

City of Emeryville

Department of Public Works

1333 Park Avenue
Emeryville, CA 94608

PH: 510 596 3728
FAX: 510 596 4389



THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AND THE CITY PUBLIC WORKS AGENCY AT LEAST 48 HOURS (2 WORKING DAYS) PRIOR TO BEGINNING ANY EXCAVATION IN THE VICINITY OF UNDERGROUND FACILITIES.

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- 6. IP Irrigation Plans
- 7. IL Irrigation Notes
- 8. ID Irrigation Details
- 9. ID Irrigation Details
- 10. LD Landscape Details

Final Landscape Plans

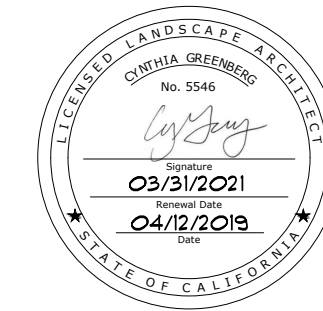
EMERYVILLE CITY HALL

DEMONSTRATION GARDEN

April 12, 2019

PLACEWORKS

LANDSCAPE ARCHITECTS



1625 SHATTUCK AVENUE, STE 300
BERKELEY, CA 94709
PH. 510 848 3815
FAX 510 848 4315

GENERAL NOTES

1. THE CONTRACTOR SHALL INSPECT THE PROJECT SITE PRIOR TO SUBMITTING A BID IN ORDER TO PRESERVE AND DETERMINE THE EXISTING JOB SITE CONDITIONS
2. THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE REQUIRED TO ASSUME COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. THESE PLANS DO NOT INCLUDE COMPONENTS NECESSARY FOR CONSTRUCTION SAFETY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE FOR THE SAFETY OF ALL PERSONS AND PROPERTY DURING THE COURSE OF THE PROJECT.
3. THE CONTRACTOR SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDERS AND CAL/OSHA. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO THE SITE OR THE SURROUNDING AREA AS A RESULT OF THE CONTRACTOR'S WORK OR OPERATIONS. EXITING CURB, GUTTER AND OTHER IMPROVEMENTS THAT ARE DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
5. ATTENTION IS DIRECTED TO THE PROVISIONS OF CHAPTER 9 OF DIVISION 3 OF THE BUSINESS AND PROFESSIONS CODE CONCERNING THE LICENSING OF CONTRACTORS. THE CONTRACTOR SHALL POSSESS A VALID CALIFORNIA CLASS A OR CLASS C-13 LICENSE AT THE TIME THIS CONTRACT IS AWARDED.
6. THE CONTRACTOR'S WORKING HOURS SHALL BE FROM 7:00 AM TO 5:00 PM, MONDAY THROUGH FRIDAY.
7. CONTRACT WORKING DAYS, MAXIMUM OF 60 DAYS
8. SCHEDULE. PRIOR TO COMMENCING WORK ON-SITE CONTRACTOR SHALL SUBMIT A SCHEDULE TO THE CITY FOR APPROVAL. SCHEDULE SHOULD DISPLAY ENTIRE SCHEDULE FOR ENTIRE CONSTRUCTION PERIOD AND INCLUDE A PROJECT BREAKDOWN TO FIT THE WORK SCHEDULE. INCLUDE PROCUREMENT PROCESS ACTIVITIES. INCLUDE REVIEW AND RESUBMITTAL TIMES. INDICATE COMPLETION IN ADVANCE OF DATE ESTABLISHED FOR SUBSTANTIAL COMPLETION AND ALLOW TIME FOR CERTIFICATION. INCLUDE CONSTRAINTS SUCH AS WORK RESTRICTIONS ON THE SCHEDULE. SCHEDULE SHOULD BE UPDATED AND RESUBMITTED TO THE CITY EVERY OTHER WEEK.
9. CONTRACTOR SHOULD START BILLING 25 DAYS AFTER THE CONTRACT IS EXECUTED.
10. CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL AND DUST CONTROL MEASURES.

ABBREVIATIONS

| | |
|--------|------------------|
| EQ. | EQUAL |
| GAL. | GALLON |
| L.O.W. | LIMIT OF WORK |
| MIN. | MINIMUM |
| NIC | NOT IN CONTRACT |
| PIP | PROTECT IN PLACE |
| TYP. | TYPICAL |

BROOKWATER IRRIGATION CONSULTANTS
IRRIGATION
480 ST. JOHN STREET SUITE 220
PLEASANTON, CA 94566
PH. 925 855 0417



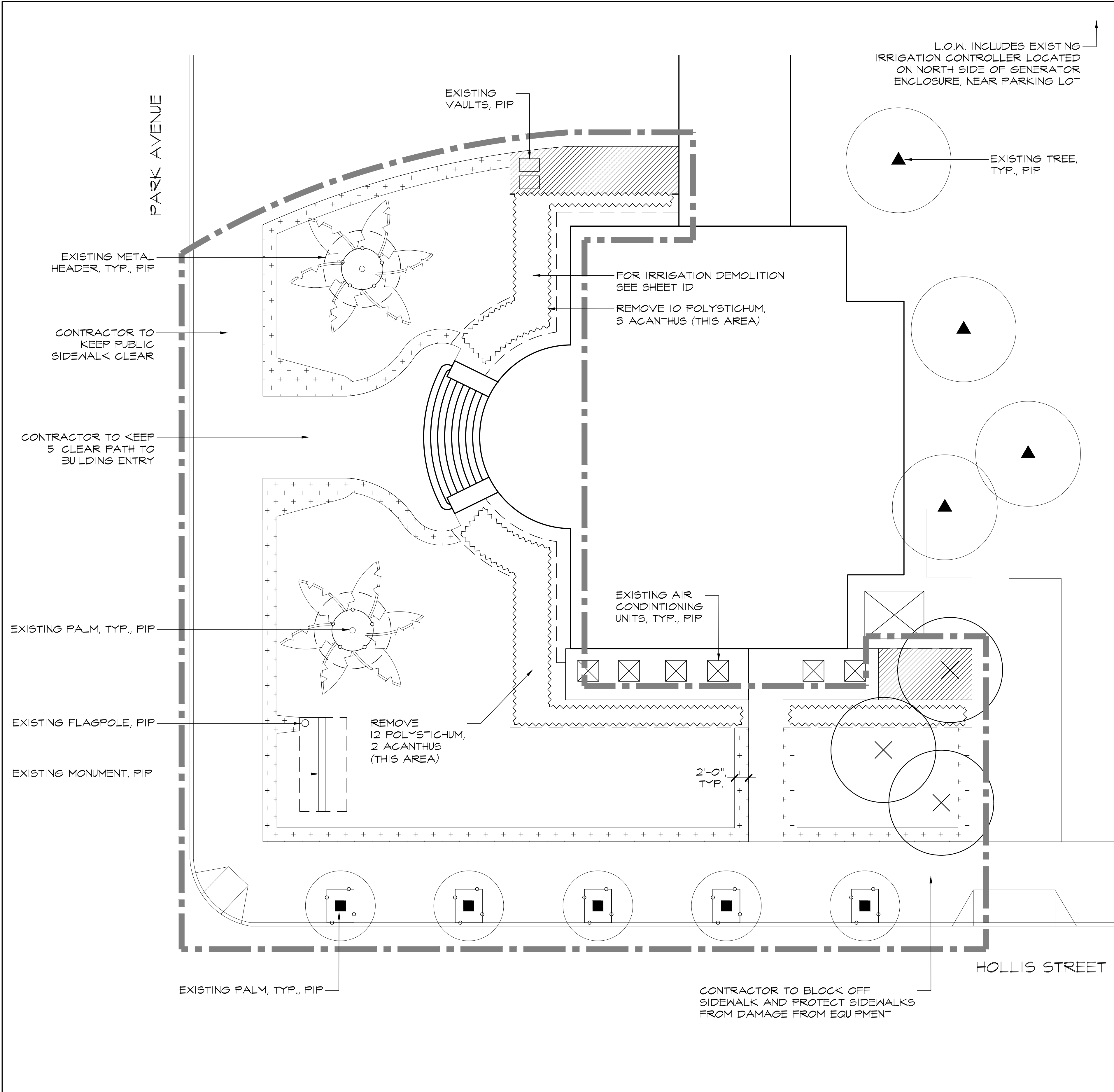
PROJECT VICINITY

Vicinity Map



PROJECT LOCATION

Location Map

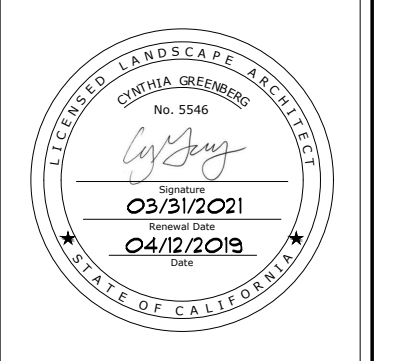
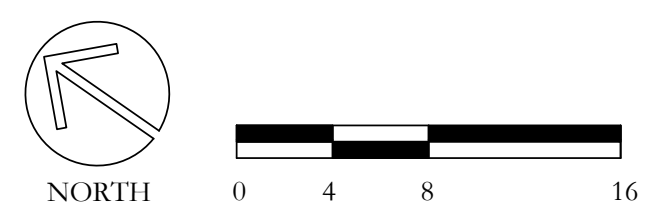


LEGEND

- REMOVE LAWN, REUSE IN SHEET MULCH (2/L4)
- TREE PROTECTION FENCING (1/L4)
- EXISTING METAL HEADER, PIP
- EXISTING CAMELIA, PITTOSPORUM AND HYDRANGEA PLANTING, PIP
- LIMIT OF WORK
- CITY TO REMOVE EXISTING TREE. GRIND AND REMOVE STUMPS. CITY TO CHIP TREE AND USE FOR MULCH IN PARKING LOT OR OTHER LANDSCAPE AREAS.
- CLEAR AND GRUB

DEMOLITION NOTES

1. PROTECT IN PLACE ALL SITE ELEMENTS UNLESS OTHERWISE NOTED.
2. CITY STAFF WILL BE RESPONSIBLE FOR DIGGING EDGES OF LAWN IN PREPARATION OF SHEET MULCHING PER DETAIL 2 SHEET L4. CONTRACTOR TO COORDINATE CONSTRUCTION SCHEDULE WITH CITY STAFF.
3. PRIOR TO THE START OF ANY WORK, THE CONTRACTOR SHALL CALL U.S.A.
4. PRIOR TO COMMENCING DEMOLITION, ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND APPROVED BY THE ENGINEER.
5. CONTRACTOR TO PROTECT FROM DAMAGE ALL STORM DRAINS, BURIED OR EXPOSED PIPES, UTILITY LINES, CULVERTS, FENCING, STRUCTURES AND ALL OTHER ITEMS TO REMAIN. SHOULD CONTRACTOR ENCOUNTER ABANDONED UTILITIES, IMMEDIATELY NOTIFY CITY FOR RESOLUTION.
6. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS IDENTIFIED ON PLAN AS PLANTING TO REMOVE. ALL AREAS UNDER EXISTING TREE CANOPIES TO REMAIN SHALL BE CLEARED BY HAND.
7. CONTRACTOR TO INSTALL CONSTRUCTION FENCING IN ALL AREAS NOT OTHERWISE SECURED AGAINST PUBLIC ENTRY FOR THE DURATION OF THE PROJECT. PROVIDE CHAIN LINK FENCE, MINIMUM HEIGHT SIX (6) FEET, WITH LOCKING GATES. LOCATION TO BE VERIFIED IN FIELD BY CITY.
8. IRRIGATION. CONTRACTOR TO DOUBLE CHECK LIMITS OF IRRIGATION BEFORE REMOVING ANY CONTROLLERS AND NOTIFY CITY IF AREAS OUTSIDE L.O.W. WILL BE AFFECTED BY TEMPORARY IRRIGATION ADJUSTMENTS. IRRIGATION HEADS, VALVES AND CONTROLLERS SHALL BE RETURNED TO THE CITY. ABANDON EXISTING LINES.
9. IT IS OUR UNDERSTANDING THAT THIS PROJECT IS EXEMPT FROM THE CITY OF EMERYVILLE CONSTRUCTION AND DEMOLITION WASTE ORDINANCE. TO COMPLY WITH BAY-FRIENDLY RATED REQUIREMENTS CONTRACTOR MUST FILL OUT AND SUBMIT THE BAY-FRIENDLY DEBRIS RECOVERY PLAN. PROJECT MUST DIVERT 50% OF CONSTRUCTION AND DEMOLITION WASTE AND 100% OF EXCAVATED SOIL AND LAND-CLEARING DEBRIS. ALTERNATIVE DAILY COVER IS NOT AN ACCEPTABLE FORM OF DIVERSION. *BAY-FRIENDLY DEBRIS RECOVERY PLAN VER.4 CAN BE DOWNLOADED AT [HTTPS://RESCAPECA.ORG/RESOURCES/FOR-COMMUNITY-LEADERS-LANDSCAPE-PROFESSIONALS/SCORECARD-TOOLS/](https://rescapeca.org/resources/for-community-leaders-landscape-professionals/scorecard-tools/). CONTRACTOR TO INCLUDE CALCULATION OF TONS OF LAWN KEPT ON SITE IN THE REUSE COLUMN. FORMULA OF 87 TONS PER ACRE, SITE IS 4531SF= 7 TONS OF LAWN/ SOIL IS BEING REUSED. *SUBMIT DEBRIS RECOVERY PLAN TO THE BAY-FRIENDLY RATER.
10. CONTRACTOR MUST SEPARATE RECYCLABLES ON THE PROJECT SITE OR AT CONTRACTOR'S YARD WITH A MINIMUM OF TWO WASTE STREAMS. WASTE STREAMS COULD INCLUDE CARDBOARD, METAL, PLANT DEBRIS, PLANT POTS FOR RETURN TO THE NURSERY, UNTREATED AND UNPAINTED LUMBER, AND FILM PLASTIC. CONTRACTOR SHALL SUBMIT PHOTO DOCUMENTATION OF EACH STREAM TO BAY-FRIENDLY RATER.



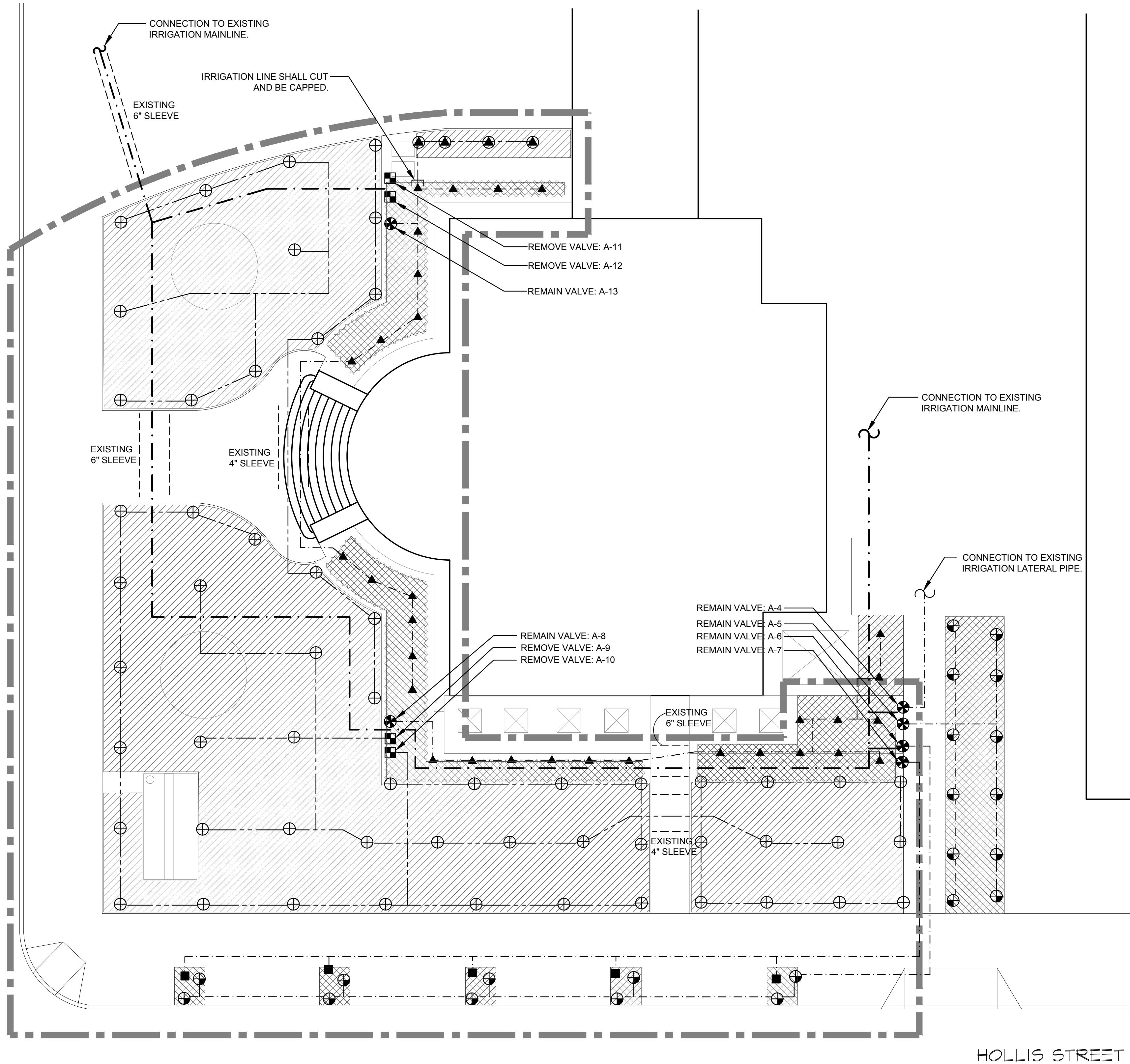
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SCALE: 1" = 8'-0"
 DATE: 04/12/19

