

May 17

OUTDOOR WATER USE SELF-CERTIFICATION OF LANDSCAPE AND IRRIGATION DESIGN DOCUMENTATION COMPLIANCE

Division of the State Architect (DSA) documents referenced within this form are available on the [DSA Forms](#) or [DSA Publications](#) webpages.

PART 1 – PROJECT INFORMATION

School District/Owner: Lodi Unified School District	DSA App. #: 02-122224
Facility Name: Tokay High School	Project Name: AG Area Site Improvements

PART 2 – LANDSCAPE INSTALLATION INFORMATION *(Indicate all applicable work for this project.)*

☒ **No Landscape Work is part of the project.**

☐ **Newly Constructed Landscape Areas or Rehabilitation of Existing Landscape Areas under 2,500 square feet in aggregate**

Newly constructed or rehabilitated landscape areas for the project are under 2,500 square feet in aggregate. Per the area threshold defined in Title 24, Part 11, Section 5.304.6, work shall meet Model Water Efficient Landscape Ordinance (MWELO) prescriptive requirements. Per Title 24, Part 11, Section 301.4.2.4 and Section 5.106.12, new and rehabilitated landscape areas shall include shade trees. A Site Landscape Area Location Plan as described in Part 3 of this form is not required.

☐ **Existing MWELO Compliant Facility**

All landscape areas at the facility comply with MWELO. Site Landscape Area Location Plan as described in Part 3 of this form is not required.

☐ **Landscape Work at New Campus**

Landscape work is on a newly constructed site equal to or greater than the area thresholds defined in Title 24, Part 11, Section 5.304.6. Work shall meet MWELO requirements. Per Title 24, Part 11, Section 301.4.2.4 and Section 5.106.12, new landscape areas shall include shade trees. Site Landscape Area Location Plan as described in Part 3 of this form is not required.

☐ **Elective Landscape-only Work at an Existing Facility**

Project is landscape-only work at an existing facility, whether new or rehabilitated, equal to or greater than the area thresholds defined in Title 24, Part 11, Section 5.304.6. Per Title 24, Part 11, Section 301.4.2.4 and Section 5.106.12, new and rehabilitated landscape areas shall include shade trees. Work shall meet MWELO requirements. Site Landscape Area Location Plan is required; see Part 3 below of this form.

☐ **Required Minimum Rehabilitated Landscape Area (MRLA) at an Existing Facility**

Landscape work at an existing facility required by the construction of a new building or an addition to an existing building. Comply with Title 24, Part 11, Section 301.4.2.2 when the area of the new building and/or the aggregate area of the addition(s) to an existing building is 1,600 square feet or greater. Work shall meet MWELO requirements. Per Title 24, Part 11, Section 301.4.2.4 and Section 5.106.12, rehabilitated landscape areas shall include shade trees. Site Landscape Area Location Plan is required; see Part 3 of this form.

Total footprint area of new buildings and/or building additions: _____ Sq. Ft.

Required MRLA (75 percent of footprint area): _____ Sq. Ft.

MRLA requirement is met by:

(a) Area of existing landscape being rehabilitated: _____ Sq. Ft.

and/or(b) Area of existing landscape irrigation removed from service: _____ Sq. Ft.

Note: Either (a) or (b), or the sum of (a) and (b), must be equal to or greater than the required MRLA.

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PART 3 – SITE LANDSCAPE AREA LOCATION PLAN

Provide a site plan showing the entire facility with all buildings on the site, both existing and proposed new construction, and the landscape areas identified according to the scope of work. The plan shall indicate the DSA Application Number (if applicable), facility name, school district, and site address. The landscape areas must illustrate all existing landscape areas on the site and identify any existing landscape already in compliance with MWELO, existing landscape areas to be improved in compliance with MWELO for the project, and/or landscape areas removed from service, as applicable. For a sample of this document, refer to Attachment 1 of DSA Procedure (PR) 15-03: *Compliance with CALGreen Code Outdoor Water Use Regulations*.

☐ Attached

☒ Not Required per Part 2

PART 4 – CERTIFICATION

Name: [Mariana Alvarez-Parga](#)

Title: [Principal](#)

Work Phone: [408-622-9060](#)

License Registration # [C-36107](#)

Work Email: mariana@19six.com
☒ Architect

☐ Landscape Architect

☐ Civil Engineer

As the design professional responsible for the work described above, I certify that the information on this form is correct. If landscape areas are provided as a part of this project, I certify that landscape planting and irrigation design and Landscape Documentation Package as required by Section 492.3 of MWELO has been completed in accordance with MWELO and the requirements of Title 24, Part 11, Sections 301.4, 5.304.6, and 5.106.12. During construction, I agree to perform periodic site observations to ensure the landscape planting and irrigation work is completed in accordance with the requirements of Title 24, Part 11, Sections 301.4, 5.304.6, and 5.106.12 and conforms with the criteria and specifications of the Landscape Documentation Package. If the scope of landscape work changes prior to or during construction, I agree to update the Landscape Documentation Package, and provide DSA with an updated DSA 1-L and Site Landscape Area Location Plan prior to project certification.

I acknowledge that by providing my electronic signature for this form, I agree to conduct business transactions by electronic means and that my electronic signature is the legal binding equivalent to my handwritten signature. I hereby confirm that my electronic signature represents my execution or authentication of this form, and my intent to be bound by it.

