GENERAL NOTES

- 1) THE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL BE EXPECTED TO MAKE THOSE MODIFICATIONS NECESSARY IN THE FIELD TO REACT TO ACTUAL FIELD CONDITIONS, WITHOUT DEPARTURE FROM THE DESIGN CONCEPTS OR INTENT.
- 2) ALL WORK SHALL CONFORM TO ANY AND ALL APPLICABLE REGULATIONS AND CODES FOR THE LOCATION OF THE WORK. THE INSTALLER SHALL OBTAIN ANY NECESSARY LOCATES, PERMITS AND INSPECTIONS.

3) ALL WORK SHALL BE CLOSELY COORDINATED WITH THAT OF OTHER TRADES. IN

- ORDER TO AVOID CONFLICTS. REFER TO LANDSCAPE AND UTILITIES PLANS WHEN TRENCHING TO AVOID TREES, SHRUBS AND UNDER GROUND UTILITIES
- 4) ALL MATERIAL AND LABOR REQUIRED TO PROVIDE A COMPLETE, OPERATIONAL AND FULLY GUARANTEED SYSTEM SHALL BE CONSIDERED PART OF THE WORK, WHETHER OR NOT THEY ARE SPECIFICALLY INDICATED IN THE DOCUMENTS.
- 5) THE CONTRACTOR SHALL PREPARE AN AS-BUILT DRAWING ON A REPRODUCIBLE PAPER (SEPIA OR MYLAR SHOWING ALL IRRIGATION INSTALLATION, A MYLAR OR SEPIA OF THE ORIGINAL PLAN MAYBE OBTAINED FROM THE LANDSCAPE ARCHITECT FOR A FEE. THE DRAWING SHALL LOCATE ALL MAINLINE AND VALVES BY SHOWING EXACT MEASUREMENTS FROM HARD SURFACES. PLEASE SHOW WIRE DIRECTION
- 6) ALL HEADS SHALL BE OF THE PROPER TYPE FOR THE AREAS WHERE LOCATED, AND SHALL BE INSTALLED PLUMB AND WITH THE PROPER HEIGHT. ALL HEADS AND OTHER EQUIPMENT SHALL BE INSTALLED WITH ADEQUATE AND UNIFORM CLEARANCE FROM ALL HARD-SCAPING, TO MINIMIZE WATER OVER SPRAY ON IMPERVIOUS AREAS.
- 7) THE WATER SUPPLY FOR THIS SYSTEM SHALL BE A PROPOSED 6" MAIN AND 1" METER.
- 8) HIGH VOLTAGE POWER SUPPLY TO THE IRRIGATION CONTROLLER SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE CONTROLLER AND THE LOW VOLTAGE
- 9) ALL CONTROL WIRING SHALL BE INSTALLED UNDER MAINLINE, IF NOT POSSIBLE THEN ELEC, CONDUIT SHALL BE USED FOR WIRE PROTECTION USING PULL BOXES 150! O.C. WIRES SHALL BE TAPED EVERY 20 L.F. WITH ADEQUATE SLACK AND SURGE/ EXPANSION LOOPS AND SHALL BE SPLICED ONLY IN VALVE BOXES, USING SNAP TITE CONNECTORS. THE CONTROL WIRE SHALL BE UF#14 PVC JACKETED, SINGLE CONDUCTOR CABLE, USING RED FOR "HOT" AND WHITE FOR VALVE COMMON. (SEE PLAN FOR SPARE WIRES.)
