GENERAL NOTES

1. PRIOR TO START OF PROJECT WORK, OWNER SHALL CONFER WITH CONTRACTOR TO DETERMINE THE EXTENT OF WORK AND CURRENT PROJECT TO BE PERFORMED BY THE OWNER AND CONTRACTOR. NO WORK IS TO BE PERFORMED PRIOR TO THE PROJECT CONTRACTOR IS NOTIFIED OF THE RESULTS OF THE PROJECT WORK.

2. NOTICED THE APPEARANCE IN WORK CAN BE DESIGNED TO BE DESIGNED IN THE Extent of Work and Current Project To BE PERFORMED BY THE OWNER AND CONTRACTOR. NO WORK IS TO BE PERFORMED PRIOR TO THE PROJECT CONTRACTOR IS NOTIFIED OF THE RESULTS OF THE PROJECT WORK.

3. ALL MANDATORY REQUIREMENTS ARE INCLUDED IN THE PROJECT CONTRACTOR'S CONTRACT DOCUMENTS. CONTRACTOR IS RESOLVED WITH ALL REQUIREMENTS AND IS CONSIDERED TO BE CONSIDERED TO BE COMPLIANT WITH ALL REQUIREMENTS.

4. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS AND IS CONSIDERED TO BE PERFORMING THE WORK AS PERMITTED BY THE PROJECT CONTRACTOR.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS AND IS CONSIDERED TO BE PERFORMING THE WORK AS PERMITTED BY THE PROJECT CONTRACTOR.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS AND IS CONSIDERED TO BE PERFORMING THE WORK AS PERMITTED BY THE PROJECT CONTRACTOR.

PRELIMINARY PLANTING NOTES

1. ALL PLANTS ARE TO BE SELECTED AND PLANTED IN ACCORDANCE WITH THE LATEST EDITION OF ANLA "STANDARDS FOR NURSERY STOCK".

2. ALL PLANTS ARE TO BE SELECTED AND PLANTED IN ACCORDANCE WITH THE LATEST EDITION OF ANLA "STANDARDS FOR NURSERY STOCK".

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SITE DESIGN CALCULATIONS

1. NET LOT AREA

2. HARDSCAPE AREA

3. VEGETATIVE

4. SOFTSCAPE AREA

ACCESSIBILITY NOTES

1. ALL MAJOR DETAILED FROM THIS PAGE

2. ALL MAJOR DETAILED FROM THIS PAGE

3. ALL MAJOR DETAILED FROM THIS PAGE

4. ALL MAJOR DETAILED FROM THIS PAGE

5. ALL MAJOR DETAILED FROM THIS PAGE

REFERENCE SYMBOLS

1. SITE SECTION

2. SHEET NUMBER

3. SHEET TITLE

4. SHEET SCALE

5. REVOLUTION NUMBER

6. DIMENSION LINE

7. TEXT ON DRAWING

8. PROFILE VIEW

9. PLAN VIEW

10. ELEVATION

L0.00

12345.000

NOT FOR CONSTRUCTION

FOLSOM MOB

220 BOWIE ST

FOLSOM, CA 95630
SOUTH PARKING LOT

PARKING SHADE CALCULATION

TOTAL PARKING LOT: 202,787 SF

- NORTH PARKING LOT:
  - TOTAL SURFACE PARKING AREA: 158,728 SF
  - TOTAL SHADED SURFACE PARKING AREA: 80,083 SF
- SOUTH PARKING LOT:
  - TOTAL SURFACE PARKING AREA: 21,048 SF
  - TOTAL SHADED SURFACE PARKING AREA: 11,036 SF
- EAST PARKING LOT:
  - TOTAL SURFACE PARKING AREA: 22,991 SF
  - TOTAL SHADED SURFACE PARKING AREA: 11,922 SF

TOTAL LANDSCAPED AREA: 15,233 SF OR 31.4% OF TOTAL LOT AREA

TOTAL PEDESTRIAN HARDSCAPE AREA: 590 SF OR 26.2% OF TOTAL LOT AREA

TOTAL PEDESTRIAN HARDSCAPE AREA: 0 SF OR 4.5% OF PARKING AREA

SHADE TREES PLANTING IN 36" BOX MINIMUM OR PV STRUCTURES SHALL BE INSTALLED TO PROVIDE SHADE 50% MINIMUM OF THE TOTAL PARKING LOT AREA.
**HARDSCAPE DETAILS**