Signature:

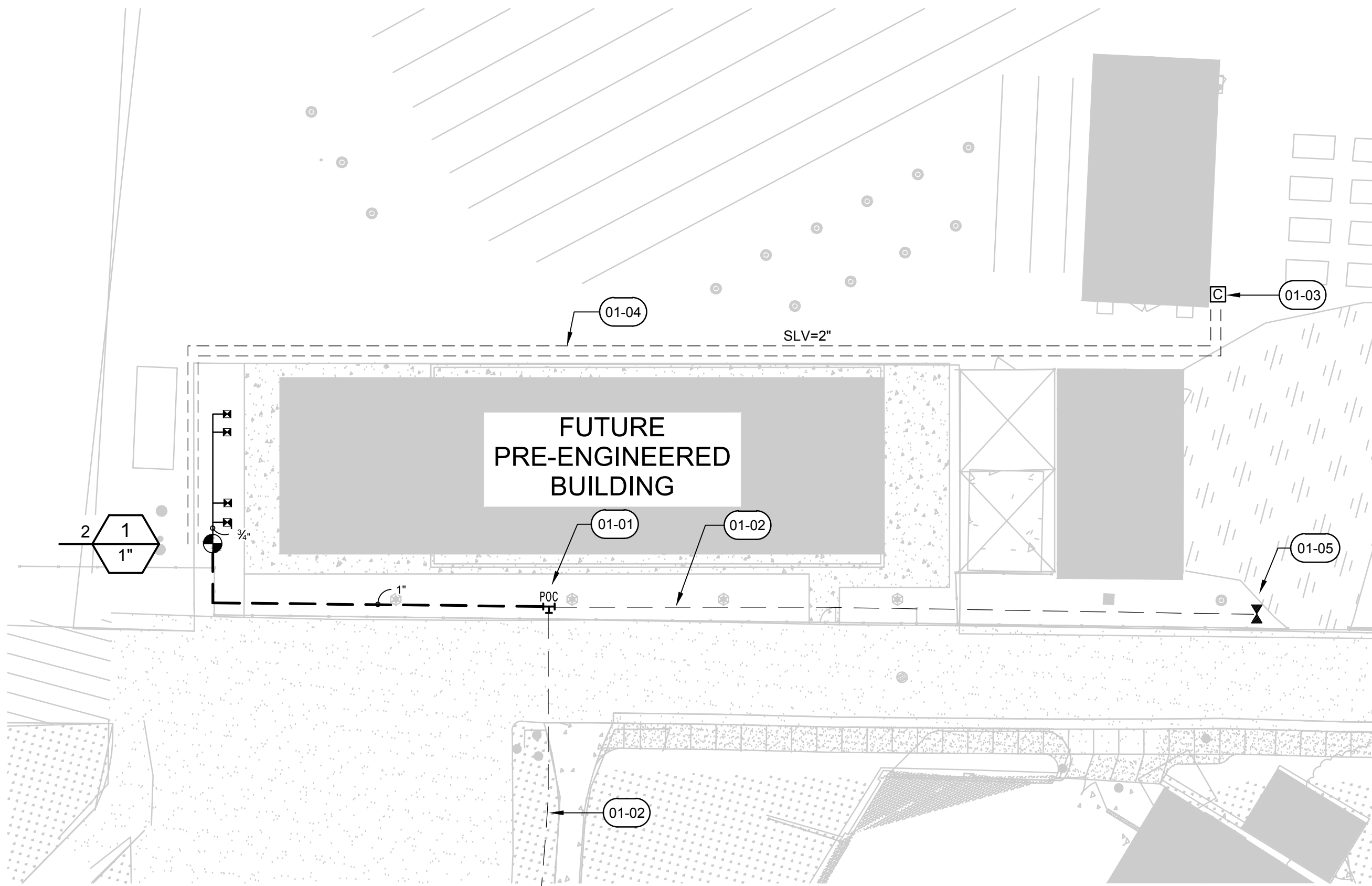


Date: [03/04/2024](#)

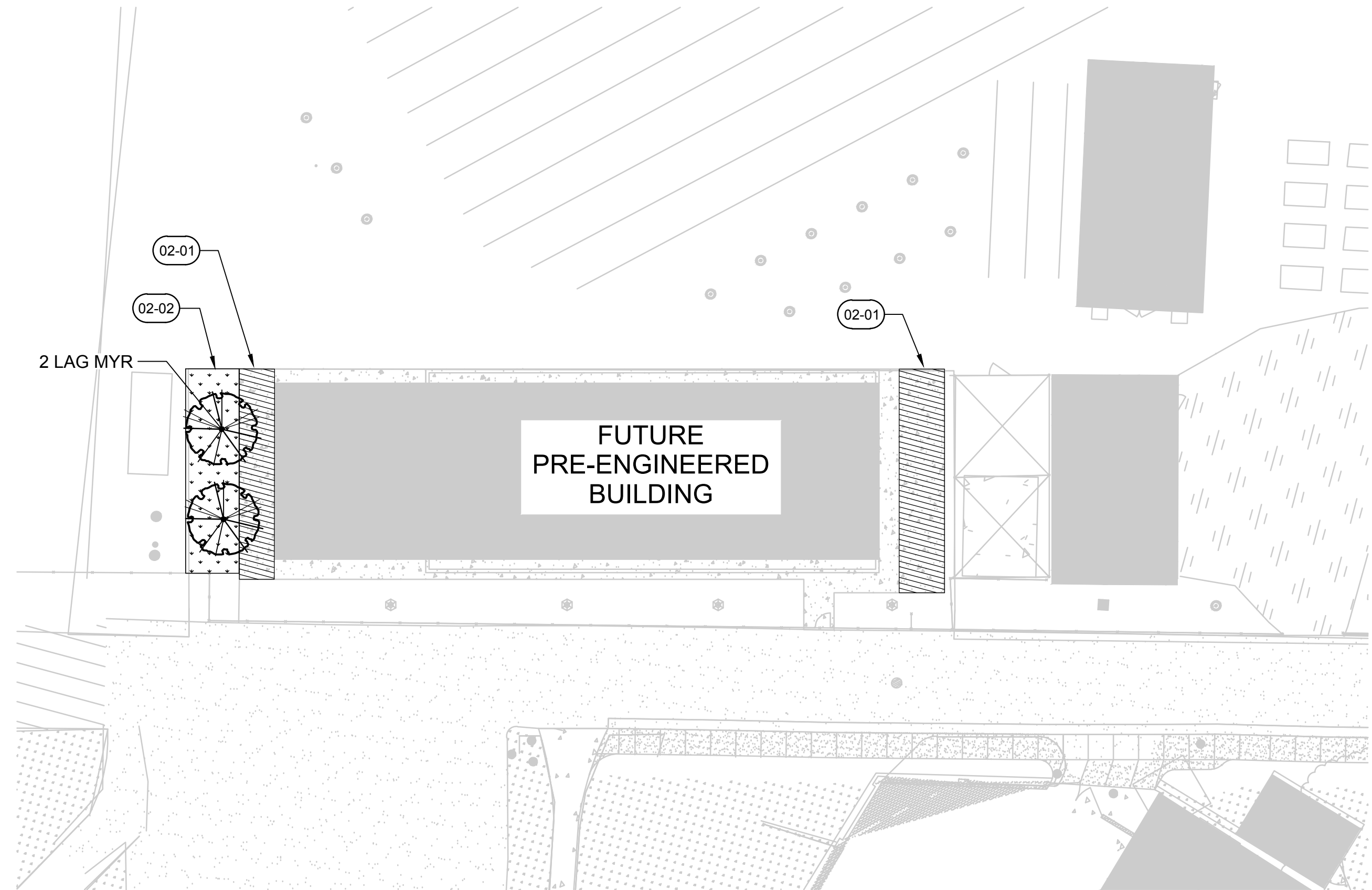
Note: The Landscape Documentation Package as required for this project by MWELO may be reviewed by the DSA for audit purposes and will be made available upon request.

