

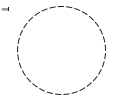
MATCHLINE - SEE SHEET L6.02

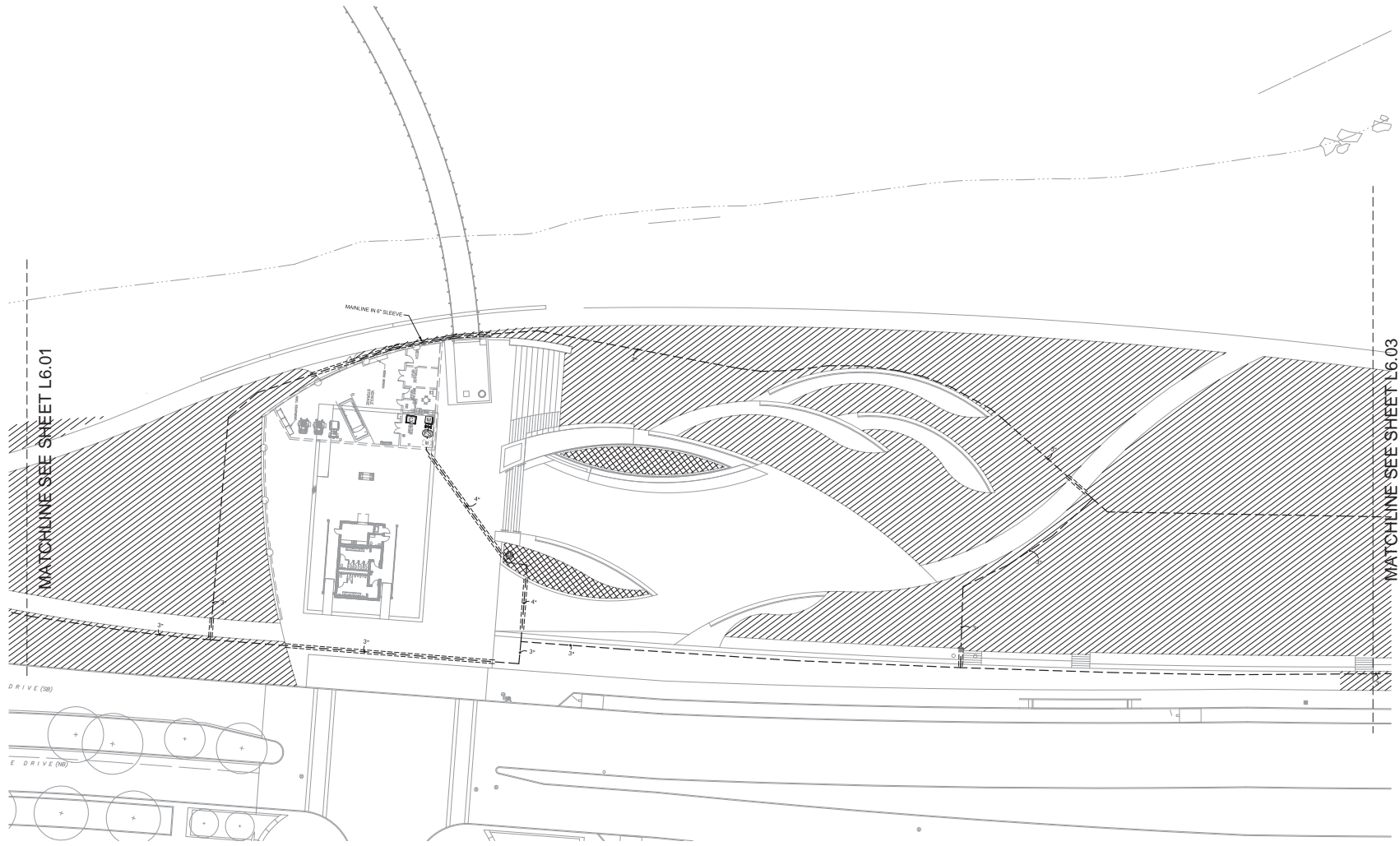
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL
	RAN BRD 300-48PS CONTROL VALVE
	RAN BRD 5-4G QUICK COUPLER VALVE
	MATCO/CHORCA 10RT GATE VALVE
	RAN BRD 300-48PS GLOBE MASTER VALVE 3"
	FEBCO 660 MASTER SERIES BACKFLOW PREVENTER
	RAN BRD ESPALXD DAMPER CONTROLLER
	RAN BRD LSPALTRF LINE SURGE PROTECTOR
	RAN BRD FS300P FLOW SENSOR
	WATER METER 1"
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21
	PIPE SLEEVE: PVC SCHEDULE 40
	POP-UP SPRAY IRRIGATION AREAS - LAWN
	DRIP IRRIGATION AREAS - PLANTING AREAS

