

GENERAL NOTES

- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPWC) AND THE CONTRACT DOCUMENTS. PLANS AND SPECIFICATIONS ARE MADE A PART HEREOF AS IF SPELLED OUT IN THEIR ENTIRETY. UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL NOTIFY THE CITY'S REPRESENTATIVE AND ALL OTHER INTERESTED PARTIES AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO THE START OF WORK.
- AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE REGIONAL NOTIFICATION CENTER (UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA - U.S.A AT 1-800-227-2600) AND REQUEST THAT UTILITY OWNERS MARK OR OTHERWISE INDICATE THE LOCATION OF THEIR FACILITIES. BEFORE COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL POHOLE AND EXPOSE THE EXISTING UTILITIES AT ALL CROSSINGS AND AT THE POINT OF THE IN; THEN CONTACT THE CITY'S REPRESENTATIVE SO THE ELEVATION OF THE EXISTING FACILITIES CAN BE VERIFIED. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ALL UTILITIES AND ALL STRUCTURES FOUND AT THE SITE.
- THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION SHALL OBTAIN ALL REQUIRED PERMITS AND HAVE A CURRENT BUSINESS LICENSE(S).
- DURING ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBSERVE, FOLLOW, AND IMPLEMENT ALL THE REQUIREMENTS OF THE NPDES AND STORMWATER POLLUTION PREVENTION PROGRAM AND KEEP THE WORK SITE, INCLUDING HAUL ROUTES, CLEAN AND FREE FROM RUBBISH AND DEBRIS. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL AT ALL TIMES KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY THEIR WORK, AND AT THE COMPLETION OF THE WORK, SHALL REMOVE ALL RUBBISH FROM AND ABOUT THE JOB SITE, AND ALL THEIR TOOLS, SCAFFOLDING, AND SURPLUS MATERIALS, AND SHALL LEAVE THE JOB BROOM CLEAN. THE PROJECT SITE SHALL BE KEPT NEAT AND ORDERLY. TRASH AND DEBRIS GENERATED BY CONSTRUCTION OPERATIONS SHALL BE REMOVED FROM THE PROJECT SITE ON A REGULAR BASIS. 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 CITY'S REPRESENTATIVE THROUGHOUT THE CONSTRUCTION OPERATION.
- THE CONTRACTOR SHALL KEEP A STRICT RECORD OF ALL CHANGES AND SUBMIT THIS RECORD TO THE CITY BEFORE THE FINAL ACCEPTANCE OF THE PROJECT SHALL BE FILED.
- THE CONTRACTOR SHALL EXERCISE DUE CARE TO AVOID INJURY TO EXISTING IMPROVEMENTS OR FACILITIES, UTILITY FACILITIES, ADJACENT PROPERTY, AND TREE AND SHRUBBERY THAT ARE NOT TO BE REMOVED. ALL DAMAGE CAUSED TO 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 SATISFACTION OF THE CITY'S REPRESENTATIVE.
- THE CONTRACTOR SHALL DESIGNATE AND KEEP ON THE PROJECT AT ALL TIMES DURING ITS PROGRESS A COMPETENT SUPERINTENDENT WHO SHALL NOT BE REPLACED WITHOUT WRITTEN NOTICE TO THE CITY'S REPRESENTATIVE. THE SUPERINTENDENT WILL BE THE CONTRACTOR'S REPRESENTATIVE AT THE SITE AND SHALL HAVE AUTHORITY TO ACT ON BEHALF OF THE CONTRACTOR. ALL COMMUNICATIONS GIVEN TO THE SUPERINTENDENT SHALL BE AS BINDING AS IF GIVEN TO THE CONTRACTOR. DURING PERIODS WHEN THE WORK IS SUSPENDED, THE CONTRACTOR SHALL MAKE APPROPRIATE ARRANGEMENTS FOR ANY EMERGENCY WORK, WHICH MAY BE REQUIRED.
- WHEN THE WORK OR ANY PORTION OF IT IS SUFFICIENTLY COMPLETE TO BE UTILIZED OR PLACED INTO SERVICE, THE CITY SHALL HAVE THE RIGHT UPON WRITTEN NOTIFICATION TO THE CONTRACTOR TO UTILIZE SUCH PORTIONS OF THE WORK AND TO PLACE THE OPERABLE PORTIONS INTO SERVICE AND TO OPERATE SAME. UPON SAID NOTICE AND COMMENCEMENT OF UTILIZATION OR OPERATION BY THE CITY, THE CONTRACTOR SHALL BE RELIEVED OF THE DUTY OF MAINTAINING THE PORTIONS SO UTILIZED OR PLACED INTO OPERATION; PROVIDED, HOWEVER, THAT NOTHING IN THIS NOTE SHALL BE CONSTRUED AS RELIEVING THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR COMPLETING THE WORK IN ITS ENTIRETY, FOR MAKING GOOD DEFECTIVE WORK AND MATERIALS, FOR PROTECTING THE WORK FROM DAMAGE, AND FOR BEING RESPONSIBLE FOR DAMAGE.
- THE CONTRACTOR SHALL SO CONDUCT HIS OPERATIONS AS TO OFFER THE LEAST POSSIBLE OBSTRUCTION AND INCONVENIENCE TO THE PUBLIC, AND HE SHALL HAVE UNDER CONSTRUCTION NO GREATER LENGTH OR AMOUNT OF WORK THAN HE CAN PROSECUTE PROPERLY WITH DUE REGARD TO THE RIGHTS OF THE PUBLIC. CONVENIENT ACCESS TO DRIVEWAYS, HOUSES, AND BUILDINGS ALONG THE LINE OF WORK SHALL BE MAINTAINED AND TEMPORARY CROSSINGS SHALL BE PROVIDED AND MAINTAINED IN GOOD CONDITION.
- UNTIL THE ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL HAVE THE RESPONSIBLE CHARGE AND CARE OF THE WORK AND OF THE MATERIALS TO BE USED THEREIN AND SHALL BEAR THE RISK OF INJURY, LOSS, OR DAMAGE TO ANY PART THEREOF BY THE ACTION OF ELEMENTS OR FROM ANY OTHER CAUSE, WHETHER ARISING FROM THE EXECUTION OR FROM THE NON-EXECUTION OF THE WORK.
- IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK, AND THE CONTRACTOR SHALL FULLY COMPLY WITH ALL STATE, FEDERAL, AND OTHER LAWS, RULES, REGULATIONS, AND ORDERS RELATING TO SAFETY OF WORKERS AND ALL OTHERS. THIS MAY INCLUDE THE ISSUANCE OF PERSONAL PROTECTIVE EQUIPMENT.
- THE LANDS AND RIGHTS-OF-WAY FOR THE PROJECT TO BE CONSTRUCTED WILL BE PROVIDED BY THE CITY AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAKE HIS OWN ARRANGEMENTS AND PAY ALL EXPENSES FOR ADDITIONAL AREA REQUIRED BY HIM BEYOND THE LIMITS OF THE CITY'S LANDS AND RIGHTS-OF-WAY. THE CONTRACTOR SHALL FURNISH WRITTEN COPIES OF ALL PERMISSION GRANTED BY PRIVATE PARTIES FOR ACCESS OR USE IN RELATION TO THIS PROJECT. AT THE END OF THE PROJECT AND PRIOR TO FINAL ACCEPTANCE THE CONTRACTOR SHALL OBTAIN RELEASES FROM ALL PARTIES WHERE PERMISSION WAS GRANTED.
- ALL UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY THE OWNER OR THOSE SHOWN ON RECORDS EXAMINED ARE INDICATED WITH THEIR APPROPRIATE LOCATION AND EXTENT. THE CONTRACTOR, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO, UNDERSTANDS THAT HE AGREES TO ASSUME THE LIABILITY AND AGREES TO HOLD THE CITY HARMLESS FOR ANY LIABILITY FOR DAMAGE RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE CITY, NOT INDICATED ON THE PUBLIC RECORDS EXAMINED, OR LOCATED AT VARIANCE WITH THAT REPORTED OR SHOWN ON RECORDS EXAMINED. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.
- THE CONTRACTOR SHALL PERFORM ALL SURVEY WORK AND LAYOUT STREET CENTERLINE AND FIELD VERIFY THEIR CONFORMITY TO THE GRADES AND HORIZONTAL ALIGNMENTS SHOWN ON PLANS.
- PLANS DO NOT SHOW ALL ABANDONED FACILITIES. FACILITIES ENCOUNTERED DURING THE PROSECUTION OF THE WORK, WHICH ARE DETERMINED TO BE ABANDONED, SHALL BE REMOVED BY THE CONTRACTOR AS REQUIRED FOR THE WORK. FULL COMPENSATION FOR SUCH WORK SHALL BE CONSIDERED AS INCLUDED IN THE BID PRICES FOR THE ITEMS OF WORK NECESSITATING SUCH REMOVALS.
- THE CONTRACTOR SHALL NOT ORDER OR PLACE PORTLAND CEMENT CONCRETE UNTIL THE FORMS HAVE BEEN INSPECTED AND APPROVED BY THE CITY'S REPRESENTATIVE IN THE FIELD.
- ALL ITEMS ON SITE TO BE PROTECTED IN PLACE EXCEPT NOTED OTHERWISE ON PLAN.
- ELEVATIONS ARE IN FEET ABOVE THE U.S.C. & G.S. SEA LEVEL DATUM OF NAVD 1988.
- NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE CITY ENGINEER.
- APPROVAL OF THIS PLAN BY THE CITY OF CULVER CITY DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OF OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE, OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL PAGES.
- THE CONTRACTOR SHALL NOT DISCHARGE OR PERMIT TO BE DISCHARGED TO ANY STREET, STORM DRAIN OR ANY APPURTENANCES THEREOF, ANY NON-RAIN WATER OR OTHER LIQUID FROM THE PROJECT SITE OR FROM OPERATIONS PERTAINING TO THE PROJECT SITE, PER NPDES PERMIT REGULATIONS AND CITY OF CULVER CITY STORMWATER MANAGEMENT AND DISCHARGE CONTROL PROGRAM, CCMC 5.05.
- THE CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING UTILITIES & UTILITY BOXES.
- CONTRACTOR TO EXECUTE DUE PRECAUTION DURING EXCAVATION ADJACENT TO EXISTING WATER LINE OR POWER POLES AND PROVIDE ADEQUATE SHORING AND/OR BRACING.

TRAFFIC CONTROL GENERAL NOTES

- ALL TRAFFIC CONTROL WORK FOR CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF:
 - THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (CA MUTCD),
 - WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH MANUAL),
 - ALL O.S.H.A. REQUIREMENTS.
- ALL SIGNING AND STRIPING SHALL CONFORM TO THE LATEST CALTRANS STANDARD PLANS AND SPECIFICATIONS AND THE CITY OF CULVER CITY LATEST "SIGNING AND STRIPING GENERAL NOTES".
- NO WORK SHALL BEGIN BEFORE 8:00 AM OR CONTINUE AFTER 8:00 PM DURING WEEKDAYS, BEFORE 9:00 AM OR CONTINUE AFTER 7:00 PM ON SATURDAYS, OR BEFORE 10:00 AM OR CONTINUE AFTER 6:00 PM ON SUNDAYS ON ARTERIAL STREETS. THE ONLY EXCEPTION IS WHEN THE TRAFFIC CONTROL PLAN HAS BEEN APPROVED FOR 24 HOUR LANE CLOSURES. IN THIS CASE, THE CONTRACTOR CAN ONLY WORK BEHIND THE TRAFFIC CONTROL DEVICES WITHIN THE APPROVED 24-HOUR LANE CLOSURE PERIOD.
- NO WORK IS PERMITTED ON HOLIDAYS UNLESS APPROVED BY THE CITY ENGINEER.
- DURING NON-WORKING HOURS OR WHEN WORK IS NOT SCHEDULED, ALL ROADWAYS LANES SHALL BE RETURNED TO THEIR FULL TRAFFIC USAGE ON THE SAME DAY BY PLATING OR BACKFILLING THE OPEN TRENCHES, AND CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES USED FOR TRAFFIC CONTROL OR DETOUR OR AS DIRECTED BY THE CITY REPRESENTATIVE. THE ONLY EXCEPTION IS WHEN THE TRAFFIC CONTROL PLAN HAS BEEN APPROVED FOR 24 HOUR LANE CLOSURES. IN THIS CASE, THE CONTRACTOR SHALL MAINTAIN ALL TRAFFIC CONTROL DEVICES USED FOR TRAFFIC CONTROL OR DETOURS DURING THE APPROVED 24-HOUR LANE CLOSURES.
- THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS POINT TO ALL ADJACENT PROPERTIES AND FIRE HYDRANTS.
- ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE.
- THE CONTRACTOR SHALL HAVE ALL SIGNS, DELINEATORS, BARRICADES, ETC., PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
- ALL TUBULAR DELINEATORS SHALL BE 36" MINIMUM HEIGHT AND CONES SHALL BE 28" MINIMUM HEIGHT AND SHALL INCLUDE A 6" AND 4" HIGH INTENSITY REFLECTORIZED SLEEVES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ANY ADDITIONAL TRAFFIC CONTROL DEVICES REQUIRED BY THE CITY TO ASSURE SAFETY TO THE PUBLIC AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL RESTORE ANY AND ALL STRIPING, PAVEMENT MARKINGS, AND TRAFFIC SIGNAL LOOPS DAMAGED OR REMOVED DURING CONSTRUCTION TO THE SATISFACTION OF THE CITY REPRESENTATIVE.
- THE CONTRACTOR SHALL TELEPHONE THE CITY OF CULVER CITY INSPECTION AT LEAST TWO WORKING DAYS (48 HOURS) PRIOR TO THE STARTING TRAFFIC CONTROL DELINEATION.
- ARROW BOARDS SHALL BE USED ON ANY LANE CLOSURES ON ARTERIAL STREETS.
- THE CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC DURING CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN TWO LANES OF TRAFFIC IN EACH DIRECTION DURING CONSTRUCTION ON MAJOR ARTERIAL STREETS.
- IF TRAFFIC SIGNAL DETECTION LOOPS CANNOT BE REPLACED BY THE END OF THE WORK DAY THEN THE CONTRACTOR, PRIOR TO CUTTING ANY DETECTION LOOP SYSTEM, SHALL FURNISH AND INSTALL AN OPERATIONAL TEMPORARY VIDEO DETECTION SYSTEM IN ACCORDANCE WITH CITY OF CULVER CITY STANDARDS.
- ANY UNANTICIPATED DAMAGES TO THE TRAFFIC SIGNAL INTERCONNECT CONDUIT, INTERCONNECT CABLE, OR DETECTION LOOP SYSTEM DURING PROGRESSION OF WORK SHALL BE REPLACED WITHIN 72 HOURS TO THE SATISFACTION OF THE CITY INSPECTOR.

ENGINEER'S NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY SEARCH OF THE AVAILABLE RECORDS, TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES INCLUDING GAS LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

CONTRACTOR TO FOLLOW THE RECOMMENDATION OF SOILS REPORT NO. 20438 DATED DECEMBER 6, 2012.

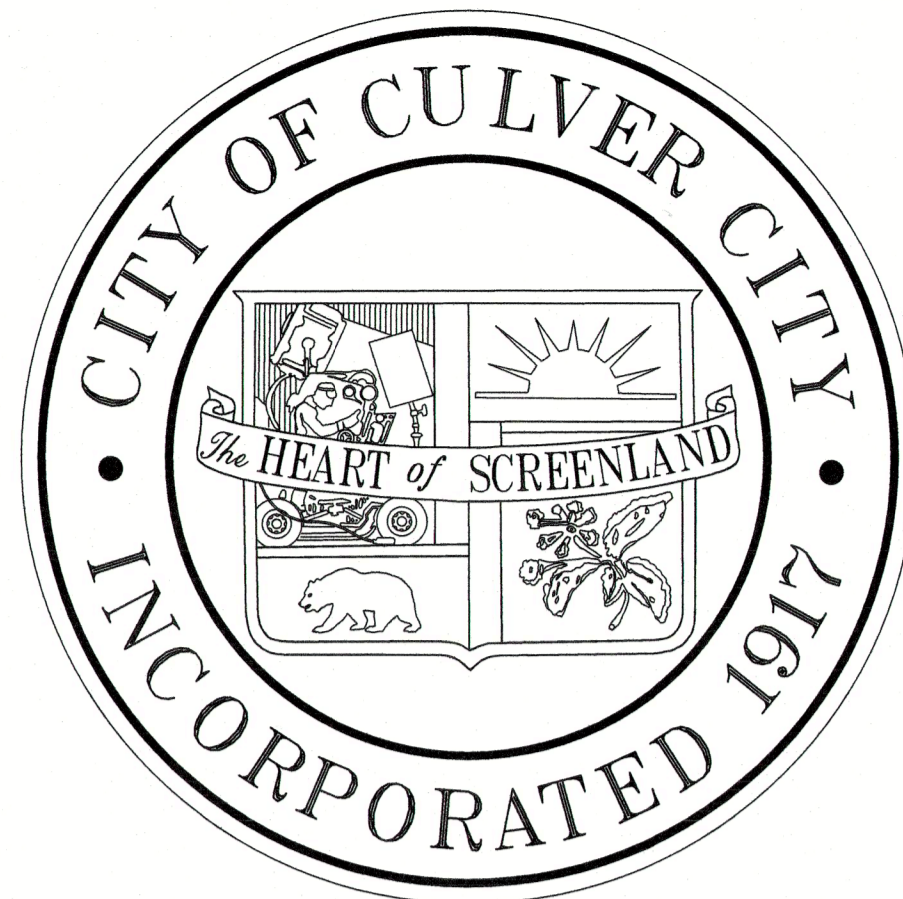
SURVEYOR'S NOTES:

SURVEY PROVIDED BY KIMLEY HORN AND ASSOCIATES, INC.

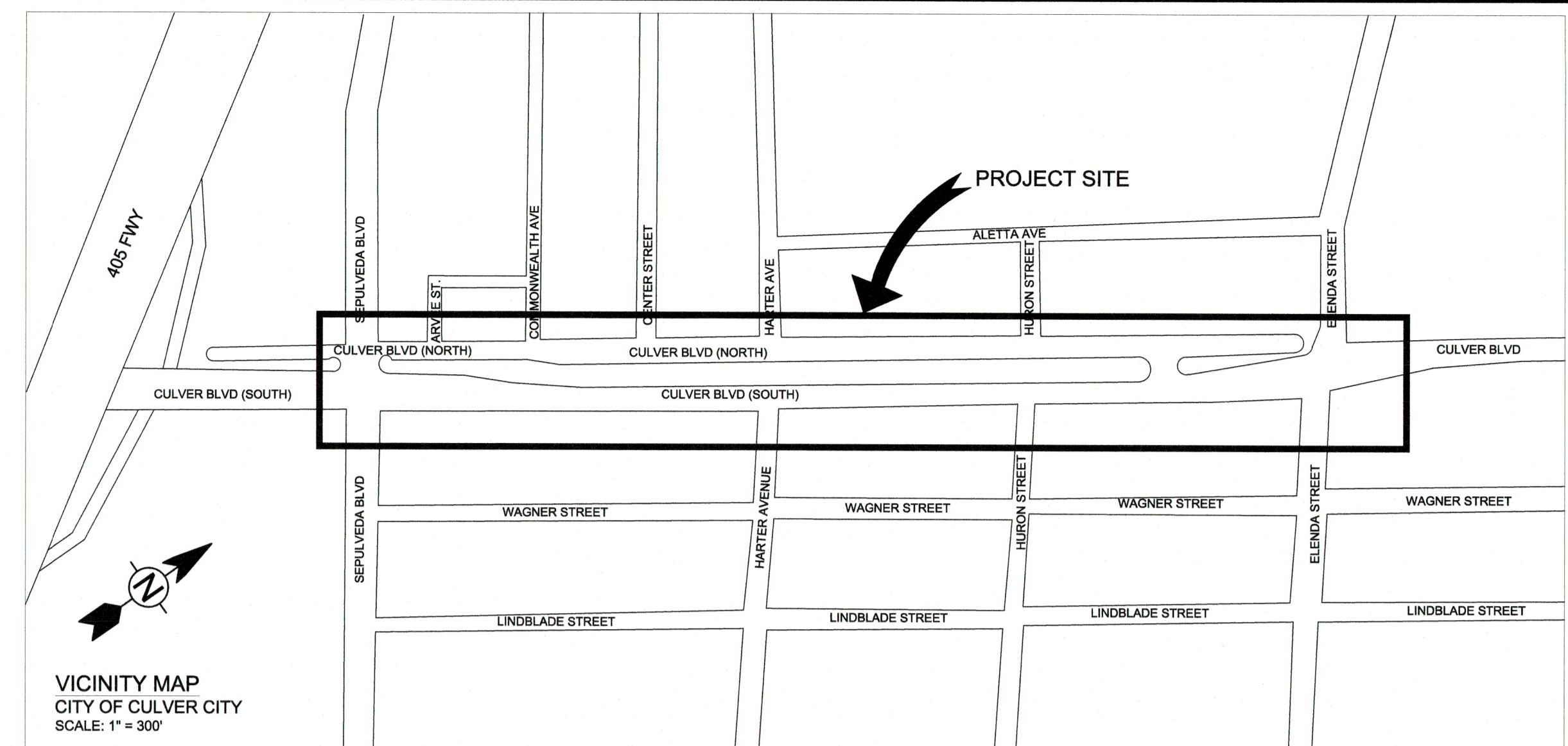
- DATE OF SURVEY: OCTOBER 9, 10, 11, 12, 16, 18, AND 23, 2012.
- HORIZONTAL DATUM BASED UPON R.S. 164 - 42/45. THRU SURVEY CONTROL POINT NO.'S 122, 121, AND 35.
- VERTICAL DATUM: NAVD 88 BASED UPON R.S. 164 - 42/45. THRU SURVEY CONTROL POINT NO.'S 122, 121, AND 35.
- UNDERGROUND UTILITIES SHOWN HEREON ARE PER CULVER CITY, TORRANCE LOGISTICS, LA COUNTY FLOOD CONTROL DISTRICT, SO. CAL. EDISON, AND SO. CAL. GAS RECORDS AND PER FIELD LOCATION AS EVIDENCED BY PAINT MARKS ON THE PAVEMENT, AND CANNOT BE GUARANTEED FOR COMPLETENESS OR ACCURACY. THEIR LOCATION SHOULD BE VERIFIED IN THE FIELD BEFORE ANY EXCAVATION

TETRA TECH FIELD SURVEYING:

- MAY 15, 2018: SURVEYED THE RIM AND INVERT ELEVATIONS OF EXISTING UTILITY MANHOLES
- MAY 22, 2018: SURVEYED SUPPLEMENTAL TOPOGRAPHIC SITE FEATURES



**CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
(310) 253-5600
CULVER BOULEVARD REALIGNMENT
PROJECT # PZ-460**



UTILITY COMPANY CONTACTS

COMPANY	CONTACT	PHONE NO.
UNDERGROUND SERVICE ALERT		1-800-422-4133
SOUTHERN CALIFORNIA GAS COMPANY	AARON BELL	(310) 605-7918
GOLDEN STATE WATER COMPANY	JOHNNY ORTIZ	(310) 838-1324
SOUTHERN CALIFORNIA EDISON	PAULA LEE	(310) 315-3220
GENERAL TELEPHONE CO. (GTE)	ALBERT ALEMAN	(310) 584-4442
MCI WORLDCOM	DEAN BOYERS	(972) 729-6322
PACIFIC BELL	LOREY LAVERY	(818) 373-5960
LADWP	HAMID FADAKAR	(310) 367-5659
CHEVRON PIPELINE COMPANY	GERALD McCLELLAN	(714) 228-1530
MOBILE OIL CORPORATION	TERRI SHINDE	(310) 212-1794
MWD-WATER SYSTEM OPERATION GROUP	KEVIN JOHANSEN	(562) 713-0348
AT&T	MARIA GUZMAN	(213) 787-9996
TORRANCE VALLEY PIPELINE	ADRIANE SIMON	(310) 625-3886
AIRTOUCH CELLULAR	JOHN CROSSE	(818) 625-5307
CHARTER	EMIR EBRA	DL-SOCAL-CHARTER-ENGINEERING@CHARTER.COM
FRONTIER	JERRY RUIZ	(909) 469-6343
XO COMMUNICATIONS	MATT BERGINE	(949) 417-7841

PROJECT TEAM

PROJECT MANAGER: CITY OF CULVER CITY MATE GASPAR, PE PROJECT MANAGER CITY OF CULVER CITY - CITY HALL 9770 CULVER BLVD. CULVER CITY, CA. 90232 PHONE: (310) 253-5600	TRAFFIC & SIGNAL: FPL & ASSOCIATES, INC. FONG-PING LEE, TE, PE TRAFFIC ENGINEER 30 CORPORATE PARK, SUITE 401 IRVINE, CA 92606 PHONE: (949) 252-1688
CIVIL ENGINEERING: TETRA TECH, INC. JASON FUSSEL, PE, PLS, ENV SP, QSD/P PROJECT ENGINEER 711 TANK FARM ROAD SAN LUIS OBISPO, CA 93401 PHONE: (805) 542-9052	LANDSCAPE: SWA GROUP GERDO AQUINO, RLA LANDSCAPE ARCHITECT 811 W 7TH STREET, 8TH FLOOR LOS ANGELES, CA 90017 PHONE: (213) 236-9090

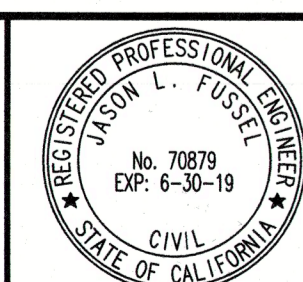
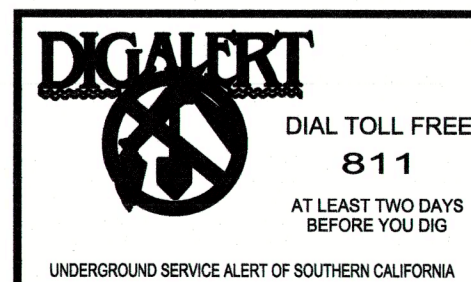
CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA

CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

TITLE SHEET

APPROVED BY CHARLES D. HERBERTSON P.E., L.S.
 PUBLIC WORKS DIRECTOR/CITY ENGINEER
 DATE: 6/11/2019

SHEET
G-01
SHEET 1 OF 85 SHEETS



NO.	REVISION	BY	APPR.	DATE

SHEET NUMBERS 36-45 REVIEWED BY PATRICK REYNOLDS Patrick Reynolds CITY LANDSCAPE ARCHITECT DATE 06/06/2019	SHEET NUMBERS 1-35 REVIEWED BY MATE GASPAR, P.E. MATE GASPAR ENGINEERING SERVICES MANAGER DATE 06/06/2019
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TRAFFIC SIGNAL GENERAL NOTES

- ALL MATERIAL AND WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CALIFORNIA MUTCD), STANDARD PLANS AND STANDARD SPECIFICATIONS OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, FHWA STANDARD HIGHWAY SIGNS, CALIFORNIA SIGN SPECIFICATION, AND THE SPECIAL PROVISIONS.
- ALL MATERIAL AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR NEW AND UNUSED, UNLESS OTHERWISE NOTED.
- SIGNAL POLES, CONTROLLER CABINET, PULL BOXES, AND SERVICE CABINET SHALL BE CONSISTENT WITH THE DESIGN PLANS BUT MAY BE ADJUSTED BY THE CITY SIGNAL TECHNICIAN IN THE FIELD AS NECESSARY.
- ALL WIRING SHALL BE MARKED (TAGGED) WITHIN THE CONTROLLER CABINET AND PULL BOXES FOR PHASE IDENTIFICATION.
- UNLESS SHOWN OTHERWISE, DETECTOR LOOPS SHALL BE INSTALLED PER CITY OF LOS ANGELES DEPARTMENT OF TRANSPORTATION (LADOT) STANDARD PLANS S-70.0, S-70.1A AND S-70.1 D, EXCEPT THAT THE SEPARATION BETWEEN LOOPS SHALL BE 10 FEET. THE NEAR EDGE OF LIMIT LINE DETECTORS SHALL BE ONE FOOT UPSTREAM FROM THE CENTER OF THE LIMIT LINE. ADVANCE DETECTORS SHALL BE SEPARATELY WIRED TO EACH LANE AND CENTERED IN EACH LANE.
- ALL NEW TRAFFIC SIGNAL HEAD AND PEDESTRIAN HEAD HOUSINGS SHALL BE BLACK POLYCARBONATE WITH COLOR RETENTION. NEW TRAFFIC SIGNAL INDICATORS SHALL BE 12" LED TYPE AND PEDESTRIAN INDICATORS SHALL BE TWO SECTIONS WITH LED LAMPS AND WITH COUNTDOWN NUMERALS, UNLESS OTHERWISE SPECIFIED.
- ALL LOOPS SHALL BE PROPERLY LABELED IN THE PULL BOXES.
- ALL MULTI-CONDUCTOR CABLES SHALL BE LABELED PER PHASE IN EACH PULL BOX IF THE COLOR INDICATION CHANGES.
- ALL SIGNAL EQUIPMENT SHALL BE WIRED IN ACCORDANCE WITH THE SIGNAL PHASE DIAGRAM.
- NEW CONDUIT SHALL BE 4" PVC SCHEDULE 80, UNLESS OTHERWISE NOTED.
- NEW PULL BOXES SHALL BE No. 6 UNLESS OTHERWISE NOTED.
- NEW PEDESTRIAN PUSH BUTTONS SHALL BE ACCESSIBLE PEDESTRIAN SIGNALS PER LADOT STD. PLAN S-73.2.
- NEW TRAFFIC SIGNAL BACKPLATES SHALL CONFORM TO LADOT STANDARD PLAN S-77.8A.
- NEW LUMINAIRES SHALL BE INDUCTION, CUT-OFF TYPE AND SHALL HAVE BOTH INTEGRAL BALLASTS AND INTEGRAL PHOTO ELECTRIC CONTROLS.
- MAST-ARM MOUNTED STREET NAME SIGNS SHALL BE PROVIDED USING INTERNALLY-ILLUMINATED LED LIGHT SOURCES. THE SIGN PANELS, SIGN FRAME AND MOUNTING HARDWARE SHALL BE TEMPLE EDGE-LIT RAZOR INTERNALLY-ILLUMINATED LED STREET NAME SIGNS, OR CITY APPROVED EQUIVALENT. THE SIGN PANELS SHALL BE DISPLAYED ON BOTH SIDES WITH GREEN BACKGROUND AND WHITE LETTERING. THE SIGNS SHALL INCLUDE 12" UPPER CASE AND 9" LOWER CASE SERIES C LETTERS WITH STREET TITLES OF "ST", "AV", "BL", "PL", ETC. THE SIGN HEIGHT SHALL BE 24" FOR A SINGLE LINE STREET NAME AND THE SIGN LENGTH SHALL BE AS LONG AS NECESSARY, BUT NOT TO EXCEED 120". THE SPACING BETWEEN LETTERS SHALL BE ONE STROKE WIDTH. THE SPACING BETWEEN WORDS SHALL BE 7" AND THE SPACING AT THE LEFT AND RIGHT EDGES OF THE SIGN SHALL BE NO LESS THAN 7".
- PRIOR TO WORKING ON SERVICE OR LIGHTING CIRCUITS, CONTACT MAINTENANCE OPERATIONS AT (310) 253-6433, 48 HOURS IN ADVANCE, FOR DAILY SAFETY CIRCUIT CLEARANCE.
- ALL SALVAGED TRAFFIC SIGNAL EQUIPMENT SHALL BE RETURNED TO CITY STORAGE YARD AT 9505 JEFFERSON BLVD. CONTACT FACILITIES MAINTENANCE SUPERVISOR AT (310) 253-6433.
- STREET LIGHTS SHALL REMAIN OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.
- WHENEVER NEW CONDUCTORS ARE TO BE INSTALLED IN A CONDUIT WITH EXISTING INDIVIDUAL CONDUCTORS (EXCEPT SERVICE WIRES), ALL INDIVIDUAL CONDUCTORS AT THE INTERSECTION SHALL BE REMOVED AND REPLACED WITH MULTI-CONDUCTOR CABLE. 28-CONDUCTOR CABLE SHALL BE INSTALLED IN ALL NEW STREET CROSSINGS UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE LOCATION OF SUCH UNDERGROUND FACILITIES WHICH MAY BE SUBJECT TO DAMAGE BY THE CONTRACTOR'S OPERATIONS. THIS SHALL INCLUDE BUT NOT BE LIMITED TO POT HOLING TO EXPOSE ALL UTILITY CROSSINGS WITH PROPOSED CONDUIT RUNS, TRAFFIC SIGNAL FOUNDATIONS, ETC.
- EMERGENCY VEHICLE PREEMPTION DEVICE SHALL BE OPTICOM MODEL 721. INSTALL M138 DETECTOR CABLE TO OPTICOM DISCRIMINATOR INSIDE CONTROLLER CABINET. OPTICOM CABLE TO BE UNSPLICED FROM CABINET TO DETECTOR.

LEGEND

- CONSTRUCTION FENCE
- EX. RIGHT OF WAY (RW) / PROPERTY LINE
- EASEMENT BOUNDARY LINE
- PROPOSED MAJOR CONTOUR LINE
- PROPOSED MINOR CONTOUR LINE
- PROPOSED STORM DRAIN LINE
- FLOW LINE
- EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- EXISTING STORM DRAIN
- EXISTING GAS LINE
- EXISTING UNDERGROUND TELEPHONE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING OVERHEAD TELEPHONE
- EXISTING UNDERGROUND ELECTRICAL
- EXISTING FENCE
- EXISTING IRRIGATION LINE
- DAYLIGHT LINE
- STORAGE RESERVOIR LIMITS
- STORAGE RESERVOIR EXCAVATION LIMITS
- PROP. RIGHT OF WAY (RW) / PROPERTY LINE

SIGNING AND STRIPING GENERAL NOTES

- ALL MATERIAL AND WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CALIFORNIA MUTCD), STANDARD PLANS AND STANDARD SPECIFICATIONS OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, FHWA STANDARD HIGHWAY SIGNS, CALIFORNIA SIGN SPECIFICATION, AND THE SPECIAL PROVISIONS.
- ALL STRIPING AND PAVEMENT LEGENDS SHALL BE ALKYD-BASED THERMOPLASTIC WITH RAISED PAVEMENT MARKERS UNLESS OTHERWISE NOTED.
- ALL CONFLICTING LINES AND LEGENDS SHALL BE REMOVED BY WET BLASTING OR GRINDING. REMOVAL OF RAISED PAVEMENT MARKERS SHALL NOT CAUSE STRUCTURAL DAMAGE TO THE PAVEMENT.
- ALL SALVAGED SIGNS AND POSTS SHALL BE DELIVERED TO THE CITY MAINTENANCE YARD, 9505 JEFFERSON BLVD, CITY OF CULVER CITY, (310) 253-6441, UNLESS OTHERWISE INDICATED.
- NEW SIGN POSTS SHALL BE "UNISTRUT" SQUARE GALVANIZED STEEL POSTS WITH A BREAKAWAY FEATURE, OR APPROVED EQUAL, PER LADOT STANDARD PLAN S-452.0.
- ALL NEW GROUND-MOUNTED STREET NAME SIGNS SHALL BE DOUBLE-SIDED RETRO-REFLECTORIZED TYPE WITH A GREEN BACKGROUND AND WHITE LEGEND. POST MOUNTED STREET NAME SIGNS SHALL USE 6 INCH UPPER CASE AND 4 1/2 INCH LOWER CASE SERIES C LETTERS WITH THE CITY SEAL AND LOGO, AS PER CITY STANDARD PLAN. ALL OVERHEAD STREET NAME SIGNS SHALL USE 12 INCH UPPER CASE AND 9 INCH LOWER CASE SERIES C LETTERS WITH NO CITY SEAL OR LOGO AND SHALL BE INTERNALLY-ILLUMINATED USING LEDS. SEE THE SPECIFICATIONS UNDER TRAFFIC SIGNALS. ALL NEW SIGNS ARE TO HAVE RETRO-REFLECTORIZED SHEETING WITH TYPE III BACKGROUNDS, TYPE VIII WHITE TEXT, AND UV/ANTI-GRAFFITI FILM.
- ALL SIGNS ARE TO BE PER THE STATE OF CALIFORNIA SIGN SPECIFICATIONS AND SHALL BE MINIMUM 0.1-INCH-THICK ALUMINUM SHEETING.
- ALL INSTALLATIONS AND REMOVALS OF SIGNS AND COLORED CURB ZONES ARE TO BE IMPLEMENTED BEFORE STRIPING MARKOUT.
- STRIPING SHALL BE MARKED OUT BY THE CONTRACTOR BY USE OF A THIN PAINTED LINE OVER A PULLED ROPE OR STRING. YELLOW MARKOUT IS TO BE USED FOR CENTERLINES AND YELLOW CROSSWALKS AND WHITE MARKOUT IS TO BE USED FOR ALL OTHER LINES. THE MARKOUT FOR DOUBLE YELLOW LINES AND BARRIER LINES IS TO BE A SOLID THIN LINE. AT INTERSECTIONS WITH CURVES OR WITH WIDTH CHANGES THE MARKOUT SHOULD BE PULLED ACROSS THE INTERSECTION TO ENSURE NO OFFSETS IN THE STRIPING. THE MARKOUT IS TO BE APPROVED BY THE CITY TRAFFIC ENGINEER FOR ALIGNMENT PRIOR TO FINAL INSTALLATION. A MINIMUM OF ONE WEEK NOTICE IS REQUIRED BY THE CITY TRAFFIC ENGINEER FOR APPROVAL OF STRIPING.
- TABS (TEMPORARY ADHESIVE DELINEATORS) SHALL BE INSTALLED IMMEDIATELY FOLLOWING STRIPING REMOVAL ALONG THE GHOST LINES OF THE REMOVED STRIPING. TABS ALSO SHALL BE INSTALLED IMMEDIATELY FOLLOWING RESURFACING BY ESTIMATING THE POSITIONING OF THE NEW STRIPING. IMMEDIATELY FOLLOWING THE INSTALLATION OF THE MARKOUT THE OLD TABS ARE TO BE REMOVED AND NEW TABS ARE TO BE INSTALLED ADJACENT TO THE MARKOUT, UNLESS THE OLD TABS ARE WITHIN ONE FOOT OF THE MARKOUT. ALL TABS SHOULD BE REMOVED AFTER THE FINAL STRIPING IS INSTALLED. TABS SHALL BE THE SAME COLOR AS THE FINAL STRIPING AND DUAL TABS SHALL BE USED FOR LINES WIDER THAN FOUR INCHES.

ALL HARDSCAPE IMPROVEMENTS TO BE PLACED ON COMPACTED SELECT FILL OR 12" OVEREXCAVATED, AND TREATED SUBGRADE PER THE SOILS REPORT.

DEMOLITION NOTES:

- LOCATION OF EXISTING UTILITIES IS APPROXIMATE AND BASED ON RECORD DRAWINGS. ACTUAL CONDITIONS MAY VARY. CONTRACTOR SHALL FIELD VERIFY. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION, REMOVAL AND/OR REPLACEMENT OF EXISTING UTILITIES SHOWN ON THE PLANS AND AS-BUILTS.
- EXISTING UNDERGROUND UTILITIES MUST BE PROTECTED IN PLACE UNLESS OTHERWISE SPECIFIED PER PLAN.
- REFER TO PROJECT SPECIFICATIONS FOR DEMOLITION REQUIREMENTS.
- TREES TO BE REMOVED SHALL BE TAGGED BY CONTRACTOR PRIOR TO DEMOLITION. CONTRACTOR SHALL REMOVE TREES ONLY AFTER WRITTEN APPROVAL FROM THE CITY OF CULVER CITY.
- CONTRACTOR SHALL FIELD LOCATE ALL POINTS OF CONNECTION TO IRRIGATION MAINLINE AND CAP AT MAINLINE PRIOR TO EXCAVATION. CONTRACTOR SHALL MAINTAIN IRRIGATION SERVICES TO THE REMAINDER/UNDISTURBED PORTIONS PROJECT. SEE IRRIGATION PLANS FOR TEMPORARY IRRIGATION LINE LAYOUT.
- ANY LIGHT THAT WILL BE PROTECTED IN PLACE SHALL HAVE A MIN 3.5' RADIUS PROTECTED BUFFER AROUND THE PERIMETER OF THE LIGHT FOUNDATION.
- REMOVE SIDEWALK AT NEAREST JOINT AND SAWCUT AT RIGHT ANGLES.
- CONTRACTOR TO FIELD VERIFY UTILITY LINES PRIOR TO EXCAVATION.
- CONTRACTOR TO LOCATE EXISTING IRRIGATION LINES WITHIN THE EXISTING MEDIAN.
- SEE IRRIGATION PLANS FOR PROPOSED IRRIGATION LINE LAYOUT.
- CONTRACTOR SHALL FIELD LOCATE ALL POINTS OF CONNECTION TO SEWER LINES AND PROVIDE A DIVERSION PLAN TO ALL LOW 24" SERVICE DURING CONSTRUCTION. LINE LIMITS ARE OF AS-BUILT RECORDS. CONTRACTOR TO VERIFY EXTENT OF SEWER LINE.
- CONTRACTOR SHALL FIELD LOCATE ALL POINTS OF CONNECTION TO WATER, GAS, AND RECLAIMED WATER LINES. LINES SHALL BE MAINTAINED TO PROVIDE SERVICE THROUGHOUT DURATION OF CONSTRUCTION. LINE LIMITS ARE OF AS-BUILT RECORDS. CONTRACTOR TO VERIFY EXTENT OF WATER, GAS, AND RECLAIMED WATER LINES.
- LIMITS OF AC PAVEMENT REMOVAL ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF AC AREAS THAT MAY BE IMPACTED DURING CONSTRUCTION WHETHER SHOWN OR NOT SHOWN. CONTRACTOR IS RESPONSIBLE FOR RE-STRIPING AND REPLACEMENT OF ANY REFLECTORS, PAVEMENT MARKERS, DETECTION LOOPS, SURVEY MARKERS OR ANY OTHER EXISTING FEATURES REMOVED, DAMAGED OR IMPACTED DURING CONSTRUCTION PER SSPWC SPECIFICATIONS.
- ANY EQUIPMENTS TO BE SALVAGED AND RE-USED SHALL BE STORED IN A SECURED FENCED AREA.
- ALL HARDSCAPE (INCLUDING PARKING LOT, WALKWAYS, AND SIDEWALKS) AND ADJACENT AREAS NOT BEING REMOVED PER DEMOLITION PLANS SHALL BE PROTECTED FROM HEAVY EQUIPMENT TO AVOID CRACKING AND/OR DAMAGING THE AREA. STOCKPILING IN THESE AREAS IS PROHIBITED. THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF ANY DAMAGES TO THESE AREAS.

SHEET INDEX

SHEET NUMBER	SHEET TITLE
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G-02	NOTES, SHEET INDEX AND LEGEND
C-01	TYPICAL STREET SECTIONS
C-02	DEMOLITION PLANS
C-03	DEMOLITION PLANS
C-04	DEMOLITION PLANS
C-05	DEMOLITION PLANS
C-06	SEQUENCE PLANS
C-07	HORIZONTAL CONTROL PLANS 10+00 TO 16+00
C-08	HORIZONTAL CONTROL PLANS 16+00 TO 22+00
C-09	HORIZONTAL CONTROL PLANS 22+00 TO 28+00
C-10	HORIZONTAL CONTROL PLANS 28+00 TO 33+25
C-11	STREET IMPROVEMENT PLAN 10+00 TO 16+00
C-12	STREET IMPROVEMENT PLAN 16+00 TO 22+00
C-13	STREET IMPROVEMENT PLAN 22+00 TO 28+00
C-14	STREET IMPROVEMENT PLAN 28+00 TO 33+25
C-15	STREET IMPROVEMENT PROFILE 10+00 TO 16+00
C-16	STREET IMPROVEMENT PROFILE 16+00 TO 22+00
C-17	STREET IMPROVEMENT PROFILE 22+00 TO 28+00
C-18	STREET IMPROVEMENT PROFILE 28+00 TO 33+25
C-19	STORM DRAIN RELOCATION PLAN
C-20	CONSTRUCTION DETAILS
C-21	CONSTRUCTION DETAILS
C-22	CONSTRUCTION DETAILS
C-23	CONSTRUCTION DETAILS
C-24	SIGNING AND STRIPING PLANS
C-25	SIGNING AND STRIPING PLANS
C-26	SIGNING AND STRIPING PLANS
SL-01	STREET LIGHTING PLANS
SL-02	STREET LIGHTING PLANS
SL-03	STREET LIGHTING PLANS
SL-04	STREET LIGHTING PLANS
TS-01	TRAFFIC SIGNAL PLANS
TS-02	TRAFFIC SIGNAL PLANS
TS-03	TRAFFIC SIGNAL PLANS
IR-01	IRRIGATION LEGEND
IR-02	IRRIGATION PLANS
IR-03	IRRIGATION PLANS
IR-04	IRRIGATION NOTES
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IR-06	IRRIGATION DETAILS
IR-07	IRRIGATION DETAILS

SHEET INDEX

L.O.00	COVER SHEET KEY MAP INDEX
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L.0.02	EXISTING TREE & PROTECTION PLAN
L.0.03	EXISTING TREE & PROTECTION PLAN
L.0.04	EXISTING TREE & PROTECTION PLAN
L.0.05	EXISTING TREE & PROTECTION PLAN
L.0.06	EXISTING TREE & PROTECTION PLAN
L.1.00	LAYOUT LEGEND
L.1.01	LAYOUT PLAN
L.1.02	LAYOUT PLAN
L.1.03	LAYOUT PLAN
L.1.04	LAYOUT PLAN
L.1.05	LAYOUT ENLARGEMENT PLAN
L.1.06	LAYOUT ENLARGEMENT PLAN
L.1.07	LAYOUT ENLARGEMENT PLAN
L.1.08	LAYOUT ENLARGEMENT PLAN
L.2.00	GRADING LEGEND
L.2.01	GRADING AND DRAINAGE PLAN
L.2.02	GRADING AND DRAINAGE PLAN
L.2.03	GRADING AND DRAINAGE PLAN
L.2.04	GRADING AND DRAINAGE PLAN
L.3.00	PAVING LEGEND
L.3.01	PAVING PLAN
L.3.02	PAVING PLAN
L.3.03	PAVING PLAN
L.3.04	PAVING PLAN
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L.4.00	PLANTING LEGEND
L.4.01	PLANTING PLAN
L.4.02	PLANTING PLAN
L.4.03	PLANTING PLAN
L.4.04	PLANTING PLAN
L.5.01	SITE SECTIONS
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L.6.04	WALL AND STAIR DETAILS
L.6.05	WALL AND STAIR DETAILS
L.6.06	WALL AND STAIR DETAILS
L.6.07	AMENITY DETAILS
L.7.01	PLANTING DETAILS

STRIPING AND SIGNING CONSTRUCTION NOTES

- INSTALL WHITE PAVEMENT MARKING ARROW PER CALTRANS STD. PLAN A24A TYPE IV.
- INSTALL 8" WHITE CHANNELIZING LINE PER CALTRANS REVISED STD. PLAN A20D DETAIL 38.
- INSTALL RED CURB.
- INSTALL 4" WHITE LANE LINE PER CALTRANS REVISED STD. PLAN A20A DETAIL 9. DRAW IT AS 7' STRIPE, 17" GAP.
- INSTALL CONTINENTAL CROSSWALKS PAVEMENT MARKINGS ALIGN PARALLEL TO STRIPING. CENTER THE BARS IN THE MIDDLE OF EACH LANE AND ALONG THE EXTENSION OF EACH STRIPE. WHERE THERE ARE NO LANE LINES SPACE 5' ON CENTER (12" WIDTH WITH 2" WIDE BARS) PER CALTRANS STD. PLAN A24F.
- INSTALL 12" WHITE LIMIT LINE PER CALTRANS REVISED STD. PLAN A24E, 5' BEHIND MARKED CROSSWALK, IF ANY.
- INSTALL MEDIAN ISLAND EDGE STRIPING PER CALTRANS REVISED STD. PLAN A20B DETAIL 25A, 1" OFF CURB FACE.
- WET SAND BLAST EXISTING LANE ARROW/STRIPING.
- PLACE SIGN & POST (CALTRANS SIGN DESIGNATION AS INDICATED).
- INSTALL NO PASSING ZONES - TWO DIRECTION PER CALTRANS REVISED STD. PLAN A20B, DETAIL 29.
- INSTALL TWO-WAY LEFT TURN LANES PER CALTRANS REVISED STD. PLAN A20B, DETAIL 32.
- INSTALL 4" YELLOW CENTERLINE PER CAMUCTD FIGURE 9C-2 (3' STRIPE, 9" GAP).
- INSTALL WHITE PAVEMENT MARKING BIKE LANE ARROW PER CALTRANS STD. PLAN A24A.
- INSTALL WHITE PAVEMENT MARKING BIKE LANE SYMBOL WITH PERSON PER CALTRANS STD. PLAN A24C.
- INSTALL PEDESTRIAN BARRICADES PER CALTRANS STD. PLAN ES-7Q, TYPE I DETAIL C. INSTALL 2 - R9-3, R9-3BP (L/R).
- INSTALL CHEVRONS, 1' WIDE, 24" SPACING.
- INSTALL RIGHT EDGELINE PER CALTRANS STD. PLAN A-20B, DETAIL 27B.
- REPAINT OR INSTALL BUS ZONE RED CURB.
- INSTALL ADVANCE LANE DROP MARKING PER CALTRANS STD. PLAN A20C, DETAIL 37B.
- INSTALL LANE LINE EXTENSIONS THROUGH INTERSECTIONS PER CALTRANS STD. PLAN A20D, DETAIL 40. DRAW IT AS 1" STRIPE, 6" GAP.
- RELOCATE BUS STOP SIGN PER STREET IMPROVEMENT PLANS

DEMOLITION NOTES

- REMOVE EX MEDIAN INCLUDING CURBS, AC PAVEMENT, PEDESTRIAN PATH AND OTHER EX IMPROVEMENTS AS DIRECTED BY THE ENGINEER.
- CURB RAMP
- IRRIGATION WATER VALVE/METER
- UTILITY BOX
- TRAFFIC POLE AND APPURTENANCES
- TREE/ SHRUBBERY
- LIGHTPOLE AND APPURTENANCES
- STORM DRAIN CATCH BASIN
- TRAFFIC/PARKING SIGN
- MANHOLE
- UTILITY (POSITIVELY IDENTIFY)
- SIDEWALK
- ASPHALT CONCRETE PAVEMENT.
- PORTLAND CEMENT CONCRETE PAVEMENT.
- TURF.
- DIRT PATH.
- WALL/FENCE.
- DRIVEWAY APRONS.
- CROSS GUTTER AND SPANDRELS.
- CURB AND GUTTER.
- BUS STOP SHELTER/FURNITURE/SIGNS

CONSTRUCTION NOTES

- CONSTRUCT 2" ARHM WEARING COURSE OVER 4.5" AC BASE COURSE OVER 16" CMB PAVEMENT OVER 12" TREATED SUBGRADE @ 95% COMPACTION.
- CONSTRUCT 3250 PSI PCC PAVEMENT, 8" DEEP WITH #3 REBAR @ 18" O.C. E.W. OVER 12" CMB OVER 12" TREATED SUBGRADE @ 95% COMPACTION.
- CONSTRUCT 4" A.C. PAVEMENT OVER 6" CMB OVER SELECT FILL @ 95% RELATIVE COMPACTION. (BIKE PATH)
- CONSTRUCT 4" DG OVER 6" CMB OVER SELECT FILL @ 95% RELATIVE COMPACTION. (PED PATH)
- CONSTRUCT 8" TYPE A1-8 CURB PER SPPWC STD. 120-2, OVER 12" TREATED SUBGRADE.
- CONSTRUCT 8" TYPE A2-8 CURB AND GUTTER PER SPPWC STD. 120-2, OVER 12" TREATED SUBGRADE.
- CONSTRUCT CURB OPENING CATCH BASIN PER CULVER BOULEVARD FILTRATION AND RETENTION PROJECT (PR-002).
- CONSTRUCT 4" PCC SIDEWALK WITH #3 REBAR @ 18" O.C. E.W. OVER 12" TREATED SUBGRADE PER SPPWC STD. 113-2.
- CONSTRUCT ACCESS RAMP WITH TERRACOTA 3'X4" TRUNCATED DOMES PER MODIFIED SPPWC STD. PLAN 111-5, TYPE, CASE, AND DETAIL PER PLAN. SEE CONSTRUCTION DETAILS SHEETS C-20 TO C-23.
- CONSTRUCT 8" TYPE A2-8 C&G OVER 12" TREATED SUBGRADE PER SPPWC STD. 120-2, W=12".
- CONSTRUCT CONCRETE CURB TRANSITION OVER 12" TREATED SUBGRADE PER DETAIL HEREON.
- CONSTRUCT MEDIAN TAPER OVER 12" TREATED SUBGRADE PER SPPWC STD. 140-3.
- CONSTRUCT MEDIAN FLARE OVER 12" TREATED SUBGRADE PER SPPWC STD. 141-2.
- CONSTRUCT 12" WIDE CONCRETE MOW STRIP OVER 12" TREATED SUBGRADE.
- ADJUST MANHOLE TO MATCH FINISHED SURFACE.
- CONSTRUCT 8" TYPE A3-8 C&G OVER 12" TREATED SUBGRADE PER SPPWC STD. 120-2, W=12".
- ADJUST ELEC. EQUIPMENT TO MATCH FINISHED GRADE.
- CONSTRUCT 6" TYPE A2-6 C&G OVER 12" TREATED SUBGRADE PER SPPWC STD. PLAN 120-2.
- CONSTRUCT ROLLED CURB PER DETAIL HEREON.
- CONSTRUCT CONCRETE PAVERS OVER 12" TREATED SUBGRADE. FINISH PER LANDSCAPE PLANS.
- FURNISH AND INSTALL TERRACOTA 3'X4" TRUNCATED DOMES PER SPPWC STD. PLAN 111-5.
- COLD MILL EXISTING A.C. PAVEMENT TO 2" BELOW PROPOSED ROADWAY FINISH SURFACE.
- ADJUST EXISTING UTILITY BOX TO GRADE.
- REINSTALL BUS STOP ENCLOSURE, SIGN POST, AND FURNITURE PER CITY OF CULVER BUS STOP STANDARDS.
- CONSTRUCT 3250 PSI 8 1/2" PCC WITH #3 REBAR @ 18" O.C. E.W. OVER 8" CMB OVER 12" TREATED SUBGRADE @ 95% COMPACTION.
- ROOT BARRIER SEE LA PLANS SHEETS L5.01 - L5.03.
- CONSTRUCT PARKWAY DRAIN OVER 12" TREATED SUBGRADE PER SPPWC STD. PLAN 151-2, S=24".
- CONSTRUCT RECTANGULAR FRAME AND COVER PER SPPWC STD. PLAN 152-2.
- CONSTRUCT 6" TYPE A1-6 CURB OVER 12" TREATED SUBGRADE PER SPPWC STD. 120-2.
- CONSTRUCT 18" FULL DEPTH AC SLOT PAVE OVER 12" TREATED SUBGRADE @ 95% COMPACTION.
- APPLY TYPE II SLURRY

ABBREVIATIONS

AC.....	ASPHALT CONCRETE	PG.....	PROPOSED GRADE
BC.....	BEGIN CURVE	PL.....	POINT OF INTERSECTION
BCR.....	BEGIN CURB RETURN	PL.....	PROPERTY LINE
BEG.....	BEGIN	PRC.....	POINT OF REVERSE CURVE
BOW.....	BACK OF WALK	PROP.....	PROPOSED
CMB.....	CRUSHED MISCELLANEOUS BASE	RCP.....	REINFORCED CONCRETE PIPE
C&G.....	CURB AND GUTTER	R/C.....	RETAINING CURB
CB.....	CATCH BASIN	RT.....	RIGHT
CF.....	CURB FACE	R/W.....	RIGHT OF WAY
CL.....	CENTERLINE	SD.....	STORM DRAIN
DG.....	DECOMPOSED GRANITE	SL.....	STREET LIGHT
EC.....	END CURVE	S/LY.....	SOUTHERLY
ECR.....	END CURB RETURN	SMH.....	SEWER MANHOLE
ELEC.....	ELECTRIC	SPECS.....	SPECIFICATIONS
ELEV.....	ELEVATION	SPPWC.....	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTIONS
EP.....	EDGE OF PAVEMENT	SOFT.....	SQUARE FOOT
EX.....	EXISTING	STA.....	STATION
FH.....	FIRE HYDRANT	SW.....	SIDEWALK
FL.....	FLOW LINE	TC.....	TOP OF CURB OR TRAFFIC CONTROL
FS.....	FINISH SURFACE	TF.....	TRAFFIC SIGNAL
GB.....	GRADE BREAK	TS.....	TRAFFIC SIGNAL POLE
L.....	LENGTH	TSP.....	TRAFFIC SIGNAL POLE
LF.....	LINEAL FEET	TYP.....	TYPICAL
LOC.....	LENGTH OF CURVE	W.....	WIDTH
LOL.....	LAYOUT LINE	WM.....	WATER METER
LT.....	LEFT	WO.....	WEST OF
MAX.....	MAXIMUM	WV.....	WATER VALVE
MH.....	MANHOLE		
MIN.....	MINIMUM		
N'LY.....	NORTHERLY		
N/O.....	NORTH OF		
NTS.....	NOT TO SCALE		
PB.....	PULLBOX		
PCC.....	PORTLAND CEMENT CONCRETE		

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

NOTES AND LEGEND
REVIEWED BY AND APPROVED BY
SEE TITLE SHEET
SHEET G-02
SHEET 2 OF 85 SHEETS

6/6/2019 5:25:00 PM - I:\LOCAL\PROJECTS\IRVINE\154197\200-154197-18001\CAD\SHEETFILES\G-02\LEGEND NOTES.DWG - MCCOLLUM, AUSTIN

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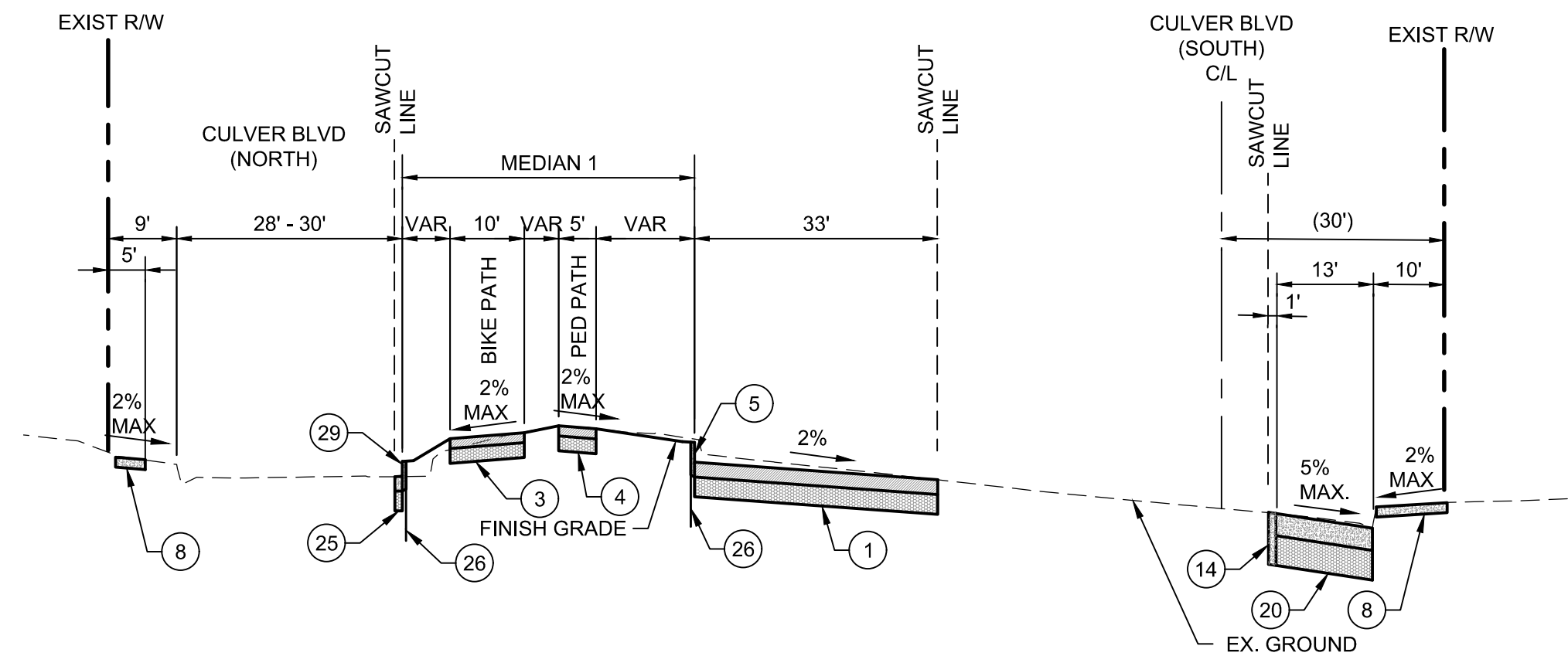
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Irvine, CA 92614
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REGISTERED PROFESSIONAL ENGINEER
No. 70879
Exp. 6-30-19
CIVIL
STATE OF CALIFORNIA

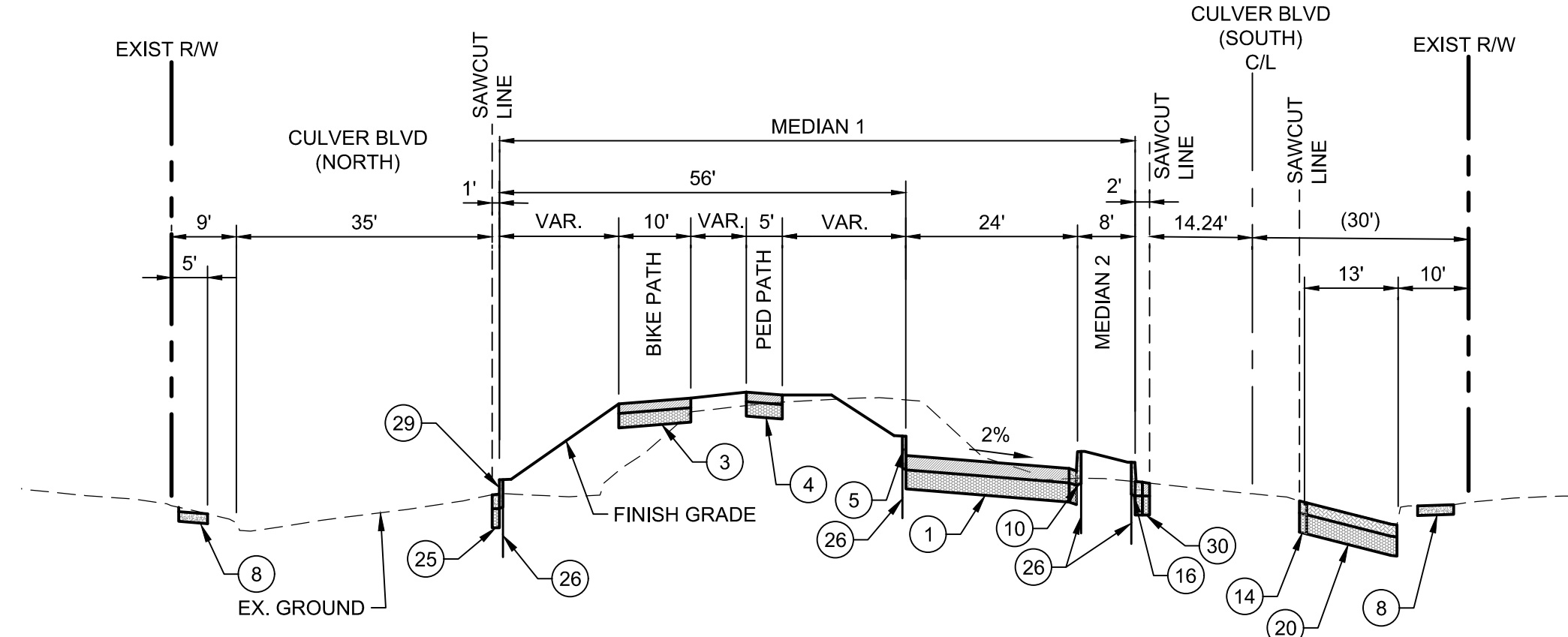
PLANS PREPARED UNDER THE SUPERVISION OF:
05/20/2019
JASON FUSSELL RCE 70879 EXP. 06/30/19 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

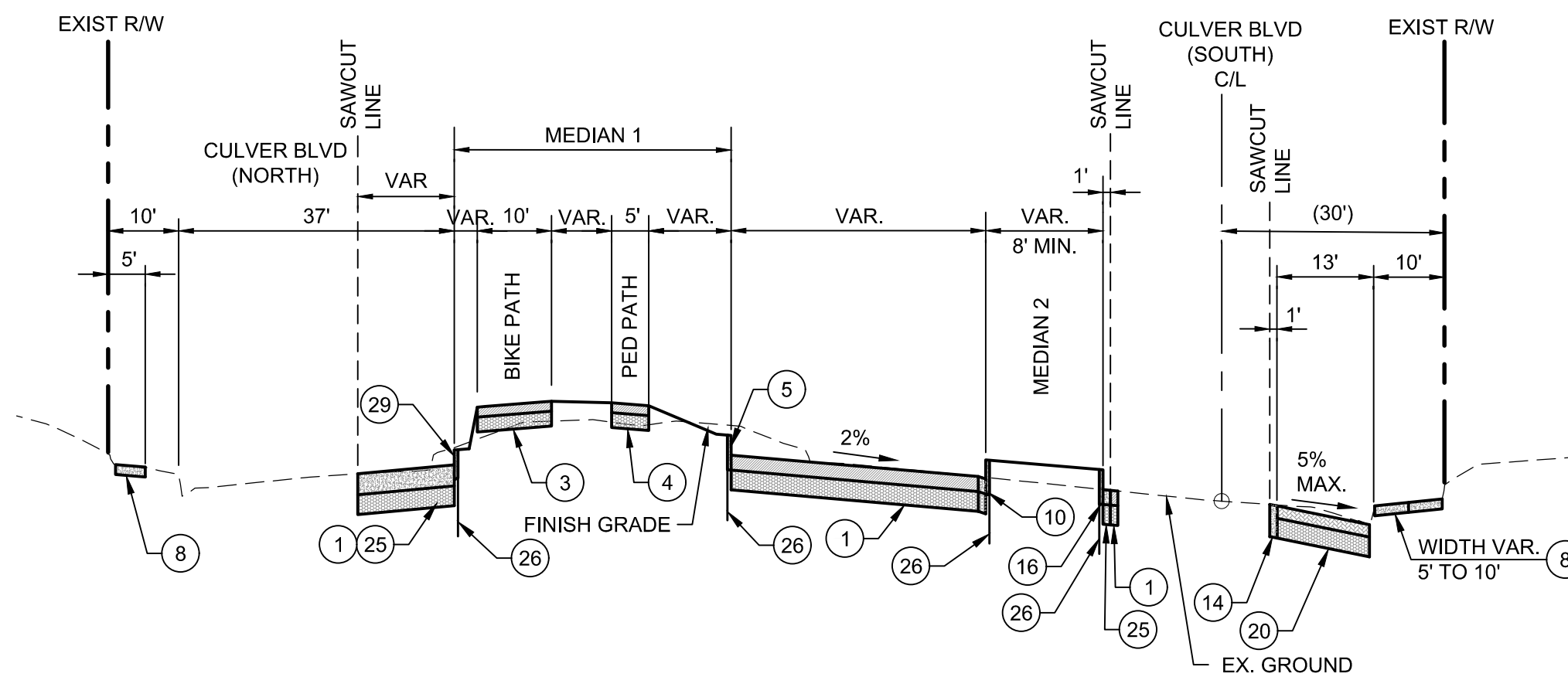
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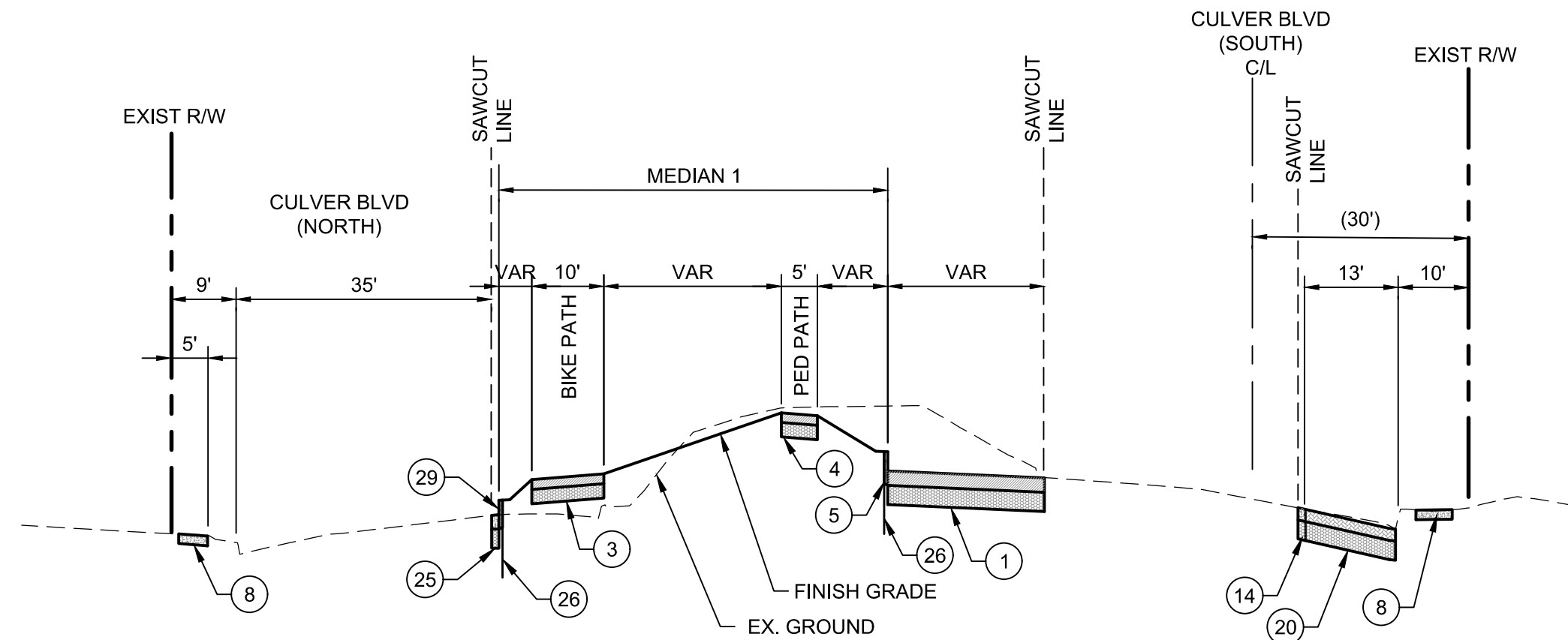
A TYPICAL SECTION
AT STA 10+71 TO 12+31
SCALE: 1" = 20'



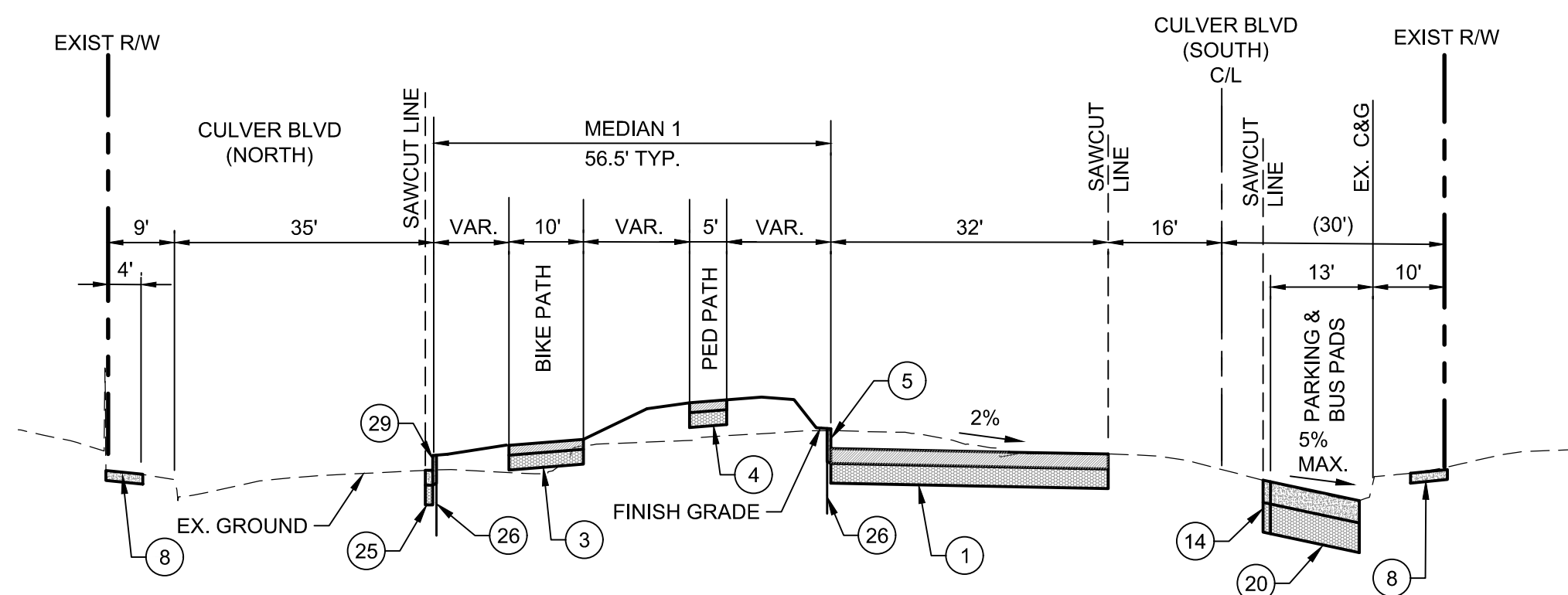
D TYPICAL SECTION
AT STA 21+23 TO 25+65
SCALE: 1" = 20'



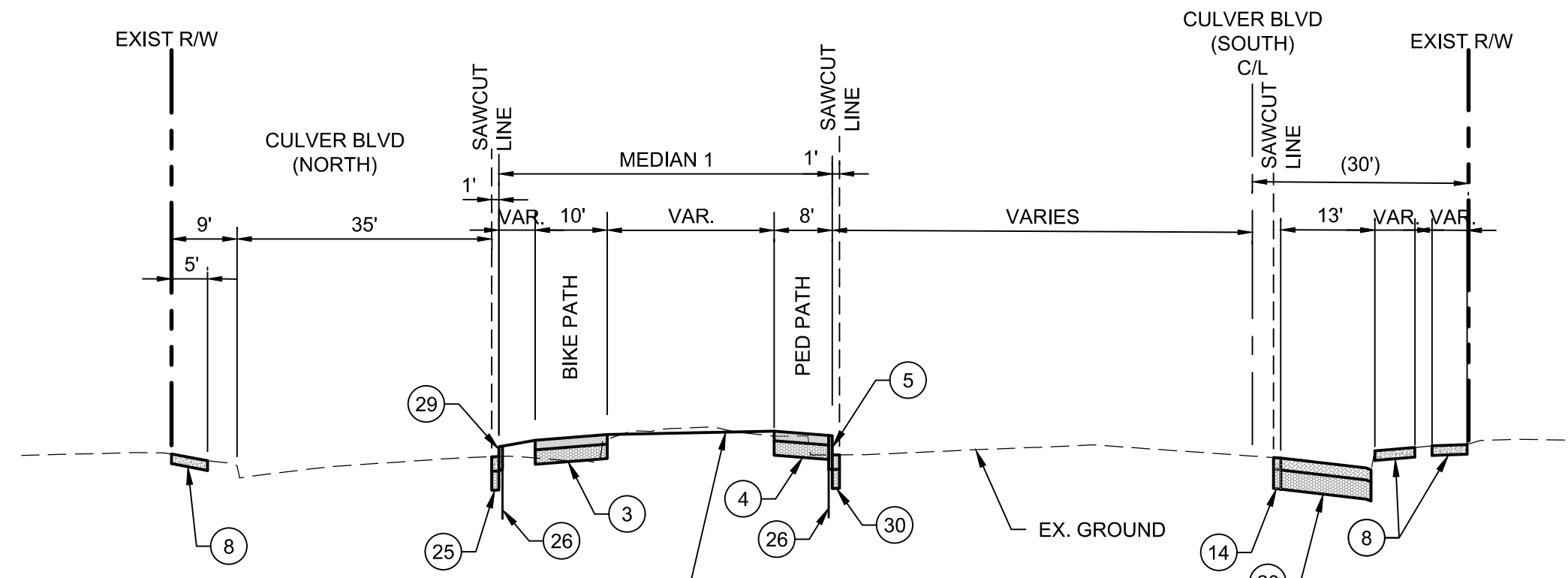
B TYPICAL SECTION
AT STA 12+31 TO 19+45
SCALE: 1" = 20'



E TYPICAL SECTION
AT STA 25+65 TO 30+80
SCALE: 1" = 20'



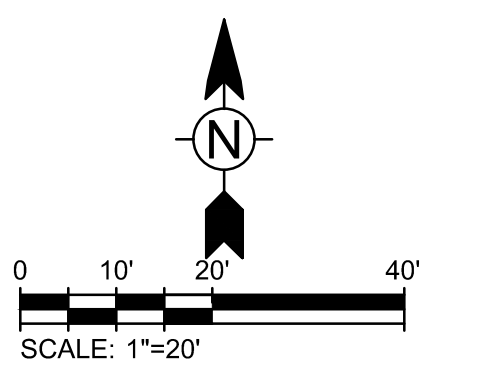
C TYPICAL SECTION
AT STA 19+45 TO 21+23
SCALE: 1" = 20'



F TYPICAL SECTION
AT STA 30+80 TO 32+40
SCALE: 1" = 20'

CONSTRUCTION NOTES

- 1 CONSTRUCT 2" ARHM WEARING COURSE OVER 4.5" AC BASE COURSE OVER 16" CMB PAVEMENT OVER 12" TREATED SUBGRADE @ 95% COMPACTION.
- 2 CONSTRUCT 3250 PSI PCC PAVEMENT, 8" DEEP WITH #3 REBAR @ 18" O.C. E.W. OVER 12" CMB OVER 12" TREATED SUBGRADE @ 95% COMPACTION.
- 3 CONSTRUCT 4" A.C. PAVEMENT OVER 6" CMB OVER SELECT FILL @ 95% RELATIVE COMPACTION. (BIKE PATH)
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- 6 CONSTRUCT 4" PCC SIDEWALK WITH #3 REBAR @ 18" O.C. E.W. OVER 12" TREATED SUBGRADE PER SPPWC STD. 113-2.
- 10 CONSTRUCT 8" TYPE A2-8 C&G OVER 12" TREATED SUBGRADE PER SPPWC STD. 120-2, W=12".
- 14 CONSTRUCT 12" WIDE CONCRETE MOW STRIP OVER 12" TREATED SUBGRADE.
- 16 CONSTRUCT 4" TYPE A3-8 C&G OVER 12" TREATED SUBGRADE PER SPPWC STD. 120-2, W=12".
- 20 CONSTRUCT CONCRETE PAVERS OVER 12" TREATED SUBGRADE, FINISH PER LANDSCAPE PLANS.
- 25 CONSTRUCT 3250 PSI 8 1/2" PCC WITH #3 REBAR @ 18" O.C. E.W. OVER 8" CMB OVER 12" TREATED SUBGRADE @ 95% COMPACTION.
- 26 ROOT BARRIER SEE LA PLANS SHEETS L5.01 - L5.03.
- 29 CONSTRUCT 6" TYPE A1-6 CURB OVER 12" TREATED SUBGRADE PER SPPWC STD. 120-2.
- 30 CONSTRUCT 18" FULL DEPTH AC SLOT PAVE OVER 12" TREATED SUBGRADE @ 95% COMPACTION.



6/5/2019 8:13:59 AM - C:\PROJECTS\IRVINE\154197\200-154197-1800\1\CAD\SHETS\C-01-TYPICAL STREET SECTIONS.DWG - MCCOLLUM, AUSTIN

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REGISTERED PROFESSIONAL ENGINEER
No. 70879
Exp. 6-30-19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Jason Fusssel 05/20/2019
DATE
JASON FUSSEL RCE 70879 EXP. 06/30/19
PROJECT NUMBER # PZ-460
DRAWING NO.

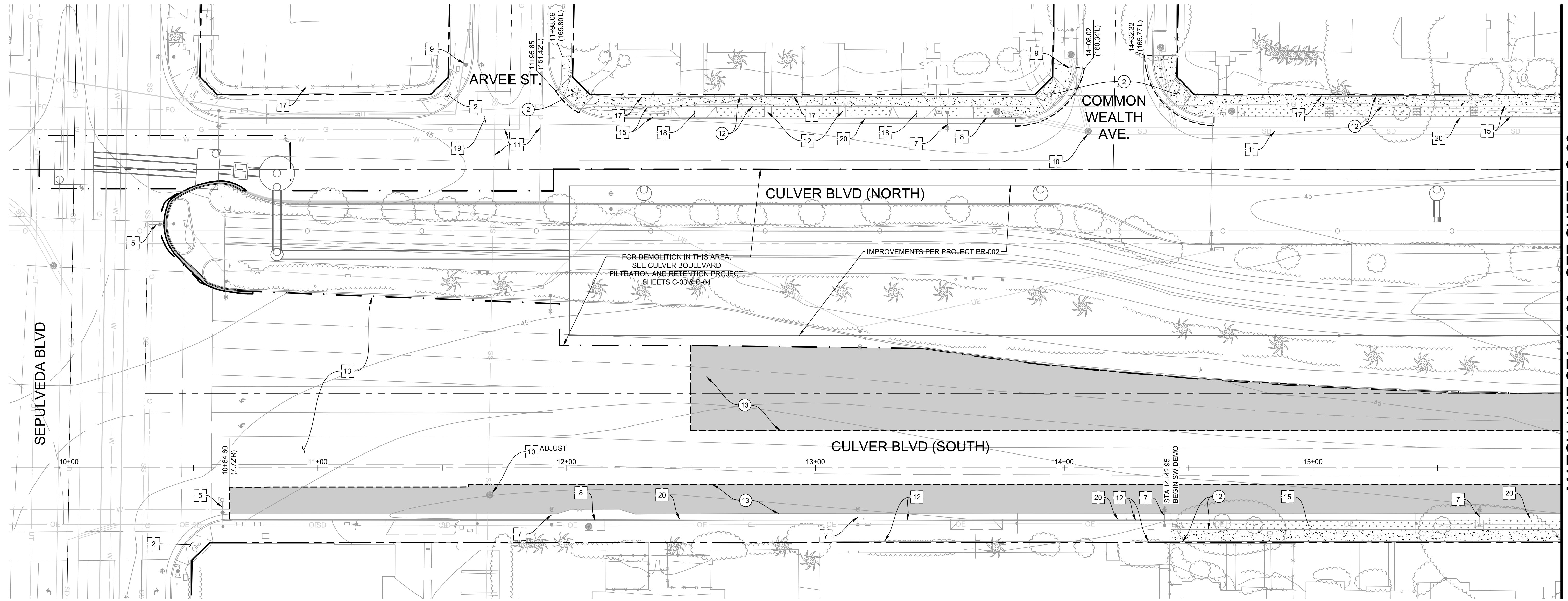
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CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

TYPICAL STREET SECTIONS
REVIEWED BY AND APPROVED BY
SEE TITLE SHEET
SHEET C-01
SHEET 3 OF 85 SHEETS

5049-212

Bar Measures 1 inch



MATCH LINE STA 16+00 - SEE SHEET C-03

DEMOLITION NOTES:

1. LOCATION OF EXISTING UTILITIES IS APPROXIMATE AND BASED ON RECORD DRAWINGS. ACTUAL CONDITIONS MAY VARY. CONTRACTOR SHALL FIELD VERIFY. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION, REMOVAL AND/OR REPLACEMENT OF EXISTING UTILITIES SHOWN ON THE PLANS AND AS-BUILTS.
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3. REFER TO PROJECT SPECIFICATIONS FOR DEMOLITION REQUIREMENTS.
4. TREES TO BE REMOVED SHALL BE TAGGED BY CONTRACTOR PRIOR TO DEMOLITION. CONTRACTOR SHALL REMOVE TREES ONLY AFTER WRITTEN APPROVAL FROM THE CITY OF CULVER CITY.
5. CONTRACTOR SHALL FIELD LOCATE ALL POINTS OF CONNECTION TO IRRIGATION MAINLINE AND CAP AT MAINLINE PRIOR TO EXCAVATION. CONTRACTOR SHALL MAINTAIN IRRIGATION SERVICES TO THE REMAINDER/UNDISTURBED PORTIONS PROJECT. SEE IRRIGATION PLANS FOR TEMPORARY IRRIGATION LINE LAYOUT.
6. ANY LIGHT THAT WILL BE PROTECTED IN PLACE SHALL HAVE A MIN 3.5' RADIUS PROTECTED BUFFER AROUND THE PERIMETER OF THE LIGHT FOUNDATION.
7. REMOVE SIDEWALK AT NEAREST JOINT AND SAWCUT AT RIGHT ANGLES.
8. CONTRACTOR TO FIELD VERIFY UTILITY LINES PRIOR TO EXCAVATION.
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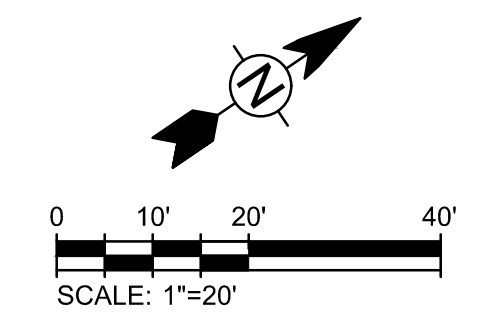
DEMOLITION NOTES:

- XX PROTECT IN PLACE
- XX REMOVE
- XX RELOCATE

LEGEND:

- [Pattern] EXISTING AC PAVEMENT TO BE REMOVED
- [Pattern] EXISTING CONCRETE TO BE REMOVED (SEE NOTE 7)
- EX. RW
- SAWCUT
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- 20 CURB AND GUTTER.

FOR LANDSCAPE, LIGHTING, ELECTRICAL AND IRRIGATION DEMOLITION REFER TO THE APPLICABLE PLAN SHEETS.



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REGISTERED PROFESSIONAL ENGINEER
No. 70879
Exp. 6-30-19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
05/20/2019
DATE
JASON FUSSELL RCE-70879 EXP. 06/30/19
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DEMOLITION PLANS

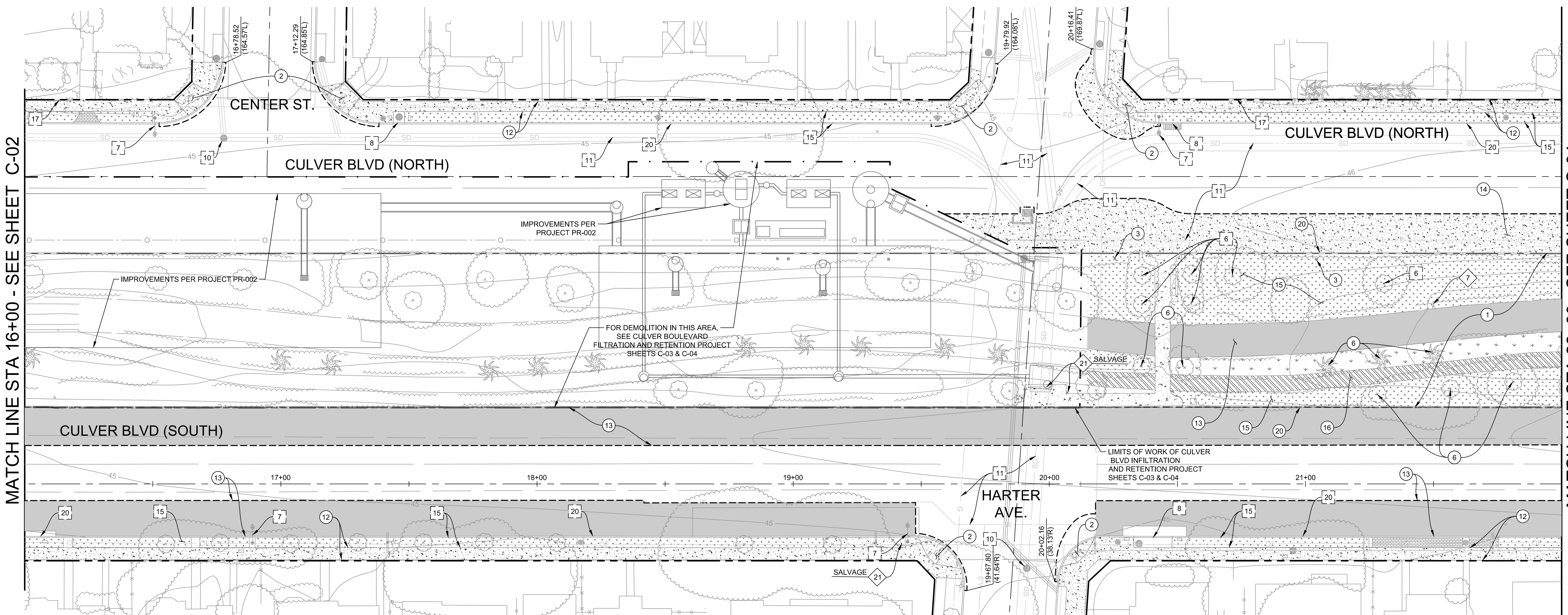
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SHEET
C-02
SHEET 4 OF 85 SHEETS

5049-212

Bar Measures 1 inch

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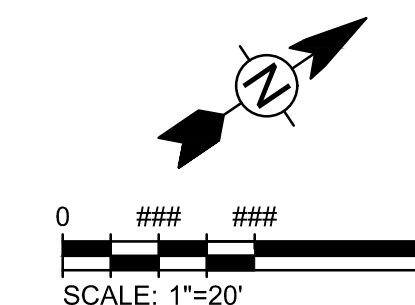
DEMOLITION NOTES:

- XX PROTECT IN PLACE XX REMOVE
- XX RELOCATE

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REGISTERED PROFESSIONAL ENGINEER
No. 70879
Exp. 6-30-19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
05/20/2019
DATE
JASON FUSSELL RCE 70879 EXP. 06/30/19
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DEMOLITION PLANS

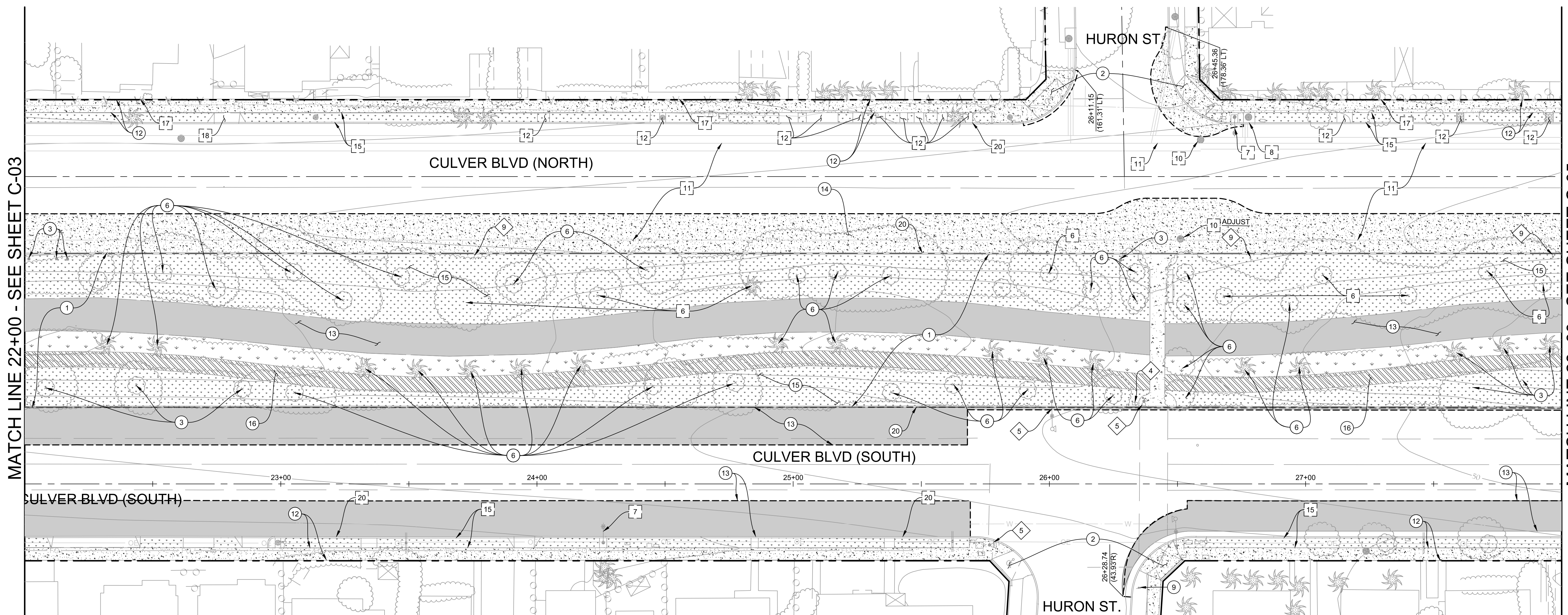
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SHEET
C-03
SHEET 5 OF 85 SHEETS

5049-212

Bar Measures 1 inch

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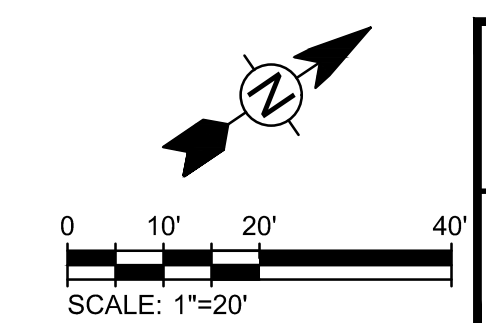
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CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DEMOLITION PLANS

REVIEWED BY AND APPROVED BY
SEE TITLE SHEET

SHEET
C-04
SHEET 6 OF 85 SHEETS

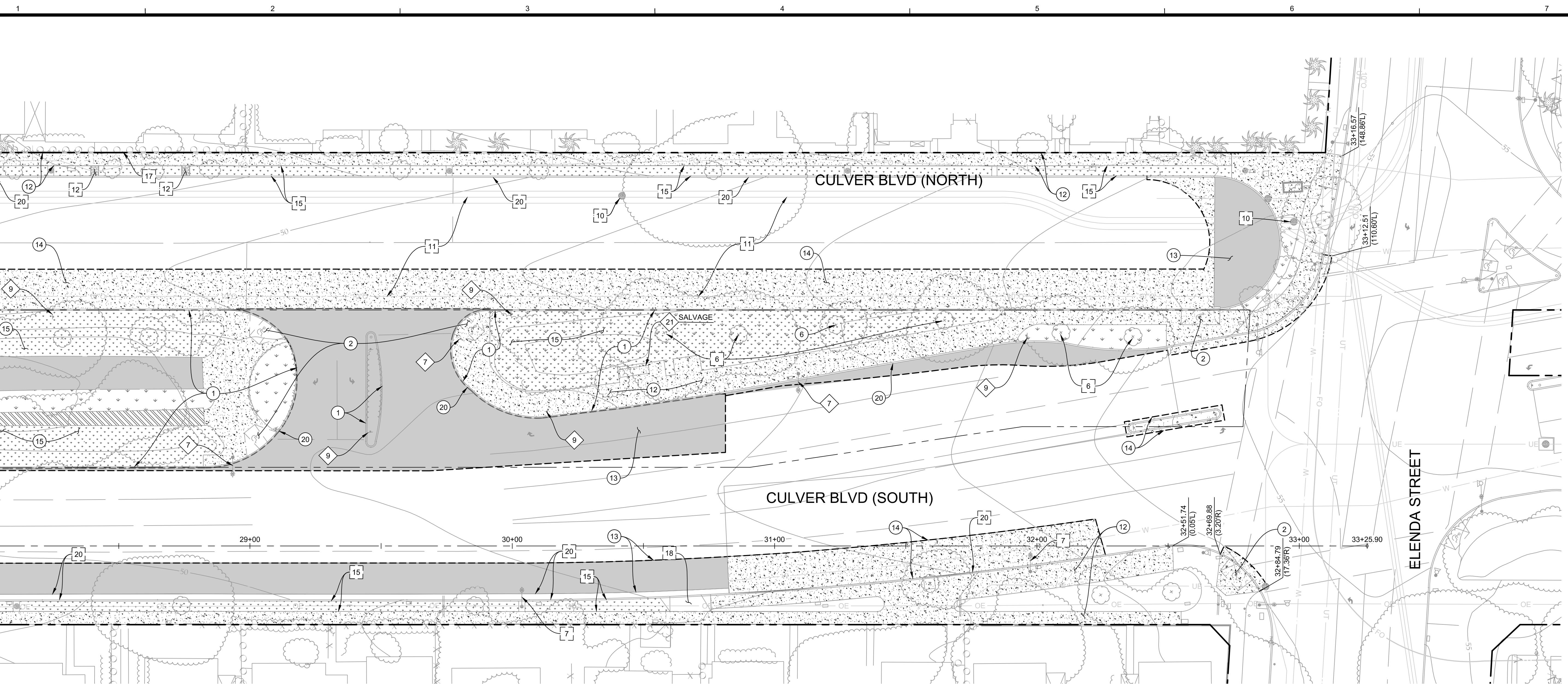


PLANS PREPARED UNDER THE SUPERVISION OF:
05/20/2019
DATE
JASON FUSSEL RCE 70879 EXP. 06/30/19
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

5049-212

Bar Measures 1 inch



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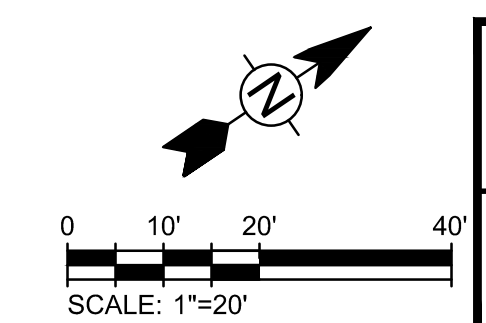
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- XX PROTECT IN PLACE
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CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

DEMOLITION PLANS

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SEE TITLE SHEET

SHEET
C-05
SHEET 7 OF 85 SHEETS

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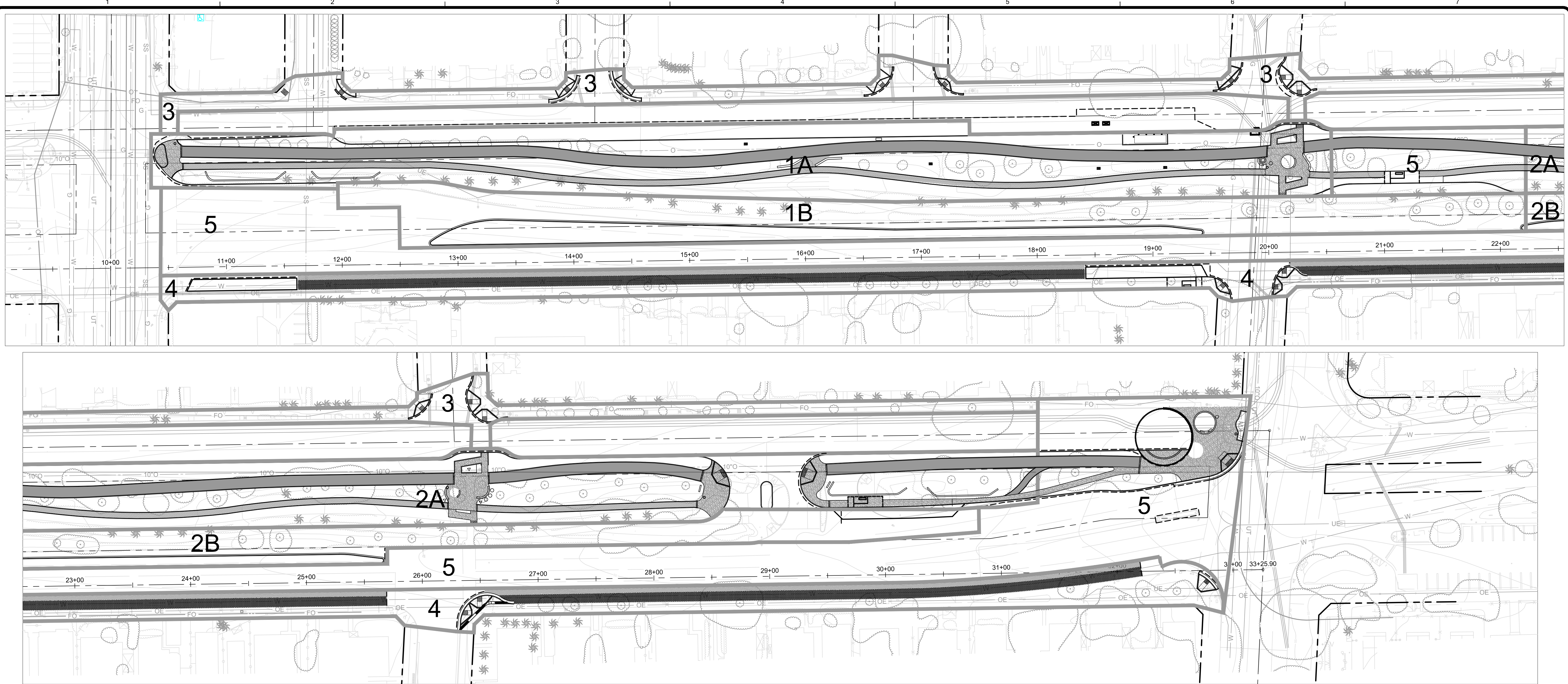
PLANS PREPARED UNDER THE SUPERVISION OF:
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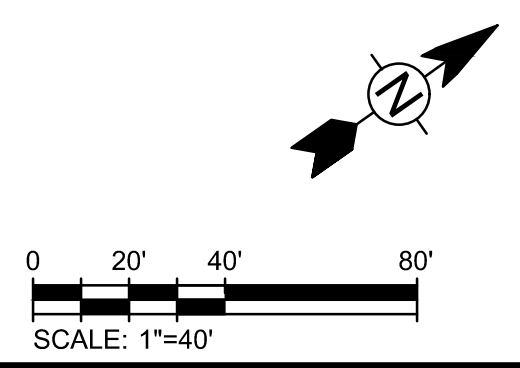
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Bar Measures 1 inch

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X INDICATES PHASE NUMBER



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ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

CONSTRUCTION
SEQUENCE PLANS

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SHEET
C-06
SHEET 8 OF 85 SHEETS



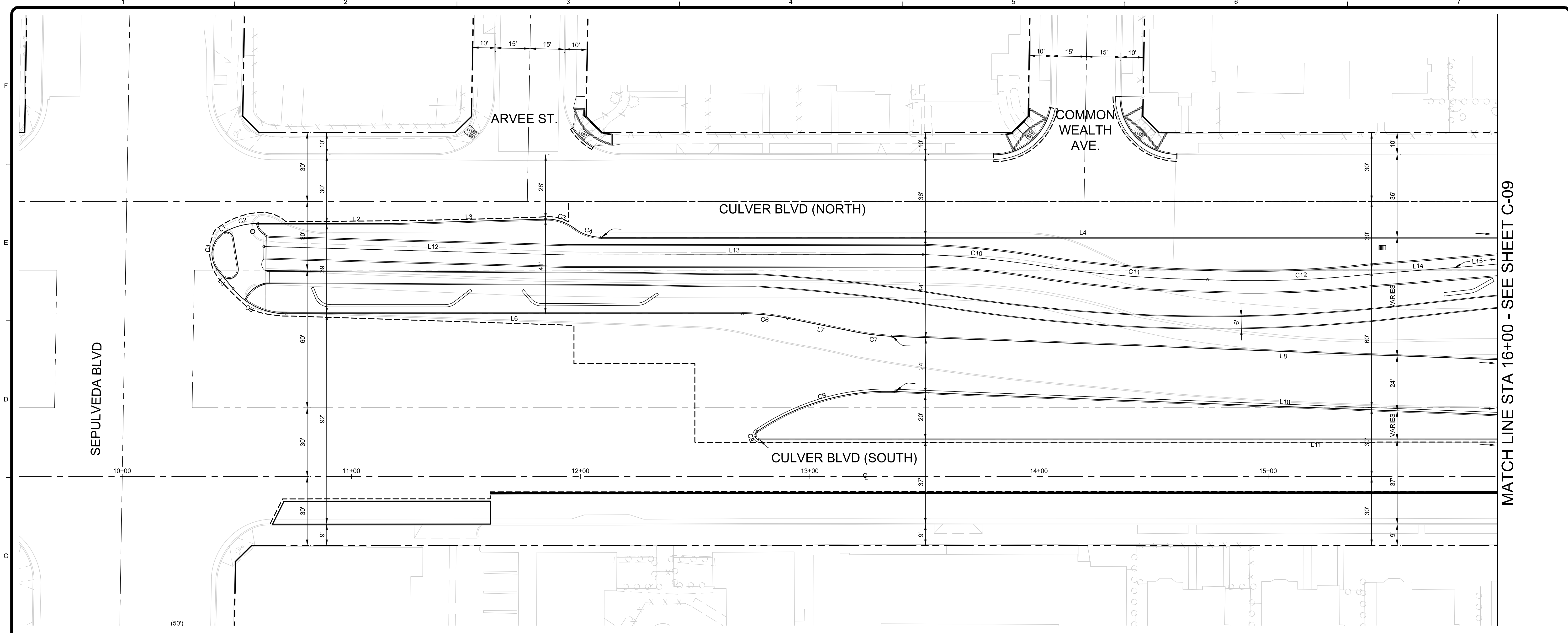
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MATCH LINE STA 16+00 - SEE SHEET C-09

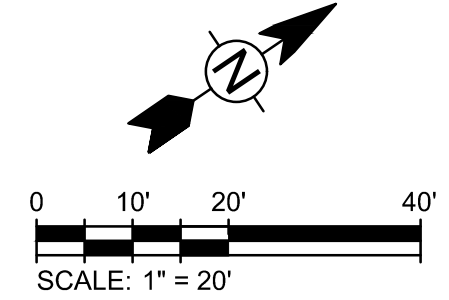
LINE #	LENGTH	BEARING
L1	1.89'	N 3°30'02" E
L2	58.85'	N 34°12'39" E
L3	66.71'	N 32°34'33" E
L4	783.97'	N 34°12'39" E
L5	10.58'	S 84°45'15" W
L6	199.06'	S 34°13'02" W
L7	30.43'	S 45°34'38" W
L8	341.85'	S 36°25'27" W
L10	339.98'	S 36°25'15" W
L11	663.24'	N 34°13'02" E

LINE #	LENGTH	BEARING
L12	132.39'	N 35°48'19" E
L13	155.37'	N 34°09'41" E
L14	37.05'	N 29°44'37" E
L15	25.11'	N 29°33'00" E

CURVE #	LENGTH	RADIUS	DELTA
C1	18.04'	11.00'	93°57'56"
C2	14.29'	30.00'	27°17'06"
C3	13.37'	20.00'	38°17'37"
C4	12.80'	20.00'	36°39'30"
C5	26.46'	30.00'	50°32'13"
C6	19.83'	100.00'	11°21'37"
C7	15.98'	100.00'	9°09'11"
C8	5.08'	2.00'	145°34'19"
C9	63.93'	100.00'	36°37'55"
C10	56.54'	407.34'	7°57'11"

CURVE #	LENGTH	RADIUS	DELTA
C11	68.07'	557.02'	7°00'05"
C12	71.06'	464.76'	8°45'39"

NOTES:
FOR CURB RETURN LINE AND CURVE DATA, PLEASE SEE SHEETS C-20 THRU C-23.

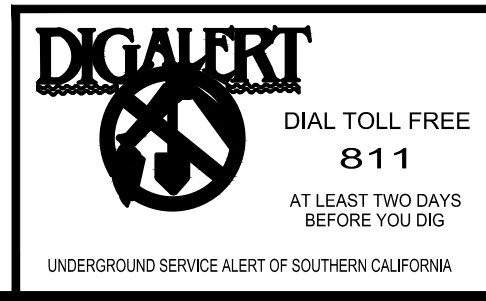


CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

HORIZONTAL CONTROL PLANS
FROM STA 10+00 TO STA 16+00

REVIEWED BY AND APPROVED BY
SEE TITLE SHEET

SHEET
C-07
SHEET 9 OF 85 SHEETS



PLANS PREPARED UNDER THE SUPERVISION OF:
Jason Fusssel 05/20/2019
JASON FUSSEL RCE 70879 EXP. 06/30/19 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

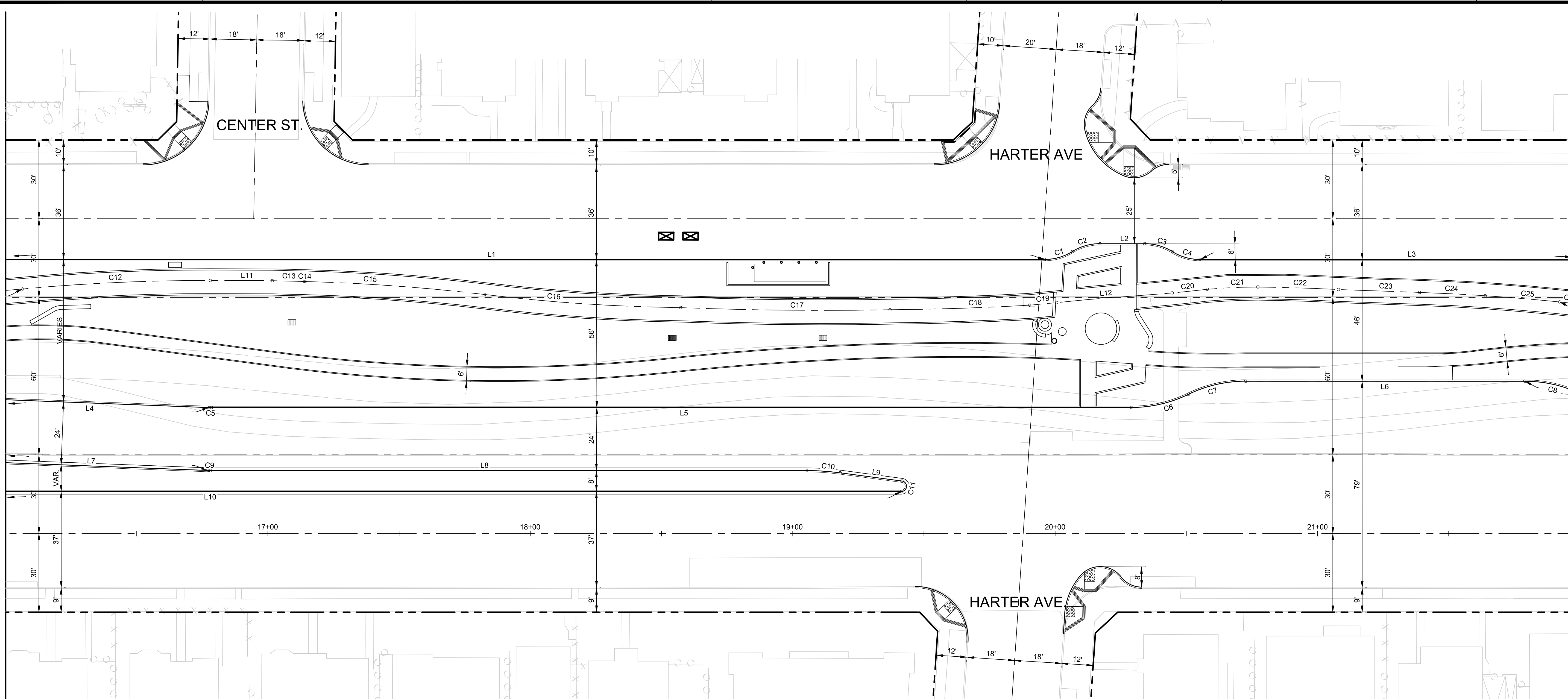
5049-212

Bar Measures 1 inch

6/5/2019 8:25:21 AM - C:\PROJECTS\IRVINE\154197\200-154197-1800\1\CAD\SHETS\C-08-HORIZONTAL CONTROL PLANS 16+00 TO 22+00.DWG - MCCOLLUM, AUSTIN

MATCH LINE STA 16+00 - SEE SHEET C-07

MATCH LINE STA 22+00 - SEE SHEET C-09



Line Table		
LINE #	LENGTH	BEARING
L1	786.90'	N 34°12'39" E
L2	17.03'	N 34°12'39" E
L3	559.34'	N 34°12'39" E
L4	341.85'	S 36°25'27" W
L5	350.46'	S 34°12'39" W
L6	106.42'	S 34°12'39" W
L7	337.39'	S 36°25'15" W
L8	227.36'	S 34°13'02" W
L9	23.76'	S 41°48'52" W
L10	709.12'	N 34°13'02" E

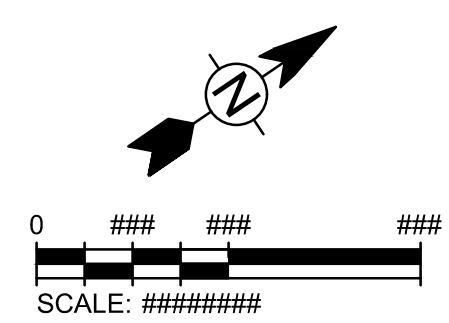
Line Table		
LINE #	LENGTH	BEARING
L11	23.61'	N 34°23'33" E
L12	32.45'	N 29°45'57" E

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C1	11.10'	20.00'	31°47'15"
C2	11.10'	20.00'	31°47'15"
C3	11.10'	20.00'	31°47'15"
C4	11.10'	20.00'	31°47'15"
C5	0.97'	25.00'	2°12'48"
C6	22.55'	50.00'	25°50'31"
C7	22.55'	50.00'	25°50'31"
C8	22.55'	50.00'	25°50'31"
C9	0.96'	25.00'	2°12'14"
C10	12.68'	100.00'	7°16'01"

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C11	6.02'	2.00'	172°24'19"
C12	71.70'	740.47'	5°32'52"
C13	12.11'	2996.26'	0°13'54"
C14	0.38'	152.06'	0°08'35"
C15	68.78'	749.89'	5°15'18"
C16	74.82'	686.86'	6°14'28"
C17	79.80'	1376.79'	3°19'15"
C18	53.20'	1073.34'	2°50'24"
C19	10.33'	992.95'	0°35'46"
C20	13.44'	599.47'	1°17'05"

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C21	19.31'	256.09'	4°19'12"
C22	30.72'	807.45'	2°10'47"
C23	30.97'	21731.45'	0°04'54"
C24	25.02'	762.72'	1°52'46"
C25	28.48'	845.26'	1°55'50"
C26	32.18'	2710.00'	0°40'49"

NOTES:
FOR CURB RETURN LINE AND CURVE DATA, PLEASE SEE SHEETS C-20 THRU C-23.