FILE LOCATION: C:\Users\lmhoff\Documents\BIM\23381.01_USD_Tokay HS Ag Area Site Improvements_A24.v2_bim\hoffC2381V.rvt

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IRRIGATION PLAN



PLANTING PLAN

"I have complied with the criteria of the Water Efficient Landscape Ordinance and applied such criteria for the efficient use of water in the irrigation plan".

Signature: [Signature]

March 1, 2024

Date

"I have complied with the criteria of the Water Efficient Landscape Ordinance and applied such criteria for the efficient use of water in the landscape design plan".

Signature: [Signature]

March 1, 2024

Date

SLEEVING SCHEDULE

PIPE SIZE OR # OF WIRES	REQUIRED SLEEVE SIZE
3/4", 1"	1-2" SLEEVE
1-1/4", 1-1/2", 2", 2-1/2"	1-4" SLEEVE
3", 4"	1-6" SLEEVE
6"	1-12" SLEEVE
1-25 CONTROL WIRES	1-2" SLEEVE
26-50 CONTROL WIRES	2-2" SLEEVES

- ALL SLEEVES SHALL BE SCH 40 PVC.
- ALL PIPE AND CONTROL WIRES SHALL BE INSTALLED IN SEPARATE SLEEVES UNDER PAVED AREAS, SIZE AS INDICATED ABOVE.
- SLEEVES SHALL EXTEND AT LEAST 12" BEYOND THE EDGE OF THE PAVEMENT.

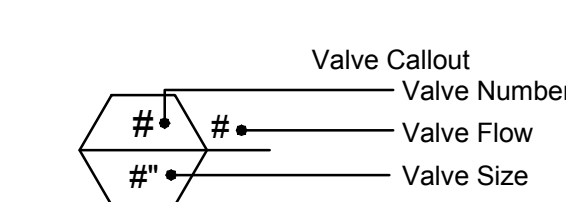
PIPE SIZING SCHEDULE

PVC TYPE	SCH 40	CLASS 315	CLASS 200
PIPE SIZE	MAX. GPM	MAX. GPM	MAX. GPM
3/4"	8	-	-
1"	13	-	-
1-1/4"	22	-	-
1-1/2"	30	-	-
2"	50	-	-
2-1/2"	-	73	-
3"	-	109	-
4"	-	-	200
6"	-	-	425

- ALL MAINLINE PIPE SHALL BE MINIMUM 1".
- ALL LATERAL LINE PIPE SHALL BE MINIMUM 3/4".
- ALL PIPE 2" AND SMALLER SHALL BE SCH 40 PVC.
- ALL PIPE 2-1/2" TO 3" SHALL BE GASKETED CLASS 315 PVC WITH MECHANICAL JOINT RESTRAINTS.
- ALL PIPE 4" AND GREATER SHALL BE GASKETED CLASS 200 PVC WITH MECHANICAL JOINT RESTRAINTS AND DUCTILE IRON FITTINGS.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
	Rain Bird 1800-1400 Flood 1401 Fixed flow rate (0.25-2.0GPM), full circle bubbler, 1/2" FIPT. L3.1 "E".	20
	Rain Bird PEB 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration. L3.1 "E".	
	Point of Connection 3" Existing Irrigation Mainline	
	Irrigation Lateral Line: PVC Schedule 40	
	Irrigation Mainline: PVC Schedule 40	
	Pipe Sleeve: PVC Schedule 40	



SHEET NOTES

SYMBOL	DESCRIPTION
	Connect downstream of existing 3" gate valve, field verify location.
	Existing 3" irrigation mainline, field verify location.
	Existing Sterling irrigation controller, location of controller is diagramtic, contractor to verify location in field.
	Install sleeve for irrigation control wire.
	Existing 3" gate valve.

NOTES

- Irrigation design is based on a maximum demand of 2 GPM with a minimum operating pressure of 55 PSI. Landscape Contractor shall test and verify pressure and flow prior to starting job and notify Landscape Architect immediately if water and pressure flows do not meet these minimum requirements. If available pressure does not meet the minimum operating pressure of 55 PSI., Landscape Contractor shall contact Landscape Architect for system redesign.
- Irrigation plan is diagrammatic; install valves and irrigation lines in planters whenever possible.

