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Description:	Response to Data Request for Enterprise Emergency Peaker Project, Docketed Date 3/12/2026
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Enterprise Emergency Peaker (01-EP-10C) Enterprise BESS Project

CEC Biological Resources Data Request Response No. 3

prepared for

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May 2026

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1 Introduction

On March 12, 2026, Enterprise BESS LLC (Applicant) received a third Data Request (Data Request No.3) from the California Energy Commission (CEC) for the Enterprise Emergency Peaker Project (01-EP-10C) in response to the Applicant's petition to amend (TN 255290, March 18, 2025) for the Enterprise Battery Energy Storage System (BESS) Project. The following document provides the Applicant's responses to the Data Request received from the CEC.

The responses are grouped by individual discipline or topic area and are presented in the same order and with the same numbering provided by the CEC. The responses included in this document are considered complete responses to the corresponding Data Requests.

2 Biological Resources

2.1 Data Request-1 through -14

Data Request-1 through -4

As stated in the application, the vegetation type classified as disturbed Diegan coastal sage scrub does not occur within the Project Area, but 0.12 acre is located within the Survey Buffer. Less than 1 acre (0.97 acre) of Diegan coastal sage scrub also occurs off-site. These vegetation types may support the coastal California gnatcatcher (*Polioptila californica californica*).

The application (TN 262238, page 7) states that United States Fish and Wildlife Service (USFWS) protocol breeding surveys for coastal California gnatcatcher were conducted in suitable habitat from April 19, 2023, through May 24, 2023, and survey findings were negative. A formal survey report was submitted to USFWS on July 7, 2023. Additionally, USFWS protocol non-breeding coastal California gnatcatcher surveys were conducted between October 17, 2023, and February 13, 2024. The survey results for all nine protocol non-breeding surveys were negative. The second and final coastal California gnatcatcher survey was submitted to USFWS in March 2024.

Staff estimates the proposed activities would occur as close as 240 feet north of disturbed Diegan coastal sage scrub and approximately 50 feet east of Diegan coastal sage scrub, based on Figure 5 (TN 262238). Both habitats may be suitable for coastal California gnatcatcher, which could be adversely affected by project activities.

- **DR-1:** Please describe the potential for off-site noise, vibration, or other construction impacts to disrupt coastal California gnatcatcher behavior, particularly during sensitive periods, such as nesting or foraging.

Response: As stated in the Project's Biological Resources Technical Report (BRTR) (Rincon 2024), the proposed Project Area does not contain suitable habitat for the coastal California gnatcatcher and previous protocol surveys (2023–2024) confirmed the species' absence within the adjacent habitat. Impact-2 in BRTR identifies indirect impacts to nesting birds that could occur within or adjacent to the project site. During Project activities that involve noise, vibration, or other potential impacts from construction, this species may experience temporary disturbance should the species occur within the adjacent habitat prior to construction.

A Noise and Vibration Study was prepared for the proposed Project and evaluates construction related noise and vibration impacts. Noise impacts were assessed from the approximate center of the Project Area. The greatest vibratory and noise sources during construction in the vicinity of the BESS site would be pile driving along the eastern, southern, and western Project Area boundaries during construction of the retaining wall. Per Table 8, Estimated Construction Noise Levels at Sensitive Receptors by Phase, two areas were identified as exceeding the typical noise ranges for nesting birds. Those areas include Adjacent Industrial Use to the East and Nearest Industrial Use to the North, neither of which is adjacent to potential suitable coastal California gnatcatcher habitat.

Since the proposed Project Area exists within an area that is mostly developed with industrial and commercial uses, substations, and active roadways, and the greatest noise and vibration impacts occur away from potential suitable coastal California gnatcatcher habitat, construction-related noise and vibration impacts on this species are not expected.

Regardless, the 2021 Enterprise Emergency Peaker Project (01-EP-10C) Conditions of Certification (CoC) BIO-8 requires a focused nesting bird and raptor survey during the breeding season (March 15–August 15), CoC BIO-5 allows the Project biologist to enter the site at any time and to temporarily halt construction if needed to protect resources. A Worker Environmental Awareness Program (WEAP) is recommended to be implemented for the Project as described in Recommended Measure BIO-12,

and part of the WEAP would be the discussion of nesting birds and defining a “no-work” buffer for all nesting birds, including coastal California gnatcatcher, that would be established for any active nests that are within or near the Project. With the implementation of these CoC, impacts to coastal California gnatcatcher are not expected.

- **DR-2:** Please describe the planned approach for implementing BIO-7, which requires performance of protocol surveys for coastal California gnatcatcher. Staff notes that survey results are considered valid for a period of one year from the date the survey was completed (USFWS 2019). Specifically, describe how surveys would be coordinated with site mobilization activities.

Response: Due to previous changes in the Enterprise BESS Project’s footprint, the proposed Project is no longer within suitable coastal California gnatcatcher habitat and non-native grassland, and the Project will no longer impact Diegan coastal sage scrub, previously included as part of the Enterprise Emergency Peaker Plant’s CoC BIO-7. Although breeding and non-breeding protocol surveys conducted in 2023–2024 are no longer valid, suitable habitat for this species is absent from the proposed Project Area, and therefore, CoC BIO-7 no longer applies. However, CoC BIO-8 requires a focused nesting bird and raptor survey during the breeding season (March 15–August 15) within and adjacent to the proposed Project.

- **DR-3:** Please describe if surveys on the planned construction laydown area would also be necessary and describe/map any potential on- or off-site coastal California gnatcatcher habitat. The Project owner’s proposed measure, BIO-7, mentions surveys would be performed on the construction laydown area (refer also to Data Requests 7 and 8).

Response: Suitable coastal California gnatcatcher habitat is not present within the proposed Project Area. No further protocol surveys are planned for this Project as previous surveys concluded the absence of this species from the site, and the Project and construction laydown area is no longer proposed within suitable habitat; therefore, CoC BIO-7 is no longer applicable. Off-site laydown areas will be confined to an existing warehouse approximately 1 mile from the proposed Project Area. No suitable coastal California gnatcatcher habitat is present on or around the off-site laydown area, which occurs within a developed industrial zone. However, CoC BIO-8 requires a focused nesting bird and raptor survey during the breeding season (March 15–August 15) within and adjacent to the proposed Project.

- **DR-4:** Please describe avoidance buffers or other protective measures to be implemented should nesting coastal California gnatcatchers be detected. Please identify the appropriate USFWS personnel who were contacted regarding coordination of this effort. Include the name, title, and contact information, as well as records of any communications (such as emails, meeting notes, phone call summaries, etc.).

Response: CoC BIO-8 requires a focused nesting bird and raptor survey during the breeding season (March 15–August 15) within and adjacent to the proposed Project. The BRTR includes recommended MM BIO-12, WEAP training, which will be provided to all construction personnel that will be working on the Project. As part of the WEAP training, a discussion of nesting birds and associated “no-work buffers” would be provided and implemented as needed by the Project biologist during construction activities. Should coastal California gnatcatcher nests be observed, the monitoring biologist will notify USFWS. To date, there has not been any communication with USFWS regarding the proposed Project outside the required notification and reporting for coastal California gnatcatcher protocol surveys in 2023. The contact information for the USFWS is provided below.

USFWS Contact:

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 2177 Salk Avenue, Suite 250
 Carlsbad, California 92008
 Stacey.Love@fws.gov

Data Request-5 and -6

Staff requests clarification on the definition and extent of the “Study Area” as referenced in the petition. As first mentioned (page A-12, TN 262237), “The Study Area for biological resources, including the area to the west of the Project site and its surroundings provides habitat for wildlife species that commonly occur in urbanized and disturbed habitats within San Diego County.” However, this definition is unclear when reviewing the coastal special-status avian species accounts. Specifically, does the Project owner anticipate this species has the potential to occur on the site? Or within the broader “Study Area?” The petition (TN 262238) alternately uses the term “survey area” and “Study Area.”

- **DR-5:** Please clarify the term “Study Area.” Define all areas included within this designation and provide a figure, as necessary, to show the boundary.

Response: The Study Area is defined as the approximately 1.98-acre proposed Project Area and a 300-foot survey buffer. The BRTR uses the terms Study Area and Survey Area interchangeably throughout the report. A map of the Study Area, as shown in the BRTR, is provided as Attachment A.

- **DR-6:** Please clarify the species accounts for coastal California gnatcatcher and Cooper’s hawk (*Accipiter cooperii*), including whether these species are expected to occur within the Project site, the broader Study Area, or both.

Response:

Cooper’s Hawk (Present, Project Area): A Cooper’s hawk was observed emerging from a Canary Island pine tree (*Pinus canariensis*) and perching along the southern fence of the proposed Project Area during the reconnaissance-level biological field surveys. This detection implies that this species is present on-site. Potential nesting trees exist within the ornamental habitat within the proposed Project Area and surrounding woodland. Furthermore, there is a suitable prey base of songbirds present for this species throughout the Study Area. As such, the Study Area contains marginal quality, but suitable habitat for Cooper’s hawk to forage and nest within the entire Study Area, including the proposed Project Area.

Coastal California Gnatcatcher (No Potential, Project Area; Low Potential, Study Area): Coastal California gnatcatcher has low potential to occur within the survey buffer and is not expected to occur within the Project Area. There are minimal to marginally suitable habitat, including Diegan coastal sage scrub and California brittlebush (*Encelia californica*) present outside the proposed Project Area, within the 300-foot survey buffer. No observations have been recorded incidentally or during protocol surveys (Rincon 2023, 2024). As such, this species has potential to forage and nest within the survey buffer but is not expected to occur in the proposed Project Area. However, negative survey protocol results for both the breeding and non-breeding season indicate that this species does not occur within the entire Study Area.

Data Request-7 and -8

The petition states a construction laydown area has not been identified for the project (page A-16, TN 262237).

- **DR-7:** Please clarify if a temporary laydown area would be necessary for the proposed activities.

Response: All equipment and necessary Project construction components will be stored at an off-site warehouse located within an industrial center. No areas outside the identified proposed Project Area will be utilized for project construction.

- **DR-8:** If a laydown area is necessary, please provide a full description, including the exact location and size. Include maps and baseline biological information. Include any associated access roads for the off-site laydown area.

Response: See response for DR-7.

Data Request-9 and -10

The petition notes that up to five mature Canary Island pine trees may need to be removed to install the gen-tie cable tray (page 8, TN 262237). Furthermore, page A-16 (TN 262237) states “It is expected that impacts associated with the potential removal of Canary Island pine trees associated with installation of the gen-tie cable tray will be mitigated via onsite replacement in accordance with a forthcoming landscape plan and/or via purchase of mitigation credits at an offsite bank such as the City of Escondido’s Daley Ranch Conservation Bank.” Staff requests additional information regarding these proposed mitigation options.

- **DR-9:** For mitigation proposed through an on-site landscape plan, please prepare and submit a Landscape Plan that includes the following:
 - a) A map and coordinates of the proposed planting area;
 - b) The proposed mitigation ratios for tree replacement and species to be planted;
 - c) Information on soil type;
 - d) A description of the management regime (i.e., tree maintenance and watering schedule, if any);
 - e) Include a replacement plan in case of tree loss due to decline or failure; and
 - f) Written confirmation from the City of Escondido that this approach would be acceptable mitigation for loss of trees.

Response: An updated landscape plan is attached (Attachment B). The proposed Project includes the removal of three queen palms (*Syagrus romanzoffiana*), up to five Canary Island pines (*Pinus canariensis*), and one dead Aleppo pine (*Pinus halepensis*). The trees are proposed to be replaced at a 1:1 mitigation ratio, specifically planting three southern magnolia trees (*Magnolia grandiflora*) and six canary island pines as replacement for the removal of the nine mature trees. . Soil within the proposed mitigation area for the six replacement pines is comprised of Vista coarse sandy loam, 5 to 9 percent slopes. A description of the management regime is included in the landscape plan. In addition, please see the attached written communication with the City of Escondido (Attachment C).

- **DR-10:** Alternatively, for mitigation involving purchase of credits from an approved mitigation bank, please provide the following:
 - a) Records of conversation with the conservation bank (e.g., transcripts of meetings, emails) confirming availability of mitigation credits for tree replacement; and
 - b) Written confirmation from the City of Escondido that this approach would be acceptable as mitigation.

Response: Per DR-9, trees will be planted within the Project Area. If the Project site does not have the required space to accommodate the required number of trees, the Project applicant will discuss off-site options with the City of Escondido.

Data Request-11

According to Table 3 of TN 262238, (PDF page 71), mature trees numbered 110 through 112 are queen palms (*Syagrus romanzoffiana*) marked for removal. Also marked for removal are five mature Canary Island pine trees (trees 31, 32, 78, 81, and 82). Based on a mitigation ratio of 1:1, as prescribed within the City of Escondido’s Grading Ordinance Section 33-1068, a total of eight replacement trees would be required to be planted (TN 262238 page 76).

However, TN 262237 (PDF page 48) indicates only that “impacts associated with the potential removal of Canary Island pine trees associated with installation of the gen-tie cable tray will be mitigated”. Staff requests additional information regarding the proposed tree mitigation measures.

- **DR-11:** Please clarify the number and species of trees that would be mitigated and specify the species proposed for replacement. See also Data Requests 9 and 10.

Response: The Project's site plan indicates that eight mature trees would need to be removed to accommodate the necessary space to construct the Project. Five of those trees would be removed for the aboveground, gen-tie cable tray installation on the northern portion of the Enterprise Emergency Peaker Project, and three would be removed in the Electrical Equipment Pad yard south of Auto Park Way. The eight trees planned for removal include three Queen palm trees associated with the electrical equipment pad, and five Canary Island pine associated with the cable tray. In addition, one dead Aleppo pine tree would be removed and replaced as shown on the landscape plan. Pursuant to the Grading Ordinance, removal of any mature tree shall be replaced at a 1:1 ratio and the removal of any protected tree shall be mitigated at a 2:1 ratio.

For the proposed removal of the eight live trees, if on-site replanting is proven to not be possible, planting off-site is another feasible alternative along with the purchasing of credit into an off-site mitigation bank, such as the Daley Ranch Conservation Bank in the city or the donation of funds into a local agency, such as the Resource Conservation District of Greater San Diego County that plants and maintains native trees.

Data Request-12 through -14

Section 5.14.3 of the PTA, Mitigation Measures, states that impacts related to public services and wildfire hazards are expected to be less than significant and, therefore, will not require additional mitigation measures. However, it is possible that the BESS system could be subject to thermal runaway and result in a battery fire. Fires at battery storage facilities can be difficult to extinguish and can result in the discharge of hydrogen fluoride, heavy metals, such as lithium, cobalt, nickel and copper, and semi-volatile organic compounds (TEEX 2024). Potential impacts from a BESS fire on special-status plant and wildlife species could occur from smoke and fine particles contaminating habitat and water sources (Claassen et al. 2024). Impacts could include risks from chemical exposure, smoke inhalation, soil and water contamination, mortality, and habitat degradation. A BESS fire would be expected to pose a high risk to special-status species if the smoke plume deposits chemicals in the Project Area for species with limited ranges, breeding species, and species that forage on plants that would contain harmful chemicals, and species that rely on ephemeral water sources that could concentrate harmful chemicals should a fire occur.

Chemicals from firefighting runoff can contaminate forage and water, while noise and human activity may disrupt critical behaviors for special-status species, such as foraging and burrow use. Soil contamination and habitat degradation in adjacent areas may also persist long after the fire event. Post fire cleanup or soil sampling could result in disturbance to burrows and animals in adjacent habitat and contaminated spoils could transport dust far from the initial source of the fire.

- **DR-12:** Describe potential impacts caused by a BESS fire, including but not limited to:
 - a) direct mortality of special status species caused by fire;
 - b) airborne deposition of heavy metals, semi-volatile compounds, and other chemicals released by fire on species status habitats, and
 - c) impacts associated with fire control activity such as use of fire retardant.

Response: A Hazard Consequence Analysis (HCA) was developed by Coffman Engineers, Inc. using the PHAST model. Based on the modeling, the HCA determined that based on the battery type and configuration, a large-scale fire which goes beyond the battery storage facility is unlikely to occur. The proposed Project includes containerized battery systems with internal heating ventilation and air conditioning and internal fire detection and fire suppression systems in each container. UL 9540A testing has demonstrated that the failure and thermal runaway of one module is likely to be contained within the container. UL 9540A testing demonstrates that thermal runaway events are self-limiting, confined to a single module, and do not generate sufficient heat flux or flame to ignite adjacent equipment. No propagation, explosion, or enclosure-to-enclosure fire spread was observed. Accordingly, the likelihood of a large-scale fire involving multiple modules or enclosures at the BESS site is considered unlikely. In addition, each containerized battery system will be equipped with internal

heating ventilation and air conditioning and internal fire detection and fire suppression systems. Therefore, any fire that may occur would likely be contained within the Project Area and would not spread to the surrounding undeveloped areas.

The area immediately surrounding the Project site is primarily comprised of disturbed habitat, developed lands and ornamental plantings which do not support habitat for special-status species. As applicable over time, combustible vegetation on and around the Enterprise BESS Project boundaries would continue to be actively managed to minimize fire risk. Additionally, the Enterprise BESS Project would comply with all applicable City of Escondido fire standards. However, should fire extend into the vegetated areas typical firefighting measures would be enacted, preventing the spread of fire to coastal sage scrub. Direct mortality of special status species caused by fire is not expected to occur.

The potential for airborne deposition of heavy metals, semi-volatile compounds, and other chemicals released by fire to reach adjacent habitat, and the potential to effect on associated plant and wildlife species, was analyzed in the context of the findings presented in the SFPE Foundation report, *Environmental and Health Impacts of Thermal Runaway Events in Outdoor Lithium-Ion Battery Energy Storage System Installations* (June 2025). This report identified potential toxic and asphyxiant gases produced during Li-ion thermal runaway, including, but not limited to, benzene, carbon monoxide (CO), carbon dioxide (CO₂), hydrogen bromide (HBr), hydrogen chloride (HCl), hydrogen cyanide (HCN), hydrogen fluoride (HF), ammonia (NH₃), nitrogen dioxide (NO₂), and sulfur dioxide (SO₂). The literature review conducted in support of the report identified that the following metals have the potential to be emitted into the air during Li-ion thermal runaway: lithium (Li), nickel (Ni), manganese (Mn), cobalt (Co), aluminum (Al), copper (Cu) (considered a heavy metal), chromium (Cr) (considered a heavy metal), and zinc (Zn). Deposition of gases and metals on habitats depends on the type of thermal runaway (flaming or non-flaming).

Flaming Thermal Runaway: *Thermal runaway conditions in which off-gasses from the cells are ignited, via auto-ignition due to sufficient internal temperatures or via an external ignition source, and sustained combustion subsequently takes place. This condition is identified by the presence of visible flames.*

Non-flaming Thermal Runaway: *Thermal runaway conditions in which cells off-gas due to thermal decomposition but gases are not ignited, and no combustion occurs.*

The modeling conducted during the SFPE research shows shorter near-field exposure/distances for flaming cases, despite higher emission rates. Non-flaming scenarios can result in greater near-surface deposition because cooler, denser plumes travel closer to ground level. Modeled concentrations of metals in soil and surface water decline rapidly with distance and, for baseline scenarios, were generally below acute ecotoxicity thresholds at distances on the order of ~1 km. However, localized enrichment nearer the source and in depositional "hot spots" remains possible, especially for habitats immediately adjacent to the BESS footprint.

Firefighting activities associated with a BESS fire are expected to focus primarily on defensive actions, such as maintaining safe separation and cooling adjacent structures or equipment. Direct application of water or chemical fire retardants to a BESS enclosure during a flaming lithium-ion battery thermal runaway event is generally not recommended, as such actions have limited effectiveness and may exacerbate secondary hazards.

As a result, the generation of contaminated firewater runoff and the use of long-term fire retardants are not anticipated under normal response protocols. In the unlikely event that water is applied to protect adjacent habitat or structures, or defensive cooling, available analyses by the SFPE indicate that contaminated firewater generated during lithium-ion battery thermal runaway events is not expected to result in significant environmental impacts. While concentrations of metals, fluoride, or chloride in suppression water may be elevated relative to background conditions, these constituents are expected to be substantially diluted due to the large volumes of water typically used, thereby reducing potential toxicity. Based on comparisons with applicable acute ecotoxicological benchmarks, adverse short-term impacts to water-based biological resources are not anticipated.

Similarly, although fire retardant use is not expected, or recommended, for direct BESS fire suppression, limited application on surrounding fuels or structures could result in temporary surface residue or localized soil nutrient loading if used. Such impacts would be spatially limited, short-term in duration, and not expected to result in lasting adverse effects to soil, vegetation, or water resources with post-incident cleanup.

- **DR-13:** Describe the potential effects that the impacts above may have upon biological resources, including but not limited to:
 - Effects on wildlife and vegetation, including soil microbiota;
 - Effects on changes in habitat type; and
 - Effects related to soil contamination.

Response: Refer to DR-12.

- **DR-14:** Describe any potential mitigation for the above impacts (DR 12) and effects (DR 13) if they are considered significant.

Response: No additional mitigation recommended, refer to DR-12.

Attachment A

Study Area Figure

Figure 3 Project and Survey Areas



Imagery provided by Microsoft Bing and its licensors © 2025.

24-16971 Bio
Fig X Survey Area

Attachment B

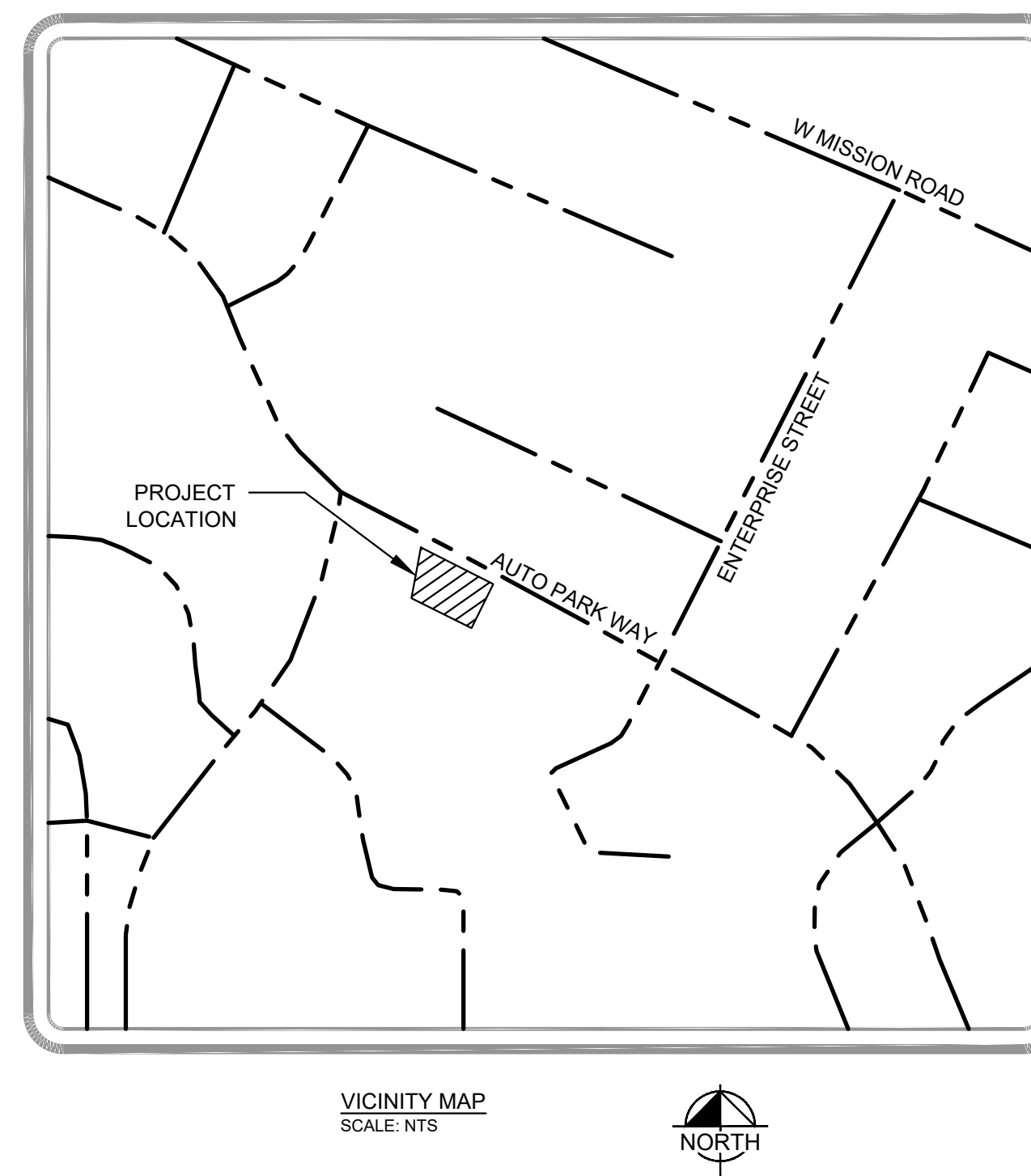
Landscape Plan

90% LANDSCAPE PLANS

FOR

ENTERPRISE BESS

2357 AUTO PARK WAY,
ESCONDIDO, CA 92029



SITE INFORMATION

SITE ADDRESS: 2357 AUTO PARK WAY, ESCONDIDO, CA 92029
 APN: 232-41-19-00, 232-41-20-00, AND 232-410-21-00
 PROPOSED BESS YARDS:
 TOTAL SITE AREA: MW 0.8 AC LEASE AREA
 ZONING CLASSIFICATION: ML - LIGHT INDUSTRIAL
 EXISTING USE: LIGHT INDUSTRIAL
 PROPOSED USE: ENERGY STORAGE FACILITY
 SETBACK REQUIREMENTS:
 FRONT: 10'
 SIDE/REAR: 0'

GENERAL LANDSCAPE NOTES

1. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND THE MOST CURRENT EDITION OF THE APPLICABLE CITY AND/OR REGIONAL STANDARDS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF THESE STANDARDS, SPECIFICATIONS AND DRAWINGS, AS WELL AS ALL OTHER STANDARDS AND SPECIFICATIONS WHICH MAY BE NECESSARY TO COMPLETE AND ACCURATELY INTERPRET THESE PLANS.
2. ALL QUANTITIES LISTED IN THE LANDSCAPE SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. IN THE CASE OF ANY DISCREPANCIES, PLANS SHALL OVERRIDE THE LANDSCAPE AND BID SCHEDULE QUANTITIES. CONTRACTOR SHALL VERIFY QUANTITIES SHOWN ON THE PLANS AND BASE THEIR BID ACCORDINGLY.
3. RESPONSIBILITY FOR ESTABLISHING SUBGRADES IS NOT INCLUDED IN THIS WORK. INSPECT SUBGRADES PRIOR TO COMMENCING WORK TO CONFIRM SUBGRADE DEPTHS AND GRADES. ADVISE LANDSCAPE ARCHITECT OF DISCREPANCIES WITH DRAWINGS OR SPECIFICATIONS. ALL PLANTING AREAS SHALL BE LEFT FREE OF CONSTRUCTION DEBRIS AND/OR TOXIC MATERIAL AND GRADED TO A LEVEL TO PERMIT LANDSCAPE CONSTRUCTION. TRENCHES OR OTHER FILLED EXCAVATIONS SHALL BE COMPACTED PRIOR TO LANDSCAPE INSTALLATION.
4. SITE GRADING NECESSITATED BY THE WORK AS IT PROGRESSES AND NOT SPECIFICALLY CALLED OUT ON THE PLANS WILL BE CONSIDERED INCIDENTAL WORK.
5. ALL LANDSCAPE AREAS SHALL BE UNIFORMLY GRADED SO THAT FINISHED SURFACES CONFORM TO THE TYPICAL SECTIONS AND PROPOSED GRADES SHOWN. FINISHED SURFACES SHALL BE REASONABLY SMOOTH, COMPACTED, AND FREE FROM IRREGULAR SURFACE DRAINAGE. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING THE FINISH GRADE AND SHALL BEAR FINAL RESPONSIBILITY FOR PROPER SURFACE DRAINAGE OF PLANTED AREAS.
6. AFTER ROUGH GRADING HAS OCCURRED, CONTRACTOR SHALL OBTAIN AN AGRONOMIC SOILS REPORT AND SUBMIT TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO AMENDMENTS AND/OR PLANTING. CONTRACTOR SHALL APPLY RECOMMENDATIONS UNLESS OTHERWISE NOTED BY LANDSCAPE ARCHITECT.
7. BACKFILL MIX SHALL BE PLACED IN 6" LIFTS AND TAMPED INTO PLACE AROUND THE PLANT. NO TRANSPLANTING SHALL BE DONE WHEN SOIL IS EXCESSIVELY WET. DO NOT COUNTERSINK AROUND CACTI OR SUCCULENTS. PROVIDE POSITIVE DRAINAGE AWAY FROM PLANT.
8. ALL TREES SHALL BE PLANTED A MINIMUM OF 5 FEET, ALL SHRUBS AND ACCENTS A MINIMUM OF 24", AND ALL GROUNDCOVERS 18" FROM EDGE OF CURBS, WALKS, WALLS, PADS, ETC., UNLESS DIRECTED OTHERWISE BY THE LANDSCAPE ARCHITECT.
9. EXCAVATE PITS, AS SHOWN ON DRAWINGS AND DETAILS. LOOSEN HARD SUBSOIL IN BOTTOM OF PIT. TEST DRAINAGE OF TREE, SHRUB AND PLANT PITS BY FILLING WITH WATER TWICE IN SUCCESSION. THE RETENTION OF WATER IN PLANTING PITS FOR MORE THAN TWENTY-FOUR (24) HOURS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. SUBMIT IN WRITING A PROPOSAL FOR THE CORRECTION TO THE OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE PROCEEDING WITH WORK.
10. IF ROCK, UNDERGROUND CONSTRUCTION, ADVERSE DRAINAGE CONDITIONS, OR OTHER OBSTRUCTIONS ARE ENCOUNTERED IN EXCAVATION FOR PLANTING OF ANY PLANT MATERIAL, NOTIFY THE OWNER'S REPRESENTATIVE. NEW LOCATIONS MAY BE SELECTED BY THE OWNER'S REPRESENTATIVE, OR INSTRUCTIONS MAY BE ISSUED TO DIRECT REMOVAL OF OBSTRUCTION. PROCEED WITH WORK ONLY AFTER APPROVAL OF THE OWNER'S REPRESENTATIVE.
11. DO NOT MAKE SUBSTITUTIONS. IF SPECIFIED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY FROM AT LEAST FIVE SOURCES TO THE OWNER'S REPRESENTATIVE, TOGETHER WITH PROPOSAL FOR USE OF EQUIVALENT MATERIAL FOR FINAL APPROVAL.
12. ALL PLANT MATERIAL AND SPECIFICATIONS TO CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK STANDARDS UNLESS OTHERWISE NOTED.
13. LAY OUT INDIVIDUAL TREE AND PLANT LOCATIONS AND AREAS FOR MULTIPLE PLANTINGS, STAKE LOCATIONS AND OUTLINE AREAS AND SECURE THE OWNER'S REPRESENTATIVE'S ACCEPTANCE BEFORE START OF PLANTING WORK. MAKE MINOR ADJUSTMENTS AS DIRECTED.
14. ALL SHRUBS SHALL HAVE A FULL HEAD THAT COVERS THE CAN DIAMETER (CAN FULL) AND A MINIMUM OF THREE STEMS/BRANCHES.
15. FINISH GRADE FOR PLANTED AREAS SHALL BE 1" BELOW ALL CURBS, WALKS AND PAVING WITH SMOOTH EVEN LINES AT EDGES OF STRUCTURES.
16. FINISH LANDSCAPE GRADES SHALL SLOPE AT A 2% GRADE AWAY FROM CURBS, WALKS, AND WALLS.
17. ALL LANDSCAPE AREAS SHALL RECEIVE A 3" DEPTH OF MULCH, UNLESS OTHERWISE NOTED ON THESE PLANS. TREES TO HAVE A 6" DIAMETER RING AROUND TRUNK FREE OF MULCH. MULCH SHALL EXTEND UNDER ALL SHRUBS AND PLANTS. APPLY PRE-EMERGENT HERBICIDE PRIOR TO AND AFTER MULCH INSTALLATION.
18. PROVIDE SAMPLES OF PROPOSED MULCH SHOWING COLOR, GRADATION SIZE RANGE AND TEXTURE INCLUDING PROPOSED SOURCE. PROVIDE 1/2 CUBIC FOOT SAMPLE OF EACH.
19. ANY ROCK MULCH OR DECOMPOSED GRANITE SHALL NOT CONTAIN LUMPS OR BALLS OF CLAY, CALICHE, ORGANIC MATTER OR CALCAREOUS COATING. PROVIDE WEED BARRIER UNDER ALL DG AND/OR ROCK MULCH. THE CONTRACTOR SHALL ENSURE THAT SUFFICIENT QUANTITY IS AVAILABLE FROM A SINGLE SOURCE TO COMPLETE THE PROJECT. THE OWNER'S REPRESENTATIVE SHALL APPROVE SAMPLES PRIOR TO ORDERING.
20. NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT AND SIDEWALKS HAVE BEEN SWEEPED CLEAN OF ALL DIRT AND DEBRIS ACCORDING TO PLANS.
21. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY PERMITS REQUIRED. (SEE THE CITY GENERAL CONDITIONS)
22. ALL CONSTRUCTION ROADS AND COMPACTED AREAS DEVELOPED THROUGH CONSTRUCTION THAT ARE WITHIN THE LANDSCAPE AREAS SHALL BE SCARIFIED AND LOOSENED TO A DEPTH OF 12" PRIOR TO LANDSCAPE AND IRRIGATION WORK BEGINNING
23. PLANTINGS WITHIN THE SIGHT VISIBILITY TRIANGLE LINE SHALL BE MAINTAINED SO THAT NO LIMBS HANG LOWER THAN SEVEN (7) FEET AND SHRUBS OR OTHER PLANTS PLANTED WITHIN THE SIGHT VISIBILITY TRIANGLE LINE SHALL BE NO TALLER THAN TWO (2) FEET AT FULL GROWTH.

