GENERAL NOTES

1. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC), STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC), CALTRANS STANDARD PLANS AND SPECIFICATIONS AS APPLICABLE, AND THE CONTRACT DOCUMENTS. PLANS AND SPECIFICATIONS ARE MADE A PART HEREOF AS IF SPELLED OUT IN THEIR ENTIRETY, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL NOTIFY THE CITY'S REPRESENTATIVE AND ALL OTHER INTERESTED PARTIES AT LEAST FORTY–EIGHT (48) HOURS PRIOR TO THE START OF WORK.
3. AT LEAST FORTY–EIGHT (48) HOURS PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE REGIONAL NOTIFICATION CENTER (UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA – USA 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 POTHOLE AND EXPOSE THE EXISTING UTILITIES AT ALL CROSSINGS AND AT THE POINT OF TIE–IN; THEN CONTACT THE CITY'S REPRESENTATIVE, SO THE EXISTING ELEVATION OF THE EXISTING UTILITIES CAN BE VERIFIED. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ALL UTILITIES AND ALL STRUCTURES FOUND AT THE SITE.
4. THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION SHALL OBTAIN ALL REQUIRED PERMITS AND HAVE A CURRENT BUSINESS LICENSE(S).
5. 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 (SWPPP) 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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 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.
14. ALL UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY THE OWNER OR THOSE SHOWN ON RECORDS EXAMINED ARE INDICATED WITH THEIR APPROPRIATE LOCATION AND EXTEND. 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 STRUCTURED CONCERNED BEFORE STARTING WORK.
15. 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.
16. 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.

CITY OF EL MONTE

DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION

GARVEY AVENUE

STREET AND DRAINAGE IMPROVEMENT PROJECT

CIP No. 884

CITY COUNCIL

MAYOR
JESSICA ANCONA

MAYOR PRO TEM
MARTIN HERRERA

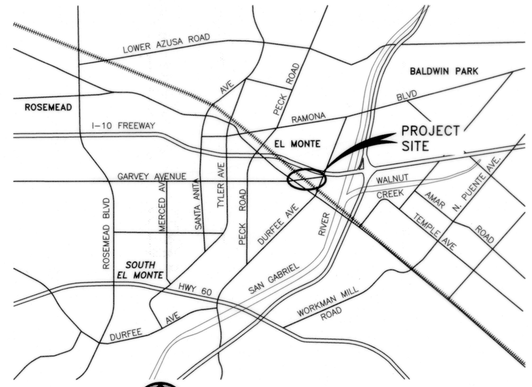
COUNCIL MEMBER
MARISOL CORTEZ

COUNCIL MEMBER
VICTORIA MARTINEZ MUELA

COUNCIL MEMBER
ALMA D. PUENTE

COUNCIL MEMBER
RICHARD ROJO

COUNCIL MEMBER
JULIA RUEDAS



VICINITY MAP

NOT TO SCALE

UTILITY AGENCIES

UTILITY AGENCY	PHONE NO.	CONTACT PERSON
CITY OF EL MONTE SEWER AND STORM LINES	(626) 580–2250	
CITY OF EL MONTE POLICE DEPARTMENT	(626) 580–2100	
LA COUNTY FIRE DEPARTMENT	(626) 433–4946	
LA COUNTY SANITATION DISTRICT	(562) 699–7411 EXT. 1205	CHARLES REYESLA
SOUTHERN CALIFORNIA EDISON	(323) 720–5298	JOSEPH MOTTOLA
SOUTHERN CALIFORNIA GAS COMPANY	(714) 634–5067	RYAN LOPEZ
SOUTHERN CALIFORNIA GAS COMPANY	(818) 701–4546	TRANSMISSION
AT&T	(626) 578–3690	ARMAND DABUET
CHARTER COMMUNICATION	(310) 569–2910	JUSTIN NORRIS
LEVEL 3 COMMUNICATION	(918) 547–0007	CALEB KING
SPRINT	(951) 662–6262	JACK FRY
SAN GABRIEL VALLEY WATER DISTRICT	(909) 201–7375	ALAN FROST
METROPOLITAN WATER DISTRICT	(818) 468–5188	JESSE FRANCO

TRAFFIC CONTROL GENERAL NOTES

1. ALL TRAFFIC CONTROL WORK FOR CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF: THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH MANUAL), AND ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
2. ALL SIGNING AND STRIPING SHALL CONFORM TO THE LATEST CALTRANS STANDARD PLANS AND SPECIFICATIONS.
3. NO WORK SHALL BEGIN BEFORE 8:00 AM OR CONTINUE AFTER 7:00 PM DURING WEEKDAYS, BEFORE 9:00 AM OR CONTINUE AFTER 7:00 PM ON SATURDAYS AND 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.
4. NO WORK IS PERMITTED ON HOLIDAYS UNLESS APPROVED BY THE CITY ENGINEER.
5. DURING NON–WORKING HOURS OR WHEN WORK IS NOT SCHEDULED, ALL ROADWAY 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 AS OR 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.
6. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS POINT TO ALL ADJACENT PROPERTIES AND FIRE HYDRANTS.
7. ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE PER CA MUTCD.
8. THE CONTRACTOR SHALL HAVE ALL SIGNS, DELINEATORS, BARRICADES, ETC., PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
9. 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.
10. 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.
11. 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.
12. THE CONTRACTOR SHALL TELEPHONE THE CITY OF EL MONTE INSPECTION AT LEAST TWO WORKING DAYS (48 HOURS) PRIOR TO THE STARTING OF TRAFFIC CONTROL DELINEATION.
13. ARROW BOARDS SHALL BE USED ON ANY LANE CLOSURES ON ARTERIAL STREETS.
14. THE CONTRACTOR SHALL MAINTAIN TWO–WAY TRAFFIC DURING CONSTRUCTION.
15. THE CONTRACTOR SHALL MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION DURING CONSTRUCTION ON MAJOR ARTERIAL STREETS.
16. 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 EL MONTE STANDARDS.
17. 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 REPRESENTATIVE.

17. 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.
18. ALL ITEMS ON SITE TO BE PROTECTED IN PLACE EXCEPT NOTED OTHERWISE ON PLAN.
19. ELEVATIONS ARE IN FEET ABOVE THE U.S.C. & G.S. SEA LEVEL DATUM OF NAVD 1988.
20. NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE CITY ENGINEER.
21. APPROVAL OF THIS PLAN BY THE CITY OF EL MONTE DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION 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.
22. 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 THE CITY OF EL MONTE STORMWATER MANAGEMENT AND DISCHARGE CONTROL ORDINANCE, EMMC 13.16.
23. THE CONTRACTOR SHALL PROTECT–IN–PLACE ALL EXISTING UTILITIES & UTILITY BOXES.
24. CONTRACTOR TO EXECUTE DUE PRECAUTION DURING EXCAVATION ADJACENT TO EXISTING WATER LINE OR POWER POLES AND PROVIDE ADEQUATE SHORING AND/OR BRACING.

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.

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526–7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
LEE TORRES, P.E.
CITY ENGINEER
DATE 4/20/2023

REVIEWED AND RECOMMENDED BY
GUILLERMO PEREZ
DATE 4-20-23

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

TITLE SHEET

GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	T-1
SHEET 1 OF 53	

GENERAL NOTES

1. SPECIFICATIONS: ALL WORK SHALL CONFORM TO THE 2021 EDITION AND SUPPLEMENTS OF "THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (GREENBOOK).
2. THIS IMPROVEMENT CONSISTS OF WORK CALLED FOR ONLY ON THIS PLAN.
3. INSPECTION: ALL WORK AND MATERIALS SHALL BE INSPECTED BY THE CITY OF EL MONTE INSPECTOR OF PUBLIC WORKS DURING CONSTRUCTION PURSUANT TO THE 2015 EDITION OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK) AND THE COUNTY OF LOS ANGELES STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION AS APPLICABLE. CALL (626) 580-2058 BEFORE NOON OF THE WORKING DAY BEFORE THE FIRST SCHEDULED DAY OF CONSTRUCTION.
4. PRIOR TO THE START OF ANY CONSTRUCTION, DEMOLITION, REMOVALS, SAWCUTTING, OR INSTALLATION OF TRAFFIC CONTROL THE CONTRACTOR SHALL MEET WITH THE INSPECTOR TO DISCUSS SAFETY, TRAFFIC CONTROL REQUIREMENTS, PUBLIC ACCESS, CONSTRUCTION IMPACT MITIGATION, REMOVAL LIMITS, AND CONTRACTOR'S PLANNED SEQUENCING OF OPERATIONS. PRIOR TO OR AT THE PROJECT PRECONSTRUCTION MEETING THE PERMITTEE OR ITS CONTRACTOR SHALL PROVIDE THE INSPECTOR TWO SETS OF FULL-SIZE PLANS AND MAINTAIN ONE SET OF FULL-SIZE PLANS AT THE SITE DURING CONSTRUCTION.
5. THE CONTRACTOR, IN CONFORMANCE WITH LOS ANGELES COUNTY STANDARDS SHALL POTHOLE EXISTING SUBSURFACE INSTALLATIONS CARRYING UNSTABLE SUBSTANCES TO DETERMINE THEIR LOCATIONS AND ELEVATIONS BEFORE COMMENCING EXCAVATION.
6. UNDERGROUND SERVICE ALERT: BEFORE COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL OBTAIN AN UNDERGROUND SERVICE ALERT (USA) INQUIRY I.D. NUMBER BY CALLING (800) 227-2600. TWO WORKING DAYS SHALL BE ALLOWED AFTER THE I.D. NUMBER IS OBTAINED AND BEFORE THE CONTRACTOR STARTS THE EXCAVATION WORK SO THAT UTILITY OWNERS CAN BE NOTIFIED. IF THE UTILITY OWNER IS THE CITY OF EL MONTE, A CONFIRMATION NUMBER INDICATING THE CITY HAS BEEN NOTIFIED SHALL BE OBTAINED BY USA AND/OR THE CONTRACTOR FROM THE APPROPRIATE CITY DEPARTMENT. THE I.D. NUMBER TOGETHER WITH THE DATE ACQUIRED SHALL BE REPORTED TO THE BUREAU OF CONTRACT ADMINISTRATION WHEN CALLING FOR INSPECTION. I.D. NUMBERS WILL NOT BE GIVEN MORE THAN 10 DAYS BEFORE STARTING EXCAVATION WORK.
7. AT LEAST THIRTY (30) DAYS BEFORE THE START OF CONSTRUCTION THE CONTRACTOR/ENGINEER SHALL CONTACT THE CITY OF EL MONTE PUBLIC WORKS DEPARTMENT TO VERIFY THAT THERE IS NO PROPOSED PROJECT IN THIS AREA.
8. NOTIFICATION: AT LEAST TEN (10) DAYS BEFORE THE START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY, IN WRITING, ABUTTING PROPERTY OCCUPANTS OF THE PROPOSED CONSTRUCTION START DATE. A COPY OF SAID WRITTEN NOTIFICATION SHALL BE PROVIDED TO THE PUBLIC WORKS INSPECTOR FOR APPROVAL BEFORE THEY ARE DISTRIBUTED TO THE OCCUPANTS OF THE ABUTTING PROPERTY.
9. ADVANCE CONSTRUCTION NOTICE SIGNS:
   IN ADDITION TO SIGNS REQUIRED BY THE PROVISIONS OF THE "WORK AREA TRAFFIC CONTROL HANDBOOK" (WATCH), LATEST EDITION, FURNISH AND PLACE SIGNS FOR GIVING ADVANCE NOTICE TO MOTORISTS OF TRAFFIC DISRUPTION AS PART OF THIS PROJECT.
10. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "WORK AREA TRAFFIC CONTROL HANDBOOK" (WATCH).
11. CONSTRUCTION STAKES FOR CURB AND LONGITUDINAL GUTTER, WITH GRADE LESS THAN 0.50%, SHALL BE SET AT 12.5 FEET ON CENTER.
12. IN ADDITION TO THE CONSTRUCTION OF PAVEMENT SHOWN HEREON, WORK REQUIRED UNDER THIS PLAN WILL ALSO INCLUDE THE CONSTRUCTION OF PERMANENT TRENCH RESURFACING IN ALL AREAS WHERE UTILITY LINES HAVE BEEN INSTALLED TO SERVE THIS DEVELOPMENT. CONDITIONS OF TRENCH BACKFILL AND RESURFACING SHALL BE AS SPECIFIED ON THE EXCAVATION PERMIT. PAVING OF ROADWAY AREAS SHALL BE WITHHELD UNTIL CONTEMPLATED UTILITY CHANGES OR INSTALLATIONS HAVE BEEN MADE UNDER CITY PERMIT.
13. REPAIR AND/OR REPLACE ANY EXISTING BROKEN OR OFF-GRADE PAVEMENT, CONCRETE CURB, GUTTER OR SIDEWALK IMMEDIATELY ADJACENT TO OR WITHIN THE AREA OF THIS IMPROVEMENT SATISFACTORY TO THE CITY ENGINEER.
14. SURVEY MONUMENT PRESERVATION IS REQUIRED AND SHALL INCLUDE SUBMITTAL OF PRE AND POST CONSTRUCTION SURVEY MONUMENT TIES TO BOTH HORIZONTAL AND VERTICAL CONTROL POINTS PUBLISHED IN THE LOS ANGELES CITY ENGINEER FIELD BOOKS AND PRECISE BENCHMARK BOOKS. THIS DOES NOT RELIEVE THE CONTRACTOR OF FULFILLING ANY ADDITIONAL REQUIREMENTS SET FORTH BY SECTIONS 2-9.1 AND 2-9.3 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK).

NOTICE TO CONTRACTOR

1. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
2. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN, AND ANY OTHER LINES OR STRUCTURES NOT SHOWN ON THESE PLANS AND IS RESPONSIBLE FOR THE PROTECTION OF OR ANY DAMAGE TO THESE LINES OR STRUCTURES. CONTRACTOR SHALL POTHOLE AND FIELD VERIFY ACTUAL LOCATIONS AND ELEVATIONS OF POTENTIAL UTILITY CROSSINGS.
3. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCEMENT OF WORK.

STREET NOTES

1. FOR A NEW ASPHALT CONCRETE (AC) SECTION BETWEEN 3" TO 4" THICK, THE CONTRACTOR SHALL CONSTRUCT ONE LIFT OF C2-AR4000 (C2-PG-64-10) OVER BASE. FOR A NEW AC SECTION 5" THICK, THE CONTRACTOR SHALL CONSTRUCT ONE 2" THICK LIFT OF C2-AR4000 (C2-PG-64-10) OVER ONE 3" THICK LIFT OF B-AR4000 (B-PG-64-10) OVER BASE. FOR A NEW AC SECTION THICKER THAN 5" AND PAVEMENT OVERLAYS REFER TO CONSTRUCTION NOTES AND/OR PLANS. THE MAXIMUM THICKNESS OF EACH LIFT SHALL BE 4". INSTALLATION OF THE FINAL COURSE SHALL NOT TAKE PLACE UNTIL ALL UNDERGROUND UTILITY TRENCHING HAS BEEN COMPLETED AND APPROVAL TO PROCEED HAS BEEN GRANTED BY THE PUBLIC WORKS INSPECTOR OR ENGINEER.
2. DURING NON-CONSTRUCTION HOURS, ALL EXCAVATIONS MUST BE APPROPRIATELY SHORED, PLATED OR BACKFILLED EXCEPT BORE PITS WHICH SHALL BE SECURED WITH K-RAIL AND 6' HIGH CHAIN LINK FENCE PANELS SECURED IN PLACE TO THE SATISFACTION OF THE PUBLIC WORKS INSPECTOR. STEEL PLATES SHALL BE TACK WELDED, PINNED AND/OR SECURED IN PLACE BY ANOTHER METHOD APPROVED BY THE INSPECTOR.
3. SUBGRADE SOIL BENEATH PAVEMENTS, CURB, GUTTER AND SIDEWALK SHOULD BE SCARIFIED, MOISTURE CONDITIONED, AND COMPACTED TO A MINIMUM DEPTH OF TEN INCHES.

STORM DRAIN NOTES

1. ALL PIPE LENGTHS ARE HORIZONTAL PROJECTIONS, UNLESS OTHERWISE SHOWN.
2. FOR TRENCH EXCAVATIONS IN NATIVE SOIL, SHORING SHALL BE PROVIDED TO SATISFY STATE OF CALIFORNIA SAFETY REQUIREMENTS.
3. PIPE CONSTRUCTION IN FILL AREA MUST BE COORDINATED WITH THE GRADING TO ENSURE THAT WHEN THE FILL OPERATION HAS BEEN COMPLETED AT GRADE THERE IS A MINIMUM OF 2 FEET OF FILL ABOVE THE TOP OF PIPE.
4. ALL WORK MUST BE IN CONFORMANCE WITH THE CURRENT 2021 STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND MUST BE KEPT ON THE JOB SITE AT ALL TIMES.
5. THE CONTRACTOR MUST NOTIFY THE CITY EL MONTE INSPECTOR AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION BY TELEPHONING (626) 580-2050.
6. ALL FILLS MUST BE COMPACTED TO 90% RELATIVE COMPACTION AS DETERMINED BY THE CALIFORNIA TEST METHOD NO. 216, 1978 "FIVE LAYER METHOD" ALL BACKFILL MUST BE FREE OF VEGETABLE MATTER.
7. ALL SURVEYING REQUIRED FOR VERTICAL AND HORIZONTAL ALIGNMENT MUST BE PROVIDED BY THE CONTRACTOR OR DEVELOPER AND SUFFICIENT REFERENCE STAKING MUST BE IN ACCORDANCE WITH THE REQUEST OF THE CITY OF EL MONTE INSPECTOR.
8. ALL REINFORCED CONCRETE PIPE MUST BE BEDDED IN ACCORDANCE WITH PIPE BEDDING DETAIL LOCATED ON SHEET 8
9. ALL STEEL THAT IS TO BE CONTINUOUS SHALL BE LAPPED A MINIMUM OF 45 BAR DIAMETERS.
10. CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4" MIN.
11. LENGTH OF MANHOLE STRUCTURES MAY BE INCREASED TO MEET PIPE ENDS AT OPTION OF CONTRACTOR AS LONG AS REINFORCING STEEL IS CONTINUED AS REQUIRED. ANY CHANGE IN SPUR LOCATION MUST BE APPROVED BY THE ENGINEER.
12. FLOOR OF MANHOLE STRUCTURE SHALL BE STEEL TROWELLED TO SPRING LINE.
13. BODY OF MANHOLE STRUCTURE, INCLUDING SPUR, MUST BE POURED IN ONE CONTINUOUS OPERATION, EXCEPT THAT CONSTRUCTION JOINT AT THE SPRING LINE WITH A LONGITUDINAL KEYWAY IS PERMITTED.
14. ALL REINFORCING BARS MUST BE SECURELY HELD IN PLACE IN THE FORMS. TWO-WAY MATS OF STEEL MUST BE WIRED TOGETHER BOTH WAYS AT ALTERNATE INTERSECTIONS.
15. ALL PIPE TO BE BANDED AND GROUTED.
16. RCP SHALL COMPLY WITH ALL A.S.T.M. APPLICABLE STANDARDS.
17. WORKING WITHIN LOS ANGELES COUNTY FLOOD CONTROL FACILITIES IS RESTRICTED TO THE PERIOD OF APRIL 15 TO OCTOBER 15.
18. ALL CATCH BASINS AND LOCAL DEPRESSIONS SHALL BE CONSTRUCTED PER STREET IMPROVEMENT PLANS IN ACCORDANCE WITH THE 2021 SPPWC PLANS.
19. THE CONTRACTOR SHALL CONDUCT CONSTRUCTION OPERATIONS IN SUCH A MANNER THAT STORM OR OTHER WATERS MAY PROCEED UNINTERRUPTED ALONG THEIR EXISTING STREET OR DRAINAGE COURSES.
20. IN THE COURSE OF WATER CONTROL, THE CONTRACTOR SHALL CONDUCT CONSTRUCTION OPERATIONS TO PROTECT WATERS FROM POLLUTION WITH FUELS, OILS, BITUMENS, OR HARMFUL MATERIALS.
21. LOCAL DEPRESSIONS AND DECKS OF CURB INLETS SHALL NOT BE POURED UNTIL ADJACENT CURB AND GUTTER HAS BEEN POURED.
22. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AFFECTED CATCH BASINS WITH APPROPRIATE INLET PROTECTION (INCLUDING BLACK FILTER FABRIC AND SANDBAGS) AND ENSURE THAT ALL SEDIMENT, DIRT, AND MATERIALS FROM THE CONSTRUCTION SITE DO NOT ENTER THE CATCH BASINS.
23. ANY SEDIMENT BLOCKING DRAINAGE INLETS THAT CREATE STANDING WATER ON ROADWAYS AND/OR DRIVEWAYS SHALL BE REMOVED IMMEDIATELY.

EROSION CONTROL NOTES

1. APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SOIL DISTURBANCE. MEASURES SHALL BE TAKEN TO CONTROL EROSION WITHIN THE PROJECT AREA. SEDIMENT IN RUNOFF WATER SHALL BE TRAPPED AND RETAINED WITHIN THE PROJECT AREA.
2. MINIMIZE SOIL EROSION AND CONTROL SEDIMENTATION DURING CONSTRUCTION.
3. PROTECT AND MANAGE ON AND OFF-SITE MATERIAL STORAGE AREAS (OVERBURDEN AND STOCKPILES OF DIRT, BORROW AREAS, OR OTHER AREAS USED SOLELY BY THE PERMITTED PROJECT ARE CONSIDERED A PART OF THE PROJECT).
4. SOIL STOCKPILES MUST BE STABILIZED OR COVERED AT THE END OF EACH WORKDAY. ALL STOCKPILES SHALL BE SURROUNDED BY SEDIMENT CONTROLS.
5. COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS INCLUDING WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS, AND AIR QUALITY REGULATIONS, INCLUDING DUST CONTROL.
6. DIVERT UNCONTAMINATED WATER AROUND DISTURBED AREAS.
7. AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM STREETS, CHECK BERMS AND BASINS.
8. PROPERLY MANAGE ON-SITE CONSTRUCTION AND WASTE MATERIALS.

BENCH MARK

BM 4G4053 ELEVATION =(291.026) FEET
NAVD 88, COVINA QUAD, 2005 QUAD YEAR

CSBM MON IN W. END C.B. 3.3FT E/O BCR 44FT N/O C/L GARVEY AVE & 98FT E/O C/L VALLEY BLVD MKD (BM 12-5A 1971 RE 7078)

COORDINATE DATUM

COORDINATES ARE BASED UPON N.A.D. 83, STATE PLANE COORDINATE SYSTEM, ZONE 5.

STANDARD PLANS FOR PUBLIC CONSTRUCTION (SPPWC)

(2021 EDITION & REVISIONS)

110-2	111-5	112-2	
120-3	122-3		
132-4	133-4		
225-2			
300-4	303-4	308-3	309-3
310-4	311-4	312-5	313-4
320-2	322-3	323-2	324-3
333-2			
342-2			
630-5	636-3		

CALTRANS STANDARDS

A20A
A20D
A24A
A24C
A24D

CITY OF EL MONTE STANDARDS

ST-100-2

SHEET INDEX

SHEET NO.	PLAN NO.	DESCRIPTION
1	T-1	TITLE SHEET
2	C-2	GENERAL NOTES, AND SHEET INDEX
3	C-3	CROSS SECTIONS, CONSTRUCTION NOTES, LEGEND, AND ABBREVIATIONS
4	C-4	GARVEY AVE. – DEMOLITION PLAN VALLEY BLVD TO 22+25
5	C-5	GARVEY AVE. – DEMOLITION PLAN STA 22+25 TO DURFEE AVE.
6	C-6	MAXSON ROAD AND MAXSON PLACE DEMOLITION PLAN
7	C-7	GARVEY AVE. – ST. IMPRVT. PLAN STA 10+00 TO 15+75
8	C-8	GARVEY AVE. – ST. IMPRVT. PLAN STA 15+75 TO 22+25
9	C-9	GARVEY AVE. – ST. IMPRVT. PLAN STA 22+25 TO 28+75
10	C-10	GARVEY AVE. – ST. IMPRVT. PLAN STA 28+75 TO DURFEE AVE.
11	C-11	MAXSON ROAD AND MAXSON PLACE – ST. IMPRVT. PLAN
12	C-12	CURB RAMP DETAILS
13	C-13	GARVEY AVE. – MONUMENT SIGN DETAILS
14	C-14	GARVEY AVE. – STRIPING PLAN STA 10+00 TO 22+25
15	C-15	GARVEY AVE. – STRIPING PLAN STA 22+25 TO DURFEE AVE.
16	C-16	STORMDRAIN PLAN AND PROFILE 2'H X 4'W RCB AND 36" RCP
17	C-17	STORM DRAIN LATERALS PLAN AND PROFILE LATERALS A, B, C, D, AND E
18	C-18	OVERFLOW LINE, HYDRODYNAMIC SEPARATOR UNIT AND INFILTRATION GALLERY LATERALS PLAN AND PROFILE
19	C-19	FOREBAY PLAN AND DETAILS
20	C-20	12" DISCHARGE LINE (ADDITIVE WORK)
21	C-21	STORM DRAIN DETAILS
22	C-22	STORM DRAIN DETAILS
23	C-23	HORIZONTAL CONTROL
24	C-24	TYPICAL INFILTRATION BASIN DETAILS
25	C-25	TYPICAL INFILTRATION BASIN DETAILS
26	C-26	TYPICAL INFILTRATION BASIN DETAILS
27	C-27	TRAFFIC CONTROL TITLE SHEET
28	C-28	TRAFFIC CONTROL PLAN – PHASE 1
29	C-29	TRAFFIC CONTROL PLAN – PHASE 1
30	C-30	TRAFFIC CONTROL PLAN – PHASE 1
31	C-31	TRAFFIC CONTROL PLAN – PHASE 2
32	C-32	TRAFFIC CONTROL PLAN – PHASE 2
33	C-33	TRAFFIC CONTROL PLAN – PHASE 2
34	C-34	TRAFFIC CONTROL PLAN – PHASE 3
35	C-35	TRAFFIC CONTROL PLAN – PHASE 3
36	C-36	TRAFFIC CONTROL PLAN – PHASE 3
37	C-37	DETOUR PLAN
38	C-38	TRAFFIC CONTROL PLAN – PHASE 4
39	C-39	TRAFFIC CONTROL PLAN – PHASE 4
40	C-40	TRAFFIC CONTROL PLAN – PHASE 4
41	C-41	TRAFFIC CONTROL PLAN – PHASE 5
42	C-42	TRAFFIC CONTROL PLAN – PHASE 5
43	C-43	EROSION CONTROL PLAN
44	C-44	EROSION CONTROL PLAN
45	L-01	IRRIGATION PLAN
46	L-02	IRRIGATION PLAN
47	L-03	IRRIGATION LEGEND/FORMS AND NOTES
48	L-04	IRRIGATION DETAILS
49	L-05	PLANTING PLAN
50	L-06	PLANTING PLAN
51	L-07	PLANTING DETAILS AND NOTES
52	E-01	ELECTRICAL PLAN
53	E-02	ELECTRICAL PLAN

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER – WILLIAM F. YOUNG – No. C 35715 – Exp. 09/30/23 – CIVIL – STATE OF CALIFORNIA

CITY OF EL MONTE – HERE'S THE CENTER OF IT ALL – INC. TRAIL 1912 – CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

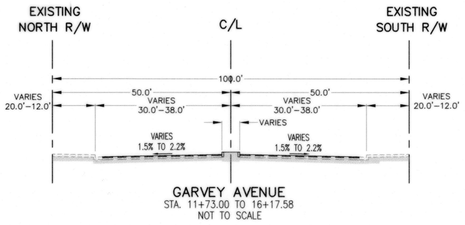
APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23 DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
GENERAL NOTES
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

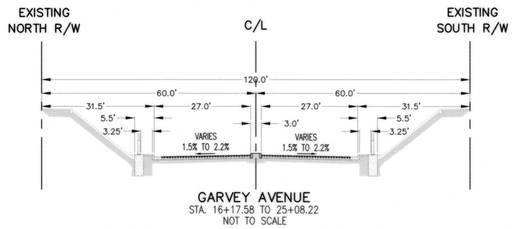
CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
	DRAWN BY: MN
SCALE AS SHOWN	CHECKED BY: WY
PLAN NUMBER	C-2
SHEET 2 OF 53	

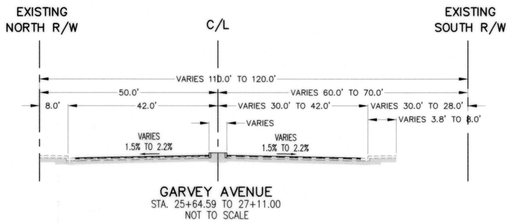
Plotted: Feb 06, 2023 – 8:31AM J:\CIVIL\CIP\884 Design\GS Sheets\C-2 GENERAL NOTES.dwg



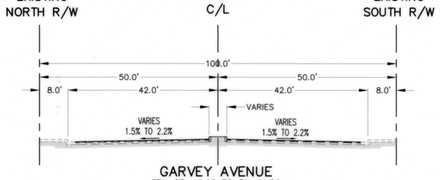
GARVEY AVENUE
STA. 11+73.00 TO 16+17.58
NOT TO SCALE



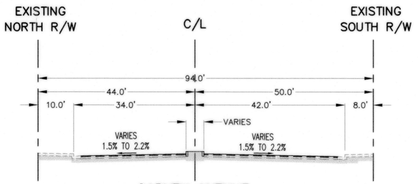
GARVEY AVENUE
STA. 16+17.58 TO 25+08.22
NOT TO SCALE



GARVEY AVENUE
STA. 25+64.59 TO 27+11.00
NOT TO SCALE



GARVEY AVENUE
STA. 27+11.00 TO 31+41.80
NOT TO SCALE



GARVEY AVENUE
STA. 31+41.80 TO 32+00.00
NOT TO SCALE

DEMOLITION NOTES:

1. PROTECT IN PLACE
2. REMOVE EXISTING DRIVEWAY
3. REMOVE EXISTING CURB AND GUTTER
4. REMOVE EXISTING SIDEWALK
5. REMOVE EXISTING STREET LIGHT AND FOOTING
6. REMOVE EXISTING GRATE INLET STRUCTURE
7. REMOVE EXISTING CROSS GUTTER
8. REMOVE EXISTING ELECTRICAL PULL BOX
9. REMOVE IRRIGATION CONTROLLER
10. REMOVE EXISTING CONCRETE SLAB
11. REMOVE EXISTING TREE
12. REMOVE EXISTING AC PAVEMENT AND BASE AND POSSIBLE PCC UNDERNEATH
13. ABANDON EXISTING SD IN PLACE
14. REMOVE EXISTING GUARDRAIL
15. SAWCUT AND REMOVE EXISTING PCC PAVEMENT
16. REMOVE EXISTING SD LINE
17. SAWCUT AND REMOVE EXISTING PCC PAVEMENT (TRENCH EXCAVATION AREA)

STREET CONSTRUCTION NOTES:

30. GRIND AND OVERLAY 2" THICK EXISTING PAVEMENT
31. CONSTRUCT 6" AC OVER 14" AB
32. ADJUST SEWER MANHOLE TO GRADE
33. ADJUST WATER VALVE TO GRADE
34. CONSTRUCT 6" CURB A1-6 PER SPPWC STD. PLAN NO. 120-3
35. CONSTRUCT 8" CURB A2-8 PER SPPWC STD. PLAN NO. 120-3
36. CONSTRUCT 4" THICK PCC SIDEWALK
37. CONSTRUCT DRIVEWAY APPROACHES TYPE "A" PER SPPWC STD. PLAN NO. 110-2
38. CONSTRUCT CURB RAMP PER SPPWC STD. PLAN NO. 111-5 (TYPE PER PLAN)
39. INSTALL STREET LIGHTING AND FOUNDATION PER ELECTRICAL PLAN
40. CONSTRUCT 3" AC OVER 5" AB
41. INSTALL STREET SIGN AS NOTED, WITH POST
42. CONSTRUCT CROSS GUTTER PER SPPWC STD. PLAN NO. 122-3
43. ADJUST PULL BOX TO GRADE
44. INSTALL MONUMENT SIGN PER DETAIL ON SHEET 13
45. PERMANENT RESURFACING PER SPPWC STD. PLAN NO. 132-4

STRIPING CONSTRUCTION NOTES:

50. INSTALL 6" WHITE THERMOPLASTIC STRIPING AND TYPE G PAVEMENT MARKERS PER DETAIL 9, CALTRANS STD. PLAN A20A
51. INSTALL BIKE LANE INTERSECTION EXTENSION PER DETAIL 39A, SHEET 14, LENGTH PER PLAN
52. INSTALL WHITE THERMOPLASTIC PAVEMENT MARKING PER CALTRANS STD. PLANS A24A, A24C, AND A24D, TYPE PER PLAN
53. INSTALL WHITE THERMOPLASTIC PARKING STALL STRIPING PER DETAIL "B", SHEET 14, NUMBER OF STALLS PER PLAN
54. INSTALL BIKE LANE SYMBOL WITH PERSON AND BIKE LANE ARROW PER CALTRANS STD. PLANS A24A AND A24C. USE WHITE PRE-FORMED THERMOPLASTIC.
55. INSTALL SHARED ROADWAY BICYCLE MARKING PER CALTRANS STD. PLAN A24C. USE WHITE PRE-FORMED THERMOPLASTIC
56. INSTALL CROSSWALK PER CITY OF EL MONTE STD. ST-100-2 USING THERMOPLASTIC STRIPING, COLOR PER PLAN
57. INSTALL 8" WHITE THERMOPLASTIC DIAGONAL STRIPING
58. INSTALL 6" WHITE THERMOPLASTIC STRIPING PER DETAIL 39, CALTRANS STD. PLAN A20D
59. INSTALL 8" WHITE THERMOPLASTIC STRIPING AND TYPE G PAVEMENT MARKERS PER DETAIL 38, CALTRANS STD. PLAN A20D, LENGTH PER PLAN
60. INSTALL 6" WHITE THERMOPLASTIC STRIPING AND TYPE G PAVEMENT MARKERS PER DETAIL "A", SHEET 14
61. INSTALL 12" WHITE THERMOPLASTIC LIMIT LINE
62. INSTALL RED CURB PAINT ON TOP AND FACE OF CURB IN "NO PARKING ANYTIME" AREA
63. INSTALL 6" DOUBLE YELLOW THERMOPLASTIC STRIPING, LENGTH PER PLAN

STORM DRAIN CONSTRUCTION NOTES:

70. INSTALL 18" RCP (D-LOAD PER PLAN)
71. INSTALL 36" RCP (D-LOAD PER PLAN)
72. INSTALL 4'W x 2'H RCB
73. CONSTRUCT WEIR STRUCTURE PER DETAIL 2 ON SHEET 21
74. CONSTRUCT LOCAL DEPRESSION PER SPPWC STD. PLAN NO. 313-4, CASE PER PLAN
75. CONSTRUCT CURB OPENING CATCH BASIN PER SPPWC STD. PLAN NO. 300-4 (W, V, AND H PER PLAN) WITH MONOLITHIC CONNECTION PER SPPWC STD. PLAN NO. 308-3
76. CONSTRUCT MANHOLE PER SPPWC STD. PLAN NO. 322-3 (A=45', B=36", C=7.12', D1=48", D2=48", ELEV R=289.11, ELEV S=289.41)
77. CONSTRUCT MANHOLE PIPE TO PIPE STRUCTURE PER SPPWC STD. PLAN NO. 320-2
78. CONSTRUCT MODIFIED MANHOLE WITH DIVERSION STRUCTURE PER DETAIL 5 ON SHEET 21
79. CONSTRUCT MANHOLE – CONCRETE BOX STORM DRAIN PER SPPWC STD. PLAN NO. 323-2
80. CONSTRUCT TRANSITION STRUCTURE 18" RCP TO 4'W x 2'H RCB PER SPPWC STD. PLAN NO. 342-2
81. BACKFILL WITH TRENCH BACKFILL SLURRY
82. EXISTING UTILITY TO BE RELOCATED BY OTHERS; CONTRACTOR RESPONSIBLE TO NOTIFY OTHER AGENCIES
83. INSTALL 54" DIA. 1/2" WALL STEEL CASING
84. CONSTRUCT CONCRETE ENCASEMENT FOR EXISTING SEWER PIPE AT CROSSING PER DETAIL 3 ON SHEET 21
85. CONSTRUCT JUNCTION STRUCTURE PER SPPWC STD. PLAN NO. 333-2
86. INSTALL HYDRODYNAMIC SEPARATOR UNIT PER DETAIL 4 ON SHEET 21
87. FURNISH AND INSTALL STORMTRAP PRECAST INFILTRATION BASIN (OR APPROVED EQUAL) PER SHEETS 24-26
88. CONSTRUCT CURBSIDE GRATING CATCH BASIN PER SPPWC STD. PLAN NON 303-4, 1 GRATE (BICYCLE SAFE)
89. INSTALL 5'W x 2'H RCB PER DETAIL HEREON
90. INSTALL 12" RCP (D-LOAD PER PLAN)
91. RECONNECT THE EXISTING 8" PIPE TO NEW CATCH BASIN, INVERT PER PLAN
92. INSTALL 24" LONG x 24" WIDE BOTTOMLESS DROP INLET WITH TRAFFIC RATED GRATE (H-20 LOADING) PER DETAIL A HEREON
93. INSTALL 12" SCH 40 PVC, BEDDING, AND BACKFILL
94. CORE CUT HOLE OF DISCHARGE BOX AND CONNECT THE 12" PVC
95. REMOVE AND REPLACE WROUGHT IRON GATE
96. REMOVE AND REPLACE CHAIN LINK FENCE

EROSION CONTROL NOTES:

100. STREET SWEEPING AND VACUUMING (BMP SE-7)
101. INSTALL STORM DRAIN INLET PROTECTION (BMP SE-10)
102. INSTALL CHECK DAM (SE-4)

LEGEND

	FIRE HYDRANT
	WATER VALVE
	GAS VALVE
	STREET LIGHT STD.
PB	ELEC. PULL BOX
	GUY WIRE
	MANHOLE
	VAULT
	CENTER OF STREET
CATV	CABLE TV
G	GAS (NATURAL)
OHE	OVERHEAD LINE
S	SEWER
SD	STORM DRAIN
W	WATER
	LIMITS OF WORK
B-X	BORING LOCATION. REFER TO GEOTECHNICAL REPORT

ABBREVIATIONS

AVE	AVENUE
BLVD	BOULEVARD
℄ OR CL	CENTER LINE
EX.	EXISTING
FS	FINISHED SURFACE
HWY	HIGHWAY
INV	INVERT
LF	LINEAL FEET
MH	MANHOLE
ℙ OR PL	PROPERTY LINE
PP	POWER POLE
PR.	PROPOSED
RD	ROAD
STA	STATION
TC	TOP OF CURB
WM	WATER METER
WV	WATER VALVE

ALL OTHER ABBREVIATIONS PER STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC)

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:

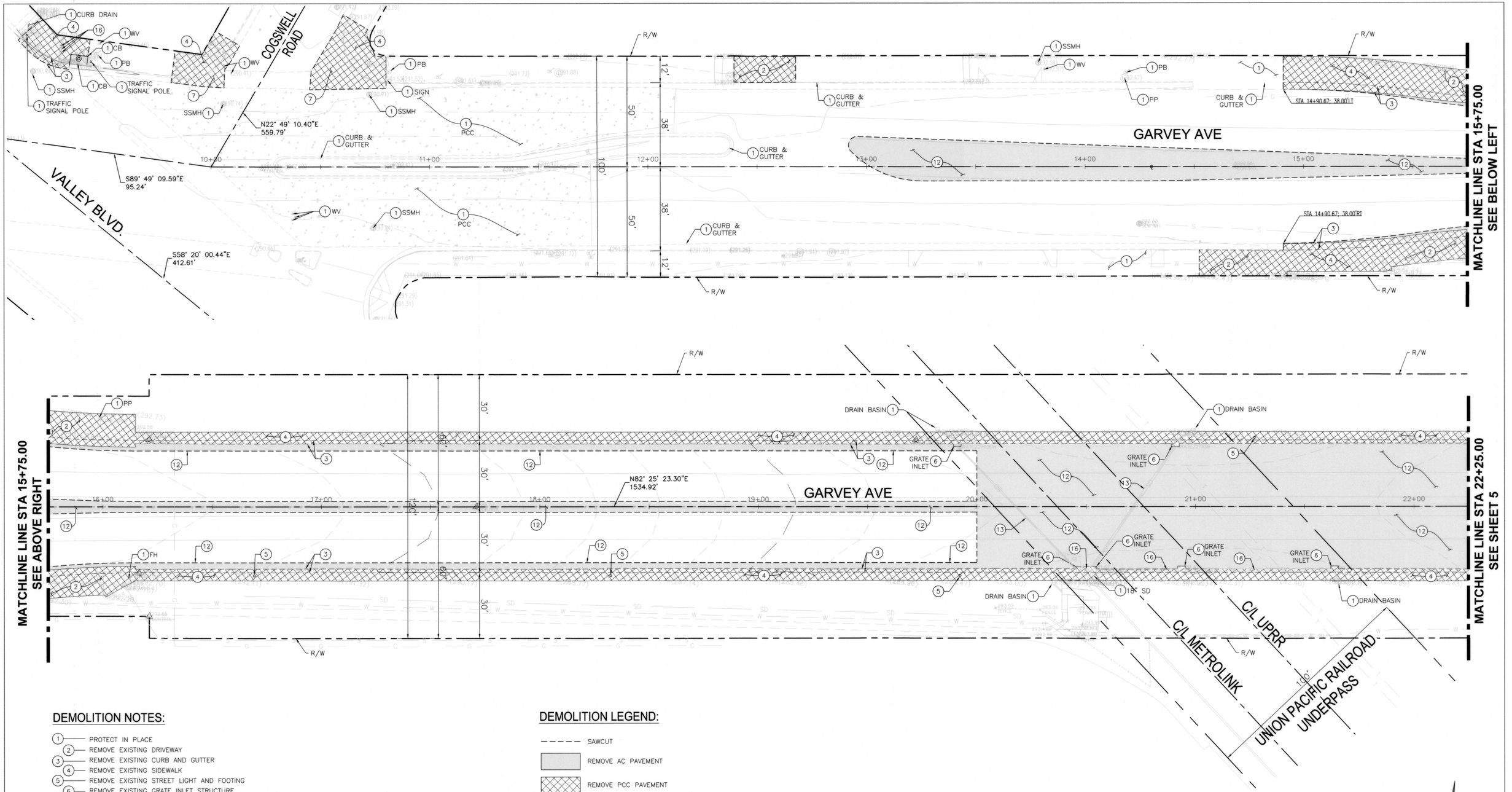
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ

DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
CROSS SECTIONS, CONSTRUCTION NOTES, LEGEND AND ABBREVIATIONS
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-3
SHEET 3 OF 53	



DEMOLITION NOTES:

1. PROTECT IN PLACE
2. REMOVE EXISTING DRIVEWAY
3. REMOVE EXISTING CURB AND GUTTER
4. REMOVE EXISTING SIDEWALK
5. REMOVE EXISTING STREET LIGHT AND FOOTING
6. REMOVE EXISTING GRATE INLET STRUCTURE
7. REMOVE EXISTING CROSS GUTTER
12. REMOVE EXISTING AC PAVEMENT, BASE, AND POSSIBLE PCC UNDERNEATH
13. ABANDON EXISTING SD IN PLACE
16. REMOVE EXISTING SD LINE

NOTE:

ALL STATIONS ARE LABELED BASED ON THE CENTERLINE STATIONING

DEMOLITION LEGEND:

- SAWCUT
- REMOVE AC PAVEMENT
- REMOVE PCC PAVEMENT

20' 10' 0 20'

SCALE: 1"= 20'

811 Know what's below. Call before you dig.

REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
DATE 4-20-23

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
GARVEY AVE. - DEMOLITION PLAN
VALLEY BLVD TO STA 22+25.00
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT	
CIP No. 884	
DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-4
SHEET 4	OF 53

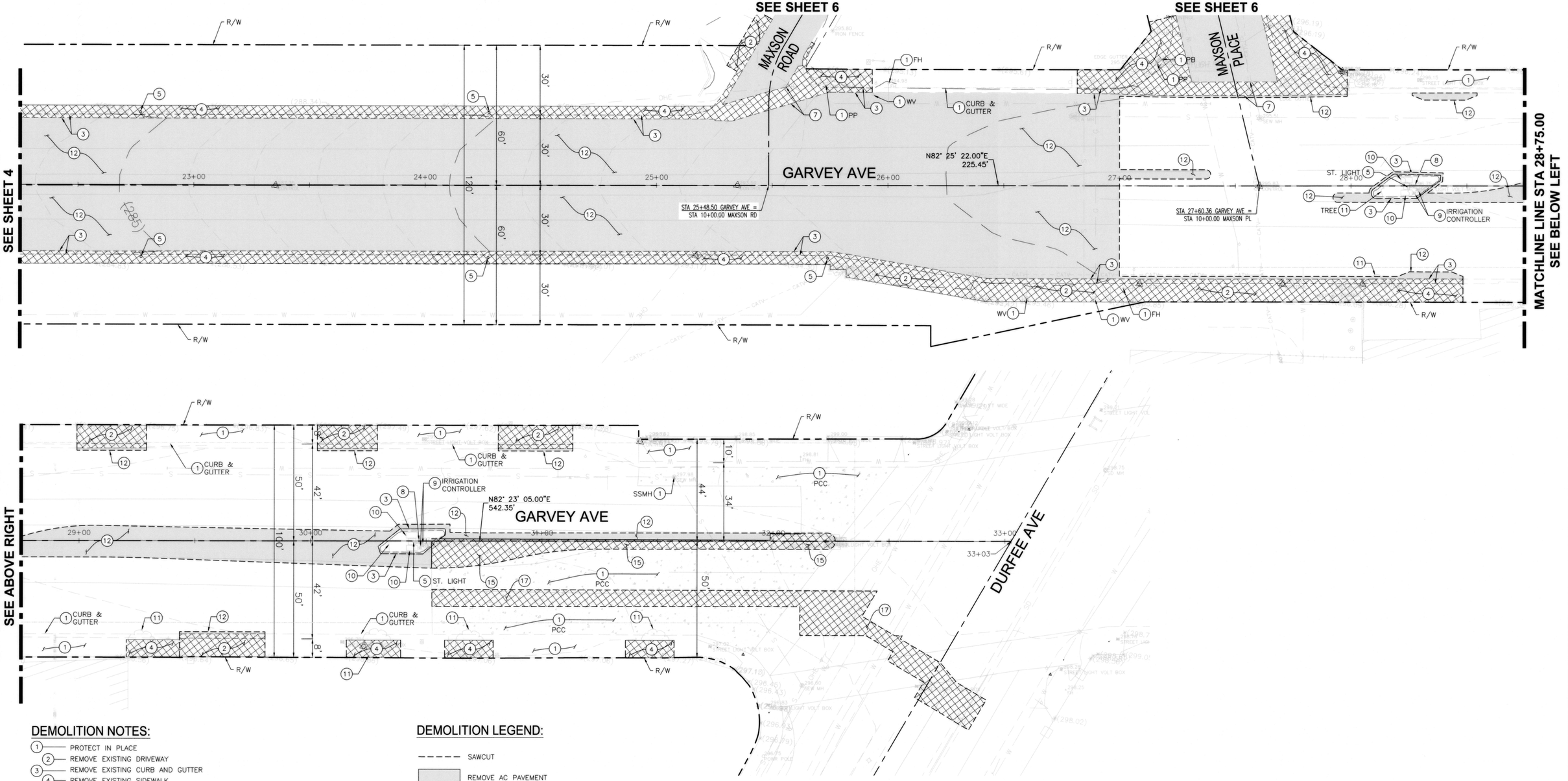
FOR MAXSON ROAD
SEE SHEET 6

FOR MAXSON PLACE
SEE SHEET 6

MATCHLINE LINE STA 22+25.00
SEE SHEET 4

MATCHLINE LINE STA 28+75.00
SEE BELOW LEFT

MATCHLINE LINE STA 28+75.00
SEE ABOVE RIGHT



DEMOLITION NOTES:

1. PROTECT IN PLACE
2. REMOVE EXISTING DRIVEWAY
3. REMOVE EXISTING CURB AND GUTTER
4. REMOVE EXISTING SIDEWALK
5. REMOVE EXISTING STREET LIGHT AND FOOTING
6. REMOVE EXISTING GRATE INLET STRUCTURE
7. REMOVE EXISTING CROSS GUTTER
8. REMOVE EXISTING ELECTRICAL PULL BOX
9. REMOVE IRRIGATION CONTROLLER
10. REMOVE EXISTING CONCRETE SLAB
11. REMOVE EXISTING TREE
12. REMOVE EXISTING AC PAVEMENT, BASE, AND POSSIBLE PCC UNDERNEATH
15. SAWCUT AND REMOVE EXISTING PCC PAVEMENT
17. SAWCUT AND REMOVE EXISTING PCC PAVEMENT (TRENCH EXCAVATION AREA)

NOTE:

ALL STATIONS ARE LABELED BASED ON THE CENTERLINE STATIONING

DEMOLITION LEGEND:

- SAWCUT
- REMOVE AC PAVEMENT
- REMOVE PCC PAVEMENT

20' 10' 0 20'

SCALE: 1"= 20'

