

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.	DESC
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

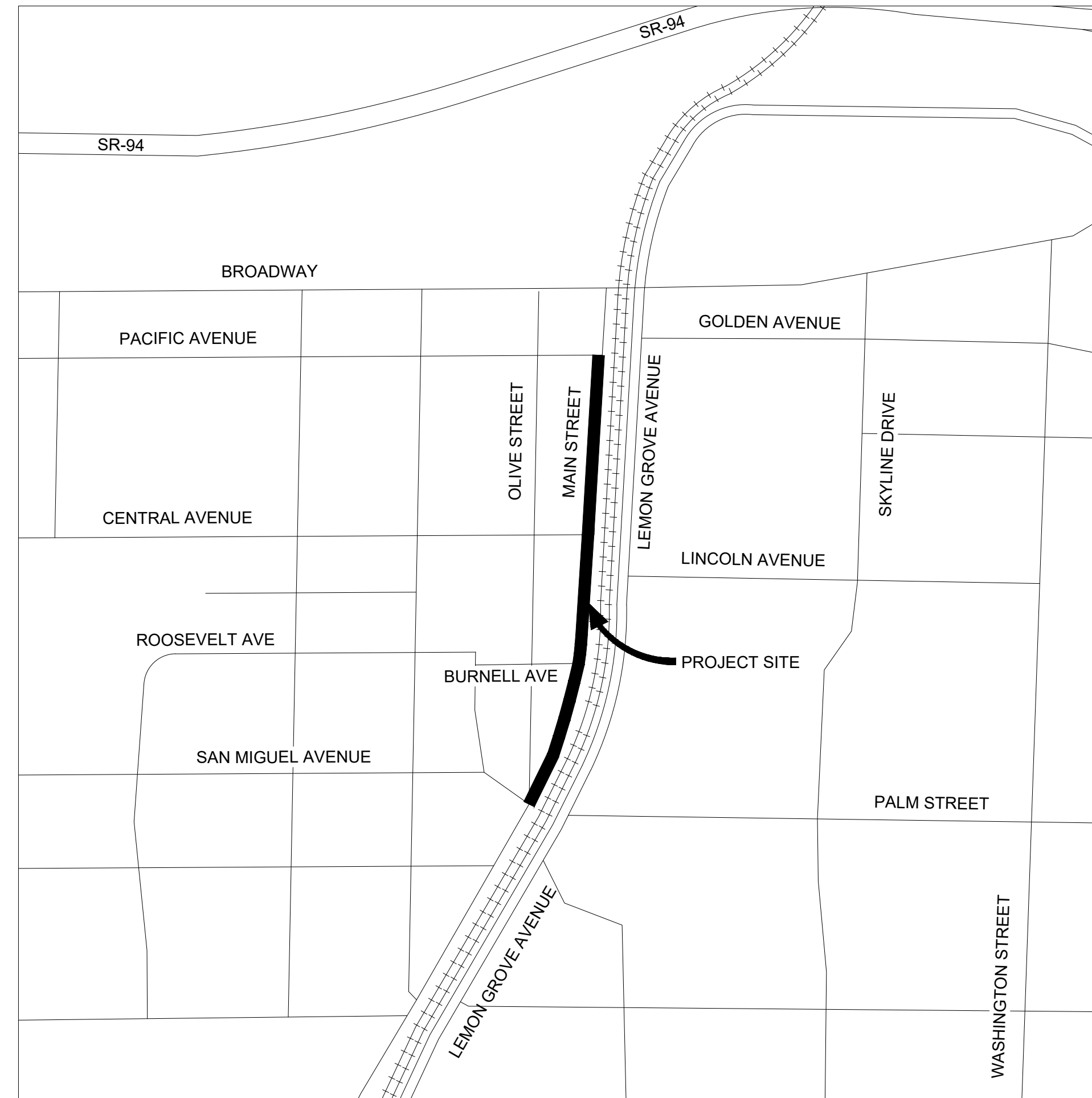
ABBREVIATIONS

A	A-VALUE, AREA	MTS	METROPOLITAN TRANSIT SYSTEM
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	CENTERLINE	PVC	POLYVINYL CHLORIDE
CONC	CONCRETE	PVI	POINT OF VERTICAL INTERSECTION
D.G.	DECOMPOSED GRANITE	R	RADIUS
E	EAST	R/W	RIGHT OF WAY
ECR	END CURB RETURN	RCP	REINFORCED CONCRETE PIPE
EL	ELEVATION	RR	RAIL ROAD
ELEC	ELECTRICAL	SD	STORM DRAIN
EP	EDGE OF PAVEMENT	SDRSD	SAN DIEGO REGIONAL STANDARD DRAWINGS
EVC	END OF VERTICAL CURVE	SS	SANITARY SEWER
EX	EXISTING	SSMH	SANITARY SEWER MANHOLE
FG	FINISHED GRADE	STA	STATION
FH	FIRE HYDRANT	STRC	STRUCTURE
FL	FLOWLINE	SWLK	SIDEWALK
FS	FINISHED SURFACE	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
GAS	GAS	T	TANGENT LENGTH
HMA	HOT MIX ASPHALT	TC	TOP OF CURB
HORIZ	HORIZONTAL	TEL	TELEPHONE
INV	INVERT	TS	TRAFFIC SIGNAL
IRR	IRRIGATION	TYP	TYPICAL
K	K-VALUE	VC	VERTICAL CURVE
L	LENGTH	W	WEST
LAND	LANDSCAPING	W.O.	WORK ORDER
LP	LOW POINT	WDID	WASTE DISCHARGE IDENTIFICATION
ME	MATCH EXISTING	WM	WATER METER
MH	MANHOLE	WTR	WATER
MON	MONUMENT	WV	WATER VALVE

IMPROVEMENT PLANS FOR:

CONNECT MAIN STREET PHASES 1 & 2

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 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	---x---x---x---
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	--- --- --- ---
EXISTING SEWER MAIN AND SSMH	---SS---
EXISTING STORM DRAIN	---SD---
PROPOSED STORM DRAIN	---SD---
EXISTING FIRE HYDRANT	---W---
PROPOSED 2" IRRIGATION SERVICE BY HWD, BACKFLOW PREVENTOR BY CONTRACTOR	---W---(B)
EXISTING CATENARY POLE	---o---
EXISTING SURVEY MONUMENT	---△---
EXISTING UTILITY POLE AND ANCHOR	---●--- ---
EXISTING SIGN	--- ---
EXISTING TRAFFIC SIGNAL POLE	--- ---

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

SHEET	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES
3-4	KEY MAP
5	TYPICAL SECTIONS
6-7	HORIZONTAL CONTROL PLANS
8-10	DEMOLITION PLANS
11-18	IMPROVEMENT PLANS AND INTERSECTION DETAILS
19	CONSTRUCTION DETAILS
20	STORM DRAIN & BMP PLANS
21	STORM DRAIN & BMP DETAILS
22-23	SIGNING & PAVEMENT MARKING PLANS
24	TEMPORARY WATER POLLUTION CONTROL PLANS
25	TEMPORARY WATER POLLUTION CONTROL DETAILS
26	TRAFFIC SIGNAL MODIFICATION PLAN
27	LIGHTING AND ELECTRICAL PLANS
28	LANDSCAPE CONSTRUCTION LEGEND & NOTES
29-31	LANDSCAPE CONSTRUCTION PLAN
32	LANDSCAPE CONSTRUCTION DETAILS
33	LANDSCAPE IRRIGATION LEGEND & NOTES
34-36	LANDSCAPE IRRIGATION PLAN
37-39	LANDSCAPE IRRIGATION DETAILS
40	LANDSCAPE PLANTING NOTES
41	LANDSCAPE PLANTING LEGEND
42-44	LANDSCAPE PLANTING PLAN

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 PHASES 1 & 2

TITLE SHEET

CITY OF LEMON GROVE, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 1 OF 44 SHEETS

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

R23-01-01

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.

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.

REGISTERED PROFESSIONAL ENGINEER

SCOTT CARTWRIGHT

C77512

CIVIL

STATE OF CALIFORNIA

LEMON GROVE

BEST CITIES IN THE WEST

CITY OF LEMON GROVE

STREET DATA TABLE

STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50

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

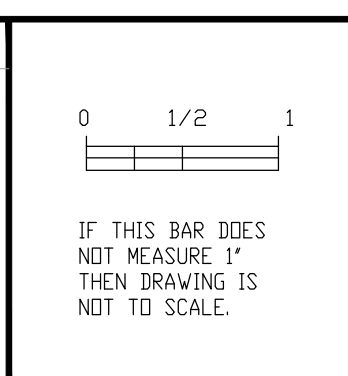
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT HELIX WATER DISTRICT 48 HOURS PRIOR TO COMMENCING WORK AT (619) 596-3860 AND UNDERGROUND SERVICE ALERT FOR LOCATION OF EXISTING WATER FACILITIES AT 1-800-422-4133.
- CONTRACTOR TO PROTECT ALL EXISTING HELIX WATER DISTRICT FACILITIES AND SHALL BE 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 CROSS 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 IRRIGATION SERVICE APPROXIMATELY EIGHT (8) WEEKS UPON RECEIPT OF THE DEPOSIT. 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&V 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&V. SDTI TROLLEY OPERATIONS ARE GENERALLY FROM THE HOURS OF 4:00 A.M. TO 2:00 A.M. THE FOLLOWING DAY. SD&V 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		
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, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50

GENERAL NOTES FOR:
CONNECT MAIN STREET PHASES 1 & 2

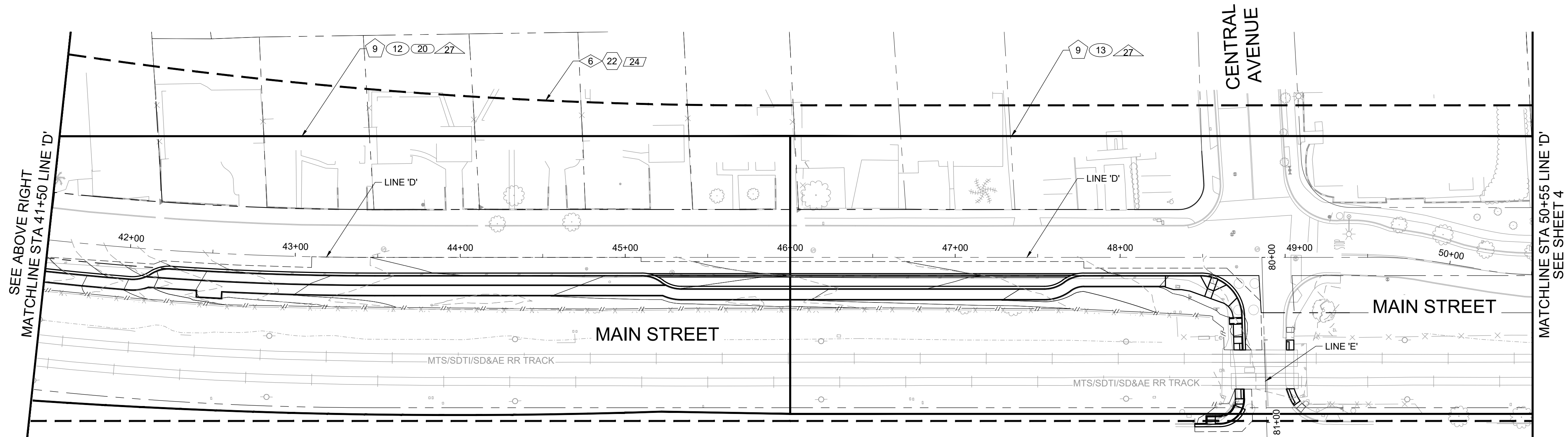
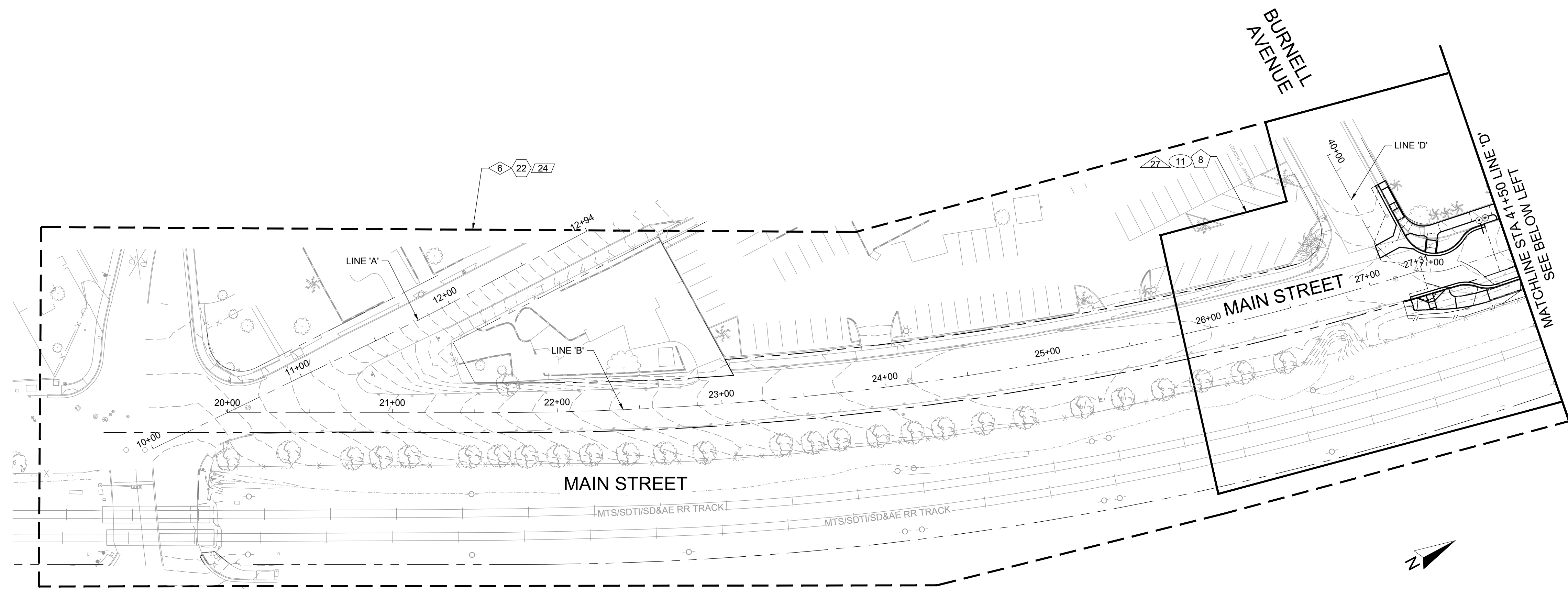
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 2 OF 44 SHEETS		DATE: 7/20/23	TM/TPM: _____
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	CRA		
AS-BUILTS			
CONTRACTOR	DATE STARTED		
INSPECTOR	DATE COMPLETED		

1848-6321
NAD83 COORDINATES

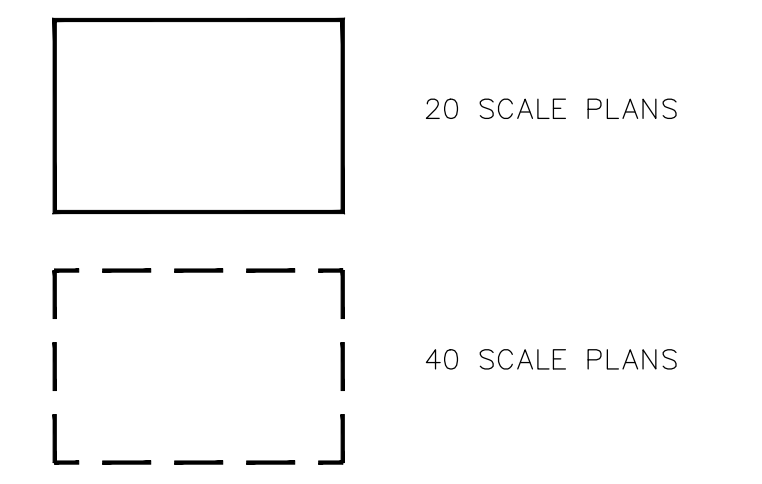
206-1755 & 210-1755
LAMBERT COORDINATES

R23-01-02

FINAL CONSTRUCTION DRAWINGS

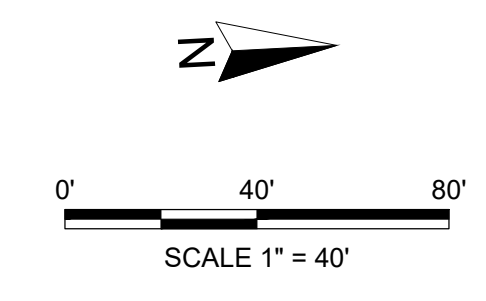


LEGEND



SHEET TYPE

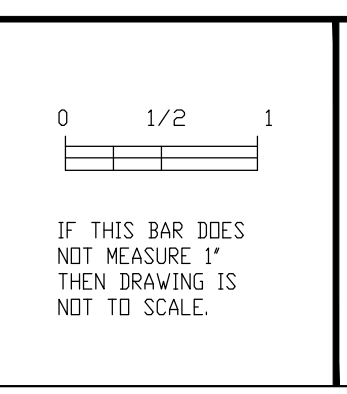
- HORIZONTAL CONTROL PLANS
- DEMOLITION PLANS
- IMPROVEMENT PLANS
- STORM DRAIN & BMP PLANS
- SIGNING AND PAVEMENT MARKING PLANS
- TEMPORARY WATER POLLUTION CONTROL PLANS
- LIGHTING AND ELECTRICAL PLANS



KEY MAP FOR:			
CONNECT MAIN STREET PHASES 1 & 2			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 3 OF 44 SHEETS			
FOR CITY ENGINEER*	7/20/23	DATE	TM/TPM
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	CRA		
AS-BUILTS			
CONTRACTOR _____ DATE STARTED _____			
INSPECTOR _____ DATE COMPLETED _____			
			R23-01-03

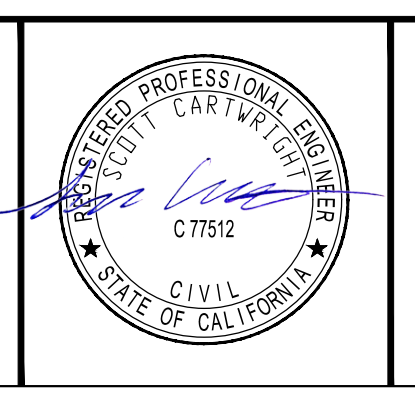
CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

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



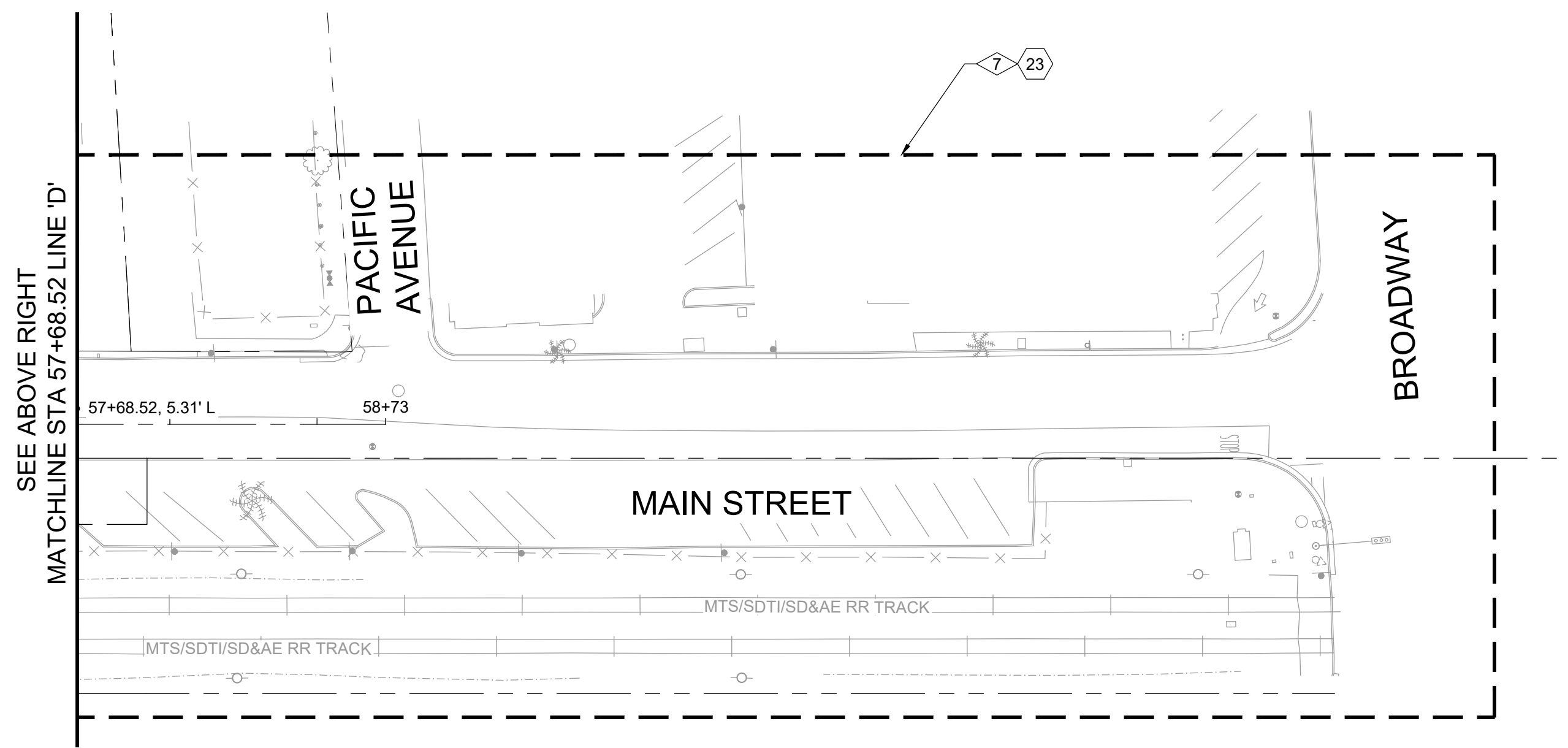
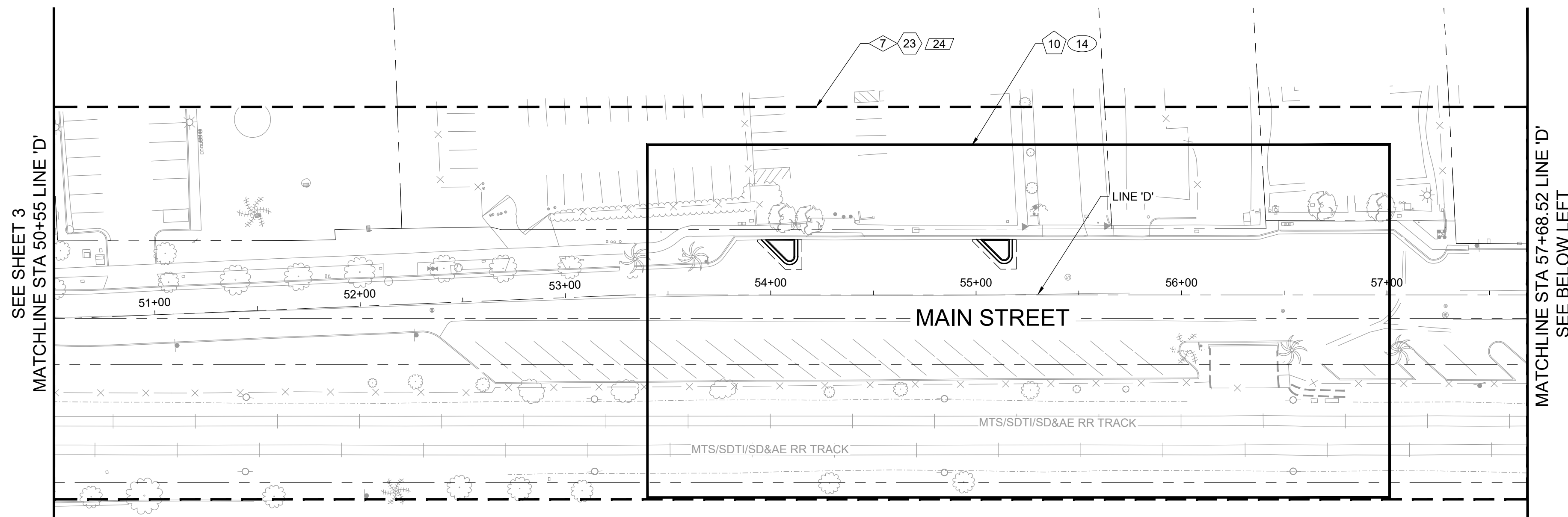
3900 Fifth Avenue, Suite 310 • San Diego, CA 92103 • 619.795.6086

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

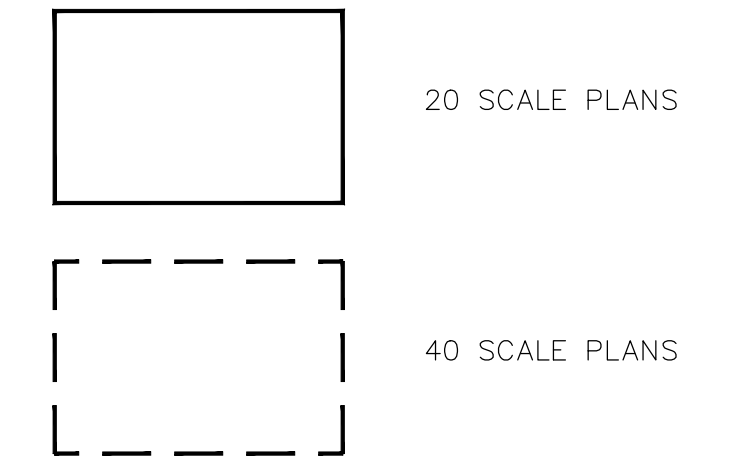


STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50

FINAL CONSTRUCTION DRAWINGS

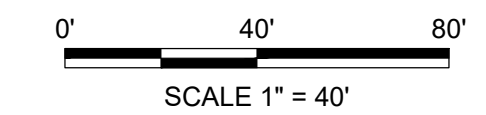


LEGEND



SHEET TYPE

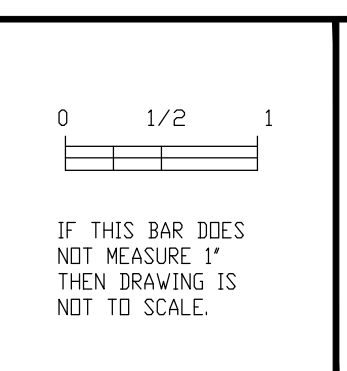
- HORIZONTAL CONTROL PLANS
- DEMOLITION PLANS
- IMPROVEMENT PLANS
- SIGNING AND PAVEMENT MARKING PLANS
- TEMPORARY WATER POLLUTION CONTROL PLANS



KEY MAP FOR:			
CONNECT MAIN STREET PHASES 1 & 2			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 4 OF 44 SHEETS		DATE: 7/20/23	
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	CRA		
AS-BUILTS			
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		1848-6321 NAD83 COORDINATES	
		206-1755 & 210-1755 LAMBERT COORDINATES	
		R23-01-04	

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK





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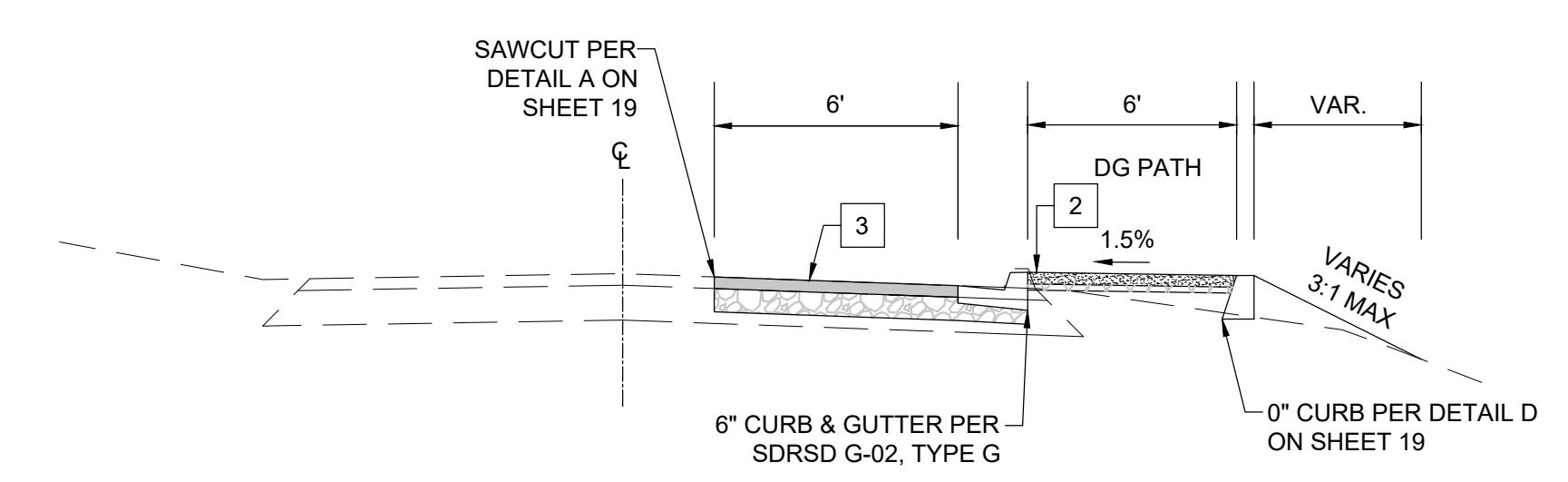
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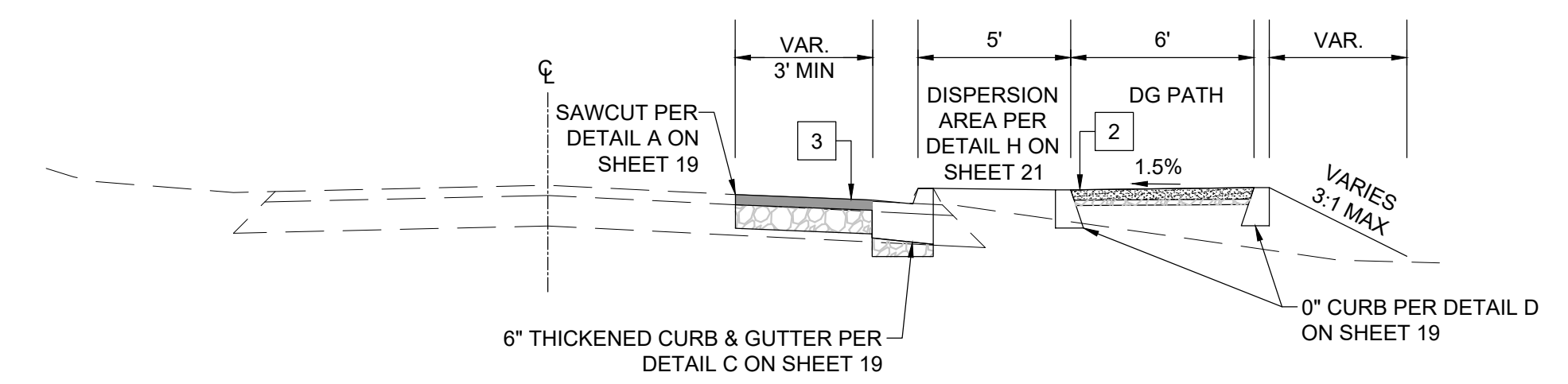
STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50

LEGEND

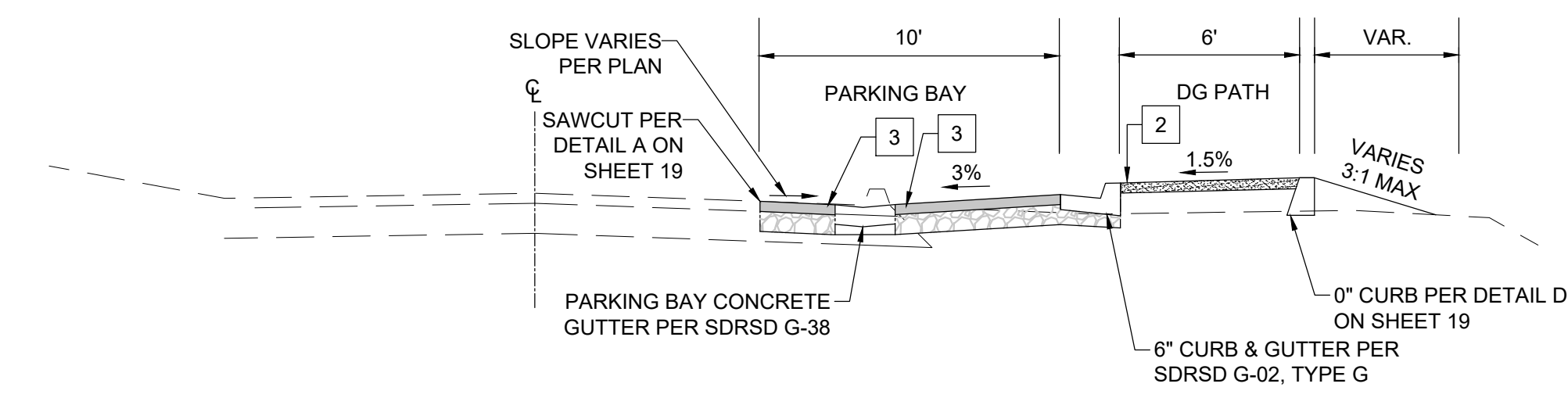
- 2 4" DECOMPOSED GRANITE
2" CLASS 2 AGGREGATE BASE PER LANDSCAPE PLANS
- 3 4" HMA
6" CLASS 2 AGGREGATE BASE



**TYPICAL SECTION 1
LINE 'D'
STA 41+35 TO 42+00**



**TYPICAL SECTION 2
LINE 'D'
STA 42+25 TO 45+10**



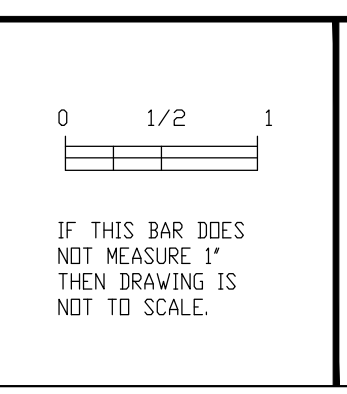
**TYPICAL SECTION 3
LINE 'D'
STA 45+34 TO 47+54**

**TYPICAL SECTIONS FOR:
CONNECT MAIN STREET
PHASES 1 & 2**

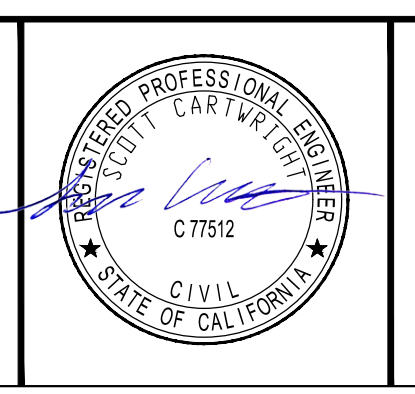
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 5 OF 44 SHEETS				
FOR CITY ENGINEER*		DATE	7/20/23	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	CRA			
AS-BUILTS				
CONTRACTOR		DATE STARTED		
INSPECTOR		DATE COMPLETED		
				1848-6321 NAD83 COORDINATES
				206-1755 & 210-1755 LAMBERT COORDINATES
				R23-01-05

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK

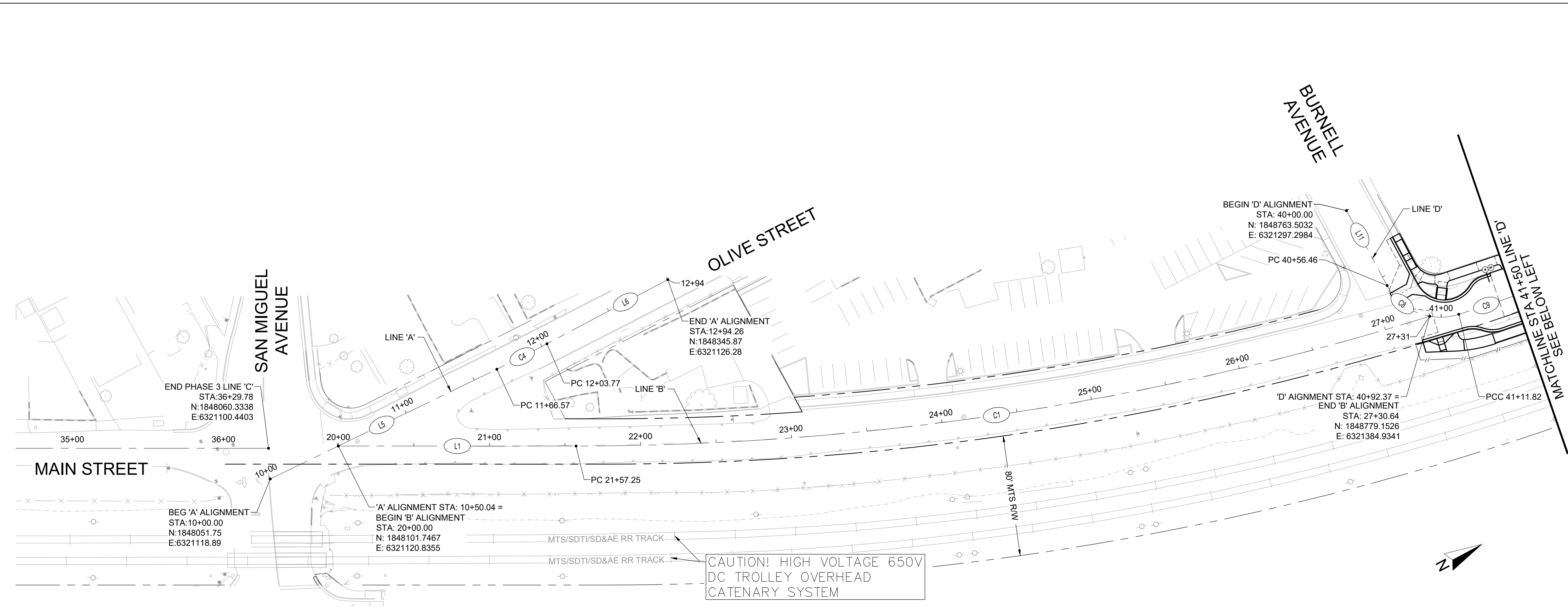


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STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50

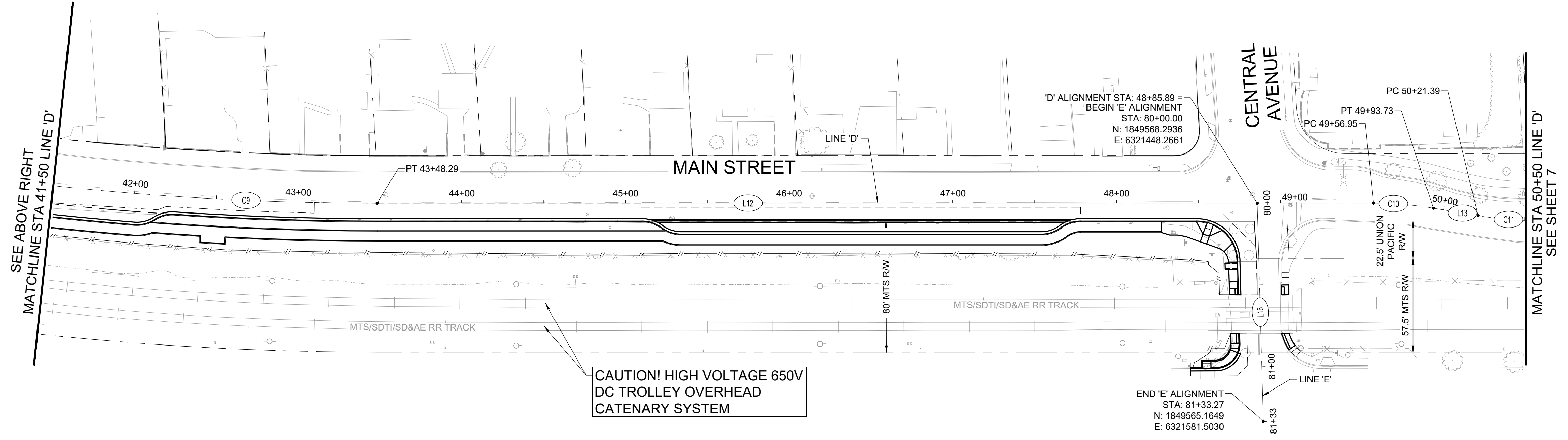
FINAL CONSTRUCTION DRAWINGS



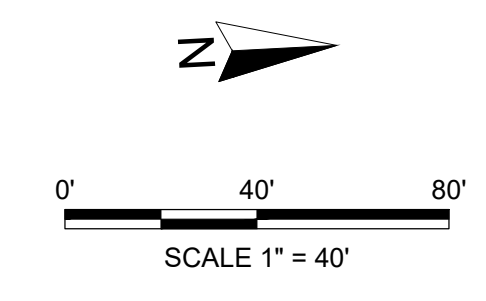
'A' ALIGNMENT - GEOMETRIC DATA					
	LENGTH	LINE/CHORD DIRECTION	R	T	DELTA
L5	166.57'	N02°13'43"E			
C4	37.20'	N01°09'46"E	1000.00'	18.60'	2°07'53"
L6	90.49'	N00°05'49"E			

