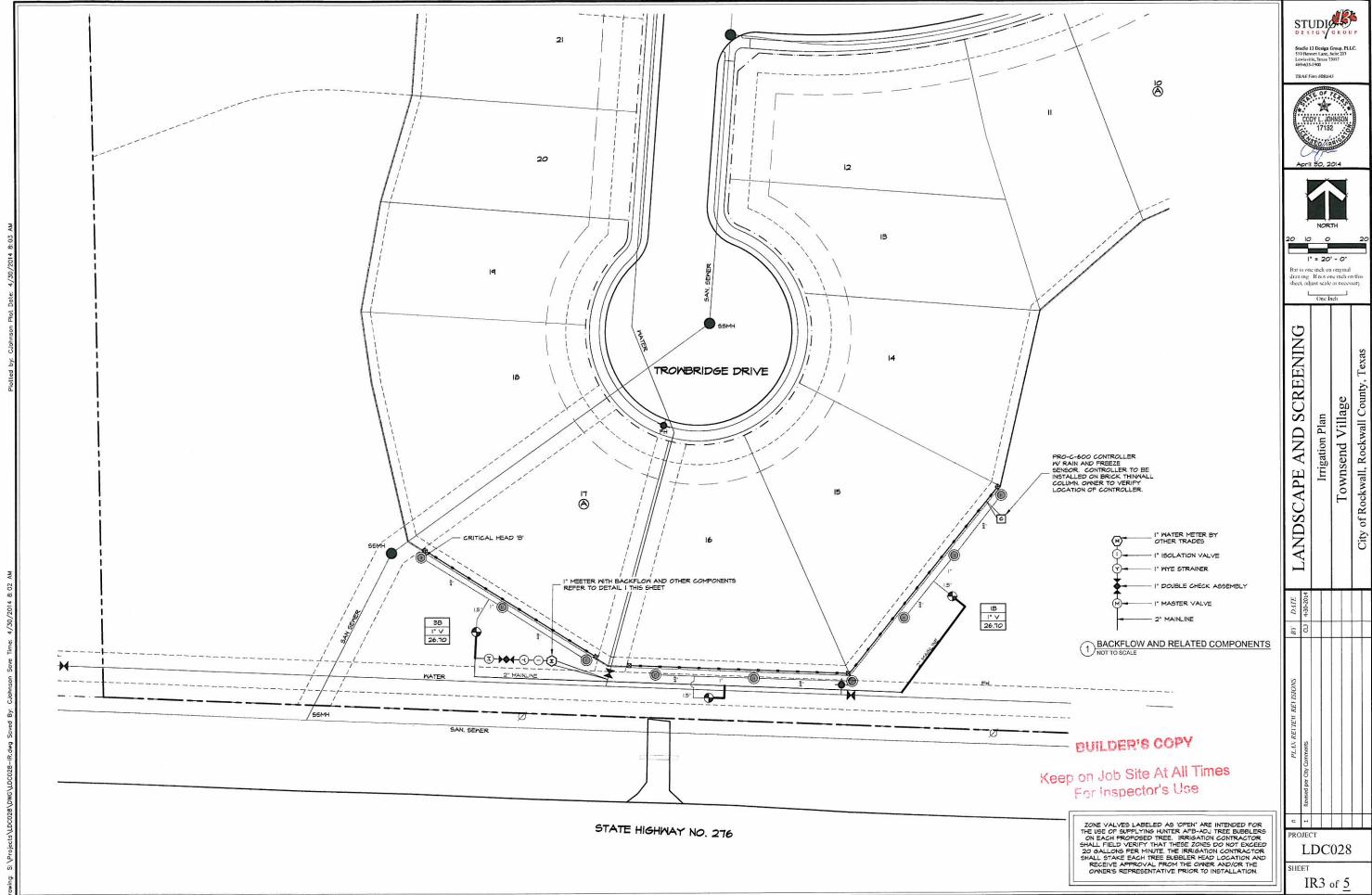


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SYM	DESCRIPTION	MANUFACTURER	MODEL	SIZE / NOZZLE	NOTES
c	AUTOMATIC CONTROLLER	HUNTER	Refer to Plan for Sizes	N/A	INSTALL PER MANUFACTURER'S STANDARDS, IN ADDITION, INSTALL SOLAR-SYNC SYSTEM BY HANTER.
0	DRIP IRRIGATION CONTROL VALVE	HUNTER	ICZ-IOI	i.	INSTALL PER DETAIL IN IO' ROUND BOX W/ BOLT DOWN LID. ROUT AND PAINT VALVE NUMBER ON LID.
	DRIP IRRIGATION	HINTER	PLD-06-16	N/A	INSTALL PER DETAIL W/ 40 PSI AT OUTFLOW OF DRIP ZONE VALVE.
0	DRIP IRRIGATION	HUNTER	AFB-ADJ BUBBLER	1/2*	INSTALL PER DETAIL N/ 40 PSI AT BASE OF HEAD, INSTALL ON ALL PROPOSED TREES, SEE LANDSCAPE PLANS,
•	REMOTE CONTROL VALVE	HINTER	ICY-1016	Refer to Plan for Size	INSTALL PER DETAIL IN IO' ROUND PENTEK VALVE BOX WITH BOLT DOWN LID. ROUT AND PAINT VALVE NUMBER ON LID.
000	D (1) LANN ROTATOR	HUNTER	MP ROTATOR	MP1000, MP2000, MP3000	INSTALL PER DETAIL N/ 40 PSI AT BASE OF HEAD. INSTALL LASCO P-120T SWING JOINTS ON ALL SPRAY BODIES. INSTALL NOZZLES ON 4" PRS40 OR 12" PROS-12 SPRAY BODIES.
(1)	ROTOR HEAD	HUNTER	PSP SERIES	#4, #6, #II NOZZLE	INSTALL PER DETAIL M/ 40 PSI AT BASE OF HEAD. INSTALL LASCO P-1201 SWING JOINTS ON ALL ROTORS.
₩	WATER METER		PER CITY	Refer to Plan for Size	INSTALLED BY GENERAL CONTRACTOR
144	DOUBLE CHECK VALVE	Febco	950-BV Series	Refer to Plan for Size	FURNISH AND INSTALL PER LOCAL CODE BY LICENSED IRRIGATION CONTRACTOR.
①	ISOLATION VALVE	Nibco	*T-IIS	Line Size	INSTALL PER DETAIL IN 12'x17" PENTEK VALVE BOX WITH BOLT DOWN LID.
9	MYE STRAINER	Febço	*850	Refer to Plan for Size	INSTALL PER DETAIL IN 12*x17* PENTEK VALVE BOX WITH BOLT DOWN LID.
