MLK PARK IMPROVEMENTS

IRRIGATION AND RESTROOM BUILDING

PREPARED FOR: SPRINGFIELD, TENNESSEE



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CITY OF SRINGFIELD **401 NORTH MAIN STREET** SPRINGFIELD, TENNESSEE 37172 (615) 382-1655

C0.00 **COVER SHEET IRRIGATION PLAN**

L2.10 IRRIGATION NOTES/SCHEDULE L2.11

SHEET INDEX

IRRIGATION DETAILS

DESIGNER

LOSE & ASSOCIATES, INC

LANDSCAPE ARCHITECTURE/ARCHITECTURE/CIVIL ENGINEERING/PLANNING

> 1314 5TH AVENUE NORTH, SUITE 200 NASHVILLE, TENNESSEE 37208 PHONE: 615-242-0040 CONTACT: LEE DAVIDSON

LOCATION MAP



UTILITIES

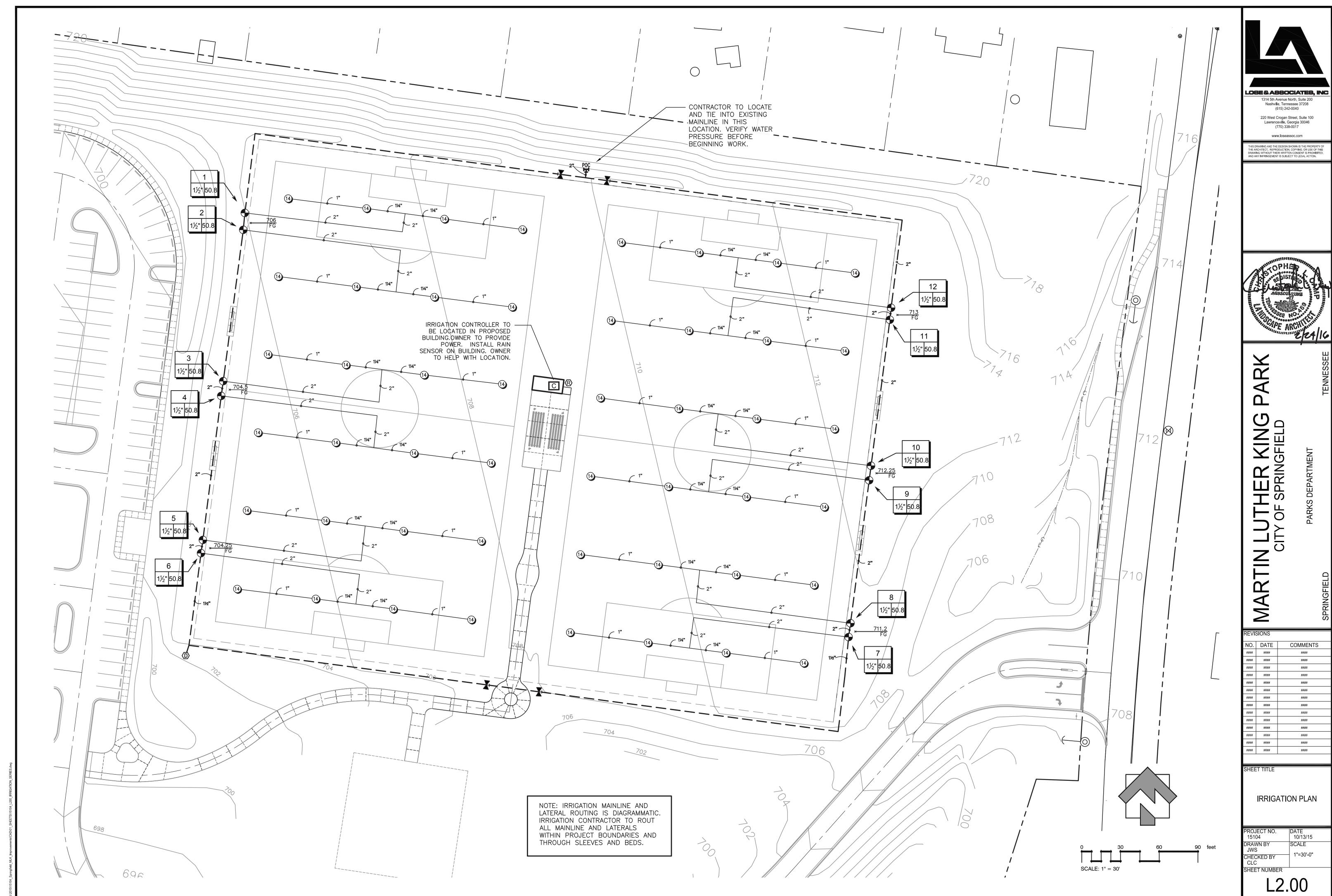
SPRINGFIELD WATER & WASTE WATER DEPARTMENT 924 CENTRAL AVENUE WEST SPRINGFIELD, TENNESSEE 37172 (615) 384-1600