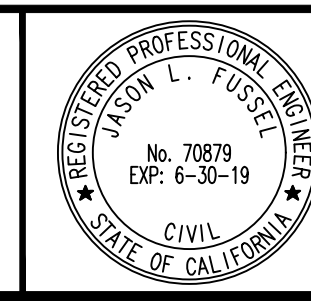
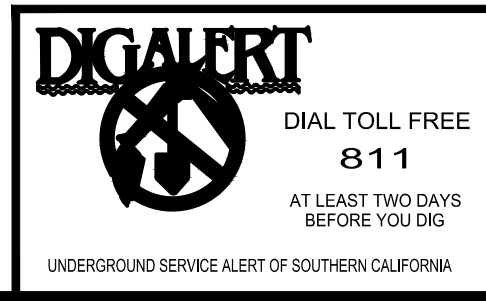


CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

HORIZONTAL CONTROL PLANS
FROM STA 16+00 TO STA 22+00

REVIEWED BY AND APPROVED BY
SEE TITLE SHEET

SHEET
C-08
SHEET 100F 85 SHEETS



PLANS PREPARED UNDER THE SUPERVISION OF:
DATE: 05/20/2019
JASON FUSSEL RCE 70879 EXP. 06/30/19
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

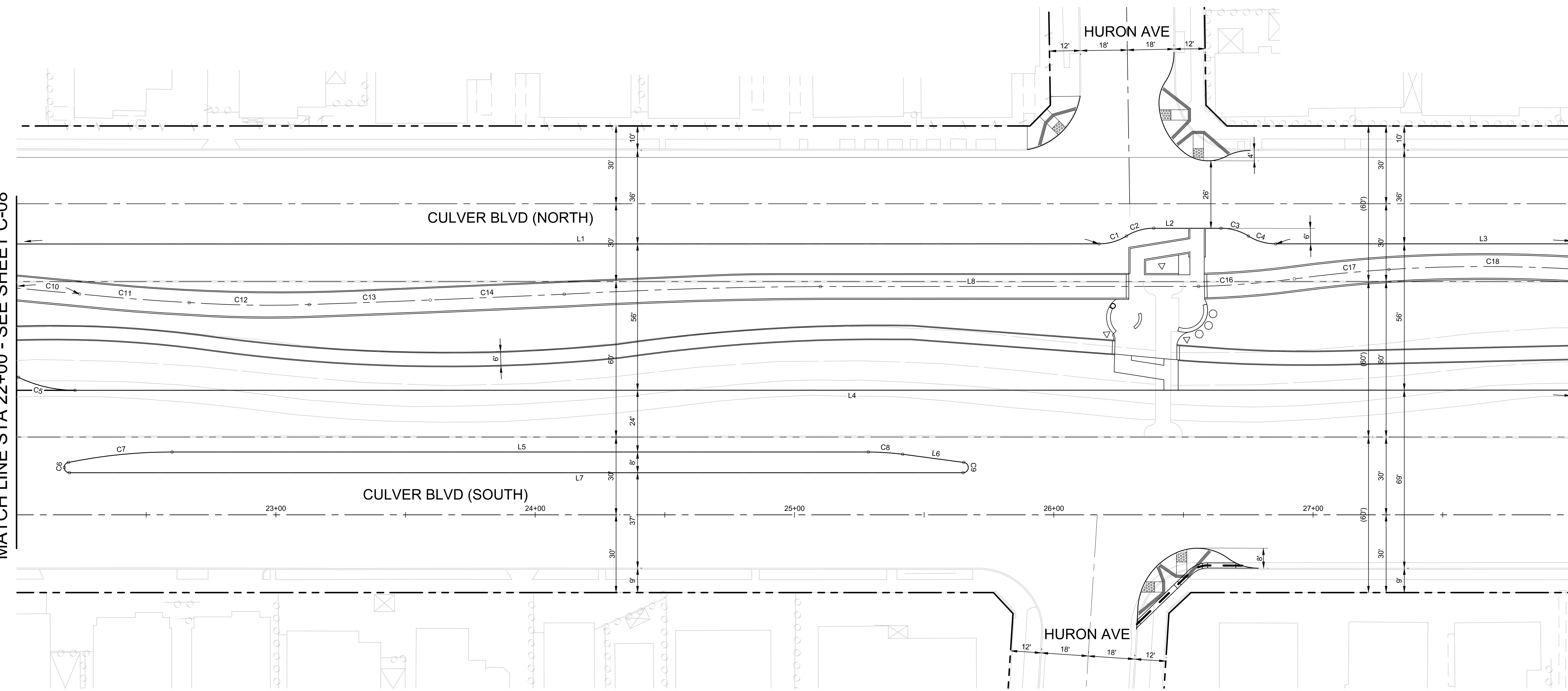
5049-212

Bar Measures 1 inch

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MATCH LINE STA 22+00 - SEE SHEET C-08

MATCH LINE STA 28+00 - SEE SHEET C-10

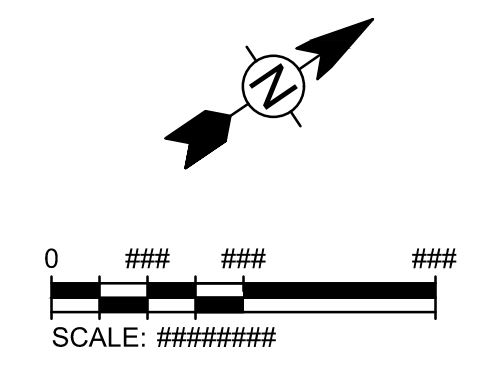


Line Table		
LINE #	LENGTH	BEARING
L1	417.47'	N 34°12'39" E
L2	25.96'	N 34°12'39" E
L3	152.88'	N 34°12'39" E
L4	615.85'	S 34°12'39" W
L5	268.51'	N 34°13'11" E
L6	23.76'	N 41°48'52" E
L7	344.75'	S 34°13'11" W
L8	124.93'	N 34°12'02" E

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C1	11.10'	20.00'	31°47'18"
C2	11.10'	20.00'	31°47'18"
C3	11.10'	20.00'	31°47'13"
C4	11.10'	20.00'	31°47'13"
C5	22.55'	50.00'	25°50'31"
C6	5.88'	2.00'	168°27'49"
C7	40.27'	200.00'	11°32'11"
C8	13.26'	100.00'	7°35'41"
C9	5.89'	2.00'	168°30'42"
C10	32.18'	2710.00'	0°40'49"

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C11	42.36'	804.00'	3°01'07"
C12	46.35'	456.76'	5°48'52"
C13	46.67'	6538.03'	0°24'32"
C14	51.74'	16092.40'	0°11'03"
C16	37.08'	346.95'	6°07'25"
C17	36.63'	514.17'	4°04'56"
C18	72.13'	593.77'	6°57'35"

NOTES:
FOR CURB RETURN LINE AND CURVE DATA, PLEASE SEE SHEETS C-20 THRU C-23.

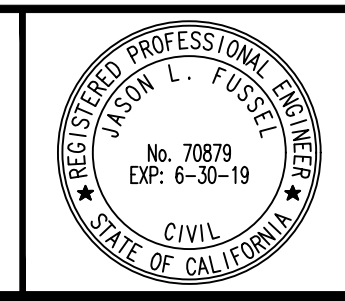
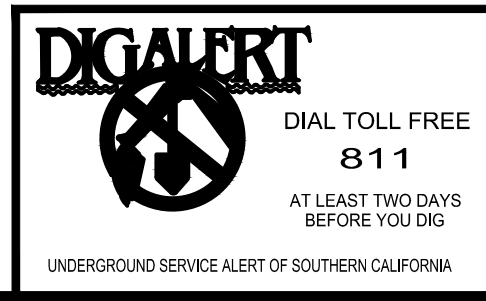


CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

HORIZONTAL CONTROL PLANS
FROM 22+00 TO 28+00

REVIEWED BY AND APPROVED BY: SEE TITLE SHEET

SHEET C-09
SHEET 11 OF 85 SHEETS



PLANS PREPARED UNDER THE SUPERVISION OF:
Jason Fusssel 05/20/2019
DATE
JASON FUSSEL RCE-70879 EXP. 06/30/19
PROJECT NUMBER # PZ-460
DRAWING NO.

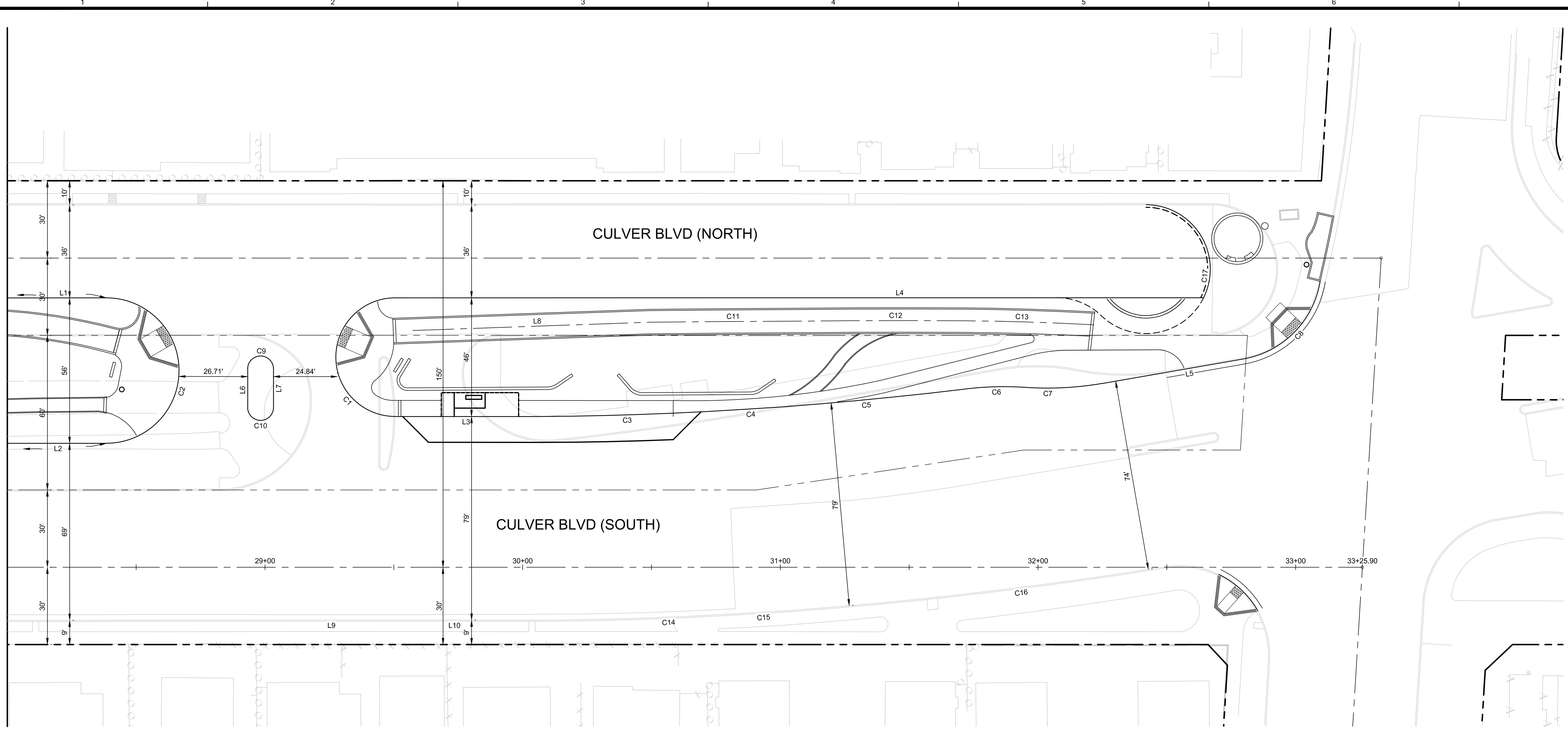
NO.	REVISION	BY	APPR.	DATE

5049-212

Bar Measures 1 inch

6/5/2019 8:27:41 AM - C:\PROJECTS\IRVINE\154197\200-154197-1800\1\CAD\DWG\10-HORIZONTAL CONTROL PLANS 28+00 TO 33+25.DWG - MCCOLLUM, AUSTIN

MATCH LINE STA 28+00 - SEE SHEET C-09

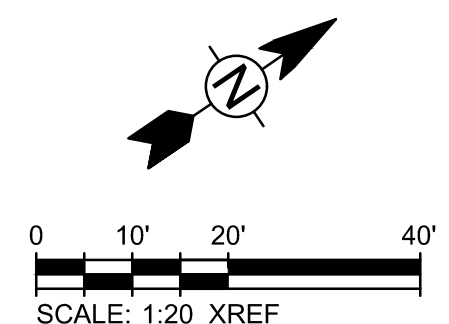


Line Table		
LINE #	LENGTH	BEARING
L1	152.88'	N 34°12'39" E
L2	615.85'	S 34°12'39" W
L3	55.68'	S 34°13'55" W
L4	314.03'	N 34°12'39" E
L5	56.49'	S 24°21'39" W
L6	14.96'	S 55°46'58" E
L7	14.96'	N 55°46'58" W
L8	91.78'	N 32°12'51" E
L9	48.41'	S 34°13'19" W
L10	46.58'	S 34°13'55" W

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C1	72.06'	23.03'	179°16'52"
C2	88.66'	28.22'	180°00'00"
C3	65.17'	1377.10'	2°42'42"
C4	29.31'	2205.44'	0°45'41"
C5	71.76'	1646.63'	2°29'49"
C6	23.13'	117.75'	11°15'14"
C7	30.09'	125.00'	13°47'26"
C8	44.31'	36.50'	69°34'12"
C9	15.71'	5.00'	180°00'00"
C10	15.71'	5.00'	180°00'00"

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C11	58.89'	9666.69'	0°20'57"
C12	63.69'	3665.91'	0°59'43"
C13	50.12'	1119.24'	2°33'57"
C14	69.18'	1456.10'	2°43'20"
C15	30.69'	2284.44'	0°46'11"
C16	143.84'	1725.63'	4°46'33"
C17	50.68'	25.00'	116°08'53"

NOTES:
FOR CURB RETURN LINE AND CURVE DATA, PLEASE SEE SHEETS C-20 THRU C-23.

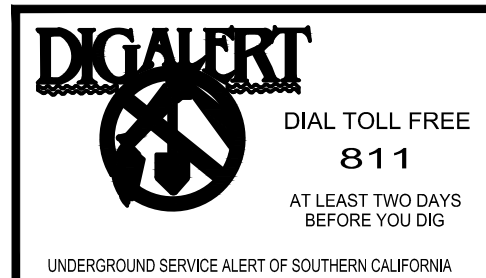


CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

HORIZONTAL CONTROL PLANS
FROM 28+00 TO 33+25

REVIEWED BY AND APPROVED BY
SEE TITLE SHEET

SHEET
C-10
SHEET 12 OF 85 SHEETS



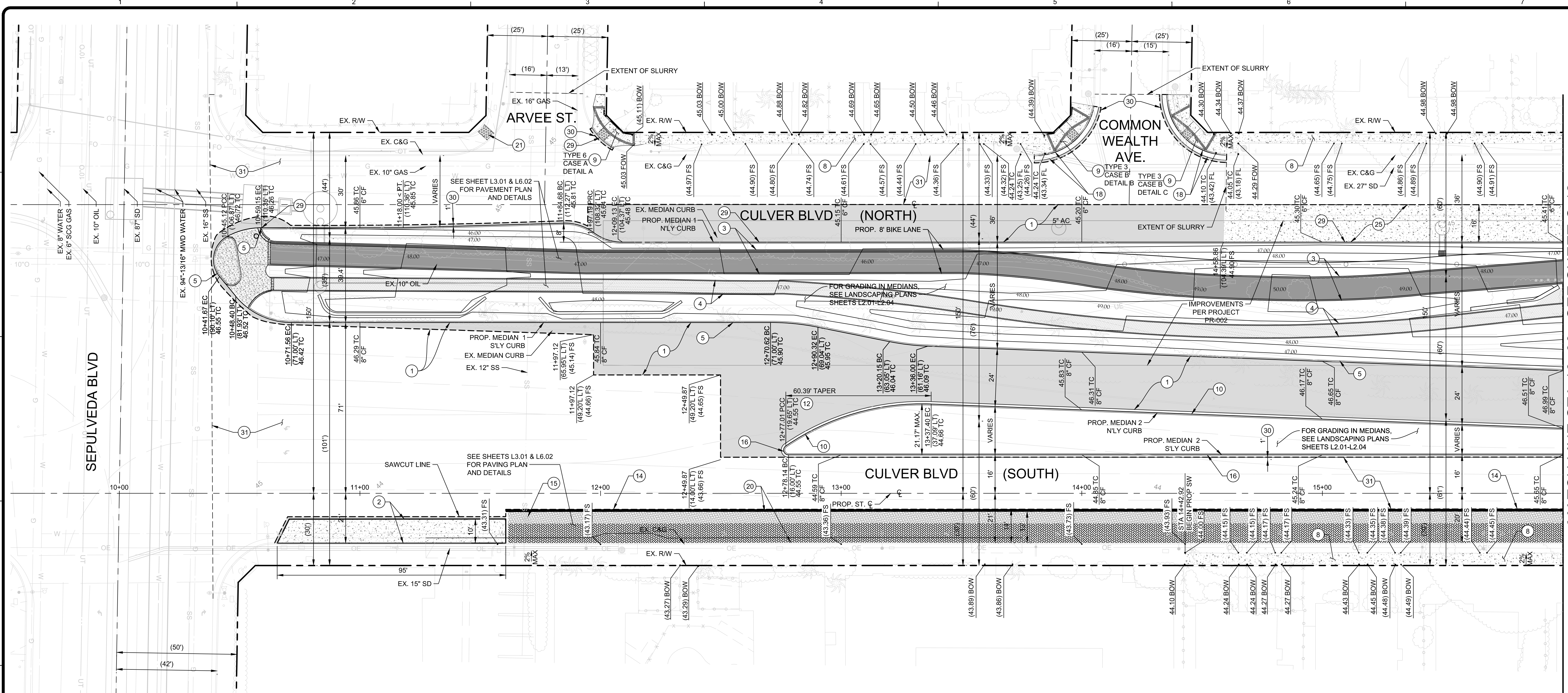
PLANS PREPARED UNDER THE SUPERVISION OF:
Jason L. Fussel 05/20/2019
DATE
JASON FUSSEL RCE 70879 EXP. 06/30/19 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

Bar Measures 1 inch

5049-212

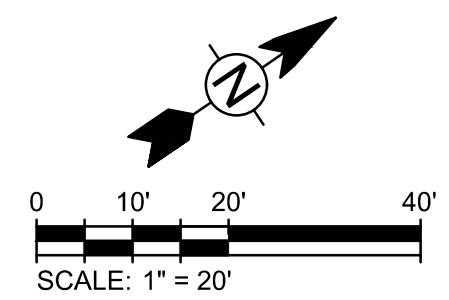
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MATCH LINE STA 16+00 - SEE SHEET C-12

CONSTRUCTION NOTES

- 1) CONSTRUCT 2" ARHM WEARING COURSE OVER 4.5" AC BASE COURSE OVER 16" CMB PAVEMENT OVER 12" TREATED SUBGRADE @ 95% COMPACTION.
- 2) CONSTRUCT 3250 PSI PCC PAVEMENT, 8" DEEP WITH #3 REBAR @ 18" O.C. E.W. OVER 12" CMB OVER 12" TREATED SUBGRADE @ 95% COMPACTION.
- 3) CONSTRUCT 4" A.C. PAVEMENT OVER 6" CMB OVER SELECT FILL @ 95% RELATIVE COMPACTION. (BIKE PATH)
- 4) CONSTRUCT 4" DG OVER 6" CMB OVER SELECT FILL @ 95% RELATIVE COMPACTION. (PED PATH)
- 5) CONSTRUCT 8" TYPE A1-8 CURB PER SPPWC STD. 120-2. OVER 12" TREATED SUBGRADE.
- 6) CONSTRUCT 8" TYPE A2-8 CURB AND GUTTER PER SPPWC STD. 120-2, OVER 12" TREATED SUBGRADE.
- 8) CONSTRUCT 4" PCC SIDEWALK WITH #3 REBAR @ 18" O.C. E.W. OVER 12" TREATED SUBGRADE PER SPPWC STD. 113-2.
- 9) CONSTRUCT ACCESS RAMP WITH TERRACOTA 3'X4' TRUNCATED DOMES PER MODIFIED SPPWC STD. PLAN 111-5, TYPE, CASE, AND DETAIL PER PLAN. SEE CONSTRUCTION DETAILS SHEETS C-20 TO C-23.
- 10) CONSTRUCT 8" TYPE A2-8 C&G OVER 12" TREATED SUBGRADE PER SPPWC STD. 120-2, W=12".
- 12) CONSTRUCT MEDIAN TAPER OVER 12" TREATED SUBGRADE PER SPPWC STD. 140-3.
- 14) CONSTRUCT 12" WIDE CONCRETE MOW STRIP OVER 12" TREATED SUBGRADE.
- 15) ADJUST MANHOLE TO MATCH FINISHED SURFACE.
- 16) CONSTRUCT 8" TYPE A3-8 C&G OVER 12" TREATED SUBGRADE PER SPPWC STD. 120-2, W=12".
- 17) ADJUST ELEC. EQUIPMENT TO MATCH FINISHED GRADE.
- 18) CONSTRUCT 6" TYPE A2-6 C&G OVER 12" TREATED SUBGRADE PER SPPWC STD. PLAN 120-2.
- 20) CONSTRUCT CONCRETE PAVERS OVER 12" TREATED SUBGRADE. FINISH PER LANDSCAPE PLANS.
- 21) FURNISH AND INSTALL TERRACOTA 3'X4' TRUNCATED DOMES PER SPPWC STD. PLAN 111-5.
- 25) CONSTRUCT 3250 PSI 8 1/2" PCC WITH #3 REBAR @ 18" O.C. E.W. OVER 8" CMB OVER 12" TREATED SUBGRADE @ 95% COMPACTION.
- 29) CONSTRUCT 6" TYPE A1-6 CURB OVER 12" TREATED SUBGRADE PER SPPWC STD. 120-2.
- 30) CONSTRUCT 18" FULL DEPTH AC SLO PAVE OVER 12" TREATED SUBGRADE @ 95% COMPACTION.
- 31) APPLY TYPE II SLURRY



**CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT**

ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

**STREET IMPROVEMENT PLAN
FROM STA 10+00 TO STA 16+00**

REVIEWED BY AND APPROVED BY
SEE TITLE SHEET

SHEET
C-11
SHEET 130F 85 SHEETS

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PLANS PREPARED UNDER THE SUPERVISION OF:
Jason Fuscel
05/20/2019 DATE
JASON FUSCEL RCE 70879 EXP. 06/30/19
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

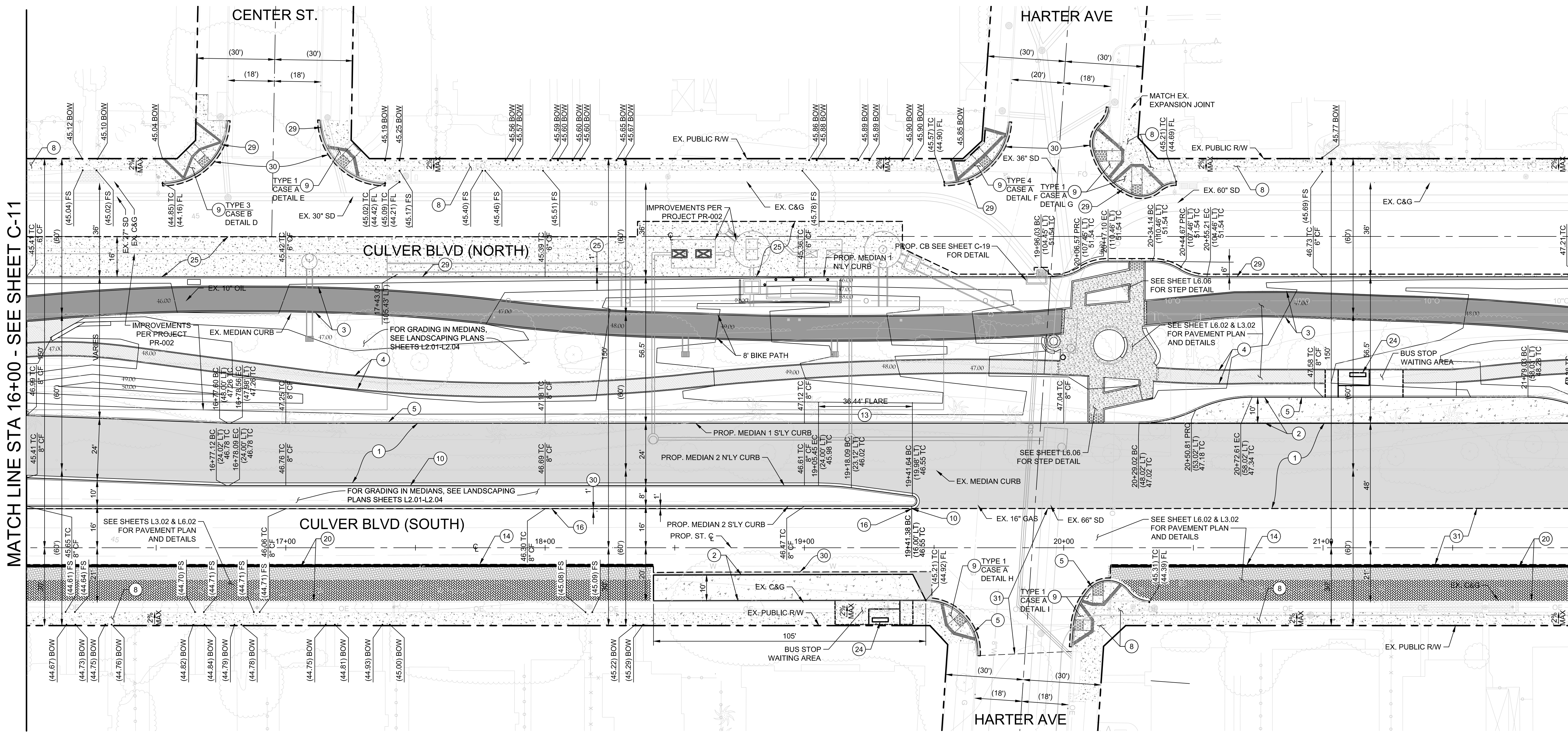
5049-212

Bar Measures 1 inch

6/5/2019 8:31:37 AM - C:\PROJECTS\IRVINE\154197200-154197-1800\1\CAD\SHETS\FILESC-12\PLAN VIEW 16+00 TO 22+00.DWG - MCCOLLUM, AUSTIN

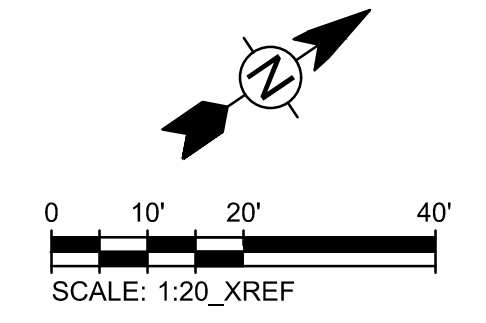
MATCH LINE STA 16+00 - SEE SHEET C-11

MATCH LINE STA 22+00 - SEE SHEET C-13



CONSTRUCTION NOTES

- 1 CONSTRUCT 2" ARHM WEARING COURSE OVER 4.5" AC BASE COURSE OVER 18" CMB PAVEMENT OVER 12" TREATED SUBGRADE @ 95% COMPACTION.
- 2 CONSTRUCT 3250 PSI PCC PAVEMENT, 8" DEEP WITH #3 REBAR @ 18" O.C. E.W. OVER 12" CMB OVER 12" TREATED SUBGRADE @ 95% COMPACTION.
- 3 CONSTRUCT 4" A.C. PAVEMENT OVER 6" CMB OVER SELECT FILL @ 95% RELATIVE COMPACTION. (BIKE PATH)
- 4 CONSTRUCT 4" DG OVER 6" CMB OVER SELECT FILL @ 95% RELATIVE COMPACTION. (PED PATH)
- 5 CONSTRUCT 8" TYPE A1-8 CURB PER SPPWC STD. 120-2, OVER 12" TREATED SUBGRADE.
- 8 CONSTRUCT 4" PCC SIDEWALK WITH #3 REBAR @ 18" O.C. E.W. OVER 12" TREATED SUBGRADE PER SPPWC STD. 113-2.
- 9 CONSTRUCT ACCESS RAMP WITH TERRACOTA 3'X4' TRUNCATED DOMES PER MODIFIED SPPWC STD. PLAN 111-5, TYPE, CASE, AND DETAIL PER PLAN. SEE CONSTRUCTION DETAILS SHEETS C-20 TO C-23.
- 10 CONSTRUCT 8" TYPE A2-8 C&G OVER 12" TREATED SUBGRADE PER SPPWC STD. 120-2, W=12".
- 13 CONSTRUCT MEDIAN FLARE OVER 12" TREATED SUBGRADE PER SPPWC STD. 141-2.
- 14 CONSTRUCT 12" WIDE CONCRETE MOW STRIP OVER 12" TREATED SUBGRADE.
- 16 CONSTRUCT 8" TYPE A3-8 C&G OVER 12" TREATED SUBGRADE PER SPPWC STD. 120-2, W=12".
- 17 ADJUST ELEC. EQUIPMENT TO MATCH FINISHED GRADE.
- 18 CONSTRUCT 6" TYPE A2-6 C&G OVER 12" TREATED SUBGRADE PER SPPWC STD. PLAN 120-2.
- 20 CONSTRUCT CONCRETE PAVERS OVER 12" TREATED SUBGRADE, FINISH PER LANDSCAPE PLANS.
- 24 REINSTALL BUS STOP ENCLOSURE, SIGN POST, AND FURNITURE PER CITY OF CULVER BUS STOP STANDARDS.
- 25 CONSTRUCT 3250 PSI 8 1/2" PCC WITH #3 REBAR @ 18" O.C. E.W. OVER 8" CMB OVER 12" TREATED SUBGRADE @ 95% COMPACTION.
- 29 CONSTRUCT 6" TYPE A1-6 CURB OVER 12" TREATED SUBGRADE PER SPPWC STD. 120-2.
- 30 CONSTRUCT 18" FULL DEPTH AC SLOT PAVE OVER 12" TREATED SUBGRADE @ 95% COMPACTION.
- 31 APPLY TYPE II SLURRY



CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

STREET IMPROVEMENT PLAN
FROM STA 16+00 TO STA 22+00

REVIEWED BY AND APPROVED BY
SEE TITLE SHEET

SHEET
C-12
SHEET 14 OF 85 SHEETS

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REGISTERED PROFESSIONAL ENGINEER
No. 70879
Exp. 6-30-19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:

05/20/2019

JASON FUSSELL RCE-70879 EXP. 06/30/19 DATE

PROJECT NUMBER # PZ-460

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

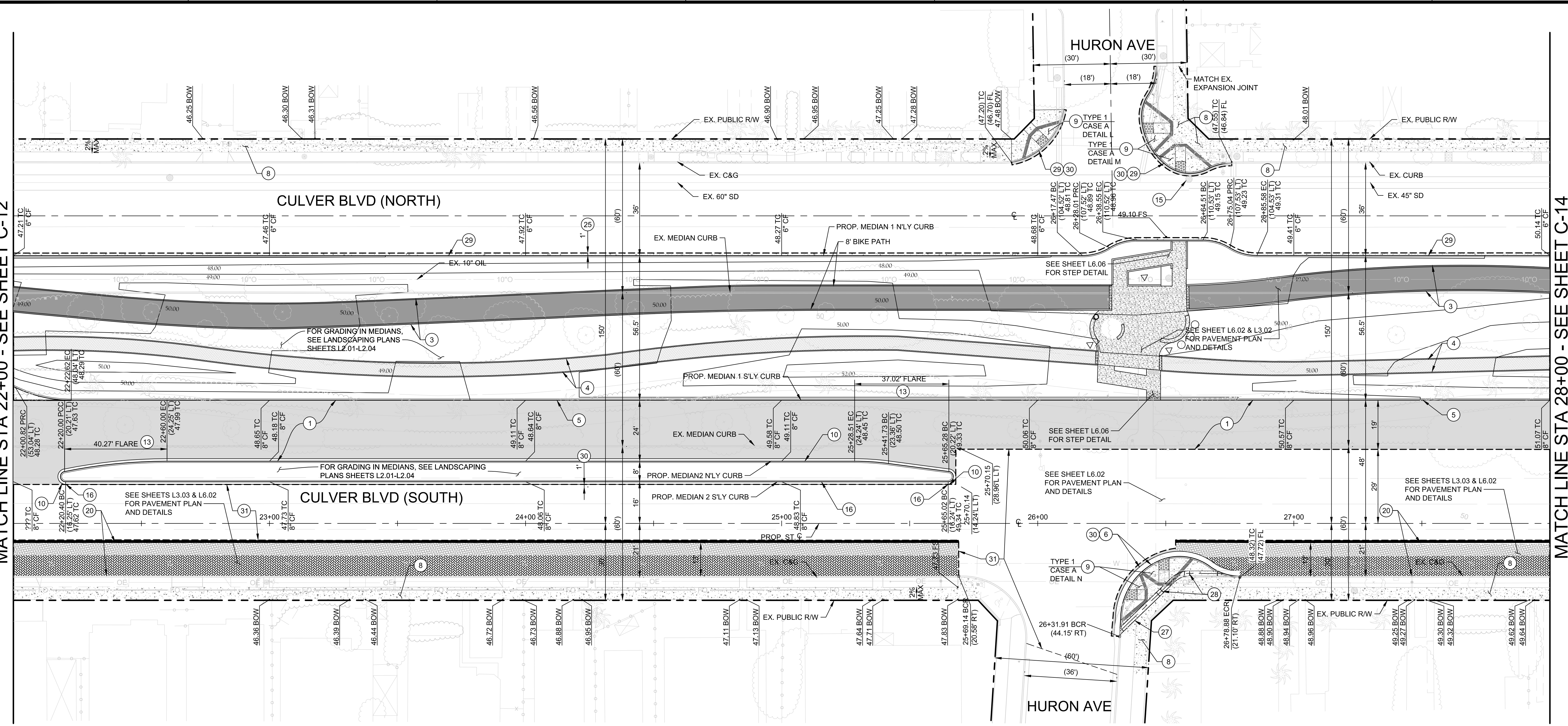
5049-212

Bar Measures 1 inch

6/5/2019 8:33:51 AM - C:\PROJECTS\IRVINE\154197200-154197-1800\1\CAD\PROJECT\13-PLAN VIEW 22+00 TO 28+00.DWG - MCCOLLUM, AUSTIN

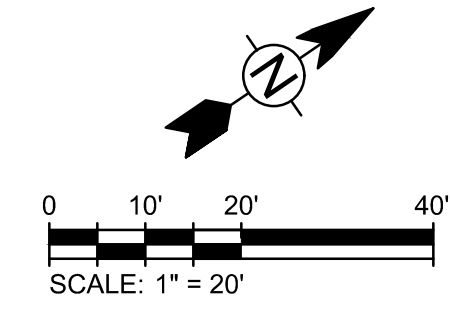
MATCH LINE STA 22+00 - SEE SHEET C-12

MATCH LINE STA 28+00 - SEE SHEET C-14



CONSTRUCTION NOTES

- 1 CONSTRUCT 2" ARHM WEARING COURSE OVER 4.5" AC BASE COURSE OVER 16" CMB PAVEMENT OVER 12" TREATED SUBGRADE @ 95% COMPACTION.
- 2 CONSTRUCT 4" A.C. PAVEMENT OVER 6" CMB OVER SELECT FILL @ 95% RELATIVE COMPACTION. (BIKE PATH)
- 3 CONSTRUCT 4" DG OVER 6" CMB OVER SELECT FILL @ 95% RELATIVE COMPACTION. (PED PATH)
- 4 CONSTRUCT 8" TYPE A1-8 CURB PER SPPWC STD. 120-2, OVER 12" TREATED SUBGRADE.
- 5 CONSTRUCT 8" TYPE A2-8 CURB AND GUTTER PER SPPWC STD. 120-2, OVER 12" TREATED SUBGRADE.
- 6 CONSTRUCT 4" PCC SIDEWALK WITH #3 REBAR @ 18" O.C. E.W. OVER 12" TREATED SUBGRADE PER SPPWC STD. 113-2.
- 7 CONSTRUCT ACCESS RAMP WITH TERRACOTA 3'X4' TRUNCATED DOMES PER MODIFIED SPPWC STD. PLAN 111-5, TYPE, CASE, AND DETAIL PER PLAN. SEE CONSTRUCTION DETAILS SHEETS C-20 TO C-23.
- 8 CONSTRUCT 8" TYPE A2-8 C&G OVER 12" TREATED SUBGRADE PER SPPWC STD. 120-2, W=12".
- 9 CONSTRUCT 12" WIDE CONCRETE MOW STRIP OVER 12" TREATED SUBGRADE.
- 10 ADJUST MANHOLE TO MATCH FINISHED SURFACE.
- 11 CONSTRUCT 8" TYPE A3-8 C&G OVER 12" TREATED SUBGRADE PER SPPWC STD. 120-2, W=12".
- 12 ADJUST ELEC. EQUIPMENT TO MATCH FINISHED GRADE.
- 13 CONSTRUCT 6" TYPE A2-6 C&G OVER 12" TREATED SUBGRADE PER SPPWC STD. PLAN 120-2.
- 14 CONSTRUCT CONCRETE PAVERS OVER 12" TREATED SUBGRADE. FINISH PER LANDSCAPE PLANS.
- 15 CONSTRUCT 3250 PSI 8 1/2" PCC WITH #3 REBAR @ 18" O.C. E.W. OVER 8" CMB OVER 12" TREATED SUBGRADE @ 95% COMPACTION.
- 16 CONSTRUCT PARKWAY DRAIN OVER 12" TREATED SUBGRADE PER SPPWC STD. PLAN 151-2, S=24".
- 17 CONSTRUCT RECTANGULAR FRAME AND COVER PER SPPWC STD. PLAN 152-2.
- 18 CONSTRUCT 6" TYPE A1-6 CURB OVER 12" TREATED SUBGRADE PER SPPWC STD. 120-2.
- 19 CONSTRUCT 18" FULL DEPTH AC SLOT PAVE OVER 12" TREATED SUBGRADE @ 95% COMPACTION.
- 20 APPLY TYPE II SLURRY



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ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

STREET IMPROVEMENT PLAN
FROM STA 22+00 TO STA 28+00

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SHEET
C-13
SHEET 15 OF 85 SHEETS

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REGISTERED PROFESSIONAL ENGINEER
JASON L. FUSSELL
No. 70879
Exp. 6-30-19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Jason Fussell
DATE: 05/20/2019
PROJECT NUMBER # PZ-460
DRAWING NO.

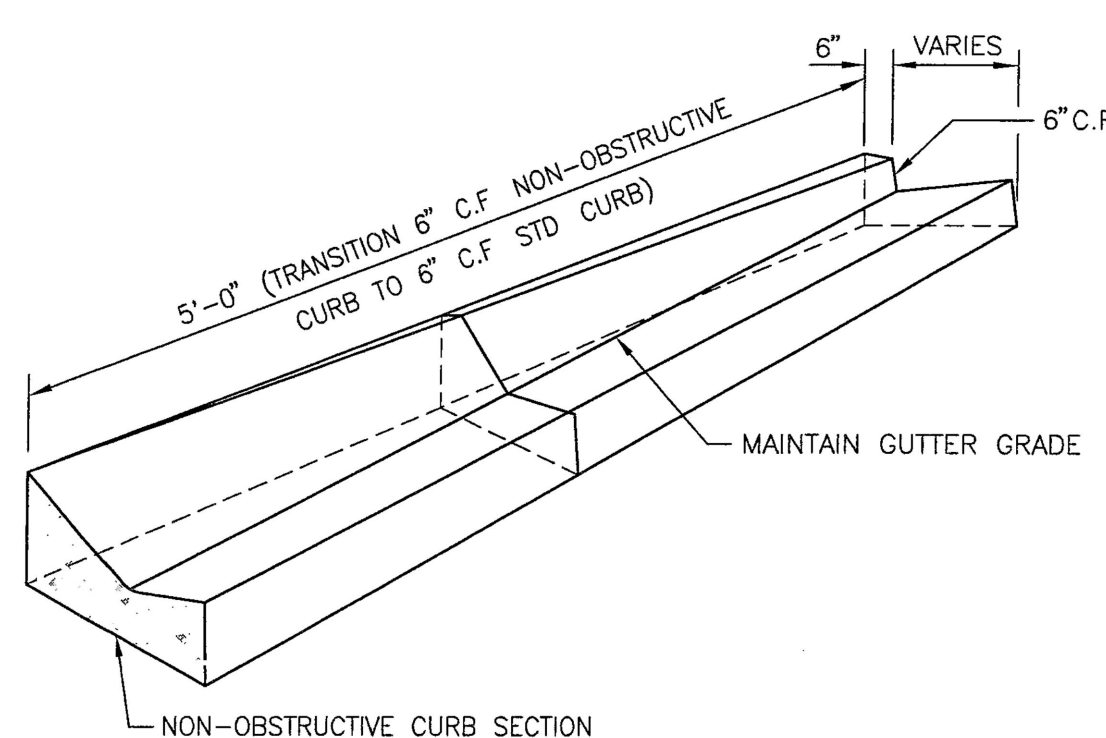
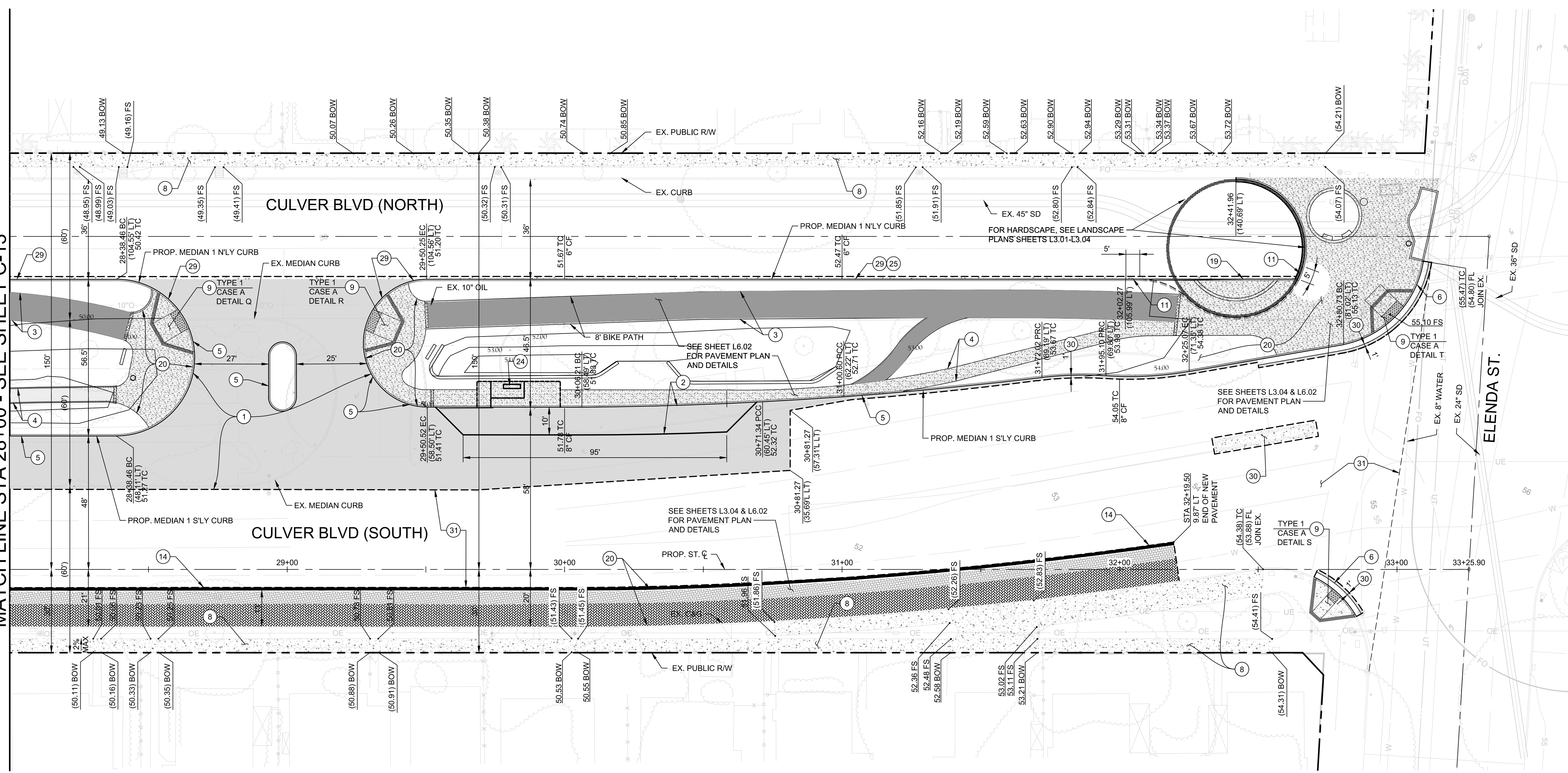
NO.	REVISION	BY	APPR.	DATE

Bar Measures 1 inch

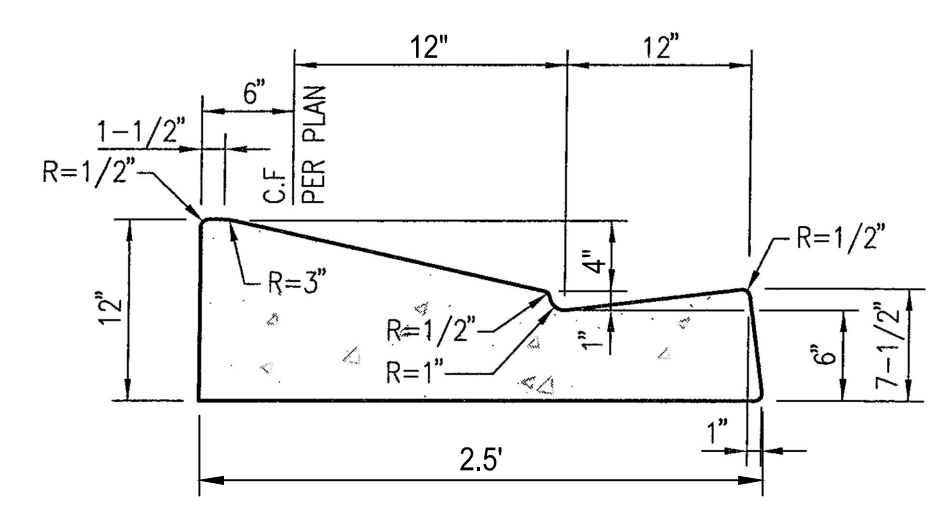
5049-212

6/5/2019 8:36:19 AM - C:\PROJECTS\IRVINE\154197\200-154197-1800\1\CAD\SHETS\C-14\PLAN VIEW 28+00 TO 33+25.DWG - MCCOLLUM, AUSTIN

MATCH LINE STA 28+00 - SEE SHEET C-13



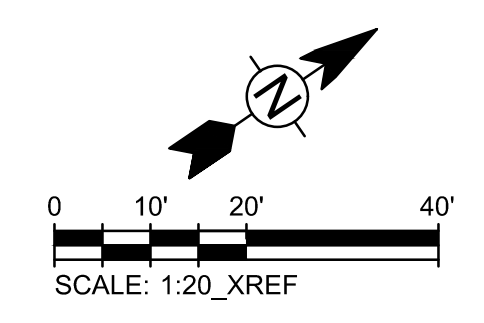
11 CONCRETE CURB TRANSITION
SCALE: N.T.S.



19 CONCRETE ROLLED CURB
SCALE: N.T.S.

CONSTRUCTION NOTES

- 1 CONSTRUCT 2" ARHM WEARING COURSE OVER 4.5" AC BASE COURSE OVER 16" CMB PAVEMENT OVER 12" TREATED SUBGRADE @ 95% COMPACTION.
- 2 CONSTRUCT 3250 PSI PCC PAVEMENT, 8" DEEP WITH #3 REBAR @ 18" O.C. E.W. OVER 12" CMB OVER 12" TREATED SUBGRADE @ 95% COMPACTION.
- 3 CONSTRUCT 4" A.C. PAVEMENT OVER 6" CMB OVER SELECT FILL @ 95% RELATIVE COMPACTION. (BIKE PATH)
- 4 CONSTRUCT 4" DG OVER 6" CMB OVER SELECT FILL @ 95% RELATIVE COMPACTION. (PED PATH)
- 5 CONSTRUCT 6" TYPE A1-8 CURB PER SPPWC STD. 120-2, OVER 12" TREATED SUBGRADE.
- 6 CONSTRUCT 8" TYPE A2-8 CURB AND GUTTER PER SPPWC STD. 120-2, OVER 12" TREATED SUBGRADE.
- 8 CONSTRUCT 4" PCC SIDEWALK WITH #3 REBAR @ 18" O.C. E.W. OVER 12" TREATED SUBGRADE PER SPPWC STD. 113-2.
- 9 CONSTRUCT ACCESS RAMP WITH TERRACOTA 3'X4' TRUNCATED DOMES PER MODIFIED SPPWC STD. PLAN 111-5, TYPE, CASE, AND DETAIL PER PLAN. SEE CONSTRUCTION DETAILS SHEETS C-20 TO C-23.
- 10 CONSTRUCT 8" TYPE A2-8 C&G OVER 12" TREATED SUBGRADE PER SPPWC STD. 120-2, W=12".
- 11 CONSTRUCT CONCRETE CURB TRANSITION OVER 12" TREATED SUBGRADE PER DETAIL HEREON.
- 14 CONSTRUCT 12" WIDE CONCRETE MOW STRIP OVER 12" TREATED SUBGRADE, ADJUST MANHOLE TO MATCH FINISHED SURFACE.
- 17 ADJUST ELEC. EQUIPMENT TO MATCH FINISHED GRADE.
- 18 CONSTRUCT 6" TYPE A2-6 C&G OVER 12" TREATED SUBGRADE PER SPPWC STD. PLAN 120-2.
- 19 CONSTRUCT ROLLED CURB PER DETAIL HEREON.
- 20 CONSTRUCT CONCRETE PAVERS OVER 12" TREATED SUBGRADE, FINISH PER LANDSCAPE PLANS.
- 24 REINSTALL BUS STOP ENCLOSURE, SIGN POST, AND FURNITURE PER CITY OF CULVER BUS STOP STANDARDS.
- 29 CONSTRUCT 6" TYPE A1-6 CURB OVER 12" TREATED SUBGRADE PER SPPWC STD. 120-2.
- 30 CONSTRUCT 18" FULL DEPTH AC SLOT PAVE OVER 12" TREATED SUBGRADE @ 95% COMPACTION.
- 31 APPLY TYPE II SLURRY

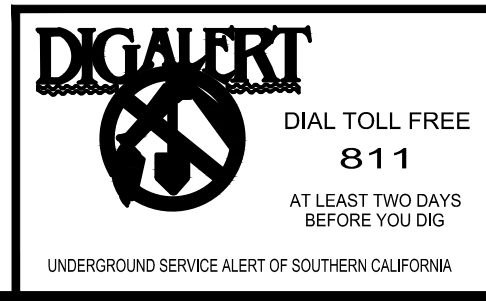


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CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

STREET IMPROVEMENT PLAN
FROM STA 28+00 TO STA 33+25

REVIEWED BY AND APPROVED BY
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SHEET
C-14
SHEET 160F 85 SHEETS



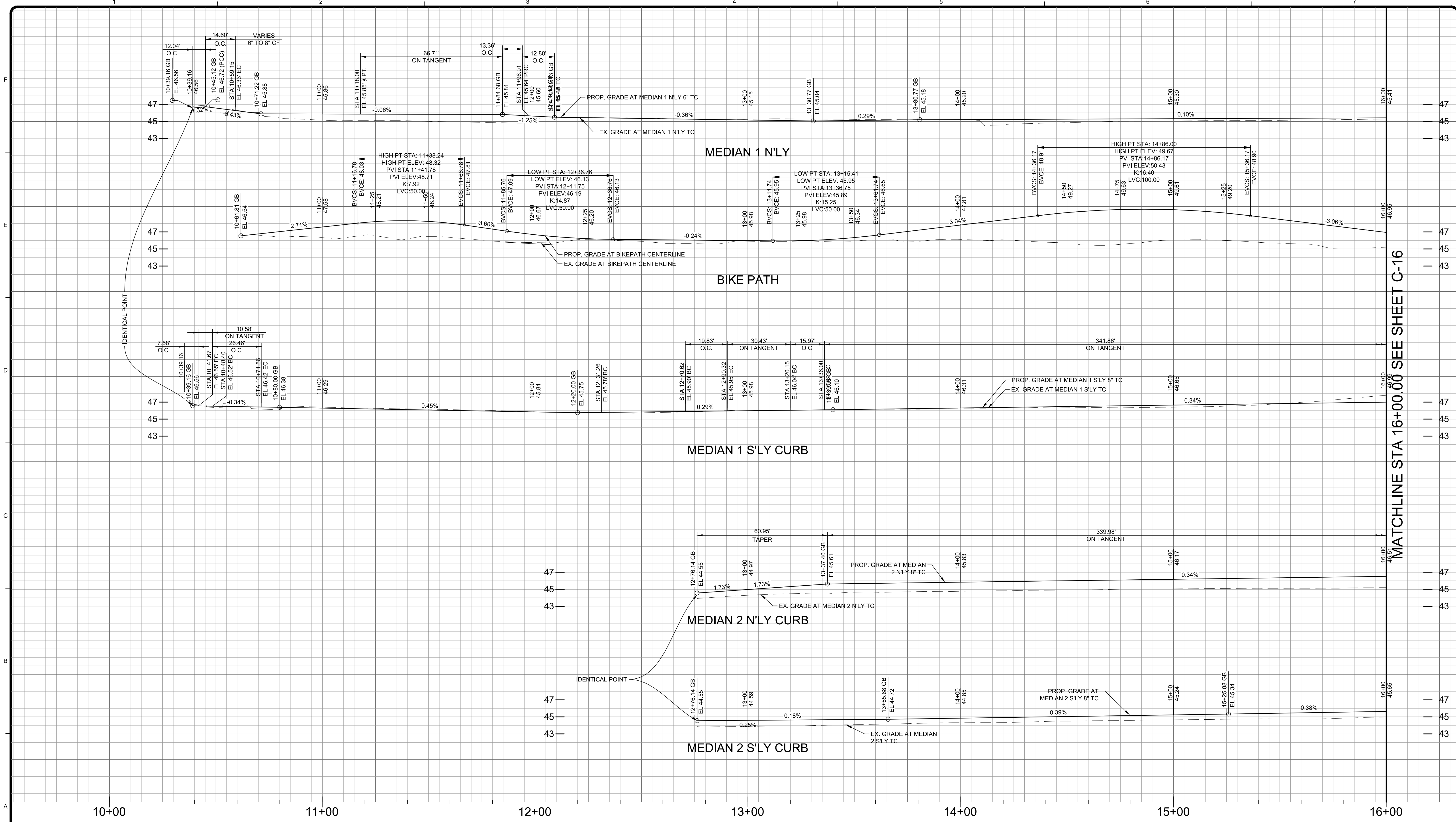
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PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

5049-212

Bar Measures 1 inch

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MATCHLINE STA 16+00.00 SEE SHEET C-16

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CULVER BOULEVARD REALIGNMENT PROJECT
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STREET IMPROVEMENT PROFILE
FROM STA 10+00 TO STA 16+00

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SEE TITLE SHEET

SHEET
C-15
SHEET 17 OF 85 SHEETS

PROFILE SCALE
HORIZ. 1" = 20'
VERT. 1" = 5'

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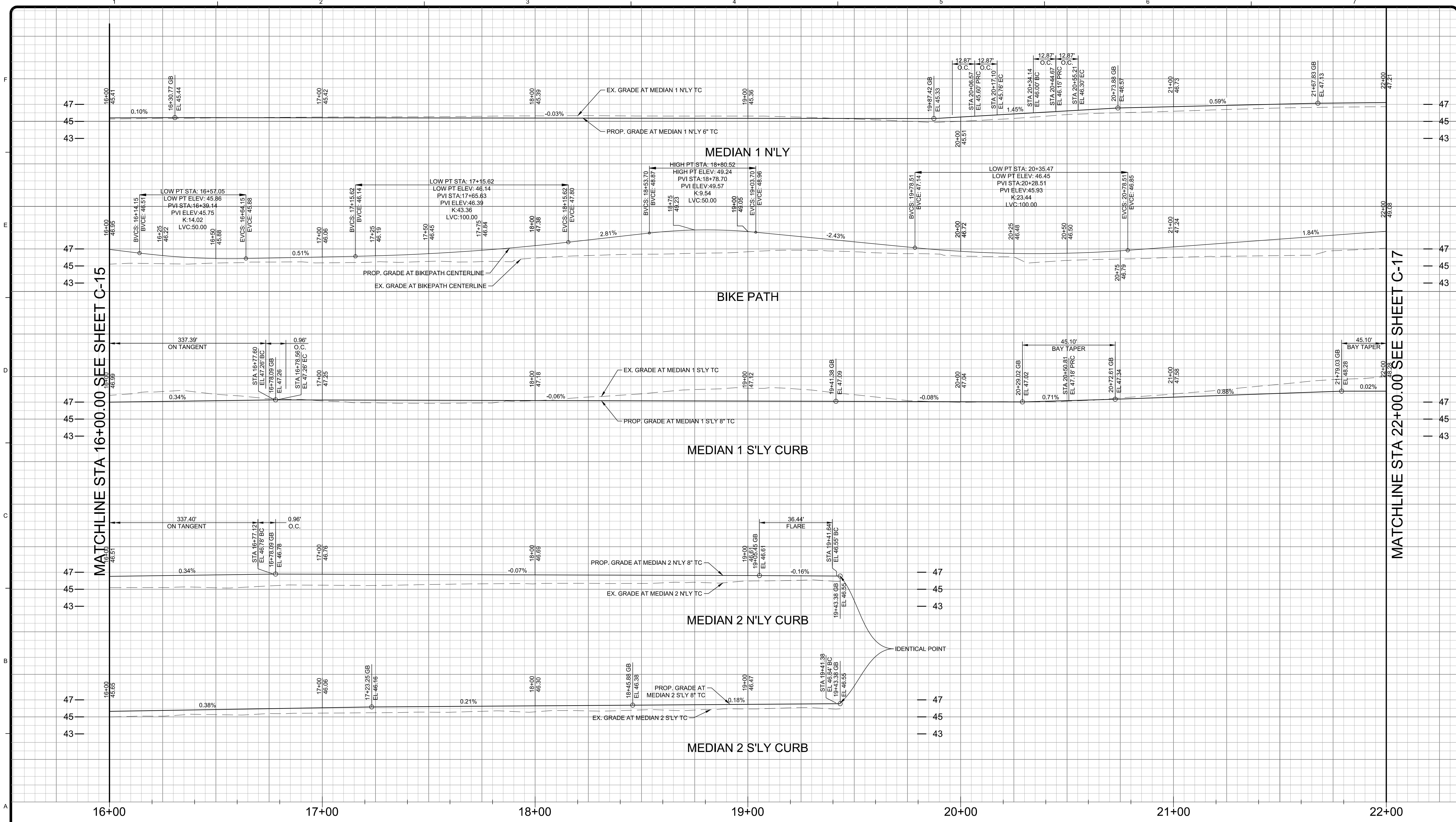
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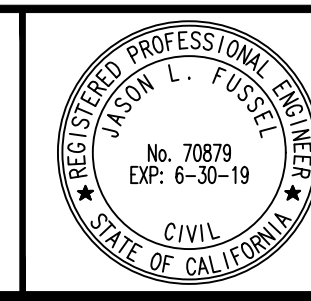
MATCHLINE STA 16+00.00 SEE SHEET C-15

MATCHLINE STA 22+00.00 SEE SHEET C-17

PROFILE SCALE
HORIZ. 1" = 20'
VERT. 1" = 5'

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CULVER BOULEVARD REALIGNMENT PROJECT
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STREET IMPROVEMENT PROFILE
FROM 16+00 TO 22+00
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SHEET C-16
SHEET 18 OF 85 SHEETS



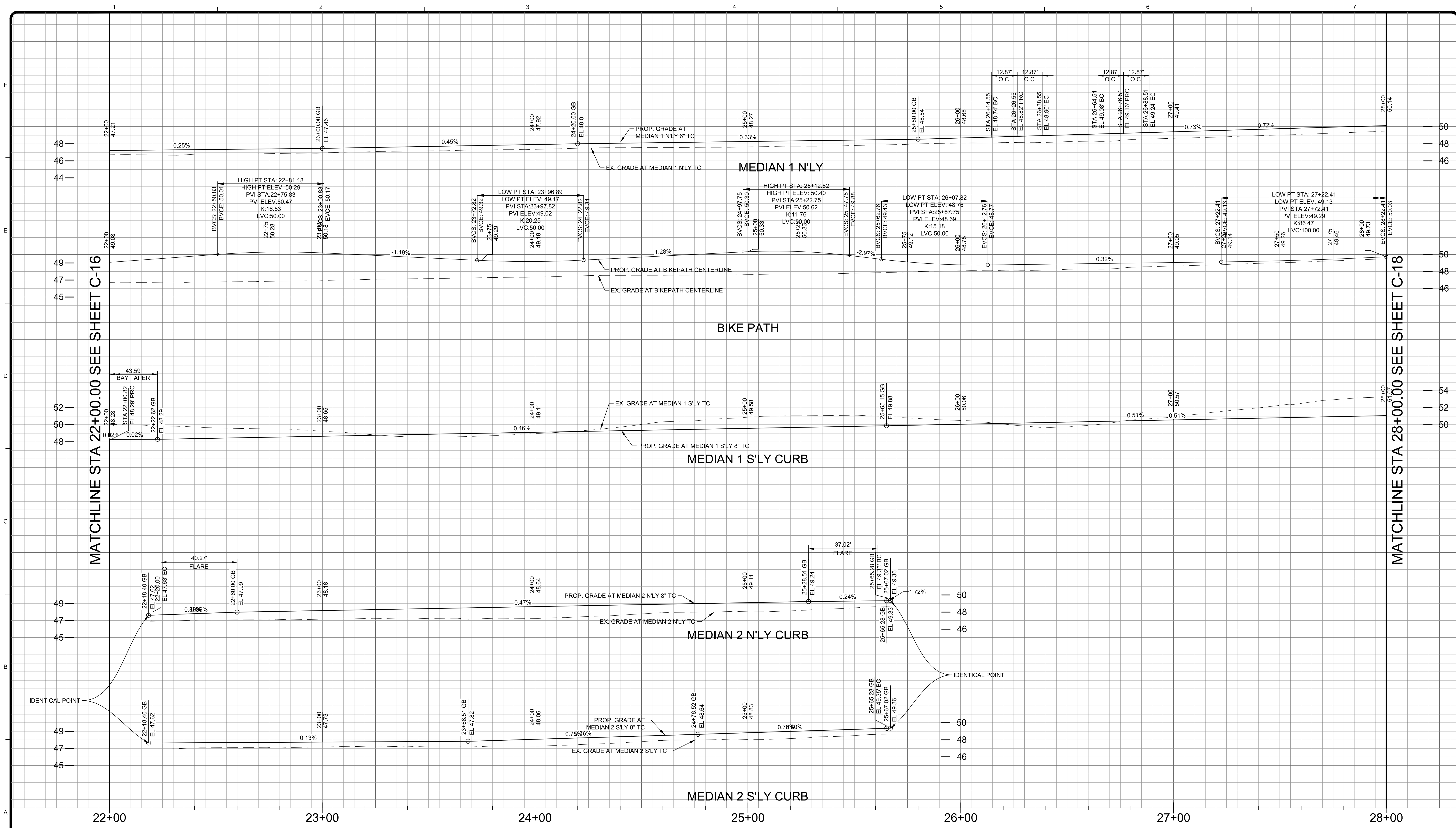
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Bar Measures 1 inch

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MATCHLINE STA 22+00.00 SEE SHEET C-16

MATCHLINE STA 28+00.00 SEE SHEET C-18

PROFILE SCALE
HORIZ. 1" = 20'
VERT. 1" = 5'

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STREET IMPROVEMENT PROFILE
FROM 22+00 TO 28+00

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SHEET
C-17
SHEET 19 OF 85 SHEETS

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CIVIL
STATE OF CALIFORNIA

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JASON FUSSEL RCE 70879 EXP. 06/30/19
PROJECT NUMBER # PZ-460
DRAWING NO.

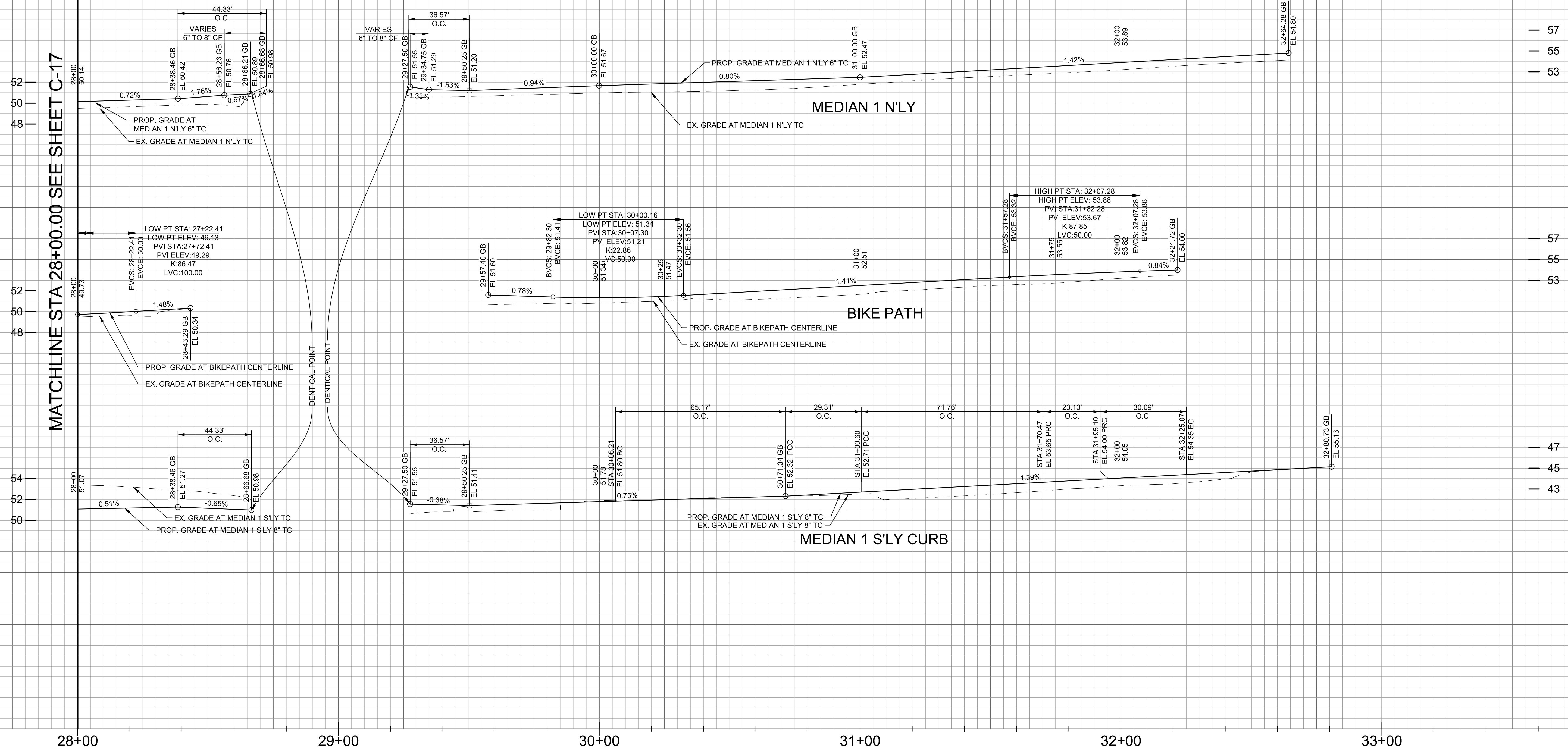
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Bar Measures 1 inch

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MATCHLINE STA 28+00.00 SEE SHEET C-17



— 57
— 55
— 53

— 57
— 55
— 53

— 47
— 45
— 43

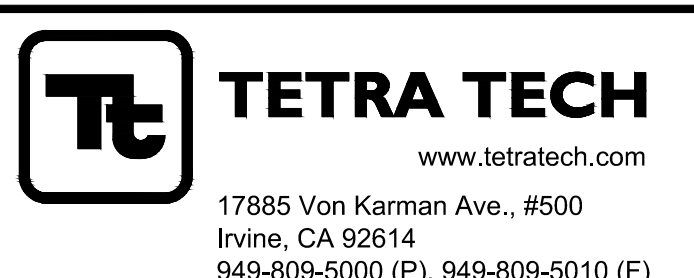
PROFILE SCALE
HORIZ. 1" = 20'
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CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

STREET IMPROVEMENT PROFILE
FROM STA 28+00 TO 33+25

REVIEWED BY AND APPROVED BY
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SHEET
C-18
SHEET 20 OF 85 SHEETS



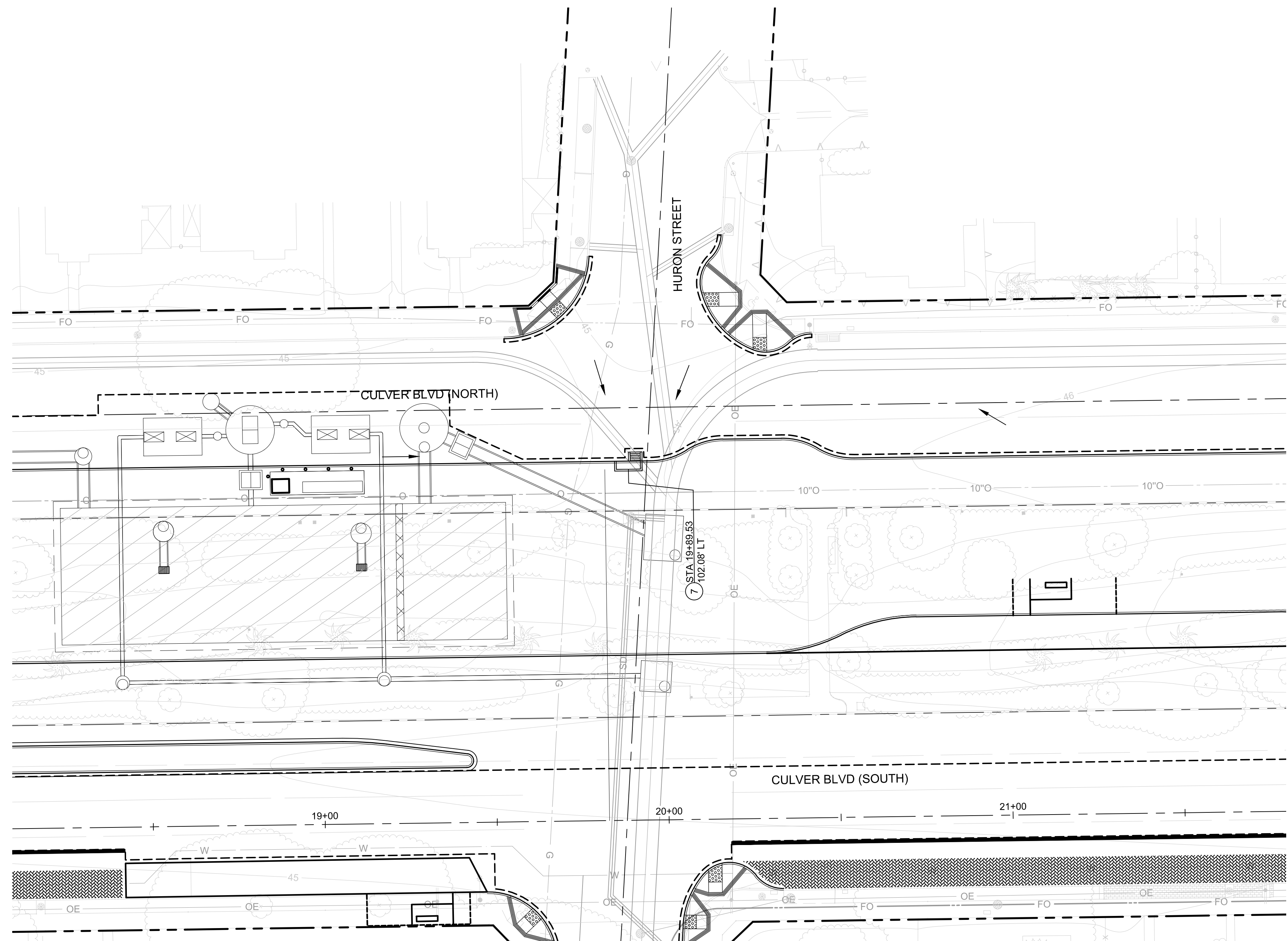
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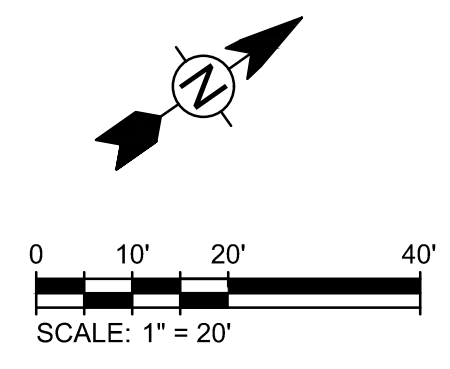
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CONSTRUCTION NOTES
 ⑦ CONSTRUCT CURB OPENING CATCH BASIN PER CULVER BOULEVARD FILTRATION AND RETENTION PROJECT (PR-002).



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STORM DRAIN RELOCATION PLAN

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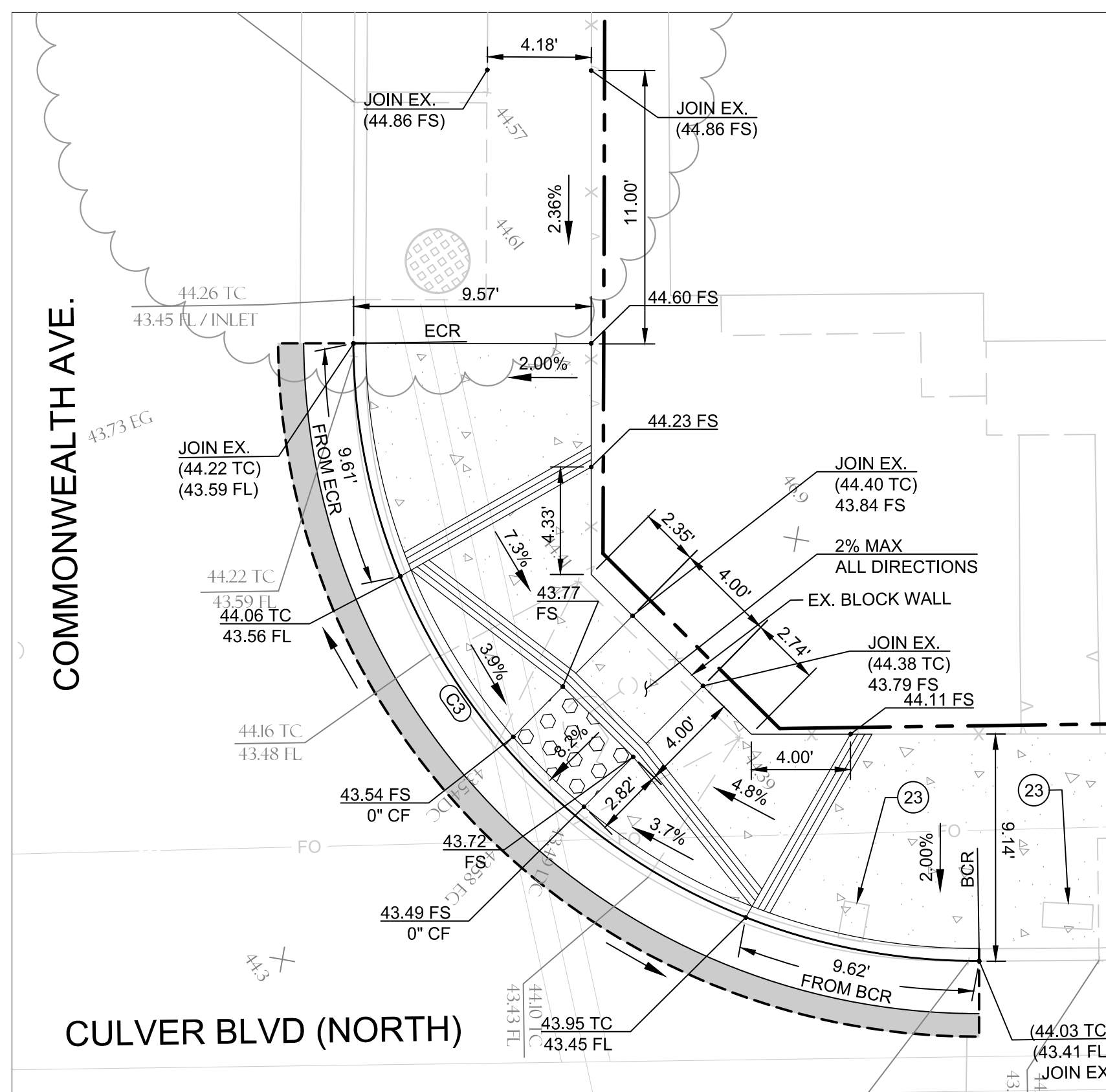
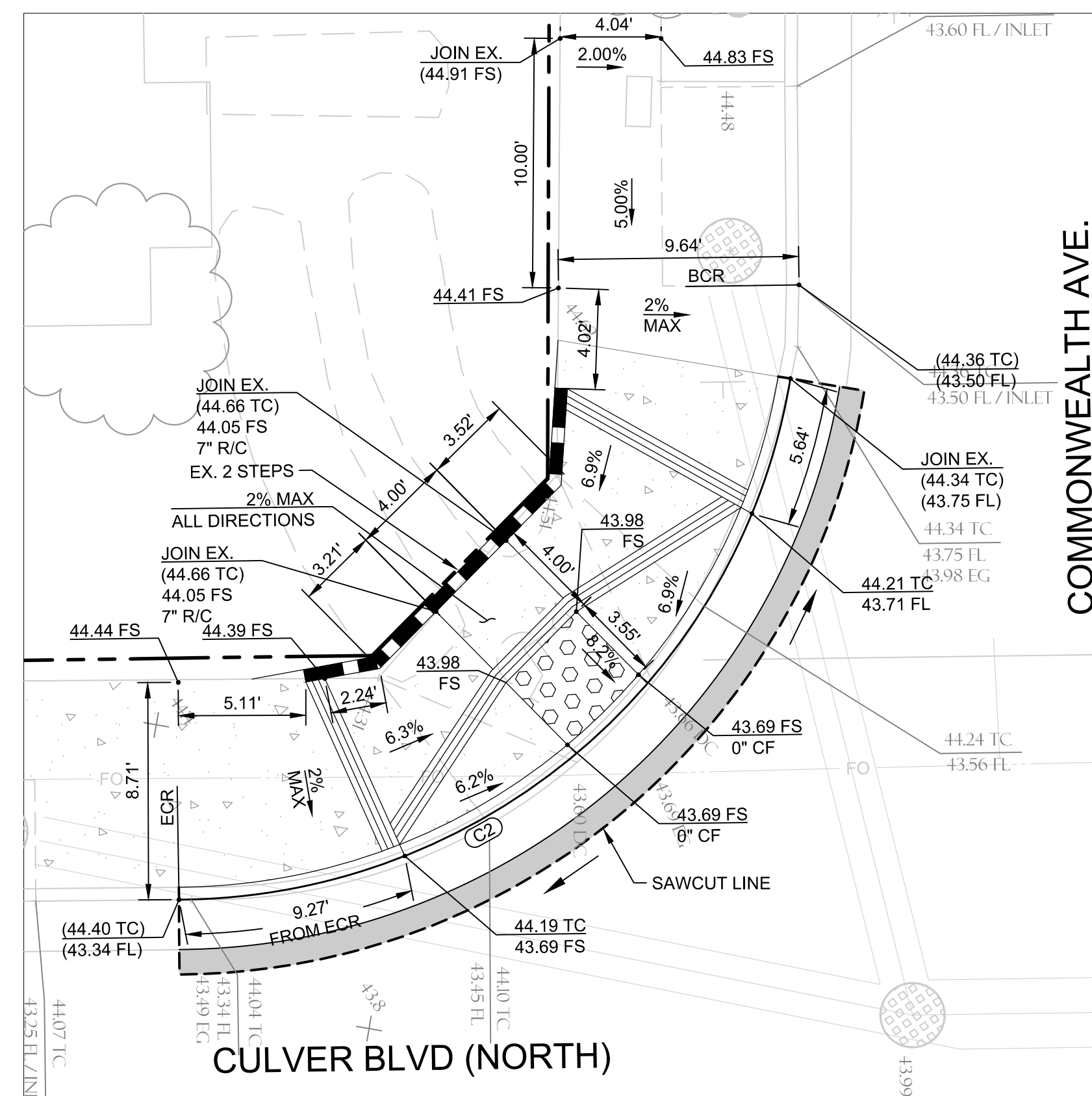
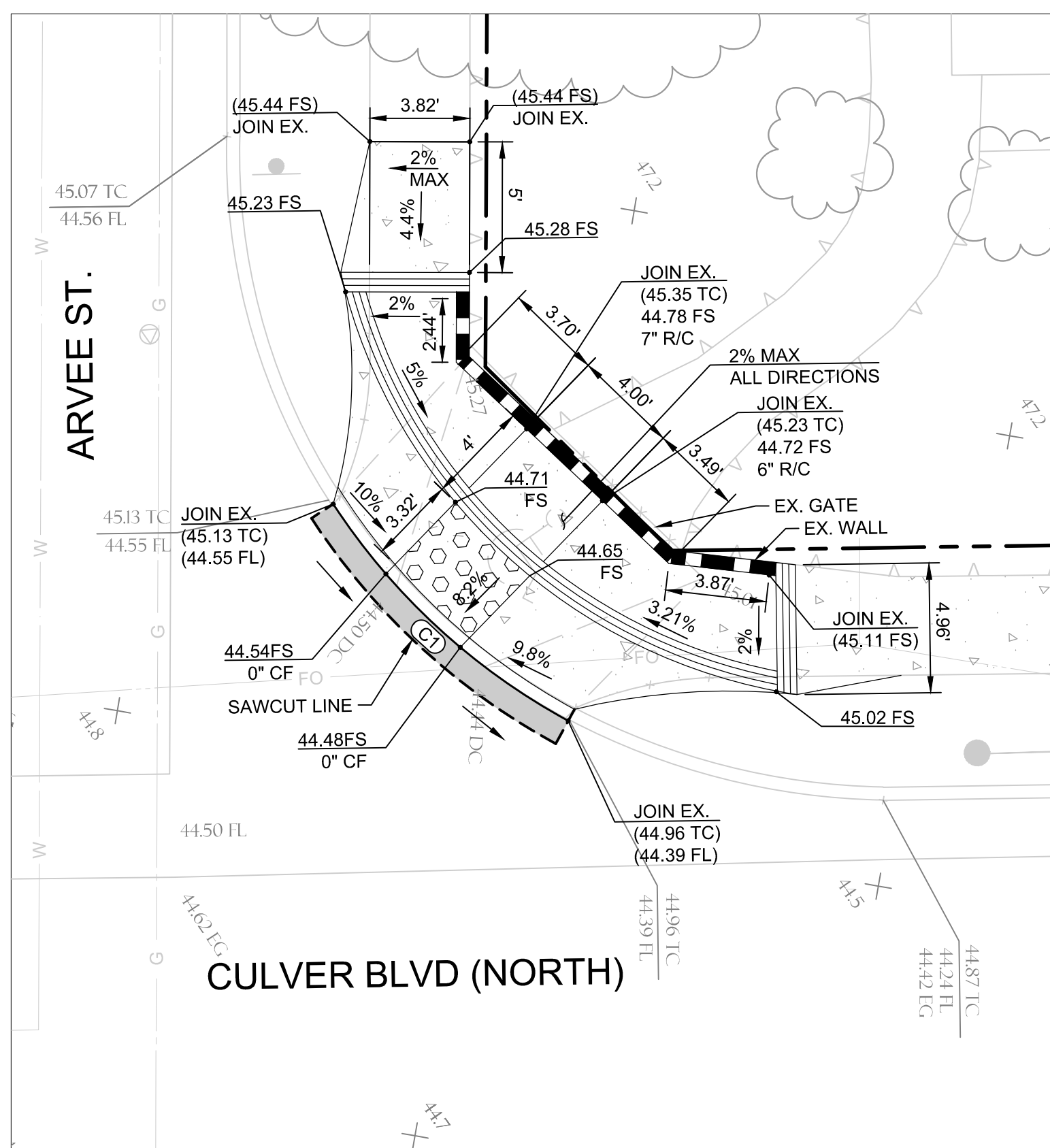


PLANS PREPARED UNDER THE SUPERVISION OF:
 Jason L. Fussel
 JASON L. FUSSEL
 No. 70879 EXP. 06/30/19 DATE
 PROJECT NUMBER # PZ-460
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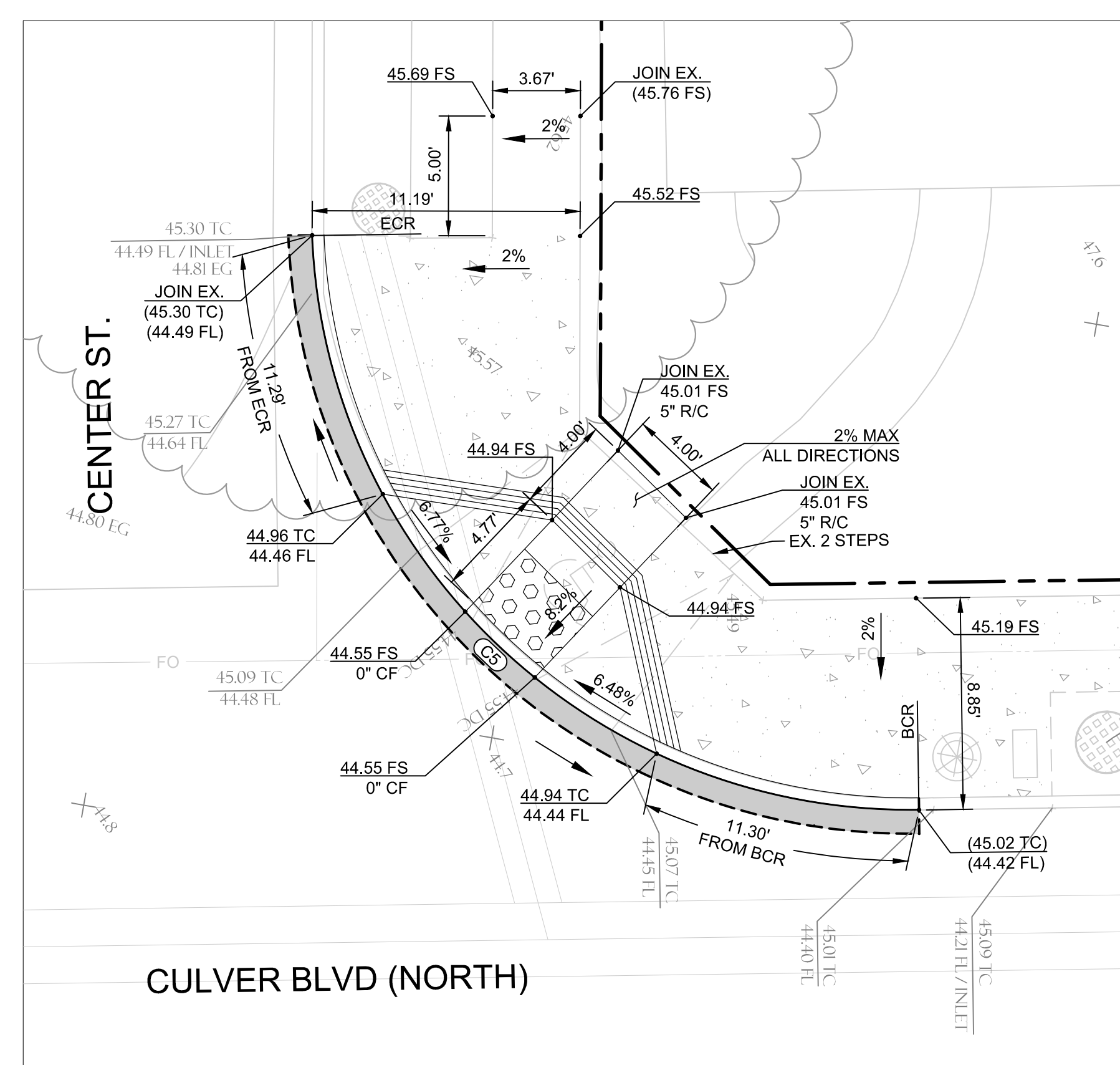
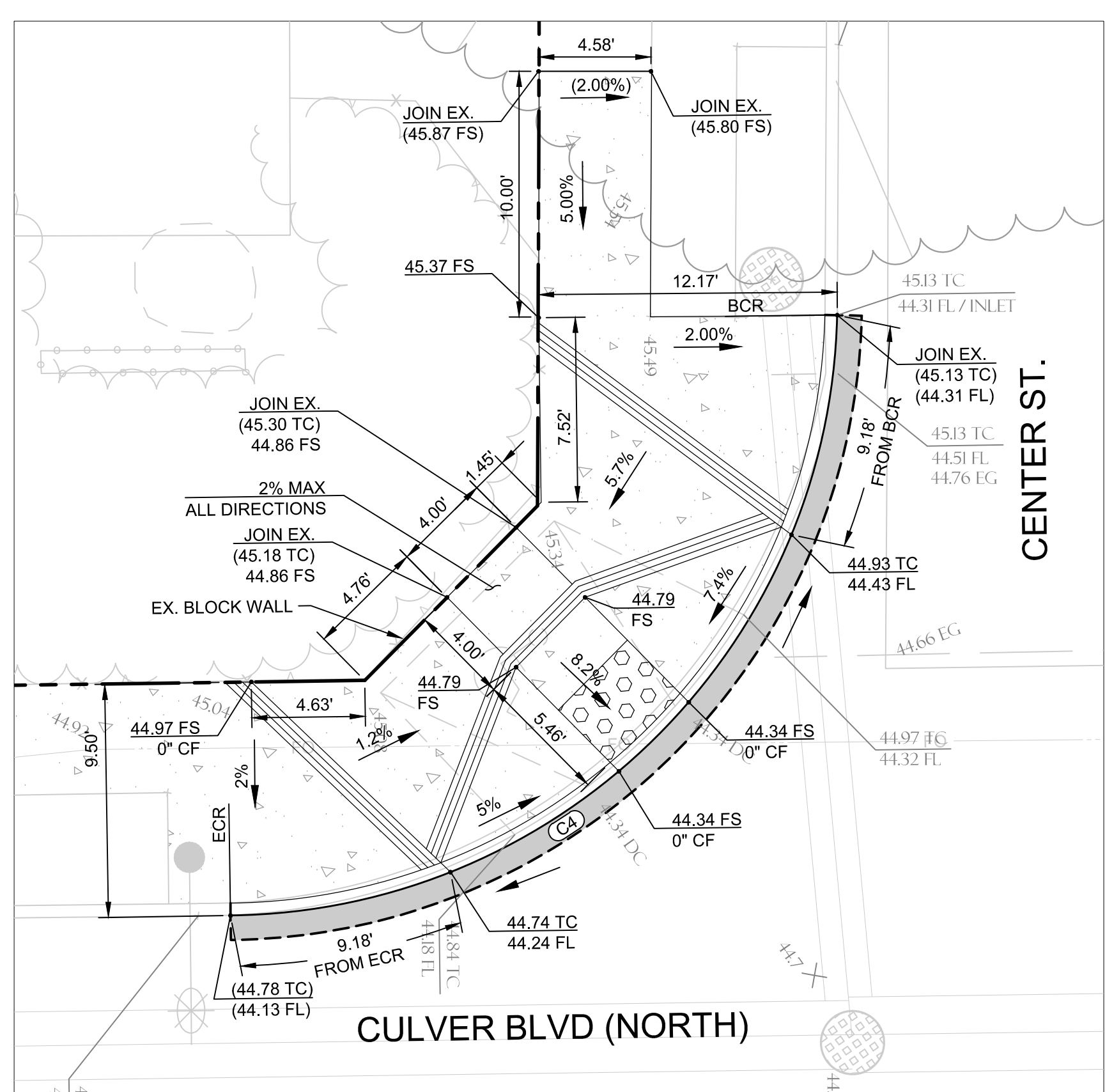
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C2	25.00'	080°11'23"	34.99'	21.05'
C3	25.00'	090°04'08"	39.30'	25.03'
C4	25.00'	088°06'02"	38.44'	24.18'
C5	25.00'	088°31'54"	38.63'	24.37'

CONSTRUCTION NOTES
 (23) ADJUST EXISTING UTILITY BOX TO GRADE.

A CURB RAMP DETAIL
 SCALE: 1"=5'

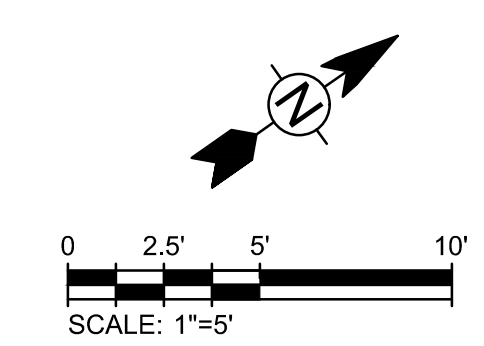
B CURB RAMP DETAIL
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C CURB RAMP DETAIL
 SCALE: 1"=5'



D CURB RAMP DETAIL
 SCALE: 1"=5'

E CURB RAMP DETAIL
 SCALE: 1"=5'



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CONSTRUCTION DETAILS

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 SHEET 22 OF 85 SHEETS

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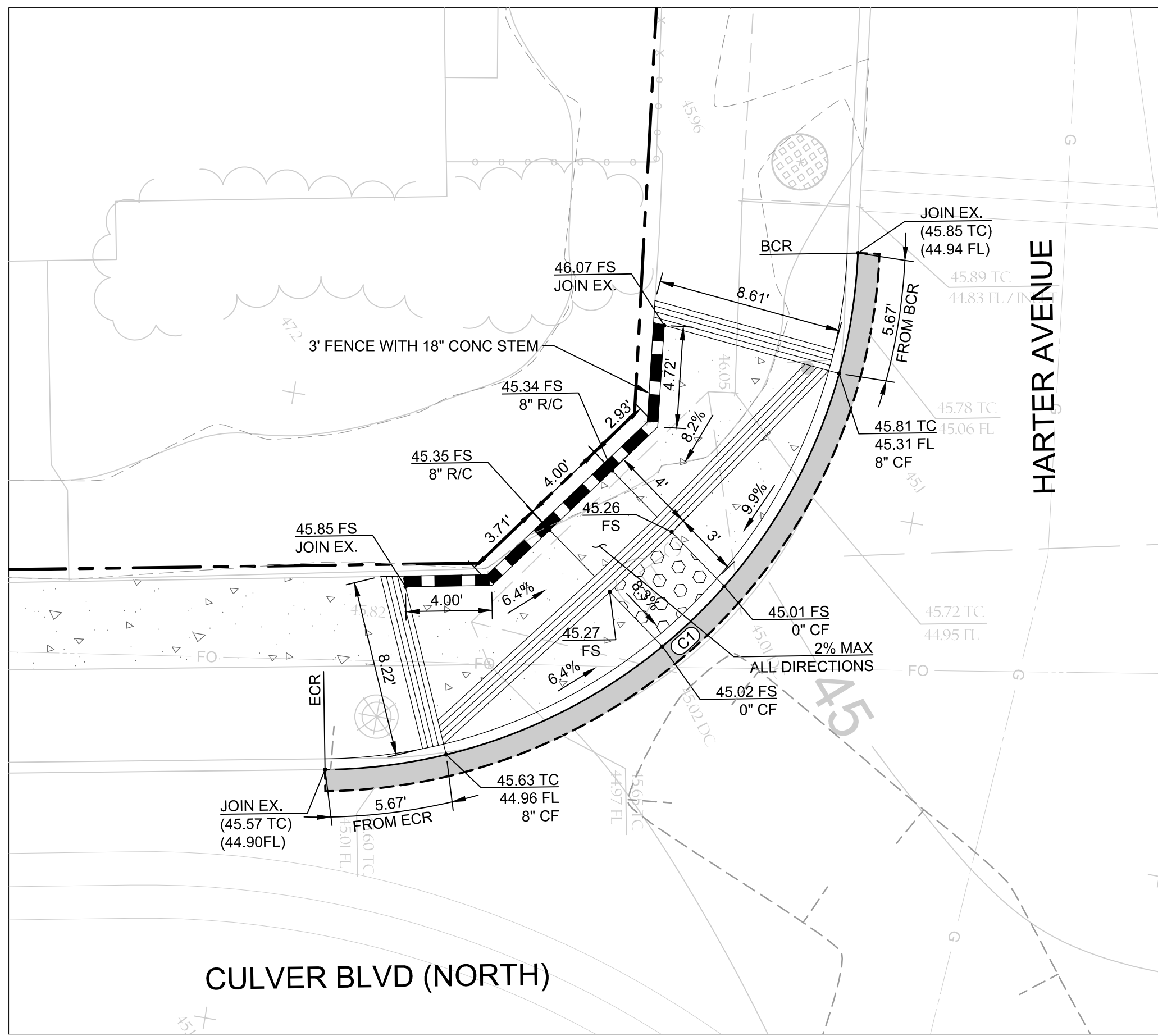
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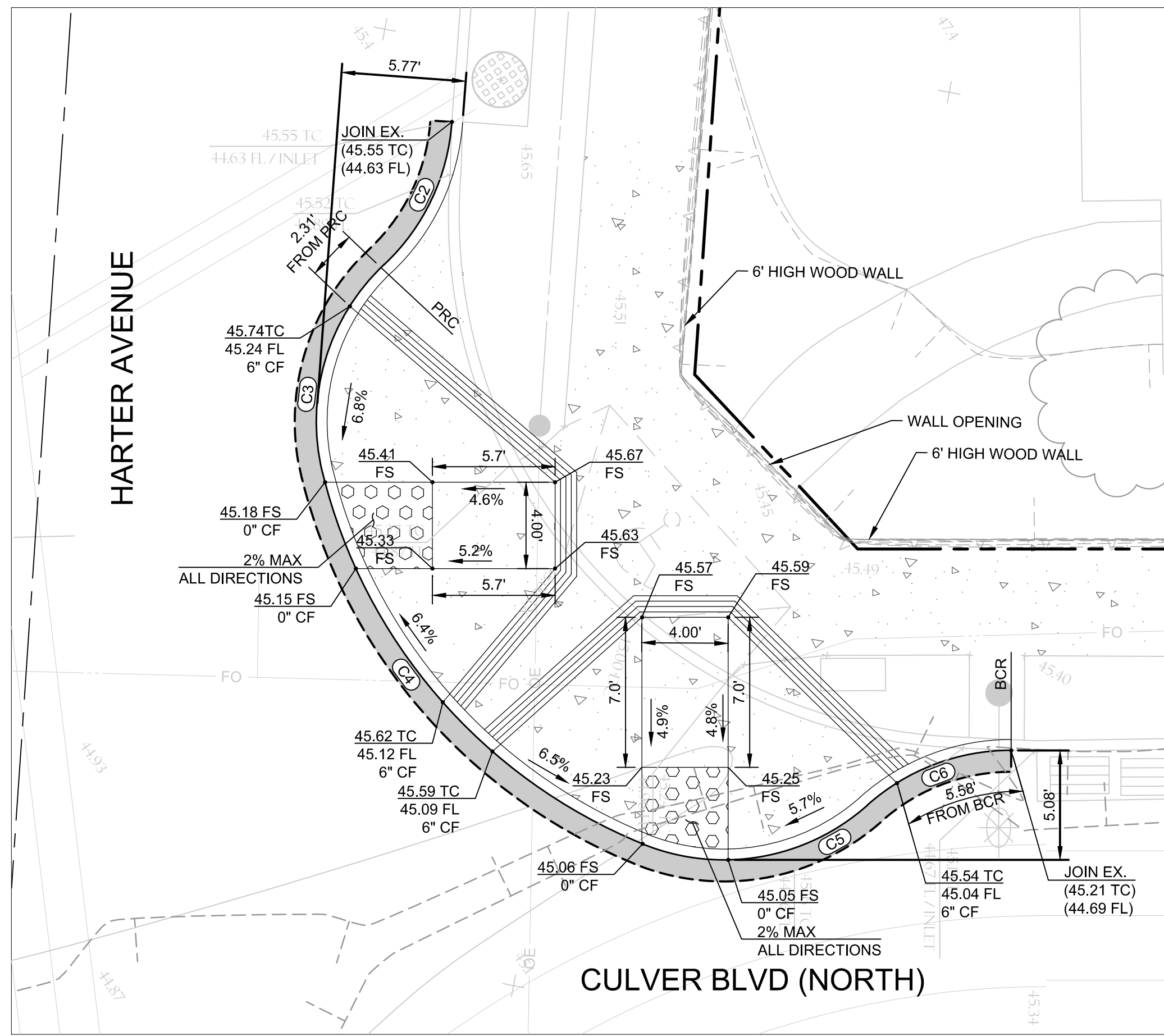
NO.	REVISION	BY	APPR.	DATE

5049-212

Bar Measures 1 inch



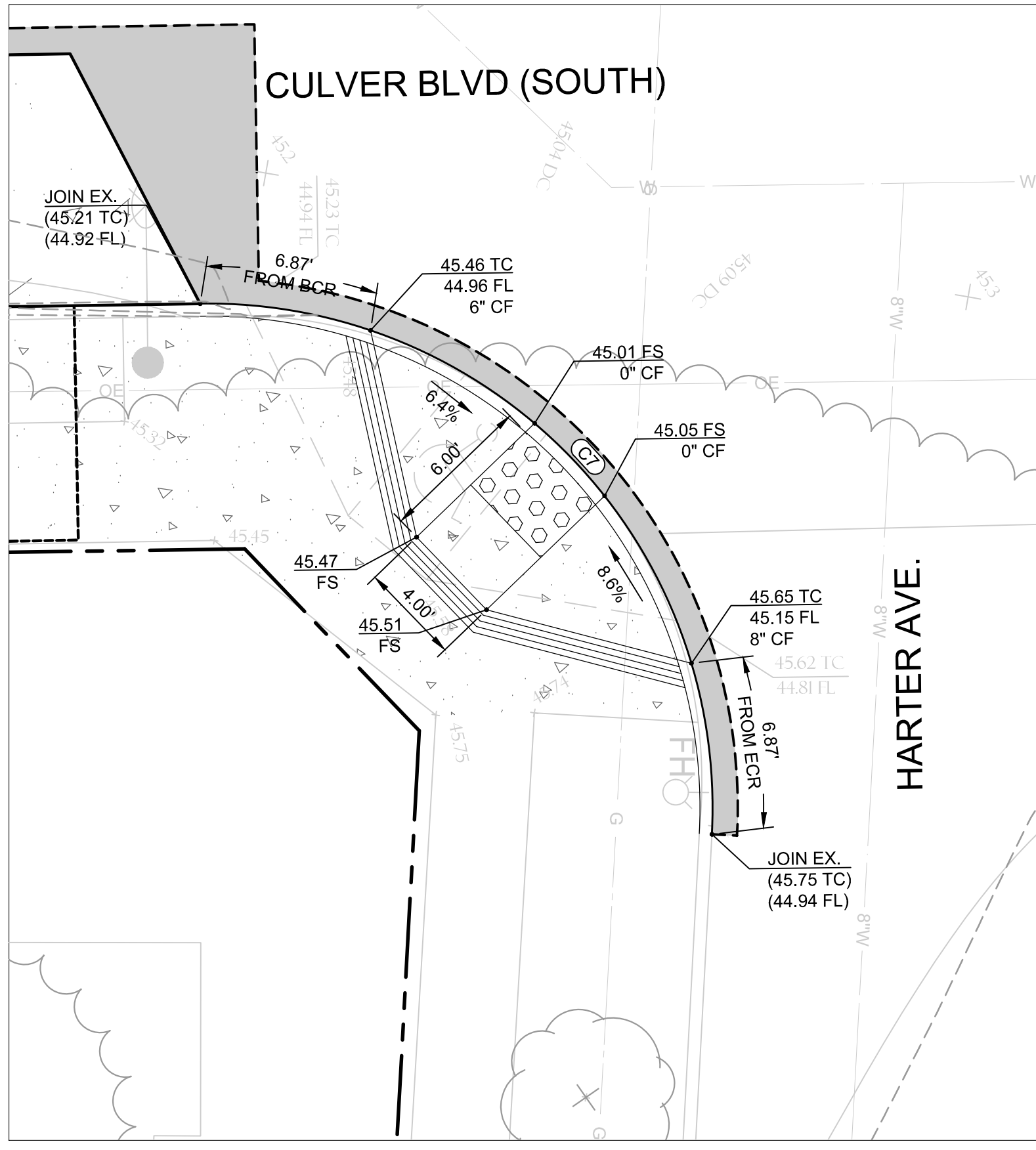
F CURB RAMP DETAIL
SCALE: 1"=5'



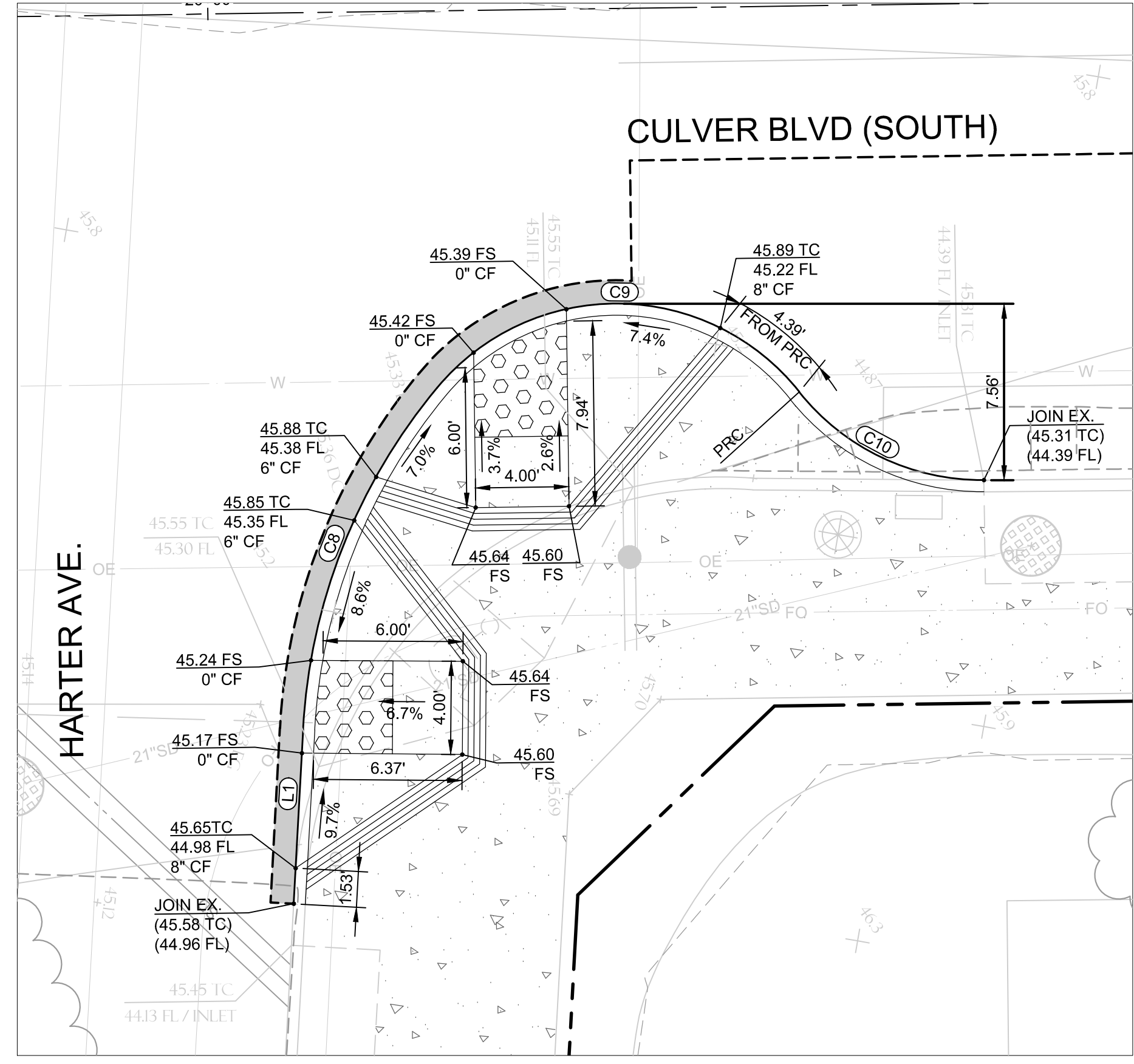
G CURB RAMP DETAIL
SCALE: 1"=5'

LINE TABLE		
LENGTH	DIRECTION	
L1	7.49'	S51° 53' 48"E

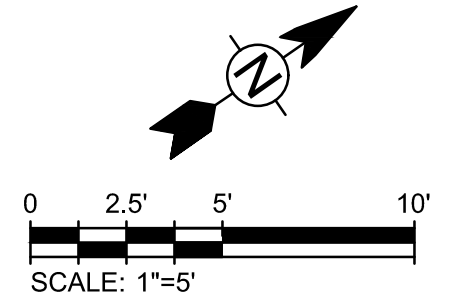
CURVE TABLE				
RADIUS	DELTA	LENGTH	TANGENT	
C1	25.00'	086°59'06"	37.95'	23.72'
C2	10.00'	042°52'25"	7.48'	3.93'
C3	10.00'	060°30'11"	10.56'	5.83'
C4	25.00'	054°03'03"	23.58'	12.75'
C5	10.00'	063°57'12"	11.16'	6.24'
C6	10.00'	041°44'39"	7.29'	3.81'
C7	20.00'	093°56'57"	32.79'	21.43'
C8	25.00'	036°40'45"	16.00'	8.29'
C9	10.00'	101°44'58"	17.76'	12.29'
C10	10.00'	052°01'52"	9.08'	4.88'



H CURB RAMP DETAIL
SCALE: 1"=5'



I CURB RAMP DETAIL
SCALE: 1"=5'

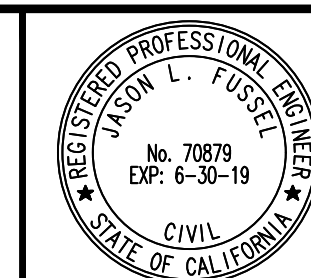
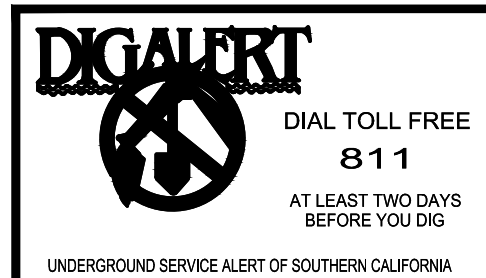


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CIVIL DETAILS

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SHEET
C-21
SHEET 23 OF 85 SHEETS



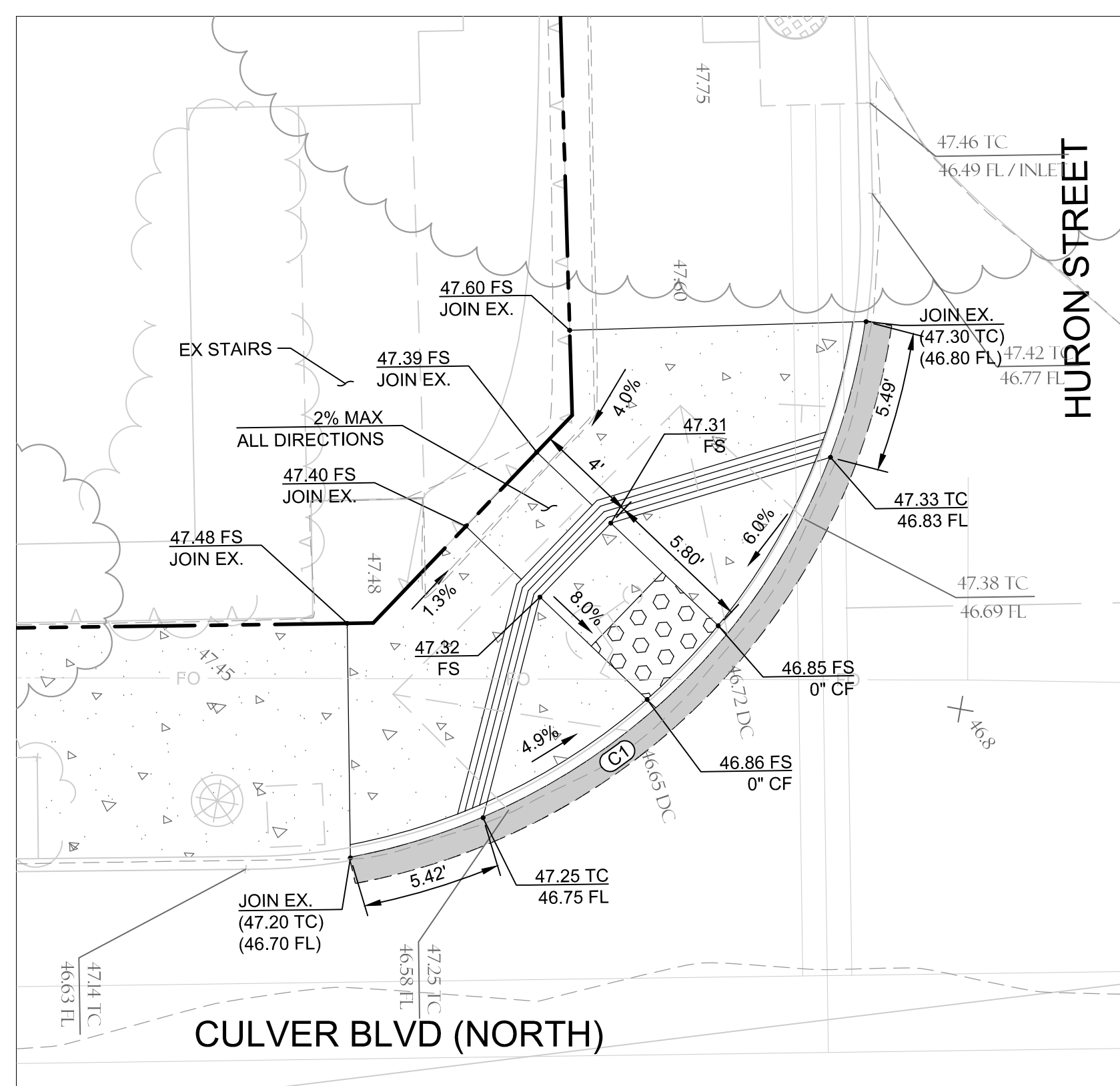
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Jason Fusssel 05/20/2019
DATE
JASON FUSSEL RCE-70879 EXP. 06/30/19
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

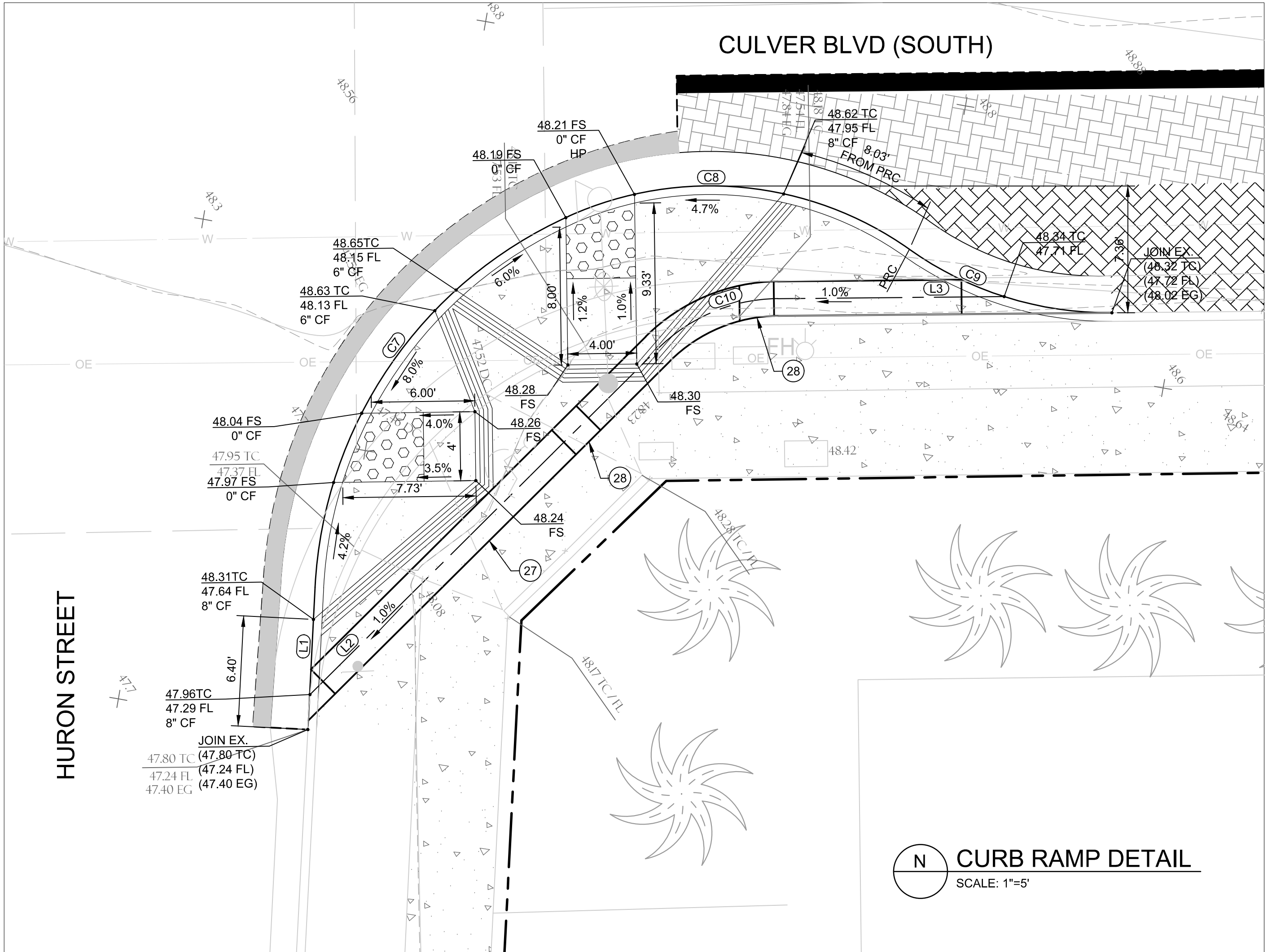
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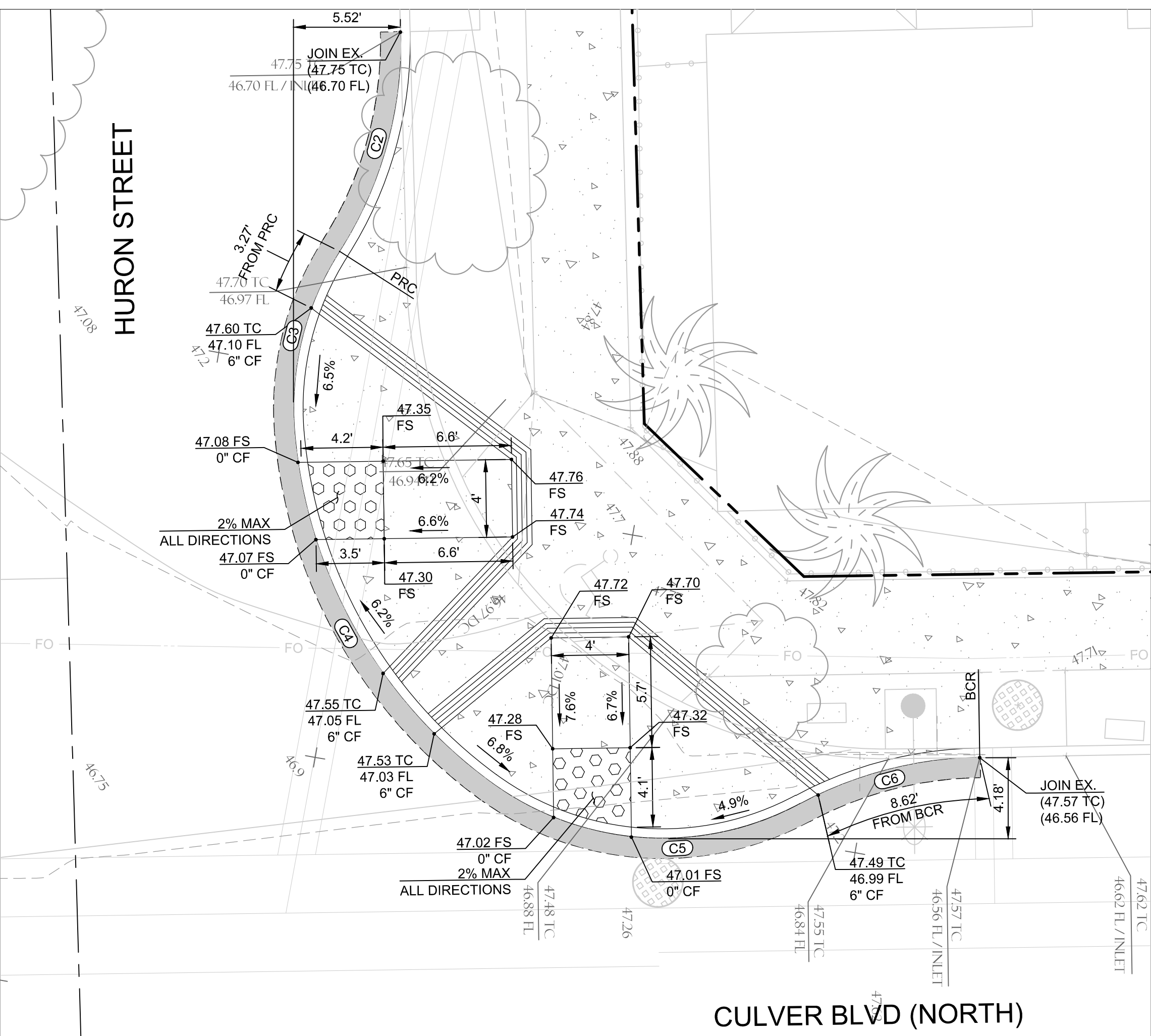
5049-212



L CURB RAMP DETAIL
SCALE: 1"=5'



N CURB RAMP DETAIL
SCALE: 1"=5'

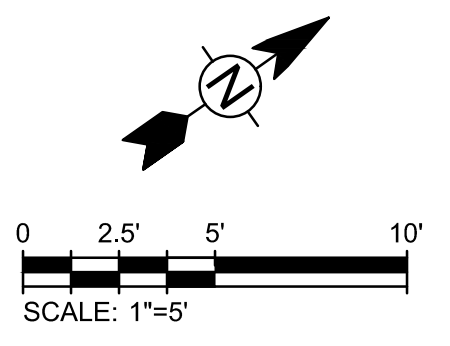


M CURB RAMP DETAIL
SCALE: 1"=5'

LINE TABLE		
	LENGTH	DIRECTION
L1	8.27'	S52° 05' 14"E
L2	28.50'	N09° 49' 29"W
L3	13.13'	N34° 26' 53"E

CURVE TABLE			
	RADIUS	DELTA	TANGENT
C1	25.00'	071°00'29"	30.98'
C2	20.00'	034°07'29"	11.91'
C3	15.00'	037°25'16"	9.80'
C4	25.00'	048°56'47"	21.36'
C5	15.00'	064°33'43"	16.90'
C6	20.00'	027°38'31"	9.65'
C7	25.00'	062°54'24"	27.45'
C8	20.00'	059°29'09"	20.76'
C9	20.00'	035°51'28"	12.52'
C10	10.00'	044°16'22"	7.73'

- CONSTRUCTION NOTES**
- (27) CONSTRUCT PARKWAY DRAIN OVER 12" TREATED SUBGRADE PER SPPWC STD. PLAN 151-2, S-24".
 - (28) CONSTRUCT RECTANGULAR FRAME AND COVER PER SPPWC STD. PLAN 152-2.