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

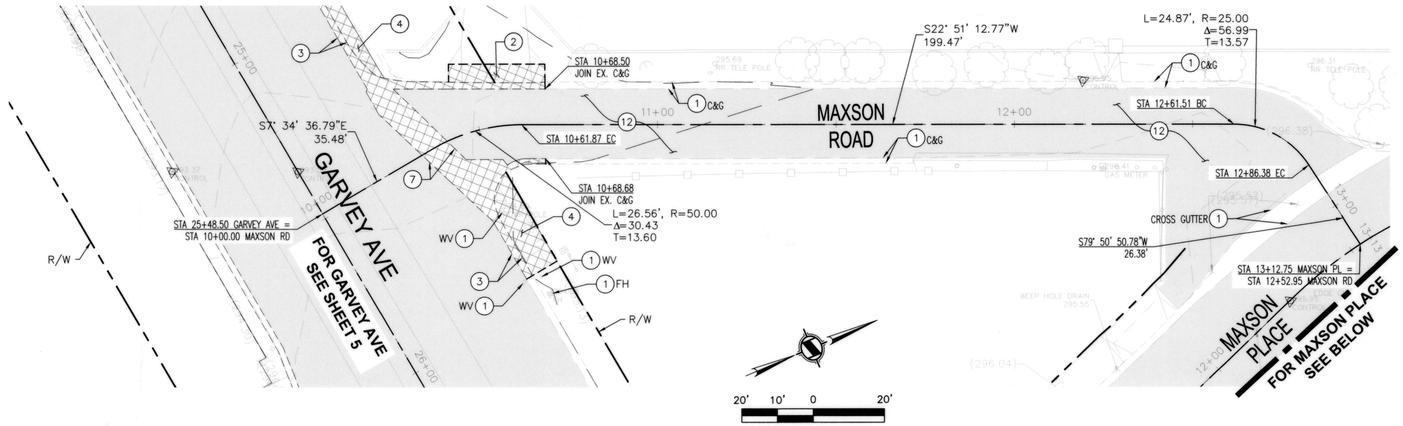
CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23 DATE

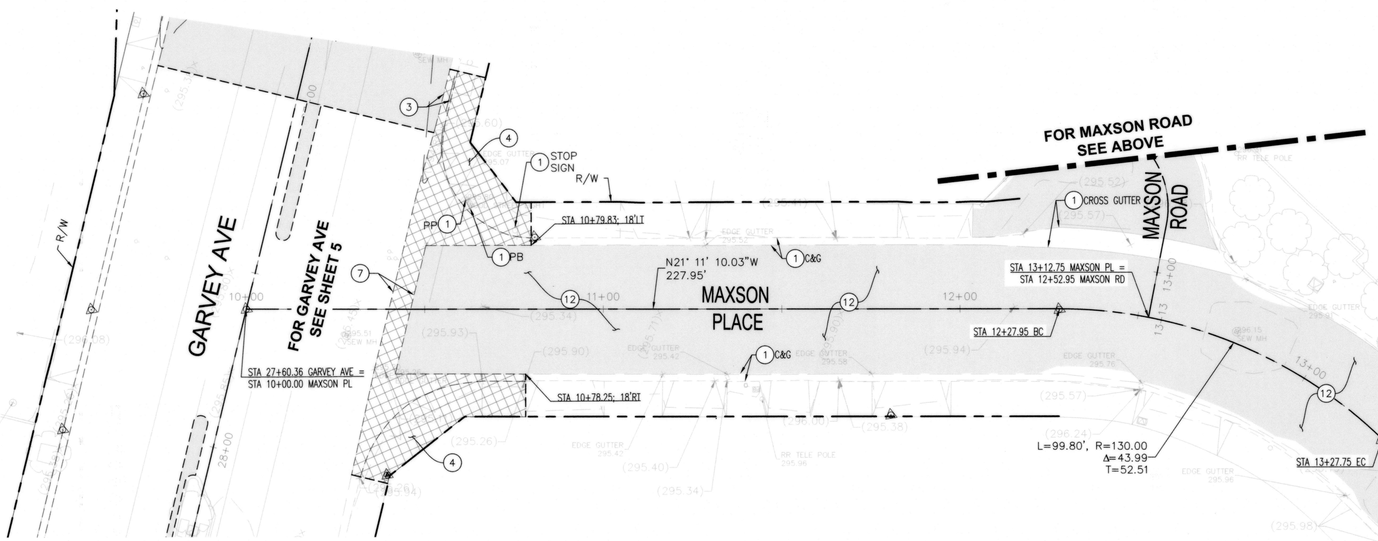
CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
GARVEY AVE. - DEMOLITION PLAN
STA 22+25.00 TO DURFEE AVE.
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
	DRAWN BY: MN
SCALE AS SHOWN	CHECKED BY: WY
PLAN NUMBER C-5	
SHEET 5 OF 53	



SCALE: 1"= 20'



SCALE: 1"= 20'

DEMOLITION NOTES:

1. PROTECT IN PLACE
2. REMOVE EXISTING DRIVEWAY
3. REMOVE EXISTING CURB AND GUTTER
4. REMOVE EXISTING SIDEWALK
7. REMOVE EXISTING CROSS GUTTER
12. REMOVE EXISTING AC PAVEMENT, BASE, AND POSSIBLE PCC UNDERNEATH
14. REMOVE EXISTING GUARDRAIL

NOTE:

ALL STATIONS ARE LABELED BASED ON THE CENTERLINE STATIONING

SCALE: 1"= 20'

811 Know what's below. Call before you dig.

REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

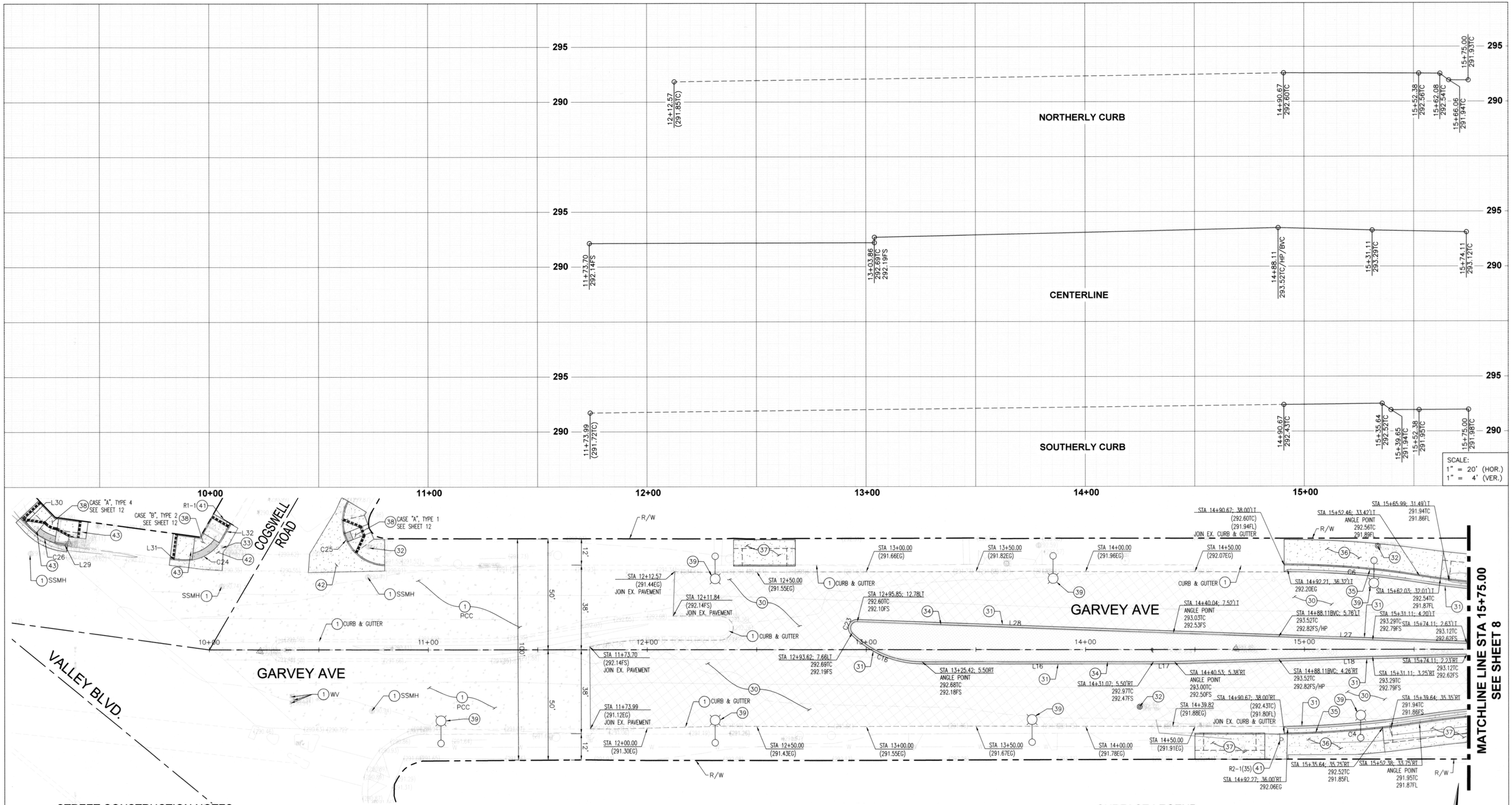
REGISTERED PROFESSIONAL ENGINEER WILLIAM F. YOUNG No. C 35715 Exp. 09/30/23 CIVIL STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23 DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
MAXSON ROAD AND MAXSON PLACE
DEMOLITION PLAN
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT	CIP No. 884
DATE 02/13/2023	DESIGNED BY: SB
	DRAWN BY: MN
SCALE AS SHOWN	CHECKED BY: WY
PLAN NUMBER	C-6
SHEET 6	OF 53



STREET CONSTRUCTION NOTES:

1. PROTECT IN PLACE
30. GRIND AND OVERLAY 2" THICK EXISTING PAVEMENT
31. CONSTRUCT 6" AC OVER 14" AB
32. ADJUST SEWER MANHOLE TO GRADE
33. ADJUST WATER VALVE TO GRADE
34. CONSTRUCT 6" CURB A1-6 PER SPPWC STD. PLAN NO. 120-3
35. CONSTRUCT 8" CURB A2-8 PER SPPWC STD. PLAN NO. 120-3
36. CONSTRUCT 4" THICK PCC SIDEWALK
37. CONSTRUCT DRIVEWAY APPROACHES TYPE "A" PER SPPWC STD. PLAN NO. 110-2
38. CONSTRUCT CURB RAMP PER SPPWC STD. PLAN NO. 111-5 (TYPE PER PLAN)
39. INSTALL STREET LIGHTING AND FOUNDATION PER ELECTRICAL PLAN
41. INSTALL STREET SIGN AS NOTED, WITH POST
42. CONSTRUCT CROSS GUTTER PER SPPWC STD. PLAN NO. 122-3
43. RELOCATE PULL BOX TO GRADE

NOTES:

ALL STATIONS ARE LABELED BASED ON THE CENTERLINE STATIONING

SURFACE LEGEND:

- AC PAVEMENT
- GRIND AND OVERLAY
- PCC PAVEMENT
- LANDSCAPING PER LANDSCAPE SHEETS

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

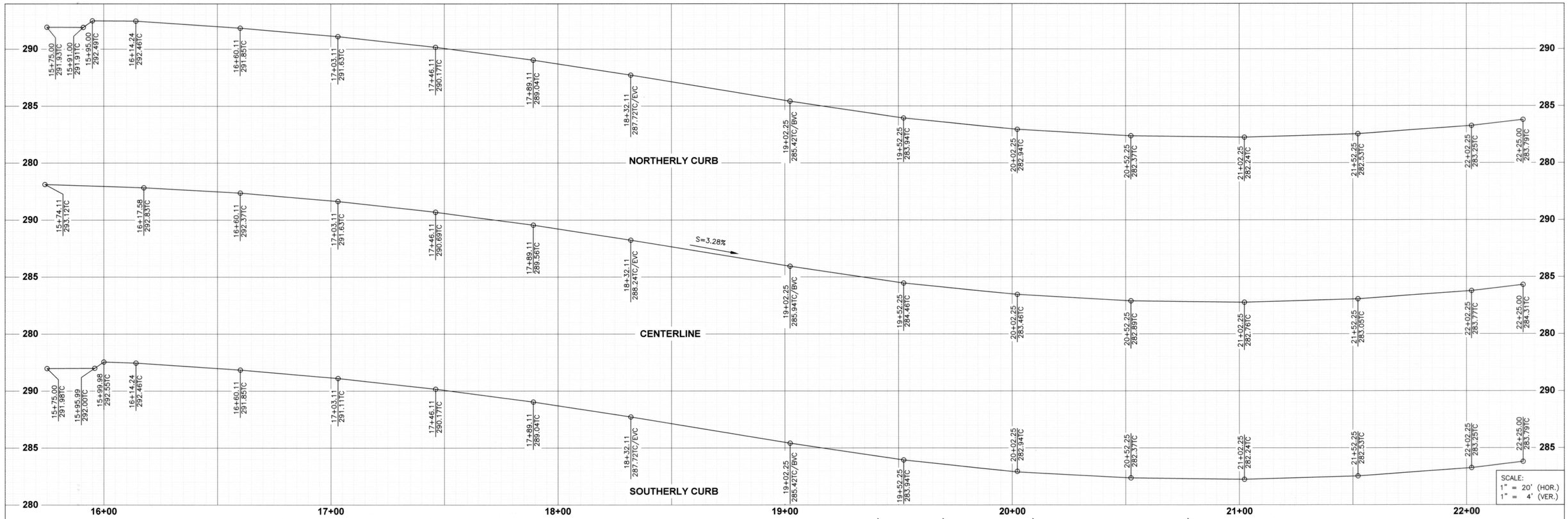
CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23
DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
GARVEY AVE. STREET IMPROVEMENT
STA 10+00.00 TO STA 15+75.00
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-7
SHEET 7 OF 53	



STREET CONSTRUCTION NOTES:

(1) PROTECT IN PLACE
(30) GRIND AND OVERLAY 2" THICK EXISTING PAVEMENT
(31) CONSTRUCT 6" AC OVER 14" AB
(32) ADJUST SEWER MANHOLE TO GRADE
(34) CONSTRUCT 6" CURB A1-6 PER SPPWC STD. PLAN NO. 120-3
(35) CONSTRUCT 8" CURB A2-8 PER SPPWC STD. PLAN NO. 120-3
(36) CONSTRUCT 4" THICK PCC SIDEWALK
(37) CONSTRUCT DRIVEWAY APPROACHES TYPE "A" PER SPPWC STD. PLAN NO. 110-2
(39) INSTALL STREET LIGHTING AND FOUNDATION PER ELECTRICAL PLAN

NOTES:

ALL STATIONS ARE LABELED BASED ON THE CENTERLINE STATIONING
REFER TO SHEETS 16-25 FOR DRAINAGE IMPROVEMENTS

SURFACE LEGEND:

AC PAVEMENT
GRIND AND OVERLAY
PCC PAVEMENT
LANDSCAPING PER LANDSCAPE SHEETS

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG
02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

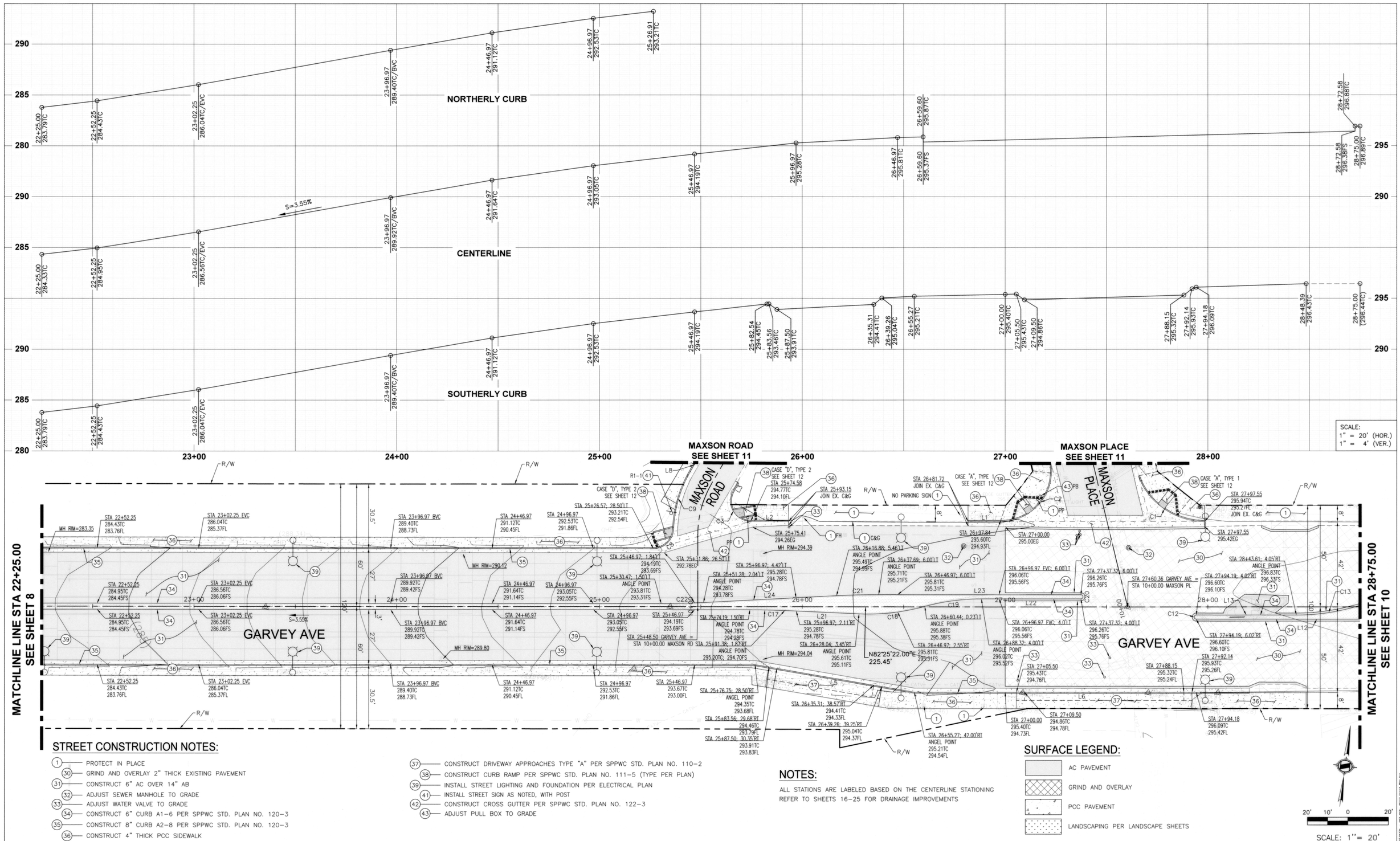
CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23
DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
GARVEY AVE. STREET IMPROVEMENT
STA 15+75.00 TO 22+25.00
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-8
SHEET 8 OF 53	



STREET CONSTRUCTION NOTES:

1. PROTECT IN PLACE
30. GRIND AND OVERLAY 2" THICK EXISTING PAVEMENT
31. CONSTRUCT 6" AC OVER 14" AB
32. ADJUST SEWER MANHOLE TO GRADE
33. ADJUST WATER VALVE TO GRADE
34. CONSTRUCT 6" CURB A1-6 PER SPPWC STD. PLAN NO. 120-3
35. CONSTRUCT 8" CURB A2-8 PER SPPWC STD. PLAN NO. 120-3
36. CONSTRUCT 4" THICK PCC SIDEWALK
37. CONSTRUCT DRIVEWAY APPROACHES TYPE "A" PER SPPWC STD. PLAN NO. 110-2
38. CONSTRUCT CURB RAMP PER SPPWC STD. PLAN NO. 111-5 (TYPE PER PLAN)
39. INSTALL STREET LIGHTING AND FOUNDATION PER ELECTRICAL PLAN
41. INSTALL STREET SIGN AS NOTED, WITH POST
42. CONSTRUCT CROSS GUTTER PER SPPWC STD. PLAN NO. 122-3
43. ADJUST PULL BOX TO GRADE

NOTES:

ALL STATIONS ARE LABELED BASED ON THE CENTERLINE STATIONING
REFER TO SHEETS 16-25 FOR DRAINAGE IMPROVEMENTS

SURFACE LEGEND:

- AC PAVEMENT
- GRIND AND OVERLAY
- PCC PAVEMENT
- LANDSCAPING PER LANDSCAPE SHEETS

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG
02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23
DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
GARVEY AVE. STREET IMPROVEMENT
STA 22+25.00 TO 28+75.00
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-9
SHEET 9 OF 53	



STREET CONSTRUCTION NOTES:

1. PROTECT IN PLACE
30. GRIND AND OVERLAY 2" THICK EXISTING PAVEMENT
31. CONSTRUCT 6" AC OVER 14" AB
34. CONSTRUCT 6" CURB A1-6 PER SPPWC STD. PLAN NO. 120-3
36. CONSTRUCT 4" THICK PCC SIDEWALK
37. CONSTRUCT DRIVEWAY APPROACHES TYPE "A" PER SPPWC STD. PLAN NO. 110-2
39. INSTALL STREET LIGHTING AND FOUNDATION PER ELECTRICAL PLAN
43. ADJUST PULL BOX TO GRADE
44. INSTALL MONUMENT SIGN PER DETAIL ON SHEET 13
45. PERMANENT RESURFACING PER SPPWC STD. PLAN NO. 132-4

SURFACE LEGEND:

- AC PAVEMENT
- GRIND AND OVERLAY
- PCC PAVEMENT
- LANDSCAPING PER LANDSCAPE SHEETS

NOTES:

ALL STATIONS ARE LABELED BASED ON THE CENTERLINE STATIONING
REFER TO SHEETS 16-25 FOR DRAINAGE IMPROVEMENTS

20' 10' 0 20'

SCALE: 1"= 20'

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

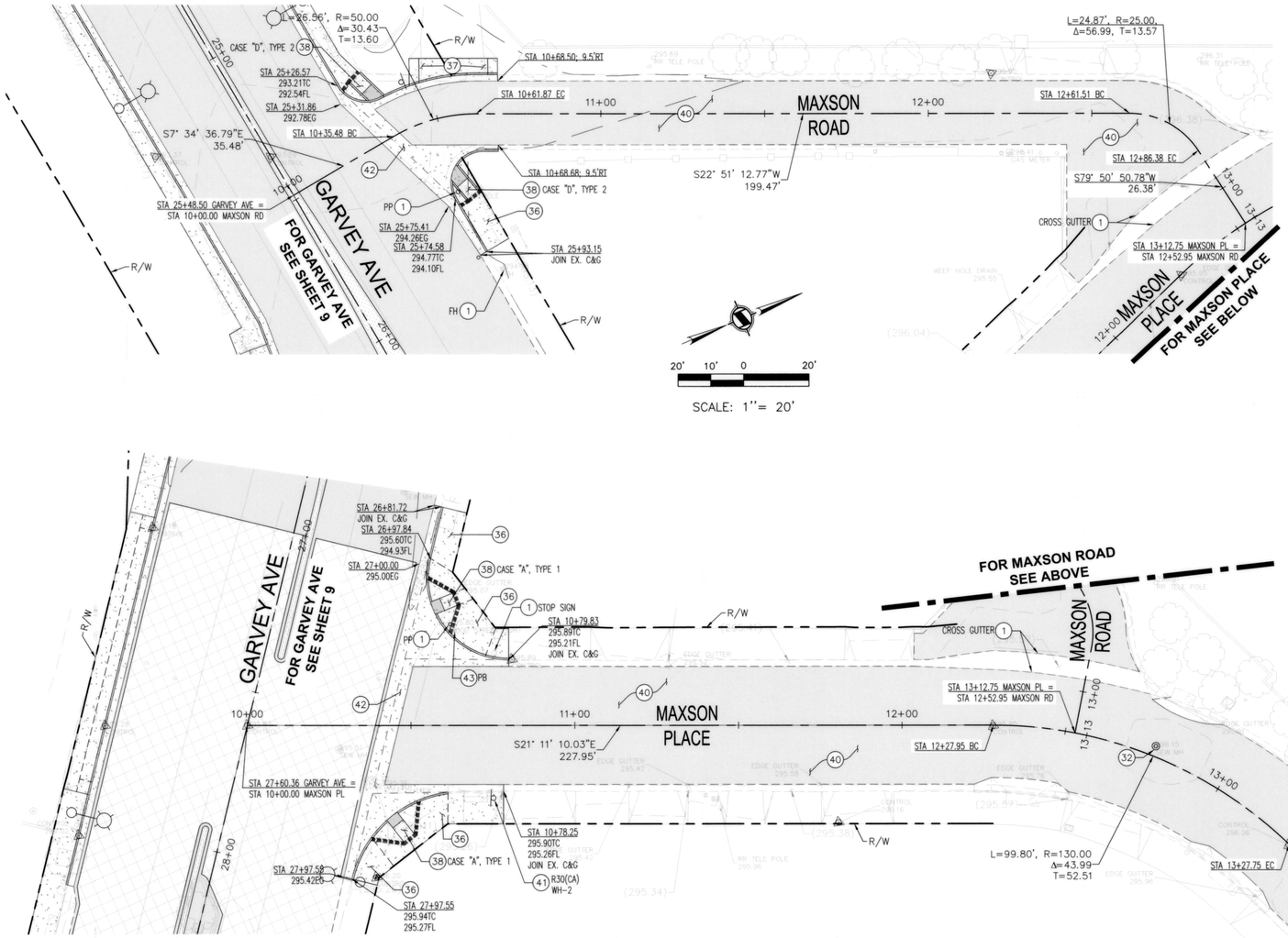
CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23
DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
GARVEY AVE. STREET IMPROVEMENT
STA 28+75.00 TO DURFEE AVE.
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-10
SHEET 10 OF 53	



SCALE: 1"= 20'

SCALE: 1"= 20'

STREET CONSTRUCTION NOTES:

1. PROTECT IN PLACE
32. ADJUST SEWER MANHOLE TO GRADE
36. CONSTRUCT 4" THICK PCC SIDEWALK
37. CONSTRUCT DRIVEWAY APPROACHES TYPE "A" PER SPPWC STD. PLAN NO. 110-2
38. CONSTRUCT CURB RAMP PER SPPWC STD. PLAN NO. 111-5 (TYPE PER PLAN)
40. CONSTRUCT 3" AC OVER 5" AB
41. INSTALL STREET SIGN AS NOTED, WITH POST
42. CONSTRUCT CROSS GUTTER PER SPPWC STD. PLAN NO. 122-3
43. ADJUST PULL BOX TO GRADE

SURFACE LEGEND:

- AC PAVEMENT
- GRIND AND OVERLAY
- PCC PAVEMENT
- LANDSCAPING PER LANDSCAPE SHEETS

NOTE:

ALL STATIONS ARE LABELED BASED ON THE CENTERLINE STATIONING

LINE TABLE		
LINE #	LENGTH (FT)	BEARING
L1	16.12	N82°25'23"E
L2	18.58	N82°25'23"E
L3	4.52	S22°51'13"W
L4	962.48	S82°25'23"W
L5	79.70	N87°49'31"W
L6	165.13	S82°25'23"W
L7	912.33	S82°25'23"W
L8	6.44	S22°51'13"W
L9	100.00	N82°22'54"E
L10	120.42	N84°24'19"E
L11	14.81	N83°24'51"E
L12	118.85	N82°25'23"E
L13	49.42	S82°25'23"W
L14	164.55	S83°27'34"W
L15	150.12	S82°23'05"W
L16	105.65	S82°25'23"W
L17	9.46	S81°44'44"W
L18	159.71	S81°04'06"W
L19	9.46	S81°44'44"W
L20	964.55	S82°25'23"W

LINE TABLE		
LINE #	LENGTH (FT)	BEARING
L21	36.69	S84°53'08"W
L22	48.99	S82°25'23"W
L23	99.63	N82°25'23"E
L24	65.69	N79°26'29"E
L25	918.20	N82°25'23"E
L26	14.59	N83°28'05"E
L27	157.75	N84°30'47"E
L28	144.29	N84°30'47"E
L29	2.59	S89°19'54"E
L30	6.27	S51°04'59"E
L31	4.12	S89°47'08"W
L32	7.95	S22°50'52"W

CURVE TABLE				
CURVE #	LENGTH (FT)	RADIUS	DELTA	TANGENT
C1	42.00	35.00	68.75	23.94
C2	45.21	25.00	103.61	31.77
C3	21.02	10.00	120.43	17.47
C4	62.03	449.60	7.90	31.06
C5	62.01	421.41	8.43	31.06
C6	62.04	389.56	9.12	31.09
C7	62.04	390.52	9.10	31.09
C8	15.29	10.00	87.58	9.59
C9	30.33	62.00	28.03	15.47
C10	35.20	150.26	13.42	17.68
C11	40.50	150.26	15.44	20.37
C12	3.14	1.00	180.00	INFINITY
C13	32.05	105.00	17.49	16.15
C14	33.94	105.00	18.52	17.12
C15	7.85	2.50	180.00	INFINITY
C16	35.31	45.00	44.96	18.62
C17	17.19	400.00	2.46	8.60
C18	32.74	105.00	17.87	16.50
C19	28.23	105.00	15.40	14.20
C20	3.14	1.00	180.00	INFINITY

CURVE TABLE				
CURVE #	LENGTH (FT)	RADIUS	DELTA	TANGENT
C21	20.82	400.00	2.98	10.41
C22	20.82	400.00	2.98	10.41
C23	7.18	3.00	137.13	7.64
C24	23.37	20.00	66.94	13.22
C25	40.79	20.00	116.85	32.54
C26	16.69	25.00	38.25	8.67

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG
02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

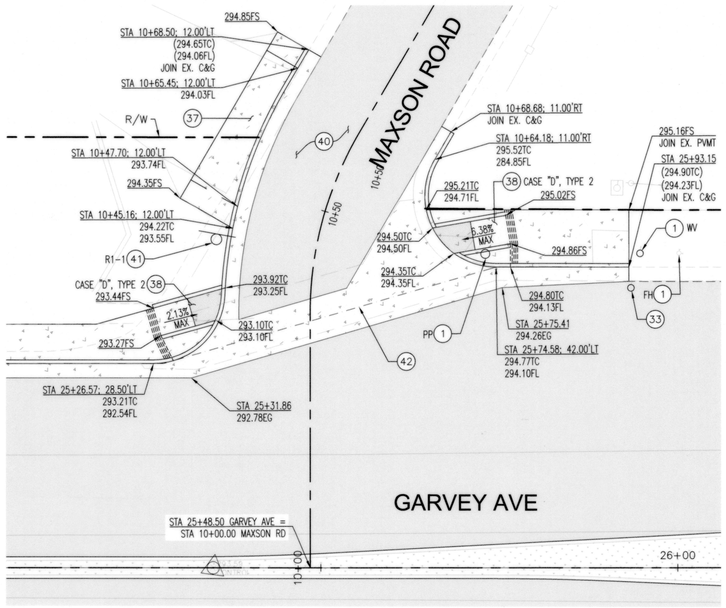
APPROVED BY:
REVIEWED AND RECOMMENDED BY
GUILLERMO PEREZ
4-20-23
DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
MAXSON ROAD AND MAXSON PLACE
STREET IMPROVEMENT
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

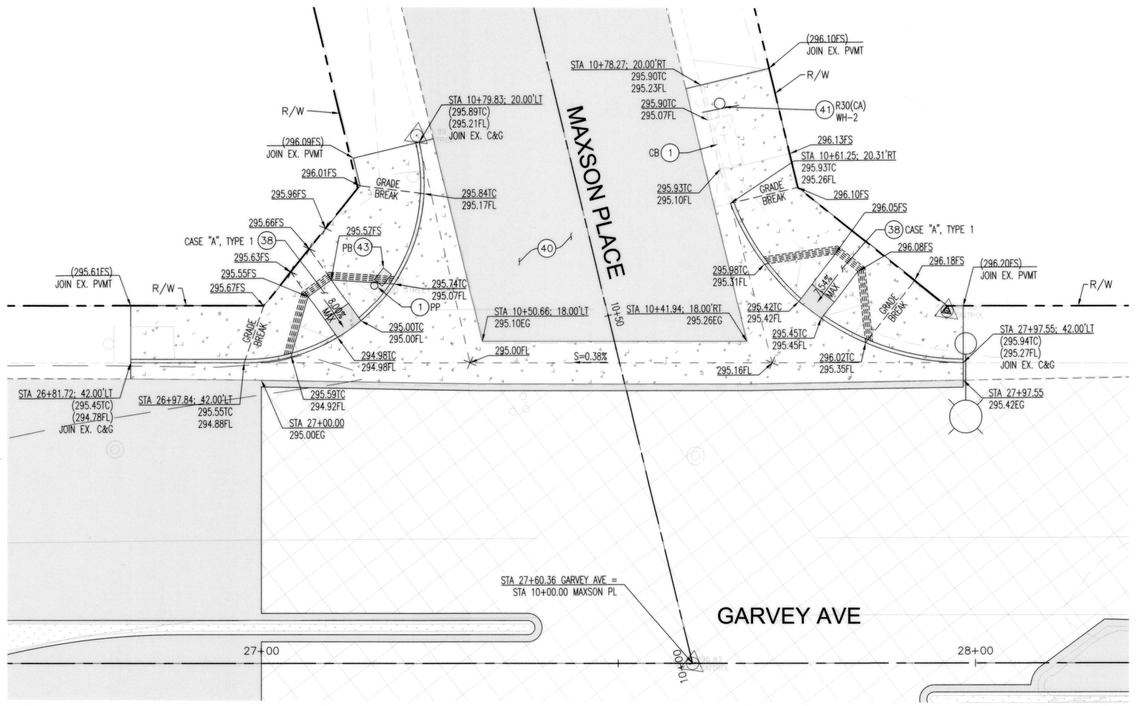
CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
	DRAWN BY: MN
SCALE AS SHOWN	CHECKED BY: WY
PLAN NUMBER	C-11
SHEET 11 OF 53	

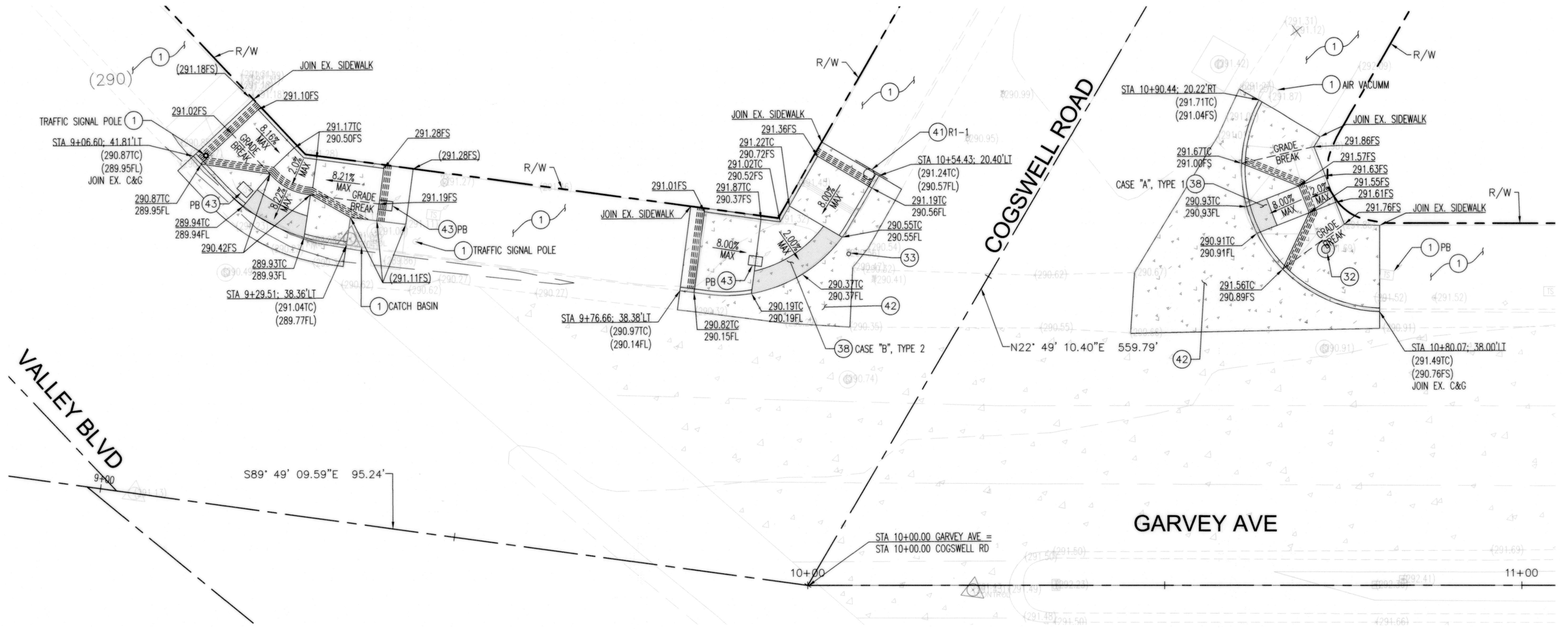
Drawing Name: Z:\CIP\884 - Maxson\05 - Design\05.02\CIP884 - C11 - Maxson Rd and Maxson Pl.dwg
Plot Date: Jan 26, 2023 - 3:56pm
PLOTTED BY: mingyan



SCALE: 1"= 10'



SCALE: 1"= 10'



STREET CONSTRUCTION NOTES:

1. PROTECT IN PLACE
32. ADJUST SEWER MANHOLE TO GRADE
33. ADJUST WATER VALVE TO GRADE
37. CONSTRUCT DRIVEWAY APPROACHES TYPE "A" PER SPPWC STD. PLAN NO. 110-2
38. CONSTRUCT CURB RAMP PER SPPWC STD. PLAN NO. 111-5 (TYPE PER PLAN)
40. CONSTRUCT 3" AC OVER 5" AB
41. INSTALL STREET SIGN AS NOTED, WITH POST
42. CONSTRUCT CROSS GUTTER PER SPPWC STD. PLAN NO. 122-3
43. ADJUST PULL BOX TO GRADE

811 Know what's below. Call before you dig.

REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
DATE 4-20-23

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

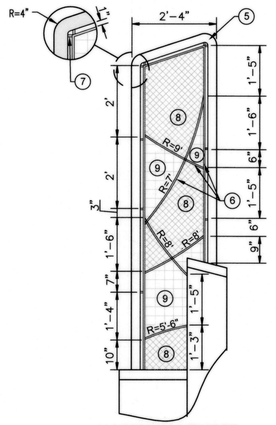
CURB RAMP DETAILS

GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

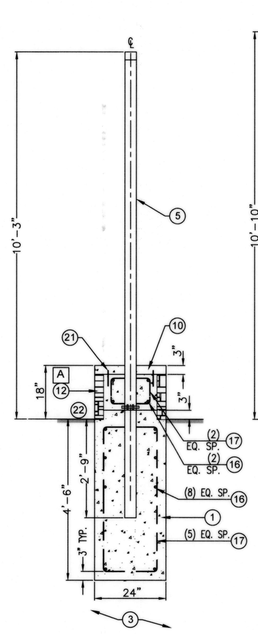
CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
	DRAWN BY: MN
SCALE AS SHOWN	CHECKED BY: WY
PLAN NUMBER	C-12
SHEET 12 OF 53	

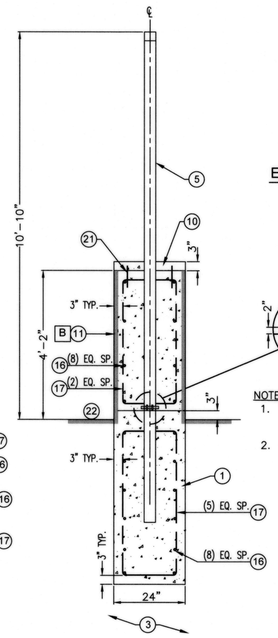
DRAWING NAME: C:\CAD\PLAN Temp\3D Prints\PLAN SHEETS - C12 - Maxson Rd and Maxson Pl Curb Ramp.dwg
PLOT DATE: Jan 06, 2023 - 2:08pm PLOTTED BY: mnguyen



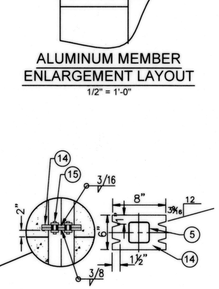
ALUMINUM MEMBER ENLARGEMENT LAYOUT
1/2" = 1'-0"



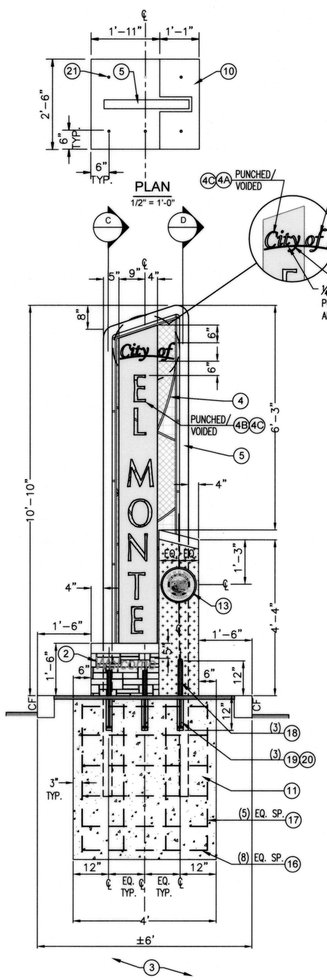
CROSS SECTION C
1/2" = 1'-0"



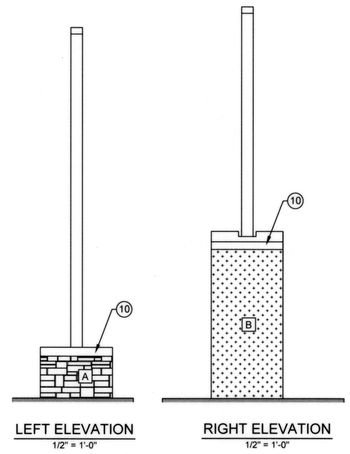
CROSS SECTION D
1/2" = 1'-0"



NOTES:
1. APPLY $\frac{1}{16}$" PARAFFIN WAX COATING ON MOUNTING PLATE FACES PRIOR TO ALUM. PIPE INSTALLATION.
2. BOTTOM PLATE SIMILAR W/BOLT HOLES

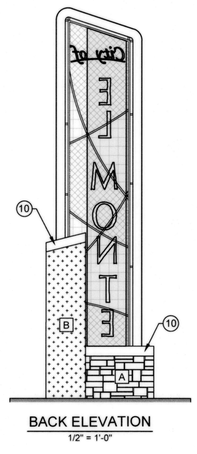


FRONT SECTIONAL ELEVATION
1/2" = 1'-0"



LEFT ELEVATION
1/2" = 1'-0"

RIGHT ELEVATION
1/2" = 1'-0"



BACK ELEVATION
1/2" = 1'-0"

CONSTRUCTION LEGEND

1. CONCRETE FOOTING. SEE SIGN INSTALLATION NOTE NO. 1
2. 1" THICK CAST ALUMINUM LETTERING STOCK (VERTICAL ORIENTATION)
   - FONT: ITALIC ARIAL
   - HT.: 4" (UPPER CASE), 3" (LOWER CASE)
   - MIN. (2) $\frac{3}{8}$"ø X 1½" LONG WELDED STUDS EA. LETTER FOR ANCHORING

   POWDER COAT FINISH, COLOR: WHITE
3. 95% COMPACTED SUBGRADE
4. $\frac{3}{16}$" THICK ALUMINUM SHEETING PANEL WITH PUNCHED (VOIDED) LETTERING AND WELDED CUT-OUT LETTERS. SEE 4A, 4B, AND 4C FOR LETTER SPECIFICATIONS. WELD SHEETING PANEL TO ALUMINUM BARS (NO. 7) FOR ATTACHMENT
   POWDER COAT FINISH, COLOR: RAL5017
   - 4A FONT: MONOTYPE CORSIVA HT.: 4" (UPPER CASE), 3" (LOWER CASE) (VERTICAL ORIENTATION)
   - 4B FONT: OPTIMA HT.: 9" (UPPER CASE) (VERTICAL ORIENTATION)
   - 4C ADD SET OF ¼" LASER CUT LETTERS, CUT OVERSIZE TO SHAPE OF PUNCHED/VOIDED LETTERS. LETTERS TO BE +/- ¼" LARGER ALL AROUND TO COVER CUT-THROUGH LETTERS. COVERING LETTERS TO BE REFLECTIVE WHITE VINYL. POWDER COAT FINISH, COLOR: WHITE
5. 3"X3"X$\frac{3}{16}$" SQ. ALUMINUM TUBE, BEND AT THE LOCATION SHOWN ON DETAIL. POWDER COAT FINISH, COLOR: RAL5017
6. ½"X3" ALUMINUM BAR, BEND AT THE LOCATION SHOWN ON DETAIL. POWDER COAT FINISH, COLOR: RAL5017 WELDED TO SPACER & SQ. TUBE
7. ½"X3" ALUMINUM BAR SPACER POWDER COAT FINISH, COLOR: RAL5017 WELDED TO BAR & SQ. TUBE
8. 1½"X1½" OPENING ⅛" DIA. ALUMINUM WELDED WIREMESH POWDER COAT FINISH, COLOR: RAL5017 WELDED TO BAR
9. 3"X3" OPENING ⅛" DIA. ALUMINUM WELDED WIRE MESH POWDER COAT FINISH, COLOR: RAL5017 WELDED TO BAR
10. PRECAST OR POUR-IN PLACE PCC CAP
    - PCC INTEGRAL COLOR: HARVEST GOLD (5084) BY DAVIS COLORS
    - PCC FINISH: MEDIUM SAND
11. PRECAST OR POUR-IN-PLACE LOW PCC PEDESTAL
12. PRECAST OR POUR-IN-PLACE HIGH PCC PEDESTAL
13. 2" THICK OR $\frac{1}{8}$" HOLLOW CORE X 18" DIA. ALUMINUM-ALLOY CITY LOGO
    - FULL COLOR GIGLEE CITY LOGO (FRONT SIDE)
    - BRUSHED ALUMINUM FINISH (SIDE)
    - ⅛" WIDE RAISED BORDER, OUTER RING (FRONT SIDE)
    - (3) $\frac{3}{8}$"X1½" WELDED ALUMINUM STUDS FOR ANCHORING
    - EMBEDDED 1" INTO PRECAST PCC PEDESTAL
14. 8"X6"X$\frac{3}{8}$" ALUMINUM PLATE (TOP & BOTTOM)
15. ½"ø STAINLESS STEEL BOLT ASSEMBLY (4 PER CONNECTION), LENGTH AS REQUIRED
16. #4 HORIZONTAL REBAR, EQUAL SPACING (QUANTITY INDICATED ON DETAIL)
17. #4 VERTICAL REBAR TIE, EQUAL SPACING (QUANTITY INDICATED ON DETAIL)
18. 12" X ¾"ø DAYTON SUPERIOR B-2 FOUR-STRUT COIL TIE INSERT (QTY. INDICATED ON DETAIL)
19. 23" LONG X ¾"ø DAYTON SUPERIOR B-12 COIL ROD WITH NUT AT BOTTOM END FOOTING (QTY. INDICATED ON DETAIL). 12" THREADED INTO COIL TIE AND 11" MIN. INSERTED INTO FOOTING
20. 12" X 2"ø MIN. HOLE FILLED WITH SIMPSON EPOXY SET TO RECEIVE COIL ROD. INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.
21. 8" LONG #3 REBAR DOWEL. IMBED 2" INTO CAP
22. FINISH SURFACE

FINISH TEXTURE SCHEDULE

A. ELDORADO STONE SIMULATED LEDGESTONE FACING (VENEER).
COLOR: NATUCKET STACKED STONE
CONTRACTOR SHALL SUBMIT (3) SAMPLES TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
MORTAR COLOR SHALL MATCH GENERAL STONE COLOR.
LEDGESTONE SAMPLES AVAILABLE THROUGH ELDORADO STONE (800) 925-1491 OR APPROVED EQUAL.
https://www.eldoradostone.com/contact/

B. TEXCOTE 600 EXTERIOR COATING SYSTEM
COLOR: PANTONE 4705C
TEXTURE: SAND
TEXCOTE (323)233-3111
Email: info@texcote.com

*PANTONE COLOR MATCHING SYSTEM (PMS) BY PANTONE, INC. IS A PROPRIETY STANDARDIZED COLOR SYSTEM USE FOR IDENTIFYING COLORS AMONG VARIOUS INDUSTRIES WORLDWIDE.

ABBREVIATION/KEY
℄ CENTER LINE
CF MEDIAN CURB FACE
EQ. EQUAL
SP. SPACING
VER. VERIFY
(X) QUANTITY

NOTES

1. ALL ALUMINUM TUBING SHALL BE STRUCTURAL 6061 ALLOY SCHEDULE 40. ALL ATTACHMENT COMPONENTS SHALL BE COMPATIBLE ALUMINUM 6061 ALLOY.
2. LEDGERSTONE VENEER SHALL BE INSTALLED USING A PRE-BLENDED, POLYMER FORTIFIED TYPE S MORTAR AND WATER.
3. PRECAST CAP SHALL BE INSTALLED USING A PRE-BLENDED, POLYMER FORTIFIED TYPE S MORTAR AND WATER.

GENERAL NOTES:

1. VERIFY EXACT LOCATION OF SIGN FOOTING AND SIGN FACING DIRECTION WITH ENGINEER PRIOR TO INSTALLATION.
2. STONE VEENER SHALL BE ELDORADO STONE OR NATURAL LEDGESTONE FACING PER FINISH TEXTURE SCHEDULE.
3. DETAILS SHOWN ARE TO ILLUSTRATE THE INTENDED DESIGN ONLY. THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS AND SUBMITTALS AS STATED TO ENGINEER FOR SELECTION AND APPROVAL PRIOR TO ORDERING.
4. PRECAST PCC PEDESTAL, PCC CAP, PUNCHED LETTERING, LETTER CUT-OUT, ALUMINUM LETTER STOCK, ALUMINUM PANEL, CITY LOGO, METAL STRUCTURES FABRICATION/ASSEMBLY AND COMPLETE SIGN INSTALLATION AVAILABLE THROUGH
   BRAVO SIGN & DESIGN
   CONTACT FRANK FIORE
   (714) 284-0500X201 frank@bravosign.com
5. ALUMINUM LETTER STOCKS AND CITY LOGO SHALL BE INSTALLED BY SIGN FABRICATOR PRIOR TO DELIVERING TO PROJECT SITE.

