



Business Services

Contracts Office

5735 47th Avenue • Sacramento, CA 95824

(916) 643-2464

Rose Ramos, Chief Business Officer

Jessica Sulli, Contract Specialist

ADDENDUM NO. 2

Date: March 23, 2020

Issued by: Sacramento City Unified School District

Project: 0495-417, Will C. Wood and Abraham Lincoln Irrigation Improvements

You are hereby notified of the following changes, clarifications, or modifications to the original Contract Documents, Specifications, and Drawings. This Addendum shall supersede the original project documents, and shall take precedence over anything to the contrary therein. All Addenda shall be acknowledged in the Bid Form. Failure to do so may result in disqualification of the bid. All other conditions remain unchanged.

A. BID SUBMISSION

1. **Because the District Office is currently closed to the public, bids for this project must be submitted electronically through e-Builder. Bid results will be posted no later than 2:30pm on 3/30/20.**

B. RESPONSES TO REQUESTS FOR INFORMATION

1. See attached.

C. DRAWINGS

1. CVR
 - a. Deleted Project Note #7
2. L1.1A, L1.2A, L1.4A
 - a. Added additional sawcut locations for new mainline/laterals shown.
3. L2.1A, L2.2A
 - a. Added station D17 and irrigation heads adjacent to the building.
 - b. Added station D18 and irrigation heads adjacent to the building
 - c. Updated station D8 and connected planter heads.
4. L1.2B
 - a. Added additional sawcut locations for new mainline/laterals shown.
 - b. Added note to excavate utility yard pad.



5. L2.2B
 - a. Added note to re-use existing pipe as sleeve for station 27.
 - b. Relocated station 28 valve and rerouted lateral line.
6. L3.1
 - a. Revised detail 2.
7. L3.2
 - a. Revised detail 2 to include rebar and reference detail L3.1-2.

END OF ADDENDUM NO. 2

#	Date Asked	Subject	Question	Response
1	3/11/2020	Lincoln and Wood Bid questions	Can you please provide the irrigation and utility as builts for both sites so we can see what is existing?	As-builts do not exist for either site.
2	3/11/2020	Lincoln and Wood Bid questions	On sheet L1.1A under Pre-construction sprinkler irrigation notes it says to contact Troy Mietz to discuss operating the existing system and making modifications to the existing system to accomodate for the new construction. Can we get a list of what these modifications will be to account for them in our bid?	Existing irrigation system to be demo'd as described on the plans. The statement is intended to make sure that project is walked with the foreman and other parties before demo happens to ensure we are on the same page and something doesn't accidently get removed that wasn't supposed to.
3	3/11/2020	Lincoln and Wood Bid questions	Also on sheet L1.1A under irrigation demolition legend it says "Note: Contractor to irrigate all trees by hand during construction process." Where possible would it be acceptable to set up temporary irrigation systems to irrigate the trees during the construction process in lieu of hand watering them?	A temporary irrigation system would be acceptable
4	3/11/2020	Lincoln and Wood Bid questions	There are also areas where it shows new pipe being installed under hardscape that doesn't show saw cuts on the demolition plan. Should we assume there are existing sleeves in these areas that can be re-used or should we figure on additional saw cuts and patches? If we are to assume there are existing sleeves and later in the field it is determined that existing sleeves cannot be re-used will contract change orders be issued to cover additional costs of saw cutting and installing new sleeves?	Plan will be revised in Addendum #1 to show that all piping under existing hardscape will be sawcut and patched. Boring will be an acceptable alternative. Any existing utilities hit will be the contractors responsibility to repair at no cost to the owner.
5	3/10/2020	Will C. Wood & Lincoln School Site	Confirm a geotechnical report will not form part of the bid documents for this contract, if it is, please provide to all bidders.	There is no geotech report for this project.
6	3/10/2020	Will C. Wood & Lincoln School Site	Who will be responsible to connect line voltage power to proposed irrigation booster pump and new irrigation controller/s.	An electrical contractor will be required for the work shown on the electrical sheets.
7	3/10/2020	Will C. Wood & Lincoln School Site	Advise if both sites will utilize domestic water for proposed irrigation improvements and no recycled or reclaimed water identification will be required for this contract.	Both sites are domestic water.
8	3/10/2020	Will C. Wood & Lincoln School Site	Confirm if Leemco LMV Series mainline isolation valves will be acceptable as a manifold at each cluster of remote control valves or will each control valve require a separate isolation valve and ductile iron tee.	Each valve to have it's own isolation valve and ductile iron tee as per plan.
9	3/10/2020	Will C. Wood & Lincoln School Site	Refer to General Note #11, What permits are applicable to this contract? Will these be paid for by the district or the bidding contractor?	According to the General Conditions provided on the District's website and in e-Builder, Contractor would be responsible for paying for any permits, however, the District does not anticipate that any permits will be required for this project.

10	3/10/2020	Will C. Wood & Lincoln School Site	Refer to General Note #10 on cover sheet, confirm temporary fencing will not be required for either site or if required, provide exhibit delineating requested temporary fence locations.	Temporary fencing will be necessary on both project to protect the public from open trenches and other construction processes. Once trenches have been backfilled and work has been completed in a given area the temporary fencing may be removed. How the contractor progresses through the site will dictate when and where temporary fencing will be needed so an exhibit will not be provided.
11	3/10/2020	Will C. Wood & Lincoln School Site	Refer to General Note #7 on cover sheet, please advise how this will be managed or if this will apply to this contract; the proposed scope does not align with this requirement.	That is correct, grading the site is not included in the scope of work. General Note #7 will be removed from the plans in Addendum #1.

WILL C. WOOD MIDDLE SCHOOL, AND ABRAHAM LINCOLN ELEMENTARY SCHOOL IRRIGATION IMPROVEMENTS

SACRAMENTO, CALIFORNIA

OWNER:

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
5735 47th AVENUE, SACRAMENTO, CA 95824
ph: (916) 643-7200

LANDSCAPE ARCHITECT
MTW GROUP
PETER LARIMER
10411 OLD PLACERVILLE RD, SUITE 205
SACRAMENTO, CA 95827
916-369-3990

ELECTRICAL ENGINEER
EDGE ELECTRICAL CONSULTING
DEAN YOMOGIDA
431 30TH STREET
SACRAMENTO, CA 95816
916-256-2460

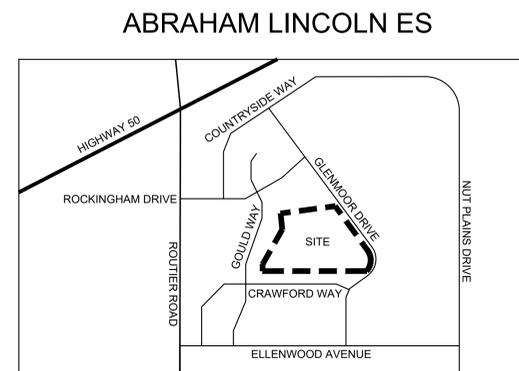
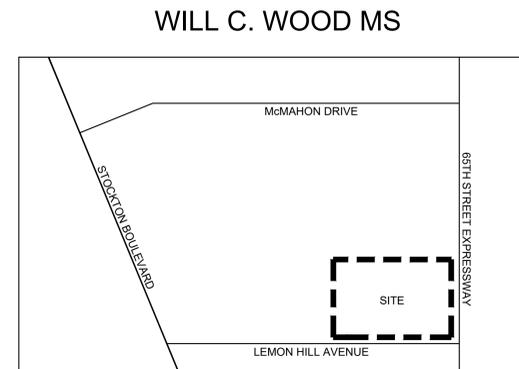
PROJECT NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, AND MAINTAINING TEMPORARY SIGNS, BRIDGES, BARRICADES, FLAGMEN, AND OTHER FACILITIES TO ADEQUATELY SAFEGUARD THE GENERAL PUBLIC AND WORK, AND TO PROVIDE FOR THE PROPER ROUTING OF VEHICULAR AND PEDESTRIAN TRAFFIC. CONSTRUCTION OPERATIONS SHALL COMPLY WITH THE WORK AREA AND TRAFFIC CONTROL HANDBOOK DATED 2009.
2. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES AND FOR THE PROTECTION OF AND REPAIR OF DAMAGE TO THEM. CONTACT UNDERGROUND SERVICE ALERT 1-800-227-2600, TWO WORKING DAYS BEFORE WORK IS TO BEGIN.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS OR MARKERS DURING CONSTRUCTION.
4. IF UNUSUAL AMOUNTS OF BONE, STONE OR ARTIFACTS ARE UNCOVERED, WORK WITHIN 50 METERS OF THE AREA SHALL CEASE IMMEDIATELY AND A QUALIFIED ARCHAEOLOGIST SHALL BE CONSULTED TO DEVELOP, IF NECESSARY, MITIGATION MEASURES TO REDUCE ANY ARCHAEOLOGICAL IMPACT TO A LESS THAN SIGNIFICANT EFFECT BEFORE CONSTRUCTION RESUMES IN THE AREA.
5. PRIOR TO PLACING PAVEMENT, THE CONTRACTOR SHALL ENSURE THAT ALL REQUIRED UNDERGROUND UTILITIES AND APPURTENANCES ARE IN PLACE, INCLUDING BUT NOT LIMITED TO: SANITARY SEWER, STORM DRAIN, ELECTRIC, AND IRRIGATION SLEEVES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL SITE WORK AND SHALL ENSURE THAT THERE IS ADEQUATE DRAINAGE AT THE COMPLETION OF LANDSCAPING TO PREVENT ANY PONDING WATER ON THE FINISHED SITE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE TO GRADE THE SITE AS INDICATED ON THE BID DOCUMENTS. IF THERE IS NOT ADEQUATE SOILS TO COMPLETE THE GRADING OPERATIONS, THE CONTRACTOR WILL PROVIDE ADDITIONAL SOILS TO COMPLETE THE GRADING AS PER THE DOCUMENTS. IF THERE IS A SURPLUS OF SOILS ON SITE AFTER GRADES HAVE BEEN ESTABLISHED, THE SURPLUS SOIL WILL BE REMOVED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. NO ADDITIONAL MONIES WILL BE PAID FOR EXPORTING OR IMPORTING SOIL REQUIRED TO COMPLETE THE GRADING.
8. THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE DRAWINGS WERE OBTAINED FROM OTHER SOURCES. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENTS, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. MTW GROUP ASSUMES NO RESPONSIBILITY FOR COMPLETENESS OR FOR DELINEATION OR ACTUAL LOCATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION OPERATIONS.
9. ALL DEWATERING PROCEDURES SHALL PROPERLY ADDRESS ALL ISSUES AND SHALL NOT ALLOW ANY ILLICIT DISCHARGE. (REFER TO CALTRANS, FIELD GUIDE TO CONSTRUCTION SITE DEWATERING FOR DEFINITION OF ILLICIT DISCHARGE)
10. THE CONTRACTOR SHALL INSTALL AND MAINTAIN A 6'-0" HIGH TEMPORARY THE FENCE WILL REMAIN IN PLACE UNTIL THE PROJECT IS ACCEPTED.
11. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL APPLICABLE PERMITS AND FEES REQUIRED TO COMPLETE THE WORK.
12. THE CONTRACTOR SHALL REQUEST A PRE-CONSTRUCTION MEETING WITH SACRAMENTO CITY UNIFIED SCHOOL DISTRICT GROUNDS DEPARTMENT AND ITS REPRESENTATIVES WITHIN SEVEN DAYS OF RECEIVING "NOTICE TO PROCEED" NO WORK WILL BE PERMITTED ON THE SITE UNTIL THE PRE-CONSTRUCTION MEETING HAS BEEN COMPLETED.
13. ALL EXISTING LANDSCAPE, UTILITIES, STRUCTURES, AND OTHER SITE IMPROVEMENTS SHALL BE PROTECTED. ANY DAMAGE INCURRED SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER.