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CIVIL DETAILS

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SHEET
C-22
SHEET 24 OF 85 SHEETS

6/5/2019 8:49:50 AM - C:\PROJECTS\IRVINE\154197200-154197-1800\1\CAD\SHETS\C-22-CONSTRUCTION DETAILS.DWG - MCCOLLUM, AUSTIN

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TETRA TECH
www.tetrattech.com
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Irvine, CA 92614
949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:

05/20/2019 DATE

JASON FUSSEL RCE 70879 EXP. 06/30/19

PROJECT NUMBER # PZ-460

DRAWING NO.

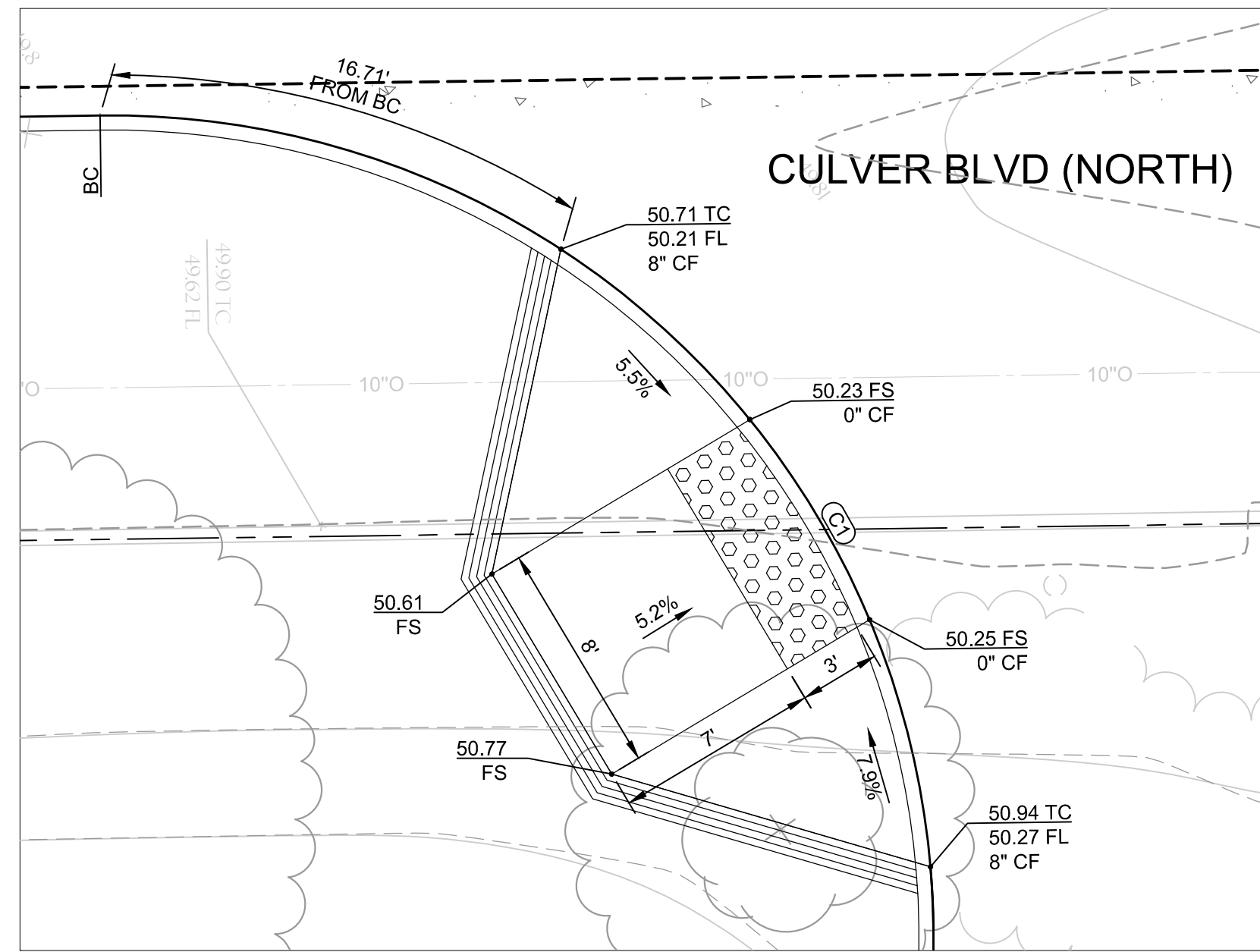
NO.	REVISION	BY	APPR.	DATE

5049-212

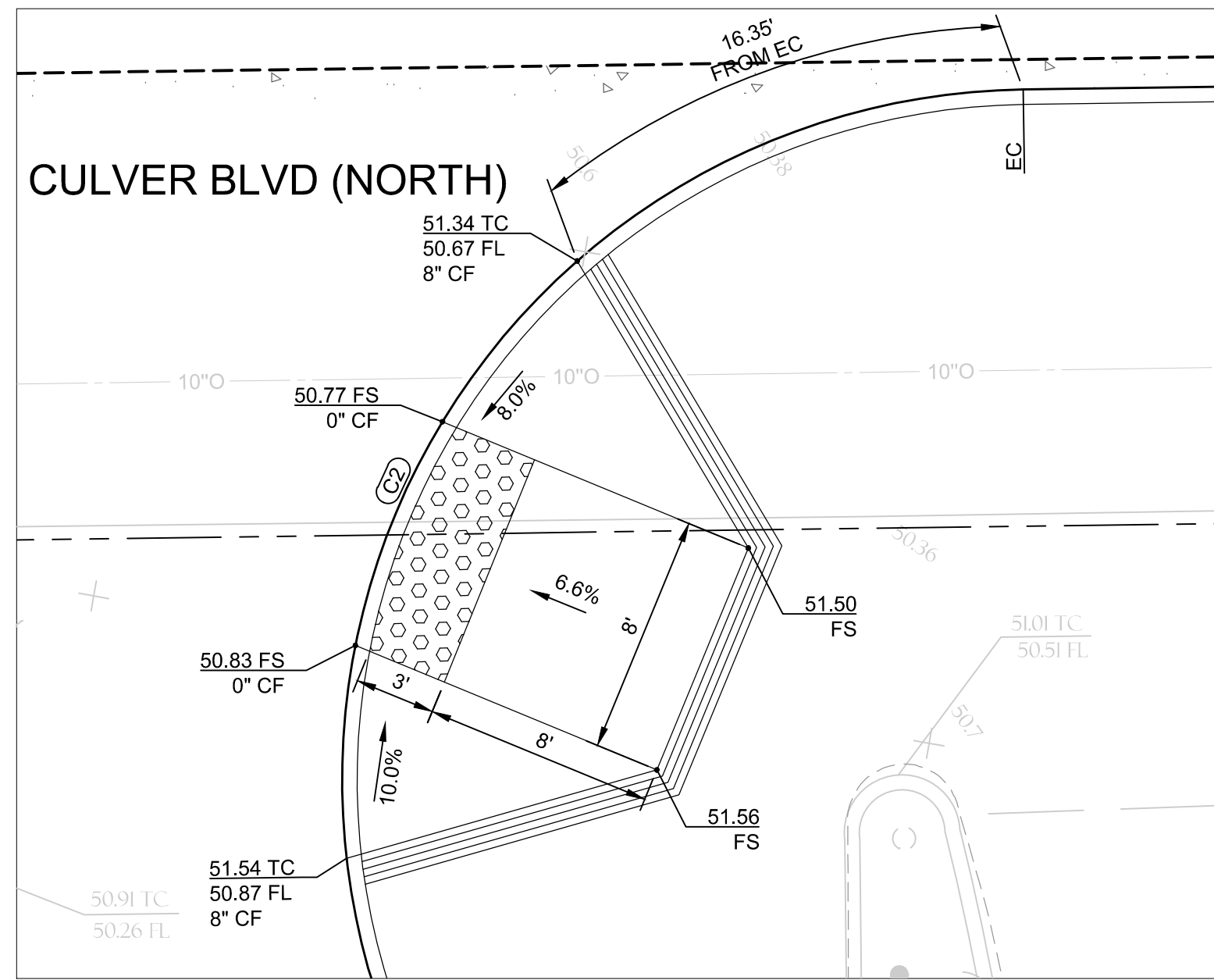
Bar Measures 1 inch

LINE TABLE		
LENGTH	DIRECTION	

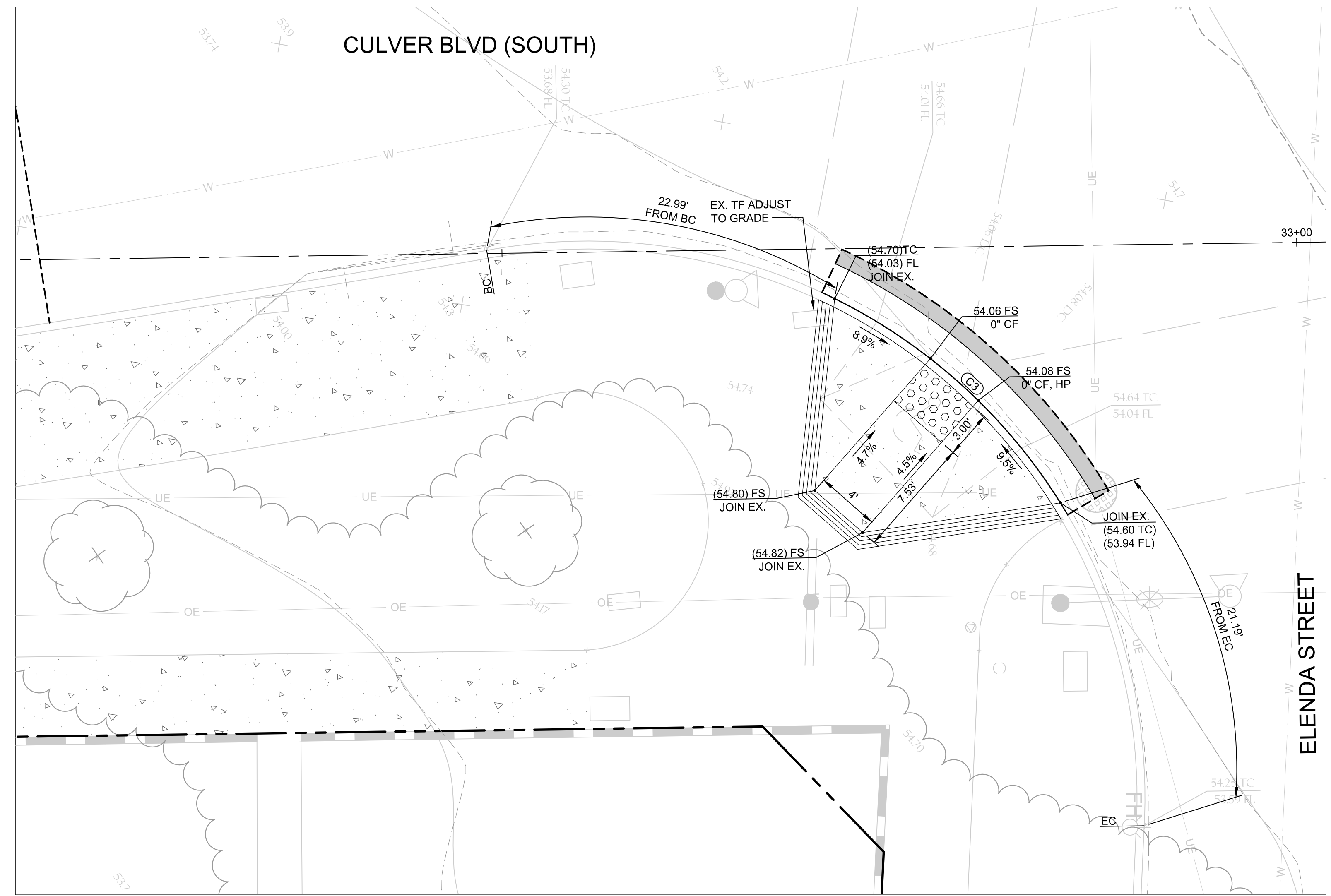
CURVE TABLE				
CURVE	RADIUS	DELTA	LENGTH	TANGENT
C1	28.22'	051°54'21"	25.57'	13.74'
C2	23.03'	055°13'07"	22.19'	12.04'
C3	35.03'	031°43'02"	19.39'	9.95'
C4	36.49'	032°39'21"	20.80'	10.69'



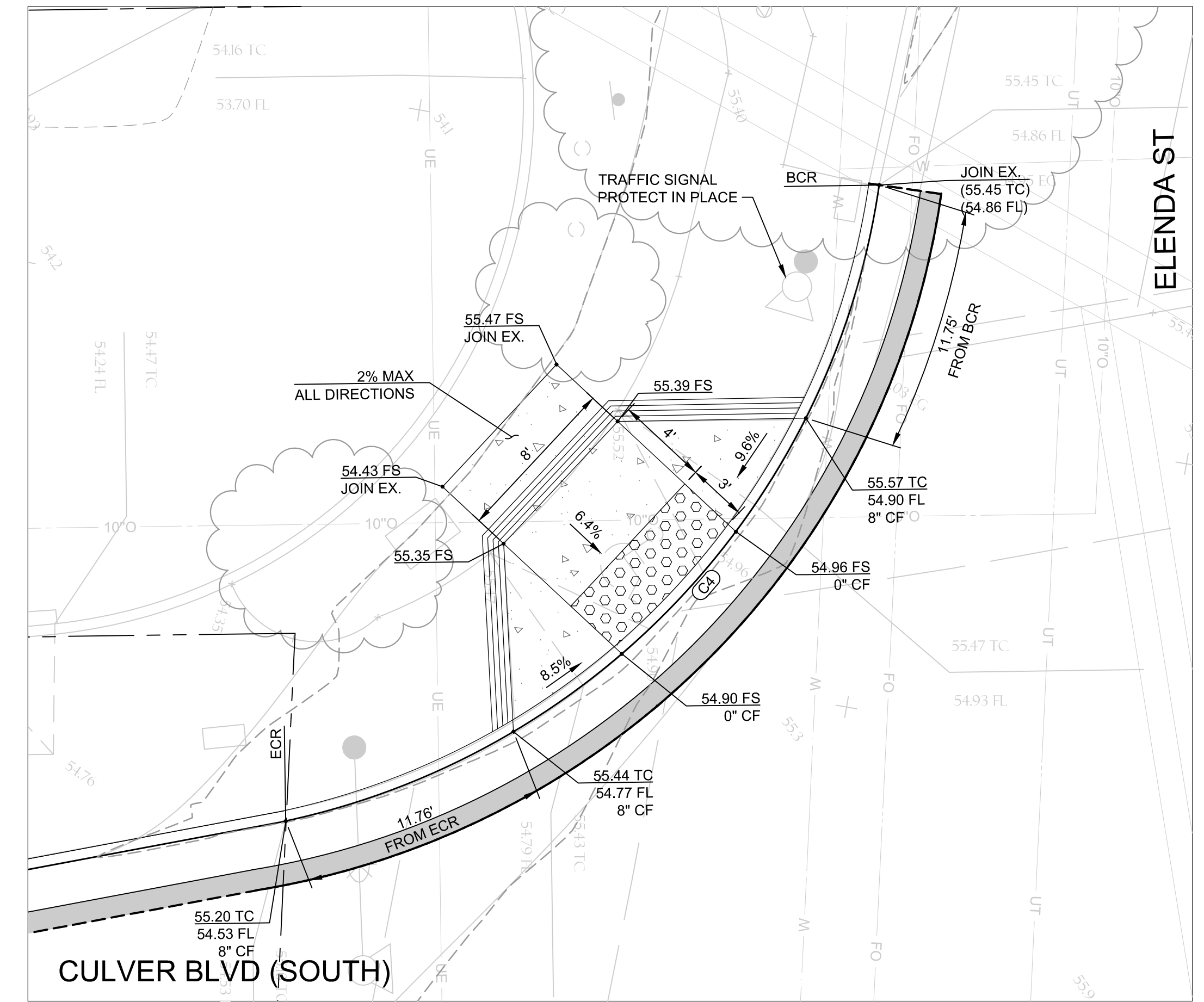
Q CURB RAMP DETAIL
SCALE: 1"=5'



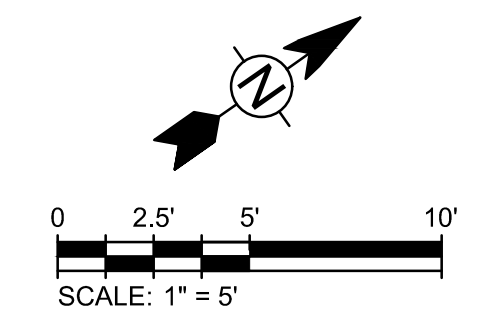
R CURB RAMP DETAIL
SCALE: 1"=5'



S CURB RAMP DETAIL
SCALE: 1"=5'



T CURB RAMP DETAIL
SCALE: 1"=5'

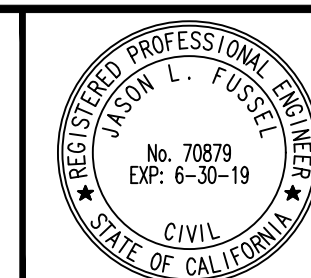
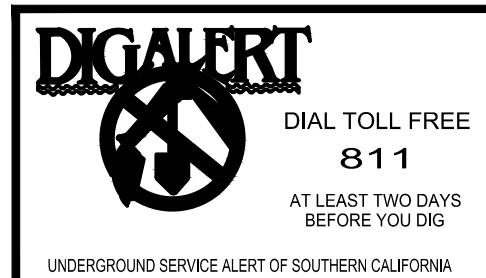


CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELELDA STREET)

CIVIL DETAILS

REVIEWED BY AND APPROVED BY
SEE TITLE SHEET

SHEET
C-23
SHEET 25 OF 85 SHEETS



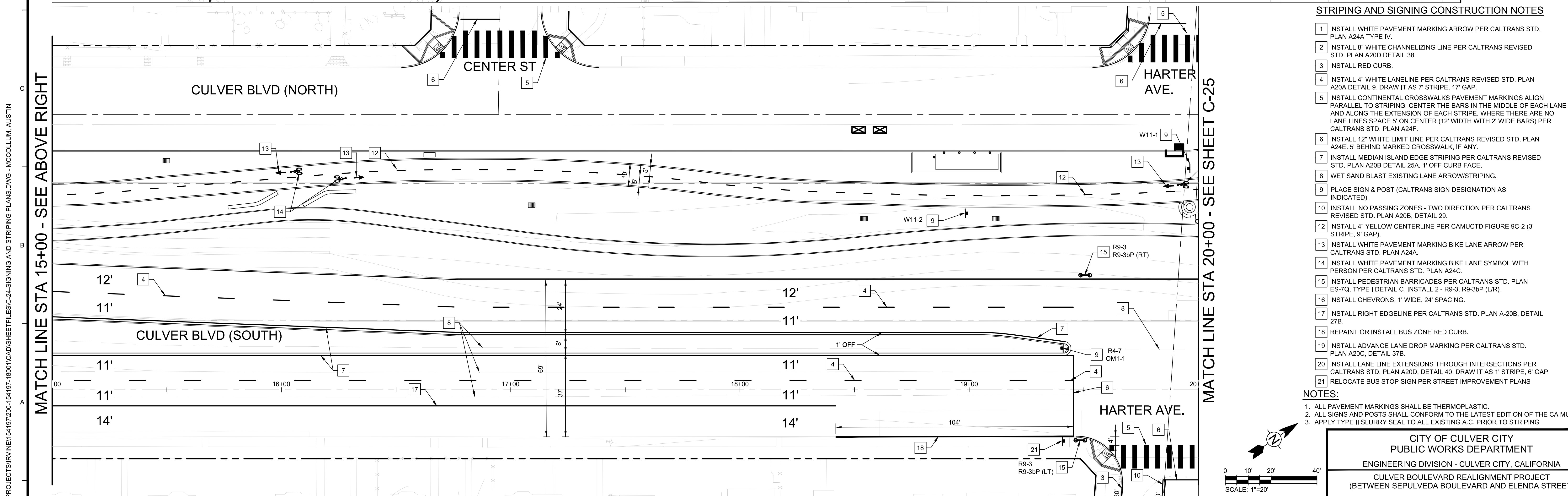
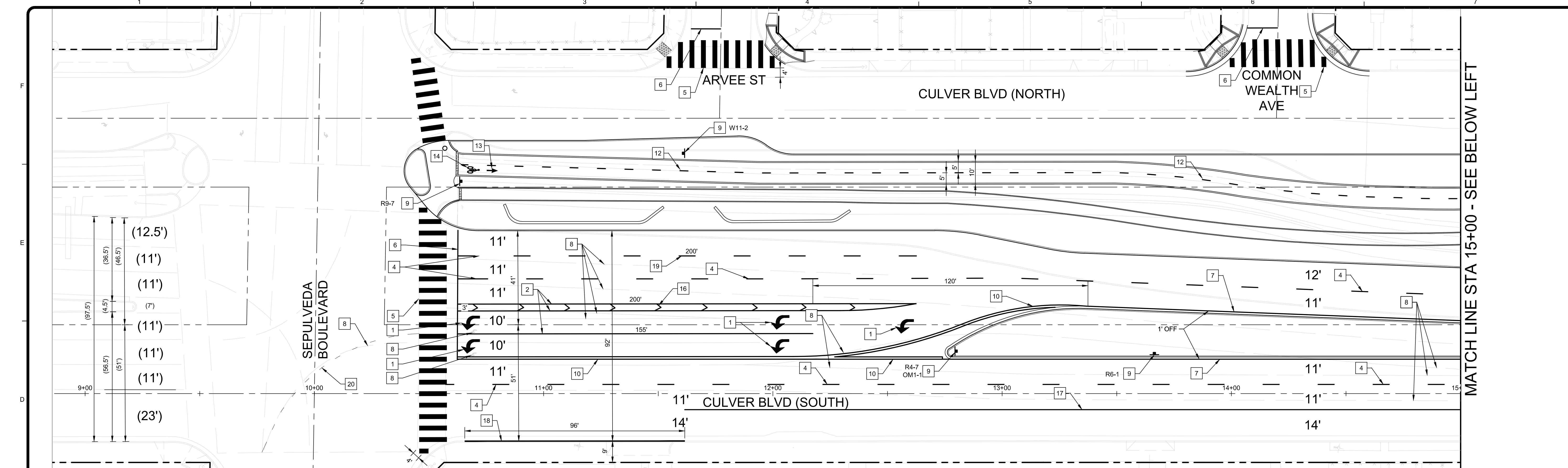
PLANS PREPARED UNDER THE SUPERVISION OF:
Jason L. Fussel 05/20/2019
DATE
JASON FUSSEL RCE 70879 EXP. 06/30/19
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

6/5/2019 8:51:44 AM - C:\PROJECTS\IRVINE\154197200-154197-1800\1\CAD\SH\FILES\C-23-CONSTRUCTION DETAILS.DWG - MCCOLLUM, AUSTIN

5049-212

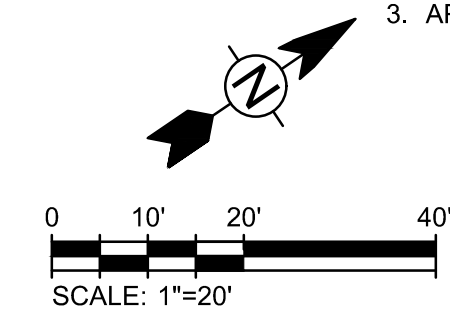
Bar Measures 1 inch



STRIPING AND SIGNING CONSTRUCTION NOTES

1. INSTALL WHITE PAVEMENT MARKING ARROW PER CALTRANS STD. PLAN A24A TYPE IV.
2. INSTALL 8" WHITE CHANNELIZING LINE PER CALTRANS REVISED STD. PLAN A20D DETAIL 38.
3. INSTALL RED CURB.
4. INSTALL 4" WHITE LANELINE PER CALTRANS REVISED STD. PLAN A20A DETAIL 9, DRAW IT AS 7' STRIPE, 17' GAP.
5. INSTALL CONTINENTAL CROSSWALKS PAVEMENT MARKINGS ALIGN PARALLEL TO STRIPING. CENTER THE BARS IN THE MIDDLE OF EACH LANE AND ALONG THE EXTENSION OF EACH STRIPE. WHERE THERE ARE NO LANE LINES SPACE 5' ON CENTER (12' WIDTH WITH 2' WIDE BARS) PER CALTRANS STD. PLAN A24F.
6. INSTALL 12" WHITE LIMIT LINE PER CALTRANS REVISED STD. PLAN A24E, 5' BEHIND MARKED CROSSWALK, IF ANY.
7. INSTALL MEDIAN ISLAND EDGE STRIPING PER CALTRANS REVISED STD. PLAN A20B DETAIL 25A, 1' OFF CURB FACE.
8. WET SAND BLAST EXISTING LANE ARROW/STRIPING.
9. PLACE SIGN & POST (CALTRANS SIGN DESIGNATION AS INDICATED).
10. INSTALL NO PASSING ZONES - TWO DIRECTION PER CALTRANS REVISED STD. PLAN A20B, DETAIL 29.
12. INSTALL 4" YELLOW CENTERLINE PER CAMUCTD FIGURE 9C-2 (3' STRIPE, 9' GAP).
13. INSTALL WHITE PAVEMENT MARKING BIKE LANE ARROW PER CALTRANS STD. PLAN A24A.
14. INSTALL WHITE PAVEMENT MARKING BIKE LANE SYMBOL WITH PERSON PER CALTRANS STD. PLAN A24C.
15. INSTALL PEDESTRIAN BARRICADES PER CALTRANS STD. PLAN ES-7Q, TYPE I DETAIL C. INSTALL 2 - R9-3, R9-3bP (L/R).
16. INSTALL CHEVRONS, 1" WIDE, 24" SPACING.
17. INSTALL RIGHT EDGELINE PER CALTRANS STD. PLAN A-20B, DETAIL 27B.
18. REPAINT OR INSTALL BUS ZONE RED CURB.
19. INSTALL ADVANCE LANE DROP MARKING PER CALTRANS STD. PLAN A20C, DETAIL 37B.
20. INSTALL LANE LINE EXTENSIONS THROUGH INTERSECTIONS PER CALTRANS STD. PLAN A20D, DETAIL 40, DRAW IT AS 1" STRIPE, 6" GAP.
21. RELOCATE BUS STOP SIGN PER STREET IMPROVEMENT PLANS

- NOTES:**
1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
 2. ALL SIGNS AND POSTS SHALL CONFORM TO THE LATEST EDITION OF THE CA MUTCD.
 3. APPLY TYPE II SLURRY SEAL TO ALL EXISTING A.C. PRIOR TO STRIPING



MATCH LINE STA 15+00 - SEE ABOVE RIGHT

MATCH LINE STA 20+00 - SEE SHEET C-25

MATCH LINE STA 15+00 - SEE BELOW LEFT

6/5/2019 8:54:10 AM - C:\PROJECTS\SRVINE\154197200-154197-1800\1\CAD\SHHEETFILES\C-24-SIGNING AND STRIPING PLANS.DWG - MCCOLLUM, AUSTIN

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949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:

JASON FUSSEL RCE-70879 EXP. 06/30/19
DATE

05/20/2019
DATE

PROJECT NUMBER # PZ-460

DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

SIGNING AND STRIPING PLANS

REVIEWED BY AND APPROVED BY
SEE TITLE SHEET

SHEET
C-24
SHEET 26 OF 85 SHEETS

5049-212

Bar Measures 1 inch

6/5/2019 8:56:28 AM - C:\PROJECTS\IRVINE\154197\200-154197-1800\1\CAD\SHSHEETFILES\C-25-SIGNING AND STRIPING PLANS.DWG - MCCOLLUM, AUSTIN

MATCH LINE 20+00 - SEE SHEET C-24

MATCH LINE 25+00 - SEE ABOVE RIGHT

MATCH LINE 25+00 - SEE BELOW LEFT

MATCH LINE 30+00 - SEE SHEET C-26

CULVER BLVD (NORTH)

CULVER BLVD (SOUTH)

CULVER BLVD (NORTH)

CULVER BLVD (SOUTH)

HURON ST

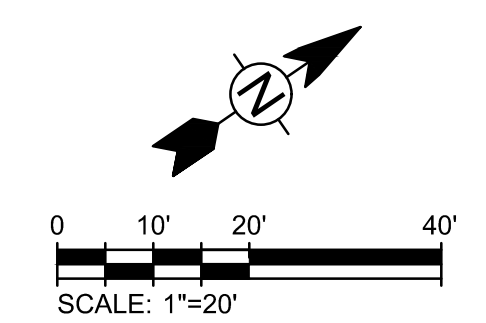
HURON ST

STRIPING AND SIGNING CONSTRUCTION NOTES

- 1 INSTALL WHITE PAVEMENT MARKING ARROW PER CALTRANS STD. PLAN A24A TYPE IV.
- 2 INSTALL 8" WHITE CHANNELIZING LINE PER CALTRANS REVISED STD. PLAN A20D DETAIL 38.
- 3 INSTALL RED CURB.
- 4 INSTALL 4" WHITE LANELINE PER CALTRANS REVISED STD. PLAN A20A DETAIL 9, DRAW IT AS 7' STRIPE, 17' GAP.
- 5 INSTALL CONTINENTAL CROSSWALKS PAVEMENT MARKINGS ALIGN PARALLEL TO STRIPING. CENTER THE BARS IN THE MIDDLE OF EACH STRIPE AND ALONG THE EXTENSION OF EACH STRIPE. WHERE THERE ARE NO LANE LINES SPACE 5' ON CENTER (12' WIDTH WITH 2" WIDE BARS) PER CALTRANS STD. PLAN A24F.
- 6 INSTALL 12" WHITE LIMIT LINE PER CALTRANS REVISED STD. PLAN A24E, 5' BEHIND MARKED CROSSWALK, IF ANY.
- 7 INSTALL MEDIAN ISLAND EDGE STRIPING PER CALTRANS REVISED STD. PLAN A20B DETAIL 25A, 1' OFF CURB FACE.
- 8 WET SAND BLAST EXISTING LANE ARROW/STRIPING.
- 9 PLACE SIGN & POST (CALTRANS SIGN DESIGNATION AS INDICATED).
- 10 INSTALL NO PASSING ZONES - TWO DIRECTION PER CALTRANS REVISED STD. PLAN A20B, DETAIL 29.
- 11 INSTALL TWO-WAY LEFT TURN LANES PER CALTRANS REVISED STD. PLAN A20B, DETAIL 32.
- 12 INSTALL 4" YELLOW CENTERLINE PER CAMUCTD FIGURE 9C-2 (3' STRIPE, 9' GAP).
- 13 INSTALL WHITE PAVEMENT MARKING BIKE LANE ARROW PER CALTRANS STD. PLAN A24A.
- 14 INSTALL WHITE PAVEMENT MARKING BIKE LANE SYMBOL WITH PERSON PER CALTRANS STD. PLAN A24C.
- 15 INSTALL PEDESTRIAN BARRICADES PER CALTRANS STD. PLAN ES-7Q, TYPE I DETAIL C. INSTALL 2 - R9-3, R9-3bP (L/R).
- 17 INSTALL RIGHT EDGELINE PER CALTRANS STD. PLAN A-20B, DETAIL 27B.
- 18 REPAINT OR INSTALL BUS ZONE RED CURB.
- 21 RELOCATE BUS STOP SIGN PER STREET IMPROVEMENT PLANS

NOTES:

- 1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
- 2. ALL SIGNS AND POSTS SHALL CONFORM TO THE LATEST EDITION OF THE CA MUTCD.
- 3. APPLY TYPE II SLURRY SEAL TO ALL EXISTING A.C. PRIOR TO STRIPING.

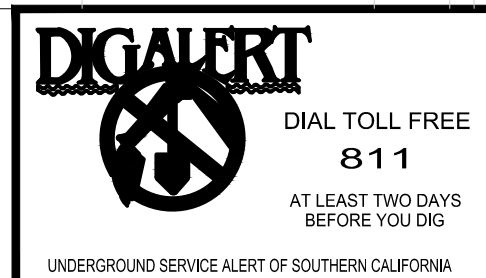


CITY OF CULVER CITY
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
 CULVER BOULEVARD REALIGNMENT PROJECT
 (BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

SIGNING AND STRIPING PLANS

REVIEWED BY AND APPROVED BY
 SEE TITLE SHEET

SHEET
 C-25
 SHEET 27 OF 85 SHEETS



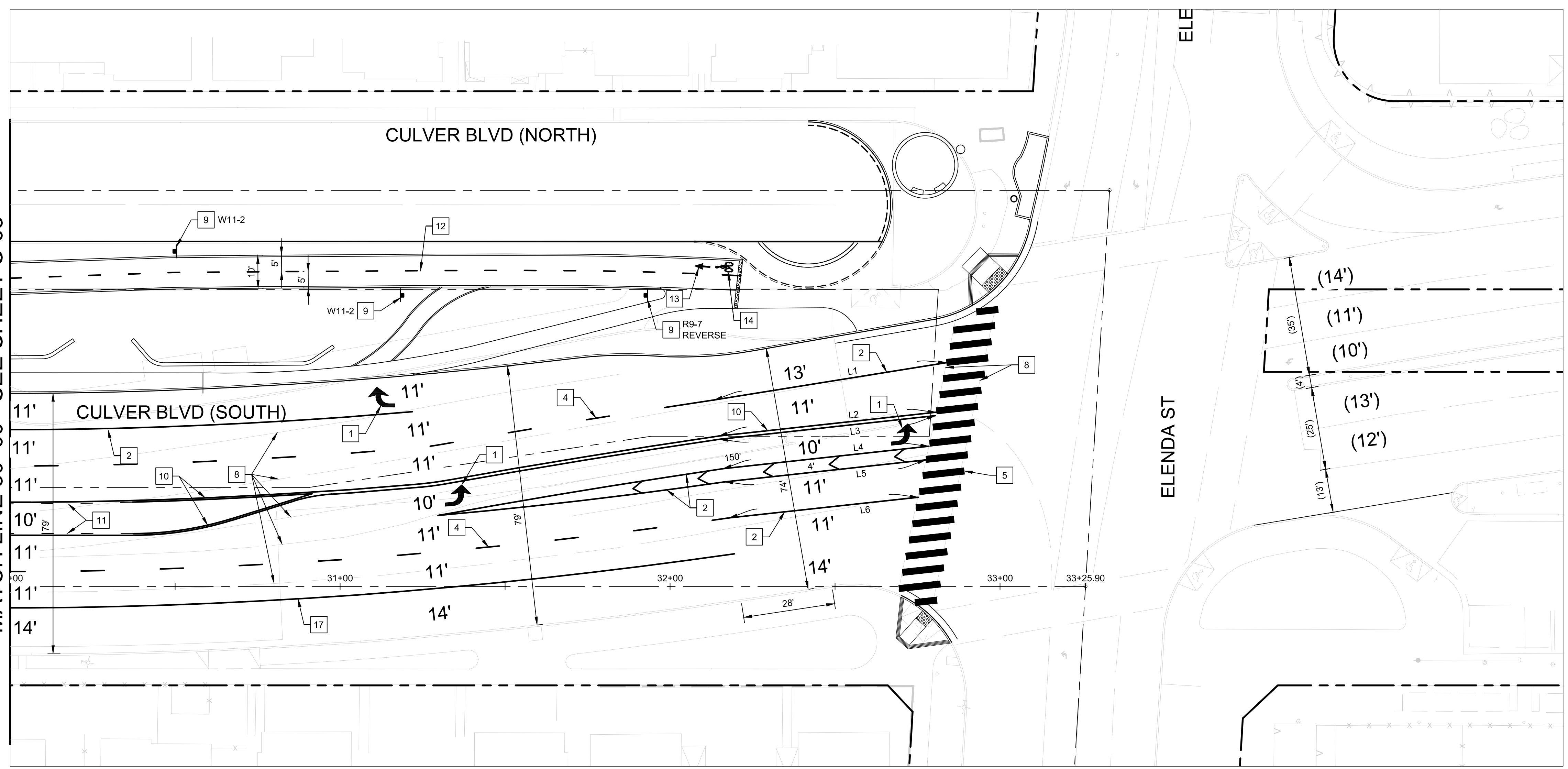
PLANS PREPARED UNDER THE SUPERVISION OF:
 JASON FUSSEL RCE-70879 EXP. 06/30/19 DATE
 PROJECT NUMBER # PZ-460
 DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

5049-212

Bar Measures 1 inch

MATCH LINE 30+00 - SEE SHEET C-03



STRIPING AND SIGNING CONSTRUCTION NOTES

1. INSTALL WHITE PAVEMENT MARKING ARROW PER CALTRANS STD. PLAN A24A TYPE IV.
2. INSTALL 8" WHITE CHANNELIZING LINE PER CALTRANS REVISED STD. PLAN A20D DETAIL 38.
4. INSTALL 4" WHITE LANELINE PER CALTRANS REVISED STD. PLAN A20A DETAIL 9. DRAW IT AS 7' STRIPE, 17' GAP.
5. INSTALL CONTINENTAL CROSSWALKS PAVEMENT MARKINGS ALIGN PARALLEL TO STRIPING. CENTER THE BARS IN THE MIDDLE OF EACH LANE AND ALONG THE EXTENSION OF EACH STRIPE. WHERE THERE ARE NO LANE LINES SPACE 5' ON CENTER (12' WIDTH WITH 2' WIDE BARS) PER CALTRANS STD. PLAN A24F.
8. WET SAND BLAST EXISTING LANE ARROW/STRIPING.
9. PLACE SIGN & POST (CALTRANS SIGN DESIGNATION AS INDICATED).
10. INSTALL NO PASSING ZONES - TWO DIRECTION PER CALTRANS REVISED STD. PLAN A20B, DETAIL 29.
11. INSTALL TWO-WAY LEFT TURN LANES PER CALTRANS REVISED STD. PLAN A20B, DETAIL 32.
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13. INSTALL WHITE PAVEMENT MARKING BIKE LANE ARROW PER CALTRANS STD. PLAN A24A.
14. INSTALL WHITE PAVEMENT MARKING BIKE LANE SYMBOL WITH PERSON PER CALTRANS STD. PLAN A24C.

NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
2. ALL SIGNS AND POSTS SHALL CONFORM TO THE LATEST EDITION OF THE CA MUTCD.
3. APPLY TYPE II SLURRY SEAL TO ALL EXISTING A.C. PRIOR TO STRIPING.

LINE #	LENGTH	BEARING
L1	71.30'	N 25°05'05" E
L2	66.21'	N 27°59'25" E
L3	65.86'	N 27°59'25" E
L4	62.75'	N 27°59'25" E
L5	61.37'	N 27°59'25" E
L6	57.59'	N 27°59'25" E

R1-1

R4-7

R6-1

R9-3

R9-3bP (LT/RT)

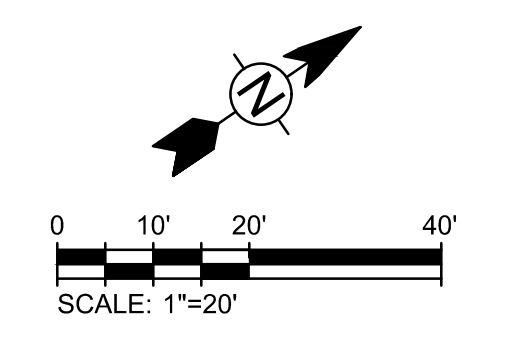
R9-7

R9-7 REVERSE

W11-1

OM1-1

W11-2



CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELEMDA STREET)

SIGNING AND STRIPING PLANS

REVIEWED BY AND APPROVED BY: SEE TITLE SHEET

SHEET C-26
SHEET 28 OF 85 SHEETS

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949-809-5000 (P), 949-809-5010 (F)

PLANS PREPARED UNDER THE SUPERVISION OF:		DATE	
 JASON FUSSEL RCE 70879 EXP. 06/30/19		05/20/2019	
PROJECT NUMBER # PZ-460			
DRAWING NO.	NO.	REVISION	BY APPR. DATE

6/5/2019 8:58:18 AM - C:\PROJECTS\IRVINE\154197\200-154197-1800\1\CAD\SHETS\C-26-SIGNING AND STRIPING PLANS.DWG - MCCOLLUM, AUSTIN

5049-212

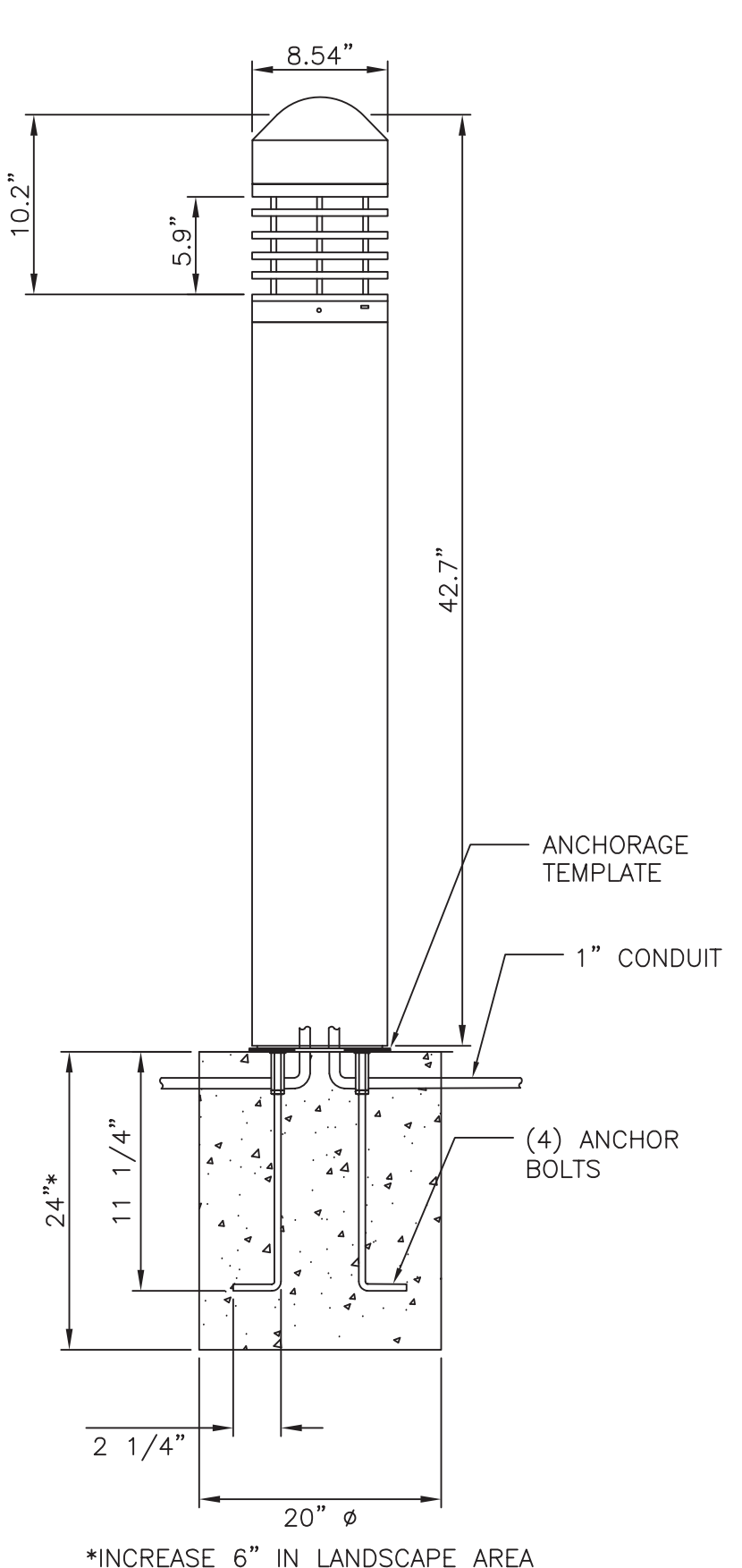
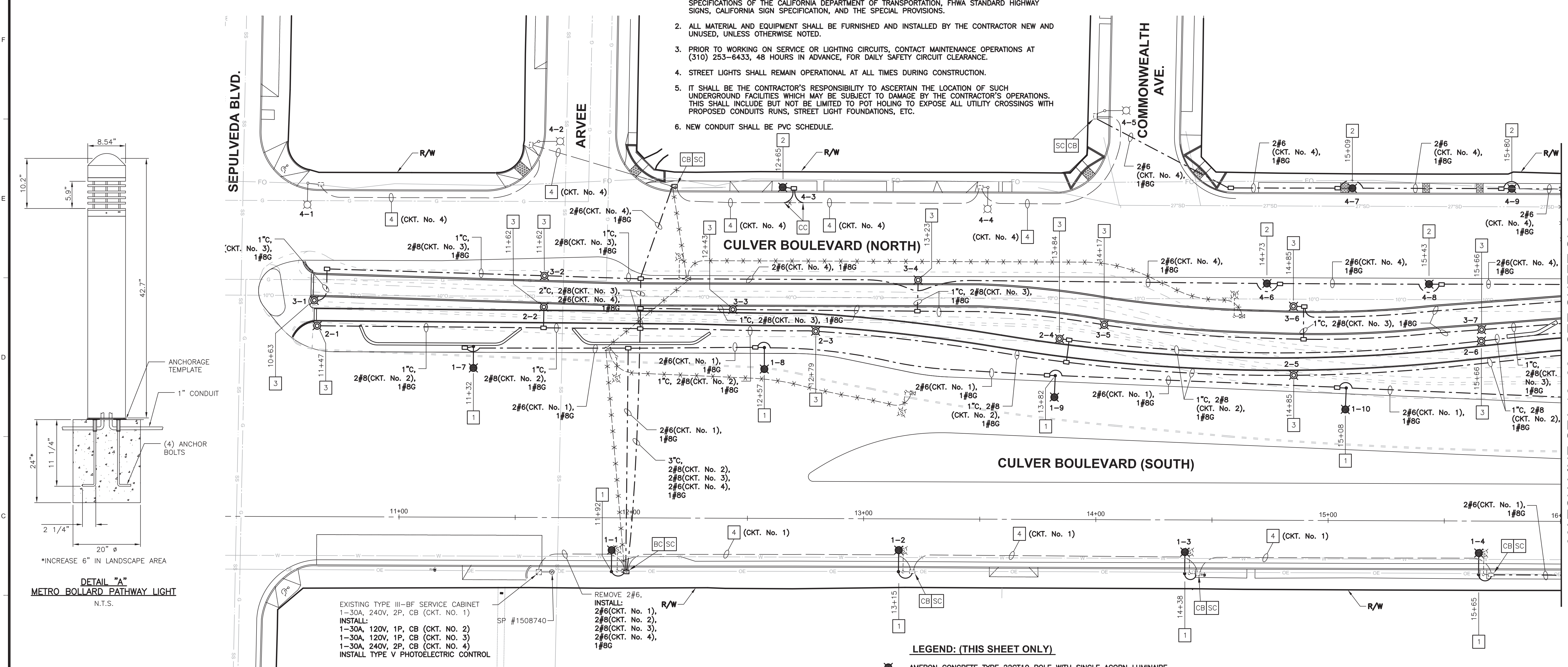
Bar Measures 1 inch

GENERAL NOTES (SHEETS SL-1 TO SL-4)

1. ALL MATERIAL AND WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CALIFORNIA MUTCD), STANDARD PLANS AND STANDARD SPECIFICATIONS OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, FHWA STANDARD HIGHWAY SIGNS, CALIFORNIA SIGN SPECIFICATION, AND THE SPECIAL PROVISIONS.
2. ALL MATERIAL AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR NEW AND UNUSED, UNLESS OTHERWISE NOTED.
3. PRIOR TO WORKING ON SERVICE OR LIGHTING CIRCUITS, CONTACT MAINTENANCE OPERATIONS AT (310) 253-6433, 48 HOURS IN ADVANCE, FOR DAILY SAFETY CIRCUIT CLEARANCE.
4. STREET LIGHTS SHALL REMAIN OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE LOCATION OF SUCH UNDERGROUND FACILITIES WHICH MAY BE SUBJECT TO DAMAGE BY THE CONTRACTOR'S OPERATIONS. THIS SHALL INCLUDE BUT NOT BE LIMITED TO POT HOLING TO EXPOSE ALL UTILITY CROSSINGS WITH PROPOSED CONDUITS RUNS, STREET LIGHT FOUNDATIONS, ETC.
6. NEW CONDUIT SHALL BE PVC SCHEDULE.

GENERAL NOTES (SHEETS SL-1 TO SL-4) (CONT.)

7. ALL PULL BOX SHALL BE No. 5 UNLESS NOTED OTHERWISE.



DETAIL "A"
METRO BOLLARD PATHWAY LIGHT
N.T.S.

EXISTING TYPE III-BF SERVICE CABINET
1-30A, 240V, 2P, CB (CKT. No. 1)
INSTALL:
1-30A, 120V, 1P, CB (CKT. No. 2)
1-30A, 120V, 1P, CB (CKT. No. 3)
1-30A, 240V, 2P, CB (CKT. No. 4)
INSTALL TYPE V PHOTOELECTRIC CONTROL

REMOVE 2#6,
INSTALL:
2#6(CKT. No. 1),
2#8(CKT. No. 2),
2#8(CKT. No. 3),
2#6(CKT. No. 4),
1#8G

WIRING DIAGRAM LEGEND: (THIS SHEET ONLY)

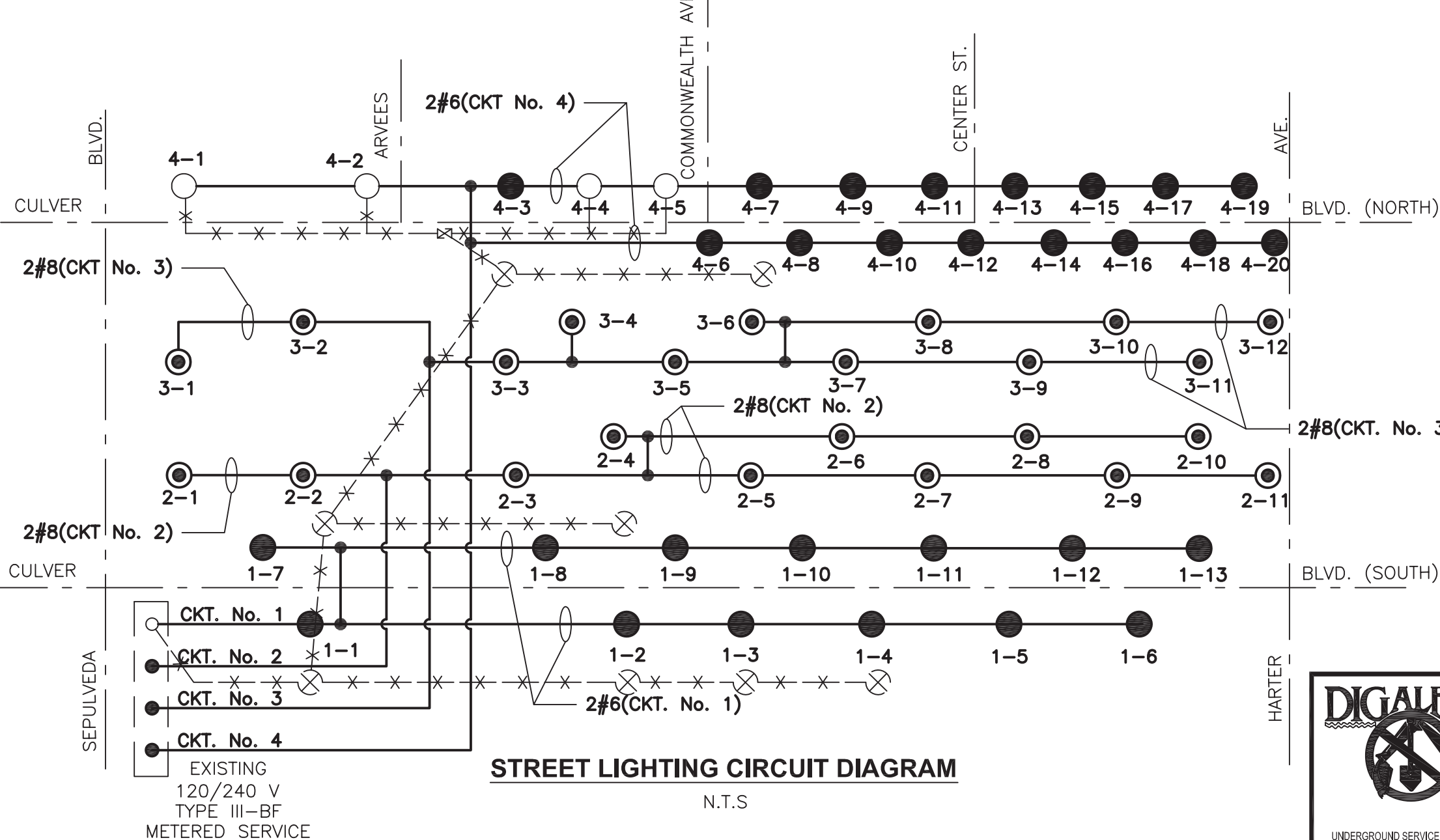
- EXIST SPLICE
- EXISTING LUMINAIRE TO REMAIN.
- NEW SPLICE
- CONDUCTORS (2#6 WIRES UNLESS OTHERWISE NOTED)
- NEW BOLLARD
- NEW LUMINAIRE
- REMOVE WIRES
- ⊗ REMOVE ELECTROLIER
- ⊗ REMOVE PULL BOX
- ⊗ CIRCUIT
- SP SERVICE POLE

LEGEND: (THIS SHEET ONLY)

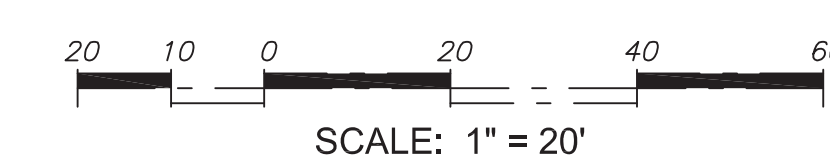
- AMERON CONCRETE TYPE 22CT10 POLE WITH SINGLE ACORN LUMINAIRE.
- AMERON CONCRETE TYPE 1C322 POLE WITH CJ-B' ALUMINUM DAVIT ARM ASSEMBLY.
- ⊗ METRO LED BOLLARD PATHWAY LIGHTING
- NEW PULL BOX
- EXISTING PULL BOX
- ⊗ REMOVE PULL BOX
- 2" NEW CONDUIT. UNLESS OTHERWISE NOTED.
- - - EXISTING 2" CONDUIT.
- EXISTING ELECTROLIER TO REMAIN.
- ⊗ EXISTING ELECTROLIER TO BE REMOVED INCLUDING LUMINAIRE, LAMP, BALLAST, AND FOUNDATION.
- ⊗ REMOVE AND SALVAGE ELECTROLIER INCLUDING LUMINAIRE, LAMP, BALLAST, AND FOUNDATION.
- ⊗ ABANDON CONDUIT AND REMOVE CONDUCTORS.
- ⊗ EXISTING SERVICE CABINET. INSTALL PHOTOCELL.
- CB INSTALL CONDUIT IN EXISTING PULL BOX.
- BC INSTALL PULL BOX IN EXISTING CONDUIT.
- CC CONNECT NEW AND EXISTING CONDUIT.
- SC SPLICE NEW TO EXISTING CONDUIT.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- 1 FURNISH AND INSTALL NEW STREET LIGHT STANDARD ON NEW FOUNDATION WITH NEW PULL BOX. SEE DETAIL "B" ON SHEET SL-2 FOR FOUNDATION DETAILS.
- 2 FURNISH AND INSTALL NEW ACORN LIGHT STANDARD ON NEW TYPE C-6-A FOUNDATION PER STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK) STD. PLAN NO. 433-1 WITH NEW PULL BOX.
- 3 INSTALL NEW BOLLARD LIGHT TYPE MT-B-B-21-3000K-D-CL-HSS-42-GRY ON NEW FOUNDATION. SEE DETAIL "A" ON THIS SHEET.
- 4 REMOVE EXISTING CONDUCTORS. INSTALL 2#6 AND 1#8G.



STREET LIGHTING CIRCUIT DIAGRAM
N.T.S.



CITY OF CULVER CITY
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ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

STREET LIGHTING PLANS

REVIEWED BY AND APPROVED BY: _____ SHEET **SL-1**
SEE TITLE SHEET SHEET 29 OF 85 SHEETS

5/3/2019 4:08:17 PM - S:\JOBS\2030 - CULVER BLVD REALIGNMENT\DRAWINGS\SL - CULVER BLVD.DWG - HENRY TRINH

MATCH LINE STA 16+00 - SEE SHEET SL-2

5049-212

DIGALERT
DIAL TOLL FREE 811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

FPL FPL and Associates, Inc.
Traffic • Transportation • Civil
30 Corporate Park, Suite 401
Irvine, CA 92606
PHONE: 949-252-1688

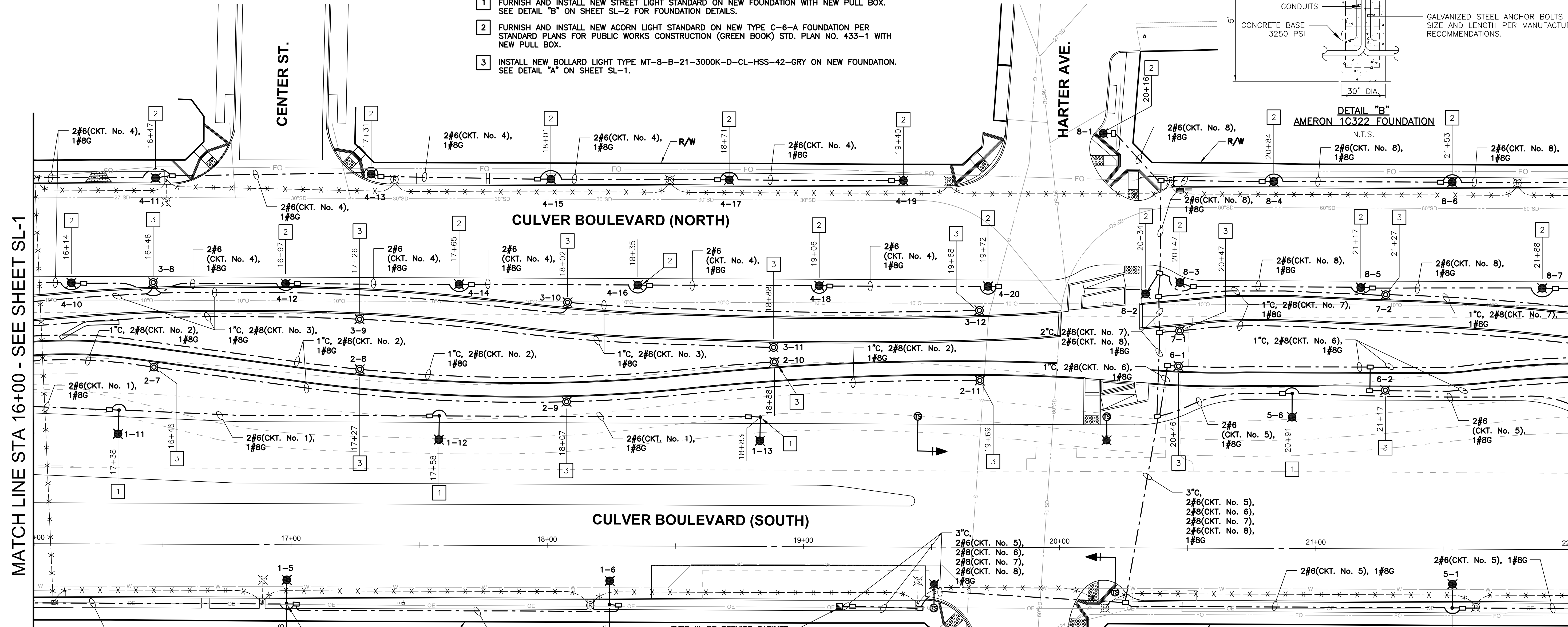
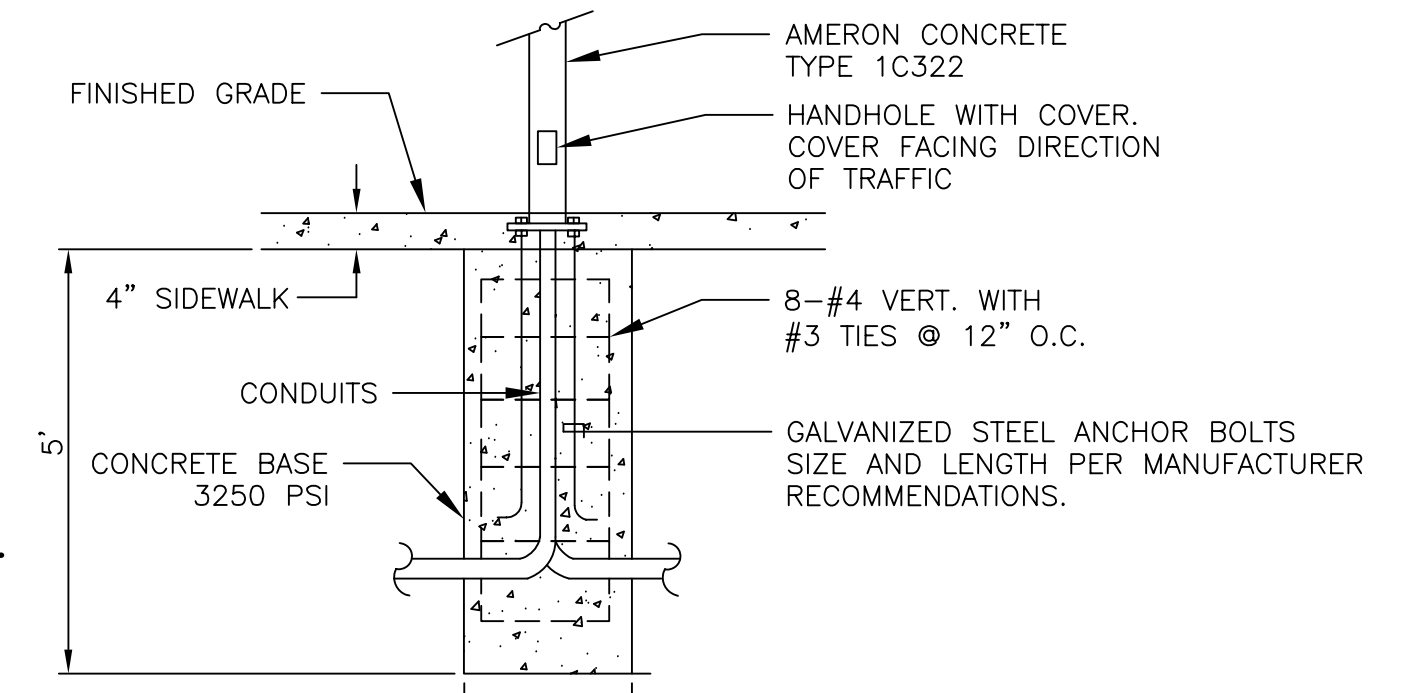
PLANS PREPARED UNDER THE SUPERVISION OF:
[Signature] 05-02-2019 DATE
C 40869 * EXP. 06/31/19
PROJECT NUMBER # PZ-460
DRAWING NO. _____

NO.	REVISION	BY	APPR.	DATE

Bar Measures 1 Inch

CONSTRUCTION NOTES (THIS SHEET ONLY)

- 1 FURNISH AND INSTALL NEW STREET LIGHT STANDARD ON NEW FOUNDATION WITH NEW PULL BOX. SEE DETAIL "B" ON SHEET SL-2 FOR FOUNDATION DETAILS.
- 2 FURNISH AND INSTALL NEW ACORN LIGHT STANDARD ON NEW TYPE C-6-A FOUNDATION PER STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK) STD. PLAN NO. 433-1 WITH NEW PULL BOX.
- 3 INSTALL NEW BOLLARD LIGHT TYPE MT-8-B-21-3000K-D-CL-HSS-42-GRY ON NEW FOUNDATION. SEE DETAIL "A" ON SHEET SL-1.



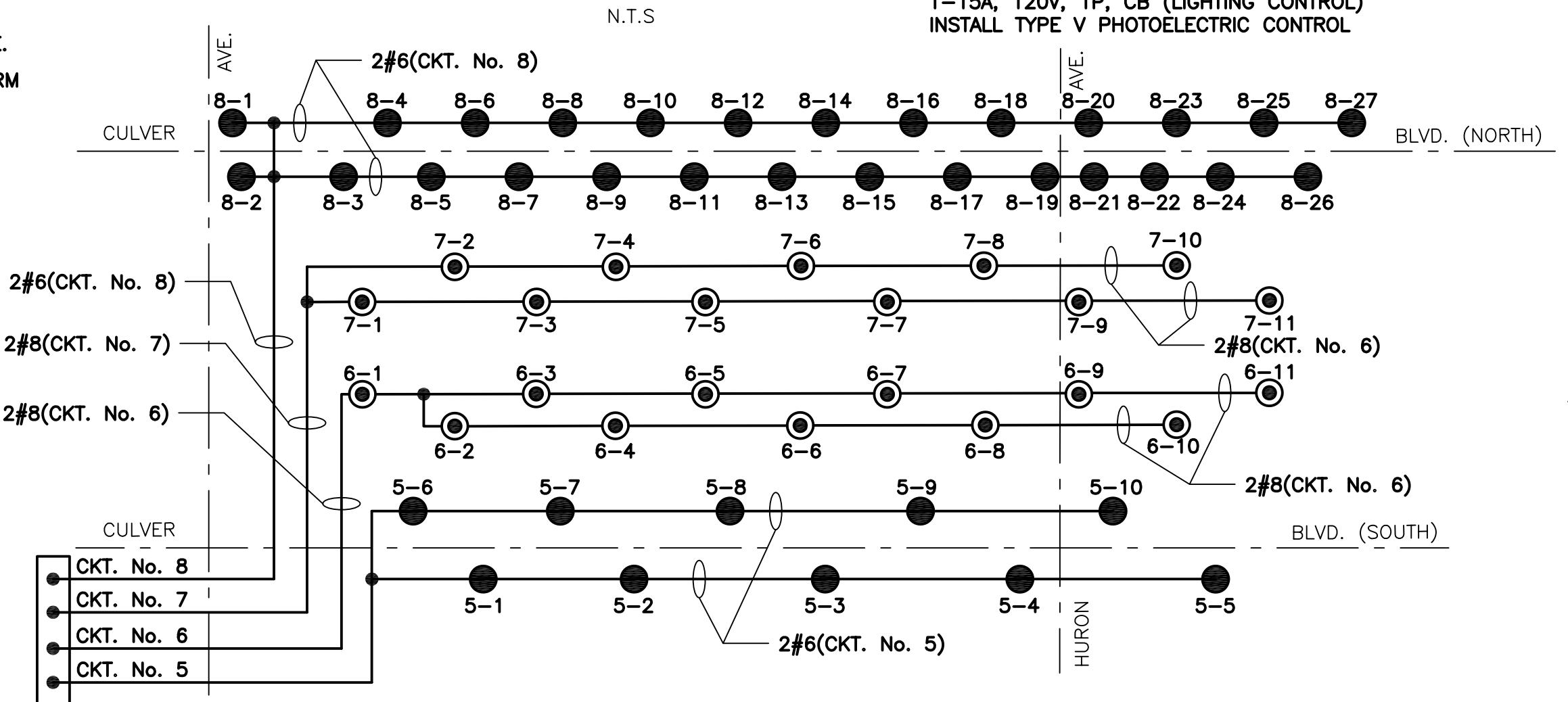
MATCH LINE STA 16+00 - SEE SHEET SL-1

MATCH LINE STA 22+00 - SEE SHEET SL-3

LEGEND: (THIS SHEET ONLY)

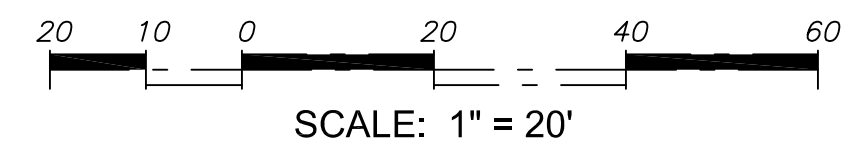
- AMERON CONCRETE TYPE 22CT10 POLE WITH SINGLE ACORN LUMINAIRE.
- AMERON CONCRETE TYPE 1C322 POLE WITH CJ-8' ALUMINUM DAVIT ARM ASSEMBLY.
- NEW TRAFFIC SIGNAL POLE WITH MAST ARM. SEE TRAFFIC SIGNAL PLAN FOR DETAILS.
- NEW TRAFFIC SIGNAL POLE WITHOUT MAST ARM. SEE TRAFFIC SIGNAL PLAN FOR DETAILS.
- METRO LED BOLLARD PATHWAY LIGHTING
- NEW PULL BOX
- REMOVE PULL BOX
- 2" NEW CONDUIT. UNLESS OTHERWISE NOTED.
- EXISTING PEDESTRIAN ELECTROLINER TO BE REMOVED INCLUDING LUMINAIRE, LAMP, BALLAST, AND FOUNDATION.
- EXISTING ELECTROLINER TO BE REMOVED INCLUDING LUMINAIRE, LAMP, BALLAST, AND FOUNDATION.
- REMOVE AND SALVAGE ELECTROLINER INCLUDING LUMINAIRE, LAMP, BALLAST, AND FOUNDATION.
- ABANDON CONDUIT AND REMOVE CONDUCTORS.
- NEW SERVICE CABINET WITH PHOTOCELL

STREET LIGHTING CIRCUIT DIAGRAM



WIRING DIAGRAM LEGEND: (THIS SHEET ONLY)

- NEW SPLICE
- CONDUCTORS (2#6 WIRES UNLESS OTHERWISE NOTED)
- NEW BOLLARD
- NEW LUMINAIRE
- CKT. CIRCUIT



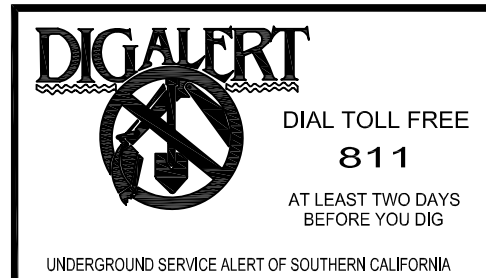
CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
 CULVER BOULEVARD REALIGNMENT PROJECT
 (BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

STREET LIGHTING PLANS

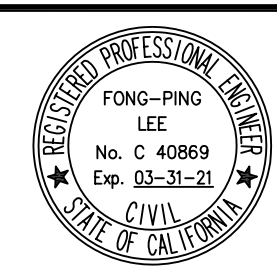
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 SEE TITLE SHEET

SHEET
SL-2
 SHEET 30 OF 85 SHEETS

5/3/2019 4:08:36 PM - S:\JOBS\2030 - CULVER BLVD REALIGNMENT\DRAWINGS\SL - CULVER BLVD.DWG - HENRY TRINH



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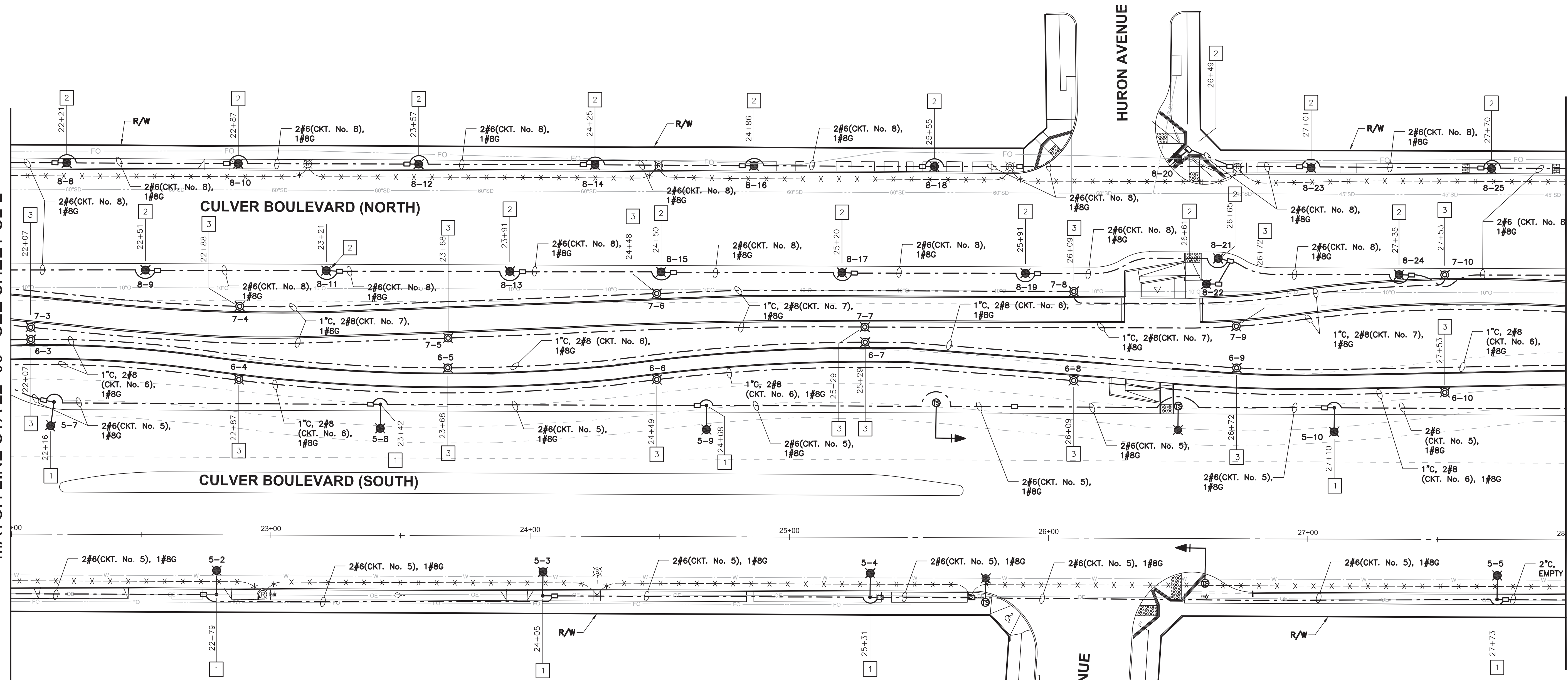


PLANS PREPARED UNDER THE SUPERVISION OF:
 DATE: 05-02-2019
 PROJECT NUMBER # PZ-460
 DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

MATCH LINE STA 22+00 - SEE SHEET SL-2

MATCH LINE STA 28+00 - SEE SHEET SL-4



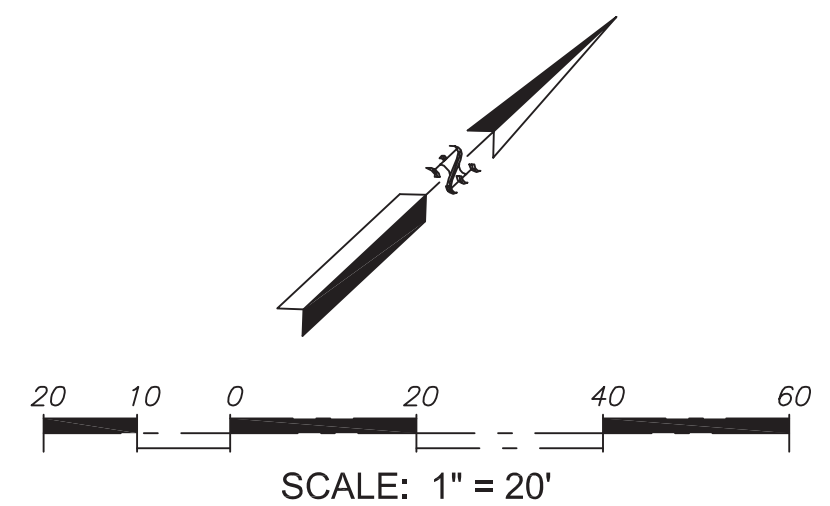
LEGEND: (THIS SHEET ONLY)

- AMERON CONCRETE TYPE 22CT10 POLE WITH SINGLE ACORN LUMINAIRE.
- AMERON CONCRETE TYPE 1C322 POLE WITH CJ-8' ALUMINUM DAVIT ARM ASSEMBLY.
- NEW TRAFFIC SIGNAL POLE WITH MAST ARM. SEE TRAFFIC SIGNAL PLAN FOR DETAILS.
- NEW TRAFFIC SIGNAL POLE WITHOUT MAST ARM. SEE TRAFFIC SIGNAL PLAN FOR DETAILS.
- METRO LED BOLLARD PATHWAY LIGHTING
- NEW PULL BOX
- REMOVE PULL BOX
- 2" NEW CONDUIT. UNLESS OTHERWISE NOTED.
- EXISTING PEDESTRIAN ELECTROLINER TO BE REMOVED INCLUDING LUMINAIRE, LAMP, BALLAST, AND FOUNDATION.
- ABANDON CONDUIT AND REMOVE CONDUCTORS.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- 1 FURNISH AND INSTALL NEW STREET LIGHT STANDARD ON NEW FOUNDATION WITH NEW PULL BOX. SEE DETAIL "B" ON SHEET SL-2 FOR FOUNDATION DETAILS.
- 2 FURNISH AND INSTALL NEW ACORN LIGHT STANDARD ON NEW TYPE C-6-A FOUNDATION PER STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK) STD. PLAN NO. 433-1 WITH NEW PULL BOX.
- 3 INSTALL NEW BOLLARD LIGHT TYPE MT-8-B-21-3000K-D-CL-HSS-42-GRY ON NEW FOUNDATION. SEE DETAIL "A" ON SHEET SL-1.

SEE SHEET SL-2 FOR WIRING DIAGRAM



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CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

STREET LIGHTING PLANS

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SEE TITLE SHEET

SHEET
SL-3
SHEET 31 OF 85 SHEETS



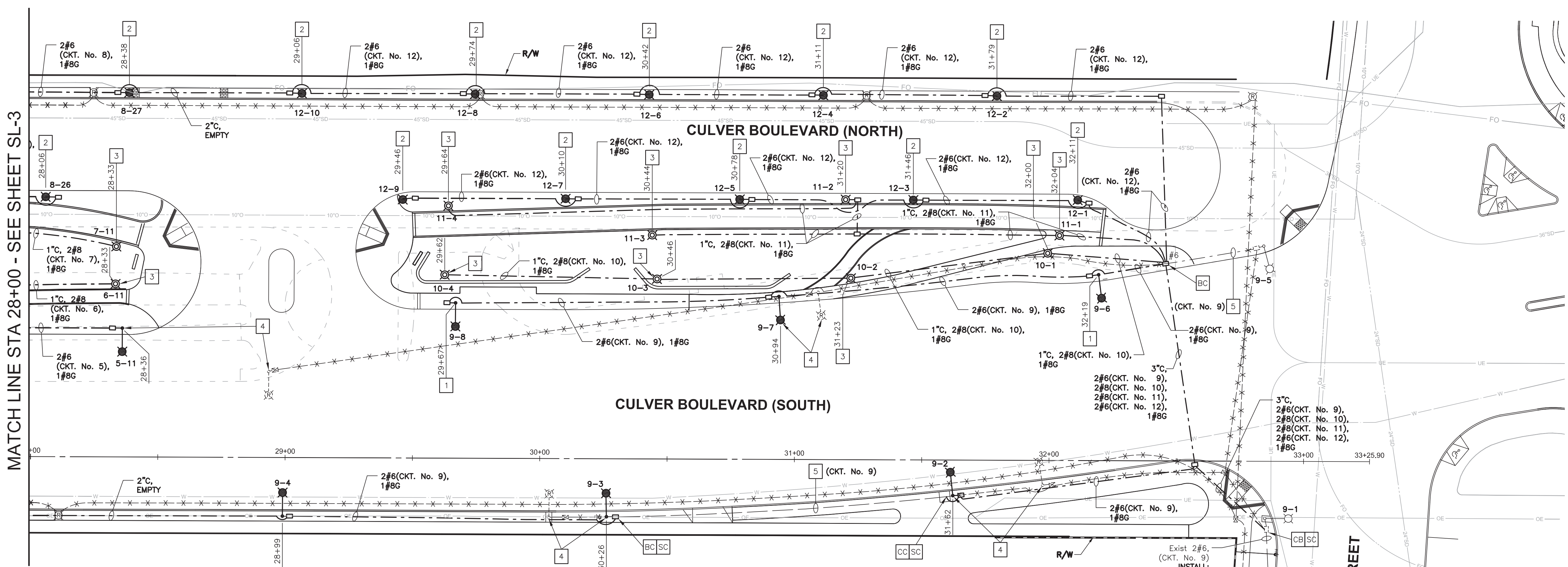
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30 Corporate Park, Suite 401
Irvine, CA 92606
PHONE: 949-252-1688



PLANS PREPARED UNDER THE SUPERVISION OF:
Fong-Ping Lee 05-02-2019
C 40869 * EXP. 03/31/21 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

MATCH LINE STA 28+00 - SEE SHEET SL-3

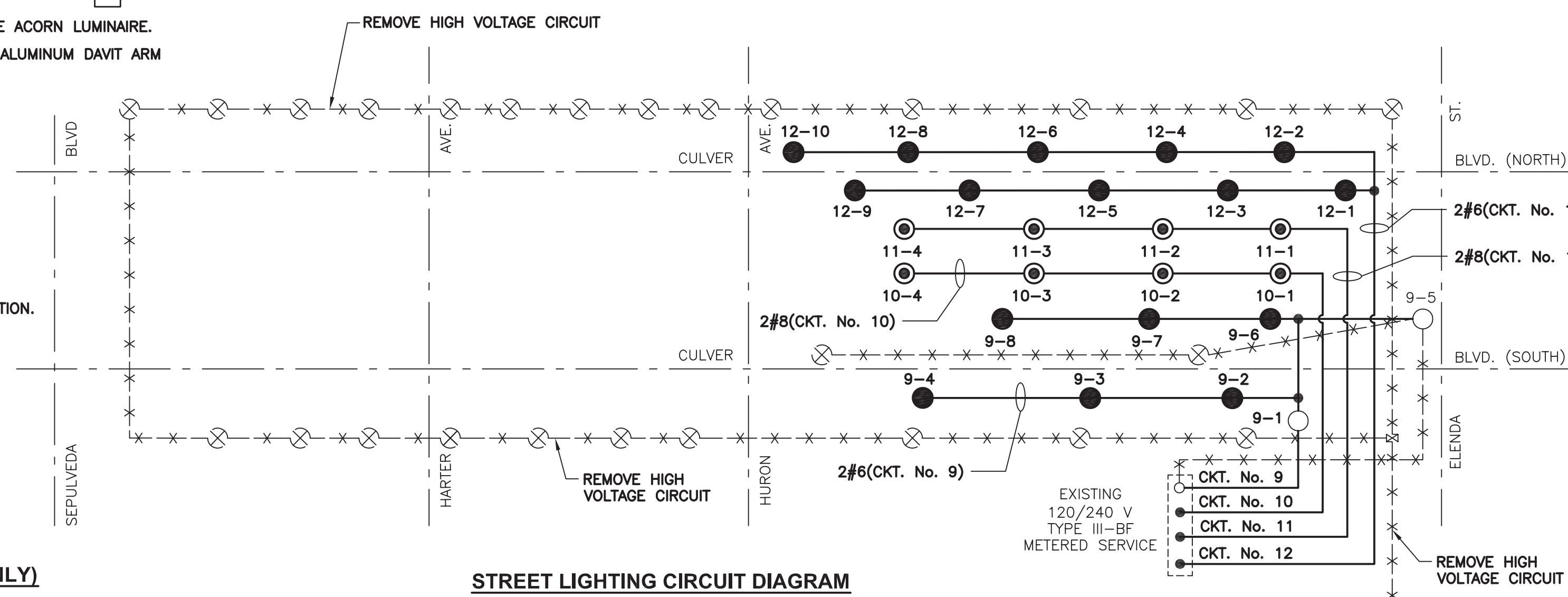


LEGEND: (THIS SHEET ONLY)

- AMERON CONCRETE TYPE 22CT10 POLE WITH SINGLE ACORN LUMINAIRE.
- AMERON CONCRETE TYPE 1C322 POLE WITH CJ-8' ALUMINUM DAVIT ARM ASSEMBLY.
- METRO LED BOLLARD PATHWAY LIGHTING
- NEW PULL BOX
- EXISTING PULL BOX
- REMOVE PULL BOX
- 2" NEW CONDUIT, UNLESS OTHERWISE NOTED.
- EXISTING 2" CONDUIT.
- EXISTING ELECTROLIER TO REMAIN.
- EXISTING PEDESTRIAN ELECTROLIER TO BE REMOVED INCLUDING LUMINAIRE, LAMP, BALLAST, AND FOUNDATION.
- EXISTING ELECTROLIER TO BE REMOVED INCLUDING LUMINAIRE, LAMP, BALLAST, AND FOUNDATION.
- ABANDON CONDUIT AND REMOVE CONDUCTORS.
- EXISTING SERVICE CABINET. INSTALL PHOTO CELL.
- INSTALL CONDUIT IN EXISTING PULL BOX.
- INSTALL PULL BOX IN EXISTING CONDUIT.
- CONNECT NEW AND EXISTING CONDUIT.
- SPLICE NEW TO EXISTING CONDUCTOR.

CONSTRUCTION NOTES (THIS SHEET ONLY)

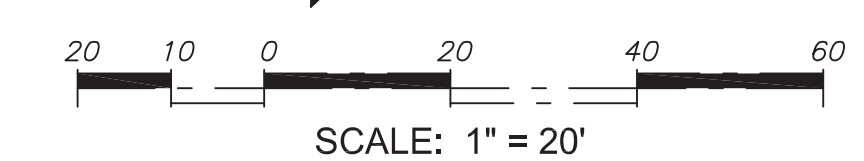
- 1 FURNISH AND INSTALL NEW STREET LIGHT STANDARD ON NEW FOUNDATION WITH NEW PULL BOX. SEE DETAIL "B" ON SHEET SL-2 FOR FOUNDATION DETAILS.
- 2 FURNISH AND INSTALL NEW ACORN LIGHT STANDARD ON NEW TYPE C-6-A FOUNDATION PER STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK) STD. PLAN NO. 433-1 WITH NEW PULL BOX.
- 3 INSTALL NEW BOLLARD LIGHT TYPE MT-8-B-21-3000K-D-CL-HSS-42-GRY ON NEW FOUNDATION. SEE DETAIL "A" ON SHEET SL-1.
- 4 REMOVE AND RELOCATE EXISTING POLE TO NEW FOUNDATION PER DETAIL "B" ON SHEET SL-2.
- 5 REMOVE EXISTING CONDUCTORS. INSTALL 2#6 AND 1#8G.
- 6 CONTRACTOR TO REMOVE SERIES CIRCUIT SERVICE ENCLOSURE ON SERVICE POLE.



STREET LIGHTING CIRCUIT DIAGRAM

WIRING DIAGRAM LEGEND: (THIS SHEET ONLY)

- EXIST SPLICE
- EXISTING LUMINAIRE TO REMAIN.
- NEW SPLICE
- NEW BOLLARD
- NEW LUMINAIRE
- CONDUCTORS (2#6 WIRES UNLESS OTHERWISE NOTED)
- REMOVE WIRES
- REMOVE ELECTROLIER
- REMOVE PULL BOX
- CIRCUIT



EXISTING TYPE III-BF SERVICE CABINET
 1-30A, 240V, 2P, CB (CKT. No. 9)
 INSTALL:
 1-30A, 120V, 1P, CB (CKT. No. 10)
 1-30A, 120V, 1P, CB (CKT. No. 11)
 1-30A, 240V, 2P, CB (CKT. No. 12)
 INSTALL TYPE V PHOTOELECTRIC CONTROL



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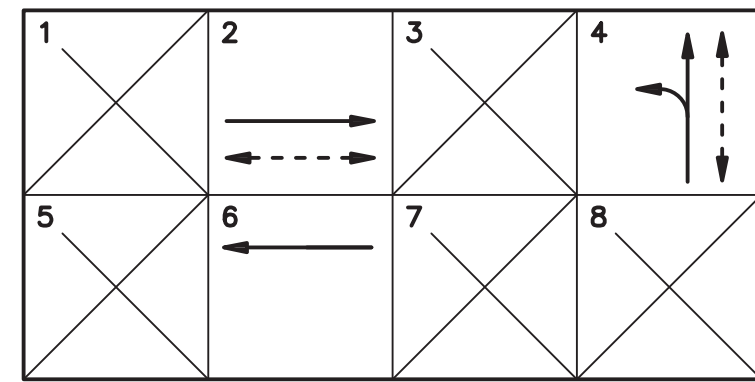
PLANS PREPARED UNDER THE SUPERVISION OF:

 C 40869 * EXP. 06/31/19 DATE 05-02-2019
 PROJECT NUMBER #Z-460
 DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

CITY OF CULVER CITY
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
 CULVER BOULEVARD REALIGNMENT PROJECT
 (BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

STREET LIGHTING PLANS
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 SHEET SL-4
 SHEET 32 OF 85 SHEETS



PROPOSED PHASE DIAGRAM

TRAFFIC SIGNAL GENERAL NOTE: (SEE SHEET G-02)

NOTES:

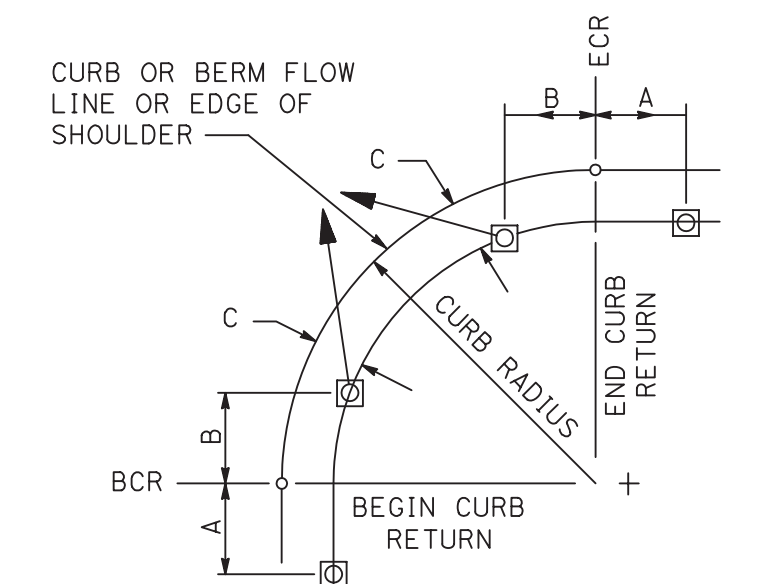
1. INSTALL NEW 352I CABINET WITH TYPE 2070LX CONTROLLER, SWITCH PACKS, I.L.D., SENSOR UNITS, OPTICOM RECEIVER AND OTHER AUXILIARY EQUIPMENT REQUIRED TO PROVIDE A COMPLETE FUNCTIONING CONTROLLER FOR THE PROPOSED OPERATION AS SHOWN. 352I CONTROLLER CABINET SHALL BE ANTI GRAFFITI COATED. CONTROLLER TO BE SUPPLIED WITH 2070-IC CPU MODULE. INSTALL 3" CONCRETE HOUSEKEEPING PAD WITH 3'X3' AREA IN FRONT AND REAR OF CABINET.
2. INSTALL SIGN(S) ON SIGNAL MAST ARM AS INDICATED.
3. INSTALL PEDESTRIAN BARRICADE PER CALTRANS STANDARD PLANS ES-70, TYPE I, DETAIL C, 6' LONG, AND INSTALL SIGN(S) ON BOTH SIDE AS SHOWN.
4. INSTALL TYPE E DETECTOR LOOP.
5. INSTALL GRIDSMART VIDEO DETECTION SYSTEM (VDS). CONTACT CITY OF CULVER CITY PRIOR TO PURCHASE FOR VDS SPECIFICATIONS. INSTALL VDS ON LUMINAIRE ARM, UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER. DETECTOR ZONE SHALL BE IN THE MIDDLE OF THE LANE.
6. INSTALL CITY-FURNISHED TYPE III-BF 120/240V SERVICE EQUIPMENT ENCLOSURE ON NEW FOUNDATION WITH 100 AMP MAIN BREAKER, 1-15A AMP BREAKER FOR IISNS, 1-15A AMP BREAKER FOR PEC, 1-50 AMP BREAKER FOR TRAFFIC SIGNAL, 4-30 AMP FOR LIGHTINGS, AND 1-30A INTERSECTION LIGHTING. CONSTRUCT NEW SERVICE CABINET FOUNDATION PER CALTRANS STD. ES-2E.
7. CONTRACTOR SHALL DISCONNECT AND REMOVE THE (1)25-PAIR INTERCONNECT CABLE BETWEEN THE EXISTING CONTROLLER CABINET AT ELENDA ST. AND THE EXISTING CONTROLLER CABINET AT SEPULVEDA BLVD. THE CONTRACTOR SHALL INSTALL A NEW (1)25-PAIR INTERCONNECT CABLE FROM THE EXISTING CONTROLLER CABINET AT ELENDA ST. TO THE PROPOSED CONTROLLER CABINET AT THIS INTERSECTION, HARTER AVE, AND EXISTING CONTROLLER CABINET AT SEPULVEDA BLVD. (APPROX. 2,500' CABLE LENGTH). SEE INTERCONNECT DIAGRAM ON THIS SHEET.
8. ABANDON SIGNAL INTERCONNECT CONDUIT. SEE INTERCONNECT DIAGRAM FOR DETAILS.
9. INSTALL OPTICAL DETECTOR FOR EMERGENCY VEHICLE (EVP). THE EXACT ORIENTATION OF EVP DETECTORS TO BE ADJUSTED IN THE FIELD.
10. APS PUSH BUTTON SHALL HAVE LOCATOR TONE, RAPID TICK, AND VIBROTACTILE ARROW.
11. INSTALL TWO-INCH (3") RISER ON THE 9 O'CLOCK POSITION OF SERVICE POLE NO. _____ M. INSTALL 3#6 SERVICE WIRES & 1#8 BONDING GROUND WIRE FROM SERVICE PULL BOX TO CONTROLLER.
12. MAST ARM MOUNTED STREET NAME SIGNS SHALL BE PROVIDED USING INTERNALLY ILLUMINATED LED LIGHT SOURCES. THE SIGN PANELS, SIGN FRAMES, AND MOUNTING HARDWARE SHALL BE TEMPLE EDGE-LIT RAZOR INTERNALLY ILLUMINATED LED STREET BOTH WIDE WITH GREEN BACKGROUND AND WHITE LETTERING. THE SIGN SHALL INCLUDE 12" UPPERCASE AND 9" LOWERCASE SERIES C LETTERS. THE SIGN HEIGHT SHALL BE 24". THE SPACING BETWEEN LETTERS SHALL BE ONE STROKE WIDTH. THE SPACING BETWEEN WORDS SHALL BE 7" AND THE SPACING AT THE LEFT AND RIGHT EDGES OF THE SIGN SHALL BE NO LESS THAN 7".

No.	POLE DATA				LUMINAIRE			SIGNAL MOUNTING			APS			POLE LOCATION			STREET NAME SIGN (LED)	REMARKS
	TYPE	HGT.	SIG. M.A.	LUM. M.A.	ISL	M.A.	VEH.	PED.	PHASE	ARROW	A	B	C					
1	17-3-100	30'	15'	12'	250W	MAS	SV-2-T	-	-	-	-	-	3'	Harter Av	SEE NOTE 12			
2	1A	14'	-	-	-	-	TV-1-T	-	-	-	-	-	3'	-	-			
3	15TS	30'	-	12'	250W	-	SV-2-T	SP-1-T	4	▶	-	-	3'	-	-			
4	19-3-100	30'	20'	12'	250W	MAS	SV-1-T	SP-1-T	4	▶	-	-	3'	Harter Av	SEE NOTE 12			
5	15TS	30'	-	12'	250W	-	-	SP-1-T	2	▶	-	2'	3'	-	-			
6	1	7'	-	-	-	-	-	SP-1-T	2	▶	-	6'	3'	-	-			
7	15TS	30'	-	12'	250W	-	SV-1-T	-	-	-	-	4'	3'	-	-			

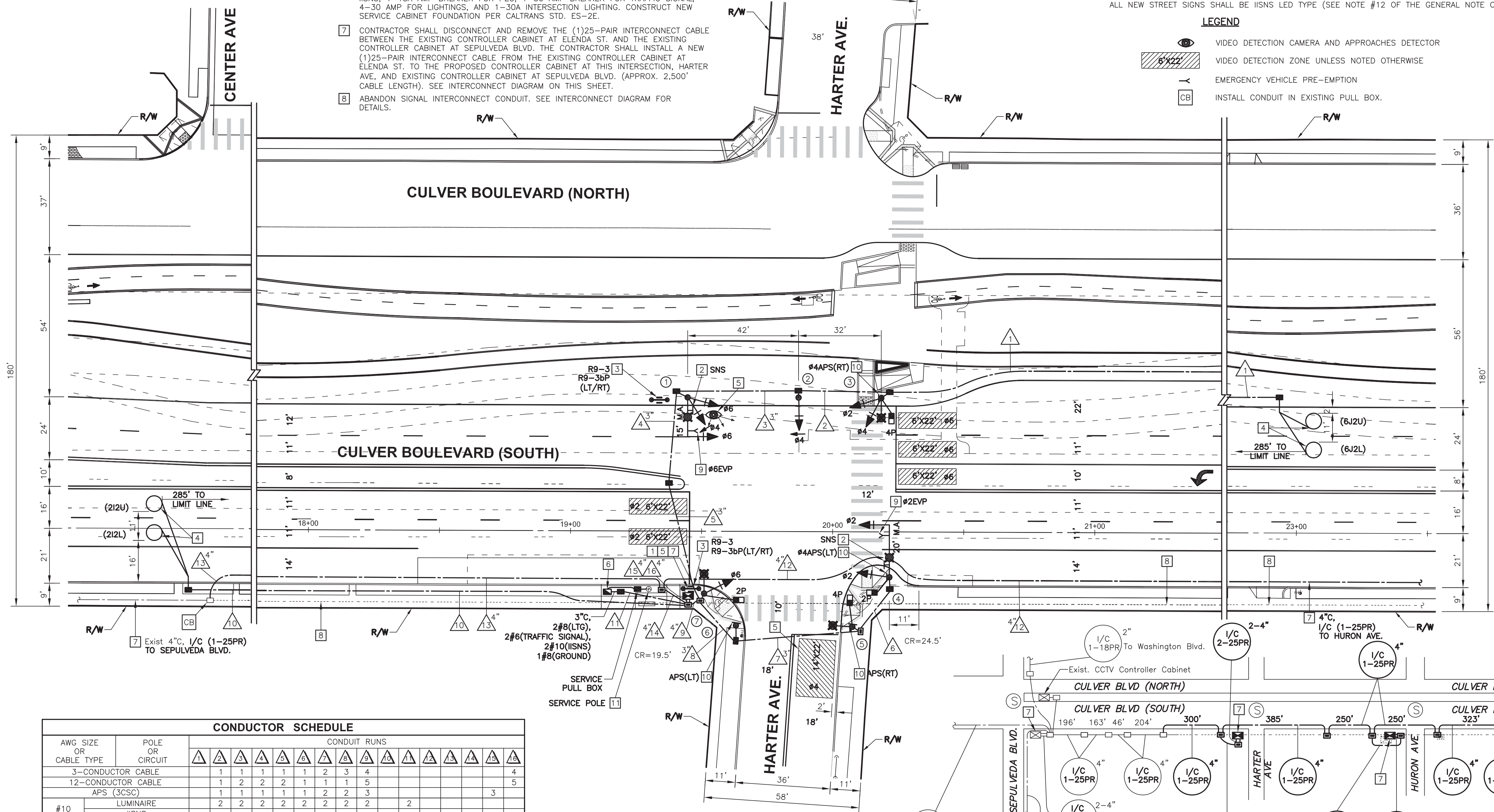
ALL EQUIPMENT IS NEW.
ALL NEW STREET SIGNS SHALL BE IISNS LED TYPE (SEE NOTE #12 OF THE GENERAL NOTE ON THIS SHEET)

LEGEND

- VIDEO DETECTION CAMERA AND APPROACHES DETECTOR
- VIDEO DETECTION ZONE UNLESS NOTED OTHERWISE
- EMERGENCY VEHICLE PRE-EMPTION
- INSTALL CONDUIT IN EXISTING PULL BOX.

