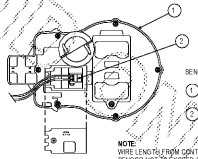
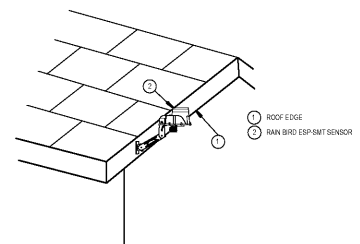


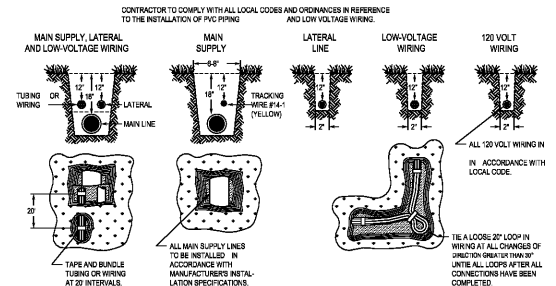
- GENERAL NOTES:**
- RAIN BIRD ESP-SMTe INSIDE WALL MOUNT
  - 1 INCH PVC SCH 40 CONDUIT AND FITTINGS
  - WIRES TO REMOTE CONTROL VALVES AND SENSOR
  - STANDARD MODULE FOR 4 STATION CONTROLLER
  - OPTIONAL MODULES FOR 22 B W/ION CONTROLLER
  - 120 VAC 60 HZ TERMINAL PLUG IN TRANSFORMER
  - CONNECTION FOR WIRES FROM SENSOR



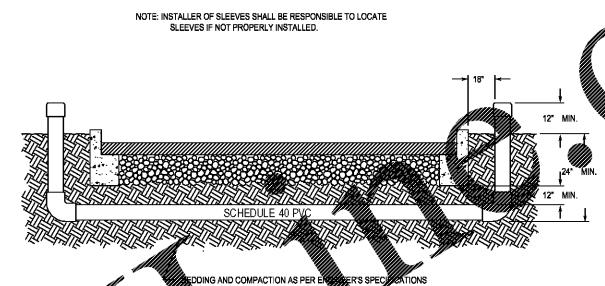
NOTE: WIRE LENGTH FROM CONTROLLER TO SENSOR NOT TO EXCEED 300 FEET



- NOTES:**
- LENGTH OF WIRE FROM CONTROLLER TO SENSOR SHOULD BE NO GREATER THAN 300 FEET
  - SENSOR MAY BE MOUNTED ON FENCE, FENCE POST OR ON ROOF OR BUILDING
  - SENSOR SHOULD NOT BE MOUNTED UNDER TREES, IN AREAS AFFECTED BY SPRINKLER SYSTEM OR UNDER EAVE OF BUILDING



- CONTRACTOR TO COMPLY WITH ALL LOCAL CODES AND ORDINANCES IN REFERENCE TO THE INSTALLATION OF PVC PIPING AND LOW VOLTAGE WIRING.
- NOTES:**
- ALL MAIN SUPPLY LINES TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER INSTALLATION SPECIFICATIONS.
  - TIFF AND BRIDGE TURNING OR WIRING AT 20' INTERVALS.
  - TEALOODS 20' LOOP IN WIRING AT ALL CORNERS OF DRIFTION OR 18" MIN. UNLESS ALL JOINTS AFTER ALL CONNECTIONS HAVE BEEN COMPLETED.
  - ALL 120 VOLT WIRING IN IN ACCORDANCE WITH LOCAL CODE.



NOTE: INSTALLER OF SLEEVES SHALL BE RESPONSIBLE TO LOCATE SLEEVES IF NOT PROPERLY INSTALLED.

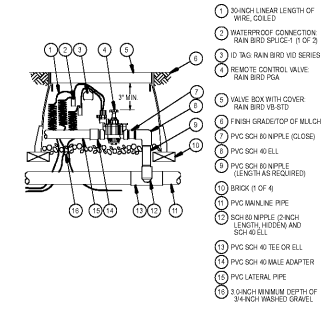
BEDDING AND COMPACTION AS PER ENGINEER'S SPECIFICATIONS

1 IRRIGATION SMART CONTROLLER: ESP-SMTe SCALE:NTS

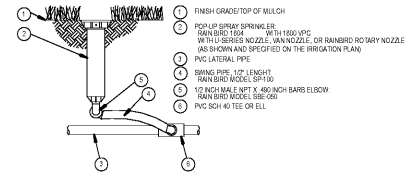
2 IRRIGATION WEATHER SENSOR SCALE:NTS (LOCATE AT DUMBBSTER WALL)