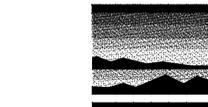
INDEX OF DRAWINGS

NUM	CVR	COVERSHEET
1	L1.1A	WILL C WOOD MS DEMOLITION PLAN
2	L1.2A	WILL C WOOD MS DEMOLITION PLAN
3	L1.3A	WILL C WOOD MS DEMOLITION PLAN
4	L1.4A	WILL C WOOD MS DEMOLITION PLAN
5	L2.1A	WILL C WOOD MS LANDSCAPE IRRIGATION PLAN
6	L2.2A	WILL C WOOD MS LANDSCAPE IRRIGATION PLAN
7	L2.3A	WILL C WOOD MS LANDSCAPE IRRIGATION PLAN
8	L2.4A	WILL C WOOD MS LANDSCAPE IRRIGATION PLAN
9	L1.1B	ABRAHAM LINCOLN ES DEMOLITION PLAN
10	L1.2B	ABRAHAM LINCOLN ES DEMOLITION PLAN
11	L2.1B	ABRAHAM LINCOLN ES LANDSCAPE IRRIGATION PLAN
12	L2.2B	ABRAHAM LINCOLN ES LANDSCAPE IRRIGATION PLAN
13	L3.1	LANDSCAPE IRRIGATION AND CONSTRUCTION DETAILS
14	L3.2	LANDSCAPE IRRIGATION DETAILS
15	E0.1	ABBREVIATIONS, SYMBOLS, SCHEDULE & SHEET INDEX
16	E1.1	ABRAHAM LINCOLN ES - OVERALL & PARTIAL ELECTRICAL SITE PLAN
17	E2.1	ELECTRICAL DETAILS

VICINITY MAP



NOT TO SCALE



MTW group
LANDSCAPE ARCHITECTURE
AND PLANNING
2707 K Street, Suite 201
Sacramento, CA 95816
916-369-3990



Peter D. Larimer C-5284

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CONSULTANTS

REVISIONS

NO.	DESCRIPTION	DATE	REV'D
1	ADDENDUM #1	3/20/20	SL

INITIAL BOX

NO.	DWG BY	DATE	REVIEWED

WILL C. WOOD MIDDLE SCHOOL
AND ABRAHAM LINCOLN ELEMENTARY SCHOOL
IRRIGATION IMPROVEMENTS
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

WILL C. WOOD MS
6201 LEMON HILL AVE.
SACRAMENTO, CA 95824

ABRAHAM LINCOLN ES
3324 GLEENMOOR DRIVE
SACRAMENTO, CA 95827

DATE 3/11/20

JOB NO. 19-57

SHEET TITLE

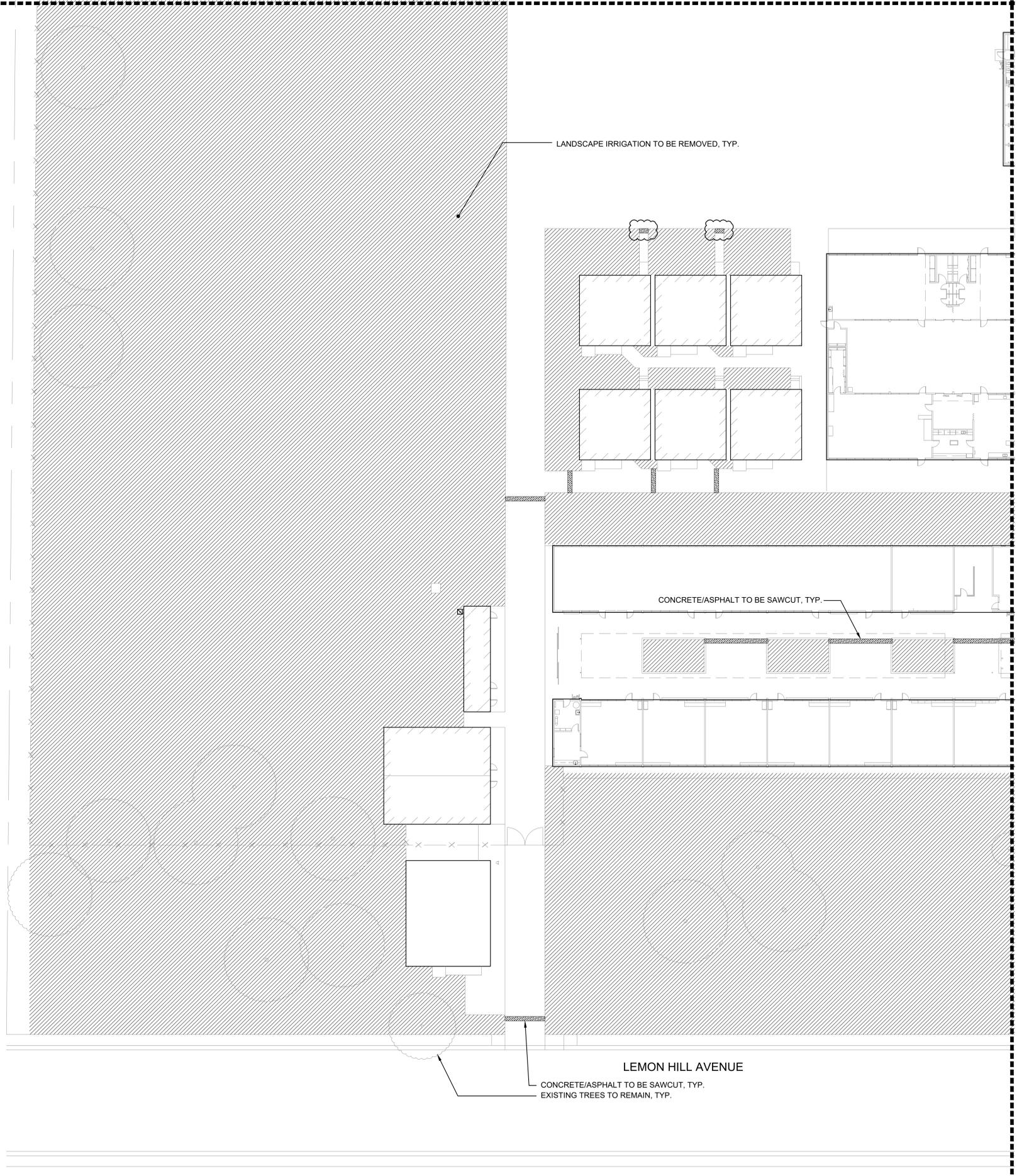
COVERSHEET

SHEET NO.

CVR

SHEET CVR OF 17 TOTAL

MATCH LINE, SEE SHEET L1.4A VIEW ONE



KEY	IRRIGATION DEMOLITION LEGEND
	EXISTING TREE TO REMAIN
	LIMITS OF LANDSCAPE IRRIGATION TO BE REMOVED SPRINKLER HEADS TO BE REMOVED AND LATERAL LINES TO BE ABANDONED IN PLACE OR REMOVED AS NEEDED FOR WORK. ALL LANDSCAPE PLANTING TO REMAIN. CONTRACTOR TO REPAIR LANDSCAPE DAMAGED DUE TO CONSTRUCTION.
	EXISTING BOOSTER PUMP TO REMAIN
	EXISTING BACKFLOW PREVENTION DEVICE TO BE REMOVED
	EXISTING BACKFLOW PREVENTION DEVICE TO REMAIN
	EXISTING AUTOMATIC CONTROL VALVE TO REMAIN
	CONCRETE/ASPHALT TO BE SAWCUT ONCE NEW IRRIGATION LINES ARE INSTALLED, COMPACT BACKFILL TO 95% PLACE MINIMUM 4" BASE AGGREGATE PRIOR TO REPLACEMENT OF APPROPRIATE PAVING MATERIAL TO MATCH WHAT WAS REMOVED.
	NOTE: CONTRACTOR TO IRRIGATE ALL TREES BY HAND DURING CONSTRUCTION PROCESS