IRRIGATION NARRATIVE

- Contractor to connect to existing Sterling 8 irrigation controller located at greenhouse. Controller location shown diagrammatically, contractor to field verify location and make adjustments to installation as necessary. Contractor to coordinate with the district to schedule irrigation run times and days to not interfere with existing scheduleing and to negate unscheduled flow alarms as necessary.

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE
	LAG MYR	2	Lagerstroemia indica x fauriei 'Muskogee' / Muskogee Crape Myrtle	15 gal

SHEET NOTES

SYMBOL	DESCRIPTION
	Required hardscape shade area.
	Landscape area.

REQUIRED HARDSCAPE SHADE AREA = 690 SF.
SHADE REQUIRED 20% = 138 SF
SHADE PROVIDE = 314 SF
LANDSCAPE AREA = 423 SF

AGENCY APPROVAL DSA # XX-XXXXX 39-H4



1715 R STREET, SUITE 200
SACRAMENTO, CA 95811
TEL (916) 786-8178

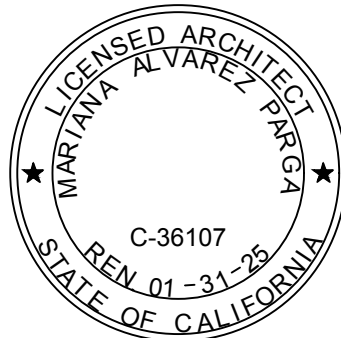
CONSULTANTS

CIVIL ENGINEER
Warren Consulting Engineers, Inc
1117 Windfield Way, Suite 110
El Dorado Hills, CA 95762
TEL (916) 985-1870

ELECTRICAL ENGINEER
The Engineering Enterprise
1125 High Street
Auburn, CA 95603
TEL (530) 886-8556

MECHANICAL ENGINEER
Weston and Associates
601 University Avenue,
#260
Sacramento, CA 95825
TEL (916) 482-0820

PROFESSIONAL STAMP



REVISIONS

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THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E VINE ST
LODI, CA 95240

AG AREA SITE IMPROVEMENTS
1111 W CENTURY BLVD
LODI, CA 95240

SHEET TITLE

IRRIGATION & PLANTING PLAN

DRAWN BY: BJP JOB NUMBER: 23381.01

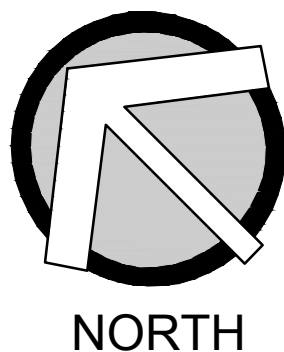
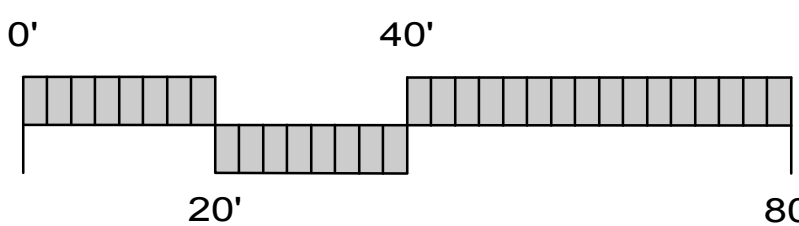
SHEET NO.