> SPRINGFIELD ELECTRIC DEPARTMENT 1000 CENTRAL AVENUE SPRINGFIELD, TENNESSEE 37172 (615) 384-6770

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COVER SHEET

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/N BY	SCALE						
ECT NO. 14	DATE 2/24/16						





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<u>IUMBER</u>	MODEL	<u>TYPE</u>	PRECIP	<u>SUN</u>	MON	TUE	<u>WED</u>	<u>THU</u>	<u>FRI</u>	SAT	IN./WEEK	MIN./WEEK	GAL./WEEK	GAL./DAY
1	RAIN BIRD PEB	TURF ROTOR	0.33 in/h		77 min		77 min		77 min		1.25	229	11,633	3,878
2	RAIN BIRD PEB	TURF ROTOR	0.33 in/h		77 min		77 min		77 min		1.25	229	11,633	3,878
3	RAIN BIRD PEB	TURF ROTOR	0.34 in/h		73 min		73 min		73 min		1.25	218	11,074	3,691
4	RAIN BIRD PEB	TURF ROTOR	0.35 in/h		73 min		73 min		73 min		1.25	218	11,074	3,691
5	RAIN BIRD PEB	TURF ROTOR	0.33 in/h		77 min		77 min		77 min		1.25	230	11,684	3,895
6	RAIN BIRD PEB	TURF ROTOR	0.33 in/h		77 min		77 min		77 min		1.25	230	11,684	3,895
7	RAIN BIRD PEB	TURF ROTOR	0.33 in/h		76 min		76 min		76 min		1.25	228	11,582	3,861
8	RAIN BIRD PEB	TURF ROTOR	0.33 in/h		77 min		77 min		77 min		1.25	230	11,684	3,895
9	RAIN BIRD PEB	TURF ROTOR	0.35 in/h		73 min		73 min		73 min		1.25	217	11,024	3,675
10	RAIN BIRD PEB	TURF ROTOR	0.35 in/h		73 min		73 min		73 min		1.25	217	11,024	3,675
11	RAIN BIRD PEB	TURF ROTOR	0.33 in/h		77 min		77 min		77 min		1.25	229	11,633	3,878
12	RAIN BIRD PEB	TURF ROTOR TOTALS:	0.33 in/h		76 min 906		76 min 906		76 min 906		1.25	228 2,703	11,582 137,312	3,861 45,771

VALVE SCHEDULE

<u>NUMBER</u>	<u>MODEL</u>	SIZE	<u>TYPE</u>	<u>WIRE</u>	<u>PSI</u>	PSI @ POC	<u>GPM</u>	<u>PRECIP</u>
1	RAIN BIRD PEB	1-1/2"	TURF ROTOR	483.7	58.06	65.26	50.80	0.33 in/h
2	RAIN BIRD PEB	1-1/2"	TURF ROTOR	496.8	58.36	65.65	50.80	0.33 in/h
3	RAIN BIRD PEB	1-1/2"	TURF ROTOR	615.1	58.33	65.57	50.80	0.34 in/h
4	RAIN BIRD PEB	1-1/2"	TURF ROTOR	626.7	58.27	65.55	50.80	0.35 in/h
5	RAIN BIRD PEB	1-1/2"	TURF ROTOR	739.2	58.30	65.73	50.80	0.33 in/h
6	RAIN BIRD PEB	1-1/2"	TURF ROTOR	749.6	58.24	65.68	50.80	0.33 in/h
7	RAIN BIRD PEB	1-1/2"	TURF ROTOR	756.0	58.22	68.96	50.80	0.33 in/h
8	RAIN BIRD PEB	1-1/2"	TURF ROTOR	745.2	58.24	68.83	50.80	0.33 in/h
9	RAIN BIRD PEB	1-1/2"	TURF ROTOR	633.4	58.30	67.90	50.80	0.35 in/h
10	RAIN BIRD PEB	1-1/2"	TURF ROTOR	622.1	58.29	67.74	50.80	0.35 in/h
11	RAIN BIRD PEB	1-1/2"	TURF ROTOR	508.0	58.30	66.82	50.80	0.33 in/h
12	RAIN BIRD PEB	1-1/2"	TURF ROTOR	498.6	58.18	66.61	50.80	0.33 in/h
	Common Wire			1,828				

1. IF IRRIGATION SLEEVING IS NECESSARY IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR CONTRACTOR SHALL VERIFY ANY EXISTING SLEEVE LOCATIONS AND COORDINATE NEW SLEEVES WITH OWNER. WHERE PAVEMENT EXISTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR BORING BENEATH THE PAVEMENT TO INSTALL THE SPECIFIED SLEEVE.