PRE-CONSTRUCTION SPRINKLER IRRIGATION NOTES

- PRIOR TO START OF CONSTRUCTION CONTRACTOR REQUIRED TO CONTACT:
NAME, TITLE: TROY MIETZ
PHONE NUMBER: 916-741-1034
TO SET UP A MEETING ON SITE TO OPERATE THE EXISTING SPRINKLER IRRIGATION SYSTEM AND DISCUSS THE MODIFICATIONS THAT ARE TO BE MADE TO THE EXISTING SYSTEM TO ACCOMMODATE FOR THE NEW CONSTRUCTION.
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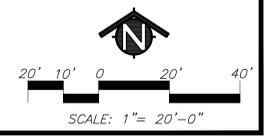
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WILL C. WOOD MS
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DATE 3/11/20
JOB NO. 19-57
SHEET TITLE
**WILL C WOOD MS
DEMOLITION PLAN**

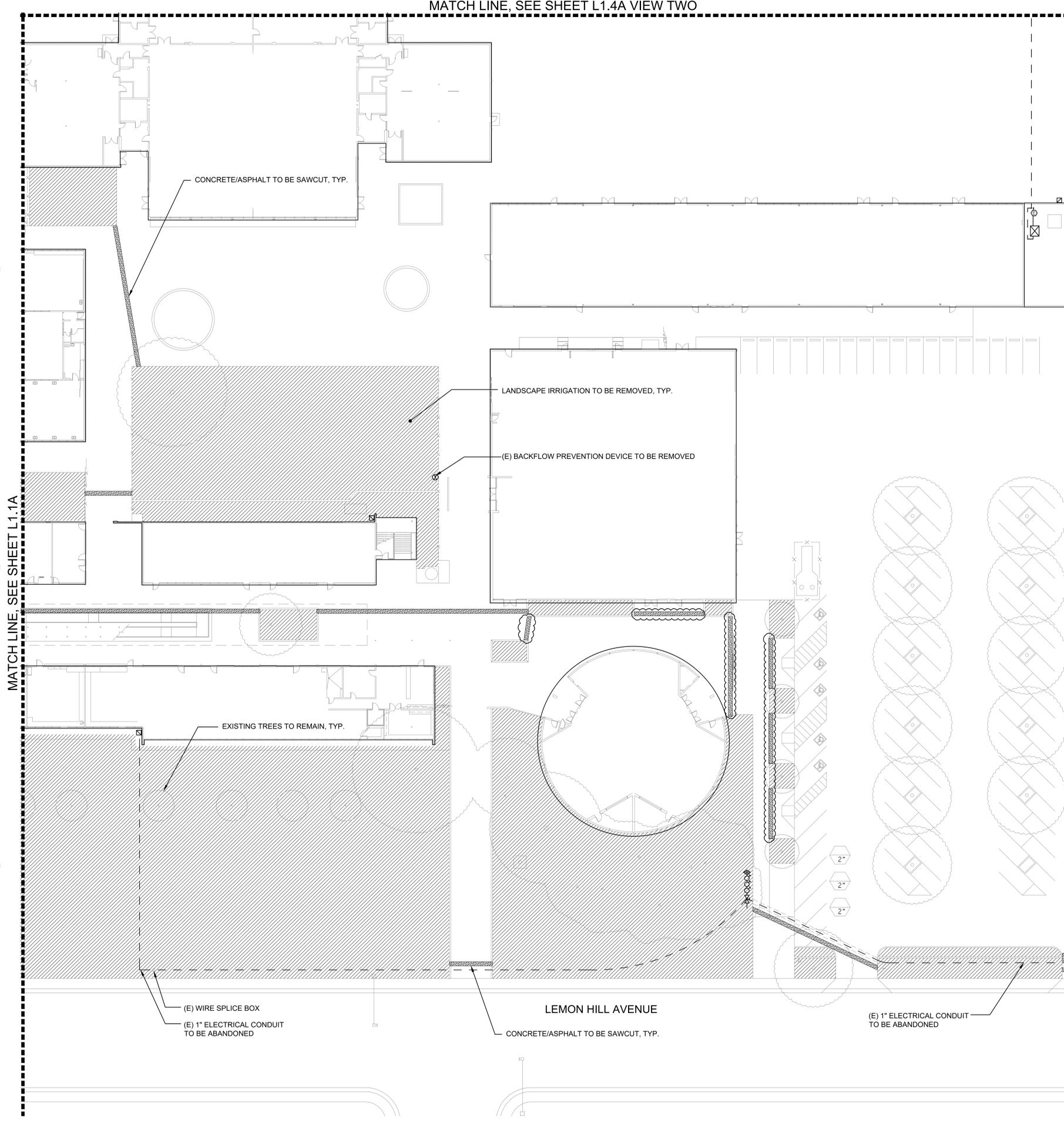
SHEET NO.
L1.1A
SHEET 1 OF 17 TOTAL



MATCH LINE, SEE SHEET L1.4A VIEW TWO

MATCH LINE, SEE SHEET L1.1A

MATCH LINE, SEE SHEET L1.3A



KEY

- EXISTING TREE TO REMAIN
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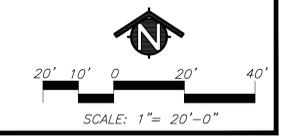
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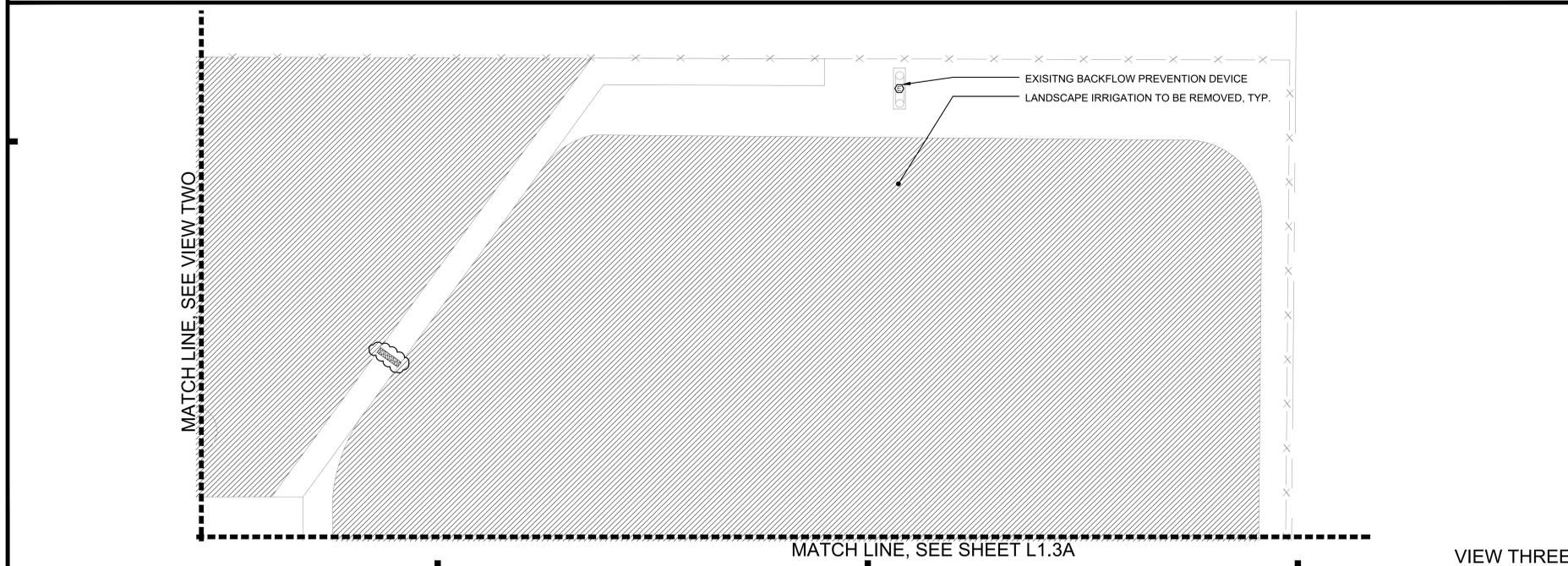
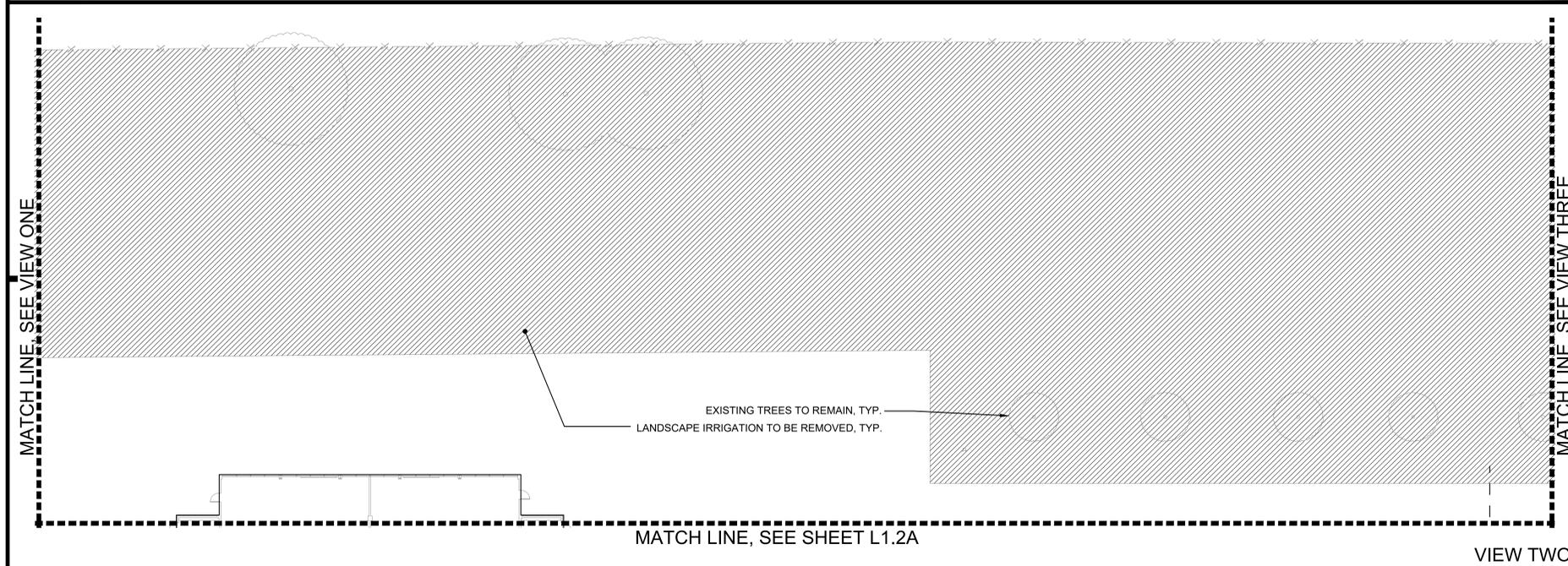
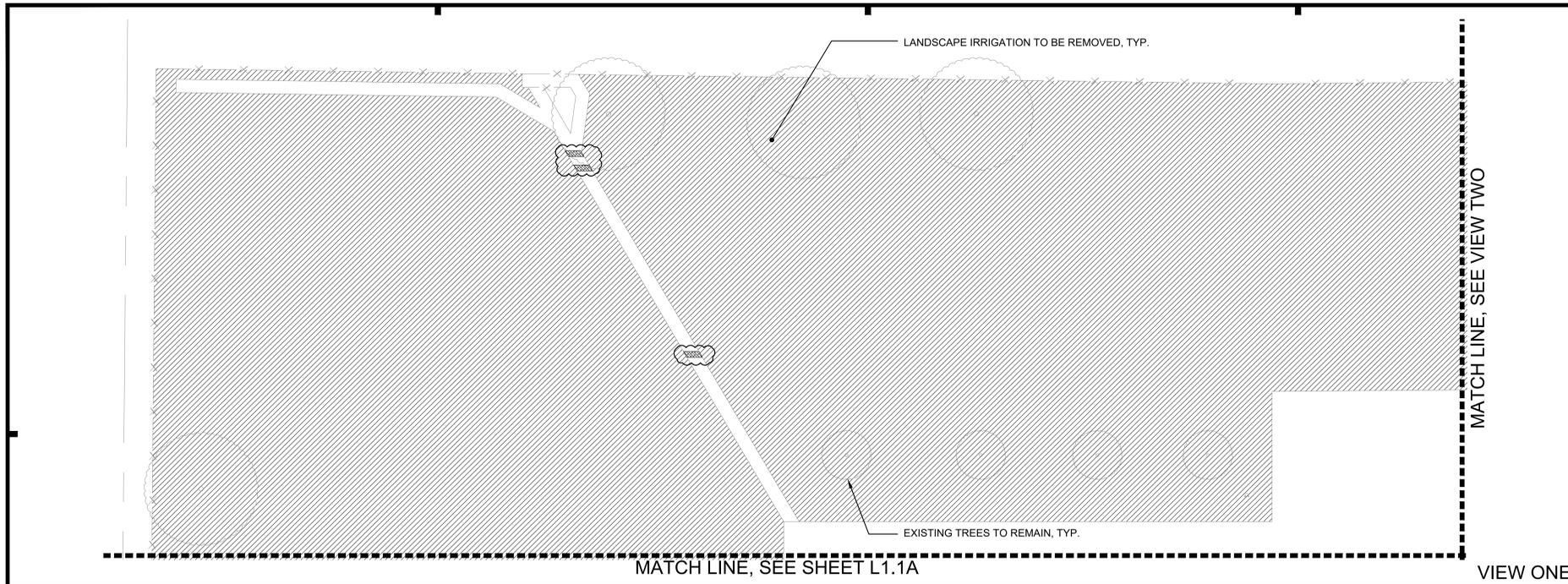
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DATE 3/11/20
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SHEET TITLE
**WILL C WOOD MS
DEMOLITION PLAN**

