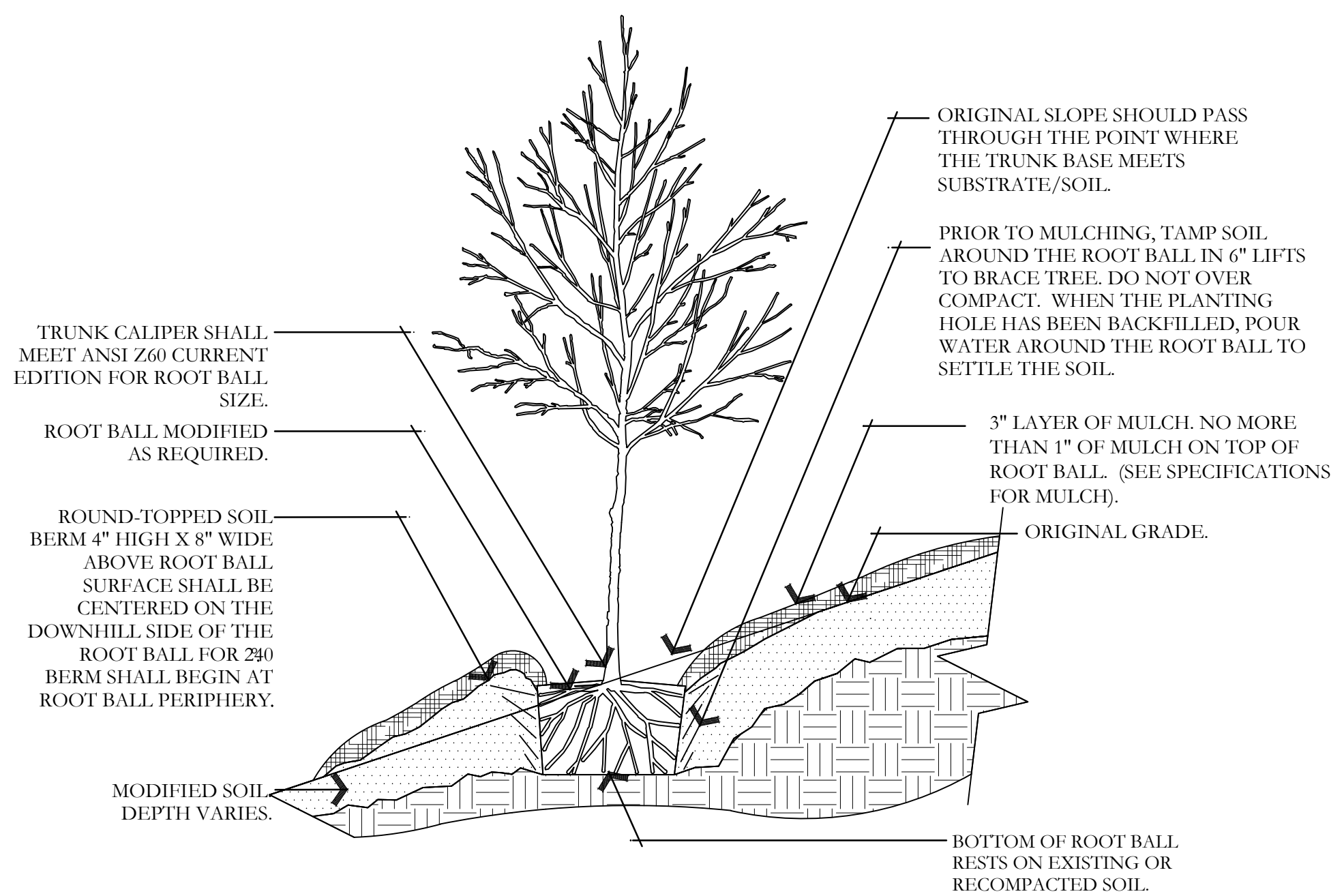
SYMBOL	LANDSCAPE DESCRIPTION	QTY
	1" MINUS COPPER CANYON CRUSHED ROCK OR APPROVED EQUAL. STONE MULCH PLANTING AREAS TO RECEIVE MIN. 6" DEPTH OF QUALITY TOPSOIL. IF TOPSOIL IS PRESENT ON SITE, PROVIDE SOIL TEST TO DETERMINE SOIL QUALITY FOR PROPOSED PLANTINGS. PROVIDE 3" DEPTH OF STONE MULCH TOP DRESSING. KEEP ROCK FROM WITHIN ONE FOOT OF TREE TRUNK, SHRUB OR PERENNIAL BASE OR GRASS ROOT BALL.	9,503 sf
	BOULDERS - DECORATIVE	16
	2-4" TALONS COVE DARK GREY CRUSHED ROCK OR APPROVED EQUAL. PROVIDE 6" DEPTH OF ROCK MULCH TOP DRESSING. INSTALL DEWITT 50Z WEED BARRIER UNDER ALL LARGE ROCK AREAS.	7,273 sf
	4"-6" SOUTH TOWN COBBLE ROCK OR APPROVED EQUAL. PROVIDE 9-12" DEPTH OF ROCK MULCH TOP DRESSING. INSTALL DEWITT 50Z WEED BARRIER UNDER ALL LARGE ROCK AREAS.	2,583 sf



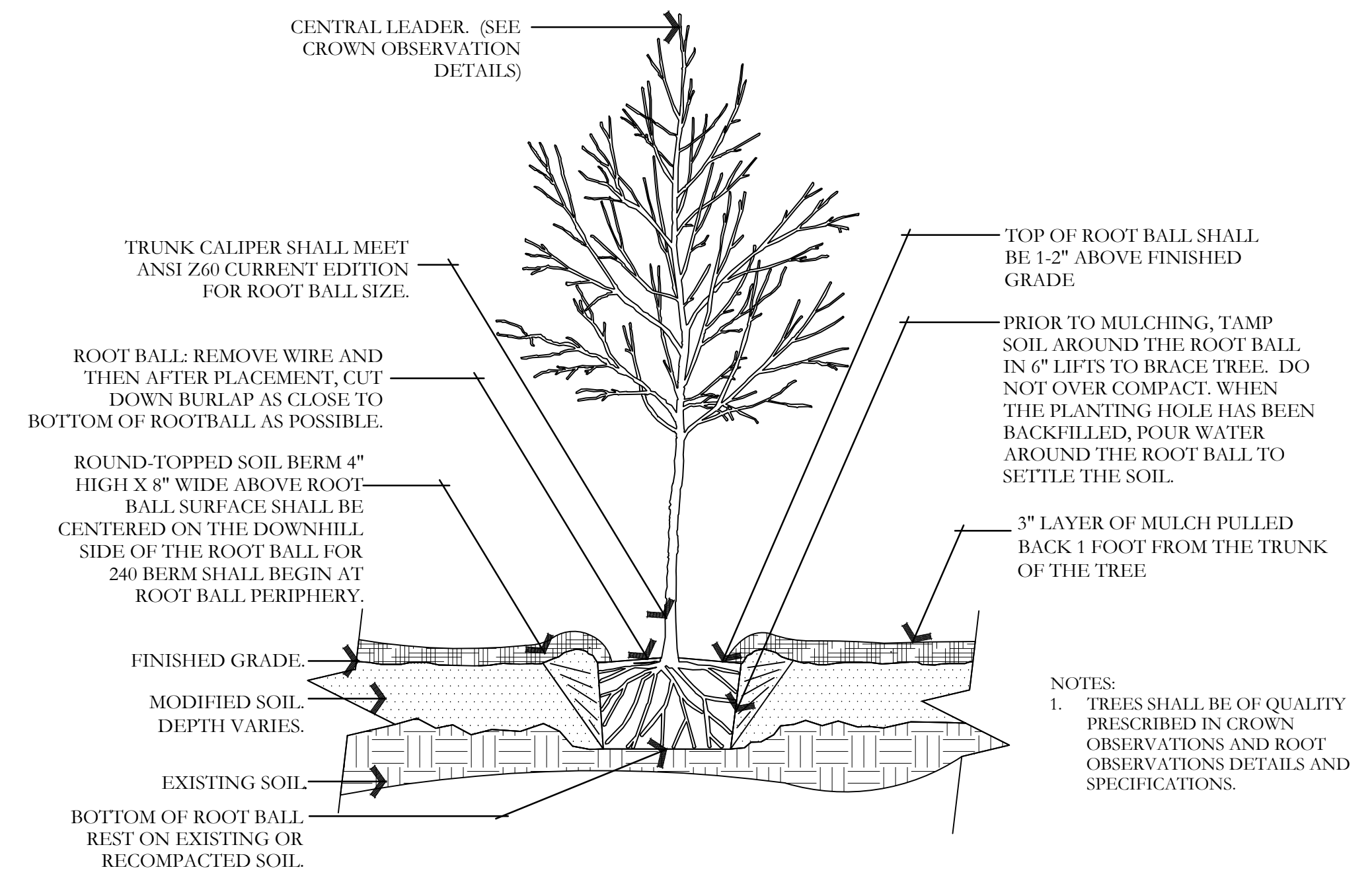
ISSUE DATE 11/21/2022	PROJECT NUMBER UT22173	PROJECT INFORMATION PROJECT INFORMATION	DEVELOPER / PROPERTY OWNER / CLIENT CIR CIVIL ENGINEERING 3032 SOUTH 1030 WEST, SUITE 202 SALT LAKE CITY, UT 84119 801-949-6296	LANDSCAPE ARCHITECT / PLANNER PKJ DESIGN GROUP Landscape Architecture • Planning • Visualization 3450 N. TRIUMPH BLVD. SUITE 102 LEHI, UTAH 84043 (801) 753-5644 www.pkjdesigngroup.com	LICENSE STAMP 	DRAWING INFO PLOT DATE: 11/21/2022 PLOT: JTA DRAWN: ACP CHECKED: JMA PLOT DATE: 11/21/2022																								
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>REVISION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>XXXX</td> <td>XX-XX-XX</td> </tr> <tr> <td>2</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> </tr> </tbody> </table>		NO.	REVISION	DATE	1	XXXX	XX-XX-XX	2			3			4			5			6			7			<h1 style="margin: 0;">AUTOZONE</h1> <h2 style="margin: 0;">SANTAQUIN, UTAH</h2>		<p>GRAPHIC SCALE: 1" = 20'</p>		
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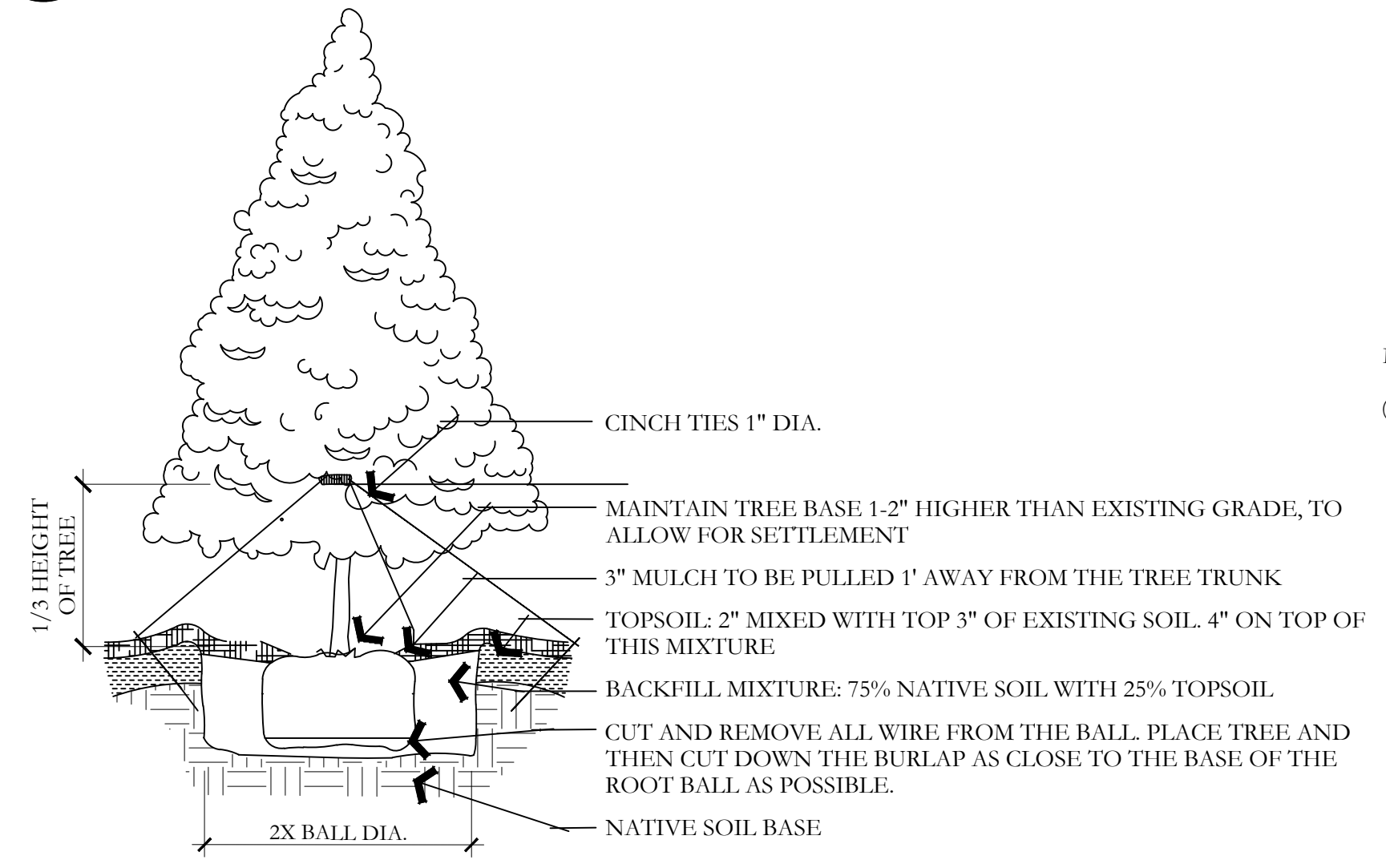
A DECIDUOUS TREE PLANTING
NOT TO SCALE



