# FILLMORE HIGH SCHOOL - CTE BUILDING CONSTRUCTION DOCUMENTS

# **GENERAL NOTES**

- 1. VISIT SITE PRIOR TO SUBMITTING BIDS
- 2. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY SHOULD FIELD CONDITIONS VARY FROM THOSE SHOWN ON PLANS
- 3. DO NOT SCALE DRAWINGS.
- 4. ALL WORK CONSTRUCTION AND MATERIALS SHALL COMPLY WITH ALL PROVISIONS OF THE LATEST BUILDING CODE AND WITH OTHER RULES, REGULATIONS AND ORDINANCES GOVERNING THE LOCATION OF THE WORK. BUILDING CODE REQUIREMENTS TAKE PRECEDENCE OVER THE DRAWINGS AND IT SHALL BE THE RESPONSIBILITY OF ANYONE SUPPLYING LABOR OR MATERIALS OR BOTH TO BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT ANY DISCREPANCIES OR CONFLICT BETWEEN THE REQUIREMENTS OF THE CODE AND THE DRAWINGS.
- REFERENCE TO ANY DETAIL OR DRAWING IS FOR CONVENIENCE ONLY AND DOES NOT LIMIT THE APPLICATION OF SUCH DETAIL OR DRAWINGS.
- . DISCREPANCIES IN THE DRAWINGS OR BETWEEN THE DRAWINGS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO TH LANDSCAPE ARCHITECT. CORRECTED DRAWINGS OR INSTRUCTIONS SHALL BE ISSUED PRIOR TO THE CONTINUATION OF THIS WORK. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY CORRECTIONS DUE TO FAILURE TO REPORT KNOWN DISCREPANCIES.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL WORK SHOWN ON THESE DRAWINGS AND SPECIFICATIONS UNLESS SPECIFICALLY NOTED OTHERWISE.
- THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE UNLESS OTHERWISE SHOWN; THE DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY FIELD REPRESENTATIVES OF THE LANDSCAPE ARCHITECT SHAL IONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES REQUIRED FOR SAME, WHIC ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. ANY SUPPORT SERVICES PERFORMED BY THE LANDSCAPE ARCHITECT DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE LANDSCAPE ARCHITECT, WHETHER OF MATERIAL OR WORK, AND WHETHER PERFORMED BEFORE, DURING OR AFTER COMPLETION OF CONSTRUCTION ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS, BUT THEY DO NOT GUARANTEE GENERAL CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
- 9. A PROTECTION FENCE SHALL BE CONSTRUCTED AND MAINTAINED DURING CONSTRUCTION CONFORMING TO THE REQUIREMENTS OF THE BUILDING CODE.
- 10. MAINTAIN SANITARY TOILET FACILITIES DURING CONSTRUCTION AS REQUIRED BY APPLICABLE REGULATIONS.
- 11. THE GENERAL CONTRACTOR WARRANTS TO THE OWNER AND THE LANDSCAPE ARCHITECT THAT ALL MATERIALS AND EQUIPMENT FURNISHED WILL BE NEW UNLESS OTHERWISE SPECIFIED AND THAT ALL WORK WILL BE OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS.
- 12. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK AND/OR EQUIPMENT SUPPLIED BY THE OWNER.
- 13. PROVIDE FACILITIES FOR THE PHYSICALLY HANDICAPPED IN ACCORDANCE WITH C.A.C. TITLE 24 AND AS REQUIRED BY THE LATEST VERSION OF THE CALIFORNIA BUILDING CODE.
- 14. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE GENERAL CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE EXECUTION OF THIS WORK.
- 15. PAVING, MASONRY AND CONCRETE SUBCONTRACTORS ARE TO COORDINATE WITH THE ELECTRICIAN, DRAINLINE SUBCONTRACTOR AND IRRIGATION SUBCONTRACTOR FOR SLEEVING, PIPING AND/OR CONDUIT INSTALLATION UNDER OR THROUGH HARDSCAPE ELEMENTS.
- 16. VERIFY ALL PROPERTY LINES OR OTHER LIMIT OF WORK LINES PRIOR TO COMMENCING WORK.
- 17. IN THE CASE OF DISCREPANCIES IN THE DRAWINGS, SPECIFICATIONS TAKE PRECEDENCE OVER DETAILS, AND DETAILS TAKE PRECEDENCE OVER PLANS.
- 18. SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE OWNER.
- 19. THE GENERAL CONTRACTOR SHALL ENSURE THAT ALL TRADES ARE PROVIDED WITH CURRENT DRAWINGS AND SPECIFICATIONS APPROVED FOR CONSTRUCTION. DO NOT ALLOW DOCUMENTS NOT APPROVED FOR CONSTRUCTION TO BE USED IF SEEN ON SITE. KEEP ONE SET OF AGENCY-APPROVED STAMPED PLANS ON SITE IN CASE CITY INSPECTORS REQUIRE PROOF OF CITY-APPROVED PLANS.
- 20. REPAIR OR REPLACE ANY DAMAGE TO ADJACENT PROPERTIES, CURBS, WALKS, PLANTING, WALLS, ETC. AT NO ADDITIONAL COST TO THE OWNER.
- 21. LOCATIONS OF N.I.C. CONSTRUCTION ELEMENTS SUCH AS LIGHTS, SIGNS, VENTS, HYDRANTS, TRANSFORMERS, ETC. ARE APPROXIMATE. NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY SHOULD THE LOCATION OF THESE ITEMS INTERFERE WITH THE PROPER EXECUTION OF WORK.
- 22. PROVIDE THE OWNER WITH ALL WARRANTIES, GUARANTEES, AND INSTRUCTION MANUALS FOR EQUIPMENT, APPLIANCES, FIXTURES, ETC. AS DESCRIBED IN THE SPECIFICATIONS.
- 23. NOTIFY THE CITY'S AUTHORIZED REPRESENTATIVE 48 HOURS PRIOR TO COMMENCEMENT OF WORK TO COORDINATE PROJECT INSPECTION SCHEDULES.
- 24. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
- 25. CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING AND ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
- 26. LANDSCAPE ARCHITECT SHALL HAVE FINAL SAY ON INTERPRETATION OF ALL INFORMATION CONTAINED IN THE LANDSCAPE CONSTRUCTION DOCUMENTS, SPECIFICATIONS AND ASSOCIATED REPORTS FOR THE PROJECT.

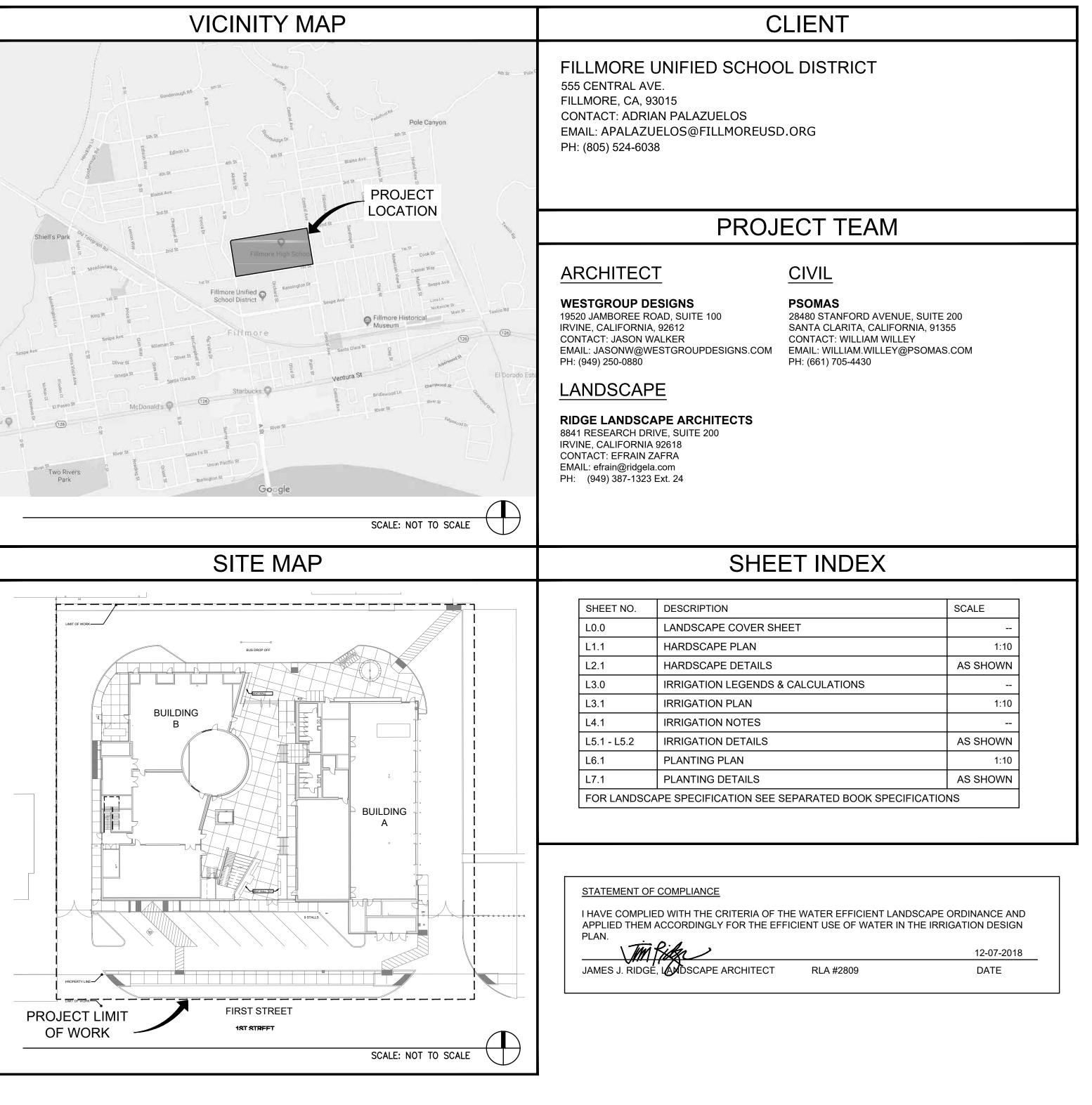
UNDERGROUND SERVICE ALERT CALL: TOLL FREE 811 TWO WORKING DAYS BEFORE YOU DIG SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT IDENTIFICATION NUMBER CALL UNDERGROUND SERVICE ALERT.

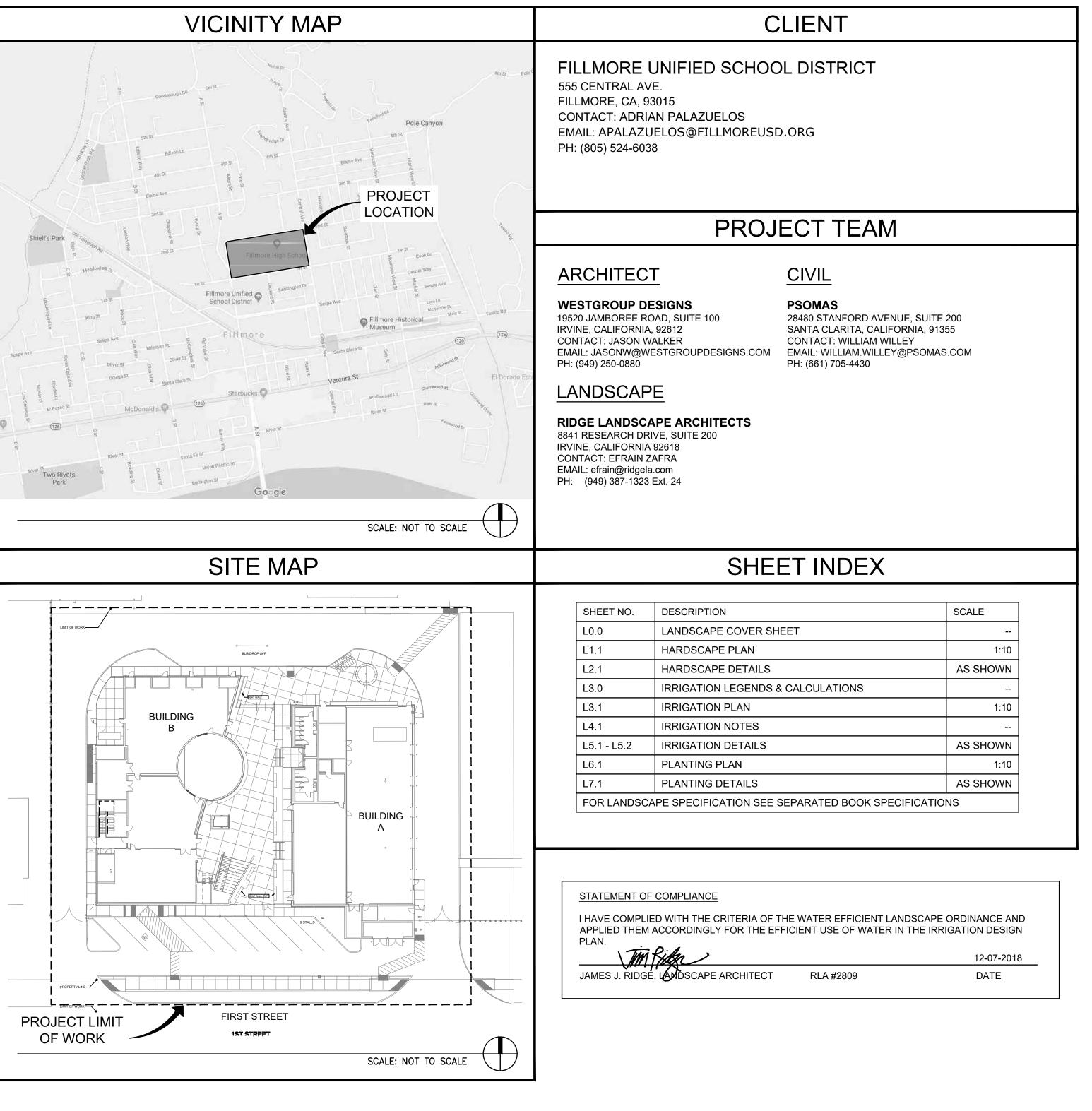
# 555 CENTRAL AVE. FILLMORE, CALIFORNIA 93015

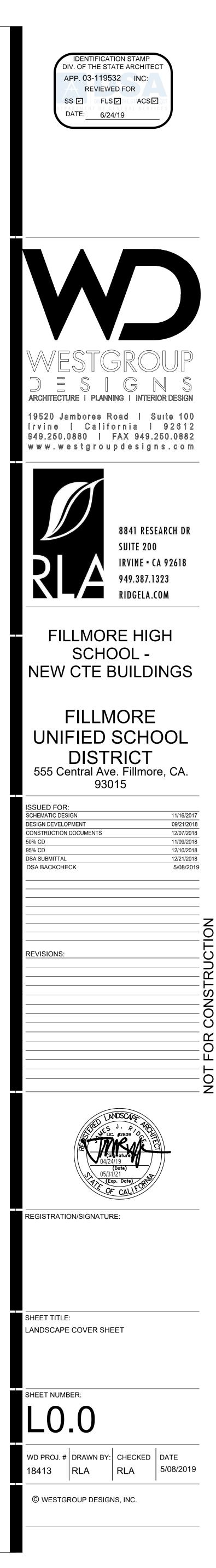
# ABBREVIATIONS

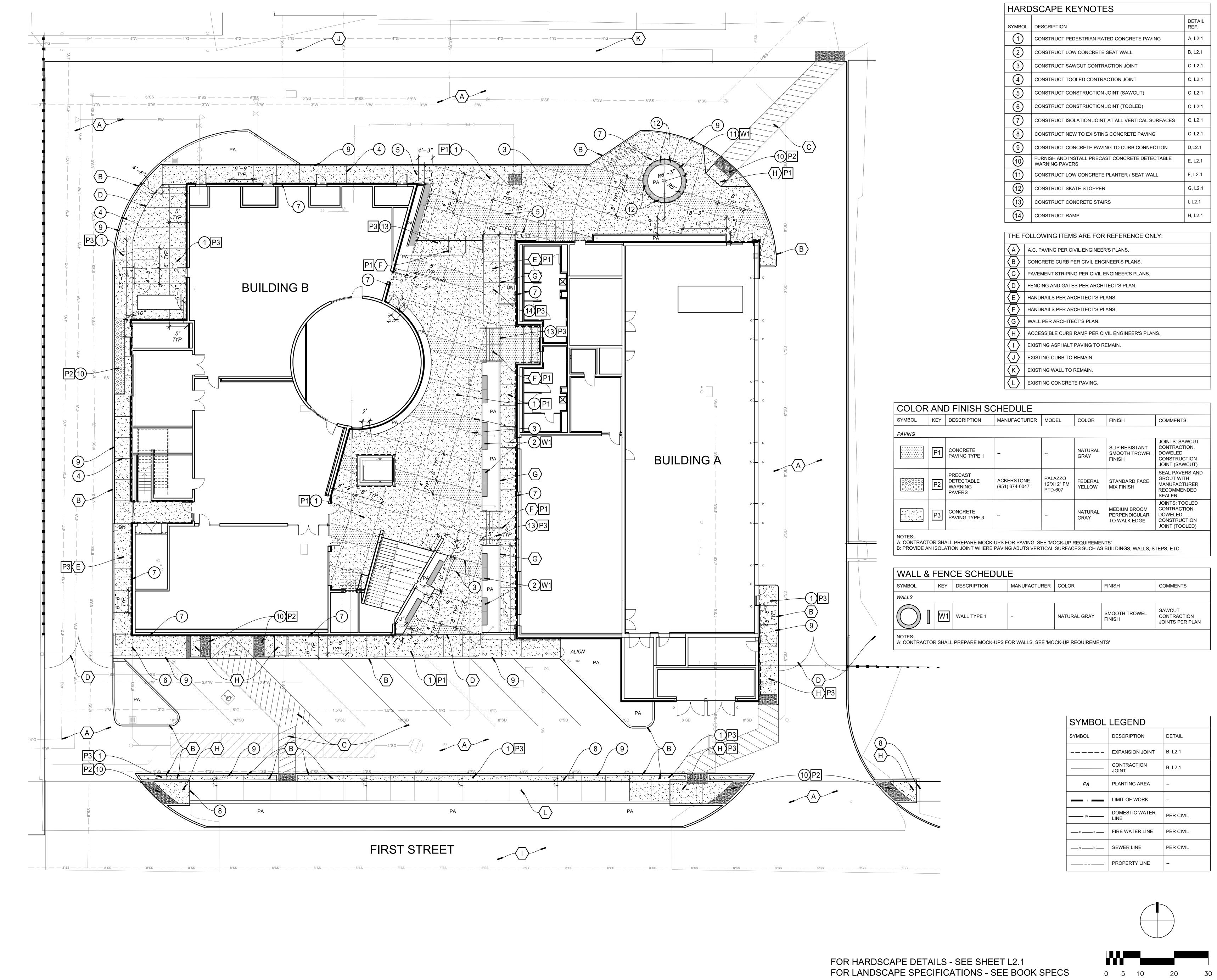
| @          | AT                 |
|------------|--------------------|
| ۹ <u>ـ</u> | CENTERLINE         |
| #          | NUMBER             |
| AC         | ASPHALTIC CONCRETE |
| CF         | CUBIC FOOT         |
| CLR        | CLEAR              |
| CONC       | CONCRETE           |
|            | CENTER             |
| DIA        | DIAMETER           |
| DIM        | DIMENSION          |
| EJ         | EXPANSION JOINT    |
| EQ         | EQUAL              |
| E.W.       | EACH WAY           |
| EX.        | EXISTING           |
| FG         | FINISH GRADE       |
| FS         | FINISH SURFACE     |
| GA         | GAUGE              |
| -          | GALVANIZED         |
|            | HORIZONTAL         |
| HT         | HEIGHT             |
|            | INSIDE DIAMETER    |
|            | INCLUDING          |
|            | INVERT ELEVATION   |
|            | LIMIT OF WORK      |
| М          | METER              |
| MAX        |                    |
|            | MANUFACTURER       |
| MH         | MANHOLE            |
| MIN        | MINIMUM            |
|            |                    |

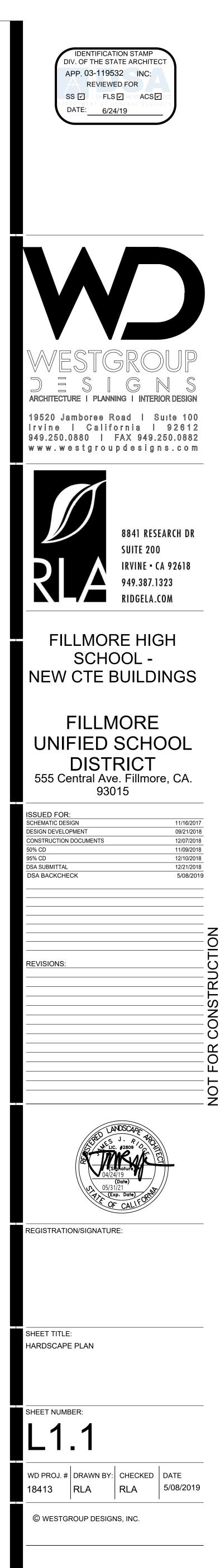
| ISC   | MISCELLANEOUS    |
|-------|------------------|
|       | NOT A PART       |
|       | NO COMMON NAME   |
| IC    | NOT IN CONTRACT  |
| -     | NOT TO SCALE     |
|       | ON CENTER        |
| -     | OUTSIDE DIAMETER |
|       | PROPERTY LINE    |
|       | PLANTER AREA     |
|       | POURED IN PLACE  |
|       | RADIUS           |
| EV    | REVISION         |
| .O.W. | RIGHT OF WAY     |
| HT    | SHEET            |
| PEC   | SPECIFICATION    |
| F     | SQUARE FOOT      |
| Q     | SQUARE           |
| S     | STAINLESS STEEL  |
| TD    | STANDARD         |
|       | TRANSFORMER      |
| .C.   | TOP OF CURB      |
| .D.   | TOP OF DRAIN     |
|       | TOP OF RAILING   |
| .S.   | TOP OF STEP      |
|       | TOP OF WALL      |
| YP    | TYPICAL          |
|       | VERTICAL         |
|       | WITH             |
|       | WROUGHT IRON     |
| /T    | WEIGHT           |

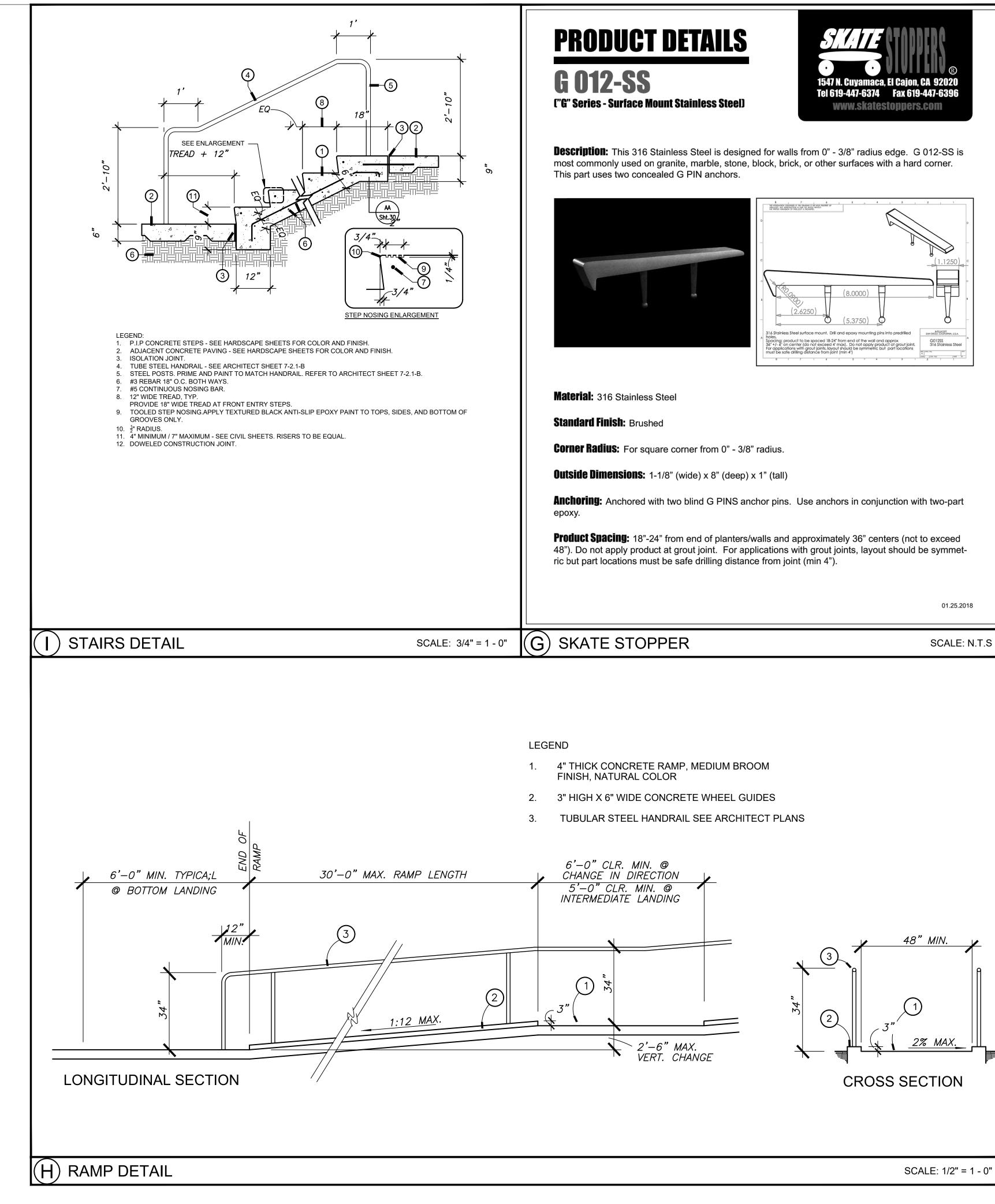




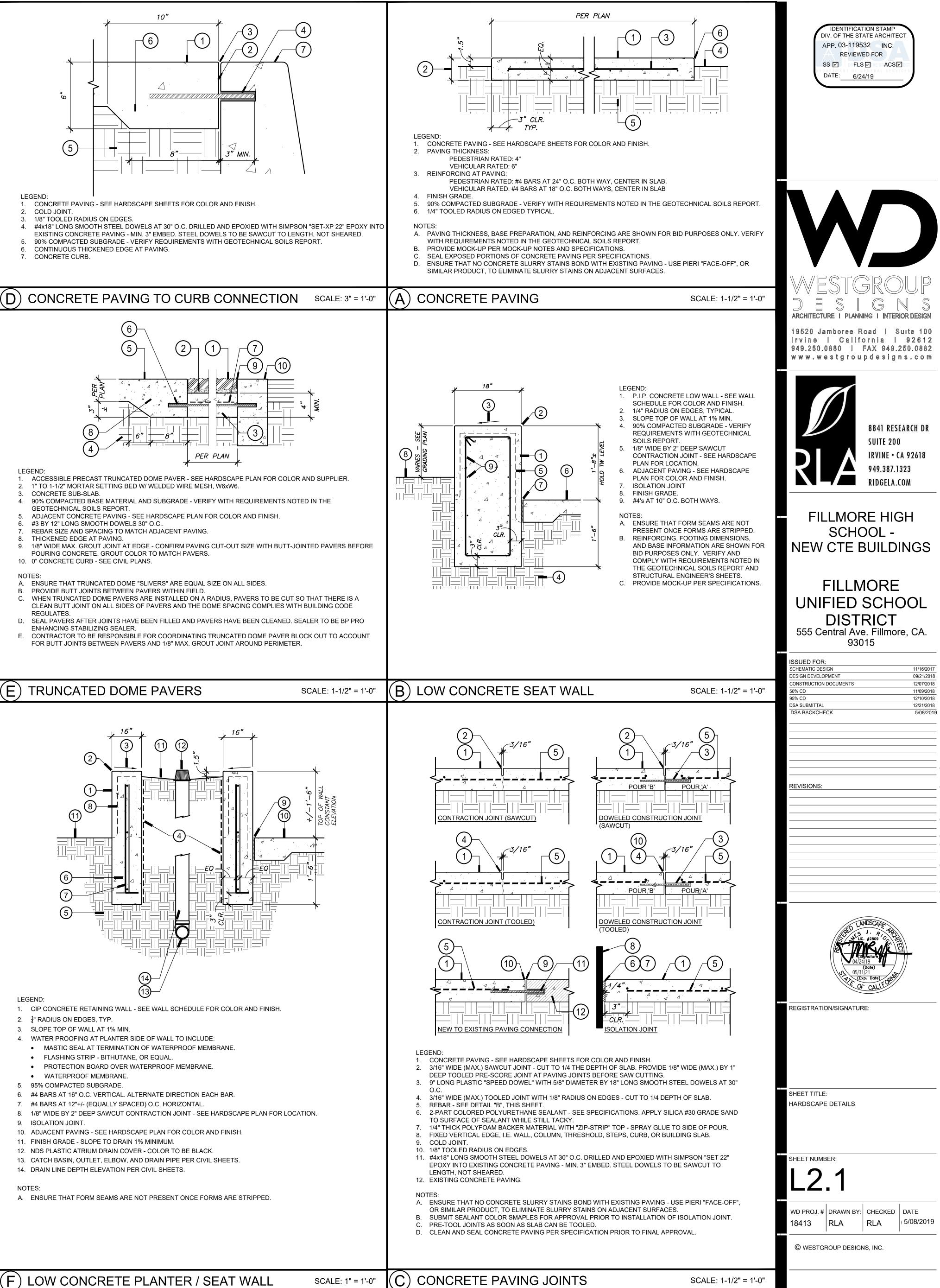




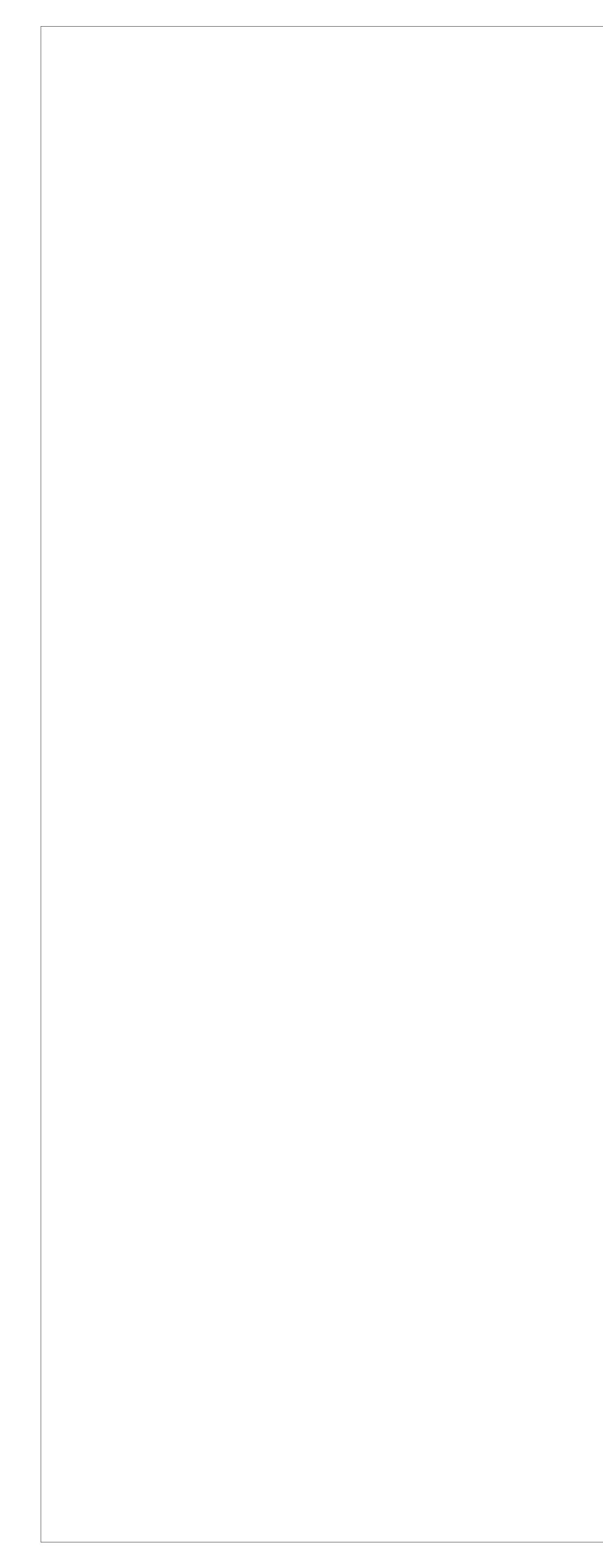








(F) LOW CONCRETE PLANTER / SEAT WALL



| THESE S         | CTOR SHA     | D RUN TIM  | IES ARE FO  | ES AS REC    | QUIRED TO    | PROVIDE  | APPROPRIATE V   |                |                  |                 | YCLES |
|-----------------|--------------|------------|---|--------------|--------------|----------|-----------------|----------------|------------------|-----------------|-------|
|                 |              |            |   |              |              |          |                 |                |                  |                 |       |
|                 |              |            |   |              | 01/100       |          |                 |                |                  |                 |       |
| -               | ıme: Fillmo  | re High Sc |   |              |              |          |                 |                |                  |                 |       |
| Meter Nur       | nber: #1     |            | Con   | troller Lett | er: "A"      |          |                 |                |                  | Days Per Week:  |       |
| Evapotran       | spiration R  | ates:      |   |              |              |          | ]               |                | Irrigation Effic | ciency (%):     |       |
| Eto Histori     |              |            | 61.4  |              |              |          |                 |                |                  | Rotors:         | 0.75  |
|                 | 25 U.B.B.B.  |            | Winter  | Spring       | Summer       | Fall     |                 |                |                  | Spray Heads:    | 0.71  |
| Eto Per Da      | У            |            | 0.10  | 0.17         | 0.24         | 0.16     |                 |                |                  | Bubbler Heads:  | 0.77  |
| Eto Per Se      | -            |            | TIMES ARE FOR REFERENCE ONLY. ACTUAL RUN TIMES MAY DIFFER DUE TO VARYING SITE CONDITIONS.         UIST RUN TIMES AS REQUIRED TO PROVIDE APPROPRIATE WATER FOR EACH VALVE CIRCUIT. MULTIPLE CYCLES         SEASONAL IRRIGATION SCHEDULE         Cycles Per Day:<br>Days Per Week:         Days Per Week:         Inrigation Efficiency (%):<br>Rotors: 0.75<br>Spray Heads: 0.77<br>Bubbler Heads: 0.77<br>Drip Line: 0.81<br>Drip Emitter: 0.81<br>Stream Rotors: 0.75<br>Micro Spray 0.75<br>Micro Spray 0.75<br>Micro Spray 0.75<br>Micro Spray 0.75<br>Micro Spray Heads: 1.60<br>Bubbler Heads: 1.80<br>Drip Line: 0.64<br>Drip Line: 0.30         Precipitation Rate (in/hr)<br>Rotors: 0.45<br>Micro Spray 1.60<br>Bubbler Heads: 1.80<br>Drip Line: 0.40<br>Stream Rotary: 0.45<br>Micro Spray 0.45<br>Micro |              |              |          |                 |                |                  |                 |       |
|                 |              |            |   |              |              |          | 1               |                |                  |                 | 0.81  |
| Run Times       | (Minutes p   | er Day) =  | 60 x (Eto x I   | PF)/(PR x    | IE) x (7/RD) | / C      |                 |                |                  | -               | 0.75  |
|                 | , Evapotra   |            |   |              | , , , ,      |          |                 |                |                  |                 | 0.75  |
| IE = Irriga     | tion Efficie | ncy        |   |              |              |          |                 |                |                  |                 |       |
| PR = Preci      | pitation Ra  | te (Inches | per Hour)   |              |              |          |                 |                | Precipitation R  | ate (in/hr)     |       |
|                 |              | -          |   | ek)          |              |          |                 |                |                  |                 | 0.45  |
| C = Cycle       |              |            |   |              |              |          |                 |                |                  | Spray Heads:    | 1.60  |
| -               | Factor (Kc)  | )          |   |              |              |          |                 |                |                  |                 | 1.80  |
| 60 = Conv       | ersion to m  | inutes     |   |              |              |          |                 |                |                  | Drip Line:      | 0.64  |
| 7 = Days i      | n a week     |            |   |              |              |          |                 |                |                  | Drip Emitter:   | 0.40  |
|                 |              |            |   |              |              |          |                 |                |                  | Stream Rotary:  | 0.45  |
|                 |              |            |   |              |              |          |                 |                |                  | Micro Spray:    | 0.61  |
|                 |              |            |   |              |              |          |                 |                |                  |                 |       |
| Valve           | Water        | Danting    | Irrigation  | Ka           | DD           | IC       | Winter          | Spring         | Summer           | Fall            |       |
| Quantity        | Use Type     | Planting   | Туре  | KC           | FK           | IC       | (Dec, Jan, Feb) | (Mar, Apr, May | (Jun, Jul, Aug)  | (Sep, Oct, Nov) |       |
| 1               | Low          | Shrub      | Drip Line   | 0.30         | 0.64         | 0.81     | 3               | 6              | 8                | 6               | Min.  |
| 2               | Mod          | Shrub      | Drip Line   | 0.50         | 0.64         | 0.81     | 6               | 10             | 14               | 9               | Min.  |
| 2               | Mod          | Tree       | Bubbler   | 0.50         | 1.80         | 0.77     | 2               | 4              | 5                | 3               | Min.  |
| Total<br>Valves |              | 5          | Total Hou   | r Run Time   | es @ 7 Days  | Per Week | 0.3             | 0.5            | 0.6              | 0.4             | Hours |

| Irrigation Pressure (             |             |
|-----------------------------------|-------------|
| Meter No:                         |             |
| Minimum Pressure Required         | PSI:        |
| Valve No:                         |             |
| Valve Demand                      |             |
| Maximum System Demand             |             |
| Elevation Change P.O.C. to Hig    | ghest Head: |
| Losses:                           |             |
| 2" Water Meter                    |             |
| 2" Service line                   |             |
| 2" RP Backflow Device             |             |
| Isolation Valves                  |             |
| 1" R.C.V.                         |             |
| (Existing) 600 Feet of 2" Mainlin | ne CL 315   |
| 300 Feet of 1-1/4" Mainline Sch   | . 40        |
| Fitting Loss 10%                  |             |
| Lateral Line Loss 10%             |             |
| Loss to Highest Head              |             |
| Total Losses:                     |             |
| Head Operating Pressure:          |             |
| Total Pressure Required:          |             |
| Minimum Pressure Required:        |             |
| Residual Pressure:                |             |

## FOR REFERENCE ONLY:

AB1881 WATER BUDGET CALCULATIONS SHOWN FOR REVISED LANDSCAPE AREA ONLY. (CALCULATIONS SHOW THIS PROJECT TO BE IN COMPLIANCE WITH STATE MODEL WATER EFFICIENT LANDSCAPE California Water Efficient Landscape Worksheet

|                          | Califo            |             |                     | muscape           | WURSHC     | CL .           |                     |                     |
|--------------------------|-------------------|-------------|---------------------|-------------------|------------|----------------|---------------------|---------------------|
| Reference Evapotranspir  | ration ( $ET_o$ ) |             | 61.4                | Project           | t Type     | Non-Resid      | lential             | 0.45                |
|                          |                   | Plant       | Irrigation          | Irrigation        | ETAF       | Landscape      | ETAF x              | Estimated Total     |
| Hydrozone # / Planting [ | Description       | Factor (PF) | Method <sup>b</sup> | Efficiency        | (PF/IE)    | Area (Sq. Ft.) | Area                | Water Use           |
|                          |                   |             |                     | (IE) <sup>c</sup> |            |                |                     | (ETWU) <sup>d</sup> |
| Regular Landscape        | Areas             | •           |                     |                   | •          |                | ·                   | •                   |
| 1 - Shrub Drip           | (LOW)             | 0.2         | Drip                | 0.81              | 0.25       | 539            | 133                 | 5066                |
| 2 - Shrub Drip           | (MODERATE)        | 0.4         | Drip                | 0.81              | 0.49       | 926            | 457                 | 17408               |
| 3 - Tree Bubbler         | (MODERATE)        | 0.5         | Bubbler             | 0.77              | 0.65       | 32             | 21                  | 791                 |
|                          |                   |             |                     |                   | Totals     | 1497           | 611                 | 23265               |
| Special Landscape        | Areas             |             |                     |                   | •          |                |                     | •                   |
|                          |                   |             |                     |                   | 1          | 0              | 0                   | 0                   |
|                          |                   |             |                     |                   | Totals     | 0              | 0                   | 0                   |
|                          |                   |             |                     |                   | •          | ET             | WU Total            | 23,265              |
|                          |                   |             | Max                 | imum Allo         | wed Wat    | ter Allowance  | (MAWA) <sup>e</sup> | 25,645              |
| ETAF Calculations        |                   |             |                     |                   |            |                |                     | •                   |
| Regular Landscape A      | reas              |             |                     | Average E         | TAF for Re | egular         | ]                   |                     |
|                          |                   | 611         | 1                   | Landscape         | e Areas m  | ust be 0.55 or |                     |                     |

| Total ETAF x Area   | 611  |
|---------------------|------|
| Total Area          | 1497 |
| Average ETAF        | 0.41 |
|                     |      |
| All Landscape Areas |      |
| Total ETAF x Area   | 611  |
| Total Area          | 1497 |
| Average ETAF        |      |

- Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential
- 0.45 or below for non-residential areas.

- <sup>a.</sup> Hydrozone # / Planting Description e.g.
  1.) Shrub Drip (Low Water Use Planting)
  2.) Shrub Spray (Low Water Use Planting)
  3.) Shrub Rotor (Moderate Water Use Planting)
- <sup>b.</sup> Irrigation Method 1.) Overhead Spray

2.) Drip

- <sup>c.</sup> Irrigation Efficiency
- 1.) 0.81 Drip 2.) 0.71 Spray
- 3.) 0.73 Micro Spray 4.) 0.73 Rotary
- 5.) 0.73 Rotor
- 6.) 0.77 Bubbler
- d. ETWU (Annual Gallons Required) =
   Eto x 0.62 x ETAF x Area
   Where 0.62 is a conversion factor to change acre-inches per acre per year to gallons per square foot per year
- MAWA (Annual Gallons Allowed) =
   (Eto) (0.62) [ (ETAF x LA) + ((1-ETAF) x SLA)]
   Where 0.62 is a conversion factor to change acre-inches per acre per
   year to gallons per square foot per year, LA is the total regular
   landscape area in square feet, SLA is the total special landscape area in
   square feet, and ETAF is 0.55 for residential areas and 0.45 for non residential areas

| S MAY                               |  |
|-------------------------------------|--|
| 1<br>7                              |  |
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|                                     |  |
|                                     |  |
|                                     |  |
|                                     |  |
|                                     |  |
|                                     |  |
|                                     |  |
| . Per Day<br>. Per Day<br>. Per Day |  |
| rs Per Day                          |  |

| <u>n</u> |          |
|----------|----------|
|          | 1        |
| _        | 65 psi   |
|          | 1        |
|          | 5 GPM    |
|          | 5 GPM    |
|          | 0 FT     |
|          | 3.3 psi  |
| 1        | 0.6 psi  |
| 1        | 12.0 psi |
|          | 1.0 psi  |
|          | 4.0 psi  |
|          | 0.5 psi  |
|          | 0.6 psi  |
|          | 2.2 psi  |
|          | 3.0 psi  |
|          | 0.0 psi  |
|          | 27 psi   |
|          | 30 psi   |
|          | 57 psi   |
|          | 65 psi   |
|          | 8 psi    |

| IN-LINE DRIP IRRIGATION LEGEND   |   |  |  |  |  |   |      |
|--|---|--|--|--|--|---|------|
| SYMBOL     MANUFACTURE / MODEL NO. / DESCRIPTION     GPH     PSI     RADIUS     PREC.<br>RATE  |   |  |  |  |  |   |      |
| EHEHEHE  | RAIN BIRD - XFS-CV-6-12, XFS SUB-SURFACE "COPPER SHIELD" SERIES       0.61       30       N/A       0.73         17mm, 12" O.C. EMITTER, DRIPLINE WITH PRESSURE COMPENSATING,<br>ANTI SIPHON CHECK VALVE AND COPPER SHIELD ROOT INTRUSION<br>PROTECTION EMITTER. INSTALL DRIP TUBING @ 16" MAXIMUM ROW<br>SPACING WITH TRIANGULAR SPACED EMITTER LAYOUT.       0.61       30       N/A       0.73 |  |  |  |  |   |      |
| RAIN BIRD - DRIPLINE CONNECTIONS SHALL BE MADE USING "XF SERIES" 17mm DRIPLINE INSERT<br>FITTINGS. INSTALL STAINLESS STEEL CLAMPS ON FITTINGS FOR ANY SYSTEM THAT EXCEEDS 50 PSI.  |   |  |  |  |  |   | L5.1 |
| Image: Rain Bird - 1812, 12" POP-UP DRIP SYSTEM COMBINATION FLUSH VALVE / DRIP INDICATOR.           INSTALL WITH "GPH" IRRIGATION PRODUCTS MODEL #GDFN, SERIES FLUSH VALVE.  |   |  |  |  |  | F | L5.1 |
| NETAFIM - TL050MFV-1, TECHLINE AUTOMATIC FLUSH VALVE WITH TLSOV, MANUAL VALVE. LOCATE AT<br>END OF DRIPZONE IN EACH DIRECTION, MINIMUM TWO PER ZONE. INSTALL FLUSH VALVE WITH<br>STAINLESS STEEL CRIMP CLAMPS INSIDE A 6" ROUND VALVE BOX 18" FROM PAVING. |   |  |  |  |  | G | L5.1 |
|  | I<br>NOTE: ALL SUB-SURFACE TUBING SHALL BE INSTALLED 2" BELOW FINISH SOIL GRADE ANCHORED WITH<br>RAIN BIRD 6" GALVANIZED WIRE STAKES, MODEL TDS-050 BEND, INSTALLED FOUR (4) FEET ON CENTER.  |  |  |  |  |   |      |

|           | IRRIGATION TREE BUBBLER LEGEND  |           |      |        |               |        |       |
|-----------|---|-----------|------|--------|---------------|--------|-------|
| SYMBOL    | MANUFACTURE / MODEL NO. / DESCRIPTION   | GPM       | PSI  | RADIUS | PREC.<br>RATE | DETAIL | SHEET |
| $\otimes$ | RAIN BIRD - 1806-SAM-PRS, W/ HUNTER MSBN-25Q BUBBLER NOZZLE.  | .25 (.50) | 30   | 1 FT   | 1.8           | Н      | L5.1  |
|           | NOTE: SINGLE SYMBOL ON PLANS REPRESENTS MINIMUM TWO (2) BUBBLE<br>(2) BUBBLERS REQUIRED FOR 24" BOX TREES AND SMALLER.<br>(3) BUBBLERS REQUIRED FOR 36" BOX TREES.<br>(4) BUBBLERS REQUIRED FOR 48" BOX AND LARGER TREES. | ERS PER 1 | TREE |        |               |        |       |

| (4) DODDELING REGOINED FOR 40 DOX AND LANGER INCLUS.                                   |
|--|
| PLACE BUBBLERS AT EDGE OF ROOTBALL ON OPPOSITE SIDES OF TREE WITHIN TREE WELL TYPICAL. |
|  |

| IRRIGATION EQUIPMENT LEGEND |   |       |      |  |  |  |  |  |
|-----------------------------|---|-------|------|--|--|--|--|--|
| SYMBOL                      | DETAIL  | SHEET |      |  |  |  |  |  |
|                             | SPEARS - 3621-xxxSR, THREADED, TRUE UNION 2000 STANDARD PVC BALL VALVE, LINE SIZE.  | I     | L5.1 |  |  |  |  |  |
| •                           | RAIN BIRD - PEB-PRS-D, SERIES (1" OR 1-1/2") PLASTIC REMOTE CONTROL VALVE, SIZE AS SHOWN.   | J     | L5.1 |  |  |  |  |  |
| 5                           | RAIN BIRD - XCZ-PRB-1XO-COM, SERIES (1" OR 1-1/2") DRIP VALVE CONTROL ZONE KIT<br>WITH PRESSURE REGULATING, QUICK-CHECK BASKET FILTER(S), SIZE AS SHOWN.<br>FOR DEMANDS (1 - 13) GPM. INSTALL XCZ-PRB-100-COM, 1" DRIP VALVE ASSEMBLY.<br>FOR DEMANDS (14 - 35) GPM. INSTALL XCZ-PRB-150-COM, 1-1/2" DRIP VALVE ASSEMBLY. | к     | L5.1 |  |  |  |  |  |
| ۲                           | RAIN BIRD - 33DLRC, 3/4" QUICK COUPLER VALVE WITH LOCKING COVER.  | L     | L5.1 |  |  |  |  |  |

| IRRIGATION CONTROLLER LEGEND |  |        |       |  |  |
|------------------------------|--|--------|-------|--|--|
| SYMBOL                       | MANUFACTURE / MODEL NO. / DESCRIPTION  | DETAIL | SHEET |  |  |
| С                            | SITEONE LANDSCAPE SUPPLY - GREEN TECH DIVISION:<br>IRRITROL - RAIN DIAL-R SERIES IRRIGATION CONTROLLER ASSEMBLY.   | м      | L5.1  |  |  |
|                              | SITEONE MODEL# CA14-IR2-12/LPP/CLW<br>CA14 = U.L. APPROVED, V.I.T. STRONG BOX, LD-18SW STAINLESS STEEL WALL MOUNT ENCLOSURE.<br>IR2 = IRRITROL, RAIN DIAL-R SERIES CONTROLLER.<br>12 = QUANTITY OF STATIONS.<br>LPP = CONTROLLER SURGE PROTECTION.<br>CLW = CLIMATE LOGIC WIRELESS RAIN/WEATHER SENSING SYSTEM.<br>NOTE: FOR FURTHER INFORMATION CONTACT JOHN ROSS WITH SITEONE LANDSCAPE SUPPLY-<br>GREEN TECH DIVISION, LAGUNA HILLS, CA. 800-427-0779 THE INSTALLATION OF CONTROLLER<br>ASSEMBLY MUST BE APPROVED AND CERTIFIED BY SITEONE LANDSCAPE SUPPLY. PROVIDE COPIES<br>OF CERTIFICATION TO THE OWNER'S AUTHORIZED REPRESENTATIVE AND LANDSCAPE ARCHITECT. |        |       |  |  |
| RS                           | SITEONE - WIRELESS RAIN/WEATHER SENSING SYSTEM. MOUNT WIRELESS SENSOR ON BUILDING<br>ROOF WHERE IT WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL AND CLEAR OF ANY<br>OBSTRUCTIONS. VERIFY EXACT LOCATION IN FIELD WITH OWNER PRIOR TO INSTALLATION.<br>RAIN SENSOR SUPPLIED AS PART OF CONTROLLER ASSEMBLY.   | М      | L5.1  |  |  |
| E                            | 120 VOLT ELECTRICAL POWER PROVIDED BY ELECTRICIAN, VERIFY ACTUAL LOCATION IN FIELD.<br>THE COORDINATION OF POWER AND CONNECTION OF CONTROLLER SHALL BE THE<br>RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.  | N/A    | N/A   |  |  |

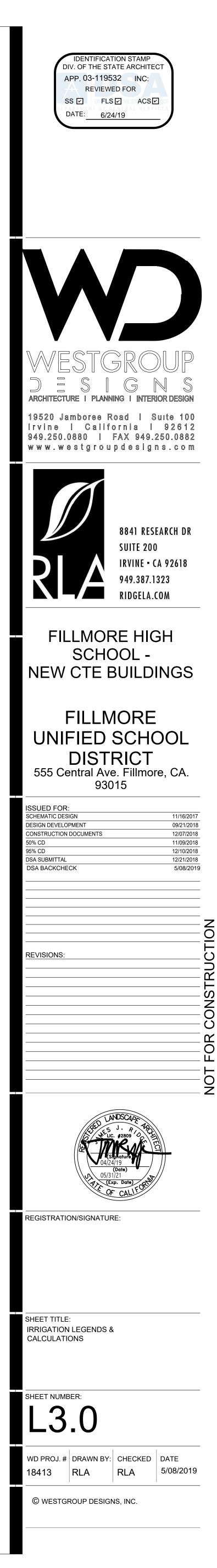
| SYMBOL                      | MANUFACTURE / MODEL NO. / DESCRIPTION  |         |      |  |
|-----------------------------|--|---------|------|--|
|                             | BURIED NON-PRESSURE LATERAL LINE PIPE:<br>SCH. 40 PVC PIPE FOR SIZES 3/4" TO 2-1/2".<br>MINIMUM PIPE SIZE SHALL BE 3/4" - SIZE LATERALS PER PLAN.  | N       | L5.2 |  |
|                             | BURIED PRESSURE IRRIGATION MAINLINE:<br>SCH. 40 PVC PIPE FOR MAINLINE SIZES (1-1/2" AND SMALLER).<br>CLASS 315 PVC PIPE FOR MAINLINE SIZES (2" AND LARGER).  | N       | L5.2 |  |
| - <del>2/-/-/-/-/-/-/</del> | SLEEVING - SCH 40 PVC PIPE, EXTEND 12" BEYOND EDGE OF HARDSCAPE. SLEEVE SHALL BE<br>MINIMUM TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE CARRIED, MINIMUM 2" SIZE. PLACE<br>BELOW ALL PAVING, HARDSCAPE, ETC., AND AS DIRECTED BY OWNER'S AUTHORIZED<br>REPRESENTATIVE. EXTEND 12" BEYOND EDGE OF HARDSCAPE. SLEEVE LOCATIONS SHALL BE<br>MARKED AT EACH END AT THE TIME OF INSTALLATION WITH A PAINTED SPOT OR OTHER SIMILAR<br>MARKING ON THE BACK OF THE CURB. EXACT SLEEVE LOCATIONS SHALL BE RECORDED ON RECORD<br>DRAWINGS WITH DIMENSIONING FOR IRRIGATION AS-BUILT PLANS PRIOR TO BACKFILL. | 0       | L5.2 |  |
| /                           | CONTROL WIRE CONDUIT - SCH. 40 PVC PIPE, INSTALL UNDER ALL PAVING / HARDSCAPE AREAS.<br>CONDUIT SHALL BE MINIMUM TWICE THE DIAMETER OF WIRE BUNDLE CARRIED, MINIMUM 2" SIZE.   | 0       | L5.2 |  |
| NO SYMBOL                   | IRRIGATION CONTROL WIRE #14UF AWG DIRECT BURIAL (U.L. APPROVED)  | N, O, P | L5.2 |  |
| NO SYMBOL                   | 3M - DBR/Y-6 DIRECT BURIAL WIRE CONNECTORS FOR USE ON ALL WIRE CONNECTIONS.  | Р       | L5.2 |  |

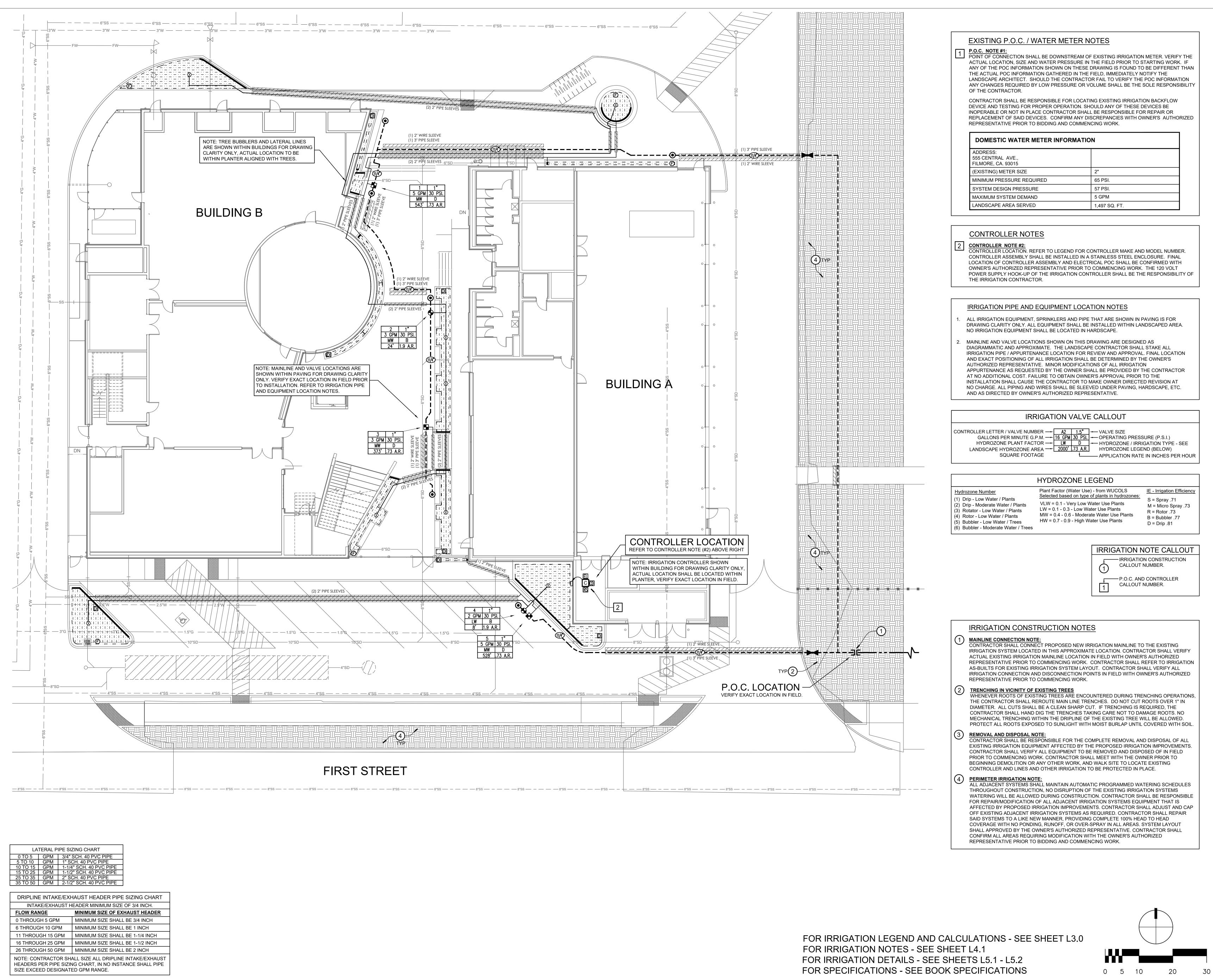
WIRE TWISTING TOOL WITH A MAXIMUM OF TWO WIRES PER TWIST. REFER TO MANUFACTURE RECOMMENDATION FOR PROPER WIRE CONNECTIONS.

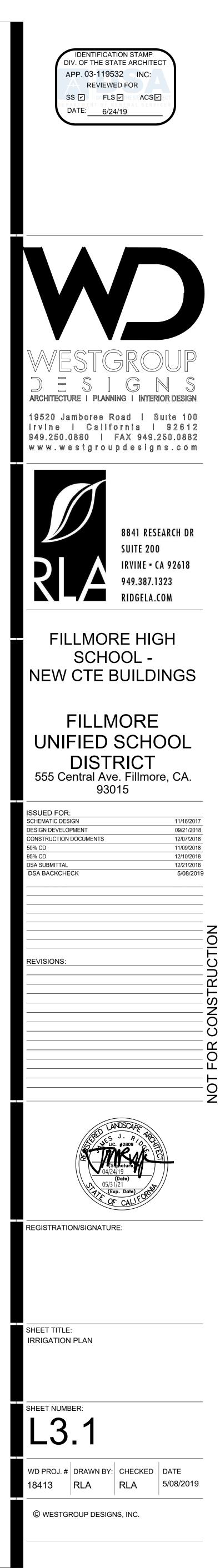
SPLICING RECOMMENDATIONS:

WIRE SPLICES ARE THE WEAK LINK OF ANY ELECTRICAL CIRCUIT. IT IS ESPECIALLY IMPORTANT TO MAKE PROPER JOINTS IN IRRIGATION SYSTEMS BECAUSE THE JOINTS ARE EXPOSED TO WET AND DAMP ENVIRONMENTS THAT CAN CAUSE CORROSION OF THE COPPER CONDUCTOR, AND PREMATURE FAILURE. PAIGE ELECTRIC RECOMMENDS THE STRICT USE OF MODEL DBR/Y-6, AS MANUFACTURED BY THE 3M COMPANY (PAIGE SPECIFICATION P7364D)

| EXISTING EQUIPMENT LEGEND |  |  |  |  |
|---------------------------|--|--|--|--|
| SYMBOL                    | MANUFACTURE / MODEL NO. / DESCRIPTION  |  |  |  |
| NO SYMBOL                 | (EXISTING) DOMESTIC WATER IRRIGATION METER. VERIFY SIZE, LOCATION, AND STATIC WATER PRESSURE IN FIELD.   |  |  |  |
| NO SYMBOL                 | (EXISTING) R/P BACKFLOW PREVENTION ASSEMBLY. VERIFY AND TEST FOR PROPER OPERATION. HAVE R/P TESTED<br>BY DISTRICT APPROVED BACKFLOW ASSEMBLY TECHNICIAN FOR CERTIFICATION. REPAIR OR REPLACE IF DAMAGED.   |  |  |  |
|                           | CONNECTION OF NEW MAINLINE TO EXISTING MAINLINE, VERIFY SIZE, LOCATION AND CONNECTION POINTS IN FIELD.   |  |  |  |
|                           | (EXISTING) IRRIGATION MAINLINE SHOWN FOR REFERENCE ONLY. PROTECT IN PLACE, REPAIR ANY DAMAGE DUE TO CONSTRUCTION. VERIFY SIZE, TYPE, AND EXACT LOCATION IN FIELD. IF CONTRACTOR IS NOT ABLE TO LOCATE EXISTING MAINLINE CONTRACTOR SHALL PROVIDE AND INSTALL NEW MAINLINE AND MAKE ALL NECESSARY CONNECTIONS FOR PROPER OPERATION OF NEW AND EXISTING IRRIGATION SYSTEM. |  |  |  |
|                           | (EXISTING) IRRIGATION SYSTEM TO BE ADJUSTED AND OR MODIFIED. CUT AND CAP EXISTING SYSTEM AS<br>REQUIRED FOR PROPER OPERATION. REPAIR OR REPLACE ANY DAMAGED EQUIPMENT. PROVIDE 100% COVERAGE<br>WITH NO PONDING, RUNOFF OR OVER SPRAY.   |  |  |  |







| RRIGATION SYSTEM MAINTENANCE SCHEDULE   |
|---|
| MAINTENANCE OF THE IRRIGATION SYSTEM IS A NECESSARY AND CONTINUING PROCESS<br>NVOLVING MONITORING, ADJUSTMENT AND REPAIR. REPAIRS CAN BE MINIMIZED BY INSTITUTING<br>A MAINTENANCE PROGRAM. SOME IRRIGATION SYSTEM MAINTENANCE ACTIVITIES NEED TO BE<br>DONE AT REGULAR PERIODIC INTERVALS. OTHERS PERFORMED ON A NORMAL BASIS. |
| WEEKLY<br>* TRIM FOLIAGE FROM AROUND SPRINKLER HEADS AS NECESSARY TO AVOID SPRAY BLOCKAGE.<br>* BRIEFLY ACTIVATE EACH CONTROL VALVE AND OBSERVE SPRINKLERS FOR PROPER COVERAGE<br>AND OPERATION AND MISALIGNED BY MOVING OPERATIONS   |

AND OPERATION AND MISALIGNED BY MOVING OPERATIONS. \* CHECK FOR IRRIGATION OVER SPRAY OR RUNOFF AND CORRECT AS NEEDED. \*CHECK ALL DRIP LINES FOR CLOGGED EMITTERS AND CLEAN OR REPLACE AS NEEDED.

\* ADJUST PROGRAMMING OF THE AUTOMATIC IRRIGATION CONTROLLER(S) BASED ON OBSERVED FIELD CONDITIONS. \* CHECK THE SOIL MOISTURE WITH AN AUGER AND EVALUATE WITH REGARD TO DURATION AND

FREQUENCY OF THE IRRIGATION CYCLES. FINE TUNE SYSTEMS WEEKLY OR BIWEEKLY AND MAKE CORRECTIONS AS NECESSARY. KEEP RECORDS OF ALL INFORMATION. MAINTAIN PET COCKS OF VALVE IN GOOD OPERATIONAL CONDITION, PET COCKS SHALL BE ONLY "FINGER TIGHT" WHEN IN THE CLOSED POSITION. \* CONTROLLER OPERATION: CHECK FIELD VALVES FOR SEQUENCING, TIMING, ACCURACY, AND

GENERAL FUNCTION AT THE BEGINNING OF EACH WATERING SEASON. \* WALK AND CHECK ALL ON GRADE PIPE, CHECK FOR BREAKS OR LEAKS, CHECK STAKING AND POSITION OF ALL PIPE AND SPRINKLER HEADS INSTALLED ON SLOPE. \* FLUSH ALL DRIP SYSTEM LATERAL LINES AT EACH END OF DRIP ZONES.

\* CHECK AND CLEAN ALL DRIP REMOTE CONTROL BASKET FILTERS.

CONTINUALLY

\* CLEAN SOIL AND DEBRIS FROM SPRINKLER BODIES, NOZZLES AND DRIP SYSTEMS TO ENSURE PROPER WATER DISCHARGE. \* STRAIGHTEN SPRINKLERS AND ADJUST NOZZLES TO INSURE PROPER WATER DISCHARGE. \* MAINTAIN ALL SPRINKLERS IN GOOD OPERATING ORDER, INCLUDING PROPER COVERAGE

ADJUSTMENTS. REPAIR OR REPLACE SPRINKLERS AS NEEDED. \* MAINTAIN ELECTRIC CONTROL VALVE BOXES FREE OF DIRT AND DEBRIS.

\* ADJUST WATER APPLICATIONS ACCORDING TO CHANGES IN THE WEATHER. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE RESULTING FROM EITHER OVER OR UNDER-WATERING.

AS NEEDED

\* EXTEND THE HEIGHT OF SPRINKLERS AS NECESSARY IN SHRUB AREAS TO AVOID INTERFERENCE FROM ADJACENT FOLIAGE.

\* THE STAFF SHALL REPAIR OR REPLACE ANY DAMAGED OR MALFUNCTIONING EQUIPMENT WITHIN ONE WEEK OF DETECTION. \* TURN OFF CONTROLLERS TEMPORARILY DURING PERIODS OF RAINFALL.

EQUIPMENT REPLACEMENT \* REPLACE ANY IRRIGATION VALVES, SPRINKLERS, DRIP LINE OR OTHER COMPONENTS WITH REPLACEMENT OF THE EXACT TYPE, GPM AND MANUFACTURE AS CALLED FOR IN THE ORIGINAL IRRIGATION PLANS.

### MAJOR REPAIRS

\* WHERE CONDITIONS DEVELOP WHICH CAN NOT BE HANDLED BY ROUTINE MAINTENANCE, THEY SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER. \* ALL DAMAGE NOT RESULTING FROM CONTRACTOR'S ACTIVITIES OR NEGLIGENCE SHOULD BE BROUGHT TO THE OWNER'S ATTENTION.

\* DURING TIMES WHEN THE WATER SUPPLY IS CUT OFF OR THE IRRIGATION SYSTEM IS OTHERWISE INOPERABLE, THE LANDSCAPE SHOULD BE CAREFULLY MONITORED FOR SIGNS OF WATER STRESS. START A HAND WATERING PROGRAM IMMEDIATELY FOR ALL STRESSED LANDSCAPES. NOTIFY OWNER IN WRITING IF THIS OCCURS.

LANDSCAPE IRRIGATION AUDIT SCHEDULE

\* RECORD ALL PERFORMED IRRIGATION AUDITS

LANDSCAPE IRRIGATION AUDITS SHALL BE PERFORMED IN ACCORDANCE WITH THE STATE OF CALIFORNIA WATER MANAGEMENT PROGRAM AS DESCRIBED IN THE "LANDSCAPE IRRIGATION AUDITOR HANDBOOK".

\* AUDITS SHALL BE CONDUCTED BY CERTIFIED LANDSCAPE IRRIGATION AUDITOR \* THE FIRST LANDSCAPE IRRIGATION AUDIT SHALL BE PERFORMED PRIOR TO ACCEPTANCE AND SHALL BE REPEATED EVERY FIVE YEARS THEREAFTER.

KEEPING OF RECORDS

\* THE CONTRACTOR SHALL KEEP PERMANENT RECORDS OF ALL PERFORMED MAINTENANCE TASKS. \* RECORD ALL WATER USAGE AND CHANGES IN THE CONTROLLER TIMING. INCLUDING OFF TIMES

DURING RAINFALL

\* RECORD ALL ACTIVITIES PERFORMED DURING THE QUARTERLY REVIEW. \* RECORD ALL PROPOSED AND EXECUTED REPAIRS.

\* RECORD ALL TIMES WHEN THE IRRIGATION SYSTEMS ARE NOT OPERABLE.

# COLOR CHART NOTE:

AS A REQUIREMENT THE AUTOMATIC CONTROLLER SHALL CONSIST OF A NEATLY DRAWN 11"x17" LAMINATED IRRIGATION PLAN AND COLORED ZONE MAP LAYOUT CHART. LAYOUT CHART SHALL BE COLOR CODED INDICATING LOCATION OF ALL CONTROLS, PIPING, SLEEVES, HEADS (INCLUDING TYPE), VALVES AND CONNECTION TO WATER SERVICE.

### RRIGATION WATER AUDIT NOTE

LANDSCAPE CONTRACTOR TO PROVIDE AN IRRIGATION AUDIT, IN COMPLIANCE WITH THE STATE OF CALIFORNIA LANDSCAPE WATER MANAGEMENT PROGRAM, SHALL BE PERFORMED BY A CERTIFIED IRRIGATION AUDITOR, OTHER THAN THE DESIGNER OR INSTALLER, PRIOR TO TURNOVER OF PROJECT AND EVERY 5 YEARS THEREAFTER. A SCHEDULE SHALL BE ESTABLISHED AND SUBMITTED TO THE CITY OF AT LEAST ONCE EVERY FIVE YEARS AS REQUIRED BY THE CITY. THE REGULAR MAINTENANCE SCHEDULE COUPLED WITH THE AUDITS SHOULD HELP TO MAINTAIN THE IRRIGATION EFFICIENCY AS INTENDED IN THE DESIGN. IRRIGATION SYSTEM SHALL BE TESTED AND MAINTAINED ON A MONTHLY BASIS BY THE MAINTENANCE STAFF.

AT A MINIMUM. AUDITS SHALL BE IN ACCORDANCE WITH THE LATEST STATE OF CALIFORNIA LANDSCAPE WATER MANAGEMENT PROGRAM AS DESCRIBED IN THE LATEST LANDSCAPE IRRIGATION AUDITOR HANDBOOK, PREPARED FOR THE CALIFORNIA DEPARTMENT OF WATER RESOURCES, WATER CONSERVATION OFFICE, THE ENTIRE DOCUMENT, WHICH IS HEREBY INCORPORATED BY REFERENCE.

THE SCHEDULE SHALL PROVIDE FOR LANDSCAPE IRRIGATION AUDITS TO BE CONDUCTED BY A QUALIFIED INDIVIDUAL, OTHER THAN THE DESIGNER OR INSTALLER, AS DETERMINED BY THE DIRECTOR AT LEAST ONCE EVERY FIVE YEARS IN ACCORDANCE WITH THE REQUIREMENTS OF THE COUNTY.

CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS, PROPERTY LINES, DIMENSIONS, ETC. PRIOR TO COMMENCING WORK. ALL EXISTING IRRIGATION SYSTEMS SHALL BE VERIFIED IN THE FIELD AT START OF CONSTRUCTIONS. ALL EXISTING MAINLINES, RCVS, BACKFLOW DEVICES, CONTROLLERS, METERS, SERVICE LINES, ETC. SHALL BE VERIFIED IN FIELD. ALL EXISTING IRRIGATION EQUIPMENT SHALL BE CLEARLY INDICATED INCLUDING SIZES AND MODEL NUMBERS TO SCALE ON AN ACCURATE BASE DRAWING AND SUBMITTED AS A SHOP DRAWING. SAID SHOP DRAWING SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT, AND OWNER'S AUTHORIZED REPRESENTATIVE FOR REVIEW AND APPROVAL. NOTIFY THE OWNER'S AUTHORIZED REPRESENTATIVE IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND. NO WORK SHALL PROCEED WITHOUT APPROVAL OF SAID SHOP DRAWINGS.

ALL EQUIPMENT LOCATIONS AND PIPE ROUTING SHALL BE STAKED IN FIELD FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. ALL LAYOUT SHALL BE AS APPROVED BY, LANDSCAPE ARCHITECT, AND OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION. NO EQUIPMENT SHALL BE INSTALLED WITHOUT APPROVAL OF LAYOUT.

CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE INSTALLATION OF PROPOSED IRRIGATION EQUIPMENT AND RELATED EQUIPMENT, INCLUDING BUT NOT LIMITED TO R.C.V. CONTROL WIRES, ELECTRICAL WIRES, CONDUIT, REMOTE CONTROL VALVES, ETC. ALL LAYOUT AND LOCATIONS SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL AND DISPOSAL OF ALL EXISTING IRRIGATION EQUIPMENT AFFECTED BY THE PROPOSED IRRIGATION IMPROVEMENTS. CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE REMOVED AND DISPOSED OF IN FIELD PRIOR TO COMMENCING WORK.

CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR/MODIFICATION OF ALL ADJACENT IRRIGATION SYSTEM EQUIPMENT THAT IS AFFECTED BY PROPOSED IRRIGATION IMPROVEMENTS. CONTRACTOR SHALL REPAIR SAID SYSTEMS TO A LIKE NEW MANNER, PROVIDING COMPLETE 100% HEAD TO HEAD COVERAGE IN ALL AREAS WITH SYSTEM LAYOUT AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL CONFIRM ALL AREAS REQUIRING MODIFICATION WITH THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO BIDDING WORK AND PRIOR TO COMMENCING WORK.

CONTRACTOR SHALL ADJUST AND CAP OFF EXISTING ADJACENT IRRIGATION SYSTEM AS REQUIRED. SYSTEM SHALL PROVIDE COMPLETE 100% HEAD TO HEAD COVERAGE IN ALL AREAS AS APPROVED BY OWNER'S AUTHORIZED REPRESENTATIVE. ALL LAYOUT SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.

CONTRACTOR SHALL REFER TO CORRESPONDING ON-SITE WATER AND SEWER PLAN FOR UNDERLYING WATERLINES, EASMENTS, AND OTHER RELATED EQUIPMENT. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS IN FIELD WITH OWNERS AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS TO EXISTING IRRIGATION, LANDSCAPE AND HARDSCAPE DAMAGED BY NEW CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.

10. CONTRACTOR SHALL MEET WITH THE OWNER PRIOR TO BEGINNING DEMOLITION OR ANY OTHER WORK, AND WALK SITE TO LOCATE EXISTING CONTROLLER AND LINES AND OTHER IRRIGATION TO BE PROTECTED IN PLACE.

12. ANY EXISTING IRRIGATION CONTROL VALVES CONNECTED TO THE EXISTING CONTROLLER SHALL BE RECONNECTED TO THE NEW CONTROLLER. CONFIRM PROPER CONTROLLER OPERATION AND INSTALLATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK AND UPON COMPLETION OF WORK.

13. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE ADJUSTMENT/MODIFICATION OF EXISTING IRRIGATION SYSTEM WITHIN THIS AND OTHER AREAS AFFECTED BY THE PROPOSED IMPROVEMENTS. ALL LAYOUT SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.

14. NO DISRUPTION OF THE EXISTING IRRIGATION SYSTEMS WATERING WILL BE ALLOWED DURING CONSTRUCTION. ALL ADJACENT SYSTEM SHALL MAINTAIN AUTOMATIC PROGRAMMED WATERING SCHEDULES THROUGHOUT CONSTRUCTION.

15. CONTRACTOR SHALL OBTAIN EXISTING IRRIGATION AS-BUILT RECORD DRAWINGS FOR ADJACENT IRRIGATED AREAS PRIOR TO STARTING WORK. ALL EXISTING IRRIGATION EQUIPMENT LOCATION, SIZES, AND CONDITIONS SHALL BE VERIFIED IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE AT START OF WORK.

AS-BUILT NOTE AS-BUILT RECORD DRAWINGS WERE NOT AVAILABLE AT TIME OF SYSTEM DESIGN. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXISTING IRRIGATION SYSTEM AS-BUILTS FROM OWNER PRIOR TO COMMENCING WORK. CONTRACTOR SHALL CONFIRM ALL CONNECTION POINTS AND EXISTING IRRIGATION SYSTEMS AFFECTED IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PROPOSED IRRIGATION SYSTEM CONNECTION POINT AND CONTROLLER LOCATION FOR APPROVAL BY OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK. ALL LABOR AND MATERIALS REQUIRED TO IRRIGATE AREAS WITHIN THE LIMITS OF WORK AND TO ADJUST AREAS ADJACENT TO THE LIMITS OF WORK SHALL BE INCLUDED AS PART OF THIS CONTRACT. NO ADDITIONAL COSTS WILL BE ALLOWED FOR THE PROPOSED IRRIGATION IMPROVEMENTS OR ADJUSTMENT OF THE EXISTING ADJACENT IRRIGATION SYSTEMS.

NOTE: "CONTRACTOR TO REPAIR OR REPLACE ALL LANDSCAPE AND IRRIGATION MISSING OR NOT WORKING TO A FULLY FUNCTIONING SYSTEM WITH 100% COVERAGE". ALL EXISTING SYSTEMS SHALL BE REPAIRED TO PREVENT OVERSPRAY OR RUNOFF ONTO SIDEWALKS OR STREETS.

### Existing Irrigation Notes

THE CONTRACTOR MUST FAMILIARIZE HIMSELF WITH THE EXISTING IRRIGATION AND PLANTING ON PROPERTY. ANY DAMAGE OR ADJUSTMENTS REQUIRED INCLUDING REPLACING OR RELOCATING IRRIGATION LINES, HEADS, VALVES, WIRES OR ANY UTILITY THAT OCCURS ON THE PARCEL DUE TO THE CONSTRUCTION OF THIS PROJECT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER. THE OWNER'S REPRESENTATIVE MUST REVIEW ANY REQUIRED MODIFICATIONS TO THESE AREAS PRIOR TO COMMENCING WORK. THE CONTRACTOR MUST NOTIFY THE OWNER'S AUTHORIZED REPRESENTATIVE OF THESE CONDITIONS OR ANY DISCREPANCIES PRIOR TO COMMENCING WORK.

1. CONTRACTOR SHALL PROVIDE FOR THE IRRIGATION OF EXISTING PLANT MATERIAL THROUGHOUT THE CONSTRUCTION PROCESS. ANY DAMAGE DUE TO CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY TO PREVENT ANY LAPSE IN IRRIGATION OF THE EXISTING PLANT MATERIAL. ANY PLANT MATERIAL AND/OR IRRIGATION DAMAGED AS PART OF CONSTRUCTION SHALL BE REPAIRED TO A LIKE NEW CONDITION AS PART OF CONTRACT.

16. WHENEVER ROOTS OF EXISTING TREES ARE ENCOUNTERED DURING TRENCHING OPERATIONS, THE CONTRACTOR SHALL REROUTE MAIN LINE TRENCHES. DO NOT CUT ROOTS OVER 1" IN DIAMETER. ALL CUTS SHALL BE A CLEAN SHARP CUT. IF TRENCHING IS REQUIRED, THE CONTRACTOR SHALL HAND DIG THE TRENCHES TAKING CARE NOT TO DAMAGE ROOTS. NO MECHANICAL TRENCHING WITHIN THE DRIPLINE OF THE EXISTING TREE WILL BE ALLOWED. PROTECT ALL ROOTS EXPOSED TO SUNLIGHT WITH MOIST BURLAP UNTIL COVERED WITH SOIL.

Irrigation Installation Notes

THE CONTRACTOR SHALL OBTAIN, COORDINATE AND PAY FOR ANY AND ALL PERMITS AND ALL INSPECTIONS AS REQUIRED.

- THE CONTRACTOR SHALL BE RESPONSIBLE AND LIABLE FOR ANY AND ALL DAMAGES TO OPERATIONS OR WORK OF OTHER CONTRACTORS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ACTIVITIES WITH ALL AGENCIES AND OTHER TRADES.
- THE CONTRACTOR SHALL BE RESPONSIBLE AND LIABLE FOR ANY ENCROACHMENT INTO ADJACENT PROPERTY, R.O.W.'S, EASEMENTS, SETBACKS OR ANY OTHER LEGAL PROPERTY RESTRICTIONS EITHER MARKED OR UNMARKED
- 4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL UNDERGROUND UTILITIES. CONTRACTOR SHALL REPAIR OR REPLACE, AT NO ADDITIONAL COST TO THE OWNER, ANY DAMAGE TO UNDERGROUND UTILITIES THAT MAY OCCUR. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING PLANS BEFORE BEGINNING WORK.
- 6. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN ON PLANS AT THE SITE PRIOR TO COMMENCEMENT OF ANY WORK. ALL DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO PROJECT LANDSCAPE ARCHITECT FOR DIRECTION. ANY CONTINUATION OF WORK IS AT THE CONTRACTOR'S RISK AND EXPENSE
- 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 THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE PROJECT LANDSCAPE ARCHITECT FOR DIRECTION.
- BEFORE ANY WORK COMMENCES, A CONFERENCE SHALL BE HELD WITH THE CITY'S PUBLIC WORKS INSPECTOR, LANDSCAPE ARCHITECT AND THE CONTRACTOR, REGARDING GENERAL REQUIREMENTS OF THIS WORK.
- INSTALL ALL IRRIGATION COMPONENTS ACCORDING TO LOCAL CODES AND ORDINANCES. 10. THE IRRIGATION WATER METER IS TO BE PROVIDED BY THE OWNER UNLESS SHOWN OTHERWISE ON THE PLANS. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ALL IRRIGATION EQUIPMENT DOWNSTREAM OF THE POINT
- OF CONNECTION (P.O.C.) AT THE IRRIGATION WATER METER. 11. ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- 12. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS (INCLUDING EXISTING AND/OR NEW PLANT MATERIAL), GRADE DIFFERENCES OR DIFFERENCES IN THE AREA'S DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE
- ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY. 13. THE WORK SHOWN ON THESE PLANS IS DIAGRAMMATIC; ALL ITEMS, I.E. CONTROLLERS, VALVES, MAINLINES, SLEEVES, WIRES, IRRIGATION HEADS, ETC. ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. DO NOT SCALE DIMENSIONS. DETAIL DRAWINGS MAY CLARIFY LOCATIONS OF SOME ITEMS. THE CONTRACTOR SHALL NOT
- LOCATE ANY ITEMS WHERE IT IS OBVIOUS THAT THEY ARE IN CONFLICT WITH UNDERGROUND UTILITIES, STRUCTURES, OTHER IMPROVEMENTS, OR VEHICULAR OR PEDESTRIAN SAFETY CONSIDERATIONS. 14. CONTROLLER LOCATIONS ARE APPROXIMATE. FINAL LOCATION OF THE AUTOMATIC CONTROLLER AND THE BACKFLOW DEVICE SHALL BE APPROVED BY THE OWNER AND THE LANDSCAPE ARCHITECT PRIOR TO
- INSTALLATION. 15. ALL CONSTANT PRESSURE LINES SHALL BE TESTED FOR 3 HOURS UNDER A HYDROSTATIC PRESSURE OF 150 POUNDS PER SQUARE INCH AND BE PROVEN WATERTIGHT. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT FOR HYDROSTATIC TESTS. HYDROSTATIC TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE LANDSCAPE ARCHITECT, CITY PUBLIC WORKS INSPECTOR OR, IF APPROVED BY LANDSCAPE ARCHITECT, CONTRACTOR MAY E-MAIL DIGITAL PHOTOGRAPHS OF THE PRESSURE GAUGE TO THE LANDSCAPE ARCHITECT AT BEGINNING AND END
- OF TEST PERIOD. 16. 120-VOLT ELECTRICAL POWER OUTLET AT THE AUTOMATIC CONTROLLER LOCATION SHALL BE PROVIDED PER THE ELECTRICAL ENGINEER'S PLANS AND SPECIFICATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ELECTRICAL SERVICE WITH THE GENERAL CONTRACTOR AND TO MAKE THE FINAL HOOK-UP FROM THE ELECTRICAL OUTLET TO THE AUTOMATIC CONTROLLER.
- 17. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
- 18. BACKFLOW DEVICE SHALL BE INSTALLED IN GROUND COVER AREA WHEREVER POSSIBLE. FINAL LOCATION SHALI BE DETERMINED BY THE OWNER'S AUTHORIZED REPRESENTATIVE AND MAY VARY FROM THAT INDICATED ON THE DRAWINGS 19. QUICK COUPLER VALVES, CONTROL VALVES, AND SHUT-OFF VALVES SHALL BE INSTALLED IN GROUND COVER
- AREAS WHEREVER POSSIBLE. 20. PIPING AND WIRE CONDUIT PENETRATIONS THROUGH WALLS AND INSTALLATION EQUIPMENT UNDER PAVING SHALL BE INSTALLED IN SCH 40 PVC SLEEVES, AS CALLED OUT ON PLANS, OR AS PER LOCAL CODES AND MUST BE
- COORDINATED WITH THE GENERAL CONTRACTOR AND CONTRACTORS OF ALL VARIOUS TRADES THAT MAY BE INVOLVED TO ELIMINATE PROBLEMS THAT MAY ARISE FROM INACCESSIBILITY OR DAMAGE TO ANOTHER TRADE'S WORK. PIPING AND WIRE CONDUIT PENETRATIONS THROUGH EXISTING WALLS SHALL BE CORE DRILLED AND SLEEVED PER ABOVE, UNLESS AN EXISTING SLEEVE IS AVAILABLE FOR RE-USE WHICH WILL NOT SIGNIFICANTLY AFFECT THE SYSTEM DESIGN. 21. USE CHECK VALVES AS REQUIRED TO ELIMINATE LOW HEAD DRAINAGE
- 22. THE CONTRACTOR SHALL INSTALL KBI SERIES ANTI-DRAIN VALVES ON ALL LATERALS IN AREAS WHERE SLOPE OF GRADE EXCEEDS 4:1, WHERE POST VALVE SHUT-OFF DRAINING OF THE IRRIGATION OCCURS, OR AS DIRECTED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
- AT NO TIME SHALL THE CONTRACTOR APPLY WATER AT A RATE OF FREQUENCY WHICH CAUSES RUNOFF OR OVER-SATURATION OF THE SOIL. 24. THE CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO ADJACENT PAVING, WALLS OR OTHER HARDSCAPE ELEMENTS TO THE EXTENT
- POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT THE EXISTING SITE CONDITIONS AND ADJUSTING THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING FLOW FOR EACH SYSTEM. 25. WHEN RADIUS OF SPRINKLER HEADS AS REQUIRED FOR PROPER COVERAGE IS LESS THAN RADIUS SHOWN ON
- LEGEND. THE CONTRACTOR SHALL EQUIP SPRINKLER HEAD WITH A PRESSURE COMPENSATING SCREEN (PCS) FOR LOW FLOW AND RADIUS CONTROL. 26. USE ADJUSTABLE ARC NOZZLES FOR ALL HEADS LOCATED IN AREAS WHERE A STANDARD ARC PATTERN SPRAYS
- OVER ONTO ADJACENT PAVING, WALLS OR OTHER HARDSCAPE ELEMENTS. ADJUSTABLE ARC NOZZLE SHOULD HAVE THE SAME RADIUS OF THROW AS THE NOZZLE BEING REPLACED. 27. NO OVERSPRAY OR LOW HEAD DRAINAGE SHALL BE ALLOWED. 28. WHEN VERTICAL OBSTRUCTIONS (LIGHT POLES, FIRE HYDRANTS, TREES, ETC.) INTERFERE WITH THE SPRAY
- PATTERN OF THE SPRINKLER HEADS SO AS TO PREVENT PROPER COVERAGE, THE CONTRACTOR SHALL FIELD ADJUST THE SPRINKLER SYSTEM BY INSTALLING A QUARTER CIRCLE OR HALF CIRCLE SPRINKLER HEAD ON EACH SIDE OF THE OBSTRUCTION SO AS TO PROVIDE PROPER COVERAGE. ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- SHALL BE PERMITTED, BUT SUBSTITUTIONS OF LARGER SIZES MAY BE APPROVED. ALL DAMAGED AND REJECTED PIPE SHALL BE REMOVED FROM THE SITE IMMEDIATELY UPON REJECTION. 30. ALL ELECTRICAL CONTROL WIRE SHALL BE DIRECT BURIAL, #14 UL APPROVED, IN AN 18" DEEP TRENCH, INSTALLED
- UNDERNEATH AND ATTACHED WITH PLASTIC TIE 10' O.C. TO THE MAINLINE PIPE WHEN RUN IN THE SAME TRENCH. WIRE CONNECTORS SHALL BE PENTITE OR DRI-SPLICE ONLY. COLORS FOR CONTROL WIRE SHALL BE AS FOLLOWS: A. COMMON WIRE - WHITE WITH COLORED STRIPE (FOR MULTIPLE CONTROLLERS USE DIFFERING COLOR STRIPE PER CONTROLLER)
- B. EXTRA COMMON WIRES, PROVIDE A MINIMUM THREE (3) EACH DIRECTION AND MINIMUM ONE (1) TO EACH LEG OF MAINLINE PER CONTROLLER. LEAD/HOT WIRE - BLACK
- EXTRA LEAD WIRES, PROVIDE A MINIMUM OF TWO (2) EXTRA SPARE LEAD WIRES FOR EACH GROUP OF TEN (10) CONTROL VALVES AND ALSO TO EACH LEG OF MAINLINE END RUN - SPARE LEAD WIRES SHALL BE A DIFFERENT COLOR THAN CONTROL VALVE WIRES. LABEL ALL SPARE WIRES "SPARE" AT BOTH ENDS. 31. ALL AUTOMATIC CONTROLLER PROGRAMS MUST BE SET TO OPERATE BETWEEN THE HOURS OF 10 P.M. AND 6 A.M. 32. THE ENTIRE SPRINKLER SYSTEM SHALL BE GUARANTEED BY THE CONTRACTOR AS TO MATERIAL AND WORKMANSHIP, INCLUDING THE SETTLING OF BACKFILLED AREAS AND TRENCHES FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF FINAL ACCEPTANCE OF THE WORK. SHOULD ANY OPERATION DIFFICULTIES IN CONNECTION WITH THE SPRINKLER SYSTEM DEVELOP WITHIN THE SPECIFIED GUARANTEE PERIOD, WHICH IN THE
- OPINION OF THE OWNER MAY BE DUE TO INFERIOR MATERIAL AND/OR WORKMANSHIP, SAID DIFFICULTIES SHALL BE IMMEDIATELY CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST 3. THE CONTRACTOR SHALL AT ALL TIMES PROTECT HIS WORK FROM DAMAGE AND THEFT AND REPLACE ALL DAMAGED OR STOLEN PARTS AT HIS EXPENSE UNTIL THE WORK IS ACCEPTED IN WRITING BY THE OWNER.
- DEMAND SHOWN ON THE IRRIGATION DRAWINGS AT EACH POINT OF CONNECTION. THE CONTRACTOR SHALL VERIFY WATER PRESSURE IN THE FIELD PRIOR TO CONSTRUCTION TO DETERMINE IF IT IS SUFFICIENT TO OPERATE SYSTEMS AS DESIGNED. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE PROJECT LANDSCAPE ARCHITECT. IN THE EVENT PRESSURE DIFFERENCES ARE NOT REPORTED PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY AT NO
- ADDITIONAL COST TO THE OWNER. 35. AFTER INSTALLATION OF THE IRRIGATION SYSTEM IS COMPLETED. THE CONTRACTOR SHALL PERFORM A COVERAGE TEST IN THE PRESENCE OF THE LANDSCAPE ARCHITECT AND CITY PUBLIC WORKS INSPECTOR TO DETERMINE IF THE IRRIGATION COVERAGE FOR PLANTING AREAS IS ADEQUATE AND COMPLETE. FURNISH ALL MATERIALS AND PERFORM ALL WORK REQUIRED TO CORRECT ANY INADEQUACIES OF COVERAGE DUE TO DEVIATIONS FROM THE PLANS OR BECAUSE DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS

23. THE CONTRACTOR SHALL ONLY APPLY SUFFICIENT WATER TO PROMOTE HEALTHY GROWTH OF PLANT MATERIAL.

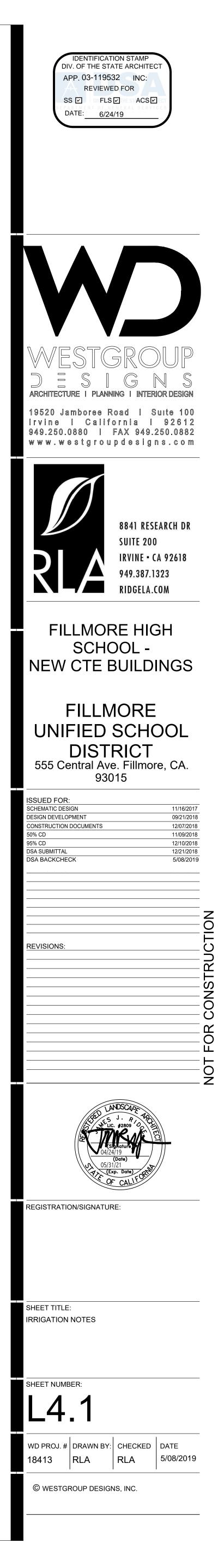
29. PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWING. NO SUBSTITUTIONS OF SMALLER PIPE SIZES

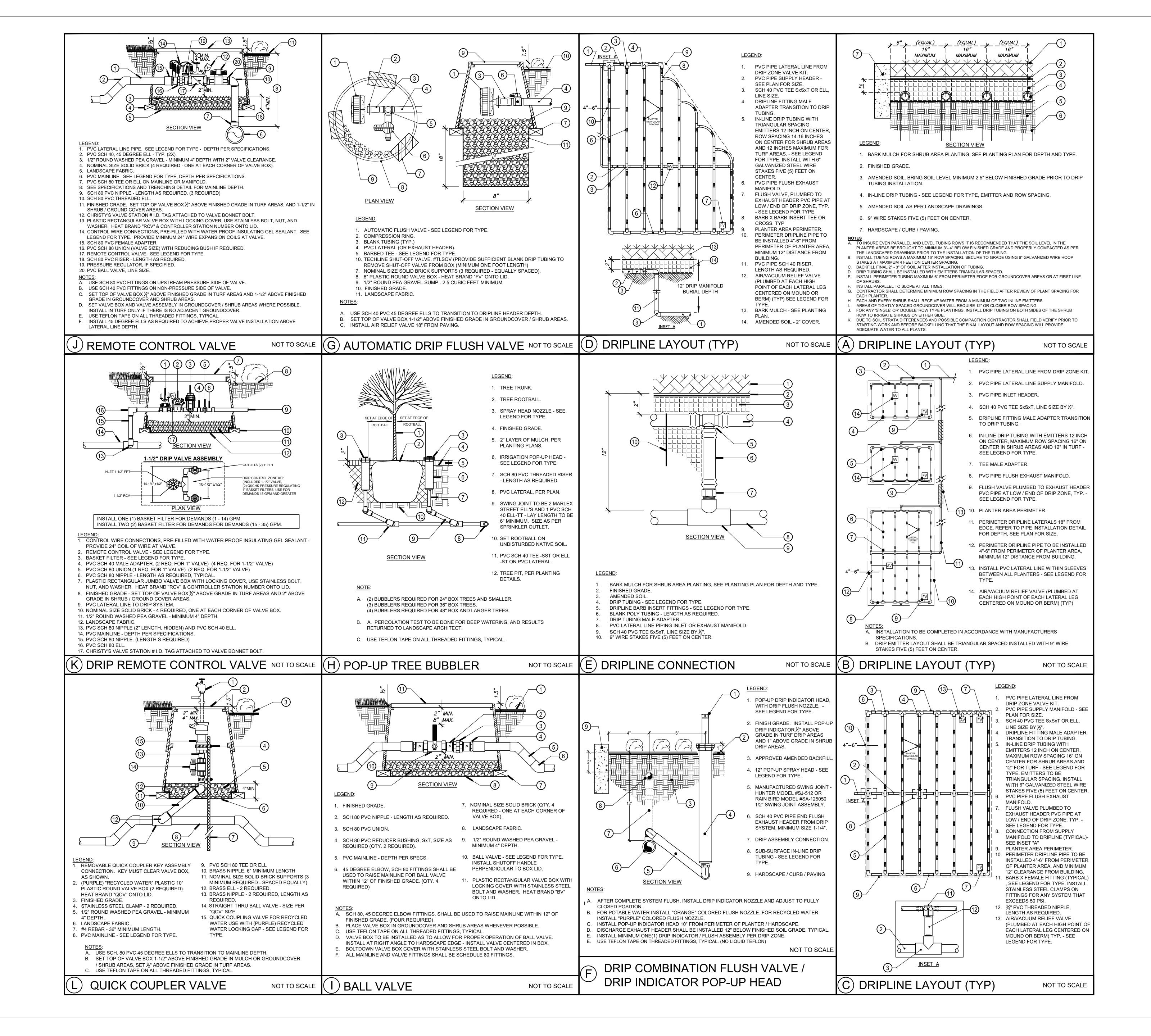
4. THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE AND THE MAXIMUM FLOW

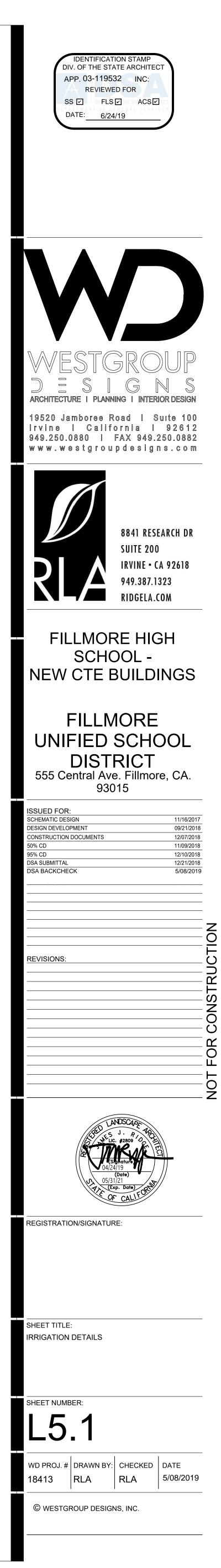
WERE NOT BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

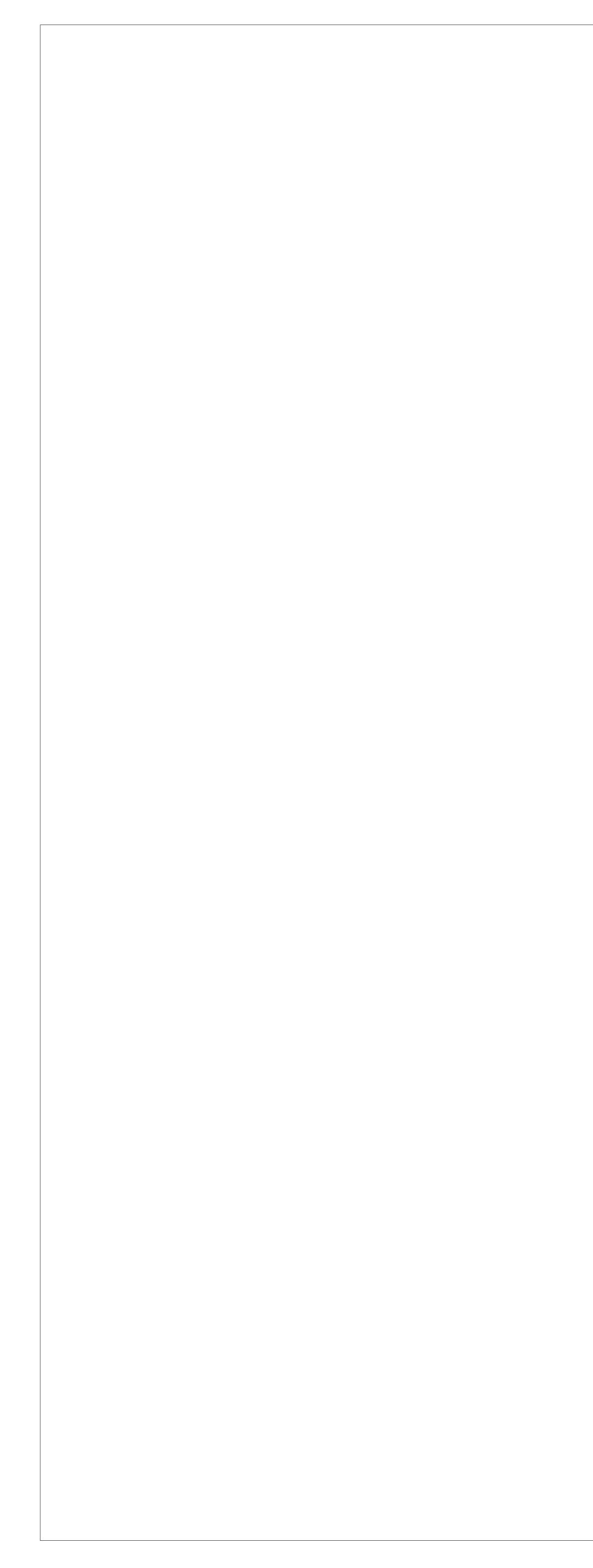
Irrigation General Notes

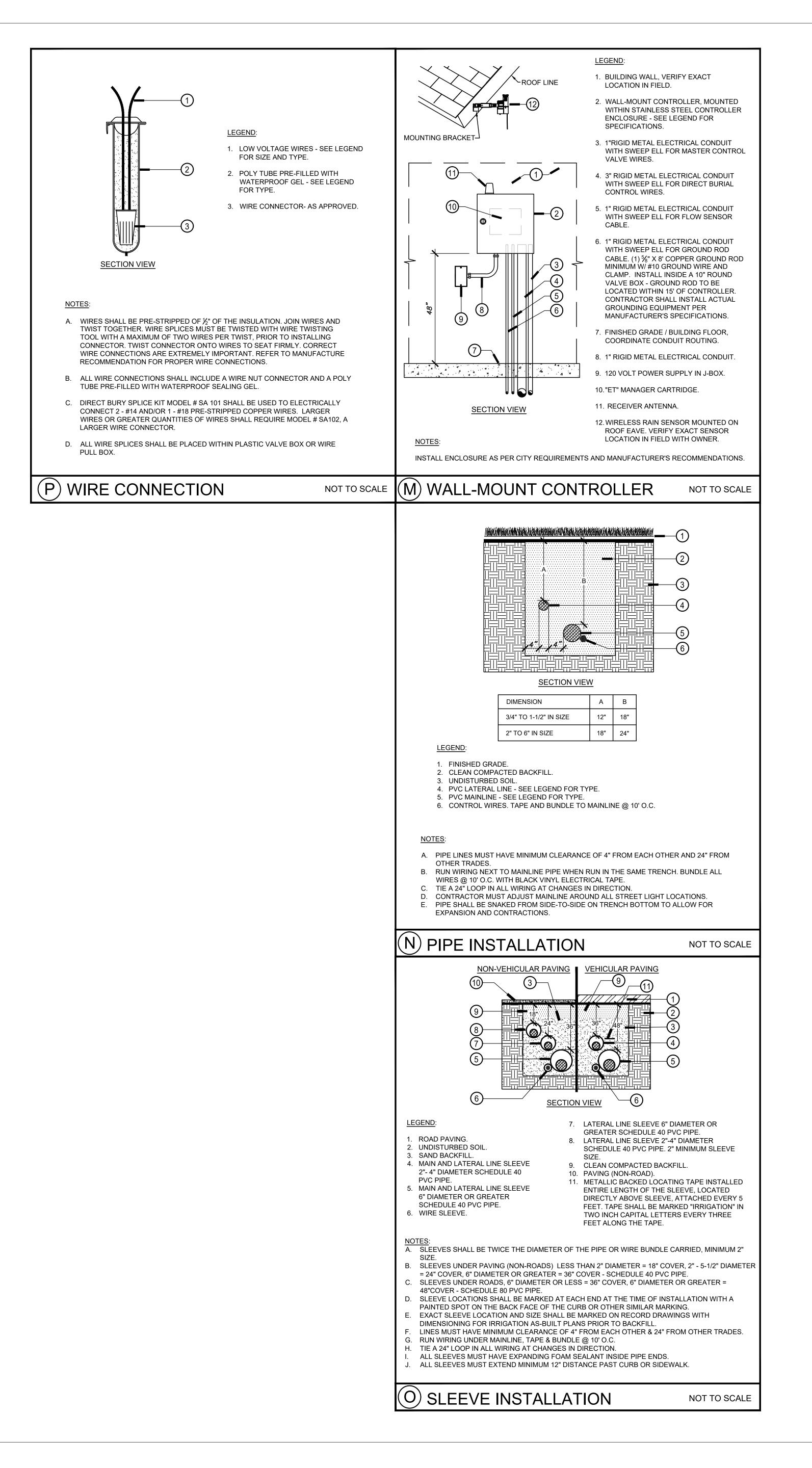
- IRRIGATION PLANS ARE DESIGNED AS DIAGRAMMATIC AND APPROXIMATE. ALL IRRIGATION EQUIPMENT, SPRINKLERS AND PIPE ARE TO BE INSTALLED IN LANDSCAPED AREA. NO IRRIGATION EQUIPMENT SHALL BE LOCATED IN HARDSCAPE. THE IRRIGATION CONTRACTOR SHALL ENSURE NO OVERSPRAY ONTO HARDSCAPE, STREETS, WALLS OR ANY OTHER HARDSCAPE / STRUCTURE.
- MAINLINE SHOWN WITHIN PAVING FOR DRAWING CLARITY ONLY, ACTUAL MAINLINE LOCATION TO BE A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES TYP.
- WHEN VERTICAL OBSTRUCTIONS (PROPS, STREET LIGHTS, TREES, ETC.) INTERFERE WITH THE SPRAY PATTERN OF THE SPRINKLER HEADS SO AS TO PREVENT PROPER COVERAGE, THE IRRIGATION CONTRACTOR SHALL FIELD ADJUST THE SPRINKLER SYSTEM BY INSTALLING A QUARTER CIRCLE OR HALF CIRCLE SPRINKLER HEAD ON EACH SIDE OF THE OBSTRUCTION SO AS TO PROVIDE PROPER COVERAGE. ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- WHEN RADIUS OF SPRINKLER HEADS, REQUIRED FOR PROPER COVERAGE, IS LESS THAN RADIUS SHOWN ON LEGEND, THE CONTRACTOR SHALL EQUIP SPRINKLER HEAD WITH A RAIN BIRD "PCS" PRESSURE COMPENSATING SCREEN FOR LOW FLOW AND RADIUS CONTROL.
- USE ADJUSTABLE ARC NOZZLES FOR ALL HEADS LOCATED IN AREAS WHERE A STANDARD ARC PATTERN OVER SPRAYS ONTO BUILDINGS, WALLS OR PAVING. ADJUSTABLE ARC NOZZLE SHOULD HAVE THE SAME RADIUS OF THROW AS THE NOZZLE BEING REPLACED.
- IRRIGATION SLEEVES SHOWN FOR MAJOR STREET AND DRIVEWAY CROSSINGS FOR CLARITY ONLY. CONTRACTOR SHALL INSTALL SLEEVING BELOW ALL PAVING, HARDSCAPE, ETC. AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE.
- ALL PIPING AND WIRE SHALL BE SLEEVED UNDER PAVING / HARDSCAPE. ALL SLEEVES TO BE MINIMUM 2X DIAMETER OF PIPE SLEEVES. ALL MAINLINE SHALL BE ACCOMPANIED WITH A MINIMUM 2-INCH DIAMETER WIRE SLEEVE. SLEEVING TO EXTEND MINIMUM 12 INCHES BEYOND PAVING.
- ALL LEAD WIRES TO BE #14 GAUGE, AND BLACK IN COLOR. ALL COMMON WIRE TO BE #14 GAUGE AND WHITE WITH COLORED STRIPE. FOR MULTIPLE CONTROLLERS USE DIFFERING COLOR STRIPE PER CONTROLLER.
- ALL IRRIGATION ADJACENT TO BUILDING SHALL BE INSTALLED A MINIMUM DISTANCE OF 12" INCHES FROM BUILDING TO AVOID WATER/OVERSPRAY ONTO BUILDING OR WINDOWS. ALL LAYOUT SHALL BE CONFIRMED IN FIELD WITH OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
- 10. TREE BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN PAVING AND BUILDINGS FOR DRAWING CLARITY ONLY, ACTUAL LOCATION TO BE WITHIN PLANTER. BUBBLERS SHALL BE ALIGNED WITH TREES AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.
- . CONTROLLER LOCATION SHOWN ON THIS DRAWING IS APPROXIMATE. THE LANDSCAPE CONTRACTOR SHALL STAKE OUT THE CONTROLLER LOCATION FOR REVIEW AND APPROVAL BY THE OWNER PRIOR TO INSTALLATION OF THIS EQUIPMENT. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ELECTRICAL CONNECTION FROM 120 VOLT POWER SOURCE TO THE CONTROLLER AND ALL WIRE CONNECTIONS FROM ALL VALVES AND APPURTENANCE VALVES TO TERMINAL STRIP. REFER TO ELECTRICAL ENGINEER'S DRAWING'S FOR POWER SOURCE. ALL ELECTRICAL WORK SHALL CONFORM TO LOCAL STATE AND NATIONAL ELECTRICAL CODES AND REGULATIONS. FINAL LOCATION AND EXACT POSITIONING OF THE CONTROLLER SHALL BE DETERMINED BY THE OWNER. MINOR MODIFICATIONS OF CONTROLLER REQUESTED BY THE OWNER SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. FAILURE TO OBTAIN OWNER'S APPROVAL PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE OWNER DIRECTED REVISIONS AT NO ADDITIONAL COST TO THE OWNER.
- 12. ELECTRIC CONTROL VALVES AND ISOLATION VALVE LOCATIONS ON THIS DRAWING ARE APPROXIMATE. THE LANDSCAPE CONTRACTOR SHALL STAKE OUT EACH ELECTRICAL CONTROL VALVE AND ISOLATION VALVE LOCATION FOR REVIEW AND APPROVAL BY OWNER PRIOR TO INSTALLATION OF ALL VALVES. FINAL LOCATION AND EXACT POSITIONING FOR ELECTRIC CONTROL VALVES AND ISOLATION VALVES SHALL BE DETERMINED BY THE OWNER. MINOR MODIFICATIONS OF ELECTRIC CONTROL VALVES AND ISOLATION VALVE LOCATIONS AS REQUESTED BY THE OWNER SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. FAILURE TO OBTAIN OWNER'S APPROVAL PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE OWNER DIRECTED REVISIONS AT NO ADDITIONAL COST TO THE OWNER. IN GENERAL, UNLESS OTHERWISE DIRECTED BY OWNER, ALL VALVES SHALL BE INSTALLED THREE FEET FROM EDGE OF HARDSCAPE, WALK OR CURB IN SHRUB PLANTING AREAS.

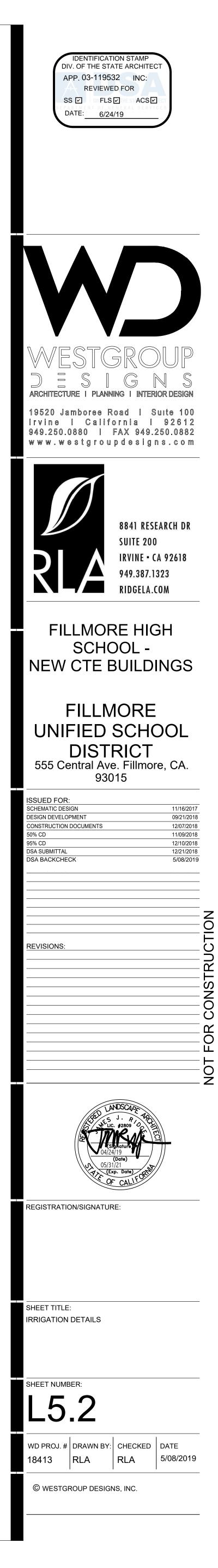


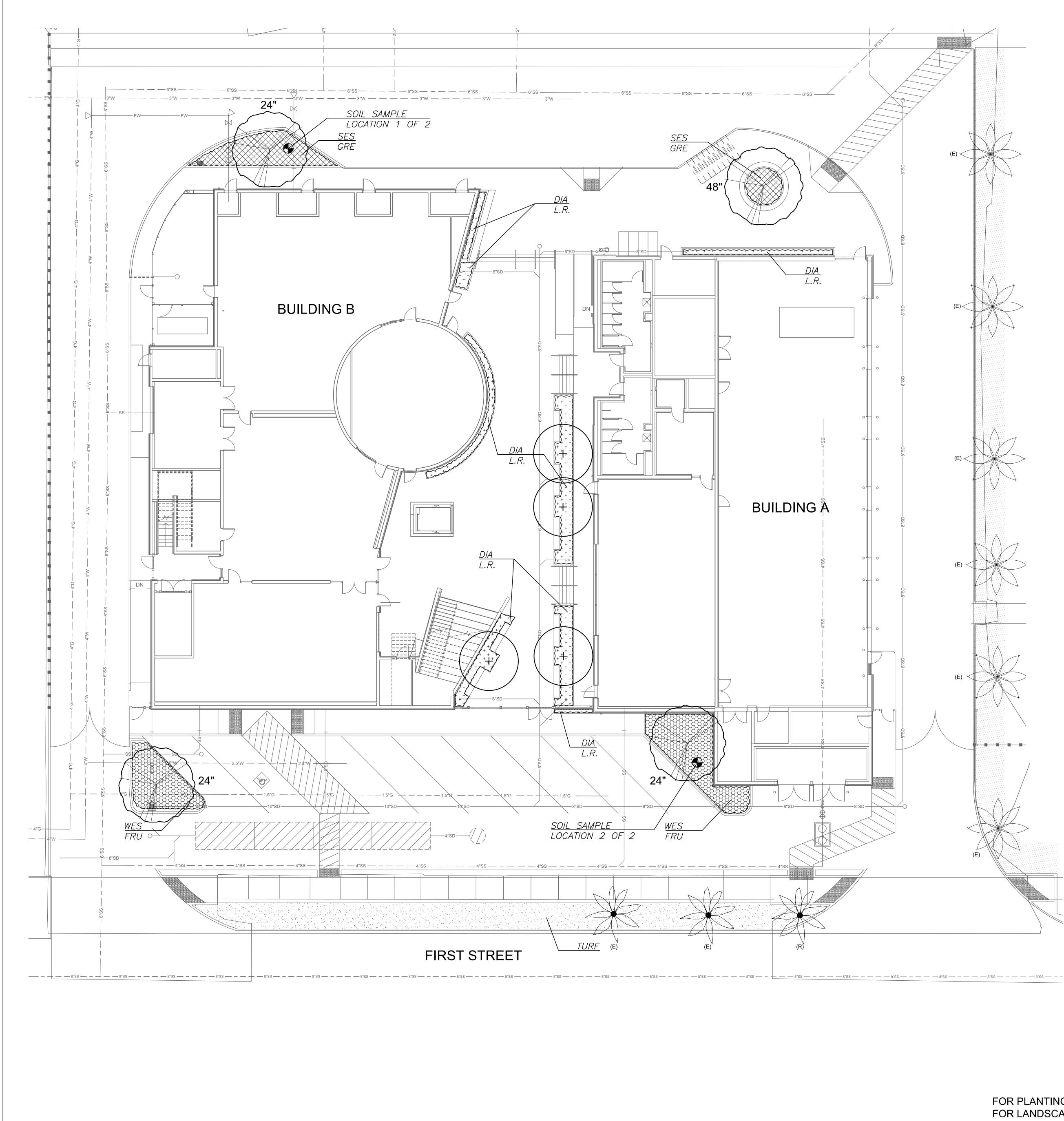


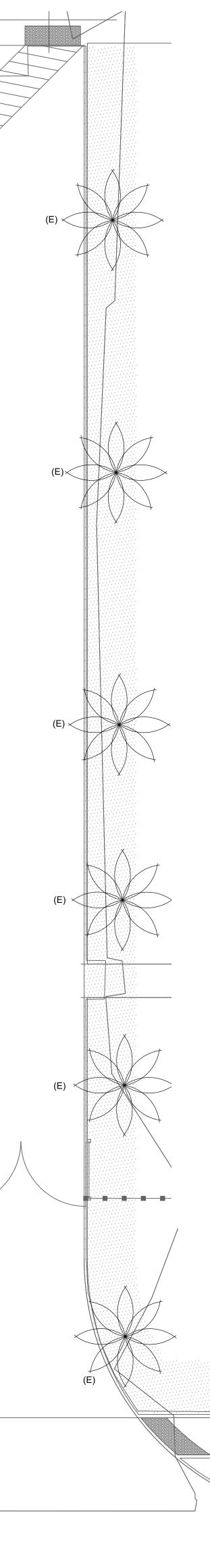












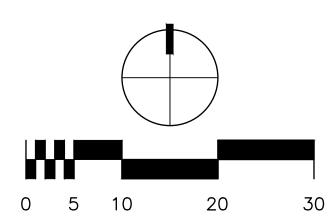
| PLAN                                  | IT SC        | CHEDULE                         |  |                            |              |           |                    |
|---------------------------------------|--------------|---------------------------------|--|----------------------------|--------------|-----------|--------------------|
| SYMBOL                                |              | BOTANICAL NAME                  | COMMON NAME                            | SIZE/<br>FORM              | WATER<br>USE | DETAIL(S) | QTY.               |
| TREES                                 |              |                                 |  |                            |              | -         |                    |
|                                       | $\mathbf{i}$ | LOPHOSTEMON<br>CONFERTUS        | BRISBANE BOX                           | 24" & 48"<br>BOX /<br>STD. | LOW          | A, L7.1   | 24" - 3<br>48" - 1 |
| +                                     |              | RHAPHIOLEPIS X<br>'MONTIC'      | MAJESTIC<br>BEAUTY INDIAN<br>HAWTHORNE | 24" BOX /<br>STD.          | MOD          | A, L7.1   | 4                  |
| SYMBOL                                | KEY          | BOTANICAL NAME                  | COMMON NAME                            | SIZE /<br>SPACING          | WATER<br>USE | DETAIL(S) | QTY.               |
| SHRUBS,                               | VINES A      | ND GROUNDCOVERS                 |  |                            |              |           |                    |
| + + + + + + + + + + + + + + + + + + + | DIA<br>L.R.  | DIANELLA T. 'LITTLE<br>REV'     | LITTLE REV FLAX<br>LILY                | 1 GAL. /<br>24" O.C.       | MOD          | B-C, L7.1 | 90                 |
|                                       | SES<br>GRE   | SESLERIA<br>'GREENLEE'          | GREENLEE<br>MOOR GRASS                 | 1 GAL. /<br>24" O.C.       | MOD          | B-C, L7.1 | 20                 |
|                                       | WES<br>MUN   | WESTRINGIA<br>FRUTICOSA 'MUNDI' | MUNDI COAST<br>ROSEMARY                | 5 GAL. /<br>30" O.C.       | LOW          | B-C, L7.1 | 130                |
| TURF                                  |              |                                 |  |                            |              | ·         |                    |
|                                       | TURF         | SANTA ANA HYBRID BERMUDA        |  | SOD                        | HIGH         |           | PER PLAN           |
| WATER USE                             | KEY:         |                                 |  |                            |              |           |                    |

VL = VERY LOW WATER USE, L = LOW WATER USE, M = MODERATE WATER USE, H = HIGH WATER USE. WATER USE STATED IS PER 'A GUIDE TO ESTIMATING IRRIGATION WATER NEEDS OF LANDSCAPE PLANTINGS IN CALIFORNIA' (ALSO REFERRED TO AS WUCOLS) FOR REGION 3.

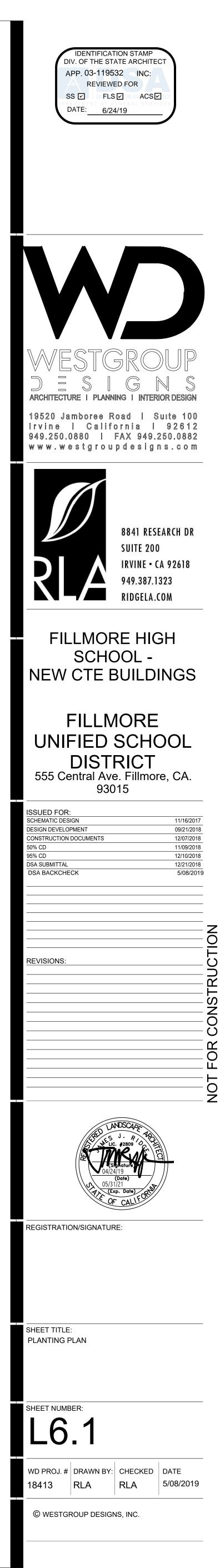
DENOTES SOIL SAMPLE LOCATION - REFER TO PLANTING NOTE 'H' FOR ADDITIONAL INFORMATION.

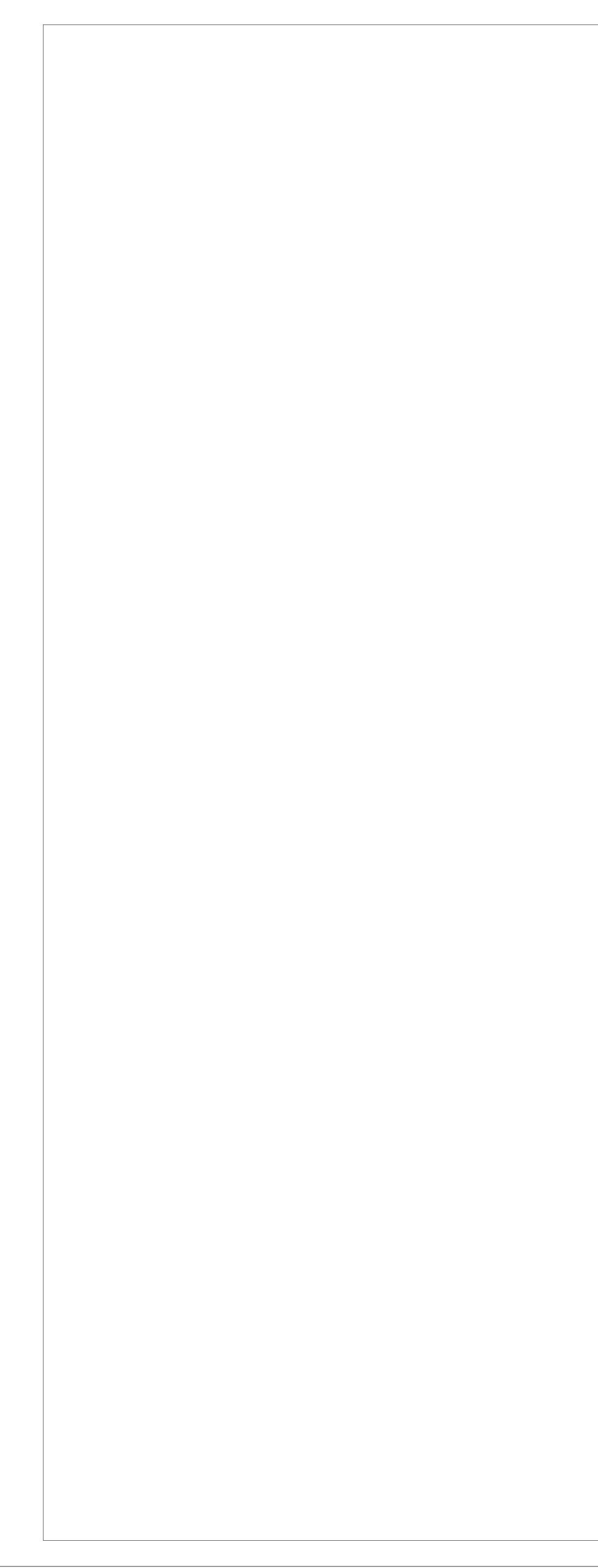
FOR PLANTING NOTES, SEE SHEET L7.1.

| EXISTING TREE SCHEDULE   |                          |             |  |  |  |
|--|--------------------------|-------------|--|--|--|
| SYMBOL   | BOTANICAL NAME           | COMMON NAME |  |  |  |
| TREES  |                          |             |  |  |  |
|  | PHOENIX DACTYLIFERA      | DATE PALM   |  |  |  |
|  | SYAGRUS<br>ROMANZOFFIANA | QUEEN PALM  |  |  |  |
| NOTE: THE LETTER (E) NEXT TO A TREE SYMBOL INDICATES<br>AN EXISTING TREE TO BE PROTECTED IN PLACE. THE LETTER<br>(R) INDICATES AN EXISTING TREE TO BE REMOVED FROM SITE. |                          |             |  |  |  |



FOR PLANTING DETAILS & NOTES - SEE SHEET L7.1 FOR LANDSCAPE SPECIFICATIONS - SEE BOOK SPECS 0 5 10 20

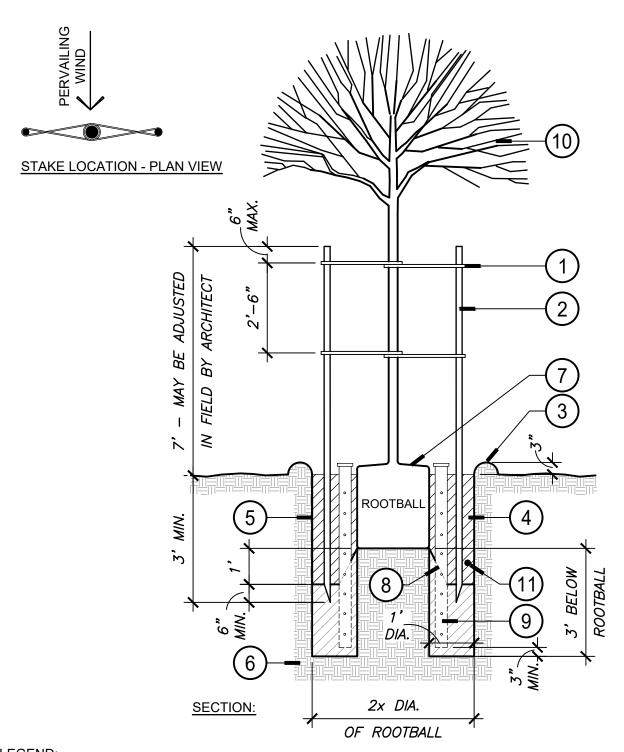




# PLANTING NOTES

- 1. REFER TO PLANTING SPECIFICATIONS AND DETAILS FOR SOIL PREPARATION, FERTILIZATION, MULCHING AND OTHER PLANTING INFORMATION.
- 2. NOTIFY THE OWNER'S AUTHORIZED REPRESENTATIVE AND THE CITY INSPECTOR 48 HOURS PRIOR TO COMMENCEMENT OF WORK TO COORDINATE PROJECT INSPECTION SCHEDULES.
- 3. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY SHOULD FIELD CONDITIONS VARY FROM THOSE SHOWN ON PLAN.
- 4. REPORT DISCREPANCIES IN THE DRAWINGS OR BETWEEN THE DRAWINGS AND ACTUAL FIELD CONDITIONS TO THE LANDSCAPE ARCHITECT. CORRECTED DRAWINGS OR INSTRUCTION SHALL BE ISSUED PRIOR TO THE CONTINUATION OF THIS WORK. ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY CORRECTIONS DUE TO FAILURE TO REPORT KNOWN DISCREPANCIES.
- LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND PROTECT THEM FROM DAMAGE. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY AND ASSUME FULL RESPONSIBILITY FOR EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH DAMAGED UTILITIES.
- 6. LOCATION OF N.I.C. CONSTRUCTION ELEMENTS SUCH AS LIGHTS, SIGNS, VENTS, HYDRANTS, TRANSFORMERS, ETC. ARE APPROXIMATE. NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY SHOULD THE LOCATION OF THESE ITEMS INTERFERE WITH THE PROPER EXECUTION OF WORK.
- 7. PROVIDE PRE-PLANT WEED CONTROL IN ALL PROPOSED PLANTER AREAS, PER SPECIFICATIONS, PRIOR TO START OF PLANTING. WEED CONTROL INCLUDES ERADICATION OF ALL EXISTING WEED PLANTS, AS WELL AS VIABLE SEEDS AND ROOTS. USE A NON-SELECTIVE SYSTEMIC CONTACT HERBICIDE, APPLIED PER MANUFACTURER'S RECOMMENDATIONS AND LEAVE SPRAYED PLANTS INTACT FOR AT LEAST 14 DAYS BEFORE REMOVING BY MOWING OR GRUBBING. APPLY WATER BY IRRIGATION OR BY HAND FOR 10 DAYS AS REQUIRED TO ACHIEVE WEED GERMINATION, AND THEN RE-APPLY CONTACT HERBICIDES PER ABOVE. REPEAT AS REQUIRED TO ELIMINATE ALL WEEDS PRIOR TO PROCEEDING WITH PLANTING OPERATIONS.
- 8. OBTAIN ALL SOIL FOR LANDSCAPE PLANTING AREAS OR BERMS FROM ON-SITE EXCAVATIONS. SHOULD IMPORT SOIL BE NECESSARY, SUBMIT IMPORT SOIL TESTING RESULTS FOR APPROVAL PRIOR TO IMPORTATION. SOIL SHALL BE SANDY LOAM CONTAINING NO TOXIC CHEMICALS OR ELEMENTS WHICH MAY INHIBIT OR RETARD NORMAL PLANT GROWTH.
- 9. BEFORE BIDDING AND AFTER ROUGH GRADES HAVE BEEN ESTABLISHED IN PLANTING AREAS, HAVE SOIL SAMPLES TAKEN AT THE LOCATIONS INDICATED ON PLANTING PLAN. HAVE SAMPLES TESTED BY WAYPOINT ANALYTICAL, (800) 264-4522, FOR SOIL FERTILITY. TAKE TWO SAMPLES AT EACH LOCATION: (1) GROUND LEVEL TO 10" DEEP, (2) 24" TO 36" DEEP. EACH SAMPLE SHALL CONTAIN APPROXIMATELY 1 QUART OF SOIL TO BE LABELED PER LOCATION AND DEPTH. INSTALL SOIL PREPARATION AND BACK FILL MIX TO CONFORM TO THESE RECOMMENDATIONS ONLY UPON RECEIPT OF WRITTEN CHANGE ORDER FROM THE OWNER. SUBMIT SOIL REPORT TO LANDSCAPE ARCHITECT PRIOR TO PLANTING.
- 10. ENSURE THAT ROUGH GRADING HAS BEEN CERTIFIED BY CIVIL ENGINEER AND THAT CIVIL ENGINEER OR OWNER'S AUTHORIZED REPRESENTATIVE HAS APPROVED FINE GRADING TO 10 TH OF A FOOT PRIOR TO BEGINNING SOIL PREPARATION OPERATIONS. PROVIDE FOR INCLUSION OF ALL AMENDMENTS, SETTLING, ETC. IN DETERMINATION OF FINAL GRADES.
- 11. ASSURE POSITIVE DRAINAGE IN ALL PLANTING AREAS, 2% MINIMUM.
- 12. LOCATE AND TAG ALL PLANT MATERIAL. MATERIAL SHALL BE IN CONFORMANCE WITH PLANTING PLAN DESCRIPTIONS AND SPECIFICATIONS. ALL PLANT MATERIAL IS SUBJECT TO REVIEW AND APPROVAL PRIOR TO INSTALLATION. PROVIDE PHOTOS OF REPRESENTATIVE EXAMPLES OF EACH TAGGED BLOCK TO LANDSCAPE ARCHITECT MINIMUM 21 DAYS BEFORE ANTICIPATED DELIVERY. PHOTOS SHALL INCLUDE A PERSON FOR SCALE PURPOSES. LANDSCAPE ARCHITECT MAY OPT TO REVIEW MATERIAL AT GROWING NURSERY. MATERIAL DELIVERED TO THE SITE MAY BE REJECTED BASED ON UNHEALTHY APPEARANCE OR NON-CONFORMANCE WITH SPECIFICATIONS EVEN IF PREVIOUSLY REVIEWED BY THE LANDSCAPE ARCHITECT OR THE OWNER.
- 13. FINAL LOCATION OF ALL PLANT MATERIALS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
- 14. PLANTING QUANTITIES ARE GIVEN FOR CONVENIENCE ONLY. PLANT SYMBOLS AND SPECIFIED SPACING SHALL TAKE PRECEDENCE.
- 15. AT EDGES OF PLANTING AREAS, THE CENTER LINE OF THE LAST ROW OF SHRUBS AND/OR GROUND COVER SHALL BE LOCATED AT ONE-HALF THE SPECIFIED ON CENTER SPACING FROM THE EDGE.
- 16. INSTALL GROUND COVER AND/OR SHRUB MASSES WITH TRIANGULAR SPACING UNLESS OTHERWISE INDICATED.
- 17. ALL CURVE TO CURVE AND CURVE TO TANGENT LINES SHALL BE NEAT, TRIM, SMOOTH AND UNIFORM.
- 18. REMOVE ALL NURSERY STAKES AND ESPALIER RACKS IMMEDIATELY AFTER INSTALLATION UPON PROVIDING SUPPORT PER PLAN.
- 19. DURING THE LENGTH OF THE GUARANTEE PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER STAKING AND/OR GUYING OF TREES TO ENSURE STABILITY.
- 20. MULCH ALL LANDSCAPE AREAS (EXCLUDING TURF AND BIO-RETENTION BASIN BOTTOMS) WITH A 3" DEEP LAYER OF .5"-1.5" FOREST FLOOR BARK MULCH BY AGUINAGA GREEN OR APPROVED EQUAL, AT THE CONCLUSION OF PLANTING OPERATIONS. SUBMIT SAMPLE TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- 21. KEEP BARK MULCH 4-INCHES CLEAR FROM BASE OF TREES, SHRUBS, GRASSES, AND SUCCULENTS.
- REPLACEMENT PLANT MATERIAL MUST BE OF MATCHING SPECIES, INSTALLED FROM THE FOLLOWING MINIMUM SIZE: 15-GALLON TREE, 1-GALLON SHRUB, FLATTED GROUNDCOVER AND SODDED TURF.
- 23. INSTALLATIONS THAT ARE ADJACENT OPEN SPACE, NATURALIZED SLOPES OR UNDEVELOPED LAND ARE SUBJECT TO DAMAGE BY RODENTS OR DEER AND SHALL BE TREATED WITH AN APPROPRIATE REPELLENT IN A SPRAY AND/OR TABLET FORM. REPELLEX BY GROPOWER OR APPROVED EQUAL, THAT PROVIDES IMMEDIATE AND LONG TERM PROTECTION, SHALL BE USED.
- 24. INSTALL EROSION CONTROL MAT ON SLOPES 2:1 AND STEEPER. SECURE WITH 12" LONG GALVANIZED SOIL STAPLES 12" O.C. HORIZONTALLY ALONG SLOPE AND 5' O.C. VERTICALLY DOWN THE SLOPE. PROVIDE MINIMUM 3' OVERLAP AT TOP AND BOTTOM AND MINIMUM 4" OVERLAP ALONG SIDES. 3
- 25. ROOT BARRIERS SHALL BE INSTALLED AT ALL TREES WITHIN 5 FEET OF ANY HARDSCAPE, PAVEMENT OR CURB. ROOT BARRIERS ARE TO BE 'UB24-2' BY DEEP ROOT CORPORATION, (800) 458-7668, INSTALLED PER MANUFACTURER'S SPECIFICATIONS. NOTE: ROOT BARRIERS SHALL NOT BE WRAPPED AROUND THE ROOTBALL. ROOT BARRIERS INSTALLED ADJACENT TO A BIOSWALE SHALL NOT INTERFERE WITH DRAINAGE TO OR FROM THE BIOSWALE SYSTEM.
- 26. ANNUAL COLOR TO BE SELECTED BY LANDSCAPE ARCHITECT AT TIME OF INSTALLATION. REQUEST RECOMMENDATION A MINIMUM OF 48 HOURS IN ADVANCE OF NEED FOR DELIVERY.

22. CONTRACTOR SHALL REPLACE ANY EXISTING PLANT MATERIAL WHICH IS DAMAGED BY CONSTRUCTION OPERATIONS.



- I FGFND 1. (4) VIT RUBBER "CINCH TIES" - ATTACH TO WOOD STAKES IN A FIGURE EIGHT PATTERN WITH GALVANIZED ROOFING NAILS.
- 2. (2) 2" DIA. X 10' WOOD STAKES FOR 24" BOX AND SMALLER TREES OR (2) 3" DIA. X 10' WOOD STAKES FOR 36" BOX AND LARGER TREES. STAKES TO BE UNTREATED LODGEPOLE PINE WITH TAPERED POINTS AND CHAMFERED TOPS. CUT TOP OF STAKES IF DIRECTED BY LANDSCAPE ARCHITECT. DO NOT ALLOW TOP OF STAKES TO EXTEND INTO TREE CANOPY. LONGER 12' LONG STAKES ARE TO BE USED, AS NECESSARY, TO PROVIDE ADDITIONAL SUPPORT FOR TALL AND/OR TOP-HEAVY TREES
- 3. WATER BASIN 3" MINIMUM DEPTH. REMOVE BASIN IN LAWN AREAS AND AS DIRECTED BY LANDSCAPE ARCHITECT.
- 4. AMENDED BACKFILL PER SPECIFICATIONS.
- SCARIFY SIDES AND BOTTOM OF TREE PIT.
- 6. NATIVE UNDISTURBED SOIL.
- 7. AFTER SETTLING TREE, SET TOP OF ROOTBALL 3" ABOVE SURROUNDING FINISH GRADE AND SLOPE GRADE FOR DRAINAGE.
- 8. CREATE A 45 DEGREE CHAMFERED PEDESTAL FROM UNDISTURBED NATIVE SOIL TO REDUCE TREE SETTLEMENT.
- 9. INSTALL (2) 4" DIA. SDR 35 PERFORATED SEWER STANDPIPE WITH DRAIN SOCK AT OPPOSITE SIDES OF TREE PIT. PAINT TOP 6" OF STANDPIPE BLACK. TERMINATE TOP OF STANDPIPES WITH BLACK NDS #11 (4" ROUND) GRATES. INSTALL TOP OF GRATE 2" ABOVE FINISH GRADE. ORIENT STANDPIPES IN SAME LOCATION AT EACH TREE GROUPING TO FACILITATE VERIFICATION AND MAINTENANCE. STANDPIPES TO BE LOCATED IN OPPOSING CORNERS OF PLANT PIT.
- 10. TREE PLUMB AND CENTER IN PIT.

11. PLANT TABLET PER SPECIFICATION.

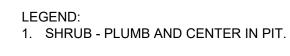
- NOTES: A. ENSURE THAT TREE TIES ARE INSTALLED LOOSE ENOUGH TO ALLOW FOR ADEQUATE TRUNK MOVEMENT. B. INSTALL STANDPIPE FOR 24" BOX TREES AND LARGER TREES ONLY.
- C. SLOPE BOTTOM OF PLANT PIT TO SUMP AT 2% MINIMUM.
- D. KEEP MULCH 4" CLEAR OF TRUNK, TYPICAL.

2x DIA.

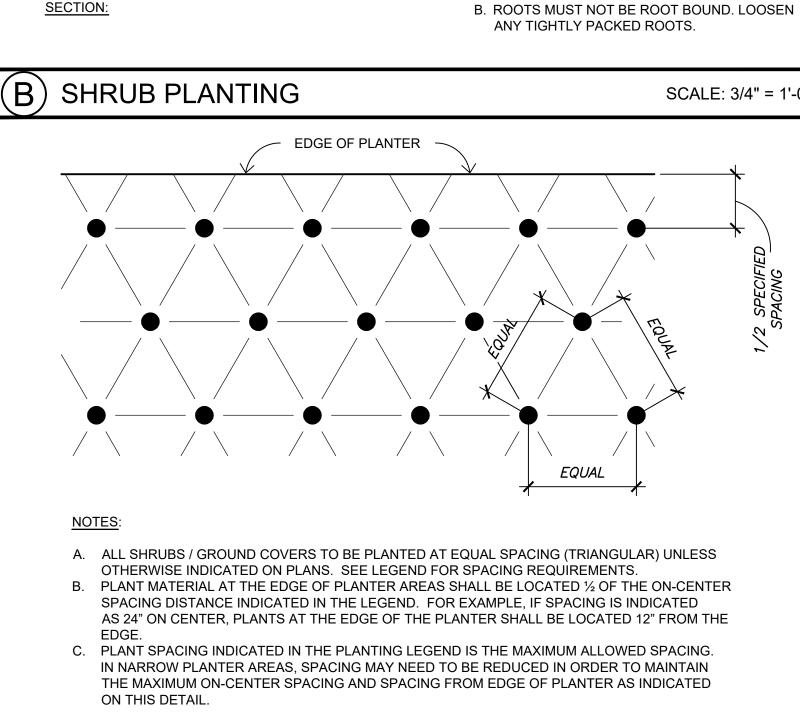
OF ROOTBALL

E. AT TURF AREAS, MAINTAIN TURF AT 12" CLEAR FROM BASE OF TRUNK AND INSTALL 'ARBOR GARD' TRUNK PROTECTOR.

# TREE PLANTING



- WATER BASIN 3" MINIMUM DEPTH. REMOVE BASIN IN LAWN AREAS AND AS DIRECTED BY LANDSCAPE ARCHITECT.
- . AMENDED BACKFILL PER SPECIFICATIONS.
- 4. SCARIFY SIDES AND BOTTOM OF SHRUB PIT.
- 5. NATIVE UNDISTURBED SOIL.
- AFTER SETTLING SHRUB, SET TOP OF ROOTBALL 1" ABOVE SURROUNDING FINISH GRADE AND SLOPE GRADE FOR DRAINAGE.
- 7. CREATE A 45 DEGREE CHAMFERED PEDESTAL FROM UNDISTURBED NATIVE SOIL TO REDUCE TREE SETTLEMENT.
- 8. PLANT TABLET PER SPECIFICATION.
- NOTES: A. KEEP MULCH 4" CLEAR OF CROWN, TYPICAL. B. ROOTS MUST NOT BE ROOT BOUND. LOOSEN



|  | IDENTIFICATION STAMP<br>DIV. OF THE STATE ARCHITECT<br>APP. 03-119532 INC:<br>REVIEWED FOR<br>SS I FLS ACS DATE: 6/24/19  |   |
|--|---|---|
|  | WESTGROUP<br>DESIGNS<br>ARCHITECTURE I PLANNING I INTERIOR DESIGN<br>19520 Jamboree Road I Suite 100<br>Irvine I California I 92612   |   |
| ITH GALVANIZED   | 949.250.0880   FAX 949.250.0882<br>www.westgroupdesigns.com   |   |
| D STAKES FOR 36"<br>POINTS AND<br>DT ALLOW TOP OF<br>NECESSARY, TO<br>Y LANDSCAPE                | 8841 RESEARCH DR<br>SUITE 200<br>IRVINE - CA 92618<br>949.387.1323<br>RIDGELA.COM   |   |
| AND SLOPE GRADE  | - FILLMORE HIGH   |   |
| UCE TREE<br>SITE SIDES OF TREE<br>NDS #11 (4" ROUND)<br>E LOCATION AT EACH<br>OCATED IN OPPOSING | SCHOOL -<br>NEW CTE BUILDINGS   |   |
| FRUNK MOVEMENT.  | FILLMORE<br>UNIFIED SCHOOL<br>DISTRICT<br>555 Central Ave. Fillmore, CA.<br>93015   |   |
| BOR GARD' TRUNK  | ISSUED FOR:           SCHEMATIC DESIGN         11/16/2017           DESIGN DEVELOPMENT         09/21/2018           CONSTRUCTION DOCUMENTS         12/07/2018           50% CD         11/109/2018           95% CD         12/10/2018           DSA SUBMITTAL         12/21/2018 | • |
| SCALE: 3/8" = 1'-0"  | DSA BACKCHECK 5/08/2019   |   |
| ER IN PIT.<br>DEPTH. REMOVE<br>AS DIRECTED BY<br>PECIFICATIONS.<br>DM OF SHRUB PIT.              |   |   |
| <br>ET TOP OF<br>OUNDING FINISH<br>FOR DRAINAGE.<br>MFERED PEDESTAL<br>'E SOIL TO REDUCE         |   |   |
| ICATION.<br>F CROWN, TYPICAL.<br>OT BOUND. LOOSEN<br>DOTS.                                       | LIC. #2809<br>(Stghature H<br>04/24/19<br>(Date)<br>05/31/21  |   |
| SCALE: 3/4" = 1'-0"  | O5/31/21<br>(Exp. Date)<br>OF CALLFORM  |   |
| 1/2 SPECIFIED<br>SPACING   | REGISTRATION/SIGNATURE:   |   |
| UNLESS<br>DN-CENTER<br>CATED<br>FROM THE<br>PACING.  | SHEET NUMBER:<br>LTTT<br>WD PROJ. # DRAWN BY: CHECKED DATE<br>18413 RLA RLA 5/08/2019   |   |