SIGN INSTALLATION NOTES - CONTRACTOR'S RESPONSIBILITIES:

1. CONTRACTOR SHALL FURNISH SHOP DRAWINGS OF A COMPLETE SIGN ASSEMBLY AS SHOWN. SUBMIT DRAWINGS AND CALCULATIONS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CITY PERMIT APPLICATION, PLAN CHECK SUBMITTAL TO BUILDING DEPT., OBTAIN PLAN APPROVAL, OBTAIN PERMIT, AND SCHEDULE FOR INSPECTION FROM BUILDING DEPT. THE CITY WILL PAID FOR PERMIT FEE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING HIGH RESOLUTION DIGITAL ARTWORK AND APPURTENANCES OF CITY LOGO TO SUBMIT TO SIGN FABRICATOR AS REQUESTED. COORDINATE WITH ENGINEER FOR ADDITIONAL INFORMATION PRIOR TO ORDERING.
4. CONTRACTOR SHALL SUBMIT LEDGESTONE SAMPLES, PAINT COLOR CHIPS, PRECAST CONCRETE CAP AND LETTER STOCK SAMPLES TO ENGINEER FOR SELECTION AND APPROVAL PRIOR TO SUBMITTAL TO THE SIGN FABRICATOR FOR SIGN FABRICATION.
5. CONTRACTOR SHALL ASSEMBLE AND INSTALL COMPLETE SIGN AT THE LOCATION SHOWN ON PLAN AND SHALL INCLUDE THE FOLLOWING:
   - CONSTRUCT CONCRETE FOOTING AND BASE, COMPLETE PER DETAIL AND/OR ENGINEER'S RECOMMENDATIONS.
   - UNLOAD AND ANCHOR PRECAST PCC PEDESTALS ONTO FOOTING.
   - APPLY CLEAR ANTI-GRAFFITI COATING ON ALL EXPOSED SURFACES OF CAP AND PEDESTALS. ANTI-GRAFFITI COATING SHALL BE PER SPECIFICATIONS. COATING APPLICATION SHALL BE PER MANUFACTURER'S SPECIFICATIONS/WRITTEN INSTRUCTIONS.
   - INSTALLATION OF PRECAST CONCRETE LEDGESTONE VENEER AND CAP.

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER WILLIAM F. YOUNG No. C 35715 Exp. 09/30/23 CIVIL STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

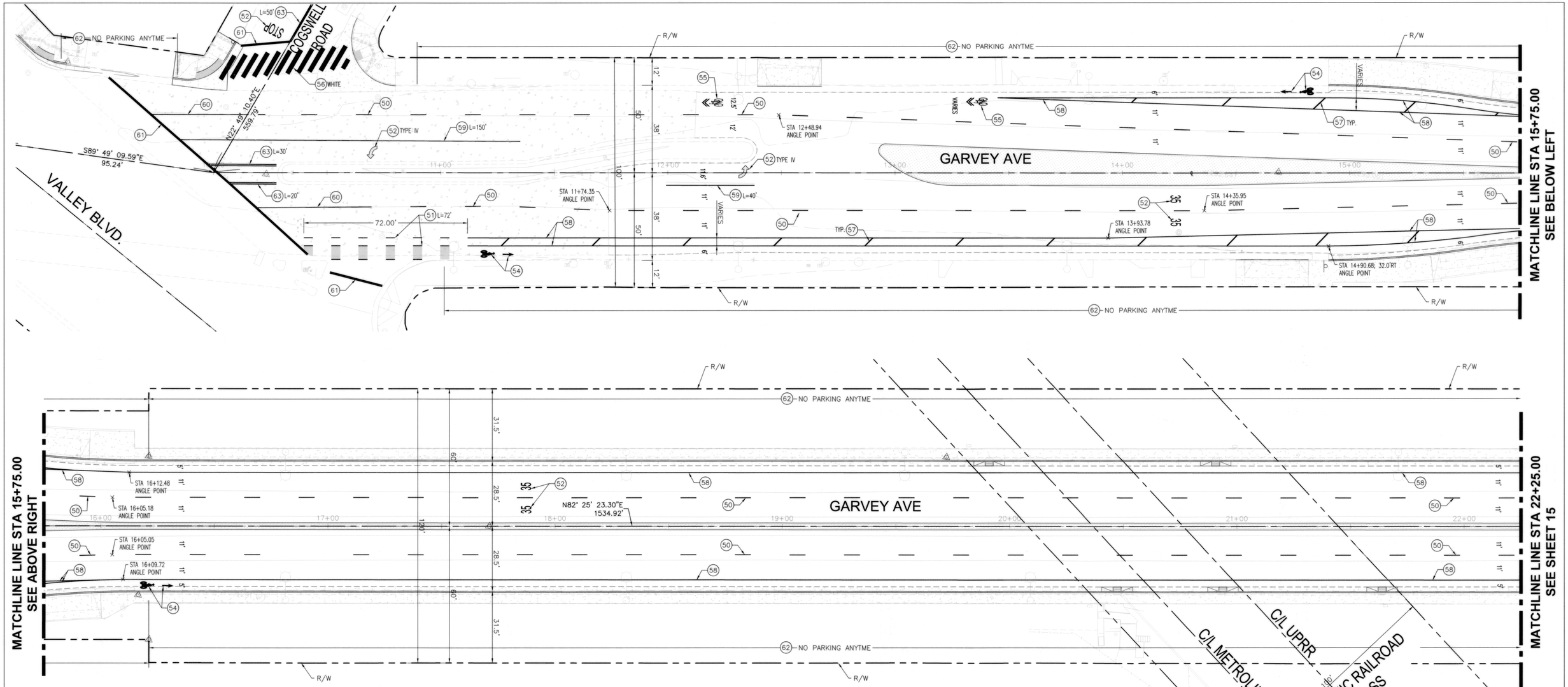
APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23 DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
GARVEY AVE.
MONUMENT SIGN DETAILS
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-13
SHEET 13 OF 53	

Drawing Name: C:\CAD\Garvey Ave\Drawings\C13 - C13 - Monument Detail.dwg
Plot Date: Feb 06, 2023 - 3:19pm



STRIPING CONSTRUCTION NOTES:

(50) INSTALL 6" WHITE THERMOPLASTIC STRIPING AND TYPE G PAVEMENT MARKERS PER DETAIL 9, CALTRANS STD. PLAN A20A

(51) INSTALL BIKE LANE INTERSECTION EXTENSION PER DETAIL 39A, SHEET 14, LENGTH PER PLAN

(52) INSTALL WHITE THERMOPLASTIC PAVEMENT MARKING PER CALTRANS STD. PLANS A24A, A24C, AND A24D, TYPE PER PLAN

(53) INSTALL WHITE THERMOPLASTIC PARKING STALL STRIPING PER DETAIL "B", SHEET 14, NUMBER OF STALLS PER PLAN

(54) INSTALL BIKE LANE SYMBOL WITH PERSON AND BIKE LANE ARROW PER CALTRANS STD. PLANS A24A AND A24C. USE WHITE PRE-FORMED THERMOPLASTIC.

(55) INSTALL SHARED ROADWAY BICYCLE MARKING PER CALTRANS STD. PLAN A24C. USE WHITE PRE-FORMED THERMOPLASTIC

(56) INSTALL CROSSWALK PER CITY OF EL MONTE STD. ST-100-2 USING THERMOPLASTIC STRIPING, COLOR PER PLAN

(57) INSTALL 8" WHITE THERMOPLASTIC DIAGONAL STRIPING

(58) INSTALL 6" WHITE THERMOPLASTIC STRIPING PER DETAIL 39, CALTRANS STD. PLAN A20D

(59) INSTALL 8" WHITE THERMOPLASTIC STRIPING AND TYPE G PAVEMENT MARKERS PER DETAIL 38, CALTRANS STD. PLAN A20D, LENGTH PER PLAN

(60) INSTALL 6" WHITE THERMOPLASTIC STRIPING AND TYPE G PAVEMENT MARKERS PER DETAIL "A", SHEET 14

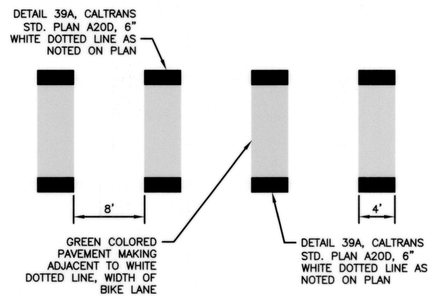
(61) INSTALL 12" WHITE THERMOPLASTIC LIMIT LINE

(62) INSTALL RED CURB PAINT ON TOP AND FACE OF CURB IN "NO PARKING ANYTIME" AREA

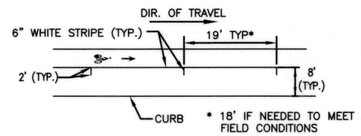
(63) INSTALL 6" DOUBLE YELLOW THERMOPLASTIC STRIPING, LENGTH PER PLAN

GENERAL NOTES:

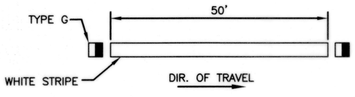
1. ALL MATERIAL AND WORK SHALL CONFORM TO THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CALIFORNIA MUTCD) LATEST EDITION, STANDARD PLANS AND STANDARD SPECIFICATIONS OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, FHWA STANDARD HIGHWAY SIGNS, CALIFORNIA SIGN SPECIFICATION, AND THE SPECIAL PROVISIONS.
2. ALL STRIPING AND PAVEMENT LEGENDS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
3. ALL CONFLICTING LINES, LEGENDS AND RAISED PAVEMENT MARKERS SHALL BE REMOVED BY WET SANDBLASTING.
4. NEW SIGN POSTS SHALL BE "UNISTRUT" SQUARE GALVANIZED STEEL POSTS WITH BREAKAWAY ANCHOR POST, OR APPROVED EQUAL.
5. ALL NEW SIGNS ARE TO BE REFLECTORIZED USING 3-M TYPE IV GRADE SHEETING OR APPROVED EQUAL.
6. ALL SIGNS ARE TO BE PER THE STATE OF CALIFORNIA SIGN SPECIFICATIONS, EXCEPT THAT ALL SIGNS SHALL BE MINIMUM 0.1 INCH THICK ALUMINUM.
7. PAVING DAMAGED DUE TO REMOVING RAISED PAVEMENT MARKERS SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER.
8. WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL INSTALL A BLUE RAISED RETROREFLECTIVE PAVEMENT MARKER ON THE FINISHED SURFACE AT EACH FIRE HYDRANT LOCATION PER FIGURE 3B-102 OF THE CALIFORNIA MUTCD.



(51) DETAIL 39A
NO SCALE



PARKING STALL DETAIL "B"
NO SCALE



DETAIL "A"
NO SCALE

20' 10' 0 20'
SCALE: 1"= 20'

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG
02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

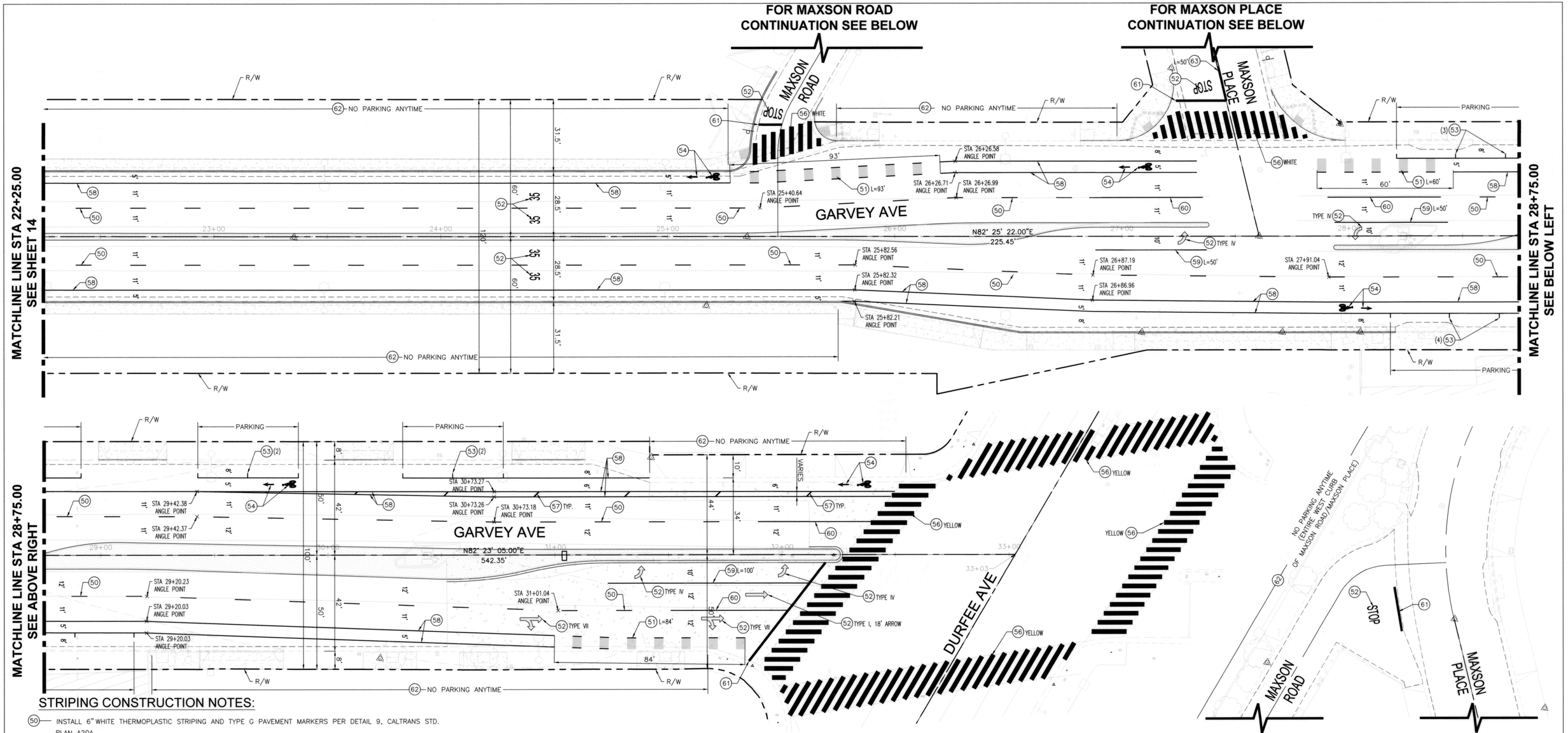
APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23
DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
GARVEY AVE. - STRIPING PLAN
STA 10+00.00 TO STA 22+25.00
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-14
SHEET 14 OF 53	

DRAWING NAME: J:\ENGR\GIS\Projects\Garvey\GD_Striping\14-C14 - GTS - Striping Plan.dwg
PLOT DATE: Apr 20, 2023 - 10:58am PLOTTED BY: mnguyen



STRIPING CONSTRUCTION NOTES:

(50) INSTALL 6" WHITE THERMOPLASTIC STRIPING AND TYPE G PAVEMENT MARKERS PER DETAIL 9, CALTRANS STD. PLAN A20A

(51) INSTALL BIKE LANE INTERSECTION EXTENSION PER DETAIL 39A, SHEET 14, LENGTH PER PLAN

(52) INSTALL WHITE THERMOPLASTIC PAVEMENT MARKING PER CALTRANS STD. PLANS A24A, A24C, AND A24D, TYPE PER PLAN

(53) INSTALL WHITE THERMOPLASTIC PARKING STALL STRIPING PER DETAIL "B", SHEET 14, NUMBER OF STALLS PER PLAN

(54) INSTALL BIKE LANE SYMBOL WITH PERSON AND BIKE LANE ARROW PER CALTRANS STD. PLANS A24A AND A24C. USE WHITE PRE-FORMED THERMOPLASTIC.

(55) INSTALL SHARED ROADWAY BICYCLE MARKING PER CALTRANS STD. PLAN A24C. USE WHITE PRE-FORMED THERMOPLASTIC

(56) INSTALL CROSSWALK PER CITY OF EL MONTE STD. ST-100-2 USING THERMOPLASTIC STRIPING, COLOR PER PLAN

(57) INSTALL 8" WHITE THERMOPLASTIC DIAGONAL STRIPING

(58) INSTALL 6" WHITE THERMOPLASTIC STRIPING PER DETAIL 39, CALTRANS STD. PLAN A20D

(59) INSTALL 8" WHITE THERMOPLASTIC STRIPING AND TYPE G PAVEMENT MARKERS PER DETAIL 38, CALTRANS STD. PLAN A20D, LENGTH PER PLAN

(60) INSTALL 6" WHITE THERMOPLASTIC STRIPING AND TYPE G PAVEMENT MARKERS PER DETAIL "A", SHEET 14

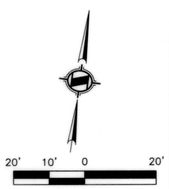
(61) INSTALL 12" WHITE THERMOPLASTIC LIMIT LINE

(62) INSTALL RED CURB PAINT ON TOP AND FACE OF CURB IN "NO PARKING ANYTIME" AREA

(63) INSTALL 6" DOUBLE YELLOW THERMOPLASTIC STRIPING, LENGTH PER PLAN

GENERAL NOTES:

1. ALL MATERIAL AND WORK SHALL CONFORM TO THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CALIFORNIA MUTCD) LATEST EDITION, STANDARD PLANS AND STANDARD SPECIFICATIONS OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, FHWA STANDARD HIGHWAY SIGNS, CALIFORNIA SIGN SPECIFICATION, AND THE SPECIAL PROVISIONS.
2. ALL STRIPING AND PAVEMENT LEGENDS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
3. ALL CONFLICTING LINES, LEGENDS AND RAISED PAVEMENT MARKERS SHALL BE REMOVED BY WET SANDBLASTING.
4. NEW SIGN POSTS SHALL BE "UNISTRUT" SQUARE GALVANIZED STEEL POSTS WITH BREAKAWAY ANCHOR POST, OR APPROVED EQUAL.
5. ALL NEW SIGNS ARE TO BE REFLECTORIZED USING 3-M TYPE IV GRADE SHEETING OR APPROVED EQUAL.
6. ALL SIGNS ARE TO BE PER THE STATE OF CALIFORNIA SIGN SPECIFICATIONS, EXCEPT THAT ALL SIGNS SHALL BE MINIMUM 0.1 INCH THICK ALUMINUM.
7. PAVING DAMAGED DUE TO REMOVING RAISED PAVEMENT MARKERS SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER.
8. WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL INSTALL A BLUE RAISED RETROREFLECTIVE PAVEMENT MARKER ON THE FINISHED SURFACE AT EACH FIRE HYDRANT LOCATION PER FIGURE 3B-102 OF THE CALIFORNIA MUTCD.



SCALE: 1"= 20'

811 Know what's below. Call before you dig.

REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

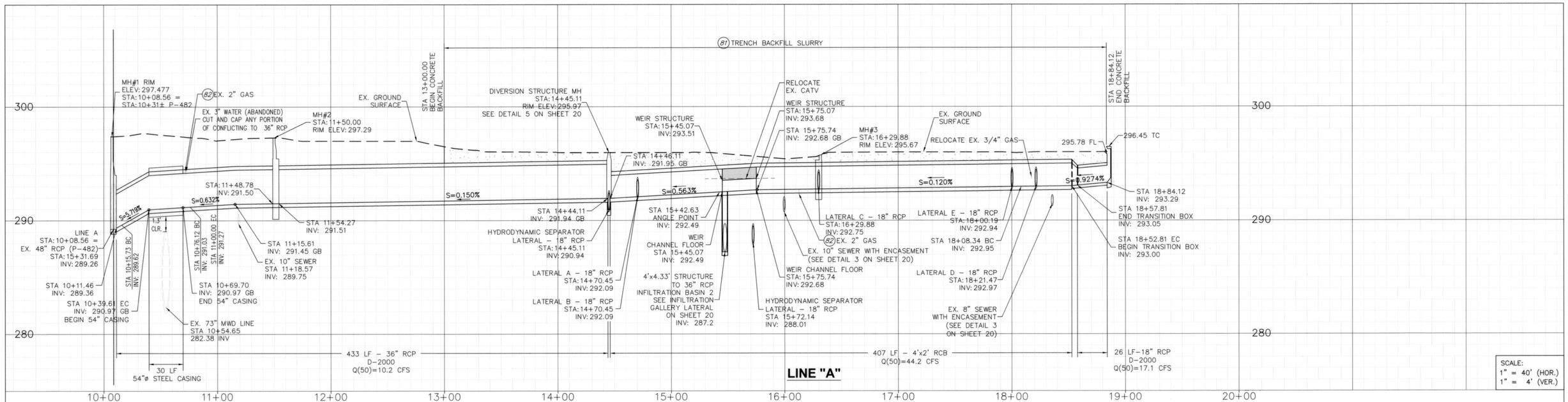
CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23 DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
GARVEY AVE. - STRIPING PLAN
STA 22+25.00 TO DURFEE AVE.
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-15
SHEET 15 OF 53	



STORM DRAIN CONSTRUCTION NOTES:

1. PROTECT IN PLACE
70. INSTALL 18" RCP (D-LOAD PER PLAN)
71. INSTALL 36" RCP (D-LOAD PER PLAN)
72. INSTALL 4'W x 2'H RCB, BEDDING, AND BACKFILL
73. CONSTRUCT WEIR STRUCTURE PER DETAIL 2 ON SHEET 21
74. CONSTRUCT LOCAL DEPRESSION PER SPPWC STD. PLAN NO. 313-4, CASE PER PLAN
75. CONSTRUCT CURB OPENING CATCH BASIN PER SPPWC STD. PLAN NO. 300-4 (W, V, AND H PER PLAN) WITH MONOLITHIC CONNECTION PER SPPWC STD. PLAN NO. 308-4
76. CONSTRUCT MANHOLE PER SPPWC STD. PLAN NO. 322-3 (A=45', B=36", C=7.12', D1=48", D2=48", ELEV R=289.11, ELEV S=289.41)
77. CONSTRUCT MANHOLE PIPE TO PIPE STRUCTURE PER SPPWC STD. PLAN NO. 320-2
78. CONSTRUCT MODIFIED MANHOLE WITH DIVERSION STRUCTURE PER DETAIL 5 ON SHEET 21
79. CONSTRUCT MANHOLE - CONCRETE BOX STORM DRAIN PER SPPWC STD. PLAN NO. 323-2
80. CONSTRUCT TRANSITION STRUCTURE 18" RCP TO 4'W x 2'H RCB PER SPPWC STD. PLAN NO. 342-2
81. BACKFILL WITH TRENCH BACKFILL SLURRY
82. EXISTING UTILITY TO BE RELOCATED BY OTHERS; CONTRACTOR RESPONSIBLE TO NOTIFY OTHER AGENCIES
83. INSTALL 54" DIA. 1/2" WALL STEEL CASING
84. CONSTRUCT CONCRETE ENCASEMENT FOR EXISTING SEWER PIPE AT CROSSING PER DETAIL 3 ON SHEET 21

LINE TABLE		
LINE #	LENGTH (FT)	BEARING
L1	31.31	N35°13'19"E
L2	265.72	N21°23'50"W
L3	442.62	S82°23'05"W
L4	36.51	N67°12'08"W
L5	7.17	N36°47'21"W

CURVE TABLE				
CURVE #	LENGTH (FT)	RADIUS	DELTA	TANGENT
C1	44.47	45.00	56.62	24.24
C2	23.89	45.00	30.41	12.23
C3	23.88	45.00	30.41	12.23

40' 20' 0 40'

SCALE: 1"= 40'

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER WILLIAM F. YOUNG No. C 35715 Exp. 09/30/23 CIVIL STATE OF CALIFORNIA

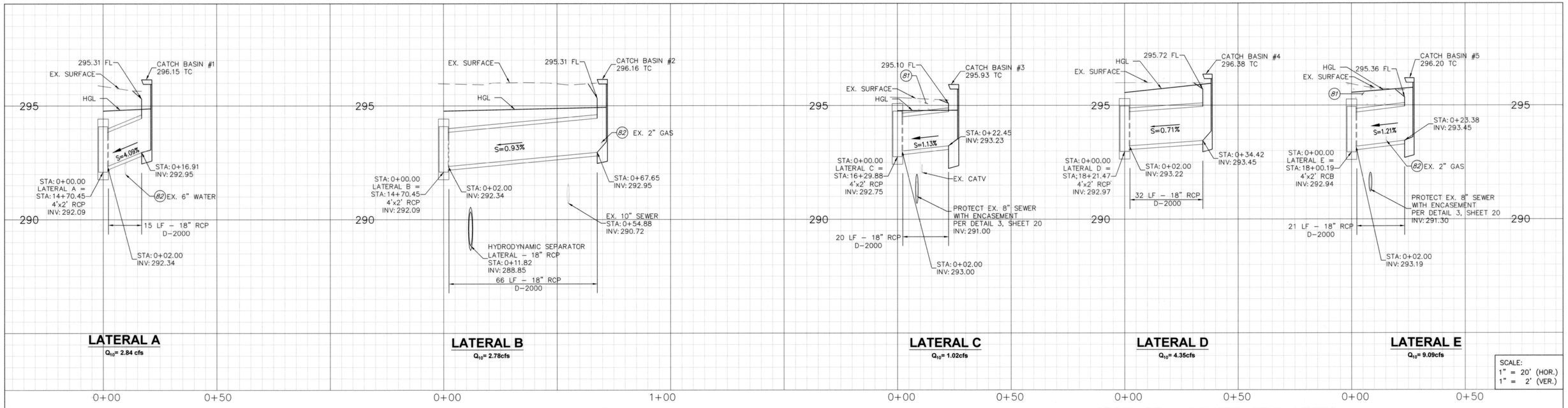
CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY PROJECT MANAGER
4-20-23 DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
STORM DRAIN PLAN AND PROFILE
2'H x 4'W RCB AND 36" RCP
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

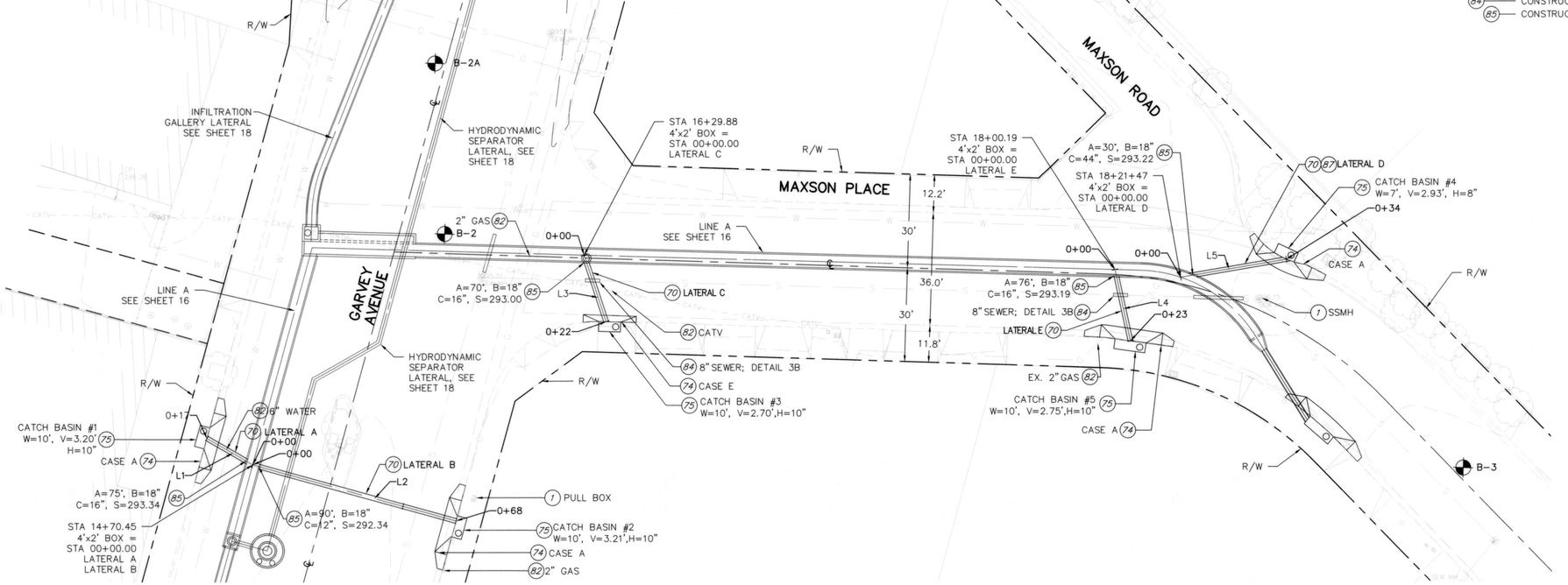
DATE 02/13/2023	DESIGNED BY: SB
	DRAWN BY: MN
SCALE AS SHOWN	CHECKED BY: WY
PLAN NUMBER	C-16
SHEET 16	OF 53



SCALE:
1" = 20' (HOR.)
1" = 2' (VER.)

STORM DRAIN CONSTRUCTION NOTES:

(1) PROTECT IN PLACE
(70) INSTALL 18" RCP, BEDDING, AND BACKFILL (D-LOAD PER PLAN)
(74) CONSTRUCT LOCAL DEPRESSION PER SPPWC STD. PLAN NO. 313-4, CASE PER PLAN
(75) CONSTRUCT CURB OPENING CATCH BASIN PER SPPWC STD. PLAN NO. 300-4 (W, V, AND H PER PLAN) WITH MONOLITHIC CONNECTION PER SPPWC STD. PLAN NO. 308-3
(81) BACKFILL WITH TRENCH BACKFILL SLURRY
(82) EXISTING UTILITY TO BE RELOCATED BY OTHERS; CONTRACTOR RESPONSIBLE TO NOTIFY OTHER AGENCIES
(84) CONSTRUCT CONCRETE CASING FOR EXISTING SEWER PIPE AT CROSSING PER DETAIL 3 ON SHEET 21
(85) CONSTRUCT JUNCTION STRUCTURE PER SPPWC STD. PLAN NO. 333-2



LINE DATA		
LINE #	LENGTH (FT)	DIRECTION
L1	16.91	S6° 55' 57.37"W
L2	67.65	N7° 36' 55.00"W
L3	22.45	N48° 48' 50.00"E
L4	23.38	N54° 49' 42.87"E
L5	34.41	N32° 40' 37.79"W

20' 10' 0 20'

SCALE: 1"= 20'

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

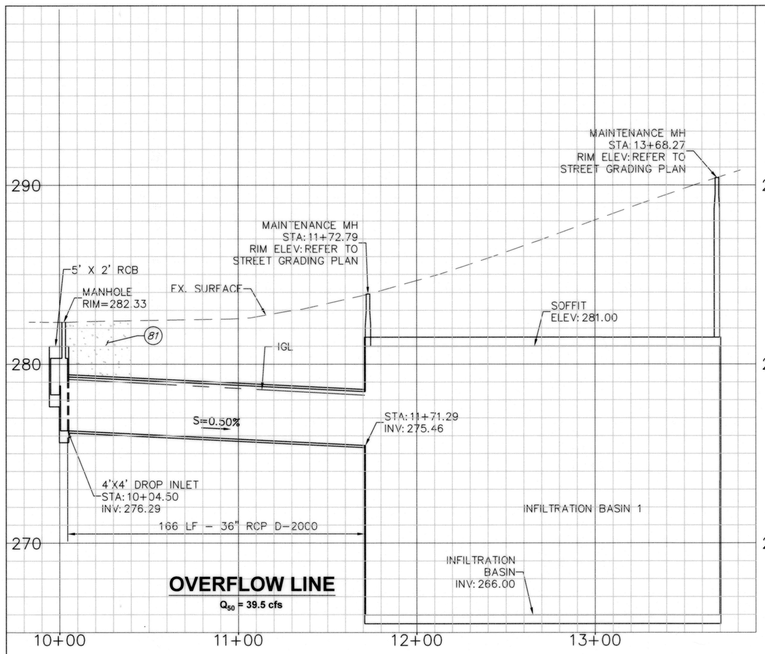
APPROVED BY:
REVIEWED AND RECOMMENDED BY PROJECT MANAGER
DATE 4-20-23

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
STORM DRAIN PLAN AND PROFILE
LATERAL A, B, C, D, AND E
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

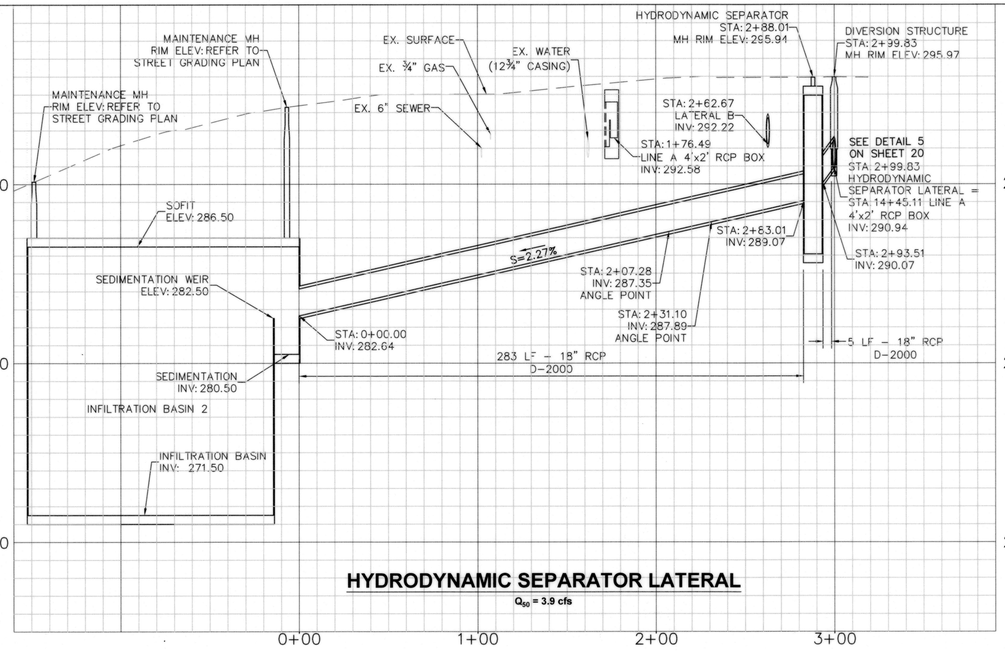
DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-17
SHEET 17 OF 53	

DRAWING NAME: J:\2141\02\8 Design\21410208.dgn
LAST SAVED: 2/13/2023 1:29pm



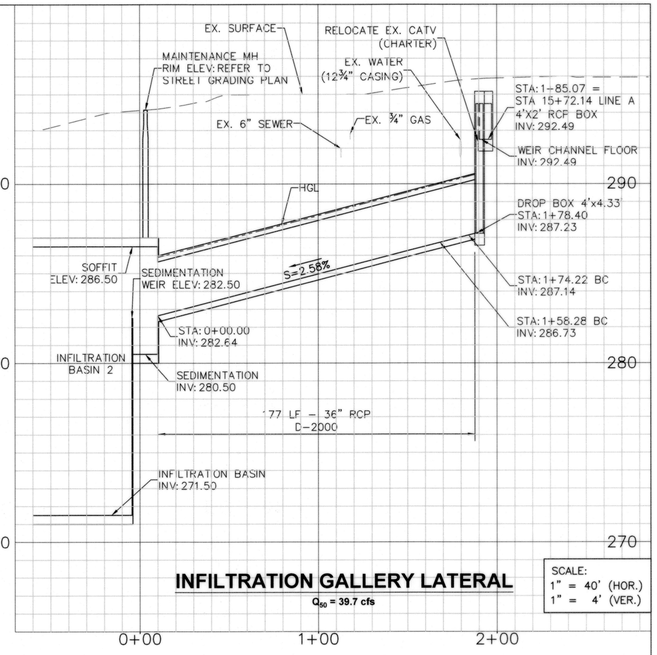
OVERFLOW LINE

Q_{50} = 39.5 cfs



HYDRODYNAMIC SEPARATOR LATERAL

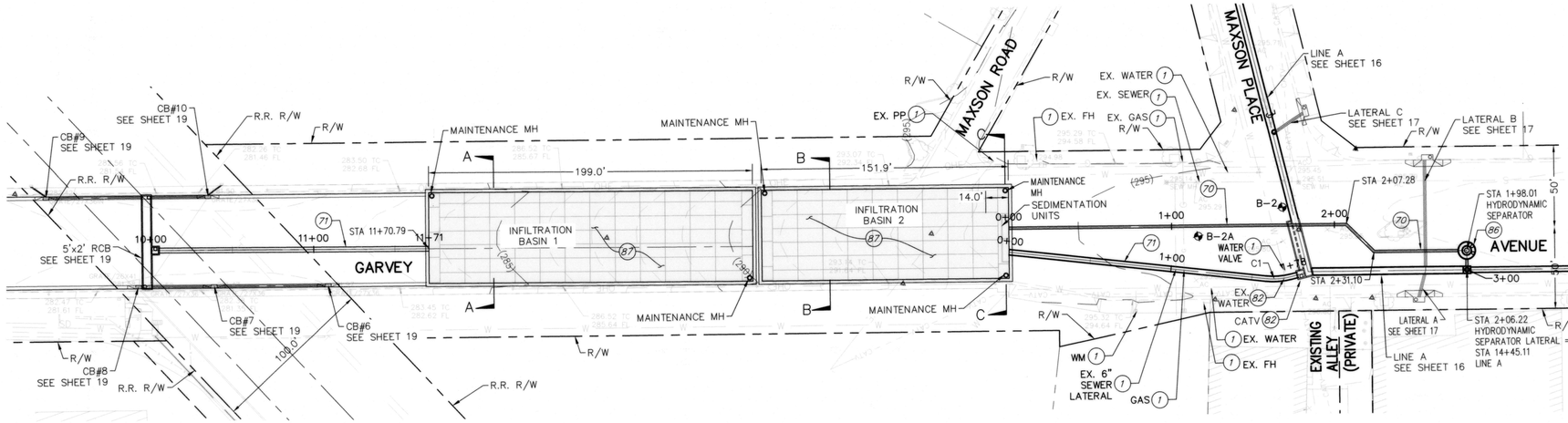
Q_{50} = 3.9 cfs



INFILTRATION GALLERY LATERAL

Q_{50} = 39.7 cfs

SCALE:
1" = 40' (HOR.)
1" = 4' (VER.)

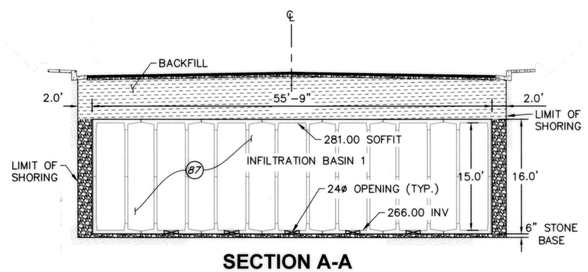


STORM DRAIN CONSTRUCTION NOTES:

1. PROTECT IN PLACE
70. INSTALL 18" RCP (D-LOAD PER PLAN)
71. INSTALL 36" RCP (D-LOAD PER PLAN)
81. BACKFILL WITH TRENCH BACKFILL SLURRY
82. EXISTING UTILITY TO BE RELOCATED BY OTHERS; CONTRACTOR RESPONSIBLE TO NOTIFY OTHER AGENCIES
86. INSTALL HYDRODYNAMIC SEPARATOR UNIT PER DETAIL 4 ON SHEET 21
87. FURNISH AND INSTALL STORMTRAP PRECAST INFILTRATION BASIN (OR APPROVED EQUAL) PER SHEETS 24-26

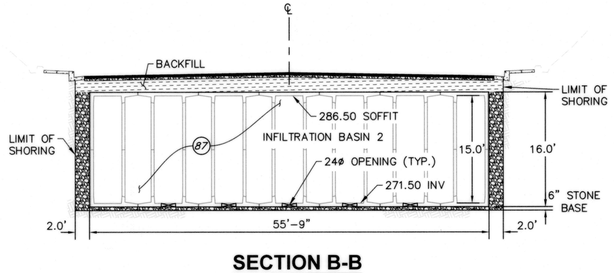
CURVE TABLE				
CURVE #	LENGTH (FT)	RADIUS	DELTA	TANGENT
C1	15.93	45.00	20.29	8.05

LINE TABLE		
LINE #	LENGTH (FT)	BEARING
L2	207.28	N82°23'15"E
L3	23.83	S52°36'55"E
L4	51.91	N82°23'05"E
L5	158.28	N88°53'27"E
L6	3.51	N68°36'10"E



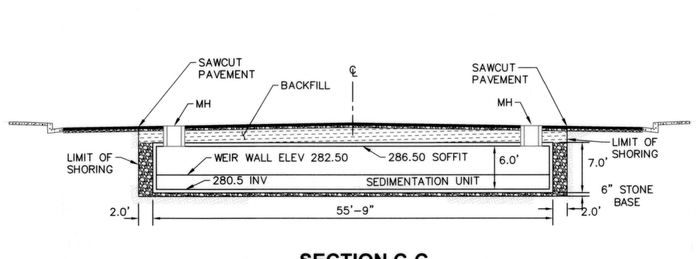
SECTION A-A

SCALE: 1"=10'



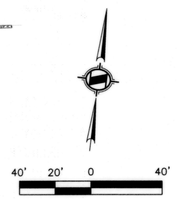
SECTION B-B

SCALE: 1"=10'



SECTION C-C

SCALE: 1"=10'



SCALE: 1"= 40'

811 Know what's below. Call before you dig.

REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com
UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG
02/13/2023
REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

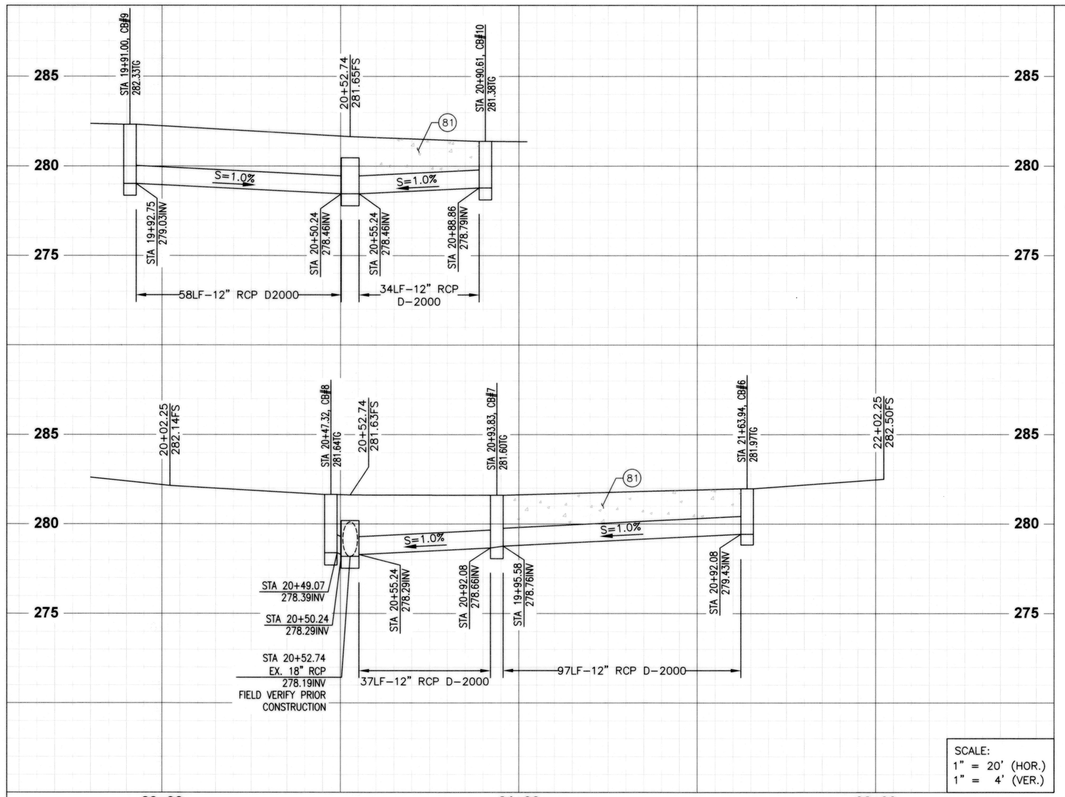
CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

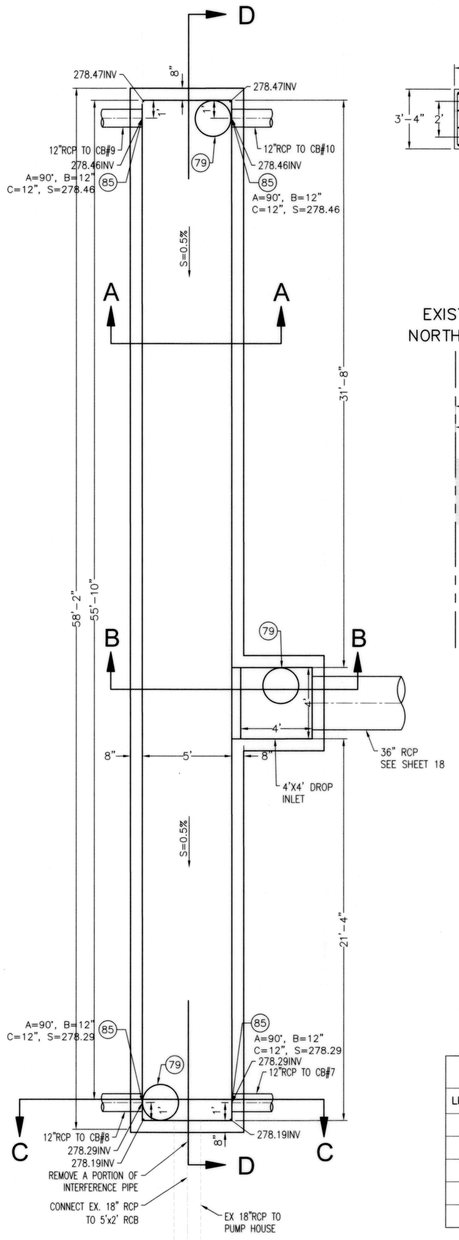
APPROVED BY:
REVIEWED AND RECOMMENDED BY
~~PROJECT MANAGER~~
4-20-23
DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
OVERFLOW LINE, HYDRODYNAMIC SEPARATOR LATERAL AND INFILTRATION GALLERY LATERAL PLAN AND PROFILE
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

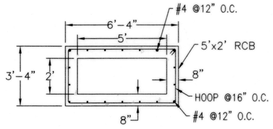
CITY OF EL MONTE PROJECT	
CIP No. 884	
DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-18
SHEET 18 OF 53	

DRAWING NAME: J:\21-21\C\Dwg\Plan\Sheet 18 C-18.dwg
PLOT DATE: Mar 06, 2023 - 7:56am PLOTTED BY: mnguyen

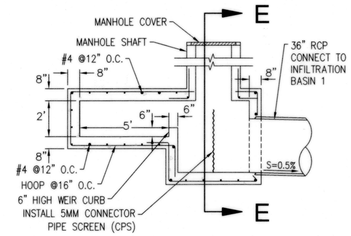




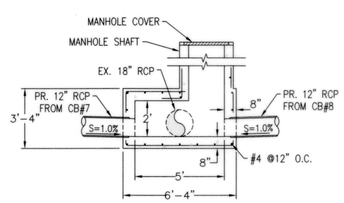
5'x2' RCB
1"=4'



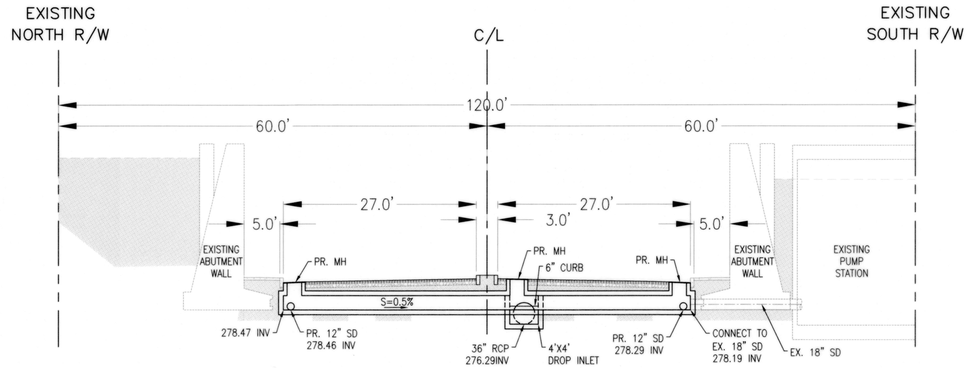
SECTION A-A
1"=4'



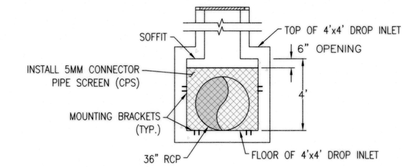
SECTION B-B
1"=4'



SECTION C-C
1"=4'



SECTION D-D
1"=10'

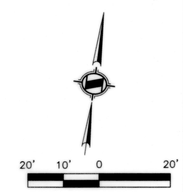


SECTION E-E
1"=4'

LINE TABLE		
LINE #	LENGTH (FT)	BEARING
L1	66.61	S82°25'24"W
L2	36.84	S82°23'11"W
L3	1.19	N82°23'11"E
L4	57.45	N82°23'12"E
L5	33.66	S82°23'03"W

STORM DRAIN CONSTRUCTION NOTES:

(79) CONSTRUCT MANHOLE – CONCRETE BOX STORM DRAIN PER SPPWC STD. PLAN NO. 323-2
(81) BACKFILL WITH TRENCH BACKFILL SLURRY
(85) CONSTRUCT JUNCTION STRUCTURE PER SPPWC STD. PLAN NO. 333-2
(88) CONSTRUCT CURBSIDE GRATING CATCH BASIN PER SPPWC STD. PLAN NON 303-4, 1 GRATE (BICYCLE SAFE)
(89) INSTALL 5'W x 2'H RCB PER DETAIL HEREON
(90) INSTALL 12" RCP (D-LOAD PER PLAN)
(91) RECONNECT THE EXISTING 8" PIPE TO NEW CATCH BASIN, INVERT PER PLAN



SCALE: 1"= 20'

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

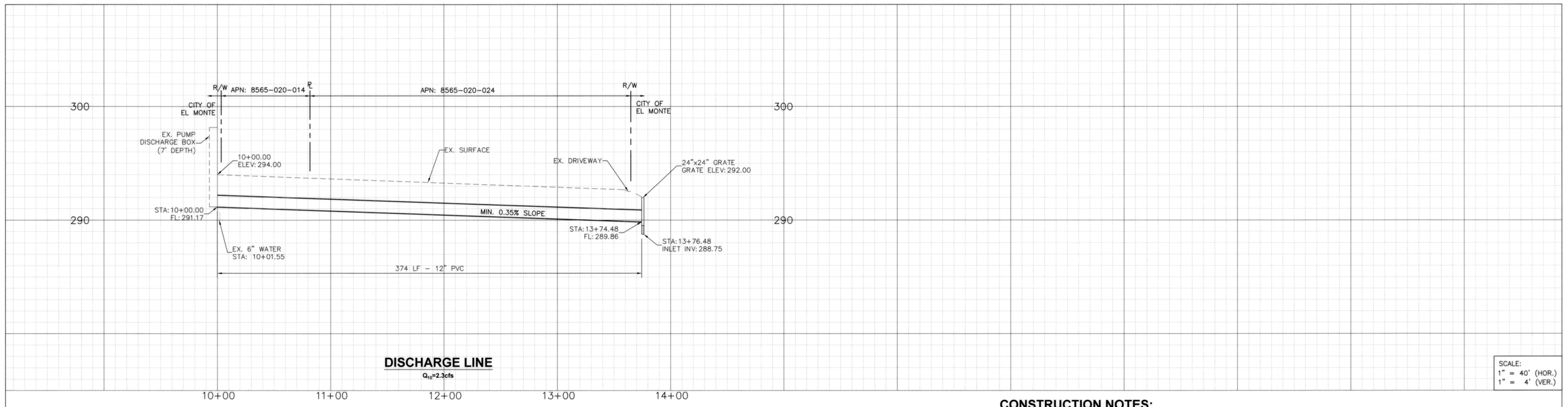
APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23 DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
FOREBAY PLAN AND DETAILS
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-19
SHEET 19 OF 53	

PLOTTED: Feb 13, 2023 - 1:21pm
DRAWING NAME: Z:\CAD\El Monte\Garvey Ave Drainage\Plan Sheets\C19 - 3D Plan and Details.dwg



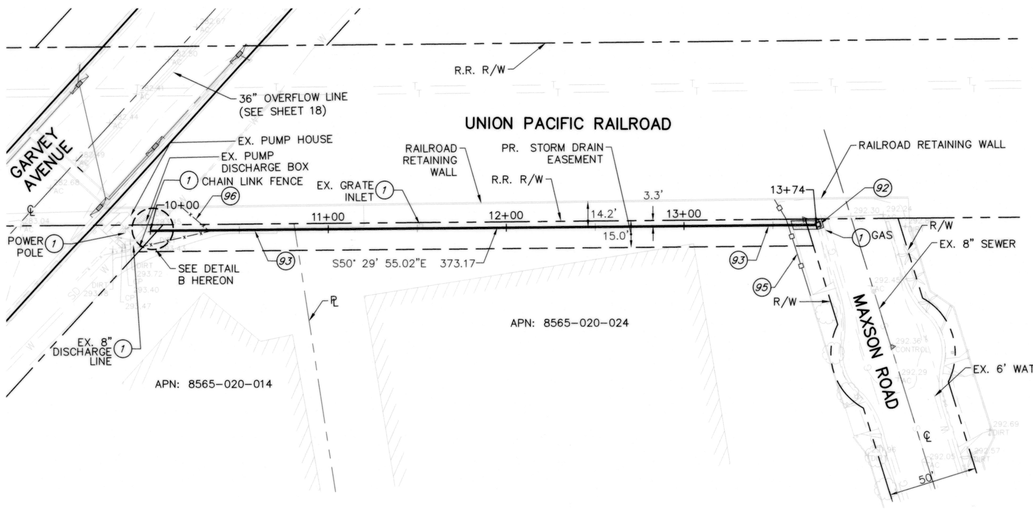
DISCHARGE LINE

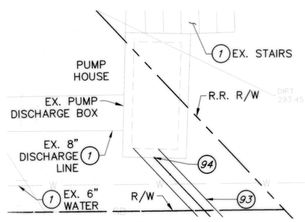
Q_{10}=2.3cfs

SCALE:
1" = 40' (HOR.)
1" = 4' (VER.)