REVISIONS:

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PARK AVENUE



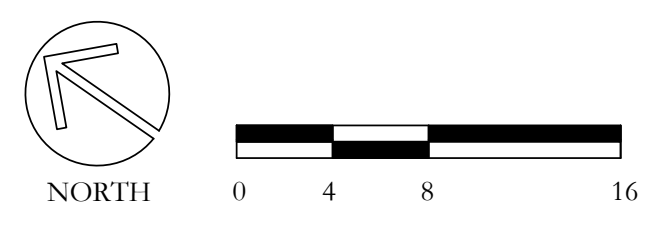
HOLLIS STREET

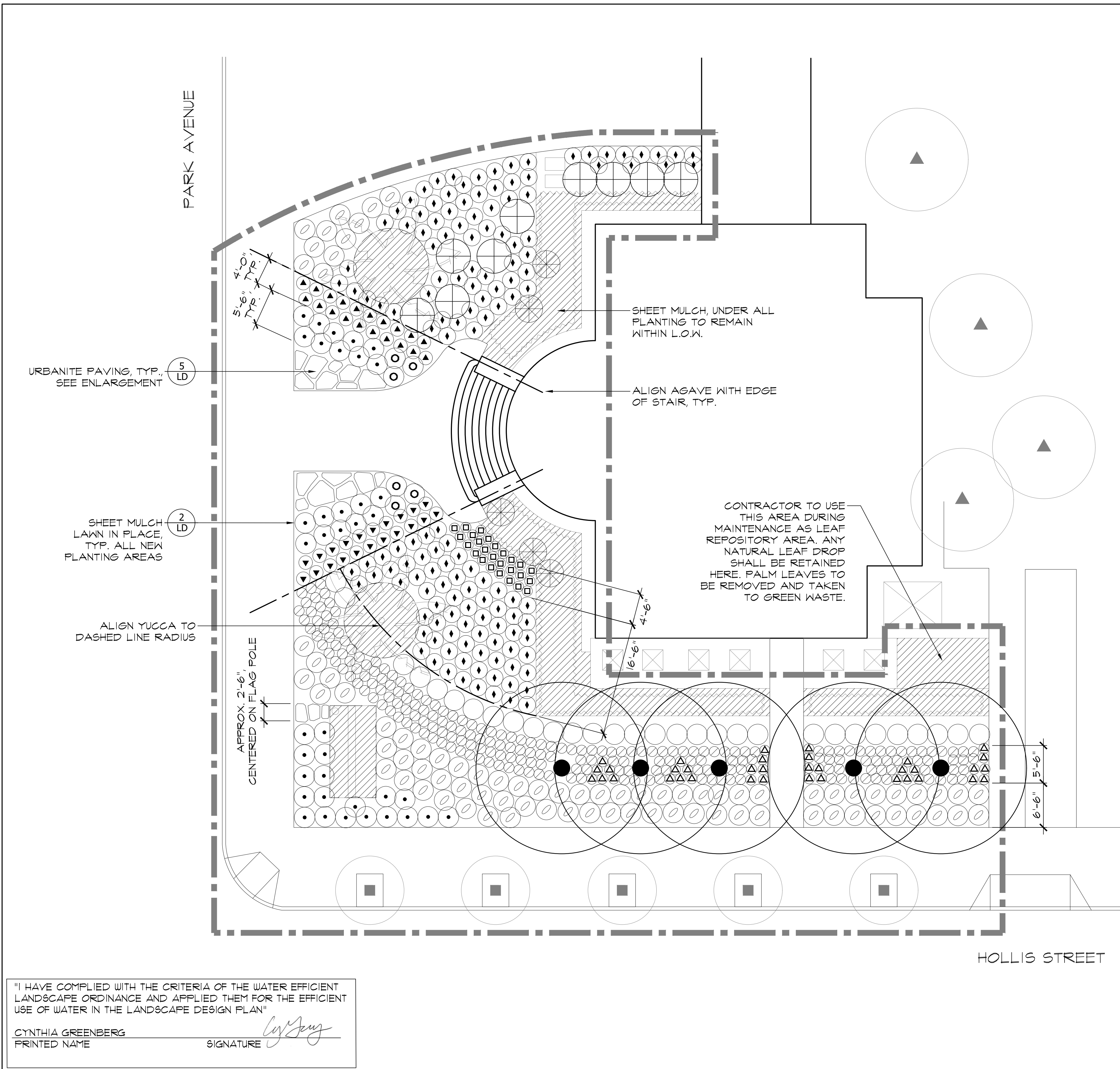
IRRIGATION DEMOLITION NOTES:

| | | |
|----|--|--|
| 1 | | EXISTING REMOTE CONTROL VALVE SHALL REMAIN PROTECTED IN PLACE AND BE RE-WIRED TO THE NEW CONTROLLER "C". CONTRACTOR SHALL EXERCISE CARE WHEN WORKING IN ADJACENT AREA. |
| 2 | | EXISTING REMOTE CONTROL VALVE SHALL BE REMOVED AND REPLACED WITH NEW REMOTE CONTROL VALVE. REFER TO IRRIGATION PLAN SHEET L1. |
| 3 | | EXISTING SHRUB BUBBLER SHALL REMAIN IN PLACE AND BE PROTECTED. CONTRACTOR SHALL EXERCISE CARE WHEN WORKING IN ADJACENT AREA. |
| 4 | | EXISTING SHRUB BUBBLER SHALL BE REMOVED. CONTRACTOR SHALL EXERCISE CARE WHEN WORKING IN AREAS ADJACENT TO EXISTING PLANTING AND IRRIGATION THAT IS TO REMAIN. |
| 5 | | EXISTING POP UP SPRAY SHALL REMAIN IN PLACE AND BE PROTECTED. CONTRACTOR SHALL EXERCISE CARE WHEN WORKING IN ADJACENT AREA. |
| 6 | | EXISTING TREE BUBBLER SHALL REMAIN IN PLACE AND BE PROTECTED. |
| 7 | | EXISTING POP UP SPRAY SHALL REMOVE. EXISTING IRRIGATION LATERAL LINES SHALL BE CUT, AND |
| 8 | | EXISTING MAINLINE SHALL REMAIN IN PLACE AND BE PROTECTED. |
| 9 | | EXISTING LATERAL LINE SHALL REMAIN IN PLACE AND BE PROTECTED. |
| 10 | | EXISTING LATERAL LINE SHALL BE ABANDONED IN PLACE. CONTRACTOR SHALL CUT THROUGH THE EXISTING LATERAL LINE TO INSTALL NEW IRRIGATION LINE IF NECESSARY. |
| 11 | | EXISTING IRRIGATION EQUIPMENTS SHALL REMAIN IN PLACE. |
| 12 | | EXISTING IRRIGATION EQUIPMENTS SHALL BE REMOVED OR ABANDONED IN PLACE. REFER TO NOTE # 7, 9 |

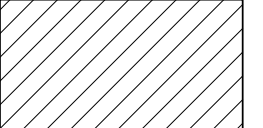

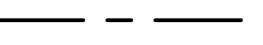

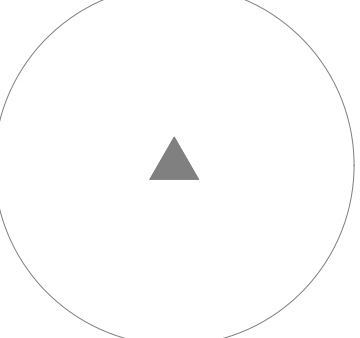
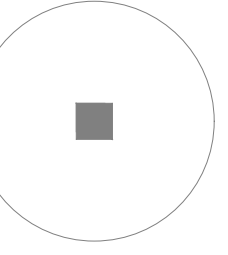
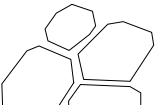
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 E-MAIL JANET@BROOKWATER.COM





LEGEND

-  SHEET MULCH ONLY, SEE SPECS
-  LIMIT OF WORK
-  PLANT LAYOUT GUIDELINE
-  EXISTING CAMELIA, PITTOSPORUM AND HYDRANGEA PLANTING TO REMAIN
-  EXISTING TREE TO REMAIN
-  EXISTING TREE TO REMAIN
-  URBANITE PAVING (5 LD)

PLANTING NOTES

1. CONTRACTOR TO VERIFY LOCATION OF UNDERGROUND UTILITY LINES. LOCATE BEFORE TRENCHING FOR IRRIGATION, DIGGING PLANT HOLES, ETC. IF CONFLICTS ARISE AT PLANT LOCATION TIME, CITY TO BE CONSULTED FOR ADJUSTMENTS PRIOR TO INSTALLATION. ADJUSTMENTS TO BE MADE BY CONTRACTOR AT NO ADDITIONAL COST.
2. PRIOR TO PLANT INSTALLATION, CLEAR ALL PLANTING AREAS OF DEBRIS. SEE SPECS.
3. PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY, SHALL HAVE NORMAL HABITS OF GROWTH, BE HEALTHY AND HAVE IDENTIFYING NURSERY TAGS ON EACH PLANT DELIVERED TO THE SITE.
4. NO SUBSTITUTE PLANT MATERIALS WILL BE PERMITTED UNLESS APPROVED BY THE LANDSCAPE ARCHITECT AND CITY.
5. PLANT LOCATIONS TO BE LAID OUT SO AS NOT TO INTERRUPT ESTABLISHED GRADING AND DRAINAGE PATTERNS.
6. SPACE GROUNDCOVERS EVENLY AS INDICATED ON DRAWINGS, STAGGERING SPACES AROUND SHRUBS AND TREES AS WELL AS OPEN AREAS.
7. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
8. SEE SHEET L3 FOR PLANTING PALETTE.

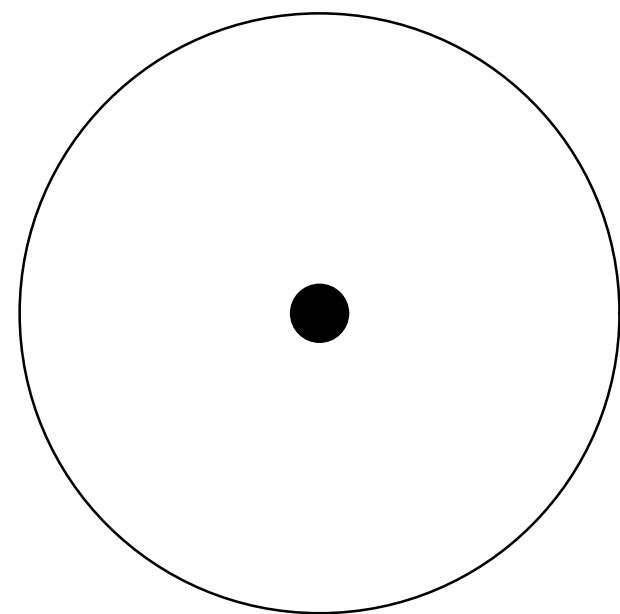
LAYOUT NOTES

1. THIS PLAN IS NOT BASED ON SURVEY INFORMATION. LOCATION OF ALL EXISTING AND PROPOSED FEATURES IS APPROXIMATE. CAD FILES FOR LAYOUT OF THIS SHEET WILL NOT BE PROVIDED. CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF FEATURES PER PLAN DIMENSIONS. ALL LAYOUT WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. CONTRACTOR SHALL VERIFY ALL GRADES, EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO COMMENCING WORK. ALL DISCREPANCIES OR QUESTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF THE LOCATIONS OF ALL UTILITIES IN THE FIELD. LOCATIONS SHOWN ON THE PLAN ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (U.S.A.) AT LEAST 48 HOURS PRIOR TO AN EXCAVATION ON THIS PROJECT (PHONE: 800-221-2600). CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR COST INCURRED DUE TO DAMAGE AND REPLACEMENT OF SAID UTILITIES.
4. ALL ANGLES ARE 45 DEGREES, 90 DEGREES OR 135 DEGREES UNLESS OTHERWISE NOTED.
5. ALL CURVES AND TRANSITIONS BETWEEN CURVES AND STRAIGHT EDGES SHALL BE SMOOTH.
6. ALL LAYOUT WORK SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE START OF ANY EXCAVATION OR CONSTRUCTION.
7. THE CONTRACTOR SHALL CONSTRUCT ALL CONCRETE WORK USING FORM LUMBER AND STAKES STRONG ENOUGH AND AT INTERVALS TO ASSURE A SMOOTH CURVE. ALL FORM WORK AND STEEL REINFORCEMENT MUST BE APPROVED BY THE ENGINEER A MINIMUM OF 48 HOURS PRIOR TO POURING OF ANY CONCRETE.
8. CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL.

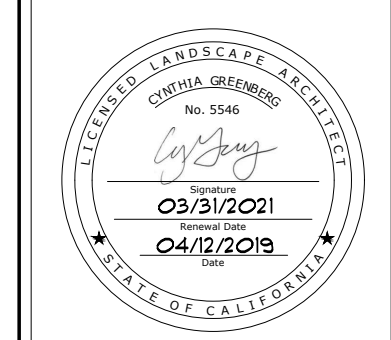
"I HAVE COMPLIED WITH THE CRITERIA OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN"

CYNTHIA GREENBERG
PRINTED NAME

Cynthia Greenberg
SIGNATURE



| Quantity | Symbol | Botanical Name | Common Name | Size | Water Use ¹ | Reference ¹ | Adjacent to Obstruction? | Project Spread ² | Min-Max Spread ³ | Height | Reference Book ³ | Invasive ⁴ | Native ⁵ |
|---|------------|------------------------------------|---------------------------|---------|------------------------|------------------------|--------------------------|-----------------------------|-----------------------------|---------|-----------------------------|-----------------------|---------------------|
| TREES | | | | | | | | | | | | | |
| 9 | | Cornus alba 'Siberica' | Tatarian Dogwood | 5 Gal | M | WUCOLS | N | 5' | 5' | 7' | Sunset | N | N |
| 5 | (See Left) | Olea europaea 'Swan Hill' | Swan Hill Olive | 24" box | VL | WUCOLS | N | 25' | 25-30' | 25-30' | Sunset | N | N |
| SHRUBS / GROUNDCOVER / GRASSES | | | | | | | | | | | | | |
| 42 | | Agave parryi va truncata | Artichoke Agave | 5 Gal | L | WUCOLS | N | 2' | 2-3' | 2-3' | Sunset | N | N |
| 213 | | Bouteloua gracilis blonde ambition | Blue Grama Grass | 1 Gal | VL | WUCOLS | Y | 1' | 1' | 1.5'-2' | Sunset | N | N |
| 66 | | Dymondia margaretae | Silver Carpet | 4" pots | L | WUCOLS | Y | 1.5' | 1.5' | 3" | Sunset | N | N |
| 36 | | Echinacea paradoxa | Yellow Coneflower | 5 Gal | M | WUCOLS | N | 1.5' | 1.5' | 2-3' | Missouri Bot. Garden | N | N |
| 39 | | Helianthemum 'Henfield Brilliant' | Sunrose | 1 Gal | L | WUCOLS | Y | 3' | 3' | 6-8" | Sunset | N | N |
| 30 | | Hesperaloe parviflora | Texas Red Yucca | 5 Gal | L | WUCOLS | N | 3' | 3-4' | 3-4' | Sunset | N | N |
| 26 | | Heuchera micrantha 'Palace Purple' | Palace Purple Coral Bells | 1 Gal | M | WUCOLS | N | 1.5' | 1.5' | 1.5' | Sunset | N | N |
| 5 | | Hydrangea microphylla | Big Leaf Hydrangea | 1 Gal | M | WUCOLS | N | 4' | 4'-8' | 4'-8' | Sunset | N | N |
| 6 | | Kniphofia uvaria 'Famenco' | Flamenco Red Hot Poker | 5 Gal | L | WUCOLS | Y | 3' | 3' | 3' | Sunset | N | N |
| 144 | | Lomandra longifolia 'Breeze' | Dwarf Mat Rush | 1 Gal | L | WUCOLS | Y | 2.5' | 2-4' | 2-4' | San Marcos | N | N |
| 81 | | Salvia sonomensis | Creeping Sage | 1 Gal | L | WUCOLS | Y | 3' | 3-4' | 1' | Sunset | N | Y |
| Total Plants | | | | | | | | | | | | | |
| 702 | | | | | | | | | | | | | 12% |
| ¹ Water Use Classification of Landscape Species published by the University of California Cooperative Extension and the Department of Water Resources (WUCOLS) or other sources approved by the California Department of Water Resources (DWR) | | | | | | | | | | | | | |
| ² This is the spread of each plant as drawn on the project plans. | | | | | | | | | | | | | |
| ³ This is the spread of each plant according to a published third-party reference. | | | | | | | | | | | | | |
| ⁴ Plants listed as invasive in Cal-IPC's Don't Plant a Pest brochure are not allowed on the project. To earn additional points fill out the column marked as "invasive" (Practice E.3). Additional points will be earned if no plants are installed that are listed as invasive in the project's region by the California Invasive Plant Inventory Database. | | | | | | | | | | | | | |
| ⁵ Native plants must be California native species according to a published third party reference. The % native is calculated by individual plant. Multiple cultivars of the same species may not be counted individually. For example, as members of the same species, Baccharis pilularis 'Pigeon Point' and 'Twin Peaks' are counted as one species. Existing plants to remain are exempt. | | | | | | | | | | | | | |
| Note: For more information see the Bay-Friendly Rating Manual for Civic, Commercial and Multifamily Landscapes | | | | | | | | | | | | | |



PROJECT TITLE:
**Emeryville City Hall
 Demonstration Garden**
 City of Emeryville
 Alameda County
 Emeryville
 California