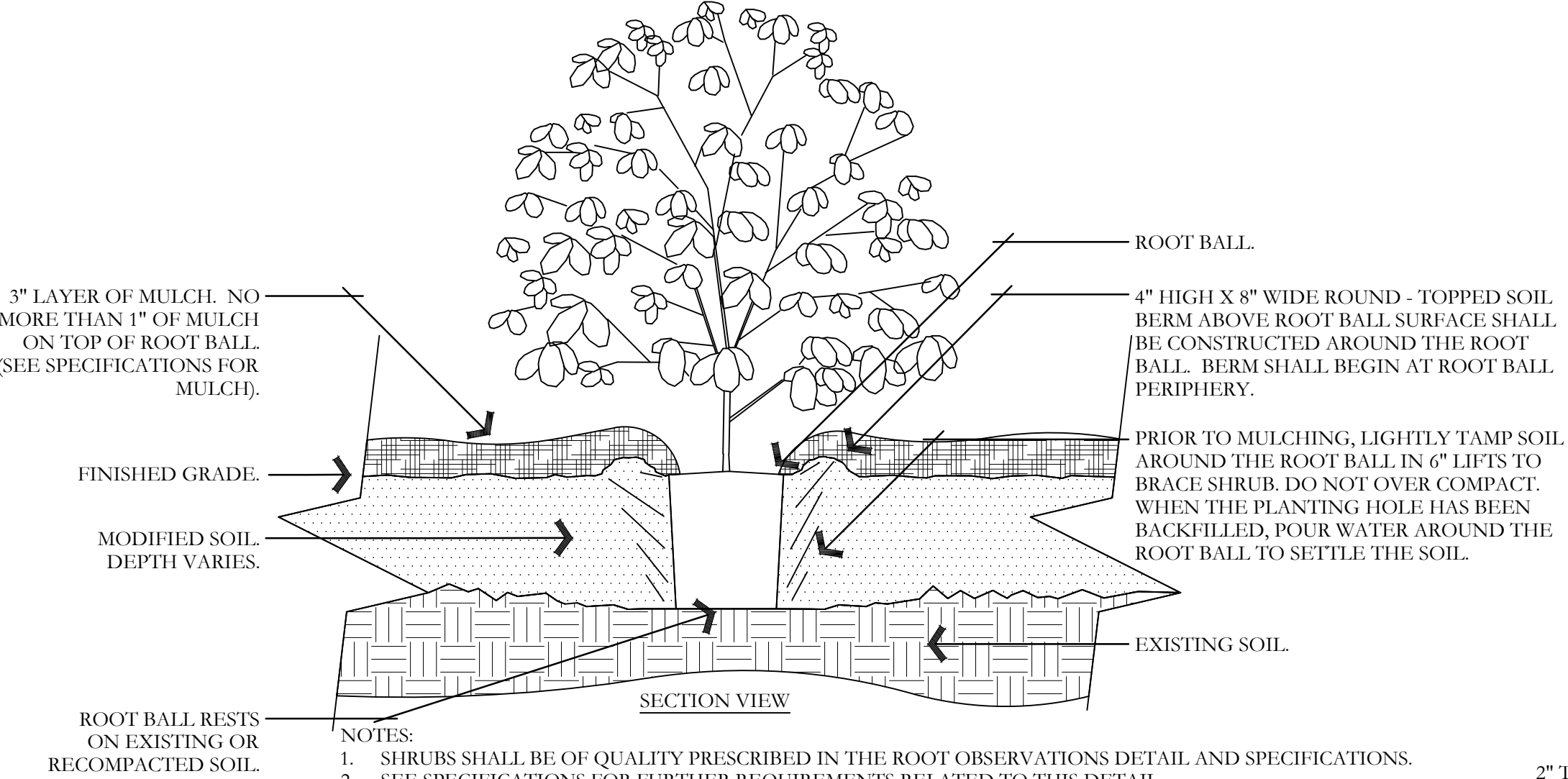
B TREE ON SLOPE 5% (20:1) TO 50% (2:1)
NOT TO SCALE



