



City of Lindsay



DEPARTMENT OF CITY SERVICES

P.O. Box 369 — Lindsay, California 93247 — 150 North Mirage Ave.

559 • 562 • 7102 x 4

559 • 562 • 5748 tax

March 8, 2024

Hermosa Street/Westwood Avenue Roundabout Landscape Project – No. 1

Addendum/Clarification No. 2

The following additions and/or corrections shall become part of the Specifications for the subject project:

1. Q: What is the Engineer's Estimate for the project?

A: The engineer's estimate is \$160,000.00.

2. Q: Please identify the location of the known power source that will provide permanent electrical connection for the proposed irrigation controller.

A: Please see attached Civil Plans for reference (Addendum No. 2: Attachment #3). The existing power source is identified on the plans.

3. Q: The irrigation legend currently specifies a Hunter PED-SS pedestal, while the detail requires a Strong Box SB-16SS enclosure for the proposed irrigation controller; please advise which will be required for bidding purposes.

A: The Hunter IC-0600-PED-SS pedestal will be required for the bidding purposes of the project.

4. Q: Bid item #9 requires the installation of (6) ground level lights, conduit and connection to a power source. The drawings currently do not identify power source, conduit or locations, models/manufacturers for said item; please provide direction to properly bid this scope of work.

A: Please disregard Bid Item No. 9. This item will not be applicable for this project. Language associated with Bid Item No. 9 has been written in red and with a strikethrough. Please see Addendum No. 2: Attachment #2 which includes the entire *Section One, C. Bid Proposal*, page 5 of *Section Three. Special Conditions*, and pages 3-4 of *Section Four. Technical Provisions*.

5. Q: There are several existing boulders at the roundabout, are these to remain and be incorporated into the design or are these to be removed from the site as part of clear & grub operations?

A: The existing boulders are to remain at the roundabout and be incorporated into the design.

6. Q: In regards to the sleeving material are we to use existing sleeves, or are we installing new sleeves and a new lateral pipe in the sleeve from streets to the roundabout?

A: No. Please see attached Civil Plans for reference (Addendum No. 2: Attachment #3). All sleeves are in place.



7. Q: Can you verify the power to the controller to be installed, plans only state on sheet LI-1 to coordinate with the electric service provider. Can you include more details?

A: Please see attached Civil Plans for reference (Addendum No. 2: Attachment #3). The existing power source is identified on the plans.

8. Q: In regard to the encroachment permits needed, does the City have an existing encroachment plan in place?

A: The selected Contractor will have to fill out and send the Encroachment Permit to the City once the Notice to Proceed has been issued. There are no associated costs for the selected Contractor submitting the Encroachment Permit.

9. Q: As far as traffic control are we able to close down and reroute traffic or do we need flaggers on site guiding traffic?

A: The location of the project is located adjacent to a school on an arterial street within the City. There will need to be at a minimum, flaggers on site guiding traffic for traffic control. The selected Contractor may possibly be able to close down and reroute traffic shall they receive approval from both the City and the Lindsay Unified School District.

10. Q: Please confirm the type of decomposed granite material to be installed. The legend requires a 3/8" minus material at a 2" depth, while the specifications require a 1/4" minus material at a 3" depth; advise which will supersede.

A: The legend indicating 3/8" minus decomposed granite material at a 2" depth will supersede.

11. Q: Specifications refer to a tree staking detail but there is not such detail within the bid set, please provide so that we can include this as part of the proposal.

A: Please refer to the shrub planting detail.

12. Q: The irrigation plans indicate (pipe transition points) within areas of proposed synthetic turf. Please advise if this is an oversight or what the reason for having these transition points within artificial turf areas.

A: This is an oversight. There will not be any irrigation installed under any of the artificial turf areas.

13. Q: Sheet LI5 irrigation specifications require the installation of rectangular Carson valve boxes for proposed valves, details for master valve and flow sensor require concrete boxes, while details for gate valves and quick coupler valves indicate the use of 10" round plastic boxes. Please advise what the valve box requirements will be.

A: Please use Carson or approved equal products to meet the specifications on LI-3, Irrigation Detail 1 with regards to material, size, shape, locking mechanism, and stenciled marking on lid.

14. Q: There is notation on the irrigation drawings that indicates sleeves to be installed under roadway under sidewalks and per civil drawings. Advise if for this contract, we are to assume all sleeving required has been previously installed and to the requirements of this proposed contract.

A: Please see attached Civil Plans for reference (Addendum No. 2: Attachment #3). All sleeves are in place.

15. Q: The specifications indicate the requirement of low voltage wiring within conduit. Conduit is not shown on the drawings, please advise what type of conduit and specify the size of conduit to be used for installation of low voltage wiring.

A: This will not be applicable.

16. Q: The irrigation drawings indicate a ‘bowtie’ symbol which is typically indicative of a ball valve or gate valve. This symbol is not specified in the irrigation legend, please advise as to what size, model and manufacturer valve this is to be.

A: This would be an indication of a gate valve. This gate valve will need to be bronze. It is up to the selected Contractor to choose the manufacturer and model so long as the specified gate valve meets the above-mentioned requirement, corresponds with the line size, and is compatible with the system.

17. Q: The irrigation legend requires the installation of Hunter drip irrigation tubing while the detail refers to Rainbird drip irrigation tubing; please advise which is to be included for bidding purposes.

A: A Rainbird model is for the drip system valve with a 200 Mesh filter which is what supplies the Dripline Hunter PLD –06-18 (Refer to Addendum No. 2: Attachment #4). The Hunter product is a Professional Landscape Dripline (PLD) with a flow of 0.6 GPH Flow, with a spacing of 18” O. C as specified on LI-2 Irrigation Schedule (Refer to Addendum No. 2: Attachment #5). These are two different items.

18. Q: Is there an existing backflow device at the site?

A: There is an existing backflow device on site.

19. Changes to Quantity of Base Bid Item No. 8 – Artificial Turf

- There have been changes made to the quantity of artificial turf needed. The new quantity needed is around 5300 SF. The changes have been made to the Base Bid Schedule and are written in red. Please see Addendum No. 2: Attachment #2.

This completes the items included in this Addendum/Clarification No. 2 for the City of Lindsay, **Hermosa Street/Westwood Avenue Roundabout Landscape Project – No. 1**. This Addendum cover page shall be signed and submitted with bid proposal along with Addendum/Clarification No. 1.

Contractor

Date



Know what's below.
Call before you dig.
Contractor shall call
Underground Service Alert at
811 two working days prior
to excavation

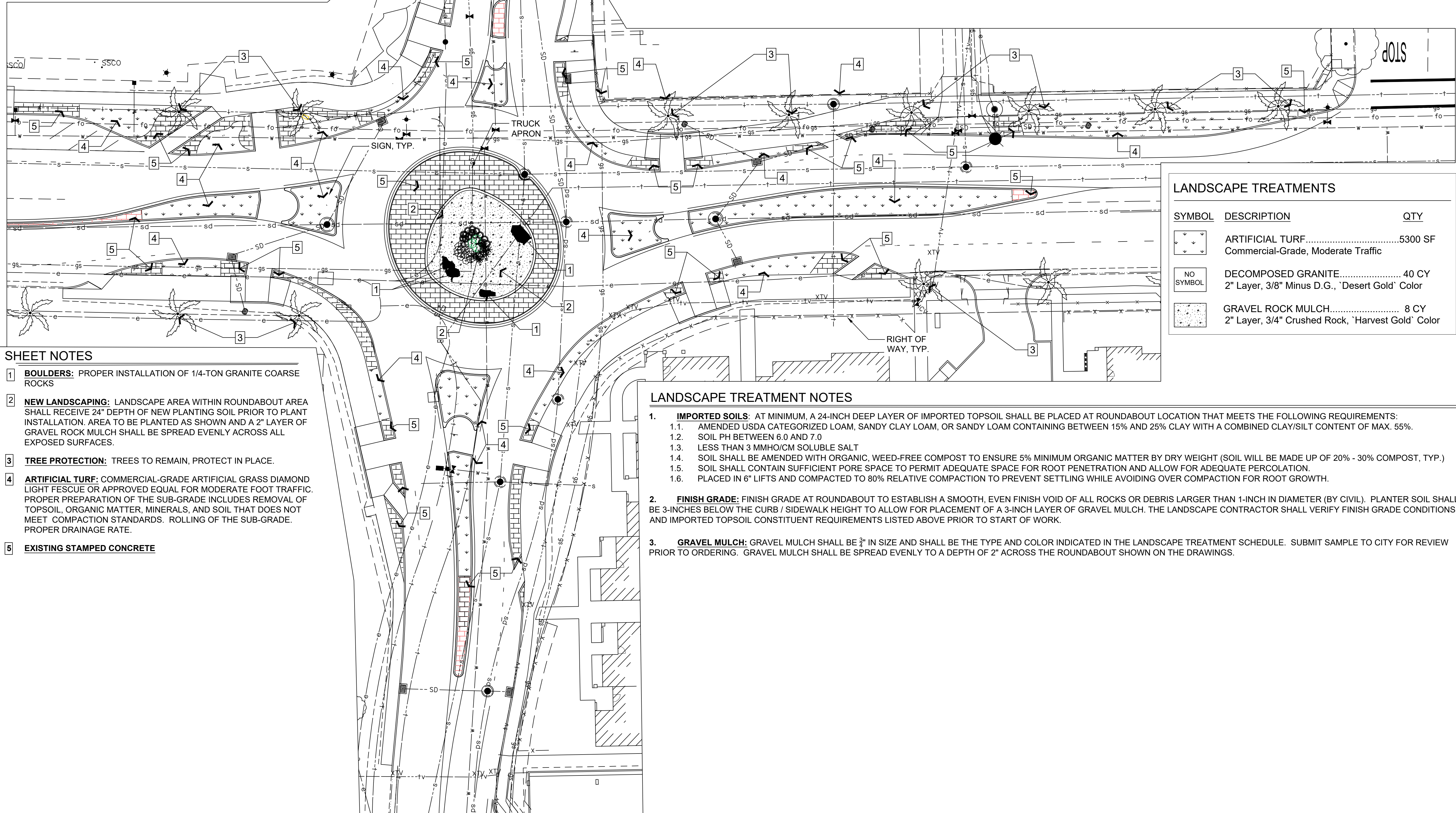


20 0 20
(IN FEET)
1 inch = 20' ft.

PLANT SCHEDULE

2024-01-29

PLANTS	BOTANICAL NAME	COMMON NAME	CONT	QTY
	Diets Iridioides WATER USE: LOW (0.2)	Fortnight Lily	5 gal	15
	Festuca Mairei WATER USE: LOW (0.2)	Atlas Fescue	5 gal	15
	Lantana x 'New Gold' WATER USE: LOW (0.2)	New Gold Lantana	1 gal	15
	Olea Europea 'Monher' WATER USE: LOW	Majestic Beauty Olive Tree	5 gal	3



LANDSCAPE TREATMENTS

SYMBOL	DESCRIPTION	QTY
	ARTIFICIAL TURF.....5300 SF Commercial-Grade, Moderate Traffic	
NO SYMBOL	DECOMPOSED GRANITE..... 40 CY 2" Layer, 3/8" Minus D.G., 'Desert Gold' Color	
	GRAVEL ROCK MULCH..... 8 CY 2" Layer, 3/4" Crushed Rock, 'Harvest Gold' Color	

SHEET NOTES

- 1 **BOULDERS:** PROPER INSTALLATION OF 1/4-TON GRANITE COARSE ROCKS
- 2 **NEW LANDSCAPING:** LANDSCAPE AREA WITHIN ROUNDABOUT AREA SHALL RECEIVE 24" DEPTH OF NEW PLANTING SOIL PRIOR TO PLANT INSTALLATION. AREA TO BE PLANTED AS SHOWN AND A 2" LAYER OF GRAVEL ROCK MULCH SHALL BE SPREAD EVENLY ACROSS ALL EXPOSED SURFACES.
- 3 **TREE PROTECTION:** TREES TO REMAIN, PROTECT IN PLACE.
- 4 **ARTIFICIAL TURF:** COMMERCIAL-GRADE ARTIFICIAL GRASS DIAMOND LIGHT FESCUE OR APPROVED EQUAL FOR MODERATE FOOT TRAFFIC. PROPER PREPARATION OF THE SUB-GRADE INCLUDES REMOVAL OF TOPSOIL, ORGANIC MATTER, MINERALS, AND SOIL THAT DOES NOT MEET COMPACTION STANDARDS. ROLLING OF THE SUB-GRADE. PROPER DRAINAGE RATE.
- 5 **EXISTING STAMPED CONCRETE**

LANDSCAPE TREATMENT NOTES

1. **IMPORTED SOILS:** AT MINIMUM, A 24-INCH DEEP LAYER OF IMPORTED TOPSOIL SHALL BE PLACED AT ROUNDABOUT LOCATION THAT MEETS THE FOLLOWING REQUIREMENTS:
 - 1.1. AMENDED USDA CATEGORIZED LOAM, SANDY CLAY LOAM, OR SANDY LOAM CONTAINING BETWEEN 15% AND 25% CLAY WITH A COMBINED CLAY/SILT CONTENT OF MAX. 55%.
 - 1.2. SOIL PH BETWEEN 6.0 AND 7.0
 - 1.3. LESS THAN 3 MMHO/CM SOLUBLE SALT
 - 1.4. SOIL SHALL BE AMENDED WITH ORGANIC, WEED-FREE COMPOST TO ENSURE 5% MINIMUM ORGANIC MATTER BY DRY WEIGHT (SOIL WILL BE MADE UP OF 20% - 30% COMPOST, TYP.)
 - 1.5. SOIL SHALL CONTAIN SUFFICIENT PORE SPACE TO PERMIT ADEQUATE SPACE FOR ROOT PENETRATION AND ALLOW FOR ADEQUATE PERCOLATION.
 - 1.6. PLACED IN 6" LIFTS AND COMPACTED TO 80% RELATIVE COMPACTION TO PREVENT SETTLING WHILE AVOIDING OVER COMPACTION FOR ROOT GROWTH.
2. **FINISH GRADE:** FINISH GRADE AT ROUNDABOUT TO ESTABLISH A SMOOTH, EVEN FINISH VOID OF ALL ROCKS OR DEBRIS LARGER THAN 1-INCH IN DIAMETER (BY CIVIL). PLANTER SOIL SHALL BE 3-INCHES BELOW THE CURB / SIDEWALK HEIGHT TO ALLOW FOR PLACEMENT OF A 3-INCH LAYER OF GRAVEL MULCH. THE LANDSCAPE CONTRACTOR SHALL VERIFY FINISH GRADE CONDITIONS AND IMPORTED TOPSOIL CONSTITUENT REQUIREMENTS LISTED ABOVE PRIOR TO START OF WORK.
3. **GRAVEL MULCH:** GRAVEL MULCH SHALL BE 3/4" IN SIZE AND SHALL BE THE TYPE AND COLOR INDICATED IN THE LANDSCAPE TREATMENT SCHEDULE. SUBMIT SAMPLE TO CITY FOR REVIEW PRIOR TO ORDERING. GRAVEL MULCH SHALL BE SPREAD EVENLY TO A DEPTH OF 2" ACROSS THE ROUNDABOUT SHOWN ON THE DRAWINGS.

NO.	REVISION	DATE	BY
1		10/06/20	EG
2	Addendum No. 2: Attachment #1	03/09/24	

Original work by
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susan
matt
sally
sally

PLANTING PLAN
HERMOSA STREET/WESTWOOD AVENUE
ROUNDABOUT LANDSCAPE PROJECT - NO. 1
CITY OF LINDSAY

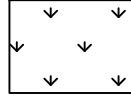
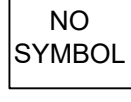
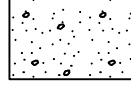
LINDSAY
CALIFORNIA

SCALE	1"=20'
JOB NO.	CS21-1
DESIGNED	LRP
DRAWN	LRP
FILE	LRP
UPDATED	EH
DATE	01/29/2024

PLANT SCHEDULE 2024-01-29

PLANTS	BOTANICAL NAME	COMMON NAME	CONT	QTY
	Dietes Iridioides WATER USE: LOW (0.2)	Fortnight Lily	5 gal	15
	Festuca Mairei WATER USE: LOW (0.2)	Atlas Fescue	5 gal	15
	Lantana x 'New Gold' WATER USE: LOW (0.2)	New Gold Lantana	1 gal	15
	Olea Europea 'Monher' WATER USE: LOW	Majestic Beauty Olive Tree	5 gal	3

MULCH SCHEDULE

SYMBOL	DESCRIPTION	QTY
	ARTIFICIAL TURF.....5300 SF Commercial-Grade, Moderate Traffic	
	DECOMPOSED GRANITE..... 40 CY 2" Layer, 3/8" Minus D.G., 'Desert Gold' Color	
	GRAVEL ROCK MULCH..... 8 CY 2" Layer, 3/4" Crushed Rock, 'Harvest Gold' Color	

MULCH TYPE AND COLOR EXAMPLES (Provide samples prior to order)



GRAVEL ROCK MULCH



DECOMPOSED GRANITE

GENERAL PLANTING NOTES

- QUANTITIES:** THE PLANT QUANTITIES ARE PROVIDED FOR THE CONVENIENCE OF THE OWNER. THE CONTRACTOR SHALL VERIFY ALL PLANT COUNTS LISTED AND SHOWN ON PLANS. IF A DISCREPANCY EXISTS, THE PLANS SHALL GOVERN. NOTIFY THE CITY/LANDSCAPE ARCHITECT IF MATERIALS ARE NOT AVAILABLE AS SPECIFIED. ALL SUBSTITUTIONS ARE SUBJECT TO THE WRITTEN APPROVAL OF THE CITY/LANDSCAPE ARCHITECT.
- PRE-EMERGENT:** A PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL LANDSCAPED AREAS BEFORE APPLYING SURFACE MULCH. THE LANDSCAPE CONTRACTOR SHALL OBTAIN A PEST CONTROL ADVISOR (PCA) WRITTEN RECOMMENDATION PRIOR TO APPLICATION. ALL HERBICIDES SHALL BE APPLIED BY A QUALIFIED APPLICATOR.
- PLANT LOCATIONS AND SPACING:** THE PLANT LOCATIONS SHOWN IN PLANS ARE NOT MEANT TO BE SPECIFIC. THE CITY WILL CONFER WITH THE CONTRACTOR PRIOR TO ANY LANDSCAPE WORK AND AGREE ON THE PROPER LOCATION AND THE NUMBER OF PLANTS TO PLACE IN THE CENTRAL ISLAND OF THE ROUNDABOUT. PRIOR TO THE PURCHASE OF THE PLANTS, THE CONTRACTOR SHALL PROVIDE THE NAME AND LOCATION OF THE SUPPLIER AND SHALL PROVIDE A REPRESENTATIVE SAMPLE FOR THE CITY TO REVIEW AND APPROVE.
- INERT MATERIAL:** SEE PLANTING PLAN SHEET LP1 FOR INERT MATERIAL (COBBLE, GRAVEL, AND DECOMPOSED GRANITE MULCH) PLACEMENT LOCATIONS, MATERIAL REQUIREMENTS, AND INSTALLATION. REFER TO THIS SHEET FOR EXAMPLES OF MULCH TYPE AND COLOR.
- INERT MATERIAL LAYOUT:** THE LAYOUT OF THE INERT MATERIAL IS APPROXIMATE. EVERY EFFORT SHOULD BE TAKEN TO STAKE / MARK BOUNDARIES OF DIFFERENT COBBLE ROCK, GRAVEL ROCK, AND DECOMPOSED GRANITE MULCH IN THE FIELD AS CLOSE TO THE LOCATIONS SHOWN ON THE PLANS. MARKED BOUNDARIES SHALL BE APPROVED BY THE CITY / LANDSCAPE ARCHITECT TO VERIFY CORRECT LAYOUT AND SPACING OF MATERIAL AND BOUNDARIES.
- SITE MAINTENANCE:** THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE SITE AND THE ASSOCIATED STREETS CLEAN AND FREE FROM RUBBISH AND DEBRIS. THE CONTRACTOR SHALL ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING, AND SPRINKLING WITH WATER, OR OTHER MEANS AS NECESSARY. THE USE OF WATER RESULTING IN MUD ON PUBLIC STREETS WILL NOT BE PERMITTED AS A SUBSTITUTE FOR SWEEPING OR OTHER METHODS.
- NOTICE:** 48 HOUR NOTICE SHALL BE GIVEN BY THE CONTRACTOR WHERE APPROVAL OF THE CITY / LANDSCAPE ARCHITECT IS REQUIRED IN THE FIELD.
- SPECIFICATIONS AND DETAILS:** REFER TO THESE DRAWINGS FOR ADDITIONAL PLANTING SPECIFICATIONS AND DETAILS. SEE PLANT DETAIL SHEET LP3 AND PLANTING SPECIFICATIONS SHEET LP4.