'B' ALIGNMENT - GEOMETRIC DATA					
	LENGTH	LINE/CHORD DIRECTION	R	T	DELTA
L1	157.25'	N28°04'54"E			
C1	573.39'	N19°26'10"E	1900.00'	288.89'	17°17'28"

'D' ALIGNMENT - GEOMETRIC DATA					
	LENGTH	LINE/CHORD DIRECTION	R	T	DELTA
L11	56.46'	N89°37'00"E			
C8	55.36'	N49°58'02"E	40.00'	33.15'	79°17'56"
C9	236.47'	N06°39'13"E	1848.91'	118.40'	7°19'41"
L12	608.66'	N02°59'23"E			
C10	36.79'	N07°46'47"E	220.00'	18.44'	9°34'49"
L13	27.65'	N12°34'12"E			
C11	45.99'	N06°34'51"E	220.00'	23.08'	11°58'42"



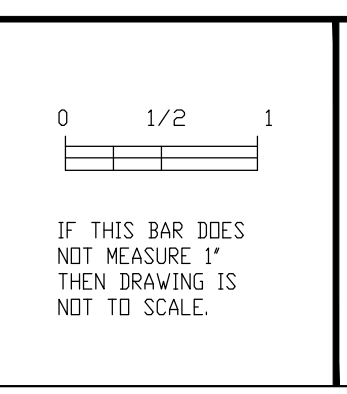
'E' ALIGNMENT - GEOMETRIC DATA					
	LENGTH	LINE/CHORD DIRECTION	R	T	DELTA
L16	133.27'	S88°39'17"E			



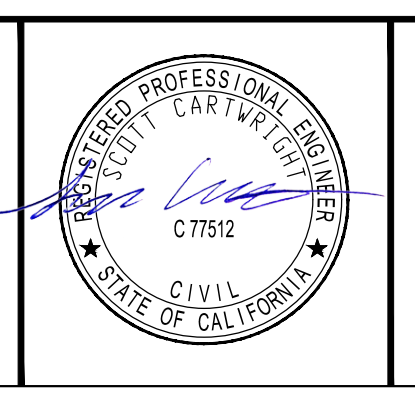
HORIZONTAL CONTROL PLANS FOR:					
CONNECT MAIN STREET PHASES 1 & 2					
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 6 OF 44 SHEETS					
FOR CITY ENGINEER*				DATE	TM/TPM
DESCRIPTION				APPROVED	FILMED
ORIGINAL	CRA				
AS-BUILTS					
CONTRACTOR _____ DATE STARTED _____					
INSPECTOR _____ DATE COMPLETED _____					
					R23-01-06

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK	



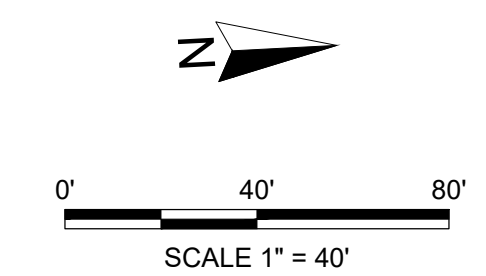
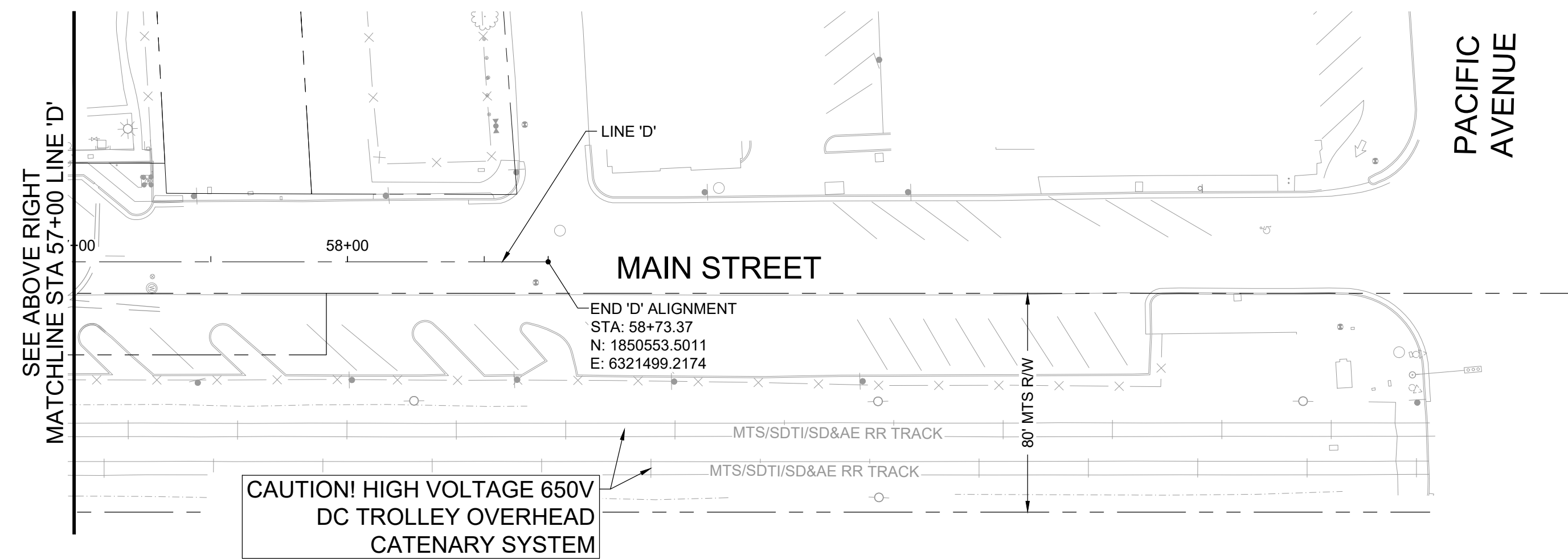
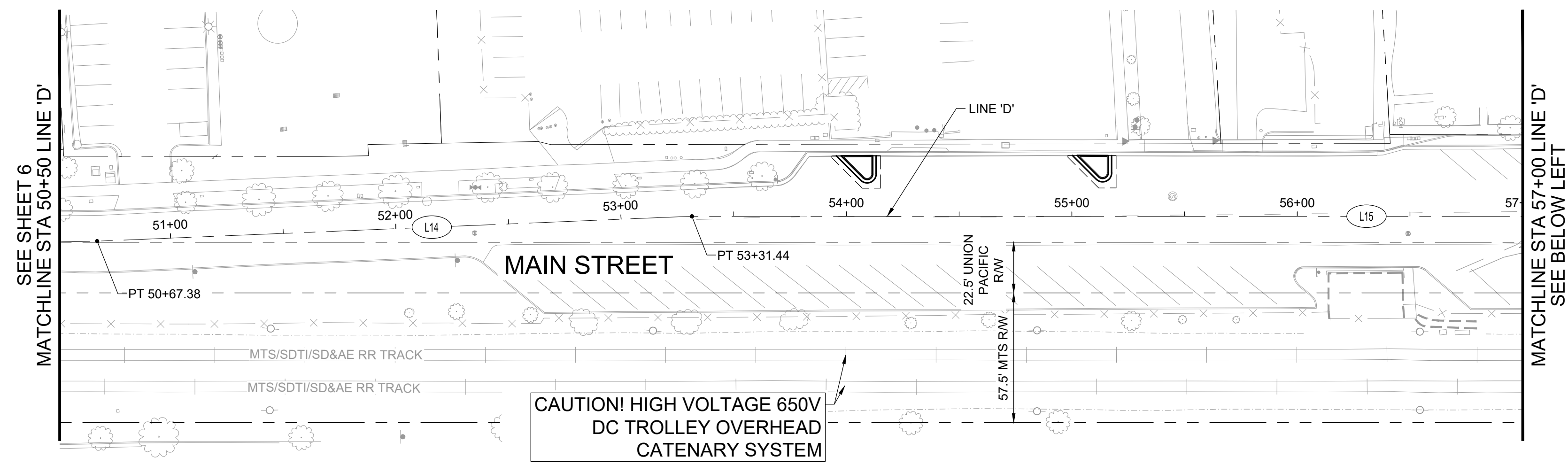
CAUTION!
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STREET DATA TABLE					
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)	
MAIN STREET, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40	
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50	

FINAL CONSTRUCTION DRAWINGS

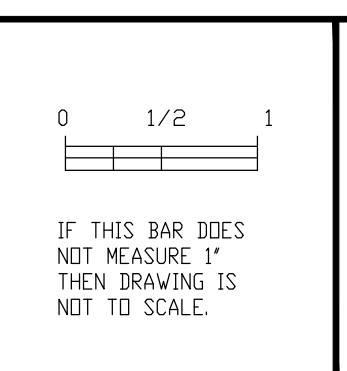
'D' ALIGNMENT - GEOMETRIC DATA					
	LENGTH	LINE/CHORD DIRECTION	R	T	DELTA
L14	264.06'	N00°35'30"E			
L15	541.93'	N02°59'23"E			



HORIZONTAL CONTROL PLANS FOR: CONNECT MAIN STREET PHASES 1 & 2					
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 7 OF 44 SHEETS					
FOR CITY ENGINEER* <u>S. J. [Signature]</u> DATE <u>7/20/23</u>					TM/TPM
DESCRIPTION	BY	APPROVED	DATE	FILMED	
ORIGINAL	CRA				1848-6321 NAD83 COORDINATES
AS-BUILTS					206-1755 & 210-1755 LAMBERT COORDINATES
CONTRACTOR _____ DATE STARTED _____					R23-01-07
INSPECTOR _____ DATE COMPLETED _____					

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, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50

FINAL CONSTRUCTION DRAWINGS

LEGEND

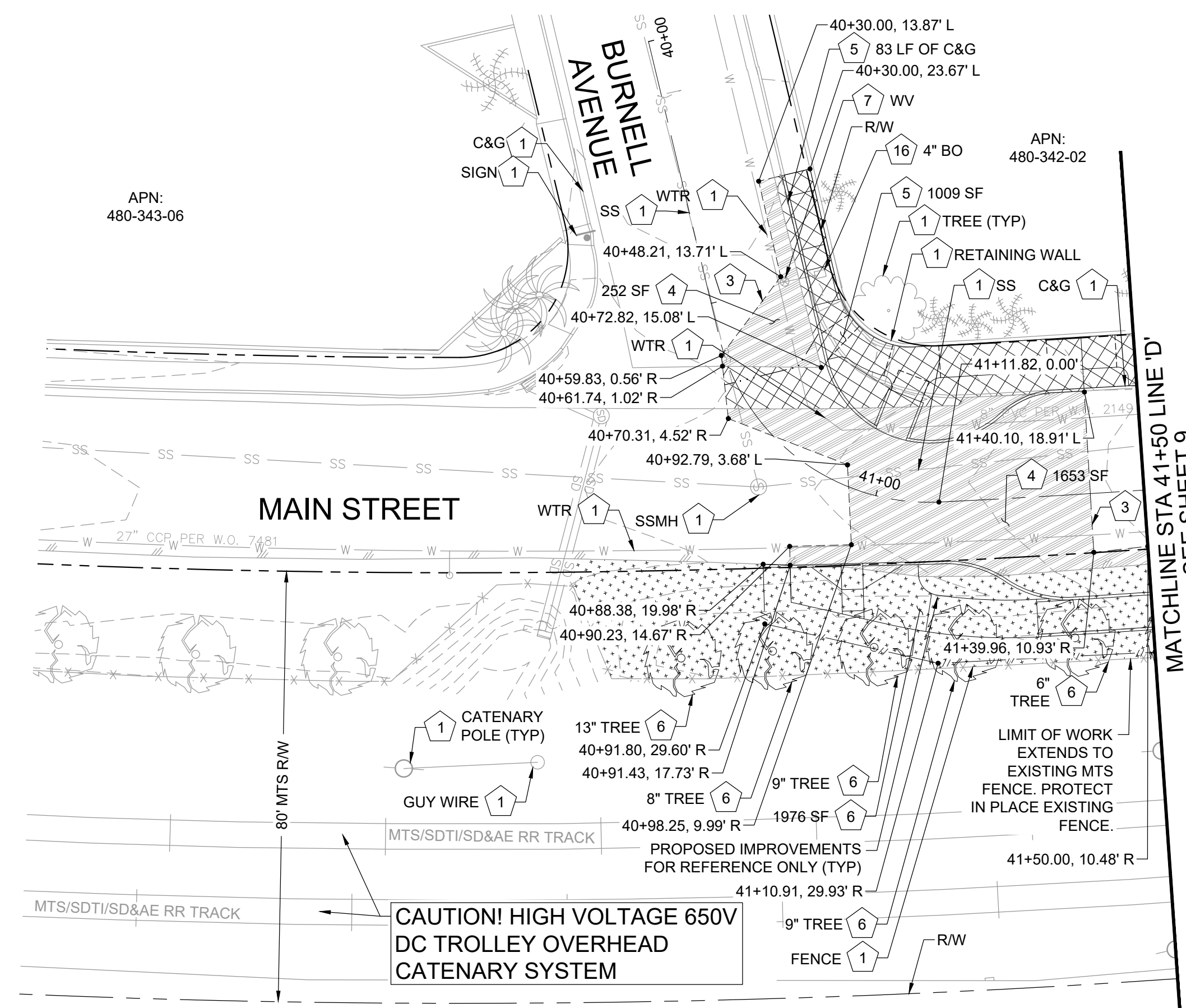
- PROPERTY LINE
- SAWCUT LINE
- DAYLIGHT LINE
- EXISTING FENCE LINE
- EXISTING EDGE OF PAVEMENT
- TREE TO BE PROTECTED IN PLACE
- TREE TO BE REMOVED AND DISPOSED

DEMOLITION NOTES

- PROTECT IN PLACE
- SAWCUT PER DETAIL A ON SHEET 19
- REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT AND AGGREGATE BASE
- REMOVE AND DISPOSE OF EXISTING CONCRETE SIDEWALK, CURB, MEDIAN CURB, GUTTER, AND AGGREGATE BASE
- REMOVE EXISTING VEGETATION, DEBRIS, AND OTHER MATERIAL IN CONFLICT WITH THE PROPOSED IMPROVEMENTS
- ADJUST TO FINISHED GRADE, BY OTHERS
- RELOCATE, BY OTHERS

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. CONTRACTOR SHALL VERIFY THE EXISTENCE AND HORIZONTAL/VERTICAL LOCATION OF ALL UTILITIES WITHIN THE PROJECT AREA THAT MAY CONFLICT WITH THE PROPOSED CONSTRUCTION. CONTRACTOR SHALL VERIFY THAT ANY UTILITIES SHOWN TO BE RELOCATED BY OTHERS HAVE BEEN RELOCATED AND ARE NO LONGER IN CONFLICT. CONTRACTOR SHALL 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.



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.

DEMOLITION PLANS FOR:

CONNECT MAIN STREET PHASES 1 & 2

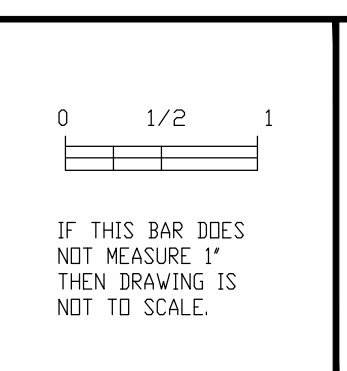
STA 20+00 TO STA 41+50

CITY OF LEMON GROVE, CALIFORNIA		DATE: 7/20/23		TM/TPM
DEVELOPMENT SERVICES DEPARTMENT		DATE: _____		_____
SHEET 8 OF 44 SHEETS		DATE: _____		_____
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	CRA			
AS-BUILTS				
CONTRACTOR _____		DATE STARTED _____		1948-6321
INSPECTOR _____		DATE COMPLETED _____		NAD83 COORDINATES
				206-1755 & 210-1755
				LAMBERT COORDINATES
				R23-01-08

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK



COR

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STREET DATA TABLE

STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50

LEGEND

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

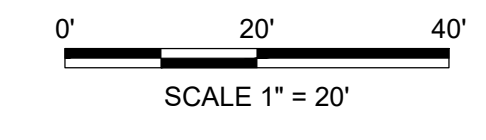
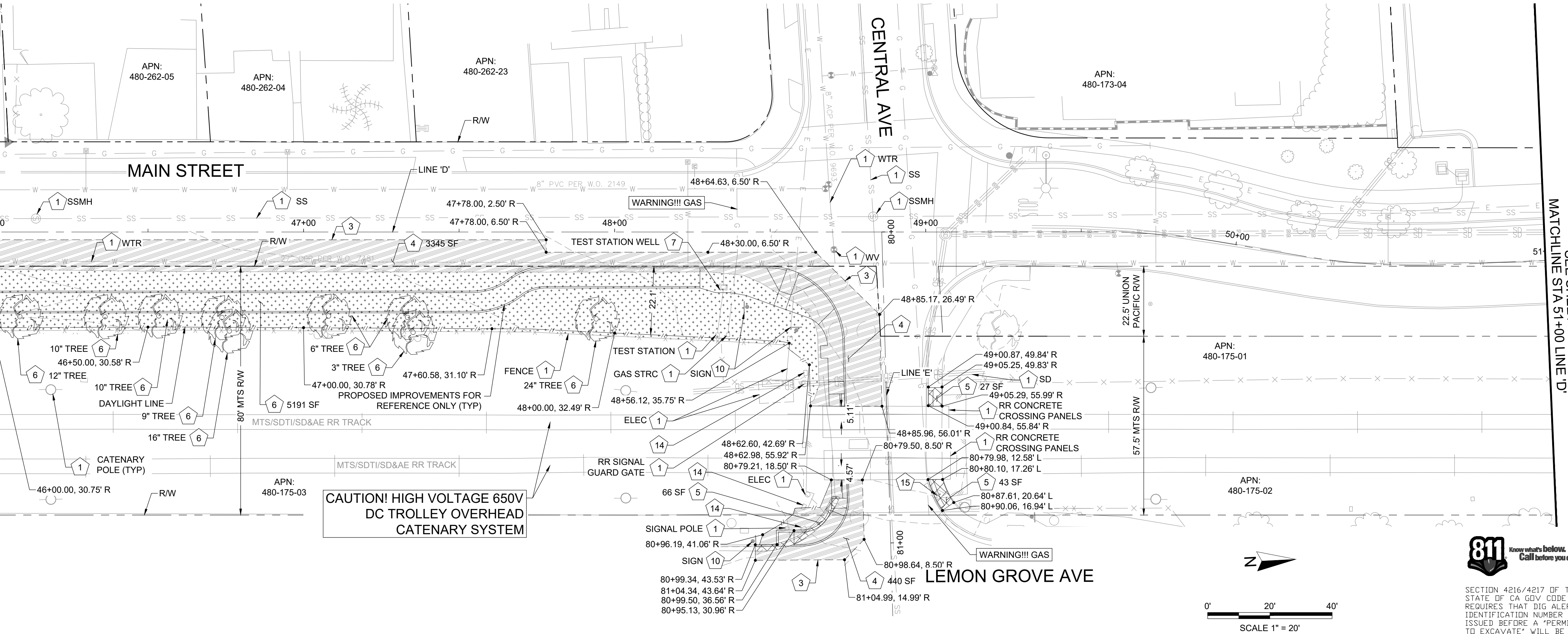
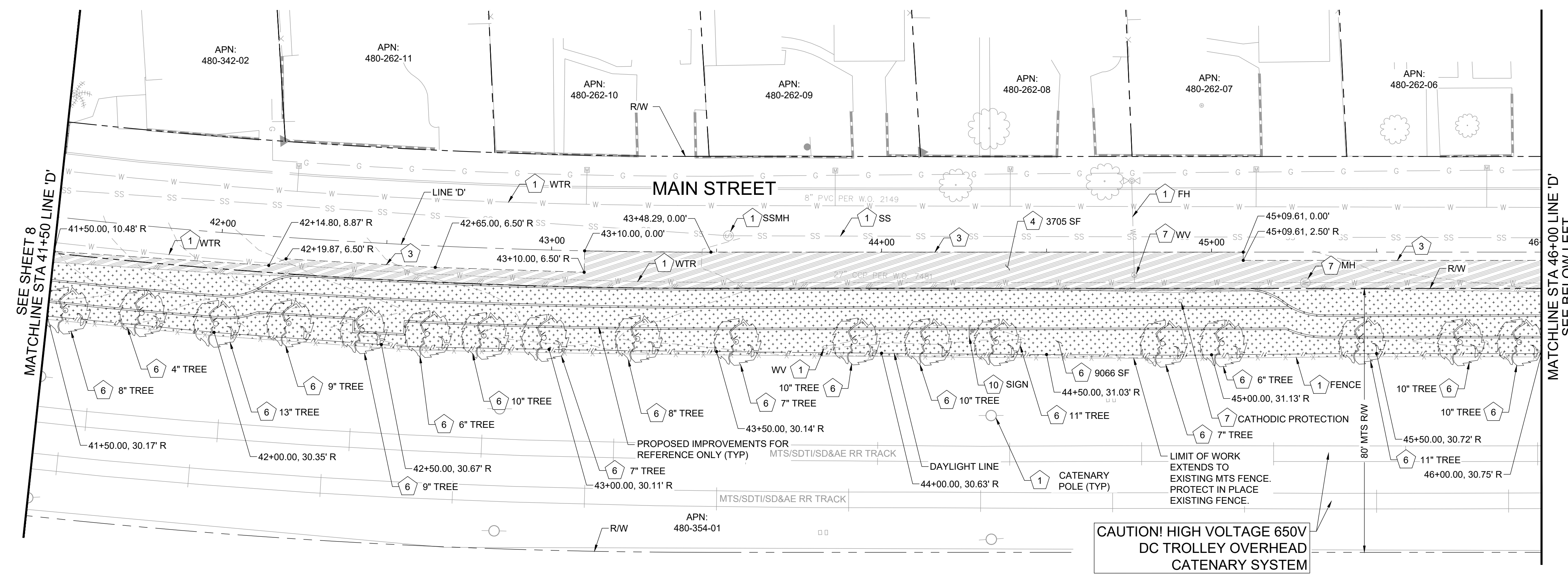
- DEMOLITION NOTES**
- 1 PROTECT IN PLACE
 - 3 SAWCUT PER DETAIL A ON SHEET 19
 - 4 REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT AND AGGREGATE BASE
 - 5 REMOVE AND DISPOSE OF EXISTING CONCRETE SIDEWALK, CURB, MEDIAN CURB, GUTTER, AND AGGREGATE BASE
 - 6 REMOVE EXISTING VEGETATION, DEBRIS, AND OTHER MATERIAL IN CONFLICT WITH THE PROPOSED IMPROVEMENTS
 - 7 ADJUST TO FINISHED GRADE, BY OTHERS
 - 10 SEE SIGNING & PAVEMENT MARKING PLANS SHEET 22
 - 14 SEE TRAFFIC SIGNAL PLANS
 - 15 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

- 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.
 - CONTRACTOR SHALL VERIFY THE EXISTENCE AND HORIZONTAL/VERTICAL LOCATION OF ALL UTILITIES WITHIN THE PROJECT AREA THAT MAY CONFLICT WITH THE PROPOSED CONSTRUCTION. CONTRACTOR SHALL VERIFY THAT ANY UTILITIES SHOWN TO BE RELOCATED AND ARE NO LONGER IN CONFLICT. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY REMAINING UTILITY CONFLICTS PRIOR TO THE START OF ANY DEMOLITION WORK.
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 - 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.

DEMOLITION PLANS FOR:

**CONNECT MAIN STREET
PHASES 1 & 2
STA 41+50 TO STA 51+00**

CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 9 OF 44 SHEETS		DATE: 7/20/23	TM/TPM
DESCRIPTION	BY	APPROVED	FILMED
ORIGINAL	CRA		
AS-BUILTS		1848-6321 NAD83 COORDINATES	
CONTRACTOR		206-1755 & 210-1755 LAMBERT COORDINATES	
INSPECTOR		R23-01-09	

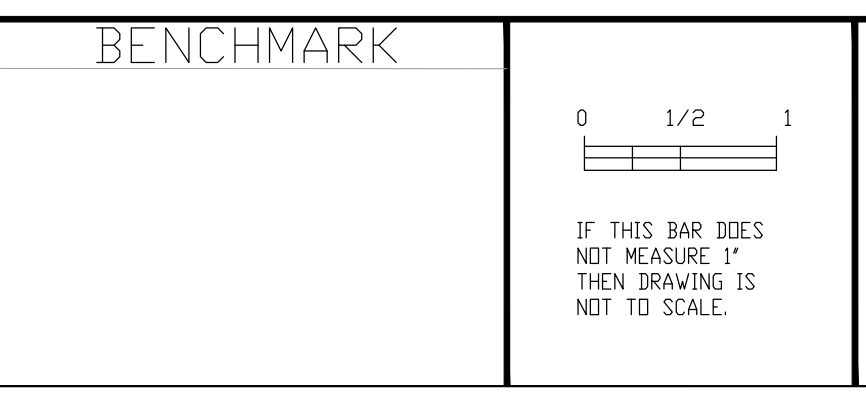


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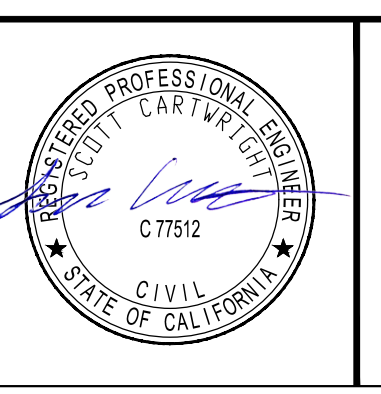
CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS



COR
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STREET DATA TABLE

STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50

FINAL CONSTRUCTION DRAWINGS

GENERAL NOTES

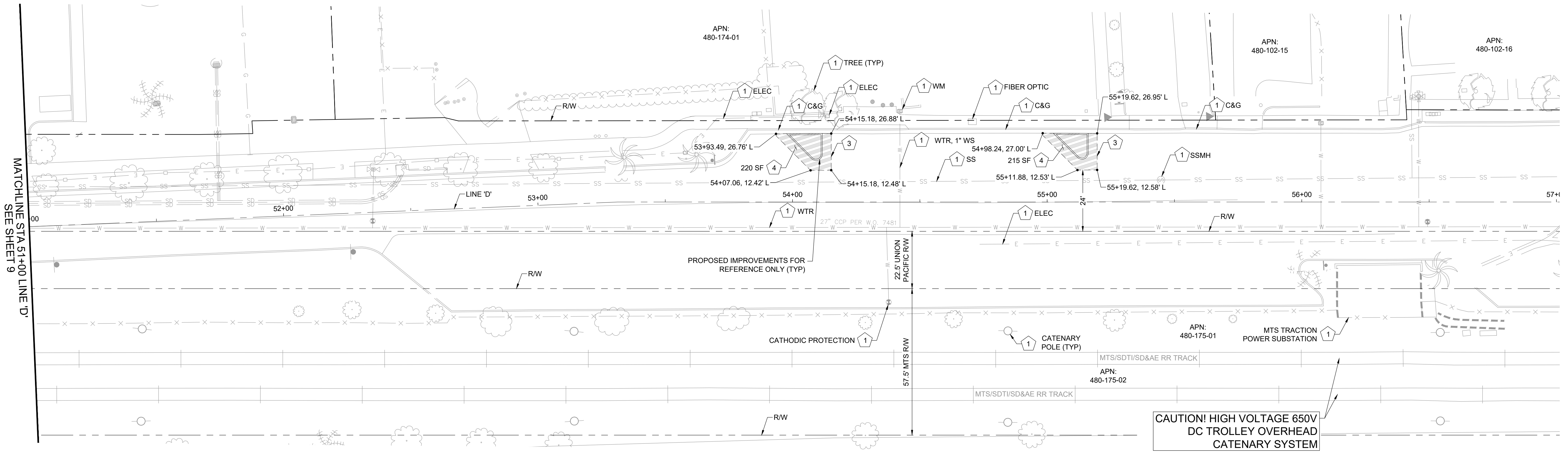
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- PROPOSED IMPROVEMENTS SHOWN FOR REFERENCE ONLY. SEE IMPROVEMENT PLANS FOR PROPOSED IMPROVEMENTS.
- SEE SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKINGS AND TRAFFIC SIGN RELOCATIONS AND NEW INSTALLATIONS.
- EXISTING WATER METERS AND FIRE HYDRANTS SHALL REMAIN IN OPERATION UNTIL NEW SYSTEMS ARE OPERATIONAL. SEE IMPROVEMENT PLANS FOR IMPROVEMENTS.

LEGEND

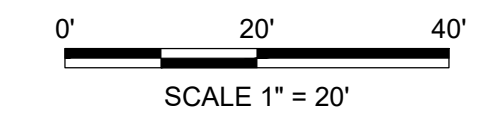
- PROPERTY LINE
- SAWCUT LINE
- TREE TO BE PROTECTED IN PLACE
- TREE TO BE REMOVED AND DISPOSED

DEMOLITION NOTES

- 1 PROTECT IN PLACE
- 3 SAWCUT PER DETAIL A ON SHEET 19
- 4 REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT AND AGGREGATE BASE



CAUTION! HIGH VOLTAGE 650V DC TROLLEY OVERHEAD CATENARY SYSTEM

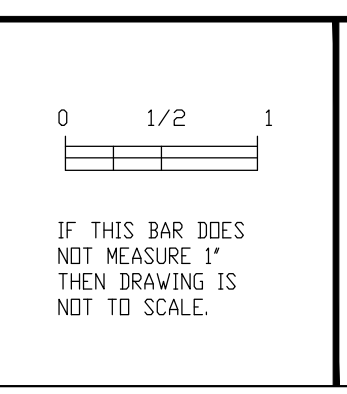


SECTION 4216/4217 OF THE STATE OF CA GOV CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. CALL AT LEAST TWO DAYS BEFORE YOU DIG.

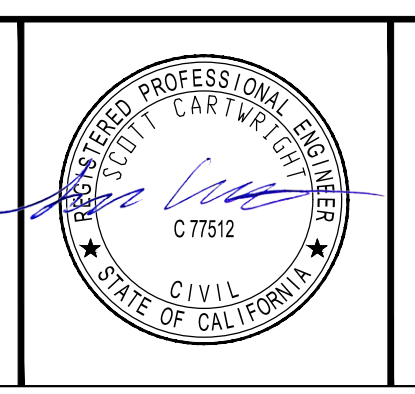
DEMOLITION PLANS FOR:			
CONNECT MAIN STREET PHASES 1 & 2			
STA 51+00 TO STA 57+00			
CITY OF LEMON GROVE, CALIFORNIA		DEVELOPMENT SERVICES DEPARTMENT	
SHEET 10 OF 44 SHEETS		DATE: 7/20/23	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	CRA		
AS-BUILTS			
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
			R23-01-10

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, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50

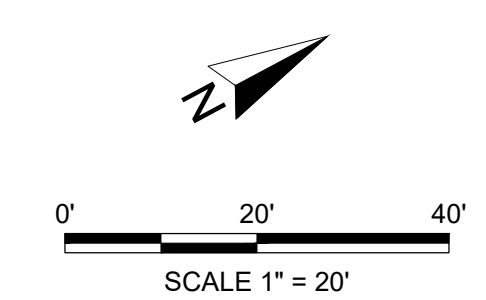
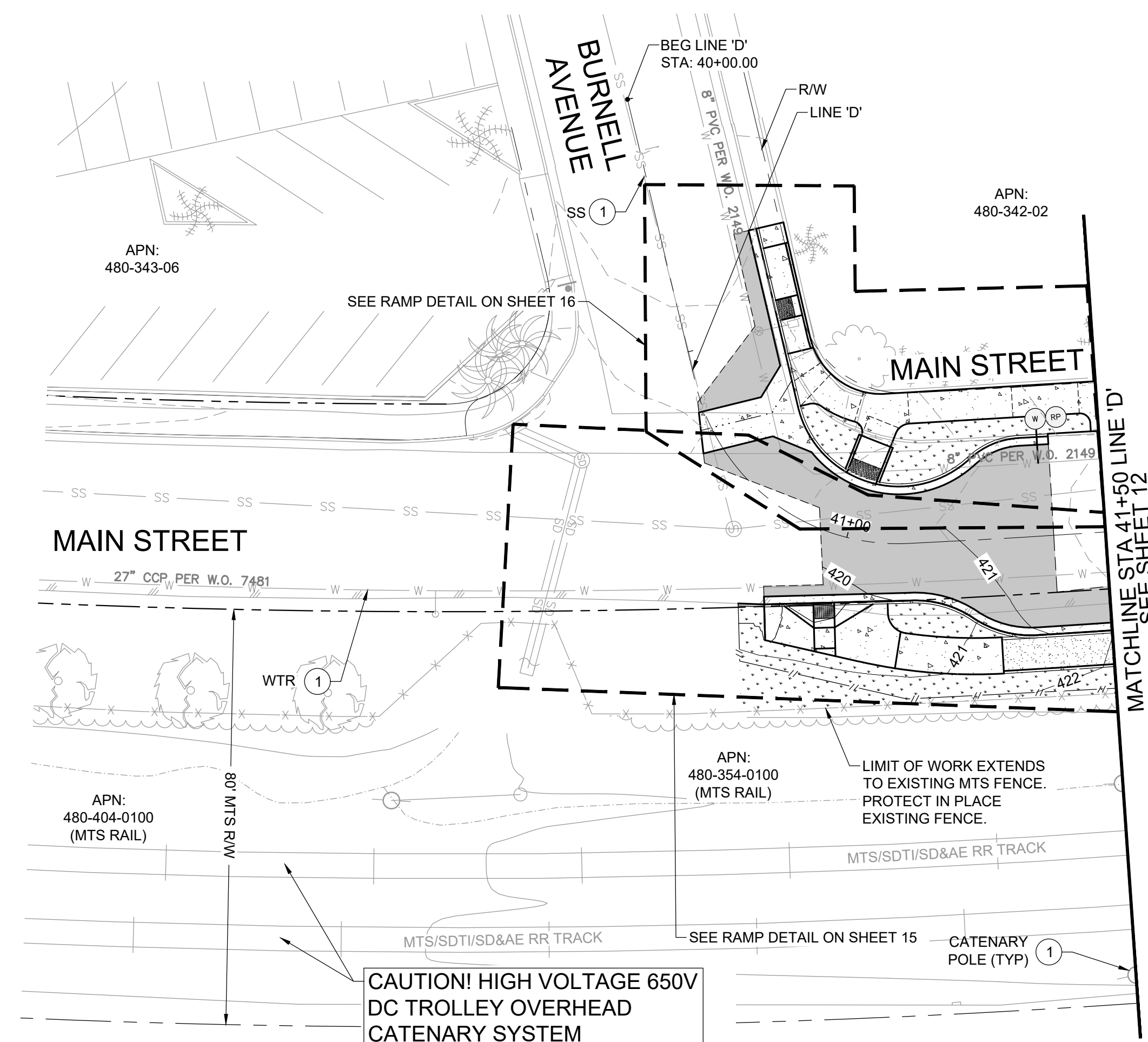
FINAL CONSTRUCTION DRAWINGS

LEGEND

PROPERTY LINE	-----
SAWCUT LINE	-----
DAYLIGHT LINE	-----
EXISTING FENCE LINE	-----
FLOW LINE	-----

CONSTRUCTION NOTES

- ① PROTECT IN PLACE

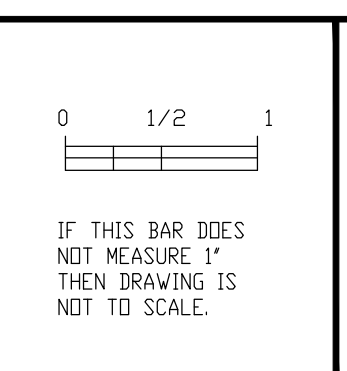


811 Know what's below. Call before you dig.

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.