2. IRRIGATION CONTROLLER SHALL BE LOCATED AS SHOWN ON THE IRRIGATION PLAN. SPECIFIC MOUNTING LOCATION OF CONTROLLER TO BE APPROVED BY OWNER AND LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND SUPPLY OF ELECTRICAL POWER TO THE CONTROLLER AND PROPER GROUNDING PER THE IRRIGATION CONTROLLER MANUFACTURER'S RECOMMENDATIONS.

3. ALL ELECTRICAL SERVICE SHALL BE INSTALLED AS PER LOCAL CODES

4. THE CONTRACTOR SHALL SUBMIT A CONTROLLER RUNTIME SCHEDULE (IN COMPLIANCE WITH SCHEDULE PROVIDED) TO LANDSCAPE ARCHITECT FOR APPROVAL ONCE IRRIGATION SYSTEM HAS BEEN COMPLETED. LANDSCAPE ARCHITECT SHALL VERIFY SCHEDULE AND INSTALLATION PROCEDURES PRIOR TO FINALIZATION OF INSTALLATION.

POINT OF CONNECTION FOR IRRIGATION CONTRACTOR IS SHOWN ON THE PLANS.

LATERAL LINES ARE CLASS 200 PVC PIPE. SEE PLAN FOR SIZES. MAIN SERVICE LINES ARE CLASS 200 PVC PIPE. SEE PLAN FOR SIZES

8. ALL PLAIN PVC JOINT CONNECTIONS SHALL BE CLEANED WITH PVC CLEANER AND CONNECTED WITH PVC SOLVENT WELD. DO NOT USE SOLVENT WELD OR PIPE DOPE ON THREADED CONNECTIONS, USE TEFLON TAPE ONLY TO SEAL THE CONNECTIONS.

9. ALL ZONE WIRES SHALL BE DIRECT BURIAL, UL APPROVED UP TO 600 VOLTS, SINGLE CONDUCTOR OR SOLID COPPER WIRE WITH PVC INSULATION. A. #16 WIRE FOR POWER SIDE.

B. #14 WIRE FOR COMMON SIDE. 10. LARGE RECTANGULAR VALVE BOXES MAY BE USED IN SITUATIONS WHERE MORE SERVICE AREA MAY BE NECESSARY, OR VALVES ARE MANIFOLDED. IRRIGATION VALVES SHOULD BE CLUSTERED WHERE APPLICABLE AND SHOULD BE INSTALLED FOR EASY LOCATION AND MAINTENANCE WITH GREEN COVERS. THE TOP OF ALL VALVE BOXES SHALL BE FLUSH WITH FINISH GRADE.

11. PROVIDE A MINIMUM OF 18" OF COVER OVER LATERAL PIPING. PROVIDE A MINIMUM OF 24" OF COVER OVER MAINLINE PIPING. PROVIDE A MINIMUM DEPTH OF 36" OF COVER OVER MAINLINE PIPING OVER 3"Ø IN

12. USE SWING JOINTS WHERE NECESSARY ON ROTOR HEADS. SEE DETAILS

13. CONTRACTOR SHALL INSTALL RAIN SENSOR IN LOCATION SHOWN ON PLANS. VERIFY LOCATION WITH OWNER AND LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. CONTRACTOR SHALL VERIFY THE IN FIELD LOCATION OF THE RAIN CHECK AND COORDINATE WITH LANDSCAPE ARCHITECT FOR FINAL APPROVAL OF LOCATION. MATERIALS FOR WIRING OR WIRE CONDUIT SHOULD NOT BE VISIBLE. IF THIS IS NOT POSSIBLE, THE MATERIALS SHALL MATCH THE ATTACHING APPURTENANCE.

14. THE CONTRACTOR SHALL FLUSH ALL IRRIGATION LINES PRIOR TO IRRIGATION SYSTEM COMPLETION. ALL SPRAY AND ROTOR HEADS SHOULD BE FREE OF DEBRIS WITH FULL SPRAY COVERAGE.