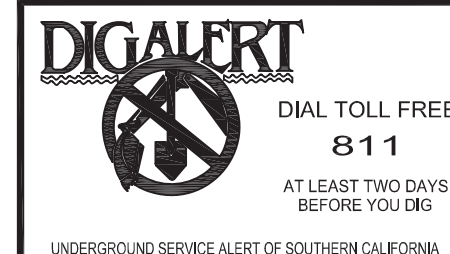


POLE LOCATION DETAIL
NOT TO SCALE



AWG SIZE OR CABLE TYPE	POLE OR CIRCUIT	CONDUIT RUNS															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14		
3-CONDUCTOR CABLE		1	1	1	1	1	1	1	1	1	1	1	1	1	1		
12-CONDUCTOR CABLE		1	2	2	2	1	1	1	1	5						5	
APS (3CSC)		1	1	1	1	1	1	2	2	3						3	
#10 LUMINAIRE		2	2	2	2	2	2	2	2	2						2	
#6 IISNS												2			2		
#6 SIGNAL SERVICE												2			2		
DLC #2 DETECTOR												2			2		
DLC #6 DETECTOR		2	2	2	2	2	2	2	2	2						2	
INTERCONNECT 25PR22												1	1	2			2
VIDEO DETECTION CABLE												1			1		
EVP CABLE		1	1	1	1	1	1	1	1	2						2	
CONDUIT SIZE		2"	2"	3"	3"	3"	3"	3"	3"	4"	2"	2"	3"	4"	4"	4"	4"

ALL CONDUITS AND CONDUCTORS ARE NEW.



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Irvine, CA 92606
PHONE: 949-252-1688



PLANS PREPARED UNDER THE SUPERVISION OF:
Fong-Ping Lee
C 43869 EXP. 03/31/21 DATE
PROJECT NUMBER # PZ-460
DRAWING NO. _____

NO.	REVISION	BY	APPR.	DATE

CITY OF CULVER CITY PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

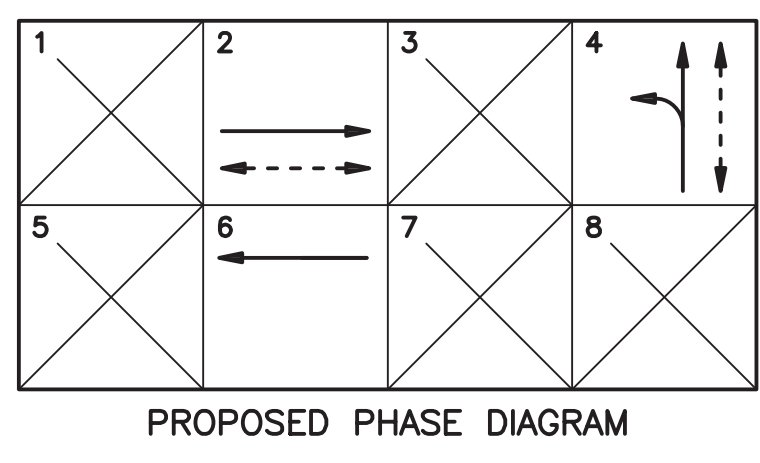
TRAFFIC SIGNAL PLAN
CULVER BOULEVARD
HARTER AVENUE
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SHEET TS-1
SHEET 33 OF 85 SHEETS

Bar Measures 1 Inch

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5049-212



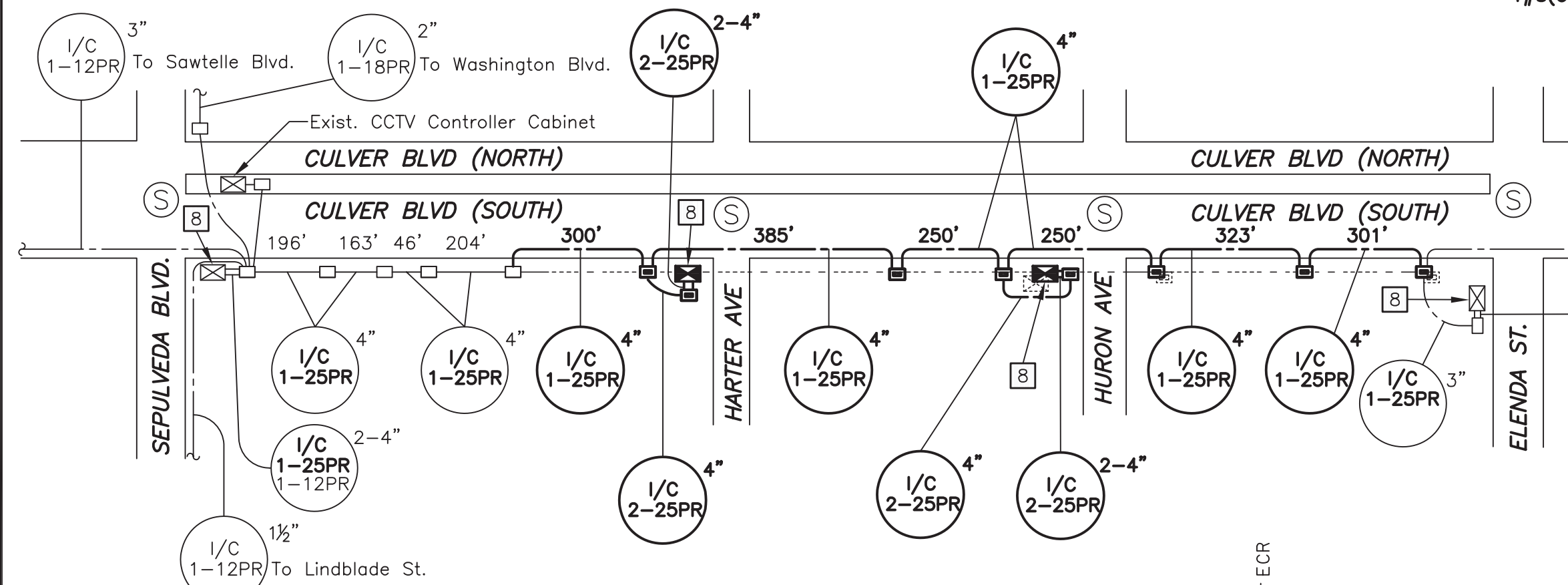
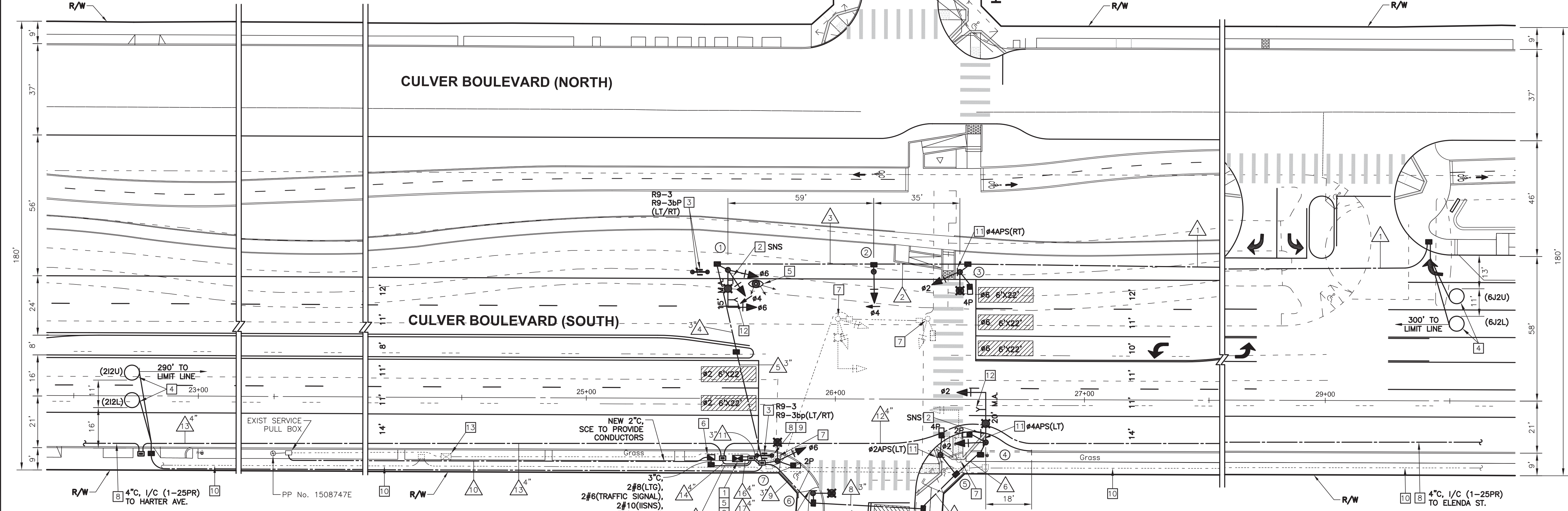
AWG SIZE OR CABLE TYPE	POLE OR CIRCUIT	CONDUIT RUNS													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
3-CONDUCTOR CABLE		1	1	1	1	1	2	2	2	4					
12-CONDUCTOR CABLE		1	2	3	3	1	1	1	1	5					
APS (3CSC)		1	1	1	1	1	2	2	2	3					3
#8 LUMINAIRE		2	2	2	2	2	2	2	2	2					2
#6 SIGNAL SERVICE															2
DLC															2
INTERCONNECT 25PR22															2
VIDEO DETECTION CABLE															2
CONDUIT SIZE		2"	2"	2"	3"	3"	2"	2"	3"	3"	2"	2-4"	4"	4"	4"

ALL CONDUITS AND CONDUCTORS ARE NEW.

No.	POLE DATA			LUMINAIRE			SIGNAL MOUNTING			APS			POLE LOCATION			STREET NAME SIGN (LED)	REMARKS
	TYPE	HGT.	SIG. M.A.	LUM. M.A.	LED	M.A.	VEH.	PED.	PHASE	ARROW	A	B	C				
1	17-3-100	30'	15'	12'	250W	MAS	SV-2-T	-	-	-	-	-	-	3'	Huron Av	SEE NOTE 14	
2	1A	14'	-	-	-	-	TV-1-T	-	-	-	-	-	-	3'	-	-	
3	15TS	30'	-	12'	250W	-	SV-1-T	SP-1-T	4	→	-	-	-	3'	-	-	
4	19-3-100	30'	20'	12'	250W	MAS	-	SP-1-T	4	←	-	-	-	3'	Huron Av	SEE NOTE 14	
5	1	10'	-	-	-	-	-	SP-1-T	2	←	-	-	-	22'	3'	-	
6	15TS	30'	-	12'	250W	-	-	-	2	←	-	-	-	9'	3'	-	
7	15TS	30'	-	12'	250W	-	SV-1-T	SP-1-T	-	-	-	-	-	4'	3'	-	

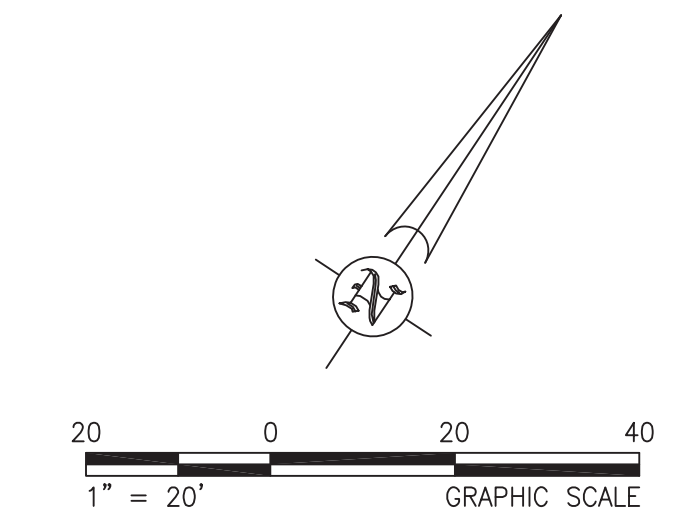
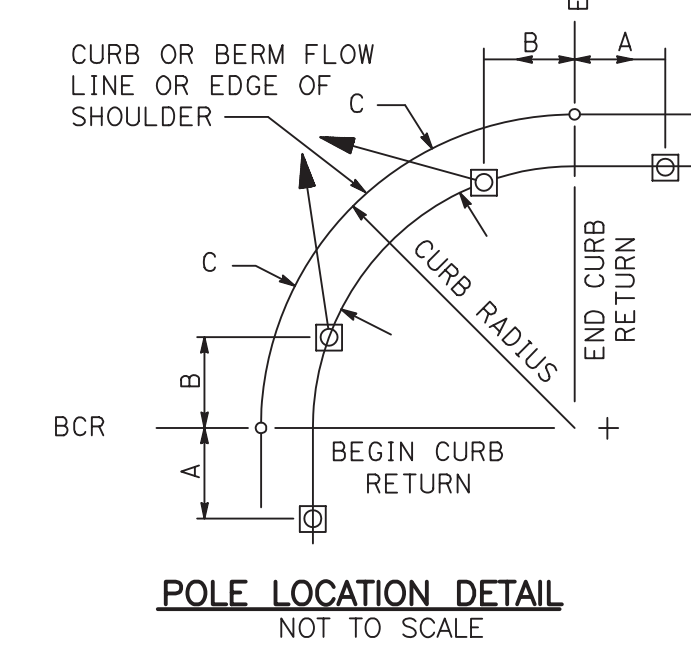
● ALL EQUIPMENT IS NEW.
ALL NEW STREET SIGNS SHALL BE IISNS LED TYPE (SEE NOTE #14 OF THE GENERAL NOTE ON THIS SHEET)

TRAFFIC SIGNAL GENERAL NOTE: (SEE SHEET G-02)



- NOTES:**
- INSTALL NEW 352I CABINET WITH TYPE 2070LX CONTROLLER, SWITCH PACKS, I.L.D., SENSOR UNITS, OPTICOM RECEIVER AND OTHER AUXILIARY EQUIPMENT REQUIRED TO PROVIDE A COMPLETE FUNCTIONING CONTROLLER FOR THE PROPOSED OPERATION AS SHOWN. 352I CONTROLLER CABINET SHALL BE ANTI GRAFFITI COATED. CONTROLLER TO BE SUPPLIED WITH 2070-IC CPU MODULE. INSTALL 3" CONCRETE HOUSEKEEPING PAD WITH 3'x3' AREA IN FRONT AND REAR OF CABINET.
 - INSTALL SIGN(S) ON SIGNAL MAST ARM AS INDICATED.
 - INSTALL PEDESTRIAN BARRICADE PER CALTRANS STANDARD PLAN ES-7Q TYPE I DETAIL C, 6' LONG AND INSTALL SIGN(S) ON BOTH SIDE AS SHOWN.
 - INSTALL TYPE E DETECTOR LOOP.
 - INSTALL GRIDSMART VIDEO DETECTION SYSTEM (VDS). CONTACT CITY OF CULVER CITY PRIOR TO PURCHASE FOR VDS SPECIFICATIONS. INSTALL VDS ON LUMINAIRE ARM, UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER. DETECTOR ZONE SHALL BE IN THE MIDDLE OF THE LANE.
 - INSTALL CITY-FURNISHED TYPE III-BF 120/240V SERVICE EQUIPMENT ENCLOSURE ON NEW FOUNDATION WITH 100 AMP MAIN BREAKER, 1-15A AMP BREAKER FOR PEC, 1-15A AMP FOR IISNS, 1-50 AMP BREAKER FOR TRAFFIC SIGNAL, AND 1-30A FOR INTERSECTION LIGHTING. CONSTRUCT NEW SERVICE CABINET FOUNDATION PER CALTRANS STD. ES-2E.
 - REMOVE TRAFFIC SIGNAL EQUIPMENT, STANDARD, FOUNDATION, AND PULL BOX; ABANDON CONDUITS.
 - CONTRACTOR SHALL DISCONNECT AND REMOVE THE (1)25-PAIR INTERCONNECT CABLE BETWEEN THE EXISTING CONTROLLER CABINET AT ELENDA ST. AND THE EXISTING CONTROLLER CABINET AT SEPULVEDA BLVD. THE CONTRACTOR SHALL INSTALL A NEW (1)25-PAIR INTERCONNECT CABLE FROM THE EXISTING CONTROLLER CABINET AT ELENDA ST. TO THE PROPOSED CONTROLLER CABINET AT THIS INTERSECTION, HARTNER AVE, AND EXISTING CONTROLLER CABINET AT SEPULVEDA BLVD. (APPROX. 2,500' CABLE LENGTH). SEE INTERCONNECT DIAGRAM ON THIS SHEET.
 - REMOVE CONTROLLER, CABINET, AND FOUNDATION; ABANDON CONDUITS.
 - ABANDON SIGNAL INTERCONNECT CONDUIT. SEE INTERCONNECT DIAGRAM FOR DETAILS.
 - APS PUSH BUTTONS SHALL HAVE LOCATOR TONE, RAPID TICK, AND VIBROTACTILE ARROW.
 - INSTALL OPTICAL DETECTOR FOR EMERGENCY VEHICLE PRE-EMPTION (EVP). THE EXACT ORIENTATION OF EVP DETECTORS TO BE ADJUSTED IN THE FIELD.
 - REMOVE SERVICE CABINET AND FOUNDATION; ABANDON CONDUITS.
 - MAST ARM MOUNTED STREET NAME SIGNS SHALL BE PROVIDED USING INTERNALLY ILLUMINATED LED LIGHT SOURCES. THE SIGN PANELS, SIGN FRAMES, AND MOUNTING HARDWARE SHALL BE TEMPLE EDGE-LIT RAZOR INTERNALLY ILLUMINATED LED STREET BOTH WIDE WITH GREEN BACKGROUND AND WHITE LETTERING. THE SIGN SHALL INCLUDE 12" UPPERCASE AND 9" LOWERCASE SERIES C LETTERS. THE SIGN HEIGHT SHALL BE 24". THE SPACING BETWEEN LETTERS SHALL BE ONE STROKE WIDTH. THE SPACING BETWEEN WORDS SHALL BE 7" AND THE SPACING AT THE LEFT AND RIGHT EDGES OF THE SIGN SHALL BE NO LESS THAN 7".

- LEGEND**
- VIDEO DETECTION CAMERA AND APPROACHES DETECTOR
 - VIDEO DETECTION ZONE UNLESS NOTED OTHERWISE
 - EMERGENCY VEHICLE PRE-EMPTION



CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
 CULVER BOULEVARD REALIGNMENT PROJECT
 (BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

TRAFFIC SIGNAL PLAN
 CULVER BOULEVARD
 HURON AVENUE

REVIEWED BY AND APPROVED BY
 SEE TITLE SHEET

SHEET
TS-2
 SHEET 34 OF 85 SHEETS



FPL FPL and Associates, Inc.
 Traffic • Transportation • Civil
 30 Corporate Park, Suite 401
 Irvine, CA 92606
 PHONE: 949-252-1688



PLANS PREPARED UNDER THE SUPERVISION OF:
 Fong-Ping Lee
 C 43869 EXP. 03/31/21 DATE
 PROJECT NUMBER # PZ-460
 DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

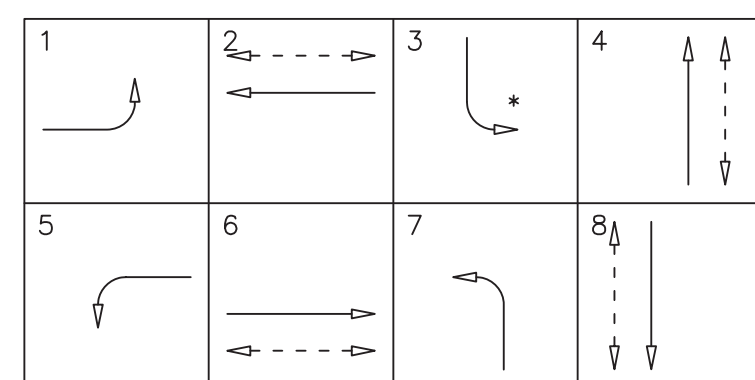
5/3/2019 4:06:37 PM - S:\JOBS\20300 - CULVER BLVD REALIGNMENT\DRAWINGS\TS - CULVER BLVD & HURON AVE.DWG - HENRY TRINH

5049-212

Bar Measures 1 Inch

CONDUCTOR SCHEDULE		CONDUIT RUNS			
AWG SIZE OR CABLE TYPE	POLE OR CIRCUIT	▲	▲	▲	▲
3-CONDUCTOR CABLE					
12-CONDUCTOR CABLE					
APS (3CSC)					
#10 LUMINAIRE					
#6 SIGNAL SERVICE					
DLC #2 DETECTOR		2	2,2	2,2	2,2
DLC #5 DETECTOR			2		2
INTERCONNECT 25PR22				1	1
CONDUIT SIZE		2"(N)	3"	3"	4" 2-4"

ALL CONDUITS/CONDUCTORS ARE EXISTING UNLESS OTHERWISE NOTED.
(N) = NEW



EXISTING PHASE DIAGRAM
* = PROTECTED-PERMISSIVE

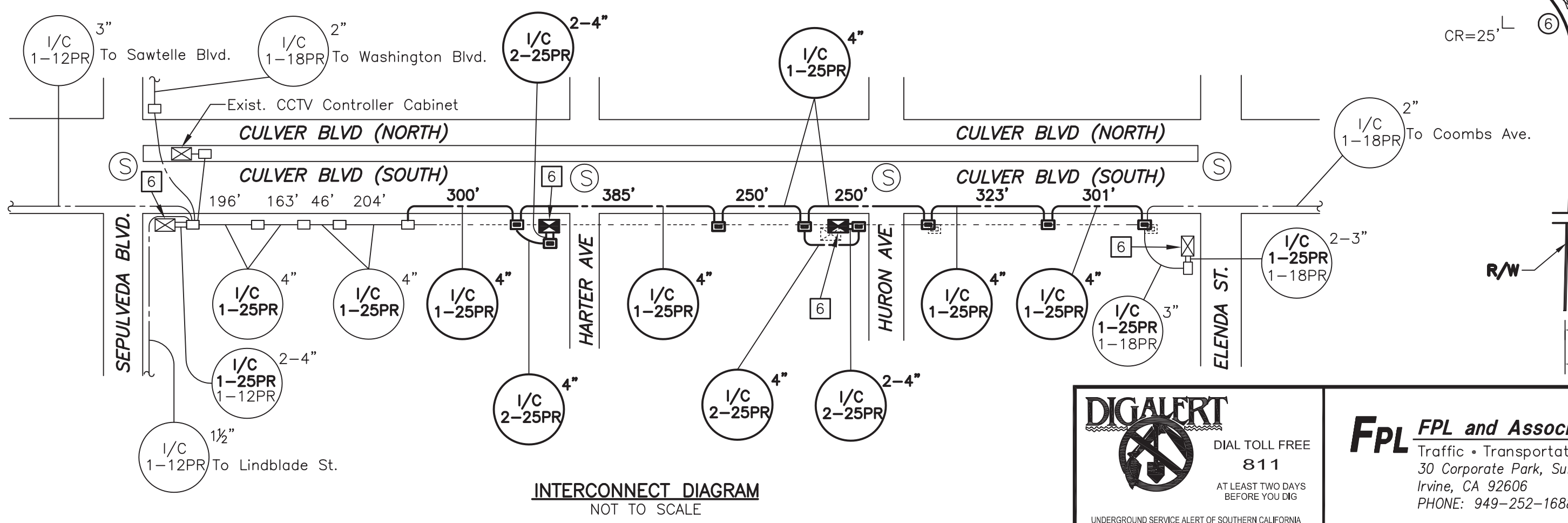
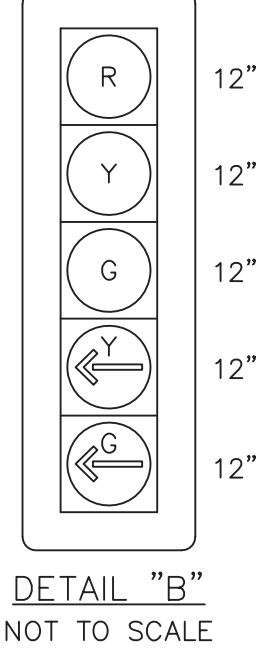
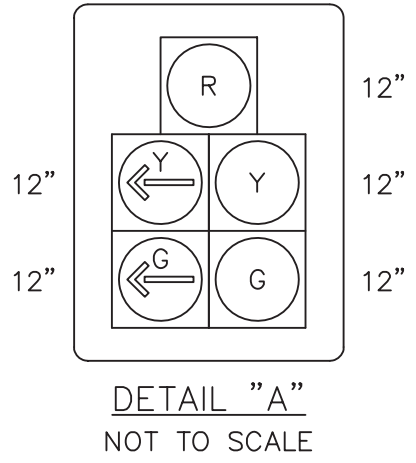
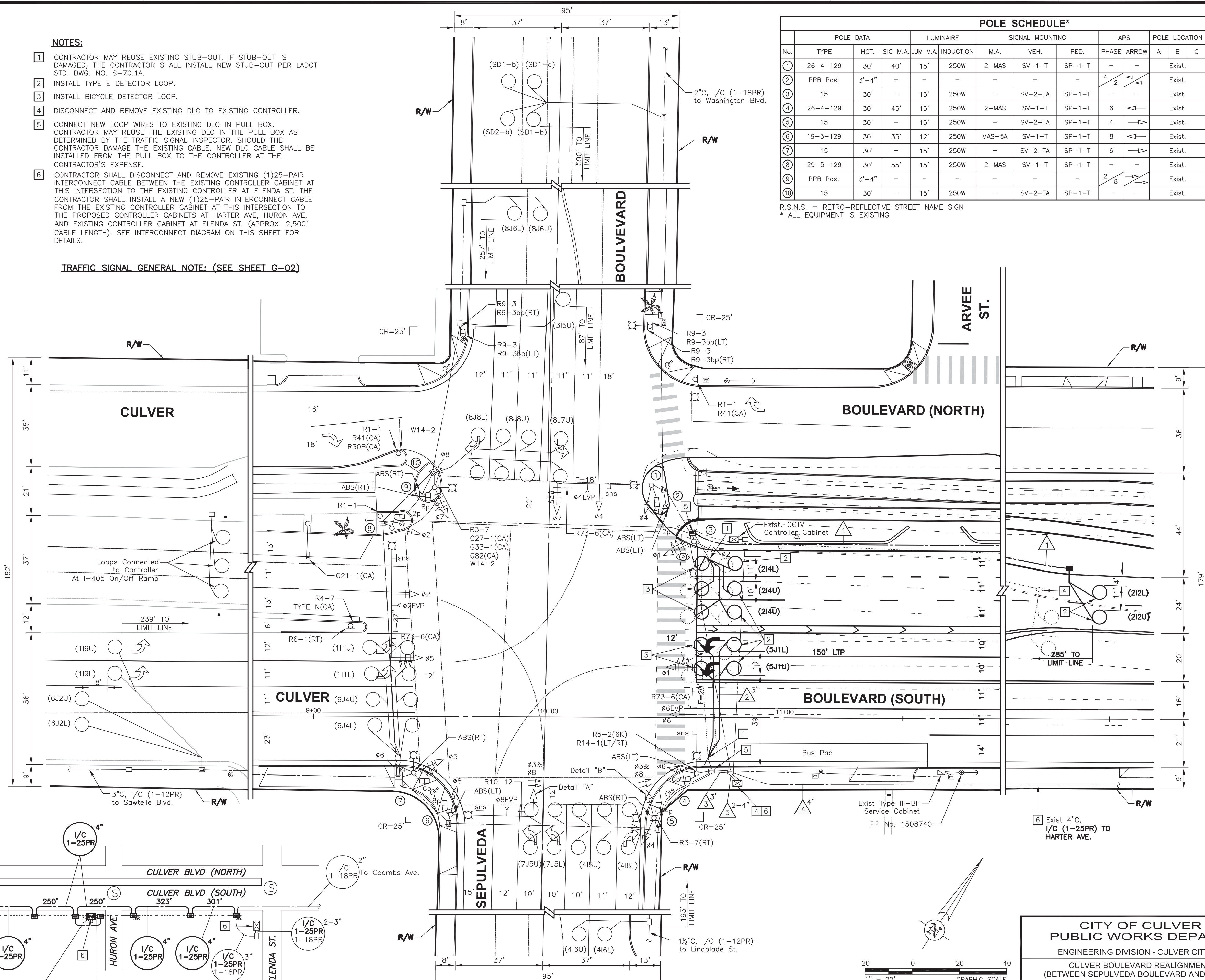
NOTES:

- CONTRACTOR MAY REUSE EXISTING STUB-OUT. IF STUB-OUT IS DAMAGED, THE CONTRACTOR SHALL INSTALL NEW STUB-OUT PER LADOT STD. DWG. NO. S-70.1A.
- INSTALL TYPE E DETECTOR LOOP.
- INSTALL BICYCLE DETECTOR LOOP.
- DISCONNECT AND REMOVE EXISTING DLC TO EXISTING CONTROLLER.
- CONNECT NEW LOOP WIRES TO EXISTING DLC IN PULL BOX. CONTRACTOR MAY REUSE THE EXISTING DLC IN THE PULL BOX AS DETERMINED BY THE TRAFFIC SIGNAL INSPECTOR. SHOULD THE CONTRACTOR DAMAGE THE EXISTING CABLE, NEW DLC CABLE SHALL BE INSTALLED FROM THE PULL BOX TO THE CONTROLLER AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING (1)25-PAIR INTERCONNECT CABLE BETWEEN THE EXISTING CONTROLLER CABINET AT THIS INTERSECTION TO THE EXISTING CONTROLLER AT ELENDA ST. THE CONTRACTOR SHALL INSTALL A NEW (1)25-PAIR INTERCONNECT CABLE FROM THE EXISTING CONTROLLER CABINET AT THIS INTERSECTION TO THE PROPOSED CONTROLLER CABINETS AT HARTER AVE, HURON AVE, AND EXISTING CONTROLLER CABINET AT ELENDA ST. (APPROX. 2,500' CABLE LENGTH). SEE INTERCONNECT DIAGRAM ON THIS SHEET FOR DETAILS.

TRAFFIC SIGNAL GENERAL NOTE: (SEE SHEET G-02)

POLE DATA		SIGNAL MOUNTING*										POLE LOCATION			R.S.N.S	
No.	TYPE	HGT.	SIG	M.A.	LUM	M.A.	INDUCTION	M.A.	VEH.	PED.	PHASE	ARROW	A	B	C	R.S.N.S
1	26-4-129	30'	40'	15'	250W	2-MAS	SV-1-T	SP-1-T	-	-	-	-	Exist.	-	-	Culver Blvd
2	PPB Post	3'-4"	-	-	-	-	-	-	-	-	4	2	Exist.	-	-	-
3	15	30'	-	15'	250W	-	SV-2-TA	SP-1-T	-	-	-	-	Exist.	-	-	-
4	26-4-129	30'	45'	15'	250W	2-MAS	SV-1-T	SP-1-T	6	←	←	←	Exist.	-	-	Sepulveda Blvd
5	15	30'	-	15'	250W	-	SV-2-TA	SP-1-T	4	←	←	←	Exist.	-	-	-
6	19-3-129	30'	35'	12'	250W	MAS-5A	SV-1-T	SP-1-T	8	←	←	←	Exist.	-	-	Culver Blvd
7	15	30'	-	15'	250W	-	SV-2-TA	SP-1-T	6	←	←	←	Exist.	-	-	-
8	29-5-129	30'	55'	15'	250W	2-MAS	SV-1-T	SP-1-T	-	-	-	-	Exist.	-	-	Sepulveda Blvd
9	PPB Post	3'-4"	-	-	-	-	-	-	-	-	2	8	Exist.	-	-	-
10	15	30'	-	15'	250W	-	SV-2-TA	SP-1-T	-	-	-	-	Exist.	-	-	-

R.S.N.S. = RETRO-REFLECTIVE STREET NAME SIGN
* ALL EQUIPMENT IS EXISTING



**CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT**
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

TRAFFIC SIGNAL PLAN
CULVER BOULEVARD
SEPULVEDA BOULEVARD

REVIEWED BY AND APPROVED BY
SEE TITLE SHEET

SHEET
TS-3
SHEET 35 OF 85 SHEETS

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Irvine, CA 92606
PHONE: 949-252-1688

PROFESSIONAL ENGINEER
FONG-PING LEE
Exp. 03-31-21
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Fong-Ping Lee
C 40869 EXP. 05/31/19 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE



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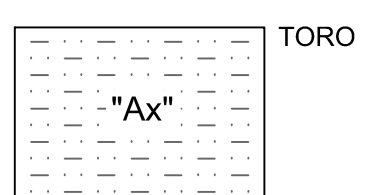
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IRRIGATION NOTES

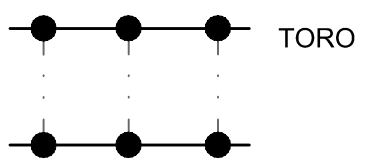
SYMBOL	MFR.	MODEL NO. / DESCRIPTION
IRRIGATION UTILITIES		
	P.O.C.	NEW 2" POTABLE WATER METER WITH 2" SERVICE LINE PER SWS STANDARD DRAWINGS 112 AND 113. CONTRACTOR SHALL SUPPLY ALL HARDWARE AND FITTINGS REQUIRED TO CONNECT IRRIGATION MAINLINE IMMEDIATELY DOWNSTREAM OF METER OUTLET, BEFORE ANY EXISTING EQUIPMENT. CONTRACTOR SHALL VERIFY METER LOCATION, SIZE, SERVICE LINE SIZE, AND STATIC WATER PRESSURE BEFORE COMMENCING WORK.
	FEBCO	1 1/2" REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY, MODEL 825YA, WITH WYE STRAINER #650A. INSTALL CENTERED ON A 30"x36"x4" POURED-IN-PLACE CONCRETE PAD. UNIT TO BE INSTALLED WITHIN V.I.T. STAINLESS STEEL ENCLOSURE. CONTRACTOR SHALL DETERMINE EXACT LOCATION WITH THE CITY'S AUTHORIZED REPRESENTATIVE BEFORE INSTALLATION.
NO SYMBOL	V.I.T.	BACKFLOW ASSEMBLY ENCLOSURE, MODEL SBBC-22SS. INSTALL ON CONCRETE PAD WITH BF ASSEMBLY CENTERED. CONCRETE PAD TO EXTEND 6" BEYOND OUTSIDE DIMENSIONS OF ENCLOSURE. REFER TO MANUFACTURER'S INSTALLATION DETAIL AND SPECIFICATIONS FOR ADDITIONAL INSTALLATION INFORMATION.
	NIBCO	MAINLINE ISOLATION FULL PORT BRONZE BALL VALVE, WITH STAINLESS STEEL HANDLE AND NUT OPTION, MODEL B-58570-SSHN, UPC# 039923680426. INSTALLED WITH HANDLE ON SIDE. LINE SIZE UP TO 2 INCH, 2" SIZE UP TO 3 INCH PIPE.
	SUPERIOR	1 1/2" MASTER CONTROL VALVE: NORMALLY OPEN, MODEL 3300. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
	SUPERIOR	1 1/2" MASTER CONTROL VALVE: NORMALLY CLOSED, MODEL 3200. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. (OPENED TO ALLOW POTABLE WATER SUPPLY WHEN WET WELL IS OFFLINE).
	TORO	QUICK COUPLER VALVE 470 SERIES WITH LOCKING COVER, MODEL 100-2SLVVC. CONTRACTOR SHALL SUPPLY 1 QC KEY, MODEL 100-SLK, PER 5 QCV'S. TURN OVER QC KEYS TO THE CITY AT COMPLETION OF MAINTENANCE PERIOD.
NO SYMBOL	LASCO	MANIFOLD ISOLATION VALVE: SLO-CLOSE FULL BLOCK TRUE UNION 'SOCKET' PVC BALL VALVE WITH EPDM O-RINGS, MODEL VXX101N-SC. CONTRACTOR SHALL INSTALL ALL RCVS/QCV'S ON MANIFOLDS. VALVE TO MATCH MANIFOLD SIZE. VALVE MANIFOLDS WITH ISOLATION VALVE ARE NOT SHOWN ON PLANS FOR CLARITY.
	TORO	DRIP ZONE VALVE KIT 1": MODEL DZK-700-1-MF 700 ULTRA FLOW, INLINE, MEDIUM-FLOW WITH 150 MESH/100 MICRONS Y FILTER AND PRESSURE REGULATOR. INSTALL BALL VALVE ON UPSTREAM SIDE OF VALVE FOR ISOLATION.
IRRIGATION PIPE/SLEEVE		
	AS APRVD	PURPLE PVC PIPE, SCH 40, 1" - 2", AS LATERAL LINES. 12" BELOW GRADE. SEE PLAN FOR SIZES
	AS APRVD	PURPLE PVC PIPE, SCH 40, AS MANIFOLD PIPE (HEADERS/FOOTERS), MINIMUM SIZES FOR SUB-SURFACE DRIP ZONES: USE 3/4" PIPE: FOR INDIVIDUAL, OR CONNECTED LANDSCAPE MEDIANS WITHIN A ZONE, WITH A TOTAL OF 460' OR LESS TOTAL LINEAR FT. TUBING USE 1" PIPE: FOR INDIVIDUAL, OR CONNECTED LANDSCAPE MEDIANS WITHIN A ZONE, WITH 461'-1050' TOTAL LINEAR FT. TUBING USE 1-1/4" PIPE: FOR INDIVIDUAL, OR CONNECTED LANDSCAPE MEDIANS WITHIN A ZONE, WITH 1051'-2250' TOTAL LINEAR FT. TUBING USE 1-1/2" PIPE: FOR INDIVIDUAL, OR CONNECTED LANDSCAPE MEDIANS WITHIN A ZONE, WITH 2251'-3750' TOTAL LINEAR FT. TUBING
	AS APRVD	PURPLE PVC PIPE, SCH 40, AS MAINLINES, 24"-36" BELOW GRADE. SEE PLAN FOR SIZES. INSTALL WITH T. CHRISTY 6" WIDE METALLIC DETECTABLE MARKER TAPE, MODEL TA-DT-6-BL.
NO SYMBOL	AS APRVD	PURPLE PVC PIPE, SCH 40, SIZE AS REQUIRED, FOR RCV/QCV MANIFOLDS, 18" BELOW GRADE. MANIFOLDS AND PIPE ARE NOT SHOWN ON PLAN FOR CLARITY. MANIFOLD PIPE SIZE SHALL BE SAME AS LARGEST LATERAL SIZE IN MANIFOLD. USE 1-1/4" FOR QCV MANIFOLD.
	AS APRVD	PIPE AND WIRE SLEEVES, ASTM D3034 PVC GRAVITY SEWER PIPE, MINIMUM TWICE THE DIAMETER OF PIPE CARRIED AND MINIMUM 1-1/2" PIPE FOR WIRE CARRIED. PLACE BELOW ALL PAVING, HARDSCAPE, ETC, AND AS DIRECTED BY CITY'S AUTHORIZED REPRESENTATIVE.
	AS APRVD	FOR BRIDGE CROSSINGS, GALVANIZED STEEL PIPE, MINIMUM TWICE THE DIAMETER OF PIPE CARRIED.
	AS APRVD	2" ELECTRICAL CONDUIT. ROUTE CONDUIT ALONG MAINLINE WHERE SHOWN ON PLANS. (NOT SHOWN ON PLAN FOR CLARITY)
IRRIGATION P.O.C.		
	N/A	CONNECTION TO STORM WATER CAPTURE TANK (PUMP SYSTEM), CONTRACTOR SHALL SUPPLY ALL HARDWARE AND FITTINGS REQUIRED TO CONNECT PROPOSED IRRIGATION MAINLINE TO PUMP SYSTEM. CONTRACTOR SHALL VERIFY MAINLINE LOCATION, SIZE, AND STATIC WATER PRESSURE BEFORE COMMENCING WORK.
IRRIGATION CONTROLLER		
	CALSENSE	ET2000e-48-M-F-G ET,RAIN AND SOIL MOISTURE DRIVEN IRRIGATION CONTROLLER WITH FLOW METER FM-1B
	N/A	117 VOLT ELECTRICAL POWER, PROVIDED BY ELECTRICIAN. CONTRACTOR SHALL COORDINATE AND VERIFY CONTROLLER PEDESTAL LOCATION IN FIELD WITH ELECTRICIAN. ELECTRICIAN SHALL ROUTE AND INSTALL ALL CONDUIT AND CONDUCTORS TO WITHIN THE CONTROLLER PEDESTAL LOCATION. IRRIGATION CONTRACTOR SHALL CONNECT IRRIGATION CONTROLLER TO ELECTRICAL STUB-OUT. CONTROLLER CIRCUIT SHALL BE SUPPLIED FROM A DEDICATED BREAKER FROM THE POWER SOURCE.
NO SYMBOL	AS APRVD	CONTROLLER GROUNDING EQUIPMENT KIT. CONTRACTOR SHALL GROUND CONTROLLER PER MANUFACTURER'S SPECIFICATIONS, BUT NOT LESS THAN PER LOCAL AND NATIONAL ELECTRICAL CODE. GRD. WIRE / GRD. ROD / GRD. PLATE CONNECTIONS SHALL BE BY CADWELD PROCESS ONLY. MAXIMUM RESISTANCE SHALL BE NO MORE THAN 10 OHMS. CONTRACTOR SHALL PROVIDE PROOF OF MEASURED RESISTANCE TO CITY'S AUTHORIZED REPRESENTATIVE BEFORE MAINTENANCE PERIOD BEGINS AND INCLUDE DOCUMENT WITHIN SUBMITTED MAINTENANCE MANUAL.

SYMBOL MFR. MODEL NO. / DESCRIPTION

SUBSURFACE IRRIGATION



NO SYMBOL TORO



TORO

TORO

SHRUB PLANTING AREAS: LINES SHOWN ARE A DIAGRAMMATIC HATCH PATTERN ONLY. SUB-SURFACE DRIP TUBING, MODEL DL2000 PC PURPLE DRIPLINE W/ ROOTGUARD MODEL NO. RGP-418-05-E 1.0 GPH EMITTERS @ 18" ON-CENTER. INSTALL TUBING ROWS MAXIMUM OF 24" APART IN SHRUB AREAS. INSTALL PERIMETER TUBING MAXIMUM 6" FROM PERIMETER EDGE FOR GROUND COVER AREAS OR AT FIRST LINE OF SHRUBS. INSTALL PARALLEL TO SLOPE AT ALL TIMES. CONTRACTOR SHALL DETERMINE MINIMUM ROW SPACING IN THE FIELD AFTER REVIEW OF PLANT SPACING FOR EACH PLANTER. EACH AND EVERY SHRUB SHALL RECEIVE WATER FROM A MINIMUM OF TWO IN-LINE EMITTERS. AREAS OF TIGHTLY SPACED GROUND COVER WILL REQUIRE CLOSER ROW SPACING. FOR ANY 'SINGLE' OR 'DOUBLE' ROW TYPE PLANTINGS, INSTALL DRIP TUBING ON BOTH SIDES OF THE SHRUB ROW TO IRRIGATE SHRUBS ON EITHER SIDE. DUE TO SOIL STRATA DIFFERENCES AND POSSIBLE COMPACTION CONTRACTOR SHALL FIELD VERIFY PRIOR TO STARTING WORK AND BEFORE BACKFILLING THAT THE FINAL LAYOUT AND ROW SPACING WILL PROVIDE ADEQUATE WATER TO ALL PLANTS.

*ALL SUB-SURFACE TUBING SHALL BE INSTALLED 6" BELOW FINISH SOIL GRADE ANCHORED WITH TORO DL2000 STEEL SOIL STAPLE, MODEL SS-6-50, OR EQUAL INSTALLED FOUR -SIX FEET ON CENTER AND AT ALL FITTINGS (TEES, ELLS ETC).

ALL CONNECTIONS BETWEEN 1/2" DRIPLINE TUBING SHALL BE MADE USING TORO LOC EZE FITTING (TEE, ELLS ETC).

CONNECTION FITTINGS BETWEEN PVC LATERAL LINES AND DRIPLINE TUBING FOR CENTER FEED SYSTEMS: TORO LOC-EZE x 1/2" MTP ADAPTER MODEL NO. T-FAM16, TORO BLUE STRIPE POLY TUBING MODEL NO. (T-EHD164-XXX) LENGTH AS NECESSARY, TORO LOC-EZE TEE MODEL NO. T-FTT16.

CONNECTION FITTINGS BETWEEN PVC SUPPLY OR EXHAUST HEADER PIPE AND DRIPLINE TUBING: TORO LOC-EZE x 1/2" MPT ADAPTER (T-FAM16).

TORO FLUSH VALVE, PART:(T-FCH-H-FHT) FOR FLUSHING PVC EXHAUST MANIFOLD PIPE WITH STANDARD GARDEN HOSE, INSTALL FLUSH VALVE INSIDE 6" ROUND VALVE BOX, ONE AT THE END OF EACH AND EVERY DRIPLINE TUBING RUN IN EACH DIRECTION. INSTALL ONE FLUSH VALVE WITHIN EACH PLANTER OR PER A MAXIMUM OF 800' OF TUBING MEASURED PER EITHER SIDE OF PVC SUPPLY MANIFOLD(S) FOR EACH ZONE. MULTIPLE FLUSH VALVES MAY BE REQUIRED WITHIN DRIPLINE ZONE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FLUSH VALVES REQUIRED, AS PLANS MAY NOT SHOW ALL FLUSH VALVES REQUIRED FOR A PARTICULAR AREA. INSTALL FINAL LOCATION 18" FROM PAVING FOR EASE OF MAINTENANCE.

TORO AIR/VACUUM RELIEF VALVE: PART:(T-YD-S00-34) INSTALLED WITH 3/8" PVC COUPLING(TxT), 1/2" SCH 80 PVC NIPPLE(LENGTH OF NIPPLE AS REQUIRED SO TOP OF VALVE IS ABOVE SURROUNDING GRADE. INSTALL ARV WITHIN 6" ROUND VALVE BOX AT EVERY HIGH POINT OF EACH AND EVERY PLANTER, INSTALL MINIMUM OF ONE ARV PER 500-550 FEET OF DRIPLINE OR 700-900 SQUARE FEET OF AREA WITHIN ZONE. FOR HIGH POINTS IN MIDDLE OF ZONE: AT EACH ARV LOCATION, USING XF SERIES BLANK TUBING, CONNECT THE BLANK TUBING TO EACH DRIPLINE LATERAL PERPENDICULAR TO ALL DRIPLINE LATERALS WITHIN INFLUENCE OF THE ARV. INSTALL THE ARV ON THE BLANK TUBING AT THE HIGHEST POINT. WHEN PVC MANIFOLD IS AT HIGH POINT: INSTALL ARV ON PVC MANIFOLD. MULTIPLE ARV'S SHALL BE REQUIRED WITHIN UNULATING AREAS, AT EACH HIGH POINT. FOR ZONES WITH MULTIPLE INTERCONNECTING PLANTERS VIA PVC PIPE, ARV'S SHALL BE REQUIRED WITHIN EACH PLANTER. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ARV'S REQUIRED, AS PLANS MAY NOT SHOW ALL ARV'S REQUIRED FOR A PARTICULAR AREA. REVIEW LANDSCAPE AND GRADING PLANS PRIOR TO BIDDING AND STARTING WORK TO VERIFY TOTAL QUANTITY REQUIRED. INSTALL UNITS AND VALVE BOX AT ALL HIGH POINTS OF PLANTER AREA.

TREE IRRIGATION

RAIN BIRD

TREE BUBBLER: RWS-M-B-C-1401, ROOT WATERING SYSTEM WITH 36" TUBE WITH PRESSURE COMPENSATING BUBBLER WITH NON-POTABLE COVER. 0.25 GPM BUBBLER & CHECK VALVE ON RISER, 4" GRATE, VERSATILE SWING ASSEMBLY WITH 1/2" M NPT INLET, EACH SYMBOL REPRESENTS (AT MINIMUM) TWO UNITS. PLACE SPRAY HEADS ON OPPOSITE CORNERS, 6" FROM EDGE OF ROOTBALL. ADJUST LOCATION PER ROOTBALL SIZE.

IRRIGATION MISCELLANEOUS

NO SYMBOL SPEARS

PVC FITTINGS/NIPPLES:
1. REQUIRED FOR ALL SOLVENT WELD MAINLINE FITTINGS 2 INCH (2") TO THREE INCH (3"), USE SPEARS PVC CL 315 BLUE 'EVERTUFF' FITTINGS, MODEL 4XX-XXXX, OR SCH 80 FITTINGS.
2. REQUIRED FOR ALL SOLVENT WELD MAINLINE FITTINGS 4 INCH (4") AND LARGER, USE SPEARS PVC CL 315 BLUE 'EVERTUFF' FITTINGS, MODEL 4XX-XXXX ONLY.
3. REQUIRED FOR ALL FITTINGS WITH A THREADED MALE AND/OR FEMALE COMPONENT 1 INCH (1") OR LARGER, USE SPEARS PVC CL 315 BLUE 'EVERTUFF' TYPE OR SCH 80 FITTINGS. FEMALE FITTINGS REQUIRE STAINLESS STEEL REINFORCED COLLAR.
4. FOR ALL THREADED PLASTIC NIPPLES USE SCH 80 PVC.

NO SYMBOL TORO

SPECIFICATION GRADE IRRIGATION VALVE BOXES FOR IRRIGATION EQUIPMENT: MODELS TVB-6RND-E, TVB-6LID-E, TVB-1217-12BOX-E (PURPLE BOX AND LIDS) OR EQUAL.

NO SYMBOL 3M

WIRE SPLICE CONNECTOR, MODEL DBRY-6 FOR RCV CONNECTIONS AND SPLICES.

NO SYMBOL PAIGE ELECTRIC

IRRIGATION WIRE #12 AWG UF DIRECT BURIAL (U.L. APPROVED) FOR RCV 'CONTROL' WIRES, MODEL P7072-REV 14. IRRIGATION WIRE #12 AWG UF DIRECT BURIAL (U.L. APPROVED) FOR RCV 'COMMON' WIRES, MODEL P7072-REV 14.

NO SYMBOL CHRISTY'S

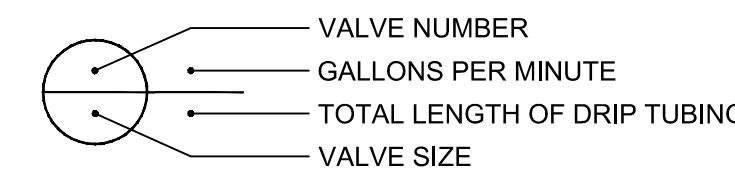
ALL REMOTE CONTROL VALVES SHALL BE OUTFITTED WITH A PURPLE ID TAG INDICATING THE CONTROLLER AND VALVE NUMBER.

NO SYMBOL N/A

CONTRACTOR SHALL COORDINATE ALL CONDUITS, SLEEVES, AND WIRE ROUTING WITH GENERAL CONTRACTOR AND ANY AFFECTED ON-SITE TRADES AS REQUIRED THROUGHOUT PROJECT.

NO SYMBOL CHRISTY'S

6" WIDE METALLIC DETECTABLE MARKER TAPE, MODEL TA-DT-6-BL. TAPE SHALL BE INSTALLED 12" ABOVE ALL IRRIGATION MAINLINES AND SLEEVES.



DIAMETER (IN.)	FLOW RATE (GPM)
3/4	8
1	13
1 1/4	23
1 1/2	32
2	53

NOTE:
ALL END RUNS OF LATERAL PIPE SHALL BE A MINIMUM OF 3/4" SIZE PIPE.

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CITY OF CULVER CITY PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION - CULVER CITY, CALIFORNIA CULVER BOULEVARD REALIGNMENT PROJECT (BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)	
IRRIGATION LEGEND	
REVIEWED BY AND APPROVED BY SEE TITLE SHEET	SHEET IR-01 SHEET 36 OF 85 SHEETS

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Exp. 6-30-19
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STATE OF CALIFORNIA

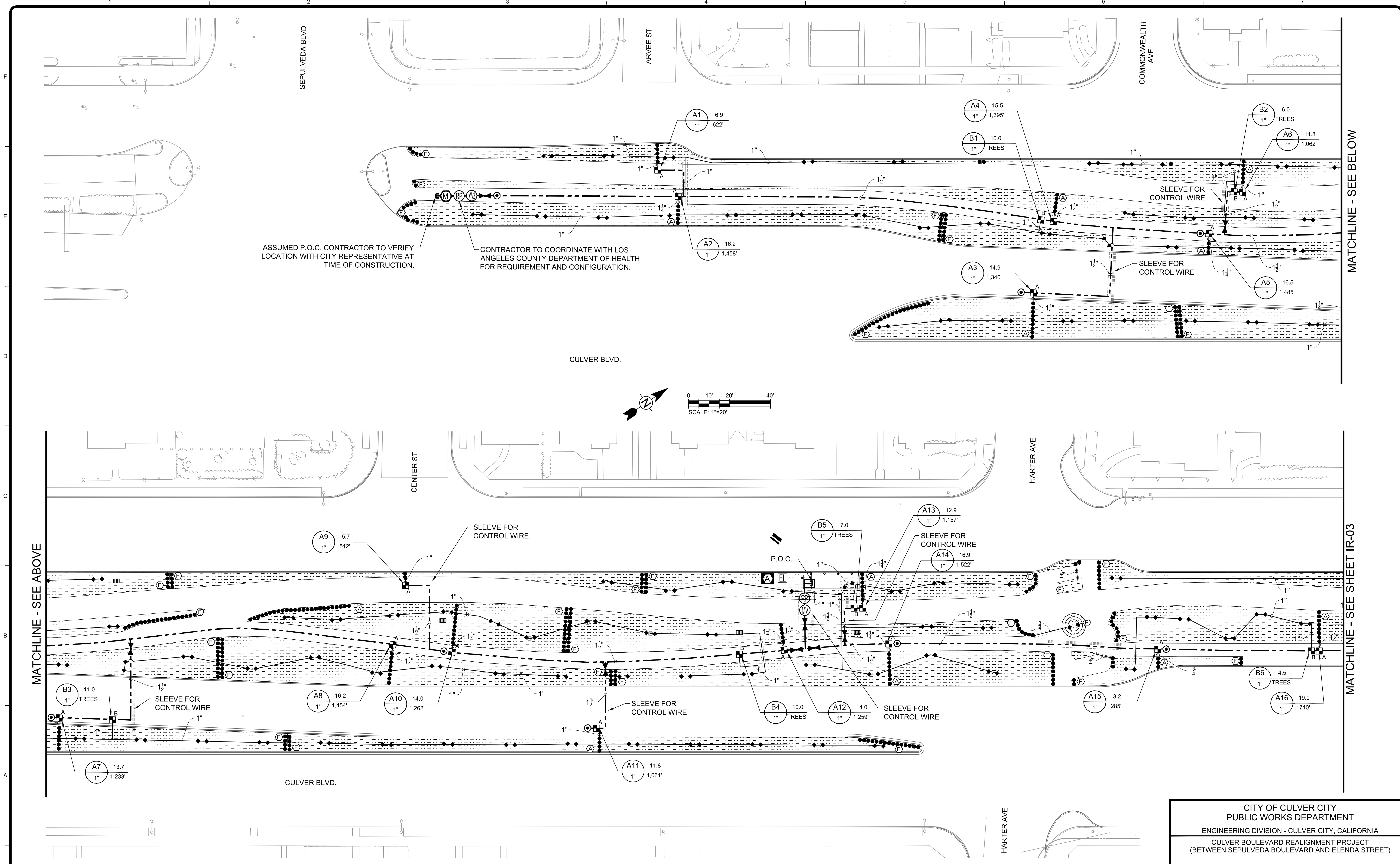
PLANS PREPARED UNDER THE SUPERVISION OF:
05/20/2019
JASON FUSSEL RCE-70879 EXP. 06/30/19 DATE
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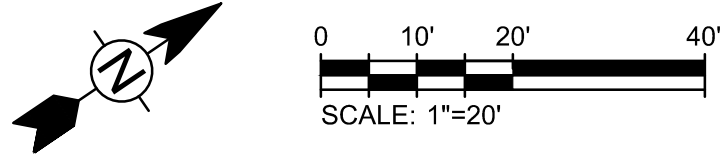
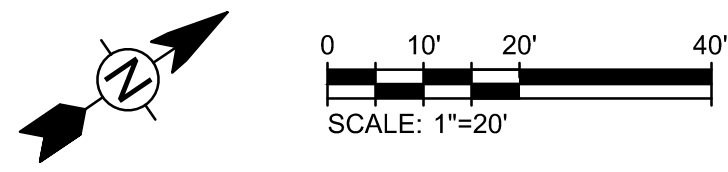
Bar Measures 1 inch

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ASSUMED P.O.C. CONTRACTOR TO VERIFY LOCATION WITH CITY REPRESENTATIVE AT TIME OF CONSTRUCTION.

CONTRACTOR TO COORDINATE WITH LOS ANGELES COUNTY DEPARTMENT OF HEALTH FOR REQUIREMENT AND CONFIGURATION.



MATCHLINE - SEE ABOVE

MATCHLINE - SEE SHEET IR-03

MATCHLINE - SEE BELOW

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

IRRIGATION PLAN

REVIEWED BY AND APPROVED BY
SEE TITLE SHEET

SHEET
IR-02
SHEET 37 OF 85 SHEETS

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REGISTERED PROFESSIONAL ENGINEER
JASON L. FUSSELL
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STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
05/20/2019
DATE
JASON FUSSELL RCE 70879 EXP. 06/30/19
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

Bar Measures 1 inch

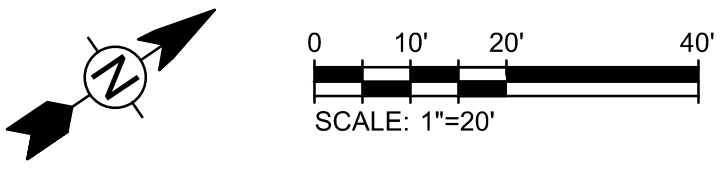
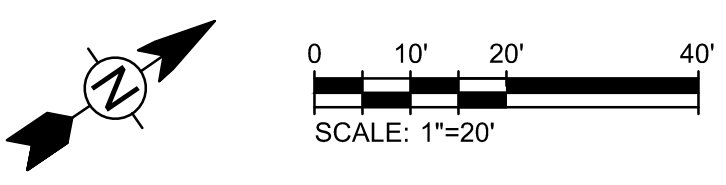
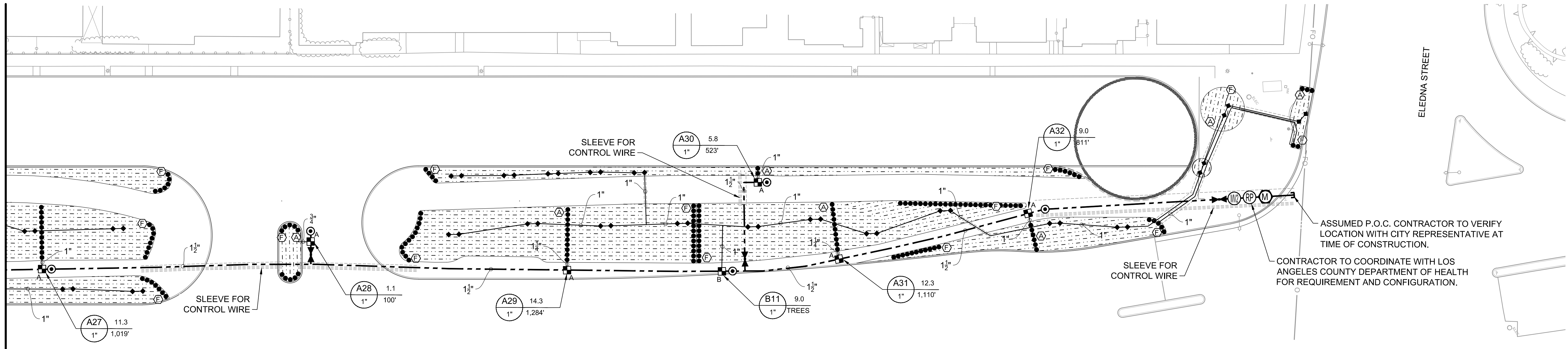
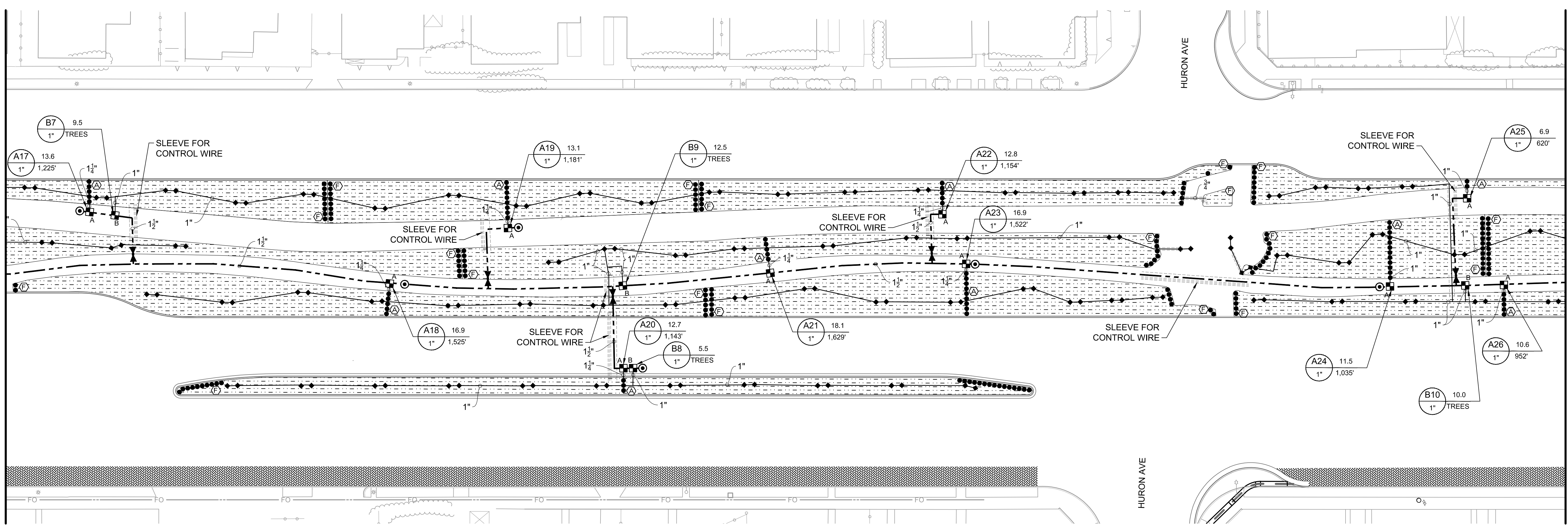
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6/5/2019 8:00:06 AM - C:\PROJECTS\IRVINE\154197200-154197-1800\1CAD\SHEETFILES\IR-03 IRRIGATION PLAN.DWG - MCCOLLUM, AUSTIN

MATCHLINE - SEE SHEET IR-02

MATCHLINE - SEE ABOVE

MATCHLINE - SEE BELOW



ASSUMED P.O.C. CONTRACTOR TO VERIFY LOCATION WITH CITY REPRESENTATIVE AT TIME OF CONSTRUCTION.
CONTRACTOR TO COORDINATE WITH LOS ANGELES COUNTY DEPARTMENT OF HEALTH FOR REQUIREMENT AND CONFIGURATION.

CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

IRRIGATION PLAN

REVIEWED BY AND APPROVED BY
SEE TITLE SHEET

SHEET
IR-03
SHEET 38 OF 85 SHEETS

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REGISTERED PROFESSIONAL ENGINEER
JASON L. FUSSEL
No. 70879
Exp. 6-30-19
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Jason Fussel
05/20/2019 DATE
JASON FUSSEL RCE 70879 EXP. 06/30/19 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

Bar Measures 1 inch

5049-212

IRRIGATION NOTES

GENERAL IRRIGATION NOTES:

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROCURE AN ORIGINAL SET OF THESE PRINTED IRRIGATION PLANS FOR BIDDING AND CONSTRUCTION.
- XEROX COPIES OF THESE PLANS ARE NOT ALLOWED FOR BIDDING AND CONSTRUCTION AS THEY MAY NOT SHOW IRRIGATION SYMBOLS, LINE WEIGHTS, OR LINE TYPES CLEARLY.
- 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.
- THE CONTRACTOR SHALL VERIFY SITE CONDITIONS, PROPERTY LINES, DIMENSIONS AND 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 CITY'S REPRESENTATIVE. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH ALL SITE CONDITIONS PRIOR TO BIDDING AND COMMENCING WORK.
- THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
- THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
- THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SYMBOL SIZES ARE SHOWN FOR DESIGN CLARITY ONLY. CONTRACTOR SHALL MEASURE ALL DISTANCES AND SPACING FROM CENTER OF SYMBOLS ON THE PLAN AND TRANSFER THOSE DISTANCES TO THE FIELD USING A PROPER MEASURING DEVICE SUCH AS A MEASURE TAPE OR WHEEL.
- THE CONTRACTOR UNDERSTANDS IT IS THE INTENT OF THESE DRAWINGS TO IRRIGATE ALL NEW PLANT MATERIAL, AND EXISTING PLANT MATERIAL AS REQUIRED, UNLESS SPECIFICALLY NOTATED IN THE DRAWINGS THAT A PLANT MATERIAL IS A NON-IRRIGATED TYPE. WHEN PLANT MATERIAL IS SHOWN IN THESE DRAWINGS TO NOT HAVE IRRIGATION SUBSCRIBED TO IT, THE CONTRACTOR SHALL CONTACT THE CITY'S AUTHORIZED REPRESENTATIVE AND/OR THE LANDSCAPE ARCHITECT THROUGH THE PROJECT "REQUEST FOR INFORMATION" (R.F.I.) PROCESS FOR CLARIFICATION AND FURTHER DIRECTION. IT IS THE INTENT OF THESE DRAWINGS THAT ALL NEW PLANT MATERIAL RECEIVE A MINIMUM OF 100% IRRIGATION COVERAGE FROM TWO ADJACENT SPRINKLERS WHEN OVERHEAD SYSTEMS ARE USED, AND AT LEAST ONE OR MORE EMITTER POINTS PER PLANT, AS DIRECTED IN THE DRIP EMITTER LEGEND, WHEN IRRIGATION DRIP SYSTEMS ARE USED. IF THE CONTRACTOR FAILS TO NOTIFY THE CITY'S AUTHORIZED REPRESENTATIVE AND/OR THE LANDSCAPE ARCHITECT OF A DISCREPANCY THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR IRRIGATION TO THE PLANT MATERIAL. IRRIGATION SHALL BE OF THE SAME TYPE AS THE SURROUNDING AREA. ULTIMATELY, IT IS RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE IRRIGATION TO EVERY PLANT THAT IS INSTALLED UNDER HIS SUPERVISION.

EQUIPMENT / P.O.C. NOTES:

- VERIFY THE ACTUAL LOCATION AND SIZE OF WATER METER AND BOTH STATIC AND DYNAMIC WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. IF ANY OF THE P.O.C INFORMATION SHOWN ON THESE DRAWINGS IS FOUND TO BE DIFFERENT THAN THE ACTUAL P.O.C. INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY LANDSCAPE ARCHITECT. SHOULD THE CONTRACTOR FAIL TO FIELD VERIFY THE P.O.C. INFORMATION AND NOTIFY THE ABOVE, ANY ADDITIONAL COSTS INCURRED BY CHANGES REQUIRED TO BE MADE TO THE IRRIGATION SYSTEM BECAUSE OF LOW OR HIGH PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- P.O.C. EQUIPMENT LAYOUT INCLUDING, BUT NOT LIMITED TO, IRRIGATION WATER METER, ELECTRICAL STUB-OUT, BACKFLOW ASSEMBLY, AND MASTER VALVE IS DIAGRAMMATIC DUE TO THE SCALE OF THE DRAWING. LOCATIONS MAY BE SHOWN WITHIN PAVING AND/OR ORIENTED IN A CERTAIN DIRECTION FOR CLARITY ONLY. PLAN DOES NOT ACCOUNT FOR EQUIPMENT BY OTHERS WITHIN VICINITY OF P.O.C. CONTRACTOR SHALL VERIFY SPECIFIC LAYOUT ORIENTATION AND ACTUAL EQUIPMENT LOCATIONS WITH CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION OF EQUIPMENT.
- ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTION DEVICE AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE CITY'S AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL CONTACT REPRESENTATIVE BEFORE COMMENCING WORK.
- THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT WHERE SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT CONDITIONS EXIST, WHICH ARE NOT INDICATED ON THE PLANS. SUCH CONDITIONS MAY HAVE BEEN UNKNOWN AND NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT AND/OR CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK. SHOULD THE CONTRACTOR FAIL TO NOTIFY THE ABOVE, ANY ADDITIONAL COSTS INCURRED BY REQUIRED CHANGES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE CITY.
- INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.

CONTROLLER / WIRE NOTES:

- CONTRACTOR SHALL REFER TO IRRIGATION LEGEND FOR CONTROLLER TYPE. FINAL LOCATION OF CONTROLLER AND ELECTRICAL P.O.C. SHALL BE CONFIRMED WITH THE CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL COORDINATE AND VERIFY CONTROLLER PEDESTAL LOCATION IN FIELD WITH ELECTRICIAN FOR CONTROLLER POWER CIRCUIT ROUTING.
- CONNECTION OF IRRIGATION CONTROLLER TO THE PROVIDED ELECTRICAL STUB-OUT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR AND INSTALLATION THEREOF SHALL BE PER LOCAL CODE REQUIREMENTS. CONTRACTOR MAY CHOOSE, IF SO DESIRED, TO SUB THIS WORK TO THE ELECTRICAL CONTRACTOR.
- CONTROLLER POWER SOURCE SHALL BE SUPPLIED FROM A 'CONTROLLER' DEDICATED CIRCUIT BREAKER.
- CONTRACTOR SHALL ROUTE **THREE** ADDITIONAL 'CONTROL' WIRES AND **ONE** ADDITIONAL 'COMMON' WIRE ALONG ENTIRE MAINLINE ROUTE AND ALONG EACH AND EVERY LEG OF MAINLINE ROUTE. ROUTE WIRES INTO EACH AND EVERY RCV VALVE BOX. WHERE VALVE BOXES ARE GROUPED INTO A MANIFOLD, ROUTE WIRES INTO FIRST VALVE BOX ON MANIFOLD ONLY. SPARE 'CONTROL' WIRES SHALL BE OF A DIFFERENT COLOR THAN THOSE USED ON THE PROJECT. 'COMMON' WIRE SHALL BE OF A DIFFERENT COLOR THAN THAT USED ON THE PROJECT, OR WHITE WITH A STRIPE.
- CONTRACTOR SHALL INSTALL METER WIRE/CABLE WITHIN 1" SCH 40 PVC ELECTRICAL CONDUIT.

SYSTEM GROUNDING NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR GROUNDING CONTROLLER PER MANUFACTURERS REQUIREMENTS. CONTRACTOR SHOULD CONTACT CONTROLLER MANUFACTURER FOR GROUNDING INSTALLATION INFORMATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM AND WORK WITH THE ELECTRICAL CONTRACTOR SO AS TO PROVIDE ADEQUATE GROUNDING AS DETERMINED BY CONTROLLER MANUFACTURER.
- CONTRACTOR SHALL USE U.L. APPROVED GROUND ROD AND GROUND PLATE WITH CADWELD 'ONE-SHOT' CONNECTION PROCESS FOR CONNECTING THE #6 AWG GROUND WIRE FROM THE CONTROLLER GROUND LUG TO THE ROD. MAXIMUM GROUND RESISTANCE SHALL BE PER CONTROLLER MANUFACTURERS SPECIFICATIONS, BUT NOT GREATER THAN 10 OHMS.
- CONTRACTOR SHALL REFER TO DETAIL 5 ON SHEET IR-05 FOR SYSTEM GROUNDING INSTALLATION. ALSO CONTRACTOR MAY CONTACT CONTROLLER ASSEMBLY MANUFACTURER FOR ADDITIONAL CONTROLLER GROUNDING INSTALLATION INFORMATION.

RCV / QCV NOTES:

- REMOTE 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 THE CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION OF ALL VALVES. FINAL LOCATION AND EXACT POSITIONING FOR ELECTRIC CONTROL VALVES AND ISOLATION VALVES SHALL BE DETERMINED BY THE CITY'S AUTHORIZED REPRESENTATIVE. MINOR MODIFICATIONS OF REMOTE CONTROL VALVES AND ISOLATION VALVE LOCATIONS AS REQUESTED BY THE CITY'S AUTHORIZED REPRESENTATIVE SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT. FAILURE TO OBTAIN CITY'S APPROVAL PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE PROJECT DIRECTED REVISIONS AT NO ADDITIONAL COST TO THE CITY. IN GENERAL, UNLESS OTHERWISE DIRECTED BY THE CITY, ALL VALVES SHALL BE INSTALLED WITHIN THREE FEET FROM EDGE OF HARDSCAPE, WALK OR CURB IN SHRUB PLANTING AREAS.
- ALL RCV'S AND QCV'S SHALL BE INSTALLED ON A SUB-MAIN MANIFOLD AS SHOWN IN DETAILS. RCV AND QCV SYMBOLS ARE SHOWN DIAGRAMMATICALLY ON TOP OF MAINLINE FOR CLARITY ONLY. PLAN DOES NOT SHOW THE MANIFOLD FOR CLARITY PURPOSES.
- ALL QUICK COUPLER VALVES SHALL TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER VALVES SHALL BE INSTALLED AS SHOWN IN THE INSTALLATION DETAILS. INSTALL QUICK COUPLERS WITHIN 18 INCHES OF HARDSCAPE. CONTRACTOR SHALL TEE OFF OF MAINLINE WITH 1-1/4 INCH MAINLINE PIPE WHERE APPLICABLE TO LOCATE QUICK COUPLER VALVE WITHIN ADJACENT SHRUB OR GROUND COVER AREAS AND/OR 18 INCHES FROM HARDSCAPE.

PIPE / SLEEVE NOTES:

- MAINLINE LAYOUT IS DIAGRAMMATIC DUE TO THE SCALE OF THE DRAWINGS. ROUTING MAY BE SHOWN WITHIN PAVING FOR CLARITY ONLY. ACTUAL MAINLINE LOCATION TO

- BE WITHIN PLANTER, A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES TYP. CONTRACTOR SHALL ADJUST MAINLINE ROUTING TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR, INCLUDING BUT NOT LIMITED TO TREES, LIGHT POLES, BOLLARDS, FIRE HYDRANTS, DRINKING FOUNTAINS, CONCRETE FOOTINGS, ETC.
- MAINLINE AND/OR LATERAL PIPE ROUTING SHOWN OUTSIDE PROPERTY LINE AND/OR L.O.W. IS DIAGRAMMATIC AND FOR CLARITY ONLY. CONTRACTOR SHALL ROUTE MAINLINE WITHIN PROPERTY LINE AND/OR L.O.W.
- ALL PIPE MATERIAL AND INSTALLATION LABOR REQUIRED FOR MAINLINE OR LATERAL LINE ADJUSTMENTS DUE TO ACCOMMODATIONS IN THE FIELD SHALL BE INCLUDED WITHIN CONTRACTED PRICE AND MAY NOT BE SUBMITTED AS A CHANGE ORDER TO THE ORIGINAL BID.
- NO PVC PIPE MAINLINES SHALL BE ROUTED OR ALLOWED CLOSER THAN 6 FEET FROM ANY TREE TRUNK AT ANY TIME. PIPE ROUTING AS SHOWN ON PLANS IS FOR DIAGRAMMATIC PURPOSES ONLY. WHEN PIPE MUST BE ROUTED CLOSER THAN 6 FEET BECAUSE OF HARDSCAPE CONSTRAINTS OR OTHER OBSTACLES CONTRACTOR SHALL INSTALL MAINLINE PIPE WITHIN SLEEVE WHERE PIPE IS WITHIN 6 FEET OF THE TRUNK AND SO INDICATE THE PIPE ROUTING AND SLEEVE LOCATIONS ON THE AS-BUILT DRAWINGS.
- SLEEVES AND THEIR LOCATIONS ARE DIAGRAMMATICALLY SHOWN FOR CLARITY ONLY. ALL IRRIGATION SLEEVES MAY NOT BE SHOWN FOR CLARITY PURPOSES. CONTRACTOR SHALL INSTALL SLEEVES BELOW ALL PAVING, HARDSCAPE, ETC. AND AS DIRECTED BY THE CITY'S AUTHORIZED REPRESENTATIVE. ALL PIPE UNDER PAVED AREAS SHALL BE INSTALLED IN A SLEEVE, AT MINIMUM TWICE THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR TYPE. ALL SLEEVES TO BE INSTALLED A MINIMUM DEPTH AS SHOWN ON THE PIPE/SLEEVE DETAIL. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
- ALL SLEEVE ENDS MUST BE SEALED WITH FOAM SEALANT INSIDE PIPE TO MINIMIZE DEBRIS INTRUSION.
- LATERAL LINES MAY BE SHOWN WITHIN PAVING FOR CLARITY ONLY, ACTUAL LOCATION TO BE WITHIN PLANTER.
- ALL CONTROL WIRE UNDER PAVED AREAS SHALL BE INSTALLED IN A SLEEVE, SEE LEGEND FOR TYPE, AT MINIMUM SIZE: 2 INCH- FOR UP TO 15 WIRES; 2-1/2 INCH- FOR 16-20 WIRES; 3 INCH- FOR 21-55 WIRES. ALL SLEEVES TO BE INSTALLED A MINIMUM DEPTH AS SHOWN ON THE PIPE/SLEEVE DETAIL. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.

DRIP / MICRO-SPRAY SYSTEM NOTES:

- ALL LATERAL LINES FOR DRIP ZONES SHALL BE PURPLE PVC SCH 40 PIPE.
- ALL MAINLINES AND LATERAL LINES SHALL BE THOROUGHLY FLUSHED CLEAN BEFORE DRIP MANIFOLD ASSEMBLIES AND/OR DRIP TUBING CONNECTIONS ARE MADE. ALL DRIP TUBING LINES SHALL BE FLUSHED CLEAN BEFORE BACKFILLING.
- CONTRACTOR SHALL ALWAYS FOLLOW AND ROUTE, PARALLEL TO GRADE, ANY INLINE DRIP TUBING LAYOUT. ALWAYS LAY DRIP LINES PERPENDICULAR TO SLOPE. DO NOT FOLLOW DIRECTIONAL LAYOUT AS SHOWN IN THE PLANS. HATCH PATTERNS SHOWN IN PLANS DRIP AREAS ARE DIAGRAMMATIC ONLY.
- FOR ALL INLINE DRIP TUBING AREAS ON SLOPE THE CONTRACTOR SHALL BE HELD ACCOUNTABLE FOR CREATING A TRIANGULAR WETTING PATTERN ACROSS ANY SLOPE. OFFSET THE EMITTERS BY HALF THE EMITTER SPACING WHEN INSTALLING TUBING TO CREATE A TRIANGULAR WETTING PATTERN ACROSS THE SLOPE. DO NOT INSTALL TUBING WHERE THE EMITTERS ARE DIRECTLY IN LINE (PERPENDICULAR) WITH EACH OTHER.

IDENTIFICATION:

- ALL EXISTING AND PROPOSED WATER LINES (PRESSURE/NON-PRESSURE), VALVE BOXES, HYDRANTS AND APPURTENANCES SHALL BE IDENTIFIED TO CLEARLY DISTINGUISH BETWEEN RECYCLED WATER, NON-POTABLE AND POTABLE WATER SYSTEMS.
 - RECYCLED WATER - ALL BURIED RECYCLED WATER LINES (PRESSURE/NON-PRESSURE) SHALL BE PURPLE COLORED PIPE WITH CONTINUOUS WORDING "CAUTION RECYCLED WATER" PRINTED ON OPPOSITE SIDES OF THE PIPE.
 - PROJECTS UTILIZING EXTENSIVE PIPELINE INSTALLATION SHALL USE PURPLE PIPE PROPERLY STENCILED/LABELED. FOR LIMITED APPLICATION, THE USE OF CONTINUOUS LETTERING ON THREE INCH (3") MINIMUM WIDTH PURPLE TAPE WITH ONE INCH BLACK OR WHITE CONTRASTING LETTERING BEARING THE CONTINUOUS WORDING "CAUTION RECYCLED WATER" PERMANENTLY AFFIXED AT FIVE FOOT INTERVALS ATOP ALL HORIZONTAL PIPING, LATERALS AND MAINS IS AN ACCEPTABLE ALTERNATIVE TO PURPLE PIPE, IF PURPLE PIPE IS UNAVAILABLE IN THE SIZE REQUIRED BY THE PROJECT DESIGN. IDENTIFICATION TAPE SHALL EXTEND TO ALL VALVE BOXES AND/OR VAULTS, EXPOSED PIPING, HYDRANTS AND QUICK COUPLERS.
 - POTABLE WATER - ALL POTABLE WATER LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE AND ALL OTHER GOVERNING CODES, RULES AND REGULATIONS. BURIED POTABLE WATER LINES SHALL BE IDENTIFIED BY CONTINUOUS LETTERING ON THREE INCH (3") MINIMUM WIDTH BLUE OR GREEN TAPE WITH ONE INCH WHITE LETTERING BEARING THE CONTINUOUS WORDING "POTABLE WATER" PERMANENTLY AFFIXED AT FIVE FOOT INTERVALS ATOP ALL HORIZONTAL PIPING, LATERALS AND MAINS. IDENTIFICATION TAPE SHALL EXTEND TO ALL VALVE BOXES AND/OR VAULTS, EXPOSED PIPING AND HYDRANTS.
 - IDENTIFICATION TAPE IS NOT NECESSARY FOR EXTRUDED COLORED PVC WITH CONTINUOUS WORDING "POTABLE WATER" PRINTED IN CONTRASTING LETTERING ON OPPOSITE SIDES OF THE PIPE.
 - NON-POTABLE WATER - ALL NON-POTABLE IRRIGATION/INDUSTRIAL WATER LINES (PRESSURE/NON-PRESSURE) SHALL BE IDENTIFIED BY CONTINUOUS LETTERING ON THREE INCH (3") MINIMUM WIDTH TAPE WITH ONE INCH CONTRASTING LETTERING BEARING THE CONTINUOUS WORDING "NON-POTABLE WATER" PERMANENTLY AFFIXED AT TEN FOOT INTERVALS ATOP ALL HORIZONTAL PIPING, LATERALS AND MAINS. IDENTIFICATION TAPE SHALL EXTEND TO ALL VALVE BOXES AND/OR VAULTS, EXPOSED PIPING, HYDRANTS AND QUICK COUPLERS. NON-POTABLE WATER IS WATER SUPPLIED FROM THE POTABLE WATER SYSTEM THROUGH AN APPROPRIATE BACKFLOW PREVENTER.
 - EXPOSED PIPING, VALVE BOXES, VAULTS, CONTROL VALVES, QUICK COUPLING VALVES, OUTLETS AND RELATED APPURTENANCES SHALL BE COLOR CODED AND LABELED OR TAGGED TO DIFFERENTIATE BETWEEN RECYCLED WATER, POTABLE WATER AND NON-POTABLE WATER SYSTEMS, I.E.,
 - "CAUTION RECYCLED WATER DO NOT DRINK" IN BLACK OR WHITE CONTRASTING LETTERING ON A PURPLE BACKGROUND.
 - "POTABLE WATER" IN WHITE LETTERING ON A BLUE BACKGROUND.
 - "NON-POTABLE WATER - DO NOT DRINK" IN CONTRASTING LETTERING FROM THE BACKGROUND.
 - TAGS SHALL BE IDENTIFIED WITH THE APPROPRIATE WORDING ON BOTH SIDES. TAGS IDENTIFYING RECYCLED WATER SHALL HAVE THE APPROPRIATE WORDING ON ONE SIDE AND SYMBOL ON THE OPPOSITE SIDE.

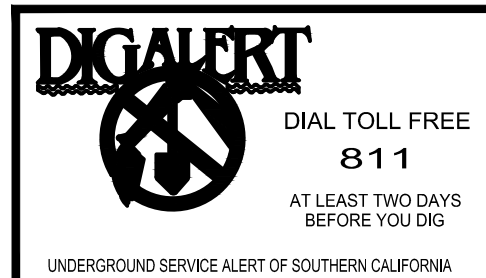
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CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

IRRIGATION NOTES

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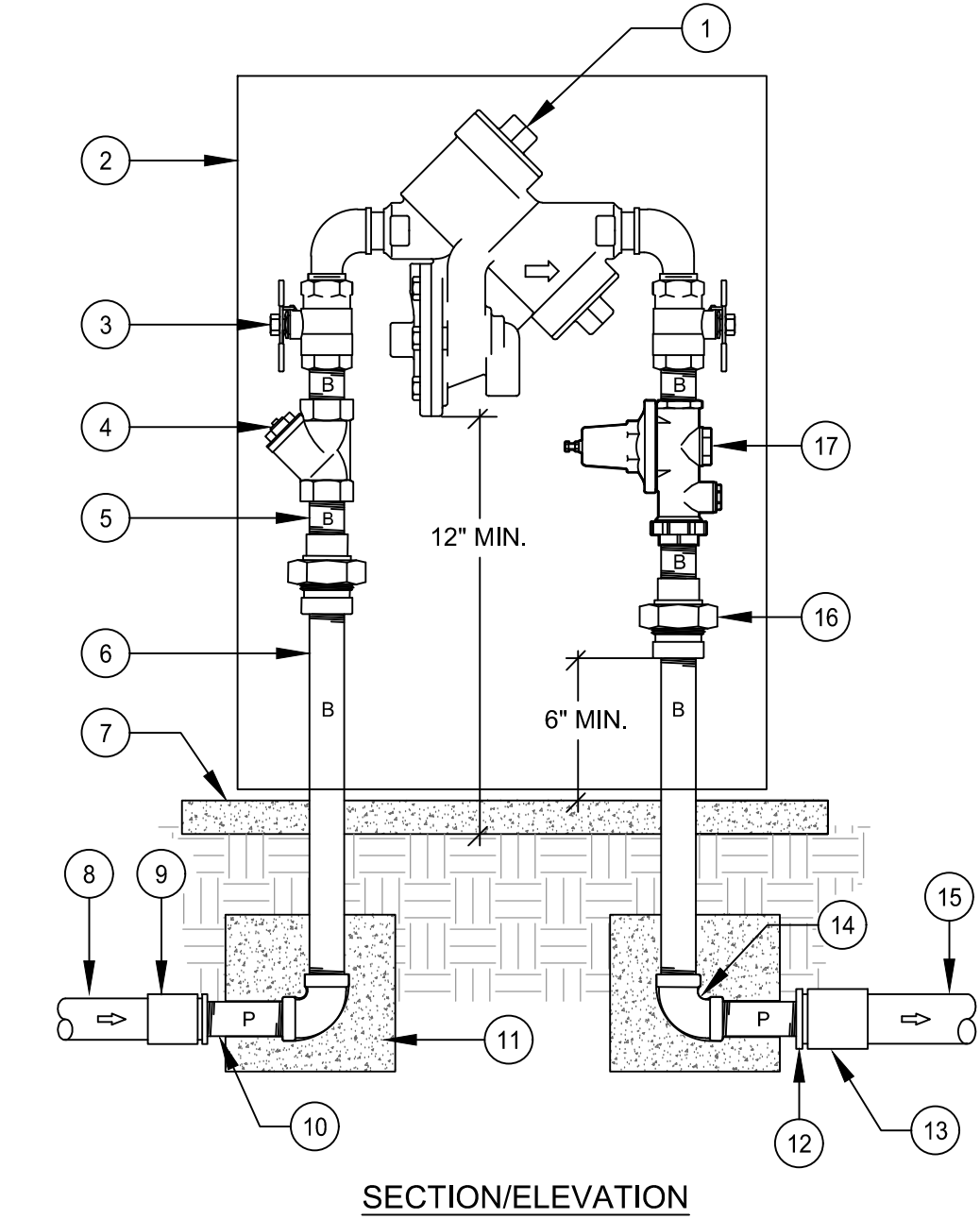
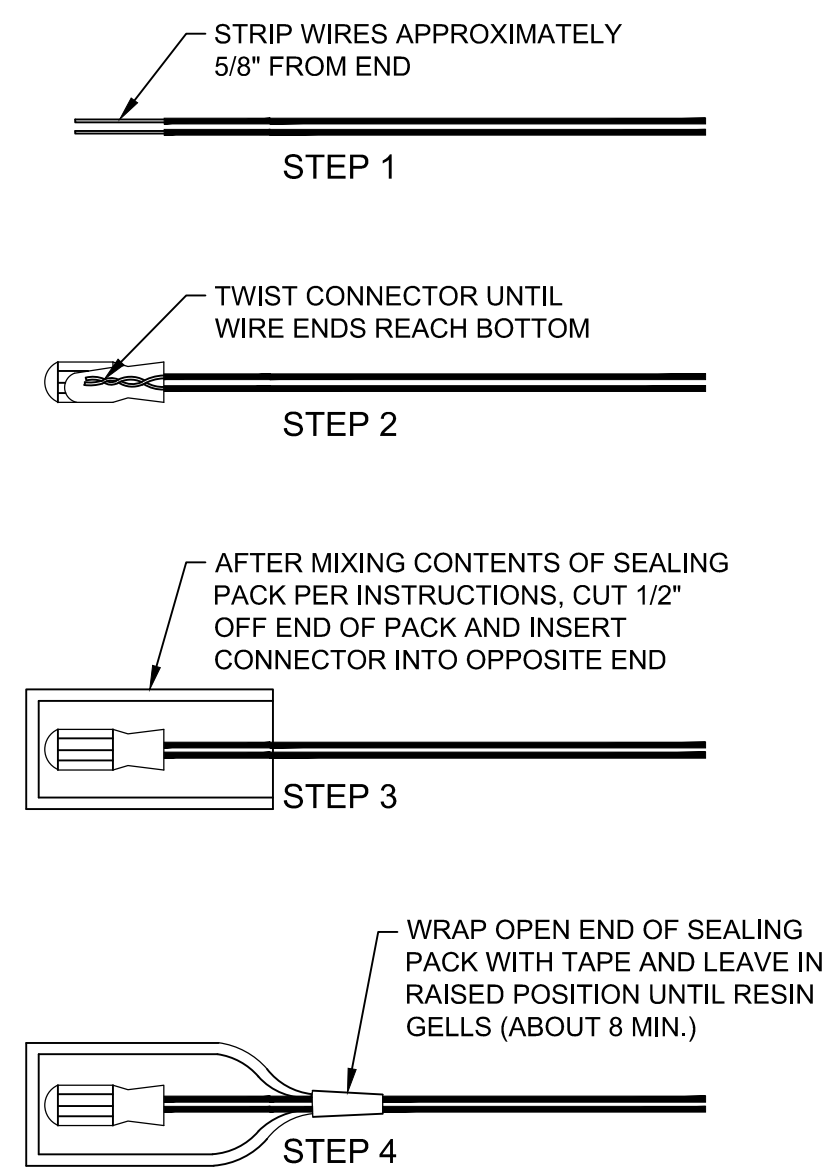
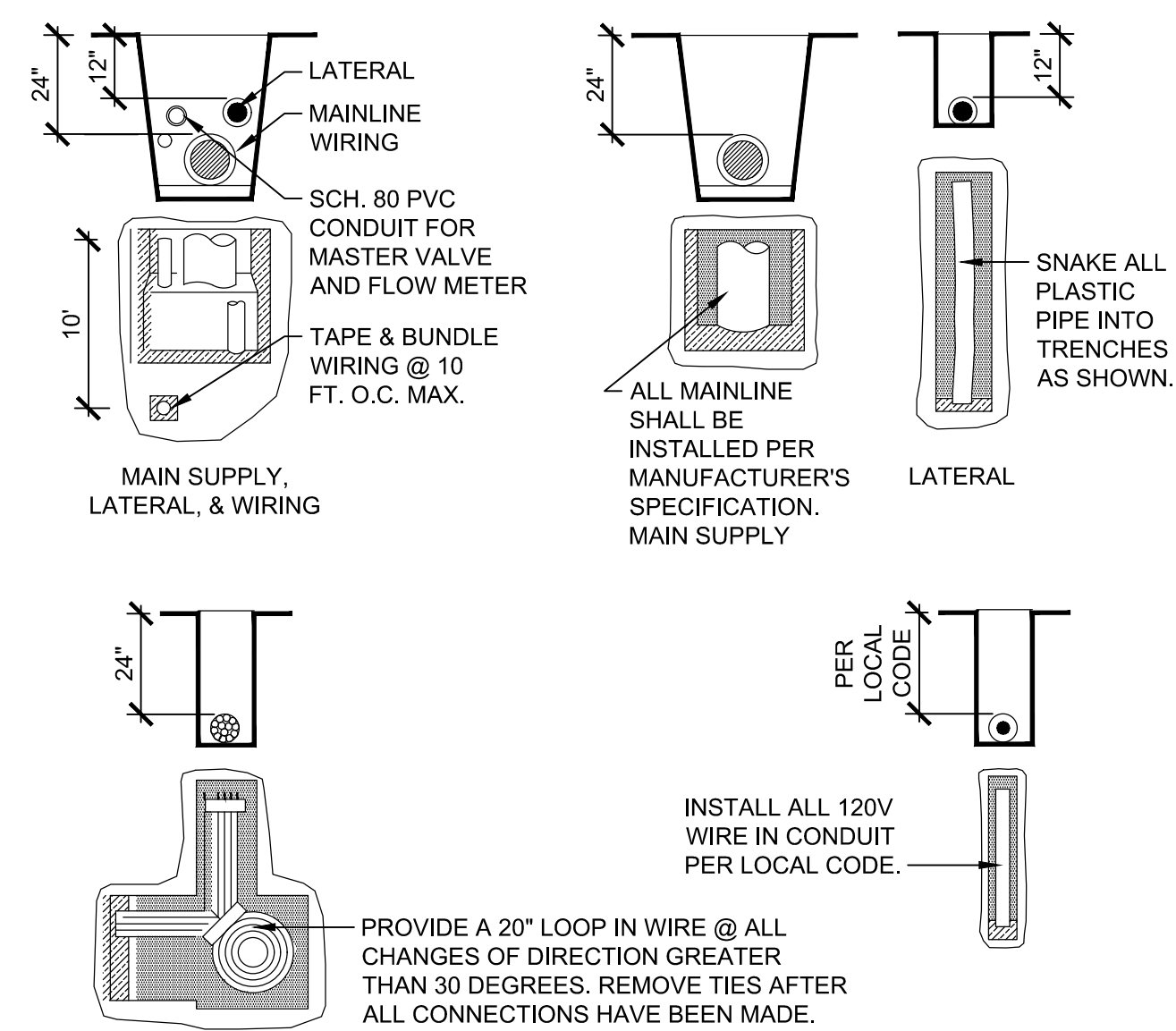
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IR-04
SHEET 39 OF 85 SHEETS



PLANS PREPARED UNDER THE SUPERVISION OF:
Jason Fussell 05/20/2019
DATE
JASON FUSSELL RCE-70879 EXP. 06/30/19 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

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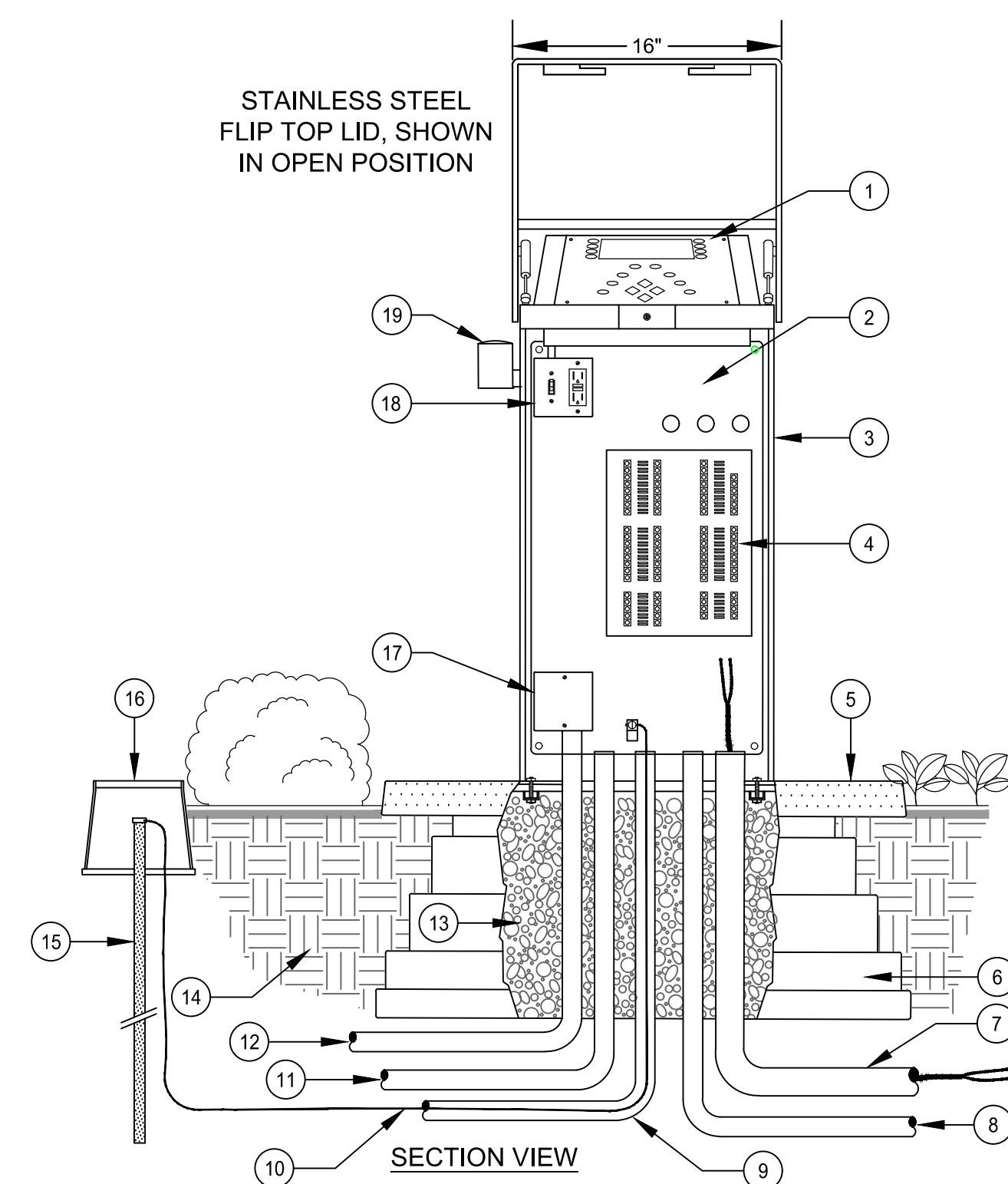
- LEGEND**
- BACKFLOW DEVICE, REFER TO LEGEND FOR SPECIFICATION
 - BACKFLOW ENCLOSURE, REFER TO LEGEND FOR SPECIFICATION
 - BRASS BALL VALVE
 - WYE STRAINER, REFER TO LEGEND FOR SPECIFICATION
 - BRASS NIPPLE, MAX. LEN. 3" (4 REQ.)
 - BRASS RISER, LEN. AS REQUIRED, (2 REQ.)
 - CONCRETE SLAB
 - IRRIGATION SERVICE LINE FROM METER
 - PVC SCH 80 SS COUPLER, SVC LINE SIZE
 - PVC SCH 80 NIPPLE, LENGTH BEYOND THRUST BLOCK, (2 REQ.)
 - CONCRETE THRUST BLOCK, 1 CU. FT.
 - PVC SCH 80 REDUCING ADAPTER, SF, COUPLER SIZE (2 REQ.)
 - PVC SCH 80 SS COUPLER, MAINLINE SIZE
 - BRASS ELBOW
 - IRRIGATION MAINLINE
 - BRASS UNION (2 REQ.)
 - PRESSURE REGULATOR, IF SPECIFIED. REFER TO LEGEND FOR SPECIFICATION - IF NOT SPECIFIED, INSTALL ONE BRASS NIPPLE IN PLACE OF TWO 3" NIPPLES AND REGULATOR

NOTE:
 A. USE TEFLON TAPE ON ALL MALE THREADS WITHIN ASSEMBLY.
 B. CONCRETE SLAB SHALL BE MINIMUM 4" THICK AND EXTEND A MINIMUM 6" PAST THE BACKFLOW ASSEMBLY PIPING AND/OR ENCLOSURE ON ALL SIDES.

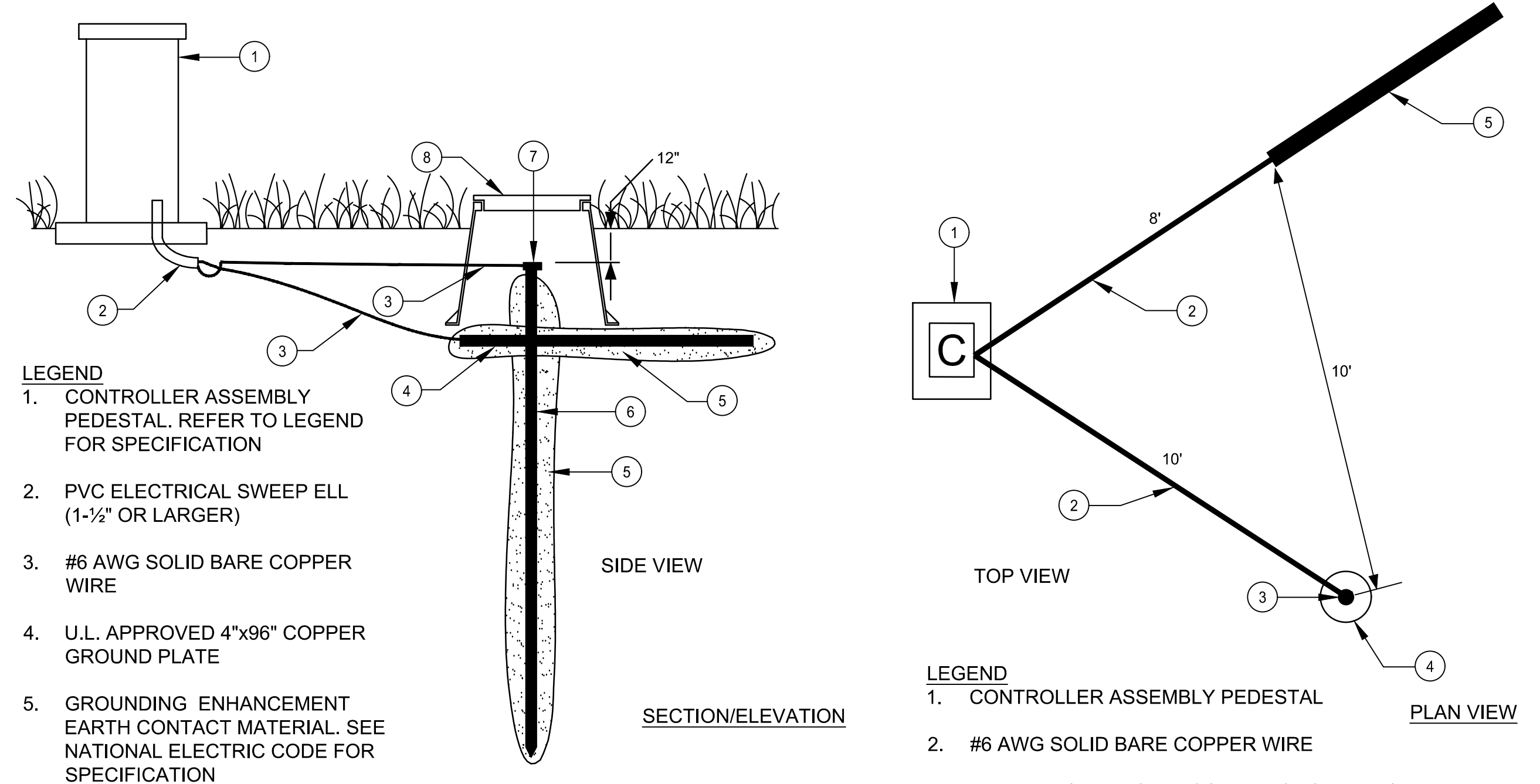
1 TRENCHING
 NTS REFERENCE SHEET IR-06

2 TYPICAL WIRE CONNECTION
 NTS

3 BACKFLOW ASSEMBLY
 NTS REFERENCE SHEET IR-01, IR-02



- LEGEND**
- IRRIGATION CONTROLLER, INSTALLED WITHIN ENCLOSURE, REFER TO LEGEND FOR SPECIFICATION
 - CONTROLLER ENCLOSURE TERMINAL STRIP FOR REMOTE CONTROL VALVE WIRE CONNECTION
 - FRONT OPENING STAINLESS STEEL PEDESTAL. REFER TO LEGEND FOR SPECIFICATION
 - TP-1 TRANSIENT PROTECTION BOARD, AS REQUIRED. REFER TO LEGEND IF SPECIFIED
 - PREFORMED ALUMINUM PAD, PART OF 'QUICKPAD'
 - V.I.T. PRODUCTS (STRONGBOX) ENCLOSURE MOUNTING PAD; 'QUICKPAD' WITH PREFORMED ALUMINUM PAD, PLASTIC BASE AND ALL STAINLESS STEEL HARDWARE
 - 2" SCH 40 ELECTRICAL CONDUIT WITH SWEEP ELL FOR 2-WIRE DECODER CABLE
 - 3/4" SCH 40 ELECTRICAL CONDUIT WITH SWEEP ELL FOR HARDWIRED PHONE COMMUNICATION LINE, INSTALL ONLY IF REQUIRED
 - 3" SCH 40 ELECTRICAL CONDUIT WITH SWEEP EL FOR GROUND WIRE
 - #6 AWG GROUND WIRE. PROVIDE ONE WIRE EACH TO GROUND ROD AND TO GROUND PLATE. (PLATE NOT SHOWN)
 - 3/4" SCH 40 ELECTRICAL CONDUIT WITH SWEEP ELL FOR FLOW SENSOR CABLE. INSTALL ONLY IF SEPARATE FLOW SENSOR WIRES ARE REQUIRED
 - SCH 40 ELECTRICAL CONDUIT WITH SWEEP ELL FOR 117 VAC POWER - SIZE PER ELECTRICAL REQUIREMENTS
 - FILL BASE OF 'QUICKPAD' WITH 3/4" CRUSHED GRAVEL TO TOP OF BASE UNIT
 - COMPACTED SITE SOIL
 - COPPER GROUND ROD, MINIMUM SPECIFICATION: 5/8"x8" WITH CADWELD 'ONE-SHOT' CONNECTION. INSTALL INSIDE A 10" ROUND BOX. GROUND ROD TO BE LOCATED WITHIN 8' TO 15' OF CONTROLLER. CONTRACTOR SHALL INSTALL PER CONTROLLER MANUFACTURER'S SPECIFICATION. (GROUND PLATE/WIRE NOT SHOWN. REFER TO GROUNDING DETAIL.)
 - 10" ROUND SPECIFICATION GRADE VALVE BOX. HEAT BRAND 'GRD' ON LID
 - 120 VOLT JUNCTION BOX
 - ON/OFF SWITCH AND GFI OUTLET RECEPTACLE AS PART OF ENCLOSURE ASSEMBLY
 - RAIN SENSOR WITHIN A VANDAL RESISTANT ENCLOSURE. REFER TO LEGEND FOR SPECIFICATION



- LEGEND**
- CONTROLLER ASSEMBLY PEDESTAL. REFER TO LEGEND FOR SPECIFICATION
 - PVC ELECTRICAL SWEEP ELL (1-1/2" OR LARGER)
 - #6 AWG SOLID BARE COPPER WIRE
 - U.L. APPROVED 4"x96" COPPER GROUND PLATE
 - GROUNDING ENHANCEMENT EARTH CONTACT MATERIAL. SEE NATIONAL ELECTRIC CODE FOR SPECIFICATION
 - 5/8"x8" COPPER CLAD GROUND ROD, U.L. APPROVED
 - CADWELD 'ONE-SHOT' CONNECTION
 - 10" ROUND SPECIFICATION GRADE VALVE BOX

NOTE:
 A. INSTALL 10" ROUND SPECIFICATION GRADE VALVE BOX OVER ROD WITH TOP OF GROUND ROD EXPOSED WITH CADWELD 'ONE-SHOT' CONNECTION

NOTES:
 A. CONTROLLER GROUNDING SYSTEM SHALL REQUIRE A COPPER CLAD GROUND PLATE (NOT SHOWN HERE) IN ADDITION TO THE 8" GROUND ROD. PLATE SIZES MAY BE 1/32" x 4" x 96" OR 1/32" x 18" x 24" IN SIZE. REFER TO LEGEND FOR SPECIFICATION AND GROUNDING DETAILS WITHIN PACKAGE FOR ADDITIONAL INFORMATION.
 B. GROUNDING RODS AND PLATES SHALL BE COMPLETELY SURROUNDED WITH MINIMUM 1 INCH THICKNESS OF GROUNDING ENHANCEMENT MATERIAL PER GROUNDING EQUIPMENT MANUFACTURERS. REFER TO MANUFACTURERS SPECIFICATIONS FOR ADDITIONAL INFORMATION.

