

### SITE KEYNOTES

- 1 NEW LANDSCAPE AREA.
- 2 NEW CMU WALL
- 3 NEW ELECTRICAL TRANSFORMER.
- 4 EXISTING DRIVEWAY TO REMAIN. VERIFY LOCATION.
- 5 NEW PARKING ENTRANCE SIGN - SEE DETAIL 9/A1.1 FOR MORE INFORMATION
- 6 NEW 6"Ø PIPE BOLLARDS- SEE DETAIL 10/A1.1
- 7 6" HIGH x 6" WIDE PLANTER CONCRETE CURB- SEE 6A/1.1
- 8 NEW CONCRETE SLAB. SLOPE 2% MAX AT ALL DIRECTIONS.
- 9 MONUMENT SIGN

### PLANTING NOTES

1. WORK SHALL MEET THE REQUIREMENTS OF ALL LOCAL, STATE, AND FEDERAL GOVERNING CODES, ORDINANCES, LAWS, REGULATIONS, SAFETY ORDERS AND DIRECTIVES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF/HERSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES.
3. CONTRACTOR MUST CHECK ALL SITE CONDITIONS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
4. ALL PLANT QUANTITIES ARE IDENTIFIED BY TYPICAL SYMBOLS. REFER TO PLANT LEGEND FOR QUANTITIES. PLANT QUANTITIES ARE APPROXIMATE AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM ALL PLANT QUANTITIES PRIOR TO BIDDING. IN THE EVENT OF DISCREPANCIES IN PLANT COUNT, QUANTITIES INDICATED BY PLANT SYMBOLS SHALL PREVAIL.
5. CONTRACTOR SHALL NOTIFY OWNER'S AUTHORIZED REPRESENTATIVE IF, PRIOR TO BIDDING, ANY SPECIFIED PLANT MATERIAL IS FOUND TO BE UNAVAILABLE.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FURNISH PLANT MATERIAL FREE OF PESTS OR DISEASE.
7. ALL PLANT MATERIAL DELIVERED TO THE SITE SHALL BE APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION.
8. ALL PLANT MATERIAL SHALL BE SET OUT AS SHOWN ON PLAN. FINAL LOCATION OF ALL PLANT MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
9. ALL AREAS LESS THAN 4:1 SLOPE SHALL BE COVERED WITH 3" ORGANIC MULCH (SPEC MULCH BY RECYCLED WOOD PRODUCTS OR APPROVED EQUAL). SUBMIT 1 CU. FT. SAMPLE PRIOR TO APPLICATION. KEEP MULCH 6" CLEAR FROM PLANT CROWN OR TREE TRUNK. JUTE MATTING SHALL BE INSTALLED ON SLOPES 3:1 OR GREATER. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
10. MINIMUM 2 SOIL SAMPLES SHALL BE TAKEN BY CONTRACTOR AFTER GRADING OPERATIONS ARE COMPLETED FOR SOIL FERTILITY AND AGRICULTURAL SUITABILITY TESTING AND RECOMMENDATIONS BY AN APPROVED LABORATORY. SEE SPECIFICATIONS FOR SOIL AMENDMENTS SPECIFIED FOR BIDDING PURPOSES ONLY. SUBMIT SOIL REPORT TO OWNER AND PROJECT ARCHITECT. SOIL AMENDMENTS SHALL BE AS PER RECOMMENDATIONS IN SOILS REPORT.
11. CONTRACTOR SHALL NOTIFY OWNER'S AUTHORIZED REPRESENTATIVE 48 HOURS PRIOR TO COMMENCEMENT OF WORK TO COORDINATE OPERATIONS.
12. THE OWNER'S AUTHORIZED REPRESENTATIVE SHALL BE THE SOLE JUDGE AS TO WHEN THE MAINTENANCE PERIOD BEGINS.
13. ALL TREES, STUMPS, ROCKS AND ASSOCIATED VEGETATION AND SOILS RESULTING PRIMARILY FROM LAND CLEARING SHALL BE REUSED OR RECYCLED AS REQUIRED BY CALGREEN 5.73.8.3 EXCEPTION: REUSE EITHER ON- OR OFF-SITE, OF VEGETATION OR SOIL CONTAMINATED BY DISEASE OR PEST INFESTATION.
14. REMOVE AND REPLACE MINIMUM 3" OF SOIL IN PLANTING AREAS PREVIOUSLY PAVED OR AREAS WITH HIGHLY COMPACTED SOILS.

BOTANICAL NAME (ABBREVIATED)  
 PLANT COUNT SF 100 SRE GEN  
 PLANT REF. A-1

### PLANT LEGEND

| SYMBOL                         | BOTANICAL NAME                 | COMMON NAME          | QTY.              | SIZE                       | DETAIL REFERENCE             | WUCOLS |
|--------------------------------|--------------------------------|----------------------|-------------------|----------------------------|------------------------------|--------|
| <b>TREES</b>                   |                                |                      |                   |                            |                              |        |
| T-1                            | GEIJERA PARVIFLORA             | AUSTRALIAN WILLOW    | 3                 | 20'-30' H/W<br>15'-20' H/W | DETAIL - A, SHEET LP-1.0     | L      |
| <b>SHRUBS AND GROUNDCOVERS</b> |                                |                      |                   |                            |                              |        |
| S-1                            | ANIGOZANTHOS 'ORANGE CROSS'    | ORANGE KANGAROO PAW  | 38                | 5 GAL.<br>@ 3" O.C.        | DETAIL - B & C, SHEET LP-1.0 | M      |
| S-2                            | DIANELLA REVOLUTA 'LITTLE REV' | LITTLE REV FLAX LILY | 285 S.F.<br>(146) | 5 GAL.<br>@ 18" O.C.       | DETAIL - B & C, SHEET LP-1.0 | L      |

# LR/A

## LR/ARCHITECTURE

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Planning  
Interior Design  
Construction Management

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ARCH/CONSULTANT:

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PROJECT **KANSAS CENTER  
NEW COMMERCIAL/RETAIL  
BUILDING**  
 1057 W. MANCHESTER AVE.  
 LOS ANGELES, CA. 90044

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CLIENT **SASSONY  
DEVELOPMENT GROUP**  
 4312 WOODMAN AVENUE  
 SUITE 250, SHERMAN OAKS, CA. 91423

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CAD FILE  
 15.396 - L-2.0 PLANTING PLAN

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JOB NO.  
 15.396.00

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DATE  
 9/28/16

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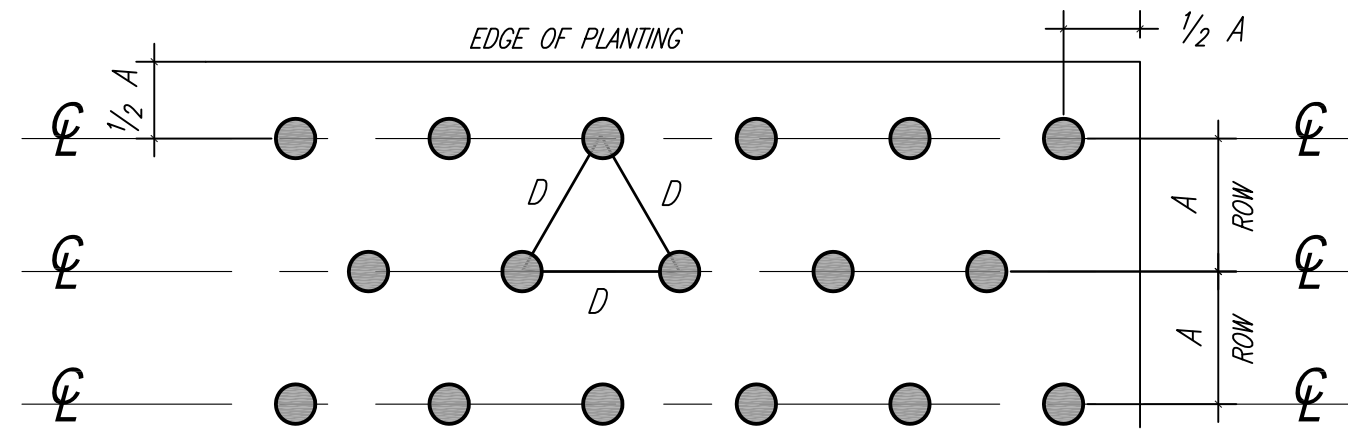
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TITLE  
**PLANTING PLAN**

