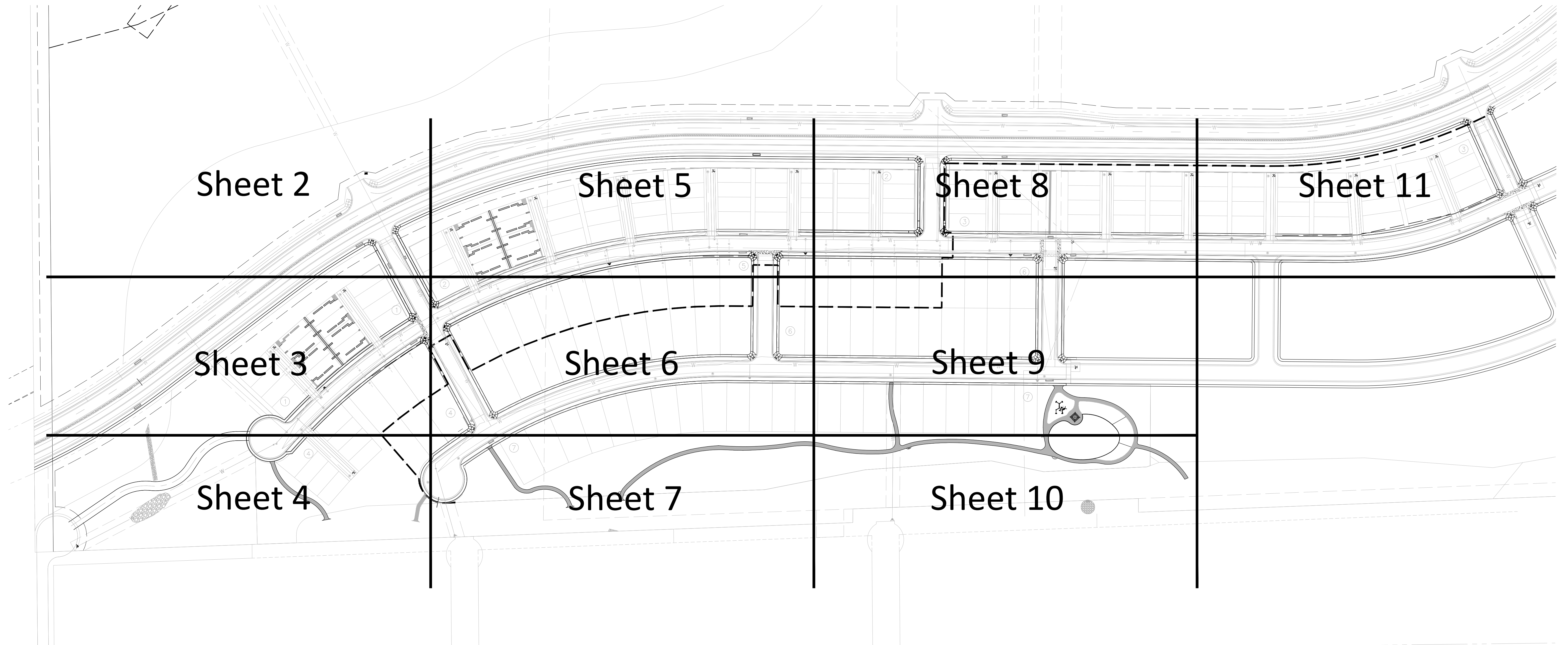


COMPARK VILLAGE SOUTH FILING NO. 2 & COMPARK VILLAGE SOUTH FILING NO. 2 - AMENDMENT NO. 1 FINAL IRRIGATION PLAN

A PARCEL OF LAND LOCATED IN THE SOUTH HALF OF SECTION 6, TOWNSHIP 6 SOUTH RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN,
TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO
PLANNING AREA 17 & 18
32.86 ACRES, 192 RESIDENTIAL UNITS, 20 TRACTS



COMPARK VILLAGE SOUTH FILING NO. 2 & COMPARK VILLAGE SOUTH FILING NO. 2 - AMENDMENT NO. 1 FINAL IRRIGATION PLAN - SECTIONS

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Town of Parker
Colorado

job no. 2015/20
date 07-05-2017
revisions

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Sheet 0 of 16

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- 0 OVERALL IRRIGATION AREA
- 1 IRRIGATION NOTES
- 1 IRRIGATION SCHEDULE
- 2 - 11 IRRIGATION PLANS
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- 16 IRRIGATION CHARTS



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IRRIGATION SCHEDULE				
SYMBOL	MANUFACTURER	MODEL NO.	DESCRIPTION	DETAIL NO.
	HUNTER / TORO	PRO5-06-CV-FRS30 WITH 0 PRECISION SERIES NOZZLE	POPUF SPRAY HEAD	6
	HUNTER / TORO	PRO5-06-CV-FRS30 WITH 0 PRECISION STRIP, CORNER NOZZLE	POPUF SPRAY HEAD	6
	HUNTER / TORO	PRO5-12-CV-FRS30 WITH 0 PRECISION SERIES NOZZLE	HI-POP SPRAY HEAD	8
	HUNTER / TORO	PRO5-12-CV-FRS30 WITH 0 PRECISION STRIP, CORNER NOZZLE	HI-POP SPRAY HEAD	8
	HUNTER	I-20-06-SS WITH # NOZZLE	GEAR DRIVEN ROTOR	7
	HUNTER	I-20-06-SS WITH MPR # NOZZLE	GEAR DRIVEN ROTOR	7
	HUNTER	I-20-06-SS WITH MPR # NOZZLE	GEAR DRIVEN ROTOR	7
	HUNTER	I-20-12 WITH # NOZZLE	HI-POP GEAR DRIVEN ROTOR	9
	HUNTER	I-20-12 WITH # NOZZLE	HI-POP GEAR DRIVEN ROTOR	9
	HUNTER	RZNS-10-25-CV WITH RZNS-SLEEVE	ROOT WATERING BUBBLER	18
	HUNTER-WEATHERMATIC	ICV IV SLDEC1 DECODER	ELECTRIC CONTROL VALVE	12 & 21
	RAIN BIRD	44-LRC	QUICK COUPLING VALVE	4
	WEATHERMATIC	SL9600TW IV SLPED-ENC-SS-4800	ELECTRIC CONTROLLER	13
	WEATHERMATIC	SL4800 IV SLPED-ENC-SS-4800	ELECTRIC CONTROLLER	13
	WEATHERMATIC	SLN5 (WIRELESS)	WEATHER STATION	14
	FEBCO	825YA WITH WATTS 223-HP PRV	RP BACKFLOW PREVENTER	10
	GUARDSHACK	65-1	BACKFLOW PREVENTER ENCLOSURE	11
	MATCO	201X	MANUAL DRAIN VALVE	3
		LINE SIZE - 2 1/2" AND SMALLER	GATE VALVE	5
	HUNTER-WEATHERMATIC	IBV IV SLDEC1 DECODER	MASTER CONTROL VALVE	16, 26
	WEATHERMATIC	SLFS1-T15 (1 1/2")	FLOW SENSOR (POC #2)	15
	WEATHERMATIC	SLNIRE	2 - WIRE CABLE	12, 13, 18, 21
	WEATHERMATIC	SLGDT	LIGHTNING ARRESTOR	22
		CLASS 200 BE - 2 1/2" & SMALLER	FVC MAINLINE	2
		CLASS 200 BE	FVC LATERAL	2
		CLASS 160	FVC SLEEVING	1
	TORO OR EQUAL	BLUE STRIPE	POLY DRIP TUBING - 3/4" MIN. WIDTH	20
	RAIN BIRD	XCZF-100-PRF	DRIP VALVE ASSEMBLY	18, 26
			DRIP LINE BLOW-OUT STUB	19
	RAIN BIRD	XERI-BUG	DRIP EMITTERS	20
			WATER METER	BY OTHERS
CONTROLLER & STATION NO. CONTROL VALVE SIZE				

IRRIGATION CONSTRUCTION NOTES

- DRAWINGS AND BASE INFORMATION - ALL BASE AND PLANTING INFORMATION HAVE BEEN PROVIDED BY PLANWEST. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY HYDROSYSTEMS*KDI OF ANY DISCREPANCIES BETWEEN THE UTILITY OR PLANTING PLANS AND THE IRRIGATION PLAN. IF CONTRACTOR FAILS TO NOTIFY HYDROSYSTEMS*KDI AND MAKES CHANGES TO THE IRRIGATION SYSTEM DESIGN, HE ASSUMES ALL COSTS AND LIABILITIES ASSOCIATED WITH THOSE FIELD CHANGES. REFER TO SPECIFICATIONS FOR ADDITIONAL PROJECT REQUIREMENTS.
- SYSTEM PRESSURE - HYDROSYSTEMS*KDI HAS CONTACTED THE LOCAL WATER DISTRICT THAT SERVES THIS SITE AND THEY HAVE BEEN TOLD THAT THE STATIC WATER PRESSURE IN THIS AREA SHOULD BE 103 PSI. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY PRESSURE PRIOR TO COMMENCING ANY CONSTRUCTION AND NOTIFY HYDROSYSTEMS*KDI OF ANY VARIANCE FROM THE STATED PRESSURE IMMEDIATELY. WRITTEN DOCUMENTATION OF PRESSURE TEST AND RESULTS SHALL BE PROVIDED TO HYDROSYSTEMS*KDI AT CONSTRUCTION ONSET. IF CONTRACTOR FAILS TO FIELD VERIFY PRESSURE AND/OR NOTIFY HYDROSYSTEMS*KDI OR ANY VARIATIONS FROM THIS PRESSURE, THEN HE ASSUMES ALL CONSTRUCTION AND ENGINEERING COSTS ASSOCIATED WITH SYSTEM MODIFICATIONS REQUIRED TO ACCOMMODATE ACTUAL SITE PRESSURE. THIS SYSTEM HAS BEEN DESIGNED FOR A REQUIRED STATIC PRESSURE OF 100 PSI AT POC #1 AND 93 PSI AT POC #2 AND MINIMUM.
- NON-POTABLE WATER SOURCE - THIS SITE HAS BEEN DESIGNED TO BE IRRIGATED WITH NON-POTABLE WATER. ALL CAPS ON HEADS, VALVE HANDLES, VALVE BOX LIDS SHALL BE CONSTRUCTED OF PURPLE MATERIALS AND LABELED TO INDICATE NON-POTABLE WATER SUPPLY. ALL MAINLINE AND LATERAL PIPING SHALL BE PURPLE. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING SIGNS NOTIFYING THE PUBLIC OF THE USE OF NON-POTABLE WATER ON THIS SITE. SEE STATE REGULATIONS FOR CONTENT AND SIZE OF NOTIFICATION SIGNS. INSTALLATION CREWS ARE TO BE INFORMED OF THE USE OF NON-POTABLE WATER.
- IRRIGATION SYSTEM OPERATION INTENT - THIS IRRIGATION SYSTEM HAS BEEN DESIGNED TO IRRIGATE THE ESTABLISHED LANDSCAPE WITHIN A 6 NIGHT PER WEEK, 6 HOUR PER NIGHT WATERING WINDOW. ESTABLISHMENT WATERING WILL REQUIRE UP TO TWICE AS MUCH IRRIGATION FOR A FOUR TO SIX WEEK PERIOD. THE DESIGN IS BASED ON THE FOLLOWING PROJECTED WEEKLY APPLICATION RATES AFTER ESTABLISHMENT. THESE FIGURES ARE BASED ON A 30-YEAR AVERAGE WEATHER DATA AND WILL NEED TO BE ADJUSTED DUE TO SEASONAL CHANGES AND WEATHER CONDITIONS ABOVE AND BELOW THE AVERAGE VALUES UTILIZED.

BLUEGRASS TURF	1.80" PER WEEK PEAK SEASON
ORNAMENTAL PLANTINGS	0.89" PER WEEK PEAK SEASON
NATIVE SEED MIXES	0.68" PER WEEK PEAK SEASON (TWO SEASONS)

 NOTE: IT IS THE INTENT OF THIS DESIGN THAT NATIVE AREAS WOULD ONLY BE IRRIGATED FOR ESTABLISHMENT. SYSTEM WILL REMAIN FOR USE DURING YEARS WITH LESS THAN NORMAL RAINFALL.
- EQUIPMENT INSTALLATION - IT IS THE INTENT OF THIS DESIGN THAT ALL IRRIGATION EQUIPMENT BE INSTALLED WITHIN PROPERTY LIMITS AND WITHIN LANDSCAPED AREAS. ANY EQUIPMENT OTHER THAN VALVE BOXES OR SLEEVING THAT CONTAINS PIPE OR WIRES SHOWN OUTSIDE OF THESE LIMITS IS SHOWN IN THAT LOCATION FOR GRAPHICAL CLARITY ONLY. ALL VALVE BOXES SHALL BE INSTALLED A MINIMUM OF 2'-0" FROM EDGE OF ANY PAVED SURFACES UNLESS SPECIFICALLY INDICATED ON PLANS. BOXES INSTALLED IN OPEN TURF AREAS SHALL BE KEPT TO EDGES AND STAKED FOR REVIEW IF ALONG HIGH TRAFFIC AREAS. ALL VALVE BOXES SHALL BE PLACED A MINIMUM OF 3'-0" FROM THE CENTERLINE OF ANY DRAINAGE SWALE. ALL VALVE BOXES WITHIN PAVEMENT SHALL BE TIER 15 RATED. BOXES FOR HEAVY DUTY NON-DELIBERATE TRAFFIC, BOX LID COLOR SHALL MATCH ADJACENT MATERIALS, I.E. GREEN IN TURF, TAN IN WOOD MULCH, GRAY IN STONE MULCH, PURPLE FOR RECLAIMED WATER SYSTEMS (IF REQUIRED). REFER TO LANDSCAPE PLANS FOR MATERIAL COLORS AND TYPES. ALL BOXES SHALL BE INSTALLED TO BE FLUSH WITH GRADE AND IN AN ORDERLY MANNER.
- MANUAL DRAIN VALVES - CONTRACTOR TO INSTALL ONE MANUAL DRAIN VALVE ON PRESSURE SUPPLY LINE DIRECTLY DOWNSTREAM OF BACKFLOW PREVENTER AND AT ALL LOW POINTS AND DEAD ENDS OF PRESSURE SUPPLY PIPING TO INSURE COMPLETE DRAINAGE OF SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THESE LOCATIONS IN-FIELD AND INSTALLATION LOCATIONS SHALL BE NOTED ON AS-BUILTS.
- POP-UP SPRAY NOZZLES - CONTRACTOR TO INSTALL PLASTIC NOZZLES ON ALL POP-UP SPRAY HEADS. INSTALL 15 SERIES NOZZLES ON ALL HEADS SPACED AT 12' TO 14'. INSTALL 12 SERIES NOZZLES ON ALL HEADS SPACED 10' TO 11'. INSTALL 10 SERIES NOZZLES ON ALL HEADS SPACED AT 8' TO 9'. INSTALL 8 SERIES NOZZLES ON ALL HEADS SPACED AT 6' TO 7'. INSTALL SIDE STRIP NOZZLES ON ALL HEADS WITH AN "S" DESIGNATION AND RIGHT AND LEFT CORNER STRIP NOZZLES ON ALL HEADS WITH AN "L" OR "R" DESIGNATION. VARIABLE ARC NOZZLES SHOULD BE UTILIZED ADJACENT TO CURVILINEAR SHRUB BEDS OR FOR ANY ANGLES THAT ARE NOT A STANDARD NOZZLE ANGLE. WHERE INDICATED, INSTALL LOW FLOW SQ SERIES SQUARE NOZZLES AT SPACING SHOWN. HIGH EFFICIENCY PRECISION 0 NOZZLES HAVE BEEN SELECTED FOR THEIR DISTRIBUTION UNIFORMITY AND FLOW CHARACTERISTICS. NO SUBSTITUTION WILL BE ALLOWED.
- DRIP IRRIGATION - REFER TO IRRIGATION DETAIL SHEET FOR DRIP EMITTER QUANTITIES AND PLACEMENT.
- UNLABELED PIPING - ALL UNLABELED LATERAL PIPING SHALL BE 1" MINIMUM UNLESS OTHERWISE NOTED.
- SLEEVING - ALL SLEEVING UNDER PAVED SURFACES SHOWN ON PLANS IS BY CONTRACTOR UNLESS OTHERWISE NOTED. SLEEVING SHALL BE INSTALLED IN THE SIZES AND QUANTITIES SHOWN ON PLANS OR BASED ON THE SCHEDULE BELOW. WHERE SLEEVES ARE SHOWN, BUT NOT LABELED, FOLLOW THE SCHEDULE BELOW. ALL MAINLINE, CONTROL WIRES AND DRIP LINES UNDER PAVED SURFACES ARE TO BE INSTALLED IN SLEEVING. ALL MAINLINE SLEEVE LOCATIONS TO INCLUDE A SEPARATE WIRE SLEEVE.

SLEEVED PIPE SIZE/WIRE QUANTITY	REQUIRED SLEEVE SIZE & QUANTITY
3/4" - 1 1/2" PIPING	2" FVC (1)
1 1/2" - 2" PIPING	4" FVC (1)
2 1/2" - 3" PIPING	6" FVC (1)
1-25 CONTROL WIRES	2" FVC (1)
COMMUNICATION CABLE	2" FVC (1)
- SPARE CONTROL WIRES - CONTRACTOR SHALL EXTEND THREE SPARE WIRES (ONE COMMON AND 2 CONTROL WIRES) FROM EACH CONTROLLER TO THE END OF THE MAINLINE SERVING THAT CONTROLLER OR AS SHOWN ON THE PLANS. INSTALL SPARE WIRES IN 10" ROUND VALVE BOX WITH QUICK COUPLING VALVE. REFER TO SPECIFICATIONS FOR WIRE COLOR. SEE IRRIGATION SCHEDULE FOR ADDITIONAL INFORMATION.
- ADJUSTMENT - CONTRACTOR SHALL FINE TUNE/ADJUST THE IRRIGATION SYSTEM TO REDUCE/AVOID OVERSPRAY ONTO HARD SURFACES BY ADJUSTING NOZZLE DIRECTION AND NOZZLE RADIUS.
- PLANS AND SPECIFICATIONS - CONTRACTOR RESPONSIBLE TO ENSURE WORK CONFORMS TO PLANS AND SPECIFICATIONS. AT ONSET OF CONSTRUCTION, VERIFY PLANS ARE CURRENT. WHERE REQUIRED BY CITY, CONTRACTOR SHALL CONSTRUCT ONLY OFF CITY STAMPED PLANS. REVISIONS TO CITY STAMPED PLANS SHALL CONFORM TO CITY FIELD CHANGE PROCEDURES AND DOCUMENTATION.
- EXISTING IRRIGATION DAMAGE - CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING IRRIGATION SYSTEMS DAMAGED DURING NEW INSTALLATION. REPAIR OR REPLACEMENT SHALL BE DETERMINED BY OWNER OR OWNER'S REPRESENTATIVE AND PAID FOR BY THE LANDSCAPE CONTRACTOR.
- EXISTING IRRIGATION COORDINATION - EXISTING IRRIGATION SYSTEM SHALL NOT BE TURNED OFF FOR MORE THAN 24 HOURS MAXIMUM. CONTRACTOR SHALL COORDINATE TURN OFF OF SYSTEM WITH OWNER OR MAINTENANCE STAFF 72 HOURS PRIOR TO ANY NEW CONSTRUCTION.
- SIMULTANEOUS ZONE OPERATION - THIS IRRIGATION SYSTEM HAS BEEN DESIGNED TO OPERATE MULTIPLE ZONES SIMULTANEOUSLY BASED ON INDIVIDUAL ZONE FLOW. THE DESIGN IS INTENDED TO OPERATE MULTIPLE VALVES, UP TO THE MAXIMUM FLOW IN THE POINT OF CONNECTION NOTE. REFER TO CONTROLLER SPECIFICATION FOR MAXIMUM SIMULTANEOUS VALVE COUNT.