IMPROVEMENT PLANS FOR:			
CONNECT MAIN STREET PHASES 1 & 2			
STA 22+50 TO STA 26+37 STA 40+00 TO STA 42+00			
CITY OF LEMON GROVE, CALIFORNIA		DATE: 7/20/23	
DEVELOPMENT SERVICES DEPARTMENT		DATE: _____	
SHEET 11 OF 44 SHEETS		DATE: _____	
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	CRA		
AS-BUILTS			
CONTRACTOR _____		DATE STARTED _____	
INSPECTOR _____		DATE COMPLETED _____	
		R23-01-11	

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS



C R

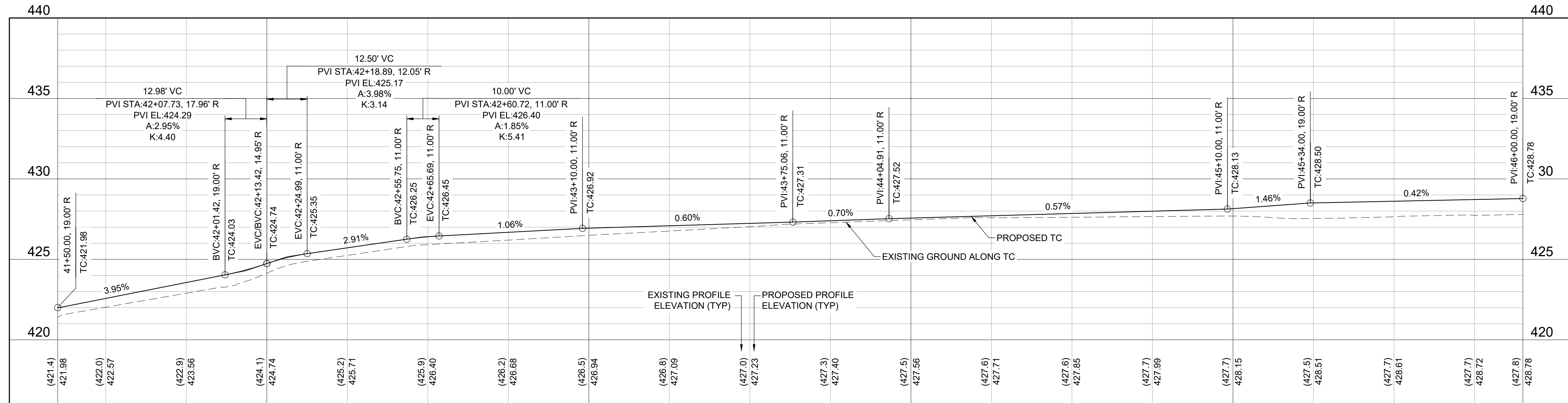
3900 Fifth Avenue, Suite 310 • San Diego, CA 92103 • 619.795.6086

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



STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50

FINAL CONSTRUCTION DRAWINGS

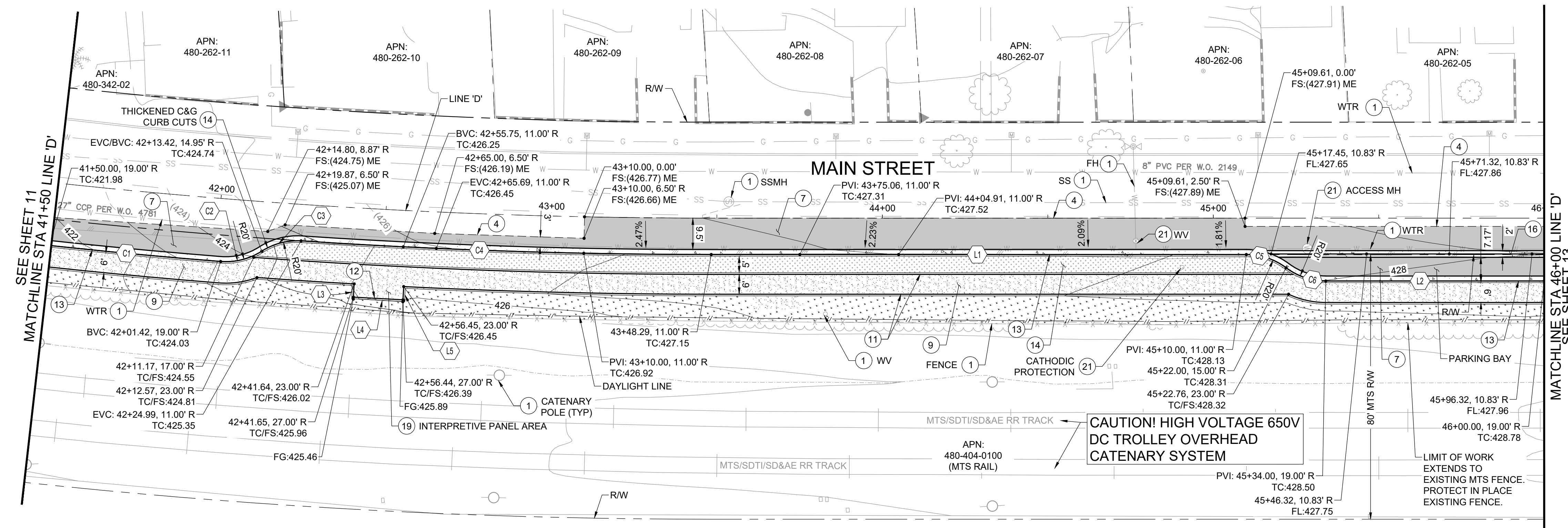


MAIN STREET EASTERLY TC
 HORZ: 1" = 20'
 VERT: 1" = 4'

LEGEND

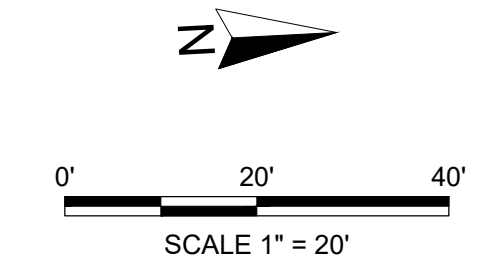
PROPERTY LINE	---
SAWCUT LINE	---
DAYLIGHT LINE	---
EXISTING FENCE LINE	---

- CONSTRUCTION NOTES**
- 1 PROTECT IN PLACE
 - 4 SAWCUT PER DETAIL A ON SHEET 19
 - 7 CONSTRUCT HMA PAVEMENT, 4" HMA OVER 6" 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 D ON SHEET 19
 - 12 CONSTRUCT 6" CURB PER SDRSD G-01
 - 13 CONSTRUCT TYPE G 6" CURB & GUTTER PER SDRSD G-02
 - 14 SEE STORM DRAIN & BMP PLANS
 - 16 CONSTRUCT PARKING BAY CONCRETE GUTTER PER SDRSD G-38
 - 19 SEE LANDSCAPE PLANS
 - 21 ADJUST TO FINISHED GRADE BY OTHERS



GEOMETRIC CURB DATA

LINE	LENGTH	LINE/CHORD DIRECTION	R	T	DELTA	REMARKS
L3	4.00'	S83°56'05"E				6" CURB AND GUTTER PER SDRSD G-02
L4	16.00'	N06°03'55"E				6" CURB AND GUTTER PER SDRSD G-02
L5	4.00'	N83°56'05"W				6" CURB AND GUTTER PER SDRSD G-02
C1	51.93'	N08°20'17"E	1867.91'	25.97'	1°35'35"	6" CURB AND GUTTER PER SDRSD G-02
C2	13.00'	N11°04'48"W	20.00'	6.74'	37°14'35"	6" CURB AND GUTTER PER SDRSD G-02
C3	12.53'	N11°45'19"W	20.00'	6.48'	35°53'32"	6" CURB AND GUTTER PER SDRSD G-02
C4	124.03'	N04°54'00"E	1859.91'	62.04'	3°49'15"	6" CURB AND GUTTER PER SDRSD G-02
L1	161.71'	N02°59'23"E				6" CURB AND GUTTER PER SDRSD G-02
C5	12.87'	N21°25'29"E	20.00'	6.67'	36°52'12"	6" CURB AND GUTTER PER SDRSD G-02
C6	12.87'	N21°25'29"E	20.00'	6.67'	36°52'12"	6" CURB AND GUTTER PER SDRSD G-02
L2	66.00'	N02°59'23"E				6" CURB AND GUTTER PER SDRSD G-02



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

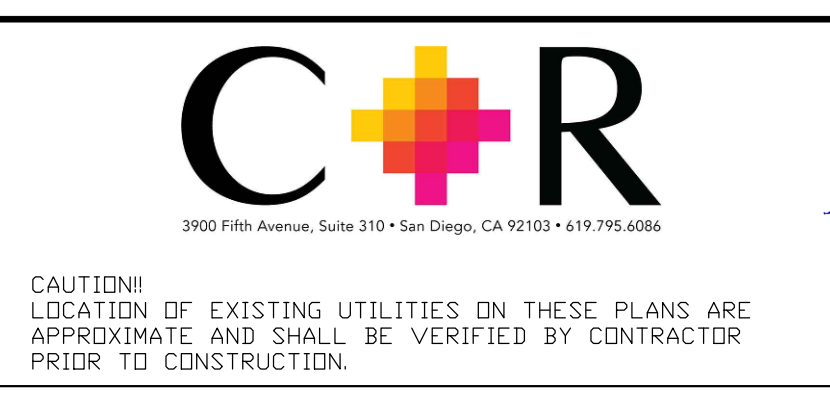
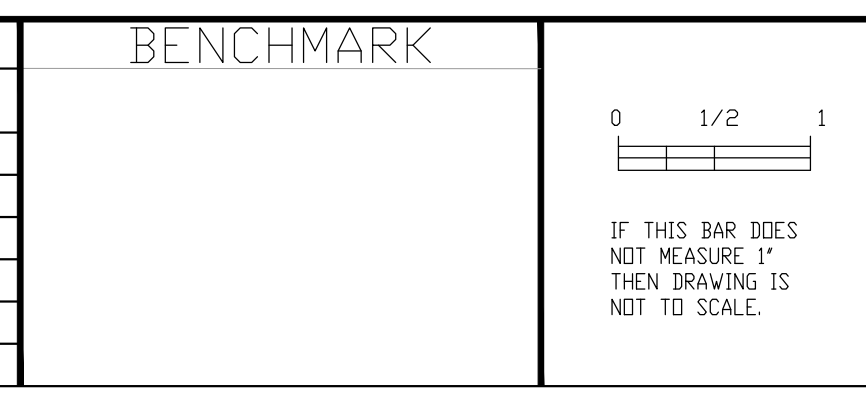
SECTION 4216/4217 OF THE STATE OF CA GOV CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID. CALL AT LEAST TWO DAYS BEFORE YOU DIG.

IMPROVEMENT PLANS FOR:
CONNECT MAIN STREET PHASES 1 & 2
 STA 41+50 TO STA 46+00

CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 12 OF 44 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
			R23-01-12

CONSTRUCTION CHANGE TABLE

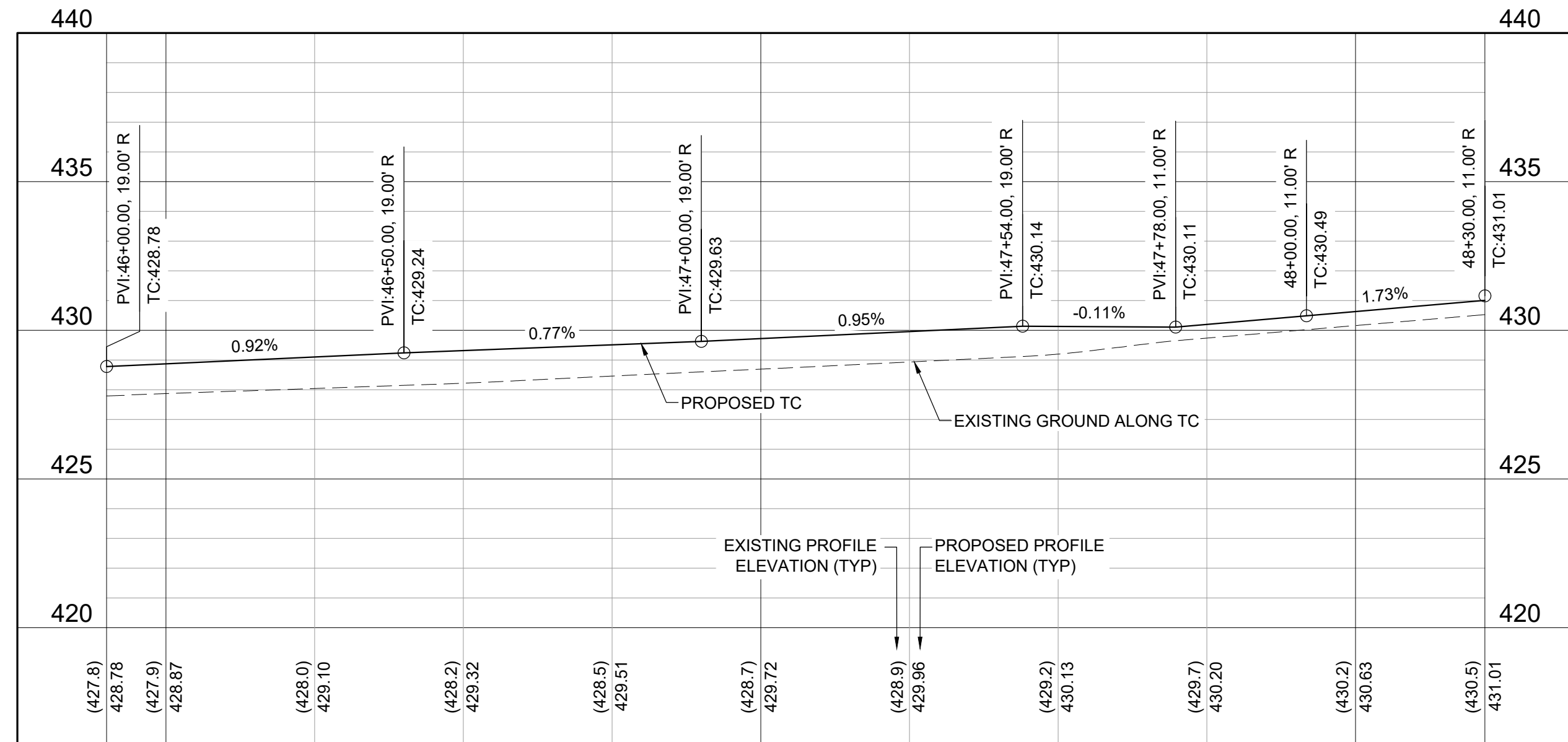
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS



STREET DATA TABLE

STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50

FINAL CONSTRUCTION DRAWINGS



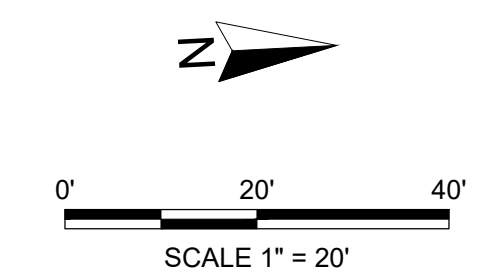
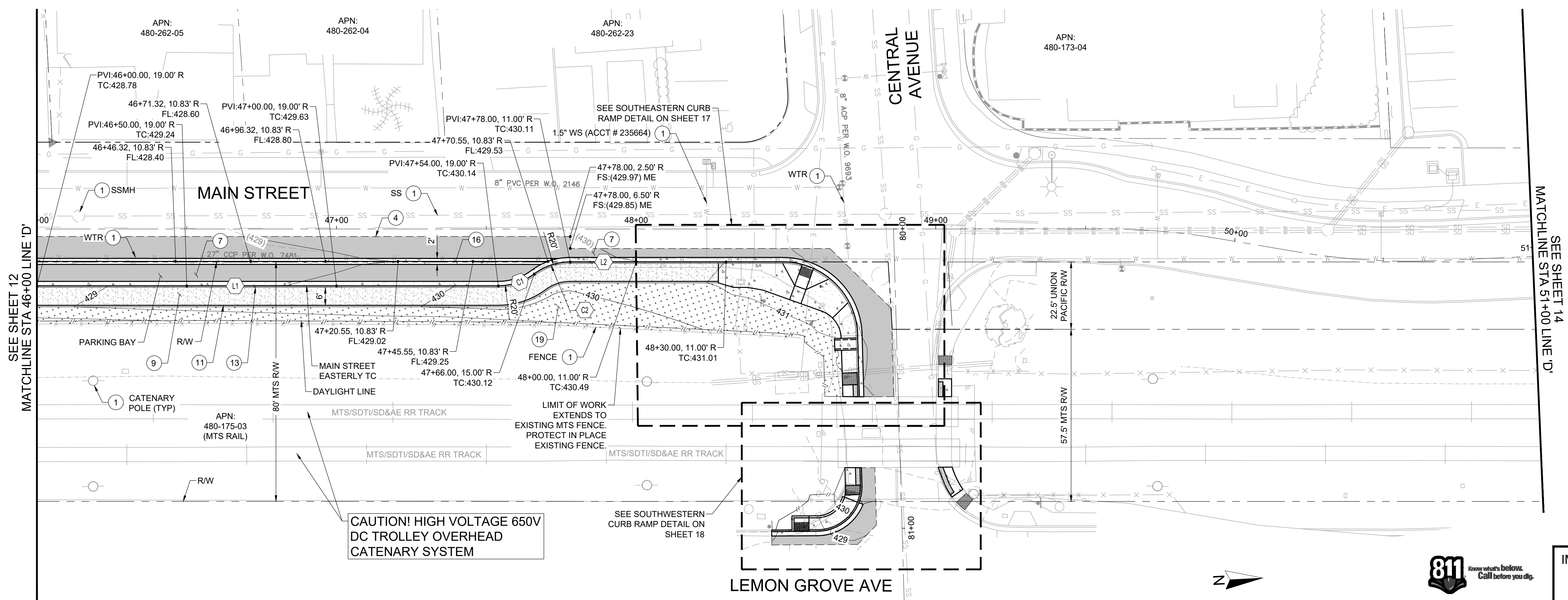
MAIN STREET EASTERLY TC
 HORZ: 1" = 20'
 VERT: 1" = 4'

GEOMETRIC CURB DATA						
	LENGTH	LINE/CHORD DIRECTION	R	T	DELTA	REMARKS
L1	154.00'	S02°59'23"W				6" CURB AND GUTTER PER SDRSD G-02
C1	12.87'	S15°26'43"E	20.00'	6.67'	36°52'12"	6" CURB AND GUTTER PER SDRSD G-02
C2	12.87'	S15°26'43"E	20.00'	6.67'	36°52'12"	6" CURB AND GUTTER PER SDRSD G-02
L2	22.00'	S02°59'23"W				6" CURB AND GUTTER PER SDRSD G-02

LEGEND

PROPERTY LINE	---
SAWCUT LINE	- - - - -
DAYLIGHT LINE	—//—//—
EXISTING FENCE LINE	—x—x—x—

- CONSTRUCTION NOTES**
- 1 PROTECT IN PLACE
 - 4 SAWCUT PER DETAIL A ON SHEET 19
 - 7 CONSTRUCT HMA PAVEMENT, 4" HMA OVER 6" 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 D ON SHEET 19
 - 13 CONSTRUCT TYPE G 6" CURB & GUTTER PER SDRSD G-02
 - 16 CONSTRUCT PARKING BAY CONCRETE GUTTER PER SDRSD G-38
 - 19 SEE LANDSCAPE PLANS



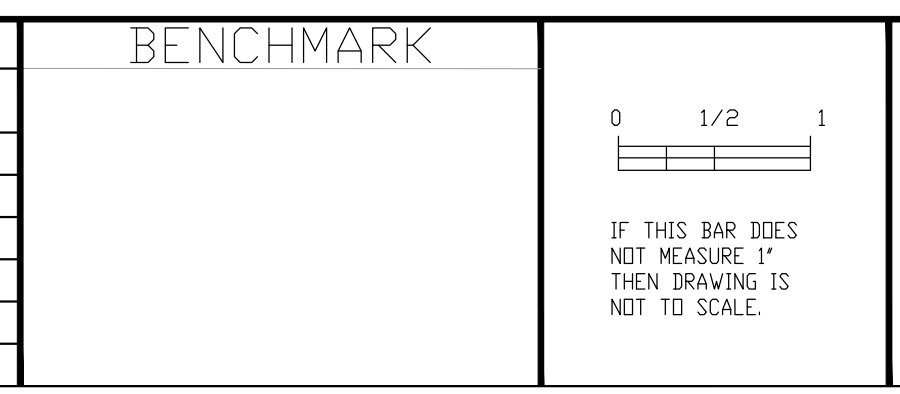
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IMPROVEMENT PLANS FOR:
CONNECT MAIN STREET PHASES 1 & 2
 STA 46+00 TO STA 51+00

CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 13 OF 44 SHEETS		DATE: 7/20/23	TM/TPM
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	CRA		
AS-BUILTS			1948-6321 NAD83 COORDINATES
CONTRACTOR			206-1755 & 210-1755 LAMBERT COORDINATES
INSPECTOR			R23-01-13

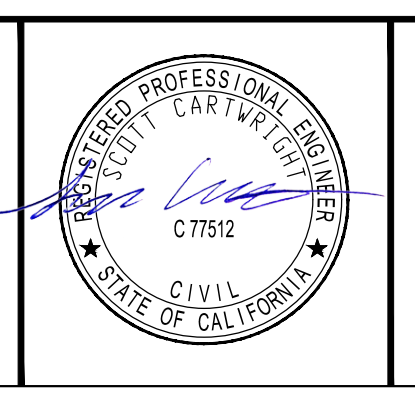
CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS



COR
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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, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50

FINAL CONSTRUCTION DRAWINGS

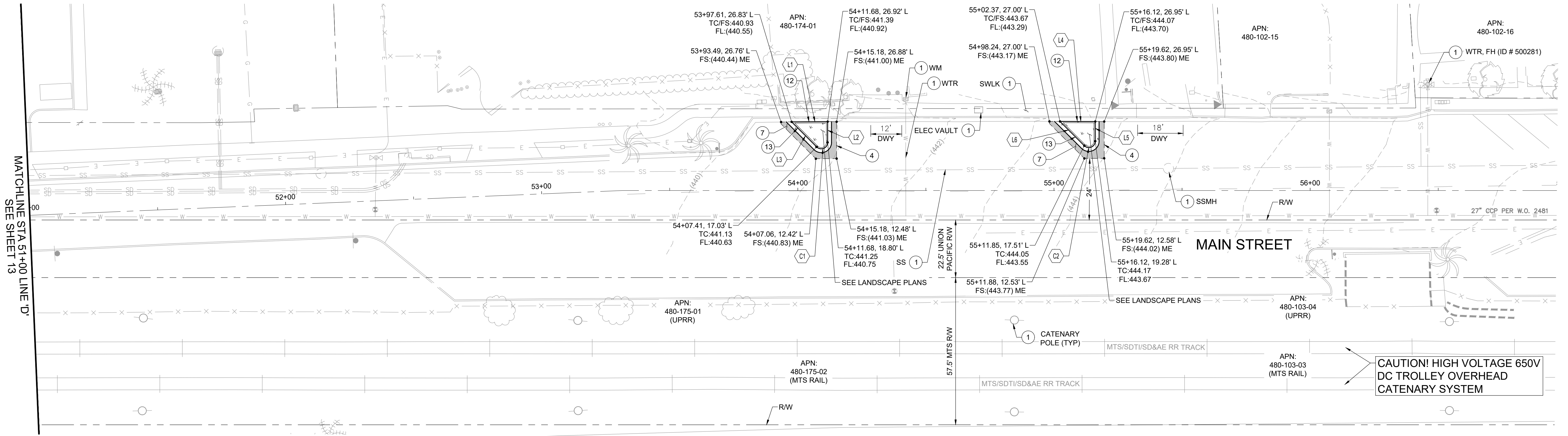
GEOMETRIC CURB DATA						
	LENGTH	LINE/CHORD DIRECTION	R	T	DELTA	REMARKS
L1	14.06'	N02°36'39"E				6" CURB AND GUTTER PER SDRSD G-02
L2	8.12'	S87°00'37"E				6" CURB AND GUTTER PER SDRSD G-02
C1	5.89'	S19°30'37"E	2.50'	6.04	135°00'00"	6" CURB PER SDRSD G-01
L3	13.86'	S47°59'23"W				6" CURB AND GUTTER PER SDRSD G-02
L4	13.75'	S03°10'32"W				6" CURB AND GUTTER PER SDRSD G-02
L5	7.67'	N87°00'37"W				6" CURB AND GUTTER PER SDRSD G-02
C2	5.89'	N19°30'37"W	2.50'	6.04	135°00'00"	6" CURB AND GUTTER PER SDRSD G-02
L6	13.42'	N47°59'23"E				6" CURB PER SDRSD G-01

LEGEND

SAWCUT LINE 
 EXISTING FENCE LINE 

CONSTRUCTION NOTES

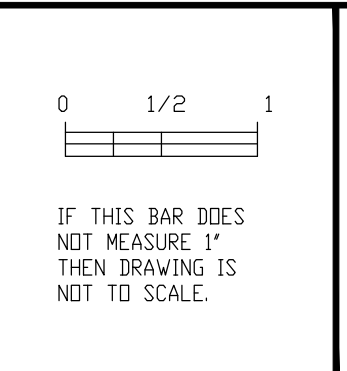
- ① PROTECT IN PLACE
- ④ SAWCUT PER DETAIL A ON SHEET 19
- ⑦ CONSTRUCT HMA PAVEMENT, 4" HMA OVER 6" CLASS 2 AGGREGATE BASE
- ⑫ CONSTRUCT 6" CURB PER SDRSD G-01
- ⑬ CONSTRUCT TYPE G 6" CURB & GUTTER PER SDRSD G-02



MATCHLINE STA 51+00 LINE 'D'
SEE SHEET 13

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK



CAUTION!
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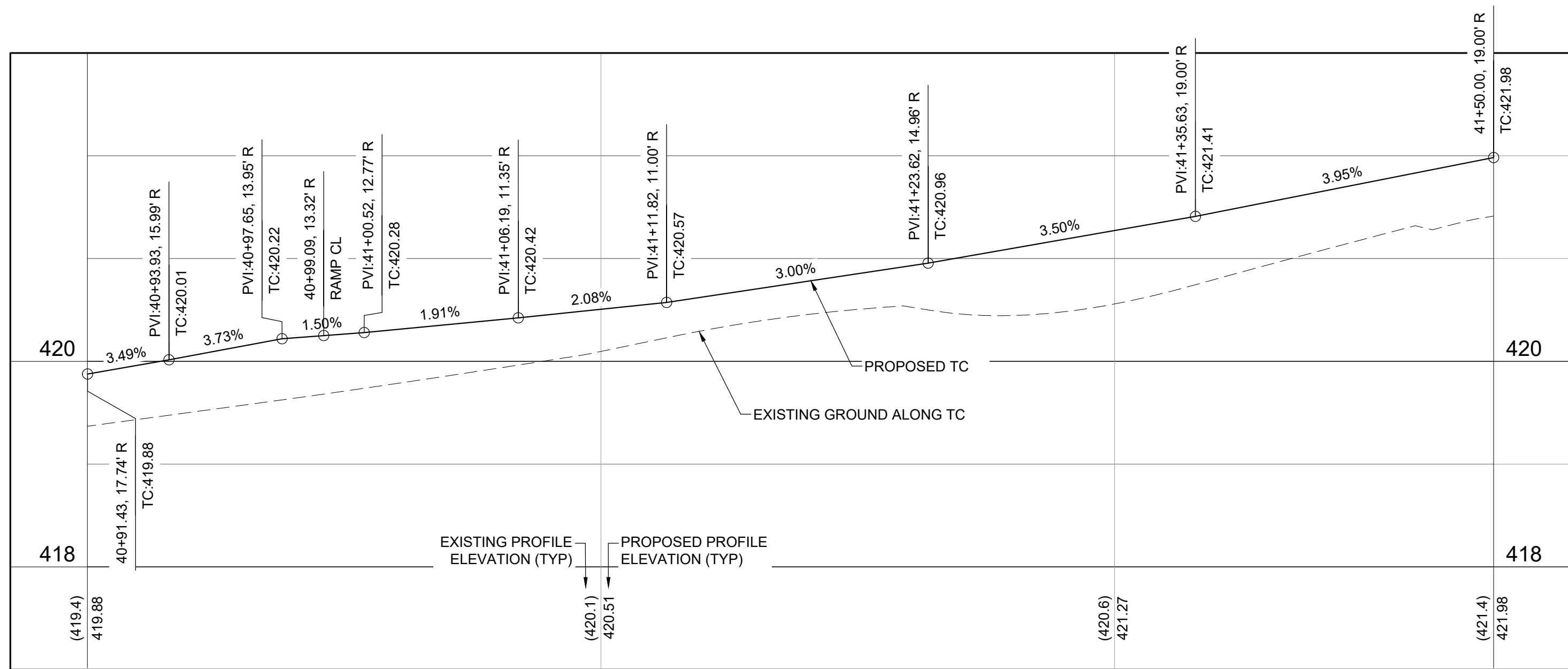
STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50

IMPROVEMENT PLANS FOR:
CONNECT MAIN STREET PHASES 1 & 2
 STA 51+00 TO STA 57+00

CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 14 OF 44 SHEETS		DATE: 7/20/23	TM/TPM
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	CRA		
AS-BUILTS			
CONTRACTOR	DATE STARTED		
INSPECTOR	DATE COMPLETED		
			R23-01-14

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FINAL CONSTRUCTION DRAWINGS



NORTHEAST CURB RAMP TC

HORIZ: 1" = 5'
VERT: 1" = 1'

GEOMETRIC CURB DATA						
	LENGTH	LINE/CHORD DIRECTION	R	T	DELTA	REMARKS
L5	28.19'	N11°33'41"E				6" CURB AND GUTTER PER SDRSD G-02
C7	12.74'	N28°34'08"E	20.00'	6.60	36°30'09"	6" CURB AND GUTTER PER SDRSD G-02
C8	13.00'	N28°12'00"E	20.00'	6.74	37°14'25"	6" CURB AND GUTTER PER SDRSD G-02
L8	14.52'	N09°21'26"E				6" CURB AND GUTTER PER SDRSD G-02

LEGEND

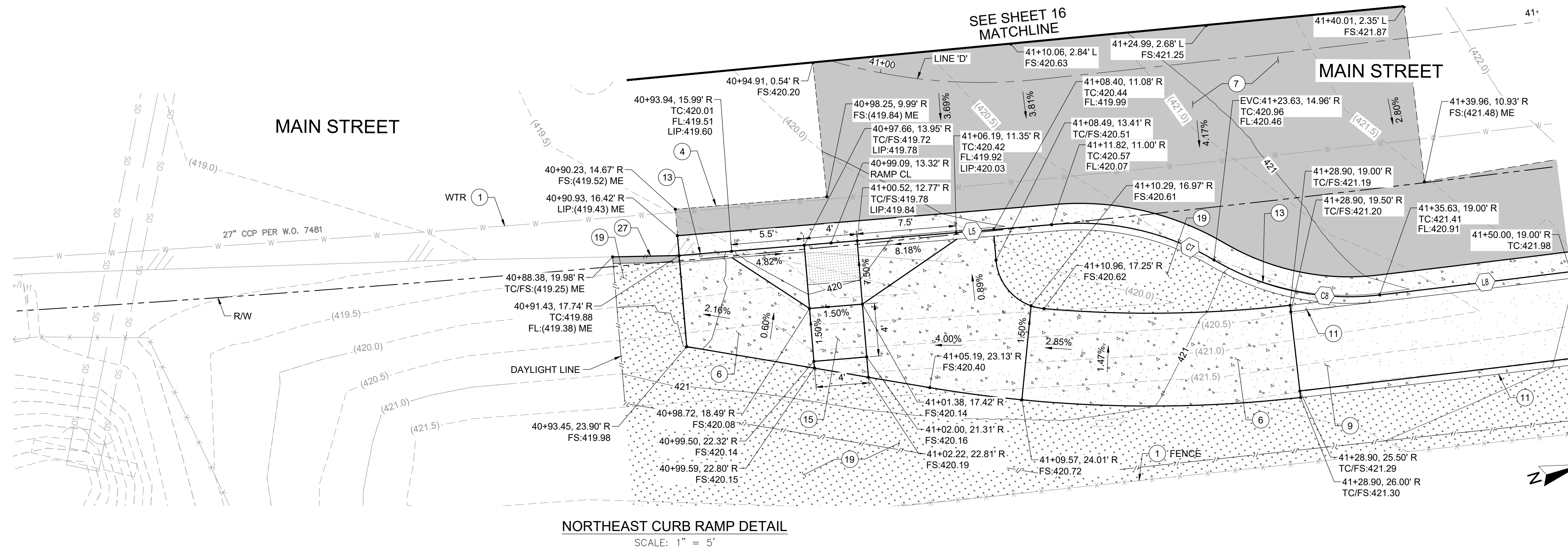
PROPERTY LINE	---
SAWCUT LINE	- - - - -
DAYLIGHT LINE	
EXISTING FENCE LINE	× × × ×

CONSTRUCTION NOTES

- 1 PROTECT IN PLACE
- 4 SAWCUT PER DETAIL A ON SHEET 19
- 6 CONSTRUCT 4" PCC SIDEWALK PER SDRSD G-07
- 7 CONSTRUCT HMA PAVEMENT, 4" HMA OVER 6" 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 D ON SHEET 19
- 13 CONSTRUCT TYPE G 6" CURB & GUTTER PER SDRSD G-02
- 15 CONSTRUCT ADA RAMP PER SDRSD G-27
- 19 SEE LANDSCAPE PLANS
- 27 TRANSITION PER DETAIL F ON SHEET 19

GENERAL IMPROVEMENT NOTES

1. 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.
2. SEE CONSTRUCTION DETAIL PLANS FOR PROPOSED GEOMETRY AND ADDITIONAL DESIGN INFORMATION.
3. SEE DRAINAGE PLAN SHEETS FOR STORM DRAIN IMPROVEMENTS.
4. SEE TRAFFIC SIGNAL PLANS, PAVEMENT MARKING PLANS, AND SIGNAGE PLANS FOR REMOVAL, RELOCATION AND/OR ADJUSTMENTS OF TRAFFIC RELATED IMPROVEMENTS.
5. SEE LANDSCAPING PLANS FOR LANDSCAPE IMPROVEMENTS.
6. CONCRETE SHALL BE SAWCUT AND REMOVED TO THE NEAREST JOINT.
7. ALL PROPOSED SIDEWALK SHALL MATCH EXISTING SIDEWALK PATTERN, COLOR, AND FINISH.
8. CONTRACTOR SHALL EXPOSE ALL WATER VALVES TO KEEP VALVES ACCESSIBLE DURING PAVING OPERATIONS.



NORTHEAST CURB RAMP DETAIL
SCALE: 1" = 5'



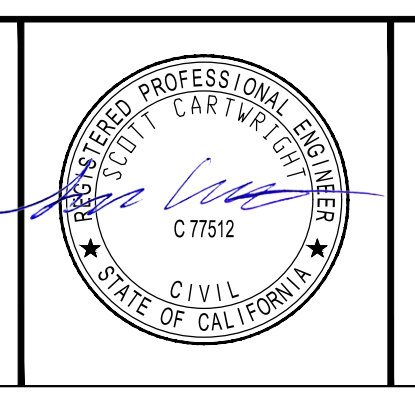
SECTION 4216/4217 OF THE STATE OF CALIFORNIA CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID. CALL AT LEAST TWO DAYS BEFORE YOU DIG.

INTERSECTION DETAILS FOR:			
CONNECT MAIN STREET PHASES 1 & 2			
DESCRIPTION	BY	APPROVED	DATE
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 15 OF 44 SHEETS			7/20/23
FOR CITY ENGINEER*			DATE
ORIGINAL	CRA		DATE
AS-BUILTS			DATE
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

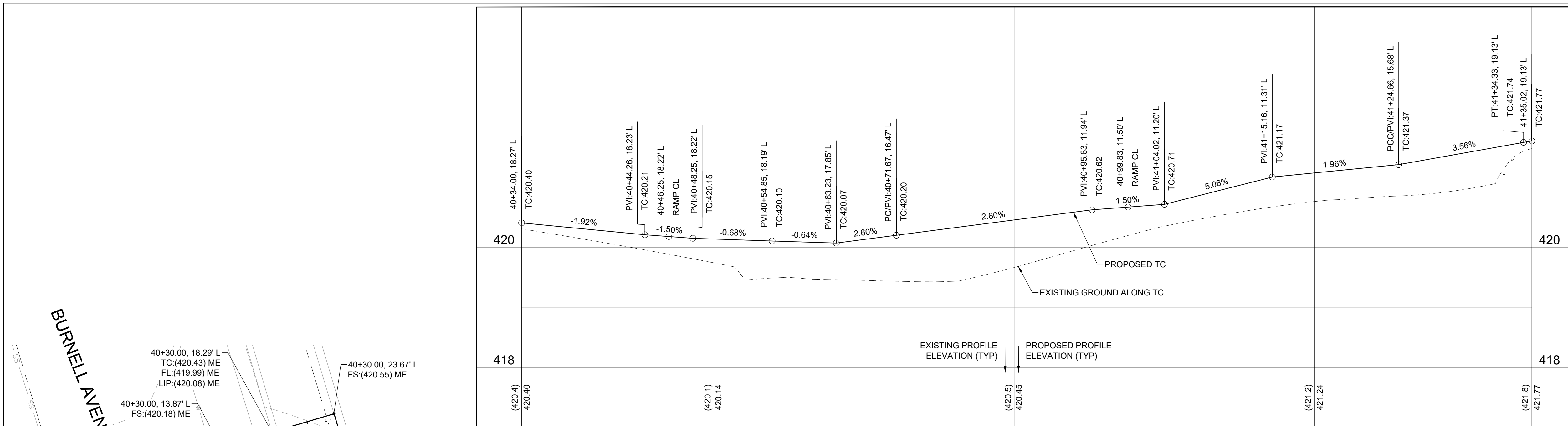
BENCHMARK	

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, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50

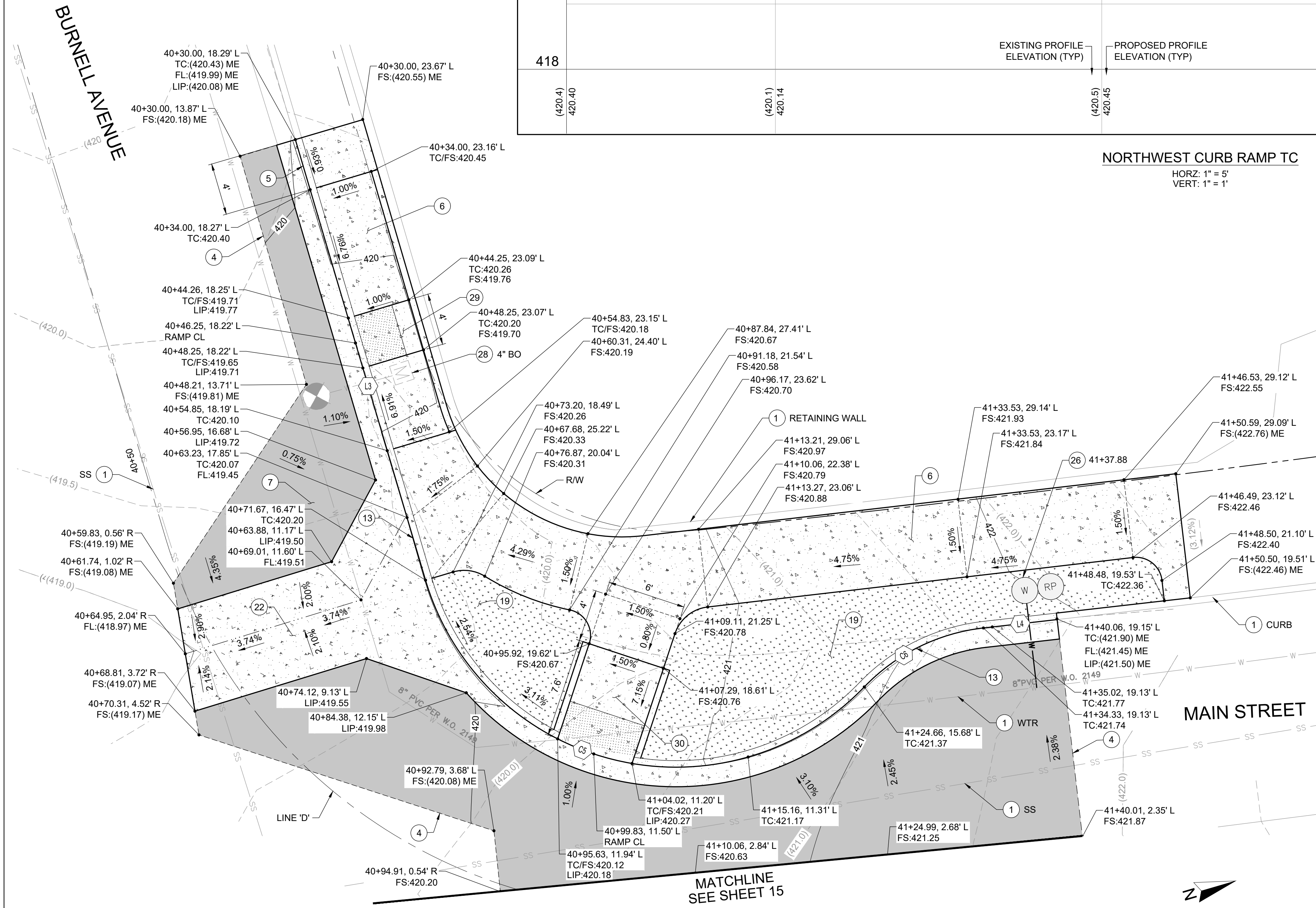
FINAL CONSTRUCTION DRAWINGS



LEGEND

PROPERTY LINE	---
SAWCUT LINE	—/—/—
DAYLIGHT LINE	—/—/—/—
EXISTING FENCE LINE	—x—x—x—

- CONSTRUCTION NOTES**
- 1 PROTECT IN PLACE
 - 4 SAWCUT PER DETAIL A ON SHEET 19
 - 5 TRANSITION TO EXISTING CURB / CURB & GUTTER PER DETAIL B ON SHEET 19
 - 6 CONSTRUCT 4" PCC SIDEWALK PER SDRSD G-07
 - 7 CONSTRUCT HMA PAVEMENT, 4" HMA OVER 6" CLASS 2 AGGREGATE BASE
 - 13 CONSTRUCT TYPE G 6" CURB & GUTTER PER SDRSD G-02
 - 19 SEE LANDSCAPE PLANS
 - 22 CONSTRUCT CONCRETE CROSS GUTTER PER SDRSD G-12
 - 26 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
 - 28 RELOCATE, BY OTHERS
 - 29 CONSTRUCT ADA RAMP PER SDRSD G-29
 - 30 CONSTRUCT ADA RAMP PER SDRSD G-31

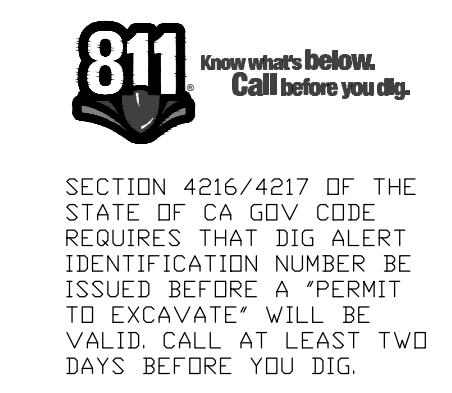


NORTHWEST CURB RAMP TC
 HORZ: 1" = 5'
 VERT: 1" = 1'

- GENERAL IMPROVEMENT NOTES**
1. 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.
 2. SEE CONSTRUCTION DETAIL PLANS FOR PROPOSED GEOMETRY AND ADDITIONAL DESIGN INFORMATION.
 3. SEE DRAINAGE PLAN SHEETS FOR STORM DRAIN IMPROVEMENTS.
 4. SEE TRAFFIC SIGNAL PLANS, PAVEMENT MARKING PLANS, AND SIGNAGE PLANS FOR REMOVAL, RELOCATION AND/OR ADJUSTMENTS OF TRAFFIC RELATED IMPROVEMENTS.
 5. SEE LANDSCAPING PLANS FOR LANDSCAPE IMPROVEMENTS.
 6. CONCRETE SHALL BE SAWCUT AND REMOVED TO THE NEAREST JOINT.
 7. ALL PROPOSED SIDEWALK SHALL MATCH EXISTING SIDEWALK PATTERN, COLOR, AND FINISH.
 8. CONTRACTOR SHALL EXPOSE ALL WATER VALVES TO KEEP VALVES ACCESSIBLE DURING PAVING OPERATIONS.