NO.	REVISION	DATE	BY
1	Addendum No. 2: Attachment #1	10/06/20	EC
2		03/08/24	

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Omnimeans

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PLANTING NOTES AND SCHEDULE
HERMOSA STREET/WESTWOOD AVENUE
ROUNDABOUT LANDSCAPE PROJECT - NO. 1
CITY OF LINDSAY

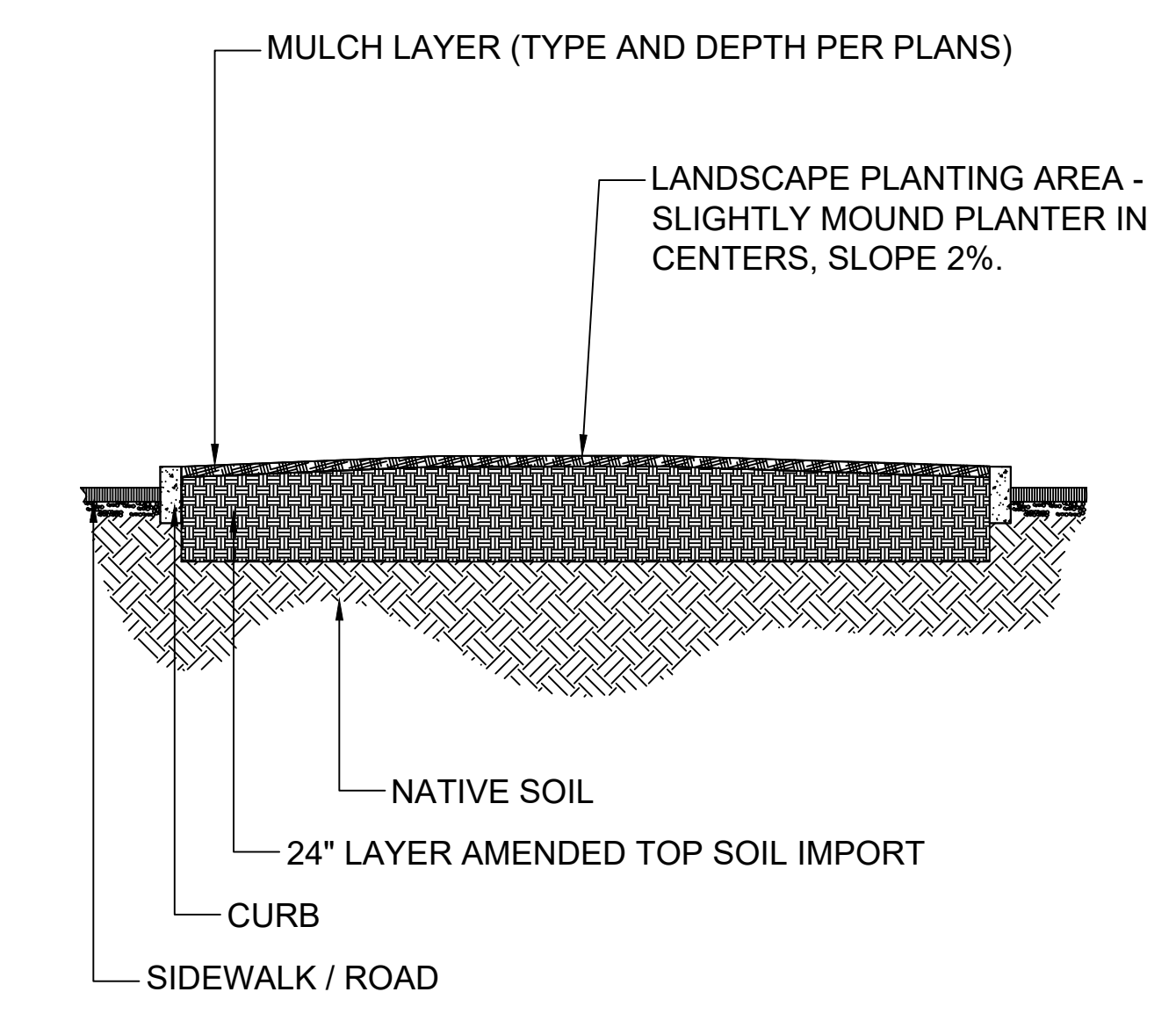
LINDSAY
CALIFORNIA

SCALE	AS SHOWN
JOB NO.	CS21-1
DESIGNED	LRP
DRAWN	LRP
FILE	
UPDATED	EH
DATE	01/29/2024

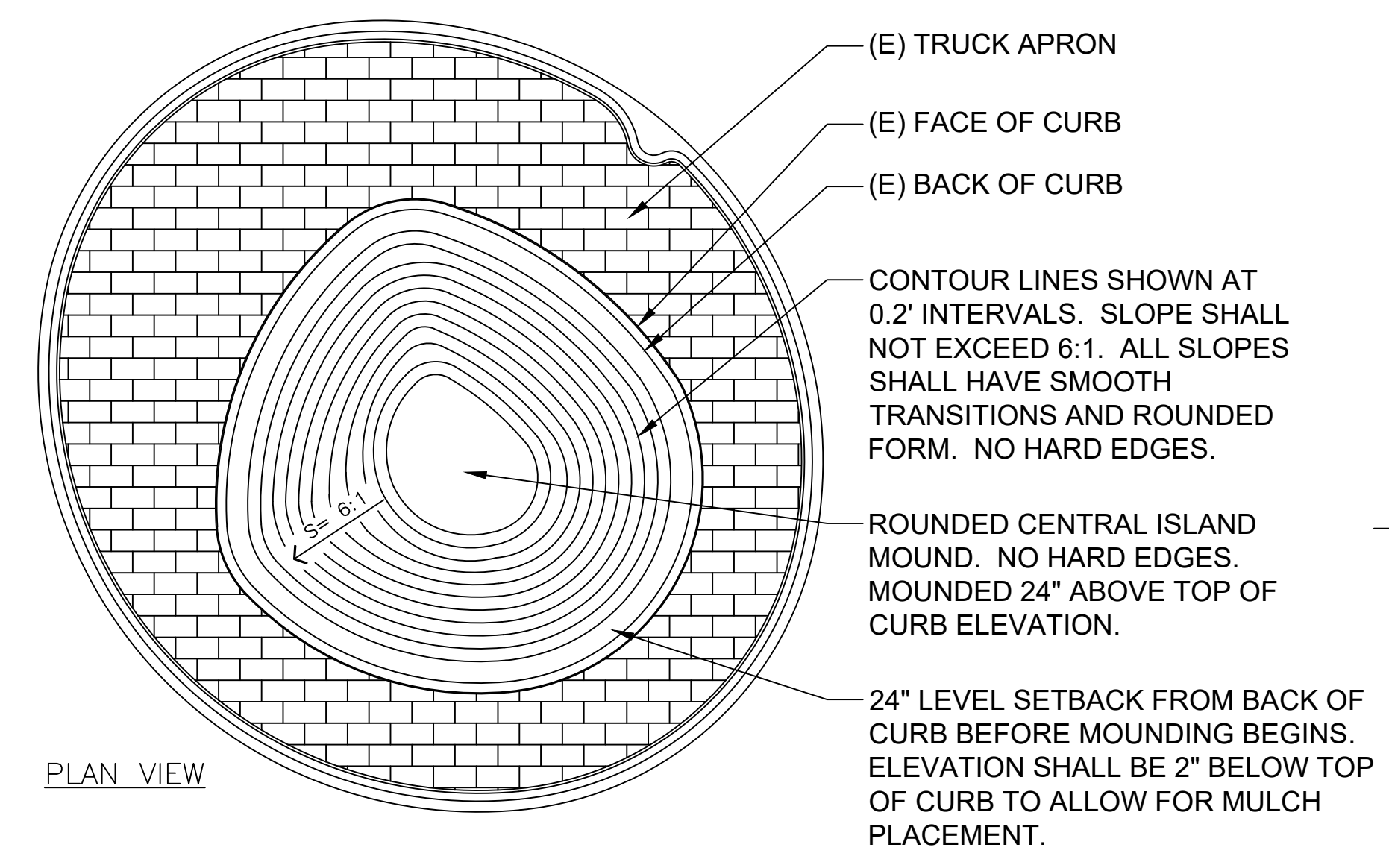
LP2

RUC-C-2024-01-29 REVISED: 01-06-20

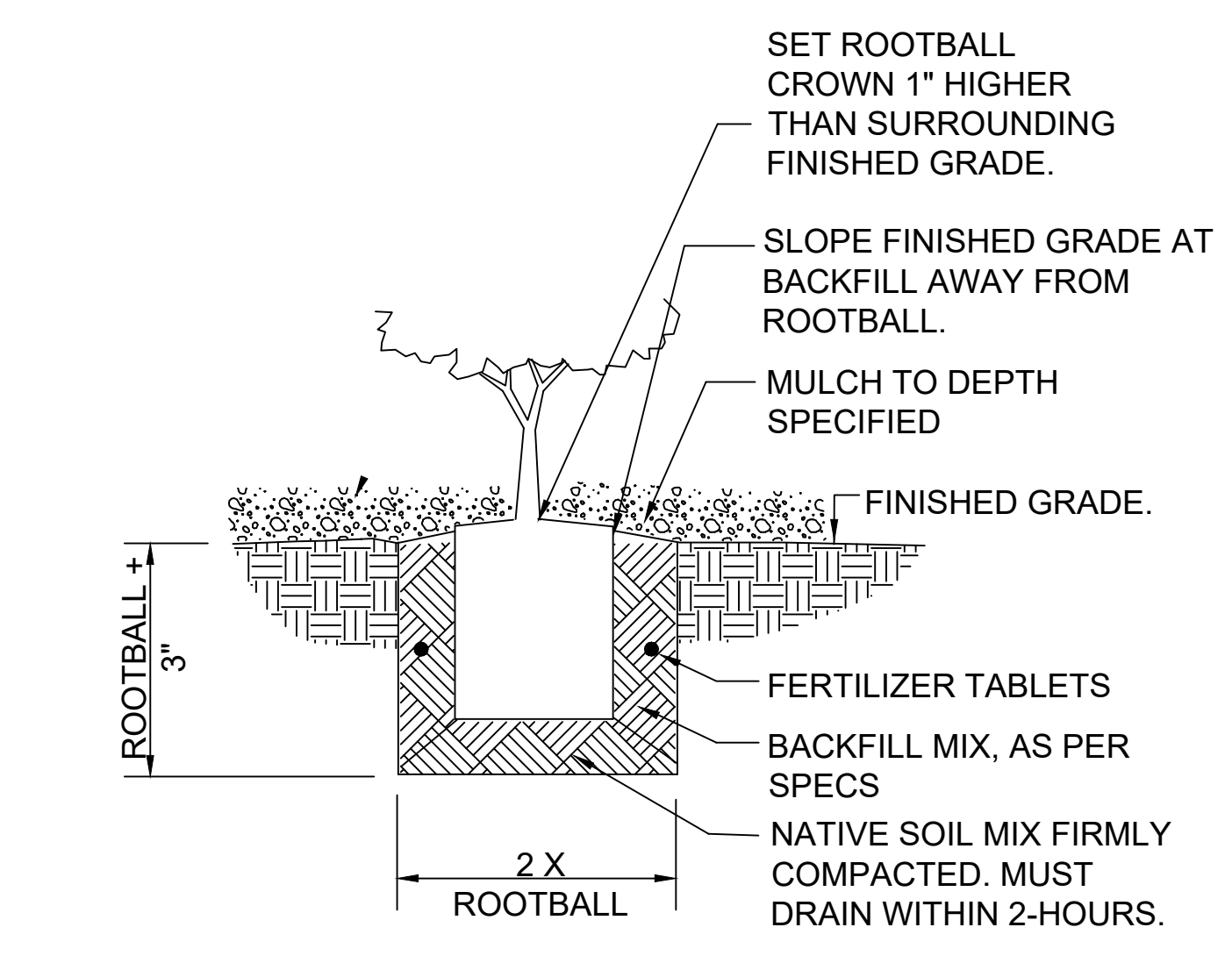
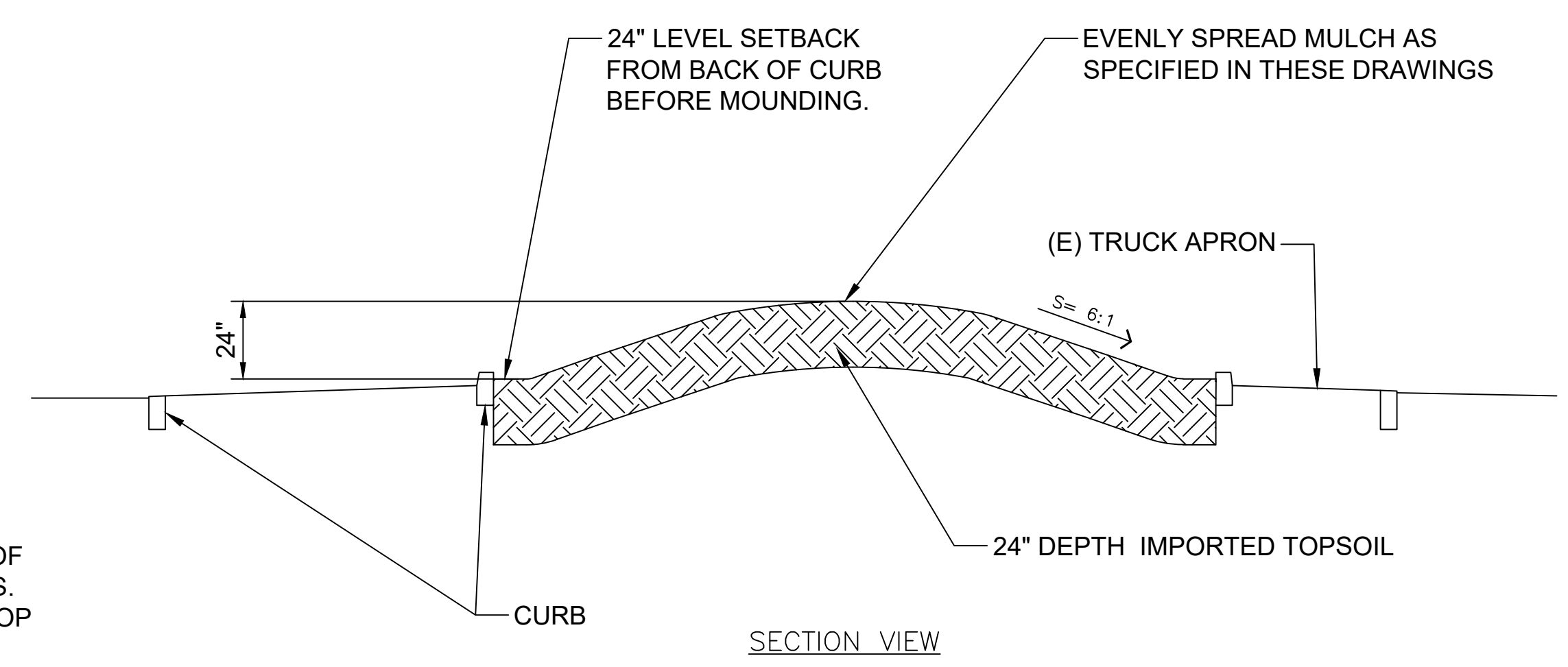
NO.	REVISION	DATE	BY
1		10/06/20	EC
2	Addendum No. 2: Attachment #1	03/08/24	



1 IMPORTED SOIL BACKFILL FOR PLANTERS
1/4" = 1'-0" P-HE-03



2 CENTRAL ISLAND MOUND CONTOURING
N.T.S.



2 SHRUB PLANTING
1" = 1'-0"

Original work by
Omnimeans

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LANDSCAPE ARCHITECTS
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PLANTING DETAILS
HERMOSA STREET/WESTWOOD AVENUE
ROUNDAABOUT LANDSCAPE PROJECT - NO. 1
CITY OF LINDSAY

LINDSAY
CALIFORNIA

SCALE	AS SHOWN
JOB NO.	CS21-1
DESIGNED	LRP
DRAWN	LRP
FILE	
UPDATED	EH
DATE	01/29/2024

REC-C-250419MS REVISED: 10-06-20

PLANTING

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. The work included under this Section consists of providing all necessary soil preparation and amending, finish on fine grading, furnishing and planting of all trees, shrubs, and ground cover, application of pre-emergent herbicide, mulching, maintenance, and all other materials, labor, and equipment required to complete the work indicated on the Planting Plans.

1.02 RELATED SECTIONS:

A. Section – Irrigation System: Provision of automatic irrigation system.

1.03 QUALITY ASSURANCE

A. Alternates: Verify whether alternates as specified affect the work of this Section.
B. Contractor is to provide the Owner's Representative with copies of all Project material invoices and retain all empty material containers for count.
C. The Contractor shall furnish, without any extra charge, any additional material and labor when required by the compliance on these Specifications and Drawings.
D. The Contractor shall erect and maintain barricades, guards, warning signs, and lights as necessary or required for the protection of the work, the workmen, and public.
E. Any existing buildings equipment, piping, sewers, sidewalks, landscaping or other Site improvements damaged by the Contractor during the course of his work shall be replaced or repaired by the Contractor in a manner satisfactory to the Engineer and at the Contractor's own expense, and before the final payment is made.
F. Contractor shall obtain and pay all fees, licenses, and permits required for this portion of the Project work.
G. Before making bid, examine the Site carefully, verifying dimensions and other Site conditions in relation to the Plans. The Contractor is responsible for informing himself of all conditions under which work is to be done before submitting his Bid.
H. When conditions detrimental to planting of trees, shrubs, and ground cover are encountered notify Owner's Representative before proceeding with work.
I. Contractor to verify quantities shown in the Plant List to assure conformance with Landscape Drawings. Bring any discrepancies to the attention of the Owner's Representative.
J. For standard products, the manufacturer's analysis guarantee will be accepted. For all other materials, analysis will be a recognized laboratory as required by the Owner's Representative.
K. All plants shall be true to type and name in accordance with the current edition of Standardized Plant Names, Second Edition, and of size and caliper as shown in the Plant List.
L. Provide trees, shrubs, and other plants of size, genus, species and variety shown on Project Plant List and complying with recommendations and requirements of ANSI-Z60.1-90 American Standard for Nursery Stock.
M. Plantings shall be performed by personnel familiar with planting procedures and under the supervision of a qualified planting foreman. The planting foreman shall be on the job Site whenever planting is in progress.
N. No extra work shall be done without prior written approval of the Owner's Representative.
O. Contractor shall coordinate his work with that of any other Contractors working in, and adjacent to, the areas included in the Project work, and coordinate with these Contractors in performance of this work.
P. All work shall be in strict accordance with sound horticultural practice and shall include maintenance and watering of all materials installed in the Contract until final acceptance by the Owner's Representative.
Q. Keep the job Site free from accumulations of waste material or rubbish resulting from this work. At the completion of the work, the Contractor shall remove all rubbish tools, and surplus materials, and shall leave the completed project neat and orderly.

1.04 JOB CONDITIONS

A. Proceed with and complete planting work as rapidly as portions of Site become available, working with seasonal limitations.
B. Determine locations of underground utilities and perform work in a manner which will avoid possible damage. Hand excavate, as required.
C. Maintain grade stakes set by other until removal is mutually agreed on by parties concerned.
D. Contractor shall verify the extent that the Project engineered fill extends into the planting areas. Where the engineered fill material is in conflict with sound horticultural practice, the contractor is to confer with the Owner's Representative to ascertain to what extent the engineered fill, in the planting areas, can be removed. The Landscape Contractor will be responsible for the removal of whatever engineered fill that is a problem and is agreed to by the Owner's Representative.
E. Before making bid, examine the Site carefully, verifying dimensions and other Site conditions in relation to the Plans. The Contractor is responsible for informing himself of all conditions under which work is to be done before submitting his bid.

PART 2 – PRODUCTS

2.01 TREES, SHRUBS, AND GROUND COVER

A. Plant materials shall be supplied in sizes as indicated in the Plant List. Container stock shall be well established in the container and the roots shall not have grown beyond the limits of the container, nor shall they be root bound. All plants shall have normal or average branching systems and shall be first class representatives of their species in the appearance of healthy, vigorous growth. Plants shall be free of pests and disease and disfiguring injury. Trees shall be select and choice material, with symmetrical and full rounded heads appropriate for the species.
B. All plant materials delivered to the Site must conform to the Specifications of Federal, State and County laws, requiring inspection for plant diseases and insect infestations. Any inspection certificates required by law must accompany each shipment when plant materials arrive at the Site.
C. Plants delivered to the Site shall be adequately protected from the sun and wind during delivery and then stockpiled on the Site prior to planting. They shall be watered adequately. Containers shall be free of weeds or grasses.
D. Substitutions are not permitted except on proof that plant specified is not available. Request for substitution must be made in writing to the Landscape Architect. No additional charge shall be made for substitutions except by the written authorization of the Landscape Architect.
E. The City shall be notified in writing, one week prior to planting, to inspect all or major portions of the plant materials to be used in the Project, if requested by the City or Architect.
F. The Owner's Representative shall be the final arbitrator in decisions regarding identification and nomenclature.
G. The Owner's Representative shall have the right to reject plants prior to and during the progress of work for size, conditions of top structure, conditions of root structure, defects or injuries or nonconformity to Specifications.

2.02 SOIL AMENDMENTS

A. Fir Bark soil amendment:
1. Physical properties: 0 inches to 1/4 inches
2. Source: Fir or Pine bark
3. Nitrogen content (dry weight basis): minimum 0.5%
4. Dry bulk density: 450-580 #/ cubic yards
5. Iron content (dry weight basis): minimum 0.08% dilute acid soluble iron
6. Salinity (ECe) maximum 4.0 millimhos l centimeter @ 25 degrees C.
7. Organic content: Minimum 90% of dry weight by ash method
8. Reaction (ph) minimum 4.0
B. Pelletized fertilizer 6-20-20
C. Soil Sulfur
D. Dolomite Lime

2.03 FERTILIZERS

A. Agriform planting tables, as manufactured by Sierra Chemical. 21 gram size with 20-10-5 analysis.
B. Commercial fertilizer, as manufactured by Best Fertilizer Co. with a 16-6-8 + iron analysis.

2.04 EXISTING TOPSOIL

A. It will be the Landscape Contractor's responsibility to provide all labor and equipment to remove all site topsoil spoils and dig-out as may be required to complete the finish the fine grading work.

2.05 TREE STAKES, TIES and ROOT BARRIERS

A. Tree stakes shall be 2 inches diameter x 8 feet long, treated lodge pole stakes, free from knots and splits.
B. Tree ties shall be "Cinch-Ties", length as required, as manufactured by V.I.T. Products, Inc. or equal.
C. All trees planted within 4' of paving, buildings, walls, and/or utility equipment shall receive high impact root barriers

per detail this plan set.

2.06 PRE-EMERGENT HERBICIDE(S)

A. The pre-emergent herbicide is to be one that has proven successful in the local area, is recommended by a license Pest Control Advisor and has the approval of the Owner's Representative.

2.07 FIR BARK MULCH

A. Bark mulch shall be wood residual derived and manufactured from Pine, White and/or Red Fir Tree bark. The material shall be equal to that referred to as 'Walk on Bark' in the trade.
B. Install 3" depth fir bark mulch at all locations identified on the plans.

2.08 DECOMPOSED GRANITE AND GRAVEL ROCK MULCH

A. Decomposed granite is to be 1/4" inch minus size placed at a minimum depth of 3". Install at locations and extents shown on the plans. Type and color shall be same as indicated on the plans.
B. Gravel is to be 3/4" minus size. install to a minimum depth of 2". install at locations and extents shown on the plans. Type and color shall be the same as indicated on the plans.
D. Provide samples for each material type for approval of the owner's representative.

2.09 COBBLE ROCK MULCH

A. Cobble rock is to be 4"-8" inch size placed as a single layer spread evenly without void larger than 1" in any direction. Install at locations and extents shown on the plans. Type and color shall be same as indicated on the plans.
B. Provide samples for each material type for approval of the owner's representative.

PART 3 – EXECUTION

3.01 SOIL PREPARATION AND AMENDING

A. Thoroughly cultivate all planting areas to a depth of eight (8) inches.
B. Rough finish grade all areas.
C. Broadcast soil amendments in accordance with the recommendations from the soil management report.
D. Cultivate and thoroughly incorporate the amendments into the top eight (8) inches of soil.
E. De-rock area to be planted by using a mechanical rock picker. All rocks larger than 1-inch in diameter are to be removed.

3.02 FINISH GRADING

A. Fine grade areas to a smooth even surface, with loose uniform texture. Rake and drag areas to remove ridges and fill depressions as required to meet finish grades. Limit fine grading to areas which can be planted immediately after grading.
B. The finish grade of all shrubs and/or ground cover planting areas is to be 3 inches below the top of all adjacent concrete walks, curbs, and asphalt paving.
C. Remove all debris, exposed rocks, and compacted soil clods 1 inch in diameter or larger, from all planting areas. Use a mechanical rock picker for this work. All finish grades shall be subject to the approval of the Engineer.

3.03 PLANTING OF TREES AND SHRUBS

A. The planting work shall be deferred until earthwork, construction, irrigation, soil preparation and finish grading work has been completed.
B. No planting shall occur during unfavorable weather conditions or when the soil is excessively wet, as determined by the Owner's Representative.
C. Stake or spot all plant locations, as shown on the Planting Plans. Obtain approval of plant locations, by the Owner's Representative or Landscape Architect, prior to commencement of planting.
D. Planting Procedure:
1. Excavate plant holes to the dimensions indicated on Planting Plans. Refer to Planting Details. Planting areas are not to be over compacted after cultivation shall be free of deleterious material, including construction debris, rocks sticks and dirt clods larger than 1-inch. Scarify all plant hole sides. Plant hole back fill mix shall consist of pulverized native soil free of roots, sticks, and stones larger than 1-inch in diameter, mixed with 1-CY of compost.
2. Excavated pits (2-times the container size) shall have positive drainage within 2-hours when fully flooded with water. Contractor to demonstrate to Owner's Representative that plant holes drain in 2-hours before planting may commence. Contractor shall correct deficient drainage utilizing drilled drain holes filled with 3/4" drain rock. Depth of drain holes as needed.
3. Add and firm backfill soil to bring the plant root ball to the proper planting elevation. The backfill soil is to consist of the excavated site topsoil with all rocks larger than 1 inch diameter removed from backfill soil. Use unconditioned site topsoil for backfill below the 8 inch depth which has been limed by premixing one (1) cubic yard of site topsoil with organic compost.
4. All plant material is to be removed from containers by approved methods. Loosen the bottom and sides of the exposed root ball and unwind or cut any circling roots. Protect root ball from the drying effects of sun and wind.
5. Place plant in the center of the excavation and adjust root ball elevation so that top of root ball is one (1) inch above the level of the surrounding soil grade.
6. Complete the backfilling of the root ball with light tamping as the backfill soil is placed.
7. Add 21-gram size Agriform (20-10-5) planting tablets to the backfill of all plant material. Reference planting details on plan. Plant Container Size #1, #2, #5, #15, 24-inch box: 1, 2, 3, 5, 5, tablets required respectively.
8. Construct a water retention basin around each plan, 4" high for trees and 3" high for shrubs. Water newly installed plant immediately / thoroughly to settle the backfill soil. Add backfill as required by settling.
9. After planting is complete, spread wood mulch to a minimum depth of 3-inches. Wood mulch shall be aged nitrogen fortified redwood, cedar, or fir woods chips and bark, three-inch (3") minus in size, and shall contain a minimum of one percent (1%) available nitrogen. Contractor shall submit a sample of the bark mulch to the Owner and Landscape Architect for review and approval.