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SHEET  
**L-2.0**

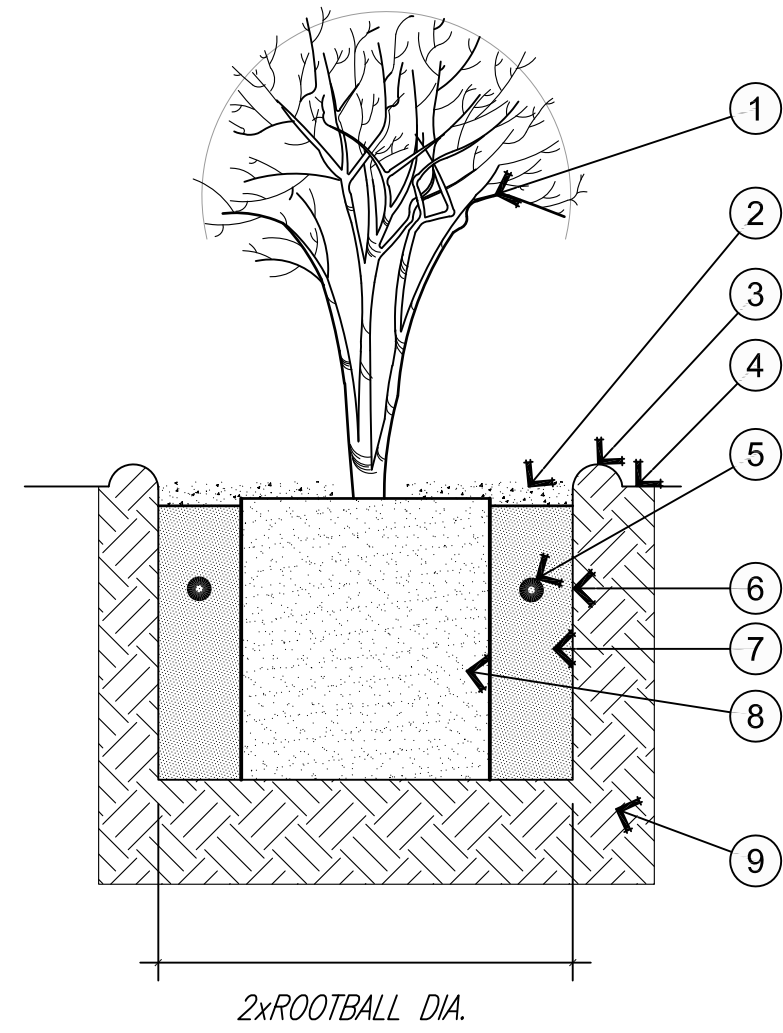


| SPACING O.C. "D" | ROW "A" | NO. OF PLANTS / 100 S.F. |
|------------------|---------|--------------------------|
| 6" O.C.          | 5"      | 462                      |
| 8" O.C.          | 7"      | 260                      |
| 9" O.C.          | 8"      | 215                      |
| 10" O.C.         | 8-1/2"  | 166                      |
| 12" O.C.         | 10-1/2" | 115                      |
| 15" O.C.         | 13"     | 74                       |
| 18" O.C.         | 15-1/2" | 51                       |
| 24" O.C.         | 21"     | 29                       |
| 30" O.C.         | 26"     | 19                       |
| 36" O.C.         | 31"     | 12                       |
| 48" (4') O.C.    | 41-1/2" | 7                        |
| 60" (5') O.C.    | 52"     | 5                        |
| 72" (6') O.C.    | 62"     | 3                        |
| 84" (8') O.C.    | 73"     | 2                        |
| 120" (10') O.C.  | 104"    | 1                        |

NOTES:  
D = ON CENTER (O.C.)  
SPACING BETWEEN PLANTS AS SPECIFIED IN PLANTING LEGEND  
A = DISTANCE BETWEEN ROW OF PLANTS

GROUND COVER SPACING (TRIANGULAR)  
SCALE: NTS

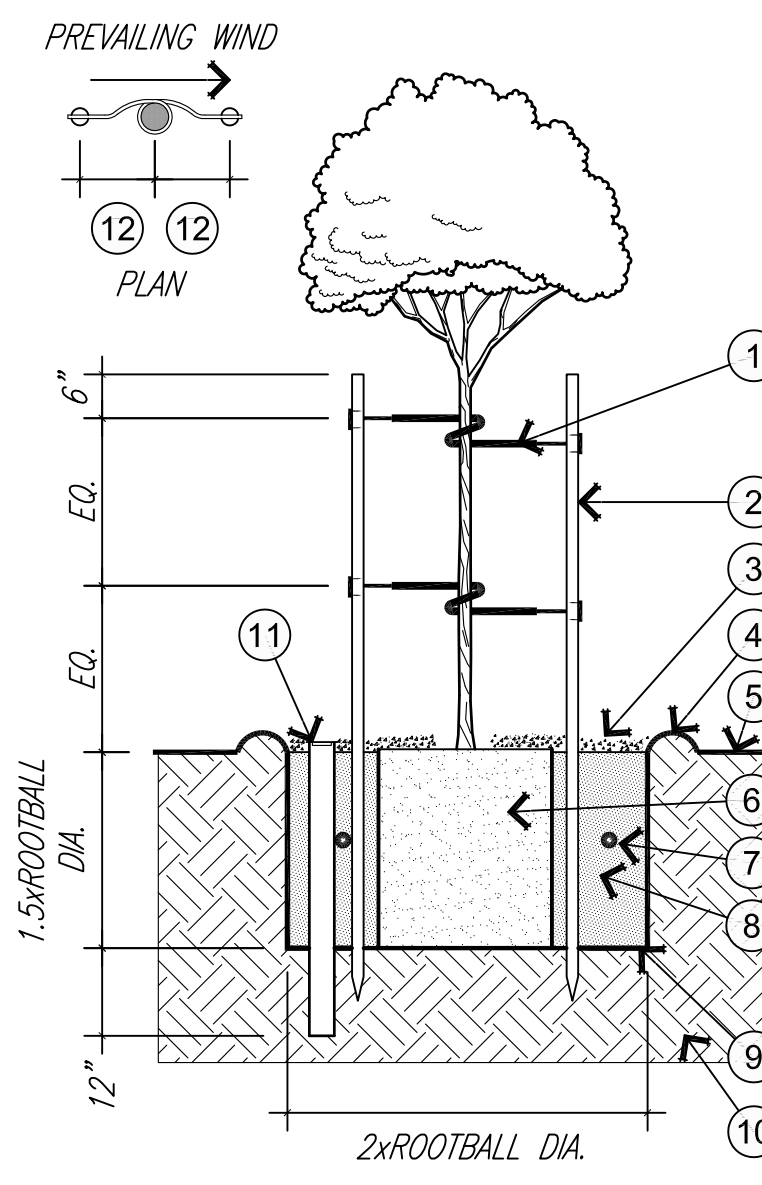
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- Detail Legend**
- SHRUB, 1 OR 5 GAL
  - KEEP 2" LAYER OF ORGANIC MULCH 6" CLEAR FROM PLANT CROWN.
  - FLOOD & SETTLE 3" DEEP WATER BASIN TO PLUMB PLANT STEM (TO GRADE) AND SET GRADE OF ROOTBALL
  - FINISH GRADE
  - FERTILIZER TABLET, SEE SPECS.
  - SCARIFY ALL SIDES OF PLANTING PIT
  - SEE PLANTING SPEC. FOR AMMENDED BACKFILL MIX
  - PLANT ROOTBALL 1/2" ABOVE FINISH GRADE & LOOSEN ROOTS IF NECESSARY.
  - SITE SOIL, UNDISTURBED

SHRUB PLANTING  
SCALE: NTS

B



- Detail Legend**
- TREE SUPPORT, MFG. "VIT" TWIST BRACE OR APPROVED EQUAL.
  - PLUMB LODGEPOLE TREE STAKE, 2"x10'-0".
  - KEEP 2" THICK LAYER OF ORGANIC MULCH 6" CLEAR OF TREE TRUNK
  - FLOOD 3" DEEP WATER BASIN TO PLUMB TREE TRUNK & SET GRADE OF ROOTBALL
  - FINISH GRADE
  - ROOTBALL, INSTALL 1" ABOVE GRADE.
  - FERTILIZER TABLET, SEE SPECS.
  - SEE SPECS FOR AMMENDED BACKFILL MIX.
  - SCARIFY PLANTING PIT EDGE
  - SITE SOIL, UNDISTURBED
  - FILL 3" PERF. PIPE W/ 3/4" CRUSHED ROCK CAP W/ ATRIUM GRATE, FOR 24" BOX & LARGER, UNLESS INDICATED OTHERWISE BY OWNER'S (OR CITY'S) REPRESENTATIVE
  - 12" FOR MDL TB24 FOR 15 GAL TREE OR 18" FOR MDL TB36 FOR 24" TO 36" BOX
- NOTE: MIN. (2) TIES [TOP & BOTTOM] REQUIRED. USE 3RD TIE WHEN NECESSARY TO HOLD TREE IN UPRIGHT POSITION.

