



**Business Services  
Contracts Office**

5735 47th Avenue • Sacramento, CA 95824  
(916) 643-2464

*Janea Marking, Chief Business Officer  
Robert Aldama, Purchasing Manager II*

**ADDENDUM NO. 1**

Date: **April 15, 2024**

Issued by: **Sacramento City Unified School District**

Project: **Project #: 0521-470  
West Campus HS Baseball/Softball Field Improvements**

This addenda shall supersede the original Information, attachments, and specifications regarding Project No. 0525-470 where it adds to, deletes from, clarifies or otherwise modifies them. All other conditions and any previous addenda shall remain unchanged.

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**BIDDING REQUIREMENTS:**

**AD1.01** Sealed bids will be received until **10:00am** on ~~April 19, 2024~~ **May 21, 2024** at the **District Administration Office, 5735 47th Avenue, Sacramento, California 95824.**

**AD1.02** In accordance with General Conditions Section 00 72 13, Article 1 Definitions, item 1.1.18 Days, the **Exhibit B Preliminary Construction Schedule is attached changing days from workdays to calendar days.**

**AD1.03** Form of Agreement, 4. Time for Completion: It is hereby understood and agreed that the Work under this Contract shall be **completed by March 31, 2025** ("Contract Time). **This includes construction 10/14/2024, landscape maintenance 12/23/2024, punchlist 12/27/2024, punchlist and project acceptance 12/30/2024, and closeout 3/31/2025).** **All work should be in coordination with the schedule provided at bid time and established milestones.**

**TECHNICAL REQUIREMENTS:**

**AD1.04:** Specification section 33 11 00 Domestic Water Utilities **shall add section 2.01 J. Clow 960 Factory Painted or per Local Jurisdiction Requirements, or an approved equal. Hydrant shall conform to, and installation shall comply with the Local Jurisdiction.**

**DRAWINGS:** None.

**BIDDER QUESTIONS:**

**Q1:** Per the detail A/D5.4 for the 3rd base side dugout a guardrail system is shown and detail P/D4.2 is referenced, but it appears there isn't a detail P on sheet D4.2. Please advise which detail should be used.

**A1: Guard Rail System detail is located on C/D4.3**

**Q2:** Per the detail K/D5.1 please confirm that edgebands and curbs are required around the perimeter of the softball and baseball batting cages as pedestrian concrete surrounds the batting cages.

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**A2: Edgebands and curbs are required as shown.**

Q3: On sheet L7.1 callout 46 in the parking lot for the Tall Curb @ Bioretention area appears to stop where the sidewalk abuts the bioretention area. Please confirm that the tall curb is to surround the entire bioretention area.

**A3: Tall curb surrounds bio retention area except where gutter drains into area.**

Q4: Callout 45 Concrete Curb with Curb Cuts isn't exactly clear where we should put the curb cuts. Is it the thicker hatching at the noses of all the islands? For example the smaller islands shows the thicker hatching where curb #23 is being installed, but callout 46 isn't shown at those locations.

**A4: Curb cuts occur only where the callout for 45 is on plan. The thick dashed line is a different item that is noted in the legend.**

Q5: Sheet L5.1 shows an additive alternate french drain on the legend and plans, but there is only 1 additive alternate including on the bid form. Please confirm whether all french drains should be included in the base bid.

**A5: All French drains are to be included in the base bid. Refer to updated plan sheets L5.1 & L5.2.**

Q6: Please provide irrigation mainline sizing on sheet L8.1 from the bottom SE corner of the page traveling north to the parking lot. Not enough information to price this out.

**A6: Refer to updated plan sheets L8.1-8.3 for mainline labeling and other updates.**

Q7: At each Irrigation Remote Control Valve Groupings what size should we assume the gate valve is?

**A7: Yes**

Q8: Please confirm the thickened edge per A/D2.1 should be installed at all locations including where pedestrian concrete is adjacent to new concrete bands.

**A8: Thickened edge shall occur at all locations.**

Q9: Sheet L5.2 shows relocated (e) gas line to match size and material. Please confirm what size and material we should assume at bid time.

**A9: Existing information is unknown. Contractor shall verify per sheet note 9, "9. PRIOR TO ALL DRAINAGE AND UTILITY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL POTENTIAL DRAINAGE CONNECTIONS AND EXISTING UTILITY BY POTHOLES. IN ADDITION, ALL DOWNSTREAM CONNECTIONS TO EXISTING STRUCTURES SHALL BE THE START OF THESE OPERATIONS, AND GRADES SHALL BE VERIFIED."**

Q10: Is the intent of the new irrigation to include a 2-wire controller? If so, what size conduit should the wire be run in?

**A10: Intent is to use existing controller if possible. Contractor to provide allowance to install new controller. Contractor to confirm the following: if existing controller is 2-wire, the number of free stations, the number of stations that were removed from demo, and the existing stations to remain. 2-wire to be direct burial. If under pavement, 2-wire to be placed inside irrigation sleeving. Sleeving size varies per mainline size. See Detail I/D6.1 (updated D6.1 attached).**

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Q11: Can you confirm that the 12" and 18" outfield wall per K/D2.2 is to be sandblasted?

**A11: Correct**

Q12: Should we assume there is no required abatement at the portable building to be removed?

**A12: No testing has occurred at the building to know if abatement is necessary.**

Q13: The field office requirements in spec section 01 52 13 are pretty extensive for such a short duration project. Please confirm whether all of these added costs are necessary.

**A13: The awarding GC will provide a field office, large enough to house weekly construction meetings to include table and chairs for a minimum of six (6) people. The trailer should include wi-fi connection. The balance of the use of space is at the awarding GC discretion.**

Q14: Per detail D/D5.1 "Warning Track Fines" we're required to install 4" of decomposed granite sub-base. Please confirm if this is to be non-stabilized decomposed granite? Would the district consider making this 4" of Class 2 AB?

**A14: Decomposed granite in this application does not require stabilizer. No substitutions.**

Q15: Can you confirm per spec section 32 80 00 paragraph 2.07 Concrete Valve Boxes that all irrigation requiring valve boxes will require concrete valve boxes and that plastic boxes are not acceptable?

**A15: Traffic rated concrete valve boxes are required in driving rated concrete paving areas and in mow areas.**

Q16: Per 32 80 00 paragraph 2.02.B.6 the irrigation system is operated with recycled water. Please confirm all pipe shall be purple.

**A16: System is a potable irrigation system.**

Q17: Per spec section 32 33 00 paraGRAPH 3.06 SITE FURNISHINGS MATRIX W. Helmet Cubby and Coat Rack Wall, only 2 ea are required. The two each are located at each 3rd base dugout per detail plan sheet D5.4. The manufactured item SUWHCCRWM is only 8' long and detail plan sheet D5.4 shows 32' of the helmet cubby meaning there would be a total of 8 ea for the project. Please confirm how many should be included in the bid.

**A17: Specification section 32 33 00 Site Furnishings has been updated and is included in this Addendum.**

Q18: Confirming per detail N/D2.1 that the parking lot should have 8" thick asphalt. Would seem like this is a bit much for a parking lot.

**A18: Pavement design is per geotechnical report. Parking lot also serves as the fire lane.**

Q19: Please confirm the root barrier requirements on this project.

**A19: Root barriers shall be installed when tree is located within 10' of hardscape, buildings, edgebands, curbs or fencing.**

Q20: Wall padding is shown on detail K/D2.2 at the outfield wall which says "Refer to Specifications". Please confirm who the manufacturer and model number is for the wall padding.

**A20: Wall padding is in specification section 32 33 00 Site Furnishings.**

Q21: Per 00 11 16 the award of the contract will be "any combination of total base bid (including allowance) and additive alternate as determined by the district". Please confirm whether the basis of award will be base bid or base bid + alternate.

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**A21: The award will be any combination of the total base bid including allowance with or without the additive alternate as determined by the District.**

Q22: Please confirm the required warranty period as most individual specification sections require 1 year whereas spec section 00 72 13 14.1.2 requires 2 years.

**A22: The District requires a 2 year workmanship warranty.**

Q23: Please provide irrigation controller's model.

**A23: Assuming the existing controller cannot be used for the new system. Hunter ACC2 or Similar. Please budget for (1) 75-station & (1) 8-Station.**

Q24: There are no model of Superior 950-RW brass valve. Please provide.

**A24: Provide Superior 950 Brass In-Line Valve.**

Q25: Are thrust blocks required at supply lines 2" dia?

**A25: Yes.**

Q26: Per subsection 2.02.B, constant-pressure Mainline piping 2-1/2 inches and larger: Class 200 SDR-21 or 2-1/2" to 3" Class 315 SDR-14. However, Irrigation Legend only allows Schedule 40 and ring-tite. Please clarify.

**A26: Refer to specifications - Constant-Pressure Mainline Piping 2 inches and Smaller: Schedule 40 with solvent weld fittings.**

**3. Constant-Pressure Mainline Piping 2-1/2 Inches and larger: Class 200 SDR-21 or 2-1/2" to 3" Class 315 SDR-14, if requested by Owner, or C900 Class 200 DR-14, if the system is using recycled or well water.**

Q27: Is the water source domestic or reclaimed?

**A27: Domestic.**

Q28: There are some parts of mainline that have no size callout. Please clarify.

**A28: See updated irrigation plan for clarification.**

Q29: Please provide length of root barrier.

**A29: Root barrier length is to be 2' longer than the anticipated mature tree canopy diameter. See planting legend for species and diameter to determine root barrier length.**

Q29: Please provide length of root barrier.

**A29: Root barrier length is to be 2' longer than the anticipated mature tree canopy diameter.**

Q30: Refer to material plan, redwood header board is shown on legend but not shown on plan. Please clarify.

**A30: Header board is shown on L7.3.**

Q31: Please confirm if subcontractors holding C-4, C-7, C-10, C-16, C-20, C-34, C-36, C-38, C-42, C-43, and/or C-46 licenses need to be prequalified with the District to bid this project. See attached. Are there requirements for GCs and MEP subs to be prequalified to bid the project?

**A31: No, state bond funds will not be used on this project.**

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Q32: The project specs appear to be missing significant portions of scope including: Structural Concrete, Structural Steel, misc. metals, Sheetmetal, Signage, Toilet accessories, Paving Specialties, Signage, Glulam, Electrical, Plumbing, HVAC - All of which is observed on the drawings - Largely associated with the pre-engineered restroom and dugouts. Please provide specs. Other scopes may also be missing from the spec.

**A32: Specification information is also included on plan sheets.**

Q33: Please confirm no fire sprinkler scope.

**A33: No fire sprinklers.**

Q34: Please confirm no fire alarm scope.

**A34: No fire alarm.**

Q35: Please clarify the design of the hand rails on the steps, at L4.2 enlargement B. Are these the tails shown on D2.2? Reference details do not appear on plan views.

**A35: Detail references are located on L7.2.**

Q36: Please confirm the parking area is to get new parking striping per L7.1. This is not labeled.

**A36: New parking lot shall be striped as shown on plans.**

Q37: Drawings indicate a flag pole on top of the scoreboard (Which is crossed out - SB2.2) but also flag poles standing on their own. Please clarify the design of the scoreboard and flagpoles.

**A37: Specification section 32 33 00 Site Furnishings has been updated and is included in this Addendum. Scoreboard plans cross out information that is not applicable to project but keeps information that is applicable. Flag poles are stand alone per 32 33 00.**

Q38: 323300 - Site Furnishing spec identifies trash receptacles 3.03. Provide spec. Only two 36 Gal bins are located on A4.1.

**A38: No trash receptacles other than A4.1 specifics.**

Q39: Confirm there are no allowances other than the \$700,000 listed on Bid Form 00 41 13.

**A39: Confirmed.**

Q40: Confirm here are only the 2 alternates, listed on C0.0 Cover sheet.

**A40: Additive alternate 2 noted on the Cover sheet is removed. Please refer to addendum item Q5/A5.**

Q41: Please clarify the site furnishing scope. Items like the scoreboard and flag pole are listed in the spec but crossed out in the drawings. Reference SB-02 -> SB5.1.

**A41: Specification section 32 33 00 Site Furnishings has been updated and is included in this Addendum. Scoreboard plans cross out information that is not applicable to project but keeps information that is applicable. Flag poles are stand alone per 32 33 00.**

Q42: Please provide project start and end dates.

**A42: Please refer to addendum items 01.01 and 01.02.**

Q43: 323300 - Site Furnishing spec identifies several items at the end of the spec including couplers, tools, mats, and base caddy. Please clarify if this is by owner? If not provide remainder of missing information in specs.

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**A43: Specification section 32 33 00 Site Furnishings has been updated and is included in this Addendum.**

Q44: Confirm there is no lighting for the dugout, flag poles, or field.

**A44: Lighting within storage room only.**

Q45: Clarify if concrete wheel stops are needed for all new striped stalls. Clarify total quantity.

**A45: Wheel stops are only located at accessible parking stalls.**

Q46: Provide the footing detail for the bleachers at the football field. This is also mentioned on 323300 - Site Furnishings.

**A46: No footing required.**

Q47: Provide the details for the scorers booth - it appears to be an elevated platform behind the bleachers.

**A47: Specification section 32 33 00 Site Furnishings has been updated and is included in this Addendum.**

Q48: Please provide distance marker specification E/D5.1.

**A48: Specification section 32 33 00 Site Furnishings has been updated and is included in this Addendum.**

Q49: Please provide Mechanical equipment schedule.

**A49: ROMTEC shall provide information with DSA approved set.**

Q50: Please provide plumbing fixture schedule.

**A50: ROMTEC shall provide information with DSA approved set.**

Q51: The scale of the bathroom drawings on not correct. For example, A1.1 identified a 1/4" = 1'-0" ratio however it is closer to 1:20. Please clarify drawing scales.

**A51: ROMTEC shall provide information with DSA approved set.**

Q52: Provide specifics for the finish schedule for Bathrooms. A4.1 does not list models or products.

**A52: ROMTEC shall provide information with DSA approved set.**

Q53: Please clarify if there is any specific flooring in the dugouts other than unfinished concrete. Rubber is typical but not observed.

**A53: Dugout floor is concrete per S2.1.**

Q54: Please clarify if this project needs DSA approval. DSA stamps are not observed.

**A54: The intent is to issue DSA approved documents in a future addendum.**

Q55: Whiteboard listed on D5.4 does not appear listed in site furnishings spec 323300. Please provide.