**MANUFACTURER:** LANDSCAPE FORMS  
**MODEL:** LINK BENCH WITH BACK AND ARMS

**MANUFACTURER:** LANDSCAPE FORMS  
**MODEL:** METRO40 REST BENCH WITH BACK AND ARMS

**MANUFACTURER:** LANDSCAPE FORMS  
**MODEL:** PARC CENTRE TABLE

**MANUFACTURER:** LANDSCAPE FORMS  
**MODEL:** COLLECT TRASH RECEPTACLE

**MANUFACTURER:** LANDSCAPE FORMS  
**MODEL:** BOLA BIKE RACK

**MANUFACTURER:** LANDSCAPE FORMS  
**MODEL:** CAFE TABLE

**MANUFACTURER:** LANDSCAPE FORMS  
**MODEL:** PARK CENTRE TABLE

**MANUFACTURER:** LANDSCAPE FORMS  
**MODEL:** 21 CHAIR

**MANUFACTURER:** LANDSCAPE FORMS  
**MODEL:** BENCH TYPE II

**MANUFACTURER:** LANDSCAPE FORMS  
**MODEL:** BENCH TYPE I

**MANUFACTURER:** LANDSCAPE FORMS  
**MODEL:** TRASH RECEPTACLE

**MANUFACTURER:** LANDSCAPE FORMS  
**MODEL:** BIKE RACK

**MANUFACTURER:** LANDSCAPE FORMS  
**MODEL:** STEPSTONE

**MANUFACTURER:** LANDSCAPE FORMS  
**MODEL:** QCP OR EQUAL

**MANUFACTURER:** LANDSCAPE FORMS  
**MODEL:** PRECAST CONCRETE

**MANUFACTURER:** LANDSCAPE FORMS  
**MODEL:** MATERIAL: CONCRETE

**MANUFACTURER:** LANDSCAPE FORMS  
**MODEL:** MATERIAL: PRECAST CONCRETE

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**MODEL:** MATERIAL: CONCRETE

**MANUFACTURER:** LANDSCAPE FORMS  
**MODEL:** MATERIAL: CONCRETE
1. FOR EXPANSION JOINT, REFERENCE DETAIL 3, 1-L2.5.1.
2. FOR CONTROL JOINT, REFERENCE DETAIL 4, 1-L2.5.1.
3. TOP CAST FINISH OR MATCH CAMPUS STANDARD.
4. PROVIDE SCORE JOINTS (SJ) AND EXPANSION JOINTS (EJ) AS SHOWN ON PLAN.
5. PROVIDE (EJ) MAX. 18' O.C. BOTH DIRECTIONS, ADJACENT TO BUILDINGS, WALLS, AND OTHER VERTICAL ELEMENTS, UNLESS OTHERWISE NOTED ON PLANS.

1. TRUNCATED DOMES MUST BE COLOR CONTRASTING TO ADJACENT PATH OF TRAVEL SURFACES, AND THE RAISED DOMES MUST MEET THE DIMENSIONAL REQUIREMENTS OF CBC SECTION 11B-705.
2. COLOR: FEDERAL YELLOW AND APPROXIMATE TO FS 33538 OF FEDERAL STANDARD 595C.
3. REFER TO CIVIL DETAILS FOR CITY STANDARD CURB RAMP AND TRUNCATED DOME DETAILS.
4. SEE SPECIFICATIONS FOR TRUNCATED DOME PAVER PRODUCT INFORMATION.
1. MODEL: REST BENCH IN WOOD
   MANUFACTURER: LANDSCAPE FORMS
   SEE SPECS FOR ADDITIONAL INFORMATION

2. SEE LAYOUT PLAN FOR LOCATIONS OF BENCHES

MODEL: LINK, INLINE, LEFT MITER, SHORT SIDE W/FULL BACKREST
MANUFACTURER: LANDSCAPE FORMS
SEE SPECS FOR ADDITIONAL INFORMATION

MODEL: BOLA
MANUFACTURER: LANDSCAPE FORMS
SEE SPECS FOR ADDITIONAL INFORMATION

MODEL: METRO 40 COLLECT LITTER
MANUFACTURER: VICTOR STANLEY
SEE SPECS FOR ADDITIONAL INFORMATION
1. **TREE PLANTING**
   - Set root flare collar at finish grade.
   - 2' deep mulch do not cover root flare.
   - Mulched and burlapped plant.
   - Planting gravel, slope, soil, and compacted subgrade.

2. **TREE GUYING**
   - Set root flare collar at finish grade.
   - Deep mulch do not cover root flare.
   - Plant bed mix.

3. **SHRUB PLANTING**
   - Scarify to 2' depth and recompact substrate.
   - Note: Depth of planting backfill must be confirmed and limits of bed shown on the plans and labeled accordingly.

4. **PLANTING ON SLOPE**
   - Shrub or perennial.
   - Bulb.
   - Planting details.

5. **GROUND COVER, NATIVE GRASSES AND PERENNIALS**
   - Planting details.

6. **VINE PLANTING**
   - Planting details.

7. **PLANT SPACING**
   - Plant details.

8. **MULCH AT PAVING**
   - Mulch at paving details.

9. **AREA DRAIN IN PLANTING**
   - Plan details.