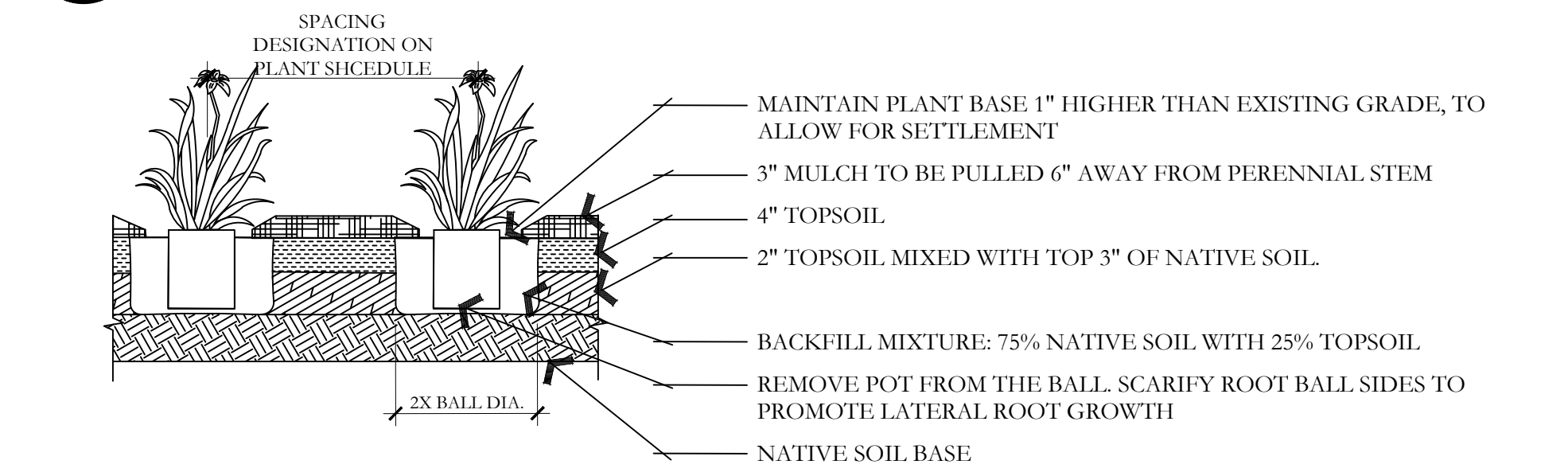
C TREE W/ BERM (EXISTING SOIL MODIFIED)
NOT TO SCALE



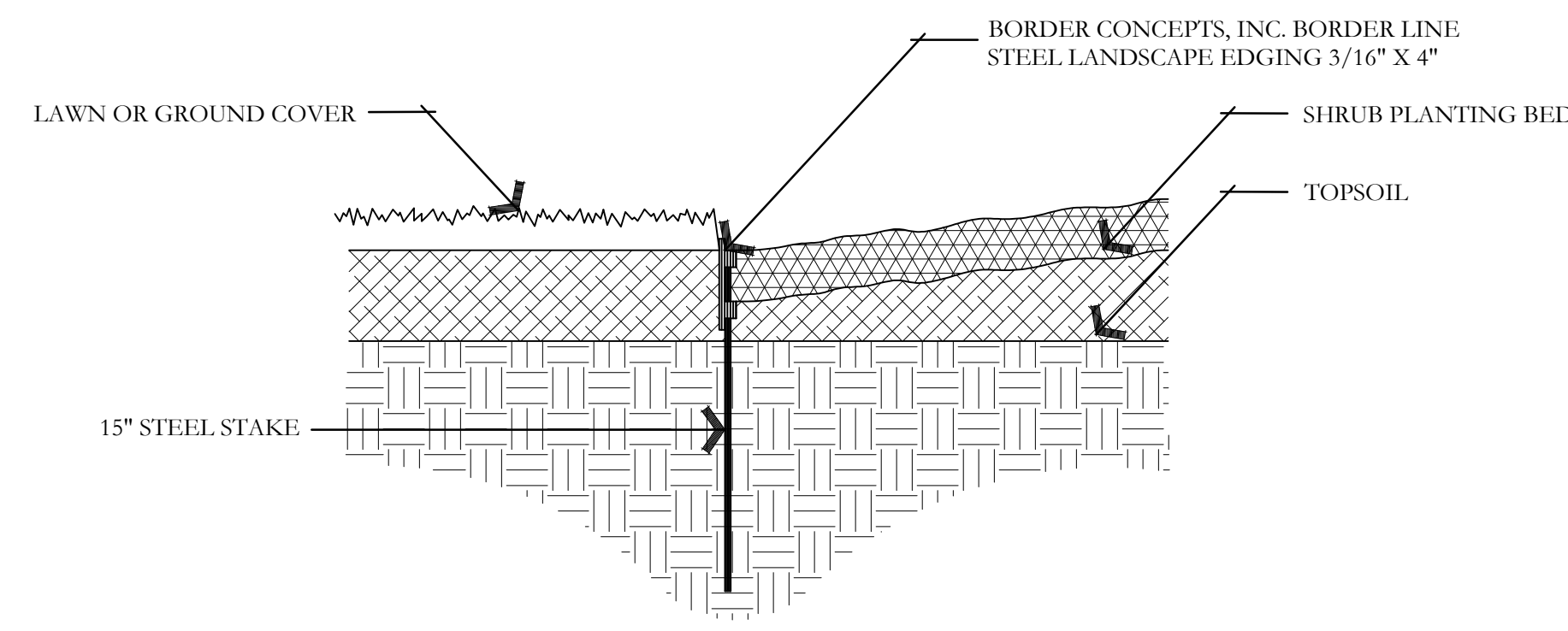
D EVERGREEN TREE PLANTING
NOT TO SCALE



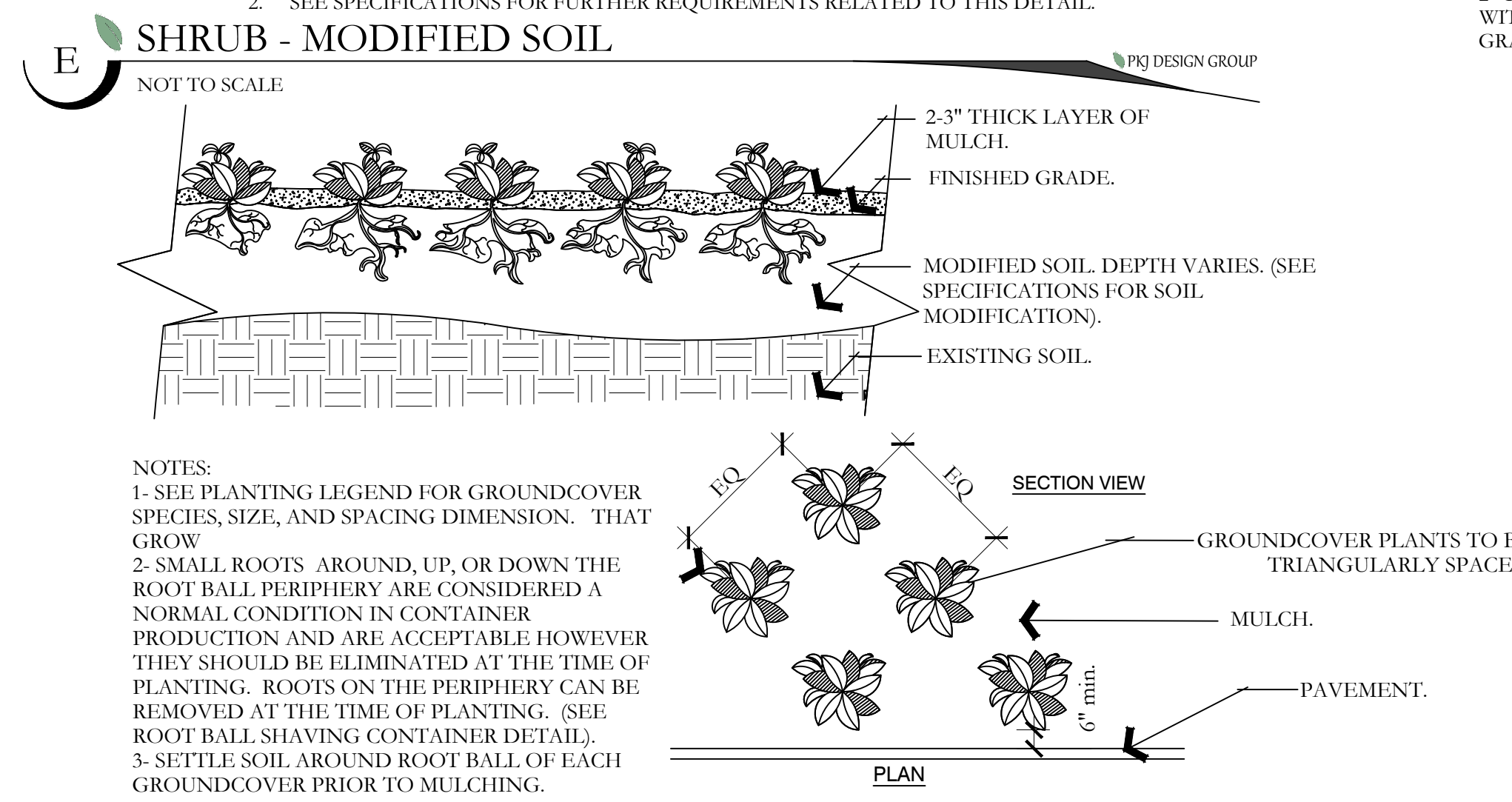
E SHRUB - MODIFIED SOIL
NOT TO SCALE



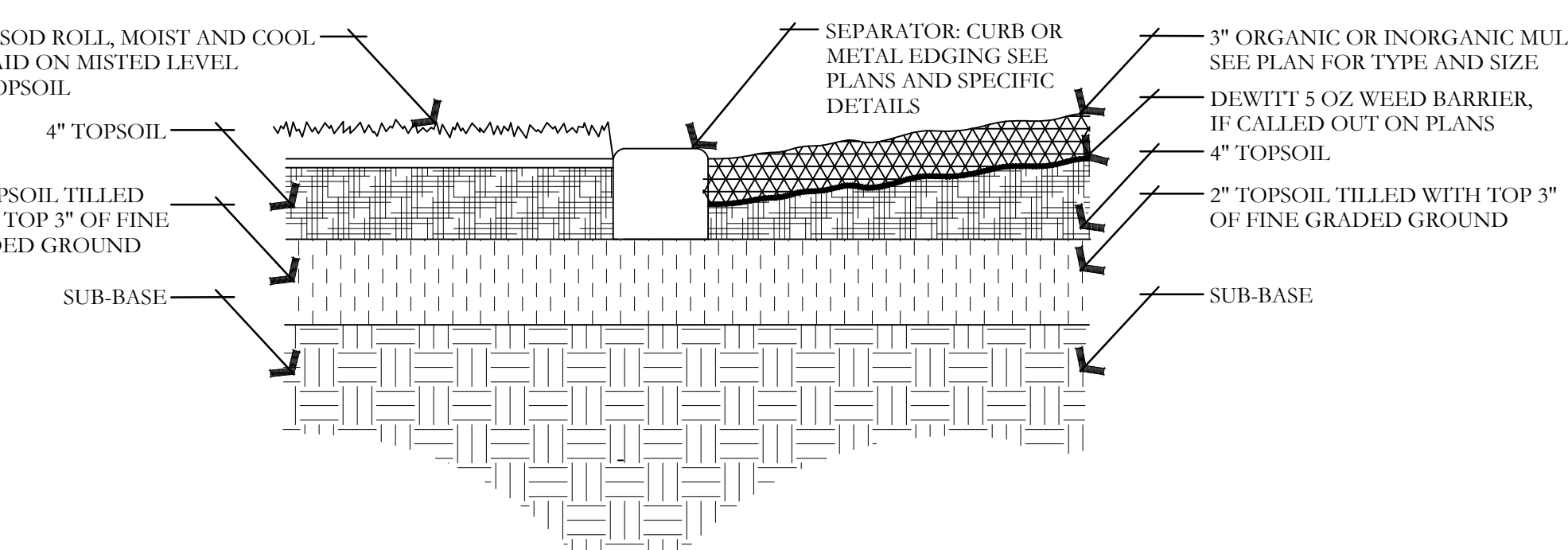
F PERENNIAL PLANTING
NOT TO SCALE



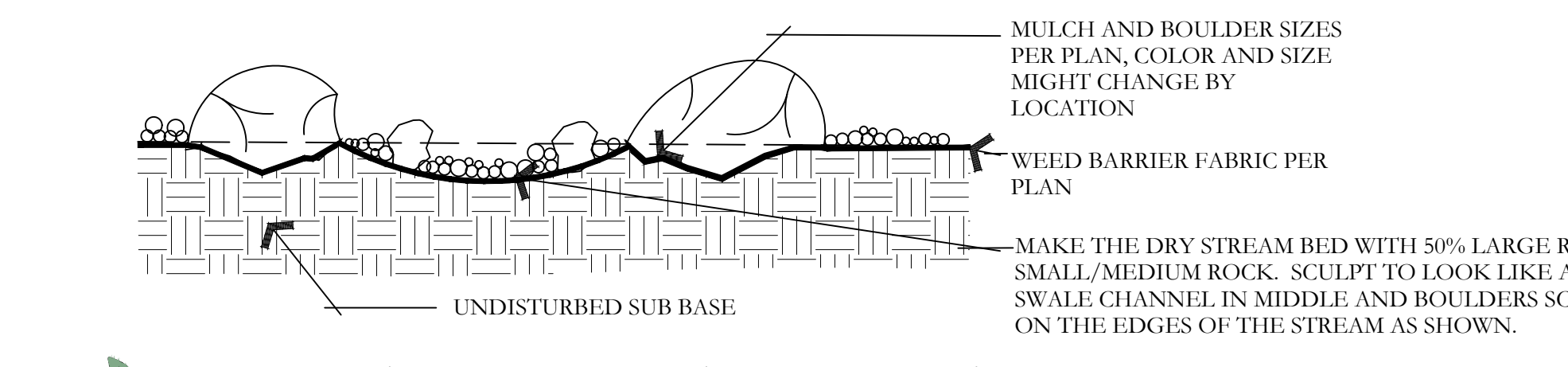
G METAL EDGING DETAIL
NOT TO SCALE



H PERENNIAL/GROUNDCOVER PLANTING
NOT TO SCALE



I SOD LAYING/MULCH DETAIL
NOT TO SCALE



J BOULDER AND DRY STREAM BED DETAIL
NOT TO SCALE

ISSUE DATE	PROJECT NUMBER	PLAN INFORMATION	PROJECT INFORMATION	DEVELOPER / PROPERTY OWNER / CLIENT	LANDSCAPE ARCHITECT / PLANNER	LICENSE STAMP	DRAWING INFO
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11/21/2022 UT22173

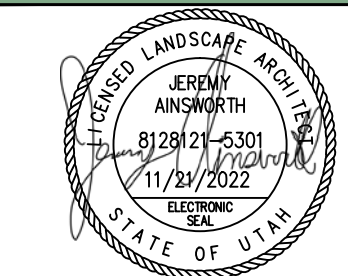
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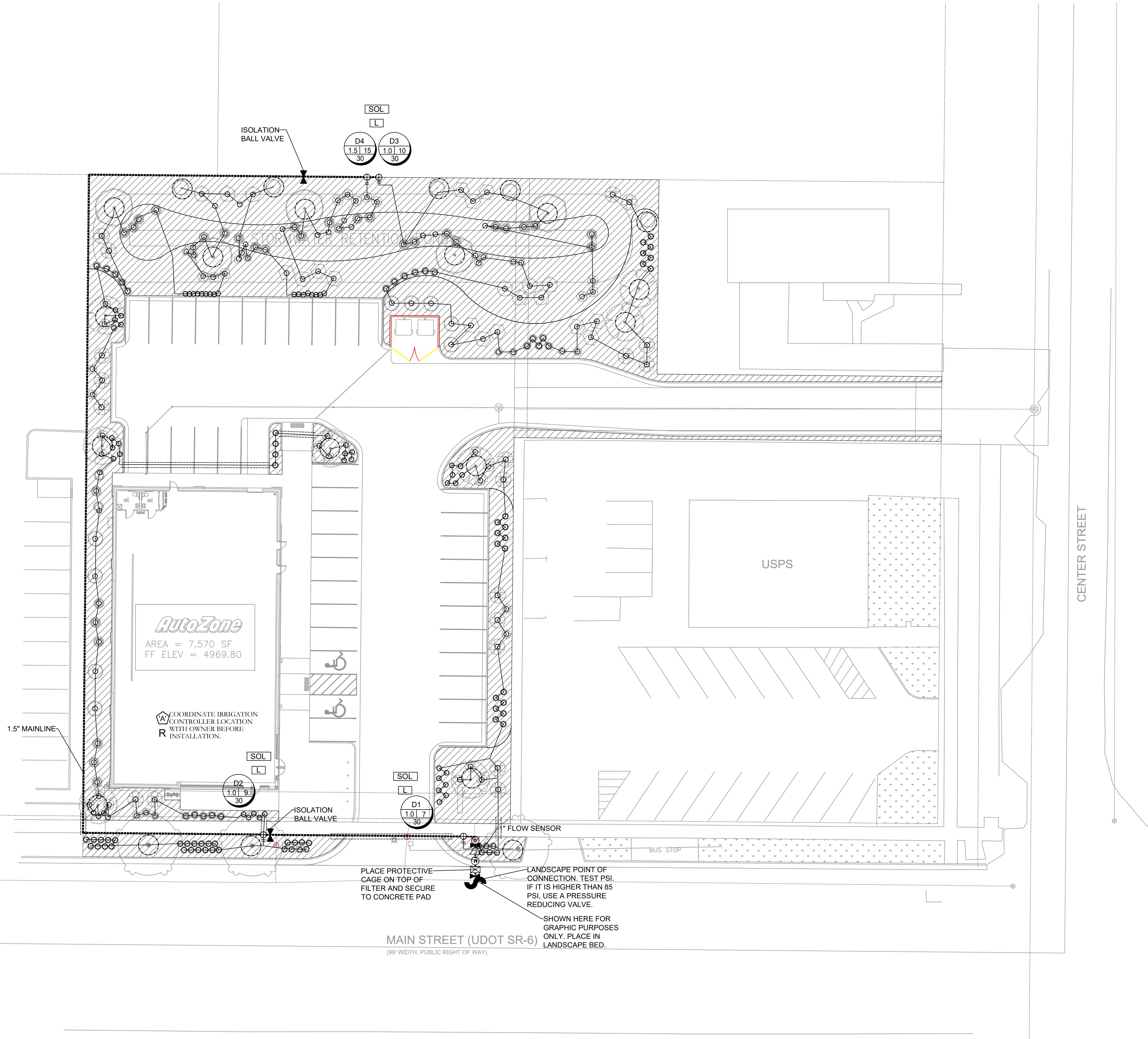
PKJ
DESIGN GROUP
Landscape Architecture • Planning & Visualization
3450 N. TRIUMPH BLVD. SUITE 102
LEHI, UTAH 84043 (801) 753-5644
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DRAWN: ACP
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LANDSCAPE DETAILS
PERMIT SET

LP-501



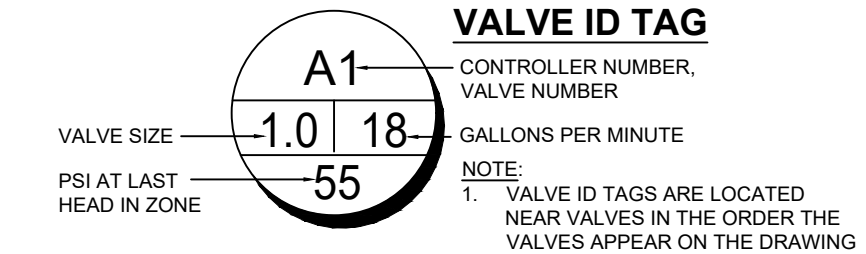
IRRIGATION LEGEND

SYMBOL	MANUFACTURER-MODEL NUMBER
●	RAINBIRD RD04-S-PRS POP UP SPRAY 5 SERIES @ 30 PSI
●	RAINBIRD RD04-S-PRS POP UP SPRAY 8 U-SERIES @ 30 PSI
●	RAINBIRD RD04-S-PRS POP UP SPRAY 10 U-SERIES @ 30 PSI
●	RAINBIRD RD04-S-PRS POP UP SPRAY 12 U-SERIES @ 30 PSI
●	RAINBIRD RD04-S-PRS POP UP SPRAY 15 U-SERIES @ 30 PSI
●	RAINBIRD RD04-S-PRS POP UP SPRAY 15 SST @ 30 PSI
●	RAINBIRD RD04-S-PRS POP UP SPRAY 15 SST @ 30 PSI
●	RAINBIRD 5004+PCR SERIES W/ MPR NOZZLES @ 45 PSI
●	RAINBIRD 8005 SERIES Q#8-6.6 GPM, I#14-12.6 GPM, F#26-24.3 GPM NOZZLES
○	POINT OF CONNECTION (SECONDARY WATER) SEE PLAN FOR SIZE TEST PSI PRESSURE. IF HIGHER THAN 85 PSI USE A PRESSURE REDUCING VALVE.
⊞	CONTROLLER RAINBIRD ESP-LXIVM WITH COMMUNICATION CARTRIDGE (4G/ETHERNET), CONTRACTOR TO ADJUST LOCATION WITH OWNER PRIOR TO CONSTRUCTION.
⊞	RAINBIRD WR2-RC WIRELESS RAIN SHUT OFF DEVICE
⊞	ISOLATION BALL VALVE - LINE SIZED INSTALL PER MANUFACTURER'S SPEC.
⊞	2" T SUPER AMIAD PLASTIC FILTER W/ BRUSHAWAY ASSEMBLY - INSTALL PER MANUFACTURER'S RECOMMENDATIONS (130 MICRONS)
⊞	MASTER VALVE
⊞	FLOW SENSOR - SIZE FLOW SENSOR ACCORDING TO MINIMUM GPM ZONE ON SYSTEM TO MAKE SURE THAT THE FLOW SENSOR IS CAPTURING FLOW. (USE SIZING CHARTS)
⊞	QUICK COUPLER: RAINBIRD 44LR. INSTALL PER MANUFACTURER'S SPEC.
⊞	SMART VALVE IVMSOL. INSTALL PER MANUFACTURER'S SPEC.
⊞	LIGHTNING ARRESTER INSTALL PER MANUFACTURER'S SPEC. (EVERY 500 FT., OR 15 IVM DEVICES MAXIMUM)
⊞	REMOTE CONTROL VALVE: RAINBIRD IVMSOL AUTOMATIC CONTROL VALVE (SIZE AS NOTED ON PLAN - USE RAINBIRD JUMBO BOX - PURPLE LID) PLACE YELLOW TAGS ON ALL VALVES AND LABEL
⊞	DRIP CONTROL ZONE KIT: RAINBIRD XGZ100VM - FLOW INDICATING BASKET FILTER (PER PLAN) - PRBR-COM MED FLOW (SIZE AS NOTED ON PLAN)
⊞	MAINLINE: SCHEDULE 40 PVC WITH SCHEDULE 80 FITTINGS, 2" DIAMETER 24" MIN. COVER
⊞	LATERAL LINE: SCHEDULE 40 PVC WITH SCH. 40 FITTINGS.
⊞	PIPE SIZING: 1"=1", 1 1/2"=1 1/2", 2"=2". SEE PIPE SIZING CHART BELOW FOR LARGER SIZES.
⊞	DRIP RWS-S-B-1401 (ROOT WATERING SYSTEM PROVIDE 2 TO EACH TREE)
⊞	DRIP LINE: RAINBIRD XIS-CV-09-18 OR EQUIVALENT
⊞	CLASS 200 SLEEVE PER PLAN
NO SYMBOL	WIRE CHASE, SIZE TO BE TWICE THE DIAMETER OF THE WIRE BUNDLE WITHIN. 1.1/4" DIAMETER MINIMUM
	14 GAUGE SOLID COPPER SINGLE STRAND CONTROL WIRE. INSTALL PER MANUFACTURER'S SPEC. PROVIDE 2 WIRE LOOP SYSTEM. ONLY WIRE PERMITTED TO CONTROL IS SHOWN ON PLANS. CONTRACTOR TO INSTALL WIRE IN CONDUIT (BLACK 3/4" POLY PIPE) IN MAINLINE TRENCH FROM POC TO ALL VALVES. THE WIRE TO VALVE IS NOT SHOWN ON PLAN

DRIP ZONE

TYPE	PART NUMBER	EMITTER FLOW
XIS DRIFLINE	XIS-CV-09-18	9 GPH
SHRUBS-DRIP LINE	RAINBIRD XIS-CV-09-18 OR EQUIVALENT	*EACH ZONE NOT TO EXCEED 20 GPM
TREES-DRIP LINE	RAINBIRD XIS-CV-09-18 OR EQUIVALENT	*EACH ZONE NOT TO EXCEED 20 GPM
		*ONLY WATER PLANT SPECIFICALLY. DO NOT WATER ROCK AREA WITH NO PLANTS
		*SEE DETAILS FOR SHRUB AND TREE DRIFLINE CONFIGURATION