PROJECT TEAM

DEVELOPER
 CHUCK ENCARNACION
 MIDDLE RIVER POWER
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SURVEYOR
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NO.	REVISIONS	DATE	BY

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KHA PROJECT
 PROJ: 195582002
 DATE: 4/30/26
 SCALE: AS SHOWN
 DESIGNED BY: PF
 DRAWN BY: PF
 CHECKED BY: MD

LANDSCAPE COVER

ENTERPRISE BESS
 PREPARED FOR
RAVEN VOLT
 2381 AUTO PARK WAY,
 ESCONDIDO, CA 92029

SHEET NUMBER
L0.0



GENERAL LANDSCAPE NOTES

- THE WORK SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND THE MOST CURRENT EDITION OF THE APPLICABLE CITY AND/OR REGIONAL STANDARDS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF THESE STANDARDS, SPECIFICATIONS AND DRAWINGS, AS WELL AS ALL OTHER STANDARDS AND SPECIFICATIONS WHICH MAY BE NECESSARY TO COMPLETE AND ACCURATELY INTERPRET THESE PLANS.
- ALL QUANTITIES LISTED IN THE LANDSCAPE SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. IN THE CASE OF ANY DISCREPANCIES, PLANS SHALL OVERRIDE THE LANDSCAPE AND BID SCHEDULE QUANTITIES. CONTRACTOR SHALL VERIFY QUANTITIES SHOWN ON THE PLANS AND BASE THEIR BID ACCORDINGLY.
- RESPONSIBILITY FOR ESTABLISHING SUBGRADES IS NOT INCLUDED IN THIS WORK. INSPECT SUBGRADES PRIOR TO COMMENCING WORK TO CONFIRM SUBGRADE DEPTHS AND GRADES. ADVISE LANDSCAPE ARCHITECT OF DISCREPANCIES WITH DRAWINGS OR SPECIFICATIONS IN WRITING IMMEDIATELY BEFORE PROCEEDING WITH WORK. ALL PLANTING AREAS SHALL BE LEFT FREE OF CONSTRUCTION DEBRIS AND/OR TOXIC MATERIAL AND GRADED TO A LEVEL TO PERMIT LANDSCAPE CONSTRUCTION. TRENCHES OR OTHER FILLED EXCAVATIONS SHALL BE COMPACTED PRIOR TO LANDSCAPE INSTALLATION.
- SITE GRADING NECESSITATED BY THE WORK AS IT PROGRESSES AND NOT SPECIFICALLY CALLED OUT ON THE PLANS WILL BE CONSIDERED INCIDENTAL WORK.
- ALL LANDSCAPE AREAS SHALL BE UNIFORMLY GRADED SO THAT FINISHED SURFACES CONFORM TO THE TYPICAL SECTIONS AND PROPOSED GRADES SHOWN. FINISHED SURFACES SHALL BE REASONABLY SMOOTH, COMPACTED, AND FREE FROM IRREGULAR SURFACE DRAINAGE. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING THE FINISH GRADE AND SHALL BEAR FINAL RESPONSIBILITY FOR PROPER SURFACE DRAINAGE OF PLANTED AREAS. REFER TO SEPARATE CIVIL GRADING PLANS AS NECESSARY.
- AFTER ROUGH GRADING HAS OCCURRED, CONTRACTOR SHALL OBTAIN AN AGRONOMIC SOILS REPORT AND SUBMIT TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO AMENDMENTS AND/OR PLANTING. CONTRACTOR SHALL APPLY RECOMMENDATIONS UNLESS OTHERWISE NOTED BY LANDSCAPE ARCHITECT.
- BACKFILL MIX SHALL BE PLACED IN 6" LIFTS AND TAMPED INTO PLACE AROUND THE PLANT. NO TRANSPORTING SHALL BE DONE WHEN SOIL IS EXCESSIVELY WET. DO NOT COUNTERSINK AROUND CACTI OR SUCCULENTS. PROVIDE POSITIVE DRAINAGE AWAY FROM PLANT.
- ALL TREES SHALL BE PLANTED A MINIMUM OF 5 FEET, ALL SHRUBS AND ACCENTS A MINIMUM OF 24", AND ALL GROUNDCOVERS 18" FROM EDGE OF CURBS, WALKS, WALLS, PADS, ETC., UNLESS DIRECTED OTHERWISE BY THE LANDSCAPE ARCHITECT.
- EXCAVATE PITS, AS SHOWN ON DRAWINGS AND DETAILS. LOOSEN HARD SUBSOIL IN BOTTOM OF PIT. TEST DRAINAGE OF TREE, SHRUB AND PLANT PITS BY FILLING WITH WATER TWICE IN SUCCESSION. THE RETENTION OF WATER IN PLANTING PITS FOR MORE THAN TWENTY-FOUR (24) HOURS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. SUBMIT IN WRITING A PROPOSAL FOR THE CORRECTION TO THE OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE PROCEEDING WITH WORK.
- IF ROCK, UNDERGROUND CONSTRUCTION, ADVERSE DRAINAGE CONDITIONS, OR OTHER OBSTRUCTIONS ARE ENCOUNTERED IN EXCAVATION FOR PLANTING OF ANY PLANT MATERIAL, NOTIFY THE OWNER'S REPRESENTATIVE. NEW LOCATIONS MAY BE SELECTED BY THE OWNER'S REPRESENTATIVE, OR INSTRUCTIONS MAY BE ISSUED TO DIRECT REMOVAL OF OBSTRUCTION. PROCEED WITH WORK ONLY AFTER APPROVAL OF THE OWNER'S REPRESENTATIVE.
- DO NOT MAKE SUBSTITUTIONS. IF SPECIFIED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY FROM AT LEAST FIVE SOURCES TO THE OWNER'S REPRESENTATIVE, TOGETHER WITH PROPOSAL FOR USE OF EQUIVALENT MATERIAL FOR FINAL APPROVAL.
- ALL PLANT MATERIAL AND SPECIFICATIONS TO CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK STANDARDS UNLESS OTHERWISE NOTED.
- LAY OUT INDIVIDUAL TREE AND PLANT LOCATIONS AND AREAS FOR MULTIPLE PLANTINGS, STAKE LOCATIONS AND OUTLINE AREAS AND SECURE THE OWNER'S REPRESENTATIVE'S ACCEPTANCE BEFORE START OF PLANTING WORK. MAKE MINOR ADJUSTMENTS AS DIRECTED.
- ALL SHRUBS SHALL HAVE A FULL HEAD THAT COVERS THE CAN DIAMETER (CAN FULL) AND A MINIMUM OF THREE STEMS/BRANCHES.
- FINISH GRADE FOR PLANTED AREAS SHALL BE 1" BELOW ALL CURBS, WALKS AND PAVING WITH SMOOTH EVEN LINES AT EDGES OF STRUCTURES.
- FINISH LANDSCAPE GRADES SHALL SLOPE AT A 2% GRADE AWAY FROM CURBS, WALKS, AND WALLS.
- ALL LANDSCAPE AREAS SHALL RECEIVE A 3" DEPTH OF MULCH, UNLESS OTHERWISE NOTED ON THESE PLANS. TREES TO HAVE A 6" DIAMETER RING AROUND TRUNK FREE OF MULCH. MULCH SHALL EXTEND UNDER ALL SHRUBS AND PLANTS. APPLY PRE-EMERGENT HERBICIDE PRIOR TO AND AFTER MULCH INSTALLATION.
- PROVIDE SAMPLES OF PROPOSED MULCH SHOWING COLOR, GRADATION SIZE RANGE AND TEXTURE INCLUDING PROPOSED SOURCE. PROVIDE 1/2 CUBIC FOOT SAMPLE OF EACH.
- ANY ROCK MULCH OR DECOMPOSED GRANITE SHALL NOT CONTAIN LUMPS OR BALLS OF CLAY, CALICHE, ORGANIC MATTER OR CALCAREOUS COATING. PROVIDE WEED BARRIER UNDER ALL DG AND/OR ROCK MULCH. THE CONTRACTOR SHALL ENSURE THAT SUFFICIENT QUANTITY IS AVAILABLE FROM A SINGLE SOURCE TO COMPLETE THE PROJECT. THE OWNER'S REPRESENTATIVE SHALL APPROVE SAMPLES PRIOR TO ORDERING.
- NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT AND SIDEWALKS HAVE BEEN SWEEPED CLEAN OF ALL DIRT AND DEBRIS ACCORDING TO PLANS.
- IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY PERMITS REQUIRED. (CONTRACTOR SHALL REVIEW THE CITY GENERAL CONDITIONS AND ALL APPLICABLE CODE STANDARDS)
- ALL CONSTRUCTION ROADS AND COMPACTED AREAS DEVELOPED THROUGH CONSTRUCTION THAT ARE WITHIN THE LANDSCAPE AREAS SHALL BE SCARIFIED AND LOOSENED TO A DEPTH OF 12" PRIOR TO LANDSCAPE AND IRRIGATION WORK BEGINNING
- PLANTINGS WITHIN THE SIGHT VISIBILITY TRIANGLE LINE SHALL BE MAINTAINED SO THAT NO LIMBS HANG LOWER THAN SEVEN (7) FEET AND SHRUBS OR OTHER PLANTS PLANTED WITHIN THE SIGHT VISIBILITY TRIANGLE LINE SHALL BE NO TALLER THAN TWO (2) FEET AT FULL GROWTH.

LANDSCAPE ARCHITECT NOTES

- THE TERM "LANDSCAPE ARCHITECT" USED HEREIN SHALL MEAN THE LANDSCAPE ARCHITECT WHO HAS SIGNED AND SEALED THESE PLANS AND IS IN RESPONSIBLE CHARGE OF THE LANDSCAPE ARCHITECTURE DESIGN. THE TERM "CONTRACTOR" USED HEREIN SHALL MEAN ANY GENERAL CONTRACTOR OR SUBCONTRACTOR USING THESE PLANS. ANY AGENCY SIGNATURE OR APPROVAL ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF ANY OF THESE NOTES.
- THE LANDSCAPE ARCHITECT WILL NOT PROVIDE, OBSERVE, COMMENT ON NOR ENFORCE ANY SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY MEASURES AND SHALL BE SOLELY RESPONSIBLE FOR SAME AND COMPLYING WITH ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS. THE CONTRACTOR AGREES THAT SHE/HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS AND SAFETY OF ALL PERSONS AND PROPERTY DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- THE LANDSCAPE ARCHITECT SHALL HAVE NO RESPONSIBILITY FOR ANY OF THE CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION, TECHNIQUES, EQUIPMENT CHOICE AND USAGE, SEQUENCE, SCHEDULE, SAFETY PROGRAMS, OR SAFETY PRACTICES, NOR SHALL THE LANDSCAPE ARCHITECT HAVE ANY AUTHORITY OR RESPONSIBILITY TO STOP OR DIRECT THE WORK OF ANY CONTRACTOR.
- THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE LANDSCAPE ARCHITECT AND OWNER, THEIR AGENTS AND EMPLOYEES, HARMLESS FROM ANY AND ALL CLAIMS, DEMANDS, JUDGMENTS, LOSS, DAMAGES, COSTS, EXPENSES, FEES OR LIABILITY WHATSOEVER, REAL OR ALLEGED, IN CONNECTION WITH, IN WHOLE OR IN PART, DIRECTLY OR INDIRECTLY, THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE LANDSCAPE ARCHITECT.
- IF THERE ARE ANY QUESTIONS REGARDING THESE PLANS, THE CONTRACTOR SHALL REQUEST IN WRITING FROM THE LANDSCAPE ARCHITECT AND THE OWNER, AN INTERPRETATION BEFORE DOING ANY RELATED OR IMPACTED WORK.
- THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO PROTECT THE PROPERTY FROM ANY EROSION AND SILTATION THAT RESULT FROM CONTRACTOR OPERATIONS BY APPROPRIATE MEANS UNTIL SUCH TIME THAT THE PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENANCE BY WHOMEVER IS TO BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO STARTING WORK NEAR THEIR FACILITIES AND SHALL COORDINATE WORK WITH UTILITY COMPANY REPRESENTATIVES.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED FROM A SEARCH OF READILY AVAILABLE RECORDS. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN HEREON AND ANY OTHERS NOT OF RECORD OR NOT SHOWN ON THESE PLANS. ALL DAMAGES THERETO CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE APPROPRIATE SPECIFICATIONS AND STANDARDS AT THE SOLE EXPENSE OF THE CONTRACTOR.
- THE LOCATION, ELEVATIONS, SIZE, TYPE AND CONDITION OF EXISTING IMPROVEMENTS ADJACENT TO THE PROPOSED WORK INDICATED ON THESE PLANS SHALL BE CONFIRMED BY THE CONTRACTOR BY FIELD MEASUREMENTS AND OBSERVATIONS PRIOR TO CONSTRUCTION OF NEW WORK. THE CONTRACTOR WILL IMMEDIATELY INFORM THE LANDSCAPE ARCHITECT IN WRITING IF ANY DISCREPANCIES OR CONFLICTING INFORMATION IS FOUND.
- THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES AS NEEDED, SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY DUE TO THE ACTUAL LOCATION, SIZE, TYPE, OR CONDITION OF EXISTING FACILITIES DIFFERING FROM WHAT IS SHOWN ON THESE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ANY DAMAGE TO THE EXISTING IMPROVEMENTS AND REPLACEMENT TO THE SATISFACTION OF THE OWNER.
- SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING IMMEDIATELY BEFORE PROCEEDING WITH THE WORK IN QUESTION.
- ANYTHING MENTIONED IN THE SPECIFICATIONS, IF ANY, AND NOT SHOWN ON THE DRAWINGS, OR SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS, SHALL BE OF LIKE EFFECT AS IF SHOWN OR MENTIONED IN BOTH.

I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AB-1881 AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.

I AM FAMILIAR WITH THE REQUIREMENT FOR LANDSCAPE AND IRRIGATION PLANS CONTAINED IN THE ESCONDIDO WATER EFFICIENT LANDSCAPE REGULATIONS. I HAVE PREPARED THIS PLAN IN COMPLIANCE WITH THOSE REGULATIONS AND THE LANDSCAPE DESIGN MANUAL. I CERTIFY THAT THE PLAN IMPLEMENTS THOSE REGULATIONS TO PROVIDE EFFICIENT USE OF WATER.

Luke Davies
LUKE D. DAVIES, LLA 7145

PLANT SCHEDULE

SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT	HEIGHT/SPREAD	CAL.	WUCOLS
TREES						
	2	CHILOPSIS LINEARIS / DESERT WILLOW	24" BOX	3-4' HT. X 3-4' SPR.	0.5" CAL.	LOW
	9	EXISTING TREE / TO BE REMOVED	-	-	-	-
	4	MAGNOLIA GRANDIFLORA 'MONLIA' / MAJESTIC BEAUTY® SOUTHERN MAGNOLIA	24" BOX	9'-11" HT. X 4'-5" SPR.	1" CAL.	MODERATE
	6	PINUS CANARIENSIS / CANARY ISLAND PINE	24" BOX	9'-11" HT. X 4'-5" SPR.	1" CAL.	MODERATE
SHRUBS						
	13	FRANGULA CALIFORNICA 'LITTLE SUR' / LITTLE SUR COFFEEBERRY	5 GAL.	6" O.C.		LOW
	28	PERITOMA ARBOREA / BLADDERPOD	5 GAL.	6" O.C.		LOW
BIO-RETENTION						
	33	FESTUCA CALIFORNICA / CALIFORNIA FESCUE	5 GAL.	3" O.C.		LOW
	19	MUHLBERGIA RIGENS / DEER GRASS	5 GAL.	4" O.C.		MODERATE
INERTS						
	14,440 SF	ROCK MULCH 6" DEPTH MIN. OF APACHE SUNSET CRUSHED 2"-4" DIAMETER ROCK OVER COMMERCIAL-GRADE WEED BARRIER FABRIC. CONTRACTOR TO SUBMIT SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PROCUREMENT.				
	1,555 SF	3" DEPTH WOOD BARK MULCH				
	230 LF	ROOT CONTROL BARRIER				

STREET TREE REQUIREMENTS

STREET FRONTAGE	
1 TREE FOR EVERY 30 LF OF FRONTAGE REQUIRED	
180 LF OF STREET FRONTAGE / 30 FEET PER TREE =	6 TREES
PROVIDED =	6 TREES

TREE MITIGATION REQUIREMENTS

TREE MITIGATION	
1 TREE REQUIRED FOR EACH TREE REMOVED	
9 TREES TO BE REMOVED =	9 REPLACEMENT TREES REQUIRED
PROVIDED =	9 REPLACEMENT TREES

NO.	REVISIONS	DATE	BY

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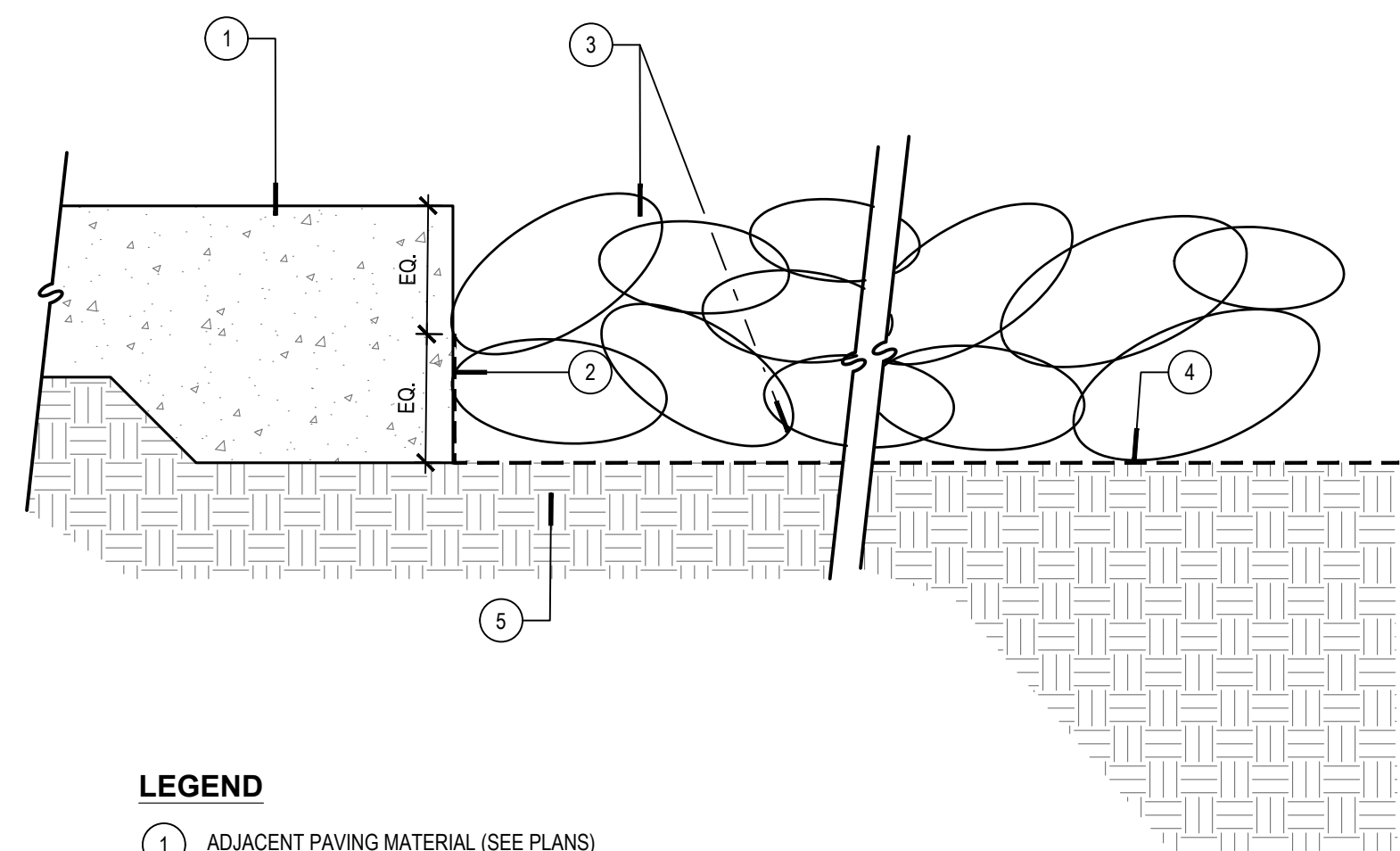
KHA PROJECT PROJ: 195582002	DATE 4/30/26	SCALE: AS SHOWN	DESIGNED BY: PF	DRAWN BY: PF	CHECKED BY: MD
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LANDSCAPE NOTES

ENTERPRISE BESS
PREPARED FOR
RAVEN VOLT
2381 AUTO PARK WAY,
ESCONDIDO, CA 92029



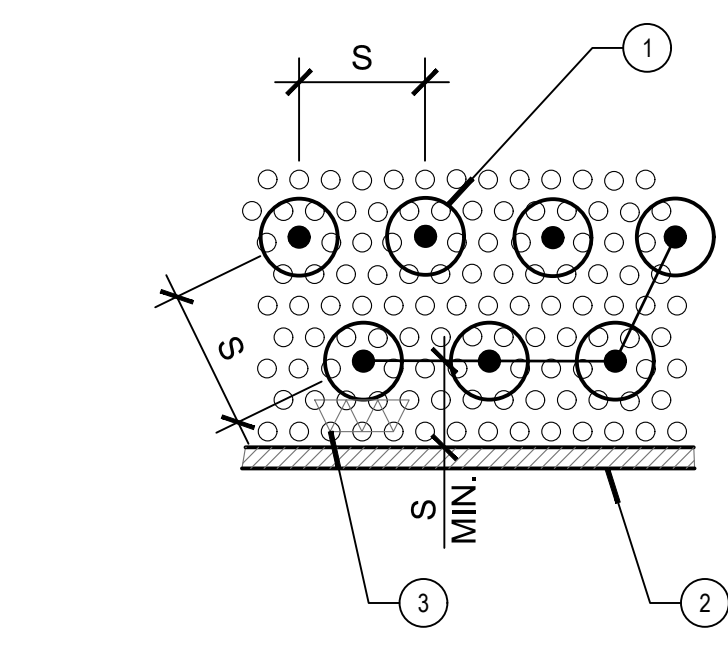
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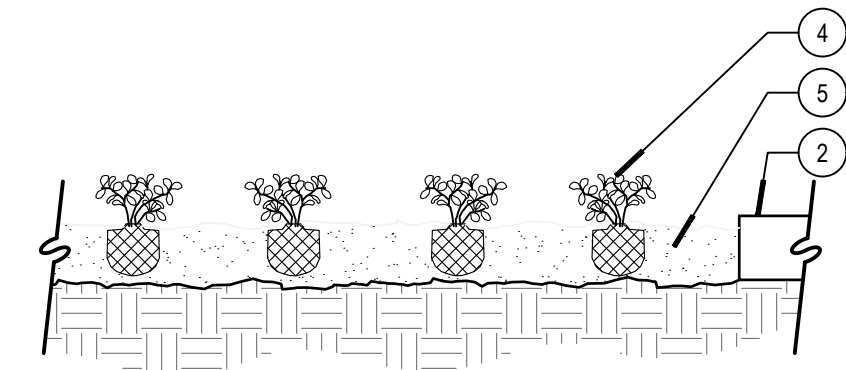
LEGEND

- 1 ADJACENT PAVING MATERIAL (SEE PLANS)
- 2 WRAP WEED BARRIER UP SIDE OF PAVING - ADHERE WITH CONSTRUCTION ADHESIVE CONT.
- 3 CRUSHED ROCK, SIZE PER PLANS
- 4 PERMEABLE WEED BARRIER - APPLY (2) ROUNDS PRE-EMERGENT HERBICIDE PRIOR TO PLACEMENT
- 5 COMPACT SUBGRADE PER SOIL'S REPORT

A CRUSHED ROCK
SCALE: 3" = 1'-0"



TRIANGULAR SPACING NTS



SECTION NTS

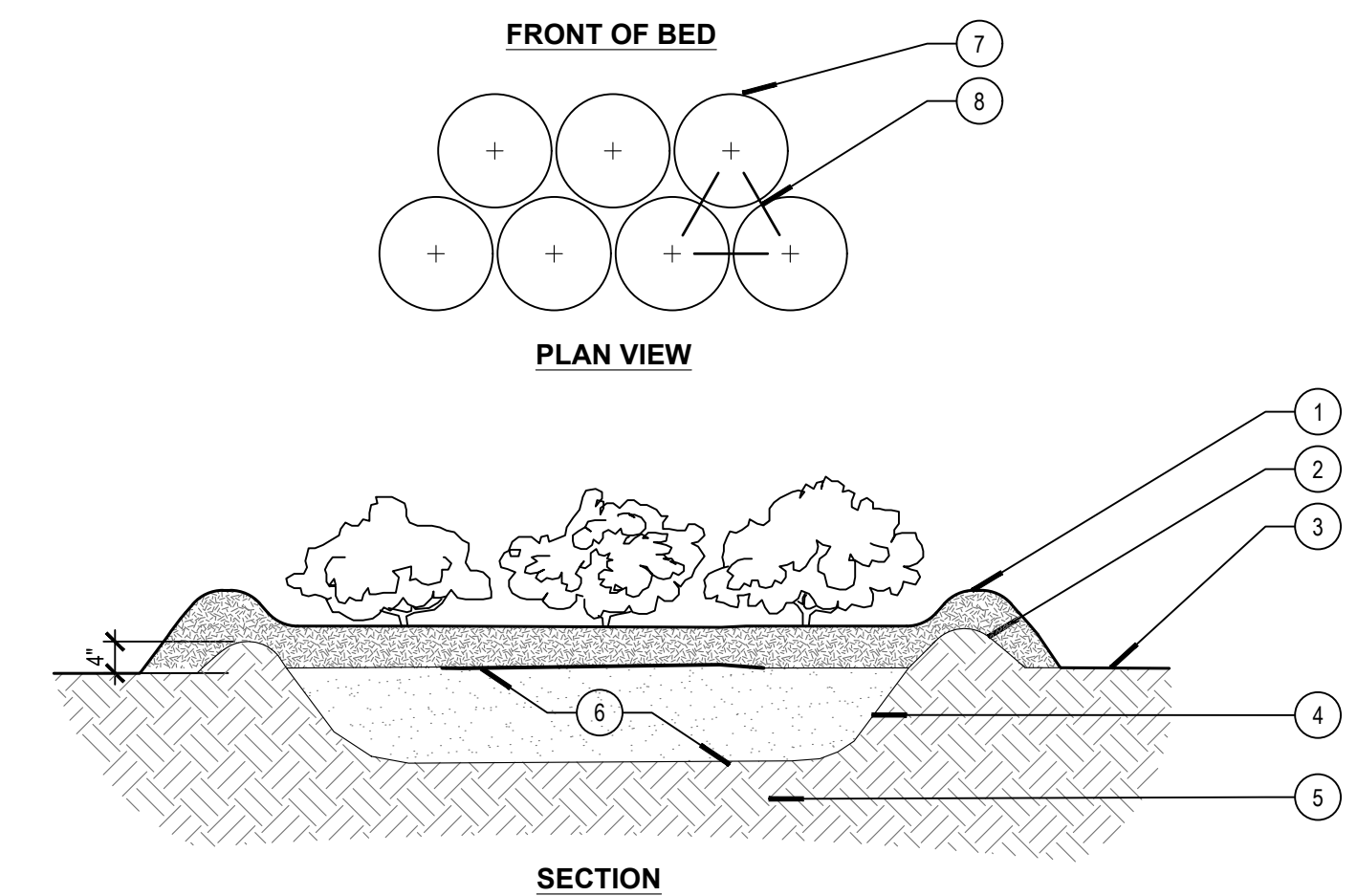
LEGEND

- 1 TRIANGULATED ROWS OF SHRUBS.
- 2 HARDSCAPE ELEMENT
- 3 TRIANGULATED ROWS OF GROUNDCOVER CONTINUE UP TO SHRUB WATERING BASING. SEE PLANT LEGEND FOR SPACING.
- 4 GROUND COVER TO BE PLANTED IN FLATS. CUTTING LINERS OF 1 GAL. CONTAINERS PER PLANS.
- 5 SOIL PREP REFER TO PLANTING SPECS AND NOTES.