15. THE CONTRACTOR IS RESPONSIBLE FOR WINTERIZING THE SYSTEM THE FIRST YEAR OF INSTALLATION. DURING THE WINTER OF THE SYSTEM, THE CONTRACTOR WILL SHOW THE OWNER'S DESIGNATED REPRESENTATIVE THE PROPER PROCEDURES FOR WINTERIZING THE SYSTEM. THE CONTRACTOR IS ALSO RESPONSIBLE FOR RESTARTING THE SYSTEM IN THE SPRING OF THE FOLLOWING YEAR.

16. THE OWNER'S REPRESENTATIVE IS TO VERIFY PROPER ADJUSTMENT OF THE SYSTEM BEFORE FINAL PAYMENT. CONTRACTOR SHOULD NOTIFY LANDSCAPE ARCHITECT FOR A FULL SYSTEM CHECK PRIOR TO COMPLETION. 17. IRRIGATION MAIN LINE AND LATERAL ROUTING IS SHOWN DIAGRAMMATIC IN NATURE TO CLEARLY SHOW THE

INTENT OF IRRIGATION ZONE AND HEAD CONNECTIONS. CONTRACTOR SHALL ROUTE MAIN LINE AND LATERALS THROUGH SLEEVES AND BEDS USING COMMON TRENCHES WHERE APPLICABLE. CONTRACTOR MAY COORDINATE TO INSTALL IRRIGATION PIPING BEFORE TOPSOIL IS PLACED.

18. MAXIMUM ALLOWABLE PRESSURE LOSS THROUGH THE IRRIGATION METER IS 10% OF THE STATIC PRESSURE PROVIDED. WATER FLOW THROUGH IRRIGATION MAIN OR LATERAL LINES IS RECOMMENDED TO BE AT LESS THAN 5 FEET PER SECOND TO MINIMIZE WATER HAMMER DAMAGE.

19. NO OVERSPRAY WILL BE PERMITTED ONTO ANY ADJACENT STRUCTURES, SIDEWALKS, PARKING LOTS OR PAVED AREAS UNLESS APPROVED BY OWNER. ALL SPRAY HEADS IN BED AREAS THAT ARE VISIBLE FROM THE PUBLIC SHALL BE INSTALLED SO THAT THE TOP OF THE SPRAY HEAD IS LEVEL WITH FINISH GRADE, OTHERWISE IT MAY BE MOUNTED AT A MAXIMUM OF 6 INCHES ABOVE FINISH GRADE WHERE NECESSARY TO GAIN ADDITIONAL HEIGHT. ALL SPRAY HEADS IN TURF AREAS SHALL BE 4" POP-UP.

20. ALL IRRIGATION SPRINKLERS SHALL BE INSTALLED PER THE SPRINKLER MANUFACTURER'S RECOMMENDATIONS AND IN COMPLIANCE WITH THE INSTALLATION DETAILS SHOWN HEREIN. IF DISCREPANCIES OCCUR, CONTACT LANDSCAPE ARCHITECT FOR MORE INFORMATION.

21. CONTRACTOR SHALL INSTALL DRAIN VALVES AT LOW POINT ON SYSTEM MAINLINE 22. ALL SPRINKLERS SHOULD BE INSTALLED A MINIMUM OF 12 INCHES FROM BUILDING FOUNDATIONS AND 4 INCHES FROM SIDEWALKS OR OTHER PAVING. IRRIGATION PIPING SHOULD BE RUN ALONG EDGES OF PAVEMENT, SUCH AS AT THE BACK OF CURBING, WHERE APPLICABLE, KEEPING A MINIMUM DISTANCE OF 4

INCHES FROM PAVING. 23. IRRIGATION SYSTEM IS DESIGNED TO OPERATE AT 51 GPM AT 50-75 PSI

> NOTE: IRRIGATION MAINLINE AND LATERAL ROUTING IS DIAGRAMMATIC. IRRIGATION CONTRACTOR TO ROUT ALL MAINLINE AND LATERALS WITHIN PROJECT BOUNDARIES AND THROUGH SLEEVES AND BEDS.