**NOTES**

- 1. SEE PLAN FOR LOCATION.
- 2. SEE SPEC FOR MORE INFORMATION REGARDING PLANT INSTALLATION AND SOIL PREPARATION.
- 3. SEE SPEC FOR MORE INFORMATION REGARDING PLANT INSTALLATION AND SOIL PREPARATION.
- 4. REFER TO PLANTING PLAN FOR PLANT SPACING AND SPECIES SELECTION.
- 5. REFER TO IRRIGATION PLAN FOR IRRIGATION.
- 6. REFER TO IRRIGATION PLAN FOR IRRIGATION.
### TREES

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<th>SYM</th>
<th>QTY</th>
<th>SCIENTIFIC NAME</th>
<th>COMMON NAME</th>
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<td>36&quot; BOX</td>
<td>L</td>
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<td>20'-40'</td>
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<tr>
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<td>ROYAL PALM</td>
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### SHRUBS AND GROUNDCOVER

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### PLANTING SCHEDULE

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<th>PROJECT NUMBER</th>
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<tr>
<td>9/26/2022</td>
<td>L8.0.2</td>
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### CAUTIONS

- Install continuous root barriers for a distance of 8'-0" on each side of tree trunk where tree roots shall be within 6'-0" of paving, curbs, etc.

### PLANTING AND CARE

- Prior to installation, review the plant care recommendations provided by the nursery.

### MULCHING

- Mulch shall be applied to all planting beds, 1'-0" to 2'-0" from the trunk of the tree, and shall extend to the outside of the root barrier, if installed.

### LOCATION

- The planting location is within 8'-0" of paving, curb, or sidewalk, and shall be a minimum of 2'-0" from the centerline of the street.

### INSTALLATION

- The installation shall be performed in accordance with the manufacturer’s recommendations.

### MATERIALS

- All materials shall be of the highest quality and shall meet the requirements specified by the architect and the owner.

### FINISHING GRADES

- All finish grades shall be properly graded and shall be free of all debris and pavement materials.

### FOOTNOTES

- Footnotes are used to provide additional information and to clarify the text.

### REV.

- The document is revised to include the latest updates and changes.

### NOT FOR CONSTRUCTION

- The document is not intended for construction purposes and shall be used for planning and design purposes only.
SHRUB SUBSURFACE IRRIGATION SYSTEM

SYMBOL: MFR/Model NO. / Description

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>MFR/Model NO. / Description</th>
<th>DETAIL</th>
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</thead>
<tbody>
<tr>
<td>VALVE SIZE</td>
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TUBING CONNECTIONS ARE MADE. ALL DRIP TUBING LINES SHALL BE FLUSHED CLEAN BEFORE BACKFILLING.

A. ALL MAINLINES AND LATERAL LINES SHALL BE THOROUGHLY FLushed CLEAN BEFORE DRIP MANIFOLD ASSEMBLIES AND/OR DRIP VALVES TO MATCH MAINLINE SIZE. VALVE MANIFOLDS WITH ISOLATION VALVE ARE NOT SHOWN ON PLANS FOR CLARITY.

OVERHEAD IRRIGATION

- **RAN-BIRD**
  - Model RD-06-S-4F: 12" (Q, H, F) - 0.48 x 1.59 = 0.75 GPM
  - Model RD-08-S-4F: 18" (Q, H, F) - 0.98 x 1.59 = 1.60 GPM

- **MOBILE**
  - Model RT-06-S-10: 10" (Q, H, F) - 0.50 x 1.59 = 0.80 GPM
  - Model RT-08-S-10: 14" (Q, H, F) - 0.89 x 1.59 = 1.42 GPM

- **RAIN BIRD**
  - Model RD-12-S-4F: 18" (Q, H, F) - 1.18 x 1.59 = 1.91 GPM

- **XERI-BIRD**
  - Model XBD-80: 8" (Q, H, F) - 0.50 x 1.59 = 0.80 GPM

**NOTES:**

- ALL MAINLINES AND LATERAL LINES SHALL BE THOROUGHLY FLUSHED BEFORE INSTALLATION TO PER MANUFACTURER'S SPECIFICATIONS.
- INSTALL TUBING TO MATCH MAINLINE SIZE. VALVE MANIFOLDS WITH ISOLATION VALVE ARE NOT SHOWN ON PLANS FOR CLARITY.
- CROSSINGS INSTALLED BY OTHERS. IRRIGATION CONTRACTOR SHALL VERIFY THE EXACT TERMINUS LOCATIONS, DEPTH, AND SIZES WITH GENERAL CONTRACTOR BEFORE COMMENCING WORK.

**IRRIGATION UTILITIES**

- **P.O.C.**
  - INSTALL CENTERED ON A 30"X36"X4" POURED-IN-PLACE CONCRETE PAD. UNIT TO BE INSTALLED WITHIN V.I.T. BACKFLOW ASSEMBLY ENCLOSURE: MODEL SBBC-22SS. INSTALL ON CONCRETE PAD TO MATCH MAINLINE SIZE.

- **V.I.T.**
  - INSTALL ON EITHER SIDE OF RCV. USE REDUCING PVC MALE ADAPTERS TO UPSIZE TO PVC PIPE AS REQUIRED. FITTINGS WITH A THREADED MALE AND/OR FEMALE COMPONENT: 1-1/2" OR SMALLER, USE SPEARS PVC CL 315 BLUE ‘EVERTUFF’ SERIES FITTINGS ONLY.