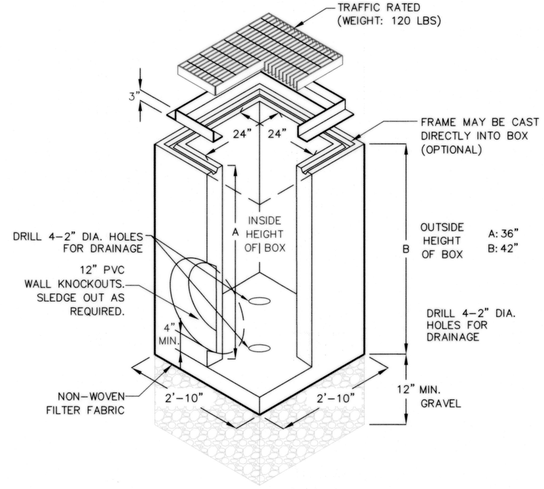
CONSTRUCTION NOTES:

(1) PROTECT IN PLACE
(92) INSTALL 24" LONG x 24" WIDE BOTTOMLESS DROP INLET WITH TRAFFIC RATED GRATE (H-20 LOADING) PER DETAIL A HEREON
(93) INSTALL 12" SCH 40 PVC, BEDDING, AND BACKFILL
(94) CORE CUT HOLE OF DISCHARGE BOX AND CONNECT THE 12" PVC
(95) REMOVE AND REPLACE WROUGHT IRON GATE
(96) REMOVE AND REPLACE CHAIN LINK FENCE





DETAIL B
SCALE: 1"=4'



DETAIL A: 24"x24" BOTTOMLESS DROP INLET
N.T.S.

40' 20' 0 40'
SCALE: 1"= 40'

ADDITIVE WORK

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com
UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG
02/13/2023
REGISTERED PROFESSIONAL ENGINEER WILLIAM F. YOUNG No. C 35715 Exp. 09/30/23 CIVIL STATE OF CALIFORNIA

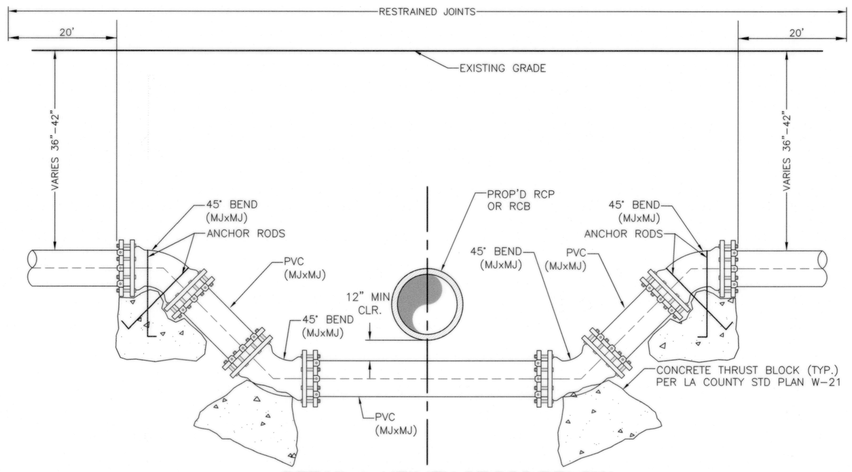
CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY PROJECT MANAGER
4-20-23
DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
12" DISCHARGE LINE
(ADDITIVE WORK)
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

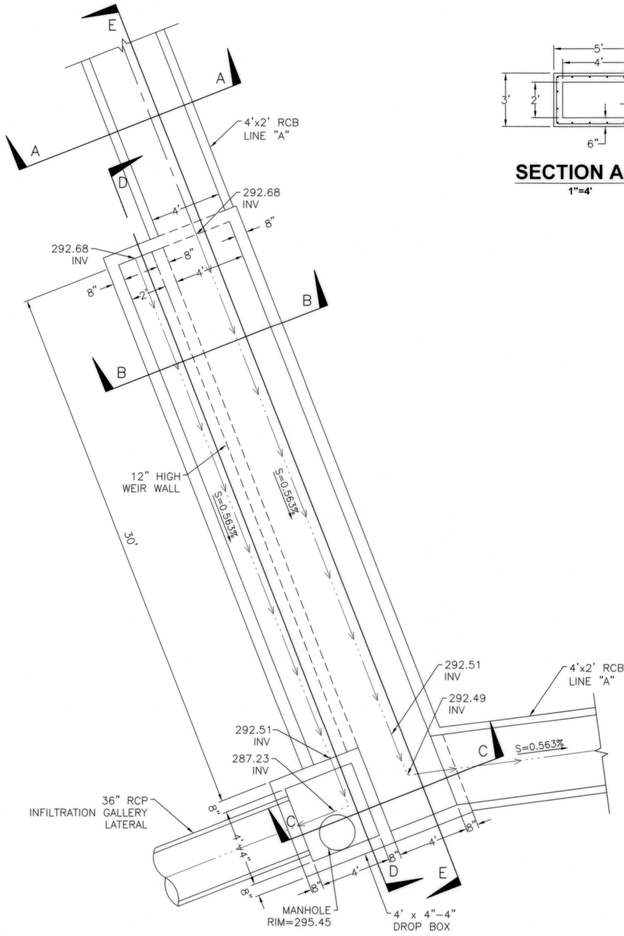
CITY OF EL MONTE PROJECT
CIP No. 884

DATE	DESIGNED BY: SB
02/13/2023	DRAWN BY: MN
SCALE AS SHOWN	CHECKED BY: WY
PLAN NUMBER	C-20
SHEET 20 OF 53	



DETAIL 1: UTILITY CROSS BELOW

N.T.S.

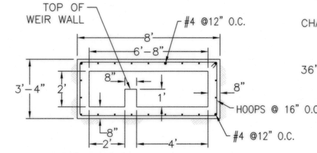


DETAIL 2: WEIR STRUCTURE

1"=4'

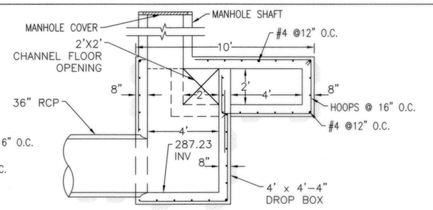
SECTION A-A

1"=4'



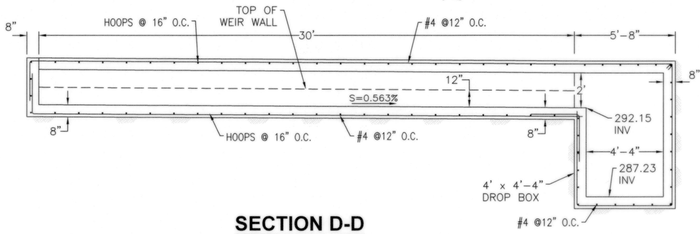
SECTION B-B

1"=4'



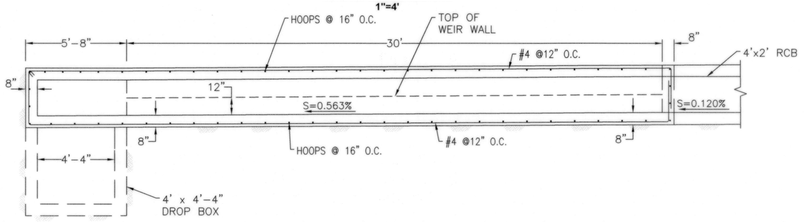
SECTION C-C

1"=4'



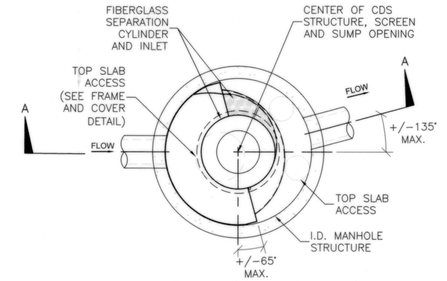
SECTION D-D

1"=4'



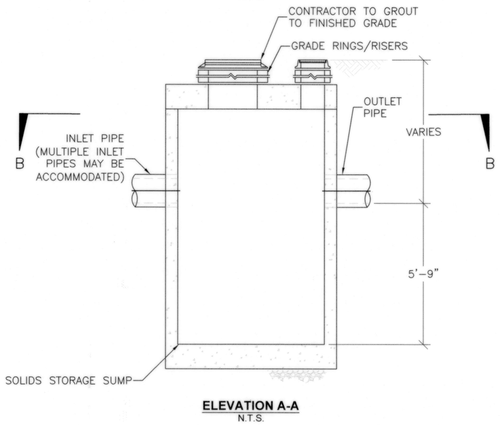
SECTION E-E

1"=4'



PLAN VIEW B-B

N.T.S.

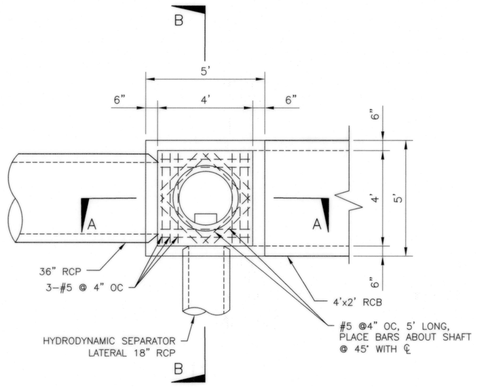


ELEVATION A-A

N.T.S.

DETAIL 4: HYDRODYNAMIC SEPARATOR

N.T.S.

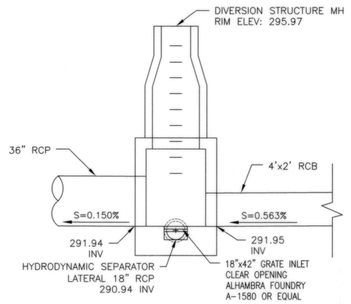


PLAN VIEW

N.T.S.

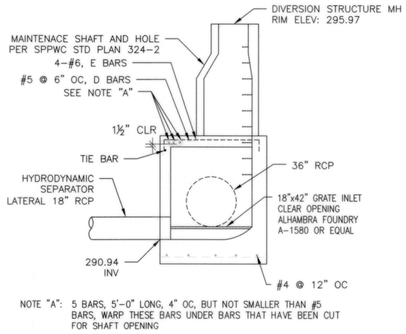
DETAIL 5: DROP DIVERSION STRUCTURE MODIFIED MH STD PLAN 320-2

N.T.S.



SECTION A-A

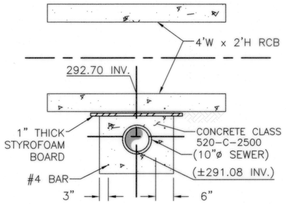
N.T.S.



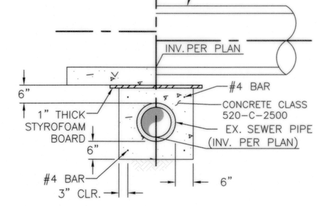
NOTE "A": 5 BARS, 5'-0" LONG, 4" OC, BUT NOT SMALLER THAN #5 BARS, WARP THESE BARS UNDER BARS THAT HAVE BEEN CUT FOR SHAFT OPENING

SECTION B-B

N.T.S.



DETAIL 3A: SEWER ENCASEMENT @SD STA 15+99.58



DETAIL 3B: SEWER ENCASEMENT

NOTE:
IF NEEDED, USE PLAIN END PIPE AND CLAMPS

DETAIL 3: SEWER ENCASEMENT

1"=2'

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG
02/13/2023

REGISTERED PROFESSIONAL ENGINEER WILLIAM F. YOUNG No. C 35715 Exp. 09/30/23 CIVIL STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

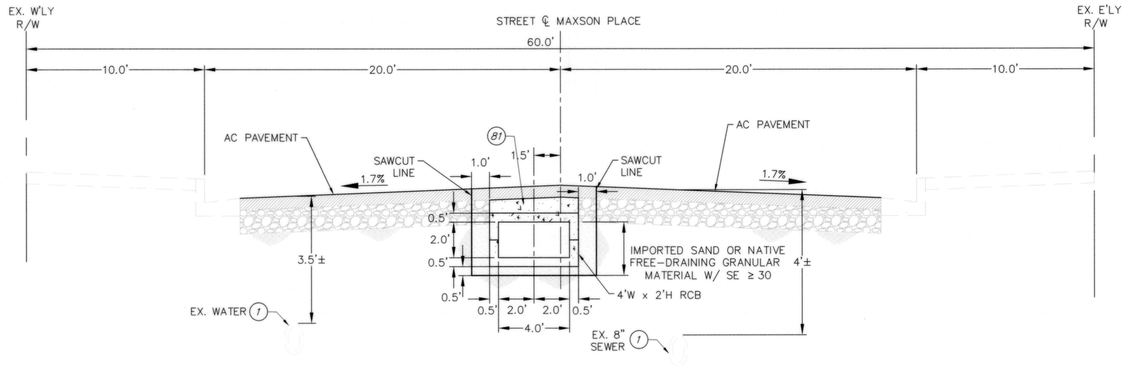
APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23
DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
STORM DRAIN DETAILS
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-21
SHEET 21 OF 53	

Drawing Name: z:\cip\884\dwg\Storm Drain Details.dwg
Last Saved By: mngyen
Plot Date: Mar 06, 2023 - 3:05pm

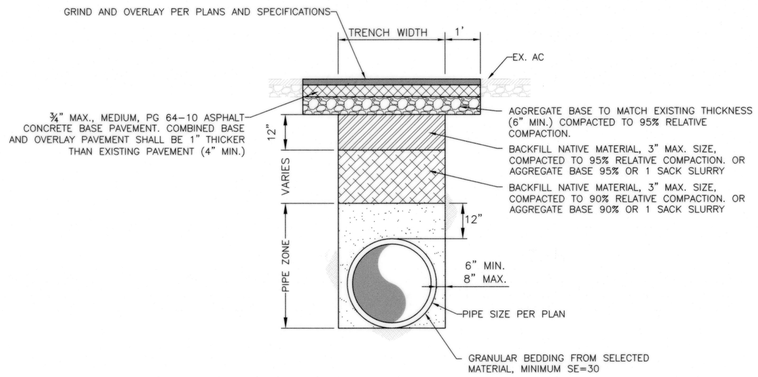


TYPICAL SECTION - F-F
4X2 RCB STA 14+45.11 TO 18+52.81

N.T.S.

CONSTRUCTION NOTES:

(1) — PROTECT IN PLACE
(B1) — BACKFILL WITH TRENCH BACKFILL SLURRY



PIPE BEDDING AND BACKFILL DETAIL

N.T.S.

NOTE: WHERE BACKFILL WITH TRENCH BACKFILL SLURRY IS NOTED ON PLANS, TRENCH BACKFILL SLURRY SHALL BE PLACED IN BACKFILL ZONE TO THE LEVEL OF THE SPRING LINE

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

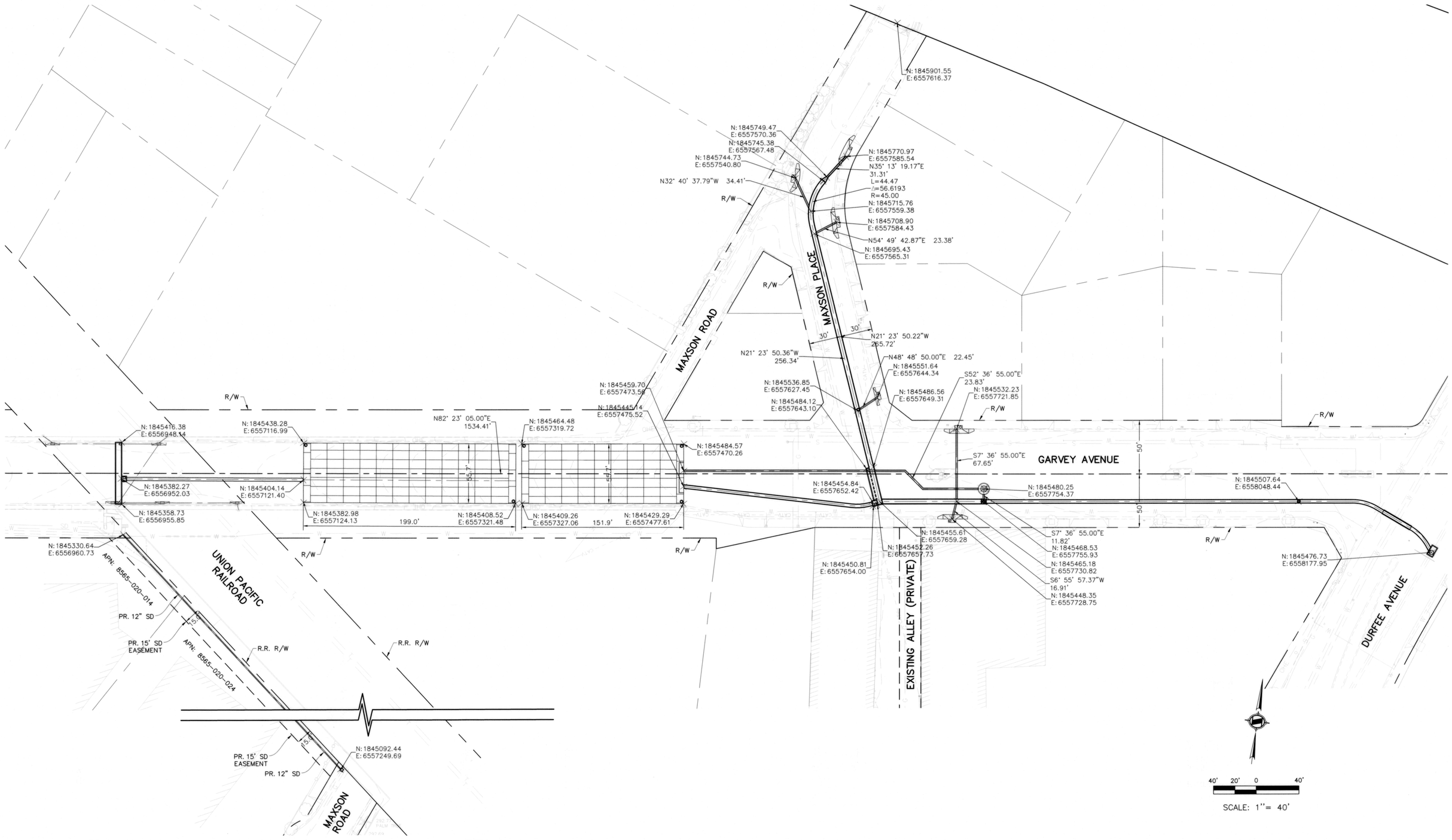
CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
DATE 4-20-23

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
STORM DRAIN DETAILS
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-22
SHEET 22 OF 53	



811 Know what's below. Call before you dig.

REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG
02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23
DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
HORIZONTAL CONTROL
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-23
SHEET 23 OF 53	

DRAWING NAME: S:\CIVIL\CIP\884 - Maxson Rd\Drawings\Plan\884-C23-HC.dwg
PLOT DATE: Mar 30, 2023 - 3:06pm PLOTTED BY: mngam

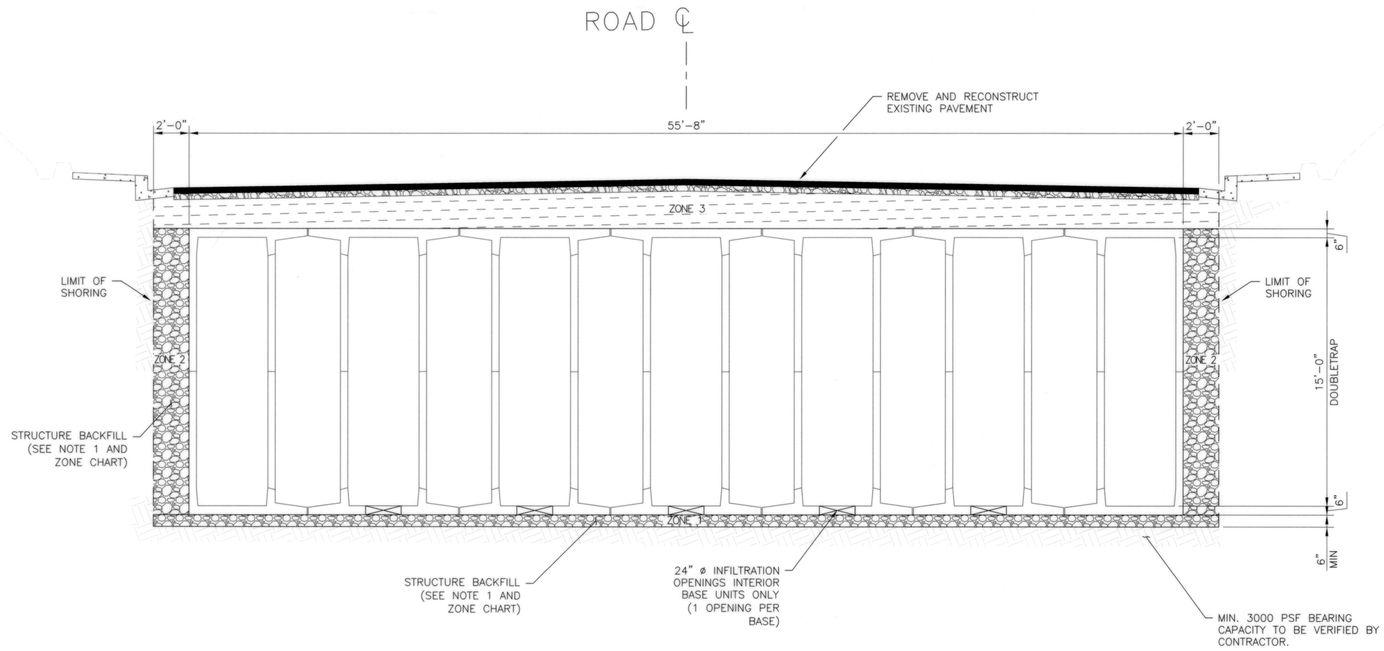
ZONE CHART		
ZONES	ZONE DESCRIPTIONS	REMARKS
ZONE 1	BACKFILL	(3/4") STONE AGGREGATE
ZONE 2	BACKFILL	STRUCTURE BACKFILL, (3/4") STONE AGGREGATE, SAND, CRUSHED CONCRETE AGGREGATE, OR ASTM #467 STONE AGGREGATE
ZONE 3	BACKFILL	MATERIALS NOT TO EXCEED 120 PCF

DESIGN LOADING		
FILL DEPTH	TRACK WIDTH	MAX GROUND PRESSURE
12"	12"	1690 psf
	18"	1219 psf
	24"	1111 psf
	30"	1000 psf
	36"	924 psf

STRUCTURAL DESIGN LOADING CRITERIA	
LIVE LOADING:	AASHTO HS-20 HIGHWAY LOADING
GROUNDWATER TABLE:	GROUNDWATER WAS NOT ENCOUNTERED 31.5' BELOW GRADE PER GEOTECHNICAL REPORT
SOIL BEARING PRESSURE:	3000 PSF
SOIL DENSITY:	120 PSF
EQUIVALENT UNSATURATED LATERAL ACTIVE EARTH PRESSURE:	35 PSF / FT.
EQUIVALENT SATURATED LATERAL ACTIVE EARTH PRESSURE:	80 PSF/FT. (IF WATER TABLE PRESENT)
APPLICABLE CODES:	AASHTO ACI-318
BACKFILL TYPE:	SEE ZONE CHART

INFILTRATION BASIN - 1 INFORMATION		INFILTRATION BASIN - 2 INFORMATION	
WATER STORAGE PROV:	115,141 CUBIC FEET	WATER STORAGE PROV:	150,397 CUBIC FEET
UNIT HEADROOM:	15'-0" DOUBLETRAP	UNIT HEADROOM:	15'-0" DOUBLETRAP
UNIT QUANTITY:	142 TOTAL UNITS	UNIT QUANTITY:	184 TOTAL UNITS

MATERIAL LIST		
INFILTRATION BASIN 1 QUANTITY	INFILTRATION BASIN 2 QUANTITY	DESCRIPTION
45	60	15'-0" DOUBLETRAP UNIT I
20	26	15'-0" DOUBLETRAP UNIT III
4	4	15'-0" DOUBLETRAP UNIT IV
2	2	15'-0" DOUBLETRAP UNIT SPIV
4	4	8" THICK PANELS
16	20	JOINT WRAP (150' PER ROLL)
48	46	JOINT TAPE (14.5' PER ROLL)
208	272	STRUCTURE BACKFILL MATERIAL (1/4") (CUBIC YARDS)
603	789	STRUCTURE BACKFILL MATERIAL (3/8") (CUBIC YARDS)
2	1	MANHOLE STRUCTURE AND COVER



TYPICAL INFILTRATION BASIN SECTION
NOT TO SCALE

ZONE CONSTRUCTION PROCEDURES

1. THE FILL PLACED AROUND THE STORAGE MODULES SHALL BE DEPOSITED CONCURRENTLY ON BOTH SIDES AND TO THE SAME ELEVATION. AT NO TIME SHALL THE FILL BEHIND ONE SIDE WALL BE MORE THAN 2' HIGHER THAN THE FILL ON THE OPPOSITE SIDE. BACKFILL SHALL EITHER BE COMPACTED AND/OR VIBRATED TO ENSURE THAT BACKFILL MATERIAL IS WELL SEATED AND PROPERLY INTER LOCKED. CARE SHALL BE TAKEN TO PREVENT ANY WEDGING ACTION AGAINST THE STRUCTURE. CARE SHALL BE TAKEN AS NOT TO DISRUPT THE JOINT WRAP FROM THE JOINT DURING THE BACKFILL PROCESS. THE BACKFILL MATERIAL SHALL MEET THE REQUIREMENTS OF SECTION 300-3.5 OF THE GREEN BOOK.
2. DURING PLACEMENT OF MATERIAL OVERTOP THE SYSTEM, AT NO TIME SHALL MACHINERY BE USED OVERTOP THAT EXCEEDS THE DESIGN LIMITATIONS OF THE SYSTEM. WHEN PLACEMENT OF MATERIAL OVERTOP, MATERIAL SHALL BE PLACED SUCH THAT THE DIRECTION OF PLACEMENT IS PARALLEL WITH THE OVERALL LONGITUDINAL DIRECTION OF THE SYSTEM WHENEVER POSSIBLE.
3. THE FILL PLACED OVERTOP THE SYSTEM SHALL BE PLACED AT A MINIMUM OF 6" LIFTS. AT NO TIME SHALL MACHINERY OR VEHICLES GREATER THAN THE DESIGN HS-20 LOADING CRITERIA TRAVEL OVERTOP THE SYSTEM WITHOUT THE MINIMUM DESIGN COVERAGE. IF TRAVEL IS NECESSARY OVERTOP THE SYSTEM PRIOR TO ACHIEVING THE MINIMUM DESIGN COVER, IT MAY BE NECESSARY TO REDUCE THE ULTIMATE LOAD/BURDEN OF THE OPERATING MACHINERY SO AS TO NOT EXCEED THE DESIGN CAPACITY OF THE SYSTEM. IN SOME CASES, IN ORDER TO ACHIEVE REQUIRED COMPACTION, HAND COMPACTION MAY BE NECESSARY IN ORDER NOT TO EXCEED THE ALLOTTED DESIGN LOADING. SEE CHART FOR TRACKED VEHICLE WIDTH AND ALLOWABLE MAXIMUM PRESSURE PER TRACK.

SITE SPECIFIC DESIGN CRITERIA

4. STORAGE UNITS SHALL BE MANUFACTURED AND INSTALLED ACCORDING TO SHOP DRAWINGS, STAMPED BY A CALIFORNIA STRUCTURAL ENGINEER, SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE SHOP DRAWINGS SHALL INDICATE SIZE AND LOCATION OF ROOF OPENINGS AND INLET/ OUTLET PIPE TYPES, SIZES, INVERT ELEVATIONS, AND SIZE OF OPENINGS.

FOR REFERENCE ONLY

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com
UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG
02/13/2023

REGISTERED PROFESSIONAL ENGINEER WILLIAM F. YOUNG No. C 35715 Exp. 09/30/23 CIVIL STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23 DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
TYPICAL INFILTRATION DETAILS
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884
DATE 02/13/2023 | DESIGNED BY: SB
SCALE AS SHOWN | DRAWN BY: MN
CHECKED BY: WY
PLAN NUMBER C-24
SHEET 24 OF 53

DRAWING (MAP): J:\CITY\CAD\...\Typ\Typ_Details\Typ_Details_Array\Typ_Details_Array.dwg
PLOT DATE: Jan 06, 2023 - 3:08pm
PLOTTED BY: mnguyen

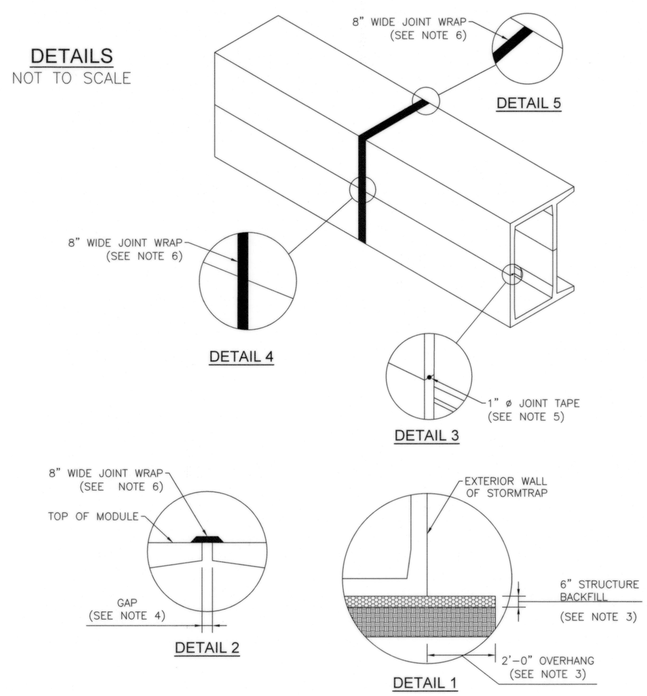
INSTALLATION SPECIFICATIONS

1. INFILTRATION BASIN SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C891, STANDARD FOR INSTALLATION OF UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES, THE FOLLOWING ADDITIONS AND/OR EXCEPTIONS SHALL APPLY.
2. PROPER/ADEQUATE EQUIPMENT SHALL BE USED TO SET/INSTALL THE MODULES.
3. MODULES CAN BE PLACED ON A LEVEL, 6" FOUNDATION OF STRUCTURE BACKFILL EXTENDING 2'-0" PAST THE OUTSIDE OF THE SYSTEM (SEE DETAIL 1) AND SHALL BE PLACED ON PROPERLY COMPACTED SOILS (SEE SHEET C-23 FOR BACKFILL SPECIFICATIONS AND SOIL BEARING CAPACITY REQUIREMENTS), AND IN ACCORDANCE WITH ASTM C891 STANDARD PRACTICE FOR INSTALLATION OF UNDERGROUND PRECAST UTILITY STRUCTURES.
4. THE PERIMETER HORIZONTAL JOINT BETWEEN THE TOP AND BASE LEG CONNECTION OF THE MODULES SHALL BE SEALED WITH PREFORMED MASTIC JOINT TAPE ACCORDING TO ASTM C891, 8.8 AND 8.12. (SEE DETAIL 3). THE MASTIC JOINT TAPE DOES NOT PROVIDE A WATERTIGHT SEAL.
5. ALL EXTERIOR JOINTS BETWEEN ADJACENT MODULES SHALL BE SEALED WITH 8" WIDE PRE-FORMED, COLD-APPLIED, SELF-ADHERING ELASTOMERIC RESIN, BONDED TO A WOVEN, HIGHLY PUNCTURE RESISTANT POLYMER WRAP, CONFORMING TO ASTM C891 AND SHALL BE INTEGRATED WITH PRIMER SEALANT AS APPROVED BY THE ENGINEER (SEE DETAILS 4 & 5). THE JOINT WRAP DOES NOT PROVIDE A WATERTIGHT SEAL. THE SOLE PURPOSE OF THE JOINT WRAP IS TO PROVIDE A SILT AND SOIL TIGHT SYSTEM. THE ADHESIVE EXTERIOR JOINT WRAP SHALL BE INSTALLED ACCORDING TO THE FOLLOWING INSTALLATION INSTRUCTIONS:

5.1. USE A BRUSH OR WET CLOTH TO THOROUGHLY CLEAN THE OUTSIDE SURFACE AT THE POINT WHERE JOINT WRAP IS TO BE APPLIED.

5.2. A RELEASE PAPER PROTECTS THE ADHESIVE SIDE OF THE JOINT WRAP. PLACE THE ADHESIVE TAPE (ADHESIVE SIDE DOWN) AROUND THE STRUCTURE, REMOVING THE RELEASE PAPER AS YOU GO. PRESS THE JOINT WRAP FIRMLY AGAINST THE MODULE SURFACE WHEN APPLYING.

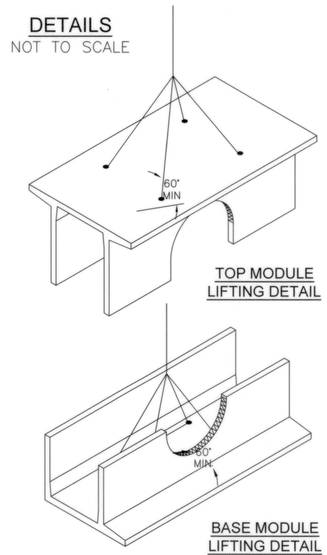
DETAILS
NOT TO SCALE

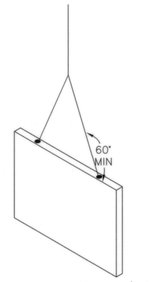


END PANEL ERECTION/INSTALLATION NOTES

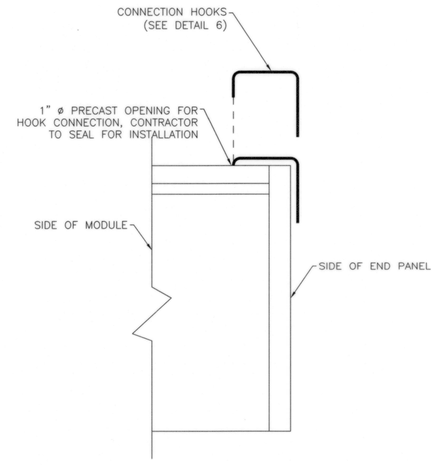
1. END PANELS WILL BE USED TO CLOSE OFF OPEN ENDS OF ROWS.
2. PANELS SHALL BE INSTALLED IN A TILT UP FASHION DIRECTLY ADJACENT TO OPEN END OF MODULE.
3. CONNECTION HOOKS SHALL BE USED WITH END PANELS TO SECURELY CONNECT PANEL TO ADJACENT MODULE (SEE PANEL CONNECTION ELEVATION VIEW).
4. ONCE CONNECTION HOOK IS ATTACHED, LIFTING CLUTCHES MAY BE REMOVED.
5. JOINT WRAP SHALL BE PLACED AROUND PERIMETER JOINT PANEL (SEE DETAILS HEREON).

DETAILS
NOT TO SCALE

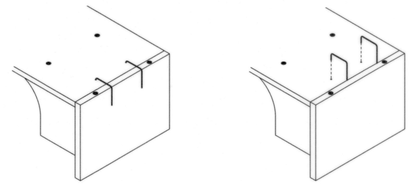




END PANEL LIFTING DETAIL



PANEL CONNECTION ELEVATION VIEW



STEP 1 STEP 2

DETAIL 6
NOT TO SCALE

ACCESS OPENING SPECIFICATION

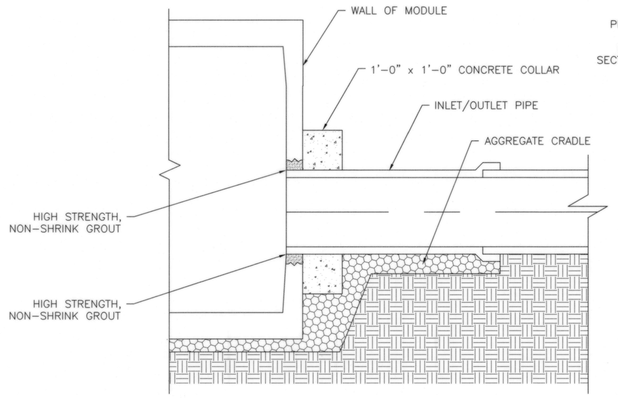
1. ALL OPENINGS MUST RETAIN AT LEAST 1'-0" OF CLEARANCE FROM THE END OF THE MODULE. ALL ACCESS OPENINGS TO BE LOCATED ON INSIDE LEG.
2. STEPS SHALL BE PER SPPWC 636-3 AND ARE PROVIDED INSIDE ANY MODULE AS SHOWN IN THESE PLANS. THE HIGHEST STEP IN THE MODULE IS TO BE PLACED A DISTANCE OF 0.50' FROM THE INSIDE EDGE OF THE MODULES. ALL ENSUING STEPS SHALL BE PLACED WITH A MAXIMUM DISTANCE OF 1'-3" BETWEEN THEM. STEPS MAY BE MOVED OR ALTERED TO AVOID OPENINGS OR OTHER IRREGULARITIES IN THE MODULE.
3. LIFTING INSERTS SHALL BE RELOCATED TO AVOID INTERFERENCE WITH ACCESS OPENINGS OR THE CENTER OF GRAVITY OF THE MODULE AS NEEDED.
4. ACCESS OPENINGS SHALL BE RELOCATED TO AVOID INTERFERENCE WITH INLET AND/OR OUTLET PIPE OPENINGS SO PLACEMENT OF STEPS IS ATTAINABLE.
5. PRECAST ADJUSTING RINGS SHALL BE USED AS NEEDED TO MEET GRADE.

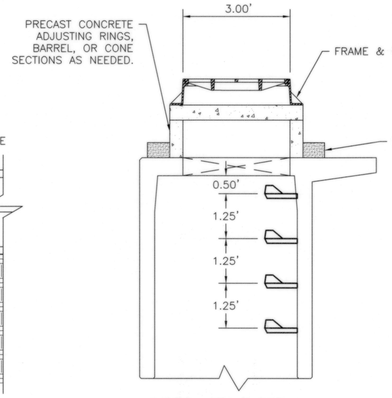
PIPE OPENING SPECIFICATION

1. MINIMUM EDGE DISTANCE FOR AN OPENING ON THE OUTSIDE WALL SHALL BE NO LESS THAN 1'-0".
2. CONNECTING PIPES SHALL BE INSTALLED WITH A 1'-0" CONCRETE COLLAR, AND AN AGGREGATE CRADLE FOR AT LEAST ONE PIPE LENGTH (SEE PIPE CONNECTION DETAIL). A STRUCTURAL GRADE CONCRETE OR HIGH STRENGTH, NON-SHRINK GROUT WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI SHALL BE USED.
3. THE ANNULAR SPACE BETWEEN THE PIPE AND THE HOLE SHALL BE FILLED WITH HIGH STRENGTH NON-SHRINK GROUT.

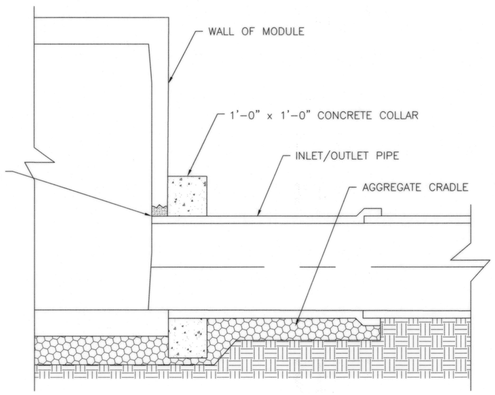
PIPE INSTALLATION INSTRUCTIONS

1. CLEAN AND LIGHTLY LUBRICATE ALL OF THE PIPE TO BE INSERTED INTO THE SUBSURFACE STORAGE SYSTEM.
2. IF PIPE IS CUT, CARE SHOULD BE TAKEN TO ALLOW NO SHARP EDGES. BEVEL AND LUBRICATE LEAD END OF PIPE.
3. ALIGN CENTER OF PIPE TO CORRECT ELEVATION AND INSERT INTO OPENING.





RISER / STAIR DETAIL



PIPE CONNECTION DETAIL
NOT TO SCALE

FOR REFERENCE ONLY

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

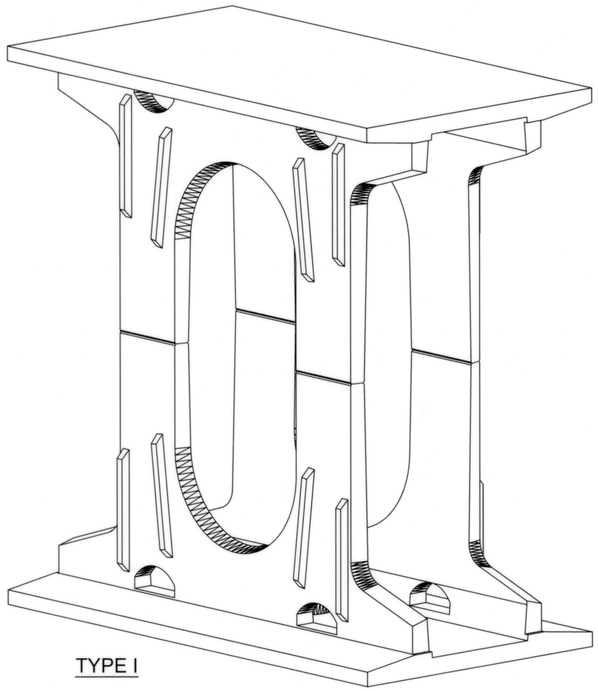
REGISTERED PROFESSIONAL ENGINEER WILLIAM F. YOUNG No. C 35715 Exp. 09/30/23 CIVIL STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

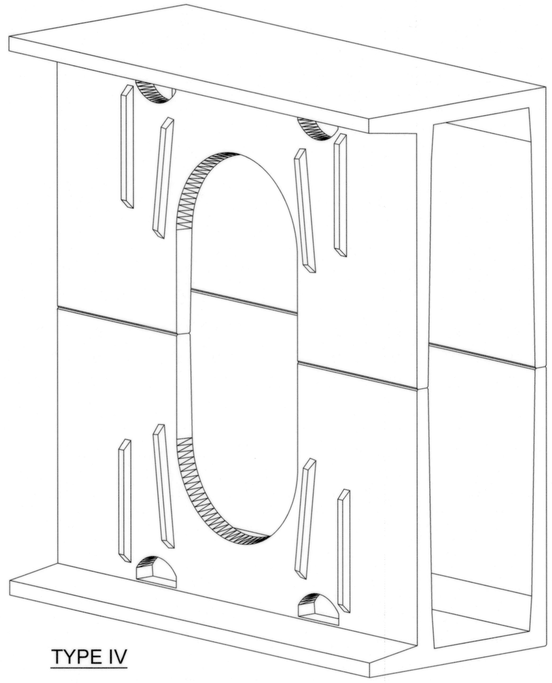
APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23 DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
TYPICAL INFILTRATION DETAILS
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

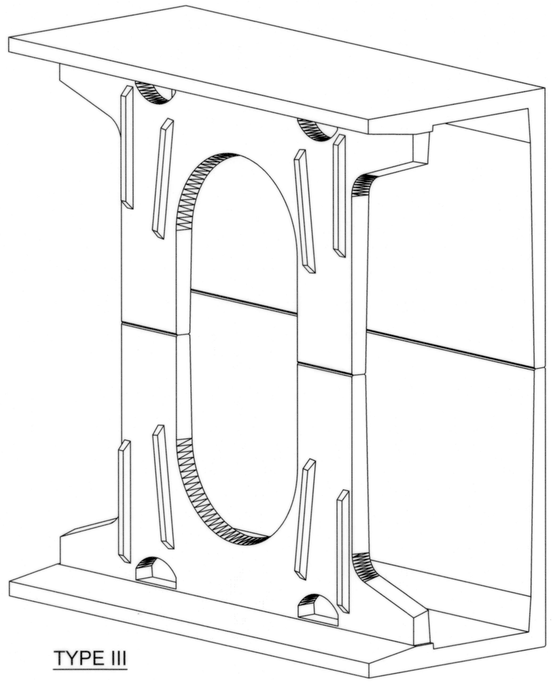
CITY OF EL MONTE PROJECT	
CIP No. 884	
DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-25
SHEET 25 OF 53	



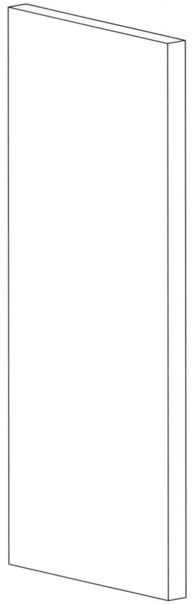
TYPE I



TYPE IV



TYPE III



TYPE IV
END PANEL

NOTES:

1. OPENING LOCATIONS AND SHAPES MAY VARY.
2. SP – INDICATES A MODULE WITH MODIFICATIONS.
3. P – INDICATES A MODULE WITH A PANEL ATTACHMENT.
4. POCKET WINDOW OPENINGS ARE OPTIONAL.