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Generated:	2016-02-24 14:45
P.O.C. NUMBER: 01 Water Source Information:	TIE INTO EXISTING MAINLINI VERIFY WATER PRESSURE BEFORE BEGINNING WORK
FLOW AVAILABLE Point of Connection Size: Flow Available:	2" 78.62 gpm
PRESSURE AVAILABLE <u>Static Pressure at POC:</u> Pressure Available:	80.00 psi 80.00 psi
DESIGN ANALYSIS Maximum Station Flow: Flow Available at POC: Residual Flow Available:	50.80 gpm 78.62 gpm 27.82 gpm
Critical Station: Design Pressure: Elevation Loss: Friction Loss: Fittings Loss: Loss through Valve: Pressure Req. at Critical Station: Loss for Fittings: Loss for Main Line: Loss for POC to Valve Elevation: Loss for Backflow: Critical Station Pressure at POC: Pressure Available:	0.46 psi 4.56 psi 5.72 psi 0.00 psi

NOTE: MANUFACTURERS LISTED MAY CHANGE THEIR PRODUCT NUMBER OR DISCONTINUE PRODUCTS WITHOUT NOTICE. IF COMPONENTS ARE UNAVAILABLE, NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY AND PROVIDE MANUFACTURER'S RECOMMENDED SUBSTITUTION FOR REVIEW PRIOR TO ORDERING OR INSTALLATION.

IRRIGATION SCHEDULE

NOTE: IT SHALL BE THE

PROVIDE AND WARRANT SPECIFIC WATER VOLUME, WATER QUALITY AND WATERING FREQUENCY FOR ALL SPECIES OF TREES,

WITH SEASONAL REQUIREMENTS.

IRRIGATION CONTRACTOR'S RESPONSIBILITY TO DETERMINE

SHRUBS, GROUNDCOVERS AND SOD AS IDENTIFIED ON THE LANDSCAPE PLAN. SUBMIT WATER SCHEDULE TO OWNER

INTIGATION	SCHEDULL				
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	<u>PSI</u>	<u>GPM</u>	RADIUS
14	RAIN BIRD F4-PC, FC TURF ROTOR, 4.0" POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE. WITH REMOVABLE SEAL-A-MATIC CHECK VALVE, 1" FEMALE THREADED INLET.	48	50	12.7	59'
<u>SYMBOL</u>	MANUFACTURER/MODEL/DESCRIPTION	QTY			
	RAIN BIRD PEB $1"$, $1-1/2"$, $2"$ PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	12			
X	ISOLATION VALVE VALVE SIZE TO MATCH MAINLINE	4			
(D)	DRAIN VALVE SIZE TO MATCH MAINLINE	1			
C	RAIN BIRD ESP4MEI WITH (3) ESP—SM3 13 STATION, HYBRID MODULAR INDOOR CONTROLLER. FOR RESIDENTIAL OR LIGHT COMMERCIAL APPLICATIONS.	1			
R	RAIN BIRD RSD—BEX RAIN SENSOR, WITH METAL LATCHING BRACKET, EXTENSION WIRE.	1			
POC	POINT OF CONNECTION 2" TIE INTO EXISTING MAINLINE, VERIFY WATER PRESSURE BEFORE BEGINNING WORK	1			
	- IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 PVC CLASS 200 IRRIGATION PIPE.	3,973 L.F.			
	- IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 PVC CLASS 200 IRRIGATION PIPE. Valve Callout	1,828 L.F.			

Valve Number - Valve Flow - Valve Size

GENERAL IRRIGATION NOTES:

1. UNDERGROUND UTILITIES; A. UNDERGROUND UTILITIES HAVE NOT BEEN VERIFIED BY THE OWNER, LANDSCAPE ARCHITECT, OR THEIR REPRESENTATIVES. BEFORE YOU DIG CALL TENNESSEE ONE CALL SYSTEM 1-800-351-1111. B. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY UNDERGROUND UTILITIES TO REMAIN.

2. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS TO INSURE THAT THE NEW WORK SHALL FIT INTO THE EXISTING SITE IN THE MANNER INTENDED AND AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO THOSE ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO PERFORMING ANY WORK IN THE AREA INVOLVING DIFFERENCES. NOTIFICATION SHALL BE MADE IN THE FORM OF A DRAWING OR SKETCH INDICATING FIELD MEASUREMENTS AND NOTES RELATING TO THE AREA.

3 THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR PROCURING ALL NECESSARY PERMITS TO COMPLETE INSTALLATION OF THE IRRIGATION SYSTEM.

4. ALL WORK IS TO MEET ALL STATE AND LOCAL CODES.

5. CONTRACTOR IS TO VERIFY ALL QUANTITIES SHOWN ON PLAN AND IN LIST. IF DISCREPANCIES OCCUR. CONTRACTOR IS TO CONTACT LANDSCAPE ARCHITECT IMMEDIATELY. QUANTITIES SHOWN ON PLAN TAKE PRECEDENCE.