- **SPEARS**
  - INSTALL ON EITHER SIDE OF RCV. USE REDUCING PVC MALE ADAPTERS TO UPSIZE TO PVC PIPE AS REQUIRED. FITTINGS WITH A THREADED MALE AND/OR FEMALE COMPONENT: 1-1/2" OR SMALLER, USE SPEARS PVC CL 315 BLUE ‘EVERTUFF’ SERIES FITTINGS ONLY.

- **XERI-BIRD**
  - Model XBD-80: 8" (Q, H, F) - 0.50 x 1.59 = 0.80 GPM

**IRRIGATION MISCELLANEOUS**

- **NO SYMBOL**
  - NO SYMBOL INDICATES THAT THE TUBING CONNECTIONS ARE MADE. ALL DRIP TUBING LINES SHALL BE FLUSHED CLEAN BEFORE BACKFILLING.

- **RAIN BIRD**
  - Model RD-06-S-4F: 12" (Q, H, F) - 0.48 x 1.59 = 0.75 GPM
  - Model RD-08-S-4F: 18" (Q, H, F) - 0.98 x 1.59 = 1.60 GPM
  - Model RD-12-S-4F: 18" (Q, H, F) - 1.18 x 1.59 = 1.91 GPM
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**GENERAL IRRIGATION NOTES**

**DESIGN CRITERIA:**
1. The irrigation design is based on the equipment, manufacturer's models, and specifications as shown in the plan legend. Details and specifications are shown in the plan, including controller schematic, controller location plans, electrical conduit and placement of isolation valves. The city engineer shall provide dimension coordinate points and meet the design specifications set by the city. The city engineer may require changes to the system design and specifications. In the event the contractor chooses to use an alternate product, the product must be approved by the city engineer prior to purchasing.
2. The controller shall be responsible for grounding installation information. It shall be the responsibility of the contractor to inform the city engineer prior to purchasing the electrical conduit so as to provide adequate grounding as determined by the city engineer. The contractor shall contact the contactor and designer manufacturer for additional decoder grounding installation information. Information 28 contact: VANCE NOLLETTI, PAIGE ELECTRIC, FRESNO, CA (559) 431-2574 for additional decoder grounding installation information.
3. The installation of the controller shall be in accordance with the manufacturer's specifications, but not greater than 10 ohms. Contact Vince Nolletti, Paige Electric, Fresno, CA (559) 431-2574 for additional controller grounding installation information.

**FOLSOM MOB**

**NOT FOR CONSTRUCTION**

**SMITHGROUP**

**GENERAL IRRIGATION NOTES**

**CONTROLLER NOTING:**
1. Waterproofing shall be provided for decoder ground wire from the controller ground lug to the ground rod. Maximum ground resistance shall be 10 ohms. Contact Vince Nolletti, Paige Electric, Fresno, CA (559) 431-2574 for additional controller grounding installation information.
2. The #6 AWG ground wire from the controller ground lug to the ground rod. Maximum ground resistance shall be 10 ohms. Contact Vince Nolletti, Paige Electric, Fresno, CA (559) 431-2574 for additional controller grounding installation information.
3. Waterproofing shall be provided for decoder ground wire from the controller ground lug to the ground rod. Maximum ground resistance shall be 10 ohms. Contact Vince Nolletti, Paige Electric, Fresno, CA (559) 431-2574 for additional controller grounding installation information.

**EQUIPMENT / P.O.C. NOTES:**
1. The irrigation design is based on the equipment and specifications as shown in the plan, including controller schematic, controller location plans, electrical conduit and placement of isolation valves. The city engineer shall provide dimension coordinate points and meet the design specifications set by the city. The city engineer may require changes to the system design and specifications. In the event the contractor chooses to use an alternate product, the product must be approved by the city engineer prior to purchasing.
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3. Waterproofing shall be provided for decoder ground wire from the controller ground lug to the ground rod. Maximum ground resistance shall be 10 ohms. Contact Vince Nolletti, Paige Electric, Fresno, CA (559) 431-2574 for additional controller grounding installation information.

**CONTRACTOR SHALL REFER TO DETAILS LI-503/B,D,E FOR SYSTEM GROUNDING INSTALLATION. CONTACT VANCE NOLLETTI, PAIGE ELECTRIC, FRESNO, CA (559) 431-2574 FOR ADDITIONAL CONTROLLER GROUNDING INSTALLATION INFORMATION.**
THEY ARE TO BE PROTECTED IN PLACE.

1. All landscape features shall be protected and any removal of plant material shall be carried out after consultation and review of the landscape consultant and landscape architect.

2. All lateral lines for drip zones shall be PVC #40 pipe.

3. Sub-lateral piping shall be #10 SCH 40 pipe. Backflow laterals shall be per plan size.

4. Contractor to provide the quantity of emitters based on the actual plant count and the emitter table shown in the legend.