M	MASTER VALVE	Hunter	ICV-1016 ICV-1516	Refer to Plan for Size	INSTALL PER DETAIL IN 12*x17" PENTEK VALVE BOX MITH BOLT DOWN LID.
	IRRIGATION SLEEVE		SCH, 40 W/ 12 6A, PULL WIRE IN SLEEVE	Refer to Plan for Size	DRIVEMAY SLEEVES INSTALLED BY GENERAL CONTRACTOR. SIDEMALK SLEEVES INSTALLED BY IRRIGATION CONTRACTOR.
	IRRIGATION MAIN LINE		SCH. 40	Refer to Plan for Size	IB" INSTALLATION DEPTH.
	IRRIGATION LATERAL LINE		GLA55 200	Refer to Plan for Size	12" INSTALLATION DEPTH STANDARD. 16" INSTALLATION DEPTH UNDER PAVING.

PROGRAM AND STATION NUMBER FOR AUTOMATIC CONTROLLER

- VALVE SIZE IN INCHES

- GALLONG PER MINUTE, PER VALVE

IRRIGATION NOTES

PROVIDE A COMPLETE, FUNCTIONING AUTOMATIC IRRIGATION SYSTEM INCLUDING LABOR, MATERIALS, FEES, TAXES, EQUIPMENT, AND OTHER COSTS INCIDENTAL TO ACCOMPLISHING

ACQUIRE WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT OR LICENSED IRRIGATOR FOR MATERIAL SUBSTITUTES PRIOR TO BEGINNING INSTALLATION.

IRRIGATOR FOR MATERIAL SUBSTITUTES PRIOR TO BEGINNING INSTALLATION.
FORTY EIGHT (48) HOURS BEFORE IRRIGATION CONSTRUCTION BEGINS, IRRIGATION
CONTRACTOR MUST CALL (800) DES-TESS AND IS RESPONSIBLE FOR LOCATING EXISTING
UNDERSROUND UTILITIES AND/OR OBSTACLES PRIOR TO BEGINNING WORK, ANY DAMAGE
TO UTILITIES AND/OR FINISHES FROM INFERIOR WORKHANSHIP BY THE IRRIGATION
CONTRACTOR SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
PIFING IS DIAGRAMMATIC AND SHOWN FOR CLARITY ONLY. ADJUST AS REQUIRED FOR
EXISTING UTILITIES, OBSTRUCTIONS, TREE ROOT BALLS, ETC. PIPING AND VALVES SHOWN
IN PAVING FOR CLARITY ONLY AND SHALL BE INSTALLED IN ADJACENT LANDSCAPE
ARFA.