- ### IRRIGATION NOTES
- BEFORE WORK IS TO COMMENCE, BLUE STAKES/DIG LINE IS TO BE CALLED AND NOTIFIED. IF ANY DAMAGE TO UTILITIES HAPPEN DURING CONSTRUCTION, THE CONTRACTOR SHALL REPAIR IT AT THEIR EXPENSE WITH NO ADDITIONAL COST TO THE OWNER.
 - CONTRACTOR SHALL APPLY AND PAY FOR ALL NECESSARY PERMITS IN ACCORDANCE WITH CITY AND/OR COUNTY CODES AND COMPLY WITH SPECIFICATIONS AND DRAWINGS.
 - INVESTIGATE TO MAKE SURE THAT THE IRRIGATION SYSTEM IS, IN FACT, BEING CONNECTED TO A SECONDARY SYSTEM. IF IT IS NOT CONNECTED TO SECONDARY, CONTACT THE OWNER AND LANDSCAPE ARCHITECT TO COORDINATE A CULINARY SYSTEM AND REQUIRED COMPONENTS. A FUNCTIONING AMIAD FILTER IS TO BE USED AT THE POINT OF CONNECTION.
 - VERIFY THAT THE POINT OF CONNECTION IS IN THE CORRECT LOCATION BEFORE INSTALLATION. ALL CONNECTIONS ON THIS PROJECT ARE TO SECONDARY WATER AND SHOULD BE NOTED AS SUCH. THEREFORE, ALL PARTS MUST MEET WATER STANDARDS THAT PERTAIN TO SECONDARY WATER USE. PURPLE VALVE BOXES FOR SECONDARY WATER SYSTEMS.
 - ON OCCASION AND FOR GRAPHIC PURPOSES ONLY, THE IRRIGATION SYSTEM MIGHT BE SHOWN IN HARDSCAPE AREAS. THIS IRRIGATION IS TO BE PLACED IN LANDSCAPED AREAS ON THE PROPERTY SITE.
 - CONTRACTOR SHALL USE ONLY COMMERCIAL GRADE IRRIGATION PRODUCTS. THIS INCLUDES PIPE TO BE SCHEDULE 40 PVC OR BETTER. NO POLY PIPE IS TO BE USED. FITTINGS UP TO 1-1/2" MUST BE SCHEDULE 40 OR BETTER. FITTINGS LARGER THAN 1-1/2" SHALL BE SCHEDULE 80 OR BETTER. CONTRACTOR IS RESPONSIBLE FOR ENSURING ACCURATE COUNTS AND QUANTITIES OF ALL IRRIGATION MATERIALS FOR BIDDING AND INSTALLATION.
 - MAIN LINES SHALL BE A MINIMUM OF 24" DEEP AND LATERAL LINES A MINIMUM OF 12" DEEP. NO ROCK GREATER THAN 1 1/2" DIAMETER SHALL BE ALLOWED IN TRENCHES. TRENCHING BACKFILL MATERIAL SHALL BE COMPACTED TO PROPER FINISHED GRADE.
 - NO IRRIGATION MAIN LINE MAY BE LOCATED WITHIN 5 FEET OF ANY STRUCTURE.
 - TO AVOID PIPE DAMAGE, ADJUST LOCATION OF PIPE TO NOT BE DIRECTLY UNDER PLANT MATERIALS. VALVE BOXES ARE PREFERRED TO BE IN PLANTER BEDS INSTEAD OF THE LAWN. SYSTEM IS TO BE WINTERIZED IN THE LATE FALL.
 - PLAN INDICATES 100% OR BETTER HEAD TO HEAD COVERAGE. SHOULD CONTRACTOR FIND DISCREPANCIES DUE TO NECESSARY FIELD ADJUSTMENTS, CONTACT LANDSCAPE ARCHITECT FOR IRRIGATION CORRECTION.
 - DRIP IRRIGATION TO BE INSTALLED PER DETAILS. CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS. TUBING SHOULD REST TOWARD OUTER EDGE OF ROOTBALL AND NOT AGAINST TRUNK OF PLANT.
 - A QUICK COUPLER SHALL BE INSTALLED AT POINT OF CONNECTION TO ALLOW BLOW OUT OF SYSTEM BY AIR COMPRESSOR AT END OF EACH SEASON.
 - INSTALL SLEEVES FOR ALL PIPES AND WIRE CONDUIT THAT ARE PLACED UNDER PAVEMENT AND SIDEWALKS. SLEEVES SHALL BE 2 SIZES LARGER THAN PIPE BEING PLACED INTERNALLY. WIRE CONDUIT SHALL BE INSTALL IN CLASS 200 PIPE AT ALL DIRECTIONAL CHANGE THAT OCCURS, A JUNCTION BOX IS TO BE PLACED.
 - CONDUITS CAN NOT BE SHARED BY WATER AND ELECTRICAL LINES. ALL WIRE TO BE PUT IN PVC CONDUIT. ALL WIRE CONNECTIONS TO BE PLACED IN A VALVE BOX. ALL WIRE CONNECTIONS TO USE WATERPROOF WIRE CONNECTIONS WITH AT LEAST 3" OF EXTRA WIRE. PROVIDE PLENTY OF EXTRA WIRE AT EVERY DIRECTIONAL CHANGE. UNLESS OTHERWISE DIRECTED BY OWNER OR LANDSCAPE ARCHITECT.
 - CONTRACTOR TO INSTALL LIGHTNING ARRESTOR AND GROUNDING RODS ON SITE PER MANUFACTURER'S RECOMMENDATIONS, SEE DETAILS.
 - CONTRACTOR TO SEPARATE SYSTEM (CONTROLLER, VALVES, AND DIFFERENT COLORED WIRE) FROM CITY MAINTAINED PROPERTY AND HOA/OWNER MAINTAINED PROPERTY.
 - DUCT TAPE ALL SLEEVES TO PREVENT SOIL OR OTHER DEBRIS ENTERING PIPE. IDENTIFY ALL SLEEVES BY WOOD OR PVC STAKES AND SPRAY PAINT WITH MARKING PAINT. REMOVE STAKES ONCE IRRIGATION SYSTEM IS COMPLETE.
 - TO PREVENT EROSION AND LOW POINT DRAINAGE CONTRACTOR SHALL INSTALL CHECK VALVES
 - LOCATE SPRAY HEADS NO CLOSER THAN 6" FROM WALLS, FENCES OR BUILDINGS AND 2" AWAY FROM WALKS, PATHS OR CURBS.
 - PRESSURE TEST MAINLINE FOR LEAKS PRIOR TO BACKFILLING. CONTACT LANDSCAPE ARCHITECT/OWNER AT THIS TIME FOR COMPLIANCE.
 - CONTRACTOR TO CONSULT WITH OWNER ON EXACT LOCATION OF CONTROLLER. CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR AND OWNER FOR THE POWER SUPPLY. INSTALL ALL PER MANUFACTURER'S SPECIFICATIONS. CONTRACTOR SHALL INSTALL A RAIN SENSOR WITH THE CONTROLLER UNLESS OTHERWISE DIRECTED BY OWNER OR LANDSCAPE ARCHITECT.
 - LATERAL LINES SHALL BE NO SMALLER THAN 3/4". LANDSCAPE CONTRACTOR TO ENSURE THE FOLLOWING PIPE SIZES DO NOT EXCEED THE SUGGESTED GPM LISTED BELOW:
- | PIPE SIZE | GPM |
|------------|---------|
| I 3/4" | 8 GPM |
| II 1" | 12 GPM |
| III 1-1/2" | 30 GPM |
| IV 2" | 55 GPM |
| V 2-1/2" | 75 GPM |
| VI 3" | 110 GPM |
| VII 4" | 180 GPM |
- NOTE: VALVE ID TAGS ARE LOCATED NEAR VALVES IN THE ORDER THE VALVES APPEAR ON THE DRAWING



ISSUE DATE: 11/21/2022 PROJECT NUMBER: UT22173 PLAN INFORMATION: PROJECT INFORMATION: DEVELOPER / PROPERTY OWNER / CLIENT: LANDSCAPE ARCHITECT / PLANNER: LICENSE STAMP: DRAWING INFO:

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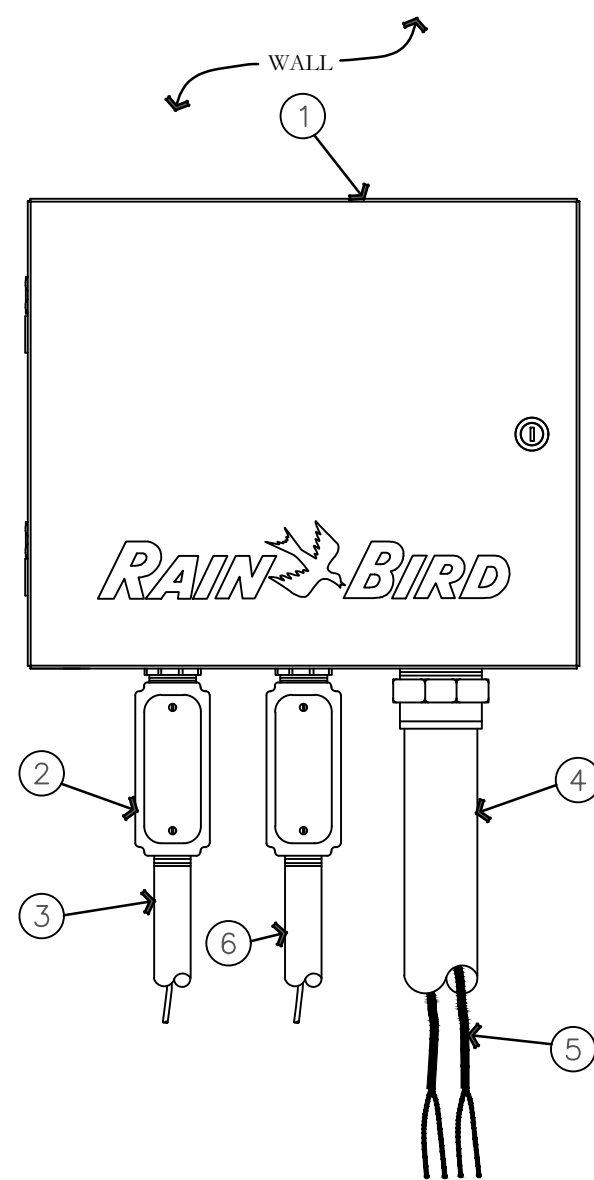
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IRRIGATION PLAN
PERMIT SET
IR-101



- 1 TWO-WIRE CONTROLLER: RAIN BIRD ESP-LXIVM/PRO IN LXMM METAL CABINET WITH OUTSIDE WALL MOUNT. INSTALL CONTROLLER AND CABINET ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
- 2 JUNCTION BOX
- 3 1-INCH CONDUIT AND FITTINGS FOR POWER SUPPLY WIRE
- 4 2-INCH CONDUIT AND FITTINGS FOR TWO-WIRE CABLE
- 5 MAXICABLE TWO-WIRE PATH TO FIELD DEVICES, USE A DIFFERENT CABLE JACKET COLOR FOR EACH PATH.
- 6 1-INCH CONDUIT AND FITTINGS FOR GROUND WIRE. ONLY FOR OUTDOOR INSTALLATIONS.

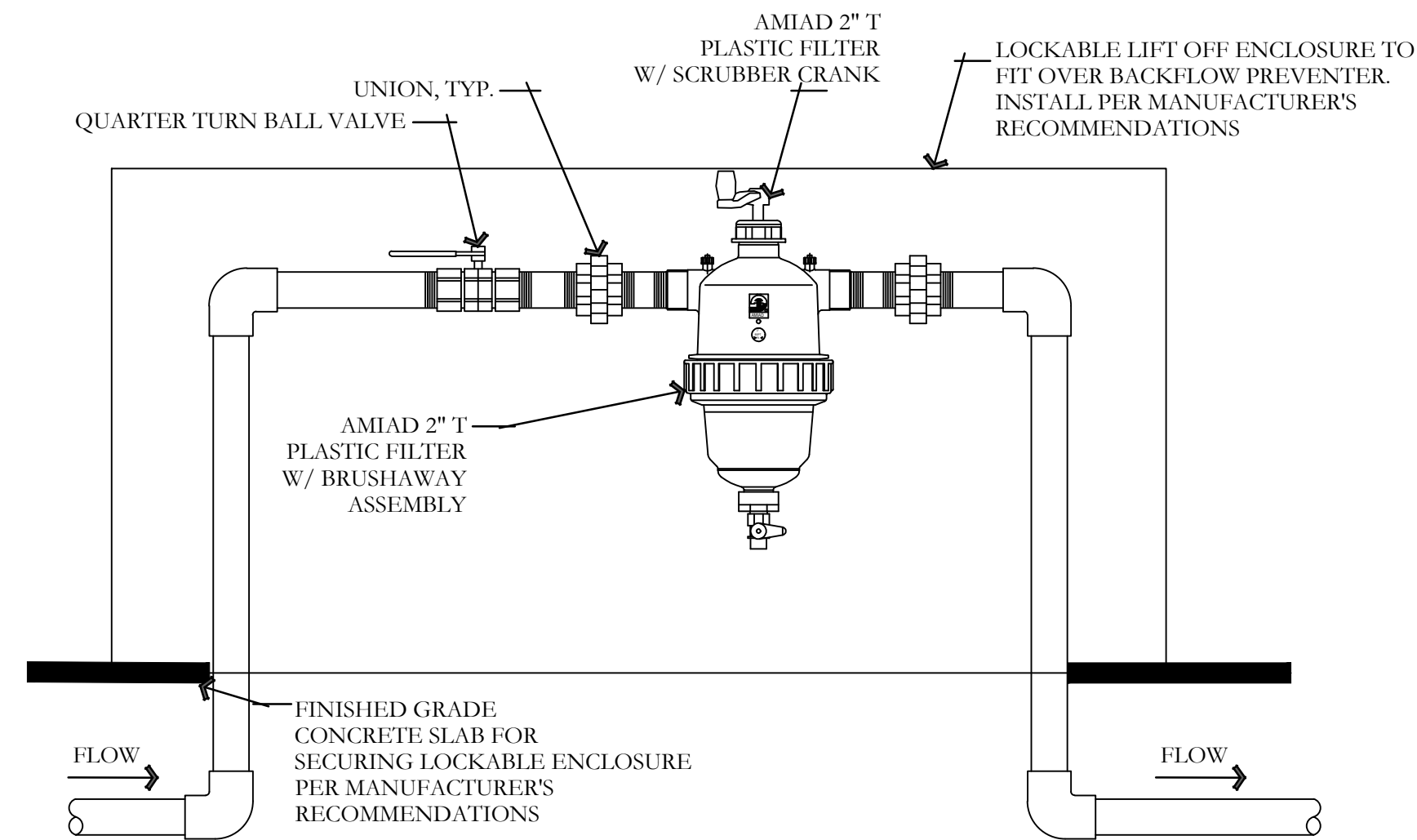
NOTES:
 1. ESP-LXIVM CONTROLLER IS AVAILABLE IN TWO MODELS: THE LXIVM WITH 60 STATIONS AND THE LXIVM-PRO WITH 240 STATIONS. REFER TO THE CHART BELOW FOR DIFFERENCES BETWEEN THE TWO MODELS.
 2. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.
 3. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS. IF CONTROLLER IS MOUNTED INDOORS, USE POWER SUPPLY GROUND.