GEOMETRIC CURB DATA

	LENGTH	LINE/CHORD DIRECTION	R	T	DELTA	REMARKS
L3	35.19'	N89°50'36"E				6" CURB & GUTTER PER SDRSD G-02
C5	41.79'	N29°58'51"E	20.00'	34.45'	119°43'30"	6" CURB & GUTTER PER SDRSD G-02
C6	10.39'	N10°02'28"W	15.00'	5.41'	39°40'52"	6" CURB & GUTTER PER SDRSD G-02
L4	5.68'	N09°47'57"E				6" CURB & GUTTER PER SDRSD G-02

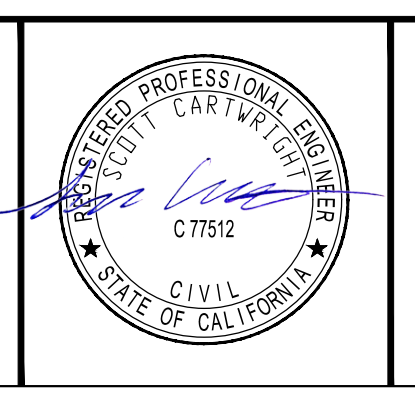
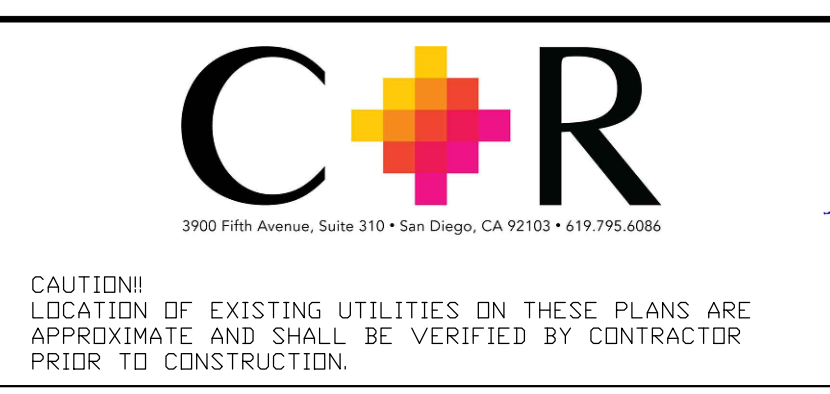
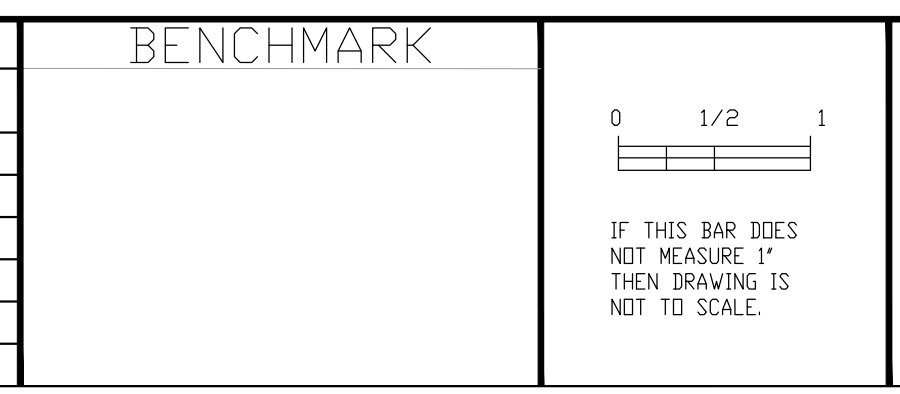


INTERSECTION DETAILS FOR:
CONNECT MAIN STREET PHASES 1 & 2

CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 16 OF 44 SHEETS		DATE: 7/20/23	TM/TPM
DESCRIPTION	BY	APPROVED	FILMED
ORIGINAL	CRA		
AS-BUILTS			
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
			R23-01-16

CONSTRUCTION CHANGE TABLE

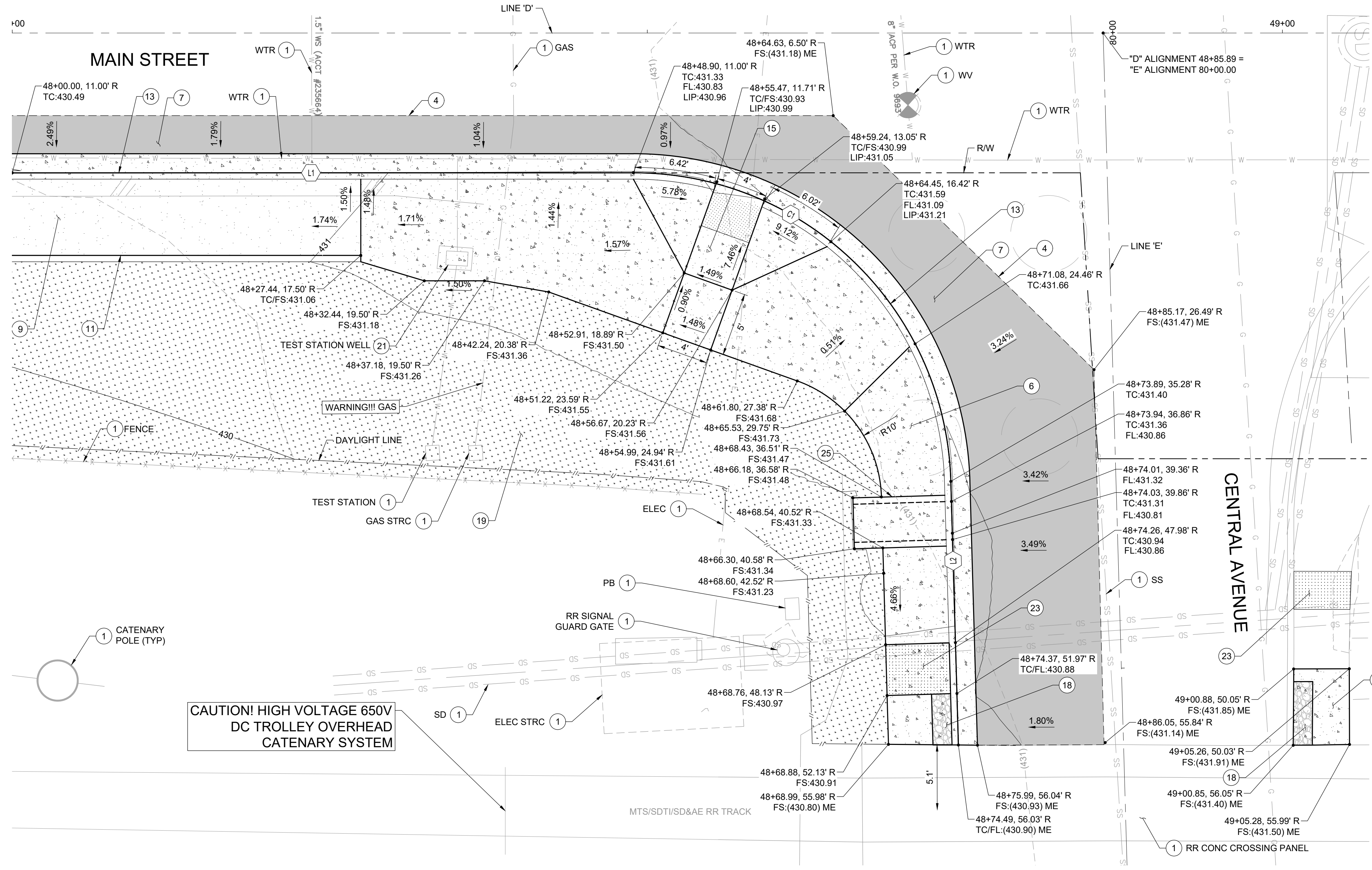
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS



STREET DATA TABLE

STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50

FINAL CONSTRUCTION DRAWINGS



LEGEND

PROPERTY LINE	---
SAWCUT LINE	---
DAYLIGHT LINE	---
EXISTING FENCE LINE	---

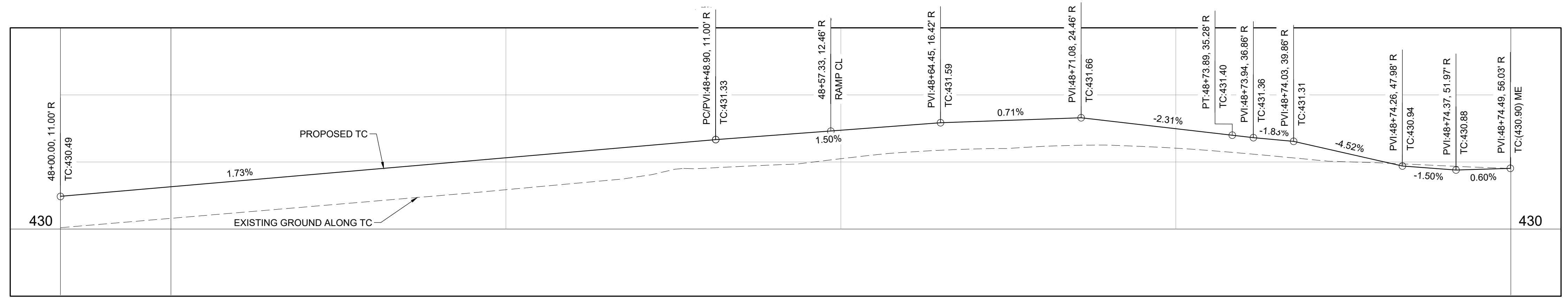
- CONSTRUCTION NOTES**
- PROTECT IN PLACE
 - SAWCUT PER DETAIL A ON SHEET 19
 - CONSTRUCT 4" PCC SIDEWALK PER SDRSD G-07
 - CONSTRUCT HMA PAVEMENT, 4" HMA OVER 6" CLASS 2 AGGREGATE BASE
 - CONSTRUCT D.G. PEDESTRIAN TRAIL, 4" DECOMPOSED GRANITE OVER 2" CLASS 2 AGGREGATE BASE PER LANDSCAPE PLANS
 - CONSTRUCT 0" CURB PER DETAIL D ON SHEET 19
 - CONSTRUCT TYPE G 6" CURB & GUTTER PER SDRSD G-02
 - CONSTRUCT ADA RAMP PER SDRSD G-27
 - CONSTRUCT EPOXY PEBBLE STABILIZED SURFACE PER DETAIL E ON SHEET 19
 - SEE LANDSCAPE PLANS
 - ADJUST TO FINISHED GRADE BY OTHERS
 - CONSTRUCT TRUNCATED DOMES PER SDRSD G-30
 - CONSTRUCT REVERSE CURB OUTLET TYPE A PER SDRSD D-25A MODIFIED WITH RISER AND WITH NO MANHOLE FRAME AND COVER

CAUTION! HIGH VOLTAGE 650V DC TROLLEY OVERHEAD CATENARY SYSTEM

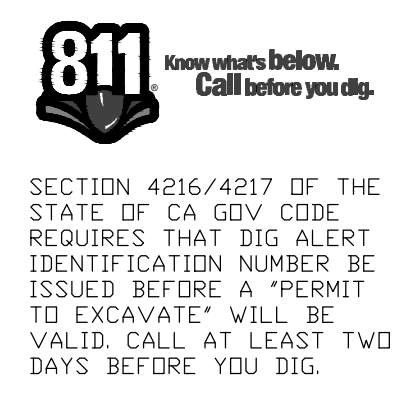
GEOMETRIC CURB DATA

LINE	LENGTH	LINE/CHORD DIRECTION	R	T	DELTA	REMARKS
L1	48.90	N02°57'57"E				6" CURB AND GUTTER PER SDRSD G-02
C1	38.55'	N47°10'03"E	25.00'	24.29'	88°21'19"	6" CURB AND GUTTER PER SDRSD G-02
L2	20.75'	S88°39'17"E				6" CURB AND GUTTER PER SDRSD G-02

SOUTHEASTERN CURB RAMP DETAIL
SCALE: 1" = 5'



SOUTHEASTERN CURB RAMP TC
HORIZ: 1" = 5'
VERT: 1" = 1'

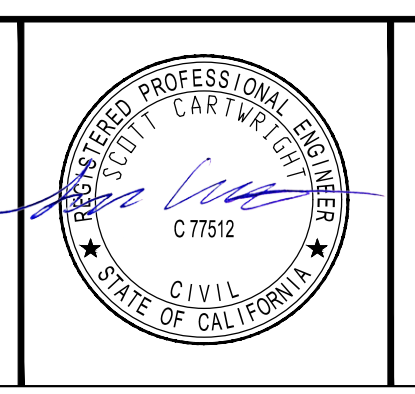
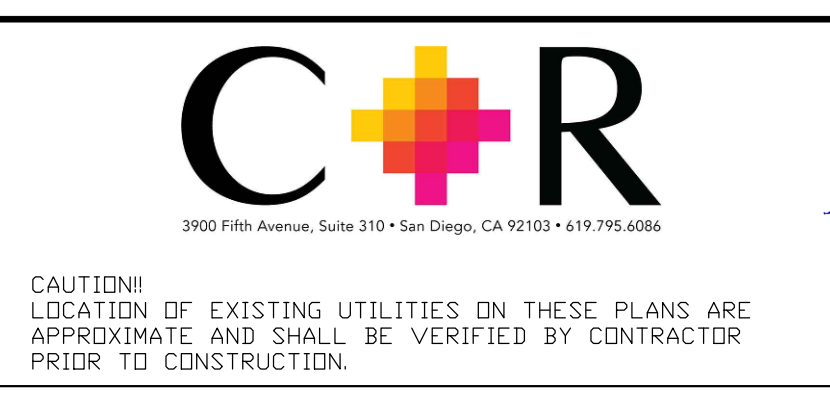
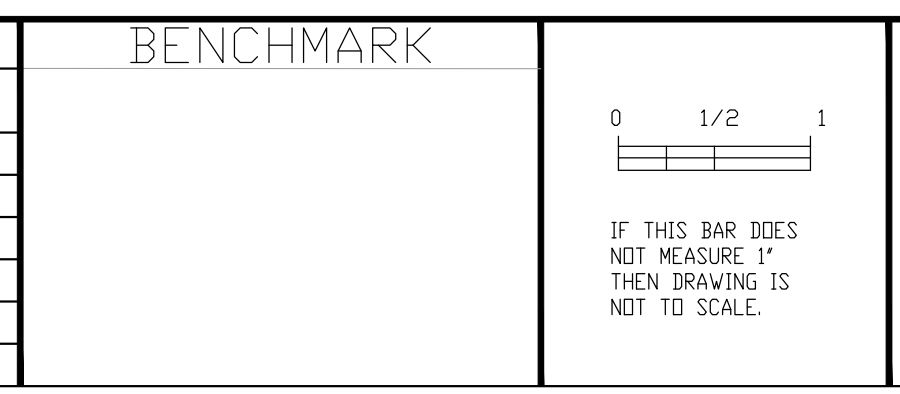


INTERSECTION DETAILS FOR:
CONNECT MAIN STREET PHASES 1 & 2

CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 17 OF 44 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			R23-01-17

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, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50

FINAL CONSTRUCTION DRAWINGS

LEGEND

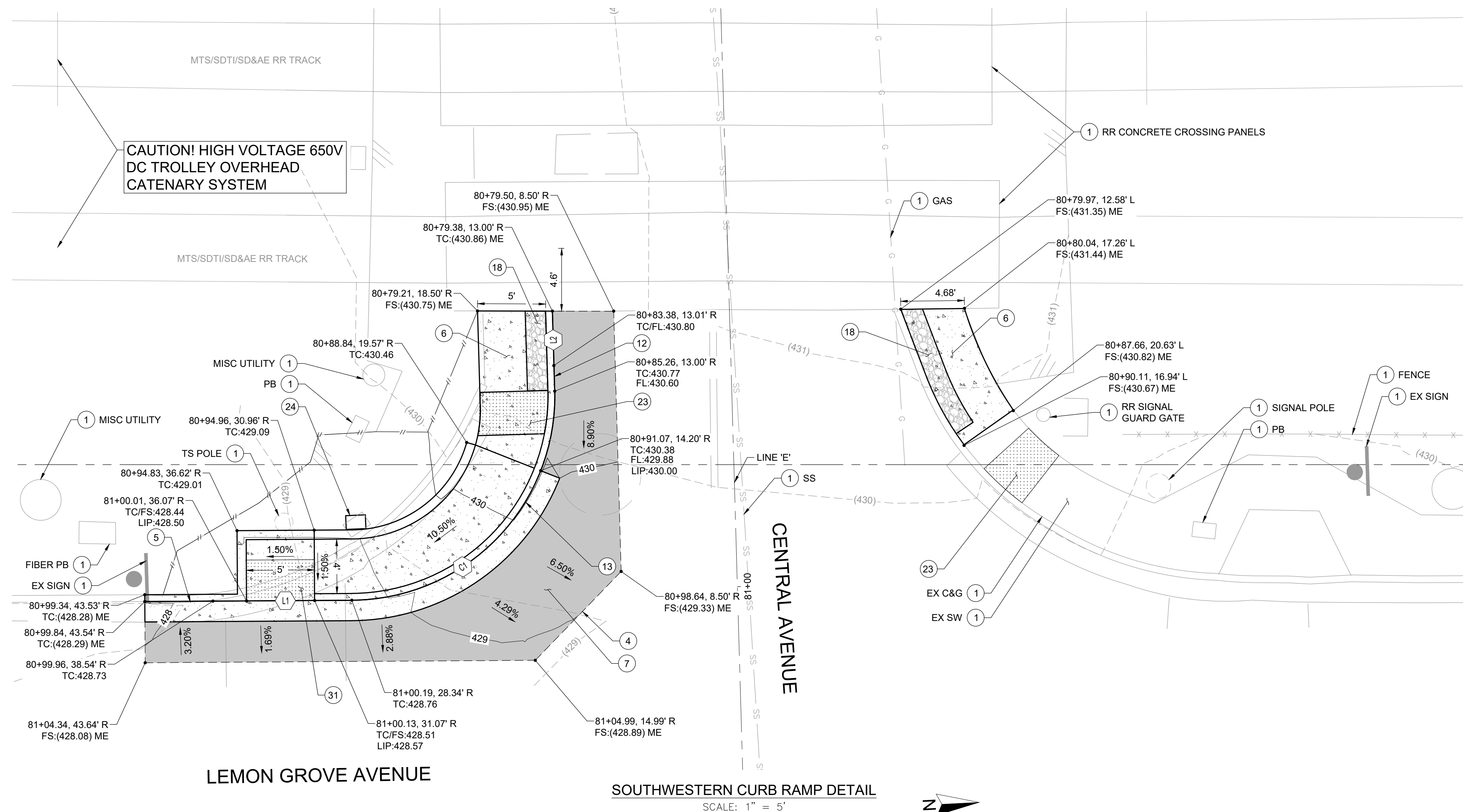
PROPERTY LINE	---
SAWCUT LINE	----
DAYLIGHT LINE	- - -
EXISTING FENCE LINE	-x-x-x-

CONSTRUCTION NOTES

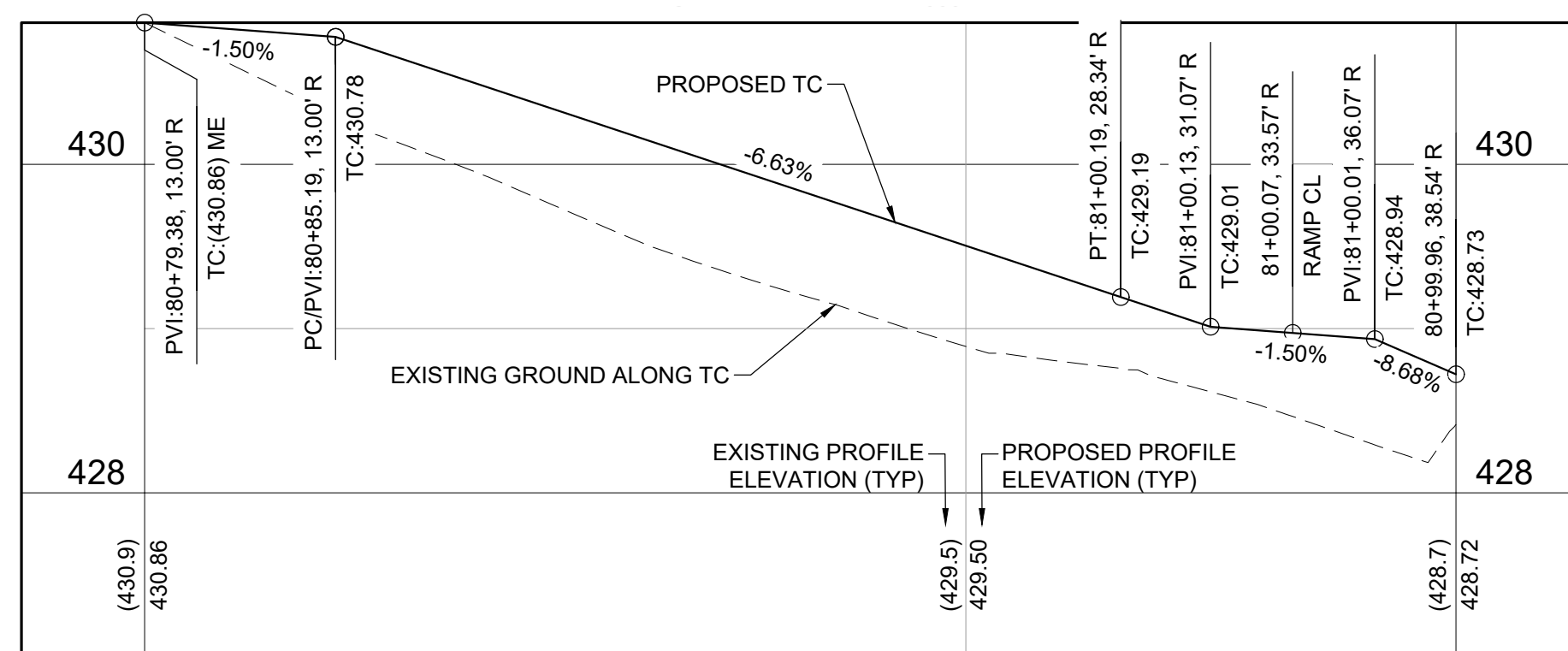
- ① PROTECT IN PLACE
- ④ SAWCUT PER DETAIL A ON SHEET 19
- ⑤ TRANSITION TO EXISTING CURB / CURB & GUTTER PER DETAIL B ON SHEET 19
- ⑥ CONSTRUCT 4" PCC SIDEWALK PER SDRSD G-07
- ⑦ CONSTRUCT HMA PAVEMENT, 4" HMA OVER 6" CLASS 2 AGGREGATE BASE
- ⑫ CONSTRUCT 6" CURB PER SDRSD G-01
- ⑬ CONSTRUCT TYPE G 6" CURB & GUTTER PER SDRSD G-02
- ⑱ CONSTRUCT EPOXY PEBBLE STABILIZED SURFACE PER DETAIL E ON SHEET 19
- ⑳ CONSTRUCT TRUNCATED DOMES PER SDRSD G-30
- ㉔ SEE TRAFFIC SIGNAL PLANS
- ㉓ CONSTRUCT MODIFIED ADA RAMP PER SDRSD G-29

GENERAL IMPROVEMENT NOTES

- 1. 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.
- 2. SEE CONSTRUCTION DETAIL PLANS FOR PROPOSED GEOMETRY AND ADDITIONAL DESIGN INFORMATION.
- 3. SEE DRAINAGE PLAN SHEETS FOR STORM DRAIN IMPROVEMENTS.
- 4. SEE TRAFFIC SIGNAL PLANS, PAVEMENT MARKING PLANS, AND SIGNAGE PLANS FOR REMOVAL, RELOCATION AND/OR ADJUSTMENTS OF TRAFFIC RELATED IMPROVEMENTS.
- 5. SEE LANDSCAPING PLANS FOR LANDSCAPE IMPROVEMENTS.
- 6. CONCRETE SHALL BE SAWCUT AND REMOVED TO THE NEAREST JOINT.
- 7. ALL PROPOSED SIDEWALK SHALL MATCH EXISTING SIDEWALK PATTERN, COLOR, AND FINISH.
- 8. CONTRACTOR SHALL EXPOSE ALL WATER VALVES TO KEEP VALVES ACCESSIBLE DURING PAVING OPERATIONS.

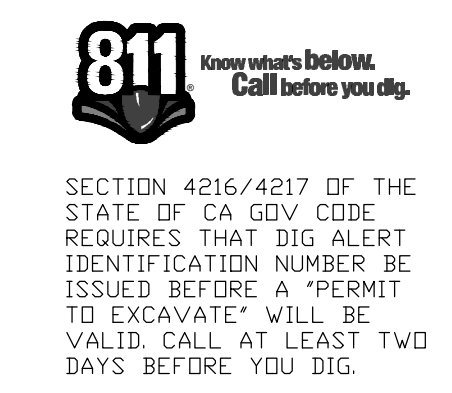


SOUTHWESTERN CURB RAMP DETAIL
SCALE: 1" = 5'



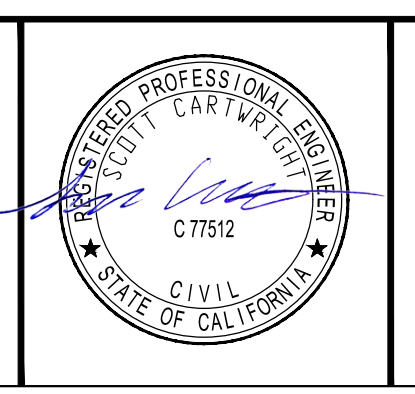
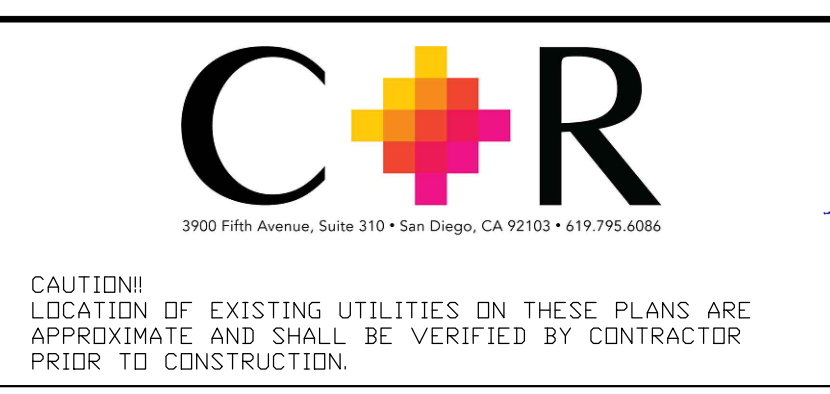
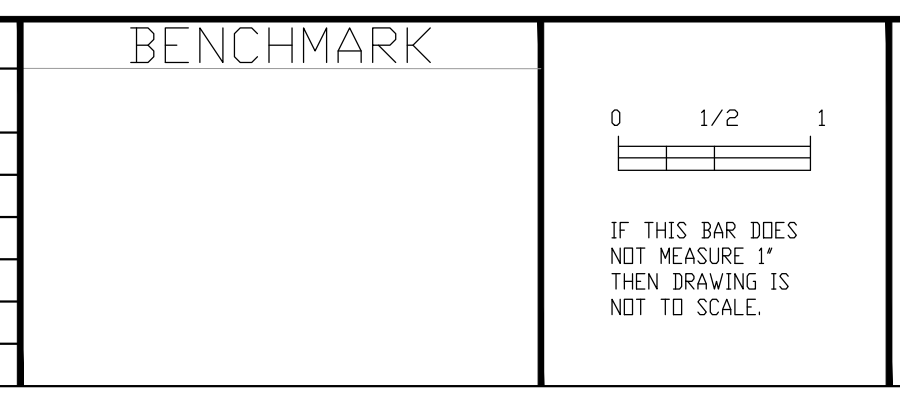
SOUTHWESTERN CURB RAMP TC
HORIZ: 1" = 5'
VERT: 1" = 1'

GEOMETRIC CURB DATA						
LINE	LENGTH	LINE/CHORD DIRECTION	R	T	DELTA	REMARKS
L1	15.21'	S02°38'27"W				6" CURB PER SDRSD G-01
C1	23.90'	S43°00'25"E	15.00'	15.34'	91°17'45"	6" CURB AND GUTTER PER SDRSD G-02
L2	5.81'	S88°39'17"E				6" CURB AND GUTTER PER SDRSD G-02

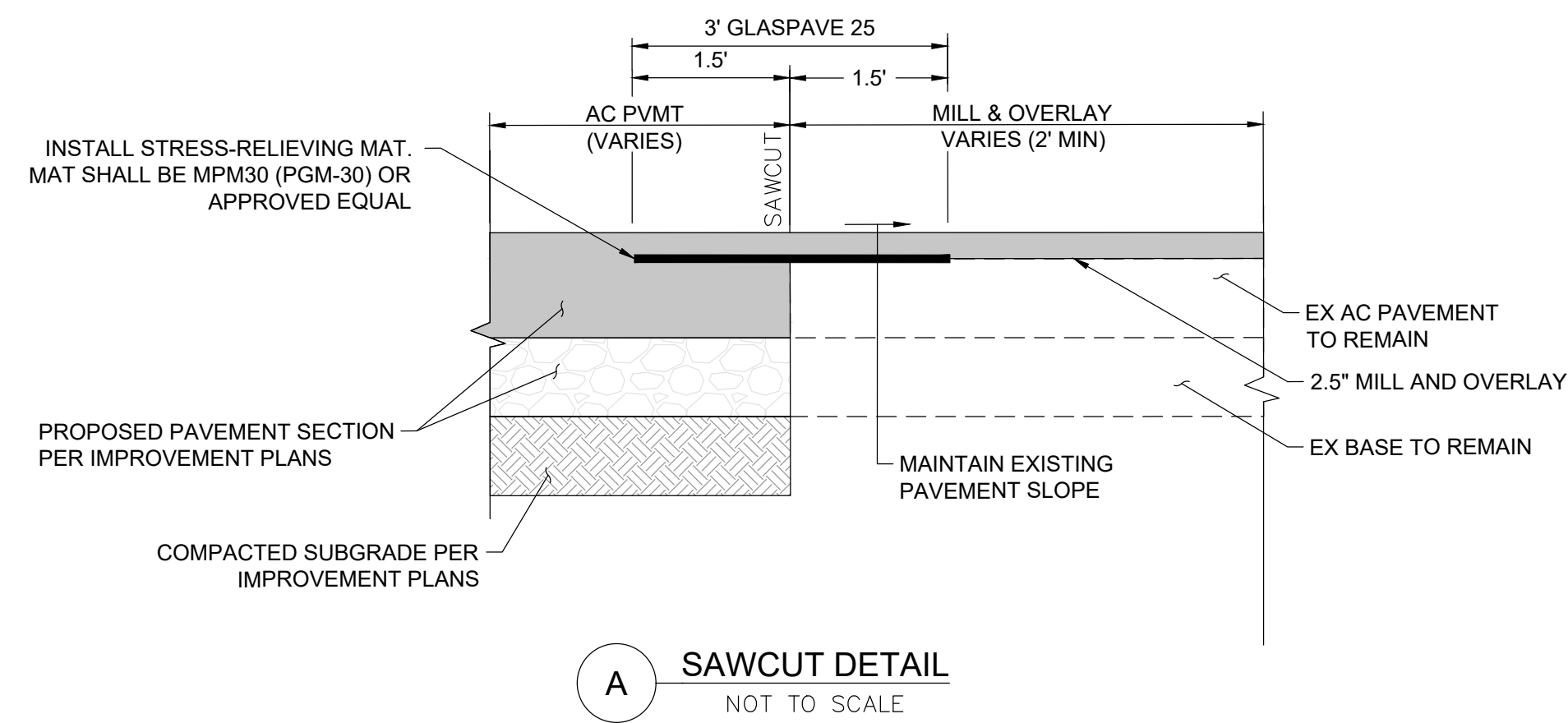


INTERSECTION DETAILS FOR:			
CONNECT MAIN STREET PHASES 1 & 2			
CITY OF LEMON GROVE, CALIFORNIA		7/20/23	
DEVELOPMENT SERVICES DEPARTMENT		DATE	
SHEET 18 OF 44 SHEETS		TM/TPM	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	CRA		
AS-BUILTS			
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		1848-6321 NAD83 COORDINATES	
		206-1755 & 210-1755 LAMBERT COORDINATES	
		R23-01-18	

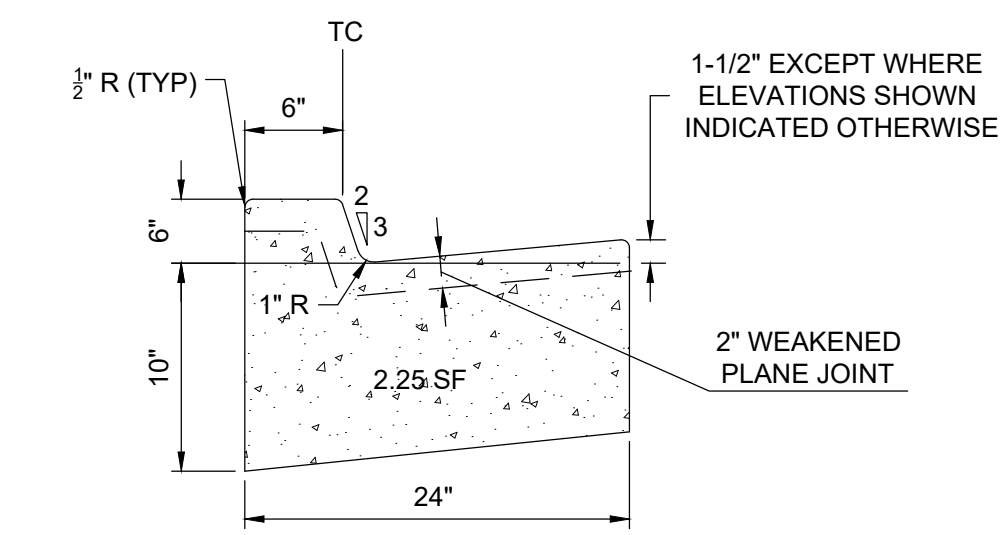
CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS



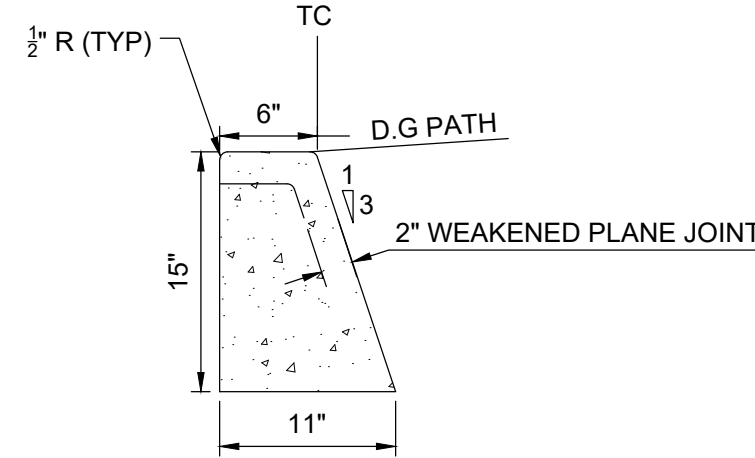
STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50