IN PAYING FOR CLASHIE SIZE OF THE STATE OF THE STATE OF THE SECOND PARENTS WITH GENERAL CONTRACTOR.

5. COORDINATE SLEEVE SHALL BE AS FOLLOWS:

5.1. SLEEVES INTENDED FOR LATERAL LINES ARE TO BE ONE-FOUR INCH SLEEVE AND ARE TO BE NO MORE THAN A DEPTH OF TWO FEET BELOW TOP OF CURB. SLEEVES SHOULD EXTEND A MINIMUM OF 2-0° BEYOND BACK OF CURB.

5.2. SLEEVES INTENDED FOR THE 2° MAINLINE ARE TO BE TWO-FOUR INCH SLEEVES SIDE BY SIDE AND ARE TO BE NO MORE THAN A DEPTH OF TWO FEET BELOW TOP OF CURB. SLEEVES SHOULD EXTEND A MINIMUM OF 2'-0" BEYOND BACK OF CURB.

6. LOCATE EACH END OF IRRIGATION SLEEVES DIMENSIONALLY ON THE RECORD "AS BUILT" DRAWINGS.

DRAMINGS.
THE IRRIGATION CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE IRRIGATION STSTEM WITH THE LANDSCAPE CONTRACTOR TO ENSURE ALL PLANT MATERIAL WILL BE WATERED IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS.
THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO PLANT MATERIAL DUE TO SYSTEM FALLURE FROM INTERIOR WORKMANSHIP FOR THE DURATION OF THE INSTALLATION OF PLANT MATERIAL AND MAINTENANCE PERIOD FOLLOWING NEXTALL ATION

INSTALLATION.
THE IRRIGATION CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL NECESSARY
TO HAND DIG MITHIN ALL EXISTING TREE DRIPLINE ZONES AT NO ADDITIONAL COST TO
THE OWNER. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE TO STAKE AND
PECSEIVE APPROVAL FROM ALL DISCIPLINES PRIOR TO AN TRENCHING AND HAND
DIGGING IN AREAS OF EXISTING TREE COVERAGE OR ANY ADDITIONAL AREAS THAT

DISSING IN ANEAS OF EXISTING TREE COVERAGE OR ART ADDITIONAL AREAS THAT MIGHT BE QUESTIONABLE.

10. EXTEND ONE EXTRA CONTROL WIRE TO FARTHEST VALVE, ROUTED PARALLEL TO COMMON GROUND WIRE HITH INSTALLATION OF LEAD AND COMMON WIRES.

11. CONTROL WIRE SHALL BE DIRECT BURIAL, 24 VOLT, SINGLE CONDUCTOR, SOLID COPPER, PLASTIC INSULATED CASELE, RATED FOR DIRECT BURIAL APPLICATIONS, UF, UL., APPROVED, 14 GAUGE MINIMUM LEAD AND COMMON GROUND RETURN WIRE UNLESS NOTED OTHERWISE ON PLANS. COLOR OF INSULATION AS FOLLOWS:

OTHERMISE ON PLANS. COLOR OF INSULATION AS FOLLOWS:

III. LEAD WIRE: ANY COLOR (SAME COLOR), EXCEPT WHITE OR ORANGE

III. LEAD WIRE: ANY COLOR (SAME COLOR), EXCEPT WHITE OR ORANGE

III. COMMON GROUND WIRE: WHITE (COLOR)

III. SETTRA CONTROL WIRE: ORANGE (COLOR)

III. WIRE SPILICES SHALL BE KING ONE-STEP #1 (TAN) OR 8M-DBY PERMANENT AND

WATERPROOF. INSTALL ALL WIRE SPILICES IN 10° ROUND PENTEK VALVE BOXES.

III. THE OWNER AND/OR LANDSCAPE ARCHITECT SHALL DETERMINE THE FINAL CONTROLLER

LOCATION. THE IRRIGATION CONTRACTOR SHALL MAKE FINAL ELECTRICAL CONNECTION

OF CONTROLLER PER LOCAL ELECTRICAL CODE. PROVIDE ALL NECESSARY FUSE

BOXES, CONDUIT, FITTINGS, CONNECTORS OR OTHER ELECTRICAL DEVICES TO MAKE

CONNECTION. OWNER SHALL PROVIDE ELECTRICAL SERVICE WITHIN 10 LINEAR FEET OF

CONNECTION. OWNER SHALL PROVIDE ELECTRICAL SERVICE WITHIN 10 LINEAR FEET OF

CONNECTION OR REMOTE CONTROL VALVES.