DESIGN DEVELOPMENT SUBMITTAL
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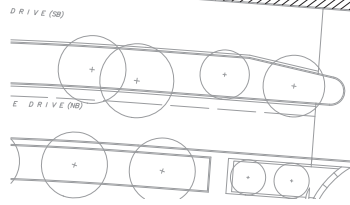
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MATCHLINE SEE SHEET L6.01

MATCHLINE SEE SHEET L6.03

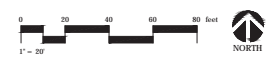
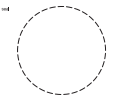


IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL
	RAIN BRD 300-48PS CONTROL VALVE
	RAIN BRD 540G QUICK COUPLER VALVE
	MATCO/CHORCA 10RT GATE VALVE
	RAIN BRD 300-6PS GLOBE MASTER VALVE 3"
	FEBCO 660 MASTER SERIES BACKFLOW PREVENTER
	RAIN BRD ESPALX30 24MINE CONTROLLER
	RAIN BRD 18PA-TURF LINE SURGE PROTECTOR
	RAIN BRD FS-200P FLOW SENSOR
	WATER METER 1"
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21
	PIPE SLEEVE: PVC SCHEDULE 40
	POP-UP SPRAY IRRIGATION AREAS - LAWN
	DRIP IRRIGATION AREAS - PLANTING AREAS

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Sheet Date: 12.19.2017
Sheet Number: 112058.07

Sheet Name: IRRIGATION PLAN

Sheet Number: L6.02

MATCHLINE SEE SHEET L6.02



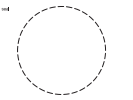
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL
	RAIN BRD 300-4PES CONTROL VALVE
	RAIN BRD 54KG QUICK COUPLER VALVE
	MATCO/CHORCA 10RT GATE VALVE
	RAIN BRD 300-4PES GLOBE MASTER VALVE 3"
	FEBCO 660 MASTER SERIES BACKFLOW PREVENTER
	RAIN BRD ESPALXD 24MNE CONTROLLER
	RAIN BRD 15PA1URF LINE SURGE PROTECTOR
	RAIN BRD FS100P FLOW SENSOR
	WATER METER 1"
	IRRIGATION MAINLINE: PVC CLASS 300 SDR 21
	PIPE SLEEVE: PVC SCHEDULE 40
	POP-UP SPRAY IRRIGATION AREAS - LAWN
	DRIP IRRIGATION AREAS - PLANTING AREAS

**DESIGN
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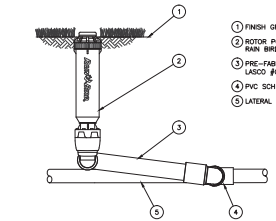
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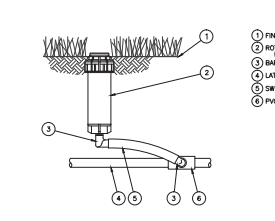
Issue Date: 12.19.2017
Project Number: 132058.07

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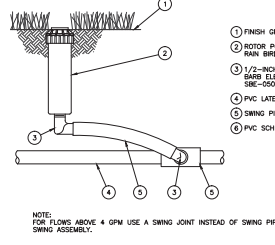
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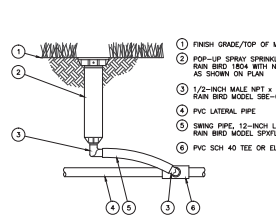
00 RAIN BIRD 8005 POP-UP SPRINKLER