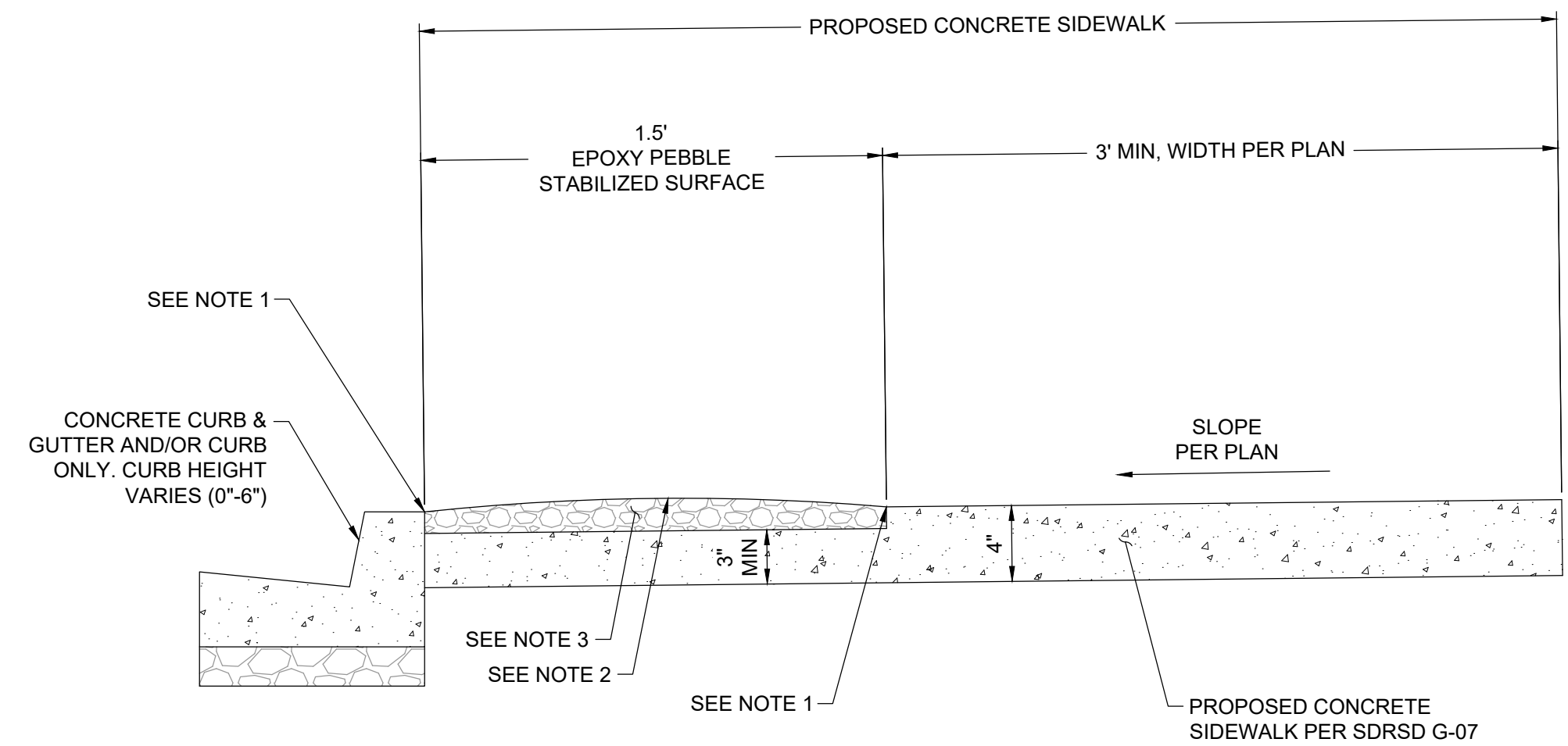
A SAWCUT DETAIL
NOT TO SCALE



C 6" THICKENED CURB & GUTTER
NOT TO SCALE

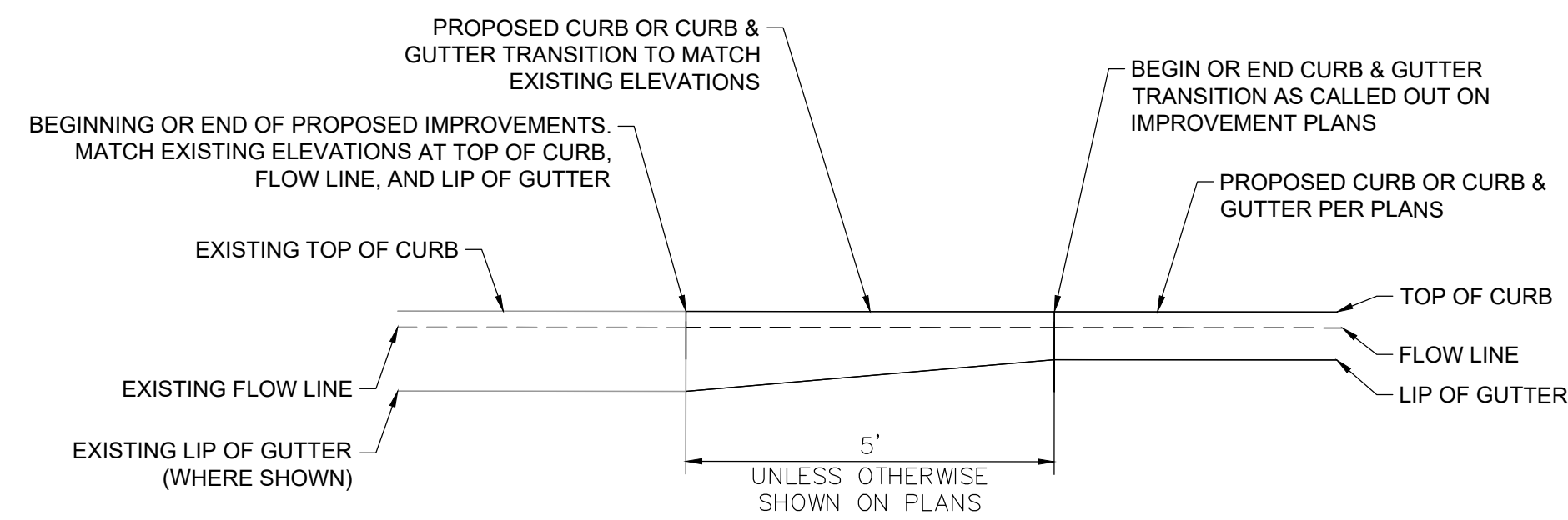
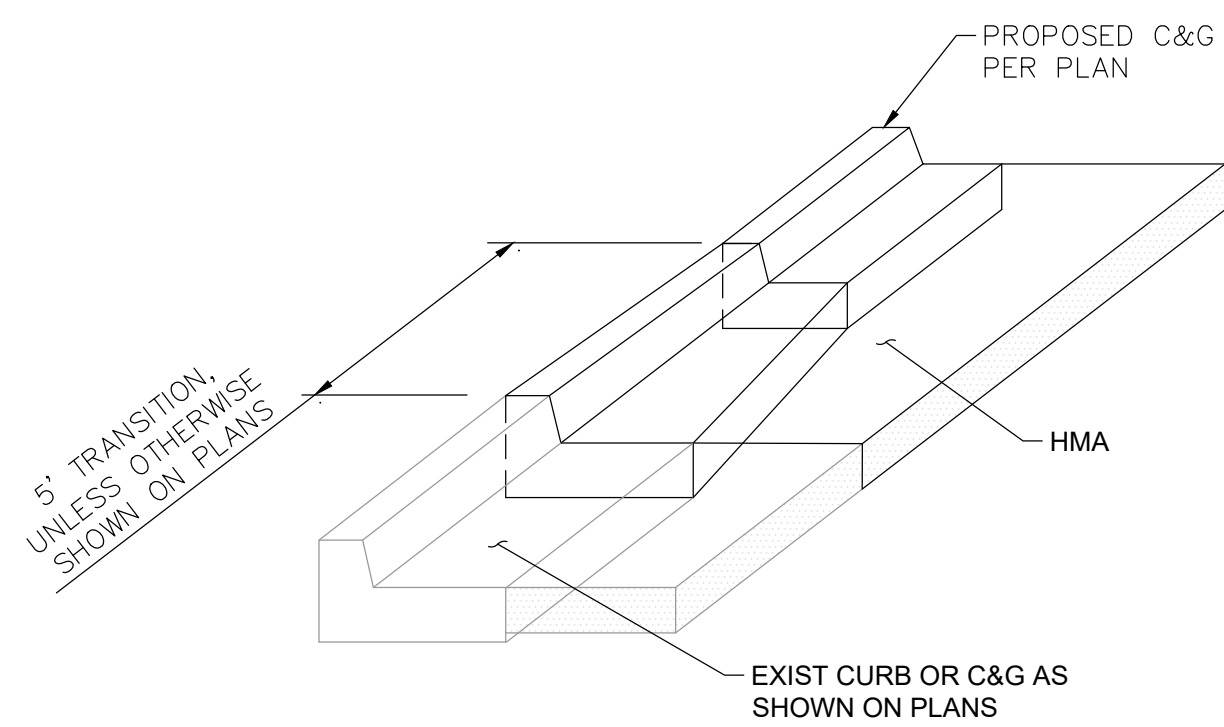


D MODIFIED 0" CURB
NOT TO SCALE

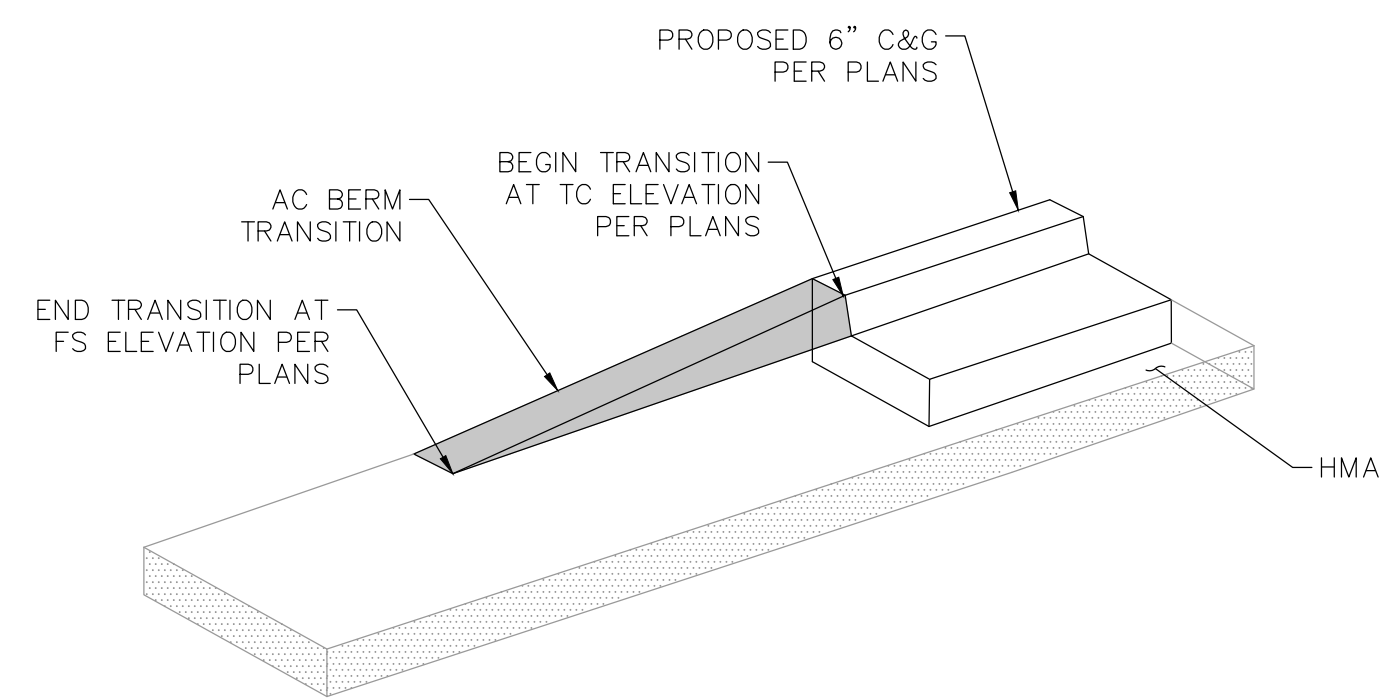


- NOTES:**
1. EDGES OF EPOXY PEBBLE STABILIZED SURFACE SHALL BE FLUSH WITH ADJACENT CONCRETE SURFACING FOR NEW SIDEWALK AND CURB.
 2. MATERIAL USED FOR EPOXY PEBBLE STABILIZED SURFACE SHALL BE PER TECHNICAL SPECIFICATIONS. MATERIAL SHALL BE MOUNDED (1/2" MAX AT CENTER) ABOVE FINISHED SURFACE.
 3. SIDEWALK CONCRETE POUR SHALL PROVIDE A FINISHED SLOT (W=18" & D=1") CAPABLE OF RECEIVING EPOXY PEBBLE STABILIZED SURFACE.

E EPOXY PEBBLE STABILIZED SURFACE
NOT TO SCALE



B CURB AND GUTTER TRANSITION
NOT TO SCALE



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.



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.

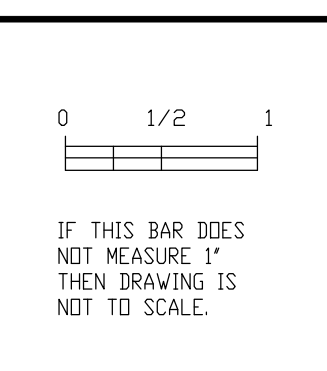
**CONSTRUCTION DETAILS FOR:
CONNECT MAIN STREET
PHASES 1 & 2**

CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 19 OF 44 SHEETS		DATE: 7/20/23	TM/TPM
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	CRA		
AS-BUILTS			1948-6321 NAD83 COORDINATES
CONTRACTOR			206-1755 & 210-1755 LAMBERT COORDINATES
INSPECTOR			R23-01-19

CONSTRUCTION CHANGE TABLE

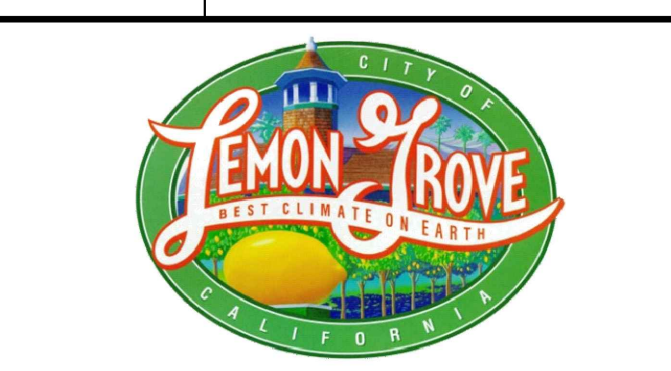
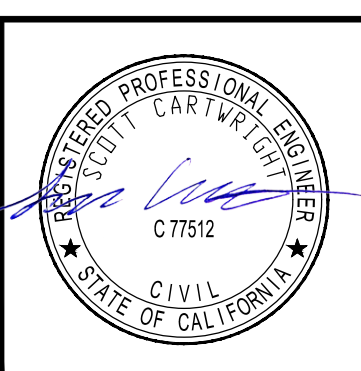
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

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.

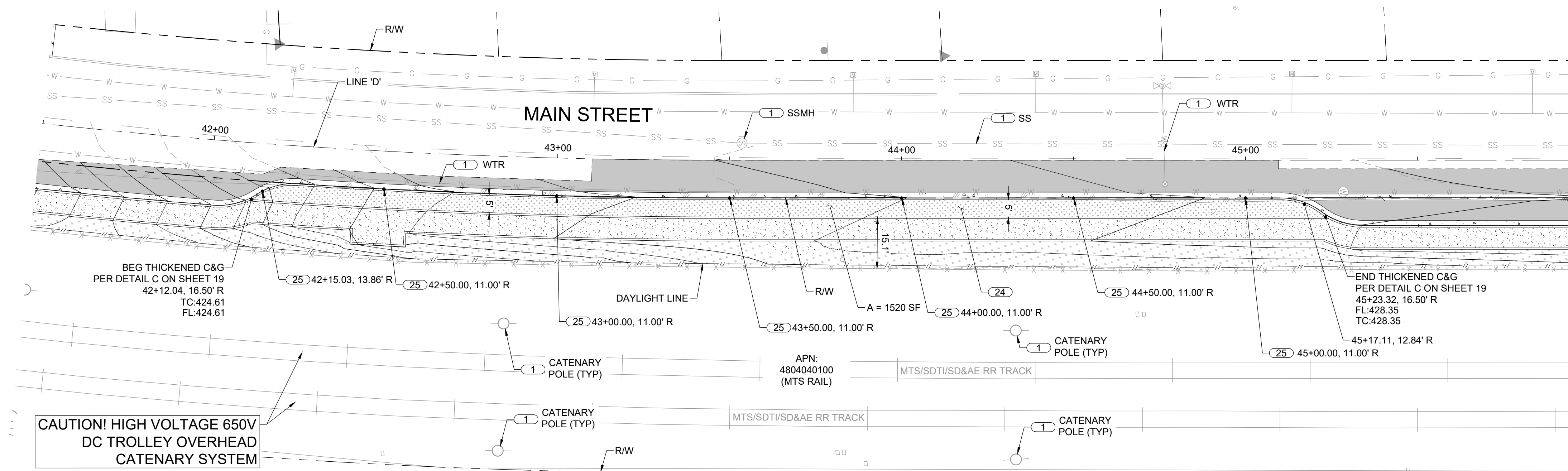


STREET DATA TABLE

STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50

CONSTRUCTION NOTES

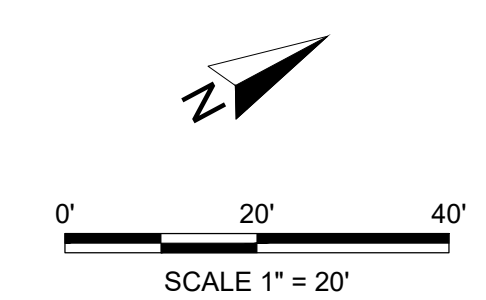
- ① PROTECT IN PLACE
- ②4 CONSTRUCT BMP PER DETAIL H ON SHEET 21
- ②5 CONSTRUCT CURB CUT INLET PER DETAIL G ON SHEET 21. CURB CUTS SHALL BE EVERY 50'.



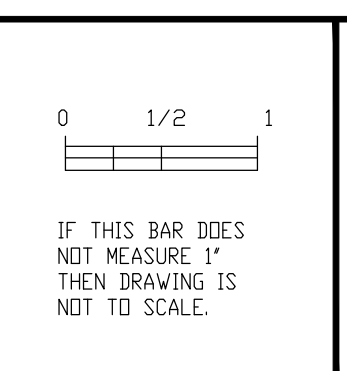
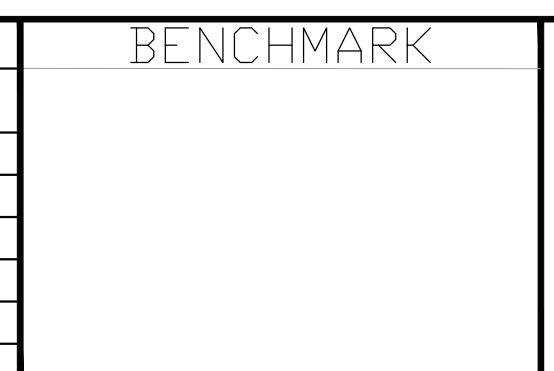
CAUTION! HIGH VOLTAGE 650V DC TROLLEY OVERHEAD CATENARY SYSTEM

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 AND BMP PLANS FOR:			
CONNECT MAIN STREET PHASES 1 & 2			
STA 41+50 TO STA 46+00			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 20 OF 44 SHEETS		DATE: 7/20/23	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	CRA		
AS-BUILTS			DATE STARTED
CONTRACTOR			DATE COMPLETED
INSPECTOR			
1848-6321 NAD83 COORDINATES			
206-1755 & 210-1755 LAMBERT COORDINATES			
R23-01-20			



CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS



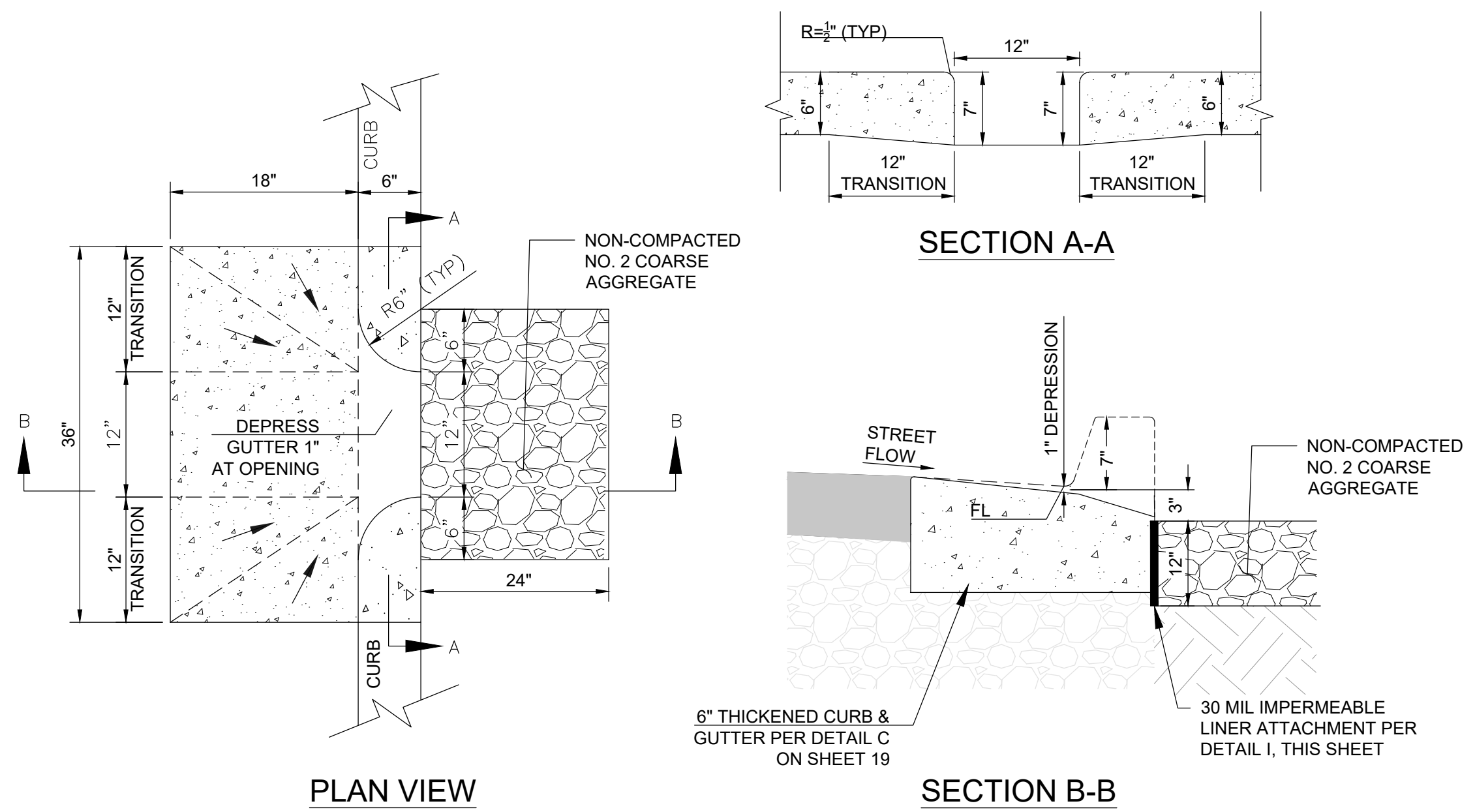
COR
3900 Fifth Avenue, Suite 310 • San Diego, CA 92103 • 619.795.6086

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

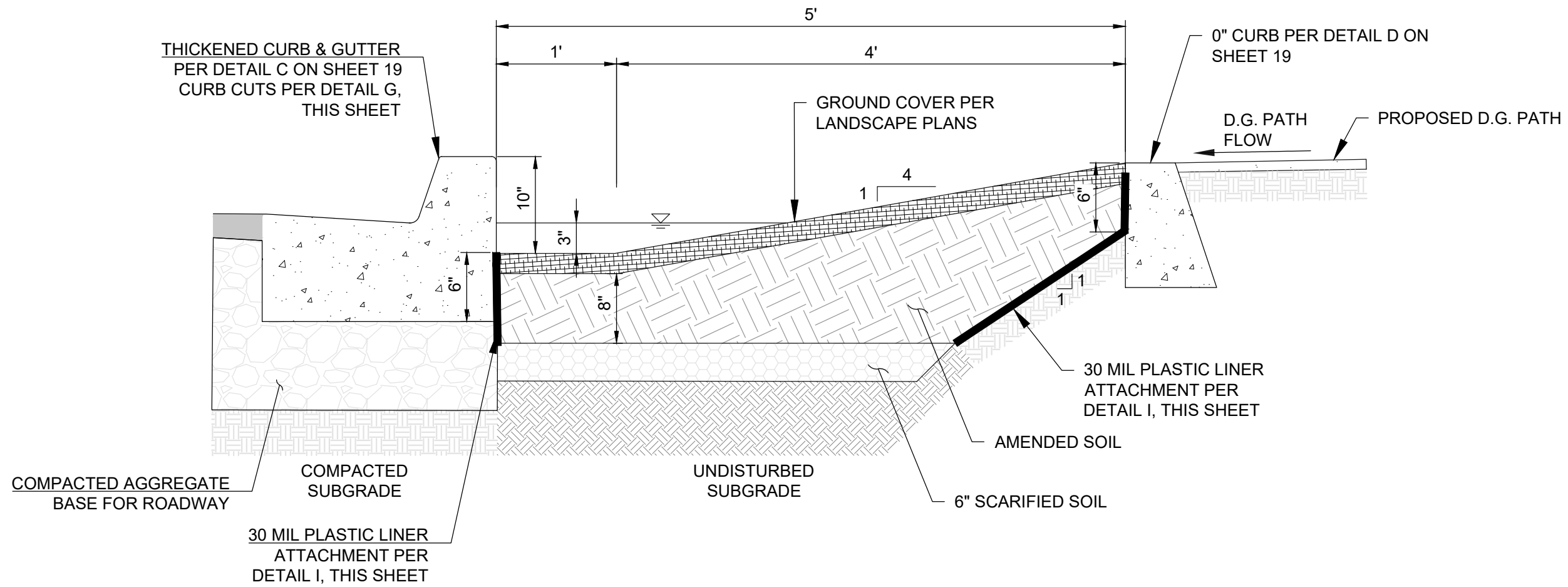


STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50

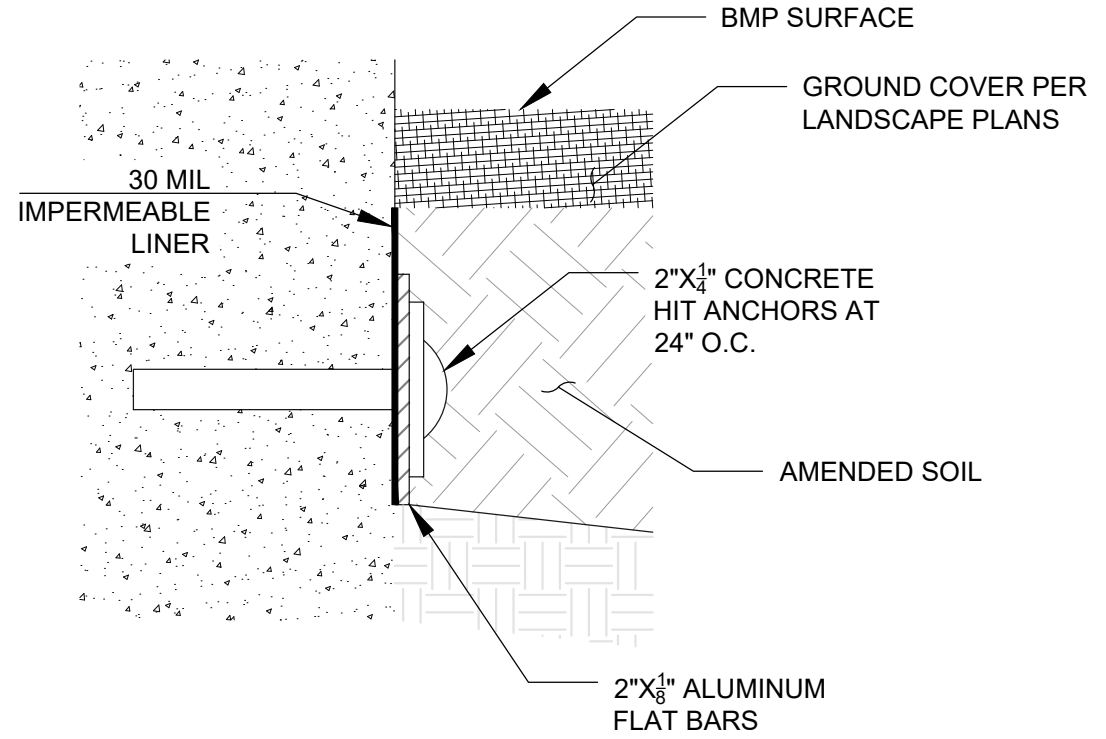
FINAL CONSTRUCTION DRAWINGS



G CURB CUT DETAIL
NOT TO SCALE



H DISPERSION AREA
NOT TO SCALE



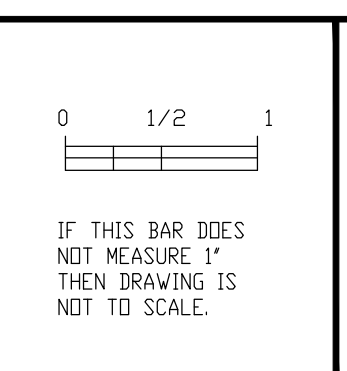
I IMPERMEABLE LINER CONNECTION
NOT TO SCALE

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 AND BMP DETAILS FOR: CONNECT MAIN STREET PHASES 1 & 2			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 21 OF 44 SHEETS		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	
		R23-01-21	

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK

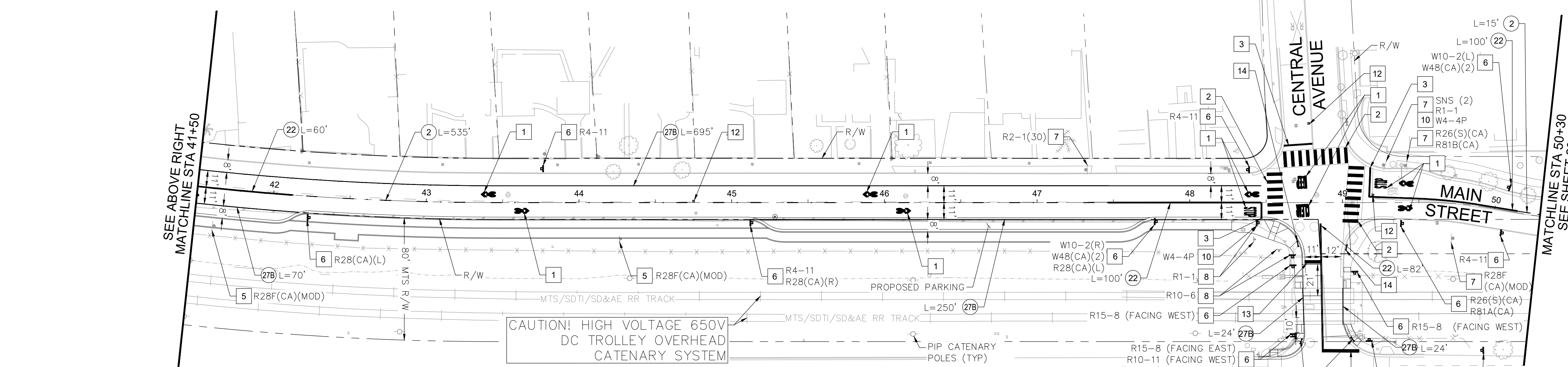
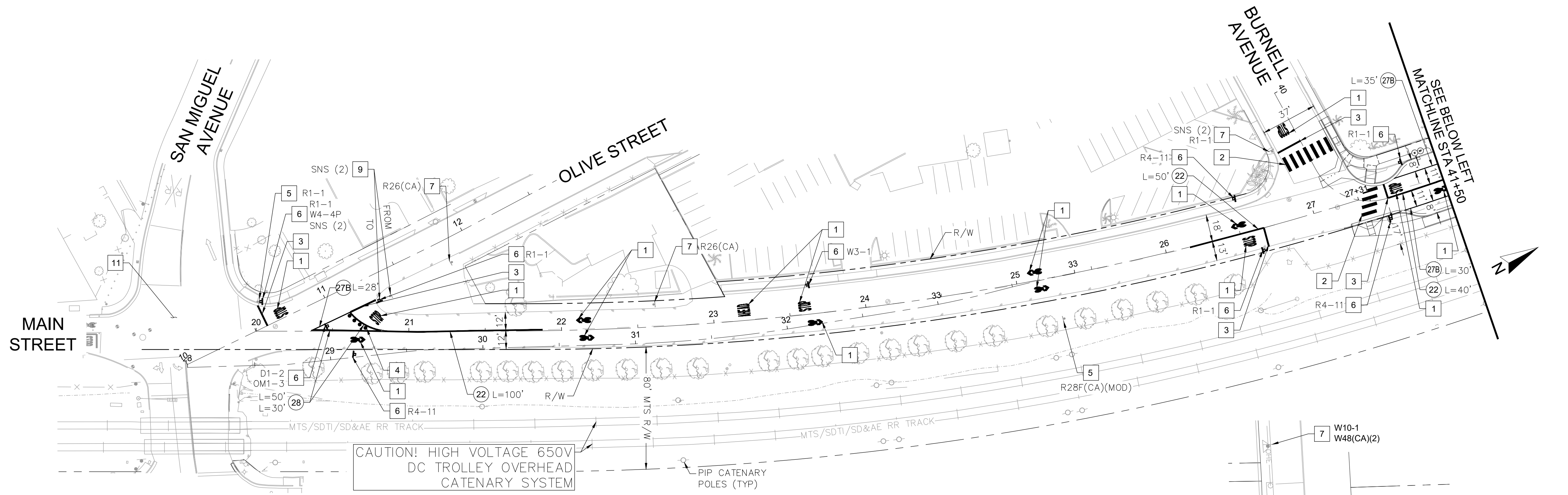


C R
 3900 Fifth Avenue, Suite 310 • San Diego, CA 92103 • 619.795.6086
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STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50

FINAL CONSTRUCTION DRAWINGS



- ### LEGEND
- (XX') EXISTING LANE WIDTH
 - XX' NEW LANE WIDTH OR LENGTH OF NEW STRIPING
 - (XX) STRIPING DETAIL PER LATEST CALTRANS STANDARD PLANS
 - (TS) EXISTING TRAFFIC SIGNAL
 - 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 SHEET 23
 - "KEEP" PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24E
 - "CLEAR" PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24E
 - RR GRADE CROSSING PAVEMENT MARKINGS PER CALTRANS STANDARD PLAN A24B
 - 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.

SIGNING AND MARKING NOTES

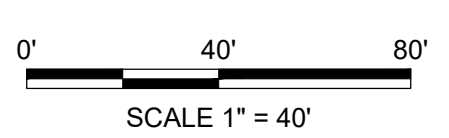
- | | |
|--|--|
| 1 FURNISH AND INSTALL THERMOPLASTIC PAVEMENT MARKING PER CALTRANS STD PLAN. SEE LEGEND | 8 EXISTING SIGN AND POST TO BE RELOCATED |
| 2 FURNISH AND INSTALL 2'x10' WHITE (UNLESS NOTED OTHERWISE) THERMOPLASTIC CONTINENTAL CROSSWALK AT 5' INTERVALS CENTER TO CENTER PER CALTRANS STANDARD PLAN RSP A24F | 9 EXISTING SIGN PANEL TO BE RELOCATED |
| 3 FURNISH AND INSTALL 12" WHITE THERMOPLASTIC LIMIT LINE MINIMUM 4' FROM CROSSWALK WHERE SHOWN | 10 FURNISH AND INSTALL NEW SIGN ON EXISTING SIGN POST |
| 4 FURNISH AND INSTALL CLASS I DELINEATORS AT 5' SPACING PER CALTRANS STD PLAN A73C | 11 SEE PHASE 3 SIGNING AND PAVEMENT MARKING PLANS FOR DETAILS NOT SHOWN |
| 5 EXISTING SIGN TO BE REMOVED AND SALVAGED. DELIVER TO CITY OF LEMON GROVE. | 12 FURNISH AND INSTALL TYPE D BLUE RETROREFLECTIVE PAVEMENT MARKER 6" FROM CENTER LINE |
| 6 FURNISH AND INSTALL NEW SIGN ON BREAK-AWAY POST PER SDSRD M-45 UNLESS OTHERWISE SHOWN | 13 FURNISH AND INSTALL 24" WHITE THERMOPLASTIC LINE |
| 7 EXISTING SIGN TO REMAIN | 14 FURNISH AND INSTALL R49(CA) SIGNS BACK TO BACK ON TYPE I PEDESTRIAN BARRICADE PER CALTRANS STD PLAN ES-70 |

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
- 27B INSTALL WHITE RIGHT EDGELINE (DETAIL 27B) PER CALTRANS STD. PLAN RSP A20B
- 28 INSTALL YELLOW MEDIAN STRIPE (DETAIL 28) PER CALTRANS STD. PLAN RSP A20B



D1-2
NOT TO SCALE

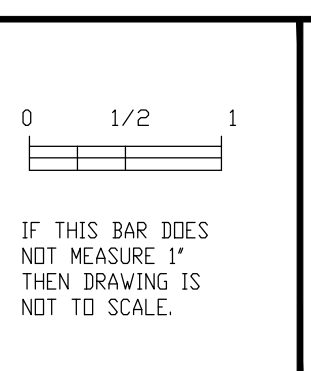


811 Know what's below. Call before you dig.

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	
NO.	DESCRIPTION



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, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50

SIGNING AND PAVEMENT MARKING PLANS FOR: CONNECT MAIN STREET PHASES 1 & 2 SAN MIGUEL AVE TO CENTRAL AVE

CITY OF LEMON GROVE, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 22 OF 44 SHEETS