3 IRRIGATION TRENCHING AND PIPE DEPTH SCALE:NTS

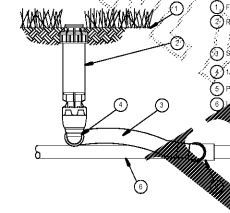
4 IRRIGATION SLEEVING SCALE:NTS



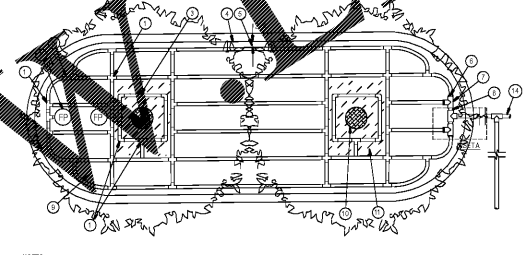
- 3/4 INCH LINEAR LENGTH OF WIRE, COILED
- WATERPROOF CONNECTION RAIN BIRD V8 SERIES (1 OF 3)
- 1/2 INCH RAIN BIRD V8 SERIES
- REMOTE CONTROL VALVE RAIN BIRD PGA
- VALVE BOX WITH COVER RAIN BIRD V8
- FINISH GRADE/TOP OF MULCH
- PVC SCH 80 NIPPLE (CLOSE)
- PVC SCH 40 ELL
- PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- BRICK (1 OF 4)
- PVC MAINLINE PIPE
- SCH 80 NIPPLE (2 INCH LENGTH, HIDDEN AND SCH 40 ELL)
- PVC SCH 40 TEE OR ELL
- PVC SCH 80 MALE ADAPTER
- PVC LATERAL PIPE
- 3 INCH MINIMUM DEPTH OF 3/4 INCH WASHED GRAVEL



- FINISH GRADE/TOP OF MULCH
- POP UP SPRAY SPRINKLER RAIN BIRD 1804
- 1/2 INCH PVC SCH 80 NIPPLE (CLOSE) AND BROWN AND SPECIFIED ON THE IRRIGATION PLAN
- PVC LATERAL PIPE
- BRASS WIRE 1/2" DIA. RAIN BIRD MODEL SP-100
- 1/2 INCH MALE X 1/2 INCH BARB ELBOW RAIN BIRD MODEL SEE 508
- PVC SCH 40 TEE OR ELL



- FINISH GRADE
- ROTOR POP UP SPRINKLER RAIN BIRD 5004
- 1/2 INCH PVC SCH 80 NIPPLE (CLOSE) AND BROWN AND SPECIFIED ON THE IRRIGATION PLAN
- 1/2 INCH MALE X 1/2 INCH BARB ELBOW RAIN BIRD MODEL SEE 508
- PVC SCH 40 TEE OR ELL
- PIPE



- NOTES:**
- DISTANCE BETWEEN LATERAL ROWS AND CENTER SPRING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGE IN ELEVATION. SEE INSTALLATION SPECIFICATIONS ON RAIN BIRD WEBSITE (WWW.RAINBIRD.COM) FOR SUGGESTED SPACING.
  - LENGTH OF LONGEST DRIFLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.
  - PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
  - AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE THE DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.
  - WHEN USING TRAM INSERT FITTINGS WITH DESIGN PRESSURE OVER 100 PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

KCFV Drifline Maximum Lateral Lengths (Feet)	1" Spacing		18" Spacing	
	Hardpan (PSI)	Hardpan (PSI)	Hardpan (PSI)	Hardpan (PSI)
20	132	138	224	233
30	198	208	400	397
40	264	276	600	578
50	330	348	807	807
60	400	420	1027	1027

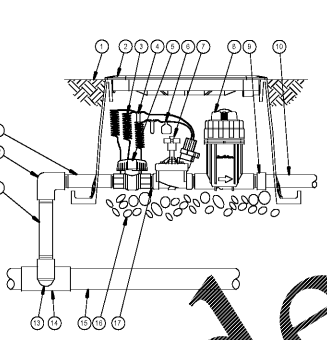
- BARB X BARB INSERT ELL, TEE OR CROSS RAIN BIRD XT F ELL (TYPICAL)
- FLUSH POINT (TYPICAL) SEE RAIN BIRD WEBSITE FOR FLUSH POINT
- ON SURFACE DRIFLINE PIPE RAIN BIRD XT SERIES DRIFLINE PORTABLE XT CV SERIES
- PARKING ISLAND CURB
- FORMIC TEE DRIFLINE PIPE TO BE INSTALLED 2" FROM PARKING ISLAND CURB
- BARB X MALE FITTING RAIN BIRD XT MA F (TYPICAL)
- PVC SCH 40 TEE OR ELL (TYPICAL)
- PVC SUPPLY MANIFOLD
- SHRUBS OR GROUND COVER BED
- TREE (TYPICAL)
- MULCH BED FOR TREE
- 3 INCH DEPTH OF MULCH
- FINISH GRADE
- PVC DRIF MANIFOLD FROM RAIN BIRD CONTROL VALVE KIT (ABLE TO MEET LATERAL FLOW DEMAND)
- PVC RISER PIPE