4 CONTROLLER ASSEMBLY
 NTS REFERENCE SHEET IR-01, IR-02, IR-04

5 CONTROLLER GROUNDING INSTALLATION
 NTS REFERENCE SHEET IR-01, IR-02, IR-04

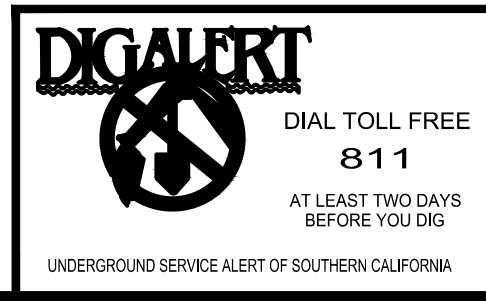
CITY OF CULVER CITY
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
 CULVER BOULEVARD REALIGNMENT PROJECT
 (BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

IRRIGATION DETAILS

REVIEWED BY AND APPROVED BY
 SEE TITLE SHEET

SHEET
 IR-05
 SHEET 40 OF 85 SHEETS

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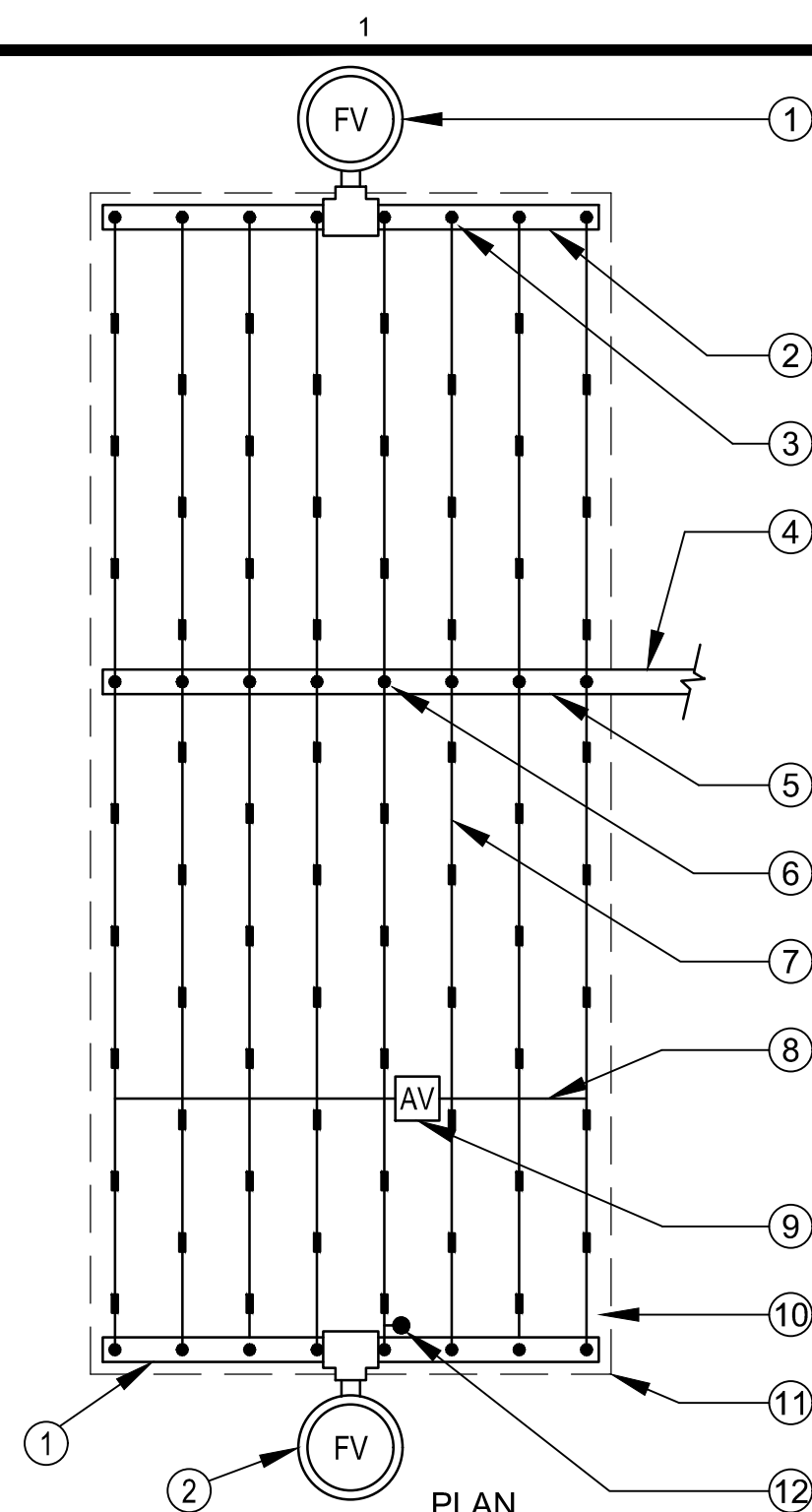


PLANS PREPARED UNDER THE SUPERVISION OF:
 JASON FUSSEL RCE-70879 EXP. 06/30/19 DATE 05/20/2019
 PROJECT NUMBER # PZ-460
 DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

5049-212

Bar Measures 1 inch

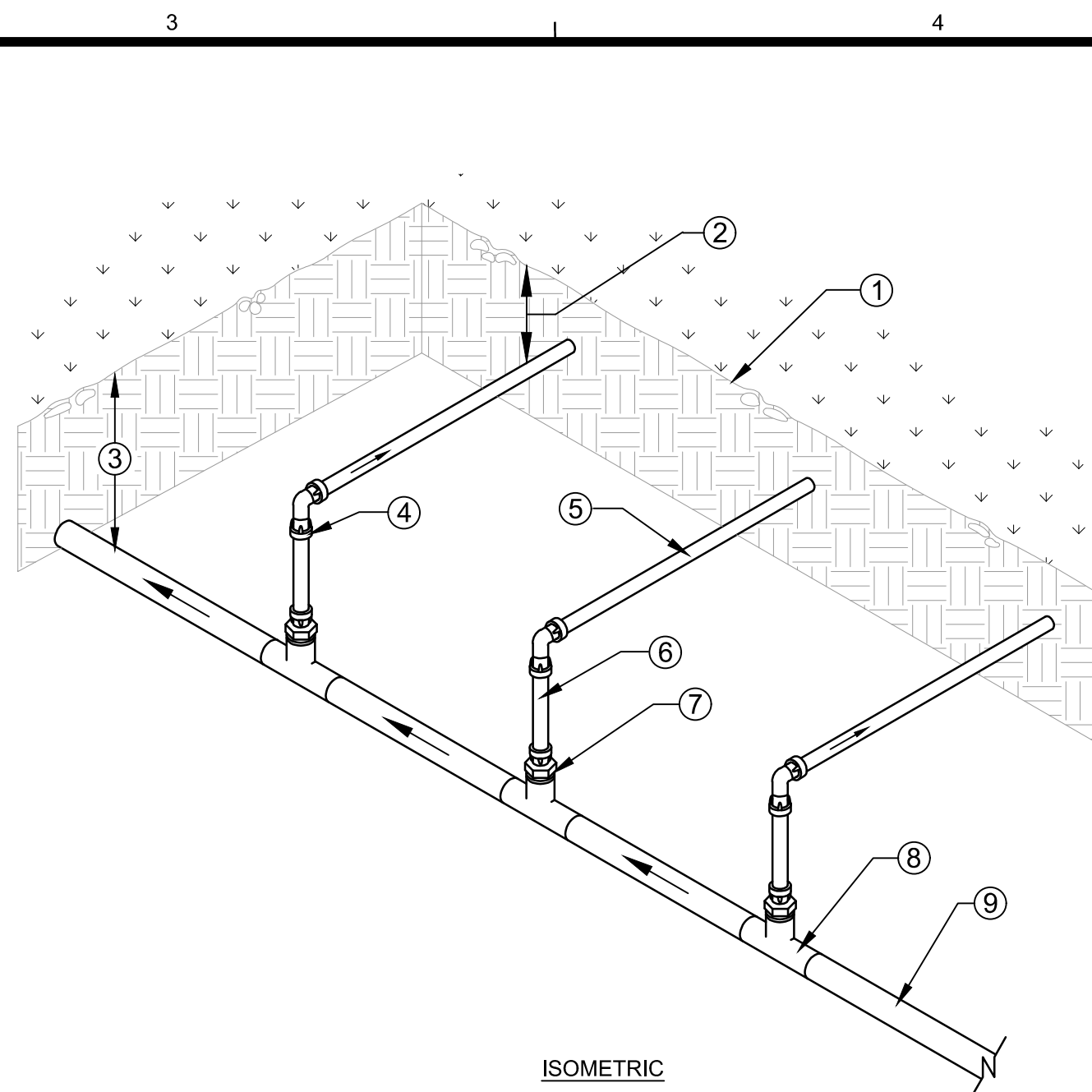


- LEGEND:
1. TORO DL2000 AUTOMATIC FLUSH VALVE (FCH-H-FIPT) PLUMBED TO FLUSH MANIFOLD AT LOW POINT.
 2. PVC FLUSH MANIFOLD.
 3. TORO DL2000 MANIFOLD-TO-ELBOW CONNECTION (TYP).
 4. PVC LATERAL LINE FROM DRIP ZONE KIT.
 5. PVC SUPPLY MANIFOLD.
 6. TORO DL2000 MANIFOLD-TO-TEE CONNECTION.
 7. TORO DL2000 DRIPLINE LATERAL (RGP-XXX-XX).
 8. AIR/VACUUM RELIEF LATERAL, TORO BLUE STRIPE POLY TUBING (EHD1645-XXX) CENTERED ON MOUND OR BERM.
 9. TORO DL2000 AIR/VACUUM RELIEF VALVE (YD-500-34) PLUMBED TO TORO BLUE STRIPE POLY TUBING (EHD1645-XXX) AT EACH HIGH POINT.
 10. PERIMETER LATERALS 2" TO 4" FROM EDGE.
 11. AREA PERIMETER.
 12. TORO DL2000 OPERATION INDICATOR (DL-MP9), OPTIONAL.

- NOTES:
- DISTANCE BETWEEN LATERAL ROWS TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. MAXIMUM SPACING SHALL BE 14" APART FOR TURF AREAS. MAXIMUM SPACING SHALL BE 24" APART FOR FLAT SHRUB AREAS. FOR ADDITIONAL INFORMATION SEE RAIN BIRD DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACING.
 - INSTALL SUB-SURFACE TUBING MAXIMUM 3" FROM ANY HARDSCAPE EDGE IN TURF AND 9" IN SHRUBS.
 - AIR RELEASE / VACUUM VALVE WHERE SHOWN AS DIAGRAMMATIC ONLY. PLACE AT HIGHEST POINT IN AREA FOR PROPER VACUUM RELEASE ACTION.
 - MAXIMUM TUBING LENGTH OF RUN IN EITHER DIRECTION SHALL NOT EXCEED 150' FROM LATERAL PIPE SUPPLY MANIFOLD.

1 CENTER FEED LAYOUT

NTS REFERENCE SHEET IR-01, IR-02, IR-03

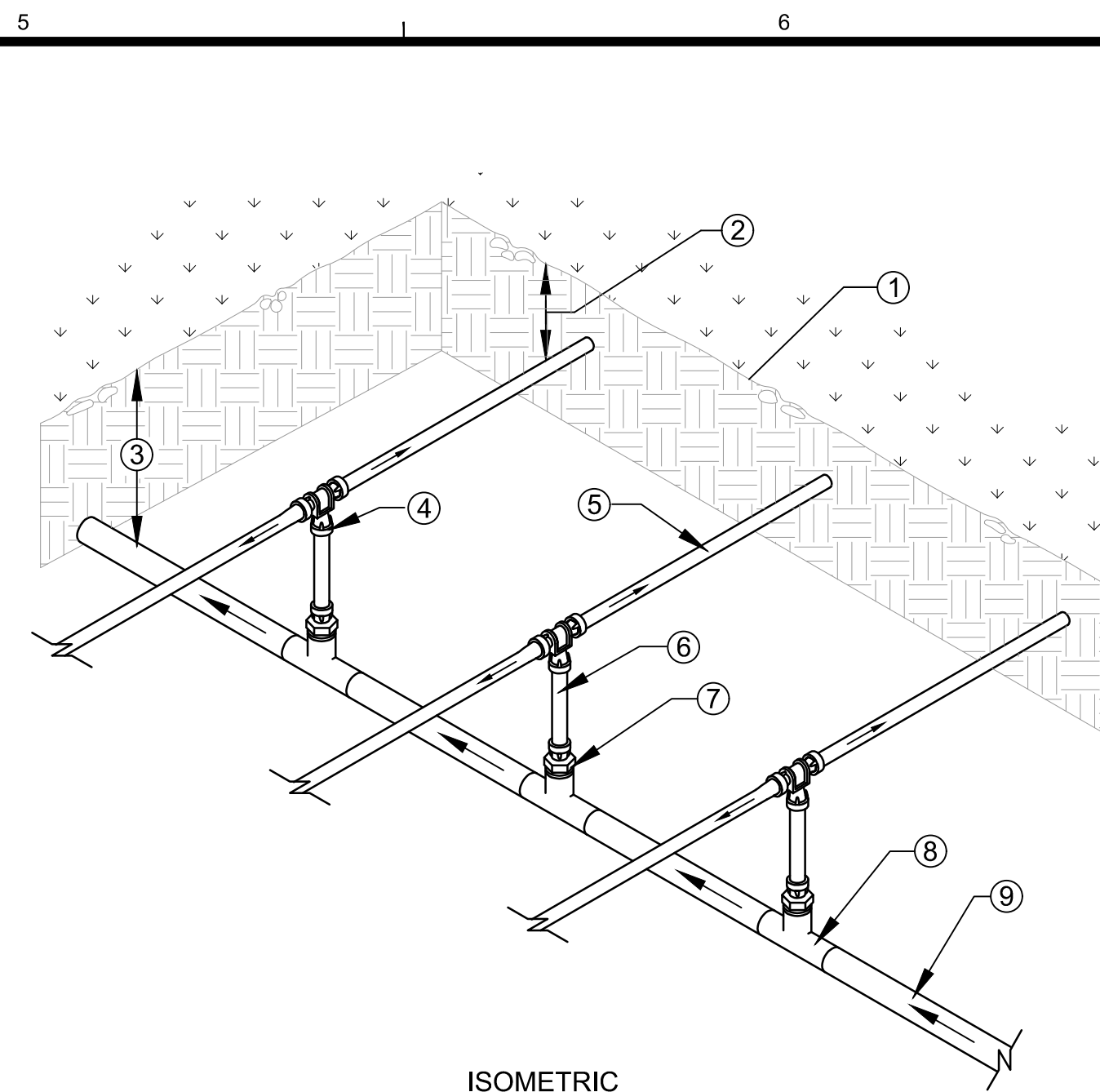


- LEGEND:
1. FINISH GRADE.
 2. DEPTH OF TUBING PER SPECIFICATIONS (SEE TORO PUBLICATION #ALT111).
 3. DEPTH OF PVC SUPPLY MANIFOLD PER SPECIFICATIONS.
 4. TORO LOC-EZE TEE (FTT16).
 5. TORO DL2000 DRIPLINE LATERAL (RGP-XXX-XX).
 6. TORO BLUE STRIPE POLY TUBING (EHD1645-XXX), LENGTH AS NECESSARY.
 7. TORO LOC-EZE X 1/2" MTP ADAPTER (FAM16).
 8. PVC TEE (SxSxT) WITH 1/2" FPT OUTLET.
 9. PVC SUPPLY MANIFOLD FROM DRIP ZONE KIT.

- NOTES:
- DISTANCE BETWEEN LATERAL ROWS TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. MAXIMUM SPACING SHALL BE 14" APART FOR TURF AREAS. MAXIMUM SPACING SHALL BE 24" APART FOR FLAT SHRUB AREAS. FOR ADDITIONAL INFORMATION SEE RAIN BIRD DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACING.
 - INSTALL SUB-SURFACE TUBING MAXIMUM 3" FROM ANY HARDSCAPE EDGE IN TURF AND 9" IN SHRUBS.
 - AIR RELEASE / VACUUM VALVE WHERE SHOWN AS DIAGRAMMATIC ONLY. PLACE AT HIGHEST POINT IN AREA FOR PROPER VACUUM RELEASE ACTION.
 - MAXIMUM TUBING LENGTH OF RUN IN EITHER DIRECTION SHALL NOT EXCEED 150' FROM LATERAL PIPE SUPPLY MANIFOLD.

2 DRIPLINE - END FEED CONNECTION

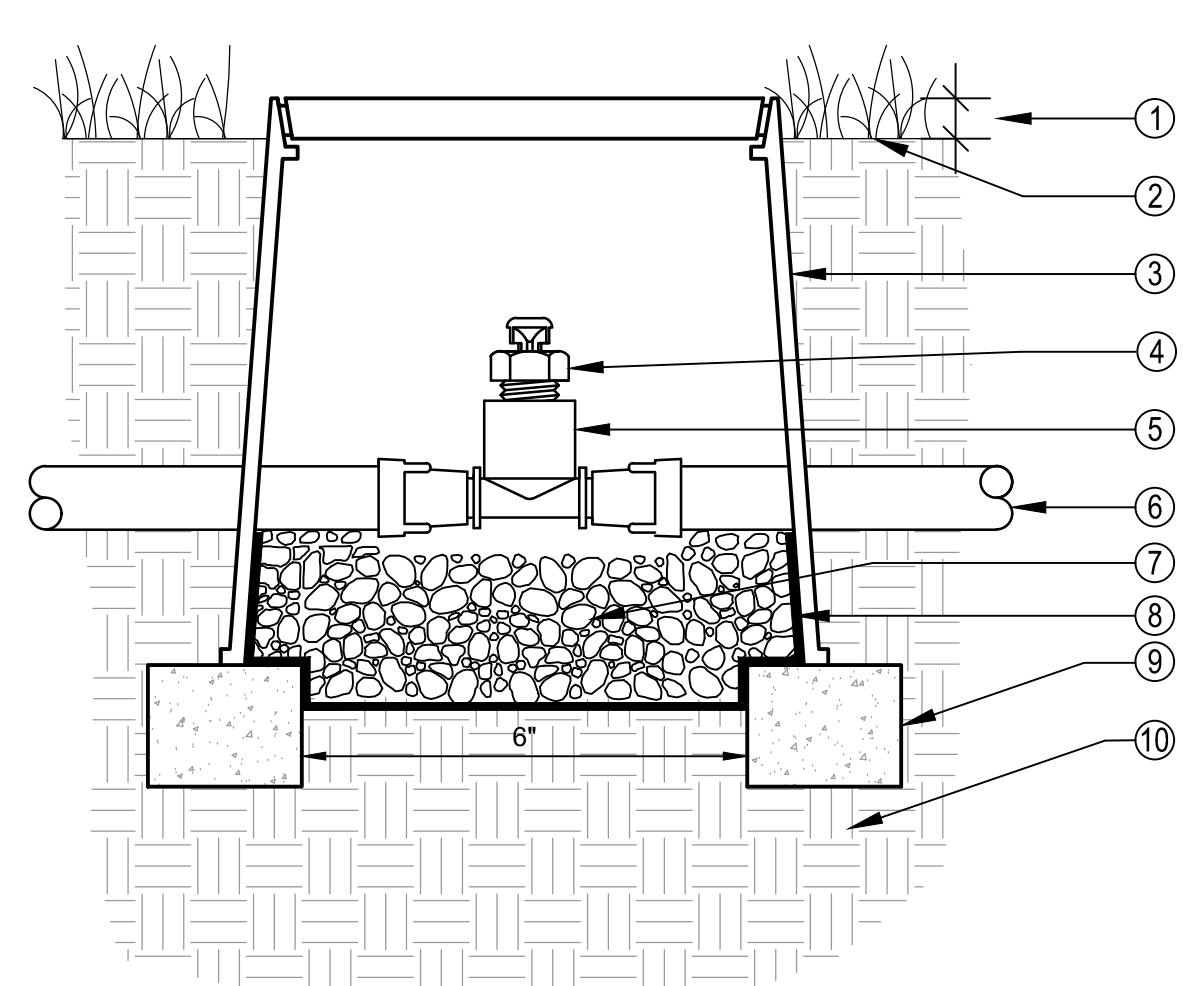
NTS REFERENCE SHEET IR-01, IR-02, IR-03



- LEGEND:
1. FINISH GRADE.
 2. DEPTH OF TUBING PER SPECIFICATIONS (SEE TORO PUBLICATION #ALT111).
 3. DEPTH OF PVC SUPPLY MANIFOLD PER SPECIFICATIONS.
 4. TORO LOC-EZE TEE (FTT16).
 5. TORO DL2000 DRIPLINE LATERAL (RGP-XXX-XX).
 6. TORO BLUE STRIPE POLY TUBING (EHD1645-XXX), LENGTH AS NECESSARY.
 7. TORO LOC-EZE X 1/2" MTP ADAPTER (FAM16).
 8. PVC TEE (SxSxT) WITH 1/2" FPT OUTLET.
 9. PVC SUPPLY MANIFOLD FROM DRIP ZONE KIT.

3 DRIPLINE MANIFOLD CENTER FEED LAYOUT

NTS REFERENCE SHEET IR-01, IR-02, IR-03

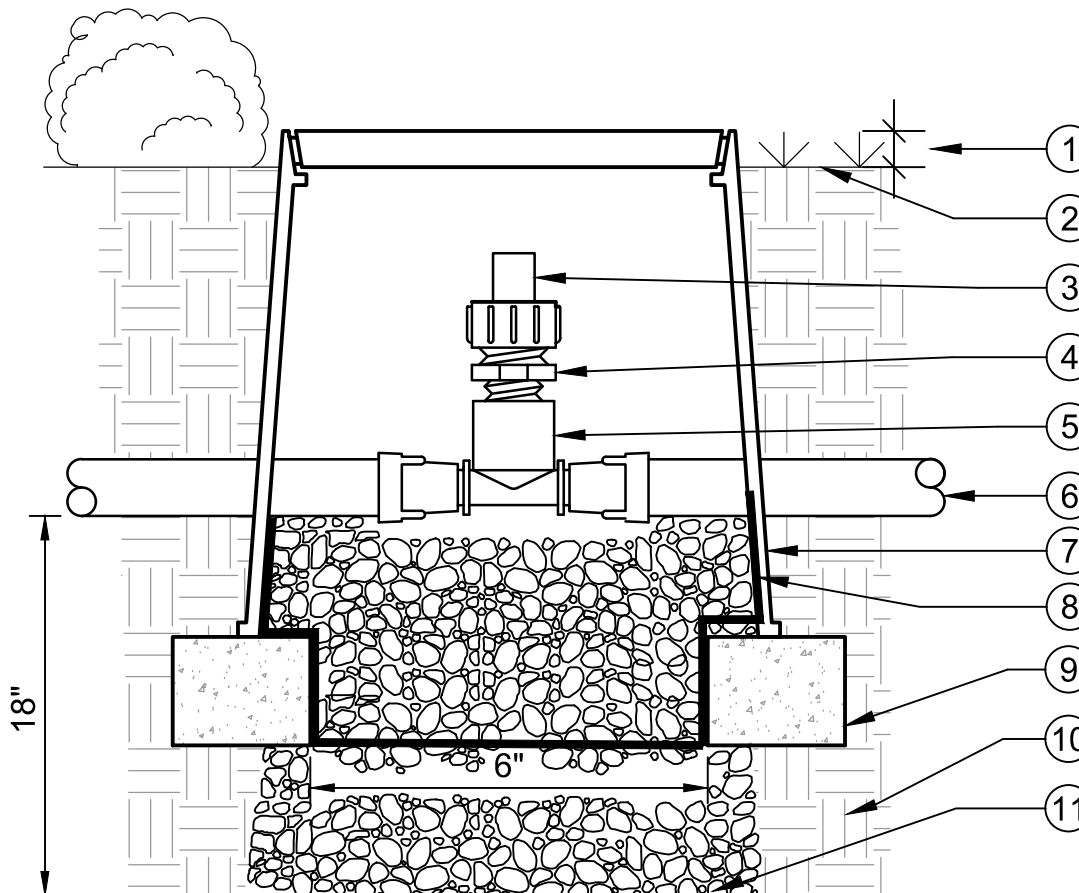


- LEGEND:
1. 1" ABOVE FINISH GRADE.
 2. FINISH GRADE
 3. 6" ROUND PLASTIC VALVE BOX. HEAT BRAND "AR" ON LID IN 1" HIGH CHARACTERS.
 4. TORO DL2000 AIR/VACUUM RELIEF VALVE (YD-500-34).
 5. TORO LOC-EZE X 1/2" FPT TEE (FTF16).
 6. TORO DL2000 TUBING (RGP-XX-XXX) OR TORO BLUE STRIPE POLY TUBING (EHD1645-XXX) AIR-RELIEF LATERAL.
 7. PEA GRAVEL SUMP (6" DEEP).
 8. LANDSCAPE FABRIC
 9. BRICK SUPPORTS (2 COMMON BRICKS REQUIRED)
 10. NATIVE SOIL PER SPECIFICATIONS.

- NOTES:
- USE TEFLON TAPE ON ALL MALE THREADS WITHIN ASSEMBLY.
 - INSTALL ONE (1) ARV FOR MAXIMUM OF EVERY 550 FEET OF TUBING, OR FOR EVERY 7 GPM PER ZONE THEREOF, IN ANY ZONE AT HIGH POINTS.
 - INSTALL IN LOCATIONS AS DESCRIBED IN THE IRRIGATION LEGEND AND DRIPLINE INSTALLATION DETAILS.
 - DUE TO FIELD CHANGES OR OTHER REASONS TOTAL ARV SYMBOLS SHOWN ON PLAN MAY NOT EQUAL TOTAL QUANTITY OF ARV'S REQUIRED.
 - CONTRACTOR SHALL REVIEW DRIP ZONE AREA AND LAYOUT TO DETERMINE EXACT QUANTITY OF ARV'S TO INSTALL.
 - IN SHRUB AREAS INSTALL VALVE BOX 2" ABOVE SOIL LEVEL OR 1" ABOVE MULCH LAYER, WHICHEVER IS HIGHER.

4 DRIPLINE - AIR/VACUUM RELIEF VALVE ON TUBING

NTS REFERENCE SHEET IR-01, IR-02, IR-03

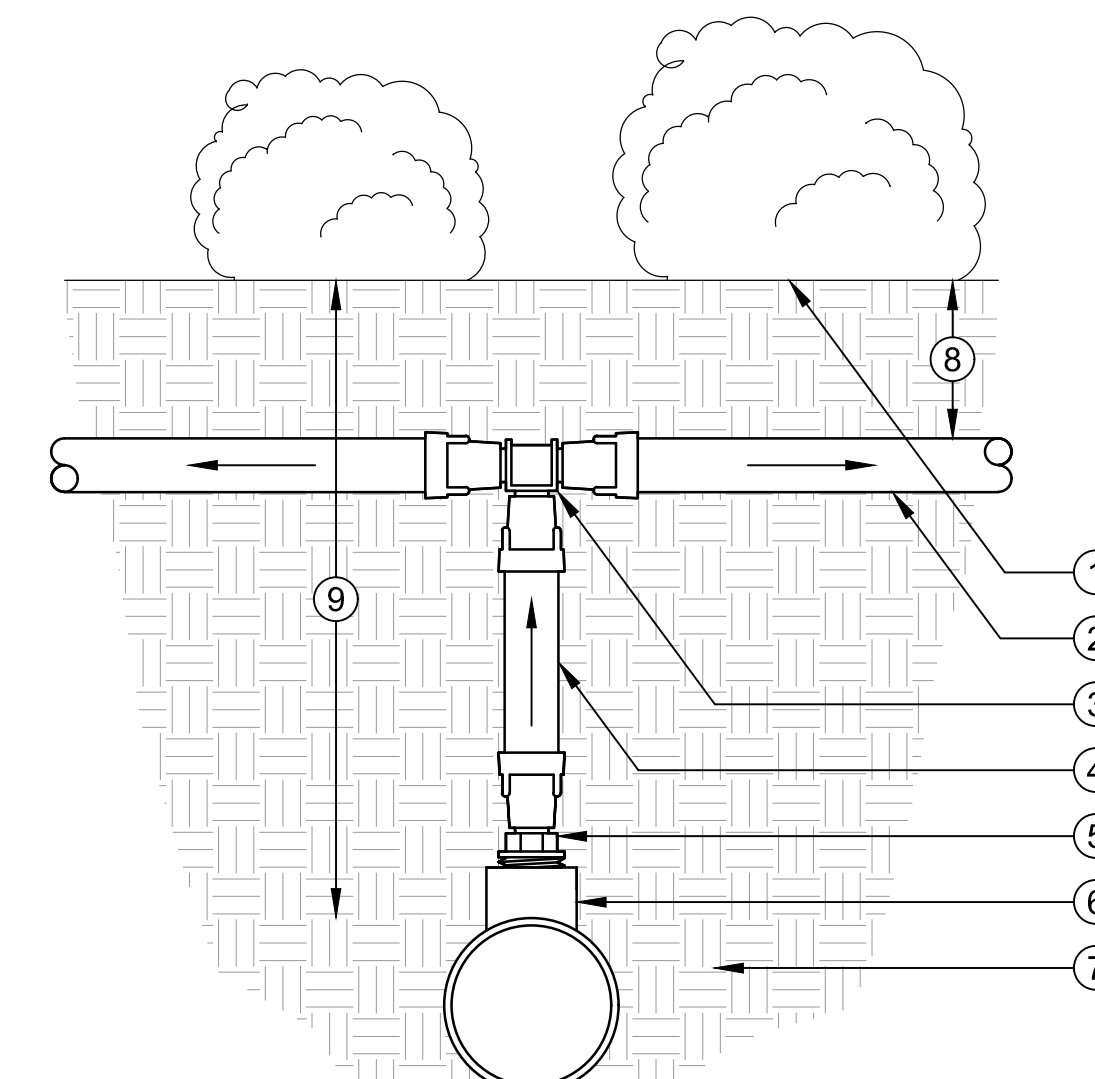


- LEGEND:
1. 1" ABOVE FINISH GRADE.
 2. FINISH GRADE.
 3. TORO DL2000 FLUSH VALVE (FCH-H-FIPT).
 4. PVC SCH 40 REDUCING NIPPLE, 3/4"-1/2" (TxT).
 5. TORO LOC-EZE X 1/2" FPT TEE (FTF16).
 6. TORO DL2000 TUBING (RGP-XX-XXX) OR TORO BLUE STRIPE POLY TUBING (EHD1645-XXX).
 7. 6" ROUND PLASTIC VALVE BOX. HEAT BRAND "FV" ON LID IN 1" HIGH CHARACTERS.
 8. LANDSCAPE FABRIC.
 9. BRICK SUPPORTS (2 COMMON BRICKS REQUIRED).
 10. NATIVE SOIL PER SPECIFICATIONS.
 11. PEA GRAVEL SUMP (6" x 18").

- NOTES:
- USE TEFLON TAPE ON ALL MALE THREADS WITHIN ASSEMBLY.
 - INSTALL ONE (1) FV FOR MAXIMUM OF EVERY 800 FEET OF TUBING, OR FOR EVERY 7GPM PER ZONE THEREOF, IN ANY ZONE.
 - INSTALL IN LOCATIONS AS DESCRIBED IN THE IRRIGATION LEGEND AND DRIPLINE INSTALLATION DETAILS.
 - DUE TO FIELD CHANGES OR OTHER REASONS TOTAL FV SYMBOLS SHOWN ON PLAN MAY NOT EQUAL TOTAL QUANTITY OF FV'S REQUIRED.
 - CONTRACTOR SHALL REVIEW DRIP ZONE AREA AND LAYOUT TO DETERMINE EXACT QUANTITY OF FV'S TO INSTALL.
 - SET TOP OF VALVE BOX 1/2" ABOVE FINISHED GRADE IN TURF AREAS.
 - IN SHRUB AREAS INSTALL VALVE BOX 2" ABOVE SOIL LEVEL OR 1" ABOVE MULCH LAYER, WHICHEVER IS HIGHER.

5 DRIPLINE - FLUSH VALVE ON TUBING

NTS REFERENCE SHEET IR-01, IR-02, IR-03



- LEGEND:
1. FINISH GRADE.
 2. TORO DL2000 DRIPLINE LATERAL (RGP-XXX-XX).
 3. TORO LOC-EZE TEE (FTT16).
 4. TORO BLUE STRIPE POLY TUBING (EHD1645-XXX).
 5. TORO LOC-EZE X 1/2" MPT ADAPTER (FAM16).
 6. PVC TEE (SxSxT) WITH 1/2" FPT OUTLET.
 7. NATIVE SOIL BACKFILL PER SPECIFICATIONS.
 8. DEPTH OF TUBING PER SPECIFICATIONS (SEE TORO PUBLICATION #ALT111).
 9. DEPTH OF PVC SUPPLY LINE PER SPECIFICATIONS.

- NOTES:
- REFER TO IRRIGATION LEGEND FOR MAXIMUM DRIPLINE TUBING SPACING.
 - LAY DEPTH FOR DRIPLINE SHALL BE 6 INCHES BELOW AMENDED SOIL FINISH GRADE.
 - INSTALL FIRST ROW OF DRIPLINE TUBING 6 INCHES FROM ANY HARDSCAPE EDGE.

6 DRIPLINE - PVC/DRIPLINE MANIFOLD TEE CONNECTION

NTS REFERENCE SHEET IR-01, IR-02, IR-03

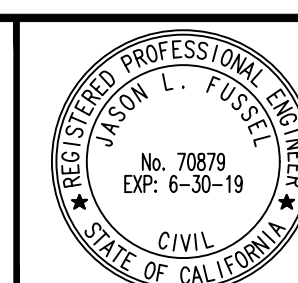
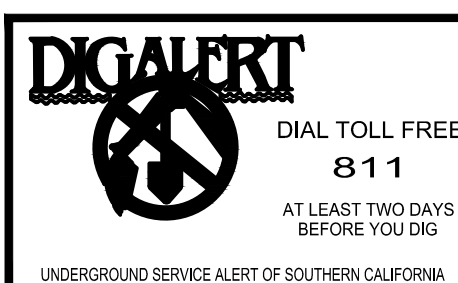
CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

IRRIGATION DETAILS

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SHEET
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SHEET 41 OF 85 SHEETS

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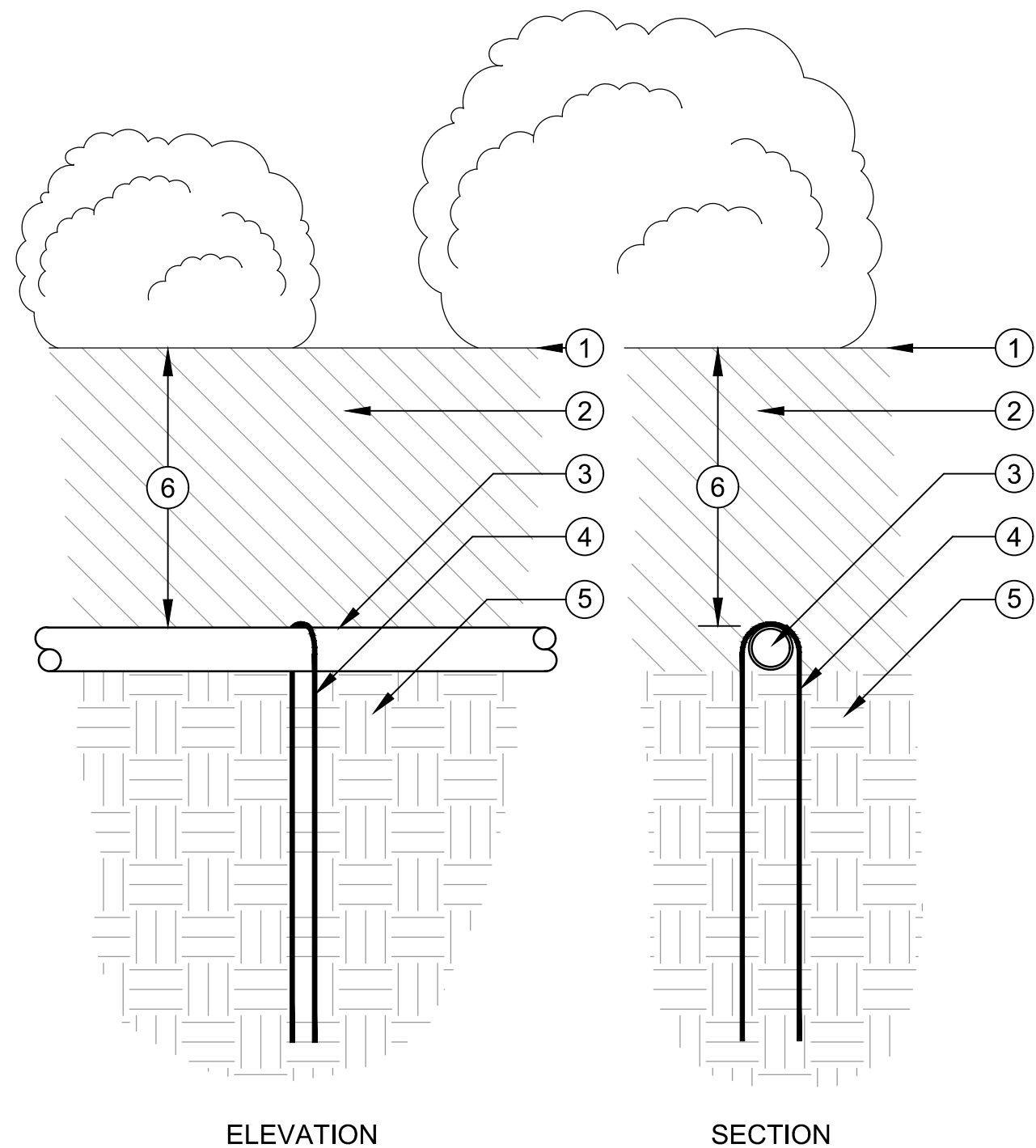


PLANS PREPARED UNDER THE SUPERVISION OF:
05/20/2019
DATE
JASON FUSSEL RCE-70879 EXP. 06/30/19
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

Bar Measures 1 inch

5049-212

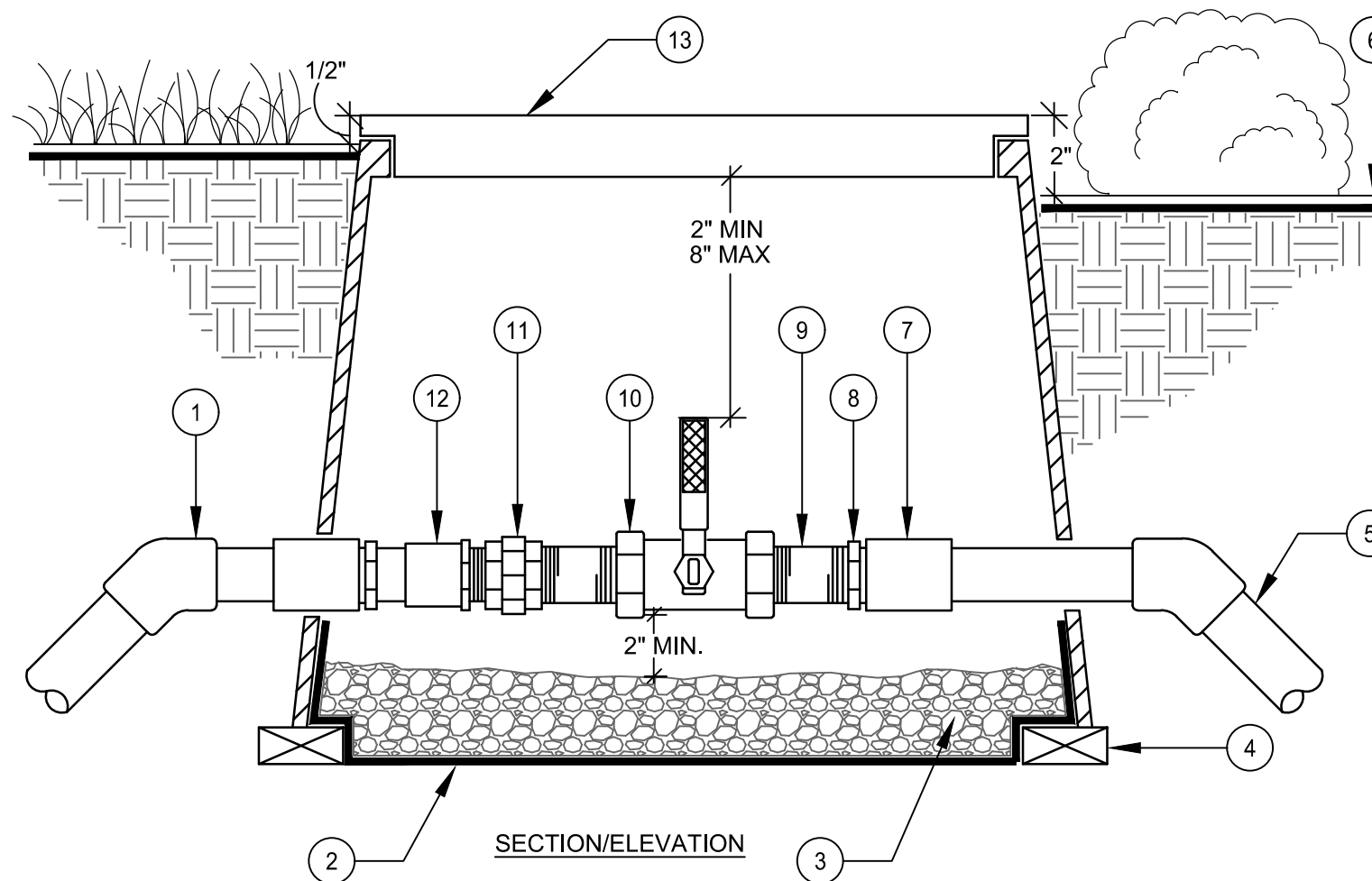


- LEGEND:**
1. FINISH GRADE.
 2. BACKFILL MIX PER SPECIFICATIONS.
 3. TORO DL2000 DRIPLINE (RGP-218-10).
 4. TORO DL2000 STEEL SOIL STAPLE (SS6-50).
 5. NATIVE SOIL PER SPECIFICATIONS.
 6. DEPTH OF TUBING PER SPECIFICATIONS (SEE TORO PUBLICATION DESIGN GUIDE).

NOTES:

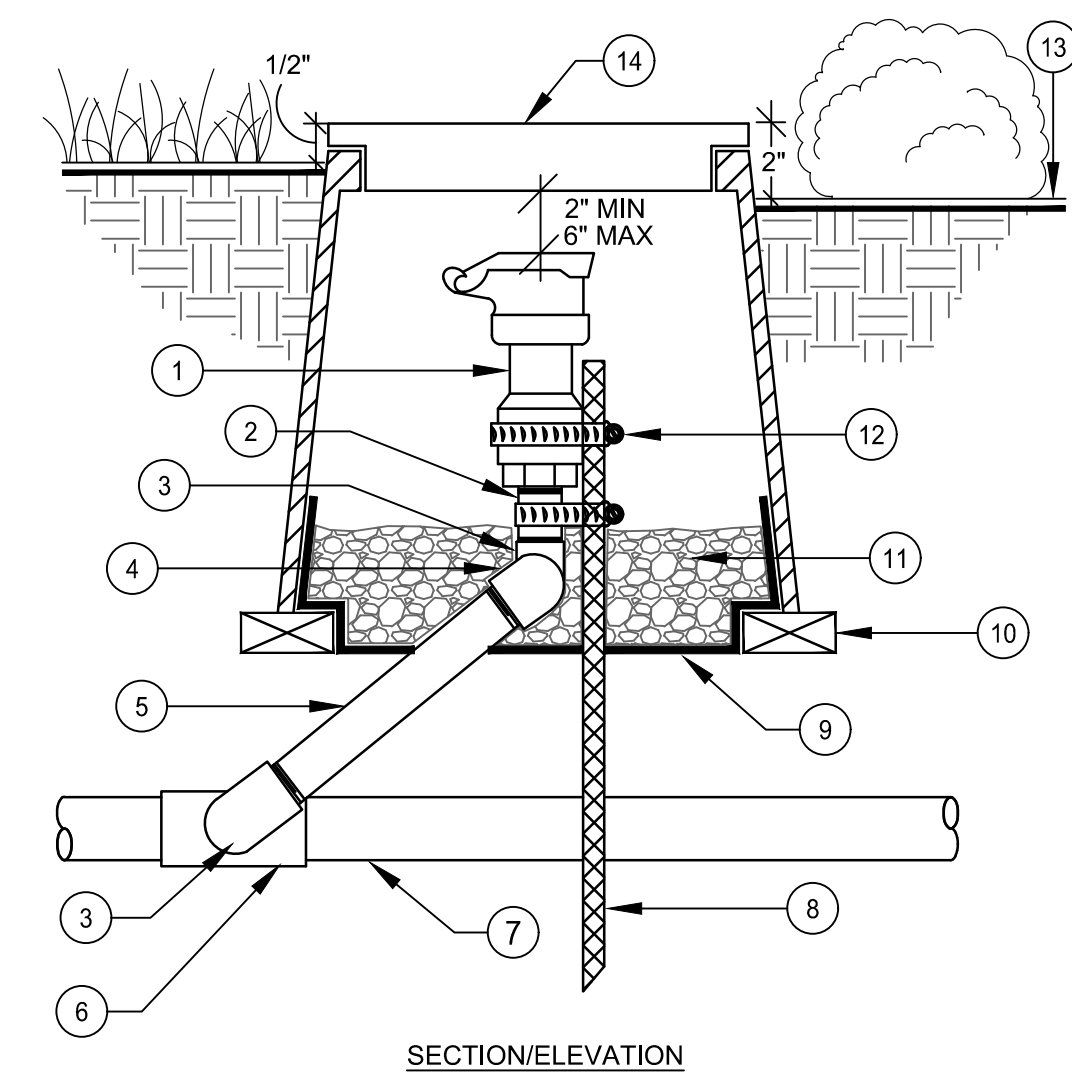
A. TO INSURE EVEN PARALLEL AND LEVEL TUBING ROWS IT IS RECOMMENDED THAT THE SOIL LEVEL IN THE PLANTER AREAS BE BROUGHT TO SIX INCHES BELOW FINISH GRADE, LEVELED, AND PROPERLY COMPACTED AS PER THE LANDSCAPED DRAWINGS PRIOR TO THE INSTALLATION OF THE TUBING.

B. INSTALL TUBING AS INDICATED ON THESE DRAWINGS AND SECURE TO GRADE USING GALVANIZED WIRE HOOP STAKES AT 4 O.C. SPACING AND AT ALL FITTINGS (TEES, ELLS, ETC).



- NOTES:**
- A. USE TEFLON TAPE ON ALL MALE THREADS WITHIN ASSEMBLY.
- B. USE 45 DEGREE ELLS TO TRANSITION TO MAINLINE DEPTH.
- C. INSTALL VALVE CENTERED IN BOX.
- D. REDUCING BUSHINGS ONLY REQUIRED WHEN VALVE IS SIZED SMALLER THAN MAINLINE.
- E. SET TOP OF VALVE BOX 1/2" ABOVE FINISHED GRADE IN TURF AREAS.
- F. IN SHRUB AREAS INSTALL VALVE BOX 2" ABOVE SOIL LEVEL OR 1" ABOVE MULCH LAYER, WHICHEVER IS HIGHER.

- LEGEND**
- | | | |
|--|--|--|
| 1. PVC SCH 80 45 DEGREE ELL | 6. FINISH GRADE | INSTALL SHUTOFF HANDLE PERPENDICULAR TO BOX LID |
| 2. LANDSCAPE FABRIC | 7. PVC SCH 80 COUPLER, SS, MAINLINE SIZE | 11. PVC SCH 80 TT UNION, SIZE PER VALVE |
| 3. 3/4" CRUSHED GRAVEL, MIN. 5"-6" DEPTH | 8. PVC SCH 80 REDUCING BUSHING, SF, MAINLINE SIZE x VALVE SIZE | 12. PVC SCH 80 MALE ADAPTER |
| 4. SOLID BRICK, NOMINAL SIZE (MIN. 4 REQ.) | 9. PVC SCH 80 NIPPLE, 3" LENGTH (2 REQ.) | 13. RECTANGULAR SPECIFICATION GRADE VALVE BOX WITH BOLT DOWN 'T' COVER. HEAT BRAND 'BV' ON LID |
| 5. IRRIGATION MAINLINE | 10. BALL VALVE, REFER TO LEGEND FOR TYPE. | |



- LEGEND**
1. QUICK COUPLER VALVE. SEE LEGEND FOR SPECIFICATION.
 2. BRASS NIPPLE- QCV SIZED 4" .MIN. LENGTH.
 3. BRASS ST. ELL (2 REQ.).
 4. BRASS ELL.
 5. BRASS NIPPLE- QCV SIZED 12" MIN. LENGTH FOR 18" TRENCH 18" MIN. LENGTH FOR 24" TRENCH.
 6. PVC SCH 80 FITTING, TEE / ELL.
 7. PVC MAINLINE. SEE LEGEND FOR SPECIFICATION.
 8. #4 REBAR 36" MIN. LENGTH.
 9. LANDSCAPE FABRIC.
 10. SUPPORT BRICKS (3 REQ.).
 11. 3/4" CRUSHED GRAVEL, MIN. 1 CUBIC FOOT
 12. STAINLESS STEEL CLAMP (2 REQ.)
 13. FINISH GRADE.
 14. 10" ROUND SPECIFICATION GRADE VALVE BOX WITH "T" COVER. HEATED BRANDED MARKED 'QCV'.

NOTES:

A. USE TEFLON TAPE ON ALL MALE THREADS WITHIN ASSEMBLY.

B. SET TOP OF VALVE BOX 1/2" ABOVE FINISHED GRADE IN TURF AREAS.

C. IN SHRUB AREAS INSTALL VALVE BOX 2" ABOVE SOIL LEVEL OR 1" ABOVE MULCH LAYER, WHICHEVER IS HIGHER.

1 DRIPLINE INSTALLATION - STEEL STAPLE

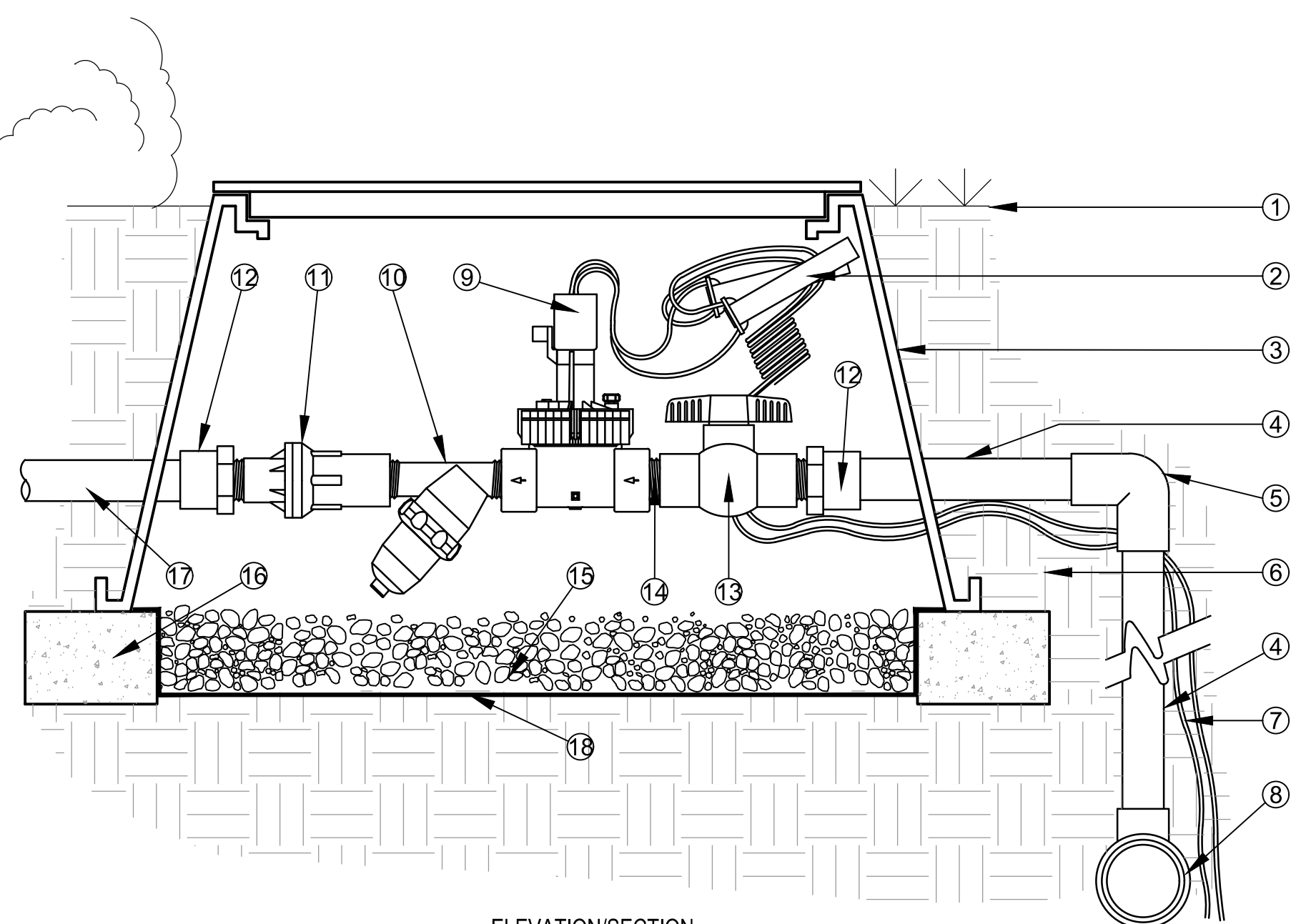
NTS REFERENCE SHEET IR-01, IR-02, IR-03

2 MAINLINE ISOLATION VALVE

NTS REFERENCE SHEET IR-01, IR-02

3 QUICK COUPLER ASSEMBLY

NTS REFERENCE SHEET IR-01, IR-02, IR-03, IR-04

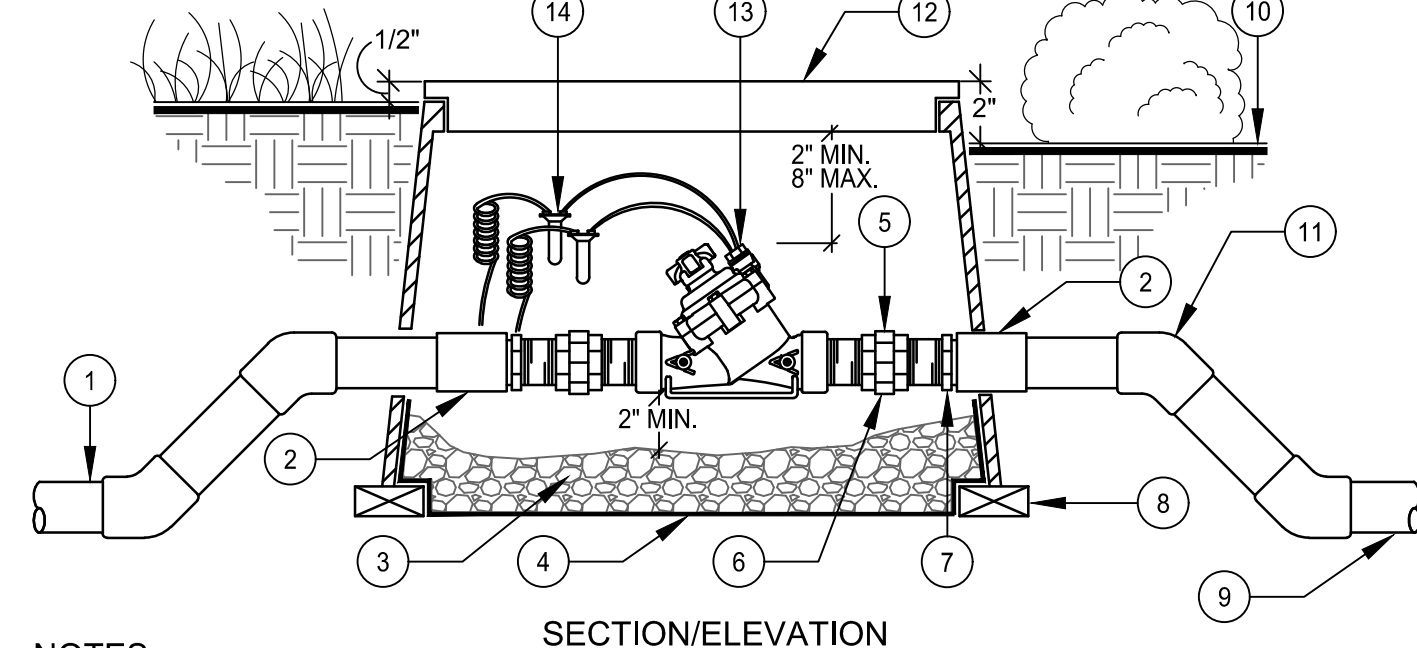


- LEGEND:**
1. FINISH GRADE.
 2. CONTROL WIRES WITH 36" SERVICE COIL AND WATER PROOF WIRE CONNECTIONS, DBY OR EQUAL.
 3. RECTANGULAR PLASTIC VALVE BOX. HEAT BRAND STATION NUMBER ON LID IN 2" HIGH CHARACTERS.
 4. PVC MAINLINE PER SPECIFICATIONS (LENGTH AS REQUIRED).
 5. SCH 40 PVC ELL (SxS).
 6. NATIVE SOIL PER SPECIFICATIONS.
 7. CONTROL WIRES TO CONTROLLER.
 8. PVC MAINLINE FITTING.
 9. TORO TPVF100 INLINE VALVE (*).
 10. TORO 150 MESH Y-FILTER (*).
 11. TORO 25 PSI LOW FLOW PRESSURE REGULATOR (*).
 12. SCH 40 PVC MALE ADAPTER.
 13. SCH 40 PVC BALL VALVE (*).
 14. SCH 80 PVC CLOSE NIPPLE (*).
 15. PEA GRAVEL SUMP, MINIMUM 6" DEEP.
 16. BRICK SUPPORTS (4 COMMON BRICKS REQUIRED).
 17. LATERAL LINE TO DRIP SYSTEM. (*) PARTS IN DRIP ZONE KIT.
 18. LANDSCAPE FABRIC.

MIN. FLOW RATE - 2.0 GPM
MAX. FLOW RATE - 20.0 GPM

4 DRIP SYSTEMS RCV ASSEMBLY

NTS REFERENCE SHEET IR-02, IR-03, IR-04

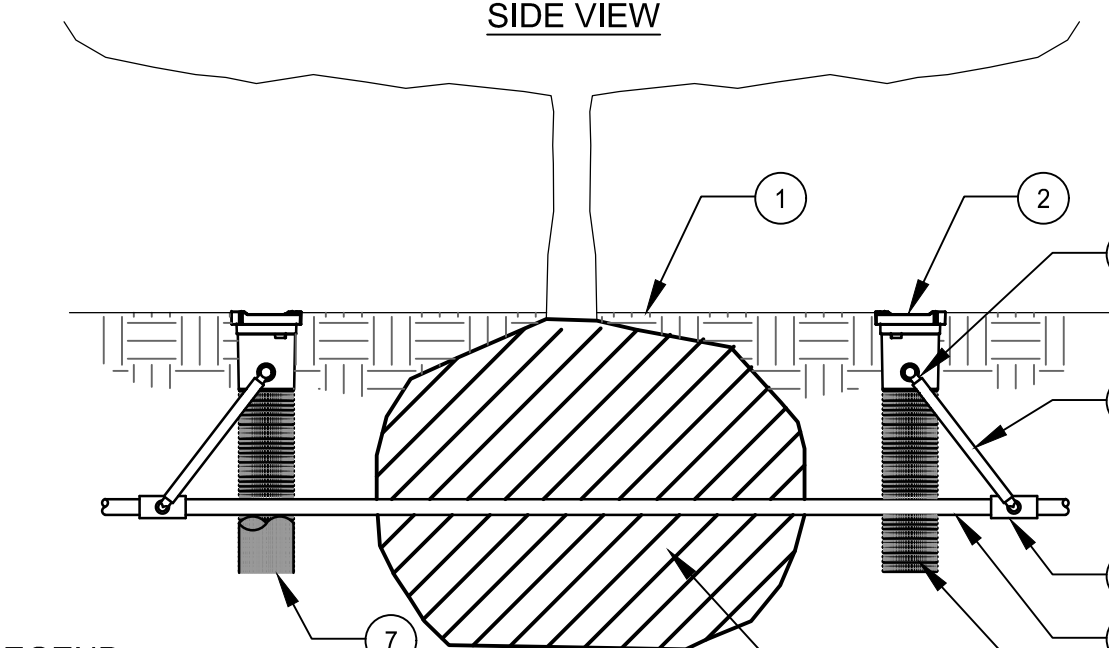


- NOTES:**
- A. USE TEFLON TAPE ON ALL MALE THREADS WITHIN ASSEMBLY.
- B. USE PVC SCH 80 45 DEGREE ELLS TO TRANSITION TO MAINLINE DEPTH.
- C. SET TOP OF VALVE BOX 1/2" ABOVE FINISHED GRADE IN TURF AREAS.
- D. IN SHRUB AREAS INSTALL VALVE BOX 2" ABOVE SOIL LEVEL OR 1" ABOVE MULCH LAYER, WHICHEVER IS HIGHER.

- LEGEND**
- | | |
|--|--|
| 1. PVC MAINLINE PIPE TO FLOW SENSOR AS REQUIRED | SIZE (2 REQ.) |
| 2. PVC SCH 80 SLIP COUPLER, AS REQUIRED | 8. NOMINAL SIZE SOLID BRICK (4 REQ.) |
| 3. 3/4" CRUSHED GRAVEL, MINIMUM 6" DEPTH | 9. PVC MAINLINE PIPE FROM BACKFLOW PREVENTION DEVICE |
| 4. LANDSCAPE FABRIC | 10. FINISH GRADE |
| 5. PVC SCH 80 UNION (2 REQ.) | 11. USE PVC SCH 80 45 DEGREE ELLS TO TRANSITION TO MAINLINE DEPTH |
| 6. PVC SCH 80 NIPPLE, MIN. LENGTH 3", VALVE SIZE (4 REQ.) | 12. 12" RECTANGULAR SPECIFICATION GRADE VALVE BOX WITH BOLT DOWN 'T' COVER. HEAT BRAND 'MV' ON LID |
| 7. PVC SCH 80 REDUCER SLIPxTHRD BUSHING, SF, MAINLINE SIZE x VALVE | 13. MASTER CONTROL VALVE. REFER TO LEGEND FOR SPECIFICATION |
| | 14. CONTROL WIRES WITH WATER TIGHT SPLICES PROVIDE 24" COIL OF WIRE AT VALVE |

5 MASTER VALVE ASSEMBLY

NTS REFERENCE SHEET IR-02, IR-04



- NOTES:**
- A. POSITION 2-3 UNITS (OR MORE) EVENLY SPACED AROUND PLANT. FOR NEW TREES PLACE NEAR ROOT BALL. FOR EXISTING TREES PLACE HALF THE DISTANCE BETWEEN CANOPY EDGE AND TREE TRUNK.
- B. INSTALL PRODUCT WITH TOP EVEN WITH FINISH GRADE OR THE TOP OF MULCH.
- C. RWS-M SERIES RWS-M-B-1401: 0.25 GPM (0.95 L/M).
- D. WHEN INSTALLING IN EXTREMELY HARD OR CLAY SOILS, ADD 3/4" (1.9 CM) GRAVEL UNDER AND AROUND THE UNIT TO ALLOW FASTER WATER INFILTRATION AND ROOT PENETRATION.
- E. ONCE RWS-M HAS BEEN INSTALLED FILL THE BASKET WITH PEA GRAVEL BEFORE LOCKING LID.
- F. OPTIONAL RWS-SOCK FOR USE IN SANDY SOILS.
- G. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

- LEGEND:**
1. FINISH GRADE/TOP OF MULCH.
 2. ROOT WATERING SYSTEM: RAIN BIRD RWS-M
 - 1/2" (1.3 CM) SPIRAL BARB FITTING (INCLUDED)
 - 1/2" (1.3 CM) SWING ASSEMBLY: RAIN BIRD SA-125050 OR 1/2" (1.3 CM) SWING PIPE: RAIN BIRD SP SERIES WITH 1/2" (1.3 CM) MALE NPT X 0.490" BARB ELBOW: RAIN BIRD SBE-050.
 - PVC SCH 40 TEE OR ELL.
 - PVC OR POLYETHYLENE LATERAL PIPE.
 - OPTIONAL SOCK (RWS-SOCK) FOR SANDY SOILS.
 - 4" (10.2 CM) WIDE X 18" (45.7 CM) LONG RIGID BASKET WEAVE CANISTER (INCLUDED).
 - PLANT ROOT BALL

6 ROOT WATERING SYSTEM - TREE INSTALLATION

NTS REFERENCE SHEET IR-02, IR-03, IR-04

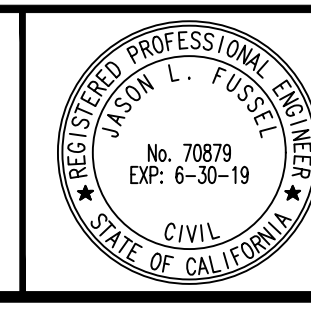
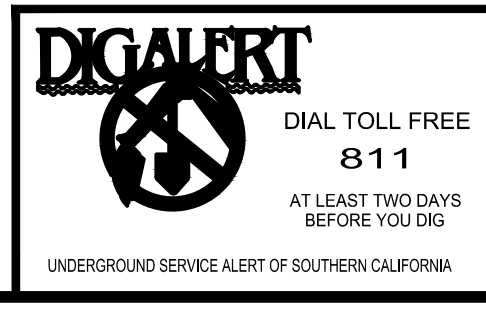
CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

IRRIGATION DETAILS

REVIEWED BY AND APPROVED BY
SEE TITLE SHEET

SHEET
IR-07
SHEET 42 OF 85 SHEETS

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PLANS PREPARED UNDER THE SUPERVISION OF:
DATE: 05/20/2019
PROJECT NUMBER # PZ-460
DRAWING NO.

NO.	REVISION	BY	APPR.	DATE

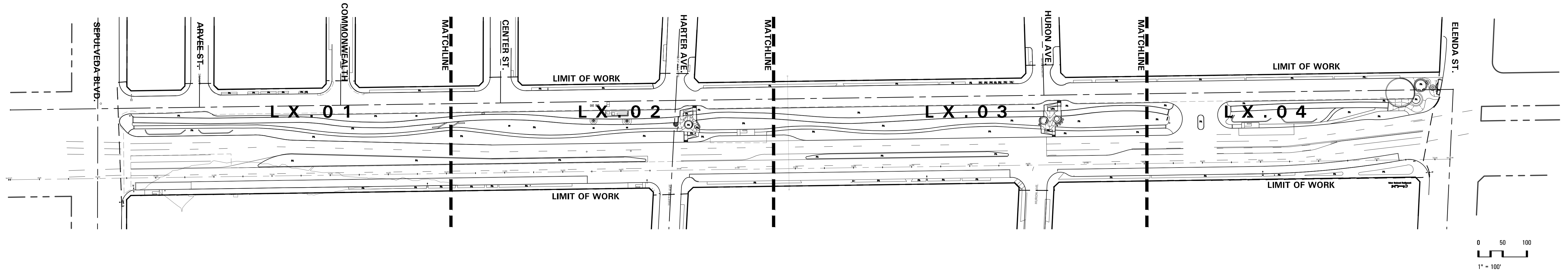
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Bar Measures 1 inch

CONSTRUCTION DOCUMENTS LANDSCAPE PACKAGE - 90%

CULVER BOULEVARD REALIGNMENT LANDSCAPE

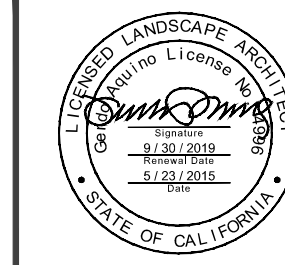
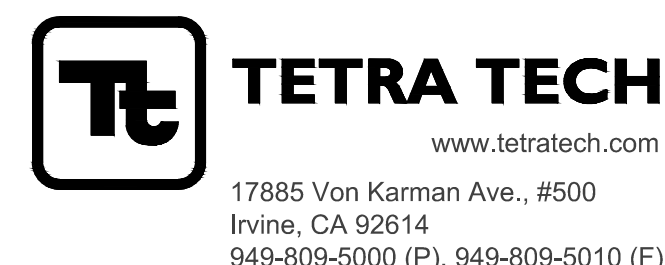
CULVER CITY, CALIFORNIA



Sheet List Table	
Sheet Number	Sheet Title
L0.00	COVER SHEET KEY MAP INDEX
L0.01	EXISTING TREE AND PROTECTION LEGEND
L0.02	EXISTING TREE & PROTECTION PLAN
L0.03	EXISTING TREE & PROTECTION PLAN
L0.04	EXISTING TREE & PROTECTION PLAN
L0.05	EXISTING TREE & PROTECTION PLAN
L0.06	EXISTING CULTURAL RELIC LOCATION
L1.00	LAYOUT LEGEND AND NOTES
L1.01	LAYOUT PLAN FOR PATHS
L1.02	LAYOUT PLAN FOR PATHS
L1.03	LAYOUT PLAN FOR PATHS
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L1.05	LAYOUT ENLARGEMENT PLAN
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L2.00	GRADING LEGEND AND NOTES
L2.01	GRADING AND DRAINAGE PLAN
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L2.03	GRADING AND DRAINAGE PLAN
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L3.00	PAVING LEGEND
L3.01	PAVING PLAN
L3.02	PAVING PLAN
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L3.04	PAVING PLAN
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L4.03	PLANTING PLAN
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L7.01	PLANTING DETAILS

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PLANS PREPARED UNDER THE SUPERVISION OF:
Jason Fusssel
 JASON FUSSEL, RCE-70879 EXP. 06/30/19 DATE
 PROJECT NUMBER # PZ-460
 DRAWING NO.

NO.	REVISION	BY	APPR.	DATE
	60% CONSTRUCTION DOCUMENTS			2018/09/13
	75% CONSTRUCTION DOCUMENTS			2018/11/02
	90% CONSTRUCTION DOCUMENTS			2019/05/23



CITY OF CULVER CITY
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
 CULVER BOULEVARD REALIGNMENT PROJECT
 (BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

COVER SHEET KEY MAP INDEX
 REVIEWED BY AND APPROVED BY
 SEE TITLE SHEET
 SHEET **L0.00**
 SHEET 43 OF 65 SHEETS

5049-212

Bar Measures 1 inch

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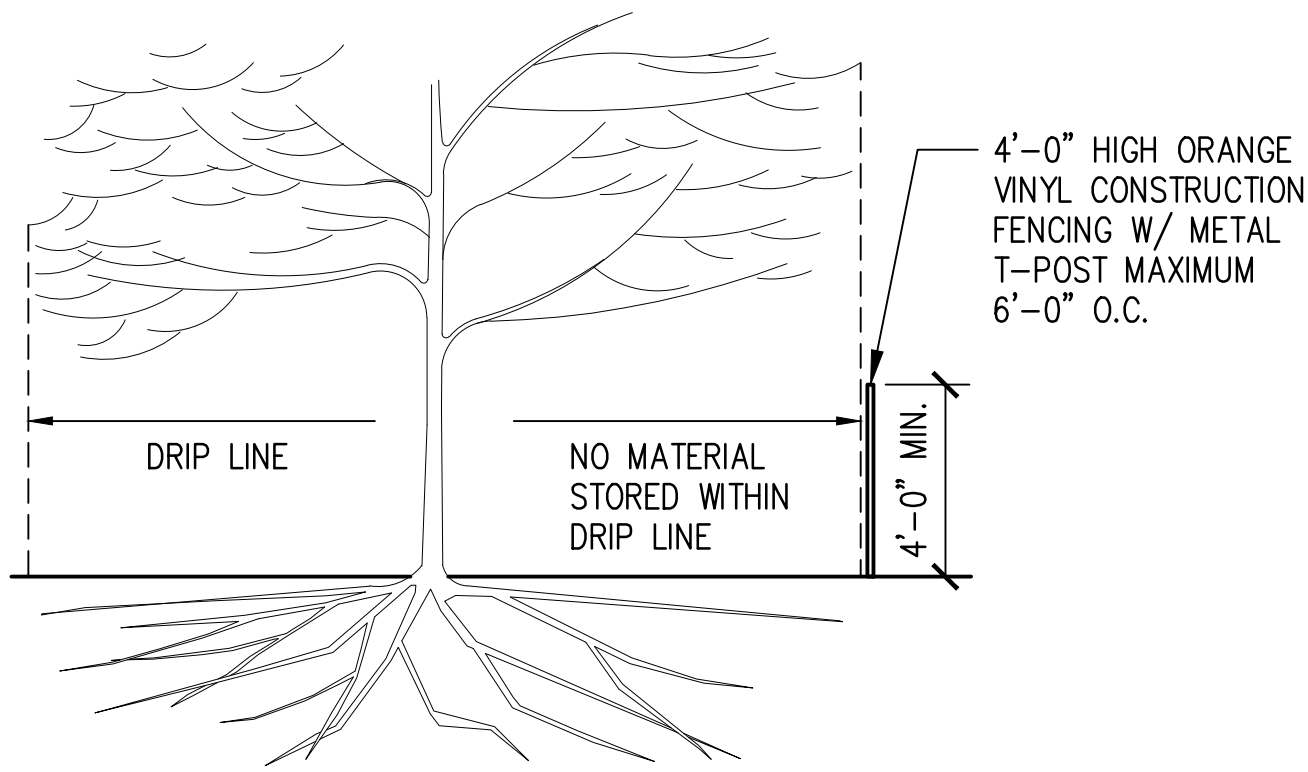
TREE PROTECTION & REMOVAL LEGEND		
SYMBOL	DESCRIPTION	DETAIL(S)
	PROTECT EXISTING TREE IN PLACE. SEE SPECIFICATIONS FOR TREATMENT. REFER TO NOTES ON SHEET L0.01 TREE PROTECTION GUIDELINES. TREE PROTECTION FENCE - FOR GRAPHIC DEPICTION ONLY. FOR EXTENTS OF FENCE SEE SPECS.	01/L0.01
	EXISTING TREE TO BE DEMOLISHED AND REMOVED. REMOVE ENTIRETY OF TREE; ALL ROOT MATERIALS.	

TREE PRESERVATION SPECIFICATIONS

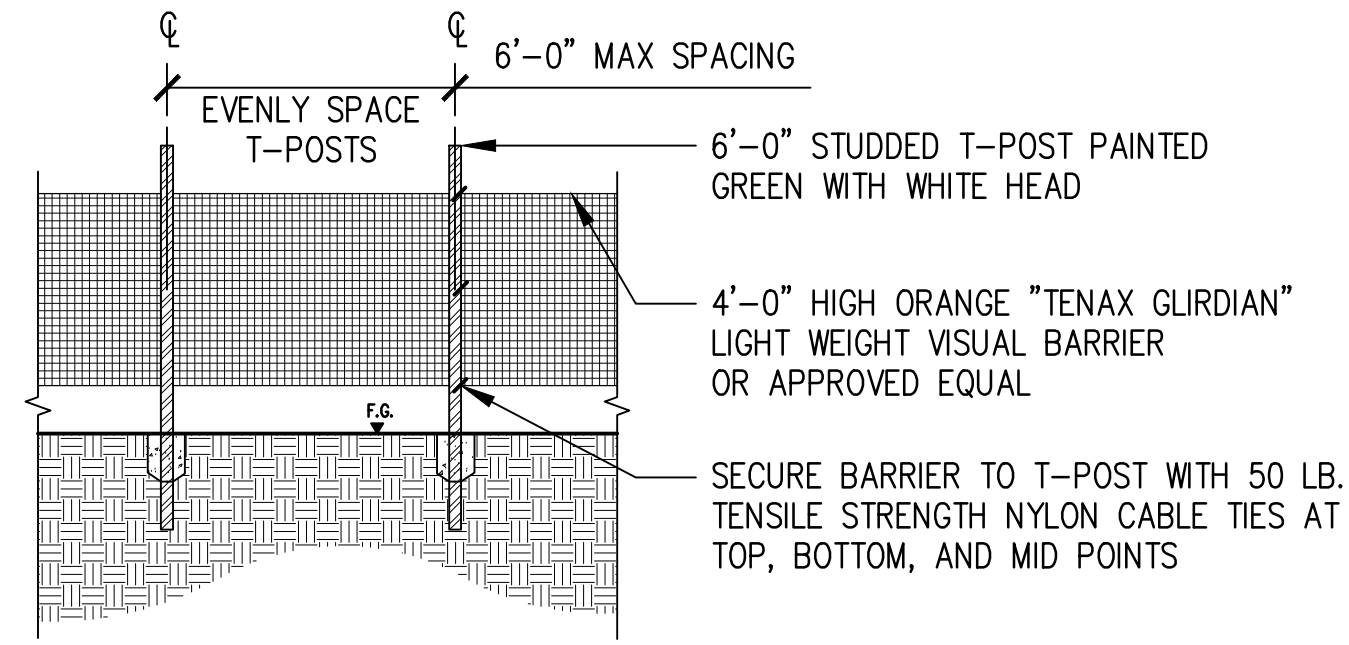
- THE CONTRACTOR, THROUGHOUT THE DURATION OF THE PROJECT, SHALL BE DIRECTLY RESPONSIBLE FOR PROTECTION AND WELFARE OF EXISTING TREES, SHRUBS AND GROUND COVER WITHIN AND AROUND THE CONTRACT LIMITS THAT ARE NOTED TO REMAIN. RESPONSIBILITIES SHALL INCLUDE BUT NOT BE LIMITED TO:
 - WATERING THROUGHOUT THE DURATION OF CONSTRUCTION AND PROVIDE SUPPLEMENTAL IRRIGATION TO TREES AS DIRECTED BY THE OWNER.
 - ENGAGING AN EXPERIENCED TREE SERVICE FIRM WITH WORKMAN HAVING THE FOLLOWING QUALIFICATIONS: A LICENSED ARBORIST SHALL PERFORM TREE TRIMMING. NOT MORE THAN 1/3 OF THE FOLIAGE OF A TREE SHALL BE REMOVED IN A 12-MONTH PERIOD. PROVIDE AT LEAST ONE PERSON APPROVED BY THE OWNER WHO SHALL BE PRESENT AT ALL TIMES DURING TREE PROTECTION AND TRIMMING OPERATIONS, WHO SHALL BE THOROUGHLY FAMILIAR WITH THE TYPE OF WORK INVOLVED, AND WHO SHALL DIRECT ALL PROTECTION AND TRIMMING WORK THROUGHOUT THE CONSTRUCTION DURATION.
 - PROVIDING ALL PROTECTION FENCING AS REQUIRED AND PROVIDING PROTECTION FROM MECHANICAL DAMAGE, SOIL COMPACTION, POLLUTION FROM ALL SOURCES, AND DISRUPTION OF ENVIRONMENTAL SUPPORT THAT WOULD RESULT IN THE LOSS OF VIGOR OF SAID PLANTINGS.
- PRE-INSTALLATION CONFERENCE: CONDUCT CONFERENCE AT THE PROJECT SITE TO COMPLY WITH TREE PROTECTION REQUIREMENTS OF THE OWNER.
 - BEFORE COMMENCING TREE PROTECTION AND TRIMMING, MEET WITH REPRESENTATIVES TO REVIEW TREE PROTECTION AND TRIMMING PROCEDURES AND RESPONSIBILITIES AND ANY MEANS AND FOR PROTECTION OR TEMPORARY ACCESS UNDER THE TPZ.
- DEFINITIONS:
 - TREE PROTECTION ZONE (TPZ): THE AREA OF 'NO CONSTRUCTION' THAT PROHIBITS UNDERGROUND TRENCHING AND IS TO BE MAINTAINED AS ZONES FREE OF DISTURBANCES AND COMPACTION PRIOR TO INSTALLATION OF PROTECTION FENCE.
 - DRIP LINE: AN IMAGINARY LINE ON THE GROUND AROUND A TREE REPRESENTING ITS OUTERMOST BRANCH TIPS. ALL OF THE AREA WITHIN THE DRIP LINE OF EXISTING TREES TO REMAIN IS TO BE PROTECTED FROM DAMAGE AS SPECIFIED HEREIN, UNLESS OTHERWISE NOTED.
- PROTECTION FENCE: PROVIDE ADEQUATE PROTECTION OF EXISTING TREES TO REMAIN AGAINST, ABOVE AND BELOW GRADE DAMAGE FROM CONSTRUCTION OPERATIONS AND COMPACTION OF CURIAL ROOT ZONE AREAS. INSTALL 4'-0" HIGH ORANGE VINYL CONSTRUCTION FENCING AT OR BEYOND CANOPY/DRIP LINE. PROTECTIVE FENCING SHALL BE IN PLACE BEFORE ANY OTHER WORK IS BEGUN ON SITE, INCLUDING MATERIALS DELIVERY AND STORAGE. THE FENCE WILL BE MAINTAINED AND REMAIN UNTIL THE PROJECT IS COMPLETE AND DIRECTION FOR REMOVAL IS RECEIVED FROM THE OWNER.
 - TRUNK PROTECTION: TAKE EXTREME CARE TO PROTECT THE TRUNK AND ROOTS IN THE TPZ RADIUS, INCLUSIVE OF THE TREE FOLIAGE.
 - USING TREES AS SUPPORT POSTS, BRACING, POWER POLES, SIGN POSTS, ROPE ANCHORAGES, GUY WIRE SUPPORTS, POWER LINES OR OTHER SIMILAR FUNCTIONS IS PROHIBITED.
 - THERE SHALL BE NO DISPOSING PAINT, PETROLEUM PRODUCTS, POLLUTED WATER, SOIL STERILANTS, OR OTHER ITEMS CONSIDERED DELETERIOUS TO THE HEALTH OF TREE ROOTS.
 - GRADING OR SOIL ELEVATION CHANGES AROUND AND AGAINST THE TRUNK OF THE SURROUNDING ROOT ZONE MEASURED FROM THE DRIP LINE INTO THE TRUNK ARE ONLY AS DIRECTED BY THE OWNER.
- DAMAGED TREE(S): ANY TREE TO REMAIN THAT IS DAMAGED OR DESTROYED DUE TO CONSTRUCTION PROCEDURE, CONTRACTOR NEGLIGENCE OR FAILURE TO PROVIDE ADEQUATE PROTECTION REQUIRES IMMEDIATE NOTIFICATION OF THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL COMPENSATE THE OWNER IN ACCORDANCE WITH THE FOLLOWING SCHEDULE OF VALUES, USING ISA PER ARBORIST AND OR LOCAL JURISDICTION. COORDINATION OF CORRECTIVE REPAIRS AND COST OF CORRECTIVE REPAIRS SHALL BE BORNE BY CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
- ROOT PRUNING PROCEDURE: APPROVAL: NO ROOT PRUNING SHALL BE PERFORMED WITHOUT THE APPROVAL OF THE OWNER. AVOID ROOT PRUNING TO PREVENT DISRUPTION OF NUTRIENTS, WATER UPTAKE AND NATURAL STABILITY OF THE ROOT SYSTEM. NOTIFY THE OWNER IF ROOT PRUNING BECOMES NECESSARY DURING THE COURSE OF CONSTRUCTION. REVIEW OF ROOT PRUNING METHOD SHALL BE MADE WITH THE PROJECT LANDSCAPE ARCHITECT AND THE OWNER BEFORE WORK IS PERFORMED. ROOT PRUNING PROCEDURES AS NOTED IS INITIATED WHEN ROOT OF 2 INCHES AND LARGER IN DIAMETER ARE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION.
 - ROOT PRUNING: ALL ROOTS ARE TO BE CUT WITH A SAW, LOPPING SHEARS, OR APPROVED CUTTING DEVICE TO LEAVE A CLEAN CUT SURFACE AT THE ROOT END. SPLINTERED OR SHREDDED ENDS SHALL BE UNACCEPTABLE. DO NOT CUT MAIN LATERAL ROOTS OR TAP ROOTS; CUT ONLY SMALLER ROOTS THAT INTERFERE WITH INSTALLATION OF NEW WORK. CUT ROOTS WITH SHARP PRUNING INSTRUMENTS; DO NOT BREAK OR CHOP.
 - ROOT PROTECTION AFTER CUTTING: KEEP AREA MOIST AND OR COVERED WITH MOIST SOIL UNTIL PERMANENT BACK FILL IS PLACED OR AS DIRECTED BY OWNER.

DRIP LINE:
WHICHEVER HAS THE GREATEST AREA

- THE IRREGULAR SHAPE FORMED AROUND A TREE BY A SERIES OF VERTICAL LINES THAT RUNS THROUGH THE OVER MOST PORTION OF THE TREE AND EXTEND TO THE GROUND.
- CIRCULAR AREA WITH A RADIUS OF 1/2 THE HEIGHT OF THE TREE EXTENDING OUTWARD FROM THE CENTER POINT OF THE TREE.



01 TREE PROTECTION
NOT TO SCALE



02 TEMPORARY PROTECTION FENCE - ELEVATION
NOT TO SCALE

swa
811 W 7th Street, 8th Floor
Los Angeles, California
90017-3419
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+1.213.236.9090

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PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

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949-809-5000 (P), 949-809-5010 (F)

LANDSCAPE ARCHITECT
Dunk & Pines
STATE OF CALIFORNIA

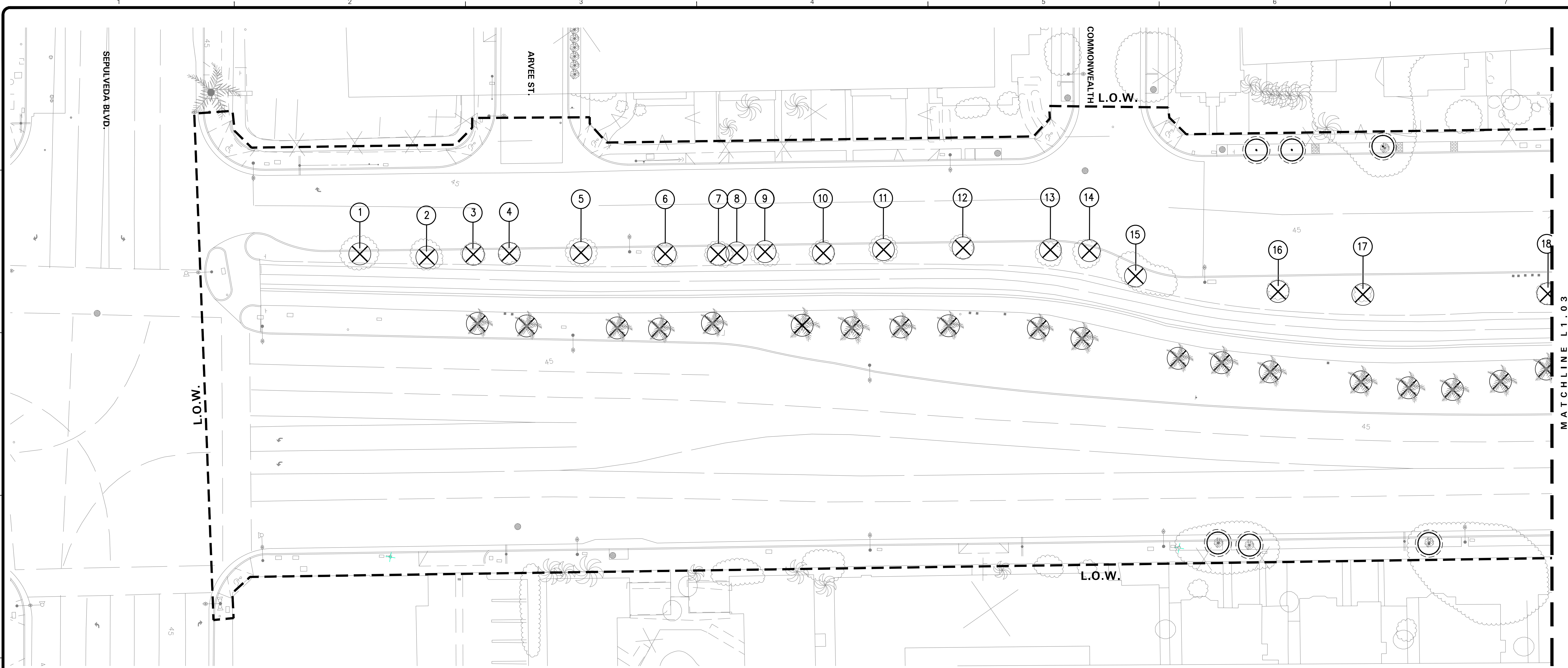
PLANS PREPARED UNDER THE SUPERVISION OF:
Dunk & Pines
JASON FUSSEL RCE-70879 EXP. 06/30/19 DATE
PROJECT NUMBER # PZ-460
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EXISTING TREE & PROTECTION
LEGEND & NOTES
REVIEWED BY AND APPROVED BY
SEE TITLE SHEET
SHEET
L0.01
SHEET 44 OF 85 SHEETS

5049-212

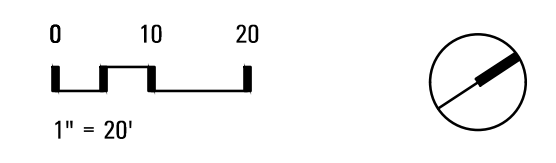
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REFERENCE	SPECIES	ACTION
TREE 1	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 2	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 3	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 4	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 5	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 6	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 7	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 8	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 9	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 10	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 11	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 12	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 13	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 14	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 15	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 16	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 17	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 18	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 19	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 20	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 21	PYRUS CALLERYANA	PROTECT IN PLACE
TREE 22	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 23	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 24	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 25	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 26	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 27	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 28	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 29	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 30	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 31	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 32	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 33	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 34	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 35	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 36	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 37	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 38	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 39	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 40	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 41	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 42	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 43	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 44	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 45	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 46	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 47	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 48	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 49	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 50	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 51	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 52	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 53	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 54	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 55	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 56	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE

TREE 57	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 58	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 59	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 60	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 61	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 62	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 63	JACARANDA MIMOSIFOLIA	PROTECT IN PLACE
TREE 64	PLATANUS X HISPANICA	TO BE REMOVED
TREE 65	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 66	ERYTHRINA	PROTECT IN PLACE
TREE 67	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 68	JACARANDA MIMOSIFOLIA	PROTECT IN PLACE
TREE 69	JUNIPERUS CHINENSIS	DEMOLISH AND REMOVE
TREE 70	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 71	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 72	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 73	JACARANDA MIMOSIFOLIA	DEMOLISH AND REMOVE
TREE 74	JACARANDA MIMOSIFOLIA	DEMOLISH AND REMOVE
TREE 75	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 76	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 77	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 78	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 79	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 80	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 81	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 82	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 83	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 84	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 85	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 86	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 87	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 88	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 89	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 90	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 91	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 92	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 93	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 94	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 95	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 95-143	WASHINGTONIA ROBUSTA	DEMOLISH AND REMOVE

TREE PROTECTION & REMOVAL LEGEND		
SYMBOL	DESCRIPTION	DETAIL(S)
	PROTECT EXISTING TREE IN PLACE. SEE SPECIFICATIONS FOR TREATMENT. REFER TO NOTES ON SHEET L.O.01 TREE PROTECTION GUIDELINES. TREE PROTECTION FENCE - FOR GRAPHIC DEPICTION ONLY. FOR EXTENTS OF FENCE SEE SPECS.	01/L.O.01
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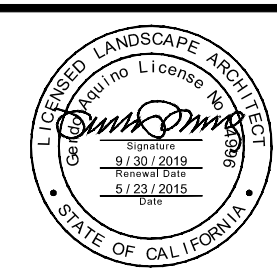


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PLANS PREPARED UNDER THE SUPERVISION OF:
Jason Fusssel
 JASON FUSSEL RCE-70879 EXP. 06/30/19 DATE
 PROJECT NUMBER # PZ-460
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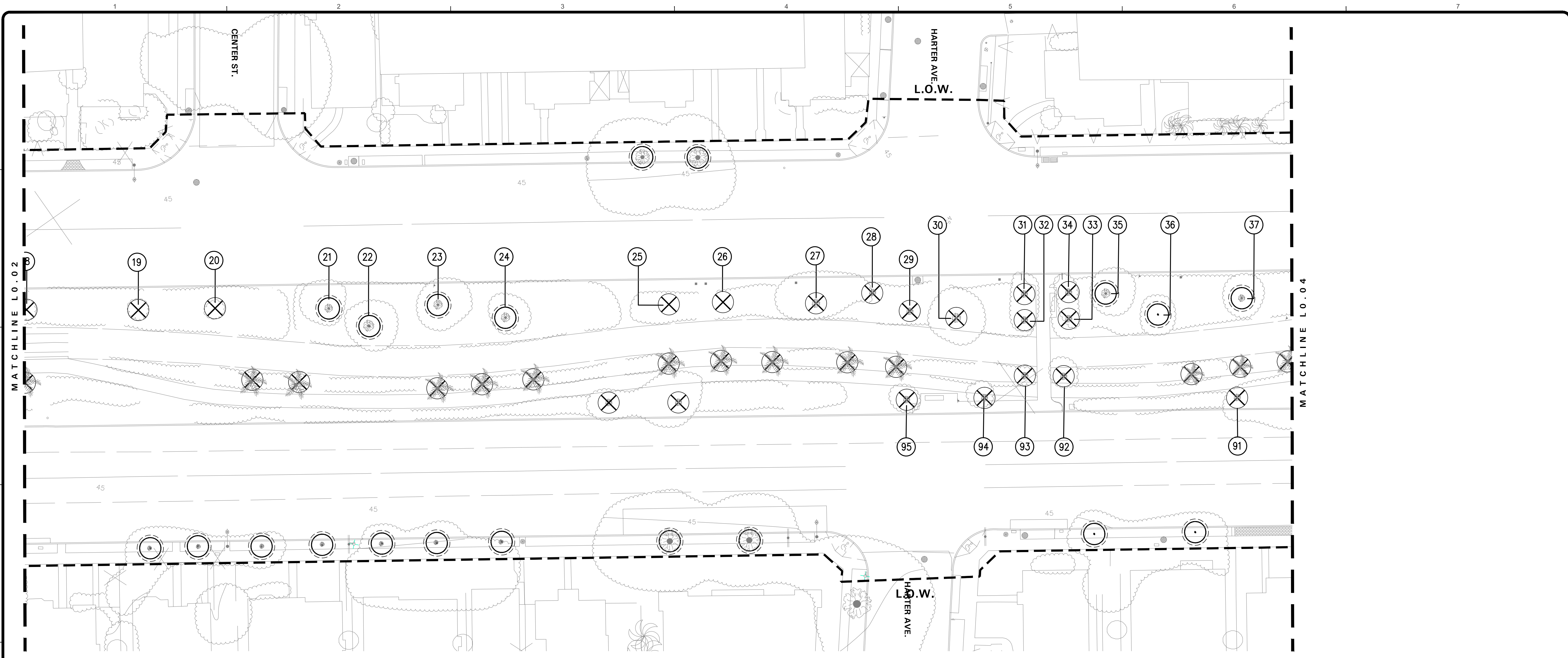
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EXISTING TREE & PROTECTION PLAN
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 SHEET **L.O.02**
 SHEET 45 OF 85 SHEETS

5049-212

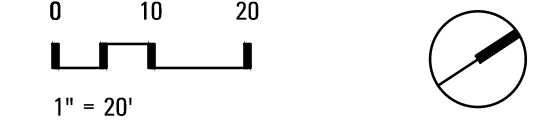
Bar Measures 1 inch

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REFERENCE	SPECIES	ACTION	REFERENCE	SPECIES	ACTION	REFERENCE	SPECIES	ACTION
TREE 1	PYRUS CALLERYANA	DEMOLISH AND REMOVE	TREE 29	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 57	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 2	PYRUS CALLERYANA	DEMOLISH AND REMOVE	TREE 30	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 58	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 3	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 31	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE	TREE 59	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 4	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 32	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE	TREE 60	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 5	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 33	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE	TREE 61	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 6	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 34	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE	TREE 62	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 7	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 35	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 63	JACARANDA MIMOSIFOLIA	PROTECT IN PLACE
TREE 8	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 36	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 64	PLATANUS X HISPANICA	TO BE REMOVED
TREE 9	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 37	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 65	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 10	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 38	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 66	ERYTHRINA	PROTECT IN PLACE
TREE 11	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 39	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 67	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 12	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 40	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 68	JACARANDA MIMOSIFOLIA	PROTECT IN PLACE
TREE 13	PYRUS CALLERYANA	DEMOLISH AND REMOVE	TREE 41	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 69	JUNIPERUS CHINENSIS	DEMOLISH AND REMOVE
TREE 14	PYRUS CALLERYANA	DEMOLISH AND REMOVE	TREE 42	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 70	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 15	PYRUS CALLERYANA	DEMOLISH AND REMOVE	TREE 43	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 71	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 16	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 44	PYRUS CALLERYANA	DEMOLISH AND REMOVE	TREE 72	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 17	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 45	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 73	JACARANDA MIMOSIFOLIA	DEMOLISH AND REMOVE
TREE 18	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 46	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 74	JACARANDA MIMOSIFOLIA	DEMOLISH AND REMOVE
TREE 19	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 47	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 75	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 20	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 48	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 76	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 21	PYRUS CALLERYANA	PROTECT IN PLACE	TREE 49	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 77	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 22	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 50	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 78	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 23	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 51	PLATANUS X HISPANICA	PROTECT IN PLACE	TREE 79	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 24	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 52	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 80	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 25	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 53	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE	TREE 81	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 26	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 54	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE	TREE 82	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 27	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 55	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE			
TREE 28	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 56	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE			

SYMBOL	DESCRIPTION	DETAIL(S)
	PROTECT EXISTING TREE IN PLACE. SEE SPECIFICATIONS FOR TREATMENT. REFER TO NOTES ON SHEET L0.01 TREE PROTECTION GUIDELINES. TREE PROTECTION FENCE - FOR GRAPHIC DEPICTION ONLY. FOR EXTENTS OF FENCE SEE SPECS.	01/L0.01
	EXISTING TREE TO BE DEMOLISHED AND REMOVED. REMOVE ENTIRETY OF TREE; ALL ROOT MATERIALS.	



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LANDSCAPE ARCHITECTS
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Jason Fusssel
JASON FUSSEL, RCE - 70879 EXP. 06/30/19 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

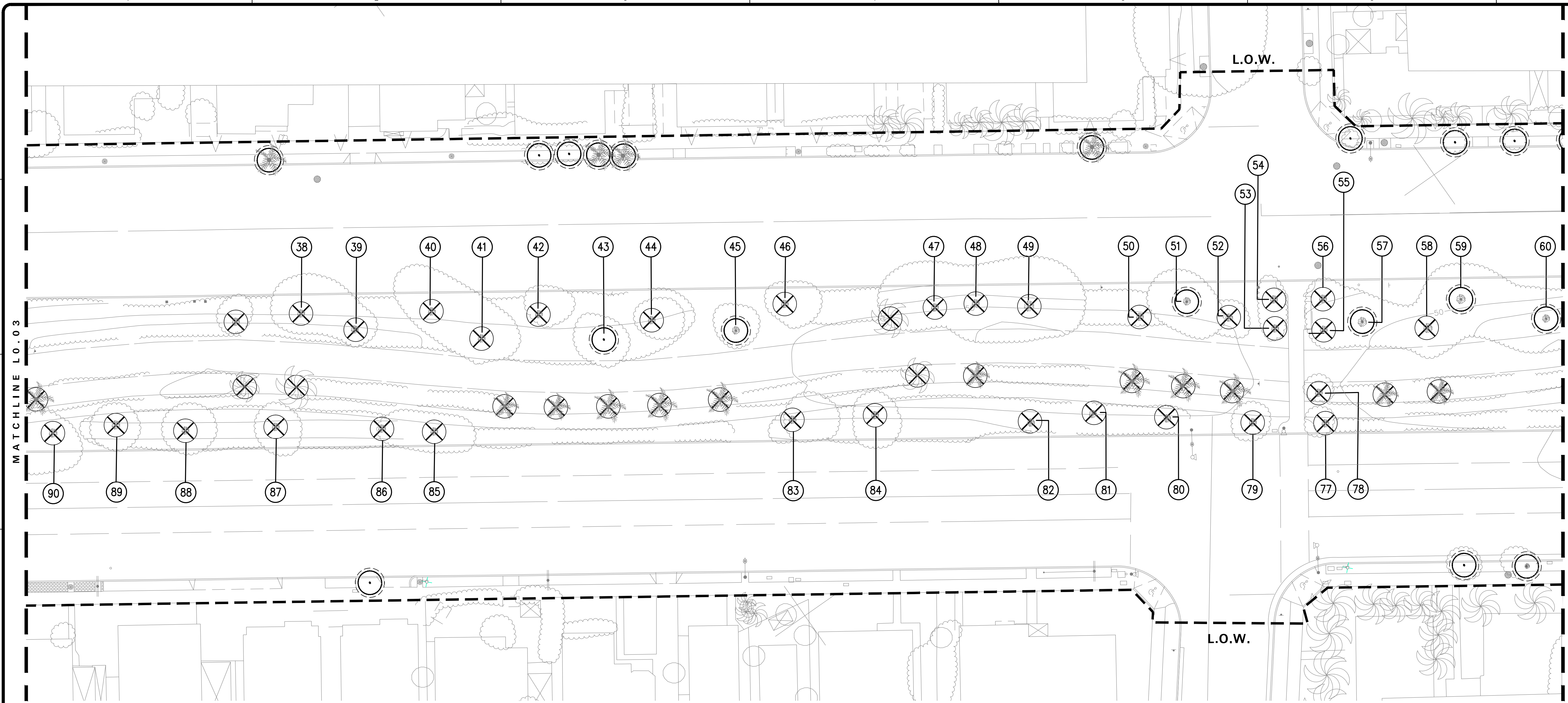
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EXISTING TREE & PROTECTION PLAN
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SHEET **L0.03**
SHEET 46 OF 65 SHEETS

5049-212

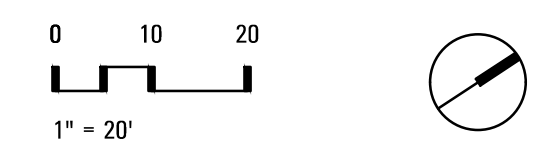
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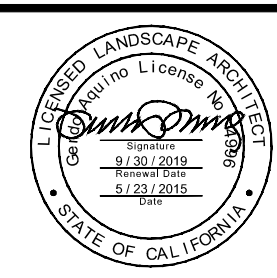
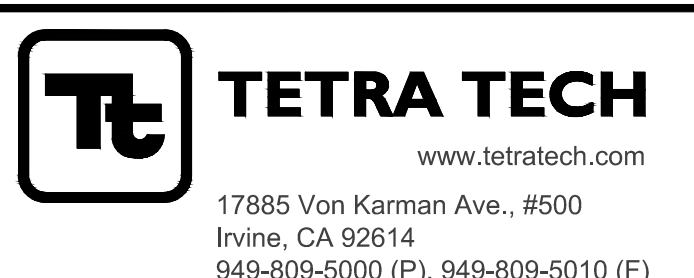
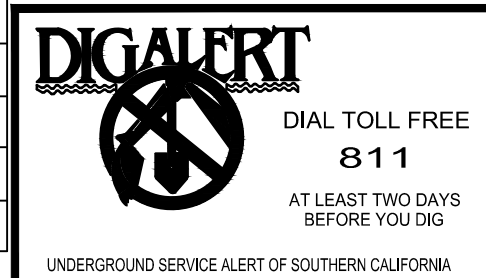
TREE DEMOLITION & PROTECTION SCHEDULE					
REFERENCE	SPECIES	ACTION	REFERENCE	SPECIES	ACTION
TREE 1	PYRUS CALLERYANA	DEMOLISH AND REMOVE	TREE 29	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 2	PYRUS CALLERYANA	DEMOLISH AND REMOVE	TREE 30	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 3	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 31	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 4	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 32	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 5	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 33	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 6	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 34	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 7	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 35	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 8	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 36	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 9	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 37	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 10	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 38	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 11	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 39	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 12	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 40	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 13	PYRUS CALLERYANA	DEMOLISH AND REMOVE	TREE 41	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 14	PYRUS CALLERYANA	DEMOLISH AND REMOVE	TREE 42	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 15	PYRUS CALLERYANA	DEMOLISH AND REMOVE	TREE 43	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 16	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 44	PYRUS CALLERYANA	DEMOLISH AND REMOVE
TREE 17	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 45	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 18	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 46	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 19	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 47	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 20	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 48	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 21	PYRUS CALLERYANA	PROTECT IN PLACE	TREE 49	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 22	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 50	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 23	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 51	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 24	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 52	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 25	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 53	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 26	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 54	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 27	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 55	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 28	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 56	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 57	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 83	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 58	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 84	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 59	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 85	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 60	PLATANUS X HISPANICA	PROTECT IN PLACE	TREE 86	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 61	PLATANUS X HISPANICA	PROTECT IN PLACE	TREE 87	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 62	PLATANUS X HISPANICA	PROTECT IN PLACE	TREE 88	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 63	JACARANDA MIMOSFOLIA	PROTECT IN PLACE	TREE 89	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 64	PLATANUS X HISPANICA	TO BE REMOVED	TREE 90	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 65	PRUNUS CERASIFERA	DEMOLISH AND REMOVE	TREE 91	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 66	ERYTHRINA	PROTECT IN PLACE	TREE 92	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 67	PRUNUS CERASIFERA	DEMOLISH AND REMOVE	TREE 93	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 68	JACARANDA MIMOSFOLIA	PROTECT IN PLACE	TREE 94	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 69	JUNIPERUS CHINENSIS	DEMOLISH AND REMOVE	TREE 95	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 70	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 95-143	WASHINGTONIA ROBUSTA	DEMOLISH AND REMOVE
TREE 71	PINUS CANARIENSIS	PROTECT IN PLACE			
TREE 72	PINUS CANARIENSIS	PROTECT IN PLACE			
TREE 73	JACARANDA MIMOSFOLIA	DEMOLISH AND REMOVE			
TREE 74	JACARANDA MIMOSFOLIA	DEMOLISH AND REMOVE			
TREE 75	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE			
TREE 76	PINUS CANARIENSIS	DEMOLISH AND REMOVE			
TREE 77	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE			
TREE 78	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE			
TREE 79	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE			
TREE 80	PLATANUS X HISPANICA	DEMOLISH AND REMOVE			
TREE 81	PLATANUS X HISPANICA	DEMOLISH AND REMOVE			
TREE 82	PLATANUS X HISPANICA	DEMOLISH AND REMOVE			

TREE PROTECTION & REMOVAL LEGEND		
SYMBOL	DESCRIPTION	DETAIL(S)
	PROTECT EXISTING TREE IN PLACE. SEE SPECIFICATIONS FOR TREATMENT. REFER TO NOTES ON SHEET L0.01 TREE PROTECTION GUIDELINES. TREE PROTECTION FENCE - FOR GRAPHIC DEPICTION ONLY. FOR EXTENTS OF FENCE SEE SPECS.	01/L0.01
	EXISTING TREE TO BE DEMOLISHED AND REMOVED. REMOVE ENTIRETY OF TREE; ALL ROOT MATERIALS.	



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CITY OF CULVER CITY
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
 CULVER BOULEVARD REALIGNMENT PROJECT
 (BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)



PLANS PREPARED UNDER THE SUPERVISION OF:

 JASON FUSSEL RCE-70879 EXP. 06/30/19 DATE _____
 PROJECT NUMBER # PZ-460
 DRAWING NO. _____

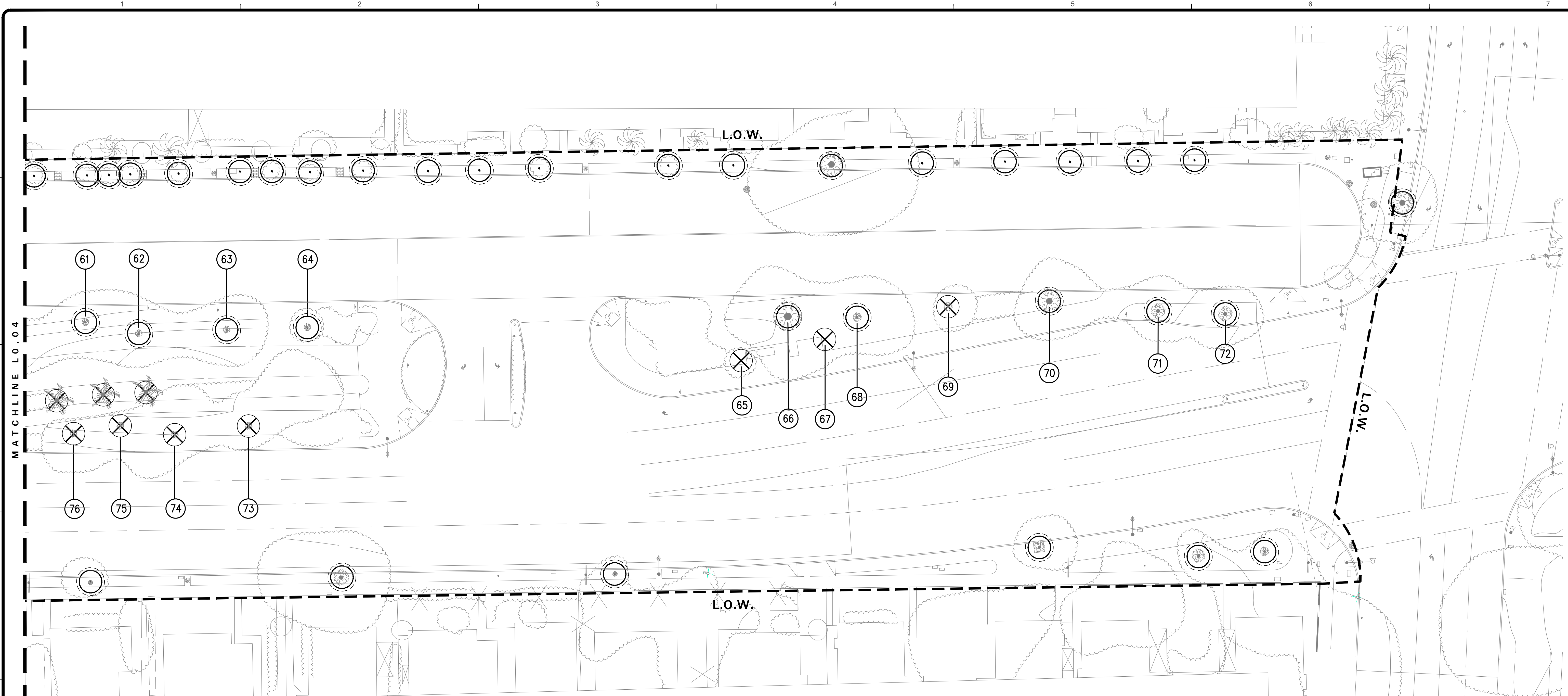
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	60% CONSTRUCTION DOCUMENTS			2018/09/13
	75% CONSTRUCTION DOCUMENTS			2018/11/02
	90% CONSTRUCTION DOCUMENTS			2019/05/23

EXISTING TREE & PROTECTION PLAN
 REVIEWED BY AND APPROVED BY
 SEE TITLE SHEET
 SHEET **L0.04**
 SHEET 47 OF 65 SHEETS

5049-212

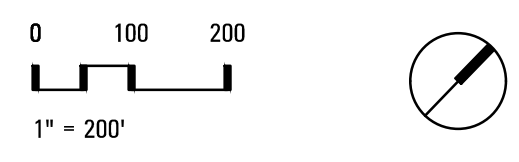
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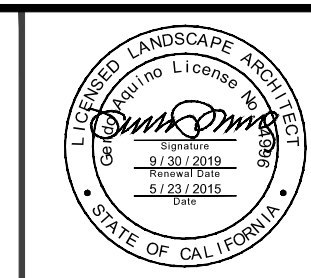
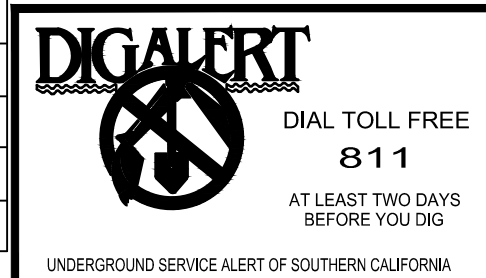
REFERENCE	SPECIES	ACTION	REFERENCE	SPECIES	ACTION	REFERENCE	SPECIES	ACTION
TREE 1	PYRUS CALLERYANA	DEMOLISH AND REMOVE	TREE 29	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 57	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 2	PYRUS CALLERYANA	DEMOLISH AND REMOVE	TREE 30	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 58	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 3	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 31	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE	TREE 59	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 4	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 32	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE	TREE 60	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 5	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 33	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE	TREE 61	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 6	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 34	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE	TREE 62	PLATANUS X HISPANICA	PROTECT IN PLACE
TREE 7	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 35	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 63	JACARANDA MIMOSFOLIA	PROTECT IN PLACE
TREE 8	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 36	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 64	PLATANUS X HISPANICA	TO BE REMOVED
TREE 9	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 37	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 65	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 10	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 38	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 66	ERYTHRINA	PROTECT IN PLACE
TREE 11	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 39	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 67	PRUNUS CERASIFERA	DEMOLISH AND REMOVE
TREE 12	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 40	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 68	JACARANDA MIMOSFOLIA	PROTECT IN PLACE
TREE 13	PYRUS CALLERYANA	DEMOLISH AND REMOVE	TREE 41	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 69	JUNIPERUS CHINENSIS	DEMOLISH AND REMOVE
TREE 14	PYRUS CALLERYANA	DEMOLISH AND REMOVE	TREE 42	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 70	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 15	PYRUS CALLERYANA	DEMOLISH AND REMOVE	TREE 43	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 71	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 16	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 44	PYRUS CALLERYANA	DEMOLISH AND REMOVE	TREE 72	PINUS CANARIENSIS	PROTECT IN PLACE
TREE 17	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 45	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 73	JACARANDA MIMOSFOLIA	DEMOLISH AND REMOVE
TREE 18	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 46	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 74	JACARANDA MIMOSFOLIA	DEMOLISH AND REMOVE
TREE 19	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 47	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 75	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE
TREE 20	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 48	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 76	PINUS CANARIENSIS	DEMOLISH AND REMOVE
TREE 21	PYRUS CALLERYANA	PROTECT IN PLACE	TREE 49	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 77	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 22	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 50	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 78	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 23	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 51	PLATANUS X HISPANICA	PROTECT IN PLACE	TREE 79	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE
TREE 24	PINUS CANARIENSIS	PROTECT IN PLACE	TREE 52	PINUS CANARIENSIS	DEMOLISH AND REMOVE	TREE 80	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 25	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 53	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE	TREE 81	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 26	PLATANUS X HISPANICA	DEMOLISH AND REMOVE	TREE 54	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE	TREE 82	PLATANUS X HISPANICA	DEMOLISH AND REMOVE
TREE 27	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 55	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE			
TREE 28	CORYMBIA CITRIODORA	DEMOLISH AND REMOVE	TREE 56	LAGERSTROEMIA INDICA	DEMOLISH AND REMOVE			

TREE PROTECTION & REMOVAL LEGEND		
SYMBOL	DESCRIPTION	DETAIL(S)
	PROTECT EXISTING TREE IN PLACE. SEE SPECIFICATIONS FOR TREATMENT. REFER TO NOTES ON SHEET L0.01 TREE PROTECTION GUIDELINES. TREE PROTECTION FENCE - FOR GRAPHIC DEPICTION ONLY. FOR EXTENTS OF FENCE SEE SPECS.	01/L0.01
	EXISTING TREE TO BE DEMOLISHED AND REMOVED. REMOVE ENTIRETY OF TREE; ALL ROOT MATERIALS.	