TREE PLANTING W/VERTICAL DRAIN  
SCALE: NTS

A

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LR/ARCHITECTURE

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15.396 - L-2.1 PLANTING DETAILS

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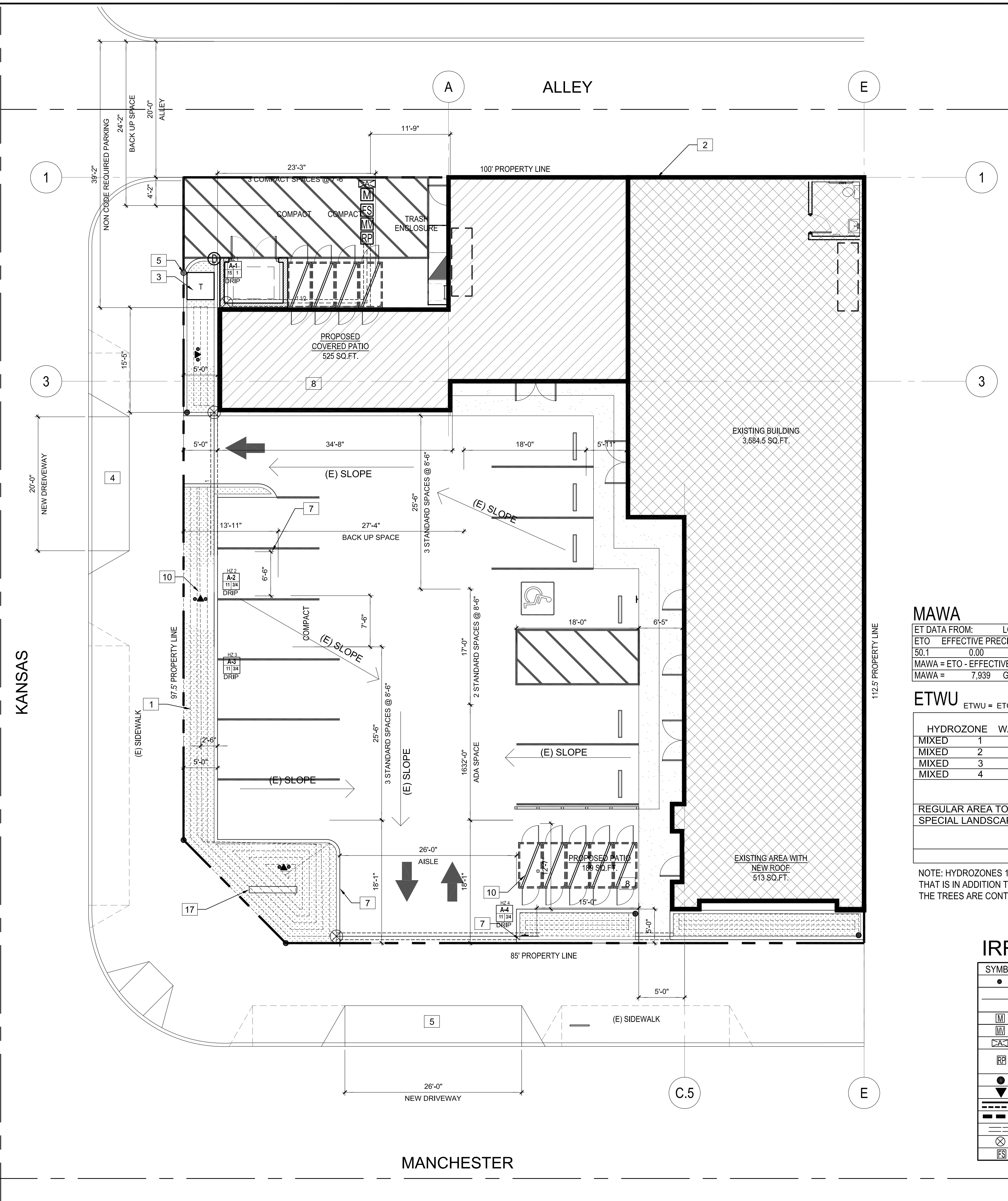
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TITLE  
**PLANTING DETAILS**

SHEET  
**L-2.1**





### SITE KEYNOTES

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- 2 NEW CMU WALL
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- 5 NEW PARKING ENTRANCE SIGN - SEE DETAIL 9/A1.1 FOR MORE INFORMATION
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- 7 6" HIGH x 6" WIDE PLANTER CONCRETE CURB- SEE 6A/1.1
- 8 NEW CONCRETE SLAB. SLOPE 2% MAX AT ALL DIRECTIONS.
- 9 MONUMENT SIGN
- 10 NEW INFILTRATION TRENCH (SEE CIVIL)

### IRRIGATION NOTES

- 1 EXISTING UTILITIES AND CONDITIONS: PRIOR TO CUTTING INTO THE SOIL OR PAVING, LOCATE ALL CABLES, CONDUITS, AND OTHER UTILITIES COMMONLY FOUND UNDERGROUND, AND TAKE PROPER PRECAUTIONS NOT TO DAMAGE OR DISTURB SUCH IMPROVEMENTS. IF A CONFLICT EXISTS BETWEEN SUCH OBSTACLES AND THE PROPOSED WORK, PROMPTLY NOTIFY THE CITY OF LOS ANGELES. PROCEED IN THE SAME MANNER IF ROCK LAYERS OR ANY OTHER CONDITIONS ENCOUNTERED UNDERGROUND MAKE CHANGES ADVISABLE.
- 2 THE INSTALLATION OF THE IRRIGATION SYSTEM SHALL CONFORM TO ALL APPLICABLE REGULATIONS AND CODES.
- 3 THE IRRIGATION SYSTEM IS SHOWN DIAGRAMMATICALLY FOR CLARITY. LOCATE ALL PIPING, EQUIPMENT AND APPURTENANCES WITHIN THE PLANTING AREAS SHOWN UNLESS NOTED OR DIRECTED OTHERWISE. LOCATE ALL VALVES AND VALVE BOXES 6" MIN., 12" MAX FROM ADJACENT PAVING. LOCATE QUICK COUPLER VALVES & PRESSURE MAIN LINES WITHIN 18" OF EDGE OF PLANTING AREAS @ ADJACENT PAVING.
- 4 ALL PRESSURE PIPE AND WIRING UNDER PAVING SHALL BE SLEEVED. SLEEVE TO BE 2X THE DIAMETER OF CARRYING PIPE. ADD TO SIZE IF CARRYING WIRING IN SAME SLEEVE. COORDINATE SLEEVE INSTALLATION WITH OTHER TRADES TO ENSURE PROPER AND TIMELY INSTALLATION IN LOCATIONS REQUIRED. PIPES MAY BE SLEEVED TOGETHER IF AN EQUIVALENT INCREASE IN SLEEVE SIZE IS MADE.
- 5 USE TWO WRAPS OF 3/4" TEFLON TAPE OR TEFLON PIPE THREAD PASTE ON ALL THREADED CONNECTIONS.
- 6 DURING INSTALLATION ALL EXPOSED PIPE AND JOINTS SHALL BE SHADED WHENEVER TEMPERATURES EXCEED 100 DEGREES FARENHEIT.
- 7 PROVIDE PULL BOXES FOR CONTROL WIRING AT ALL CHANGES OF DIRECTION AND WHERE RUNS EXCEED 200 FEET. SPLICES SHALL BE MADE ONLY IN PULL BOXES OR VALVE CONTROL BOXES.
- 8 SYSTEM DESIGN IS BASED ON STATIC PRESSURE OF 84 PSI. REGULATED TO 60 PSI.
- 9 WIRING IS BASED ON THE USE OF TWO 24 VOLT DC REMOTE CONTROL VALVES OPERATING AT ONE TIME. MAXIMUM FLOW IS 25 GPM.
- 10 UNLESS NOTED OTHERWISE ON PLANS, ALL LATERAL END RUNS ARE TO BE 3/4 INCH SIZE.
- 11 CONTRACTOR SHALL SECURE AND COORDINATE ALL NECESSARY CONNECTIONS FOR 120 VOLT AC 60 HZ CONTINUOUSLY HOT ELECTRICAL SERVICE TO IRRIGATION CONTROLLER LOCATIONS. CONTROLLER IS TO BE MOUNTED AS DETAILED. COORDINATE ELECTRICAL WORK WITH ELECTRICAL CONTRACTOR.
- 12 SET UP CONTROLLER TO ACHIEVE OPTIMUM WATERING BASED ON WATER USE CALCULATIONS. CHECK IRRIGATION TIMING AND DAYS OF OPERATION MONTHLY TO MATCH WATERING SCHEDULES WITH EVAPOTRANSPIRATION CONDITIONS.
- 13 ALL CONTROL WIRING TO BE 14 GAUGE MINIMUM. COMMON WIRES TO BE WHITE WITH DIFFERENT COLOR STRIPE FOR EACH CONTROL VALVE. COMMON CONTROL WIRES TO BE SOLID COLOR. RUN TWO PAIR WIRES TO END RUNS FROM CONTROLLER, SOLID RED COLOR AND COIL IN LAST VALVE BOX ON RUN.
- 14 ALL REMOTE CONTROL VALVES, QUICK COUPLERS, CONTROL WIRE AND CABLE PULL POINTS ARE TO BE INSTALLED IN HDPE VALVE BOXES WITH LOCKING COVERS AS SHOWN ON DETAILS.
- 15 END RUNS OF ALL DRIP LINES ARE TO INCLUDE A FLUSH VALVE ASSEMBLY.
- 16 VALVE BOXES TO BE NDS-PRO WITH LOCKING COVER & ADDED BOLT. COLOR PER WATER SOURCE TYPE.
- 17 MAINLINE PRESSURE TEST TO BE RUN DURING WORKING HOURS OF 6:30 AM TO 12PM, MONDAY THRU FRIDAY. TEST FOR THREE HOURS AT 150 PSI BEFORE ANY VALVES OR QUICK COUPLERS ARE INSTALLED.