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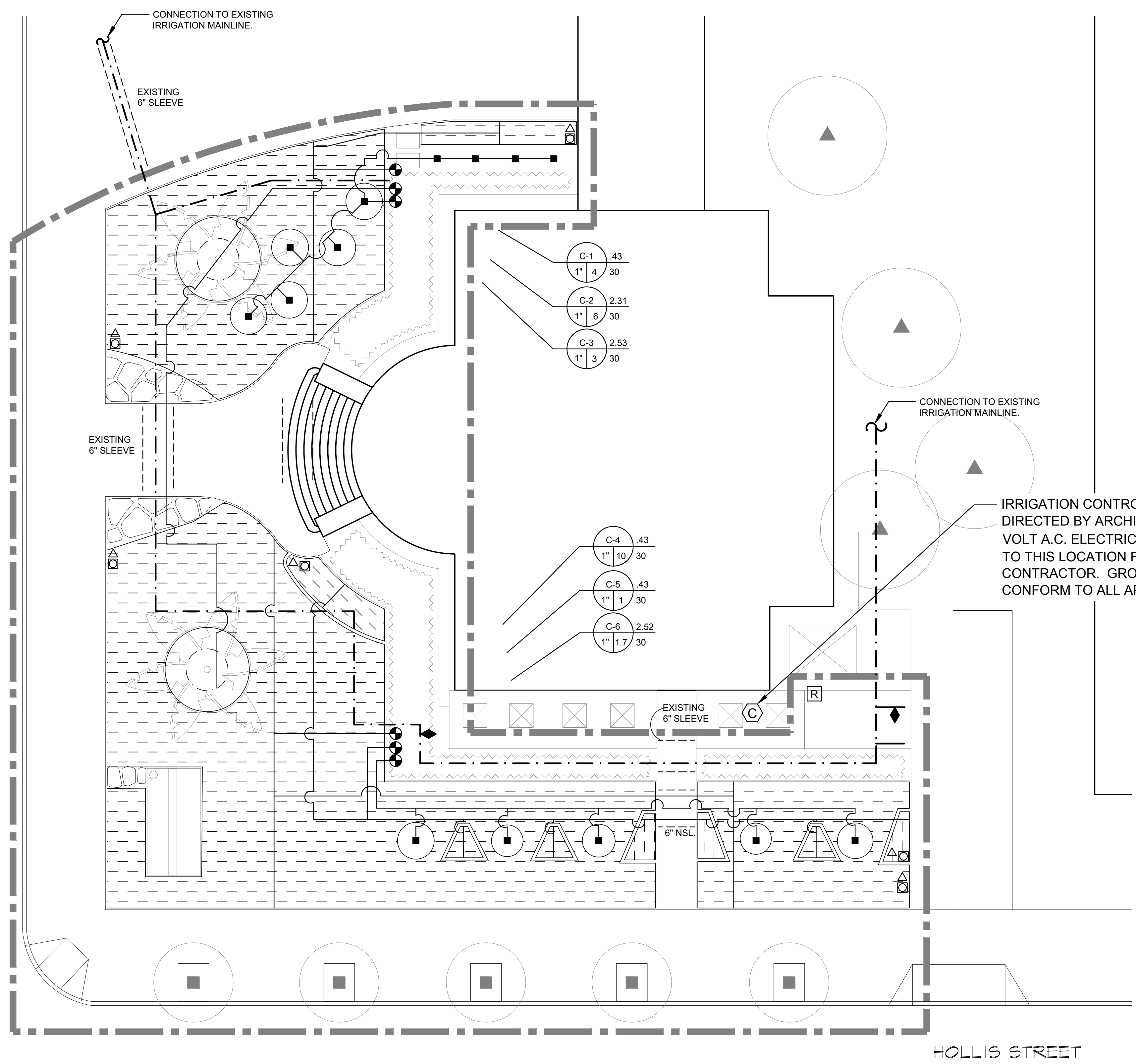
DRAWING TITLE:
Planting Legend

SCALE: 1" = 8'-0"
 DATE: 04/12/19
 REVISIONS:

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-

DRAWING NO:
PL
 SHEET 5 OF 10 SHEETS

PARK AVENUE



- NOTE:
1. IRRIGATION DEMAND: 10 GPM AT 65 PSI. FIELD VERIFY STATIC WATER PRESSURE PRIOR TO STARTING ANY WORK. IF PRESSURE VARIES FROM REQUIRED PRESSURE STATED ABOVE, NOTIFY LANDSCAPE ARCHITECT FOR FURTHER INSTRUCTION.
 2. SEE IRRIGATION DEMOLITION PLAN FOR EXISTING IRRIGATION.

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DRAWING TITLE:
Irrigation Plan

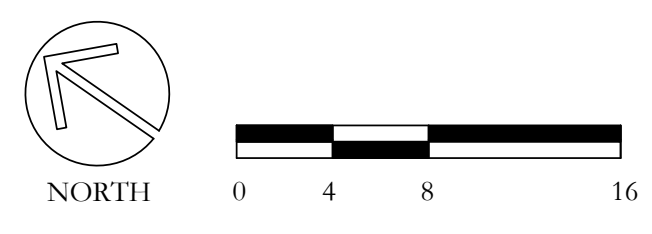
SCALE: 1" = 8'-0"
 DATE: 4/12/19

REVISIONS:

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DRAWING NO:
IP
 SHEET 6 OF 10 SHEETS

BROOKWATER
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 PLEASANTON, CALIFORNIA 94566
 TEL 925.855.0417 FAX 925.855.0357
 E-MAIL JANET@BROOKWATER.COM



IRRIGATION NOTES

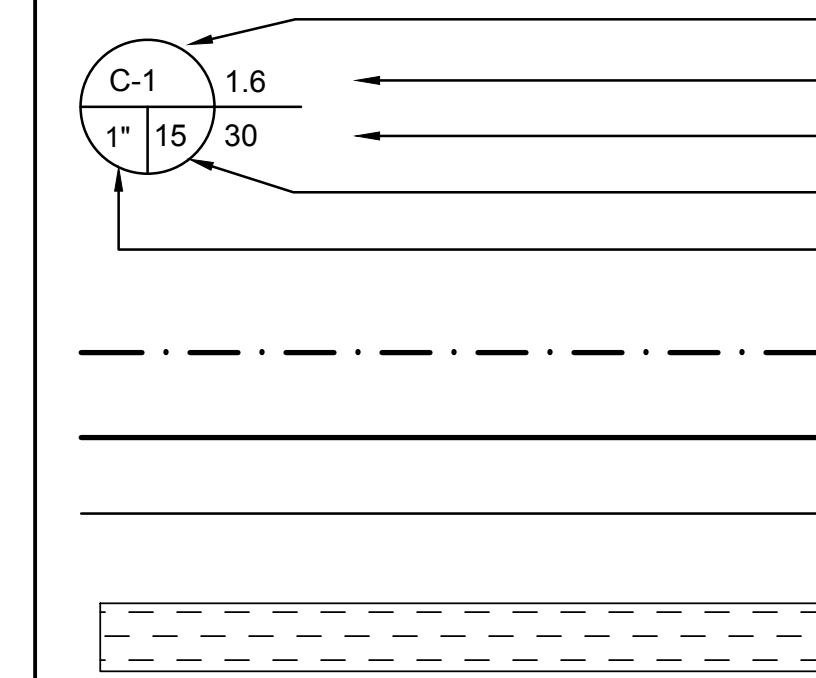
- THE CONTRACTOR SHALL REVIEW RELATED DRAWINGS AND SHALL ENSURE COORDINATION WITH ALL APPLICABLE TRADES PRIOR TO SUBMITTING BID.
- THE IRRIGATION SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES BY LICENSED CONTRACTORS AND EXPERIENCED WORKERS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES RELATING TO THEIR WORK.
- THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM, PLANTING AND ARCHITECTURAL FEATURES. PARALLEL PIPES MAY BE INSTALLED IN COMMON TRENCH. PIPES ARE NOT TO BE INSTALLED DIRECTLY ABOVE ONE ANOTHER.
- DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC. COORDINATE WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC. CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO THE EXCAVATION OF TRENCHES. CONTRACTOR IS TO REPAIR ANY DAMAGE CAUSED BY THEIR WORK AT NO ADDITIONAL COST TO THE OWNER.
- DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAY BE REQUIRED. CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL WORK AND PLAN WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED, THE WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS, PLANTING, AND ARCHITECTURAL FEATURES.
- ELECTRICAL CONTRACTOR TO SUPPLY 120 VAC (2.5 AMP) SERVICE TO CONTROLLER LOCATION. IRRIGATION CONTRACTOR TO MAKE FINAL CONNECTION FROM ELECTRICAL STUB-OUT TO CONTROLLER. IRRIGATION CONTROL WIRE SHALL BE #14, U.L. APPROVED FOR DIRECT BURIAL. COMMON WIRE SHALL BE #12 U.L. APPROVED AND SHALL BE WHITE IN COLOR. WIRING TO INDIVIDUAL REMOTE CONTROL VALVES SHALL BE COLOR OTHER THAN WHITE.
- EACH CONTROLLER SHALL HAVE ITS OWN INDEPENDENT GROUND WIRE.
- REMOTE CONTROL VALVES SHALL BE WIRED TO CONTROLLER IN SEQUENCE AS SHOWN ON PLANS. RUN WIRE FROM EACH RCV TO THE CONTROLLER. SPLICING WIRES TOGETHER OUTSIDE OF VALVE BOXES WILL NOT BE PERMITTED.
- SPLICING OF 24-VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 36" COIL OF EXCESS WIRE AT EACH SPLICE AND 100 FEET ON CENTER ALONG WIRE RUN. TAPE WIRE IN BUNDLES 10 FEET ON CENTER. NO TAPING PERMITTED INSIDE SLEEVES.
- WIRE CONNECTORS SHALL BE 3M-DBRY-6 DIRECT BURY UNLESS OTHERWISE NOTED.
- INSTALL ONE (1) SPARE CONTROL WIRE FOR EVERY 6 (SIX) STATIONS ON THE CONTROLLER ALONG THE ENTIRE MAIN LINE. SPARE WIRES SHALL BE THE SAME COLOR (ONE WITH A WHITE STRIPE) AND OF A DIFFERENT COLOR THAN OTHER CONTROL WIRES. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES.
- VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN GROUND COVER/SHRUB AREAS WHERE POSSIBLE.
- INSTALL VALVE BOXES MINIMUM 12" FROM AND PERPENDICULAR TO WALK, CURB, BUILDING OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, ETC. AND EACH BOX SHALL BE MINIMUM 12" APART. SHORT SIDE OF VALVE BOXES SHALL BE PARALLEL TO WALK, CURB, ETC.
- PRESSURE REGULATING DEVICES ARE REQUIRED IF WATER PRESSURE IS BELOW OR EXCEEDS THE RECOMMENDED PRESSURE OF THE SPECIFIED IRRIGATION DEVICES.
- LOCATE QUICK COUPLING VALVE 12" FROM HARDSCAPE AREA.
- CHECK VALVES OR ANTI-DRAIN VALVES ARE REQUIRED ON ALL SPRINKLER HEADS WHERE LOW POINT DRAINAGE COULD OCCUR. FOR DRIP OR BUBBLER CIRCUITS, INSTALL KING BROS. CV SERIES CHECK VALVES IN LATERAL LINES FOR EVERY 10' OF ELEVATION CHANGE.
- ALL MAIN LINES SHALL BE FLUSHED PRIOR TO THE INSTALLATION OF IRRIGATION BUBBLERS AND DRIP TUBING. AT 30 DAYS AFTER INSTALLATION EACH SYSTEM SHALL BE FLUSHED TO ELIMINATE GLUE AND DIRT PARTICLES FROM THE LINES.
- NOTIFY ARCHITECT OF ANY ASPECTS OF LAYOUT THAT WILL PROVIDE INCOMPLETE OR INSUFFICIENT WATER COVERAGE OF PLANT MATERIAL AND DO NOT PROCEED UNTIL HIS/HER INSTRUCTIONS ARE OBTAINED.
- IN ADDITION TO THE SLEEVES AND CONDUITS SHOWN ON THE DRAWINGS, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF SLEEVES AND CONDUITS OF SUFFICIENT SIZE UNDER ALL PAVED AREAS.
- ALL EXCAVATIONS ARE TO BE FILLED WITH COMPACTED BACKFILL. REPAIR ALL SETTLED TRENCHES PROMPTLY, FOR A PERIOD OF 1 YEAR AFTER COMPLETION OF WORK.
- CONTRACTOR SHALL WARRANT THAT THE IRRIGATION SYSTEM WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF 1 YEAR AFTER FINAL ACCEPTANCE OF WORK.
- WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, USE ALL POSSIBLE CARE TO AVOID INJURY TO TREES, AND TREE ROOTS. EXCAVATION IN AREAS WHERE 2 INCH AND LARGER ROOTS OCCUR SHALL BE DONE BY HAND. ROOTS 2 INCHES AND LARGER IN DIAMETER SHALL BE WRAPPED IN A PLASTIC BAG AND SECURED WITH A RUBBER BAND. TRENCHES ADJACENT TO TREE SHOULD BE CLOSED WITHIN 24 HOURS; WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE SHALL BE KEPT SHADED WITH BURLAP OR CANVAS.
- THE SPRINKLER SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.
- IRRIGATION DEMAND: REFER TO IRRIGATION POINTS OF CONNECTION.
- CONTRACTOR SHALL VERIFY REMOTE AND WEATHER SENSOR RECEPTION TO THE RECEIVER PRIOR TO INSTALLING THE CONTROLLER. IF SIGNAL IS TOO WEAK, EXTEND THE RECEIVER OUT TO A MAXIMUM OF 10' FROM THE CONTROLLER USING A 6 PIN PHONE CABLE WITH FEMALE ADAPTER. IF RECEPTION IS STILL TOO WEAK, CONTACT THE LANDSCAPE ARCHITECT FOR FURTHER INSTRUCTION.
- OPERATE IRRIGATION CONTROLLER(S) BETWEEN THE HOURS OF 10:00 PM AND 7:00 AM.
- NOTIFY ALL LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.
- NOTIFY UNDERGROUND SERVICE ALERT AT 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.
- A DIAGRAM OF THE IRRIGATION PLAN SHOWING HYDROZONES SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES.
- A CERTIFICATE OF COMPLETION SHALL BE FILLED OUT AND CERTIFIED BY EITHER THE DESIGNER OF THE LANDSCAPE PLANS, IRRIGATION PLANS, OR THE LICENSED LANDSCAPE CONTRACTOR FOR THE PROJECT.
- AN IRRIGATION AUDIT REPORT SHALL BE COMPLETED AT THE TIME OF FINAL INSPECTION.

DRIPLINE NOTES:

- PLANS ARE DIAGRAMMATIC. INSTALL DRIPLINE AND COMPONENTS PER MANUFACTURERS INSTRUCTIONS AND INSTALLATION DETAILS.
- INSTALL DRIPLINE A MAXIMUM OF 18" APART WITH EMITTERS TRIANGULARLY SPACED. INSTALL 2" FROM PERIMETER OF PLANTED AREA. THERE SHOULD BE A MINIMUM OF TWO DRIPLINE LATERALS IN EACH PLANTED AREA. DRIPLINE SHALL BE INSTALLED AT A CONSISTANT DEPTH THROUGHOUT THE CIRCUIT.
- PLACE FLUSH VALVES AT THE HYDRAULIC CENTER OF THE EXHAUST HEADER OR AT LOW POINT ON SLOPES.
- INSTALL IN-LINE CHECK VALVES ON SLOPES GREATER THAN 3% AND WHERE LOW-LINE DRAINAGE COULD CAUSE WET AREAS IN THE LOWEST AREAS OF AN IRRIGATION ZONE. CHECK VALVES SHALL BE PLACED EVERY 4-5 FEET BETWEEN DRIPLINE LATERALS AND BEFORE THE FLUSH VALVE.
- ON ALL SLOPES AND MOUNDS, PLACE THE DRIPLINE LATERALS PARALLEL TO THE SLOPE CONTOUR WHERE POSSIBLE. INCREASE THE LATERAL SPACING BY 25% ON THE LOWER ONE-THIRD OF THE SLOPE TO AVOID EXCESS DRAINAGE.
- PVC SUPPLY AND FLUSH LINE SIZING GUIDE (ALL SUPPLY AND FLUSH LINES SHALL BE THE SAME SIZE FOR THE ENTIRE ZONE):
 - 0-8 GPM – 3/4"
 - 8.1-15 GPM – 1"
 - 15.1-25 GPM – 1 1/4"
- FITTINGS SHALL BE OF THE SAME MANUFACTURER AS DRIPLINE.
- STAPLE DRIPLINE TO GROUND EVERY 2 FEET. USE ADDITIONAL STAPLES OVER EACH TEE, ELBOW OR CROSS. USE U-SHAPED STAPLES TO AVOID PINCHING THE DRIPLINE.
- THOROUGHLY FLUSH EACH INSTALLATION SEGMENT TO ENSURE NO DEBRIS CONTAMINATION OCCURS.
- RUN THE DRIPLINE SYSTEM EVERY DAY OR EVERY OTHER DAY TO ESTABLISH PLANT MATERIAL. MAINTAIN A CONSISTENT MOISTURE BALANCE IN THE SOIL. IT IS IMPORTANT TO KEEP THE SOIL MOIST WITHOUT SATURATION.