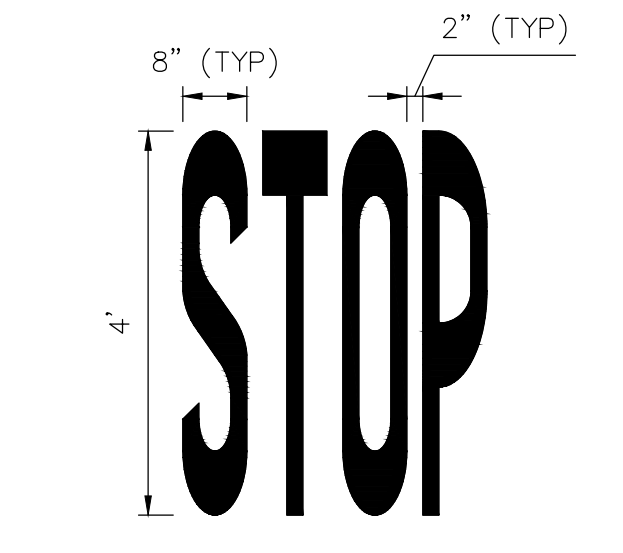
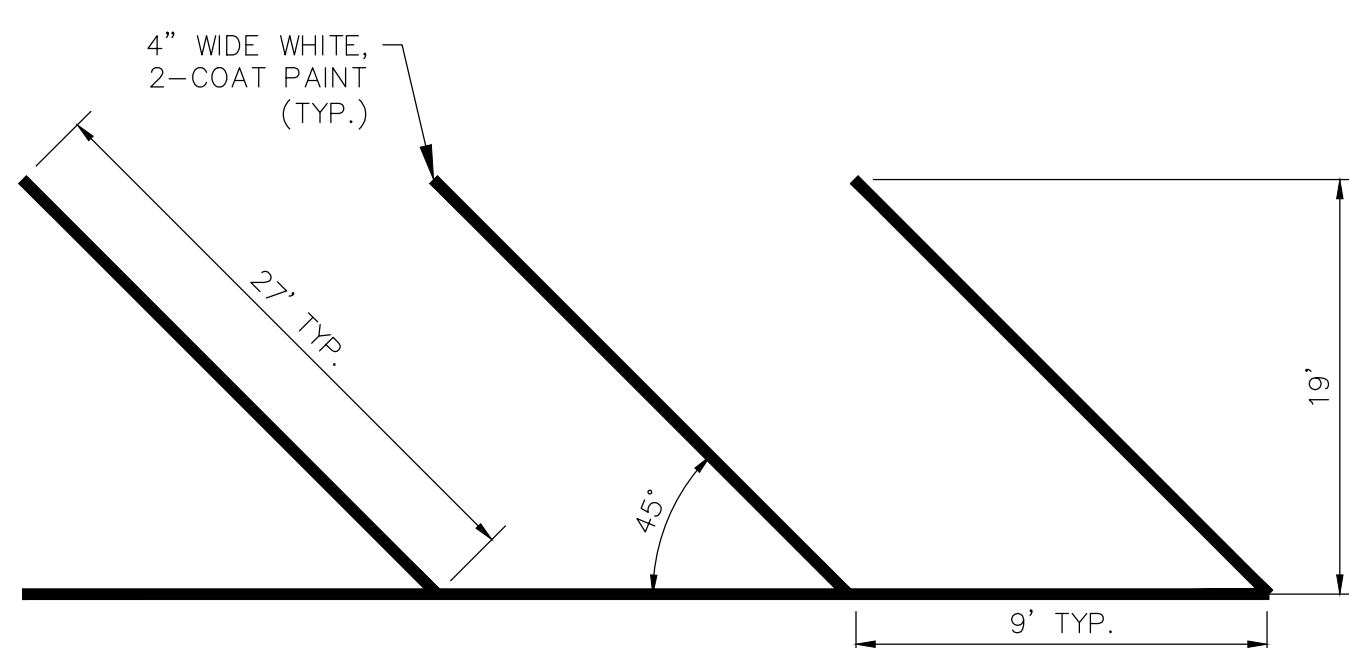
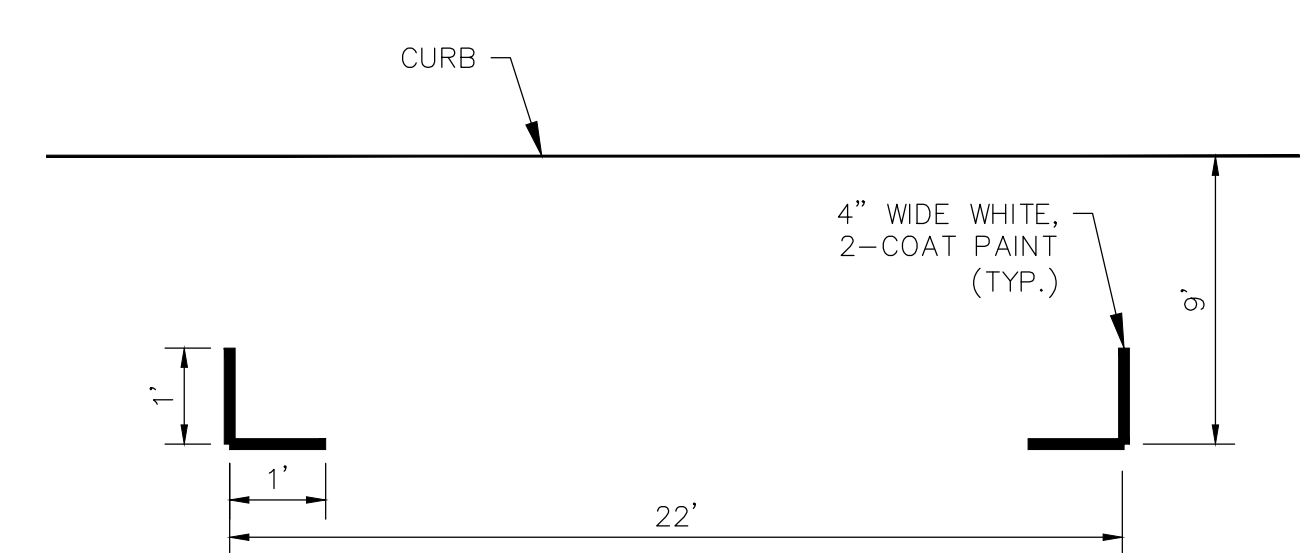
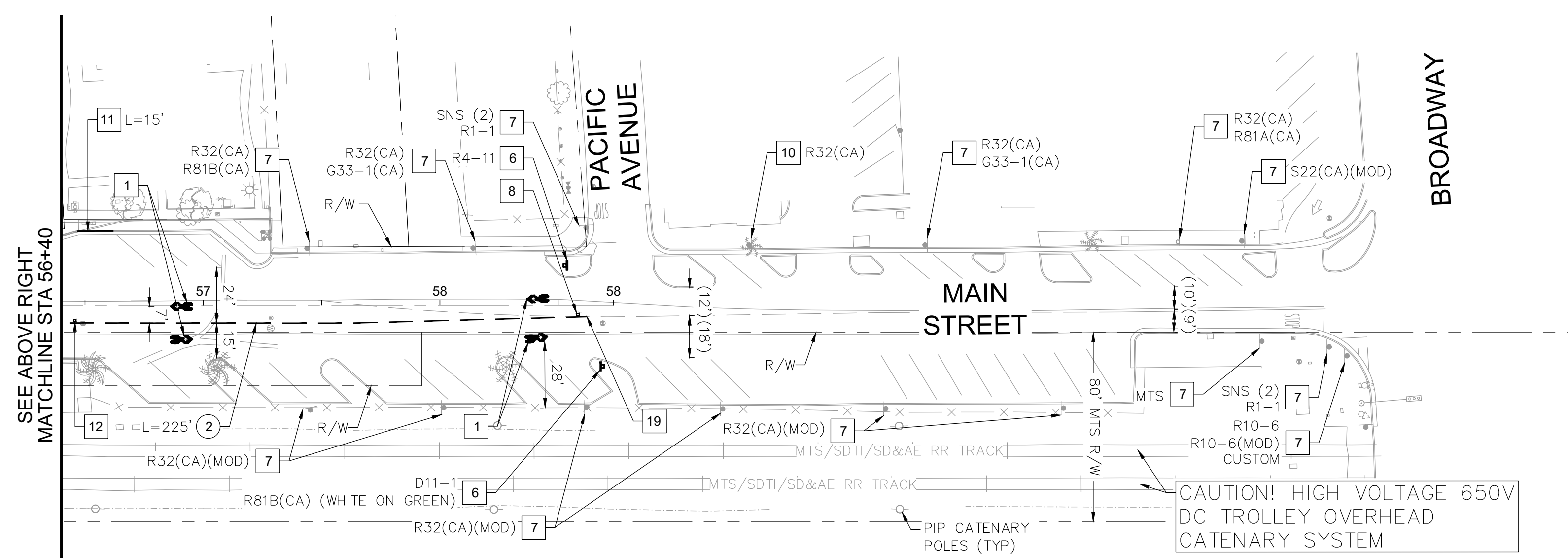
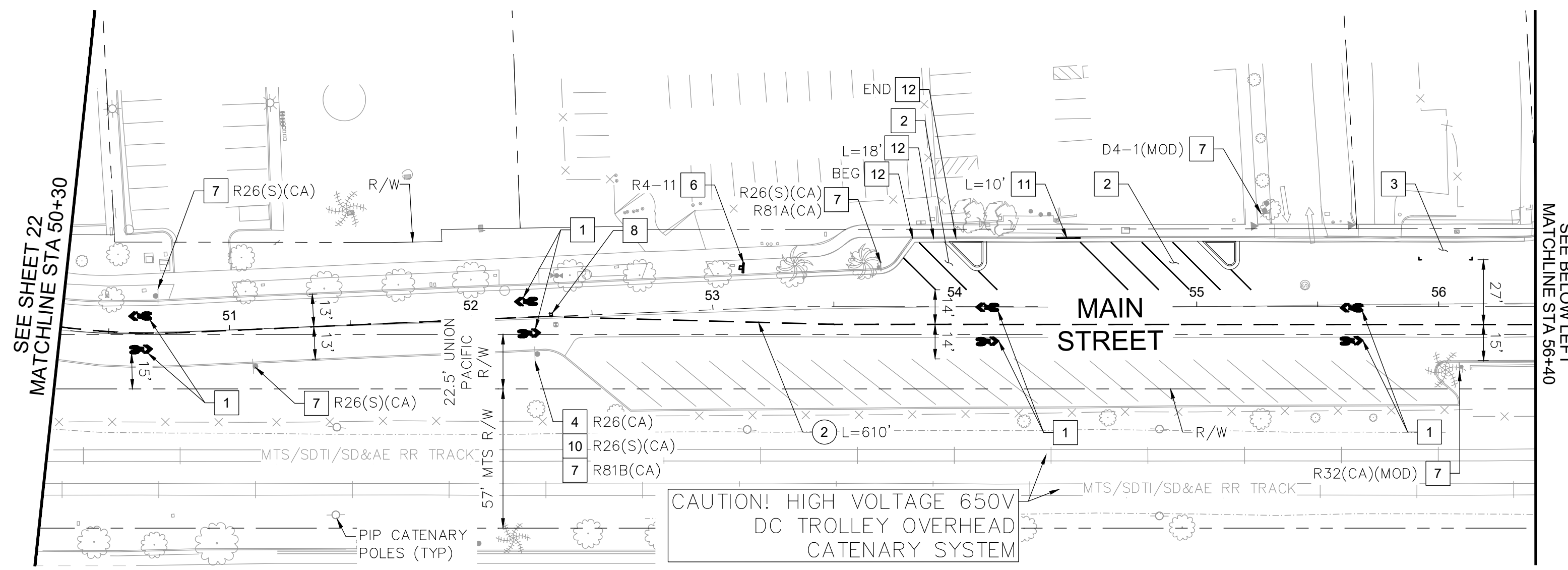
DATE	7/20/23	TM/TPM	
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	CRA		
AS-BUILTS			
CONTRACTOR	DATE STARTED		
INSPECTOR	DATE COMPLETED		

1848-6321
NAD83 COORDINATES

206-1755 & 210-1755
LAMBERT COORDINATES

R23-01-22

FINAL CONSTRUCTION DRAWINGS



- ### 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
 - "KEEP" PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24E
 - "CLEAR" PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24E

- ### 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.

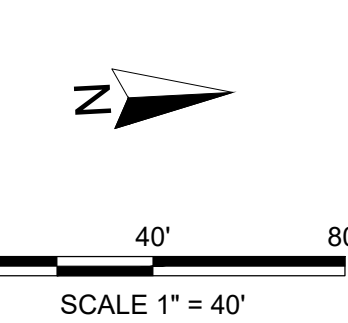
SIGNING AND MARKING NOTES

- | | |
|---|---|
| 1 FURNISH AND INSTALL THERMOPLASTIC PAVEMENT MARKING PER CALTRANS STD PLAN. SEE LEGEND | 7 EXISTING SIGN TO REMAIN |
| 2 FURNISH AND INSTALL ANGLED PARKING STALLS PER DETAIL THIS SHEET | 8 FURNISH AND INSTALL TYPE D BLUE RETROREFLECTIVE PAVEMENT MARKER 6" FROM CENTER LINE |
| 3 FURNISH AND INSTALL PARALLEL PARKING STALL PER DETAIL THIS SHEET | 9 CONFORM TO EXISTING STRIPING |
| 4 EXISTING SIGN PANEL TO BE REMOVED AND SALVAGED. DELIVER TO CITY OF LEMON GROVE | 10 FURNISH AND INSTALL NEW SIGN ON EXISTING POST |
| 5 EXISTING SIGN TO BE REMOVED AND SALVAGED. DELIVER TO CITY OF LEMON GROVE | 11 FURNISH AND INSTALL RED PAINTED CURB |
| 6 FURNISH AND INSTALL NEW SIGN ON BREAK-AWAY POST PER SDRSD M-45 UNLESS OTHERWISE SHOWN | 12 REMOVE RED PAINTED CURB |

STRIPING DETAILS

- 2 INSTALL YELLOW CENTERLINE (DETAIL 2) PER CALTRANS STD. PLAN RSP. A20A

"STOP" PAVEMENT MARKING FOR BIKE LANE
NOT TO SCALE

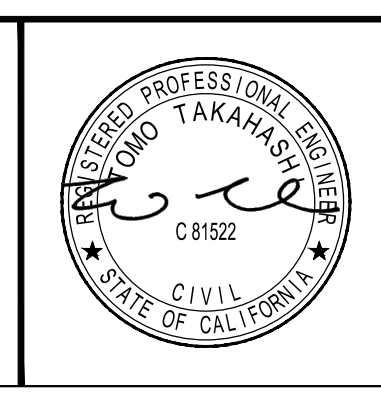
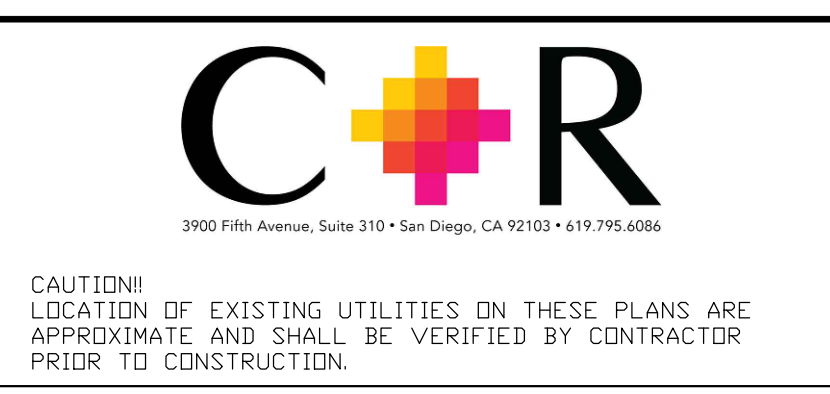
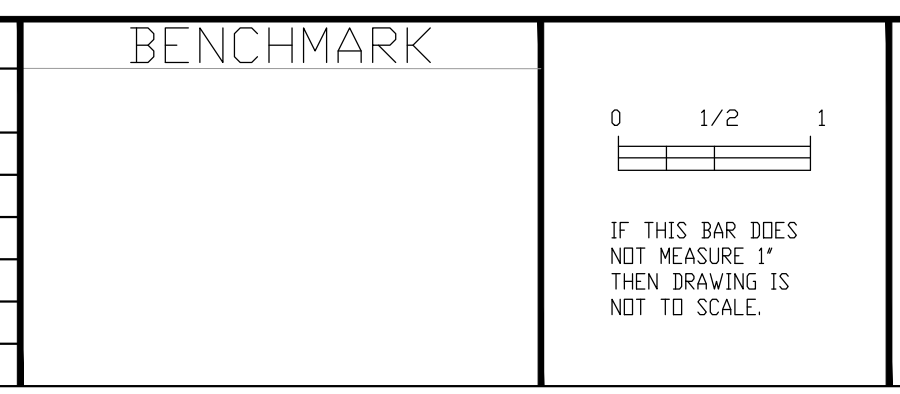


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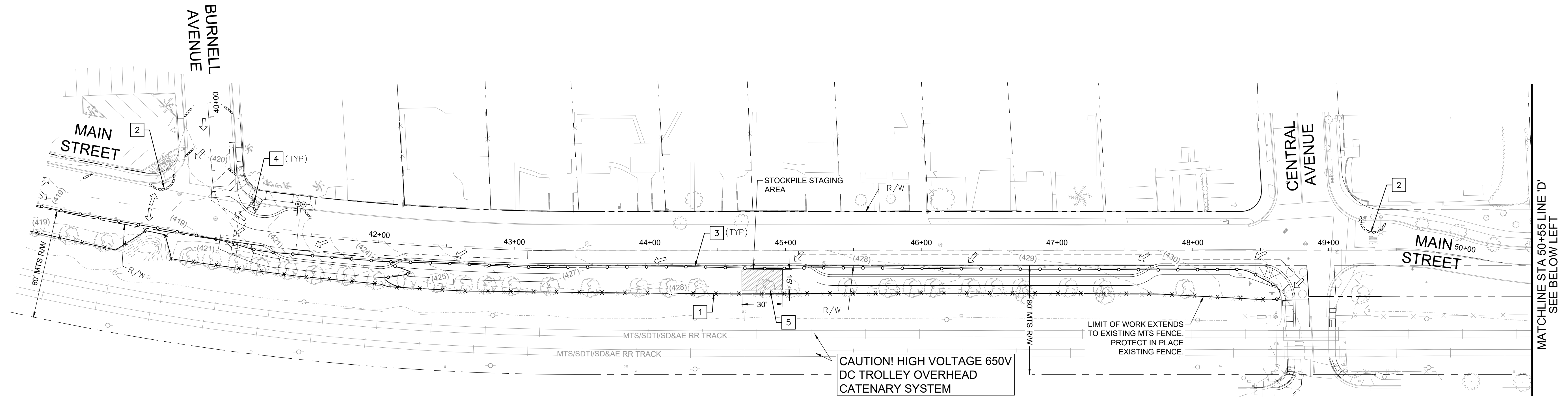
SIGNING AND PAVEMENT MARKING PLANS FOR:				
CONNECT MAIN STREET PHASES 1 & 2				
CENTRAL AVE TO BROADWAY				
CITY OF LEMON GROVE, CALIFORNIA		DEVELOPMENT SERVICES DEPARTMENT		
SHEET 23 OF 44 SHEETS		DATE: 7/20/23		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	CRA			
AS-BUILTS				
CONTRACTOR		DATE STARTED		
INSPECTOR		DATE COMPLETED		
		1848-6321 NAD83 COORDINATES		
		206-1755 & 210-1755 LAMBERT COORDINATES		
		R23-01-23		

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, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50

FINAL CONSTRUCTION DRAWINGS



LEGEND:

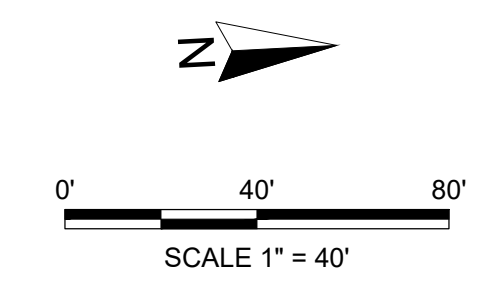
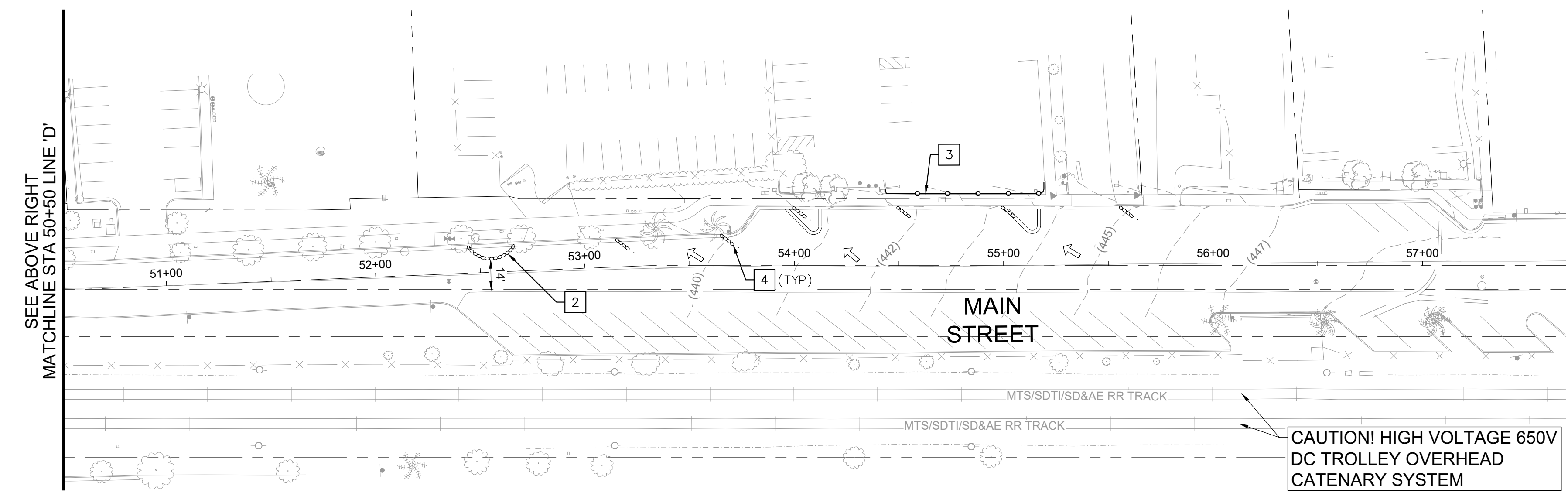
- FLOW DIRECTION
- GRAVEL BERM BAG
- SILT FENCE
- FIBER ROLLS
- EXISTING STORM DRAIN

EROSION CONTROL NOTES:

- 1 INSTALL SILT FENCE PER DETAIL A ON SHEET 25
- 2 INSTALL CURB INLET PROTECTION PER DETAIL B ON SHEET 25
- 3 INSTALL FIBER ROLLS PER DETAIL C ON SHEET 25
- 4 INSTALL GRAVEL BERM BAGS PER DETAIL D ON SHEET 25
- 5 INSTALL STOCK PILE PROTECTION PER DETAIL E ON SHEET 25

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



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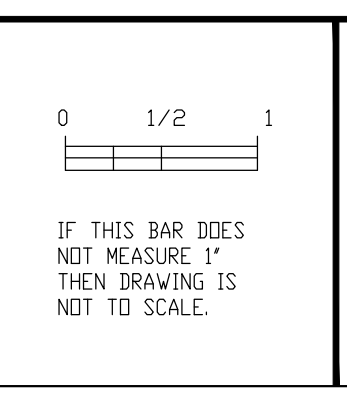
**TEMPORARY WATER POLLUTION CONTROL PLANS FOR:
CONNECT MAIN STREET
PHASES 1 & 2
STA 41+50 TO 57+68**

CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 24 OF 44 SHEETS		DATE: 7/20/23	TM/TPM
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	CRA		
AS-BUILTS			1848-6321 NAD83 COORDINATES
CONTRACTOR			206-1755 & 210-1755 LAMBERT COORDINATES
INSPECTOR			R23-01-24

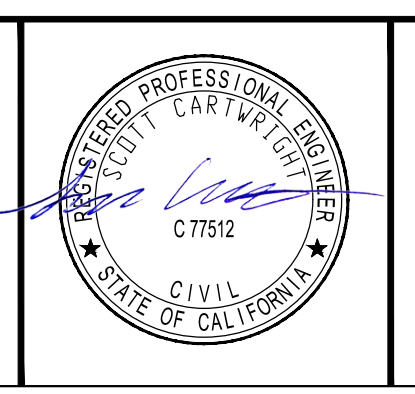
CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK

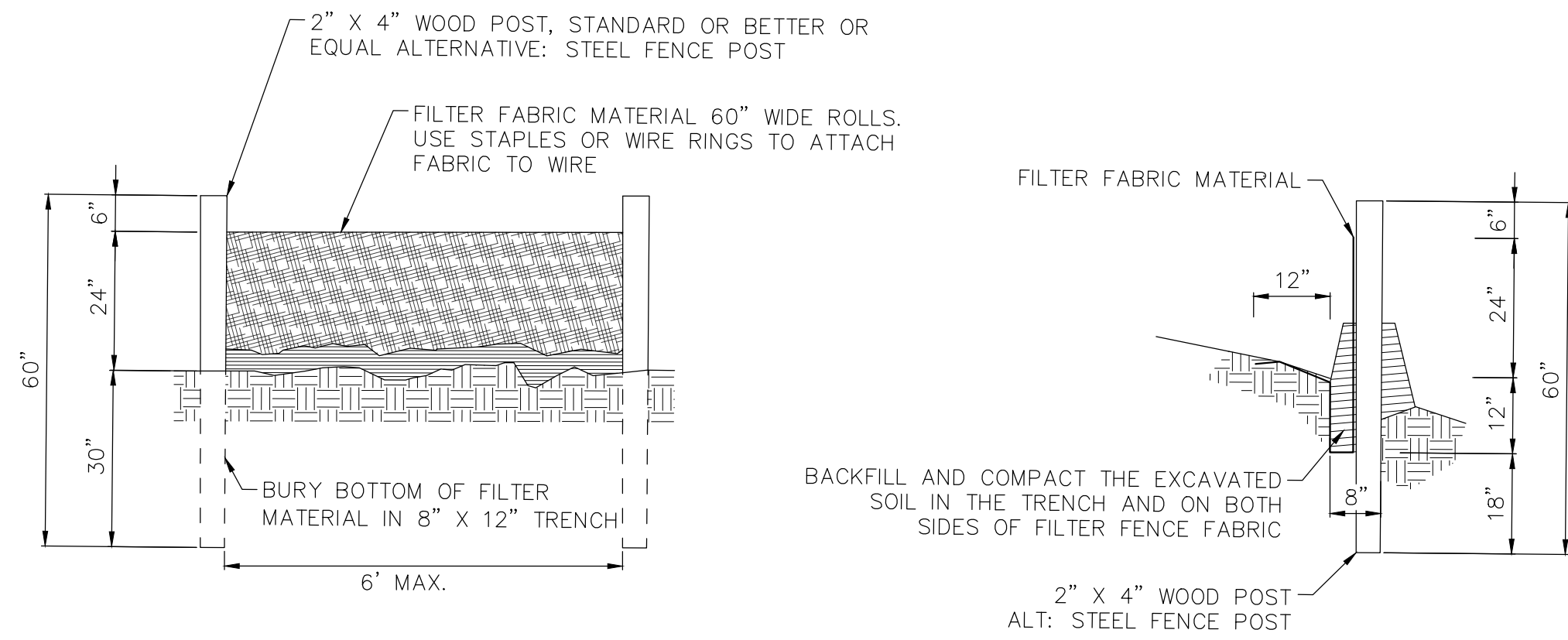


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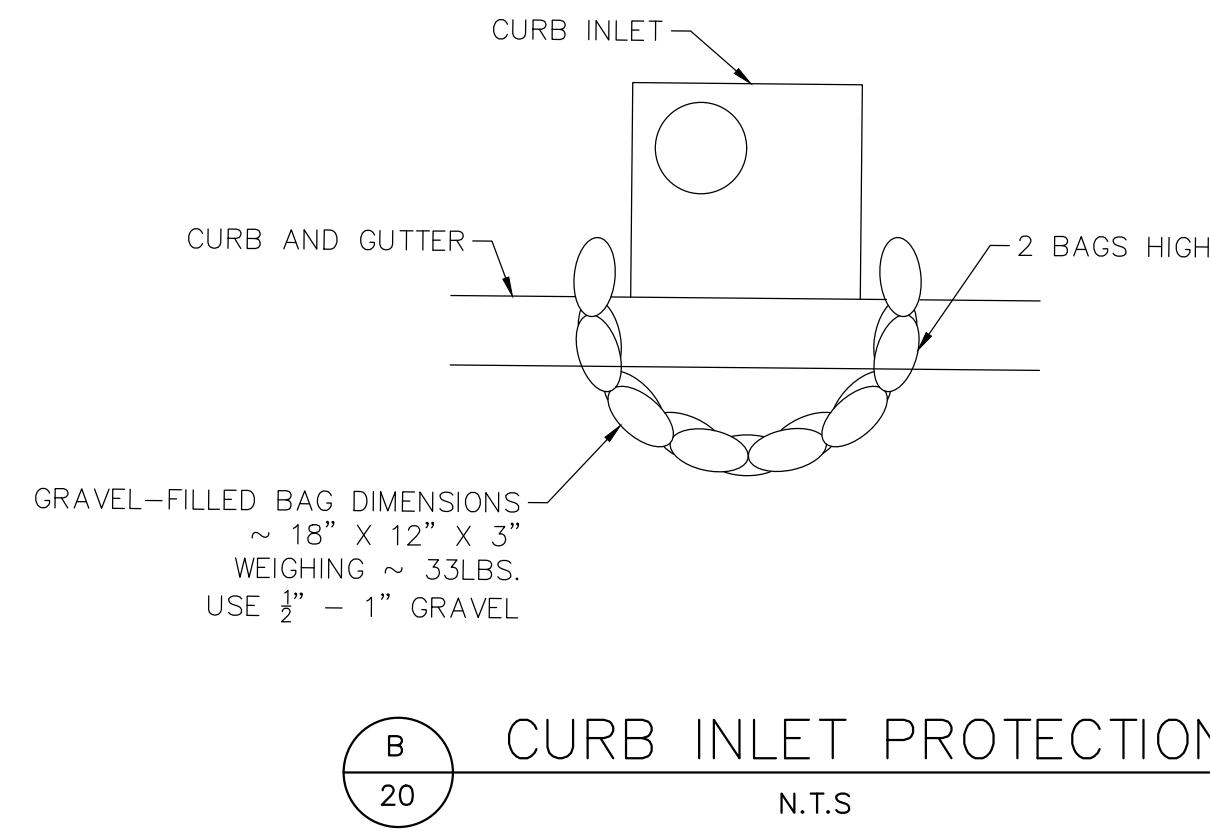
STREET DATA TABLE

STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
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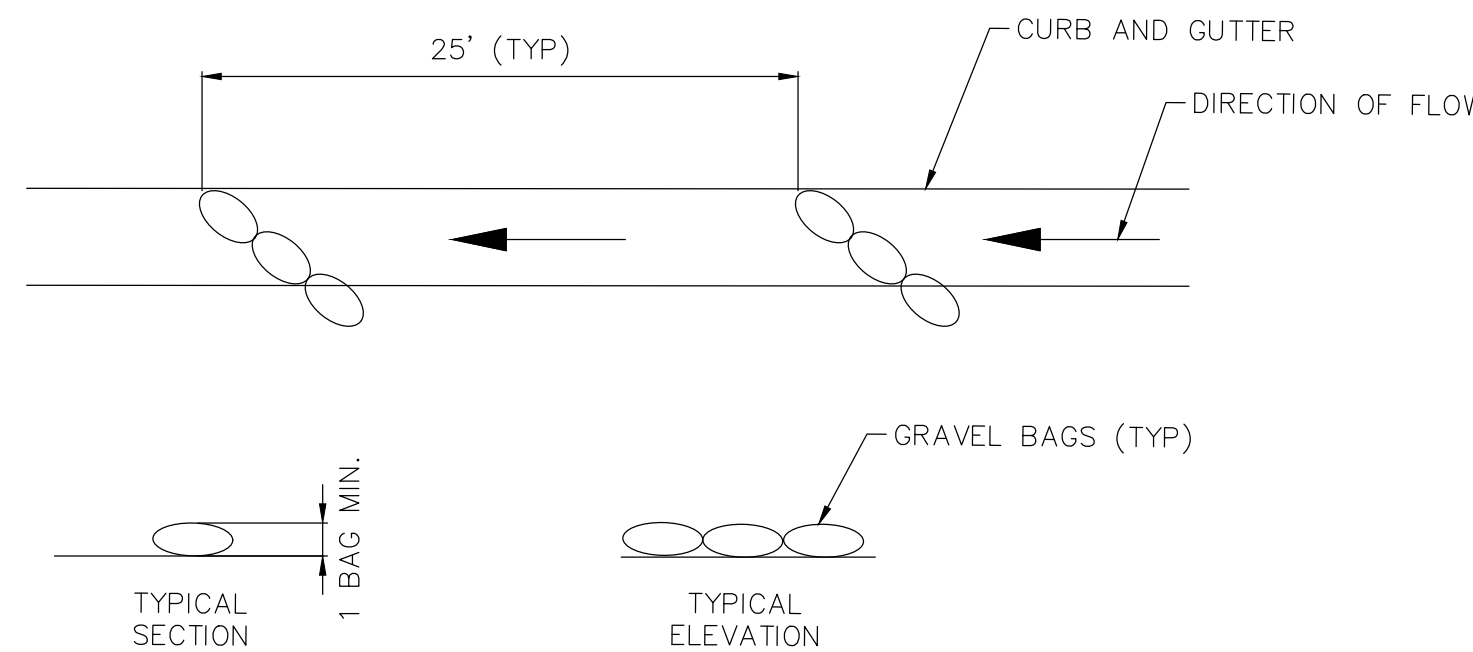


- NOTES:
1. SILT FENCE SHALL BE PLACED ON LEVEL CONTOURS TO MAXIMIZE PONDING EFFICIENCY WHENEVER FEASIBLE.
 2. INSPECT AND REPAIR FENCE AFTER EACH RAIN EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9 INCH MAXIMUM RECOMMENDED STORAGE HEIGHT.
 3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT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

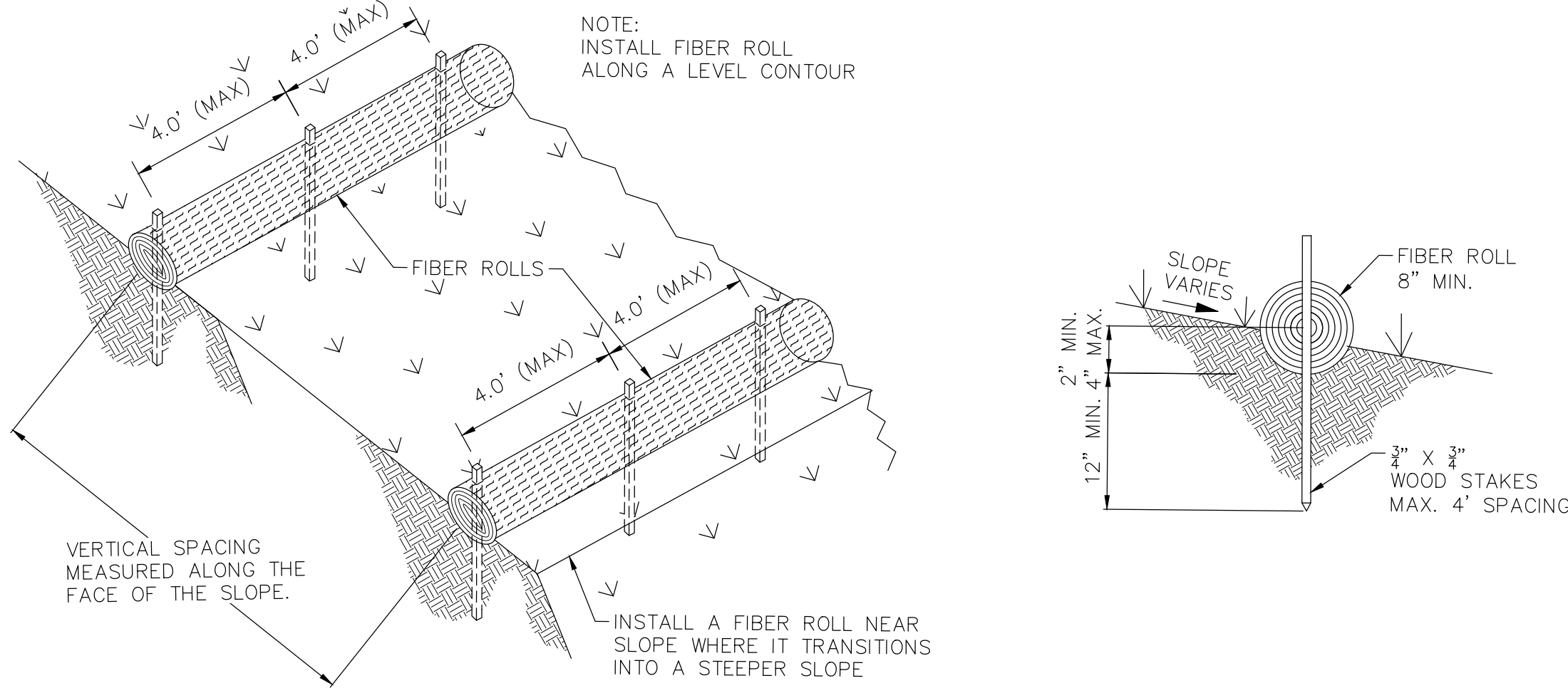
A
25
SILT FENCE DETAIL
N.T.S



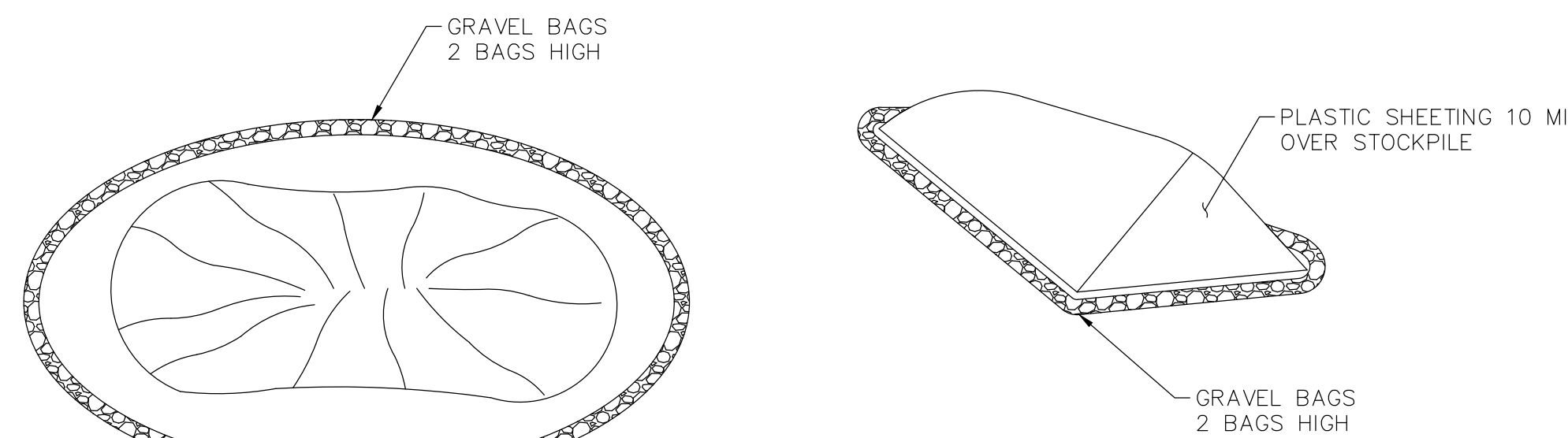
B
20
CURB INLET PROTECTION
N.T.S



D
25
GRAVEL BAG PLACEMENT
N.T.S



C
25
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
25
STOCK PILE PROTECTION
N.T.S

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/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.



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 25 DAYS BEFORE YOU DIG.