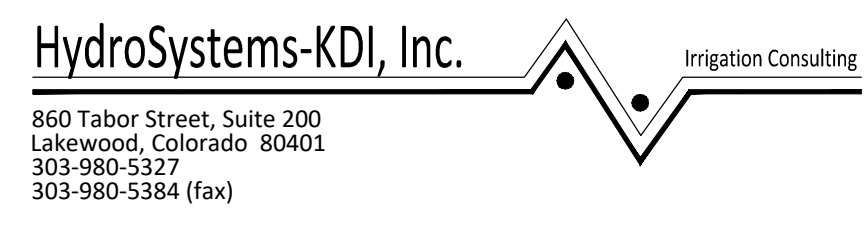
2-WIRE CONSTRUCTION NOTES

- 2-WIRE SYSTEM NOTES - CONTRACTOR SHALL INSTALL ALL TWO-WIRE COMPONENTS PER MANUFACTURER'S RECOMMENDATIONS AND STANDARDS.
 - CONTRACTOR SHALL USE ONLY MANUFACTURED 2-WIRE DECODER CABLE (SEE SCHEDULE FOR SPECIFIC 2-WIRE CABLE).
 - USE DIFFERENT COLOR 2-WIRE DECODER CABLE FOR EACH CONTROLLER (BLUE FOR A AND BLACK FOR B).
 - ONLY USE SINGLE STATION DECODERS (SEE SCHEDULE FOR SPECIFIC MODEL).
 - ONLY USE SENSOR DECODER FOR FLOW SENSOR (SEE SCHEDULE FOR SPECIFIC MODEL) IF INDICATED ON PLANS.
 - LOOP 5' OF 2-WIRE DECODER CABLE INTO ALL VALVE BOXES (WITH DECODERS AND SPLICES) FOR MAINTENANCE.
 - USE ONLY 3M DBR-6 WATERPROOF CONNECTORS ON ALL WIRE SPLICES AND ALL WIRE SPLICES ARE TO BE MADE WITHIN A VALVE BOX WITH CONTROL VALVES OR A SEPARATE 10" ROUND VALVE BOX FOR WIRE SPLICES.
 - INSTALL SURGE PROTECTOR RODS OR PLATES 8 LF. FROM VALVES, DECODERS, AND COMMUNICATION WIRE.
 - GROUND ALL DECODERS AND DECODER WIRE A MINIMUM OF EVERY WEATHERMATIC-500' OF WIRE AND AT ALL ENDS OF 2-WIRE DECODER CABLE RUN, LOOP EXTRA 5' OF 2-WIRE DECODER CABLE INTO A VALVE BOX AT PHASING LINES FOR FUTURE CONNECTION (IF INDICATED ON PLANS).

POINTS OF CONNECTION EQUIPMENT SIZING	
TAP SIZE	1 1/2"
SERVICE LINE FROM CITY MAIN TO 5' DOWNSTREAM METER	1 1/2"
METER	1 1/2"
SERVICE LINE TO BACKFLOW PREVENTER	1 1/2"
STOP & WASTE VALVE	1 1/2"
BACKFLOW PREVENTER	1 1/2"
PRV (IF APPLICABLE)	1 1/2"
FLOW SENSOR	1 1/2"
MASTER VALVE	1 1/2"
GATE VALVE	1 1/2"

POINTS OF CONNECTION & CONTROLLER DATA						
TAP NO.	TAP SIZE (INCH)	ASSOCIATED CONTROLLER	CONTROLLER STATION COUNT	PEAK FLOW REQUIREMENT (GPM)	REQUIRED STATIC PRESSURE (PSI)	PRESSURE REDUCING VALVE SETTING (PSI)
1	1.5"	A	48	40	103	90
2	1.5"	B	48	40	101	94

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COMPARK VILLAGE SOUTH FILING NO. 2 & COMPARK VILLAGE SOUTH FILING NO. 2 - AMENDMENT NO. 1 FINAL IRRIGATION PLAN - SECTIONS

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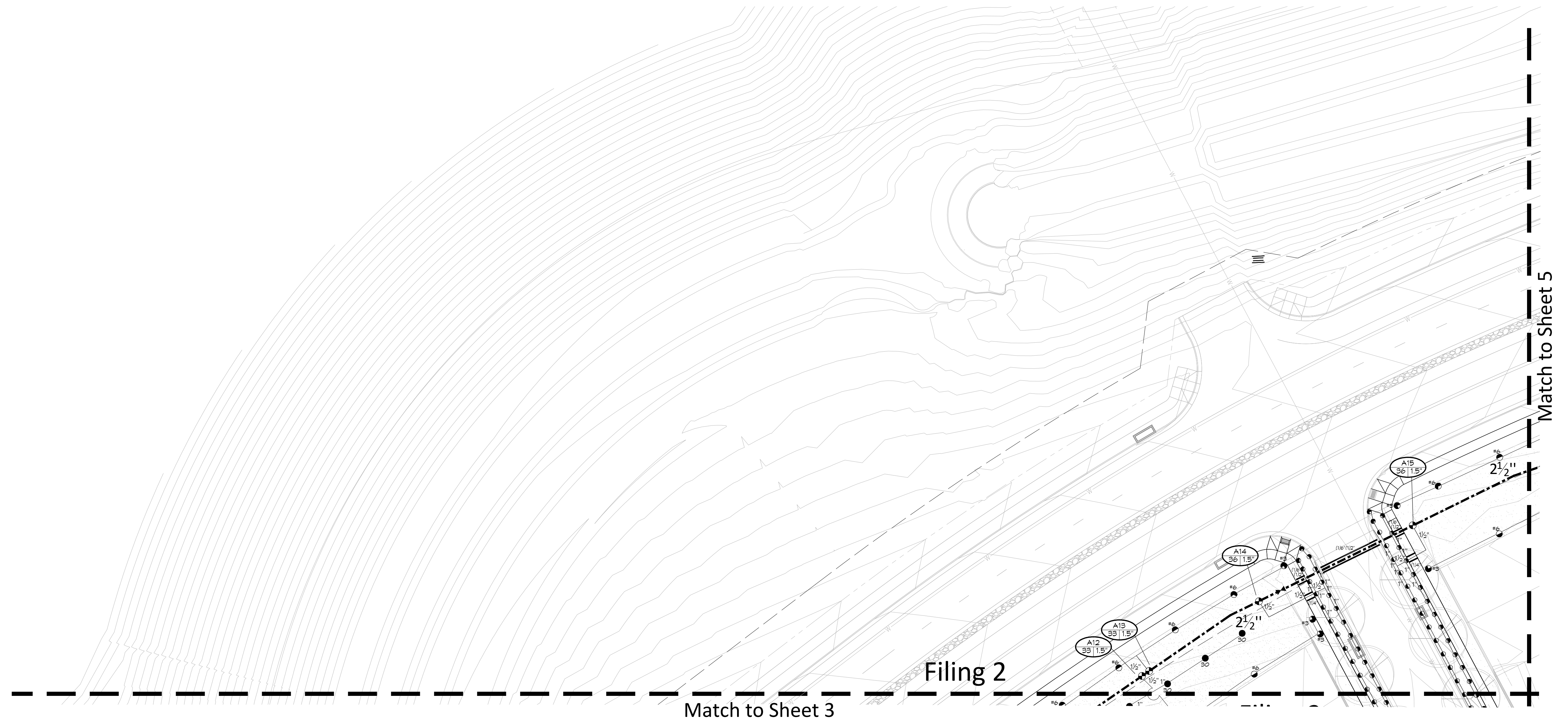


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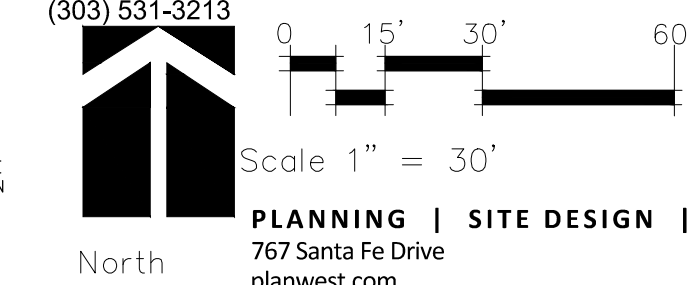
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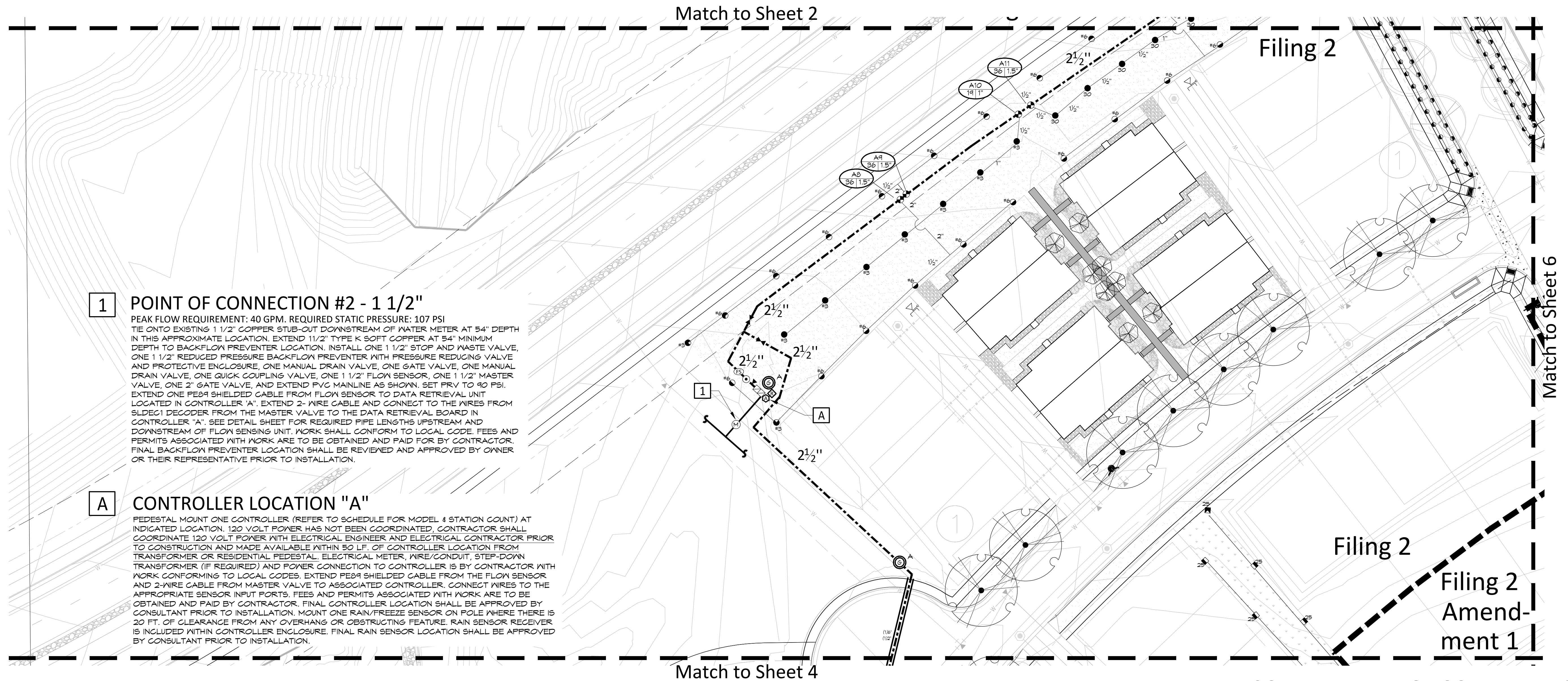


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1 POINT OF CONNECTION #2 - 1 1/2"
PEAK FLOW REQUIREMENT: 40 GPM. REQUIRED STATIC PRESSURE: 107 PSI
TIE ONTO EXISTING 1 1/2" COPPER STUB-OUT DOWNSTREAM OF WATER METER AT 54" DEPTH
IN THIS APPROXIMATE LOCATION. EXTEND 1 1/2" TYPE K SOFT COPPER AT 54" MINIMUM
DEPTH TO BACKFLOW PREVENTER LOCATION. INSTALL ONE 1 1/2" STOP AND WASTE VALVE,
ONE 1 1/2" REDUCED PRESSURE BACKFLOW PREVENTER WITH PRESSURE REDUCING VALVE
AND PROTECTIVE ENCLOSURE, ONE MANUAL DRAIN VALVE, ONE GATE VALVE, ONE MANUAL
DRAIN VALVE, ONE QUICK COUPLING VALVE, ONE 1 1/2" FLOW SENSOR, ONE 1 1/2" MASTER
VALVE, ONE 2" GATE VALVE, AND EXTEND PVC MAINLINE AS SHOWN. SET PRV TO 90 PSI.
EXTEND ONE PE89 SHIELDED CABLE FROM FLOW SENSOR TO DATA RETRIEVAL UNIT
LOCATED IN CONTROLLER "A". EXTEND 2-WIRE CABLE AND CONNECT TO THE WIRES FROM
SLD501 DECODER FROM THE MASTER VALVE TO THE DATA RETRIEVAL BOARD IN
CONTROLLER "A". SEE DETAIL SHEET FOR REQUIRED PIPE LENGTHS UPSTREAM AND
DOWNSTREAM OF FLOW SENSING UNIT. WORK SHALL CONFORM TO LOCAL CODE, FEES AND
PERMITS ASSOCIATED WITH WORK ARE TO BE OBTAINED AND PAID FOR BY CONTRACTOR.
FINAL BACKFLOW PREVENTER LOCATION SHALL BE REVIEWED AND APPROVED BY OWNER
OR THEIR REPRESENTATIVE PRIOR TO INSTALLATION.

A CONTROLLER LOCATION "A"
PEDESTAL MOUNT ONE CONTROLLER (REFER TO SCHEDULE FOR MODEL & STATION COUNT) AT
INDICATED LOCATION. 120 VOLT POWER HAS NOT BEEN COORDINATED. CONTRACTOR SHALL
COORDINATE 120 VOLT POWER WITH ELECTRICAL ENGINEER AND ELECTRICAL CONTRACTOR PRIOR
TO CONSTRUCTION AND MADE AVAILABLE WITHIN 50 LF. OF CONTROLLER LOCATION FROM
TRANSFORMER OR RESIDENTIAL PEDESTAL. ELECTRICAL METER, WIRE/CONDUIT, STEP-DOWN
TRANSFORMER (IF REQUIRED) AND POWER CONNECTION TO CONTROLLER IS BY CONTRACTOR WITH
WORK CONFORMING TO LOCAL CODES. EXTEND PE89 SHIELDED CABLE FROM THE FLOW SENSOR
AND 2-WIRE CABLE FROM MASTER VALVE TO ASSOCIATED CONTROLLER. CONNECT WIRES TO THE
APPROPRIATE SENSOR INPUT PORTS. FEES AND PERMITS ASSOCIATED WITH WORK ARE TO BE
OBTAINED AND PAID BY CONTRACTOR. FINAL CONTROLLER LOCATION SHALL BE APPROVED BY
CONSULTANT PRIOR TO INSTALLATION. MOUNT ONE RAIN/FREEZE SENSOR ON POLE WHERE THERE IS
20 FT. OF CLEARANCE FROM ANY OVERHANG OR OBSTRUCTING FEATURE. RAIN SENSOR RECEIVER
IS INCLUDED WITHIN CONTROLLER ENCLOSURE. FINAL RAIN SENSOR LOCATION SHALL BE APPROVED
BY CONSULTANT PRIOR TO INSTALLATION.

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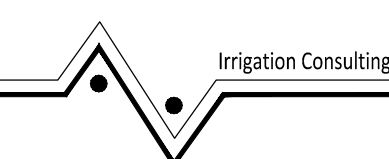
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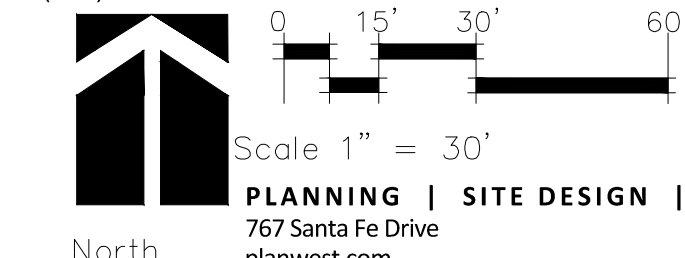
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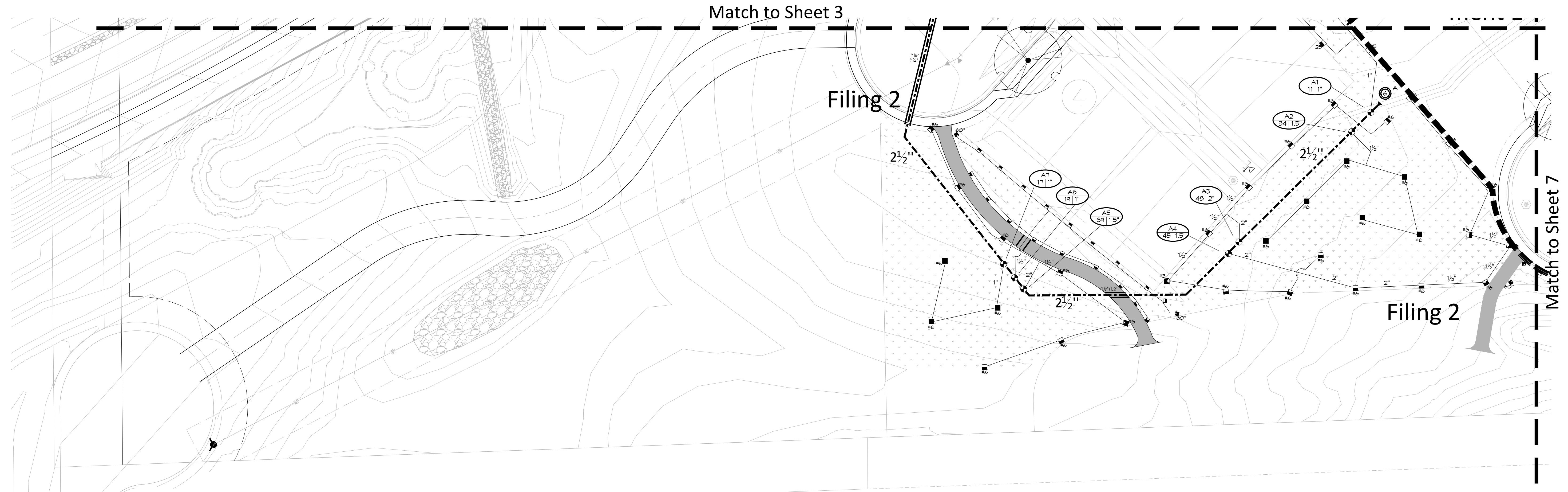
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Centennial 80112
(303) 531-3213



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COMPARK VILLAGE SOUTH FILING NO. 2 & COMPARK VILLAGE SOUTH FILING NO. 2 - AMENDMENT NO. 1 FINAL IRRIGATION PLAN

A PARCEL OF LAND LOCATED IN THE SOUTH HALF OF SECTION 6, TOWNSHIP 6 SOUTH RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN,
TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO
PLANNING AREA 17 & 18
32.86 ACRES, 192 RESIDENTIAL UNITS, 20 TRACTS



REFER TO SHEET

0	OVERALL IRRIGATION AREA
1	IRRIGATION NOTES
1	IRRIGATION SCHEDULE
2 - 11	IRRIGATION PLANS
12- 15	IRRIGATION DETAILS
16	IRRIGATION CHARTS



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303-980-5327
303-980-5384 (fax)

**COMPARK VILLAGE SOUTH FILING NO. 2
& COMPARK VILLAGE SOUTH FILING
NO. 2 - AMENDMENT NO. 1
FINAL IRRIGATION PLAN - SECTIONS**