SHEET NO.
L1.2A
SHEET 2 OF 17 TOTAL





KEY	IRRIGATION DEMOLITION LEGEND
	EXISTING TREE TO REMAIN
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SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

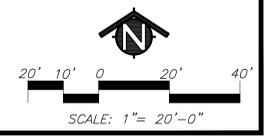
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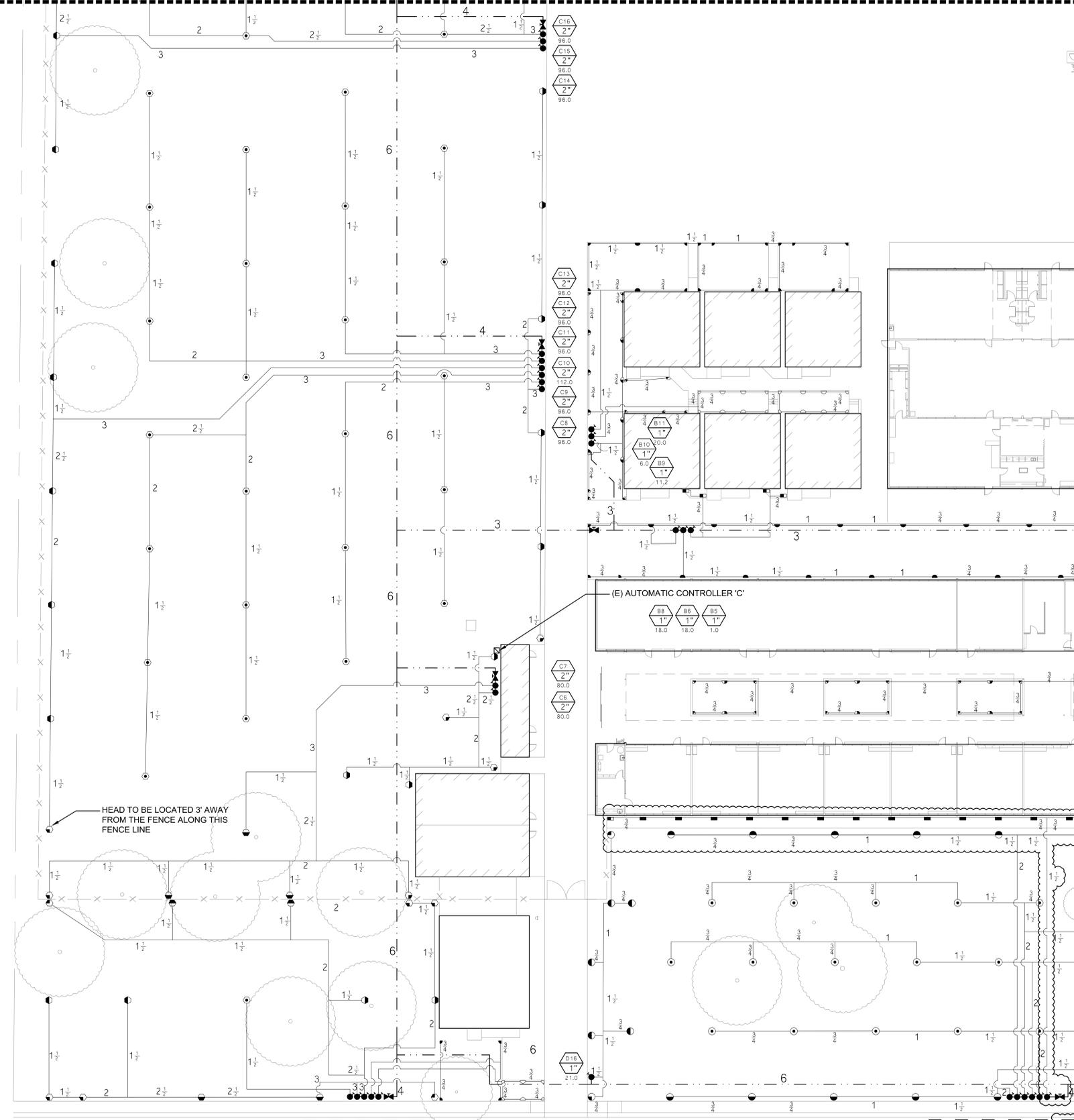
DATE 3/11/20
JOB NO. 19-57