3.04 TREE STAKING AND GRASS-FREE AREA

A. All trees are to be staked as per the Tree Staking Details occurring on the Planting Plans.
B. Care is to be exercised to maintain tree stakes in the proper horizontal alignment, and vertically to be set plumb.
C. Leave a 24 inch diameter grass-free circle around tree trunks occurring in grass areas. Cover over with a 3" depth layer of bark mulch.

3.05 PLANT MATERIAL GUARANTEE

A. The Contractor shall guarantee all plant material from latent defects, disease or death, and injury for a period of twelve (12) months after final acceptance of the total Project by the Owner's Representative.
B. The Contractor shall promptly replace, at no additional cost, plants that are not in a vigorous, healthy, growing condition. Replacement shall be of the same kind and size as originally specified and shall be planted as described on the Planting Plans and in these Specifications.
C. This guarantee does not include plant loss, due to physical damage or neglect during normal maintenance, by others, subsequent to the end of the project contract maintenance period.

3.06 OBSERVATION AND ACCEPTANCE

A. After all plants have been installed, the Owner's Representative will make a preliminary observation.
1. Upon preliminary observation and approval of the work, a ninety (90) day calendar day maintenance period will begin.
2. If any plants or work are not approved, immediate replacement and/or repair will be made and regular maintenance then continued for ninety (90) days after replacement.
B. Final observation will be made at the end of the ninety (90) day maintenance period.
C. Submit written notice requesting this observation at least one week in advance.
1. Plant basins shall be repaired, all plantings given a final watering, and the job cleared of all weeds and debris and presented in a neat and orderly fashion.
2. The work, exclusive of the replacement of plant materials, shall be accepted by the Owner's Representative upon completion of the ninety (90) day maintenance period and upon written approval of the work by the Owner's

Representative.

3. Clean paved areas by sweeping and/or washing. Remove any defacement or stains caused by work of this Section.
4. Remove construction equipment, excess materials, tools, debris, and rubbish.
5. Repair any existing property damaged or areas altered due to work of the landscape planting.

3.07 INSTRUCTIONS TO THE OWNER

A. Full and complete typewritten instructions for long term maintenance of the landscaping are to be furnished to the Owner's Representative at least 10 days prior to the end of the Contractor's maintenance period. The Owner may retain final payment if this item is not completed.

3.08 GENERAL CLEAN-UP

A. During the process of the work, the Site shall be kept in a reasonably neat and clean condition, free from the accumulation of cans, surplus materials, and waste materials.
B. Upon completion of the work, remove all equipment, dispose of all waste, refuse, or debris resulting from this work, and leave the premises in a neat and clean condition.
C. All planting areas shall be neatly dressed and finished and all walks, paved areas, curbs, and gutters flushed clean to the satisfaction of the Owner's Representative.

3.09 PLANTING MAINTENANCE

A. Provide all necessary maintenance during specified maintenance period, including but not limited to, watering, weeding, replanting, fertilizing, treatment of diseases and pests, and protection from rodents, and people encroachment.
1. Check all tree ties and adjust if too tight or too loose. Remove all nursery stakes and ties.
2. Provide supplementary deep watering for trees at one month intervals during maintenance period, using a slowly trickling water hose. Fill planting basins, let water soak in, and refill.
3. Replace any plants not in a healthy and thriving condition
4. Arrange watering schedule to avoid wetting of foliage when exposed to hot sunlight.
5. Keep planting basins in good repair and free of weeds.
6. Plants blown over shall be replanted and re-staked, or replaced if damaged.
7. Protect all plants against damage from any source. Treat or replace all damaged trees during the maintenance period.
8. Re-set any plants where root crowns have settled below adjacent finish grade or where tree trunks are leaning from vertical position.
9. Prune only to remove broken twigs, unbalanced branching conditions or suckers.
10. At conclusion of maintenance period, re-surface planting beds as needed with a fresh layer of mulch to maintain the required depth.

PART 4- CLOSEOUT PROCEDURES

4.1 DESCRIPTION

A. The work includes, but is not necessarily limited to, performing all operations necessary for and properly incidental to closing out the project and assisting in Owner's final inspection as hereinafter specified.

4.2 FINAL COMPLETION

A. When the Contractor considers the work or a designated portion of the work complete, submit written request to Owner's Representative for inspection. By submittal of request, Contractor certifies that:
1. Contract Documents have been reviewed.
2. Work has been completed in accordance with the Contract Documents and is ready for inspection.
3. Equipment systems have been tested, adjusted, balanced and is fully operational.
B. Submit request for review a minimum of five (5) working days in advance of requested inspection date. Contractor shall be responsible for allowing sufficient time during contract period to complete inspection and any correction.
C. Should Owner's Representative inspection find work incomplete, Owner's Representative will notify Contractor in writing, listing observed deficiencies.
D. Contractor shall remedy listed deficiencies and sent a request for final inspection. At the Owner's option, a re-inspection(s) of the work to identify additional deficiencies, if any, may be required. Owner's costs associated with re-inspection(s) are subject to provisions of Article 4.04 of this Section.
E. When Owners confirm work is complete, and close-out submittals as referred to in Article 1.04 of this Section are provided, Owner's Representative will notify Contractor of date of completion in writing.

4.3 RE-INSPECTIONS

A. Should status of completion of work require re-inspection(s) by Owner due to failure of work to comply with Contractor's claim on initial inspection, Owner may deduct the amount of compensation for re-inspection services from final payment to Contractor. Observed deficiencies in excess of ten (10) will be reason for re-inspection.
B. Inspection initiated at the request of the Owner will not be subjected to the provisions of this Article.

4.4 CLOSE-OUT SUBMITTALS

A. Project Record Documents
B. Operation and Maintenance Data
C. Warranties and Guarantees
D. Spare Parts and Maintenance Materials
E. Evidence of Payment and Lien Releases along with a list of all subcontractors which contributed labor or materials to the project.
F. Other data and material as may be required in individual Sections of the Specifications.

4.5 APPLICATION FOR FINAL PAYMENT

A. Submit application for final payment in accordance with provisions of the contract for Construction.

Inspection Schedule

The Owner's representative or Landscape Architect (if requested by the Owner) shall accomplish the following inspections in concert with the Project Coordinator, and the Landscape Contractor. Call at least 48 hours in advance of the requested inspection:

- A. Pre-Landscape Construction Meeting with Owner's / Landscape Architect, Landscape Contractor and Construction Site Supervisor
- B. Owner's representative or Landscape Architect planting inspections:
 - 1. Irrigation System Layout and Coverage Inspection
 - 2. Irrigation Mainline and Lateral Pressure Check Layout inspection or deviation from
 - 3. Irrigation system as per plans
 - 4. Installation inspection of main lines
 - 5. Installation inspection of laterals and non-pressure system trenches
- C. Owner's representative or Landscape Architect planting inspections:
 - 1. Review/approve amendments
 - 2. Soil preparation
 - 3. Finish grade verification
 - 4. Plant material quality
 - 5. Layout in conformance with Project plans/specification
- D. Owner's representative or Landscape Architect post-construction inspection:
 - 1. Final Landscape Improvements Inspection and approval
- E. Commencement of Maintenance Period with letter of approval from the Owner's representative. All punch list items from previous inspection must be complete
- F. Requests for progress payments must include approved inspection reports authorized by the Owner's representative.

END OF SECTION.

NO.	DATE	REVISION
1	10/06/20	EG
2	03/08/24	Attachment #1

Original work by
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PLANTING SPECIFICATIONS
HERMOSA STREET/WESTWOOD AVENUE
ROUNDAABOUT LANDSCAPE PROJECT - NO. 1
CITY OF LINDSAY

SCALE	AS SHOWN
JOB NO.	CS21-1
DESIGNED	LRP
DRAWN	LRP
FILE	
UPDATED	EH
DATE	01/29/2024

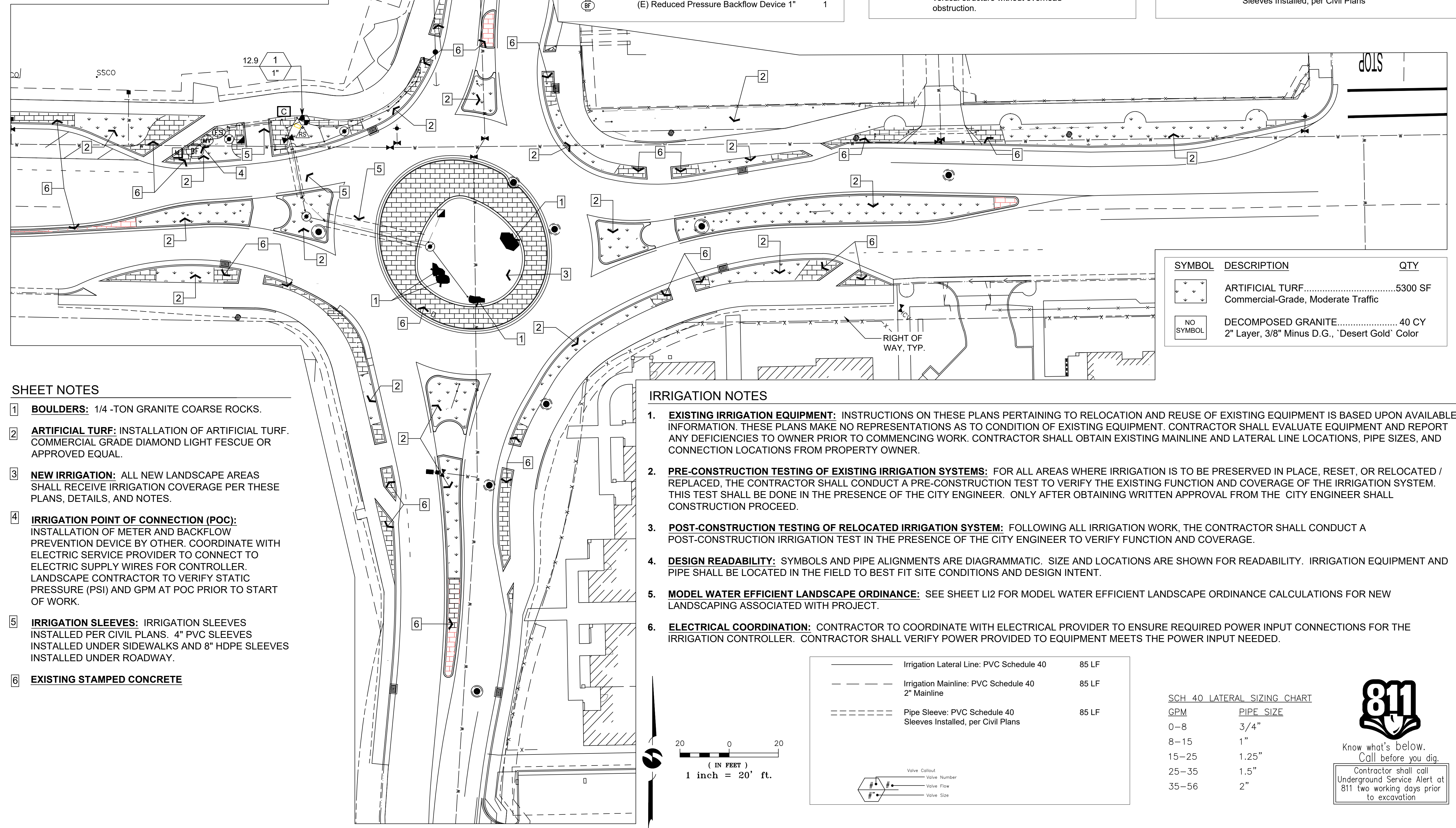
LP4

SYMBOL	MANUFACTURER/MODEL/QTY
	Pipe transition point - PVC lateral to drip tube 3
	Area to Receive Dripline Hunter PLD-06-18 (or approved equal) <i>SF</i> In-Line Pressure Compensating <i>DEPENDENT</i> Landscape Dripline with Built-In Check Valve. <i>ON</i> 0.6GPH emitters at 18.0" O.C. Dripline <i>LOCATION OF</i> laterals spaced at 18.0" apart, with emitters <i>PLANTS</i> offset for triangular pattern. UV Resistant. Drip line shall be placed prior to mulch to ensure dripline is below mulch layer.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Drip System Valve and Basket Filter Assembly 1", Angle Remote Control Valve (Rainbird 100-PGA or approved equal) with 1", 200 Mesh Stainless Steel Screen Basket Filter (Rainbird QKCHK-100 or approved equal).	1
	Rain Bird 3-RC 3/4" Brass Quick-Coupling Valve	2
	Master Valve 1" 1" Remote Control Master Valve (Hunter ICV-G or approved equal) - normally open.	1
	(E) Reduced Pressure Backflow Device 1"	1

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Automatic Irrigation Controller Hunter IC-0600-PED-SS (or approved equal) Modular Controller, 6 stations, Outdoor Model, Stainless Steel Pedestal. evapotranspiration, soil moisture sensor, and rain sensor compatible.	1
	Rain Sensor Hunter MINI-CLIK or approved equal, mount per manufacturer recommendations. Preferred location is behind the controller where it can be attached to an existing light pole or other vertical structure without overhead obstruction.	1

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Flow Sensor Hunter HFS-150 Flow Sensor or Approved Equal.	1
	(E) Water Meter 1"	1
	Irrigation Lateral Line: PVC Schedule 40	85 LF
	Irrigation Mainline: PVC Schedule 40 2" Mainline	85 LF
	Pipe Sleeve: PVC Schedule 40 Sleeves Installed, per Civil Plans	85 LF



- SHEET NOTES**
- BOULDERS:** 1/4 -TON GRANITE COARSE ROCKS.
 - ARTIFICIAL TURF:** INSTALLATION OF ARTIFICIAL TURF. COMMERCIAL GRADE DIAMOND LIGHT FESCUE OR APPROVED EQUAL.
 - NEW IRRIGATION:** ALL NEW LANDSCAPE AREAS SHALL RECEIVE IRRIGATION COVERAGE PER THESE PLANS, DETAILS, AND NOTES.
 - IRRIGATION POINT OF CONNECTION (POC):** INSTALLATION OF METER AND BACKFLOW PREVENTION DEVICE BY OTHER. COORDINATE WITH ELECTRICAL SERVICE PROVIDER TO CONNECT TO ELECTRIC SUPPLY WIRES FOR CONTROLLER. LANDSCAPE CONTRACTOR TO VERIFY STATIC PRESSURE (PSI) AND GPM AT POC PRIOR TO START OF WORK.
 - IRRIGATION SLEEVES:** IRRIGATION SLEEVES INSTALLED PER CIVIL PLANS. 4" PVC SLEEVES INSTALLED UNDER SIDEWALKS AND 8" HDPE SLEEVES INSTALLED UNDER ROADWAY.
 - EXISTING STAMPED CONCRETE**

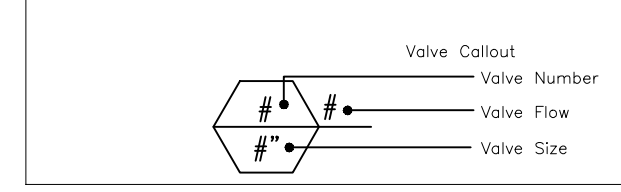
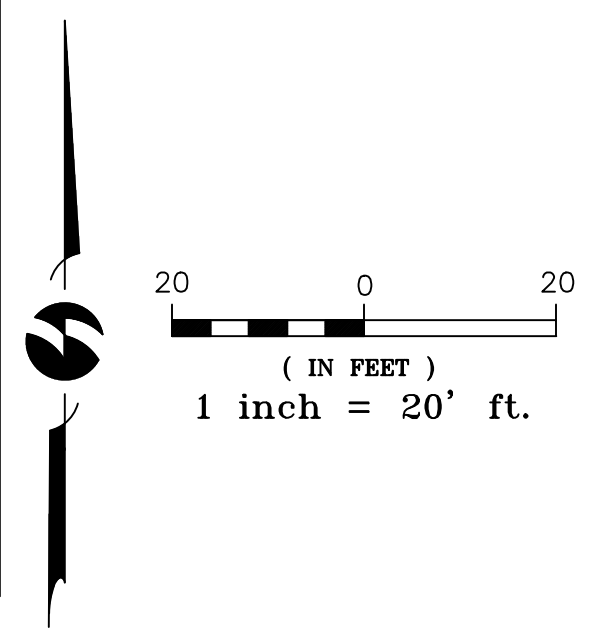
- IRRIGATION NOTES**
- EXISTING IRRIGATION EQUIPMENT:** INSTRUCTIONS ON THESE PLANS PERTAINING TO RELOCATION AND REUSE OF EXISTING EQUIPMENT IS BASED UPON AVAILABLE INFORMATION. THESE PLANS MAKE NO REPRESENTATIONS AS TO CONDITION OF EXISTING EQUIPMENT. CONTRACTOR SHALL EVALUATE EQUIPMENT AND REPORT ANY DEFICIENCIES TO OWNER PRIOR TO COMMENCING WORK. CONTRACTOR SHALL OBTAIN EXISTING MAINLINE AND LATERAL LINE LOCATIONS, PIPE SIZES, AND CONNECTION LOCATIONS FROM PROPERTY OWNER.
 - PRE-CONSTRUCTION TESTING OF EXISTING IRRIGATION SYSTEMS:** FOR ALL AREAS WHERE IRRIGATION IS TO BE PRESERVED IN PLACE, RESET, OR RELOCATED / REPLACED, THE CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION TEST TO VERIFY THE EXISTING FUNCTION AND COVERAGE OF THE IRRIGATION SYSTEM. THIS TEST SHALL BE DONE IN THE PRESENCE OF THE CITY ENGINEER. ONLY AFTER OBTAINING WRITTEN APPROVAL FROM THE CITY ENGINEER SHALL CONSTRUCTION PROCEED.
 - POST-CONSTRUCTION TESTING OF RELOCATED IRRIGATION SYSTEM:** FOLLOWING ALL IRRIGATION WORK, THE CONTRACTOR SHALL CONDUCT A POST-CONSTRUCTION IRRIGATION TEST IN THE PRESENCE OF THE CITY ENGINEER TO VERIFY FUNCTION AND COVERAGE.
 - DESIGN READABILITY:** SYMBOLS AND PIPE ALIGNMENTS ARE DIAGRAMMATIC. SIZE AND LOCATIONS ARE SHOWN FOR READABILITY. IRRIGATION EQUIPMENT AND PIPE SHALL BE LOCATED IN THE FIELD TO BEST FIT SITE CONDITIONS AND DESIGN INTENT.
 - MODEL WATER EFFICIENT LANDSCAPE ORDINANCE:** SEE SHEET LI2 FOR MODEL WATER EFFICIENT LANDSCAPE ORDINANCE CALCULATIONS FOR NEW LANDSCAPING ASSOCIATED WITH PROJECT.
 - ELECTRICAL COORDINATION:** CONTRACTOR TO COORDINATE WITH ELECTRICAL PROVIDER TO ENSURE REQUIRED POWER INPUT CONNECTIONS FOR THE IRRIGATION CONTROLLER. CONTRACTOR SHALL VERIFY POWER PROVIDED TO EQUIPMENT MEETS THE POWER INPUT NEEDED.

SYMBOL	DESCRIPTION	QTY
	ARTIFICIAL TURF.....5300 SF Commercial-Grade, Moderate Traffic	
	DECOMPOSED GRANITE..... 40 CY 2" Layer, 3/8" Minus D.G., 'Desert Gold' Color	

	Irrigation Lateral Line: PVC Schedule 40	85 LF
	Irrigation Mainline: PVC Schedule 40 2" Mainline	85 LF
	Pipe Sleeve: PVC Schedule 40 Sleeves Installed, per Civil Plans	85 LF

SCH 40 LATERAL SIZING CHART

GPM	PIPE SIZE
0-8	3/4"
8-15	1"
15-25	1.25"
25-35	1.5"
35-56	2"



811
Know what's below.
Call before you dig.
Contractor shall call
Underground Service Alert at
811 two working days prior
to excavation

DATE	BY
10/06/20	EC
03/08/24	EC

REVISION	ATTACHMENT #1
1	Attachment No. 2: Attachment #1
2	

Original work by
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IRRIGATION PLAN
HERMOSA STREET/WESTWOOD AVENUE
ROUNDAABOUT LANDSCAPE PROJECT - NO. 1
CITY OF LINDSAY

LINDSAY
CALIFORNIA

SCALE	1"=20'
JOB NO.	CS21-1
DESIGNED	LRP
DRAWN	LRP
FILE	
UPDATED	EH
DATE	01/29/2024

PROJECT SPECIFIC IRRIGATION NOTES:

- IRRIGATION WATER SOURCE IS POTABLE WATER. IRRIGATION METER AND BACKFLOW PREVENT PER CIVIL PLANS. BACKFLOW PREVENTION DEVICE OUTLET LOCATION IS CONSIDERED PROJECT IRRIGATION POINT OF CONNECTION (POC).
- IRRIGATION PRESSURE AND FLOW REQUIREMENTS: IRRIGATION SYSTEM IS DESIGNED TO FUNCTION AT MINIMUM 13 GALLONS PER MINUTE AND BETWEEN 40 TO 50 PSI STATIC PRESSURE. CONTRACTOR TO VERIFY STATIC PRESSURE AND GPM IMMEDIATELY PRIOR TO COMMENCEMENT OF WORK. IF EXISTING STATIC PRESSURE AT THIS LOCATION IS HIGHER OR LOWER THAN SYSTEM DESIGN LIMIT AS SPECIFIED ABOVE, CONTRACTOR SHALL NOTIFY THE CITY AND LANDSCAPE ARCHITECT PRIOR TO PROCEEDING WITH IRRIGATION INSTALLATION.
- IRRIGATION MAINLINE PIPE SIZE TO BE 2" DIA. SCH 40 PVC.
- PLAN IS DIAGRAMMATIC AND NOT INTENDED TO SHOW EXACT LOCATIONS OF PIPING AND VALVES. ALL MAIN LINE, GATE VALVES, RCVs, AND LATERAL PIPE SHALL BE INSTALLED WITHIN THE PROJECT AREA, IN PLANTING AREAS, WHETHER SHOWN THERE OR NOT.
- THE EXISTING UNDERGROUND WATER LINES AND OTHER UTILITIES HAVE NOT BEEN FIELD VERIFIED UNDER THE CONSTRUCTION DOCUMENT PHASE OF WORK. THE EXISTING WATER LINES AND OTHER UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE NOT EXACT. CONTRACTOR TO VERIFY AND LOCATE EXISTING UTILITIES IN THE FIELD. DAMAGE TO ANY EXISTING IRRIGATION SYSTEMS AND OTHER VARIOUS UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- CONTRACTOR SHALL PROVIDE MANUFACTURERS' CUT SHEETS FOR ALL COMPONENTS SPECIFIED. ALL IRRIGATION EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURERS' RECOMMENDATIONS, SPECIFICATIONS, SHOP DRAWINGS, AND ACCORDING TO PLANS AND DETAILS.
- LOCATION OF THE IRRIGATION CONTROLLER SHALL BE INSTALLED IN LOCATION AS SHOWN ON THE PLANS. COORDINATE ELECTRIC POWER FOR CONTROLLER OPERATION WITH ELECTRICAL SERVICE PROVIDER AND CIVIL PLANS (I.E. 120/230 VAC, 50/60 HZ).
- CONTRACTOR SHALL PROGRAM THE IRRIGATION CONTROLLERS TO PROVIDE AMPLE IRRIGATION TO ALL PLANTINGS WITHIN THE ALLOWED WATERING WINDOW OF TIME AS DICTATED BY THE CITY. THE CONTRACTOR SHALL CREATE CONTROLLER PROGRAMING THAT WILL OPERATE ONE VALVE AT A TIME AS TO NOT EXCEED THE MAXIMUM GALLONS PER MINUTE FLOW RATE STATED ON THE DRAWINGS.
- ROUTE IRRIGATION CONTROL WIRE IN SAME TRENCH AS IRRIGATION MAIN LINE.
- PLACE FLOW SENSOR DATA CABLE FROM CONTROLLER TO MASTER VALVE/FLOW SENSOR IN IN ITS OWN 1" DIAMETER SCH. 40 GRAY ELECTRICAL CONDUIT.
- TRENCHING WITHIN THE DRIPLINE OF LARGE EXISTING TREES SHALL BE PERFORMED BY HAND, AND WITH EXTREME CARE NOT TO SEVER ROOTS 1-1/2" IN DIAMETER.
- SEE IRRIGATION SCHEDULE, NOTES, AND IRRIGATION DETAILS FOR MORE INFORMATION.
- THE IRRIGATION SYSTEM IS DESIGNED TO COMPLY WITH THE STATE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE.
- IRRIGATION SYSTEM SHALL NOT BE INSTALLED UNTIL LANDSCAPE GRADING IS COMPLETE, AND APPROVED BY CITY.
- IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODES AND REGULATIONS. ALL MATERIALS SHALL BE IN NEW PERFECT CONDITION AND COMMERCIAL GRADE. DEVIATIONS FROM THE SPECIFIED MUST BE "OR EQUAL" AND APPROVED BY THE CITY AND/OR THE LANDSCAPE ARCHITECT.
- HOUSE REMOTE CONTROL VALVES IN RECTANGULAR PLASTIC VALVE BOX TWELVE (12) INCHES FROM ADJACENT SIDEWALK, CURB OR HEADER BOARD. SET TOP OF VALVE BOX EVEN WITH FINISH GRADE. SEE DETAIL.
- HOUSE QUICK COUPLING VALVES IN ROUND PLASTIC VALVE BOX WITH BOLT DOWN LID. SET TOP OF VALVE BOX EVEN WITH FINISH GRADE. SEE DETAIL.
- CONTRACTOR SHALL KEEP A DETAILED REDLINE PLAN RECORDING INSTALLATION OF IRRIGATION SYSTEM. RECORD PLAN SHALL BE DRAFTED WITH AS-BUILT DRAWINGS SHOWING LOCATIONS OF PIPING, VALVES, HEADS, WIRING, ETC. FOR APPROVAL BY CITY ENGINEER.
- THREE LAMINATED, DETAILED IRRIGATION SCHEDULES SHOWING STATION PROGRAMMING AND RUN TIMES SHALL BE PROVIDED FOR THE CONTROLLER AND APPROVED BY CITY AND LANDSCAPE ARCHITECT- ONE WARM SEASON, ONE COOL SEASON, AND ONE FOR PLANT ESTABLISHMENT PERIOD. EACH SCHEDULE SHALL BE ACCOMPANIED BY REDUCED "AS-BUILT" PLAN (11"x17") PERMANENTLY MOUNTED IN OR NEAR CONTROLLER. THESE SHALL BE SUBMITTED PRIOR TO ACCEPTANCE OF THE WORK AND AS A CONDITION OF COMMENCEMENT OF MAINTENANCE PERIOD, AFTER FINAL ACCEPTANCE OF THE PROJECT BY THE CITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE LANDSCAPE IRRIGATION SYSTEM FOR THE DURATION OF THE PLANT ESTABLISHMENT PERIOD - 90 DAYS. THIS INCLUDES PROGRAMMING THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. DUTIES SHALL ALSO INCLUDE CHECKING AND REPAIRING IRRIGATION SYSTEM TO MAINTAIN PEAK PERFORMANCE.
- CONTRACTOR RESPONSIBLE TO COMPLETE STATE REQUIRED "CERTIFICATION OF INSTALLATION" AND COORDINATE A "LANDSCAPE IRRIGATION AUDIT REPORT" PER SECTION 492.11 OF THE STATE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE.

CRITICAL ANALYSIS

Generated: 2020-08-21 14:40

P.O.C. NUMBER: 01
 Water Source Information: (E) Meter 1" Line
FLOW AVAILABLE
 Water Meter Size: 1"
 Flow Available: 37.50 gpm

PRESSURE AVAILABLE
 Static Pressure at POC: 47.00 psi
 Elevation Change: 5.00 ft
 Service Line Size: 1 1/2"
 Length of Service Line: 10.00 ft
 Pressure Available: 47.00 psi

Maximum Station Flow: 12.86 gpm
 Flow Available at POC: 37.50 gpm
 Residual Flow Available: 24.64 gpm

Critical Station: 3
 Design Pressure: 20.00 psi
 Friction Loss: 2.00 psi
 Fittings Loss: 0.15 psi
 Elevation Loss: 0.00 psi
 Loss through Valve: 5.52 psi
 Pressure Req. at Critical Station: 29.22 psi
 Loss for Fittings: 0.01 psi
 Loss for Main Line: 0.28 psi
 Loss for POC to Valve Elevation: 0.00 psi
 Loss for Backflow: 11.72 psi
 Loss for Master Valve: 3.00 psi
 Loss for Water Meter: 0.94 psi
 Critical Station Pressure at POC: 43.62 psi
 Pressure Available: 47.00 psi
 Residual Pressure Available: 3.38 psi

SYMBOL	MANUFACTURER/MODEL/QTY
	Pipe transition point - PVC lateral to drip tube 3
	Area to Receive Dripline Hunter PLD-06-18 (or approved equal) SF In-Line Pressure Compensating DEPENDENT Landscape Dripline with Built-In Check Valve. ON 0.6GPH emitters at 18.0" O.C. Dripline LOCATION OF laterals spaced at 18.0" apart, with emitters PLANTS offset for triangular pattern. UV Resistant. Drip line shall be placed prior to mulch to ensure dripline is below mulch layer.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION QTY
	Drip System Valve and Basket Filter Assembly 1 1", Angle Remote Control Valve (Rainbird 100-PGA or approved equal) with 1", 200 Mesh Stainless Steel Screen Basket Filter (Rainbird QKCHK-100 or approved equal).
	Rain Bird 3-RC 2 3/4" Brass Quick-Coupling Valve
	Master Valve 1" 1" Remote Control Master Valve (Hunter ICV-G or approved equal) - normally open.

LANDSCAPE DOCUMENTATION PACKAGE

- PROJECT INFORMATION**
- PROJECT LOCATION: AS SHOWN ON TITLE SHEET
 - TOTAL LANDSCAPE AREA: 6,084 SF
 - PROJECT TYPE: PUBLIC, CITY ROUNDABOUT
 - WATER PURVEYOR: CITY OF LINDSAY, WATER UTILITIES
 - WATER SUPPLY TYPE: POTABLE WATER
 - DOCUMENTS IN THIS PACKAGE INCLUDE:
 - IRRIGATION PLANS / DETAILS
 - PLANTING PLANS / DETAILS
 - MAWA WATER BUDGET CALCULATIONS
 - ETWU WATER BUDGET CALCULATIONS
 - SOIL MANAGEMENT REPORT: NOT PREPARED - ALL PLANTING SOIL SHALL BE IMPORTED TOPSOIL FOR BACKFILL IN OVER-EXCAVATED PLANTER AREAS. SOIL SHALL CONFORM TO PLAN NOTES, DETAILS, AND CALTRANS STANDARD FOR IMPORTED TOPSOIL.
 - GRADING INFORMATION: SEE CIVIL PLANS FOR CONTOUR GRADING SHEETS

RECOMMENDATION FOR IRRIGATION SYSTEM

- PARTS**
- VALVE PART # 210-055 4PCS
 - CONTROLLER 1 PC
 - DECODER # P2-D 4 PCS

Hermosa St. & Westwood Ave. RA, Lindsay, CA
 Based on landscape areas to be maintained
 (per the State Model as of July 2020)

MAWA (Maximum Applied Water Allowance) Calculation
 Formula per State = $(Eto)(0.62)[(ETAF*LA) + ((1-ETAF)*SLA)]$

Annual Gallons Allowed = 86,060.01

MAWA Criteria
 Eto = 50.70
 ETAF = 0.45
 LA = 6,084.00
 SLA = 0.00

ETWU (Estimated Total Water Use) Calculation
 $ETo \times 0.62 \times [(PF \times HA) / IE] + SLA$

Hydro Zone	Valve Zones	PF	Irr Method	IE	Hydrozone Area (HA)	(PF X HA)/IE
Low	All	0.2	DRIP	0.81	6,084.00	1,502.22
Medium	na	0.5	DRIP	0.81	0.00	0.00
High	na	0.9	DRIP	0.81	0.00	0.00
TOTAL HYDROZONE AREA					6,084.00	
TOTAL SPECIAL LANDSCAPE AREA						0
TOTAL LANDSCAPE AREA INCLUDING SPECIAL LANDSCAPE AREA						6,084.00
ETWU Total						47,220.85
MAWA						86,060.01

(ETWU should be less than MAWA)

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	Drip System Valve and Basket Filter Assembly	1"	Area for Dripline	12.86	22.5	28.86	44.69	0.45 in/h
2	Drip System Valve and Basket Filter Assembly	1"	Area for Dripline	7.70	27.3	26.84	41.62	0.45 in/h
3	Drip System Valve and Basket Filter Assembly	1"	Area for Dripline	12.38	166.4	29.23	45.19	0.45 in/h
4	Drip System Valve and Basket Filter Assembly	1"	Area for Dripline	10.23	171.1	29.09	44.65	0.45 in/h
	Common Wire				544.2			

DESIGN ANALYSIS

NO.	REVISION	DATE	BY
1		10/06/20	EG
2	Addendum No. 2: Attachment #1	03/08/24	

Original work by
 Omnimeans

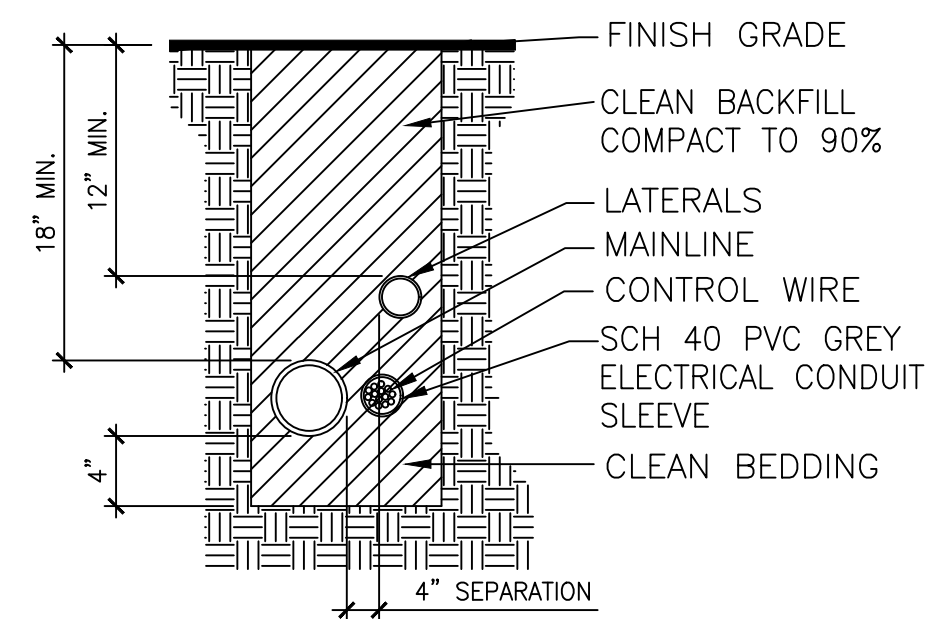
San Luis Obispo
 State Water Resources Control Board
 800 N. Santa Rosa Ave., Suite 200
 San Luis Obispo, CA 93428
 (805) 798-6000
 www.sanluisobispo.gov

IRRIGATION NOTES AND SCHEDULE
 HERMOSA STREET/WESTWOOD AVENUE
 ROUNDABOUT LANDSCAPE PROJECT - NO. 1
 CITY OF LINDSAY

LINDSAY CALIFORNIA

SCALE	AS SHOWN
JOB NO.	CS21-1
DESIGNED	LRP
DRAWN	LRP
FILE	
UPDATED	EH
DATE	01/29/2024

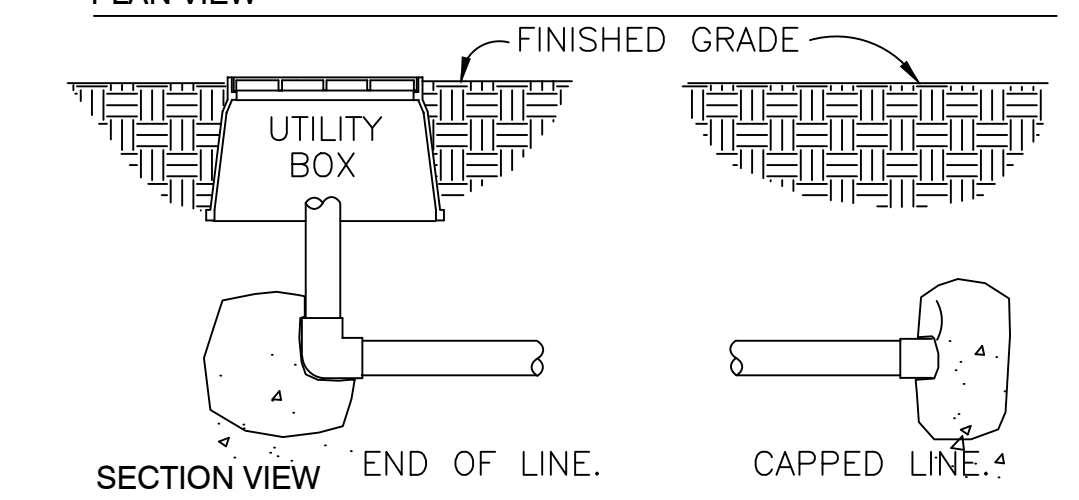
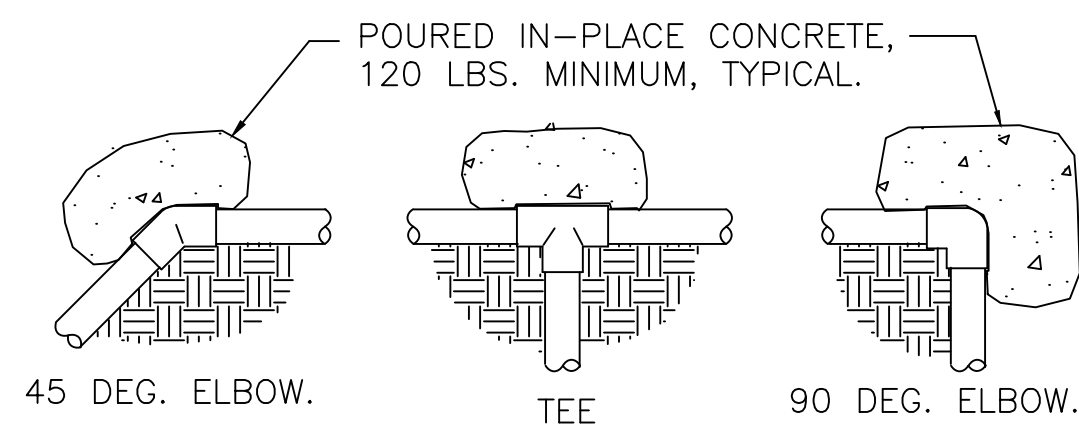
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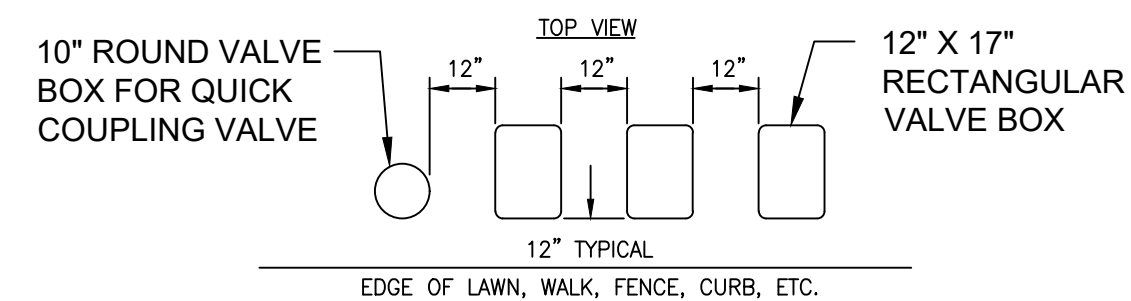
SCH 40 PVC SLEEVE UNDER CONCRETE WALK PAVING
SECTION: PLANTING AREAS

1. ALL PIPE, WIRE, &/OR SLEEVES TO GO UNDER SIDEWALK PAVEMENT TO BE INSTALLED PRIOR TO PAVING BEING INSTALLED.
2. BUNDLE AND TAPE ALL CONTROL WIRE AT 10' INTERVALS; TAPE TO MAINLINE AT 20' INTERVALS.
3. TIE A LOOSE 2' LOOP IN WIRE AT CHANGES IN DIRECTION OF 30 DEG. OR GREATER. UNTIE AFTER CONNECTIONS HAVE BEEN MADE.
4. INSTALL LOCATOR WIRE ALONGSIDE MAINLINE WHERE THERE IS NO CONTROL WIRE.
5. SEE CALTRANS STANDARD PLANS FOR IRRIGATION CROSSOVERS AND CONDUIT DETAILS BELOW STREET PAVING.

1 IRRIGATION PIPE AND CONTROL WIRE TRENCHING
NOT TO SCALE P-HE-26

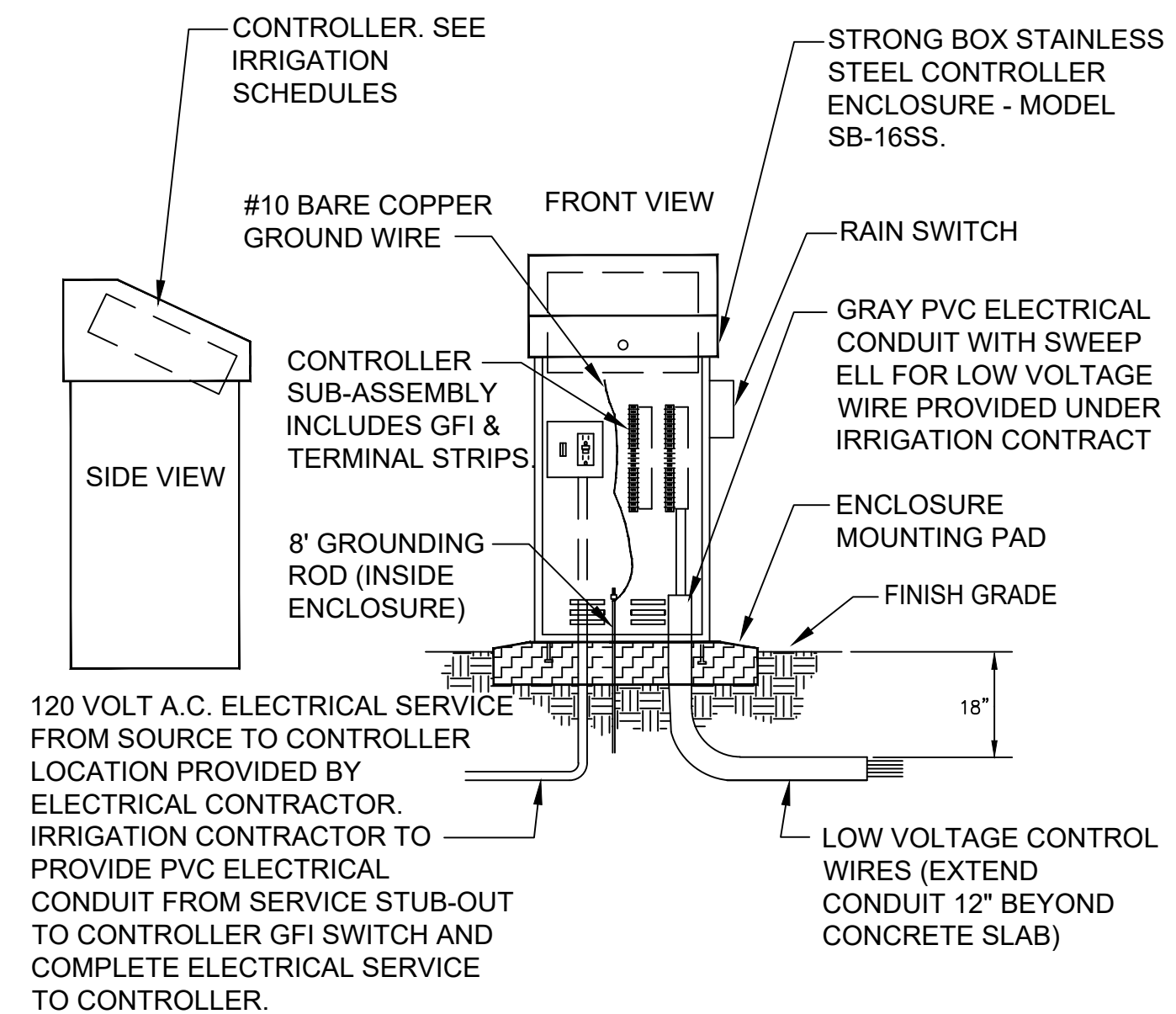


2 THRUST BLOCKING
NOT TO SCALE P-HE-29

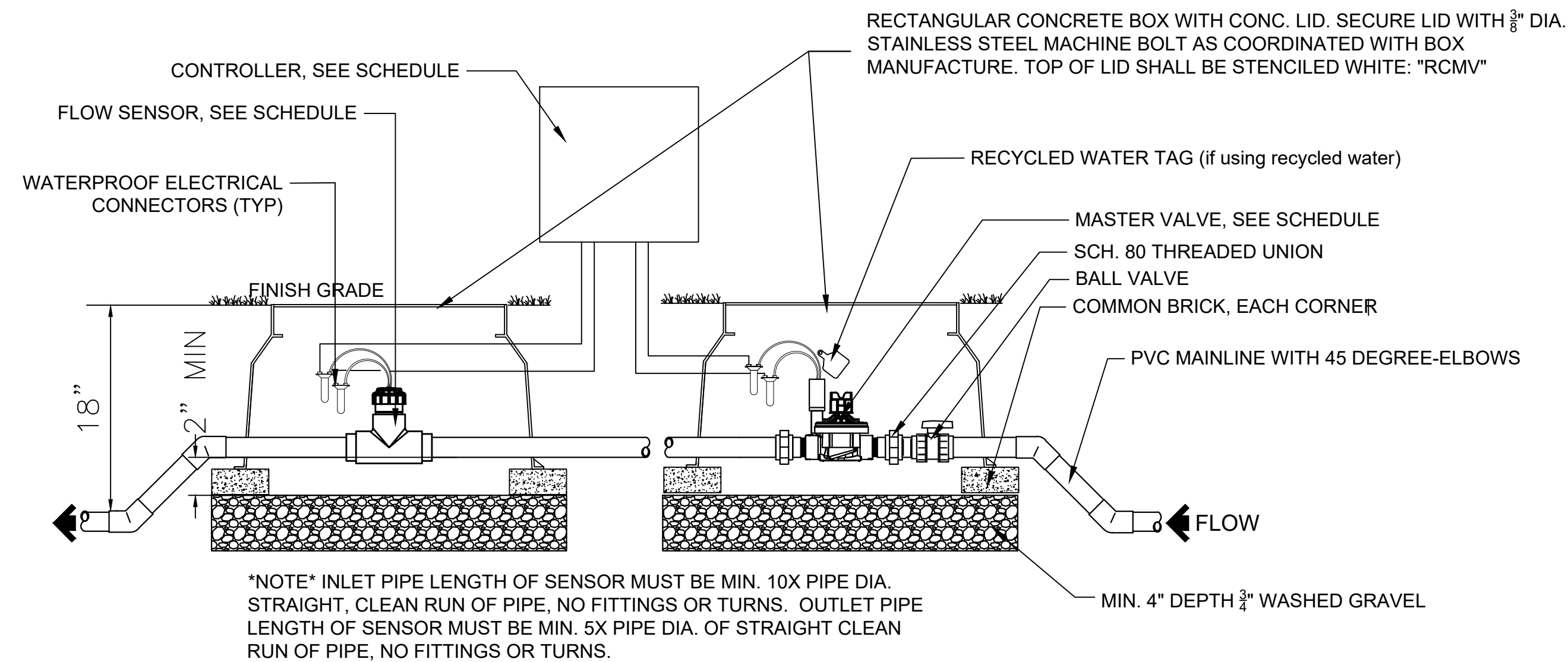


1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
2. SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FINISH GRADE IN TURF AREA.
3. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUND COVER DOES NOT EXIST ADJACENT TO LAWN.
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF LAWN, WALK, FENCE, CURB, ETC.
5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. INSTALL EXTENSION BY VALVE BOX MANUFACTURER AS REQUIRED TO COMPLETELY ENCLOSE ASSEMBLY FOR EASY ACCESS.