IS. ALL P.V.C. MAINLINES AND LATERAL LINES SHALL RECEIVE AS FOLLOWS:

IS. ALL P.V.C. MAINLINES AND LATERAL LINES SHALL RECEIVE AS FOLLOWS:

IS. 11. "MINIMM COVER FOR MAIN LINES"

IS. 11. "MINIMM COVER FOR PIPINS LOCATED UNDER PAVING

IS. 31. "MINIMM COVER FOR PIPINS LOCATED UNDER PAVING

IS. 31. "MINIMM COVER FOR PIPINS LOCATED UNDER PAVING

IS. 31. "MINIMM DISTANCE BETWEEN THE MAINLINE AND LATERAL LINE FITTINSS (EXCEPT FOR

19.3. 10" MINIMUM COVER FOR LATERAL LINES
19.3. 10" MINIMUM COVER FOR LATERAL LINES
19.3. 11" MINIMUM COVER FOR LATERAL LINES
19.4. THE MINIMUM DISTANCE BETWEEN THE MAINLINE AND LATERAL LINE FITTINGS (EXCEPT FOR REDUCER BUSHINGS) SHALL BE 10".
10. THE MINIMUM HORIZONTAL DISTANCE OF 86" SHALL BE MAINTAINED BETWEEN ANY VALVES THAT ARE INSTALLED SIDE BY SIDE.
10. PHERE SERVICE TREES ARE INSTALLED ON THE MAINLINE FOR INSTALLATION OF THE ELECTRIC VALVES AND/OR QUICK COUPLING VALVES, THE CONTRACTOR SHALL LIMIT THE NUMBER OF THESE PER SERVICE TEE. DO NOT INSTALL MORE THAN A TOTAL OF EITHER THREE ELECTRIC VALVES OR A COMBINATION OF TWO ELECTRIC VALVES AND ONE QUICK COUPLER VALVE AT EACH TEE. THE MINIMUM DISTANCE BETWEEN HITTINGS SHALL BE 10" AS REFERENCED IN THE ABOVE NOTES.
19. ALL PVC PIPE AND FITTINGS ARE TO BE PRIMED WITH PURPLE PVC PRIMER SOLVENT BEFORE APPLYING PVC CEMENT IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE.
20. INSTALL QUICK COUPLING VALVES IN 12"17" PENTER VALVE BOXED PER DETAIL SHOWN, #T122-22. SUPPLY OWNER WITH THREE COUPLER KEYS WITH SMIVEL HOSE BIBB EACH, #33DK-10 AND #SH-0 RESPECTIVELY. VALVES TO BE INSTALLED SO THAT THE TOP OF THE QUICK COUPLER IS 2" BELOW BOTTOM OF VALVE BOX 10". IN SALLED SO THAT THE TOP OF THE GUICK COUPLER IS 2" BELOW BOTTOM OF VALVE BOX 10.10" IN SMILLED SO THAT THE TOP OF THE QUICK COUPLER IS 2" BELOW BOTTOM OF VALVE BOX 10.10" IN SMILLED. BOX LID. PURPLE LID SHALL READ "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH

21. ALL LATERAL LINES SHALL BE 3/4" CLASS 200 PVC UNLESS OTHERWISE NOTED ON

PLANS.

22. ZONE VALVES LABELED AS 'OPEN' ARE INTENDED FOR THE USE OF SUPPLYING HUNTER AFB-ADJ TREE BUBBLERS ON EACH PROPOSED TREE. IRRIGATION CONTRACTOR SHALL FIELD VERIFY THAT THESE ZONES DO NOT EXCEED 20 GALLONS PER MINITE: THE IRRIGATION CONTRACTOR SHALL STAKE EACH TREE BUBBLER HEAD LOCATION AND RECEIVE APPROVAL FROM THE OWNER AND/OR THE OWNER'S REPRESENTATIVE PRIOR TO INSTAIL ATION.

INSTALLATION.