5. Verify the actual plant quantities and sizes from the landscape plans prior to bidding or commencing work.

6. Plot Plan installation shall be the responsibility of the contractor. The installer shall be fully responsible for providing all necessary equipment to ensure emitter sizes as may be needed to provide any water volume adjustments for healthy plant growth. The task shall be completed after three weeks of plant observations.

7. Plant materials shall be verified with the irrigation consultant and landscape architect.

8. Emitter changes and fine tune adjustments shall be carried out as part of this project.

9. All driplines shall be laid level and parallel to existing grade for constructible purposes. Layout as shown in the plans does not always depict the actual layout direction. Hatch patterns of drip areas as shown in the plans are diagrammatic only.

10. The irrigation plans and the specification of individual emitters do not take into account the exposure geometric area of locations relative to the dripline setup patterns within a zone. The actual layout shall be determined by the landscape consultant and landscape architect.

11. The emitter table in legend is an estimated emitter quantities and flows. Contractor shall install emitters as shown in the table at initial installation.

12. Sub-lateral piping as shown in details L1-L4 and "L00" shall be #10 SCH 40 pipe. Backflow laterals shall be per plan size.

13. The irrigation plans and the specification of individual emitters do not take into account the exposure geometric area of locations relative to the dripline setup patterns within a zone. The actual layout shall be determined by the landscape consultant and landscape architect.

14. For multi-outlet dripline manifolds, units shall be aligned with trees as shown in the details, install at distance from tree per legend description. Confirm all proposed layout in window (or other reflective surface) on a south or west facing exposure, may require a lower flow rate, depending on the location of the emitter. For shadecover located within a shaded area an emitter with a lower flow rate may be required than an open area. For emitters located within a high heat index area, such as within the shade of an evergreen or a ground cover, or under a reflective surfact on a south or west facing exposure requiring a higher emitter to compensate for the higher water evaporation loss from the soil. When areas are found, such as listed above, on a project, the contractor shall review areas with the landscape architect for required individual emitter substitutions. Such emitter substitutions shall not increase the cost of the project.

15. To provide the quantity of emitters based on the actual shrub and tree count and the emitters shown on the plans. Any reference to total emitter quantities on these plans is for design use only. Verify the actual shrub and tree quantities and sizes from landscape plans prior to bidding or commencing work.

16. The irrigation plans and the specification of individual emitters do not take into account the exposure geometric area of locations relative to the dripline setup patterns within a zone. The actual layout shall be determined by the landscape consultant and landscape architect.

17. Prior to bidding or commencing work, contractor shall verify the quantity of emitters based on the actual shrub and tree count and the emitters shown on the plans. Any reference to total emitter quantities on these plans is for design use only. Verify the actual shrub and tree quantities and sizes from landscape plans prior to bidding or commencing work.

18. Contractor shall verify the quantity of emitters based on the actual shrub and tree count and the emitters shown on the plans. Any reference to total emitter quantities on these plans is for design use only. Verify the actual shrub and tree quantities and sizes from landscape plans prior to bidding or commencing work.
**Irrigation Details**

**Notes:**
- A. Install one (1) ECO-ID within each planter to show extent of zone while under irrigation.
- B. Avoid heavily compacting soil around valve boxes to prevent collapse and damage to valve boxes.
- C. Center assembly within valve box. Unfettered access to valve and riser pipes required.
- D. Valve box under concrete shall be labeled with RCV #.
- E. Location of valve assemblies shall be determined by landscape architect prior to installation.
- F. Quick couplers shall be installed as required for access to system.
- G. Avoid heavy compacting soil around valve boxes to prevent collapse and damage to valve boxes.
- H. Valve box location/marking.
- I. Avoid heavily compacting soil around valve boxes to prevent collapse and damage to valve boxes.
- J. Rcv assembly within valve box. Unfettered access to valve, and riser pipes required.
- K. Location of valve boxes shall be determined by landscape architect prior to installation.

**Legend:**
- 1. Irrigation mainline
- 2. Mainline tee fitting, mainline x riser pipe
- 3. Manifold isolation valve
- 4. All valve boxes to have a minimum 12" separation between boxes
- 5. Irrigation manifold, size for largest lateral pipe
- 6. Brass remote control valve, illustration does not show required spare ball valve upstream or downstream.
- 7. Rectangular specification grade valve box, refer to legend for type
- 8. PVC box on union, two required per assembly, refer to legend for installation details
- 9. Lateral to sprinklers
- 10. Sidewalk / handicap access, install as required
- 11. Quick coupler valve, refer to legend for type
- 12. Manifold tee fitting, mainline x riser pipe
- 13. PVC manifold isolation valve
- 14. Quick coupler union
- 15. Quick coupler swing joint
- 16. 1" riser specification grade valve box, refer to legend for type

**Valve Box Location / Marking**

**Notes:**
- A. Install one (1) ECO-ID within each planter to show extent of zone while under irrigation.
- B. Avoid heavily compacting soil around valve boxes to prevent collapse and damage to valve boxes.
- C. Valve box under concrete shall be labeled with RCV #.
- D. Location of valve assemblies shall be determined by landscape architect prior to installation.
- E. Valve box location/marking.
- F. Avoid heavy compacting soil around valve boxes to prevent collapse and damage to valve boxes.
- G. Valve box location/marking.
- H. Valve box location/marking.
- I. Avoid heavy compacting soil around valve boxes to prevent collapse and damage to valve boxes.
- J. Rcv assembly within valve box. Unfettered access to valve, and riser pipes required.
- K. Location of valve boxes shall be determined by landscape architect prior to installation.