6. THE CONTRACTOR IS SUBJECT TO RANDOM INSPECTIONS BY THE OWNER AND/OR OWNER'S REPRESENTATIVE AT ANY TIME DURING THE INSTALLATION PROCESS. THE CONTRACTOR MAY ALSO BE REQUIRED TO SUPPLY THE OWNER WITH A COMPLETE SET OF PHOTOGRAPHS PRIOR TO PAYMENT.



1314 5th Avenue North, Suite 200 Nashville, Tennessee 37208 (615) 242-0040 220 West Crogan Street, Suite 100 Lawrenceville, Georgia 30046 (770) 338-0017

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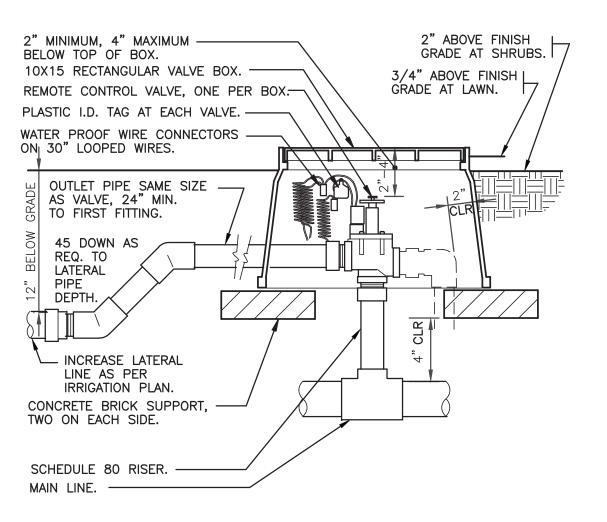
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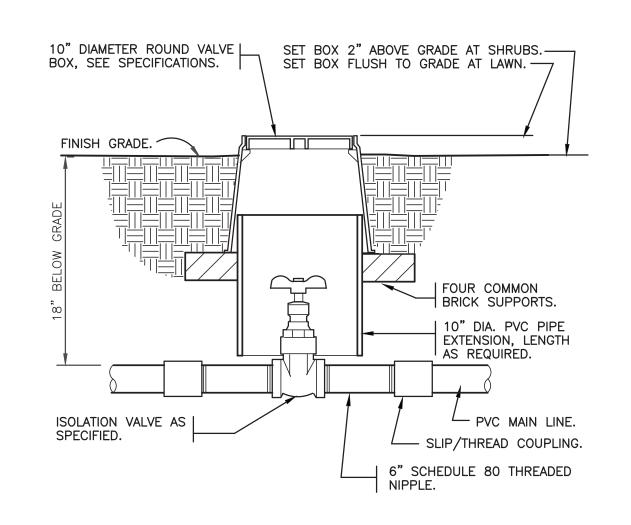
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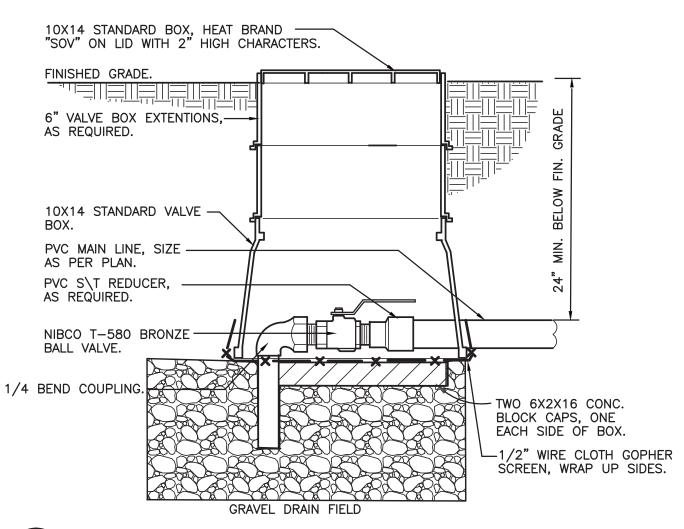
IRRIGATION NOTES/SCHEDULE