L-101

DATE: FEBRUARY 22, 2024

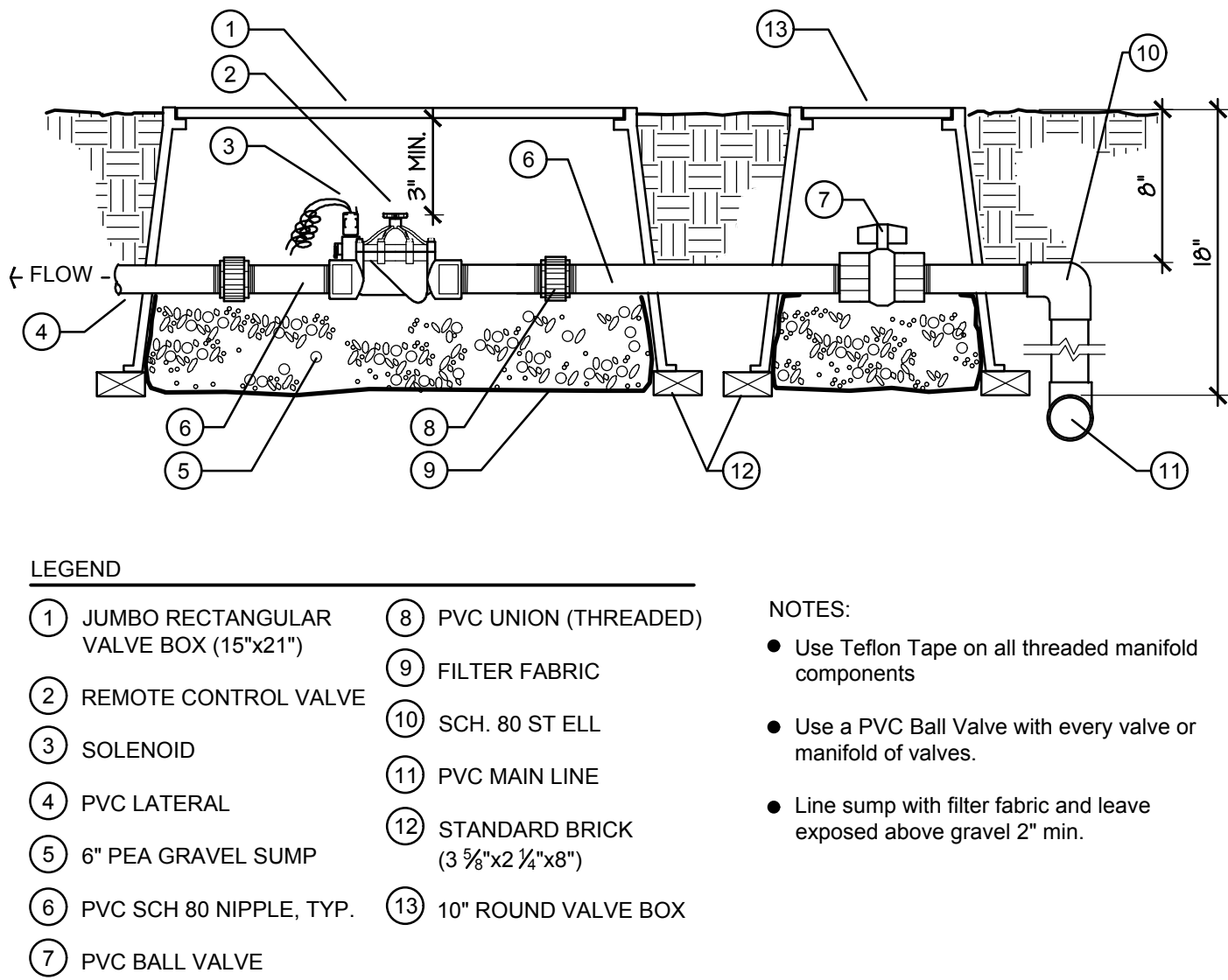


1223 HIGH STREET AUBURN CALIFORNIA 95630 530 885-0040



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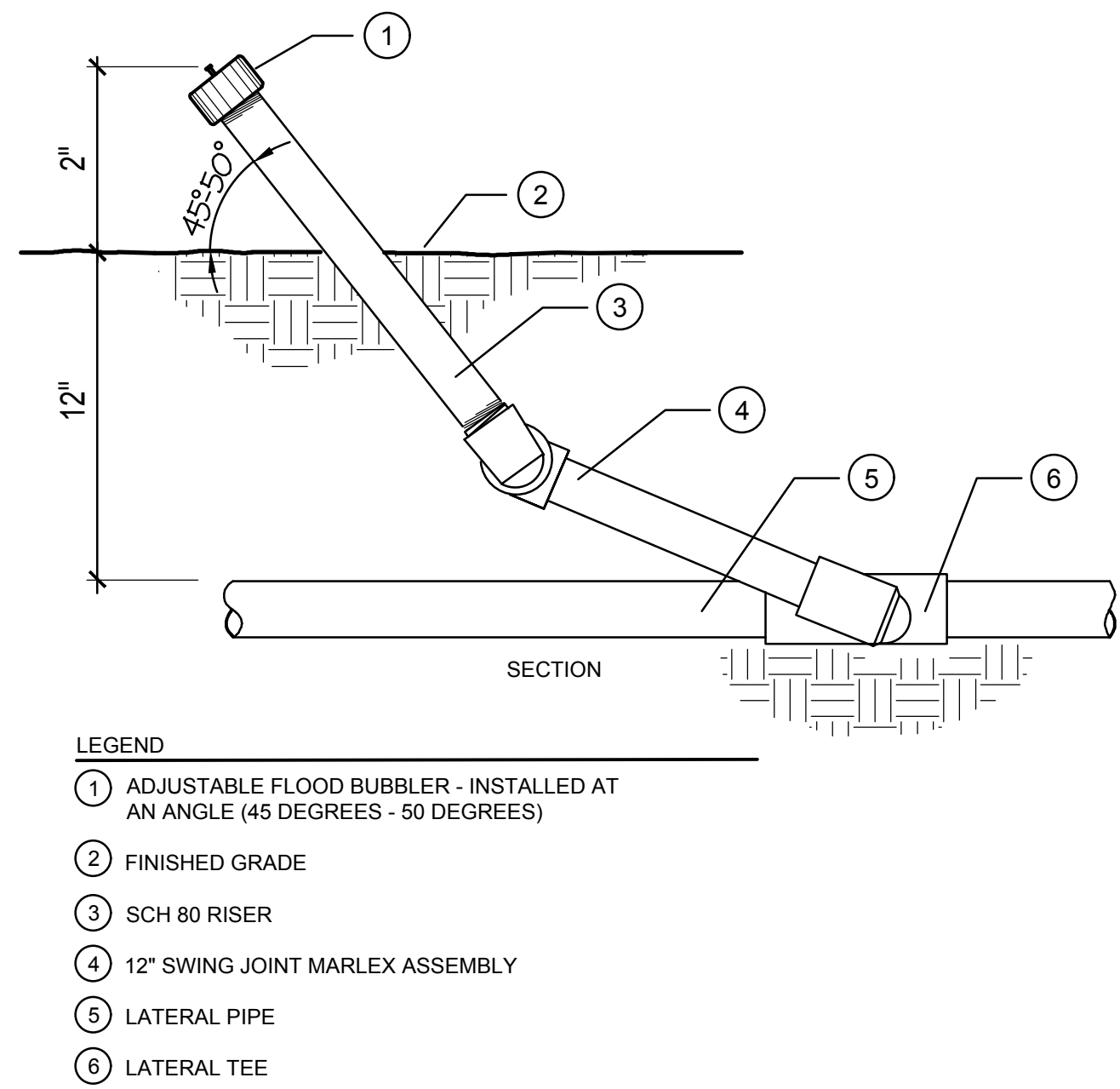


REMOTE CONTROL VALVE

VLV-RMT-2

SCALE: N.T.S.