5 IRRIGATION VALVE: 100-PGA SCALE:NTS

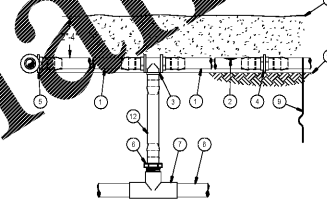
6 POP-UP SPRAY: 1804 SERIES SCALE:NTS

7 POP-UP ROTOR: 5004 SERIES W/T MPR NOZZLE SCALE:NTS

8 DRIP: SYSTEM LAYOUT AND INSTALLATION OVERVIEW SCALE:NTS

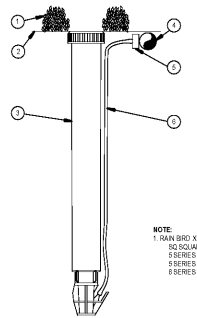


- FINISH GRADE/TOP OF MULCH
- VALVE BOX WITH COVER RAIN BIRD V8
- 3/4 INCH LINEAR LENGTH OF WIRE, COILED
- WATERPROOF CONNECTION RAIN BIRD V8 SERIES (1 INCH DIA. ONLY INCLUDED IN XCF-PRB-100-COM KIT)
- 1/2 INCH RAIN BIRD V8 SERIES
- REMOTE CONTROL VALVE RAIN BIRD PRB 100
- PRESSURE RATED CHECK VALVE (INCLUDED IN XCF-PRB-100-COM KIT)
- 1/2 INCH MALE X 1/2 INCH BARB ELBOW RAIN BIRD MODEL SEE 508
- PVC SCH 40 MALE ADAPTER
- LATERAL PIPE
- PVC SCH 80 NIPPLE LENGTH AS REQUIRED
- PVC SCH 80 NIPPLE (2 INCH LENGTH, HIDDEN AND PVC SCH 40 ELL AND SCH 40 TEE OR ELL)
- PVC MAINLINE PIPE
- 3 INCH MINIMUM DEPTH OF 3/4 INCH WASHED GRAVEL (INCLUDED IN XCF-PRB-100-COM KIT)

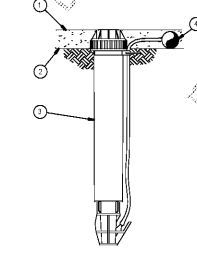


- NOTES:**
- PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
  - AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE THE DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.
  - SAVE YOUR HANDS! USE THE RAIN BIRD FITTING TOOL KIT INSERTION TOOL FOR FITTING ASSEMBLY.

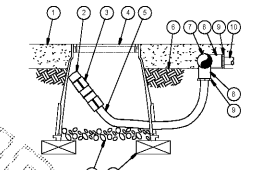
- ON SURFACE DRIFLINE RAIN BIRD XT SERIES DRIFLINE PORTABLE XT CV DRIFLINE
- MALE DRIP EMITTER OUTLET, SEE PLANS FOR DRIFLINE EMITTER SPACING
- BARB TEE 1/2" X 1/2" X 1/2" RAIN BIRD XT TEE
- BARB COLLARS 1/2" X 1/2" RAIN BIRD XT COLLAR
- BARB ELBOW 1/2" X 1/2" RAIN BIRD XT ELBOW
- BARB MALE ADAPTER 1/2" X 1/2" RAIN BIRD XT MA-000
- 1/2" X 1/2" RAIN BIRD XT MA-000
- PVC TEE BOLT
- PVC LATERAL SUPPLY HEADER
- TIE DOWN STAKE RAIN BIRD TOS-080 WITH BEND (TYPICAL)
- MULCH
- FINISH GRADE
- RAIN BIRD XT SERIES BLANK TUBING LENGTH AS REQUIRED



- NOTE:**
- RAIN BIRD XERI-POP CAN UTILIZE THE FOLLOWING NOZZLES: 50 SQUARE NOZZLES (FORMERLY XPCN) 5 SERIES MPR NOZZLES (ALL LOW ORBITATIONS) 5 SERIES PLASTIC BUBBLERS 5 SERIES MPR NOZZLES (E, ET AND RQ)



- NOTE:**
- USE KERMAN TOOL KIT TOOL TO INSERT BARB TRANSFER FITTING DIRECTLY INTO DRIFLINE TUBING.
  - BARB NOZZLE MAY BE SET TO CLOSED, OR IF IT IS DESIRED TO SEE SPRAY FROM THE NOZZLE, SET THE ARC TO W/ PATTERN. THE FLOW FROM THE NOZZLE, 0.3 GPM, SHOULD BE ACCOUNTED FOR IN THE SYSTEM DESIGN.



- NOTE:**
- CALCULATE MINIMUM DEPTH OF DRIFLINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSH WATER OUTSIDE MULCH BED

9 DRIP VALVE: XCF-PRB-100-COM SCALE:NTS

10 DRIP: ON-SURFACE RISER ASSEMBLY SCALE:NTS

11 DRIP: XERI-POP MICRO SPRAY SCALE:NTS (FOR USE AT COLOR BEDS)

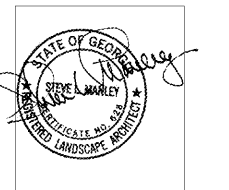
12 DRIP: PERATION INDICATOR SCALE:NTS

13 DRIP: DRIFLINE FLUSH POINT SCALE:NTS



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REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	11.25.17	City Comments
3	2.6.18	For Bid

MLD PROJECT #	2017141
PRINTED FOR	Bid
DATE	10.27.17
DRAWN BY	SLG

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SHEET  
**Irrigation Details**

SHEET NUMBER  
**L-201**