

**BENCHMARK**

BASIS OF COORDINATES: NAD83 (FT)

STATION	NORTHING	EASTING	DESCRIPTION
28	1841557.819	6317148.094	BRASS DISC LS 6000 IN CURB
34	1849582.548	6321533.446	BRASS DISC LS 6000 IN SIDEWALK

GRID BEARING BETWEEN STA 28 AND 34 = N 28° 39' 21" E

VERTICAL CONTROL: NAVD88 (FT)

CONTROL POINT	ELEVATION	DESCRIPTION
34	431.09	2 3/4" BRASS DISC LS 6000 IN SIDEWALK ON THE NORTH SIDE OF CENTRAL AVENUE AT LEMON GROVE AVENUE 9' EAST OF TRACKS

SUPPLEMENTAL CONTROL: RTK GPS SURVEY

POINT	NORTHING	EASTING	ELEV	DESCRIPTION
102	1848993.99	6321395.19	427.21	SCRIBE X IN SIDEWALK
103	1848450.74	6321313.03	417.57	60D SPIKE IN DIRT
104	1848010.98	6321060.35	401.11	SCRIBE X IN CURB
105	1847541.21	6320832.94	396.72	60D SPIKE IN AC BERM
106	1846883.03	6320402.52	376.47	60D SPIKE IN DIRT
2984	1849528.72	6321460.94	430.87	MAG NAIL IN AC

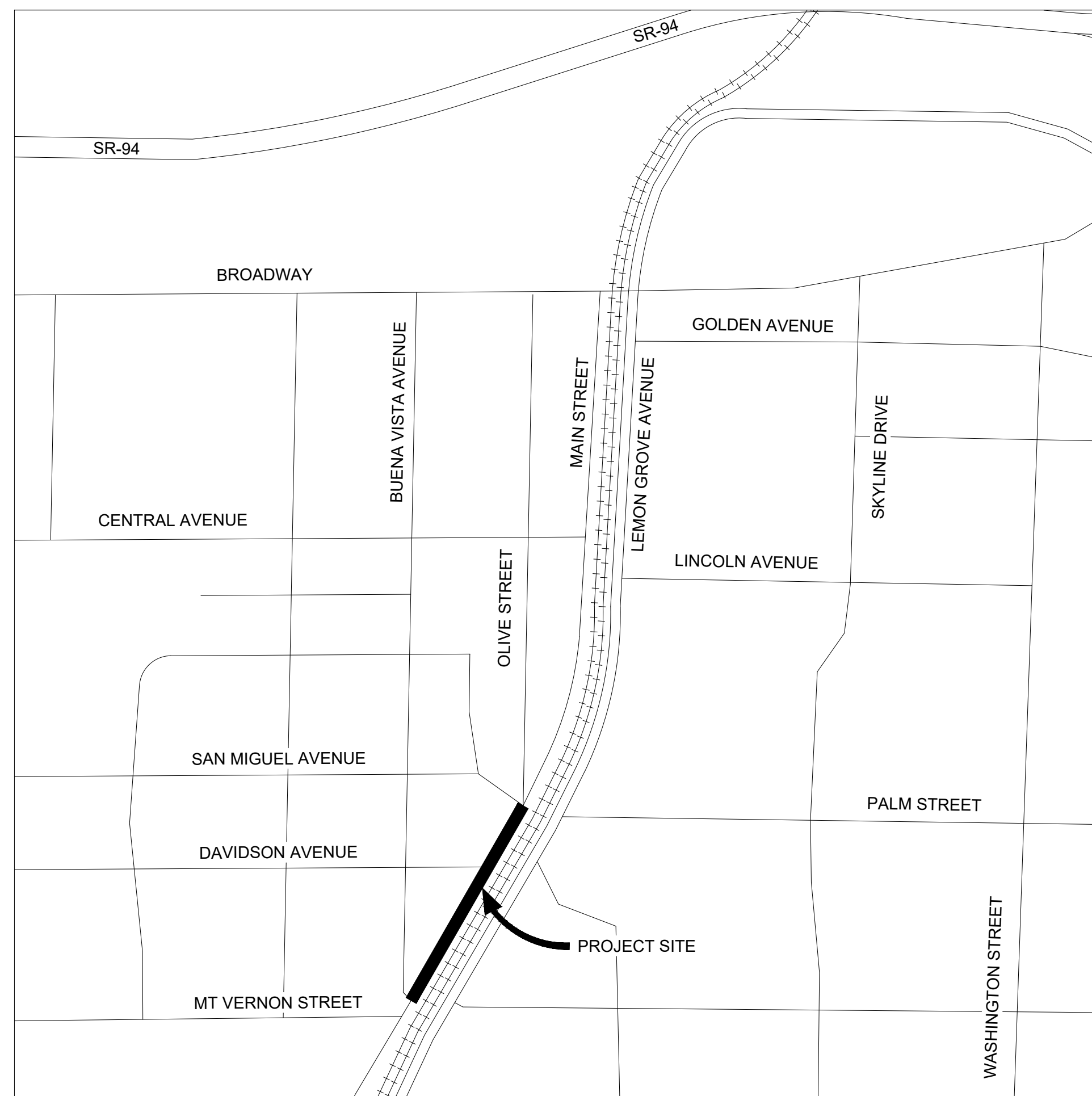
**ABBREVIATIONS**

A	A-VALUE, AREA	MTS	METROPOLITAN TRANSIT SYSTEM
ABN	ABANDONED	MUP	MULTI-USE PATH
AC	ASPHALT CONCRETE	N	NORTH
ACP	ASPHALT CONCRETE PIPE	N.T.S	NOT TO SCALE
APN	ASSESSORS PARCEL NUMBER	NOI	NOTICE OF INTENT
BC	BEGIN CURVE	OHE	OVERHEAD ELECTRIC
BCR	BEGIN CURB RETURN	PB	PULLBOX
BEG	BEGINNING	PC	POINT OF CURVE
BFP	BACK FLOW PREVENTER	PCC	POINT OF CONTINUOUS CURVE
BO	BLOW OFF	PL	PROPERTY LINE
BVC	BEGINNING OF VERTICAL CURVE	PP	POWER POLE
C&G	CURB & GUTTER	PT	POINT OF TANGENT
CL, C	CENTERLINE	PVC	POLYVINYL CHLORIDE
CONC	CONCRETE	PVI	POINT OF VERTICAL INTERSECTION
D.G.	DECOMPOSED GRANITE	PVMT	PAVEMENT
E	EAST	R	RADIUS
ECR	END CURB RETURN	R/W	RIGHT OF WAY
EL	ELEVATION	RCP	REINFORCED CONCRETE PIPE
ELEC	ELECTRICAL	RR	RAIL ROAD
EP	EDGE OF PAVEMENT	SD	STORM DRAIN
EVC	END OF VERTICAL CURVE	SDRSD	SAN DIEGO REGIONAL STANDARD DRAWINGS
EX	EXISTING	SS	SANITARY SEWER
FG	FINISHED GRADE	SSMH	SANITARY SEWER MANHOLE
FH	FIRE HYDRANT	STA	STATION
FL	FLOWLINE	STRC	STRUCTURE
FS	FINISHED SURFACE	SWLK	SIDEWALK
GAS	GAS	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
HMA	HOT MIX ASPHALT	T	TANGENT LENGTH
HORIZ	HORIZONTAL	TC	TOP OF CURB
INV	INVERT	TEL	TELEPHONE
IRR	IRRIGATION	TS	TRAFFIC SIGNAL
K	K-VALUE	TYP	TYPICAL
L	LENGTH	VAR	VARIES
LAND	LANDSCAPING	VC	VERTICAL CURVE
MAX	MAXIMUM	W	WEST
ME	MATCH EXISTING	W.O	WORK ORDER
MH	MANHOLE	WQID	WASTE DISCHARGE IDENTIFICATION
MIN	MINIMUM	WM	WATER METER
MON	MONUMENT	WTR	WATER
		WV	WATER VALVE

IMPROVEMENT PLANS FOR:

# CONNECT MAIN STREET PHASE 3

LEMON GROVE, CA



**VICINITY MAP**

NOT TO SCALE



**WORK TO BE DONE**

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE SPECIFICATIONS AND STANDARD DRAWINGS.

**STANDARD SPECIFICATIONS:**

- STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION "GREEN BOOK" (MOST CURRENT CITY ADOPTED VERSION).
- CALIFORNIA DEPARTMENT OF TRANSPORTATION, "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2014 EDITION"
- CALIFORNIA DEPARTMENT OF TRANSPORTATION "U.S. CUSTOMARY STANDARD SPECIFICATIONS, 2018 EDITION"

**STANDARD DRAWINGS:**

- SAN DIEGO REGIONAL STANDARD DRAWINGS, (MOST CURRENT CITY ADOPTED VERSION)
- CALIFORNIA DEPARTMENT OF TRANSPORTATION "U.S. CUSTOMARY STANDARD PLANS, 2018 EDITION"
- SAN DIEGO WATER AGENCIES' STANDARDS, "WAS" (CURRENT EDITION)

**LEGEND**

PROPOSED AC PAVING	
PROPOSED CONCRETE	
PROPOSED MULTI-USE PATH	
PROPOSED D.G. PEDESTRIAN TRAIL	
PROPOSED LANDSCAPING	
PROPOSED DISPERSION AREA	
PROPOSED EPOXY PEBBLE SURFACE	
CURB AND GUTTER	
EXISTING CONTOUR	--- (XXX) ---
PROPOSED CONTOUR	--- XXX ---
SAWCUT LINE	--- // ---
DAYLIGHT LINE	--- // ---
EXISTING PROPERTY LINE	--- - - - -
EXISTING RIGHT OF WAY LINE	--- - - - -
STREET CENTERLINE	--- - - - -
EXISTING CURB & GUTTER	--- - - - -
EXISTING EDGE OF PAVEMENT	--- - - - -
EXISTING WALL	--- - - - -
EXISTING GUARDRAIL	--- - - - -
EXISTING FENCE	--- - - - -
EXISTING ELECTRIC	--- E ---
EXISTING OHE	--- OHE ---
EXISTING CABLE	--- CABL ---
EXISTING GAS MAIN	--- G ---
EXISTING WATER MAIN	--- W ---
ABANDONED WATER MAIN	--- ABN-W ---
EXISTING WATER SERVICE	--- WS ---
EXISTING SEWER MAIN AND SSMH	--- SS ---
EXISTING STORM DRAIN	--- SD ---
PROPOSED STORM DRAIN	--- SD ---
EXISTING FIRE HYDRANT	--- W ---
PROPOSED FIRE HYDRANT AND WATER LATERAL BY HWD	--- W ---
PROPOSED 2" IRRIGATION SERVICE BY HWD, BACKFLOW PREVENTOR BY CONTRACTOR	--- W ---
EXISTING CATENARY POLE	--- O ---
EXISTING SURVEY MONUMENT	--- O ---
EXISTING UTILITY POLE AND ANCHOR	--- O ---
EXISTING SIGN	--- O ---
EXISTING TRAFFIC SIGNAL POLE	--- O ---

**DECLARATION OF RESPONSIBLE CHARGE**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 670.3 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF LEMON GROVE AND HELIX WATER DISTRICT IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY FOR PROJECT DESIGN.

SCOTT CARTWRIGHT, RCE 77512  
CR ASSOCIATES  
3900 FIFTH AVENUE SUITE 310, SAN DIEGO, CA 92103

07/18/2023  
DATE

**SHEET INDEX**

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HELIX WATER DISTRICT  
ACCEPTED BY:  
TIMOTHY J. ROSS  
DATE  
S-22-022

**811** Know what's below. Call before you dig.  
SECTION 4216/4217 OF THE STATE OF CA GOV CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. CALL AT LEAST TWO DAYS BEFORE YOU DIG.

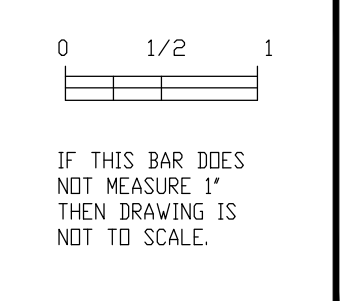
CONNECT MAIN STREET PHASE 3 TITLE SHEET			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 01 OF 37 SHEETS			
FOR CITY ENGINEER*		DATE 7/20/23	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	CRA		
1848-6321 NAD83 COORDINATES			
206-1755 & 210-1755 LAMBERT COORDINATES			
AS-BUILTS			
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
R23-02-01			

**CONSTRUCTION CHANGE TABLE**

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

**BENCHMARK**

POINT	NORTHING	EASTING	ELEV	DESCRIPTION



**STREET DATA TABLE**

STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

FINAL CONSTRUCTION DRAWINGS



**GENERAL NOTES**

- APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A NOTICE TO PROCEED HAS BEEN ISSUED.
- THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE CITY OF LEMON GROVE DOES NOT AUTHORIZE THE CONTRACTOR TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, A LAND SURVEYOR SHALL REPLACE SUCH MONUMENTS WITH APPROPRIATE MONUMENTS. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF LEMON GROVE ENGINEERING DIVISION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION AT THEIR OWN EXPENSE.
- IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TOLL FREE 1-800-422-4133, TWO DAYS BEFORE YOU DIG.
- THE CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT GRADING AND/OR CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCES CONTROL BOARD AND THE CITY OF LEMON GROVE MUNICIPAL CODE AND STORM WATER STANDARDS.
- PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARK-OUTS AND SURVEYING, A PRE-CONSTRUCTION MEETING WILL BE HELD WITH THE CITY OF LEMON GROVE ENGINEERING DIVISION.
- DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS A CONSTRUCTION CHANGE IS APPROVED BY THE CITY ENGINEER OR THE CHANGE IS REQUIRED BY THE CITY INSPECTOR.
- AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE RESIDENT ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT BY THE CITY OF LEMON GROVE.
- A CAL/OSHA PERMIT IS REQUIRED FOR EXCAVATIONS DEEPER THAN 5' AND FOR SHORING AND/OR UNDERPINNING. CONTRACTOR TO PROVIDE A COPY OF OSHA PERMIT TO THE CITY.

**HELIX WATER DISTRICT NOTES**

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT HELIX WATER DISTRICT 48 HOURS PRIOR TO COMMENCING WORK AT (619) 596-3860 AND UNDERGROUND SERVICE ALERT FOR LOCATION OF EXISTING WATER FACILITIES AT 1-800-422-4133.
- CONTRACTOR TO PROTECT ALL EXISTING HELIX WATER DISTRICT FACILITIES AND SHALL BE FINANCIALLY RESPONSIBLE FOR ANY DAMAGE TO HELIX WATER DISTRICT FACILITIES AS A RESULT OF HIS/HER OPERATION. HELIX WATER DISTRICT SHALL BE NOTIFIED IMMEDIATELY TO REPAIR ANY DAMAGE. CONTRACTOR TO PROVIDE CONTINUOUS WATER SERVICE TO ALL WATER ACCOUNTS SHOWN OR NOT SHOWN ON THESE PLANS DURING ALL PHASES OF CONSTRUCTION.
- APPROVAL/REVIEW OF PLANS BY HELIX WATER DISTRICT DOES NOT CONSTITUTE RESPONSIBILITY FOR ACCURACY OF INFORMATION NOR LOCATIONS OF ANY EXISTING UTILITIES.
- HELIX WATER DISTRICT WILL ADJUST AND/OR RELOCATE NECESSARY EXISTING WATER FACILITIES TO A STANDARD LOCATION, FINISHED GRADE OR IN CONFLICT WITH THE PROJECT AS SHOWN ON THE PLANS, APPROXIMATELY SIX WEEKS AFTER COORDINATION/NOTIFICATION FROM THE CONTRACTOR.
- ALL REQUIRED UNDERGROUND UTILITY RELOCATIONS OR ADJUSTMENTS SHALL BE INSTALLED BEFORE CONSTRUCTION OF CURBS, CONCRETE GROSS GUTTERS, SIDEWALK OR SURFACING OF STREETS.
- THE CITY AGREES THAT IF THEY, THEIR EMPLOYEES, AGENTS, OR ANY INDEPENDENT CONTRACTORS OR SUBCONTRACTORS SHOULD USE WATER OTHER THAN THROUGH AN AUTHORIZED WATER METER, DEVELOPER SHALL PAY A CHARGE, DETERMINED BY HELIX WATER DISTRICT, PER OCCURRENCE FOR SAID USE. SAID PAYMENT MAY BE DEDUCTED FROM ANY DEPOSIT DEVELOPER HAS WITH HELIX WATER DISTRICT.
- NO PERSON, OTHER THAN AN EMPLOYEE OR AGENT OF THE HELIX WATER DISTRICT, SHALL HAVE A RIGHT TO OPERATE ANY PART OF A HELIX WATER DISTRICT WATER DISTRIBUTION SYSTEM AND FIRE HYDRANTS. ANY PERSON WHO TAMPERS OR INTERFERES WITH ANY PART OR COMPONENT OF SAID SYSTEM, OR CAUSES OR PERMITS ANY ACT OF TAMPERING OR INTERFERING WITH THE SYSTEM, SHALL BE LIABLE FOR ANY INJURY OR DAMAGE CAUSED THEREBY OR RESULTING THERE FROM. A CHARGE, DETERMINED BY HELIX WATER DISTRICT, PER OCCURRENCE WILL BE IMPOSED ON ANY PERSON OR COMPANY WHO OPERATES ANY PART OF THE HELIX WATER DISTRICT WATER SYSTEM WITHOUT PROPER AUTHORIZATION.
- FOR WORK OVER EXISTING WATER FACILITIES, HEAVY EQUIPMENT (ABOVE H2O LOADING) SHALL NOT BE USED WHEN COVER OVER THE WATER MAIN IS LESS THAN 36 INCHES THROUGH ALL PHASES OF CONSTRUCTION, INCLUDING THE REMOVAL, OVER EXCAVATION, AND/OR INSTALLATION OF PAVEMENT SECTIONS, WITHOUT THE WRITTEN APPROVAL OF HELIX WATER DISTRICT.
- CONTRACTOR TO VERIFY THE LOCATIONS, BY POT HOLING, ALL WATER UTILITIES IN THE IMMEDIATE AREA OR AFFECTED BY THE WORK PRIOR TO COMMENCING WORK.
- THE EXISTING WATER MAINS SHALL BE SUPPORTED AND PROTECTED, AT EACH CROSSING, DURING ALL PHASES OF CONSTRUCTION. ALL AREAS OF DISTURBED SOIL AROUND THE EXISTING WATER MAIN SHALL BE BACKFILLED WITH DECOMPOSED GRANITE AROUND THE WATER MAIN COMPACTED TO 90% AND PER WATER AGENCIES' STANDARD.
- FOR NEW SEWER MAINS OR STORM DRAINS CROSSING BENEATH EXISTING WATER MAINS, CONTRACTOR SHALL PROTECT THE EXISTING MAIN PER WATER AGENCIES' STANDARD DRAWING WP-08 OR REPLACE THE EXISTING WATER MAIN WITH NEW PVC PIPE AT THE DISCRETION OF THE DISTRICT ENGINEER. PIPE REPLACEMENTS SHALL EXTEND A MINIMUM OF 2' BEYOND THE EDGE OF THE TRENCH WIDTH ON BOTH SIDES OF THE CROSSING. CONTRACTOR SHALL NOTIFY THE DISTRICT A MINIMUM OF 48 HOURS PRIOR TO CROSSING UNDER ANY EXISTING WATER MAIN AND SHALL COORDINATE THE INSPECTION OF ALL WORK RELATED TO THE PROTECTION OF EXISTING WATER FACILITIES WITH THE DISTRICT INSPECTOR.
- CONTRACTOR SHALL MAINTAIN A MINIMUM OF 36" COVER FROM TOP OF 48" TRANSMISSION MAIN TO FINISH GRADE THROUGH ALL PHASES OF CONSTRUCTION.
- UNLESS SHOWN ON THESE PLANS, PRIVATE WATER LINES AND OTHER PRIVATE UTILITIES (PROPOSED OR EXISTING) SHALL NOT RUN PARALLEL WITHIN A WATER LINE EASEMENT. PERPENDICULAR CROSSINGS ONLY AND SHALL BE PLACED IN A CASING AND SHALL BE SHOWN ON RECORD DRAWINGS. THE CASING SHALL BE CENTERED ON THE PUBLIC WATER LINE, 5' ON EITHER SIDE, AND ENCASED IN RED COLORED CONCRETE THE FULL LENGTH OF THE CASING.
- ALL WATER SERVICE LATERALS, FIRE SERVICE LATERALS, FIRE HYDRANT LATERALS, BLOW-OFF LATERALS AND WATER MAINS THAT CROSS ANY BIO-RETENTION SWALE, MUST BE WITHIN A HARDENED SURFACE (CONCRETE). PERMEABLE FINISHED SURFACE IMPROVEMENTS ARE PROHIBITED WITHIN 10 FEET OF ANY WATER FACILITIES.
- HELIX WATER DISTRICT WILL INSTALL THE PROPOSED IRRIGATION SERVICE APPROXIMATELY EIGHT (8) WEEKS AFTER RECEIPT OF ESTIMATED COSTS. CONTRACTOR TO INSTALL BACKFLOW PREVENTER AND CONNECT TO PRIVATE PLUMBING.

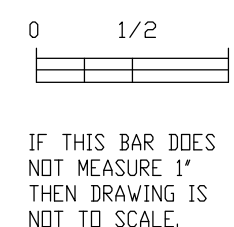
**MTS STANDARD CONSTRUCTION NOTES**

- A RIGHT OF ENTRY (ROE) PERMIT IS NECESSARY WHEN ENTERING MTS / SAN DIEGO AND ARIZONA EASTERN (SD&AE) RIGHT-OF-WAY (MTS R/W), INCLUDING AIRSPACE, FOR ANY PURPOSE. A ROE PERMIT IS ALSO REQUIRED WHEN WORKING IN PUBLIC RIGHT-OF-WAY OCCUPIED BY MTS / SD&AE FACILITIES. INFORMATION TO APPLY FOR ROE CAN BE OBTAINED FROM MTS'S WEBSITE AT: HTTP://WWW.SDMTS.COM/BUSINESS/PERMITS.ASP OR CONTACT MTS PERMITS AT MTSROW@SDMTS.COM. APPLICANT/CONTRACTOR IS REFERRED TO AS THE "PERMITTEE".
- CERTIFICATE OF INSURANCE FROM YOUR INSURANCE COMPANY FOR GENERAL LIABILITY, AUTOMOBILE LIABILITY, POLLUTION LIABILITY (IF APPLICABLE), PROFESSIONAL LIABILITY (IF APPLICABLE), AND WORKMAN'S COMPENSATION MUST BE SUBMITTED AND APPROVED BY MTS BEFORE THE PERMIT WILL BE PROCESSED. FULL INSURANCE REQUIREMENT GUIDELINES CAN BE ACCESSED FROM THE MTS WEBSITE NOTED ABOVE.
- MOST GENERAL LIABILITY INSURANCE POLICIES DO NOT COVER RAILROADS. ANY EXCLUSIONS RELATING TO PERFORMANCE OF OPERATIONS WITHIN THE VICINITY OF ANY RAILROAD, BRIDGE, TRESTLE, TRACK, ROADBED, TUNNEL, UNDERPASS, OR CROSSING MUST BE DELETED FROM ALL POLICIES BY ENDORSEMENT. ADDITIONALLY, A SEPARATE RAILROAD PROTECTIVE LIABILITY POLICY WILL MOST LIKELY BE REQUIRED AFTER PROJECT REVIEW AS DEEMED NECESSARY BY MTS.
- ALL PERSONNEL PERFORMING WORK ON MTS R/W, OR ENTERING MTS R/W SHALL REQUIRE PROPER MTS RAIL SAFETY TRAINING CERTIFICATION PRIOR TO ENTERING MTS R/W. ANY CONTRACTORS OR SUBCONTRACTORS PERFORMING WORK ON BEHALF OF PERMITTEE, SHALL BE DEEMED AS AGENTS OF PERMITTEE AND SHALL REQUIRE SAID TRAINING AS WELL. FOR TRAINING INFORMATION, EMAIL MTSROW@SDMTS.COM. TRAINING CERTIFICATION IS VALID FOR ONE YEAR AND IS CONFINED TO MTS/SD&AE FACILITIES ONLY.
- PERMITTEE SHALL PROVIDE MTS WITH AN APPROVED SET OF TRAFFIC CONTROL PLANS THAT CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND COMPLY IN PARTICULAR WITH PART 8 "TRAFFIC CONTROL FOR RAILROAD AND LIGHT RAIL TRANSIT GRADE CROSSINGS".
- IF PROJECT INVOLVES CASING SLEEVES UNDER RAILROAD TRACKS AND ACROSS MTS R/W, PERMITTEE SHALL ADHERE TO MTS JACK AND BORE DESIGN CRITERIA AND CONSTRUCTION NOTES.
- A PRE-CONSTRUCTION MEETING WILL BE REQUIRED WITH MTS/SDTI PRIOR TO WORK COMMENCING WITHIN MTS R/W. A WRITTEN NOTICE OF PLANNED START OF WORK MUST BE SUBMITTED TO MTS A MINIMUM OF FIVE (5) BUSINESS DAYS PRIOR TO WORK STARTING IN MTS R/W. ALL WORK WILL BE STOPPED AND PERMITTEE WILL NOT BE ALLOWED IN MTS R/W WITHOUT PROPER NOTIFICATION.
- PERMITTEE'S ON-SITE SUPERVISION SHALL RETAIN/MAINTAIN A FULLY EXECUTED COPY OF THE RIGHT OF ENTRY PERMIT AT ALL TIMES WHILE ON MTS R/W.
- SDTI RAIL FLAGGING WILL BE REQUIRED ANYTIME WORK IS WITHIN FIFTEEN (15) FEET OF ANY OPERABLE TRACK INCLUDING AIRSPACE OR AS DEEMED NECESSARY BY MTS. A SDTI FLAGPERSON / RIGHT-OF-WAY WORK REQUEST FORM MUST BE SUBMITTED TO SDTI A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO ANTICIPATED WORK. FORMS ARE ATTACHED TO THE ROE PERMIT OR CAN BE REQUESTED THROUGH MTS RIGHT OF WAY SERVICES.
- A SDTI TRACTION POWER SHUTDOWN MAY BE NECESSARY FOR THE WORK ZONE TO PROTECT AND MAINTAIN THE REQUIRED TEN (10) FOOT CLEARANCE FROM TROLLEY OVERHEAD HIGH VOLTAGE CATENARY SYSTEM (OCS). PERMITTEE SHALL SUBMIT A SDTI RED TAG/ TRACTION POWER REMOVAL REQUEST FORM TO SDTI AT LEAST THREE (3) BUSINESS DAYS PRIOR TO THE START OF WORK. POWER SHUTDOWNS SHALL ONLY BE ALLOWED DURING NON-OPERATING TROLLEY HOURS. FORMS ARE ATTACHED TO THE ROE PERMIT OR CAN BE REQUESTED THROUGH MTS RIGHT OF WAY SERVICES.
- PERMITTEE SHALL CONTACT AND SCHEDULE DIG-ALERT AND CABLE PIPE AND LEAK ("CPL") PRIOR TO ANY EXCAVATION IN MTS R/W. PERMITTEE SHALL NOTIFY MTS A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO THE SCHEDULED UTILITY MARKOUT REQUEST AND SHALL SUBMIT A SDTI FLAGPERSON / RIGHT-OF-WAY WORK REQUEST FORM. SDTI PERSONNEL SHALL ACCOMPANY CPL FOR ANY MARKOUT OF TROLLEY FACILITIES.
- PERMITTEE SHALL ADHERE TO CONSTRUCTION AND SAFETY STANDARDS REQUIRED BY MTS OF THEIR CONTRACTORS WHEN WORKING WITHIN MTS R/W.
- PERMITTEE SHALL PERFORM ALL WORK IN ACCORDANCE WITH APPLICABLE CALIFORNIA PUBLIC UTILITIES COMMISSION (CPUC) AND CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (CAL-OSHA) REGULATIONS, MTS LRT DESIGN CRITERIA, AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION (AREMA) STANDARD SPECIFICATIONS, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) GUIDELINES AND MTS, SDTI AND SD&IV OPERATIONS AND SAFETY POLICIES.
- PERMITTEE AGREES THAT NO WORK BY HIMSELF OR HIS AUTHORIZED AGENT WILL INTERFERE WITH RAILROAD/TROLLEY OPERATIONS.
- PERMITTEE AGREES TO COORDINATE ON A DAILY BASIS A REASONABLE ACCESS TO ALL MTS/SD&AE FACILITIES WITH CONTRACT OPERATORS, SDTI, AND SD&IV. SDTI TROLLEY OPERATIONS ARE GENERALLY FROM THE HOURS OF 4:00 A.M. TO 2:00 A.M. THE FOLLOWING DAY. SD&IV FREIGHT TRAINS NORMAL OPERATIONS ARE DURING NON- TROLLEY HOURS.
- PERMITTEE SHALL MAINTAIN SAFE PEDESTRIAN ACCESS TO ALL TROLLEY PLATFORMS AND BUS STOPS AT ALL TIMES. A MINIMUM FIVE (5) FOOT WIDE ACCESSIBLE PEDESTRIAN PATH THROUGH THE CONSTRUCTION SITE SHALL BE MAINTAINED AT ALL TIMES. THE CONSTRUCTION BOUNDARY SHALL CONSIST OF A TOP AND BOTTOM RAIL CONSTRUCTED OF PLASTIC PIPE, OSHA PLASTIC MESH, OR APPROVED EQUAL. YELLOW CAUTION TAPE IS NOT ACCEPTABLE.
- PERMITTEE SHALL NOT STORE EQUIPMENT, TOOLS, AND MATERIALS WITHIN FIFTEEN (15) FEET FROM TROLLEY OPERABLE TRACK AND WITHIN TWENTY-FIVE (25) FEET FROM FREIGHT TRACK OPERATIONS.
- PERMITTEE SHALL NOT USE OR STORE HAZARDOUS SUBSTANCES, AS DEFINED BY THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT, AS AMENDED ("CERCLA") OR PETROLEUM OR OIL AS DEFINED BY APPLICABLE ENVIRONMENTAL LAWS ON MTS R/W.
- NO VEHICULAR CROSSING OVER TRACKS SHALL BE INSTALLED OR USED BY PERMITTEE WITHOUT PRIOR WRITTEN PERMISSION OF RAILROAD.
- A WRITTEN NOTICE SHALL BE SUBMITTED TO MTS ONE (1) BUSINESS DAY AFTER WORK IS COMPLETED WITHIN MTS R/W. ANY ADDITIONAL WORK REQUIRED TO REPLACE OR REPAIR THE RAILROAD FACILITIES IN GOOD WORKING ORDER WILL BE THE PERMITTEE'S RESPONSIBILITY PRIOR TO RELIEF FROM MAINTENANCE WITHIN THE PERMIT AREA.
- PERMITTEE SHALL REMOVE ALL OF PERMITTEE'S TOOLS, EQUIPMENT, AND MATERIALS FROM RAILROAD PREMISES PROMPTLY UPON COMPLETION OF WORK AND SHALL RESTORE ALL FACILITIES, IMPROVEMENTS, LANDSCAPING, ETC., TO THEIR ORIGINAL CONDITION OR AS SHOWN ON PROJECT WORK SITE PLANS.

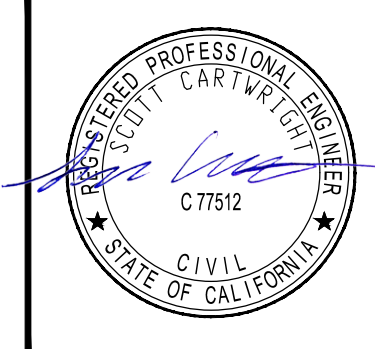
**CONSTRUCTION CHANGE TABLE**

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**BENCHMARK**

CAUTION!  
LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.



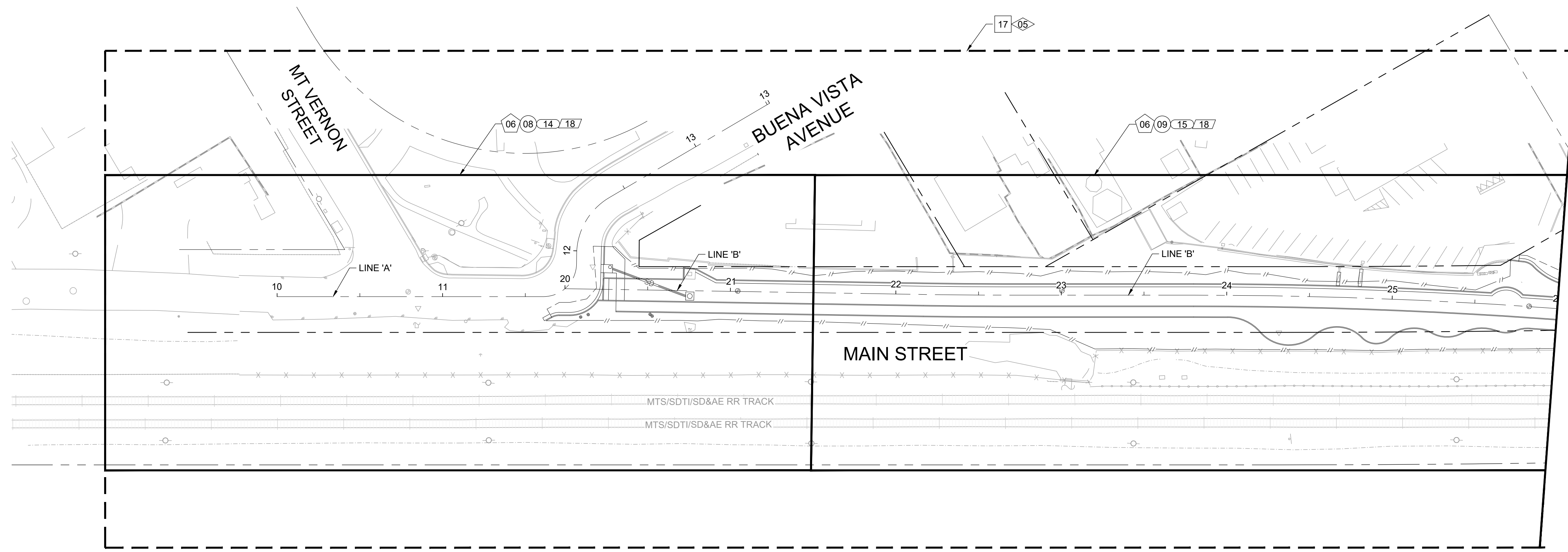
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STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

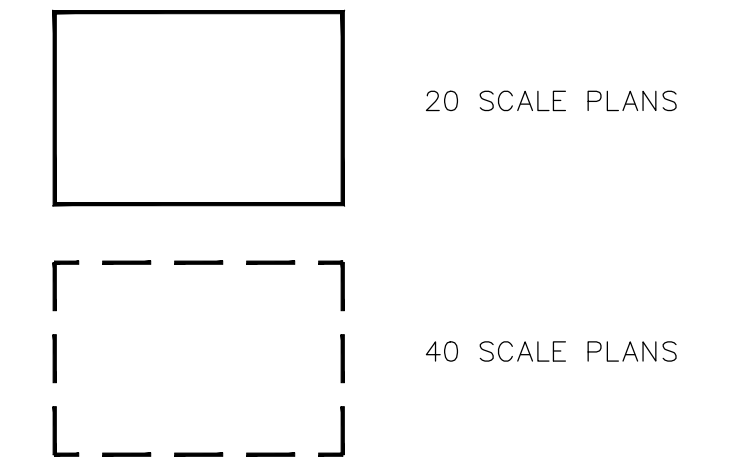
<b>GENERAL NOTES FOR:</b>			
<b>CONNECT MAIN STREET PHASE 3</b>			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 02 OF 37 SHEETS		DATE: 7/20/23	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	CRA		
AS-BUILTS			
CONTRACTOR _____ DATE STARTED _____		INSPECTOR _____ DATE COMPLETED _____	
		<b>R23-02-02</b>	

FINAL CONSTRUCTION DRAWINGS





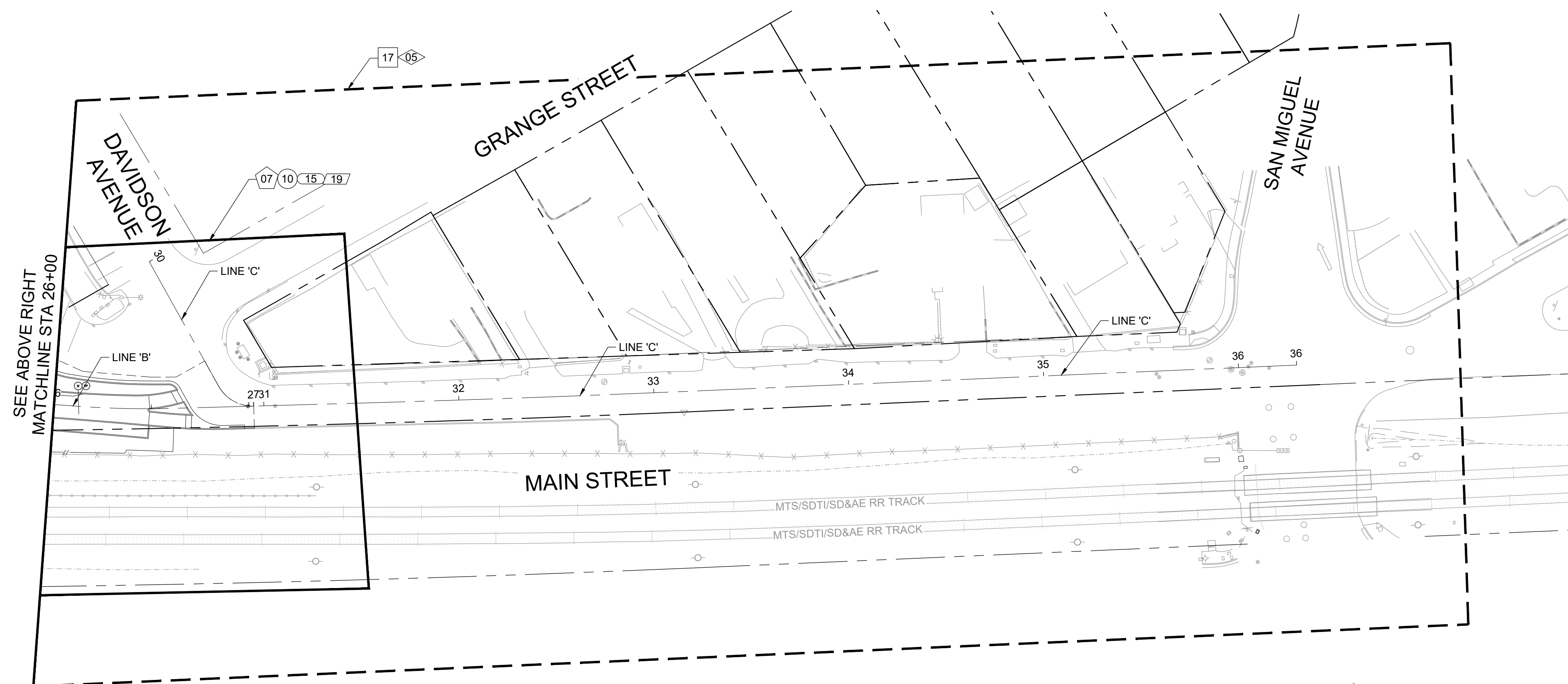
**LEGEND**



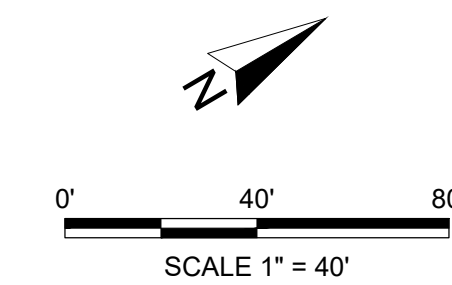
**SHEET TYPE**

- HORIZONTAL CONTROL PLANS
- DEMOLITION PLANS
- IMPROVEMENT PLANS
- STORM DRAIN & BMP PLANS
- SIGNING AND PAVEMENT MARKING PLANS
- TEMPORARY WATER POLLUTION CONTROL PLANS
- LIGHTING AND ELECTRICAL PLANS

MATCHLINE STA 26+00  
SEE BELOW LEFT



SEE ABOVE RIGHT  
MATCHLINE STA 26+00

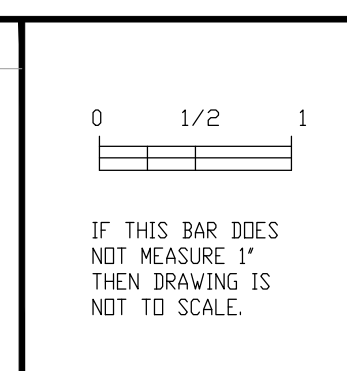


**KEY MAP FOR:**  
**CONNECT MAIN STREET  
PHASE 3**

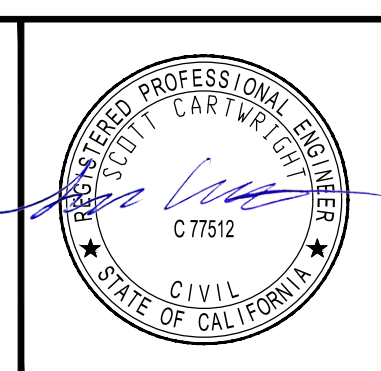
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 03 OF 37 SHEETS				
FOR CITY ENGINEER*		DATE		TM/TPM
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	CRA			
AS-BUILTS				1948-6321 NAD83 COORDINATES
CONTRACTOR				206-1755 & 210-1755 LAMBERT COORDINATES
INSPECTOR		DATE STARTED	DATE COMPLETED	R23-02-03

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK



**CAUTION!**  
LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

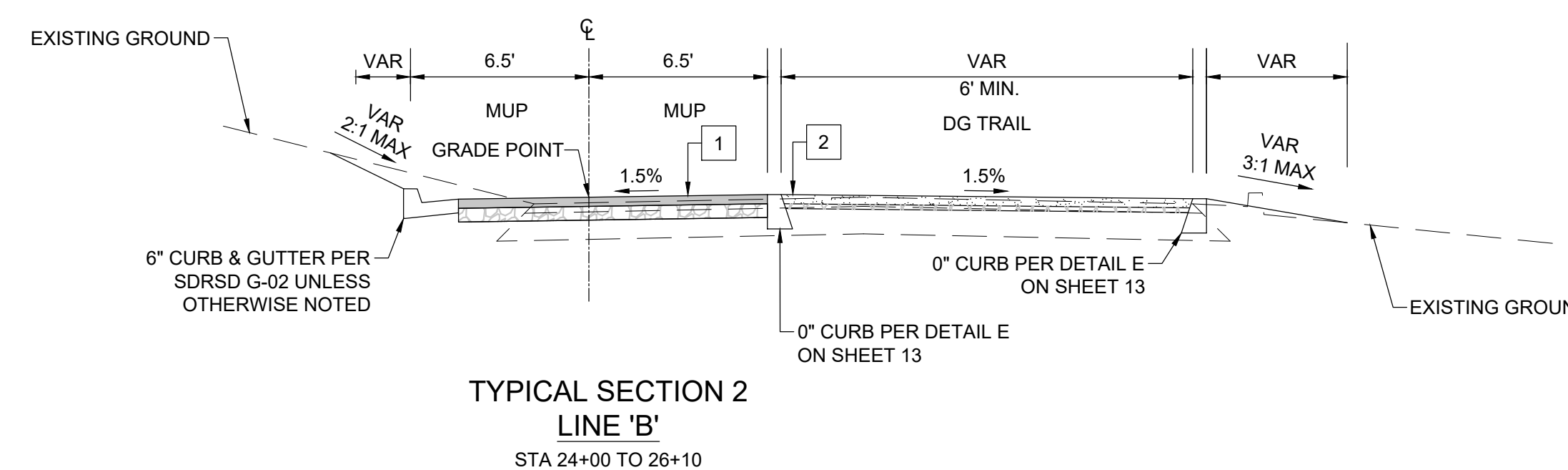
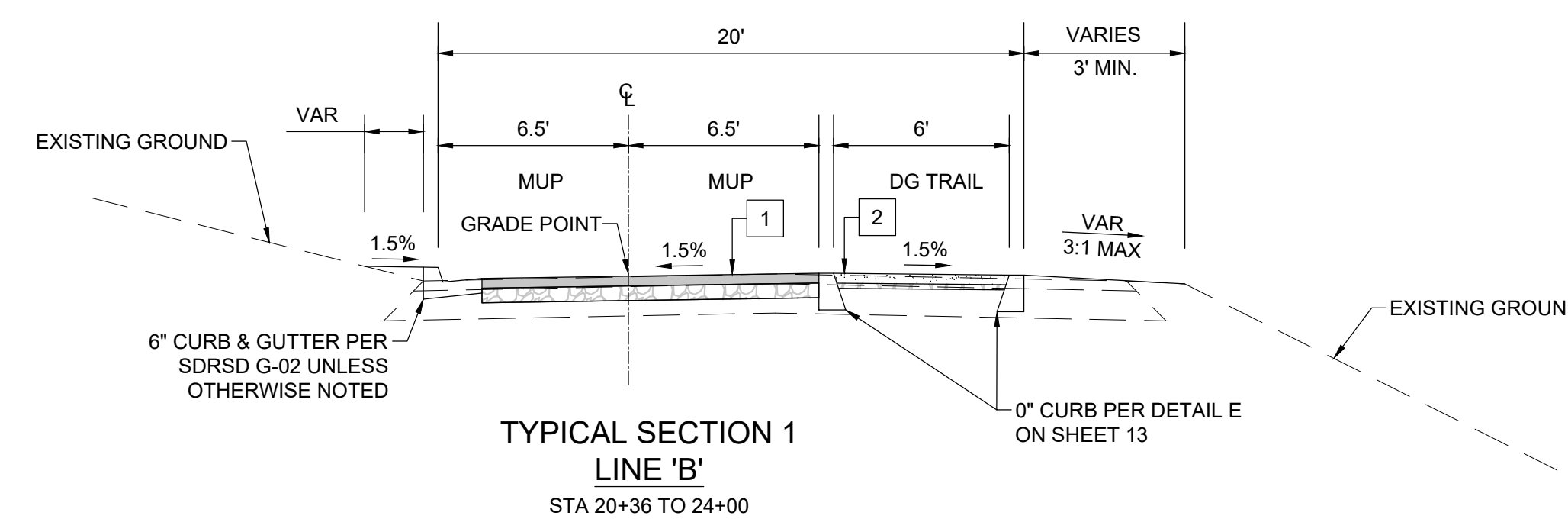


STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

FINAL CONSTRUCTION DRAWINGS

**LEGEND**

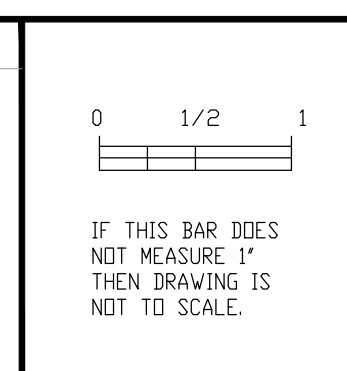
- 1 4" HMA  
4" CLASS 2 AGGREGATE BASE
- 2 4" DECOMPOSED GRANITE  
2" CLASS 2 AGGREGATE BASE PER LANDSCAPE PLANS



<b>TYPICAL SECTIONS FOR: CONNECT MAIN STREET PHASE 3</b>			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 04 OF 37 SHEETS			
FOR CITY ENGINEER*		7/20/23	TM/TPM
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	CRA		
AS-BUILTS			1848-6321 NAD83 COORDINATES
CONTRACTOR			206-1755 & 210-1755 LAMBERT COORDINATES
INSPECTOR			<b>R23-02-04</b>

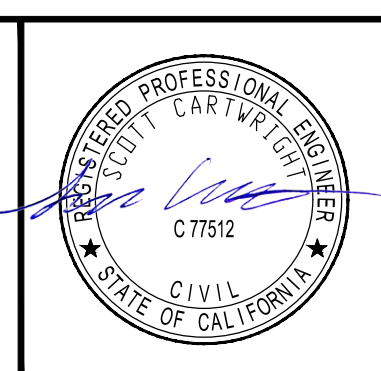
CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

<p style="text-align: center; font-weight: bold;">BENCHMARK</p>	<p style="font-size: x-small;">IF THIS BAR DOES NOT MEASURE 1' THEN DRAWING IS NOT TO SCALE.</p>
---	--



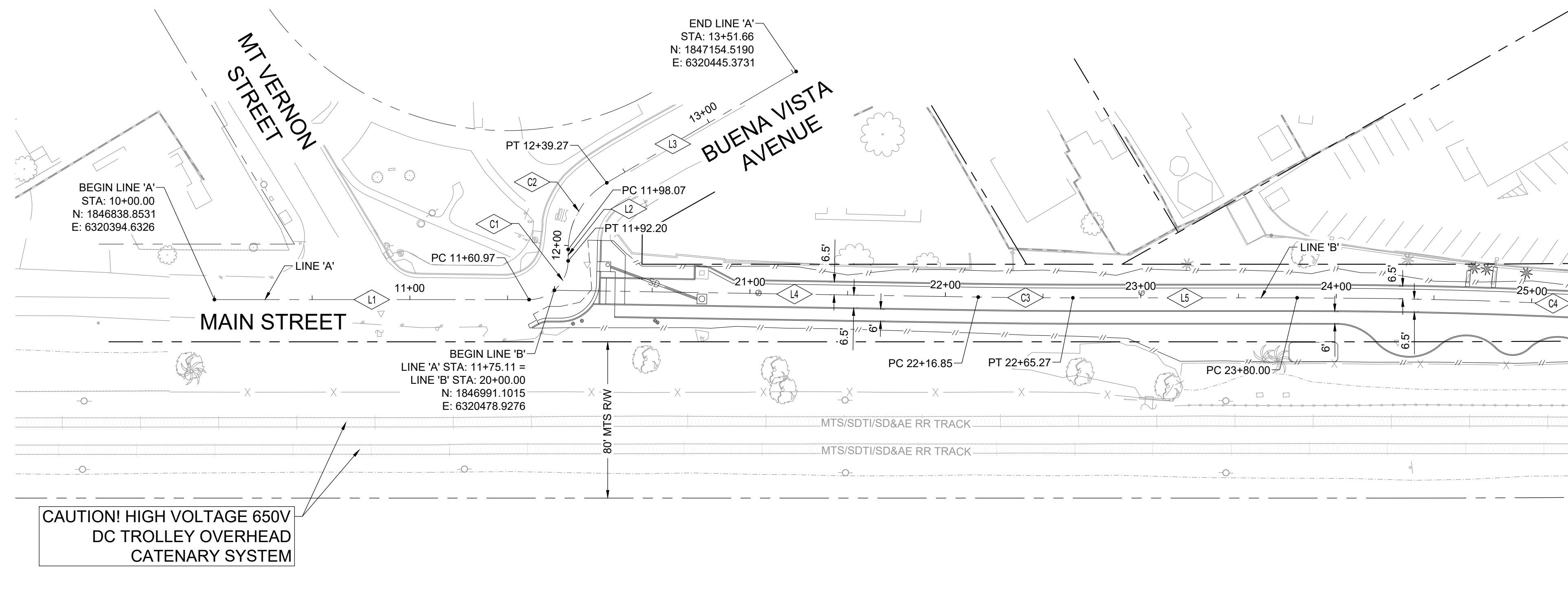
CAUTION!

LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.



STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

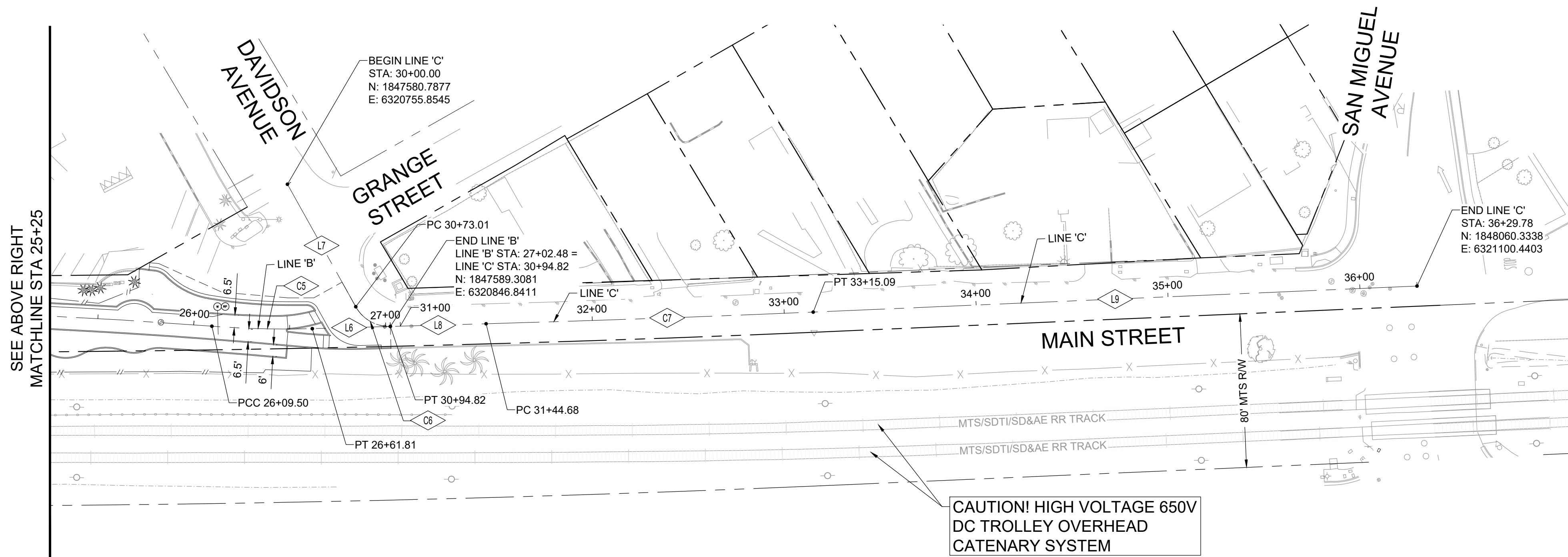




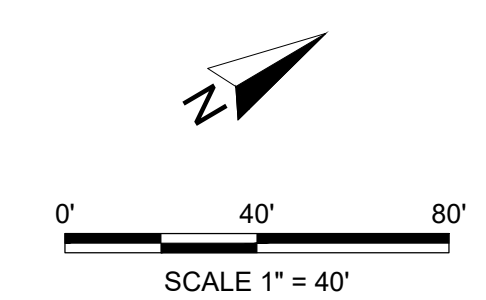
LINE 'A' - GEOMETRIC DATA					
◇	LENGTH	LINE/CHORD DIRECTION	R	T	DELTA
L1	160.97'	N30°32'58"E			
C1	31.23'	N14°10'56"W	20.00'	19.81'	89°27'49"
L2	5.87'	N58°54'51"W			
C2	41.20'	N29°24'31"W	40.00'	22.64'	59°00'40"
L3	112.39'	N00°05'49"E			

LINE 'B' - GEOMETRIC DATA					
◇	LENGTH	LINE/CHORD DIRECTION	R	T	DELTA
L4	216.85'	N31°28'28"E			
C3	48.43'	N31°00'43"E	3000.00'	24.21'	0°55'29"
L5	114.73'	N30°32'58"E			
C4	229.50'	N32°44'28"E	3000.00'	114.81'	4°22'59"
C5	52.31'	N31°56'07"E	500.00'	26.18'	5°59'40"
L6	40.67'	N28°56'18"E			

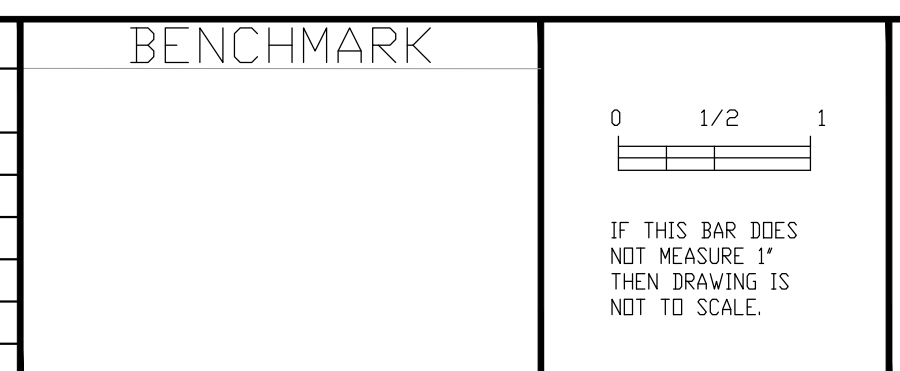
LINE 'C' - GEOMETRIC DATA					
◇	LENGTH	LINE/CHORD DIRECTION	R	T	DELTA
L7	73.01'	S88°35'25"E			
C6	21.81'	N60°10'26"E	20.00'	12.13'	62°28'17"
L8	49.86'	N28°56'18"E			
C7	170.41'	N28°30'36"E	11398.66'	85.21'	0°51'24"
L9	314.70'	N28°04'54"E			



HORIZONTAL CONTROL PLANS FOR:					
CONNECT MAIN STREET PHASE 3					
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 05 OF 37 SHEETS					
FOR CITY ENGINEER*		DATE		TM/TPM	
DESCRIPTION	BY	APPROVED	DATE	FILMED	
ORIGINAL	CRA				
AS-BUILTS					
CONTRACTOR _____ DATE STARTED _____					
INSPECTOR _____ DATE COMPLETED _____					
R23-02-05					



CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS



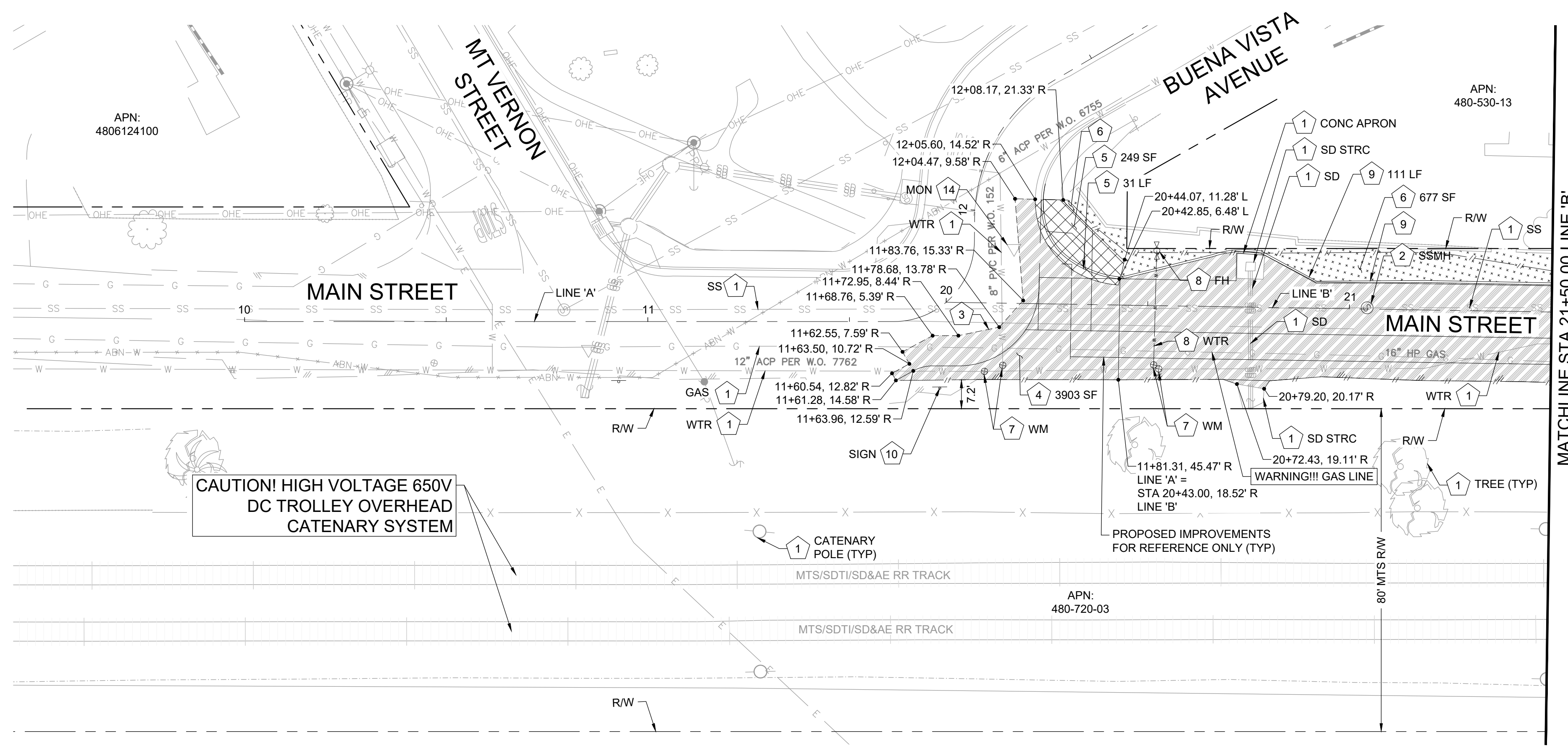
CAUTION!  
LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.



STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

FINAL CONSTRUCTION DRAWINGS





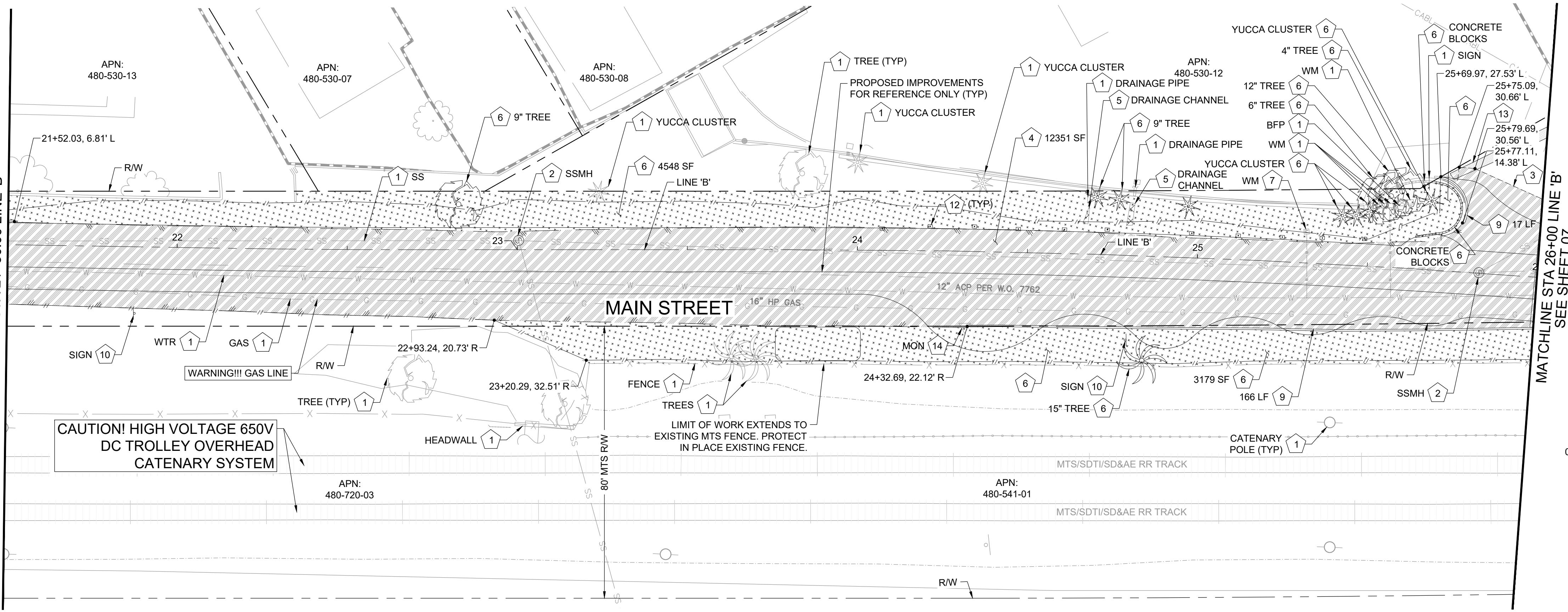
MATCHLINE STA 21+50.00 LINE 'B'  
SEE BELOW LEFT

**NOTE: STANDBY REQUIRED WHEN EXCAVATING WITHIN 10 FEET OF 16" HP GAS MAIN. HAND DIG ONLY.**

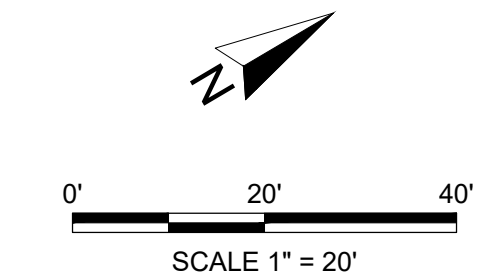
**LEGEND**

PROPERTY LINE	---
SAWCUT LINE	---
DAYLIGHT LINE	---
EXISTING FENCE LINE	---
EXISTING EDGE OF PAVEMENT	---
TREE TO BE PROTECTED IN PLACE	
TREE TO BE REMOVED	

- DEMOLITION NOTES**
- 1 PROTECT IN PLACE
  - 2 ADJUST TO FINISHED GRADE
  - 3 SAWCUT PER DETAIL A ON SHEET 13
  - 4 REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT AND AGGREGATE BASE
  - 5 REMOVE AND DISPOSE OF EXISTING CONCRETE SIDEWALK, CURB, MEDIAN CURB, GUTTER, AND AGGREGATE BASE
  - 6 REMOVE EXISTING VEGETATION, DEBRIS, AND OTHER MATERIAL IN CONFLICT WITH THE PROPOSED IMPROVEMENTS
  - 7 ADJUST TO FINISHED GRADE, BY OTHERS
  - 8 HWD TO REMOVE AND RELOCATE FIRE HYDRANT AND SERVICE. SEE IMPROVEMENT PLANS SHEET 08
  - 9 REMOVE EXISTING AC DIKE
  - 10 SEE SIGNING & PAVEMENT MARKING PLANS SHEET 17
  - 12 REMOVE AND DISPOSE OF IRRIGATION
  - 13 MILL EXISTING SPEED BUMP
  - 14 ALL SURVEY MONUMENTS AND POINTS SHALL BE REESTABLISHED AS INDICATED IN THE PLAN SET AND SHALL BE PER THE PROFESSIONAL LAND SURVEYORS ACT. THE CONTRACTOR'S SURVEYOR SHALL FILE PRE-CONSTRUCTION DOCUMENT PRIOR TO DEMOLITION



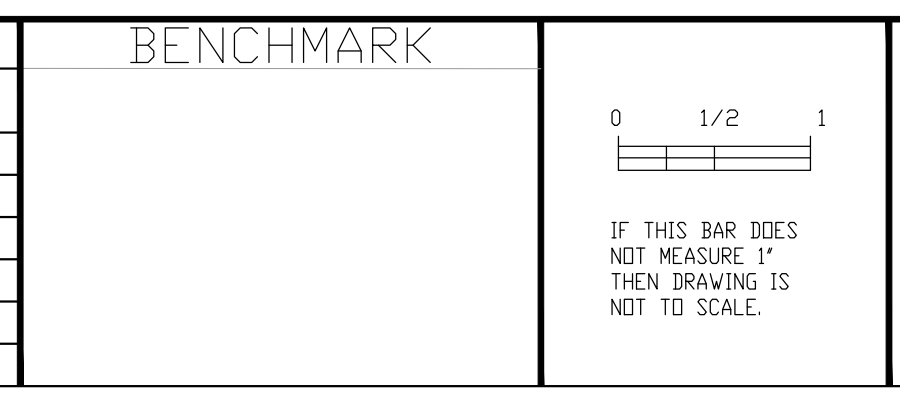
SEE ABOVE RIGHT  
MATCHLINE STA 21+50.00 LINE 'B'



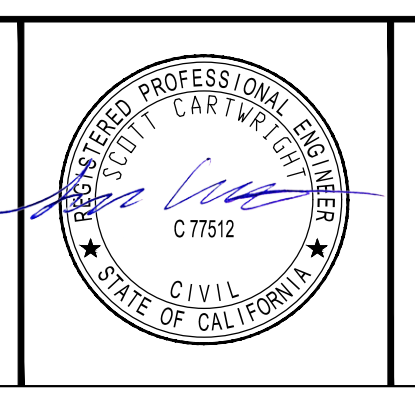
- GENERAL NOTES**
1. UNLESS OTHERWISE SHOWN ON PLANS, CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS WITHIN GRADING LIMITS AND REMOVE ALL IMPEDANCES FOR THE PROPOSED FACILITIES.
  2. VERIFY THE EXISTENCE AND HORIZONTAL/VERTICAL LOCATION OF ALL UTILITIES WITHIN THE PROJECT AREA THAT MAY CONFLICT WITH THE PROPOSED CONSTRUCTION. VERIFY THAT ANY UTILITIES SHOWN TO BE RELOCATED BY OTHERS HAVE BEEN RELOCATED AND ARE NO LONGER IN CONFLICT. IMMEDIATELY NOTIFY THE ENGINEER OF ANY REMAINING UTILITY CONFLICTS PRIOR TO THE START OF ANY DEMOLITION WORK.
  3. CONTRACTOR SHALL MAINTAIN EXISTING ELECTRICAL CIRCUITS FOR EQUIPMENT NOT REMOVED DURING DEMOLITION.
  4. PROPOSED IMPROVEMENTS SHOWN FOR REFERENCE ONLY. SEE IMPROVEMENT PLANS FOR PROPOSED IMPROVEMENTS.
  5. SEE SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKINGS AND TRAFFIC SIGN RELOCATIONS AND NEW INSTALLATIONS.
  6. EXISTING WATER METERS AND FIRE HYDRANTS SHALL REMAIN IN OPERATION UNTIL NEW SYSTEMS ARE OPERATIONAL. SEE IMPROVEMENT PLANS FOR IMPROVEMENTS.

**CONSTRUCTION CHANGE TABLE**

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS



**CAUTION!**  
LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.



**STREET DATA TABLE**

STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

**DEMOLITION PLANS FOR:**

**CONNECT MAIN STREET  
PHASE 3**

**STA 10+00 TO 13+00 & STA 20+00 TO STA 26+00**

CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 06 OF 37 SHEETS		DATE: 7/20/23	TM/TPM
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	CRA		
AS-BUILTS			
CONTRACTOR	DATE STARTED		
INSPECTOR	DATE COMPLETED		

1848-6321  
NAD83 COORDINATES  
206-1755 & 210-1755  
LAMBERT COORDINATES  
**R23-02-06**

FINAL CONSTRUCTION DRAWINGS



**LEGEND**

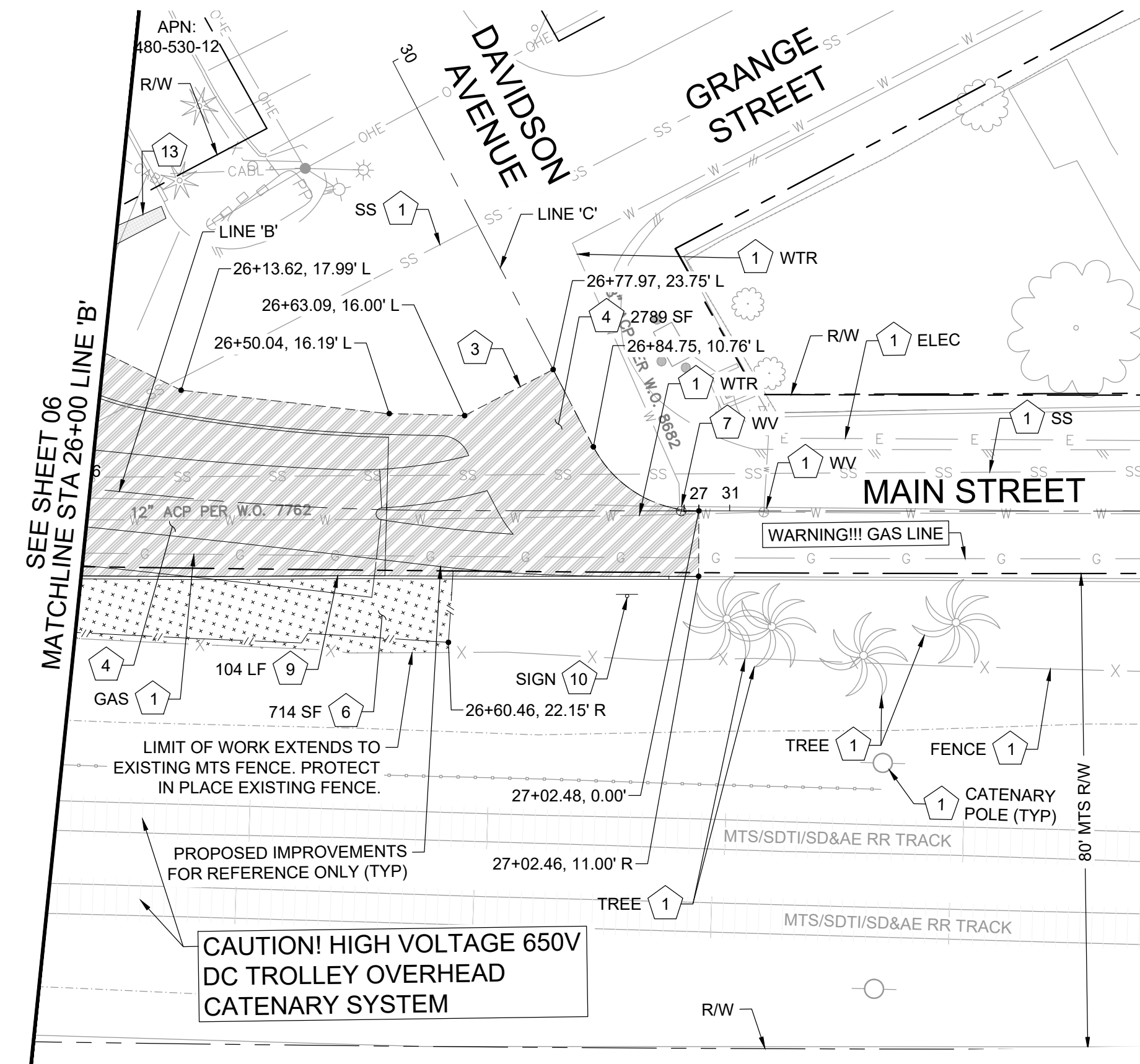
PROPERTY LINE	---
SAWCUT LINE	----
DAYLIGHT LINE	====
EXISTING FENCE LINE	-----
EXISTING EDGE OF PAVEMENT	=====
TREE TO BE PROTECTED IN PLACE	
TREE TO BE REMOVED	

**DEMOLITION NOTES**

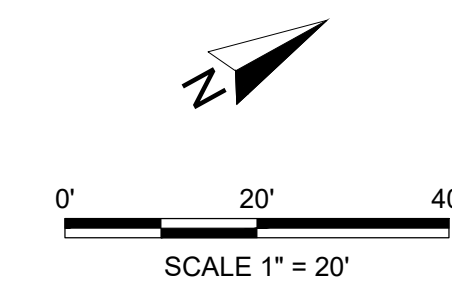
- 1 PROTECT IN PLACE
- 3 SAWCUT PER DETAIL A ON SHEET 13
- 4 REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT AND AGGREGATE BASE
- 6 REMOVE EXISTING VEGETATION, DEBRIS, AND OTHER MATERIAL IN CONFLICT WITH THE PROPOSED IMPROVEMENTS
- 7 ADJUST TO FINISHED GRADE, BY OTHERS
- 9 REMOVE EXISTING AC DIKE
- 10 REMOVE AND RELOCATE SIGN. SEE SIGNING & PAVEMENT MARKING PLANS SHEET 17
- 13 MILL EXISTING SPEED BUMP

**GENERAL NOTES**

- UNLESS OTHERWISE SHOWN ON PLANS, CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS WITHIN GRADING LIMITS AND REMOVE ALL IMPEDANCES FOR THE PROPOSED FACILITIES.
- VERIFY THE EXISTENCE AND HORIZONTAL/VERTICAL LOCATION OF ALL UTILITIES WITHIN THE PROJECT AREA THAT MAY CONFLICT WITH THE PROPOSED CONSTRUCTION. VERIFY THAT ANY UTILITIES SHOWN TO BE RELOCATED BY OTHERS HAVE BEEN RELOCATED AND ARE NO LONGER IN CONFLICT. IMMEDIATELY NOTIFY THE ENGINEER OF ANY REMAINING UTILITY CONFLICTS PRIOR TO THE START OF ANY DEMOLITION WORK.
- CONTRACTOR SHALL MAINTAIN EXISTING ELECTRICAL CIRCUITS FOR EQUIPMENT NOT REMOVED DURING DEMOLITION.
- PROPOSED IMPROVEMENTS SHOWN FOR REFERENCE ONLY. SEE IMPROVEMENT PLANS FOR PROPOSED IMPROVEMENTS.
- SEE SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKINGS AND TRAFFIC SIGN RELOCATIONS AND NEW INSTALLATIONS.
- EXISTING WATER METERS AND FIRE HYDRANTS SHALL REMAIN IN OPERATION UNTIL NEW SYSTEMS ARE OPERATIONAL. SEE IMPROVEMENT PLANS FOR IMPROVEMENTS.



**NOTE: STANDBY REQUIRED WHEN EXCAVATING WITHIN 10 FEET OF 16" HP GAS MAIN. HAND DIG ONLY.**



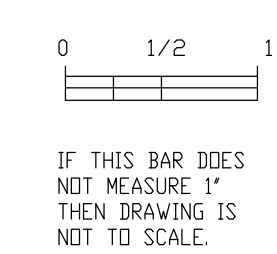
**811** Know what's below. Call before you dig.  
SECTION 4216/4217 OF THE STATE OF CA GOV CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. CALL AT LEAST TWO DAYS BEFORE YOU DIG.

<b>DEMOLITION PLANS FOR:</b>			
<b>CONNECT MAIN STREET PHASE 3</b>			
<b>STA 26+00 TO 26+89 &amp; STA 30+00 TO 31+71</b>			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 07 OF 37 SHEETS			
FOR CITY ENGINEER*		7/20/23	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	CRA		
AS-BUILTS			
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		R23-02-07	

STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

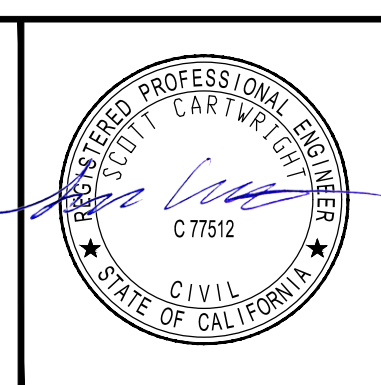
CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK	



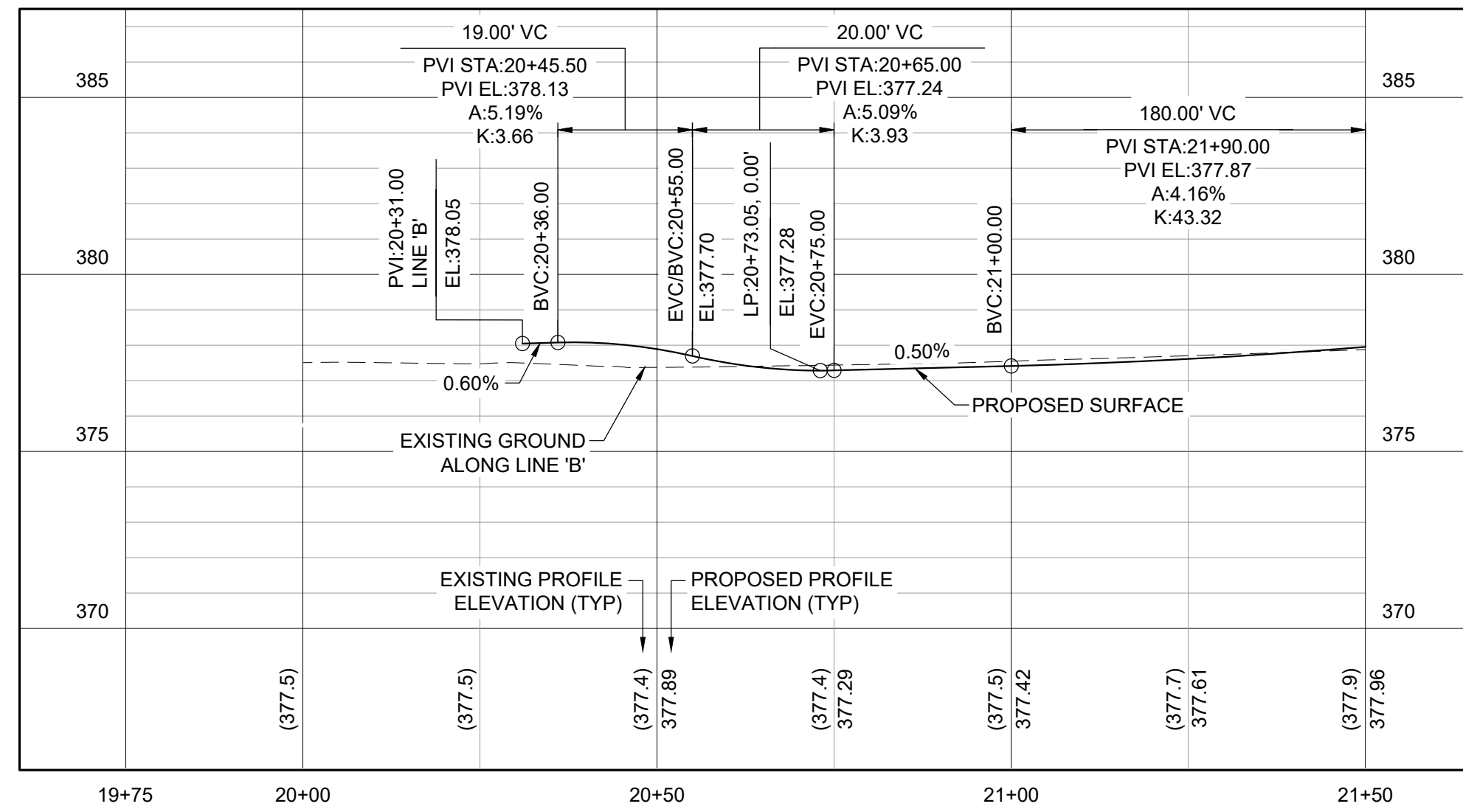
**COR**  
3900 Fifth Avenue, Suite 310 • San Diego, CA 92103 • 619.795.6086

CAUTION! LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.



FINAL CONSTRUCTION DRAWINGS





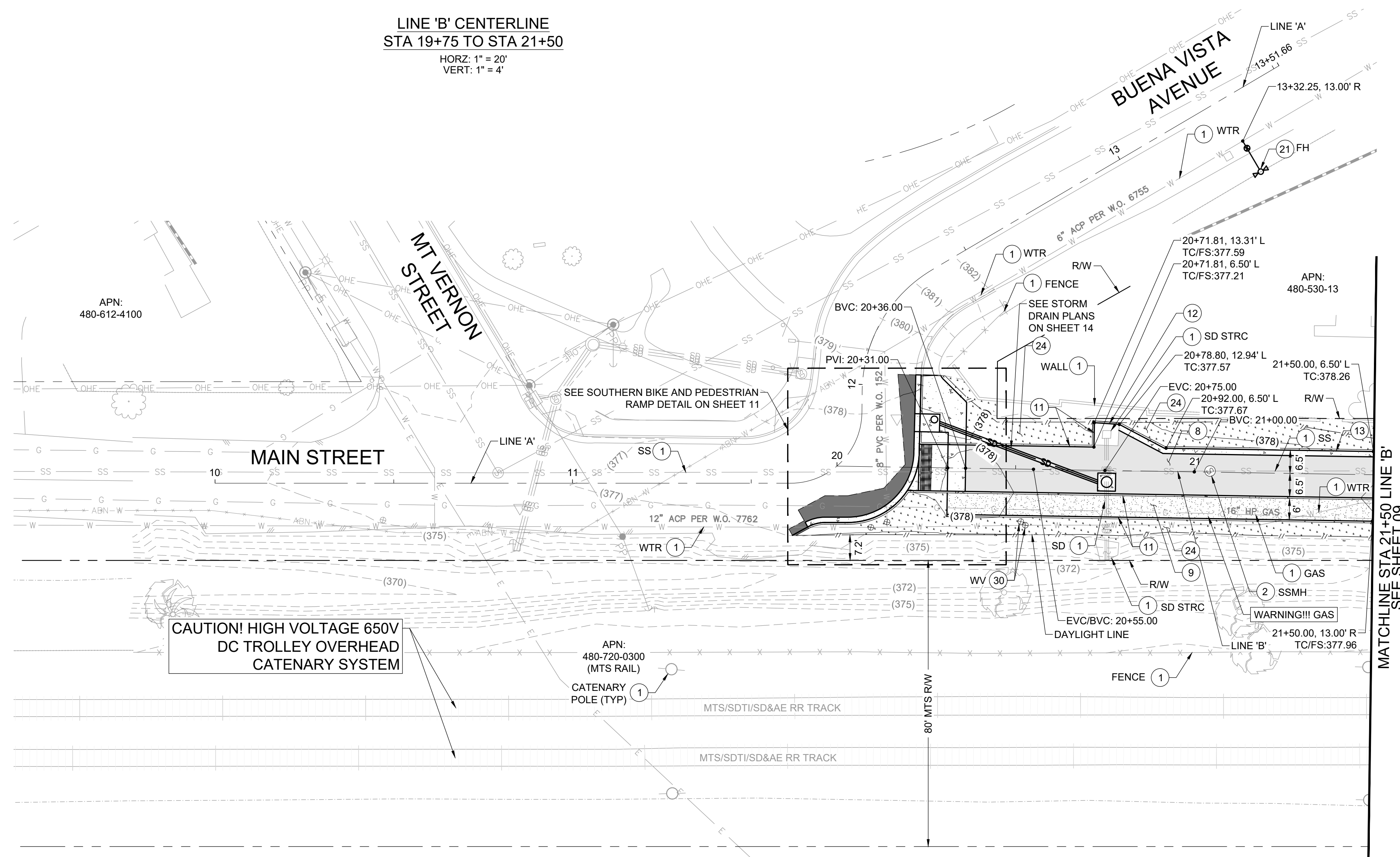
LINE 'B' CENTERLINE  
STA 19+75 TO STA 21+50  
HORZ: 1" = 20'  
VERT: 1" = 4'

**LEGEND**

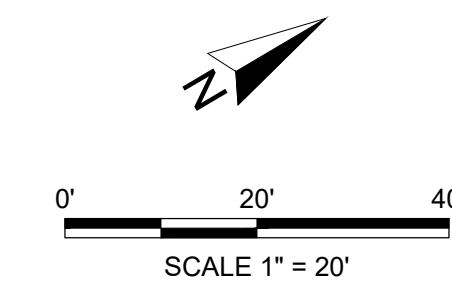
- PROPERTY LINE
- SAWCUT LINE
- DAYLIGHT LINE
- EXISTING FENCE LINE
- EXISTING EDGE OF PAVEMENT

**CONSTRUCTION NOTES**

- 1 PROTECT IN PLACE
- 2 ADJUST TO FINISHED GRADE
- 8 CONSTRUCT MULTI-USE PATH, 4" HMA OVER 4" CLASS 2 AGGREGATE BASE
- 9 CONSTRUCT D.G. PEDESTRIAN TRAIL, 4" DECOMPOSED GRANITE OVER 2" CLASS 2 AGGREGATE BASE PER LANDSCAPE PLANS
- 11 CONSTRUCT 0" CURB PER DETAIL E ON SHEET 13
- 12 CONSTRUCT 6" CURB PER SDRSD G-01
- 13 CONSTRUCT 6" CURB & GUTTER PER SDRSD G-02, TYPE G
- 21 HWD TO INSTALL 6" FIRE HYDRANT PER WATER AGENCIES STD WF-01
- 24 PLANTING PER LANDSCAPE PLANS
- 30 ADJUST TO FINISHED GRADE, BY OTHERS



NOTE: STANDBY REQUIRED WHEN EXCAVATING WITHIN 10 FEET OF 16" HP GAS MAIN. HAND DIG ONLY.



**811** Know what's below. Call before you dig.  
SECTION 4216/4217 OF THE STATE OF CALIFORNIA CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. CALL AT LEAST TWO DAYS BEFORE YOU DIG.

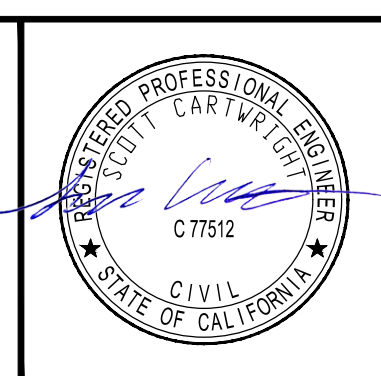
IMPROVEMENT PLANS FOR:			
<b>CONNECT MAIN STREET PHASE 3</b>			
STA 10+00 TO 13+52 & STA 20+00 TO STA 21+50			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 08 OF 37 SHEETS		DATE: 7/20/23	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	CRA		
AS-BUILTS		DATE STARTED	
CONTRACTOR		DATE COMPLETED	
INSPECTOR		DATE COMPLETED	
		R23-02-08	

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK	

**COR**  
3900 Fifth Avenue, Suite 310 • San Diego, CA 92103 • 619.795.6086

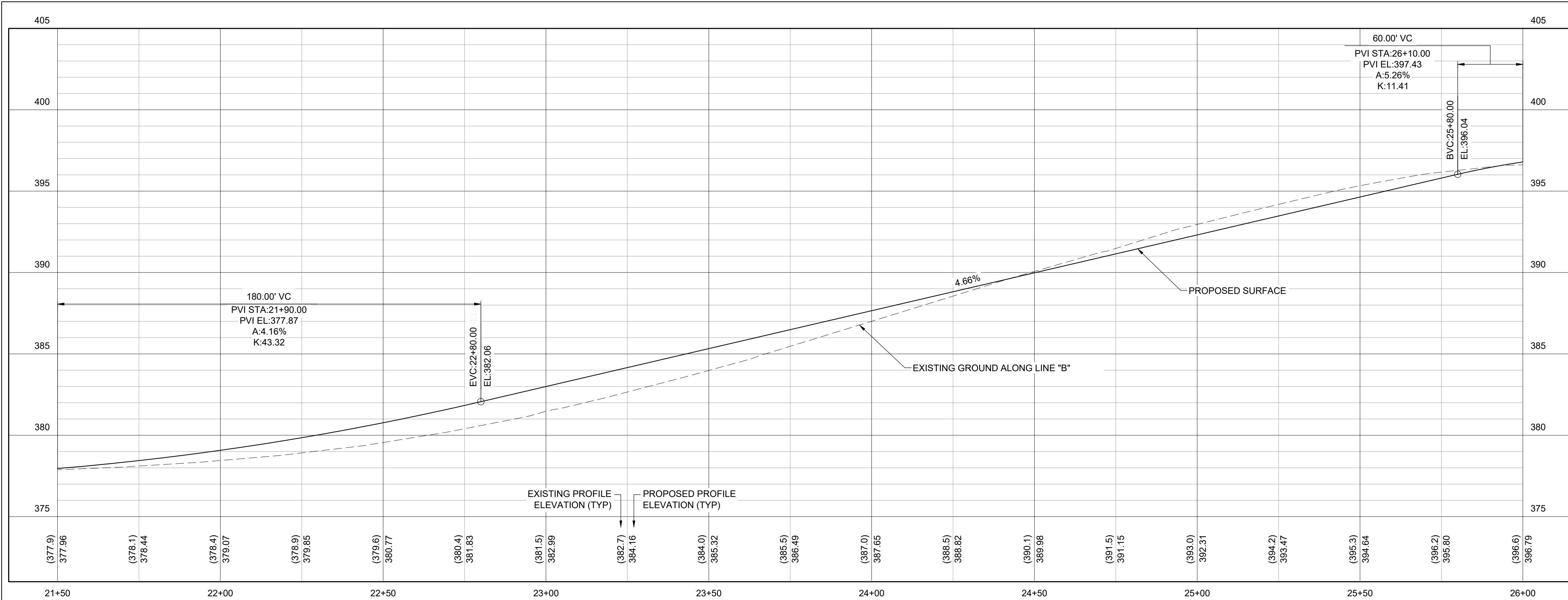
CAUTION! LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.



STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

FINAL CONSTRUCTION DRAWINGS





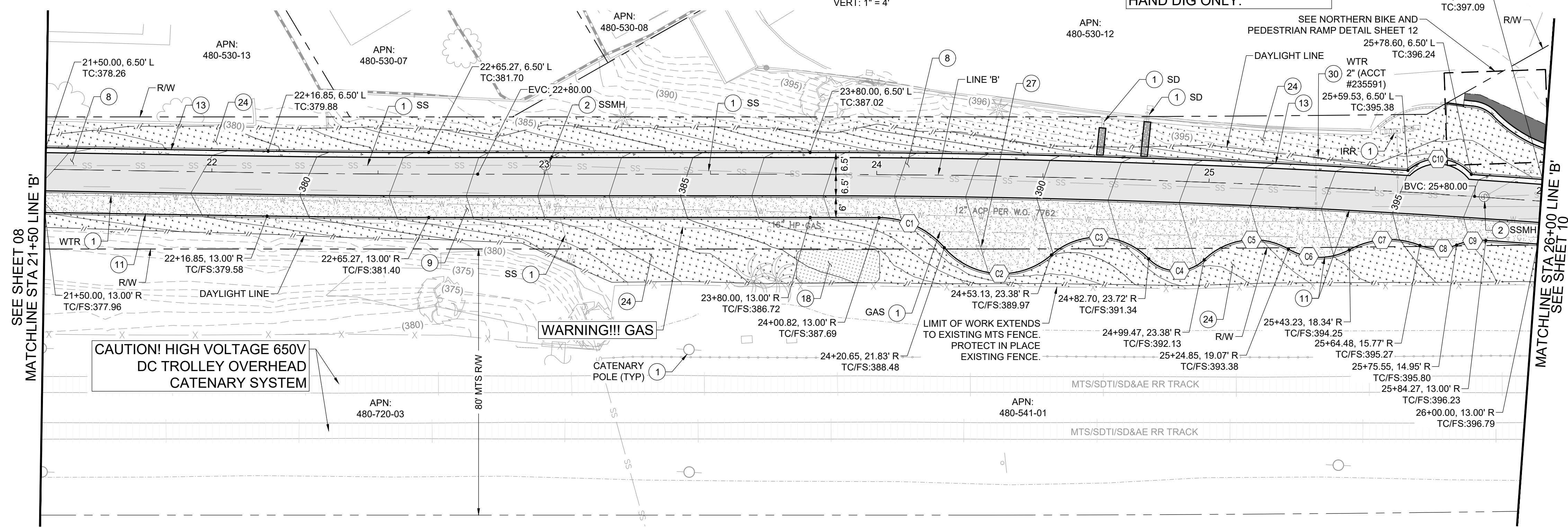
**LEGEND**

- PROPERTY LINE
- SAWCUT LINE
- DAYLIGHT LINE
- EXISTING FENCE LINE
- EXISTING EDGE OF PAVEMENT

- CONSTRUCTION NOTES**
- 1 PROTECT IN PLACE
  - 2 ADJUST TO FINISHED GRADE
  - 8 CONSTRUCT MULTI-USE PATH, 4" HMA OVER 4" CLASS 2 AGGREGATE BASE
  - 9 CONSTRUCT D.G. PEDESTRIAN TRAIL, 4" DECOMPOSED GRANITE OVER 2" CLASS 2 AGGREGATE BASE PER LANDSCAPE PLANS
  - 11 CONSTRUCT 0" CURB PER DETAIL E ON SHEET 13
  - 13 CONSTRUCT 6" CURB & GUTTER PER SDRSD G-02, TYPE G
  - 18 CONSTRUCT BMP PER DETAIL G ON SHEET 16
  - 24 PLANTING PER LANDSCAPE PLANS
  - 27 ALL SURVEY MONUMENTS AND POINTS SHALL BE REESTABLISHED AS INDICATED IN THE PLAN SET AND SHALL BE PER THE PROFESSIONAL LAND SURVEYORS ACT
  - 30 ADJUST TO FINISHED GRADE, BY OTHERS

**LINE 'B' CENTERLINE  
STA 21+50 TO STA 26+00**  
HORIZ: 1" = 20'  
VERT: 1" = 4'

**NOTE: STANDBY REQUIRED  
WHEN EXCAVATING WITHIN  
10 FEET OF 16" HP GAS MAIN.  
HAND DIG ONLY.**

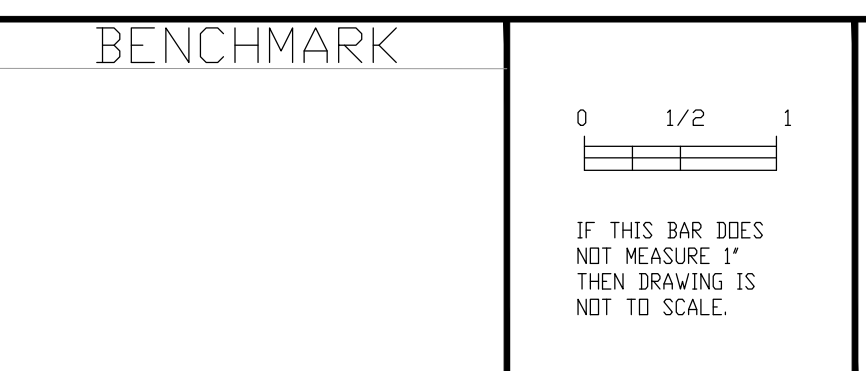


**GEOMETRIC CURB DATA**

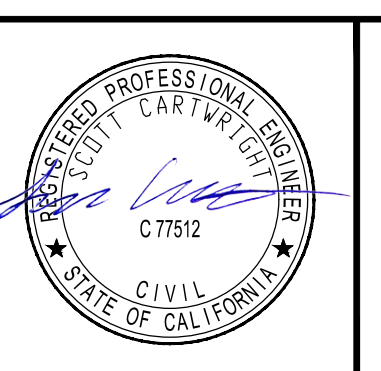
LENGTH	LINE/CHORD DIRECTION	R	T	DELTA	REMARKS
C1	S55°06'14"W	26.29'	11.93	48°49'05"	0" CURB PER DETAIL E ON SHEET 13
C2	S34°23'20"W	22.74'	22.89	90°23'06"	0" CURB PER DETAIL E ON SHEET 13
C3	S32°53'48"W	21.25'	20.28	87°17'57"	0" CURB PER DETAIL E ON SHEET 13
C4	S31°28'21"W	11.75'	11.79	90°12'02"	0" CURB PER DETAIL E ON SHEET 13
C5	S23°23'21"W	21.25'	16.00	73°57'31"	0" CURB PER DETAIL E ON SHEET 13
C6	S31°11'18"W	18.75'	10.47	58°21'37"	0" CURB PER DETAIL E ON SHEET 13
C7	S26°56'30"W	25.25'	11.74	49°51'59"	0" CURB PER DETAIL E ON SHEET 13
C8	S29°55'26"W	14.72'	5.95	44°02'53"	0" CURB PER DETAIL E ON SHEET 13
C9	S21°41'03"W	18.81'	4.58	27°20'54"	0" CURB PER DETAIL E ON SHEET 13
C10	S34°09'37"W	13.38'	13.65	91°07'38"	6" C&G PER SDRSD G-02, TYPE G

**CONSTRUCTION CHANGE TABLE**

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS



**CAUTION!**  
LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.



**STREET DATA TABLE**

STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

SECTION 4216/4217 OF THE STATE OF CA GOV CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A 'PERMIT TO EXCAVATE' WILL BE VALID. CALL AT LEAST TWO DAYS BEFORE YOU DIG.

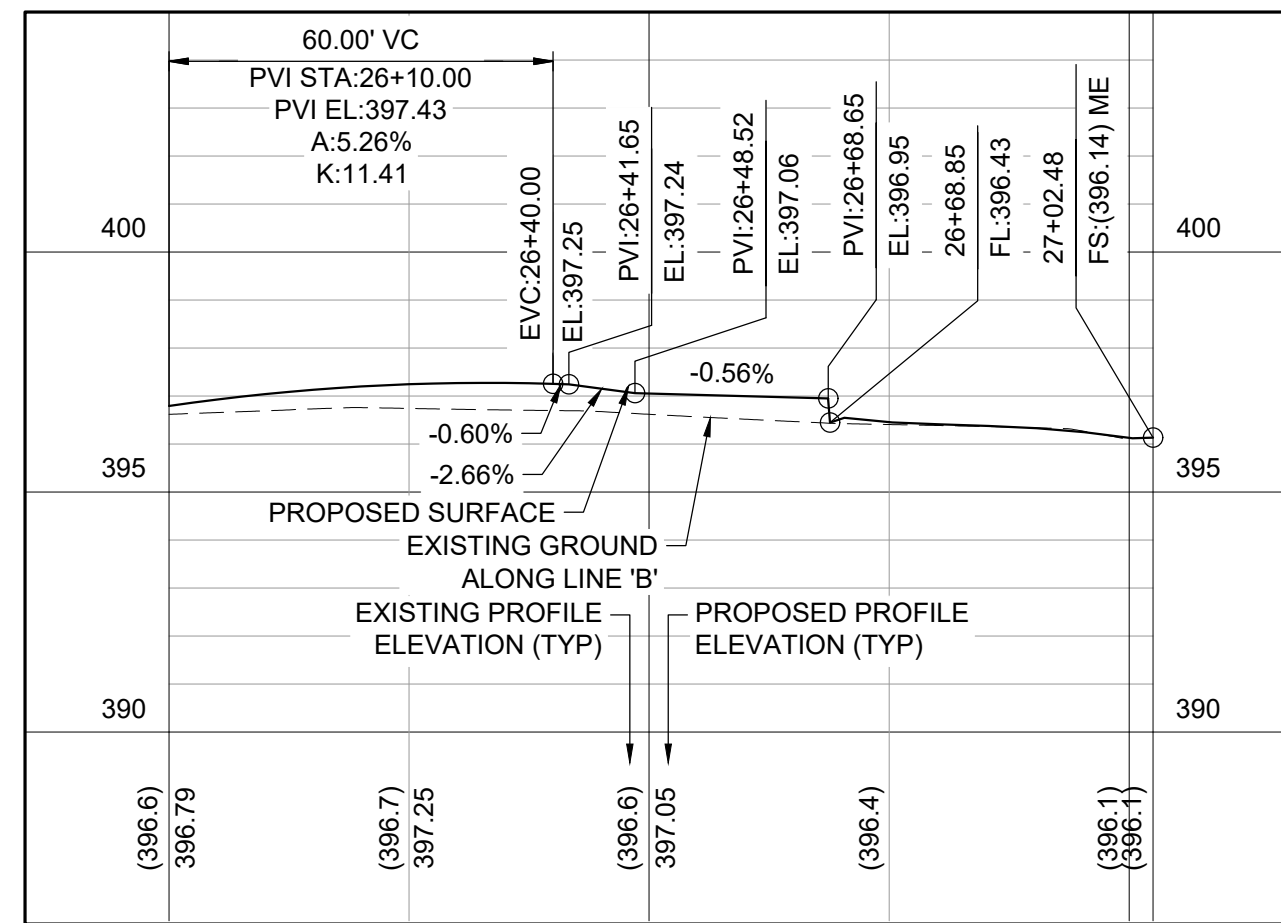
**IMPROVEMENT PLANS FOR:**  
**CONNECT MAIN STREET  
PHASE 3  
STA 21+50 TO STA 26+00**

CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 09 OF 37 SHEETS		DATE: 7/20/23	TM/TPM
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	CRA		
AS-BUILTS			
CONTRACTOR	DATE STARTED		
INSPECTOR	DATE COMPLETED		

1848-6321  
NAD83 COORDINATES  
206-1755 & 210-1755  
LAMBERT COORDINATES  
R23-02-09

FINAL CONSTRUCTION DRAWINGS





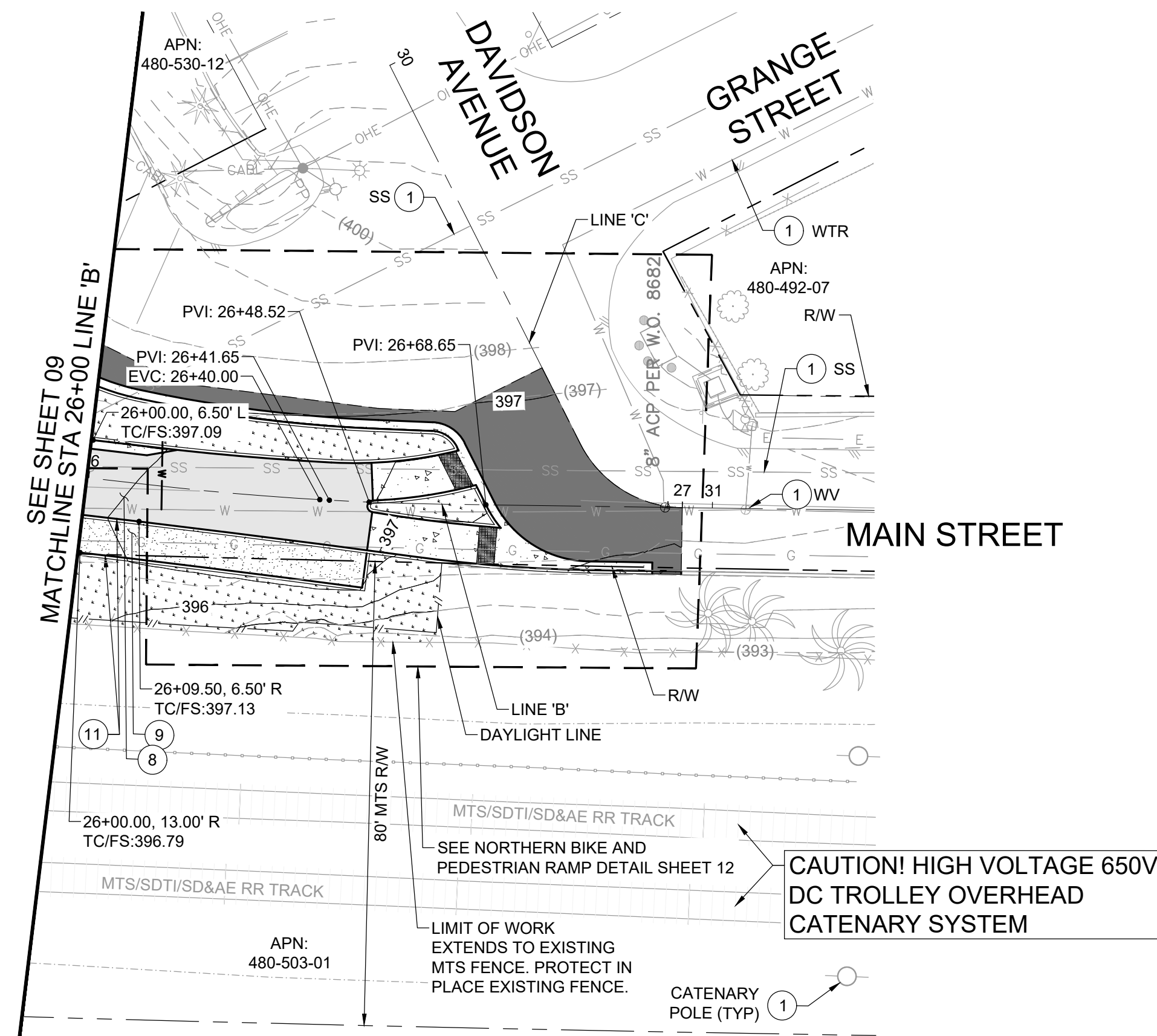
LINE 'B' CENTERLINE  
STA 26+00 TO STA 27+00  
HORIZ: 1" = 20'  
VERT: 1" = 4'

**LEGEND**

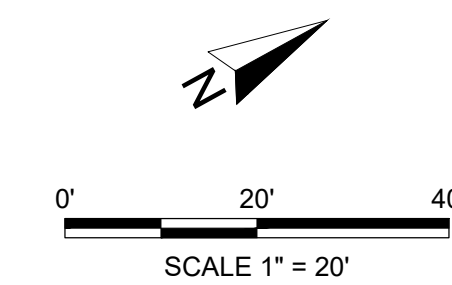
- PROPERTY LINE
- SAWCUT LINE
- DAYLIGHT LINE
- EXISTING FENCE LINE
- EXISTING EDGE OF PAVEMENT

**CONSTRUCTION NOTES**

- 1 PROTECT IN PLACE
- 8 CONSTRUCT MULTI-USE PATH, 4" HMA OVER 4" CLASS 2 AGGREGATE BASE
- 9 CONSTRUCT D.G. PEDESTRIAN TRAIL, 4" DECOMPOSED GRANITE OVER 2" CLASS 2 AGGREGATE BASE PER LANDSCAPE PLANS
- 11 CONSTRUCT 0" CURB PER DETAIL E ON SHEET 13



NOTE: STANDBY REQUIRED WHEN EXCAVATING WITHIN 10 FEET OF 16" HP GAS MAIN. HAND DIG ONLY.

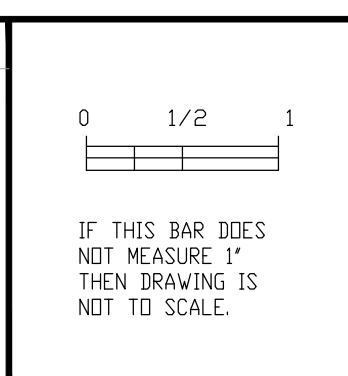


SECTION 4216/4217 OF THE STATE OF CA GOV. CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. CALL AT LEAST TWO DAYS BEFORE YOU DIG.