IRRIGATION LEGEND

| SYMBOL | MODEL NUMBER | DESCRIPTION | PSI | FLOW RATE (GPM) |
|-----------|----------------------------|--|-----|-----------------|
| ■ | PCT-10 | RAIN BIRD PRESSURE COMPENSATING DRIP BUBBLER INSTALL TWO BUBBLERS PER TREE | 40 | 10 GPH |
| ○ | XFD-09-12 | DRIPLINE RING IRRIGATION FOR EXISTING PALM TREES: .9 GPH EMITTERS 12" SPACING | | |
| NOT SHOWN | ARV-050 | RAIN BIRD AIR VENT | | |
| △ | WLT-0500-S | KBI 1/2" SCH. 40 PVC BALL VALVE FOR FLUSHING | | |
| □ | OPERIND | RAIN BIRD OPERATION INDICATOR | | |
| ⊙ | XCZ-100-PRB-LC / LT-1000-T | RAIN BIRD DRIP ZONE KIT - INCL. REMOTE CONTROL VALVE, 200 MESH STAINLESS STEEL SCREEN, AND PRESSURE REGULATOR / KBI SCH 80 PVC BALL VALVE. | | |
| ◆ | - | EXISTING QUICK COUPLING VALVE | | |
| R | WSS-SEN | HUNTER SOLAR SYNC WIRELESS WEATHER SENSOR | | |
| ⊕ | IC-1200-PL ROAM-KIT | HUNTER 1-CORE MODULAR CONTROLLER (12 STATIONS) - WALL MOUNT HUNTER MAINTENANCE REMOTE | | |
| | | CONTROLLER AND STATION NUMBER | | |
| | | APPLICATION RATE (INCHES) | | |
| | | OPERATING PRESSURE (PSI) OR AIR RELIEF VALVE QUANTITY | | |
| | | APPROXIMATE GALLONS PER MINUTE | | |
| | | REMOTE CONTROL VALVE SIZE | | |
| | | MAIN LINE: EXISTING | | |
| | | MAIN LINE: NEW MAINLINE PIPING. MATCH EXISTING SIZE AND TYPE | | |
| | | LATERAL LINE: 1120-CLASS 200 PSI PVC SOLVENT WELD PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 12" COVER. | | |
| | | SUB-SURFACE DRIPLINE: RAIN BIRD XFS-06-18 DRIPLINE WITH COPPER SHIELD TECHNOLOGY. USE ONLY RAIN BIRD XF INSERT FITTINGS. 2" COVER. (18" EMITTER SPACING: .6 GPH PER EMITTER) | | |
| | | NEW SLEEVE (NSL): 1120-CLASS 200 PVC PLASTIC PIPE. 24" COVER. | | |



| CITY OF EMERYVILLE LANDSCAPE WATER USE STATEMENT | |
|---|--|
| PROJECT NAME: | EMERYVILLE CITY HALL CITY OF EMERYVILLE |
| PROJECT ADDRESS: | |
| PREPARED BY: | JANET LUEHR'S (CID, CLIA #43274) BROOKWATER INC., IRRIGATION CONSULTANTS 480 SAINT JOHN STREET, SUITE 220 PLEASANTON, CA 94566 925-855-0417 925-855-0357 (FAX) janet@brookwater.com (e-mail) |
| "I have compiled with the criteria of the Water Efficient Landscape Ordinance and applied them accordingly for the efficient use of water in the irrigation design plan." | |
| Signed: <i>Janet Luehr's</i> | |
| PART ONE | MAXIMUM APPLIED WATER ALLOWANCE (MAWA) |
| MAWA = Eto x .62 x ((ETAFx HA) + ((1-ETAF) x SLA)) | |
| YEARLY Eto | 46.3 |
| CONVERSION FACTOR | 0.62 |
| ETAF | 0.45 |
| TOTAL IRRIGATED LANDSCAPE AREA (HA) | 3,349 SQUARE FEET |
| SPECIAL LANDSCAPE AREA (SLA) | 0 SQUARE FEET |
| LANDSCAPE WATER ALLOWANCE | 43,252 GALLONS PER YEAR |
| TOTAL ACRE FEET | 0.13 ACRE FEET |
| PART TWO | ESTIMATED TOTAL WATER USE (ETWU) |
| (AVERAGE ETAF AND ETWU FROM WATER EFFICIENT LANDSCAPE WORKSHEET) | |
| AVERAGE ETAF FOR REGULAR LANDSCAPE AREAS (TOTAL ETAF x AREA / TOTAL AREA) | 0.39 |
| ETWU FOR REGULAR LANDSCAPE AREAS | 37,335 GALLONS PER YEAR |
| SITE WIDE ETAF | 0.39 |
| ETWU FOR ALL LANDSCAPE AREAS | 37,335 GALLONS PER YEAR |
| TOTAL ACRE FEET | 0.11 ACRE FEET |

| EMERYVILLE CITY HALL WATER EFFICIENT LANDSCAPE WORKSHEET | | | | | | | | | | | |
|---|---------------|------------------------------|-------------------|---------------------|----------------------------|--------------|-----------------------------|--------------|----------------------------------|------------------|--|
| Reference Evapotranspiration (Eto) | | 46.29 | | | | | | | | | |
| ZONE NO. | PLANT TYPE | HYDROZONE* (PLANT WATER USE) | PLANT FACTOR (PF) | IRRIGATION METHOD** | IRRIGATION EFFICIENCY (IE) | ETAF (PF/IE) | HYDROZONE AREA (HA) (Sq Ft) | ETAF x HA | ESTIMATED TOTAL WATER USE (ETWU) | % LANDSCAPE AREA | |
| REGULAR LANDSCAPE AREA | | | | | | | | | | | |
| C-1 | SHRUB | LW | 0.30 | DL | 0.81 | 0.37 | 902 | 334 | 9,588 | 26.9% | |
| C-2 | EXISTING PALM | LW | 0.30 | DL | 0.81 | 0.37 | 25 | 9 | 266 | 0.7% | |
| C-3 | TREE | MW | 0.50 | B | 0.81 | 0.62 | 113 | 70 | 2,002 | 3.4% | |
| C-4 | SHRUB | LW | 0.30 | DL | 0.81 | 0.37 | 2,114 | 783 | 22,471 | 63.1% | |
| C-5 | SHRUB | MW | 0.50 | DL | 0.81 | 0.62 | 132 | 81 | 2,339 | 3.9% | |
| C-6 | TREE | LW | 0.30 | B | 0.81 | 0.37 | 63 | 23 | 670 | 1.9% | |
| TOTALS (REGULAR LANDSCAPE AREAS) | | | | | | | 3,349 | 1,301 | 37,335 | 100.0% | |
| SPECIAL LANDSCAPE AREA | | | | | | | | | | | |
| TOTALS (SPECIAL LANDSCAPE AREAS) | | | | | | | 0 | 0 | 0 | 0.0% | |
| TOTALS FOR ALL AREAS | | | | | | | 3,349 | 1,301 | 37,335 | 100% | |

| HYDROZONE SUMMARY | | |
|---------------------------------|----------------|----------------|
| *Hydrozone Description | Total Sq. Ft. | % of Landscape |
| Cool Season Turf (CST) | 0 | 0.0% |
| Warm Season Turf (WST) | 0 | 0.0% |
| High Water Use Plants (HW) | 0 | 0.0% |
| Bioretention Plants (BR) | 0 | 0.0% |
| Medium Water Use Plants (MW) | 245 | 7.3% |
| Low Water Use Plants (LW) | 3,104 | 92.7% |
| Very Low Water Use Plants (VLW) | 0 | 0.0% |
| Water Feature | 0 | 0.0% |
| Special Landscape Area (SLA) | 0 | 0.0% |
| TOTAL | 3,349 | 100.0% |
| **Irrigation Method | | |
| Total Sq. Ft. | % of Landscape | |
| Rotor (FC-R, PC-R) | 0 | 0.0% |
| Multi-Stream Rotator (MR) | 0 | 0.0% |
| Spray (S) | 0 | 0.0% |
| Bubbler (B) | 178 | 5.3% |
| Drip (D) | 0 | 0.0% |
| In-Line Drip (DL) | 3,173 | 94.7% |
| Micro Spray (MS) | 0 | 0.0% |
| Other (O) | 0 | 0.0% |

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E-MAIL JANET@BROOKWATER.COM

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BERKELEY, CA 94709
(510) 848.3815 PHONE
(510) 848.4315 FAX

Emeryville City Hall
Demonstration Garden
City of Emeryville
Alameda County
California

PROJECT TITLE:

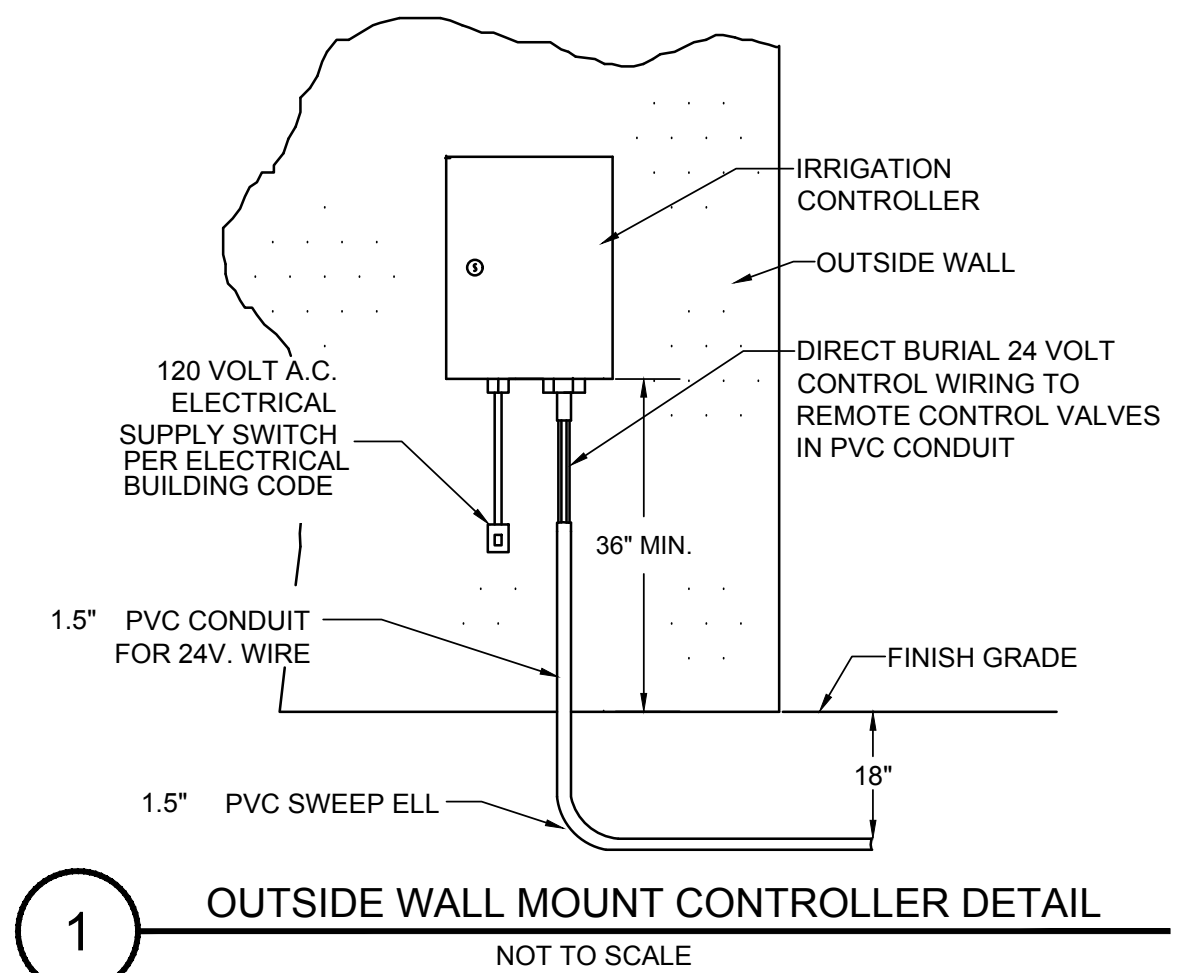
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DRAWING TITLE:
Irrigation Legend and Notes

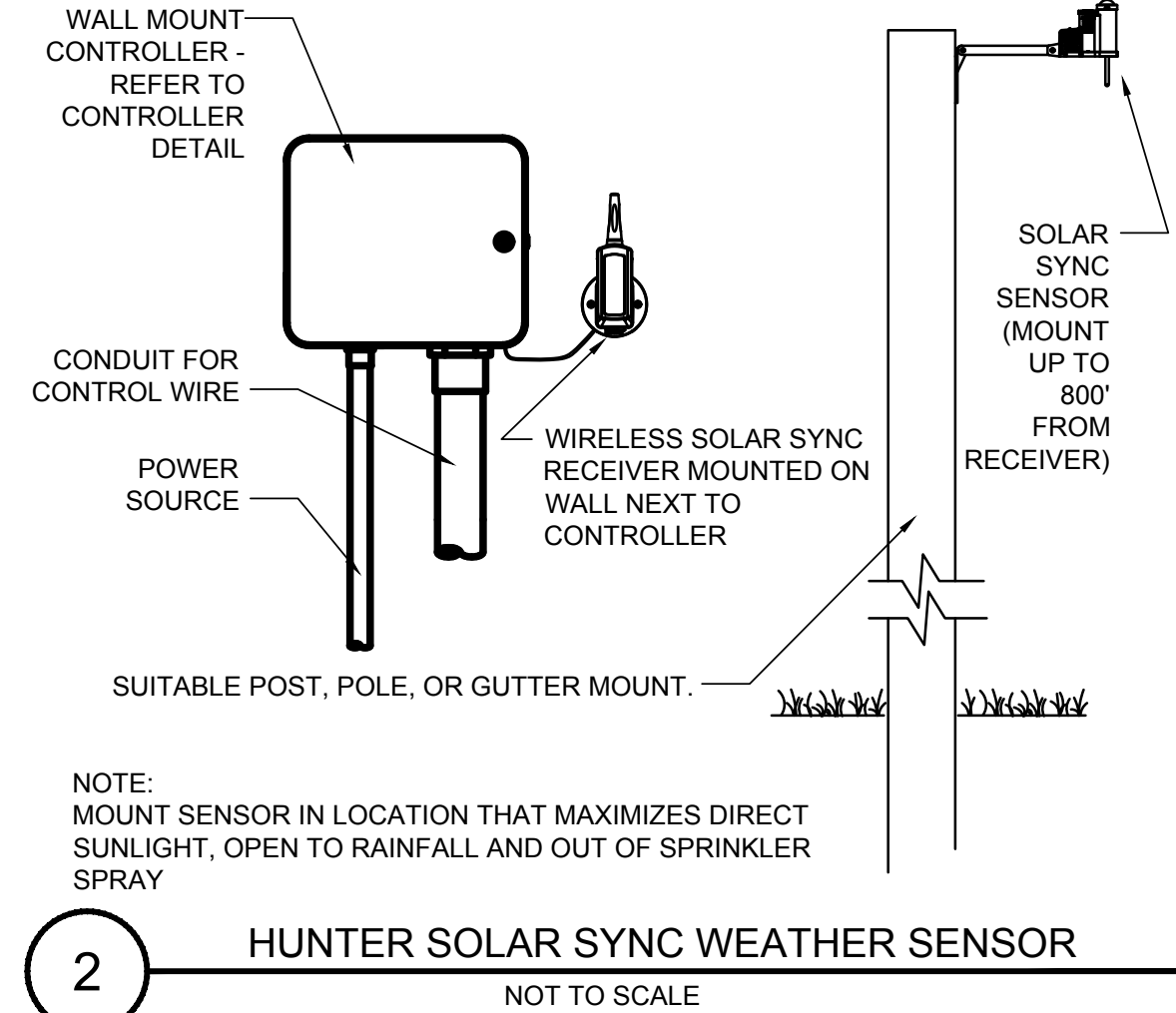
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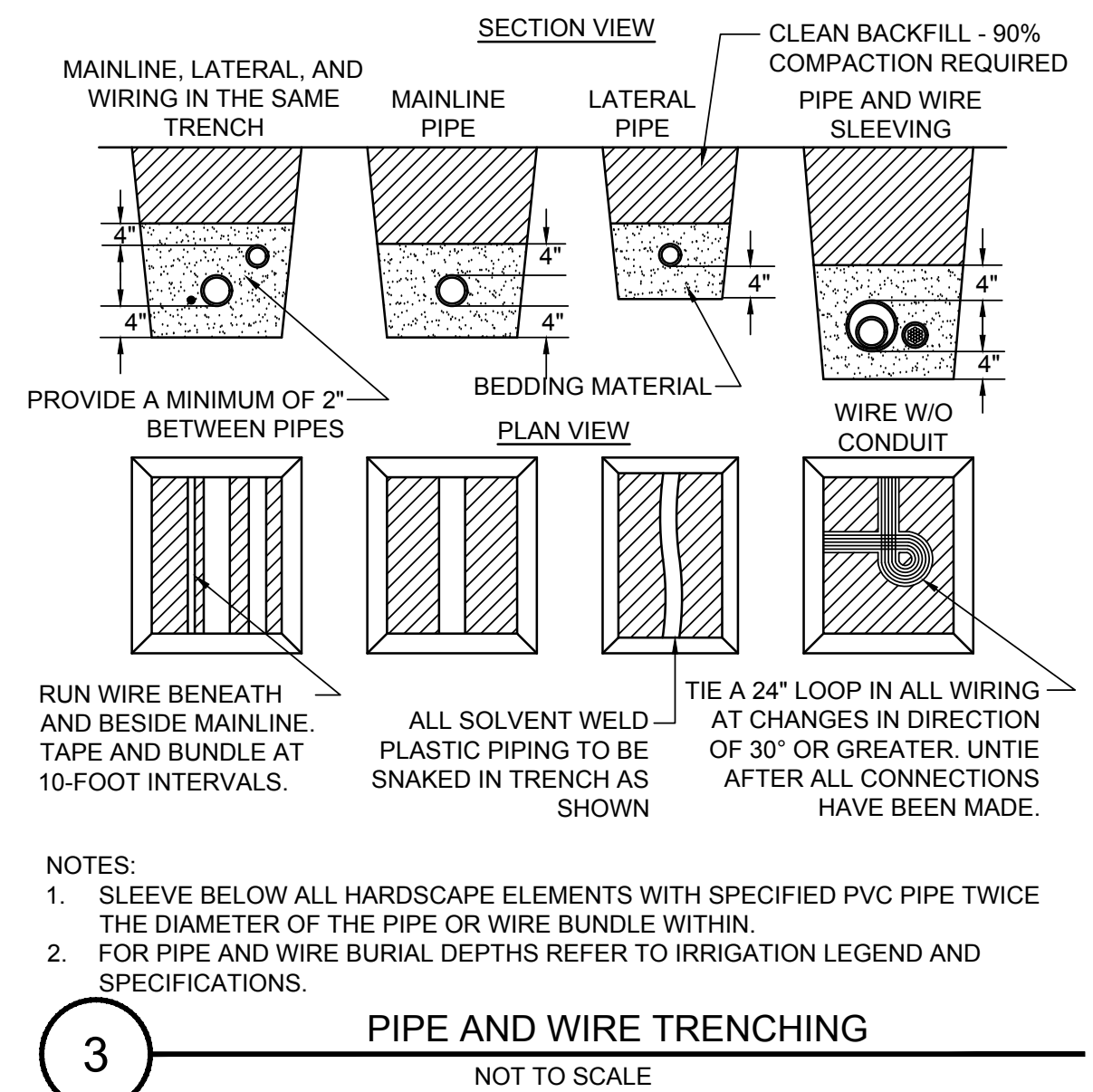
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IL
SHEET 7 OF 10 SHEETS



