CONTRACTOR SHALL LOCATE AND CONNECT TO EXISTING IRRIGATION MAIN LINE. IRRIGATION SYSTEM SHALL MEET LOCAL AND STATE REGULATIONS.

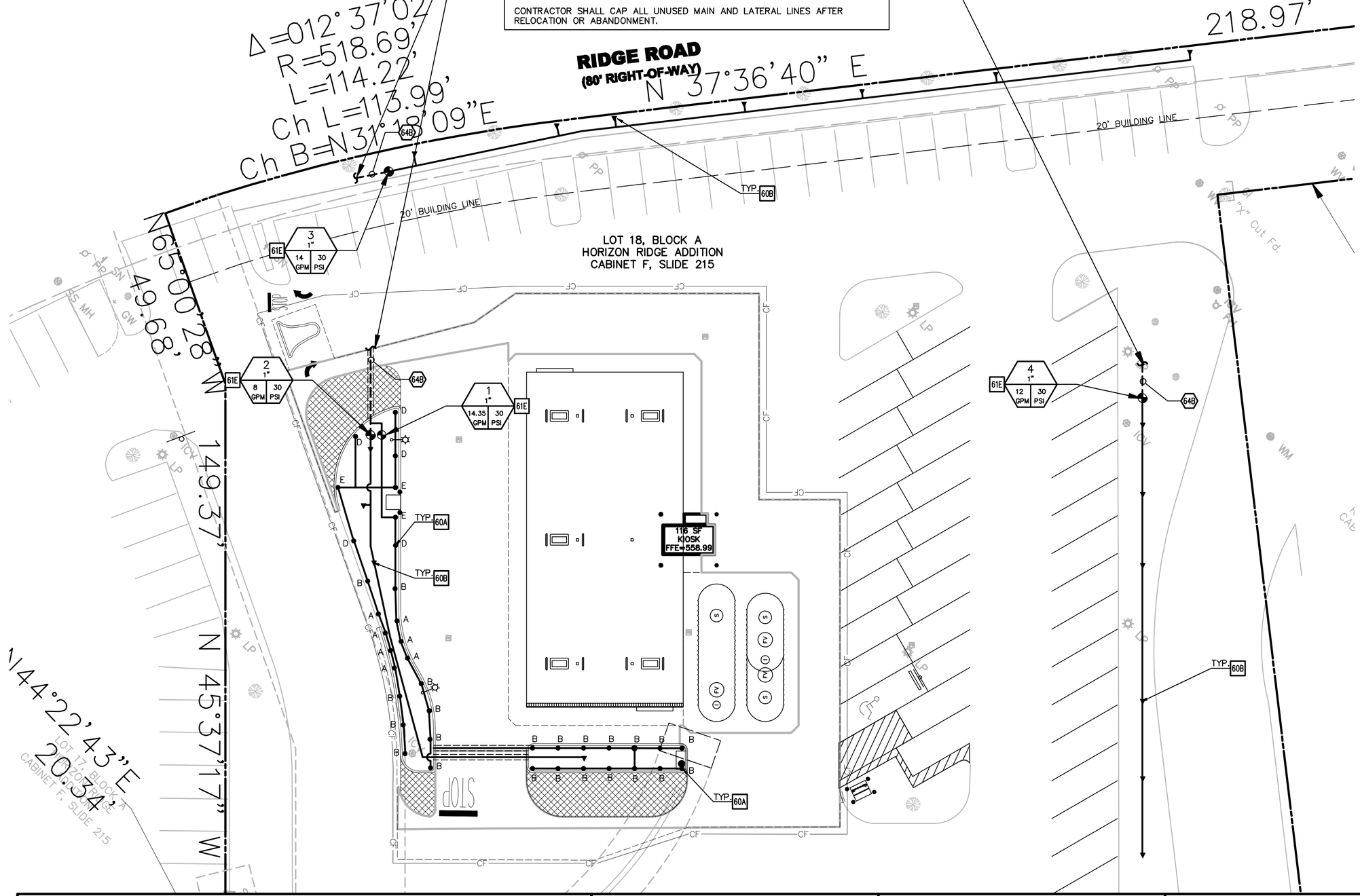
CONTRACTOR SHALL PROVIDE AN ALTERNATE BID FOR IRRIGATION WATER METER, BACKFLOW PREVETER, ETC...IF IT IS DETERMINED THAT CONNECTION TO EXISTING IRRIGATION SYSTEM IS NOT FEASIBLE.