| CONTROLLER APPROXIMATE GPM | HZ1 HYDROZONE | SEQUENCE NUMBER | VALVE SIZE, INCHES |
|----------------------------|---------------|-----------------|--------------------|
| 12                         | A-1           | 1               | 1                  |

| CONDUIT SIZE | NO. WIRES (#14) |
|--------------|-----------------|
| 1/2          | 10              |
| 3/4          | 18              |
| 1            | 32              |
| 1 1/4        | 60              |
| 1 1/2        | 80              |
| 2            | 130             |

### MAWA

ET DATA FROM: LOS ANGELES

| ETO  | EFFECTIVE PRECIP | IN TO GAL | ET ADJ FACTOR | TOTAL AREA | SPECIAL AREAS |
|------|------------------|-----------|---------------|------------|---------------|
| 50.1 | 0.00             | 0.620     | 0.45          | 568        | 0             |

MAWA = ETO - EFFECTIVE RAIN x IN TO GAL x (ET ADJ FACTOR x TOTAL AREA) + (SPECIAL AREA x 0.3)

MAWA = 7,939 GAL/YEAR (253 100cf units)

### ETWU

ETWU = ETO - EFFECTIVE RAIN x IN TO GAL x (PLANT FACTOR x AREA) / (IRRIG EFFICIENCY)

| HYDROZONE | WUCOLS | WATER USE | PLANT FACTOR (PF) | SQ FT | AREA (HA) | PF x HA | ETWU |
|-----------|--------|-----------|-------------------|-------|-----------|---------|------|
| MIXED 1   | LOW    | 0.45      | 74                | 33    | 827       |         |      |
| MIXED 2   | LOW    | 0.45      | 48                | 21    | 537       |         |      |
| MIXED 3   | LOW    | 0.45      | 398               | 179   | 4,450     |         |      |
| MIXED 4   | LOW    | 0.30      | 48                | 14    | 358       |         |      |

|                                    |     |            |         |
|------------------------------------|-----|------------|---------|
| REGULAR AREA TOTAL SQ FT           | 568 | 247        | 6,172   |
| SPECIAL LANDSCAPE AREA TOTAL SQ FT | -   | -          | -       |
|                                    |     | TOTAL ETWU | 6,172   |
|                                    |     | MAWA       | 7,939   |
|                                    |     | DIFFERENCE | (1,767) |

NOTE: HYDROZONES 1, 2 AND 3 FOR TREES REFLECT ADDITIONAL WATER FOR DEEPER ROOTING THAT IS IN ADDITION TO THE WATER RECEIVED FROM ZONE 1 AS A MIXED PLANTING AREA THAT THE TREES ARE CONTAINED WITHIN.

### IRRIGATION LEGEND

| SYMBOL | DESCRIPTION  | PSI | GPM   | RAD | MFGR/MODEL  |
|--------|--|-----|-------|-----|---|
| •      | POP-UP BUBBLER HEAD (2 PER TREE)   | 30  | 0.5   | --  | RAIN BIRD 1402 W/ PA-80 ADAPTER IN 1806-SAM-PRS BODY            |
| ---    | SUB SURFACE DRIPLINE, 18" SPACING, 18" O.C.  | 30  | 0.015 | 18" | RAIN BIRD XFS-09-18   |
| M      | WATER METER  |     |       |     | PER CITY STANDARDS  |
| M      | MASTER VALVE   |     |       |     | NETAFIM BRONZE GLOBE THREADED, NORMALLY OPEN.                   |
| CA     | AUTOMATIC IRRIGATION CONTROLLER W/ FLOW CONTROL, # STATIONS PER PLANS              |     |       |     | RAIN MASTER EAGLE PLUS1 W/ PRO MAX CARTRIDGE*                   |
| RP     | REDUCED PRESSURE BACKFLOW PREVENTER IN ENCLOSURE SET PRESSURE REGULATOR TO 60 PSI. |     |       |     | FEBCO 825Y W/ WILKINS 500Y STRAINER IN GUARDSHACK GS3 ENCLOSURE |
| ●      | DRIP LINE FLUSH POINT  |     |       |     | RAIN BIRD EFB-CP SERIES   |
| ▼      | REMOTE CONTROL VALVE FOR DRIP SYSTEMS  |     |       |     | RAIN BIRD XCZ-100-PRB-LC  |
| ---    | LATERAL (NON-PRESSURE) PIPING, SIZE AS SHOWN                                       |     |       |     | <=2" SCH 40, >2" CL 315   |
| ---    | MAIN LINE (PRESSURE) PIPING, SIZE AS SHOWN   |     |       |     | <=2" SCH 40, >2" CL 315   |
| ---    | SLEEVE, PER PLAN, 2x DIAM OF CARRYING PIPE, MIN.                                   |     |       |     | SCH 40  |
| ⊗      | SHUT-OFF VALVE, LINE SIZE, W/ BRONZE CROSS HANDLE                                  |     |       |     | NIBCO T-580   |
| FS     | FLOW SENSOR (HYDROMETER)   |     |       |     | NETAFIM LHM15TG1-MEL-NO   |

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CAD FILE \_\_\_\_\_

15.396 - L-1.0 IRRIGATION PLAN

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JOB NO. \_\_\_\_\_

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SCALE \_\_\_\_\_

AS SHOWN

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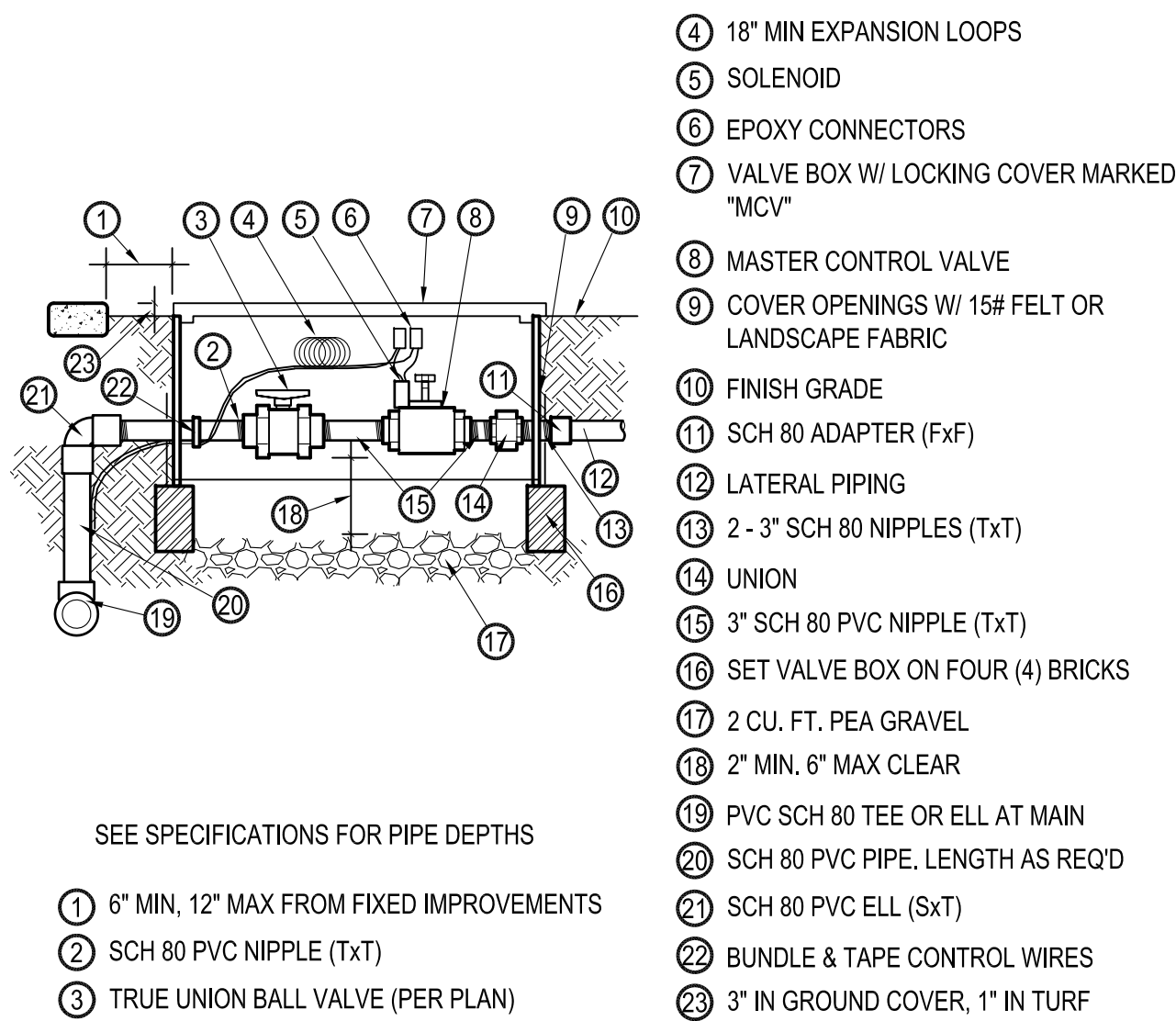
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## IRRIGATION PLAN