OWNER 470 Compark, LLC 290 Fillmore St., Suite 2 Denver, CO 80206	LANDSCAPE ARCHITECT Plan West, Inc. 767 Santa Fe Drive Denver, CO 80204 (303) 741-1411	Town of Parker Colorado job no. 2015/20 date 07-05-2017 revisions
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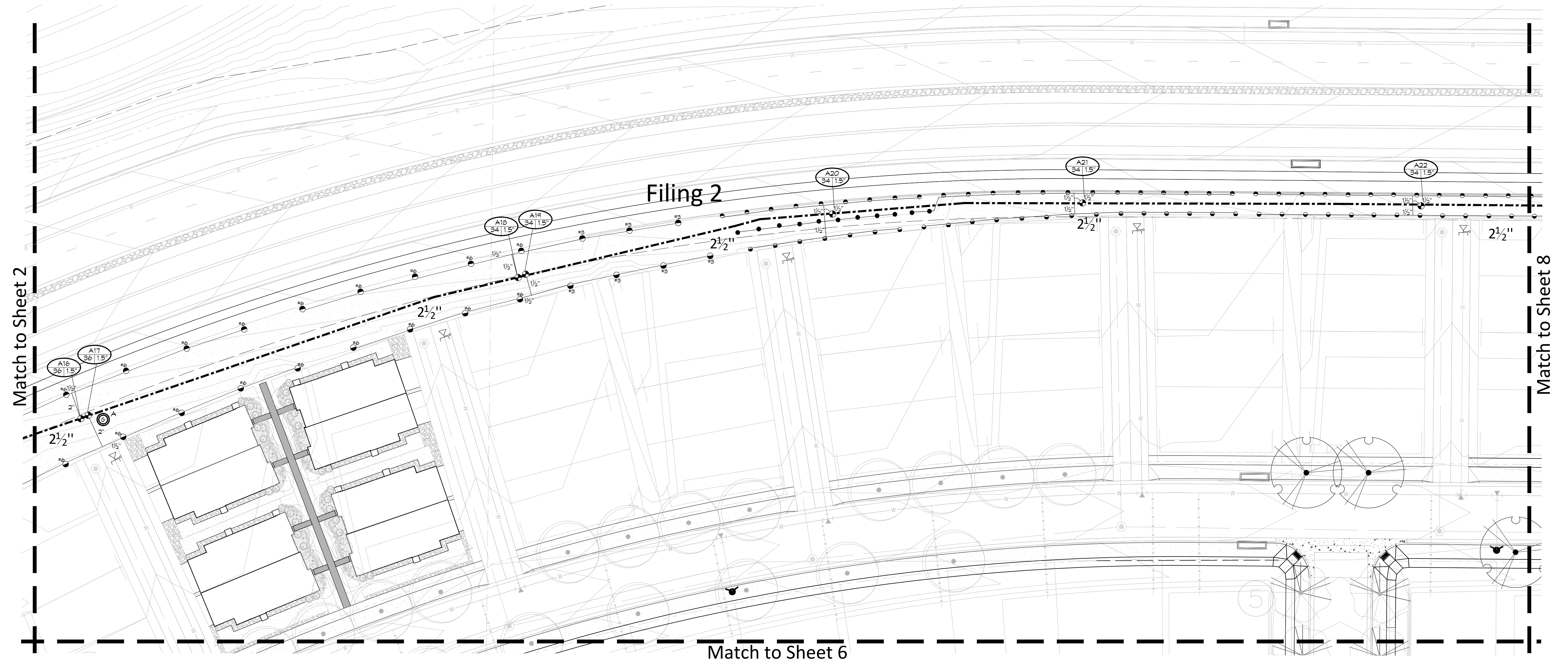
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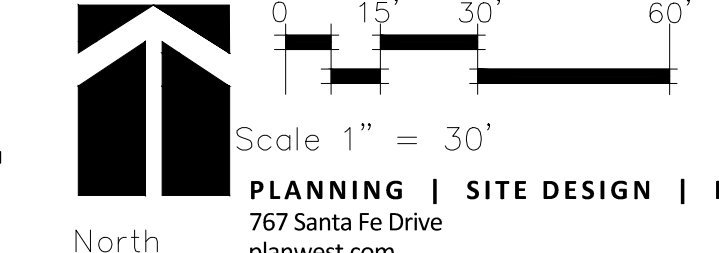
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290 Fillmore St., Suite 2
Denver, CO 80206

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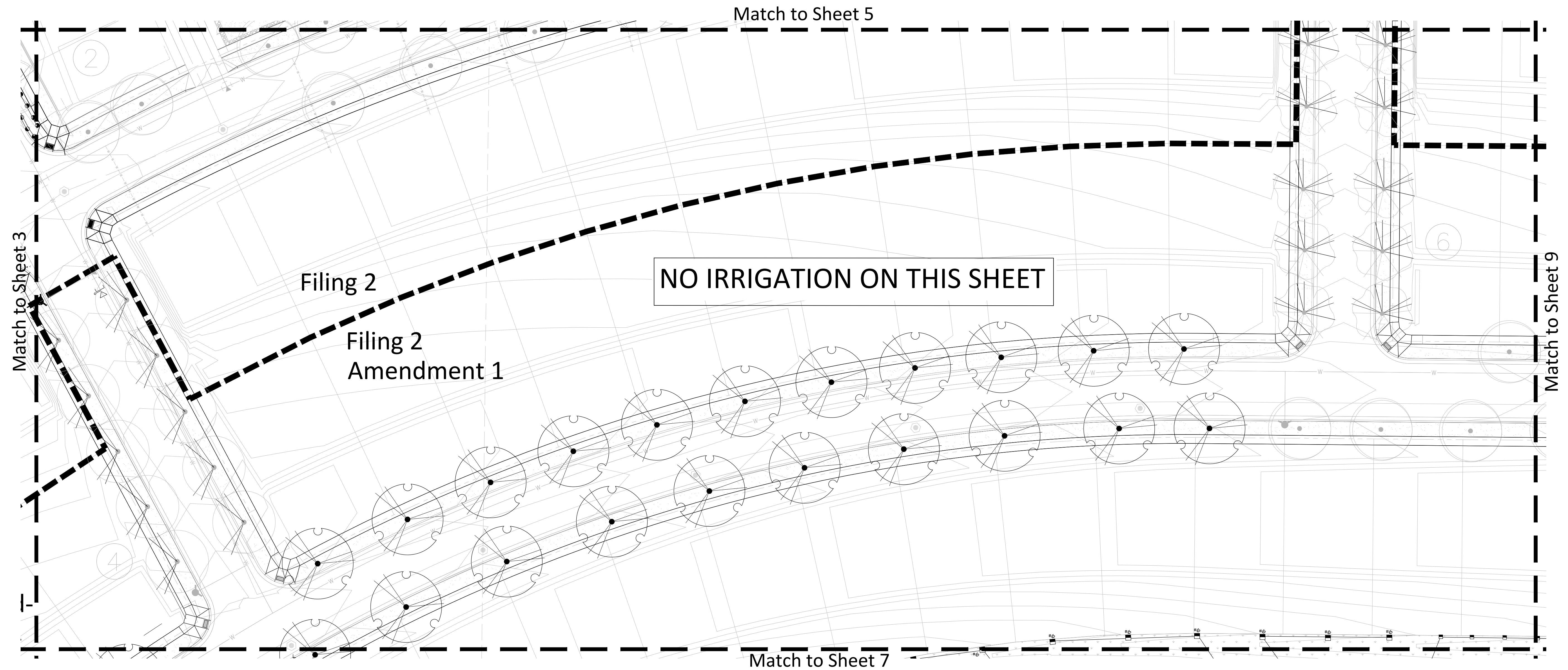
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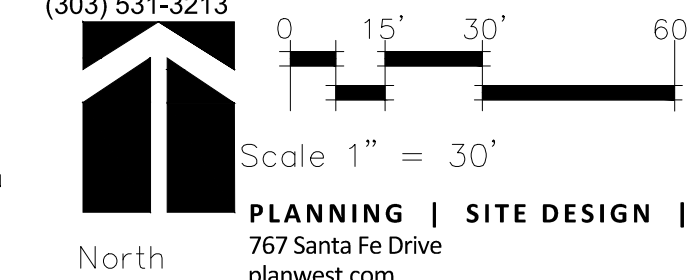
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Sheet 6 of 16

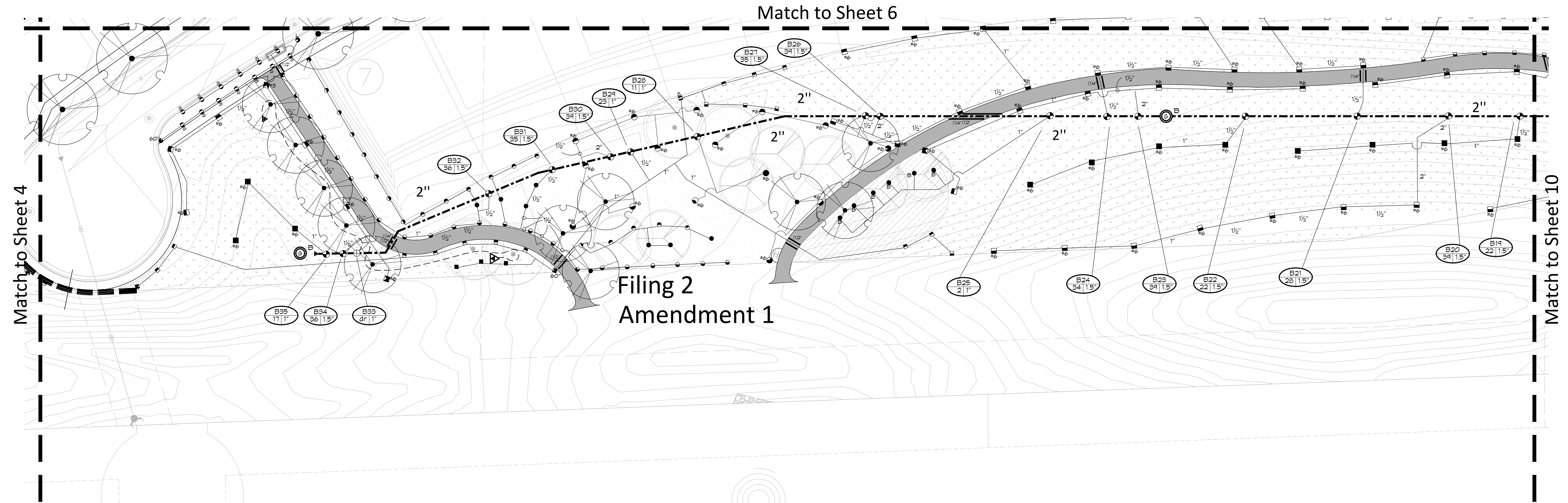


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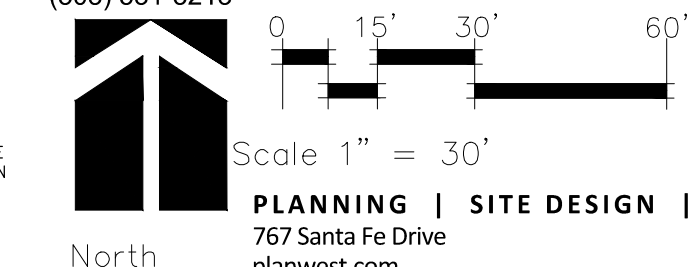
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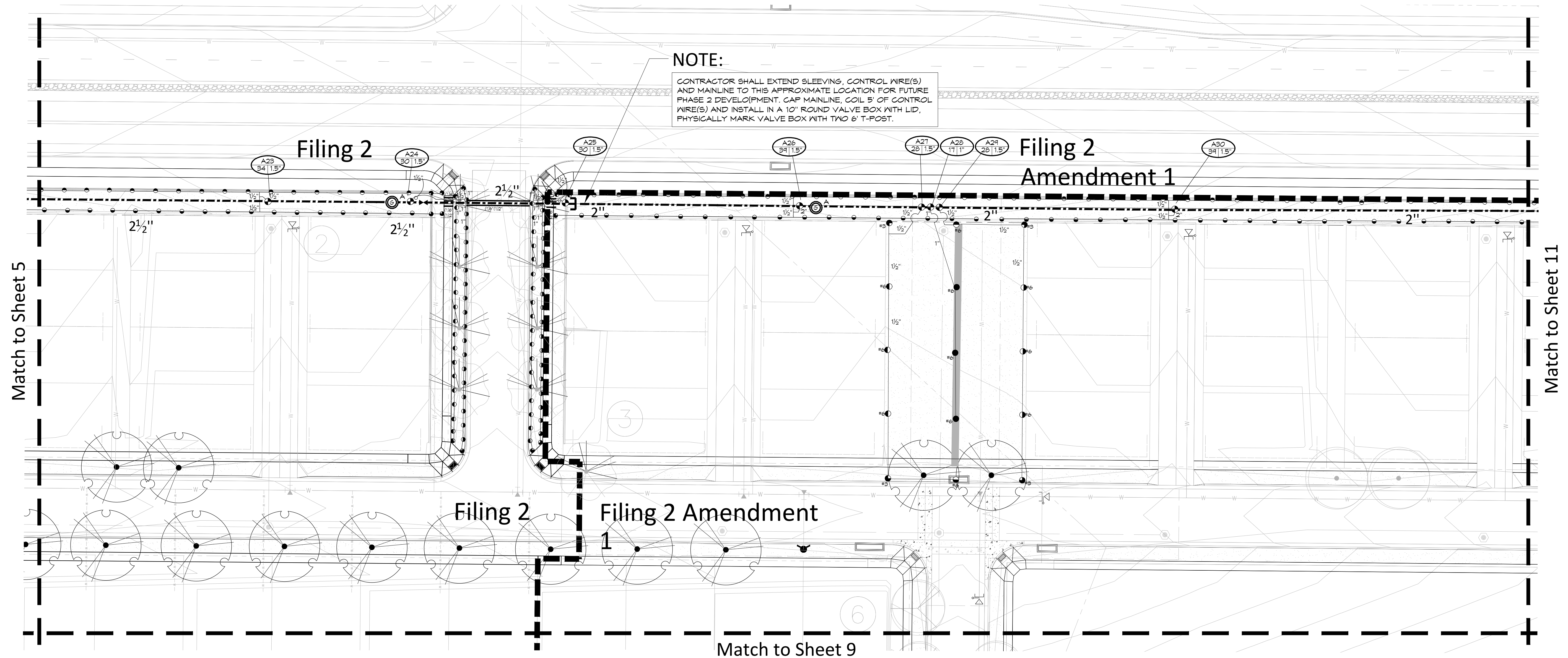


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ENGINEER Manhard Consulting 8008 E. Arapahoe Ct. Suite 110 Centennial 80112 (303) 531-3213	Scale 1" = 30' 0 15' 30' 60'	Sheet 8 of 16
PLANWEST PLANNING SITE DESIGN LANDSCAPE ARCHITECTURE ENTITLEMENTS Denver, Colorado, 80204 303-741-1411	North	

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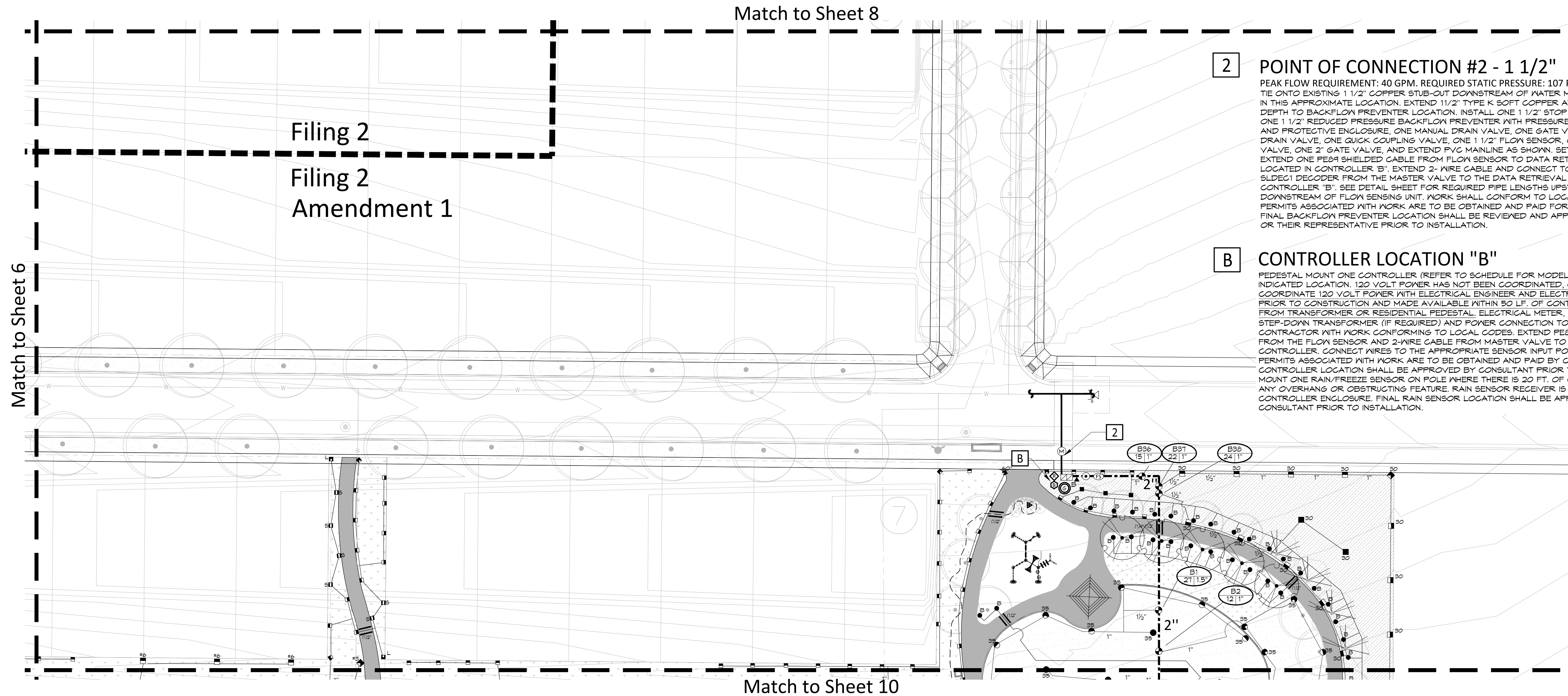


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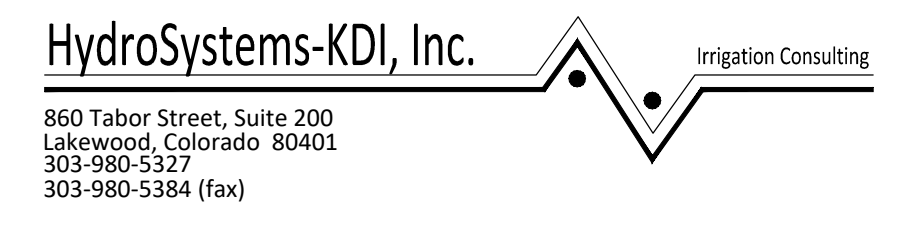
2 POINT OF CONNECTION #2 - 1 1/2"
PEAK FLOW REQUIREMENT: 40 GPM. REQUIRED STATIC PRESSURE: 107 PSI
TIE ONTO EXISTING 1 1/2" COPPER STUB-OUT DOWNSTREAM OF WATER METER AT 54" DEPTH
IN THIS APPROXIMATE LOCATION. EXTEND 1 1/2" TYPE K SOFT COPPER AT 54" MINIMUM
DEPTH TO BACKFLOW PREVENTER LOCATION. INSTALL ONE 1 1/2" STOP AND WASTE VALVE,
ONE 1 1/2" REDUCED PRESSURE BACKFLOW PREVENTER WITH PRESSURE REDUCING VALVE
AND PROTECTIVE ENCLOSURE, ONE MANUAL DRAIN VALVE, ONE GATE VALVE, ONE MANUAL
DRAIN VALVE, ONE QUICK COUPLING VALVE, ONE 1 1/2" FLOW SENSOR, ONE 1 1/2" MASTER
VALVE, ONE 2" GATE VALVE, AND EXTEND PVC MAINLINE AS SHOWN. SET PRV TO 44 PSI.
EXTEND ONE PE99 SHIELDED CABLE FROM FLOW SENSOR TO DATA RETRIEVAL UNIT
LOCATED IN CONTROLLER 'B'. EXTEND 2-WIRE CABLE AND CONNECT TO THE WIRES FROM
SLDEC1 DECODER FROM THE MASTER VALVE TO THE DATA RETRIEVAL BOARD IN
CONTROLLER 'B'. SEE DETAIL SHEET FOR REQUIRED PIPE LENGTHS UPSTREAM AND
DOWNSTREAM OF FLOW SENSING UNIT. WORK SHALL CONFORM TO LOCAL CODE. FEES AND
PERMITS ASSOCIATED WITH WORK ARE TO BE OBTAINED AND PAID FOR BY CONTRACTOR.
FINAL BACKFLOW PREVENTER LOCATION SHALL BE REVIEWED AND APPROVED BY OWNER
OR THEIR REPRESENTATIVE PRIOR TO INSTALLATION.

B CONTROLLER LOCATION "B"
PEDESTAL MOUNT ONE CONTROLLER (REFER TO SCHEDULE FOR MODEL & STATION COUNT) AT
INDICATED LOCATION. 120 VOLT POWER HAS NOT BEEN COORDINATED. CONTRACTOR SHALL
COORDINATE 120 VOLT POWER WITH ELECTRICAL ENGINEER AND ELECTRICAL CONTRACTOR
PRIOR TO CONSTRUCTION AND MAKE AVAILABLE WITHIN 50 LF. OF CONTROLLER LOCATION
FROM TRANSFORMER OR RESIDENTIAL PEDESTAL ELECTRICAL METER, WIRE/CONDUIT
STEP-DOWN TRANSFORMER (IF REQUIRED) AND POWER CONNECTION TO CONTROLLER IS BY
CONTRACTOR WITH WORK CONFORMING TO LOCAL CODES. EXTEND PE99 SHIELDED CABLE
FROM THE FLOW SENSOR AND 2-WIRE CABLE FROM MASTER VALVE TO ASSOCIATED
CONTROLLER. CONNECT WIRES TO THE APPROPRIATE SENSOR INPUT PORTS. FEES AND
PERMITS ASSOCIATED WITH WORK ARE TO BE OBTAINED AND PAID FOR BY CONTRACTOR.
FINAL CONTROLLER LOCATION SHALL BE APPROVED BY CONSULTANT PRIOR TO INSTALLATION.
MOUNT ONE RAIN/FREEZE SENSOR ON POLE WHERE THERE IS 20 FT. OF CLEARANCE FROM
ANY OVERHANG OR OBSTRUCTING FEATURE. RAIN SENSOR RECEIVER IS INCLUDED WITHIN
CONTROLLER ENCLOSURE. FINAL RAIN SENSOR LOCATION SHALL BE APPROVED BY
CONSULTANT PRIOR TO INSTALLATION.