**A55: Specification section 32 33 00 Site Furnishings has been updated and is included in this Addendum (whiteboard is not listed). White board is 5' x 3.5' attached per detail C/D5.4.**

**END OF ADDENDUM NO. 1**  
**Acknowledgement of this Addendum will be required at time of bid.**

ADDENDUM NO. 1  
Preliminary Schedule for Bidding and Baseline master project schedule milestones.

ID	Task Name	Duration	Start	Finish	2024												2025											
					Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
1	<b>West Campus HS Baseball-Softball Field Improvements</b>	<b>529 days</b>	<b>Fri 10/20/23</b>	<b>Mon 3/31/25</b>																								
2	<b>Design</b>	<b>176 days</b>	<b>Fri 10/20/23</b>	<b>Fri 4/12/24</b>																								
3	50% CDs	0 days	Fri 10/20/23	Fri 10/20/23																								
4	50% CDs Review with District	15 days	Fri 10/20/23	Fri 11/3/23																								
5	DSA Submittal, Review, Approval	22.6 wks	Fri 12/22/23	Fri 4/12/24																								
6	<b>Bid/Award</b>	<b>78 days</b>	<b>Tue 3/26/24</b>	<b>Wed 6/12/24</b>																								
7	Advertise	0 days	Tue 3/26/24	Tue 3/26/24																								
8	2nd Advertisement	0 days	Tue 4/2/24	Tue 4/2/24																								
9	Mandatory Pre-bid @ 10am	0 days	Wed 4/3/24	Wed 4/3/24																								
10	RFBIs Due by 10am	0 days	Wed 4/10/24	Wed 4/10/24																								
11	Issue Addenda 1 by 10am	0 days	Mon 4/15/24	Mon 4/15/24																								
12	<b>Issue Addenda 2 by 10am</b>	<b>0 days</b>	<b>Fri 5/3/24</b>	<b>Fri 5/3/24</b>																								
13	<b>2nd RFBI Due by 10am</b>	<b>0 days</b>	<b>Fri 5/10/24</b>	<b>Fri 5/10/24</b>																								
14	<b>Issue Addenda 3 by 10am</b>	<b>0 days</b>	<b>Wed 5/15/24</b>	<b>Wed 5/15/24</b>																								
15	<b>Bid Opening @ 10am</b>	<b>0 days</b>	<b>Tue 5/21/24</b>	<b>Tue 5/21/24</b>																								
16	<b>Issue Notice of Intent</b>	<b>0 days</b>	<b>Fri 5/24/24</b>	<b>Fri 5/24/24</b>																								
17	<b>Anticipated Board Action</b>	<b>0 days</b>	<b>Thu 6/6/24</b>	<b>Thu 6/6/24</b>																								
18	<b>Issue NTP</b>	<b>0 days</b>	<b>Wed 6/12/24</b>	<b>Wed 6/12/24</b>																								
19	<b>Construction</b>	<b>288 days</b>	<b>Mon 6/17/24</b>	<b>Mon 3/31/25</b>																								
20	<b>Mobilize</b>	<b>0 days</b>	<b>Mon 6/17/24</b>	<b>Mon 6/17/24</b>																								
21	<b>Construction</b>	<b>6 mons</b>	<b>Mon 6/17/24</b>	<b>Mon 10/14/24</b>																								
22	<b>Landscape Maintenance</b>	<b>90 days</b>	<b>Wed 9/25/24</b>	<b>Mon 12/23/24</b>																								
23	<b>Punchlist work</b>	<b>74 days</b>	<b>Tue 10/15/24</b>	<b>Fri 12/27/24</b>																								
24	<b>Punchlist complete &amp; project acceptan</b>	<b>0 days</b>	<b>Mon 12/30/24</b>	<b>Mon 12/30/24</b>																								
25	<b>Closeout complete</b>	<b>0 days</b>	<b>Mon 3/31/25</b>	<b>Mon 3/31/25</b>																								

West Campus HS BB-SB Field Improvements ICS Pre-lim/Bid Schedule	Task		Inactive Task		Manual Summary Rollup		External Milestone	
	Split		Inactive Milestone		Manual Summary		Deadline	
	Milestone		Inactive Summary		Start-only		Progress	
	Summary		Manual Task		Finish-only		Manual Progress	
	Project Summary		Duration-only		External Tasks			

SECTION 32 18 00

MISCELLANEOUS PAVING AND SURFACING

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes: Miscellaneous paving surfacing as shown on the Drawings including, but is not limited to, the following:
  - 1. Infield fines mix with sports field conditioner.
  - 2. Warning track mix.
  - 3. Infield clay mix; bag material.
  - 4. Decomposed granite and stabilizer
  
- B. Related Requirements:
  - 1. Section 32 33 00 - Site Furnishings
  - 2. Section 31 20 00 - Earth Moving
  - 3. Section 32 11 00 - Base Courses

1.02 ADMINISTRATIVE REQUIREMENTS

- A. Submittal Procedures: Action and Informational Submittals shall be submitted in accordance with Section 01 33 00 - Submittal Procedures.
  
- B. Sequencing and Scheduling:
  - 1. Coordinate applicable subgrade preparations, installations of base course materials, and all other work with work of this Section to insure a proper, timely installation.

1.03 ACTION SUBMITTALS

- A. Samples:
  - 1. Unless otherwise specified, submit 1-quart size samples of the following:
    - a. Infield fines mixture.
    - b. Infield clay mixture.

1.04 QUALITY ASSURANCE

- A. Materials Source: Sources of materials specified herein shall not be changed during course of work without review and written acceptance by the Owner's Representative.

1.05 WARRANTY

- A. Manufacturers: Provide Owner with the following manufacturers extended warranties.

PART 2 - PRODUCTS

2.01 SAND AND CLAY MATERIALS

- A. Suppliers:

1. Ewing Irrigation and Landscape Supply, Sacramento, CA 916-383-2400 as specified and the basis of design unless otherwise noted, or equal. Contact: Jim Barbuto.
  2. DuraEdge Products, Inc. 866-867-0052, or an approved equal.
  3. TMT Enterprises, Inc., San Jose, CA, 408-432-9040 as specified and the basis of design unless otherwise noted, or equal. Contact: Matt Moore.
- B. Infield Fines, Warning Track and Clay Mix:
1. Mix shall be free of rocks, debris, vegetation, clay balls, foreign materials, etc. Infield mixes shall be sterilized to eliminate the possibility of any growth of vegetation.
  2. Infield Fines: "DuraEdge Infield Fines" by DuraEdge Products, Inc. or equal.
    - a. The composition of the mix shall be achieved using mechanical blending equipment prior to delivery to the site and shall be as follows:
      - 1) Total sand content shall be 70-75 percent.
      - 2) The combined amount of sand retained on the medium, coarse and very coarse sieves shall be greater than or equal to 50 percent.
      - 3) The combined amount of silt and clay shall be 25-30 percent.
      - 4) The ratio of silt divided by clay, otherwise known as the SCR, shall be 0.5 – 1.0.
      - 5) No particles greater than 3 millimeters.
      - 6) Equal to or less than 5 percent of particles shall be retained on the 2 millimeter.
  3. Warning Track: "DuraTrax CO Lava Warning Track" by DuraEdge Products, Inc. or equal.
    - a. Warning Track shall be clean, crushed red lava rock resulting in a mix that is red in color, having a yield of approximately 0.9 tons per cubic yard and possessing the following particle size analysis:

Sieve Size	Percent Retained by Weight
3/8"	100
No. 4	90-100
No. 8	60-80
No. 16	45-60
No. 30	30-50
No. 50	20-35
No. 100	10-25
No. 200	5-15

4. Bases Clay: "DuraPitch Premium" by DuraEdge Products, Inc. or equal.
  5. Coarse Infield Cinders: 5/16" clean red lava rock. Clean Red Scoria by TMT or approved equal.
- C. Sports Field Conditioner: "ProSlide" Calcined Clay Conditioner as supplied by DuraEdge Products Inc., or equal.

2.02 NATURAL AGGREGATE PAVING

- A. Supplier: TMT Enterprises, Inc., San Jose, CA, 408-432-9040 as specified and the basis of design unless otherwise noted, or equal. Contact: Matt Moore.

- B. Decomposed Granite: "California Gold Track" fines.
- C. Binder for Decomposed Granite: Natural, non-toxic, colorless and odorless binding material for use with decomposed granite fines; "PHP Organic Aggregate Binder."
  - 1. Binder shall be pre-mixed with the track fines by supplier prior to delivery to project site.
  - 2. Rate: 12 pounds per ton of fines, unless otherwise recommended by fines supplier.

### 2.03 ADDITIONAL MATERIALS

- A. Aggregate Base: As specified in Section 32 11 00 - Base Courses.
- B. Contractor shall supply the following additional to District:
  - 1. (24) 50lbs bags of "DuraEdge Playball"
  - 2. (12) 50lbs bags of "DuraPitch Premium"

## PART 3 - EXECUTION

### 3.01 INFIELD CLAY MIX AT HOME PLATE AND BASES

- A. Home Plate: Excavate evenly designated infield areas and lay a 1/2-inch course of loose clay and compact. Apply 1/2-inch layer of loose clay to cover and finish with fines layer to designated depth.
- B. Bases: Excavate evenly designated infield areas and lay loose clay in 2-inch lifts and compact. Lay additional clay lifts to achieve 4 inches of clay and compact.
- C. Water lightly and compact with 1,000 to 3,000-pound roller.
- D. Spread additional material, roll and compact to establish even finished grade at specified elevation.

### 3.02 INFIELD FINES AND WARNING TRACK MIX

- A. Contractor to lay header board along all turf edges before bringing in warning track and infield fines. Once infield fines and warning track material has been placed contractor to remove header board.
- B. Spread infield fines mix evenly where shown in drawings and screed in 2-inch lifts. Thoroughly water each lift until the entire depth is moist.
- C. Roto-till specified sports field conditioner into the top 4 inches of fines at a rate of 1.0 ton per 1000 square feet.
- D. Compact with a 1,000 to 3,000-pound roller after grading and wetting final lift.
- E. Allow material to dry, then spike and mat drag to establish finish grade at specified elevations.
- F. Water to settle.
- G. Finish grade of infield and warning track fines shall be flush with concrete edgebands. If edge condition is a tall curb set finish grade to finish grade established on the grading Drawings.

### 3.03 SPORTS FIELD CONDITIONER

- A. As specified for infield fines mix.

3.04 AGGREGATE BASE

- A. Install as shown on the Drawings and in accordance with Section 32 11 00 – Base Courses.

3.05 PITCHER'S MOUND MIX

- A. Apply the pitchers' mound clay mix at 2-inch lifts, tamp, compact, and repeat.
- B. Compact with a 1,000 to 3,000-pound roller after grading and wetting final lift.
- C. Fill in back and sides of sloping to the edge of the circle.

3.06 COARSE INFIELD CINDARS

- A. Install as shown on drawings.

3.07 DECOMPOSED GRANITE

- A. Install base course as specified per Section 31 11 00 - Base Courses.
- B. Spread evenly and compact in 2-inch lifts in designated areas.
- C. Water lightly and compact with roller.
- D. Spread additional material, roll and compact to establish even finished grade at specified elevation.

3.08 TOLERANCES

- A. Vertical deviation from specified lines, grades, and detail cross sections shall not exceed 0.04 foot for all surfacing specified in this Section.

END OF SECTION

SECTION 32 33 00

SITE FURNISHINGS

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
  - 1. Site furnishings and installation accessories as shown on the Drawings including, but not necessarily limited to the site furnishings matrix (3.06).
- B. Related Requirements:
  - 1. Section 32 12 16 – Asphalt Paving
  - 2. Section 32 13 13 – Concrete Paving

1.02 REFERENCES

- A. State of California, Business and Transportation Agency, Department of Transportation (Caltrans) "Standard Specifications."

1.03 ADMINISTRATIVE REQUIREMENTS

- A. Submittal Procedures: Action and Informational Submittals shall be submitted in accordance with Section 01 33 00 - Submittal Procedures.
- B. Scheduling and Sequencing:
  - 1. Do not install site furnishings prior to acceptance by District's Representative of area to receive items.
  - 2. Coordinate construction timing of installation of site furnishings in conformance with other work interfacing with installation of the site furnishing items.

1.04 ACTION SUBMITTALS

- A. Shop Drawings: Submit complete shop drawings for all materials or furnishings requiring field or shop fabrication.
- B. Product Data: Manufacturer's catalog cut sheets of materials and equipment to be provided.
  - 1. Include the manufacturer and distributor name, and subcontractor as applicable.
  - 2. Cut sheets clearly describe the specific product by catalog number and that additional non-specified products that may appear on the same cut sheet are crossed out where applicable.
- C. Samples: Colors and finishes for products and furnishings requiring selection by the District's Representative.

1.05 INFORMATIONAL SUBMITTALS

- A. Statement of qualifications for manufacturers and installer if requested by the District's Representative.

1.06 CLOSEOUT SUBMITTALS

- A. Provide operation and maintenance data for items with operable, movable, or replaceable parts, for items with mechanical connections, and for other items as applicable.
- B. Extended warranties as specified.

#### 1.07 QUALITY ASSURANCE

- A. Furnishings shall be reviewed for conformance with the intent of the Contract Documents and accepted by the Contractor prior to installation.
- B. Site furnishings shall be in a new, "first-class" condition as determined by the District's Representative at the time of Final Acceptance.
- C. Field Samples and Mockups: As requested by the District's Representative.

#### 1.08 DELIVERY, STORAGE AND HANDLING

- A. General:
  - 1. The Contractor is responsible for coordination of the delivery, acceptance, handling, and storage of site furnishings.
  - 2. Store and handle site furnishings as acceptable to the District's Representative and so that work or access of others is not impeded.
  - 3. Protect site furnishings from theft or damage until such items have been accepted by the District.
- B. Packaging and Labeling: Furnish materials in manufacturer's unopened, original packaging, bearing original labels showing quantity, description, and name of manufacturer. Verify that materials and components are adequately padded and securely bound in such a manner that no damage occurs to the product during delivery and unloading at the site.
- C. Storage: Damaged materials will be rejected. Remove damaged materials from job site immediately and pay cost of replacement. Determination of damage shall be the sole authority of the District's Representative.
- D. Painted Finishes: Provide non-scratching, non-staining, firmly bound covering for shop-painted finishes until installed and accepted.
- E. Protect wood materials from stains.