- ALL PIPING AND WIRE PASSING UNDER PAVED AREAS SHALL BE SLEEVED WITH SCH 40 PVC PIPE, SIZED A MINIMUM OF TWO NOMINAL SIZES LARGER THAN CONTAINED PIPE.
- 11) ANY PIPING SHOWN OUTSIDE THE PROPERTY LINE OR RUNNING OUTSIDE A LANDSCAPE AREA IS SHOWN THERE FOR CLARITY ONLY. ALL LINES SHALL BE INSTALLED ON THE PROPERTY AND INSIDE THE LANDSCAPE AREAS.
- 12) THE INSTALLER SHALL BE EXPECTED TO BE FAMILIAR WITH AND FOLLOW THE INSTRUCTIONS CONTAINED HEREIN, ON THE DRAWINGS, IN THE CONSTRUCTION DETAILS, AND IN THE WRITTEN SPECIFICATIONS, SHOULD A CONFLICT BE DISCOVERED WITHIN THE DOCUMENTS, HE SHALL IMMEDIATELY NOTIFY THE PROJECT MANAGER AND REQUEST
- 13) THE INSTALLER SHALL PROVIDE THE PROPERTY OWNER WITH AN IRRIGATION MAINTENANCE CHECKLIST & SEASONAL WATERING GUIDELINES.
- 14) THE IRRIGATION SYSTEM SHALL BE MAINTAINED AND MANAGED TO ENSURE WATER EFFICIENCY AND PREVENT WASTEFUL PRACTICES. THIS SHALL INCLUDE, BUT NOT LIMITED TO, RESETTING THE AUTOMATIC CONTROLLER ACCORDING TO THE SEASON, FLUSHING THE FILTERS, TESTING THE RAIN SENSOR DEVICES, MONITORING, ADJUSTING & REPAIRING THE IRRIGATION EQUIPMENT SUCH THAT THE EFFICIENCY OF THE SYSTEM IS MAINTAINED.
- (5) IN THE EVENT THAT A WELL IS USED AS THE WATER SOURCE THE IRR. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WATER SAMPLES FROM THE WELL, AT THE IRR. CONTRACTORS EXPENSE, HE SHALL HAVE A CERTIFIED LAB ANALYZE THE WATER QUALITY. THE IRR. CONTRACTOR SHALL REPORT TO THE LANDSCAPE ARCHITECT OR OWNER'S PROJECT MANAGER, ANY POTENTIAL ISSUES THAT MAY AFFECT THE HEALTH OF THE PLANT MATERIAL OR POTENTIAL STAINING TO SIDEWALKS AND BUILDINGS. REPORTING SHALL OCCUR BEFORE THE SYSTEM IS IN OPERATION. FAILURE TO REPORT SHALL PLACE LIABILITY ON THE IRR. CONTRACTOR.