**Legend:**
- 1. Irrigation mainline
- 2. Mainline tee fitting, mainline x riser pipe
- 3. Manifold isolation valve
- 4. All valve boxes to have a minimum 12" separation between boxes
- 5. Irrigation manifold, size for largest lateral pipe
- 6. Brass remote control valve, illustration does not show required spare ball valve upstream or downstream.
- 7. Rectangular specification grade valve box, refer to legend for type
- 8. PVC box on union, two required per assembly, refer to legend for installation details
- 9. Lateral to sprinklers
- 10. Sidewalk / handicap access, install as required
- 11. Quick coupler valve, refer to legend for type
- 12. Manifold tee fitting, mainline x riser pipe
- 13. PVC manifold isolation valve
- 14. Quick coupler union
- 15. Quick coupler swing joint
- 16. 1" riser specification grade valve box, refer to legend for type

**Drip Zone Operation Indicator Assembly**

**Notes:**
- A. Install one (1) ECO-ID within each planter to show extent of zone while under irrigation.
- B. Avoid heavily compacting soil around valve boxes to prevent collapse and damage to valve boxes.
- C. Valve box under concrete shall be labeled with RCV #.
- D. Location of valve assemblies shall be determined by landscape architect prior to installation.
- E. Valve box location/marking.
- F. Avoid heavy compacting soil around valve boxes to prevent collapse and damage to valve boxes.
- G. Valve box location/marking.
- H. Valve box location/marking.
- I. Avoid heavy compacting soil around valve boxes to prevent collapse and damage to valve boxes.
- J. Rcv assembly within valve box. Unfettered access to valve, and riser pipes required.
- K. Location of valve boxes shall be determined by landscape architect prior to installation.

**Legend:**
- 1. Irrigation mainline
- 2. Mainline tee fitting, mainline x riser pipe
- 3. Manifold isolation valve
- 4. All valve boxes to have a minimum 12" separation between boxes
- 5. Irrigation manifold, size for largest lateral pipe
- 6. Brass remote control valve, illustration does not show required spare ball valve upstream or downstream.
- 7. Rectangular specification grade valve box, refer to legend for type
- 8. PVC box on union, two required per assembly, refer to legend for installation details
- 9. Lateral to sprinklers
- 10. Sidewalk / handicap access, install as required
- 11. Quick coupler valve, refer to legend for type
- 12. Manifold tee fitting, mainline x riser pipe
- 13. PVC manifold isolation valve
- 14. Quick coupler union
- 15. Quick coupler swing joint
- 16. 1" riser specification grade valve box, refer to legend for type
A POP-UP SPRINKLER

- 2" MULCH LAYER REPEATED TO LANDSCAPE SPECIFICATIONS FOR TYPE AND DEPTH
- 3 POP-UP SPRINKLER REFER TO LEGEND FOR SPECIFICATION
- 1/2" MULCH LAYER FITTING OF PARKING SWING ASSEMBLY
- 1/2" MULCH LAYER REPEATED TO LANDSCAPE SPECIFICATIONS FOR TYPE AND DEPTH
- PVC SCH 40 SxSxT EL FOR SWING ASSEMBLY
- PVC DRAIN PIPE

B PEDESTAL MOUNT CONTROLLER ASSEMBLY

- PEDESTAL CONTROLLER GROUNDING
- APOP-UP SPRINKLER
- 1/2"

C PIPE / WIRE / SLEEVE INSTALLATION

- PEDESTAL CONTROLLER GROUNDING

D PEDESTAL CONTROLLER GROUNDING

- IRRIGATION CONTROLLER INSTALLED WITHIN ENCLOSURE REFER TO LEGEND FOR SPECIFICATION
- CONTROLLER ENCLOSURE TERMINAL STRIP FOR REMOTE CONTROL VALVE WIRE CONNECTION
- FRONT OPENING STAINLESS STEEL PEDESTAL REFER TO LEGEND FOR SPECIFICATION
- 1/2" SCHR 40 ELECTRICAL CONDUIT REFER TO LEGEND FOR SPECIFICATION
- 1/2" SCH 40 ELECTRICAL CONDUIT WITH SWEEP ELL FOR CONTROL WIRES
- 1/2" SCH 40 ELECTRICAL CONDUIT WITH SWEEP ELL FOR CONTROL WIRES
- 1/2" SCH 40 ELECTRICAL CONDUIT WITH SWEEP ELL FOR CONTROL WIRES
- 1/2" SCH 40 ELECTRICAL CONDUIT WITH SWEEP ELL FOR CONTROL WIRES
NOTES:
A. INSTALL AIR RELIEF VALVES AT ALL HIGH POINTS IN ZONE.
B. DISTANCE BETWEEN LATERAL ROWS TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. MAXIMUM SPACING SHALL BE 12" APART FOR TURF AREAS. MAXIMUM SPACING SHALL BE 16" APART FOR FLAT SHRUB AREAS.
C. INSTALL SUB-SURFACE TUBING MAXIMUM 1' FROM ANY HARDSCAPE EDGE IN TURF AND 9" IN SHRUBS.
D. PLACE TIE DOWN STAKES EVERY 3' IN SAND, 4' IN LOAM, AND 5' IN CLAY SOILS.
E. MAXIMUM TUBING LENGTH OF RUN SHALL NOT EXCEED 150' FROM LATERAL PIPE SUPPLY MANIFOLD.