NOTES

- A. S = FOR O.C. SPACING REFER TO SHEET L4.000, PLANTING LEGEND.
- B. IN AREAS WITH GROUNDCOVER PLANTED FROM FLATS, THE MULCH DEPTH SHALL BE NO LESS THAN ONE AND ONE-HALF INCHES.

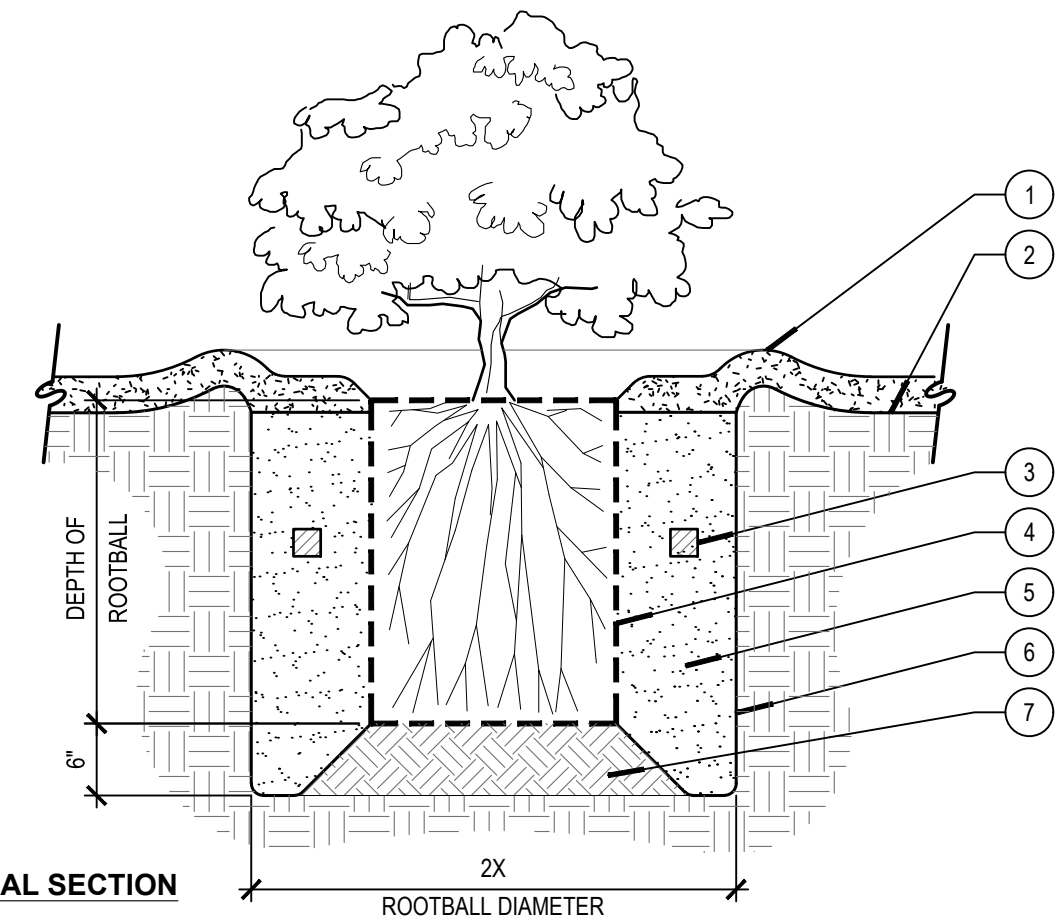
B GROUND COVER SPACING
SCALE: 1" = 1'-0"



LEGEND

- 1 3" DEPTH MULCH LAYER
 - 2 4" HIGH BERM FIRMLY COMPACTED
 - 3 FINISH GRADE
 - 4 SCARIFY BOTTOM AND SIDES OF PLANTING PIT
 - 5 UNDISTURBED SUB SOIL
 - 6 PREPARED PLANTING SOIL AMEND ENTIRE BED FOR GROUNDCOVER BED
 - 7 BEST FACE OF PLANT TO FACE FRONT OF PLANTING
 - 8 REFER TO PLANT SCHEDULE AND PLANS FOR SPACING LAYOUT
- NOTES:
1. REFERENCE PLANTING SPECIFICATIONS FOR ADDITIONAL INFORMATION.

C TYPICAL GROUNDCOVER PLANTING
SCALE: 1/2" = 1'-0"



TYPICAL SECTION N.T.S.

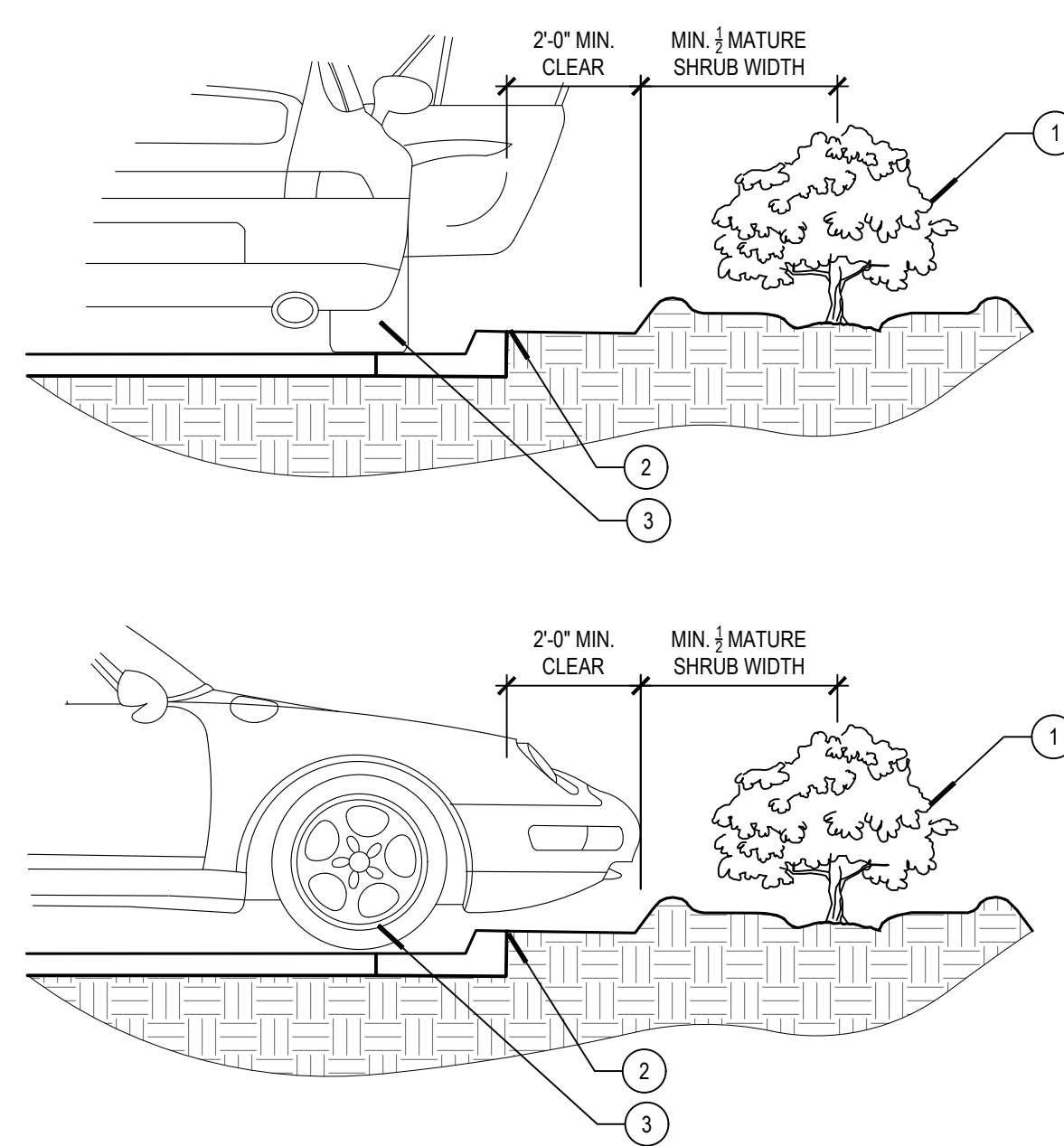
LEGEND

- 1 3" HIGH WATER RETENTION BASIN, FORMED FROM PLANT PIT SPOILS/MULCH; MAINTAIN 2" MIN. MULCH ATOP ROOTBALL.
- 2 FINISH GRADE WITH APPROVED MULCH. REFER TO NOTES.
- 3 PLANTING TABLETS. REFER TO NOTES.
- 4 ROOTBALL. INSTALL CROWN 1" MINIMUM ABOVE FINISHED GRADE.
- 5 PREPARED BACKFILL/NATIVE SOIL MIX; GRADUALLY ADD SOIL AND COMPACT LIGHTLY WHEN BACKFILLING; WATER HALFWAY AND ALLOW TO DRAIN PRIOR TO ADDING MORE SOIL.
- 6 SCARIFY SIDES OF PLANT PIT; BREAK UP HARD/COMPACTED SOIL AND LOOSEN SOIL.
- 7 6" ZONE OF OVER-EXCAVATED AND RECOMMENDED BACKFILL SOIL.

NOTES

- A. ALL PLANTING AREAS SHALL HAVE A 3" LAYER OF APPROVED NITROLIZED ORGANIC LANDSCAPE MULCH.
- B. REFER TO THE PROJECT HORTICULTURAL SOILS REPORT FOR ALL BACKFILL SOIL AMENDMENTS REQUIRED.
- C. AVOID PLANT INSTALLATION DIRECTLY IN FRONT OF IRRIGATION SPRAY AND RAKE OUT ALL SOIL EXCAVATION AS REQUIRED.
- D. PLANT TABS TO BE "SCOTT'S-AGRIFORM" OR APPROVED EQUAL QUANTITY AS RECOMMENDED BY MANUFACTURER SIZE TABLET CHART.

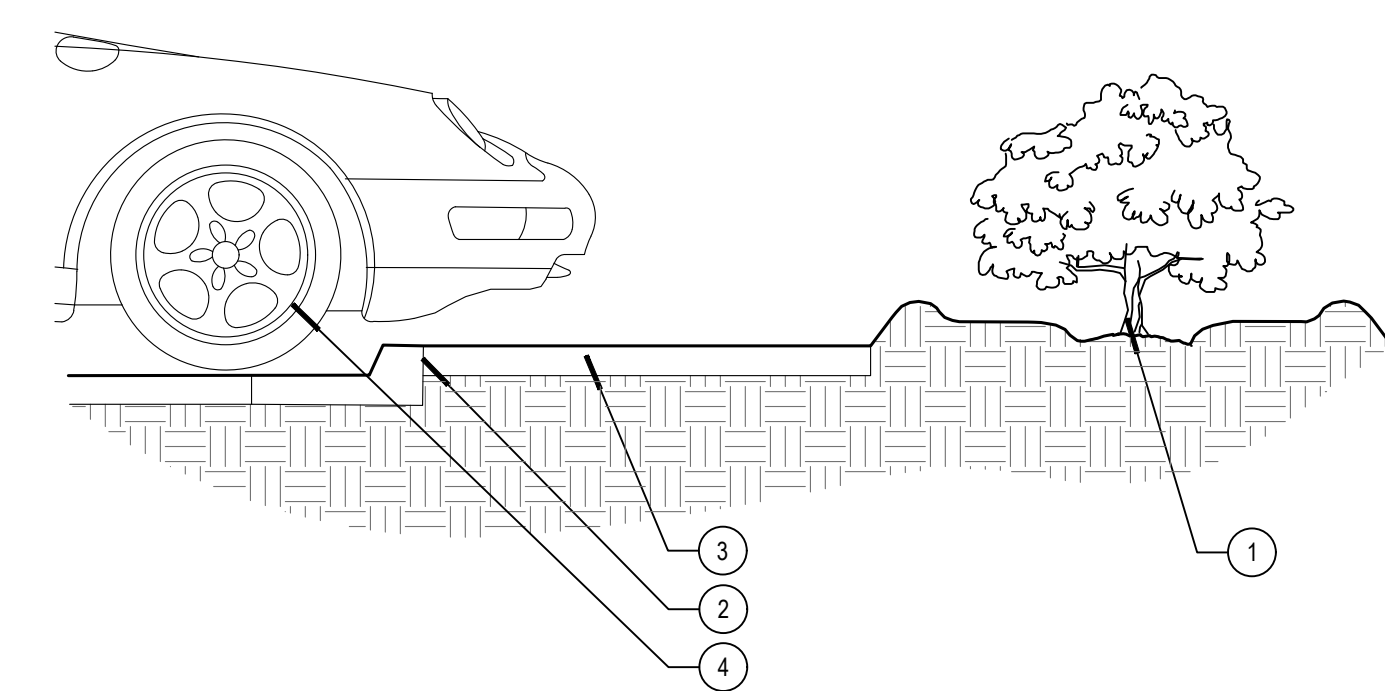
D SHRUB PLANTING
NOT TO SCALE



LEGEND

- 1 SHRUB PLANTING
- 2 BACK OF CURB
- 3 CAR

E SHRUB PLANTING AT CURB
SCALE: 3/8" = 1'-0"



LEGEND

- 1 SHRUB PLANTING
- 2 BACK OF CURB
- 3 SIDEWALK
- 4 CAR

F SHRUB PLANTING AT SIDEWALK
SCALE: 1" = 1'-0"

Plotted By: Huang, Cecelia Sheet Set: Kna Layout: LANDSCAPE DETAILS April 30, 2026 11:13:48am I:\shd\p01\ca_end1\SNDR_LDEI\195582002_Ravenvolt Enterprise\CAD\PlanSheets - ONSITE\1.0 LANDSCAPE PLAN.dwg
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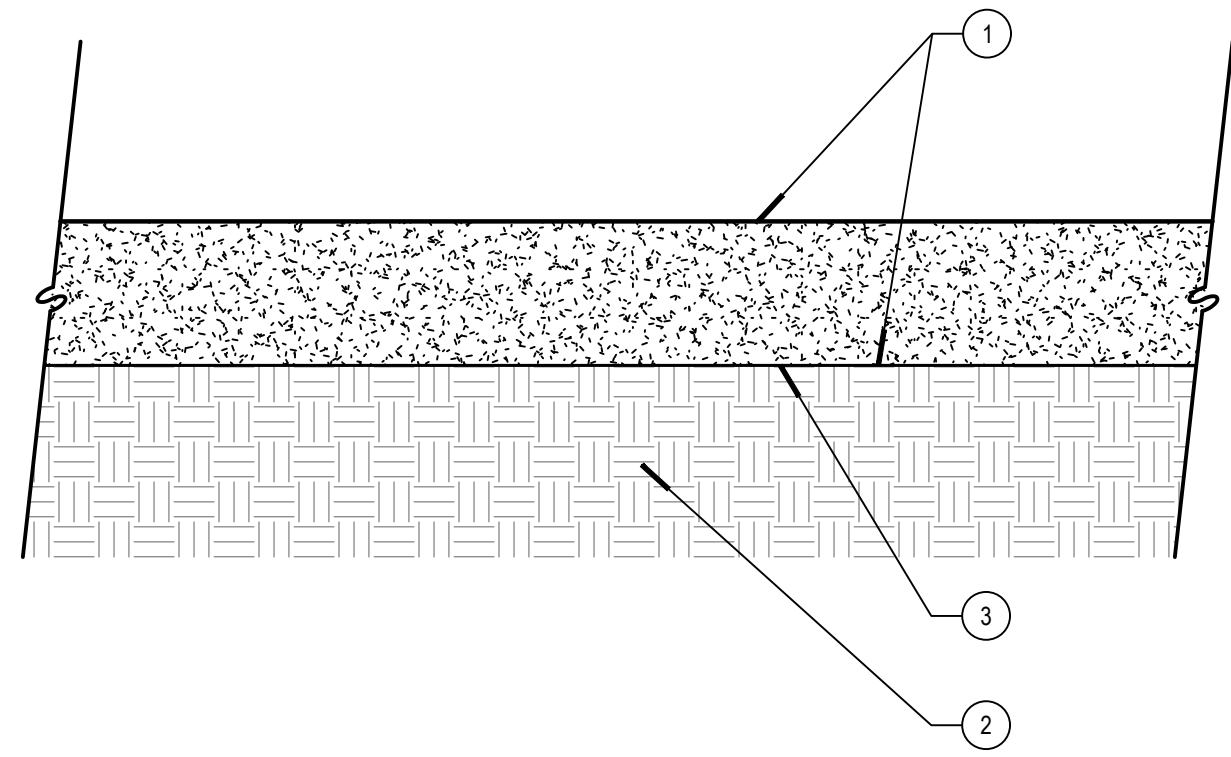


KHA PROJECT: PROJ 195582002
 DATE: 4/30/26
 SCALE: AS SHOWN
 DESIGNED BY: PF
 DRAWN BY: PF
 CHECKED BY: MD

LANDSCAPE DETAILS

ENTERPRISE BESS
 PREPARED FOR
RAVEN VOLT
 2381 AUTO PARK WAY,
 ESCONDIDO, CA 92029

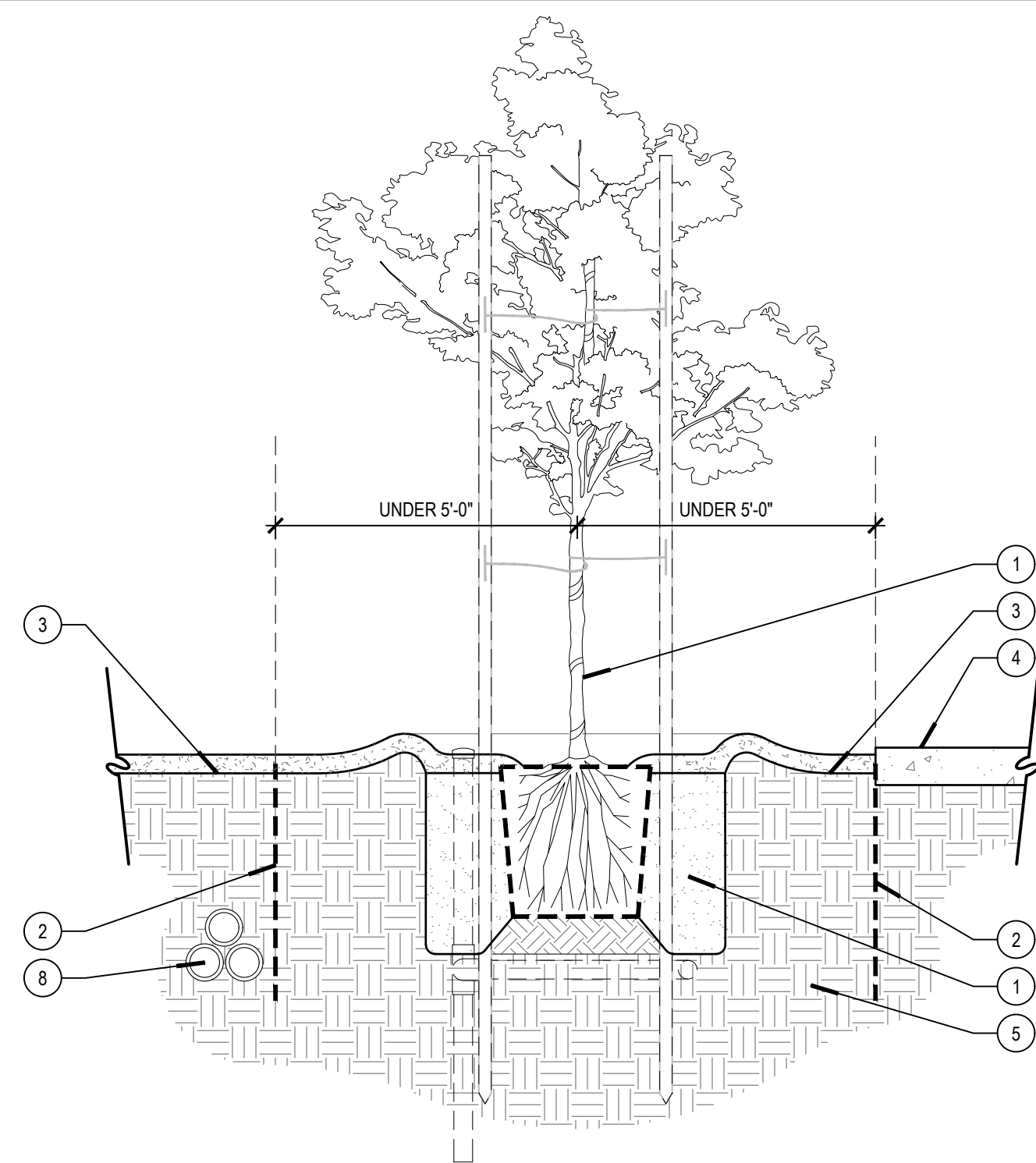




LEGEND

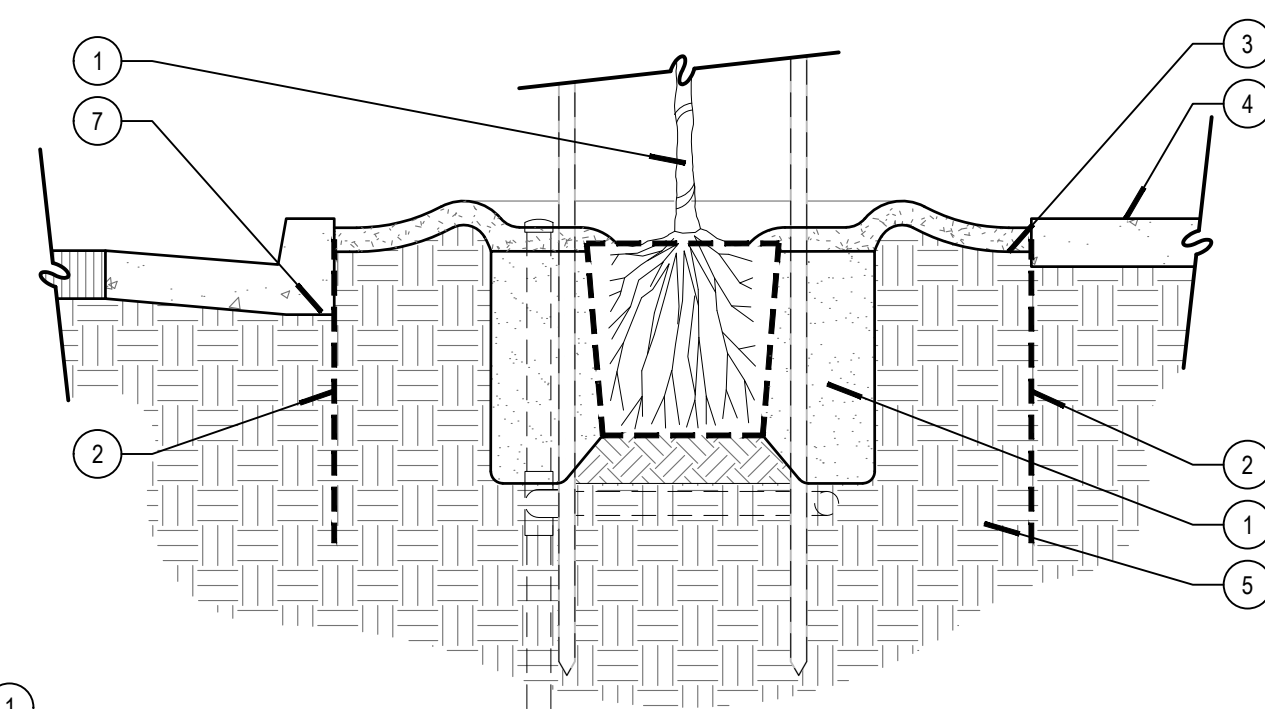
- 1 3" MULCH LAYER. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION
- 2 PREPARED PLANTING SOIL PER SPECIFICATIONS.
- 3 (2) ROUNDS PRE-EMERGENT HERBICIDE TO BE APPLIED PRIOR TO LAYING MULCH

G WOOD BARK MULCH
SCALE: 3" = 1'-0"

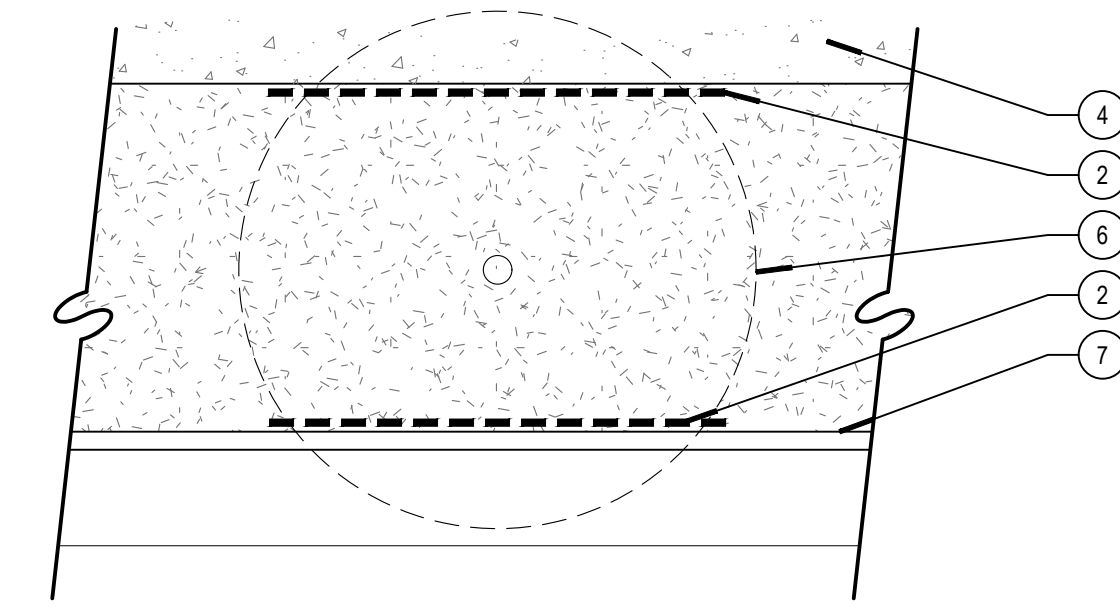


TYPICAL SECTION
N.T.S.

H ROOT BARRIER INSTALL
NOT TO SCALE



TYPICAL SECTION ADJACENT TO CURB
N.T.S.



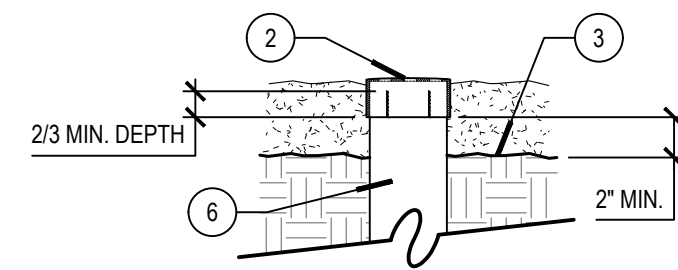
PLAN VIEW - ADJACENT TO CURB
N.T.S.