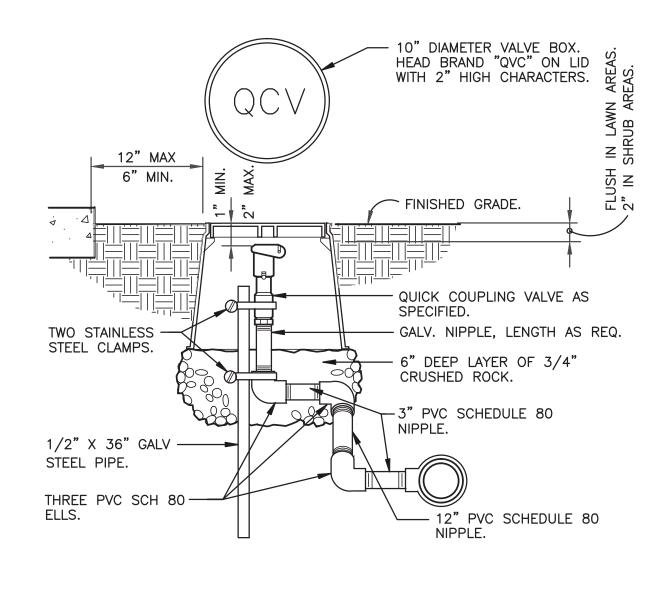
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PROJECT NO. 15104	DATE 10/13/15
DRAWN BY JWS	SCALE
CHECKED BY CLC	- N.T.S.
SHEET NUMBER	











.08E&A880CIATES, INC

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COMMENTS #### #### #### #### ####

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SHEET TITLE

IRRIGATION DETAILS

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15104 10/13/15

SCALE

DRAWN BY N.T.S. CHECKED BY SHEET NUMBER

ELECTRIC REMOTE CONTROL VALVE 328406.13-02

BRASS ISOLATION VALVE

328406.33-01

DRAIN VALVE SITEBBQ-DG-33

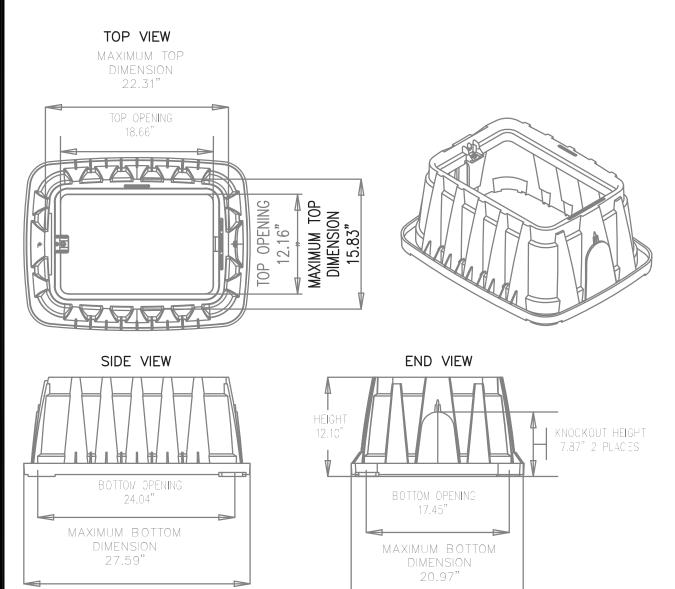
ALL SLEEVES TO EXTEND 2' BEYOND BACK OF CURB ON EACH END.
 NO 90° OR 45° COUPLINGS TO BE USED ON SLEEVES.

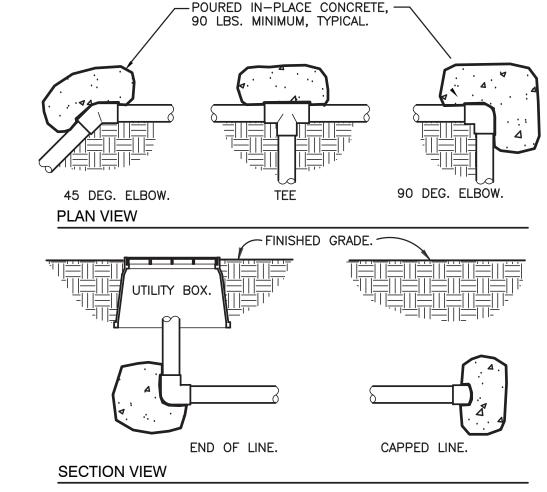
CONTRACTOR.