FLUSH VALVE (TYPICAL) WITHIN 10" ROUND BOX
5. PERIMETER OF AREA
6. PERIMETER DRIPLINE PIPE TO BE INSTALLED
7. ECO-ZONE OPERATION INDICATOR
8. LATERAL PIPE SUPPLY MANIFOLD
9. CONNECT ON SUB-SURFACE TUBING MAXIMUM 3" FROM ANY HARDSCAPE EDGE IN TURF AND 9" IN SHRUBS.
10. AIR / VACUUM RELIEF VALVE REFER TO LEGEND FOR SPECIFICATION INSIDE LATERAL PIPE SUPPLY MANIFOLD LOCATION AS SHOWN DIAGRAMMATIC ONLY

SUB-SURFACE DRIPLINE TUBING: REFER TO LEGEND FOR SPECIFICATION INSTALLATION LOCATION AS SHOWN DIAGRAMMATIC ONLY
LATERAL PIPE SUPPLY MANIFOLD WITHIN 12" TRENCH PER PIPE DETAIL
AIR / VACUUM RELIEF VALVE REFER TO LEGEND FOR SPECIFICATION INSIDE LATERAL PIPE SUPPLY MANIFOLD LOCATION AS SHOWN DIAGRAMMATIC ONLY

DIAGRAMMATIC ONLY
NOTES:
A. USE JOINT RESTRAINTS ON ALL BELL AND GASKET MAINLINE PIPE.
B. USE LPP OR LB SERIES RESTRAINTS FOR BELL AND GASKET JOINTS.
C. INSTALL RESTRAINTS FOR TWO PVC BELL ENDS (JOINTS) OR 50 FEET ABOVE MAINLINE DEPTH ON UPSTREAM AND DOWNSTREAM SIDE.
D. ITEMS 3, 4, 5, 6, 7 AND 8 ARE INCLUDED WITH THE EZ-FLO SYSTEM. ITEM 11 IS PURCHASED SEPARATELY.
E. PVC SCH 80 45 DEGREE ELLS AS REQUIRED TO ACHIEVE PROPER INSTALLATION.
F. PVC SCH 40 SST TEE/EL FITTING, LINE SIZE X 1/2".
G. 1/2" MIPT x 17mm BARB ADAPTER, REFER TO LEGEND FOR SPECIFICATION.
H. EZ-ADJ 1/2" FITTING, REFER TO LEGEND FOR SPECIFICATION.
I. PVC SCH 80 TEE FITTING, MAINLINE SIZE, LATERAL LINE.
J. PVC 1/2" BARB 90 ELBOW FITTING, REFER TO LEGEND FOR SPECIFICATION.
K. PVC 1/2" BLANK POLY TUBING, REFER TO LEGEND FOR SPECIFICATION.
L. SCH 40 PVC TEE SxSxT, LINE SIZE.
M. STAINLESS STEEL INDUSTRIAL HEAT, REFER TO LEGEND FOR SPECIFICATION.
N. EZ-FLO//FERTIGATION INJECTOR UNIT, MODEL EZ-FLO FERT, REFER TO LEGEND FOR SPECIFICATION.
O. PVC SUPPLY / EXHAUST MANIFOLD HEADER, TYP.
P. PVC 1/2" BARB ELBOW FITTING, REFER TO LEGEND FOR SPECIFICATION.
Q. PVC 1/2" BARB NIPPLE, LENGTH AS REQUIRED.
R. PVC 1/2" BARB TEE FITTING, LINE SIZE.
S. PVC 1/2" TUBE FITTING, REFER TO LEGEND FOR SPECIFICATION.
T. PVC SUPPLY / EXHAUST MANIFOLD HEADER, TYP.
U. PVC SUPPLY / EXHAUST MANIFOLD HEADER, TYP.
V. PVC SUPPLY / EXHAUST MANIFOLD HEADER, TYP.
W. PVC SUPPLY / EXHAUST MANIFOLD HEADER, TYP.
X. PVC SUPPLY / EXHAUST MANIFOLD HEADER, TYP.
Y. PVC SUPPLY / EXHAUST MANIFOLD HEADER, TYP.
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ZZ. PVC SUPPLY / EXHAUST MANIFOLD HEADER, TYP.
DRIPLINE-1/2" ARV ON POLY TUBING

1. PERMITTER DRIPLINE PIPE TO BE INSTALLED.
   B. INSTALL ONE AIR / VACUUM RELIEF VALVE (REFER TO LEGEND FOR SPECIFICATION) AT EACH HIGH POINT IN ZONE.
   C. INSTALL ONE AIR / VACUUM RELIEF VALVE (REFER TO LEGEND FOR SPECIFICATION) AT EACH HIGH POINT IN ZONE. LOCATION AS SHOWN IS DIAGRAMMATIC ONLY.