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SHEET \_\_\_\_\_

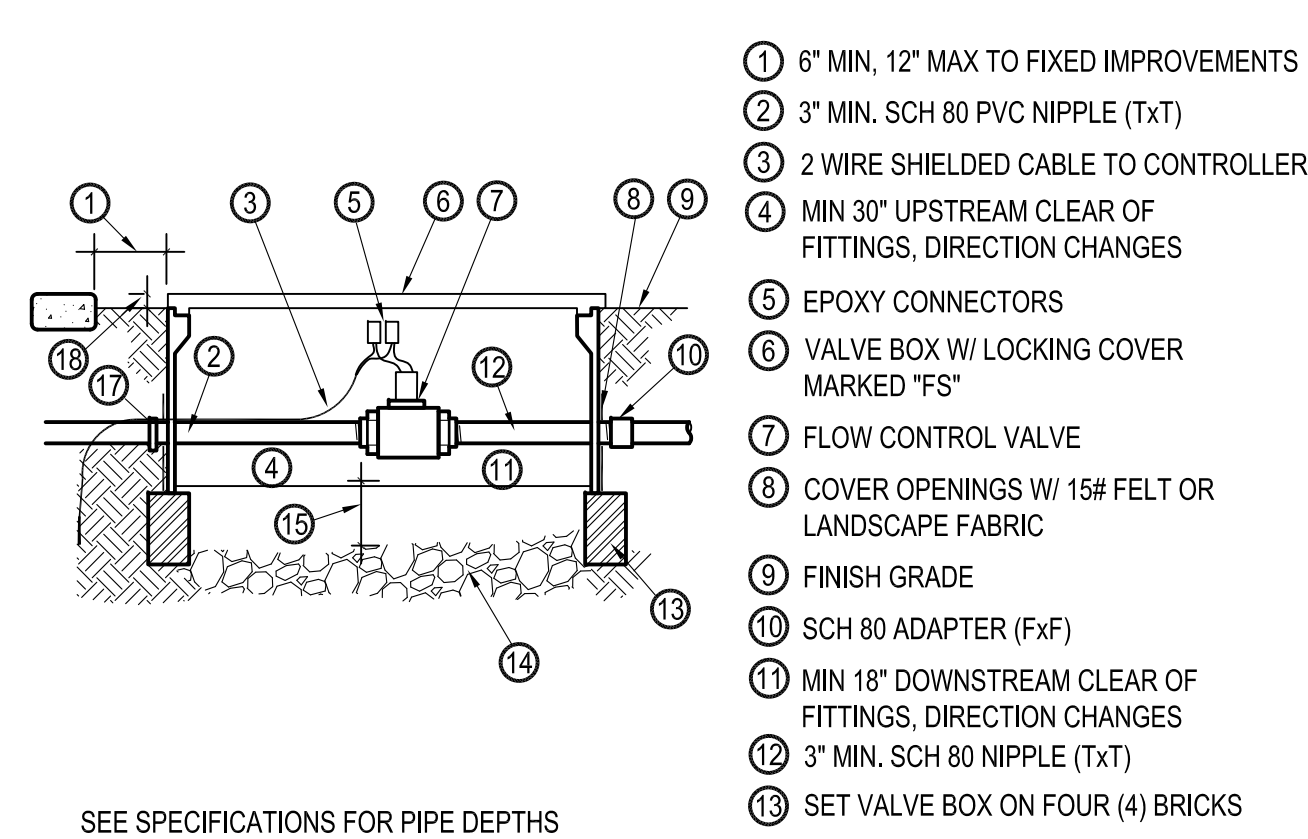
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- ④ 18" MIN EXPANSION LOOPS
- ⑤ SOLENOID
- ⑥ EPOXY CONNECTORS
- ⑦ VALVE BOX W/ LOCKING COVER MARKED "MCV"
- ⑧ MASTER CONTROL VALVE
- ⑨ COVER OPENINGS W/ 15# FELT OR LANDSCAPE FABRIC
- ⑩ FINISH GRADE
- ⑪ SCH 80 ADAPTER (FxF)
- ⑫ LATERAL PIPING
- ⑬ 2 - 3" SCH 80 NIPPLES (TxT)
- ⑭ UNION
- ⑮ 3" SCH 80 PVC NIPPLE (TxT)
- ⑯ SET VALVE BOX ON FOUR (4) BRICKS
- ⑰ 2 CU. FT. PEA GRAVEL
- ⑱ 2" MIN. 6" MAX CLEAR
- ⑲ PVC SCH 80 TEE OR ELL AT MAIN
- ⑳ SCH 80 PVC PIPE, LENGTH AS REQ'D
- ㉑ SCH 80 PVC ELL (SxT)
- ㉒ BUNDLE & TAPE CONTROL WIRES
- ㉓ 3" IN GROUND COVER, 1" IN TURF