LEGEND

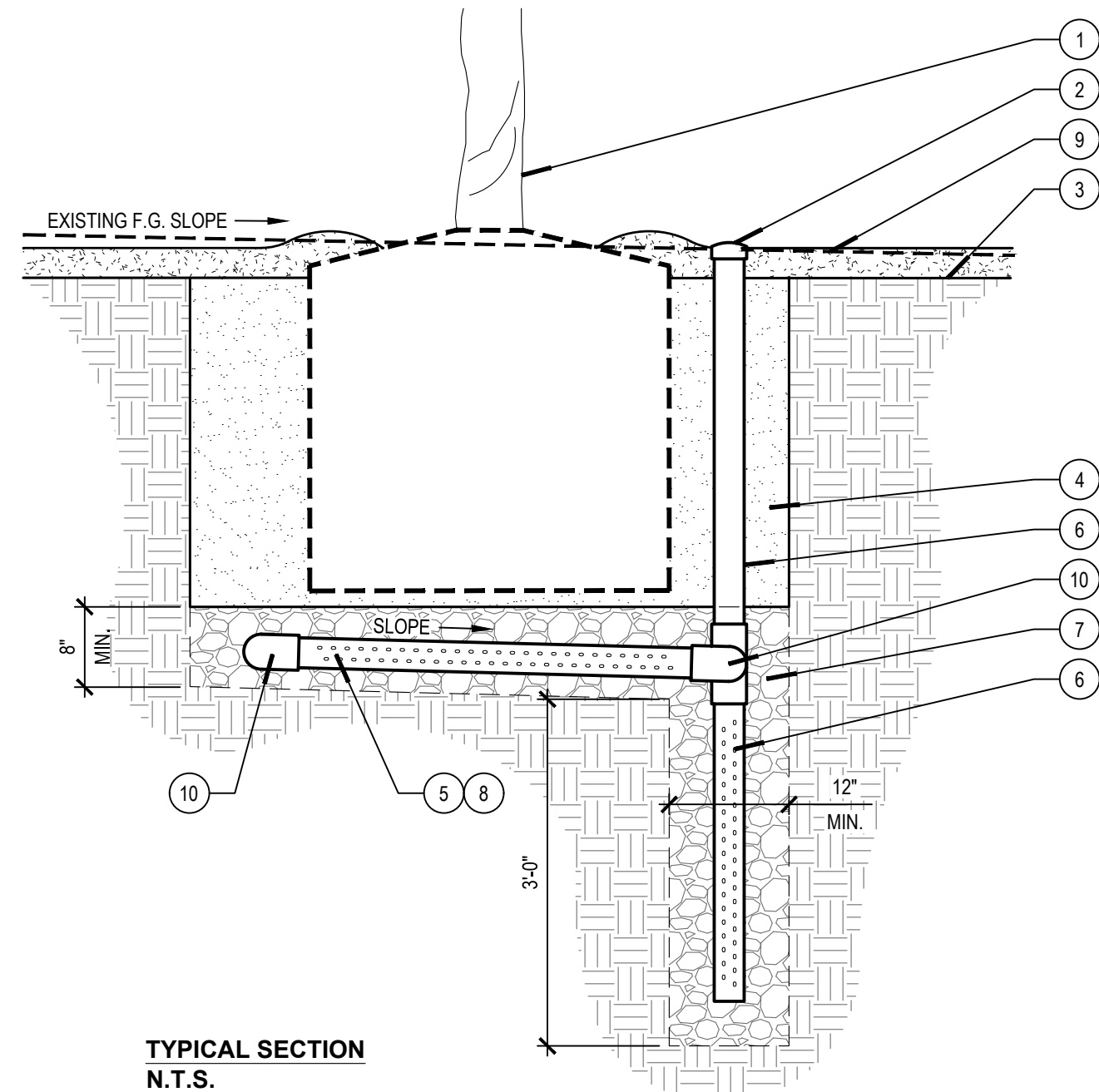
- 1 PROPOSED TREE/ROOTBALL WITH STAKES AND TIES; REFER TO TREE PLANTING DETAIL
- 2 ROOT BARRIER AS REQUIRED. 5' MIN CLEARANCE FROM TREE TRUNK TO ADJACENT HARDSCAPE. PROVIDE A 2'-0" MIN. DEEP HIGH DENSITY POLYETHYLENE BLACK LINEAR BARRIER.
- 3 FINISH GRADE WITH APPROVED MULCH. REFER TO NOTES
- 4 ADJACENT HARDSCAPE. REFER TO CONSTRUCTION PLANS FOR ADDITIONAL INFORMATION
- 5 NATIVE SOIL BACKFILLED FIRMLY ALONG ROOT BARRIER
- 6 TREE DRIP LINE
- 7 CONCRETE CURB AND GUTTER, WHERE APPLICABLE
- 8 ADJACENT UTILITY LINES, WHERE APPLICABLE

NOTES

- A. ROOT BARRIER TO BE AVAILABLE AT VIT PRODUCTS OR APPROVED EQUAL. PROVIDE MATERIAL SUBMITTALS FOR REVIEW APPROVALS.
- B. TOP OF BARRIER SHALL BE 1" ABOVE FINISHED GRADE. DO NOT ENCIRCLE ROOTBALL
- C. PROVIDE MATERIAL SUBMITTALS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- D. LENGTH OF ROOT BARRIER SHALL BE A MINIMUM OF 12' OR EQUAL TO THE DRIP LINE OF THE TREE AT MATURITY, WHICHEVER IS GREATER.
- E. ADDITIONAL LOCATIONS FOR ROOT BARRIERS PER THE DIRECTION OF THE LANDSCAPE ARCHITECT.

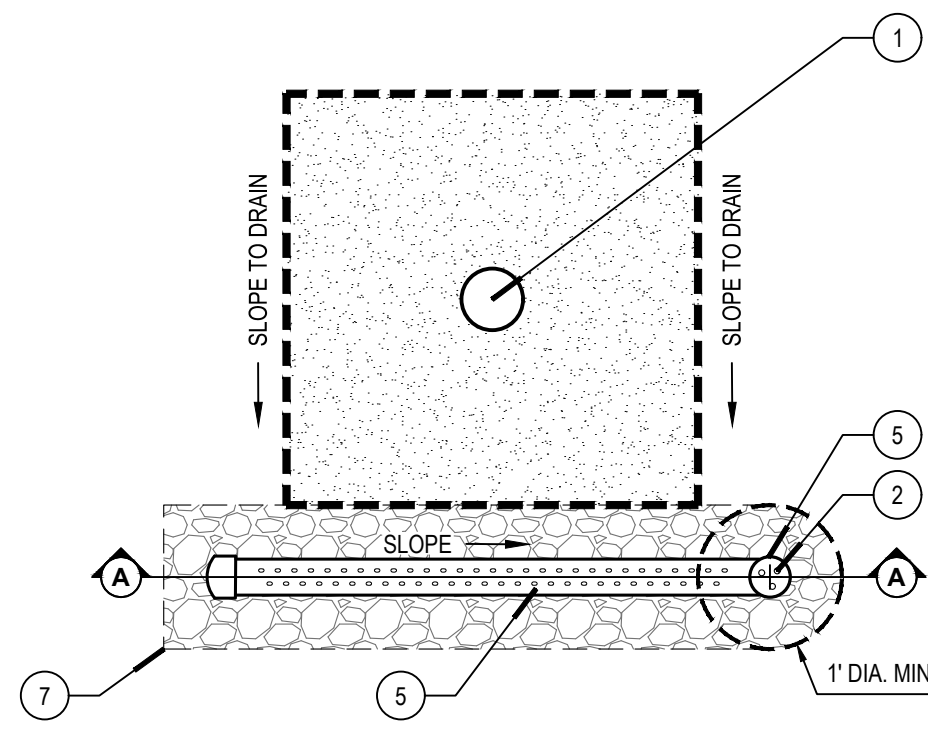


PIPE RISER/CAP ENLARGEMENT

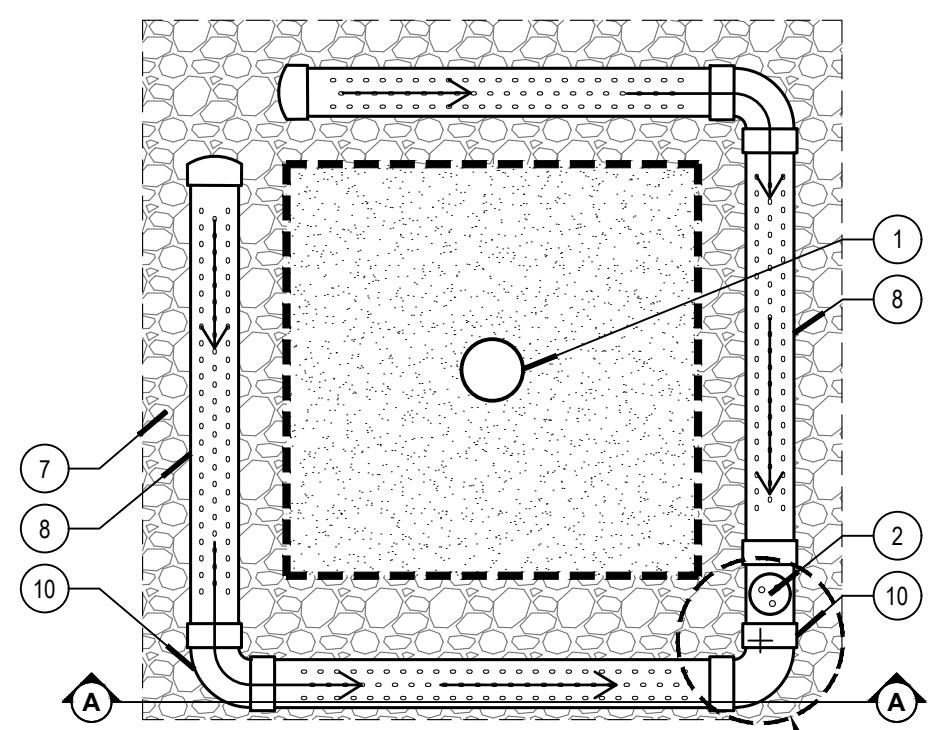


TYPICAL SECTION
N.T.S.

I TREE ROOTBALL DRAINAGE & AERATION
NOT TO SCALE



PIPE LAYOUT 36" BOX OR SMALLER
PLAN VIEW



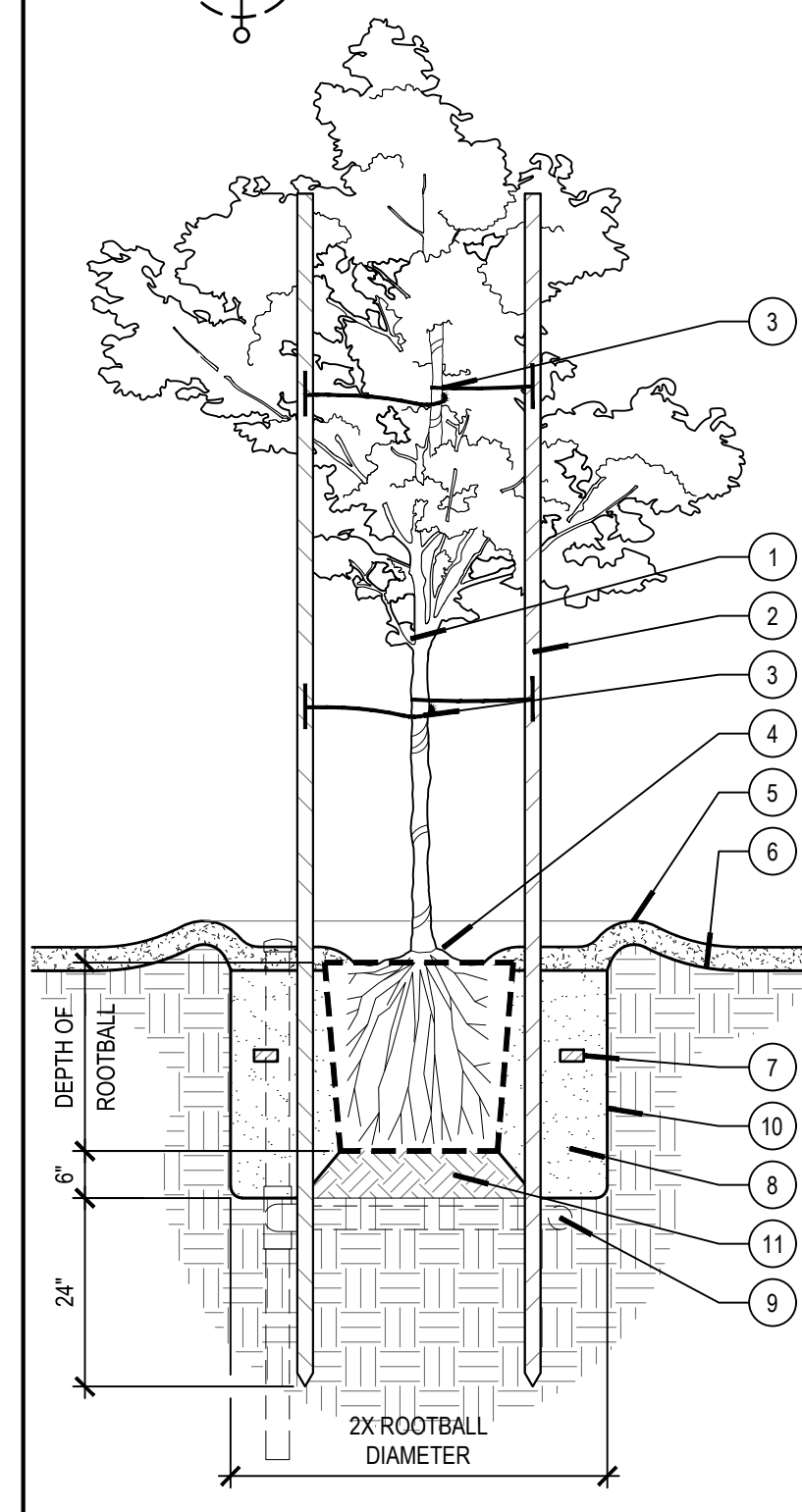
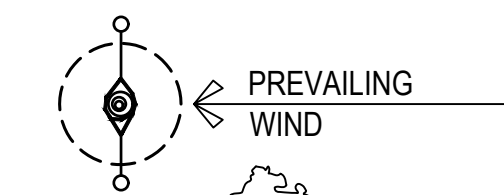
PIPE LAYOUT 48" BOX OR LARGER
N.T.S.

LEGEND

- 1 PROPOSED TREE.
- 2 PVC DRAIN GRATE OR END CAP. DRILL THREE (3) 1/2" HOLES INTO CAP AS SHOWN. INSTALL CAP 2" ABOVE FINISH GRADE. CUT BOTTOM OF CAP 2 3/8" DEPTH TO ALLOW FOR EASY REMOVAL.
- 3 FINISH GRADE.
- 4 AMENDED OR NATIVE BACKFILL PER SPECS.
- 5 3" DIAMETER PERFORATED PVC DRAIN AT LOW SIDE OF ROOTBALL PIT FOR 36" BOX TREE OR SMALLER. WRAP DRAIN LINE WITH NON WOVEN FILTER FABRIC SOCK/ WRAP. SLOPE DRAIN LINE AROUND ROOTBALL INTO AUGERED SUMP.
- 6 3" DIAMETER PVC VERTICAL RISER. TRANSITION TO SLOPED PERFORATED PVC SUMP DRAIN LINE BELOW AS SHOWN. INSTALL ON THE ROOTBALL'S LOWEST SIDE.
- 7 8"-12" DEEP (FROM BOTTOM OF ROOTBALL) SUMP PIT WITH A PERFORATED DRAIN LINE WRAPPED IN NON WOVEN FABRIC SOCK AND 3/4" CRUSHED, LOOSE GRAVEL FILL AS SHOWN.
- 8 3" DIAMETER (FOR 48" - 72" BOX SIZE AND PALMS) AND 4" DIAMETER (FOR 84" BOX AND LARGER) PERFORATED PVC DRAIN WRAPPED AROUND ROOTBALL. WRAP DRAIN LINE WITH NON WOVEN FILTER FABRIC SOCK/ WRAP. SLOPE DRAIN LINE AROUND ROOTBALL INTO VERTICAL RISER. AUGERED SUMP AS SHOWN.
- 9 INSTALL TRENCH AND PERFORATED PIPE / AUGERED SUMP AT LOW SIDE OF ROOTBALL.
- 10 4" SCH. 40 (SxSxSxS) PVC FITTING, CONNECT TO PVC ELBOW, PERFORATED DRAIN LINE AND VERTICAL RISER WITH CAP.

NOTES

- A. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL PERCOLATION RATE/ SOIL DRAINAGE REQUIREMENTS.
- B. REFER TO PLANTING PLAN FOR TREE LOCATIONS AND SEPARATE TREE PLANTING DETAIL ON THIS SHEET.



J TREE PLANTING
NOT TO SCALE

LEGEND

- 1 PROPOSED TREE
- 2 LODGE POLE PINE STAKES. ONE (1) 2" DIA. x 8' LONG STAKE FOR 5 GALLON. TWO (2) 2" DIA. x 10' LONG STAKES FOR 15 GALLON AND 24" BOX TREES. TWO (2) 3" DIA. x 12' LONG DIAMETER STAKES FOR 36" BOX AND LARGER.
- 3 TREE TIE. LOOP TREE TIE AROUND TREE BRANCH. TWIST TIE, THEN LOOP AROUND STAKE & DRIVE NAIL THROUGH THE TIE AT THE BACK OF STAKE. PROVIDE TWO (2) TIES FOR 5 GAL. & THREE (3) TIES 15 GAL. & LARGER TREES.
- 4 TREE ROOTBALL. INSTALL 5 GAL. & 15 GAL., 1" ABOVE GRADE. 24" BOX & LARGER, 3" ABOVE GRADE. TAPER ROOTBALL EDGE TO GRADE.
- 5 4" HIGH WATER RETENTION BASIN. FORM FROM PLANT PIT EXCAVATION. BASIN NO LARGER THAN ROOTBALL.
- 6 FINISHED GRADE WITH APPROVED MULCH. REFER TO NOTES.
- 7 PLANTING TABLETS; REFER TO NOTES.
- 8 PREPARED BACKFILL/NATIVE SOIL MIX; GRADUALLY ADD SOIL AND COMPACT LIGHTLY WHEN BACKFILLING. WATER HALFWAY AND ALLOW TO DRAIN PRIOR TO ADDING MORE SOIL.
- 9 SEE SEPARATE ROOTBALL DRAINAGE AND AERATION DETAIL
- 10 UNDISTURBED SOIL. SCARIFY SIDES OF PLANT PIT. BREAK UP HARD/COMPACTED SOIL AND LOOSEN SOIL.
- 11 6" ZONE OF OVER-EXCAVATED AND RECOMMENDED BACKFILL SOIL

NOTES

- A. ALL PLANT AREAS SHALL HAVE A 3" LAYER OF NITROGENIZED ORGANIC LANDSCAPE MULCH, TYP. PLACED IN WATER RETENTION BASIN.
- B. LIBERALLY DUST SIDES AND BOTTOM OF PITS W/ FINELY GROUND AGRICULTURAL GYPSUM.
- C. TREE TIES TO BE "CINCH TIE" BY V.I.T. PRODUCTS OR APPROVED EQUAL.
- D. FOR AGENCY MAINTAINED TREES, REFER TO THE GOVERNING AGENCY STANDARD DETAIL FOR TREE TIE REQUIREMENTS.
- E. REFER TO THE PROJECT HORTICULTURAL SOILS REPORT FOR ALL REQUIRED BACKFILL SOIL AMENDMENTS.
- F. PLANT TABS TO BE "SCOTT'S-AGRIFORM" OR APPROVED EQUAL AS RECOMMENDED BY THE MANUFACTURER PLANT SIZE TABLET CHART.
- G. REFER TO SINGLE STAKE TREE DETAIL FOR LOPHOSTEMON CONFERTUS, CUPRESSUS SEMPERVIRENS AND COLUMNAR TREES.
- H. MAINTAIN A MINIMUM 3'-0" RADIUS CLEAR EARTH AREA AROUND TREE TRUNK WHEN PLANTED IN TURF AREAS.

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KHA PROJECT: PROJ. 195582002
 DATE: 4/30/26
 SCALE: AS SHOWN
 DESIGNED BY: PF
 DRAWN BY: PF
 CHECKED BY: MD

**LANDSCAPE
DETAILS**

**ENTERPRISE BESS
PREPARED FOR
RAVEN VOLT**

2381 AUTO PARK WAY,
 ESCONDIDO, CA 92029

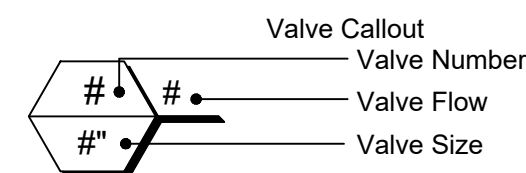


SHEET NUMBER
L1.3

NO. REVISIONS BY DATE

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
	HUNTER MP1000 PROS-06-PRS30-CV SHRUB ROTATOR, 6IN. POP-UP WITH CHECK VALVE, PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.	1	30
	HUNTER MP2000 PROS-06-PRS30-CV SHRUB ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC.	4	30
	HUNTER MP3000 PROS-06-PRS30-CV SHRUB ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. B=BLUE ADJ ARC 90-210, Y=YELLOW ADJ ARC 210-270, A=GRAY 360 ARC.	4	30
	HUNTER PROS-PRS30-06-CV-PCN FLOOD BUBBLER, 6IN. POP-UP, FACTORY INSTALLED DRAIN CHECK VALVE.	24	15
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
	DIG P55-100 1" DRIP ZONE ASSEMBLY WITH 24 VAC AND 30 PSI PRESET PRESSURE REGULATOR	1	
	HUNTER PLD-AVR PLD-AVR ALLOWS FOR AIR TO ESCAPE A RESIDENTIAL DRIP IRRIGATION SYSTEM TO PREVENT BLOCKAGE AND WATER HAMMERING. 1/2IN. MPT CONNECTION WITH 80 PSI MAXIMUM RATING.	1	
	HUNTER ECO-ID ECO-ID: 1/2IN. FPT CONNECTION WITH 12 PSI-70 PSI OPERATING PRESSURE. SPECIFY WITH HUNTER SJ SWING JOINT.	1	
	AREA TO RECEIVE DRIPLINE NETAFIM TLCV-06-18 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.6 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. 17MM.	1,555 SF	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
	DIG CORPORATION 160HE-100 1IN. PLASTIC REMOTE CONTROL VALVE TO OPERATE WITH THE LEIT SYSTEM	3	
	HUNTER HQ-44LRC QUICK COUPLER VALVE, YELLOW RUBBER LOCKING COVER, RED BRASS AND STAINLESS STEEL, WITH 1IN. NPT INLET, 2-PIECE BODY.	1	
	HAYWARD TRUE UNION SIZE TO MATCH MAINLINE DIAMETER	3	
	HUNTER IBV 1" 1IN., 1-1/2IN., 2IN., AND 3IN. BRASS ELECTRIC MASTER VALVE, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.	1	
	FEBCO 825Y 1" REDUCED PRESSURE BACKFLOW PREVENTER	1	
	DIG LEIT 400 AMBIENT LIGHT CONTROLLER (4-STATION) POLE-MOUNTED USE RKIT-8810S RELAY INTERFACE KIT FOR PUMP OPERATION	1	
	HUNTER MINI-CLIK RAIN SENSOR, MOUNT AS NOTED	1	
	HUNTER HFS-100 FLOW SENSOR FOR USE WITH ACC CONTROLLER, 1IN. SCHEDULE 40 SENSOR BODY, 24 VAC, 2 AMP.	1	
	POINT OF CONNECTION 2" EXISTING WATER METER	1	
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	857.1 LF	
	IRRIGATION MAINLINE: PVC SCHEDULE 40	286.1 LF	
	PIPE SLEEVE: PVC SCHEDULE 40	106.1 LF	



IRRIGATION NOTES

- THE SYSTEM HAS BEEN DESIGNED TO PROVIDE 100% COVERAGE. ANY CHANGES MADE IN THE LAYOUT DUE TO FIELD CONDITIONS SHALL BE IN ACCORDANCE WITH THESE STANDARDS. QUANTITIES IN SCHEDULE ARE ESTIMATED. PLAN SHALL TAKE PRECEDENCE.
- ALL IRRIGATION LINES AND VALVES ARE SHOWN DIAGRAMMATICALLY. ALL LINES AND VALVES TO BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE.
- CONTRACTOR TO FIELD LOCATE ALL PROPOSED IRRIGATION WATER MAIN LINE LOCATIONS. CONTACT LANDSCAPE ARCHITECT PRIOR TO START OF WORK IF DISCREPANCIES BETWEEN THIS PLAN AND EXISTING CONDITIONS ARE FOUND.
- LOCATE ALL VALVES INSIDE LANDSCAPE AREAS, ALLOWING ACCESS FOR MAINTENANCE PURPOSES, BUT HIDING THEM FROM PUBLIC VIEW WHENEVER POSSIBLE.
- ALL PRESSURE MAINLINES UNDER ASPHALT PAVEMENT SHALL BE PLACED WITHIN SLEEVES AS NOTED. WHERE ELECTRIC VALVE CONTROL LINES PASS THROUGH A SLEEVE WITH OTHER MAIN OR LATERAL LINES THEY SHALL BE CONTAINED WITHIN A SEPARATE, SMALLER CONDUIT.
- CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS OF THE FINAL INSTALLATION TO OWNER AT SUBSTANTIAL COMPLETION BEFORE RECEIVING FINAL PAYMENT.
- ALL SLEEVES UTILIZED BY THE IRRIGATION CONTRACTOR, WHETHER INSTALLED BY HIM OR NOT, SHALL BE LOCATED ON THE "AS-BUILT" DRAWINGS. THE DEPTH BELOW FINISH GRADE, TO THE NEAREST FOOT OF EACH END OF EACH SLEEVE SHALL BE NOTED AT EACH SLEEVE LOCATION ON THE "AS-BUILT" DRAWINGS. ALL SLEEVES SHALL BE SIZED TWO PIPE SIZES GREATER THAN PIPE IT CARRIES.
- ALL DRIP ZONES SHALL BE INSTALLED WITH A SELF-FLUSHING DISC FILTER, OR APPROVED EQUAL
- IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF HIS OPERATIONS ON-SITE. COPIES OF THE PERMITS SHALL BE SENT TO THE OWNER/GENERAL CONTRACTOR. WORK IN THE R.O.W. SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL AND/OR STATE HIGHWAY JURISDICTION.
- VERIFY CONTROLLER AND RAIN SENSOR LOCATION AND MAINLINE POINT OF CONNECTION AT PROJECT SITE WITH OWNER.
- ELECTRIC SERVICE TO CONTROLLER SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.
- ALL 24 VAC WIRING SHALL BE OF DIRECT BURIAL COPPER WIRE AS FOLLOWS:
 - CONTROL WIRES - #14
 - COMMON WIRES - #12
- INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON THE SITE.
- COORDINATE WITH PLANTING PLAN FOR PLANTER BED LOCATIONS AND TREE LOCATIONS.
- PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL COORDINATE WITH DEVELOPER FOR OPERATING PARAMETERS OF MASTER SYSTEM. THIS DESIGN REQUIRES 65 PSI TO OPERATE. IF THE MASTER SYSTEM CANNOT PROVIDE THESE PARAMETERS, CONTRACTOR SHALL MAKE ADJUSTMENTS TO THE DESIGN BY ADDING CONTROL VALVES, A BOOSTER PUMP, PRESSURE REDUCING VALVE, OR OTHER EQUIPMENT, AS NECESSARY. CONTRACTOR SHALL SUBMIT DESIGN REVISIONS TO OWNERS REPRESENTATIVE FOR APPROVAL PRIOR TO SUBMITTING BID.
- A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED PRIOR TO FINAL APPROVAL BY THE FIELD INSPECTOR. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
- A LAMINATED 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 SIGNER OF THE LANDSCAPE PLANS, THE SIGNER OF THE IRRIGATION PLANS, OR THE LICENSED LANDSCAPE CONTRACTOR FOR THE PROJECT.
- AN IRRIGATION AUDIT REPORT SHALL BE COMPLETED AT THE TIME OF FINAL INSPECTION.

I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AB-1881 AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.

I AM FAMILIAR WITH THE REQUIREMENT FOR LANDSCAPE AND IRRIGATION PLANS CONTAINED IN THE ESCONCIDO WATER EFFICIENT LANDSCAPE REGULATIONS. I HAVE PREPARED THIS PLAN IN COMPLIANCE WITH THOSE REGULATIONS AND THE LANDSCAPE DESIGN MANUAL. I CERTIFY THAT THE PLAN IMPLEMENTS THOSE REGULATIONS TO PROVIDE EFFICIENT USE OF WATER.

Luke D. Davies
LUKE D. DAVIES, LLA 7145

MAINTENANCE:

- LOW-FLOW BUBBLER ZONES WILL BE DRAINED IN COLD WEATHER SITUATIONS USING THE MANUAL FLUSH VALVES.
- FILTER CLEANING AND REPLACEMENT ON A REGULAR BASIS.
- CHECKING FOR LEAKS AT EACH VALVE AND INSPECTION OF EACH ZONE ON A MONTHLY BASIS.
- HAVE THE CONTRACTOR WALK EACH SECTION OF LOW-FLOW BUBBLERS TO CHECK FOR CLOGGING OR PROBLEMS.
- IF AN ON-SITE WEATHER STATION IS SPECIFIED, IT NEEDS TO BE CALIBRATED REGULARLY TO PROVIDE ACCURATE DATA. BECAUSE OF THE COST OF MAINTAINING AN ON-SITE WEATHER STATION, IT IS RECOMMENDED TO USE A CONTROL SYSTEM WHICH UTILIZES A NETWORK OF ET DATA THAT CAN ASSURE ACCURACY TO WITHIN ONE KILOMETER OF THE SITE.