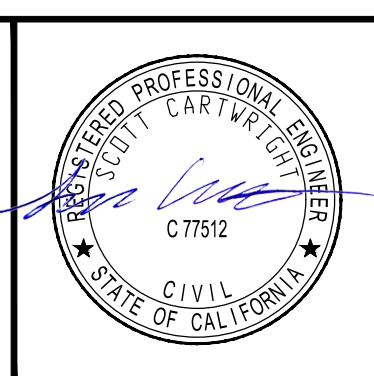
IMPROVEMENT PLANS FOR: <b>CONNECT MAIN STREET PHASE 3</b> STA 26+00 TO 26+89 & STA 30+00 TO STA 31+28			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 10 OF 37 SHEETS			
FOR CITY ENGINEER*		DATE: 7/20/23	
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	CRA		
AS-BUILTS			
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
			1948-6321 NAD83 COORDINATES
			206-1755 & 210-1755 LAMBERT COORDINATES
			R23-02-10

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

--



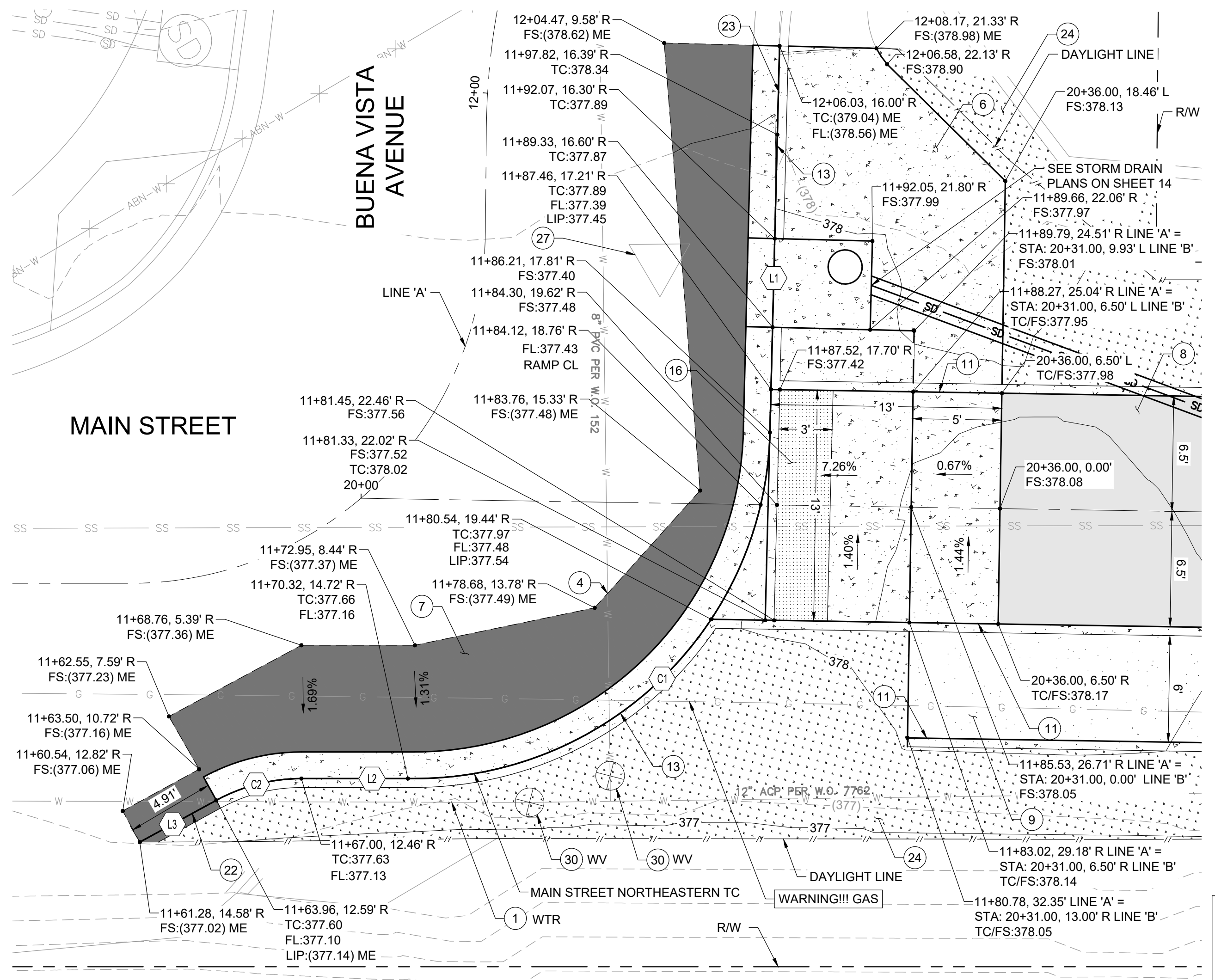
CAUTION! LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.



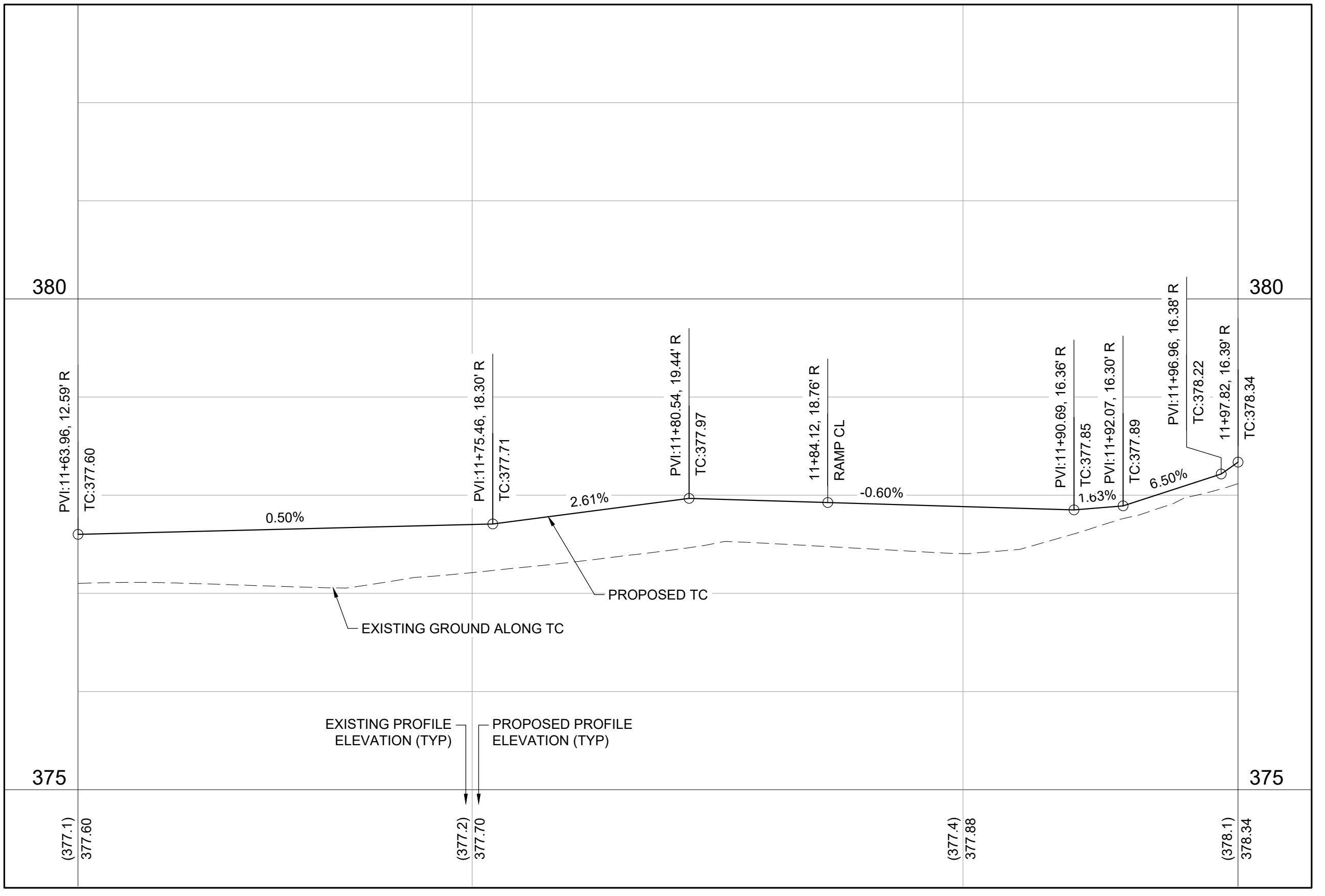
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

FINAL CONSTRUCTION DRAWINGS





NOTE: STANDBY REQUIRED WHEN EXCAVATING WITHIN 10 FEET OF 16" HP GAS MAIN. HAND DIG ONLY.



MAIN STREET NORTHEASTERN TC  
HORZ: 1" = 5'  
VERT: 1" = 1'

SOUTHERN BIKE & PEDESTRIAN RAMP DETAIL  
SCALE: 1" = 5'

**LEGEND**

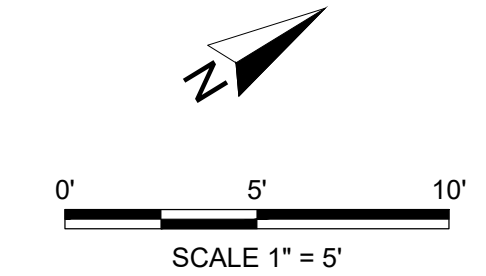
PROPERTY LINE	---
SAWCUT LINE	- - - - -
DAYLIGHT LINE	— · — · —
EXISTING FENCE LINE	x x x x
EXISTING EDGE OF PAVEMENT	

**CONSTRUCTION NOTES**

- 1 PROTECT IN PLACE
- 2 ADJUST TO FINISHED GRADE
- 4 SAWCUT PER DETAIL A ON SHEET 13
- 6 CONSTRUCT 4" PCC SIDEWALK PER SDRSD G-07
- 7 CONSTRUCT HMA ROADWAY PAVEMENT, 4" HMA OVER 6" CLASS 2 AGGREGATE BASE
- 8 CONSTRUCT MULTI-USE PATH, 4" HMA OVER 4" CLASS 2 AGGREGATE BASE
- 9 CONSTRUCT D.G. PEDESTRIAN TRAIL, 4" DECOMPOSED GRANITE OVER 2" CLASS 2 AGGREGATE BASE PER LANDSCAPE PLANS
- 11 CONSTRUCT 0" CURB PER DETAIL E ON SHEET 13
- 13 CONSTRUCT 6" CURB & GUTTER PER SDRSD G-02, TYPE G
- 16 CONSTRUCT ADA RAMP PER SDRSD G-31
- 22 TRANSITION TO EXISTING PAVEMENT PER DETAIL C ON SHEET 13
- 23 TRANSITION FROM CURB & GUTTER TO CURB/CURB & GUTTER PER DETAIL D ON SHEET 13
- 24 PLANTING PER LANDSCAPE PLANS
- 27 ALL SURVEY MONUMENTS AND POINTS SHALL BE REESTABLISHED AS INDICATED IN THE PLAN SET AND SHALL BE PER THE PROFESSIONAL LAND SURVEYORS ACT
- 30 ADJUST TO FINISHED GRADE, BY OTHERS

**GEOMETRIC CURB DATA**

LINE	LENGTH	LINE/CHORD DIRECTION	R	T	DELTA	REMARKS
L1	21.78'	N56°01'08"W				6" CURB & GUTTER PER SDRSD G-02
C1	30.92'	N13°44'05"W	20.00'	19.51'	88°34'06"	6" CURB & GUTTER PER SDRSD G-02
L2	6.39'	N30°32'58"E				6" CURB & GUTTER PER SDRSD G-02
C2	5.00'	N16°13'32"E	10.00'	2.55'	28°38'52"	6" CURB & GUTTER PER SDRSD G-02
L3	4.91'	N01°54'06"E				6" CURB TRANSITION SEE DETAIL C ON SHEET 13



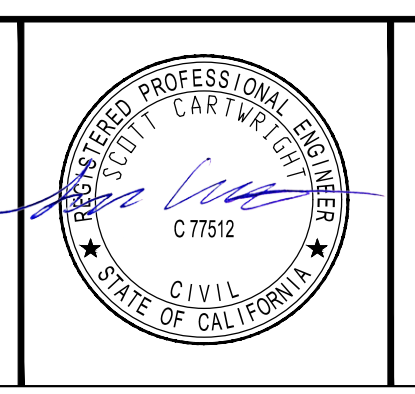
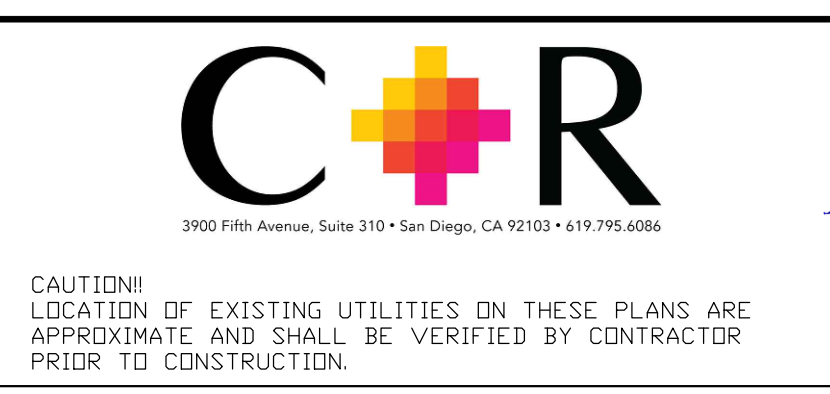
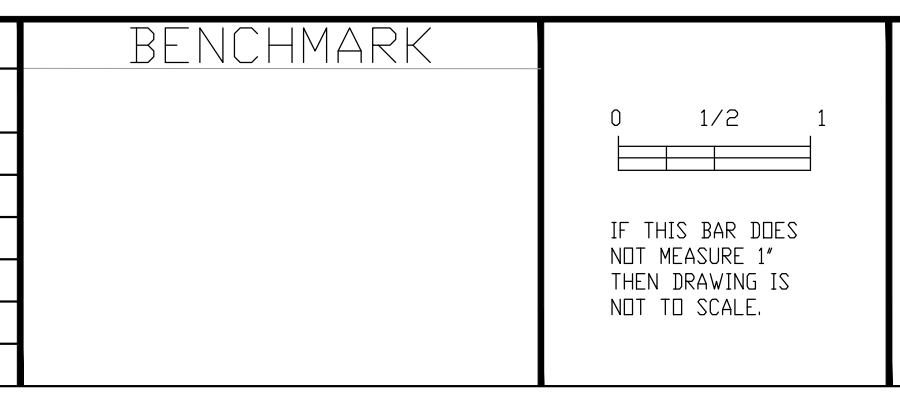
**811** Know what's below. Call before you dig.  
SECTION 4216/4217 OF THE STATE OF CALIFORNIA CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. CALL AT LEAST TWO DAYS BEFORE YOU DIG.

**INTERSECTION DETAILS FOR:  
CONNECT MAIN STREET  
PHASE 3**

CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 11 OF 37 SHEETS		DATE: 7/20/23	TM/TPM
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	CRA		
AS-BUILTS			1848-6321 NAD83 COORDINATES
CONTRACTOR			206-1755 & 210-1755 LAMBERT COORDINATES
INSPECTOR			R23-02-11

**CONSTRUCTION CHANGE TABLE**

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

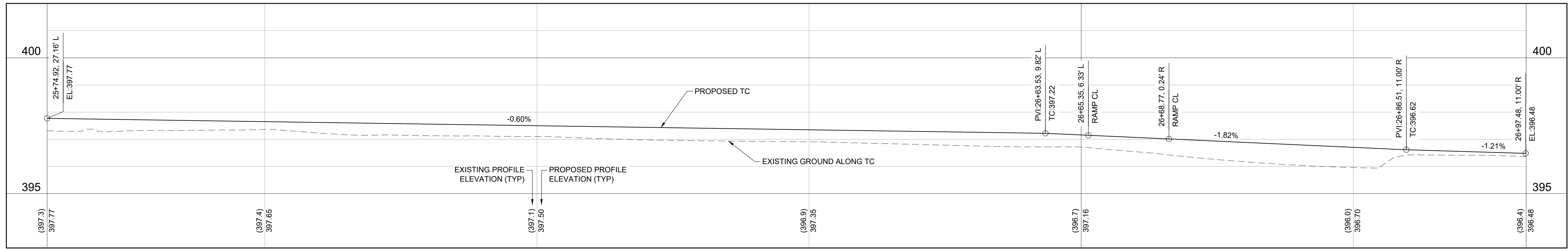


**STREET DATA TABLE**

STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

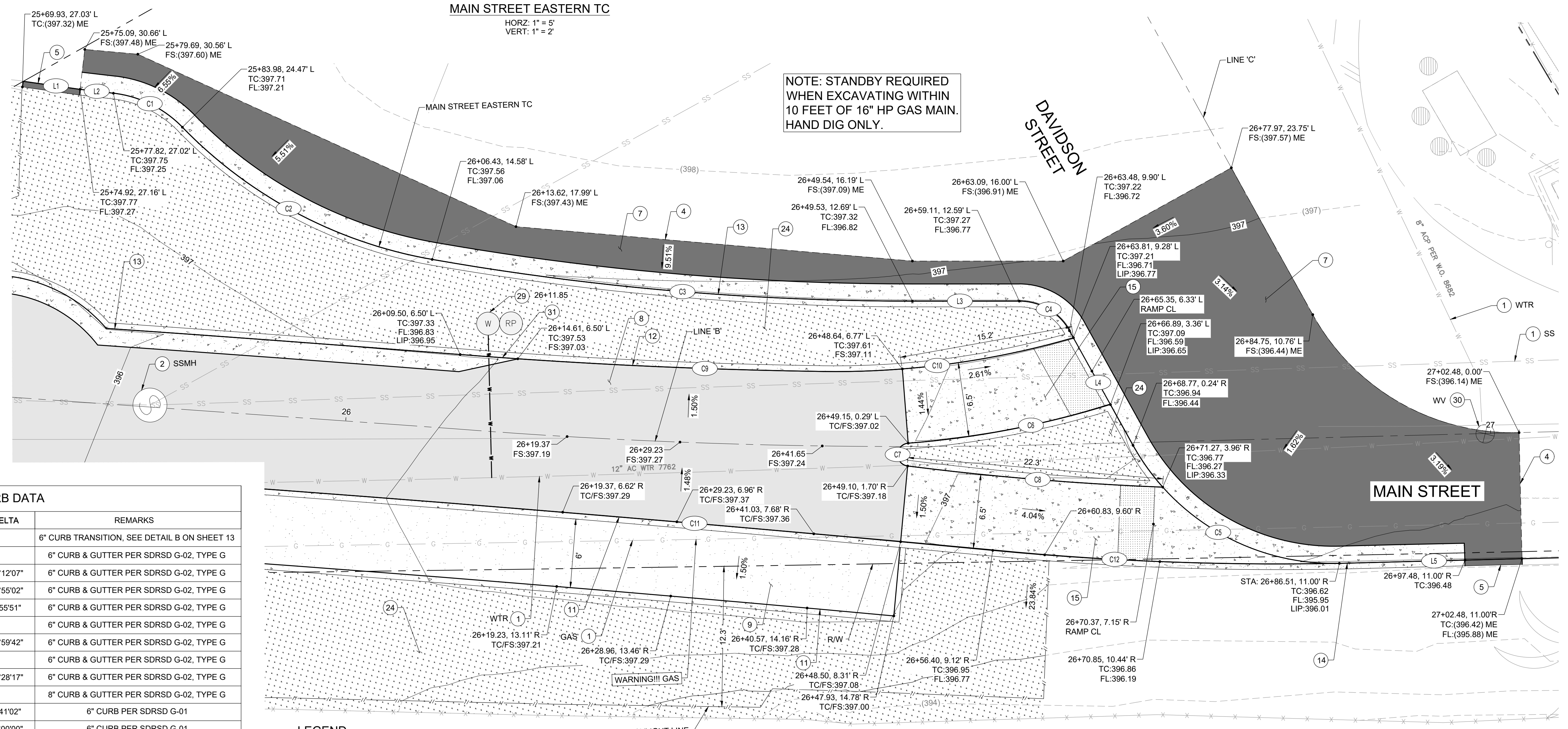
FINAL CONSTRUCTION DRAWINGS





**CONSTRUCTION NOTES**

- 1 PROTECT IN PLACE
- 2 ADJUST TO FINISHED GRADE
- 4 SAWCUT PER DETAIL A ON SHEET 13
- 5 TRANSITION TO EXISTING AC BERM PER DETAIL B ON SHEET 13
- 7 CONSTRUCT HMA ROADWAY PAVEMENT, 4" HMA OVER 6" CLASS 2 AGGREGATE BASE
- 8 CONSTRUCT MULTI-USE PATH, 4" HMA OVER 4" CLASS 2 AGGREGATE BASE
- 9 CONSTRUCT D.G. PEDESTRIAN TRAIL, 4" DECOMPOSED GRANITE OVER 2" CLASS 2 AGGREGATE BASE PER LANDSCAPE PLANS
- 11 CONSTRUCT 0" CURB PER DETAIL E ON SHEET 13
- 12 CONSTRUCT 6" CURB PER SDRSD G-01
- 13 CONSTRUCT 6" CURB & GUTTER PER SDRSD G-02, TYPE G
- 14 CONSTRUCT 8" CURB & GUTTER PER SDRSD G-01
- 15 CONSTRUCT ADA RAMP PER SDRSD G-31
- 24 PLANTING PER LANDSCAPE PLANS
- 29 HWD TO INSTALL 2" IRRIGATION SERVICE WITH 2" METER. CONTRACTOR TO INSTALL REDUCED PRESSURE BACKFLOW PREVENTION DEVICE PER SDRSD WR-01. SEE IRRIGATION PLANS. SEE HWD NOTE 15 ON SHEET 2
- 30 ADJUST TO FINISHED GRADE, BY OTHERS
- 31 TRANSITION FROM 6" CURB & GUTTER TO 6" CURB PER DETAIL F ON SHEET 13



LINE	LENGTH	LINE/CHORD DIRECTION	R	T	DELTA	REMARKS
L1	5.00'	N38°28'47"E				6" CURB TRANSITION, SEE DETAIL B ON SHEET 13
L2	2.93'	N37°03'39.31"E				6" CURB & GUTTER PER SDRSD G-02, TYPE G
C1	6.84'	N56°39'43"E	10.00'	3.56'	39°12'07"	6" CURB & GUTTER PER SDRSD G-02, TYPE G
C2	25.08'	N58°18'15"E	40.00'	12.96'	35°55'02"	6" CURB & GUTTER PER SDRSD G-02, TYPE G
C3	42.12'	N35°22'48"E	243.00'	21.11'	9°55'51"	6" CURB & GUTTER PER SDRSD G-02, TYPE G
L3	9.33'	N30°24'53"E				6" CURB & GUTTER PER SDRSD G-02, TYPE G
C4	5.32'	N60°54'44"E	5.00'	2.94'	60°59'42"	6" CURB & GUTTER PER SDRSD G-02, TYPE G
L4	11.45'	S88°35'25"E				6" CURB & GUTTER PER SDRSD G-02, TYPE G
C5	21.81'	N60°10'26"E	20.00'	12.13'	62°28'17"	6" CURB & GUTTER PER SDRSD G-02, TYPE G
L5	65.83'	N28°56'18"E				8" CURB & GUTTER PER SDRSD G-02, TYPE G
C9	31.73'	N33°05'26"E	493.50'	15.87'	3°41'02"	6" CURB PER SDRSD G-01
C10	22.10'	N22°44'55"E	74.50'	11.13'	17°00'00"	6" CURB PER SDRSD G-01
C6	17.98'	S19°28'07"W	78.32'	9.03'	13°09'11"	6" CURB PER SDRSD G-01
C7	2.94'	S58°12'26"E	1.00'	9.75'	168°17'13"	0" CURB PER DETAIL E, SHEET 13
C8	22.35'	N35°09'29"E	257.00'	11.18'	4°58'57"	6" CURB PER SDRSD G-01
C11	47.65'	N35°20'24"E	3810.40'	23.83'	0°43'00"	0" CURB PER DETAIL E, SHEET 13
C12	30.32'	N32°37'55"E	252.03'	15.18'	6°53'32"	6" CURB PER SDRSD G-01

**LEGEND**

- PROPERTY LINE
- SAWCUT LINE
- DAYLIGHT LINE
- EXISTING FENCE LINE
- EXISTING EDGE OF PAVEMENT

**NORTHERN BIKE AND PEDESTRIAN RAMP DETAIL**  
SCALE: 1" = 5'



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**INTERSECTION DETAILS FOR: CONNECT MAIN STREET PHASE 3**

CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 12 OF 37 SHEETS		DATE: 7/20/23	TM/TPM
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	CRA		
AS-BUILTS			
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
1848-6321 NAD83 COORDINATES			
206-1755 & 210-1755 LAMBERT COORDINATES			
R23-02-12			

STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

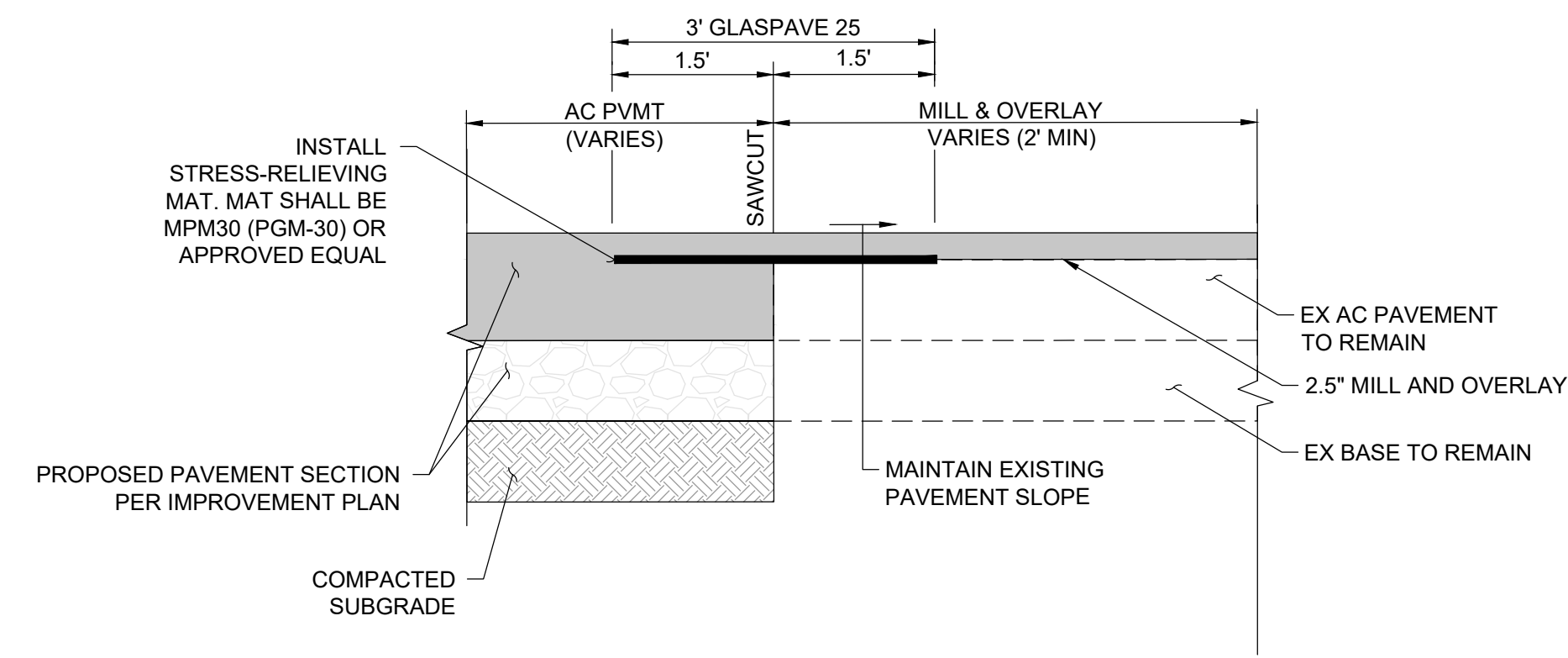
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

**BENCHMARK**

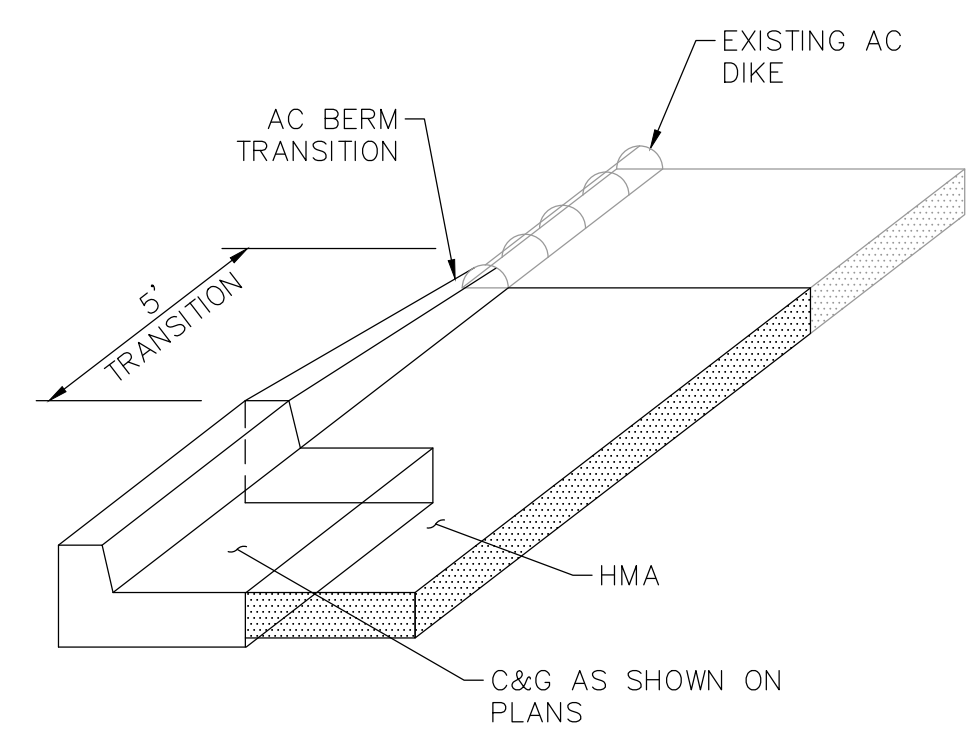
IF THIS BAR DOES NOT MEASURE 1' THEN DRAWING IS NOT TO SCALE.

CAUTION! LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

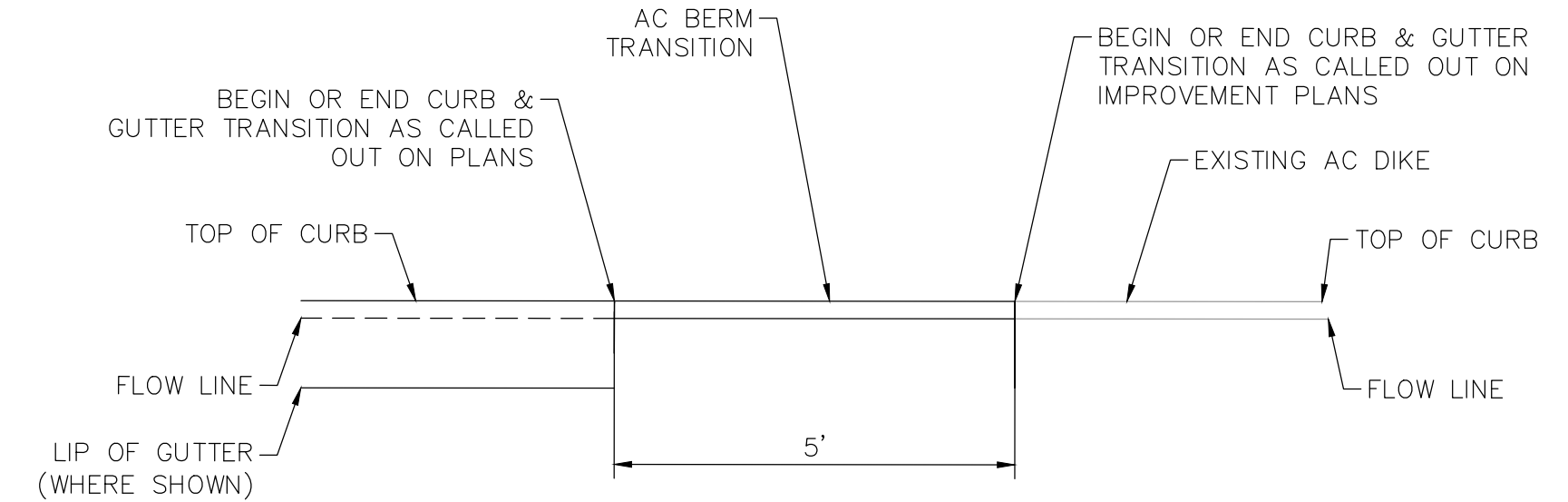




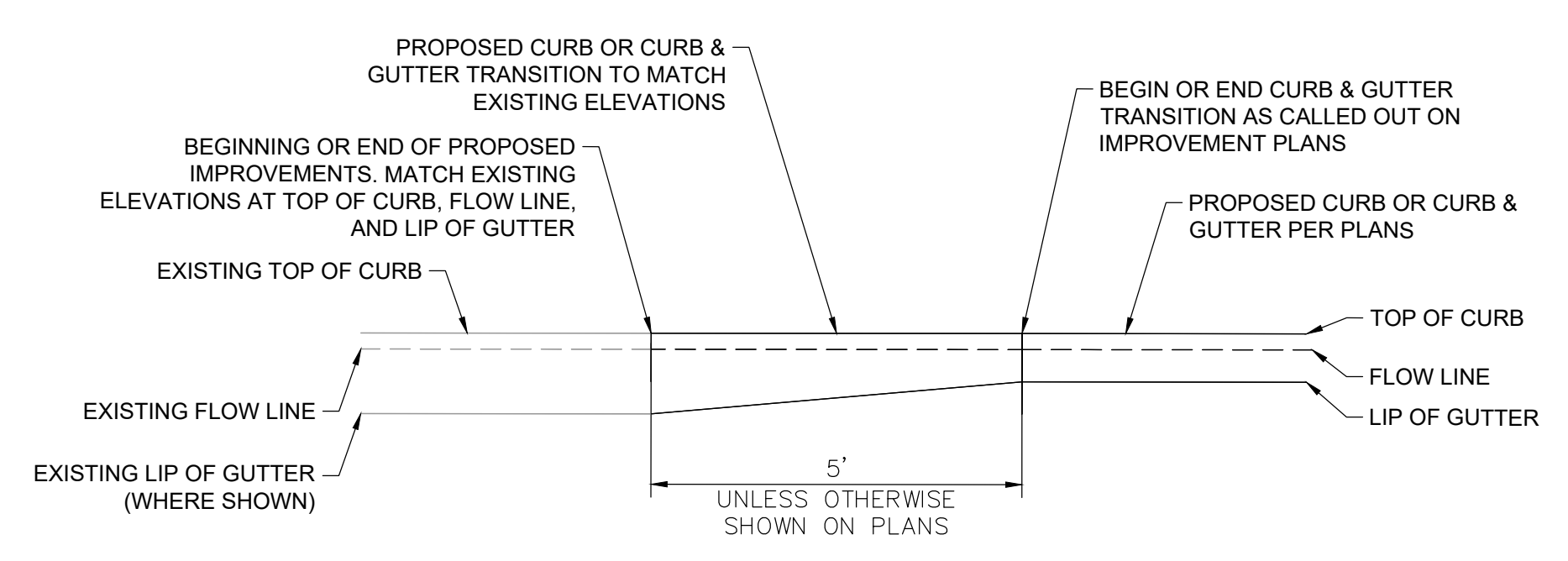
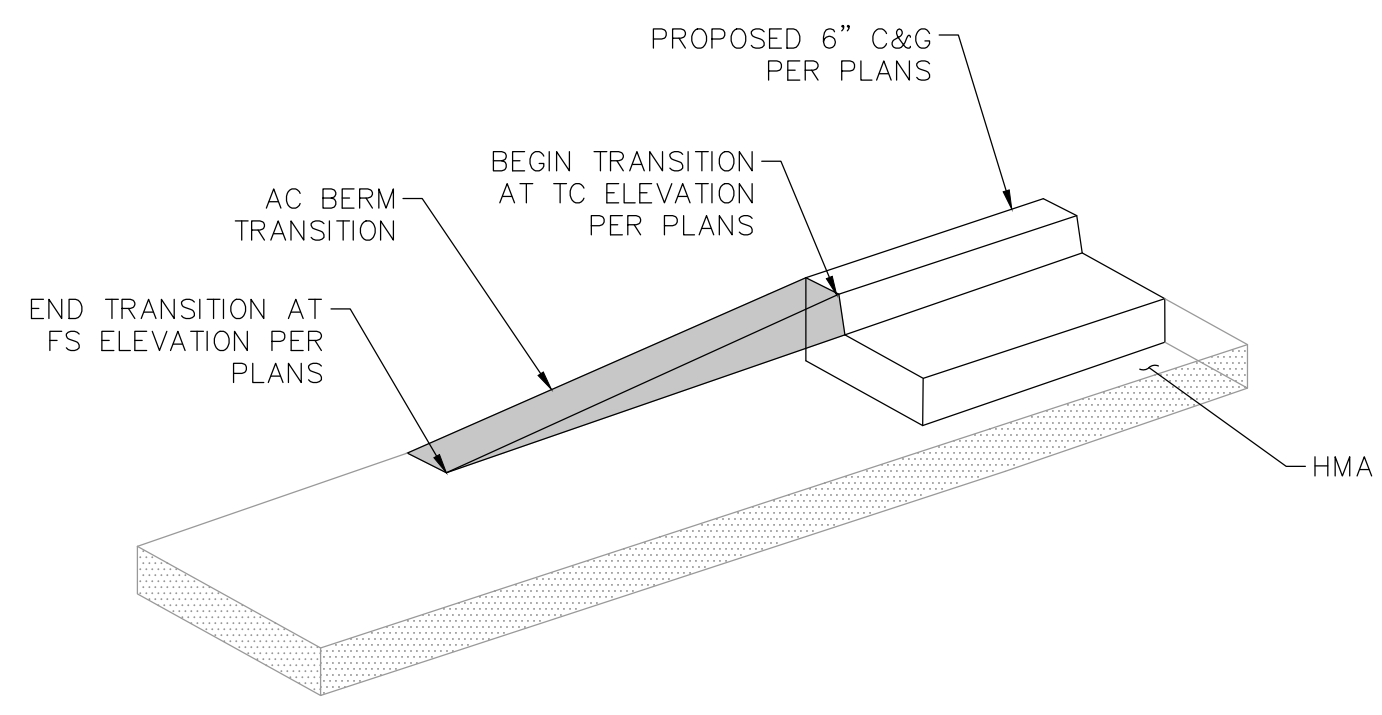
**A SAWCUT DETAIL**  
NOT TO SCALE



**B CURB AND GUTTER TRANSITION**  
NOT TO SCALE

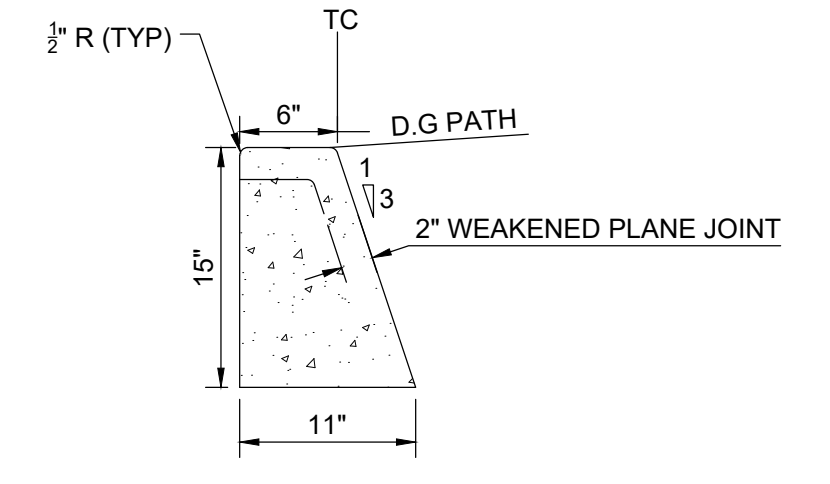


**C CURB AND GUTTER TRANSITION**  
NOT TO SCALE

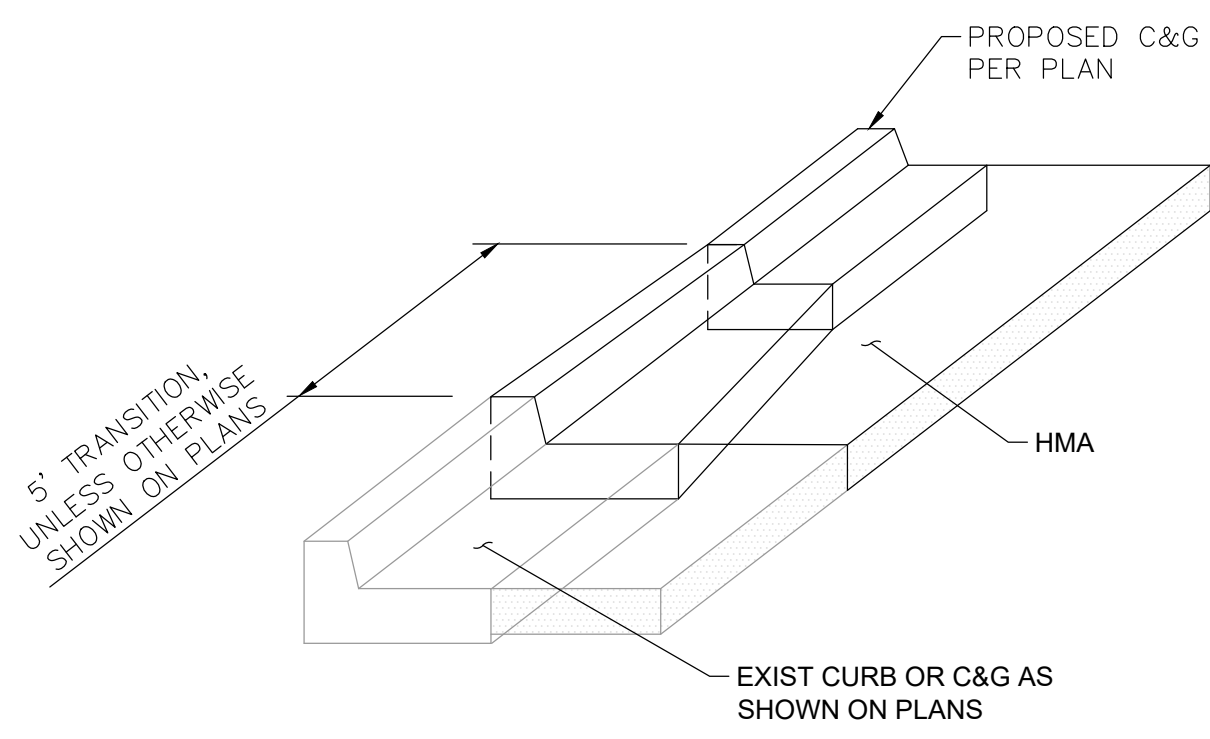


**D CURB AND GUTTER TRANSITION**  
NOT TO SCALE

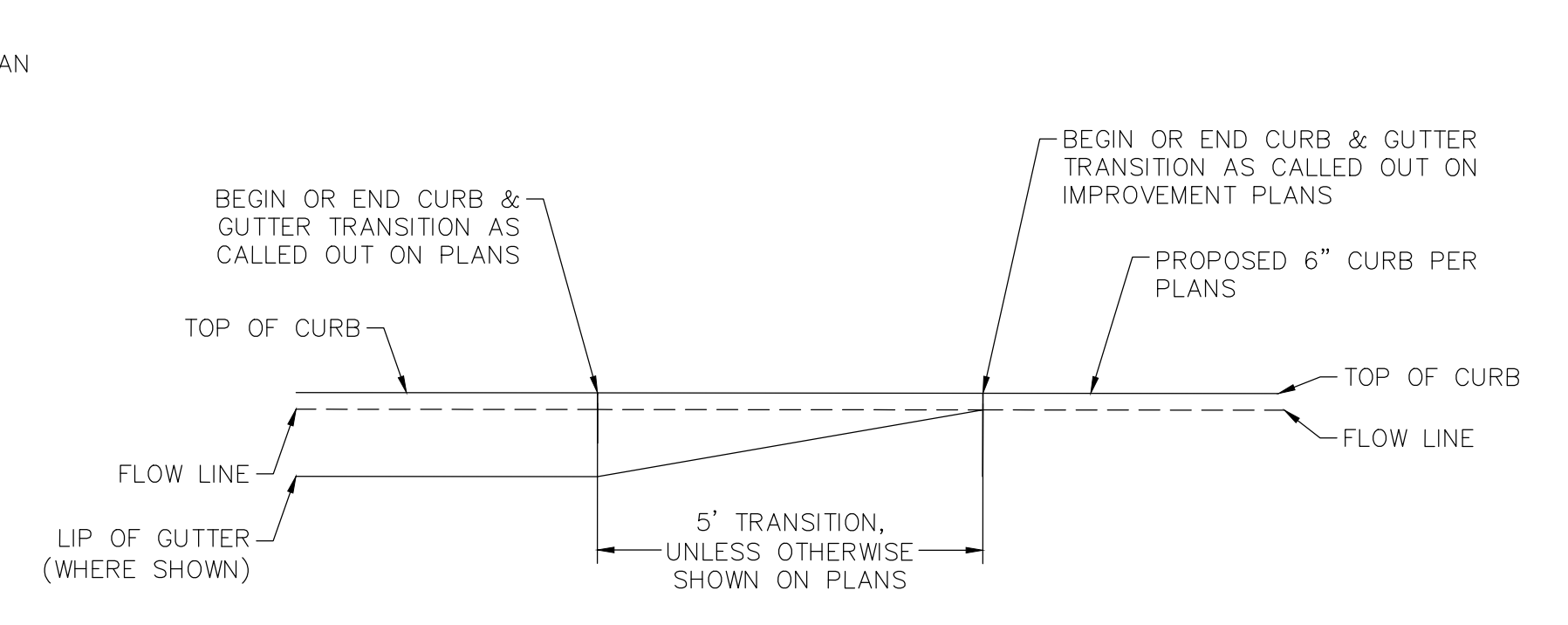
- NOTES:**
1. CONCRETE SHALL BE 520-C-2500.
  2. SEE SDRSD G-9 AND G-10 FOR JOINT DETAILS
  3. SLOPE TOP OF CURB 2% MAX TOWARDS GUTTER.



**E MODIFIED 0\"/>**

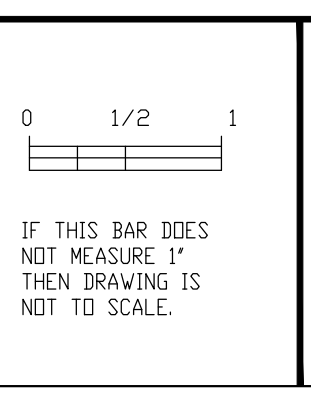
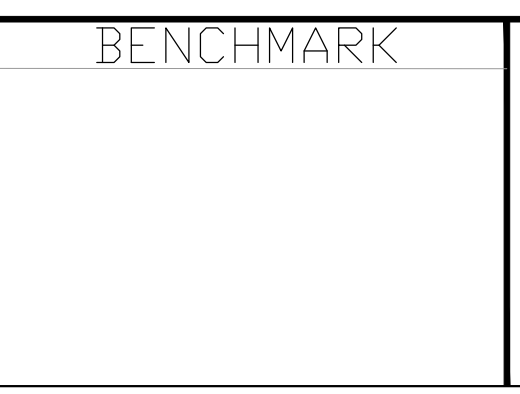


**F CURB AND GUTTER TRANSITION**  
NOT TO SCALE



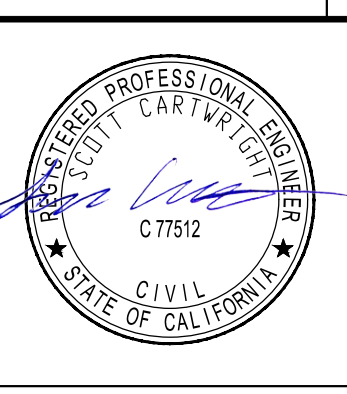
- NOTES:**
1. CONCRETE SHALL BE 520-C-2500.
  2. SEE SDRSD G-9 AND G-10 FOR JOINT DETAILS
  3. SLOPE TOP OF CURB 2% MAX TOWARDS GUTTER.

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS



**COR**  
3900 Fifth Avenue, Suite 310 • San Diego, CA 92103 • 619.795.6086

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STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

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SECTION 4216/4217 OF THE STATE OF CA GOV CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. CALL AT LEAST TWO DAYS BEFORE YOU DIG.

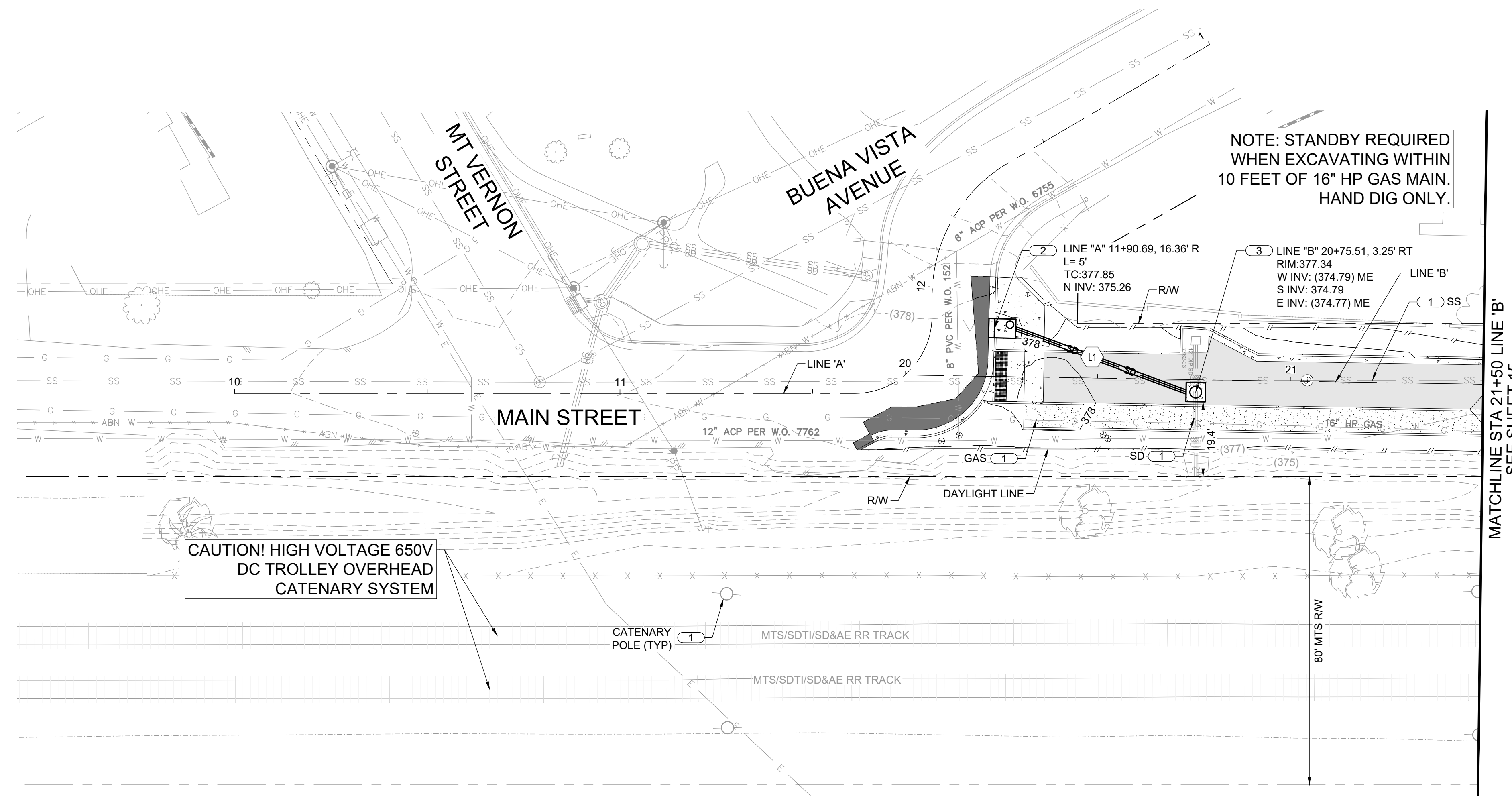
CONSTRUCTION DETAILS FOR: CONNECT MAIN STREET PHASE 3				
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 13 OF 37 SHEETS		7/20/23		TM/TPM
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	CRA			
AS-BUILTS				
CONTRACTOR		DATE STARTED		
INSPECTOR		DATE COMPLETED		
				R23-02-13

FINAL CONSTRUCTION DRAWINGS



**CONSTRUCTION NOTES**

- 1 PROTECT IN PLACE
- 2 CONSTRUCT CURB INLET TYPE B PER SDRSD D-02, L=5', X=4', Y=4'
- 3 CONSTRUCT STORM DRAIN CLEANOUT TYPE A PER SDRSD D-09

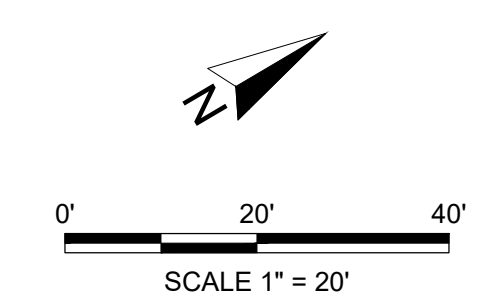


CAUTION! HIGH VOLTAGE 650V DC TROLLEY OVERHEAD CATENARY SYSTEM

NOTE: STANDBY REQUIRED WHEN EXCAVATING WITHIN 10 FEET OF 16" HP GAS MAIN. HAND DIG ONLY.