FOR REFERENCE ONLY

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG
02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
DATE 4-20-23

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

TYPICAL INFILTRATION BASIN DETAILS

GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
	DRAWN BY: MN
SCALE AS SHOWN	CHECKED BY: WY
PLAN NUMBER	C-26
SHEET 26 OF 53	

TRAFFIC CONTROL GENERAL NOTES

1. ALL TRAFFIC CONTROL WORK FOR CONSTRUCTION SHALL CONFORM TO PART 6, "TEMPORARY TRAFFIC CONTROL" OF THE 2014 CALIFORNIA MUTCD, AND THE 2018 CALTRANS STANDARD PLANS AND SPECIFICATION. SIGNING AND STRIPING SHALL CONFORM TO LATEST CALIFORNIA MUTCD, STANDARD PLANS AND STANDARD SPECIFICATIONS. SIGNS SHALL BE STANDARD UNLESS NOTED OTHERWISE.
2. EXACT LOCATION OF ALL TRAFFIC CONTROL DEVICES SHALL BE AS DIRECTED BY ENGINEER BASED ON CONSTRUCTION CONDITIONS. ADDITIONAL WARNING OR CONSTRUCTION SIGNS MAY BE REQUIRED BY THE ENGINEER.
3. ALL NIGHT WORK SHALL BE APPROVED IN ADVANCED BY THE ENGINEER.
4. STREET CLOSURES SHALL BE APPROVED BY THE ENGINEER WHEREVER APPLICABLE. DETOUR PLANS SHALL BE SUBMITTED AND APPROVED BY THE CITY WHEREVER APPLICABLE. RESIDENTS/BUSINESSES SHALL BE NOTIFIED ONE WEEK PRIOR TO CONSTRUCTION.
5. PRESSURE SENSITIVE DETOUR GRADE TRAFFIC MARKING TAPE AND/OR TEMPORARY FLEXIBLE RAISED PAVEMENT MARKERS MAY BE REQUIRED TO SUPPLEMENT THE CHANNELIZING DEVICES, DRUMS, REFLECTORIZED SIGNS, PAINT, AND BARRICADES AS DIRECTED BY THE ENGINEER.
6. ALL CONFLICTING STRIPES, PAVEMENT MARKINGS, RAISED PAVEMENT MARKERS AND LEGENDS SHALL BE COMPLETELY REMOVED BY WET SANDBLASTING OR GRINDING PRIOR TO ANY CHANGE IN THE TRAFFIC PATTERN. NO CONFLICTING STRIPES, PAVEMENT MARKINGS OR LEGENDS SHALL BE BLACKED OUT WITH PAINT.
7. ALL ADVANCE WARNING SIGN INSTALLATIONS SHALL BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES.
8. ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE, UNLESS NOTED OTHERWISE. ALL W20-1, W20-5, AND W4-2 SIGNS SHALL BE MINIMUM 30" x 30".
9. TYPE II BARRICADES MAY BE USED IN ADDITION TO DELINEATORS, AT THE DISCRETION OF THE CONTRACTOR, WHEN THEY ARE INTENDED TO PROVIDED ADDITIONAL EMPHASIS IN AREAS WHERE WORKERS ARE PRESENT.
10. USE AND PLACEMENT OF FLASHING ARROW BOARD(S) AND CHANGEABLE MESSAGE SIGN(S) SHALL BE AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.
11. THE CONTRACTOR SHALL MAINTAIN, ON A 24-HOUR BASIS, ALL SIGNS, DRUMS, BARRICADES, ETC., TO ENSURE PROPER FLOW AND SAFETY OF TRAFFIC.
12. THE CONTRACTOR SHALL UTILIZE FLAGGERS DURING WORK HOURS AS DEEMED NECESSARY BE THE ENGINEER.
13. THE CONTRACTOR SHALL HAVE ALL SIGNS, DRUMS, BARRICADES, ETC., PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION AND BEFORE ATTEMPTING TO SWITCH TO A SUBSEQUENT STAGE DURING WORK HOURS.
14. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO ABUTTING BUSINESSES AND PROPERTY OWNERS.
15. CONSTRUCTION TRUCK TRAFFIC MERGING INTO TRAFFIC LANES SHALL BE DONE BY USE A FLAGGER AND APPROPRIATE SIGNAGE AS DIRECTED BY ENGINEER.
16. FLASHING ARROW SIGNS (FAS) AND PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL CONFORM TO THE SPECIAL PROVISIONS AND BE EITHER SOLAR OR BATTERY OPERATED. GASOLINE AND DIESEL POWERED FAS AND PCMS ARE PROHIBITED.
17. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND REFLECTORIZED PER CALTRANS SPECIFICATION UNLESS OTHERWISE.
18. ALL WORK IN EACH PHASE SHALL BE COMPLETE BEFORE WORK IN ANOTHER PHASE MAY BEGIN.
19. TRAFFIC SIGNALS (EXISTING, NEW OR TEMPORARY) SHALL BE OPERATIONAL AT ALL TIMES AT SIGNALIZED INTERSECTIONS.
20. ALL CONFLICTING SIGNAL HEADS SHALL BE COVERED DURING LONG TERM CLOSURE WHEN DIRECTED BY THE ENGINEER.
21. THE CONTRACTOR SHALL PROVIDE PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) TO BE IN USE FOR THE DURATION OF THE PROJECT. USE, PLACEMENT, AND FLASHING MESSAGE TEXT SHALL BE AS SHOWN ON THESE PLANS OR AS DIRECTED BY THE ENGINEER. PAYMENT IS INCLUDED IN THE UNIT PRICE FOR "PORTABLE CHANGEABLE MESSAGE SIGNS".
22. TEMPORARY "NO PARKING -- TOW AWAY" SIGNS SHALL BE POSTED WITHIN AFFECTED CONSTRUCTION AREAS A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION.
23. THE CONTRACTOR SHALL PROVIDE FOR 24 HOUR ACCESS TO ALL ADJACENT PROPERTIES. THIS SHALL INCLUDE BUT NOT BE LIMITED TO DRIVEWAYS AND WALKWAYS, EXCEPT AS INDICATE ON THESE PLANS AND IN THE SPECIFICATIONS. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO ABUTTING PROPERTY OWNERS/OPERATIONS.
24. ALL PROPERTIES THAT HAVE ACCESS ADJACENT TO THE WORK AREA SHALL BE NOTIFIED OF ACCESS RESTRICTIONS (IN WRITING 48 HOURS MINIMUM BEFORE START OF WORK). THE NOTIFICATION SHALL DESCRIBE THE ACCESS LIMITATIONS, DATES OF LIMITATION, AND GIVE THE APPROXIMATE DATE AND TIME OF ACCESS RESTORATION. NO ACCESS SHALL BE LIMITED DURING NON-WORKING HOURS EXCEPT AS APPROVED BY THE ENGINEER. NO WORK IS PERMITTED ON SUNDAYS OR HOLIDAYS UNLESS APPROVED BY THE CITY.
25. FLASHING YELLOW BEACONS, TYPE "B", SHALL BE USED ON ALL W20-1 SIGNS, AND ALL TYPE III BARRICADES GUARDING THE WORK AREA OVERNIGHT.
26. UNEVEN PAVEMENT SIGN(S) (W8-11) SHALL BE PLACED WHERE UNEVENESS IN PAVEMENT DUE TO CONSTRUCTION OPERATIONS OCCUR.
27. THE CONTRACTOR SHALL PROVIDE FOR SAFE PEDESTRIAN ACCESS AT ALL TIMES. TEMPORARY PEDESTRIAN ACCESS SHALL BE 5' MINIMUM WIDTH. ANY AND ALL PEDESTRIAN DETOUR ROUTES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE DETOUR ROUTE IS ESTABLISHED.
28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PROTECTION OF TRAFFIC SIGNAL LOOP-SENSORS AND SIGNAL AND INTERCONNECT CONDUITS. WHERE DAMAGE IS CAUSED BY THE CONTRACTOR'S OPERATION, THE CONTRACTOR SHALL REPLACE DAMAGED CITY FACILITY AT NO COST TO THE CITY.
29. THE FOLLOWING AGENCIES SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF ANY DETOUR AND/OR CONSTRUCTION ACTIVITES.

CITY OF EL MONTE	(626) 580-2058
POLICE (GIVE LOCATION AND DURATION)	(626) 580-2100
FIRE DEPARTMENT	(626) 433-4946

TRAFFIC CONTROL PLAN SHEET INDEX

PHASE	WORK	SHEET
	TRAFFIC CONTROL PLAN - TITLE SHEET	27
1	CONSTRUCT 48" MANHOLE AND LINE "A" ON DURFEE AVENUE	28
1	CONSTRUCT 48" MANHOLE AND LINE "A" ON DURFEE AVENUE	29
1	CONSTRUCT 48" MANHOLE AND LINE "A" ON DURFEE AVENUE	30
2	CONSTRUCT 48" LINE "A" ON DURFEE AVENUE	31
2	CONSTRUCT 48" LINE "A" ON DURFEE AVENUE	32
2	CONSTRUCT 48" LINE "A" ON DURFEE AVENUE	33
3	CONSTRUCT INFILTRATION BASIN SYSTEM ON GARVEY AVENUE	34
3	CONSTRUCT INFILTRATION BASIN SYSTEM ON GARVEY AVENUE	35
3	CONSTRUCT INFILTRATION BASIN SYSTEM ON GARVEY AVENUE	36
	DETOUR PLAN	37
4	GARVEY AVENUE - STREET IMPROVEMENT	38
4	GARVEY AVENUE - STREET IMPROVEMENT	39
4	GARVEY AVENUE - STREET IMPROVEMENT	40
5	GARVEY AVENUE - STREET IMPROVEMENT	41
5	GARVEY AVENUE - STREET IMPROVEMENT	42

PORTABLE CHANGEABLE MESSAGE SIGNS:

1. CONTRACTOR SHALL BE PROGRAM EACH SCREEN OF ALL PORTABLE CHANGEABLE MESSAGE SIGNS TO FLASH AS DIRECTED BELOW UNLESS OTHERWISE NOTED.

ONE WEEK PRIOR TO CONSTRUCTION,
SEE LOCATION MAP BELOW

(A)

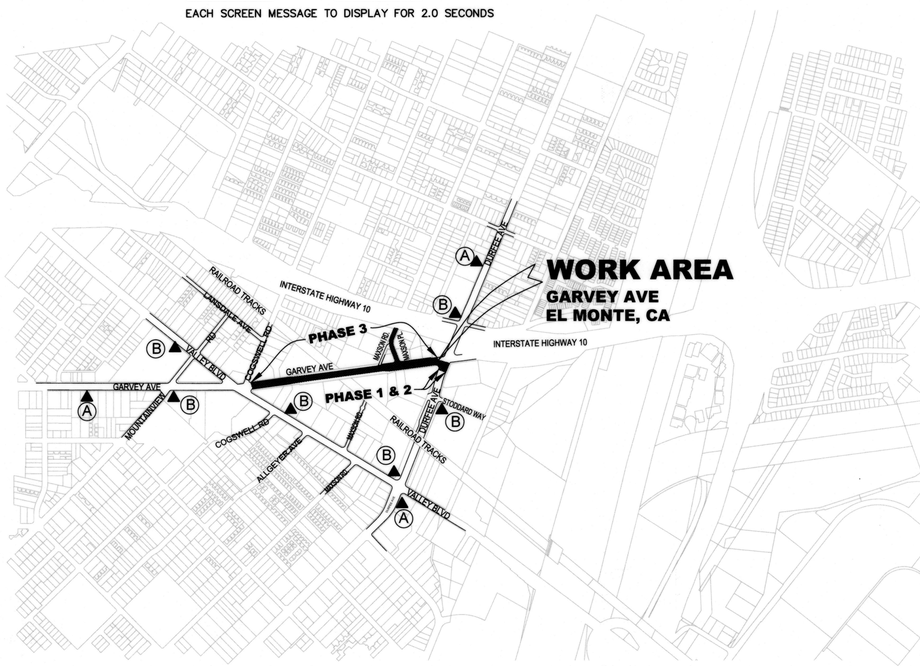
SCREEN 1	SCREEN 2
ROADWORK	STARTING
AHEAD	MONDAY
	JUN XXXX

EACH SCREEN MESSAGE TO DISPLAY FOR 2.0 SECONDS

(B)

SCREEN 1	SCREEN 2
ROADWORK	STARTING
ON	MONDAY
GARVEY	JUN XXXX

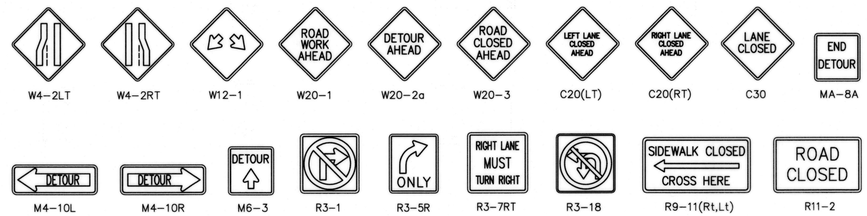
EACH SCREEN MESSAGE TO DISPLAY FOR 2.0 SECONDS

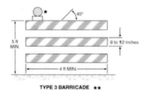


LOCATION MAP

NO SCALE

TRAFFIC SIGN LEGEND:





* WARNING LIGHTS
** RAIL STRIPE WIDTHS SHALL BE 6 INCHES, EXCEPT THAT 4-INCH WIDE STRIPES MAY BE USED IF RAIL LENGTHS ARE LESS THAN 36 INCHES.

TRAFFIC CONTROL LEGEND:

- CONSTRUCTION DELINEATORS (DOUBLE BASE)
- SIGN ON TRAFFIC BARRICADE TYPE II OR III
- CONCRETE BARRICADE
- ARROW BOARD
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- TRAFFIC DIRECTION
- WORK AREA
- EXISTING PAVEMENT MARKING
- INTERSECTION WITH TRAFFIC SIGNAL
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) WITH THE MESSAGE ONE WEEK PRIOR TO CONSTRUCTION

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG
02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

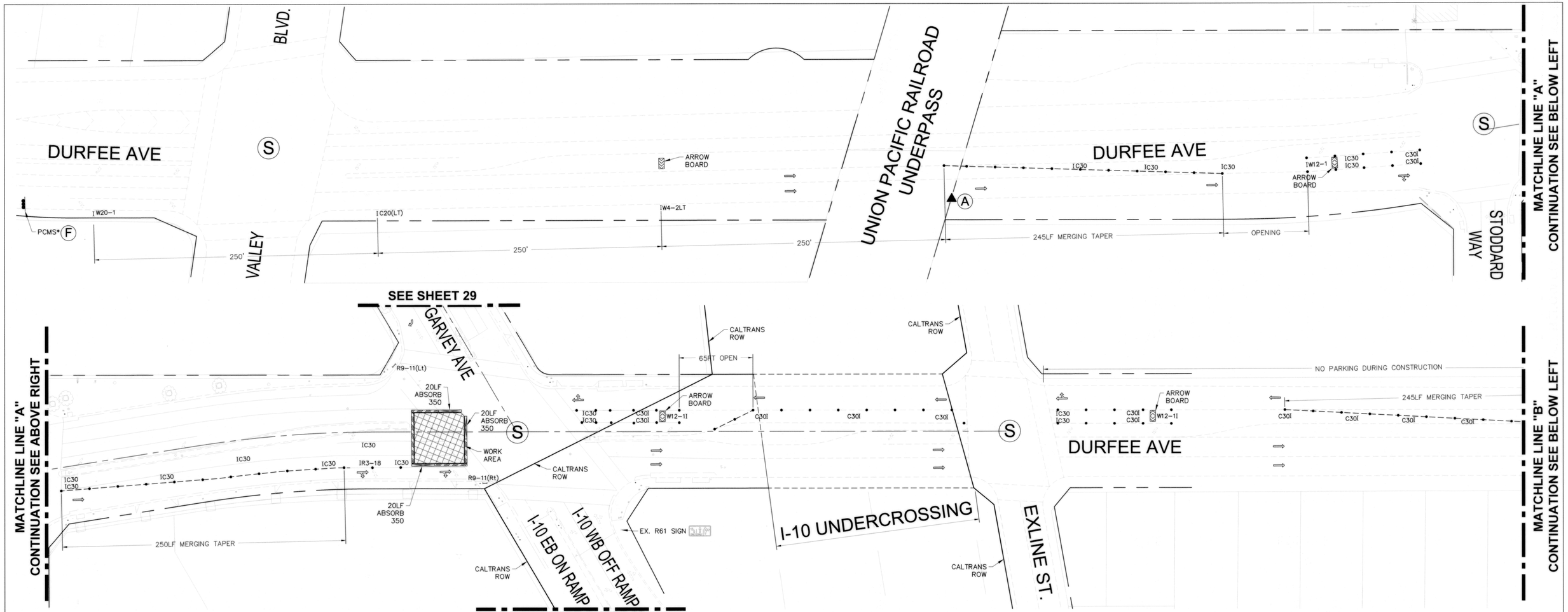
APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23
DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
TRAFFIC CONTROL TITLE SHEET
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER C-27	
SHEET 27 OF 53	

Drawing Name: G:\ENGR\Projects\Active\884 - Garvey Ave Street Improvements\Design\Plans\Traffic Control\Traffic Control Title Sheet.dwg
Last Saved By: mngyen
Date Saved: 2/13/2023 10:58:00 AM
Plot Date: 2/13/2023 10:58:00 AM



TRAFFIC CONTROL LEGEND:

- CONSTRUCTION DELINEATORS (DOUBLE BASE)
- SIGN ON TRAFFIC BARRICADE TYPE II OR III
- CONCRETE BARRICADE
- ARROW BOARD
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- TRAFFIC DIRECTION
- WORK AREA
- EXISTING PAVEMENT MARKING
- (S) INTERSECTION WITH TRAFFIC SIGNAL
- ▲ PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) WITH THE MESSAGE ONE WEEK PRIOR TO CONSTRUCTION

* PORTABLE CHANGEABLE MESSAGE SIGN

1. CONTRACTOR SHALL BE PROGRAM EACH SCREEN OF ALL PORTABLE CHANGEABLE MESSAGE SIGNS TO FLASH AS DIRECTED BELOW UNLESS OTHERWISE NOTED.
2. ALL PCMS SHALL BE PLACE ON STREET SURFACE.

ONE WEEK PRIOR TO CONSTRUCTION,

(A)

SCREEN 1	SCREEN 2
ROADWORK	STARTING
AHEAD	MONDAY
	JUN XXXX

EACH SCREEN MESSAGE TO DISPLAY FOR 2.0 SECONDS

MODIFY TEXT DURING CONSTRUCTION
EACH SCREEN MESSAGE TO DISPLAY FOR 2.0 SECONDS

(F)

SCREEN 1	SCREEN 2
ROADWORK	EXPECT
AHEAD	DELAYS

TRAFFIC SIGN LEGEND:



W4-2LT W12-1 W20-1 C20(LT) C30 R3-18 R9-11(Rt,Lt)

NOTE:

1. WORK HOURS 7:00AM TO 7:00PM, MONDAY-FRIDAY NO WORK SHALL BE DONE ON THE WEEKEND
2. SANDBLAST ANY CONFLICTING PAVEMENT MARKING
3. STEEL PLATES ARE REQUIRED AT THE END OF THE WORKING DAY FOR ANY OPEN SECTION OF TRENCH
4. CENTER DELINEATORS THROUGH STRIPING REMOVAL AREA SHALL BE YELLOW. OUTSIDE LANE TRANSITION DELINEATORS SHALL BE ORANGE
5. DELINEATORS OUTSIDE OF STRIPING REMOVAL AREA SHALL BE DRUM TYPE (ORANGE)
6. CONTRACTOR SHALL RESTORE ALL ORIGINAL PAVEMENT MARKING WHEN PROJECT IS COMPLETE
7. ALL PCMS SHALL BE PLACE ON STREET SURFACE

40' 20' 0 40'

SCALE: 1"= 40'

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER WILLIAM F. YOUNG No. C 35715 Exp. 09/30/23 CIVIL STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:

REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ — DATE 4-20-23

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

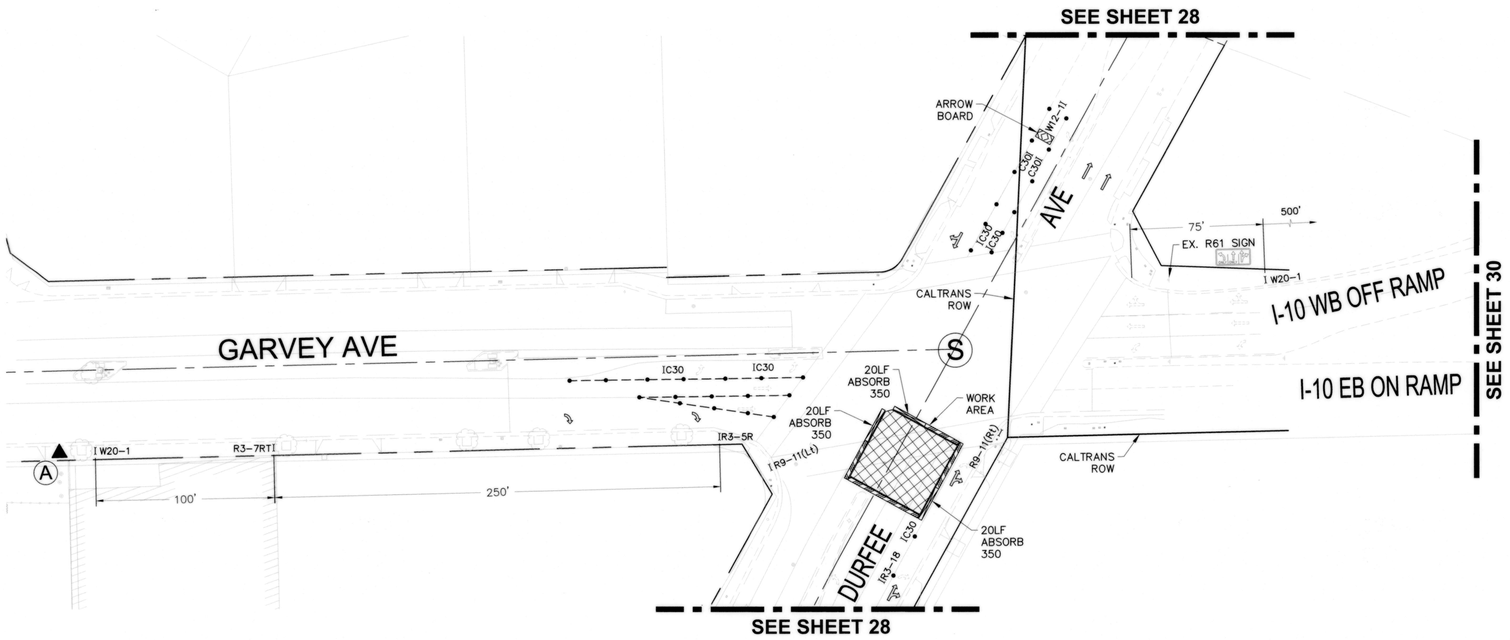
TRAFFIC CONTROL PLAN - PHASE 1

GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

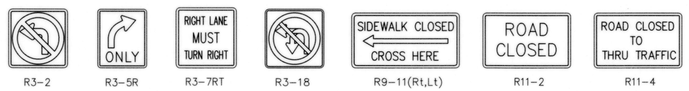
DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-28
SHEET 28 OF 53	

DRAWING NAME: J:\CWE\CIP\884 - Garvey\01 Design\Cad\Traffic Control Phase 1.dwg
PLOTTED BY: megan
PLOT DATE: Mar 06, 2023 - 3:56pm



TRAFFIC SIGN LEGEND:





* PORTABLE CHANGEABLE MESSAGE SIGN

1. CONTRACTOR SHALL BE PROGRAM EACH SCREEN OF ALL PORTABLE CHANGEABLE MESSAGE SIGNS TO FLASH AS DIRECTED BELOW UNLESS OTHERWISE NOTED.
2. ALL PCMS SHALL BE PLACE ON STREET SURFACE.

ONE WEEK PRIOR TO CONSTRUCTION,

Ⓐ

SCREEN 1
ROADWORK
AHEAD

SCREEN 2
STARTING
MONDAY
JUN XXXX

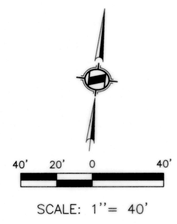
EACH SCREEN MESSAGE TO DISPLAY FOR 2.0 SECONDS

TRAFFIC CONTROL LEGEND:

- CONSTRUCTION DELINEATORS (DOUBLE BASE)
- SIGN ON TRAFFIC BARRICADE TYPE II OR III
- CONCRETE BARRICADE
- ARROW BOARD
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- TRAFFIC DIRECTION
- WORK AREA
- EXISTING PAVEMENT MARKING
- Ⓢ INTERSECTION WITH TRAFFIC SIGNAL
- ▲ PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) WITH THE MESSAGE ONE WEEK PRIOR TO CONSTRUCTION

NOTE:

1. WORK HOURS 7:00AM TO 7:00PM, MONDAY-FRIDAY NO WORK SHALL BE DONE ON THE WEEKEND
2. SANDBLAST ANY CONFLICTING PAVEMENT MARKING
3. STEEL PLATES ARE REQUIRED AT THE END OF THE WORKING DAY FOR ANY OPEN SECTION OF TRENCH
4. CENTER DELINEATORS THROUGH STRIPING REMOVAL AREA SHALL BE YELLOW. OUTSIDE LANE TRANSITION DELINEATORS SHALL BE ORANGE
5. DELINEATORS OUTSIDE OF STRIPING REMOVAL AREA SHALL BE DRUM TYPE (ORANGE)
6. CONTRACTOR SHALL RESTORE ALL ORIGINAL PAVEMENT MARKING WHEN PROJECT IS COMPLETE
7. ALL PCMS SHALL BE PLACE ON STREET SURFACE



SCALE: 1"= 40'

811 Know what's below. Call before you dig.

REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER WILLIAM F. YOUNG No. C 35715 Exp. 09/30/23 CIVIL STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

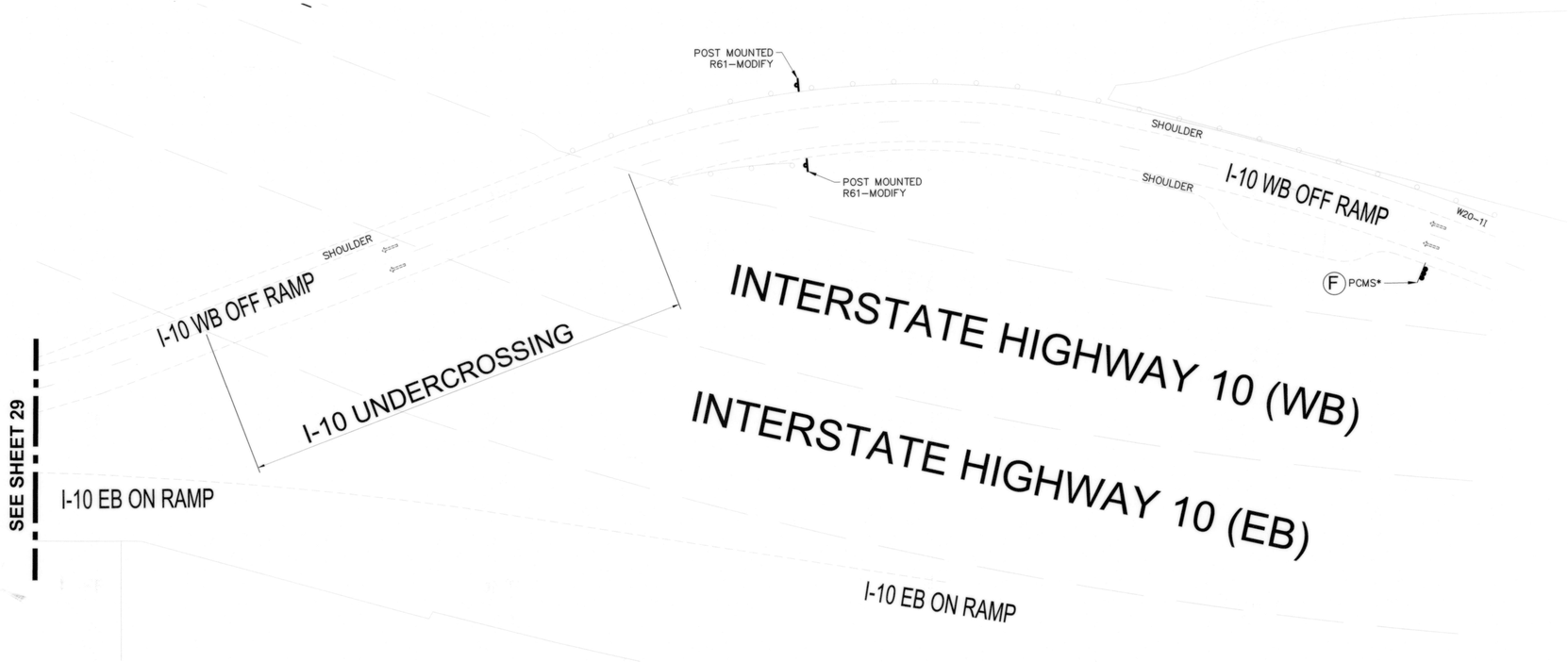
APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23 DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
TRAFFIC CONTROL PLAN - PHASE 1
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-29
SHEET 29 OF 53	

2021/02/13 13:41:22 D:\Projects\2021\21-012-CIP-Traffic Control Phase 1.dwg



TRAFFIC SIGN LEGEND:



W20-1 R61-MODIFY

TRAFFIC CONTROL LEGEND:

- CONSTRUCTION DELINEATORS (DOUBLE BASE)
- ARROW BOARD
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) WITH THE MESSAGE ONE WEEK PRIOR TO CONSTRUCTION
- EXISTING TRAFFIC DIRECTION
- EXISTING PAVEMENT MARKER

* PORTABLE CHANGEABLE MESSAGE SIGN

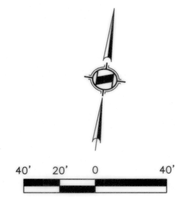
1. CONTRACTOR SHALL BE PROGRAM EACH SCREEN OF ALL PORTABLE CHANGEABLE MESSAGE SIGNS TO FLASH AS DIRECTED BELOW UNLESS OTHERWISE NOTED.
2. ALL PCMS SHALL BE PLACE ON STREET SURFACE.

MODIFY TEXT DURING CONSTRUCTION
EACH SCREEN MESSAGE TO DISPLAY FOR 2.0 SECONDS

(F)

SCREEN 1
ROAD
AHEAD

SCREEN 2
EXPECT
DELAY



SCALE: 1"= 40'

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER WILLIAM F. YOUNG No. C 35715 Exp. 09/30/23 CIVIL STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23 DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

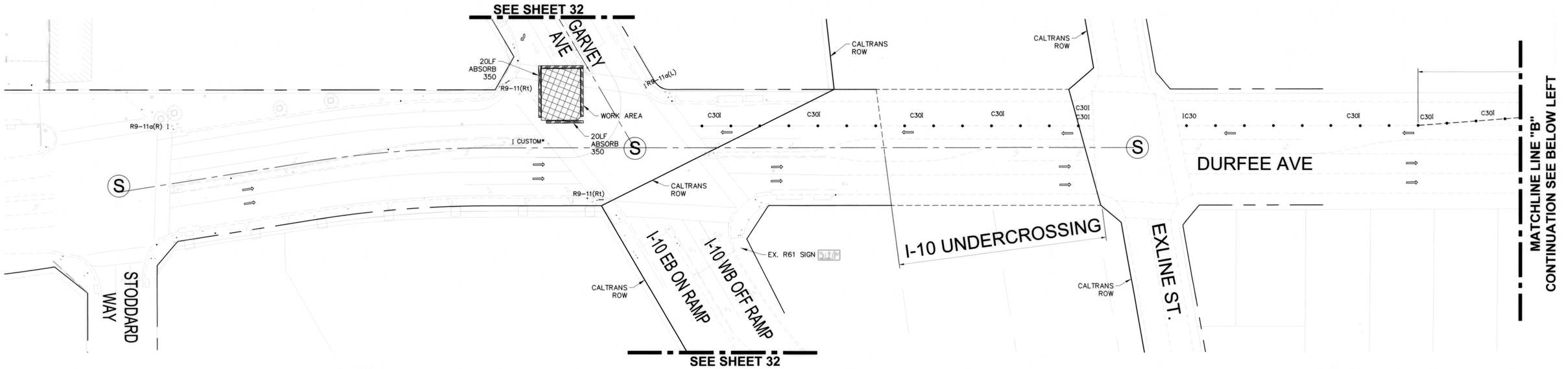
TRAFFIC CONTROL PLAN - PHASE 1

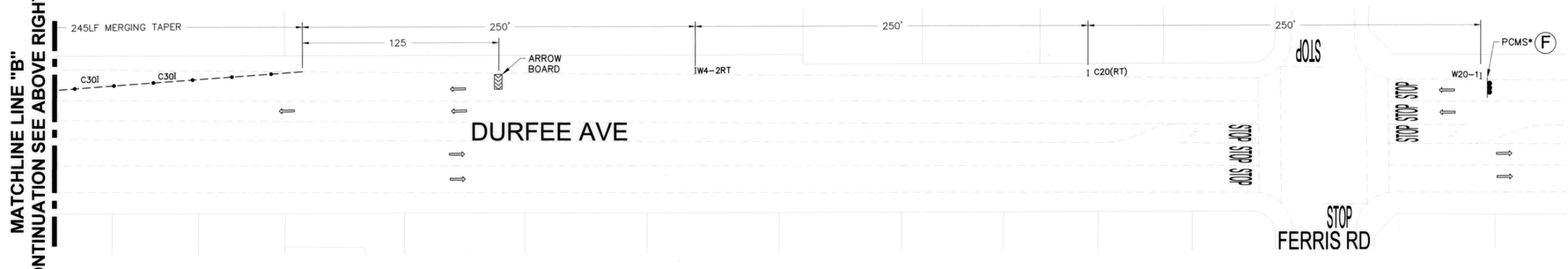
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

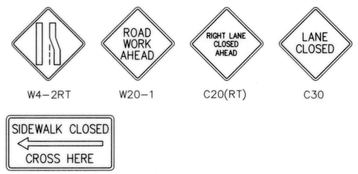
DATE 02/13/2023	DESIGNED BY: SB
	DRAWN BY: MN
SCALE AS SHOWN	CHECKED BY: WY
PLAN NUMBER	C-30
SHEET 30 OF 53	

Drawing Name: c:\12\v12\Dgn_TrafficPlan_Control Phase 1.dwg
Date/Time: Mar 20, 2023 - 10:56am
Plotted By: mgayden





TRAFFIC SIGN LEGEND:



* PORTABLE CHANGEABLE MESSAGE SIGN

1. CONTRACTOR SHALL BE PROGRAM EACH SCREEN OF ALL PORTABLE CHANGEABLE MESSAGE SIGNS TO FLASH AS DIRECTED BELOW UNLESS OTHERWISE NOTED.
2. ALL PCMS SHALL BE PLACE ON STREET SURFACE.

MODIFY TEXT DURING CONSTRUCTION
EACH SCREEN MESSAGE TO DISPLAY FOR 2.0 SECONDS

(F)

SCREEN 1
ROADWORK
AHEAD

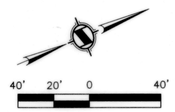
SCREEN 2
EXPECT
DELAYS

TRAFFIC CONTROL LEGEND:

- CONSTRUCTION DELINEATORS (DOUBLE BASE)
- SIGN ON TRAFFIC BARRICADE TYPE II OR III
- CONCRETE BARRICADE
- ARROW BOARD
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- TRAFFIC DIRECTION
- WORK AREA
- EXISTING PAVEMENT MARKING
- (S) INTERSECTION WITH TRAFFIC SIGNAL

NOTE:

1. WORK HOURS 7:00AM TO 7:00PM, MONDAY-FRIDAY NO WORK SHALL BE DONE ON THE WEEKEND
2. SANDBLAST ANY CONFLICTING PAVEMENT MARKING
3. STEEL PLATES ARE REQUIRED AT THE END OF THE WORKING DAY FOR ANY OPEN SECTION OF TRENCH
4. CENTER DELINEATORS THROUGH STRIPING REMOVAL AREA SHALL BE YELLOW. OUTSIDE LANE TRANSITION DELINEATORS SHALL BE ORANGE
5. DELINEATORS OUTSIDE OF STRIPING REMOVAL AREA SHALL BE DRUM TYPE (ORANGE)
6. CONTRACTOR SHALL RESTORE ALL ORIGINAL PAVEMENT MARKING WHEN PROJECT IS COMPLETE
7. ALL PCMS SHALL BE PLACE ON STREET SURFACE



SCALE: 1"= 40'

811 Know what's below. Call before you dig.

REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER WILLIAM F. YOUNG No. C 35715 Exp. 09/30/23 CIVIL STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23 DATE

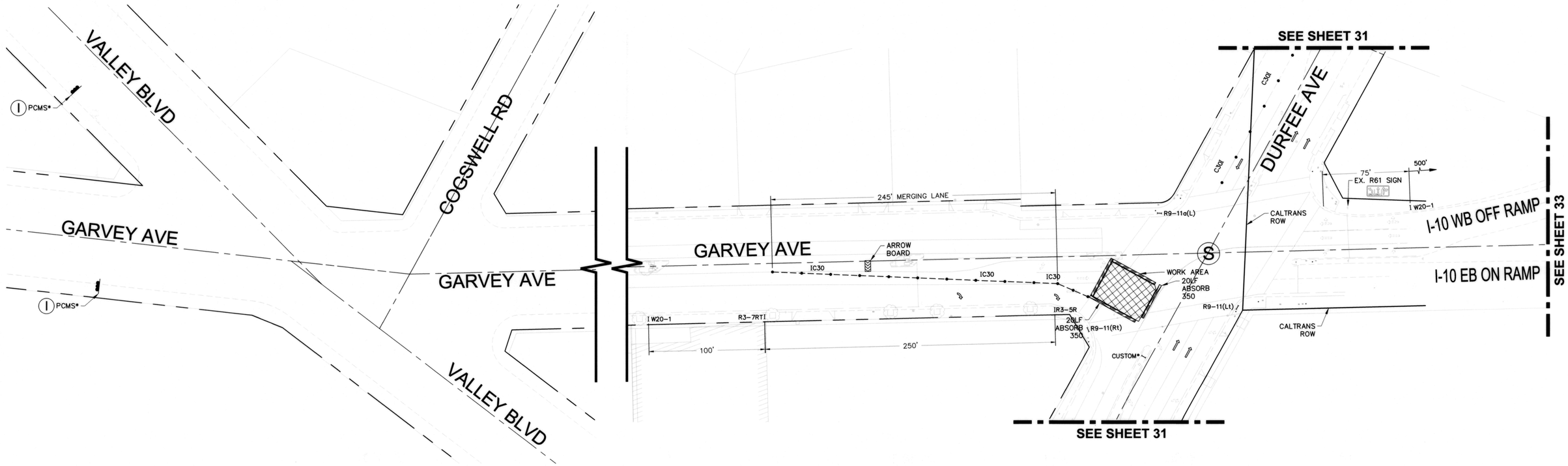
CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

TRAFFIC CONTROL PLAN - PHASE 2

GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
	DRAWN BY: MN
SCALE AS SHOWN	CHECKED BY: WY
PLAN NUMBER	C-31
SHEET 31	OF 53



TRAFFIC SIGN LEGEND:



* PORTABLE CHANGEABLE MESSAGE SIGN

1. CONTRACTOR SHALL BE PROGRAM EACH SCREEN OF ALL PORTABLE CHANGEABLE MESSAGE SIGNS TO FLASH AS DIRECTED BELOW UNLESS OTHERWISE NOTED.
2. ALL PCMS SHALL BE PLACE ON STREET SURFACE.

MODIFY TEXT DURING CONSTRUCTION
EACH SCREEN MESSAGE TO DISPLAY FOR 2.0 SECONDS

(I)

SCREEN 1
GARVEY
AVE
CLOSED

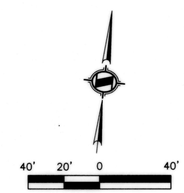
SCREEN 2
AT
DURFEE
AVE

TRAFFIC CONTROL LEGEND:

- CONSTRUCTION DELINEATORS (DOUBLE BASE)
- SIGN ON TRAFFIC BARRICADE TYPE II OR III
- CONCRETE BARRICADE
- ARROW BOARD
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- TRAFFIC DIRECTION
- WORK AREA
- EXISTING PAVEMENT MARKING
- (S) INTERSECTION WITH TRAFFIC SIGNAL

NOTE:

1. WORK HOURS 7:00AM TO 7:00PM, MONDAY–FRIDAY NO WORK SHALL BE DONE ON THE WEEKEND
2. SANDBLAST ANY CONFLICTING PAVEMENT MARKING
3. STEEL PLATES ARE REQUIRED AT THE END OF THE WORKING DAY FOR ANY OPEN SECTION OF TRENCH
4. CENTER DELINEATORS THROUGH STRIPING REMOVAL AREA SHALL BE YELLOW. OUTSIDE LANE TRANSITION DELINEATORS SHALL BE ORANGE
5. DELINEATORS OUTSIDE OF STRIPING REMOVAL AREA SHALL BE DRUM TYPE (ORANGE)
6. CONTRACTOR SHALL RESTORE ALL ORIGINAL PAVEMENT MARKING WHEN PROJECT IS COMPLETE
7. ALL PCMS SHALL BE PLACE ON STREET SURFACE



SCALE: 1"= 40'

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
DATE 4-20-23

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

TRAFFIC CONTROL PLAN - PHASE 2

GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT	CIP No. 884
DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-32
SHEET 32	OF 53

DRAWING NAME: J:\11-JOB\Traffic\Vol2\Work\11412-02-Traffic Control Phase 2.dwg
PLOT DATE: Mar 06, 2023 - 3:11pm
PLOTTED BY: mnguyen



TRAFFIC SIGN LEGEND:

ROAD WORK AHEAD

W20-1

TRAFFIC CONTROL LEGEND:

- CONSTRUCTION DELINEATORS (DOUBLE BASE)
- ARROW BOARD
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) WITH THE MESSAGE ONE WEEK PRIOR TO CONSTRUCTION
- EXISTING TRAFFIC DIRECTION
- EXISTING PAVEMENT MARKER

40' 20' 0 40'

SCALE: 1"= 40'

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER WILLIAM F. YOUNG No. C 35715 Exp. 09/30/23 CIVIL STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

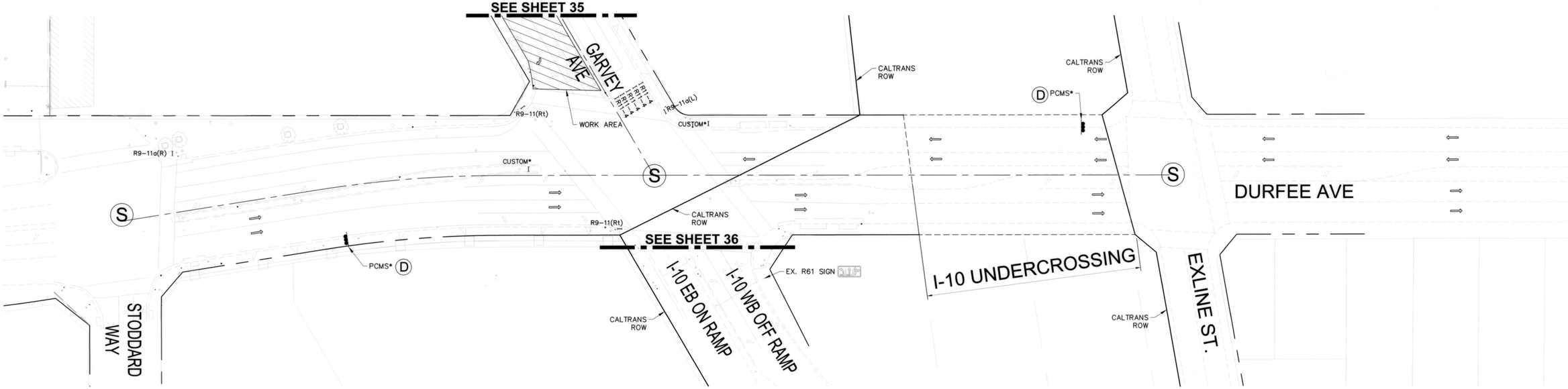
APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
DATE 4-20-23

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
TRAFFIC CONTROL PLAN - PHASE 2
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-33
SHEET 33	OF 53

DRAWING Name: Z:\21-012\05_Design\05.2\21-012-C33-Traffic Control Phase 2.dwg
PLOT DATE: Mon, Feb 06, 2023 - 3:12pm PLOTTED BY: mnguyen



TRAFFIC SIGN LEGEND:

SIDEWALK CLOSED ⇐ CROSS HERE	ROAD CLOSED TO THRU TRAFFIC	GARVEY OPEN FOR LOCAL TRAFFIC
R9-11(Rt,Lt)	R11-4	CUSTOM*

* PORTABLE CHANGEABLE MESSAGE SIGN

1. CONTRACTOR SHALL BE PROGRAM EACH SCREEN OF ALL PORTABLE CHANGEABLE MESSAGE SIGNS TO FLASH AS DIRECTED BELOW UNLESS OTHERWISE NOTED.
2. ALL PCMS SHALL BE PLACE ON STREET SURFACE.

MODIFY TEXT DURING CONSTRUCTION
EACH SCREEN MESSAGE TO DISPLAY FOR 2.0 SECONDS

(D)

SCREEN 1
GARVEY
AVE
CLOSED

SCREEN 2
LOCAL
TRAFFIC
ONLY

TRAFFIC CONTROL LEGEND:

- CONSTRUCTION DELINEATORS (DOUBLE BASE)
- SIGN ON TRAFFIC BARRICADE TYPE II OR III
- CONCRETE BARRICADE
- ARROW BOARD
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- TRAFFIC DIRECTION
- WORK AREA – FULL CLOSURE
- EXISTING PAVEMENT MARKING
- (S) INTERSECTION WITH TRAFFIC SIGNAL
- WORK AREA – LOCAL ACCESS ALLOWED

NOTE:

1. WORK HOURS 7:00AM TO 7:00PM, MONDAY–FRIDAY NO WORK SHALL BE DONE ON THE WEEKEND
2. SANDBLAST ANY CONFLICTING PAVEMENT MARKING
3. STEEL PLATES ARE REQUIRED AT THE END OF THE WORKING DAY FOR ANY OPEN SECTION OF TRENCH
4. CENTER DELINEATORS THROUGH STRIPING REMOVAL AREA SHALL BE YELLOW. OUTSIDE LANE TRANSITION DELINEATORS SHALL BE ORANGE
5. DELINEATORS OUTSIDE OF STRIPING REMOVAL AREA SHALL BE DRUM TYPE (ORANGE)
6. CONTRACTOR SHALL RESTORE ALL ORIGINAL PAVEMENT MARKING WHEN PROJECT IS COMPLETE
7. ALL PCMS SHALL BE PLACE ON STREET SURFACE

40' 20' 0 40'

SCALE: 1"= 40'

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER WILLIAM F. YOUNG No. C 35715 Exp. 09/30/23 CIVIL STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

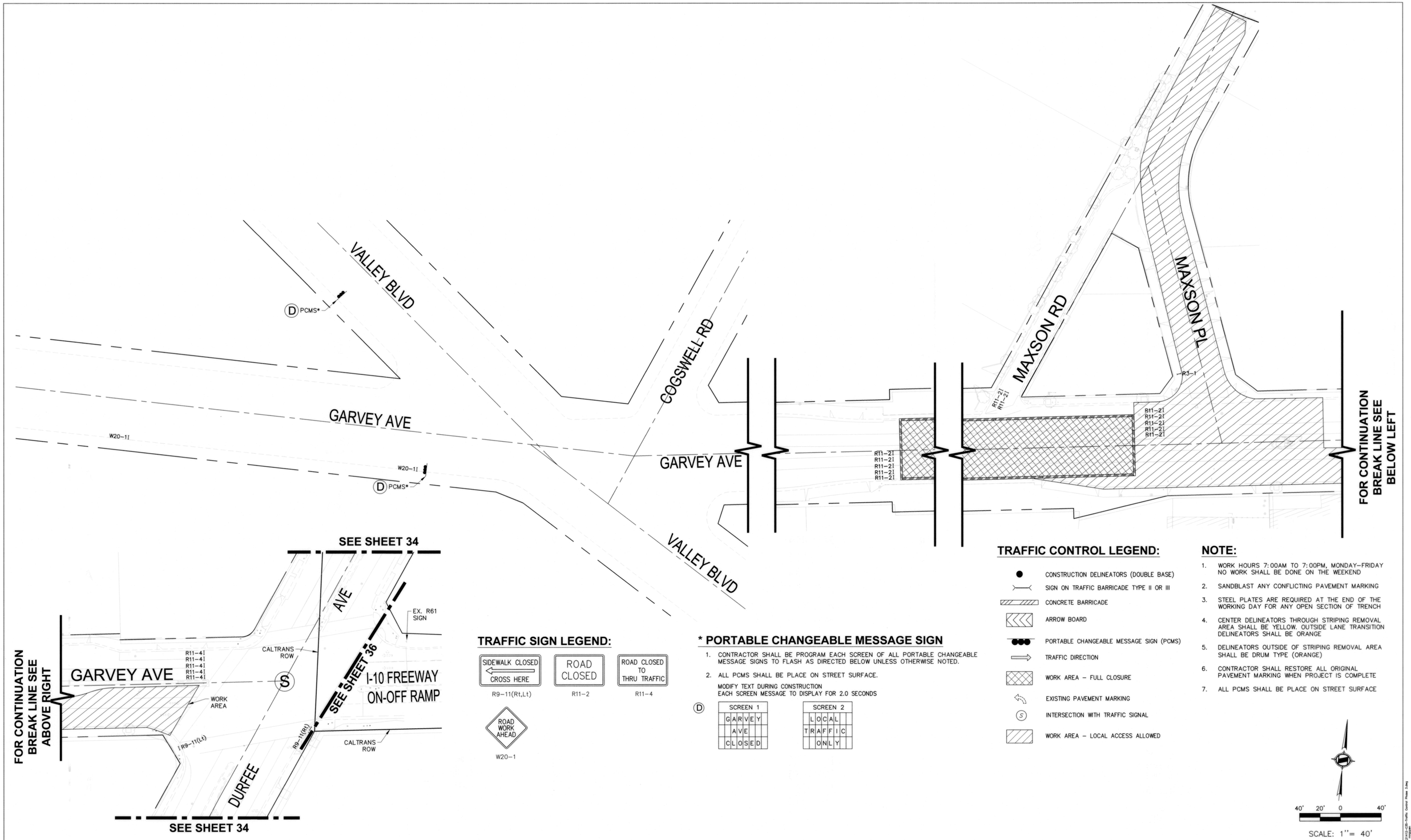
APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
DATE 4-2023

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
TRAFFIC CONTROL PLAN - PHASE 3
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE	DESIGNED BY:
02/13/2023	SB
SCALE	DRAWN BY:
AS SHOWN	MN
	CHECKED BY:
	WY
PLAN NUMBER	C-34
SHEET 34 OF 53	

DRAWING NAME: J:\2141\02\Graphics\Drawings\2141-02-Traffic Control Phase 3.dwg
LAST SAVED BY: Mai Tran 2/13/2023 1:39pm
PLOTTED BY: Mai Tran 2/13/2023 1:39pm



TRAFFIC SIGN LEGEND:

SIDEWALK CLOSED CROSS HERE	ROAD CLOSED	ROAD CLOSED TO THRU TRAFFIC
R9-11(Rt,Lt)	R11-2	R11-4

ROAD WORK AHEAD
W20-1

* PORTABLE CHANGEABLE MESSAGE SIGN

1. CONTRACTOR SHALL BE PROGRAM EACH SCREEN OF ALL PORTABLE CHANGEABLE MESSAGE SIGNS TO FLASH AS DIRECTED BELOW UNLESS OTHERWISE NOTED.
2. ALL PCMS SHALL BE PLACE ON STREET SURFACE.