KEY SPECIFICATIONS

FEATURE	MODEL	MAX PROGRAMS	MAX STATIONS	MAX SIMULATIONS	MASTER VALVES	FLOW SENSORS	WEATHER SENSORS
	LX-IVM	10	60	8	9	9	4
	LX-IVM PRO	40	240	16	10	10	8

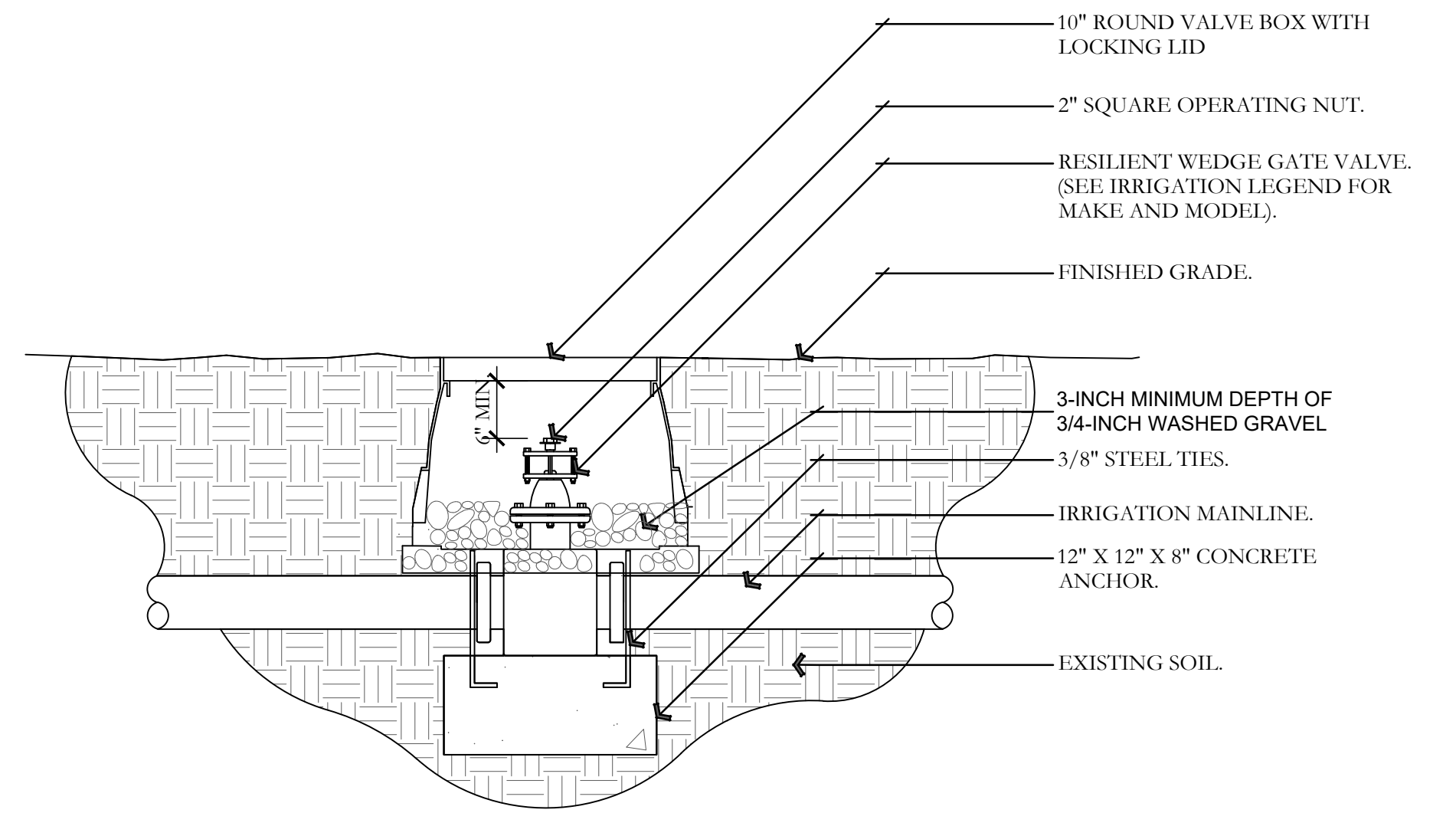
A ESP-LXIVM/PRO TWO-WIRE CONTROLLER IN METAL CABINET

NOT TO SCALE



B 2" PLASTIC FILTER W/ BRUSHAWAY ASSEMBLY

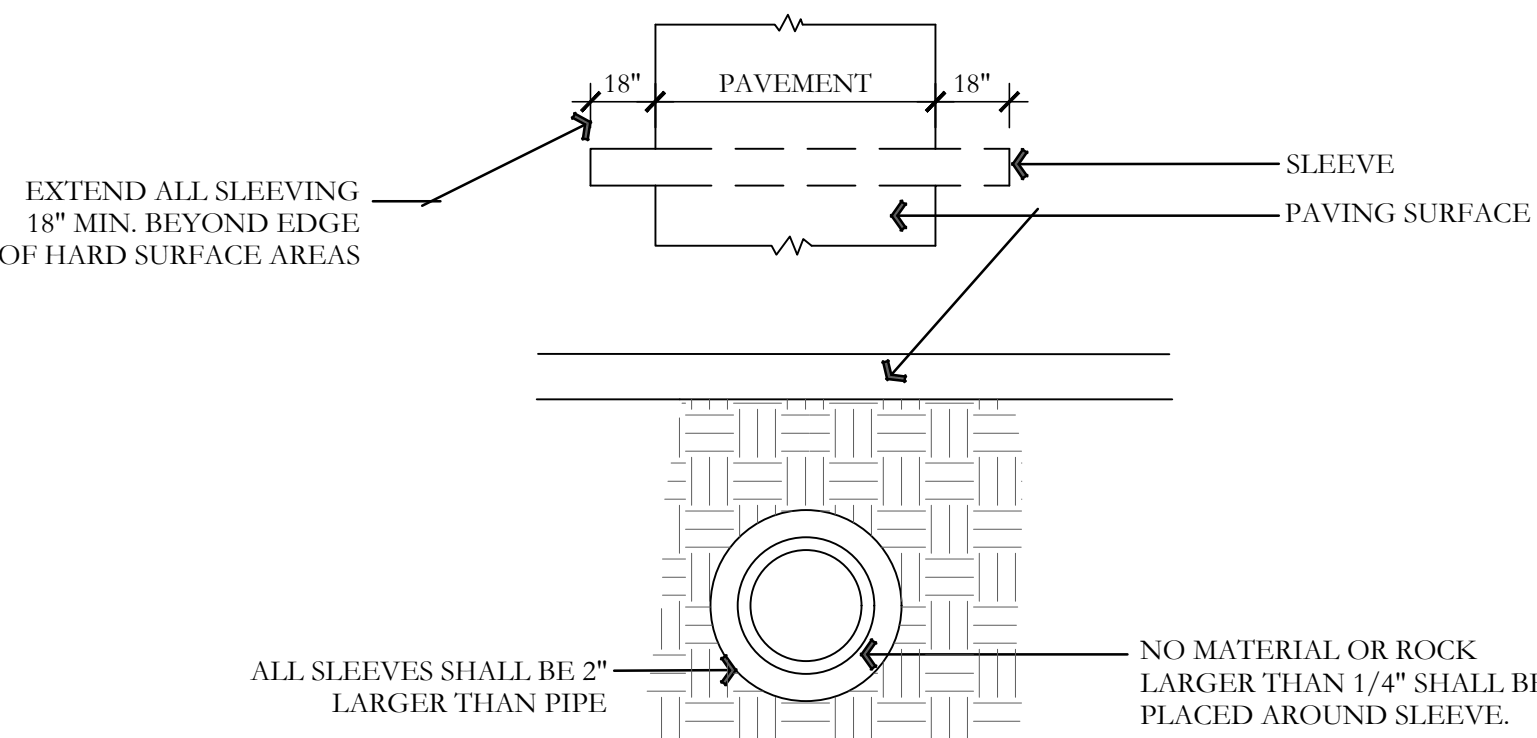
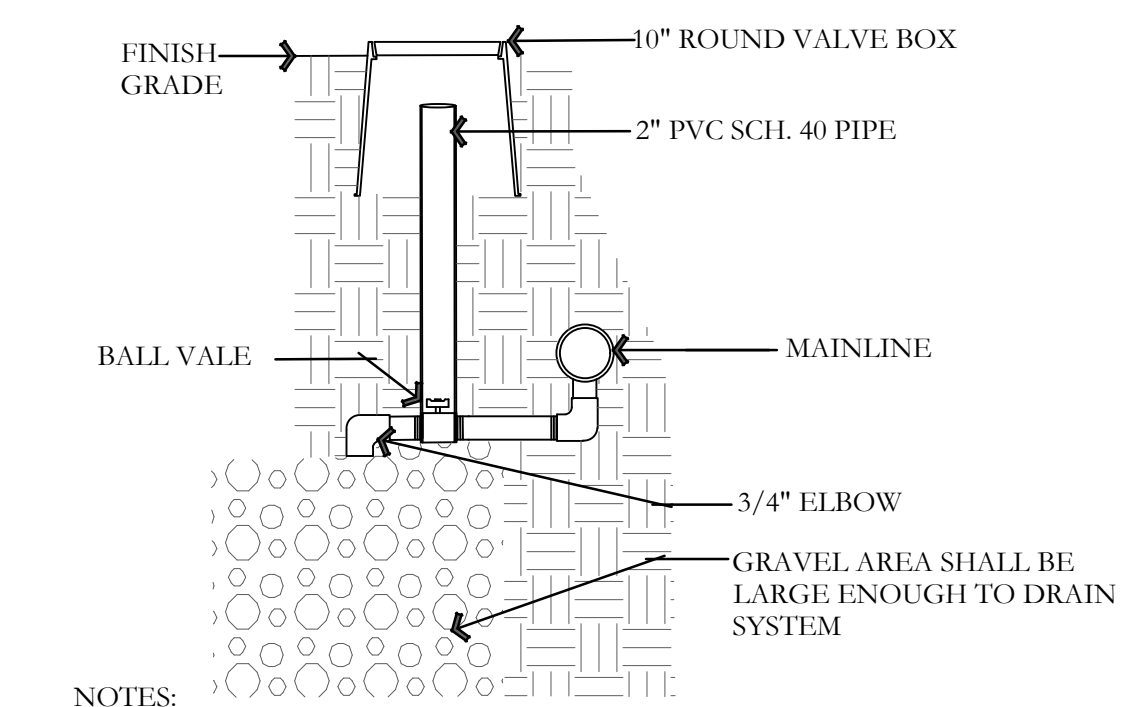
NOT TO SCALE



- NOTES:
 1. INSTALL GATE VALVE PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
 2. VALVE BOX SHALL BE WRAPPED WITH MINIMUM 3 MIL THICK PLASTIC AND SECURE IT TO VALVE BOX USING DUCT TAPE OR ELECTRICAL TAPE.
 3. VALVE BOX SHALL BE LOCATED IN PLANTING AREA.

C GATE VALVE AND ANCHOR DETAIL

NOT TO SCALE



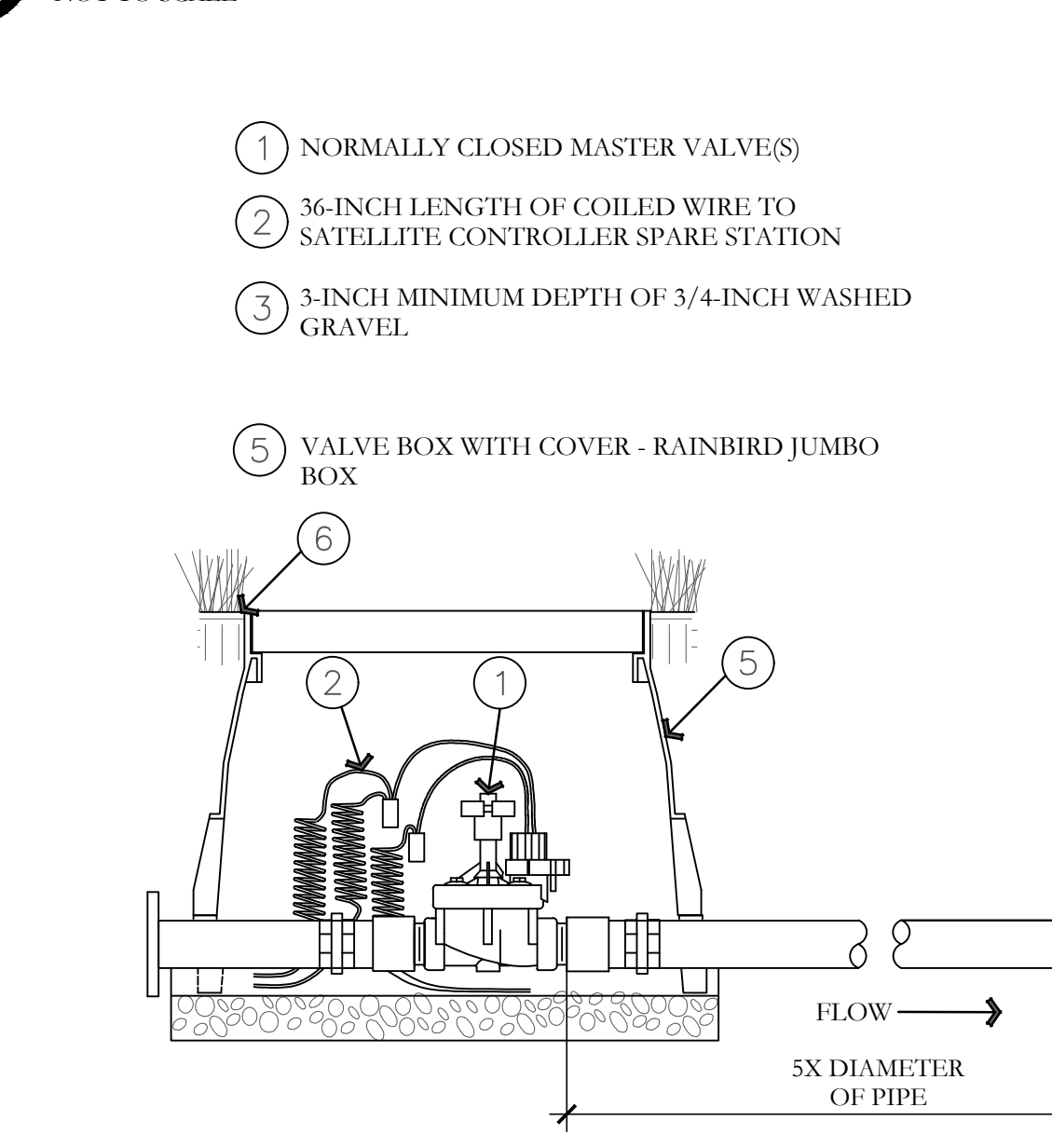
- NOTES:
 1. SEE IRRIGATION LEGEND FOR MAINLINE AND LATERAL LINE PIPE SIZE AND TYPE.
 2. DIRECT BURIAL CONTROL WIRES SHALL BE INSTALLED IN SCH. 40 PVC ELECTRICAL CONDUIT IF REQUIRED.
 3. 2-WIRE IRRIGATION WIRE SHALL BE INSTALLED IN SCH. 40 PVC ELECTRICAL CONDUIT.
 4. DETECTABLE LOCATOR TAPE SHALL BE LOCATED SIX INCHES (6") ABOVE THE ENTIRE MAINLINE RUN.