COMPARK VILLAGE SOUTH FILING NO. 2 & COMPARK VILLAGE SOUTH FILING NO. 2 - AMENDMENT NO. 1 FINAL IRRIGATION PLAN - SECTIONS

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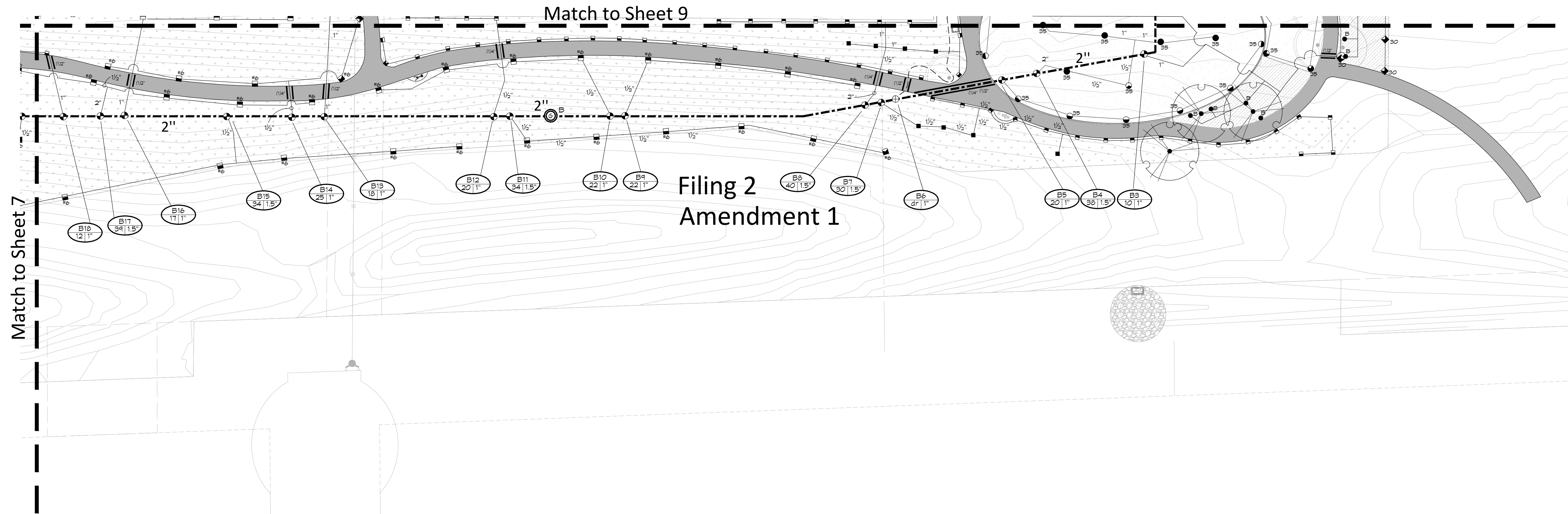


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& COMPARK VILLAGE SOUTH FILING
NO. 2 - AMENDMENT NO. 1
FINAL IRRIGATION PLAN - SECTIONS**

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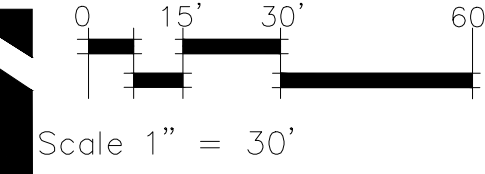
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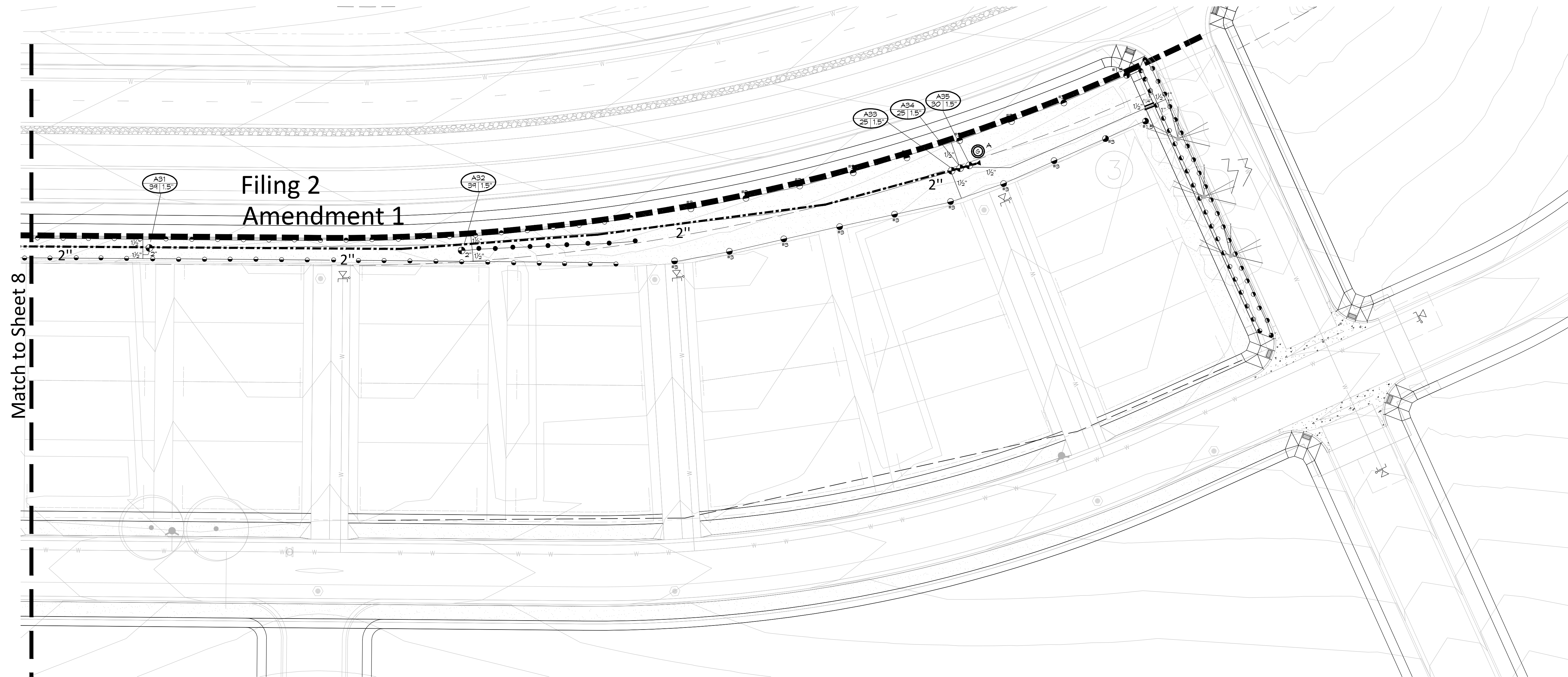


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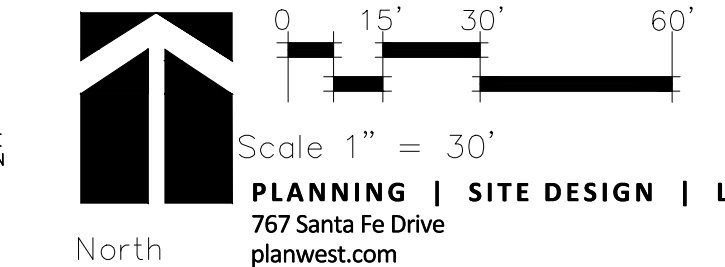
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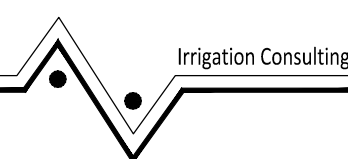
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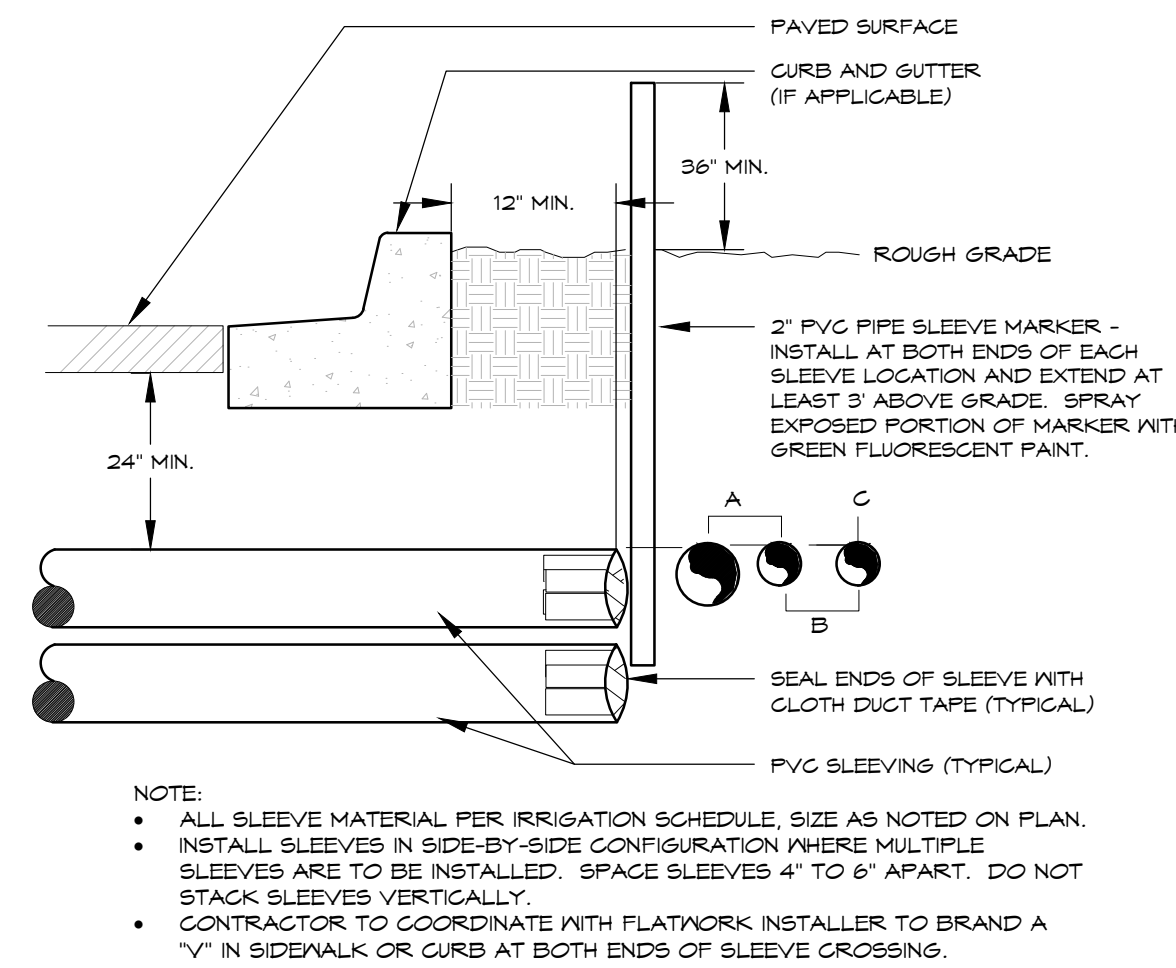
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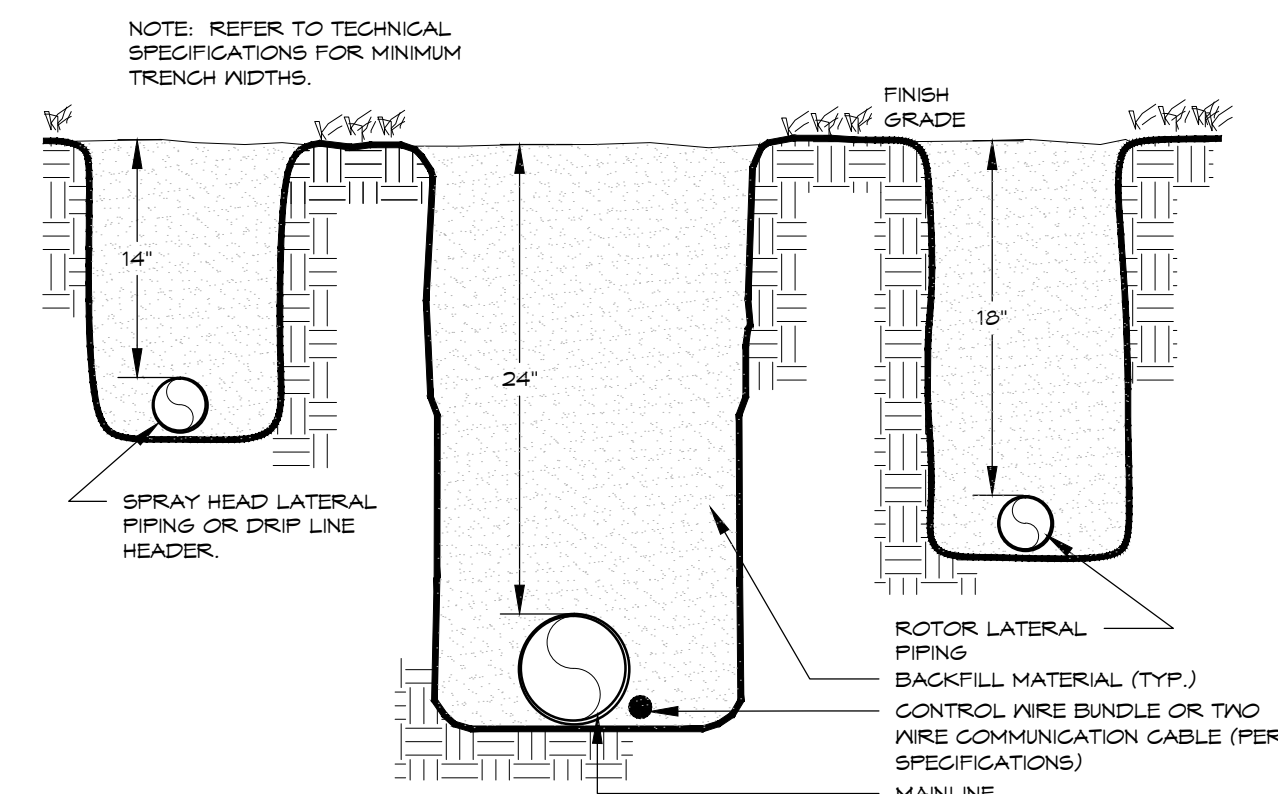
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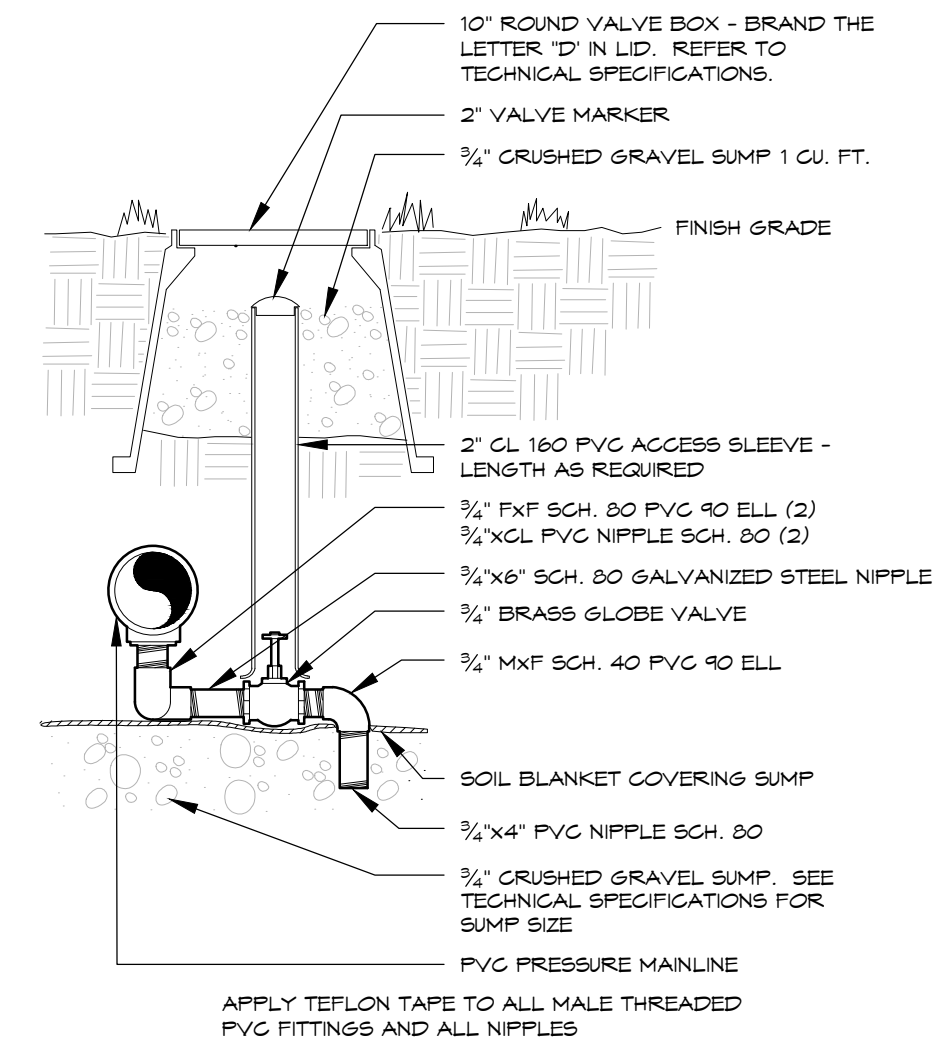
IRRIGATION SLEEVING