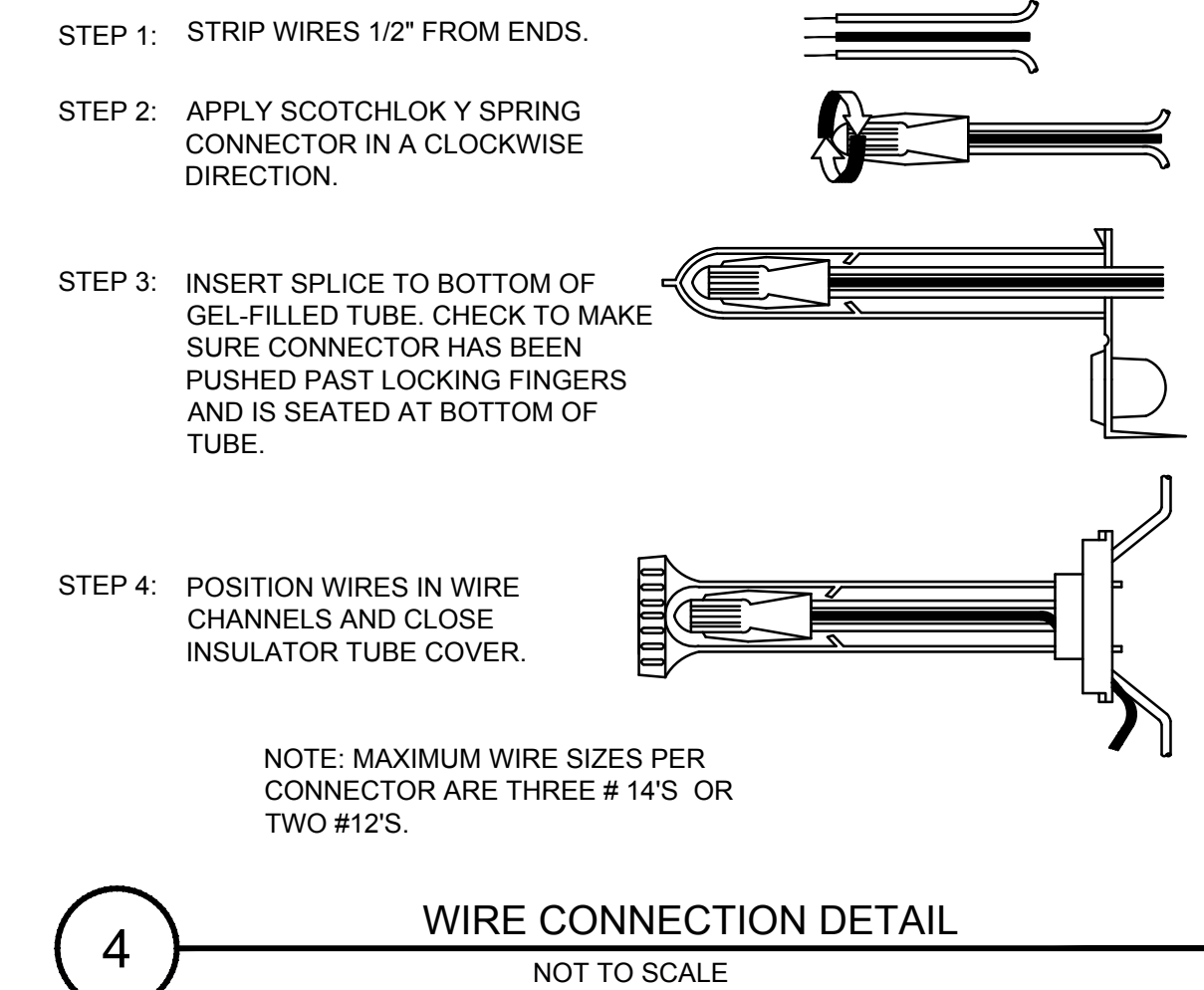
1 OUTSIDE WALL MOUNT CONTROLLER DETAIL
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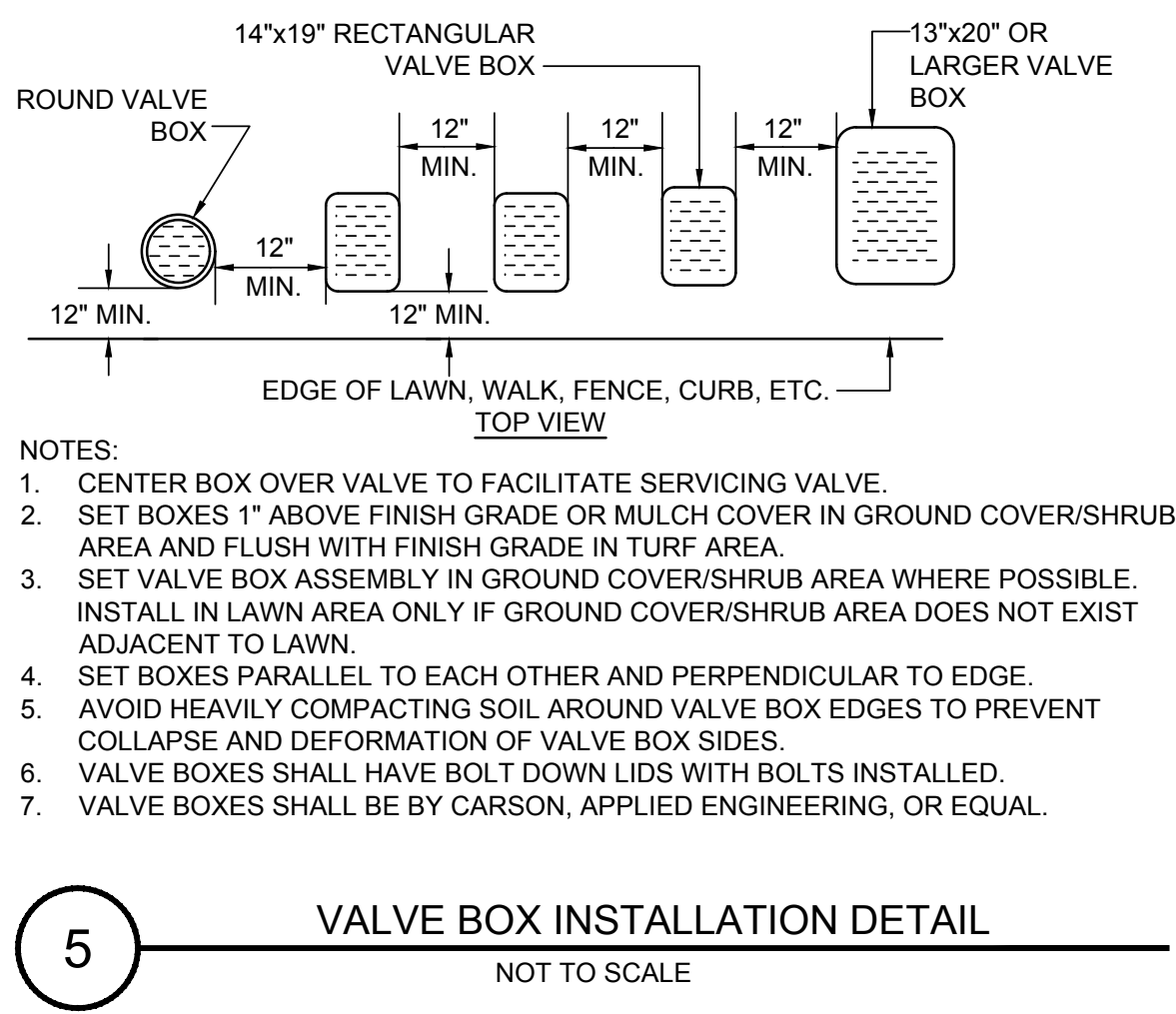
2 HUNTER SOLAR SYNC WEATHER SENSOR
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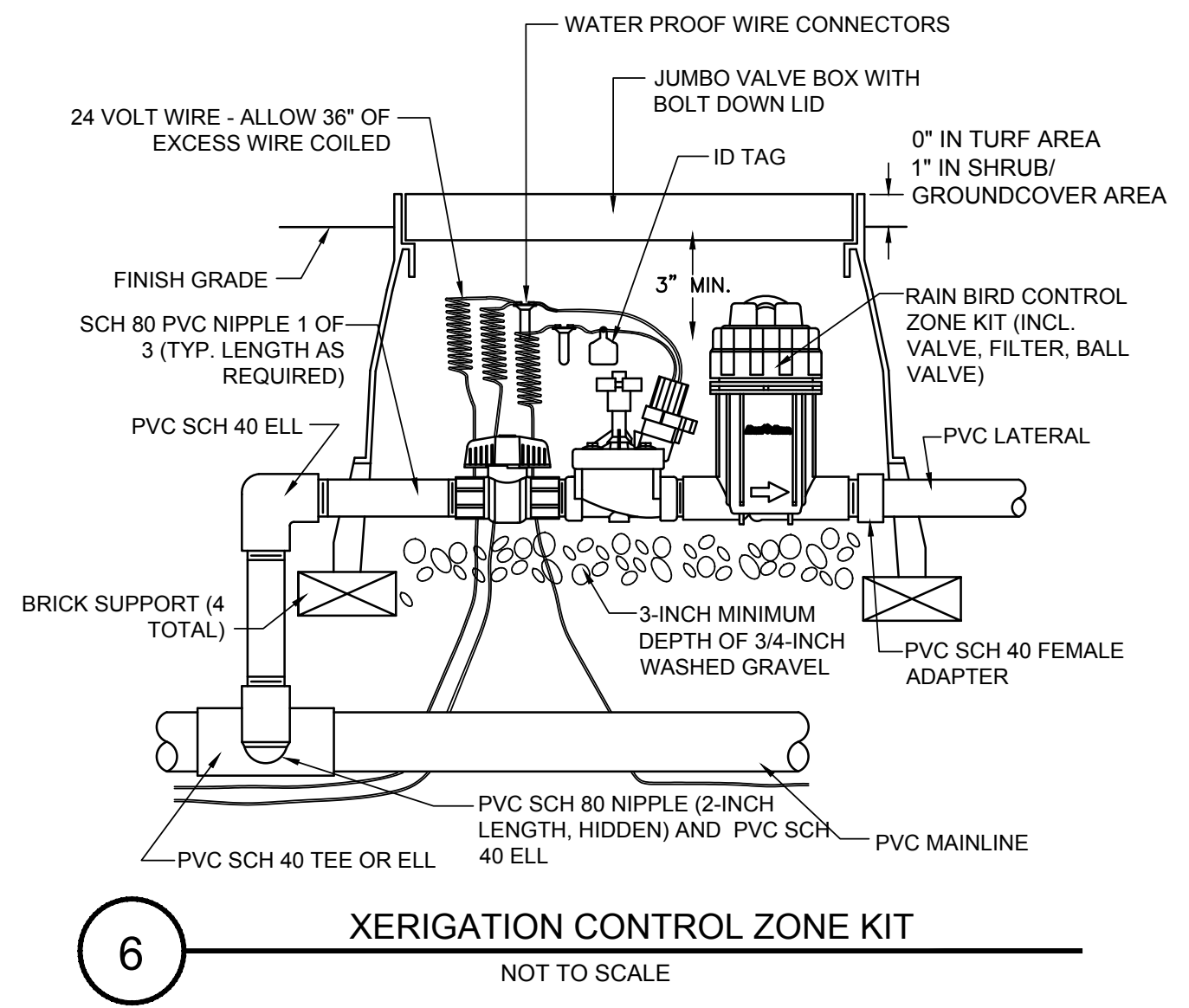
3 PIPE AND WIRE TRENCHING
NOT TO SCALE