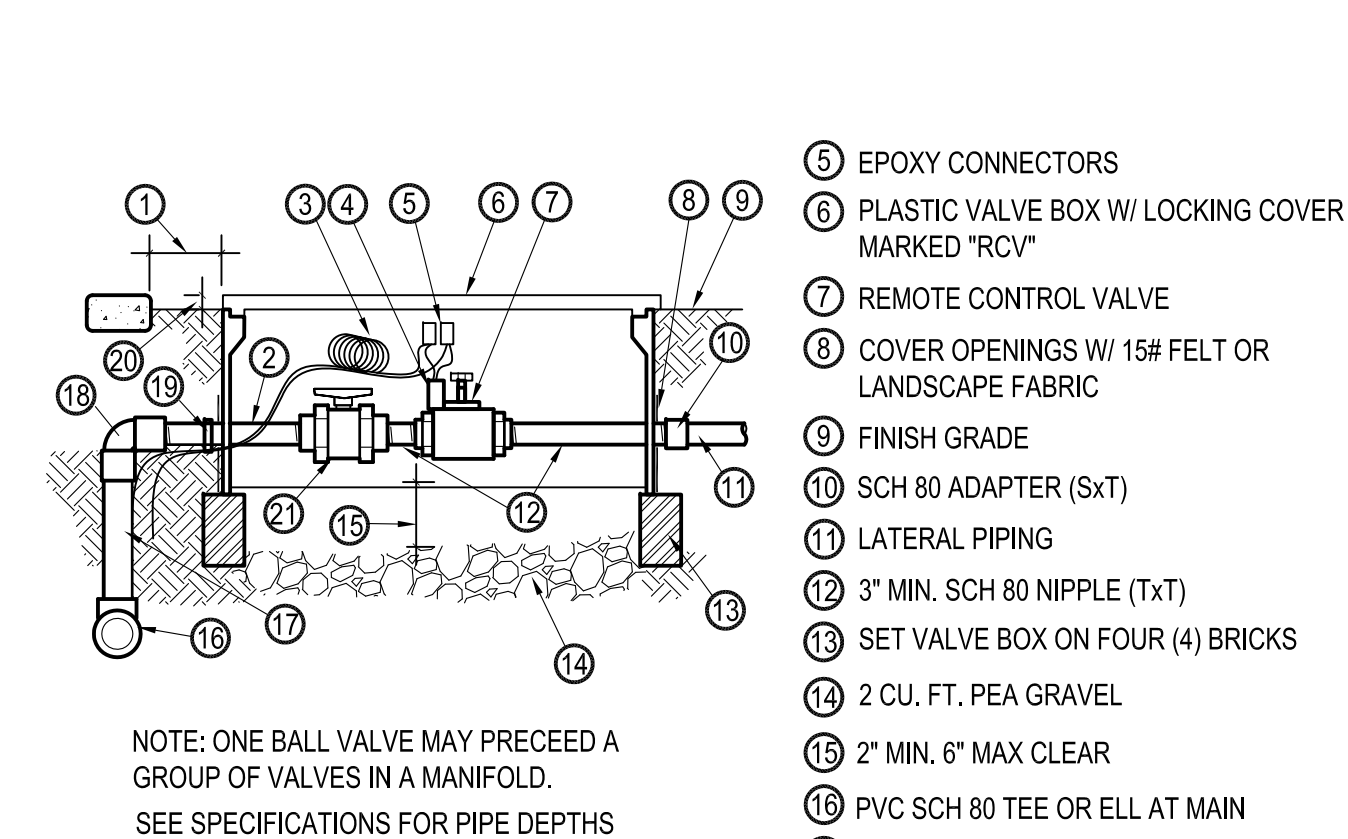
SEE SPECIFICATIONS FOR PIPE DEPTHS

- ① 6" MIN, 12" MAX FROM FIXED IMPROVEMENTS
- ② SCH 80 PVC NIPPLE (TxT)
- ③ TRUE UNION BALL VALVE (PER PLAN)



- ① 6" MIN, 12" MAX TO FIXED IMPROVEMENTS
- ② 3" MIN. SCH 80 PVC NIPPLE (TxT)
- ③ 2 WIRE SHIELDED CABLE TO CONTROLLER
- ④ MIN 30" UPSTREAM CLEAR OF FITTINGS, DIRECTION CHANGES
- ⑤ EPOXY CONNECTORS
- ⑥ VALVE BOX W/ LOCKING COVER MARKED "FS"
- ⑦ FLOW CONTROL VALVE
- ⑧ COVER OPENINGS W/ 15# FELT OR LANDSCAPE FABRIC
- ⑨ FINISH GRADE
- ⑩ SCH 80 ADAPTER (FxF)
- ⑪ MIN 18" DOWNSTREAM CLEAR OF FITTINGS, DIRECTION CHANGES
- ⑫ 3" MIN. SCH 80 NIPPLE (TxT)
- ⑬ SET VALVE BOX ON FOUR (4) BRICKS
- ⑭ 2 CU. FT. 3/4" GRAVEL
- ⑮ 2" MIN. 6" MAX CLEAR
- ⑯ PRESSURE MAINLINE
- ⑰ BUNDLE & TAPE TO PIPE
- ⑱ 2" IN GROUND COVER, 1" IN TURF

SEE SPECIFICATIONS FOR PIPE DEPTHS

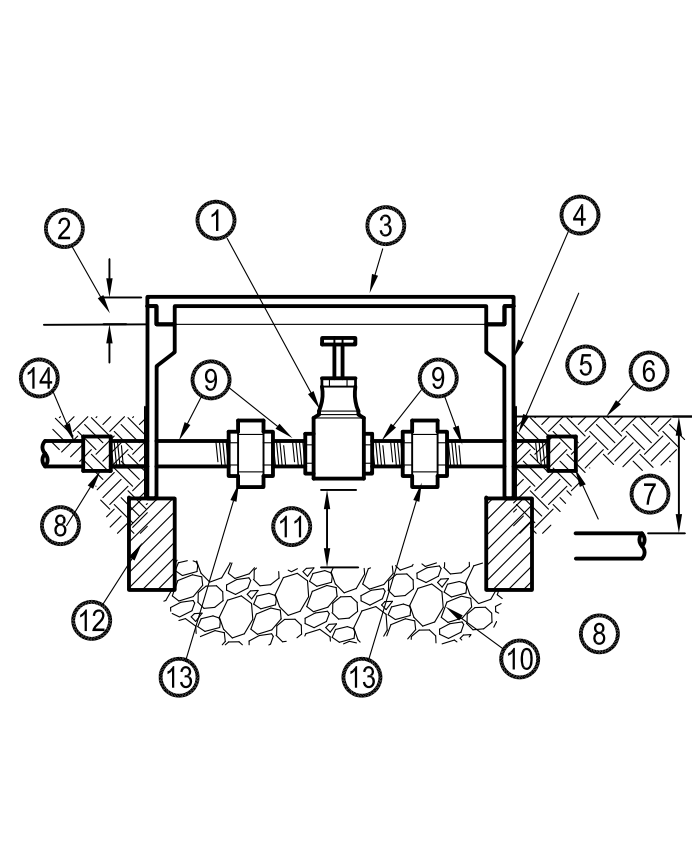


- ⑤ EPOXY CONNECTORS
- ⑥ PLASTIC VALVE BOX W/ LOCKING COVER MARKED "RCV"
- ⑦ REMOTE CONTROL VALVE
- ⑧ COVER OPENINGS W/ 15# FELT OR LANDSCAPE FABRIC
- ⑨ FINISH GRADE
- ⑩ SCH 80 ADAPTER (SxT)
- ⑪ LATERAL PIPING
- ⑫ 3" MIN. SCH 80 NIPPLE (TxT)
- ⑬ SET VALVE BOX ON FOUR (4) BRICKS
- ⑭ 2 CU. FT. PEA GRAVEL
- ⑮ 2" MIN. 6" MAX CLEAR
- ⑯ PVC SCH 80 TEE OR ELL AT MAIN
- ⑰ SCH 80 PVC PIPE, LENGTH AS REQ'D
- ⑱ SCH 80 PVC ELL (SxT)
- ⑲ BUNDLE & TAPE CONTROL WIRES TO PIPE
- ㉑ 2" IN GROUND COVER, 1" IN TURF
- ㉒ TRUE UNION BALL VALVE

NOTE: ONE BALL VALVE MAY PRECEED A GROUP OF VALVES IN A MANIFOLD. SEE SPECIFICATIONS FOR PIPE DEPTHS

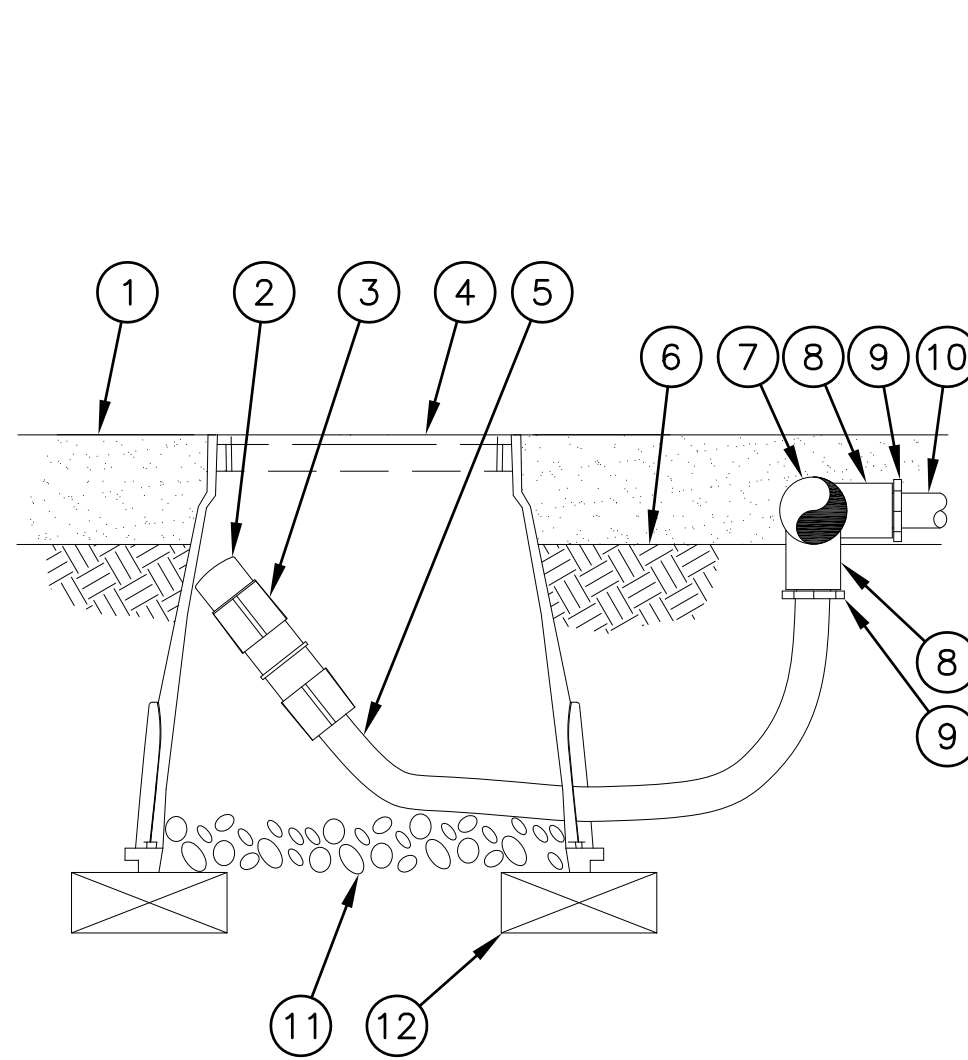
- ① 6" MIN, 12" MAX FROM FIXED IMPROVEMENTS
- ② 3" MIN. SCH 80 PVC NIPPLE (TxT)
- ③ 18" MIN EXPANSION LOOPS
- ④ SOLENOID