#### 1.09 WARRANTY

- A. Manufacturers: Provide District with manufacturer's written extended product warranties as available for the specified products.

### PART 2 - PRODUCTS

#### 2.01 SITE FURNISHINGS - GENERAL

- A. In addition to those described in the following Articles, refer to the Site Furnishing Matrix included at the end of this Section for complete list of items to be provided.

### PART 3 - EXECUTION

#### 3.01 EXAMINATION

- A. Prior to commencement of work described in this Section, carefully inspect installed work, and verify all such work is correct and complete. Immediately notify the District's Representative of any discrepancy before proceeding with work.

#### 3.02 INSTALLATION - GENERAL

- A. Conform to layout shown on Drawings. Final placement shall be field verified with the District's Representative.

- B. Installation of products shall be as shown in the Drawings, or according to manufacturer's instructions. If discrepancies are found, or if information is lacking, consult with the District's Representative prior to beginning the work.
- C. Concrete footings shall conform to requirements of Section 32 32 15 – Landscape Concrete unless noted otherwise.
- D. Furnish anchorage and fastening required for installation to ensure proper fit and accurate placements. Bolts, where exposed, shall be cut back to within three threads of the nut.

3.03 TRASH RECEPTACLES

- A. Install level and plumb in accordance with manufacturer's instructions at locations indicated on the Drawings.

3.04 BLEACHERS

- A. Temporary bleachers shall set on a concrete pad as shown on the Drawings.

3.05 CLEANING AND ADJUSTMENT

- A. Protect furnishings from damage until acceptance of work. Do not remove protective wrappings from furnishings until so instructed by the District's Representative.
- B. Clean soiled site furnishings prior to acceptance by District.
- C. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by the District's Representative.
- D. Replace damaged items to the satisfaction of the District's Representative. Replace missing accessories at no cost to District.

3.06 SITE FURNISHINGS MATRIX

ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.	QTY.	FINISH/COLO R	DISTRIBUTOR/CONTACT
A.	4 Row Bleachers with UA pocket	Belson Outdoor	4 row 21' long BD-U0421C	6 ea.	Anodized Aluminum	Belson Outdoor (630) 897-8489
B.	5 Row Bleachers with UA pocket	Belson Outdoor	BD-U0521C	Per plan	Anodized Aluminum	Belson Outdoor (630) 897-8489
C.	Baseball/Softball Pitcher's Rubber	Sportsfield Specialties	SHSPR-4SO – Rawlings official size 4-sided prof.pitching rubber, 6"x24"	6 ea.	White	Sportsfield Specialties Alex Fletcher (408) 659-6055
D.	Baseball/Softball Bases	Sportsfield Specialties	SHBBPLSET – Rawlings Original Jack Corbett MLB Hollywood Base set	2 sets	White	Sportsfield Specialties Alex Fletcher (408) 659-6055
E.	Softball 1 <sup>st</sup> base (double)	Sportsfield Specialties	SHIBD SH12920705	1 ea.	STD	Sportsfield Specialties Alex Fletcher (408) 659-6055

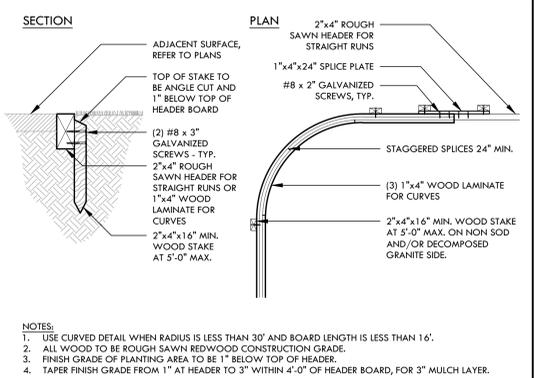
ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.	QTY.	FINISH/COLO R	DISTRIBUTOR/CONTACT R
F.	Baseball/Softball Home Plates	Sportsfield Specialties	SHP-UM – Rawlings Hollywood MLB pro style universal homeplate	6 ea.	White	Sportsfield Specialties Alex Fletcher (408) 659-6055
G.	Foul Pole Sets	Sportsfield Specialties	FPW420 – Softball  (1) FPW630 w/custom wing @ 42" CLF & (1) FPW630 @ 6' CLF –Baseball	2 ea.	Yellow	Sportsfield Specialties Alex Fletcher (408) 659-6055
H.	Basezone Field Wall Padding	Sportsfield Specialties	BFWPCL46/BF WPCL46DG	Custom	Chain Link Bolt & Plate Mount or per details	Sportsfield Specialties Alex Fletcher (408) 659-6055
I.	Batting Cage Netting	Sportsfield Specialties	BSSN60	Custom	Black	Sportsfield Specialties Alex Fletcher (408) 659-6055
J.	Batting Cage Synthetic Turf & Pad	Challenger Turf	EPXP   5MM	Per plan	Green	American Sports Construction Josh Sarratt (209) 914-9131
K.	Barrier Netting System	Sportsfield Specialties	TFBSS420P-SG StormGuard Ball Netting System	Per Plan	Black Netting and Posts	Sportsfield Specialties Alex Fletcher (408) 659-6055
L.	Scorer's Table	Sportsfield Specialties	ST58EMKLSC Custom – Panel to read: "West Campus High School"	2 ea.	TBD	Sportsfield Specialties Alex Fletcher (408) 659-6055
M.	Flag Pole	Concord American Flagpole	IRW25D61	2 ea.	STD	Concord American Flagpole 800-527-3902
N.	Drinking Fountain (Pedestal)	Elkay	LK4420BF1U <i>Custom per detail</i>	2 ea.	TBD	Elkay 18002606640 <a href="https://www.elkay.com/us/en.html">https://www.elkay.com/us/en.html</a>
O.	Drinking Fountain (wall mount)	Murdock	A172.8-VR-BF12 Series	2 ea.	TBD	Murdock 800-453-7465 <a href="http://www.murdockmfg.com">www.murdockmfg.com</a>
P.	Two-Tier Team Benches	Sportsfield Specialties	PTBTT8	2 ea.	Polyboard: TBD Frame: TBD	Sportsfield Specialties Alex Fletcher (408) 659-6055
Q.	Baseball Scoreboard	Nevco	1608 with ADO	1 ea.	Custom	Steve Warner (916) 716-4201
R.	Softball Scoreboard	Nevco	1608 with ADO	1 ea.	Custom	Steve Warner (916) 716-4201
S.	Outfield Distance Banners	BSN Sports	SKU#1079647 BSN Sports 38" x 56" Banner w/ 24" Numbers	6	TBD	BSN Sports Dallas, TX 1-800-856-3488
T.	Fence Cap	Aer-Flo, Inc.	PlastiCap	Per Plans	Yellow Black	Aer-Flo, Inc., Bradenton, FL 1-800-823-7356
U.	Guard Rail System	Sportsfield Specialties	GRS42	Custom section per plans	Custom size Color: Maroon	Sportsfield Specialties Alex Fletcher (408) 659-6055

ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.	QTY.	FINISH/COLO R	DISTRIBUTOR/CONTACT R
V.	Bench with Backrest	Sportsfield Specialties	ATBBRSP 10	6 ea.	Powder Coat Black	Sportsfield Specialties Alex Fletcher (408) 659-6055
W.	Helmet Cubby and Coat Rack Wall	Sportsfield Specialties	SUWHCCRWM	8	Std	Sportsfield Specialties Alex Fletcher (408) 659-6055
X.	Helmet, Bat Bin & Side Storage	Sportsfield Specialties	SUAHCBBSS	2 ea.	Powder Coat Black	Sportsfield Specialties Alex Fletcher (408) 659-6055
Y.	Portable Batting Cage	C&H Baseball	CAG100 <b>Netting:</b> #60 Knotted Nylon <b>Padding:</b> Peoria Option <b>Ballstop:</b> Unpadded <b>Upgrade Tires (Flat-less):</b> 3 Amerityre Flat- less Tires	2 ea.	STD	C& H Baseball 800 248 5192 <a href="#">Home - C &amp; H Baseball</a> <a href="#">(chbaseball.com)</a>
Z.	Batting Practice hitting screen set	C&H Baseball	Pro Set Package SCR100 L Screen, (2) SCR200 First/Third Base Screen, (1) SCR300 Second Base Screen, (1) Ball Caddy Wheel Axle System #96 Upgrade	2 ea	STD	C& H Baseball 800 248 5192 <a href="#">Home - C &amp; H Baseball</a> <a href="#">(chbaseball.com)</a>
AA.	Ball Caddy- Baseball	C&H Baseball	BCD100	2 ea	STD	C& H Baseball 800 248 5192 <a href="#">Home - C &amp; H Baseball</a> <a href="#">(chbaseball.com)</a>
BB.	Ball Caddy- Softball	C&H Baseball	SB CD200	2 ea	STD	C& H Baseball 800 248 5192 <a href="#">Home - C &amp; H Baseball</a> <a href="#">(chbaseball.com)</a>
CC.	Homeplate batting practice mat	Beacon Athletics	110-340-309	4	green	Beacon Athletics 800 747 5985 <a href="#">Beacon Athletics   The Ultimate Ballfield Resource</a>
DD.	Infield Turf Protector- baseball	Beacon Athletics	280-107- 110  15'x26x56'	1	Forest Green	Beacon Athletics 800 747 5985 <a href="#">Beacon Athletics   The Ultimate Ballfield Resource</a>
EE.	Baseball QVC key	Ewing	LP-44K-10 1IN QCV KEY SKU#: 0100547 0 MFG#: LP-44K	2	STD	Ewing Outdoor Supply 916-383-2400 <a href="https://www.ewingoutdo&lt;br/&gt;orsupply.com/">https://www.ewingoutdo orsupply.com/</a>

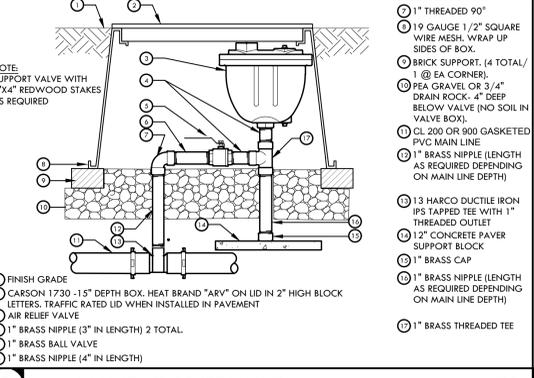
ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.	QTY.	FINISH/COLO R	DISTRIBUTOR/CONTACT R
FF.	Baseball hose couplers	Ewing	LP-HS-101/23 HOSE SWIVEL SKU#: 0100553 0 MFG#: LP-HS- 101	2	STD	Ewing Outdoor Supply 916-383-2400 <a href="https://www.ewingoutdoorsupply.com/">https://www.ewingoutdoorsupply.com/</a>
GG.	Baseball base dig out tools	Schutt Sports	RAWL BASE DIG OUT TOOL SKU#: 6850014 2 MFG#: 129166 10	2	STD	Ewing Outdoor Supply 916-383-2400 <a href="https://www.ewingoutdoorsupply.com/">https://www.ewingoutdoorsupply.com/</a>
HH.	Baseball 6x12 rubber mats	Ewing	SPT 6' X 12' CLY HP STNC MAT TUF LN & HP SKU#: 6850205 4	2	STD	Ewing Outdoor Supply 916-383-2400 <a href="https://www.ewingoutdoorsupply.com/">https://www.ewingoutdoorsupply.com/</a>
II.	Baseball base caddy	Schutt Sports	SCHUTT BASE CADDY *DISC* SKU#: 6850014 3 MFG#:1291544 0	1	STD	Ewing Outdoor Supply 916-383-2400 <a href="https://www.ewingoutdoorsupply.com/">https://www.ewingoutdoorsupply.com/</a>
JJ.	Softball QVC key	Ewing	LP-44K-10 1IN QCV KEY SKU#: 0100547 0 MFG#: LP-44K	2	STD	Ewing Outdoor Supply 916-383-2400 <a href="https://www.ewingoutdoorsupply.com/">https://www.ewingoutdoorsupply.com/</a>
KK.	Softball hose couplers	Ewing	LP-HS-101/23 HOSE SWIVEL SKU#: 0100553 0 MFG#: LP-HS- 101	2	STD	Ewing Outdoor Supply 916-383-2400 <a href="https://www.ewingoutdoorsupply.com/">https://www.ewingoutdoorsupply.com/</a>
LL.	Softball base dig out tools	Schutt Sports	RAWL BASE DIG OUT TOOL SKU#: 6850014 2 MFG#: 129166 10	2	STD	Ewing Outdoor Supply 916-383-2400 <a href="https://www.ewingoutdoorsupply.com/">https://www.ewingoutdoorsupply.com/</a>
MM.	Softball 6x12 rubber mats	Ewing	SPT 6' X 12' CLY HP STNC MAT TUF LN & HP SKU#: 6850205 4	2	STD	Ewing Outdoor Supply 916-383-2400 <a href="https://www.ewingoutdoorsupply.com/">https://www.ewingoutdoorsupply.com/</a>
NN.	Softball base caddy	Schutt Sports	SCHUTT BASE CADDY *DISC* SKU#: 6850014 3 MFG#:1291544 0	1	STD	Ewing Outdoor Supply 916-383-2400 <a href="https://www.ewingoutdoorsupply.com/">https://www.ewingoutdoorsupply.com/</a>

END OF SECTION

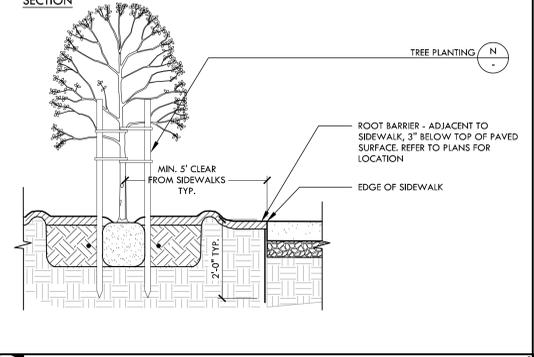
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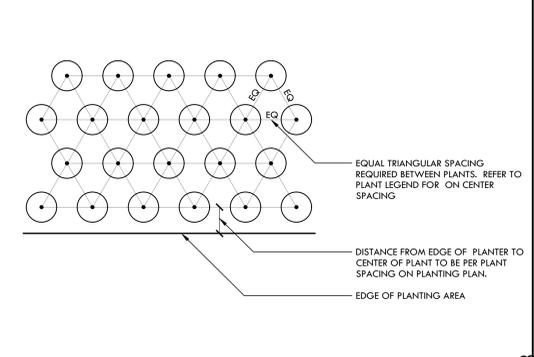
**R REDWOOD HEADER BOARD** NTS