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC	PRECIP
1	DIG P55-100	1"	AREA FOR DRIPLINE	6.91	21.9	37.1	0.43 in/h
2	DIG CORPORATION 160HE-100	1"	BUBBLER	6	17.8	32.7	1.71 in/h
3	DIG CORPORATION 160HE-100	1"	SHRUB ROTARY	8.82	34.8	50.6	0.55 in/h
4	DIG CORPORATION 160HE-100	1"	BUBBLER	6	18.6	33.3	1.75 in/h

IRRIGATION MAINTENANCE SCHEDULE:

THE IRRIGATION MAINTENANCE SCHEDULE TASKS LISTED BELOW ARE INTENDED AS MINIMUM STANDARDS AND MORE FREQUENT ATTENTION MAY BE REQUIRED DEPENDING ON THE PARTICULAR SITE CONDITIONS. MAINTENANCE SHALL BE DONE TO ENSURE WATER EFFICIENCY. REPAIR OF IRRIGATION EQUIPMENT SHALL BE DONE WITH THE ORIGINALLY SPECIFIED MATERIALS OR APPROVED EQUIVALENTS.

FREQUENCY - QUARTERLY

TASK - CONTROLLER CABINET : OPEN CABINET AND CLEAN OUT DEBRIS AND REPLACE BATTERY AS NECESSARY. CHECK WIRING AND REPAIR AS NEEDED AND CHECK CLOCK AND RESET IF NECESSARY.

FREQUENCY - MONTHLY

TASK - IRRIGATION SCHEDULE: ADJUST SCHEDULE FOR SEASONAL VARIATIONS AND OTHER CONDITIONS WHICH MAY AFFECT THE AMOUNT OF WATER NEEDED TO MAINTAIN PLANT HEALTH. ADJUST AS NECESSARY.

FREQUENCY - QUARTERLY

TASK - POC: VISUALLY INSPECT COMPONENTS FOR LEAKS, PRESSURE SETTINGS, SETTLEMENT OR OTHER DAMAGE AFFECTING THE OPERATION OF A COMPONENT. REPAIR AS NEEDED.

FREQUENCY - QUARTERLY

TASK - REMOTE CONTROL VALVES : ISOLATION VALVES AND QUICK COUPLER VALVES: VISUALLY INSPECT FOR LEAKS, SETTLEMENTS, WIRE CONNECTIONS AND PRESSURE SETTINGS. REPAIR AS NEEDED.

FREQUENCY - QUARTERLY

TASK - MAINLINE AND LATERALS: VISUALLY INSPECT FOR LEAKS OR SETTLEMENTS OF TRENCH.

FREQUENCY - WEEKLY

TASK - FILTERS AND STRAINERS - VISUALLY CHECK FOR ANY BROKEN MALIGNED OR CLOGGED HEADS, HEADS WITH INCORRECT ARC, INADEQUATE COVERAGE OR OVERSPRAY AND LOW HEAD DRAINAGE. REPAIR AS NEEDED.

FREQUENCY - MONTHLY

TASK - FILTERS AND STRAINERS: VISUALLY CHECK FOR LEAKS, BROKEN FITTINGS. CLEAN AND FLUSH SCREENS.

STATE OF CALIFORNIA ESTIMATED WATER USE						
TOTAL WATER USE IS CALCULATED BY SUMMING THE AMOUNT OF WATER ESTIMATED FOR EACH HYDROZONE. WATER USE FOR EACH HYDROZONE IS ESTIMATED WITH THE FOLLOWING FORMULA:						
$EWU \text{ (HYDROZONE)} = ET0 \text{ (HYDROZONE)} \times PF \times HA \times .62 / (IE)$						
ETO	PF	HA	IE	CONVERSION FACTOR	EWU GAL/YEAR	
54.1	0.3	1555	.81	.62	19318	
HYDROZONE B (BUBBLER)						
54.1	0.3	384	.75	.62	5152	
HYDROZONE C (ROTATOR)						
54.1	0.3	1676	.75	.62	22487	
ESTIMATED TOTAL WATER USE (ETWU)					24470	
MAWA (MAXIMUM APPLIED WATER ALLOWANCE)						
54.1	45	1939	.62	29267		
ESTIMATED ANNUAL WATER USE (% OF MAWA)					84	

WATERING TIME ADJUSTMENT (HYDROZONE 'A' LOW DRIP)												
MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MAXIMUM MINUTES PER START TIME	16	16	16	16	16	16	16	16	16	16	16	16
START TIMES PER WEEK	3	4	6	7	8	9	10	10	7	6	3	3
TOTAL MINUTES PER WEEK	48	64	96	112	128	144	160	160	112	96	48	48

WATERING TIME ADJUSTMENT (HYDROZONE 'B' MOD WATER BUBBLER)												
MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MAXIMUM MINUTES PER START TIME	1	1	1	1	1	1	1	1	1	1	1	1
START TIMES PER WEEK	4	6	8	11	12	14	15	15	11	8	5	4
TOTAL MINUTES PER WEEK	4	6	8	11	12	14	15	15	11	8	5	4

WATERING TIME ADJUSTMENT (HYDROZONE 'C' MOD WATER ROTATOR)												
MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MAXIMUM MINUTES PER START TIME	4	4	4	4	4	4	4	4	4	4	4	4
START TIMES PER WEEK	3	3	5	6	7	8	9	9	6	5	3	3
TOTAL MINUTES PER WEEK	12	12	20	24	28	32	36	36	24	20	12	12

NOTES:

- WATERING REQUIREMENTS ARE APPROXIMATE PER SEASON AND SHOULD BE ADJUSTED TO REFLECT SEASONAL FLUCTUATIONS IN AVERAGE PRECIPITATION.
- "IRRIGATION SCHEDULING INFORMATION" IS TO BE USED FOR WATERING TIME/DURATION/FREQUENCY FOR THE FIRST THREE YEARS, HOWEVER THE SYSTEM SHOULD BE MONITORED FREQUENTLY AND ADJUSTED TO MEET THE NEEDS OF THE PLANT MATERIAL AS MATURE ROOT SYSTEMS DEVELOP.
- ALL PLANTS TO RECEIVE APPROPRIATE ADDITIONAL 15% HIGHER WATERING DURING INSTALLATION PERIOD IN ORDER TO ESTABLISH HEALTHY AND DEEP ROOT GROWTH.

CRITICAL ANALYSIS

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P.O.C. NUMBER: 01
Water Source Information: Existing Water Meter

FLOW AVAILABLE
Water Meter Size: 1"
Flow Available: 19.62 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 65 PSI
Elevation Change: 5.00 ft
Service Line Size: 1"
Length of Service Line: 20 ft
Pressure Available: 61 PSI

DESIGN ANALYSIS
Maximum Station Flow: 8.82 GPM
Flow Available at POC: 19.62 GPM
Residual Flow Available: 10.8 GPM

Critical Station: 3
Design Pressure: 30 PSI
Friction Loss: 1.7 PSI
Fittings Loss: 0.17 PSI
Elevation Loss: 0 PSI
Loss through Valve: 2.88 PSI
Pressure Req. at Critical Station: 34.8 PSI
Loss for Fittings: 0.06 PSI
Loss for Main Line: 0.63 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 12.3 PSI
Loss for Master Valve: 2.88 PSI
Critical Station Pressure at POC: 50.6 PSI
Pressure Available: 61 PSI
Residual Pressure Available: 10.4 PSI

NO.	REVISIONS	DATE	BY

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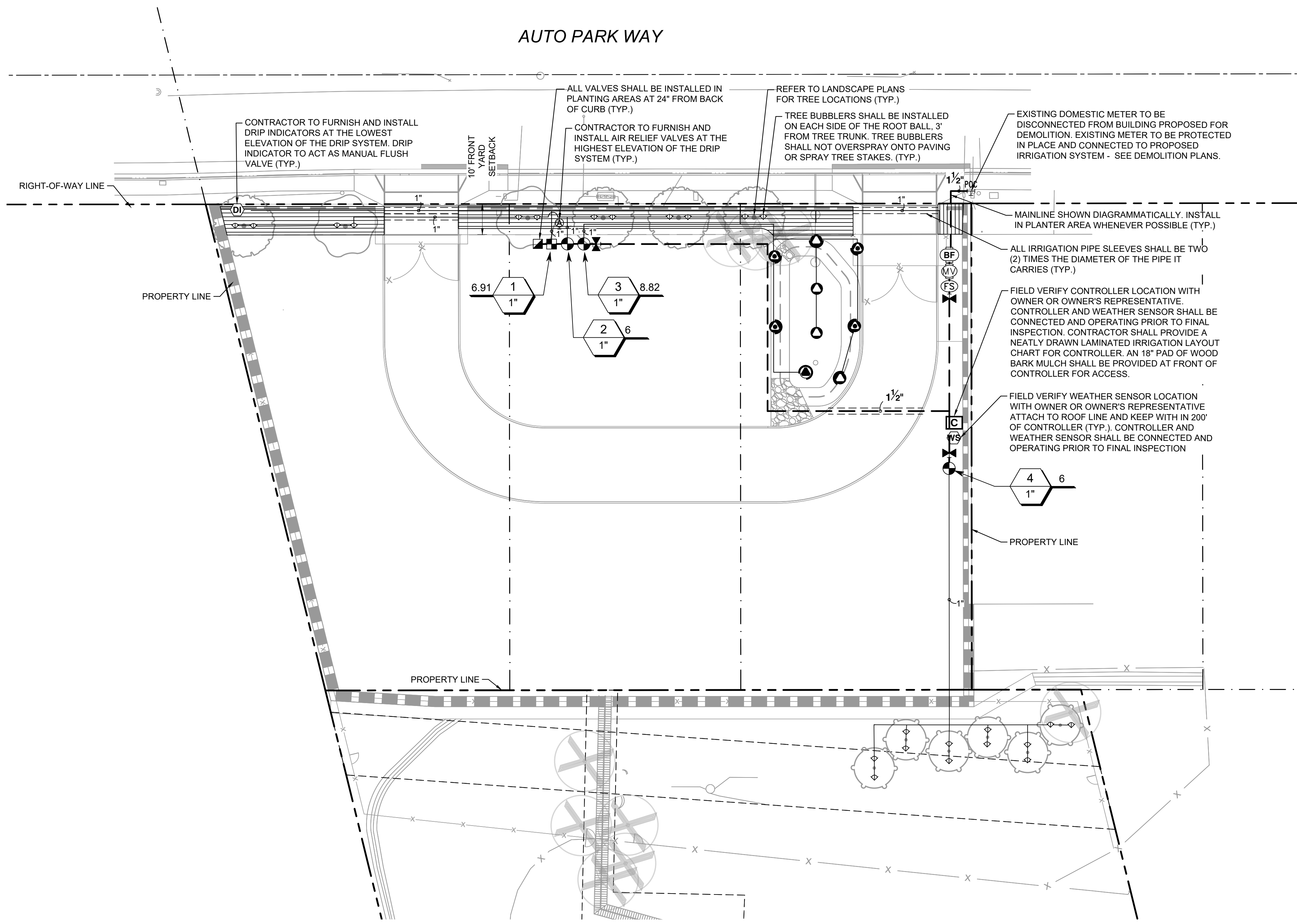
IRRIGATION NOTES

ENTERPRISE BESS
PREPARED FOR
RAVEN VOLT
2361 AUTO PARK WAY,
ESCONDIDO, CA 92029



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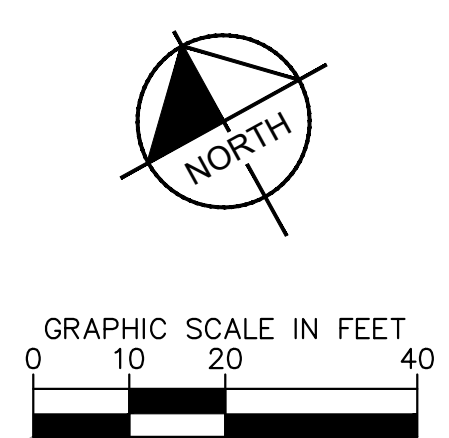
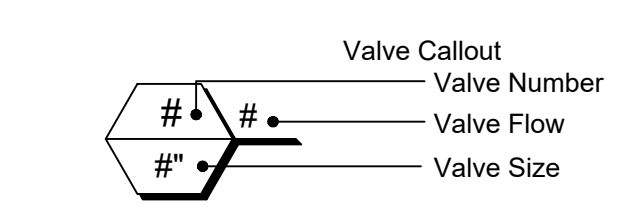


IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
1000	HUNTER MP1000 PROS-06-PRS30-CV SHRUB ROTATOR, 6IN. POP-UP WITH CHECK VALVE, PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.	1	30
2000	HUNTER MP2000 PROS-06-PRS30-CV SHRUB ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC.	4	30
3000	HUNTER MP3000 PROS-06-PRS30-CV SHRUB ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. B=BLUE ADJ ARC 90-210, Y=YELLOW ADJ ARC 210-270, A=GRAY 360 ARC.	4	30
25 50 10 20	HUNTER PROS-PRS30-06-CV-PCN FLOOD BUBBLER, 6IN. POP-UP, FACTORY INSTALLED DRAIN CHECK VALVE.	24	15

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
■	DIG P55-100 1" DRIP ZONE ASSEMBLY WITH 24 VAC AND 30 PSI PRESET PRESSURE REGULATOR	1
⊕	HUNTER PLD-AVR PLD-AVR ALLOWS FOR AIR TO ESCAPE A RESIDENTIAL DRIP IRRIGATION SYSTEM TO PREVENT BLOCKAGE AND WATER HAMMERING. 1/2IN. MPT CONNECTION WITH 80 PSI MAXIMUM RATING.	1
⊙	HUNTER ECO-ID ECO-ID: 1/2IN. FPT CONNECTION WITH 12 PSI-70 PSI OPERATING PRESSURE. SPECIFY WITH HUNTER SJ SWING JOINT.	1
▨	AREA TO RECEIVE DRIPLINE NETA-FIM TLV-06-18 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.6 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. 17MM.	1,555 SF

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
⊙	DIG CORPORATION 160HE-100 1IN. PLASTIC REMOTE CONTROL VALVE TO OPERATE WITH THE LEIT SYSTEM	3
⊕	HUNTER HQ-44LRC QUICK COUPLER VALVE, YELLOW RUBBER LOCKING COVER, RED BRASS AND STAINLESS STEEL, WITH 1IN. NPT INLET, 2-PIECE BODY.	1
⊕	HAYWARD TRUE UNION SIZE TO MATCH MAINLINE DIAMETER	3
MV	HUNTER IBV 1" 1IN., 1-1/2IN., 2IN., AND 3IN. BRASS ELECTRIC MASTER VALVE, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.	1
BF	FEBCO 825Y 1" REDUCED PRESSURE BACKFLOW PREVENTER	1
C	DIG LEIT 400 AMBIENT LIGHT CONTROLLER (4-STATION) POLE-MOUNTED 1 USE RKT-8810S RELAY INTERFACE KIT FOR PUMP OPERATION	1
WS	HUNTER MINI-CLIK RAIN SENSOR, MOUNT AS NOTED	1
FS	HUNTER HFS-100 FLOW SENSOR FOR USE WITH ACC CONTROLLER, 1IN. SCHEDULE 40 SENSOR BODY, 24 VAC, 2 AMP.	1
POC	POINT OF CONNECTION 2" EXISTING WATER METER	1
---	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	857.1 LF
---	IRRIGATION MAINLINE: PVC SCHEDULE 40	286.1 LF
---	PIPE SLEEVE: PVC SCHEDULE 40	106.1 LF



NO.	REVISIONS	DATE	BY

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KHA PROJECT
 PROJ: 195582002

DATE
 4/30/26

SCALE: AS SHOWN

DESIGNED BY: PF

DRAWN BY: PF

CHECKED BY: MD

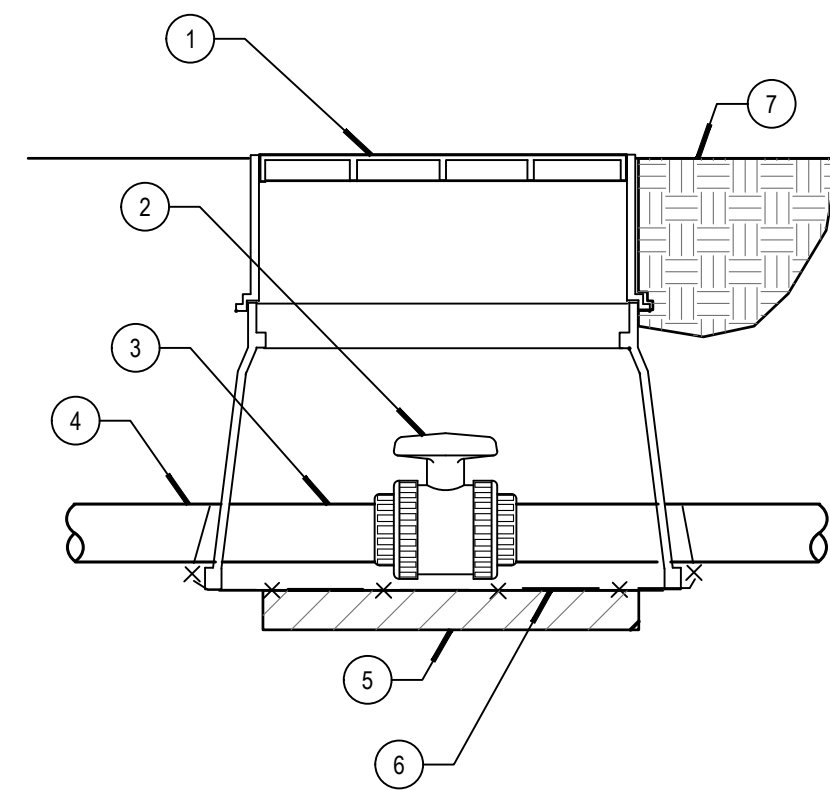
IRRIGATION PLAN

ENTERPRISE BESS
 PREPARED FOR
RAVEN VOLT
 2381 AUTO PARK WAY,
 ESCONDIDO, CA 92029

SHEET NUMBER
L2.1



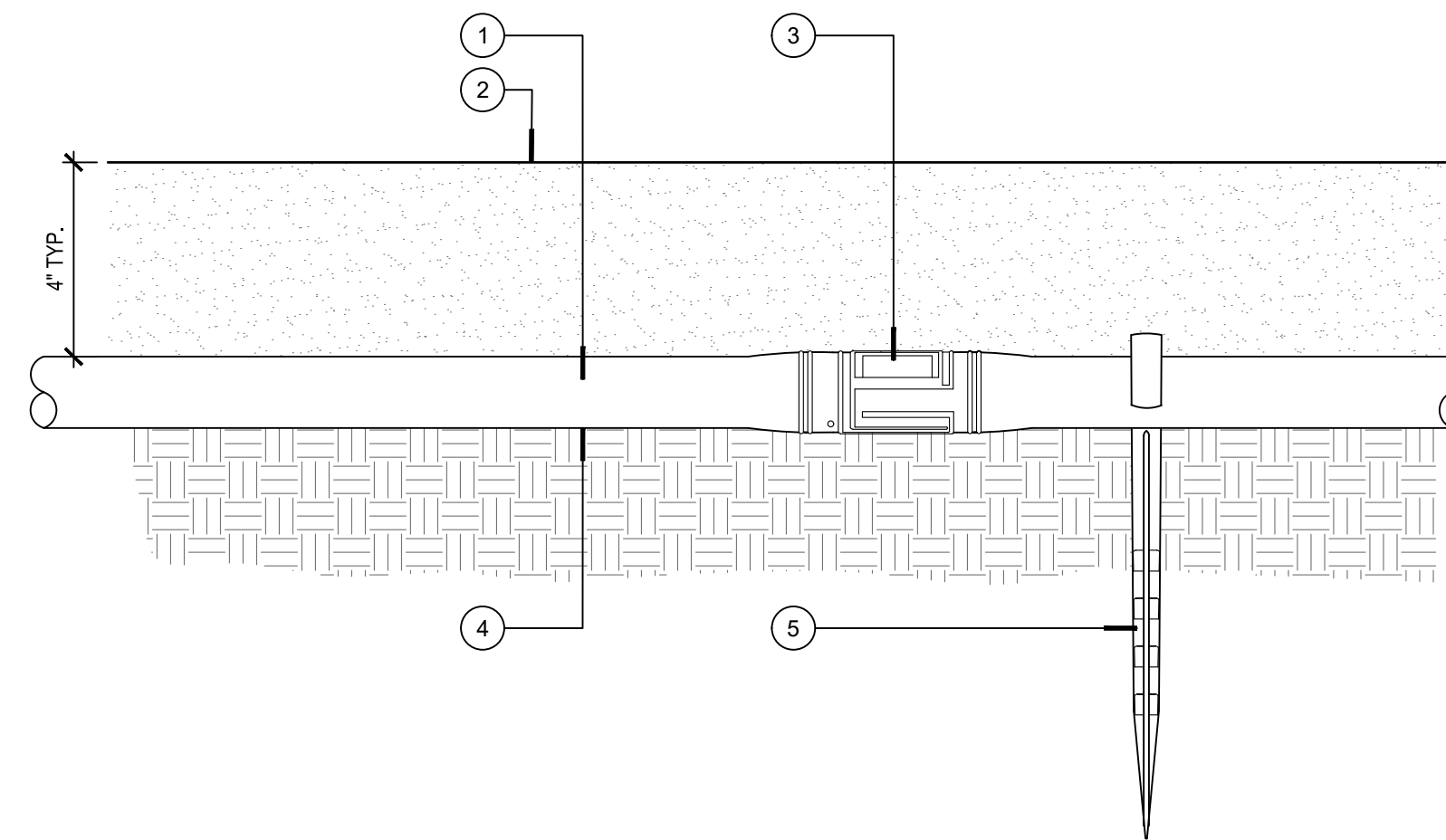
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LEGEND

- 1 10"x15" RECTANGULAR BOX WITH 6" EXTENSION
- 2 ISOLATION BALL VALVE AS SPECIFIED, SAME SIZE AS MAIN LINE.
- 3 SCHEDULE 80 THREADED NIPPLE AS REQUIRED
- 4 ADAPTER PVC MAIN LINE
- 5 TWO 6X2X16 CONCRETE BLOCK CAPS, ONE ON EACH SIDE OF BOX.
- 6 1/2" WIRE CLOTH GOPHER SCREEN, WRAP UP SIDES
- 7 SET BOX FLUSH TO GRADE

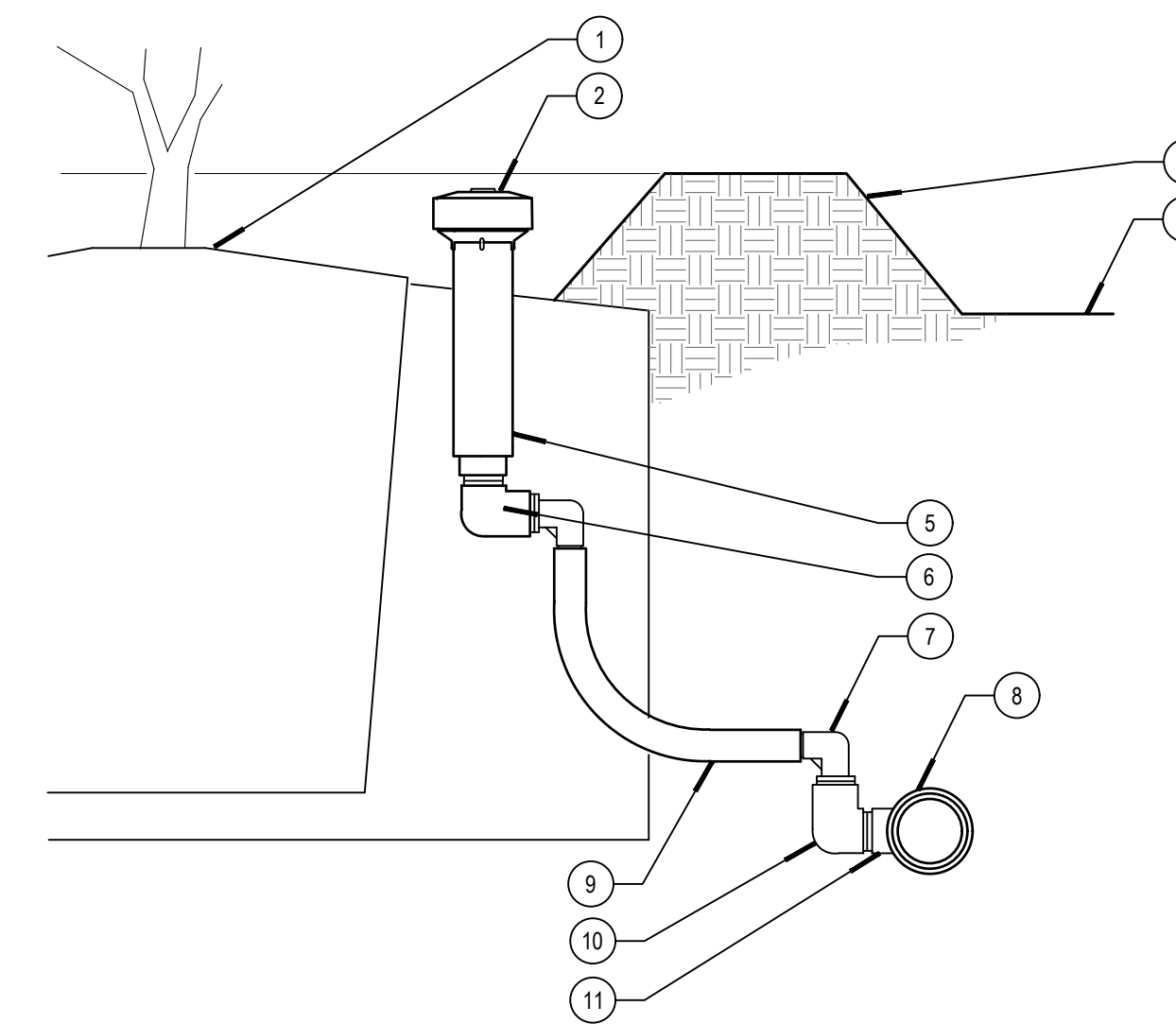
A BALL VALVE
SCALE: 1" = 1" NTS



LEGEND

- 1 LANDSCAPE DRIPLINE PER IRRIGATION LEGEND
- 2 FINISH GRADE
- 3 PRESSURE-COMPENSATING IN-LINE EMITTER TUBING PER IRRIGATION LEGEND
- 4 SUBGRADE
- 5 TIE DOWN STAKE PER MANUFACTURER'S RECOMMENDATION

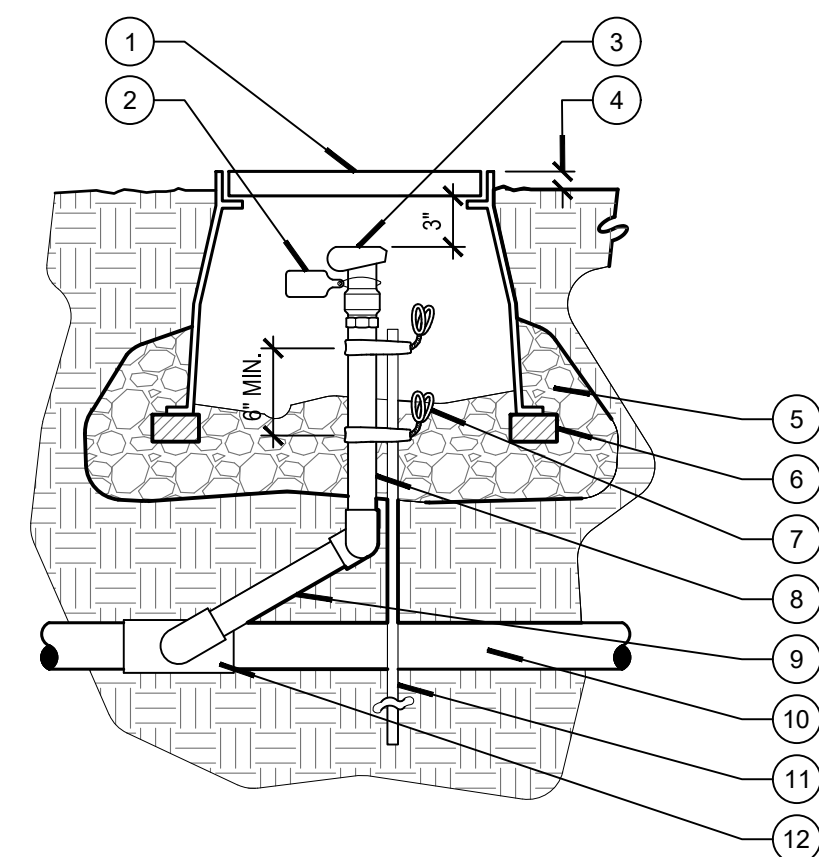
B BELOW GRADE DRIP TUBING
SCALE: 1" = 1'-0"



LEGEND

- 1 PLANT ROOTBALL, SEE PLANTING DETAIL
- 2 SET HEAD 2" ABOVE GRADE AND INSIDE WATER WELL
- 3 WATER WELL, SEE PLANTING DETAIL
- 4 FINISHED GRADE
- 5 POPUP AS SPECIFIED
- 6 1/2" MARLEX STREET ELL.
- 7 BARB ELL X MIPT
- 8 LATERAL LINES
- 9 1/2" POLYETHYLENE FLEXIBLE TUBING, LENGTH AS REQUIRED
- 10 1/2" MARLEX STREET ELL
- 11 PVC TEE (SX/SX) OR ELL