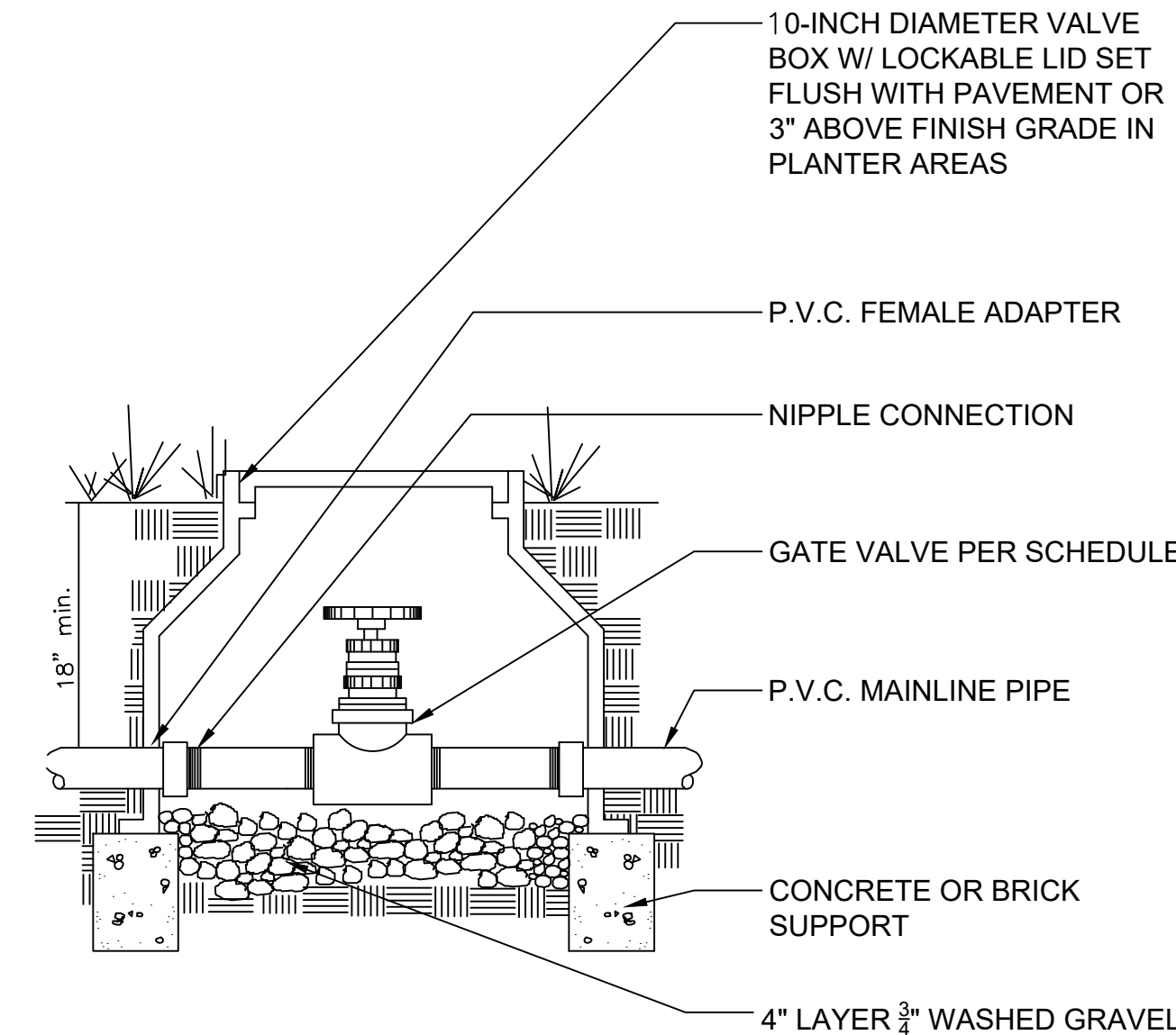
3 VALVE BOX LAYOUT
NOT TO SCALE



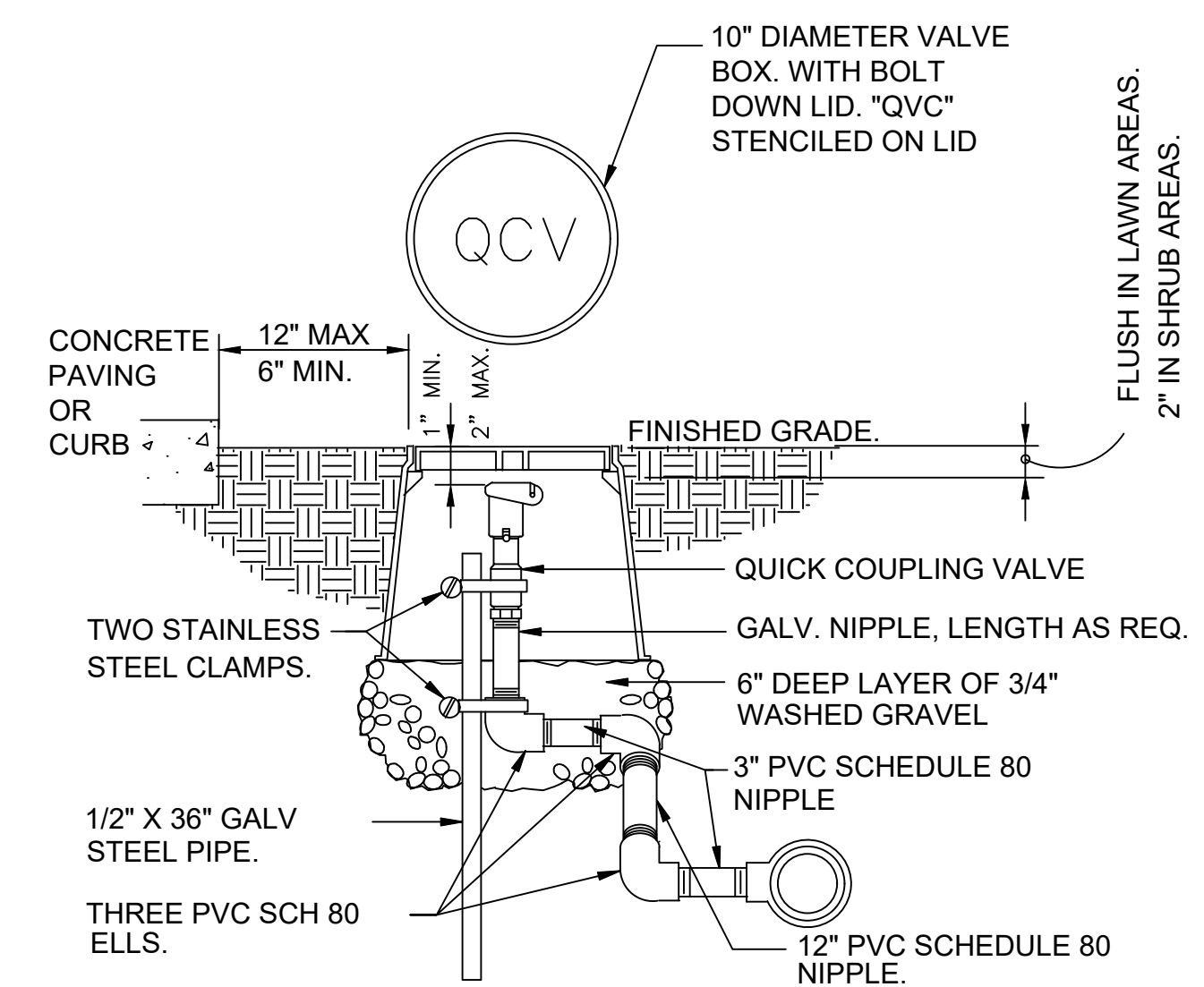
4 TOP OPENING PEDESTAL MOUNT CONTROLLER
NOT TO SCALE



5 MASTER VALVE AND FLOW SENSOR ASSEMBLY
1 1/2" = 1'-0" P-HE-27



6 GATE VALVE
NOT TO SCALE P-HE-59



7 QUICK COUPLING VALVE
1 1/2" = 1'-0" P-HE-30

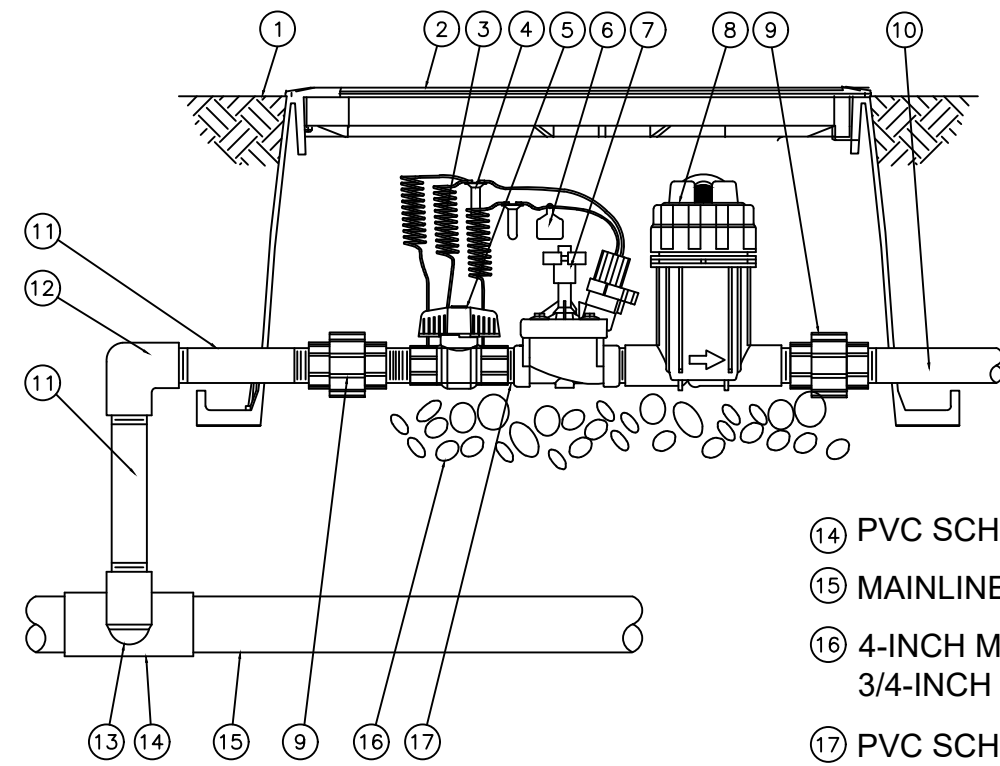
NO.	REVISION	DATE	BY
1		10/06/20	EC
2	Attachment #1	03/08/24	

Original work by
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SAN LUIS OBISPO, CA 95060
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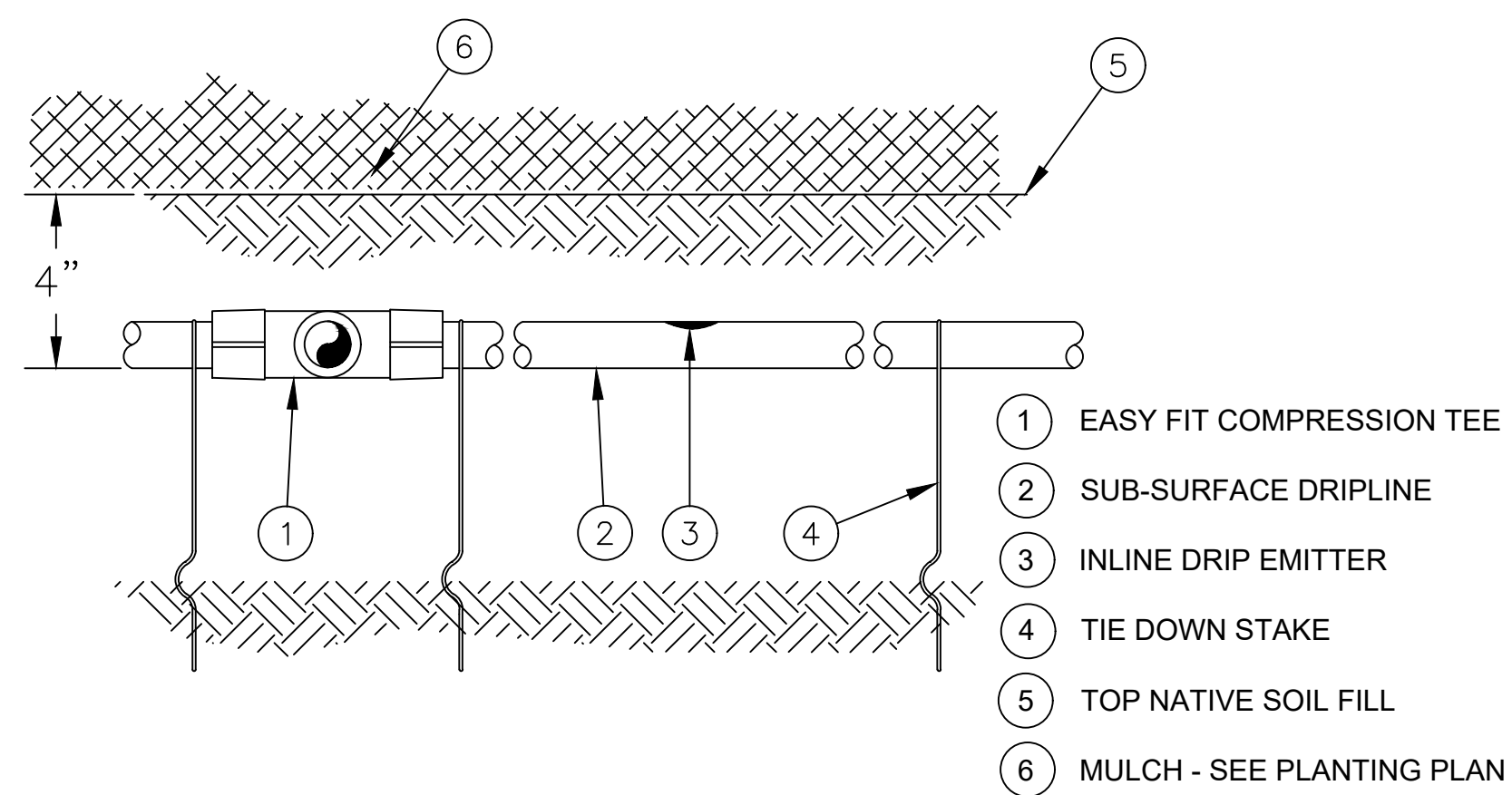
IRRIGATION DETAILS 1
HERMOSA STREET/WESTWOOD AVENUE
ROUNDBOUT LANDSCAPE PROJECT - NO. 1
CITY OF LINDSAY

SCALE	AS SHOWN
JOB NO.	CS21-1
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- ① FINISH GRADE/TOP OF MULCH
- ② VALVE BOX WITH COVER
- ③ 30-INCH LINEAR LENGTH OF WIRE, COILED
- ④ WATERPROOF CONNECTION
- ⑤ 1-INCH BALL VALVE
- ⑥ ID TAG
- ⑦ REMOTE CONTROL VALVE
- ⑧ PRESSURE REGULATING QUICK CHECK BASKET FILTER
- ⑨ UNION CONNECTOR
- ⑩ LATERAL PIPE
- ⑪ PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- ⑫ PVC SCH 40 ELL
- ⑬ PVC SCH 40 NIPPLE AND ELL

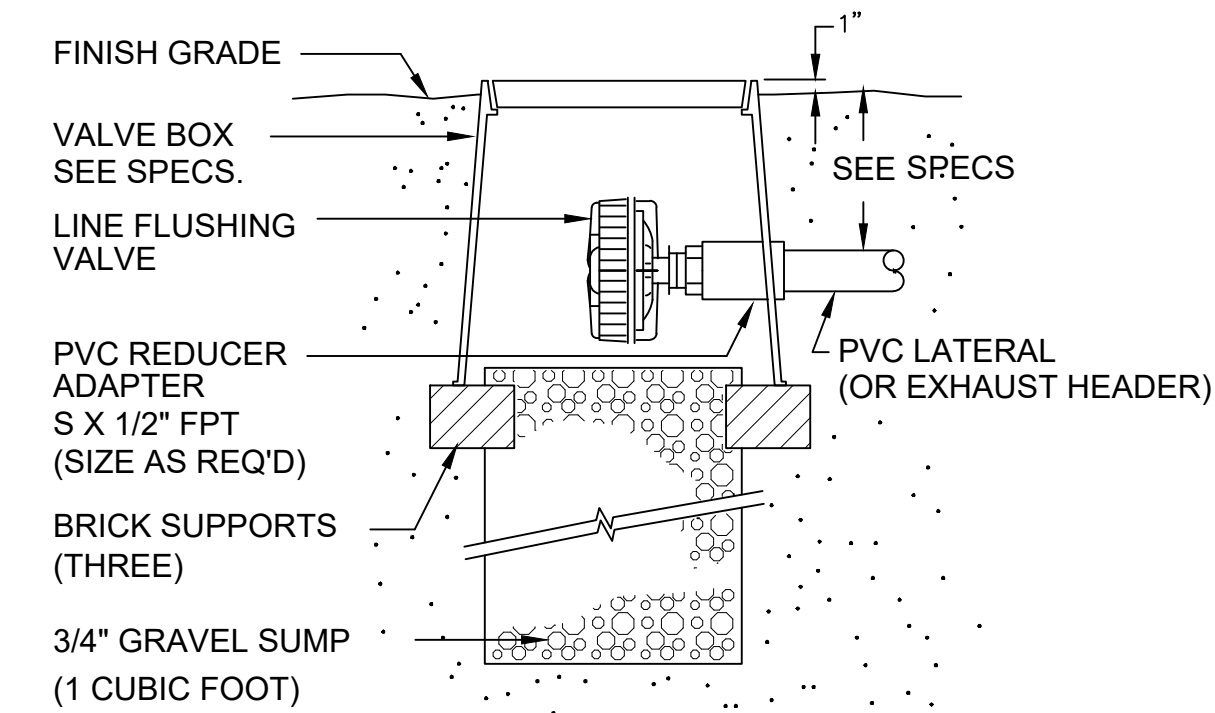


1 DRIP VALVE KIT
NOT TO SCALE

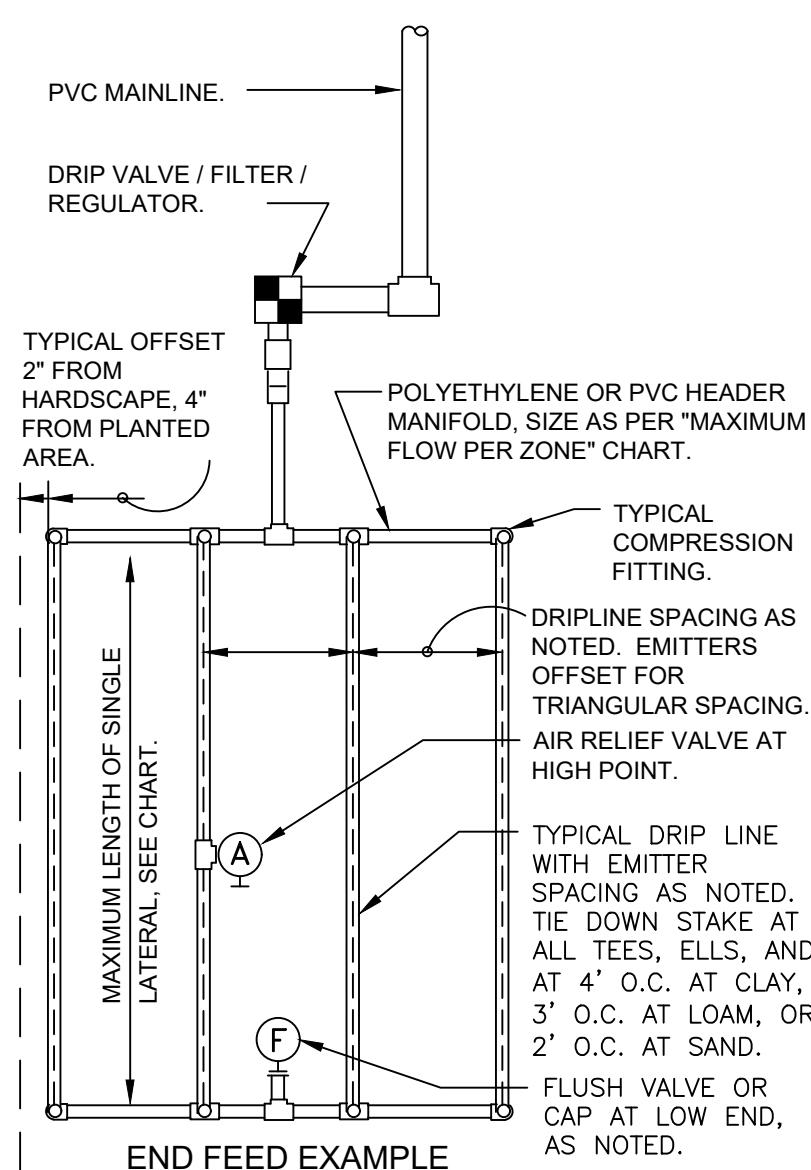


2 BELOW SURFACE IN-LINE DRIP IRRIGATION
1" = 1"

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



3 END LINE FLUSH DETAIL - DRIP
1" = 1"



4 TYPICAL RAIN BIRD DRIPLINE REQUIREMENTS
N.T.S.

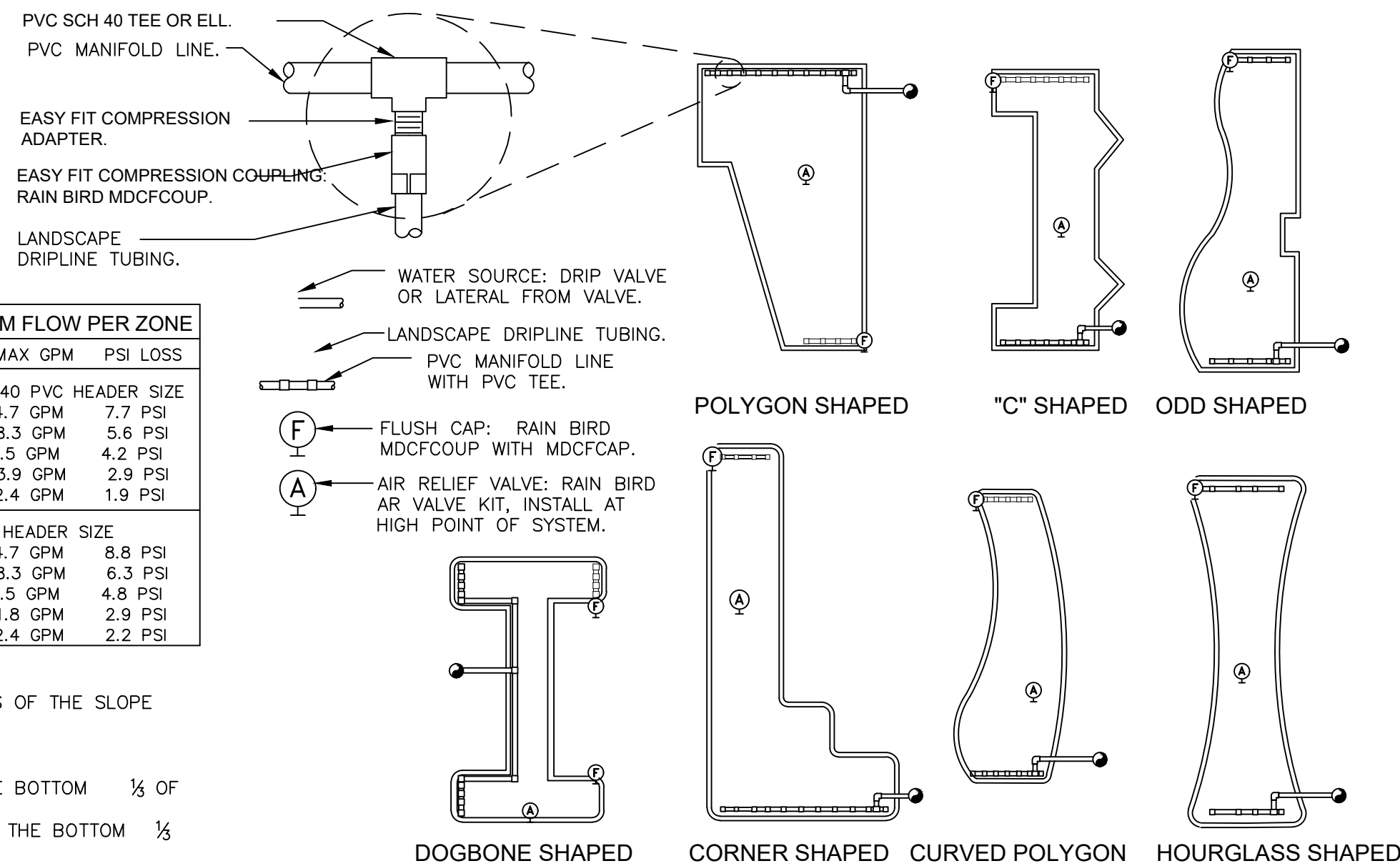
PSI	MAXIMUM LATERAL LENGTH (FEET)					
	EMITTER FLOW RATE GPH					
	12" SPACING		18" SPACING		24" SPACING	
10	125	96	175	135	218	171
20	249	191	350	171	442	340
30	307	236	434	333	550	422
40	350	268	495	380	627	171
50	125	96	175	135	218	171
60	125	96	175	135	218	171