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CITY OF CULVER CITY
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
 CULVER BOULEVARD REALIGNMENT PROJECT
 (BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)



PLANS PREPARED UNDER THE SUPERVISION OF:
Jason Fusssel
 JASON FUSSEL RCE-70879 EXP. 06/30/19 DATE
 PROJECT NUMBER # PZ-460
 DRAWING NO.

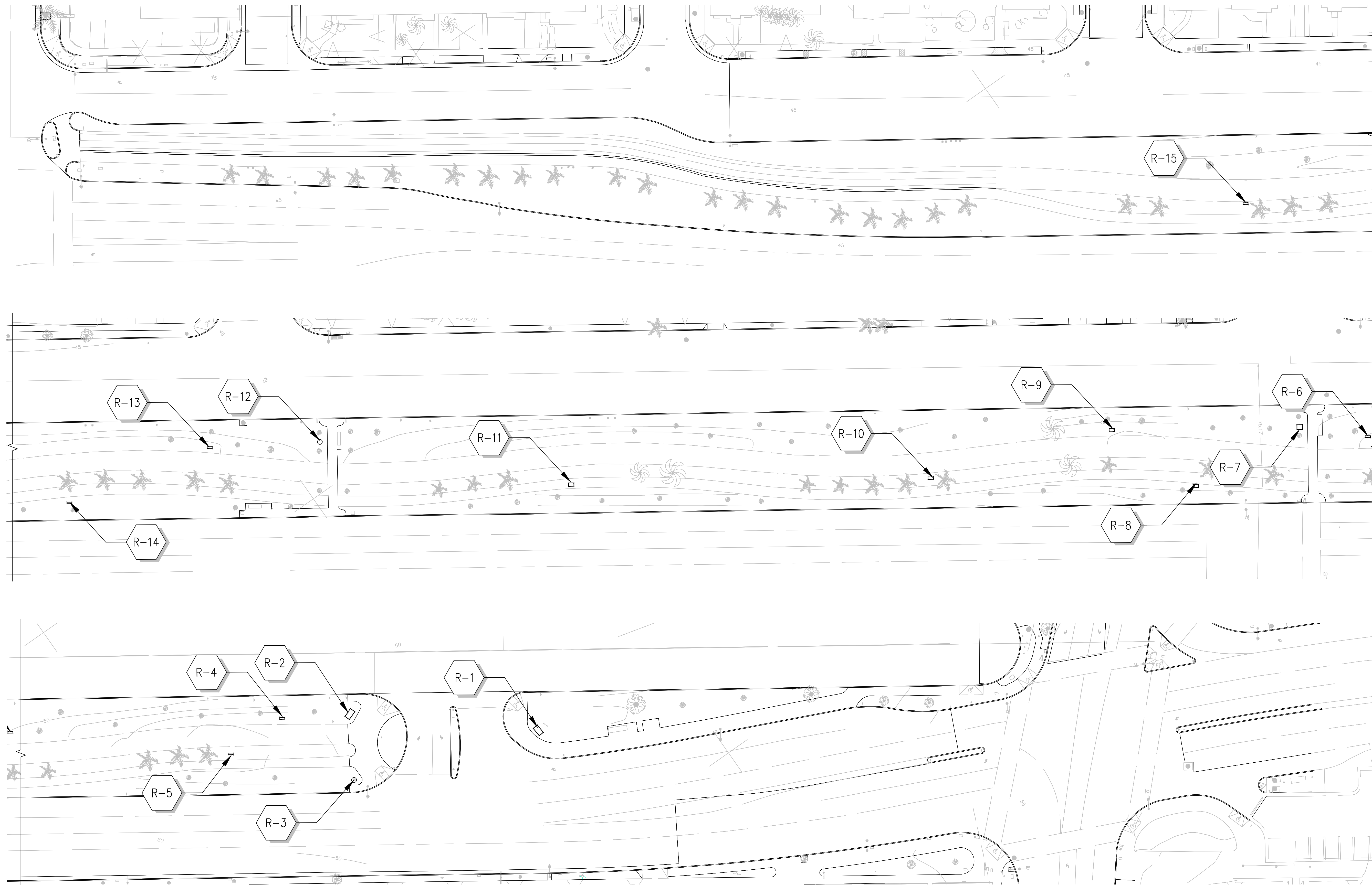
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	75% CONSTRUCTION DOCUMENTS			2018/11/02
	90% CONSTRUCTION DOCUMENTS			2019/05/23

EXISTING TREE & PROTECTION PLAN
 REVIEWED BY AND APPROVED BY
 SEE TITLE SHEET
 SHEET **L0.05**
 SHEET 48 OF 85 SHEETS

5049-212

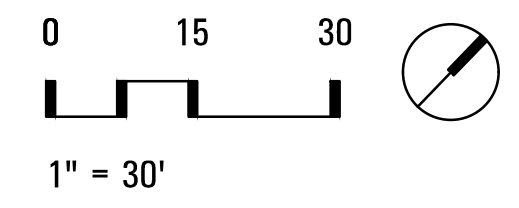
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EXISTING CULTURAL RELICS CATALOG

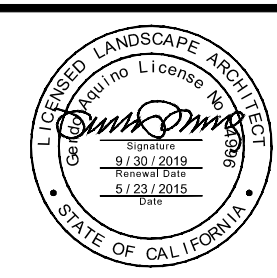
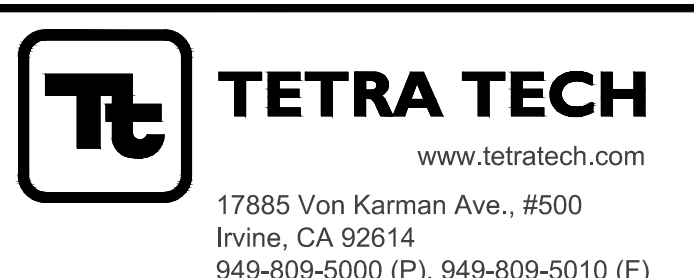
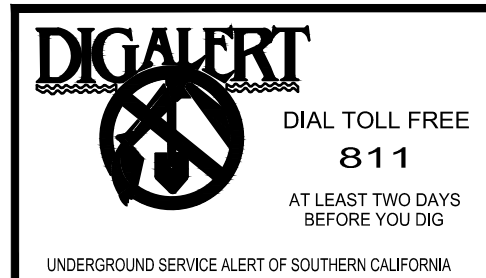
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R-2	FRIEZE AND PLAQUE	FRIEZE: 39" X 70"	
R-3	CIRCLE	36" DIAMETER 10" WIDTH	
R-4	FRIEZE	36 1/2" X 12 1/4"	
R-5	FRIEZE	36 1/2" X 12 1/4"	
R-6	FRIEZE	36 1/2" X 12 1/4"	
R-7	FRIEZE	40" X 35" X 21"	
R-8	FRIEZE	36 1/2" X 12 1/4"	
R-9	FRIEZE	39 1/2" X 24 1/4"	
R-10	FRIEZE	39 1/2" X 24 1/4"	
R-11	FRIEZE	39 1/2" X 24 1/4"	
R-12	CIRCLE	36" DIAMETER, 4" DEEP	
R-13	FRIEZE	36 1/2" X 12 1/4"	
R-14	FRIEZE	36 1/2" X 12 1/4"	
R-15	FRIEZE	36 1/2" X 12 1/4"	



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PLANS PREPARED UNDER THE SUPERVISION OF:
Jason Fusssel
JASON FUSSEL RCE-70879 EXP. 06/30/19 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

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EXISTING CULTURAL RELIC LOCATION
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SHEET 10.06
SHEET 49 OF 65 SHEETS

5049-212

Bar Measures 1 inch

GENERAL NOTES

1. VERIFICATION: VERIFY SITE INFORMATION, INCLUDING PROPERTY LINES, LIMITS OF WORK, EASEMENTS, BUILDINGS, ROADWAY CURB AND/OR CUTTERS, UTILITIES, DUCT BANKS, AND OTHER INFORMATION THAT MAY AFFECT THE SCOPE OF WORK INCLUDED ON THESE DRAWINGS. MORE SPECIFIC UTILITY INFORMATION IS INDICATED ON THE CIVIL ENGINEER DRAWINGS. CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR DIRECTION ON HOW TO PROCEED IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE DRAWINGS.
2. AREA OF DISTURBANCE: LIMIT USE OF PREMISES TO WORK IN AREAS AS INDICATED. DO NOT DISTURB PORTIONS OF THE SITE BEYOND AREAS IN WHICH WORK IS INDICATED. KEEP DRIVEWAYS AND ENTRANCES SERVING PREMISES CLEAR AND AVAILABLE TO THE OWNER AND EMERGENCY VEHICLES AT ALL TIMES. DO NOT USE THESE AREAS FOR PARKING OR STORAGE OF MATERIALS. SCHEDULE DELIVERIES TO MINIMIZE USE OF DRIVEWAYS AND ENTRANCES.
3. EXISTING UTILITIES: VERIFY THE LOCATION OF UTILITIES PRIOR TO COMMENCEMENT OF EXCAVATION THROUGH NOTIFICATION OF LOCAL AUTHORITIES AND UNDERGROUND SERVICE ALERT (USA 1-800-422-4133) AT LEAST 48-HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL CAREFULLY EXCAVATE, AS NECESSARY, TO CONFIRM UTILITY LOCATIONS, AND WHEN WORKING IN THE VICINITY OF UTILITIES, ANY DAMAGE TO UTILITIES THAT ARE TO BE PROTECTED IN PLACE OR DESIGNATED TO REMAIN WHICH IS CAUSED BY ANY PERSON, VEHICLE, EQUIPMENT, OR TOOL RELATED TO THE EXECUTION OR INSTALLATION OF WORK UNDER THE CONTRACT SHALL BE REPAIRED IMMEDIATELY AND AT NO ADDITIONAL EXPENSE TO THE OWNER. CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK.
4. BASE INFO: BASE INFORMATION INCLUDING THE LOCATION OF PROPERTY LINES, EASEMENTS, BUILDINGS, ROADS, AND CURBS HAVE BEEN PROVIDED BY THE CIVIL ENGINEER. BUILDING FOOTPRINTS HAVE BEEN PROVIDED BY ARCHITECT. FOR ADDITIONAL INFORMATION, REFER TO ARCHITECT AND CIVIL ENGINEER DRAWINGS.
5. CONFLICTS: WHERE PLANS AND/OR SPECIFICATIONS ARE FOUND TO BE IN CONFLICT, OR WHERE VARIOUS ITEMS OF WORK ARE SEEN TO BE IN CONFLICT, IMMEDIATELY NOTIFY OWNER AND/OR LANDSCAPE ARCHITECT FOR DIRECTION PRIOR TO PROCEEDING WITH WORK.
6. DESIGN CONSULTANT ADVISORY: ADVISE CONSTRUCTION AND OPERATIONS WITH THE PROJECT'S DESIGN CONSULTANTS FOR WORK INDICATED HEREIN. INFORM THE OWNER AND LANDSCAPE ARCHITECT ON THE PREFERRED CONSTRUCTION SCHEDULE PRIOR TO THE WORK BEING PERFORMED. ADJUST CONSTRUCTION SCHEDULE ACCORDINGLY BASED ON A MUTUALLY-AGREEABLE TIMETABLE. NOTIFY THE OWNER AND LANDSCAPE ARCHITECT IF CHANGE TO CONSTRUCTION SCHEDULE IS REQUIRED DUE TO DIFFERENCES IN ACTUAL CONSTRUCTION PROGRESS. INCLUDE THE PROJECT'S DESIGN CONSULTANTS AT PRE-INSTALLATION MEETINGS COVERING PORTIONS OF THE WORK THAT ARE RELATED. NOTIFY LANDSCAPE ARCHITECT IF CHANGES TO CONSTRUCTION SCHEDULE ARE REQUIRED DUE TO DIFFERENCES IN ACTUAL CONSTRUCTION PROGRESS.
7. WATERPROOFING: CARE SHALL BE TAKEN TO PRESERVE AND FULLY PROTECT THE INTEGRITY OF WATERPROOF MEMBRANE SYSTEMS WHERE THEY OCCUR ON SITE, AS APPLICABLE. CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE TO WATERPROOFING AT NO COST TO OWNER.
8. CLEAN UP: CONTRACTOR SHALL REMOVE LITTER AND DEBRIS FROM THE PROJECT SITE AS REQUIRED TO KEEP SITE IN AN ORDERLY FASHION. DUST CONTROL MEASURES SHALL BE EXERCISED.

LAYOUT NOTES

1. VERIFICATION: DIMENSIONS AND GRADES SHALL BE VERIFIED ON-SITE. VERIFY LOCATION OF BUILDINGS, WALLS, ROADS AND CURBS AFFECTING LANDSCAPE SCOPE OF WORK WITH ARCHITECTURAL AND CIVIL ENGINEER'S DRAWINGS. WHERE NOT SHOWN ON LANDSCAPE DRAWINGS, SEE CIVIL ENGINEER'S DRAWINGS FOR ROADWAY CENTERLINES, BUILDING SETBACKS AND BENCH MARKS. VERIFY LOCATION OF VAULTS, ELECTRICAL DUCT BANKS, MANHOLE, CONDUIT AND PIPING, DRAINAGE STRUCTURES AND OTHER UTILITIES WITH THE APPROPRIATE ENGINEERING DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING LANDSCAPE ARCHITECT ON ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK.
2. ORIENTATION OF SITE ELEMENTS: DIMENSIONS AS NOTED ARE TAKEN PERPENDICULAR TO FACE OF BUILDING OR WALL, BACK OF CURB, OR OTHER FIXED SITE IMPROVEMENT, AS APPLICABLE, UNLESS OTHERWISE NOTED. DIMENSIONS TO CENTERLINES ARE AS INDICATED. WHERE DIMENSIONS ARE INDICATED AS "EQUAL", REFERENCED ITEMS SHALL BE SPACED EQUALLY, AS MEASURED TO THEIR RESPECTIVE CENTERLINES. INSTALL INTERSECTING ELEMENTS AT 90-DEGREES TO EACH OTHER UNLESS OTHERWISE NOTED. ALL LINES OF PAVING AND/OR FENCING SHALL BE PARALLEL UNLESS OTHERWISE NOTED. MAINTAIN HORIZONTAL ALIGNMENT OF ADJACENT ELEMENTS AS NOTED ON THE DRAWINGS. DIMENSIONS TAKEN TO CENTERLINE OF BUILDING COLUMN SHALL MEAN THE FIRST ROW OF COLUMNS CLOSEST TO THE FACE OF THE BUILDING. SEE CIVIL SURVEY DRAWINGS FOR CORRESPONDING COLUMN LINES.
3. CONFLICTS: VERIFY LOCATIONS OF SITE IMPROVEMENTS INSTALLED UNDER OTHER SECTIONS. IF ANY PART OF THESE DRAWINGS CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT LANDSCAPE ARCHITECT FOR INSTRUCTION PRIOR TO COMMENCING WORK.
4. HIERARCHY: WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALE. WHERE INDICATED, NOTES AND DETAILS ON SPECIFIC DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
5. DISABILITY REQUIREMENTS: REFER TO CIVIL GRADING DRAWINGS FOR FINISHED PAVING SURFACES FOR AREAS RELATING TO THE A.D.A. (AMERICANS WITH DISABILITIES ACT) ALONG ACCESS AND EGRESS.
6. EXPANSION JOINTS: PROVIDE EXPANSION JOINTS IN ALL CASES WHERE CAST-IN-PLACE CONCRETE PAVING MEETS VERTICAL STRUCTURES SUCH AS WALLS, BUILDINGS, COLUMNS, CURBS, STEPS, RAMPS, METER BOXES, UTILITY ACCESS BOXES, ETC.. CONCRETE SLABS AND RAMP OR STEP FOOTINGS SHALL BE DOWELED INTO ABUTTING WALLS, FOUNDATIONS, AND FOOTINGS USING SLEEVED SMOOTH REINFORCEMENT BARS OF THE SAME SIZE AND SPACING UNLESS OTHERWISE NOTED.
7. MOCKUPS: CONTRACTOR SHALL PROVIDE FIELD-CONSTRUCTED MOCKUP SAMPLES FOR EACH PAVING TYPE AND WALL TYPE AS INDICATED ON THE DRAWINGS. WORK FOR PAVING AND WALL TYPES SHALL NOT COMMENCE UNTIL EACH RESPECTIVE MOCKUP HAS BEEN REVIEWED AND ACCEPTED BY LANDSCAPE ARCHITECT. ACCEPTED MOCKUPS SHALL BE LOCATED IN A PROTECTED AREA ON-SITE WHERE THEY WILL NOT BE DAMAGED OR DISTURBED UNTIL SUBSTANTIAL COMPLETION IS GRANTED. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR EACH RESPECTIVE FIELD-CONSTRUCTED MOCKUP SAMPLE.
8. IRRIGATION SLEEVING: CONTRACTOR SHALL REVIEW IRRIGATION PLANS FOR SLEEVE LOCATIONS TO BE SET UNDER PAVING AND OTHER LOCATIONS PRIOR TO CONSTRUCTION OF PAVING.
9. BEARING AND SCALE: REFERENCE TO NORTH REFERS TO TRUE NORTH. REFERENCE TO SCALE IS FOR FULL-SIZED DRAWINGS; DO NOT SCALE FROM REDUCED DRAWINGS.
10. ELEVATIONS: HOLD TOP ELEVATIONS OF WALLS, FENCES, ETC. LEVEL UNLESS OTHERWISE NOTED.
11. WORK AT EXISTING TREES: ALL WORK PERFORMED WITHIN THE DRIP-LINE OF TREES DESIGNATED "EXISTING TREES TO REMAIN" SHALL BE HAND LABOR.

LIGHTING NOTES

1. ALL LIGHTING SHOWN ON PLANS IS DIAGRAMMATIC. ELECTRICAL ENGINEER TO COORDINATE ALL LIGHTING FIXTURES, CONDUIT, PHOTOMETRICS AND WIRING NECESSARY TO CREATE CITY APPROVED LIGHTING PLANS.
2. ALL LIGHTING FIXTURES ARE TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. MECHANICALLY FASTEN ALL LIGHTING FIXTURES WHERE POSSIBLE.
3. CONFIRM ALL LIGHTING FIXTURE PLACEMENT WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

ABBREVIATIONS

ABBREVIATION	EXTENSION
ADJ.	ADJACENT (LAYOUT)
ALIGN	ALIGN
BS	BOTTOM OF STEP
BW	BOTTOM OF WALL
CIP or C.I.P.	CAST-IN-PLACE (CONCRETE)
CIVIL or C.E.	CIVIL ENGINEER
CL	CENTERLINE (LAYOUT)
CONC.	CONCRETE
DIA	DIAMETER (LAYOUT)
ELEV.	ELEVATION
EJ	EXPANSION JOINT (CONCRETE)
EO	EQUAL (LAYOUT)
FG or F.G.	FINISHED GRADE (TOP SOIL)
FS or F.S.	FINISHED SURFACE (HARD SURFACES)
HP	HIGH POINT (GRADIENT)
LA or L.A.	LANDSCAPE ARCHITECT
LOW or L.O.W.	LIMIT OF WORK
LP	LOW POINT (GRADIENT)
MAX.	MAXIMUM
MIN.	MINIMUM
NAP	NOT A PART
NTS or N.T.S.	NOT TO SCALE
OC or O.C.	ON-CENTER (LAYOUT)
OD or O.D.	OUTSIDE DIAMETER (LAYOUT)
PA or P.A.	PLANTING AREA
PERF.	PERFORATED
POB or P.O.B.	POINT OF BEGINNING (LAYOUT)
PL	PROPERTY LINE
R	RADIUS (LAYOUT)
REF.	REFERENCE OR REFER TO
REINF.	REINFORCEMENT
S.E.	STRUCTURAL ENGINEER
SPECS	CONTRACT SPECIFICATIONS
S/S	STAINLESS STEEL
TBD	TO BE DETERMINED
TC	TOP OF CURB (ELEVATION)
TG	TOP OF GRATE (ELEVATION)
TS	TOP OF STEP (ELEVATION)
TOSS	TOP OF SURFACE SLAB
TW	TOP OF WALL (ELEVATION)
TYP	TYPICAL
W	WITH

LAYOUT LEGEND

SYMBOL	ITEM
---	LIMIT OF WORK (L.O.W.)
---	PROPERTY LINE
---	VEHICLE ACCESS
●	TREE TRUNK
○	EXISTING TREE. RETAIN AND PROTECT.
PA	PLANTING AREA
↩	ALIGN
⊕	EXISTING HYDRANT
⊕	TRAFFIC SIGNAL, REFER CIVIL
⊕	TRAFFIC SIGNAL BOX, REFER CIVIL
⊕	EXISTING UTILITY TO REMAIN, REFER CIVIL

LAYOUT LEGEND

SYMBOL	ITEM	MANUFACTURER	FINISH	REMARKS	
⊕	METRO BOLLARD, 6" FLAT TOP, 30" TALL	METRO	POWDER COATED - BRONZE	REFER ELECTRICAL ENGINEER FOR MORE INFORMATION	02 L6.07
⊕	TRADITIONAL SERIES DELPHI POLE	AMERON	PER MANUFACTURER SPEC	REFER ELECTRICAL ENGINEER FOR MORE INFORMATION	03 L6.07
⊕	CHASE TRASH RECEPTACLE	LANDSCAPE FORMS	POWDER COATED -STORMCLOUD STANDARD COLOR	SIDE OPEN	01 L6.07
⊕	CUSTOM MANHOLE COVER	SPRUCE AND GANDER	PER CITY SPEC	CUSTOM MANHOLE ART PIECE TO BE COORDINATED WITH CITY	- -
W-1	WALL TYPE 1	C.I.P. CONCRETE DECORATIVE SEAT WALL	DARK GREY SAND BLAST	TRADEMARK CONCRETE OR SIMILAR CONCRETE CONTRACTOR WWW.TRADEMARKCONCRETE.COM	01 L6.04
W-2	WALL TYPE 2	C.I.P. CONCRETE DECORATIVE RETAINING WALL	DARK GREY SAND BLAST	TRADEMARK CONCRETE OR SIMILAR CONCRETE CONTRACTOR WWW.TRADEMARKCONCRETE.COM	01 L6.06

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LANDSCAPE ARCHITECT
Dunk
JASON FUSSEL RCE-70879 EXP. 06/30/19 DATE

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PROJECT NUMBER # PZ-460

DRAWING NO. NO. REVISION BY APPR. DATE

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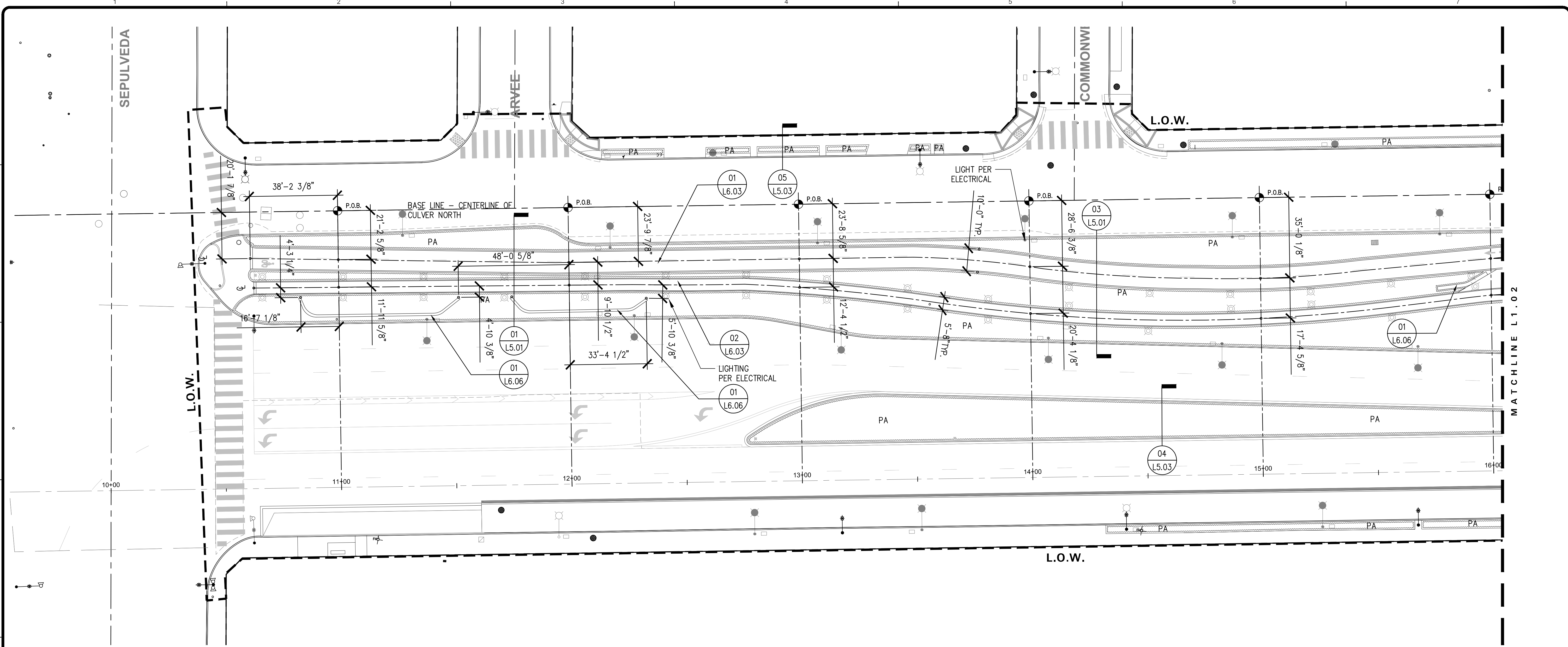
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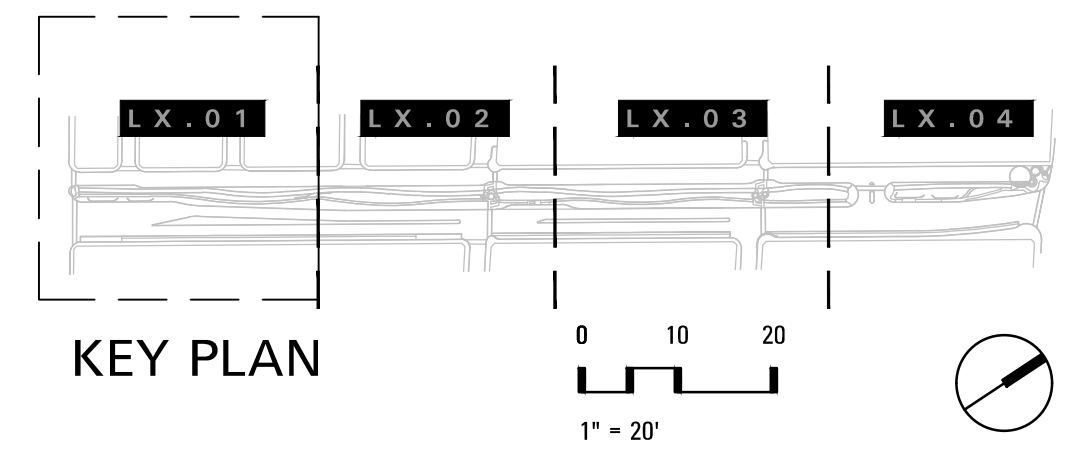
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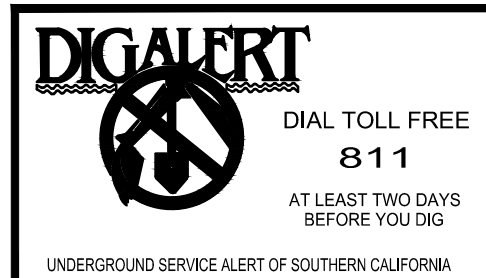


NOTES:
SEE CIVIL FOR COMPLETE CURB, PATH AND ROAD DIMENSIONS

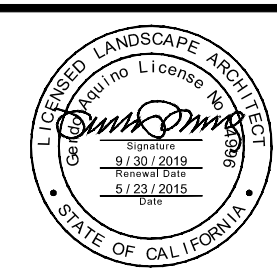


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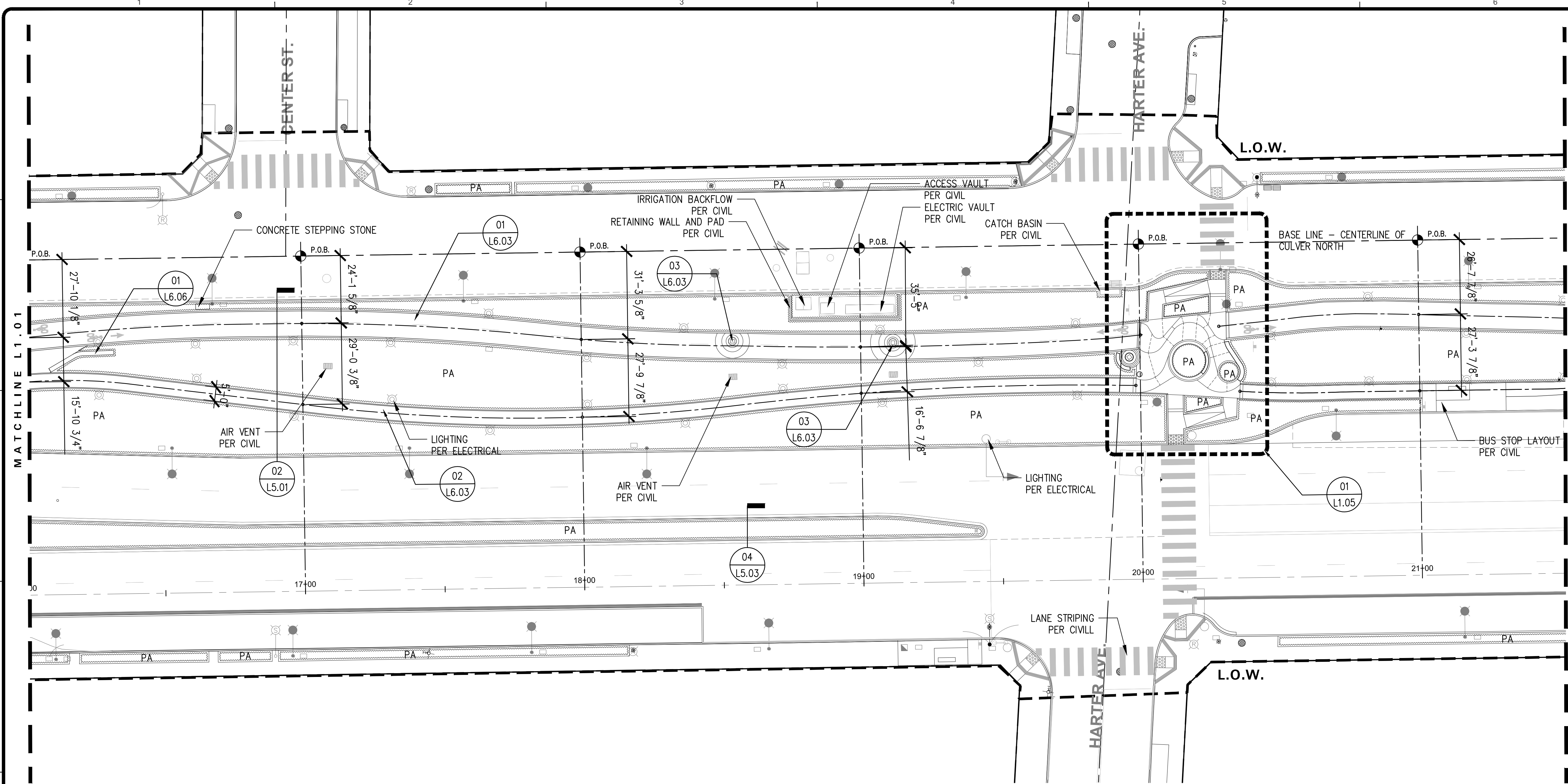
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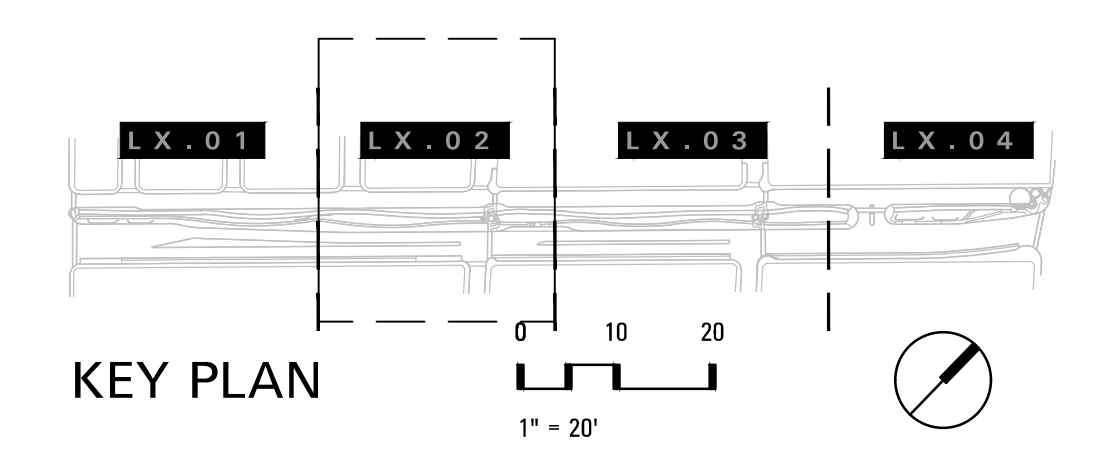
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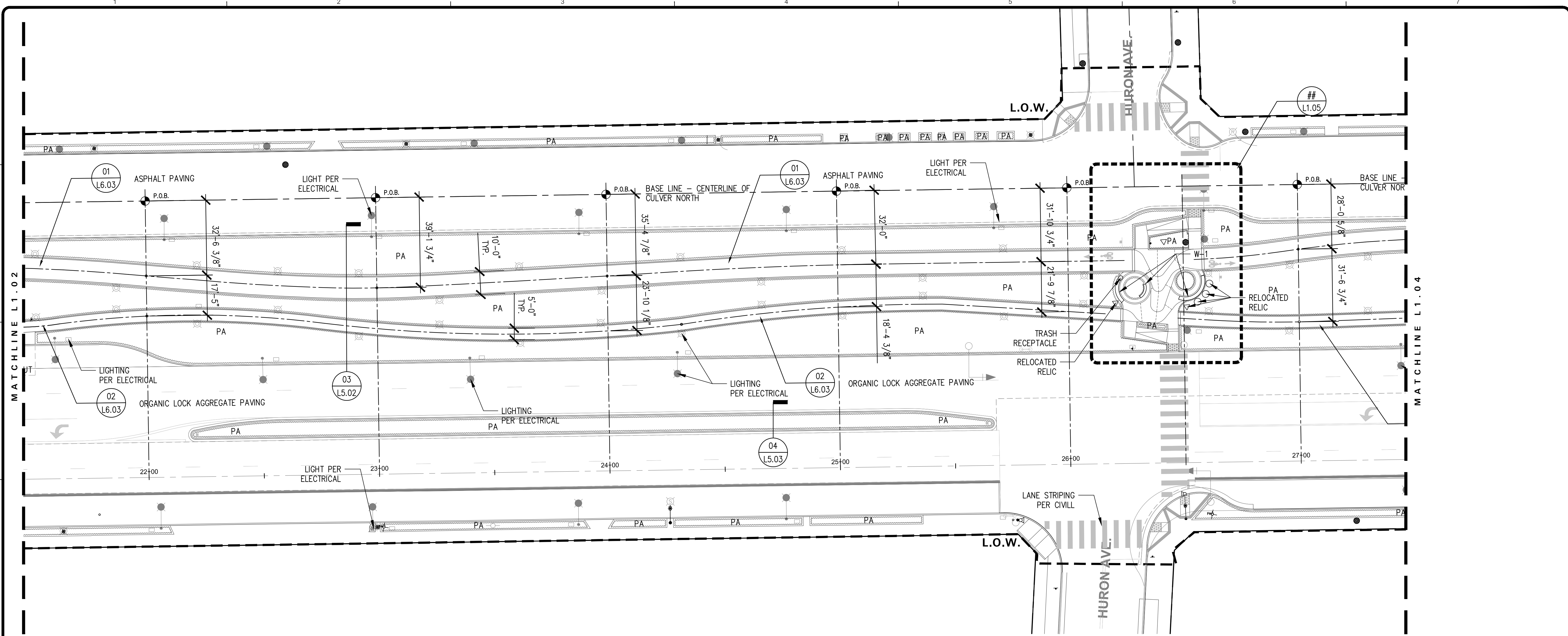
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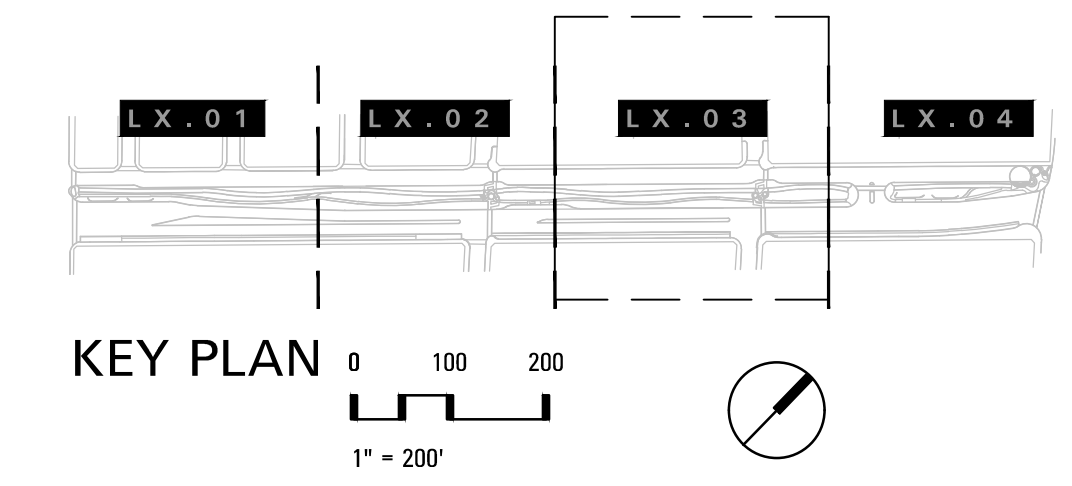
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NOTES:
 DIMENSIONS ARE FOR COORDINATION AND REFERENCE.
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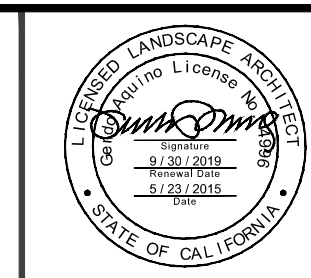


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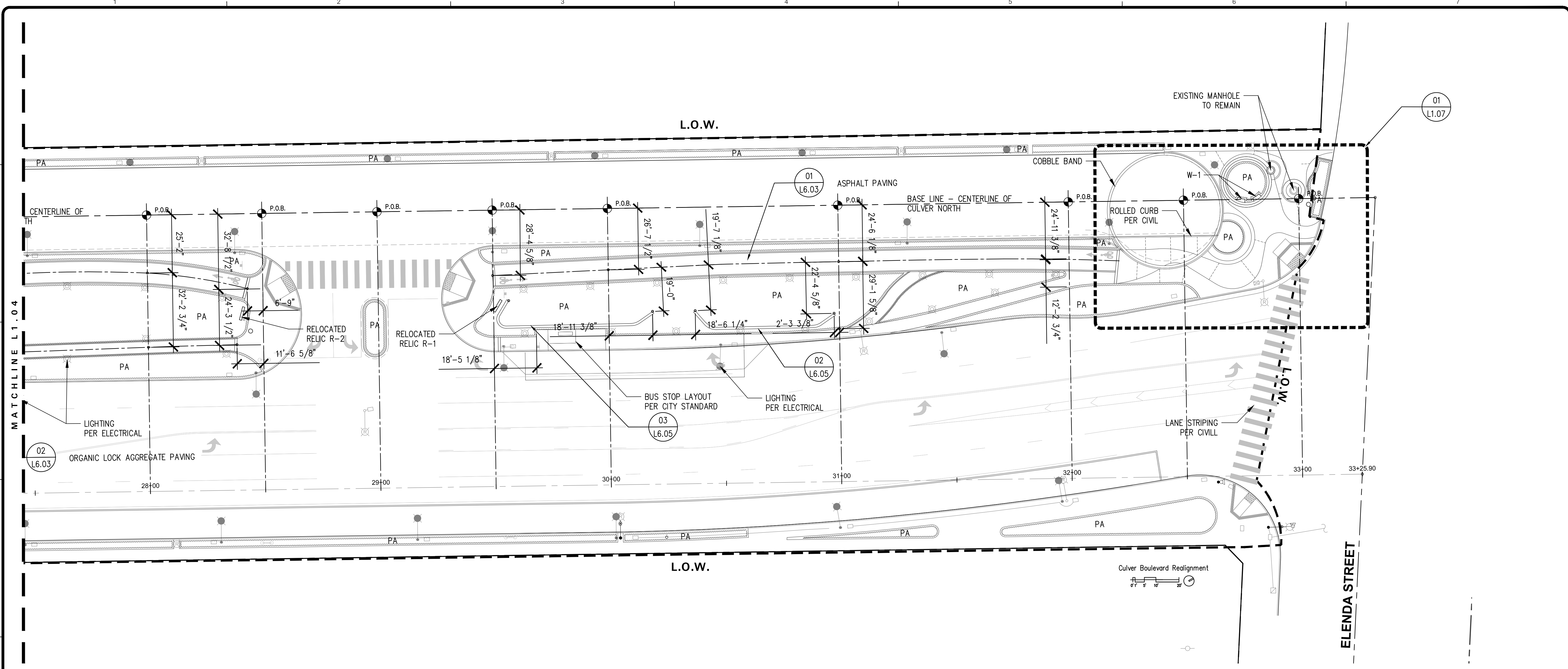
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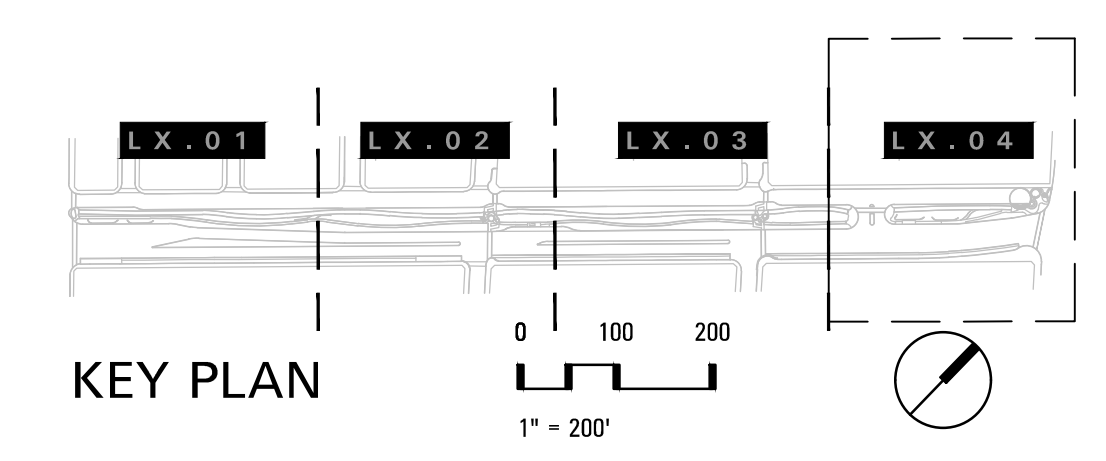
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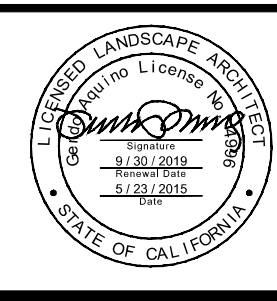
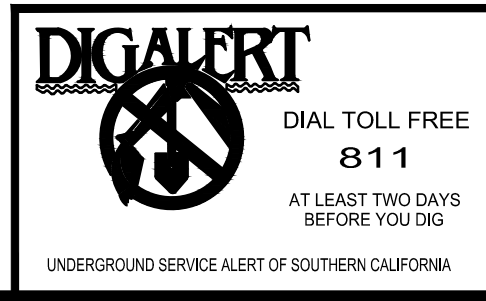


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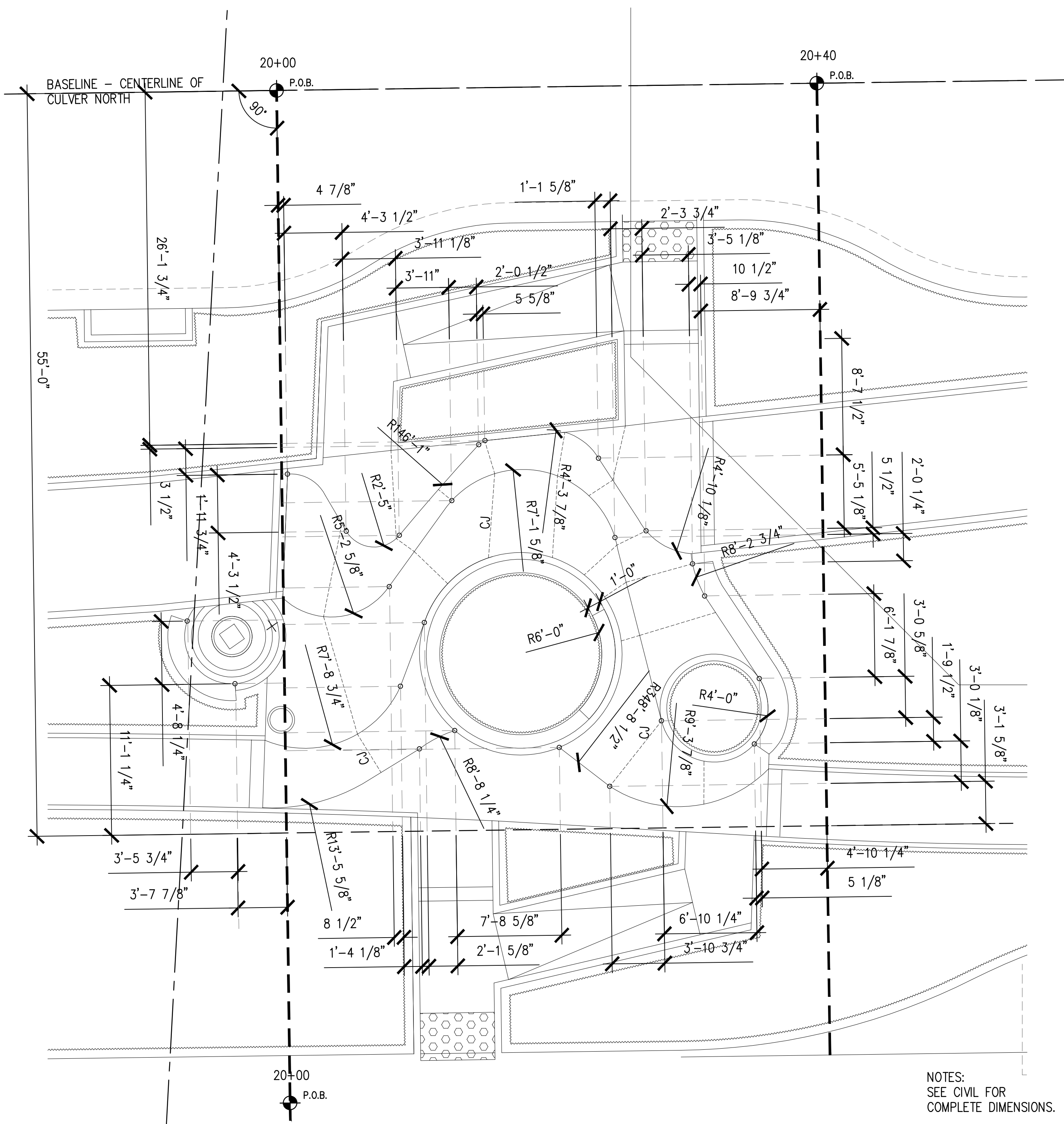
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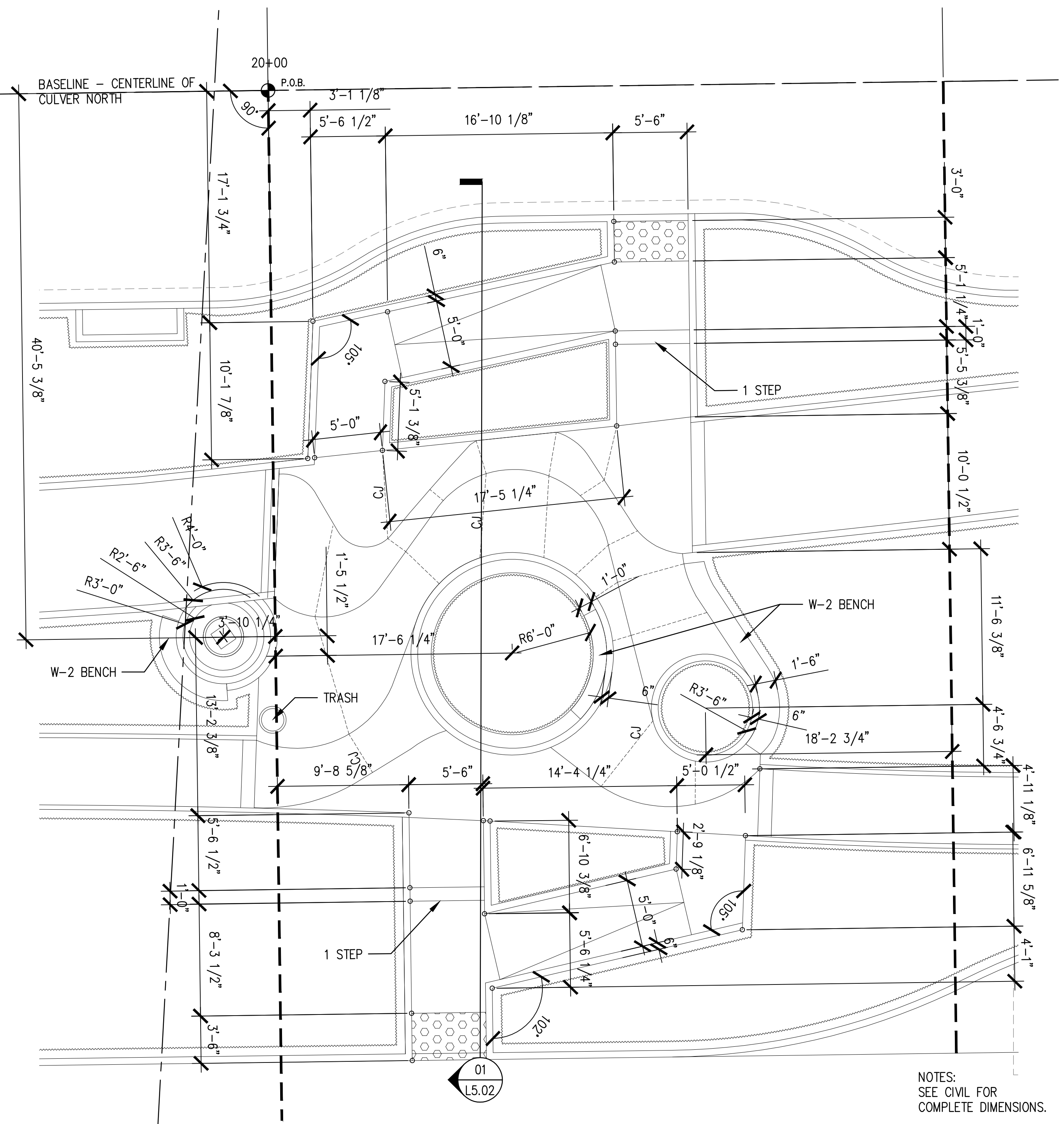
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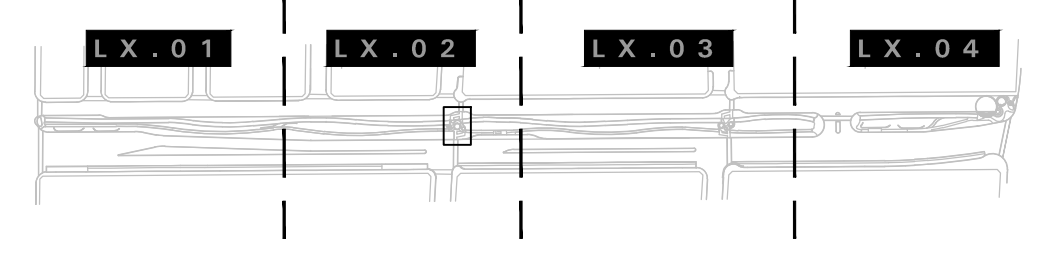
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02 CULVER BOULEVARD AT HARTER PAVING LAYOUT PLAN
3/16" = 1'-0"



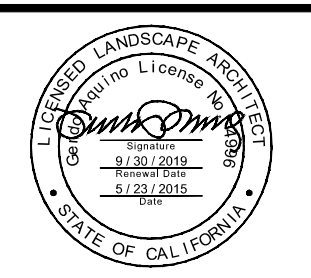
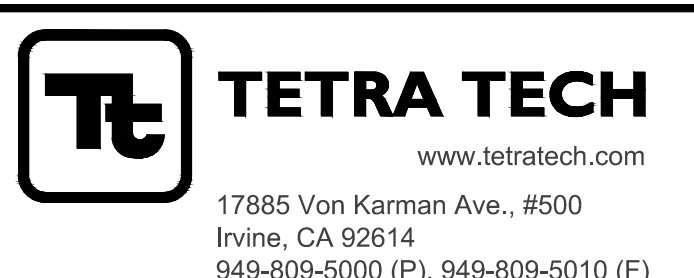
01 CULVER BOULEVARD AT HARTER ENLARGEMENT
3/16" = 1'-0"



KEY PLAN

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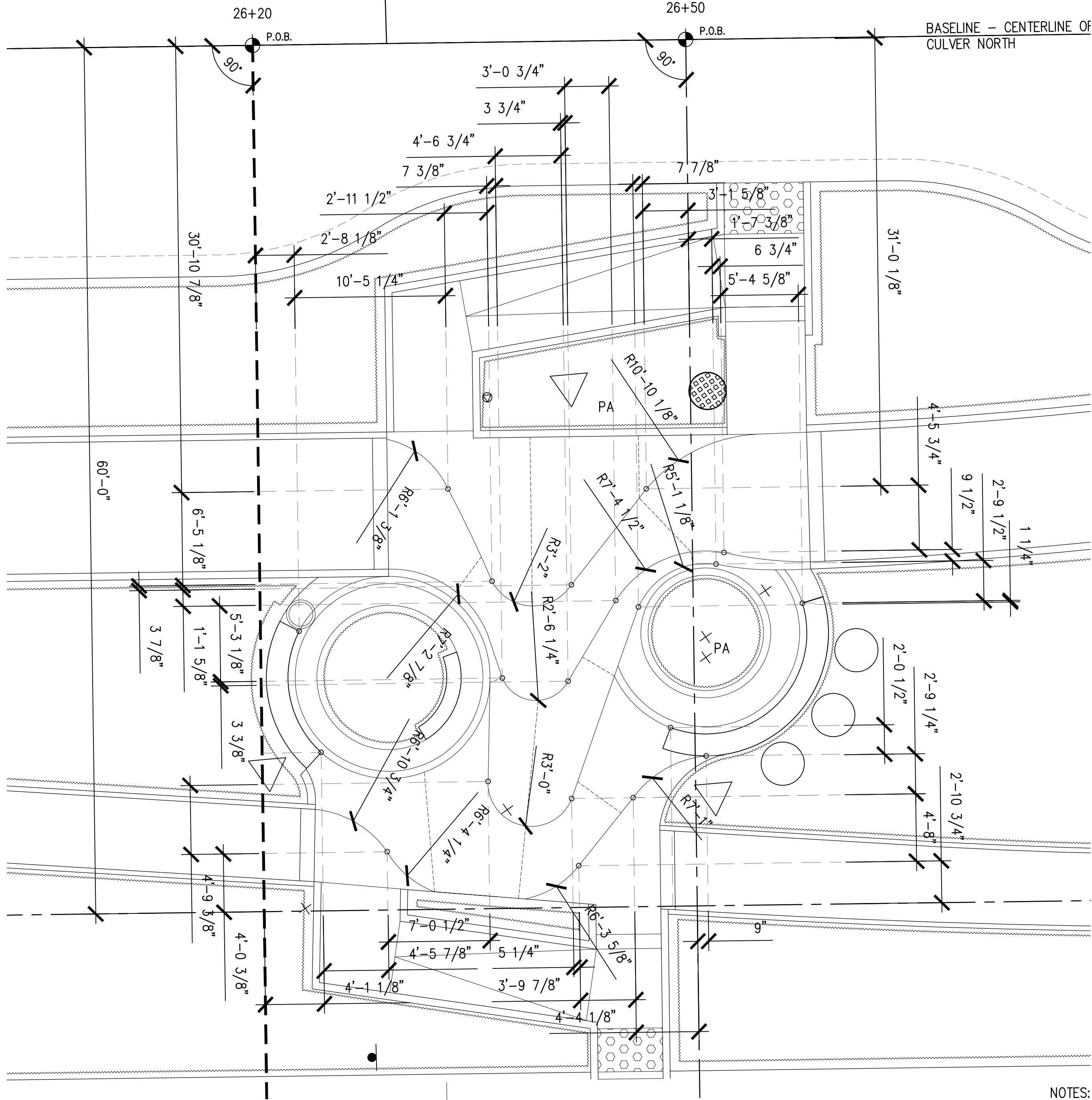
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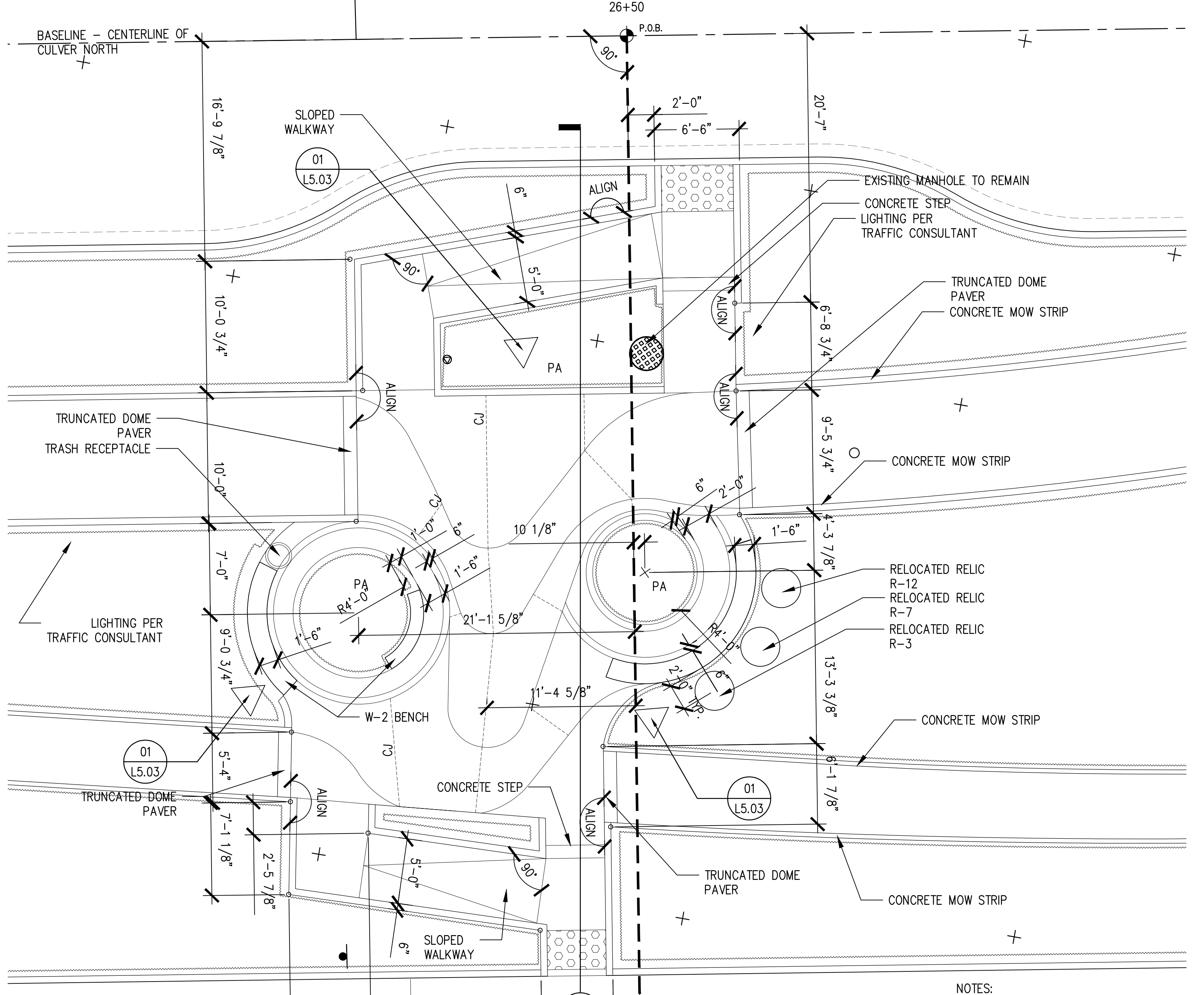
LAYOUT ENLARGEMENT PLAN
REVIEWED BY AND APPROVED BY
SEE TITLE SHEET
SHEET L1.05
SHEET 55 OF 65 SHEETS

5049-212

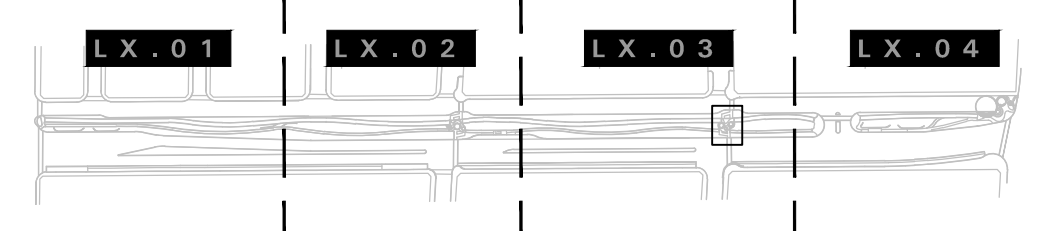
Bar Measures 1 inch



02 CULVER BOULEVARD AT HURON PAVING LAYOUT ENLARGEMENT
3/16" = 1'-0"



01 CULVER BOULEVARD AT HURON ENLARGEMENT
3/16" = 1'-0"

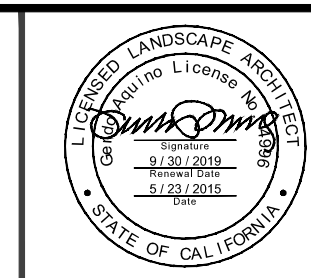
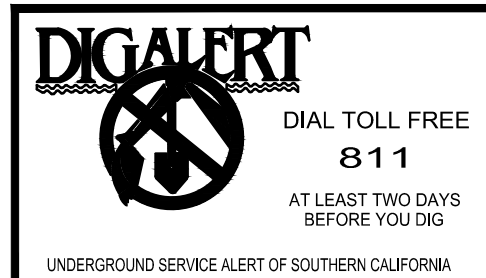


KEY PLAN



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(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

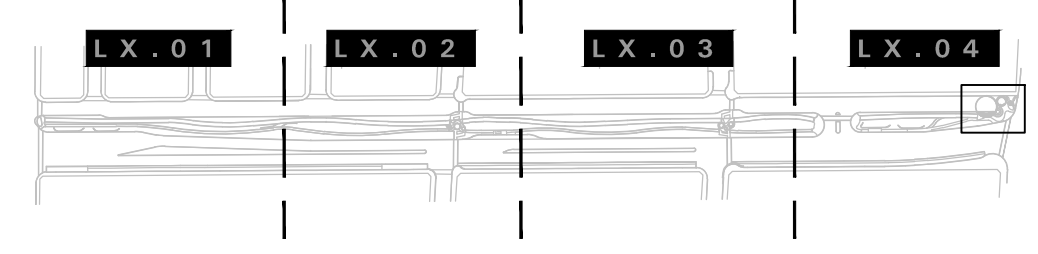
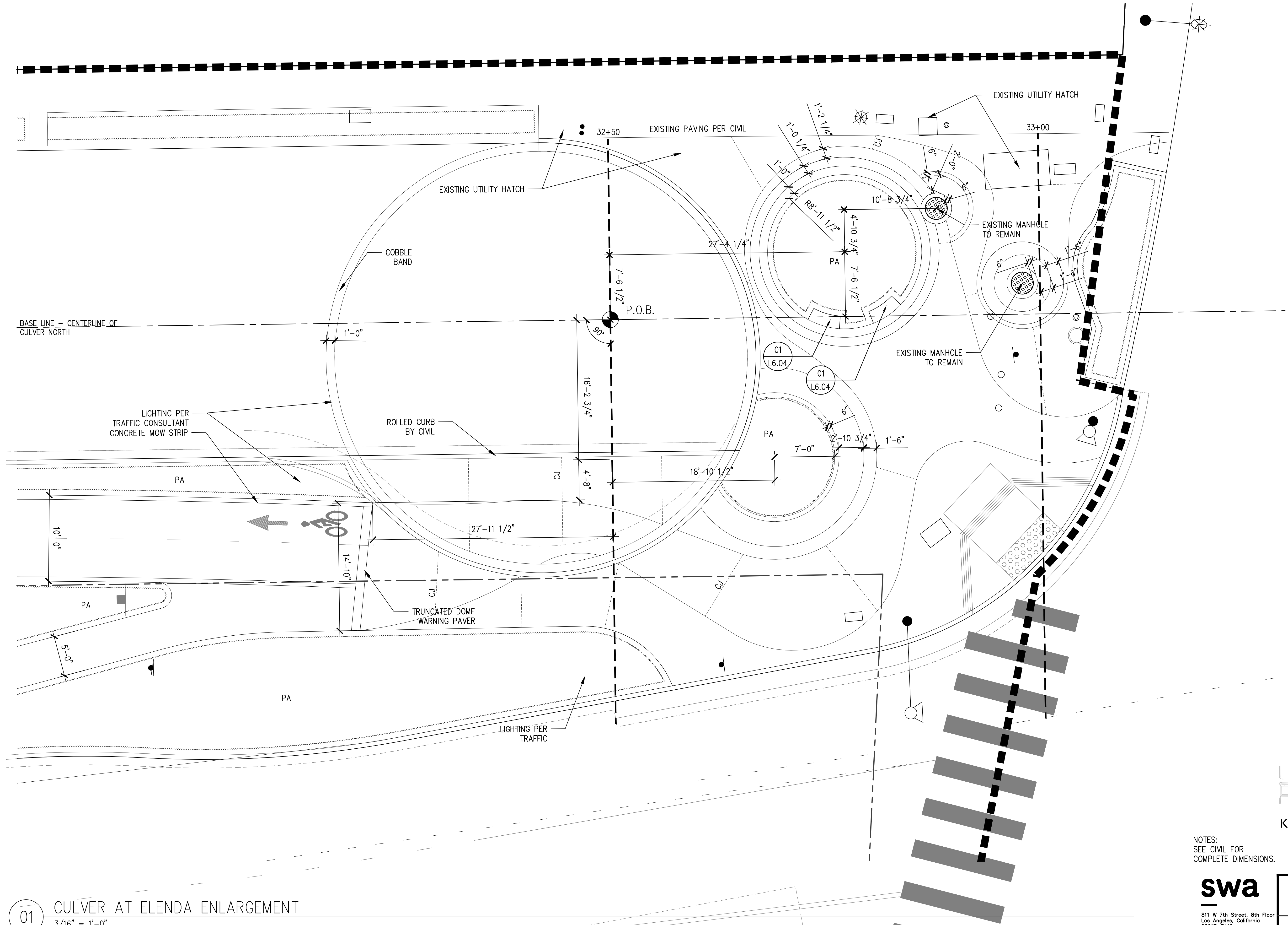


PLANS PREPARED UNDER THE SUPERVISION OF:
Jason Fusssel
JASON FUSSEL RCE-70879 EXP. 06/30/19 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

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LAYOUT ENLARGEMENT PLAN		REVIEWED BY AND APPROVED BY SEE TITLE SHEET	SHEET L1.06 SHEET 56 OF 65 SHEETS

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NOTES:
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01 CULVER AT ELENDA ENLARGEMENT
3/16" = 1'-0"

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STATE OF CALIFORNIA

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LAYOUT ENLARGEMENT PLAN	
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5049-212




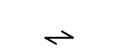



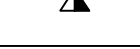
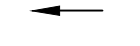
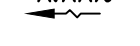

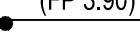
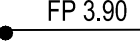


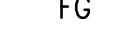
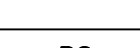
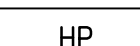

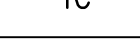
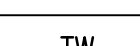


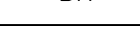
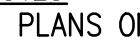

Bar Measures 1 inch

6/6/2019 2:49:19 PM - P:\TETTECH\801 CULVER WIDENING PROJECT\4 DRAWINGS\GRAPHICS\AUTOCAD\SHETS\12.00 GRADING LEGEND AND NOTES.DWG - ROMAN CHIU

GRADING NOTES

- FOR EXISTING TOPOGRAPHY INCLUDING GRADES, UTILITIES, PROPERTY LINES, LIMITS OF ROADWAYS, CURBS AND GUTTERS, EXISTING TREES, ETC., REFER TO CIVIL ENGINEERING DRAWINGS.
- FINISHED GRADES SHALL PROVIDE FOR NATURAL RUNOFF OF WATER WITHOUT LOW SPOTS OR POCKETS. SET FLOW LINES ACCURATELY AND PROVIDE A MINIMUM 2% AND A MAXIMUM 50% GRADIENT UNLESS OTHERWISE NOTED.
- REFER TO CIVIL ENGINEERING DRAWINGS FOR GRADING AND DRAINAGE

GRADING LEGEND

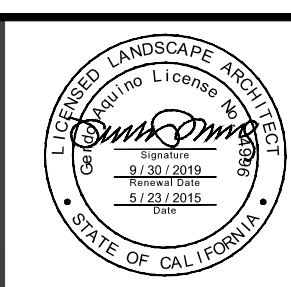
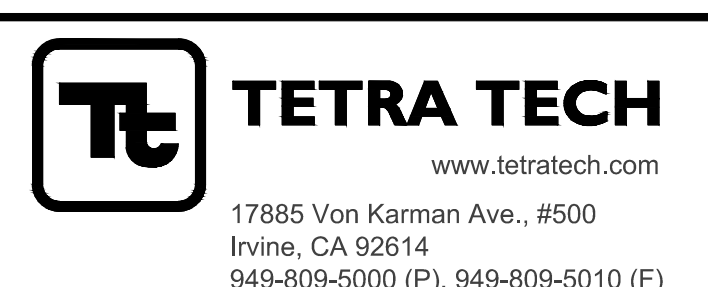
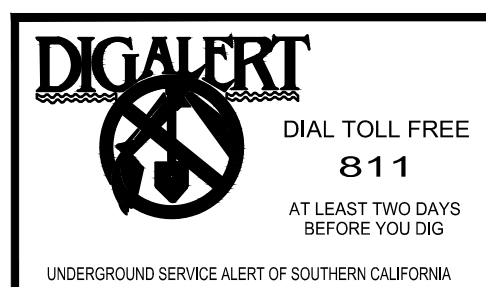
	STEEL SLOT DRAIN
	STEEL SLOT DRAIN
	GRADE BREAK
	FLUSH BETWEEN SURFACES
	ALIGN EDGES
	PAVING AREA DRAIN -NDS DECORATIVE DRAIN
	PLANTING AREA DRAIN - NDS DECORATIVE DRAIN
	FOUNTAIN AREA DRAIN
	SLOPE ON PAVING
	SLOPE IN PLANTING
	SLOPE UNDER SURFACE
	(FP 3.90) EXISTING SPOT GRADE
	FP 3.90 PROPOSED SPOT GRADE
	FFE FINISH FLOOR ELEVATION
	FS FINISH SURFACE
	FG FINISH GRADE
	TS TOP OF STEP
	BS BOTTOM OF STEP
	HP HIGH POINT
	LP LOW POINT
	TC TOP OF CURB
	BC BOTTOM OF CURB
	TW TOP OF WALL
	BW BOTTOM OF WALL
	TR TOP OF RAMP
	BR BOTTOM OF RAMP


NOTES
 - PLANS ONLY DENOTE TOPS OF WALLS. FOR FURTHER CLARIFICATION SEE WALL DETAILS
 - PROVIDED FOR DESIGN INTENT INFORMATION ONLY. REFER TO PLANS DETAILS FOR CONSTRUCTION INFORMATION

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 CULVER BOULEVARD REALIGNMENT PROJECT
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PLANS PREPARED UNDER THE SUPERVISION OF:

 JASON FUSSEL RCE- 70879 EXP. 06/30/19 DATE
 PROJECT NUMBER # PZ-460
 DRAWING NO.

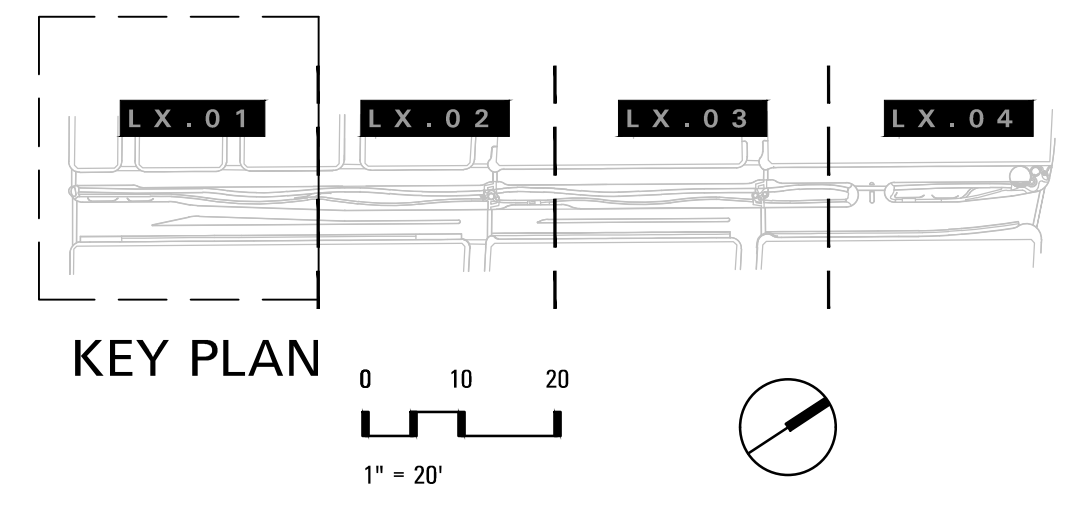
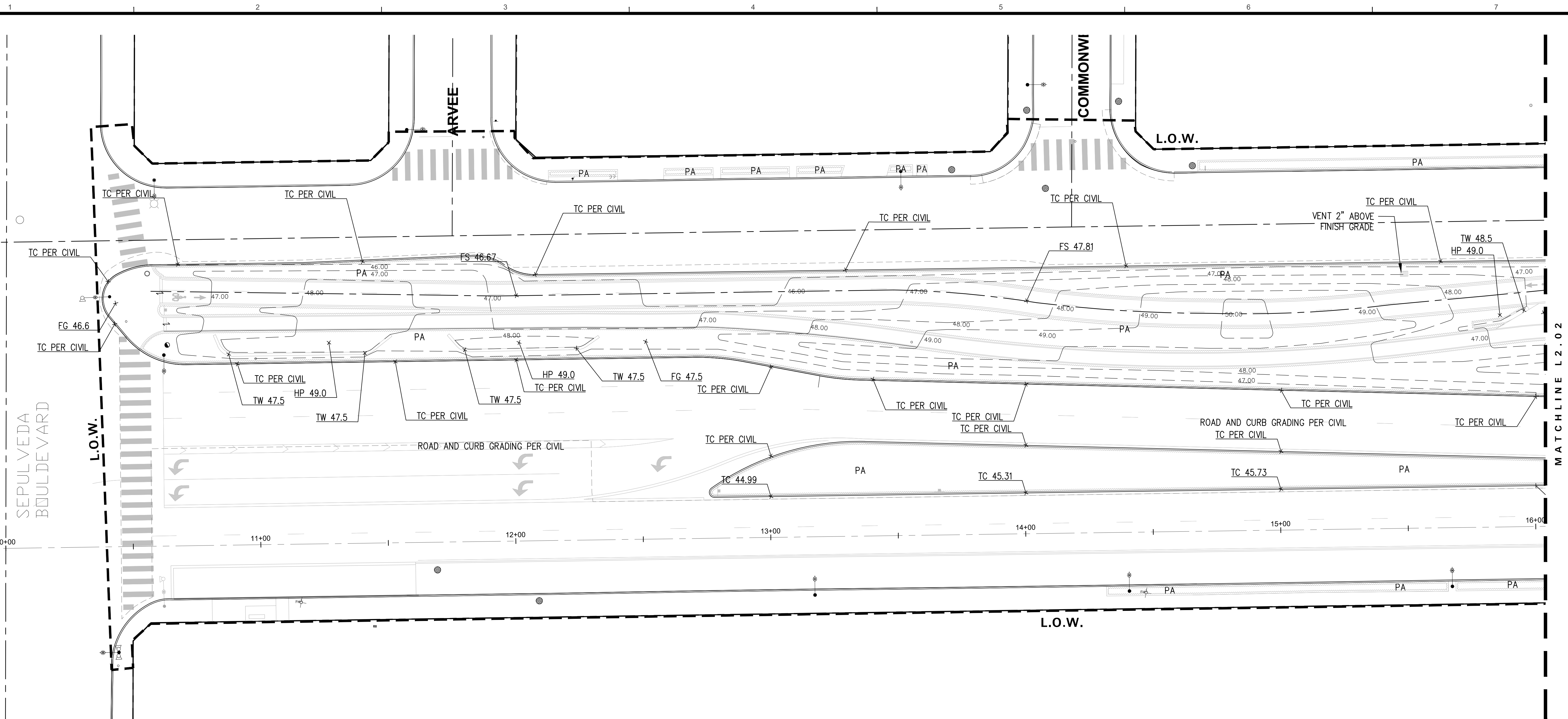
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 SHEET L2.00 OF 65 SHEETS

Bar Measures 1 inch

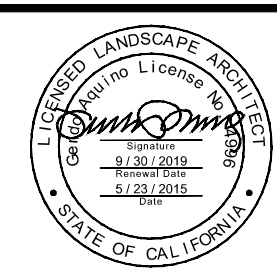
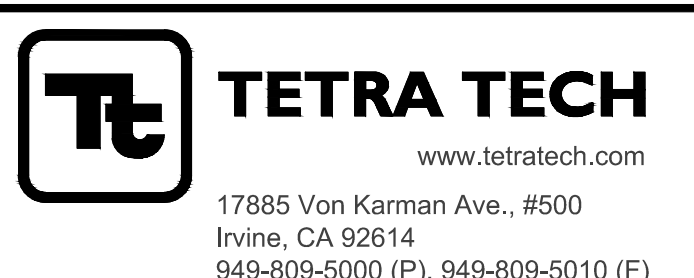
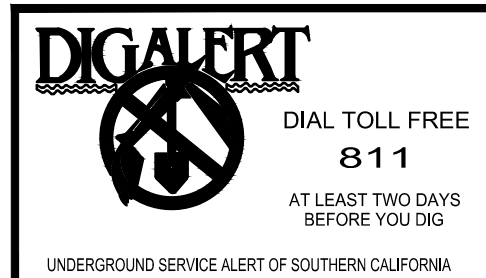
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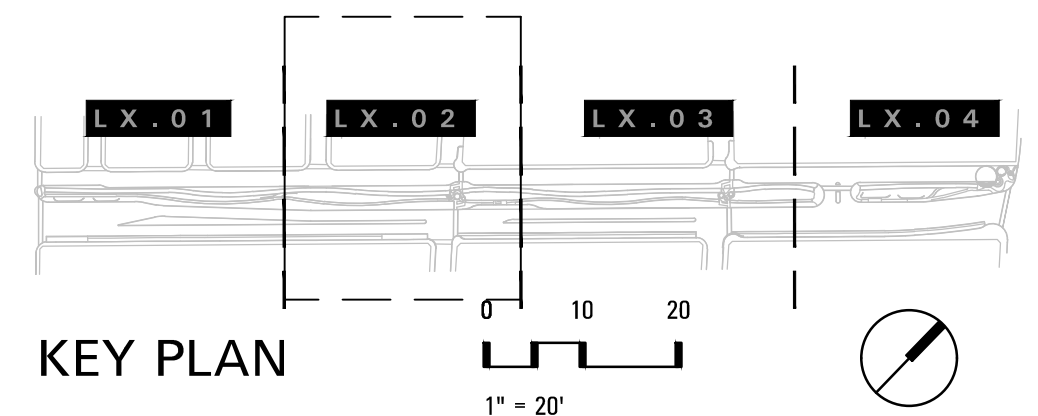
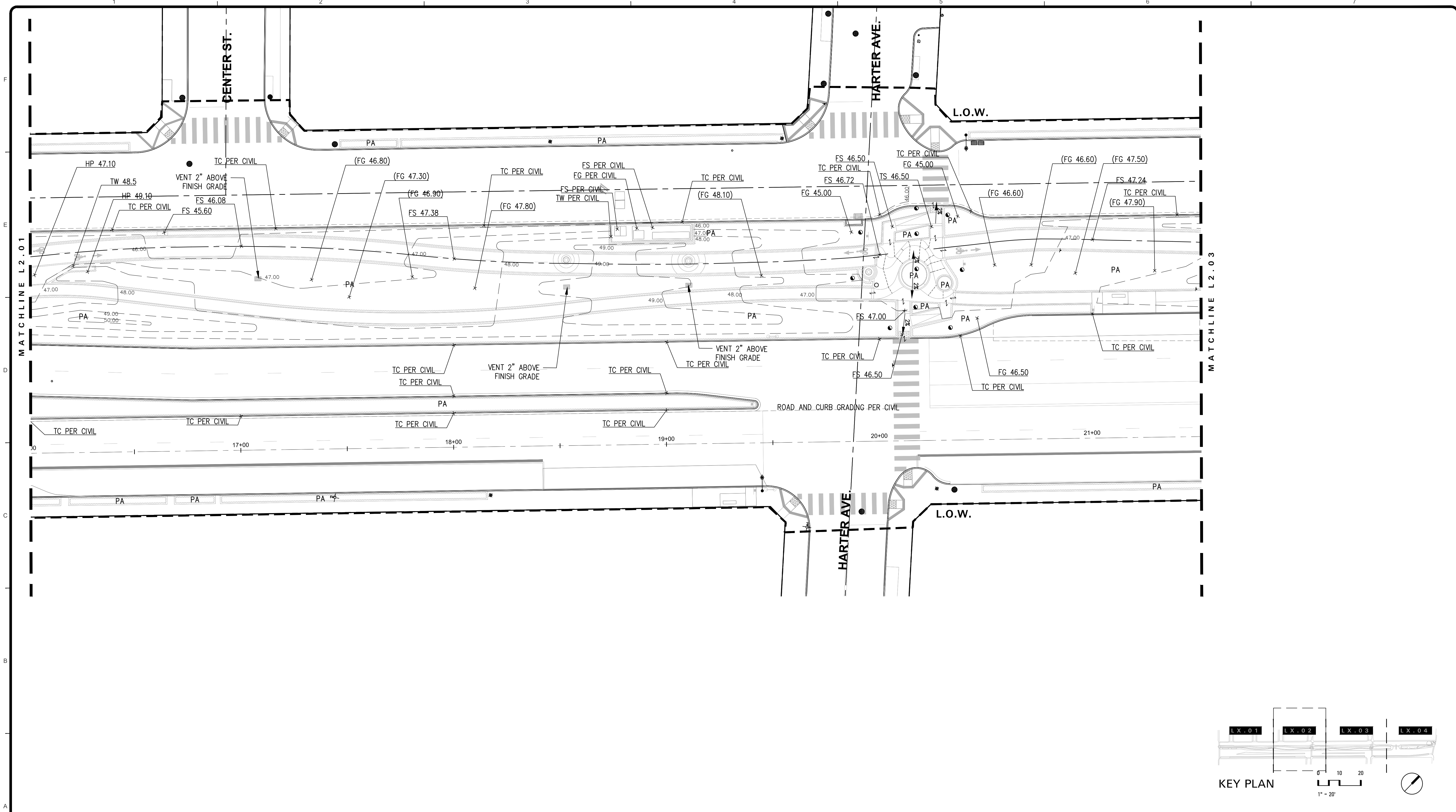
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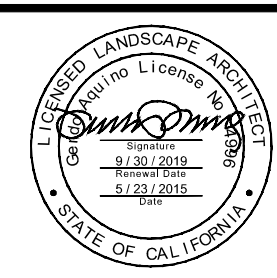
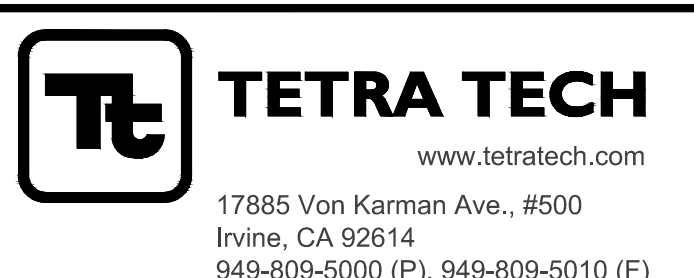
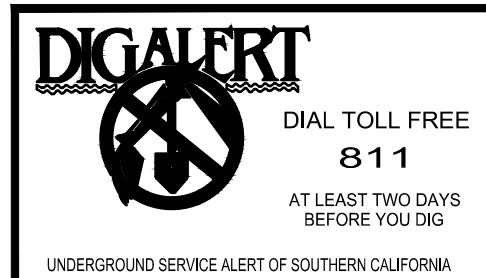
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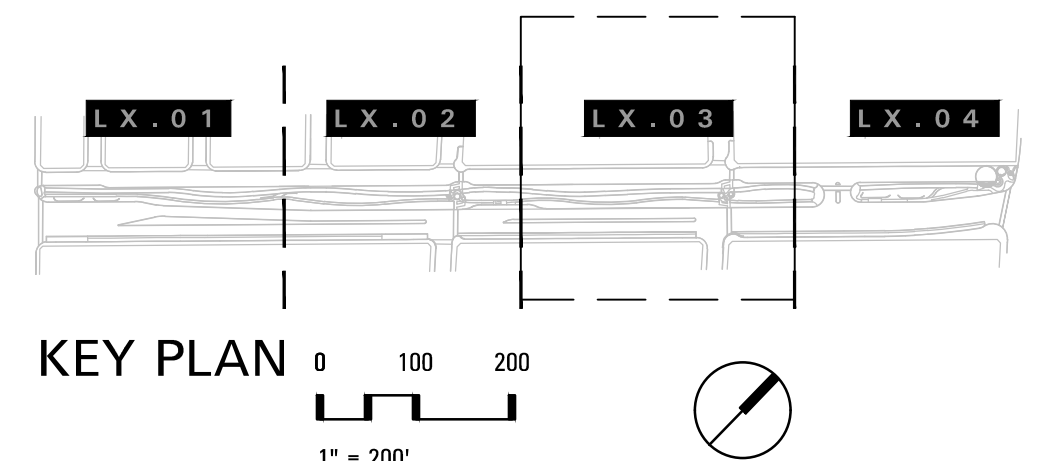
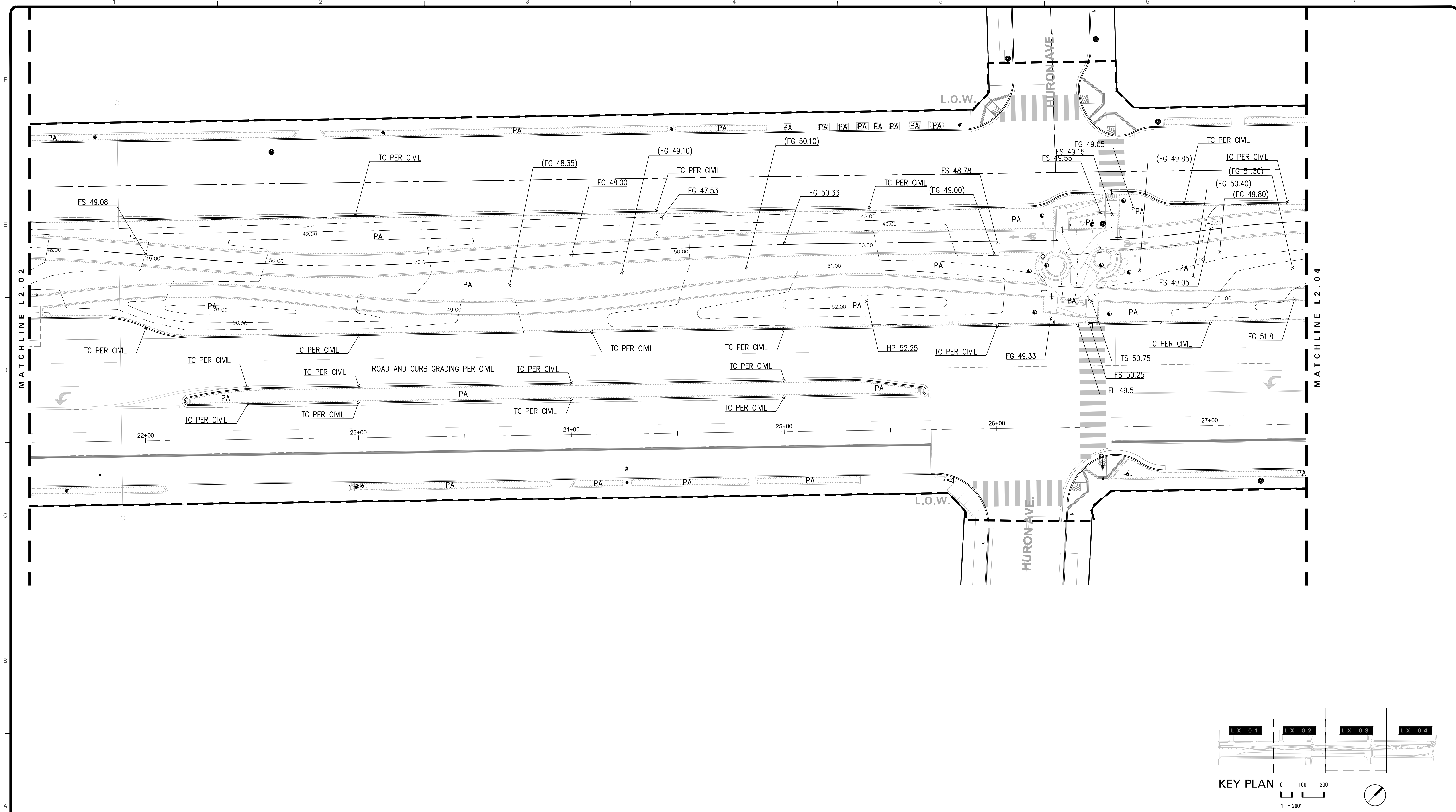
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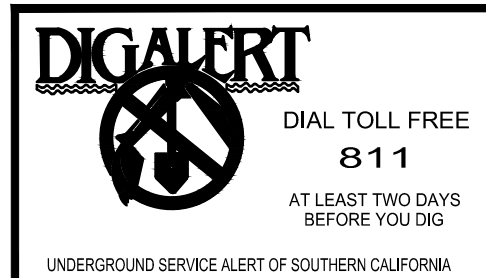
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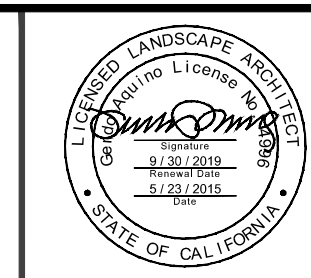


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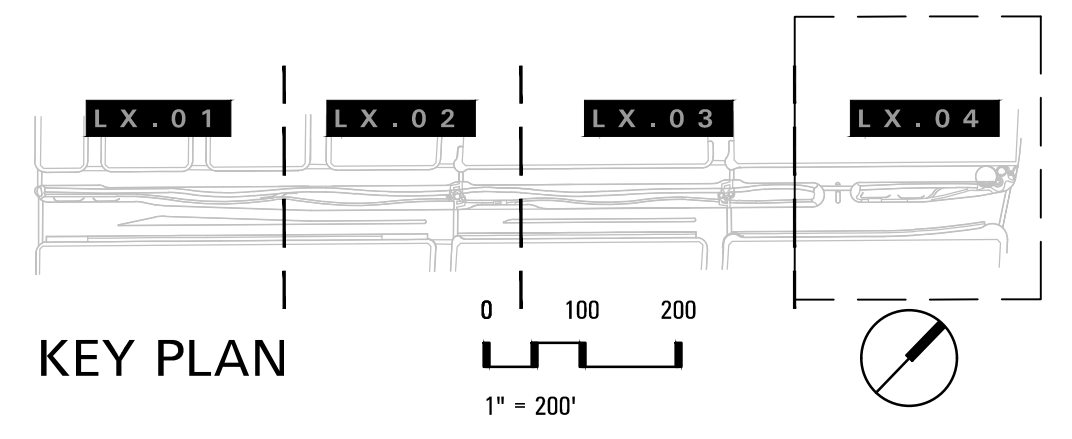
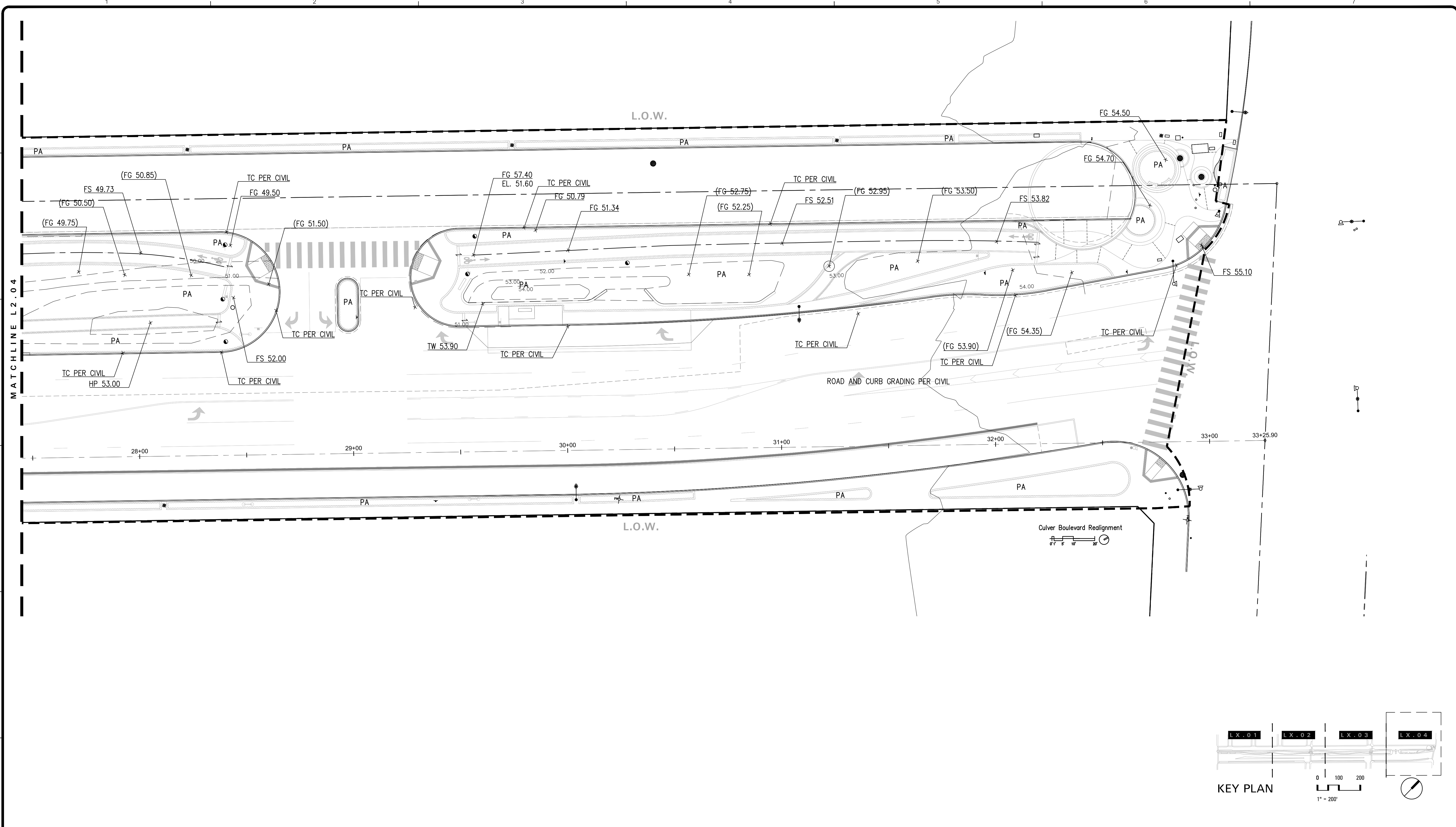
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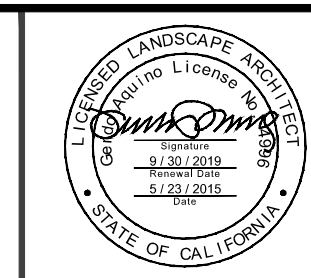
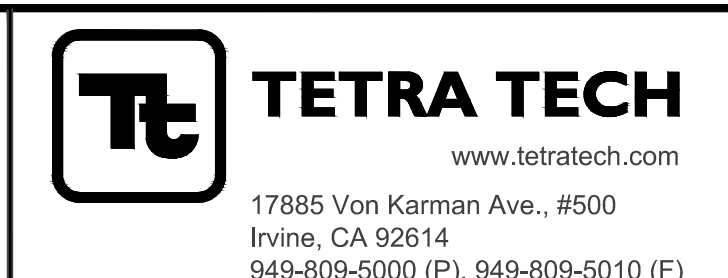
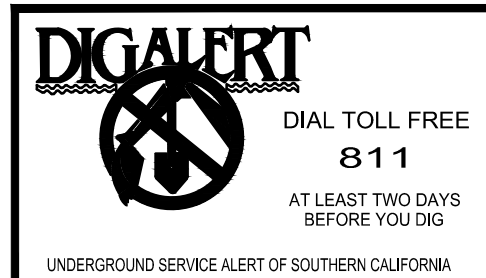
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GRADING AND DRAINAGE PLAN
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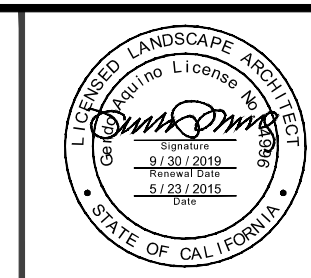
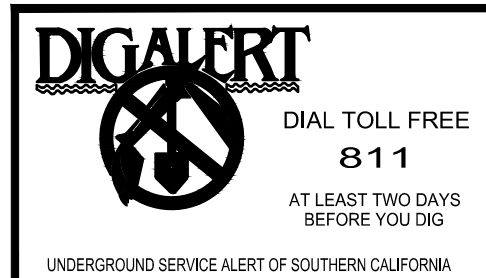
Bar Measures 1 inch

PAVING LEGEND									
SYMBOL	KEY	DESCRIPTION	MATERIAL	SUPPLIER	SIZE	COLOR	FINISH	REMARK	DETAIL
	P-1	CONCRETE P.I.P.	CONCRETE P.I.P.	TRADEMARK CONCRETE	-	A B	A. TOP CAST 15 B. TOP CAST 25		06 L6.02
	P-2	STANDARD CONCRETE	CONCRETE P.I.P.	TRADEMARK CONCRETE	-	GREY	TOP CAST 15		06 L6.02
	P-3	PEDESTRIAN PATH	ORGANIC LOCK DECOMPOSED GRANITE	GAIL MATERIALS	-	GOLD		INSTALLED PER SPEC -SAMPLE TO BE PROVIDED FOR APPROVAL BY LANDSCAPE ARCHITECT	02 L6.03
	P-4	BIKE PATH	ASPHALT	PER CIVIL	-	STANDARD	STANDARD		01 L6.03
	P-5	STEPS	COLOR CONCRETE PAVING, SAW CUT JOINTS	TRADEMARK CONCRETE	PER DETAIL	GREY	TOP CAST 15		05 L6.03
	P-6	TRUNCATED DOME PAVER	PER CIVIL	PER CIVIL	PER CIVIL	PER CIVIL	PER CIVIL	PER CIVIL	
	P-7	VEHICULAR	COBBLESTONE	ACKERSTONE	6"X6"X80MM	CHESTNUT BROWN	GRIND FINISH	THROUGH MIX -INSTALLED PER SPEC	08 L6.02
	P-8	VEHICULAR	COBBLESTONE	ACKERSTONE	6"X6"X80MM	MESA BEIGE	GRIND FINISH	THROUGH MIX -INSTALLED PER SPEC	08 L6.02
	P-9	VEHICULAR	COBBLESTONE	ACKERSTONE	6"X6"X80MM	AGAVE	TUMBLED FINISH	THROUGH MIX -INSTALLED PER SPEC	08 L6.02
	P-10	MOW STRIP	CONCRETE HEADER	PER CIVIL	PER CIVIL	PER CIVIL	PER CIVIL	PER CIVIL	

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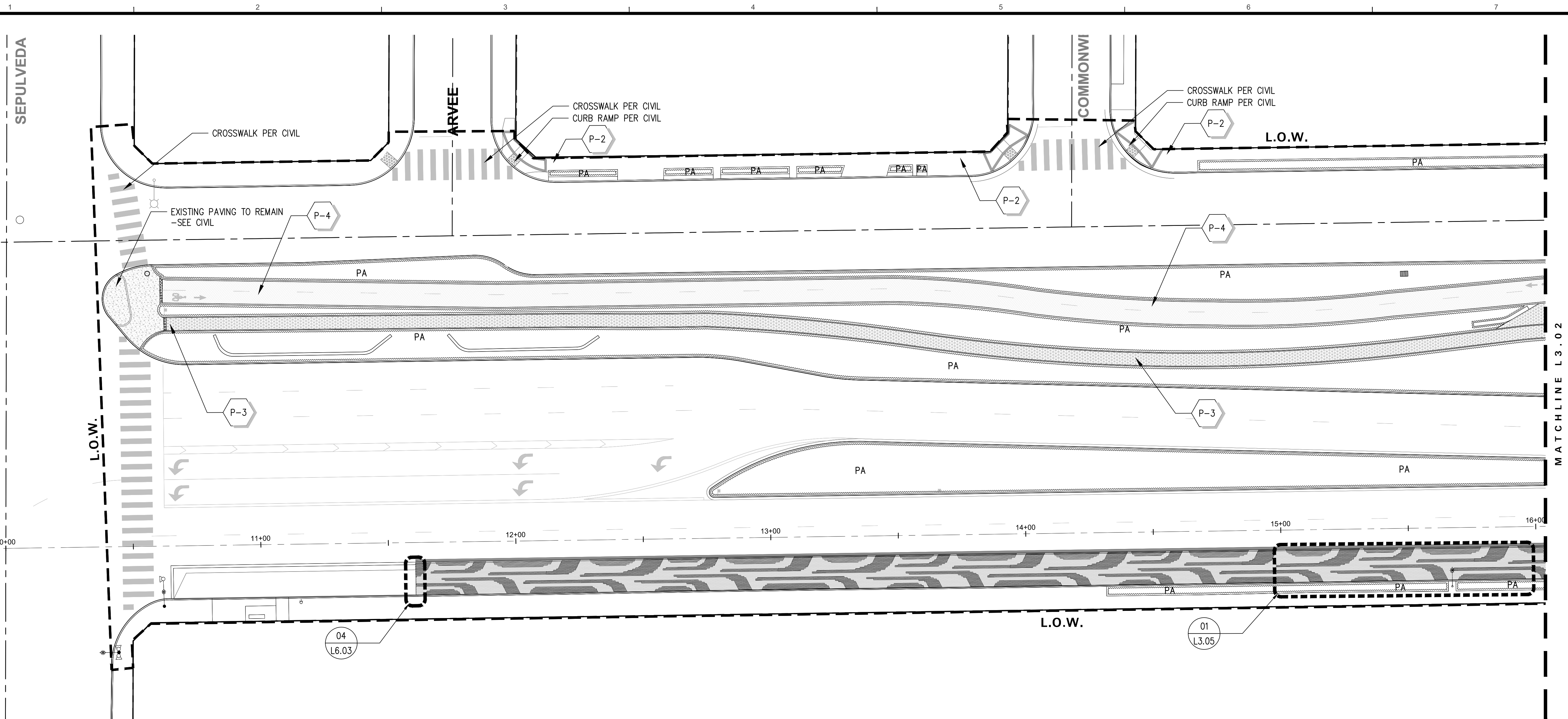
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PAVING LEGEND
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 SEE TITLE SHEET
 SHEET 13.00
 SHEET 64 OF 65 SHEETS

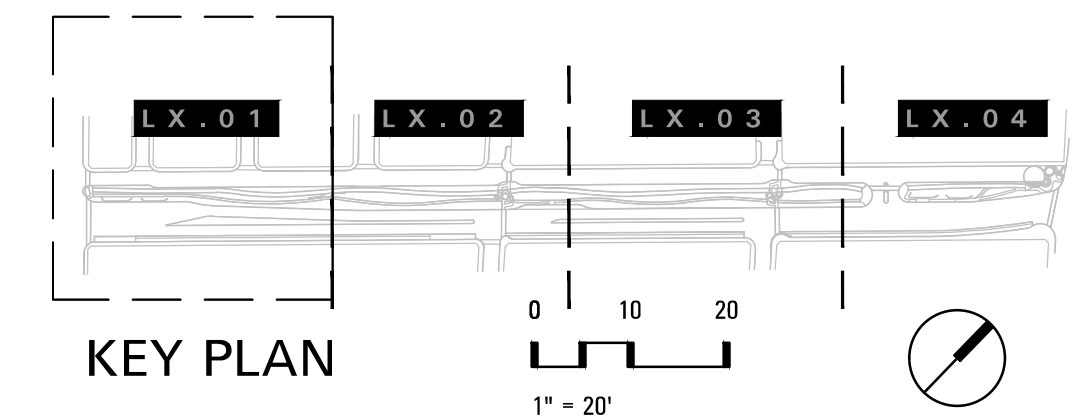
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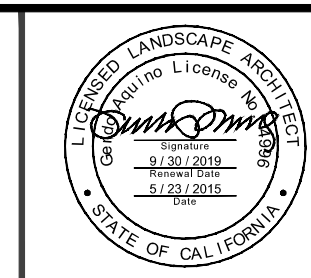
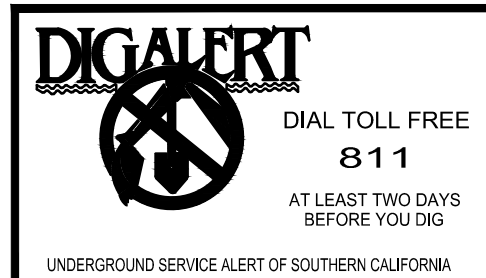
SEE L3.00 FOR COMPLETE PAVING LEGEND & NOTES



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CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)



PLANS PREPARED UNDER THE SUPERVISION OF:
Jason Fusssel
JASON FUSSEL RCE-70879 EXP. 06/30/19 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

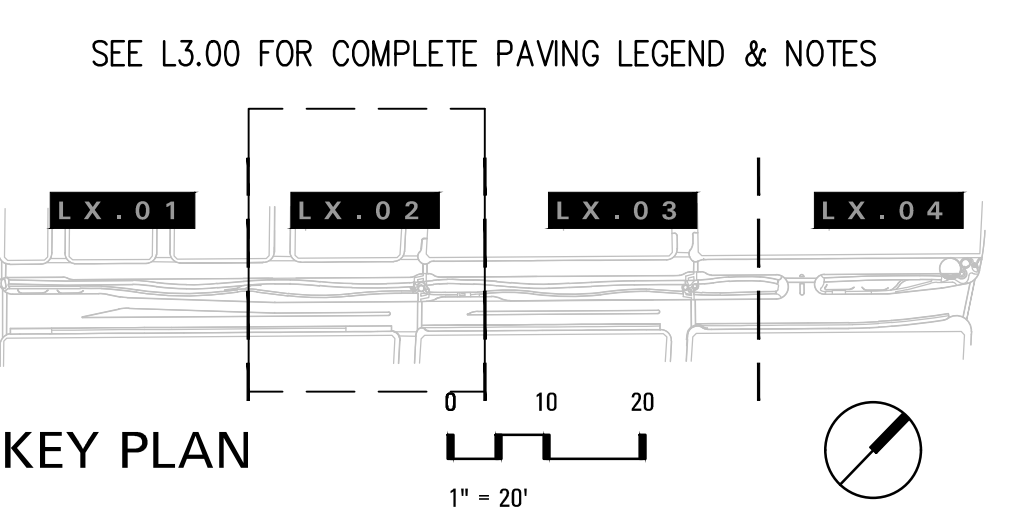
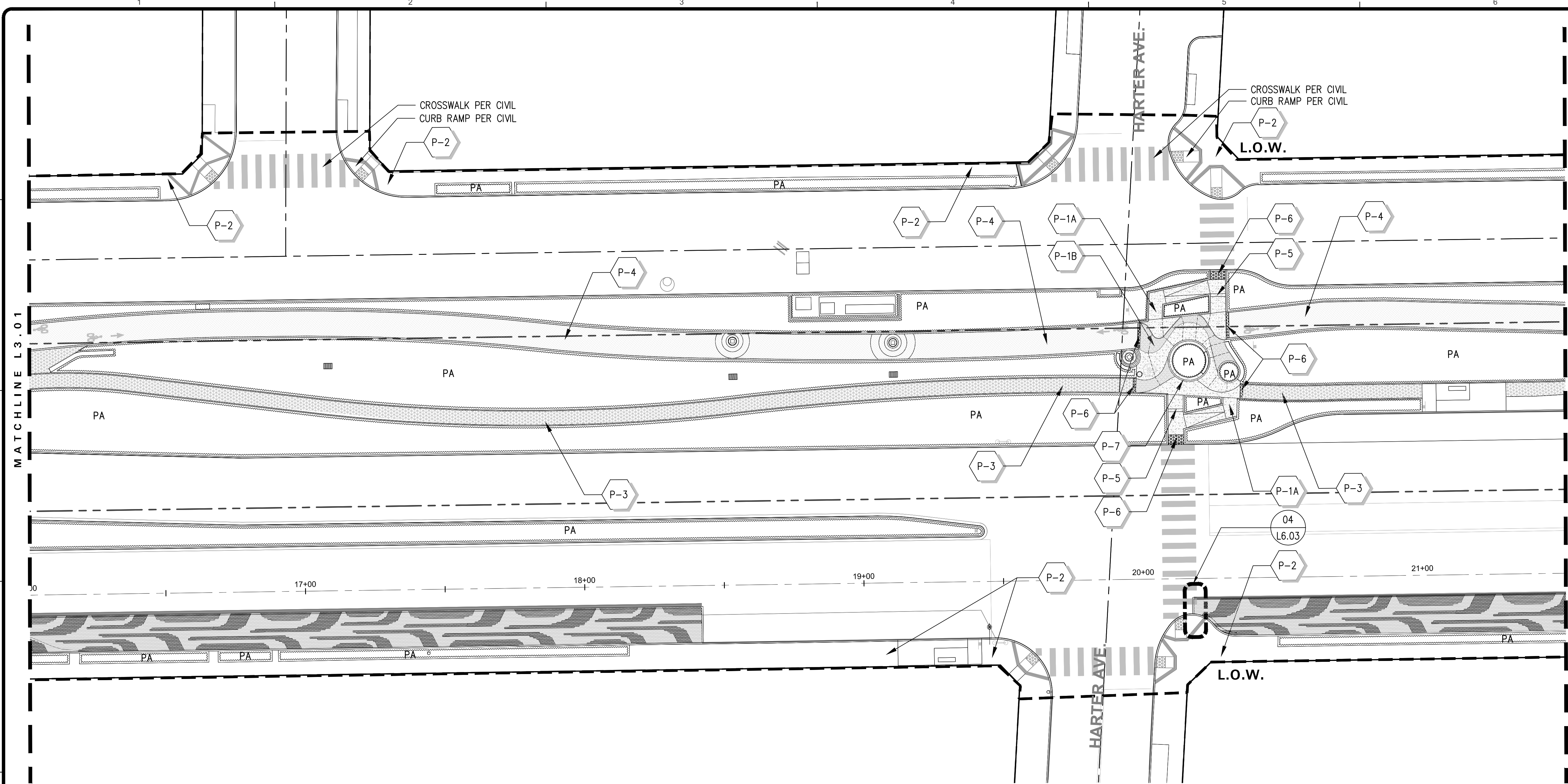
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SHEET L3.01
SHEET 65 OF 85 SHEETS