23. ALL STATE OF TEXAS LAWS/RULES AND ALL LOCAL CODES/ORDINANCES AREA MADE PART OF THESE PLANS AND SPECIFICATIONS WHETHER SHOWN OR NOT. THESE LAWS AND ORDINANCES WILL SUPERCEDE THE PLANS, DETAILS, AND/OR SPECIFICATIONS FOR THIS PROJECT. THE IRRIGATION CONTRACTOR IS CAUTIONED THAT HE/SHE IS TO INCLUDE ANY AND ALL COST NECESSARY TO MEET OR EXCEED THE LAWS OF THE STATE OF TEXAS AND LOCAL CODES CONCERNING LANDSCAPE IRRIGATION.

HYDRAULIC CALCULATION NOTES:

TEN DAYS PRIOR TO COMMENCING WORK, VERIFY STATIC PRESSURE. IF STATIC PRESSURE IS LESS THAN THE ASSUMED STATIC PRESSURE DO NOT START WORK UNTIL NOTIFIED IN MRITINS TO PROCEED BY OWNER, IF CONTRACTOR PROCEEDS WITH MORK WITHOUT AUTHORIZATION FROM OWNER, THE CONTRACTOR SHALL BE FINANCIALLY RESPONSIBLE TO CORRECT, MODIFY OR REPAIR ANY ITEMS OR MATERIALS THAT MAY BE REQUIRED TO PROVIDE A FULLY PINATIONING AND OPERATIONAL IRRIGATION SYSTEM IN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS. HYDRAULIC CALCULATIONS FOR THIS SYSTEM ARE BASED ON THE STATIC PRESSURE AS STATED ABOVE. THE STATIC PRESSURE SHOWN IS AN ASSUMED PRESSURE, A PRESSURE MEASURED AT THE SITE, OR AN ESTIMATED PRESSURE PROVIDED BY THE COUNTY OR CITY. THE OWNER WIDERSTANDS THIS PROJECT MAY NOT PROVIDE IOOM COVERAGE AT ALL TIMES.

HYDRAULIC CALCULATIONS FROM METER A

ITEM	SIZE	PSI	NOTES	
MAXIMIM. GPM ESTIMATED - BT.5 GPM			FITTING LOSS ACCOUNTED BY ADDING IOS TO FLOW SHOWN IN MANUF, NOZZLE CHART.	
SERVICE	J*	5.94	TYPE "K" COPPER 20 LN. FT. (29.97 6PM)	
MATER METER	I*	5.50	(24,41 GPM)	
BALL VALVE	l*	1.00	(29,97 6PM)	
MYE FILTER	I*	0,30	(29.97 6PM)	
BACKFLOW PREVENTER	P	4.00	(24,97 6PM)	
MASTER VALVE	1.5*	150	(29.97 6PM)	
MAIN LINE	2*	5.68	800 LN, FT. (29,97 GPM)	
STATION VALVE	15'	1,50	(29.97 6PM)	
ZONE #3A	15"	2.57	(29.97 6PM)	
CRITICAL HEAD 'A'	-	40.00		
TOTAL LOSS		67.04		
ASSUMED STATIC PRESSURE		75.00		
PRESSURE DIFFERENTIAL		-7.96		

HYDRAULIC CALCULATION NOTES:

TEN DAYS PRIOR TO COMMENCING WORK, VERIFY STATIC PRESSURE. IF STATIC TEN DAY'S PRIOR TO COMMENCING WORK, VERIFY STATIC PRESSURE. IF STATIC PRESSURE IS LESS THAN THE ASSUMED STATIC PRESSURE DO NOT STATE WORK UNTIL NOTIFIED IN WRITING TO PROCEED BY OWNER. IF CONTRACTOR PROCEEDS WITH WORK MITHOUT AUTHORIZATION FROM OWNER, THE CONTRACTOR SHALL BE FINANCIALLY RESPONSIBLE TO CORRECT, MODIFY OR REPAIR ANY ITEMS OR MATERIALS THAT MAY BE REQUIRED TO PROVIDE A FULLY FINCTIONING AND REPAIR AND LAND TO THE CONTRACTOR OF OPERATIONAL IRRIGATION SYSTEM IN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS HYDRAULIC CALCULATIONS FOR THIS SYSTEM ARE BASED ON THE STATIC PRESSURE AS STATED ABOVE. THE STATIC PRESSURE SHOWN IS AN ASSUMED PRESSURE, A PRESSURE MEASURED AT THE SITE, OR AN ESTIMATED PRESSURE PROVIDED BY THE COUNTY OR CITY. THE OWNER UNDERSTANDS THIS PROJECT MAY NOT PROVIDE 100% COVERAGE AT ALL TIMES.