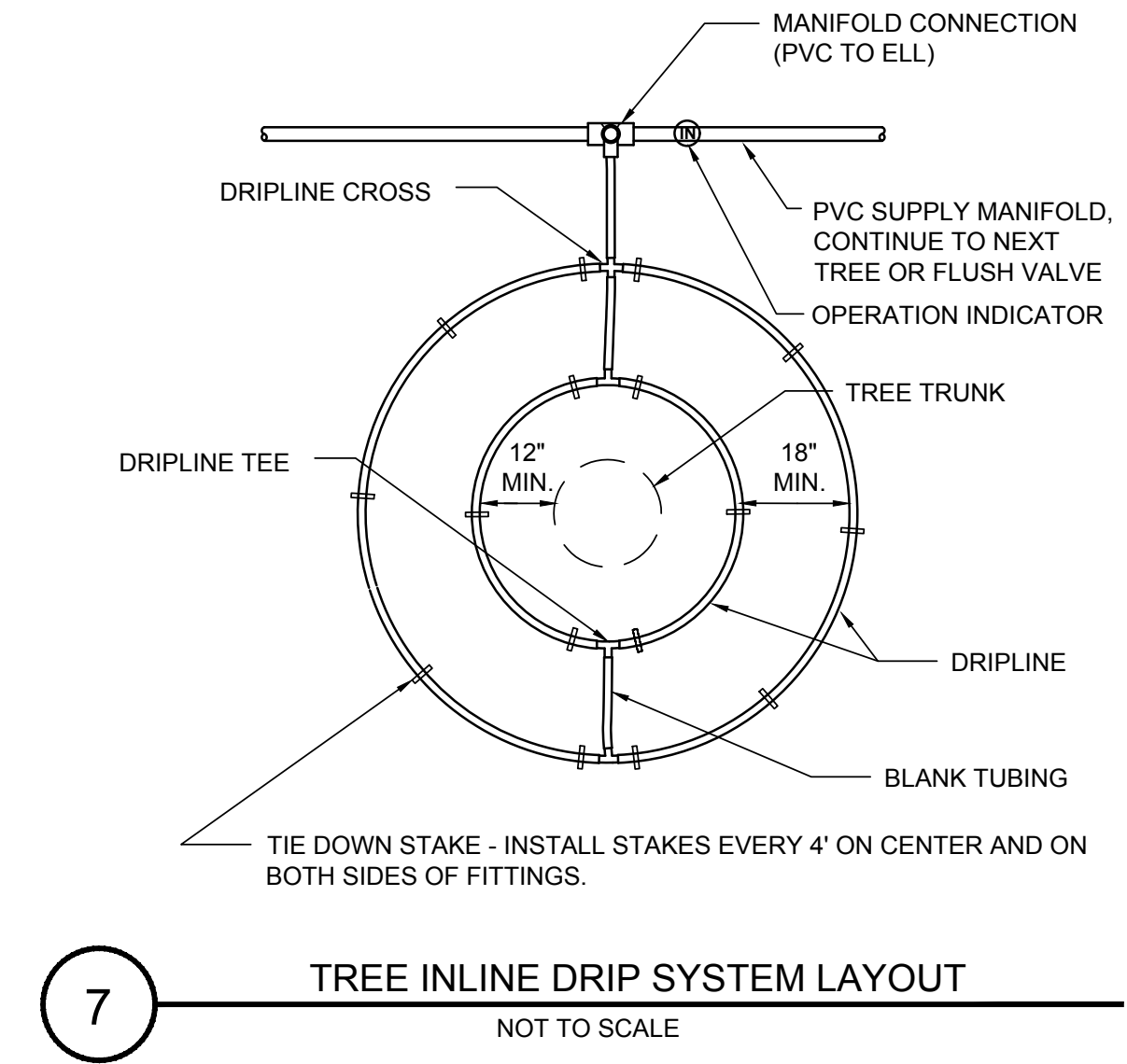
4 WIRE CONNECTION DETAIL
NOT TO SCALE



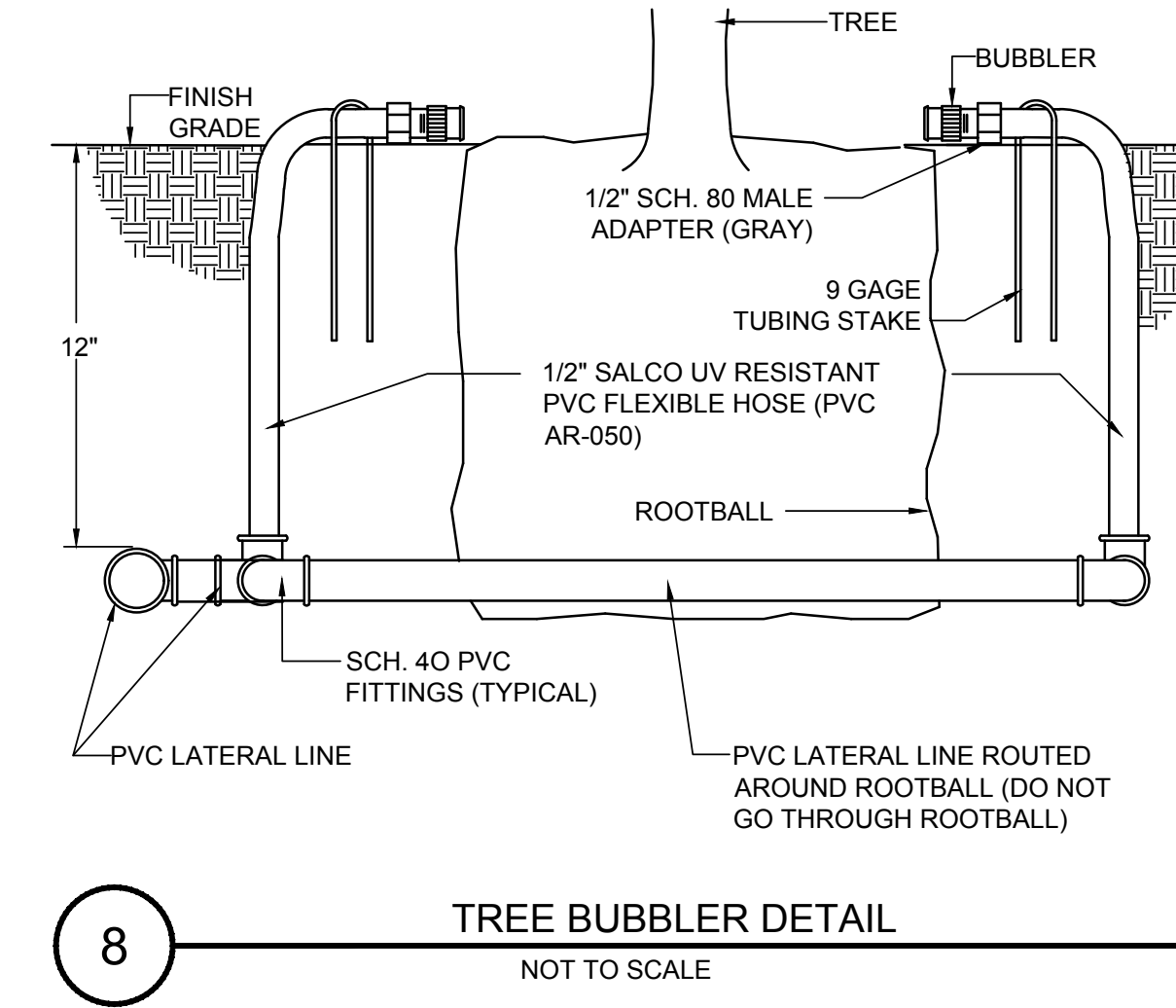
5 VALVE BOX INSTALLATION DETAIL
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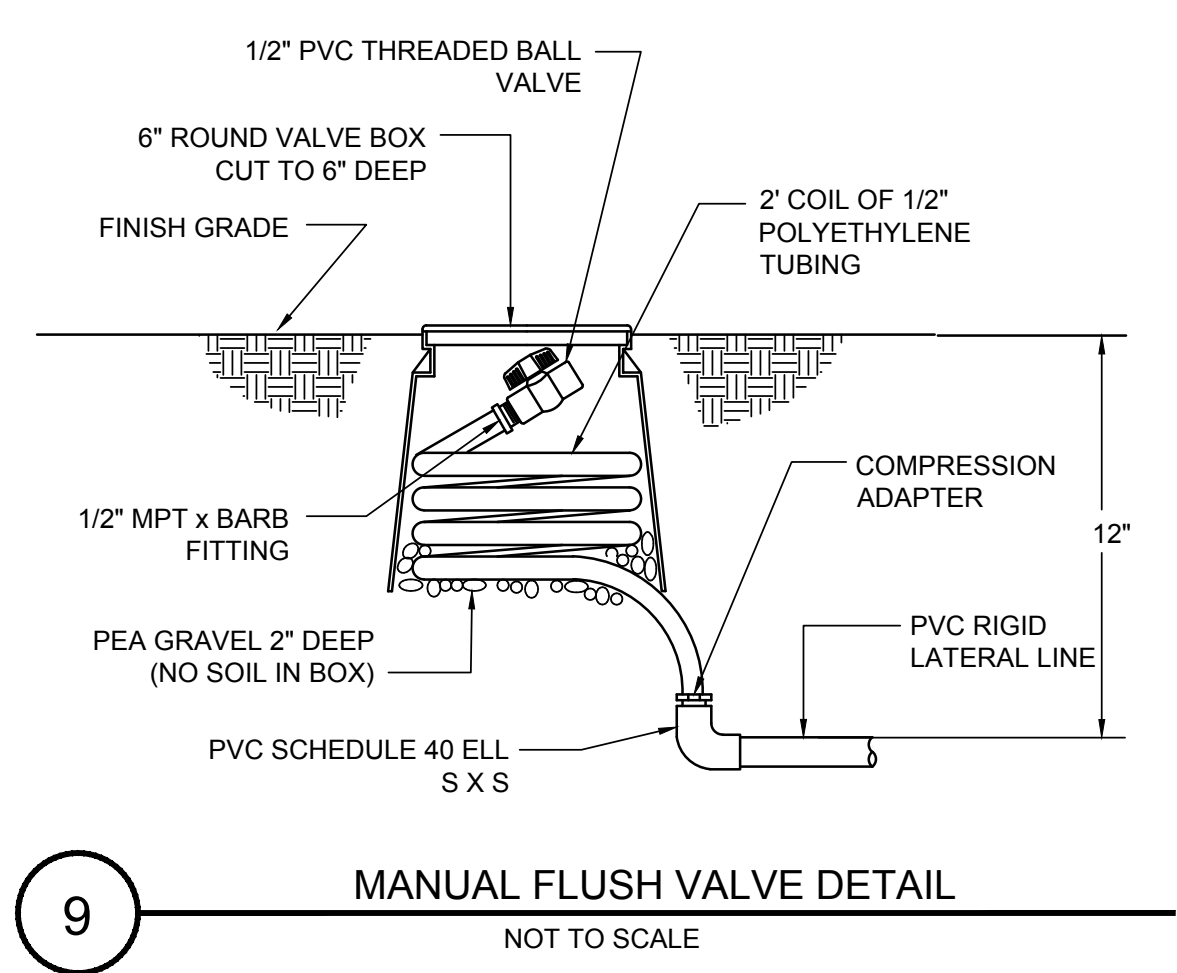
6 XERIGATION CONTROL ZONE KIT
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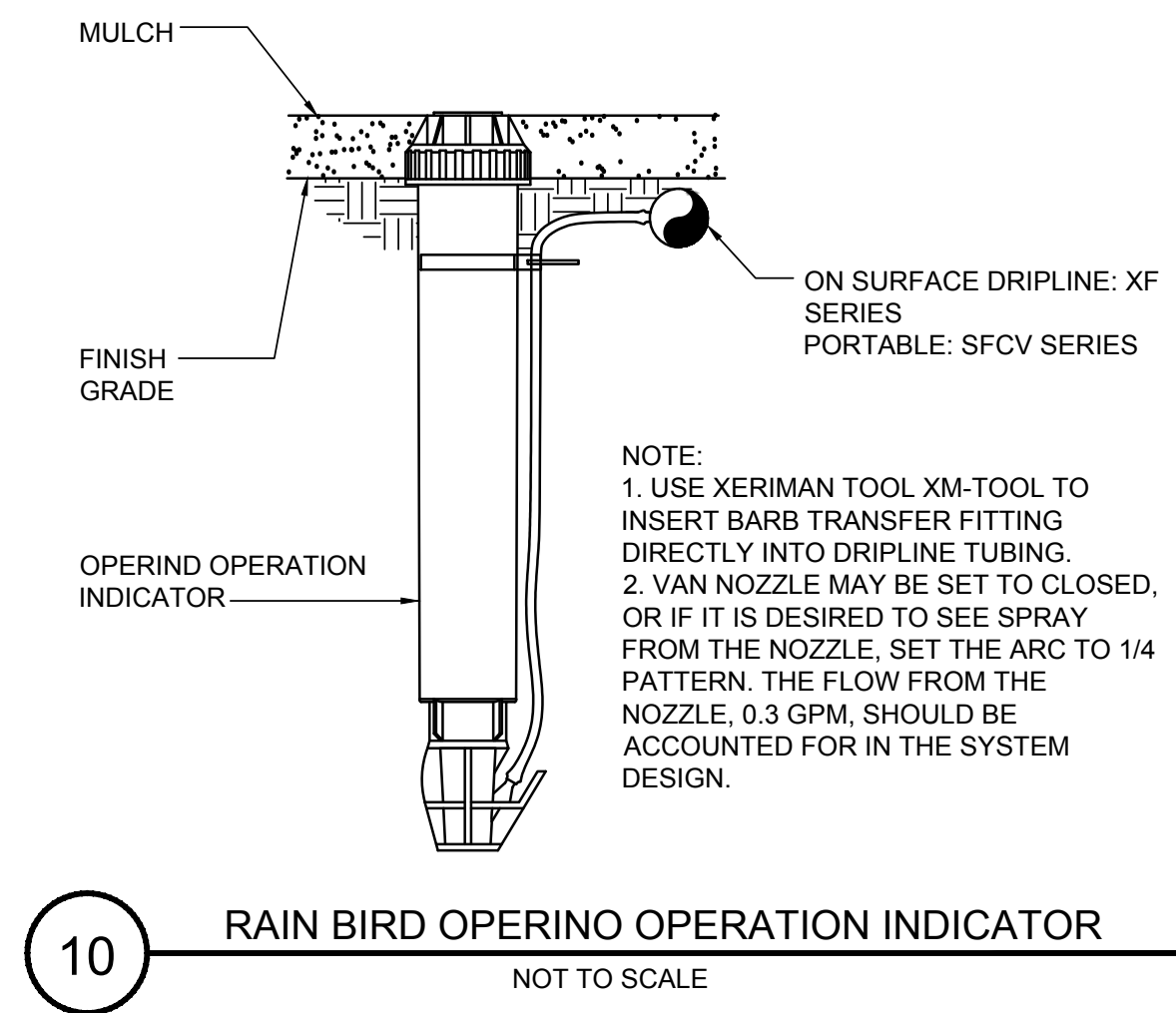
7 TREE INLINE DRIP SYSTEM LAYOUT
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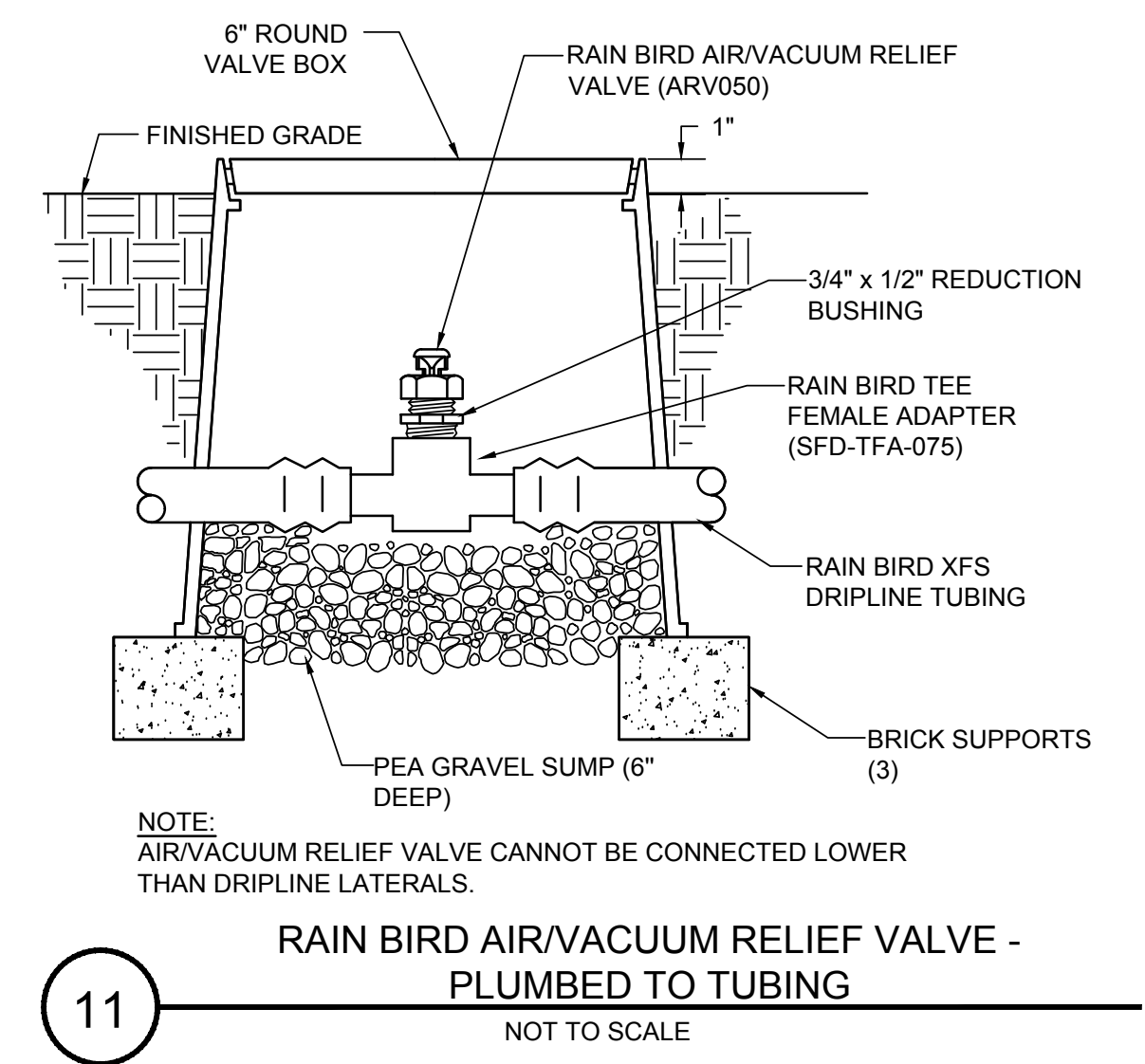
8 TREE BUBBLER DETAIL
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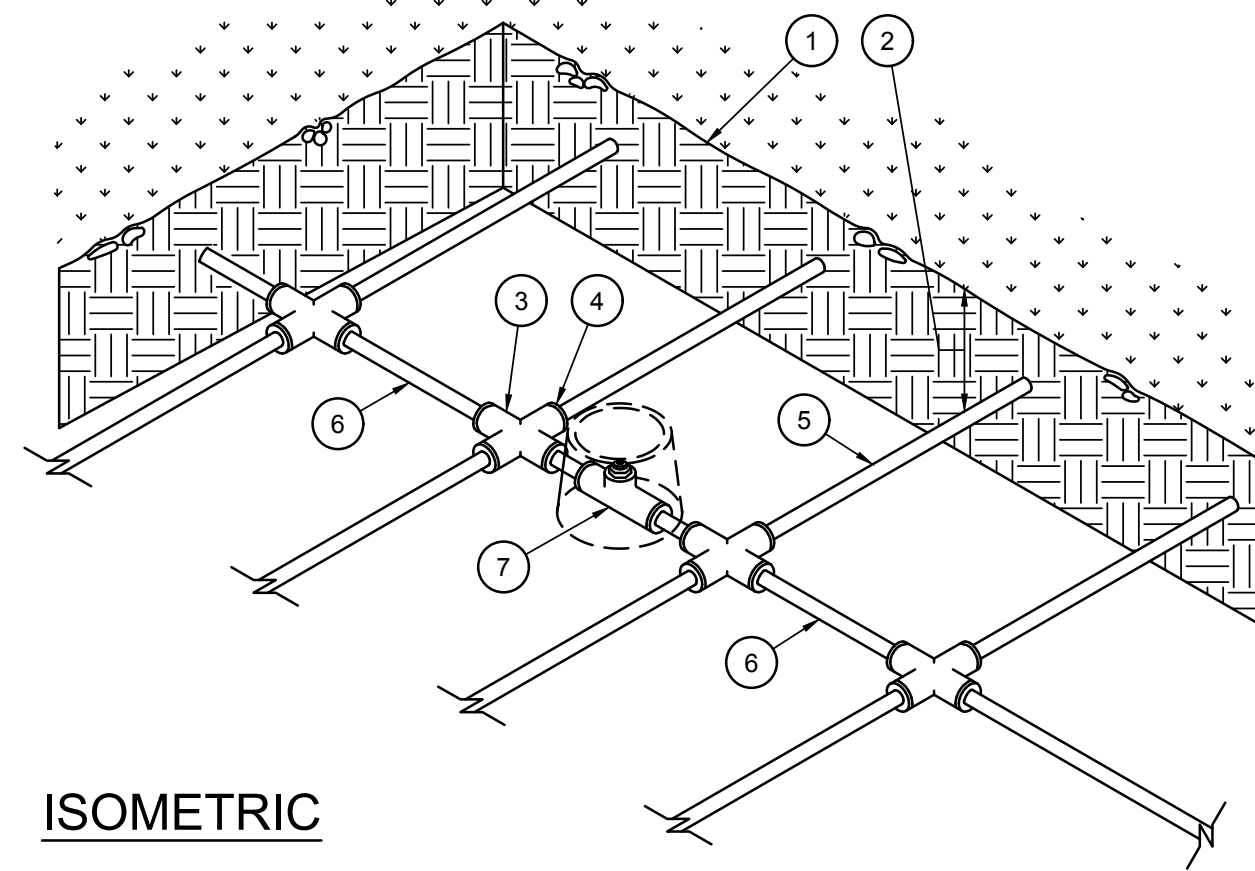
9 MANUAL FLUSH VALVE DETAIL
NOT TO SCALE