1



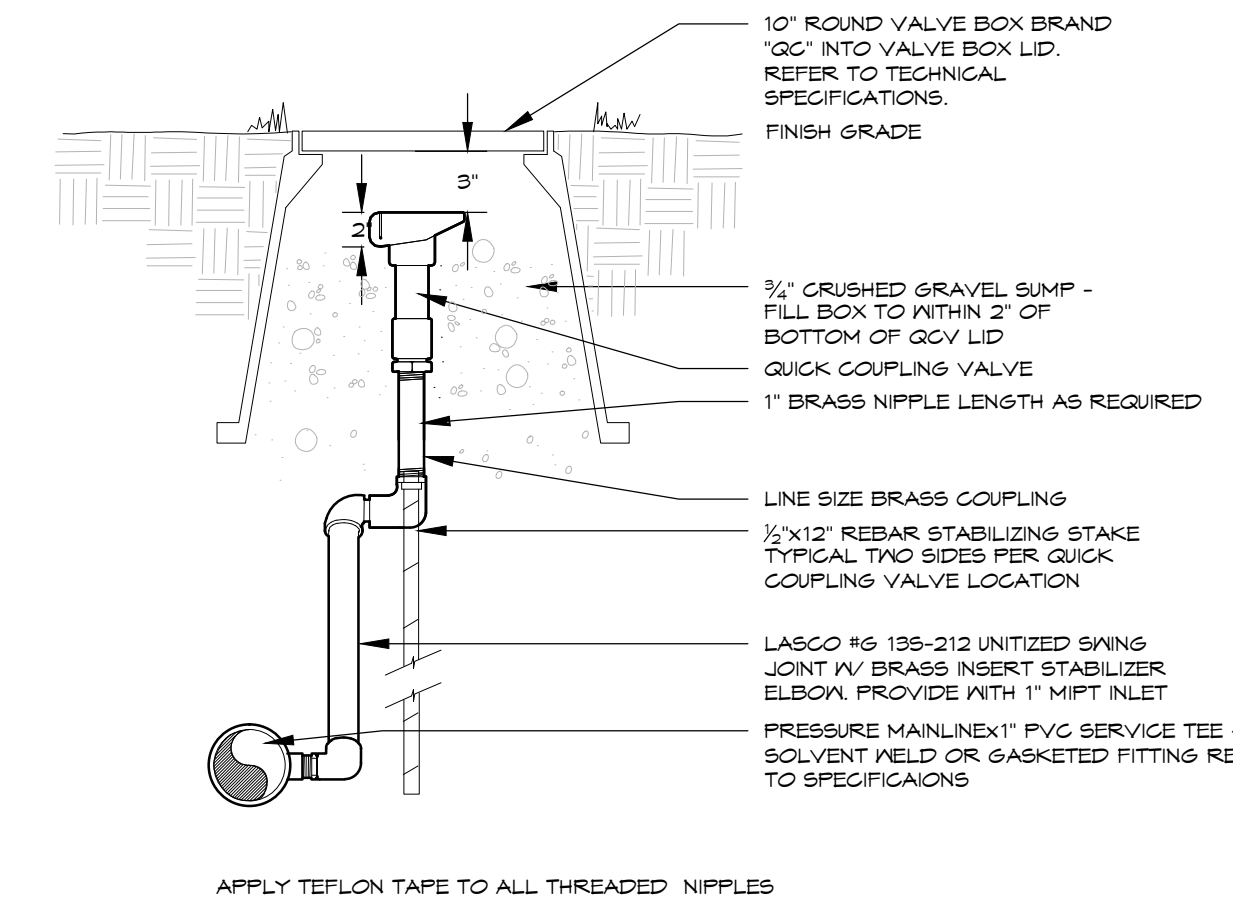
TRENCH
24" TYPICAL

2



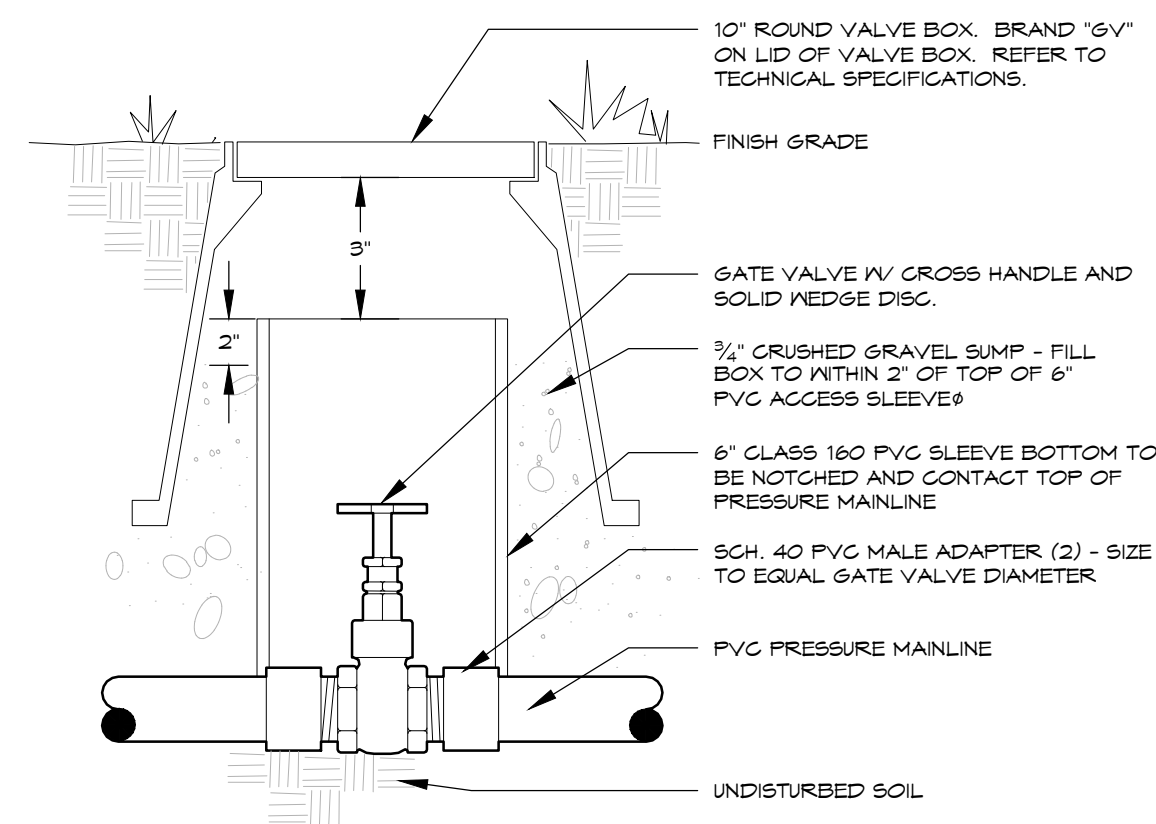
MANUAL DRAIN VALVE

3



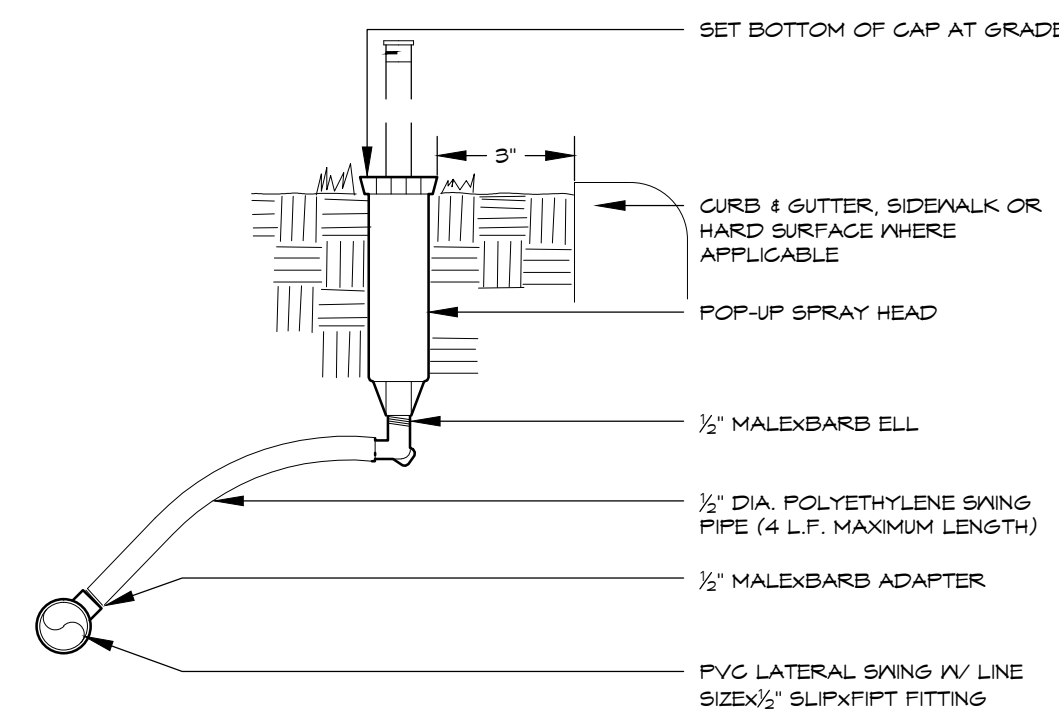
QUICK COUPLING VALVE

4



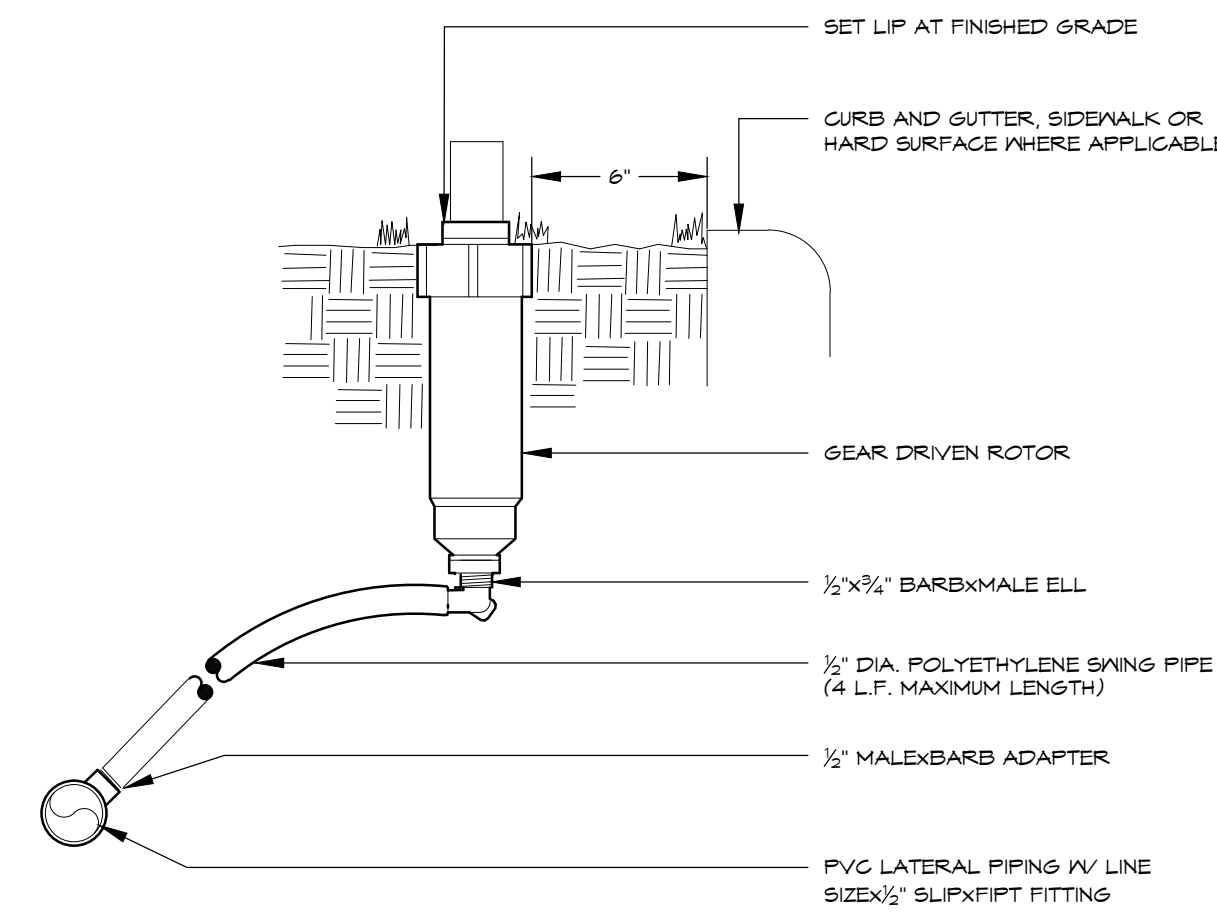
GATE VALVE

5



POP-UP SPRAY HEAD

6



GEAR DRIVEN ROTOR

7

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- 12 - 15 IRRIGATION DETAILS
- 16 IRRIGATION CHARTS



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 290 Fillmore St., Suite 2
 Denver, CO 80206

LANDSCAPE ARCHITECT
 Plan West, Inc.
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 Denver, CO 80204
 (303) 741-1411

Town of Parker
 Colorado

job no. 2015/20
 date 07-05-2017
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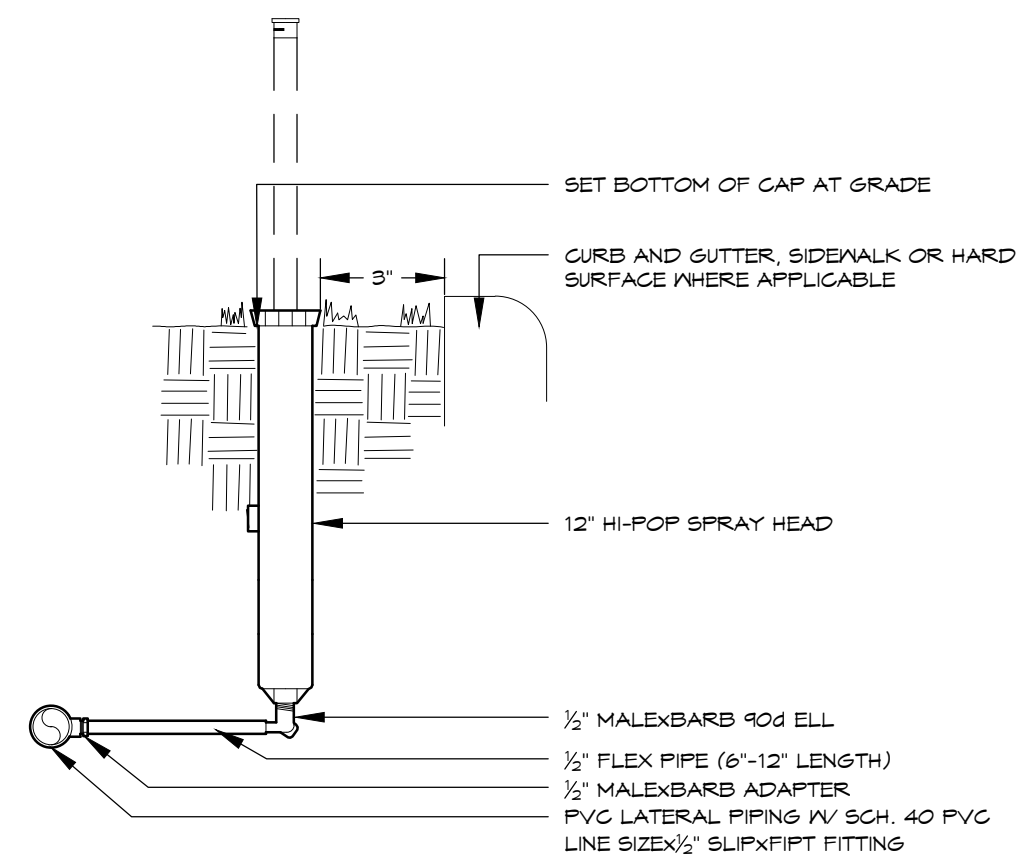
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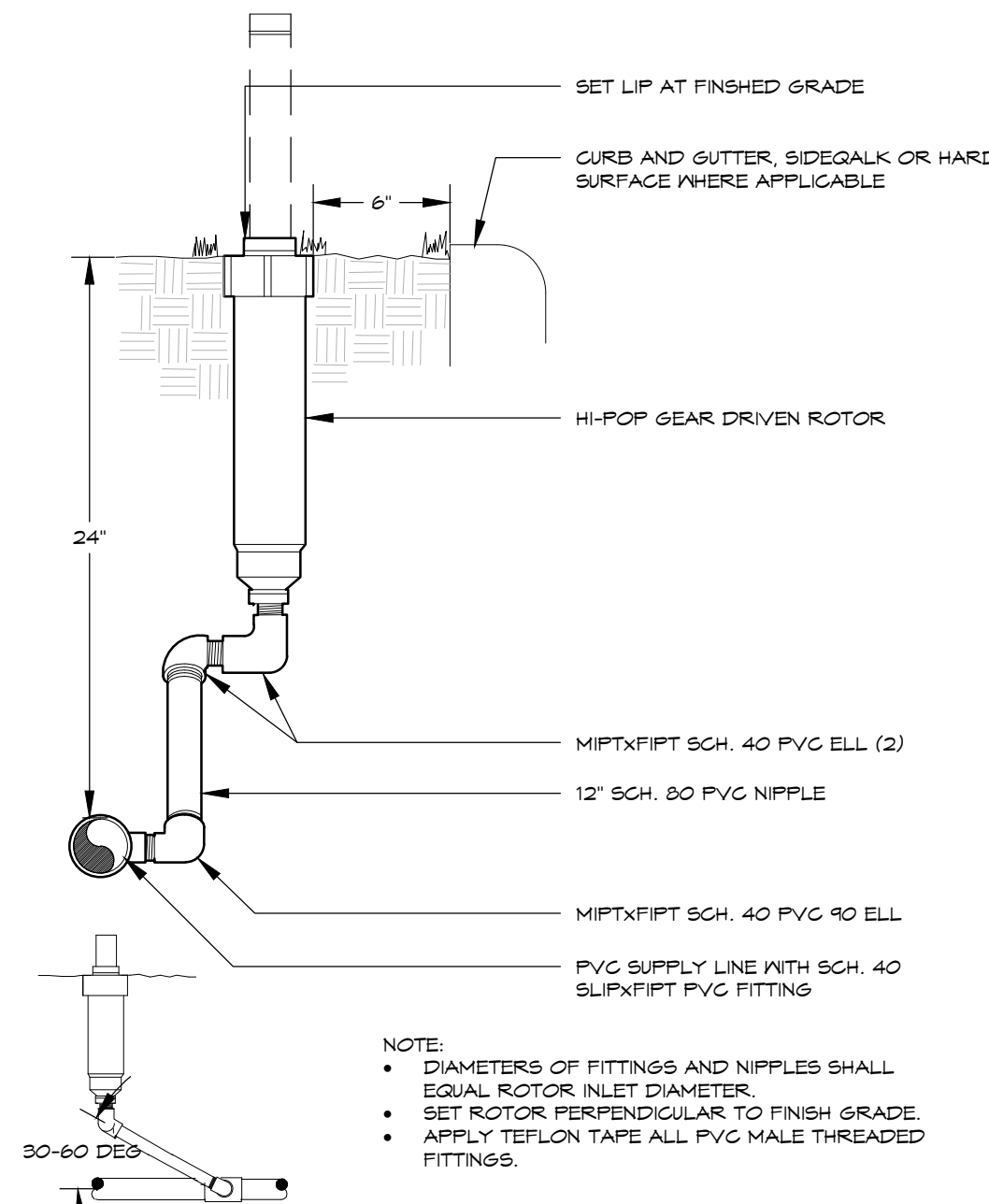
A PARCEL OF LAND LOCATED IN THE SOUTH HALF OF SECTION 6, TOWNSHIP 6 SOUTH RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO
PLANNING AREA 17 & 18
32.86 ACRES, 192 RESIDENTIAL UNITS, 20 TRACTS



- NOTE:
- SET HEAD PERPENDICULAR TO FINISH GRADE SWING.
 - FLEX PIPE SHALL BE ATTACHED TO BOTTOM SPRAY HEAD INLET ONLY.
 - APPLY TEFLON TAPE TO ALL MALE PVC THREADED FITTINGS AND NIPPLES.

HI-POP SPRAY HEAD

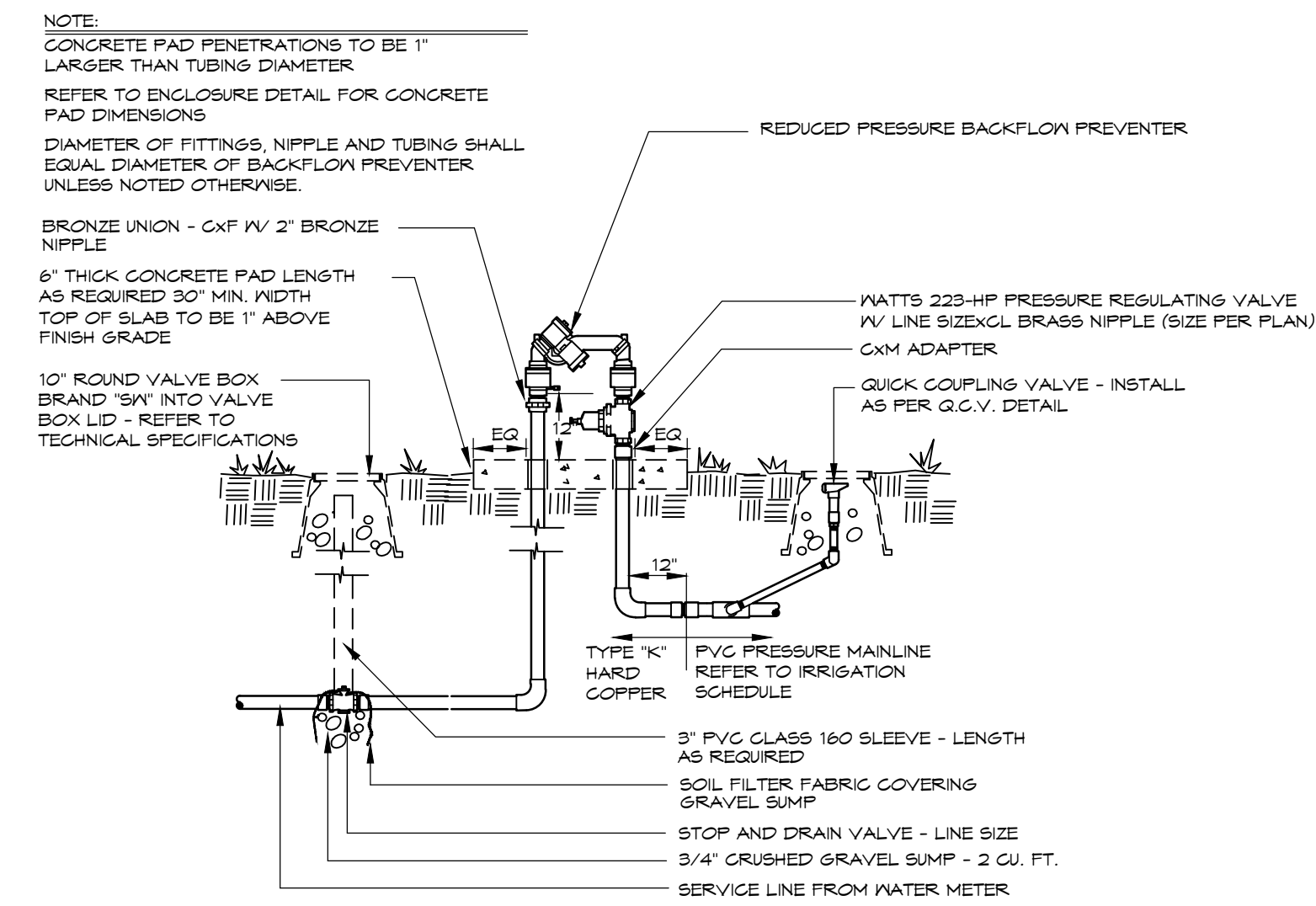
8



- NOTE:
- DIAMETERS OF FITTINGS AND NIPPLES SHALL EQUAL ROTOR INLET DIAMETER.
 - SET ROTOR PERPENDICULAR TO FINISH GRADE.
 - APPLY TEFLON TAPE TO ALL PVC MALE THREADED FITTINGS.