C POPUP BUBBLER AT PLANT PIT
SCALE: 1" = 1" NTS



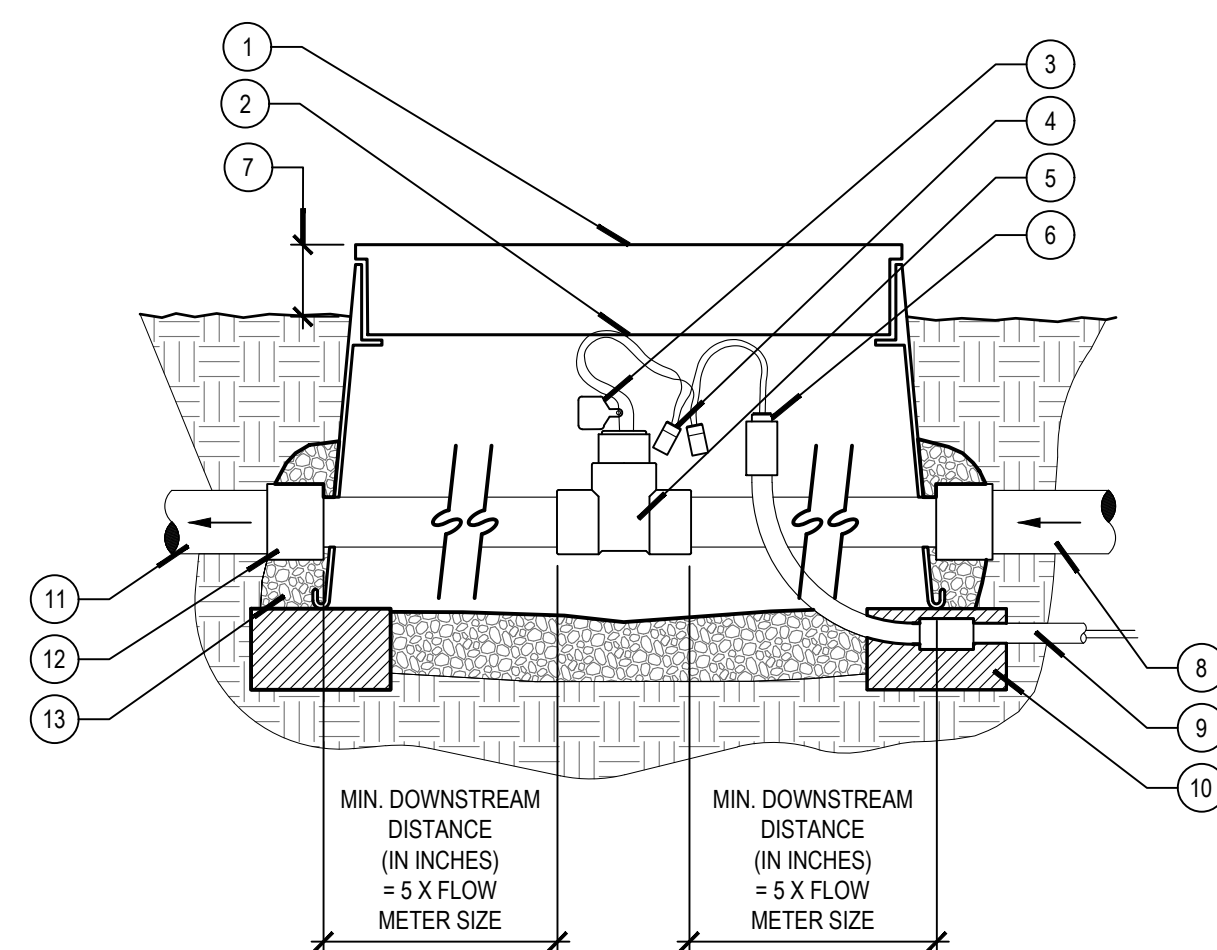
LEGEND

- 1 GREEN PLASTIC, 10" ROUND VALVE BOX WITH BOLT DOWN COVER, HEAT BRANDED "QCV"
- 2 ID TAG
- 3 QUICK COUPLER VALVE - REFER TO IRRIGATION LEGEND
- 4 FINISH GRADE:
- 1" BELOW BOX LID IN TURF AREAS
- 2" BELOW BOX LID IN SHRUB / GC AREAS
- 5 ONE (1) CU. FT. (MIN.) OF 3/4" CRUSHED ROCK AT BASE OF VALVE BOX
- 6 SUPPORT - COMMON RED BRICK (4 TOTAL)
- 7 V.I.T. STAINLESS STEEL TIES - TYPICAL
- 8 SCH. 80 PVC NIPPLE - LENGTH AS REQUIRED
- 9 1" DIAMETER SCH. 80 PVC SWING JOINT - PREASSEMBLED BY SPEARS
- 10 PVC MAINLINE
- 11 1/2" DIA. X 24" LENGTH GALVANIZED PIPE STAKE
- 12 SCH. 80 PVC TEE FITTING

NOTES

- A. ALL THREADS SHALL BE WRAPPED WITH TEFLON TAPE
- B. 12" MIN. CLEAR SPACE SHALL BE MAINTAINED BETWEEN THE QUICK COUPLER VALVE BOX AND ANY ADJACENT HARDSCAPE - WHERE OCCURS

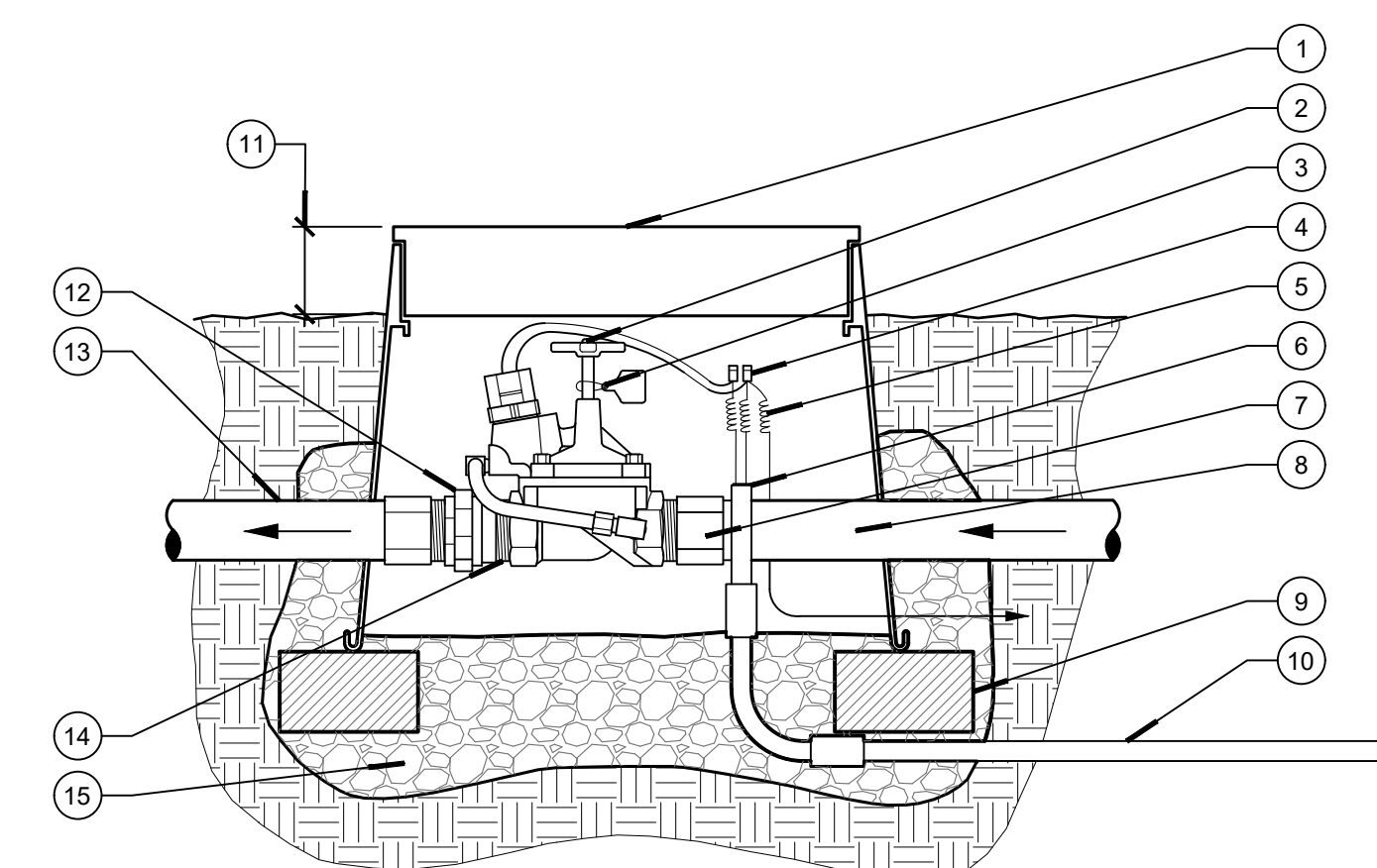
D QUICK COUPLER
SCALE: 3/4" = 1'-0"



LEGEND

- 1 GREEN PLASTIC RECTANGULAR VALVE BOX WITH BOLT DOWN COVER
- 2 REFER TO CONSTRUCTION NOTES FOR TYPE OF CABLE FROM FLOW SENSOR TO CONTROLLER
- 3 ID TAG
- 4 WATERPROOF CONNECTOR - REFER TO IRRIGATION SPECIFICATIONS
- 5 FLOW SENSOR
- 6 CONDUIT BUSHING
- 7 FINISH GRADE
- 1" BELOW BOX LID IN TURF AREAS
- 2" BELOW BOX LID IN SHRUB / GC AREAS
- 8 IRRIGATION MAINLINE FROM MASTER VALVE
- 9 ELECTRICAL CONDUIT AND SWEEP ELBOW BACK TO CONTROLLER
- 10 SUPPORT - COMMON RED BRICK (4 TOTAL)
- 11 MAINLINE TO REMOTE CONTROL VALVES
- 12 SCH. 40 PVC COUPLER
- 13 3/4" CRUSHED ROCK, (2) CUBIC FEET MINIMUM

E FLOW SENSOR
SCALE: 3" = 1'-0"



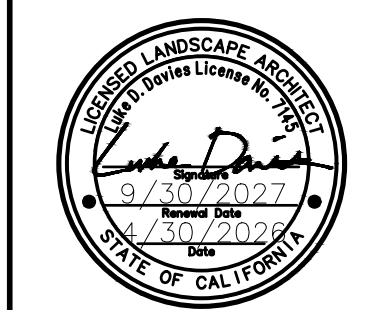
LEGEND

- 1 GREEN PLASTIC, RECTANGULAR VALVE BOX WITH BOLT DOWN COVER
- 2 MASTER VALVE PER LEGEND
- 3 WATER ID TAG
- 4 WATERPROOF CONNECTOR - REFER TO IRRIGATION SPECIFICATIONS
- 5 CONTROL AND MASTER VALVE WIRES WITH EXPANSION LOOP
- 6 CONDUIT BUSHING
- 7 SCH. 80 PVC MALE ADAPTER - TYPICAL
- 8 PVC IRRIGATION MAINLINE FROM BACKFLOW PREVENTER
- 9 SUPPORT - COMMON RED BRICK (4 TOTAL)
- 10 ELECTRICAL CONDUIT BACK TO CONTROLLER AND SWEEP ELBOW
- 11 FINISH GRADE:
1" IN TURF AREAS / 2" IN SHRUB AREAS
- 12 SPEARS SCH. 80 PVC UNION (SR-FIPT X SR-FIPT)
- 13 PVC IRRIGATION MAINLINE TO FLOW SENSOR PER PLAN
- 14 SCH. 80 PVC NIPPLE
- 15 3/4" CRUSHED ROCK - (4) CUBIC FEET, MIN.

F MASTER VALVE
SCALE: 3" = 1'-0"

NO.	REVISIONS	DATE	BY

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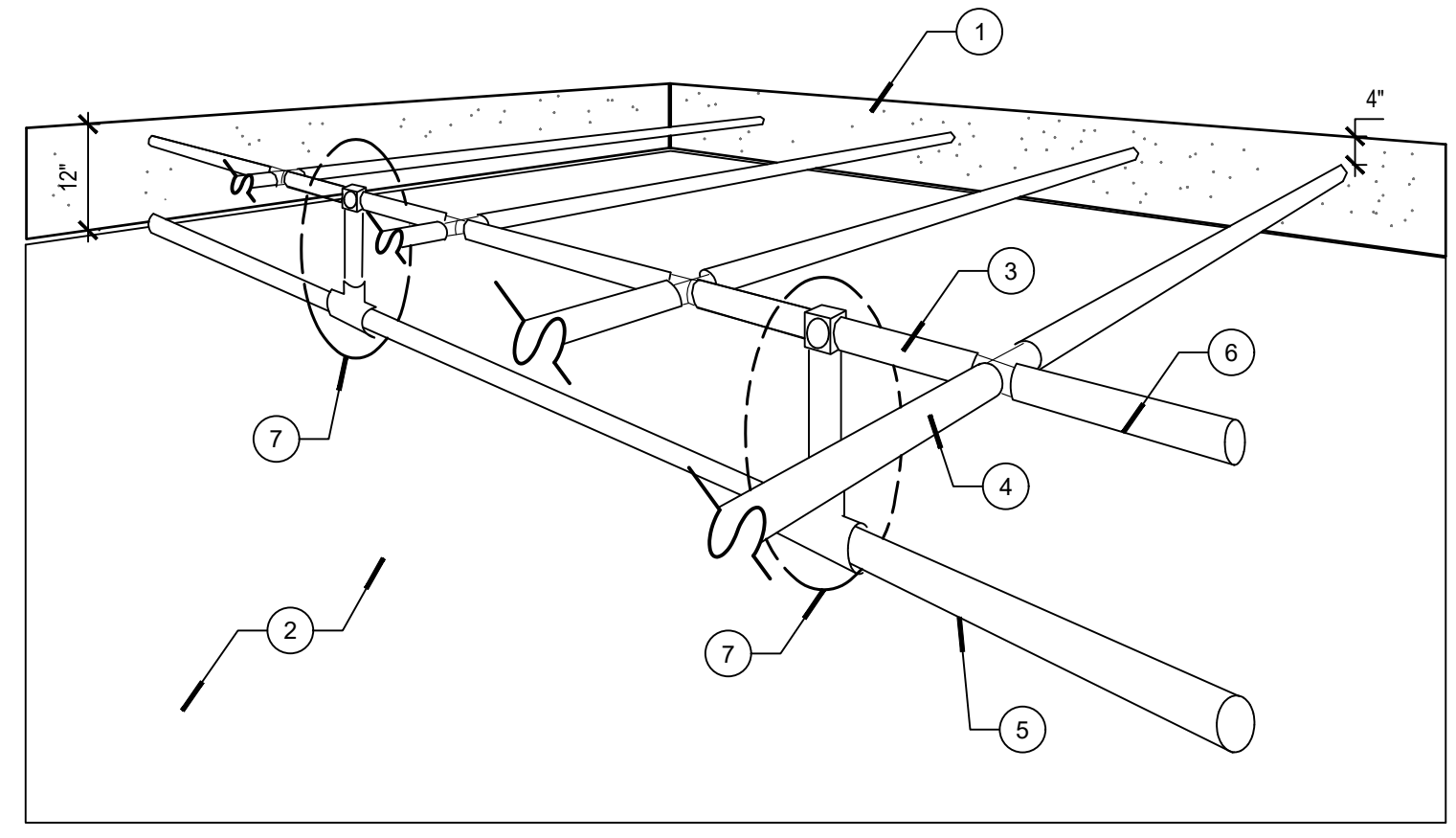
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 DATE: 4/30/26
 SCALE: AS SHOWN
 DESIGNED BY: PF
 DRAWN BY: PF
 CHECKED BY: MD

IRRIGATION DETAILS

ENTERPRISE BESS
 PREPARED FOR
RAVEN VOLT
 2381 AUTO PARK WAY,
 ESCONDIDO, CA 92029

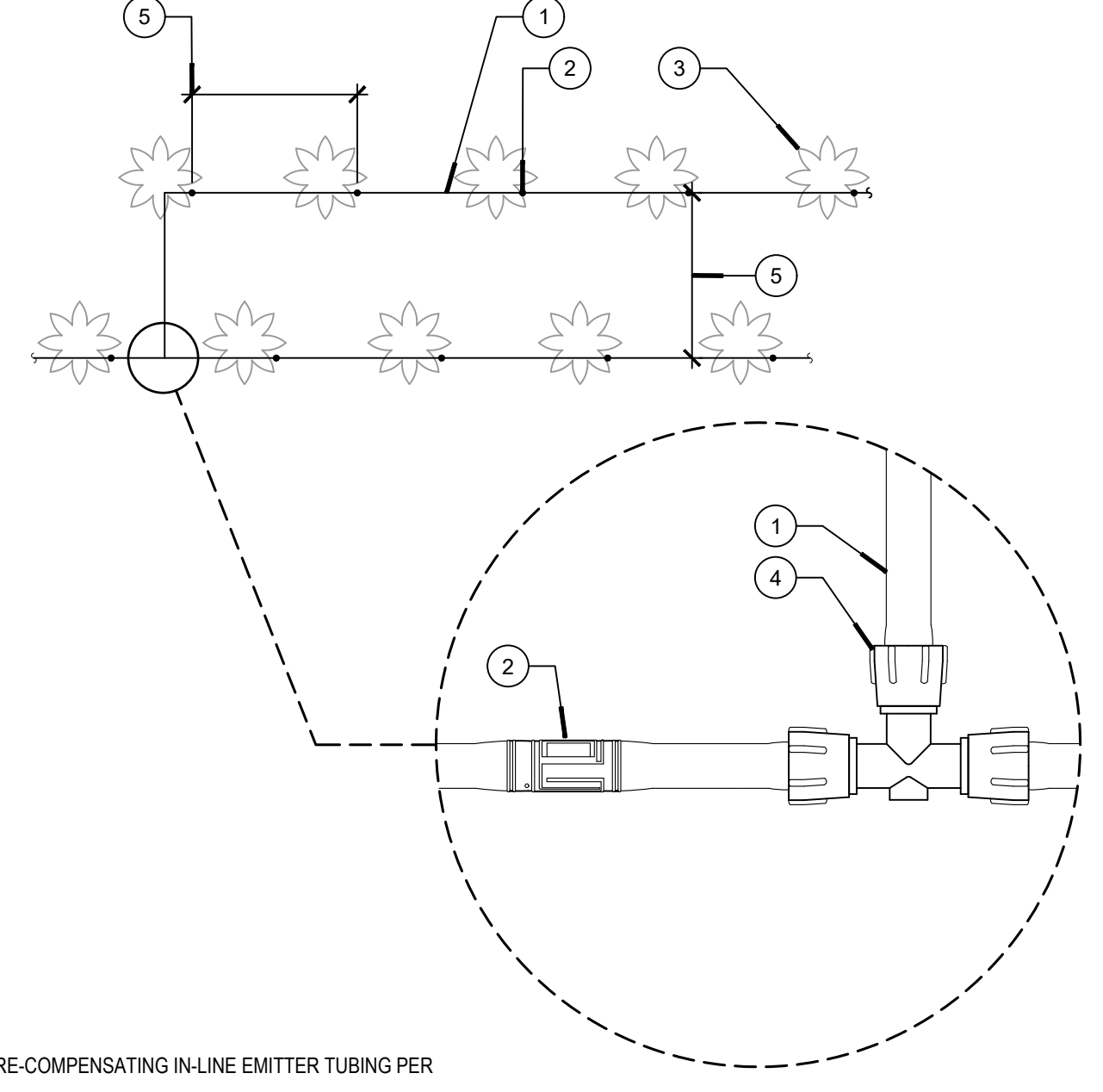


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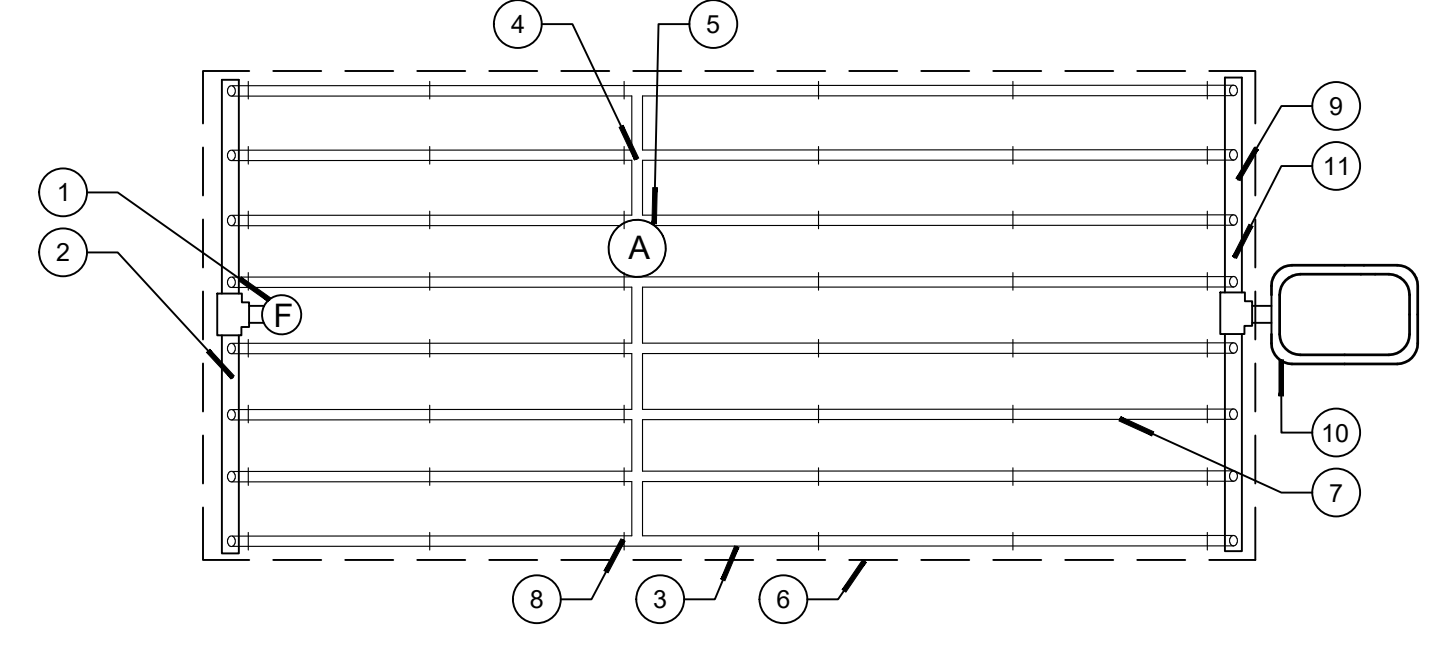
- LEGEND**
- 1 FINISH GRADE
 - 1 COMPACT SUBGRADE 95%
 - 1 LANDSCAPE DRIPLINE WITH 4" COVER
 - 1 LANDSCAPE DRIP TUBING PER LEGEND
 - 1 PVC HEADER WITH 12" COVER
 - 1 INSERT TEE OR CROSS, TYP.
 - 1 START CONNECTION, TYP (REFER TO MANUF. INSTALLATION INSTRUCTIONS)
- NOTES**
- A. SEE PLANS AND LEGEND FOR ALL DIMENSIONS AND DRIPLINE SPACING.
 - B. RATIO OF LATERALS TO START CONNECTIONS IS SHOWN AT 2:1, BUT MAY VARY PER HYDRAULIC DEMAND ON START CONNECTION (MAXIMUM RATIO 5:1)

G DRIP INSTALL - SUBHEADER
SCALE: N.T.S.



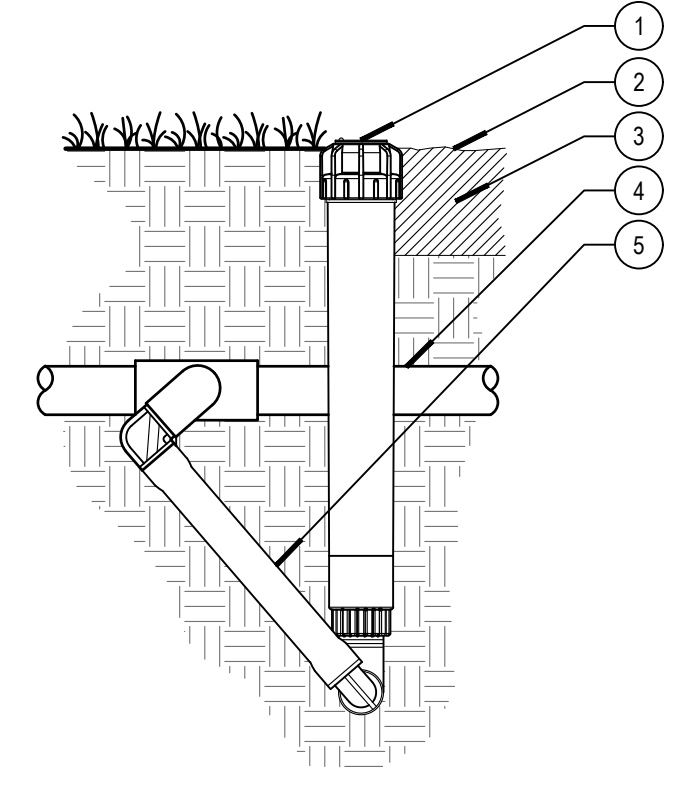
- LEGEND**
- 1 PRESSURE-COMPENSATING IN-LINE EMITTER TUBING PER LEGEND
 - 2 EMITTER PRE-INSTALLED IN TUBING
 - 3 PLANT MATERIAL - SEE PLANS FOR SPACING
 - 4 LOCKING INSERT FITTING
 - 5 SPACING PER LEGEND

H DRIP TUBING CONNECTION
SCALE: 1" = 1'-0"



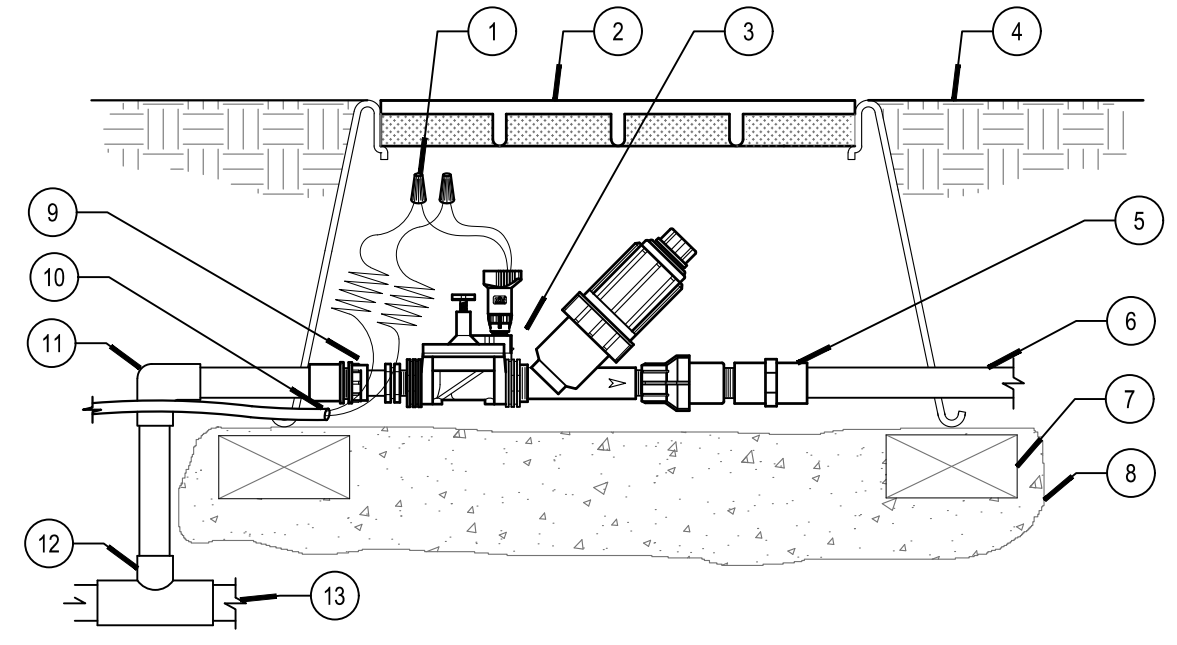
- LEGEND**
- 1 FLUSH VALVE PLUMBED TO PVC OR POLY EXHAUST MANIFOLD
 - 2 PVC OR POLY EXHAUST MANIFOLD
 - 3 PERIMETER LATERALS 2" TO 4" MIN., 1/2" LATERAL SPACING MAX FROM EDGE
 - 4 BLANK TUBING MANIFOLD FOR AIR VAC RELIEF (CENTERED ON MOUND OR BERM)
 - 5 AIR/VACUUM RELIEF VALVE (INSTALL AT HIGHEST LOCAL ELEVATION)
 - 6 AREA PERIMETER/EDGE OF PLANTER
 - 7 DRIP TUBING LATERAL LINE
 - 8 SECURE SIP LINES WITH JUTE NET STAPLED, OR EQUAL 5" O.C.
 - 9 PVC OR POLY SUPPLY MANIFOLD
 - 10 REMOTE CONTROL VALVE WITH DISC, FILTER AND PRV
 - 11 START CONNECTION AS APPROPRIATE (SEE OTHER DETAILS)
- NOTES**
- A. DRIPLINES TO BE EQUALLY AND UNIFORMLY SPACED FOR ENTIRE LENGTH OR RUN
 - B. SPACE LINES AS SHOWN AND/OR NOTED ON DRAWINGS AND SPECS
 - C. SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION
 - D. DRIPLINES TO BE LAID FLAT AND SECURED TO SUBGRADE WITH STAPLES AT 5' CENTERS PRIOR TO BACKFILL
 - E. USE CAUTION WHEN SECURING DRIPLINE WITH STAPLES. DRIPLINE SHALL NOT BE OBSTRUCTED, KINKED, OR PUNCTURED.
 - F. DRIPLINE TO BE EQUALLY SPACED THROUGHOUT. SEE NOTES AND LEGEND FOR SPACING.

I DRIP TUBING LAYOUT
N.T.S.