10 RAIN BIRD OPERINO OPERATION INDICATOR
NOT TO SCALE



11 RAIN BIRD AIR/VACUUM RELIEF VALVE - PLUMBED TO TUBING
NOT TO SCALE

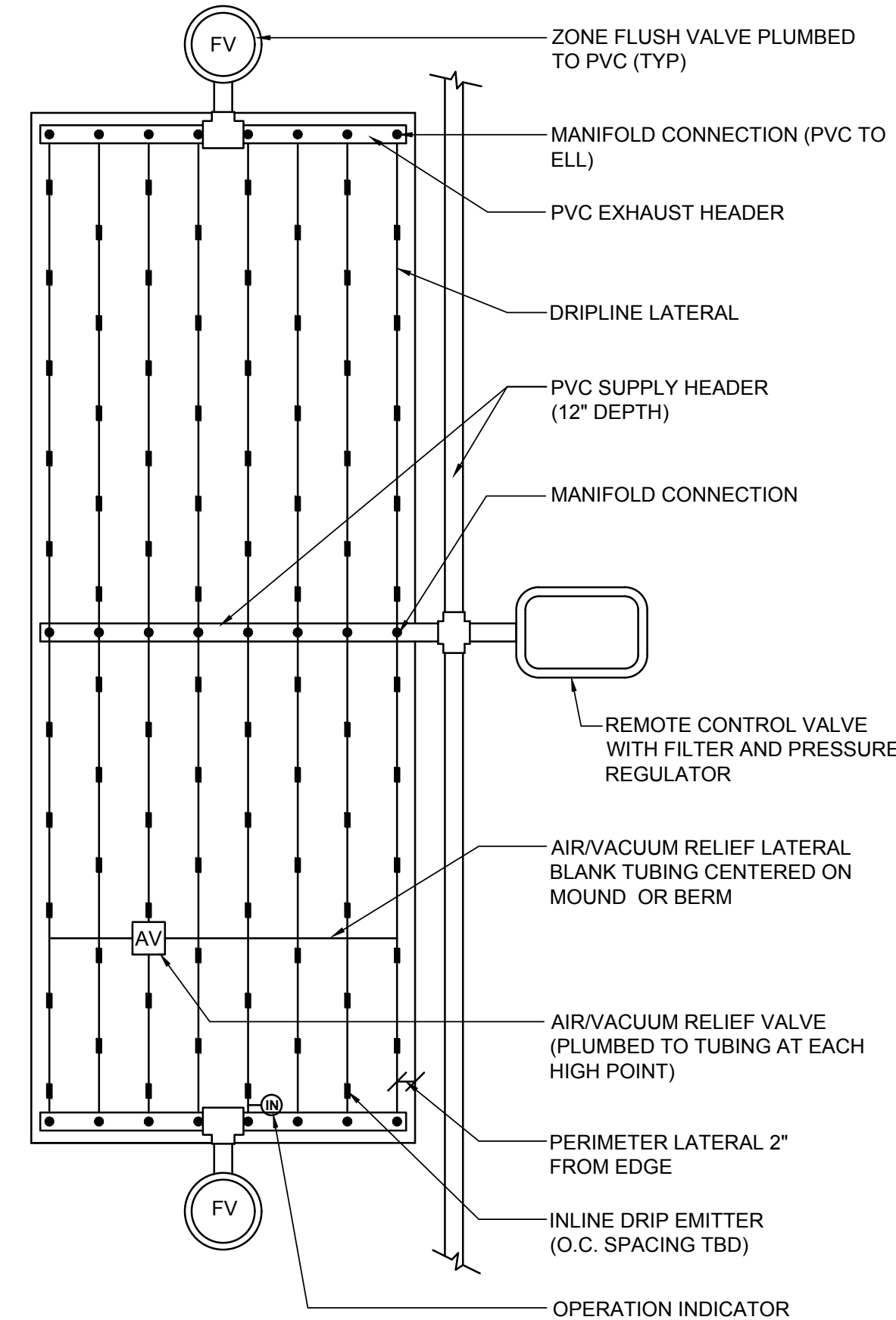


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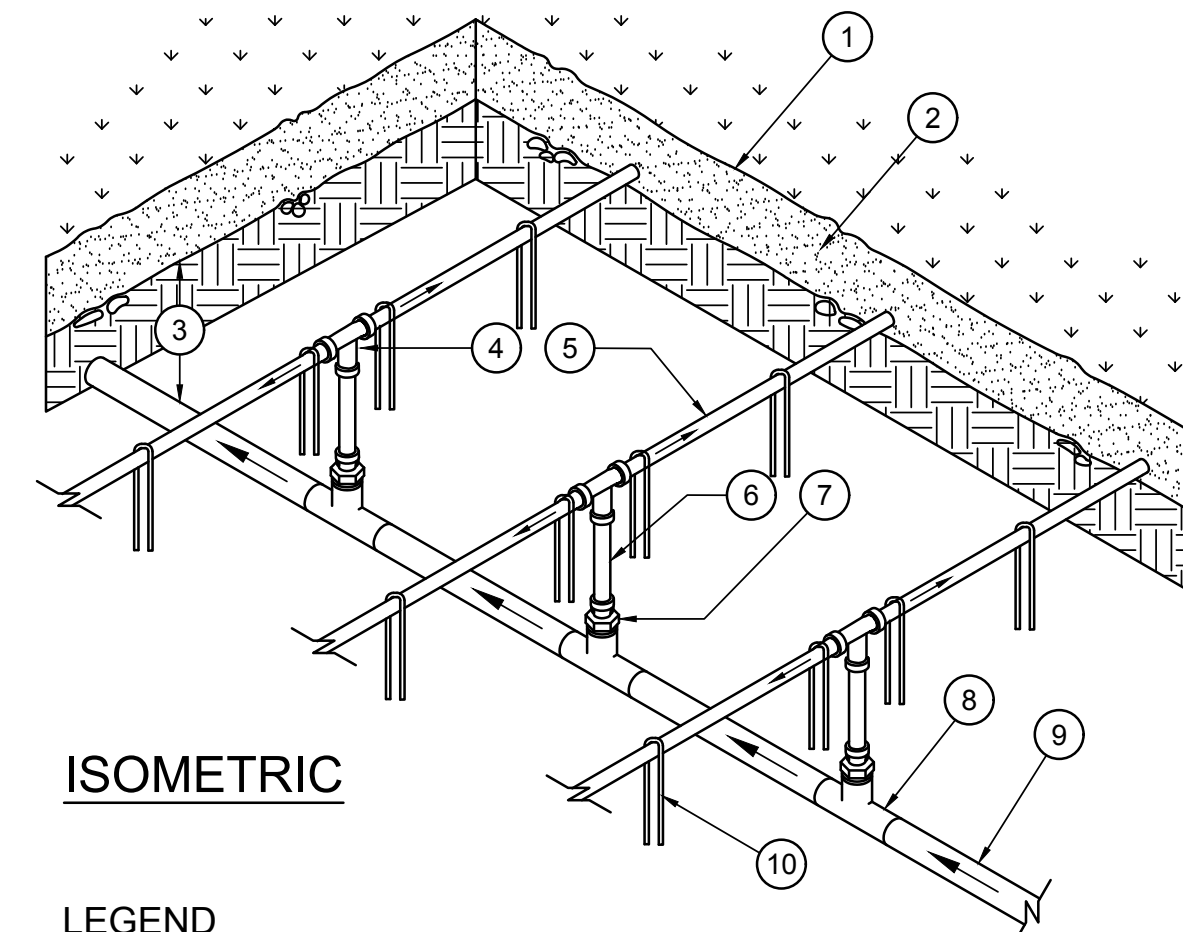
LEGEND

- | | |
|---------------------------------------|--|
| 1. FINISH GRADE. | 5. DRIPLINE LATERAL. |
| 2. DEPTH OF TUBING PER SPECIFICATIONS | 6. AIR/VACUUM RELIEF LATERAL, BLANK POLY TUBING CENTERED ON MOUND OR BERM |
| 3. PVC CROSS (SxSxSxS) | 7. AIR/VACUUM RELIEF VALVE AT HIGH POINT. REFER TO AIR/VACUUM RELIEF VALVE DETAIL. |
| 4. COMPRESSION ADAPTER. | |

13 AIR/VACUUM RELIEF LATERAL
NOT TO SCALE



14 CENTER FEED INLINE DRIP LAYOUT
NOT TO SCALE



ISOMETRIC

LEGEND

- | | |
|---|--|
| 1. FINISH GRADE. | 7. DRIPLINE MPT ADAPTER. |
| 2. MULCH - INSTALL TUBING ON GRADE, UNDER MULCH | 8. PVC TEE (SxSxT) WITH 1/2\"/> |
| 3. DEPTH OF PVC SUPPLY MANIFOLD PER SPECIFICATIONS. | 9. PVC SUPPLY MANIFOLD FROM REMOTE CONTROL VALVE ASSEMBLY. |
| 4. DRIPLINE TEE-FITTING. | 10. WIRE STAKE - EVERY 24\", USE ONLY ROUNDED STAKES |
| 5. DRIPLINE LATERAL. | |
| 6. BLANK POLY TUBING, LENGTH AS NECESSARY. | |

15 CENTER FEED MANIFOLD - ON-GRADE
NOT TO SCALE

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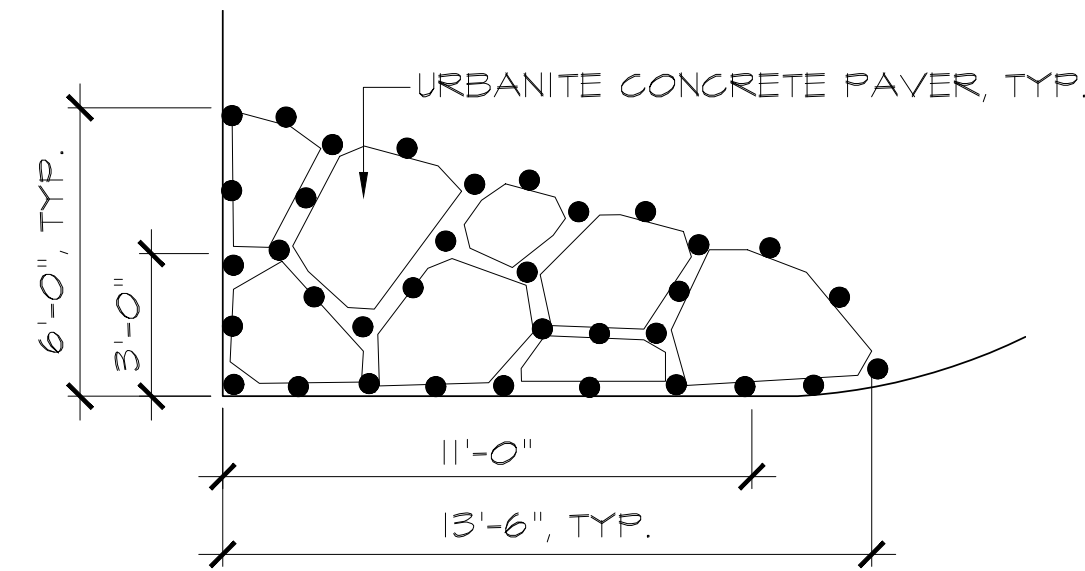
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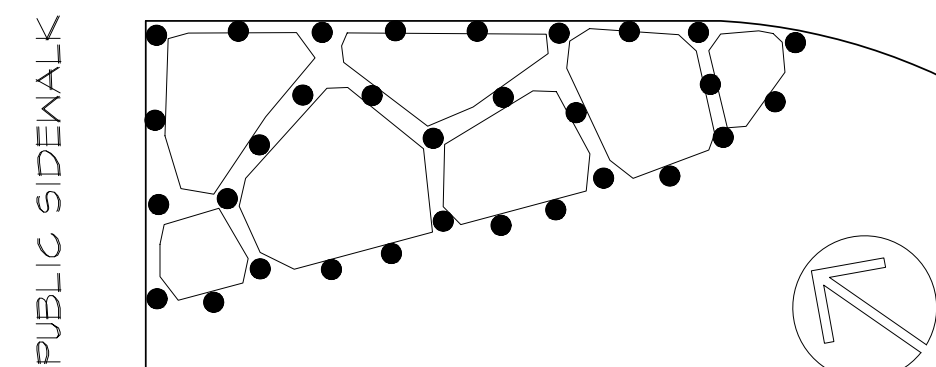
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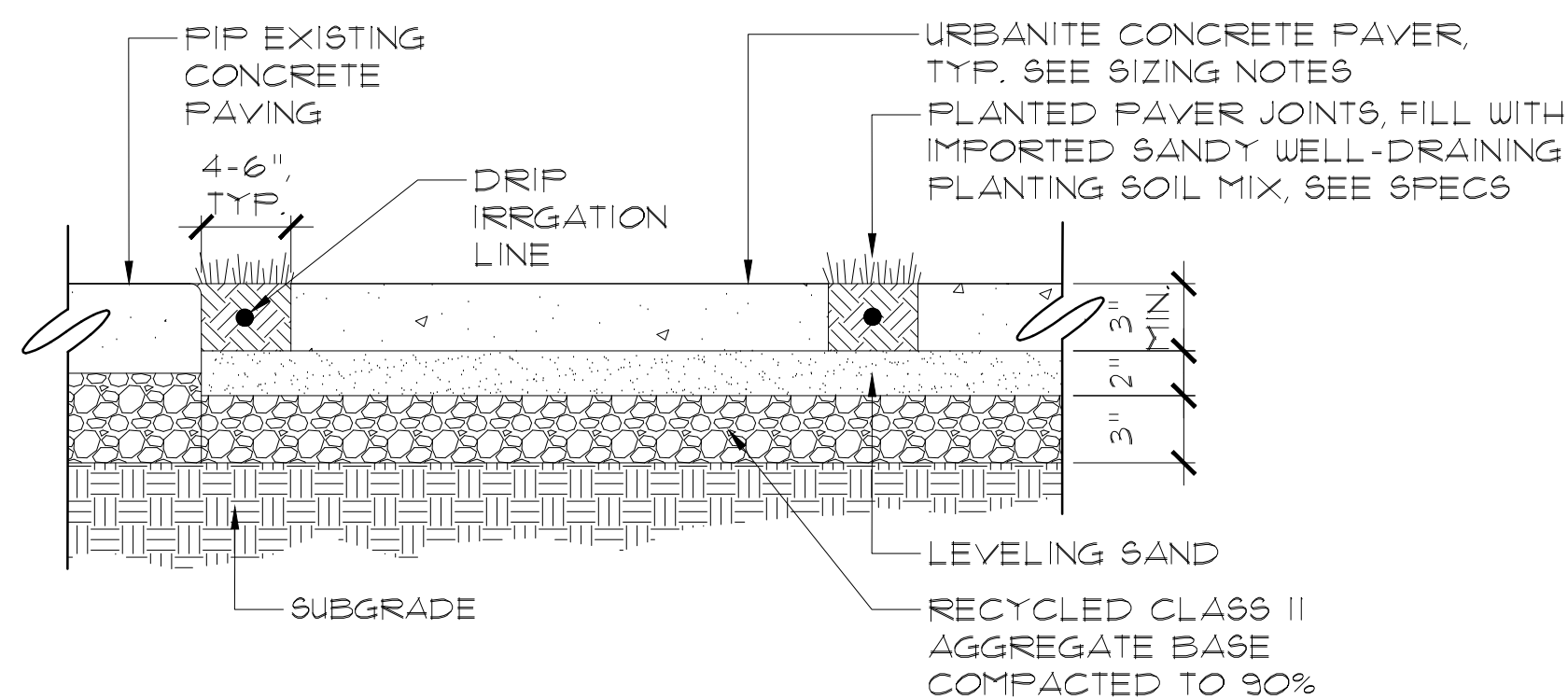
ID-2
SHEET 9 OF 10 SHEETS