SHEET TITLE
WILL C WOOD MS DEMOLITION PLAN

SHEET NO.
L1.4A
SHEET 4 OF 17 TOTAL



MATCH LINE, SEE SHEET L2.4A VIEW ONE



MATCH LINE, SEE SHEET L2.2A

LEMON HILL AVENUE

KEY	SPRINKLER IRRIGATION LEGEND
	EXISTING AUTOMATIC CONTROLLER: AUTOMATIC CONTROLLERS A,B,C: HUNTER CONTROL SYSTEM - 12 STATION CONVENTIONAL CONTROLLER AUTOMATIC CONTROLLER D: HUNTER CONTROL SYSTEM - 18 STATION CONVENTIONAL CONTROLLER CONTRACTOR TO PURCHASE AND INSTALL EXPANSION MODULES (A2M-600) TO ADD STATIONS FOR ADDITIONAL VALVES.
	POINT OF CONNECTION: IRRIGATION SYSTEM OPERATING WATER PRESSURE: 80 PSI MAXIMUM FLOW IS 190 GPM CONTRACTOR SHALL LOCATE EXISTING IRRIGATION MAINLINE CONNECT AT THIS POINT AND EXTEND AS INDICATED ON DRAWINGS.
	EXISTING REDUCED PRESSURE BACKFLOW PREVENTION DEVICE:
	EXISTING BOOSTER PUMP:
	EXISTING GATE VALVE:
	GATE VALVE: TYPE: LEEMCO GATE VALVE WITH A NON-RISING STEM AND OPERATING NUT. GATE VALVE INSTALLED IN A VALVE BOX WITH TOP OF BOX SET FLUSH TO FINISH GRADE. GATE VALVE TO BE LINE SIZE.
	EXISTING PRESSURE MAIN LINE:
	PRESSURE MAIN LINE: TYPE: ASTM D2241 SDR 21, 200 PSI, RUBBER GASKETED WITH LEEMCO FITTINGS. TRENCH DEPTH: IN PLANTED AREAS: 24" MINIMUM COVER. UNDER PAVED AREAS: 24" MINIMUM COVER. PVC SCHEDULE 40 SLEEVES ARE REQUIRED FOR ALL PIPING UNDER PAVEMENT.
	LATERAL LINE: TYPE: ASTM D1785, PVC SCHEDULE 40, SOLVENT WELD ALL UNSIZED PIPE SHALL BE 3/4" SIZE. TRENCH DEPTH: IN PLANTED AREAS: POP-UP SPRAY HEADS - 12" MINIMUM COVER. ROTOR HEADS - 18" MINIMUM COVER. UNDER PAVED AREAS: 24" MINIMUM COVER. PVC SCHEDULE 40 SLEEVES ARE REQUIRED FOR ALL PIPING UNDER PAVEMENT.
	EXISTING 1" PVC CONDUIT FOR CONTROL WIRES:
	EXISTING WIRE SPLICE BOXES:
	EXISTING AUTOMATIC CONTROL VALVE:
	AUTOMATIC CONTROL VALVE: HUNTER ICV-AS-ADJ OR APPROVED EQUAL. VALVE SHALL HAVE PRESSURE REGULATION OPTION.
	EXISTING QUICK COUPLER VALVE:
	LAWN POP-UP ROTOR HEADS: FULL CIRCLE HUNTER: I-40-04-SS-8, I-40-04-SS-15 THREE QUARTER HUNTER: I-40-04-SS-8, I-40-04-SS-15 HALF CIRCLE HUNTER: I-40-04-SS-8, I-40-04-SS-15 QUARTER CIRCLE HUNTER: I-40-04-SS-8, I-40-04-SS-15
	LAWN POP-UP ROTOR HEADS: FULL CIRCLE I-20-04-SS-2.0, I-20-04-SS-3.0 THREE QUARTER I-20-04-SS-2.0, I-20-04-SS-3.0 HALF CIRCLE I-20-04-SS-2.0, I-20-04-SS-3.0 QUARTER CIRCLE I-20-04-SS-2.0, I-20-04-SS-3.0
	POP-UP SPRAY HEADS: HUNTER: PROS-06 WITH CHECK VALVE SERIES WITH MP800SR NOZZLES. FULL, THREE QUARTER, HALF, QUARTER, AND THIRD SPRAY PATTERNS.
	POP-UP SPRAY HEADS: HUNTER: PROS-06 WITH CHECK VALVE SERIES WITH MP1000 NOZZLES. FULL, HALF, AND QUARTER SPRAY PATTERNS.
	POP-UP SPRAY HEADS: HUNTER: PROS-06 WITH CHECK VALVE SERIES WITH MP2000 NOZZLES. HALF AND QUARTER SPRAY PATTERNS.
	POP-UP SPRAY HEADS: HUNTER: PROS-06 WITH CHECK VALVE SERIES WITH MP3000 NOZZLES. FULL, THREE QUARTER, HALF, QUARTER, AND THIRD SPRAY PATTERNS.
	POP-UP SPRAY HEADS: HUNTER: PROS-06 WITH CHECK VALVE SERIES WITH MP STRIP NOZZLES. CORNER AND SIDE SPRAY PATTERNS.
	POP-UP SPRAY HEADS: HUNTER: PROS-06 WITH CHECK VALVE SERIES WITH MP CORNER NOZZLES. 45 DEGREE SPRAY PATTERN.
	INDICATES CONTROL VALVE AND STATION NUMBER
	INDICATES CONTROL VALVE SIZE
	INDICATES GALLONS PER MINUTE
	EXISTING TREE PROTECTION AREA: THE PROTECTION AREA UNDER ANY EXISTING TREE THAT IS TO REMAIN IS DEFINED BY ITS DRIP LINE OR CANOPY COVER. WITHIN THIS AREA NO STORAGE OR PARKING WILL BE PERMITTED. ALL TRENCHING WILL BE PERFORMED BY HAND AND NOT CUT ROOTS 1" IN DIAMETER OR LARGER. USE BORING PROCEDURES WHEN ENCOUNTERING ROOTS 1" SIZE AND LARGER. NO ROOTS ARE TO BE EXPOSED LONGER THAN 48 HOURS.

- SPRINKLER IRRIGATION NOTES**
- COMPOSITE BASE SHEET: PROPOSED IMPROVEMENTS SHOWN ON DRAWINGS ARE SUPERIMPOSED ON A COMPOSITE BASE SHEET. THE COMPOSITE BASE SHEET IS A COMPILATION OF ARCHITECTURAL, ENGINEERING, AND OTHER DATA THAT IS PROVIDED. THE LANDSCAPE ARCHITECT SHALL NOT BE HELD LIABLE FOR CHANGES, INACCURACIES, OMISSIONS, OR ERRORS PERTAINING TO THE COMPOSITE BASE SHEET. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THESE DOCUMENTS. ANY DISCREPANCIES NEED TO BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM AND RESOLVED PRIOR TO CONTINUATION OF WORK.
 - DESIGN PRESSURE SHOWN ON PLANS HAS BEEN FURNISHED BY WATER COMPANY OR WATER DISTRICT SERVING SITE. VERIFY PRESSURE ON-SITE PRIOR TO THE INSTALLATION OF ANY SPRINKLER IRRIGATION EQUIPMENT. IF THERE IS A DISCREPANCY, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IN WRITING SO ADJUSTMENTS CAN BE MADE BY LANDSCAPE ARCHITECT. FAILURE TO REPORT DISCREPANCIES AND CONTINUANCE OF WORK WILL RESULT IN ALL RE-DESIGN COSTS BEING CHARGED TO CONTRACTOR.
 - DETERMINE LOCATION OF UNDERGROUND UTILITIES. DAMAGE CAUSED BY INSTALLATION OF THIS WORK SHALL BE REPAIRED TO SATISFACTION OF GOVERNING AGENCY OR OWNER AT NO ADDITIONAL COST TO THE CONTRACT.
 - SPRINKLER OVER SPRAY SHALL NOT BE ALLOWED ON PUBLIC SIDEWALKS, BUILDING WALLS OR FENCES. MINIMUM OVERSPRAY MAY OCCUR IN PARKING AREAS. USE ADJUSTABLE NOZZLES WHENEVER POSSIBLE TO CONTROL SPRINKLER OVERSPRAY.
 - ALL LOCAL CODES AND ORDINANCES SHALL BE COMPLIED WITH. IF THERE IS A CONFLICT, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY.
 - TESTING:
A. PRESSURE TEST ALL UNDERGROUND PIPING AS FOLLOWS:
MAIN LINE - AT 100 PSI FOR 2 HOURS.
LATERAL LINES - AT 100 PSI FOR 2 HOURS.
B. COVERAGE TEST: NOTE: PRIOR TO REQUESTING COVERAGE TEST, INSURE ALL HEADS ARE SET PLUMB. NOZZLES ARE ADJUSTED PROPERLY AND SYSTEM HAS BEEN CHECKED FOR AUTOMATIC. REQUEST OWNER'S REPRESENTATIVES PRESENCE ON-SITE WHEN SPRINKLER SYSTEM IS COMPLETELY INSTALLED AND FULLY AUTOMATIC. PROVIDE ADEQUATE PERSONNEL AT THIS MEETING TO ADJUST AND FINE TUNE SYSTEM TO SATISFACTION OF OWNER'S REPRESENTATIVE.
 - LAYOUT ALL WORK PRIOR TO TRENCHING OPERATIONS TO DETERMINE IF MINOR MODIFICATIONS OR ADJUSTMENTS WILL BE REQUIRED.
 - INSTALL ALL SPRINKLER HEADS PERPENDICULAR TO SLOPES OR GRADE.
 - CONTROL WIRE SHALL BE UF-14, COLOR FOR LEAD AND WHITE FOR COMMON. SPLICES SHALL BE PERMITTED AT VALVE BOX LOCATIONS ONLY.
 - PROVIDE AND INSTALL AUTOMATIC CONTROLLER AND UF-14 CONTROL WIRE. ELECTRICAL SUBCONTRACTOR SHALL PROVIDE 110V SERVICE AND SERVICE HOOKUP FROM POWER TO AUTOMATIC CONTROLLER.
 - COORDINATE ALL WORK WITH OTHER TRADES SO PROGRESS OF WORK IS NOT INTERRUPTED AND CAN BE COMPLETED IN A TIMELY MANNER.
 - NO PLANTING SHALL BE STARTED UNTIL ALL SPRINKLER WORK HAS BEEN TESTED AND APPROVED IN PRESENCE OF OWNER'S REPRESENTATIVE.
 - FOR SPRINKLER IRRIGATION INSTALLATION DETAILS, SEE SHEET NO. L3.1 AND L3.2.

MTW group
LANDSCAPE ARCHITECTURE
AND PLANNING
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Peter D. Larimer C-5284

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REVISIONS

NO.	DESCRIPTION	DATE	REV'D
1	ADDENDUM #1	3/20/20	SL

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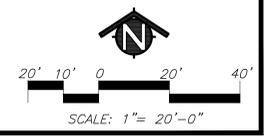
NO.	DWG BY	DATE	REVIEWED

**WILL C. WOOD MIDDLE SCHOOL
AND ABRAHAM LINCOLN ELEMENTARY SCHOOL
IRRIGATION IMPROVEMENTS
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT**

 ABRAHAM LINCOLN ES
3324 GLEENMOOR DRIVE
SACRAMENTO, CA 95824

 WILL C. WOOD MS
6201 LEMON HILL AVE.
SACRAMENTO, CA 95827

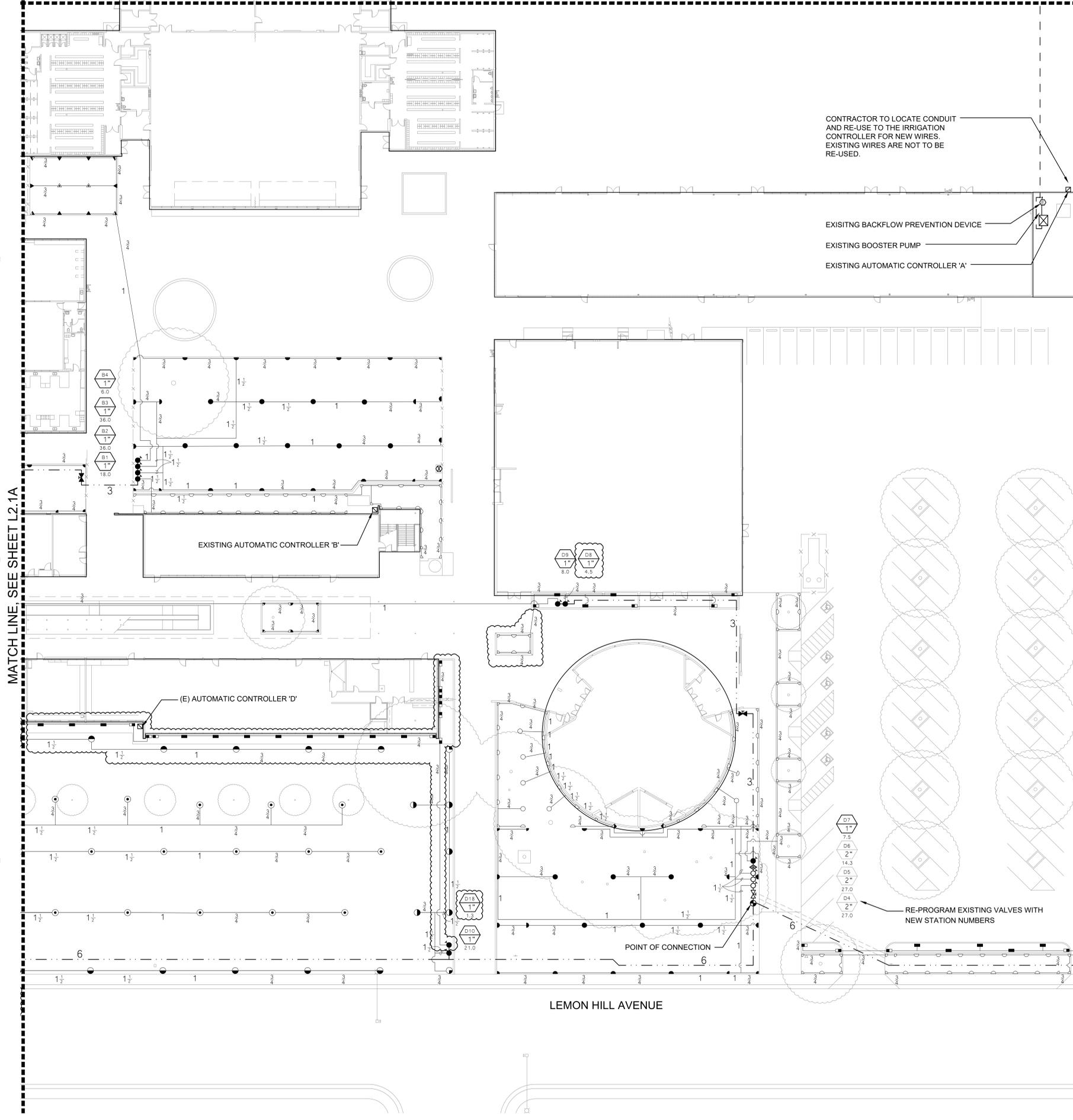
DATE 3/11/20
JOB NO. 19-57
SHEET TITLE
**WILL C WOOD MS
LANDSCAPE
IRRIGATION PLAN**
SHEET NO.
L2.1A
SHEET 5 OF 17 TOTAL



MATCH LINE, SEE SHEET L2.4A VIEW TWO

MATCH LINE, SEE SHEET L2.1A

MATCH LINE, SEE SHEET L2.3A

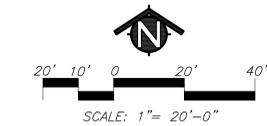


KEY SPRINKLER IRRIGATION LEGEND

- EXISTING AUTOMATIC CONTROLLER:**
AUTOMATIC CONTROLLERS A,B,C:
HUNTER CONTROL SYSTEM - 12 STATION CONVENTIONAL CONTROLLER
AUTOMATIC CONTROLLER D:
HUNTER CONTROL SYSTEM - 18 STATION CONVENTIONAL CONTROLLER
CONTRACTOR TO PURCHASE AND INSTALL EXPANSION MODULES (A2M-600) TO ADD STATIONS FOR ADDITIONAL VALVES.
- POINT OF CONNECTION:**
IRRIGATION SYSTEM OPERATING WATER PRESSURE: 80 PSI
MAXIMUM FLOW IS 190 GPM
CONTRACTOR SHALL LOCATE EXISTING IRRIGATION MAINLINE CONNECT AT THIS POINT AND EXTEND AS INDICATED ON DRAWINGS.
- EXISTING REDUCED PRESSURE BACKFLOW PREVENTION DEVICE:**
- EXISTING BOOSTER PUMP:**
- EXISTING GATE VALVE:**
GATE VALVE:
TYPE:
LEEMCO GATE VALVE WITH A NON-RISING STEM AND OPERATING NUT.
GATE VALVE INSTALLED IN A VALVE BOX WITH TOP OF BOX SET FLUSH TO FINISH GRADE.
GATE VALVE TO BE LINE SIZE.
- EXISTING PRESSURE MAIN LINE:**
PRESSURE MAIN LINE:
TYPE:
ASTM D2241 SDR 21, 200 PSI, RUBBER GASKETED WITH LEEMCO FITTINGS.
TRENCH DEPTH:
IN PLANTED AREAS: 24" MINIMUM COVER
UNDER PAVED AREAS: 24" MINIMUM COVER
PVC SCHEDULE 40 SLEEVES ARE REQUIRED FOR ALL PIPING UNDER PAVEMENT.
- LATERAL LINE:**
TYPE:
ASTM D1785, PVC SCHEDULE 40, SOLVENT WELD ALL UNSIZED PIPE SHALL BE 3/4" SIZE.
TRENCH DEPTH:
IN PLANTED AREAS:
POP-UP SPRAY HEADS - 12" MINIMUM COVER.
ROTOR HEADS - 18" MINIMUM COVER.
UNDER PAVED AREAS: 24" MINIMUM COVER
PVC SCHEDULE 40 SLEEVES ARE REQUIRED FOR ALL PIPING UNDER PAVEMENT.
- EXISTING 1" PVC CONDUIT FOR CONTROL WIRES:**
- EXISTING WIRE SPLICE BOXES:**
- EXISTING AUTOMATIC CONTROL VALVE:**
- AUTOMATIC CONTROL VALVE:**
HUNTER ICV-AS-ADJ OR APPROVED EQUAL.
VALVE SHALL HAVE PRESSURE REGULATION OPTION.
- EXISTING QUICK COUPLER VALVE:**
- LAWN POP-UP ROTOR HEADS:**
FULL CIRCLE
HUNTER: I-40-04-SS-8, I-40-04-SS-15
THREE QUARTER
HUNTER: I-40-04-SS-8, I-40-04-SS-15
HALF CIRCLE
HUNTER: I-40-04-SS-8, I-40-04-SS-15
QUARTER CIRCLE
HUNTER: I-40-04-SS-8, I-40-04-SS-15
- LAWN POP-UP ROTOR HEADS:**
FULL CIRCLE
I-20-04-SS-2.0, I-20-04-SS-3.0
THREE QUARTER
I-20-04-SS-2.0, I-20-04-SS-3.0
HALF CIRCLE
I-20-04-SS-2.0, I-20-04-SS-3.0
QUARTER CIRCLE
I-20-04-SS-2.0, I-20-04-SS-3.0
- POP-UP SPRAY HEADS:**
HUNTER: PROS-06 WITH CHECK VALVE SERIES WITH MP8000R NOZZLES.
FULL, THREE QUARTER, HALF, QUARTER, AND THIRD SPRAY PATTERNS.
- POP-UP SPRAY HEADS:**
HUNTER: PROS-06 WITH CHECK VALVE SERIES WITH MP1000 NOZZLES.
FULL, HALF, AND QUARTER SPRAY PATTERNS.
- POP-UP SPRAY HEADS:**
HUNTER: PROS-06 WITH CHECK VALVE SERIES WITH MP2000 NOZZLES.
HALF AND QUARTER SPRAY PATTERNS.
- POP-UP SPRAY HEADS:**
HUNTER: PROS-06 WITH CHECK VALVE SERIES WITH MP3000 NOZZLES.
FULL, THREE QUARTER, HALF, QUARTER, AND THIRD SPRAY PATTERNS.
- POP-UP SPRAY HEADS:**
HUNTER: PROS-06 WITH CHECK VALVE SERIES WITH MP STRIP NOZZLES.
CORNER AND SIDE SPRAY PATTERNS.
- POP-UP SPRAY HEADS:**
HUNTER: PROS-06 WITH CHECK VALVE SERIES WITH MP CORNER NOZZLES.
45 DEGREE SPRAY PATTERN.
- INDICATES CONTROL VALVE AND STATION NUMBER**
- INDICATES CONTROL VALVE SIZE**
- INDICATES GALLONS PER MINUTE**
- EXISTING TREE PROTECTION AREA:**
THE PROTECTION AREA UNDER ANY EXISTING TREE THAT IS TO REMAIN IS DEFINED BY ITS DRIP LINE OR CANOPY COVER. WITHIN THIS AREA NO STORAGE OR PARKING WILL BE PERMITTED. ALL TRENCHING WILL BE PERFORMED BY HAND. DO NOT CUT ROOTS 1" IN DIAMETER OR LARGER. USE BORING PROCEDURES WHEN ENCOUNTERING ROOTS 1" SIZE AND LARGER. NO ROOTS ARE TO BE EXPOSED LONGER THAN 48 HOURS.

SPRINKLER IRRIGATION NOTES

1. COMPOSITE BASE SHEET: PROPOSED IMPROVEMENTS SHOWN ON DRAWINGS ARE SUPERIMPOSED ON A COMPOSITE BASE SHEET. THE COMPOSITE BASE SHEET IS A COMPILED OF ARCHITECTURAL, ENGINEERING, AND OTHER DATA THAT IS PROVIDED. THE LANDSCAPE ARCHITECT SHALL NOT BE HELD LIABLE FOR CHANGES, INACCURACIES, OMISSIONS, OR ERRORS PERTAINING TO THE COMPOSITE BASE SHEET. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THESE DOCUMENTS. ANY DISCREPANCIES NEED TO BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM AND RESOLVED PRIOR TO CONTINUATION OF WORK.
2. DESIGN PRESSURE SHOWN ON PLANS HAS BEEN FURNISHED BY WATER COMPANY OR WATER DISTRICT SERVING SITE. VERIFY PRESSURE ON-SITE PRIOR TO THE INSTALLATION OF ANY SPRINKLER IRRIGATION EQUIPMENT. IF THERE IS A DISCREPANCY, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IN WRITING SO ADJUSTMENTS CAN BE MADE BY LANDSCAPE ARCHITECT. FAILURE TO REPORT DISCREPANCIES AND CONTINUANCE OF WORK WILL RESULT IN ALL RE-DESIGN COSTS BEING CHARGED TO CONTRACTOR.
3. DETERMINE LOCATION OF UNDERGROUND UTILITIES. DAMAGE CAUSED BY INSTALLATION OF THIS WORK SHALL BE REPAIRED TO SATISFACTION OF GOVERNING AGENCY OR OWNER AT NO ADDITIONAL COST TO THE CONTRACT.
4. SPRINKLER OVER SPRAY SHALL NOT BE ALLOWED ON PUBLIC SIDEWALKS, BUILDING WALLS OR FENCES. MINIMUM OVERSPRAY MAY OCCUR IN PARKING AREAS. USE ADJUSTABLE NOZZLES WHENEVER POSSIBLE TO CONTROL SPRINKLER OVERSPRAY.
5. ALL LOCAL CODES AND ORDINANCES SHALL BE COMPLIED WITH. IF THERE IS A CONFLICT, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY.
6. TESTING:
A. PRESSURE TEST ALL UNDERGROUND PIPING AS FOLLOWS:
MAIN LINE - AT 100 PSI FOR 4 HOURS.
LATERAL LINES - AT 100 PSI FOR 2 HOURS.
B. COVERAGE TEST: NOTE: PRIOR TO REQUESTING COVERAGE TEST, INSURE ALL HEADS ARE SET PLUMB, NOZZLES ARE ADJUSTED PROPERLY AND SYSTEM HAS BEEN CHECKED FOR AUTOMATIC. REQUEST OWNER'S REPRESENTATIVE PRESENCE ON-SITE WHEN SPRINKLER SYSTEM IS COMPLETELY INSTALLED AND FULLY AUTOMATIC. PROVIDE ADEQUATE PERSONNEL AT THIS MEETING TO ADJUST AND FINE TUNE SYSTEM TO SATISFACTION OF OWNER'S REPRESENTATIVE.
7. LAYOUT ALL WORK PRIOR TO TRENCHING OPERATIONS TO DETERMINE IF MINOR MODIFICATIONS OR ADJUSTMENTS WILL BE REQUIRED.
8. INSTALL ALL SPRINKLER HEADS PERPENDICULAR TO SLOPES OR GRADE.
9. CONTROL WIRE SHALL BE UF-14, COLOR FOR LEAD AND WHITE FOR COMMON. SPLICES SHALL BE PERMITTED AT VALVE BOX LOCATIONS ONLY.
10. PROVIDE AND INSTALL AUTOMATIC CONTROLLER AND UF-14 CONTROL WIRE. ELECTRICAL SUBCONTRACTOR SHALL PROVIDE 110V SERVICE AND SERVICE HOOKUP FROM POWER SOURCE TO AUTOMATIC CONTROLLER.
11. COORDINATE ALL WORK WITH OTHER TRADES SO PROGRESS OF WORK IS NOT INTERRUPTED AND CAN BE COMPLETED IN A TIMELY MANNER.
12. NO PLANTING SHALL BE STARTED UNTIL ALL SPRINKLER WORK HAS BEEN TESTED AND APPROVED IN PRESENCE OF OWNER'S REPRESENTATIVE.
13. FOR SPRINKLER IRRIGATION INSTALLATION DETAILS, SEE SHEET NO. L3.1 AND L3.2.



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Peter D. Larimer C-5284

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CONSULTANTS

REVISIONS

NO.	DESCRIPTION	DATE	REV'D
1	ADDENDUM #1	3/20/21	SL

INITIAL BOX

NO.	DWG BY	DATE	REVIEWED

**WILL C. WOOD MIDDLE SCHOOL
AND ABRAHAM LINCOLN ELEMENTARY SCHOOL
IRRIGATION IMPROVEMENTS
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT**

ABRAHAM LINCOLN ES
3324 GLEENMOOR DRIVE
SACRAMENTO, CA 95827

WILL C. WOOD MS
6201 LEMON HILL AVE.
SACRAMENTO, CA 95824

DATE 3/11/20

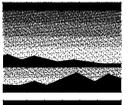
JOB NO. 19-57

SHEET TITLE
**WILL C WOOD MS
LANDSCAPE
IRRIGATION PLAN**

SHEET NO.

L2.2A

SHEET 6 OF 17 TOTAL



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 SACRAMENTO, CA 95824

DATE 3/11/20

JOB NO. 19-58

SHEET TITLE
**ABRAHAM LINCOLN
 ES DEMOLITION
 PLAN**

SHEET NO.

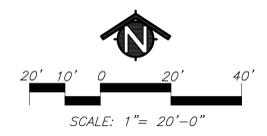
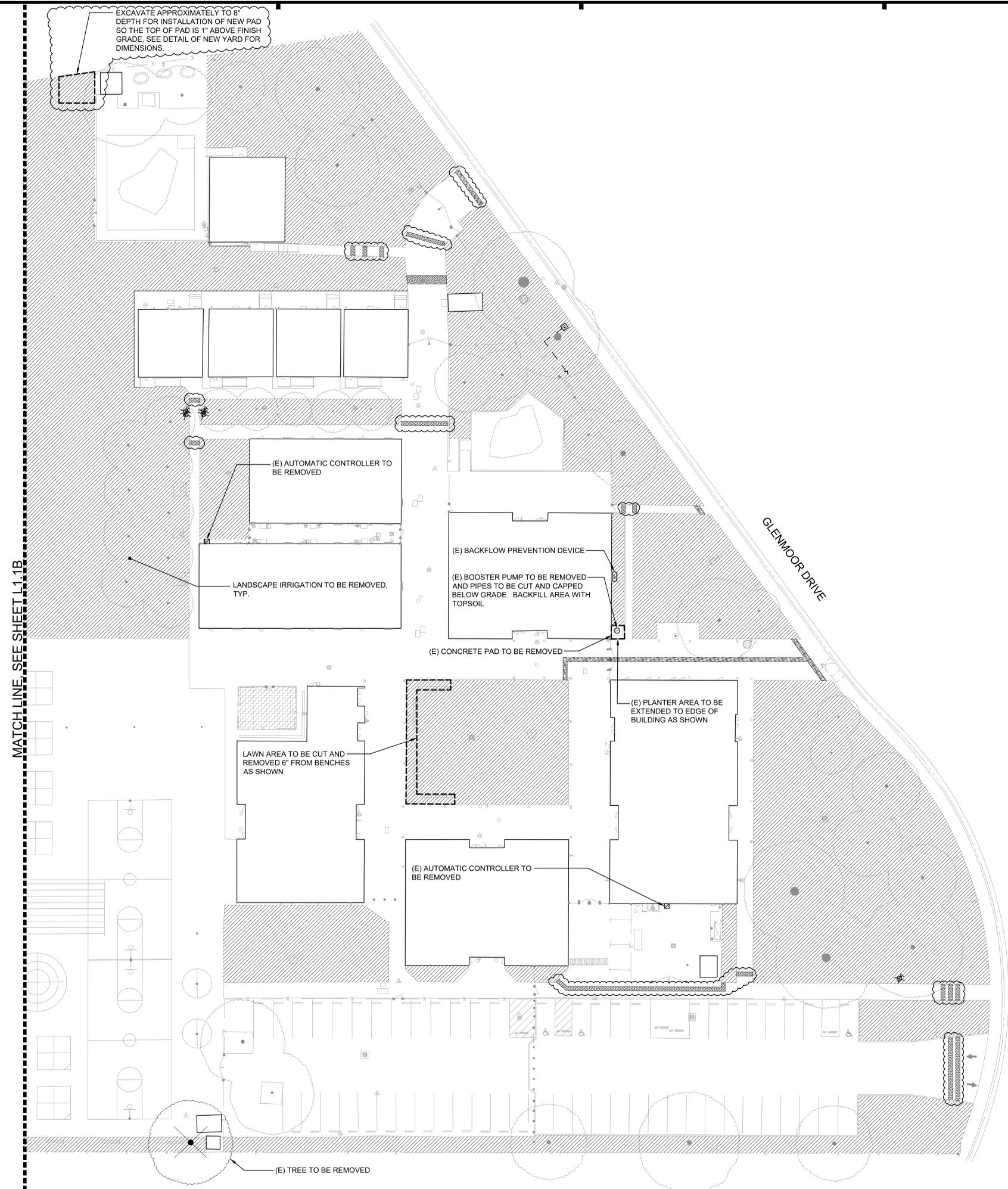
L1.2B