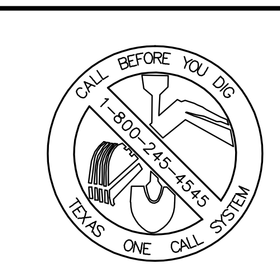
WHERE EVER CONVENIENT CONTRACTOR MAY LOCATE MULTIPLE LINES IN THE SAME TRENCH AND CLUSTER VALVES.

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE EXISTING LANDSCAPING AND IRRIGATION SYSTEM. THE CONTRACTOR SHALL REPLACE/RESTORE ALL LANDSCAPING AND IRRIGATION DAMAGED DURING THE CONSTRUCTION PHASE.

CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS AND ASSURE PROPER FUNCTIONING OF REESTABLISHED, REPAIRED, RELOCATED AND/OR NEW IRRIGATION COMPONENTS.

CONTRACTOR SHALL CAP ALL UNUSED MAIN AND LATERAL LINES AFTER RELOCATION OR ABANDONMENT.





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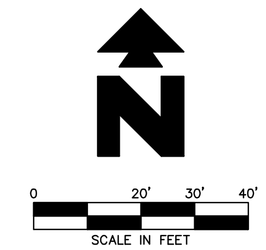
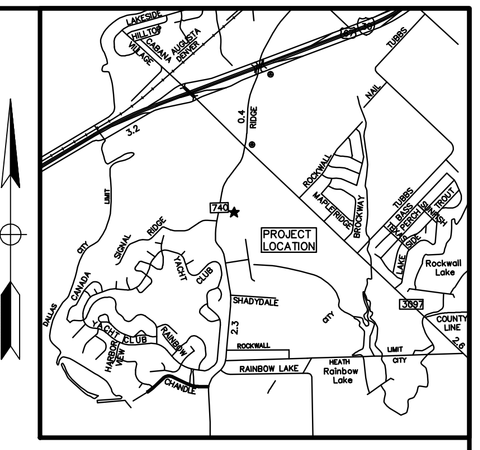




Vicinity Map

Not to Scale

GENERAL IRRIGATION NOTES

A. IRRIGATION CONTRACTOR SHALL TEST EXISTING STATIC PRESSURE ON SITE PRIOR TO CONSTRUCTION. SHOULD EXISTING SITE PRESSURE BE BELOW 66# STATIC, CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.

B. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING MANUAL DRAIN VALVES AT LOWEST POSSIBLE ELEVATION ON IRRIGATION MAIN SO AS TO PROVIDE POSITIVE DRAINAGE OF IRRIGATION MAIN DURING WINTER MONTHS, OR PROVIDE BLOWOUT ASSEMBLY, INSTALLATION SHALL BE PER DETAIL 62C.

C. ALL LATERAL LINES SHALL BE EQUIPPED WITH AUTOMATIC DRAIN VALVES AT LOW POINTS PER DETAIL 62D.

D. CONTRACTOR SHALL COORDINATE CONTROLLER LOCATION WITH GENERAL CONTRACTOR. 110 VOLT ELECTRICAL SERVICE FOR IRRIGATION CONTROLLER IS TO BE INSTALLED IN THE UTILITY ROOM BY GENERAL CONTRACTOR.

E. IRRIGATION CONTRACTOR SHALL COORDINATE CONSTRUCTION OF IRRIGATION SYSTEM WITH GENERAL CONTRACTOR AND LANDSCAPE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.

F. LOCATION FOR THIS UTILITY AS SHOWN IS FOR DRAWING PURPOSES ONLY. CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN FIELD PRIOR TO THE CONSTRUCTION OF THE PROPOSED UTILITY LINE TO BE CONNECTED. CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IF THE DESIGN AS SHOWN IS NOT ACHIEVABLE.

G. ALL R.C.V. CONTROLLER WIRES ARE TO BE IN CONDUIT WHILE UNDER PAVING. CONDUIT TO BE INSTALLED BY GENERAL CONTRACTOR. ROUTING OF R.C.V. WIRES TO CONTROL VALVES SHALL BE BY THE IRRIGATION CONTRACTOR.

H. ALL BELOW GRADE LOW VOLTAGE WIRING CONNECTIONS SHALL BE INSTALLED PER DETAIL 61A.

I. DO NOT INSTALL IRRIGATION AT PYLON/MONUMENT SIGN LOCATION UNTIL SIGN HAS BEEN INSTALLED.

J.