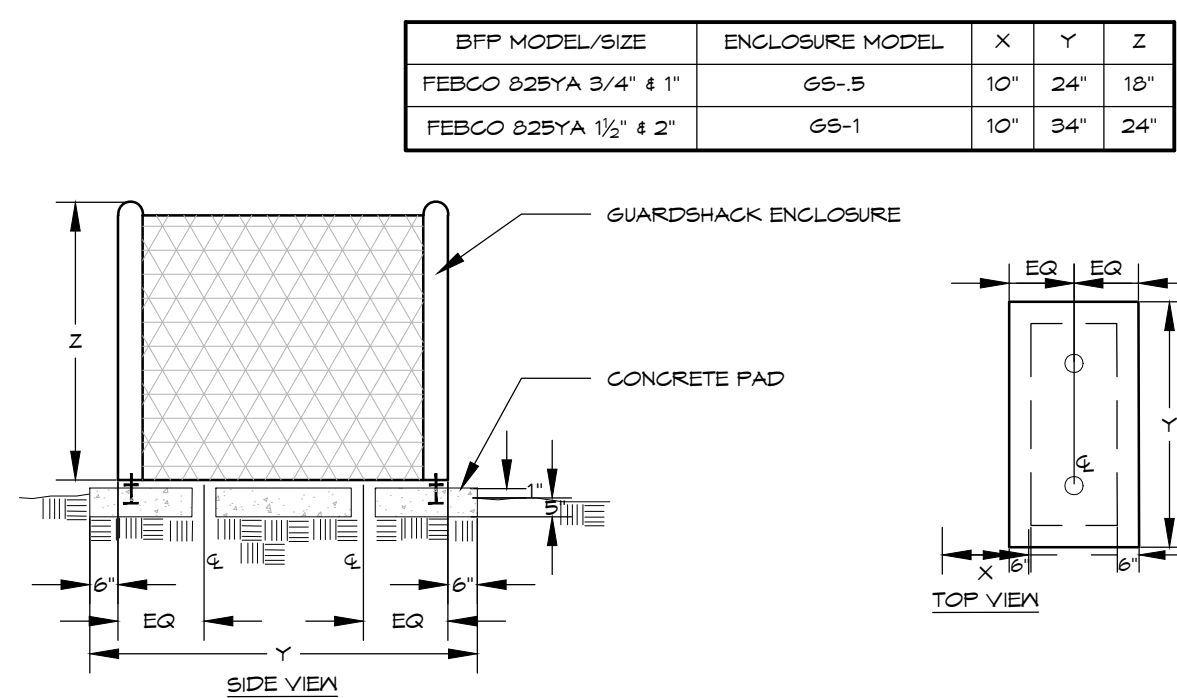
HI-POP GEAR DRIVEN ROTOR

9



BACKFLOW PREVENTER W/Pressure Regulating Valve

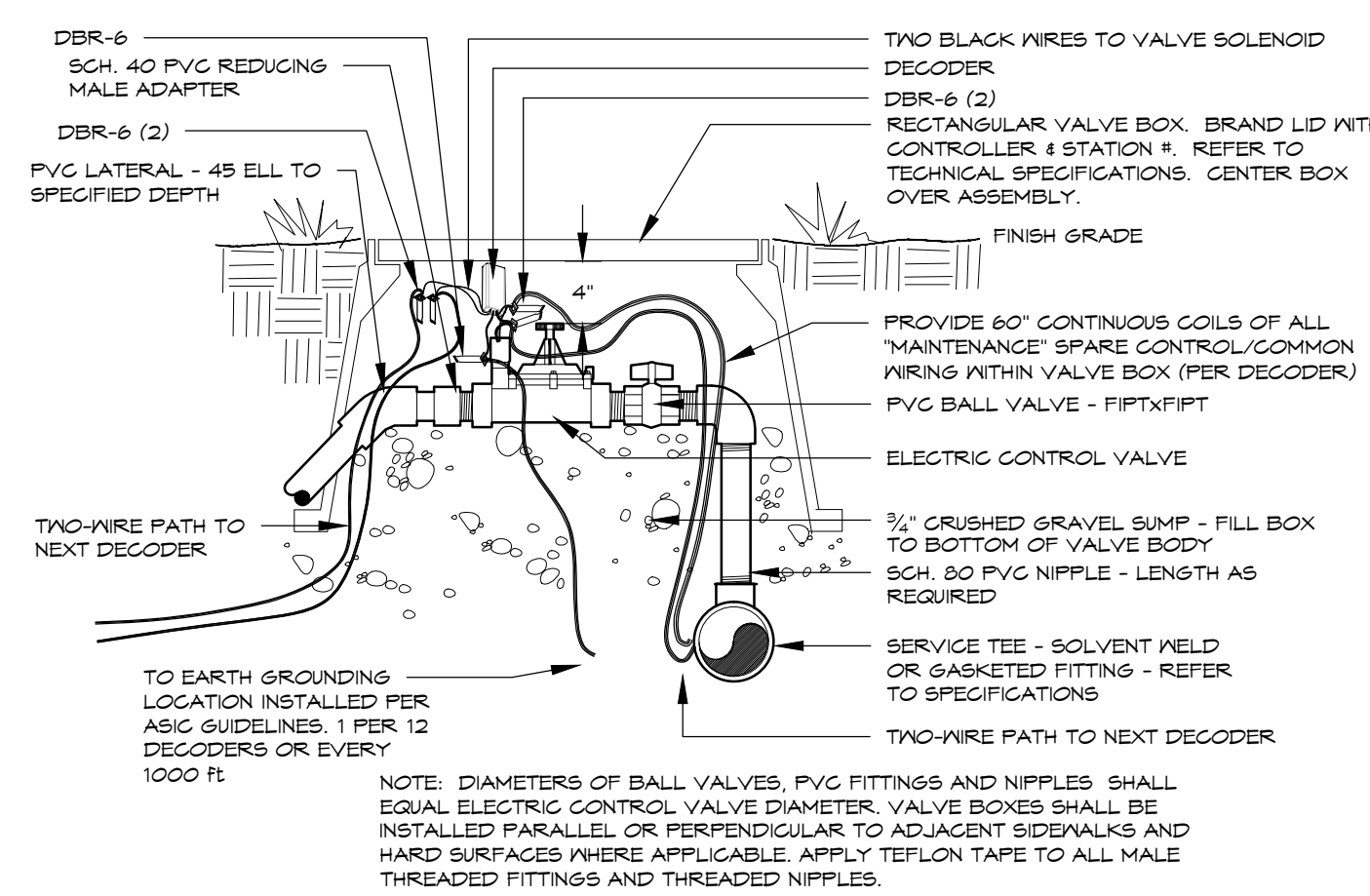
10



- NOTE:
- PAD PENETRATIONS FOR BACKFLOW PREVENTER RISERS TO BE 1" LARGER THAN RISER DIAMETER.
 - TOP SURFACE OF CONCRETE PAD SHALL BE 1" ABOVE FINISH GRADE.
 - INSTALL ENCLOSURE ANCHORS AS PER MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE OWNER WITH KEYPAD LOCK FOR ENCLOSURE.
 - PROVIDE ENCLOSURE IN FEDERAL GREEN COLOR, UNLESS OTHERWISE NOTED (SEE SCHEDULE).

BACKFLOW ENCLOSURE GUARDSHACK - 3/4" - 2" SYSTEMS

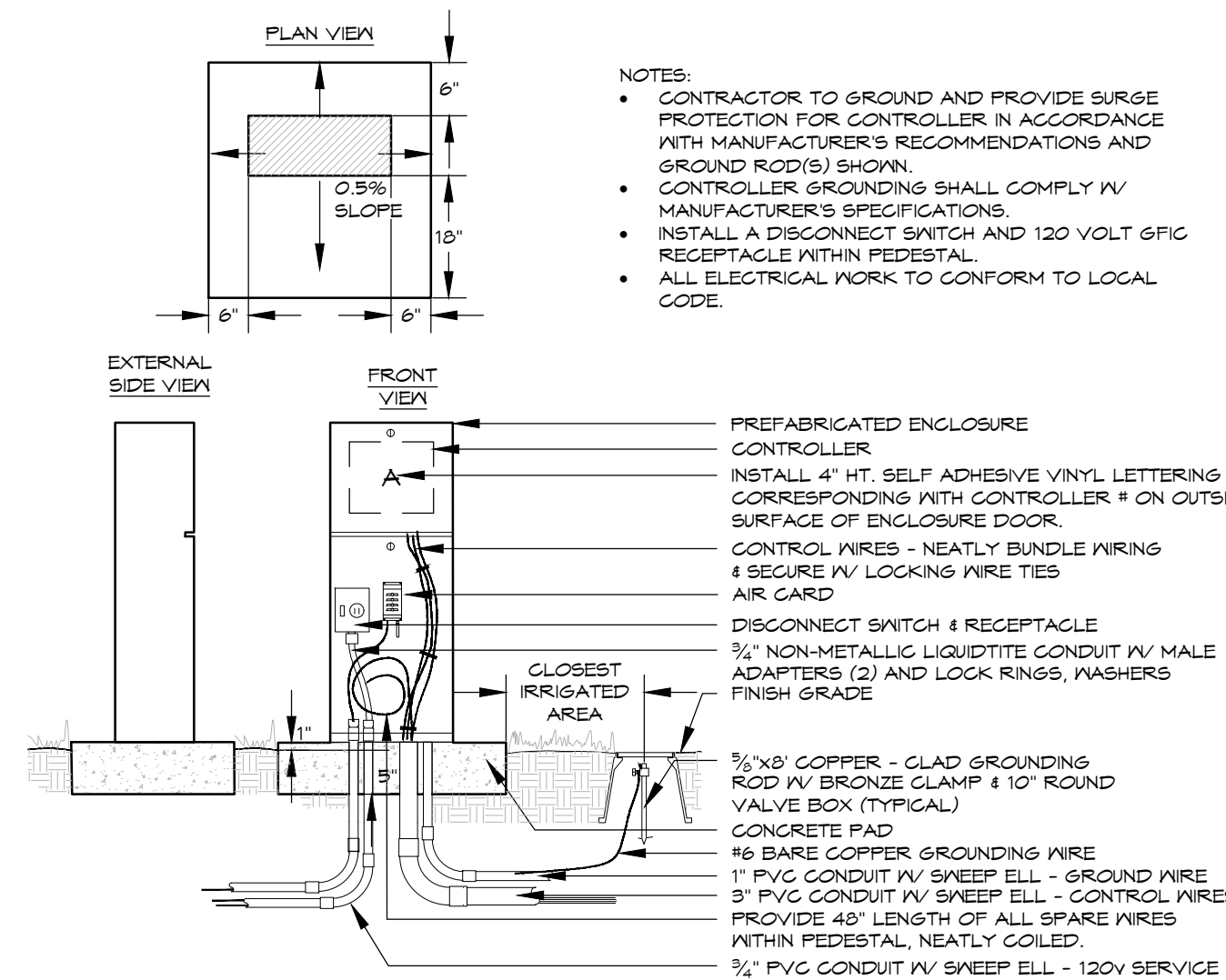
11



- NOTE: DIAMETERS OF BALL VALVES, PVC FITTINGS AND NIPPLES SHALL EQUAL ELECTRIC CONTROL VALVE DIAMETER. VALVE BOXES SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO ADJACENT SIDEWALKS AND HARD SURFACES WHERE APPLICABLE. APPLY TEFLON TAPE TO ALL MALE THREADED FITTINGS AND THREADED NIPPLES.

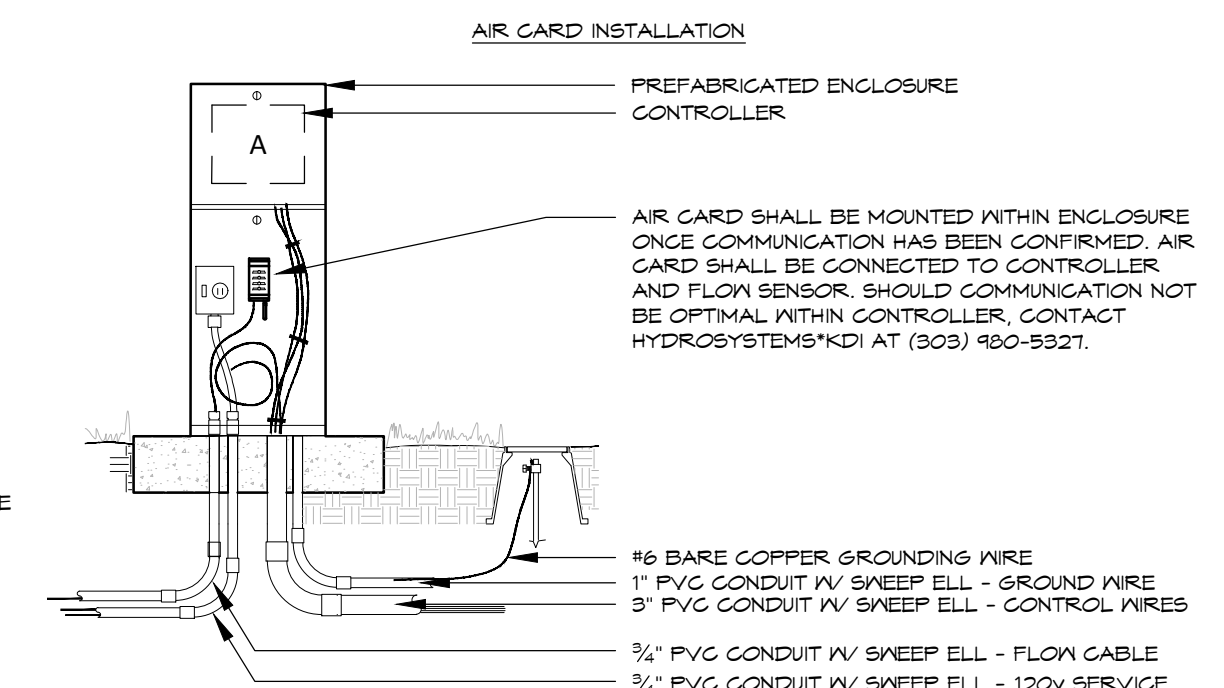
ELECTRIC CONTROL VALVE TWO WIRE SYSTEM

12



ELECTRIC CONTROLLER PEDESTAL

13



WEB-BASED CONTROL - REFER TO IRRIGATION CONSTRUCTION NOTES FOR WEATHERMATIC SMARTLINK WEB-BASED CONTROL SYSTEM WITH FLOW MONITORING AND REPORTING FOR PRICING, STARTUP, INITIALIZATION, WATER MANAGEMENT, SUBSCRIPTION, AND COORDINATION INFORMATION.

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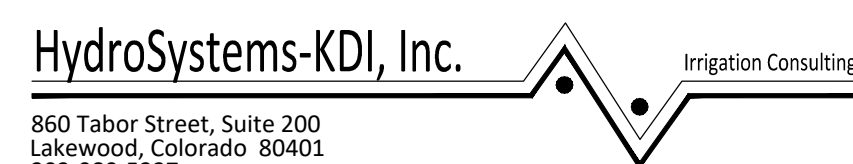
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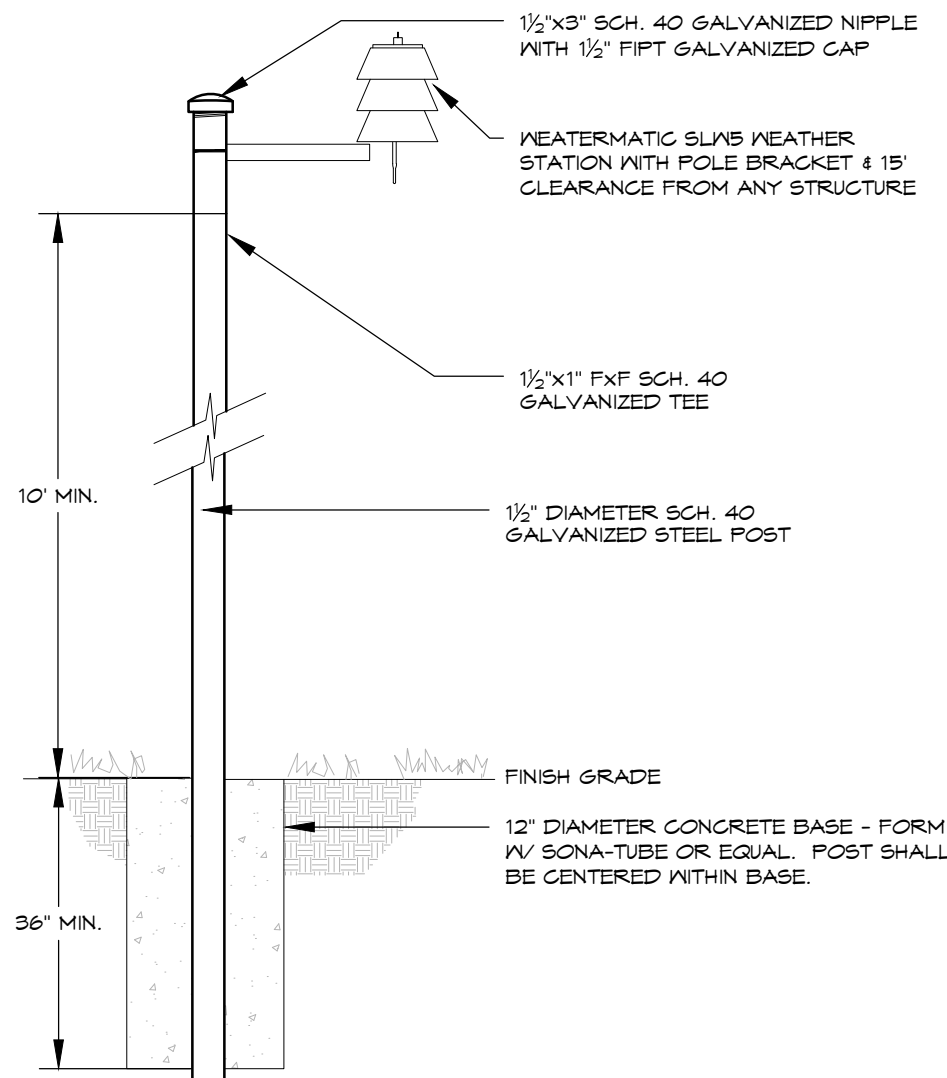