MATCHLINE STA 21+50 LINE 'B' SEE SHEET 15

LINE	LENGTH	LINE/CHORD DIRECTION	REMARKS
L1	47.16'	S50°55'37"W	12" PVC SDR-35 @ 1%



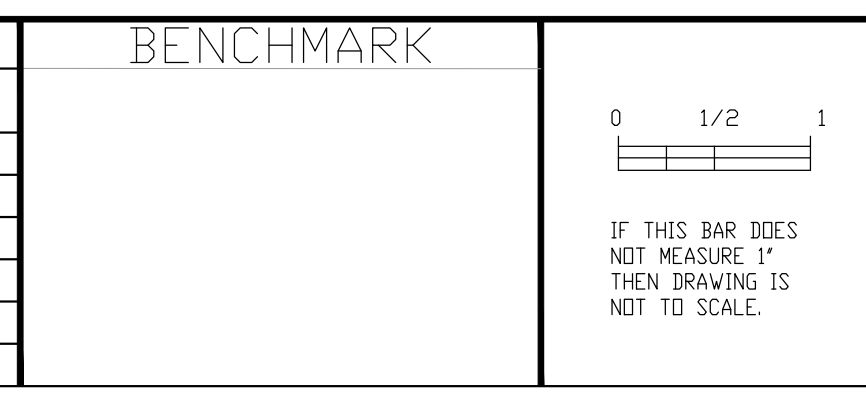
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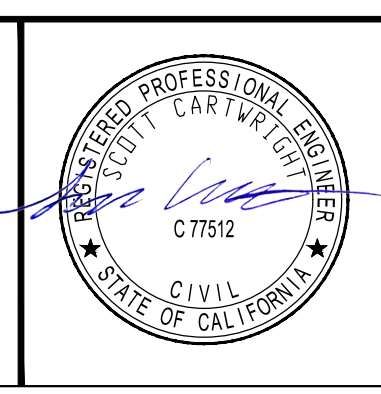
<b>STORM DRAIN &amp; BMP PLANS FOR:</b>			
<b>CONNECT MAIN STREET</b>			
<b>PHASE 3</b>			
<b>STA 10+00 TO 13+00 &amp; STA 20+00 TO STA 21+50</b>			
CITY OF LEMON GROVE, CALIFORNIA		DEVELOPMENT SERVICES DEPARTMENT	
SHEET 14 OF 37 SHEETS			
FOR CITY ENGINEER*		DATE	TM/TPM
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	CRA		
AS-BUILTS			
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		R23-02-14	

STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS



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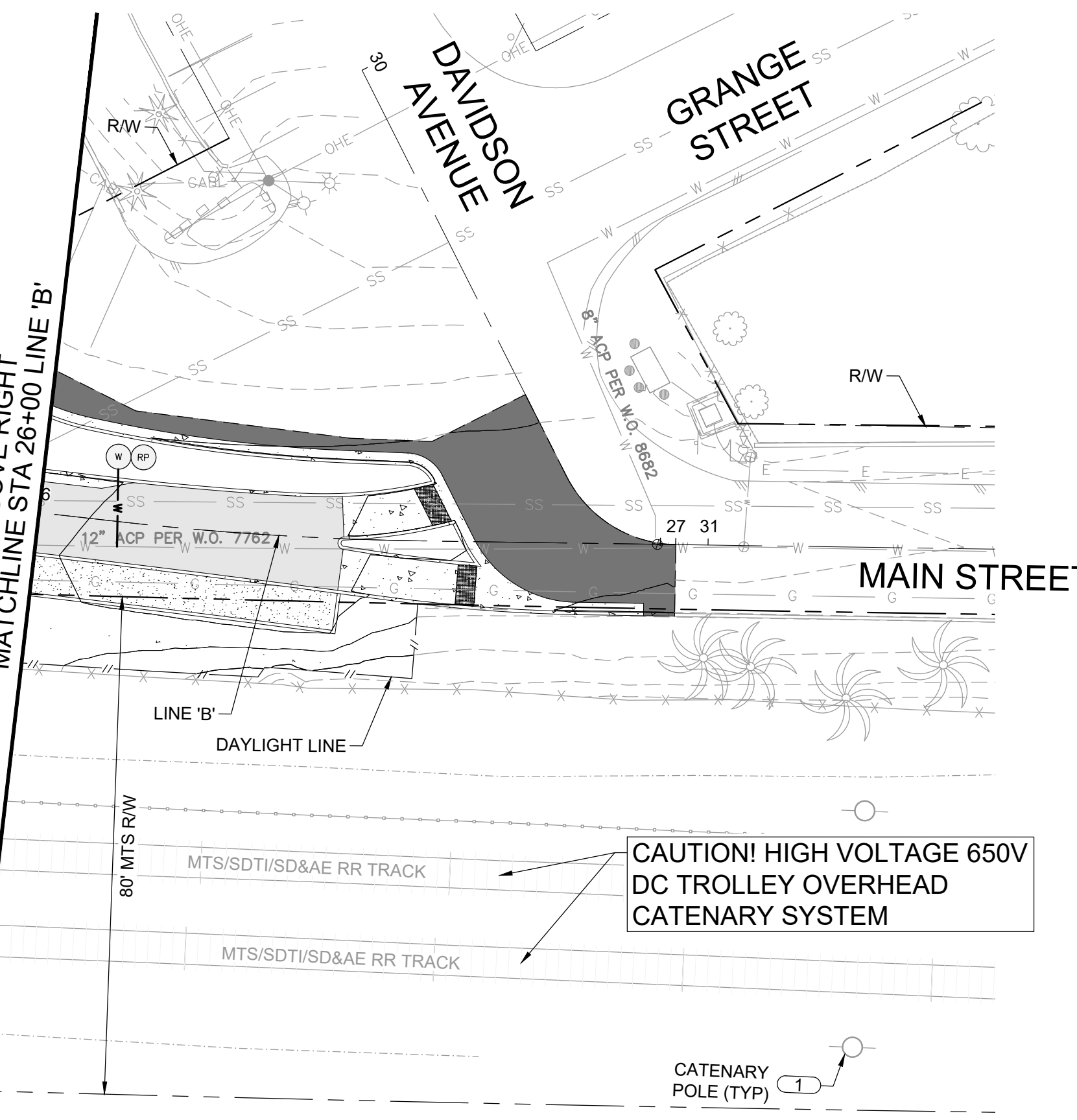
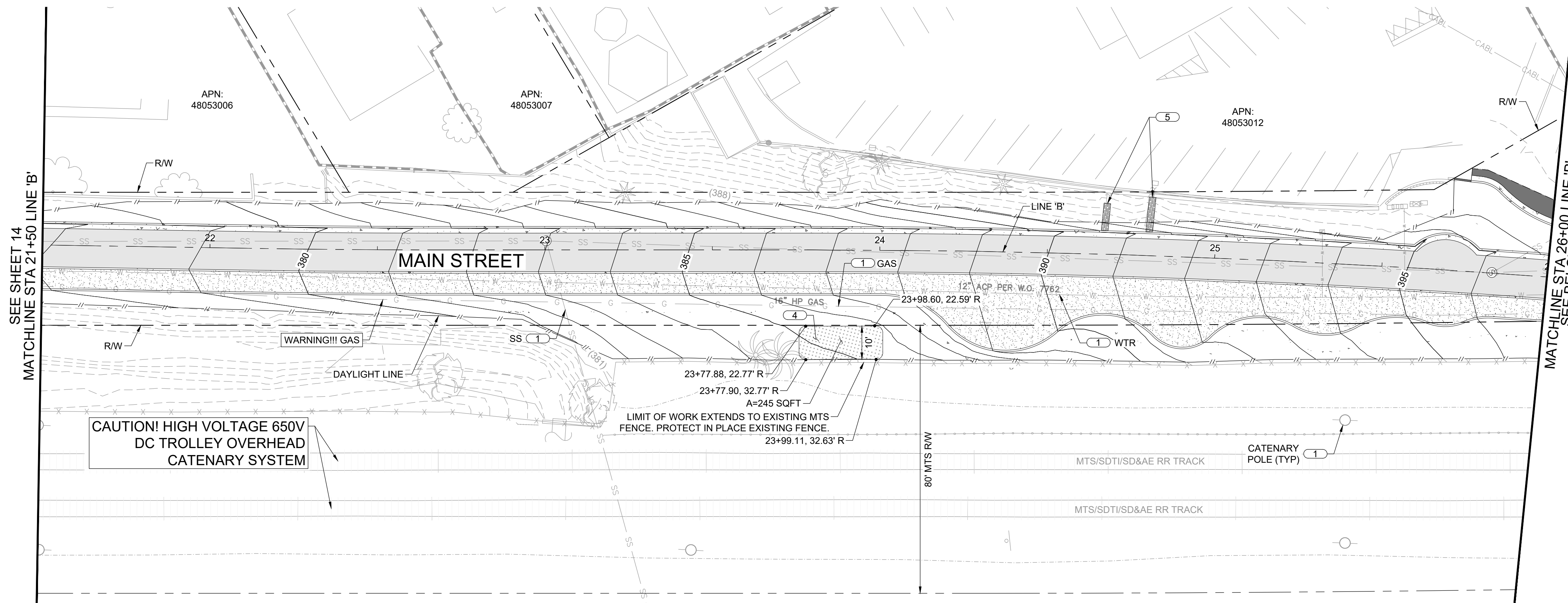


FINAL CONSTRUCTION DRAWINGS

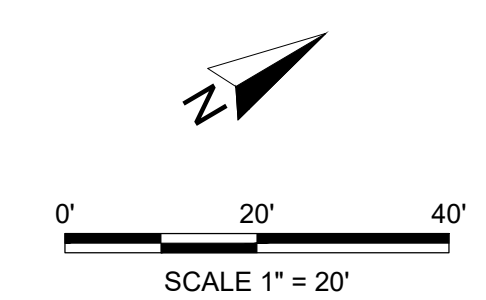


**CONSTRUCTION NOTES**

- 1 PROTECT IN PLACE
- 4 CONSTRUCT DISPERSION AREA FILTER STRIP PER DETAIL G ON SHEET 16
- 5 ROCK V-DITCH, 24" WIDE, 3" DEEP. TRANSITION TO MATCH PIPE INVERT AT UPSTREAM END AND TOP OF CURB ON DOWNSTREAM END. SEE LANDSCAPE PLANS FOR MATERIAL INFORMATION.



NOTE: STANDBY REQUIRED WHEN EXCAVATING WITHIN 10 FEET OF 16\"/>

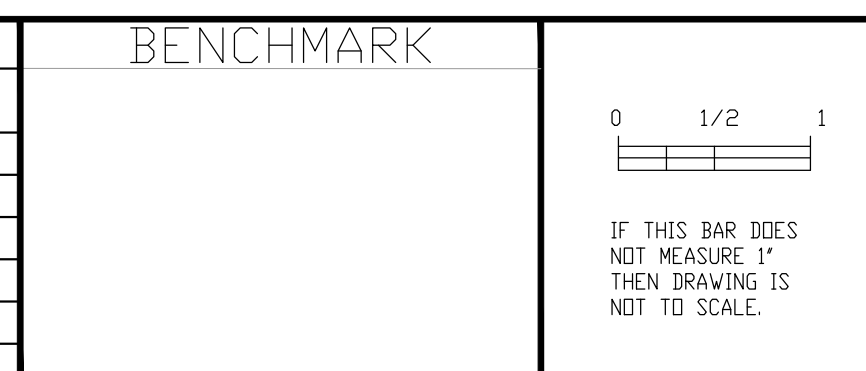


**811** Know what's below. Call before you dig.

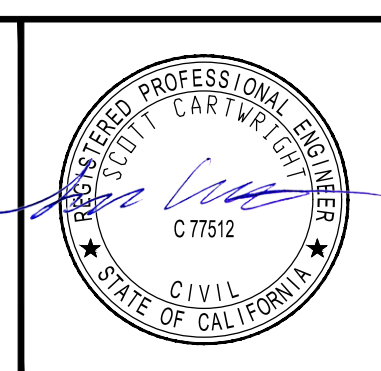
SECTION 4216/4217 OF THE STATE OF CA GOV CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. CALL AT LEAST TWO DAYS BEFORE YOU DIG.

STORM DRAIN & BMP PLANS FOR: <b>CONNECT MAIN STREET PHASE 3</b> STA 21+50 TO STA 26+89 & STA 30+00 TO STA 34+50			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 15 OF 37 SHEETS			
DATE	7/20/23	DATE	7/20/23
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	CRA		
AS-BUILTS			
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
			1848-6321 NAD83 COORDINATES 206-1755 & 210-1755 LAMBERT COORDINATES  R23-02-15

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS



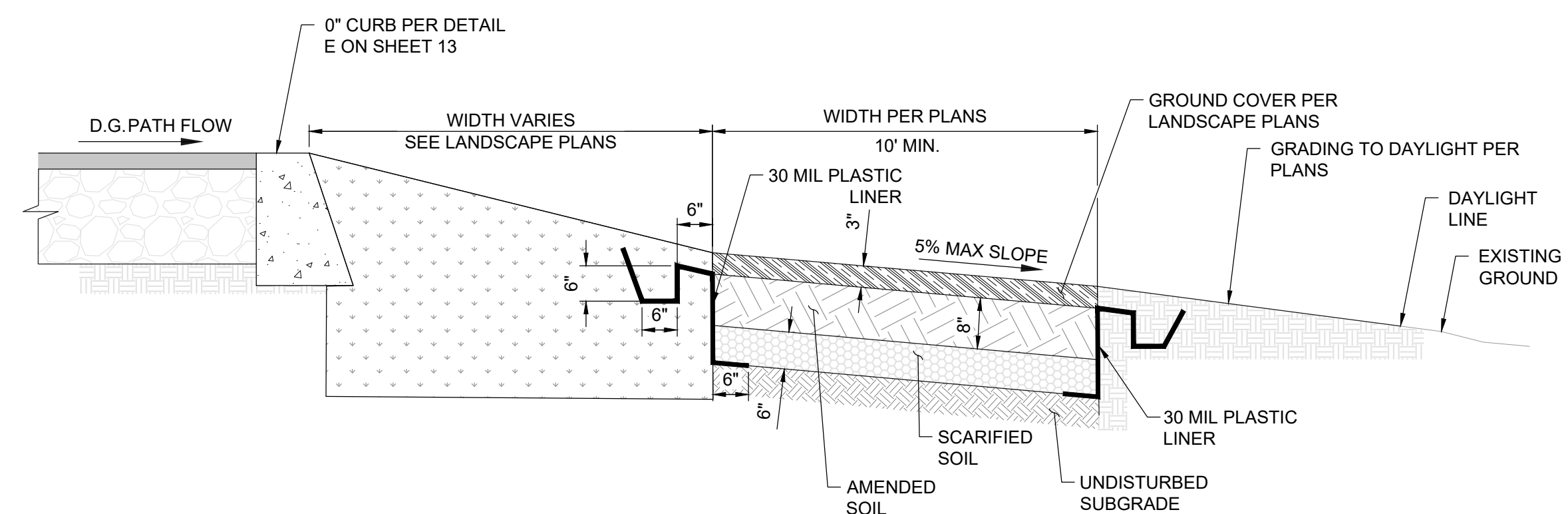
CAUTION! LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.



STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

FINAL CONSTRUCTION DRAWINGS





NOTE: STANDBY REQUIRED  
WHEN EXCAVATING WITHIN  
10 FEET OF 16" HP GAS MAIN.  
HAND DIG ONLY.

**G** DISPERSION AREA FILTER STRIP  
NOT TO SCALE



SECTION 4216/4217 OF THE STATE OF CA GOV CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. CALL AT LEAST TWO DAYS BEFORE YOU DIG.

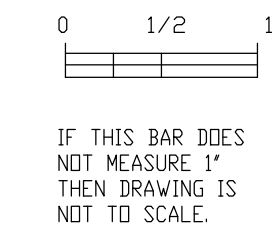
**STORM DRAIN & BMP DETAILS FOR:  
CONNECT MAIN STREET  
PHASE 3**

CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 16 OF 37 SHEETS				DATE: 7/20/23	TM/TPM
DESCRIPTION	BY	APPROVED	DATE	FILMED	
ORIGINAL	CRA				1848-6321 NAD83 COORDINATES
AS-BUILTS					206-1755 & 210-1755 LAMBERT COORDINATES
CONTRACTOR _____ DATE STARTED _____					R23-02-16
INSPECTOR _____ DATE COMPLETED _____					

**CONSTRUCTION CHANGE TABLE**

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

**BENCHMARK**

**CAUTION!**  
LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.



**STREET DATA TABLE**

STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

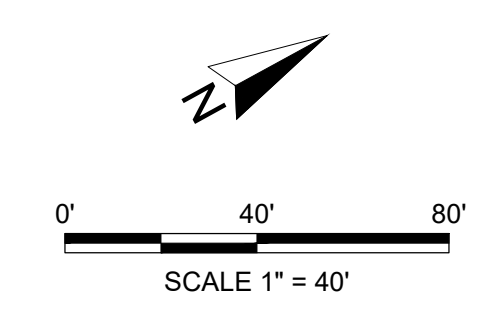
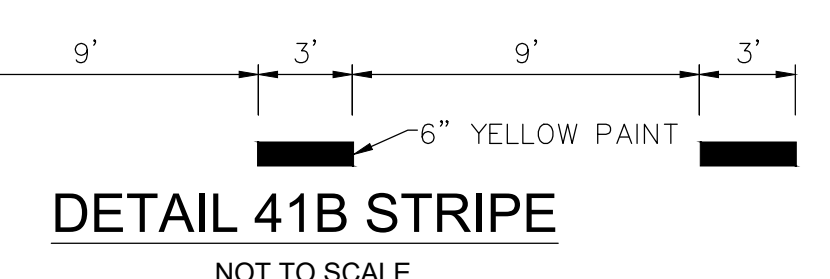


**LEGEND**

- (XX') EXISTING LANE WIDTH
- XX' NEW LANE WIDTH OR LENGTH OF NEW STRIPING
- (XX) STRIPING DETAIL PER LATEST CALTRANS STANDARD PLANS
- EXISTING SIGN
- NEW SIGN
- BIKE LANE ARROW PER CALTRANS STANDARD PLAN A24A
- BIKE LANE SYMBOL WITH PERSON PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24C
- SHARED ROADWAY BICYCLE PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24C. PLACE IN CENTER OF TRAVEL LANE UNLESS OTHERWISE SHOWN
- "STOP" PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24D
- "STOP" PAVEMENT MARKING FOR BIKE LANE. SEE DETAIL ON THIS SHEET
- TYPE I BARRICADE
- CLASS I DELINEATOR

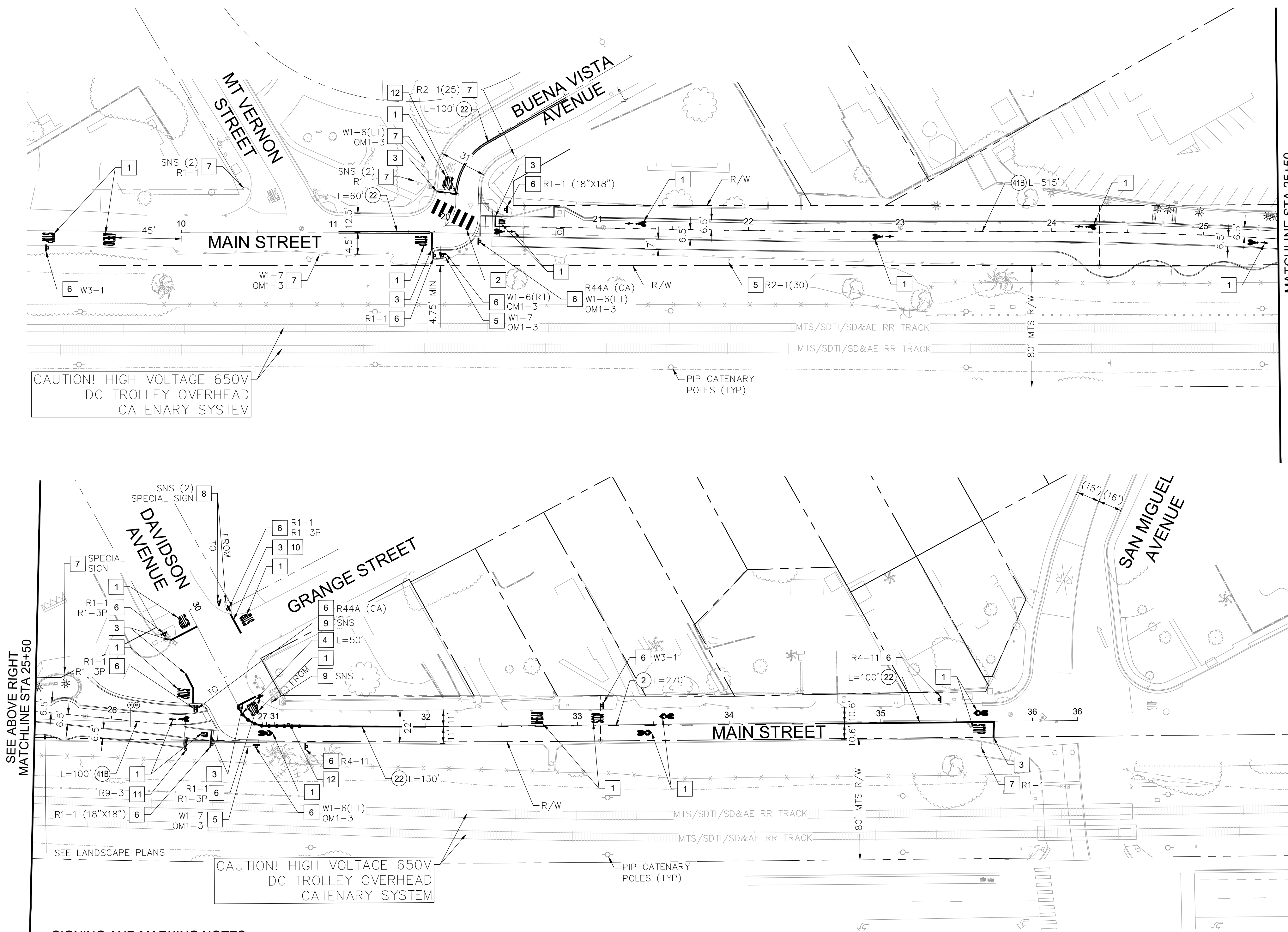
**SIGNING AND PAVEMENT MARKING GENERAL NOTES**

1. FURNISH AND INSTALLATION OF ALL STRIPING, SIGNS, PAVEMENT MARKINGS, AND PAVEMENT MARKERS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. ALL STRIPING AND SIGNING SHALL CONFORM TO THE MOST RECENTLY ADOPTED EDITION OF THE FOLLOWING MANUALS UNLESS OTHERWISE NOTED: CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2018 CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, AND SAN DIEGO REGIONAL STANDARD DRAWINGS, AS AMENDED BY THE REGIONAL SUPPLEMENT AMENDMENTS.
3. ALL SIGNING AND STRIPING IS SUBJECT TO THE APPROVAL OF THE CITY ENGINEER PRIOR TO INSTALLATION AND/OR REMOVAL.
4. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING STRIPING, PAVEMENT MARKINGS AND LEGENDS BY SANDBLASTING AND/OR GRINDING. ANY DEBRIS SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
5. SIGN POSTS SHALL BE INSTALLED WITH SQUARE PERFORATED STEEL TUBING WITH A BREAKAWAY BASE PER SAN DIEGO REGIONAL STANDARD DRAWING, M-45.
6. STRIPED CROSSWALKS SHALL HAVE AN INSIDE DIMENSION OF 10 FEET UNLESS INDICATED OTHERWISE.
7. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
8. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AT (619) 825-3810 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO AND UPON COMPLETION OF STRIPING AND SIGNING.
9. ALL SIGNS SHOWN ON SIGNING AND PAVEMENT MARKING PLANS SHALL BE NEW SIGNS PROVIDED AND INSTALLED BY THE CONTRACTOR, EXCEPT FOR EXISTING SIGNS SPECIFICALLY INDICATED TO BE RELOCATED OR TO REMAIN.
10. ALL STRIPING SHALL BE 2-COAT PAINT.
11. ALL SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SHOWN.
12. ALL NEW SIGNS SHALL BE CLEARLY VISIBLE AND NOT BLOCKED BY ANY OBSTRUCTIONS. THE CONTRACTOR IS RESPONSIBLE TO TRIM OR REMOVE ANY VEGETATION BLOCKING NEW SIGNS.
13. ALL NEW SIGNS SHALL MAINTAIN A MINIMUM 42" WALK PATH.
14. MAINTAIN A MINIMUM OF 12" CLEAR BETWEEN NEW SIGN POSTS AND FOUNDATIONS TO EXISTING UTILITIES.



**811** Know what's below. Call before you dig.  
SECTION 4216/4217 OF THE STATE OF CA GOV CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. CALL AT LEAST TWO DAYS BEFORE YOU DIG.

SIGNING AND PAVEMENT MARKING PLANS FOR:			
CONNECT MAIN STREET PHASE 3			
MT VERNON ST TO SAN MIGUEL AVE			
CITY OF LEMON GROVE, CALIFORNIA		DEVELOPMENT SERVICES DEPARTMENT	
SHEET 17 OF 37 SHEETS		DATE: 7/20/23	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	CRA		
AS-BUILTS			
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		1848-6321 NADB3 COORDINATES	
		206-1755 & 210-1755 LAMBERT COORDINATES	
		R23-02-17	



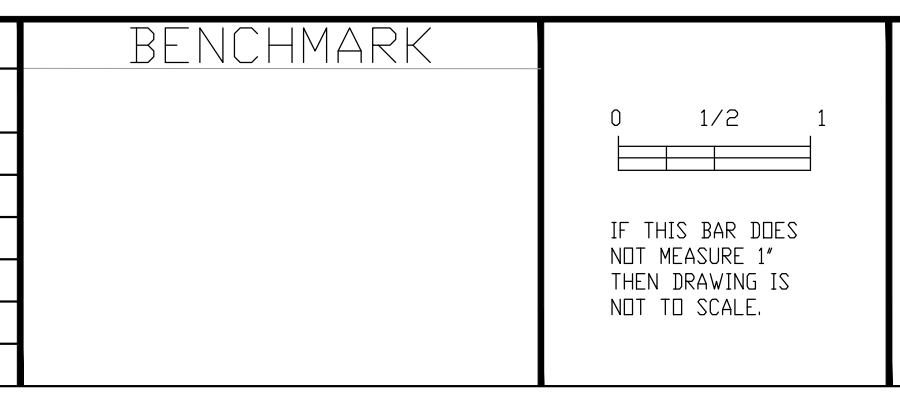
**SIGNING AND MARKING NOTES**

- |  |  |
|--|--|
| 1 FURNISH AND INSTALL THERMOPLASTIC PAVEMENT MARKING PER CALTRANS STD PLAN. SEE LEGEND   | 7 EXISTING SIGN TO REMAIN  |
| 2 FURNISH AND INSTALL 2'x10' WHITE (UNLESS NOTED OTHERWISE) THERMOPLASTIC CONTINENTAL CROSSWALK AT 5' INTERVALS CENTER TO CENTER PER CALTRANS STANDARD PLAN RSP A24F | 8 EXISTING SIGN AND POST TO BE RELOCATED   |
| 3 FURNISH AND INSTALL 12" WHITE THERMOPLASTIC LIMIT LINE MINIMUM 4' FROM CROSSWALK WHERE SHOWN   | 9 EXISTING SIGN PANEL TO BE RELOCATED  |
| 4 FURNISH AND INSTALL TYPE G (2 SIDED) CLASS I FLEXIBLE POST DELINEATORS AT 5' MAXIMUM SPACING PER CALTRANS STANDARD PLAN A73C FOR 50'                               | 10 LIMIT LINE SHALL BE INSTALLED SUCH THAT IT DOES NOT ENCR OACH WITHIN LIMITS OF DRIVEWAY   |
| 5 EXISTING SIGN TO BE REMOVED AND SALVAGED. DELIVER TO CITY OF LEMON GROVE.  | 11 FURNISH AND INSTALL TYPE II BARRICADE WITH R5-10b (MOD) SIGN PER CALTRANS STD. PLAN ES-7Q |
| 6 FURNISH AND INSTALL NEW SIGN ON BREAK-AWAY POST PER SDRSD M-45 UNLESS OTHERWISE SHOWN  | 12 FURNISH AND INSTALL TYPE D BLUE RETROREFLECTIVE PAVEMENT MARKER 6" FROM CENTER LINE       |

**STRIPING DETAILS**

- 2 INSTALL YELLOW CENTERLINE (DETAIL 2) PER CALTRANS STD. PLAN RSP A20A
- 22 INSTALL YELLOW TWO DIRECTION NO PASSING ZONE (DETAIL 22) PER CALTRANS STD. PLAN RSP A20A
- 41B INSTALL YELLOW LANE LINE (DETAIL 41B). SEE DETAIL ON THIS SHEET

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS



**COR**  
3900 Fifth Avenue, Suite 310 • San Diego, CA 92103 • 619.795.6086

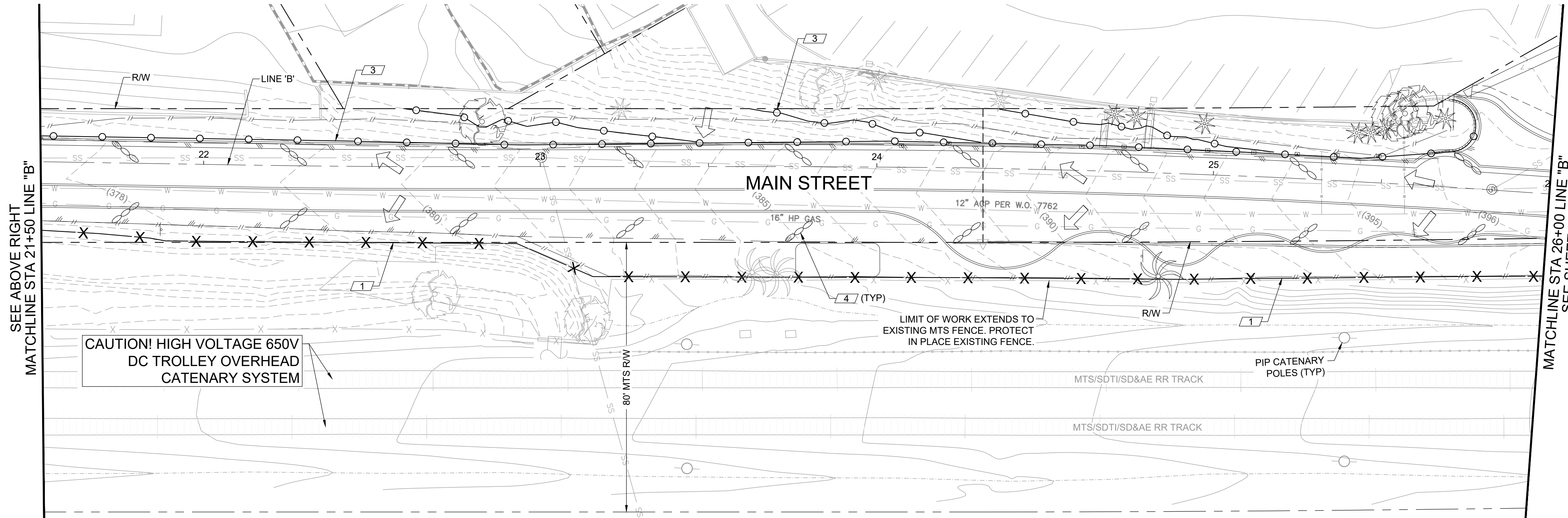
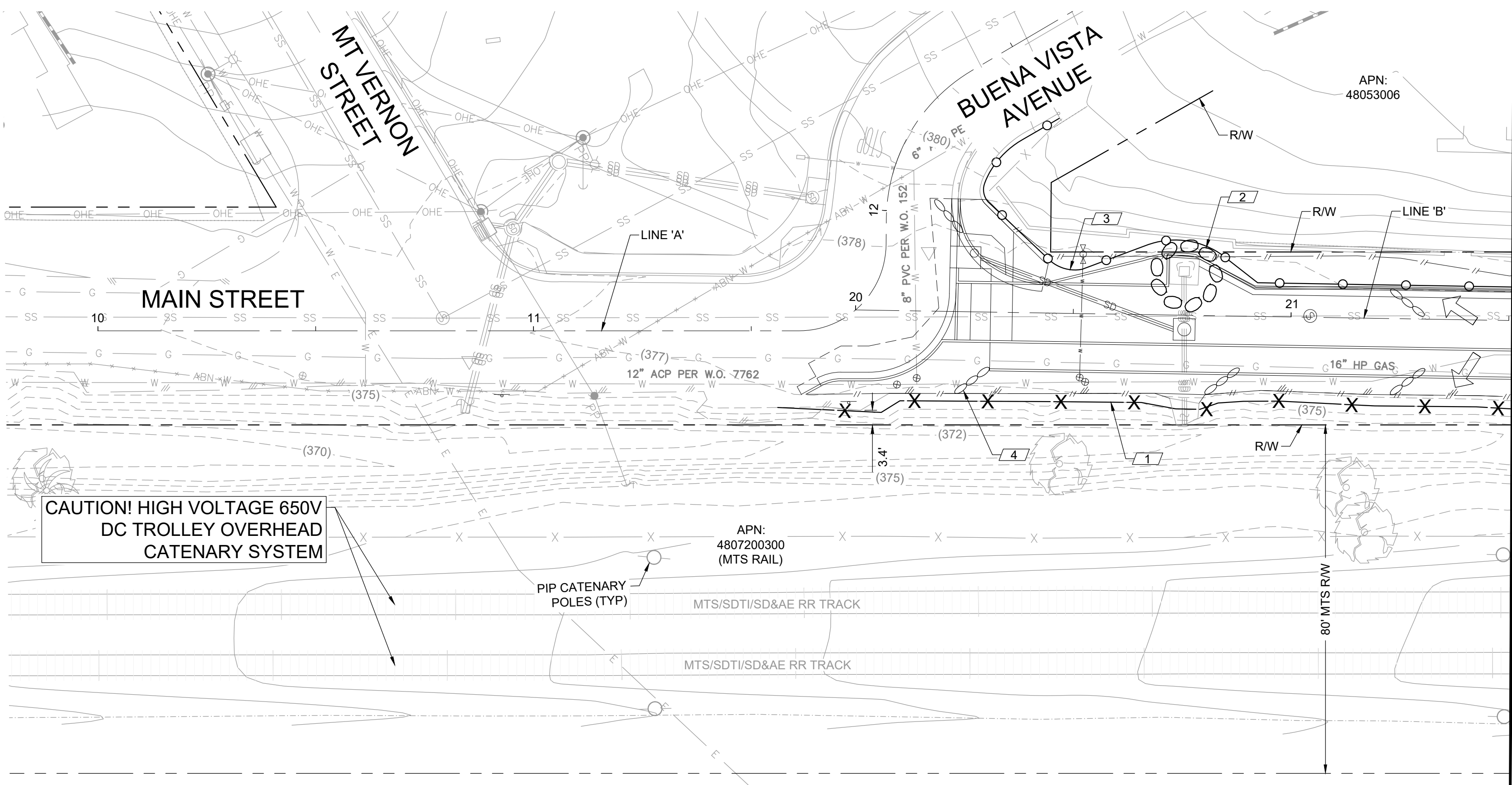
CAUTION! LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.



STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

FINAL CONSTRUCTION DRAWINGS





**LEGEND:**

- FLOW DIRECTION
- GRAVEL BERM BAG
- SILT FENCE
- FIBER ROLLS
- EXISTING STORM DRAIN

**EROSION CONTROL NOTES:**

- 1. INSTALL SILT FENCE PER DETAIL A ON SHEET 20
- 2. INSTALL CURB INLET PROTECTION PER DETAIL B ON SHEET 20
- 3. INSTALL FIBER ROLLS PER DETAIL C ON SHEET 20
- 4. INSTALL GRAVEL BERM BAGS PER DETAIL D ON SHEET 20

**GENERAL NOTES**

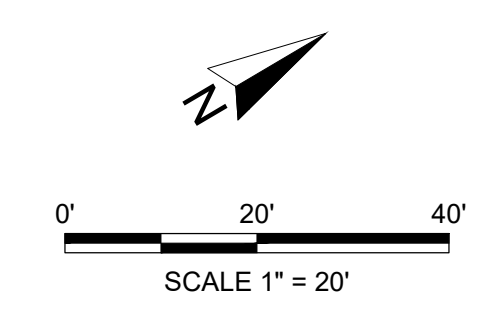
- 1. CONTRACTOR SHALL SEAL OR PROTECT NEW INLETS THAT ARE INSTALLED UNTIL SUCH TIME THAT THE INLET'S TRIBUTARY AREA IS STABILIZED.
- 2. IMPROVEMENTS SHOWN FOR REFERENCE ONLY. SEE IMPROVEMENT PLANS FOR PROPOSED IMPROVEMENTS

**SWPPP NOTES**

- 1. TEMPORARY ON-SITE DRAINAGE TO CARRY CONCENTRATED FLOW SHALL BE SELECTED TO COMPLY WITH CITY REQUIREMENTS TO CONTROL EROSION, TO RETURN FLOWS THEIR NATURAL DRAINAGE COURSES, AND TO PREVENT DAMAGE TO DOWNSTREAM PROPERTIES.
- 2. DISCHARGES ORIGINATING FROM OFF-SITE WHICH FLOW ACROSS OR THROUGH AREAS DISTURBED BY CONSTRUCTION THAT MAY CONTAIN POLLUTANTS, SHOULD BE REPORTED TO THE CITY.
- 3. SEDIMENT CONTROL BMP'S ARE REQUIRED AT APPROPRIATE LOCATIONS ALONG THE SITE PERIMETER AND AT ALL OPERATIONAL INTERNAL INLETS TO THE STORM DRAIN SYSTEM AT ALL TIMES.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ADEQUATE SEDIMENT CONTROL MATERIALS ARE AVAILABLE TO CONTROL SEDIMENT DISCHARGES AT THE DOWNGRADE PERIMETER AND OPERATIONAL INLETS (WEATHER AND STORM PREDICTIONS CAN BE OBTAINED BY CALLING THE NATIONAL WEATHER SERVICE AT (858) 675-8700 OR BY VISITING THE NATIONAL WEATHER SERVICE WEBSITE AT [HTTP://WWW.WRH.NOAA.GOV/SANDEGO/INDEX.SHTML](http://www.wrh.noaa.gov/sandiego/index.shtml). FOR WEATHER INFORMATION AND CURRENT SATELLITE/RADAR FEEDS).
- 5. THE OUTLETS OF ALL SEDIMENT BASINS, TRAPS, AND LOCATIONS OF ARTIFICIALLY CONCENTRATED FLOW SHALL BE PROVIDED WITH OUTLET PROTECTION TO PREVENT EROSION AND SCOUR.
- 6. INDIVIDUALS RESPONSIBLE FOR SWPPP, IMPLEMENTATION, AND PERMIT COMPLIANCE SHALL BE APPROPRIATELY TRAINED. THIS INCLUDES THOSE PERSONNEL RESPONSIBLE FOR INSTALLATION, INSPECTION, MAINTENANCE, AND REPAIR OF BMP'S. THOSE RESPONSIBLE FOR OVERSEEING, REVISING, AND AMENDING THE SWPPP SHALL ALSO DOCUMENT THEIR TRAINING. THE QUALIFIED PERSON SHALL ATTEND THE PRE-CONSTRUCTION MEETING. THE QUALIFIED PERSON SHALL HAVE KNOWLEDGE AND TRAINING OF THE INTENT AND ENFORCEMENT OF SWPPP'S AND BMP'S AND BE PROPERLY TRAINED TO CONDUCT INSPECTIONS AND PREPARE REPORTS OF THE CONSTRUCTION SITE WITH RESPECT TO THE CITY'S MUNICIPAL CODE/ORDINANCES AND THE SWPPP.
- 7. A CONCRETE WASHOUT SHALL BE INSTALLED FOR ALL PROJECTS THAT PROPOSE CONCRETE TO BE MIXED ON SITE OR DELIVERED FROM A BATCH PLANT. THE CONCRETE WASHOUT SHALL BE LOCATED A MINIMUM OF 50' FROM ANY DRAINAGE INFRASTRUCTURE OR NATURAL DRAINAGE FEATURES OR WATER BODIES AND INCORPORATE AN IMPERMEABLE LINER (6 MIL MIN) TO CONTAIN THE REQUIRED VOLUME. ALL DRIED CONCRETE WASTE SHALL BE BROKEN INTO MANAGEABLE PIECES AND DISPOSED OF IN A PROPER MANNER. THE CONTRACTOR OR QUALIFIED PERSON SHALL LOCATE CONCRETE WASHOUTS IN THIS PRESCRIBED MANNER AS CONSTRUCTION PROGRESSES.
- 8. THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER AND SEWER UTILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.
- 9. SEDIMENT AND EROSION CONTROLS MAY BE REMOVED ONLY WHEN CONTRIBUTORY UPSTREAM AREAS BECOME STABILIZED OR ARE MANAGED UPSTREAM (I.E., SINGLE-LOT SEDIMENT CONTROLS) AND AS LONG AS SEDIMENT LADEN RUNOFF WILL NOT DISCHARGE FROM THE SITE.
- 10. THIS PLAN SHALL BE IN EFFECT UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED, TRANSFERRED TO NEW OWNERSHIP, OR DEVELOPED UNDER FUTURE PLANS WITH AN NEW NOI, SWPPP, AND WDD NUMBER.

**EROSION AND SEDIMENT CONTROL NOTES**

- TEMPORARY EROSION SEDIMENT CONTROL PRIOR TO COMPLETION OF FINAL IMPROVEMENTS. SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW.
- 1. ALL REQUIREMENTS OF THE CITY OF LEMON GROVE MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP), WATER QUALITY TECHNICAL REPORT (WQTR), AND/OR WATER POLLUTION CONTROL PLAN (WPCP)
  - 2. THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
  - 3. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
  - 4. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
  - 5. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE CITY ENGINEER.
  - 6. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
  - 7. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING, FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.



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TEMPORARY WATER POLLUTION CONTROL PLANS FOR:				
CONNECT MAIN STREET PHASE 3				
STA 10+00 TO STA 26+00				
CITY OF LEMON GROVE, CALIFORNIA		DEVELOPMENT SERVICES DEPARTMENT		
SHEET 18 OF 37 SHEETS		7/20/23		
DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	CRA			
AS-BUILTS				
CONTRACTOR		DATE STARTED		
INSPECTOR		DATE COMPLETED		
				R23-02-18

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

**BENCHMARK**

**C R**

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CAUTION! LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

REGISTERED PROFESSIONAL ENGINEER  
CITY OF LEMON GROVE  
C77512  
STATE OF CALIFORNIA



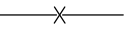


**LEMON GROVE**  
BEST QUALITY. BEST SERVICE. BEST VALUE.

STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

FINAL CONSTRUCTION DRAWINGS



**LEGEND:**

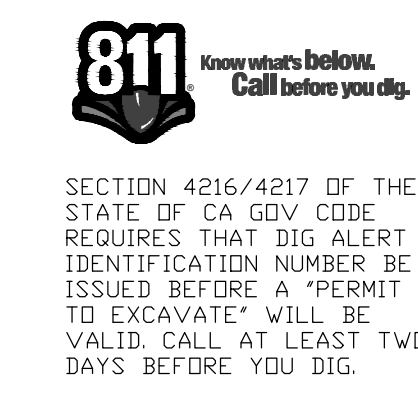
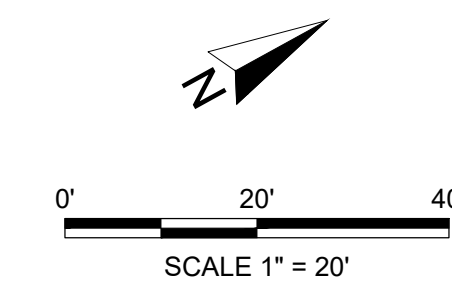
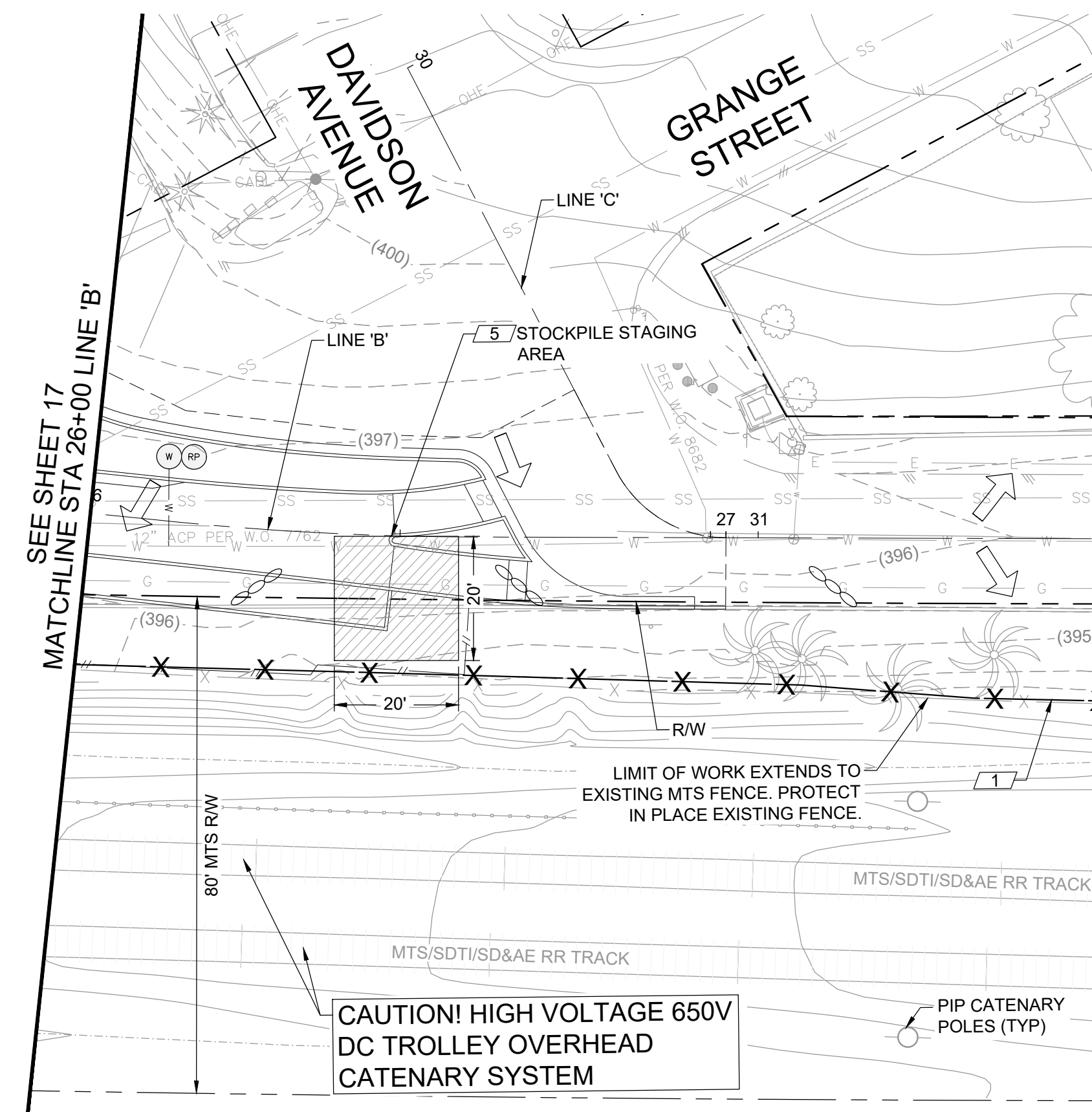
-  FLOW DIRECTION
-  GRAVEL BERM BAG
-  SILT FENCE
-  FIBER ROLLS
-  EXISTING STORM DRAIN

**EROSION CONTROL NOTES:**

1. INSTALL SILT FENCE PER DETAIL A ON SHEET 20
2. INSTALL CURB INLET PROTECTION PER DETAIL B ON SHEET 20
3. INSTALL FIBER ROLLS PER DETAIL C ON SHEET 20
4. INSTALL GRAVEL BERM BAGS PER DETAIL D ON SHEET 20
5. INSTALL STOCK PILE PROTECTION PER DETAIL E ON SHEET 20

**GENERAL NOTES**

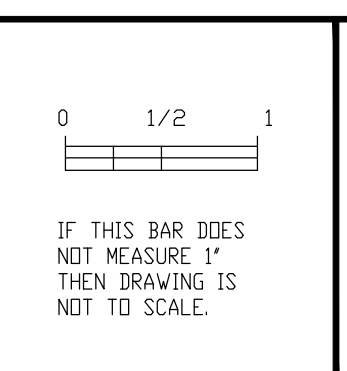
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2. IMPROVEMENTS SHOWN FOR REFERENCE ONLY. SEE IMPROVEMENT PLANS FOR PROPOSED IMPROVEMENTS



TEMPORARY WATER POLLUTION CONTROL PLANS FOR:				
CONNECT MAIN STREET				
PHASE 3				
STA 26+00 TO STA 36+30				
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 19 OF 37 SHEETS				
FOR CITY ENGINEER*		DATE		TM/TPM
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	CRA		7/20/23	
				1848-6321 NAD83 COORDINATES
				206-1755 & 210-1755 LAMBERT COORDINATES
AS-BUILTS				
CONTRACTOR _____ DATE STARTED _____				
INSPECTOR _____ DATE COMPLETED _____				
R23-02-19				

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK

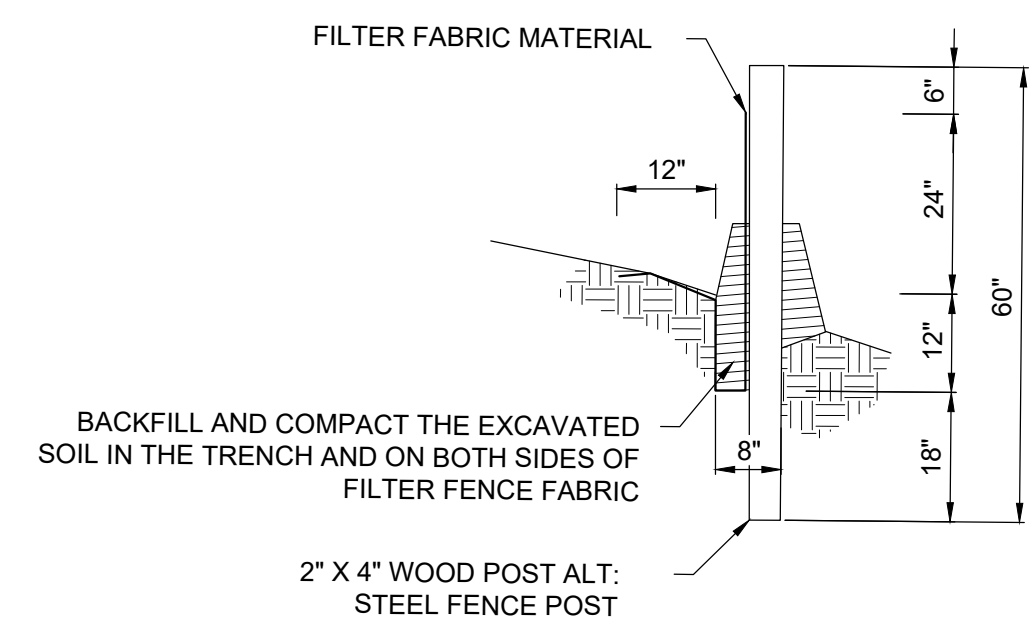
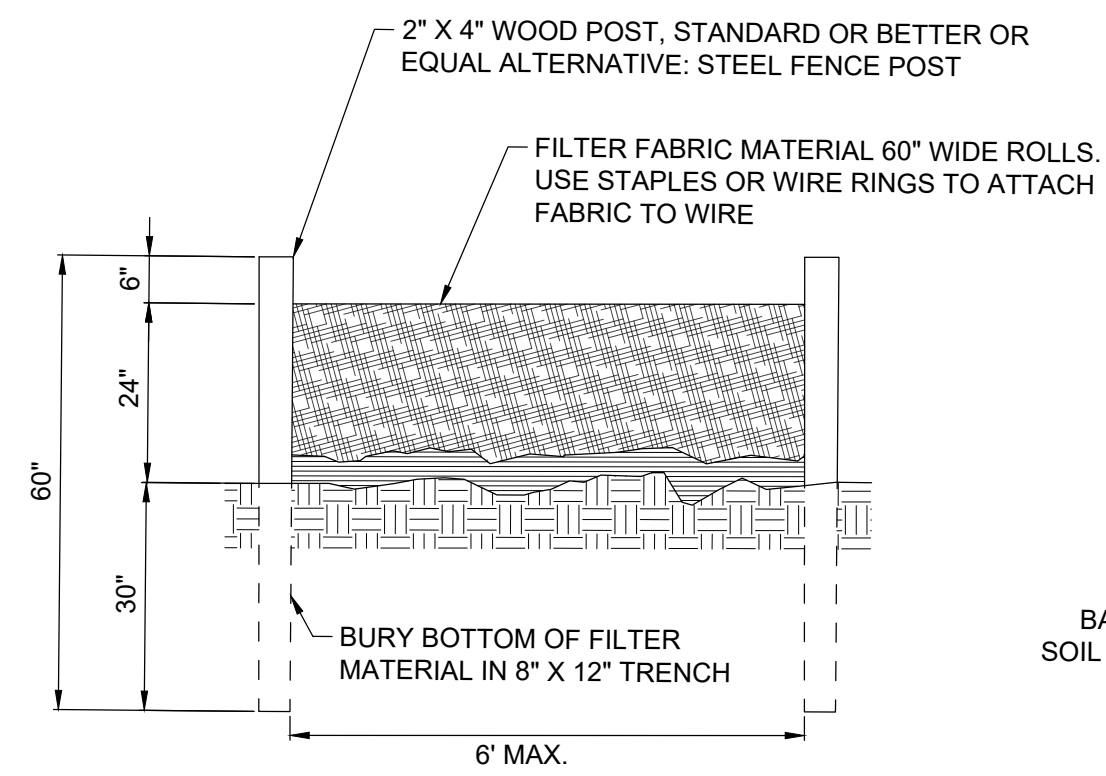


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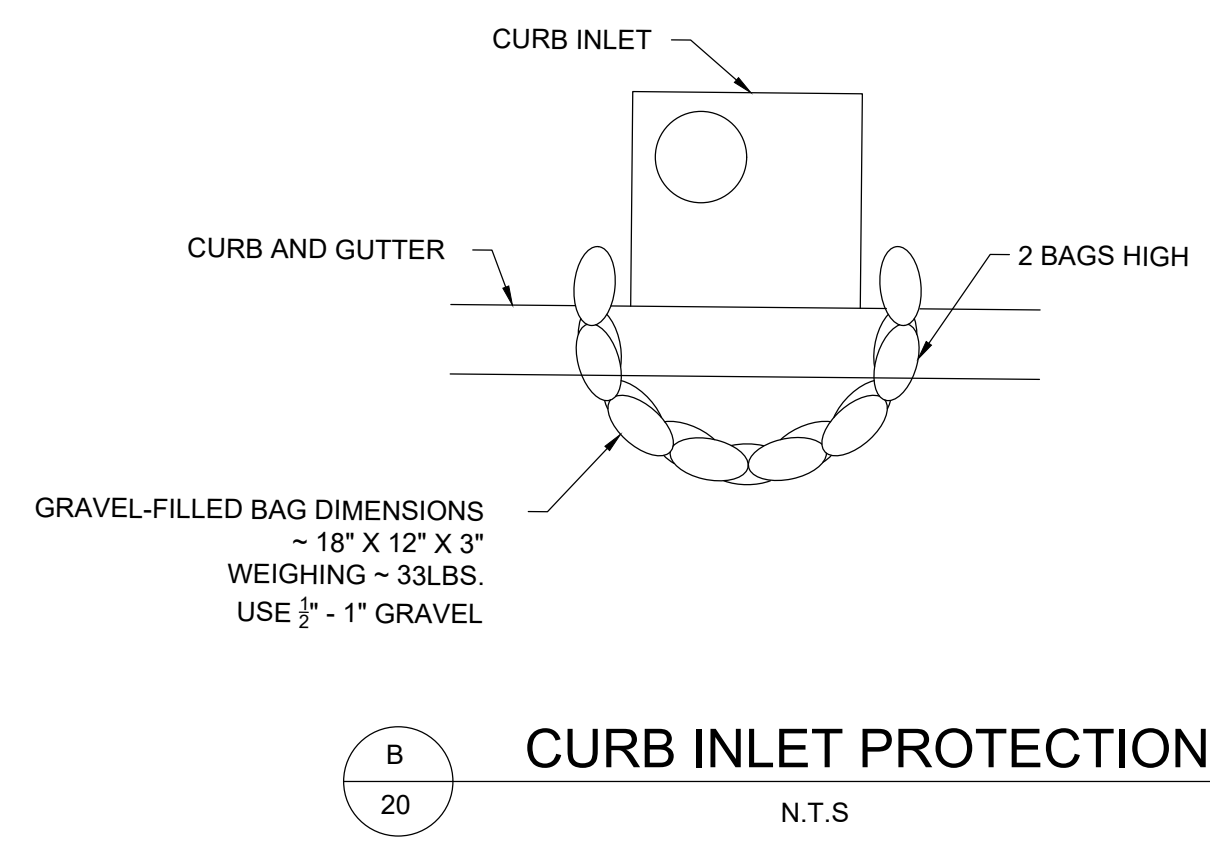
STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40



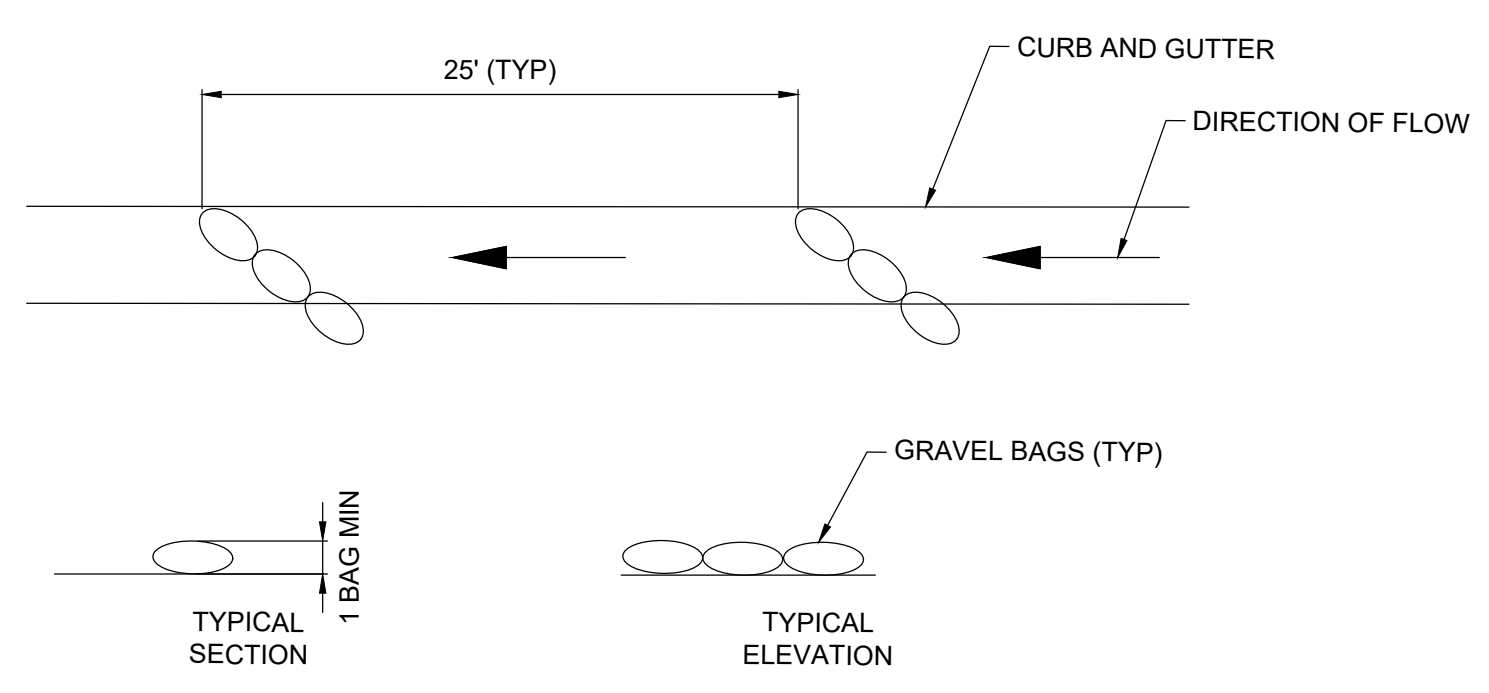


- NOTES:
1. SILT FENCE SHALL BE PLACED ON LEVEL CONTOURS TO MAXIMIZE PONDING EFFICIENCY WHENEVER FEASIBLE.
  2. INSPECT AND REPAIR FENCE AFTER EACH RAIN EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9 INCH MAXIMUM RECOMMENDED STORAGE HEIGHT.
  3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

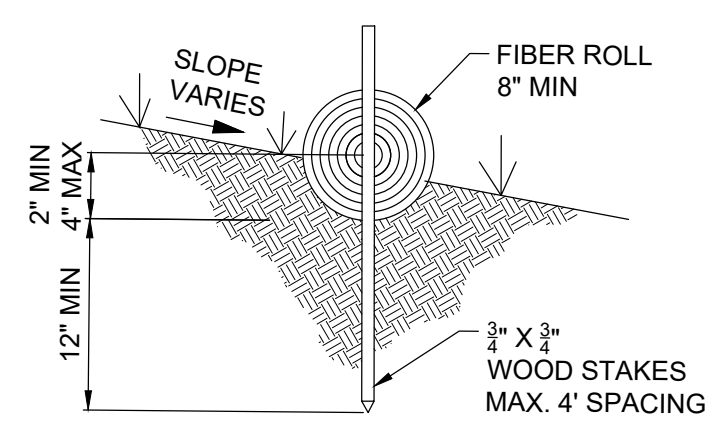
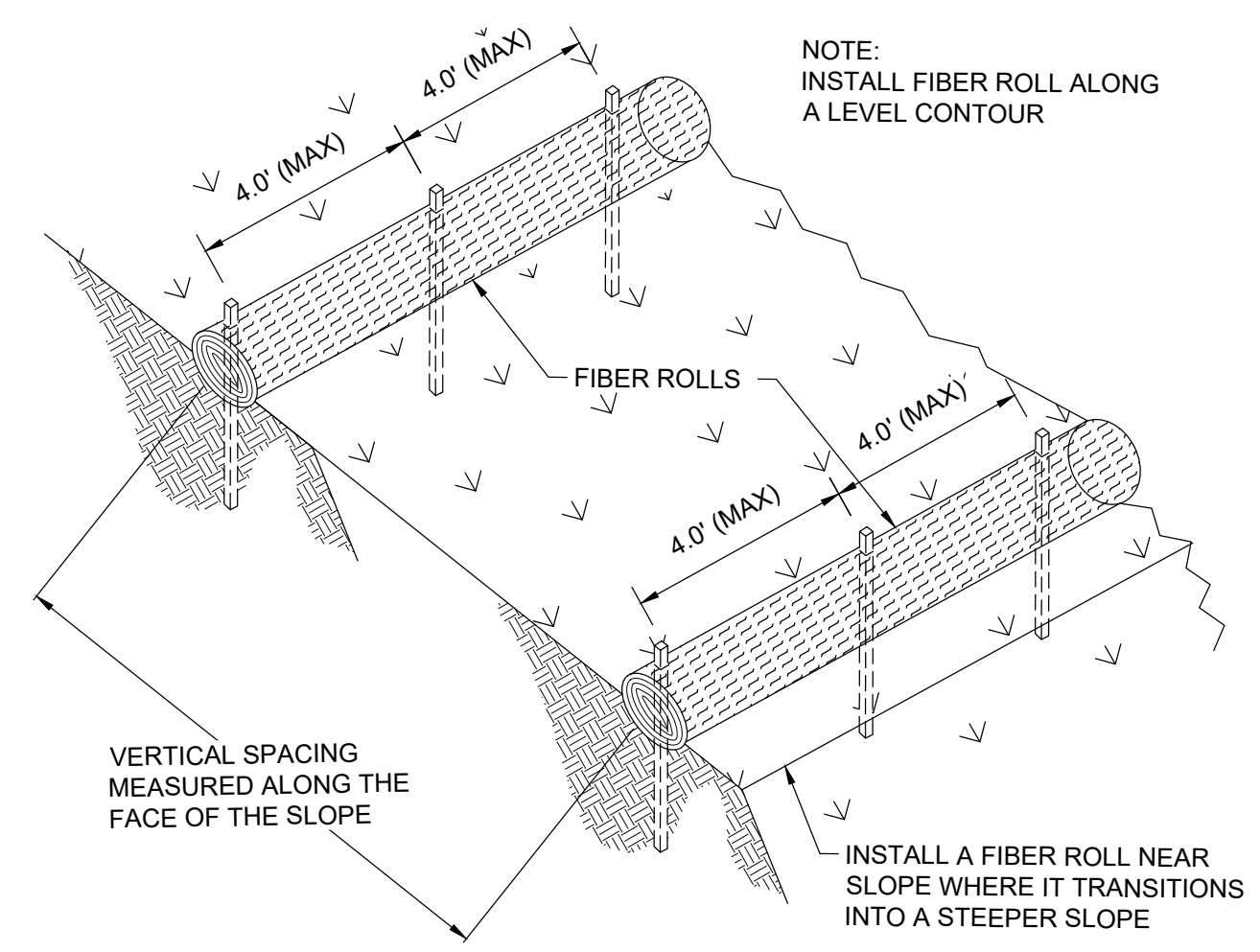
**A**  
20  
**SILT FENCE DETAIL**  
N.T.S.