EMITTER SPACING	LATERAL SPACING	EMITTER FLOW RATE	
		0.6	0.9
12	12	0.96	1.44
18	18	0.69	1.03
24	24	0.28	0.41

EMITTER FLOW	LATERAL FLOW PER 100 FT (GPM)		
	12" SPACING	18" SPACING	24" SPACING
0.6 GPH	1.0 GPM	0.67 GPM	0.50 GPM
0.9 GPH	1.5 GPM	1.0 GPM	0.75 GPM

SCHEDULE 40 PVC HEADER SIZE	MAXIMUM FLOW PER ZONE	
	MAX GPM	PSI LOSS
1/2"	4.7 GPM	7.7 PSI
3/4"	8.3 GPM	5.6 PSI
1"	13.5 GPM	4.2 PSI
1-1/2"	33.9 GPM	2.9 PSI
2"	52.4 GPM	1.9 PSI

- SLOPED CONDITION NOTE:**
- DRIPLINE LATERALS SHOULD FOLLOW THE CONTOURS OF THE SLOPE WHENEVER POSSIBLE.
 - INSTALL AIR RELIEF VALVE AT HIGHEST POINT.
 - NORMAL SPACING WITHIN THE TOP 2/3 OF SLOPE.
 - INSTALL DRIPLINE AT 25% GREATER SPACING AT THE BOTTOM 1/3 OF THE SLOPE.
 - WHEN ELEVATION CHANGE IS 10 FT OR MORE, ZONE THE BOTTOM 1/3 ON A SEPARATE VALVE.



P-HE-25

DATE	BY
10/06/20	EC
03/08/24	

Original work by
Omnimeans

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IRRIGATION DETAILS 2
HERMOSA STREET/WESTWOOD AVENUE
ROUNDAABOUT LANDSCAPE PROJECT - NO. 1
CITY OF LINDSAY

LINDSAY
CALIFORNIA

SCALE	AS SHOWN
JOB NO.	CS21-1
DESIGNED	LRP
DRAWN	LRP
FILE	
UPDATED	EH
DATE	01/29/2024

IRRIGATION SYSTEM

PART 1 – GENERAL

For the purpose of these specifications, the Owner's Representative shall be defined as the Landscape Architect, The Project Superintendent, and or the Architect.

1.01 SECTION INCLUDES

- A. The work included under this Section consists of furnishing all fees and permits, all labor, tools, materials, equipment, transportation, and services required to complete the installation of the Underground Sprinkler Irrigation system, including revisions to existing systems, as shown on the Drawings and as specified in this section.
- B. Related Sections:
 1. Section 2900 – Planting: Provision of requirements for fine grading of planting areas.

1.02 REFERENCES

- A. National Electric Code (NEC).
- B. Uniform Plumbing Code (UPC).
- C. Underwriters Laboratories Inc. (UL):

1.03 QUALITY ASSURANCE

- A. All work and materials shall be in full accordance with the latest rules and regulations of the National Electric Code, the Uniform Plumbing Code, and other applicable State or local laws or regulations. Nothing in these Drawings or Specifications is to be construed to permit work not conforming to these Codes.
- B. When the Specifications call for materials or construction of a better quality or larger size than required by the above mentioned rules and regulations, the provision of the Specifications shall take precedence over the requirements of the said rules and regulations.
- C. The Contractor shall furnish, without any extra charge, any additional material and labor when required by the compliance mentioned on these particular Specifications or shown on the Drawings.
- D. The Contractor shall erect and maintain barricades, guards, warning signs, and lights as necessary or required by OSHA regulations and as required by these contract documents for the protection of the public or workmen.
- E. Any existing buildings, equipment, piping, sewers, sidewalks, landscaping or other Site improvements damaged by the Contractor during the course of his work shall be replaced or repaired by the Contractor in a manner satisfactory to the Owner's representative and at the Contractor's own expense, and before the final payment is made. The Contractor shall be responsible for damage caused by leaks in the piping systems being installed or having been installed by him. He shall repair, at his own expense, all damage so caused, in a manner satisfactory to the Owner's representative.
- F. Installing company and its job site superintendent shall have at least 3 years immediate and continuous experience installing systems of similar design and type of equipment.
- G. The Contractor shall obtain and pay all fees, licenses, and permits required for the Project.
- H. Before making bid, examine the Site carefully, verifying dimensions and other Site conditions in relation to the Plans. The Contractor is responsible for informing himself of all conditions under which work is to be done before submitting his bid.
- I. In case of an apparent discrepancy among Drawings, Specifications, and actual Site conditions, bring the discrepancy to the attention of the Owner's Representative in writing.

1.04 PERFORMANCE REQUIREMENTS

- A. Irrigation System:
 1. Construct irrigation system to sizes, grades, and locations indicated on the Drawings.
 2. Irrigation lines indicated on the Drawings are essentially diagrammatic.
 3. Establish exact locations of tree well bubblers and drip zone tubing, at time of construction.

1.05 SUBMITTALS

- A. Submit and cut sheets provide for all irrigation system components.
- B. Record Drawings
 1. The Contractor shall maintain, in good order, in the field office, one complete Set of Irrigation Drawings showing all water lines, valves, controllers, stub-outs, and sleeves. In the event any work is not installed as indicated on the Drawings, such work shall be immediately corrected and dimensioned accurately from the building walls on these Record Drawings.
 2. All underground stub-outs and sleeves for future connections (if noted on the plans) shall be located and dimensioned accurately from the building walls on these Record Drawings.
 3. Upon completion of the work, and prior to final acceptance, the Contractor shall provide the 'As Built' conditions. Furnish these corrected 'As Built' plans to the Owner's Representative.
- C. Contract Closeout Submittals:
 1. Submit to Owner's Representative
 - a. Project Record Documents: After final acceptance of project, turn over record documents to the Owner's Representative.
 - b. Operation and Maintenance: Provide operation and maintenance manuals covering the system and its components including a detailed typewritten instructions for Winter and Summer controller programming, including demonstration.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Packing and Shipping:
 1. Deliver plastic pipe, fittings, and connectors to project site in unbroken bundles or rolls, packaged in such manner as to provide adequate protection for pipe ends, threaded or plain.
- B. Storage and Protection
 1. During construction and storage protect materials from damage and prolonged exposure to sunlight, excessive heat, and/or deleterious materials.

1.07 JOB CONDITIONS

- A. Proceed with and complete irrigation work as rapidly as portions of Site become available, working within seasonal limitations.
- B. Determine location of underground utilities and perform work in a manner which will avoid possible damage. Hand excavate as required.
- C. Maintain grade stakes set by others until removal is mutually agreed on by parties concerned.

1.08 SUBSTITUTION AND VERIFICATION

- A. Certain numbers on the Drawings and the Specifications are taken from the catalogues of the manufacturers named. The Contractor shall be responsible for verifying that listed numbers correspond to appropriate equipment currently available from the manufacturers.
- B. Numbers on the Drawings refer to the basic equipment required and the Contractor shall be responsible for determining additional incidental parts necessary for the attachment or assembly of equipment within the system.
- C. Requests for substitutes must be in writing and approved of by the Owner's Representative.

PART 2 – PRODUCTS

2.01 PVC PLASTIC PIPING AND FITTINGS

- A. Exterior main lines (pressure lines) & Exterior lateral lines (non-pressure): All piping is to be PVC Schedule 40 (ATM D 1785) plastic pipe. Use Type 1 Schedule 40 High Impact PVC solvent weld fittings.
- B. Connections between mainlines and RCV's shall be of Schedule 80 PVC nipples and fittings as per Detail on Plan.
- C. Plastic to metal connections shall be made with Schedule 80 male adapter or threaded nipple.
- D. Plastic saddles and flange type fittings are not to be used.

2.02 GALVANIZED STEEL PIPE AND FITTINGS

- A. Steel pipe shall be standard weight Schedule 40 as specified in Section 15252, mild steel pipe of domestic origin, galvanized, and shall be new and scale free. All nipples shall be of the same material.
- B. Steel pipe fittings shall be heavy pattern, banded, galvanized malleable iron, threaded pipe fittings.
- C. Nipples are to be of same material as pipe.
- D. Crosses, bushings, and close nipples are not to be used.
- E. All galvanized steel pipe and fittings occurring below grade, including to 6 inches above finish grade, are to be field wrapped with a PVC tape. The wrapping tape and technique are to be subject to Owner's Representative approval.
- F. All dissimilar metal piping are to be joined with a dielectric fitting.

2.03 SLEEVES AND CHASES

- A. All irrigation pipe sleeves and/or electrical chases shall be PVC Schedule 40 (ASTM D 1785). Size twice the diameter of the sum of the pipe or pipes total diameter.
- B. Class 1 and Class 2 electrical conductors are not to be placed in the same conduit.

2.04 IRRIGATION SYSTEM EQUIPMENT

- A. The backflow prevention assembly, automatic sprinkler controller, control valves, and other miscellaneous equipment shall be as specified on the Plans (or on the civil engineering plans) and/or in the Irrigation System Legend.
- B. Drip system components as indicated on the plans.

2.05 CONTROL WIRE

- A. Control wire shall be type UF, 600 volt, single conductor wire with PVC insulation 4x64 inches thick (minimum). Control wire shall be #14 single conductor solid copper wire. All control or 'hot' wires shall be of one color (RED) and all common or 'ground' wires shall be (WHITE). Common ground wires size shall be #12 single conductor.
- B. Electrical wire connections shall be 3M Brand DBY Direct Bury Splice Kit, shall splice and effectively moisture seal two or more conductors. The electrical connector shall be a 'Scotchlok' Y.

2.06 AUTOMATIC CONTROLLER

- A. Provide and install automatic irrigation controller, as indicated in the irrigation legend, and in approximate location shown on the Plans. The exact location will be determined on the Site by the Owner's Representative.
- B. Controller shall have correct number of modules to allow for operation of all wired valves.
- C. Coordinate electrical input connection with electrical service provider to ensure appropriate power supply.

2.07 BACKFLOW PREVENTERS

- A. Backflow prevention devices are to be installed as per plan details and specifications (see civil plans). Verify point of connection size and location in field. Contact Owner's Representative if contrary to plan.

2.08 MASTER VALVE AND FLOW SENSOR

- A. Master Valve and Flow Sensor as specified on the plans.

2.9 REMOTE CONTROL VALVES

- A. Remote Control Valves specified on the plans. Wire runs between valves and the controller. Each valve shall have a unique and individual hot wire and shared common ground.
- B. Remote Control Valves shall be as indicated on the plans.

2.10 GATE VALVES

- A. Gate Valves shall be as indicated on the plans.

2.11 VALVE BOXES

- A. Valve boxes shall be Carson #1419-13 as manufactured by Carson Industries, Inc. and are to have bold down lids, with "RCV" cast on lid, or approved equal.
- B. Install only one RCV or gate valve per valve box.
- C. Install all valve boxes on a pea gravel or 3/4" wash base as indicated on the details.

2.12 MISCELLANEOUS EQUIPMENT AND MATERIALS

- A. PVC pipe connections: Solvent cement and primer for solvent weld joints shall be of make and type approved by manufacturer of pipe and fittings. Cement shall be maintained at proper consistency throughout use.
- A. Galvanized pipe connections: Pipe joint compound shall be 'Rectorseal' or equivalent, non-hardening, non-toxic material designed specifically for use on threaded connections in water-carrying pipe.
- C. PVC threaded connections: Use Teflon tape or approved equal.
- D. Provide the Owner, at completion of the maintenance period, three each of all operating and servicing keys, wrenches, and adjustment screwdrivers required for complete maintenance and operation of all heads and valves. Include all wrenches necessary for complete disassembly of all heads and valves.

PART 3 – EXECUTION

3.01 SUPERVISION AND WORKMANSHIP

- A. The Contractor, personally or through an authorized and competent representative, shall supervise the work constantly and shall, as far as possible, keep the same foreman and workmen on the job from commencement to completion. The workmanship of the entire job shall in every way be first class, and only experienced and competent workmen shall be allowed on the job.

3.02 LAYOUT OF THE WORK

- A. Stake out the irrigation system as shown on the Drawings. Any necessary changes from the original system shall be determined at this time. Verify location of existing underground utilities and make any necessary adjustments to avoid damage.

3.03 INSTALLATION PREPARATION

- A. Schedule and coordinate placement of materials and equipment in a manner to complete the work as quickly as possible in conformance with construction and progress schedules.

3.04 COORDINATION OF WORK

- A. Coordinate work with other trades. In particular, schedule placement of irrigation line and wiring (Schedule 40) sleeves prior to paving work.

3.05 EXCAVATING, TRENCHING AND BACKFILL

- A. Excavation and Backfill for Sprinkler Lines:
 1. Excavation: Place when pipe and soil temperatures are approximately the same.
 2. Backfill and Compaction: Top 6 inches in landscaped areas may be 85 percent.
- B. Excavation shall be in all cases ample space for joining. Provide warning signs and barricades as needed for open trenches. Bottom of trenches shall provide continuous support for pipe.
- C. Make trenches for pipe lines deep enough to provide minimum cover from finish grade as follows:
 1. 18 inches minimum cover over mainlines and control wires to control valves and quick coupler valves, 24 inches under paving.
 2. 12 inches minimum cover over lateral lines. 24 inches under paving.
 3. When rocky conditions exist, as determined by the Owner's Representative, the bottom of all trenches shall have 3 inches of sand placed in them. Trenching depth shall be sufficient to allow for the 3 inches of bedding sand.
- D. Restore surfaces, existing underground installations, or other Site improvements damaged or cut as a result of excavations, to original condition in a manner approved by the Owner's Representative.
- E. Where other utilities interfere with irrigation trenching and pipe work, adjust the trench depth as instructed by the Owner's Representative.
- F. No work on excavating, trenching, or backfilling shall be done when soil is muddy, as determined by the Owner's Representative.

3.06 PIPELINE ASSEMBLY / PLASTIC PIPE

- A. All pipe shall be assembled free from dirt. Field cut ends shall be reamed only to full diameter, with rough edges and burrs removed.
- B. Solvent weld joints: Assemble PVC pipe using primer, solvents, and methods in accordance with manufacturer's recommendations. Wipe excess cement off the outside of the joints.
- C. For long pipe runs, 'snake' pipe from side to side in trench to allow for thermal expansion. Install pipe with manufacturer's labels face up for inspection before backfill.
- D. Threaded Joints:
 1. Field threading of plastic pipe or fittings is not permitted, factory formed threads only will be permitted.
 2. All plastic to metal connections shall be made with PVC male adapters. All screwed joints shall have Teflon tape applied to the male threads.
 3. Where assembling threaded plastic fittings, take up joint no more than one full turn beyond hand tight. Use strap-eye friction wrench only; do not use metal jawed wrench.
- E. Cap or plug openings as pipeline is assembled to prevent entrance of dirt or obstruction. Remove caps or plugs only when necessary to continue assembly.
- F. Where pipes or control wires pass through sleeves, provide removable non-decaying seal at ends of sleeve to prevent entrance of earth.
- G. Install concrete thrust blocks on the main line at all changes in pipe direction associated with PVC tee's, el's,

and other fittings as needed and as per detail on the plans. Do not cover thrust blocks until fully acceptable to the Owner's Representative.

3.07 REMOTE CONTROL VALVES (RCV)

- A. Install where shown and group together where practical. Limit one RCV per valve box. Locate in shrub or ground cover beds wherever possible.
- B. The valve designation (i.e.: controller and station no.) shall be painted on the inside of each valve box lid.
- C. Locate valves no closer than 12 inches from pavement or curbs, buildings, and walks.
- D. Thoroughly flush main line before installing valve.

3.08 AUTOMATIC CONTROL WIRING

- A. Run wires along main lines wherever practical. Tie wires in bundles with pipe wrapping tape at 20 foot intervals and allow slack for contraction between strapping. Place all above ground wiring in conduit.
- B. Make connections with 3M Brand DBY Direct Bury Splice Kit, shall splice and effectively moisture seal two or more conductors. The electrical connector shall be a 'Scotchlok' Y. The device shall be installed per manufacturer's instructions and all applicable codes. The device shall be UL Listed as a Wire Connector System For Use With Underground Conductors.
- C. Loop a minimum of three (3) feet of extra control wire and ground wire in each valve box and at all corners and at 200 foot intervals.
- D. Splicing will be permitted only at valve locations or in junction boxes, equivalent to valve boxes, and approved by Engineer.
- E. Where control lines pass under paving, or where interior wires are exposed, they shall pass through Schedule 40 PVC conduit.

3.09 AUTOMATIC CONTROLLER

- A. The automatic sprinkler controller is to be a new automatic controller. Reference irrigation equipment legend. Contractor is to provide the following:
 1. Furnish and install the new auto controller, controller steel enclosure, and or enclosure concrete base as specified.
 2. Provide all 100X electrical work required to heat the new controller.
 3. Provide all 120 volt electrical work required to reconnect the existing systems control wires to the new auto controller.
 4. Provide telephone service to controller location, if required per plan legend. Coordinate with installing contractor.
 5. Provide adequate electrical surge protection for the new automatic controller and as approved by the Owner's Representative.

3.10 ROOT ZONE WATER SYSTEM BUBBLER AND DRIP SYSTEM

- A. Install all root zone water system bubblers and sub-surface drip line in accordance with the plans and details contained within these drawings.

3.11 BACKFILLING

- A. Use earth excavated from trenches, free from rocks or other deleterious material. Avoid any sharp objects adjacent to pipe which could cause damage. At the Contractor's option, rock-free imported topsoil may be used to backfill around piping.
- B. All PVC piping is to be covered with a 3 inch layer of sand wherever the backfill is rocky in nature as determined by Owner's Representative.
- C. The sprinkler system trenches are to be backfilled in 6 inch lifts and adequately compacted to prevent subsequent settling.
- D. Finish Site. Site grade areas of backfill to match adjacent grade, removing any rocks or debris from the Obtain approval from the Owner's Representative for relocating any excess earth on
- E. If settlement occurs along trenches, make all necessary adjustments to bring irrigation system, soil and turf or paving to proper grade at no additional cost to the Contract.

3.12 FIELD QUALITY CONTROL

- A. PIPE TESTING: Notify Owner's Representative at least three (3) working days in advance of testing. All tests shall be at Contractor's expense. Use small amounts of backfill to stabilize pipe before testing, but keep all joints exposed. Test lines as follows:
 1. Trench Inspection and Main Line Pressure Test
 1. The Contractor shall not backfill pressure main line trench until an open trench inspection has been conducted and approved.
 2. Test all pressure lines and connections to quick coupler valves, remote control valves and gate valves under hydrostatic pressure of 120 pounds per square inch prior to installation of remote control valves.
 3. All piping under paved areas shall be tested under hydrostatic pressure of 120 pounds per square inch prior to paving.
 4. Sustain pressure in pressure lines for not less than twenty-four (24) hours. If leaks develop, replace joints and repeat test until entire system is proven watertight.
 5. All hydrostatic tests shall be made only in the presence of the Owner. No pipe shall be backfilled, except for center loading, until it has been observed, tested and approved in writing by the Owner. Should any work be covered up before such observation and tests are completed, the Contractor shall, at his own expense, uncover the work; and after it has been observed, tested and approved, he then shall make all repairs with such materials as required to restore all work disturbed to original and proper condition.
 6. Furnish necessary force pump and all other test equipment.
 - C. Flushing and Testing:
 - a. After new sprinkler piping and risers are in place and connected and necessary work has been completed, and prior to installation of sprinkler heads, open control valves and apply full head of water to flush out system.
 - b. After the system is thoroughly flushed, and prior to backfilling, cap off and pressure test system.
 - c. All testing to be in full compliance with the requirements of the specifications. B. Final System Test:
 1. When irrigation system is complete and all adjustments have been made, notify the Owner's Representative to arrange final testing of system. A complete test of the system shall be made with all equipment connected and operating. Make any necessary adjustments as required by the Owner's Representative and retest as needed for final approval of system.
- C. Manufacturer's Field Service:
 1. Equipment manufacturer for controllers and automatic control valves shall provide one half day of field training in the operation and maintenance of the equipment to the Owner.
 2. Equipment manufacturer for controllers, automatic control valves, and sprinklers shall inspect the installed system and its operation and certify in writing its proper installation and operation.

3.13 GUARANTEE

- A. Submit in writing to the Owner's Representative.
- B. It shall be the responsibility of the Contractor to fill and repair all depressions and replace all necessary paving or plating due to the settlement of irrigation trenches for one year following completion and acceptance of the job.
- C. The Contractor shall guarantee all materials, equipment, and workmanship furnished by him to be free of all defects of workmanship and materials, and shall agree to replace at his expense at any time within one year after installation is accepted, any and all defective parts that may be found. In cases where emergency repairs are needed, or if the Contractor is not immediately available for repair work, the Owner shall have the option of making repairs at the Contractor's expense.

3.14 CLEAN-UP

- A. The Contractor shall keep his work areas in a workmanlike and safe condition and so his rubbish, waste, and debris does not interfere with the work.
- B. Upon completion of work in this Section, remove all rubbish, waste and debris from Site.
- C. Remove all equipment and implements of service, leave entire area in a neat and clean condition to meet acceptance by the Owner's Representative.