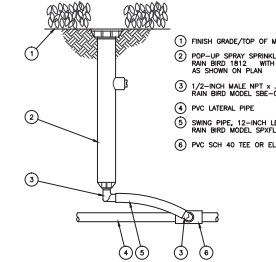
00 RAIN BIRD 5004 POP-UP SPRINKLER



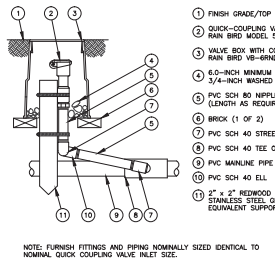
00 RAIN BIRD 3504 POP-UP SPRINKLER



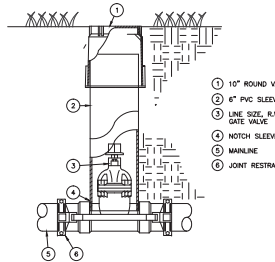
00 RAIN BIRD 1804 POP-UP SPRINKLER



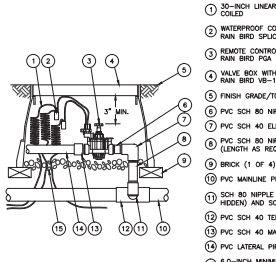
00 RAIN BIRD 1812 POP-UP SPRINKLER



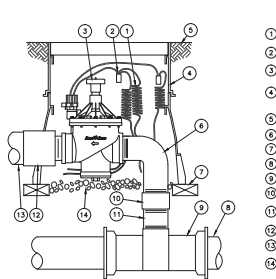
00 QUICK COUPLER VALVE MODEL 58C



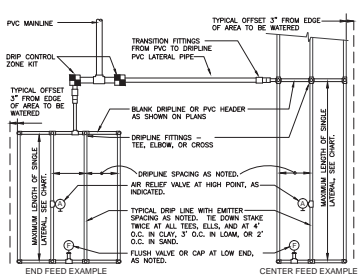
00 GASKETED DUCTILE IRON GATE VALVE



00 PGA SERIES REMOTE-CONTROL VALVE



00 RAIN BIRD 300-BPES CONTROL VALVE

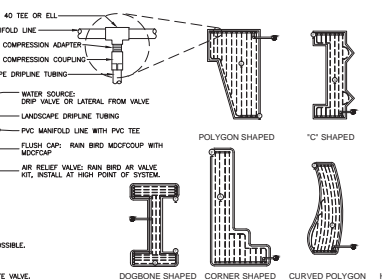


00 TYPICAL RAIN BIRD DRIPLINE REQUIREMENTS

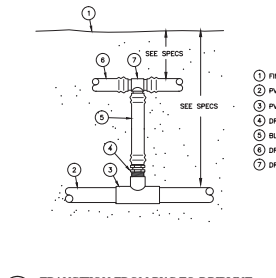
MAXIMUM LATERAL LENGTH (FEET)			
EMITTER SPACING	EMITTER FLOW RATE (GPH)		
	1" SPACING	1.5" SPACING	2" SPACING
10	125	96	175
20	250	192	350
40	500	384	700
60	750	576	1050

DRIPLINE PRECIPITATION RATES (INCH)			
EMITTER SPACING	EMITTER FLOW RATE (GPH)		
	1" SPACING	1.5" SPACING	2" SPACING
12	0.8	0.9	1.0
18	0.8	0.9	1.0
24	0.8	0.9	1.0

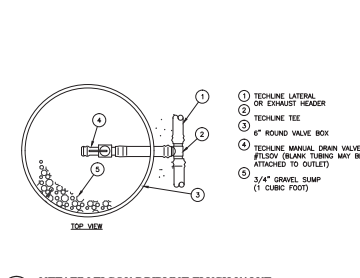
LATERAL FLOW PER 100 FT (GPM)			
EMITTER FLOW RATE (GPH)	SPACING		
	1" SPACING	1.5" SPACING	2" SPACING
0.8 GPM	1.0	1.5	2.0
1.0 GPM	1.3	2.0	2.7
1.5 GPM	2.0	3.0	4.0