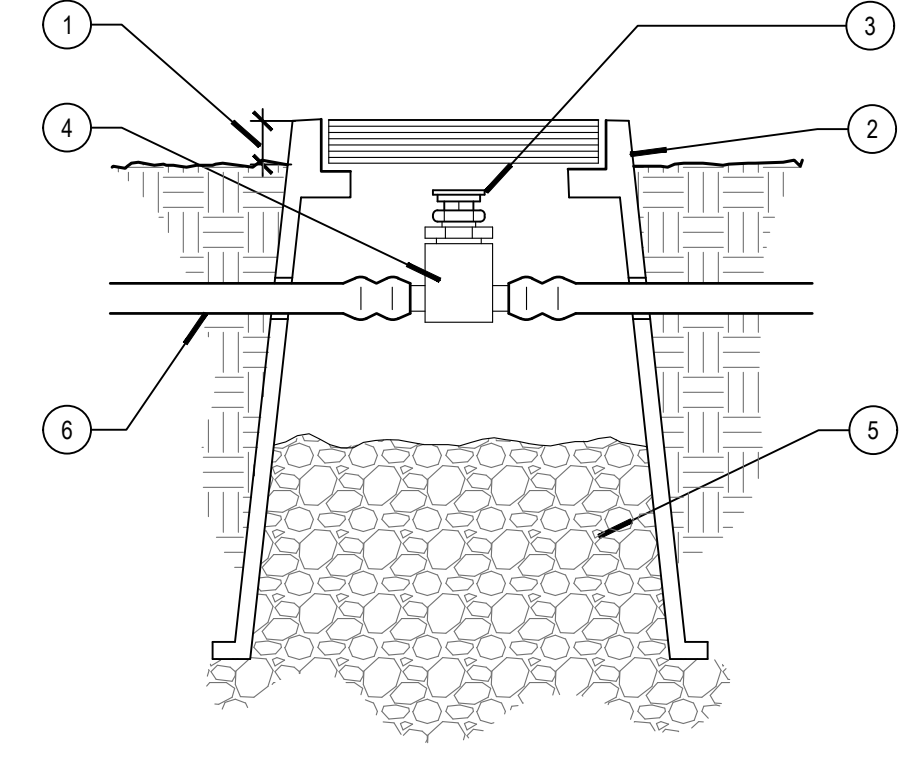
- LEGEND**
- 1 ECO-INDICATOR
 - 2 FINISHED GRADE
 - 3 ADJACENT MULCH
 - 4 PVC LATERAL PIPE
 - 5 SWING JOINT

J DRIP INDICATOR ON SWING JOINT
SCALE: 1" = 1" NTS



- LEGEND**
- 1 WIRE CONNECTORS
 - 2 VALVE BOX WITH COVER - 12" SIZE
 - 3 CONTROL VALVE ASSEMBLY, MODEL P39-075
 - 4 FINISH GRADE TOP
 - 5 3/4" FEMALE NPT COUPLING X SLIP
 - 6 PVC LATERAL LINE
 - 7 BRICK SUPPORT AT EACH CORNER
 - 8 PEA GRAVEL SUMP, MINIMUM 3"
 - 9 SWIVEL FITTING DIG MODEL 23-004 1" F X 1/2"
 - 10 CONTROL WIRE TO OTHER VALVE
 - 11 PVC SCHEDULE 40 90 DEGREE
 - 12 SCH 40 TEE
 - 13 MAIN SUPPLY LINE

K SOLAR CONTROLLER COMPATIBLE DRIP VALVE
SCALE: 1 1/2" = 1'-0"



- LEGEND**
- 1 FINISH GRADE, 2" TYP.
 - 2 6" ROUND PLASTIC VALVE BOX.
 - 3 AIR RELIEF VALVE- REFER TO IRRIGATION LEGEND.
 - 4 DRIPLINE ADAPTER TEE PER MANUF.
 - 5 PEA GRAVEL- 12" DEPTH.
 - 6 DRIPLINE TUBING - REFER TO IRRIGATION LEGEND.

L AIR RELIEF VALVE
SCALE: NTS

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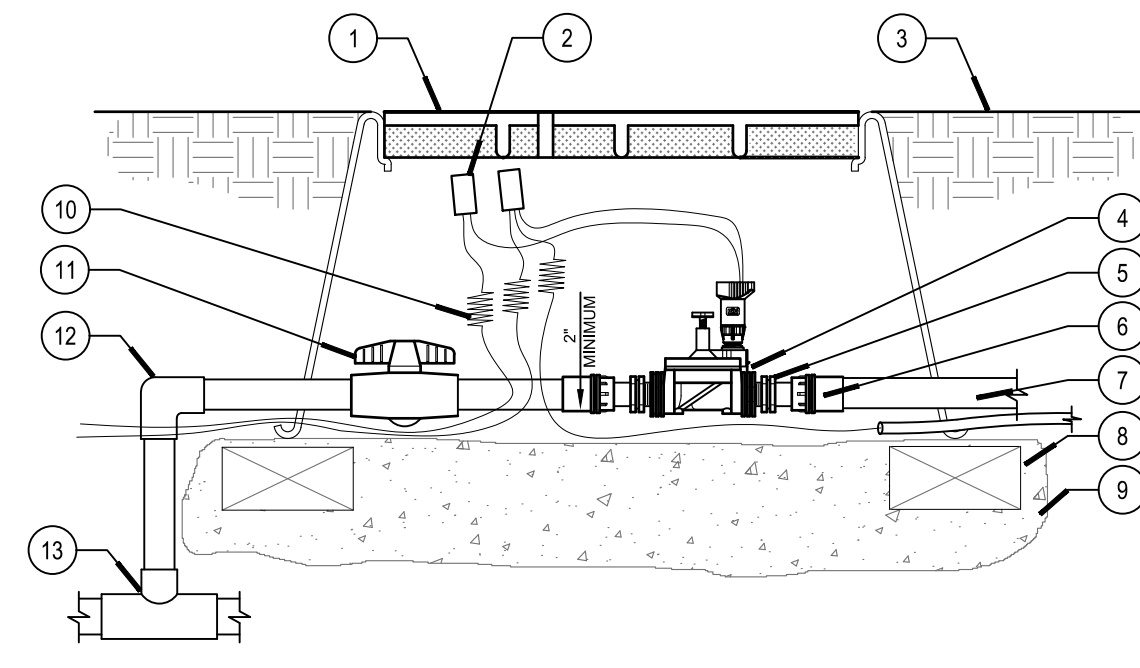


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 SCALE: AS SHOWN
 DESIGNED BY: PF
 DRAWN BY: PF
 CHECKED BY: MD

IRRIGATION DETAILS

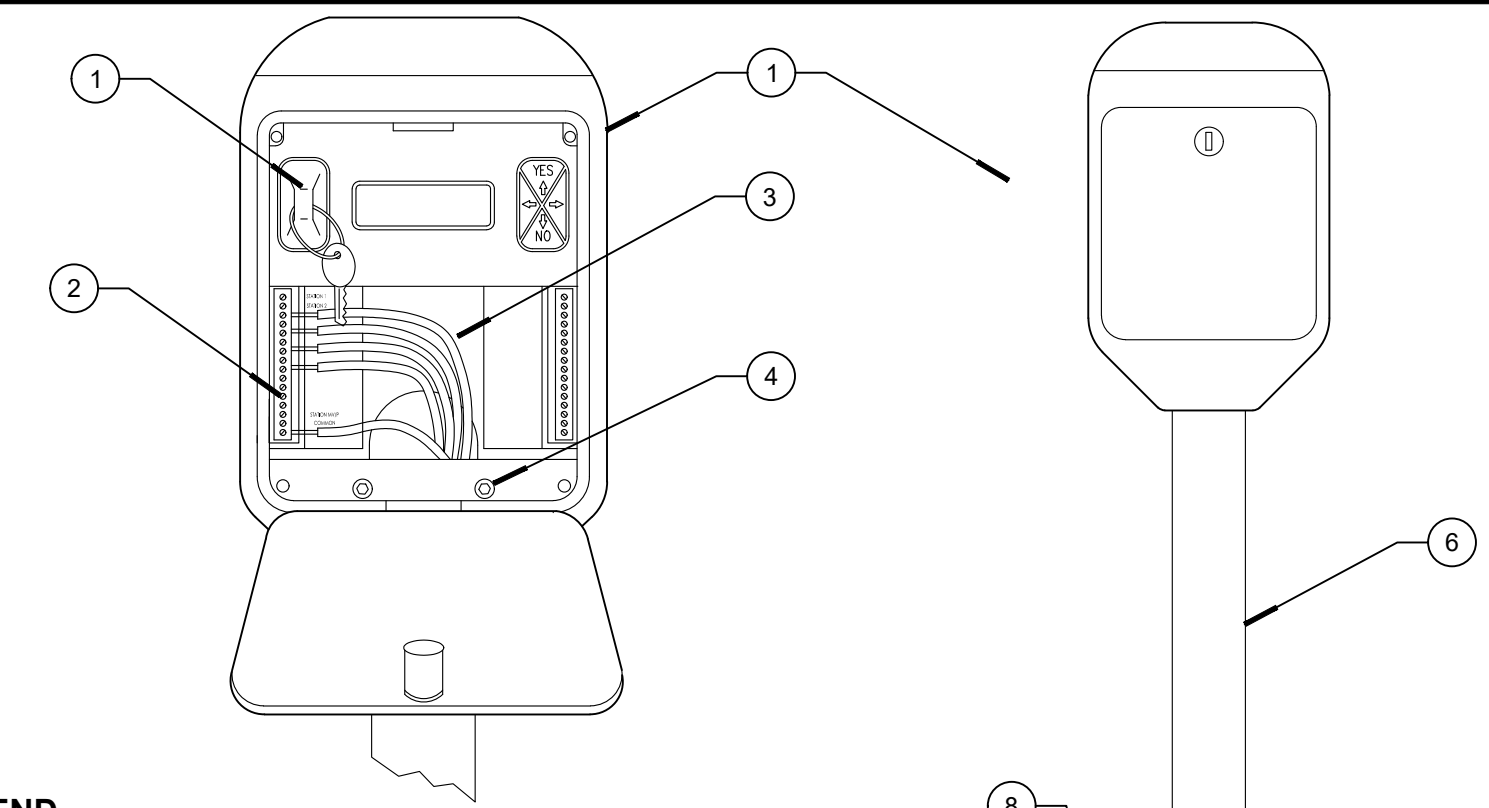
ENTERPRISE BESS
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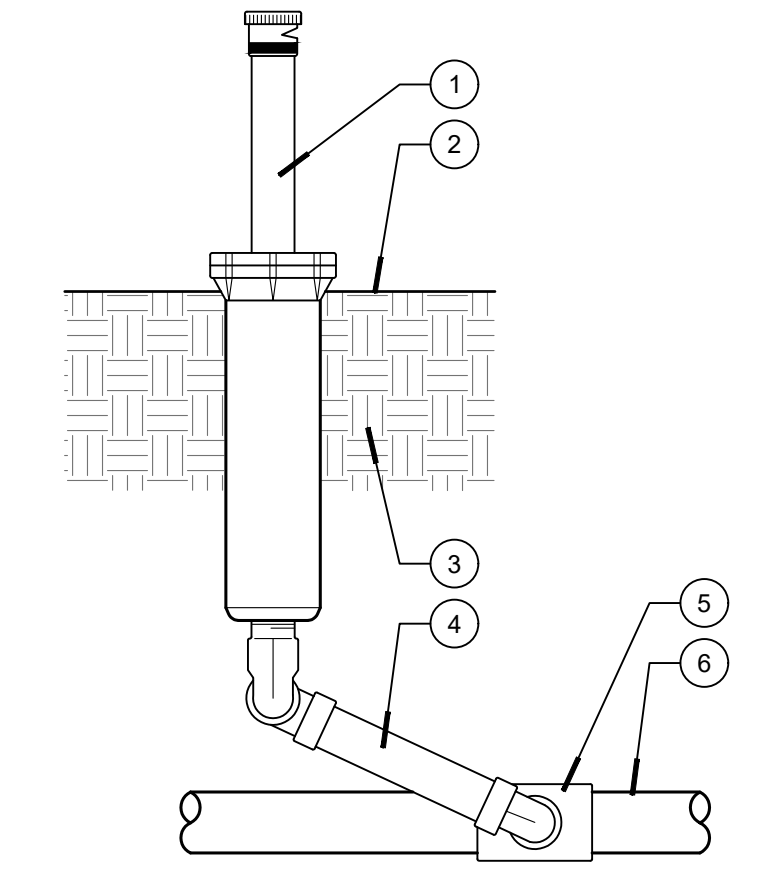
- LEGEND**
- | | |
|---|--|
| 1 VALVE BOX WITH COVER 18" SIZE | 7 PVC SCH 40 MALE ADAPTER |
| 2 DRY SPLICE CONNECTORS | 8 PVC LATERAL LINE |
| 3 FINISH GRADE TOP | 9 BRICK SUPPORT AT EACH CORNER |
| 4 DIG VALVE MODEL:
1/2" 160 HE - 075;
1" 160 HE - 100 | 10 PEA GRAVEL SUMP - MINIMUM 3" |
| 5 SWIVEL FITTING DIG MODEL | 11 12 OR 14 GAUGE WIRE |
| 6 1/2" 23-004, 1" 23-003 | 12 BACK-UP NPT PVC BALL VALVE |
| | 13 PVC SCHEDULE 40 90 DEGREE ELL. SCH 40 TEE |

M DIG LEIT REMOTE CONTROL VALVE
SCALE: 1 1/2" = 1'-0"



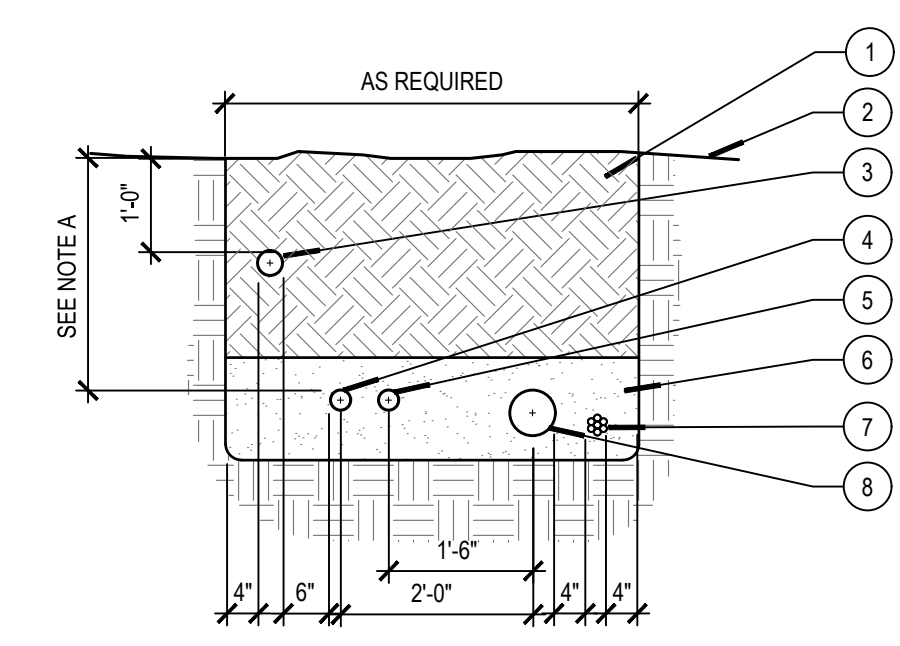
- LEGEND**
- | |
|---|
| 1 AMBIENT LIGHT POWERED CONTROLLER PER PLAN |
| 2 TERMINAL STRIP |
| 3 12 OR 14 GAUGE WIRE |
| 4 CLAMPS, SPACER AND SCREWS INCLUDED WITH MOUNTING COLUMN |
| 5 PROGRAMMING KEY MODEL LEIT KEY |
| 6 GALVANIZED STEEL MOUNTING COLUMN; A. MODEL MCOLX 35" (89 CM) SHORT; B. MODEL MCOLXL 51" (129 CM) LONG |
| 7 12" X 18" POURED CONCRETE BASE USING 90 LB (40 KG) BAG OF CONCRETE. INSTALL PER MANUFACTURER'S INSTALLATION GUIDE |
| 8 FINISH GRADE |
| 9 BACKFILL SOIL |
| 10 DIRECT BURIAL CONTROL WIRES TO CONTROL VALVES |

N DIG LEIT AMBIENT LIGHT POLE-MOUNTED CONTROLLER
N.T.S.



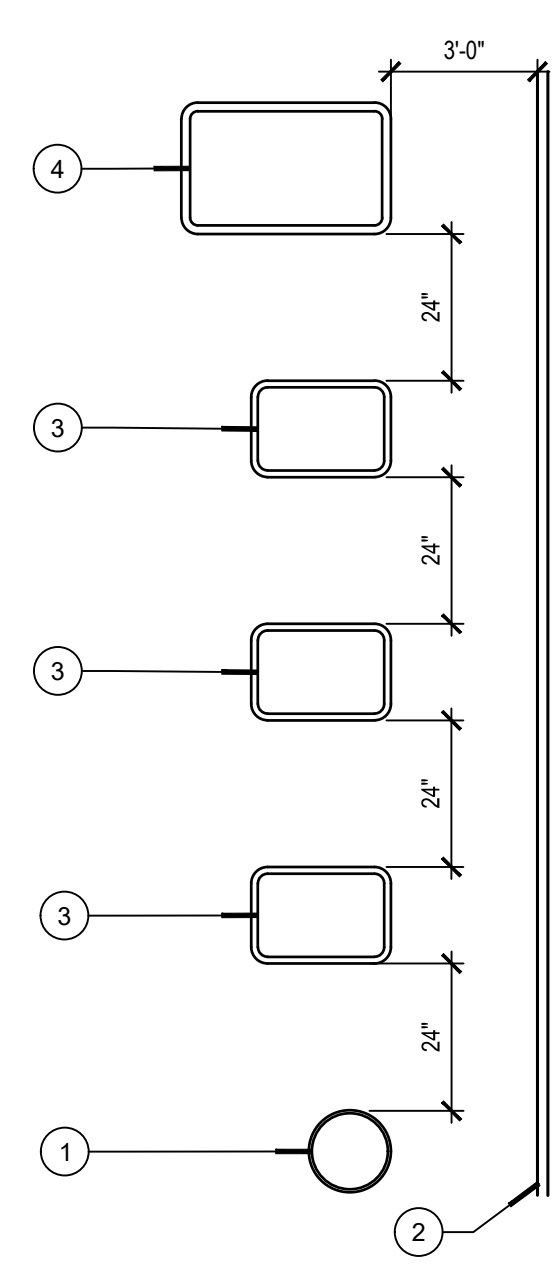
- LEGEND**
- | | |
|---|---|
| 1 INSTALL POP-UP HEAD - SEE IRRIGATION LEGEND FOR SPECIFICATION | 5 SCH 40 PVC SxSxT TEE FITTING LATERAL X SPRINKLER INLET SIZE |
| 2 FINISH GRADE - SET 1" BELOW TOP OF HEAD TYP. | 6 LATERAL LINE, SEE LENGEND AND DETAILS FOR TYPE AND DEPTH REQUIRED |
| 3 UNDISTURBED SOIL | |
| 4 TRIPLE SWING JOINT ASSEMBLY | |
- NOTES**
- | |
|---|
| A. INSTALL SPRINKLER HEADS 8" FROM PAVING EDGE IN SHRUB AND GROUND COVER AREAS |
| B. INSTALL SPRINKLER HEADS 4" FROM PAVING EDGE IN TURF AREAS |
| C. ADJUST SPRAYS OR NOZZLE STREAM SO THERE IS NO OVERSPRAY ONTO ADJACENT HARDSCAPE AND/OR BUILDINGS |
| D. ALL THREADED CONNECTIONS SHALL HAVE TEFLON TAPE OR PASTE |

O POP-UP ROTARY HEAD
SCALE: N.T.S.



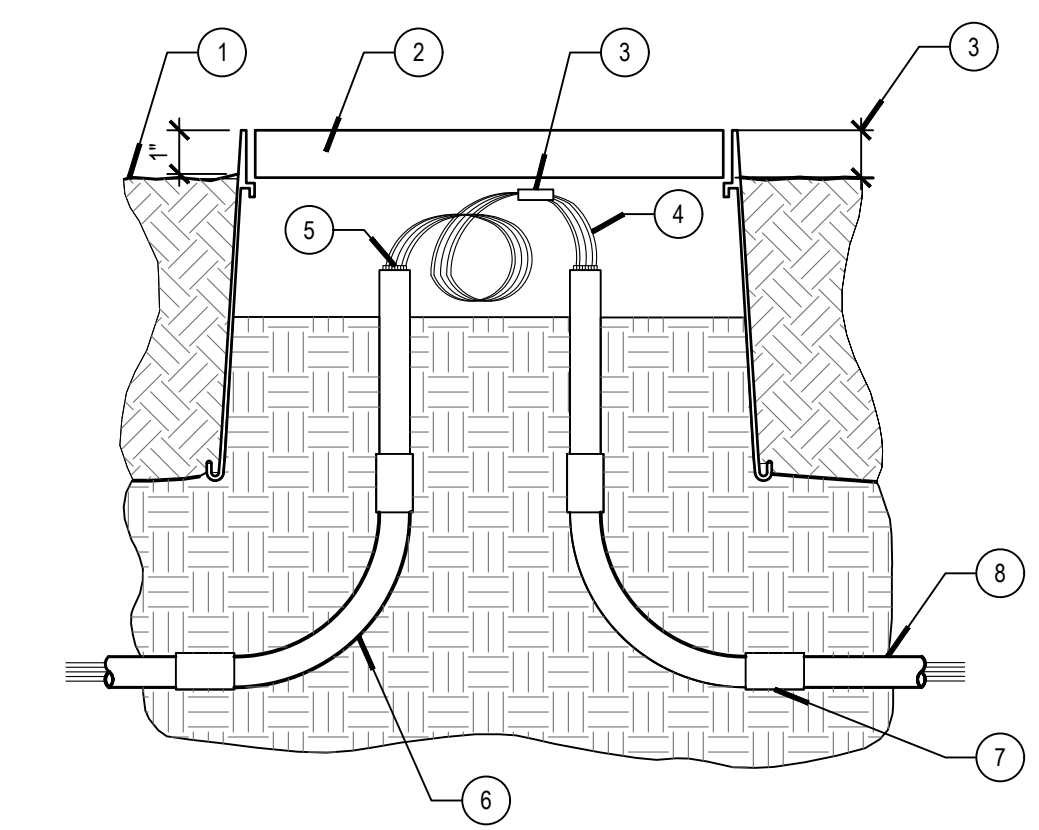
- LEGEND**
- | | | |
|---|---|-------|
| 1 REFER TO IRRIGATION SPECS FOR BACKFILL AND COMPACTION REQUIREMENTS | LINETYPE | DEPTH |
| 2 FINISH GRADE | PRESSURIZED MAINLINE 2 1/2" AND SMALLER | 18" |
| 3 NON-PRESSURIZED LATERAL LINE PIPING | PRESSURIZED MAINLINE 3" AND LARGER | 24" |
| 4 COMMUNICATION CABLE CONDUIT (WHERE REQUIRED) | LATERAL LINES | 12" |
| 5 FLOW SENSOR AND CABLE CONDUIT | | |
| 6 APPROVED BACKFILL OR SAND- PROVIDE 3" UNDER PIPE AND 4" AROUND PIPE | | |
| 7 CONTROL WIRE BUNDLES AND TAPED AT 10'-0" INTERVALS. INSTALL ADJACENT TO MAINLINE. | | |
| 8 PRESSURIZED MAINLINE PIPING | | |
- NOTES**
- | |
|---|
| A. ALL PLASTIC PIPING SHALL BE SNAKED IN TRENCHES |
| B. TIE LOOSE 20' LOOP IN WIRING AT ANY CHANGE IN DIRECTION GREATER THAN 30' - UNTIE ANY LOOPS AFTER ALL CONNECTIONS HAVE BEEN MADE. |
| C. ALL MAINLINE, LATERAL LINES, AND CONTROL WIRES SHALL BE SLEEVED BELOW ALL HARDSCAPE ELEMENTS. SEE SLEEVE DETAIL |
| D. ALL MAINLINE PIPING TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER INSTALLATION SPECIFICATIONS. |

P TRENCHING
SCALE: 1/2" = 1'-0"



- LEGEND**
- | |
|--|
| 1 10" DIAMETER CIRCULAR VALVE BOX (QCV) |
| 2 EDGE OF LAWN, WALK, CURB, FENCE, ETC |
| 3 12" X 18" RECTANGULAR VALVE BOX (RCV) |
| 4 20" X 30" RECTANGULAR VALVE BOX (DRIP RCV) |
- NOTES**
- | |
|---|
| A. CENTER VALVE BOX OVER VALVE TO FACILITATE SERVICING OF VALVE. |
| B. SET VALVE BOXES 2" MAXIMUM ABOVE GRADE IN MULCH COVER OR GROUND COVER/SHRUB AREAS - SET 1" ABOVE FINISH GRADE IN TURF AREAS. |
| C. SET VALVE BOX AND VALVE ASSEMBLY IN GROUND COVER/SHRUB AREAS WHERE POSSIBLE - INSTALL IN TURF ONLY IF THERE IS NO ADJACENT GROUND COVER. |
| D. SET VALVE BOXES PARALLEL TO ONE ANOTHER AND PERPENDICULAR TO EDGE. |
| E. AVOID HEAVY COMPACTION OF SOIL AROUND VALVE BOXES TO PREVENT THEIR DEFORMATION/COLLAPSE. |

Q VALVE BOX LAYOUT
SCALE: N.T.S.



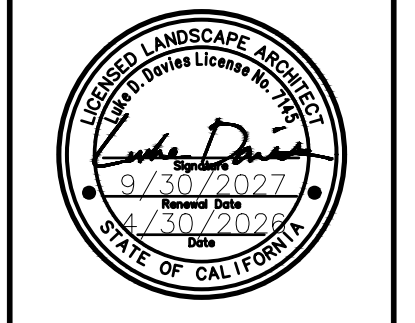
- LEGEND**
- | | |
|--|--|
| 1 FINISH GRADE:
-1" IN TURF AREAS / 2" IN SHRUB AREAS | 5 CONDUIT BUSHING. |
| 2 RECTANGULAR VALVE BOX, REFER TO SPECIFICATIONS | 6 U.L. LISTED PVC SCH. 40 90° SWEEP ELL. |
| 3 PERMANENT I.D. BAND (ONE FOR EACH WIRE) | 7 U.L. LISTED PVC SCH. 40 SxX COUPLING. |
| 4 CONTROL WIRE, REFER TO SPECIFICATIONS. | 8 U.L. LISTED PVC SCH. 40 CONDUIT |
- NOTES**
- | |
|---|
| A. REFER TO GENERAL NOTES FOR CONDUIT SIZE. PROVIDE SEPARATE 3/4" CONDUIT FOR FLOW SENSORS AND MASTER VALVES. |
|---|

R WIRE PULL BOX
SCALE: 3" = 1'-0"

Plotted By: Huang, Cecelia Sheet Set: Kna Layout: IRRIGATION DETAILS (3) April 30, 2026 11:14:57 am I:\Snd\p01\ca_and1\SEND_LOEVI\195582002_Ravenvolt_Enterprise\CAD\Plans\Sheets - ONSITE\LOEVI_195582002_IRRIGATION_PLAN.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

NO.	REVISIONS	DATE	BY

Kimley-Horn
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 500 LA TERRAZA BLVD., SUITE 300,
 ESCONDIDO, CA 92025
 PHONE: 760-286-6882
 WWW.KIMLEY-HORN.COM



KHA PROJECT: PROJ 195582002
 DATE: 4/30/26
 SCALE: AS SHOWN
 DESIGNED BY: PF
 DRAWN BY: PF
 CHECKED BY: MD

IRRIGATION DETAILS

ENTERPRISE BESS
 PREPARED FOR
RAVEN VOLT
 2381 AUTO PARK WAY,
 ESCONDIDO, CA 92029

SECTION 328400
PLANTING IRRIGATION

PART 1 - GENERAL

1.1 DESCRIPTION

A. The work in this section consists of furnishing, layout and installing an irrigation system complete, including certification of irrigation system installation as required by the State of California Model Water Ordinance described herein.

1.2 CITY REQUIREMENTS

A. CONTRACTOR shall be familiar with and follow the City of Municipalities' Efficient Water Landscape Ordinance Requirements.

B. Coordination with City's Public Works Department

1. A minimum of 11 weeks prior to need for service connection, CONTRACTOR shall contact the City's Public Works Department to establish a start date to install the new water service lateral and the irrigation water meter.

2. The City will install service lateral from the water main in the street to the location shown on the plans, including the meter box. City will supply and install the irrigation meter.

3. It is the responsibility of the Contractor to furnish and install an approved Reduced Pressure Principle (RPP) type backflow prevention assembly on General Metered Service. This assembly must be installed above ground immediately following the service connections. Any deviation from the locations indicated must be approved in advance by the City Public Works Department. City requires all backflow devices to be lead free and the backflow model is to be as specified on the plans, or approved equal.

4. The RPP assembly must be installed and tested by the City before allowing water use through its services. 24 hours prior to installing service you must contact the City Public Works Department and they will perform a field inspection and test.

1.3 QUALITY ASSURANCE

A. Manufacturer's Specifications: Follow manufacturer's current printed specifications and drawings in all cases where the manufacturers of articles used in the Contract furnish directions covering points not specified or shown in the drawings.

B. Ordinances and Regulations: All local, municipal and state laws, codes and regulations governing or relating to all portions of this work are hereby incorporated into and made a part of these Specifications. Anything contained in these Specifications shall not be construed to conflict with any of the above codes, regulations or requirements of the same. However, when these Specifications and Drawings call for or describe materials, workmanship or construction of a better quality, higher standard, or larger size than is required by the above codes and regulations, the provisions of these Specifications and Drawings shall take precedence. Furnish without extra charge additional materials and labor required to comply with above rules and regulations.

C. References, Codes and Standards:

1. City Municipal Codes
2. California Environmental Quality Act (CEQA)
3. Water Use Classification of Landscape Species (WIUCOLS).
4. American Society of Irrigation Consultants (ASIC) Design Guidelines.
5. California Landscape Standards, California Landscape Contractors Association, (CLCA) Sacramento, California.
6. CAL-OSHA, title 8, Subchapter 4-Construction Safety Orders and Subchapter 7-General Industry Safety Orders.
7. California Electric Code.
8. California Plumbing Code (UPC) published by the Association of Western Plumbing Officials.
9. NFPA 24, Section 10.4, Depth of Cover.
10. Underwriters Laboratories (UL): Electrical wiring, controls, motors and devices, UL listed and so labeled.
11. American Society of Testing Materials (ASTM).