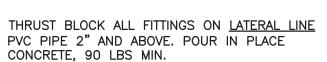
SLEEVES MUST BE STRAIGHT TO ALLOW PIPE TO BE INSERTED BY IRRIGATION

LATERAL AND

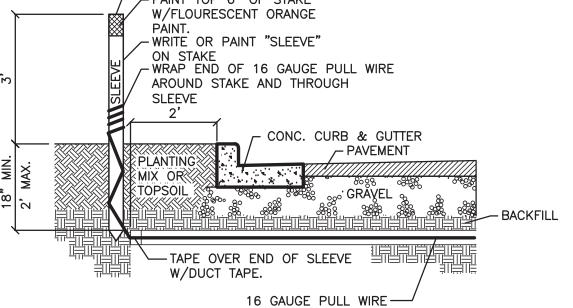
328406.43-05







 SLEEVES NOT INSTALLED AT PROPER DEPTH WILL BE REINSTALLED TO CONFORM TO CONTRACTOR TO VERIFY SLEEVE INTEGRITY PRIOR TO FINAL PAVING. CONTRACTOR MAY SUBSTITUTE MULTIPLE SMALL SLEEVES IN PLACE OF LARGER SLEEVES. SLEEVES NOT TO BE SMALLER THAN 2 (TWO) INCHES. • IRRIGATION SLEEVES TO BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. REFER TO SHEET LP2 FOR IRRIGATION DESIGN. _2"x4" WOOD STAKE @ END OF SLEEVE. PAINT TOP 6" OF STAKE W/FLOURESCENT ORANGE -- WRITE OR PAINT "SLEEVE" AROUND STAKE AND THROUGH SLEEVE





INTERVALS

— TAPE AND BUNDLE

WIRING AT 10 FT.

328409.76-05

LALL 120 VOLT WIRING IN

-ALL PLASTIC PIPING TO BE SNAKED IN TRENCHES AS SHOWN.

- ALL MAIN LINES TO BE INSTALLED IN

ACCORDANCE WITH MANUFACTURER'S

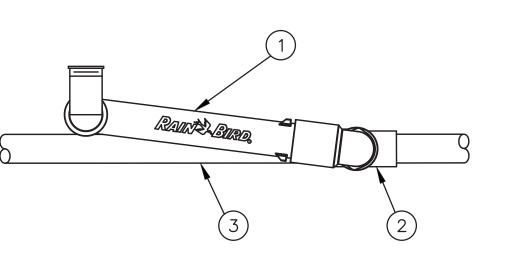
INSTALLATION SPECIFICATIONS.

CONDUIT TO BE INSTALLED IN

ACCORDANCE WITH LOCAL CODE.

CONC. THRUST BLOCK FOR LATERAL LINES

328409-21



- (1) PRE-FABRICATED PVC SWING JOINT, 1" MALE NPT X 1" MALE NPT, 12" LONG: RAIN BIRD TSJ-12
- 2 PVC SCH 40 TEE OR ELL
- (3) LATERAL PIPE

SET CONTROLLER 60" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED. CONTROLLER AS SPECIFIED. -- SECURELY BOLT CONTROLLER TO WALL. INSTALL BACKUP BATTERIES AS REQUIRED. GROUND AS PER MFG. SPECIFICATIONS. 1/2" DIAMETER RIGID — STEEL CONDUIT FOR - 1 1/2" DIAMETER RIGID 110 VAC ELECTRICAL STEÉL CONDUIT FOR SOURCE. INSTALL AS RCV WIRES. PER LOCAL ELECTRICAL FINISHED GRADE. LONG SWEEP ELL.

-USE PVC SCH. 40 BELOW GRADE.

5 6 3 7 5	
ROTOR POP-UP SPRINKLER -FALCON 6504	



RAIN BIRD JUMBO VALVE BOX DIMENSIONS (1) FINISH GRADE 2 ROTOR POP-UP SPRINKLER: RAIN BIRD FALCON 6504 F4-FC/PC 3 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED) (4) PVC SCH 40 ELL

OPTIONAL PRE-FABRICATED SWING JOINT - RAIN BIRD TSJ-12

1 EAVE OF BUILDING

5 MOUNTING BRACKET

② RAIN SENSOR: RAIN BIRD RSD-BEx

WIRE TO IRRIGATION CONTROLLER

4 PLASTIC TIE DOWN STRAP

6 SECURE WIRE WITH CABLE TIE BRACKET (1 OF 2)

(5)PVC SCH 40 STREET ELL (6) PVC LATERAL PIPE (7) PVC SCH 40 TEE OR ELL ____

WALL MOUNT CONTROLLER

IRRIGATION SLEEVING DETAIL

SITEBBQ-DG-17

SITEBBQ-DG-01