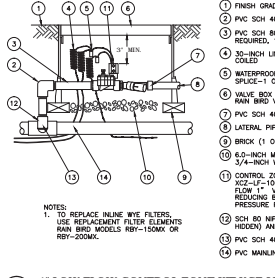
00 TREE DRIP RING LAYOUT



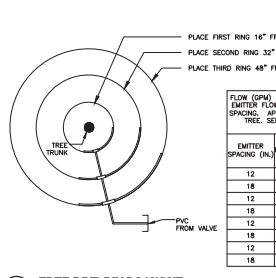
00 TRANSITION FROM PVC TO DRIPLINE



00 NETAFUN TISOV DRIPLINE FLUSH VALVE



00 1" LOW FLOW CONTROL ZONE KIT XCZ-LF-100-PRF

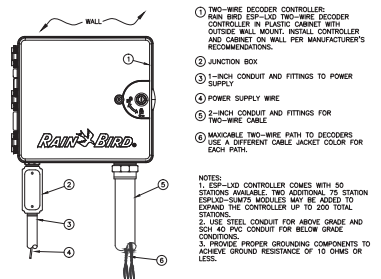


00 TREE DRIP RING LAYOUT

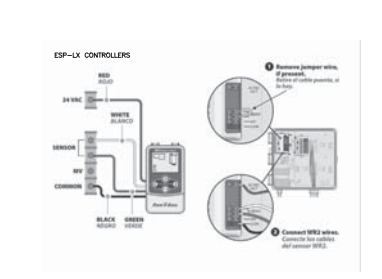
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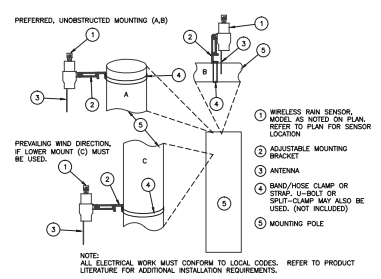




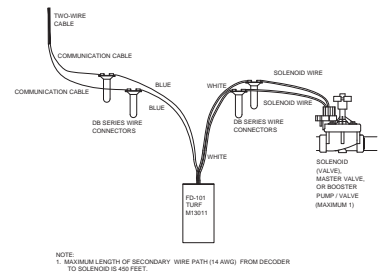
00 ESP-LXD CONTROLLER IN PLASTIC CABINET N.T.S.



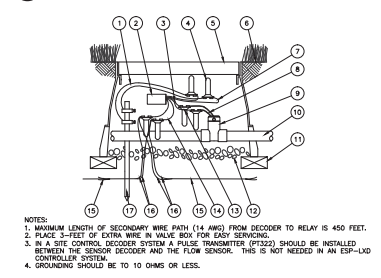
00 WIRELESS RAIN SENSOR WIRING N.T.S.



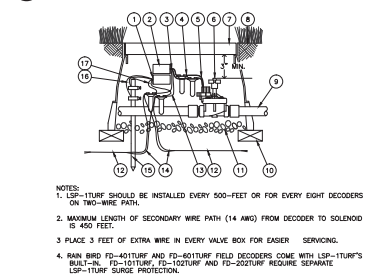
00 WIRELESS RAIN SENSOR N.T.S.



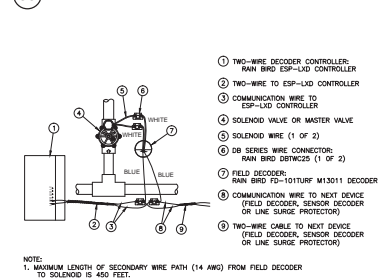
00 FD-101TURF DECODER WIRING DIAGRAM N.T.S.



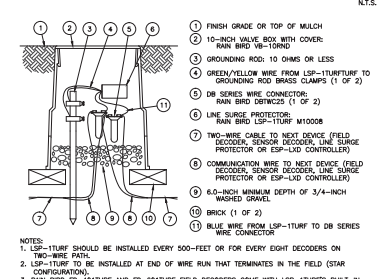
00 RAIN BIRD SD-201TURF SENSOR DECODER AND FS SERIES FLOW SENSOR N.T.S.



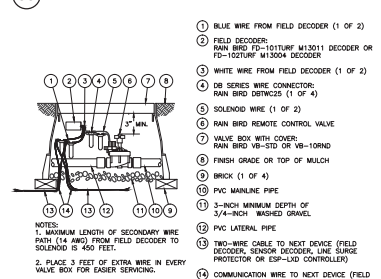
00 LSP-1TURF AND FIELD DECODER CONNECTION N.T.S.



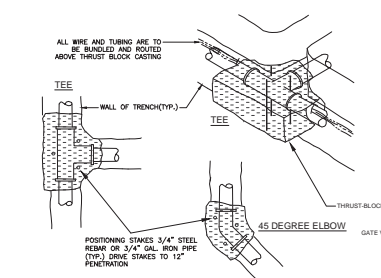
00 FD-101TURF DECODER WIRING TO VALVE AND CONTROLLER N.T.S.