**MASTER CONTROL VALVE**  
SCALE: NTS **A**



- ① GATE VALVE W/ CROSS HANDLE, LINE SIZE
- ② 1" IN GROUND COVER, FLUSH IN TURF
- ③ PLASTIC VALVE BOX W/ LOCKING COVER MARKED "GV"
- ④ EXTENSIONS AS REQUIRED
- ⑤ COVER OPENINGS WITH 15# FELT OR FIBERGLASS MATTING
- ⑥ FINISH GRADE
- ⑦ SEE SPECS
- ⑧ SCH 80 PVC ADAPTER (FxF)
- ⑨ SCH 80 PVC NIPPLE (TxT, NO CLOSE NIPPLES, LENGTH AS REQUIRED)
- ⑩ 2 CU FT PEA GRAVEL MIN.
- ⑪ 2" MIN 6" MAX CLEAR
- ⑫ SET BOX ON FOUR BRICKS
- ⑬ BRASS UNION
- ⑭ PVC MAIN

**GATE VALVE**  
SCALE: NTS **D**

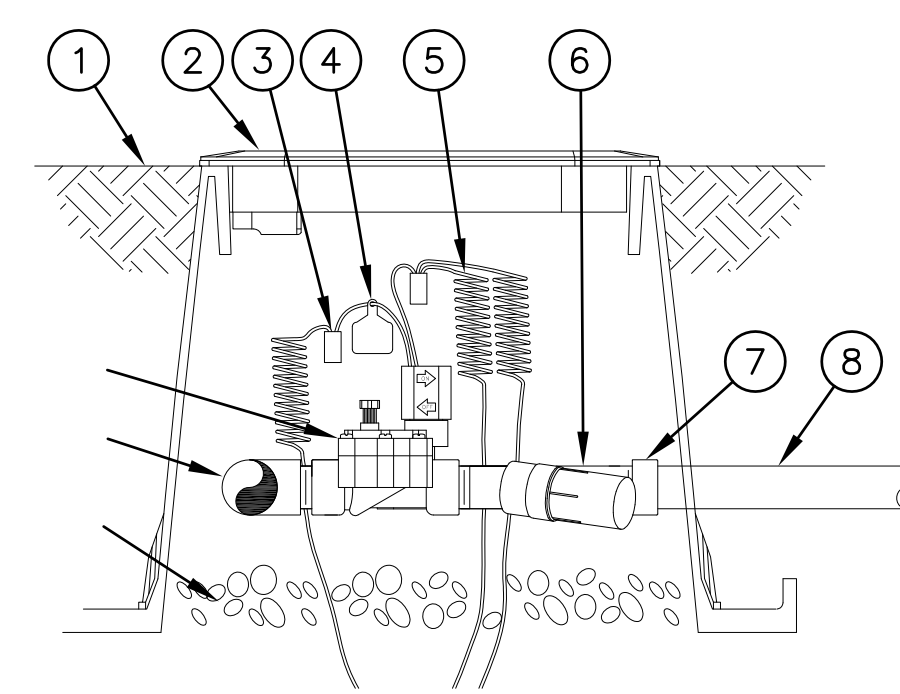


- ① MULCH
- ② FLUSH CAP FOR EASY FIT COMPRESSION FITTINGS: POTABLE: RAIN BIRD MDCFCAP NON-POTABLE: RAIN BIRD MDCFPCAP
- ③ EASY FIT COUPLING: RAIN BIRD MDCFCOUP
- ④ SUBTERRANEAN EMITTER BOX: RAIN BIRD SEB 7XB
- ⑤ 1/2" POLYETHYLENE TUBING: RAIN BIRD XF BLANK TUBING
- ⑥ FINISH GRADE
- ⑦ PVC EXHAUST HEADER
- ⑧ PVC SCH 40 TEE OR EL
- ⑨ BARB X MALE FITTING: RAIN BIRD XFD-MA FITTING (TYPICAL)
- ⑩ ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFD DRIPLINE NON-POTABLE: XFDP DRIPLINE
- ⑪ 3-INCH MINIMUM DEPTH OF 3/4" WASHED GRAVEL
- ⑫ BRICK (1 OF 2)

NOTE:  
1. ALLOW A MINIMUM OF 6-INCHES OF DRIPLINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

**DRIPLINE FLUSH POINT**  
SCALE: NTS **G**

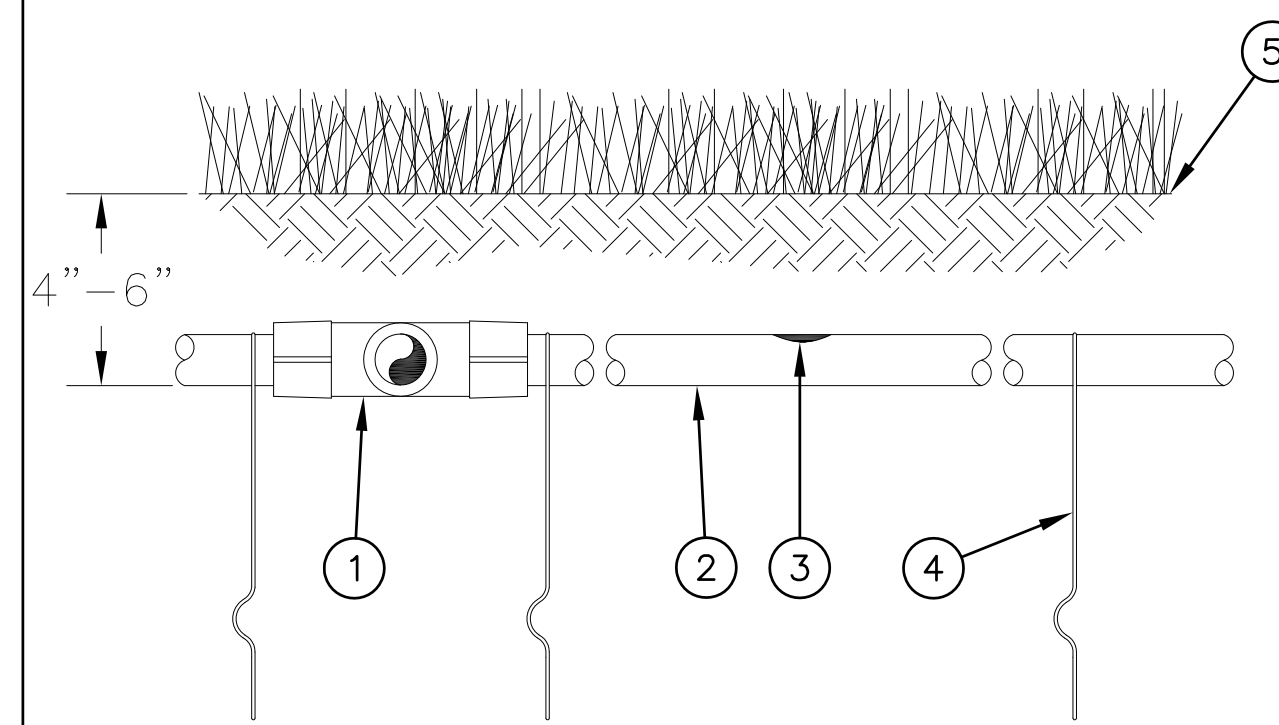
**FLOW SENSOR**  
SCALE: NTS **B**



- ① FINISH GRADE
- ② STANDARD VALVE BOX WITH COVER: RAIN BIRD VB-STD
- ③ WATERPROOF CONNECTION: RAIN BIRD DB SERIES
- ④ VALVE ID TAG
- ⑤ 30-INCH LINEAR LENGTH OF WIRE, COILED
- ⑥ PRESSURE REGULATING FILTER: RAIN BIRD PRF-100-RBY (INCLUDED IN KIT)
- ⑦ PVC SCH 40 FEMALE ADAPTOR
- ⑧ LATERAL PIPE
- ⑨ REMOTE CONTROL VALVE: RAIN BIRD 100-DV. INSTALL IN CENTER OF BOX - NO EXCEPTIONS
- ⑩ PVC SCH 40 TEE OR ELL TO MANIFOLD
- ⑪ 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