D. Furnish without extra charge any additional material and labor when required by the compliance with all above mentioned codes and regulations, though the work is not mentioned in these specifications or shown on the drawings.

E. Experience: Assign a full-time employee to the job as supervisor for the duration of the Contract with a certified landscape technician, irrigation certification through CLCA or minimum of four (4) years experience in landscape irrigation installation.

F. Labor Force: Provide a landscape installation and maintenance force thoroughly familiar with, and trained in, the work to be accomplished to perform the task in a competent, efficient manner acceptable to the Owner's Representative.

G. Explanation of Drawings:

1. Due to the scale of the Drawings, it is not possible to indicate all piping offsets, fittings, sleeves, etc., which may be required. Carefully investigate the conditions affected all of the work and plan accordingly and furnish all required fittings. Install system in such a manner to avoid conflicts with planting, utilities and architectural features.

2. Do not install the irrigation system as shown on the Drawings when it is obvious in the field that obstructions, grade differences or discrepancies in arc dimensions exist that might not have been considered in engineering. Bring such obstruction or differences to the attention of the Owner's Representative. In the event this notification is not given, the CONTRACTOR shall assume full responsibility for any revision necessary.

H. Trench Interference with Tree Root Systems:

1. Prior to trenching, layout main and lateral line locations within Drip Line of trees and review locations with ENGINEER. Relocate any lines that may interfere with existing root systems to avoid or reduce damage to root systems as accepted by Owner's Representative.

Mechanical Trenching is not allowed within dripline of existing trees to be protected except as approved by Owner's Representative.

I. Coordinate plant locations with emitter locations.

1. Adjust plant locations in relation to the subsurface emitters as required to ensure that the plant roots receive the proper amount of water in order for it to thrive.

2. Coordinate planting and irrigation and provide hand watering of emitter irrigated and drip irrigated areas as required to maintain moist root zones until end of plant establishment period.

1.4 PROTECTION OF EXISTING STRUCTURES AND UTILITIES

A. The Drawings show, if applicable, existing above and below grade structures and utilities that are known to the OWNER. Locate known existing installations before proceeding with construction operations that may cause damage to such installations. Existing installations shall be kept in service where possible and damage to them shall be repaired with no adjustment of Contract Sum.

B. If other structures or utilities are encountered, request Owner's Representative to provide direction on how to proceed with the Work. If a structure or utility is damaged, take appropriate action to ensure the safety of persons and property.

C. CONTRACTOR to ensure that existing irrigation systems mainline water sources are protected. Maintain water to existing plants served by the existing irrigation system(s). Maintain electrical low voltage conductor connections from the existing irrigation controllers to remote control valves serving existing irrigation systems within and beyond the project limits. CONTRACTOR shall be fully responsible for all repairs to existing irrigation system(s) if a list of deficiencies is not done prior to the start of construction operations and submitted to the Owner's Representative.

1.5 SUBMITTALS

A. Materials List:

1. Submit required copies of the cut sheets and a complete list of materials proposed for installation, along with any proposed substitutions clearly identified and obtain the Owner's Representative's written approval thereof before proceeding. Use only accepted materials and items of equipment.

2. List all materials by manufacturer's name and model number.

B. Substitutions:

1. If the CONTRACTOR desires to substitute a product, he shall list each item and note it as a "substitution" and provide the following information:
a. Descriptive information describing its similarities to the specified product.

2. If the product is approved and, in the opinion of the Owner's Representative, the substituted product does not perform as well as the specified product, the CONTRACTOR shall replace it with the specified product at no additional cost to the OWNER.

C. Operations and Maintenance Manuals:

1. Prior to the final acceptance of the irrigation system, furnish three (3) individually bound Operation and Maintenance Manuals to the Owner's Representative for use by the OWNER. The manuals shall contain complete enlarged drawings, diagrams and spare parts lists of all equipment installed showing manufacturer's name and address. In addition, each Service Manual shall contain the following:
a. Index sheet indicating the CONTRACTOR's name, address and phone number.
b. Copy of the Landscape Irrigation Audit
c. Copy of the 12-month irrigation schedule and estimate of annual water consumption
d. Copies of equipment warranties and certificates.
e. List of equipment with names, addresses and telephone numbers of all local manufacturer representatives.
f. Complete operating and maintenance instructions in sufficient detail to permit operating personnel to understand, operate and maintain all equipment.
g. Parts list of all equipment such as controllers, valves, solenoids and heads.

D. Record Drawings:

1. Dimension the location of the following items from two (2) permanent points of reference such as building corners, sidewalks, road intersections, etc.:
a. Connection to existing water lines/meter.
b. Connection to electrical power.
c. Gate valves.
d. Routing of sprinkler pressure lines (a dimension at least every 100 feet and as required to identify all changes in direction and location).
e. Remote control valves.
f. Routing of control valves.
g. Quick coupling valves.
h. All sleeve locations.
i. Routing of all control wiring.
j. Including all invert elevations below 12".

2. Deliver a reproducible record drawing to the Owner's Representative within seven (7) working days before the date of final review. Delivery of the record drawings shall not relieve the CONTRACTOR of the responsibility of furnishing required information in the future.

E. Controller Plan:

1. Provide one Irrigation Diagram plan in each controller housing. The plan shall show the area controlled by each valve in different colors and for orientation, any major permanent structure such as buildings and roads.

2. Charts to be waterproof and hermetically sealed between two pieces of transparent 10 mil thick plastic and installed in each controller on the door as accepted by the Owner's Representative no later than the time of the coverage test of the irrigation system.

F. Maintenance Material - supply the following tools to the OWNER:
1. Three (3) sets of specialized tools required for removing, disassembling and adjusting each type of sprinkler, valve or other equipment supplied on this project.

2. Two (2) keys for each type of equipment enclosure.
3. Two (2) keys for each type of automatic controller.
4. Two (2) keys for each type of valve (including square type key for valves larger than 2").

5. Two (2) quick-coupler keys and matching hose swivels for each type of quick-coupling valve installed.

6. All lock keys shall be keyed alike.

F. Irrigation Inspection Checklist - supply the attached checklist to the OWNER upon completion:

2.2 CONTROLLER ENCLOSURES

A. Type: As shown on plans (or approved equal)

2.3 REMOTE CONTROL VALVE: As shown on Drawings and with the following minimum requirements:

A. Furnish and deliver materials in manufacturer's packaging, bearing original labeling.

B. The CONTRACTOR is cautioned to exercise care in handling, loading, unloading, and storing PVC pipe and fittings. All PVC pipe shall be transported in a vehicle which allows the length of the pipe to lie flat so as not to subject it to undue bending or concentrated external load at any point. Any section of pipe that has been dented, cracked, or otherwise damaged shall be discarded and, if installed, shall be replaced with new piping.

A. Prior to trenching, layout main and lateral line locations within Drip Line of trees and review locations with ENGINEER. Relocate any lines that may interfere with existing root systems to avoid or reduce damage to root systems as accepted by Owner's Representative.

1.8 SEQUENCING AND SCHEDULING

A. Acceptance: Do not install main line trenching prior to acceptance by Owner's Representative of rough grades completed under another Section.

B. Coordination: Coordinate with the work of other sections to insure the following sequence of events:

2.4 BOX FOR REMOTE CONTROL VALVE

A. Valve boxes shall be rated for an h-20 traffic Loading or conform to ASTM D-638, tensile strength 3400 psi and impact strength of 1.5 pounds per inch. Valve box extensions shall be of the same type as the valve box and all covers shall be lockable and be minimum overall size of 13" x 24" and minimum depth of 24".

2.5 CONTROLLER GROUND

A. Provide each pedestal controller with its own ground rod. Separate the ground rods by a minimum of eight feet. The ground rod shall be an eight foot long by 5/8" diameter U.L. approved copper clad rod or as recommended by controller manufacturer. Install no more than 6" of the ground rod above finish grade. Connect #8 gauge wire with a U.L. approved ground rod clamp to rod and back to ground screw at base of controller with appropriate connector. Make this wire as short as possible, avoiding any kinks or bending. Install within pedestal housing base unless otherwise noted.

2.6 GENERAL REQUIREMENTS FOR AUTOMATIC CONTROLLERS & CENTRAL:

A. Satellite Controllers: Capable of operating with manufacturer's Central Control System software.

B. Flow Sensors: Compatible with Central Control System and as recommended by Control System manufacturer.

C. Flow Monitors: Compatible with Central Control System and as recommended by manufacturer.

D. Hand Held Remote Control: Portable device as manufactured by Control System manufacturer capable of operating all control valves.

E. Master Control Valve: Master control valve shall be a 24 VAC, industrial type, solenoid control valve, Griswold 2000 series or equal. Valve shall be equipped with spring loaded packless diaphragm, cast iron body and bronze trim. The valve shall be of the normally closed type and shall be equipped with four-ring (cross) flow control. Valve shall be slow closing without chatter settings or adjustment. Valve shall have a mechanical self-purging internal control system with tapered, serrated, scrubbing rod through diaphragm for positive, variable port opening and cleaning. No solenoid port screens. Valve solenoid shall be corrosion-proof, molded in epoxy to form one integral unit with no connection shunts and shall be 24 VAC, 3 watt maximum.

2.10 OPERATION

A. Routine: Inspect and adjust all spray heads and control valves including raising or lowering of spray head heights to accommodate plant growth and weather conditions.

B. Controller: Inspect regularly for power interruption and reset clock as required. Adjust station timing to accommodate changes in plant growth and weather conditions.

C. System Failure: Perform all repairs within one (1) operating period. Replacements to match removed products and materials in all respects. Report promptly all damage not resulting from CONTRACTOR's operations. Repair all damage caused by CONTRACTOR at no expense to OWNER.

2.11 PIPE

A. Pressure Main Line Pipe and Fittings: All PVC fittings shall bear the manufacturer's trademark name, material designation, size, applicable I.P.S. schedule and NSF seal of approval.

B. All main line pipe shall be solvent welded and shall be schedule 40 unless shown otherwise on the Drawings.

1. PVC Pressure Rated Pipe: ASTM D2241 NSF approved Type I, Grade 1, solvent welded PVC with an appropriate standard dimension ratio (S.D.R.).

2. PVC Schedules Pipe: ASTM D1785 NSF approved, Type I.

3. Grade 1, solvent welded PVC.

4. PVC Solvent-weld Fittings: ASTM D2466 Schedule 40, 1-2, 1/4 NSF approved.

5. Solvent Cement and Primer for PVC solvent-weld pipe and fittings: Type and installation methods prescribed by the manufacturer.

6. Connections between Main Lines and RCVs: Schedule 80 PVC (threaded both ends) nipples and fittings unless required otherwise by local jurisdiction

7. Valves 2-inch and larger shall be flanged only.

8. Copper pipe shall be Type K or Red Brass where threaded joints are required and Type L otherwise.

9. All lateral line pipe shall be solvent welded and shall be schedule 40 unless shown otherwise on the Drawings.

10. All lock keys shall be keyed alike.

11. Irrigation Inspection Checklist - supply the attached checklist to the OWNER upon completion:

2.2 CONTROLLER ENCLOSURES

A. Type: As shown on plans (or approved equal)

2.3 REMOTE CONTROL VALVE: As shown on Drawings and with the following minimum requirements:

A. Furnish and deliver materials in manufacturer's packaging, bearing original labeling.

B. The CONTRACTOR is cautioned to exercise care in handling, loading, unloading, and storing PVC pipe and fittings. All PVC pipe shall be transported in a vehicle which allows the length of the pipe to lie flat so as not to subject it to undue bending or concentrated external load at any point. Any section of pipe that has been dented, cracked, or otherwise damaged shall be discarded and, if installed, shall be replaced with new piping.

A. Prior to trenching, layout main and lateral line locations within Drip Line of trees and review locations with ENGINEER. Relocate any lines that may interfere with existing root systems to avoid or reduce damage to root systems as accepted by Owner's Representative.

1.8 SEQUENCING AND SCHEDULING

A. Acceptance: Do not install main line trenching prior to acceptance by Owner's Representative of rough grades completed under another Section.

B. Coordination: Coordinate with the work of other sections to insure the following sequence of events:

2.4 BOX FOR REMOTE CONTROL VALVE

A. Valve boxes shall be rated for an h-20 traffic Loading or conform to ASTM D-638, tensile strength 3400 psi and impact strength of 1.5 pounds per inch. Valve box extensions shall be of the same type as the valve box and all covers shall be lockable and be minimum overall size of 13" x 24" and minimum depth of 24".

2.5 CONTROLLER GROUND

A. Provide each pedestal controller with its own ground rod. Separate the ground rods by a minimum of eight feet. The ground rod shall be an eight foot long by 5/8" diameter U.L. approved copper clad rod or as recommended by controller manufacturer. Install no more than 6" of the ground rod above finish grade. Connect #8 gauge wire with a U.L. approved ground rod clamp to rod and back to ground screw at base of controller with appropriate connector. Make this wire as short as possible, avoiding any kinks or bending. Install within pedestal housing base unless otherwise noted.

2.6 GENERAL REQUIREMENTS FOR AUTOMATIC CONTROLLERS & CENTRAL:

A. Satellite Controllers: Capable of operating with manufacturer's Central Control System software.

B. Flow Sensors: Compatible with Central Control System and as recommended by Control System manufacturer.

C. Flow Monitors: Compatible with Central Control System and as recommended by manufacturer.

D. Hand Held Remote Control: Portable device as manufactured by Control System manufacturer capable of operating all control valves.

E. Master Control Valve: Master control valve shall be a 24 VAC, industrial type, solenoid control valve, Griswold 2000 series or equal. Valve shall be equipped with spring loaded packless diaphragm, cast iron body and bronze trim. The valve shall be of the normally closed type and shall be equipped with four-ring (cross) flow control. Valve shall be slow closing without chatter settings or adjustment. Valve shall have a mechanical self-purging internal control system with tapered, serrated, scrubbing rod through diaphragm for positive, variable port opening and cleaning. No solenoid port screens. Valve solenoid shall be corrosion-proof, molded in epoxy to form one integral unit with no connection shunts and shall be 24 VAC, 3 watt maximum.

2.10 OPERATION

A. Routine: Inspect and adjust all spray heads and control valves including raising or lowering of spray head heights to accommodate plant growth and weather conditions.

B. Controller: Inspect regularly for power interruption and reset clock as required. Adjust station timing to accommodate changes in plant growth and weather conditions.

C. System Failure: Perform all repairs within one (1) operating period. Replacements to match removed products and materials in all respects. Report promptly all damage not resulting from CONTRACTOR's operations. Repair all damage caused by CONTRACTOR at no expense to OWNER.

2.11 PIPE

A. Pressure Main Line Pipe and Fittings: All PVC fittings shall bear the manufacturer's trademark name, material designation, size, applicable I.P.S. schedule and NSF seal of approval.

set remote from controller as recommended by controller manufacturer. Separate the ground rod by a minimum of eight feet. The ground rod shall be an eight foot long by 5/8" diameter U.L. approved copper clad rod or as recommended by controller manufacturer. Install no more than 6" of the ground rod above finish grade. Connect #8 gauge wire with a U.L. approved ground rod clamp to rod and back to ground screw at base of controller with appropriate connector. Make this wire as short as possible, avoiding any kinks or bending. Install within pedestal housing base unless otherwise noted.

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2. PVC Schedules Pipe: ASTM D1785 NSF approved, Type I.

3. Grade 1, solvent welded PVC.

4. PVC Solvent-weld Fittings: ASTM D2466 Schedule 40, 1-2, 1/4 NSF approved.

5. Solvent Cement and Primer for PVC solvent-weld pipe and fittings: Type and installation methods prescribed by the manufacturer.

6. Connections between Main Lines and RCVs: Schedule 80 PVC (threaded both ends) nipples and fittings unless required otherwise by local jurisdiction

7. Valves 2-inch and larger shall be flanged only.

8. Copper pipe shall be Type K or Red Brass where threaded joints are required and Type L otherwise.

9. All lateral line pipe shall be solvent welded and shall be schedule 40 unless shown otherwise on the Drawings.

10. All lock keys shall be keyed alike.

11. Irrigation Inspection Checklist - supply the attached checklist to the OWNER upon completion:

2.2 CONTROLLER ENCLOSURES

A. Type: As shown on plans (or approved equal)

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A. Furnish and deliver materials in manufacturer's packaging, bearing original labeling.

B. The CONTRACTOR is cautioned to exercise care in handling, loading, unloading, and storing PVC pipe and fittings. All PVC pipe shall be transported in a vehicle which allows the length of the pipe to lie flat so as not to subject it to undue bending or concentrated external load at any point. Any section of pipe that has been dented, cracked, or otherwise damaged shall be discarded and, if installed, shall be replaced with new piping.

A. Prior to trenching, layout main and lateral line locations within Drip Line of trees and review locations with ENGINEER. Relocate any lines that may interfere with existing root systems to avoid or reduce damage to root systems as accepted by Owner's Representative.

1.8 SEQUENCING AND SCHEDULING

A. Acceptance: Do not install main line trenching prior to acceptance by Owner's Representative of rough grades completed under another Section.

B. Coordination: Coordinate with the work of other sections to insure the following sequence of events:

2.4 BOX FOR REMOTE CONTROL VALVE

A. Valve boxes shall be rated for an h-20 traffic Loading or conform to ASTM D-638, tensile strength 3400 psi and impact strength of 1.5 pounds per inch. Valve box extensions shall be of the same type as the valve box and all covers shall be lockable and be minimum overall size of 13" x 24" and minimum depth of 24".

2.5 CONTROLLER GROUND

A. Provide each pedestal controller with its own ground rod. Separate the ground rods by a minimum of eight feet. The ground rod shall be an eight foot long by 5/8" diameter U.L. approved copper clad rod or as recommended by controller manufacturer. Install no more than 6" of the ground rod above finish grade. Connect #8 gauge wire with a U.L. approved ground rod clamp to rod and back to ground screw at base of controller with appropriate connector. Make this wire as short as possible, avoiding any kinks or bending. Install within pedestal housing base unless otherwise noted.

2.6 GENERAL REQUIREMENTS FOR AUTOMATIC CONTROLLERS & CENTRAL:

A. Satellite Controllers: Capable of operating with manufacturer's Central Control System software.

B. Flow Sensors: Compatible with Central Control System and as recommended by Control System manufacturer.

C. Flow Monitors: Compatible with Central Control System and as recommended by manufacturer.

D. Hand Held Remote Control: Portable device as manufactured by Control System manufacturer capable of operating all control valves.

E. Master Control Valve: Master control valve shall be a 24 VAC, industrial type, solenoid control valve, Griswold 2000 series or equal. Valve shall be equipped with spring loaded packless diaphragm, cast iron body and bronze trim. The valve shall be of the normally closed type and shall be equipped with four-ring (cross) flow control. Valve shall be slow closing without chatter settings or adjustment. Valve shall have a mechanical self-purging internal control system with tapered, serrated, scrubbing rod through diaphragm for positive, variable port opening and cleaning. No solenoid port screens. Valve solenoid shall be corrosion-proof, molded in epoxy to form one integral unit with no connection shunts and shall be 24 VAC, 3 watt maximum.

2.10 OPERATION

A. Routine: Inspect and adjust all spray heads and control valves including raising or lowering of spray head heights to accommodate plant growth and weather conditions.

B. Controller: Inspect regularly for power interruption and reset clock as required. Adjust station timing to accommodate changes in plant growth and weather conditions.

C. System Failure: Perform all repairs within one (1) operating period. Replacements to match removed products and materials in all respects. Report promptly all damage not resulting from CONTRACTOR's operations. Repair all damage caused by CONTRACTOR at no expense to OWNER.

2.11 PIPE

A. Pressure Main Line Pipe and Fittings: All PVC fittings shall bear the manufacturer's trademark name, material designation, size, applicable I.P.S. schedule and NSF seal of approval.

concrete per Section 90 of the Caltrans Standard Specifications.

B. Sleeves and Conduits: See Drawings.

C. Key(s) for Quick-Coupling Valves:
1. Type: Same manufacturer as Quick-Coupling Valve.

2.6 OTHER EQUIPMENT: As shown on Drawings and required for a fully functional irrigation system.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Sleeves and Conduits: Verify that all installed sleeving and conduits are undisturbed and are free of defects or errors introduced by the work of other sections.

B. Water Meter/Water Pressure: Test and verify that existing water pressure is the minimum pressure at maximum system g.p.m. to operate the irrigation system as indicated on the drawings.

C. Stub-outs: Verify that all stub-outs to be provided under another contract are correctly sized, located and installed as noted on Drawings.

D. Notification: Submit written notification to ENGINEER within ten (10) working days of above inspections describing all acceptable and non-acceptable site conditions. Technical Specifications Invitation for Bids No. PW13-11

3.2 TRENCH INTERFERENCE WITH TREE ROOT SYSTEMS:

A. Prior to trenching, layout main and lateral line locations within Drip Line of trees and review locations with ENGINEER. Relocate any lines that may interfere with existing root systems to avoid or reduce damage to root systems as accepted by ENGINEER.

3.3 CONNECTIONS TO SERVICES

A. Provide and coordinate connection to water meter.

B. Provide and coordinate connection of irrigation controller to electrical power source.

3.4 INSTALLATION

A. Install irrigation system components in accordance with this Section, with the Drawings, with the manufacturer's recommendations, and with established industry standards. The CONTRACTOR shall do nothing that may jeopardize any manufacturer warranty.

B. Conduits and Sleeves:

1. Coordination: Provide conduits and sleeves and coordinate installation with other trades.

2. Extend: Install conduits and sleeves where control wires and pipes pass under paving or through walls as shown on Drawings. Extend twelve inches (12") beyond edges of paving and walls and cap ends until ready for use.

C. Excavating and Trenching:

1. Pipe Layout: Layout pipe lines within Spread of Tree Branches as described above in Section 1.7, TRENCH INTERFERENCE WITH TREE ROOT SYSTEMS.

2. Dig trenches wide enough to allow a minimum of three inches (3") between parallel pipe lines. Provide a minimum cover from finish grade as follows:

D. Pipeline Assembly:

1. Install pipe and fittings in accordance with manufacturer's current printed Specifications.

2. Clean all pipes and fittings of dirt, scale and moisture before assembly.

3. Solvent-welded Joints for PVC Pipes:

a. Solvents: Use solvents and methods specified by pipe manufacturer.

b. Curing Period: Minimum of one (1) hour before applying any external stress on the piping and at least 24 hours before placing the joint under water pressure.

4. Threaded Joints for Plastic Pipes:

a. Use Permatex on all threaded PVC fittings except sprinkler heads and quick coupler valve ACME threads.

b. Joining: Use strap-type friction wrench only. Do not use metal-jawed wrench. Assemble finger tight plus one or two turns.

5. Laying of Pipe:

a. Bedding On-grade: Remove from trench all rocks or clods. Bed pipe in at least 2 inches of soil excavated from trench. Backfill on all sides of piping to provide a uniform bearing.

b. Snaking: Snake pipe from side to side of trench bottom to allow for expansion and contraction. Minimum allowance for snaking is one (1) additional foot per 100 ft. of pipe.

c. Moisture Restrictions: Do not lay PVC pipe when there is water in the

Attachment C

Communication with City of Escondido

From: [Jon Boyer](#)
To: [Robert Ray](#)
Subject: FW: MRP Enterprise BESS Land Use Coordination (PL26-0099)
Date: Wednesday, May 6, 2026 5:08:28 PM
Attachments: [2026.04.30 - Enterprise BESS Landscape Plans.pdf](#)

See attached.

Jon Boyer | Director of Environmental, Health, and Safety | Middle River Power | C: 760.912.3007

From: Jon Boyer
Sent: Monday, May 4, 2026 9:59 AM
To: 'Alex Rangel' <Alex.Rangel@escondido.gov>
Subject: RE: MRP Enterprise BESS Land Use Coordination (PL26-0099)

Received an update and approval for the Landscape plan last week, earlier than expected. Please let me know the naming requirements. Has 13 pages.

Jon Boyer | Director of Environmental, Health, and Safety | Middle River Power | C: 760.912.3007

From: Jon Boyer
Sent: Thursday, April 30, 2026 7:09 PM
To: 'Alex Rangel' Alex.Rangel@escondido.gov
Subject: RE: MRP Enterprise BESS Land Use Coordination (PL26-0099)

Also, attached is a draft of the Landscape Plan, related to question 3 that we present. I was not able to include this in the naming convention, potentially due to the number of pages. If you advise, I can correct.

Jon Boyer | Director of Environmental, Health, and Safety | Middle River Power | C: 760.912.3007

From: Alex Rangel <Alex.Rangel@escondido.gov>
Sent: Thursday, April 30, 2026 12:57 PM
To: Jon Boyer <jboyer@mrpgenco.com>
Subject: RE: MRP Enterprise BESS Land Use Coordination (PL26-0099)

Caution: This email originated from outside your organization. Do not click links or open attachments unless you recognize the sender and know the contents are safe. If you have ANY reason to doubt the authenticity of this message, contact IT

before you open or click on anything.

Thanks, Jon.

Pleasure to hear from you and happy to hear that this is still moving forward. As this item will be a “Conceptual” Project Review only, the full scope of detail for a formal plan submittal would not be required – if this is being provided to the City at this time.

Please keep me informed as this project moves forward – we are happy and excited to provide as much assistance as we can to all agencies involved.

Regards,



Alex Rangel
Associate Planner | Planning Services
Development Services | City of Escondido
760-839-4542
www.escondido.gov

From: Jon Boyer <jboyer@mrpgenco.com>
Sent: Thursday, April 30, 2026 9:51 AM
To: Alex Rangel <Alex.Rangel@escondido.gov>
Subject: RE: MRP Enterprise BESS Land Use Coordination (PL26-0099)

Alex,

Just to give you an update, should be submitting the high level questions soon with the separated drawings soon. I have added a Landscape Plan to the drawings, but it is being revised.

Jon Boyer | Director of Environmental, Health, and Safety | Middle River Power | C: 760.912.3007

From: Alex Rangel <Alex.Rangel@escondido.gov>
Sent: Monday, April 13, 2026 12:14 PM
To: Jon Boyer <jboyer@mrpgenco.com>
Cc: Douglas, Joseph@Energy <Joseph.Douglas@energy.ca.gov>; Dan Harmon <dharmon@mrpgenco.com>; Robert Ray <rrey@patchservices.com>; Joshua Ihm <jihm@mrpgenco.com>; Veronica Morones <Veronica.Morones@escondido.gov>
Subject: RE: MRP Enterprise BESS Land Use Coordination (PL26-0099)

Some people who received this message don't often get email from alex.rangel@escondido.gov. [Learn why this is important](#)

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or open attachments unless you recognize the sender and know the contents are safe. If you have ANY reason to doubt the authenticity of this message, contact IT before you open or click on anything.

Good afternoon,

I'm following up on the submittal of a Conceptual Project Review for the Enterprise BESS project, Case No. PL26-0099. Planning Services provided initial corrective actions to be addressed as part of our "Pre-screen" review for projects, prior to distribution on March 27, 2026. These comments are attached for your review.

An email was sent from our automated system to jboyer@mrpgenco.com on March 27, 2026, April 8, 2026, and April 13, 2026 requesting a response to these actions and none have been provided at this time. Please provide a response and the requested corrective actions for the conceptual project review, so that we may follow-up with the CPR inquiry.

Please feel free to reach out to me directly if you have any questions, comments, or concerns at this time.

Regards,



Alex Rangel
Associate Planner | Planning Services
Development Services | City of Escondido
760-839-4542
www.escondido.gov

From: Alex Rangel

Sent: Friday, March 27, 2026 9:20 AM

To: 'Jon Boyer' <jboyer@mrpgenco.com>

Cc: Douglas, Joseph@Energy <Joseph.Douglas@energy.ca.gov>; Dan Harmon <dharmon@mrpgenco.com>; Robert Ray <r-ray@patchservices.com>; Joshua Ihm <jihm@mrpgenco.com>; Veronica Morones <Veronica.Morones@escondido.gov>

Subject: RE: MRP Enterprise BESS Land Use Coordination (PL26-0099)

Good morning, Jon,

Thank you for the email notification. Correct – the City of Escondido requested to the California Energy Commission that the project go through the City's "Conceptual Project Review," to provide comments and considerations for the proposed project. Thank you for creating the case file – I will take a look at the submittal documents, and comment on items that might need addressing through our City's ProjectDox portal if any edits or considerations need to be made to the items provided.

I can also see you created a case number PL25-0098 for this same project – as this is a duplicate

item, I will have this case file voided in our system, and no further action will be required.

Let me know if I can provide any further assistance at this time.

Regards,



Alex Rangel
Associate Planner | Planning Services
Development Services | City of Escondido
760-839-4542
www.escondido.gov

From: Jon Boyer <jboyer@mrpgenco.com>

Sent: Thursday, March 26, 2026 4:45 PM

To: Alex Rangel <Alex.Rangel@escondido.gov>

Cc: Douglas, Joseph@Energy <Joseph.Douglas@energy.ca.gov>; Dan Harmon <dharmon@mrpgenco.com>; Robert Ray <r-ray@patchservices.com>; Joshua Ihm <jihm@mrpgenco.com>

Subject: MRP Enterprise BESS Land Use Coordination (PL26-0099)

Alex,

Hope you are doing well. My understanding is that the California Energy Commission has had some preliminary discussions with City of Escondido Planning Staff as part of their permitting review for the Enterprise BESS project subject to their review. They have asked us to consult with City staff directly with some land use questions as part of a data request from the CEC. Per CEC guidance, we have submitted a pre-application consultation request through the City's online portal (Case #25PL-0099). Attached is the submitted documents, including a preliminary site plan. As part of our consultation request, we have provided information on the project related to the questions raised in the CEC's Land Use Data request. Please review the attached, and let us know if you have any questions

Kind regards,

Jon Boyer

Director of Environmental, Health, and Safety | Middle River Power

C: 760-912-3007

jboyer@mrpgenco.com

www.middleriverpower.com