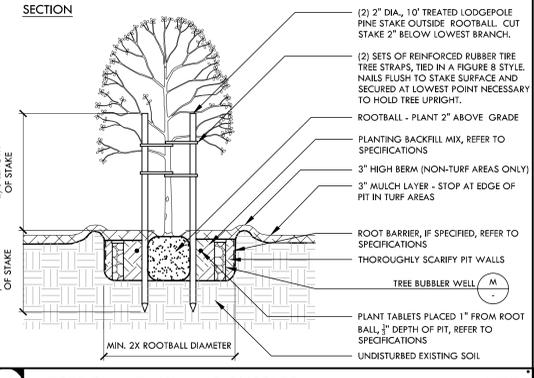
**Q MAIN LINE AIR RELIEF VALVE** NTS



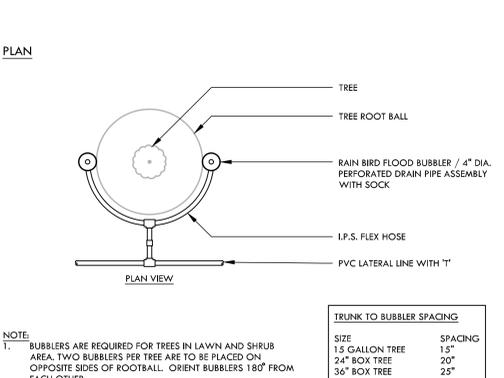
**P ROOT BARRIER AT SIDEWALK AND EDGEBANDS** NTS



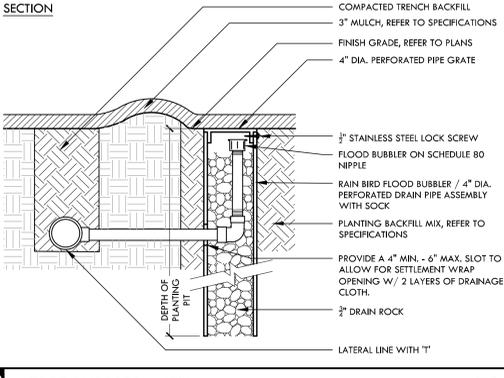
**O TRIANGULAR SPACING DIAGRAM** NTS



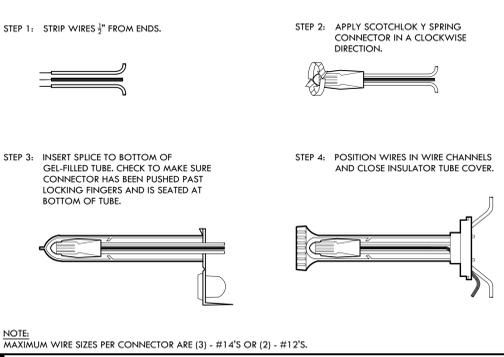
**N TREE PLANTING AND BUBBLER** NTS



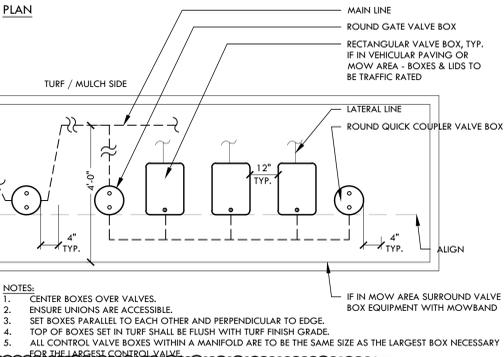
**M TREE BUBBLER WELL** NTS



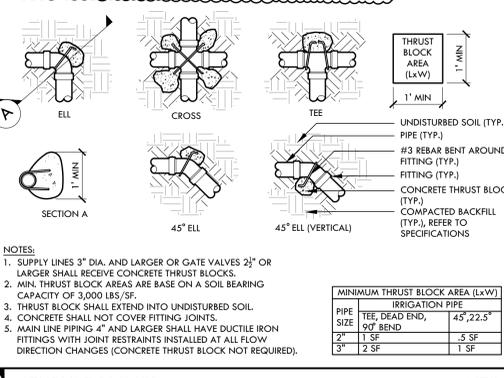
**L CONTROL WIRE CONNECTION** NTS



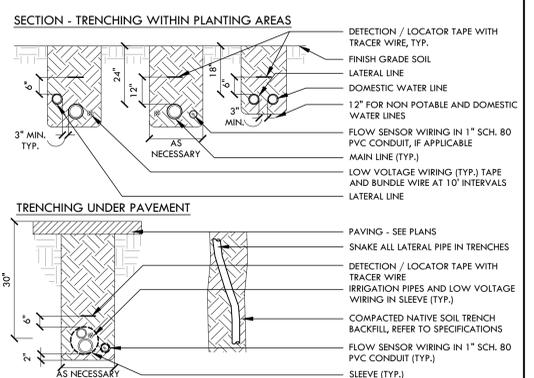
**K VALVE BOX LAYOUT WITH GLOBE VALVES** NTS



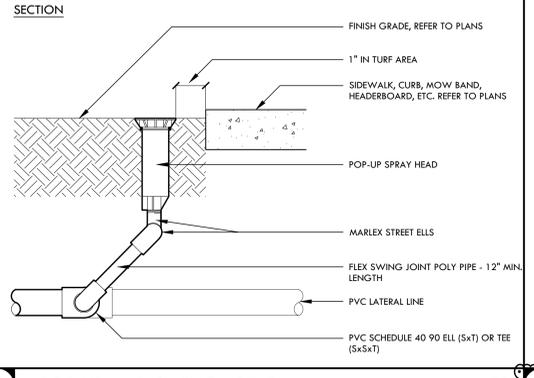
**J THRUST BLOCK** NTS



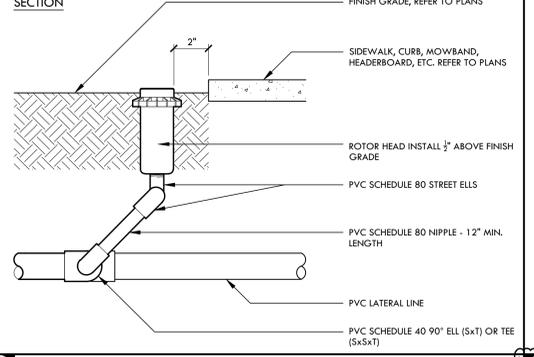
**F QUICK COUPLER VALVE - IN LANDSCAPE** NTS



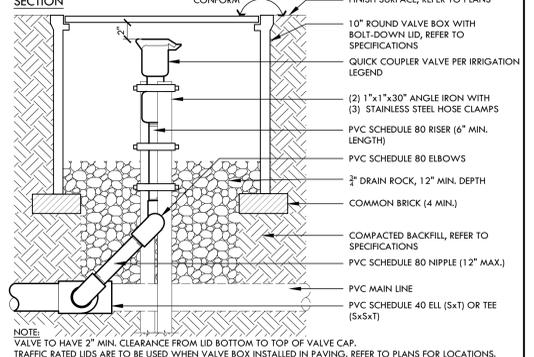
**I IRRIGATION PIPE TRENCHING** NTS



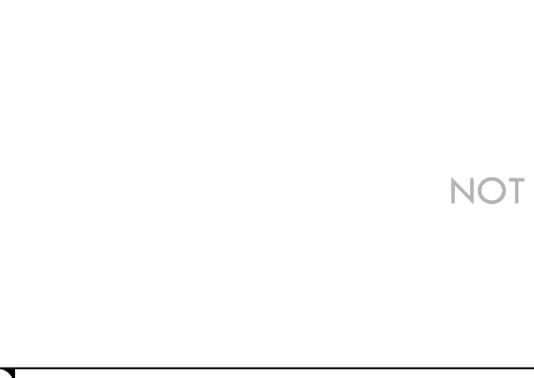
**H POP UP AND SWING JOINT** NTS



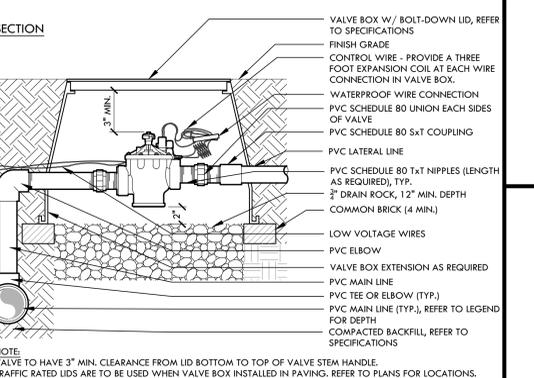
**G ROTOR HEAD AND SWING JOINT** NTS



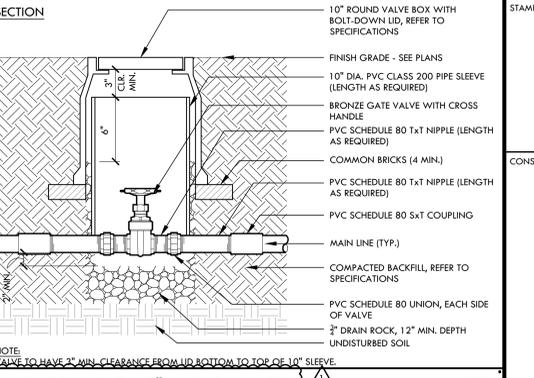
**C GATE VALVE - 4" AND LARGER** NTS



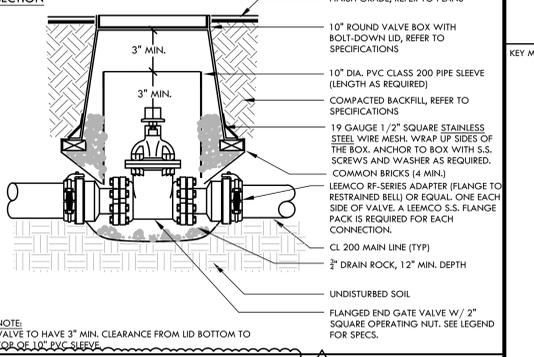
**B MANUAL CONTROL VALVE** NTS



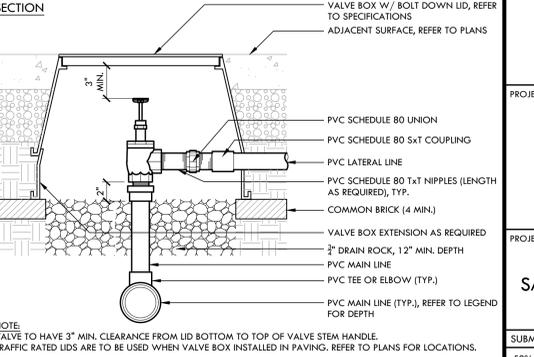
**E REMOTE CONTROL VALVE** NTS



**D GATE VALVE - 3" AND SMALLER** NTS



**D GATE VALVE - 3" AND SMALLER** NTS



**C GATE VALVE - 4" AND LARGER** NTS



**B MANUAL CONTROL VALVE** NTS

**VERDE DESIGN**  
 LANDSCAPE ARCHITECTURE  
 CIVIL ENGINEERING  
 SPORT PLANNING & DESIGN  
 1843 Iron Point Rd. Suite 140  
 Folsom, CA 95630  
 tel: 916.413.6554  
 fax: 916.413.6525  
 www.VerdeDesigninc.com

REGISTERED LANDSCAPE ARCHITECT  
 STATE OF CALIFORNIA  
 No. 4995  
 EXPIRATION DATE: 06/30/2025

STAMP  
 CONSULTANT

KEY MAP

SHEET TITLE  
**PLANTING AND IRRIGATION DETAILS**  
 PROJECT NAME  
**WEST CAMPUS HIGH SCHOOL BASEBALL & SOFTBALL IMPROVEMENTS**  
 PROJECT ADDRESS  
**5022 58TH STREET SACRAMENTO, CA 95820**