MODIFY TEXT DURING CONSTRUCTION
EACH SCREEN MESSAGE TO DISPLAY FOR 2.0 SECONDS

D

SCREEN 1
GARVEY
AVE
CLOSED

SCREEN 2
LOCAL
TRAFFIC
ONLY

TRAFFIC CONTROL LEGEND:

- CONSTRUCTION DELINEATORS (DOUBLE BASE)
- SIGN ON TRAFFIC BARRICADE TYPE II OR III
- CONCRETE BARRICADE
- ARROW BOARD
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- TRAFFIC DIRECTION
- WORK AREA – FULL CLOSURE
- EXISTING PAVEMENT MARKING
- (S) INTERSECTION WITH TRAFFIC SIGNAL
- WORK AREA – LOCAL ACCESS ALLOWED

NOTE:

1. WORK HOURS 7:00AM TO 7:00PM, MONDAY–FRIDAY NO WORK SHALL BE DONE ON THE WEEKEND
2. SANDBLAST ANY CONFLICTING PAVEMENT MARKING
3. STEEL PLATES ARE REQUIRED AT THE END OF THE WORKING DAY FOR ANY OPEN SECTION OF TRENCH
4. CENTER DELINEATORS THROUGH STRIPING REMOVAL AREA SHALL BE YELLOW. OUTSIDE LANE TRANSITION DELINEATORS SHALL BE ORANGE
5. DELINEATORS OUTSIDE OF STRIPING REMOVAL AREA SHALL BE DRUM TYPE (ORANGE)
6. CONTRACTOR SHALL RESTORE ALL ORIGINAL PAVEMENT MARKING WHEN PROJECT IS COMPLETE
7. ALL PCMS SHALL BE PLACE ON STREET SURFACE

40' 20' 0 40'

SCALE: 1"= 40'

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
DATE 4-20-23

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

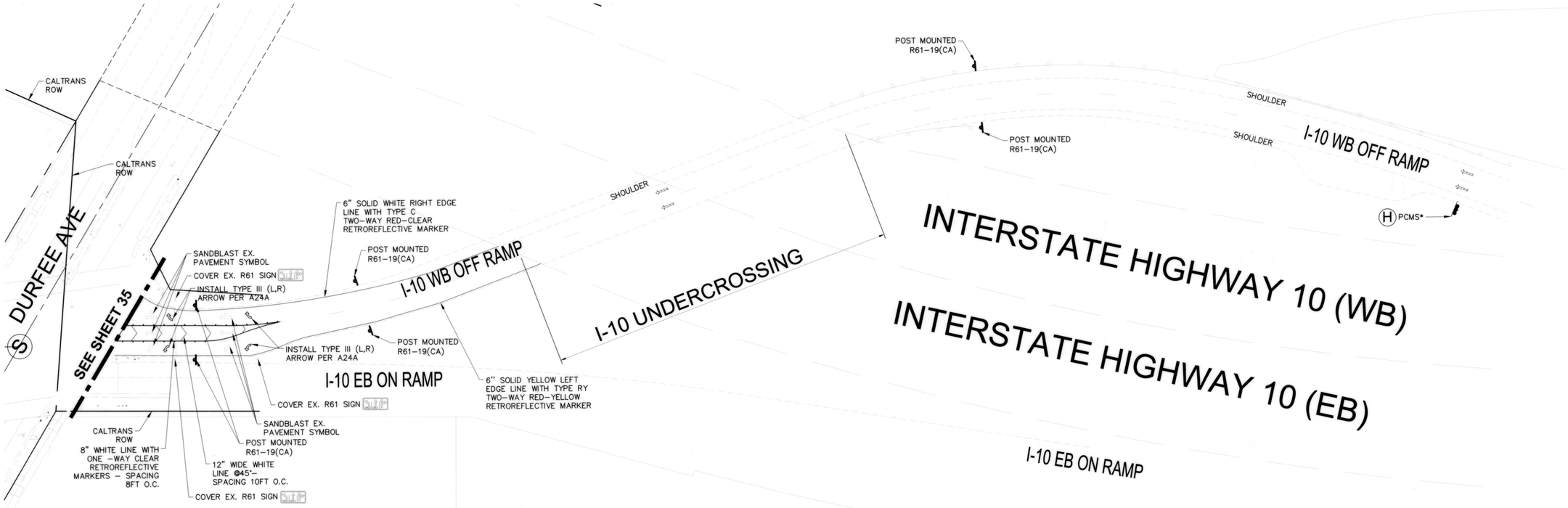
TRAFFIC CONTROL PLAN - PHASE 3

GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

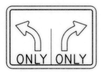
CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
	DRAWN BY: MN
SCALE AS SHOWN	CHECKED BY: WY
PLAN NUMBER	C-35
SHEET 35 OF 53	

DRAWING NAME: C:\21-1112\Traffic Control Phase 3.dwg
PLOT DATE: Mar 06, 2023 - 8:53am
PLOTTED BY: mingyan



TRAFFIC SIGN LEGEND:



R61-19(CA)

* PORTABLE CHANGEABLE MESSAGE SIGN

1. CONTRACTOR SHALL BE PROGRAM EACH SCREEN OF ALL PORTABLE CHANGEABLE MESSAGE SIGNS TO FLASH AS DIRECTED BELOW UNLESS OTHERWISE NOTED.
2. ALL PCMS SHALL BE PLACE ON STREET SURFACE.

MODIFY TEXT DURING CONSTRUCTION
EACH SCREEN MESSAGE TO DISPLAY FOR 2.0 SECONDS

Ⓗ

SCREEN 1
GARVEY
CLOSED
AHEAD

SCREEN 2
USE
DURFEE
AVENUE

TRAFFIC CONTROL LEGEND:

- ARROW BOARD
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) WITH THE MESSAGE ONE WEEK PRIOR TO CONSTRUCTION
- EXISTING TRAFFIC DIRECTION
- EXISTING PAVEMENT MARKER

NOTE:

1. SANDBLAST ANY CONFLICTED PAVEMENT MARKER
2. CONTRACTOR SHALL RESTORE THE STRIPING ON I10-WESTBOUND OFF RAMP UPON THE COMPLETION OF THE PROJECT

40' 20' 0 40'

SCALE: 1"= 40'

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER WILLIAM F. YOUNG No. C 35715 Exp. 09/30/23 CIVIL STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23 DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

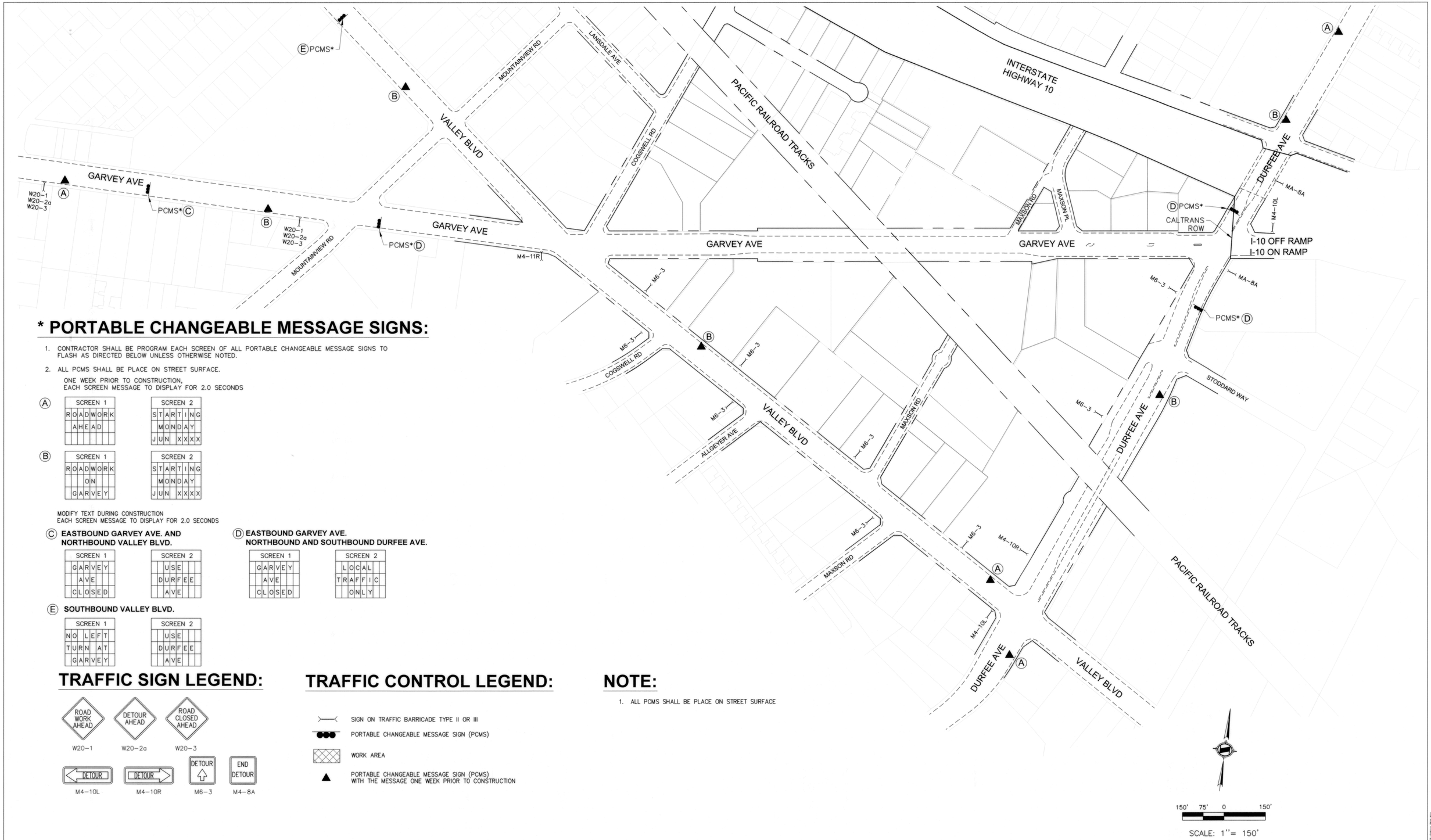
TRAFFIC CONTROL PLAN - PHASE 3

GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-36
SHEET 36 OF 53	

DRAWING NAME: J:\2121\Z03_Design\03_Design\2121_C36-I10 Off Ramp-Widening Phase 3.dwg
PLOT DATE: Apr 04, 2023 - 9:13am PLOTTED BY: mngyen



* PORTABLE CHANGEABLE MESSAGE SIGNS:

1. CONTRACTOR SHALL BE PROGRAM EACH SCREEN OF ALL PORTABLE CHANGEABLE MESSAGE SIGNS TO FLASH AS DIRECTED BELOW UNLESS OTHERWISE NOTED.
2. ALL PCMS SHALL BE PLACE ON STREET SURFACE.

ONE WEEK PRIOR TO CONSTRUCTION,
EACH SCREEN MESSAGE TO DISPLAY FOR 2.0 SECONDS

(A)

SCREEN 1
ROADWORK
AHEAD

SCREEN 2
STARTING
MONDAY
JUN XXXX

(B)

SCREEN 1
ROADWORK
ON
GARVEY

SCREEN 2
STARTING
MONDAY
JUN XXXX

MODIFY TEXT DURING CONSTRUCTION
EACH SCREEN MESSAGE TO DISPLAY FOR 2.0 SECONDS

(C) EASTBOUND GARVEY AVE. AND NORTHBOUND VALLEY BLVD.

SCREEN 1
GARVEY
AVE
CLOSED

SCREEN 2
USE
DURFEE
AVE

(D) EASTBOUND GARVEY AVE. NORTHBOUND AND SOUTHBOUND DURFEE AVE.

SCREEN 1
GARVEY
AVE
CLOSED

SCREEN 2
LOCAL
TRAFFIC
ONLY

(E) SOUTHBOUND VALLEY BLVD.

SCREEN 1
NO LEFT
TURN AT
GARVEY

SCREEN 2
USE
DURFEE
AVE

TRAFFIC SIGN LEGEND:

TRAFFIC CONTROL LEGEND:

- SIGN ON TRAFFIC BARRICADE TYPE II OR III
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- WORK AREA
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) WITH THE MESSAGE ONE WEEK PRIOR TO CONSTRUCTION

NOTE:

1. ALL PCMS SHALL BE PLACE ON STREET SURFACE

SCALE: 1"= 150'

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23
DATE

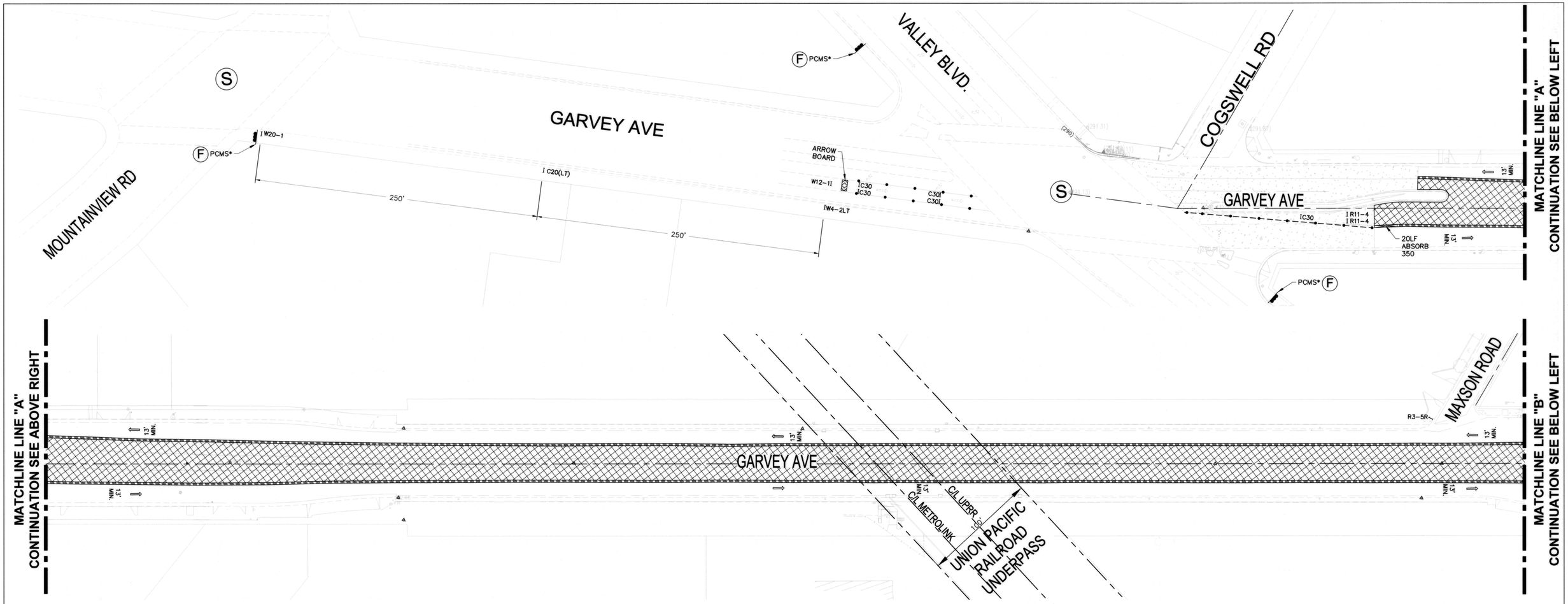
CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

DETOUR PLAN

GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-37
SHEET 37 OF 53	



TRAFFIC SIGN LEGEND:



TRAFFIC CONTROL LEGEND:

- CONSTRUCTION DELINEATORS (DOUBLE BASE)
- SIGN ON TRAFFIC BARRICADE TYPE II OR III
- CONCRETE BARRICADE
- ARROW BOARD
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- TRAFFIC DIRECTION
- WORK AREA
- EXISTING PAVEMENT MARKING
- (S) INTERSECTION WITH TRAFFIC SIGNAL

* PORTABLE CHANGEABLE MESSAGE SIGN

MODIFY TEXT DURING CONSTRUCTION
EACH SCREEN MESSAGE TO DISPLAY FOR 2.0 SECONDS

(F)

SCREEN 1
ROADWORK
AHEAD

SCREEN 2
EXPECT
DELAYS

NOTE:

1. WORK HOURS 7:00AM TO 7:00PM, MONDAY–FRIDAY
   NO WORK SHALL BE DONE ON THE WEEKEND
2. SANDBLAST ANY CONFLICTING PAVEMENT MARKING
3. STEEL PLATES ARE REQUIRED AT THE END OF THE WORKING DAY FOR ANY OPEN SECTION OF TRENCH
4. CENTER DELINEATORS THROUGH STRIPING REMOVAL AREA SHALL BE YELLOW. OUTSIDE LANE TRANSITION DELINEATORS SHALL BE ORANGE
5. DELINEATORS OUTSIDE OF STRIPING REMOVAL AREA SHALL BE DRUM TYPE (ORANGE)
6. CONTRACTOR SHALL RESTORE ALL ORIGINAL PAVEMENT MARKING WHEN PROJECT IS COMPLETE

40' 20' 0 40'

SCALE: 1"= 40'

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com
UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG
02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23
DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

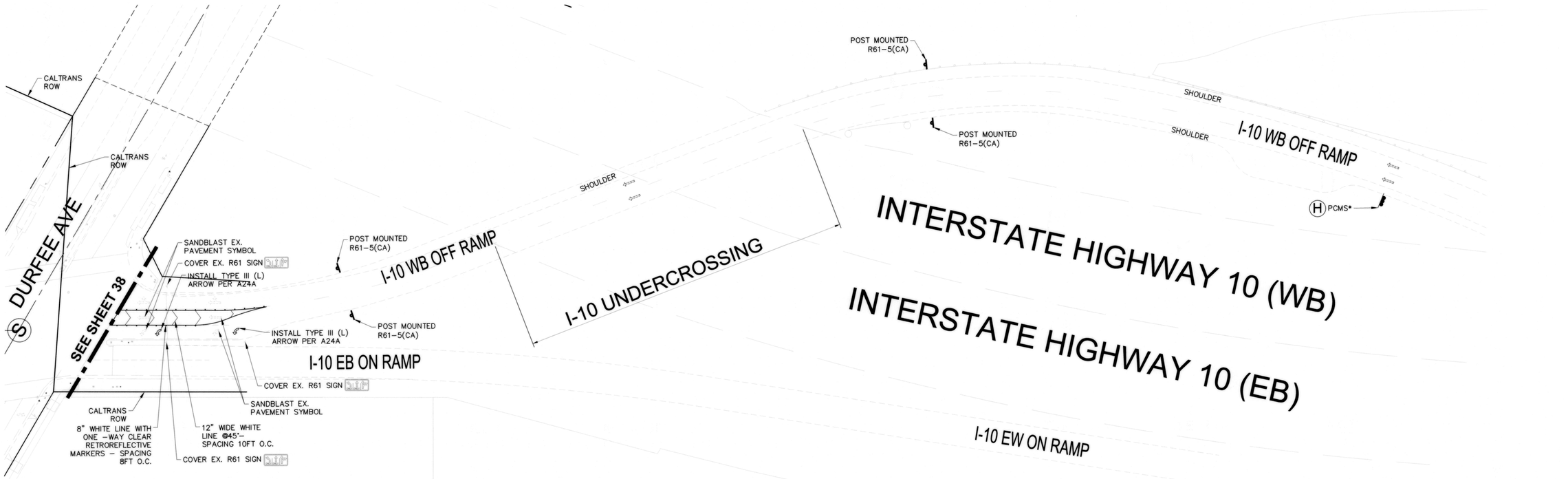
TRAFFIC CONTROL PLAN - PHASE 4

GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

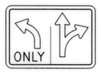
CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
	DRAWN BY: MN
SCALE AS SHOWN	CHECKED BY: WY
PLAN NUMBER	C-38
SHEET 38 OF 53	

DRAWING NAME: Z:\LAYOUT\...\Sheet\01 Garvey Ave - Phase 1.dwg
PLOT DATE: Mar 06, 2023 - 3:11pm
PLOTTED BY: mnguyen



TRAFFIC SIGN LEGEND:



R61-5(CA)

* PORTABLE CHANGEABLE MESSAGE SIGN

1. CONTRACTOR SHALL BE PROGRAM EACH SCREEN OF ALL PORTABLE CHANGEABLE MESSAGE SIGNS TO FLASH AS DIRECTED BELOW UNLESS OTHERWISE NOTED.
2. ALL PCMS SHALL BE PLACE ON STREET SURFACE.

MODIFY TEXT DURING CONSTRUCTION
EACH SCREEN MESSAGE TO DISPLAY FOR 2.0 SECONDS

(H)

SCREEN 1
ROADWORK
AHEAD

SCREEN 2
EXPECT
DELAYS

TRAFFIC CONTROL LEGEND:

- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- EXISTING TRAFFIC DIRECTION
- EXISTING PAVEMENT MARKER

NOTE:

1. SANDBLAST ANY CONFLICTED PAVEMENT MARKER
2. CONTRACTOR SHALL RESTORE THE STRIPING ON I10-WESTBOUND OFF RAMP UPON THE COMPLETION OF THE PROJECT

40' 20' 0 40'

SCALE: 1"= 40'

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER WILLIAM F. YOUNG No. C 35715 Exp. 09/30/23 CIVIL STATE OF CALIFORNIA

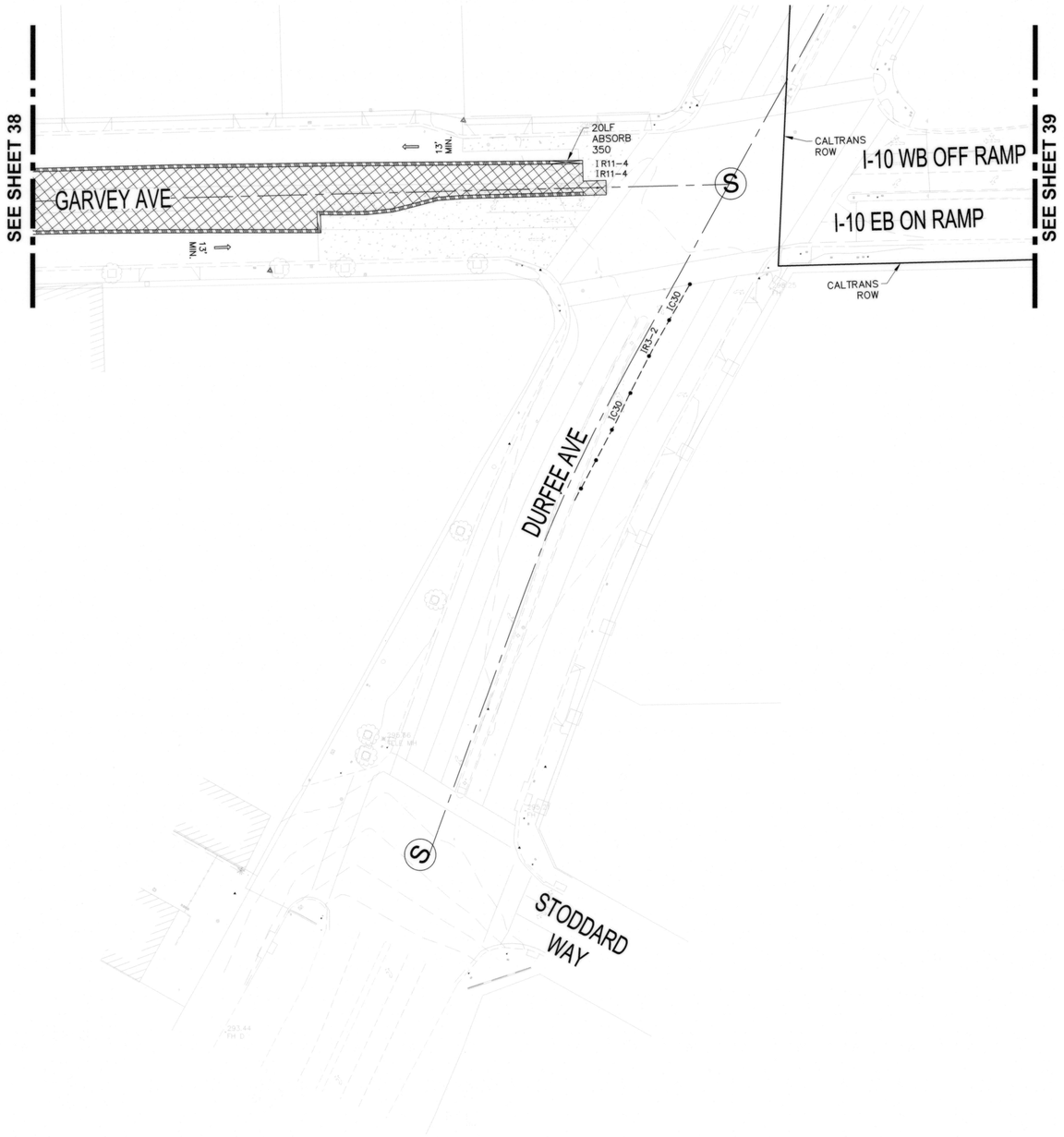
CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
DATE 4-20-23

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
TRAFFIC CONTROL PLAN - PHASE 4
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
	DRAWN BY: MN
SCALE AS SHOWN	CHECKED BY: WY
PLAN NUMBER	C-39
SHEET 39 OF 53	



TRAFFIC CONTROL LEGEND:

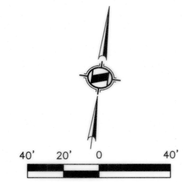
- CONSTRUCTION DELINEATORS (DOUBLE BASE)
- SIGN ON TRAFFIC BARRICADE TYPE II OR III
- CONCRETE BARRICADE
- ARROW BOARD
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- TRAFFIC DIRECTION
- WORK AREA
- EXISTING PAVEMENT MARKING
- (S) INTERSECTION WITH TRAFFIC SIGNAL

NOTE:

1. WORK HOURS 7:00AM TO 7:00PM, MONDAY-FRIDAY NO WORK SHALL BE DONE ON THE WEEKEND
2. SANDBLAST ANY CONFLICTING PAVEMENT MARKING
3. STEEL PLATES ARE REQUIRED AT THE END OF THE WORKING DAY FOR ANY OPEN SECTION OF TRENCH
4. CENTER DELINEATORS THROUGH STRIPING REMOVAL AREA SHALL BE YELLOW. OUTSIDE LANE TRANSITION DELINEATORS SHALL BE ORANGE
5. DELINEATORS OUTSIDE OF STRIPING REMOVAL AREA SHALL BE DRUM TYPE (ORANGE)
6. CONTRACTOR SHALL RESTORE ALL ORIGINAL PAVEMENT MARKING WHEN PROJECT IS COMPLETE

TRAFFIC SIGN LEGEND:





SCALE: 1"= 40'

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER WILLIAM F. YOUNG No. C 35715 Exp. 09/30/23 CIVIL STATE OF CALIFORNIA

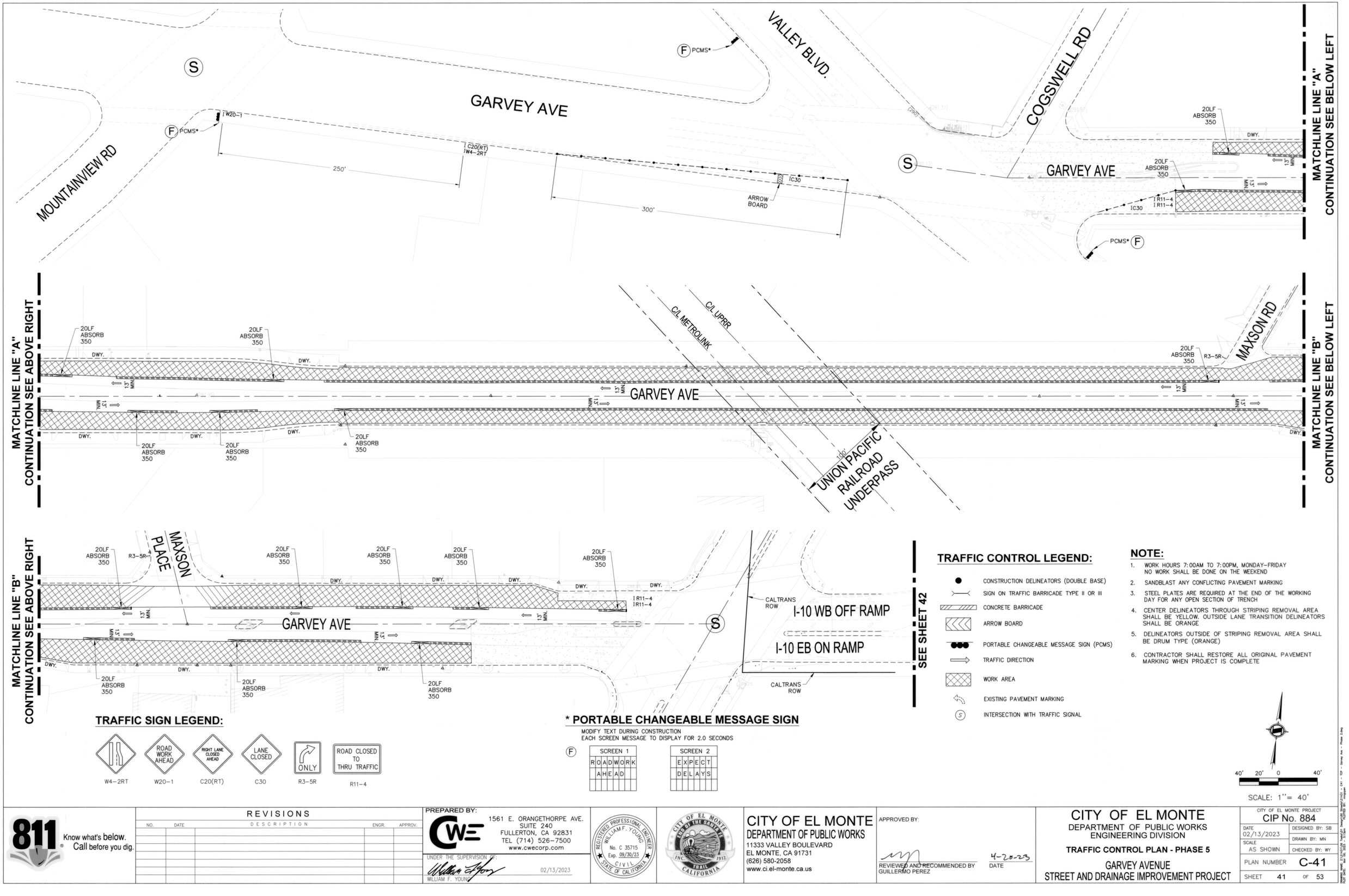
CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23 DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
TRAFFIC CONTROL PLAN - PHASE 4
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER C-40	
SHEET 40 OF 53	



TRAFFIC SIGN LEGEND:

* PORTABLE CHANGEABLE MESSAGE SIGN

MODIFY TEXT DURING CONSTRUCTION
EACH SCREEN MESSAGE TO DISPLAY FOR 2.0 SECONDS

F	SCREEN 1
	ROADWORK
	AHEAD

SCREEN 2
EXPECT
DELAYS

TRAFFIC CONTROL LEGEND:

- CONSTRUCTION DELINEATORS (DOUBLE BASE)
- SIGN ON TRAFFIC BARRICADE TYPE II OR III
- CONCRETE BARRICADE
- ARROW BOARD
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- TRAFFIC DIRECTION
- WORK AREA
- EXISTING PAVEMENT MARKING
- (S) INTERSECTION WITH TRAFFIC SIGNAL

NOTE:

1. WORK HOURS 7:00AM TO 7:00PM, MONDAY–FRIDAY
   NO WORK SHALL BE DONE ON THE WEEKEND
2. SANDBLAST ANY CONFLICTING PAVEMENT MARKING
3. STEEL PLATES ARE REQUIRED AT THE END OF THE WORKING DAY FOR ANY OPEN SECTION OF TRENCH
4. CENTER DELINEATORS THROUGH STRIPING REMOVAL AREA SHALL BE YELLOW. OUTSIDE LANE TRANSITION DELINEATORS SHALL BE ORANGE
5. DELINEATORS OUTSIDE OF STRIPING REMOVAL AREA SHALL BE DRUM TYPE (ORANGE)
6. CONTRACTOR SHALL RESTORE ALL ORIGINAL PAVEMENT MARKING WHEN PROJECT IS COMPLETE

40' 20' 0 40'

SCALE: 1"= 40'

811 Know what's below. Call before you dig.

REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER — WILLIAM F. YOUNG — No. C 35715 — Exp. 09/30/23 — CIVIL — STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

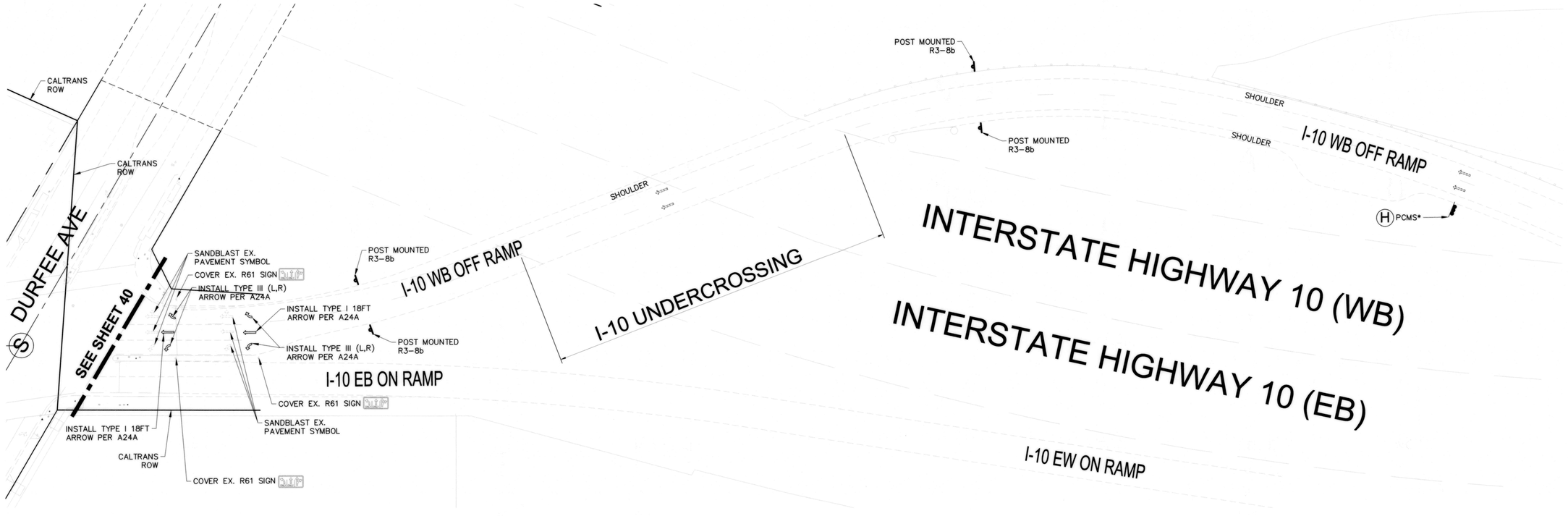
APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23 DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
TRAFFIC CONTROL PLAN - PHASE 5
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

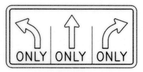
CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-41
SHEET 41 OF 53	

DRAWING NAME: J:\CAD\CUR Trans\Vol1 Drwgs\CAD\41 - C41 - TCP - Garvey Ave. - Phase 5.dwg
PLOT DATE: Mar 06, 2023 - 3:53pm PLOTTED BY: mnguyen



TRAFFIC SIGN LEGEND:



R3-8b

* PORTABLE CHANGEABLE MESSAGE SIGN

1. CONTRACTOR SHALL BE PROGRAM EACH SCREEN OF ALL PORTABLE CHANGEABLE MESSAGE SIGNS TO FLASH AS DIRECTED BELOW UNLESS OTHERWISE NOTED.
2. ALL PCMS SHALL BE PLACE ON STREET SURFACE.

MODIFY TEXT DURING CONSTRUCTION
EACH SCREEN MESSAGE TO DISPLAY FOR 2.0 SECONDS

Ⓗ

SCREEN 1
ROADWORK
AHEAD

SCREEN 2
EXPECT
DELAYS

TRAFFIC CONTROL LEGEND:

- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- EXISTING TRAFFIC DIRECTION
- EXISTING PAVEMENT MARKER

NOTE:

1. SANDBLAST ANY CONFLICTED PAVEMENT MARKER
2. CONTRACTOR SHALL RESTORE THE STRIPING ON I10-WESTBOUND OFF RAMP UPON THE COMPLETION OF THE PROJECT

40' 20' 0 40'

SCALE: 1"= 40'

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
DATE 4-20-23

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
TRAFFIC CONTROL PLAN - PHASE 5
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
	DRAWN BY: MN
SCALE AS SHOWN	CHECKED BY: WY
PLAN NUMBER	C-42
SHEET 42 OF 53	

STORMWATER POLLUTION PREVENTION PROGRAM (SWPPP) REQUIREMENTS FOR ROAD CONSTRUCTION:

1. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON THE CONSTRUCTION SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, OR WIND.
2. STOCKPILES OF EARTH AND OTHER CONSTRUCTION–RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND AND WATER.
3. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
4. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
5. TRASH AND CONSTRUCTION–RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
6. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR BY ANY OTHER MEANS.
7. THE FOLLOWING BMPS AS OUTLINED IN, BUT NOT LIMITED TO, THE BEST MANAGEMENT PRACTICE HANDBOOK, CALIFORNIA STORMWATER QUALITY TASK FORCE, SACRAMENTO, CALIFORNIA 2003, OR THE LATEST REVISED EDITION, MAY APPLY DURING CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY INSPECTOR).

EROSION AND SEDIMENT CONTROL NOTES:

SEDIMENTS FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON–SITE USING AN EFFECTIVE COMBINATION OF EROSION AND SEDIMENT CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE, AND STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING, OR WIND.

WASTE AND MATERIALS MANAGEMENT CONTROL NOTES:

APPROPRIATE BEST MANAGEMENT PRACTICES (BMPS) FOR CONSTRUCTION–RELATED MATERIALS, WASTES, SPILLS OR RESIDUES SHALL BE IMPLEMENTED AND RETAINED ON–SITE TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTY BY WIND OR RUNOFF.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) NOTES:

IN THE CASE OF EMERGENCY, CALL:

AT WORK PHONE #

AT HOME PHONE #

SEDIMENT FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON–SITE USING STRUCTURAL CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE.

STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING, OR WIND.

APPROPRIATE BMPS FOR CONSTRUCTION–RELATED MATERIALS, WASTES, SPILLS, OR RESIDUES SHALL BE IMPLEMENTED TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTIES BY WIND OR RUNOFF.

RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED AT CONSTRUCTION SITES. UNLESS TREATED, TO REDUCE OR REMOVE SEDIMENT AND OTHER POLLUTANTS.

ALL CONSTRUCTION CONTRACTOR AND SUBCONTRACTOR PERSONNEL ARE TO BE MADE AWARE OF THE REQUIRED BEST MANAGEMENT PRACTICES AND GOOD HOUSEKEEPING MEASURES FOR THE PROJECT SITE AND ANY ASSOCIATED CONSTRUCTION STAGING AREAS.

AT THE END OF EACH DAY OF CONSTRUCTION ACTIVITY ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND PROPERLY DISPOSED IN TRASH OR RECYCLE BINS.

CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT AN ANTICIPATED STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE. DISCHARGES OF MATERIAL OTHER THAN STORMWATER ONLY WHEN NECESSARY FOR PERFORMANCE AND COMPLETION OF CONSTRUCTION PRACTICES AND WHERE THEY DO NOT: CAUSE OR CONTRIBUTE TO A VIOLATION OF ANY WATER QUALITY STANDARD; CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR NUISANCE; OR CONTAIN A HAZARDOUS SUBSTANCE IN A QUANTITY REPORTABLE UNDER FEDERAL REGULATIONS 40 CFR PARTS 117 AND 302.

POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, GLUES, LIMES, PESTICIDES, HERBICIDES, WOOD PRESERVATIVES AND SOLVENTS; ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS, AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS; FERTILIZERS, VEHICLE/EQUIPMENT WASH WATER AND CONCRETE WASH WATER; CONCRETE, DETERGENT OR FLOATABLE WASTES; WASTES FROM ANY ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING AND SUPERCHLORINATED POTABLE WATER LINE FLUSHING.

DURING CONSTRUCTION, PERMITTEE SHALL DISPOSE OF SUCH MATERIALS IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON–SITE, PHYSICALLY SEPARATED FROM POTENTIAL STORMWATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.

DEWATERING OF CONTAMINATED GROUNDWATER, OR DISCHARGING CONTAMINATED SOILS VIA SURFACE EROSION IS PROHIBITED. DEWATERING OF NON–CONTAMINATED GROUNDWATER REQUIRES A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT FROM THE RESPECTIVE STATE REGION WATER QUALITY CONTROL BOARD.

GRADED AREAS ON THE PERMITTED AREA PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY. DRAINAGE IS TO BE DIRECTED TOWARD DESILTING FACILITIES.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) NOTES:

THE PERMITTEE AND CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.

THE PERMITTEE AND CONTRACTOR SHALL INSPECT THE EROSION CONTROL WORK AND INSURE THAT THE WORK IS IN ACCORDANCE WITH THE APPROVED PLANS.

THE PERMITTEE SHALL NOTIFY ALL GENERAL CONTRACTORS, SUBCONTRACTORS, MATERIAL SUPPLIERS, LESSEES, AND PROPERTY OWNERS: THAT DUMPING OF CHEMICALS INTO THE STORM DRAIN SYSTEM OR THE WATERSHED IS PROHIBITED.

EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON–SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.

ALL REMOVABLE EROSION PROTECTIVE DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5–DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.

SEDIMENTS FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON–SITE USING AN EFFECTIVE COMBINATION OF EROSION AND SEDIMENT CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE, AND STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING, OR WIND.

APPROPRIATE BMPS FOR CONSTRUCTION–RELATED MATERIALS, WASTES, SPILLS, OR RESIDUES SHALL BE IMPLEMENTED AND RETAINED ON–SITE TO MINIMIZE TRANSPORT FROM THE SITES TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTY BY WIND OR RUNOFF.

AS THE PROJECT OWNER OR AUTHORIZED AGENT OF THE OWNER, I HAVE READ AND UNDERSTAND THE REQUIREMENT TO CONTROL STORM WATER POLLUTION FROM SEDIMENTS, EROSION, AND CONSTRUCTION MATERIALS, AND I CERTIFY THAT I WILL COMPLY WITH THESE REQUIREMENTS, I, OR MY REPRESENTATIVE, CONTRACTOR, DEVELOPER, OR ENGINEER WILL MAKE CERTAIN THAT ALL BMPs SHOWN ON THIS PLAN WILL BE FULLY IMPLEMENTED, AND ALL EROSION CONTROL DEVICES WILL BE KEPT CLEAN AND FUNCTIONING. PERIODIC INSPECTION OF THE BMPs WILL BE CONDUCTED AND A CURRENT LOG, SPECIFYING THE EXACT NATURE OF THE INSPECTION AND ANY REMEDIAL MEASURES, WILL BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES AND WILL BE AVAILABLE FOR THE REVIEW BY THE APPROPRIATE OFFICIAL(S).

AS THE PROJECT OWNER OR AUTHORIZED AGENT OF OWNER, "I CERTIFY THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASE ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE INFORMATION SUBMITTED IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT SUBMITTING FALSE AND/OR INACCURATE INFORMATION, FAILING TO UPDATE THE SWPPP TO REFLECT CURRENT CONDITIONS, OR FAILING TO PROPERLY AND/OR ADEQUATELY IMPLEMENT THE EROSION CONTROL PLAN MAY RESULT IN REVOCATION OF GRADING AND/OR OTHER PERMITS OR OTHER SANCTION PROVIDED BY LAW."

PROJECT MANAGER: _____ DATE: _____

STORMWATER POLLUTION PREVENTION PROGRAM (SWPPP) BEST MANAGEMENT PRACTICES (BMP'S) BMP HANDBOOK, CASW QUALITY TASK FORCE 2003:

TEMPORARY SOIL STABILIZATION
- SS9 – EARTH DIKES / DRAINAGE SWALES

TEMPORARY SEDIMENT CONTROL
- SC1 – SILT FENCE
- SC2 – SEDIMENT / DESILTING BASIN
- SC3 – SEDIMENT TRAP
- SC4 – CHECK DAM
- SC5 – FIBER ROLLS
- SC6 – GRAVEL BAG BERM
- SC7 – STREET SWEEPING AND VACUUMING
- SC8 – SANDBAG BARRIER
- SC10 – STORM DRAIN INLET PROTECTION

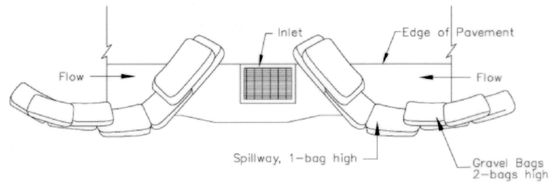
NON–STORMWATER MANAGEMENT
- NS3 – PAVING GRINDING OPERATIONS
- NS7 – POTABLE WATER / IRRIGATION
- NS8 – VEHICLE AND EQUIPMENT CLEANING
- NS9 – VEHICLE AND EQUIPMENT FUELING
- NS10 – VEHICLE AND EQUIPMENT MAINTENANCE
- NS12 – CONCRETE CURING
- NS13 – MATERIAL AND EQUIPMENT USE OVER WATER
- NS14 – CONCRETE FINISHING

WIND EROSION CONTROL
- WE1 – WIND EROSION CONTROL

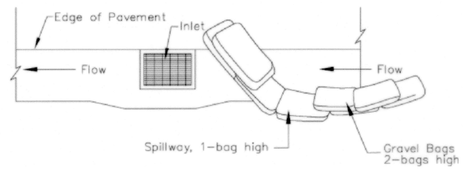
TRACKING CONTROL
- TC1 – STABILIZED CONSTRUCTION ENTRANCE / EXIT
- TC2 – STABILIZED CONSTRUCTION ROADWAY
- TC3 – ENTRANCE / OUTLET TIRE WASH

WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL
- WM1 – MATERIAL DELIVERY AND STORAGE
- WM2 – MATERIAL USE
- WM3 – STOCKPILE MANAGEMENT
- WM4 – SPILL PREVENTION AND CONTROL
- WM6 – HAZARDOUS WASTE MANAGEMENT
- WM7 – CONTAMINATED SOIL MANAGEMENT
- WM8 – CONCRETE WASTE MANAGEMENT

Storm Drain Inlet Protection SC-10

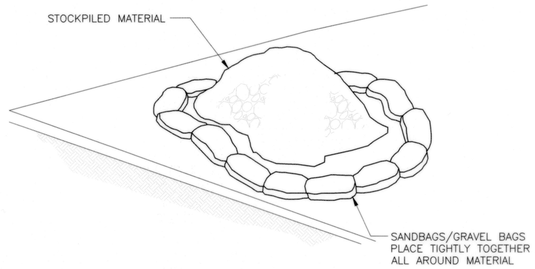


TYPICAL PROTECTION FOR INLET WITH OPOSSING FLOW DIRECTIONS



TYPICAL PROTECTION FOR INLET WITH SINGLE FLOW DIRECTION

NOTES:
1. Intended for short–term use.
2. Use to inhibit non–storm water flow.
3. Allow for proper maintenance and cleanup.
4. Bags must be removed after adjacent operation is completed
5. Not applicable in areas with high silts and clays without filter fabric.



WM-3 STOCKPILE MANAGEMENT

NOTES:

1. SEDIMENTS AND OTHER MATERIALS SHALL BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC, THE CONSTRUCTION ENTRANCE ROADWAYS SHALL BE STABILIZED SO AS TO PREVENT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC ROADS. DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS INTO THE STORM DRAIN SYSTEM.
2. STABILIZED CONSTRUCTION ENTRANCE SHALL BE:

A. LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE ROAD OR FROM A PUBLIC RIGHT OF WAY, STREET, ALLEY, AND SIDEWALK OR PARKING AREA.

B. A SERIES OF STEEL PLATES WITH "RUMBLE STRIPS", AND/OR MIN 4" COARSE AGGREGATE WITH LENGTH, WIDTH, & THICKNESS AS NEEDED TO ADEQUATELY PREVENT ANY TRACKING ONTO PAVED SURFACES.

3. ADDING A WASH RACK WITH A SEDIMENT TRAP LARGE ENOUGH TO COLLECT ALL WASH WATER CAN GREATLY IMPROVE EFFICIENCY.
4. ALL VEHICLES ACCESSING THE CONSTRUCTION SITE SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE SITES.

MATERIAL STORAGE:

1. DIRT AND OTHER CONSTRUCTION RELATED MATERIALS PLACED IN THE STREET OR ON OTHER IMPERVIOUS SURFACES MUST BE CONTAINED WITH SANDBAGS OR OTHER MEASURES TO PREVENT TRANSPORT TO THE STORM DRAIN SYSTEM.
2. ANY CONSTRUCTION MATERIAL STORED OR STOCKPILED ON–SITE SHALL BE PROTECTED FROM BEING TRANSPORTED BY THE FORCE OF WIND OR WATER.

STREET MAINTENANCE:

1. REMOVE ALL SEDIMENT DEPOSITED ON PAVE ROADWAYS IMMEDIATELY.
2. SWEEP PAVED AREAS THAT RECEIVE CONSTRUCTION TRAFFIC WHENEVER SEDIMENT BECOMES VISIBLE.
3. PAVEMENT WASHING WITH WATER IS PROHIBITED IF IT RESULTS IN A DISCHARGE TO THE STORM DRAIN SYSTEM.