LEGEND
 ● DYMONDIA 4" POT, TYP.
 NOTE: NO DYMONDIA AT FLAGPOLE URBANITE



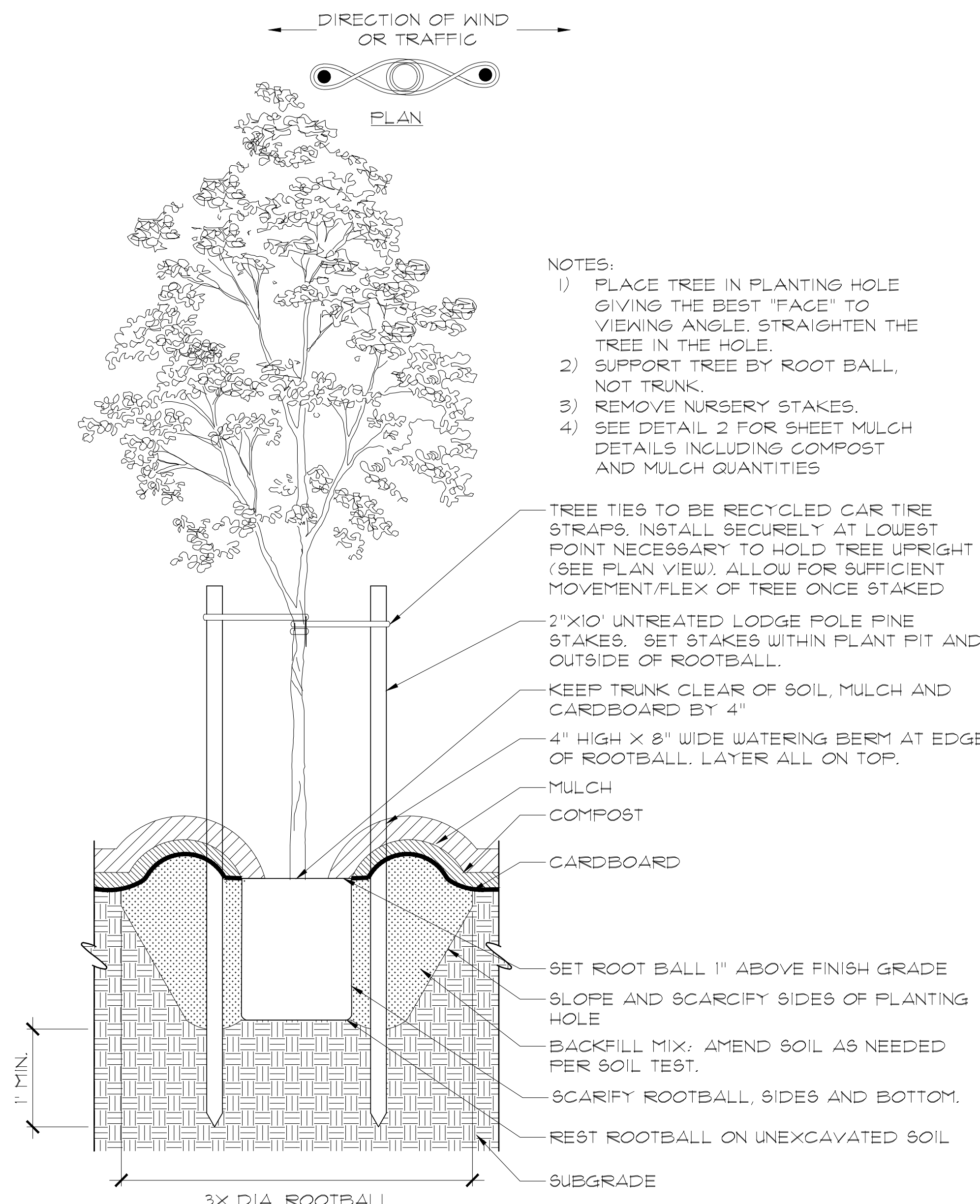
PLAN: CITY HALL ENTRY
 SCALE: 1/4" = 1'-0"



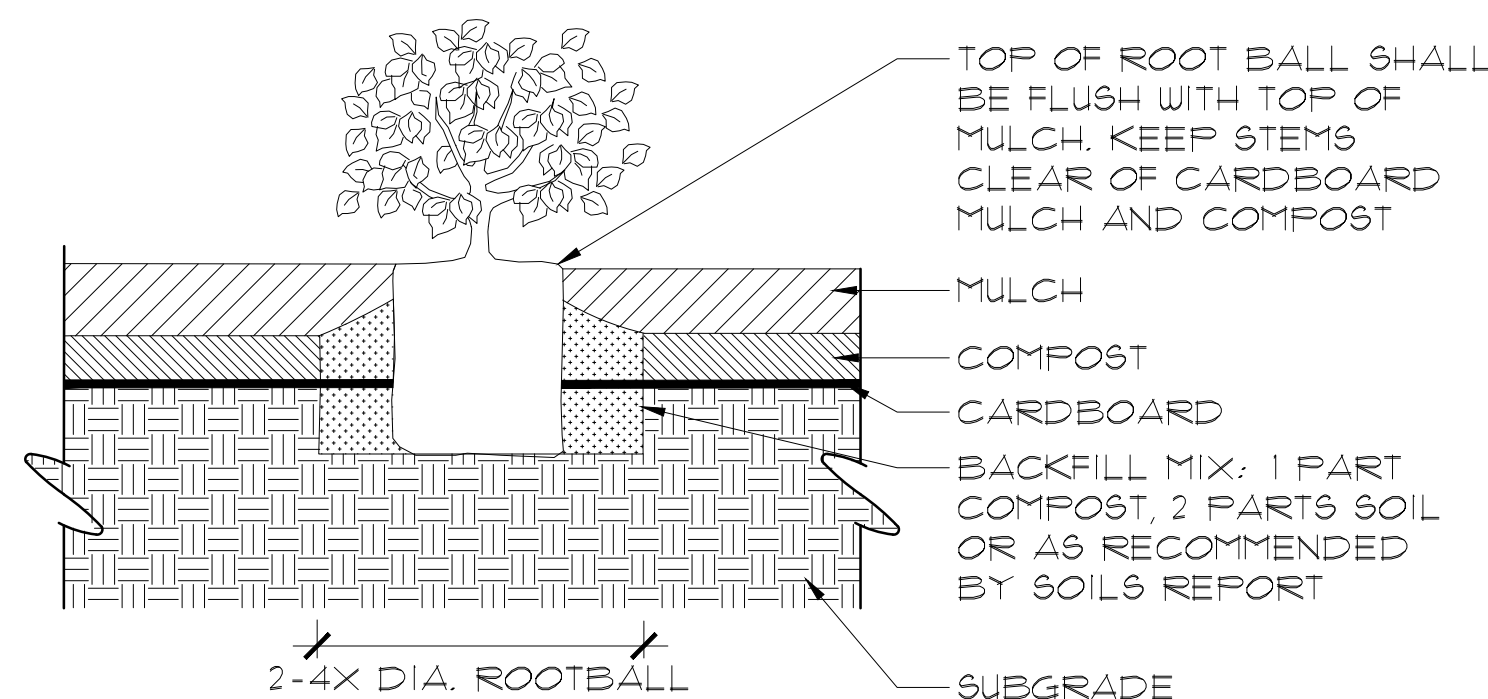
PAVER NOTES:
 TYPE: URBANITE (SIDEWALK CONCRETE BROKEN INTO REUSABLE PAVER SIZES)
 COLOR: NATURAL CONCRETE
 SOURCE: CONTRACTOR MUST SOURCE URBANITE WITHIN 200 MILES OF THE PROJECT SITE.
 FINISH: ALL PAVERS MUST HAVE SIMILAR SMOOTH SAND BLAST WALKING SURFACE
 EDGES: GRIND OFF IRREGULAR OR SHARP EDGES
 1. SEE PLAN FOR APPROXIMATE PAVER SHAPES AND LAYOUT.
 2. LAYOUT TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

5 URBANITE PAVING
 SCALE: 1 1/2" = 1'-0"

Final Landscape Plan



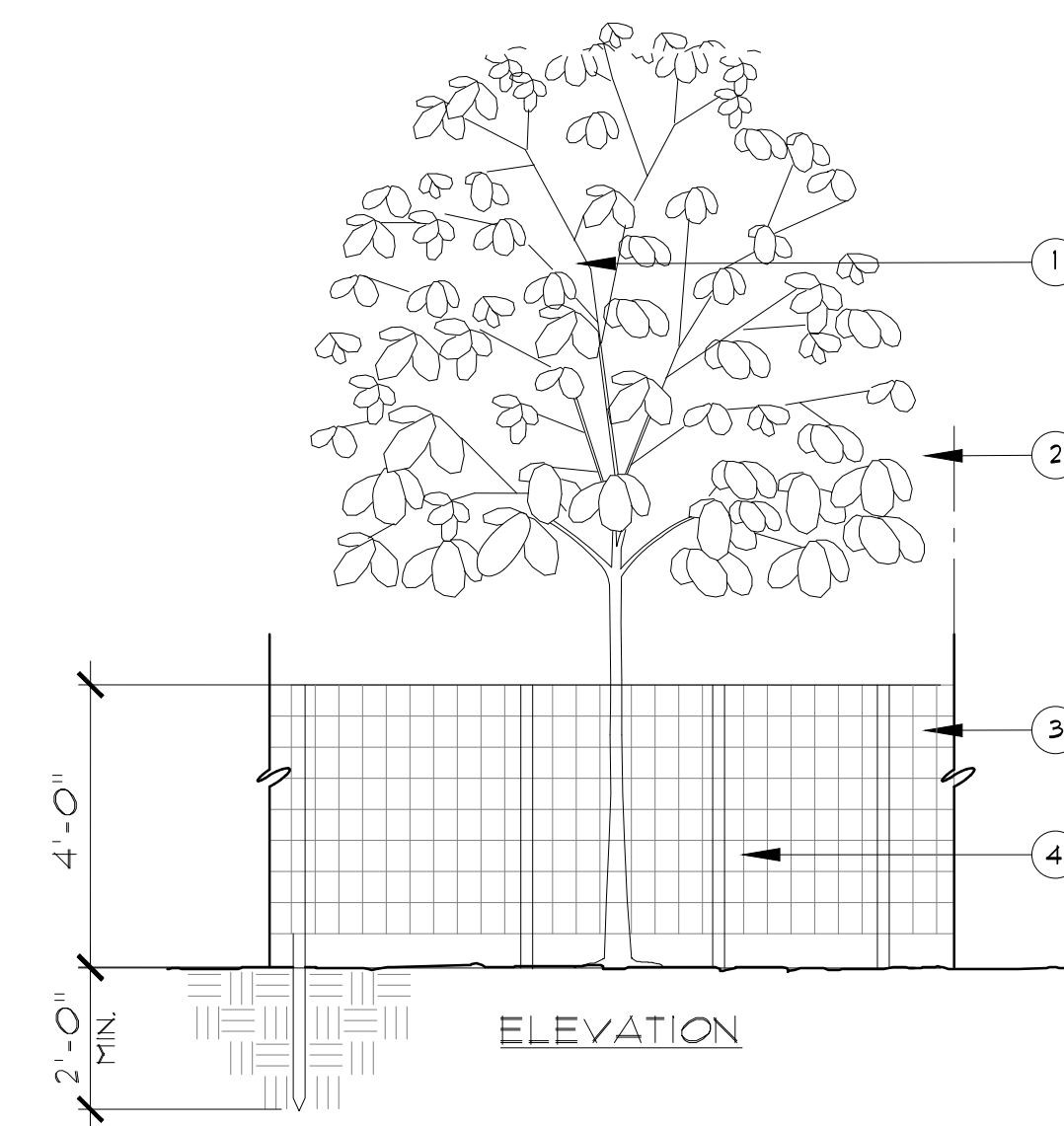
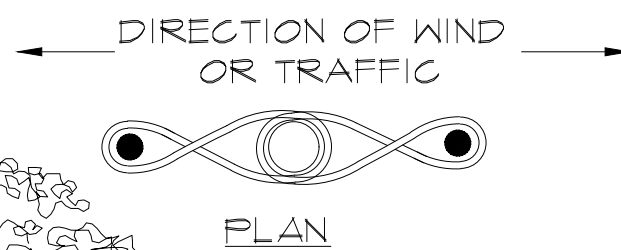
3 TREE PLANTING AND STAKING
 SCALE: 1" = 1'-0"



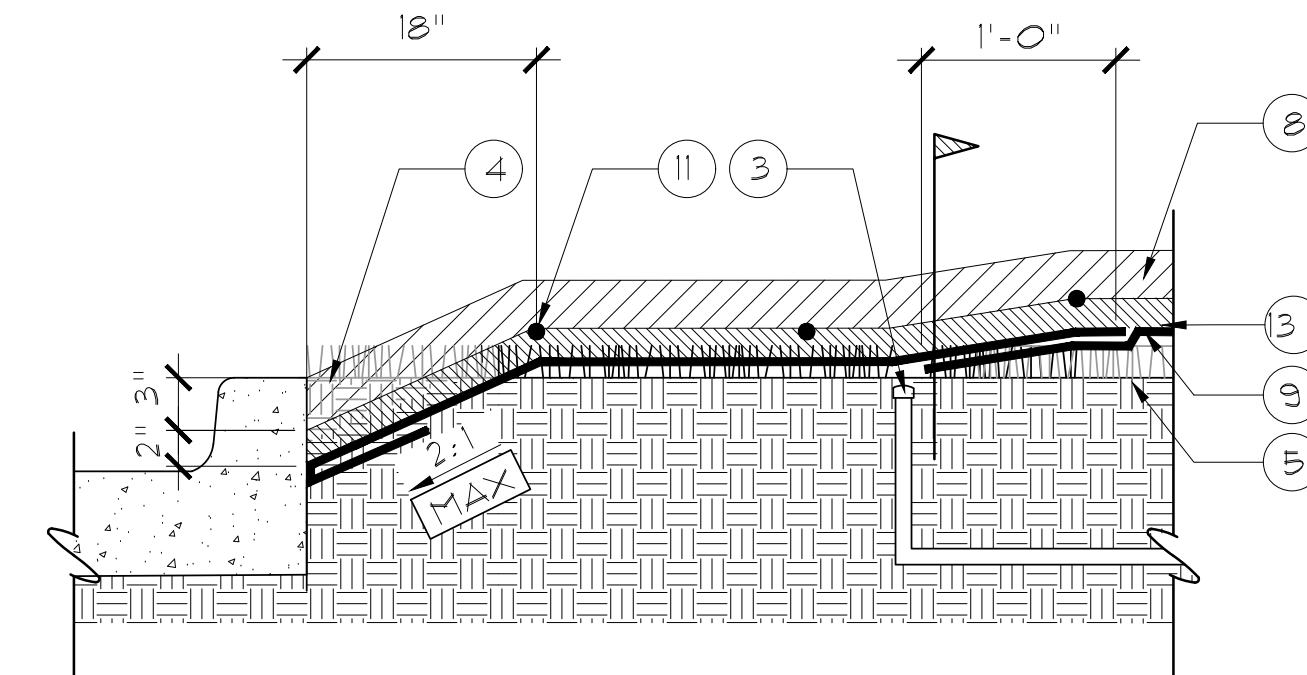
NOTE:
 1. SEE DETAIL 2 FOR SHEET MULCH DETAILS INCLUDING COMPOST AND MULCH QUANTITIES.
 2. ONE GALLON: INSTALL PLANTS AFTER SHEET MULCH CARDBOARD IS INSTALLED. CUT HOLES IN CARDBOARD TO PLANT.
 3. FIVE GALLON: INSTALL PLANTS BEFORE SHEET MULCH CARDBOARD IS INSTALLED.
 4. SEE SPECS FOR MORE INFORMATION

4 SHRUB PLANTING, 1 GAL AND 5 GAL POTS
 SCALE: 1 1/2" = 1'-0"

NOTES:
 1) PLACE TREE IN PLANTING HOLE GIVING THE BEST "FACE" TO VIEWING ANGLE. STRAIGHTEN THE TREE IN THE HOLE.
 2) SUPPORT TREE BY ROOT BALL, NOT TRUNK.
 3) REMOVE NURSERY STAKES.
 4) SEE DETAIL 2 FOR SHEET MULCH DETAILS INCLUDING COMPOST AND MULCH QUANTITIES



1 TREE PROTECTION
 SCALE: 3/8" = 1'-0"



INSTRUCTIONS FOR SHEET MULCH LAWN IN PLACE:

- 1 STOP IRRIGATION OF LAWN PRIOR TO SHEET MULCHING.
- 2 TEST SOIL AND OBTAIN RECOMMENDATIONS FOR COMPOST AND ORGANIC FERTILIZERS TO BRING ORGANIC MATTER TO 6%. SEE SPECS FOR MORE INFORMATION.
- 3 CAP IRRIGATION HEADS.
- 4 REMOVE 18" OF LAWN ADJACENT TO CURBS OR HARDSCAPE BY HAND. GRADE SOIL TO A DEPTH OF 4"-6" BELOW HARDSCAPE, DRAIN, ETC. TO ALLOW FOR SHEET MULCH. TAPER BACK AT 2:1 OR SHALLOWER TO EXISTING GRADE OF TURF TO REMAIN.
- 5 FLIP REMOVED LAWN, ROOTS SIDE UP, TOWARD THE CENTER OF LAWN.
- 6 PLANT TREES, SEE DETAIL 3.
- 7 PLANT 5 GALLON AND LARGER PLANT MATERIAL, SEE DETAIL 4.
- 8 APPLY TWO (2) LAYERS OF RECYCLED FLUTE B CARDBOARD:
 - a. WET CARDBOARD WHILE APPLYING TO PREVENT IT FROM BLOWING AWAY
 - b. OVERLAP CARDBOARD A MINIMUM OF 12 INCHES
 - c. APPLY THE TWO LAYERS OF CARDBOARD PERPENDICULAR TO ONE ANOTHER TO ENHANCE WEED PROTECTION
 - d. CARDBOARD SHALL ABUT DIRECTLY AGAINST EDGE OF PAVEMENT, CURBS, BOULDERS OR OTHER SITE FEATURES. FOLD EXCESS CARDBOARD UNDER ITSELF TO AVOID CUTTING
 - f. AVOID WALKING ON WET CARDBOARD. TEARS IN CARDBOARD WILL NOT BE ACCEPTED
 - g. RECYCLE ALL CARDBOARD SCRAPS
- 9 APPLY ORGANIC FERTILIZERS AND 6 CY/1000 SF QUALITY ORGANIC COMPOST ON TOP OF CARDBOARD PER SOIL TEST. SEE SPECS FOR COMPOST.
- 10 PLANT 1 GALLON SHRUBS, SEE DETAIL 4.
- 11 LAY OUT DRIP LINES ON TOP OF COMPOST LAYER.
- 12 OBTAIN IRRIGATION AUDIT PER SPECS
- 13 APPLY 3" LOCAL RECYCLED MULCH, SEE SPECS FOR MULCH

2 SHEET MULCH LAWN IN PLACE
 SCALE: 1" = 1'-0"

NOTES:
 1. EXISTING TREE TO REMAIN
 2. PROTECTIVE FENCING TO BE PLACED PER FIELD REVIEW AND EXTEND BEYOND DRIP LINE OF PROTECTED TREE AS FEASIBLE.
 3. STEEL STAKE, 6'-0" O.C. MAX.
 4. SNOW FENCING



PROJECT TITLE:
**Emeryville City Hall
 Demonstration Garden**
 City of Emeryville
 Alameda County
 Emeryville
 California

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DRAWING TITLE:
Details

SCALE:
 DATE: 04/12/19

REVISIONS:
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DRAWING NO:
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 SHEET 10 OF 10 SHEETS