RAIN BIRD 1806-PRS-F.C. (6" POP-UP SPRAY) 19F 19F 30 3.7	Symbol	MFR	DESCRIPTION	Nozzle Type	Radius ft.	PSI	Flow
■ RAIN BIRD			260Mro		15'	30	3.70
NAIN BIRD Installed Using 1"x 12" PVC Flex Pipe. BF				12F	12'		2.60
## RAIN BIRD ## R	•	RAIN BIRD	Installed Liston V" x 12" PVC Flex Pipe.				
RAIN BIRD 1806-PRS-1 (6" POP-UP SPRAY) 12H 12 30 1.48			Indiana contact to the terminal		5'		
RAIN BIRD 1806-PRS-H (6" POP-UP SPRAY) Installed Using "x 12" PVC Flex Pipe. 8H			180AArc		15'	30	1.85
Installed Using "x 12" PVC Flex Pipe. 8H 8' 30 24			,				
SH S S0 20		RAIN BIRD	Installed Using \" x 12" PVC Flex Pipe.				
RAIN BIRD 1306-PRS-Q (6" POP-UP SPRAY) 120, 12 33 .71					5		.20
RAIN BIRD 1806-PIRS-Q (6° POP-LIP SPRAY) 100 10 30 Add A			90^Arc	15Q	15'	30	.93
Installed Using V"x 12" PVC Flex Pipe. 80			,				
Adj^Arc 15VAN 15' 30 Varies 1806-PRS-VAN (6" POP-UP SPRAY) 10VAN 12' 30 Varies 1806-PRS-VAN (6" POP-UP SPRAY) 10VAN 12' 30 Varies 12'	♥	RAIN BIRD	Installed Using \" x 12" PVC Flex Pipe.		8'		.24
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Installed Using \(\text{Y 12' PVC Flex Pipe.} \)		DAMI DIDD	1806-PRS-VAN (6" POP-UP SPRAY)		12		
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NETAFIM PVC SCH. 40 IPS Plastic Pipe supply header to Netafim drip tubing connection. NETAFIM #TLSLOV Shut Off Valve located in a valve box with a gravel sump install per manufacturer written specifications.	© •	MFR RAIN BIRD MATCO HUNTER EXISTING APPROVED	DESCRIPTION PESB Series electric remote-control valve & a lin in a Rain Bird VB-STD-L valve box. (refer to valve Line size brass gate valve installed in Rain Bird CC - 800-PL 8-Station Base Unit Controller with Finstalled per Manufacturer specifications at this a I" Water Meter as specified by the project engine PVC SCH. 40 IPS Plastic Pipe "Mainline". Locat approximate and shall be field located with owner PVC SCH. 40 IPS Plastic Pipe "Lateral line". Locat approximate and shall be field located.	e size PVC ball valve by ID on plan for size). VB-10RND valve box Plastic Cabinet, pproximate location. eer and approved by ion shown on plan is east rep, approval.	City. Refer to	plans by E	ECDLP.
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A INCIACION Install per manufacturer written specifications.	© © 1"	MFR RAIN BIRD MATCO HUNTER EXISTING APPROVED APPROVED	DESCRIPTION PESB Series electric remote-control valve & a lin in a Rain Bird VB-STD-L valve box. (refer to valve Line size brass gate valve installed in Rain Bird CC - 800-PL 8-Station Base Unit Controller wth Pinstalled per Manufacturer specifications at this a I" Water Meter as specified by the project engine PVC SCH. 40 IPS Plastic Pipe "Mainline". Locat approximate and shall be field located with owner PVC SCH. 40 IPS Plastic Pipe "Lateral line". Locat approximate and shall be field located. PVC SCH. 40 IPS Plastic Pipe "Sleeve". Size shof the required inner pipe.	e size PVC ball valve e ID on plan for size). VB-10RND valve box Plastic Cabinet. pproximate location. eer and approved by ion shown on plan is ers rep. approval. cation shown on plan all be twice the dia.	City. Refer to	plans by E	ECDLP.
APPROVED Install one spare control wire from the irrigation controller to the nearest valve box located in this area.	© P	MFR RAIN BIRD MATCO HUNTER EXISTING APPROVED APPROVED APPROVED NETAFIM	DESCRIPTION PESB Series electric remote-control valve & a lin in a Rain Bird VB-STD-L valve box, (refer to valve Line size brass gate valve installed in Rain Bird CC - 800-PL 8-Station Base Unit Controller wth Finstalled per Manufacturer specifications at this a I" Water Meter as specified by the project engine PVC SCH. 40 IPS Plastic Pipe "Mainline". Locat approximate and shall be field located with owner PVC SCH. 40 IPS Plastic Pipe "Lateral line". Locat approximate and shall be field located. PVC SCH. 40 IPS Plastic Pipe "Sleeve". Size shof the required inner pipe. TLCV-9-12 In-line pressure compensating drip to installed in 18" rows per manufacturer written specific processing the process of the supply hearts.	e size PVC ball valve be ID on plan for size). VB-10RND valve box Plastic Cabinet. pproximate location. eer and approved by ion shown on plan is ers rep. approval. cation shown on plan hall be twice the dia. Libing and accessories acifications.	City. Refer to		ECDLP.