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526–7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER — WILLIAM F. YOUNG — No. C 35715 — Exp. 09/30/23 — CIVIL — STATE OF CALIFORNIA

CITY OF EL MONTE — END OF THE SANTA FE TRAIL — INC. 1912 — CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

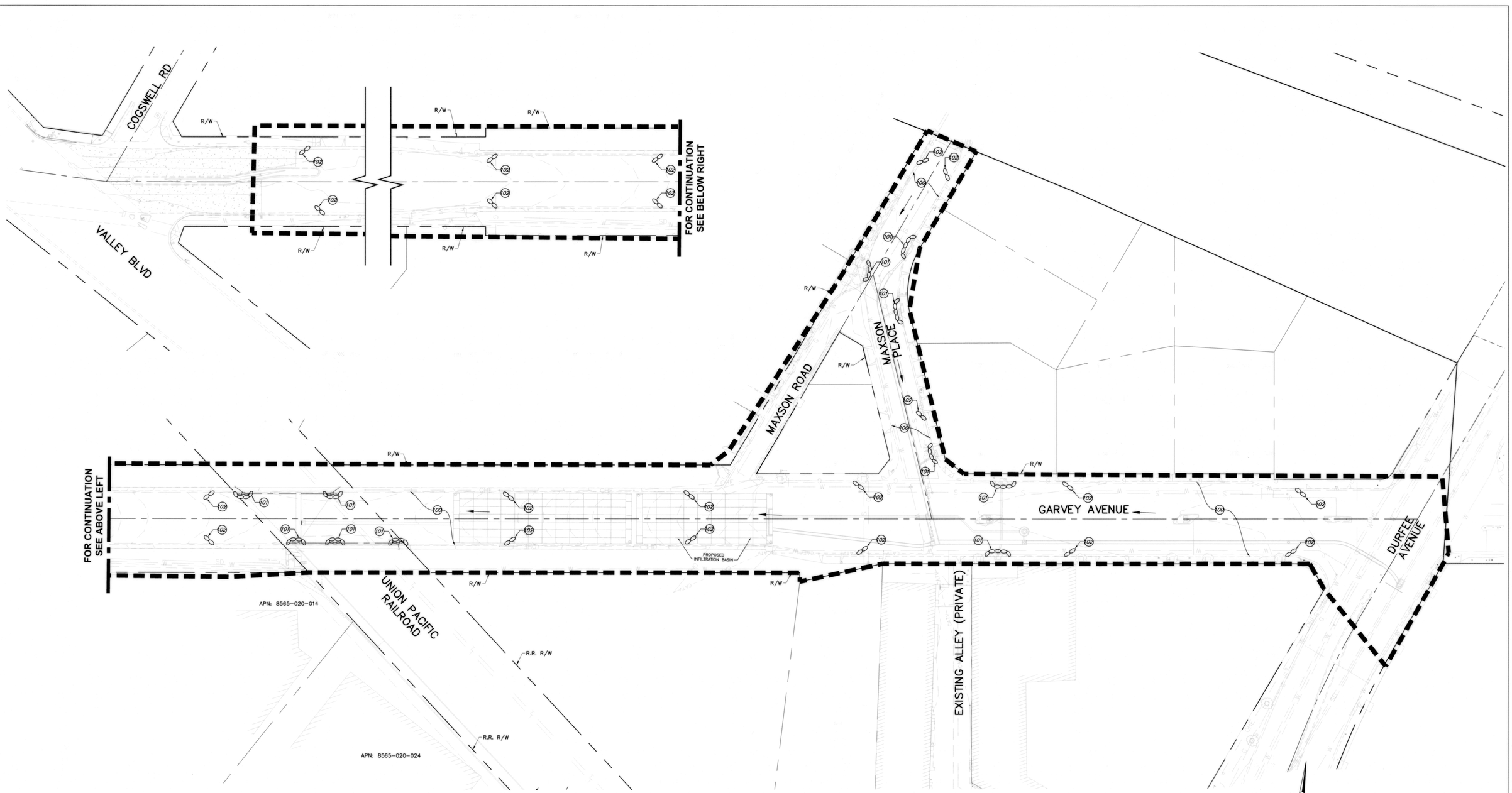
APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23 DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
EROSION CONTROL
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	C-43
SHEET 43 OF 53	

Drawing Name: JOB NO 13120 Temp\AcPublish_13120\2413-043-Erosion Control Plan.dwg
Date/Time: Jan 20, 2023 - 10:56am Login Name: mnguyen



EROSION CONTROL SYMBOLS:

DIRECTION OF FLOW

PROJECT LIMIT

INLET PROTECTION

CHECK DAM

EROSION CONTROL NOTES:

100 STREET SWEEPING AND VACUUMING (BMP SE-7)

101 INSTALL STORM DRAIN INLET PROTECTION (BMP SE-10)

102 INSTALL CHECK DAM (SE-4)

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. YOUNG
No. C 35715
Exp. 09/30/23
CIVIL
STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
DATE 4-20-23

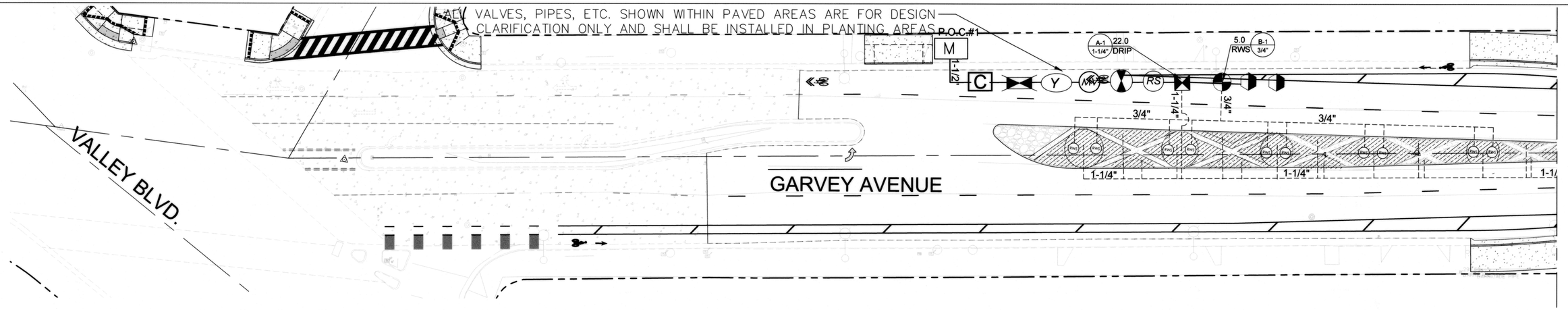
CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
EROSION CONTROL
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

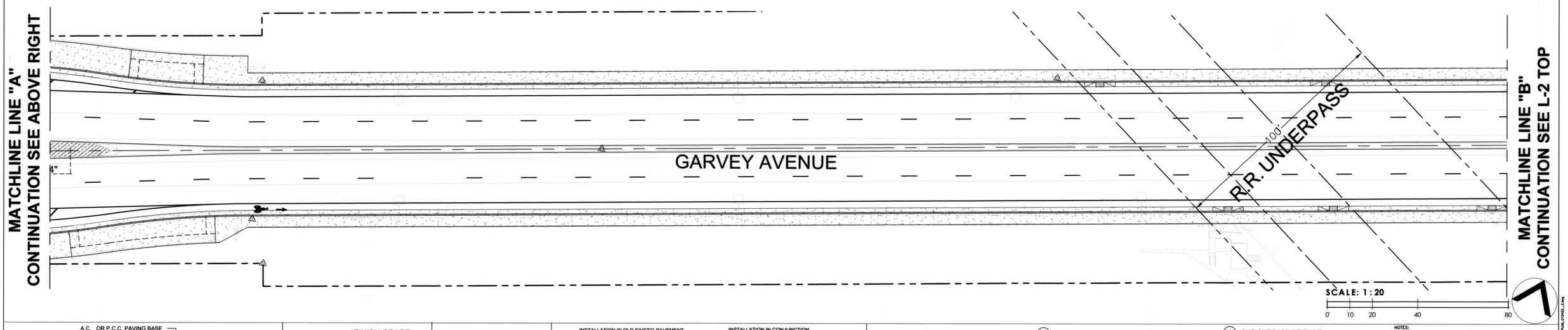
CITY OF EL MONTE PROJECT
CIP No. 884

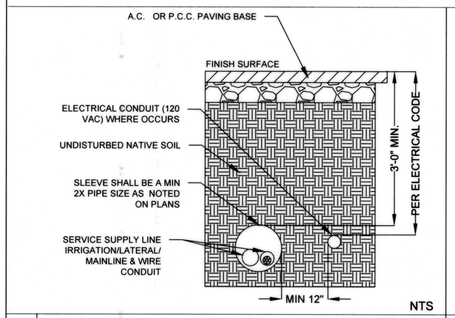
DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER C-44	
SHEET 44 OF 53	

Imperial Sheet - 24"x36" (ARCH D) Date/Time: 2/13/2023 - 10:52am Plotted By: mnguyen

ALL VALVES, PIPES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS

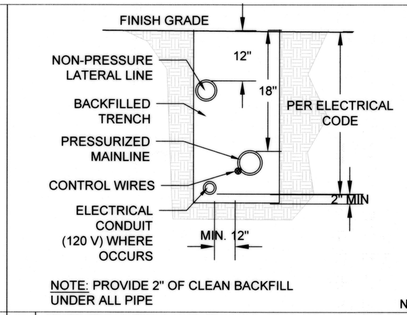






NTS

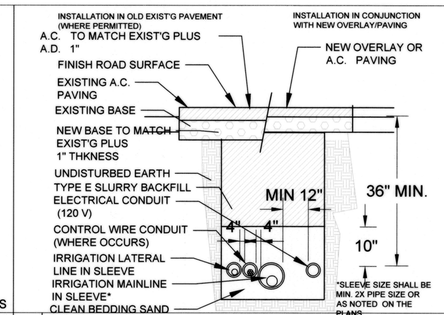
1 BORING UNDER ROADWAY



NOTE: PROVIDE 2" OF CLEAN BACKFILL UNDER ALL PIPE

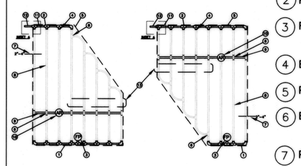
NTS

2 TRENCHING IN PLANTERS



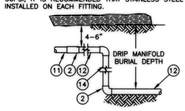
NTS

3 TRENCHING UNDER ROADWAY



1. PVC EXHAUST HEADER
2. PVC SCH 40 TEE OR EL (TYPICAL)
3. FLUSH POINT (TYPICAL) SEE RAIN BIRD DETAIL "LINE FLUSHING"
4. BARB X MALE FITTING: RAIN BIRD XFF-MA FITTING (TYPICAL)
5. PERIMETER OF AREA
6. BARB X BARB INSERT TEE OR CROSS: RAIN BIRD XFF-TEE OR RAIN BIRD XFD-CROSS (TYPICAL)
7. PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA
8. SUB-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE (TYPICAL) POTABLE: XFS DRIPLINE NON-POTABLE: XFSP DRIPLINE
9. RAIN BIRD XF SERIES BLANK TUBING
10. 1/2" AIR RELIEF VALVE: RAIN BIRD MODEL: ARV050
11. PVC SUPPLY MANIFOLD
12. PVC SUPPLY PIPE FROM RAIN BIRD CONTROL ZONE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
13. TOTAL LENGTH OF SELECTED DRIPLINE SHOULD NOT EXCEED LENGTH SHOWN IN TABLE
14. PVC SCH 40 RISER PIPE

NOTES:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE RAIN BIRD XFS DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACINGS.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
3. AIR RELIEF VALVE TO BE INSTALLED AT HIGH POINT OF AREA.
4. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.



XFS Dripline Maximum Lateral Lengths (Feet)

Inlet Pressure psi	12" Spacing		18" Spacing		24" Spacing	
	Nominal Flow (gph)		Nominal Flow (gph)		Nominal Flow (gph)	
	0.6	0.9	0.6	0.9	0.6	0.9
15	273	155	314	250	424	322
20	318	169	353	294	508	368
30	360	230	413	350	586	414
40	395	255	465	402	652	474
50	417	285	528	420	720	488
60	460	290	586	455	780	514

4 TYPICAL DRIP IRRIGATION LAYOUT

NTS

IRRIGATION DESIGN CRITERIA

NAME OF WATER SUPPLIER: SAN GABRIEL VALLEY WATER CO.
CONTACT: LEO BARRERA 909 201-7375
STATIC WATER PRESSURE @P.O.C.: 59-63
MAX. FLOW (GPM) AT STATION: A-2: 23 GPM

CONTRACTOR TO VERIFY STATIC WATER PRESSURE WITH WATER AGENCY/SUPPLIER PRIOR TO INSTALLATION. IF PRESSURE IS BELOW MIN. PRESSURE REQUIRED, CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
FAILURE TO DO SO WILL RESULT IN CONTRACTOR BEING RESPONSIBLE FOR CHANGES THAT MAY OCCUR.

THIS SYSTEM IS DIAGRAMMATIC. ALL PIPE, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHEREVER POSSIBLE OR AT THE LOCATION AS INDICATED ON THE PLAN.

SEE SHEET 47 FOR IRRIGATION LEGEND AND NOTES

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
Kathleen M. McKernin 02/13/2023
KATHLEEN M. MCKERNIN, LS

LICENSED LANDSCAPE ARCHITECT KATHLEEN M. MCKERNIN Signature Renewal Date 10/31/23 Date License No. 5600 STATE OF CALIFORNIA

CITY OF EL MONTE END OF THE SANTA FE TRAIL INC. 1912 CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
LEE TORRES, P.E. DATE
CITY ENGINEER
REVIEWED AND RECOMMENDED BY DATE 4-20-23
GUILLERMO PEREZ

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
IRRIGATION PLAN
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

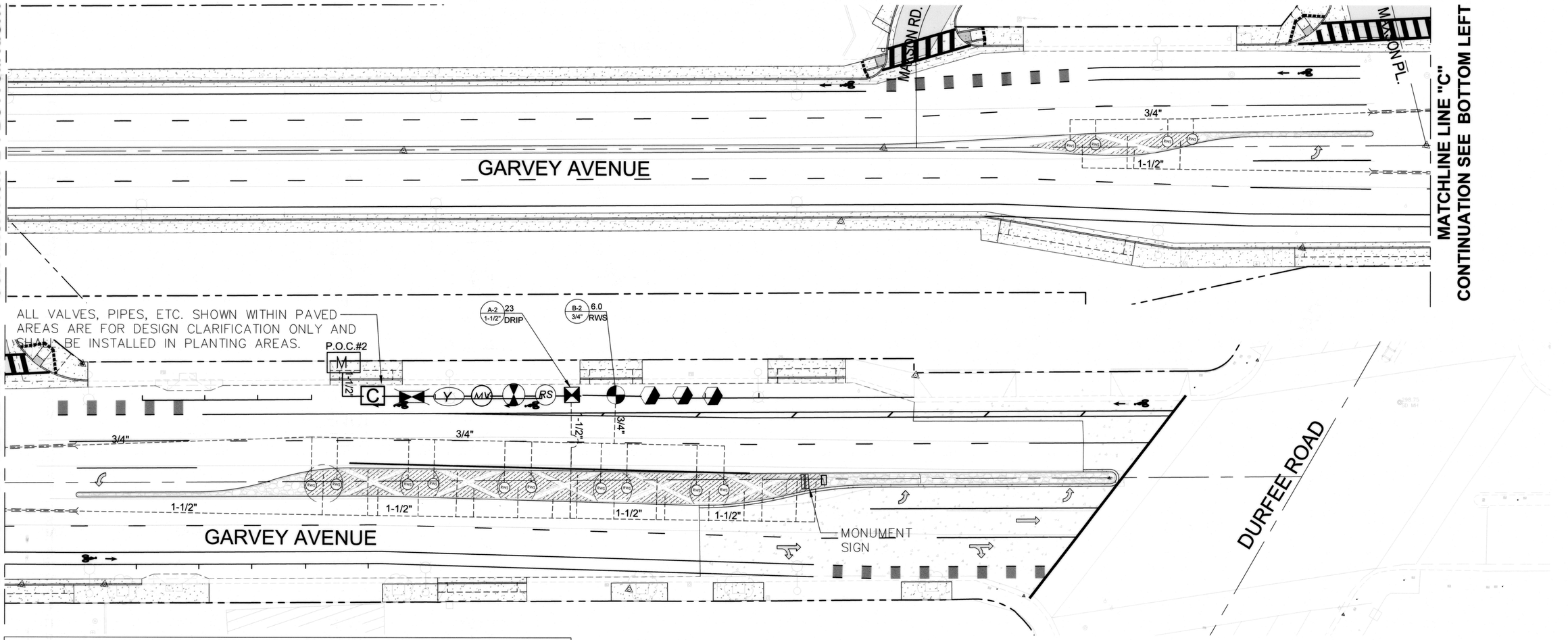
DATE 02/13/2023	DESIGNED BY: KM
	DRAWN BY: KM
SCALE AS SHOWN	CHECKED BY: XX
PLAN NUMBER L-1	
SHEET 45 OF 53	

PLOTTED: Mar 16, 2023 @ 11:13:10 | Plotted By: KEVIN | ACAD Version: R23.0 (Windows Localized) | Drawing Name: C:\Users\kevin\Desktop\CIP 884 - 11432 GARVEY - 21431 - L-0\L-1.dwg | Layout: L-1 | Xrefs: 10X8\21431 - 11432 GARVEY - 21431 - L-0\L-1-24 IRRIGATION PLAN_031422_2.dwg | StandardX21431 - 11432 GARVEY - 21431 - L-0\L-1-24 IRRIGATION PLAN_031422_2.dwg

MATCHLINE LINE "B"
CONTINUATION L-1 BOTTOM RIGHT

MATCHLINE LINE "C"
CONTINUATION SEE BOTTOM LEFT

MATCHLINE LINE "C"
CONTINUATION ABOVE RIGHT



SCALE: 1 : 20

0' 10 20 40 80

IRRIGATION DESIGN CRITERIA

NAME OF WATER SUPPLIER: SAN GABRIEL VALLEY WATER CO.
CONTACT: LEO BARRERA 909 201-7375
STATIC WATER PRESSURE @P.O.C.: 59-63 PSI
MAX. FLOW (GPM) AT STATION: A-2: 23
CONTRACTOR TO VERIFY STATIC WATER PRESSURE WITH WATER AGENCY/SUPPLIER PRIOR TO INSTALLATION. IF PRESSURE IS BELOW MIN. PRESSURE REQUIRED, CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
FAILURE TO DO SO WILL RESULT IN CONTRACTOR BEING RESPONSIBLE FOR CHANGES THAT MAY OCCUR.

THIS SYSTEM IS DIAGRAMMATIC. ALL PIPE, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHEREVER POSSIBLE OR AT THE LOCATION AS INDICATED ON THE PLAN.

SEE SHEET 47 FOR IRRIGATION LEGEND AND NOTES

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
Kathleen M. McKernin 02/13/2023
KATHLEEN M. MCKERNIN, LS

LICENSED LANDSCAPE ARCHITECT
KATHLEEN M. MCKERNIN
Signature
Renewal Date 10/31/23
Date
License No. 5630
STATE OF CALIFORNIA

CITY OF EL MONTE
END OF THE SANTA FE TRAIL
INC. 1912
CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
LEE TORRES, P.E. DATE
CITY ENGINEER
REVIEWED AND RECOMMENDED BY DATE 4-20-23
GUILLERMO PEREZ

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
IRRIGATION PLAN
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: KM
	DRAWN BY: KM
SCALE AS SHOWN	CHECKED BY: XX
PLAN NUMBER	L-2
SHEET 46	OF 53

IRRIGATION KEY

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	REMARKS	DETAIL	AMOUNT
M	DESIGNATED LANDSCAPE WATER METER	PER UTILITY	1-1/2"	1-1/2" --- ---		2
	BACKFLOW PREVENTER	WILKENS	975XL2	1-1/2" BACKFLOW PREVENTER ASSEMBLY W/ ENCLOSURE AND PCC PAD	DETAIL:B SHEET 47	2
MV	REMOTE CONTROL MASTER VALVE	BUCHNER SUPERIOR	3200 SERIES	NORMALLY CLOSED MASTER VALVE LINE SIZE	DETAIL: D, SHEET: 47	2
RS	RAIN SENSOR	HUNTER	MINI-CLIK	INSTALL IN VANDAL RESISTANT ENCLOSURE MOUNTED TO CONTROLLER ENCLOSURE	NA	2
Y	WYE STRAINER PRESSURE REGULATOR	WILKENS	500XLYSBR	COMBINATION PRESSURE REG. & WYE STRAINER LINE SIZE--INSTALL IN SEPARATE VALVE BOX (a)	DETAIL:C, SHEET 47	2
C	IRRIGATION CONTROLLER (b) AMBIENT LIGHT POWERED	DIG-CORP	LEIT 4000-8	8 STATION CONTROLLER AMBIENT LIGHT POWERED	DETAIL: A, SHEET: 47	2
	GATE VALVE	APOLLO (c)	106T SERIES	LINE SIZE	DETAIL:E, SHEET: 47	2
	DRIP CONTROL ZONE	RAINBIRD	XCZ-100-PRB-LC	RAINBIRD VALVE	DETAIL:I, SHEET: 47	2
	REMOTE CONTROL VALVE	RAINBIRD	PESB SERIES	100-PEB INCLUDING DIG-LEMA 1600HE AND RAINBIRD SOLENOID ADAPTER	DETAIL:L, SHEET: 47	2
	QUICK COUPLER	HUNTER	HQ-44	1" QUICK COUPLER VALVE INSTALL EVERY 75'	DETAIL: F, SHEET: 47	5
P	CONTROL WIRE PULL BOX (NOT SHOWN)	APPROVED	---	SIZE AS REQUIRED	NA	
-C-	CONTROL WIRE CONDUIT	APPROVED	SCH. 40 PVC	SIZE AS REQUIRED	DETAIL: G, SHEET: 47	
	IRRIGATION MAINLINE	---	CLASS 315 PVC 2" OR GREATER SCH. 40 PVC. 1.5" OR SMALLER	SIZE NOTED ON PLAN	DETAIL: 1,2 &3, SHEET 44	
— — — —	IRRIGATION LATERAL	---	SCH. 40 PVC	SIZE NOTED ON PLAN	DETAIL: 1, 2 &3, SHEET 44	
	PIPE SLEEVING	----	SCH. 40 PVC	TWICE LINE SIZE OR AS NOTED	DETAIL: 1,2 &3, SHEET: 44	
RWS	ROOT ZONE WATERING SYSTEM (RWS)	HUNTER	RZWS-36-50-CV-R	PCB NOZZLE 30 PSI 0.5 GPM	DETAIL:K, SHEET: 47	24
	LANDSCAPE DRIPLINE (d)	RAINBIRD	XFS-06-12 COPPER SHIELD SUB-SURFACE DRIP SYSTEM	--- 30 PSI 0.6 GPH/ EMITTER	DETAIL: 4, SHEET: 44	

a.) SET PRESSURE REGULATOR +5 PSI ABOVE MIN. PRESSURE REQ'D

b.) LET CONTROLLER ASSEMBLY SHALL INCLUDE:
MCOL 4000L -- MOUNTING COLUMN LEIT KEY -- SPARE KEY
MKIT 4000 -- COLUMN MOUNTING KIT SKIT -- SENSOR WIRE ADAPTER
ENCL 4000 -- STAINLESS STEEL ENCLOSURE

c.) APOLLO VALVE AND CSDT FLOW SENSOR AVAILABLE THROUGH GENTILE & ASSOC., INC. 760 241-5734

d.) VALVE AND OPERATION INDICATOR PER DETAILS H, I, J, L-04
PVC HEADER SHALL BE 3/4" SCH 40 PVC PIPE
DRIPLINE SPACING @12"-14" O.C.
INSTALL OPERATION INDICATOR PER DETAIL AND FLUSH VAVLE AT LOW POINT

WUCOLS-WATER USE CLASSIFICATIONS OF LANDSCAPE SPECIES
H: HIGH M: MODERATE L: LOW

IRRIGATION CONSTRUCTION NOTES:

POC-#1 & #2 CONNECTION TO EXISTING WATER SUPPLY SOURCE

** CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZE AND CONDITIONS OF BACKFLOW PREVENTER AND WATER METER WITH ENGINEER PRIOR TO INSTALLATION
** CONSTRUCT CONCRETE PAD AND INSTALL BACKFLOW PREVENTER ENCLOSURE PER DETAIL X SHEET X
CONNECT NEW 1-1/2" MAINLINE TO BACKFLOW PREVENTER AS SHOWN IN DETAIL X SHEET X

IRRIGATION DESIGN CRITERIA

NAME OF WATER SUPPLIER: SAN GABRIEL VALLEY WATER CO.
CONTACT: LEO BARRERA 909-201-7373
STATIC WATER PRESSURE @ P.O.C.: 59-63 PSI
MAX FLOW (GPM) AT STATION A-2 : 23 GPM

CONTRACTOR TO VERIFY STATIC WATER PRESSURE WITH WATER AGENCY/SUPPLIER PRIOR TO INSTALLATION. IF PRESSURE IS BELOW MIN. PRESSURE REQ'D, CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. FAILURE TO DO SO WILL RESULT IN CONTRACTOR BEING RESPONSIBLE FOR CHANGES THAT MAY OCCUR.

IRRIGATION CONTROL WIRE SIZING TABLE

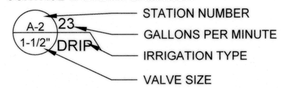
CONDUIT SIZE	MAX NO. OF WIRES #14 AWG
0'-0 1/2"	2
0'-0 3/4"	4
0'-1"	6
0'-1 1/4"	10
0'-1 1/2"	14
2	25

PIPING SIZES

MINIMUM PIPE SIZE SHALL BE $\frac{3}{4}$" FOR ALL PIPE SIZES NOT SHOWN USE THE FOLLOWING GUIDELINES:

G.P.M.	PIPE SIZE	TYPE
0-8	$\frac{3}{4}$"	SCH. 40
9-12	1"	SCH. 40
13-22	1-1/4"	SCH. 40
23-30	1-1/2"	SCH. 40
31-40	2"	SCH. 315

CONTROL VALVE INFORMATION



PROJECT INFORMATION (SECTION 492.3(1)

DATE: 4/29/2022
PROJECT APPLICANT: CITY OF EL MONTE
PROJECT LOCATION: GARVEY AVE. BETWEEN VALLEY BLVD AND DURFEE ROAD
TOTAL LANDSCAPED AND IRRIGATED AREA: 5418S.F.
PROJECT TYPE: PUBLIC AGENCY
WATER SUPPLY: DOMESTIC
WATER AGENCY: SAN GABRIEL VALLEY WATER CO.
PROJECT APPLICANT CONTACT: CITY OF EL MONTE, DEPT. OF PUBLIC WORKS

"I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENT PACKAGE"

LANDSCAPE ARCHITECT: Kathleen M. McKernin DATE: 02/13/2023

SOIL MANAGEMENT REPORT (SECTION 492.5)*

1. PRIOR TO THE INSTALLATION OF PLANTING MATERIAL, THE CONTRACTOR SHALL PERFORM SOIL TEST ANALYSIS OF PLANTING AREAS. SOIL ANALYSIS MAY INCLUDE:
   1.1. SOIL TEXTURE
   1.2. IINFILTRATION RATE
   1.3. pH
   1.4. TOTAL SOLUBLE SALTS
   1.5. PERCENT ORGANIC MATTER
   1.6. SOIL AMENDMENT RECOMMENDATIONS

SOIL SAMPLES SHALL BE DELIVERED TO AND TEST SHALL BE CONDUCTED BY A CERTIFIED SOIL LABORATORY

2. CONTRACTOR SHALL SUBMIT SOIL ANALYSIS REPORT TO THE CITY AS PART OF THE CERTIFICATE OF COMPLETION
3. CONTRACTOR SHALL SUBMIT DOCUMENTATION VERIFYING IMPLEMENTATION OF SOIL ANALYSIS REPORT RECOMMENDATIONS TO THE CITY AS PART OF THE CERTIFICATE OF COMPLETION

LANDSCAPE AND IRRIGATION MAINTENANCE SCHEDULE (SECTION 492.11)*

1. LANDSCAPE SHALL BE MAINTAINED TO ENSURE WATER USE EFFICIENCY
2. A REGULAR MAINTENANCE SCHEDULE SHALL BE SUBMITTED WITH THE CERTIFICATE OF COMPLETION.
3. REGULAR MAINTENANCE SCHEDULE SHALL INCLUDE:
   3.1. ROUTINE INSPECTION
   3.2. ADJUSTMENT AND REPAIR OF IRRIGATION
   3.3. REPLENISHING MULCH
   3.4. FERTILIZING
   3.5. WEEDING

IN ALL LANDSCAPE AREAS AND REMOVING ANY OBSTRUCTION TO EMITTING DEVICES

4. OPERATION OF SYSTEM IS ALLOWED FOR AUDITING AND SYSTEM MAINTENANCE
5. REPAIR OF ALL IRRIGATION EQUIPMENT SHALL BE DONE WITH THE ORIGINALLY INSTALLED COMPONENTS OR THEIR EQUIVALENTS

IRRIGATION AUDIT/IRRIGATION WATER USE ANALYSIS (SECTION 492.12)*

1. ALL IRRIGATION AUDITS SHALL BE CONDUCTED BY A CERTIFIED IRRIGATION AUDITOR
2. NEW CONSTRUCTION AND REHABILITATED LANDSCAPE PROJECTS INSTALLED AFTER JANUARY 1, 2010:
   2.1. CONTRACTOR SHALL SUBMIT AN IRRIGATION AUDIT REPORT WITH THE CERTIFICATE OF COMPLETION TO THE LOCAL AGENCY THAT MAY INCLUE: INSPECTION, SYSTEM TUNE-UP, SYSTEM TEST WITH DISTRIBUTION UNIFORMITY, REPORTING SYSTEM LEAK AND RUN-OFF THAT CAUSE OVERLAND FLOW, AND PREPARATION OF AN IRRIGATION SCHEDULE.
3. LOCAL AGENCY SHALL ADMINISTER PROGRAMS TO INCLUDE IRRIGATION SURVEYS FOR COMPLIANCE WITH MAWA

*REFERENCE:
CALIFORNIA CODE OF REGULATION -- TITLE 23: WATER DIVISION 2: DEPARTMENT OF WATER RESOURCES
CHAPTER 2.7 MODEL WATER EFFICIENT LANDSCAPE ORDINANCE

Appendix F – Water Efficient Landscape Worksheet

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package.

Reference Evapotranspiration (ETo) 50.2

Hydrozone # /Planting Description[a]	Plant Factor (PF)	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF/IE)	Landscape Area (sq. ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[d]
Regular Landscape Areas							
A-1 LOW WATER USE PLANTS	0.2	DRIP	0.81	0.16	2175	348	10,831
A-2 LOW WATER USE PLANTS	0.2	DRIP	0.81	0.16	2220	355	11049
B-1 LOW WATER USE PLANTS	0.2	DRIP	0.81	0.16	100	16	498
B-2 LOW WATER USE PLANTS	0.2	DRIP	0.81	0.16	120	19	591
				Totals	(A) 4615	(B) 738	
Special Landscape Areas							
[redacted]				1			
				1			
				1			
				1			
				1			
				Totals	(C)	(D)	
						ETWU Total	22969
						Maximum Allowed Water Allowance (MAWA)[e]	64637

[a] ***Hydrozone #/Planting Description*** *E.g*
1.) front lawn
2.) low water use plantings
3.) medium water use plantings

[b] ***Irrigation Method*** *overhead spray or drip*

[c] ***Irrigation Efficiency*** *0.75 for spray head 0.81 for drip*

[d] ***ETWU (Annual Gallons Required)*** *= Eto x 0.62 x ETAF x Area* where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year.

[e] ***MAWA (Annual Gallons Allowed)*** *= (Eto) (0.62) [(ETAF x LA) + ((1-ETAF) x SLA)]* where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is .55 for residential areas and 0.45 for non-residential areas.

ETAF Calculations on page 35

IRRIGATION GENERAL NOTES

1. THIS SYSTEM IS DIAGRAMMATIC. ALL PIPE, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHEREEVER POSSIBLE OR AT THE LOCATION AS INDICATED IN THE PLAN.
2. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS INDICATED ON THE PLAN WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS OR GRADE DIFFERENCES EXIST AND SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR MUST ASSUME FUKLL RESPONSIBILITY FOR REVISIONS NECESSARY. NOTIFY THE CITY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL FIELD CONDITIONS.
3. CONTRACTOR SHALL NOT LOCATE ANY ITEMS WHERE IT IS OBVIOUS THAT THEY RE IN DIRECT CONFLICT WITH UNDERGROUND UTILITIES, STRUCTURES, PERMANENT IMPROVEMENTS OR PEDESTRIAN AND VEHICULAR SAFETY CONSIDERATIONS.
4. SYSTEM DESIGN IS BASED ON INIMUM OPERATING PRESSURE SHOWN AT EACH POINT OF CONNECTION WITH MAXIMUM GPM DEMAND SPECIFIED. IRRIGATION CONTRACTOR SHALL VERIFY ALL PRESSURES ON SITE PRIOR TO CONSTRUCTION AND GIVENTO IN WRITING TO THE ENGINEER.
5. MAINLINE FEEDER BETWEEN POINT OF CONNECTION AND METER TO BE OF MATERIAL AS REQUIRED BY CURRENT WATER DISTRICT/AGENCY.
6. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, SIDEWALKS, CURBS, ETC.. THEY SHALL COORDINATE THEIR WORK WITH THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS FOR LOCATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADS, PAVING AND STRUCTURES DURING BIDDING AND CONSTRUCTION PERIOD.
7. CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORKS. THE LOCATIONS OF UTILITIES, STRUCTURES AND SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE CITY ENGINEER.
8. LOCATION EXISITNG WATER SERVICES/SUPPLY LINE SHOWN ON PLAN ARE APPROXIMATE ONLY. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE WITH THE ENGINEER AND WATER UTILITY CO. REPRESENTATIVE FOR EXACT LOCATION PRIOR TO INSTALLATION.
9. CONTRACTOR SHALL VERIFY IN THE FIELD WITH THE ENGINEER, AND THE LOCAL GOVERNING AGENCY REPRESENTATIVE. ALL LOCATIONS OF POINT OF CONNECTIONS, WATER METERS, MAIN WATER SUPPLY LINE, AUTOMATIC CONTROLLER AND VALVES, PRIOR TO CONSTRUCTION.
10. CONTACT CHRISTOPHER ORTIZ OF THE CITY OF EL MONTE PUBLIC WORKS OPERATIONS SUPERINTENDENT (626) 580-2250 cortiz@elmonteca.gov FOR FIELD VERIFICATION AND COORDINATION PRIOR TO COMMENCING CONSTRUCTION WORKS.
11. 1IN ADDITION TO THE SLEEVES SHOWN ON THE PLAN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ADDITIONAL SLEEVES OF SUFFICIENT SIZE UNDER PAVED AREAS AS REQUESTED BY THE ENGINEER. SLEEVES SHALL BE SCHEDULE 40 PVC. CONTRACTOR SHALL FLUSH ALL LINES. SLEEVES TO BE GROUPED WHERE POSSIBLE.
12. PRECISE LOCATION OF IRRIGATION HEAD, NOZZLE TYPE AND DRIPPER LINE SHALL BE APPROVED BY THE ENGINEER.
13. ALL IRRIGATION CONSTRUCTION AND MATERIALS SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS AT THE LOCATIONS SHOWN ON THE PLANS AND ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH LOCAL AND REGIONAL GOVERNING CODES. VERIFY LOCATIONS OF ALL IRRIGATION WITH THE ENGINEER PRIOR TO INSTALLATION.
14. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AS SHOWN ON THE DETAILS AND IN SPECIFICATIONS. CONTRACTOR IS TO PROVIDE ADDITIONAL (5) PILOT WIRES AND (1) COMMON WIRE FROM CONTROLLER ALONG ENTIRETY OF MAINLINE TO THE LAST RCV ON EACH OF EVERY LEG OF MAINLINE. LABEL SPARE WIRES AT BOTH ENDS.
15. INSTALL ALL QUICK COUP:ER VALVES AS SHOWN ON THE DETAILS. QUICK COUPLER VALVE SHALL BE INSTALLED WITHIN 28" OF HARDSCPE.

VALVE DATA

STA. #	GPM	IN/HR	PLANTING	EXP.	ASPECT
A–1	22	0.2000	SHRUB	SUN	FLAT
A–2	23	0.2	SHRUB	SUN	FLAT
B–1	5	NA	TREE	SUN	FLAT
B–2	6	NA	TREE	SUN	FLAT

IRRIGATION SCHEDULING

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT.	OCT.	NOV.	DEC
A–1	5 | 1 |4.3	5 | 1 |4.3	8| 1 |4.3	8| 1 |4.3	8| 1 |4.3	12|2 |8.6	15| 2 |8.6	18| 2 |8.6	12| 2 |8.6	10| 1 |4.3	5| 1 |4.3	5| 1 |4.3
A–2	5| 1 |4.3	5| 1 |4.3	8| 1 |4.3	8| 1 |4.3	8| 1 |4.3	12|2 |8.6	15| 2 |8.6	18| 2 |8.6	12| 2 |8.6	10| 1 |4.3	5| 1 |4.3	5| 1 |4.3
B–1	3 | 1 |4.3	3 | 1 |4.3	5 |1 |4.3	5| 1 |4.3	5| 1 | 4.3	8| 2 |8.6	12| 2 |8.6	12| 2 | 8.6	8| 2 |8.6	6| 1 |4.3	3| 1 |4.3	3| 1 |4.3
B–2	3 | 1 |4.3	3 | 1 |4.3	5 |1 |4.3	5| 1 |4.3	5| 1 | 4.3	8| 2 |8.6	12| 2 |8.6	12| 2 | 8.6	8| 2 |8.6	6| 1 |4.3	3| 1 |4.3	3| 1 |4.3

5 | 1 |4.3
- 5 — CYCLES PER MONTH
- 1 — RUNS PER CYCLE
- 4.3 — MINUTES PER RUN

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526–7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
Kathleen M. McKernin 02/13/2023
KATHLEEN M. MCKERNIN, LS

LICENSED LANDSCAPE ARCHITECT — KATHLEEN M. MCKERNIN — Signature — Renewal Date 10/31/23 — Date — License No. 5605 — STATE OF CALIFORNIA

CITY OF EL MONTE — BUILT TO THE SAMPLE — INC 1912 — TRAIL — CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

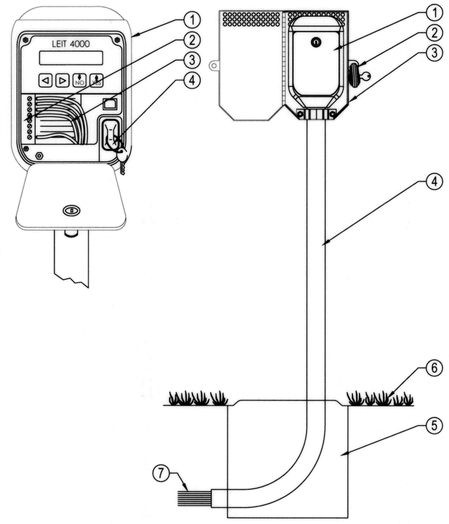
APPROVED BY:
LEE TORRES, P.E. DATE
CITY ENGINEER
REVIEWED AND RECOMMENDED BY DATE 4-20-23
GUILLERMO PEREZ

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
IRRIGATION LEGEND/FORMS AND NOTES
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: KM
SCALE AS SHOWN	DRAWN BY: KM
	CHECKED BY: XX
PLAN NUMBER	L-3
SHEET 47 OF 53	

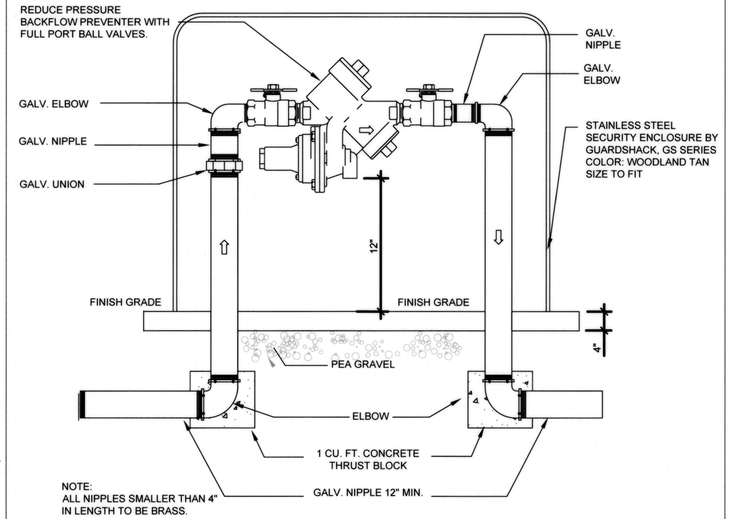
DRAWING NAME: Z:\CIP\CIP 884 Garvey Ave\Plans\L-3 Garvey Ave Irrigation Legend Forms and Notes.dwg PLOT DATE: Apr 06, 2023 - 2:29pm PLOTTED BY: mgutierrez



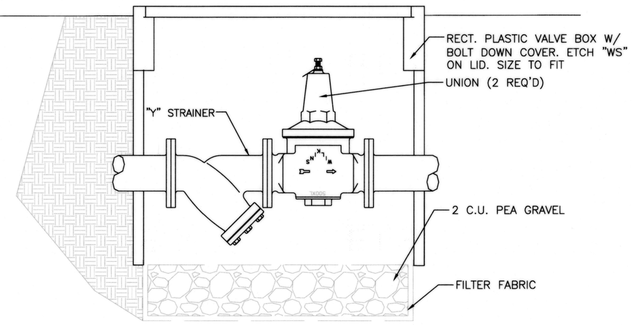
LEGEND
1. LEIT CONTROLLER MODEL LEIT 4000
2. HIGH SECURITY STAINLESS STEEL DISC-LOCK MODEL 30-405
3. HEAVY-DUTY STAINLESS STEEL ENCLOSURE WITH LIGHT ACCESS THROUGH GRID ON TOP AND INTERNAL CLAMP TO SECURE COLUMN MOUNTING MODEL ENCL 4000
4. GALVANIZED STEEL MOUNTING COLUMN FOR LEIT 4000 AND 4000E
   I MODEL MCOL 4000 32" (81 CM) SHORT
   II MODEL MCOL 4000L 48" (124 CM) LONG
5. 12" X 18" (30 X 45 CM) CONCRETE BASE USING 90 LB. (40 KG) BAG OF CONCRETE
6. FINISH GRADE
7. DIRECT BURIAL CONTROL WIRES TO CONTROL VALVES

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

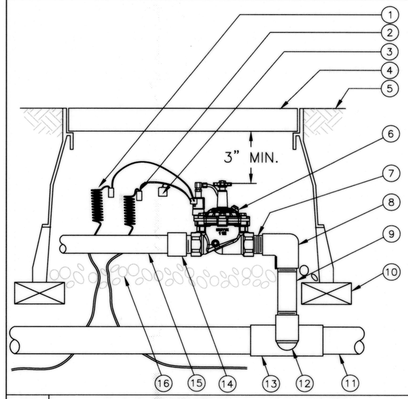
A IRRIGATION CONTROLLER ASSEMBLY NTS



B BACKFLOW PREVENTER NTS

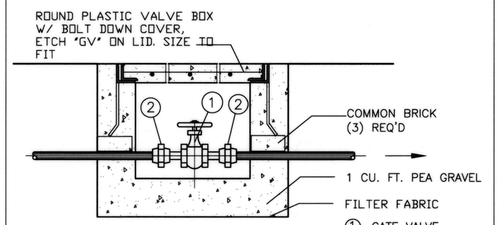


C WYE STRAINER/PRESSURE REGULATOR NTS



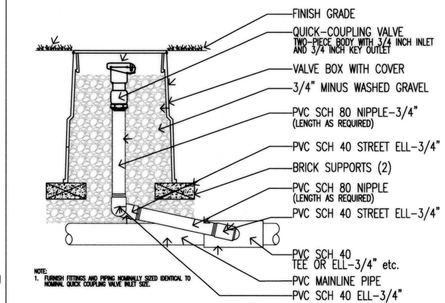
1. 30-INCH LINEAR LENGTH WIRE, COILED
2. WATERPROOF CONNECTION
3. ID TAG
4. VALVE BOX WITH COVER
5. FINISH GRADE/TOP OF MULCH
6. CONTROL VALVE: SUPERIOR 3200 SERIES
7. PVC SCH 80 NIPPLE (CLOSE)
8. PVC SCH 40 ELL
9. PVC SCH 80 NIPPLE (AS REQD LENGTH)
10. BRICK (1 OF 4)
11. PVC MAINLINE PIPE
12. SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
13. PVC SCH 40 TEE OR ELL
14. PVC SCH 40 MALE ADAPTER
15. PVC LATERAL PIPE
16. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

D MASTER VALVE NTS

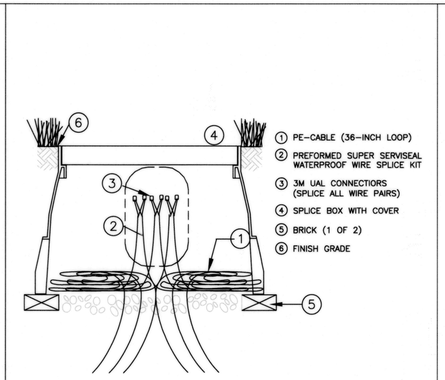


1. GATE VALVE
2. SCH 80 PVC UNION

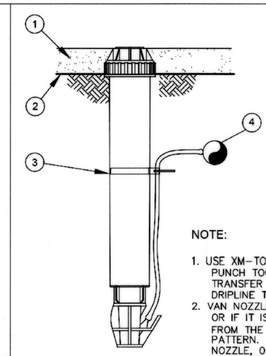
E GATE VALVE/VALVE BOX NTS



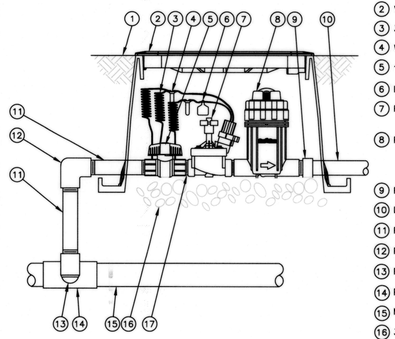
F QUICK COUPLER/BOX NTS



G CONTROL WIRE SPLICE

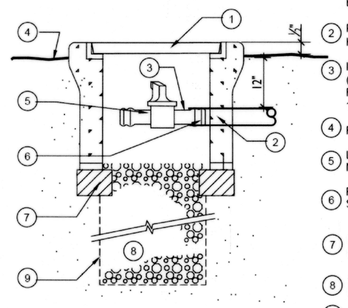


H OPERATION INDICATOR NTS



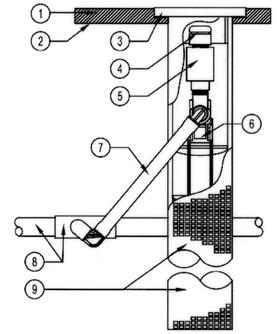
1. FINISH GRADE/TOP OF MULCH
2. VALVE BOX WITH COVER: RAIN BIRD VB-STD
3. 30-INCH LINEAR LENGTH OF WIRE, COILED
4. WATERPROOF CONNECTION: RAIN BIRD DB SERIES
5. 1-INCH BALL VALVE (INCLUDED IN XCZ-PRB-100-COM KIT)
6. ID TAG
7. REMOTE CONTROL VALVE: RAIN BIRD PESB (INCLUCED IN XCZ-PRB-100-COM KIT)
8. PRESSURE REGULATING QUICK CHECK BASKET FILTER: RAIN BIRD PRB-QKCHK-100 (INCLUDED IN XCZ-PRB-100-COM KIT)
9. PVC SCH 40 FEMALE ADAPTOR
10. LATERAL PIPE
11. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
12. PVC SCH 40 ELL
13. PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
14. PVC SCH 40 TEE OR ELL
15. MAINLINE PIPE
16. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
17. PVC SCH 80 NIPPLE, CLOSE (INCLUDED IN XCZ-PRB-100-COM KIT)

I DRIP ZONE CONTROL KIT NTS



1. ROUND PLASTIC VALVE BOX W/ BOLT-DOWN COVER. BRAND "GV" ON VALVE LID.
2. PVC LATERAL (OR EXHAUST HEADER)
3. INSERT FEMALE ADAPTER (SIZE AS READ) W/ REDUCING BUSHING MPT X 1/2" FPT
4. FINISH GRADE
5. LINE FLUSHING VALVE: NETAFIM TLSOV
6. POLYETHYLENE TUBING WITH STAINLESS STEEL CLAMP
7. BRICK SUPPORTS (3 REQ')
8. 3/4" GRAVEL MIN. 12" DEPTH
9. FILTER FABRIC

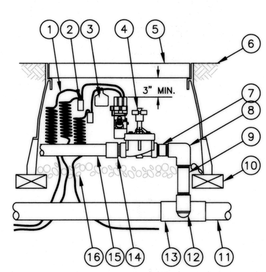
J LINE FLUSHING VALVE NTS



1. MULCH
2. FINISH GRADE
3. GRATE CAP
4. HUNTER PCB BUBBLER
5. HUNTER HCV CHECK VALVE
6. PATENTED STRATA ROOT SYSTEM
7. HUNTER SWING JOINT
8. LATERAL,TEE OR ELL/PIPE
9. ROOT INTRUSION BARRIER

NOTES
1. INSTALL 12" AWAY FROM TREE TRUNK. SEE IRRIGATION PLAN FOR QUANTITY AND LOCATION.
2. INSTALL HUNTER FILTER FABRIC SLEEVE-#RZWS-SLEEVE.