E IRRIGATION TRENCHING DETAIL

NOT TO SCALE

F MANUAL DRAIN DETAIL

NOT TO SCALE



G QUICK COUPLER DETAIL

NOT TO SCALE

H STOP AND WASTE VALVE ASSEMBLY DETAIL

NOT TO SCALE

I MASTER VALVE AND FLOW SENSOR DETAIL

NOT TO SCALE

ISSUE DATE PROJECT NUMBER PLAN INFORMATION

11/21/2022 UT22173

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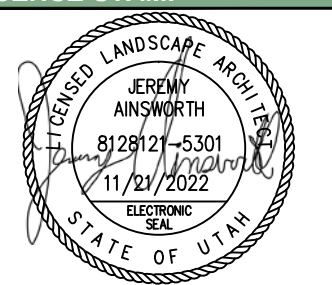
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LANDSCAPE ARCHITECT / PLANNER

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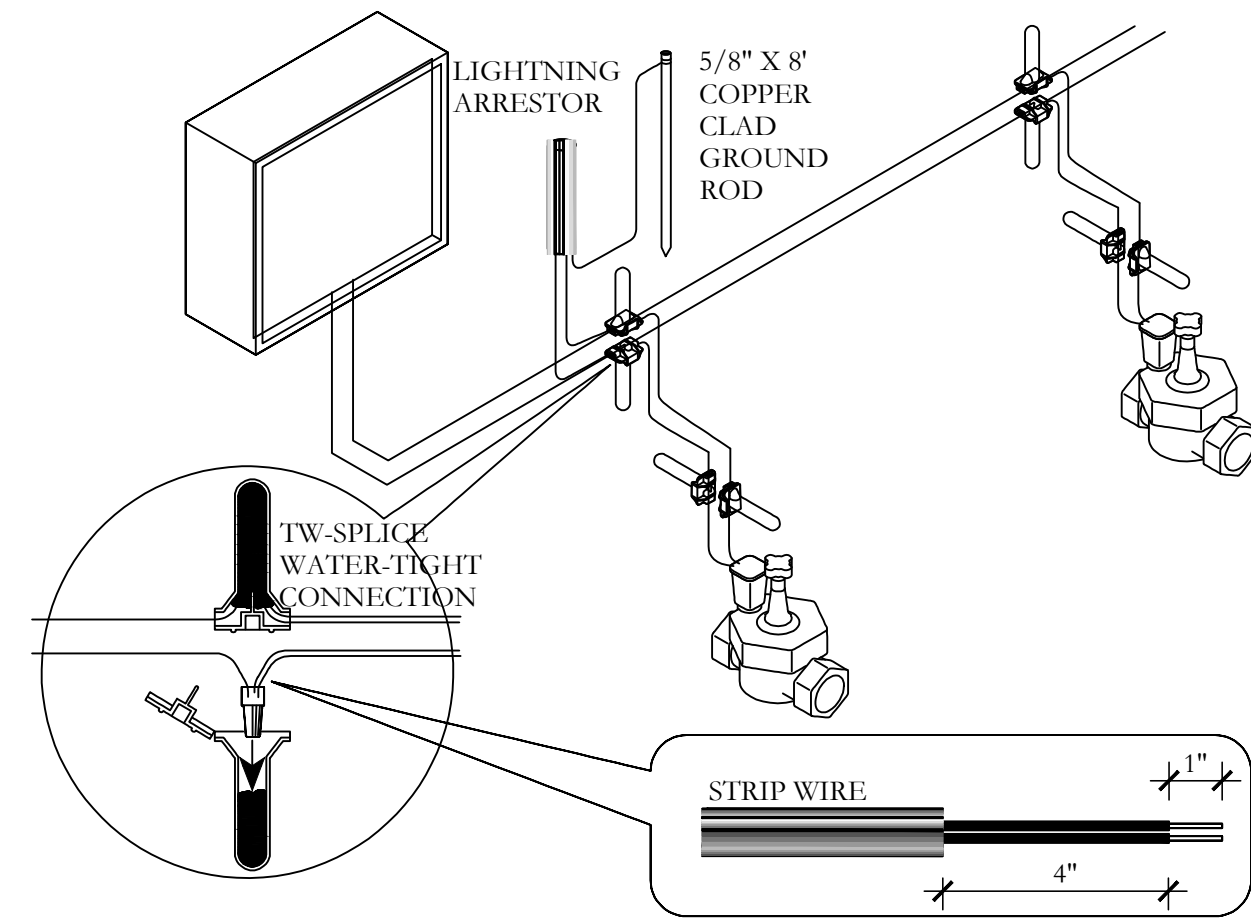
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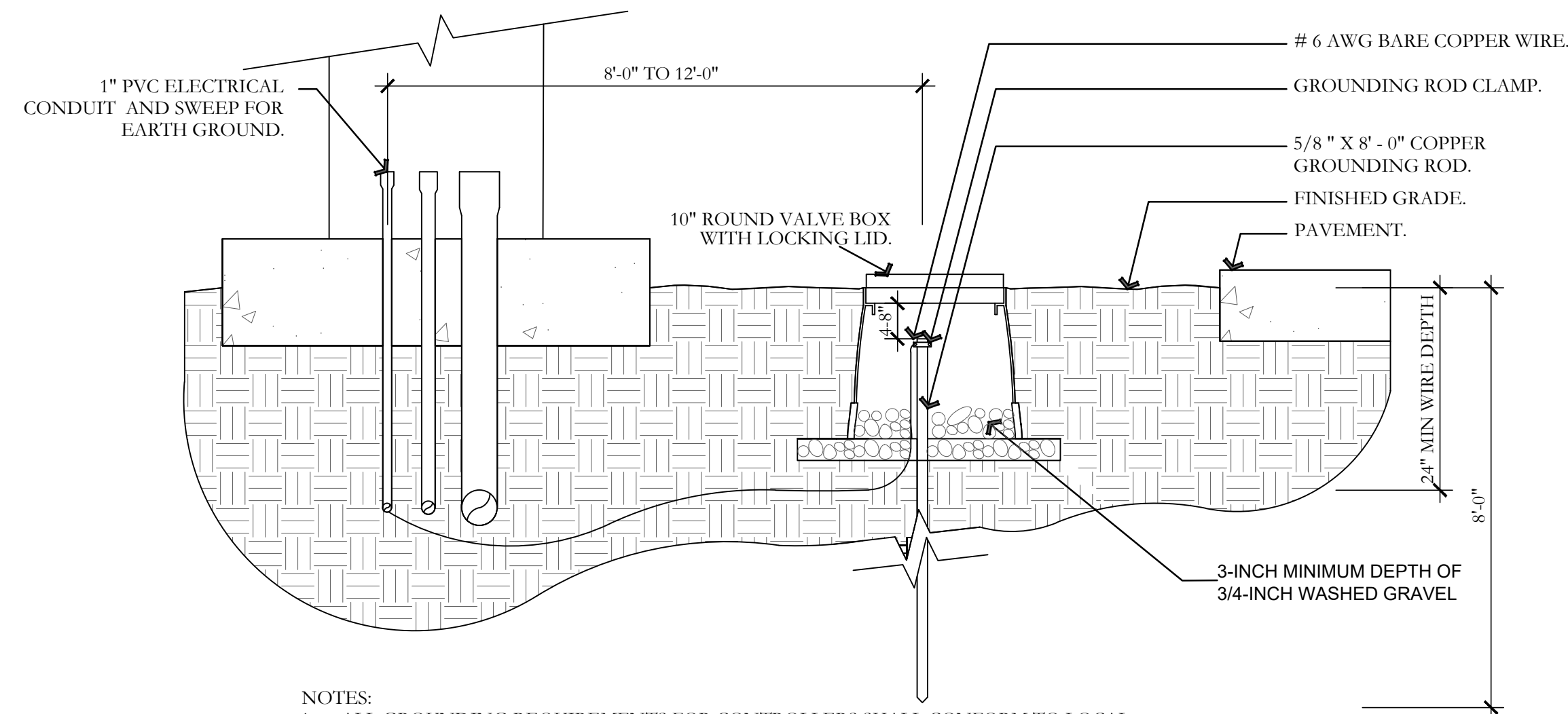
IRRIGATION DETAILS

PERMIT SET

IR-501

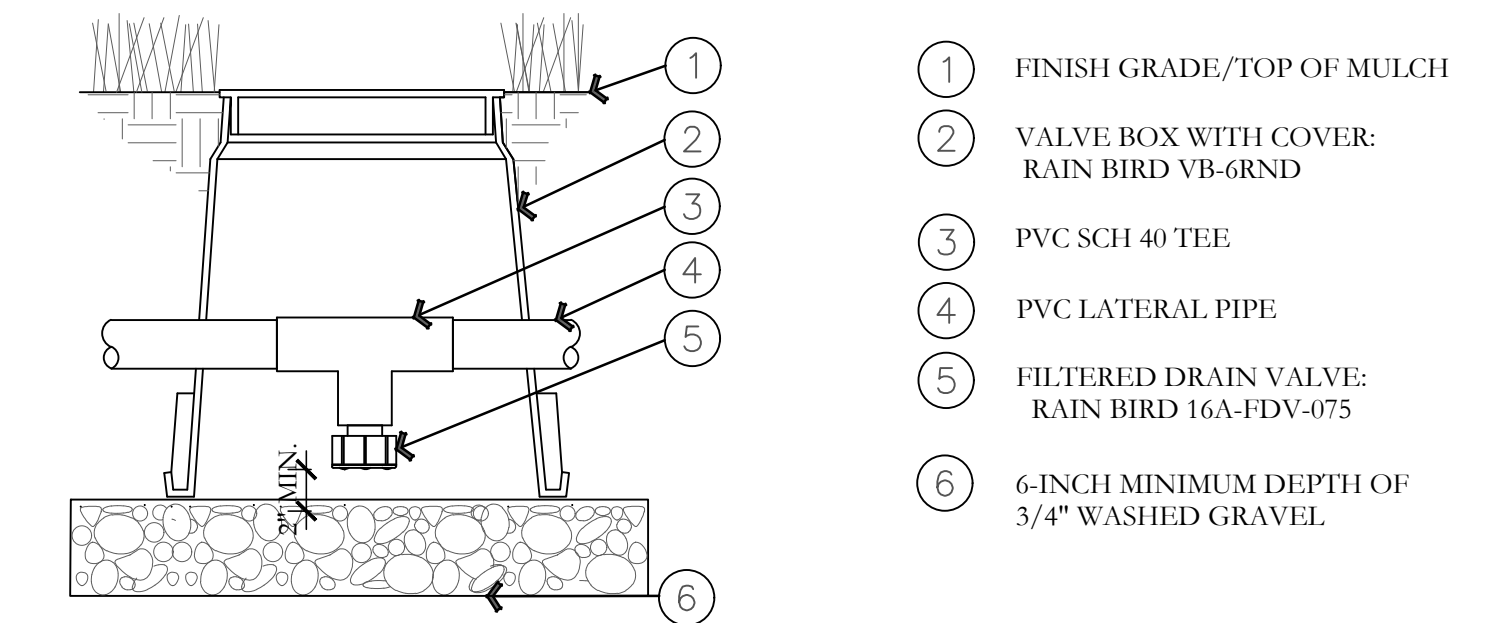


J 2-WIRE CONNECTION DETAIL
NOT TO SCALE

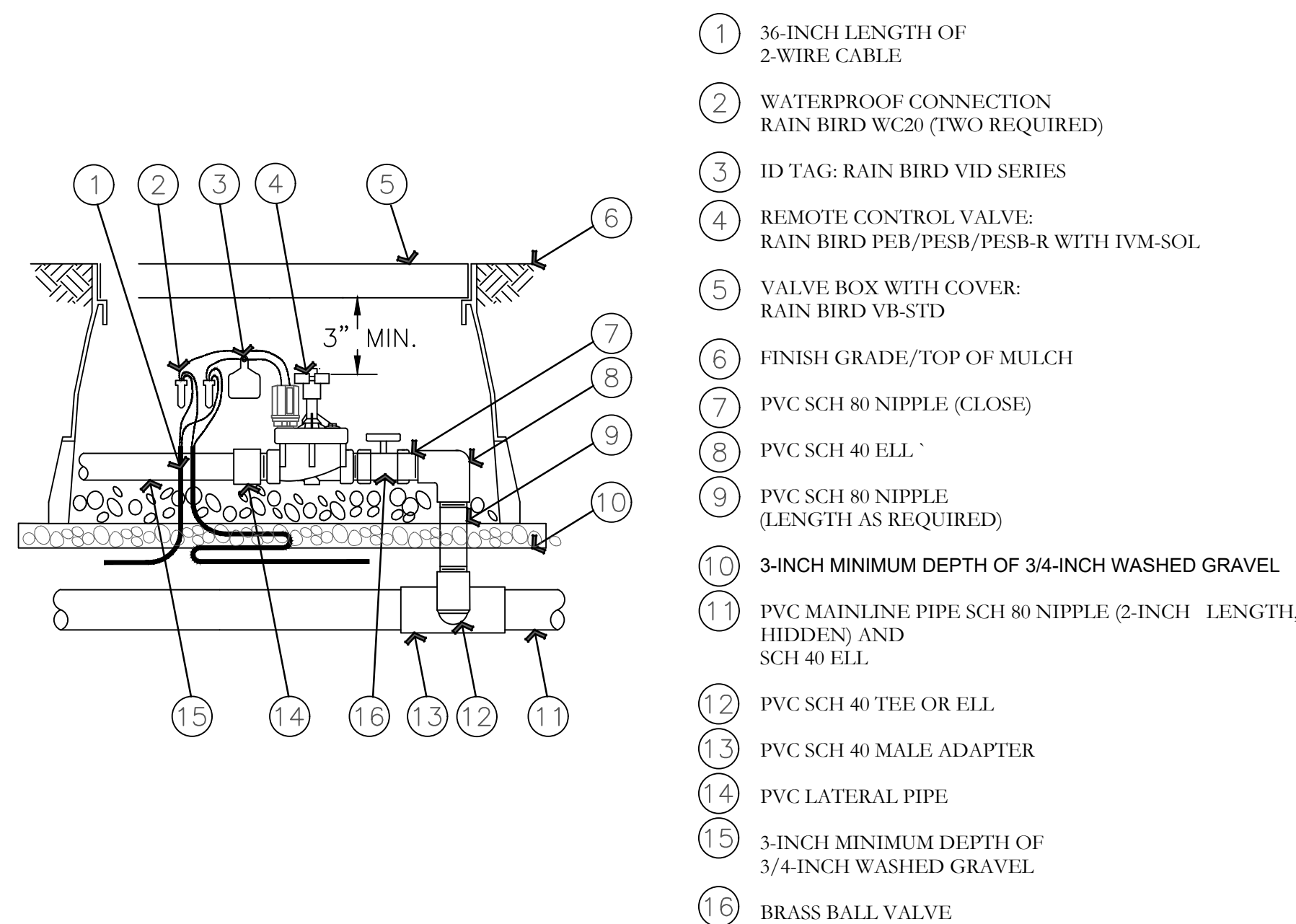


- NOTES:
1. ALL GROUNDING REQUIREMENTS FOR CONTROLLERS SHALL CONFORM TO LOCAL ELECTRIC CODES.
 2. GROUNDING ROD SHALL NOT BE LOCATED IN THE SAME TRENCH AS THE IRRIGATION MAINLINES OR LATERAL LINES.
 3. VALVE BOX SHALL BE WRAPPED WITH A MINIMUM 3 MIL THICK PLASTIC AND SECURED TO THE VALVE BOX USING DUCT TAPE OR ELECTRICAL TAPE.
 4. INSTALL GROUNDING ROD PER THE CONTROLLER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