A

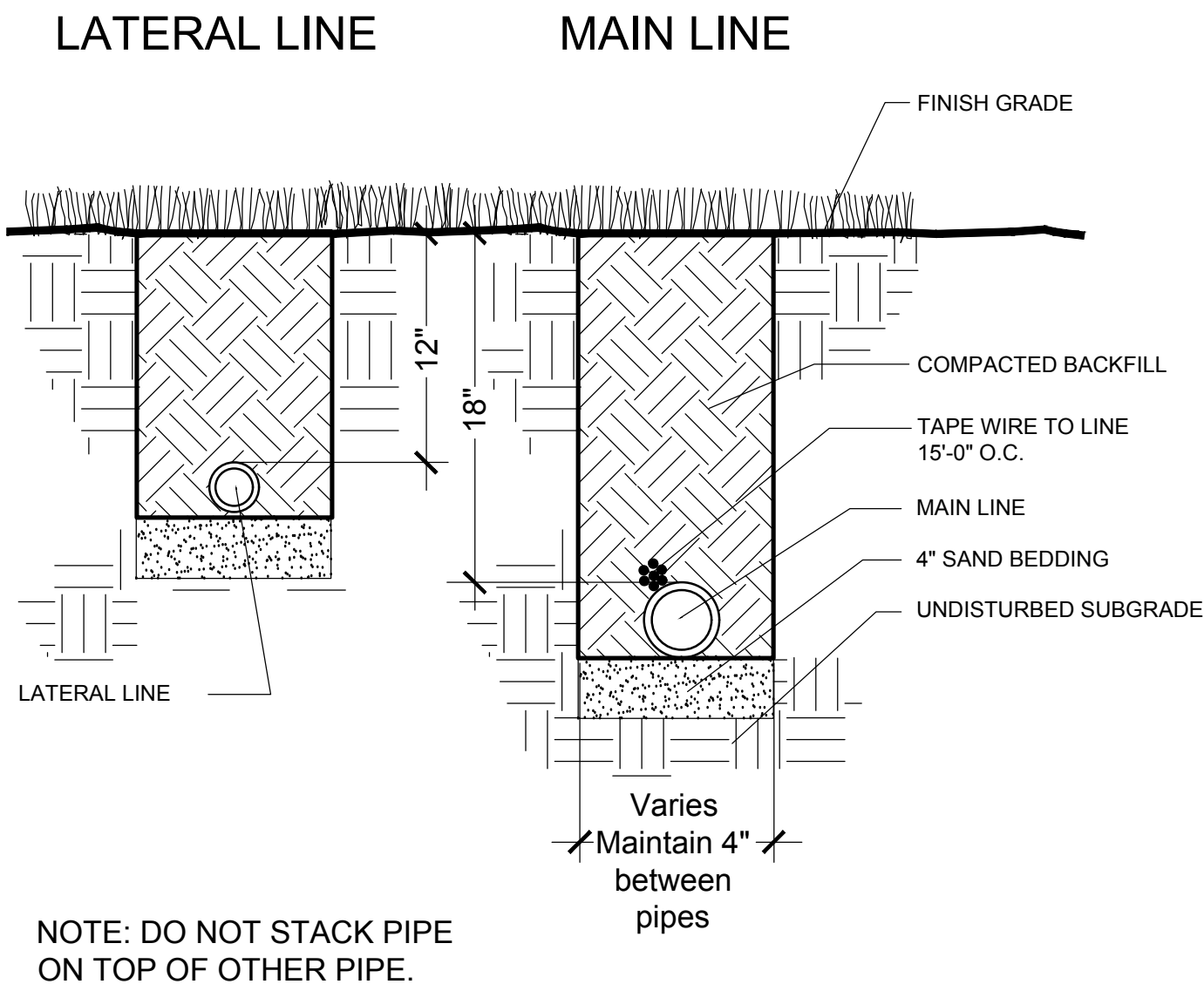


TREE BUBBLER

BBLR-1 at angle

SCALE: N.T.S.