K ROOT ZONE WATERING SYS. NTS



1. 30-INCH LINEAR LENGTH OF WIRE, COILED
2. WATERPROOF CONNECTION RAIN BIRD SPLICE-1(1 OF 2)
3. ID TAG: RAIN BIRD VID SERIES
4. REMOTE CONTROL VALVE: RAIN BIRD PESB
5. VALVE BOX WITH COVER: RAIN BIRD VB-STD
6. FINISH GRADE/TOP OF MULCH
7. PVC SCH 80 NIPPLE (CLOSE)
8. PVC SCH 40 ELL
9. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
10. BRICK (1 OF 4)
11. PVC MAINLINE PIPE
12. SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
13. PVC SCH 40 TEE OR ELL
14. PVC SCH 40 MALE ADAPTER
15. PVC LATERAL PIPE
16. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

L REMOTE CONTROL VALVE NTS

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
1561 E. ORANGETHORPE AVE. SUITE 240 FULLERTON, CA 92831 TEL (714) 526-7500 www.cwecorp.com
UNDER THE SUPERVISION OF: 02/13/2023
KATHLEEN M. MCKERNIN, LS

LICENSED LANDSCAPE ARCHITECT KATHLEEN M. MCKERNIN Renewal Date 10/31/23 State of California License No. 5670

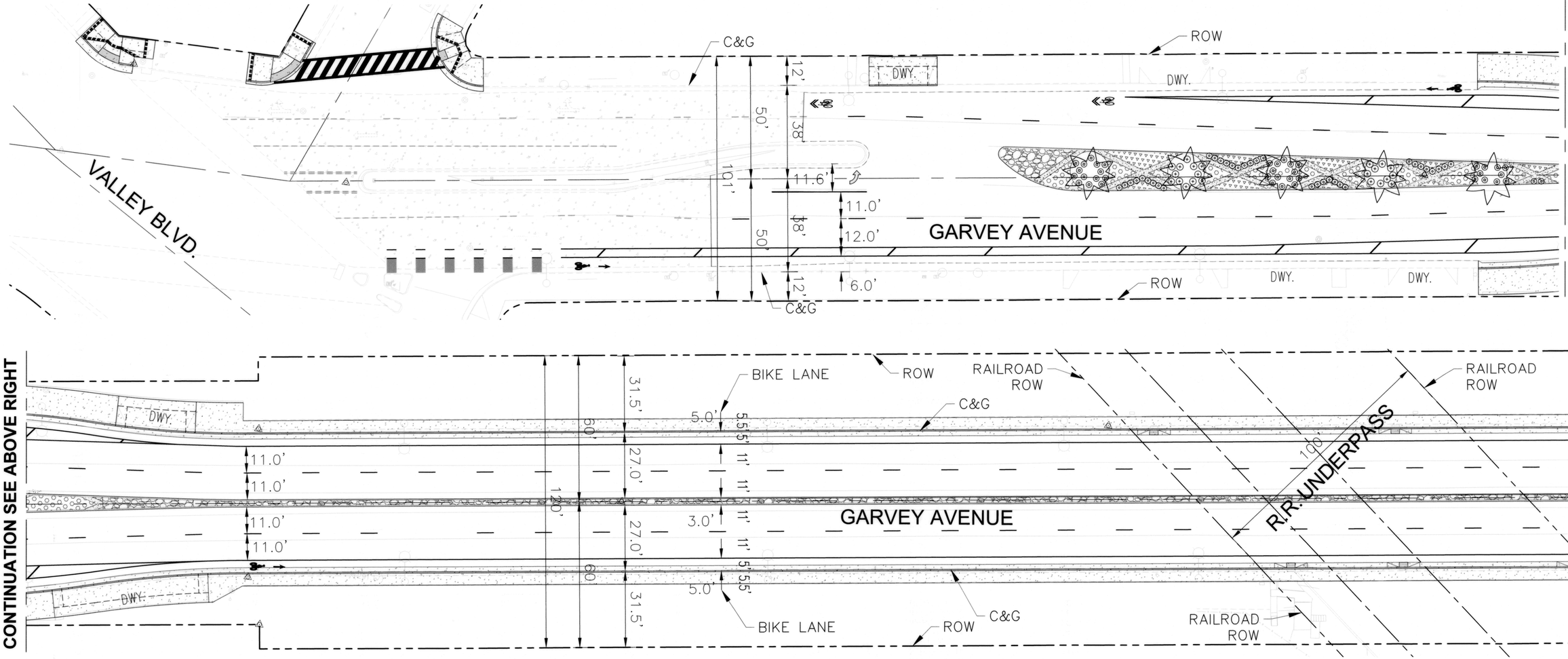
CITY OF EL MONTE DEPARTMENT OF PUBLIC WORKS 11333 VALLEY BOULEVARD EL MONTE, CA 91731 (626) 580-2058 www.ci.el-monte.ca.us

APPROVED BY:
LEE TORRES, P.E. CITY ENGINEER — DATE
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ — DATE 4-20-23

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
IRRIGATION DETAILS
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: KM
SCALE AS SHOWN	DRAWN BY: KM
	CHECKED BY: XX
PLAN NUMBER	L-4
SHEET 48 OF 53	



PLANT LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	HEIGHT	WIDTH	QTY	NOTES	WATER USE WUCOLS
TREES									
	PHOENIX DACTYLIFERA 'MEDJOOL'	DATE PALM	18' BTH	AS SHOWN	20'	20'	12	STANDARD DIAMOND TRIMMED TRUNK DETAIL:C SHEET: 50	LOW
SHRUBS									
	CALISTEMON C. 'LITTLE JOHN'	LITTLE JOHN DWARF BOTTLEBRUSH	5 GALLON	36" O.C.	3'	3'	90	DETAIL:B SHEET: 50	LOW
	ALOE STRIATA	CORAL ALOE	5 GALLON	18" O.C.	12"-18"	2'	76	DETAIL:B SHEET: 50	LOW
	ANIGOZANTHOS 'BUSH RANGER'	DWARF RED KANGAROO PAWS	5 GALLON	30" O.C.	3'	2'	54	DETAIL:A SHEET: 50	LOW
GROUNDCOVER									
	SEDUM NUSSBAUMERIANUM 'ORANGE DELIGHT'	ORANGE DELIGHT SEDUM	FLATS	9" O.C..	6'-8'	9"	42	DETAIL:A, SHEET: 50	LOW
	SENECIO SERPENS	BLUE CHALKSTICKS	FLATS	20" O.C.	<1'	2'-3'	17	DETAIL: A, SHEET: 50	LOW

GENERAL PLANTING NOTES

1. CONTRACTOR SHALL VERIFY EXACT LOCATIONSOF TREES IN MEDIAN WITH ENGINEER PRIOR TO INSTALLATION. CONTRACTOR SHALL NOTIFY ENGINEER IF THERE IS A CONFLICT WITH EXISTING/PROPOSED UTILITY STRUCTURE, ESPECIALLY SOUTHERN CALIFORNIA EDISON FACILITIES.
2. CONTRACTOR SHALL CHALK LAYOUT SHRUB MASSES AND GROUNDCOVERS WITHIN THE PLANTING AREAS AND VERIFY WITH THE ENGINEER PRIOR TO INSTALLATION
3. CONTRACTOR SHALL FURNISH AND INSTALL 3-INCH LAYER OF REDWOOD CHIPS, MEDIUM GRIND, AS TOP DRESSING ALL SHRUB AND GROUNDCOVER AREAS. REDWOOD CHIPS AVAILABLE THROUGH RECYCLED WOOD PRODUCTS (877) GROW-RWP hank@wpmulch.com
4. ALL PLANTING BACKFILL AMENDMENTS SHALL BE SUPPLEMENTED WITH 'TRI-C HUMATE PLUS' AND 'MYCO PAK' MANUFACTURED BY TRI-C (909) 590-1790 https://www.tri-corganics.com/
5. KEEP REDWOOD CHIPS 6 INCHES CLEAR FROM TREE TRUNK AND SHRUB STEM
6. QUANTITIES SHOWN ON LEGEND ARE FOR CONVENIENCE ONLY, CONTRACTOR SHALL VERIFY EXACT QUANTITY OF EACH SHRUB AND GROUNDCOVER SPECIES WITH ENGINEER PRIOR TO COMMENCING PLANTING.

TREES, SHRUBS AND GROUNDCOVER PROCUREMENT

CONTRACTOR SHALL BE RESPONSIBLE FOR CONTRACT GROW, AT THE CONTRACTOR'S EXPENSE, ALL THE PLANTS LISTED ON THE PLANT LEGEND. CONTRACTOR SHALL PROVIDE TO THE CITY AN INVOICE OF ALL THE LISTED PLANTS THAT WILL BE CONTRACT GROWN AND/OR RESERVED.

SCALE: 1 : 20

0' 10 20 40 80

COBBLESTONE PAVING.
SEE DETAIL F, SHEET 50

INTEGRAL COLOR PCC MEDIAN PAVING.
SEE DETAIL F, SHEET 50

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
KATHLEEN M. MCKERNIN, LS 02/13/2023

LICENSED LANDSCAPE ARCHITECT
KATHLEEN M. McKERNIN
Renewal Date 10/31/23
License No. 5960
STATE OF CALIFORNIA

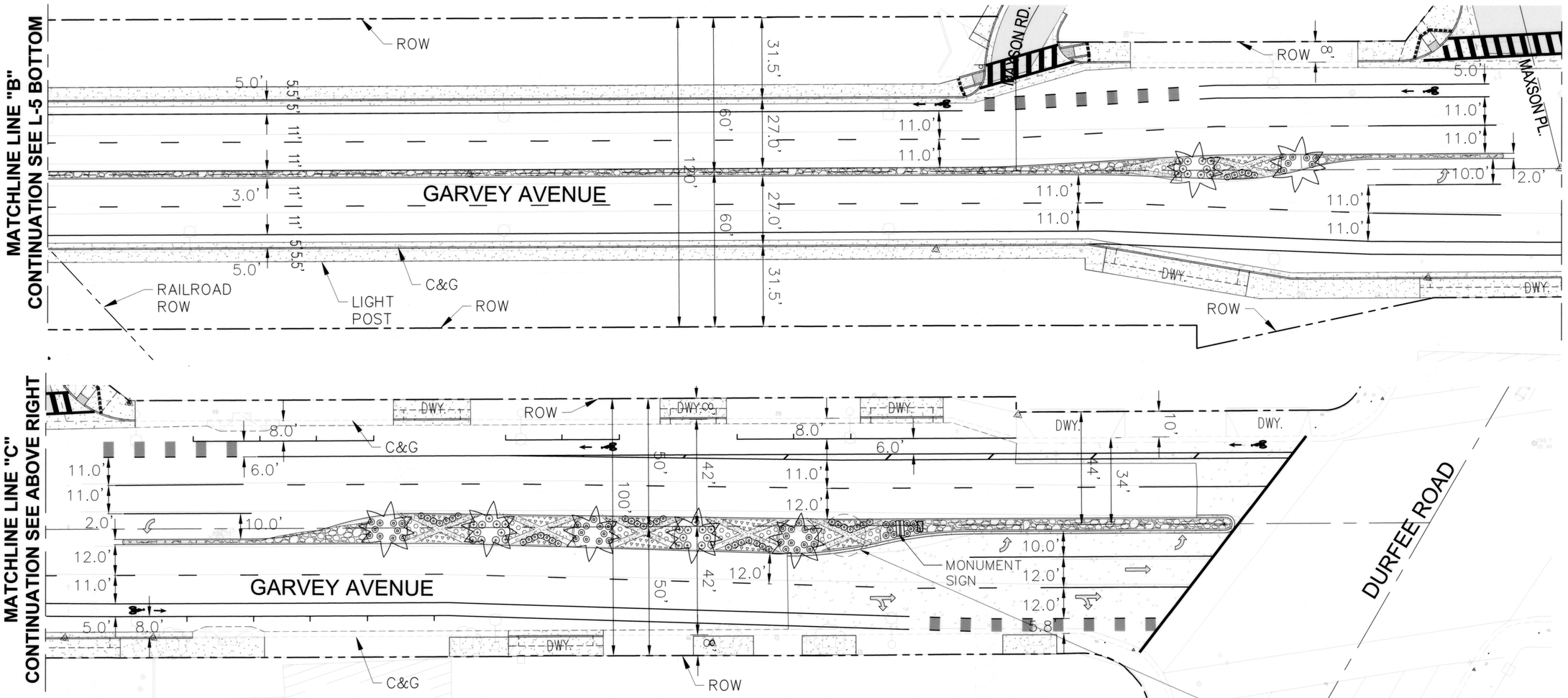
CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
LEE TORRES, P.E. DATE
CITY ENGINEER
REVIEWED AND RECOMMENDED BY DATE 4-20-23
GUILLERMO PEREZ

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
PLANTING PLAN
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: KM
	DRAWN BY: KM
SCALE AS SHOWN	CHECKED BY: XX
PLAN NUMBER	L-5
SHEET 49 OF 53	



PLANT LEGEND

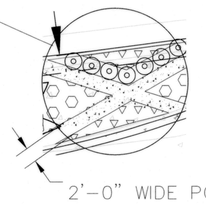
SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	HEIGHT	WIDTH	QTY	NOTES	WATER USE WUCOLS
TREES									
	PHOENIX DACTYLIFERA 'MEDJOOL'	DATE PALM	18' BTH	AS SHOWN	20'	20'	12	STANDARD DIAMOND TRIMMED TRUNK DETAIL:C SHEET: 50	LOW
SHRUBS									
	CALISTEMON C. 'LITTLE JOHN'	LITTLE JOHN DWARF BOTTLEBRUSH	5 GALLON	36" O.C.	3'	3'	90	DETAIL:B SHEET: 50	LOW
	ALOE STRIATA	CORAL ALOE	5 GALLON	18" O.C.	12"-18"	2'	76	DETAIL:B SHEET: 50	LOW
	ANIGOZANTHOS 'BUSH RANGER'	DWARF RED KANGAROO PAWS	5 GALLON	30" O.C.	3'	2'	54	DETAIL:A SHEET: 50	LOW
GROUNDCOVER									
	SEDUM NUSSBAUMERIANUM 'ORANGE DELIGHT'	ORANGE DELIGHT SEDUM	FLATS	9" O.C..	6'-8'	9"	42	DETAIL:A, SHEET: 50	LOW
	SENECIO SERPENS	BLUE CHALKSTICKS	FLATS	20" O.C.	<1'	2'-3'	17	DETAIL: A, SHEET: 50	LOW

GENERAL PLANTING NOTES

1. CONTRACTOR SHALL VERIFY EXACT LOCATIONSOF TREES IN MEDIAN WITH ENGINEER PRIOR TO INSTALLATION. CONTRACTOR SHALL NOTIFY ENGINEER IF THERE IS A CONFLICT WITH EXISTING/PROPOSED UTILITY STRUCTURE, ESPECIALLY SOUTHERN CALIFORNIA EDISON FACILITIES.
2. CONTRACTOR SHALL CHALK LAYOUT SHRUB MASSES AND GROUNDCOVERS WITHIN THE PLANTING AREAS AND VERIFY WITH THE ENGINEER PRIOR TO INSTALLATION
3. CONTRACTOR SHALL FURNISH AND INSTALL 3-INCH LAYER OF REDWOOD CHIPS, MEDIUM GRIND, AS TOP DRESSIN ALL SHRUB AND GROUNDCOVER AREAS. REDWOOD CHIPS AVAILABLE THROUGH RECYCLED WOOD PRODUCTS (877) GROW-RWP hank@wpmulch.com
4. ALL PLANTING BACKFILL AMENDMENTS SHALL BE SUPPLEMENTED WITH 'TRI-C HUMATE PLUS' AND 'MYCO PAK' MANUFACTURED BY TRI-C (909) 590-1790 https://www.tri-corganics.com/
5. KEEP REDWOOD CHIPS 6 INCHES CLEAR FROM TREE TRUNK AND SHRUB STEM
6. QUANTITIES SHOWN ON LEGEND ARE FOR CONVENIENCE ONLY, CONTRACTOR SHALL VERIFY EXACT QUANTITY OF EACH SHRUB AND GROUNDCOVER SPECIES WITH ENGINEER PRIOR TO COMMENCING PLANTING.

TREES, SHRUBS AND GROUNDCOVER PROCUREMENT

CONTRACTOR SHALL BE RESPONSIBLE FOR CONTRACT GROW, AT THE CONTRACTOR'S EXPENSE, ALL THE PLANTS LISTED ON THE PLANT LEGEND. CONTRACTOR SHALL PROVIDE TO THE CITY AN INVOICE OF ALL THE LISTED PLANTS THAT WILL BE CONTRACT GROWN AND/OR RESERVED.



SCALE: 1 : 20

0 10 20 40 80

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:

CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
Kathleen M. McKernin 02/13/2023
KATHLEEN M. MCKERNIN, LS

LICENSED LANDSCAPE ARCHITECT
KATHLEEN M. MCKERNIN
Registered Date 10/31/23
License No. 5628
STATE OF CALIFORNIA

\\REFS\el monte logo.png

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:

LEE TORRES, P.E. DATE
CITY ENGINEER

REVIEWED AND RECOMMENDED BY DATE 4-20-23
GUILLERMO PEREZ

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION

PLANTING PLAN

GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: KM
SCALE AS SHOWN	DRAWN BY: KM
	CHECKED BY: XX
PLAN NUMBER	L-6
SHEET 50 OF 53	

Drawing Name: C:\2021\2021 Projects\...\Plans\L-6 Planting Plan.dwg
XREF Dwg: ...
Plotted: ...

NOTES:

1. CONTRACTOR SHALL VERIFY SIZES AND TYPE OF COBBLESTONES WITH CITY ENGINEER PRIOR TO PURCHASING.
2. CONTRACTOR SHALL VERIFY LOCATION OF COBBLESTONE PAVING WITH CITY ENGINEER PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL CONSTRUCT AND SUBMIT AN APPROX. 16 S.F. SAMPLE OF COBBLESTONE PAVING TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
4. PCC FOR COBBLESTONE CONCRETE BED SHALL BE CLASS 560-E-2500, 4" MAX. SLUMP, CURED AT 28 DAYS WITH ADMIXTURE OF COLOR "TAN" MATCHING GENERAL COLOR OF COBBLESTONE.
5. WIRE BRUSH ALL JOINTS AFTER INSTALLATION OF THE ROCKS. AFTER CONCRETE HAS SET, CLEAN RESIDUE FROM SURFACE ROCKS WITH WATER BLASTING.
6. GAP BETWEEN COBBLESTONES SHALL NOT EXCEED 1-1/4". FILL GAP WITH PEA GRAVEL MIXED CONCRETE UP TO $\frac{2}{3}$ OF COBBLESTONE. CONCRETE MIX SHALL BE PER NOTE 4.
7. PCC FOR INTEGRAL COLOR CONCRETE SHALL BE PER SPECIFICATIONS. BRICKFORM LIQUID COLOR APPLICATION SHALL BE PER MANUFACTURER'S SPECIFICATIONS.

(1) ROUND COBBLESTONE, "MEXICAN BEACH PEBBLE--BUFF COLOR" FROM SOUTHWEST BOULDER AND STONE, SIZE 5"-8" DIA. AND HT.
NO MORE 50% OF ANY ONE SIZE
NO BROKEN PIECES ALLOWED
PRESS COBBLESTONES INTO CONCRETE BED AND TIGHTLY SPACE TOGETHER. PLACE COBBLESTONES WITH FLAT SIZE UP.
(877) SWB-ROCK
www.southwestboulder.com

(2) 4" THICK INTEGRAL COLOR PCC PAVING ON 95% COMPACTED SUB-GRADE
COLOR: BRICKFORM LIQUID COLOR COFFEE--LC2165
FINISH: MEDIUM SAND
PCC COLOR MIXING RATE:
BRICKFORM LIQUID COLOR MIX RATE SHALL BE EQUIVALENT TO THE POWDER COLOR MIX RATE OF 4 BAGS PER CUBIC YARD
https://www.solomoncolors.com/brickform.php#gsc.tab=0

(3) 4" LAYER OF PEA GRAVEL MIXED CONCRETE BED. SEE NOTE 4

(4) 95% COMPACTED SUB-GRADE

(5) PCC ROAD CURB

(6) ROADWAY SURFACE

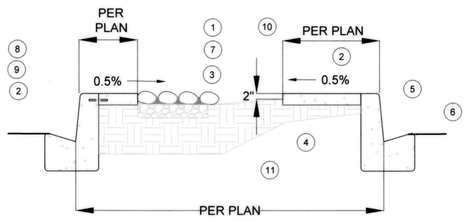
(7) FILL GAP WITH PEA GRAVEL MIXED CONCRETE UP TO $\frac{2}{3}$ OF COBBLESTONE. SEE GENERAL NOTE NO. 6.

(8) COLD JOINT

(9) 9" SPEED DOWEL @48"

(10) FINISH GRADE

(11) IMPORTED CLASS A TOPSOIL



F MEDIAN PAVING AND COBBLESTONE
SCALE:NTS

NOTES:
1. CONTRACTOR SHALL INSTALL PER MANUFACTURERS RECOMMENDATIONS
2. TOP OF METAL EDGE SHALL ALWAYS BE FLUSH WITH ADJACENT PAVING
3. ALL METAL SHALL BE BR- BRONZE DURAFLEX FINISH UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL NOTE THAT ALL GRADE/SLOPE SHALL DRAIN AWAY FROM THE HOMEOWNER'S HOME
5. DECOMPOSED GRANITE WILL BE 1/2" BELOW ADJACENT CONCRETE PAVING.

(1) PLANTING AREA SHALL RECEIVE 3" OF ORGANIC MULCH

(2) FINISH GRADE UNDER D.G. SHALL BE 4" BELOW TOP OF HEADER BOARD

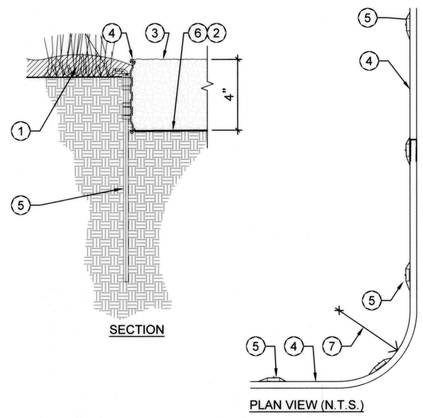
(3) 3-1/2" DEEP STABILIZED DECOMPOSED GRANITE

(4) ALUMINUM EDGING- $\frac{3}{16}$" x4"

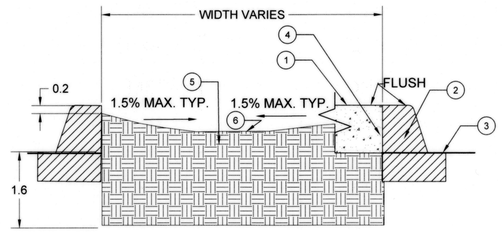
(5) 12" ALUMINUM STAKE TOP LOCK INTO PERFORMED LOOPS ON THE EDGING.

(6) INSTALL LANDSCAPE WEED BARRIER GEOTEXTILE FABRIC UNDER DG PER MANUFACTURERS SPECIFICATIONS.

(7) REFER TO MANUFACTURERS RECOMMENDATIONS FOR MINIMUM RADIUS



E METAL EDGING @ D.G., PAVING, PLANTING AREAS
SCALE: 3"=1'-0"



TYPICAL MEDIAN CROSS SECTION

LEGEND

(1) COBBLESTONE/PCC PAVING WHERE OCCURS PER PLAN

(2) NEW/EXISTING PCC CURB PER CIVIL ENG. PLAN

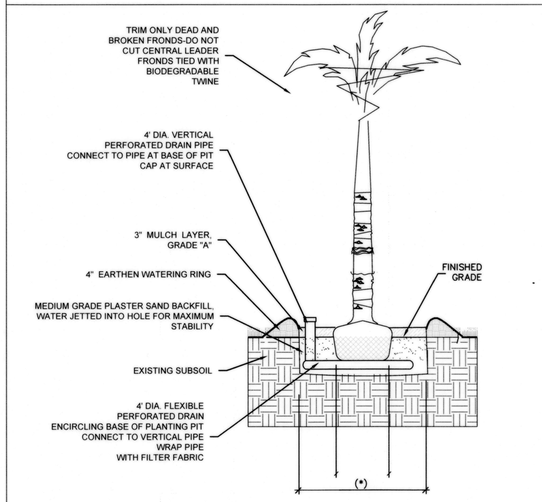
(3) FINISH SURFACE OF ROADWAY

(4) COLD JOINT

(5) REMOVE EXISTING NATIVE SOIL, COLOR PCC PAVING AND SUB-BASE FURNISH AND INSTALL CLASS A TOP SOIL

(6) FINISH GRADE

D TYPICAL MEDIAN SECTION
SCALE:NTS



NOTES:

PLANTING HOLE SHALL BE 2X THE DIAMETER OF THE ROOT BALL.

ROOT BALL SHALL BE 1"-2" HIGHER THAN FINISHED GRADEWHEN PLANTED.

ALL PALMS TO BE BOXED.
CONTRACTOR SHALL HAVE A SOIL AGRONOMIST PREPARE A DETAILED SOIL ANALYSIS AT TREE PLANTING LOCATIONS AND INSTALL PALMS FOLLOWING THE RECOMMENDATIONS OF THE REPORT.

APPLY "OSMOCOTE" SLOW-RELEASE FERTILIZER ON SURFACE OF PLANTING PIT PER MANUFACTURER'S DIRECTIONS

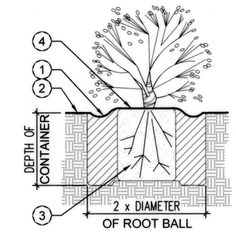
C PALM TREE PLANTING
NTS

(1) A SHALLOW BASIN 2" DEEP SHALL BE FORMED AROUND ROOTBALL BELOW FINISH GRADE

(2) FINISH GRADE

(3) ROOTBALL

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

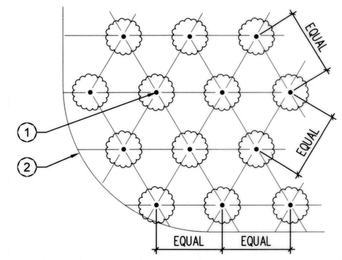


B SHRUB PLANTING
SCALE: NTS

NOTES:
1. ALL PLANTS SHALL BE PLANTED AT EQUAL SPACING (TRIANGULAR) UNLESS OTHERWISE INDICATED ON PLANS.
2. INFILL PLANTS AS REQUIRED TO MAINTAIN SPACING AT IRREGULAR EDGES.
3. FOR ADDITIONAL INFORMATION REFER TO PLANTING NOTES.

(1) TYPICAL PLANT SPACING VARIES - SEE PLANT LEGEND AND/OR PLANS

(2) EDGE OF PLANTING AREA



A TRIANGULAR SPACING
SCALE: NTS

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
Kathleen M. McKernin 02/13/2023
KATHLEEN M. MCKERNIN, LS

LICENSED LANDSCAPE ARCHITECT
KATHLEEN M. MCKERNIN
Renewal Date 10/31/23
License No. 5650
STATE OF CALIFORNIA

\\KREFS\el monte logo.png

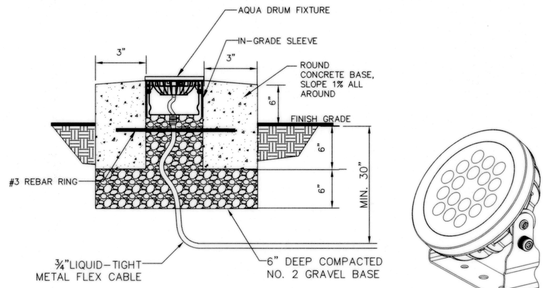
CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
LEE TORRES, P.E. DATE
CITY ENGINEER
REVIEWED AND RECOMMENDED BY DATE 4-2023
GUILLERMO PEREZ

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
PLANTING DETAILS AND NOTES
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: KM
SCALE AS SHOWN	DRAWN BY: KM
	CHECKED BY: XX
PLAN NUMBER	L-7
SHEET 51 OF 53	



MANUFACTURER; ACCLAIM LIGHTING
CONTACT (323) 213-4626
EMAIL: INFO@ACCLAIMLIGHTING.COM

NOTES
1. VERIFY EXACT LOCATION WITH ENGINEER PRIOR TO INSTALLATION.
2. INSTALLATION SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS.
3. INSTALL 4' FROM CENTER OF TREE.
4. USE SONO TUBE FOR FORMING.

AT FIRST "BURN-IN", WHEN THE FIXTURE IS "HOT", RE-TORQUE THE LENS RETAINER RING TO "SEAT" THE SILICONE GASKET. (THIS WILL CREATE A VACUUM WHEN FIXTURE COOLS)

DETAIL A – AQUA DRUM SQ
NOT TO SCALE

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC) (2021 EDITION) AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC)(2021 EDITION). STREET LIGHTING POLES, PULL BOXES AND FOUNDATIONS SHALL CONFORM TO CALTRANS STANDARD PLANS (2018 EDITION)
2. ALL NEW PULL BOXES SHALL BE NO. 5 UNLESS OTHERWISE NOTED ON THE PLANS.
3. UNLESS OTHERWISE INDICATED, ALL STREET LIGHTING SYSTEM CONDUITS SHALL BE AND PLACED BEHIND BACK-OF-CURB 30" UNDER FINISHED SURFACE. ALL CONDUITS SHALL HAVE BUSHINGS AND SEALANT AT THE ENDS. SEE EQUIPMENT SCHEDULE FOR CONDUIT DETAILS.
4. PROVIDE TANDEM 5 AMP FUSES IN EACH PULL BOX ADJACENT TO THE LIGHT POLE.
5. ALL PULL BOXES SHALL CONTAIN A 2" DEEP LAYER OF SMALL ROCKS AT THE BOTTOM FOR DRAINAGE.
6. COORDINATE ALL ELECTRICAL CONNECTIONS WITH SOUTHERN CALIFORNIA EDISON (S.C.E.). CONTACT S.C.E. SERVICE PLANNER, JOSEPH MOTTOLA (323) 720-5298 PRIOR TO START WORK.
7. MAXIMUM DISTANCE BETWEEN POLE AND PULL BOX SHALL NOT EXCEED 5'.
8. STREET LIGHT LUMINAIRES SHALL BE OF THE CUT-OFF DESIGN AND SHALL HAVE INTEGRAL PHOTO-ELECTRIC CONTROLS.
9. STREET LIGHTING CONDUCTORS BE STRANDED COPPER CONDUCTOR, TYPE THWN/THHN INSULATION, UL APPROVED FOR 600 VOLT OPERATION UNLESS OTHERWISE SPECIFIED HEREON.
10. UNLESS OTHERWISE SPECIFIED, 2#6 CONDUCTORS (1-RED, 1-BLACK) AND 1#8 GROUND (1-GREEN) SHALL BE INSTALLED IN ALL STREET LIGHTING CIRCUIT CONDUITS.
11. ELECTROLIERS SHALL BE WIRED WITH 3#10 (1-RED, 1-BLACK, 1-GREEN) WIRES FROM THE PULL BOX TO THE LUMINAIRE. CONDUIT SHALL BE 1" GALVANIZED RIGID CONDUIT (GRC) AND HAVE 18" MINIMUM COVER RUNNING BETWEEN PULL BOX AND POLE.
12. ALL ELECTRICAL EQUIPMENT, INCLUDING LUMINAIRES, METAL CONDUITS, ETC., SHALL BE BONDED.
13. WARNING: SAFETY CLEARANCE SHALL BE OBTAINED DAILY FROM THE AFFECTED UTILITY COMPANY BEFORE DOING ANY WORK WITHIN CLOSE PROXIMITY TO ANY OVERHEAD OR UNDERGROUND UTILITY LINE.
14. THE LOCATION OF A STREET LIGHT MAY BE ADJUSTED UP TO 5 FEET, ONLY TO AVOID AN OBSTRUCTION SUCH AS DRIVEWAYS, CATCH BASINS ETC. ANY DEVIATION EXCEEDING 5 FEET MUST HAVE THE APPROVAL OF THE ENGINEER.
15. FIVE FOOT CLEARANCE TO BE MAINTAINED FROM FIRE HYDRANT. FOUR FOOT CLEARANCE TO BE MAINTAINED FROM TOP OF SLOPE AT COMMERCIAL DRIVEWAY, AND 2 FOOT CLEARANCE FROM RESIDENTIAL DRIVEWAY.
16. ALL CONCRETE SIDEWALK WORK SHALL BE REPAIRED AND REPLACED PER EL MONTE SPECIFICATIONS.

CONSTRUCTION NOTES

[1] INSTALL NEW TYPE III-BF SERVICE CABINET WITH FOUNDATION PER CALTRANS STANDARD PLAN ES-2E WITH 1-120/240V SERVICE METER AND 1-200 AMP-2P MAIN CIRCUIT BREAKER. SEE LIGHTING EQUIPMENT SCHEDULE FOR ADDITIONAL CIRCUIT BREAKERS.

[2] INSTALL CONTROLLER CABINET AND AQUA DRIVER CONTROLLERS AS SHOWN ON PLAN AND EQUIPMENT SCHEDULE. INSTALL THE QUANTITY OF CONTROLLERS AS INDICATED.

[3] INSTALL 3" CONDUIT PER S.C.E. REQUIREMENT. S.C.E. TO INSTALL SERVICE WIRES TO SERVICE FEED POINT. COORDINATE WITH S.C.E. SERVICE PLANNER AT (800) 655-4555 PRIOR TO START OF WORK.

[4] REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED

[5] REMOVE EXISTING PULL BOX AND INSTALL NEW PULL BOX.

[6] INSTALL STREET LIGHT 51" FROM CENTER OF POLE TO CURB FACE. SEE DETAIL B.

[7] TRIM OR REMOVE TREE TO PROVIDE CLEARANCE FOR STREET LIGHT.

[8] [RC] EXISTING POWER POLE MOUNTED LUMINAIRE AND LUMINAIRE MAST ARM COMPLETE. [RL] LUMINAIRE TO NEW STREET LIGHT POLE AS SHOWN ON PLAN.

[9] [RC] EXISTING STREET LIGHT POLE, ATTACHED EQUIPMENT, AND FOUNDATION COMPLETE. [RL] LUMINAIRE TO NEW STREET LIGHT POLE AS SHOWN ON PLAN.

[BC] INSTALL PULL BOX IN EXISTING CONDUIT RUN.

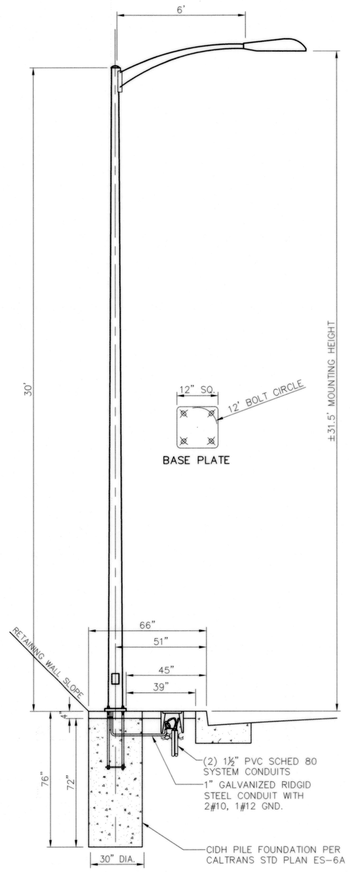
[CC] CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED.

[RC] EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.

[RL] RELOCATE EQUIPMENT.

EQUIPMENT SCHEDULE

SYMBOL	QUANTITY	DESCRIPTION	MANUFACTURER/ CATALOG NUMBER
	2	TYPE III-BF UNDERGROUND SERVICE CABINET WITH FOUNDATION PER CALTRANS STANDARD PLAN ES-2E WITH 1-120/240V SERVICE METER AND 1-200 AMP-2P MAIN CIRCUIT BREAKER. CONTRACTOR AND TEST BYPASS FACILITIES INSIDE THE CABINET. CONTRACTOR SHALL CONTACT S.C.E. SERVICE PLANNER JOSEPH MOTTOLA AT (323) 720-5298 FOR ELECTRICAL SERVICE CONNECTION.	
	37	PULL BOX SHALL BE CALTRANS NO. 5. PULL BOXES SHALL BE CONCRETE/COMPOSITE MATERIAL, OLD CASTLE OR AGENCY APPROVED EQUAL.	OLD CASTLE / CHRISTY N16
	3	PULL BOX SHALL BE CALTRANS NO. 6. PULL BOXES SHALL BE CONCRETE/COMPOSITE MATERIAL, OLD CASTLE OR AGENCY APPROVED EQUAL.	OLD CASTLE / CHRISTY N36
	27 8	30' (31.5' MOUNTING HEIGHT) ROUND TAPERED STEEL POLE WITH A 6' LUMINAIRE ARM. FOR POLE DETAILS, SEE DETAIL B AND CALTRANS STANDARD PLAN ES-6A. THE LUMINAIRE SHALL BE SALVAGED FROM THE REMOVED EXISTING STREET LIGHT POLE. IF A NEW LUMINAIRE IS USED, A NEW LED 82W LUMINAIRE WILL BE INSTALLED.	POLE: CALTRANS TYPE-15 LUMINAIRE: GE EVOLVE ERLH CAT. NO. ERLH-0-10-C3-40-A-GRAY
	19	RELOCATE EXISTING LED LUMINAIRE FROM EXISTING POLE TO BE REMOVED TO THE NEW POLE.	
	3 CABINETS 7 CONTROLLERS	TREE UP-LIGHTING CONTROLLER AND CONTROLLER CABINET.	CABINET: STRONGBOX/ LIGHT DUTY CABINET #LD-16SW CONTROLLER: ACCLAIM LIGHTING/ AQUA DRIVER 150 CONTROLLER
	26	NEW TREE IN-GROUND UP-LIGHT WITH IN-GROUND SLEEVE. INSTALL CONDUCTORS PER MANUFACTURERS INSTALLATION INSTRUCTIONS AND DETAIL A.	UP-LIGHT: ACCLAIM LIGHTING/ AQUA DRUM SQ
	2" - 390' 1½" - 3700'	NEW STREET LIGHTING 2" OR 1½" (SIZE AS INDICATED ON PLAN) PVC SCHEDULE 80 CONDUIT. ENDS OF CONDUITS TERMINATING IN PULL BOXES SHALL BE SUPPLIED WITH SWEEPS AND BUSHINGS. UNLESS OTHERWISE INDICATED, THE CONDUIT WILL CONTAIN 2#6 CONDUCTORS (1-RED,1-BLACK) AND 1#8 GROUND (1-GREEN).	
	550'	¾" WATERPROOF FLEXIBLE METAL CONDUIT.	LIQUID-TIGHT FLEX METAL CONDUIT/ #6203-22-GN
	270'	1" GALVANIZED RIGID STEEL CONDUIT WITH 2#10 AND 1#12 GND. SEE DETAIL B.	



DETAIL B
CALTRANS TYPE 15 STANDARD
NOT TO SCALE

LEGEND:

- EXISTING PULL BOX TO REMAIN.
- PROPOSED CALTRANS NEW #5 STREET LIGHTING PULL BOX.
- PROPOSED CALTRANS NEW #6 STREET LIGHTING PULL BOX.
- EXISTING STREET LIGHTNG PULL BOX TO BE REMOVED.
- EXISTING STREET LIGHT TO REMAIN.
- EXISTING TRAFFIC SIGNAL SAFETY LIGHT TO REMAIN.
- EXISTING UTILITARIAN LIGHT ON POWER POLE TO REMAIN.
- PROPOSED STREET LIGHT.
- EXISTING UTILITARIAN LIGHT ON POWER POLE TO BE REMOVED.
- EXISTING STREET LIGHT TO BE REMOVED.
- EXISTING POWER POLE TO REMAIN.
- PROPOSED IN-GROUND TREE UP-LIGHT.
- PROPOSED PVC SCHEDULE 80 CONDUIT. UNLESS OTHERWISE INDICATED, CONDUIT SIZE AND THE NUMBER OF CONDUCTORS ARE TO BE 1½" DIAMETER WITH 2#6 CONDUCTORS (1-RED,1-BLACK) AND 1#8 GROUND.
- PROPOSED LIQUID-TIGHT FLEX METAL ¾" CONDUIT.
- OH — EXISTING OVERHEAD STREET LIGHTING WIRES TO REMAIN.
- OH — EXISTING OVERHEAD STREET LIGHTING WIRES TO BE REMOVED.
- EXISTING STREET LIGHTING CONDUIT TO BE ABANDONED. REMOVE WIRES.

811 Know what's below. Call before you dig.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526-7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER WILLIAM F. YOUNG No. C 35715 Exp. 09/30/23 CIVIL STATE OF CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23 DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
STREET LIGHTING & TREE UP-LIGHTING PLAN
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT
CIP No. 884

DATE 02/13/2023	DESIGNED BY: SB
SCALE AS SHOWN	DRAWN BY: MN
	CHECKED BY: WY
PLAN NUMBER	E-1
SHEET 52 OF 53	

DRAWING NAME: J:\CAD\CLIENT DWGS\EL MONTE\884\ELEC\884-ELEC-E1-02.dwg
PLOT DATE: Mar 07, 2023 - 9:56am
PLOTTED BY: wyee

CONSTRUCTION NOTES

1. INSTALL NEW TYPE III–BF SERVICE CABINET WITH FOUNDATION PER CALTRANS STANDARD PLAN ES–2E WITH 1–120/240V SERVICE METER AND 1–200 AMP–2P MAIN CIRCUIT BREAKER. SEE LIGHTING EQUIPMENT SCHEDULE FOR ADDITIONAL CIRCUIT BREAKERS.
2. INSTALL CONTROLLER CABINET AND AQUA DRIVER CONTROLLERS AS SHOWN ON PLAN AND EQUIPMENT SCHEDULE. INSTALL THE QUANTITY OF CONTROLLERS AS INDICATED.
3. INSTALL 3" CONDUIT PER S.C.E. REQUIREMENT. S.C.E. TO INSTALL SERVICE WIRES TO SERVICE FEED POINT. COORDINATE WITH S.C.E. SERVICE PLANNER AT (800) 655–4555 PRIOR TO START OF WORK.
4. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED
5. REMOVE EXISTING PULL BOX AND INSTALL NEW PULL BOX.
6. INSTALL STREET LIGHT 51" FROM CENTER OF POLE TO CURB FACE. SEE DETAIL B.
7. TRIM OR REMOVE TREE TO PROVIDE CLEARANCE FOR STREET LIGHT.
8. RC EXISTING POWER POLE MOUNTED LUMINAIRE AND LUMINAIRE MAST ARM COMPLETE. RL LUMINAIRE TO NEW STREET LIGHT POLE AS SHOWN ON PLAN.
9. RC EXISTING STREET LIGHT POLE, ATTACHED EQUIPMENT, AND FOUNDATION COMPLETE. RL LUMINAIRE TO NEW STREET LIGHT POLE AS SHOWN ON PLAN.

BC INSTALL PULL BOX IN EXISTING CONDUIT RUN.

CC CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED.

RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.

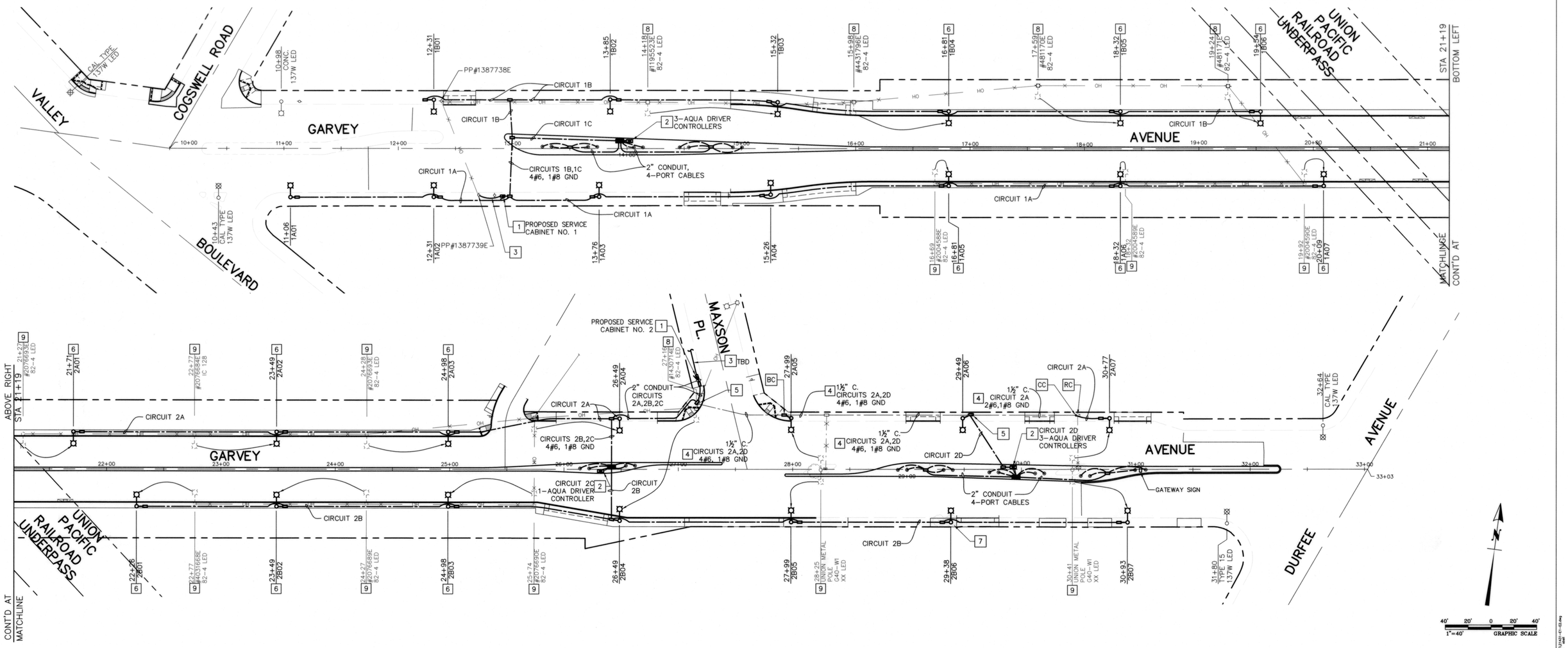
RL RELOCATE EQUIPMENT.

120/240 1PH SERVICE CABINET NO. 1 (*EACH CONDUIT TO CONTAIN 1#8 GROUND)					
CIRCUIT	TYPE	CONDUCTORS*	CIRCUIT BREAKER	LOAD	EQUIPMENT
1A	STREET LIGHTING	2#6	240V–2P–20A	574W	7 – 82W LED LUMINAIRES,
1B	STREET LIGHTING	2#6	240V–2P–20A	492W	6 – 82W LED LUMINAIRES,
1C	TREE UPLIGHTNG	2#6	120V–1P–20A	180W	10 – 18W LED UPLIGHTS (3 AQUA DRIVER CONTROLLERS), 1 – 120V GFCI AC OULET

120/240 1PH SERVICE CABINET NO. 2 (*EACH CONDUIT TO CONTAIN 1#8 GROUND)					
CIRCUIT	TYPE	CONDUCTORS*	CIRCUIT BREAKER	LOAD	EQUIPMENT
2A	STREET LIGHTING	2#6	240V–2P–20A	574W	7 – 82W LED LUMINAIRES
2B	STREET LIGHTING	2#6	240V–2P–20A	574W	7 – 82W LED LUMINAIRES
2C	TREE UPLIGHTNG	2#6	120V–1P–20A	72W	4 – 18W LED UPLIGHTS (1 AQUA DRIVER CONTROLLER), 1 – 120V GFCI AC OULET
2D	TREE UPLIGHTING	2#6	120V –1P–20A	216W	12 – 18W LED UPLIGHTS (3 AQUA DRIVER CONTROLLERS), 1 – 120V GFCI AC OULET

LEGEND:

- EXISTING PULL BOX TO REMAIN.
- PROPOSED CALTRANS NEW #5 STREET LIGHTING PULL BOX.
- PROPOSED CALTRANS NEW #6 STREET LIGHTING PULL BOX.
- EXISTING STREET LIGHTNG PULL BOX TO BE REMOVED.
- EXISTING STREET LIGHT TO REMAIN.
- EXISTING TRAFFIC SIGNAL SAFETY LIGHT TO REMAIN.
- EXISTING UTILITARIAN LIGHT ON POWER POLE TO REMAIN.
- PROPOSED STREET LIGHT.
- EXISTING UTILITARIAN LIGHT ON POWER POLE TO BE REMOVED.
- EXISTING STREET LIGHT TO BE REMOVED.
- EXISTING POWER POLE TO REMAIN.
- PROPOSED IN–GROUND TREE UP–LIGHT.
- PROPOSED PVC SCHEDULE 80 CONDUIT. UNLESS OTHERWISE INDICATED, CONDUIT SIZE AND THE NUMBER OF CONDUCTORS ARE TO BE 1½" DIAMETER WITH 2#6 CONDUCTORS (1–RED,1–BLACK) AND 1#8 GROUND.
- PROPOSED LIQUID–TIGHT FLEX METAL ¾" CONDUIT.
- OH EXISTING OVERHEAD STREET LIGHTING WIRES TO REMAIN.
- OH EXISTING OVERHEAD STREET LIGHTING WIRES TO BE REMOVED.
- EXISTING STREET LIGHTING CONDUIT TO BE ABANDONED. REMOVE WIRES.



811 Know what's below. Call before you dig.

REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
TEL (714) 526–7500
www.cwecorp.com

UNDER THE SUPERVISION OF:
WILLIAM F. YOUNG 02/13/2023

REGISTERED PROFESSIONAL ENGINEER WILLIAM F. YOUNG No. C 35715 Exp. 09/30/23 CIVIL STATE OF CALIFORNIA

CITY OF EL MONTE BUILT ON THE SAN GABRIEL TRAIL INCORPORATED 1912 CALIFORNIA

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
11333 VALLEY BOULEVARD
EL MONTE, CA 91731
(626) 580-2058
www.ci.el-monte.ca.us

APPROVED BY:
REVIEWED AND RECOMMENDED BY GUILLERMO PEREZ
4-20-23 DATE

CITY OF EL MONTE
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
STREET LIGHTING & TREE UP-LIGHTING PLAN
GARVEY AVENUE
STREET AND DRAINAGE IMPROVEMENT PROJECT

CITY OF EL MONTE PROJECT CIP No. 884
DATE 02/13/2023
DESIGNED BY: SB
DRAWN BY: MN
SCALE AS SHOWN
CHECKED BY: WY
PLAN NUMBER E-2
SHEET 53 OF 53

DRAWING NAME: Z:\ACTIVE_Design\CIP_Design\CIP 884 - 4 - E2.dwg
PLOT DATE: Apr 20, 2023 - 9:56am PLOTTED BY: wyan