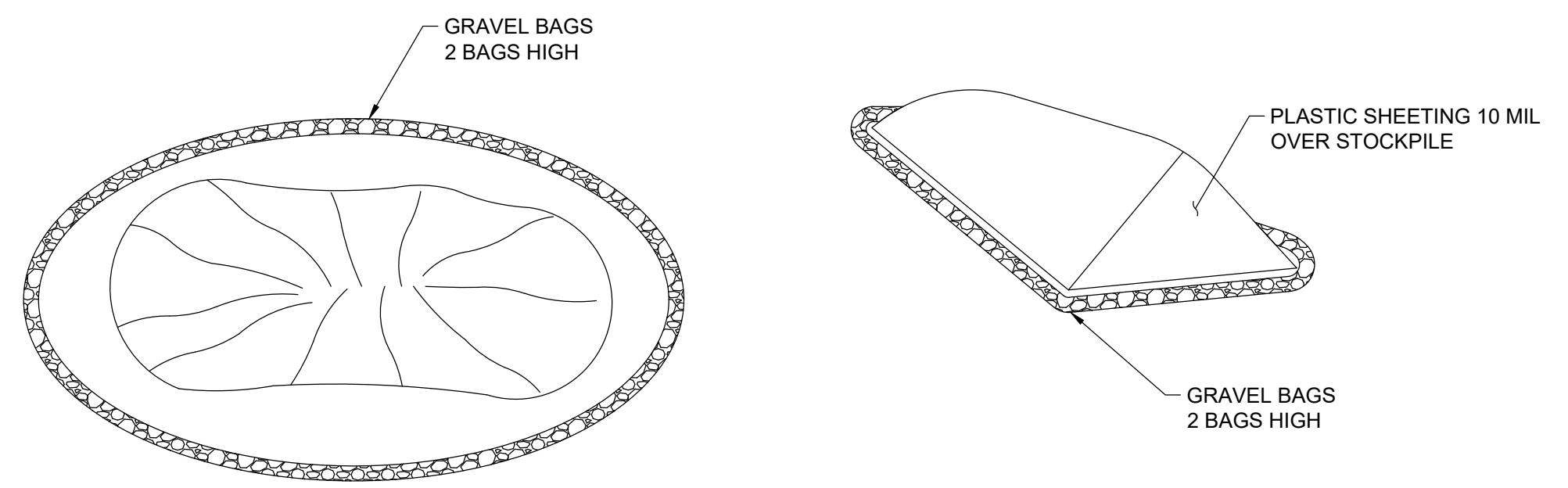
**B**  
20  
**CURB INLET PROTECTION**  
N.T.S.



**D**  
20  
**GRAVEL BAG PLACEMENT**  
N.T.S.



**C**  
20  
**FIBER ROLL DETAIL (SE-5)**  
N.T.S.



NOTE:  
STOCKPILES ARE REQUIRED TO BE COVERED FOR RAIN EVENTS AND AT ALL TIMES IF THE STOCKPILE IS INACTIVE (NOT DISTURBED FOR A PERIOD OF 14 CALENDAR DAYS OR MORE)

**E**  
20  
**STOCK PILE PROTECTION**  
N.T.S.



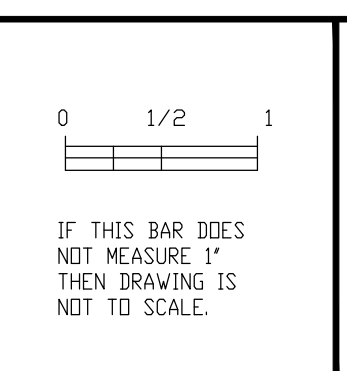
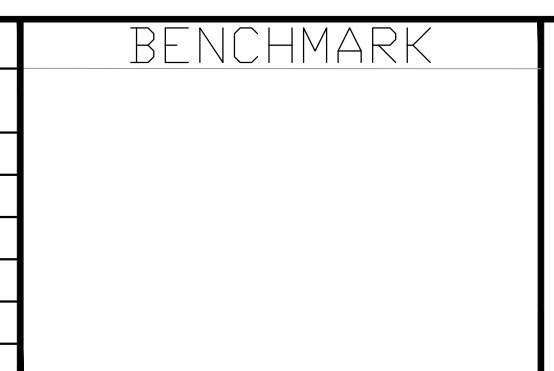
SECTION 4216/4217 OF THE STATE OF CA GOV CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. CALL AT LEAST TWO DAYS BEFORE YOU DIG.

**WATER POLLUTION CONTROL PLANS FOR:  
CONNECT MAIN STREET  
PHASE 3**

CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 20 OF 37 SHEETS		DATE: 7/20/23	TM/TPM
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	CRA		
AS-BUILTS			
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		R23-02-20	

**CONSTRUCTION CHANGE TABLE**

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS



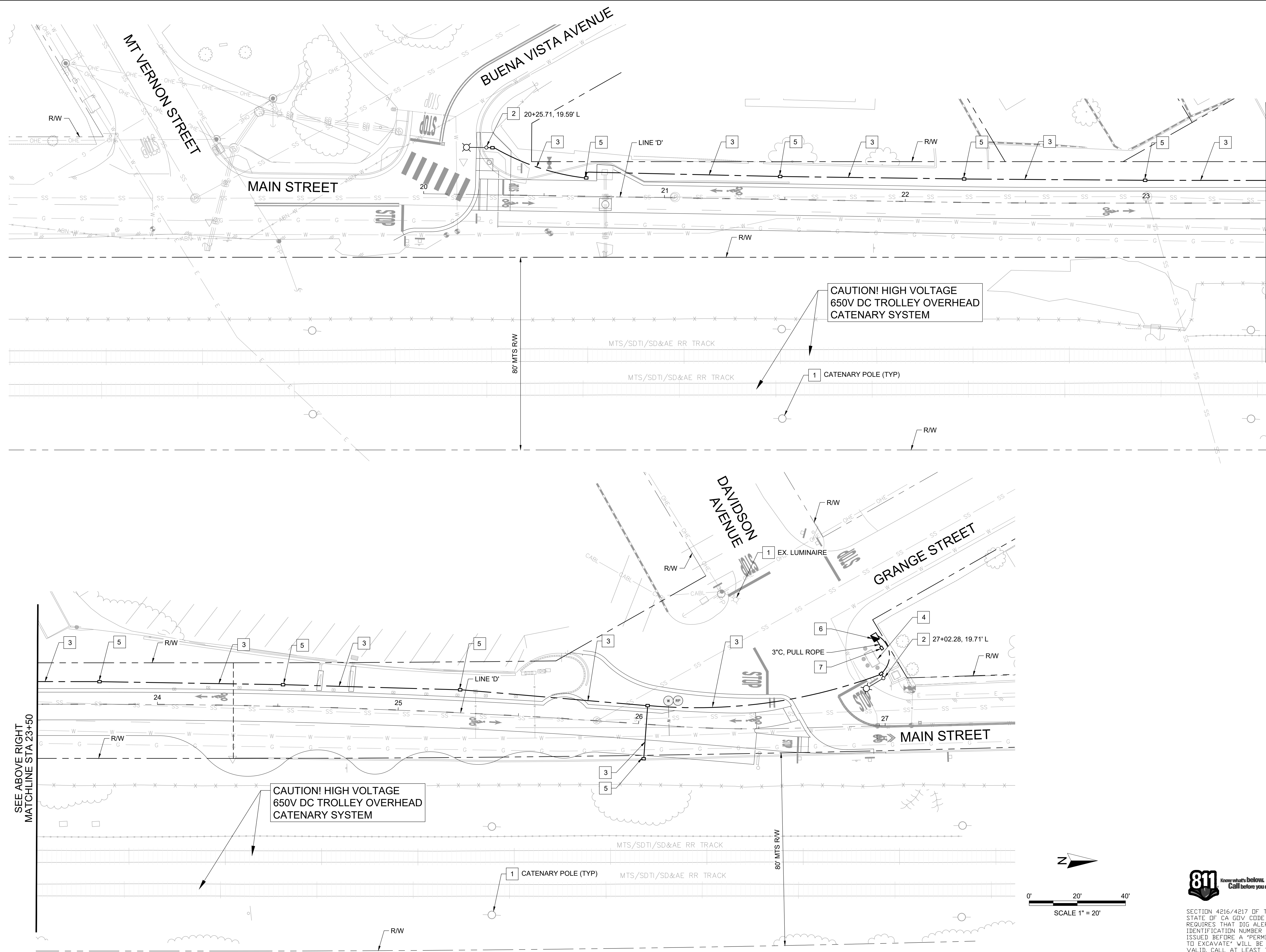
**CAUTION!**  
LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.



**STREET DATA TABLE**

STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40





**LIGHTING AND ELECTRICAL GENERAL NOTES:**

1. ALL POLES, CONDUIT, AND PULL BOX LOCATIONS SHOWN ARE APPROXIMATE. ACTUAL LOCATIONS SHALL BE DETERMINED BY FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND AS DIRECTED BY THE ENGINEER. PULL BOXES SHALL NOT BE PLACED WITHIN THE PEDESTRIAN CURB RAMP AND DRIVEWAYS UNLESS APPROVED BY THE ENGINEER.
2. LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE PRIOR TO INSTALLING EQUIPMENT.
3. CONTRACTOR SHALL POTHOLE EACH STREET LIGHT LOCATION PRIOR TO INSTALLATION. A MINIMUM OF 6 INCHES OF CLEAR SPACE MUST BE PROVIDED FROM THE LIGHT FOUNDATION TO THE ADJACENT UTILITY.
4. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ANY DAMAGES THAT OCCUR DURING INSTALLATION OF ELECTRICAL EQUIPMENT. ALL COSTS FOR ANY REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.
5. PULL BOXES SHALL BE NO. 5(T) AND CONDUIT 2" UNLESS OTHERWISE NOTED. PULL BOXES SHALL BE INSTALLED PER SDRSD I-15.
6. ALL NEW STREET LIGHTS SHALL HAVE A PULLBOX ADJACENT TO THE POLE UNLESS OTHERWISE SHOWN
7. NATIONAL ELECTRICAL CODE (NEC) WIRE COLOR CODING SHALL BE USED FOR ALL ELECTRICAL WORK.
8. ALL TREES AND SHRUBS SHALL BE TRIMMED OR REMOVED AS DETERMINED BY THE ENGINEER AS REQUIRED TO MAINTAIN VISIBILITY AND SIGHT DISTANCE.
9. SEE DEMOLITION PLANS FOR ANY EXISTING ELECTRICAL AND TRAFFIC SIGNAL EQUIPMENT NOT SHOWN.
10. ALL NARROW ELECTRICAL TRENCHING AND BACKFILL SHALL BE ACCORDING TO SAN DIEGO REGIONAL STANDARD DRAWING G-33.
11. ALL CONDUIT CROSSING WATER MAINS SHALL PROVIDE 1" MINIMUM VERTICAL SEPARATION.

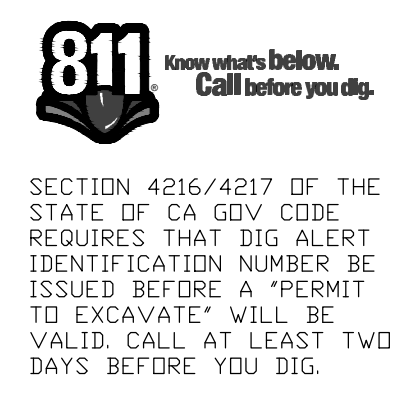
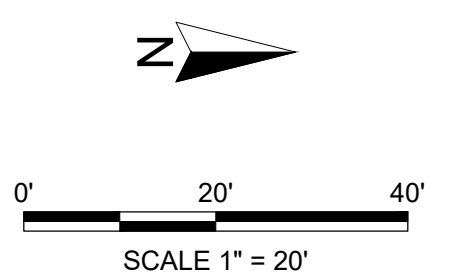
MATCHLINE STA 23+50  
SEE BELOW LEFT

**LIGHTING AND ELECTRICAL NOTES**

1. PROTECT IN PLACE PER PLAN.
2. FURNISH AND INSTALL NEW AMERON 2B226 STREET LIGHT POLE AND FOUNDATION WITH 6' MAST ARM PER CITY OF LEMON GROVE STREET LIGHT STANDARDS. LUMINAIRE SHALL BE MHT LIGHTING, MODEL MHTGRW-150E, OR APPROVED EQUAL. PROVIDE 10A FUSE IN STREET LIGHT HAND HOLE.
3. FURNISH AND INSTALL 2" SCHEDULE 40 PVC CONDUIT WITH #6 LTG AND #6 GND AT AT MINIMUM 3" FROM EDGE OF BIKEWAY.
4. PROVIDE STUB TO EXISTING SDG&E SERVICE POINT AND PAY ALL FEES. SDG&E TO PROVIDE FINAL CONNECTION.
5. PROVIDE 3" STUB FOR FUTURE LIGHTING.
6. FURNISH AND INSTALL 120/240V TYPE III-BF SERVICE EQUIPMENT ENCLOSURE PER CALTRANS RSP ES-2E AND SDG&E REQUIREMENTS. INCLUDE PLUG-IN TYPE BREAKER. METER SHALL FACE SOUTH. ADDRESS: 7660 1/2 DAVIDSON AVE  
100A CB (MAIN)  
30A CB (LIGHTING-UNMETERED)  
30A CB (IRRIGATION-METERED)  
30A CB (FUTURE LIGHTING-METERED)
7. FURNISH AND INSTALL PULL BOX WITHIN 7.5' OF SERVICE POINT AND WITHIN 10' OF SERVICE PEDESTAL. CONTRACTOR TO COORDINATE WITH SDG&E FOR JOINT MEETING IN FIELD PRIOR TO INSTALLATION.

**LEGEND**

- — — — — PROPOSED CONDUIT
- ○ ○ ○ ○ PROPOSED AMERON STREET LIGHT POLE
- ⊙ ⊙ ⊙ ⊙ ⊙ EXISTING ELECTROLIER
- □ □ □ □ PROPOSED PULL BOX
- ■ ■ ■ ■ PROPOSED SERVICE PEDESTAL

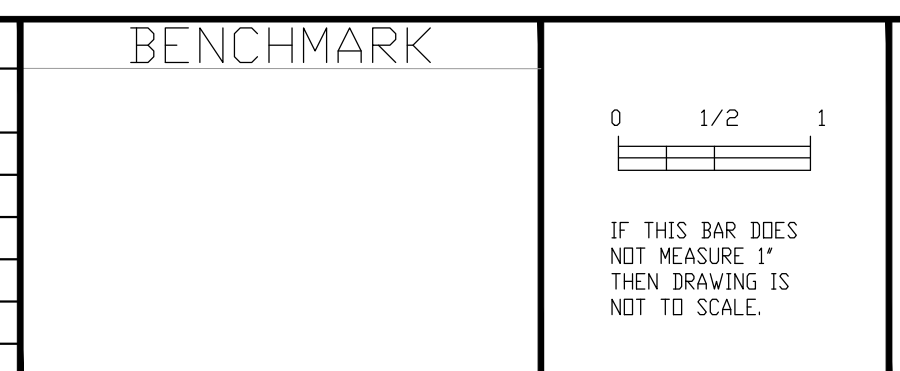


**LIGHTING PLANS FOR:**  
**CONNECT MAIN STREET**  
**PHASE 3**  
**MT VERNON ST TO DAVIDSON AVE**

CITY OF LEMON GROVE, CALIFORNIA		DEVELOPMENT SERVICES DEPARTMENT		SHEET 21 OF 37 SHEETS	
FDR CITY ENGINEER*		DATE		TM/TPM	
DESCRIPTION	BY	APPROVED	DATE	FILMED	
ORIGINAL	CRA				
AS-BUILTS					1848-6321 NAD83 COORDINATES
CONTRACTOR					206-1755 & 210-1755 LAMBERT COORDINATES
INSPECTOR					R23-02-21

**CONSTRUCTION CHANGE TABLE**

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS



**STREET DATA TABLE**

STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

FINAL CONSTRUCTION DRAWINGS



REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
	1 STANDARD GREY PEDESTRIAN CONCRETE PAVING. SEE CIVIL PLANS.	SEE CIVIL PLANS
	2 9"-12" MORTAR SET PEBBLE AVAILABLE THROUGH SOUTHWEST BOULDER AND STONE OR APPROVED EQUAL. COLOR: SUNBURST PEBBLE. MAX 4" OF PEBBLE SHOULD BE EXPOSED ABOVE ADJACENT FINISHED SURFACE. SAMPLE FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. PHONE #: (619) 331-3120.	SEE CIVIL PLANS
	3 6" WIDE STANDARD GREY CONCRETE MOW CURB	SEE CIVIL PLANS
	4 TOP OF SLOPE AT CREEK EDGE	SEE CIVIL PLANS
	5 CURB AND GUTTER, SEE CIVIL PLANS.	SEE CIVIL PLANS
	6 4" THICK STABILIZED DECOMPOSED GRANITE PAVING AVAILABLE THROUGH KRC ROCK OR APPROVED EQUAL. COLOR: DESERT GOLD. PH #: (858) 748-3953.	1/LC-1.2
	7 SIGN, SEE CIVIL PLANS.	SEE CIVIL PLANS
	8 LIGHT, SEE CIVIL PLANS.	SEE CIVIL PLANS
	9 ROAD MARKINGS. SEE CIVIL FOR MORE INFORMATION.	SEE CIVIL PLANS
	10 CROSSWALK STRIPING. SEE CIVIL FOR MORE INFORMATION.	SEE CIVIL PLANS
	11 DISPERSION AREA FILTER STRIP	SEE CIVIL PLANS
	12 EXISTING RETAINING WALL. PROTECT IN PLACE.	
	13 EXISTING CHAINLINK FENCE TO REMAIN, PROTECT IN PLACE.	
	14 EXISTING STORM DRAIN INLET, PROTECT IN PLACE	
	15 EXISTING STORM DRAIN OUTLET, PROTECT IN PLACE	
	16 EXISTING HEAD WALL FOR CREEK CULVERT. PROTECT IN PLACE.	
	17 EXISTING WATER UTILITIES, PROTECT IN PLACE.	
	18 EXISTING MANHOLE. PROTECT IN PLACE.	
	19 EXISTING SIGN, SEE CIVIL PLANS.	
	20 EXISTING EDGE OF PAVING TO REMAIN	
	21 EXISTING CURB AND GUTTER TO REMAIN. PROTECT IN PLACE.	
	22 EXISTING RAILRAD TIES, PROTECT IN PLACE.	
PA	PLANTING AREA	SEE PLANTING PLANS

ADDITIVE ALTERNATE #1

	23 CONCRETE STAIN AVAILABLE THROUGH SCOFIELD. STAIN COLOR: DARK WALNUT CHEMSTAIN CLASSIC. APPLY PER MANUFACTURERS RECOMMENDATIONS. CONTRACTOR TO APPLY STAIN TO CONCRETE MOCK UP FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.	NA
	24 INTEGRAL COLOR VEHICULAR CONCRETE PAVING WITH GRACE TOP CAST FINISH #5. DAVIS COLOR: SAN DIEGO BUFF. CONTRACTOR TO PROVIDE A 6' X 6' CONCRETE MOCK-UP SAMPLE FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.	3/LC-2.0
	25 KUMEYAAY INSPIRED GATEWAY, FAUX CORTEN STEEL PANEL AVAILABLE THROUGH GREENFIELDFENCEINC.COM. REP CONTACT: GEOFF CULP @ (760) 724 - 8131.	1/LC-2.0

ADDITIVE ALTERNATE #2

	26 ROMAN CHAIR SQUAT AVAILABLE THROUGH GAMETIME OR APPROVED EQUAL. MODEL #: 135661. COLOR: BEIGE, FINISH: TBD. PHONE #(800) 235-2440.	2/LC-2.0
	27 ASSISTED HORIZONTAL CHIN-UP STATION AVAILABLE THROUGH GAMETIME OR APPROVED EQUAL. MODEL #: 13577. COLOR: BEIGE AND FINISH: TBD. PHONE #(800) 235-2440.	2/LC-2.0

LANDSCAPE CONSTRUCTION NOTES:

- UNLESS SPECIFIED OTHERWISE, LANDSCAPE CONSTRUCTION AND LAYOUT WORK INCLUDES, BUT IS NOT LIMITED TO THE LOCATION, PLACEMENT AND DETAILING OF THE PAVING TREATMENT.
- SEE ENGINEER'S PLAN FOR PARKING AREA, RETAINING WALLS, SITE DRAINAGE AND GRADING, FINISH GRADING, SITE UTILITY LAYOUT AND CONSTRUCTION.
- DIMENSIONS INDICATED ON PLANS SHALL PREVAIL OVER PLAN SCALE. DIMENSIONS ARE TO FACES OF AND PERPENDICULAR FACE OF BUILDING WALLS UNLESS SHOWN OTHERWISE. ALL ANGLES AND CONNECTIONS ARE (90) DEGREES UNLESS NOTED OTHERWISE. WALLS CONNECTING DOORS ARE TO BE ALIGNED WITH FACE OF BUILDING UNLESS NOTED OTHERWISE. THIS RULE ONLY APPLIES TO LANDSCAPE PLAN SHEETS.
- EXPANSION JOINTS SHALL BE AS LOCATED ON THE PLANS AND WHERE CONCRETE MEETS EXISTING WALLS, PAVING, OR OTHER HARD SURFACES. EXPANSION JOINTS SHALL BE SEALED TO PREVENT MOISTURE SEEPAGE AFTER CURING. EXPANSION JOINTS ON WALKS TO BE A MAXIMUM OF 30'-0" ON CENTER.
- ALL COORDINATE POINTS AND DIMENSIONS ARE TAKEN FROM THE BACK OF CURB UNLESS OTHERWISE NOTED.
- SCORE JOINTS SHALL BE AS SHOWN ON THE PLANS OR SET ON TYPICAL ON CENTER SPACING AND ALIGN WITH BUILDING EDGES.
- CONSTRUCT EXPANSION, WEAKENED-PLANE (CONTRACTION) AND CONSTRUCTION JOINTS IN ACCORDANCE WITH SECTION 303- 5.4 OF (GREENBOOK) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- ALL CONCRETE SHALL BE A MINIMUM STRENGTH OF 2500 PSI AT 28 DAYS FOR SIDEWALKS AND 4000 PSI FOR VEHICULAR USE SIDEWALKS UNLESS OTHERWISE INDICATED. FINISH SHALL BE AS NOTED ON PLANS.
- CONCRETE PAVING SHALL HAVE FINISHED GRADES SMOOTHED TO ELIMINATE PUDDLING OR STANDING WATER. ALL FINISH SURFACES SHALL MAINTAIN A 1.5% SLOPE AWAY FROM BUILDINGS AND WALLS INTO DRAINAGE STRUCTURES AND SHALL HAVE A MAX. CROSS SLOPE OF 1.5%. CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER OF ANY CONFLICTS MAINTAINING DRAINAGE.
- LAYOUT POINTS OF ALL RADIUS SHALL BE CONNECTED BY SMOOTH EVEN LINES TO CREATE THE CURVED CONFIGURATION AS SHOWN ON THE PLANS.
- SEE IRRIGATION PLANS FOR SLEEVE LOCATIONS PRIOR TO CONSTRUCTION.
- SEE ELECTRICAL PLANS FOR CONDUIT AND LIGHT POLE LOCATIONS PRIOR TO CONSTRUCTION.
- GRAFFITI PROTECTION: ALL VERTICAL MASONRY AND CONCRETE SURFACES, AND CONCRETE AMENITIES SUCH AS BUT NOT LIMITED TO TABLES, BENCHES, ETC. SHALL BE TREATED WITH A NON-SACRIFICIAL ANTI-GRAFFITI COATING. ANTI GRAFFITI COATING SHALL BE AS MANUFACTURED BY MONOPOLE, INC. OR EQUAL. MATERIALS SHALL BE APPLIED AS SPECIFIED BELOW:
  - FIRST COAT: AQUASEAL ME12 (ITEM 5200).
  - SECOND COAT: PERMASHIELD BASE (ITEM 6100).
  - THIRD COAT: PERMASHIELD PREMIUM (ITEM 5600 FOR MATTE FINISH).
  - FOURTH COAT: PERMASHIELD PREMIUM (ITEM 5600 FOR MATTE FINISH).
- NO DEVIATIONS FROM PLANS SHALL OCCUR WITHOUT APPROVAL OF THE RESIDENT ENGINEER OR LANDSCAPE ARCHITECT
- ANY PROPOSED WORK THAT IS INCONSISTENT WITH COMMON, SAFE CONSTRUCTION PRACTICES SHALL BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER PRIOR TO COMMENCING WITH CONSTRUCTION.
- CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL FIELD CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL REVIEW PLANS AND DETAILS TO ASCERTAIN LOCATIONS NECESSARY TO PROVIDE ELECTRICAL CONNECTIONS TO POWER IRRIGATION, LIGHTING, ETC.
- CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF ALL SITE UTILITIES PRIOR TO CONSTRUCTION. NOTIFY THE RESIDENT ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
- THE CONTRACTOR SHALL HAVE THE RESIDENT ENGINEER VERIFY ALL CONSTRUCTION STAKING LOCATIONS PRIOR TO INSTALLATION OF CONCRETE.
- ALL HARDWARE SUCH AS NAILS, BOLTS, FASTENERS ETC. SHALL BE HOT DIPPED GALVANIZED UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A 6'X6' MOCK UP FOR EACH PAVING MATERIAL SPECIFIED TO INCLUDE COLOR, FINISH, STAINING, AND JOINTING FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL SECURE ALL PERMITS AND PAY ALL APPLICABLE FEES TO CONSTRUCT THE PLANS HEREIN.
- THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION STAKING AND RE-STAKING REQUIRED TO COMPLETE THE PROJECT TO THE SATISFACTION OF THE RESIDENT ENGINEER AND LANDSCAPE ARCHITECT. THE LANDSCAPE ARCHITECT WILL PROVIDE CAD FILES FOR DEVELOPMENT OF HORIZONTAL CONTROL PLAN.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES AS NECESSARY.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR LANDSCAPE ARCHITECT REVIEW AND APPROVAL FOR DETAILS AS NOTED ON PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY CLEANUP OF THE SITE AND PROVIDING ADEQUATE SAFETY MEASURES DURING CONSTRUCTION ON A 24 HOUR BASIS.
- ANY CREDITS AND/OR DEBTS SHALL BE REPORTED TO LANDSCAPE ARCHITECT AND RESIDENT ENGINEER AT A TIME OF OCCURRENCE FOR PROPER VERIFICATION AND/OR APPROVAL PRIOR TO COMMENCEMENT OF RESULTING ACTION.
- CONTRACTOR SHALL PROVIDE A 24 HOUR PHONE NUMBER IN CASE OF EMERGENCY.
- CONTRACTOR TO PROVIDE SAMPLES OF MATERIAL AND FINISHES (STAINS, PAVERS, SIGNAGE MATERIALS, ETC.) FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT AND RESIDENT ENGINEER.
- EXISTING TREE PROTECTION
  - EXISTING TREES NOTED ON PLAN TO REMAIN WITHIN THE AREA OF WORK WILL BE PROTECTED IN PLACE. THE FOLLOWING PROTECTION MEASURES WILL BE PROVIDED.
    - BRIGHT YELLOW OR ORANGE TEMPORARY FENCE WILL BE PLACED AROUND EXISTING TREES AT THE DRIP LINE.
    - STOCKPILING, TOPSOIL DISTURBANCE, VEHICULAR USE, AND MATERIAL STORAGE OF ANY KIND IS PROHIBITED WITHIN THE DRIPLINE.
    - A TREE WATERING SCHEDULE WILL BE MAINTAINED AND DOCUMENTED DURING CONSTRUCTION.
    - ALL DAMAGED TREES WILL BE REPLACED WITH ONE OF EQUAL OR GREATER SIZE (MINIMUM 96" BOX).

LANDSCAPE CONSTRUCTION- EQUIVALENT PRODUCTS

SEE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION, SECTION 4, 4-1.6, "TRADE NAMES OR EQUALS" AND THE FOLLOWING:  
WHENEVER ANY PARTICULAR MATERIAL, PROCESS, EQUIPMENT, ETC. IS INDICATED BY BRAND NAME OR MANUFACTURER, SUCH WORDING IS USED FOR THE PURPOSE OF FACILITATING ITS DESCRIPTION AND SHALL BE DEEMED TO BE FOLLOWED BY THE WORDS "OR AN APPROVED EQUAL." A LISTING OF MANUFACTURERS IS NOT INTENDED TO BE COMPREHENSIVE. THE CONTRACTOR MAY OFFER ANY MATERIAL, PROCESS OR EQUIPMENT CONSIDERED TO BE EQUIVALENT TO THAT INDICATED. UNLESS OTHERWISE AUTHORIZED BY THE OWNER'S REPRESENTATIVE, THE SUBSTANTIATION OF EQUIVALENTS MUST BE SUBMITTED WITHIN 35 DAYS AFTER THE AWARD OF THE CONTRACT. THE OWNER'S REPRESENTATIVE SHALL HAVE AUTHORITY TO DETERMINE WHETHER THE MATERIAL, PROCESS OR EQUIPMENT OFFERED IS EQUIVALENT TO THAT SPECIFIED. THE DECISION OF THE OWNER'S REPRESENTATIVE SHALL BE FINAL.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE INCREASED PROJECT COSTS WHICH ARE PRECIPITATED BY THE CHANGE IN ANY MATERIAL, PROCESS OR EQUIPMENT AT HIS REQUEST AFTER THE AWARD OF THE CONTRACT. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, ADDITIONAL COSTS INCURRED BY THE OWNER FOR REVIEW AND/OR REDESIGN OF THE CONTRACT DOCUMENTS TO ACCOMMODATE THE REQUESTED CHANGE. IN THE EVENT THAT THE CONTRACT DOCUMENTS MUST BE ALTERED TO ACCOMMODATE THE CONTRACTOR'S REQUESTED CHANGE IN MATERIAL, PROCESS OR EQUIPMENT, THE CONTRACTOR SHALL HAVE THE OPTION OF PROVIDING THE OWNER'S REPRESENTATIVE WITH DETAILED DRAWINGS AND SPECIFICATIONS THAT FULLY DEFINE HOW THE REQUESTED CHANGE CAN BE INCORPORATED INTO THE PROJECT OR THE CONTRACTOR MAY, AT HIS OWN EXPENSE, WORK WITH THE PROJECT CONSULTANTS LISTED IN THE CONTRACT DOCUMENTS TO MAKE THE REQUIRED CHANGES TO THE PLANS AND SPECIFICATIONS. IN EITHER CASE, THE OWNERS REPRESENTATIVE SHALL REVIEW THE PROPOSED PLANS AND SPECIFICATIONS PRIOR TO GRANTING APPROVAL.



AMERICANS WITH DISABILITIES NOTES

- ALL SLOPES SHOWN ON THESE PLANS WERE DESIGNED AT OR BELOW MAXIMUMS ALLOWED BY THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE C.B.C. IN ORDER TO ALLOW FOR CONSTRUCTION TOLERANCES, IT IS THE CONTRACTORS RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH A.D.A.A.G. AND C.B.C. AND IN THE EVENT THAT A DESIGN QUESTIONS SHOULD ARISE, OR A FIELD CONDITION PRESENTS ITSELF THAT IS DIFFERENT THAN SHOWN ON THESE PLANS, WORK SHOULD CEASE AND THE OWNERS REPRESENTATIVE BE NOTIFIED SO THAT AN ACCEPTABLE SOLUTION CAN BE DETERMINED.
- THE CONTRACTOR IS ADVISED TO CAREFULLY CHECK ALL PHASES OF WORK RELATING TO A.D.A.A.G. AND C.B.C. ACCESS FOR THIS PROJECT. SINCE THE CODE DOES NOT ALLOW FOR A CONSTRUCTION TOLERANCE, THAT EXCEEDS MAXIMUM OR MINIMUM DIMENSIONS AND SLOPES AS CALLED OUT BY 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND C.B.C. ARE SUBJECT TO REJECTION BY THE CITY AND MAY BE REQUIRED TO BE REMOVED AND REPLACED.
- SINCE THE CIVIL ENGINEER OR SURVEYOR CANNOT CONTROL THE EXACT METHODS OR MEANS USED BY THE GENERAL CONTRACTOR OR THEIR SUBCONTRACTOR DURING GRADING AND CONSTRUCTION OF THE PROJECT, THE CIVIL ENGINEER ASSUMES NO RESPONSIBILITY FOR FINAL ACCEPTANCE OF 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND C.B.C. RELATED ITEMS OF THIS PROJECT BY THE CITY, ANY OTHER AUTHORITY OR OTHER AFFECTED PARTIES.

COMPLIANCE WITH 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND C.B.C. CONSTRUCTION REQUIREMENTS WILL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THEIR SUB-CONTRACTORS.

SEE SHEET LC-1.0 FOR CONSTRUCTION LEGEND & NOTES  
SEE SHEET LC-1.1 - LC-1.4 FOR CONSTRUCTION PLANS  
SEE SHEET LC-2.0 FOR CONSTRUCTION DETAILS

110 Rosemont St, Suite G, San Diego, CA 92106  
619.739.6462  
LIC. CA 3138 (REV. 3/91) A2 34339  
SCHMIDTDESIGN.COM

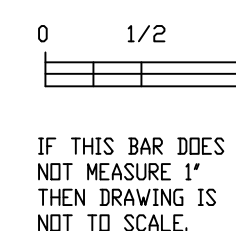
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SDG PROJECT #: 20-107  
PLT DATE: 6/20/2023  
DRAWN BY: TS, CH, BP  
CHECKED BY: JJ

CONNECT MAIN STREET PHASE 3			
LANDSCAPE CONSTRUCTION NOTES & SCHEDULE			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 22 OF 37 SHEETS		7/20/23	
FOR CITY ENGINEER*	DATE	TM/TPM	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	SDG		
		1848-6321 NAD83 COORDINATES	
		206-1755 & 210-1755 LAMBERT COORDINATES	
AS-BUILTS			
CONTRACTOR _____ DATE STARTED _____			
INSPECTOR _____ DATE COMPLETED _____			
LC-1.0			

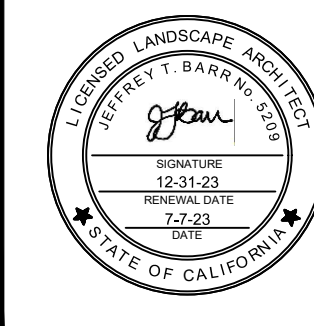
CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK	



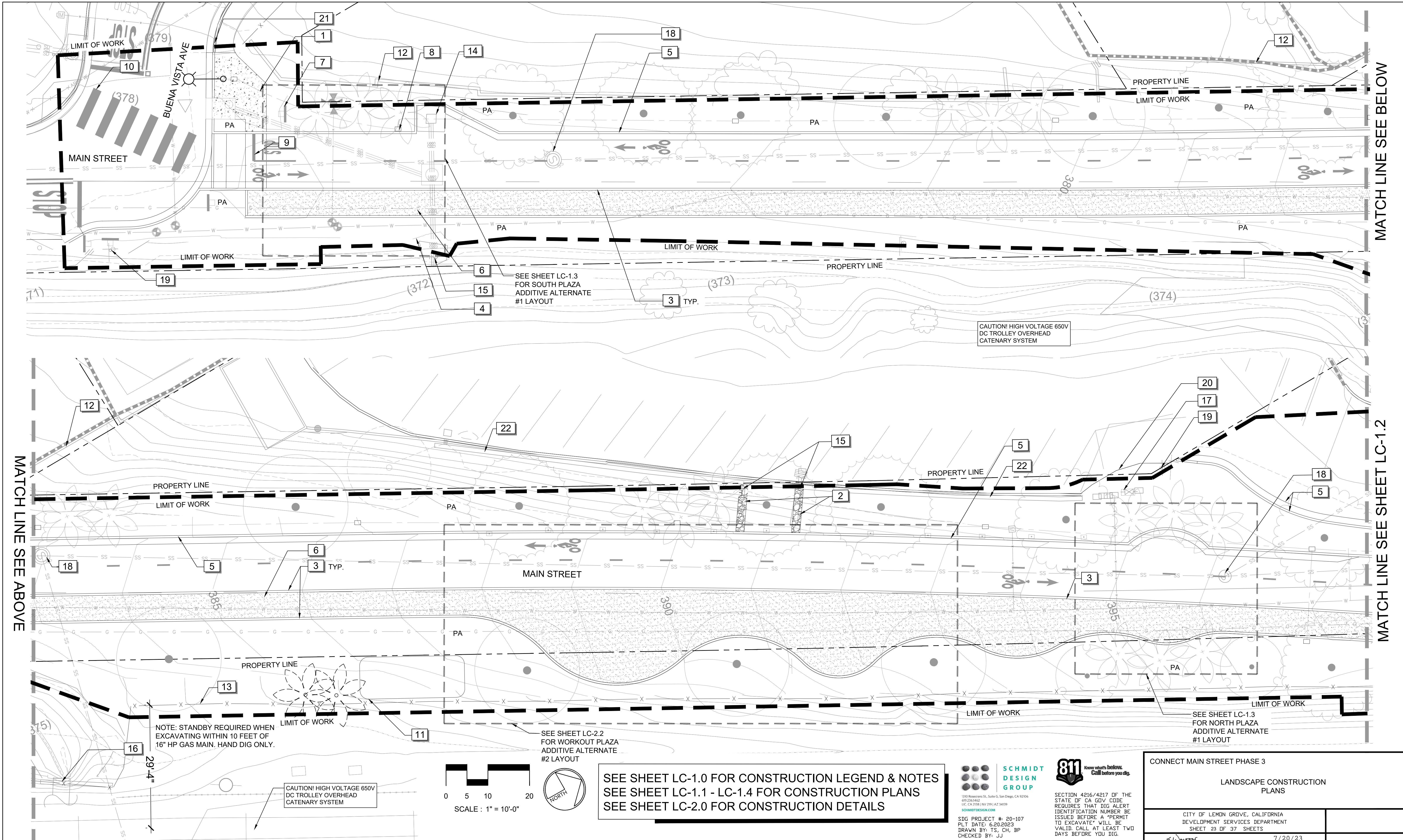
3900 Fifth Avenue, Ste 310 • San Diego, CA 92103 | 619.795.6086

CAUTION!  
LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.



STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40





SEE SHEET LC-1.0 FOR CONSTRUCTION LEGEND & NOTES  
 SEE SHEET LC-1.1 - LC-1.4 FOR CONSTRUCTION PLANS  
 SEE SHEET LC-2.0 FOR CONSTRUCTION DETAILS

**SCHMIDT DESIGN GROUP**  
 110 Rosemead St., Suite G, San Diego, CA 92106  
 619.234.1642  
 LC: CA 3138 (REV 3/91) A2 34339  
 SCHMIDTDESIGN.COM  
 SDG PROJECT #: 20-107  
 PLT DATE: 6/20/2023  
 DRAWN BY: TS, CH, BP  
 CHECKED BY: JJ

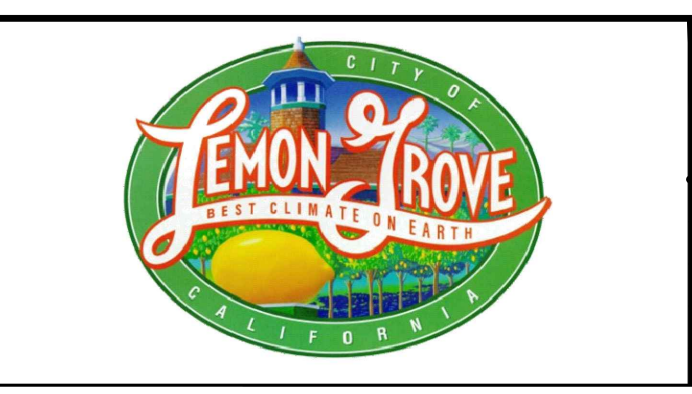
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CONNECT MAIN STREET PHASE 3			
LANDSCAPE CONSTRUCTION PLANS			
CITY OF LEMON GROVE, CALIFORNIA		DEVELOPMENT SERVICES DEPARTMENT	
SHEET 23 OF 37 SHEETS			
FOR CITY ENGINEER*	DATE	TM/TPM	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	SDG		
AS-BUILTS		1948-6321 NAD83 COORDINATES	
CONTRACTOR		206-1755 & 210-1755 LAMBERT COORDINATES	
INSPECTOR	DATE STARTED	DATE COMPLETED	
		LC-1.1	

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS



**CHEN + RYAN ASSOCIATES**  
 3900 Fifth Avenue, Ste 310 • San Diego, CA 92103 | 619.795.6086  
 CAUTION! LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.



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MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

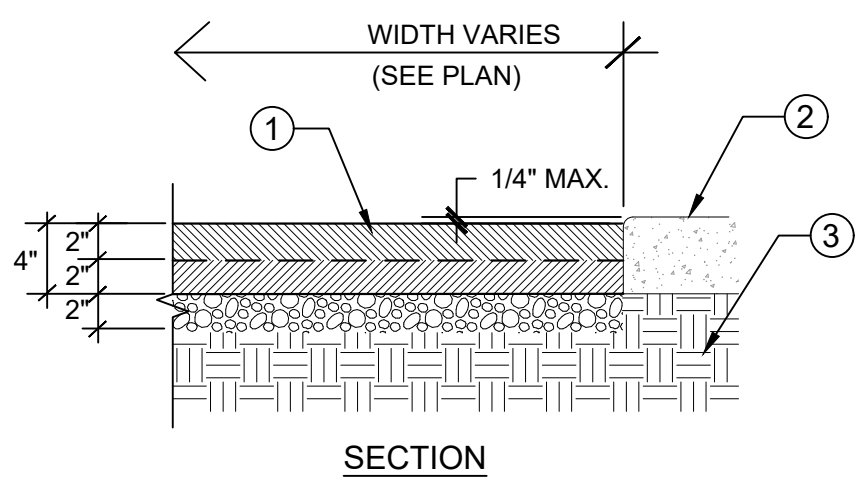
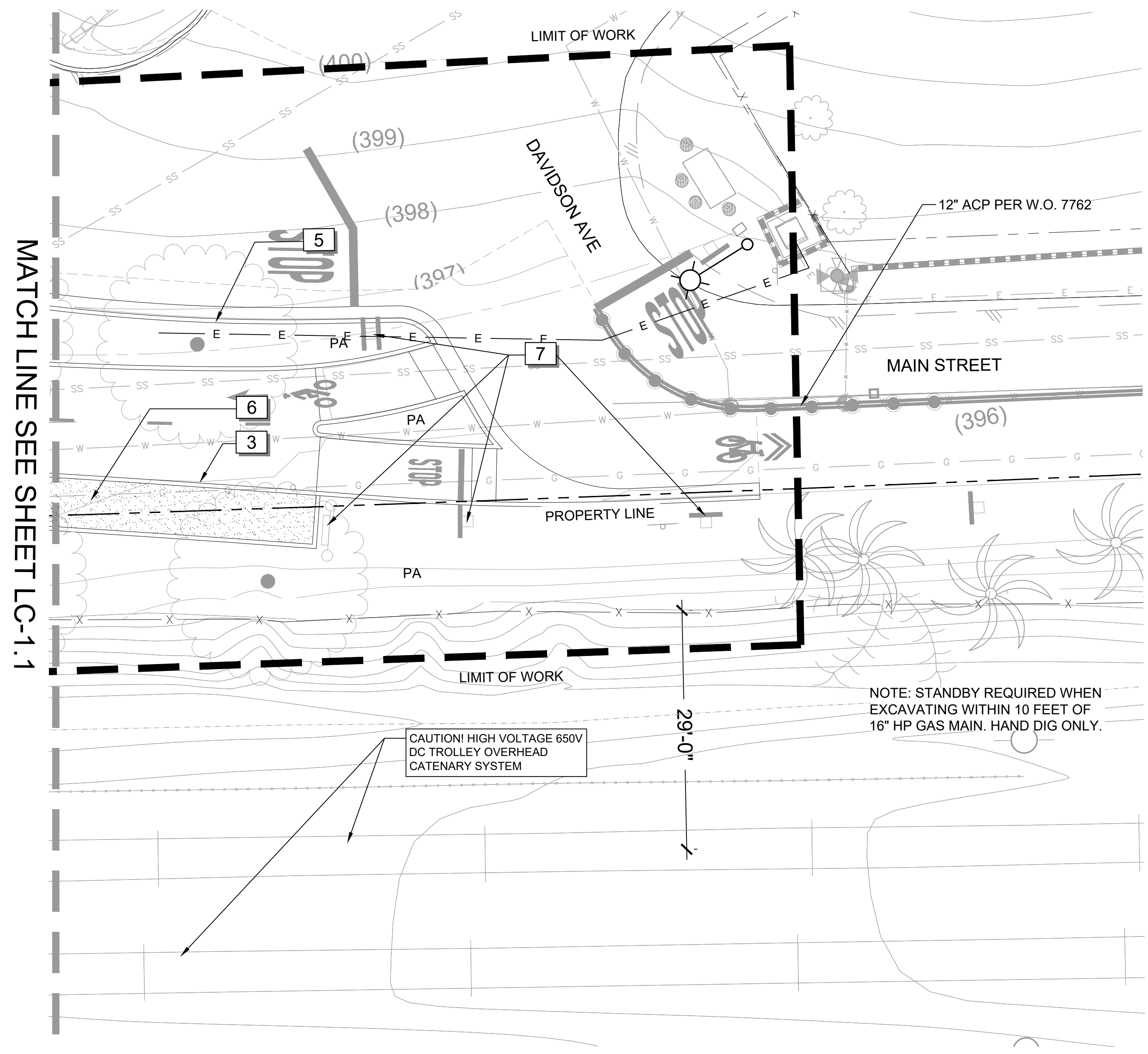
MATCH LINE SEE ABOVE

MATCH LINE SEE SHEET LC-1.2

MATCH LINE SEE BELOW

FINAL CONSTRUCTION DRAWINGS



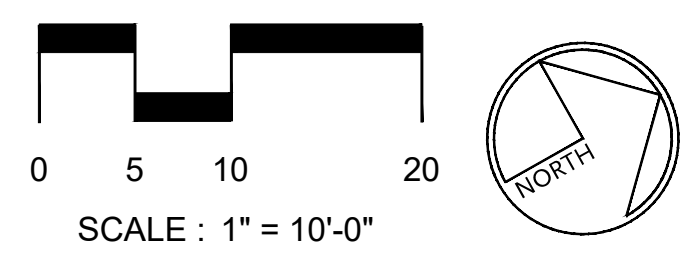


- LEGEND:
- ① 4" THICK DECOMPOSED GRANITE PAVING WITH SOIL STABILIZER. INSTALL (2) TWO, 2"-LAYERS; EACH LAYER PASS TO BE ROLLED SEPARATELY TO 90% MIN. COMPACTION. DECOMPOSED GRANITE INSTALLED OVER 2" CLASS II AGGREGATE BASE.
  - ② WHEN ADJACENT TO CONCRETE PAVING, CONCRETE CURB OR ADJACENT AGGREGATE PATH; THE TOP OF D.G. PAVING TO MEET FLUSH (1/4" MAX.) WITH TOP OF ADJACENT CURB WITH 1/2" ROUNDED CORNERS.
  - ③ COMPACTED SUBGRADE TO 95% MINIMUM.
- NOTES:
- A. SEE CONSTRUCTION PLAN FOR DECOMPOSED GRANITE PAVING OR CRUSHER FINES. TYPE AND MANUFACTURER.
  - B. SUBMIT SAMPLE OF DECOMPOSED GRANITE PAVING OR CRUSHER FINES PRIOR TO INSTALLATION FOR APPROVAL OF COLOR.
  - C. STABILIZER TO BE BLENDED INTO DECOMPOSED GRANITE PAVING PRIOR TO DELIVERY TO SITE.
- ① STABILIZED DECOMPOSED GRANITE PAVING  
N.T.S.

MATCH LINE SEE SHEET LC-1.1

SEE SHEET LC-1.0 FOR CONSTRUCTION LEGEND & NOTES  
SEE SHEET LC-1.1 - LC-1.4 FOR CONSTRUCTION PLANS  
SEE SHEET LC-2.0 FOR CONSTRUCTION DETAILS

SEE SHEET LC-1.0 FOR CONSTRUCTION LEGEND & NOTES  
SEE SHEET LC-1.1 - LC-1.4 FOR CONSTRUCTION PLANS  
SEE SHEET LC-2.0 FOR CONSTRUCTION DETAILS



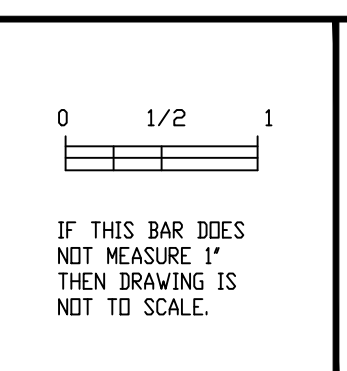
**SCHMIDT DESIGN GROUP**  
110 Rosemont St., Suite G, San Diego, CA 92106  
619.226.5622  
LIC. CA 7138 (REV. 3/91) A2 34339  
SDG PROJECT #: 20-107  
PLT. DATE: 6/20/2023  
DRAWN BY: TS, CH, BP  
CHECKED BY: JJ

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

SECTION 4216/4217 OF THE STATE OF CA GOV. CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. CALL AT LEAST TWO DAYS BEFORE YOU DIG.