K. MINIMUM COVER FROM TOP OF PIPING TO FINISHED GRADE SHALL BE AS DESCRIBED IN THE LANDSCAPE IRRIGATION SECTION OF THE SITEWORK SPECIFICATIONS. IF SPECIFICATIONS AND/OR MANUFACTURER HAS NOT PUBLISHED SPECIFICATIONS FOR DEPTH COVERAGE OF PIPING, THE PIPING MUST BE INSTALLED TO PROVIDE MINIMUM DEPTH COVERAGE PER DETAIL 64B.

L. ALL TRENCHES AND HOLES CREATED DURING INSTALLATION OF AN IRRIGATION SYSTEM MUST BE BACKFILLED AND COMPACTED TO THE ORIGINAL GRADE.

M. THE MAXIMUM SPACING BETWEEN EMISSION DEVICES MUST NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS.

N. IRRIGATION CONTRACTOR SHALL COORDINATE IRRIGATION INSTALLATION WITH PLANTING PLAN AND SITE CONDITIONS TO PROVIDE COMPLETE COVERAGE WITH NO OVERSPRAY. THE IRRIGATION CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO ENSURE 100% COVERAGE IS PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

O. NEW IRRIGATION SYSTEMS SHALL NOT UTILIZE ABOVE-GROUND SPRAY EMISSION DEVICES IN LANDSCAPES THAT ARE LESS THAN 48" WIDE, PER STATE REQUIREMENTS. WIDTH REQUIREMENTS MAY VARY DEPENDING ON MUNICIPALITY REQUIREMENTS.

P. UNSLEEVED PIPES MAY BE SHOWN UNDER PAVEMENT FOR GRAPHIC CLARITY ONLY. INSTALL THESE PIPES IN ADJACENT LANDSCAPE AREAS WHERE POSSIBLE.

Q. VALVES BOXES SHALL BE INSTALLED FLUSH WITH GRADE, SUPPORTED BY BRICKS IF NEEDED, WITH 3" OF CLEAN PEA GRAVEL LOCATED BELOW THE VALVE.

R. ALL MAIN LINE PIPING, NON-PRESSURE PIPING AND CONTROL WIRE SLEEVING SHALL BE INSTALLED IN SEPARATE SLEEVES. MAINLINE SLEEVE SIZE SHALL BE A MINIMUM OF TWICE (2X) THE DIAMETER OF THE PIPE TO BE SLEEVED. CONTROL WIRE SLEEVES SHALL BE OF SUFFICIENT SIZE FOR THE REQUIRED NUMBER OF WIRES.

S. ALL LATERAL LINE PIPING UNDER PAVING SHALL BE PVC SCH. 40 PIPE AND SHALL BE INSTALLED PRIOR TO ANY HARDSCAPE MATERIAL. IRRIGATION CONTRACTOR TO PROVIDE 4" DIA. PVC SLEEVES BETWEEN 12" AND 15" BELOW GRADE AT ALL DRIVE ENTRANCES AND SIDEWALKS.

T. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF FENCES, RETAINING WALLS, PLAY STRUCTURES AND UTILITIES. THE IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED BY HIS WORK. HE SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS THROUGH WALLS, UNDER ROADWAYS AND PAVING AND TIMING, ETC.

U. ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED ON PLANS, SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS AND PER CITY/STATE CODE.

V. THE LANDSCAPE TUBING IN PLANTING BEDS IS SHOWN DIAGRAMMATIC. CONTRACTOR CAN ROUTE PIPING IN A FREEFORM MANNER (AVOIDING OBJECTS SUCH AS LIGHT POLES, TRANSFORMERS PADS, EQUIPMENT VAULTS, SUBSURFACE ROCK TOO LARGE TO REMOVE, ETC...) AS LONG AS ALL PLANT MATERIAL RECEIVES THE PROPER NUMBER OF EMITTERS PER SCHEDULE AND THE VINYL DISTRIBUTION TUBING DOES NOT EXCEED THE MAXIMUM DESIGN LENGTHS PER MANUFACTURER'S RECOMMENDATIONS.