HYDRAULIC CALCULATIONS FROM METER B

ITEM	SIZE	PSI	NOTES	
MAXIMUM, GPM ESTIMATED - 37.5 GPM			FITTING LOSS ACCOUNTED BY ADDING 10% TO FLOW SHOWN IN MANUF, NOZZLE CHART.	
SERVICE	l"	4.75	TYPE "K" COPPER 20 LN. FT. (26.70 6PM)	
HATER METER	l"	4.60	(26.70 GPM)	
BALL VALVE	I"	1.00	(26.70 6PM)	
MYE FILTER	l*	0,50	(26.70 SPM)	
BACKFLOW PREVENTER	14	4.00	(26.70 6PM)	
MASTER VALVE	1*	3.00	(26.70 SPM)	
MAIN LINE	2*	1,55	250 LN, FT. (26.70 6PM)	
STATION VALVE	l'	3.00	(26.70 GPM)	
ZONE #IB	1,5"	1.76	(26.70 6PM)	
CRITICAL HEAD 'A'		40.00		
TOTAL LOSS		63,96		
ASSUMED STATIC PRESSURE	483.50% S	75.00		
PRESSURE DIFFERENTIAL	9	-11,04		

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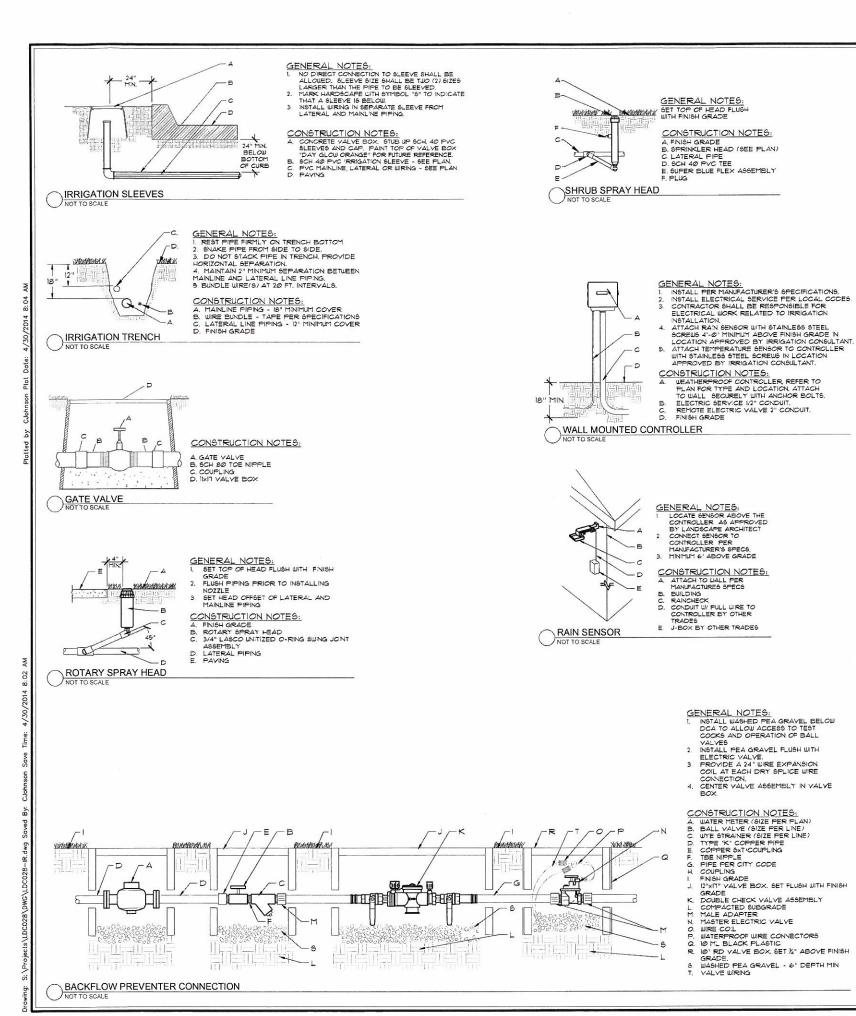
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Rockwall County, Texas SCREEN Village AND **Fownsend** CAPE ANDS City

> ROJECT LDC028

> > IR4 of 5

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CODY L. JOHNSO 17132 SCREENING of Rockwall, Rockwall County, Townsend Village Irrigation Details AND LANDSCAPE City PROJECT LDC028 SHEET IR5 of 5

STUDIO

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