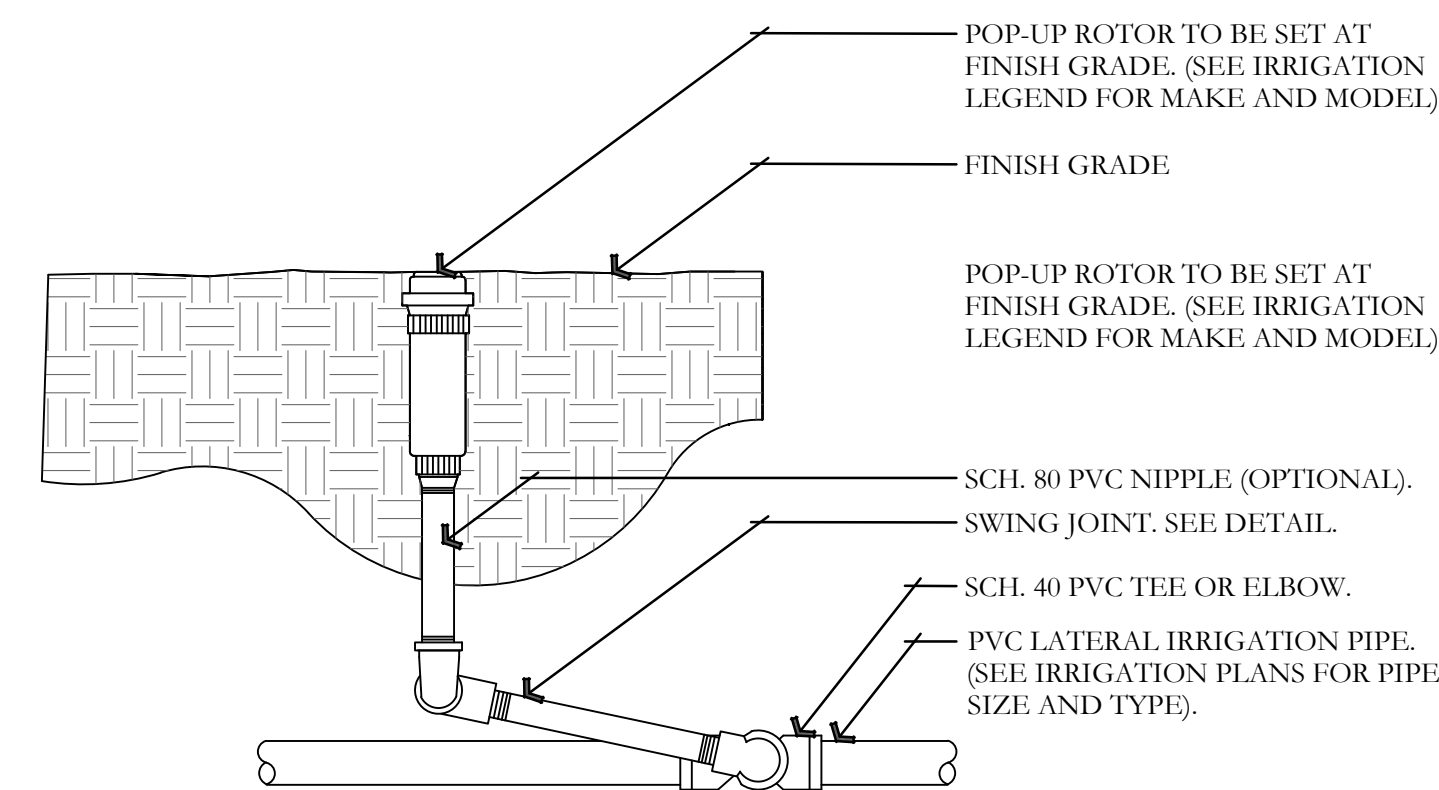
K GROUNDING ROD DETAIL
NOT TO SCALE



L MANUAL LINE DRAIN VALVE DETAIL
NOT TO SCALE

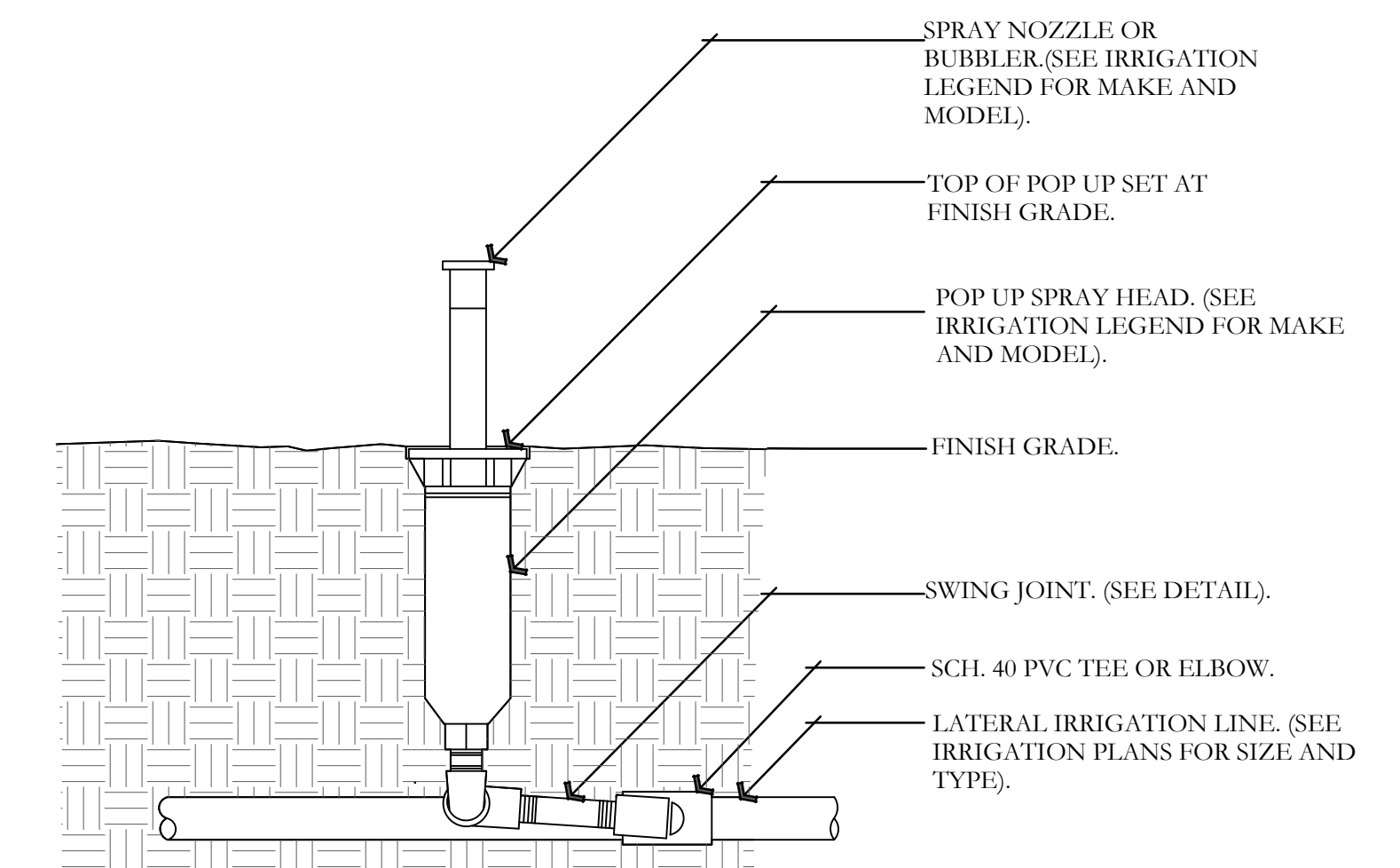


M ELECTRIC REMOTE-CONTROL VALVE PEB OR PESB SERIES WITH IVM-SOL
NOT TO SCALE



- NOTES:
1. ALL THREADED CONNECTION POINTS BETWEEN SCH. 40 PVC AND SCH. 80 PVC FITTING SHALL BE INSTALLED USING TEFLON TAPE.
 2. CONTRACTOR SHALL COMPACT SOIL AROUND ROTOR AND RISER PRIOR TO PLANTING, PLUGGING, SEEDING, OR LAYING OF SOD.

N ROTOR HEAD DETAIL
NOT TO SCALE



- NOTE:
1. 4\"/>

O POP UP-SPRAY HEAD DETAIL
NOT TO SCALE

ISSUE DATE	PROJECT NUMBER	PLAN INFORMATION	PROJECT INFORMATION	DEVELOPER / PROPERTY OWNER / CLIENT	LANDSCAPE ARCHITECT / PLANNER	LICENSE STAMP	DRAWING INFO
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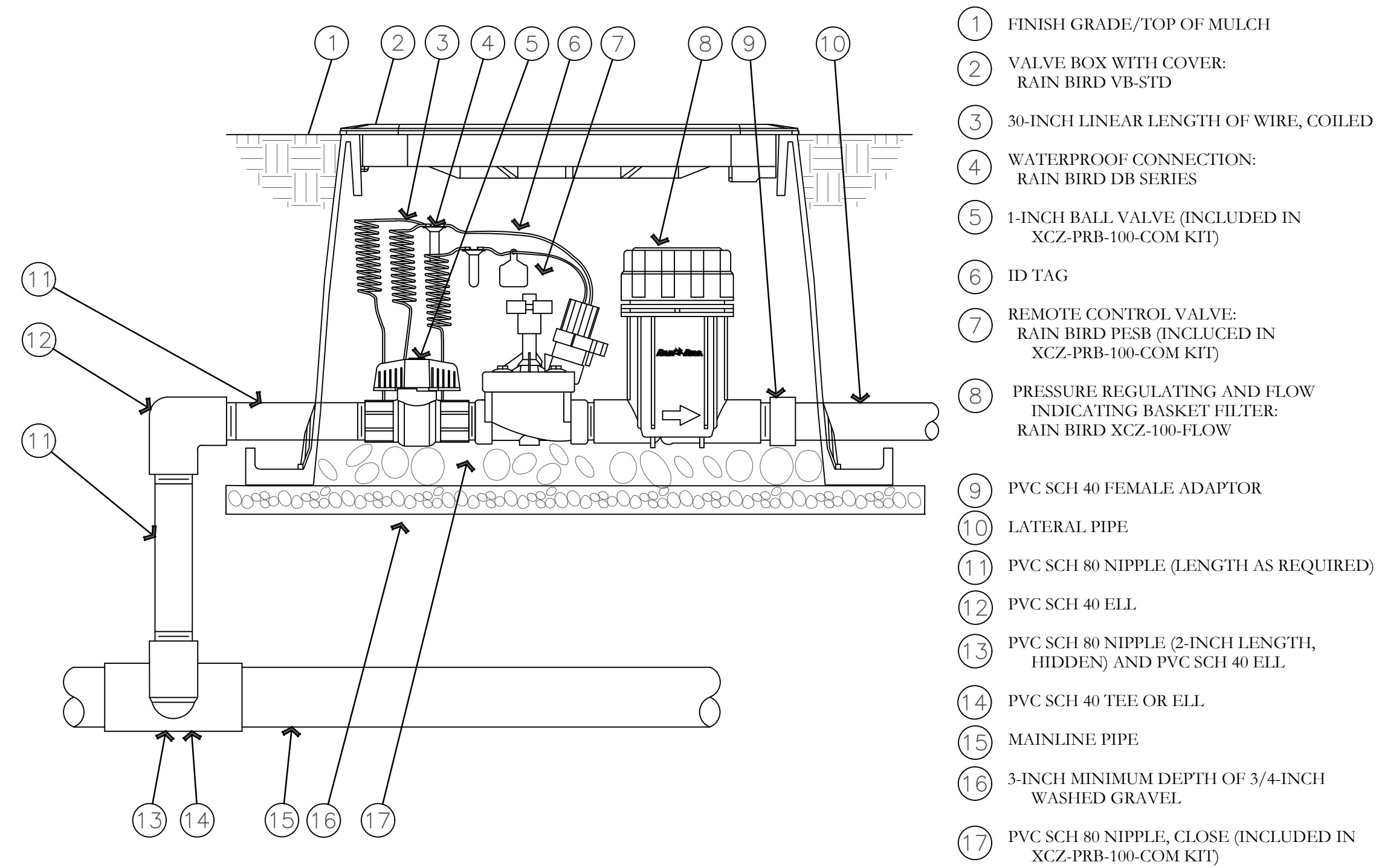
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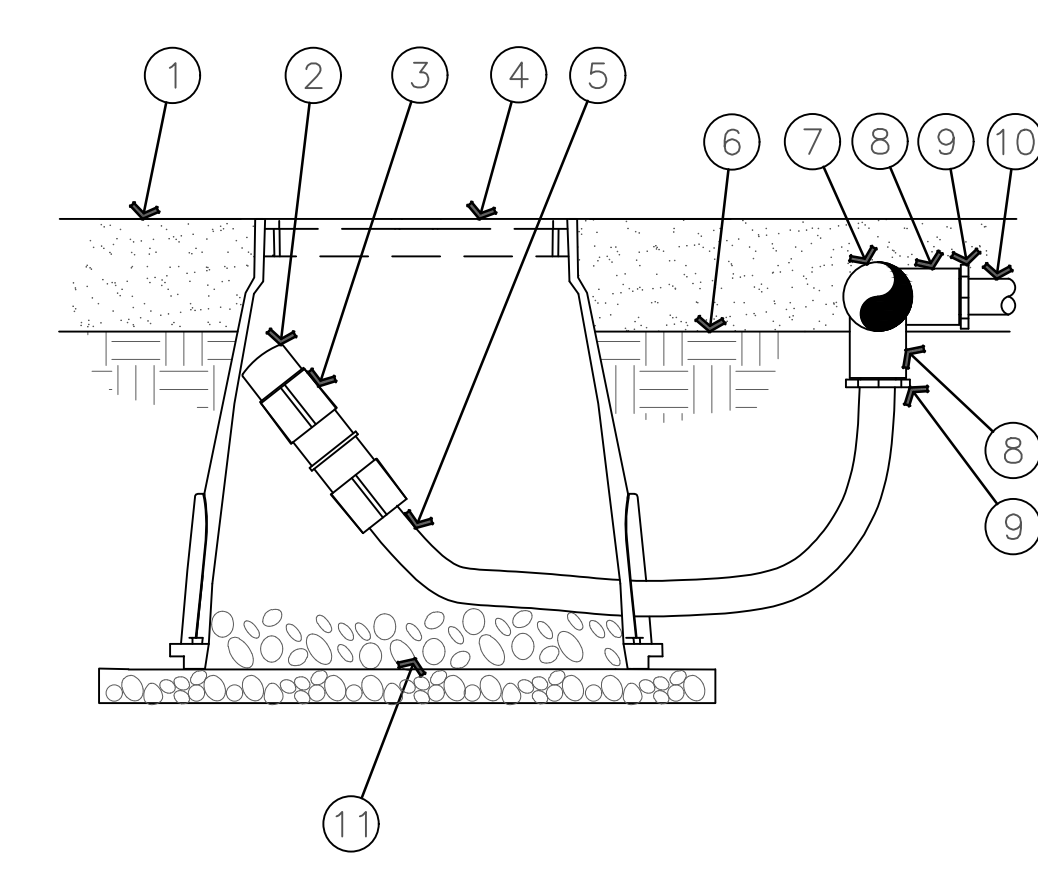
IRRIGATION DETAILS
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IR-502