W. CONTRACTOR SHALL PROTECT EXISTING TREES FROM DAMAGE DURING INSTALLATION PROCEDURES.

X. THE IRRIGATION PLANS ARE SCHEMATIC AND MAY BE EXAGGERATED. CONTRACTOR SHALL INSTALL PER MANUFACTURES SPECIFICATIONS AND PER CITY/STATE CODE.

LEGEND

PROPOSED

- BOUNDARY LINE
- RIGHT OF WAY LINE
- STORM DRAIN
- IRRIGATION LATERAL LINE: PVC CLASS 200. SEE IRRIGATION PIPE SCHEDULE
- IRRIGATION MAINLINE: 1" PVC SCHEDULE 40.
- IRRIGATION SLEEVE: PVC SCHEDULE 40 TYPICAL. SLEEVE SHALL ALLOW FOR IRRIGATION PIPING AND ANY RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 18" BEYOND EDGES OF PAVING OR CONSTRUCTION LIMITS.
- ZONE DESIGNATION
- VALVE SIZE
- DESIGN PRESSURE – POUNDS PER SQUARE INCH
- DESIGN DEMAND – GALLONS PER MINUTE

IRRIGATION DETAILS

●	60A	SPRAY HEAD. SEE NOZZLE LIST FOR HEAD AND NOZZLE DESCRIPTION.
▼	60B	POP-UP BUBBLER HEAD. RAINBIRD 1408. INSTALL 2 PER TREE.
	61A	WIRE CONNECTION (NOT SHOWN ON PLAN; USE ON BELOW GRADE LOW VOLTAGE WIRING)
	61E	ELECTRIC VALVE AND BOX VALVE: RAINBIRD-PEB (SEE PLAN FOR SIZE). • VALVE BOXES: 12" STANDARD-SIZE, SPECIFICATION GRADE, UV-RESISTANT PLASTIC VALVE BOX. • LOCATE VALVES AT LEAST 18" AWAY FROM FACE OF CURB AND AVOID PLACEMENT AT OR PAST CURB RADIUS ALONG VEHICULAR ROUTES.
	62C	MANUAL DRAIN VALVE (NOT SHOWN ON PLAN; INSTALL AT LOWEST POINT ON MAIN LINE).
	62D	AUTOMATIC DRAIN VALVE (NOT SHOWN ON PLAN; INSTALL ON LOW AREAS AS NEEDED).
	64A	IRRIGATION PIPE AND WIRE TRENCHING.

IRRIGATION NOTES

64B	MAIN LINE SHOWN HERE FOR DRAWING PURPOSES ONLY; CONTRACTOR SHALL INSTALL MAIN LINE ETC. WITHIN PROPERTY.

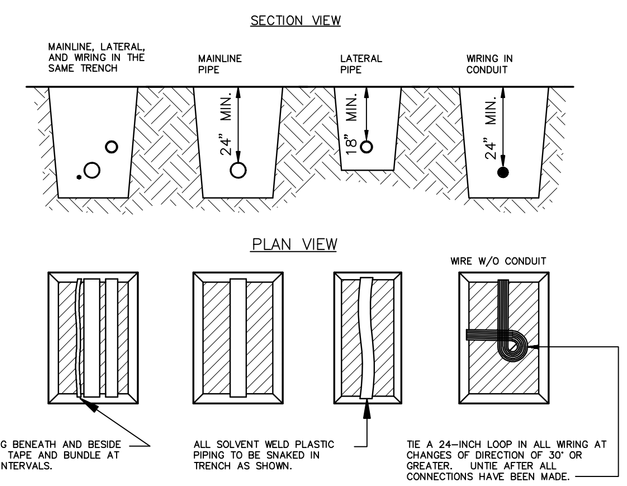
SPRINKLER NOZZLE LIST

KEY	QTY.	DESCRIPTION
A	7	1804-SAM-PRS-5 SERIES MPR
B	23	1804-SAM-PRS-8 SERIES MPR
D	5	1804-SAM-PRS-12 SERIES MPR
E	3	1804-SAM-PRS-15 SERIES MPR
▼	34	1806-SAM-PRS-1404 (2 PER TREE)

IRRIGATION PIPE SCHEDULE

CLASS 200 IRRIGATION PIPE SCHEDULE	
PIPE SIZE	G.P.M.
1/2"	0-5
¾"	6-10
1"	11-18
1-¼"	19-27
1-½"	28-36
2"	37-57
2-½"	58-80
3"	81-120

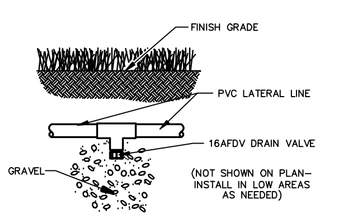
NOTE:
IN SOME CASES, IRRIGATION PIPE SIZES SHOWN ON IRRIGATION PLANS ARE LARGER THAN THE SIZE SHOWN ON PIPE SCHEDULE DUE TO HYDRAULIC LOSSES. USE PIPE SIZES AS SHOWN ON IRRIGATION PLANS IF PROVIDED.