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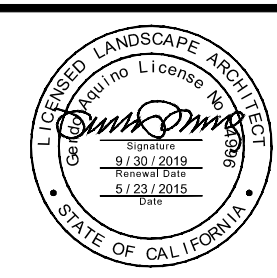
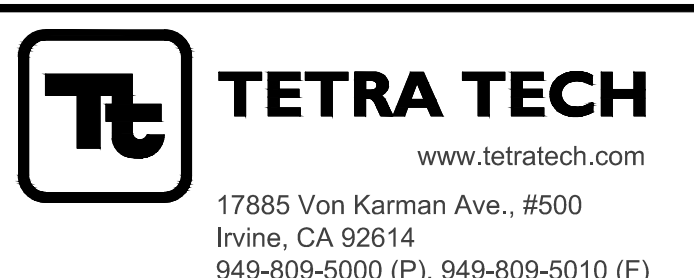
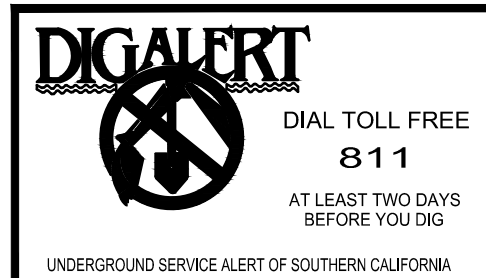
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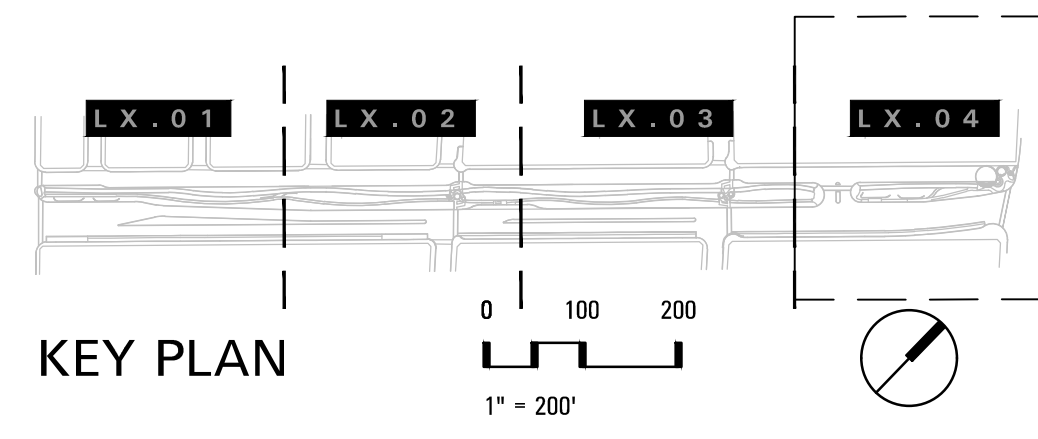
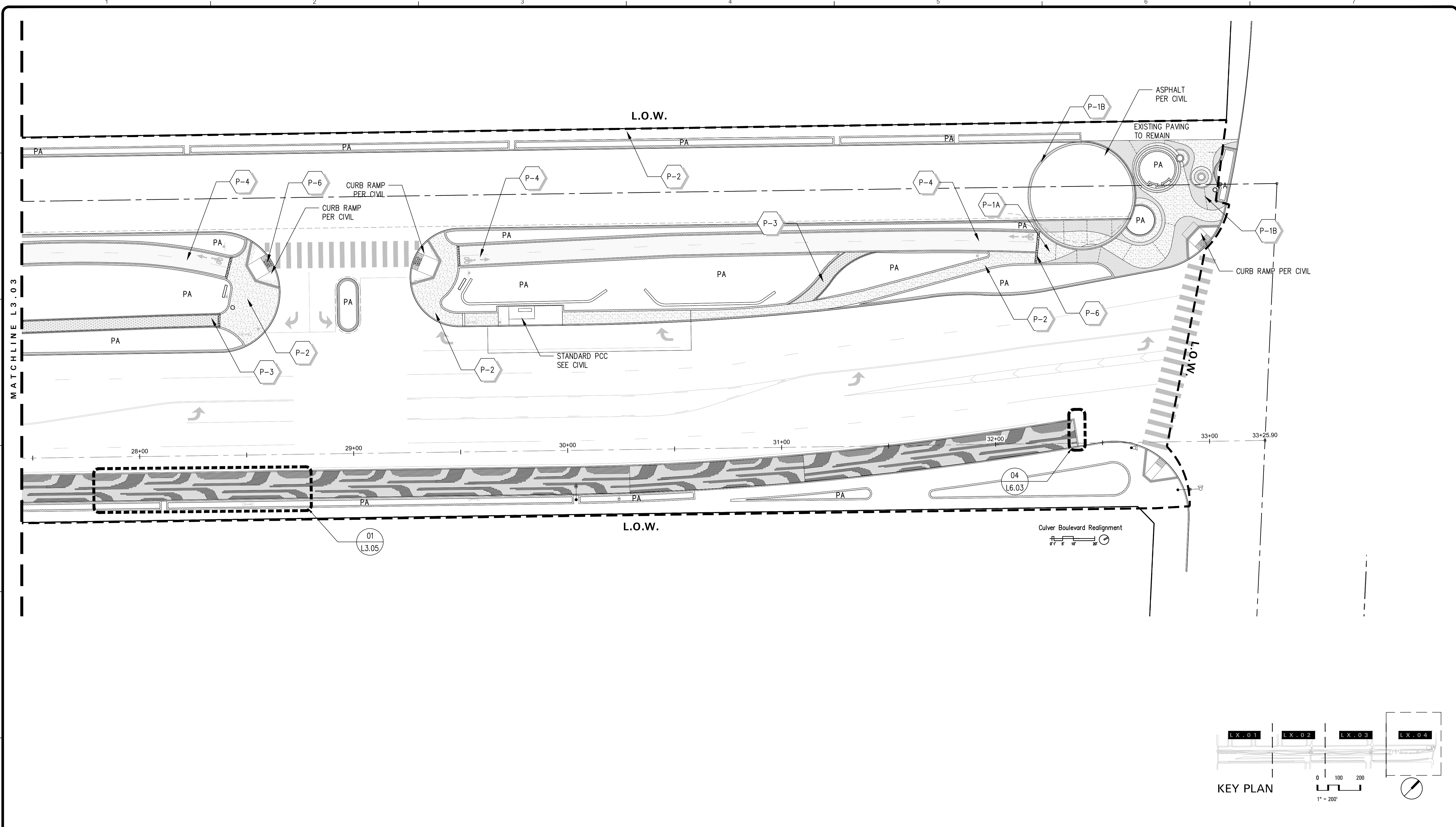
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 SHEET 66 OF 65 SHEETS

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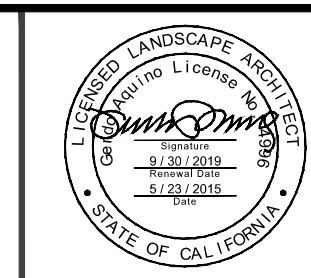
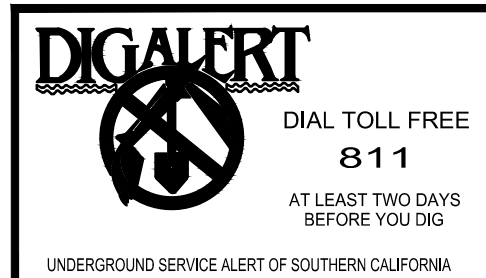
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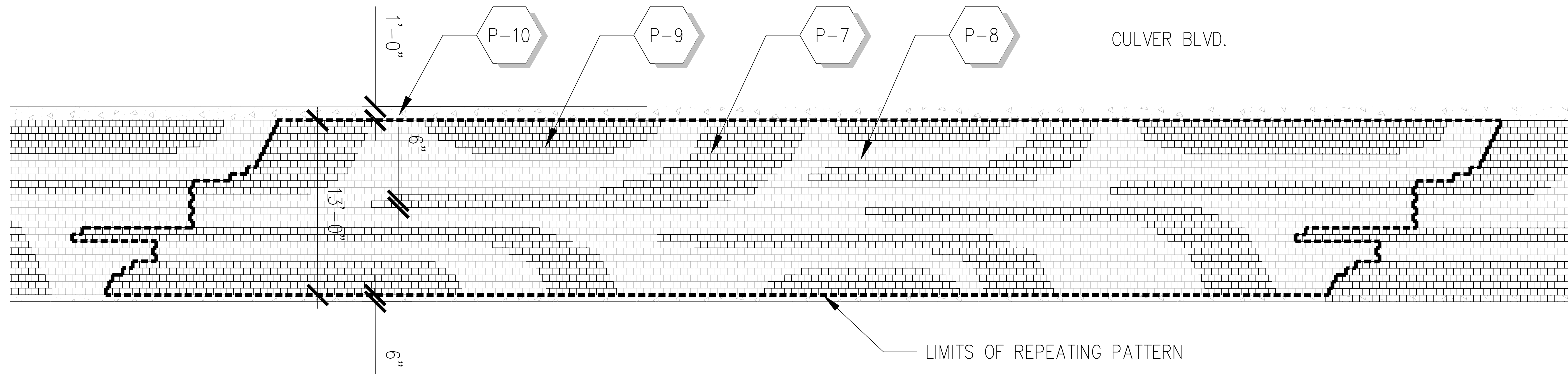
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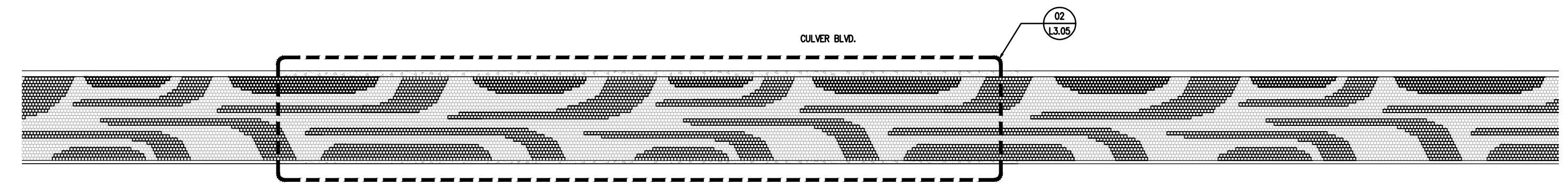
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 SHEET 68 OF 65 SHEETS
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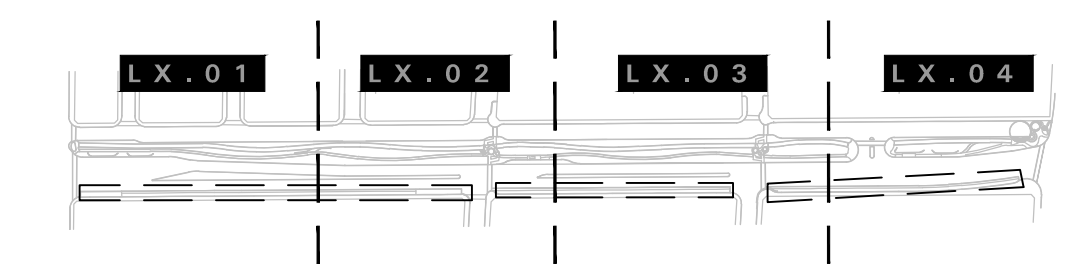
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02 STREET BUFFER PARKING – REPEAT
1/4" = 1'-0"



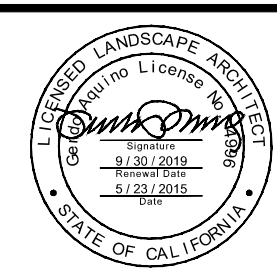
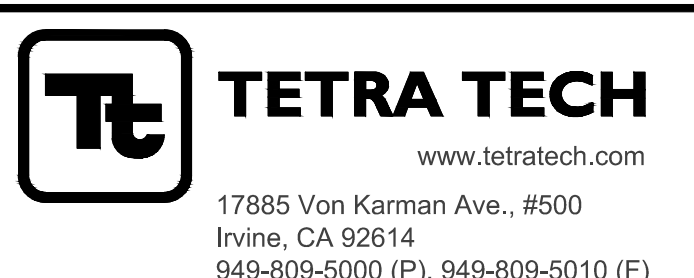
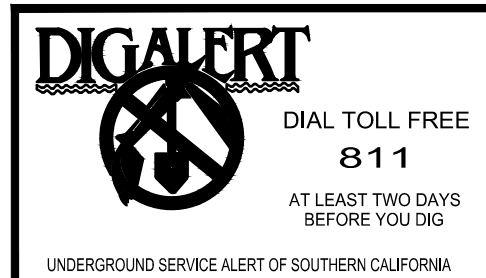
01 PATTERN
1/16" = 1'-0"



KEY PLAN

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SHEET 69 OF 65 SHEETS

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PLANTING NOTES

- AGRONOMIC SOIL FERTILITY TESTING: CONTRACTOR SHALL PERFORM REQUIRED AGRONOMIC SOIL FERTILITY TESTING AND PERCOLATION TESTING OF THE NATIVE SITE SOILS PRIOR TO EXTERIOR PLANTING INSTALLATION. FERTILITY TESTING SHALL INCLUDE RECOMMENDATIONS FOR PREPARATION OF THE SITE'S SURFACE SOILS, AND FOR PREPARATION OF THE AMENDED SOIL BACKFILL FOR LANDSCAPE PLANTING. REFER TO SOIL PREPARATION SPECIFICATIONS FOR REQUIREMENTS. WHERE NATIVE SITE SOIL IS INSUFFICIENT, OR AS DIRECTED UNDER THE SPECIFICATIONS, PROVIDE APPROVED IMPORTED AMENDED TOPSOIL FILL IN QUANTITY AS REQUIRED. REFER TO SPECIFICATIONS.
- FINISH GRADING: FINISH GRADING OF LANDSCAPE PLANTING AREAS SHALL BE REVIEWED AND APPROVED IN THE FIELD BY LANDSCAPE ARCHITECT FOLLOWING INSTALLATION AND BACKFILL OF SUB-SURFACE IRRIGATION SYSTEM COMPONENTS, REQUIRED SURFACE SOIL PREPARATION, AND PRIOR TO INSTALLATION OF EXTERIOR PLANTS. REMOVE ALL TRASH ROCKS, AND CONSTRUCTION DEBRIS PRIOR TO PLANT MATERIAL INSTALLATION. SMOOTH EVEN, CONSISTENT SURFACE GRADIENT TRANSITIONS IN ALL PLANTING AREAS IS THE DESIGN INTENT. AS REQUIRED, PROVIDE ADDITIONAL FILL FOR LOW SPOTS AND SHAPE SURFACE AREAS ACCORDINGLY TO ELIMINATE HIGH SPOTS.
- FINISH GRADING ELEVATIONS: PRIOR TO PLANTING INSTALLATION, CONTRACTOR SHALL COMPACT THE FINISHED GRADIENTS OF DESIGNATED PLANTING AREAS TO ESTABLISH A FIRM BUT NOT OVERLY COMPACTED FINISHED SOIL LEVEL THAT IS HORTICULTURALLY ACCEPTABLE FOR LANDSCAPE PLANTING THAT WILL NOT PIT, RUT, OR DEPRESS UNDER FOOT-TRAFFIC DURING PLANTING OPERATIONS. CONTRACTOR SHALL VERIFY WITH THE LANDSCAPE ARCHITECT THAT FINISHED GRADING ELEVATIONS OF SHRUB OR GRASSCOVER AREAS ARE SET AT 2" BELOW THE FINISHED SURFACE ELEVATION OF ADJOINING WALLS, PAVEMENTS, ETC. (CHECK ALLOW FOR MULCH TO BE APPLIED ON GRADIENTS). IN AREAS WHERE SOODED TURF GRASS APPLICATIONS ARE PROVIDED, FINISHED GRADE ELEVATIONS SHALL BE SET ONE-INCH (1") BELOW THE FINISHED SURFACE ELEVATION OF ADJOINING WALLS, PAVEMENTS, ETC. THE DESIGN INTENT IS TO PROVIDE A CONSISTENT, FIRM, EVEN SOIL GRADIENT ALONG ALL ADJOINING PAVEMENT SURFACE AREAS. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- EXCESS SOIL: ANY EXCESS SOIL THAT IS GENERATED BY EXCAVATIONS OR LANDSCAPE GRADING OPERATIONS SHALL BE REMOVED AND LEGALLY DISPOSED OF BY CONTRACTOR.
- MODIFICATIONS: EXACT LOCATIONS OF PLANT MATERIALS SHALL BE FLAGGED/STAKED, REVIEWED, AND APPROVED BY LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO INSTALLATION OF PLANT MATERIALS. ORIENT PLANT MATERIALS TO SUIT FIELD CONDITIONS OR PER DESIGNER PREFERENCE. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE MODIFICATIONS TO PLANT MATERIAL LAYOUT, LOCATION, OR ORIENTATION AT ANY TIME DURING THE CONTRACT PERIOD. CHANGES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONFLICTS: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADVISE LANDSCAPE ARCHITECT OF ANY CONDITION FOUND ON THE SITE WHICH PROHIBITS INSTALLATION OF PLANT MATERIALS AS SHOWN ON THE DRAWINGS.
- PLANTING LAYOUT: UNLESS OTHERWISE NOTED ON THE DRAWINGS, PLANT MATERIALS SHALL BE PROPERLY ALIGNED AND EQUALLY-SPACED. REFER TO PLANTING DETAILS FOR ALIGNMENT. PROVIDE DESIGNATED PLANTING AREAS THAT ARE FULL, DENSE, AND COMPLETE WITH NO VOIDS DUE TO MISSING PLANT MATERIALS. INSTALL ALL TREES A MINIMUM OF FOUR (4) FEET FROM BACK OF CURB, EDGE OF WALL OR PAVING.
- UTILITY, IRRIGATION, AND PLANT MATERIAL CONFLICTS: EVERY EFFORT HAS BEEN MADE TO AVOID CONFLICTS BETWEEN THE PLANT MATERIAL LOCATIONS AND LOCATIONS OF MAJOR SITE UTILITIES OR IRRIGATION SYSTEM COMPONENTS. CONTRACTOR IS ADVISED THAT LOCATIONS OF PLANT MATERIALS AS SHOWN ON THE DRAWINGS TAKE PRECEDENCE OVER LOCATIONS OF ANY IRRIGATION SYSTEM COMPONENTS (PIPPING, VALVES, BACKFLOW, ETC.). NOTE THAT IRRIGATION SYSTEM DRAWINGS ARE DIAGRAMMATIC. SHOULD CONFLICTS BECOME EVIDENT BETWEEN THE PLANTING DESIGN CONCEPT (I.E. TREE LOCATIONS, HEDGES, SHRUB MASSINGS, ETC.) AND THE IRRIGATION SYSTEM COMPONENTS, CONTRACTOR SHALL FIELD-ADJUST THE LOCATION OF IRRIGATION SYSTEM COMPONENTS ACCORDINGLY, AS REQUIRED, TO ELIMINATE ANY CONFLICTS WITH THE DESIGN INTENT OF PLANT MATERIAL LOCATIONS, AS DIRECTED BY LANDSCAPE ARCHITECT. ANY REQUIRED CHANGES SHALL BE PERFORMED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- CONTRACT GROWING REQUIREMENTS: WHEN REQUIRED BY THE SPECIFICATIONS, AND WITHIN 30 DAYS AFTER AWARD OF BID, CONTRACTOR SHALL ARRANGE FOR AND SECURE VIA CONTRACT-GROWING AGREEMENTS WITH NURSERY SUPPLIERS ALL PLANT MATERIALS AS SPECIFIED FOR THIS PROJECT. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
- QUALITY: THE CONTRACTOR SHALL FURNISH AND INSTALL ONLY SUPERIOR-QUALITY PREMIUM-GRADE PLANT MATERIALS FOR THIS PROJECT. FULL IN CONTAINER, SYMMETRICAL, WELL-BALANCED, DENSELY FOLIATED, WELL-ROOTED, VIGOR IN GROWTH, PEST AND DISEASE-FREE PLANT MATERIALS MEETING THE MINIMUM SIZES INDICATED FOR EACH SPECIES IS THE DESIGN INTENT. ANY PLANT MATERIALS FOUND TO NOT CONFORMING TO THIS INTENT WILL BE REJECTED BY LANDSCAPE ARCHITECT AND SHALL BE REMOVED IMMEDIATELY FROM THE SITE.
- MATCHING STOCK: PROVIDE MATCHING FORMS AND SIZES FOR ALL PLANT MATERIALS WITHIN EACH SPECIES, PLANT TYPE, AND SIZE DESIGNATED ON THE DRAWINGS. ALIGN TREES SPACING AS NECESSARY, SUBJECT TO REVIEW BY THE LANDSCAPE ARCHITECT.
- SELECTION AND TAGGING OF PLANT MATERIAL STOCK: ONCE NURSERY SOURCES ARE IDENTIFIED, THE CONTRACTOR SHALL ARRANGE FOR FIELD-SELECTION AND TAGGING OF PLANT MATERIALS BY THE LANDSCAPE ARCHITECT PRIOR TO DELIVERY. CONTRACTOR SHALL ARRANGE FOR REVIEW AND APPROVAL OF ALL PLANT MATERIALS DELIVERED TO THE SITE AND PRIOR TO INSTALLATION. SELECTION AND TAGGING OF PLANT MATERIALS AT THE NURSERY OR PLACE OF ORIGIN DOES NOT CANCEL THE RIGHT OF LANDSCAPE ARCHITECT TO REJECT PLANT MATERIALS THAT ARE DELIVERED AT THE PROJECT SITE IF DAMAGED OR UNACCEPTABLE CONDITIONS ARE FOUND THAT WERE NOT DETECTED AT THE NURSERY, PLACE OF ORIGIN, OR DURING THE SUBMITTAL PROCESS.
- INSTALLER QUALIFICATIONS: EXECUTION OF WORK HEREIN SHALL BE PERFORMED BY A VALID CONTRACTOR LICENSE FOR THE PERFORMED WORK SCOPE.
- PLANT QUANTITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLANT COUNTS AND AREA REQUIREMENTS AS INDICATED ON THE DRAWINGS. PLANT MATERIAL QUANTITIES, IF PROVIDED, ARE FOR OWNER'S INFORMATION ONLY. PLANT SPACING IS AS INDICATED ON THE PLANT LEGEND. IT IS CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE NECESSARY QUANTITY OF PLANT MATERIALS NEEDED TO PROVIDE FULL COVERAGE OF PLANTING AREAS AS INDICATED ON THE DRAWINGS, AT THE SPECIFIED SPACING AND PATTERN LAYOUT REQUIREMENTS.
- HANDLING OF PLANT MATERIALS: ONLY HANDLE PLANT MATERIALS BY HORTICULTURALLY-ACCEPTED PRACTICES. FOR CONTAINER-GROWN STOCK, ONLY HANDLE PLANT MATERIALS BY THEIR CONTAINERS. DO NOT HANDLE PLANT MATERIALS BY THEIR TRUNKS OR STEMS. PROTECT PLANT MATERIALS FROM DAMAGE DURING MOVING OR TRANSPORT.
- TREE STAKING/GUYING: TREES SHALL BE SET AND MAINTAINED IN AN UPRIGHT VERTICAL ORIENTATION THROUGHOUT THE DURATION OF THE CONTRACT. PROVIDE STAKING OR GUYING MATERIALS, AS REQUIRED, THROUGH THE DIRECTION OF THE LANDSCAPE ARCHITECT. WHEN PROVIDED, ADJUST STAKING OR GUYING MATERIALS ACCORDINGLY, AS REQUIRED, TO MEET THIS STANDARD, THROUGHOUT THE DURATION OF THE LANDSCAPE ESTABLISHMENT PERIOD.
- PRUNING OF PLANT MATERIALS: CONTRACTOR SHALL ONLY PRUNE INSTALLED PLANT MATERIALS AT THE WRITTEN DIRECTION OF LANDSCAPE ARCHITECT. PLANT MATERIALS THAT HAVE BEEN PRUNED, TOPPED, THINNED, OR LACED PRIOR TO OR WITHOUT THIS DIRECTION, BY EVIDENCE OF FRESH CUTS, SHALL BE SUBJECT TO REJECTION BY LANDSCAPE ARCHITECT. ALL PRUNING OPERATIONS SHALL BE UNDER THE DIRECT PRESENCE OF AN APPROVED CERTIFIED ARBORIST, AND WORK PERFORMED THROUGH ANSI A300 PRUNING REQUIREMENTS.
- ROOT CONTROL BARRIERS: FURNISH AND INSTALL ROOT CONTROL BARRIERS FOR ALL TREES LOCATED WITHIN 5'-0" OF PAVING, WALLS, STEPS, ETC. PROVIDE A MINIMUM ROOT BARRIER LENGTH OF 10'-0" EXTENDING FROM THE CENTER OF THE TRUNK OUTWARDS AND ALONG THE HARDSCAPE ELEMENT BEING PROTECTED. REFER TO DRAWINGS FOR LAYOUT DIAGRAM. TYPE, SIZE, AND INSTALLATION REQUIREMENTS PER THE SPECIFICATIONS. EXACT PLACEMENT OF METAL HEADERS TO BE REVIEWED BY LANDSCAPE ARCHITECT PRIOR TO FINAL INSTALLATION. PROVIDE AN ALLOWANCE OF SIX (6) OF THE TOTAL LINEAL FOOTAGE OF METAL BARRIER TO BE FURNISHED AND INSTALLED DURING PROGRESS OF WORK AS MAY BE DIRECTED BY THE LANDSCAPE ARCHITECT, IN ADDITION TO ALL HEADERS INDICATED ON DRAWINGS.
- IRRIGATION: PLANT MATERIALS SHALL BE THOROUGHLY IRRIGATED IMMEDIATELY AFTER PLANTING. MANUALLY IRRIGATE OR ACTIVATE IRRIGATION SYSTEMS NECESSARY TO APPLY SUFFICIENT WATER REQUIRED TO ADEQUATELY SUSTAIN VEGETATION ONCE INSTALLED. FORM 30" WATERING BASIN AROUND ALL TREES NOT INSTALLED IN LAWN OR PAVED AREAS. FILL BASIN WITH 1-1/2 INCH LAYER OF MULCH. HOLD GRAVEL MULCH AWAY FROM TRUNK OF TREE.
- CONDITION OF PLANT MATERIALS: CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL INSTALLED PLANT MATERIALS IN A HEALTHY, THRIVING, VIGOROUS, PEST AND DISEASE-FREE CONDITION THROUGHOUT INSTALLATION AND DURING THE SPECIFIED LANDSCAPE ESTABLISHMENT PERIOD. ANY PLANT MATERIALS FOUND TO BE MISSING, DEAD, DYING, BROKEN, DISEASED, OR OTHERWISE DAMAGED DURING THE DURATION OF THE CONTRACT SHALL BE REMOVED AND REPLACED ACCORDINGLY WITH ACCEPTABLE NURSERY STOCK MEETING THE SAME SPECIFIED SPECIES, VARIETY, SIZE, AND QUALITY.
- EXISTING VEGETATION: AS APPLICABLE, EXISTING VEGETATION DESIGNATED TO REMAIN SHALL BE PROTECTED IN-PLACE UNLESS OTHERWISE NOTED PER SPECIFICATION REQUIREMENTS. ANY DAMAGE TO EXISTING VEGETATION DESIGNATED TO REMAIN SHALL BE REPLACED BY CONTRACTOR AT THE SAME SIZE OF THE DAMAGED MATERIAL, AT NO ADDITIONAL COST TO OWNER.
- LANDSCAPE ESTABLISHMENT PERIOD: FOLLOWING SUBSTANTIAL COMPLETION, FOR THE SPECIFIED DURATION INDICATED IN THE SPECIFICATIONS, CONTRACTOR SHALL PERFORM ALL NECESSARY MAINTENANCE REQUIREMENTS FOR WARE ESTABLISHMENT OF LANDSCAPE PLANTING AND OTHER INSTALLED EXTERIOR IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO, FULLY-OPERATIONAL AND FUNCTIONING IRRIGATION SYSTEM, TRASH REMOVAL, WEED ABATEMENT, PEST AND DISEASE CONTROL, REMEDIAL GRADING, EROSION CONTROL, MULCH DRESSINGS, PAVEMENT AND SURFACE CLEANING, FREE-FLOW DRAINAGE, OR OTHER FUNCTIONS.

PLANTING SCHEDULE

SYMBOL	ABBREV.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	SIZE	REMARKS/COMMENTS	DETAIL(S)
TREES								
		EXISTING TREE (PROTECT IN PLACE)	EXISTING TREE TO REMAIN	N/A	N/A	N/A	PROTECT IN PLACE. DO NOT COMPACT OR DISTURB SOIL IN DRIP-LINE. DO NOT PRUNE WITHOUT DIRECTION FROM LANDSCAPE ARCHITECT.	SEE SHEET L0.01
	PIN HAL	FINIS HALPENSIS	ALEPPO PINE	48" BOX (STD.) 60" BOX AS NOTED ON PLAN	REFER TO PLANTING PLAN	10'-12" HEIGHT 5'-7" SPREAD	FULL, DENSE GROWTH, PREMIUM GRADE, SPECIMEN QUALITY, SYMMETRICAL, WELL-ROOTED.	 01 (L7.0)
	CEO DEO	CEDRUS DEODAR	DEODAR CEDAR	48" BOX (STD.) 60" BOX AS NOTED ON PLAN	AS NOTED ON PLAN	20'-25" HEIGHT 15'-20" SPREAD	FULL, DENSE GROWTH, PREMIUM GRADE, SPECIMEN QUALITY, SYMMETRICAL, WELL-ROOTED.	 01 (L7.0)
	CER OCC	CERGIS OCCIDENTALIS	WESTERN REDBUD	36" BOX (STD.)	REFER TO PLANTING PLAN	6'-10" HEIGHT 5'-7" SPREAD	MULTI-HEAD, FULL, DENSE GROWTH, PREMIUM GRADE, SPECIMEN QUALITY, SYMMETRICAL, WELL-ROOTED.	 01 (L7.0)
	PLA RAC	PLATANUS RACEMOSA	CALIFORNIA SYCAMORE	36" BOX (STD.)	REFER TO PLANTING PLAN	15'-20" HEIGHT 15'-20" SPREAD	FULL, DENSE GROWTH, PREMIUM GRADE, SPECIMEN QUALITY, SYMMETRICAL, WELL-ROOTED.	 01 (L7.0)
	CER PAR	CERODIUM PARKINSONIA	PALO VERDE "DESERT MUSEUM"	36" BOX (STD.)	REFER TO PLANTING PLAN	10'-12" HEIGHT 5'-7" SPREAD	FULL, DENSE GROWTH, PREMIUM GRADE, SPECIMEN QUALITY, SYMMETRICAL, WELL-ROOTED. PER BIOFLORITERRA	 01 (L7.0)

SYMBOL	ABBREV.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	BLOOM/COLOR	REMARKS/COMMENTS	DETAIL(S)
SHRUBS AND GRASSES								
	MYO PAR	MYOPORIUM PARVIFOLIUM	CREeping MYOPORIUM	1 GALLON	12" O.C. TRIANGULAR SPACING	SPRING / BROWN	FULL, DENSE, SYMMETRICAL, WELL-ROOTED, SPECIMEN QUALITY.	 02 (L7.0)
	EPI CAN	EPILOBIUM CANUM	CALIFORNIA FUCHSIA	1 GALLON	12" O.C. TRIANGULAR SPACING	---	FULL, DENSE, SYMMETRICAL, WELL-ROOTED, SPECIMEN QUALITY.	 02 (L7.0)
	BAC PIL	BACCHARIS PILULARIS	PIGEEEN POINT / DWARF COYOTE BRUSH	1 GALLON	12" O.C. TRIANGULAR SPACING	SPRING, SUMMER / RED	FULL, DENSE, SYMMETRICAL, WELL-ROOTED, SPECIMEN QUALITY.	 02 (L7.0)
	NEP RAC	NEPETA RACEMOSA	EASTERN CAT-MINT	1 GALLON	12" O.C. TRIANGULAR SPACING	SPRING, SUMMER / RED	FULL, DENSE, SYMMETRICAL, WELL-ROOTED, SPECIMEN QUALITY.	 02 (L7.0)
	THY VUL	THYMUS VULGARIS 'ARGENTUS'	GARDEN THYME	1 GALLON	12" O.C. TRIANGULAR SPACING	SPRING, SUMMER / RED	FULL, DENSE, SYMMETRICAL, WELL-ROOTED, SPECIMEN QUALITY.	 02 (L7.0)
	SAL LEU	SALVIA LEUCOPHYLLA	BEE'S BLISS PURPLE SAGE	1 GALLON	12" O.C. TRIANGULAR SPACING	SPRING, SUMMER / RED	FULL, DENSE, SYMMETRICAL, WELL-ROOTED, SPECIMEN QUALITY.	 02 (L7.0)
	LES FIL	LESSINGIA FILAGNIFOLIA	SILVER CARPET	1 GALLON	12" O.C. TRIANGULAR SPACING	SPRING, SUMMER / RED	FULL, DENSE, SYMMETRICAL, WELL-ROOTED, SPECIMEN QUALITY.	 02 (L7.0)
	LAM CAM	LANTANA CAMARA	BIG SAGE, WILD-SAGE, RED-SAGE, WHITE-SAGE, TICKLE-BERRY	1 GALLON	12" O.C. TRIANGULAR SPACING	SPRING, SUMMER / RED	FULL, DENSE, SYMMETRICAL, WELL-ROOTED, SPECIMEN QUALITY.	 02 (L7.0)
	CEA	CEANOTHUS	CALIFORNIA LILAC	1 GALLON	12" O.C. TRIANGULAR SPACING	SPRING, SUMMER / RED	FULL, DENSE, SYMMETRICAL, WELL-ROOTED, SPECIMEN QUALITY.	 02 (L7.0)
	RHU RHU	RHUS INTEGRIFOLIA	LEMONADE BERRY	1 GALLON	12" O.C. TRIANGULAR SPACING	SPRING, SUMMER / RED	FULL, DENSE, SYMMETRICAL, WELL-ROOTED, SPECIMEN QUALITY.	 02 (L7.0)
	SAL API	SALVIA APIANA	WHITE SAGE	1 GALLON	12" O.C. TRIANGULAR SPACING	SPRING, SUMMER / RED	FULL, DENSE, SYMMETRICAL, WELL-ROOTED, SPECIMEN QUALITY.	 02 (L7.0)
	DIA TAS	DIANELLA TASMANICA 'VAREGATA'	VAREGATED FLAX LILY	1 GALLON	12" O.C. TRIANGULAR SPACING	SPRING, SUMMER / RED	FULL, DENSE, SYMMETRICAL, WELL-ROOTED, SPECIMEN QUALITY.	 02 (L7.0)
	SCI HAT	SCIRPUS HATTORIANSUS	BULLRUSH	1 GALLON	12" O.C. TRIANGULAR SPACING	SPRING, SUMMER / RED	FULL, DENSE, SYMMETRICAL, WELL-ROOTED, SPECIMEN QUALITY.	 02 (L7.0)

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Dunko
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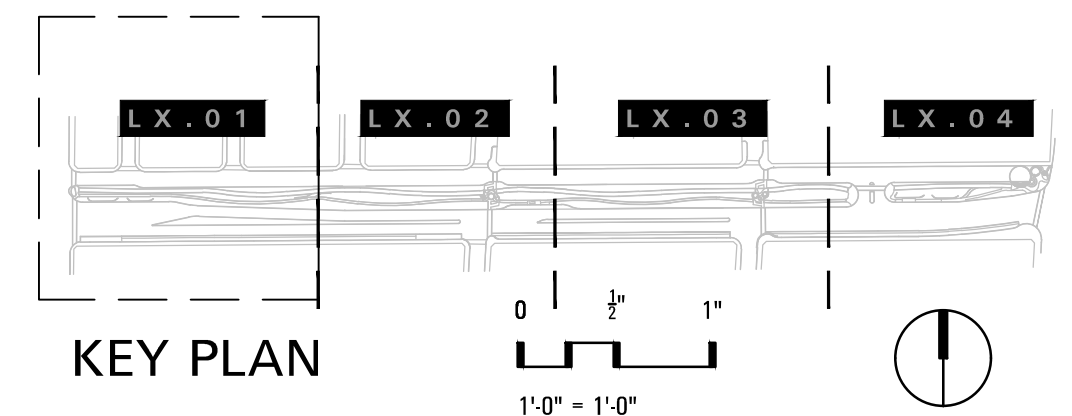
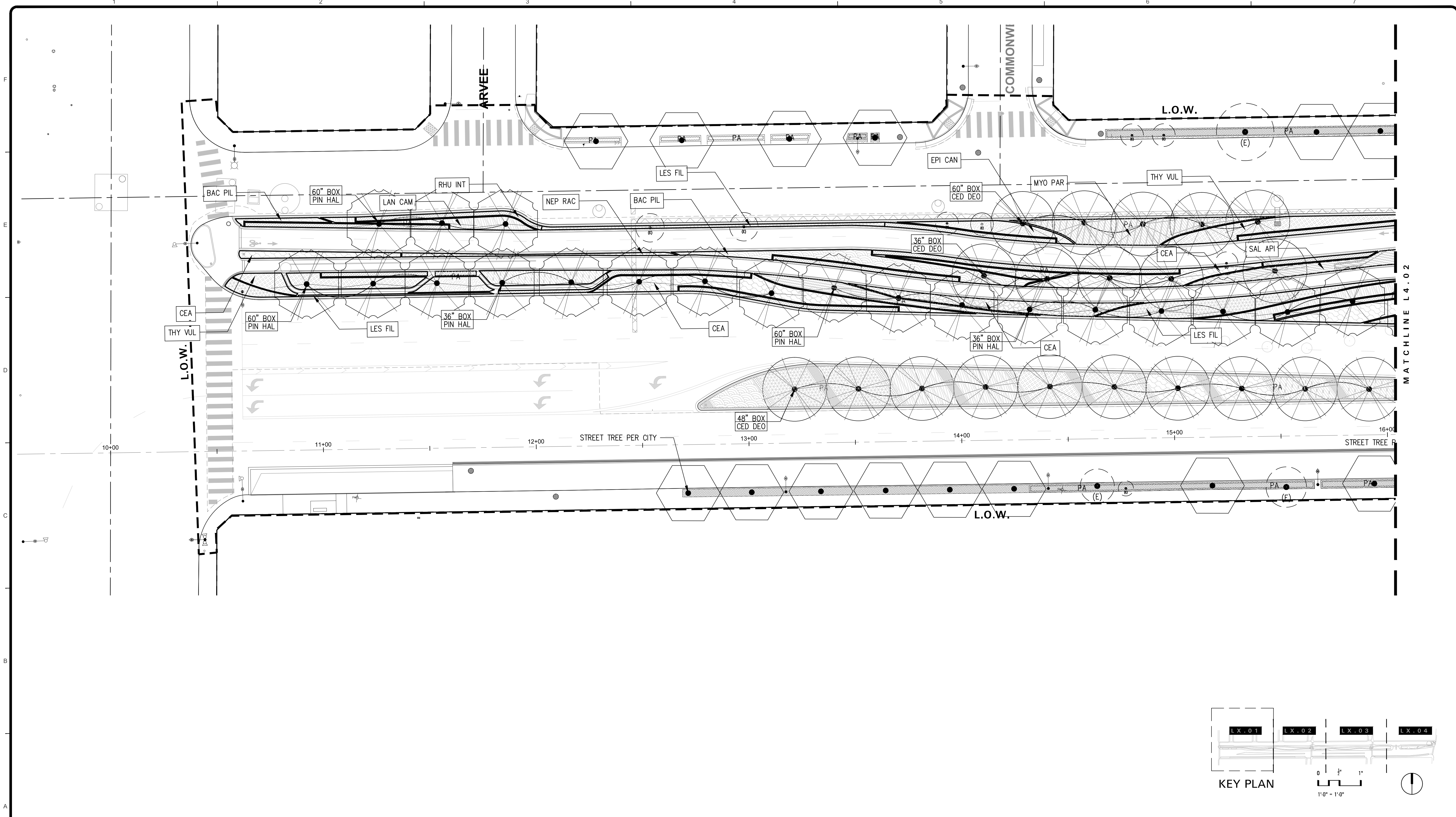
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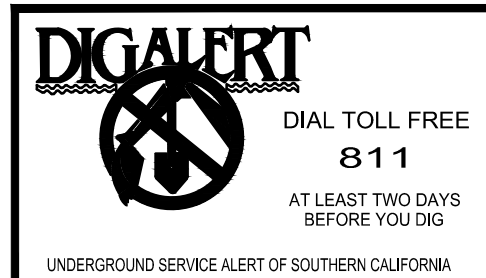
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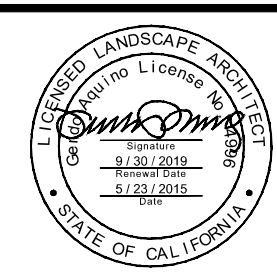


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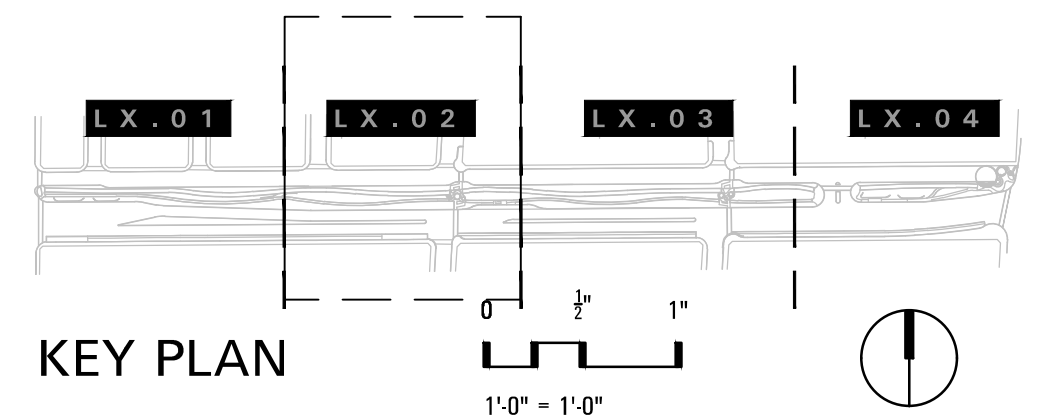
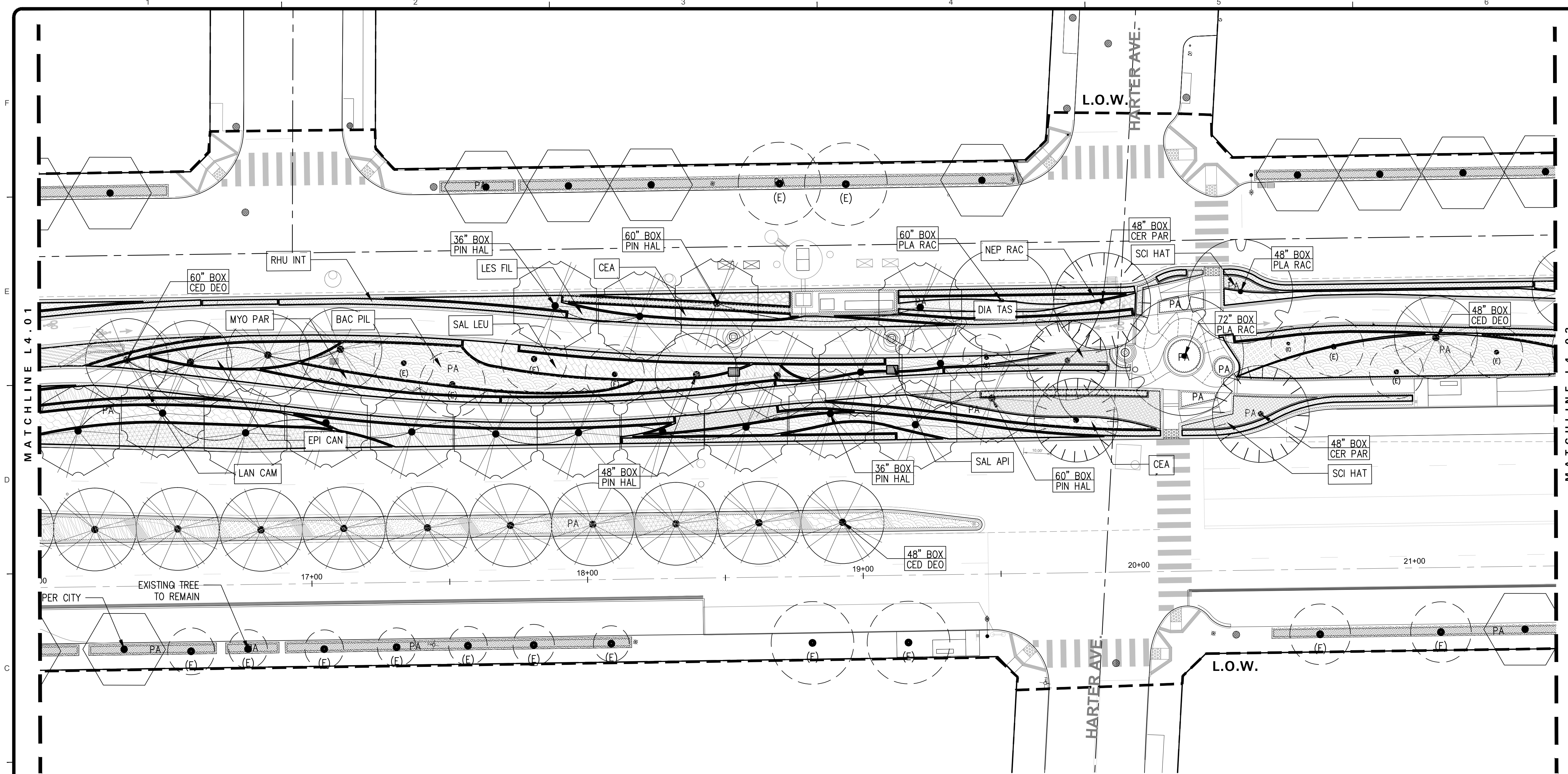
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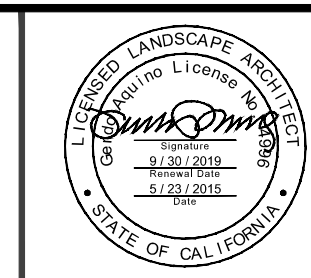
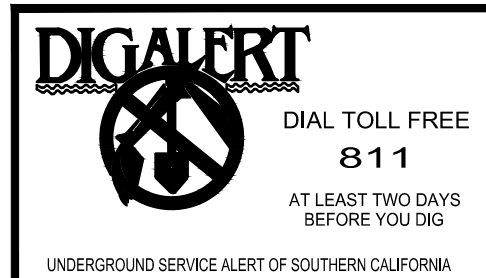
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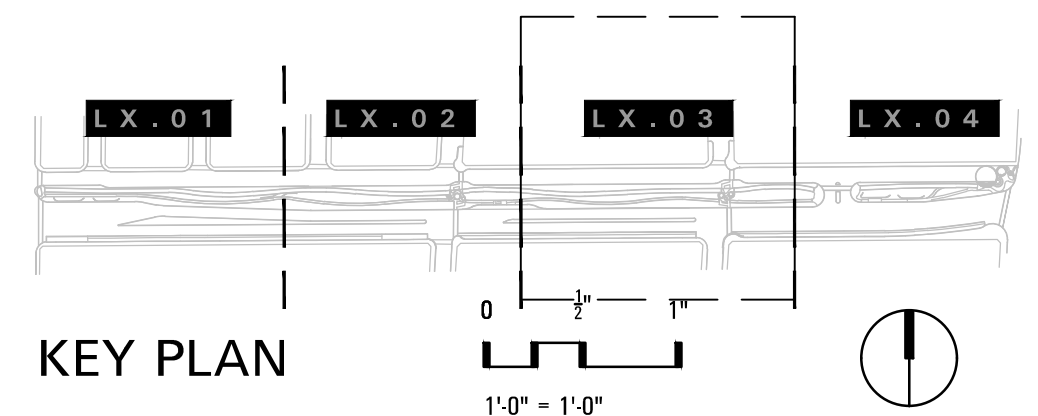
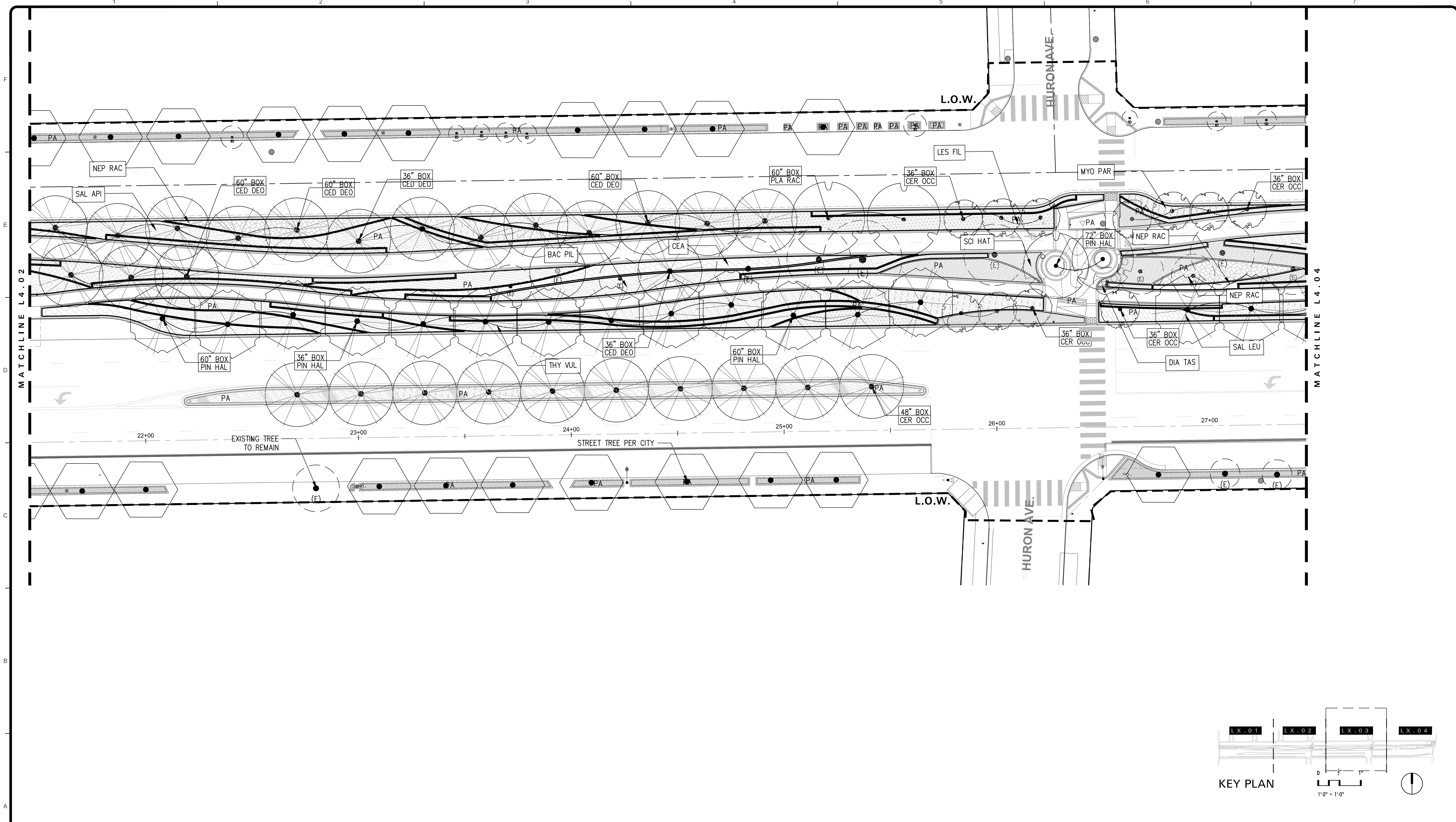
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LANDSCAPE ARCHITECT
Jason Fusssel
 LICENSED LANDSCAPE ARCHITECT
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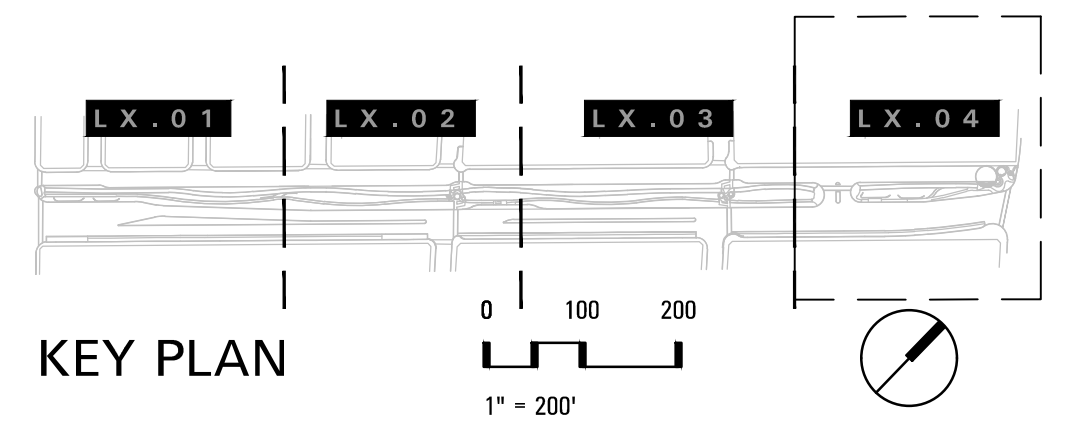
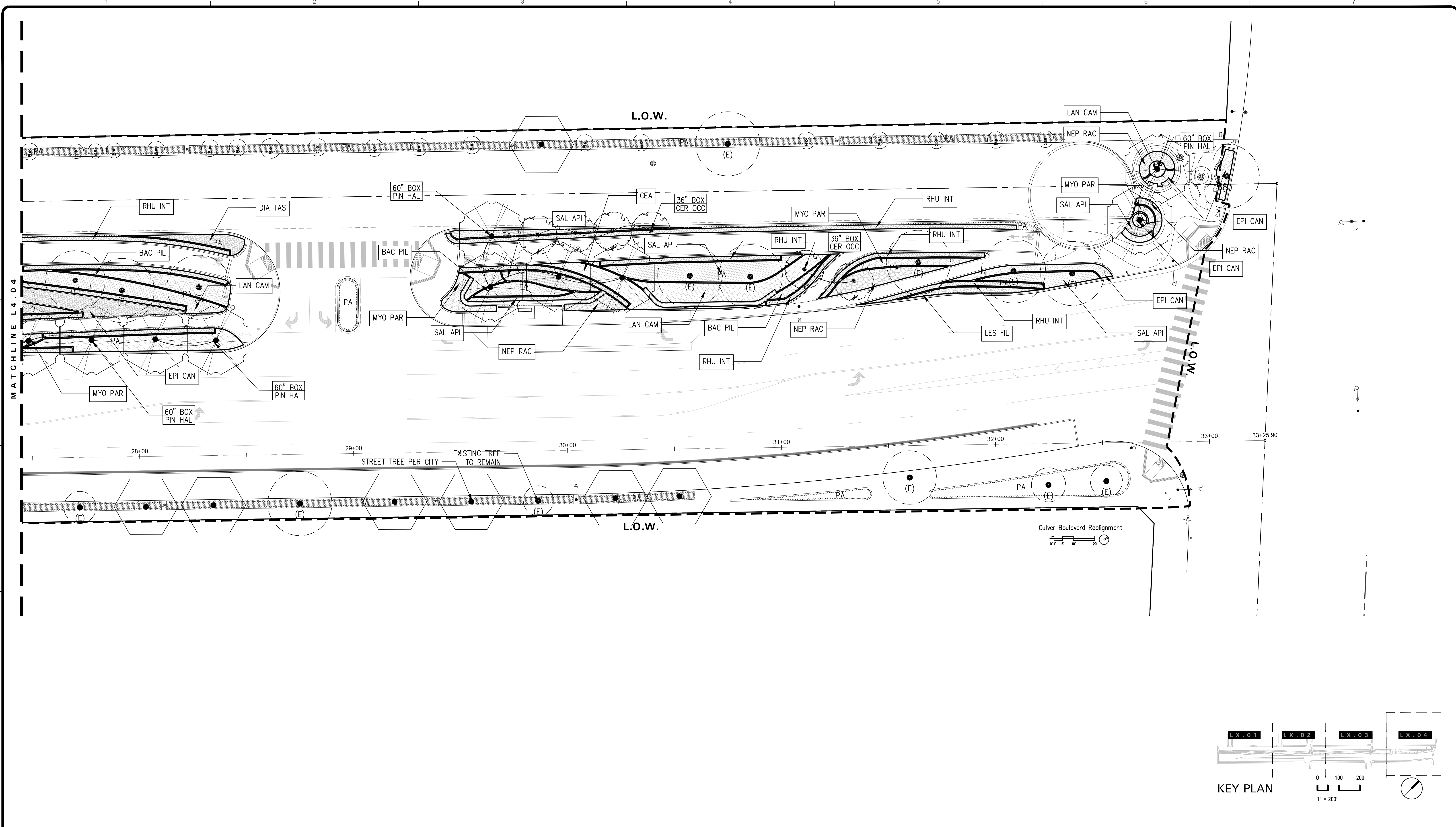
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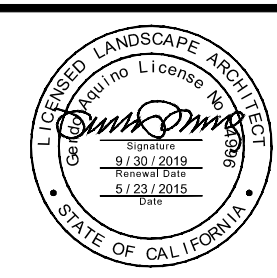
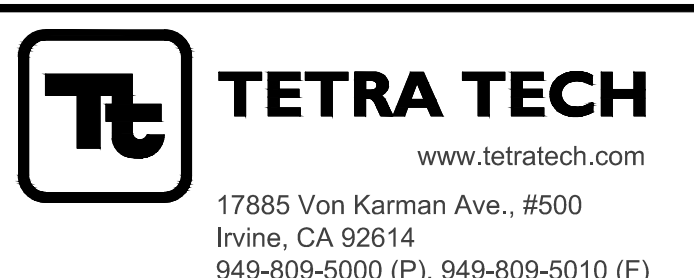
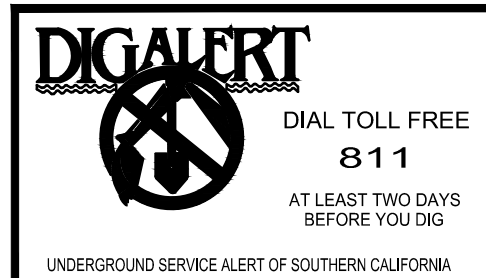
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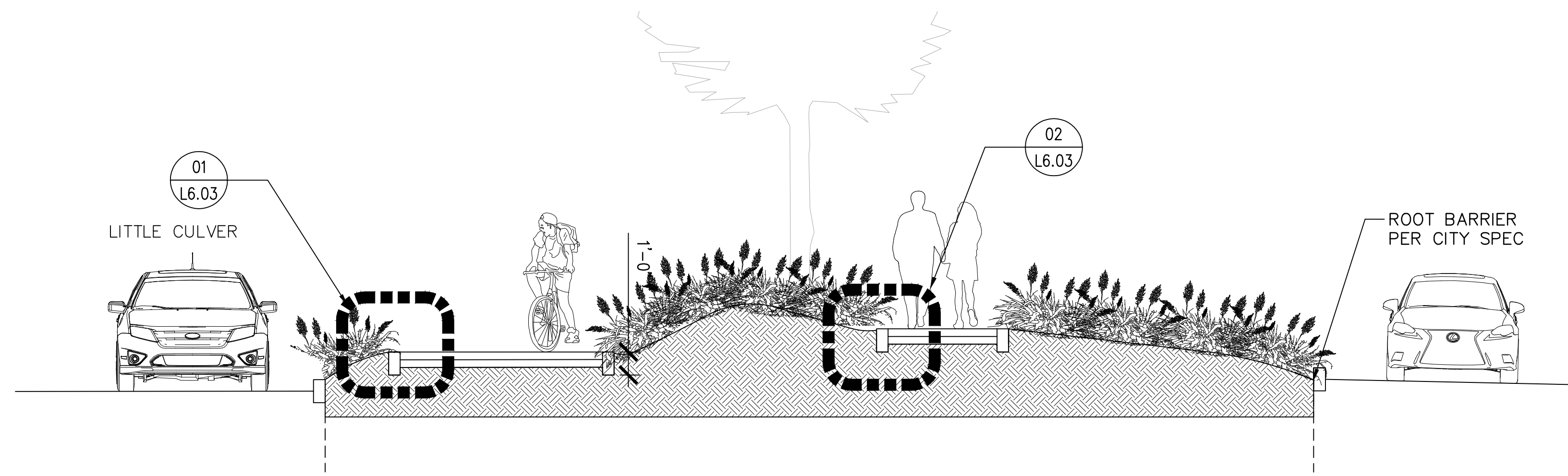


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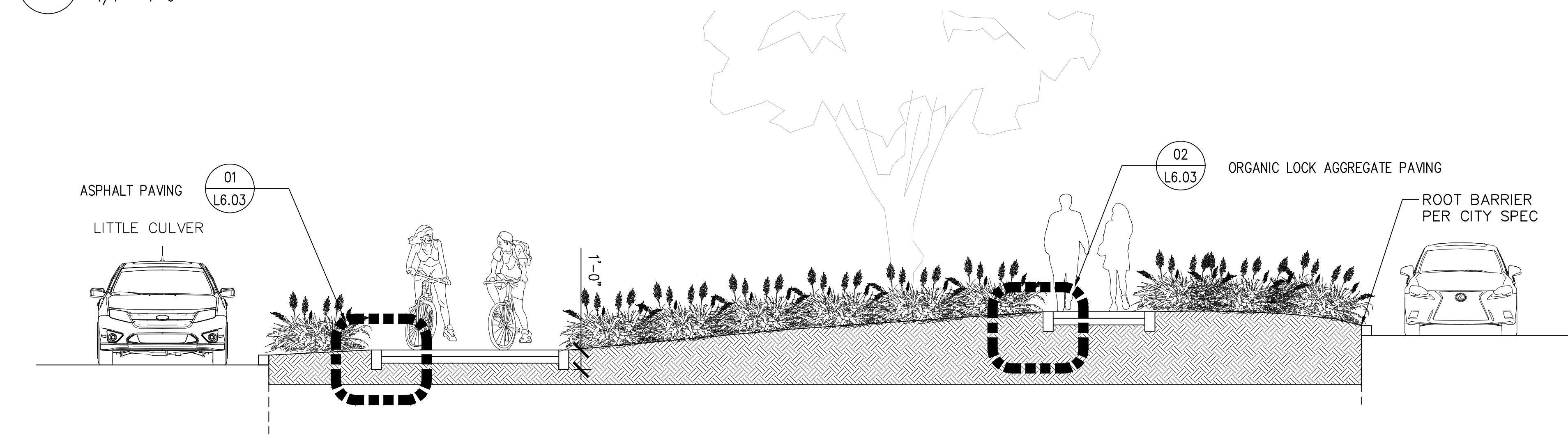
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 SHEET **L4.04**
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 Bar Measures 1 inch

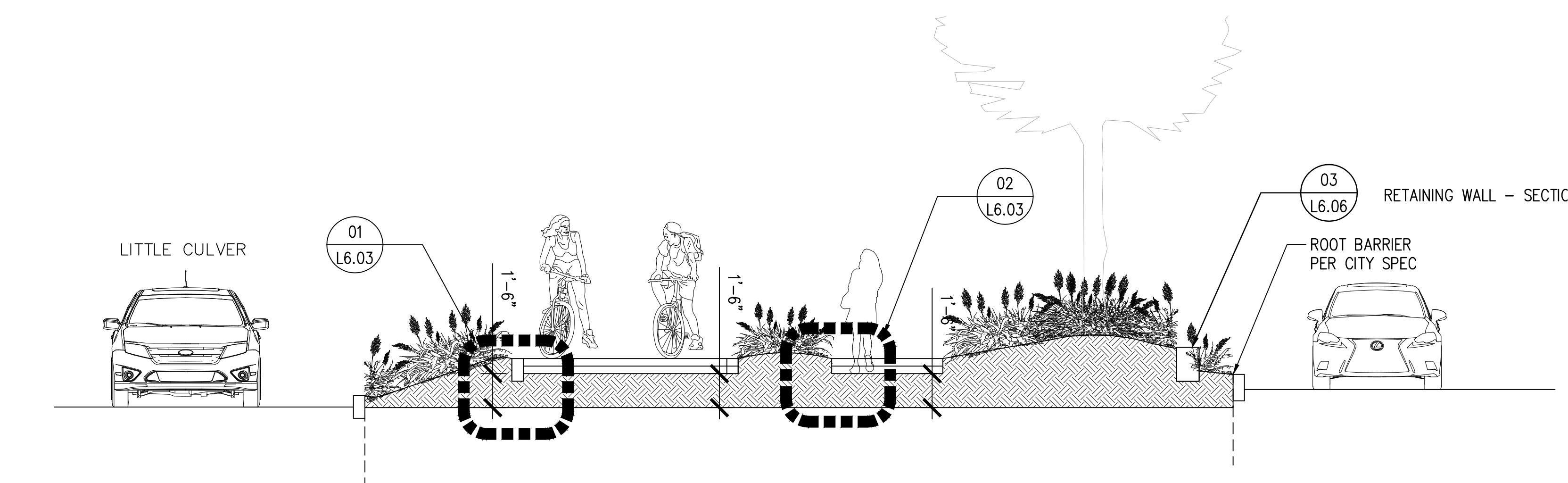
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03 SECTION THROUGH MEDIAN AT COMMONWEALTH AVENUE
1/4" = 1'-0"



02 SECTION THROUGH MEDIAN AT CENTER STREET
1/4" = 1'-0"

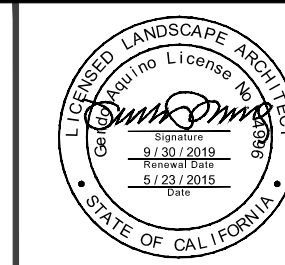
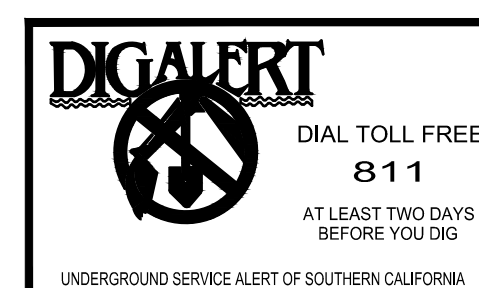


01 SECTION THROUGH MEDIAN AT ARVEE STREET
1/4" = 1'-0"

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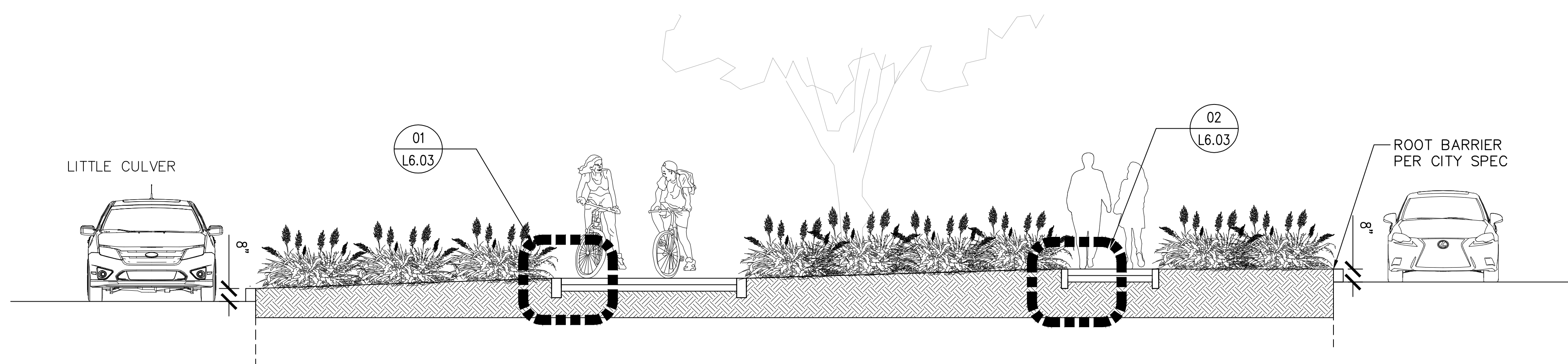
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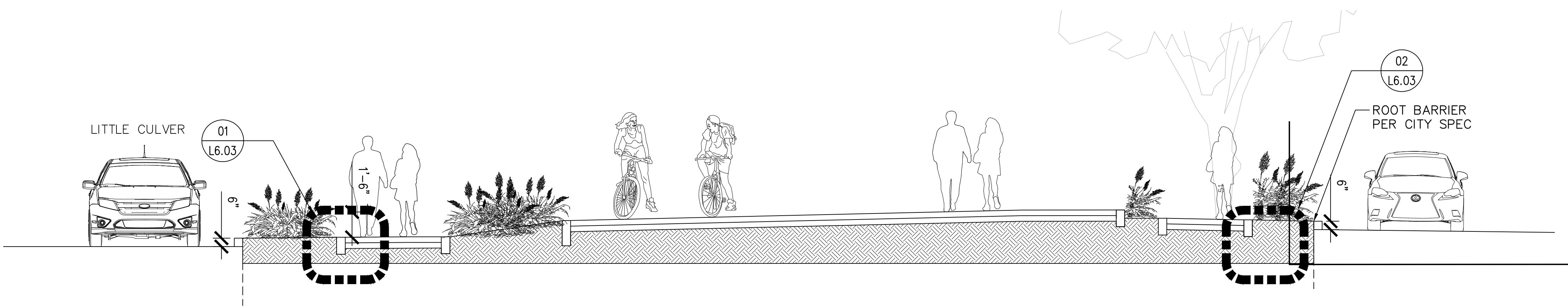
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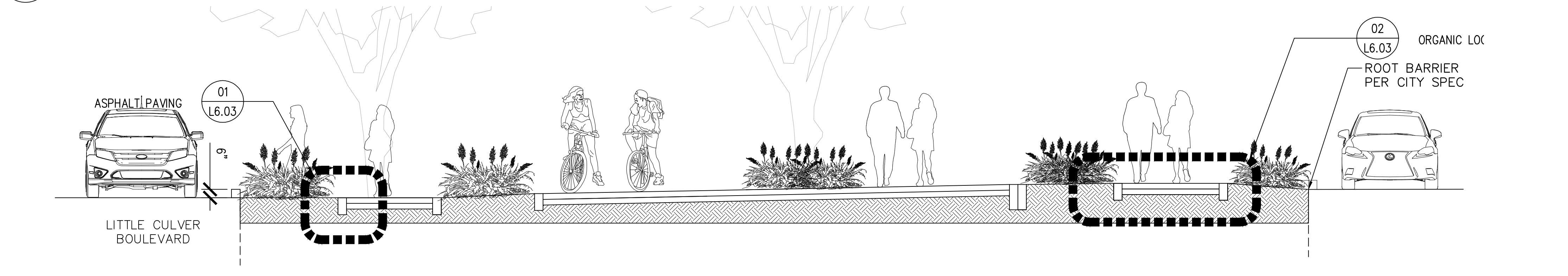
Bar Measures 1 inch



03 SECTION THROUGH MEDIAN AT TILDEN
1/4" = 1'-0"



02 SECTION THROUGH MEDIAN AT HURON AVENUE
1/4" = 1'-0"

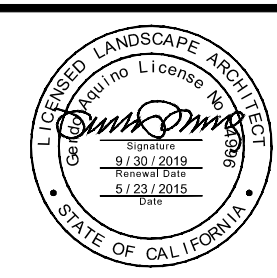
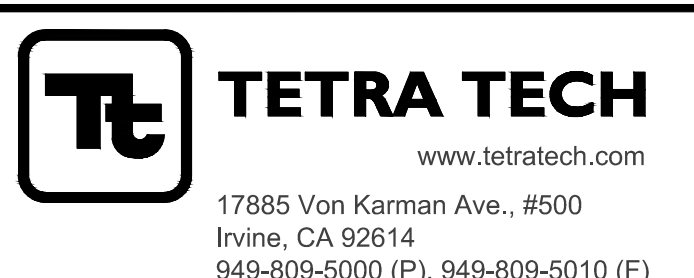
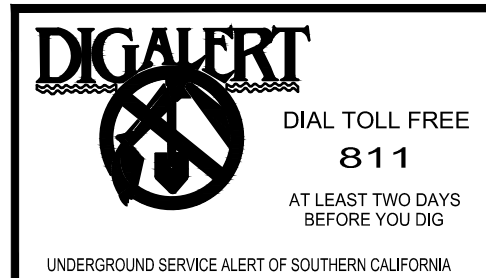


01 SECTION THROUGH MEDIAN AT HARTER AVENUE
1/4" = 1'-0"

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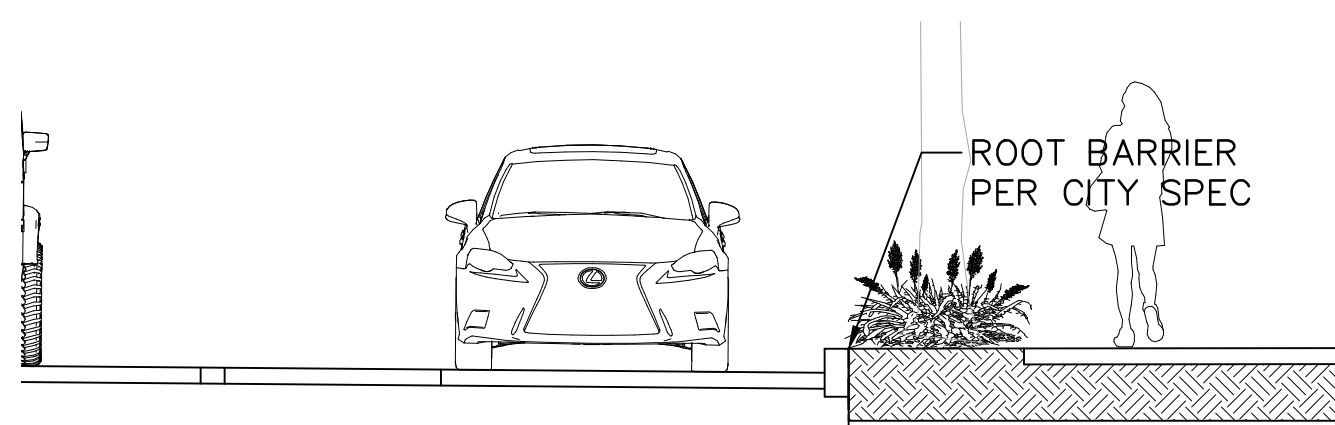
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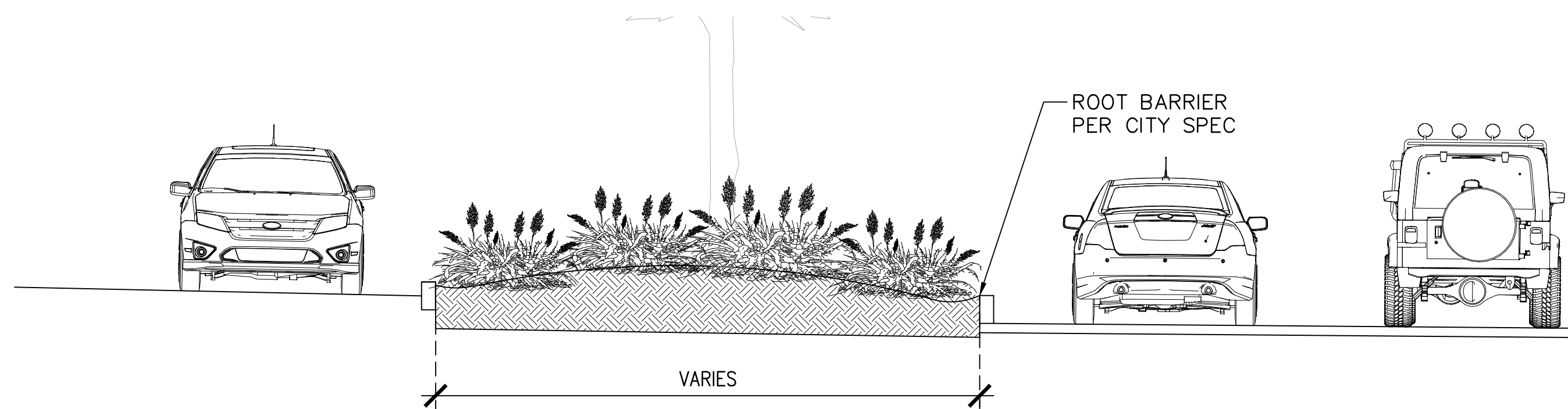
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Bar Measures 1 inch

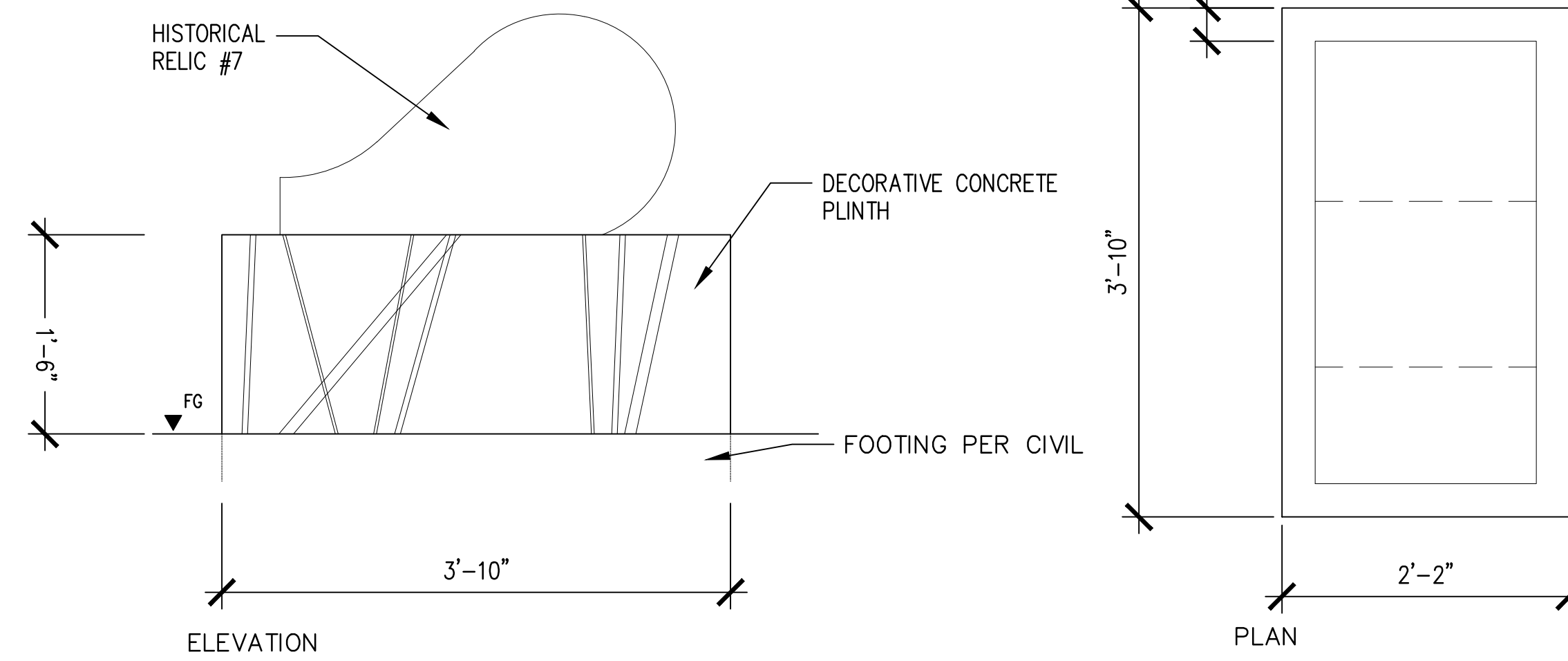
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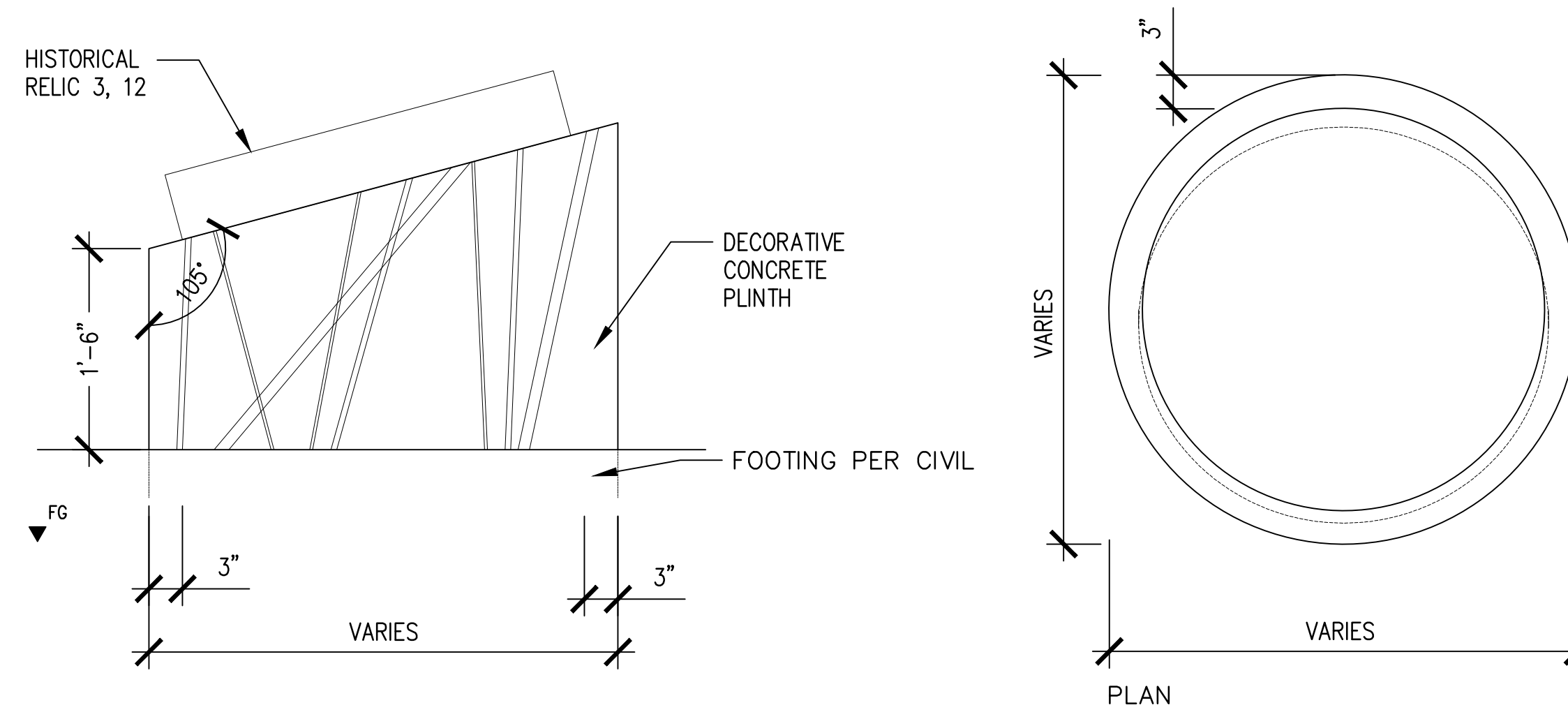
05 PARKWAY TYPICAL
1/4" = 1'-0"



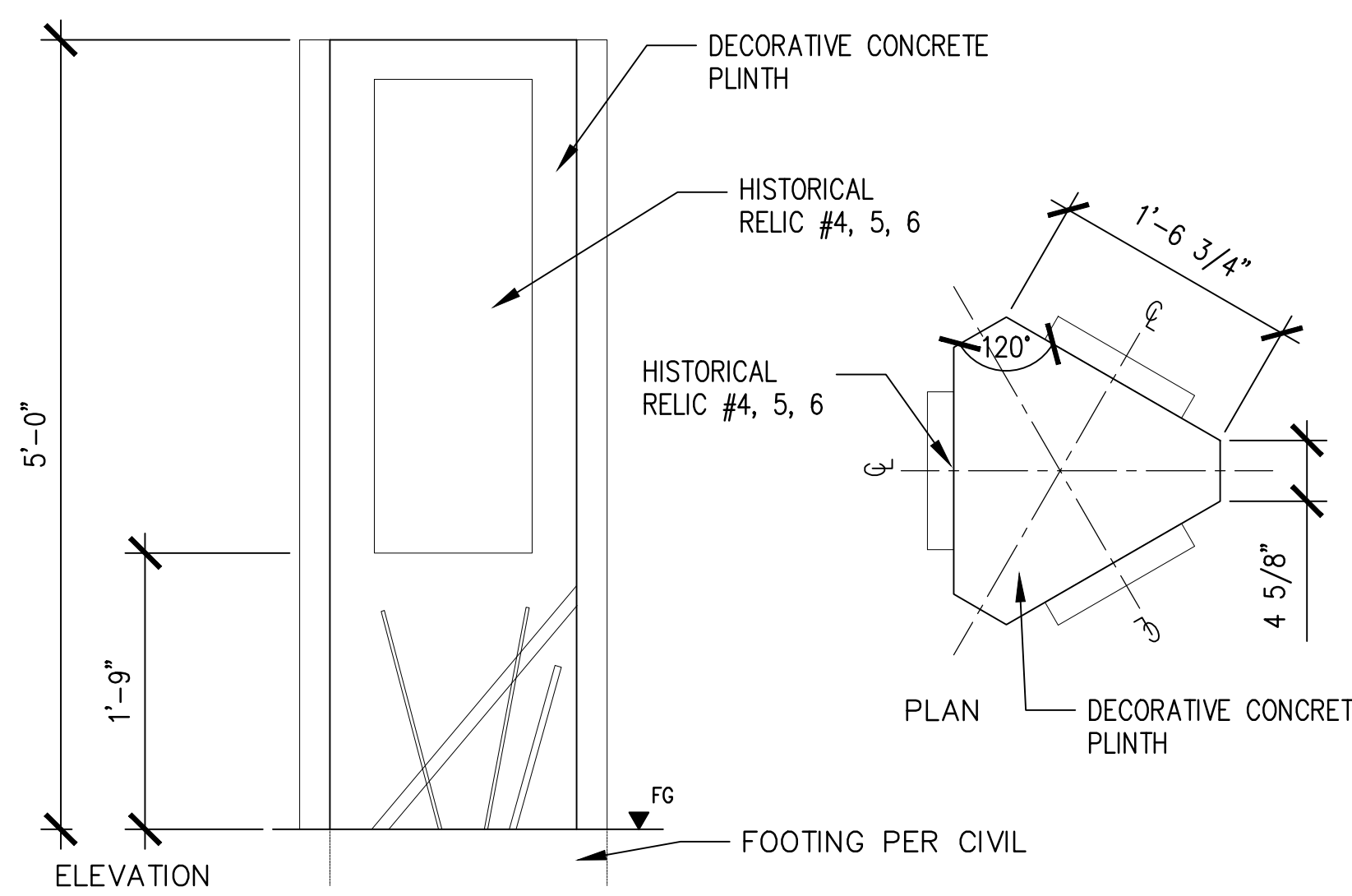
04 MEDIAN TYPICAL
1/4" = 1'-0"



03 CONCRETE PLINTH FOR RELIC R-7
1" = 1'-0"



02 CONCRETE PLINTH FOR RELICS R-3 AND R-12
1" = 1'-0"



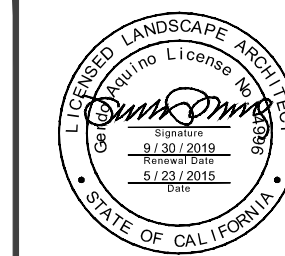
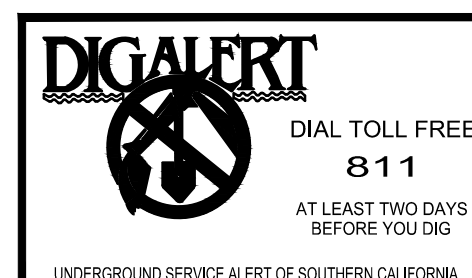
01 CONCRETE PLINTH FOR RELIC R-4 TYP. (FRIEZE)
1" = 1'-0"

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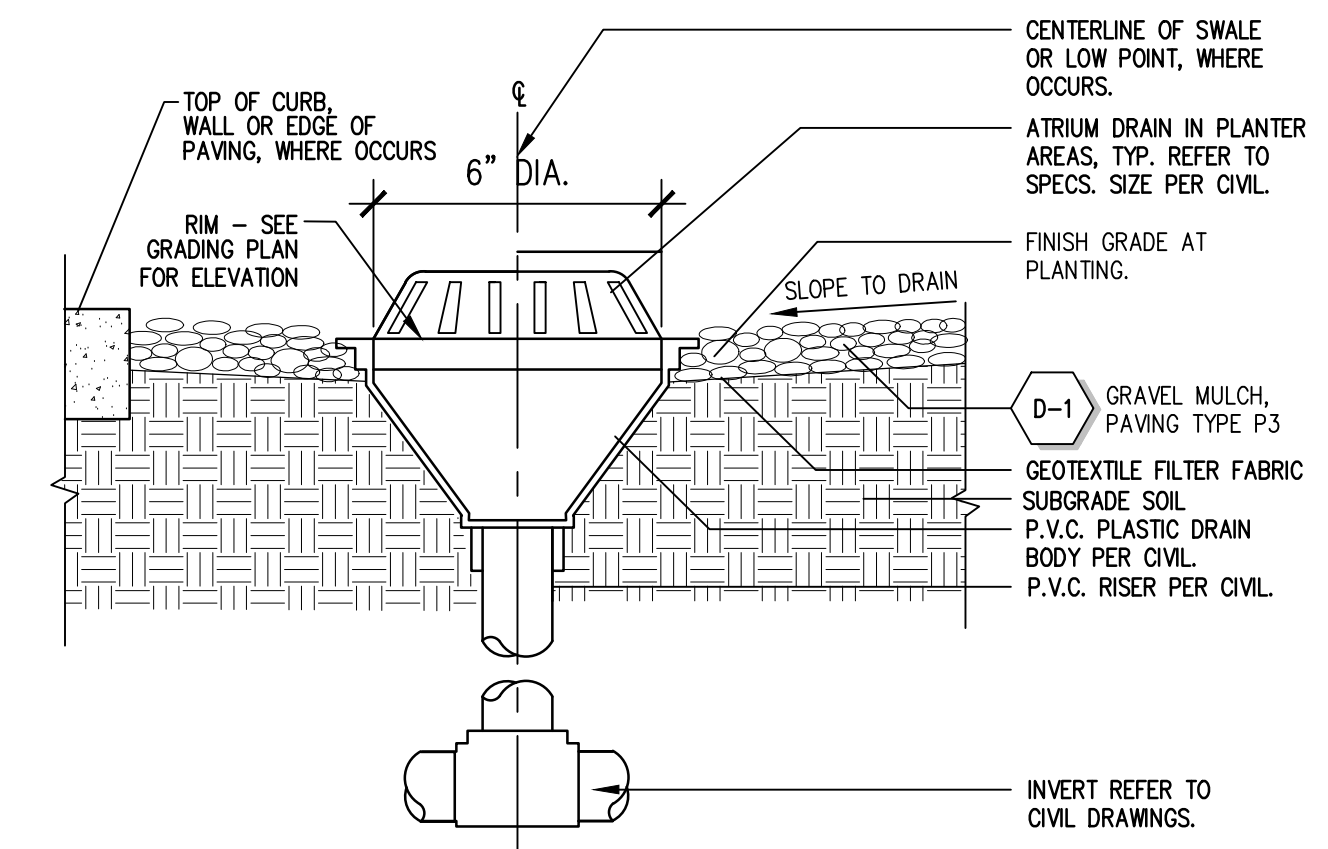
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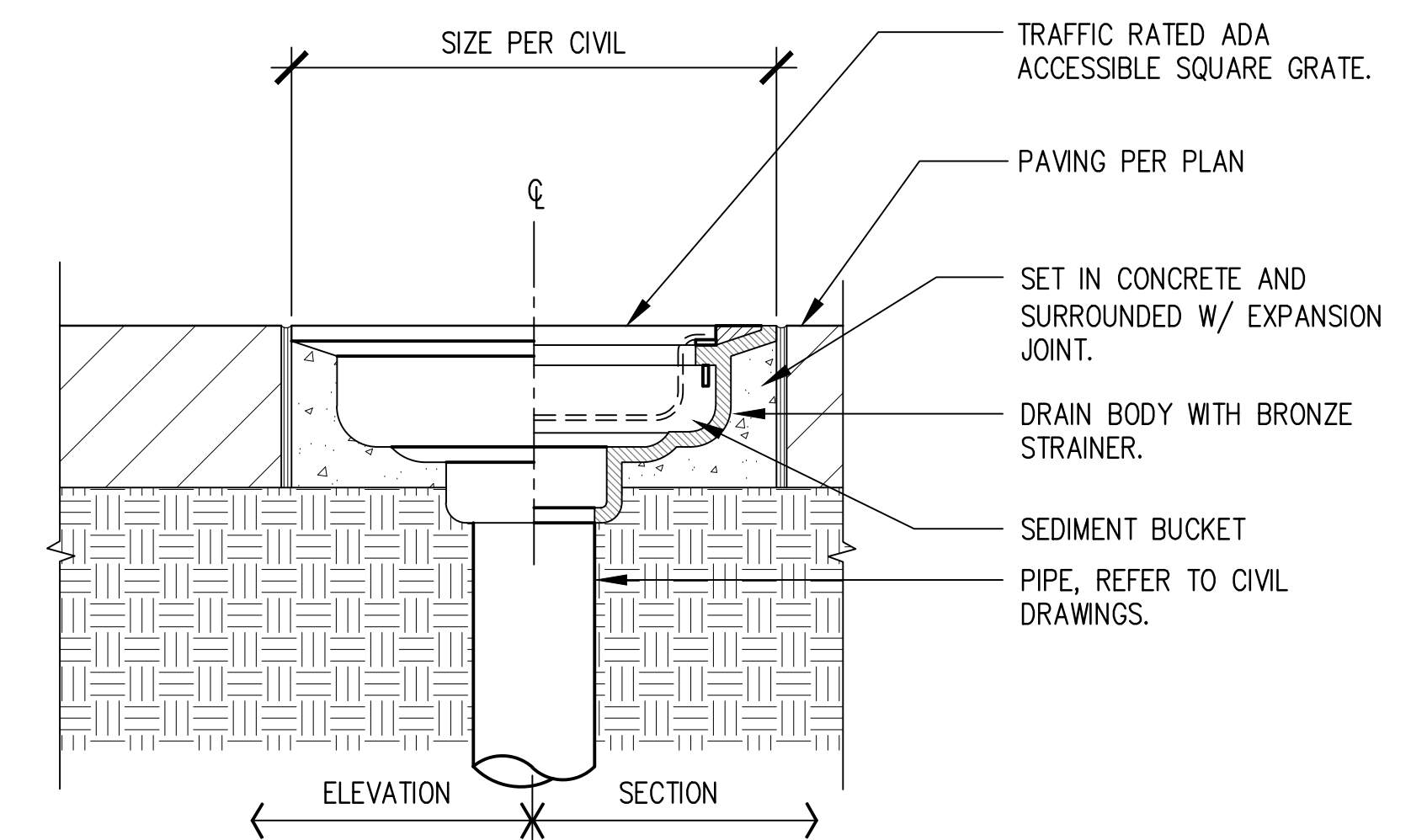
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02 AREA DRAIN IN PLANTING - SECTION
3" = 1'-0"

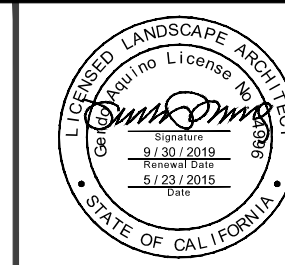
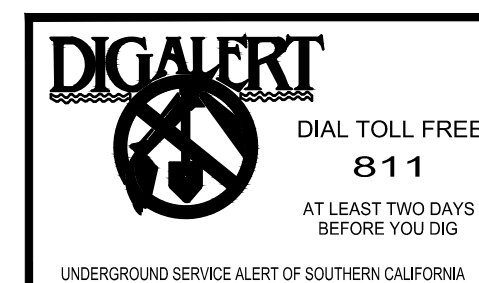


01 AREA DRAIN IN PAVING - SECTION
3" = 1'-0"

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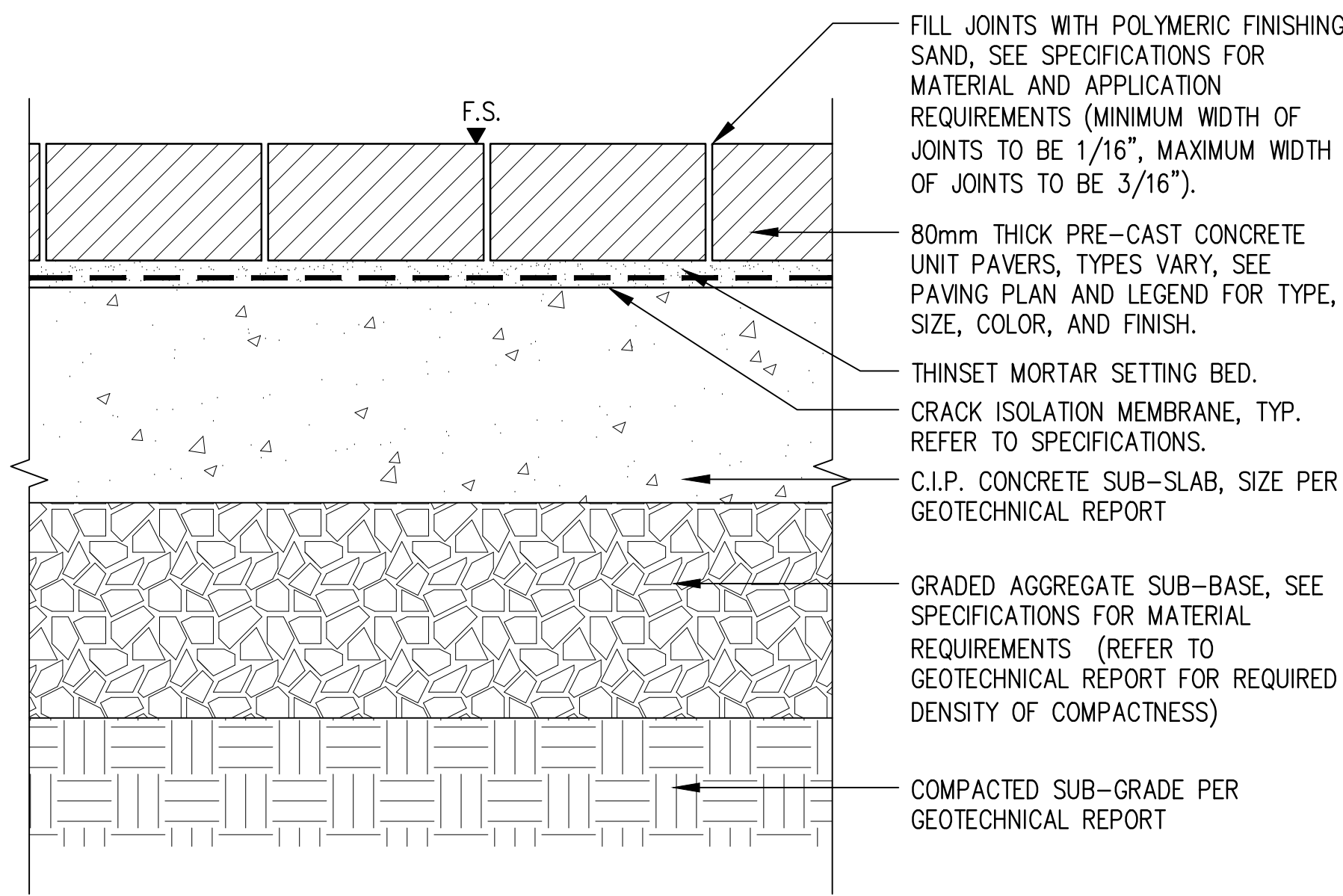
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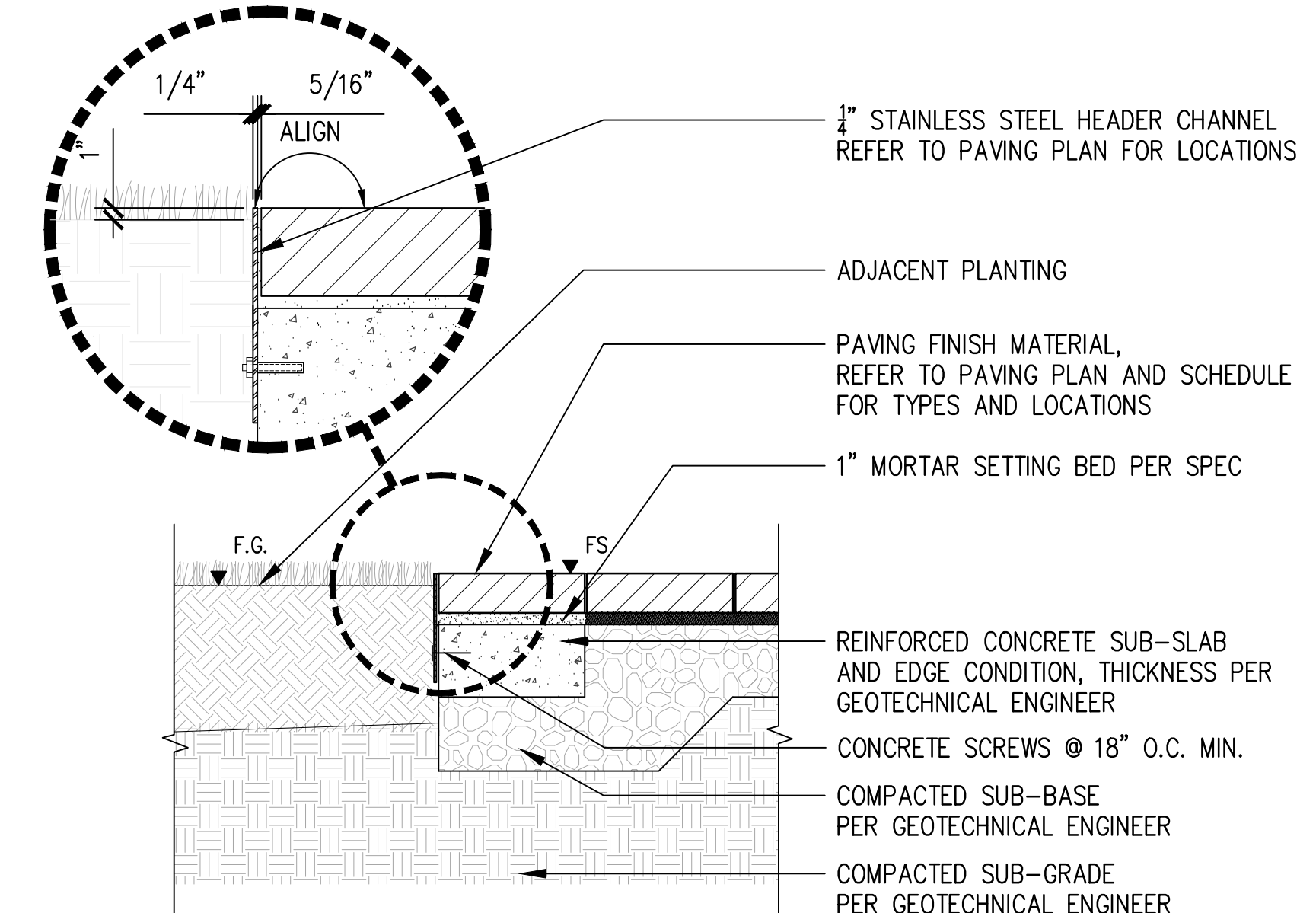
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SHEET 78 OF 85 SHEETS

Bar Measures 1 inch

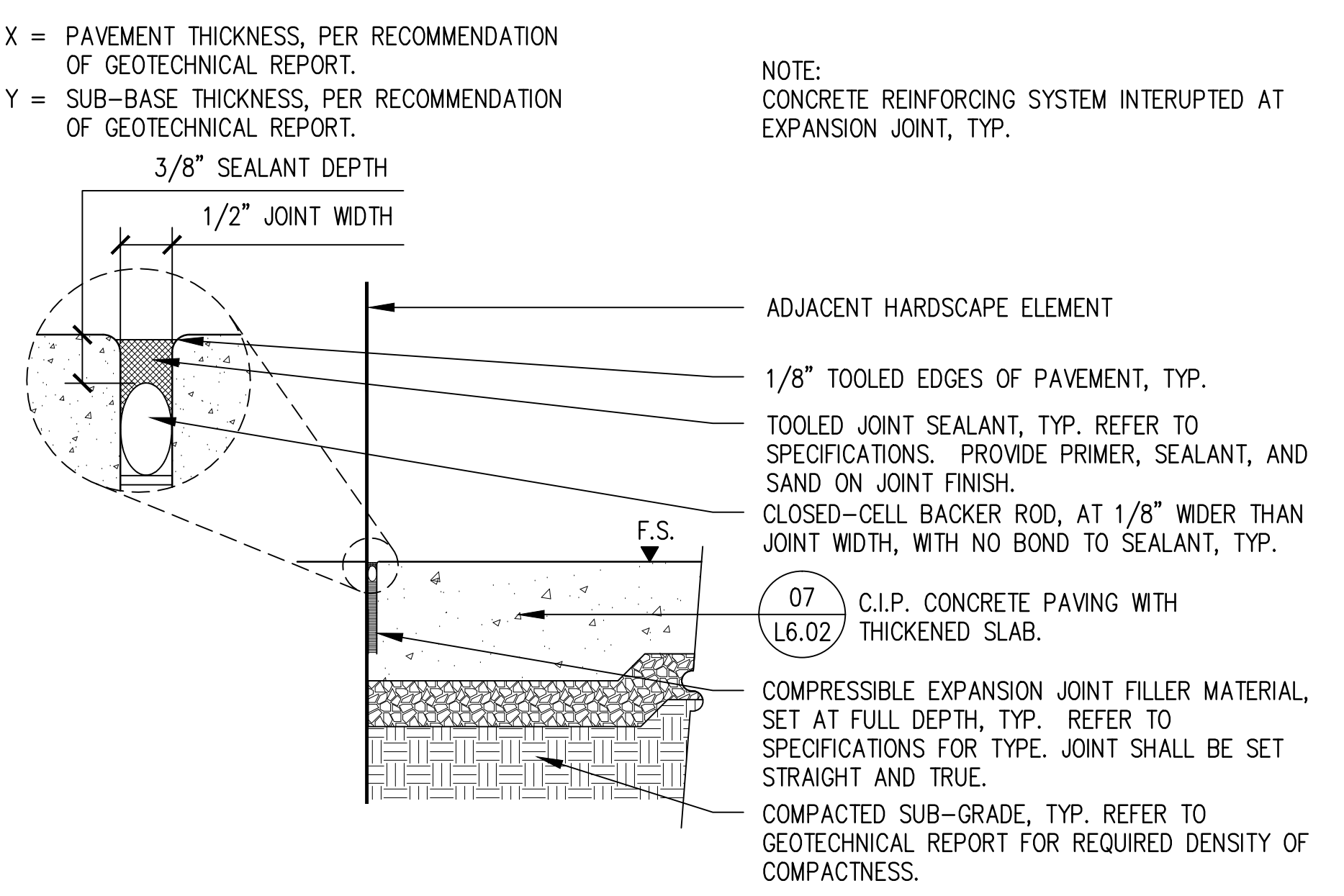
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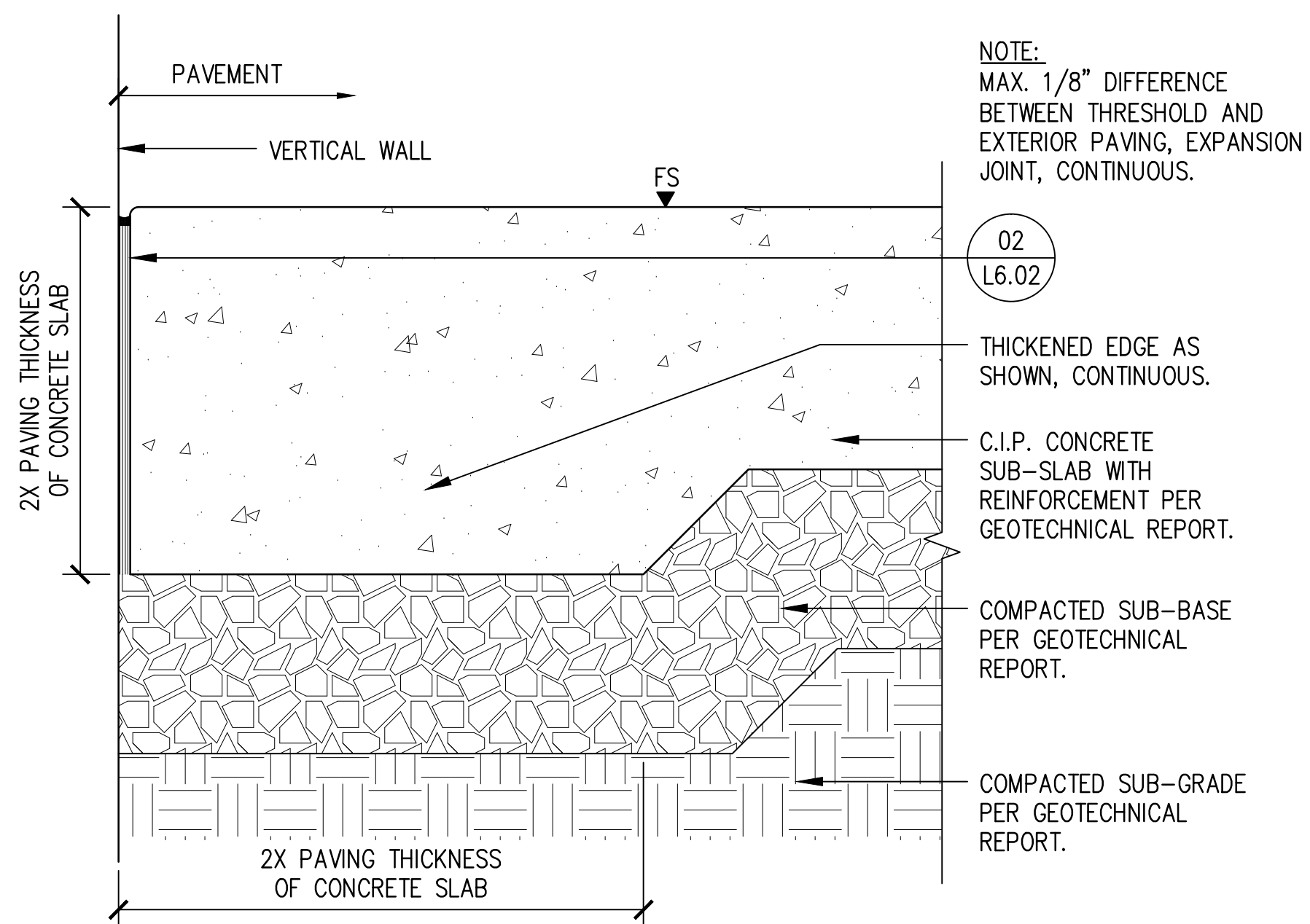
08 UNIT PAVERS - VEHICULAR SUB-BASE (ON-GRADE)
3" = 1'-0"



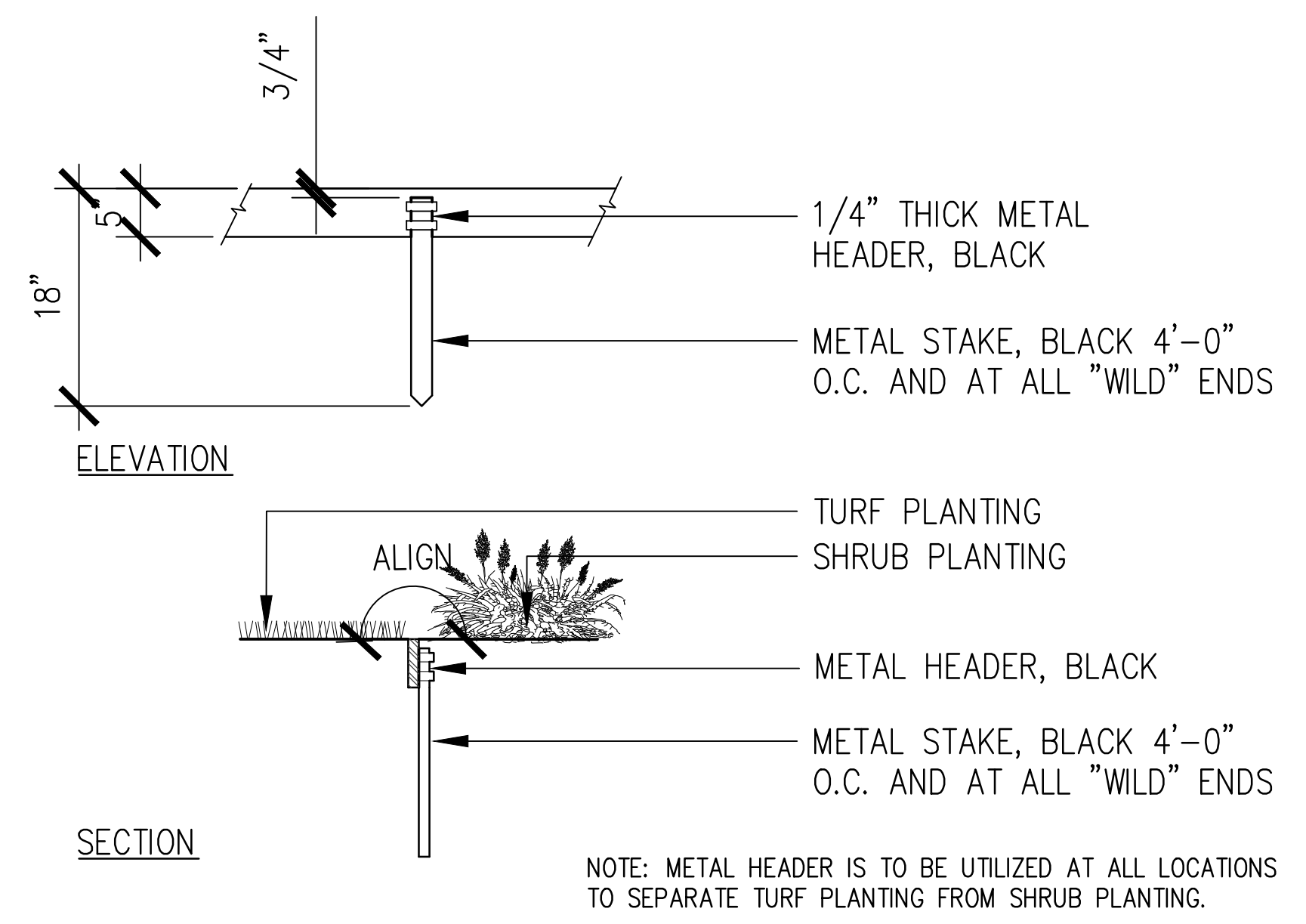
05 STEEL PAVING EDGE - ON GRADE
NOT TO SCALE



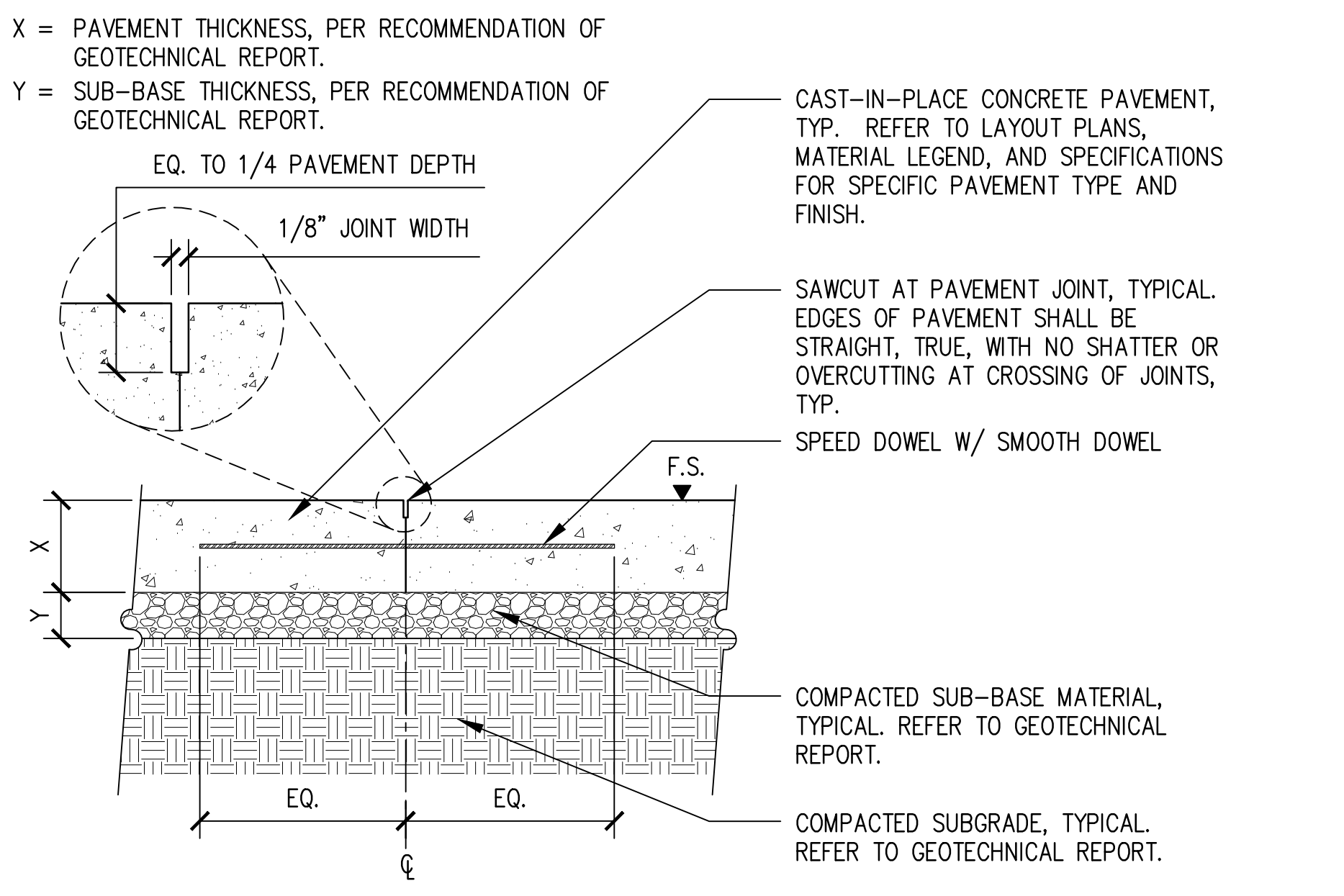
02 EXPANSION JOINT WITH SEALANT - SECTION 1SC
NOT TO SCALE



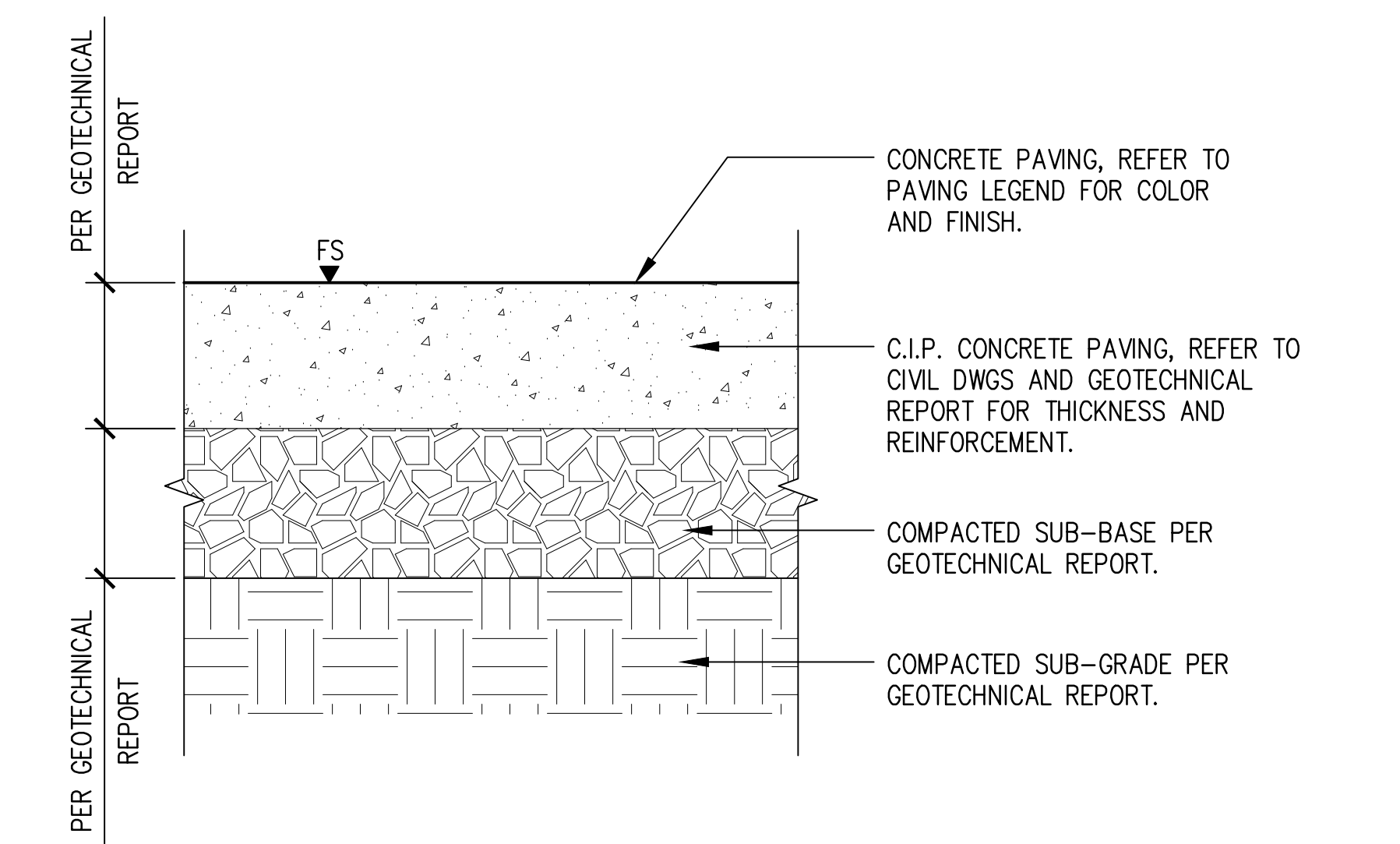
07 C.I.P. CONCRETE PAVING WITH THICKENED SLAB 4SC
3" = 1'-0"



04 STEEL HEADER
NOT TO SCALE

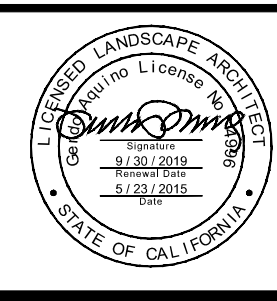
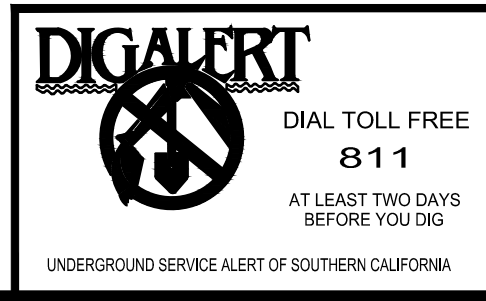


01 COLD CONSTRUCTION JOINT (SAWCUT) - SECTION 1SC
NOT TO SCALE



06 C.I.P. CONCRETE PAVING - SECTION 4SC
3" = 1'-0"

6/6/2019 2:56:26 PM - P:\TETTES801\CULVER WIDENING PROJECT\4 DRAWINGS\GRAPHICS\AUTOCAD\SHEETS\L6.02 PAVING DETAILS.DWG - ROMAN CHIU



PLANS PREPARED UNDER THE SUPERVISION OF:

Jason Fusssel
JASON FUSSEL RCE-70879 EXP. 06/30/19 DATE

PROJECT NUMBER # PZ-480

DRAWING NO.