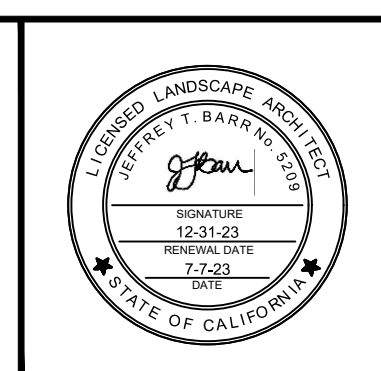
CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK	



**CHEN RYAN ASSOCIATES**  
3900 Fifth Avenue, Ste 310 • San Diego, CA 92103 | 619.795.6086

CAUTION!  
LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

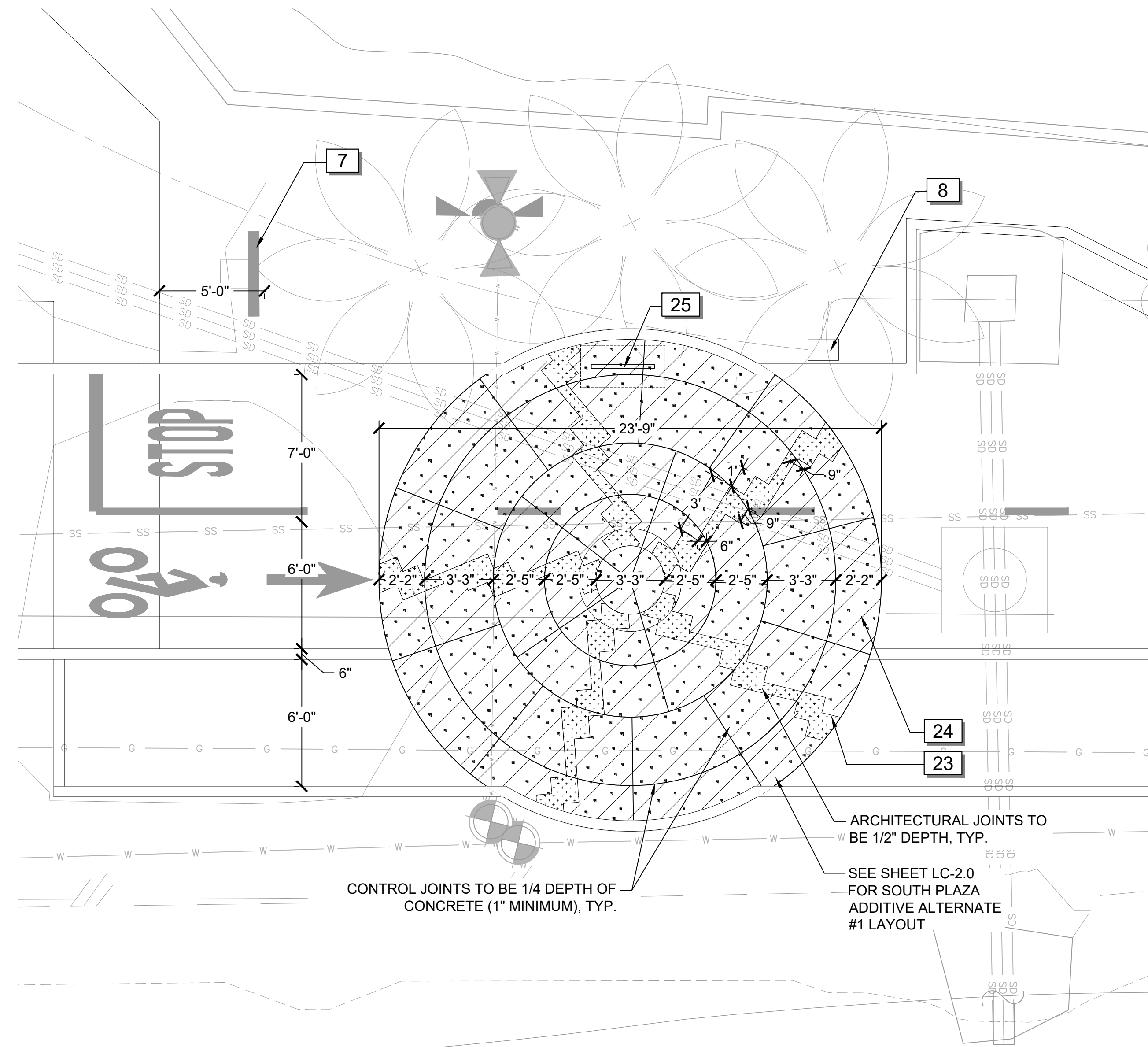


STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

CONNECT MAIN STREET PHASE 3				
LANDSCAPE CONSTRUCTION PLANS				
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 24 OF 37 SHEETS		7/20/23		TM/TPM
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SDG			
AS-BUILTS				
CONTRACTOR		DATE STARTED		1848-6321 NAD83 COORDINATES 206-1755 & 210-1755 LAMBERT COORDINATES
INSPECTOR		DATE COMPLETED		
				LC-1.2

FINAL CONSTRUCTION DRAWINGS

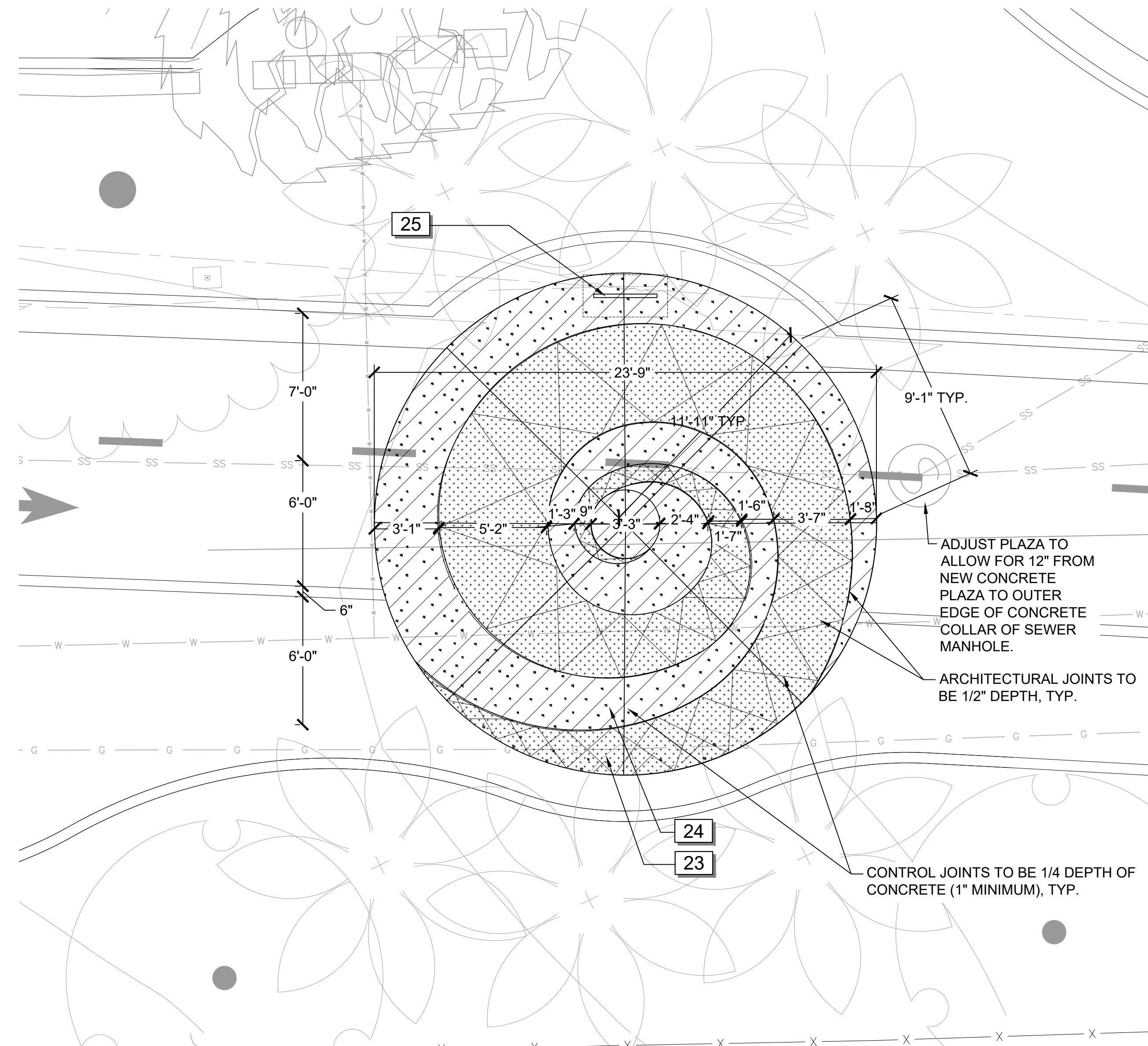




ARCHITECTURAL JOINTS TO BE 1/2" DEPTH, TYP.  
 CONTROL JOINTS TO BE 1/4 DEPTH OF CONCRETE (1" MINIMUM), TYP.  
 SEE SHEET LC-2.0 FOR SOUTH PLAZA ADDITIVE ALTERNATE #1 LAYOUT

NOTE: SEE CONSTRUCTION LEGEND FOR COLOR, STAIN, AND FINISH.

**1** SOUTH PLAZA ENLARGEMENT (ADDITIVE ALTERNATE #1)  
 1/4" = 1'-0"

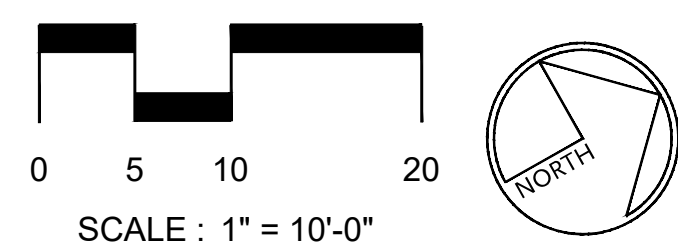
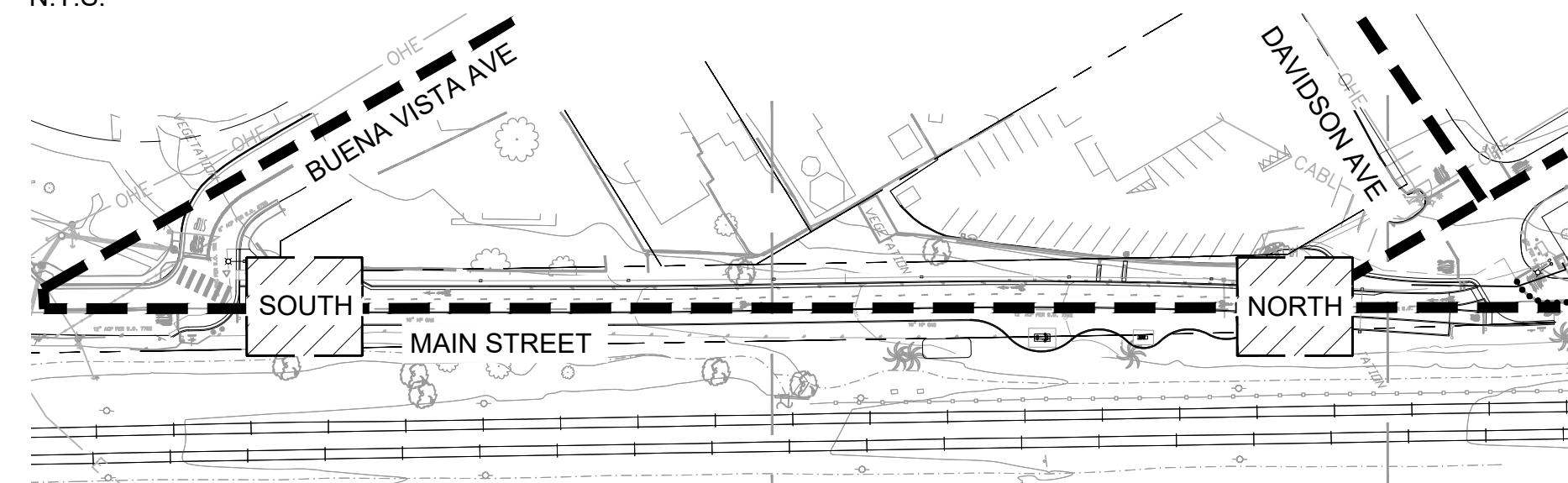


ADJUST PLAZA TO ALLOW FOR 12" FROM NEW CONCRETE PLAZA TO OUTER EDGE OF CONCRETE COLLAR OF SEWER MANHOLE.  
 ARCHITECTURAL JOINTS TO BE 1/2" DEPTH, TYP.  
 CONTROL JOINTS TO BE 1/4 DEPTH OF CONCRETE (1" MINIMUM), TYP.

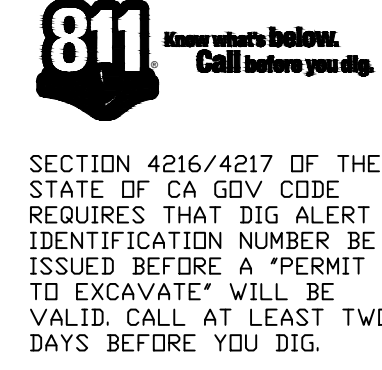
NOTE: SEE CONSTRUCTION LEGEND FOR COLOR, STAIN, AND FINISH.

**2** NORTH PLAZA ENLARGEMENT (ADDITIVE ALTERNATE #1)  
 1/4" = 1'-0"

KEY MAP  
 N.T.S.



SEE SHEET LC-1.0 FOR CONSTRUCTION LEGEND & NOTES  
 SEE SHEET LC-1.1 - LC-1.4 FOR CONSTRUCTION PLANS  
 SEE SHEET LC-2.0 FOR CONSTRUCTION DETAILS

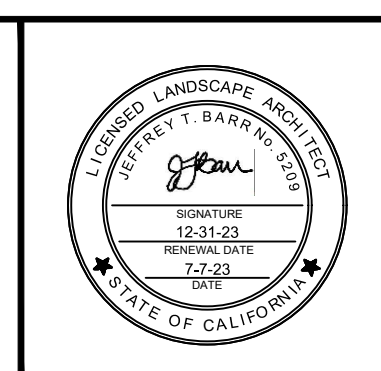


NOTE: STANDBY REQUIRED WHEN EXCAVATING WITHIN 10 FEET OF 16" HP GAS MAIN. HAND DIG ONLY.

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK	

**CHEN RYAN ASSOCIATES**  
 3900 Fifth Avenue, Ste 310 • San Diego, CA 92103 | 619.795.6086  
 CAUTION!! LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

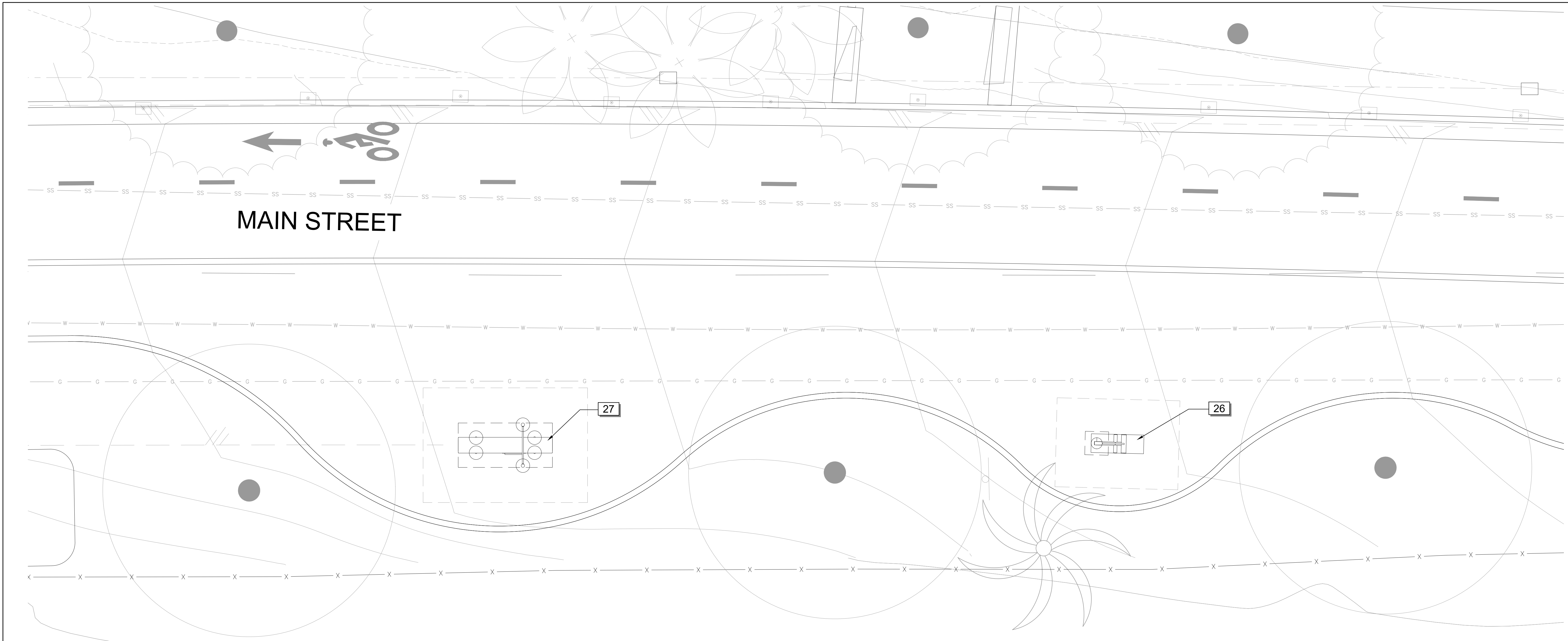


STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

CONNECT MAIN STREET PHASE 3					LANDSCAPE CONSTRUCTION DETAILS	
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 25 OF 37 SHEETS					7/20/23	
FOR CITY ENGINEER*					DATE	TM/TPM
DESCRIPTION	BY	APPROVED	DATE	FILMED		
ORIGINAL	SDG					
AS-BUILTS						
CONTRACTOR					DATE STARTED	
INSPECTOR					DATE COMPLETED	
					1848-6321	NAD83 COORDINATES
					206-1755 & 210-1755	LAMBERT COORDINATES
					LC-1.3	

FINAL CONSTRUCTION DRAWINGS





MAIN STREET

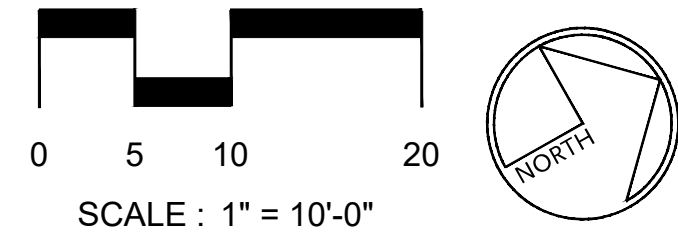
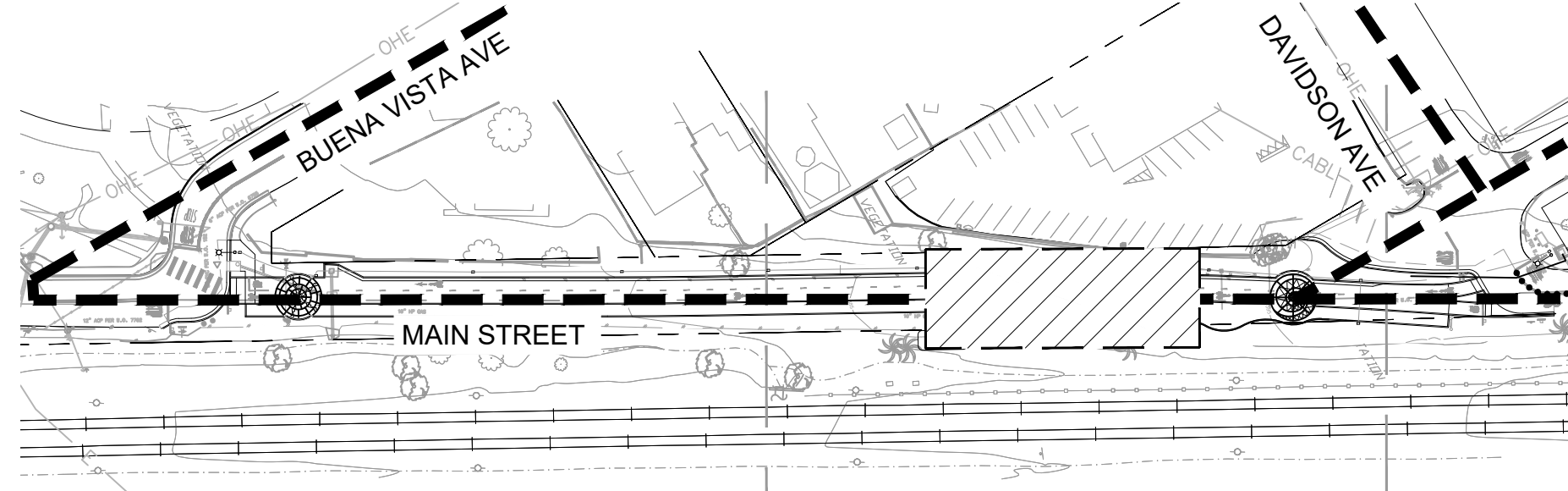
27

26

NOTE: SEE CONSTRUCTION LEGEND FOR COLOR, STAIN, AND FINISH.

1 WORKOUT PLAZA ENLARGEMENT (ADDITIVE ALTERNATE #2)  
1/4" = 1'-0"

KEY MAP  
N.T.S.



SEE SHEET LC-1.0 FOR CONSTRUCTION LEGEND & NOTES  
SEE SHEET LC-1.1 - LC-1.4 FOR CONSTRUCTION PLANS  
SEE SHEET LC-2.0 FOR CONSTRUCTION DETAILS

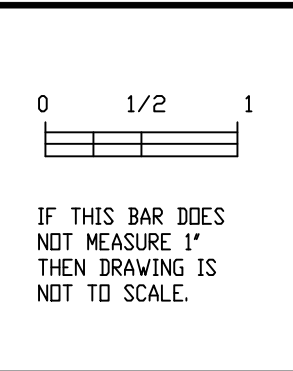


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CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK



**CHEN RYAN**  
ASSOCIATES

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CONNECT MAIN STREET PHASE 3					LANDSCAPE CONSTRUCTION DETAILS	
CITY OF LEMON GROVE, CALIFORNIA		DEVELOPMENT SERVICES DEPARTMENT		SHEET 26 OF 37 SHEETS		
DESCRIPTION	BY	APPROVED	DATE	FILMED	TM/TPM	
FOR CITY ENGINEER*			7/20/23			
ORIGINAL	SDG					
AS-BUILTS						
CONTRACTOR			DATE STARTED			
INSPECTOR			DATE COMPLETED			
						1848-6321 NAD83 COORDINATES
						206-1755 & 210-1755 LAMBERT COORDINATES
						LC-14

FINAL CONSTRUCTION DRAWINGS



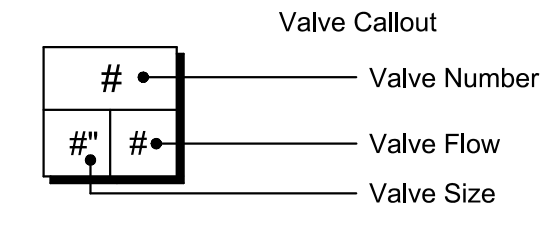




**IRRIGATION SCHEDULE**

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	RAIN BIRD R-VAN18 1806-SAM-P45 SHRUB ROTARY, 13'-18' 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 SHRUB SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	45	6/LI-2.1		HUNTER MINI-CLIK RAIN SENSOR, MOUNT AS NOTED	4/LI-2.2
	HUNTER PROS-PRS30-04-CV-R-MSBN MULTI-STREAM BUBBLER, 4" POP-UP, FACTORY INSTALLED DRAIN CHECK VALVE, RECLAIMED BODY CAP, 50=0.5GPM.	30	2/LI-2.2		1" FLOW SENSOR CALSENSE MODEL FM-1B CAP FOR FUTURE USE	4/LI-2.1
	HUNTER RZWS-36-CV 36" LONG RZWS WITH INSTALLED .50GPM BUBBLER OPTIONS, CHECK VALVE, RECLAIMED BODY CAP 1/2" SWING JOINT FOR CONNECTION TO 1/2" PIPE	30	2/LI-2.2		WATER METER 2" HGL 656'. POC 397'. CALCULATED PSI READING OF ± 10 PSI = 102 PSI	1/LI-2.0

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	RAIN BIRD XCZ-100-PRF MEDIUM FLOW DRIP CONTROL KIT, 1" DV VALVE, 1" PRESSURE REGULATING FILTER, 40PSI PRESSURE REGULATOR. 3GPM - 15GPM.	3/LI-2.0
	RAIN BIRD XCZ-150-LCDR HIGH FLOW CONTROL ZONE KIT, FOR LARGE COMMERCIAL DRIP ZONES. 1-1/2" PESB-R SCRUBBER GLOBE VALVE WITH SINGLE 1-1/2" PRESSURE REGULATING (40PSI) QUICK-CHECK BASKET FILTERS. FLOW RANGE: 15-62GPM.	3/LI-2.0
	RAIN BIRD MDCFCAP DRIPLINE FLUSH VALVE CAP IN COMPRESSION FITTING COUPLER.	5/LI-2.1
	RAIN BIRD OPERIND DRIP SYSTEM OPERATION INDICATOR, STEM RISES 6" FOR CLEAR VISIBILITY WHEN DRIP SYSTEM IS CHARGED TO A MINIMUM OF 20PSI. INCLUDES 16" OF 1/4" DISTRIBUTION TUBING WITH CONNECTION FITTING PRE-INSTALLED.	3/LI-2.2
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFS-06-18 XFS SUB-SURFACE PRESSURE COMPENSATING DRIPLINE W/COPPER SHIELD TECHNOLOGY. 0.6 GPH EMITTERS AT 18" O.C. LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV RESISTANT. SPECIFY XF INSERT FITTINGS.	4/LI-2.0



**VALVE SCHEDULE**

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC	PRECIP
1	RAIN BIRD PGA GLOBE	1"	BUBBLER	11	41.3	47.7	3.29 in/h
2	RAIN BIRD PGA GLOBE	1"	SHRUB ROTARY	28.6	66.9	81.0	0.58 in/h
3	RAIN BIRD XCZ-100-PRF	1"	AREA FOR DRIPLINE	6.72	37.8	43.6	0.43 in/h
4	RAIN BIRD XCZ-100-PRF	1"	AREA FOR DRIPLINE	8.51	40.2	47.2	0.43 in/h
5	RAIN BIRD XCZ-100-PRF	1"	AREA FOR DRIPLINE	9.11	38.6	45.6	0.43 in/h
6	RAIN BIRD PGA GLOBE	1"	BUBBLER	11	46.9	54.4	3.25 in/h
7	RAIN BIRD PGA GLOBE	1"	BUBBLER	17	42.6	55.7	3.28 in/h
8	RAIN BIRD PGA GLOBE	1-1/2"	SHRUB ROTARY	29.84	55.4	73.5	0.6 in/h
9	RAIN BIRD XCZ-100-PRF	1"	AREA FOR DRIPLINE	1.72	34.0	45.1	0.43 in/h
10	RAIN BIRD XCZ-150-LCDR	1-1/2"	AREA FOR DRIPLINE	13.88	36.4	51.2	0.43 in/h
Unknown	CAP FOR FUTURE USE		CAP (AS INDICATED FOR FUTURE USE)			3.27	Unknown
Unknown	CAP FOR FUTURE USE		CAP (AS INDICATED FOR FUTURE USE)			11.5	Unknown

**CRITICAL ANALYSIS**

Generated: 2023-06-20 18:11

P.O.C. NUMBER: 01  
Water Source Information: HGL 656'. POC 397'. Calculated PSI reading of ± 10 PSI = 102 PSI

**FLOW AVAILABLE**  
Water Meter Size: 2"  
Flow Available: 120 GPM

**PRESSURE AVAILABLE**  
Static Pressure at POC: 102 PSI  
Elevation Change: 5.00 ft  
Service Line Size: 12"  
Length of Service Line: 20 ft  
Pressure Available: 100 PSI

**DESIGN ANALYSIS**  
Maximum Station Flow: 29.84 GPM  
Flow Available at POC: 120 GPM  
Residual Flow Available: 90.16 GPM

**Critical Station:** 2  
Design Pressure: 45 PSI  
Friction Loss: 7.84 PSI  
Fittings Loss: 0.78 PSI  
Elevation Loss: 6.93 PSI  
Loss through Valve: 6.34 PSI  
Pressure Req. at Critical Station: 66.9 PSI  
Loss for Fittings: 0.74 PSI  
Loss for Main Line: 7.41 PSI  
Loss for POC to Valve Elevation: -6.93 PSI  
Loss for Backflow: 11.6 PSI  
Loss for Master Valve: 0.53 PSI  
Loss for Water Meter: 0.74 PSI  
Critical Station Pressure at POC: 81.0 PSI  
Pressure Available: 100 PSI  
Residual Pressure Available: 19.0 PSI

**IRRIGATION NOTES:**

- THE IRRIGATION SYSTEM DESIGN IS BASED ON AN AVAILABLE WATER PRESSURE OF ± 100 PSI AT CITY SERVICE. CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION AND REPORT ANY DIFFERENCES TO THE CITY OF LEMON GROVE.
- THE IRRIGATION SYSTEM IS SHOWN DIAGRAMMATIC ALLY FOR CLARITY. LOCATE ALL PIPING, VALVES, BACKFLOW PREVENTERS, AND OTHER IRRIGATION EQUIPMENT WITHIN PLANTING AREAS UNLESS NOTED OR DIRECTED OTHERWISE. LOCATE ALL VALVES AND VALVE BOXES SIX INCHES FROM EDGE OF PAVING OR CURB.
- EXISTING UTILITIES AND FIELD CONDITIONS: PRIOR TO EXCAVATION, LOCATE ALL CABLES, CONDUITS, AND UNDERGROUND UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR AN UNDERGROUND UTILITY SERVICE TO LOCATE AND MARK UTILITIES. CONTRACTOR WILL TAKE PROPER PRECAUTIONS NOT TO DAMAGE OR DISTURB SUCH UNDERGROUND IMPROVEMENTS. NOTIFY THE OWNER IMMEDIATELY IF A CONFLICT EXISTS BETWEEN SUCH OBSTACLES AND THE PROPOSED WORK. PROCEED IN SAME MANNER IF ROCK LAYERS OR ANY OTHER CONDITIONS ENCOUNTERED UNDERGROUND MAKE CHANGES ADVISABLE.
- ALL PIPING AND WIRING UNDER ROADWAYS AND PAVING AND THROUGH WALLS SHALL BE SLEEVED.
- USE TWO WRAPS OF THREE-QUARTER INCH (3/4") TEFLON TAPE FOR ALL THREADED VALVE CONNECTIONS.
- AUTOMATIC IRRIGATION CONTROLLER IS TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTION OF FIELD WIRES TO APPROPRIATE TERMINAL STRIPS.
- ADJUST ALL SPRINKLERS TO AVOID OVERSPRAY ONTO WALLS, WALKS, STREETS, UTILITY BOXES, BUILDINGS AND OTHER IMPROVEMENTS.
- ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO THE FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE DESIGNED ON THE PLANS.
- CONTRACTOR SHALL INSTALL IN-LINE ANTI-DRAIN VALVES AS WARRANTED BY SITE CONDITIONS TO ALLEVIATE LOW HEAD DRAINAGE.
- THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS NECESSARY.
- THE CONTRACTOR SHALL KEEP AN UP-TO-DATE COMPLETE "AS-BUILT" RECORD SET OF PRINTS WHICH SHALL BE UPDATED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DESIGN.
- INSTALL IRRIGATION HEADS IN TURF AREAS 1" FROM WALKS AND HARDSCAPE AREAS.
- ALL CONTROL VALVES SHALL BE MANIFOLDED AND GROUPED IN ONE AREA SHOWN ON PLAN. VALVES SHALL BE SET AT RIGHT ANGLES TO EDGES. INSTALL VALVES BOXES 6" FROM EDGES OF HARDSCAPE AREAS.
- CONTRACTOR SHALL REMOVE AND DISCARD DAILY, ALL PIPING DISTURBED DURING TRENCHING OPERATION.
- CONTRACTOR SHALL REVIEW IRRIGATION SPECIFICATIONS PRIOR TO BEGINNING WORK. REFER TO TECHNICAL SPECIFICATIONS AND CONSTRUCTION DETAILS FOR INSTALLATION PROCEDURES.
- CONTRACTOR SHALL HEAT BRAND ALL PLASTIC VALVES BOXES WITH THE FOLLOWING LABELS. ALL LETTERS SHALL BE ONE INCH (1") HIGH. LETTERING ON VALVE BOX LIDS SHALL BE PLACED ON THE SAME LOCATION ON EACH VALVE BOX LID, AND ALL LABELING SHALL FACE THE SAME DIRECTION.  
QUICK COUPLER VALVE BOXES SHALL BE LABELED "QVC"  
BALL VAVE BOXES "BU"
- ALL BOLTS FOR LOCKING VALVE BOX LIDS SHALL BE STAINLESS STEEL.
- CONTRACTOR SHALL CONTACT CITY OF LEMON GROVE INSPECTOR PRIOR TO ANY TRENCHING OPERATIONS.
- PROVIDE CONCRETE THRUST BLOCKS ON ALL MAINLINES 2-1/2" AND GREATER, PER DETAIL AND SPECIFICATIONS. THE CITY OF LEMON GROVE INSPECTION DEPARTMENT SHALL BE NOTIFIED 48 HOURS (2 WORKING DAYS) PRIOR TO THE START OF CONSTRUCTION. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.
- CALSENSE CONTROLLERS, FLOW SENSOR, MASTER VALVE, PHONE MODEM ALL SHALL BE TESTED AND WRITTEN CERTIFICATION PROVIDED BY CALSENSE TO CITY OF LEMON GROVE PRIOR TO TURN OVER OF PROJECT.
- IRRIGATION PIPING AND IRRIGATION DEVICES WITHIN TWENTY-FOUR INCHES OF A VEHICLE OR PEDESTRIAN USE AREA AND THAT DELIVER WATER, SUCH AS SPRINKLER HEADS, SHALL BE INSTALLED BELOW GRADE. THE DIRECTOR MAY ALLOW ON-GRADE PIPING WHERE LANDFORM CONSTRAINTS MAKE BELOW GRADE PIPING INFEASIBLE.

IRRIGATION DESIGN IS BASED UPON A MAXIMUM OPERATING PRESSURE OF 85 PSI WITH A MAXIMUM DEMAND OF 40 GPM AT THE POINT OF CONNECTION.  
WATER COMPANY: HELIX WATER DISTRICT  
PHONE NUMBER: (619) 466-0585  
TOTAL IRRIGATED LANDSCAPED AREA: 12,813 SQ FT

**State of CA Model Water Efficient Landscape Ordinance (MWELO) Update Impact Comparison**

Project Name: CONNECT MAIN STREET PHASE 3

2015 Executive Order EO B-29-15 MWELO CALCS - MAWA & ETWU PROJECT WATER USE ANALYSIS

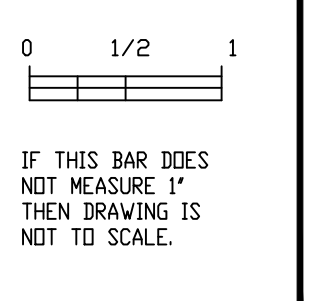
Description	MAWA		ETWU		Hydrozones			Total Usage
	ETAF	High Water Use	Moderate Water Use	Low Water Use	Spray	Low Water Use Drip	Total Usage	
Total Landscape Area (Square Feet)	12,813.00	Hydrozone Area 5.7' (H)	0.00	0.00	3,972.00	8,841.00	12,813.00 SqFt	
Special Landscape Area (SLA)	0.00	SLA Hydro Area	0.00	0.00	0.00	0.00	0.00 SqFt	
Irrigation Efficiency (IE)	NA	Irrigation Efficiency (IE)	0.75	0.81	0.75	0.81		
Reference Evapotranspiration (Eto)	47.00	Ref ET (Eto)	47.00	47.00	47.00	47.00		
Plant Factor (PF) H=0.7, M=0.5, L=4.3, VL=2.1	NA	Plant Factor (PF)	0.8	0.5	0.3	0.3		
ET Adjustment Factor (ETAF) for non-residential projects	0.45	ETAF (PF/IE)	1.07	0.66	0.40	0.40		
Conversion Factor (inches to Gallons)	0.62	Conversion Factor (ETAF x Area)	0.00	0.00	1,588.80	0.00		
Eto x .62 x (ETAF x Land Area) + (1-ETAF) x SLA	188,017	Eto x .62 x (ETAF x Area)	0	0	46,208	103,051	5,125.20 SqFt	
	188,017	Eto x 0.62 x (SLA Area)	0.00	0.00	0.00	0.00	149,348 Gal/Yr	
Total Gallons per year	188,017	149,348					149,348.33 Gal/Yr	
		Project Average ETAF	0.40					

Anticipated evapotranspiration rates for the site are based on historical averages. IE = All overhead spray = 0.75; Subsurface irrigation such as Bubblers and Drip = 0.81  
This data is collected from C.I.M.I.S. (California Irrigation Management Information System) Data from the C.I.M.I.S. Station # 150 was used.

**CONSTRUCTION CHANGE TABLE**

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

**BENCHMARK**



**CHEN RYAN ASSOCIATES**  
3900 Fifth Avenue, Ste 310 • San Diego, CA 92103 | 619.795.6086

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**STREET DATA TABLE**

STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

CONNECT MAIN STREET PHASE 3

LANDSCAPE IRRIGATION NOTES & SCHEDULE

DEVELOPMENT SERVICES DEPARTMENT  
SHEET 28 OF 37 SHEETS

DATE: 7/20/23

DATE STARTED: \_\_\_\_\_ DATE COMPLETED: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_ INSPECTOR: \_\_\_\_\_

1848-6321 NAD83 COORDINATES  
206-1755 & 210-1755 LAMBERT COORDINATES

LI-1.0

SEE SHEET LI-1.0 FOR IRRIGATION LEGEND & NOTES  
SEE SHEET LI-1.1 - LI-1.2 FOR IRRIGATION PLANS  
SEE SHEET LI-2.0 - LI-2.2 FOR IRRIGATION DETAILS

Missing or invalid reference File: MAWA-ETWU-MWELO-2023-06-12-Prints.pdf

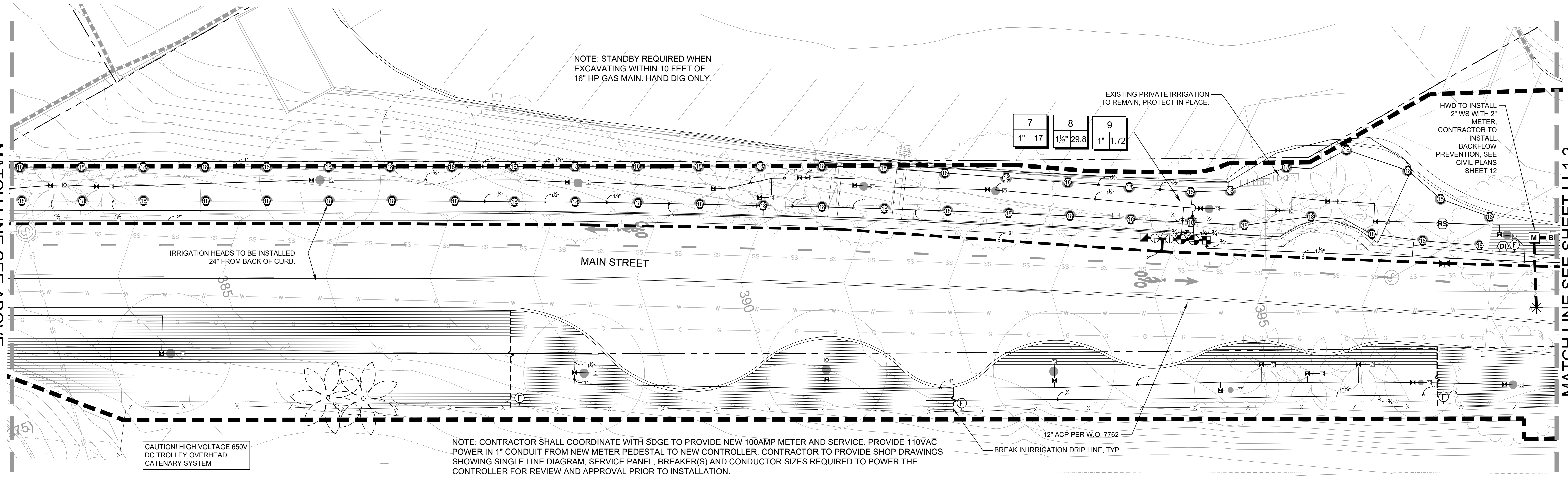
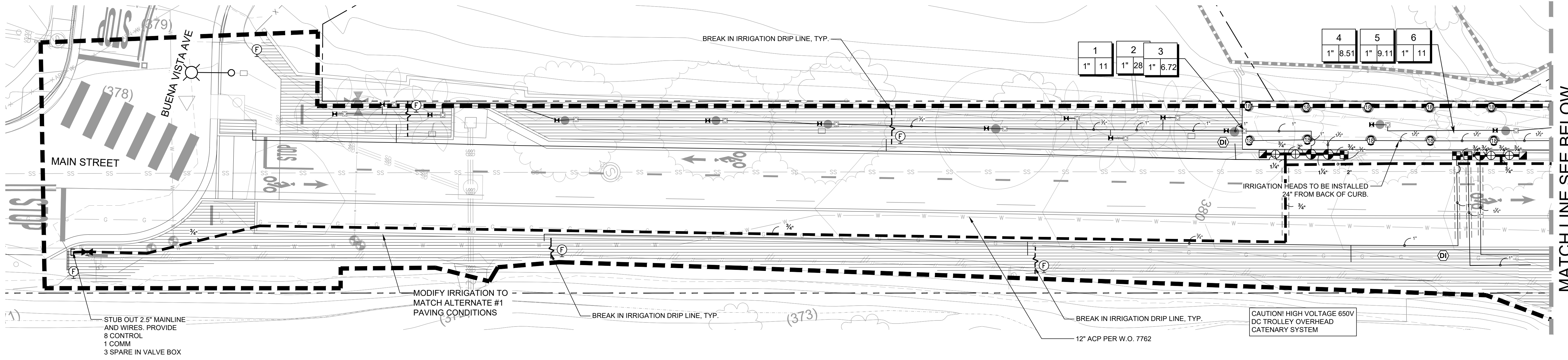
**SCHMIDT DESIGN GROUP**

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

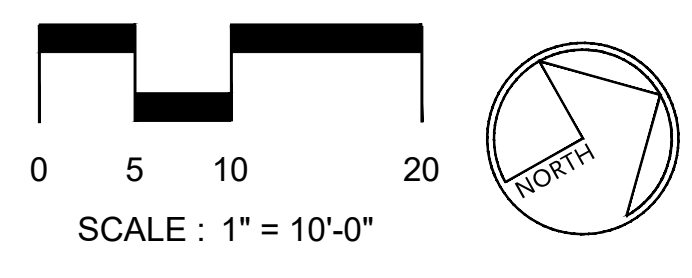
SECTION 4216/4217 OF THE STATE OF CA GOV CODE REQUIRES THAT DIG ALERT BE DONE AT LEAST 14 DAYS BEFORE YOU DIG. CALL AT LEAST TWO DAYS BEFORE YOU DIG.

FINAL CONSTRUCTION DRAWINGS

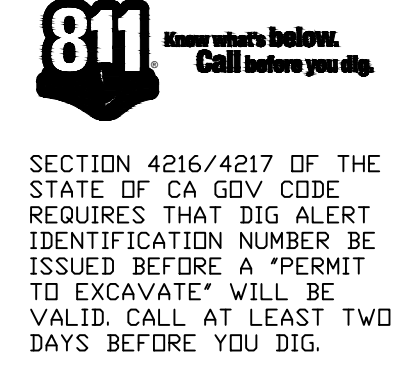




**SPECIAL NOTE: IRRIGATION SYSTEM IS DRAWN DIAGRAMMATICALLY FOR CLARITY. INSTALL MAINLINE, VALVES, HEADS AND LATERALS WITHIN PLANTING AREAS. VERIFY LOCATIONS WITH OWNER PRIOR TO INSTALLATION. ALL PRESSURIZED MAINLINE TO BE LOCATED A MIN. OF 10'-0" FROM WATER MAIN.**



**SEE SHEET LI-1.0 FOR IRRIGATION LEGEND & NOTES  
SEE SHEET LI-1.1 - LI-1.2 FOR IRRIGATION PLANS  
SEE SHEET LI-2.0 - LI-2.2 FOR IRRIGATION DETAILS**



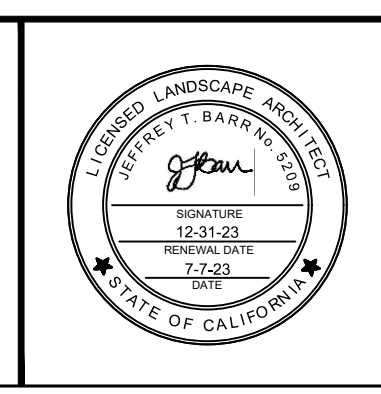
CONNECT MAIN STREET PHASE 3			
LANDSCAPE IRRIGATION PLAN			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 29 OF 37 SHEETS		DATE: 7/20/23	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	SDG		
AS-BUILTS			
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
1848-6321 NADB3 COORDINATES		206-1755 & 210-1755 LAMBERT COORDINATES	
			LI-1.1

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK	

**CHEN RYAN ASSOCIATES**  
3900 Fifth Avenue, Ste 310 • San Diego, CA 92103 | 619.795.6086

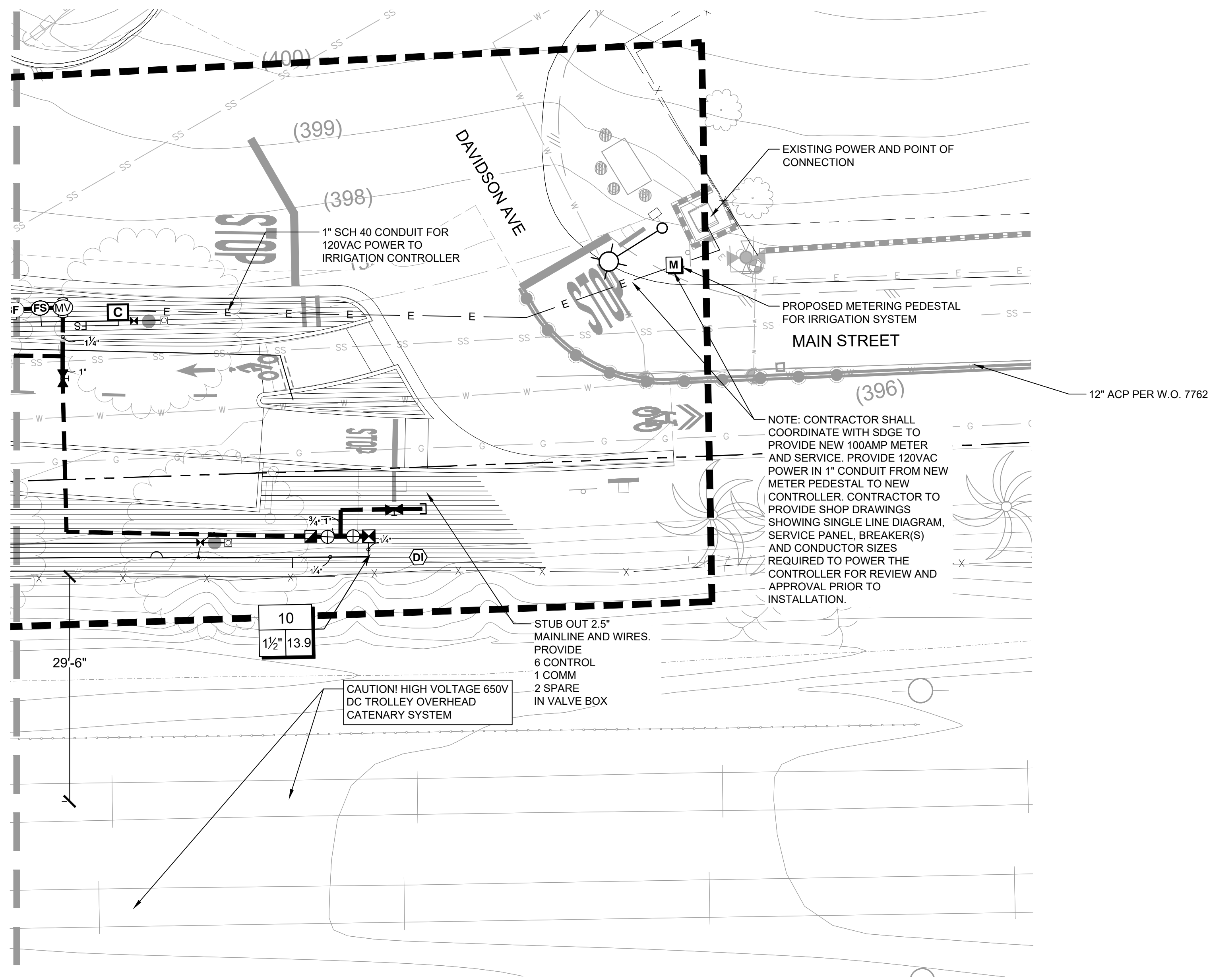
CAUTION! LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.



STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40



MATCH LINE SEE SHEET LI-1.1



NOTE: CONTRACTOR SHALL COORDINATE WITH SDGE TO PROVIDE NEW 100AMP METER AND SERVICE. PROVIDE 120VAC POWER IN 1" CONDUIT FROM NEW METER PEDESTAL TO NEW CONTROLLER. CONTRACTOR TO PROVIDE SHOP DRAWINGS SHOWING SINGLE LINE DIAGRAM, SERVICE PANEL, BREAKER(S) AND CONDUCTOR SIZES REQUIRED TO POWER THE CONTROLLER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

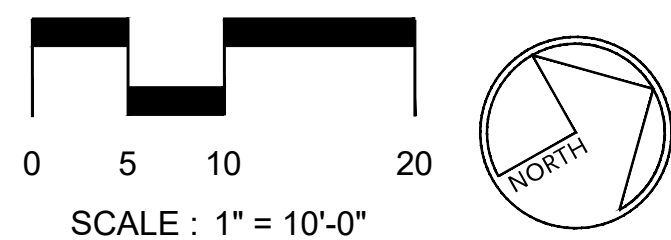
STUB OUT 2.5" MAINLINE AND WIRES. PROVIDE 6 CONTROL 1 COMM 2 SPARE IN VALVE BOX

CAUTION! HIGH VOLTAGE 650V DC TROLLEY OVERHEAD CATENARY SYSTEM

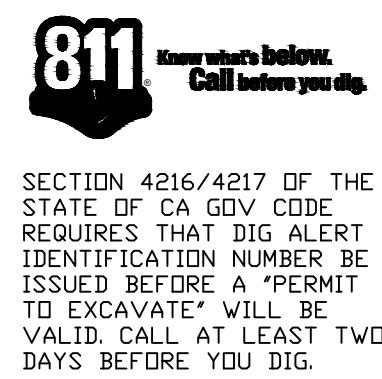
NOTE: STANDBY REQUIRED WHEN EXCAVATING WITHIN 10 FEET OF 16" HP GAS MAIN. HAND DIG ONLY.