SUBMITTAL	DATE
50% SUBMITTAL	10/20/23
100% DSA SUBMITTAL	12/15/23
BACKCHECK SUBMITTAL	03/18/24

NO.	REVISIONS	DATE
▲	ADDENDUM 01	04/12/2024

DRAWN BY	CHECKED BY
VERDE	CS/MB

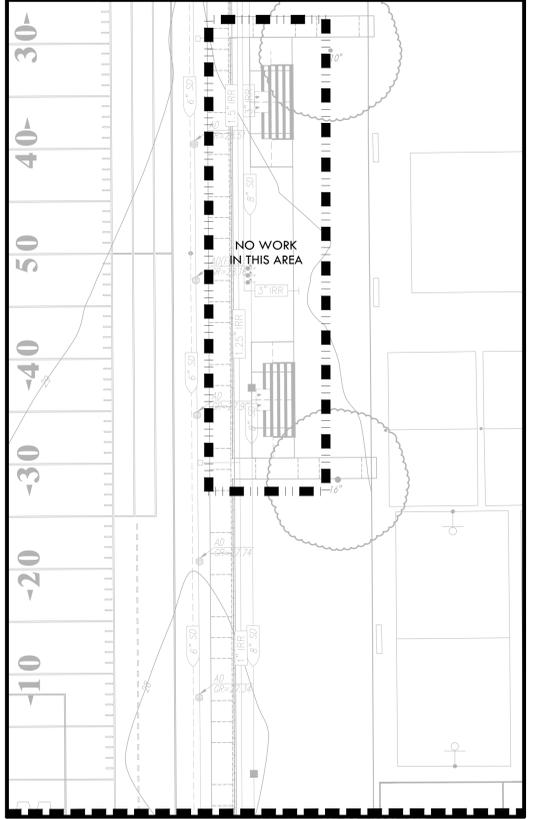
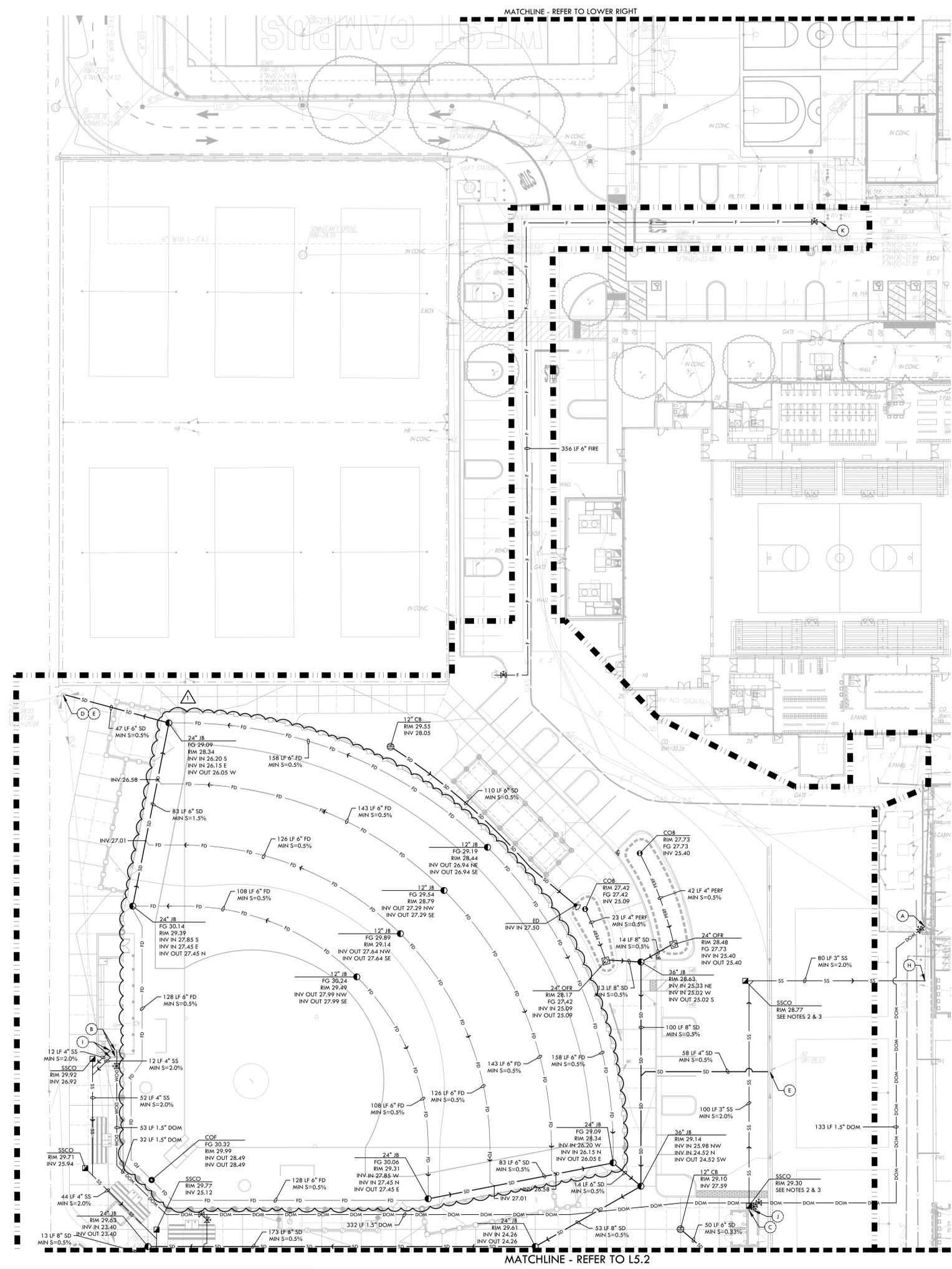
DATE ISSUED	SCALE
03/18/2024	AS NOTED

PROJ. NO. 2309900  
 SHEET NO. **D6.1**

NOT USED

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### DRAINAGE & UTILITY NOTES

- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES, AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DISTRICT REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND SERVICE ALERT (UGSA) AT (800) 277-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF UGA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS AND SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
- THE CONTRACTOR SHALL FIELD VERIFY INVERT DEPTHS, PIPE SIZES, PUMP INFORMATION, OF EXISTING SANITARY SEWER LINES ON SITE PRIOR TO THE CONSTRUCTION OF NEW SANITARY SEWER LINES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY DISTRICT AND ENGINEER OF ANY DISCREPANCIES. THE EXISTING PRESSURE LINE SHALL BE INVESTIGATED ON SITE TO DETERMINE PUMP LOCATION, TYPE, CAPACITY, CONTROL, AND ALARM PANEL.
- THE CONTRACTOR SHALL INSTALL SANITARY SEWER LINES A MINIMUM IF ONE FOOT OF VERTICAL CLEARANCE BELOW WATER LINES AND STORM DRAIN LINES.
- ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. TO REMAIN, SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.
- THE CONTRACTOR IS TO PROTECT DRAINAGE SYSTEM FROM DEBRIS, INCLUDING SOIL, ROCK MATERIAL, AND TRASH FROM ENTERING THE PIPE DURING CONSTRUCTION. CONTRACTOR SHALL AVOID PLACING CONSTRUCTION VEHICLES OVER INSTALLED DRAINAGE TRENCHES TO PREVENT CRUSHING OF PIPE.
- COORDINATE ALL SLEEVING AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESE CONTRACT DOCUMENTS.
- THE CONTRACTOR IS TO ENSURE THAT ALL REMAINING ACTIVE AND NEW DRAINAGE AND UTILITY LINES ARE PROTECTED AND UNHARMED FROM TRENCHING AND FOOTING EXCAVATIONS FOR NEW FOOTINGS, PARTICULARLY FOR NEW FENCING AND WALLS.
- ALL ABANDONED STORM LINES SHALL REMAIN IN PLACE UNLESS IN CONFLICT WITH PROPOSED DRAINAGE, UTILITY, OR SURFACING OPERATIONS, IN WHICH CASE ABANDONED PIPE IN CONFLICT SHALL BE REMOVED. REMAINING ABANDONED STORM PIPE SHALL BE SEALED WITH APPROPRIATELY SIZED CONCRETE CAP (3 SACK MIX) 6" ENVELOPE OUTSIDE AND INSIDE DIAMETER OF PIPE.
- PRIOR TO ALL DRAINAGE AND UTILITY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL POTENTIAL DRAINAGE CONNECTIONS AND EXISTING UTILITY BY POT-HOLING. IN ADDITION, ALL DOWNSTREAM CONNECTIONS TO EXISTING STRUCTURES SHALL BE THE START OF THESE OPERATIONS, AND GRADES SHALL BE VERIFIED.
- WHEN WORK HAS TO OCCUR UNDER THE DRIFLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.

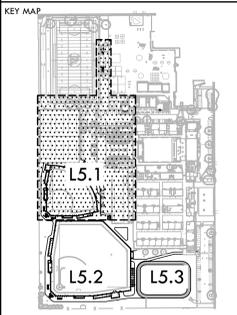
### DRAINAGE & UTILITY LEGEND

SYM	DESCRIPTION	DETAIL NUMBER	SHEET NUMBER
---	LIMIT OF WORK		
■	REPLACE EXISTING GRATE WITH SOLID LID		
⊕	CATCH BASIN, SIZE PER PLAN (CB)	G, D, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z	D1.1, D1.2, D1.3, D1.4, D1.5, D1.6, D1.7, D1.8, D1.9, D1.10, D1.11, D1.12, D1.13, D1.14, D1.15, D1.16, D1.17, D1.18, D1.19, D1.20
⊙	JUNCTION BOX, SIZE PER PLAN (JB)		
○	CLEANOUT IN BIORETENTION AREA (COB)		
■	SANITARY SEWER CLEANOUT (SSCO)		
○	CLEANOUT IN FINES (COF)		
⊕	DRY WELL FOR DRINKING FOUNTAIN (DW)		
⊕	DOMESTIC WATER GATE VALVE		
⊕	FIRE HYDRANT		
⊕	OVERFLOW RISER (OFR) WITH GRATE/STANDPIPE AT BIORETENTION AREA, SIZE PER PLAN		
⊕	ENERGY DISSIPATOR (ED)		
---	SOLID WALL STORM DRAIN		
---	FRENCH DRAIN		
---	WALL DRAIN		
---	INFILTRATION TRENCH AT BIORETENTION AREA		
---	SANITARY SEWER LINE		
---	DOMESTIC WATER LINE		
---	GAS LINE		
---	FIRE WATER LINE		
---	BIORETENTION AREA (BOTTOM OF BIORETENTION BASIN)		
(A)	DOMESTIC WATER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION PRIOR TO INITIATING IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO DISTRICT IN WRITING.		
(B)	DOMESTIC WATER CONNECTION TO DRINKING FOUNTAIN		
(C)	DOMESTIC WATER CONNECTION TO BUILDING, REFER TO ARCHITECTURAL PLANS.		
(D)	STORM DRAIN POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATION PRIOR TO INITIATING IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO DISTRICT IN WRITING.		
(E)	PROTECT EXISTING DRAIN INLET IN PLACE		
(F)	EXISTING STRUCTURE TO BE BURIED IN PLACE, REPLACE EXISTING GRATE WITH SOLID CAST IRON LID WITH MINIMUM 6" COVER IN INFILTRATION FINES AND 9" COVER IN GRASS		
(G)	ADJUST RIM ELEVATION TO PROPOSED GRADE, SEE GRADING PLAN ON SHEETS L4.1 - L4.3 FOR ADDITIONAL INFORMATION		
(H)	SANITARY SEWER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATION PRIOR TO INITIATING IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO DISTRICT IN WRITING.		
(I)	SANITARY SEWER CONNECTION TO DRINKING FOUNTAIN		
(J)	SANITARY SEWER CONNECTION TO BUILDING, REFER TO ARCHITECTURAL PLANS.		
(K)	FIRE WATER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION PRIOR TO INITIATING IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO DISTRICT IN WRITING.		
(L)	GAS POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION PRIOR TO INITIATING IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO DISTRICT IN WRITING.		
(E)	EXISTING		
INV	INVERT		
LF	LINEAR FEET		
MIN	MINIMUM		
RIM	RIM ELEVATION		
S=0.5%	SLOPE		
N, S, E, W	NORTH, SOUTH, EAST, WEST		

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 tel: 916.413.6524  
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CONSULTANT



SHEET TITLE

**DRAINAGE AND UTILITY PLAN - SOFTBALL & PARKING**

PROJECT NAME

**WEST CAMPUS HIGH SCHOOL BASEBALL & SOFTBALL IMPROVEMENTS**

PROJECT ADDRESS

**5022 58TH STREET SACRAMENTO, CA 95820**

NO.	REVISIONS	DATE
1	ADDENDUM 01	04/12/24

SUBMITTAL	DATE
50% SUBMITTAL	10/20/23
100% DSA SUBMITTAL	12/15/23
BACKCHECK SUBMITTAL	03/18/24

DRAWN BY	DK	CHECKED BY	CS/MB
DATE ISSUED	03/18/2024	SCALE	1"=20'-0"
PROJ. NO.	2309900		
SHEET NO.	L5.1		

## DRAINAGE & UTILITY NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES, AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DISTRICT REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND SERVICE ALERT (UGSA) AT (800) 277-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF UGA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS AND SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
2. THE CONTRACTOR SHALL FIELD VERIFY INVERT DEPTHS, PIPE SIZES, PUMP INFORMATION, OF EXISTING SANITARY SEWER LINES ON SITE PRIOR TO THE CONSTRUCTION OF NEW SANITARY SEWER LINES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY DISTRICT AND ENGINEER OF ANY DISCREPANCIES. THE EXISTING PRESSURE LINE SHALL BE INVESTIGATED ON SITE TO DETERMINE PUMP LOCATION, TYPE, CAPACITY, CONTROL, AND ALARM PANEL.
3. THE CONTRACTOR SHALL INSTALL SANITARY SEWER LINES A MINIMUM IF ONE FOOT OF VERTICAL CLEARANCE BELOW WATER LINES AND STORM DRAIN LINES.
4. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. TO REMAIN, SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.
5. THE CONTRACTOR IS TO PROTECT DRAINAGE SYSTEM FROM DEBRIS, INCLUDING SOIL, ROCK MATERIAL, AND TRASH FROM ENTERING THE PIPE DURING CONSTRUCTION. CONTRACTOR SHALL AVOID PLACING CONSTRUCTION VEHICLES OVER INSTALLED DRAINAGE TRENCHES TO PREVENT CRUSHING OF PIPE.
6. COORDINATE ALL SLEEVING AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESE CONTRACT DOCUMENTS.
7. THE CONTRACTOR IS TO ENSURE THAT ALL REMAINING ACTIVE AND NEW DRAINAGE AND UTILITY LINES ARE PROTECTED AND UNHARMED FROM TRENCHING AND FOOTING EXCAVATIONS FOR NEW FOOTINGS, PARTICULARLY FOR NEW FENCING AND WALLS.
8. ALL ABANDONED STORM LINES SHALL REMAIN IN PLACE UNLESS IN CONFLICT WITH PROPOSED DRAINAGE, UTILITY, OR SUBGRADING OPERATIONS, IN WHICH CASE ABANDONED PIPE IN CONFLICT SHALL BE REMOVED. REMAINING ABANDONED STORM PIPE SHALL BE SEALED WITH APPROPRIATELY SIZED CONCRETE CAP (3 SACK MIX) 6" ENVELOPE OUTSIDE AND INSIDE DIAMETER OF PIPE.
9. PRIOR TO ALL DRAINAGE AND UTILITY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL POTENTIAL DRAINAGE CONNECTIONS AND EXISTING UTILITY BY POT-HOLING. IN ADDITION, ALL DOWNSTREAM CONNECTIONS TO EXISTING STRUCTURES SHALL BE THE START OF THESE OPERATIONS, AND GRADES SHALL BE VERIFIED.
10. WHEN WORK HAS TO OCCUR UNDER THE DRIFLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.