B

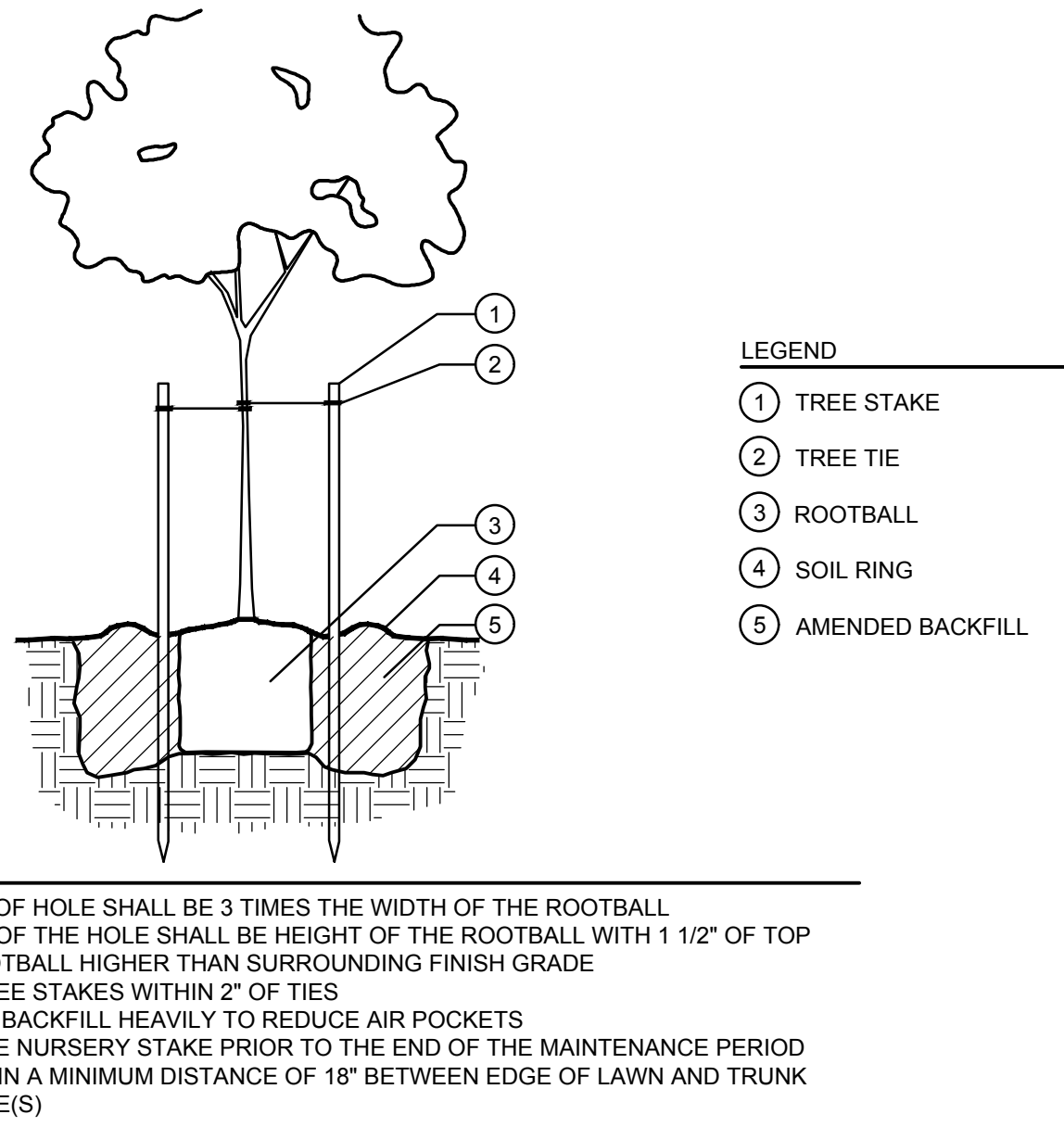


IRRIGATION TRENCH

TRNCH1

SCALE: N.T.S.

C



TREE PLANTING AND STAKING

PLT-TREE1

SCALE: N.T.S.

D

PLANTING NOTES

- Installing Contractor shall verify quantities and areas to be planted prior to start of job. Notify Landscape Architect of any discrepancies prior to starting work.
- All planting areas shall be completely free of trash, debris, rocks, and construction materials larger than 2", and shall be brought to finish grade before planting begins. Finish grade shall be 2" below surface of walks, curbs, and paved areas in planting areas where bark is to be installed. Grades shall be flush at catch basins. Surfaces shall be sloped with regard to drainage requirements so that water does not puddle or stand.
- If additional soil is required, it shall be approved loam as similar to the existing soil as possible, free of debris and noxious weeds. Prior to placing additional soil, disc or scarify the sub-grade to a depth of at least 8" to permit bonding to the sub-grade. Spread and rototill a one inch layer of new soil, then proceed to place remaining soil and establish finish grade.
- Landscape contractor must conduct a soils test to determine amendment quantities. For bid purposes, assume the following soil preparation for all planting areas. Apply nitrified wood product amendment at a minimum rate of 6 cubic yards per 1000 sq. ft. and commercial fertilizer (16-16-16 NPK or equal) at a rate of 30 lbs. per 1000 sq.ft. for shrub and ground cover areas, 20 lbs. per 1000 sq.ft. for lawn areas. Rototill to a depth of 6" to 10". Compact and settle all areas by application of heavy irrigation to a minimum depth of 12".
- All plants shall be top quality nursery stock, free of disease and insect pests. Plants shall be normal size for container, vigorous, and true to name and variety. Plant holes shall be the same depth as the root ball, and three times the width for shrubs and four times the width for trees, see details.
- Backfill for the plant holes shall be existing soil which has been previously amended. Apply Osmocote Controlled Release Formula fertilizer (18-6-12, 4 month formula) per manufacturer's recommendations.
- When planted, crown of plant shall be 1-1/2" above finish grade. Prepare a water basin by forming a soil ring at least 3" high and as wide around the outer edge of the new plant hole. Water thoroughly to eliminate air pockets.
- Upon completion of planting all containerized material, rake all shrub and ground cover areas to smooth grade, leaving watering basins intact. Prior to placement of bark mulch, all shrub and ground cover areas shall be treated with a pre-emergent herbicide (Ronstar or equal) per manufacturer's directions. Contractor to verify with manufacturer that pre-emergent will not adversely affect plant health.
- Place a 3" layer of "Walk-On" fir bark mulch, or approved equal, in all shrub and ground cover areas. Shredded redwood "Gorilla Hair" is not acceptable.
- Ground cover plants shall be planted in straight rows and evenly triangularly spaced at intervals noted in plant legend. Plant each rooted plant with its proportionate amount of rooting soil in a manner that will insure minimum disturbance of the root system.
- For trees that require staking, use two 2" diameter treated lodgepole stakes set at minimum of 12" into undisturbed subgrade below the root ball. Place ties and stakes only to the level which will hold the tree upright; proper height is 6" above the point where the tree will snap to an upright position by itself if the top is pulled to one side as if wind loaded and then released. Ties shall be cinch-tie flexible vinyl (or equal) nailed to stake with galvanized nails, see details.
- Contractor shall furnish all labor, material, equipment, and services required to maintain the landscape in an attractive condition as specified herein for a period of 90 days after final acceptance by Owner. Maintenance Period shall commence after all planting and related work has been completed in accordance with Plans and Notes. A prime requirement is that all lawn areas shall show an even, healthy stand of grass which shall have been mown at least twice. Any materials found to be dead, missing, or in poor condition during the Maintenance Period shall be replaced within 10 days of written notification by the Owner. Contractor shall not be held responsible for damage arising from acts of God, vandalism, theft, or negligence by Owner during the Maintenance Period.