NOTE: CONTRACTOR SHALL COORDINATE WITH SDGE TO PROVIDE NEW 100AMP METER AND SERVICE. PROVIDE 110VAC POWER IN 1" CONDUIT FROM NEW METER PEDESTAL TO NEW CONTROLLER. CONTRACTOR TO PROVIDE SHOP DRAWINGS SHOWING SINGLE LINE DIAGRAM, SERVICE PANEL, BREAKER(S) AND CONDUCTOR SIZES REQUIRED TO POWER THE CONTROLLER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

**SPECIAL NOTE: IRRIGATION SYSTEM IS DRAWN DIAGRAMMATICALLY FOR CLARITY. INSTALL MAINLINE, VALVES, HEADS AND LATERALS WITHIN PLANTING AREAS. VERIFY LOCATIONS WITH OWNER PRIOR TO INSTALLATION. ALL PRESSURIZED MAINLINE TO BE LOCATED A MIN. OF 10'-0" FROM WATER MAIN.**

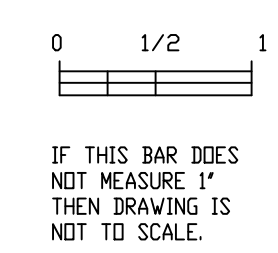


SEE SHEET LI-1.0 FOR IRRIGATION LEGEND & NOTES  
SEE SHEET LI-1.1 - LI-1.2 FOR IRRIGATION PLANS  
SEE SHEET LI-2.0 - LI-2.2 FOR IRRIGATION DETAILS



CONNECT MAIN STREET PHASE 3			
LANDSCAPE IRRIGATION PLAN			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 30 OF 37 SHEETS		DATE: 7/20/23	
FOR CITY ENGINEER*	DATE	TM/TPM	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	SDG		
AS-BUILTS		1848-6321 NAD83 COORDINATES	
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		206-1755 & 210-1755 LAMBERT COORDINATES	
		LI-1.2	

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS



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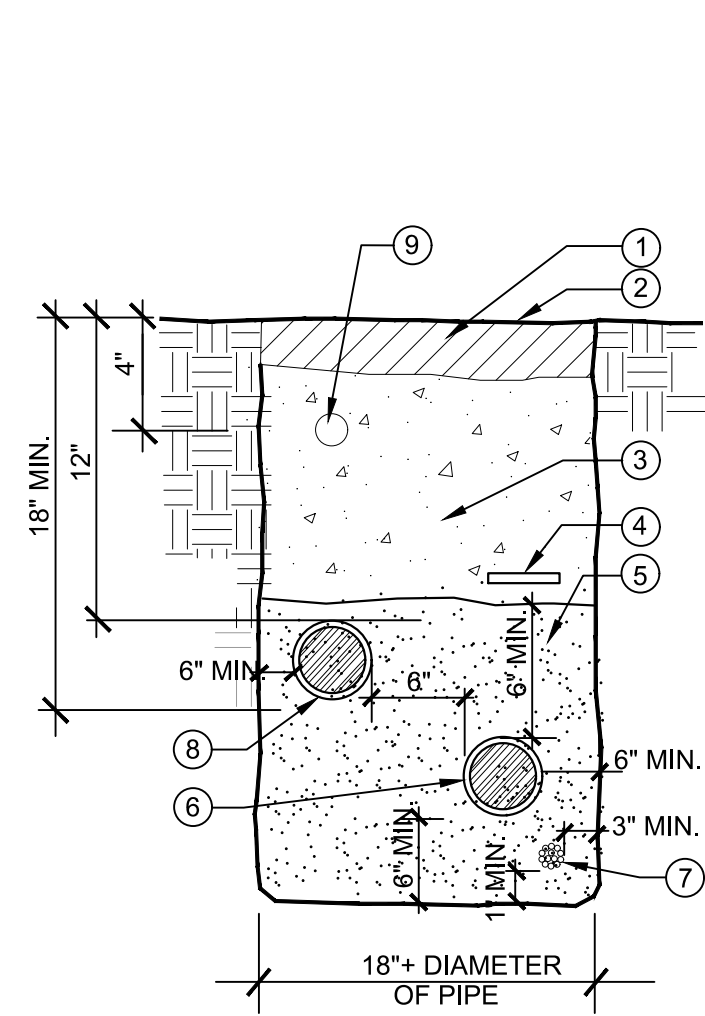
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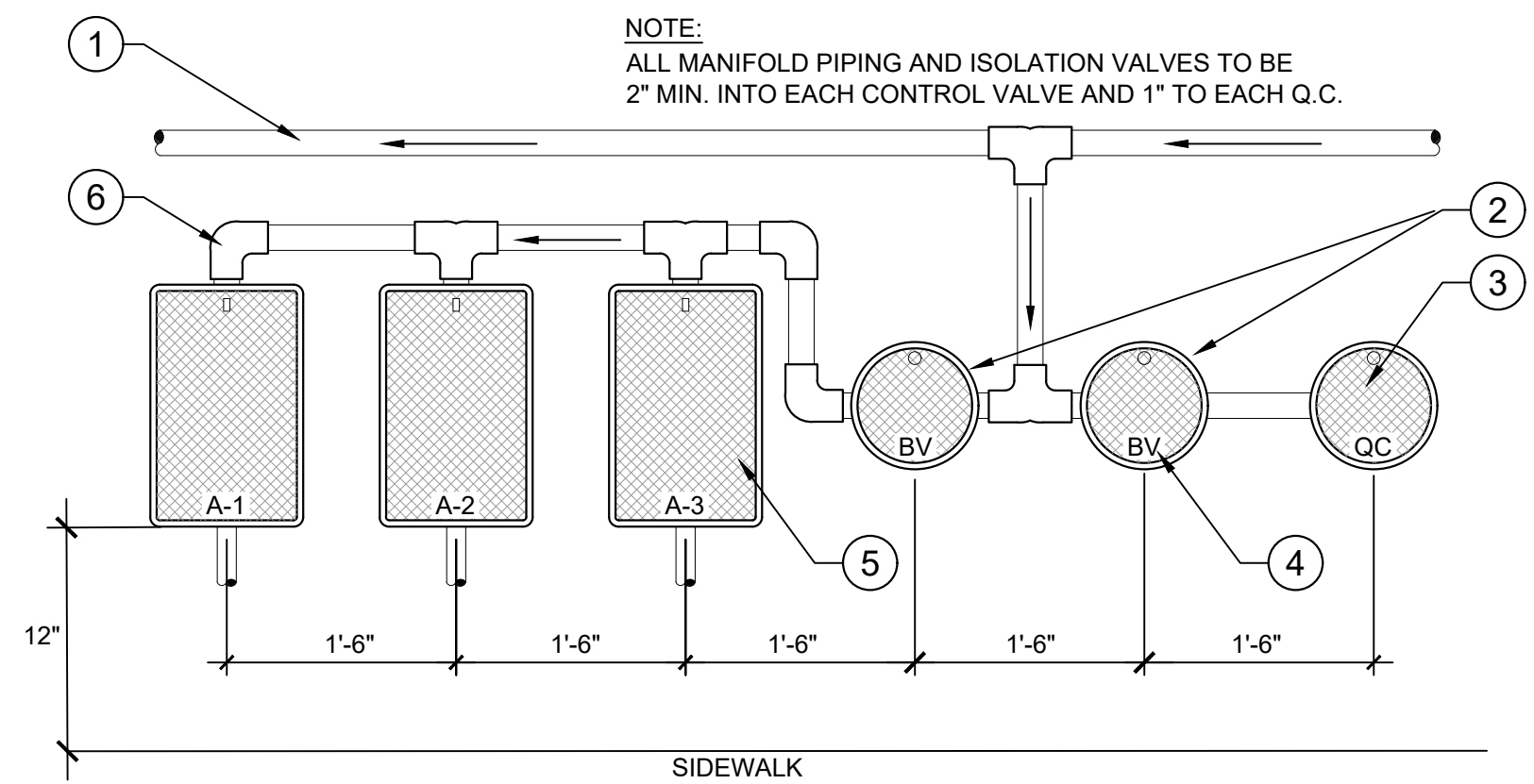
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

FINAL CONSTRUCTION DRAWINGS

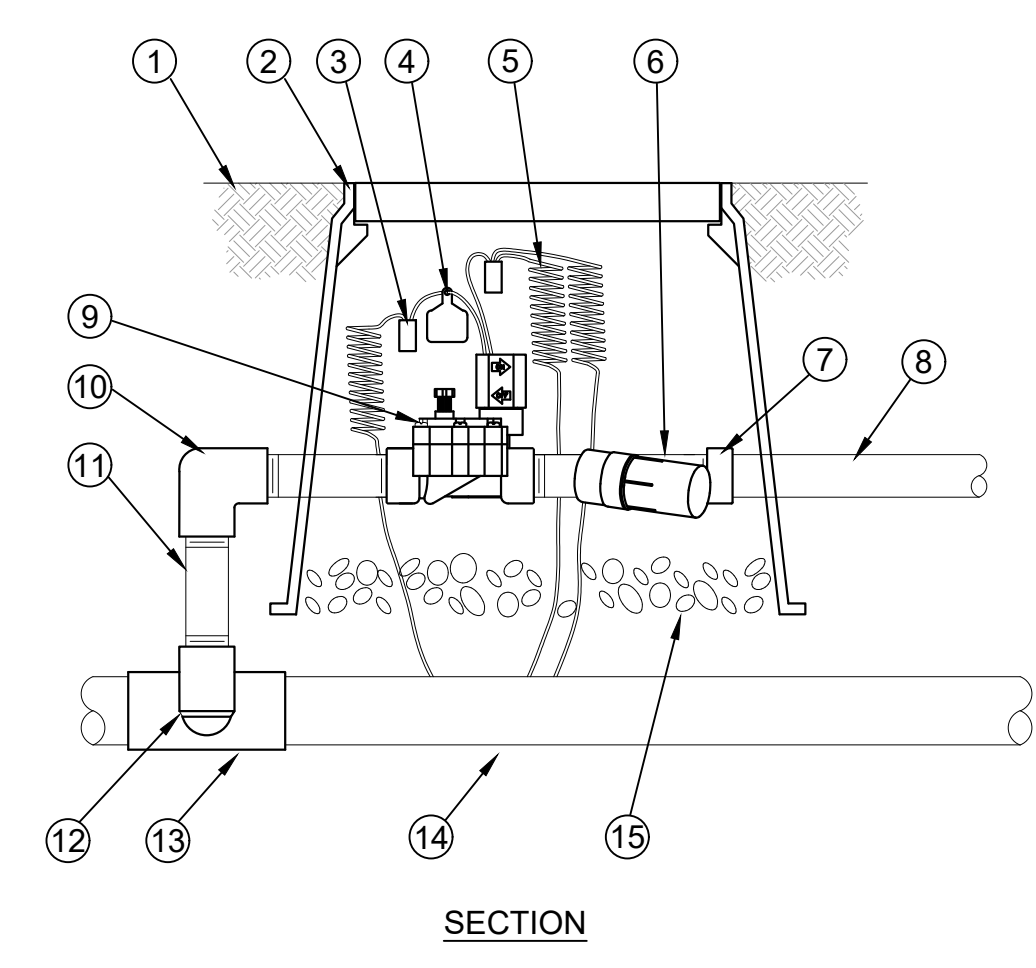




- LEGEND:**
- ① IMPORTED TOPSOIL OR AMENDED NATIVE SOIL
  - ② FINISHED GRADE
  - ③ NATIVE SOIL FREE OF ROCKS AND DEBRIS 3" OR GREATER
  - ④ TRENCH MARKER
  - ⑤ SAND BEDDING MATERIAL
  - ⑥ IRRIGATION MAINLINE
  - ⑦ DIRECT BURIAL CONTROL WIRES
  - ⑧ IRRIGATION LATERAL LINE
  - ⑨ IN LINE DRIP TUBING
- NOTES:**
1. TRENCH MARKER SHALL BE A 3" WIDE CONTINUOUS METALLIC PLASTIC STRIP ABOVE THE MAINLINE AND DIRECT BURIAL CONTROL WIRES.
  2. ALL PIPE AND CONTROL WIRE UNDER PAVEMENT SHALL BE INSTALLED IN A P.V.C. SLEEVE PER THE IRRIGATION SPECIFICATIONS.
  3. BACKFILL MATERIAL SHALL BE COMPACTED TO A RELATIVE COMPACTION OF 90% MIN.



- NOTE:** ALL MANIFOLD PIPING AND ISOLATION VALVES TO BE 2" MIN. INTO EACH CONTROL VALVE AND 1" TO EACH Q.C.
- LEGEND:**
- ① PRESSURE SUPPLY LINE (SEE PLAN FOR SIZE)
  - ② BALL VALVES (SEE IRRIGATION LEGEND)
  - ③ QUICK COUPLER (SEE IRRIGATION LEGEND)
  - ④ HEAT BRAND ALL VALVES
  - ⑤ ELECTRIC CONTROL VALVE
  - ⑥ MANIFOLD PIPE-SAME SIZE AS PRESSURE SUPPLY LINE LOCATED UNDERNEATH VALVE BOXES. ALL MAINLINE FITTINGS TO BE SCH. 80 PVC
- NOTE:** EACH MANIFOLD SHALL HAVE A MAXIMUM OF 15' SEPARATION. ALL MANIFOLDS ARE TO BE INSTALLED IN PLANTER AREAS WHENEVER POSSIBLE.

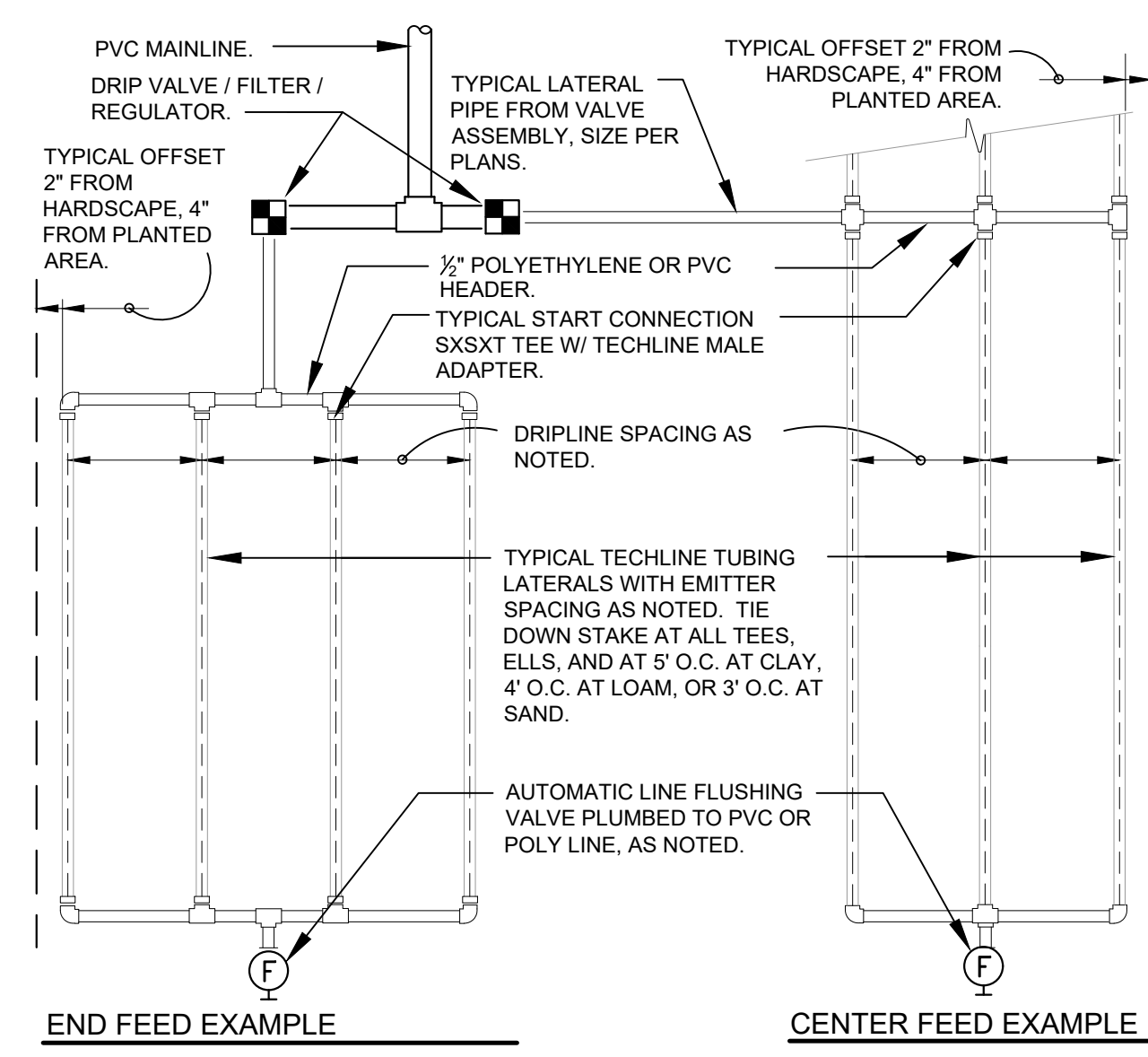


- LEGEND:**
- ① FINISH GRADE
  - ② VALVE BOX WITH COVER PER IRRIGATION SPECIFICATIONS
  - ③ WATERPROOF CONNECTION, TYPICAL
  - ④ VALVE ID TAG
  - ⑤ 30-INCH LINEAR LENGTH OF WIRE, COILED
  - ⑥ PRESSURE REGULATING FILTER PER MANUFACTURER'S RECOMMENDATIONS
  - ⑦ PVC SCH 40 FEMALE ADAPTOR
  - ⑧ LATERAL PIPE
  - ⑨ REMOTE CONTROL VALVE AS SPECIFIED ON IRRIGATION LEGEND
  - ⑩ PVC SCH 40 ELL
  - ⑪ PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
  - ⑫ PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
  - ⑬ PVC SCH 40 TEE OR ELL
  - ⑭ PVC MAINLINE
  - ⑮ 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

**1 MAINLINE/DIRECT BURIAL CONTROL WIRE**  
NO SCALE

**2 MANIFOLD CONFIGURATION**  
NO SCALE

**3 TYPICAL DRIP CONTROL VALVE KIT**  
NO SCALE

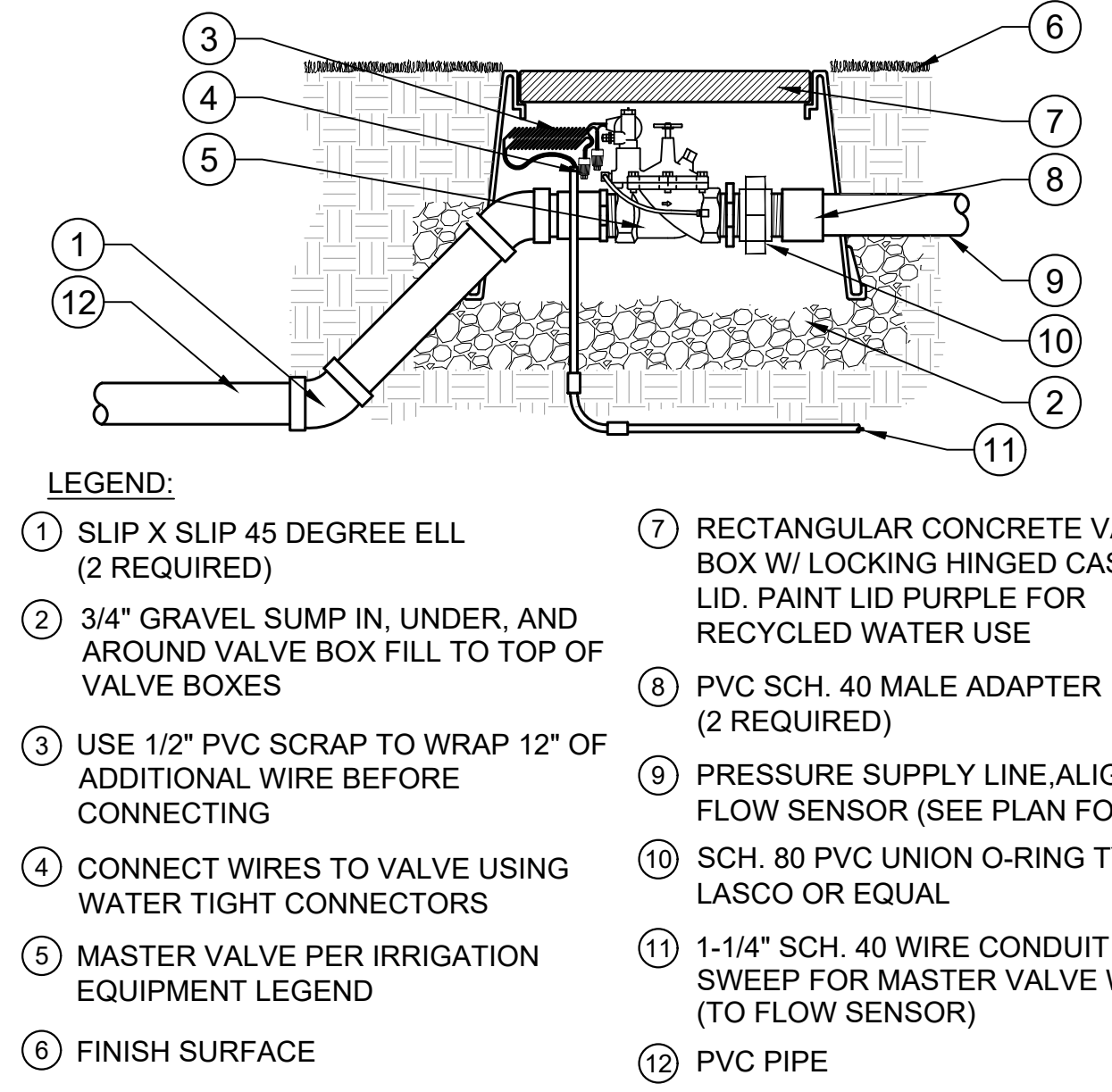
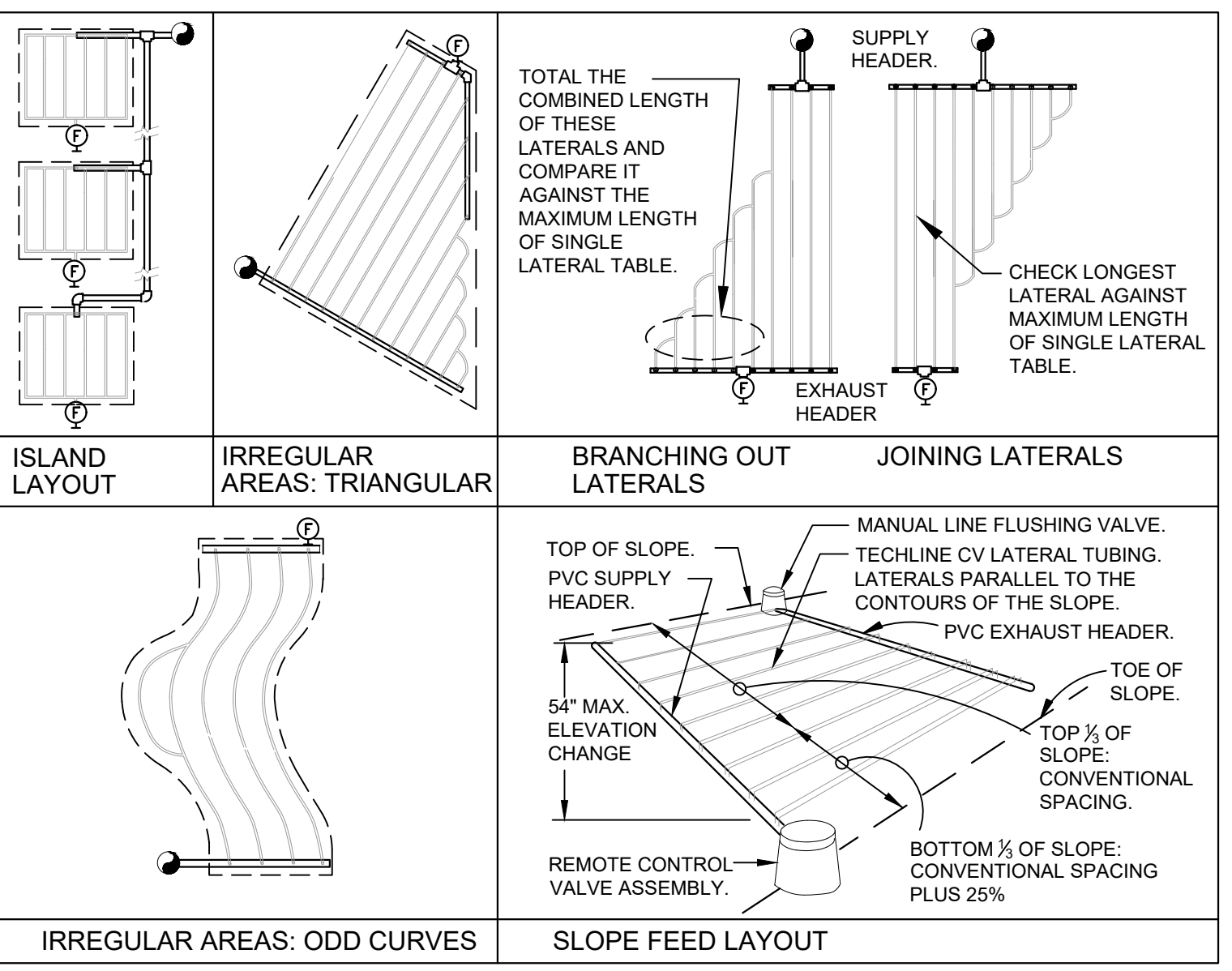
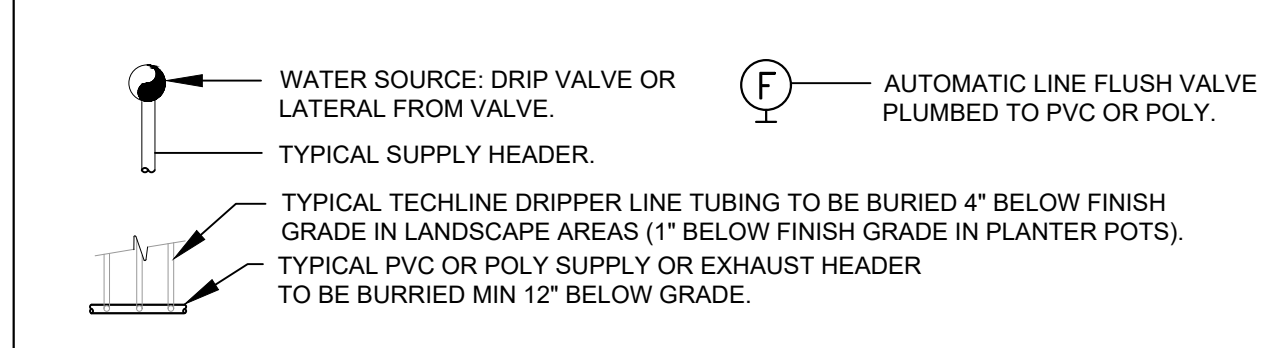


**4 TYPICAL DRIPLINE REQUIREMENTS**  
NO SCALE

TECHLINE CV MAXIMUM LENGTH OF SINGLE LATERAL (FEET)											
DRIPPER SPACING		12"			18"			24"			
DRIPPER FLOW RATE (GPH)		0.26	0.4	0.6	0.9	0.26	0.4	0.6	0.9		
INLET PRESSURE (PSI)	15	127	109	86	65	177	151	120	91	152	116
	25	427	325	256	194	604	459	361	274	458	348
	35	539	409	322	244	763	579	456	346	580	440
	45	618	469	369	280	877	664	523	397	666	506

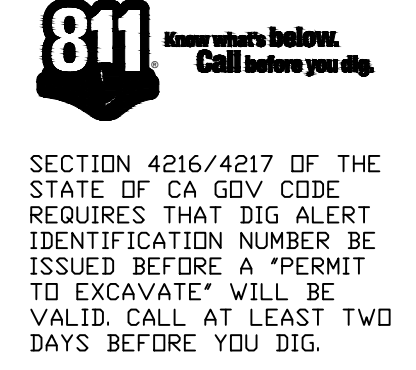
  

TECHLINE CV FLOW PER 100 FEET									
DRIPPER SPACING		0.26 GPH DRIPPER		0.4 GPH DRIPPER		0.6 GPH DRIPPER		0.9 GPH DRIPPER	
DRIPPER SPACING		GPH	GPM	GPH	GPM	GPH	GPM	GPH	GPM
12"		26.40	0.44	40.00	0.67	61.00	1.02	92.00	1.53
18"		17.58	0.29	26.67	0.44	41.00	0.68	61.00	1.02
24"		N/A	N/A	N/A	N/A	31.00	0.51	46.00	0.77



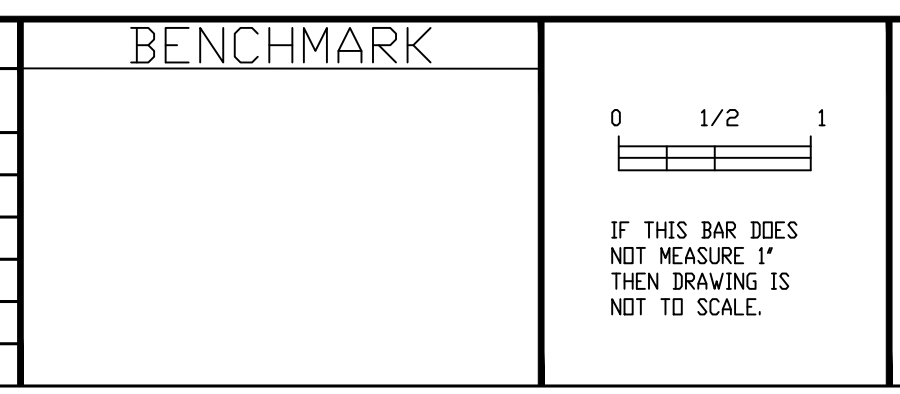
**5 MASTER VALVE**  
NO SCALE

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CONNECT MAIN STREET PHASE 3			
LANDSCAPE IRRIGATION DETAILS			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 31 OF 37 SHEETS		7/20/23	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	SDG		
AS-BUILTS			
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
1848-6321 NAD83 COORDINATES		206-1755 & 210-1755 LAMBERT COORDINATES	
LI-2.0			

CONSTRUCTION CHANGE TABLE		
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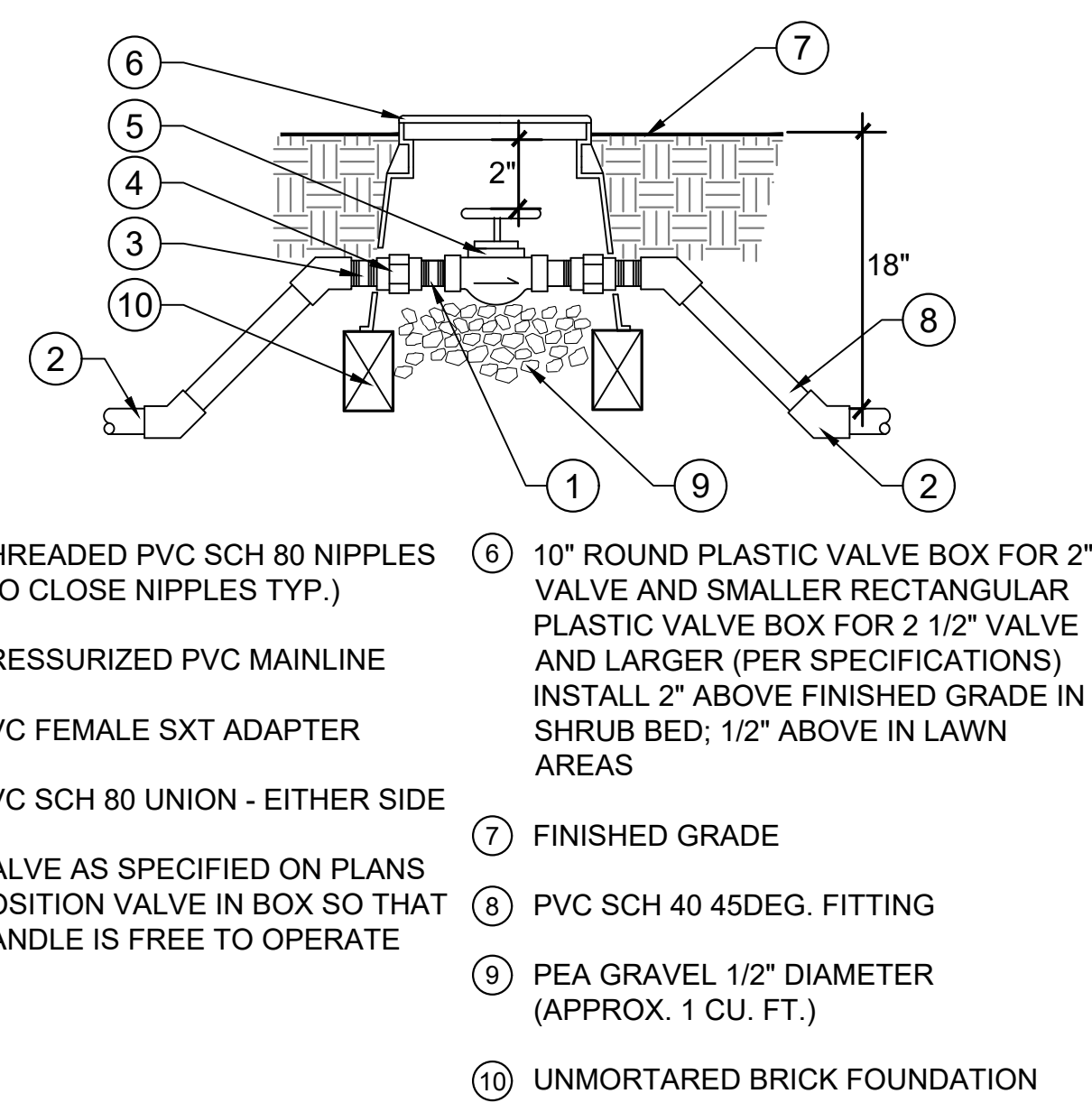
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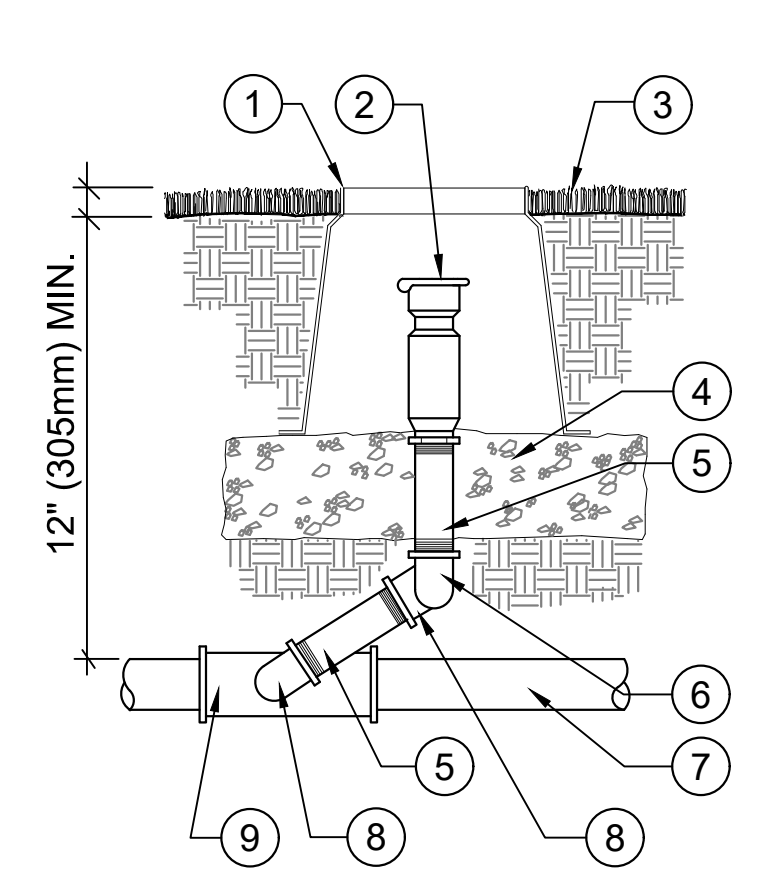
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MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40





- 1 THREADED PVC SCH 80 NIPPLES (NO CLOSE NIPPLES TYP.)
- 2 PRESSURIZED PVC MAINLINE
- 3 PVC FEMALE SXT ADAPTER
- 4 PVC SCH 80 UNION - EITHER SIDE
- 5 VALVE AS SPECIFIED ON PLANS POSITION VALVE IN BOX SO THAT HANDLE IS FREE TO OPERATE
- 6 10" ROUND PLASTIC VALVE BOX FOR 2" VALVE AND SMALLER RECTANGULAR PLASTIC VALVE BOX FOR 2 1/2" VALVE AND LARGER (PER SPECIFICATIONS) INSTALL 2" ABOVE FINISHED GRADE IN SHRUB BED; 1/2" ABOVE IN LAWN AREAS
- 7 FINISHED GRADE
- 8 PVC SCH 40 45DEG. FITTING
- 9 PEA GRAVEL 1/2" DIAMETER (APPROX. 1 CU. FT.)
- 10 UNMORTARED BRICK FOUNDATION

**1 BALL / GATE ISOLATION VALVE**  
NOT TO SCALE

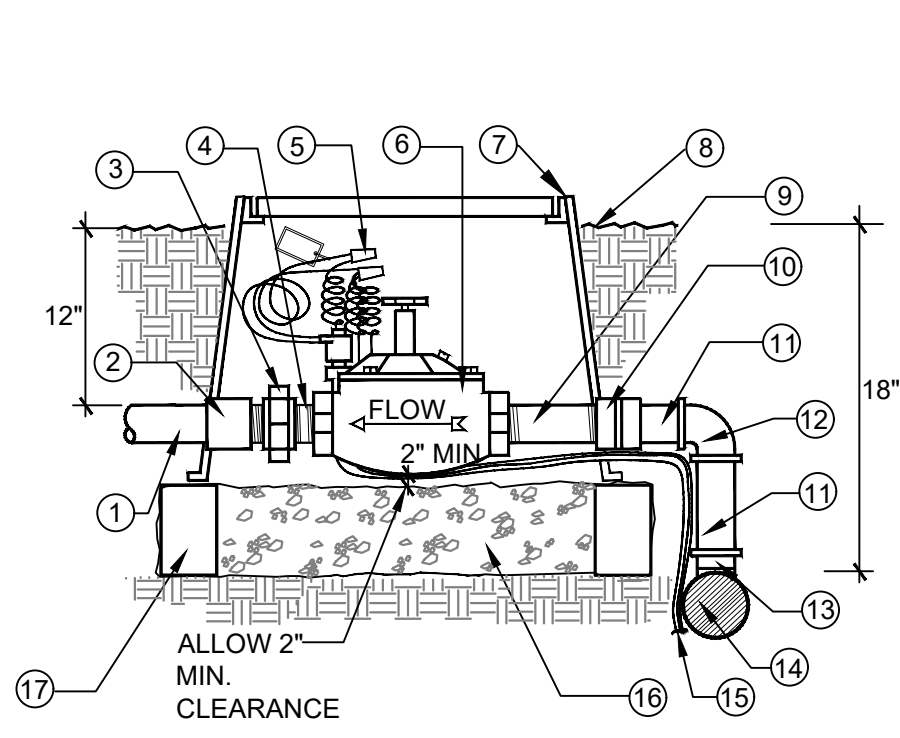


- LEGEND:**
- 1 10" (254mm) ROUND PLASTIC VALVE BOX WITH LOCKING COVER AND Q.C. LABELED TOP.
  - 2 QUICK COUPLER VALVE WITH ACME THREADS PER PLANS.
  - 3 FINISH GRADE. ALLOW 2" (50mm) DEPTH FOR TOP MULCH OR 1" DEPTH AT LAWN
  - 4 ONE CUBIC FOOT (.03m) PEA GRAVEL.
  - 5 SCH.80 P.V.C. NIPPLE.
  - 6 P.V.C. ELL (TXT).
  - 7 SCH.40 P.V.C. MAINLINE.
  - 8 MARLEX STREET ELLS (2) REQUIRED PER QUICK COUPLER.
  - 9 SCH.40 P.V.C. TEE (SXSXT).

**NOTES:**

- ALL P.V.C. FITTINGS SHALL BE SCH. 40 EXCEPT WHERE NOTED.
- ALL SCH.80 P.V.C. THREADS SHALL BE WRAPPED WITH TEFLON TAPE. QUICK COUPLER VALVES SHALL BE OF A TYPE APPROVED FOR RECYCLED WATER.

**2 QUICK COUPLER**  
NO SCALE

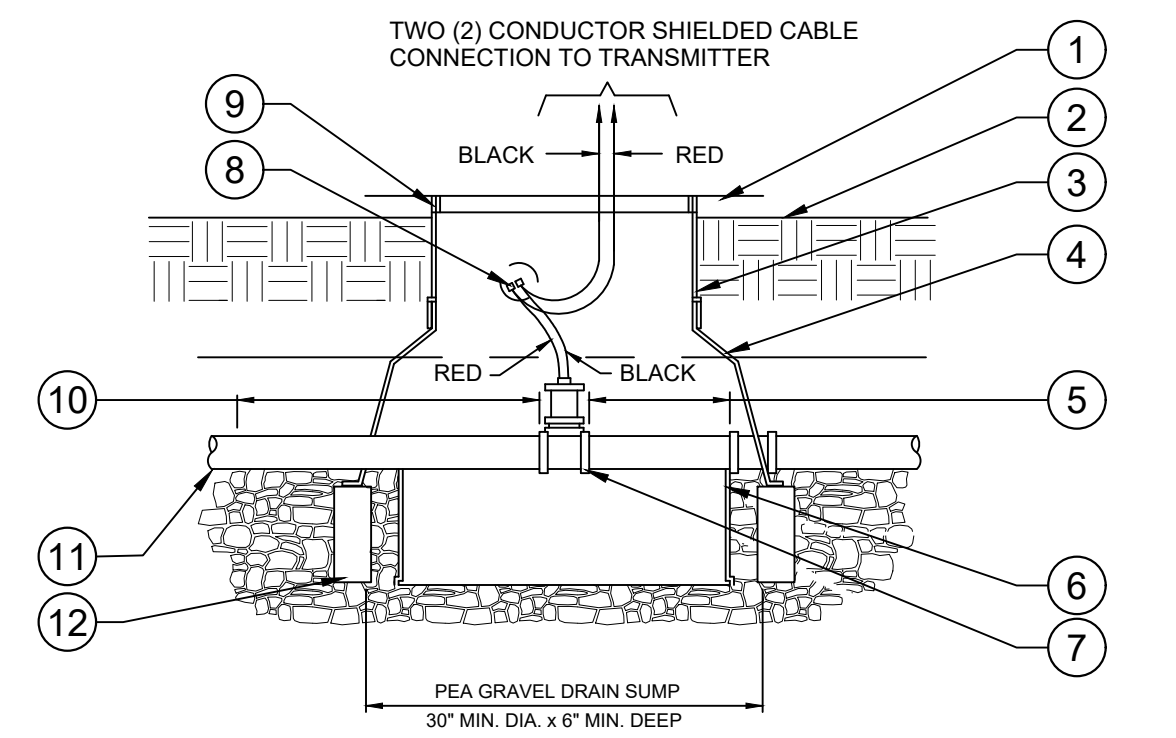


- LEGEND:**
- 1 P.V.C. LATERAL LINE PER LEGEND.
  - 2 P.V.C. MALE ADAPTER
  - 3 SCH. 80 P.V.C. UNION (TXT) O-RING TYPE LASCO OR EQUAL
  - 4 SCH.80 P.V.C. NIPPLE
  - 5 WATERPROOF WIRE CONNECTORS PER NOTES REMOTE CONTROL ELECTRIC VALVE PER LEGEND
  - 6 12" RECTANGULAR PLASTIC VALVE BOX (CARSON) WITH LOCKING LID, CONTROLLER AND VALVE NUMBER HEAT BRANDED INTO TOP MULCH IN SHRUB BEDS SET FLUSH IN TURF
  - 7 SCH.80 P.V.C. NIPPLE
  - 8 SCH.80 FEMALE ADAPTER (TXS)
  - 9 P.V.C. PIPE
  - 10 SCH.40 P.V.C. ELL (SXS)
  - 11 SCH.40 P.V.C. TEE MAINLINE
  - 12 PRESSURIZED P.V.C. MAINLINE (SXSXS) PER LEGEND
  - 13 24 VOLT DIRECT BURIAL WIRES FROM CONTROLLER PER LEGEND.
  - 14 1 CUBIC FOOT PEA GRAVEL MIN. SUPPORTING VALVE BOX
  - 15 UNMORTARED BRICK FOUNDATION

**NOTES:**

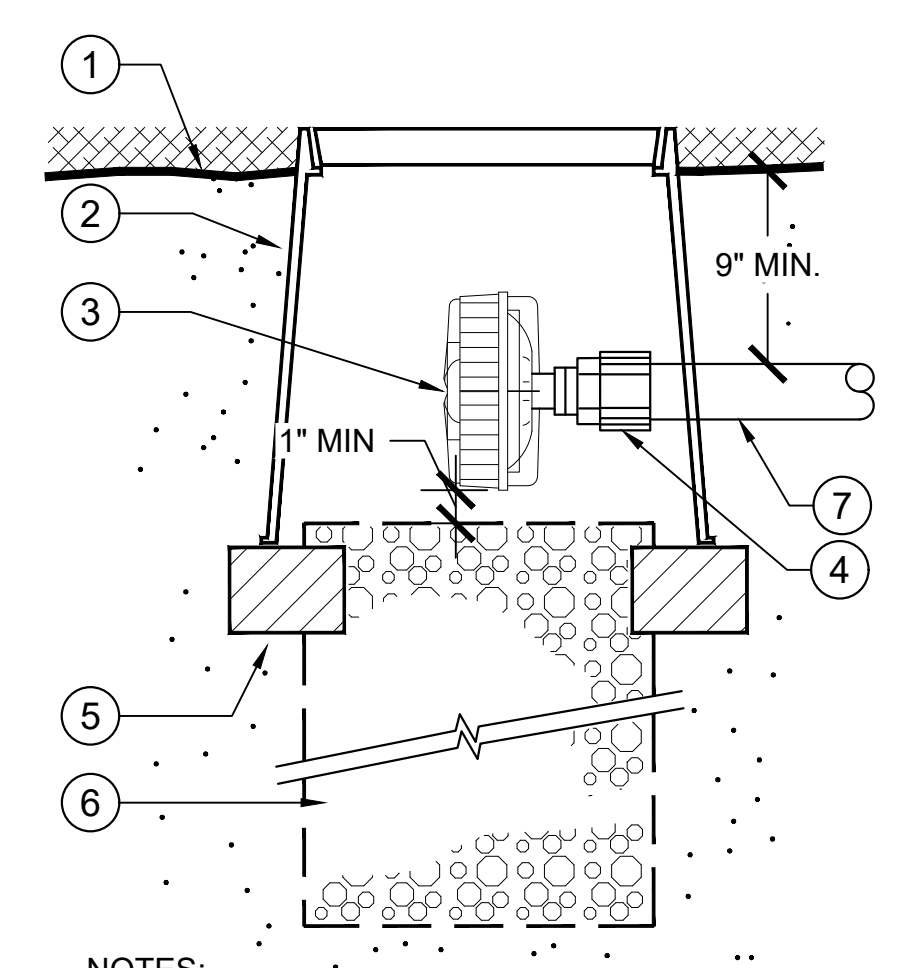
- ALL THREADED PIPE CONNECTIONS WILL BE SEALED WITH OVERLAPPING WRAPS OF TEFLON TAPE AS REQUIRED TO PREVENT LEAKAGE.
- WIRE CONNECTORS WILL BE K.B. "ONE-STEP" PRE-FILLED (TAN) OR EQUAL.
- DIRECT BURIAL COMMON AND CONTROL WIRES WILL BE COILED TO PROVIDE 12" EXPANSION COILS INSIDE VALVE BOX.

**3 REMOTE CONTROL VALVE**  
NO SCALE



- 1 1" IN TURF AREAS 2" IN SHRUB AREAS
- 2 FINISH GRADE
- 3 EXTENSION
- 4 JUMBO BOX
- 5 5 x PIPE DIA.
- 6 EXTENSION
- 7 FLOW SENSOR
- 8 WATERPROOF CONNECTIONS
- 9 JUMBO PLASTIC VALVE BOX W/ 2-6" EXTENSIONS AND LOCKING COVER, AMETEK OR EQUAL
- 10 10 x PIPE DIA.
- 11 MAINLINE
- 12 BRICK REINFORCEMENT, TYPICAL

**4 FLOW SENSOR**  
NO SCALE

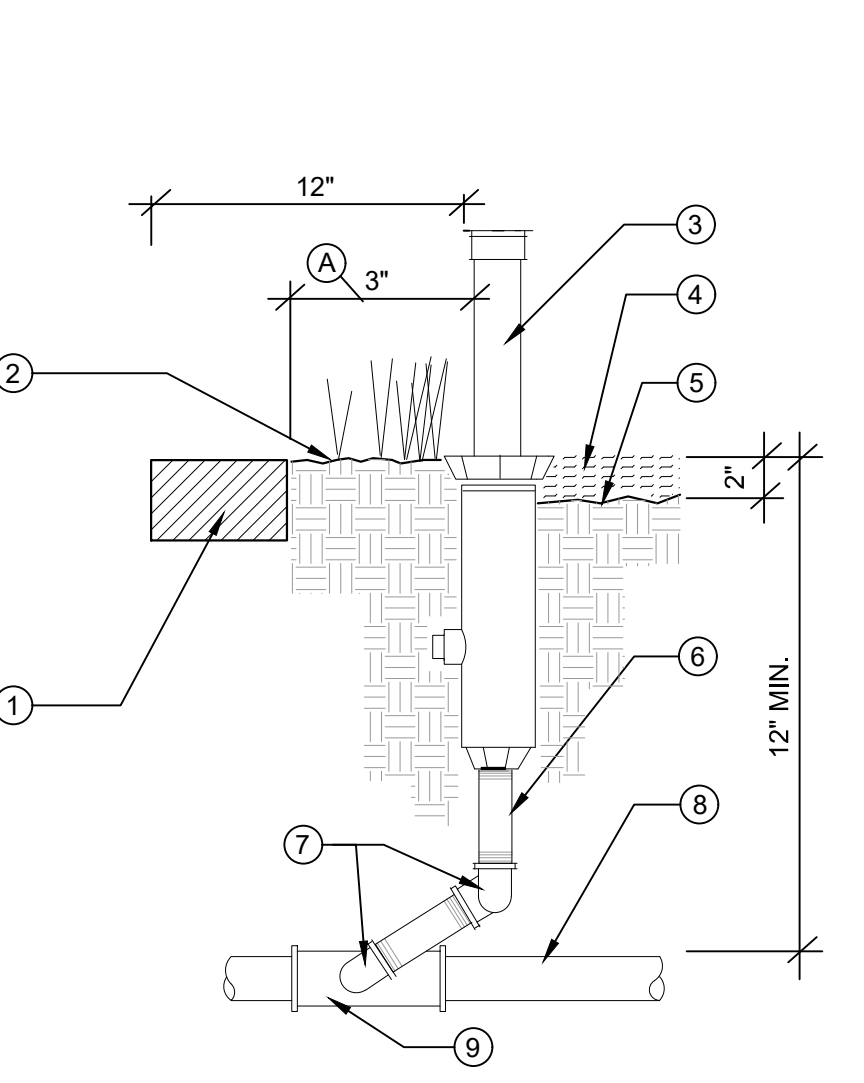


- 1 FINISH GRADE; 3" BELOW TOP OF LID IN PLANTING BED WITH MULCH, TYPICAL
- 2 VALVE BOX, PER SPECIFICATIONS
- 3 AUTOMATIC LINE FLUSHING VALVE PER LEGEND
- 4 PRC REDUCER ADAPTER S X 1/2" FPT (SIZE AS REQ'D)
- 5 BRICK SUPPORTS (THREE, TYPICAL)
- 6 3/4" GRAVEL SUMP; 1 CUBIC FOOT
- 7 PLUMBED TO PVC LATERAL OR EXHAUST HEADER

**NOTES:**

- INSTALL PER MANUFACTURE'S RECOMMENDATIONS.
- INSTALL AT LOWEST POINT(S) ON A SYSTEM.
- ALL VALVE BOXES TO INCLUDE 1/4" GALVANIZED STEEL WIRE MESH AND FABRIC (FOR RODENT CONTROL) AND INCLUDE BOLTS AND WASHERS (FOR BEEHIVE CONTROL).

**5 AUTOMATIC FLUSH VALVE**  
NO SCALE



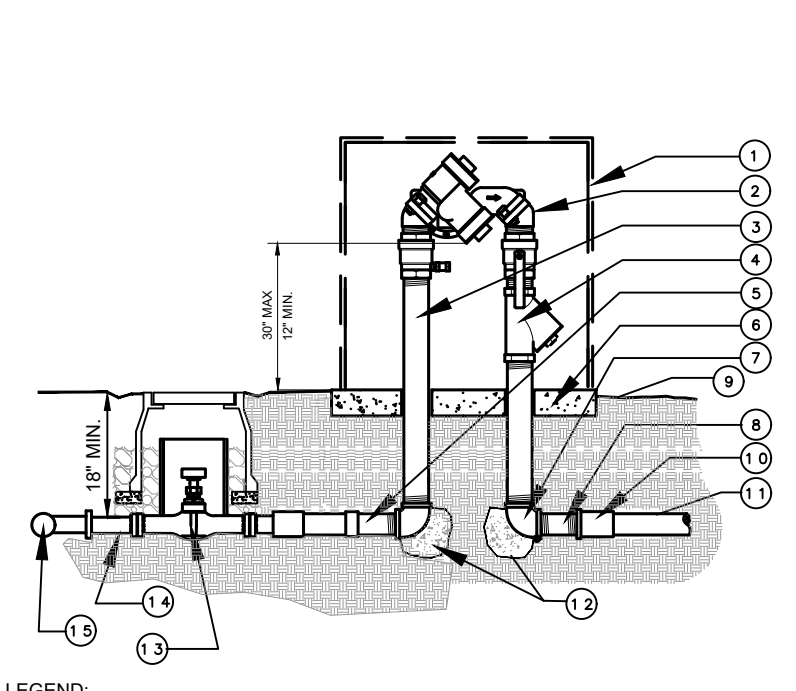
- LEGEND:**
- 1 WALK OR CURB
  - 2 FINISH GRADE IN TURF AREAS
  - 3 POP-UP ROTOR HEAD AND NOZZLE
  - 4 MULCH LAYER IN PLANTING AREAS
  - 5 FINISH GRADE IN PLANTING AREAS
  - 6 SCH.80 P.V.C. NIPPLE (2 EACH) SIZE PER HEAD INLET
  - 7 PVC STREET ELL (2 EACH) SIZE PER HEAD INLET
  - 8 P.V.C. LATERAL (PER PLAN)
  - 9 P.V.C. TEE OR ELL (SXSXT)

**NOTES:**

- ALL P.V.C. FITTINGS SHALL BE SCH. 40 EXCEPT WHERE NOTED.
- ALL SCH.80 P.V.C. THREADS SHALL BE WRAPPED WITH TEFLON TAPE, OR RECOMMENDED BY MANUFACTURER

**A** 3" SPRAY DISTANCE  
**B** 6" ROTOR SPRAY DISTANCE

**6 POP-UP ROTOR/SPRAY HEAD**  
NO SCALE

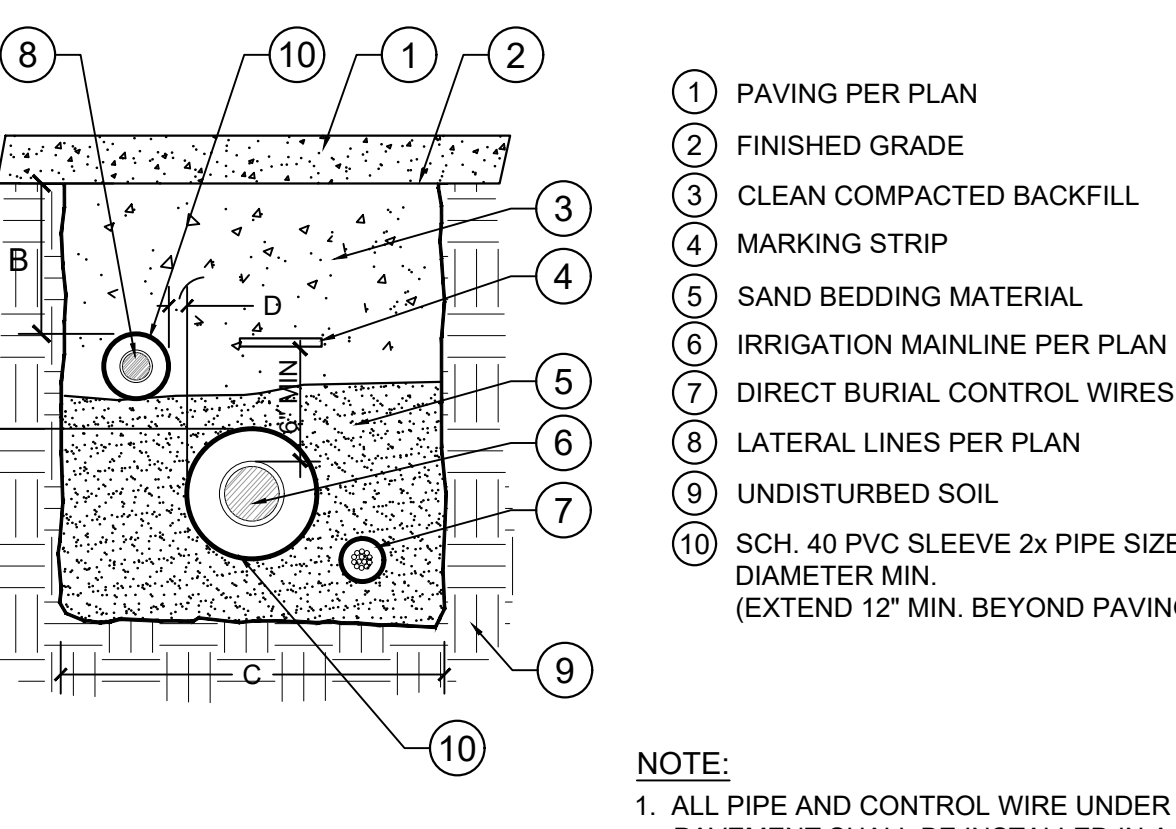


- LEGEND:**
- 1 PROTECTIVE ENCLOSURE PER PLANS INSTALL PER THE MANUFACTURER'S SPECS.
  - 2 REDUCED PRESSURE BACKFLOW PREVENTION DEVICE MODEL R25YA OR EQ LENGTH AS NEEDED
  - 3 BRASS THREADED RISER
  - 4 WYE STRAINER (LINE SIZE)
  - 5 BRASS MALE ADAPTER
  - 6 6" THICK CONCRETE PAD
  - 7 COPPER THREADED ELL (2 REQUIRED)
  - 8 COPPER TEE AT COPPER LINE FROM METER TO IRRIGATION
  - 9 FINISH SURFACE
  - 10 SCH. 40 PVC MALE ADAPTER
  - 11 PVC SUPPLY LINE TO IRRIGATION PER PLANS FROM METER
  - 12 CONCRETE THRUST BLOCKS. 1 CUBIC FT. MIN.
  - 13 LINE SIZE BALL VALVE PER DETAIL
  - 14 TYPE "K" COPPER LINE (SIZE PER PLAN) WITH COPPER SOLDER FITTINGS AS REQ'D.
  - 15 COPPER TEE AT COPPER LINE FROM METER TO IRRIGATION
  - 16 4" TYPE "K" COPPER NIPPLE

**NOTES:**

- ALL VALVES, FITTINGS & PIPES SHOWN ARE TO BE LINE SIZED EXCEPT WHERE INDICATED.
- INSTALLATION SPECIFICATIONS SHOWN ARE SCHEMATIC AND DO NOT SUPERCEDE OR REPLACE ANY CITY OR STATE REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE CODES.
- ALL THREADED CONNECTIONS SHALL BE SEALED WITH OVERLAPPING TURNS OF TEFLON TAPE SUFFICIENT TO PREVENT LEAKAGE.
- BACKFLOW PREVENTER ASSEMBLY SHALL BE TESTED UPON INSTALLATION BY A CERTIFIED BACKFLOW DEVICE TESTER. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH WRITTEN TEST RESULTS COMPLETED BY A CERTIFIED BACKFLOW TESTER PRIOR TO BACKFLOW PREVENTER ASSEMBLY'S ACCEPTANCE BY THE ENGINEER.
- ALL METAL IN CONTACT WITH CONCRETE SHALL BE POLYETHYLENE WRAPPED USING 2" WIDE PLASTIC BACKED ADHESIVE TAPE MIN. 2 MILS. THICK WITH 1/2" OVERLAP.
- FACTORY ASSEMBLED DOUBLE CHECK ASSEMBLY REDUCED PRESSURE PRINCIPLE ASSEMBLY SHALL BE INCLUDED IN THE LATEST EDITION OF THE APPROVED FOR SERVICE ISOLATION IN CALIFORNIA PUBLIC WATER SYSTEMS ISSUED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES, OFFICE OF DRINKING WATER.