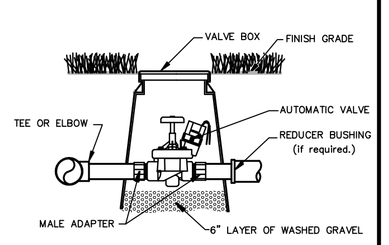
NOTES:

1. ALL LATERAL LINES SHALL BE SDR-13.5 PVC PIPE. ALL MAIN LINES SHALL BE SDR-21 PVC PIPE.
2. SLEEVES BELOW ALL HARDSCAPE ELEMENTS SHALL BE SCH. 40 PVC AND SHALL BE TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.
3. ALL LATERAL LINES SHALL BE BURIED NO LESS THAN 18" DEEP. ALL MAIN LINES AND ELECTRICAL LINES SHALL BE NO LESS THAN 24" DEEP.

IRRIGATION PIPE AND WIRE TRENCHING 64A
N.T.S.



AUTOMATIC DRAIN VALVE 62D
N.T.S.



ELECTRIC VALVE AND BOX 61E
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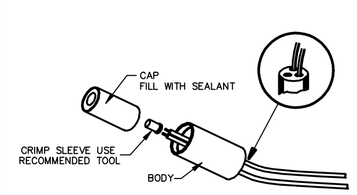

WIRE CONNECTION 61A
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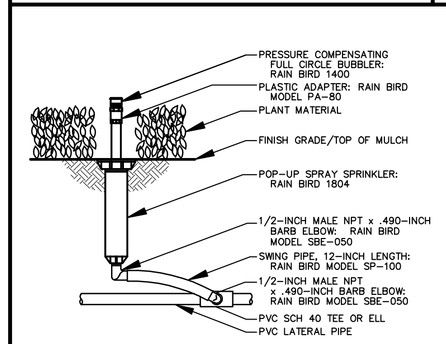
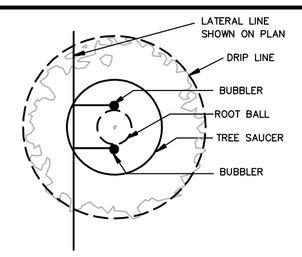
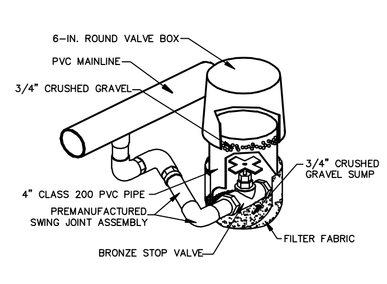




PLAN

ALL BUBBLERS SHALL BE PLACED AS SHOWN ON PLAN WITH 2 OUTLETS LOCATED ON OPPOSITE EDGES OF THE ROOT BALL.

POP-UP BUBBLER HEAD 60B
N.T.S.



MANUAL DRAIN VALVE 62C
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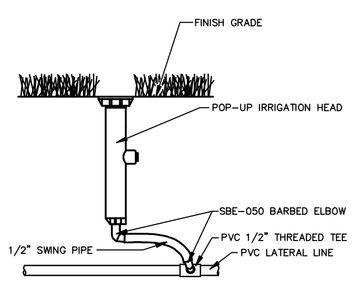

POP-UP IRRIGATION HEAD 60A
N.T.S.

AS-BUILT

STATE OF TEXAS
MARIA A. PEÑA
9654
LICENSED IRRIGATOR
11/30/2011
F-7524

INITIAL DESIGN	11/28/11	LWY	CWO	TJA	TJA
	DATE	PRN	PM	DES	DRW

KROGER SW-575
FUEL CENTER

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IRRIGATION PLAN
2935 RIDGE ROAD
ROCKWALL, TEXAS

DATE 12/1/11 11:01 AM AS-BUILT
SHEET NO. C10 OF 11

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