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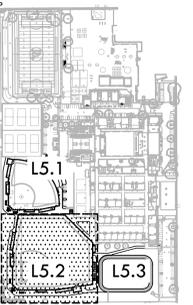


CONSULTANT

## DRAINAGE & UTILITY LEGEND

SYM	DESCRIPTION	DETAIL NUMBER
	LIMIT OF WORK	SHEET NUMBER
	REPLACE EXISTING GRATE WITH SOLID LID	
	CATCH BASIN, SIZE PER PLAN (CB)	(G, D11)
	JUNCTION BOX, SIZE PER PLAN (JB)	(G, D11)
	CLEANOUT IN BIORETENTION AREA (COB)	(A, D1.2)
	SANITARY SEWER CLEANOUT (SSCO)	(B, D1.1)
	CLEANOUT IN FINES (COF)	(D, D1.1)
	DRY WELL FOR DRINKING FOUNTAIN (DW)	(J, D11)
	DOMESTIC WATER GATE VALVE	(C, D, D6.1)
	FIRE HYDRANT	(D, E, D1.2)
	OVERFLOW RISER (OFR) WITH GRATE/STANDPIPE AT BIORETENTION AREA, SIZE PER PLAN	(B, D1.2)
	ENERGY DISSIPATOR (ED)	(C, D1.2)
	SOLID WALL STORM DRAIN	(C, D11)
	FRENCH DRAIN	(M, N, D11)
	WALL DRAIN	(F, D1.1)
	INFILTRATION TRENCH AT BIORETENTION AREA	(A, D1.2)
	SANITARY SEWER LINE	(C, D11)
	DOMESTIC WATER LINE	(C, D11)
	GAS LINE	(C, D1.1)
	FIRE WATER LINE	(C, D1.1)
	BIORETENTION AREA (BOTTOM OF BIORETENTION BASIN)	(F, D1.2)
(A)	DOMESTIC WATER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION PRIOR TO INITIATING IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO DISTRICT IN WRITING.	
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(G)	ADJUST RIM ELEVATION TO PROPOSED GRADE, SEE GRADING PLAN ON SHEETS L4.1 - L4.3 FOR ADDITIONAL INFORMATION	
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(E)	EXISTING	
INV	INVERT	
LF	LINEAR FEET	
MIN	MINIMUM	
RIM	RIM ELEVATION	
S=0.5%	SLOPE	
N, S, E, W	NORTH, SOUTH, EAST, WEST	

KEY MAP



SHEET TITLE

**DRAINAGE AND UTILITY PLAN - BASEBALL**

PROJECT NAME

**WEST CAMPUS HIGH SCHOOL  
BASEBALL & SOFTBALL IMPROVEMENTS**

PROJECT ADDRESS

**5022 58TH STREET  
SACRAMENTO, CA 95820**

SUBMITTAL

SUBMITTAL	DATE
50% SUBMITTAL	10/20/23
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NO.

NO.	REVISIONS	DATE
1	ADDENDUM 01	04/12/24

DRAWN BY

DK      CS/MB

DATE ISSUED

03/18/2024      SCALE 1"=20'-0"

PROJ. NO.

2309900

SHEET NO.

**L5.2**

DRAINAGE AND UTILITY PLAN - BASEBALL

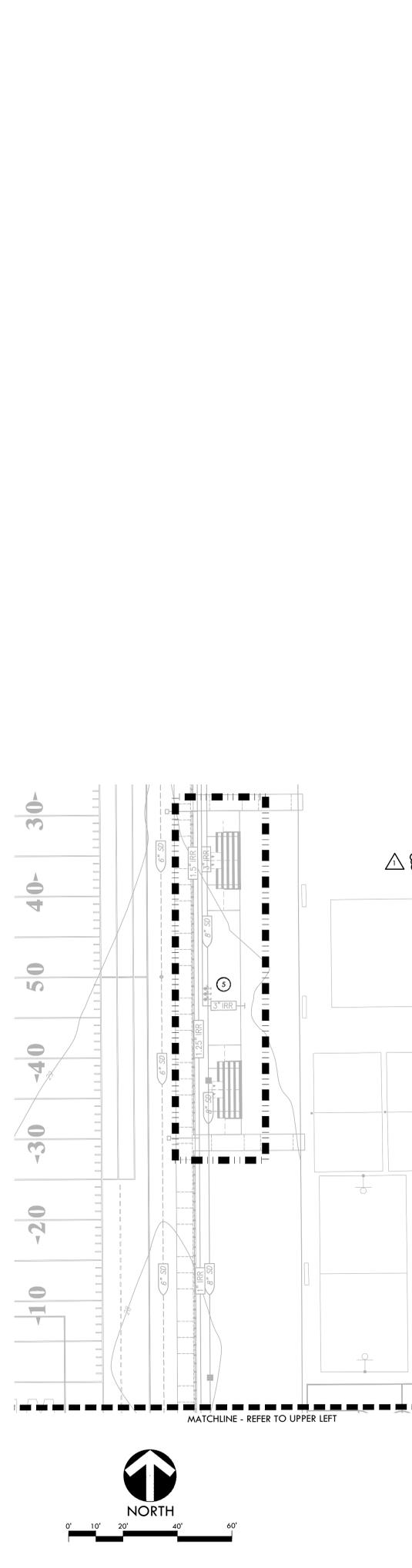
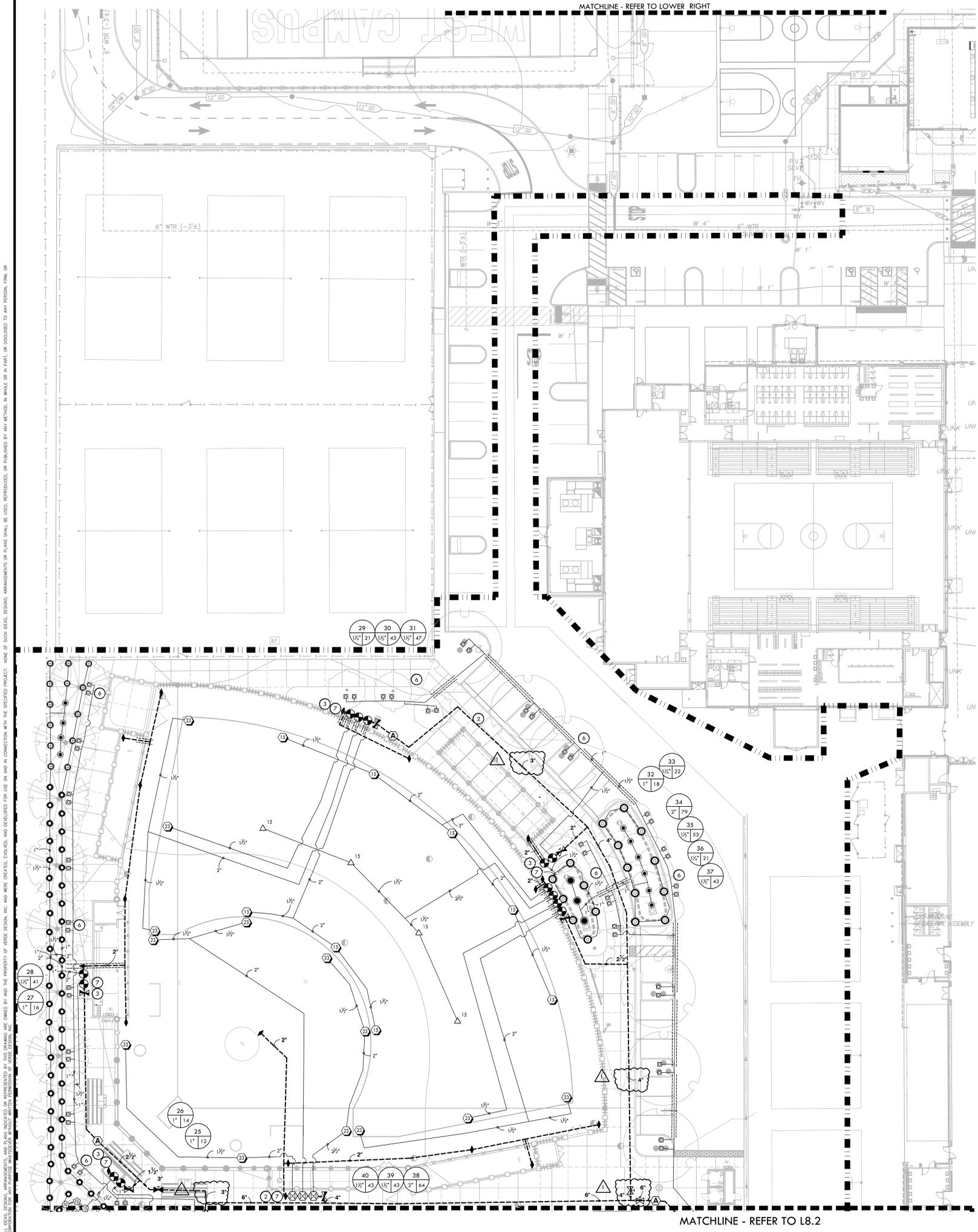
MATCHLINE - REFER TO L5.1

MATCHLINE - REFER TO L5.3



0' 10' 20' 40' 60'

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**IRRIGATION NOTES**

- THE SYSTEM IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF 325 GPM WITH A MAXIMUM 80 STATIC PSI AT THE IRRIGATION BOOSTER PUMP. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO BEGINNING WORK. CONTACT OWNER IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAY.
- ALL WORK SHALL CONFORM TO LOCAL AND STATE CODES AND ORDINANCES. ALL IRRIGATION WORK SHALL CONFORM TO THE LANDSCAPE SECTION OF THE STANDARD PLAN DETAILS FOR PUBLIC WORKS CONSTRUCTION. PROJECT AND DETAILS AND SPECIFICATIONS SHALL TAKE PRECEDENCE OVER STANDARD PLAN DETAILS.
- ALL PLASTIC FITTINGS SHALL BE A MINIMUM OF 18" APART TO FACILITATE REMOVAL AND REPLACEMENT OF INDIVIDUAL FITTINGS. TRENCHING DEPTHS OF POTABLE WATER MAIN SHALL BE 2'-4". ALL MAINS, LATERALS AND CONTROL WIRES SHALL BE INSTALLED IN SCHEDULE 40 PURPLE P.V.C. SLEEVES (OF APPROPRIATE SIZE) UNDER ALL A.C. AND P.C.C. PAVEMENT.
- IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, QUICK COUPLERS, ETC. ARE SHOWN OUTSIDE FIELD, OR LIMIT OF WORK, INTENT IS FOR PIPING, VALVES, ETC., TO BE INSTALLED WITHIN FIELD AREAS OF PROPERTY. INDICATE EXACT LOCATIONS OF IRRIGATION EQUIPMENT ON RECORD DRAWINGS.
- CONTRACTOR SHALL ADJUST IRRIGATION HEADS FOR OPTIMUM COVERAGE WHILE REDUCING OVER SPRAY ONTO WALKWAYS AND ADJACENT STRUCTURES. VALVES SHALL BE ADJUSTED TO AVOID MISTING AS APPLICABLE. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO HEAD LOCATIONS IN FIELD AS NECESSARY ONLY WITH THE APPROVAL OF THE CITY ENGINEER.
- CONTRACTOR SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