TEMPORARY WATER POLLUTION CONTROL DETAILS FOR:

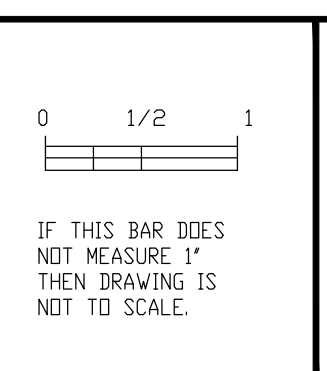
CONNECT MAIN STREET PHASES 1 & 2

CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 25 OF 44 SHEETS				DATE 7/20/23	TM/TPM
DESCRIPTION		BY	APPROVED	DATE	FILMED
ORIGINAL	CRA				
AS-BUILTS					1848-6321 NAD83 COORDINATES
CONTRACTOR _____ DATE STARTED _____					206-1755 & 210-1755 LAMBERT COORDINATES
INSPECTOR _____ DATE COMPLETED _____					R23-01-25

CONSTRUCTION CHANGE TABLE

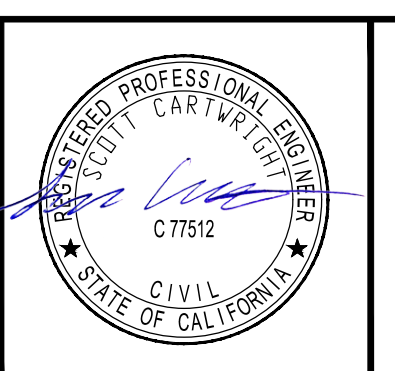
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK



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

CAUTION!
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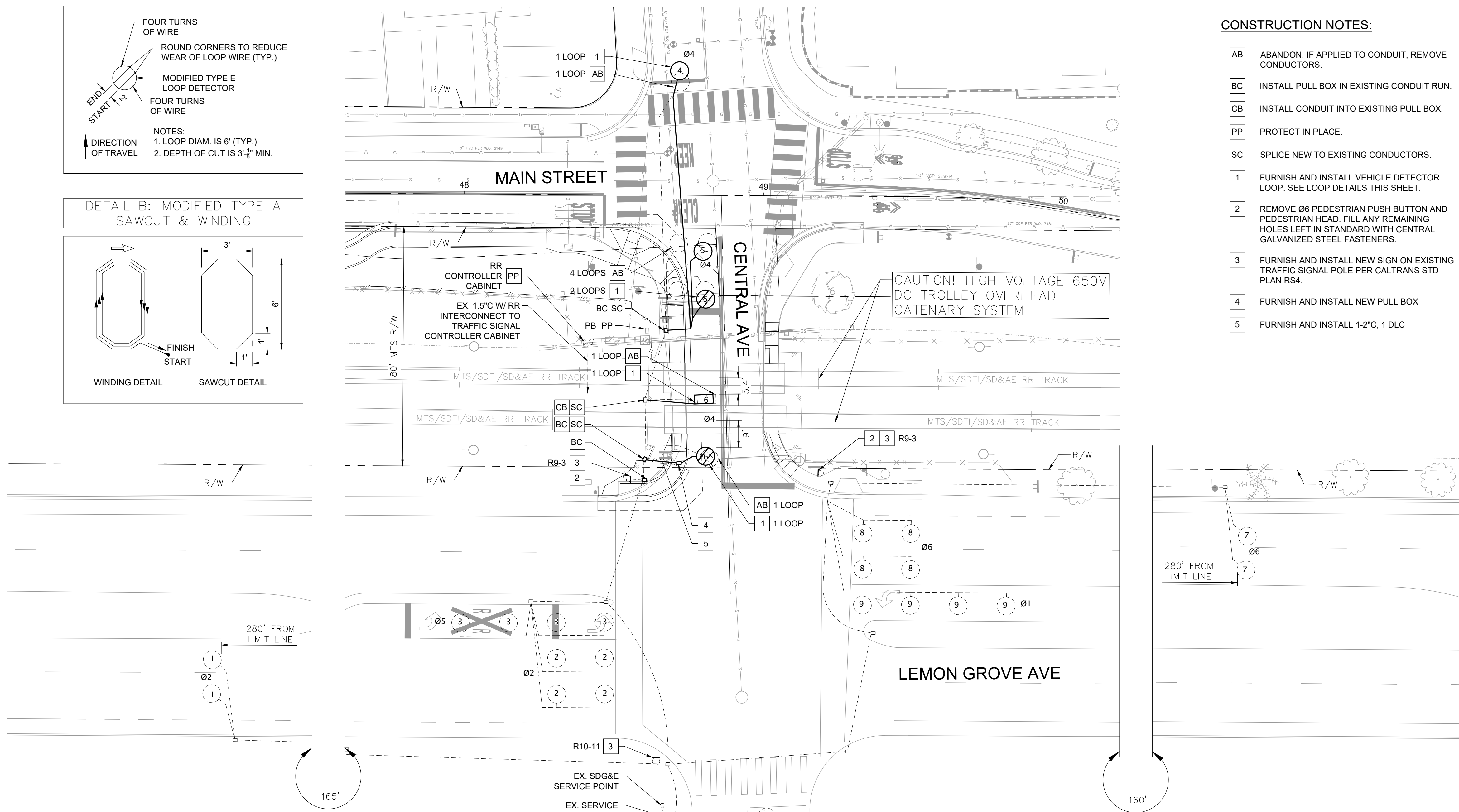
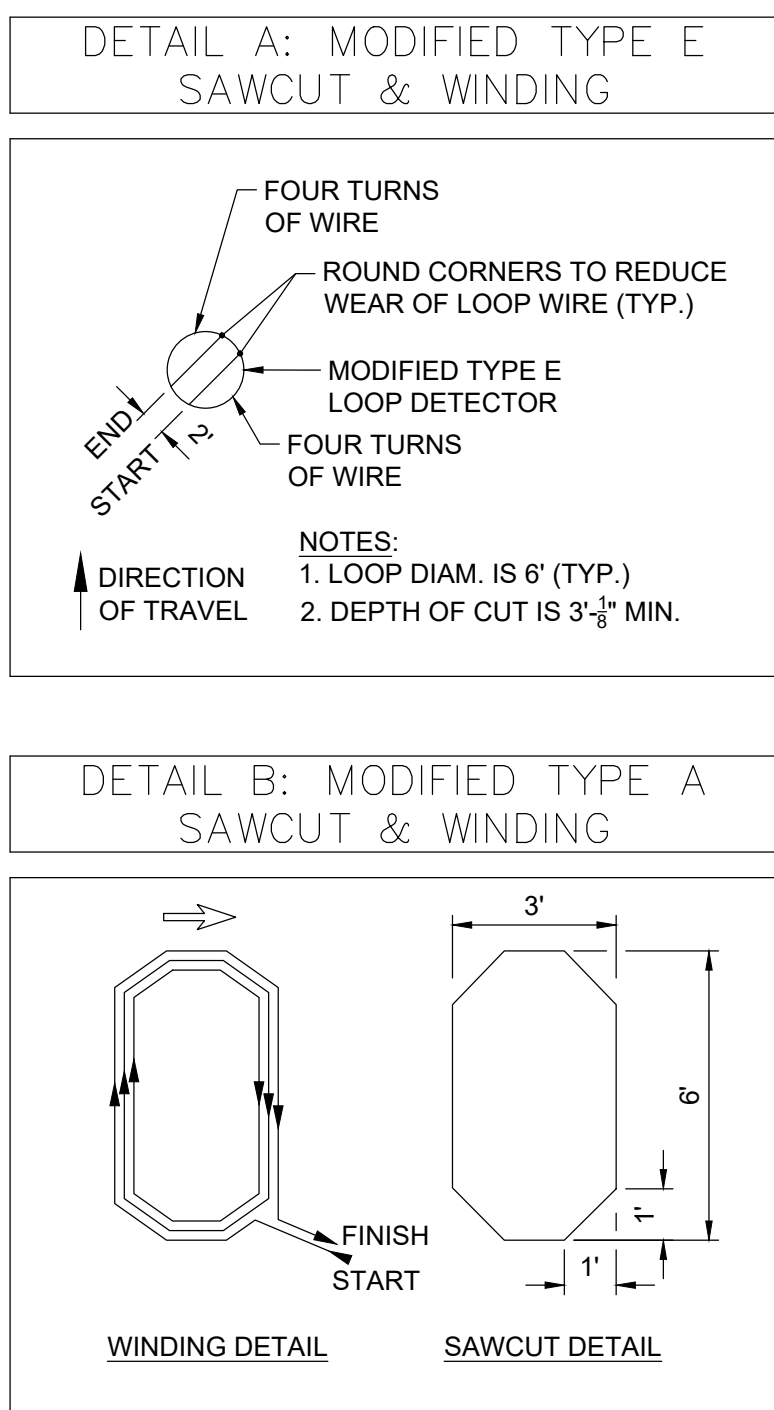
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MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50

FINAL CONSTRUCTION DRAWINGS

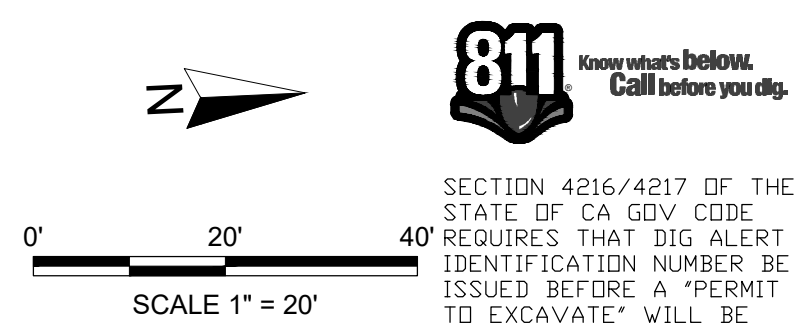
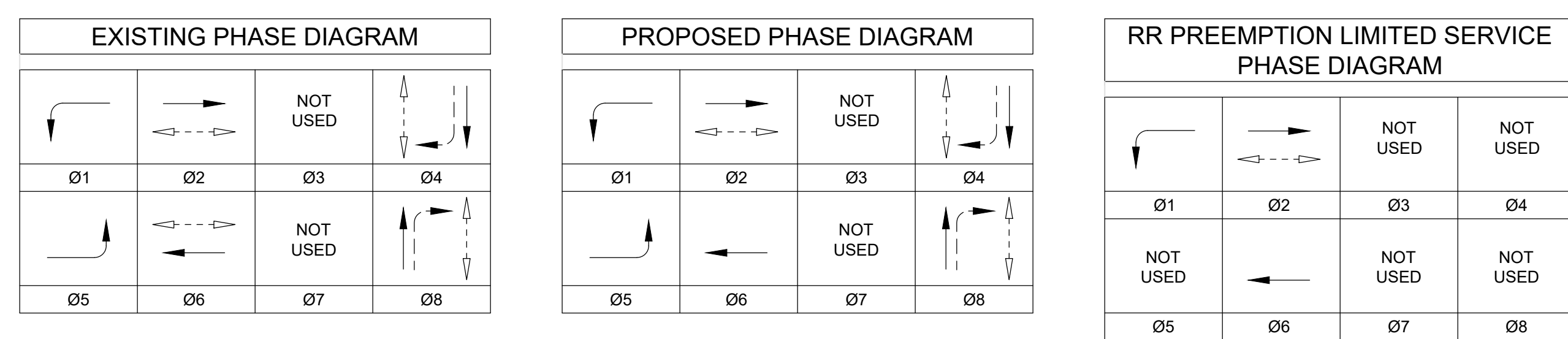
TRAFFIC SIGNAL GENERAL NOTES:

- THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF ALL UTILITIES INCLUDING THOSE NOT SHOWN ON PLANS. VERIFICATION OF THE LOCATION AND DEPTH OF UNDERGROUND UTILITIES AND DIGGING FOR FOUNDATIONS SHALL BE DONE BY HAND EXCAVATION METHODS UNTIL CLEAR OF ALL UNDERGROUND FACILITIES. ALL UNDERGROUND UTILITIES SHALL BE PROTECTED DURING CONSTRUCTION AND EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE BORNE BY CONTRACTOR.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND NOTIFY ALL UTILITIES, AGENCIES, AND THE CITY OF LEMON GROVE AT LEAST TWO WORKING DAYS IN ADVANCE OF CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND FACILITIES BY CONTACTING UTILITY REPRESENTATIVES AND BY CONTACTING THE UNDERGROUND SERVICE ALERT AT 1-800-422-4133, AT LEAST TWO WORKING DAYS BEFORE EXCAVATION.
- UTILITY MARK-OUTS SHALL BE CONDUCTED USING A TEMPORARY PAINT THAT CAN BE REMOVED BY POWER WASH, IF NECESSARY.
- ROUTING AND LOCATIONS OF UNDERGROUND ELECTRICAL SYSTEMS IS DIAGRAMMATIC AND SUBJECT TO APPROVAL OF THE ENGINEER. UNDERGROUND ELECTRICAL LINES AND SUBSURFACE STRUCTURES MAY BE RELOCATED IF NECESSARY TO CLEAR OTHER EXISTING UNDERGROUND FACILITIES.
- NEW EQUIPMENT LOCATIONS ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF EQUIPMENT. THE CITY OF LEMON GROVE ENGINEERING DEPARTMENT INSPECTORS SHALL FIELD VERIFY AND APPROVE THE EXACT EQUIPMENT LOCATIONS PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES DURING TRAFFIC SIGNAL INSTALLATION. A TRAFFIC CONTROL PLAN, INCLUDING THE LAYOUT OF CONSTRUCTION WARNING AND DETOUR SIGNS, WORKING HOURS, AND CONSTRUCTION SCHEDULE SHALL BE SUBMITTED AND APPROVED TO THE ENGINEERING DIVISION DEPARTMENT AS PART OF THE CITY'S CONSTRUCTION ENCROACHMENT PERMIT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING AT THE JOB SITE A MINIMUM OF TWO WORKING DAYS IN ADVANCE OF COMMENCEMENT OF WORK.
- ALL NEW TRAFFIC SIGNAL CONDUIT AND FITTINGS SHALL BE MINIMUM THREE INCH (3") SCHEDULE 40 PVC UNLESS OTHERWISE SHOWN ON THE PLANS. ALL NEW CONDUITS SHALL BE BURIED WITH A MINIMUM OF THIRTY INCHES (30") OF TOTAL COVER FROM THE TOP OF PIPE TO FINISHED GRADE. ALL NEW CONDUITS SHALL BE SEALED UPON COMPLETION. STREET CROSSINGS BY BORE METHOD SHALL BE APPROVED BY THE CITY ENGINEER. ALL DIRECTIONAL BORED RACEWAYS SHALL BE HDPE TYPICAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, RELOCATION, OR REPLACEMENT OF ALL NEW TRAFFIC SIGNAL SIGNING AS REQUIRED BY THE TRAFFIC ENGINEER. ALL NEW SIGNS SHALL BE STANDARD SIZE AND CONFORM TO THE LATEST EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD).
- AN "AS-BUILT" DRAWING PLAN SET SHALL BE SUBMITTED FOR ALL PUBLIC IMPROVEMENTS PRIOR TO THE ACCEPTANCE OF SAID IMPROVEMENTS.
- TRAFFIC SIGNAL CONSTRUCTION SHALL NOT COMMENCE UNTIL ALL MATERIALS ARE ON-HAND UNLESS APPROVED BY THE PROJECT INSPECTOR.
- ALL NEW EQUIPMENT PER THESE PLANS AND SPECIFICATIONS SHALL BE FURNISHED BY THE CONTRACTOR, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- CONTRACTOR SHALL MAINTAIN A CLEAR 4 FOOT PATH OF TRAVEL ON SIDEWALK FROM ALL APPROACHES WITHIN IMPROVEMENT LIMITS.
- NEW PULL BOXES SHALL BE MINIMUM SIZE #6 UNLESS OTHERWISE NOTED. HOME RUN PULL BOX SHALL BE SIZE #6E.
- ALL TREES AND SHRUBS SHALL BE TRIMMED OR REMOVED AS DETERMINED BY THE CITY RESIDENT ENGINEER AS REQUIRED TO MAINTAIN SIGNAL HEAD VISIBILITY AND SIGHT DISTANCE.



- CONSTRUCTION NOTES:**
- AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
 - BC INSTALL PULL BOX IN EXISTING CONDUIT RUN.
 - CB INSTALL CONDUIT INTO EXISTING PULL BOX.
 - PP PROTECT IN PLACE.
 - SC SPLICE NEW TO EXISTING CONDUCTORS.
 - 1 FURNISH AND INSTALL VEHICLE DETECTOR LOOP. SEE LOOP DETAILS THIS SHEET.
 - 2 REMOVE Ø6 PEDESTRIAN PUSH BUTTON AND PEDESTRIAN HEAD. FILL ANY REMAINING HOLES LEFT IN STANDARD WITH CENTRAL GALVANIZED STEEL FASTENERS.
 - 3 FURNISH AND INSTALL NEW SIGN ON EXISTING TRAFFIC SIGNAL POLE PER CALTRANS STD PLAN RS4.
 - 4 FURNISH AND INSTALL NEW PULL BOX
 - 5 FURNISH AND INSTALL 1-2" C, 1 DLC

NOTE: CONDUIT LINES DRAWN DIAGRAMMATICALLY. INSTALL CONDUIT AT A MIN. OF 5' FROM WATER MAIN.



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.

TRAFFIC SIGNAL MODIFICATION PLAN FOR:
CONNECT MAIN STREET PHASE 1 & 2
CENTRAL AVENUE AND LEMON GROVE AVENUE

CITY OF LEMON GROVE, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 26 OF 44 SHEETS

DATE	7/20/23	TM/TPM	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	CRA		
AS-BUILTS			
CONTRACTOR	DATE STARTED		
INSPECTOR	DATE COMPLETED		

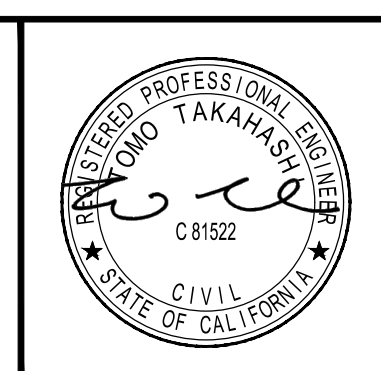
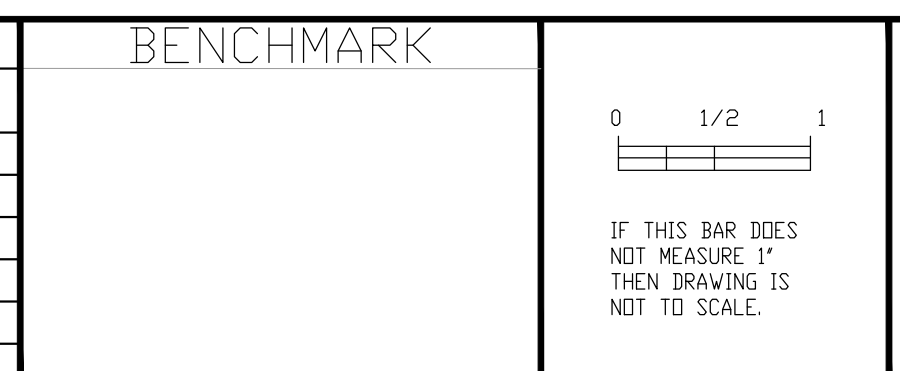
1848-6321
NAD83 COORDINATES

206-1755 & 210-1755
LAMBERT COORDINATES

R23-01-26

CONSTRUCTION CHANGE TABLE

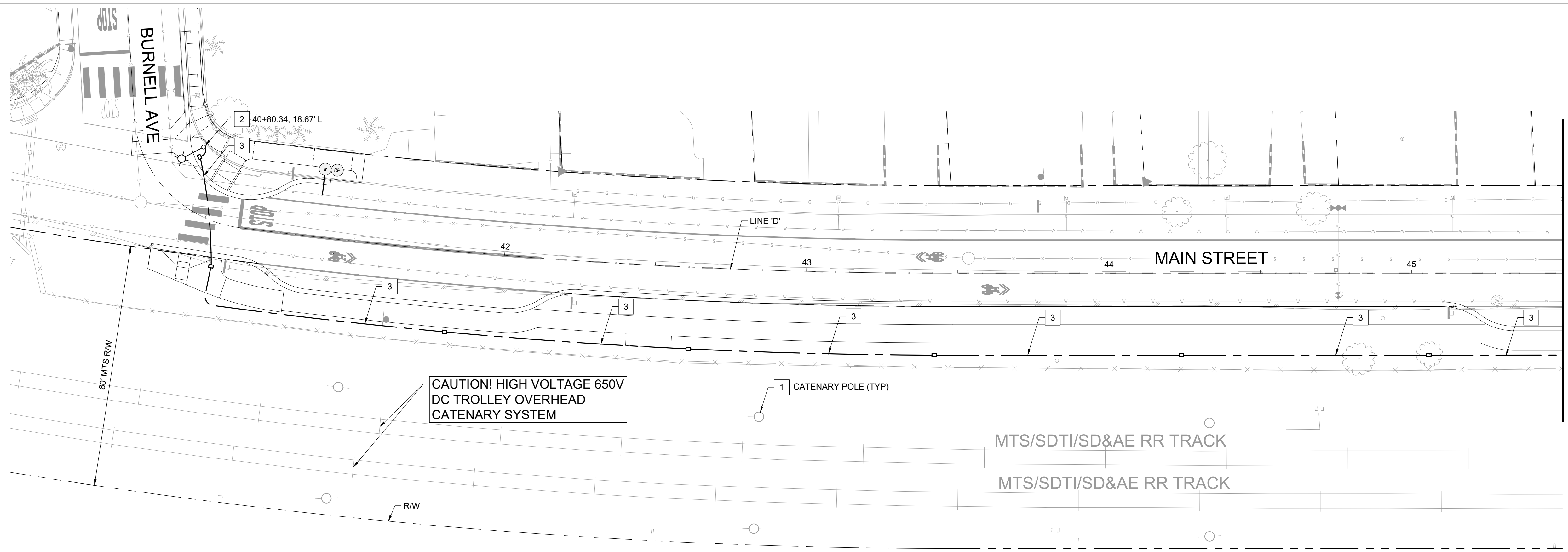
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS



STREET DATA TABLE

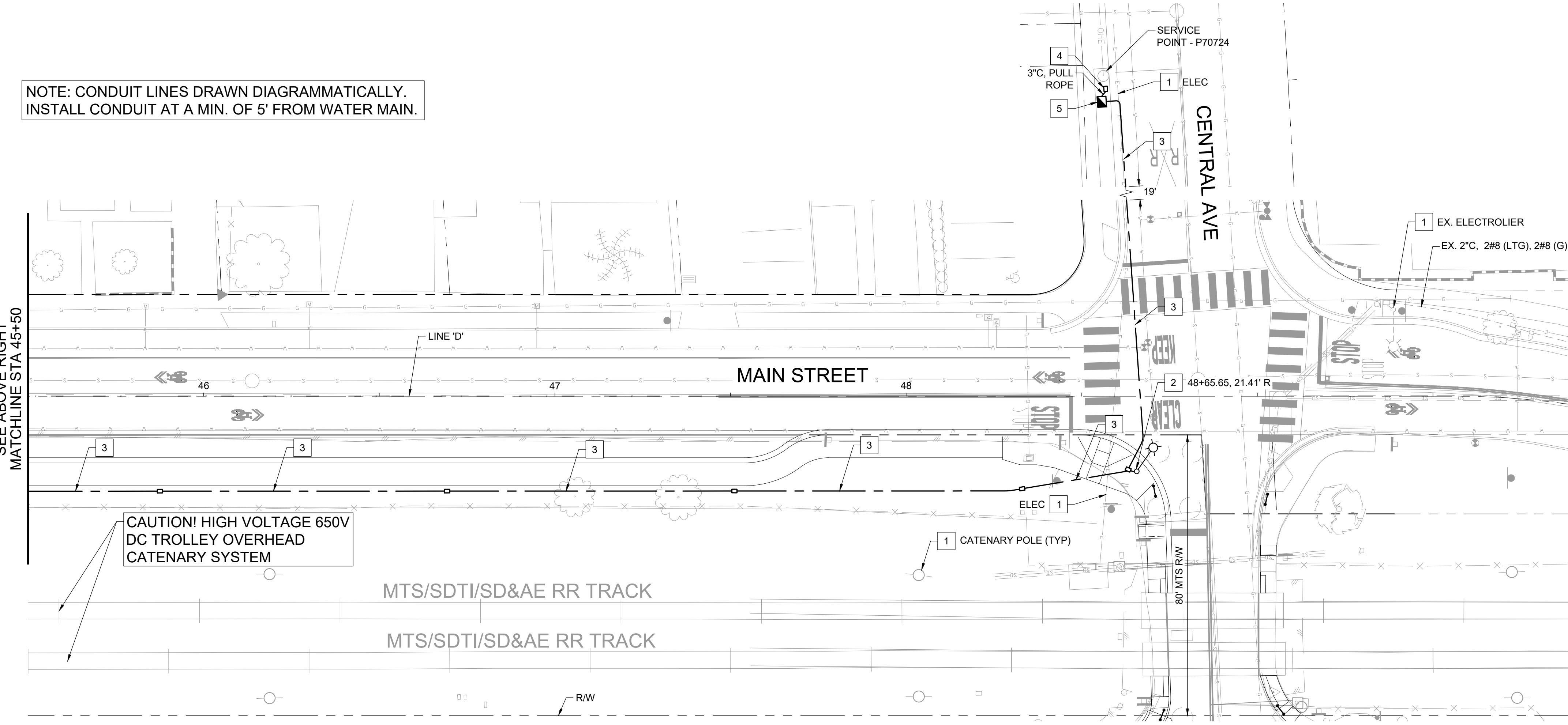
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50

FINAL CONSTRUCTION DRAWINGS



MATCHLINE STA 45+50
SEE BELOW LEFT

NOTE: CONDUIT LINES DRAWN DIAGRAMMATICALLY.
INSTALL CONDUIT AT A MIN. OF 5' FROM WATER MAIN.



SEE ABOVE RIGHT
MATCHLINE STA 45+50

LIGHTING AND ELECTRICAL GENERAL NOTES:

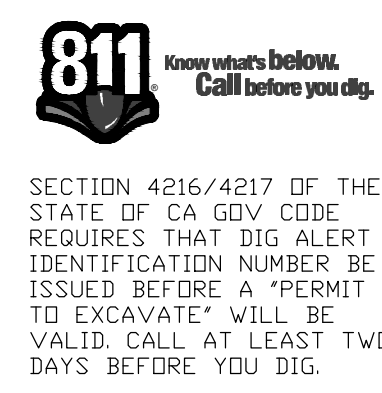
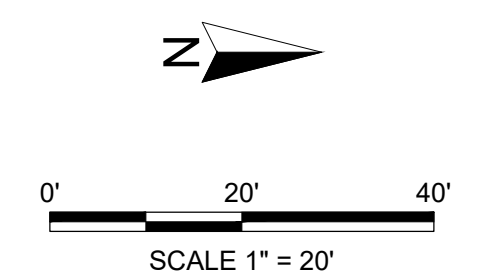
- ALL POLES, CONDUIT, AND PULL BOX LOCATIONS SHOWN ARE APPROXIMATE. ACTUAL LOCATIONS SHALL BE DETERMINED BY FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND AS DIRECTED BY THE ENGINEER. PULL BOXES SHALL NOT BE PLACED WITHIN THE PEDESTRIAN CURB RAMP AND DRIVEWAYS UNLESS APPROVED BY THE ENGINEER.
- LOCATION 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.
- CONTRACTOR SHALL POT HOLE 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.
- 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.
- PULL BOXES SHALL BE NO. 5(T) AND CONDUIT 2" UNLESS OTHERWISE NOTED. PULL BOXES SHALL BE INSTALLED PER SDRSD I-15.
- ALL NEW STREET LIGHTS SHALL HAVE A PULLBOX ADJACENT TO THE POLE UNLESS OTHERWISE SHOWN
- NATIONAL ELECTRICAL CODE (NEC) WIRE COLOR CODING SHALL BE USED FOR ALL ELECTRICAL WORK.
- ALL TREES AND SHRUBS SHALL BE TRIMMED OR REMOVED AS DETERMINED BY THE ENGINEER AS REQUIRED TO MAINTAIN VISIBILITY AND SIGHT DISTANCE.
- SEE DEMOLITION PLANS FOR ANY EXISTING ELECTRICAL AND TRAFFIC SIGNAL EQUIPMENT NOT SHOWN.
- ALL NARROW ELECTRICAL TRENCHING AND BACKFILL SHALL BE ACCORDING TO SAN DIEGO REGIONAL STANDARD DRAWING G-33.
- ALL CONDUIT CROSSING WATER MAINS SHALL PROVIDE 1" MINIMUM VERTICAL SEPARATION.

LIGHTING AND ELECTRICAL NOTES

- PROTECT IN PLACE PER PLAN.
- FURNISH AND INSTALL NEW AMERON 28226 STREET LIGHT POLE AND FOUNDATION WITH 8' 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.
- FURNISH AND INSTALL 2" SCHEDULE 40 PVC CONDUIT WITH 2#6 LTG AND 1#6 GND.
- FURNISH AND INSTALL PULL BOX WITHIN 7.5' OF SERVICE POINT AND WITHIN 10' OF SERVICE PEDESTAL. CONTRACTOR TO COORDINATE WITH SD&E FOR JOINT MEETING IN FIELD PRIOR TO INSTALLATION.
- FURNISH AND INSTALL 120/240V TYPE III-BF SERVICE EQUIPMENT ENCLOSURE PER CALTRANS RSP ES-2E AND SD&E REQUIREMENTS. INCLUDE PLUG-IN TYPE BREAKER. METER SHALL FACE NORTH. ADDRESS: 7705 1/2 CENTRAL AVE
100A CB (MAIN)
30A CB (LIGHTING-UNMETERED)
30A CB (IRRIGATION-METERED)

LEGEND

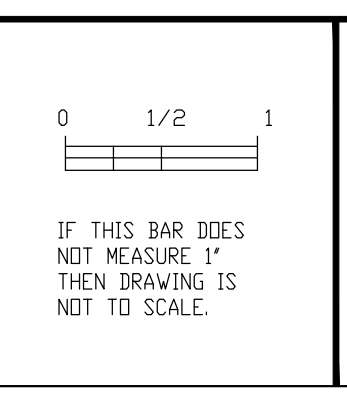
- PROPOSED CONDUIT
- EXISTING CONDUIT
- PROPOSED AMERON STREET LIGHT POLE
- EXISTING ELECTROLIER
- PROPOSED PULL BOX
- EXISTING PULL BOX
- PROPOSED SERVICE PEDESTAL




LIGHTING PLANS FOR:			
CONNECT MAIN STREET PHASE 1 & 2 BURNELL AVE TO CENTRAL AVE			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 27 OF 44 SHEETS		DATE: 7/20/23 TM/TPM: _____	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	CRA		
AS-BUILTS			
CONTRACTOR _____ DATE STARTED _____		INSPECTOR _____ DATE COMPLETED _____	
		R23-01-27	

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

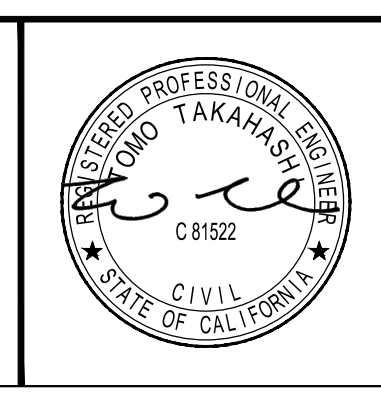
BENCHMARK





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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, SAN MIGUEL TO CENTRAL	2-LANE COLLECTOR	35	324	40	
MAIN STREET, CENTRAL TO BROADWAY	2-LANE COLLECTOR	30	754	50	

FINAL CONSTRUCTION DRAWINGS

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 TREATMENTS.
- 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. WALKS 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 OF ALL PAVING MATERIALS 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 OWNER'S 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 CONTRACTOR'S 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 OWNER'S 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-CONTRACTOR'S.

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
	1 STANDARD GREY PEDESTRIAN CONCRETE PAVING. SEE CIVIL PLANS.	SEE CIVIL PLANS
	2 4" THICK STABILIZED DECOMPOSED GRANITE PAVING AVAILABLE THROUGH KRC ROCK OR APPROVED EQUAL. COLOR: DESERT GOLD. PH# (858) 748-3953	2/LC-2.0
	3 6" WIDE STANDARD GREY CONCRETE MOW CURB	SEE CIVIL PLANS
	4 CURB AND GUTTER	SEE CIVIL PLANS
	5 6" RAISED CONCRETE CURB. SEE CIVIL FOR MORE INFORMATION	SEE CIVIL PLANS
	6A ADA ACCESSIBLE CURB RAMP	SEE CIVIL PLANS
	6B ADA ACCESSIBLE RAMP	SEE CIVIL PLANS
	7 SEWER MANHOLE. SEE CIVIL FOR MORE INFORMATION.	SEE CIVIL PLANS
	8 SIGNAGE. SEE CIVIL FOR MORE INFORMATION	SEE CIVIL PLANS
	9 LIGHT FIXTURE.	SEE CIVIL PLANS
	10 INTERPRETIVE PANEL ON ST.PHILIPS CHURCH, LEMON GROVE LIBRARY, AND MOUNTAIN VISTAS.	1/LC-2.0
	11 ROAD MARKINGS. SEE CIVIL FOR MORE INFORMATION.	SEE CIVIL PLANS
	12 CROSSWALK STRIPING. SEE CIVIL FOR MORE INFORMATION.	SEE CIVIL PLANS
	13 EXISTING RETAINING WALL, PROTECT IN PLACE	
	14 EXISTING CURB AND GUTTER TO REMAIN	
	15 EXISTING CHAINLINK FENCE TO REMAIN, PROTECT IN PLACE.	
	16 EXISTING DRAINAGE CULVERT, PROTECT IN PLACE	
PA	PLANTING AREA	SEE PLANTING PLANS

SEE SHEET LC-1.0 FOR CONSTRUCTION LEGEND & NOTES
SEE SHEET LC-1.1 - LC-1.3 FOR CONSTRUCTION PLANS
SEE SHEET LC-2.0 FOR CONSTRUCTION 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.

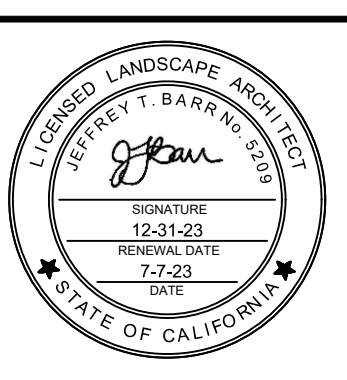
CONNECT MAIN STREET PHASE 1+ 2			
LANDSCAPE CONSTRUCTION NOTES & LEGEND			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 28 OF 44 SHEETS		7/20/23	
FOR CITY ENGINEER*		DATE	
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	SDG		
		1848-6321 NAD83 COORDINATES	
		206-1755 & 210-1755 LAMBERT COORDINATES	
AS-BUILTS			
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
LC-1.0			

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

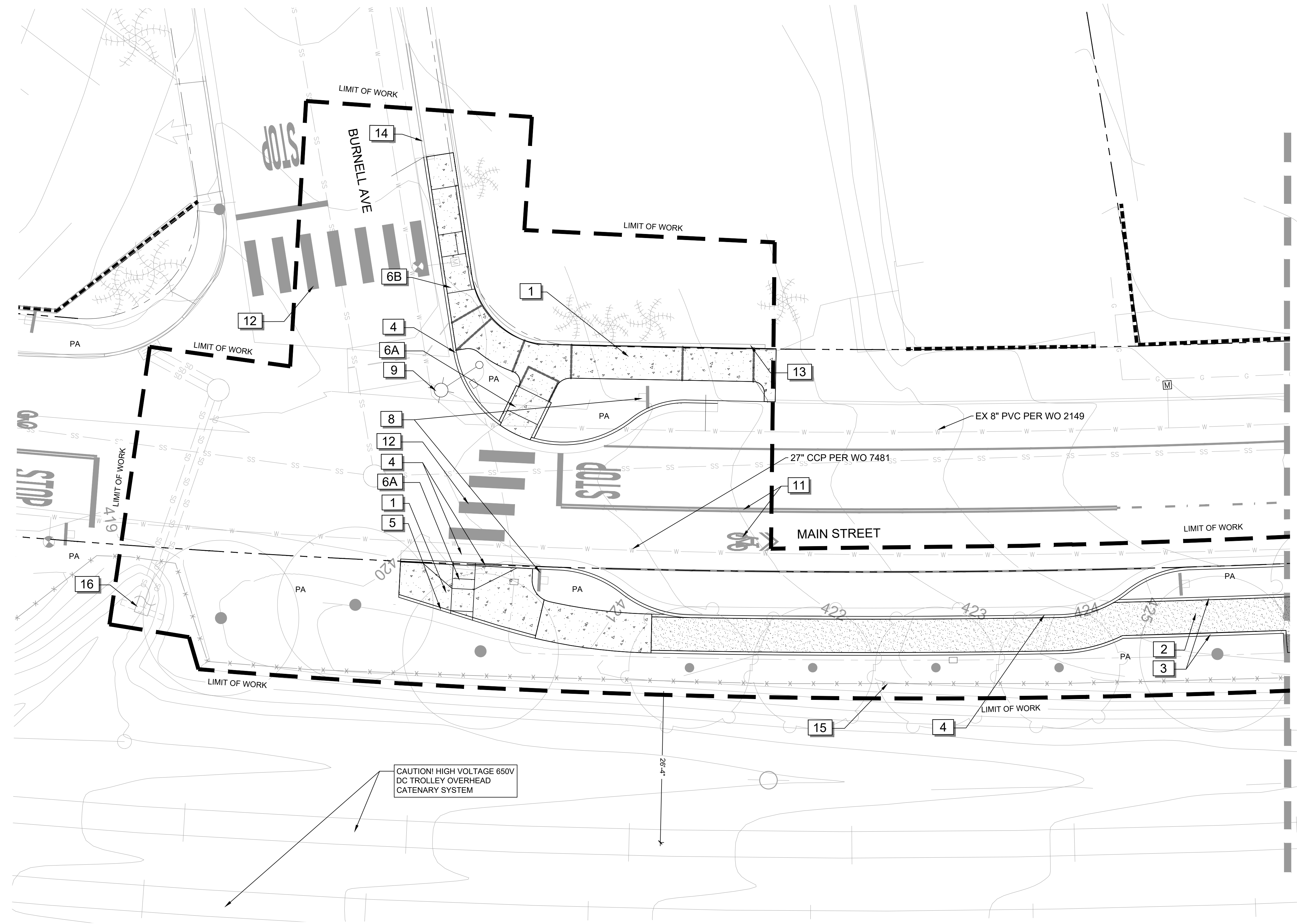
BENCHMARK	

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

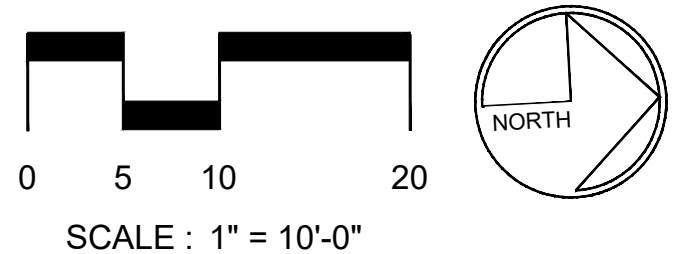
CAUTION!
LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.



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 LC-1.2



SEE SHEET LC-1.0 FOR CONSTRUCTION LEGEND & NOTES
 SEE SHEET LC-1.1 - LC-1.3 FOR CONSTRUCTION PLANS
 SEE SHEET LC-2.0 FOR CONSTRUCTION DETAILS

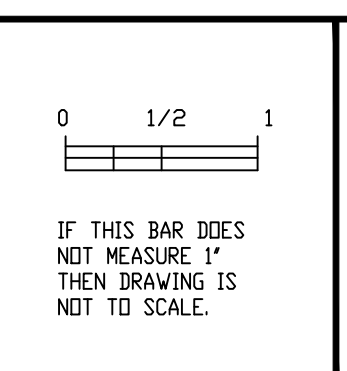
**SCHMIDT
 DESIGN
 GROUP**
110 Rosemead St., Suite G, San Diego, CA 92106
 619.236.5622
 LIC. CA 71381 (REV. 3/91) A2 34339
 SCHMIDTDESIGN.COM

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 1+2					
LANDSCAPE CONSTRUCTION PLANS					
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 29 OF 44 SHEETS					
FOR CITY ENGINEER* <u>7/20/23</u>					TM/TPM
DESCRIPTION	BY	APPROVED	DATE	FILMED	
ORIGINAL	SDG				1848-6321 NAD83 COORDINATES
AS-BUILTS					206-1755 & 210-1755 LAMBERT COORDINATES
CONTRACTOR _____ DATE STARTED _____					LC-1.1
INSPECTOR _____ DATE COMPLETED _____					

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK



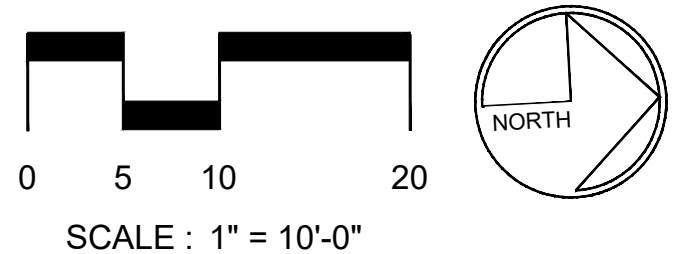
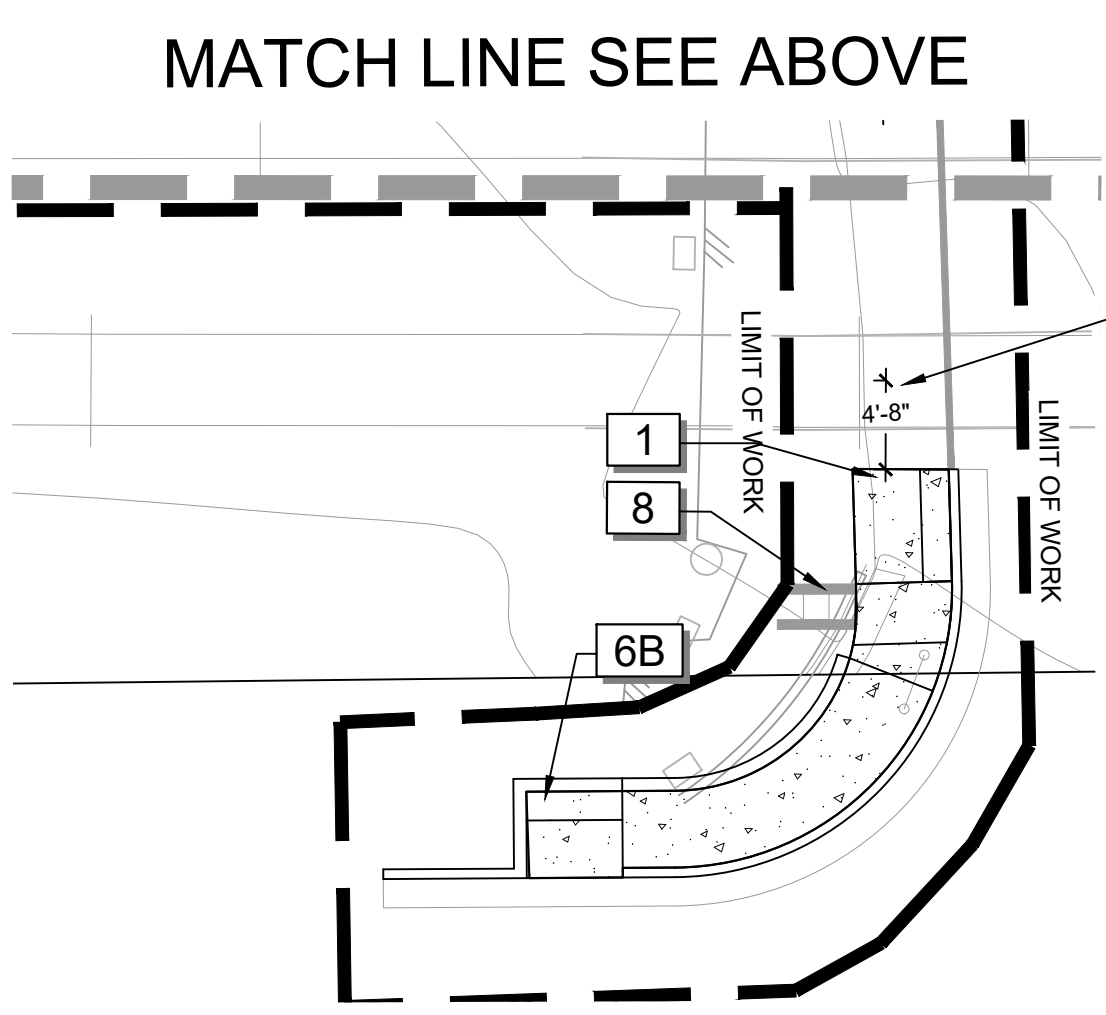
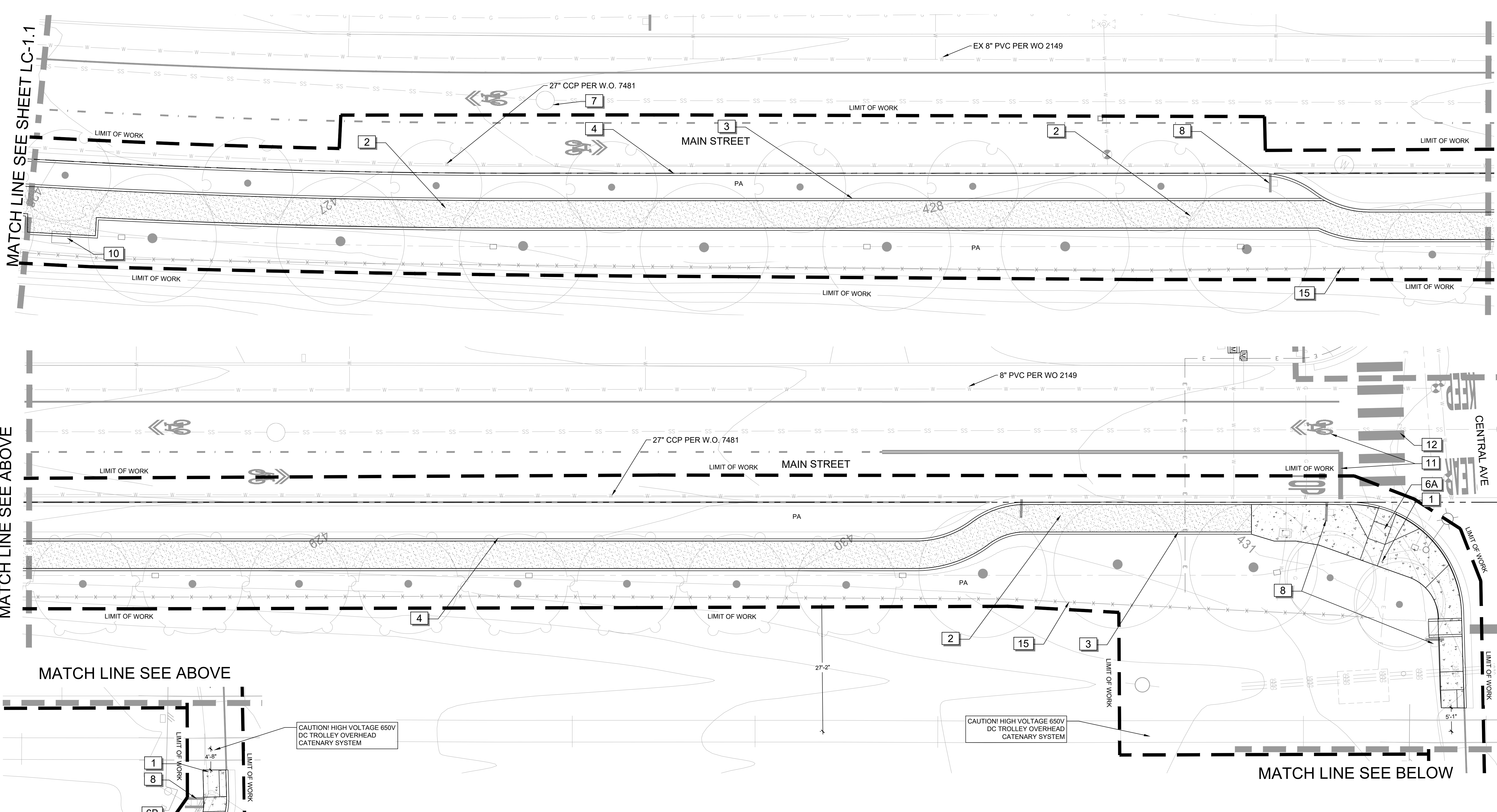
CHEN + RYAN
 ASSOCIATES
 3900 Fifth Avenue, Ste 310 • San Diego, CA 92103 | 619.795.6086