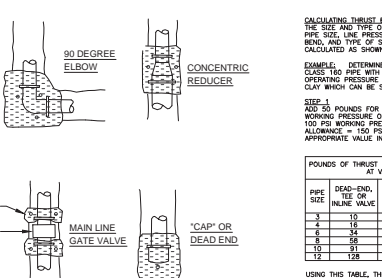
00 CONNECTING AN LSP-1TURF TO 2-WIRE PATH N.T.S.



00 CONNECTING AN FD-101 OR -102 DECODER TO VALVE N.T.S.



00 CONCRETE THRUST BLOCKS N.T.S.



00 CALCULATING THRUST BLOCK AREA N.T.S.

STEP 2: DETERMINE THE BEARING STRENGTH OF THE SOIL FROM THE TABLE BELOW:

BEARING STRENGTH OF SOILS	
SOIL TYPE	LIBS. PER SQUARE FOOT
SOUND SHALE	10000
CEMENTED GRAVEL AND SAND, DIFFICULT TO PICK UP	4000
COARSE AND FINE COMPACT SAND	3000
MEDIUM CLAY, CAN BE SPADED	2000
SOFT CLAY	1000
MUDDY SOIL	0

FROM THIS TABLE BEARING STRENGTH IS 2,000 POUNDS PER SQUARE FOOT FOR MEDIUM CLAY THAT CAN BE SPADED.

00 DETERMINE THE BEARING STRENGTH OF THE SOIL FROM THE TABLE BELOW N.T.S.

STEP 3: DIVIDE THE TOTAL THRUST OBTAINED IN STEP 1 BY THE BEARING STRENGTH OF THE SOIL OBTAINED IN STEP 2.

THE BEARING STRENGTH OF SOILS TABLE SHOWS THAT MEDIUM CLAY WHICH CAN BE SPADED HAS A BEARING STRENGTH OF 2,000 LIBS. PER SQUARE FOOT. DIVIDE THE TOTAL THRUST OF 12,450 POUNDS BY 2,000 POUNDS PER SQUARE FOOT SOIL BEARING STRENGTH. THIS GIVES THE SQUARE FEET OF THRUST BLOCK AREA NEEDED. IN THIS CASE IT IS 6.23 SQUARE FEET. FOR WHICH AN APPROXIMATE AREA OF 2.5' X 2.5', CAN BE USED.

SIDE THRUST ON CURVES AN OUTWARD PRESSURE EXISTS ON ALL DEFLECTIONS FROM THE STRAIGHT LINE. GOOD SOIL, PROPERLY TAMPED, IS SUFFICIENT TO HOLD SEE THRUST ON GRADUAL CURVES, UNLESS SOIL CONDITIONS ARE UNSTABLE. IN THAT CASE, SOME ANCHORAGE MUST BE PROVIDED ON EACH SIDE OF THE JOINT, BUT DO NOT THRUST BLOCK THE JOINT ITSELF.

CONSTRUCTION OF THRUST BLOCKS: THRUST BLOCKS SHOULD BE CONSTRUCTED SO THAT THEIR BEARING SURFACE IS IN DIRECT LINE WITH THE MAJOR FORCE ENDED BY THE PIPE OR FITTING. THE BEARING SURFACE SHOULD BE UNDISTURBED. ONLY THE SIMPLEST OF FORMS IS REQUIRED. USE CONCRETE, FLUID ENOUGH SO THAT IT CAN BE WORKED UNDER THE FITTING, AROUND AND UP TO THE TOP OF THE LINE. KEEP ALL JOINTS FREE FROM CONCRETE.

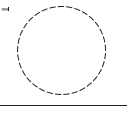
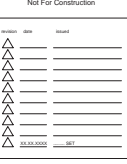
NOTE: POWDER CONCRETE THRUST BLOCK TO BE CONSTRUCTED OF 2000 PSI RATED CONCRETE.

- 1 PART CEMENT
- 2 PARTS WASHED SAND
- 3 PARTS BRICKEL

ALL THRUST BLOCKS TO BEAR AGAINST FIRM UNDISTURBED EARTH.

00 CONSTRUCTION OF THRUST BLOCKS N.T.S.

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00 DESIGN DEVELOPMENT SUBMITTAL N.T.S.