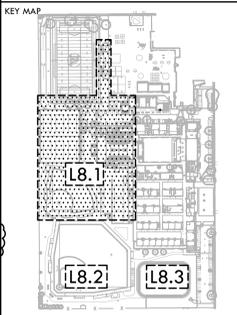
**IRRIGATION AND CONDUIT LEGEND**

SYM.	MANUF.	MODEL NO. / DESCRIPTION	DSGN. RAD.	PSI	GPM	DYL REF
15	HUNTER	I-40-06-SS-ON-15 DUAL OPPOSING NOZZLE	40'-50'	60	13.2	
16	HUNTER	I-40-06-SS-10 ADJUSTABLE SPRAY NOZZLE	50'	60	11.3	
17	HUNTER	I-40-06-SS-15 ADJUSTABLE SPRAY NOZZLE	55'	60	15.7	
18	HUNTER	I-40-06-SS-23 ADJUSTABLE SPRAY NOZZLE	62'	60	21.3	
19	HUNTER	I-40-06-SS-25 ADJUSTABLE SPRAY NOZZLE	66'	60	23.9	
20	HUNTER	I-20-06-1A-SS-R 2.0 ADJUSTABLE SPRAY NOZZLE	24'	50	2.1	
21	HUNTER	I-20-06-SS-SR-R 3.0 ADJUSTABLE SPRAY NOZZLE	21'	50	3	
22	HUNTER	I-20-06-SS-R 5.0 ADJUSTABLE SPRAY NOZZLE	36'	55	5.7	
23	HUNTER	I-20-06-SS-R 8.0 ADJUSTABLE SPRAY NOZZLE	39'	55	9	
24	HUNTER	PROS-12-PRS30-CV 10A ADJUSTABLE SHRUB SPRAY NOZZLE	10'	30	0.25-2.00	
25	HUNTER	PROS-12-PRS30-CV 12A ADJUSTABLE SHRUB SPRAY NOZZLE	12'	30	0.32-2.52	
26	HUNTER	PROS-12-PRS40-CV W/ MP1000 ROTATOR NOZZLES	12'	40	0.21-0.84	
27	HUNTER	PROS-12-PRS40-CV W/ MP2000 ROTATOR NOZZLES	16'	40	0.43-1.48	
28	HUNTER	PROS-12-PRS40-CV W/ MP3000 ROTATOR NOZZLES	25'	40	0.86-3.64	
29	HUNTER	PROS-12-PRS40-CV W/ MP-CORNER ROTATOR NOZZLES	14'	40	0.19-0.45	
30	HUNTER	PROS-12-PRS40-CV W/ MP-STRIP NOZZLES	5' x 30' / 5' x 15'	40	0.22-0.44	
31	HUNTER	PROS-12-PRS40-CV W/ MP800 SR ROTATOR NOZZLES	6'-12"	40	0.16-0.78	
32	HUNTER	PROS-12-PRS40-CV W/ MP815 ROTATOR NOZZLES	8'-16"	40	0.49-1.87	
33	HUNTER	18" ROOT ZONE WATERING SYSTEM RZWS-18-50-CV	-	40	0.50	
34	NIBCO	GATE VALVES 3" AND SMALLER SHALL BE NIBCO T-113-K.				
35	NIBCO	GATE VALVES 4" AND LARGER SHALL BE NIBCO F-619 FLANGED VALVE WITH SQUARE OPERATING NUT.				
36	HARCO	IRON, STAINLESS STEEL, BRONZE SHUT OFF VALVE. LATERAL ISOLATION AVAILABLE IN 2IN. WITH VARIABLE RISER. GASKET X GASKET. EPDM SEAL.				
37	RAIN BIRD	RAIN BIRD 44-RP 1IN. BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING NON-POTABLE PURPLE RUBBER COVER, AND 2" PICE BODY.				
38	SUPERIOR	BUCKNER-SUPERIOR 950 1IN., 1-1/2IN., 2IN., 2-1/2IN., AND 3IN. BRASS AUTOMATIC IRRIGATION ELECTRIC DIAPHRAGM VALVE WITH FORWARD FLOW DESIGN.				
39	SUPERIOR	SUPERIOR AVU 2" RED BRASS ANGLE MANUAL CONTROL VALVES WITH UNION.				
40	APCO	ARV 50A - AIR RELIEF VALVE				
41	EXISTING	EXISTING MASTER CONTROL VALVE				
42	EXISTING	EXISTING FLOW SENSOR				
43	EXISTING	EXISTING BACKFLOW ASSEMBLY				
44	HUNTER	IRRIGATION CONTROLLER - HUNTER ACC2. CONTRACTOR TO CONFIRM IN FIELD IF EXISTING ENCLOSURE SUITABLE FOR NEW CONTROLLER & COORDINATE WITH DISTRICT ON CONTROLLER SCHEDULING DURING CONSTRUCTION.				
45	EXISTING	EXISTING WATER METER				
46	EXISTING	EXISTING MAINLINE TO REMAIN AND BE PROTECTED. CONTRACTOR TO VERIFY SIZE AND APPROXIMATE LOCATION PRIOR TO CONSTRUCTION.				
47	LIMIT OF WORK	LATERAL LINE - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH. STANDARD NON-SIZED PIPE TO BE 3/2" DIA.				
48	MAIN LINE	MAIN LINE - SCHEDULE 40 PVC PIPE & RING-TITE FITTINGS AT 24" DEPTH. SIZE AS NOTED.				
49	SLEEVES	CLASS 200 PVC. SIZE TO BE TWICE THE SIZE OF TOTAL PIPE DIAMETERS WITHIN THE SLEEVE, OR AS NOTED, WITH 30" COVER.				
50	1	VALVE BOX LOCATIONS ARE DIAGRAMMATIC. VALVE BOXES TO BE PLACED BETWEEN INSIDE OF FENCE LINE AND TOP OF SLOPE.				
51	2	VALVE BOX LOCATIONS ARE DIAGRAMMATIC. PLACE VALVE BOXES IN WALK.				
52	3	VALVE BOX LOCATIONS ARE DIAGRAMMATIC. PLACE VALVE BOXES PLANTING AREA.				
53	4	MAIN LINE LOCATION IS DIAGRAMMATIC. PLACE IN PLANTING AREA WHERE POSSIBLE.				
54	5	ADJUST EXISTING IRRIGATION AS NEEDED TO PROVIDE COMPLETE HEAD TO HEAD COVERAGE.				
55	6	BURBLER HEAD AND LATERAL LINE LOCATIONS ARE DIAGRAMMATIC FOR CLARITY. PLACE HEADS AND LATERALS IN PLANTING BED PER DETAILS.				
56	7	2" MAIN LINE BETWEEN LAST REMOTE CONTROL VALVE AND QUICK COUPLER, TYP.				
57	P.O.C.	POINTS OF CONNECTION - TIE PROPOSED MAIN LINE TO EXISTING MAINLINE. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING SUPPLY LINE AND WATER PRESSURE. PROVIDE STATIC WATER PRESSURE RATING TO OWNER'S REPRESENTATIVE.				
58	1	CONTROL STATION NUMBER				
59	2	APPROX. GPM FLOW THROUGH VALVE				
60	3	CONTROL VALVE SIZE				

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SHEET TITLE  
**IRRIGATION PLAN - SOFTBALL AND PARKING**

PROJECT NAME  
**WEST CAMPUS HIGH SCHOOL BASEBALL & SOFTBALL IMPROVEMENTS**

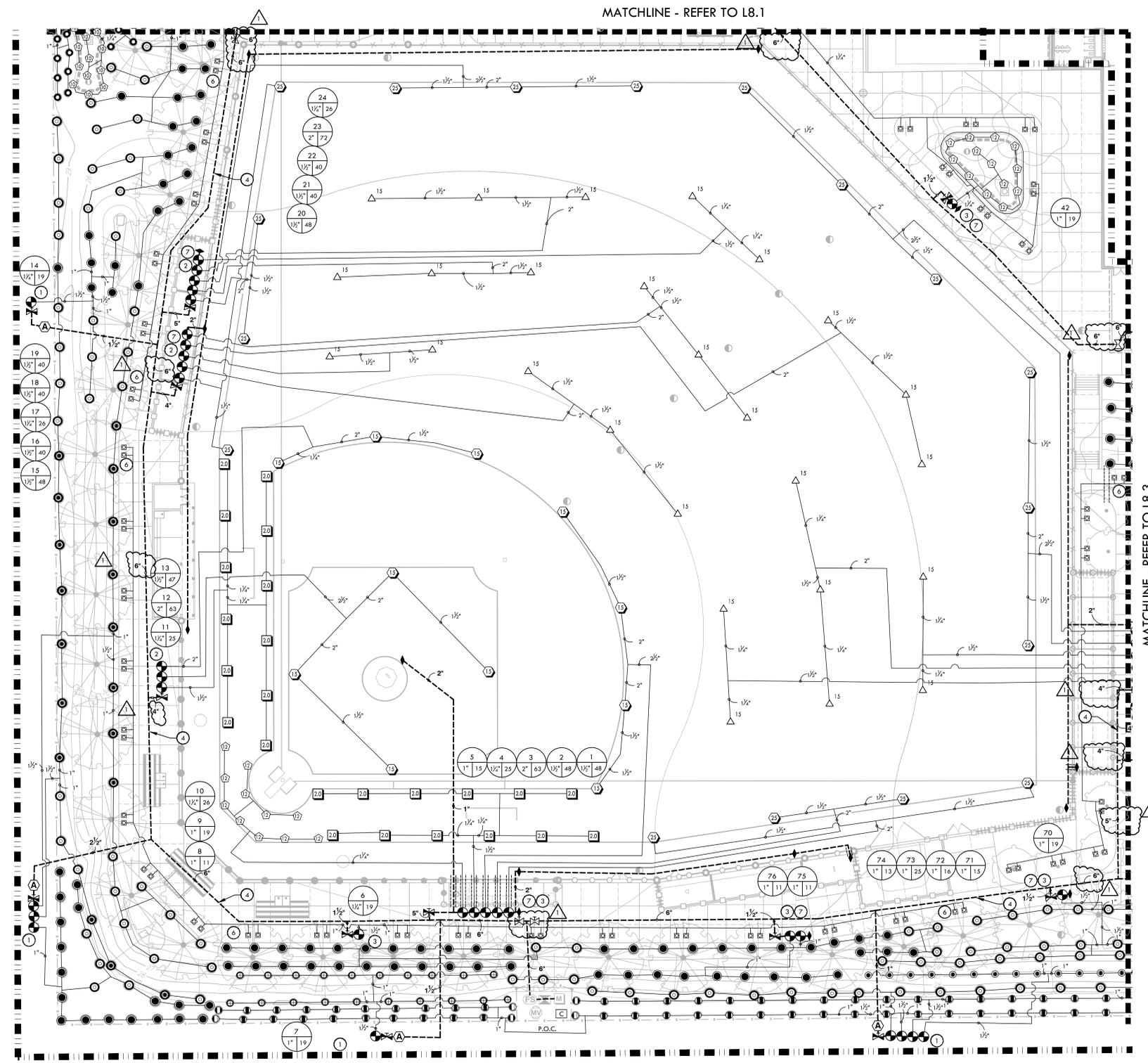
PROJECT ADDRESS  
**5022 58TH STREET SACRAMENTO, CA 95820**

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1	ADDENDUM 01	04/12/2024

DRAWN BY: RN  
 CHECKED BY: CS/MB  
 DATE ISSUED: 03/18/2024  
 SCALE: 1"=20'-0"  
 PROJ. NO.: 2309900

SHEET NO.: **L8.1**



### IRRIGATION NOTES

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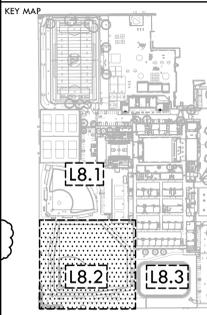


### IRRIGATION AND CONDUIT LEGEND

SYM.	MANUF.	MODEL NO. / DESCRIPTION	DSGN. RAD.	PSI	GPM	DTL REF.
15	HUNTER	I-40-06-SS-0N-15 DUAL OPPOSING NOZZLE	40'-50'	60	13.2	
16	HUNTER	I-40-06-SS-10 ADJUSTABLE SPRAY NOZZLE	50'	60	11.3	
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19	HUNTER	I-40-06-SS-25 ADJUSTABLE SPRAY NOZZLE	66'	60	23.9	
20	HUNTER	I-20-06-1A-SS-R 2.0 ADJUSTABLE SPRAY NOZZLE	24'	50	2.1	
21	HUNTER	I-20-06-SS-SR-R 3.0 ADJUSTABLE SPRAY NOZZLE	21'	50	3	
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24	HUNTER	PROS-12-PRS30-CV 10A ADJUSTABLE SHRUB SPRAY NOZZLE	10'	30	0.25-2.00	
25	HUNTER	PROS-12-PRS30-CV 12A ADJUSTABLE SHRUB SPRAY NOZZLE	12'	30	0.32-2.52	
26	HUNTER	PROS-12-PRS40-CV W/ MP1000 ROTATOR NOZZLES	12'	40	0.21-0.84	
27	HUNTER	PROS-12-PRS40-CV W/ MP2000 ROTATOR NOZZLES	16'	40	0.43-1.48	
28	HUNTER	PROS-12-PRS40-CV W/ MP3000 ROTATOR NOZZLES	25'	40	0.86-3.64	
29	HUNTER	PROS-12-PRS40-CV W/ MP-CORNER ROTATOR NOZZLES	14'	40	0.19-0.45	
30	HUNTER	PROS-12-PRS40-CV W/ MP-STRIP NOZZLES	5' x 30' / 5' x 15'	40	0.22-0.44	
31	HUNTER	PROS-12-PRS40-CV W/ MP800 SR ROTATOR NOZZLES	6'-12'	40	0.16-0.78	
32	HUNTER	PROS-12-PRS40-CV W/ MP815 ROTATOR NOZZLES	8'-16'	40	0.49-1.87	
33	HUNTER	18" ROOT ZONE WATERING SYSTEM RZWS-18-50-CV	-	40	0.50	
34	NIBCO	GATE VALVES 3" AND SMALLER SHALL BE NIBCO T-113-K.				
35	NIBCO	GATE VALVES 4" AND LARGER SHALL BE NIBCO F-619 FLANGED VALVE WITH SQUARE OPERATING NUT.				
36	HARCO	IRON, STAINLESS STEEL, BRONZE SHUT OFF VALVE. LATERAL ISOLATION AVAILABLE IN 2IN. WITH VARIABLE RISER. GASKET X GASKET. EPDM SEAL.				
37	RAIN BIRD	1IN. BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING NON-POTABLE PURPLE RUBBER COVER, AND 2" PICE BODY.				
38	SUPERIOR	BUCKNER-SUPERIOR 950 1IN., 1-1/2IN., 2IN., 2-1/2IN., AND 3IN. BRASS AUTOMATIC IRRIGATION ELECTRIC DIAPHRAGM VALVE WITH FORWARD FLOW DESIGN.				
39	SUPERIOR	SUPERIOR AVU 2" RED BRASS ANGLE MANUAL CONTROL VALVES WITH UNION.				
40	APCO	ARV 50A - AIR RELIEF VALVE				
41	MV	EXISTING MASTER CONTROL VALVE				
42	FS	EXISTING FLOW SENSOR				
43	MB	EXISTING BACKFLOW ASSEMBLY				
44	C	IRRIGATION CONTROLLER - HUNTER ACC2. CONTRACTOR TO CONFIRM IN FIELD IF EXISTING ENCLOSURE SUITABLE FOR NEW CONTROLLER & COORDINATE WITH DISTRICT ON CONTROLLER SCHEDULING DURING CONSTRUCTION.				
45	M	EXISTING WATER METER				
46		EXISTING MAINLINE - TO REMAIN AND BE PROTECTED. CONTRACTOR TO VERIFY SIZE AND APPROXIMATE LOCATION PRIOR TO CONSTRUCTION.				
47		LIMIT OF WORK				
48		LATERAL LINE - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH. STANDARD NON-SIZED PIPE TO BE 3/2" DIA.				
49		MAIN LINE - SCHEDULE 40 PVC PIPE & RING-TITE FITTINGS AT 24" DEPTH - SIZE AS NOTED.				
50		SLEEVES CLASS 200 PVC. SIZE TO BE TWICE THE SIZE OF TOTAL PIPE DIAMETERS WITHIN THE SLEEVE, OR AS NOTED, WITH 30" COVER.				
51		VALVE BOX LOCATIONS ARE DIAGRAMMATIC. VALVE BOXES TO BE PLACED BETWEEN INSIDE OF FENCE LINE AND TOP OF SLOPE.				
52		VALVE BOX LOCATIONS ARE DIAGRAMMATIC. PLACE VALVE BOXES IN WALK.				
53		VALVE BOX LOCATIONS ARE DIAGRAMMATIC. PLACE VALVE BOXES PLANTING AREA.				
54		MAIN LINE LOCATION IS DIAGRAMMATIC. PLACE IN PLANTING AREA WHERE POSSIBLE.				
55		ADJUST EXISTING IRRIGATION AS NEEDED TO PROVIDE COMPLETE HEAD TO HEAD COVERAGE.				
56		BURBLER HEAD AND LATERAL LINE LOCATIONS ARE DIAGRAMMATIC FOR CLARITY. PLACE HEADS AND LATERALS IN PLANTING BED PER DETAILS.				
57		2" MAIN LINE BETWEEN LAST REMOTE CONTROL VALVE AND QUICK COUPLER, TYP.				
58	P.O.C.	POINTS OF CONNECTION - TIE PROPOSED MAIN LINE TO EXISTING MAINLINE. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING SUPPLY LINE AND WATER PRESSURE. PROVIDE STATIC WATER PRESSURE RATING TO OWNER'S REPRESENTATIVE.				
59		CONTROLLER STATION NUMBER				
60		APPROX. GPM FLOW THROUGH VALVE				
61		CONTROL VALVE SIZE				