Rain Bird VB-JMB-L valve box. For drip zones under 20 gpm install Rain Bird Drip Zone Control Kit # XCZ-100-B-COM per the Manufacturer specifications.

ZONE CHART						
ZONE#	TYPE	GPM				
	SPRAY	50				
2	SPRAY	38				
3	SPRAY	42				
4	SPRAY	32				
5	SPRAY	32				
6	SPRAY	41				
7	SPRAY	37				
8	BUBBLER	38				

The state of the s IRRIGATION SYSTEM DESIGN CRITERIA

WATER SOURCE

WATER MUST BE DELIVERED TO THE SITE AT SUFFICIENT PRESSURE AND FLOW TO PROVIDE MAXIMUM PERFORMANCE AS SHOWN BELOW:

- 60 PSI WORKING PRESSURE AT FIELD LOCATION AND ELEVATION

PRESSURE REQUIREMENT - 30 PSI AT BASE OF SPRINKLER HEAD

FLOW REQUIREMENTS

- 50 GPM MAXIMUM FLOW RATE

DIFFERENCES IN AVAILABLE FLOW AND OR PRESSURE WILL REQUIRE DESIGN CHANGES.

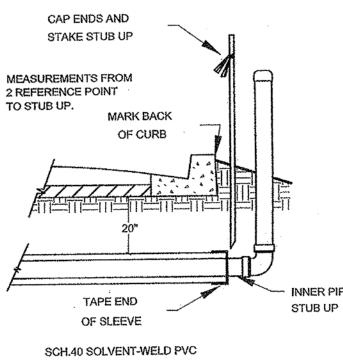
WATER SERVICE LINE, WATER METER, CHECK VALVES, SURGE PROTECTION, ETC.. AND PERFORMANCE OF THE WATER SOURCE ARE NOT A PART OF THESE DRAWINGS.

HEAD LAYOUT

- HEAD LAYOUT AND SPACING IS BASED ON 100% COVERAGE WITH AN EVEN PRECIPITATION RATE. ALL HEADS OF EACH ROW ARE SPACED EQUALLY ACROSS AREA, NOZZLE SELECTION BASED ON MINIMUM AMOUNT OF OVER SPRAY ON HARD-SCAPE. SPRAY ZONES SHRUBS AND TURF SHALL BE SEPARATE AS WELL AS ROTORS...
- HEAD AND LATERAL SPACING WILL VARY WITH DIMENSIONS OF AREA. ADJUSTED SPACING MIGHT BE NECESSARY TO AVOID OVER SPRAY ON ANY HARD-SCAPE. ALL SPRINKLERS AND NOZZLES SHOULD BE SELECTED BASED ON SPRINKLER PERFORMANCE, SPACING, AND ARC OF COVERAGE, AND ACCORDING TO FIELD DIMENSIONS.

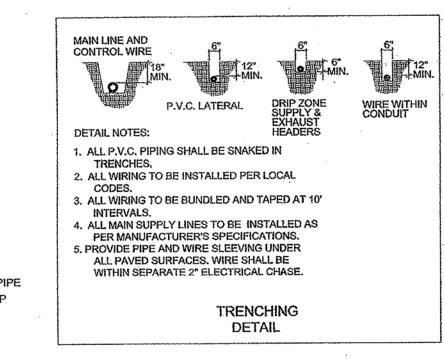
PIPE SIZES

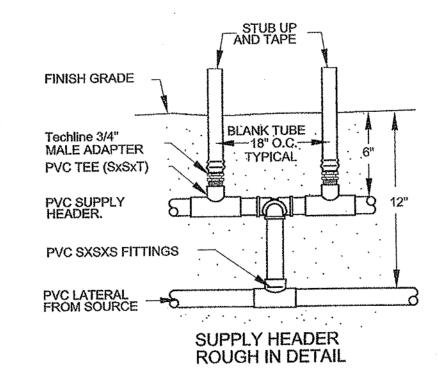
LATERAL PIPES SHALL BE SIZED SO THAT THE WATER VELOCITY DOES NOT EXCEED 5 FT PER SECOND. EXAMPLE: [" 10 GPM, 1" 15 GPM, 1]" 26 GPM, 1/" 36 GPM, 2" 50 GPM, 2\" 80 GPM, 3" 120 GPM, 4" 200 GPM.

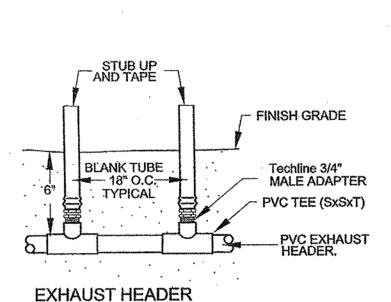


(REQUIREMENTS VARY - CHECK CODES FIRST)