2. PVC SUPPLY/EXHAUST MANIFOLD

DRIPLINE- HEADER ADJACENT TO TREES

A. CONNECT ONE ARV AT EACH HIGH POINT IN ZONE, WHEN HIGH POINT IS ADJACENT TO TREES.
B. INSTALL ONE (1) ARV FOR MAXIMUM OF EVERY 550 FEET OF TUBING, OR PART THEREOF, IN ANY ZONE.
C. INSTALL AT EVERY HIGH POINT LOCATION WITHIN ZONE AS DESCRIBED IN THE LEGEND.
D. DISTANCE BETWEEN LATERAL PIPE (TYPICAL)

NOTES:
A. SET TOP OF VALVE BOX 1/2" ABOVE FINISHED GRADE IN TURF AREAS.
B. IN SHRUB AREAS INSTALL VALVE BOX 2" ABOVE SOIL LEVEL OR 1" ABOVE MUSTY LAYER, WHICHEVER IS HIGHER.
C. INSTALL IN LOCATIONS AS DESCRIBED IN THE LEGEND AND DRIPLINE INSTALLATION DETAILS.
D. DUE TO FIELD CHANGES OR OTHER REASONS TOTAL QUANTITY OF ARV'S REQUIRED OR EXHAUST HEADER

REFER TO LEGEND FOR SPECIFICATION.

E. CONTRACTOR SHALL REVIEW DRIP ZONE AREA AND LAYOUT INSTALLED WITHIN 7" ROUND VALVE BOX. CONNECTED TO PVC PIPE MANIFOLD. LOCATION AS SHOWN IS DIAGRAMMATIC ONLY.
F. AIR RELEASE / VACUUM VALVE, REFER TO LEGEND FOR SPECIFICATION.

I. PVC PIPE X DIAMETER SEENOTE 'C'

DRIP ASSEMBLY BOX INSTALLATION

A. CONNECT ONE ARV AT EACH HIGH POINT IN ZONE, WHEN HIGH POINT IS ADJACENT TO TREES.
B. INSTALL ONE (1) ARV FOR MAXIMUM OF EVERY 550 FEET OF TUBING, OR PART THEREOF, IN ANY ZONE.
C. INSTALL IN LOCATIONS AS DESCRIBED IN THE LEGEND.
D. DISTANCE BETWEEN LATERAL PIPE (TYPICAL)

NOTES:
A. SET TOP OF VALVE BOX 1/2" ABOVE FINISHED GRADE IN TURF AREAS.
B. IN SHRUB AREAS INSTALL VALVE BOX 2" ABOVE SOIL LEVEL OR 1" ABOVE MUSTY LAYER, WHICHEVER IS HIGHER.
C. INSTALL IN LOCATIONS AS DESCRIBED IN THE LEGEND.
D. DISTANCE BETWEEN LATERAL PIPE (TYPICAL)

REFER TO LEGEND FOR SPECIFICATION.

E. CONTRACTOR SHALL REVIEW DRIP ZONE AREA AND LAYOUT INSTALLED WITHIN 7" ROUND VALVE BOX. CONNECTED TO PVC PIPE MANIFOLD. LOCATION AS SHOWN IS DIAGRAMMATIC ONLY.
F. AIR RELEASE / VACUUM VALVE, REFER TO LEGEND FOR SPECIFICATION.

I. PVC PIPE X DIAMETER SEENOTE 'C'

NOTES:
A. SET TOP OF VALVE BOX 1/2" ABOVE FINISHED GRADE IN TURF AREAS.
B. IN SHRUB AREAS INSTALL VALVE BOX 2" ABOVE SOIL LEVEL OR 1" ABOVE MUSTY LAYER, WHICHEVER IS HIGHER.
C. INSTALL IN LOCATIONS AS DESCRIBED IN THE LEGEND.
D. DISTANCE BETWEEN LATERAL PIPE (TYPICAL)

REFER TO LEGEND FOR SPECIFICATION.

E. CONTRACTOR SHALL REVIEW DRIP ZONE AREA AND LAYOUT INSTALLED WITHIN 7" ROUND VALVE BOX. CONNECTED TO PVC PIPE MANIFOLD. LOCATION AS SHOWN IS DIAGRAMMATIC ONLY.
F. AIR RELEASE / VACUUM VALVE, REFER TO LEGEND FOR SPECIFICATION.

I. PVC PIPE X DIAMETER SEENOTE 'C'