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### IRRIGATION PLAN - BASEBALL

### WEST CAMPUS HIGH SCHOOL BASEBALL & SOFTBALL IMPROVEMENTS

PROJECT ADDRESS  
5022 58TH STREET  
SACRAMENTO, CA 95820

SUBMITTAL	DATE
50% SUBMITTAL	10/20/23
100% DSA SUBMITTAL	12/15/23
BACKCHECK SUBMITTAL	03/18/24

NO.	REVISIONS	DATE
1	ADDENDUM 01	04/12/2024

DRAWN BY: RN  
CHECKED BY: CS/MB  
DATE ISSUED: 03/18/2024  
SCALE: 1"=20'-0"

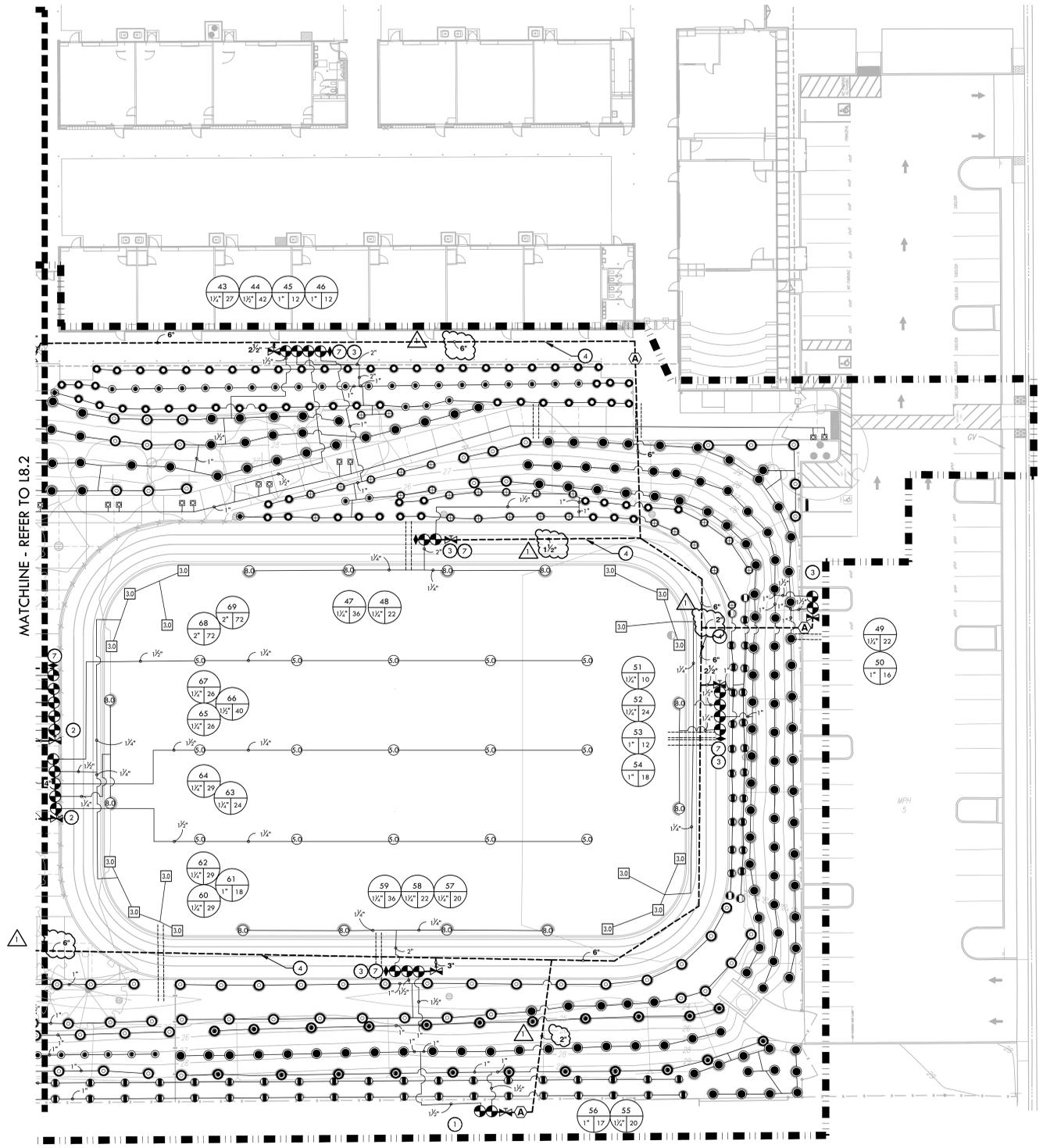
PROJ. NO.: 2309900  
SHEET NO.: L8.2

### IRRIGATION PLAN - BASEBALL

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DRAWING NAME: Y:\Projects-FO\2023\2309900 - west campus ha\CAD\_IRR.dwg  
 PLOT DATE: 04-11-24 PLOTTED BY: station50



### IRRIGATION NOTES

- THE SYSTEM IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF 325 GPM WITH A MAXIMUM 80 STATIC PSI AT THE IRRIGATION BOOSTER PUMP. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO BEGINNING WORK. CONTACT OWNER IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAY.
- ALL WORK SHALL CONFORM TO LOCAL AND STATE CODES AND ORDINANCES. ALL IRRIGATION WORK SHALL CONFORM TO THE LANDSCAPE SECTION OF THE STANDARD PLAN DETAILS FOR PUBLIC WORKS CONSTRUCTION. PROJECT AND DETAILS AND SPECIFICATIONS SHALL TAKE PRECEDENCE OVER STANDARD PLAN DETAILS.
- ALL PLASTIC FITTINGS SHALL BE A MINIMUM OF 18" APART TO FACILITATE REMOVAL AND REPLACEMENT OF INDIVIDUAL FITTINGS. TRENCHING DEPTHS OF POTABLE WATER MAIN SHALL BE 2'-4". ALL MAINS, LATERALS AND CONTROL WIRES SHALL BE INSTALLED IN SCHEDULE 40 PURPLE P.V.C. SLEEVES (OF APPROPRIATE SIZE) UNDER ALL A.C. AND P.C.C. PAVEMENT.
- IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, QUICK COUPLERS, ETC. ARE SHOWN OUTSIDE FIELD, OR LIMIT OF WORK, INTENT IS FOR PIPING, VALVES, ETC., TO BE INSTALLED WITHIN FIELD AREAS OF PROPERTY. INDICATE EXACT LOCATIONS OF IRRIGATION EQUIPMENT ON RECORD DRAWINGS.
- CONTRACTOR SHALL ADJUST IRRIGATION HEADS FOR OPTIMUM COVERAGE WHILE REDUCING OVER SPRAY ONTO WALKWAYS AND ADJACENT STRUCTURES. VALVES SHALL BE ADJUSTED TO AVOID MISTING AS APPLICABLE. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO HEAD LOCATIONS IN FIELD AS NECESSARY ONLY WITH THE APPROVAL OF THE CITY ENGINEER.
- CONTRACTOR SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

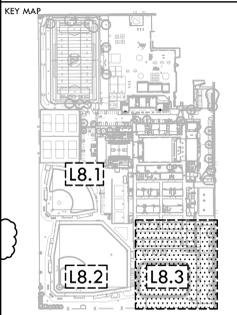
### IRRIGATION AND CONDUIT LEGEND

SYM.	MANUF.	MODEL NO. / DESCRIPTION	DSGN. RAD.	PSI	GPM	DYL. REF.
15	HUNTER	I-40-06-SS-ON-15 DUAL OPPOSING NOZZLE	40'-50'	60	13.2	
16	HUNTER	I-40-06-SS-10 ADJUSTABLE SPRAY NOZZLE	50'	60	11.3	
17	HUNTER	I-40-06-SS-15 ADJUSTABLE SPRAY NOZZLE	55'	60	15.7	
18	HUNTER	I-40-06-SS-23 ADJUSTABLE SPRAY NOZZLE	62'	60	21.3	
19	HUNTER	I-40-06-SS-25 ADJUSTABLE SPRAY NOZZLE	66'	60	23.9	
20	HUNTER	I-20-06-1A-SS-R 2.0 ADJUSTABLE SPRAY NOZZLE	24'	50	2.1	
21	HUNTER	I-20-06-SS-SR-R 3.0 ADJUSTABLE SPRAY NOZZLE	21'	50	3	
22	HUNTER	I-20-06-SS-R 5.0 ADJUSTABLE SPRAY NOZZLE	36'	55	5.7	
23	HUNTER	I-20-06-SS-R 8.0 ADJUSTABLE SPRAY NOZZLE	39'	55	9	
24	HUNTER	PROS-12-PRS30-CV 10A ADJUSTABLE SHRUB SPRAY NOZZLE	10'	30	0.25-2.00	
25	HUNTER	PROS-12-PRS30-CV 12A ADJUSTABLE SHRUB SPRAY NOZZLE	12'	30	0.32-2.52	
26	HUNTER	PROS-12-PRS40-CV W/ MP1000 ROTATOR NOZZLES	12'	40	0.21-0.84	
27	HUNTER	PROS-12-PRS40-CV W/ MP2000 ROTATOR NOZZLES	16'	40	0.43-1.48	
28	HUNTER	PROS-12-PRS40-CV W/ MP3000 ROTATOR NOZZLES	25'	40	0.86-3.64	
29	HUNTER	PROS-12-PRS40-CV W/ MP-CORNER ROTATOR NOZZLES	14'	40	0.19-0.45	
30	HUNTER	PROS-12-PRS40-CV W/ MP-STRIP NOZZLES	5' x 30' / 5' x 15'	40	0.22-0.44	
31	HUNTER	PROS-12-PRS40-CV W/ MP800 SR ROTATOR NOZZLES	6'-12'	40	0.16-0.78	
32	HUNTER	PROS-12-PRS40-CV W/ MP815 ROTATOR NOZZLES	8'-16'	40	0.49-1.87	
33	HUNTER	18" ROOT ZONE WATERING SYSTEM RZWS-18-50-CV	-	40	0.50	
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35	NIBCO	GATE VALVES 4" AND LARGER SHALL BE NIBCO F-619 FLANGED VALVE WITH SQUARE OPERATING NUT.				
36	HARCO	HARCO GASKET X GASKET IRON, STAINLESS STEEL, BRONZE SHUT OFF VALVE. LATERAL ISOLATION AVAILABLE IN 2IN. WITH VARIABLE RISER. GASKET X GASKET. EPDM SEAL.				
37	RAIN BIRD	RAIN BIRD 44-RP 1" 1IN. BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING NON-POTABLE PURPLE RUBBER COVER, AND 2-PIECE BODY.				
38	SUPERIOR	BUCKNER-SUPERIOR 950 1IN., 1-1/2IN., 2IN., 2-1/2IN., AND 3IN. BRASS AUTOMATIC IRRIGATION ELECTRIC DIAPHRAGM VALVE WITH FORWARD FLOW DESIGN.				
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41	EXISTING	EXISTING MASTER CONTROL VALVE				
42	EXISTING	EXISTING FLOW SENSOR				
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44	HUNTER	IRRIGATION CONTROLLER - HUNTER ACC2. CONTRACTOR TO CONFIRM IN FIELD IF EXISTING ENCLOSURE SUITABLE FOR NEW CONTROLLER & COORDINATE WITH DISTRICT ON CONTROLLER SCHEDULING DURING CONSTRUCTION.				
45	EXISTING	EXISTING WATER METER				
46	EXISTING	EXISTING MAINLINE TO REMAIN AND BE PROTECTED. CONTRACTOR TO VERIFY SIZE AND APPROXIMATE LOCATION PRIOR TO CONSTRUCTION.				
47	LIMIT OF WORK	LATERAL LINE - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH. STANDARD NON-SIZED PIPE TO BE 3/2" DIA.				
48	MAIN LINE	MAIN LINE - SCHEDULE 40 PVC PIPE & RING-TITE FITTINGS AT 24" DEPTH. SIZE AS NOTED.				
49	SLEEVES	CLASS 200 PVC. SIZE TO BE TWICE THE SIZE OF TOTAL PIPE DIAMETERS WITHIN THE SLEEVE, OR AS NOTED, WITH 30" COVER.				
50	1	VALVE BOX LOCATIONS ARE DIAGRAMMATIC. VALVE BOXES TO BE PLACED BETWEEN INSIDE OF FENCE LINE AND TOP OF SLOPE.				
51	2	VALVE BOX LOCATIONS ARE DIAGRAMMATIC. PLACE VALVE BOXES IN WALK.				
52	3	VALVE BOX LOCATIONS ARE DIAGRAMMATIC. PLACE VALVE BOXES PLANTING AREA.				
53	4	MAIN LINE LOCATION IS DIAGRAMMATIC. PLACE IN PLANTING AREA WHERE POSSIBLE.				
54	5	ADJUST EXISTING IRRIGATION AS NEEDED TO PROVIDE COMPLETE HEAD TO HEAD COVERAGE.				
55	6	BURBLER HEAD AND LATERAL LINE LOCATIONS ARE DIAGRAMMATIC FOR CLARITY. PLACE HEADS AND LATERALS IN PLANTING BED PER DETAILS.				
56	7	2" MAIN LINE BETWEEN LAST REMOTE CONTROL VALVE AND QUICK COUPLER, TYP.				
57	P.O.C.	POINTS OF CONNECTION - TIE PROPOSED MAIN LINE TO EXISTING MAINLINE. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING SUPPLY LINE AND WATER PRESSURE. PROVIDE STATIC WATER PRESSURE RATING TO OWNER'S REPRESENTATIVE.				
58	1	CONTROLLER STATION NUMBER				
59	2	APPROX. GPM FLOW THROUGH VALVE				
60	3	CONTROL VALVE SIZE				

**VERDE DESIGN**  
 LANDSCAPE ARCHITECTURE  
 CIVIL ENGINEERING  
 SPORT PLANNING & DESIGN  
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 Tel: 916.413.6554  
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### IRRIGATION PLAN - TRACK

**PROJECT NAME**  
 WEST CAMPUS  
 HIGH SCHOOL  
 BASEBALL & SOFTBALL  
 IMPROVEMENTS

**PROJECT ADDRESS**  
 5022 58TH STREET  
 SACRAMENTO, CA 95820

SUBMITTAL	DATE
50% SUBMITTAL	10/20/23
100% DSA SUBMITTAL	12/15/23
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### IRRIGATION PLAN - TRACK

SHEET NO. L8.3