IRRIGATION NOTES

- Installing Contractor shall verify all dimensions and areas prior to start of job. Intent is for full coverage of planting. Notify Landscape Architect of any discrepancies prior to trenching.
- Plan is diagrammatic and not intended to show exact locations of piping and valves. Install valves and piping in landscape areas wherever possible. Install valves near curbs and sidewalks whenever possible. Sprinkler head spacings are shown accurately and shall be installed as indicated by the center of the symbol. Contractor is responsible for pipe sizing the irrigation system correctly.
- All materials shall be new and in perfect condition. No deviations from the specifications will be allowed without prior written approval of Landscape Architect.
- Mainline shall be SCH 40 PVC or CL315 at a minimum depth of 18" below finish grade. Lateral lines shall be SCH 40 PVC at a minimum depth of 12" below grade. Use only the solvent supplied and recommended by the pipe manufacturer to make plastic pipe joints. Allow 15 minutes set-up curing time before moving or handling, and 24 hour curing time before water is placed in PVC pipe. Center load pipe with a small amount of backfill to prevent arching and whipping under pressure.
- Where more than one pipe is installed in a trench, place pipe side by side at a minimum of 2" apart. Where soil conditions are rocky, place a 4" layer of fine material on bottom of trench prior to installation of pipe.
- All valves shall be installed in Carson poly-plastic valve boxes with flush covers, or approved equal. Remote control valves shall be installed in Carson 1419 12" depth standard rectangular valve boxes; Drip zone remote control valves with filters and PRVs shall be installed in Carson 1220 12" depth jumbo rectangular valve boxes; Ball valves shall be installed in Carson 0011 10" diameter round valve boxes. Top of valve boxes shall be 1" above finish grade.
- All control wire shall be #14 U.L. direct burial. Taped and bundled every 20'. Place at a minimum depth of 18", installing in common trenches with mainline whenever possible. Where wire crosses paving, encase wire in a SCH 40 PVC sleeve. Run one extra wire, of a different color, to the last valve on each mainline leg, looping the wire through each valve box and label for future use.
- At valves, both wires shall be brought into valve box and shall have an excess loop of 24" before being spliced into the solenoid pigtails using Pentite connectors.
- After valves have been installed, test all mainlines for leaks at full line pressure for a period of 2 hours with couplings exposed and pipe sections center loaded. Before testing, fill line with water for at least 24 hours. Provisions shall be made for thoroughly bleeding the line of air and debris. Correct all defects and retest.
- All excavations shall be backfilled with fine material to 4" above crown of pipe and tamped; then fill with earth and tamp. All trenches shall be left flush with adjoining grade and in a firm unyielding condition. Any subsequent settling shall be corrected by the Contractor.
- Install systems without bubblers heads. Flush and operate each valve system at full pressure until all debris is removed. Install bubbler heads.
- Test to determine that all sprinklers function according to manufacturer's data and give full coverage according to intent of drawing. Replace and adjust as necessary. Additional heads shall be provided by the Contractor to cover areas shown to be deficient by test.
- Contractor shall set initial program for the controller. Contractor shall provide Owner with the instruction manual and demonstrate its operation to the Owner.
- Contractor shall guarantee all parts and labor for one year with exception of damage caused by vandalism, theft, adverse natural conditions, or anything beyond the control of the Contractor.

GENERAL NOTES

- Landscape areas not covered with live material shall be covered with a 3" "Walk-On" fir bark mulch layer.
- Provide a minimum three foot clearance around all fire protection equipment and associated landscape apparatus.
- Landscape contractor shall provide protection for all concrete surfaces when installing landscape materials. Staining of concrete from dirt, tire marks and damaged curbs will not be permitted. All damaged surfaces shall be cleaned or replaced.
- Landscape contractor shall coordinate and install the sleeving and stubbing for irrigation crossing parking lots and paved areas.
- Landscape contractor shall grade all landscape areas 2% min. to drain to the street. Landscape contractor is responsible to provide positive drainage away from all buildings. All planters and planter islands should be crowned to prevent standing water.
- Root barriers are required in all locations where trees are placed closer than 48" from curbs, sidewalks, concrete or asphalt refer to detail for specification and installation.
- Quantities found in the plant legend are for contractor convenience. In the event that the quantities in the legend differ from those found on the plans, the quantities found on the plans will take precedence.
- Contractor to hand dig only under existing tree canopies, no mechanical excavation will be allowed, do not cut any roots 2" or larger in diameter, if it is necessary to prune roots 2" in diameter or larger, contractor shall hire the services of a licensed arborist to supervise and direct the work, follow all recommendations of the arborist.

AGENCY APPROVAL DSA # XX-XXXXX 39-H4



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SACRAMENTO, CA 95811
TEL (916) 786-8178

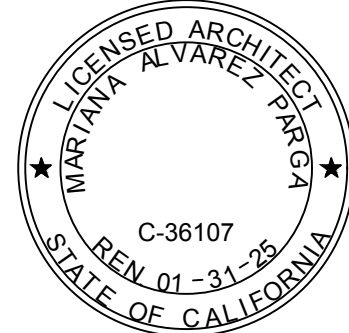
CONSULTANTS

CIVIL ENGINEER
Warren Consulting Engineers, Inc
1117 Windfield Way, Suite 110
El Dorado Hills, CA 95762
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ELECTRICAL ENGINEER
The Engineering Enterprise
1125 High Street
Auburn, CA 95603
TEL (530) 886-8556

MECHANICAL ENGINEER
Weston and Associates
601 University Avenue,
#260
Sacramento, CA 95825
TEL (916) 482-0820

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REVISIONS

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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL
DISRTICT
1305 E VINE ST
LODI, CA 95240

AG AREA SITE IMPROVEMENTS
1111 W CENTURY BLVD
LODI, CA 95240

SHEET TITLE

IRRIGATION & PLANTING
DETAILS & NOTES

DRAWN BY: BJP

JOB NUMBER: 23381.01

SHEET NO.

L-201

DATE: FEBRUARY 22, 2024



1223 HIGH STREET AUBURN CALIFORNIA 95630 530 885-0040