**7 BACKFLOW PREVENTER ASSEMBLY**  
NTS



- 1 PAVING PER PLAN
- 2 FINISHED GRADE
- 3 CLEAN COMPACTED BACKFILL
- 4 MARKING STRIP
- 5 SAND BEDDING MATERIAL
- 6 IRRIGATION MAINLINE PER PLAN
- 7 DIRECT BURIAL CONTROL WIRES
- 8 LATERAL LINES PER PLAN
- 9 UNDISTURBED SOIL
- 10 SCH. 40 PVC SLEEVE 2x PIPE SIZE DIAMETER MIN. (EXTEND 12" MIN. BEYOND PAVING)

**8 SLEEVING UNDER PAVEMENT**  
NTS

SEE SHEET LI-1.0 FOR IRRIGATION LEGEND & NOTES  
SEE SHEET LI-1.1 - LI-1.3 FOR IRRIGATION PLANS  
SEE SHEET LI-2.0 - LI-2.2 FOR IRRIGATION DETAILS

**SCHMIDT DESIGN GROUP**  
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LIC. CA 2138 (REV. 2019) A2 34339  
SCHMIDTDESIGN.COM  
SDG PROJECT #: 20-107  
PLT DATE: 6/20/2023  
DRAWN BY: TS, CH, BP  
CHECKED BY: JJ

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

SECTION 4216/4217 OF THE STATE OF CA GOV CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. CALL AT LEAST TWO DAYS BEFORE YOU DIG.

CONNECT MAIN STREET PHASE 3

LANDSCAPE IRRIGATION DETAILS

CITY OF LEMON GROVE, CALIFORNIA		DEVELOPMENT SERVICES DEPARTMENT		SHEET 32 OF 37 SHEETS	
DATE: 7/20/23		DATE: 7/20/23		DATE: 7/20/23	
DESCRIPTION	BY	APPROVED	DATE	FILMED	
ORIGINAL	SDG				
AS-BUILTS				1848-6321 NAD83 COORDINATES	
CONTRACTOR		DATE STARTED		206-1755 & 210-1755 LAMBERT COORDINATES	
INSPECTOR		DATE COMPLETED		LI-2.1	

**CONSTRUCTION CHANGE TABLE**

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

**BENCHMARK**

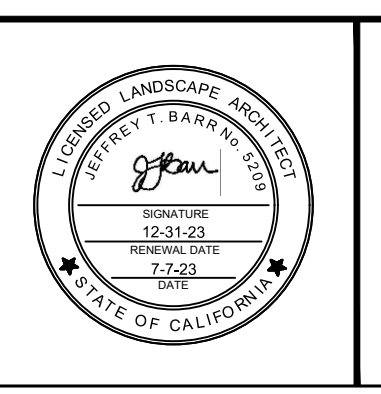
0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

**CHEN + RYAN ASSOCIATES**

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CAUTION! LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

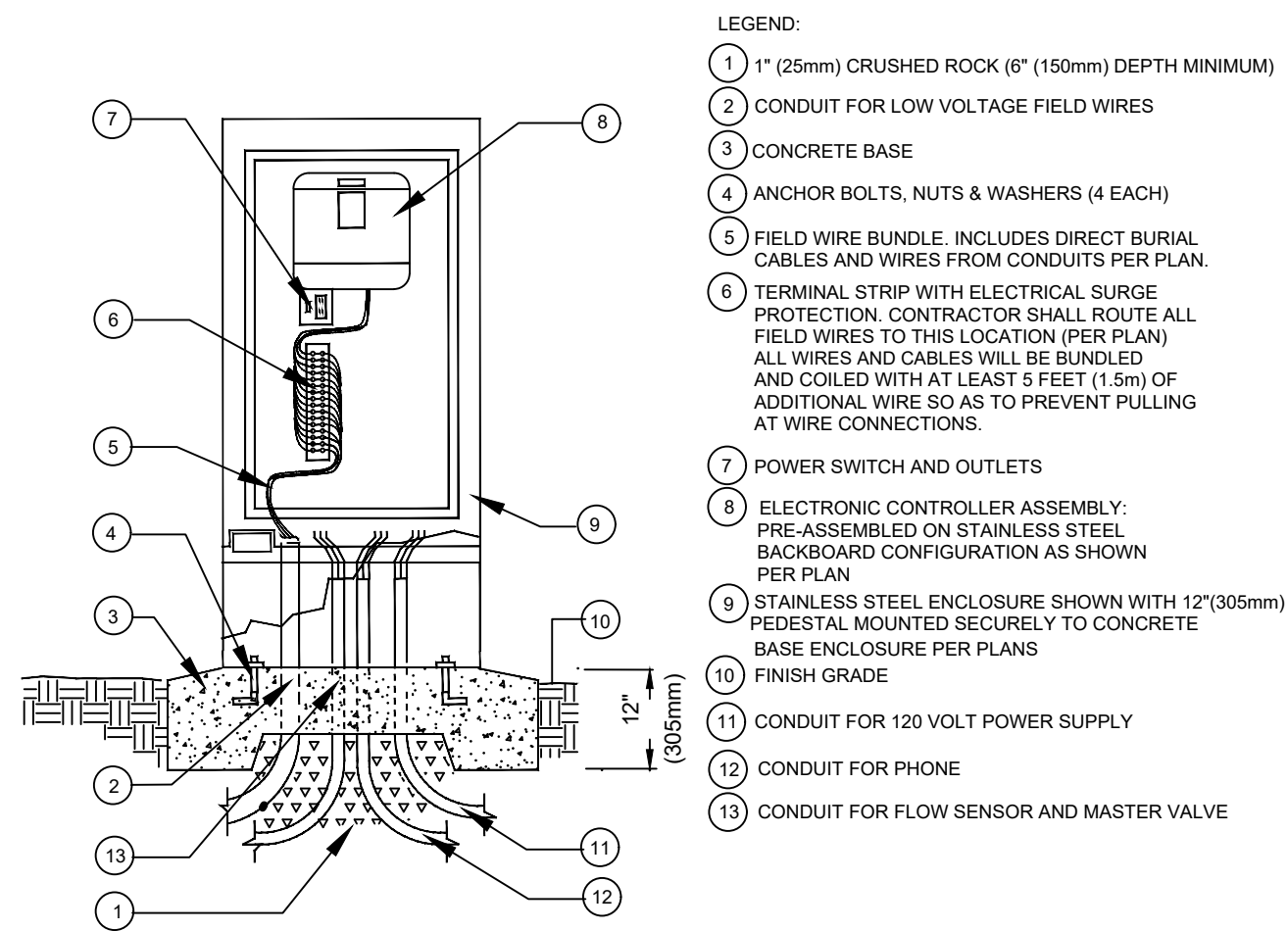


**STREET DATA TABLE**

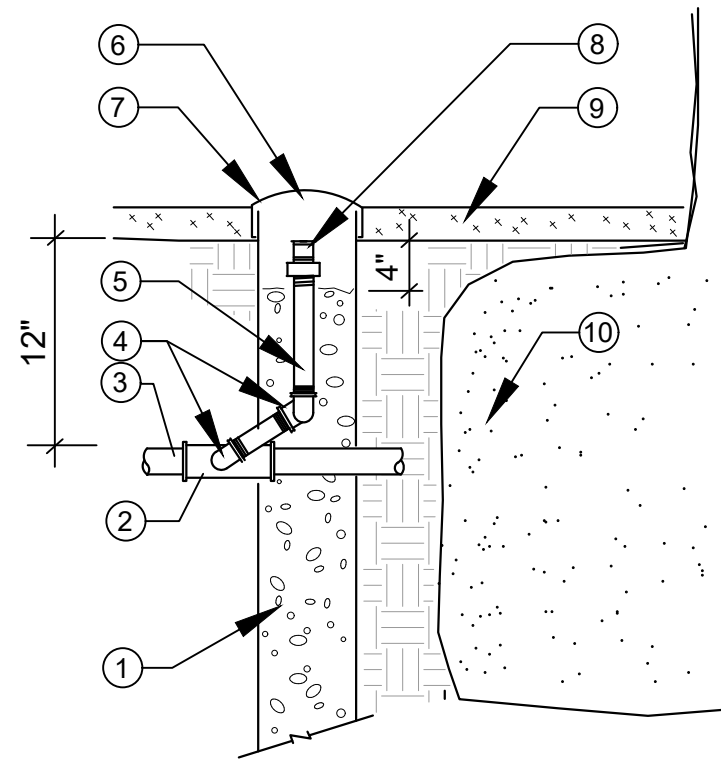
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

FINAL CONSTRUCTION DRAWINGS

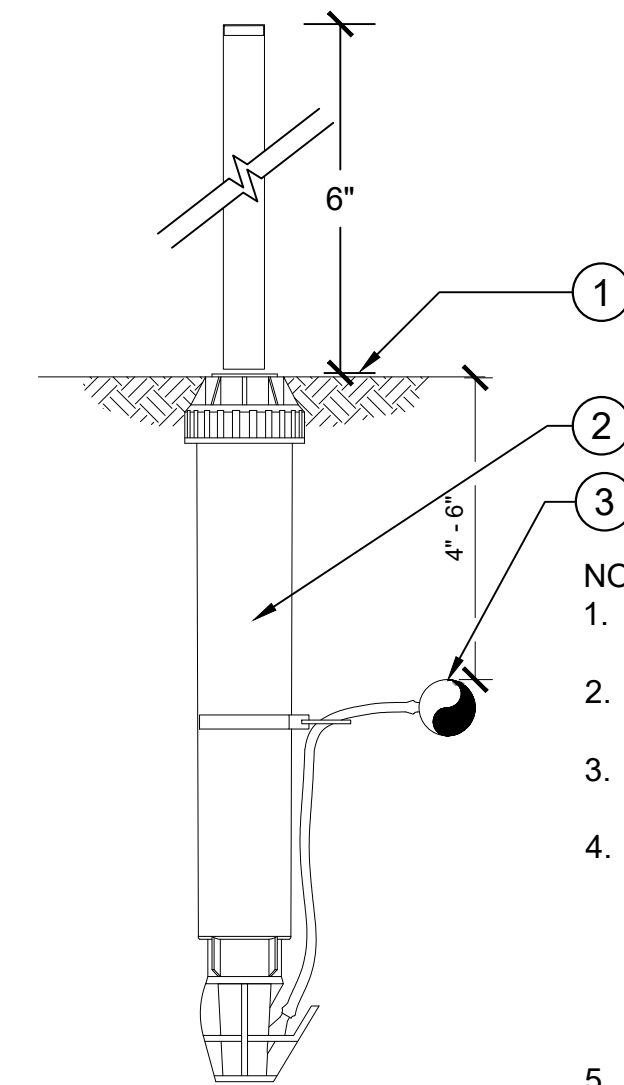




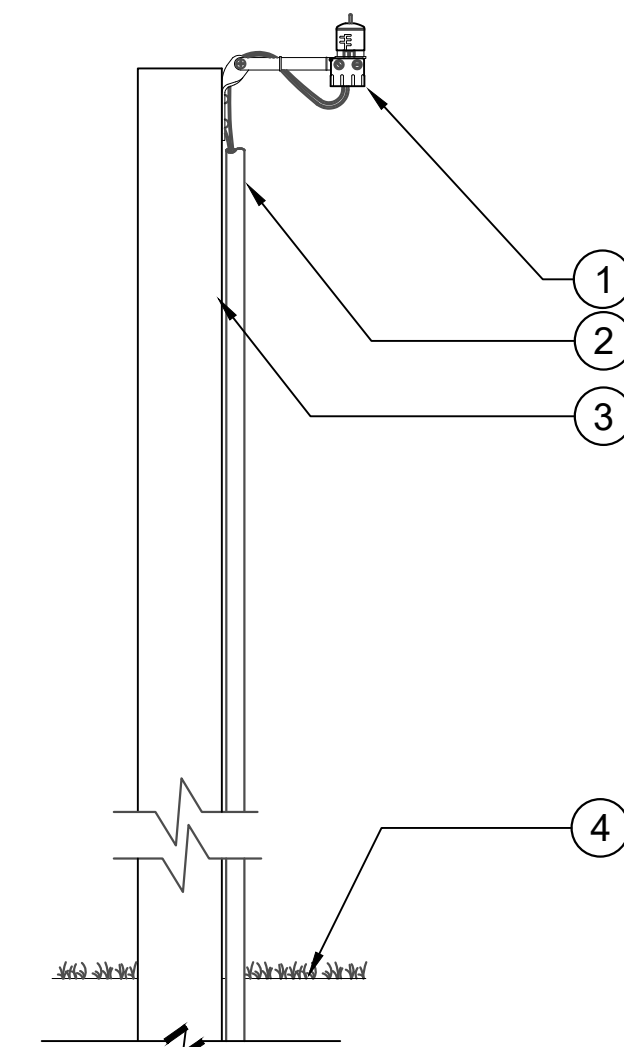
1 CONTROLLER WITH STAINLESS STEEL ENCLOS. 1" = 1"



2 BUBBLER AT TREE PLANTING NTS



3 RAIN BIRD SUB-SURFACE DRIP INDICATOR NO SCALE



4 RAIN SENSOR 1 1/2" = 1'-0"

SEE SHEET LI-1.0 FOR IRRIGATION LEGEND & NOTES  
 SEE SHEET LI-1.1 - LI-1.3 FOR IRRIGATION PLANS  
 SEE SHEET LI-2.0 - LI-2.2 FOR IRRIGATION DETAILS

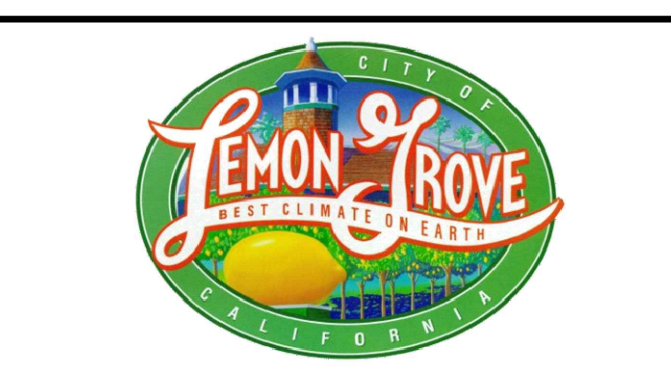
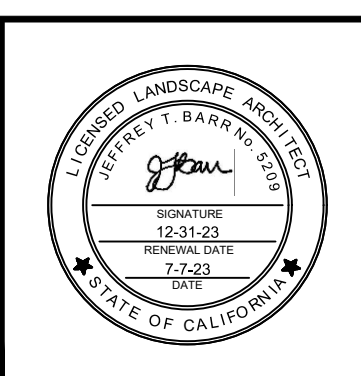


SECTION 4216/4217 OF THE STATE OF CA GOV CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A 'PERMIT TO EXCAVATE' WILL BE VALID. CALL AT LEAST TWO DAYS BEFORE YOU DIG.

CONNECT MAIN STREET PHASE 3			
LANDSCAPE IRRIGATION DETAILS			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 33 OF 37 SHEETS		DATE: 7/20/23	
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	SDG		
AS-BUILTS			
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		1848-6321 NAD83 COORDINATES	
		206-1755 & 210-1755 LAMBERT COORDINATES	
		LI-2.2	

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS


**CHEN RYAN ASSOCIATES**  
 3900 Fifth Avenue, Ste 310 • San Diego, CA 92103 | 619.795.6086  
 CAUTION!! LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.



STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40



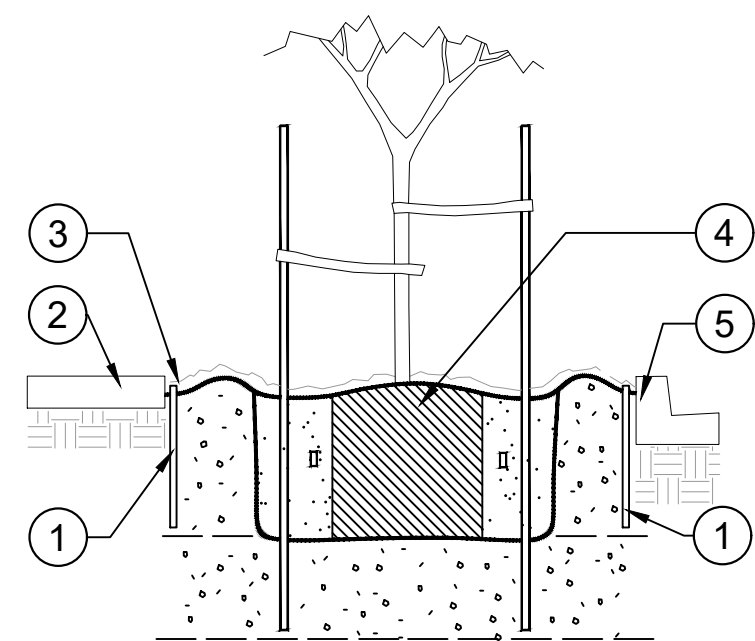
**PLANTING NOTES**

- CONTRACTOR SHALL REVIEW PLANTING SPECIFICATIONS BEFORE BEGINNING WORK.
- CONTRACTOR SHALL REVIEW PLANTING INSTALLATION DETAILS PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL VISIT SITE AND BECOME FAMILIAR WITH CONDITIONS UNDER WHICH WORK SHALL BE DONE PRIOR TO BIDDING.
- ALL WORK WILL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF LEMON GROVE AND THE TECHNICAL SPECIFICATIONS FOR THE PROJECT.
- CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECTS OF ANY DISCREPANCIES IN THE EXISTING CONDITIONS OR WITHIN THE PLANS PRIOR TO BEGINNING WORK.
- FINISHED GRADES SHALL BE SMOOTHED TO ELIMINATE PUDDLING OR STANDING WATER. CONTRACTOR SHALL MAINTAIN A MINIMUM 2% DRAINAGE AWAY FROM BUILDINGS AND PAVING INTO DRAINAGE STRUCTURES OR TO STREET (SEE ENGINEERS GRADING AND DRAINAGE PLAN). CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECTS IMMEDIATELY OF ANY CONFLICTS IN MAINTAINING DRAINAGE.
- LANDSCAPE ARCHITECTS SHALL APPROVE ALL FINISH GRADING PRIOR TO PLACEMENT OF ANY PLANT MATERIAL.
- CONTRACTOR SHALL IMMEDIATELY, UPON THE AWARD OF THE CONTRACT, ORDER, LOCATE AND PURCHASE (OR HAVE HELD) ALL PLANT MATERIAL REQUIRED BY THESE PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECTS FOR OBSERVATION AT THE FOLLOWING TIMES:
  - MAINLINE - PRIOR TO BACKFILL AND PRESSURE TEST
  - LATERAL LINES - PRIOR TO BACKFILL
  - CONTROL WIRES - PRIOR TO BACKFILL
  - TREE LOCATIONS - PRIOR TO PLANTING
  - IRRIGATION COVERAGE - PRIOR TO PLANT PLACEMENT
  - PLANT APPROVAL AND SPOTTING PRIOR TO PLANTING
  - PRE-MAINTENANCE APPROVAL
  - POST-MAINTENANCE/FINAL APPROVAL.
- SOIL AMENDMENTS SPECIFIED ARE FOR BIDDING PURPOSES ONLY. ACTUAL TYPES AND QUANTITIES WILL BE BASED ON SOIL ANALYSIS PROVIDED BY CONTRACTOR. AFTER ROUGH GRADING, SOIL SAMPLES SHALL BE TAKEN FROM 3 LOCATIONS IN DIFFERENT AREAS OF THE SITE TO REPRESENT AN ADEQUATE CROSS SECTION OF CONDITIONS. TEST SHALL INCLUDE TESTS FOR SOIL FERTILITY, AGRICULTURAL SUITABILITY ORGANIC CONTENT N, P, K; PH; EC; SOIL TEXTURE; AND RECOMMENDATIONS FOR AMENDMENTS, LEACHING, AND MAINTENANCE FERTILIZATION. CONTRACTOR SHALL FURNISH OWNER'S REPRESENTATIVE WITH A COPY OF TEST RESULTS AND RECEIVE WRITTEN APPROVAL FOR AMENDMENTS/SOIL PREPARATION PRIOR TO INSTALLATION.
- THE FOLLOWING AMENDMENT MIXES ARE FOR CONTRACTOR BID PURPOSES (AND TO BE MODIFIED PER SOIL ANALYSIS RECOMMENDATIONS AS NECESSARY):
  - A) BID MIX FOR SHRUB BED AREAS:
    - SOIL AMENDMENTS BID MIX SHALL BE THE FOLLOWING PER 1000 SQUARE FEET:
      - 4 CU. YDS. NITROGEN STABILIZED ORGANIC AMENDMENT "HUMIC COMPOST" BY AGRI-SERVICE (800-262-4167) OR APPROVED EQUAL.
      - 20 LBS. GRO-POWER PLUS
      - 100 LBS. GYPSUM
    - B) BID MIX FOR PLANT PIT BACKFILL AREAS:
      - PLANTING AND BACKFILL MIX FOR PLANT PITS SHALL BE AS FOLLOWS PER CUBIC YARD:
        - 70% OF NATIVE SOIL
        - 30% NITROGEN STABILIZED ORGANIC AMENDMENT: "HUMIC COMPOST" BY AGRI-SERVICE (800-262-4167) OR APPROVED EQUAL.
        - 16 LBS GRO-POWER PLUS
        - 2 LBS. FERROUS SULFATE
      - THOROUGHLY BLEND THE ABOVE AT A CENTRAL ON-SITE LOCATION PRIOR TO USE. THE FERROUS SULFATE SHOULD NOT CONTACT PAVING SURFACES AS STAINING WILL RESULT.
  - SOIL LEACHING SPECIFIED IS FOR BID PURPOSES ONLY. ACTUAL DURATION AND SOIL AMENDMENTS FOR LEACHING, IF RECOMMENDED BY THE CONTRACTOR PROVIDED SOILS REPORT, WILL BE BASED ON SOIL ANALYSIS PROVIDED BY APPROVED SOILS LABORATORY. CONTRACTOR SHALL FURNISH THE OWNER'S REPRESENTATIVE WITH A COPY OF THE RECOMMENDATIONS AND RECEIVE WRITTEN APPROVAL FOR LEACHING AND AMENDMENTS PRIOR TO START OF THE

**LEACHING PROCESS.**

- LEACHING:**  
CONTRACTOR SHALL ASSUME ONE ROUND OF SOIL LEACHING AND RETESTING OF LEACHED SOIL PRIOR TO PLANTING. PRIOR TO LEACHING, APPLY 50 LBS. OF GYPSUM PER 1,000 SQUARE FEET AND LEACH FOR A MINIMUM OF TWO WEEKS.
- UNDER PLANT ALL TREES WITH THE ADJACENT SHRUB AND/OR GROUND COVER AS INDICATED BY THE PLANS. PLANTS SHALL BE INSTALLED WITH TRIANGULAR SPACING. PLANT GROUND COVERS TO WITHIN 12" OF TREE OR SHRUB STEMS. THE QUANTITY SPECIFIED WITHIN THE PLANS OR LEGEND SHALL BE THE REQUIRED MINIMUM HOWEVER, TRIANGULAR SPACING SHALL TAKE PRECEDENCE OVER QUANTITIES SPECIFIED FOR PROPER SPACING OF EXPECTED MATURE SIZE OF EACH SPECIES.
  - PLANT SYMBOLS TAKE PRECEDENCE OVER PLANT QUANTITIES SPECIFIED. WHERE SHRUB SYMBOLS ARE MASSED, CONTRACTOR SHALL MAINTAIN A CONSISTENT ON CENTER, TRIANGULAR SPACING AS SPECIFIED IN LEGEND. THE QUANTITY SPECIFIED WITHIN THE PLANS OR LEGEND SHALL BE THE REQUIRED MINIMUM HOWEVER, TRIANGULAR SPACING SHALL TAKE PRECEDENCE OVER QUANTITIES SPECIFIED FOR PROPER SPACING OF EXPECTED MATURE SIZE OF EACH SPECIES.
  - ALL ROCKS AND DEBRIS ONE INCH (1") AND LARGER SHALL BE REMOVED FROM PLANTING AREAS AND THEN FROM THE SITE TO A LEGAL SITE OF DISPOSAL.
  - PRIOR TO BEGINNING THE PLANTING OPERATION, IRRIGATE ALL PLANTING AREAS NORMALLY FOR TWO WEEKS TO GERMINATE WEEDS. APPLY CONTACT HERBICIDE TO WEEDS ONLY PER MANUFACTURER, MONSANTO "ROUND-UP" OR EQUAL. REPEAT PROCESS IF WEEDS PERSIST.
  - PRIOR TO PLANTING, IRRIGATION SYSTEM SHALL BE FULLY OPERATIONAL AND ALL PLANTING AREAS SHALL BE THOROUGHLY WATERED.
  - PLANT MATERIAL MAY BE REJECTED AT ANY TIME BY LANDSCAPE ARCHITECT DUE TO CONDITION, FORM OR DAMAGE BEFORE OR AFTER PLANTING.
  - ALL TREES WITHIN 5' OR LESS OF HARDSCAPE SHALL BE INSTALLED WITH A ROOT BARRIER. ROOT BARRIER SHALL BE INSTALLED PARALLEL TO HARDSCAPE SURFACE FOR A DISTANCE OF 10' FROM THE CENTER LINE OF THE TREE TRUNK IN BOTH DIRECTIONS, OR AS INDICATED ON PLAN. ROOT BARRIER TO BE MANUFACTURED BY "DEEPROOT UB-24-2".
  - ONE GALLON GROUND COVER MATERIALS SHALL BE PLANTED TO WITHIN 12" OF ADJACENT SHRUB STEMS.
  - ALL PLANTING BEDS SHALL HAVE 3" (THREE INCH) THICK MULCH LAYER. "MULCH" SHALL BE "FOREST FINES MULCH" FROM AGRISERVICE OR APPROVED EQUAL. PHONE: (800) 262-4167. RATES AS SPECIFIED ON PLANS, FREE OF STICKS, STONES, CLAY OR OTHER FOREIGN MATERIAL.
  - ALL PLANTING SHALL BE GUARANTEED THROUGH THE ESTABLISHMENT PERIOD (SEE PLANTING SPECIFICATIONS). ESTABLISHMENT PERIOD SHALL BE 90 DAYS. TREES AND SHRUBS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR, BEGINNING FROM THE DATE OF THE FINAL ACCEPTANCE OF THE ESTABLISHMENT PERIOD.
  - CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL AREAS IN A WEED AND DEBRIS-FREE CONDITION THROUGHOUT THE ESTABLISHMENT PERIOD.
  - PLANT MATERIAL SHALL BE GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE OF THE PROJECT SITE
  - THE CONTRACTOR SHALL BID THE FOLLOWING PLANT MATERIAL IN ADDITION TO THE QUANTITIES LISTED IN THE PLANT LEGEND OR SHOWN ON THE PLAN:
    - (10) 5 GAL SHRUBS
    - (30) 1 GAL SHRUBS
  - ALL WORK WILL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TECHNICAL SPECIFICATIONS FOR THE PROJECT.
  - CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES IN THE EXISTING CONDITIONS OR WITHIN THE PLANS PRIOR TO BEGINNING WORK.
  - IF ANY REQUIRED LANDSCAPE INDICATED ON THE APPROVED CONSTRUCTION DOCUMENT PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION, IT SHALL BE REPAIRED AND/OR REPLACED IN KIND AND EQUIVALENT SIZE PER THE APPROVED DOCUMENTS TO THE SATISFACTION OF THE OWNER WITHIN 30 DAYS OF DAMAGE. PLANT

- MATERIAL MAY BE REJECTED AT ANY TIME BY OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT DUE TO CONDITION, FORM OR DAMAGE BEFORE OR AFTER PLANTING.
- TREE ROOT BARRIERS SHALL BE INSTALLED WHERE TREES ARE PLACED WITHIN 5 FEET OF IMPROVEMENTS INCLUDING WALKS, CURBS, OR STREET PAVEMENTS OR WHERE NEW PUBLIC IMPROVEMENTS ARE PLACED ADJACENT TO EXISTING TREES. THE ROOT BARRIER WILL NOT WRAP AROUND THE ROOT BALL. ROOTBARRIER SHALL BE INSTALLED PARALLEL TO HARDSCAPE SURFACE FOR A DISTANCE OF 10' FROM THE CENTER LINE OF THE TREE TRUNK IN BOTH DIRECTIONS, OR AS INDICATED ON PLAN.
  - MINIMUM TREE SEPARATION DISTANCE:
    - TRAFFIC SIGNALS/STOP SIGNS - 20 FEET
    - UNDERGROUND UTILITY LINES - 5 FEET (10' FOR SEWER)
    - ABOVE GROUND UTILITY STRUCTURES - 10 FEET
    - DRIVEWAY (ENTRIES) - 10 FEET
    - INTERSECTIONS (INTERSECTING CURB LINES OF TWO STREETS) - 25 FEET
  - TREES SHALL BE MAINTAINED SO THAT ALL BRANCHES OVER PEDESTRIAN WALKWAYS ARE 6 FEET ABOVE THE WALKWAY GRADE AND BRANCHES OVER VEHICULAR TRAVEL WAYS ARE 16 FEET ABOVE GRADE OF THE TRAVEL WAY, PER CITY OF LEMON GROVE.
  - A MINIMUM ROOT ZONE OF 40 SF IN AREA SHALL BE PROVIDED FOR ALL TREES. THE MINIMUM DIMENSION FOR THE AREA SHALL BE 5 FEET, PER CITY OF LEMON GROVE.
  - FINAL LOCATION OF ALL TREES SHALL BE VERIFIED BY THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO EXCAVATION OF PLANTING PITS.
  - ALL PLANTERS SHALL RECEIVE IRRIGATION AND DRAINAGE.
  - THE LANDSCAPE ARCHITECT SHALL APPROVE ALL PLANTING AREAS PRIOR TO THE INSTALLATION OF ANY MATERIALS. THE LANDSCAPE CONTRACTOR SHALL LAYOUT ALL PLANT MATERIAL IN THE FIELD PER THE PLANTING PLANS FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT BEFORE EXCAVATING PITS. MAKING NECESSARY ADJUSTMENTS AS DIRECTED.
  - ALL LANDSCAPE AND IRRIGATION SHALL CONFORM TO THE STANDARDS OF THE CITY-WIDE LANDSCAPE REGULATIONS AND THE CITY OF LEMON GROVE LAND DEVELOPMENT MANUAL LANDSCAPE STANDARDS AND ALL OTHER LANDSCAPE RELATED CITY AND REGIONAL STANDARDS.
  - PERCOLATION TEST SHALL BE CONDUCTED, AND MUST COMPLY WITH "GREENBOOK" "CLASS A" TOPSOIL PERMEABILITY RATE REQUIREMENTS. NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY IF PLANTING PITS DO NOT PERCOLATE.
  - PLANTING TABLETS: TIGHTLY COMPRESSED CHIP-TYPE, LONG-LASTING, SLOW-RELEASE, COMMERCIAL-GRADE PLANTING FERTILIZER IN TABLET FORM. TABLETS SHALL BREAK DOWN WITH SOIL BACTERIA, CONVERTING NUTRIENTS INTO A FORM THAT CAN BE ABSORBED BY PLANT ROOTS.
    - SIZE: 10-GRAM TABLETS.
    - NUTRIENT COMPOSITION: 20 PERCENT NITROGEN, 10 PERCENT PHOSPHOROUS, AND 5% POTASSIUM, BY WEIGHT PLUS MICR NUTRIENTS.



**LEGEND:**

- 39" DEEP BIOBARRIER PER NOTES. EXTEND 10' FROM TRUNK OF TREE IN EACH DIRECTION ALONG FACE OF PAVING, CURB, WALL, ETC.
- CONCRETE PAVING PER PLAN (WHERE APPLICABLE)
- EXTEND TOP OF ROOT BARRIER 1/2" MINIMUM ABOVE FINISHED GRADE
- TREE PLANTING PER DETAILS
- CONCRETE CURB PER PLANS (WHERE APPLICABLE)

**NOTES:**

- CONTRACTOR SHALL INSTALL AND ASSEMBLE ROOT BARRIER PER MANUFACTURERS RECOMMENDATIONS

**1 BIOBARRIER**  
NO SCALE

SEE SHEET LP-1.0 & LP-1.01 FOR PLANTING LEGEND & NOTES  
SEE SHEET LP-1.1 & LP-1.2 FOR PLANTING PLANS  
SEE SHEET LP-1.0 FOR PLANTING DETAIL

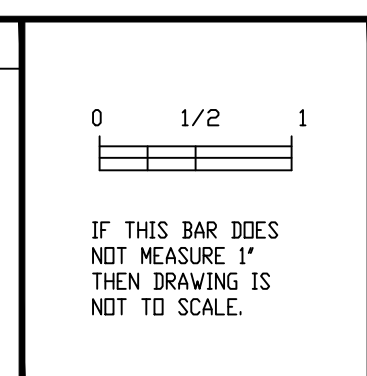
**SCHMIDT DESIGN GROUP**  
110 Rosemead St, Suite G, San Diego, CA 92106  
(619) 296-6622  
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CONNECT MAIN STREET PHASE 3			
LANDSCAPE PLANTING NOTES			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 34 OF 37 SHEETS		7/20/23	
FOR CITY ENGINEER*		DATE	
DESCRIPTION	BY	APPROVED	FILMED
ORIGINAL	SDG		
AS-BUILTS			
CONTRACTOR _____ DATE STARTED _____		1848-6321 NAD83 COORDINATES	
INSPECTOR _____ DATE COMPLETED _____		206-1755 & 210-1755 LAMBERT COORDINATES	
		LP-1.0	

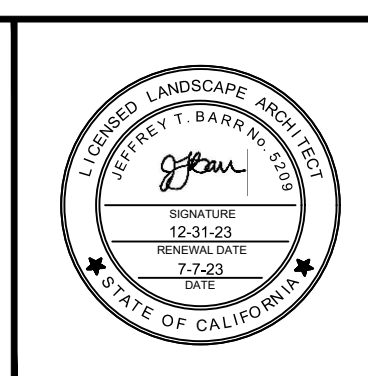
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BENCHMARK



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STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40



**PLANT SCHEDULE**

TREES	BOTANICAL NAME	COMMON NAME	CONT	DETAIL	WATER USE	SHRUBS	BOTANICAL NAME	COMMON NAME	CONT	DETAIL	WATER USE	
	CERCIS OCCIDENTALIS 20'-0" H X 20'-0" W	WESTERN REDBUD MULTI-TRUNK	15" BOX	RSD L-1	LOW		AGAVE SHAWII 3'-0" H X 2'-0" W	COASTAL AGAVE	1 GALLON	RSD L-2	LOW	
	EXISTING PALM	PROTECT IN PLACE	-				CERCOCARPUS BETULOIDES 8'-0" H X 8'-0" W	MOUNTAIN MAHOGANY	5 GALLON	RSD L-2	VERY LOW	
	EXISTING TREE	PROTECT IN PLACE	-				DENDROMECON RIGIDA 6'-0" H X 7'-0" W	BUSH POPPY	5 GALLON	RSD L-2	VERY LOW	
	PINUS TORREYANA 50'-0" H X 25'-0" W	TORREY PINE	15" BOX	RSD L-1	LOW		OPUNTIA ORICOLA 6'-0" H X 4'-0" W	CHAPARRAL PRICKLYPEAR	5 GALLON	RSD L-2	VERY LOW	
	PLATANUS RACEMOSA 60'-0" H X 40'-0" W	CALIFORNIA SYCAMORE	15" BOX	RSD L-1	MEDIUM		RHAMNUS CALIFORNICA 'EVE CASE' 8'-0" H X 6'-0" W	CALIFORNIA COFFEEBERRY	5 GALLON	RSD L-2	VERY LOW	
	QUERCUS AGRIFOLIA 50'-0" H X 50'-0" W	COAST LIVE OAK MULTI-TRUNK	15" BOX	RSD L-1	VERY LOW		YUCCA WHIPPLEI 3'-0" H X 6'-0" W	CHAPARRAL YUCCA	1 GALLON	RSD L-2	VERY LOW	
	WASHINGTONIA FILIFERA 60'-0" H X 20'-0" W	CALIFORNIA FAN PALM	15" BOX	RSD L-7	MEDIUM		ASTER CHILENSIS 'POINT ST. GEORGE' 2'-0" H X 5'-0" W	POINT ST. GEORGE PACIFIC ASTER	1 GALLON	36" o.c.	RSD L-2	LOW
							BACCHARIS PILULARIS 'PIGEON POINT' 2'-0" H X 6'-0" W	PIGEON POINT COYOTE BRUSH	1 GALLON	60" o.c.	RSD L-2	LOW
							CAREX PRAEGRACILIS 1'-6" H X 3'-0" W	CALIFORNIA FIELD SEDGE	1 GALLON	18" o.c.	RSD L-2	MEDIUM
							ERIGERON KARVINSKIANUS 2'-0" H X 5'-0" W	SANTA BARBARA DAISY	1 GALLON	30" o.c.	RSD L-2	LOW
							ERIOGONUM FASCICULATUM 'WARRINER LYTLE' 3'-0" H X 5'-0" W	WARRINER LYTLE BUCKWHEAT	1 GALLON	42" o.c.	RSD L-2	VERY LOW
							MUHLENBERGIA RIGENS 3'-0" H X 5'-0" W	DEER GRASS	1 GALLON	48" o.c.	RSD L-2	LOW
							SALVIA LEUCOPHYLLA 'POINT SAL' 3'-0" H X 6'-0" W	PURPLE LEAF SAGE	1 GALLON	48" o.c.	RSD L-2	VERY LOW
							SALVIA X 'BEE'S BLISS' 3'-0" H X 5'-0" W	BEE'S BLISS SAGE	5 GALLON	48" o.c.	RSD L-2	LOW
							VIGUIERA LACINIATA 3'-0" H X 5'-0" W	SAN DIEGO COUNTY VIGUIERA	1 GALLON	48" o.c.	RSD L-2	VERY LOW
							ZAUSCHNERIA CANA 'BERT'S BLUFF' 3'-0" H X 3'-0" W	BERT'S BLUFF CALIFORNIA FUCHSIA	1 GALLON	36" o.c.	RSD L-2	VERY LOW
							CREEKSIDE PLANTS CAREX PRAEGRACILIS 1'-6" H X 3'-0" W IVA HAYESIANA 3'-0" H X 4'-0" W PLUCHEA ODORATA 4'-0" H X 3'-0" W	CALIFORNIA FIELD SEDGE SAN DIEGO POVERTY WEED SALTMARSH FLEABANE	1 GALLON 1 GALLON 1 GALLON	40% @ 18" oc 30% @ 36" oc 30% @ 24" oc	RSD L-2 RSD L-2 RSD L-2	MEDIUM VERY LOW MEDIUM

1 - - - - 39" DEEP BIO BARRIER. AVAILABLE AT TYPAR GEOSYNTHETICS. PHONE: (612) 704-1222

1/LP-1.0

THE LANDSCAPE DESIGN IS IN FULL COMPLIANCE WITH THE STATE MWELD PER LGMC SECTION 18.44.070 (B)(6)(B), CERTIFIED BY JT BARR

*JT BARR*

SEE SHEET LP-1.0 & LP-1.01 FOR PLANTING LEGEND & NOTES  
SEE SHEET LP-1.1 & LP-1.2 FOR PLANTING PLANS  
SEE SHEET LP-1.0 FOR PLANTING DETAIL

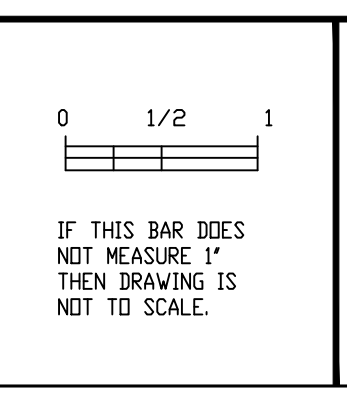
**SCHMIDT DESIGN GROUP**  
110 Rosemead St., Suite G, San Diego, CA 92106  
619.236.5622  
LIC. CA 7138 (REV. 3/91) A2 34339  
SCHMIDTDESIGN.COM

**811** Know what's below. Call before you dig.  
SECTION 4216/4217 OF THE STATE OF CA GOV CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. CALL AT LEAST TWO DAYS BEFORE YOU DIG.

CONNECT MAIN STREET PHASE 3			
LANDSCAPE PLANTING LEGEND			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 35 OF 37 SHEETS		DATE: 7/20/23	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	SDG		
AS-BUILTS		DATE STARTED	
CONTRACTOR		DATE COMPLETED	
INSPECTOR		DATE COMPLETED	
		1848-6321 NAD83 COORDINATES	
		206-1755 & 210-1755 LAMBERT COORDINATES	
		LP-1.01	

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK



**CHEN RYAN ASSOCIATES**  
3900 Fifth Avenue, Ste 310 • San Diego, CA 92103 | 619.795.6086

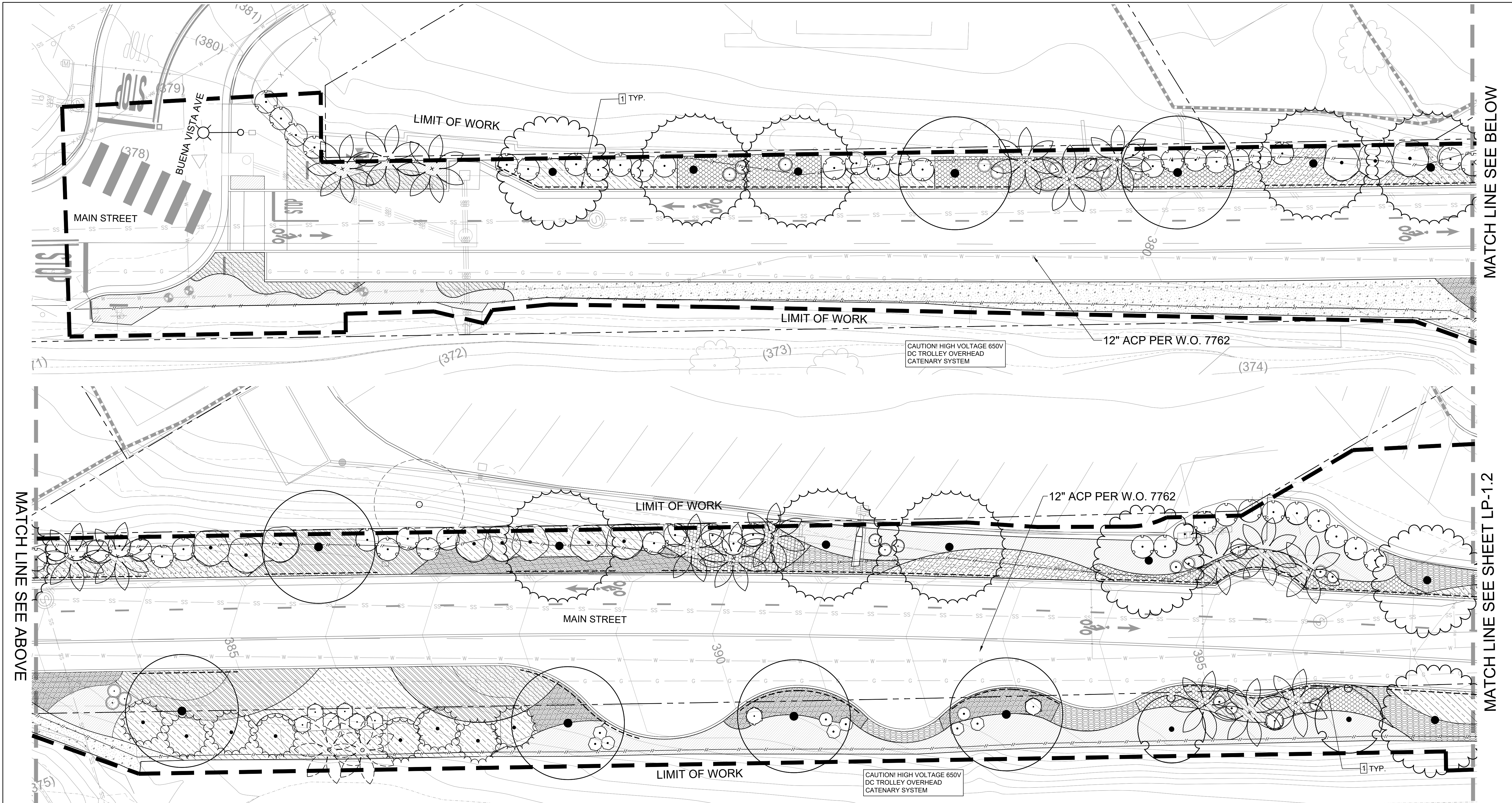
CAUTION!  
LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.



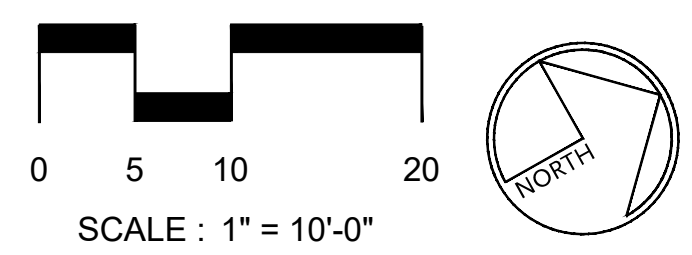
STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

FINAL CONSTRUCTION DRAWINGS





NOTE: STANDBY REQUIRED WHEN EXCAVATING WITHIN 10 FEET OF 16" HP GAS MAIN. HAND DIG ONLY.



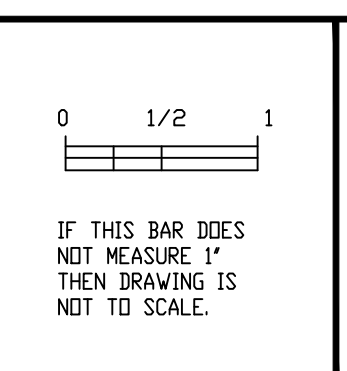
SEE SHEET LP-1.0 & LP-1.01 FOR PLANTING LEGEND & NOTES  
 SEE SHEET LP-1.1 & LP-1.2 FOR PLANTING PLANS  
 SEE SHEET LP-1.0 FOR PLANTING DETAIL

**SCHMIDT DESIGN GROUP**  
 110 Rosemead St., Suite G, San Diego, CA 92106  
 619.236.5622  
 LIC. CA 7138 (REV. 3/91) AZ 34339  
 SDG PROJECT #: 20-107  
 PLT DATE: 6/20/2023  
 DRAWN BY: TS, CH, BP  
 CHECKED BY: JJ

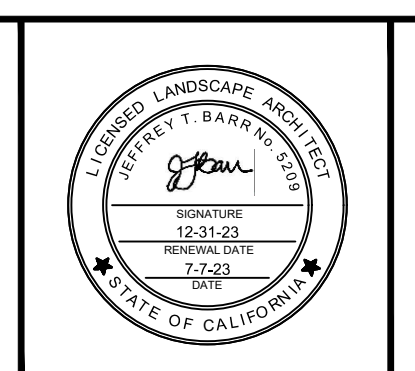
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CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK	
DESCRIPTION	COORDINATES



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 3900 Fifth Avenue, Ste 310 • San Diego, CA 92103 | 619.795.6086  
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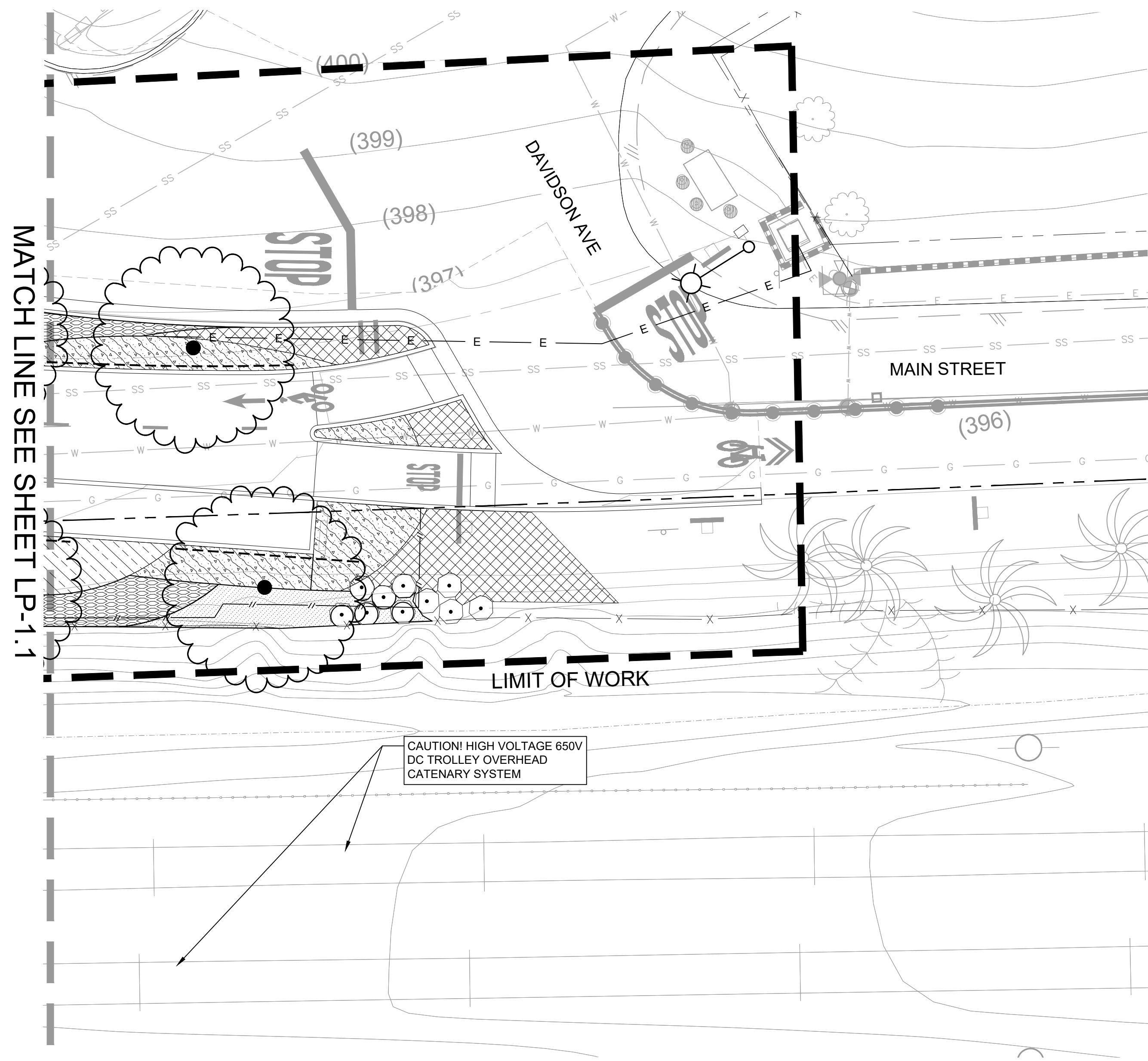


STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

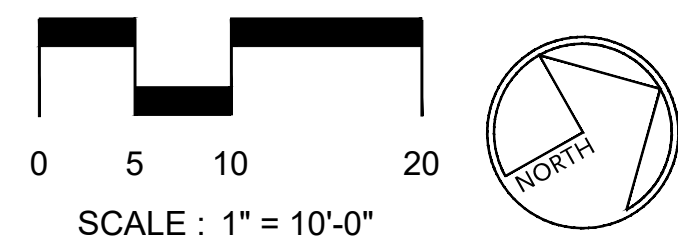
CONNECT MAIN STREET PHASE 3				
LANDSCAPE PLANTING PLAN				
CITY OF LEMON GROVE, CALIFORNIA		DEVELOPMENT SERVICES DEPARTMENT		
SHEET 36 OF 37 SHEETS				
DESCRIPTION	BY	APPROVED	DATE	FILMED
FOR CITY ENGINEER*			7/20/23	
ORIGINAL	SDG			
AS-BUILTS				
CONTRACTOR			DATE STARTED	
INSPECTOR			DATE COMPLETED	
				1848-6321 NAD83 COORDINATES
				206-1755 & 210-1755 LAMBERT COORDINATES
				LP-1.1

FINAL CONSTRUCTION DRAWINGS





NOTE: STANDBY REQUIRED WHEN EXCAVATING WITHIN 10 FEET OF 16" HP GAS MAIN. HAND DIG ONLY.



SEE SHEET LP-1.0 & LP-1.01 FOR PLANTING LEGEND & NOTES  
 SEE SHEET LP-1.1 & LP-1.2 FOR PLANTING PLANS  
 SEE SHEET LP-1.0 FOR PLANTING DETAIL

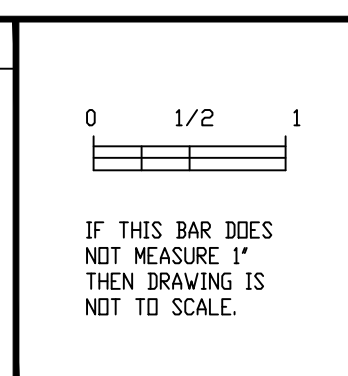


SECTION 4216/4217 OF THE STATE OF CA GOV CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. CALL AT LEAST TWO DAYS BEFORE YOU DIG.

CONNECT MAIN STREET PHASE 3			
LANDSCAPE PLANTING PLAN			
CITY OF LEMON GROVE, CALIFORNIA		DEVELOPMENT SERVICES DEPARTMENT	
SHEET 37 OF 37 SHEETS			
FOR CITY ENGINEER*	DATE	7/20/23	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	SDG		
AS-BUILTS			
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		1848-6321 NAD83 COORDINATES	
		206-1755 & 210-1755 LAMBERT COORDINATES	
		LP-1.2	

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

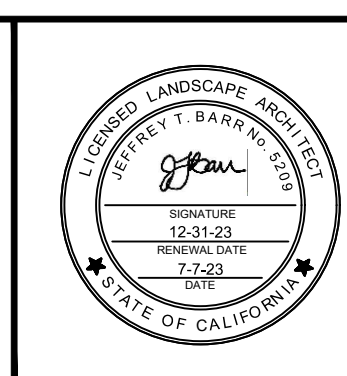
BENCHMARK



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 ASSOCIATES

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