3.15 WATER EFFICIENT LANDSCAPE COMPLIANCE CERTIFICATE OF COMPLETION

- A. The Contractor shall comply with the completion of all forms associated with the Certificate of Completion associated with the Water Efficient Landscape Compliance Certificate of Completion.

END OF SECTION

No.	DATE	REVISION	BY	EG
1				
2		Attachment #1		
		Attachment No. 2:		

Original work by Omnimeans

SAN LUIS OBISPO
HERMOSA STREET/WESTWOOD AVENUE
ROUNDABOUT LANDSCAPE PROJECT - NO. 1
CITY OF LINDSAY
CITY OF LINDSAY

IRRIGATION SPECIFICATIONS
HERMOSA STREET/WESTWOOD AVENUE
ROUNDABOUT LANDSCAPE PROJECT - NO. 1
CITY OF LINDSAY

SCALE	AS SHOWN
JOB NO.	CS21-1
DESIGNED	LRP
DRAWN	LRP
FILE	
UPDATED	EH
DATE	01/29/2024

**SECTION ONE
C - BID PROPOSAL
CITY OF LINDSAY
Hermosa Street/Westwood Avenue Roundabout Landscape Project – No. 1
Lindsay, California**

Ladies & Gentlemen:

The undersigned hereby declares, as Bidder, that the only persons or parties interested in this proposal as principals, are those named herein, that no public officer or employee of the City is in any manner interested directly or indirectly in this proposal or in the profits to be derived from the contract proposed to be taken; that this bid is made without any connection with any other person or persons making a bid for the same purpose; that the bid is in all respects fair and without collusion or fraud; that he has read the Notice of Inviting Bids and the Specifications and agrees to all the stipulations contained herein; that he has examined the site of the work, the form of Agreement and the Specifications and drawings referred to therein.

The undersigned hereby proposes and agrees to furnish all of the material, labor, equipment, transportation and services for the construction and completion of the work listed below, all in strict conformity with the Plans, Specifications and other contract documents on file at the City, at the unit prices listed below.

If awarded the contract, the undersigned agrees to sign said contract and furnish the necessary bonds and insurance policies within ten (10) calendar days after the Notice of Award of contract.

The undersigned has checked carefully all of the prices quoted and understands that the City of Lindsay will not be responsible for any errors or omissions on the part of the undersigned in making up this Bid Proposal.

Attached please find Bidder’s Bond, certified check, or cashier’s check, for \$ _____, which amount is not less than ten percent (10%) of the total amount of this bid.

BIDDING SHEET

The work under this Specification is for the construction of the City of Lindsay, **Hermosa Street/Westwood Avenue Roundabout Landscape Project – No. 1** for the City of Lindsay all as described in this Specification and as shown on Plans.

The City reserves the right to:

- 1. Accept or reject any or all bids.
- 2. Award the contract to the lowest responsible Bidder for the Base Bid, if selected.
- 3. Waive any defects.
- 4. Accept all or any portion of the BID SCHEDULE.

The undersigned hereby certifies that he has a valid license as contractor **Class “C-27” Landscaping Contractor License**, in the State of California, the number of which is _____ and expiration of which is _____. I hereby declare that this information is valid and submitted under penalty of perjury in compliance with Business and Professions Code Section 7028.15.

Signed Title

The undersigned hereby proposes and agrees to furnish all of the material, labor, equipment, transportation and services necessary for the construction of the **Hermosa Street/Westwood Avenue Roundabout Landscape Project – No. 1**, all in strict conformity with the Plans and Specifications on file with the City of Lindsay. Bids shall include sales tax and all other applicable taxes and fees. Completion time is defined as the number of calendar days necessary to complete the defined work items from the date of the Notice to Proceed.

In accordance with Section 4552 of the Government Code, the bidder shall conform to the following requirements. In submitting a bid to the City, the bidder offers and agrees that if the bid is accepted, it will assign to the City all rights, title and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C.) or under the Cartwright Act (Chapter 2, commencing with Section 16700, of Part 2 of Division 7 of the Business and Professions Code), arising from purchase of goods, materials, or services by the bidder.

BID SCHEDULE

The Bid Schedule(s) list the various divisions of construction contemplated in the Plans and Specifications, together with an estimate of the units each. With these units as the basis, the Bidder will extend each item, using the cost he inserts in the unit column. Any total cost found inconsistent with the unit cost shall be considered incorrect. Unit cost figures shall be considered correct and adjustments made accordingly.

The Bid prices shall be in ink or typewritten and the sum entered in figures. The following quantities of work to be done and materials to be furnished are given as a basis for the comparison of bids. The City reserves the right to increase or decrease the quantities of any items as necessary or expedient.

All items shall be complete in place and bids shall include sales tax and all other applicable taxes and fees.

Witness our hands this _____ day of _____, 20____.

Signature of bidder, with business addresses and phone number.

Individual Contractor Name:

Address: _____

Partnership Name:

Business Address: _____

By:

Partner.

Other Partners:

Corporation Name:

Business Address:

By: _____,
President

_____,
Secretary

(Corporate Seal)

Organized under the laws of the State of

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned, _____ as Principal and _____ as Surety, are hereby held and firmly bound unto THE CITY OF LINDSAY as Owner, in the penal sum of ten percent (10%) of the total amount of the bid of Principal for the work, this sum not to exceed _____ Dollars (\$_____) of lawful money of the United States for the payment thereof unto THE CITY OF LINDSAY, Principal and Surety, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.

The condition of the above obligation is such that whereas the Principal has submitted to the CITY OF LINDSAY a certain Bid, attached hereto and hereby made a part hereof to enter into a contract in writing, for the

City of Lindsay
Hermosa Street/Westwood Avenue Roundabout Landscape Project – No. 1

NOW THEREFORE,

- a. If said Bid shall be rejected, or in the alternate,
- b. If said Bid shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said Bid) and shall furnish a bond for his faithful performance of said contract and for the payment of all persons performing labor or furnishing materials in connection therewith and shall in all other respects perform the agreement created by the acceptance of said Bid, then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligation of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Owner may accept such Bid; and Surety does hereby waive notice of any extension.

Surety shall be liable under this obligation as Principal. Nothing of any kind or nature whatsoever that will not discharge the Principal shall operate as a discharge or a release of liability of the Surety.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals and such of them as are corporation have caused their corporate seals to be hereto affixed and these presents to be signed by their property officers, the day and year first set forth above.

Contractor, Individual, Partnership, or Corporation

Surety

By: _____

By: _____

**DECLARATION OF NON-COLLUSION TO BE EXECUTED BY
BIDDER AND SUBMITTED WITH BID**

State of California

County of _____)

I, _____, declare as follows:

I am the _____ (Title) of _____ (Name of Bidder) the party making the foregoing bid, that the bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on _____ [Date], at _____ [City], _____ [State].

Signature of Bidder

**PROPOSAL
INFORMATION REQUIRED OF BIDDER**

The Bidder is required to supply the following information. Additional sheets may be attached if necessary.

(1) Address: _____

Phone No. _____ Fax No. _____ E mail/Web page _____

(2) Type of Firm: Individual, Partnership, LLC or Corporation: _____

(3) Corporation/LLC organized under the laws of the State of _____

(4) List the names of all shareholders directors and officers of the corporation or names of all members, managers, and officer of the LLC:

(5) Number of years experience as a licensed contractor in this type of construction work: _____

(6) Subcontractors Listing. Please complete the section below with all subcontractors that will be performing work in or about the work or improvement in excess of one-half (1/2) of one percent (1%) of the total bid price. Attach additional pages as necessary.

BASE BID

	Type	DIR	Subcontractor	Dollar Amt.	Total
No.	Work	#	Name, Address, Phone, FAX	of Contract	Percentage
1					
2					
3					
4					
5					
6					
7					
8					

ALTERNATE BID

No.	Type Work	DIR #	Subcontractor Name, Address, Phone, FAX	Dollar Amt. of Contract	Total Percentage
1					
2					
3					
4					
5					
6					
7					
8					

(7) List the name of the person who inspected the site of the proposed work for your firm: _____ . Date of Inspection: _____

(8) List 3 projects minimum and the owners and project manager and contact of similar size and type of construction; include the total base dollar figure and the final constructed dollar figure. (Attach additional page if necessary):

1. _____
2. _____
3. _____

(9) The General Contractor and all listed subcontractors shall submit with this proposal an organizational chart listing current employee names and titles. The General Contractor and all listed subcontractors shall identify the proposed project manager and foremen and include the length of employment with the company and years of experience with this type of construction. The General Contractor and all listed subcontractors shall also list the equipment owned that will be utilized on this project and list equipment not owned that is anticipated to be rented/purchased to complete this project.

(10) If requested by the City, the Bidder shall furnish a certified financial statement, financial data, or other information and references sufficiently comprehensive to permit an appraisal of his current financial condition.

The undersigned acknowledges that the quantities of work specified are approximate only, are the quantities which will be required to the best knowledge of the City at this time and are set forth herein for the purpose of comparing bids.

The City reserves the right to reject all bids or waive any informality and to award the bid to the responsible bidder on any Schedule.

The undersigned agrees, if awarded the Contract, to begin work within ten (10) calendar days after the date of the Notice to Proceed and to fully complete all work within the number of calendar days stipulated in the Instruction to Bidders after the date of the Notice to Proceed.

Receipt is hereby acknowledged of Addenda Number(s)

_____.

The undersigned is licensed in accordance with the laws of the State of California, Class “ _____ ”
_____ Contractor License.

Individual Contractor

Name: _____

Address: _____

Partnership

Name: _____

Business Address: _____

By: _____

Partner.

Other Partners: _____

Corporation

Name: _____

Business Address: _____

By: _____, President.

_____, Secretary

Organized under the laws of the State of

(Corporate Seal)

LLC

Name: _____

Business Address: _____

By: _____, Manager

Organized under the laws of the State of

BID SCHEDULE
City of Lindsay
Hermosa Street/Westwood Avenue Roundabout Landscape Project – No. 1
Page 1

I. Selection Schedule

The tentative schedule and sequence of this RFQ/RFP is as follows:

- Release RFP Notice - January 31, 2024
- Final day for Submission of Questions to City - February 20, 2024 by 12:00 PM
- Final responses to Questions - February 22, 2024 by 2:00 PM
- **Deadline for Submission of RFQ/RFP** - February 27, 2024 by 2:00 PM

BID SCHEDULE
City of Lindsay
Hermosa Street/Westwood Avenue Roundabout Landscape Project – No. 1
Page 2

Base Bid Schedule

Item No.	Description	Quantity	Unit	Unit Price	Total Price
1	Mobilization/Demobilization	1	LS	\$	\$
2	Prepare and Maintain Pedestrian and Traffic Control Plan(s)	1	LS	\$	\$
3	Clearing, Grubbing, Grading at Roundabout	1	LS	\$	\$
4	Placement of Imported Topsoil at Roundabout	75	CY	\$	\$
5	Clearing, Grubbing, Grading at Median Islands & Street Returns	1	LS	\$	\$
6	Irrigation System	1	LS	\$	\$
7	Decomposed Granite Bedding Under Artificial Turf	40	CY	\$	\$
8	Artificial Turf	5300	SF	\$	\$
9	Ground Level Flood Lights	6	EA	\$	\$
10	5-Gallon Fruitless “Majestic Beauty” Olive Tree	3	EA	\$	\$
11	Gravel Rock Mulch	8.0	CY	\$	\$
12	¼ - Ton Granite Coarse Rock	4	EA	\$	\$
13	5-Gallon Atlas Fescue (Festuca Mairei)	15	EA	\$	\$
14	5-Gallon Fortnight Lily (Dietes Iridioides)	15	EA	\$	\$
15	1-Gallon New Gold Lantana (Lantana X)	15	EA	\$	\$
16	90-Day Maintenance Period	1	LS	\$	\$

***Total Base Bid Schedule Amount (\$):** _____

***Total Amount of Base Bid Schedule (Written in Words) is:**

_____ **Dollars and** _____ **Cents.**

- In the event of discrepancy between words and figures, the words shall prevail and in the event of discrepancy between unit prices and total, the unit prices shall prevail.
- Mobilization shall not exceed 5% of the total bid amount.
- Prevailing wage rates and associated requirements apply to the work to be performed under this bid.

The award of the Contract, if it be awarded, will be made within sixty (60) days after the opening of the bids. Unless required by law, a bidder cannot withdraw its bid during said 60-day period after the time set for the opening of all bids. A cashier's check, certified check or bidder's bond of ten percent (10%) of the bid must be enclosed with the bid.

The City hereby reserves the right to reject any and all bids and/or waive any irregularity in any bid received and/or determine in its sole discretion the responsibility of any bidder and which bid is most advantageous to the City.

Each Bidder must accompany his bid with either a cashier's check upon some responsible bank, or a check upon such bank properly certified, or an approved corporate surety bond payable to the City of Lindsay, for a sum not less than ten percent (10%) of the aggregate sum of the bid, which check or bond and the monies represented thereby shall be held by the said City as a guarantee that the Bidder, if awarded a contract, will in good faith enter into such contract and furnish the required bonds and insurance policies. Such bid bond shall be in a form acceptable by the City.

The Bidder agrees that, in case of his refusal or failure to execute said contract and provide said bonds and insurance policies within the time required by these documents, such check or bond and the money represented thereby, shall remain the property of the City party hereto and, said surety will pay to the City, as liquidated damages, for all damages which the City may suffer by reason of such failure, the sum of ten percent (10%) of the amount of the bid. A Bid received and not accompanied by such cashier's check, certified check, or approved bond, shall be rejected.

The undersigned agrees that, should the work not be completed within the time stated in the required contract, from and after the date the contractor is instructed to proceed by the City or its designee, an amount equal to eight hundred (\$800.00) per calendar day for each day of delay after the expiration of such period shall be deducted from the sum to be paid under the required contract.

BID SCHEDULE
City of Lindsay
Hermosa Street/Westwood Avenue Roundabout Landscape Project – No. 1
Page 4

Individual Contractor Name:

Address: _____

Partnership Name:

Business

Address: _____

By: _____

Partner.

Other

Partners: _____

Corporation Name:

Business Address:

By: _____,

President.

_____,

Secretary

(Corporate Seal)

Organized under the State laws of:

BID SCHEDULE
City of Lindsay
Hermosa Street/Westwood Avenue Roundabout Landscape Project – No. 1
Page 5

LLC Name:

Business Address:

By: _____,

Manager

Organized under the State laws of:

bid item will be paid per Square Foot.

- ~~• **Base Bid Item No. 9 – Ground Level Flood Lights:** Payment under this item shall be for all furnishing of labor, services, tools, equipment, materials, appurtenances, and incidentals required for the complete installation of six (6) ground level flood lights, included but not limited to, the connection the power source, all necessary wiring, installation of 1” PVC sleeves, anchoring of lights, and all necessary work for the installation of the ground lights per the plans and specifications. This bid item will be paid per Each.~~
- **Base Bid Item No. 10 – 5-Gallon Fruitless “Majestic Beauty” Olive Tree:** Payment under this item shall be for all furnishing of labor, services, tools, equipment, materials, appurtenances, and incidentals required for the installation of three (3) 5-gallon fruitless “Majestic Beauty” olive trees at the locations shown on plans. This bid item will be paid per Each.
- **Base Bid Item No. 11 – Gravel Rock Mulch:** Payment under this item shall be for all furnishing of labor, services, tools, equipment, materials, appurtenances, and incidentals required for the installation and placement of a 2” layer of $\frac{3}{4}$ ” crushed rock in the “harvest gold” color to the lines and limits shown on the plans that are within the central island of the roundabout. This bid item will be paid by Cubic Yard.
- **Base Bid Item No. 12 – $\frac{1}{4}$ Ton Granite Coarse Rock:** Payment under this item shall be for all furnishing of labor, services, tools, equipment, materials, appurtenances, and incidentals required for the installation and placement of four (4) $\frac{1}{4}$ - ton granite course rocks per the plans and these specifications. This bid item will be paid per Each.
- **Base Bid Item No. 13 – 5-Gallon Atlas Fescue (*Festuca Mairei*):** Payment under this item shall be for all furnishing of labor, services, tools, equipment, materials, appurtenances, and incidentals required for the installation, placement, and planting of the Atlas Fescue plant within the central island of the roundabout per plans and specifications. The plant locations shown in plans are not meant to be specific. The City will confer with the Contractor prior to any landscape work and agree on the proper location and the number of plants to place in the central island of the roundabout. This bid item will be paid per Each.
- **Base Bid Item No. 14- 5-Gallon Fortnight Lily (*Diets Iridioides*):** Payment under this item shall be for all furnishing of labor, services, tools, equipment, materials, appurtenances, and incidentals required for the installation, placement, and planting of the Fortnight Lily plant within the central island of the roundabout per plans and specifications. The plant locations shown in plans are not meant to be specific. The City will confer with the Contractor prior to any landscape work and agree on the proper location and the number of plants to place in the central island of the roundabout. This bid item will be paid per Each.
- **Base Bid Item No. 15 – 1-Gallon New Gold Lantana (*Lantana X*):** Payment under this item shall be for all furnishing of labor, services, tools, equipment, materials, appurtenances, and incidentals required for the installation, placement, and planting of the New Gold Lantana plant within the central island of the roundabout per plans and specifications. The plant locations shown in plans are not meant to be specific. The City will confer with the Contractor prior to any landscape work and agree on the proper location and the number of plants to place in the central island of the roundabout. This bid item will be paid per Each.

Technical Provisions and the Plans.

- **Base Bid Item No. 3 – Clearing, Grubbing, Grading at Roundabout:** Work under this item shall include, but not limited to, compensation for the personnel, labor, equipment, materials, tools, appurtenances, and incidentals necessary for performing all work at the Roundabout to the lines and limits shown in the plans and in accordance with Sections 01060, 02110, and 02210 of these Technical Provisions including excavation, grading operations, compacting, backfilling, testing, exporting, soil preparation, erosion control, dust control, sedimentation control, and use of Best Management Practices (BMPs) per City and County Standards.
- **Base Bid Item No. 4 – Placement of Imported Topsoil at Roundabout:** Work under this item shall include, but not limited to, compensation for the personnel, labor, equipment, materials, tools, appurtenances, and incidentals necessary for performing all work necessary for importing and placing a 24” thick layer of topsoil per plans and in accordance with Sections 01060, 01100, 01300, 02210, and 02220 of these Technical Provisions including excavation, grading operations, compacting, backfilling, testing, exporting, soil preparation, erosion control, dust control, sedimentation control, and use of Best Management Practices (BMPs) per City and County Standards.
- **Base Bid Item No. 5 – Clearing, Grubbing, Grading at Median Islands & Street Returns:** Work under this item shall include, but not limited to, compensation for the personnel, labor, equipment, materials, tools, appurtenances, and incidentals necessary for performing all work at the median islands and adjacent street returns to the lines and limits shown in the plans and in accordance with Sections 01060, 02110, and 02210 of these Technical Provisions including excavation, grading operations, compacting, backfilling, testing, exporting, soil preparation, erosion control, dust control, sedimentation control, and use of Best Management Practices (BMPs) per City and County Standards.
- **Base Bid Item No. 6 – Irrigation System:** Work under this item shall include, but not limited to, compensation for the personnel, labor, equipment, materials, tools, appurtenances, and incidentals necessary for the installation of a full irrigation system per the Irrigation Plans and these specifications.
- **Base Bid Item No. 7 – Decomposed Granite Bedding Under Artificial Turf:** Work under this item shall include, but not limited to, compensation for the personnel, labor, equipment, materials, tools, appurtenances, and incidentals necessary for the installation of a 2” thick layer of decomposed granite under the artificial turf areas per plans and in accordance with Sections 01060, 01100, and 02210 of these Technical Provisions including compaction, grading, exporting, excavation, watering, and all other work and materials necessary to complete the decomposed granite work.
- **Base Bid Item No. 8: Artificial Turf:** Work under this item shall include, but not limited to, compensation for the personnel, labor, equipment, materials, tools, appurtenances, and incidentals necessary for the installation of artificial turf as identified in the plans and specifications to the lines and limits shown. The installation of artificial turf shall be per the Manufacturer’s recommendation and shall include the necessary hardware and methodology needed to properly anchor the newly laid artificial turf.
- ~~**Base Bid Item No. 9 – Ground Level Flood Lights:** Work under this item shall include, but not limited to, compensation for the personnel, labor, equipment, materials, tools, appurtenances, and~~

~~incidentals necessary for the complete installation of six (6) ground level flood lights, included but not limited to, the connection the power source, all necessary wiring, installation of 1" PVC sleeves, anchoring of lights, and all necessary work for the installation of the ground lights per the plans and specifications. This bid item will be paid per Each.~~