- 1 FINISH GRADE/TOP OF MULCH
- 2 VALVE BOX WITH COVER: RAIN BIRD VB-STD
- 3 30-INCH LINEAR LENGTH OF WIRE, COILED
- 4 WATERPROOF CONNECTION: RAIN BIRD DB SERIES
- 5 1-INCH BALL VALVE (INCLUDED IN XCZ-PRB-100-COM KIT)
- 6 ID TAG
- 7 REMOTE CONTROL VALVE: RAIN BIRD PESB (INCLUDED IN XCZ-PRB-100-COM KIT)
- 8 PRESSURE REGULATING AND FLOW INDICATING BASKET FILTER: RAIN BIRD XCZ-100-FLOW
- 9 PVC SCH 40 FEMALE ADAPTOR
- 10 LATERAL PIPE
- 11 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- 12 PVC SCH 40 ELL
- 13 PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
- 14 PVC SCH 40 TEE OR ELL
- 15 MAINLINE PIPE
- 16 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
- 17 PVC SCH 80 NIPPLE, CLOSE (INCLUDED IN XCZ-PRB-100-COM KIT)

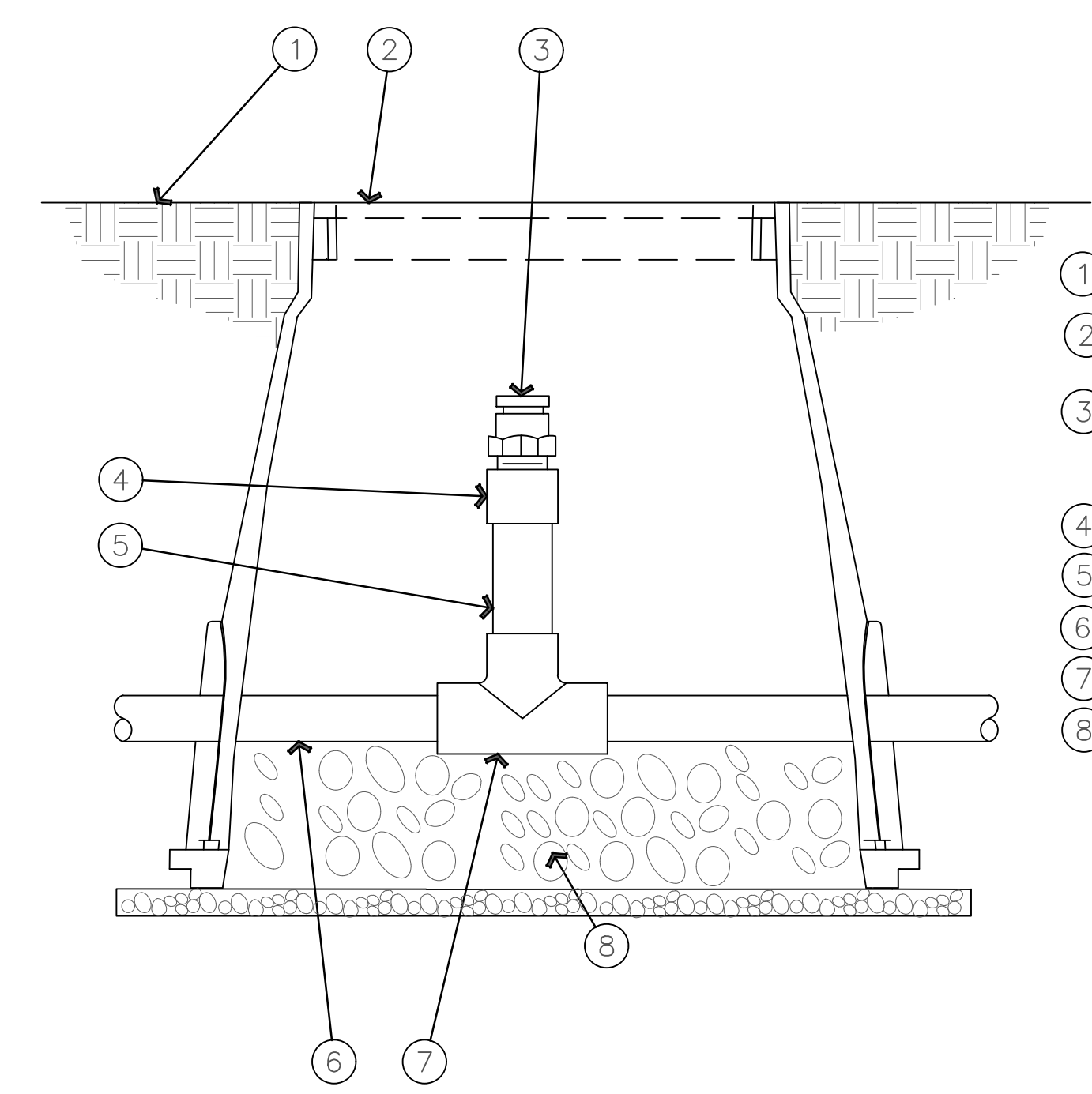
P DRIP CONTROL ZONE KIT DETAIL
NOT TO SCALE



- 1 MULCH
- 2 FLUSH CAP FOR EASY FIT COMPRESSION FITTINGS: POTABLE:RAIN BIRD MDCFCAP
- 3 EASY FIT COUPLING: RAIN BIRD MDCFCOUP
- 4 SUBTERRANEAN EMITTER BOX: RAIN BIRD SEB 7XB
- 5 1/2" POLYETHYLENE TUBING: RAIN BIRD XF-BLANK TUBING
- 6 FINISH GRADE
- 7 PVC EXHAUST HEADER
- 8 PVC SCH 40 TEE OR EL
- 9 BARB X MALE FITTING: RAIN BIRD XFF-MA FITTING (TYPICAL)
- 10 ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFCV DRIPLINE
- 11 3-INCH MINIMUM DEPTH OF 3/4" WASHED GRAVEL

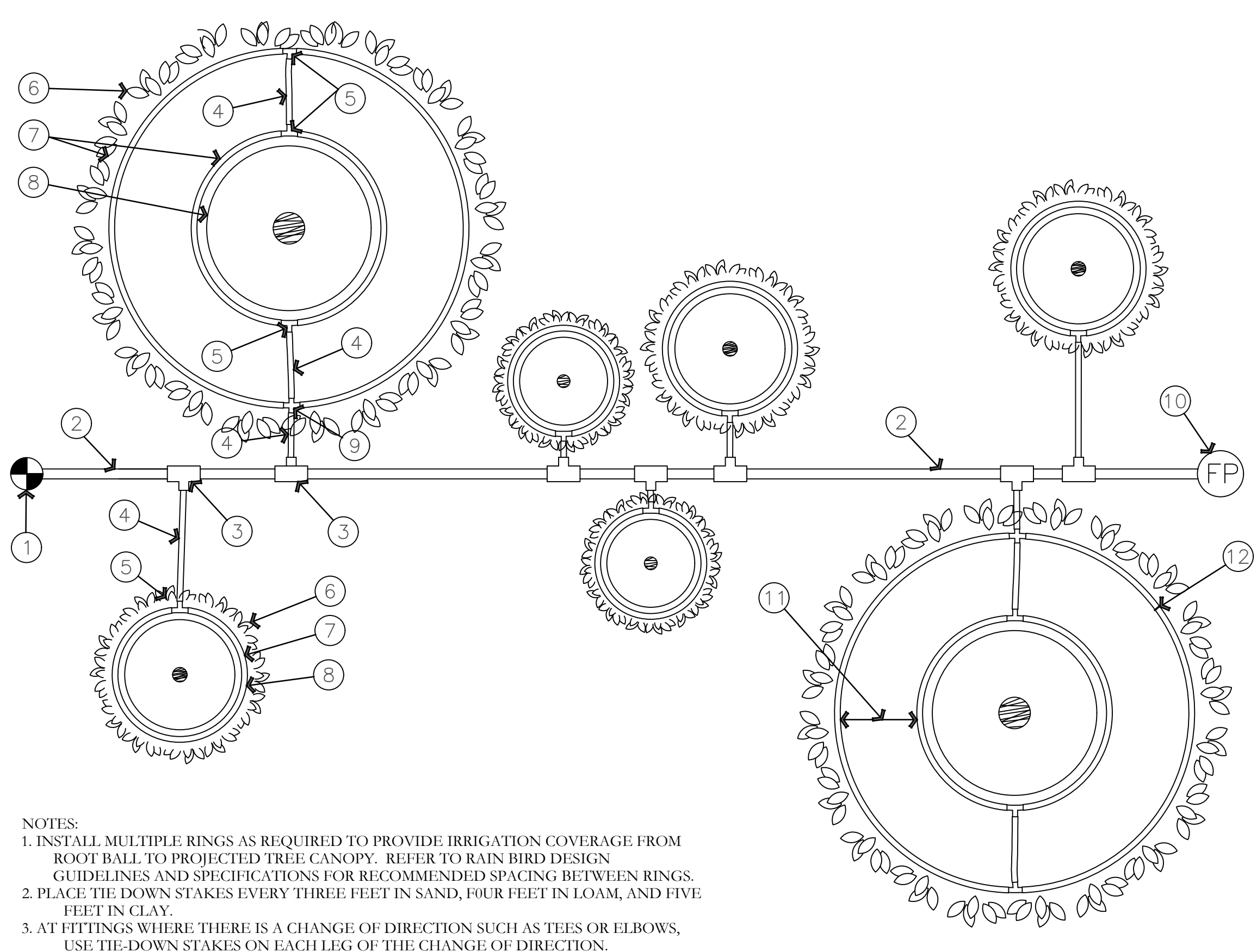
NOTE:
1. ALLOW A MINIMUM OF 6-INCHES OF DRIPLINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

Q ON-SURFACE DRIPLINE FLUSH POINT DETAIL
NOT TO SCALE



- 1 FINISH GRADE
- 2 SUBTERRANEAN EMITTER BOX: RAIN BIRD SEB 7XB
- 3 1/2" AIR RELIEF VALVE: RAIN BIRD ARV050 TO BE INSTALLED AT HIGH POINTS IN DRIP ZONE
- 4 PVC SCH 40 FEMALE ADAPTER
- 5 PVC SCH 80 RISER
- 6 PVC HEADER PIPE
- 7 PVC SCH 40 TEE
- 8 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL

R AIR RELIEF VALVE DETAIL
NOT TO SCALE



NOTES:
1. INSTALL MULTIPLE RINGS AS REQUIRED TO PROVIDE IRRIGATION COVERAGE FROM ROOT BALL TO PROJECTED TREE/SHRUB CANOPY. REFER TO RAIN BIRD DESIGN GUIDELINES AND SPECIFICATIONS FOR RECOMMENDED SPACING BETWEEN RINGS.
2. PLACE TIE-DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
3. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

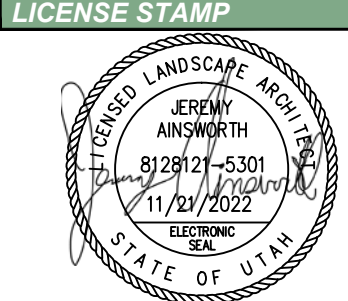
- 1 RAIN BIRD CONTROL ZONE KIT (SIZED TO ACCOMMODATE LATERAL FLOW DEMAND)
- 2 PVC DRIP LATERAL PIPE
- 3 PVC SCH 40 TEE OR EL (TYPICAL)
- 4 1/2" POLYETHYLENE TUBING: RAIN BIRD XF SERIES-S FOR COPPER SHEILD (TYPICAL)
- 5 BARB X BARB INSERT TEE: RAIN BIRD XFF-TEE (TYPICAL)
- 6 PROJECTED CANOPY LINE OF TREE OR SHRUB (TYPICAL)
- 7 ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFCV SERIES PLACE AS SHOWN (LENGTH AS REQUIRED, TYPICAL)
- 8 ROOT BALL (TYPICAL)
- 9 BARB X BARB INSERT CROSS: RAIN BIRD XFD-CROSS (TYPICAL)
- 10 DRIPLINE FLUSH POINT (SEE RAIN BIRD DETAIL: "XFCV DRIPLINE FLUSH POINT WITH BALL VALVE")
- 11 SPACING PER SPECIFICATION
- 12 TIE-DOWN STAKE: RAIN BIRD TDS-050 WITH BEND (QUANTITY AS REQUIRED, SEE NOTES 2-3 BELOW)

S ON-SURFACE DRIPLINE TREE/SHRUB DETAIL
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IRRIGATION DETAILS
PRELIMINARY PLANS NOT FOR CONSTRUCTION
IR-503

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