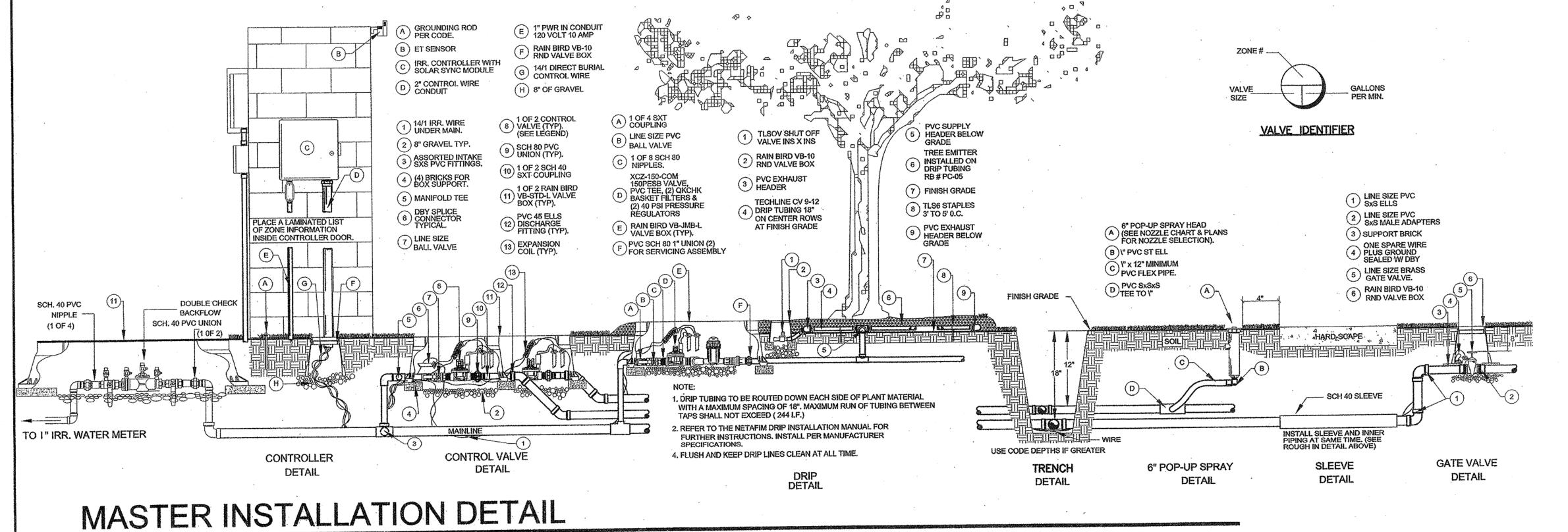
ROUGH IN SLEEVING DETAIL







ROUGH IN DETAIL

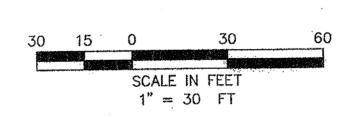


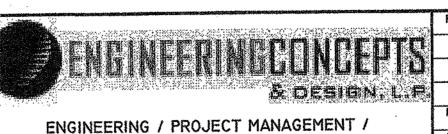
RECORD DRAWINGS

THESE RECORD DRAWINGS HAVE BEEN PREPARE BASED ON INFORMATION PROVIDED BY OTHERS. OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY DISCREPANCIES WHICH MAY

TODD WINTTERS, P.E.

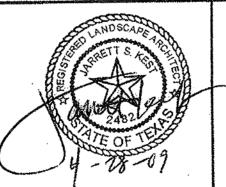
ORCHID DESIGN GROUP andscape Architecture 5400 Bayou Grande Blvd N St. Petersburg, Florida 3370 Telephone: 727-773-7907 Facsimile: 727-527-3819 Candscape Architect of Record: TX License# 2482





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* & DESIGN, L.F.			
ENGINEERING / PROJECT MANAGEMENT /	DRAWN: JK	DATE: 05-05-09	
CONSTRUCTION SERVICES	CHECKED: JK	DATE: 05-05-09	
2801 CAPITAL, WYLIE, TX 75098	PROJECT NO.: 9016		
972-941-8400 FAX: 972-941-8401 WWW.ECDLP.COM	DWG FILE NAME: Irrigation Plan.dwg		
		e.	

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF CONSTRUCTION THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JARRETT S. KEST, RLA REGISTRATION # 2482



IRRIGATION DETAILS LOTS 4&5 BLK A, (PROP LOT 4R) PRESBYTERIAN HOSPITAL ADDN.

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS