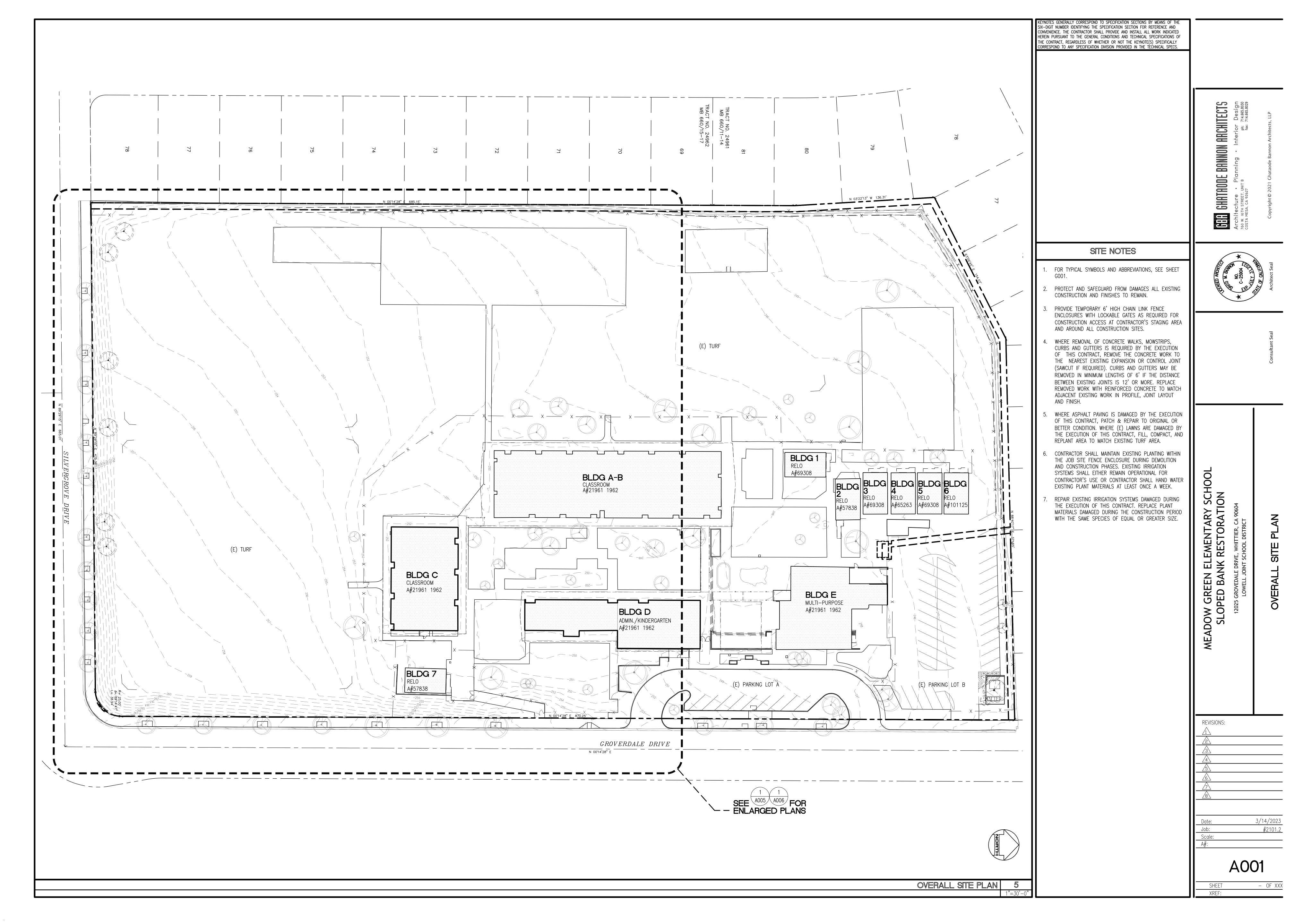
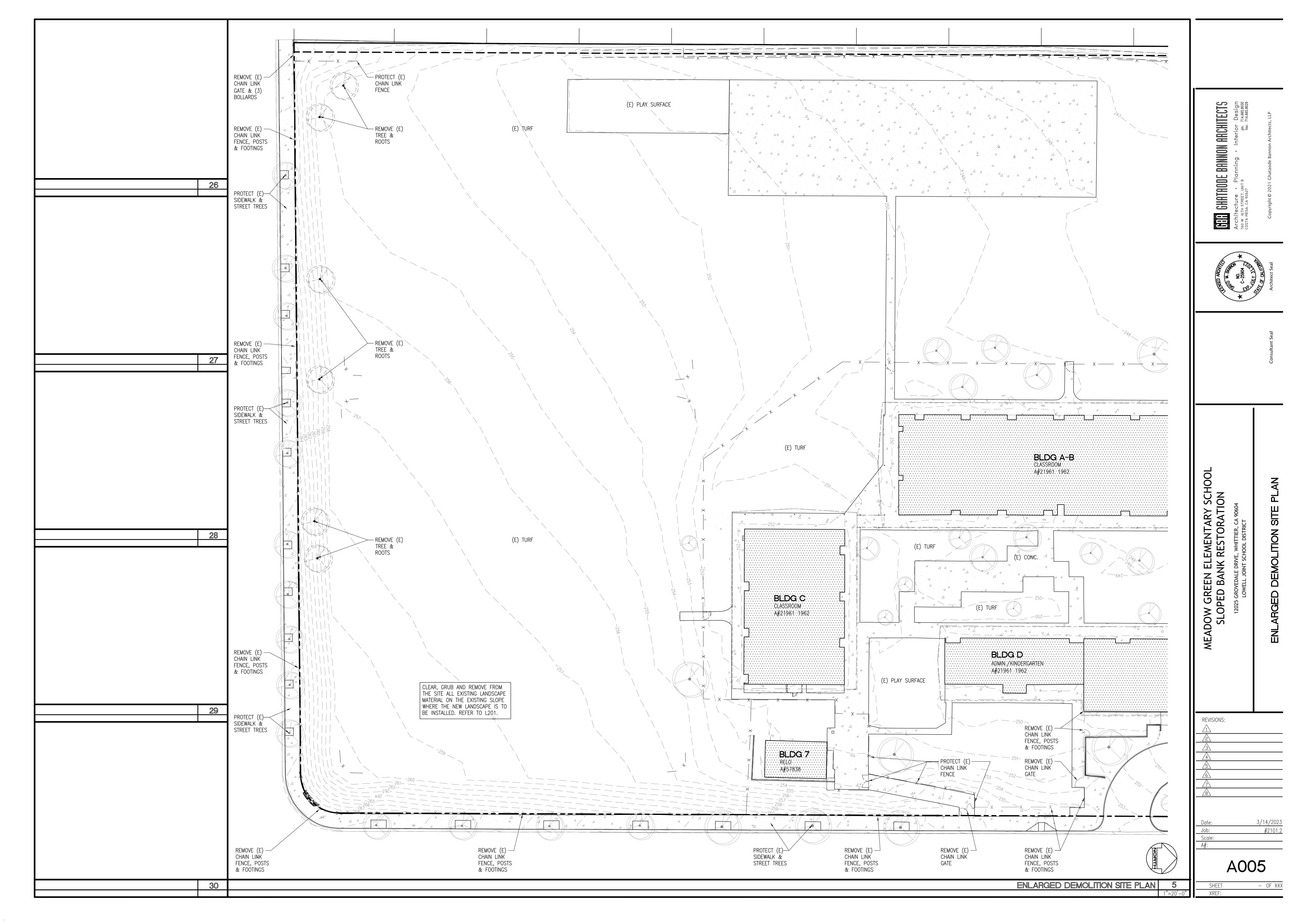
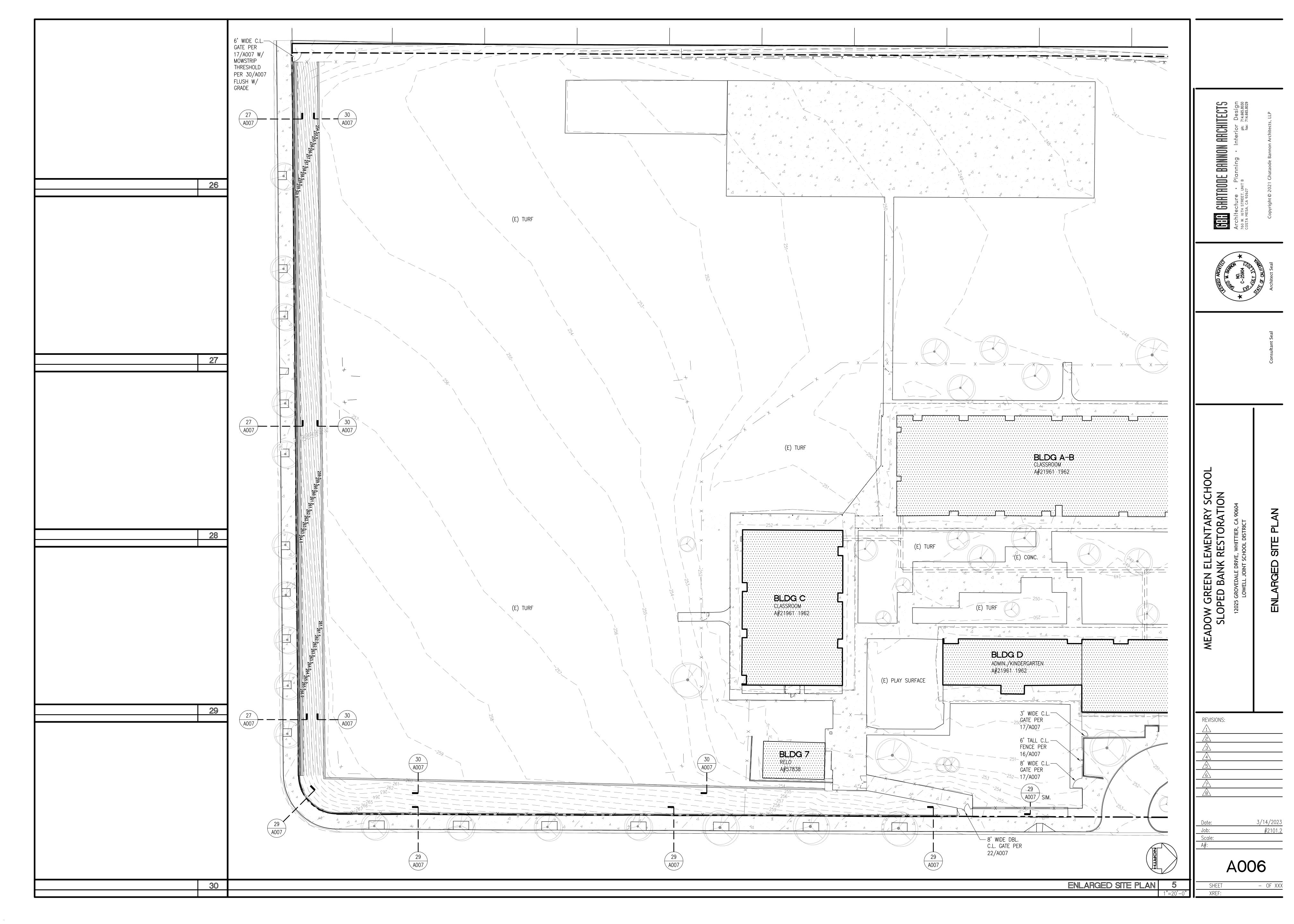
MEADOW GREEN ELEMENTARY SCHOOL SLOPED BANK RESTORATION

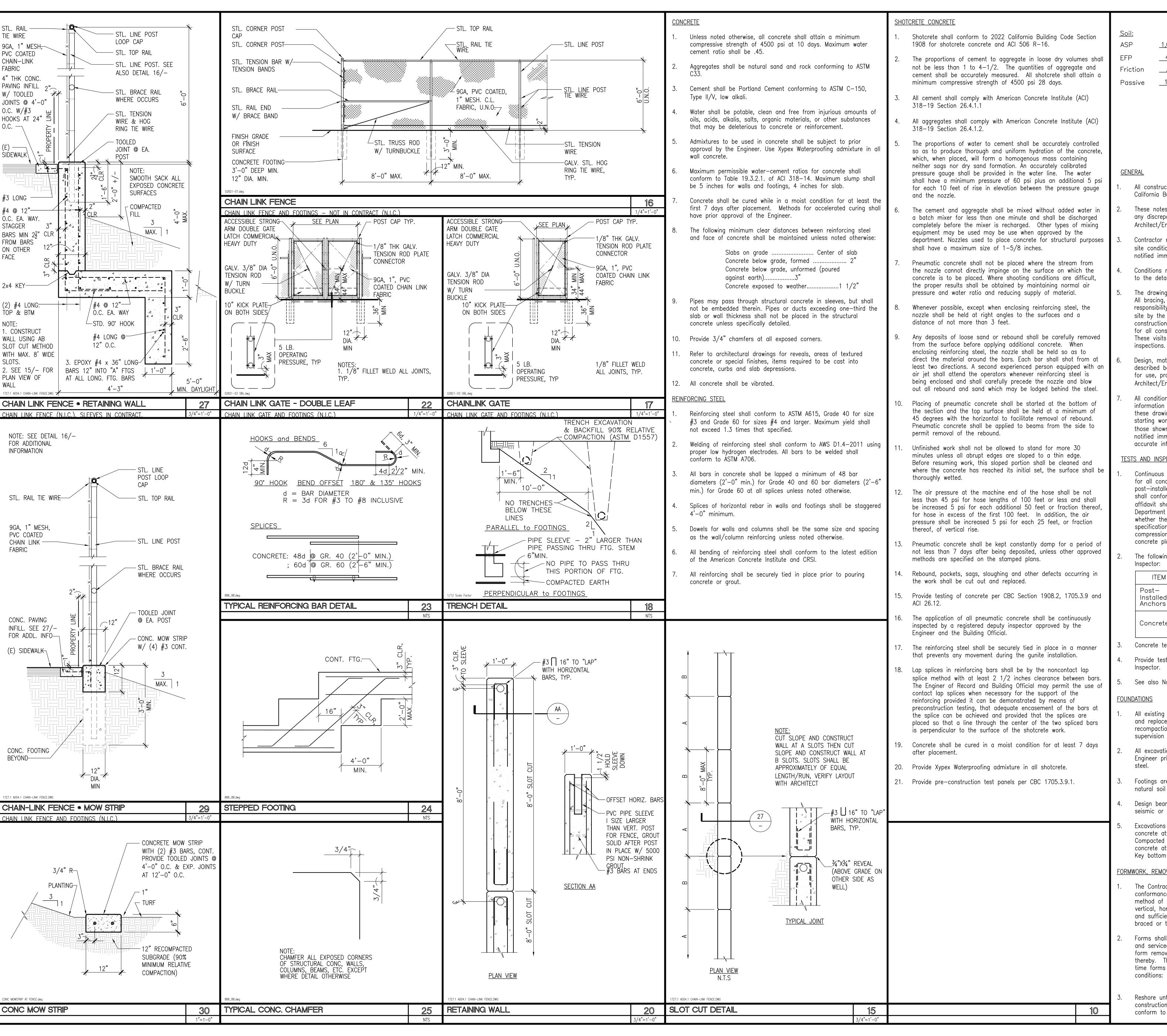
12025 GROVEDALE DRIVE, WHITTIER, CA 90604 LOWELL JOINT SCHOOL DISTRICT

ABBREVIATIONS	RENOV/DEMO GENERAL NOTES	GENERA	L NOTES	SHEET INDEX TOTAL SHEETS: 13	APPLICABLE CODES	GHATAODE BANNO ecture • Planning SA, CA 92627
AND ANGLE AT ANGLE AT ANGLE AT AND AT AND AT ANGLE AT AND AND AT AND AND AT AND	ARCHITECTURAL, ELECTRICAL AND MECHANICAL WORK, EACH WITH THE OTHERS, FOR LOCATIONS, EXTENT OF WORK AND SIZES. 2. COORDINATE NEW OPENINGS IN EXISTING WALLS AND FLOORS FOR PIPES AND CONDUITS WITH MECHANICAL AND ELECTRICAL CONSTRUCTION. 3. THE CONTRACTOR SHALL DISPOSE OF ALL REMOVED AND/OR DEMOLISHED MATERIAL, WASTE AND DEBRIS CAUSED BY THE NEW WORK. THIS MATERIAL SHALL BE REMOVED FROM THE PROPERTY AND TAKEN TO A LEGALLY OPERATED DISPOSAL SITE. 4. REMOVAL OF ALL DEBRIS SHALL BE DONE CAREFULLY AND NOT ALLOWED TO FALL AND TO IMPACT EXISTING STRUCTURE, WORK AND/OR FINISHES. REPAIR ANY DAMAGE AFTER REPORTING AND RECEIVING INSTRUCTIONS FOR REMEDIAL WORK. 5. BEFORE PROCEEDING WITH DEMOLITION, THE CONTRACTOR SHALL VERIFY THAT THE REMOVAL OF EXISTING BUILDING COMPONENTS DOES NOT REQUIRE SHORING AND/OR BRACING. WHERE DEMOLITION WORK NECESSITATES THE PROVISION OF SHORING AND/OR BRACING, THE CONTRACTOR SHALL PROVIDE SUCH UNLESS SPECIFICALLY SHOWN OTHERWISE. 6. MATERIALS, EQUIPMENT OR CONSTRUCTIONS NOT NOTED IN THE CONSTRUCTION DOCUMENTS, ARE A PART OF THE WORK, AND IF DISCOVERED DURING THE COURSE OF THE WORK, SHALL BE REPORTED FOR INSTRUCTIONS PRIOR TO REMOVAL OR ABANDON IN PLACE. 7. IN ADDITION TO DEMOLITION SHOWN, CUT, MOVE, DISMANTLE OR SALVAGE ITEMS NECESSARY TO PROVIDE ACCESS TO ALLOW REPAIR WORK TO PROCEED.	WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF FIELD OBSERVATIONS, INFORMATION SHOWN ON AVAILABLE DOCUMENTS AND FIELD CONDITIONS AT THE TIME OF PREPARATION. 2. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS. 3. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. 4. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN. 5. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS. 6. DETAILS MARKED 'TYPICAL' SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE. 7. WHERE NO SPECIFIC DETAIL IS SHOWN, THE FRAMING OR CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION. 8. ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED. REPLACE OR REPAIR EXISTING ELEMENTS	 CONTRACTOR SHALL STOP WORK AND NOTIFY ARCHITECT IMMEDIATELY IF ANY ASBESTOS CONTAINING MATERIAL (ACM) OR SUSPECTED ACM IS FOUND DAMAGED OR DISTURBED. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUIT, ETC. AND TO PREVENT HAZARD TO PERSONNEL AND/OR TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THE DESIGN PROFESSIONALS ARE NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES, WHETHER OR NOT SHOWN ON AND INSTALLED BY THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DISTRICT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD). A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT. PROVIDE CONSTRUCTION AND FIRE SAFETY PER CFC CHAPTER 33. 	A005 ENLARGED DEMOLITION SITE PLAN A006 ENLARGED SITE PLAN A007 SITE NOTES & DETAILS CIVIL 1 SHEET C1.00 GRADING PLAN	PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2023 2022 California Administrative Code (CAC), Part 1, Title 24 C.C.R. 2022 California Building Code (CBC), Part 2, Title 24 C.C.R. 2022 California Electrical Code (CEC), Part 3, Title 24 C.C.R. 2022 California Mechanical Code (CMC), Part 4, Title 24 C.C.R. 2022 California Plumbing Code (CPC), Part 5, Title 24 C.C.R. 2022 California Energy Code (CEC), Part 6, Title 24 C.C.R. 2022 California Existing Building Code (CEBC), Part 10, Title 24 C. 2022 California Green Building Standards Code (CALGreen), Part 11, Title 24 C.C.R. 2022 California Referenced Standards Code, Part 12, Title 24 C.C.R. Title 19, C.C.R., Public Safety, State Fire Marshall Regulations APPLICABLE STANDARDS For a list of applicable standards, including California amendments to the NFPA Standards, refer to CBC Chapter 35 and CFC Chapter 80.	Consultant Seal Architect Seal Architect Seal Architect Seal Architect Seal Architect Seal Consultant Seal
F. DRINKING FOUNTAIN G. DECOMPOSED GRANITE A. DIAMETER M. DIMENSION S. DISPENSER W. DIVISION R. DOWN REF. REFERENCE REF. REFRIGERATOR RILL DOUBLE RET. REINFORCEMENT REJUIR REJILENT REV. REVERSE REV. REUGH OPENING REC. ELECTRIC REV. ELEVATION REC. ELECTRIC REV. EQUAL REC. EQUAL REC. EQUAL REC. EQUAL REC. EQUAL REC. EQUIPMENT REV. SCHEDULE REVERSER RAD. SCHEDULE REVERSER RAD. SCHEDULE REVERSER RAD. SCHEDULE REVERSER RAD. SCHEDULE REVERSER REF. REFRERCE REFICE REFICE REFICE REFICE REVERSER RAD. RADEN REV. SCHEDULE REVERSER REV. SCHEDULE REVERSER REV. SCHEDULE REVERSER REV. SCHEDULE REVERSER REV. SCHEDULE REVE	A. REPAIR OR REMOVAL OF HAZARDOUS OR UNSANITARY CONDITIONS. B. REMOVAL OF ABANDONED ITEMS AND ITEMS SERVING NO USEFUL PURPOSE SUCH AS ALL ABANDONED PIPING, CONDUIT AND WIRING. C. REMOVAL OF UNSUITABLE OR EXTRANEOUS MATERIALS NOT INDICATED FOR SALVAGE, SUCH AS ABANDONED FURNISHINGS AND EQUIPMENT, AND DEBRIS SUCH AS ROTTED WOOD, RUSTED METALS AND DETERIORATED CONCRETE. D. CLEANING OF ALL SURFACES AND REMOVAL OF SURFACE FINISHES AS NEEDED TO NSTALL NEW WORK AND FINISHES. 8. PATCH, REPAIR AND REFINISH EXISTING ITEMS TO REMAIN TO THE SPECIFIED CONDITION FOR EACH MATERIAL, WITH A CRAFTSMAN LIKE TRANSITION TO ADJACENT NEW ITEMS AND CONSTRUCTION. 9. PATCH AND EXTEND REPAIR WORK TO MEET AND MATCH EXISTING WORK USING SKILLED MECHANICS WHO ARE CAPABLE OF MATCHING EXISTING QUALITY OF WORKMANSHIP. QUALITY OF PATCHED OR EXTENDED WORK SHALL NOT BE LESS THAN THAT SPECIFIED FOR THE NEW WORK. 10. PRODUCTS FOR PATCHING, EXTENDING AND MATCHING: PROVIDE SAME PRODUCT OF TYPES OF CONSTRUCTION AS THAT IN EXISTING STRUCTURE, AS NEEDED TO PATCH, EXTEND OR MATCH EXISTING WORK. GENERALLY CONTRACT DOCUMENTS WILL NOT DEFINE PRODUCTS OF STANDARDS OR WORKMANSHIP	ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE ISSUED BEFORE PROCEEDING WITH THE WORK.	 19. A COMPLETE AND LEGIBLE COPY OF TITLE 24, PARTS 1 THROUGH 5 & 9, CCR, MUST BE KEPT ON SITE DURING CONSTRUCTION. 20. ALL WORK SHALL CONFORM TO 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATION (CCR). 21. THE SCOPE OF WORK IS INDICATED ON THE COVER SHEET. 22. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT. 		SCOPE OF WORK 1. REHABILITATION OF AN EXISTING SLOPED EARTHEN BANK INCLUDING, BUT NOT LIMITED TO, DEMOLITION, SITE CLEARING, GRADING, RETAINING WALL AND MOW STRIP CONSTRUCTION, CHAIN LINK FENCING, LANDSCAPE IRRIGATION AND PLANTING.	EN ELEMENTARY SCHOOL SANK RESTORATION EDALE DRIVE, WHITTIER, CA 90604 LL JOINT SCHOOL DISTRICT TLE SHEET
& CABINET FINISH FLOOR FINISH GRADE FIRE HYDRANT W.S. FLATHEAD WOOD SCREWS FINISH FLOW LINE SH. FLASHING ST. STAT. STATIONARY STD. STANDARD STO. STORAGE SCREWS STRUCT. STRUCTURAL FINISH SUSP. SUSPENDED FLOW LINE SH. FLASHING SYM. SYMMETRICAL T. TREAD OR. FLUORESCENT C. FACE OF CONCRETE F. FACE OF FINISH M. FACE OF MASONRY T.C. TOP & BOTTOM S. FACE OF STUD T.D. TOWEL DISPENSER A. FIRE RATED ASSEMBLY P. FIBERGLASS REINFORCED PANELS FLOOR SINK FOOT OR FEET T.O.S. TOP OF ROOFING FOOT OR FEET T.O.S. TOP OF SHEATING T.P. TOP OF PAVING	STANDARDS OF QUALITY. 12. PATCH OR REPLACE ANY PORTION OF AN EXISTING FINISHED SURFACE WHICH IS FOUND TO BE DAMAGED, LIFTED, DISCOLORED OR SHOWS OTHER IMPERFECTIONS WITH MATCHING MATERIAL. A. PROVIDE ADEQUATE SUPPORT OF SUBSTRATE PRIOR TO PATCHING THE FINISH. B. REFINISH PATCHED PORTIONS OF PAINTED OR COATED SURFACES IN A MANNER TO PRODUCE UNIFORM COLOR AND TEXTURE OVER THE ENTIRE SURFACE.	SECTION CUT- DRAWING NO. BUILDING SECTION TAG SHEET NO. A	OWNER LOWELL JOINT SCHOOL DISTRICT 11019 VALLEY HOME AVE. WHITTIER, CA 90603 TEL: 562.902.4291 CONTACT: DAVID BENNETT ARCHITECT GHATAODE BANNON ARCHITECTS 760 W. 16TH STREET, UNIT B COSTA MESA, CA 92627 TEL: 714.665.8030 FAX: 714.665.8029			MEADOW GREI SLOPED I
FURR. FURRING T.V. FIELD VERIFY SA. GAUGE SA. GAUGE SALV. GALVANIZE SALV. TELL. TELLEPHONE TEMP. TEMPERATURE TERRAZZO TR. TRANSOM TRANSF. TRANSFORMER TYP. TYPICAL SYP. GYPSUM U.N.O. UNLESS NOTED OTHERWISE H.M. HOLLOW METAL HOLLOW METAL HOUR H.B. HOSE BIBB H.M. HOLLOW METAL HOUR H.T. HEIGHT HTT. HEIGHT HTG. HEATING HOWD. HARDWOOD VAR. VARIES V.C.T. VINYL COMPOSITIO TILLE NV. INVERT NV. INVERT NV. INVERT V.F.W.C. VINYL FABRIC WAL SALVATORY VAM. PLAS. LAMINATED PLASTIC AV. LAVATORY W. W. W. W. W. W. WOOD V.R. WATER CLOSET W. W	ANY DAMAGE INCURRED DUE TO FAILURE BY THE CONTRACTOR TO PROPERLY PROTECT SUCH WORK, SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE. 16. CONTRACTOR SHALL INCLUDE THE REMOVAL OF ALL ITEMS WITHIN THE WALLS, OR PORTIONS OF WALLS BEING REMOVED IN HIS SCOPE OF WORK. ABANDONED CONDUIT AND PIPING EXTENDING FROM THE CONCRETE SLAB SHALL BE REMOVED AND CAPPED PROPERLY.	ROOM NAME——CLASSROOM ROOM NO.————————————————————————————————————	CIVIL ENGINEER FPL and Associates, Inc. 10 COPORATE PARK, SUITE 310 IRVINE, CA 92606 TEL: (949) 252—1688 CONTACT: RON CANEDY LANDSCAPE ARCHITECT NUVIS LANDSCAPE ARCHITECTURE 20250 SW ACACIA ST., SUITE 260 NEWPORT BEACH, CA 92660 TEL: (714) 754—7311 CONTACT: BOB STONE		WEADOW GREEN ELEMENTARY SCHOOL 12025 GROVEDALE Dr WHITTIER, CA 90604	REVISIONS:









<u>Earthquake:</u> Risk Category __ || 1,000 psf 1.0 <u>45</u> pcf 1.704 __.605 __150__pcf Site Class 1.363

DESIGN LOADS:

.606 Design Category Base Shear

.41 WT (USD) Equivalent Analysis Procedure Lateral Force **ARCHITECTS**

BANNON

GHATAODE

- All construction and workmanship shall conform to the 2022 California Building Code.
- These notes shall be used in conjunction with the plans and any discrepancies shall be brought to the attention of the Architect/Engineer.
- Contractor must check all dimensions, framing conditions, and site conditions before starting work. Architect/Engineer shall be notified immediately of any discrepancies or possible deficiencies.
- Conditions not specifically shown shall be constructed similar to the details for the respective materials.
- The drawings and specifications represent the finished structure. All bracing, temporary supports, shoring, etc. is the sole responsibility of the contractor. Observation visits to the job site by the Architect/Engineer do not include inspection of construction procedures. The contractor is solely responsible for all construction methods and conditions at the worksite. These visits will not be construed as continuous and detailed
- Design, material, equipment, and products other than those described below or indicated on the drawings may be considered for use, provided prior approval is obtained from the Owner, Architect/Engineer, and the applicable governing code authority.
- All conditions noted as existing are based on the best information currently available at the time of preparation of these drawings. The Contractor is to verify all conditions before starting work. Should conditions arise which are different from those shown on the drawings, the Architect/Engineer shall be notified immediately and additional drawings based on more accurate information will be prepared.

TESTS AND INSPECTIONS

- Continuous inspection by a registered deputy inspector is required for all concrete with a strength greater than 2500 psi, and post—installed concrete anchors. The extent of tests and inspection shall conform to Chapter 17 of the California Building Code. An affidavit shall be issued to the Architect/Engineer and the Building Department at the completion of each type of work stating whether the work was in conformance with the approved plans and specifications. Concrete inspection may be limited to slump tests. compression tests, and inspection of placed rebar, inspection of concrete placement and verification of design mix.
- The following items require inspection by a licensed Deputy

ITEM	YES	NO
Post— Installed Anchors	X	
Concrete	X	

- Concrete tests shall conform to ACI C6.12
- 4. Provide test specimens under guidance & inspection by Deputy
- See also Note 21 of Shotcrete.
- All existing fill soil and disturbed natural soils are to be excavated and replaced with properly compacted fill. All filling, backfilling, recompaction, etc. is to be accomplished only under the supervision of a soils engineer.
- All excavations are to be inspected and approved by a Soils Engineer prior to the placement of any concrete or reinforcing
- Footings are to be carried a minimum of 12" into firm undisturbed natural soil or approved compacted fill.
- Design bearing pressure is 1,000 psf with a 33% increase for seismic or wind loading.
- Excavations shall be constructed using AB slot cut method. Once concrete attains full strength, B slots may be excavated. Compacted slope may be re-established at the same time once concrete attains full strength under direction of a soils engineer. Key bottom of slope as directed by the soils engineer.

FORMWORK, REMOVAL OF FORMS AND SHORES

- The Contractor shall design all forms and supporting shores in conformance with ACI 347R-14. Design shall include rate and method of placing concrete and construction loads, including vertical, horizontal, and impact loads. Forms shall be substantial and sufficiently tight to prevent leakage of mortar and properly braced or tied to maintain position and shape.
- Forms shall be removed in such a manner as not to impair safety and serviceability of the structure. All concrete to be exposed by form removal shall have sufficient strength not to be damaged thereby. The ACI Committee 347 suggests the following minimum time forms and supports should remain in place under ordinary conditions: Walls 12 Hours
- Reshore until 28 days after placement, and for full duration where construction loads exceed specified service loads. Reshore shall conform to ACI 347R-14.

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REVISIONS:

3/14/2023 #2101.2

A007

OF XXX

SHEET XRFF:

GENERAL NOTES FOR GRADING:

- ALL GRADING SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, TITLE 24, PART 2, VOLUME 2 OF 2, APPENDEX J,
- ALL GRADING AND CONSTRUCTION ACTIVITIES SHALL COMPLY WITH COUNTY OF LOS ANGELES CODE, TITLE 12, SECTION 12.12.030 THAT CONTROLS AND RESTRICTS NOISE FROM THE USE OF CONSTRUCTION AND GRADING EQUIPMENT FROM THE HOURS OF 8:00 PM TO 6:30 AM, AND ON SUNDAYS AND HOLIDAYS.
- CALIFORNIA PUBLIC RESOURCES CODE (SECTION 5097.98) AND HEALTH AND SAFETY CODE (SECTION 7050.5) ADDRESS THE DISCOVERY AND DISPOSITION OF HUMAN REMAINS. IN THE EVENT OF DISCOVERY OR RECOGNITION OF ANY HUMAN REMAINS IN ANY LOCATION OTHER THAN A DEDICATED CEMETERY, THE LAW REQUIRES THAT GRADING IMMEDIATELY STOPS AND NO FURTHER EXCAVATION OR DISTURBANCE OF THE SITE, OR ANY NEARBY AREA WHERE HUMAN REMAINS MAY BE LOCATED, OCCUR UNTIL
- THE FOLLOWING HAS BEEN MEASURES HAVE BEEN TAKEN: A. THE COUNTY CORONER HAS BEEN INFORMED AND HAS DETERMINED THAT NO INVESTIGATION OF THE CAUSE OF DEATH IS REQUIRED, AND
- B. IF THE REMAINS ARE OF NATIVE AMERICAN ORIGIN, THE DESCENDANTS FROM THE DECEASED NATIVE AMERICANS HAVE MADE A RECOMMENDATION FOR THE MEANS OF TREATING OR DISPOSING, WITH APPROPRIATE DIGNITY, OF THE HUMAN REMAINS ALL EXPORT OF MATERIAL FROM THE SITE MUST GO TO A LEGAL DUMPSITE. RECEIPTS FOR ACCEPTANCE OF EXCESS MATERIAL
- BY A DUMPSITE ARE REQUIRED AND MUST BE PROVIDED TO THE OWNER UPON REQUEST. 5. A PREVENTIVE PROGRAM TO PROTECT THE SLOPES FROM POTENTIAL DAMAGE FROM BURROWING RODENTS IS REQUIRED PER SECTION J101.8 OF THE COUNTY OF LOS ANGELES BUILDING CODE. OWNER IS TO INSPECT SLOPES PERIODICALLY FOR EVIDENCE OF BURROWING RODENTS AND A FIRST EVIDENCE OF THEIR EXISTENCE SHALL EMPLOY AN EXTERMINATOR FOR THEIR REMOVAL. ALL CONSTRUCTION/DEMOLITION, GRADING, AND STORAGE OF BULK MATERIALS MUST COMPLY WITH THE LOCAL AQMD RULE 403
- FOR FUGITIVE DUST. INFORMATION ON RULE 403 IS AVAILABLE AT AQMD'S WEBSITE HTTP://WWW.AVAQMD.COM. A SOILS ENGINEER SHALL PROVIDE SUFFICIENT INSPECTIONS DURING THE PREPARATION OF THE NATURAL GROUND AND THE PLACEMENT AND COMPACTION OF THE FILL TO BE SATISFIED THAT THE WORK IS BEING PERFORMED IN ACCORDANCE WITH THE PLAN AND APPLICABLE CODE REQUIREMENTS.

INSPECTION NOTES

- 8. THE CONTRACTOR SHALL NOTIFY DSA INSPECTOR OF RECORD AT LEAST ONE WORKING DAY IN ADVANCE OF REQUIRED INSPECTIONS AT FOLLOWING STAGES OF THE WORK.
- (A) PRE-GRADE BEFORE THE START OF ANY EARTH DISTURBING ACTIVITY OR CONSTRUCTION.
- (B) INITIAL WHEN THE SITE HAS BEEN CLEARED OF VEGETATION AND UNAPPROVED FILL HAS BEEN SCARIFIED, BENCHED OR OTHERWISE PREPARED FOR FILL FILL SHALL NOT BE PLACED PRIOR TO THIS INSPECTION. NOTE: PRIOR TO ANY CONSTRUCTION ACTIVITIES, INCLUDING GRADING, ALL STORM WATER POLLUTION PREVENTION MEASURES INCLUDING EROSION CONTROL DEVICES WHICH CONTAIN SEDIMENTS MUST BE INSTALLED.
- (C) ROUGH WHEN APPROXIMATE FINAL ELEVATIONS HAVE BEEN ESTABLISHED; DRAINAGE TERRACES, SWALES AND BERMS INSTALLED AT THE TOP OF THE SLOPE; AND THE STATEMENTS REQUIRED IN THIS SECTION HAVE BEEN RECEIVED.
- WHEN GRADING HAS BEEN COMPLETED: ALL DRAINAGE DEVICES INSTALLED: SLOPE PLANTING ESTABLISHED. IRRIGATION SYSTEMS INSTALLED AND THE AS-BUILT PLANS, REQUIRED STATEMENTS, AND REPORTS HAVE BEEN SUBMITTED AND APPROVED.

FILL NOTES

- ALL FILL SHALL BE COMPACTED TO THE FOLLOWING MINIMUM RELATIVE COMPACTION CRITERIA:
- A. 90 PERCENT OF MAXIMUM DRY DENSITY WITHIN 40 FEET BELOW FINISH GRADE. THE RELATIVE COMPACTION SHALL BE DETERMINED BY A.S.T.M. SOIL COMPACTION TEST D1557.
- 2. FIELD DENSITY SHALL BE DETERMINED BY A METHOD ACCEPTABLE TO THE DSA I.O.R. HOWEVER, NOT LESS THAN 10% OF THE REQUIRED DENSITY TEST, UNIFORMLY DISTRIBUTED, AND SHALL BE OBTAINED BY THE SAND CONE METHOD. SUFFICIENT TESTS OF THE FILL SOILS SHALL BE MADE TO DETERMINE THE RELATIVE COMPACTION OF THE FILL IN ACCORDANCE WITH THE FOLLOWING MINIMUM GUIDELINES:
- A. ONE TEST FOR EACH TWO-FOOT VERTICAL LIFT.
- B. ONE TEST FOR EACH 1,000 CUBIC YARDS OF MATERIAL PLACED.
- SUFFICIENT TESTS OF FILL SOILS SHALL BE MADE TO VERIFY THAT THE SOIL PROPERTIES COMPLY WITH THE DESIGN REQUIREMENTS, AS DETERMINED BY THE SOIL ENGINEER INCLUDING SOIL TYPES, SHEAR STRENGTHS PARAMETERS AND CORRESPONDING UNIT WEIGHTS IN ACCORDANCE WITH THE FOLLOWING GUIDELINES: A. PRIOR AND SUBSEQUENT TO PLACEMENT OF THE FILL, SHEAR TESTS SHALL BE TAKEN ON EACH TYPE OF SOIL OR SOIL
- MIXTURE TO BE USED FOR ALL FILL SLOPES STEEPER THAN THREE (3) HORIZONTAL TO ONE VERTICAL. B. SHEAR TEST RESULTS FOR THE PROPOSED FILL MATERIAL MUST MEET OR EXCEED THE DESIGN VALUES USED IN THE GEOTECHNICAL REPORT TO DETERMINE SLOPE STABILITY REQUIREMENTS. OTHERWISE, THE SLOPE MUST BE REEVALUATED USING THE ACTUAL SHEAR TEST VALUE OF THE FILL MATERIAL THAT IS IN PLACE.
- C. FILL SOILS SHALL BE FREE OF DELETERIOUS MATERIALS. 5. FILL SHALL NOT BE PLACED UNTIL STRIPPING OF VEGETATION, REMOVAL OF UNSUITABLE SOILS, AND INSTALLATION OF SUBDRAIN (IF ANY) HAVE BEEN INSPECTED AND APPROVED BY THE SOIL ENGINEER. THE BUILDING OFFICIAL MAY REQUIRE A "STANDARD TEST MÉTHOD FOR MOISTURE, ASH, ORGANIC MATTER, PEAT OR OTHER ORGANIC SOILS" ASTM D-2974-87 ON ANY SUSPECT MATERIAL. DETRIMENTAL AMOUNTS OF ORGANIC MATERIAL SHALL NOT BE PERMITTED IN FILLS. SOIL CONTAINING SMALL AMOUNTS

OF ROOTS MAY BE ALLOWED PROVIDED THAT THE ROOTS ARE IN A QUANTITY AND DISTRIBUTED IN A MANNER THAT WILL NOT BE

DETRIMENTAL TO THE FUTURE USE OF THE SITE AND THE SOILS ENGINEER APPROVES THE USE OF SUCH MATERIAL. ROCK OR SIMILAR MATERIAL GREATER THAN 4 INCHES IN DIAMETER SHALL NOT BE PLACED IN THE FILL UNLESS RECOMMENDATIONS FOR SUCH PLACEMENT HAVE BEEN SUBMITTED BY THE SOIL ENGINEER AND APPROVED IN ADVANCE BY THE BUILDING OFFICIAL CONTINUOUS INSPECTION BY THE SOIL ENGINEER, OR A RESPONSIBLE REPRESENTATIVE, SHALL BE PROVIDED DURING ALL FILI PLACEMENT AND COMPACTION OPERATIONS WHERE FILLS HAVE A DEPTH GREATER THAN 30 FEET OR SLOPE SURFACE STEEPER

HORIZONTAL CONTROL

AN AUTOCAD GEOMETRIC ELECTRONIC FILE SHALL BE MADE AVAILABLE TO THE CONTRACTOR UPON REQUEST FOR THE CONTRACTOR'S SURVEYOR TO LAYOUT THE CONSTRUCTION STAKING OF THE PROJECT. THE SURVEYOR OR CONTRACTOR WILL NEED TO SIGN A WAIVER FORM BEFORE RELEASE OF ANY CAD ELECTRONIC DRAWINGS.

BENCHMARK

COUNTY OF LOS ANGELES PUBLISHED BENCHMARK BY11484, ELEVATION OF 257.324 FEET, USED TO ESTABLISH VERTICAL CONTROL

ABBREVIATIONS ABANDONED MANHOLE ASPHALT PAVEMENT NATURAL GROUND ANGLE POINT NOT IN CONTRACT BLDG BUILDING PORTLAND CEMENT CONRETE BC BEGINNING OF CURVE PROPERTY LINE BACK OF WALK POST INDICATOR VALVE CENTERLINE POWER POLE CURB FACE HEIGHT REGISTERED CIVIL ENGINEER CLF CHAIN LINK FENCE RAILROAD CONC CONCRETE DETECTOR CHECK VALVE STORM DRAIN MANHOLE DESC DESCRIBED STREET LIGHT D/W DRIVEWAY SEWER MANHOLE DROP INLET S.P.P.W.C. STANDARD PLANS FOR PUBLIC WORKS EP EDGE OF PAVEMENT CONSTRUCTION (2021 EDITION). EC END OF CURVE STANDARD SPECIFICATIONS FOR PUBLIC EX **EXISTING** WORKS CONSTRUCTION (GREEN BOOK), FG FINISH GRADE 2021 EDITION FΗ FIRE HYDRANT SIDEWALK FLOWLINE TOP OF CURB FS FINISH SURFACE TELEPHONE GA GUY ANCHOR TOP OF GRATE GRADE BREAK TOP OF CLEANOUT **GUARD POST** TRAFFIC SIGN GV GAS VALVE TOP OF WALL HB HOSE BIBB TYPICAL HIGH POINT UNDERGROUND CONDUIT ICV IRRIGTION CONTROL VALVE UTILITY INV INVERT WATER METER IRON PIPE WATER VALVE LENGTH WATER VAULT LIP OF GUTTER VERIFY IN FIELD LIGHT POLE L T & T LEAD TACK AND TAG

EARTHWORK NOTICE TO CONTRACTOR: NO EARTHWORK ANALYSIS HAS BEEN COMPLETED WITH RESPECT TO VOLUMES OF SOILS TO BE EXCAVATED, PLACED, OR IMPORTED IN ORDER TO PROVIDE THE FINISHED GRADES SHOWN ON THE PLANS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE EARTHWORK QUANTITIES NECESSARY TO COMPLETE THE PROJECT.

GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

CONSTRUCTION STORM WATER NOTE

GRADING WORK ASSOCIATED WITH THIS PROJECT WILL DISTURB LESS THAN 1 ACRE OF SOIL AND THUS SHALL NOT BE SUBJECT TO COMPLY WITH THE NPDES STORMWATER CONSTRUCTION GENERAL PERMIT 2009-0009-DWQ.

ALL RETAINING WALL FOOTING AREAS SHALL BE UNDERCUT, MOISTENED, AND COMPACTED AS NECESSARY TO PRODUCE SOILS COMPACTED TO A MINIMUM OF 90% RELATIVE COMPACTION TO A DEPTH OF 2 FEET BELOW THE BOTTOM OF THE FOOTING. FOOTING AREAS SHALL BE DEFINED AS THE AREA EXTENDING FROM THE EDGE OF THE FOOTING FOR A DISTANCE OF 3 FEET INTO THE SITE. THE EXPOSED SOILS BENEATH ALL OVEREXCAVATION SHOULD BE SCARIFIED AN ADDITIONAL 12 INCHES, MOISTURE CONDITIONED AND COMPACTED TO A MINIMUM OF 90% RELATIVE COMPACTION.

GENERAL NOTES FOR GRADING CONTINUED:

- A COPY OF THE DIVISION OF STATE ARCHITECT APPROVED PRECISE GRADING PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE JOB SITE AT ALL TIMES.
- THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE WORK SITE CLEAN AND FREE FROM RUBBISH AND DEBRIS. THE CONTRACTOR SHALL ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING AND SPRINKLING WITH WATER AND USING DUST FENCES OR OTHER METHODS AS DIRECTED BY THE CONSTRUCTION MANAGER OR FIELD INSPECTOR THROUGHOUT THE CONSTRUCTION OPERATION AND SHALL
- 3. THE CONTRACTOR SHALL KEEP A STRICT RECORD OF ALL CHANGES THAT OCCUR DURING CONSTRUCTION PRACTICES AND SUBMIT THIS RECORD TO THE SCHOOL DISTRICT & DSA CERTIFIED AS "RECORD DRAWING" PLANS.
- 4. ALL DAMAGE CAUSED TO PUBLIC STREETS, INCLUDING HAUL ROUTES, ALLEYS, SIDEWALKS, CURBS OR STREET FURNISHINGS, OR TO PRIVATE PROPERTY SHALL BE REPAIRED AT THE SOLE EXPENSE OF THE CONTRACTOR TO THE ENGINEER'S SATISFACTION.
- 5. THE CONTRACTOR SHALL REMOVE AND REPLACE ANY BROKEN OR DAMAGED SIDEWALK, CURB, GUTTER OR ASPHALT PAVING AND TURF (PATCH, REPAIR OR OVERLAY) CAUSED BY THEIR WORK ON THIS PROJECT AT THE DIRECTION OF THE OWNER.
- ALL DELETERIOUS MATERIAL (I.E. LUMBER, LOGS, BRUSH, RUBBISH, ETC.) SHALL BE REMOVED FROM ALL AREAS TO RECEIVE COMPACTED FILL AND HAULED TO DUMP-SITE APPROVED BY THE ENGINEER.
- ALL TREE ROOTS, ABANDONED IRRIGATION LINES, UTILITY SERVICES AND SIMILAR MATERIALS ENCOUNTERED DURING EXCAVATION SHALL BE REMOVED FROM THE SITE AND VOIDS CREATED THEREBY SHALL BE PROPERLY FILLED AND COMPACTED AS DIRECTED
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING STORM DAMAGE PREVENTION MEASURES OR EROSION CONTROL DEVICES AND/OR TO PERFORM CERTAIN GRADING TO PREVENT SOIL OR EXCESS RUNOFF FROM FLOWING INTO PUBLIC STREETS OR ADJACENT PROPERTIES. IN THE EVENT OF SUCH AN OCCURRENCE, CLEANUP SHALL COMMENCE IMMEDIATELY. SHOULD CITY FORCES OR THE CITY CONTRACTOR PERFORM ANY CLEANUP RESULTING FROM THIS DEVELOPMENT, THE CONTRACTOR SHALL PAY THE COST INCURRED WITHIN TEN (10) WORKING DAYS UPON RECEIPT OF BILLING.
- 9. EITHER WATER OR DUST PALLIATIVE, OR BOTH, MUST BE APPLIED FOR THE ALLEVIATION OR PREVENTION OF EXCESSIVE DUST RESULTING FROM THE LOADING OR TRANSPORTATION OF EARTH FROM OR TO THE PROJECT SITE OR PRIVATE AND PUBLIC
- 10. NO OVERSIZE OR OVERWEIGHT LOADS ARE PERMITTED WITHOUT A SEPARATE MOVING PERMIT.
- 11. ALL EQUIPMENT USED TO HAUL EXCAVATION OR FILL MATERIAL FROM OR TO THE SITE SHALL FOLLOW A DESIGNATED ROUTE OR ROUTES IN GOING TO AND FROM THE SITE. THE CONTRACTOR SHALL BE ENTITLED TO THE DESIGNATION OF A ROUTE PROVIDING ACCESS TO A SPECIFIED PLACE OTHER THAN THE SITE, AFTER SHOWING TO THE SATISFACTION OF THE CITY BUILDING OFFICIAL THAT SUCH SPECIFIED PLACE IS A PLACE WHERE EXCAVATION MATERIAL MAY BE REASONABLY DEPOSITED OR FILL MATERIAL MAY BE OBTAINED. A SEPARATE ENCROACHMENT PERMIT IS REQUIRED WHEN IT IS NECESSARY TO FLAG TRAFFIC OR INSTALL ANY TRAFFIC CONTROL DEVICES ON CITY RIGHT-OF-WAY.
- 12. ANY EARTH ROCK, GRAVEL, SAND, STONE OR OTHER EXCAVATED MATERIAL DEPOSITED OR CAUSED TO ROLL, FLOW OR WASH UPON ANY PUBLIC PLACE OR PRIVATE PROPERTY SHALL BE REMOVED FROM SUCH PUBLIC PLACE OR PRIVATE PROPERTY BY THE END OF THE WORKDAY BY THE CONTRACTOR RESPONSIBLE FOR THE DEPOSITION. IF AN ADVERSE CONDITION IS CAUSED BY DEPOSIT, THE CONDITION SHALL BE CORRECTED IMMEDIATELY.
- 13. EVERY EFFORT SHOULD BE MADE TO ELIMINATE THE DISCHARGE OF NON-STORMWATER FROM THE PROJECT SITE AT ALL TIMES.
- 14. ALL TRUCKS HAULING DIRT, SAND, OIL, OR OTHER LOOSE MATERIALS ARE TO BE COVERED OR SHOULD MAINTAIN AT LEAST TWO FEET OF FREEBOARD IN ACCORDANCE WITH THE REQUIREMENTS OF CVC SECTION 23114.
- 15. NO PERSON SHALL, WHEN HAULING ANY EARTH, SAND, GRAVEL, ROCK, STONE OR OTHER EXCAVATED MATERIAL OR DEBRIS OVER ANY PUBLIC STREET, ALLEY OR OTHER PUBLIC PLACE, ALLOW SUCH MATERIAL TO BLOW OR SPILL OVER UPON SUCH STREET, ALLEY OR PUBLIC PLACE OR ADJACENT PRIVATE PROPERTY OR ANY WATER BODIES, CREEKS OR STREAMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP AND REMOVAL OF ANY CONSTRUCTION OR SOILS MATERIALS DEPOSITED ON THE PUBLIC RIGHT-OF-WAY, PUBLIC WATERS OR ADJACENT PRIVATE PROPERTY.

CONSTRUCTION NOTES:

BY THE SOILS ENGINEER.

- (P) PROTECT EXISTING IMPROVEMENT IN PLACE.
- (1) CONSTRUCT RETAINING WALL AND FENCE PER DETAIL 27/A007. FACE OF WALL TO BE A MINIMUM OF 2" BEHIND PROPERTY LINE.
- (2) CONSTRUCT CHAIN-LINK FENCE & CONCRETE MOW STRIP PER DETAIL 29/A007. CONCRETE TO BE MINIMUM 560-C-3250 PER S.S.P.W.C. SECTION 201-1.
- 3) CONSTRUCT CONCRETE MOW STRIP PER DETAIL 30/A007. CONCRETE TO BE MINIMUM 520-C-2500 PER S.S.P.W.C. SECTION 201-1.
- R1) REMOVE & DISPOSE OF EXISTING CHAIN LINK FENCE, POSTS & FOOTINGS. (R2) REMOVE & DISPOSE OF EXISTING TREE & ROOTS.

HATCH LEGEND:

= EXISTING BUILDING

= NEW RETAINING WALL

- — — — — —

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SCALE: 1" = 20'

GREEN ELI PED BANK DOW G

ENTARY SCHOOSTOR

ARCHITECT

GHATAODE

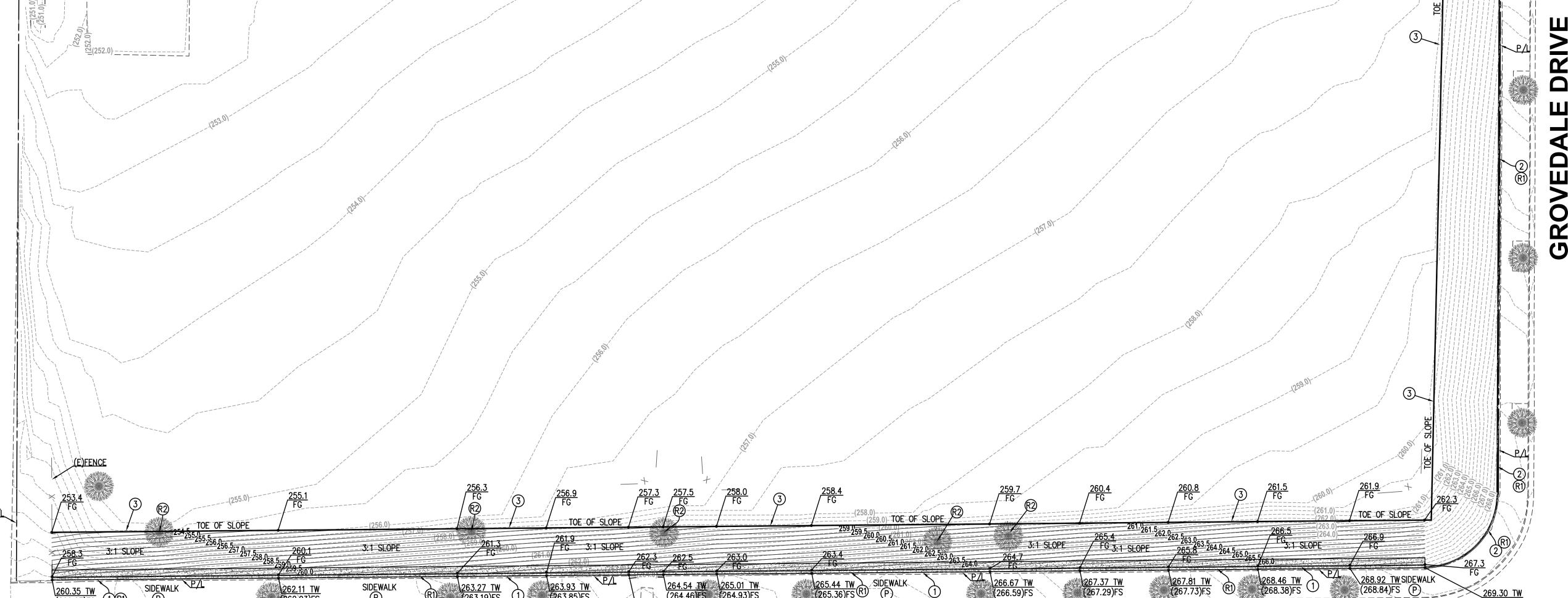
REVISIONS:

3/14/2023 #2101.2

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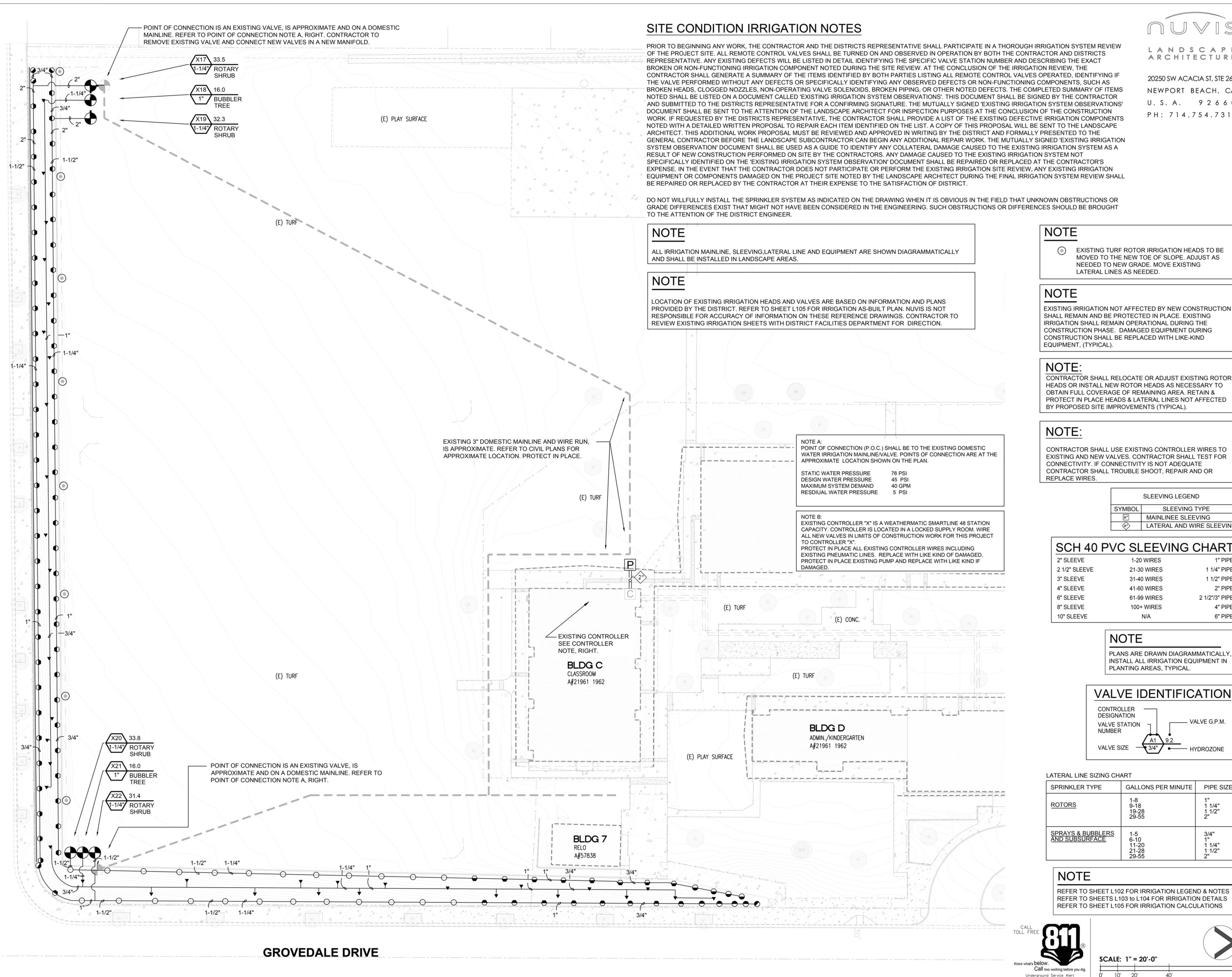


SILVERGROVE DRIVE

NOTE TO CONTRACTOR: CLEAR, GRUB AND REMOVE FROM THE SITE ALI EXISTING LANDSCAPE MATERIAL ON THE EXISTING SLOPE WHERE THE NEW LANDSCAPE IS TO BE INSTALLED. REFER TO L201



FOR WORK WITHIN, OR NEAR, THE PUBLIC RIGHT-OF-WAY





EXISTING TURF ROTOR IRRIGATION HEADS TO BE

MOVED TO THE NEW TOE OF SLOPE. ADJUST AS

NEEDED TO NEW GRADE. MOVE EXISTING

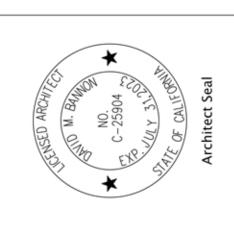
LATERAL LINES AS NEEDED

LANDSCAPE ARCHITECTURE

20250 SW ACACIA ST, STE 260 NEWPORT BEACH, CA U.S.A. 92660 PH: 714.754.7311

ARCHITECTS GHATAODE

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NOTE:

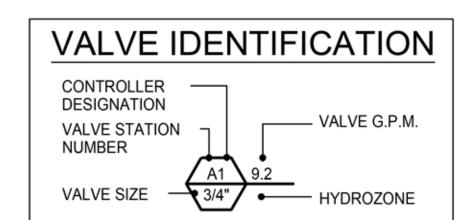
CONTRACTOR SHALL USE EXISTING CONTROLLER WIRES TO EXISTING AND NEW VALVES. CONTRACTOR SHALL TEST FOR CONNECTIVITY. IF CONNECTIVITY IS NOT ADEQUATE CONTRACTOR SHALL TROUBLE SHOOT, REPAIR AND OR REPLACE WIRES.

	SLEEVING LEGEND
SYMBOL	SLEEVING TYPE
X"	MAINLINEE SLEEVING
*	LATERAL AND WIRE SLEEVING

SCH 40 PVC SLEEVING CHART

2" SLEEVE	1-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" PIPE
6" SLEEVE	61-99 WIRES	2 1/2"/3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE

PLANS ARE DRAWN DIAGRAMMATICALLY. INSTALL ALL IRRIGATION EQUIPMENT IN PLANTING AREAS, TYPICAL.

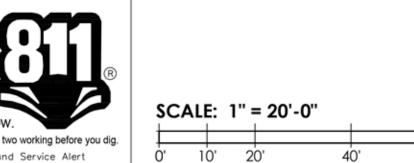


LATERAL LINE SIZING CHART

EATERAL LINE SIZING OTI	313.1	
SPRINKLER TYPE	GALLONS PER MINUTE	PIPE SIZE
ROTORS	1-8 9-18 19-28 29-55	1" 1 1/4" 1 1/2" 2"
SPRAYS & BUBBLERS AND SUBSURFACE	1-5 6-10 11-20 21-28 29-55	3/4" 1" 1 1/4" 1 1/2" 2"

NOTE

REFER TO SHEET L102 FOR IRRIGATION LEGEND & NOTES REFER TO SHEETS L103 to L104 FOR IRRIGATION DETAILS REFER TO SHEET L105 FOR IRRIGATION CALCULATIONS





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REVISIONS:

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IRRIGATION NOTES

- 1. THE CONTRACTOR SHALL REVIEW RELATED DRAWINGS AND SHALL ENSURE COORDINATION WITH ALL APPLICABLE TRADES PRIOR TO SUBMITTING BID.
- 2. OPERATE IRRIGATION CONTROLLER(S) BETWEEN THE HOURS OF 10:00 PM AND 7:00 AM.
- NOTIFY UNDERGROUND SERVICE ALERT AT 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS, AS DESCRIBED IN THE SPECIFICATIONS, AND IN ACCORDANCE WITH APPLICABLE CODES AND ORDINANCES BY LICENSED CONTRACTORS AND EXPERIENCED WORKERS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES RELATING TO THEIR WORK.
- DESIGN REFLECTS COMPLIANCE WITH CALIFORNIA STATE ASSEMBLY BILL 325 (AB 325) AND THE STATE'S MODEL ORDINANCE AND/OR THE LOCAL GOVERNING AGENCY'S ADOPTED WATER EFFICIENT LANDSCAPE ORDINANCE.
- DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTMENTS NECESSARY TO CONFORM TO ACTUAL FIELD CONDITIONS. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM, PLANTING AND ARCHITECTURAL FEATURES PARALLEL PIPES MAY BE INSTALLED IN COMMON TRENCH. PIPES ARE NOT TO BE INSTALLED DIRECTLY ABOVE ONE ANOTHER.
- 7. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, WHICH MAY BE REQUIRED. CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL WORK AND PLAN WORK ACCORDINGLY, TO FURNISH ALL REQUIRED MATERIAL. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THE WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS, PLANTING, AND ARCHITECTURAL FEATURES.
- IRRIGATION SLEEVES SHOWN FOR MAJOR STREET AND DRIVEWAY CROSSINGS FOR CLARITY ONLY. ALL PIPE SLEEVES TO BE MINIMUM 2X DIAMETER OF PIPE. ALL MAINLINE SHALL BE ACCOMPANIED WITH A MINIMUM 2-INCH DIAMETER WIRE SLEEVE. SLEEVING TO EXTEND MINIMUM 12 INCHES BEYOND PAVING OR AS NECESSARY TO ACCESS. CONTRACTOR SHALL INSTALL SLEEVING BELOW ALL PAVING, HARDSCAPE, ETC. AS SHOWN AND AS DIRECTED BY ENGINEER. IN ADDITION TO THE SLEEVES AND CONDUITS SHOWN ON THE DRAWINGS. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF SLEEVES AND CONDUITS OF SUFFICIENT SIZE UNDER ALL PAVED AREAS.
- 9. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNERS/OWNER'S AUTHORIZED REPRESENTATIVE IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY
- 10. CONTRACTOR SHALL FLUSH ALL LINES AND ADJUST ALL HEADS FOR OPTIMUM PERFORMANCE IN ACCORDANCE WITH THE SPECIFICATIONS AND TO PREVENT OVERSPRAY ONTO HARDSCAPE AREAS OR STRUCTURAL ELEMENTS. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT ACTUAL SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM. ALL MAINLINES SHALL BE FLUSHED PRIOR TO THE INSTALLATION OF IRRIGATION HEADS. AT 30 DAYS AFTER INSTALLATION EACH SYSTEM SHALL BE FLUSHED TO ELIMINATE GLUE AND DIRT PARTICLES FORM THE LINES. COSTS INCURRED DUE TO ANY ADJUSTMENTS FOR 100% COVERAGE, INCLUDING THOSE REQUESTED BY THE OWNERS/OWNER'S AUTHORIZED REPRESENTATIVE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 11. SYSTEM DESIGN IS BASED ON A MINIMUM OPERATING PRESSURE XX.X (P.S.I.) AND A MAXIMUM DEMAND XX.X (G.P.M.) AS SHOWN AT EACH POINT OF CONNECTION ON THE DRAWINGS. CONTRACTOR SHALL VERIFY PRESSURE AND DEMAND AT EACH POINT OF CONNECTION PRIOR TO COMMENCING INSTALLATION AND SUBMIT SUCH IN WRITING TO THE DISTRICTS/DISTRICT'S AUTHORIZED REPRESENTATIVE. IF ANY DISCREPANCIES EXIST. THEY SHOULD BE BROUGHT. TO THE IMMEDIATE ATTENTION OF THE DISTRICT/DISTRICT'S AUTHORIZED. REPRESENTATIVE.
- 12. EQUIPMENT SHOWN IN HARDSCAPE AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED WHENEVER POSSIBLE WITHIN PLANTED AREAS A REASONABLE. REACHABLE DISTANCE FROM HARDSCAPE OR TURF AREAS
- 13. UNLESS OTHERWISE NOTED ON THE DRAWINGS, CONTRACTOR SHALL INSTALL WIRE AND PIPE UNDER HARDSCAPE AREAS IN P.V.C. SCHEDULE 40 SLEEVES PLACED PRIOR TO INSTALLING HARDSCAPE IN ACCORDANCE WITH APPLICABLE CODES
- 14. WHEREVER POSSIBLE, CONTROL WIRES SHALL OCCUPY THE SAME TRENCH AS PIPES.
- 15. EACH CONTROLLER SHALL HAVE ITS OWN INDEPENDENT GROUND WIRE.
- 16. SPLICING OF 24 VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. CONTRACTOR TO LEAVE A 24" COIL OF EXCESS WIRE AT EACH SPLICE AND EVERY 100' ON CENTER ALONG WIRE RUN. TAPE WIRE BUNDLES 10' ON CENTER. NO TAPING WILL BE PERMITTED INSIDE SLEEVES.
- 17. WIRE CONNECTORS SHALL BE 3M-DBY/Y-6 DIRECT BURY OR APPROVED EQUAL.
- 18. CONTROL VALVES SHALL BE SIZED AS DESIGNATED ON THE DRAWINGS AND SHALL BE INSTALLED IN VALVE BOXES AS INDICATED IN THE DETAILS. BOXES SHALL BE SET FLUSH WITH THE FINISH GRADE OR SURFACE AND PERMANENTLY MARKED WITH THE LETTERS R.C.V.
- 19. CONTRACTOR SHALL INSTALL ANTI-DRAIN CHECK VALVES AS NECESSARY TO PREVENT LOW HEAD DRAINAGE. IN LOCATIONS WHERE LOW HEAD DRAINAGE WILL CAUSE EROSION AND EXCESS WATER, INSTALL KING BROS. CV SERIES CHECK VALVES IN LATERAL LINES FOR EVERY 10' OF ELEVATION CHANGE.
- 20. BUBBLERS SHALL BE LOCATED ON THE UPHILL SIDE OF TREES.
- 21. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC. COORDINATE WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC. CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO THE EXCAVATION OF TRENCHES. CONTRACTOR IS TO REPAIR ANY DAMAGE CAUSED BY THEIR WORK AT NO ADDITIONAL COST TO THE OWNER.
- 22. REMOTE CONTROL VALVES SHALL BE PROGRAMMED IN SEQUENCE AS SHOWN ON PLANS UNLESS DIRECTED OTHERWISE BY OWNERS/OWNER'S AUTHORIZED REPRESENTATIVE. RUN WIRE FROM EACH RCV TO THE CONTROLLER. SPLICING WIRES TOGETHER OUTSIDE OF VALVE BOXES WILL NOT BE PERMITTED.
- 24. INSTALL VALVE BOXES MINIMUM 12" FROM AND PERPENDICULAR TO WALK, CURB, LAWN, BUILDING OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, LAWN, ETC. AND EACH BOX SHALL BE MINIMUM 12" APART. SHORT SIDE OF VALVE BOXES SHALL BE PARALLEL TO WALK, CURB, LAWN, ETC.
- 25. LOCATE QUICK COUPLING VALVE 12" FROM HARDSCAPE AREA.
- 26. NOTIFY OWNERS/OWNER'S AUTHORIZED REPRESENTATIVE OF ANY ASPECTS OF LAYOUT THAT WILL PROVIDE INCOMPLETE OR INSUFFICIENT WATER COVERAGE OF PLANT MATERIAL AND DO NOT PROCEED UNTIL HIS/HER INSTRUCTIONS ARE OBTAINED.
- 27. ALL EXCAVATIONS ARE TO BE FILLED WITH COMPACTED BACKFILL. REPAIR ALL SETTLED TRENCHES PROMPTLY. REPAIR ALL SETTLED TRENCHES PROMPTLY, FOR A PERIOD OF 1 YEAR AFTER COMPLETION OF WORK.
- 28. INSTALL ONE (1) SPARE CONTROL WIRE FOR EVERY 6 (SIX) STATIONS ON THE CONTROLLER ALONG THE ENTIRE MAIN LINE. SPARE WIRES SHALL BE THE SAME COLOR (ONE WITH A WHITE STRIPE) AND OF A DIFFERENT COLOR THAN OTHER CONTROL WIRES. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES. SPARE WIRE(S), NOT APPLICABLE FOR TWO-WIRE SYSTEMS
- 29. WHEN VERTICAL OBSTRUCTIONS (STREET LIGHTS, TREES, FIRE HYDRANTS, ETC.) INTERFERE WITH THE SPRAY PATTERN OF THE HEADS SO AS TO PREVENT PROPER COVERAGE, FIELD ADJUST THE SPRINKLER SYSTEM BY INSTALLING A QUARTER, THIRD, HALF CIRCLE OR ADJUSTABLE NOZZLE AND HEAD AT THE SIDES OF THE OBSTRUCTION SO AS TO PROVIDE PROPER COVERAGE. ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- 30. NOTIFY ARCHITECT OF ANY ASPECTS OF LAYOUT THAT WILL PROVIDE INCOMPLETE OR INSUFFICIENT WATER COVERAGE OF PLANT MATERIAL AND DO NOT PROCEED UNTIL HIS/HER INSTRUCTIONS ARE OBTAINED.
- 31. NOTIFY ALL LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.
- 32. CONNECT FLOW SENSOR TO CONTROLLER WITH CONDUCTOR DIRECT BURIAL SHIELDED SENSOR CABLE (EV-CAB-SEN.) INSTALL EACH CABLE IN A SEPARATE 1-1/4" PVC SCHEDULE 40 CONDUIT WITH SWEEP-ELLS.
- 33. CONTRACTOR SHALL WARRANT THAT THE IRRIGATION SYSTEM WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF 1 YEAR AFTER FINAL ACCEPTANCE OF WORK.
- 34. EXISTING IRRIGATION NOT AFFECTED BY NEW CONSTRUCTION SHALL REMAIN AND BE PROTECTED IN PLACE. EXISTING IRRIGATION SHALL REMAIN OPERATIONAL DURING THE CONSTRUCTION PHASE. DAMAGED EQUIPMENT DURING CONSTRUCTION SHALL BE REPLACED WITH LIKE-KIND EQUIPMENT.
- 35. THE CONTRACTOR SHALL PERMANENTLY HOT STAMP ALL VALVE BOX LIDS WITH 2-INCH MINIMUM LETTER HEIGHT AS FOLLOWS:
 - 'X1' FOR REMOTE CONTROL VALVES ('X' = CONTROLLER AND '1' = STATION NUMBER)
 - 'FS' FOR FLOW SENSOR

 - 'MV' FOR MASTER CONTROL VALVE 'GV' FOR GATE VALVE
 - 'QC' FOR QUICK COUPLING VALVE • 'SP' FOR SPLICE BOX OR PULL BOX

IRRIGATION MATERIAL LEGEND

	11	ANGATION MATERIAL LEGEND						
SYMBOL	MANUFACTURER	MODEL NO. / DESCRIPTION					DETAIL	
Q - H - F			GPM	PSI	RADIUS	P/R (TRI.)		
• • •	RAIN BIRD	1800-SAM-PRS 6" POP-UP HEAD WITH 8'-14' RADIUS R-VAN14 / R-VAN14-360 MPR SPRAY NOZZLE.	.32,0.63,1.27	45	8'-14'	0.72	L103, 5	L A N D S C A P E A R C H I T E C T U R E
• •	RAIN BIRD	1800-SAM-PRS 6" POP-UP HEAD WITH 13'-18' RADIUS R-VAN18 / R-VAN18-360 MPR SPRAY NOZZLE.	.50,1.01,1.85	45	13'-18'	0.72	L103, 5	
⊙ ⊖ ⊕	RAIN BIRD	1800-SAM-PRS 6" POP-UP HEAD WITH 17'-24' RADIUS R-VAN24 / R-VAN24-360 MPR SPRAY NOZZLE.	.84,1.68,3.48	45	17'-24'	0.72	L103, 5	20250 SW ACACIA ST, STE 260
lacktriangle	RAIN BIRD	RWS-B-C-1402 WITH RWS-SOCK. INSTALL 2 PER TREE. 0.50 GPM PER EACH BUBBLER, 1.0 GPM PER TREE.	1.0	30	NA	NA	L103, 4	NEWPORT BEACH, CA
								U.S.A. 92660
-DC-	N/A	POINT OF CONNECTION AT EXISTING 3" MAINLINE LOCATIONS PER PLANS. FOR REFERENCE ONLY. VERIFY SIZE & LOCATION IN PLAN NOTES FOR ADDITIONAL INFORMATION.	I FIELD PRIOR TO	START	OF WORK	K. SEE	N/A	PH: 714.754.7311
	MATCO-NORCA	MODEL 514LF BRASS GATE VALVE - LINE SIZE OR APPROVED EQUAL. INSTALL WITHIN CARSON 910 PLASTIC ROUND GREEN VA	LVE BOX.				L103, 6	
lacktriangle	SUPERIOR	950 SERIES BRASS REMOTE CONTROL VALVE WITH PRESSURE REGULATION. SIZE PER PLANS. INSTALL WITHIN CARSON 1419	-12 PLASTIC GREE	EN VAL	VE BOX.		L103, 1	
	AS APPROVED	PVC PIPE 2" - 2 1/2" CL. 315, SOLVENT WELD WITH SCH. 80 PVC FITTINGS, AS MAINLINES INSTALLED 18" BELOW FINISHED GRADE	<u>.</u>				L103, 8,9	
	AS APPROVED	PVC PIPE 3/4" - 1 1/2" SCH. 40, SOLVENT WELD WITH SCH. 40 PVC FITTINGS, AS LATERAL LINES INSTALLED 12" BELOW FINISHED	GRADE.				L103, 8,9	
	AS APPROVED	PVC PIPE SCH. 40 AS SLEEVING, 2 TIMES THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED (2" MINIMUM SIZE) INSTALL ALL PIFETC. (OR AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE) INSIDE SLEEVES. SLEEVES UNDER PEDESTRIAN PAVING GRADE. ALL MAINLINE SLEEVES ARE TO BE CONSIDERED EXISTING VERIFY LOCATION IN FIELD.					L103, 9	
NO SYMBOL	AS APPROVED	ALL SOLVENT WELD CONNECTIONS FOR BOTH MAINLINE AND LATERAL LINE SHALL BE MADE USING THE TWO-STEP PROCESS OF SHALL BE LOW VOC "PURPLE PRIMER". MAINLINE SOLVENT CEMENT SHALL BE WELD-ON 711 PVC INDUSTRIAL GRADE CEMENT BE WELD-ON 711 PVC INDUSTRIAL GRADE CEMENT. USE DAUBERS SIZED AT LEAST ONE-HALF THE SIZE OF THE LARGEST PIPE JOINTS SHALL BE MADE PER THE PIPE AND FITTING MANUFACTURER'S RECOMMENDATIONS.	. LATERAL LINE SO	DLVEN	CEMENT	SHALL	L103, 1,2,4,5	5
NO SYMBOL	3M	DBR/Y-6 DIRECT BURIAL (I.L. APPROVED) WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE SPLICES AND CONNECTION	NS.				L103, 2	
NO SYMBOL	CARSON	VALVE BOXES, SIZE PER EQUIPMENT LEGEND, WITH T-COVER LIDS AND CAPTIVE BOLT AND LOC-KIT. FOR ROUND AIR RELIEF V BE MODEL 910, 12" STANDARD RECTANGULAR. SHALL BE MODEL 1419, 12" JUMBO RECT. SHALL BE MODEL 1220, SUPER JUMBO XL SHALL BE MODEL 1730. FOR USE IN NON-VEHICULAR TRAFFIC SITUATIONS ONLY. DO NOT INSTALL IN CONCRETE OR ASPH	SHALL BE MODEL	,			L103, 7	
NO SYMBOL	K.B.I.	KSC-(LINE SIZE)-S SWING CHECK VALVE, LINE SIZE, 1 DOWNSTREAM OF EACH RCV WHEN RCV IS LOWER THAN THE SPRINKLER	S				N/A	
NO SYMBOL	K.B.I.	KC-(LINE SIZE)-S SPRING CHECK VALVE, LINE SIZE, 1 DOWNSTREAM OF EACH RCV IMMEDIATELY ABOVE FIRST LATERAL LINE TI	ΞE,				N/A	
NO SYMBOL	PAIGE ELECTRIC	P7079D POLYETHYLENE INSULATED, SOLID COPPER CONDUCTOR IRRIGATION CONTROL WIRE #14UF AWG DIRECT BURIAL (U.L. IN COLOR, COMMON GROUND WIRE SHALL BE WHITE IN COLOR, SPARE WIRES SHALL BE YELLOW IN COLOR. WHERE MULTIPLE PROJECT, EACH CONTROLLER SHALL HAVE A DIFFERENT COLOR FOR PILOT WIRES. THE CONTRACTOR SHALL ROUTE TWO (2) THE CONTROLLER ALONG THE MAINLINE IN ALL DIRECTIONS AWAY FROM THE CONTROLLER. LOOP SPARE WIRES UP AND INTO PROVIDING A 3 FOOT MINIMUM LOOP.	CONTROLLERS A SPARE CONTROL	RE US WIRES	ED ON TH G (YELLOV	E /) FROM	L103, 1,2,3,8,	9
	EXISTING	EXISTING PVC DOMESTIC IRRIGATION MAINLINE. VERIFY PRIOR TO START OF WORK					N/A	
	AS APPROVED	PVC PIPE 3/4" - 1 1/2" SCH. 40, SOLVENT WELD WITH SCH. 40 PVC FITTINGS, AS LATERAL LINES INSTALLED 12" BELOW FINISHED	GRADE.				N/A	
		IRRIGATION PLAN NOT	FS					

IRRIGATION LOCATION NOTES:

- 1. BACKFLOW PREVENTER LOCATION SHOWN ON THESE DRAWINGS IS APPROXIMATE. THE CONTRACTOR SHALL STAKE OUT THE BACKFLOW PREVENTER, AND IRRIGATION APPURTENANCE LOCATION FOR REVIEW AND APPROVAL BY ENGINEER PRIOR TO INSTALLATION OF THIS EQUIPMENT. FINAL LOCATION AND EXACT POSITIONING OF BACKFLOW PREVENTER AND ALL IRRIGATION APPURTENANCE SHALL BE DETERMINED BY THE ENGINEER. MODIFICATIONS OF THE BACKFLOW PREVENTER AND ALL IRRIGATION APPURTENANCE AS REQUESTED BY THE ENGINEER SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DISTRICT/DISTRICT'S AUTHORIZED REPRESENTATIVE. FAILURE TO OBTAIN ENGINEER'S APPROVAL PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE DISTRICT/DISTRICT'S AUTHORIZED REPRESENTATIVE DIRECTED REVISION AT NO CHARGE. CONTRACTOR SHALL NOTIFY ALL LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.
- 2. CONTROLLER LOCATION SHOWN ON THESE DRAWINGS IS APPROXIMATE. THE LANDSCAPE CONTRACTOR SHALL STAKE OUT THE CONTROLLER LOCATION FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO INSTALLATION OF THIS EQUIPMENT. THE 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 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 ENGINEER. MINOR MODIFICATIONS OF CONTROLLER REQUESTED BY THE ENGINEER SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DISTRICT/DISTRICT'S AUTHORIZED REPRESENTATIVE FAILURE TO OBTAIN ENGINEER'S APPROVAL PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE ENGINEER DIRECTED REVISIONS AT NO ADDITIONAL COST TO THE DISTRICT/DISTRICT'S AUTHORIZED REPRESENTATIVE.
- 3. ELECTRIC CONTROL VALVES AND ISOLATION VALVE LOCATIONS ON THESE DRAWINGS ARE APPROXIMATE THE CONTRACTOR SHALL STAKE OUT EACH ELECTRICAL CONTROL VALVE AND ISOLATION VALVE LOCATION FOR REVIEW AND APPROVAL BY ENGINEER PRIOR TO INSTALLATION OF ALL VALVES. FINAL LOCATION AND EXACT POSITIONING FOR ELECTRIC CONTROL VALVES AND ISOLATION VALVES SHALL BE DETERMINED BY ENGINEER. MINOR MODIFICATIONS OF ELECTRIC CONTROL VALVES AND ISOLATION VALVE LOCATIONS AS REQUESTED BY THE ENGINEER SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DISTRICT/DISTRICT'S AUTHORIZED REPRESENTATIVE. FAILURE TO OBTAIN ENGINEER'S APPROVAL PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE ENGINEER DIRECTED REVISIONS AT NO ADDITIONAL COST TO THE DISTRICT/DISTRICT'S AUTHORIZED REPRESENTATIVE. IN GENERAL UNLESS OTHERWISE DIRECTED BY ENGINEER, ALL VALVES SHALL BE INSTALLED ONE FOOT FROM EDGE OF HARDSCAPE, WALK OR CURB IN SHRUB PLANTING AREAS.
- 4. ELECTRICAL CONTRACTOR TO SUPPLY 120 VAC (2.5 AMP) SERVICE TO CONTROLLER LOCATION. IRRIGATION CONTRACTOR TO MAKE FINAL CONNECTION FROM ELECTRICAL STUB-OUT TO CONTROLLER. IRRIGATION CONTROL WIRE SHALL BE #14, U.L. APPROVED FOR DIRECT BURIAL. COMMON WIRE SHALL BE #12 U.L. APPROVED AND SHALL BE WHITE IN COLOR. WIRING TO INDIVIDUAL REMOTE CONTROL VALVES SHALL BE COLOR OTHER THAN WHITE.

CONTRACTORS SHALL FIELD VERIFY THAT ALL IRRIGATION EQUIPMENT IS ON SITE AND IS OPERATIONAL (CONTROLLER, BACKFLOW PREVENTER, VALVES (NEW AND EXISTING) FLOW SENSOR, MASTER VALVE, MAINLINE, LATERAL LINES, ETC ALL, CONTACT THE DISTRICT/DISTRICT'S REPRESENTATIVE IF EQUIMENT IS MISSING OR IN POOR CONDITION. FAILURE TO OBTAIN DISTRICT'S REPRESENTATIVE APPROVAL PRIOR TO ANY / ALL INSTALLATIONS SHALL CAUSE THE CONTRACTOR TO MAKE DISTRICT'S REPRESENTATIVE DIRECTED REVISIONS AT NO ADDITIONAL COST TO THE DISTRICT.

NOTE:

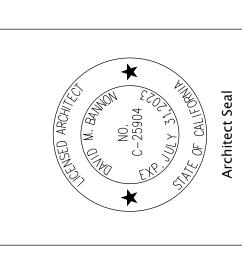
NEW DRAWINGS ARE BASED OFF OF AS-BUILTS. IF THERE ARE MISSING OR ALTERED IN FIELD DIFFERENCES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE DISTRICT/DISTRICT'S REPRESENTATIVE. FAILURE TO OBTAIN DISTRICT'S REPRESENTATIVE APPROVAL PRIOR TO ANY / ALL INSTALLATIONS SHALL CAUSE THE CONTRACTOR TO MAKE DISTRICT'S REPRESENTATIVE DIRECTED REVISIONS AT NO ADDITIONAL COST TO THE DISTRICT.

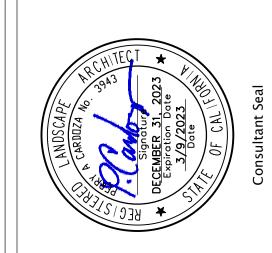
IRRIGATION PLAN NOTES

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS, AS DESCRIBED IN THE SPECIFICATIONS, AND IN ACCORDANCE WITH APPLICABLE CODES AND

- 2. DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTMENTS NECESSARY TO CONFORM TO ACTUAL
- 3. CONTRACTOR SHALL FLUSH ALL LINES AND ADJUST ALL HEADS FOR OPTIMUM PERFORMANCE IN ACCORDANCE WITH THE SPECIFICATIONS AND TO PREVENT OVERSPRAY ONTO HARDSCAPE AREAS OR STRUCTURAL ELEMENTS. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT ACTUAL SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM. COSTS INCURRED DUE TO ANY ADJUSTMENTS FOR 100% COVERAGE, INCLUDING THOSE REQUESTED BY THE DISTRICTS AUTHORIZED REPRESENTATIVE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. SYSTEM DESIGN IS BASED ON A MINIMUM OPERATING PRESSURE (P.S.I.) AND A MAXIMUM DEMAND (G.P.M.) AS SHOWN AT EACH POINT OF CONNECTION ON THE DRAWINGS. CONTRACTOR SHALL VERIFY PRESSURE AND DEMAND AT EACH POINT OF CONNECTION PRIOR TO COMMENCING INSTALLATION AND SUBMIT SUCH IN WRITING TO THE DISTRICTS AUTHORIZED REPRESENTATIVE. IF ANY DISCREPANCIES EXIST, THEY SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE DISTRICTS AUTHORIZED REPRESENTATIVE.
- 5. EQUIPMENT SHOWN IN HARDSCAPE AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED WHENEVER POSSIBLE WITHIN PLANTED AREAS A REASONABLE, REACHABLE DISTANCE FROM HARDSCAPE OR TURF AREAS.
- 6. UNLESS OTHERWISE NOTED ON THE DRAWINGS, CONTRACTOR SHALL INSTALL WIRE AND PIPE UNDER HARDSCAPE AREAS IN P.V.C. SCHEDULE 40 SLEEVES PLACED PRIOR TO INSTALLING HARDSCAPE IN ACCORDANCE WITH APPLICABLE CODES.
- 7. WHEREVER POSSIBLE, CONTROL WIRES SHALL OCCUPY THE SAME TRENCH AS PIPES.
- 8. EACH CONTROLLER SHALL HAVE ITS OWN INDEPENDENT GROUND WIRE.
- 9. SPLICING OF 24 VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. CONTRACTOR TO LEAVE A 24" COIL OF EXCESS WIRE AT EACH SPLICE AND EVERY 100' ON CENTER ALONG WIRE RUN. TAPE WIRE BUNDLES 10' ON CENTER. NO TAPING WILL BE PERMITTED INSIDE SLEEVES.
- 10. WIRE CONNECTORS SHALL BE SCOTCH DBY OR APPROVED EQUAL.
- 11. CONTROL VALVES SHALL BE SIZED AS DESIGNATED ON THE DRAWINGS AND SHALL BE INSTALLED IN VALVE BOXES AS INDICATED IN THE DETAILS. BOXES SHALL BE SET FLUSH WITH THE FINISH GRADE OR SURFACE AND PERMANENTLY MARKED WITH THE LETTERS
- 12. CONTRACTOR SHALL INSTALL ANTI-DRAIN CHECK VALVES AS NECESSARY TO PREVENT LOW HEAD DRAINAGE.
- 13. EMITTERS SHALL BE LOCATED ON THE UPHILL SIDE OF TREES.
- 14. THE IRRIGATION SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES BY LICENSED CONTRACTORS AND EXPERIENCED WORKERS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES RELATING TO THEIR WORK.
- 15. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC. COORDINATE WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC. CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO THE EXCAVATION OF TRENCHES. CONTRACTOR IS TO REPAIR ANY DAMAGE CAUSED BY THEIR WORK AT NO ADDITIONAL COST TO THE DISTRICT.
- 16. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAY BE REQUIRED. CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL WORK AND PLAN WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THE WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS, PLANTING, AND ARCHITECTURAL FEATURES.
- 17. REMOTE CONTROL VALVES SHALL BE PROGRAMMED IN SEQUENCE AS SHOWN ON PLANS UNLESS DIRECTED OTHERWISE BY DISTRICTS AUTHORIZED REPRESENTATIVE.
- 18. VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN GROUND COVER/SHRUB AREAS WHERE POSSIBLE.
- 19. INSTALL VALVE BOXES MINIMUM 12" FROM AND PERPENDICULAR TO WALK, CURB, LAWN, BUILDING OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, LAWN, ETC. AND EACH BOX SHALL BE MINIMUM 12" APART. SHORT SIDE OF VALVE BOXES SHALL BE PARALLEL TO WALK, CURB, LAWN, ETC.
- 20. LOCATE QUICK COUPLING VALVE 12" FROM HARDSCAPE AREA.
- 21. NOTIFY DISTRICTS REPRESENTATIVE OF ANY ASPECTS OF LAYOUT THAT WILL PROVIDE INCOMPLETE OR INSUFFICIENT WATER COVERAGE OF PLANT MATERIAL AND DO NOT PROCEED UNTIL HIS/HER INSTRUCTIONS ARE OBTAINED.
- 22. ALL EXCAVATIONS ARE TO BE FILLED WITH COMPACTED BACKFILL. REPAIR ALL SETTLED TRENCHES PROMPTLY.
- 23. OPERATE IRRIGATION CONTROLLER(S) BETWEEN THE HOURS OF 10:00 PM AND 7:00 AM.
- 24. NOTIFY UNDERGROUND SERVICE ALERT AT 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.

RCHITECTS **GHATRODE** GBA





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OF XXX XRFF:

ARCHITECTURE 20250 SW ACACIA ST, STE 260

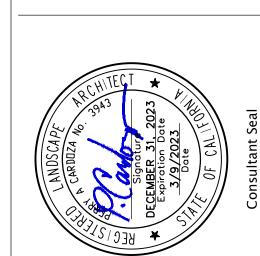
NEWPORT BEACH, CA

U. S. A. 92660

PH: 714.754.7311

ARCHITECTS GHATRODE

Archite 760 W. 167



SCHOOL SS ELEMENTARY OOF UPGRADE

GREEN 'AC & R(

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XREF:

1) ROOT WATERING SYSTEM ASSEMBLY: RAINBIRD RWS-B-C-1402 4" DIA. X 36" LENGTH (INCLUDES 1402 0.50GPM BUBBLER W/ RISER, CHECK VALVE, GRATE, SWING CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE. ASSEMBLY, 1/2" MALE NPT INLET AND BASKET CANISTER) SET BOXES 2" ABOVE FINISH GRADE OR MULCH COVER IN GROUNDCOVER/SHRUB

SET RVC AND VALVE BOX ASSEMBLY IN GROUNDCOVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUNDCOVER DOES NOT EXIST ADJACENT TO . SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE

AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND

DEFORMATION OF VALVE BOX SIDES 6. BRAND VALVE BOX WITH CONTROLLER LETTER AND VALVE NUMBER USING 1 1/2 -2" LETTERING

(1) TYPICAL 16"x21" **RECTANGULAR VALVE BOX**

(2) TYPICAL QUICK COUPLING VALVE (3) TYPICAL 19"x26" OR

LARGER VALVE BOX (4) EDGE OF LAWN, WALK, FENCE, CURB, ETC.

1) 3

> PLAN VIEW: NTS TREE BUBBLER SCALE: NTS

NOTES: 1. 2 BUBBLERS MIN. PER TREE

SECTION VIEW: NTS

1. TOP OF BOX: 1" ABOVE FINISH SURFACE IN TURF AND 2" ABOVE IN NON-TURF AREAS.

(1) PLASTIC RECTANGULAR VALVE BOX WITH T-COVER AND CAPTIVE STAINLESS STEEL BOLT AND LOC-KIT. INSTALL BOX AT RIGHT ANGLE TO ADJACENT HARDSCAPE EDGE. LABEL "RCV" AND CONTROL STATION NUMBER ONTO LID

(2) FINISH SURFACE - 2"

(7) TAPE WIRES TO PIPE

(3) 24" WIRE LOOPS WITH WATERPROOF WIRE CONNECTORS

(4) SCH.40 PVC PIPE OR SCH.80 T.O.E. NIPPLE WITH D.I. SERVICE TEE (5) SCH.80 PVC SLIP TEE OR LEEMCO DUCTILE IRON BBT SERVICE TEE FOR USE ON BELL AND GASKET MAINLINE PIPER (6) SCH.80 PVC SLIP 90° ELL

(8) SCH.40 PVC PIPE, SIZE PER RCV, TYP. (9) LANDSCAPE FABRIC TO COVER BOTTOM AND ALL SIDES OF VALVE BOX (10) BRICK SUPPORTS (4 TOTAL) (11) LASCO #896 PVC UNION SLIP X MIPT, SIZE PER RCV, TWO (2)

REQUIRED FOR ASSEMBLY (12) ELECTRIC REMOTE CONTROL VALVE (13) SPARE CONTROL WIRE LOOP 48" LENGTH INTO EACH RCV BOX

(1) FINISHED GRADE IN TURF AREA

(3) FINISHED GRADE IN SHRUB AREA

(6) BRICK SUPPORTS, FOUR (4) REQUIRED

THE CONTROLLER AND ALL FIELD

EQUIPMENT AND CONTROL VALVES

(7) TWO-WIRE PATH (CABLE) BETWEEN

(4) 3M DBR/Y-6 WATERPROOF WIRE CONNECTORS

CONNECTORS UNLESS SPLICES ARE REQUIRE

BRAND "PB" ONTO LID

(8) 3/4" CRUSHED GRAVEL, 4"

SIDES OF VALVE BOX

COVER BOTTOM AND ALL

PULL BOX

MINIMUM DEPTH

(9) LANDSCAPE FABRIC TO

(14) 3/4" CRUSHED GRAVEL, 2 CUBIC FEET REMOTE CONTROL VALVE ASSEMBLY

1. TWO-WIRE PATH IN CONDUIT ONLY IF SPECIFIED ON LEGEND, SEE LEGEND.

(2) PLASTIC RECTANGULAR VALVE BOX WITH A TAN COLORED LID AND LOCK KIT

(5) PROVIDE A 48" LONG COIL OF THE TWO WIRE PATH (FOR CONTROL VALVES,

MASTER VALVE/FLOW SENSOR OR COMMUNICATION CABLE) IN EACH PULL BOX

USED. PULL BOXES FOR SLEEVE CROSSING DO NOT REQUIRE WATERPROOF

INSTALL BOX AT RIGHT ANGLE TO THE ADJACENT HARDSCAPE EDGE. HEAT

PLAN VIEW

PLAN VIEW

B

VALVE BOX INSTALLATION

AREA AND 1" ABOVE FINISH GRADE IN TURF AREA

DURING CONSTRUCTION - INSTALLATION

 EXISTING TRANSITE MAINLINE, 3" SIZE (DO NOT DISTURB). (2) NEW REMOTE CONTROL VALVE ASSEMBLY. INSTALL NEW IRRIGATION CONTROLLER WIRES, FROM NEW VALVES TO EXISTING CONTROLLER, SEE

PLANS FOR LOCATION. (3) PVC PIPE (LATERAL LINE) TO IRRIGATION SYSTEM, TYP. (4) NEW GATE VALVE, 3" SIZE. CONNECT TO EXISTING THREADED

EXISTING CURRENT CONDITIONS

3) PVC PIPE (LATERAL LINE) TO IRRIGATION SYSTEM, TYP.

DURING CONSTRUCTION - REMOVAL

NON-TRANSITE TREADED FITTING. REMOVE VALVE & BOX. PVC PIPE (LATERAL LINE) TO IRRIGATION SYSTEM, TYP.

(1) EXISTING TRANSITE PVC MAINLINE, 3" SIZE (DO NOT DISTURB).

(2) REMOVE EXISTING 3" REMOTE CONTROL VALVE ASSEMBLY AT CLOSET

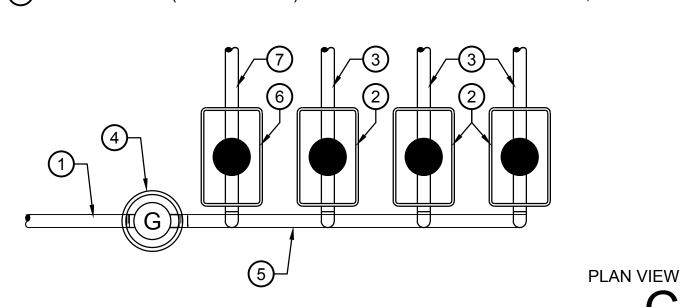
EXISTING IRRIGATION CONTROLLER WIRES.

(1) EXISTING TRANSITE PVC MAINLINE, 3" SIZE (DO NOT DISTURB).

2 EXISTING 3" REMOTE CONTROL VALVE ASSEMBLY. PROTECT IN PLACE

TRANSITE PIPE FITTING. (5) NEW PVC SCH. 40 MAINLINE, 3" SIZE. LENGTH AS NEEDED. (6) EXISTING REMOTE CONTROL VALVE ASSEMBLY, TO BE REINSTALLED. IF DAMAGED REPLACE WITH LIKE KIND.

(7) NEW PVC PIPE (LATERAL LINE) TO EXISTING IRRIGATION SYSTEM, TYP.



REPACEMENT MANIFOLD LAYOUT

. PVC SLEEVES TO BE TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE CARRIED. 2. DETAIL ALSO FOR PIPE INSTALLED IN ROCK SOIL.

3. ALL SLEEVES TO BE SCHEDULE 40 PVC. 4. EXTEND ALL SLEEVES 12" BEYOND EDGE OF HARDSCAPING AT BOTH ENDS.

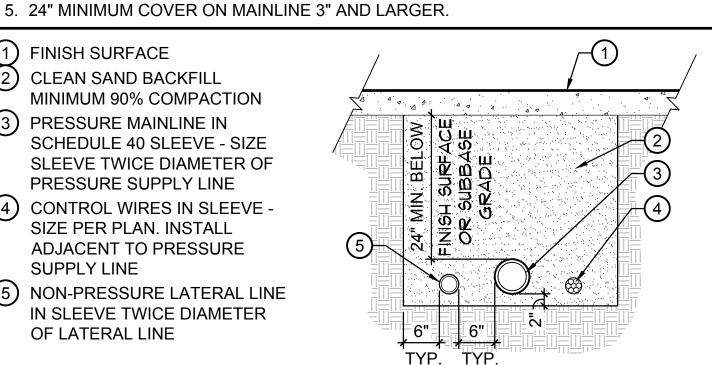
(1) FINISH SURFACE (2) CLEAN SAND BACKFILL MINIMUM 90% COMPACTION

(3) PRESSURE MAINLINE IN SCHEDULE 40 SLEEVE - SIZE SLEEVE TWICE DIAMETER OF PRESSURE SUPPLY LINE (4) CONTROL WIRES IN SLEEVE -

SIZE PER PLAN. INSTALL ADJACENT TO PRESSURE SUPPLY LINE

(5) NON-PRESSURE LATERAL LINE IN SLEEVE TWICE DIAMETER OF LATERAL LINE

SCALE: NTS



. LOCATE SPRINKLER HEADS 24" FROM WALKS, CURBS, MOWSTRIP AND HEADER BOARDS EDGE IN TURF AND GROUNDCOVER AREAS.

INSTALL SPRINKLER HEADS PLUMB. ADJUST SPRAYS OR NOZZLE STREAM TO COVER LANDSCAPE AREA WITHOUT OVERSPRAY ONTO PAVING, FENCES, WALLS OR BUILDINGS.

2 PVC LATERAL LINE PIPE. SEE SPECIFICATIONS FOR TYPE AND DEPTH

(3) ROOT WATERING SYSTEM PER LEGEND

(4) ROOT BALL OF TREE

(7) PVC LATERAL LINE

(8) AMMENDED BACKFILL

9) ROOT BALL OF TREE

(10) NATIVE SOIL

11) FINISH GRADE

(6) PVC SCH. 40 TEE OR ELL

(5) RWS SAND SOCK (RWS-SOCK)

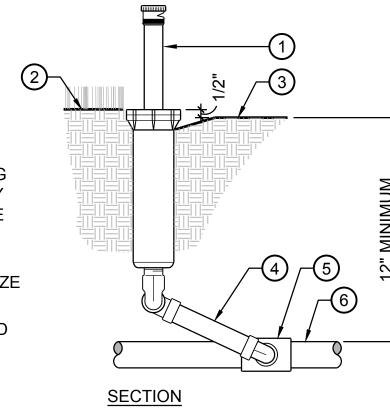
1) POP-UP SPRINKLER HEAD, SPRAY OR ROTOR REFER TO LEGEND FOR SPECIFICATIONS (2) INSTALL SPRINKLER HEAD

FLUSH WITH FINISHED GRADE IN TURF AREAS (3) INSTALL SPRINKLER HEAD 1/2" ABOVE FINISHED GRADE IN

SHRUB AREAS 4) PRE-ASSEMBLED TRIPLE SWING JOINT (REFER TO LEGEND), LAY LENGTH TO BE 6" MINIMUM SIZE AS PER SPRINKLER OUTLET

(5) SCH 40 PVC SxSxT TEE FITTING LATERAL x SPRINKLER INLET SIZE

(6) LATERAL LINE, REFER TO SPECIFICATIONS FOR TYPE AND DEPTH REQUIRED



POP-UP SPRAY HEAD

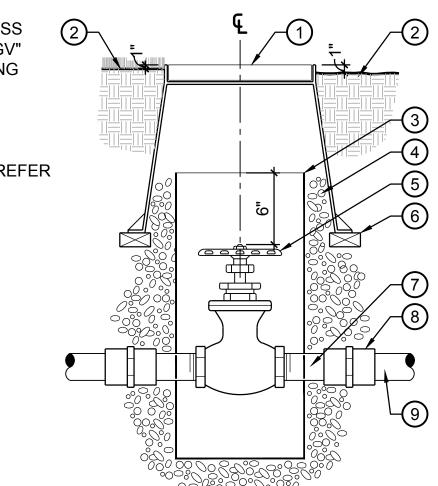
. FINISH GRADE: 1" BELOW FINISH SURFACE ADJACENT TO TURF AND 2" BELOW ADJACENT TO NON-TURF AREAS.

(1) PLASTIC ROUND VALVE BOX WITH BOLT DOWN COVER, USE STAINLESS BOLT NUT AND WASHER BRAND "GV" ONTO LID, 1 1/2"=2" HIGH LETTERING

(2) FINISH GRADE (3) 6" PVC CL. 160 PIPE (4) 3/4" WASHED CRUSHED GRAVEL (5) GATE VALVE WITH HAND WHEEL, REFER

TO LEGEND (6) BRICK SUPPORT (S) (7) SCH 80 PVC TxS NIPPLE, 6" LONG

8 SCH 40 PVC COUPLING
9 IRRIGATION MAINLINE



GATE VALVE
SCALE: NTS

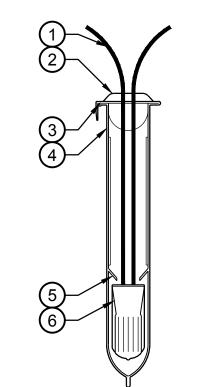
1. KIT SHALL INCLUDE A SCOTCHLOK Y SPRING CONNECTOR, A POLYPROPYLENE TUBE AND A WATERPROOF SEALING GEL. TUBE SHALL BE SUPPLIED PRE-FILLED WITH GEL 2. DIRECT BURY SPLICE KIT SHALL BE USED TO ELECTRICALLY CONNECT 2-3 #14 OR TWO (2) #12 PRE-STRIPPED COPPER WIRES. LARGER WIRES OR GREATER QUANTITIES OF WIRES SHALL REQUIRE A LARGER APPROVED WIRE CONNECTION.

(1) LOW VOLTAGE WIRES, THREE (3) MAXIMUM (2) WIRES PASS THROUGH GROOVES IN TUBE LID TO

ALLOW LID TO CLOSE (3) CLOSE TUBE LID AFTER WIRE IS INSERTED INTO TUBE (4) POLY TUBE PRE-FILLED WITH WATERPROOF GEL

(5) LOCK TABS PREVENTS WIRE REMOVAL ONCE CONNECTOR IS INSERTED (6) SCOTCHLOK ELECTRICAL SPRING CONNECTOR WIRES SHALL BE PRE-STRIPPED OF 1/2" OF THE INSULATION PRIOR TO INSERTION INTO THE

CONNECTOR. TWIST CONNECTOR ONTO WIRES TO SEAT FIRMLY. SCOTCHLOK CONNECTOR AND WIRES INSERTED INTO TUBE UNTIL THE CONNECTOR PASSES LOCK TABS



TYP. WIRE CONNECTION

PIGTAIL AND LOOP CONTROL WIRE AT ALL 90° CHANGES IN DIRECTION. PROVIDE A MINIMUM 10 FEET SEPARATION BETWEEN POTABLE AND RECLAIMED MAINLINE PIPING.

24" MINIMUM COVER ON 3" MAINLINE AND LARGER. (1) FINISH GRADE (2) CLEAN BACKFILL - 90% COMPACTION REQUIRED

TYPICAL SLEEVING

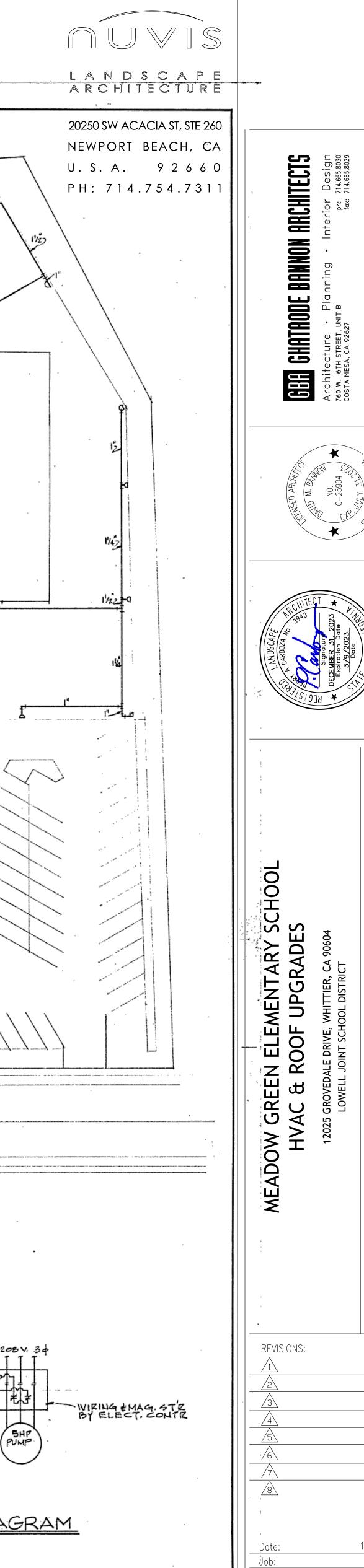
(3) NON-PRESSURE LATERAL LINE. SNAKE PIPE IN TRENCH (4) PRESSURE SUPPLY LINE SNAKE

PIPE IN TRENCH (5) CONTROL WIRES - BUNDLE AND TAPE AT 10' O.C. AND INSTALL ADJACENT TO PRESSURE

SUPPLY LINE

DIMENSION 1/2" TO 2-1/2" IN SIZE 3" TO 6" IN SIZE

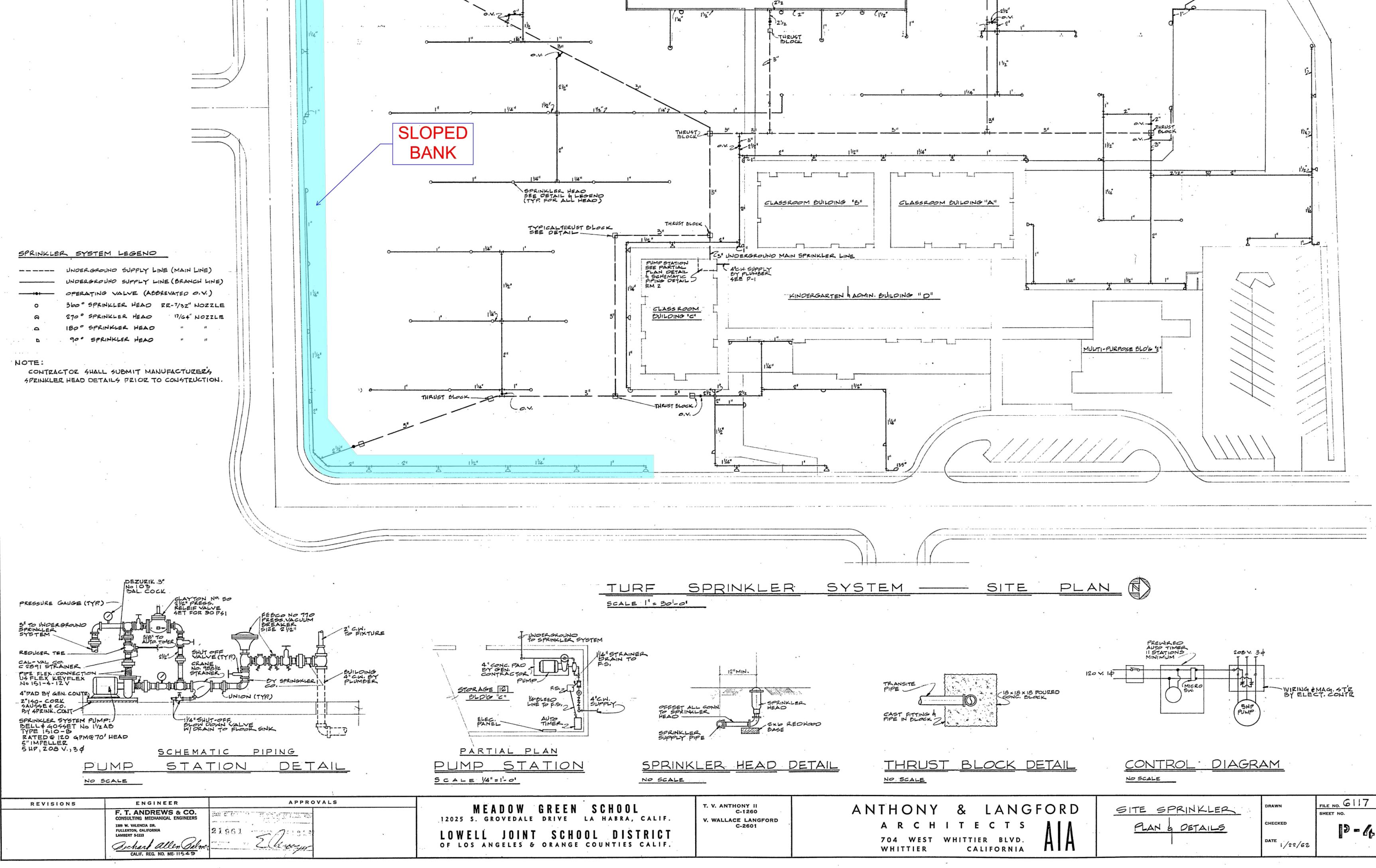
TYPICAL TRENCHING



THRUST BLOCK

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NEW DRAWINGS ARE BASED OFF OF AS-BUILTS FROM THE

INSTALLATIONS SHALL CAUSE THE CONTRACTOR TO MAKE OWNER'S REPRESENTATIVE DIRECTED REVISIONS AT NO

-THRUST BLOCK

ADDITIONAL COST TO THE OWNER.

EXISTING IRRIGATION PLANS ARE FOR

REFERENCE ONLY AND ARE NOT TO SCALE.

NOTE

DISTRICT IF THERE ARE MISSING OR ALTERED IN FIELD

Maximum Applied Water Allowance Calculat	tions for New and Rehabil	itated Non-Residential Landscapes
Enter	value in Pale Blue Cells	TOF WATER PLES
	Tan Cells Show Results	NA PARA PARA PARA PARA PARA PARA PARA PA
Mes	sages and Warnings	
		F OF CALIFO
Click on the blue cell on right to Pick City Name	Los Angeles	
ET _o of City from Appendix A	50.10	ET _o (inches/year)
	13812	Overhead Landscape Area (ft²)
	560	Drip Landscape Area (ft²)
	0	SLA (ft ²)
Total Landscape Area	14,372	
Results:		
(ET _o) x (0.62) x [(0.45 x LA) + (1.0 - 0.45) X SLA)]	200,877	Gallons
	26,853	Cubic Feet
	269	HCF
	1	Acre-feet
		Millions of Gallons
MAWA calculation incorporating Effective Precipitation (Op Precipitation (Optional)	tional) 	
ET _o of City from Appendix A	50	ET _o (inches/year)
Total Landscape Area	14,372	LA (ft ²)
Special Landscape Area	0	SLA (ft ²)
		200,877 Gallons 26,853 Cubic Feet 269 HCF 1 Acre-feet 0 Millions of Gallons al) 50 ET _o (inches/year) 14,372 LA (ft²) 0 SLA (ft²) Total annual precipitiation (inches/year) 0.00 Eppt (in/yr)(25% of total annual precipitation)
Enter Effective Precipitation	0.00	Eppt (in/yr)(25% of total annual precipitation)
Results:		
MAWA = $[(ET_o - Eppt) \times (0.62)] \times [(0.45 \times LA) + ((1.0 - 0.45) \times SLA)]$	-	Gallons
	-	Cubic Feet
	-	HCF
	-	Acre-feet
	-	Millions of Gallons

MAXIMUM APPLIED WATER ALLOWANCE

Estimated Total Water Use Equation: ETWU = ET_o x 0.62 x [((PF x HA)/IE) + SLA]; Considering precipitation ETWA = (ETo-Eppt) x 0.62 x [((PF x HA)/IE) +SLA] Enter values in Pale Blue Cells Tan Cells Show Results Messages and Warnings Irrigation Efficiency Default Value for overhead 0.75 and drip 0.81. Plant Factor 0 - 0.1 0.2 - 0.3 0.4 - 0.6 0.7 - 1.0 Plant Factor Hydrozone Area (HA) (PF) (ft²) Without SLA Select System (PF x HA (ft²))/IE Irrigation Efficiency click on cell below Low 0.30 Low Low Low Zone 7 Zone 8 Zone 9 Zone 10 Zone 12 Zone 13 Zone 14 Zone 15 Zone 16 Zone 17 Zone 18 Zone 19 Zone 20 Zone 21 Zone 22 Zone 23 Zone 24 Zone 25 Zone 26 Zone 27 Zone 28 Zone 29 Zone 30 Zone 31 Zone 32 Zone 33 Zone 34 Zone 35 SLA Total Landscape Area including Special Landscape ETWU complies with MAWA MAWA = 200,891 178,055 Gallons ETWU = 23,803 Cubic Feet 238.03 HCF 0.55 Acre-feet 0.18 Millions of Gallons

ESTIMATED TOTAL WATER USE

PRESSURE LOSS CALCULATIONS PRESSURE WITH PUMP NOT ON.

		WATER PR	ESSURE CALCULATIO	NS						
POC NUMBE	OC NUMBER Greenfield Com 1 POC SIZE									
HYDRAULIC	GRADE LINE	-	POC ELEVATION				-			
ELEVATION	DIFFERENCE	-	MINIMUM STATIC WA	TER PRE	SSURE		68			
REMOTE CO	NTROL VALVE #	10	REMOTE CONTROL V	ALVE SI	ZE		1"			
R.C.V. DEMA	ND (GPM)	30	TOTAL DEMAND (GPN	M)			40			
	AD ELEVÁTION	-	STATIC PRESSURE A		RY		40			
SIZE		DESCRIPT	10N		PSI LOSS					
2"	50 FEET SERVIC	E LINE; TYPE K CC	PPER	1	0.5	PSI				
2"	WATER METER			2	1.9	PSI				
	BACKFLOW PRE	VENTER		3	0.0	PSI				
2"	GATE VALVES			4	0.5	PSI				
2"	MASTER CONTR	OL VALVE		5	0.8	PSI				
2-1/2"	2000 FEET OF M	AINLINE: TYPE CL 3	15	6	7.7	PSI				
1"	REMOTE CONTR	OL VALVE		8	2.9	PSI				
10%	LATERAL LINE LO	OSS		9	1.4	PSI				
10%	FITTING LOSS			10	1.6	PSI				
0	FT. OF ELEVATION	ON CHANGE (P.O.C.	TO HIGHEST HEAD)	11		PSI				
TOTAL SYST	EM PRESSURE LO	SS (SUM OF #1 THE	RU #11)	12	17.3	PSI				
PRESSURE	REQUIRED AT RCV			13	40.0	PSI				
TOTAL PRES	SURE REQUIRED	14	57.3	PSI						
STATIC WAT	ER PRESSURE (FF	15	68.0	PSI						
RESIDUAL P	RESSURE (SUBTRA	ACT # 14 FROM # 15	5)	16	10.7	PSI				
SET PRV OF	R MCV AT (# 14 PLU	S 10 PSI)		17	83.5	PSI				
PRESSURE	BOOST, IF REQUIR	ED (#14-#15 + 20 PS	SI)	18	43.5	PSI				

CONTE	ROLLEF	R SCI	<u>HEDI</u>	<u>JLE</u>													
IRRIGAT	ION CONT	ROLLE	R SCH	EDULE	- ESTA	BLISH	MENT	PERIO)								
DATE:	8/12/2019					CITY:	Anaheim						REVISION	I HISTORY	:		
PROJECT:	Maxwell Dog	g Park															
CLIENT:	City of Anah	eim				WUCOLS	ZONE:	Long Bea	ch				REVISED	BY:			
PREPARED E	BY NUVIS																
CONTROLLE	'D IAI														SOUEDIU INC DA		
CONTROLLE E.T. DATA	K A	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1	SCHEDULING DA	Efficiency Rate	Days Per Week
DATA	MONTHLY	2.70	2.70	3.30	4.60	5.30	5.60	5.60	6.00	5.90	3.40	2.60	2.00		7001 E 1	Linciency Rate	Days Fel vveek
	WEEKLY	0.63	0.63	0.77	1.07	1.23	1.30	1.30	1.40	1.37	0.79	0.60	0.47	-	1.25	0.81	6
	DAILY	0.09	0.10	0.11	0.15	0.17	0.19	0.18	0.19	0.20	0.11	0.09	0.06				
			IRRIGATION	ON SCHED	ULE-MIN	UTES PER	DAY							_			
STATION		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		STATION	PRECIP. RATE	CROP COEF.
	SHRUBS	16	16	20	28	32	34	34	36	36	21	16	12		1,7,11	0.48	0.2
	TREES	5	5	6	9	10	11	11	11	11	6	5	4		2,6,8	1.55	0.5
	TURF	24	24	29	41	47	49	49	53	52	30	23	18		3,4,5,6,9,10	0.33	0.8
IRRIGAT	ION CONT	ROLLE	R SCH	EDULE	- ESTA	BLISHE	ΕD										
DATE:	8/12/2019					CITY:	Anaheim						REVISION	HISTORY	:		
PROJECT:	Maxwell Dog) Park															
CLIENT:	City of Anah					WUCOLS	ZONE:	Long Bea	ch				REVISED	BY:			
	•																
PREPARED E	BY NUVIS																
CONTROLLE	R 'A'														SCHEDULING DA	\TA	
E.T. DATA		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1	%of ET	Efficiency Rate	Days Per Week
	MONTHLY	2.70	2.70	3.30	4.60	5.30	5.60	5.60	6.00	5.90	3.40	2.60	2.00			1	
	WEEKLY	0.63	0.63	0.77	1.07	1.23	1.30	1.30	1.40	1.37	0.79	0.60	0.47		1	0.81	3
	DAILY	0.09	0.10	0.11	0.15	0.17	0.19	0.18	0.19	0.20	0.11	0.09	0.06				
						UTES PER								1			
STATION		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		STATION	PRECIP. RATE	
	SHRUBS	26	26	32	45	51	54	54	58	57	33	25	19		1,7,11	0.48	0.3
	TREES	8	8	10	14	16	17	17	18	18	10	8	6		2,6,8	1.55	0.5
	TURF	38	38	47	65	75	79	79	85	83	48	37	28		3,4,5,6,9,10	0.33	8.0

THE IRRIGATION SCHEDULE IS A GUIDELINE ONLY, THIS WILL NOT REPLACE THE REQUIREMENT FOR ONGOING IRRIGATION ADJUSTMENTS AND MAINTENANCE MANAGEMENT BY

THE CONTRACTOR. SITE AND CLIMATIC CONDITIONS WILL REQUIRE FURTHER ADJUSTMENTS NOT SHOWN IN THIS SCHEDULE.

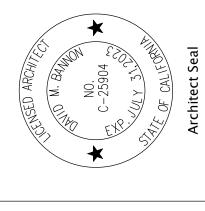


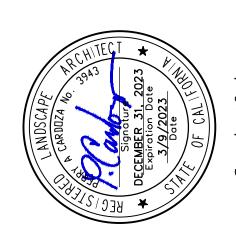
20250 SW ACACIA ST, STE 260 NEWPORT BEACH, CA U.S.A. 92660 PH: 714.754.7311

L A N D S C A P E ARCHITECTURE

Architecture · Planning · Interior Design ph: 714.665.8030 costa Mesa, ca 92627





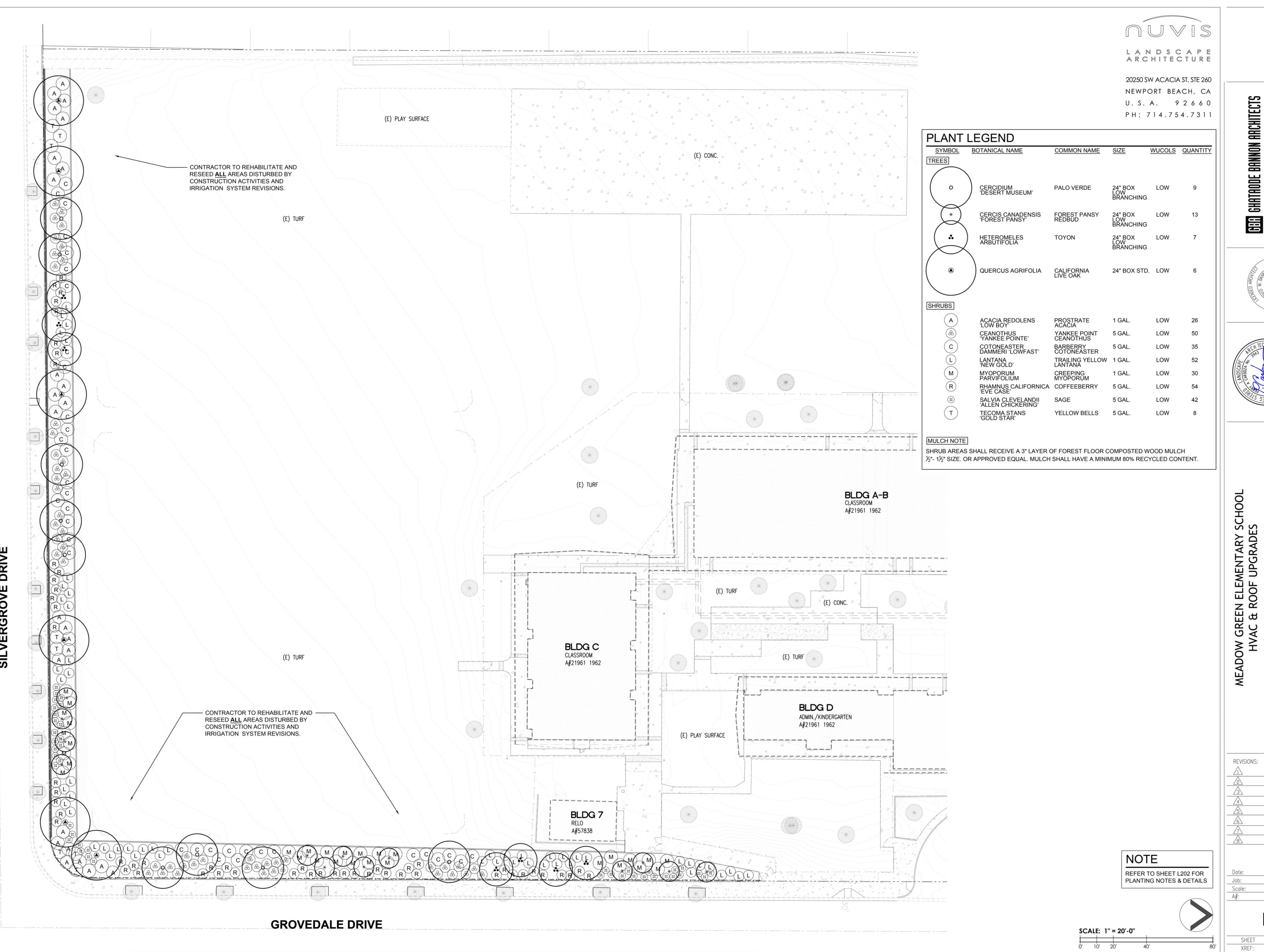


MEADOW GREEN ELEMENTARY SCHOOL HVAC & ROOF UPGRADES

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- OF XXX

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- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL PLANT MATERIAL AS SHOWN ON THE DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
- IMPROVEMENTS AND HARDSCAPE SHALL BE INSTALLED PRIOR TO PLANTING OPERATIONS.
- OPERATIONAL TESTS AND THE BACKFILLING AND COMPACTION OF TRENCHES SHALL BE PERFORMED PRIOR TO PLANTING OPERATIONS.
- SHALL TAKEOFF AND VERIFY SIZES AND QUANTITIES BY PLAN CHECK.
- SAMPLES OF FERTILIZERS, ORGANIC AMENDMENT, SOIL CONDITIONERS, AND SEED SHALL BE SUBMITTED PRIOR TO INCORPORATION. CONTRACTOR SHALL FURNISH TO THE CITY/OWNER'S AUTHORIZED REPRESENTATIVE A CERTIFICATE OF COMPLIANCE FOR SUCH FURNISHED MATERIALS.
- AMENDMENTS, AS INDICATED IN THE SOILS REPORT SHOWN ON THE DRAWINGS, ARE BASED ON AGRICULTURAL SUITABILITY SOILS TESTS PERFORMED PRIOR TO GRADING AND WERE PRESENTED FOR BIDDING PURPOSES. IF NO SOILS REPORT EXISTS, CONTRACTOR SHALL PROPOSE ON AMENDMENTS AS STATED IN THE SPECIFICATIONS. CLIENT OR CONTRACTOR SHALL OBTAIN AGRICULTURAL SOILS TESTING AND RECOMMENDATIONS AFTER GRADING OPERATIONS AND PRIOR TO PLANT INSTALLATION.
- 10. IF, DURING PLANTING OPERATIONS THERE SEEMS TO BE MINIMAL OR NO PERCOLATION IN PLANTING PITS, CONTRACTOR SHALL CEASE PLANTING OPERATIONS AND IMMEDIATELY NOTIFY THE CITY/OWNER'S AUTHORIZED DRAINAGE MEASURES.
- MULCH $\frac{1}{2}$ "- 1 $\frac{1}{2}$ " SIZE. OR EQUAL. MULCH SHALL HAVE A MINIMUM 80% RECYCLED

PREVAILING WINDS

2 x DIAMETER

OF ROOTBALL

PREVAILING WINDS

OF ROOTBALL

NOTES: ABOVE FINISH GRADE.

- (3) A SHALLOW BASIN 2" DEEP SHALL BE
- GRADE. TREES PLANTED IN TURF AREAS SHALL NOT HAVE BASINS. (4) FINISH GRADE
- OR APPROVED EQUAL AT BASE OF TRUNK.
- PROJECT AGRICULTURAL SUITABILITY SOILS REPORT (7) ROOTBALL

(DOUBLE STAKE - 15 GAL. & 24" BOX) TREE PLANTING SCALE: NTS

- NOTES: 2. FOR ADDITIONAL INFORMATION
- 1) REMOVE NURSERY STAKE AND REPLACE WITH ONE (1) 2" DIA, MINIMUM, x 10' LODGE POLE STAKE, OR 'TOMAHAWK TREE STABILIZER SYSTEM (800) 845-3343, OR APPROVED EQUAL (FOR 5 GALLON, 15 GALLON & 24" BOX SIZES). PLACE ON
- (2) EDGE OF SLOPE BEYOND (3) CINCH TIE, ARBOR TIE, OR
- 4) A SHALLOW BASIN 2" DEEP SHALL BE FORMED AROUND BALL BELOW FINISH GRADE ON DOWNWARD SIDE
- (5) FINISH GRADE SUITABILITY SOILS REPORT
- 2 TREE PLANTING SLOPE
 SCALE: NTS

PLANTING PLAN NOTES

1. CROWN OF ROOTBALL TO BE 1/2" - 1" ABOVE FINISH GRADE.

SPECIFICATIONS.

FINISH GRADE

(2) FINISH GRADE

4 ROOTBALL

(1) A SHALLOW BASIN 2" DEEP SHALL BE

(3) BACKFILL IN ACCORDANCE WITH

PROJECT AGRICULTURAL

SCALE: NTS

SPECIFICATIONS.

(1) EDGE OF SLOPE BEYOND

(2) A SHALLOW BASIN 2" DEEP

(3) BACKFILL IN ACCORDANCE

SCALE: NTS

SPECIFICATIONS.

AND/OR PLANS

(1) TYPICAL PLANT SPACING

(2) EDGE OF PLANTING AREA

VARIES - SEE PLANT LEGEND

OTHERWISE INDICATED ON PLANS.

MINIMUM FROM EDGE OF PLANTING AREA.

WITH PROJECT

SOILS REPORT

(4) ROOTBALL

(5) FINISH GRADE

SHALL BE FORMED AROUND

GRADE ON DOWNWARD SIDE

AGRICULTURAL SUITABILITY

ROOTBALL BELOW FINISH

SUITABILITY SOILS REPORT

FORMED AROUND ROOTBALL BELOW

SHRUB PLANTING

CROWN OF ROOTBALL TO BE 1/2"-1" ABOVE FINISH GRADE.

2. FOR ADDITIONAL INFORMATION REFER TO PLANTING NOTES AND

2. FOR ADDITIONAL INFORMATION REFER TO PLANTING NOTES AND

2 x DIAMETER

OF ROOT BALL

2 x DIAMETER

OF ROOTBALL

EQUAL EQUAL

SHRUB PLANTING - SLOPE

1. ALL PLANTS SHALL BE PLANTED AT EQUAL SPACING (TRIANGULAR UNLESS

INFILL PLANTS AS REQUIRED TO MAINTAIN SPACING AT IRREGULAR EDGES.

4. FOR ADDITIONAL INFORMATION REFER TO PLANTING NOTES AND

GROUNDCOVER SPACING
SCALE: NTS

2. AS APPROPRIATE, CENTERLINE OF PLANTS SHALL BE 1/2 OF EQUAL SPACING

UNLESS DESIGNATED ON THE DRAWINGS OTHERWISE, STRUCTURAL

- ALL WORK ON THE IRRIGATION SYSTEM, INCLUDING HYDROSTATIC, COVERAGE, AND
- PLANT LIST ON THE DRAWINGS SHALL BE USED AS A GUIDE ONLY. CONTRACTOR
- LOCATIONS OF PLANT MATERIAL SHALL BE REVIEWED ON SITE BY THE CITY/OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION.
- B. TREES SHALL BE PLANTED NO CLOSER THAN TEN FEET (10') FROM UTILITIES.
- TREES PLANTED WITHIN FIVE FEET (5') OF HARDSCAPE OR STRUCTURES SHALL BE INSTALLED WITH A ROOT BARRIER AS APPROVED BY THE CITY/OWNER'S AUTHORIZED REPRESENTATIVE.
- REPRESENTATIVE TO DISCUSS ALTERNATIVE TO MAINTAINING POSITIVE ROOTBALL
- SHRUB AREAS SHALL RECEIVE A 3" LAYER OF FOREST FLOOR COMPOSTED WOOD

CROWN OF ROOTBALL TO BE 1 FOR ADDITIONAL INFORMATION REFER TO PLANTING NOTES AND SPECIFICATIONS.

- (1) 2"Ø MINIMUM X 10' LODGE POLE STAKE BOTH SIDES, OR 'TOMAHAWK TREE STABILIZER SYSTEM' (800) 845-3343, OR APPROVED EQUAL
- 2 CINCH TIE, ARBOR TIE, OR APPROVED EQUAL
- FORMED AROUND BALL BELOW FINISH
- (5) TREES INSTALLED WITHIN TURF AREAS SHALL BE INSTALLED WITH 'ARBOR-GARD'
- (6) BACKFILL IN ACCORDANCE WITH

1. USE NURSERY STAKE FOR 1 GALLON. REFER TO PLANTING NOTES AND SPECIFICATIONS.

WINDWARD SIDE OF TREE

- APPROVED EQUAL
- 6 BACKFILL IN ACCORDANCE WITH PROJECT AGRICULTURAL
- 7 ROOTBALL

Archite

ARCHITECTS

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