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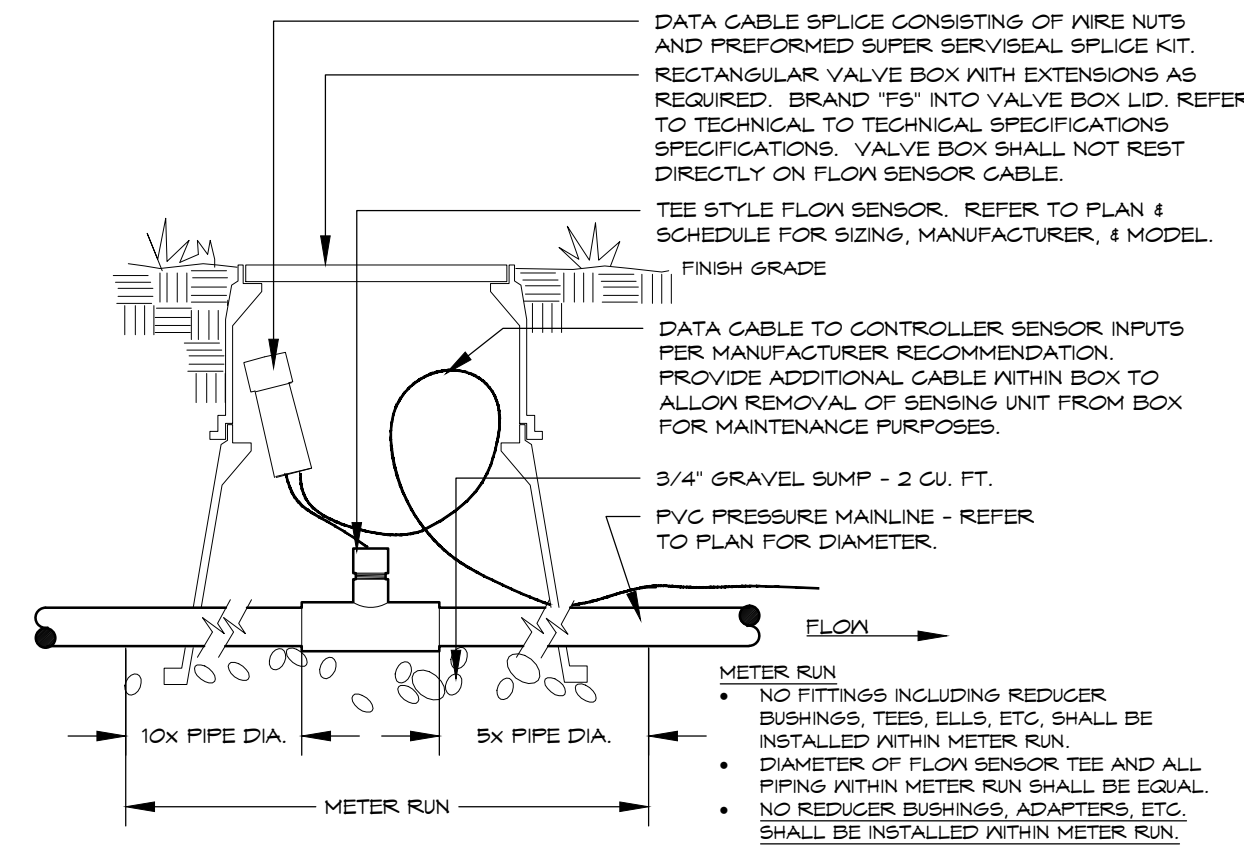
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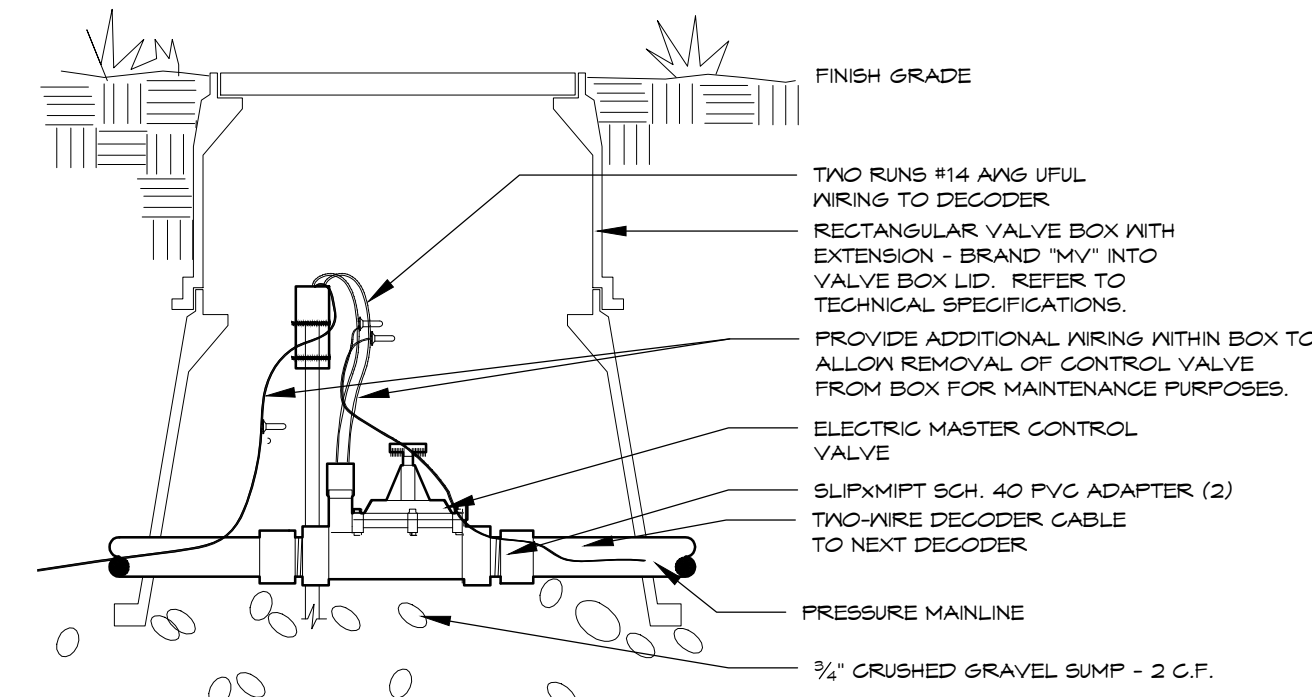
WEATHER SENSOR
 Pole Mounted - Wireless

14



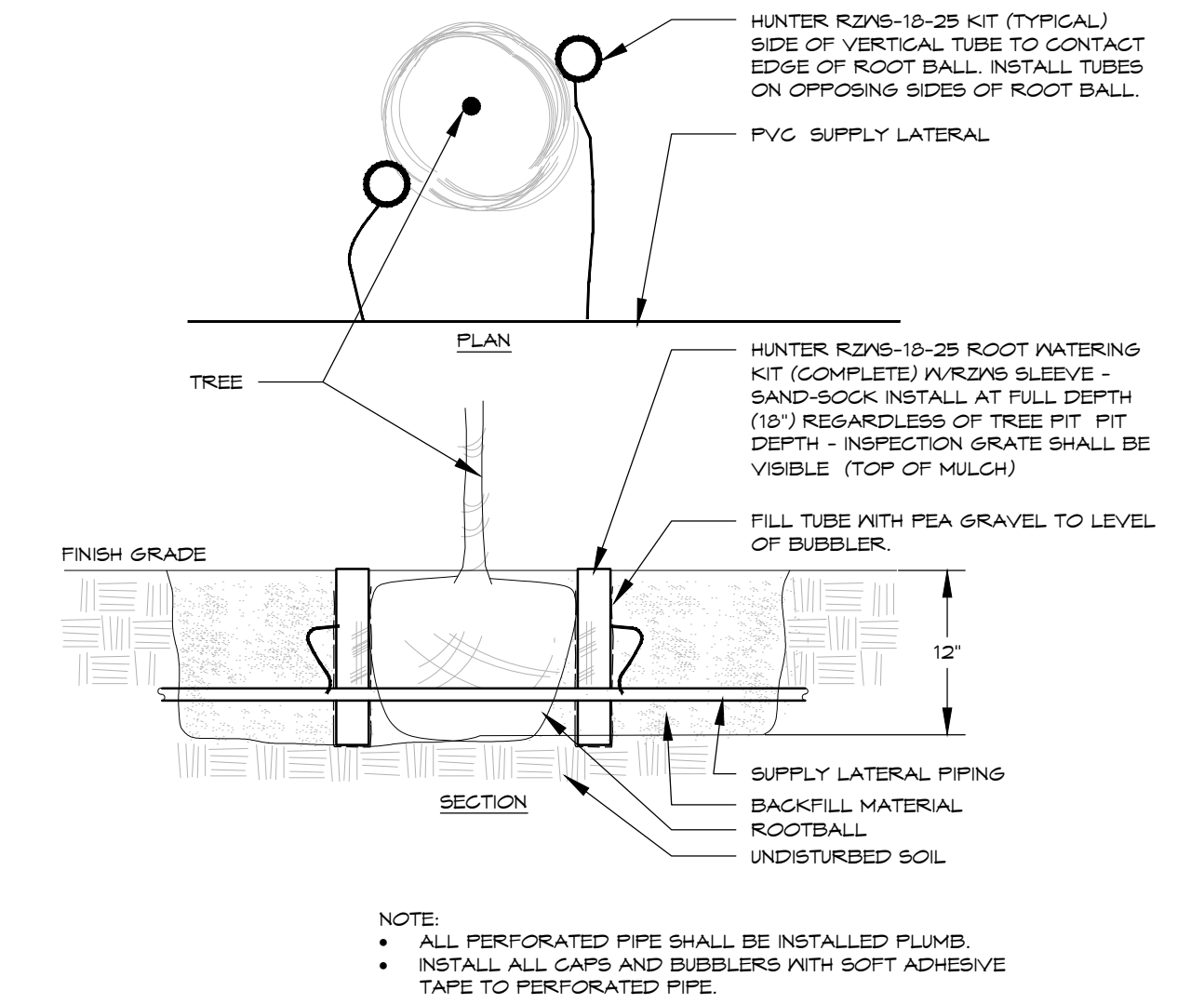
FLOW SENSOR
 TEE STYLE

15



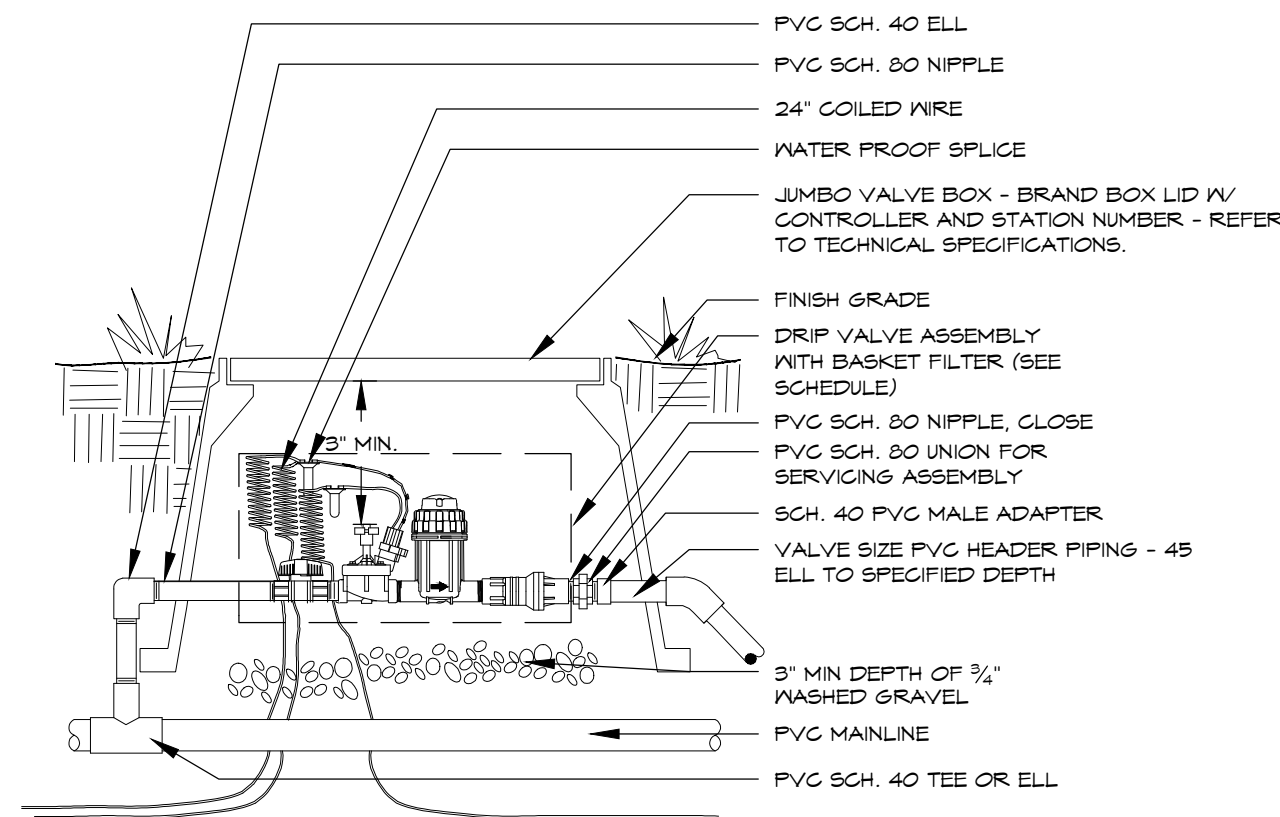
MASTER VALVE
 TWO WIRE SYSTEM - TAPS 2" & SMALLER

16



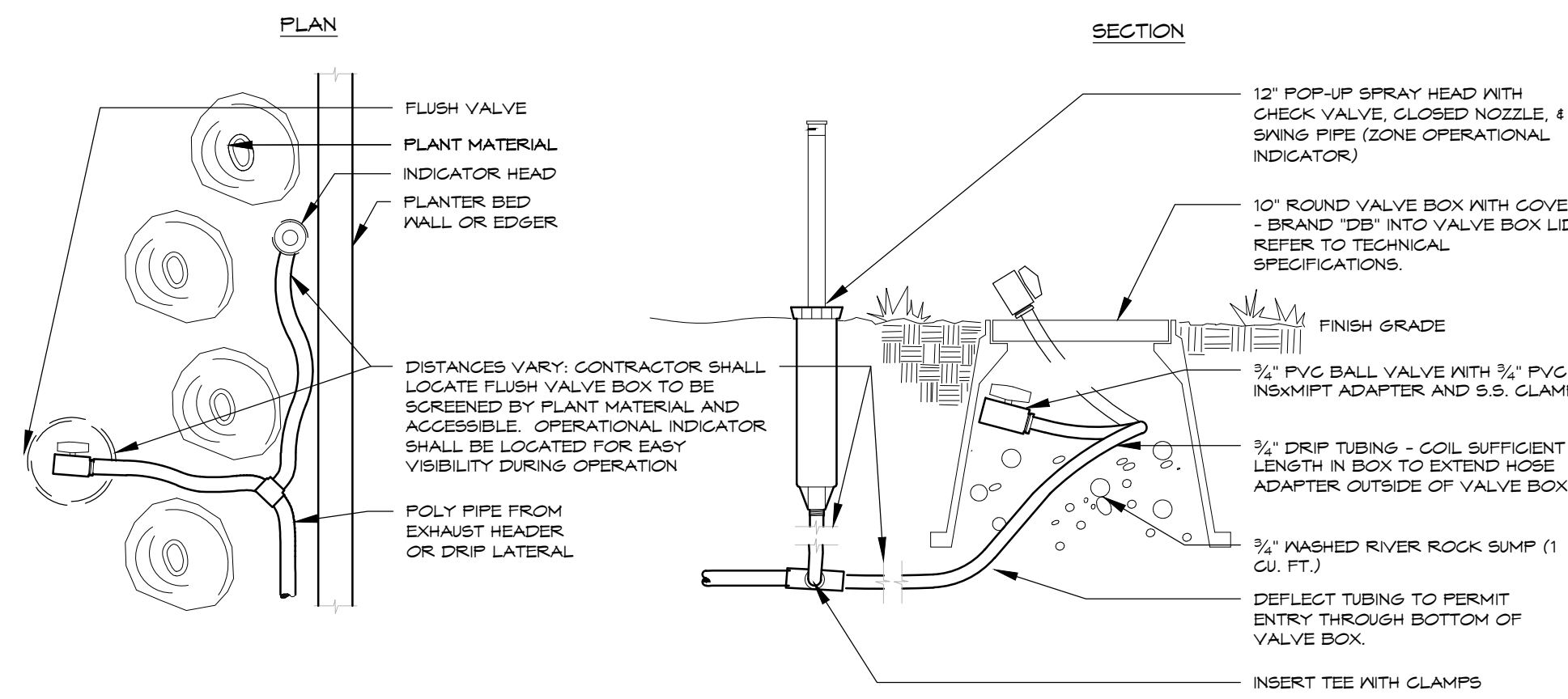
BUBBLER

17



DRIP VALVE
 TWO-WIRE SYSTEM

18



DRIP FLUSH VALVE

19

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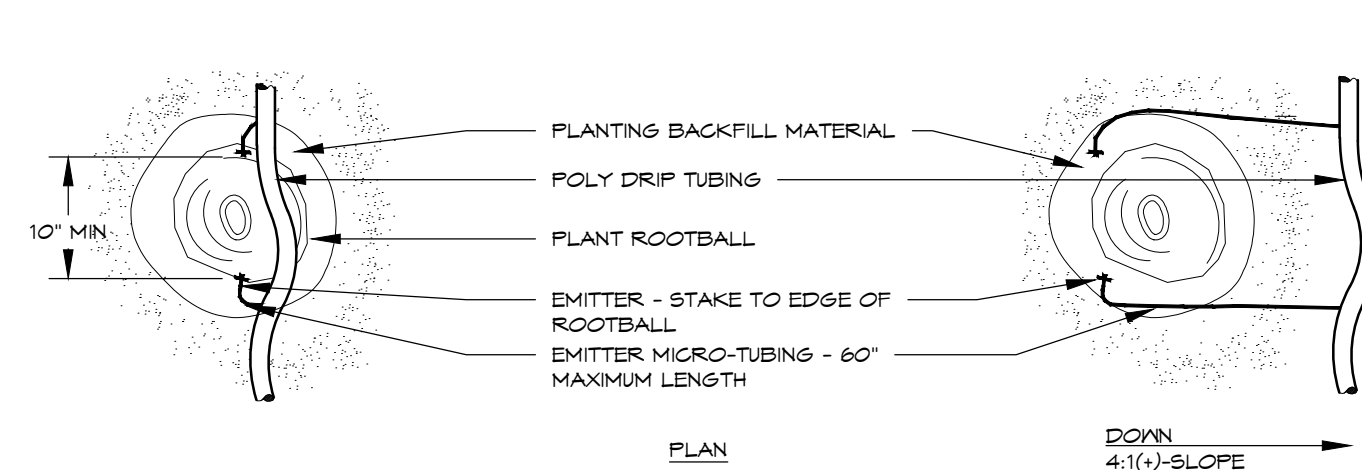