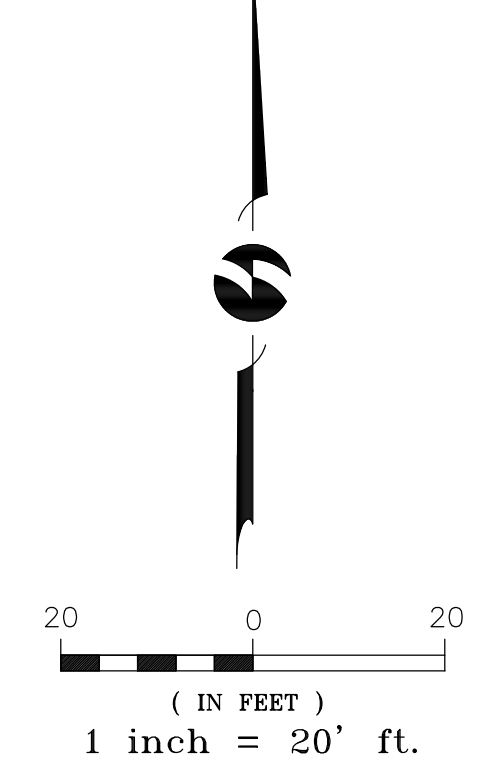
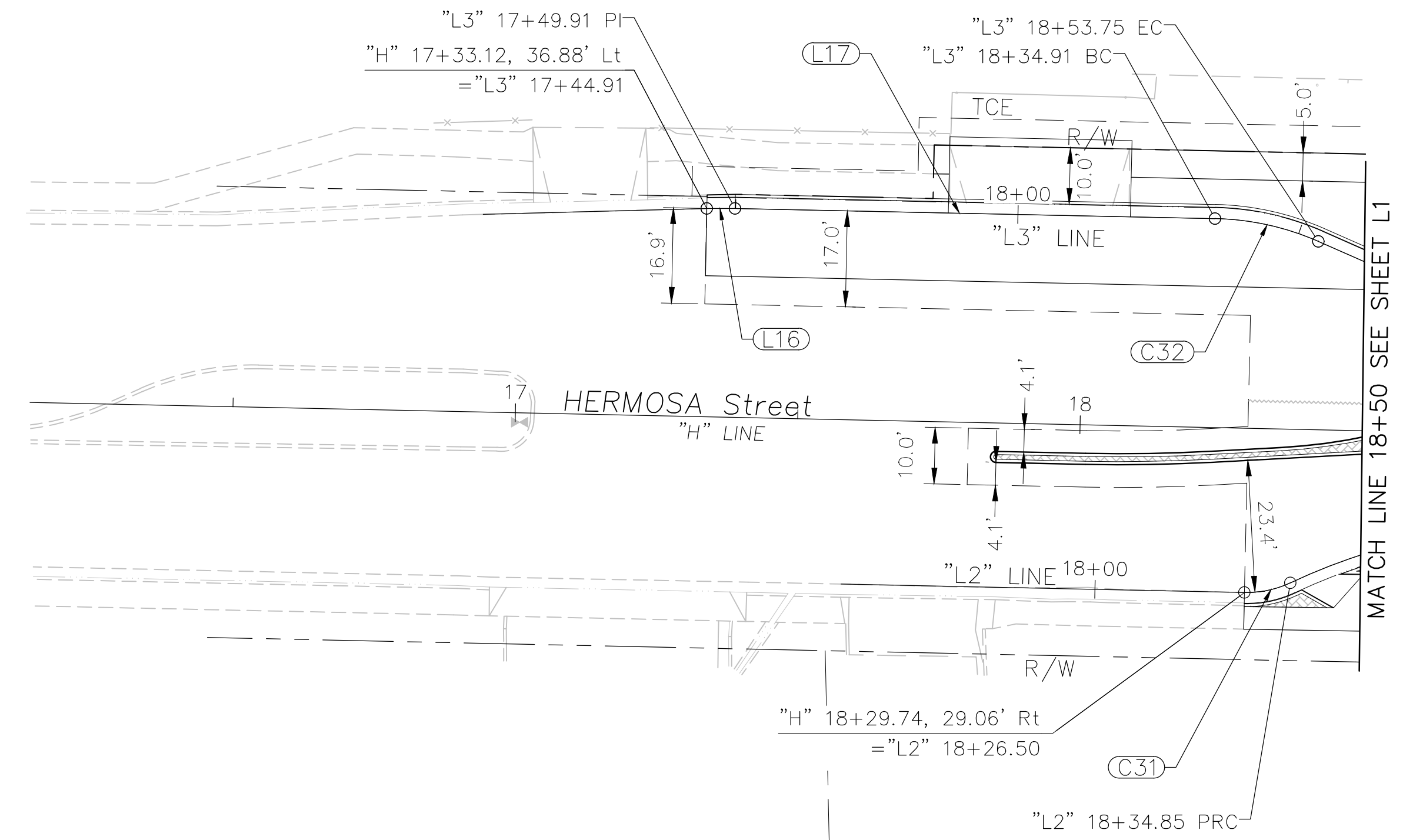
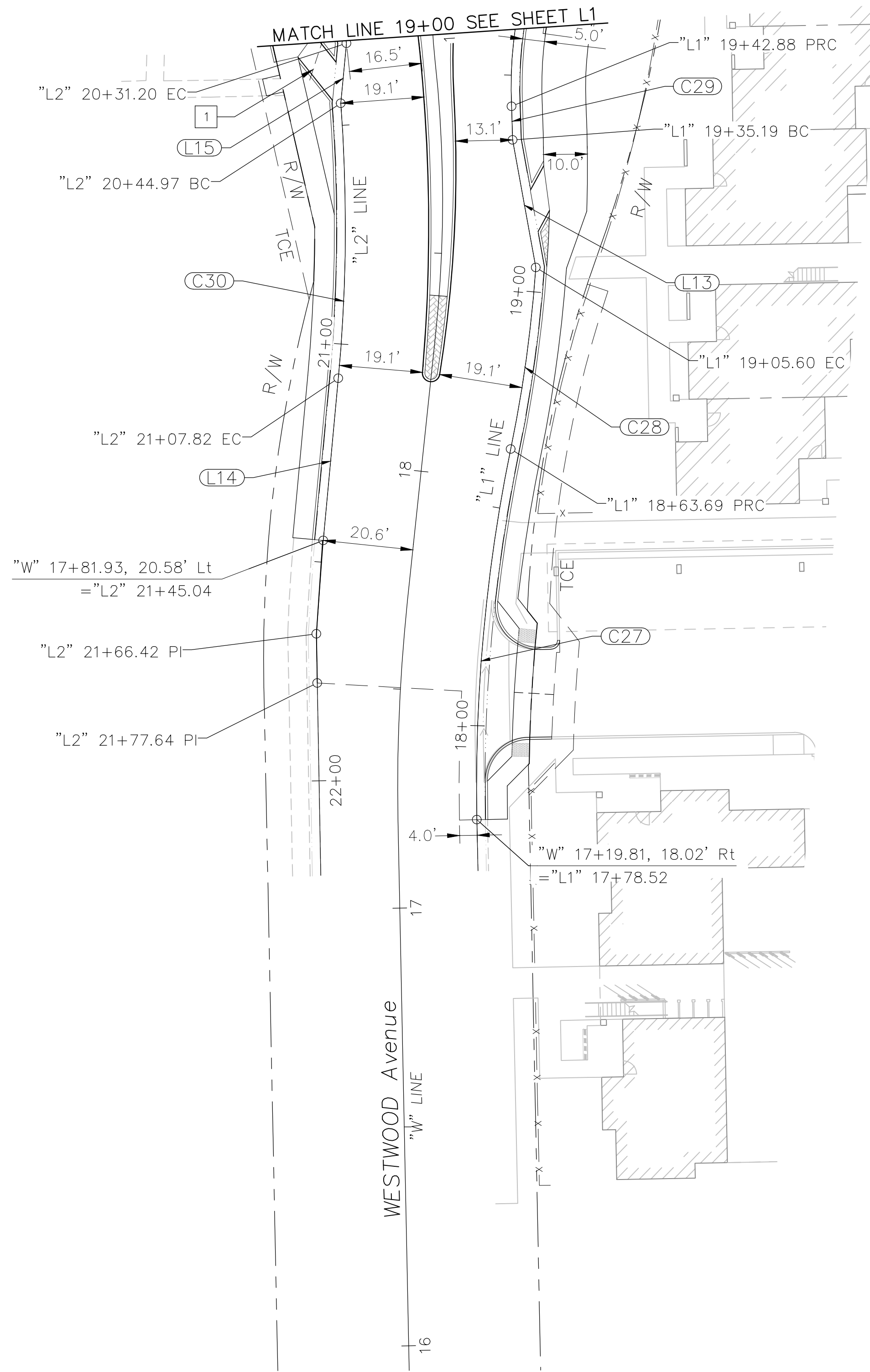
- **Base Bid Item No. 10 – 5-Gallon Fruitless “Majestic Beauty” Olive Tree:** Work under this item shall include, but not limited to, compensation for the personnel, labor, equipment, materials, tools, appurtenances, and incidentals necessary for the installation of three (3) 5- gallon fruitless “Majestic Beauty” olive trees per the locations shown on the plans.
- **Base Bid Item No. 11 – Gravel Rock Mulch:** Work under this item shall include, but not limited to, compensation for the personnel, labor, equipment, materials, tools, appurtenances, and incidentals necessary for the installation and placement of a 2” layer of 3/4” crushed rock in the “harvest gold” color to the lines and limits shown on plans within the central island of the roundabout. The gravel rock mulch shall be spread evenly to a depth of 2” across the central island of the roundabout. Contractor shall submit samples to the City for review and approval prior to ordering.
- **Base Bid Item No. 12 – ¼ Ton Granite Coarse Rock:** Work under this item shall include, but not limited to, compensation for the personnel, labor, equipment, materials, tools, appurtenances, and incidentals necessary for the installation and placement of four (4) ¼- ton granite course rocks per the plans and these specifications. Contractor shall provide photos and source location of representative rocks for City review and approval prior to the purchase and placement of the material.
- **Base Bid Item No. 13 – 5-Gallon Atlas Fescue (Festuca Mairei):** Work under this item shall include, but not limited to, compensation for the personnel, labor, equipment, materials, tools, appurtenances, and incidentals necessary for the installation, placement, and planting of the Atlas Fescue plant within the central island of the roundabout per plans and specifications. The plant locations shown in plans are not meant to be specific. The City will confer with the Contractor prior to any landscape work and agree on the proper location and the number of plants to place in the central island of the roundabout. Prior to the purchase of the Atlas Fescue, the Contractor shall provide the name and location of the supplier and shall provide a representative sample for the City to review and approve.
- **Base Bid Item No. 14 – 5-Gallon Fortnight Lily (Diets Iridioides):** Work under this item shall include, but not limited to, compensation for the personnel, labor, equipment, materials, tools, appurtenances, and incidentals necessary for the installation, placement, and planting of the Fortnight Lily plant within the central island of the roundabout per plans and specifications. The plant locations shown in plans are not meant to be specific. The City will confer with the Contractor prior to any landscape work and agree on the proper location and the number of plants to place in the central island of the roundabout. Prior to the purchase of the Fortnight Lily, the Contractor shall provide the name and location of the supplier and shall provide a representative sample for the City to review and approve.
- **Base Bid Item No. 15 – 1-Gallon New Gold Lantana (Lantana X):** Work under this item shall include, but not limited to, compensation for the personnel, labor, equipment, materials, tools, appurtenances, and incidentals necessary for the installation, placement, and planting of the New Gold Lantana plant within the central island of the roundabout per plans and specifications. The

ALIGNMENT CURVE TABLE				
No.	LINE	R	DELTA	L
C27	"L1"	382.00'	N05°13'22"E	85.16'
C28	"L1"	318.00'	N07°49'59"E	41.92'
C29	"L1"	312.00'	N01°55'19"W	7.69'
C30	"L2"	374.00'	S00°30'07"W	62.85'
C31	"L2"	18.00'	N78°09'29"E	8.36'
C32	"L3"	48.00'	S77°32'14"E	18.84'

ALIGNMENT LINE TABLE			
No.	LINE	BEARING	L
L13	"L1"	N10°15'56"W	29.59
L14	"L2"	S05°18'59"W	37.22
L15	"L2"	S05°26'03"W	13.77
L16	"L3"	N89°47'24"E	5.00
L17	"L3"	S88°46'53"E	85.00

KEYED NOTES:

- 1 INSTALL 4" CONDUIT, WITH PULL TAPE AND TRACING WIRE (FOR LANDSCAPING USE)



REVISION	DATE	BY

omni-means
A GHD Company

San Luis Obispo, CA 93401
San Jose, CA 95128
San Francisco, CA 94107
Tel: 805.762.5000
Fax: 805.762.5001
www.omni-means.com

LAYOUT

HERMOSA ST/ WESTWOOD AVE ROUNDABOUT
CITY OF LINDSAY
LINDSAY, CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
JOSEPH W. WELAND
No. C53755
CIVIL
STATE OF CALIFORNIA

SCALE	1"=20'
JOB NO.	11151288
DESIGNED	SMH
DRAWN	ELM
FILE	2422L002.dwg
CHECKED	JWW
DATE	6/29/18

L2

9 OF 44



Know what's below.
Call before you dig.

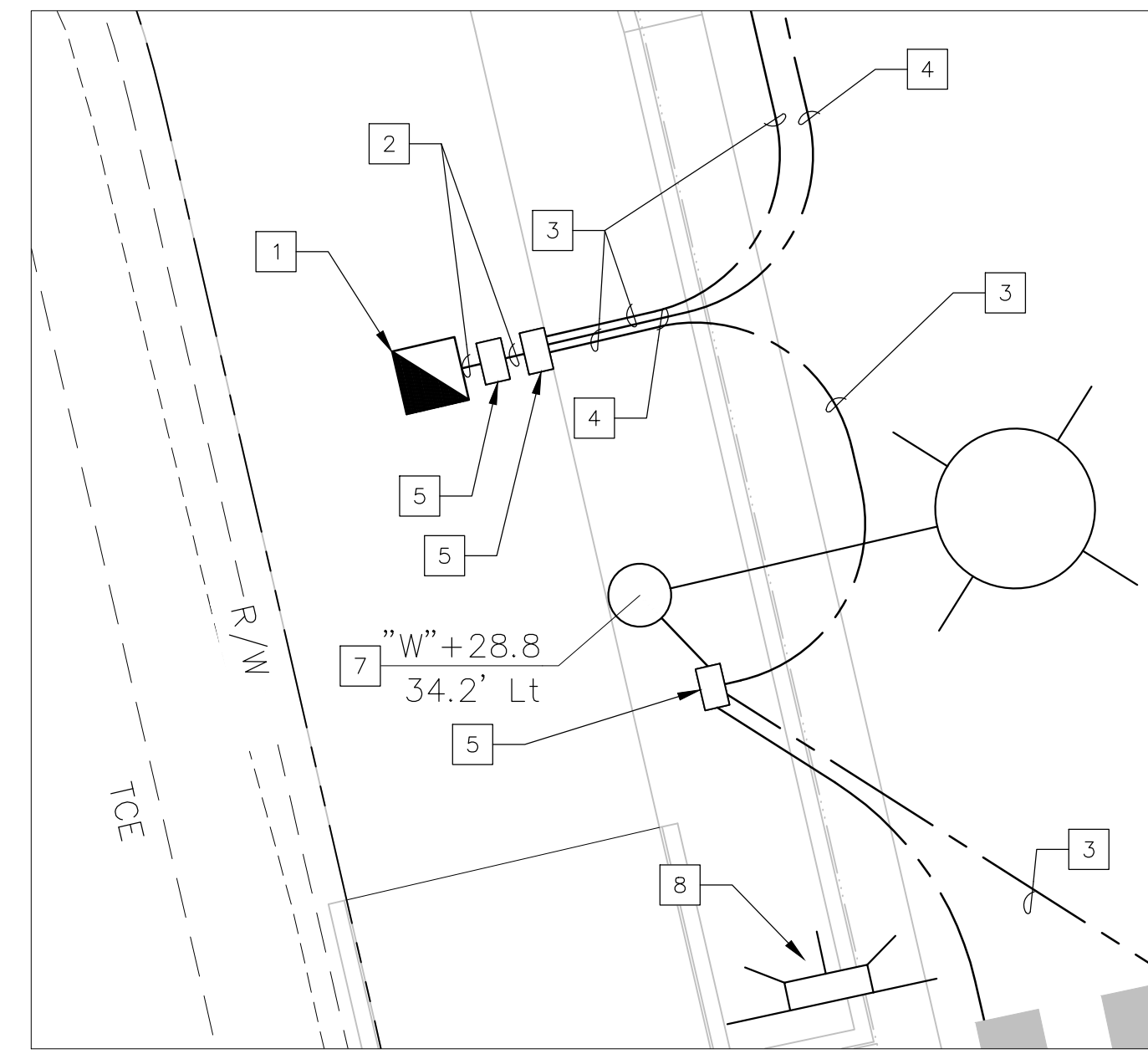
Contractor shall call
Underground Service Alert at
811 two working days prior
to excavation

LEGEND:

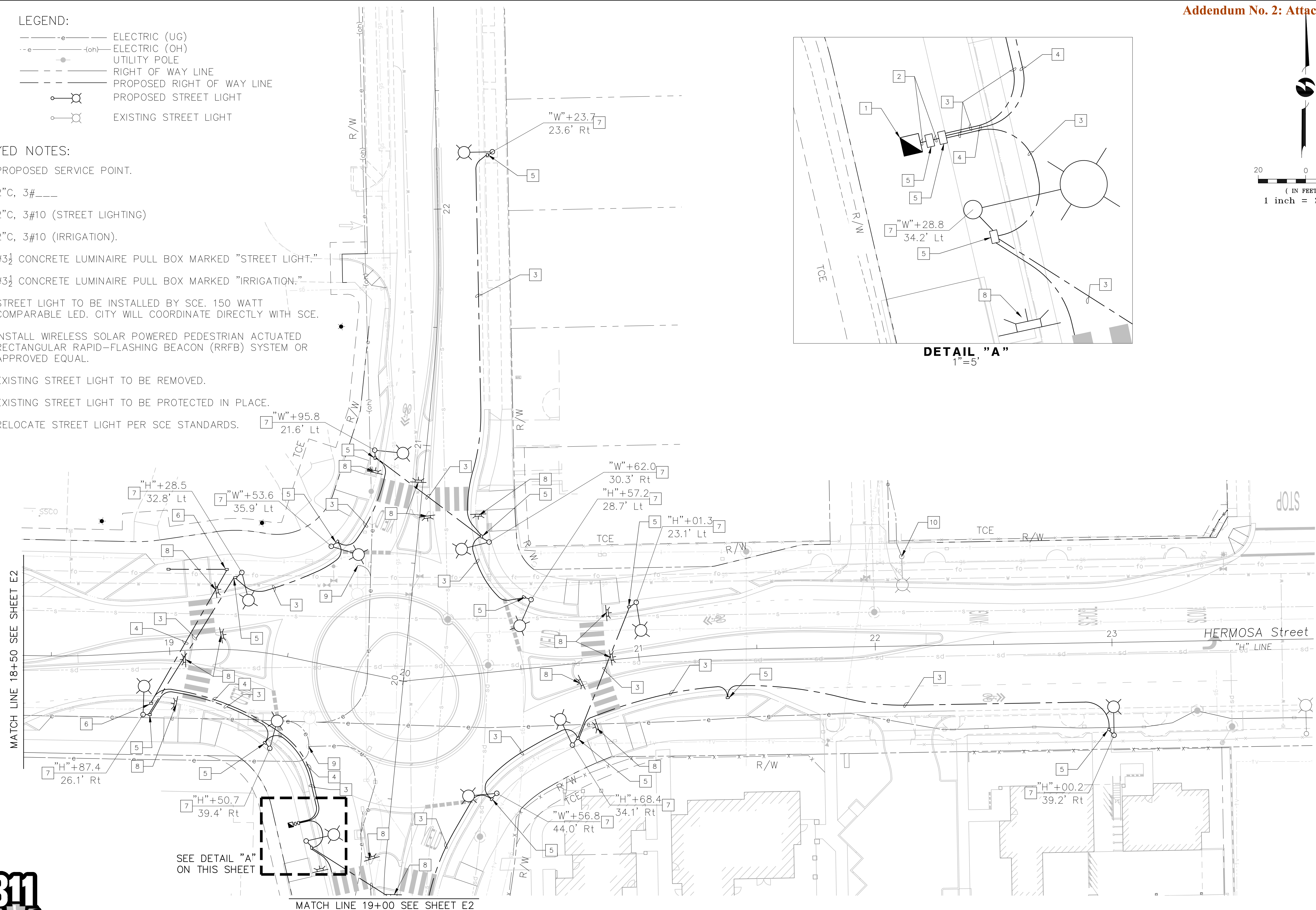
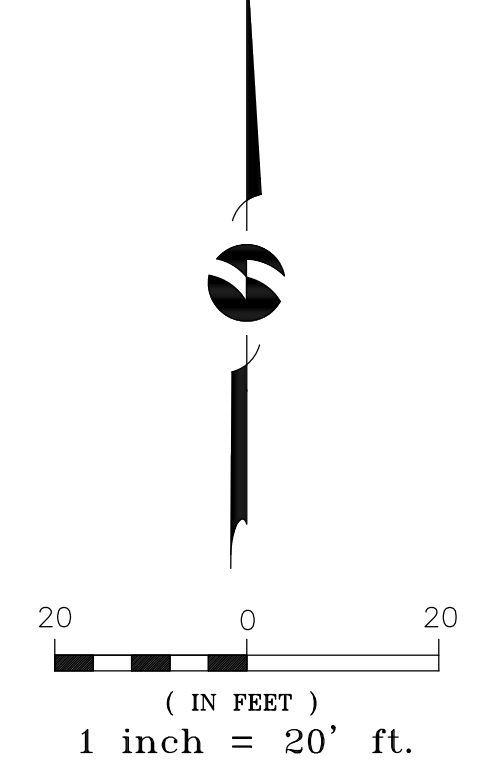
- e- ELECTRIC (UG)
- e- (oh) ELECTRIC (OH)
- UTILITY POLE
- RIGHT OF WAY LINE
- - - PROPOSED RIGHT OF WAY LINE
- PROPOSED STREET LIGHT
- EXISTING STREET LIGHT

KEYED NOTES:

- 1 PROPOSED SERVICE POINT.
- 2 2" C, 3# ---
- 3 2" C, 3#10 (STREET LIGHTING)
- 4 2" C, 3#10 (IRRIGATION).
- 5 #3½ CONCRETE LUMINAIRE PULL BOX MARKED "STREET LIGHT."
- 6 #3½ CONCRETE LUMINAIRE PULL BOX MARKED "IRRIGATION."
- 7 STREET LIGHT TO BE INSTALLED BY SCE. 150 WATT COMPARABLE LED. CITY WILL COORDINATE DIRECTLY WITH SCE.
- 8 INSTALL WIRELESS SOLAR POWERED PEDESTRIAN ACTUATED RECTANGULAR RAPID-FLASHING BEACON (RRFB) SYSTEM OR APPROVED EQUAL.
- 9 EXISTING STREET LIGHT TO BE REMOVED.
- 10 EXISTING STREET LIGHT TO BE PROTECTED IN PLACE.
- 11 RELOCATE STREET LIGHT PER SCE STANDARDS.



DETAIL "A"
1"=5'

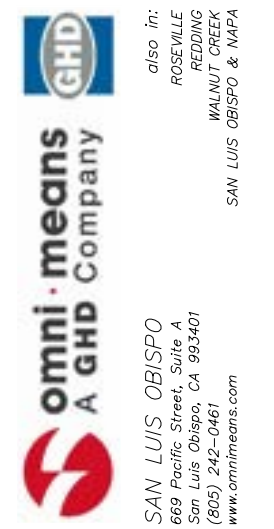


SEE DETAIL "A"
ON THIS SHEET



Know what's below.
Call before you dig.

Contractor shall call
Underground Service Alert at
811 two working days prior
to excavation



STREET LIGHTING PLAN
HERMOSA ST/ WESTWOOD AVE ROUNDABOUT
CITY OF LINDSAY
LINDSAY, CALIFORNIA



SCALE	1"=20'
JOB NO.	11151288
DESIGNED	SMH
DRAWN	SMH
FILE	2422E001.dwg
CHECKED	JWW
DATE	6/29/18

E1



VALVE	FILTER	PRESSURE REGULATOR
<ul style="list-style-type: none"> • Decades of proven performance for peace of mind • Commercial or Residential • Low, medium, and high flow rates • Valves for reclaimed water • Valves with Anti-Siphon • Low flow without weeping 	<ul style="list-style-type: none"> • Prevents sediments and impurities from entering the drip system • Extends the life of the drip system for years to come • Basket filters with quick check indicators • Easy to clean commercial disk filters for harsh water 	<ul style="list-style-type: none"> • Pressure Regulation ensures constant outlet pressure for proper operation • Reduces the chance of tube and fitting blow outs • Pressure regulator built into the filter to minimize size (Look for the white dot) • Stand alone options

Savings • Convenience • Reliability



SUBSURFACE PLD MLD ECO-ID TUBING FITTINGS MB AVR AFV IR RISERS PSE MPE RISERS DRIP ZONE MICRO SPRAYS RZWS

PLD

PROFESSIONAL LANDSCAPE DRIPLINE PLD-CV, PLD-PC, PLD-R

Flow: **0.4, 0.6, 1.0 GPH**
Surface Irrigation: **Shrub Rows, Gardens, Tree Rings**

FEATURES

- Pressure compensating emitters
- Flow rates of 0.4, 0.6, 1.0 GPH
- Emitter spacing at 12", 18", and 24"
- Available without emitters (blank)
- Use with PLD-Loc or barbed PLD fittings
- Strong UV resistance
- Warranty period: 5 years (plus 2 additional years for environmental stress cracking)
- Check valves keep the line charged up to 5' and prevent low-point drainage (PLD-CV only)
- Anti-siphon prevents debris from entering emitters when used subsurface (PLD-CV only)

OPERATING SPECIFICATIONS

- PLD-CV:
 - Pressure compensating, non-draining emitters
 - Operating pressure range: 15 to 50 PSI
 - Minimum filtration: 120 mesh, 125 microns
- PLD-PC and PLD-R:
 - Pressure compensating
 - Operating pressure range: 10 to 50 PSI
 - Minimum filtration: 120 mesh, 125 microns
- - Application Rate charts on page 169



PLD-CV



PLD-PC



PLD-R (Reclaimed)

Optional color for reclaimed water sources

MICRO

PLD - SPECIFICATION BUILDER: ORDER 1 + 2 + 3 + 4

1 Model	2 Spacing	3 Length	4 Options
PLD-04 - 0.4 GPH Flow	12 - 12"	100 - 100'	CV
PLD-06 - 0.6 GPH Flow	18 - 18"	250 - 250'	PC
PLD-10 - 1.0 GPH Flow	24 - 24"	500 - 500'	R - Reclaimed*
PLD-BLNK - No Emitters		BL - 1,000'	

Example:
PLD-04-12-250-CV - 0.4 GPH check valve dripline with 12" spacing in a 250' roll

Notes: * 100' rolls available only in models PLD-CV-100, PLD-06-12-100, PLD-10-12-100, and PLD-10-18-100. Reclaimed models available in 0.6 and 1.0 GPH only and do not contain check valves.

PLD installed