SHEET 10 OF 17 TOTAL

KEY	IRRIGATION DEMOLITION LEGEND
	EXISTING TREE TO REMAIN
	EXISTING TREE TO BE REMOVED
	LIMITS OF LANDSCAPE IRRIGATION TO BE REMOVED SPRINKLER HEADS TO BE REMOVED AND LATERAL LINES TO BE ABANDONED IN PLACE OR REMOVED AS NEEDED FOR WORK. ALL LANDSCAPE PLANTING TO REMAIN. CONTRACTOR TO REPAIR LANDSCAPE DAMAGED DUE TO CONSTRUCTION.
	EXISTING LANDSCAPE AND IRRIGATION AREAS TO REMAIN
	CONCRETE/ASPHALT TO BE SAWCUT ONCE NEW IRRIGATION LINES ARE INSTALLED, COMPACT BACKFILL TO 95%, PLACE MINIMUM 4" BASE AGGREGATE PRIOR TO REPLACEMENT OF APPROPRIATE PAVING MATERIAL TO MATCH WHAT WAS REMOVED.
	EXISTING PUMP TO BE REMOVED PIPES TO BE CUT AND CAPPED BELOW GRADE AND ELECTRICAL TO BE DISCONNECTED. PUMP CAGE AND CONCRETE PAD TO BE REMOVED
	EXISTING IRRIGATION CONTROLLER TO BE REMOVED
	EXISTING BACKFLOW PREVENTION DEVICE TO REMAIN
	EXISTING AUTOMATIC CONTROL VALVE TO BE REMOVED
	EXISTING IRRIGATION MAINLINE
	NOTE: CONTRACTOR TO IRRIGATE ALL TREES BY HAND DURING CONSTRUCTION PROCESS

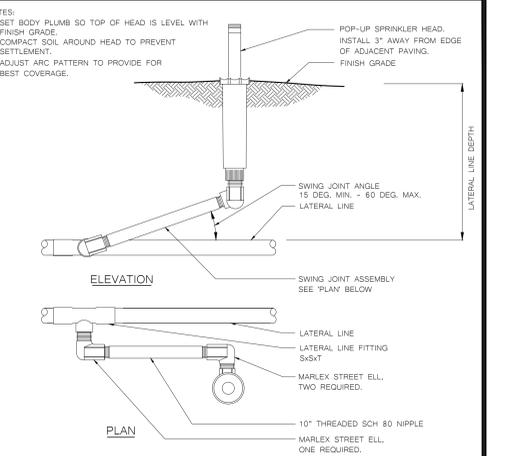
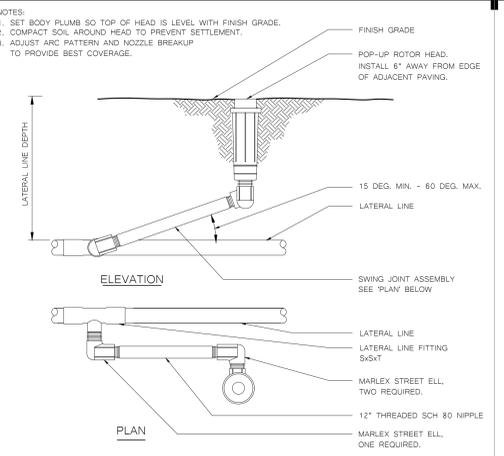
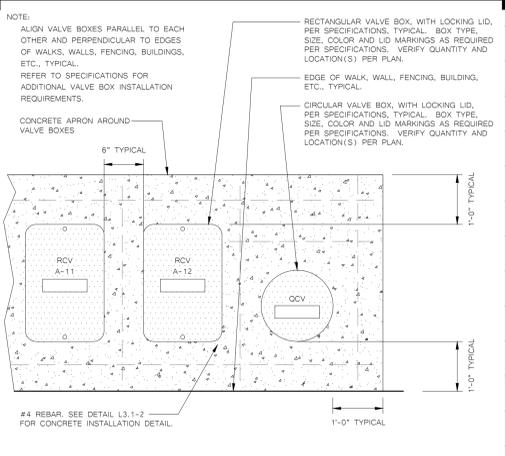
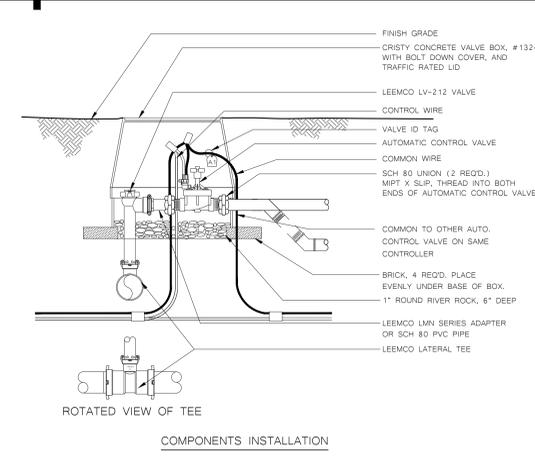
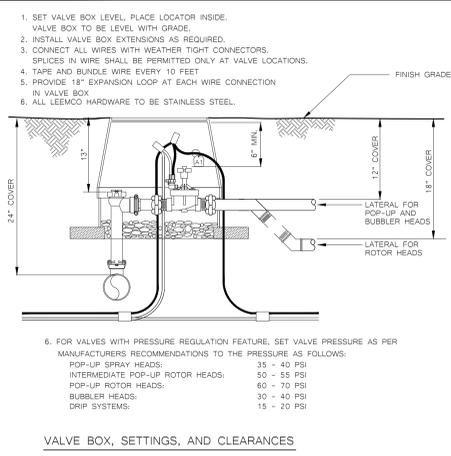
PRE-CONSTRUCTION SPRINKLER IRRIGATION NOTES

- PRIOR TO START OF CONSTRUCTION CONTRACTOR REQUIRED TO CONTACT:
 NAME, TITLE: TROY MIETZ
 PHONE NUMBER: 916-741-1034
 TO SET UP A MEETING ON SITE TO OPERATE THE EXISTING SPRINKLER IRRIGATION SYSTEM AND DISCUSS THE MODIFICATIONS THAT ARE TO BE MADE TO THE EXISTING SYSTEM TO ACCOMMODATE FOR THE NEW CONSTRUCTION.
- CONTRACTOR TO OPERATE AND PROGRAM EXISTING SPRINKLER IRRIGATION SYSTEM THAT IS TO REMAIN IN ORDER TO PROVIDE WATER TO THE EXISTING LANDSCAPE TO REMAIN.
- CONTRACTOR TO REMOVE ALL SPRINKLER HEADS WHEN THEY ARE IN NEW PLANTING AREAS.
- CONTRACTOR TO RESTORE AND REPAIR ANY EXISTING SPRINKLER IRRIGATION SYSTEM OR EXISTING LANDSCAPE WHICH IS IN AREAS TO REMAIN THAT IS DAMAGED BY NEW WORK.
- ALL WORK TO EXISTING SPRINKLER IRRIGATION SYSTEM TO BE COMPLETED PRIOR TO SITE DEMOLITION.



MATCHLINE, SEE SHEET L1.1B

EXCAVATE APPROXIMATELY TO 8" DEPTH FOR INSTALLATION OF NEW PAD SO THE TOP OF PAD IS 1" ABOVE FINISH GRADE. SEE DETAIL OF NEW YARD FOR DIMENSIONS.

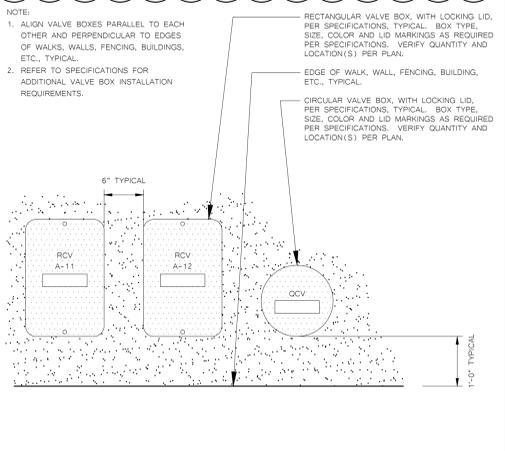
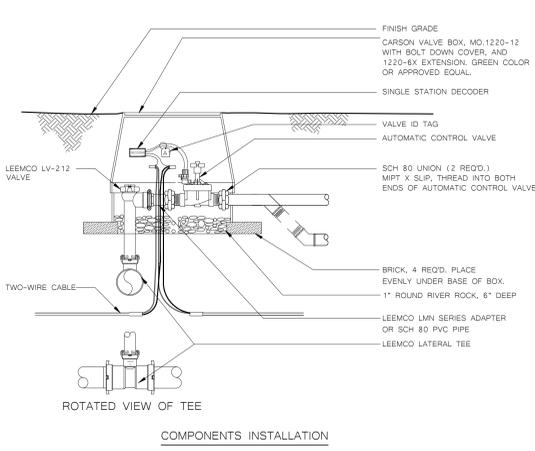
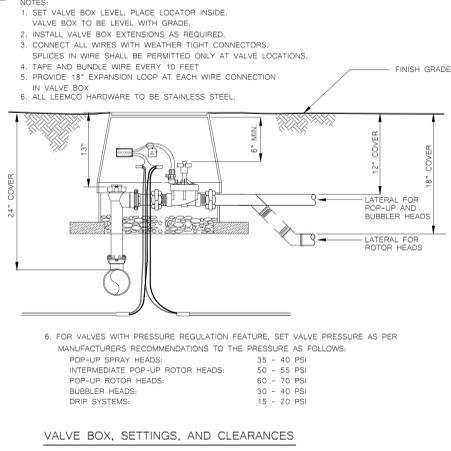


1 AUTOMATIC CONTROL VALVE/LEEMCO ANGLE VALVE DETAIL - FOR BOXES LOCATED IN LAWN

2 TYPICAL VALVE BOX LAYOUT - IN LAWN

3 POP-UP ROTOR HEAD DETAIL

4 POP-UP SPRINKLER HEAD DETAIL



5 AUTOMATIC CONTROL VALVE/LEEMCO ANGLE VALVE DETAIL - FOR BOXES LOCATED IN SHRUB BEDS

6 TYPICAL VALVE BOX LAYOUT - IN SHRUB BEDS

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SACRAMENTO, CA 95827

DATE	3/11/20
JOB NO.	19-58
SHEET TITLE	LANDSCAPE IRRIGATION DETAILS
SHEET NO.	L3.2
SHEET	14 OF 17 TOTAL