60% CONSTRUCTION DOCUMENTS	2018/09/13			
75% CONSTRUCTION DOCUMENTS	2018/11/02			
90% CONSTRUCTION DOCUMENTS	2019/06/23			
NO.	REVISION	BY	APPR.	DATE

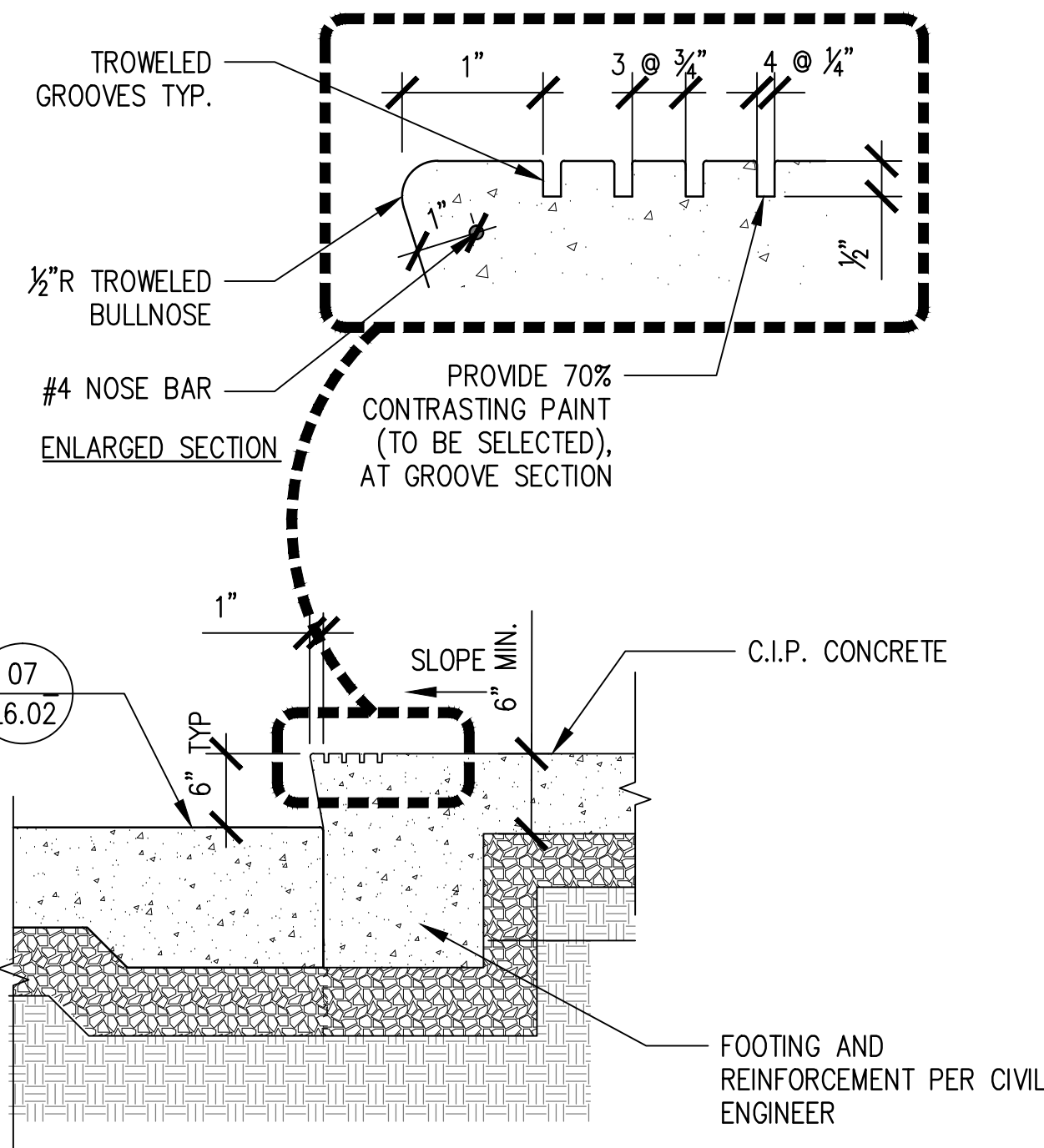


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CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

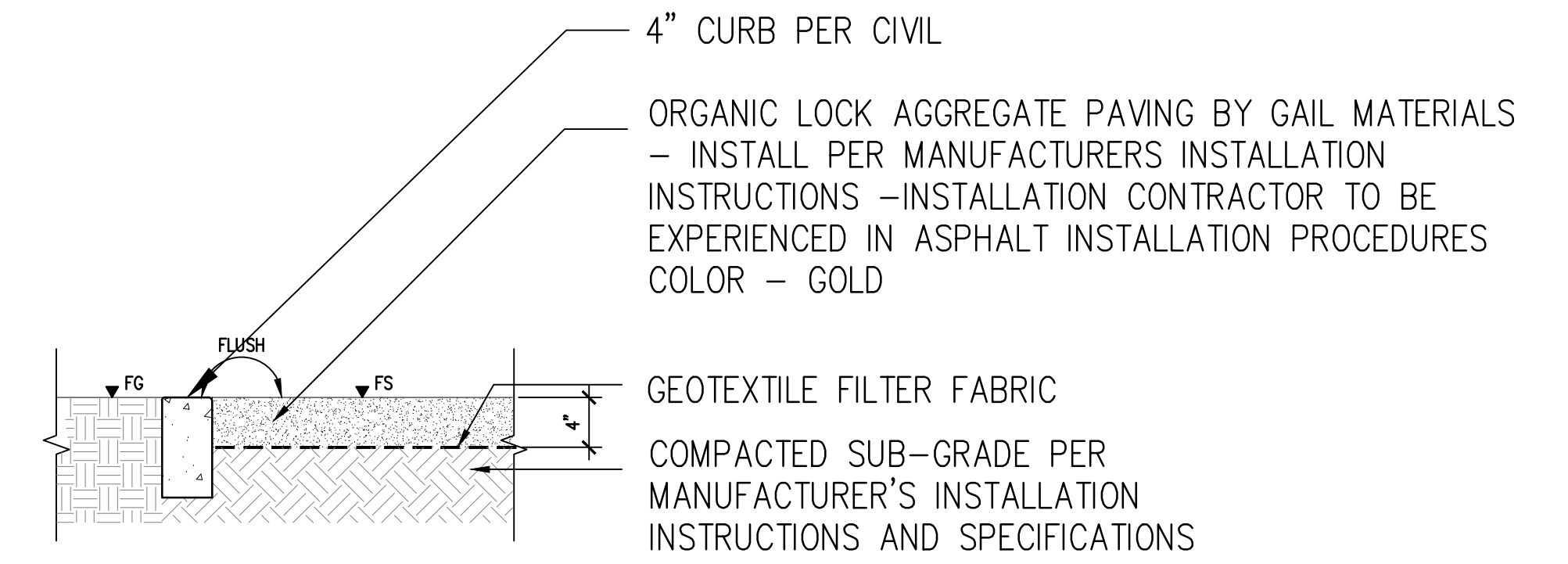
PAVING DETAILS	REVIEWED BY AND APPROVED BY SEE TITLE SHEET	SHEET L6.02 SHEET 79 OF 85 SHEETS
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5049-212

Bar Measures 1 inch

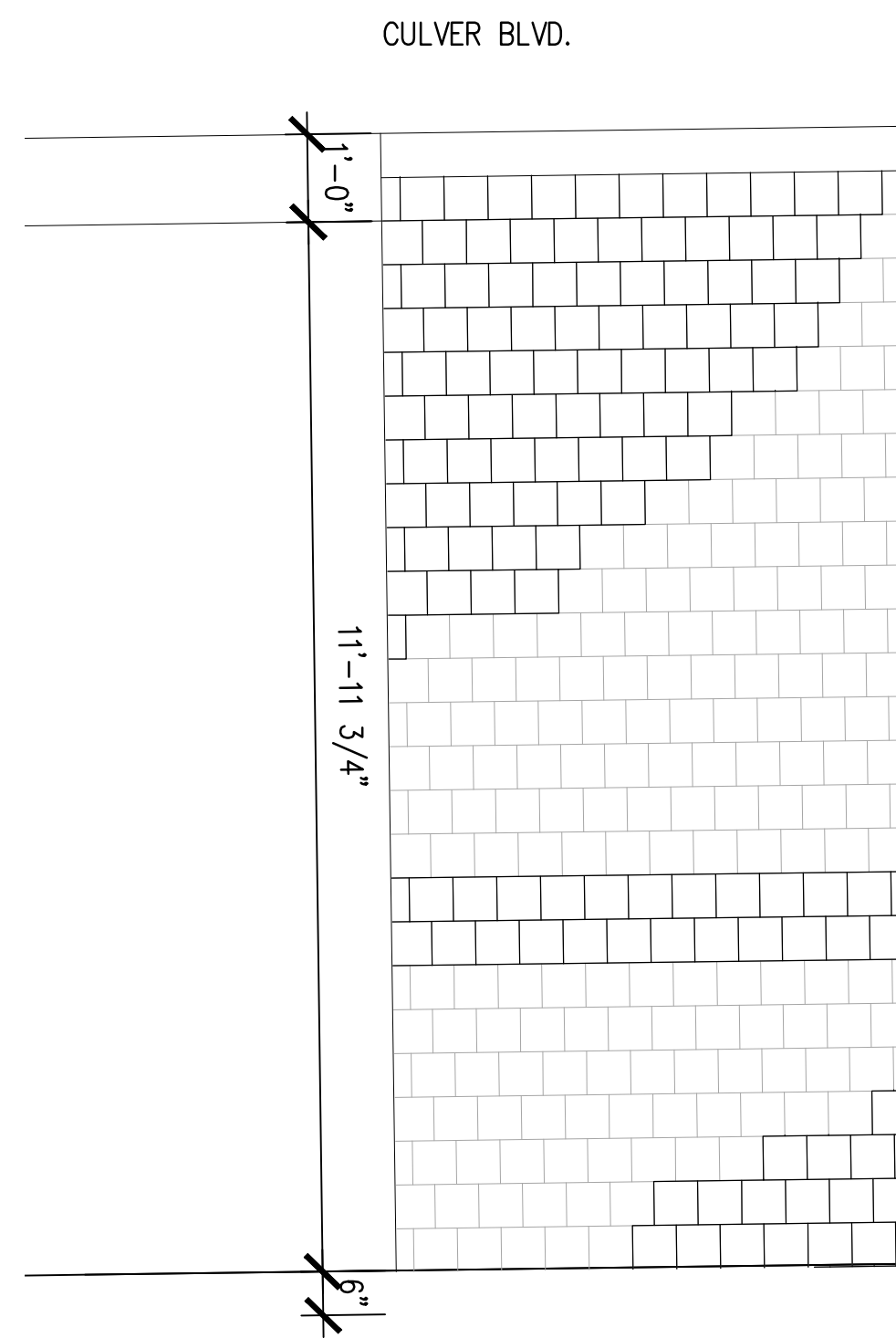


05 STEP DETAIL
1" = 1'-0"

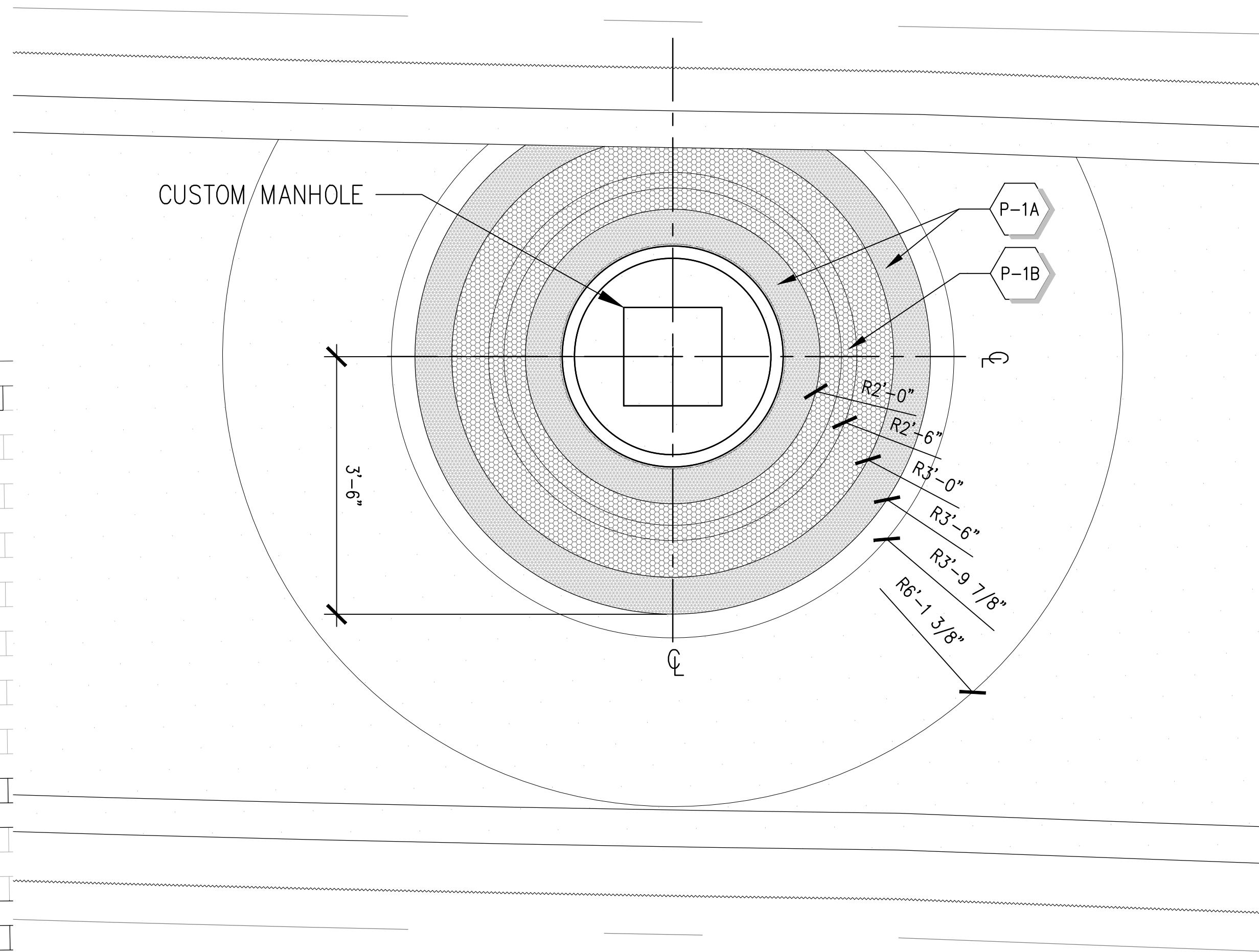


02 ORGANIC LOCK AGGREGATE PAVING
1" = 1'-0"

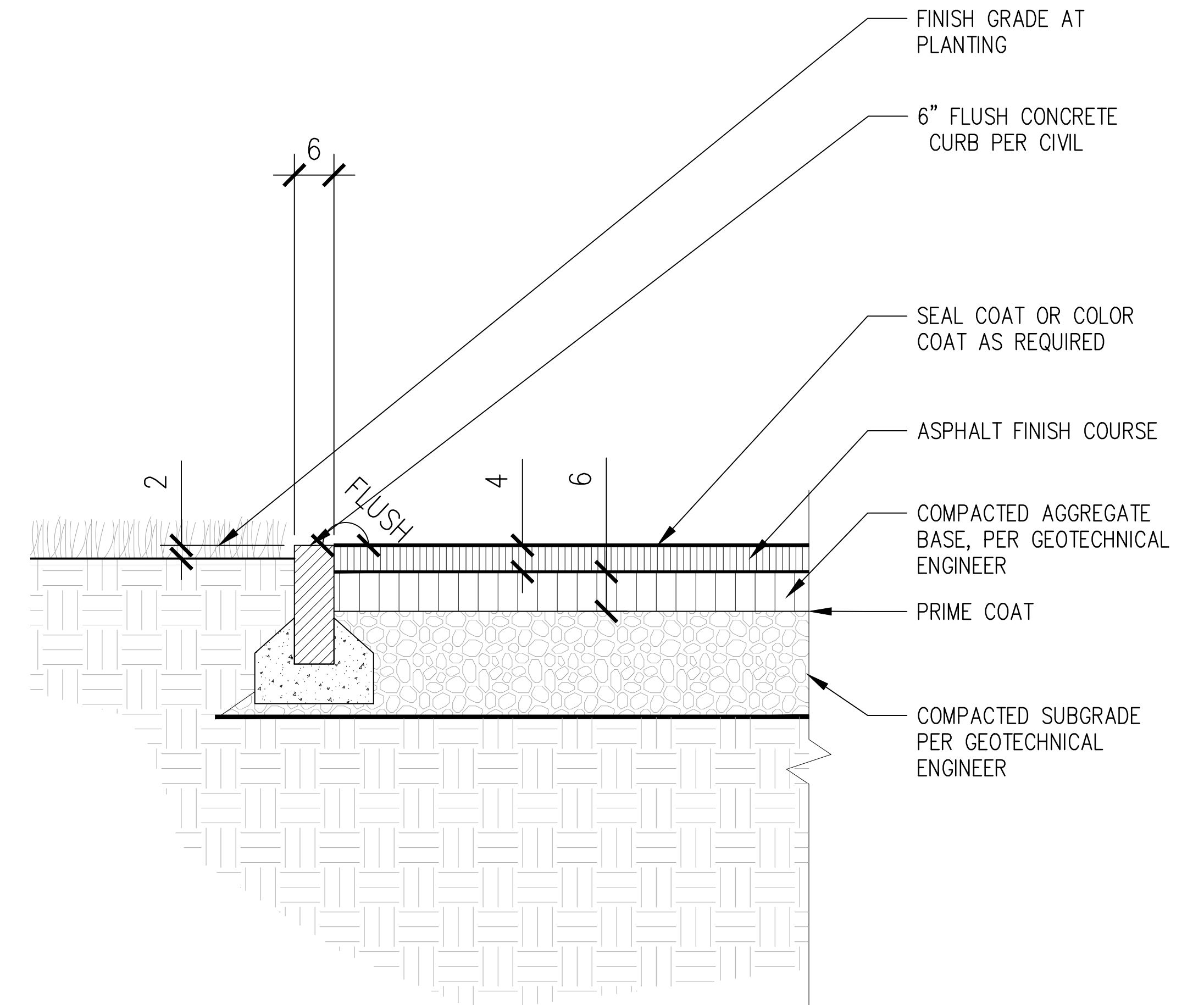
GAIL MATERIALS CONTACT:
DAVID DZWILEWSKI
951.667.6106



04 SOUTH SIDE BUFFER
1/2" = 1'-0"



03 CUSTOM MANHOLE IN PATHWAY
3/4" = 1'-0"



01 ASPHALT PAVING
3/4" = 1'-0"

6/6/2019 2:57:01 PM - P:\TETRA\801 CULVER WIDENING PROJECT\4 DRAWINGS\GRAPHICS\AUTOCAD\SHEETS\L6.03 PAVING DETAILS.DWG - ROMAN CHIU

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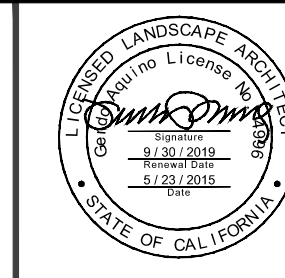
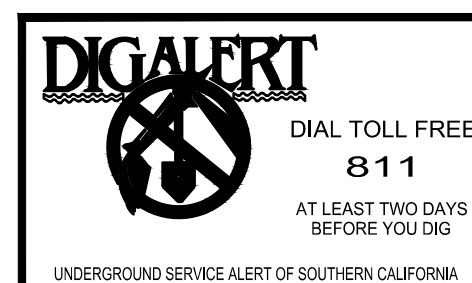
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SHEET
L6.03
SHEET 80 OF 85 SHEETS

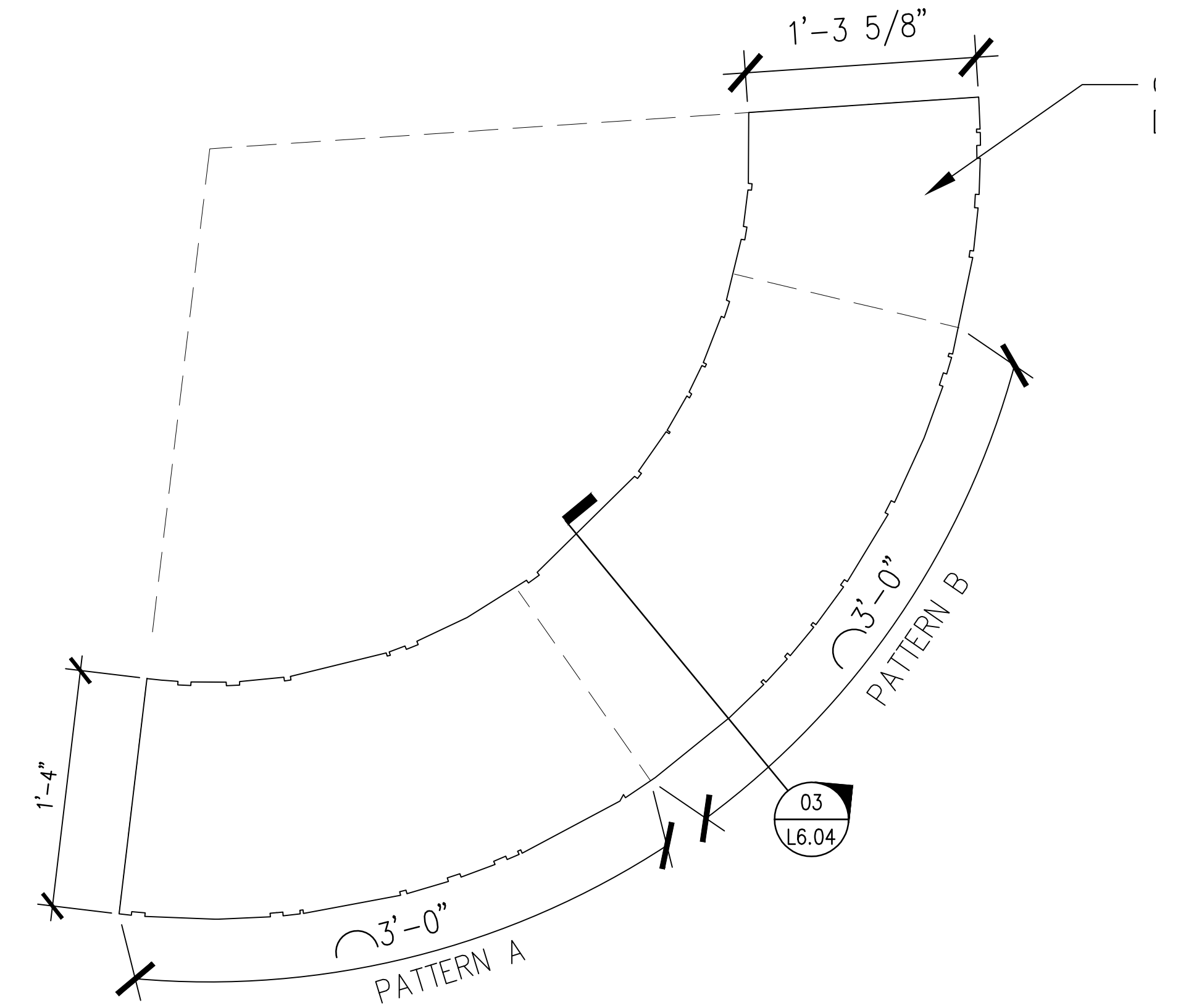
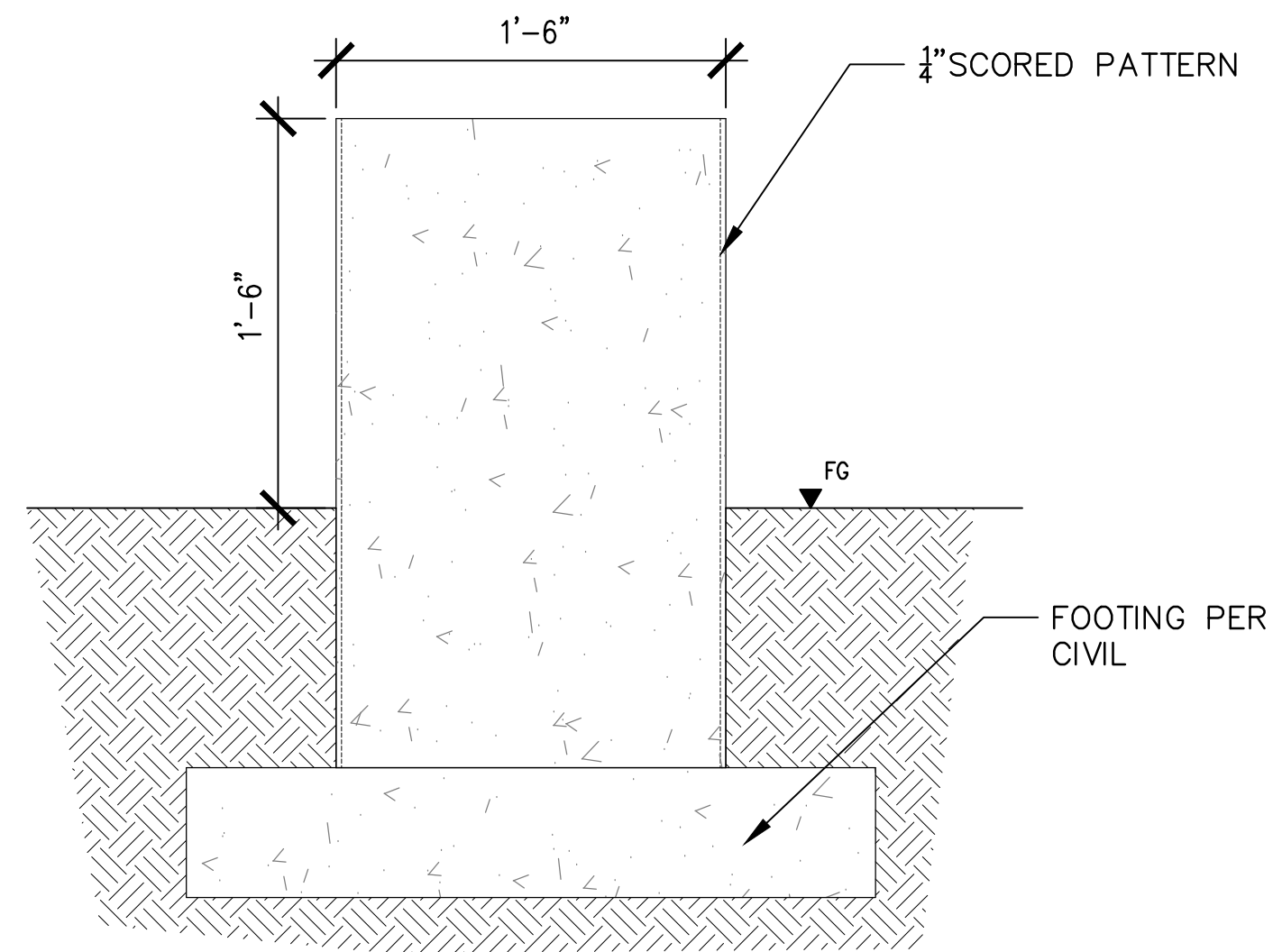
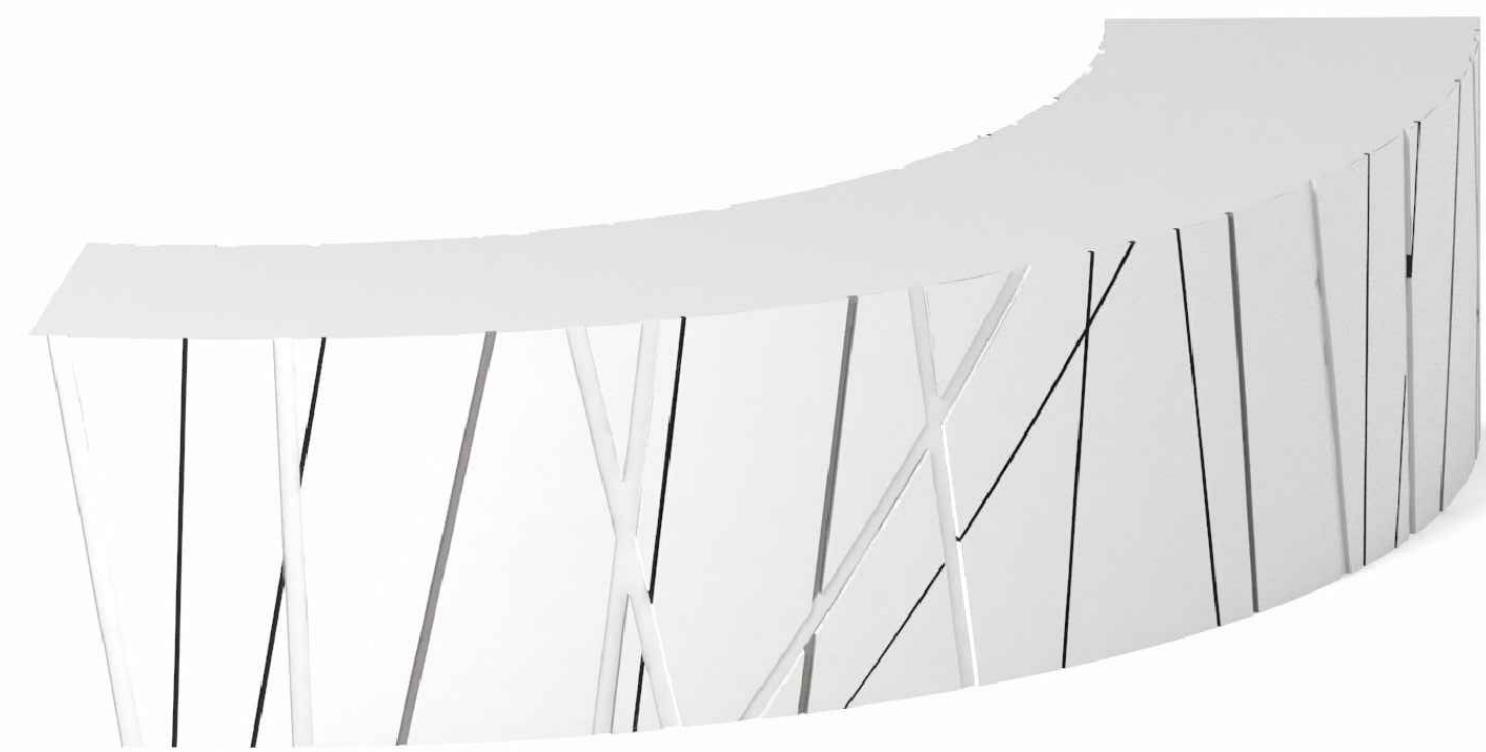


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JASON FUSSEL RCE-70879 EXP. 06/30/19 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

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	75% CONSTRUCTION DOCUMENTS			2018/11/02
	90% CONSTRUCTION DOCUMENTS			2019/05/23

Bar Measures 1 inch

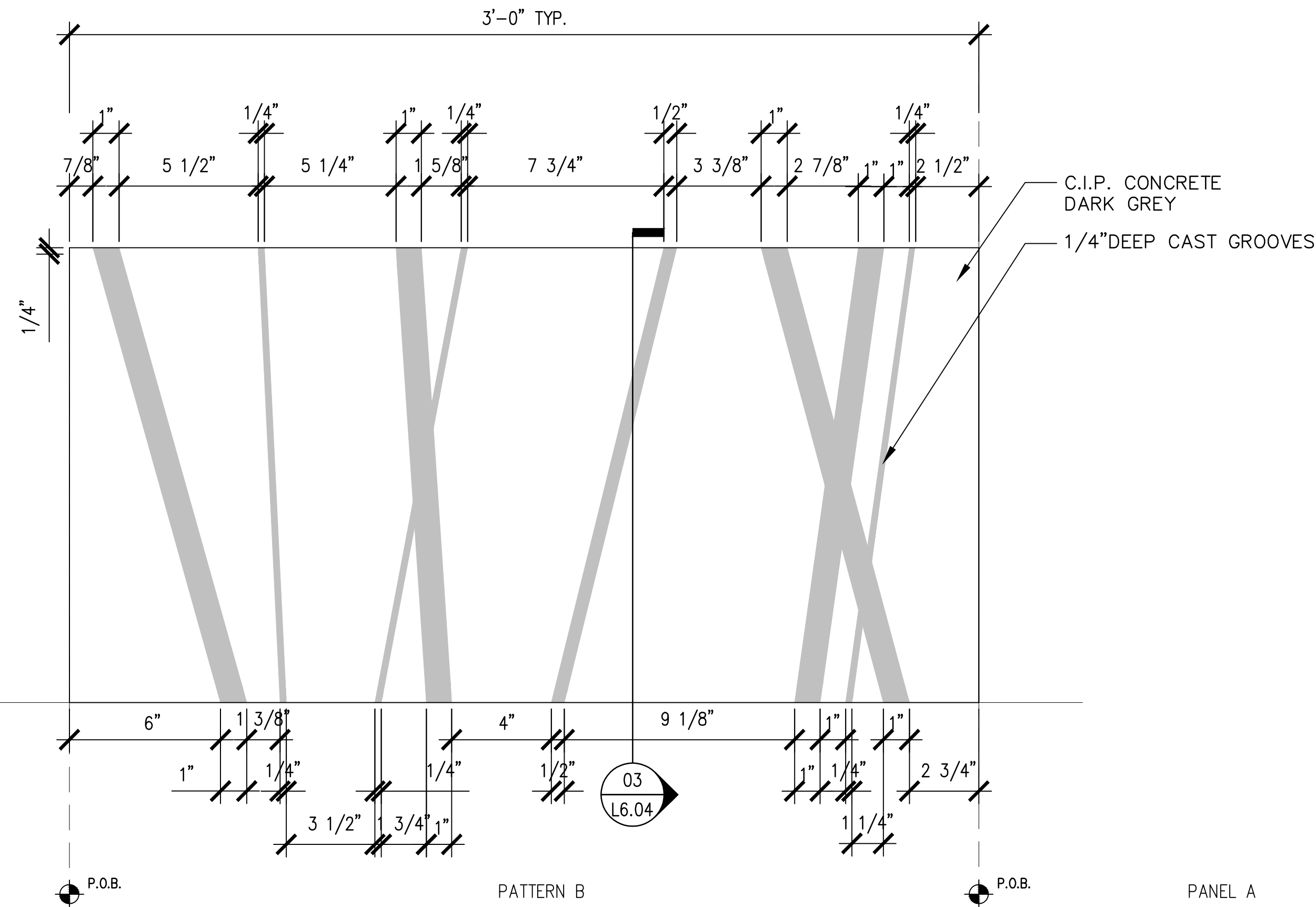
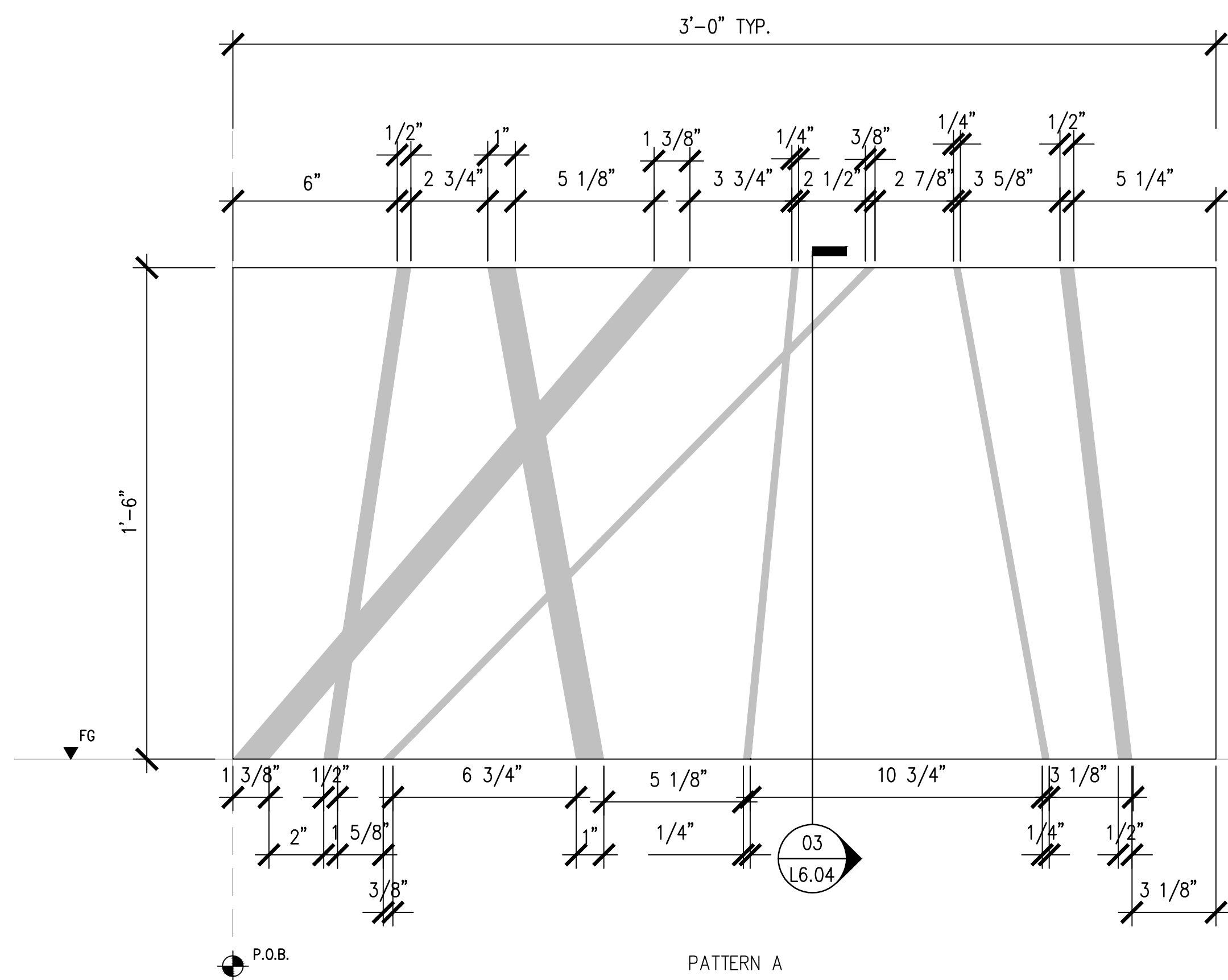
5049-212



04 PATTERN BENCH - CIRCULAR AXON
1 1/2" = 1'-0"

03 PATTERN BENCH - SECTION
1 1/2" = 1'-0"

02 PATTERN BENCH - PLAN
1 1/2" = 1'-0"



NOTES:
CONTRACTOR TO PROVIDE MOCK-UP FOR APPROVAL BY LANDSCAPE ARCHITECT

01 BENCH PATTERN ELEVATION TYP.
3" = 1'-0"

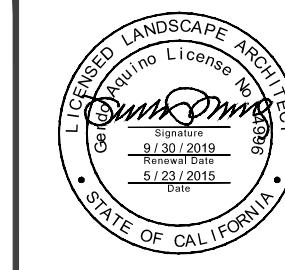
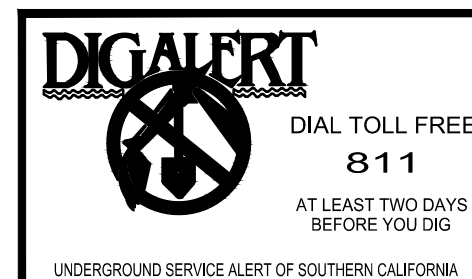
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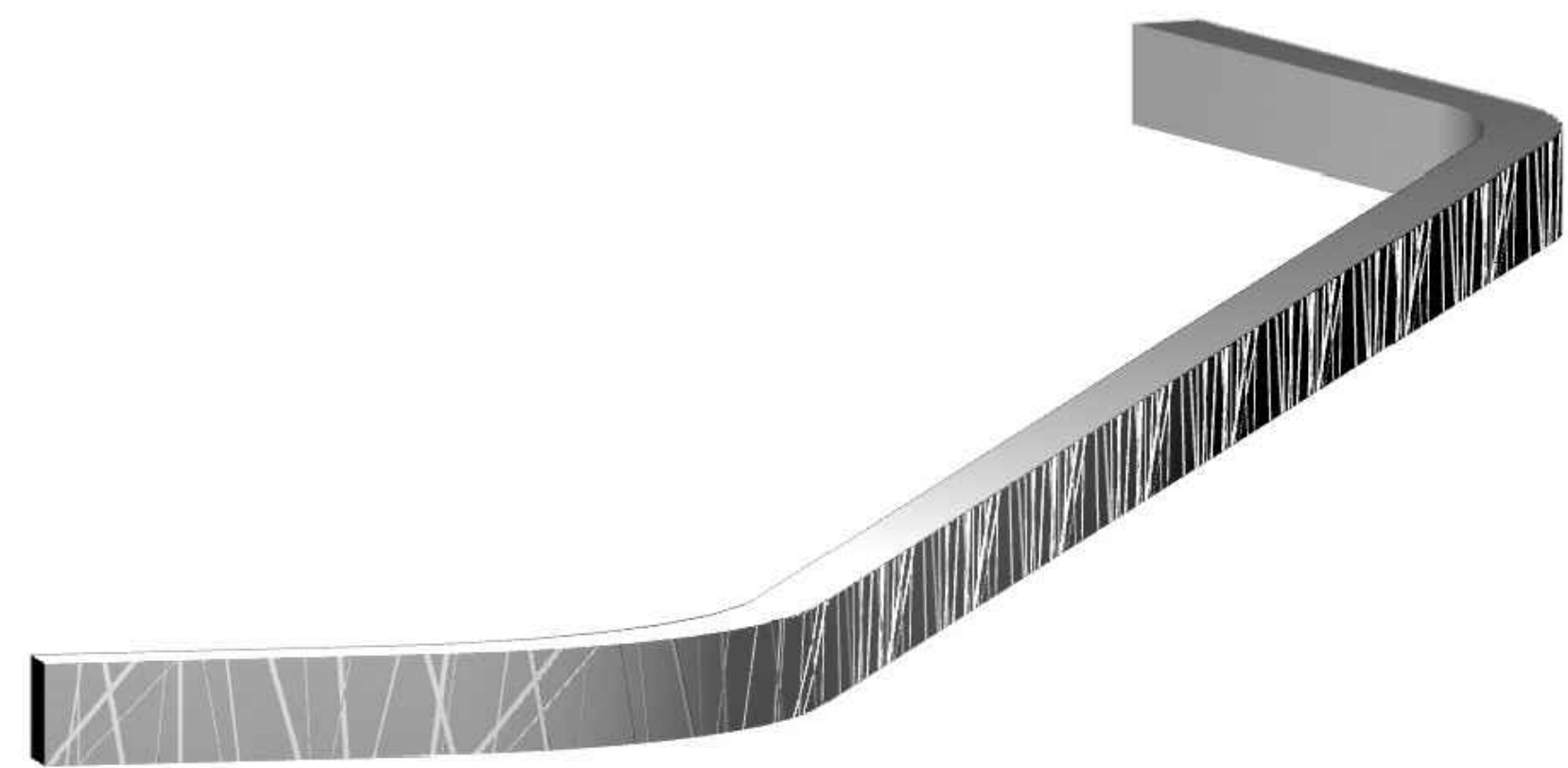
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SHEET
L6.04
SHEET 81 OF 85 SHEETS



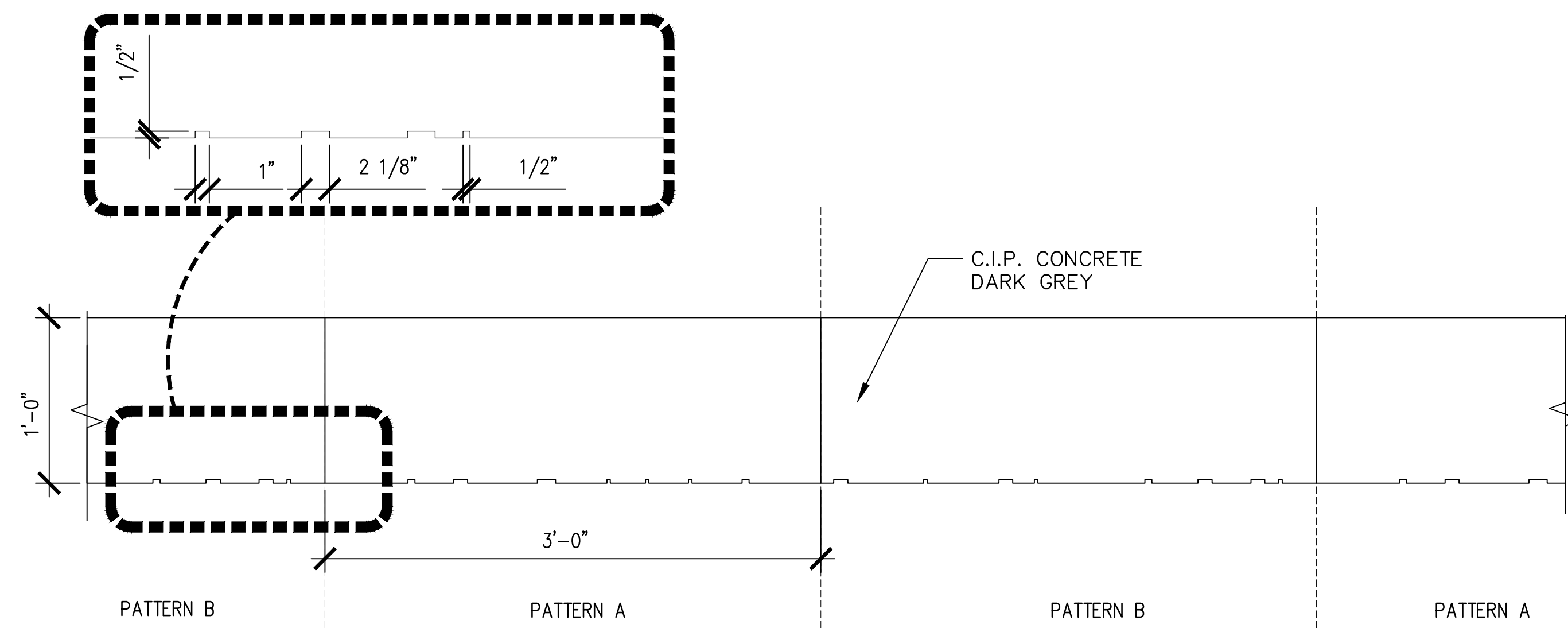
PLANS PREPARED UNDER THE SUPERVISION OF:
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DRAWING NO.

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75% CONSTRUCTION DOCUMENTS	2018/11/02			
90% CONSTRUCTION DOCUMENTS	2019/05/23			
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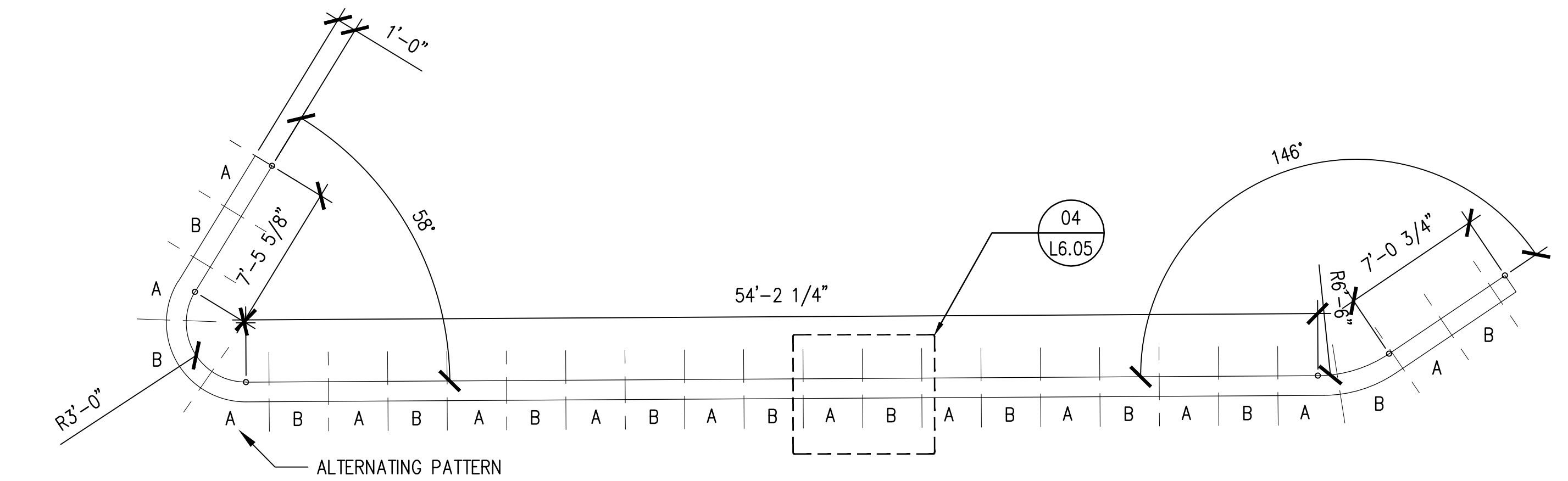
NOTE:
PERSPECTIVE RENDERING FOR REFERENCE ONLY

05 RETAINING WALL - PERSPECTIVE
1 1/2" = 1'-0"

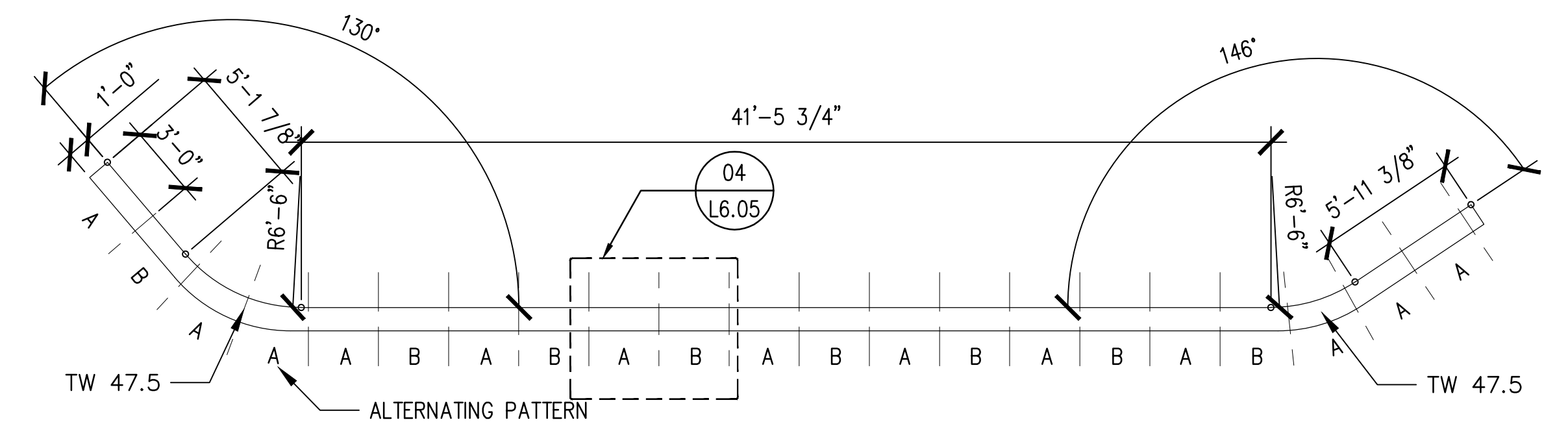


PLAN VIEW

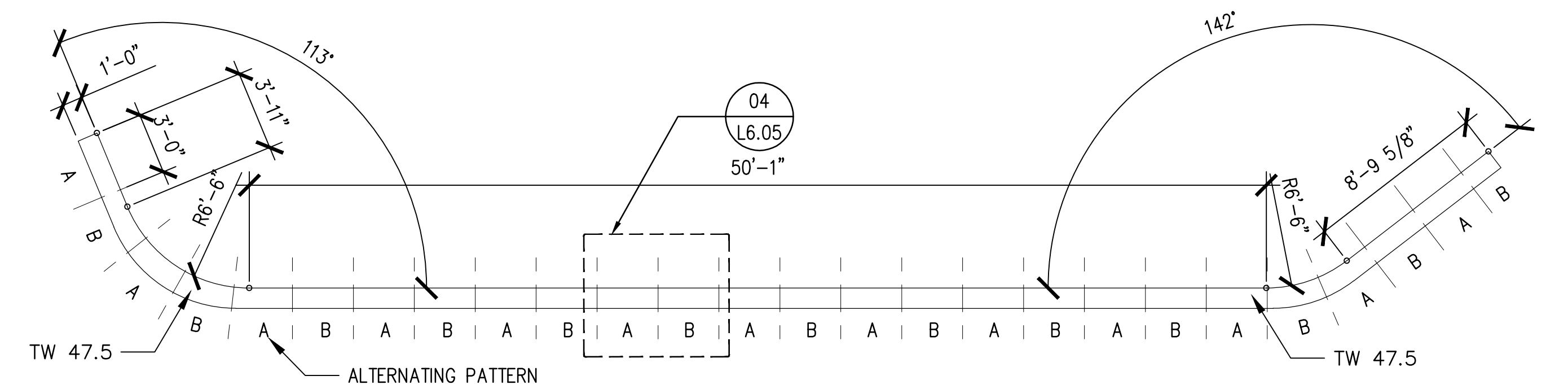
04 RETAINING WALL PLAN PATTERN TYP.
1:8



03 RETAINING WALL TYPE 3
3/16" = 1'-0"



02 RETAINING WALL TYPE 2
3/16" = 1'-0"



01 RETAINING WALL TYPE 1
3/16" = 1'-0"

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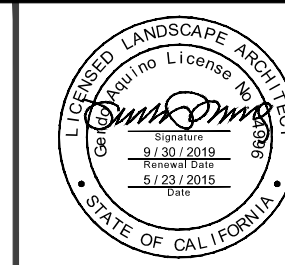
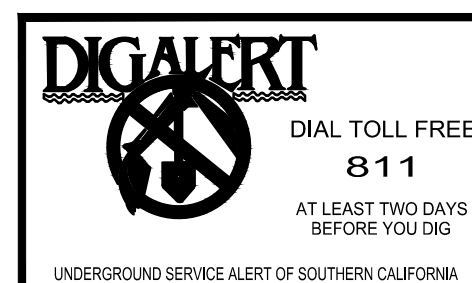
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WALL AND STAIR DETAILS

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SHEET
L6.05
SHEET 82 OF 85 SHEETS



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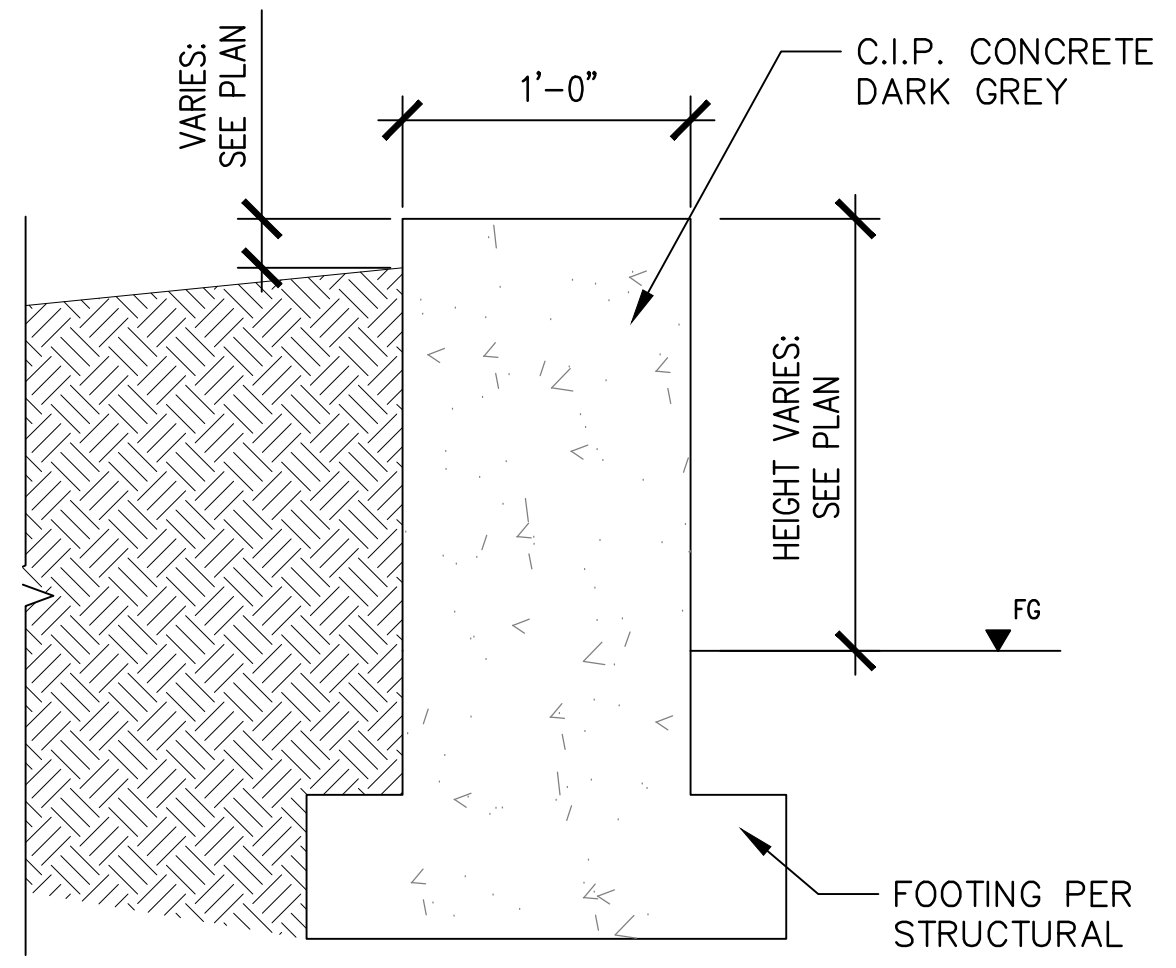
Jason Fusssel
JASON FUSSEL RCE-70879 EXP. 06/30/19 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

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90% CONSTRUCTION DOCUMENTS	2019/05/23			
NO.	REVISION	BY	APPR.	DATE

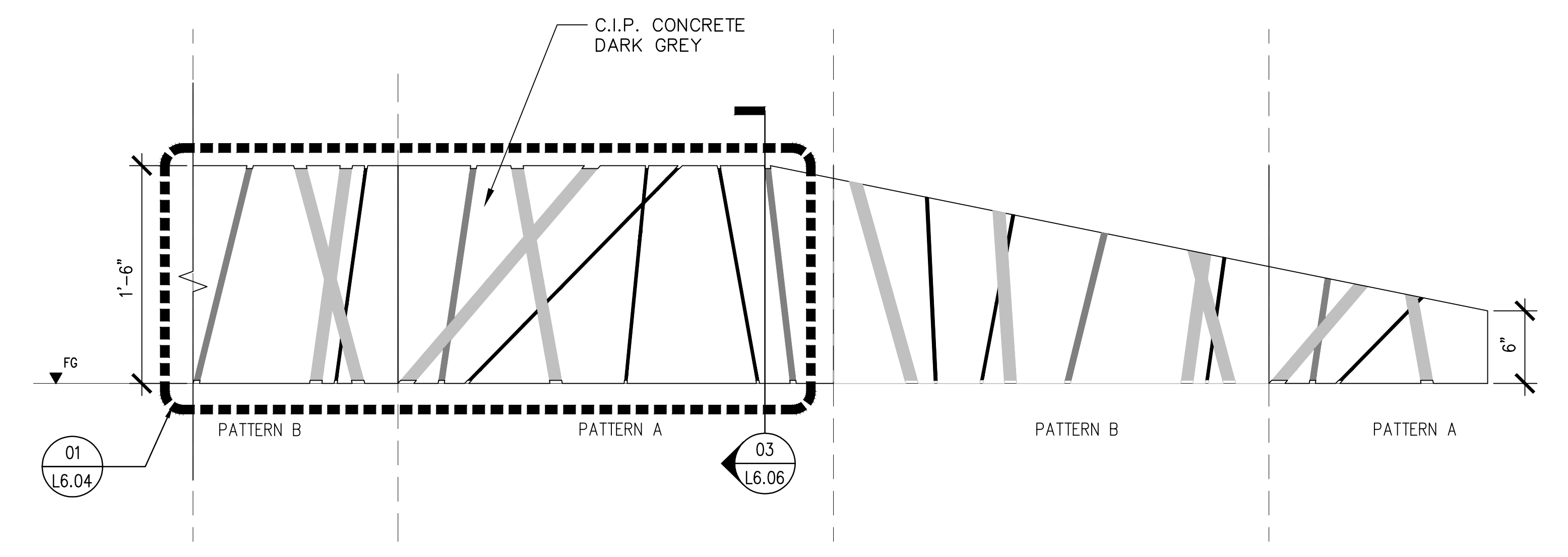
Bar Measures 1 inch

5049-212

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03 RETAINING WALL - SECTION
1 1/2" = 1'-0"



01 PATTERN DETAIL - RETAINING WALL W-2 ELEVATION
1 1/2" = 1'-0"

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Jason Fusssel
REGISTERED PROFESSIONAL
LANDSCAPE ARCHITECT
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Jason Fusssel
JASON FUSSEL RCE-70879 EXP. 06/30/19 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

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	75% CONSTRUCTION DOCUMENTS	2018/11/02
	90% CONSTRUCTION DOCUMENTS	2019/05/23
NO.	REVISION	BY APPR. DATE


WALL AND STAIR DETAILS
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SHEET **L6.06**
SHEET 83 OF 85 SHEETS

Bar Measures 1 inch

5049-212


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Type: _____ Model: _____
Project: _____



METRO BOLLARD

GE Infusion LED



SELECTED MODEL

Top	Height	A	B	C
Dome Top	33.0"	12.0"	12.0"	12.0"
Slanted Top	33.0"	12.0"	12.0"	12.0"
Flat Top	33.0"	12.0"	12.0"	12.0"
Cone Top	33.0"	12.0"	12.0"	12.0"

SELECTED COLOR

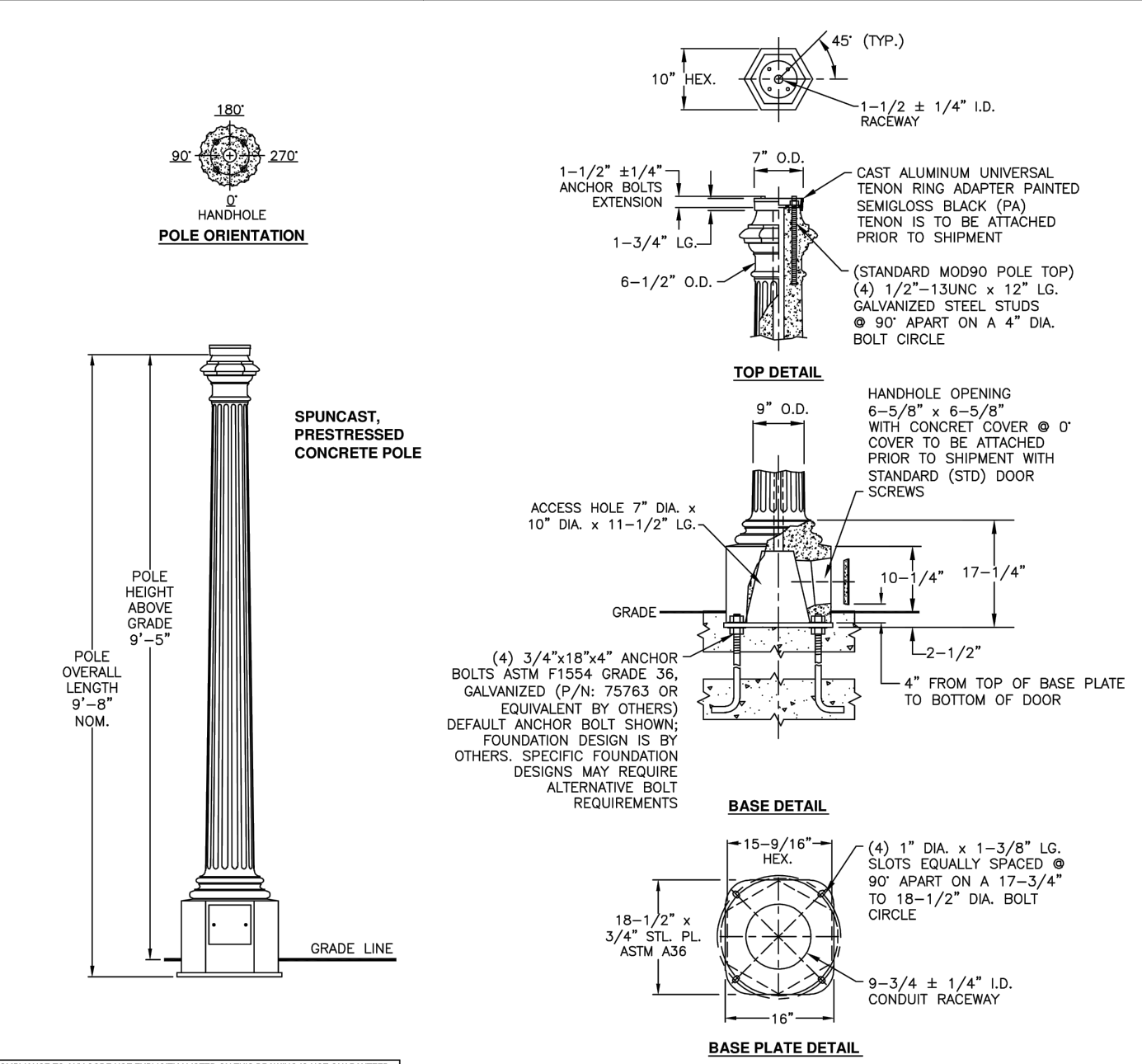
Notes:

- General:** The Metro Bollard provides a contemporary style with its horizontal ring design. The fixture provides maximum output where high levels of light are required.
- Mounting:** Low-copper contact aluminum top, lamp chamber, and base. Bolard tube shall be constructed of anodized aluminum alloy A-2024 (4.0 Cu) with a .007" wall thickness. External hardware shall be stainless steel.
- LED:** Heat-treated tempered glass globe with an overall height of 4.5" available in clear (C) or opal (O) styles.
- Material:** Low-copper contact aluminum top, lamp chamber, and base. Bolard tube shall be constructed of anodized aluminum alloy A-2024 (4.0 Cu) with a .007" wall thickness. External hardware shall be stainless steel.
- LED Module:** Available wattages include: 33.5w and 34.5w and 24w. Color temperatures: 2700K, 3000K, 3500K, and 4000K. CR > 80. Rated life > 50,000 hours.
- Heat Sink:** Supplied with 6" cylindrical heat sink, powder coat finish, providing an overall heat-sinking surface area of 34 square inches.
- LED Driver:** LED-36W DC 700mA aluminum universal input voltage 120V-277V; output current 700mA; dimmable with trailing edge drivers.
- Finish:** Textured polyester powder coat finish. Available in black, grey, white, silver, and semi-gloss finishes. Contact factory for custom and woodgrain finishes.
- Options:** CFDM globes are standard.
- Dimensions:** Available in 6" and 8" diameters with overall height ranging from 33" to 48".
- Base:** Four hole base available: Standard 8", Cone 6", Dome 6", and Flat 6". Cone 6" top on 6" units only.
- Mounting:** Mount the fixture using the provided mounting template and 1/2" anchor bolt kit (4 bolts).
- Listing:** UL Listed 1988 for Wet Locations and suitable for mounting within 4' of ground. Indoor/Outdoor listed for use in Canada.

www.intrigueled.com 160 W 145th Street Menomonee Falls, WI 53051
P: 877.955.0055 F: 262.436.1745

NOTES:
SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION

02 METRO BOLLARD
NOT TO SCALE



REV.	DATE	DESCRIPTION	DRN.	APPR.

"I" LEVEL CONFIG CODES		"P" LEVEL CONFIG CODES	
OPTION CLASS	ENTRY INFO.	OPTION CLASS	ENTRY INFO.
COATING	I	FINISH	37
HP COVER	4347M37	BASEPLATE	4631B NOTE 9
DOOR SCREWS	STD	POLE TOP CON.	M090

POLE DESIGNATION	POLE HEIGHT ABOVE GRADE	OVERALL POLE LENGTH (NOM.)	BOLT CIRCLE	BASE O.D.	ULTIMATE B.L. MOMENT (ft.-lbs.)	POLE WEIGHT (lbs.)
22CT10	9'-5"	9'-8"	18"	15-9/16"	16,200	540

NOTES:

- POLES REQUIRED, EACH WITH UNIVERSAL TENSION ADAPTER RING 7" O.D. x 1-3/4" LG. (P/N: 46087PA)
- FINISH (23): LA BLACK & WHITE, EXPOSED AGGREGATE FINISH WITH AMERSHIELD ANTI-GRAFFITI COATING.
- ASTM C-150 TYPE III GRAY CEMENT.
- F_c @ 28 DAYS = 6,000 PSI USING SPIN CYLINDER TEST.
- F_t @ 28 DAYS = 5,000 PSI USING ASTM C-31 CYLINDER TEST.
- POLES MANUFACTURED PER ASTM C-1098-13 SPECIFICATIONS.
- PROTECTIVE COAT EXPOSED P.E. WIRES AT POLE ENDS.
- BASEPLATE FULLY PRESTRESSED WITH (6) 5/16" DIA. A-416 PRESTRESSING CABLES.
- THE POLE IS IMPLIED TENON TOP ASSEMBLY DEPICTED ON THIS DRAWING IS DESIGNED TO WITHSTAND THE LOADS IMPARTED BY A SINGLE ACCORD OR GLOBE TYPE LUMINAIRE (NOT TO EXCEED 25.00 FT. EPA, 50 LBS.) PER THE 2013 ASHRAE 175-4 IN A 90 MPH WIND ZONE (SECOND QUANT) CRITERIA FOR STREET LIGHT POLES. NO TORSIONAL (ARM OR TWIST) LUMINAIRE LOADS ANALYZED. PLEASE CONTACT & ADVISE MANUFACTURER IF THE INTENDED LOADING EXCEEDS THESE VALUES.
- POLE IS LOCATED IN SPECIAL WIND REGION. PURCHASER TO VERIFY REQUIRED WIND SPEED.
- POLE SHOWN IS SUITABLE FOR CAPPED BASEPLATE ENCASED IN CONCRETE, OTHERWISE, OTHER NON-CAPPED INSTALLATION REQUIRES A GALVANIZED BASEPLATE.

APPROVED BY _____ **DATE** _____

CARLSON PARK
CULVER CITY, CA
22CT10 POLE WITH TENON ASSEMBLY

THE DRAWING CONFORMS EXCEPT WHERE SHOWN OTHERWISE TO THE LATEST EDITIONS OF THE FOLLOWING STANDARDS: ASME Y14.1, Y14.2, Y14.3, Y14.4, Y14.5, Y14.6, Y14.7, Y14.8, Y14.9, Y14.10, Y14.11, Y14.12, Y14.13, Y14.14, Y14.15, Y14.16, Y14.17, Y14.18, Y14.19, Y14.20, Y14.21, Y14.22, Y14.23, Y14.24, Y14.25, Y14.26, Y14.27, Y14.28, Y14.29, Y14.30, Y14.31, Y14.32, Y14.33, Y14.34, Y14.35, Y14.36, Y14.37, Y14.38, Y14.39, Y14.40, Y14.41, Y14.42, Y14.43, Y14.44, Y14.45, Y14.46, Y14.47, Y14.48, Y14.49, Y14.50, Y14.51, Y14.52, Y14.53, Y14.54, Y14.55, Y14.56, Y14.57, Y14.58, Y14.59, Y14.60, Y14.61, Y14.62, Y14.63, Y14.64, Y14.65, Y14.66, Y14.67, Y14.68, Y14.69, Y14.70, Y14.71, Y14.72, Y14.73, Y14.74, Y14.75, Y14.76, Y14.77, Y14.78, Y14.79, Y14.80, Y14.81, Y14.82, Y14.83, Y14.84, Y14.85, Y14.86, Y14.87, Y14.88, Y14.89, Y14.90, Y14.91, Y14.92, Y14.93, Y14.94, Y14.95, Y14.96, Y14.97, Y14.98, Y14.99, Y14.100.

AMERON SCALE: N.T.S. DWG. NO. 1801-030 REV -

NOTES:
SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION

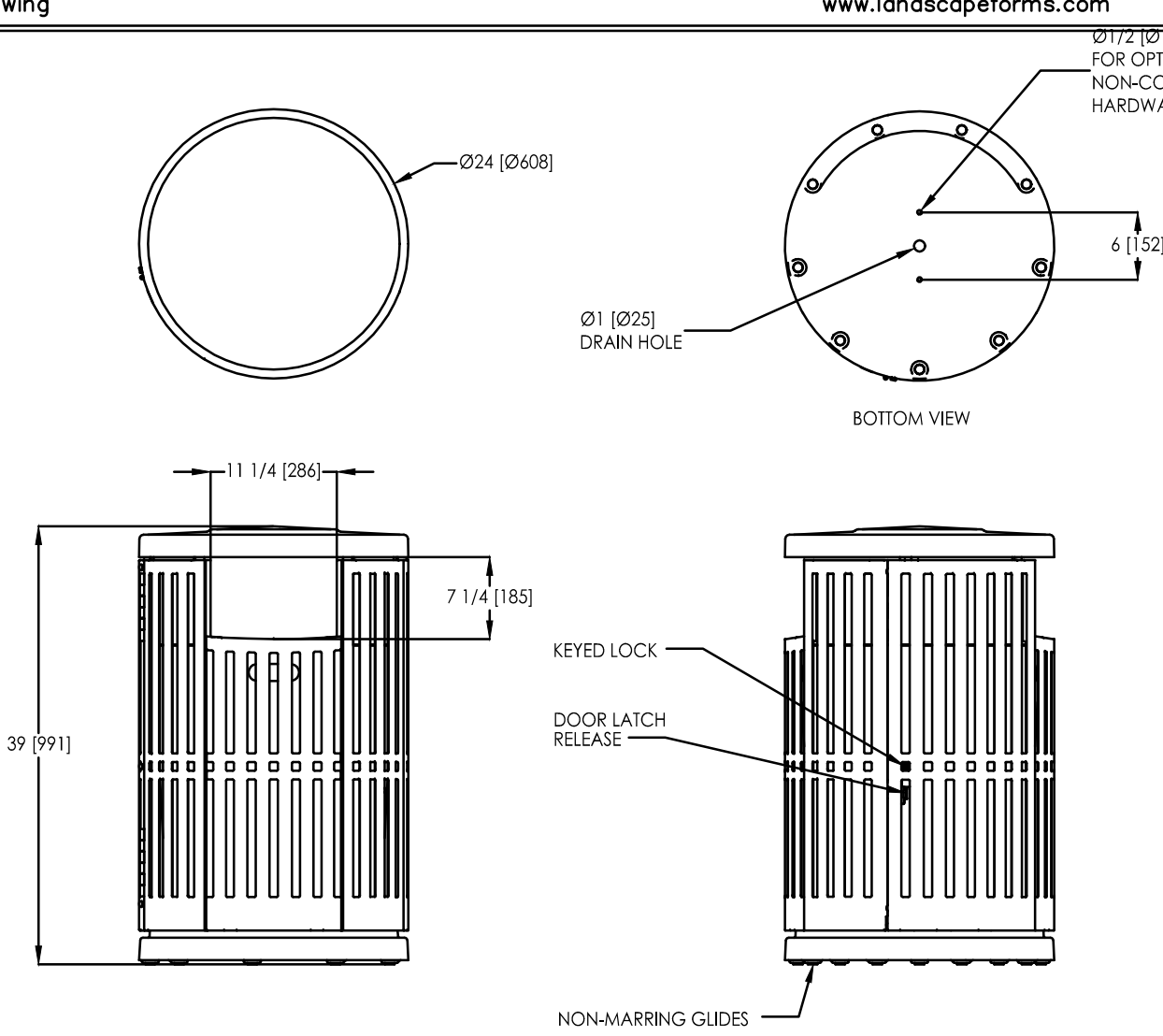
03 PEDESTRIAN LIGHT POLE
NOT TO SCALE

Chase Park
Product Drawing

Opening Litter Receptacle, With Lock

www.landscapeforms.com

Date: 8/5/2010
Ph: 800.521.2546



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Jason Fusssel
JASON FUSSEL RCE-70879 EXP. 06/30/19 DATE _____
PROJECT NUMBER # PZ-460
DRAWING NO. _____

NO.	REVISION	BY	APPR.	DATE

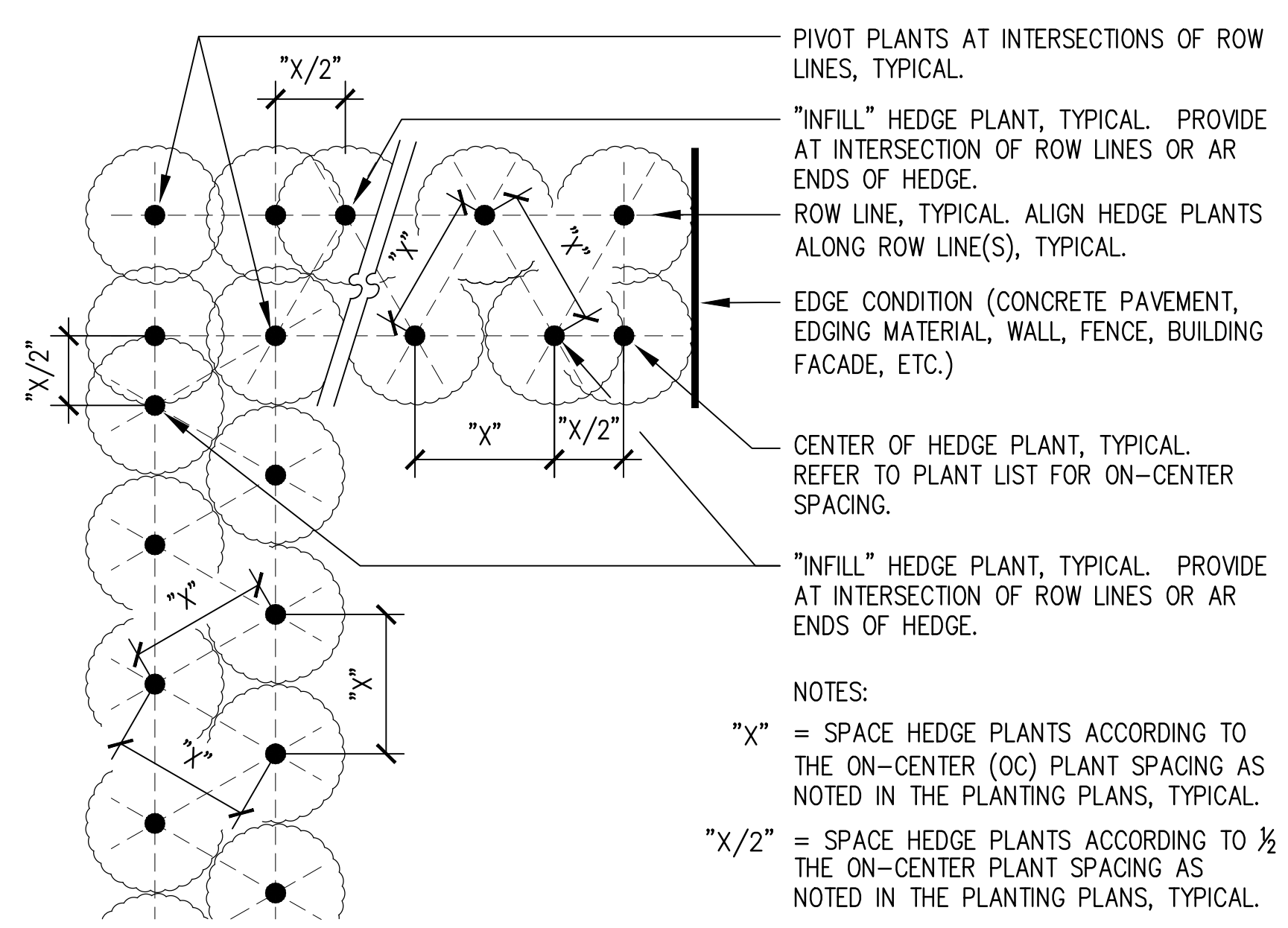
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CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

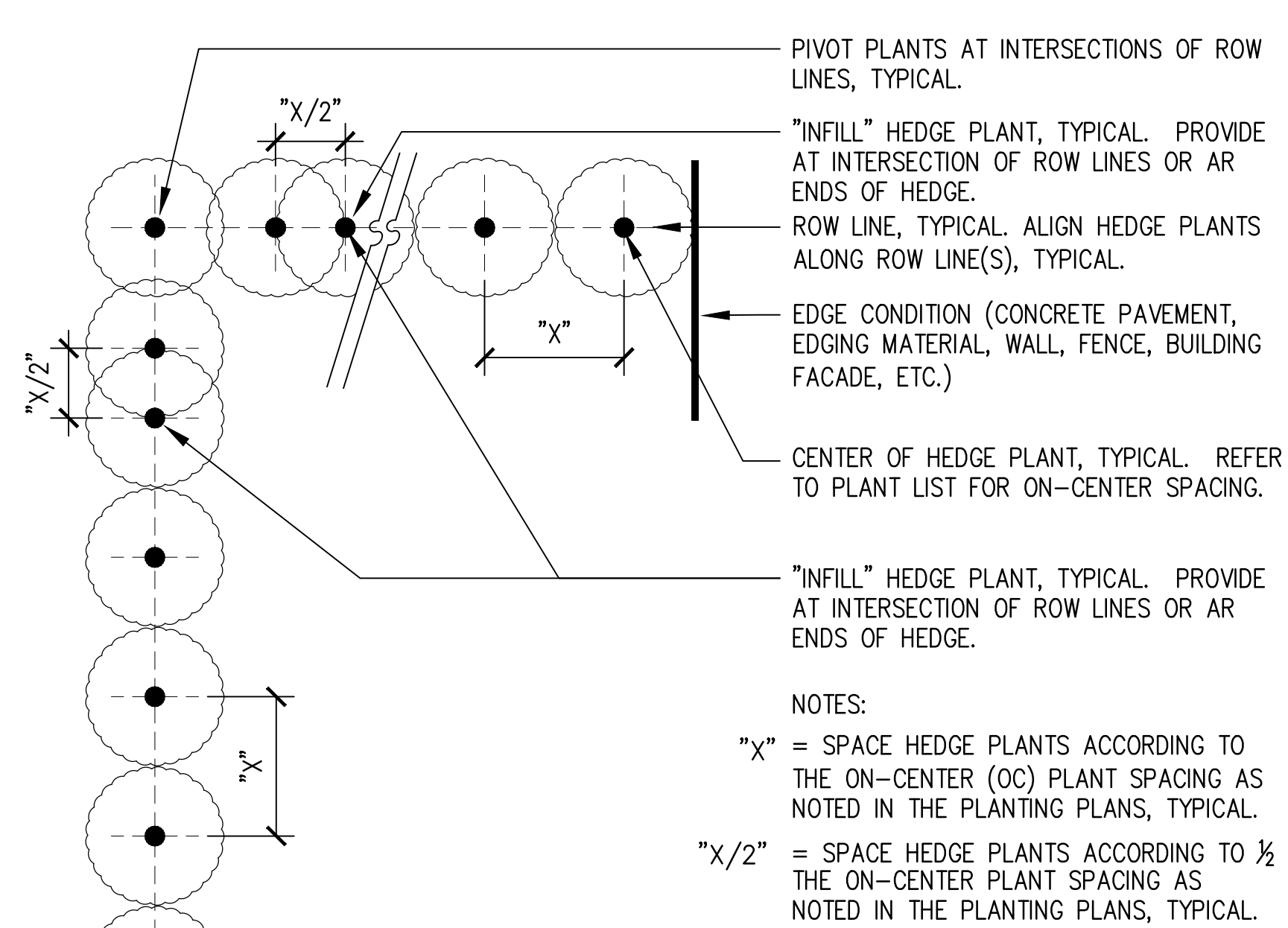
AMENITY DETAILS
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SEE TITLE SHEET
SHEET **L6.07**
SHEET 84 OF 85 SHEETS

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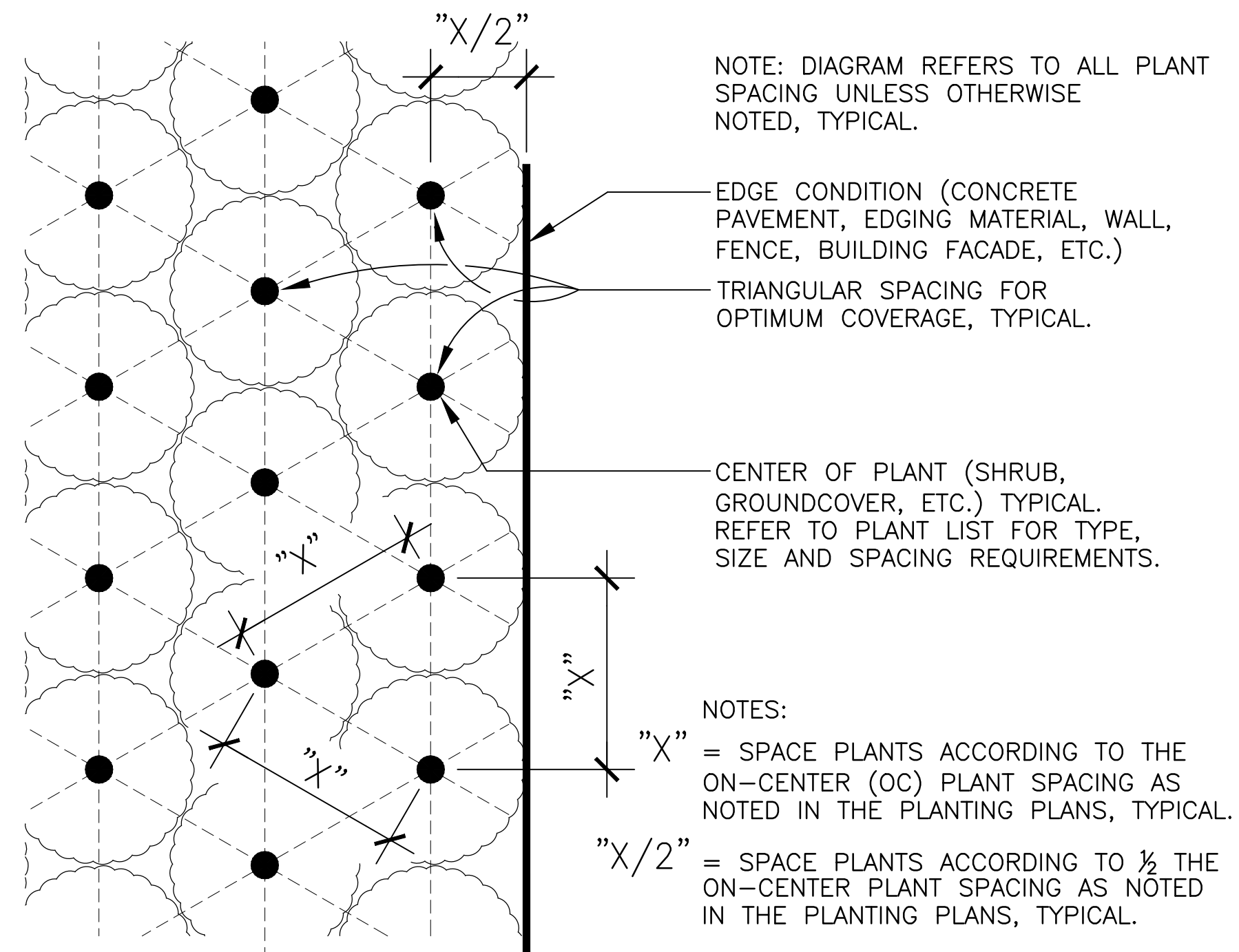
Bar Measures 1 inch



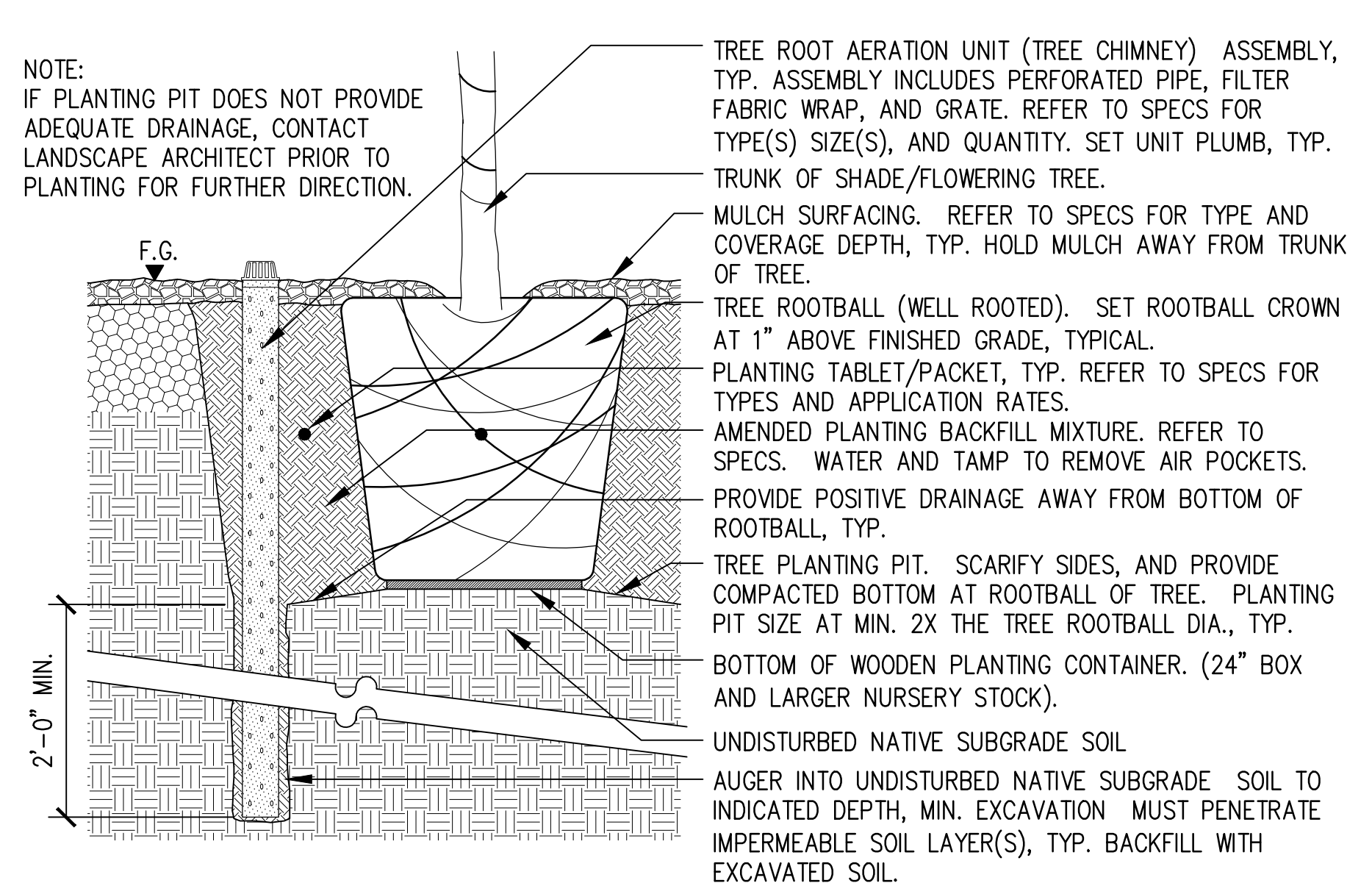
06 TRIANGULAR SPACING DIAGRAM – MULTIPLE ROWS
NOT TO SCALE



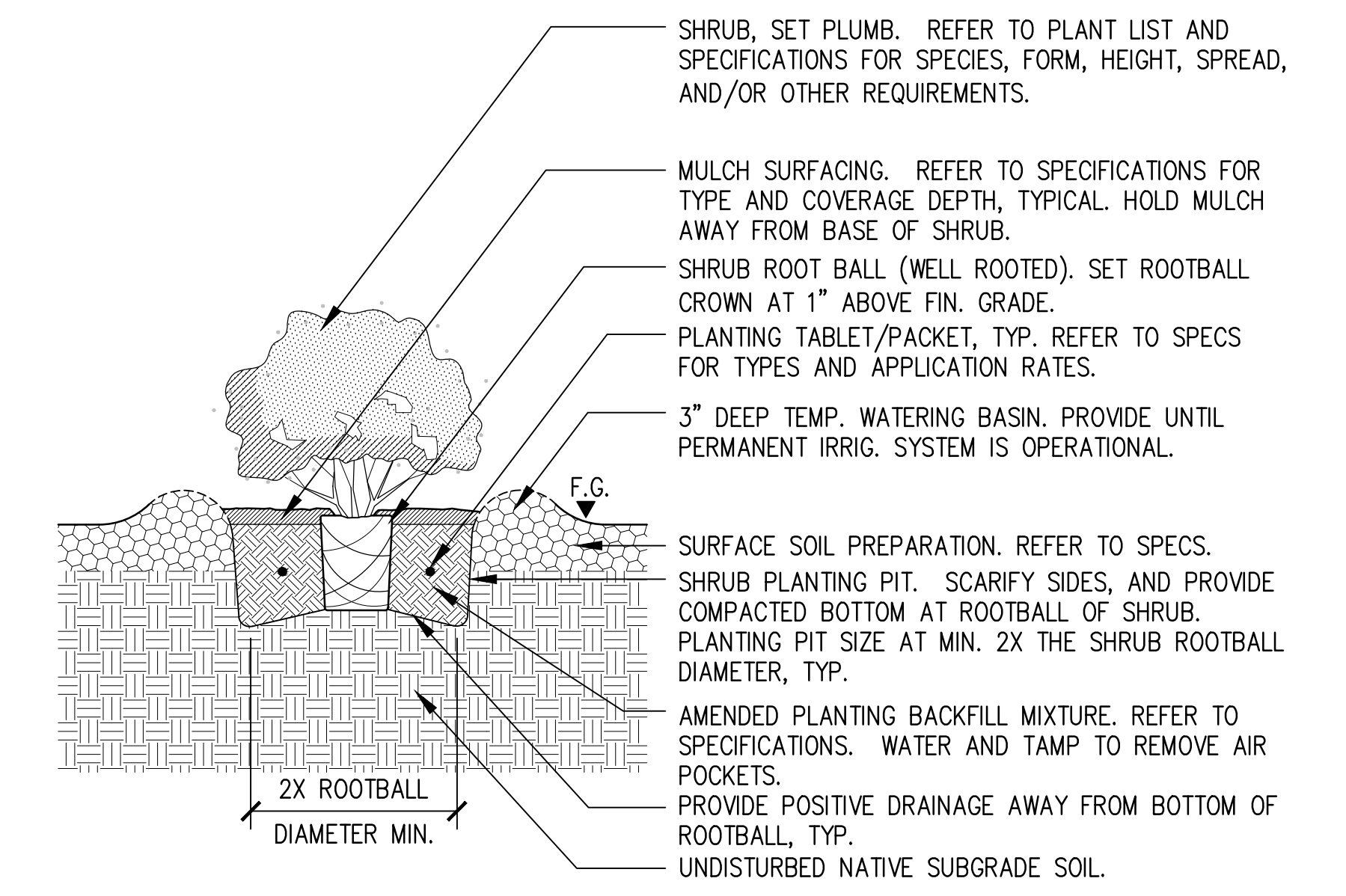
05 GRID SPACING DIAGRAM – SINGLE ROW
NOT TO SCALE



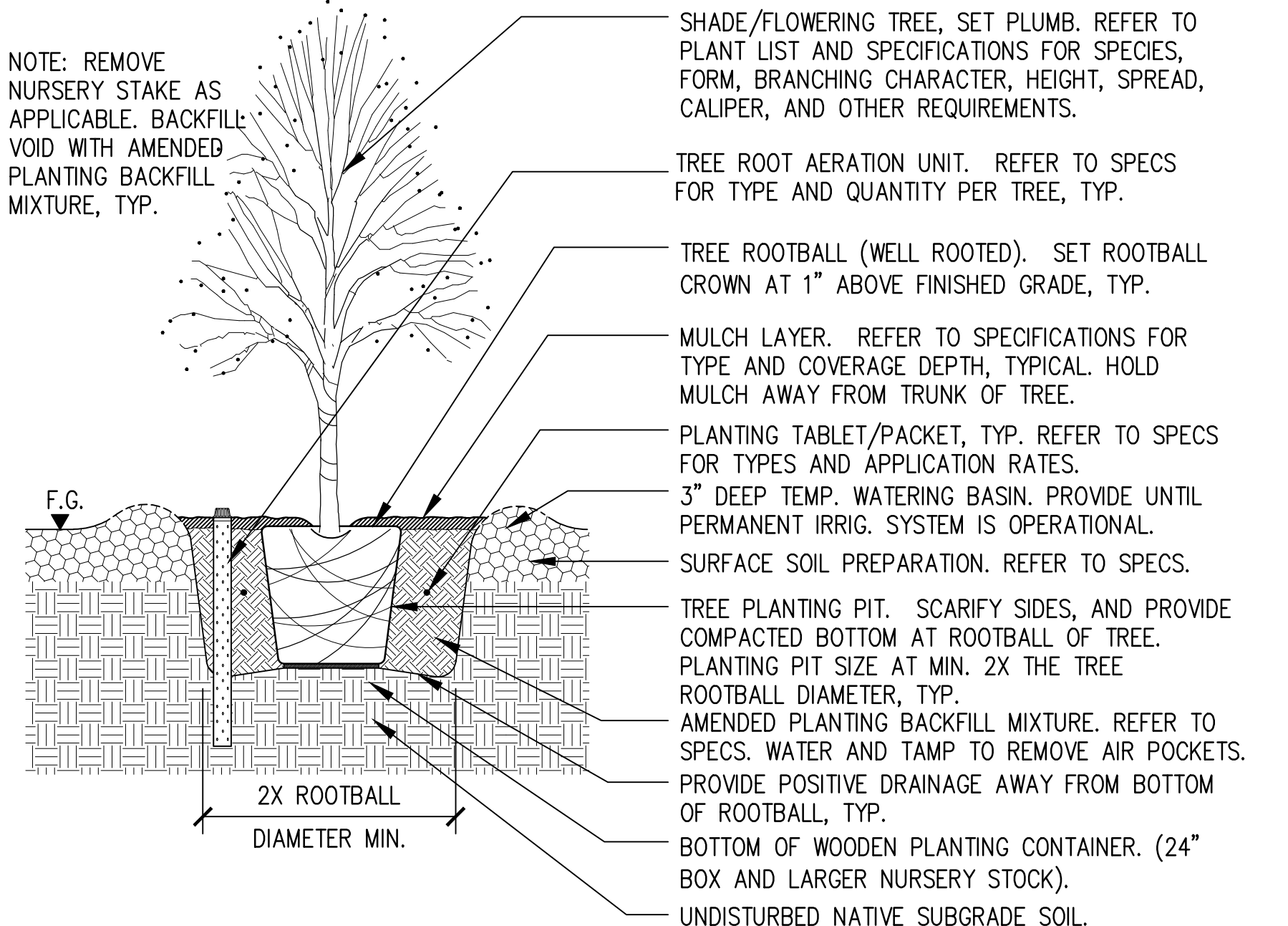
04 TRIANGULAR SPACING
NOT TO SCALE



03 TREE ROOT AERATION UNIT (TREE CHIMNEY)
NOT TO SCALE



02 SHRUB PLANTING
NOT TO SCALE



01 TREE PLANTING
NOT TO SCALE

6/6/2019 2:59:41 PM - P:\TETRA\801 CULVER WIDENING PROJECT\4 DRAWINGS\GRAPHICS\AUTOCAD\DETAILS\01 PLANTING DETAILS.DWG - ROMAN CHIU

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LANDSCAPE ARCHITECT
JASON FUSSELL
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:
Jason Fussell
JASON FUSSELL RCE-70879 EXP. 06/30/19 DATE
PROJECT NUMBER # PZ-460
DRAWING NO.

60% CONSTRUCTION DOCUMENTS	2018/09/13			
75% CONSTRUCTION DOCUMENTS	2018/11/02			
90% CONSTRUCTION DOCUMENTS	2019/05/23			
NO.	REVISION	BY	APPR.	DATE

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CITY OF CULVER CITY
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION - CULVER CITY, CALIFORNIA
CULVER BOULEVARD REALIGNMENT PROJECT
(BETWEEN SEPULVEDA BOULEVARD AND ELENDA STREET)

PLANTING DETAILS
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SHEET **L7.01**
SHEET 85 OF 85 SHEETS

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Bar Measures 1 inch