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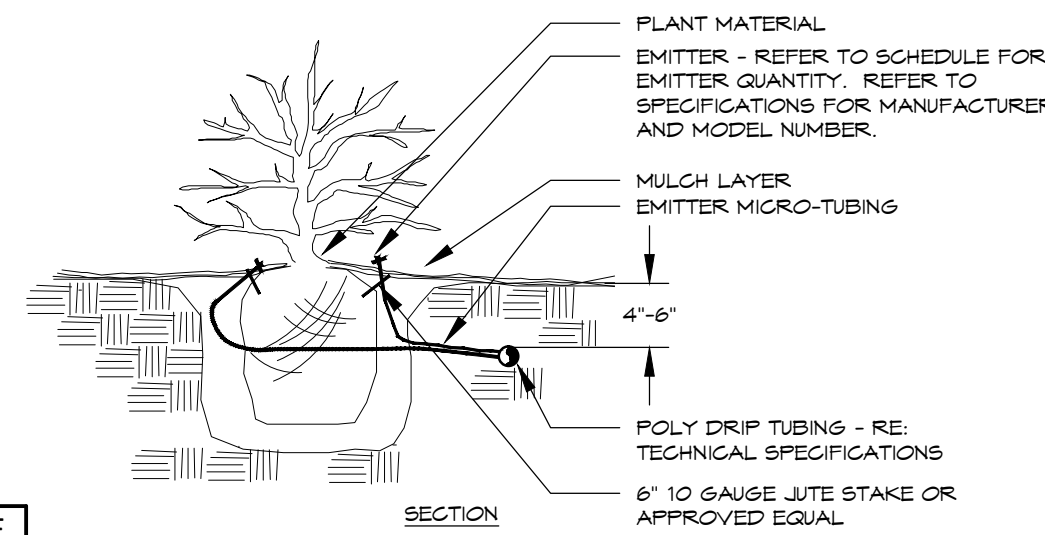
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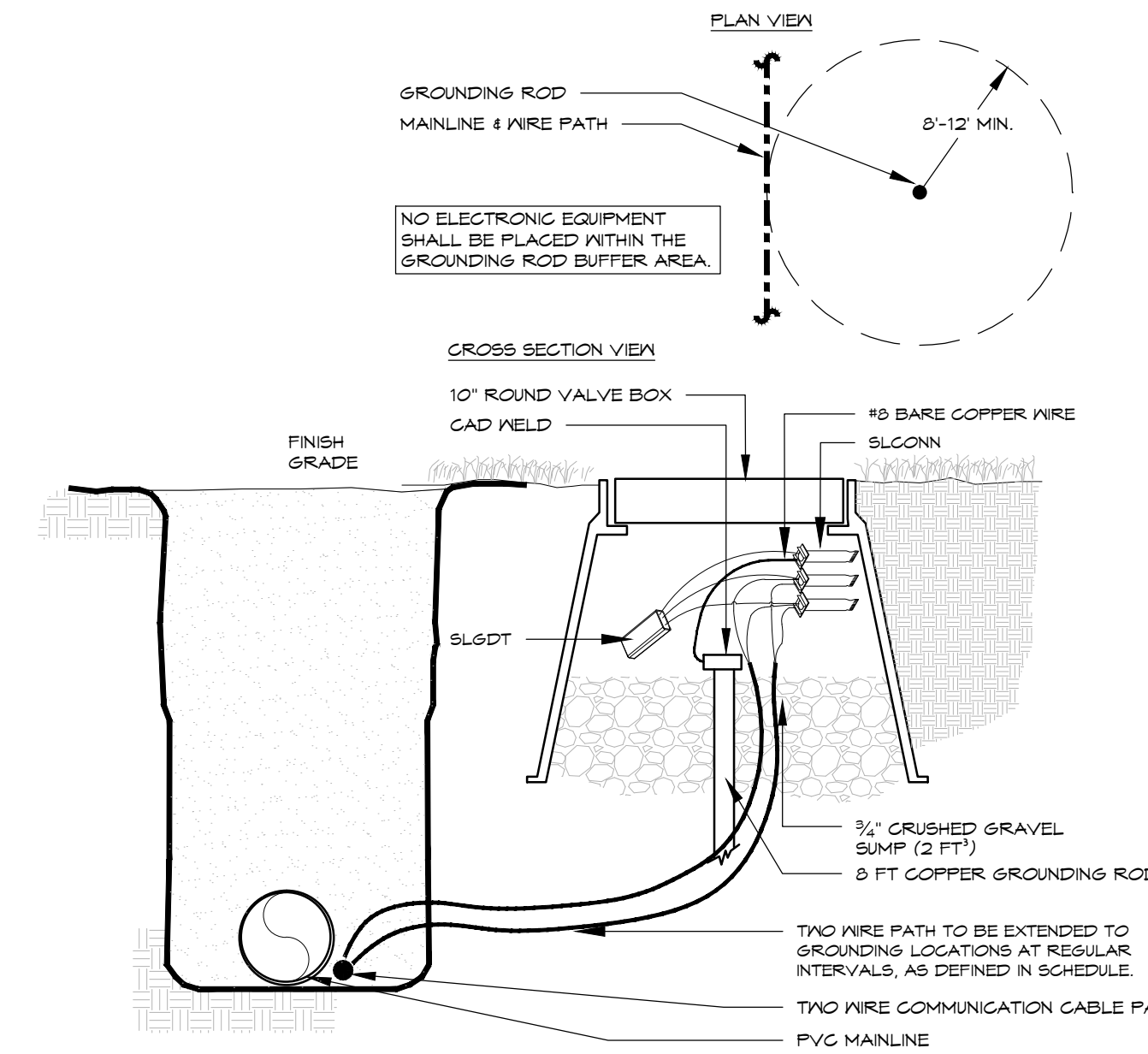
PLANT SIZE	EMITTER FLOW RATE	EMITTER QTY. AT MULCHED BED LOCATIONS	EMITTER QTY. AT NATIVE SEED LOCATIONS
1 - 2 GALLON MATERIAL	0.5 GPH	ONE EACH	ONE EACH
5 GALLON MATERIAL	0.5 GPH	TWO EACH	TWO EACH
1 1/2" CALIPER TREE	1.0 GPH	THREE EACH	FOUR EACH
2" CALIPER TREE	1.0 GPH	FOUR EACH	SIX EACH
2 1/2" CALIPER TREE	1.0 GPH	SIX EACH	EIGHT EACH
3" CALIPER TREE	1.0 GPH	EIGHT EACH	TEN EACH
3 1/2" CALIPER TREE	1.0 GPH	NINE EACH	ELEVEN EACH
4" CALIPER TREE	1.0 GPH	TEN EACH	TWELVE EACH
6 FT. CONIFEROUS TREE	1.0 GPH	FOUR EACH	SIX EACH
8 FT. CONIFEROUS TREE	1.0 GPH	SIX EACH	NINE EACH
10 FT. CONIFEROUS TREE	1.0 GPH	EIGHT EACH	TWELVE EACH
12 FT. CONIFEROUS TREE	1.0 GPH	TEN EACH	FOURTEEN EACH



- NOTES:
- INSTALL EMITTERS ON OPPOSING SIDES OF ROOTBALL. THREE OR MORE EMITTERS SHALL BE EQUALLY SPACED AROUND ROOT BALL.
 - EMITTERS ARE TO BE INSTALLED TO CLEAR SURFACE BY A MINIMUM OF 1" AND A MAXIMUM OF 2".
 - FLUSH ALL LINES THOROUGHLY, INCLUDING EMITTER MICRO-TUBING PRIOR TO EMITTER INSTALLATION.
 - IF PLANTING ON A 4:1 SLOPE OR STEEPER, INSTALL BOTH EMITTERS ON UPHILL SIDE OF ROOT BALL.
 - EMITTERS SHALL BE SELF-FLUSHING, PRESSURE COMPENSATING-TYPE UNLESS NOTED OTHERWISE WITHIN TECHNICAL SPECIFICATIONS.
 - DRIP VALVE ZONES ARE DESIGNED TO ACCOUNT FOR DIFFERENCES IN PLANT REQUIREMENTS (HYDROZONES) AND SUN EXPOSURE.
 - CONTRACTOR SHALL ENSURE HYDROZONES ARE VALVED SEPARATELY AS SHOWN ON PLAN.
 - SITE CONDITIONS MAY DICTATE THAT MULTIPLE SUN EXPOSURES ARE VALVED TOGETHER DURING THE DESIGN PROCESS. CONTRACTOR SHALL ADJUST EMITTER SCHEDULE AS FOLLOWS:
 - EMITTER QUANTITIES SHALL REMAIN THE SAME BUT EMITTER GALLONAGES SHALL BE DOUBLED FOR PLANTS WITH SOUTH AND WEST EXPOSURES.
 - EMITTER QUANTITIES AND GALLONAGE SHALL BE AS SHOWN IN SCHEDULE FOR PLANTS WITH NORTH AND EAST EXPOSURES.
 - PLANTINGS WITH NORTH AND EAST EXPOSURE SHALL DICTATE VALVE RUN-TIMES AND CONTRACTOR SHALL ADJUST SCHEDULING ACCORDINGLY.

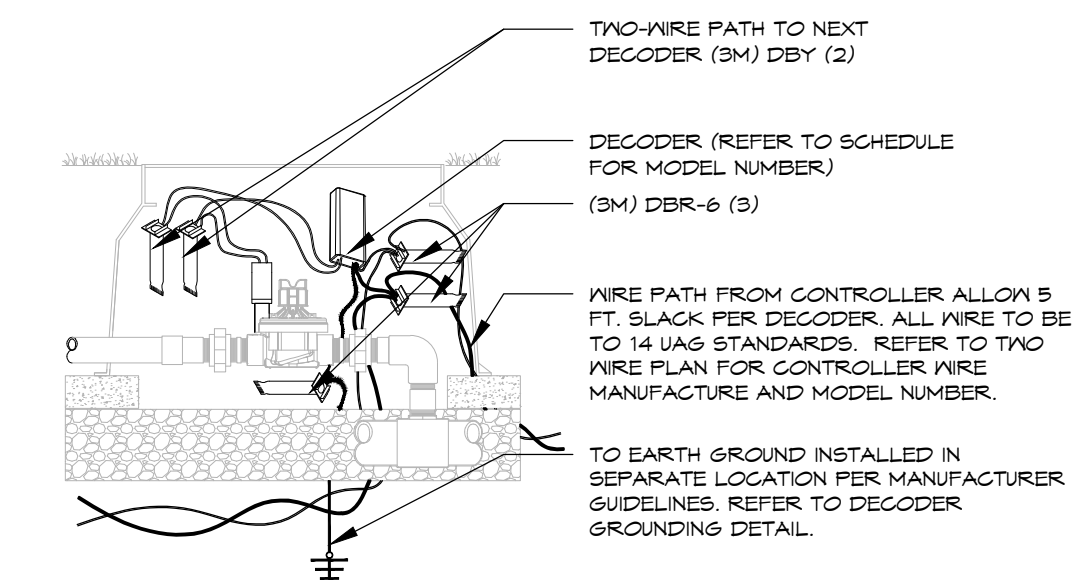
DRIP EMITTER
BELOW GRADE

20



DECODER GROUNDING
VIA GROUNDING ROD

21



TWO-WIRE DECODER
WIRING DIAGRAM

22

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PLANNING AREA 17 & 18
32.86 ACRES, 192 RESIDENTIAL UNITS, 20 TRACTS

Project Name: Compark Village So. Filing 2						
Project Location: Parker						
Date: 27-Dec-16						
Seasonal Water Use and Peak Flow Projections Prepared By HydroSystems-KDI, Inc.						
Description	Irrigated Acres	Month	Application Rate (in./month)	Monthly water use (gallons)	Maximum Required Flow (GPM)	
Spray Irrigated Bluegrass Sod	2.07	April	6.26	351,933		
		May	7.85	440,997		
		June	10.00	562,055		
		July	10.89	612,207		40.1
		August	9.71	545,625		
annual sub-total		Sept.	7.43	417,650		
		October	5.22	293,133		
		57.35 /yr	3,223,600 /yr	9.89 acrefeet		
Spray Irrigated Native Seed	0.78	April	1.74	96,842		
		May	2.19	122,597		
		June	2.79	162,623		
		July	3.03	177,134		5.8
		August	2.70	157,870		
annual sub-total		Sept.	2.07	120,842		
		October	1.45	84,814		
		15.98 /yr	338,378 /yr	1.04 acrefeet		
Drip Irrigated Shrubs & Perennials	0.00	April	2.26	0		
		May	2.83	0		
		June	3.61	0		
		July	3.93	0		0.0
		August	3.51	0		
annual sub-total		Sept.	2.68	0		
		October	1.88	0		
		20.71 /yr	0 /yr	0.00 acrefeet		
Site Totals		2.85 Irrigated acres		3,561,978 gals/yr		
				10.93 acrefeet/yr		
				Peak Season Average Flow		
		1 1/2" Tap		46 (GPM)		

WATER USAGE

C1

Irrigation System Hydraulic Worksheet						
Prepared by HydroSystems-KDI, Inc.						
Date: 27-Dec-16						
Static Water Pressure: 103.00						
Hydraulic Grade: At Zone						
Equipment or Material	Quantity (one if not specified)	Nominal Size	Equipment or Pipe Material	Friction Loss Through Pipe per Chart (psi)	Velocity through pipes (ft/sec)	Flow Rate (gpm)
Corp Stop:	1	1 1/2"	Typical Corp. Stop			40
Svc Line (tap to meter):	20 LF	1 1/2"	K Copper	6.63 /100 FT	7.44	40
Curb Stop:	1	1 1/2"	Typical Curb Stop			40
Water Meter:	1.00	1 1/2"	Typical Meter			40
Svc Line (meter to backflow):	20 LF	1 1/2"	K Copper	6.63 /100 FT	7.44	40
Backflow:	1	1 1/2"	Febco 825YA			40
Stop & Waste:	1	1 1/2"	Typical Stop & Waste Valve			40
Master Valve:	1	1 1/2"	Rainbird EFB			40
Flow Sensor:	1	1 1/2"	-FS Description-			40
PRV:	1	1 1/2"	Watts 223HP			45
Gate Valve:	4	2 1/2"	Typical Bronze Gate Valve			40
Pressure Required at Head:			Pop-Up			30.00
Lateral Allowance:						3.00
Control Valve allowance:			2" Rainbird PEB			40
Mainline allowances:						0.82
1684 LF	2 1/2"	CL 200 PVC	0.38 /100 FT	2.41		40
0 LF	Looped	2" CL 200 PVC	0.26 /100 FT	1.77		40
1056 LF	2"	CL 200 PVC	0.95 /100 FT	3.53		40
Mainline Fitting allowance:			5% of Mainline allowances			0.82
Elevation:						
Tap Elev.	5840		Control Valve Elev.	5825		-6.50
Factor of Safety:			5% System Losses			3.88
Total System requirements (PSI)						81.39
Available pressure (PSI)						103.00
Difference (PSI)						21.61
						Set PRV at 86.00

HYDRAULICS

C2

Project Compark Village So. Filing 2						
Location Parker						
Controller A - Point of Connection # 1 (1 1/2")						
27-Dec-16						
Target Watering Window = six nights per week - seven hours per night (42 hours/week)						
Estimated weekly application = 1.80" (Spray Irrigated Bluegrass Sod)						
Estimated weekly application = 0.68" (Spray Irrigated Native Seed) - Establishment Irrigation Only						
Estimated weekly application = 1.23" (Spray Irrigated Shrubs & Perennials)						
Estimated weekly application = 0.89" (Drip Irrigated Shrubs & Perennials)						
Prepared by HydroSystems-KDI, Inc.						
Zone No.	Plant Type	Zone Description	Precip. Rate in/hr	Zone Flow GPM	Peak Demand In/wk	Zone run time minutes
A1	Native	PC Rotor #5	0.67	11	6.70	10.15
A2	Native	FC Rotor #6	0.39	34	17.44	3.557
A3	Native	PC Rotor #6	0.78	48	8.72	2.511
A4	Native	PC Rotor #6	0.78	45	8.72	2.354
A5	Native	PC Rotor #6	0.78	39	8.72	2.040
A6	Native	Hipop Spray	1.00	19	6.80	7.75
A7	Native	PC Rotor #6	0.39	17	6.68	17.44
A8	Turf	PC Rotor #6	0.78	36	1.80	23.08
A9	Turf	PC Rotor #6	0.78	36	1.80	23.08
A10	Turf	FC Rotor #3	0.23	19	1.80	78.26
A11	Turf	PC Rotor #30	0.46	36	1.80	39.13
A12	Turf	PC Rotor #6	0.78	33	1.80	23.08
A13	Turf	PC Rotor #6	0.78	33	1.80	23.08
A14	Turf	Popup Spray	1.00	36	1.80	18.00
A14	Turf	Popup Spray	1.00	36	1.80	18.00
A16	Turf	PC Rotor #6	0.78	36	1.80	23.08
A17	Turf	PC Rotor #6	0.78	36	1.80	23.08
A18	Turf	PC Rotor #6	0.78	34	1.80	23.08
A19	Turf	PC Rotor #6	0.78	33	1.80	23.08
A20	Turf	Popup Spray	1.00	34	1.80	18.00
A21	Turf	Popup Spray	1.00	34	1.80	18.00
A22	Turf	Popup Spray	1.00	34	1.80	18.00
A23	Turf	Popup Spray	1.00	34	1.80	18.00
A24	Turf	Popup Spray	1.00	30	1.80	18.00
A25	Turf	Popup Spray	1.00	30	1.80	18.00
A26	Turf	Popup Spray	1.00	39	1.80	18.00
A27	Turf	PC Rotor #6	0.78	28	1.80	23.08
A28	Turf	FC Rotor #6	0.39	17	1.80	46.15
A29	Turf	PC Rotor #6	0.78	28	1.80	23.08
A30	Turf	Popup Spray	1.00	39	1.80	18.00
A31	Turf	Popup Spray	1.00	39	1.80	18.00
A32	Turf	Popup Spray	1.00	39	1.80	18.00
A33	Turf	PC Rotor #3	0.46	25	1.80	39.13
A34	Turf	PC Rotor #3	0.46	25	1.80	39.13
A35	Turf	Popup Spray	1.00	30	1.80	18.00
A36						
A37						
A38						
A39						
A40						
Total projected peak season water use per week (gallons)						114,265
Total peak season hours per week - Controller A*						78.46
*Based upon sequential operation of zones. System has been designed to operate multiple zones simultaneously up to 40GPM.						

CONTROLE "A" CHART

C3

Project Name: Compark Village So. Filing 2						
Project Location: Parker						
Date: 27-Dec-16						
Seasonal Water Use and Peak Flow Projections Prepared By HydroSystems-KDI, Inc.						
Description	Irrigated Acres	Month	Application Rate (in./month)	Monthly water use (gallons)	Maximum Required Flow (GPM)	
Spray Irrigated Bluegrass Sod	0.69	April	6.26	117,311		
		May	7.85	146,999		
		June	10.00	187,352		
		July	10.89	204,069		13.4
		August	9.71	181,875		
annual sub-total		Sept.	7.43	139,217		
		October	5.22	97,711		
		57.35 /yr	1,074,533 /yr	3.30 acrefeet		
Spray Irrigated Native Seed	2.15	April	1.74	101,827		
		May	2.19	127,597		
		June	2.79	162,623		
		July	3.03	177,134		15.9
		August	2.70	157,870		
annual sub-total		Sept.	2.07	120,842		
		October	1.45	84,814		
		15.98 /yr	932,708 /yr	2.86 acrefeet		
Drip Irrigated Shrubs & Perennials	0.01	April	2.26	614		
		May	2.83	769		
		June	3.61	981		
		July	3.93	1,068		0.1
		August	3.51	952		
annual sub-total		Sept.	2.68	729		
		October	1.88	511		
		20.71 /yr	5,624 /yr	0.02 acrefeet		
Site Totals		2.85 irrigated acres		2,012,865 gals/yr		
				6.18 acrefeet/yr		
				Peak Season Average Flow		
		1.5" Tap		29 (GPM)		

WATER USAGE

C4

Irrigation System Hydraulic Worksheet						
Prepared by HydroSystems-KDI, Inc.						
Date: 27-Dec-16						
Static Water Pressure: 107.00						
Hydraulic Grade: At Zone						
Equipment or Material	Quantity (one if not specified)	Nominal Size	Equipment or Pipe Material	Friction Loss Through Pipe per Chart (psi)	Velocity through pipes (ft/sec)	Flow Rate (gpm)
Corp Stop:	1	1 1/2"	Typical Corp. Stop			40
Svc Line (tap to meter):	20 LF	1 1/2"	K Copper	6.63 /100 FT	7.44	40
Curb Stop:	1	1 1/2"	Typical Curb Stop			40
Water Meter:	1.00	1 1/2"	Typical Meter			40
Svc Line (meter to backflow):	20 LF	1 1/2"	K Copper	6.63 /100 FT	7.44	40
Backflow:	1	1 1/2"	Febco 825YA			40
Stop & Waste:	1	1 1/2"	Typical Stop & Waste Valve			40
Master Valve:	1	1 1/2"	Rainbird EFB			40
Flow Sensor:	1	1 1/2"	-FS Description-			40
PRV:	1	1 1/2"	Watts 223HP			40
Gate Valve:	4	2" Typical Bronze Gate Valve				40
Pressure Required at Head:			Pop-Up			30.00
Lateral Allowance:						3.00
Control Valve allowance:			2" Rainbird PEB			40
Mainline allowances:						0.70
1480 LF	2"	CL 200 PVC	0.95 /100 FT	3.53		40
0 LF	Looped	2" CL 200 PVC	0.26 /100 FT	1.77		40
0 LF	2"	CL 200 PVC	0.95 /100 FT	3.53		40
Mainline Fitting allowance:			5% of Mainline allowances			0.70
Elevation:						
Tap Elev.	5831		Control Valve Elev.	5847		6.93
Factor of Safety:			5% System Losses			4.43
Total System requirements (PSI)						92.95
Available pressure (PSI)						107.00
Difference (PSI)						14.05

HYDRAULICS

C5

Project Compark Village So. Filing 2						
Location Parker						
Controller B - Point of Connection # 2 (1 1/2")						
07-Oct-16						
Target Watering Window = six nights per week - seven hours per night (42 hours/week)						
Estimated weekly application = 1.80" (Spray Irrigated Bluegrass Sod)						
Estimated weekly application = 0.68" (Spray Irrigated Native Seed) - Establishment Irrigation Only						
Estimated weekly application = 1.23" (Spray Irrigated Shrubs & Perennials)						
Estimated weekly application = 0.89" (Drip Irrigated Shrubs & Perennials)						
Prepared by HydroSystems-KDI, Inc.						
Zone No.	Plant Type	Zone Description	Precip. Rate in/hr	Zone Flow GPM	Peak Demand In/wk	Zone run time minutes
B1	Turf	PC Rotor #35	0.64	27	1.80	28.13
B2	Turf	PC Rotor #35	0.64	12	1.80	28.13
B3	Tree	Bubbler .25(GPM)	1.00	10	1.23	12.29
B4	Tree	FC Rotor #35	0.64	38	1.80	28.13
B5	Turf	PC Rotor #35	0.64	20	1.80	28.13
B6	Shrub	Drip	1.00	3	0.89	8.88
B7	Native	Hipop Spray 15 ft	1.00	30	0.68	6.85
B8	Native	Hipop Spray 15 ft	1.00	40	0.68	6.85
B9	Native	Hipop Rot/PC #6	0.78	22	0.68	8.78
B10	Tree	Hipop Rot/PC #6	0.78	22	1.23	15.76
B11	Native	Hipop Rot/PC #6	0.78	34		