SIDE VIEW

**DRIP CONTROL ASSEMBLY**  
SCALE: NTS **E**

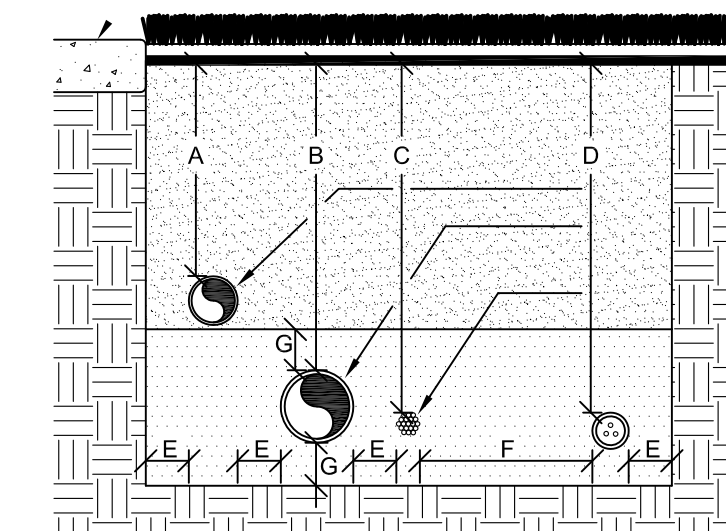


- ① EASY FIT COMPRESSION TEE: RAIN BIRD MDCFTTE
- ② SUB-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFS DRIPLINE NON-POTABLE: XFSP DRIPLINE
- ③ INLINE DRIP EMITTER
- ④ TIE DOWN STAKE: RAIN BIRD TDS-050 WITH BEND (TYPICAL)
- ⑤ TURF/FINISH GRADE OR SHRUB BED WITH MULCH

NOTES:  
1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.  
2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.  
3. INSERTION PLOW AND TRENCHED INSTALLATIONS DO NOT REQUIRE TIE DOWN STAKES.

**SUB-SURFACE DRIPLINE**  
SCALE: NTS **H**

**REMOTE CONTROL VALVE**  
SCALE: NTS **C**



- ① PAVING OR CURB EDGE
- ② FINISH GRADE
- ③ UNDISTURBED SOIL
- ④ CLEAN COMPACTED BACKFILL
- ⑤ LATERAL PIPE
- ⑥ PRESSURE MAIN LINE PIPE
- ⑦ CONTROL WIRES, LAY NEXT TO MAINLINE, BUNDLE AND TAPE AT TEN FOOT INTERVALS
- ⑧ CLEAN SAND BACKFILL
- ⑨ 120V POWER WIRES IN SCH 40 CONDUIT

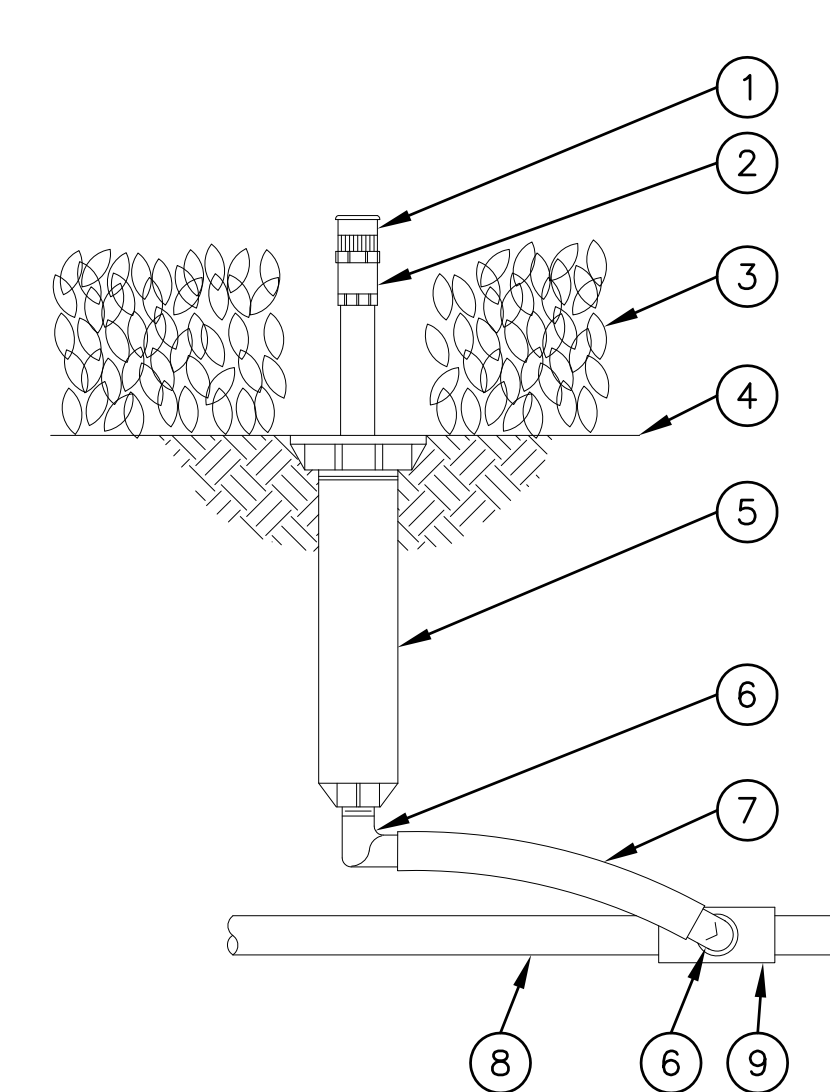
TIE A 36" LOOP IN ALL WIRING AT ALL CHANGES OF DIRECTION. GREATER THAN 30 DEGREES, UNTIE AFTER ALL CONNECTIONS HAVE BEEN MADE

| DIMENSION            | A   | B   | C   | D   | E  | F   | G  |
|----------------------|-----|-----|-----|-----|----|-----|----|
| 1/2" TO 1 1/2" SIZE  | 18" | 24" | 26" | 30" | 6" | 24" | 6" |
| 2" TO 2 1/2" IN SIZE | 18" | 24" | 26" | 30" | 6" | 24" | 6" |
| 3" AND LARGER        | 18" | 24" | 26" | X   | 6" | 24" | 6" |

SLAKE ALL PLASTIC PIPING WITHIN TRENCHES  
INSTALL ALL PIPE IN ACCORD WITH MANUFACTURERS SPECIFICATIONS

PLAN VIEW - N.T.S.

**PIPE & WIRE TRENCHING**  
SCALE: NTS **F**



- ① PRESSURE COMPENSATING FULL-CIRCLE BUBBLER: RAIN BIRD 1400
- ② PLASTIC ADAPTER: RAIN BIRD MODEL PA-80
- ③ PLANT MATERIAL
- ④ FINISH GRADE/TOP OF MULCH
- ⑤ POP-UP SPRAY SPRINKLER: RAIN BIRD 1804-SAM-PRS
- ⑥ 1/2-INCH MALE NPT x .490-INCH BARB ELBOW: RAIN BIRD MODEL SBE-050
- ⑦ SWING PIPE, 12-INCH LENGTH: RAIN BIRD MODEL SP-100
- ⑧ PVC LATERAL PIPE
- ⑨ PVC SCH 40 TEE OR ELL

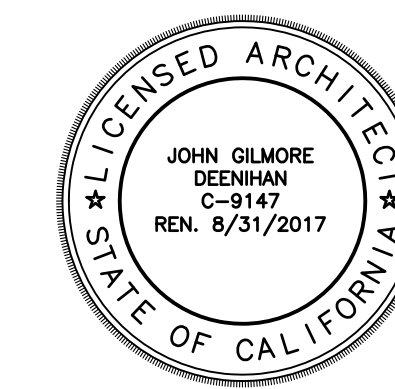
**BUBBLER ON POP-UP BODY**  
SCALE: NTS **I**

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|-----------|-----|------|-------------|
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|           | ○   |      |             |

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| REVISIONS | ISSUE | DATE | REVISION |
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