CAUTION!
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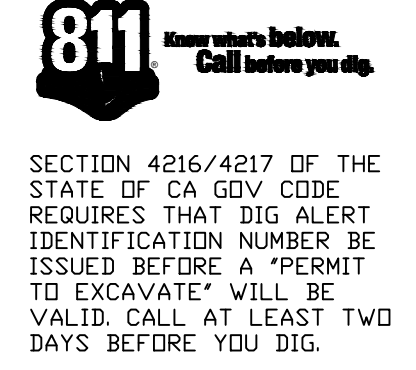


STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

FINAL CONSTRUCTION DRAWINGS



SEE SHEET LC-1.0 FOR CONSTRUCTION LEGEND & NOTES
 SEE SHEET LC-1.1 - LC-1.3 FOR CONSTRUCTION PLANS
 SEE SHEET LC-2.0 FOR CONSTRUCTION DETAILS



CONNECT MAIN STREET PHASE 1+2			
LANDSCAPE CONSTRUCTION PLANS			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 30 OF 44 SHEETS			
FOR CITY ENGINEER*	DATE	7/20/23	TM/TPM
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	SDG		
AS-BUILTS			1848-6321 NAD83 COORDINATES
CONTRACTOR			206-1755 & 210-1755 LAMBERT COORDINATES
INSPECTOR			DATE STARTED
			DATE COMPLETED
			LC-1.2

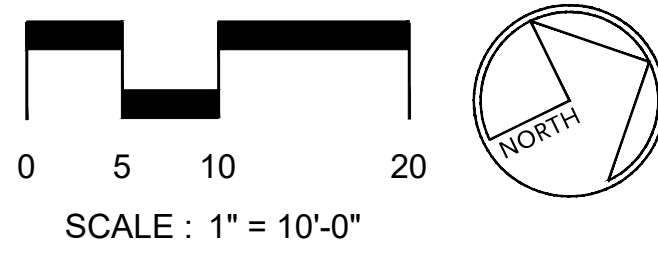
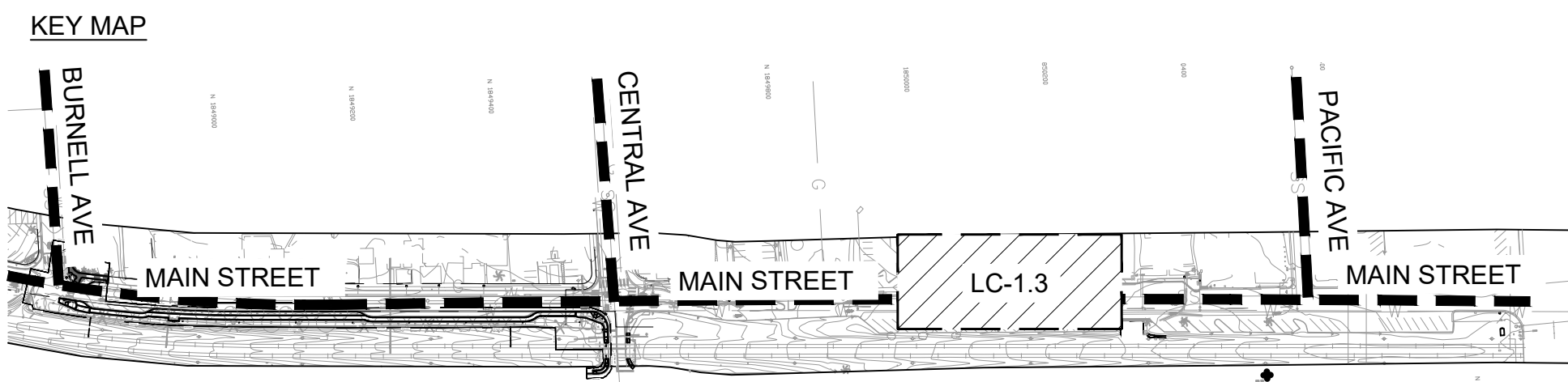
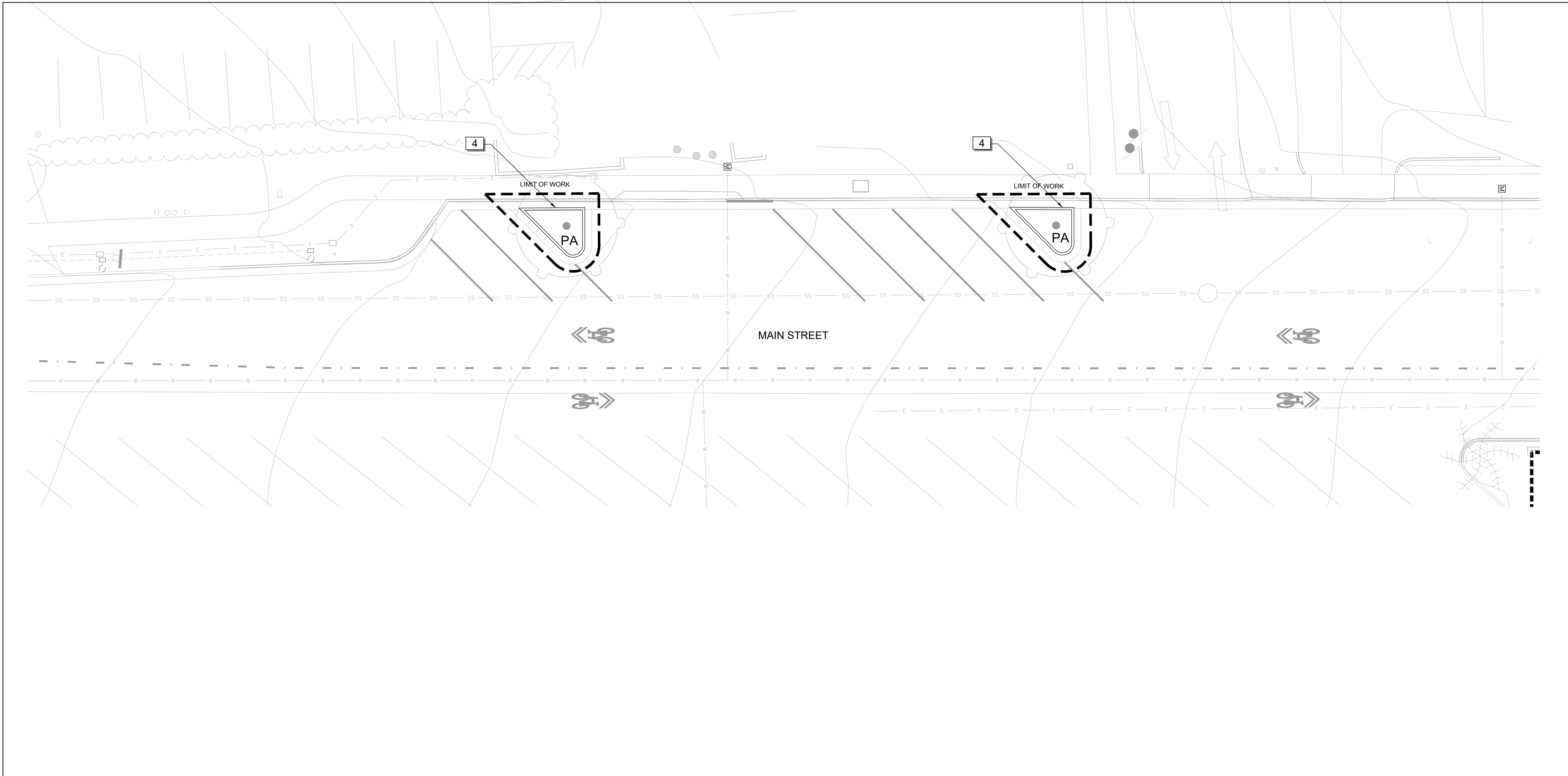
CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK	

CHEN RYAN ASSOCIATES
 3900 Fifth Avenue, Ste 310 • San Diego, CA 92103 | 619.795.6086
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SEE SHEET LC-1.0 FOR CONSTRUCTION LEGEND & NOTES
 SEE SHEET LC-1.1 - LC-1.3 FOR CONSTRUCTION PLANS
 SEE SHEET LC-2.0 FOR CONSTRUCTION DETAILS

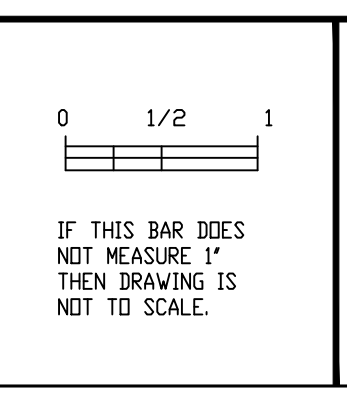
SCHMIDT DESIGN GROUP
 110 Rosemont St, Suite G, San Diego, CA 92106
 619.226.5622
 LIC. CA 7138 (REV 3/91) AZ 34339
 SDG PROJECT #: 20-108
 PLT DATE: 6/20/2023
 DRAWN BY: TS, CH, BP
 CHECKED BY: JJ

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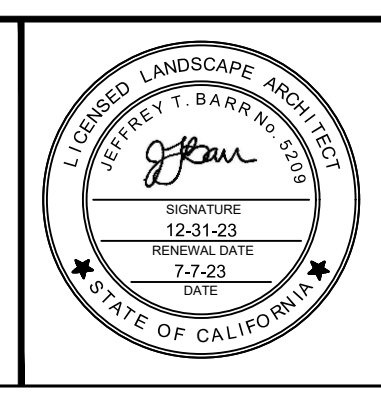
CONNECT MAIN STREET PHASE 1+2			
LANDSCAPE CONSTRUCTION PLANS			
CITY OF LEMON GROVE, CALIFORNIA		DEVELOPMENT SERVICES DEPARTMENT	
SHEET 31 OF 44 SHEETS		DATE: 7/20/23	
FOR CITY ENGINEER*	DATE	TM/TPM	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	SDG		
AS-BUILTS		1848-6321 NAD83 COORDINATES	
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		206-1755 & 210-1755 LAMBERT COORDINATES	
		LC-1.3	

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

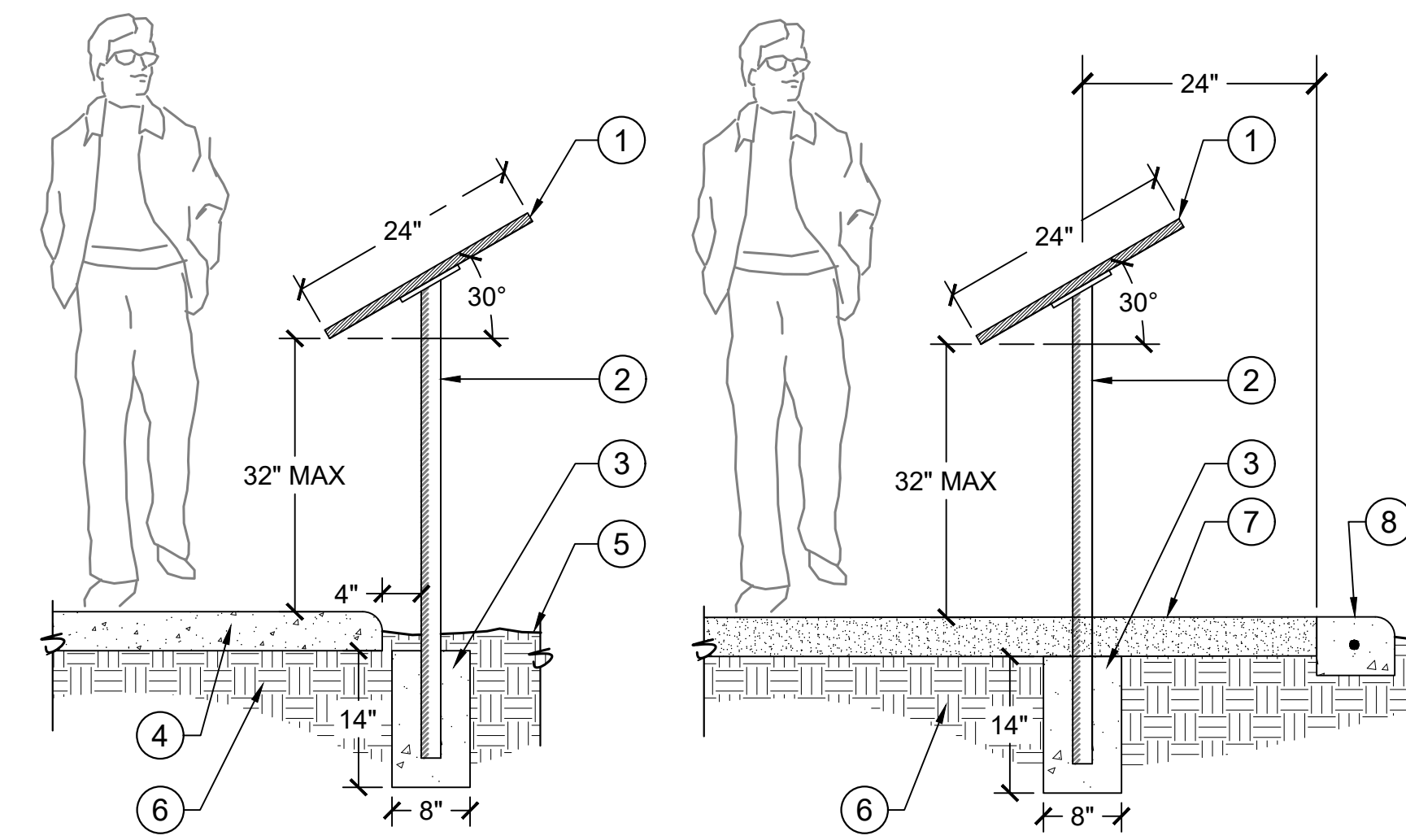
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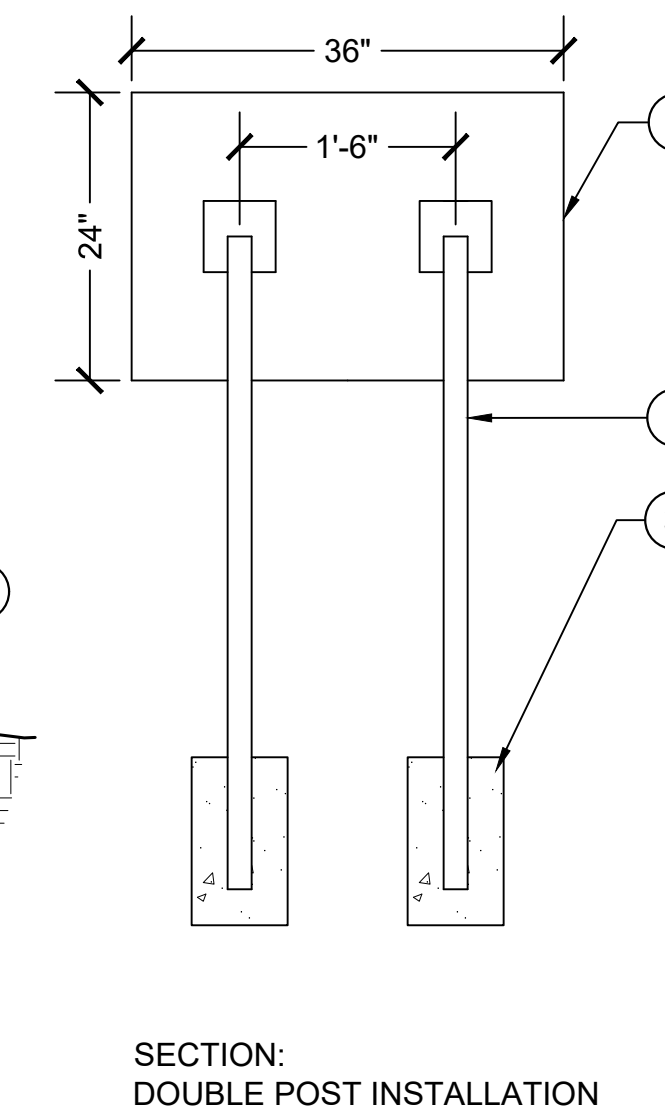


STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40



INSTALLATION OF SIGN IN PLANTING AREA
(REFER TO CALLOUT 34A ON PLAN.)

INSTALLATION OF SIGN IN DECOMPOSED GRANITE
(REFER TO CALLOUT 34B ON PLAN.)

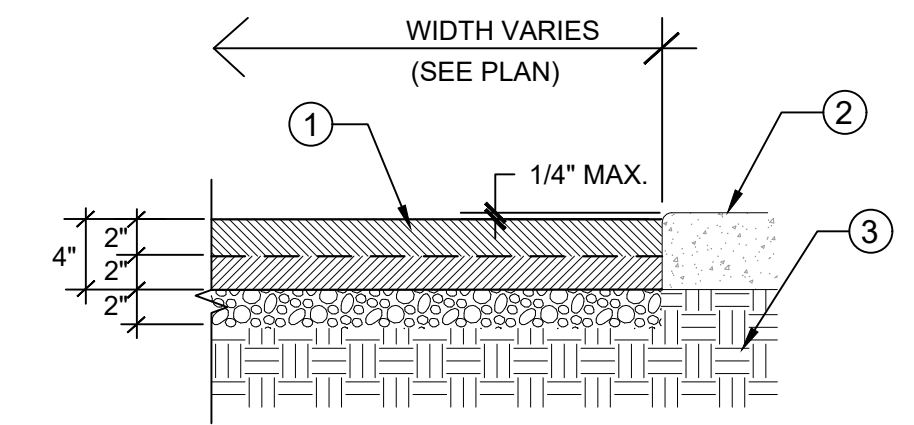


SECTION:
DOUBLE POST INSTALLATION

1 INTERPRETIVE POST & SIGN
3/4" = 1'-0"

- LEGEND:**
- ① 24" x 36" INTERPRETIVE SIGN(S) PER CONSTRUCTION LEGEND AND SPECIFICATIONS.
 - ② DOUBLE POST (2" DIM. SS PIPE) INGROUND FRAMELESS PEDESTAL MOUNT WITH FASTENERS. ALL POSTS AND BRACKETRY TO BE POWDERCOATED SEMIGLOSS BLACK THROUGH 'ENVIROSIGNS' OR EQUAL.
 - ③ CONCRETE FOOTING - SIZE AS INDICATED - POST SHALL HAVE 14" MIN. EMBEDMENT, WITH 4" MIN. CLR. FROM CONCRETE PAVING.
 - ④ ADJACENT CONCRETE PAVING (SEE LANDSCAPE PLANS)
 - ⑤ FINISH GRADE
 - ⑥ 90% COMPACTED SUBGRADE PER SOILS REPORT
 - ⑦ DECOMPOSED GRANITE (DG) PER PLAN.
 - ⑧ 8" CONCRETE CURB AT DG OVERLOOK PER PLAN.

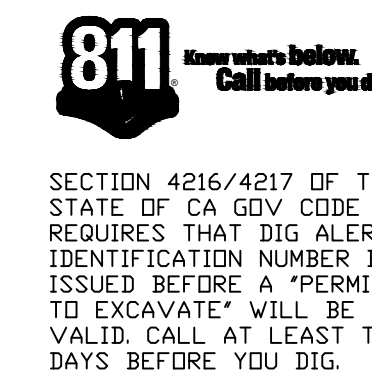
- NOTES:**
1. CONTRACTOR TO PROVIDE SHOP DRAWINGS WHICH WILL INCLUDE APPROPRIATE FASTENERS AND SAMPLES OF ALL MATERIAL USED.
 2. CONTRACTOR SHALL COORDINATE WITH ENVIROSIGNS (1-888-492-5377) OR APPROVED EQUAL FOR MANUFACTURE OF (2) TWO INTERPRETIVE PANELS AND POST(S).
 3. UPON REQUEST; CAMERA-READY LAYOUT GRAPHICS IN DIGITAL FORMAT FOR SIGNS WILL BE PROVIDED TO THE CONTRACTOR BY THE LANDSCAPE ARCHITECT. SEE SPECIFICATIONS.
 4. THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGHELL, MATTE FINISH (OR OTHER NON-GLARE).
 5. VERTICAL DISPLAYED WRITTEN AND GRAPHIC MATERIAL(S) MUST BE LEGIBLE AS DEPENDENT ON THE CONTRAST, REFLECTIVITY, LIGHTING, ANGLE OF VISION, AND SIZE.
 6. CONTRACTOR TO REFER TO SPECIFICATIONS FOR THE LAYOUT OF (2) TWO INTERPRETIVE PANELS: "PART OF A GREATER SYSTEM" AND "WHAT LIVES WITHIN."
 7. LANDSCAPE ARCHITECT SHALL APPROVE THE FINAL INTERPRETIVE PANEL SIGN(S) PRIOR TO FABRICATION.



- SECTION**
- 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.

2 STABILIZED DECOMPOSED GRANITE PAVING
N.T.S.

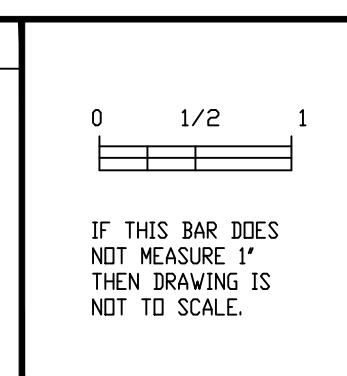
SEE SHEET LC-1.0 FOR CONSTRUCTION LEGEND & NOTES
SEE SHEET LC-1.1 - LC-1.3 FOR CONSTRUCTION PLANS
SEE SHEET LC-2.0 FOR CONSTRUCTION DETAILS



CONNECT MAIN STREET PHASE 1+2			
LANDSCAPE CONSTRUCTION DETAILS			
CITY OF LEMON GROVE, CALIFORNIA		DEVELOPMENT SERVICES DEPARTMENT	
SHEET 32 OF 44 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	
		LC-2.0	

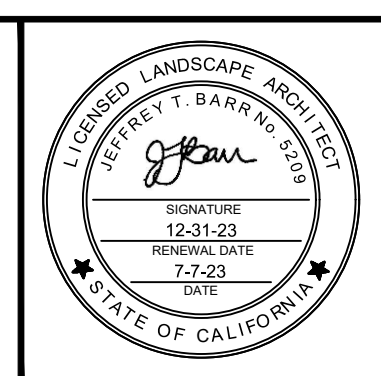
CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK	



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

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STREET DATA TABLE				
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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
	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	1/LI-2.2		WATER METER 1-1/2" HGL 656', POC 424'. CALCULATED PSI READING OF ± 10 PSI = 90 PSI		
	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	1/LI-2.2	---	IRRIGATION LATERAL LINE: PVC SCHEDULE 40		1/LI-2.0
	HUNTER ICZ-101-25 DRIP CONTROL ZONE KIT, 1" ICV GLOBE VALVE WITH 1" HY100 FILTER SYSTEM, PRESSURE REGULATION: 25PSI, FLOW RANGE: 2 GPM TO 20 GPM, 150 MESH STAINLESS STEEL SCREEN.		3/LI-2.0	----	IRRIGATION MAINLINE: SIZE UP TO 1 1/2": PVC SCHEDULE 40 SIZE 2" OR GREATER: PVC CLASS 315 SDR 13.5 IRRIGATION MAINLINE: EXISTING PVC SCHEDULE 40		1/LI-2.0
	RAIN BIRD MDCFCAP DRIPLINE FLUSH VALVE CAP IN COMPRESSION FITTING COUPLER.		5/LI-2.1	-----	PIPE SLEEVE: PVC SCHEDULE 40		7/LI-2.1
	RAIN BIRD MDCFCAP DRIPLINE FLUSH VALVE CAP IN COMPRESSION FITTING COUPLER.		5/LI-2.1		Valve Callout Valve Number Valve Flow Valve Size		
	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.		2/LI-2.2	*	POINT OF CONNECTION EXISTING POINT OF CONNECTION		
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFS-CV-06-18 XFS-CV ON-SURFACE LANDSCAPE DRIPLINE WITH A HEAVY-DUTY 4.3 PSI CHECK VALVE, 0.6 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. SPECIFY XF INSERT FITTINGS.		/	ε	1" SCH 40 CONDUIT FOR 120 VAC POWER TO CONTROLLER		
	EXISTING RAIN BIRD 33-DLRC PER DRAWING HWD #S-15-026.		3/LI-2.1	F	1-1/4" SCH 40 CONDUIT FOR FLOW SENSOR/MASTER VALVE CABLE. PROVIDE 2 - P7162 SHIELDED COMMUNICATION CABLES 16 AWG FOR MASTER VALVE AND FLOW SENSOR.		
	RAIN BIRD 44-LRC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.		2/LI-2.1				
	EXISTING NIBCO T-PP-600LF PER DRAWING HWD #S-15-026.		1/LI-2.1				
	KING BROS BTU SERIES TRUE UNION BALL VALVE SCHEDULE 80 TRUE UNION BALL VALVE WITH SLIP ENDS, LINE SIZE TO MATCH LARGEST CONTROL VALVE AT MANIFOLD.		5/LI-2.0				
	NIBCO T-113K BRONZE GATE VALVE LINE SIZE GATE VALVE WITH FIPT ENDS AND CROSS HANDLE.		6/LI-2.1				
	BUCKNER-SUPERIOR 3100 2" NORMALLY OPEN BRASS MASTER VALVE THAT PROVIDES DIRTY WATER PROTECTION.		8/LI-2.1				
	FEBCO 825YA 1-1/2" REDUCED PRESSURE BACKFLOW PREVENTER WITH SMOOTH TOUCH STAINLESS STEEL BACKFLOW PREVENTER ENCLOSURE- SIZE TO FIT		3/LI-2.2				
	CALSENSE CONTROLLER MODEL: CS3-24-S/CS3-GR-KIT/COMM-5YR-2/FM-1 WITH STAINLESS STEEL CONTROLLER ENCLOSURE. ONLY 14 AWG CONDUIT TO BE RUN BETWEEN CONTROLLER AND FLOW METER		4/LI-2.1				
	HUNTER MINI-CLIK RAIN SENSOR, MOUNT AS NOTED						
	1" FLOW SENSOR CALSENSE MODEL FM-1B						
	CAP FOR FUTURE USE CAP AT THE MAINLINE OR LATERAL LINE FOR FUTURE USE. THE PRESSURE AND FLOW PROVIDED TO THAT LOCATION ARE INDICATED NEXT TO THE CAP SYMBOL.						

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC	PRECIP
1	RAIN BIRD PGA GLOBE	1"	BUBBLER	14	42.0	67.9	3.23 in/h
2	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	6.59	41.8	59.8	0.43 in/h
3	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	5.28	41.4	58.5	0.43 in/h
4	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	7.09	42.8	58.8	0.43 in/h
5	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	6.72	43.2	59.0	0.43 in/h
6	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	4.28	41.2	56.4	0.43 in/h
7	RAIN BIRD PGA GLOBE	1"	BUBBLER	15	37.9	58.2	3.23 in/h
8	HUNTER ICZ-101-25	1"	AREA FOR DRIPLINE	8.84	45.9	58.6	0.43 in/h
9	RAIN BIRD PGA GLOBE	1"	BUBBLER	7	37.6	50.0	3.23 in/h
C7	EXISTING RAIN BIRD PESB	1"	AREA FOR DRIPLINE	0.62	31.2		0.43 in/h
C8	EXISTING RAIN BIRD PESB	1"	BUBBLER	2	32.2		3.23 in/h
Unknown	CAP FOR FUTURE USE		CAP (AS INDICATED FOR FUTURE USE)			10.8	Unknown

CRITICAL ANALYSIS

Generated: 2023-06-20 18:09

P.O.C. NUMBER: 01
Water Source Information: HGL 656'. POC 424'. Calculated PSI reading of ± 10 PSI = 90 PSI

FLOW AVAILABLE
Water Meter Size: 1-1/2"
Flow Available: 75 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 90 PSI
Elevation Change: 5.00 ft
Service Line Size: 12"
Length of Service Line: 20 ft
Pressure Available: 88 PSI

DESIGN ANALYSIS
Maximum Station Flow: 15 GPM
Flow Available at POC: 75 GPM
Residual Flow Available: 60 GPM

Critical Station: 1
Design Pressure: 30 PSI
Friction Loss: 5.1 PSI
Fittings Loss: 0.51 PSI
Elevation Loss: 0.43 PSI
Loss through Valve: 5.94 PSI
Pressure Req. at Critical Station: 42.0 PSI
Loss for Fittings: 0.9 PSI
Loss for Main Line: 8.98 PSI
Loss for POC to Valve Elevation: 3.9 PSI
Loss for Backflow: 11.2 PSI
Loss for Master Valve: 0.53 PSI
Loss for Water Meter: 0.38 PSI
Critical Station Pressure at POC: 67.9 PSI
Pressure Available: 88 PSI
Residual Pressure Available: 20.1 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 DESIGN IS BASED UPON A MAXIMUM OPERATING PRESSURE OF 100 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: 8,541 SQ FT

State of CA Model Water Efficient Landscape Ordinance (MWEL0) Update Impact Comparison

Project Name: CONNECT MAIN STREET PHASE 1+2

2015 Executive Order EO B-29-15 MWEL0 CALCS - MAWA & ETWU PROJECT WATER USE ANALYSIS

Description	MAWA		ETWU		Hydrozones			Total Usage
	ETAF	High Water Use	ETAF	High Water Use	Low Water Use Drip	Low Water Use Spray	Low Water Use	
Total Landscape Area (Square Feet)	8,541.00		8,541.00		8,541.00		8,541.00	8,541.00 SqFt
Special Landscape Area (SLA)	0.00	SLA Hydro Area	0.00	0.00	0.00	0.00	0.00	0.00 SqFt
Irrigation Efficiency (IE)	NA	Irrigation Efficiency (IE)	Irig Type: 0.75	Irig Type: 0.81	Irig Type: 0.75	Irig Type: 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=0.3, VL=2.0)	NA	Plant Factor (PF)	0.8	0.5	0.3	0.3		
ET Adjustment Factor (ETAF) for non residential projects	0.45	ETAF (PFIE)	1.07	0.62	0.40	0.40		
Conversion Factor (Inches to Gallons)	0.62	Conversion Factor	0.62	0.62	0.62	0.62		
Eto x .82 x (ETAF x Land Area) + ((1-ETAF) x SLA)	111,998	(ETAF x Area)	0.00	0.00	0.00	0.00	3,416.40	3,416.40 SqFt
		(Eto x .82 x (ETAF x Area))	0	0	0	0	99,584	99,584 SqFt
		(Eto x .82 x (SLA Area))	0.00	0.00	0.00	0.00	0.00	0.00 SqFt
Total Gallons per year	111,998	Project Average ETAF	0.40				99,584	99,584 Gal/yr

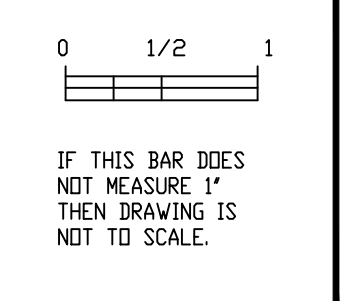
Anticipated evapotranspiration rates for the site are based on historical averages. IE = All overhead spray = 0.75, Subsurface irrigation such as Bubblers and Drip = 0.81. Data from the C.I.M.I.S. (California Irrigation Management Information System) Station # 150 was used.

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

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 1+2

LANDSCAPE IRRIGATION LEGEND & NOTES

CITY OF LEMON GROVE, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 33 OF 44 SHEETS

FOR CITY ENGINEER* DATE: 7/20/23 TM/TPM

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

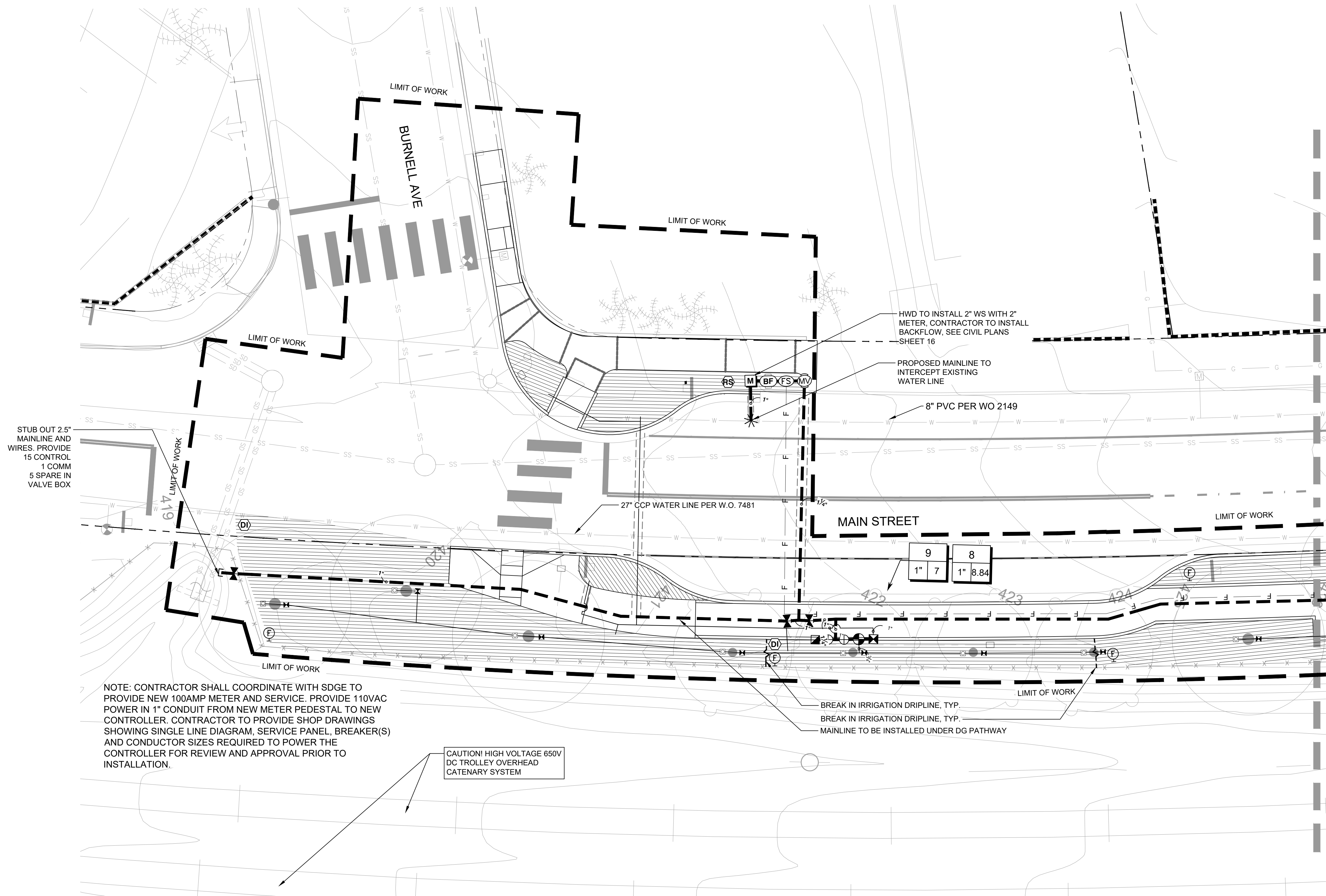
LI-1.0

SCHMIDT DESIGN GROUP
110 Rossmore St, Suite G, San Diego, CA 92106
619.238.9462
LIC. CA 7138 (INV 391) A2 3439
SCHMIDTDESIGN.COM

SDG PROJECT #: 20-108
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.



STUB OUT 2.5" MAINLINE AND WIRES. PROVIDE 15 CONTROL 1 COMM 5 SPARE IN VALVE BOX

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.

CAUTION! HIGH VOLTAGE 650V DC TROLLEY OVERHEAD CATENARY SYSTEM

HWD TO INSTALL 2" WS WITH 2" METER, CONTRACTOR TO INSTALL BACKFLOW, SEE CIVIL PLANS SHEET 16

PROPOSED MAINLINE TO INTERCEPT EXISTING WATER LINE

8" PVC PER WO 2149

27" CCP WATER LINE PER W.O. 7481

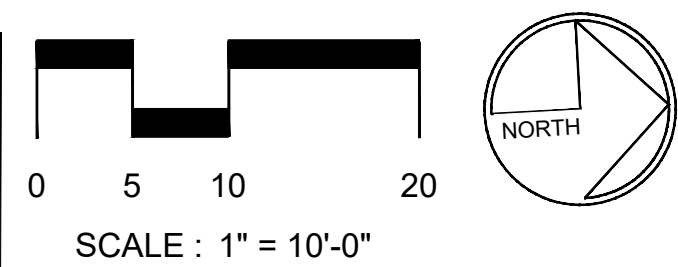
MAIN STREET

9 1" 7
8 1" 8.84

BREAK IN IRRIGATION DRIPLINE, TYP.
BREAK IN IRRIGATION DRIPLINE, TYP.
MAINLINE TO BE INSTALLED UNDER DG PATHWAY

MATCH LINE SEE SHEET LI-1.2

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.



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SEE SHEET LI-1.1 - LI-1.3 FOR IRRIGATION PLANS
SEE SHEET LI-2.0 - LI-2.2 FOR IRRIGATION DETAILS

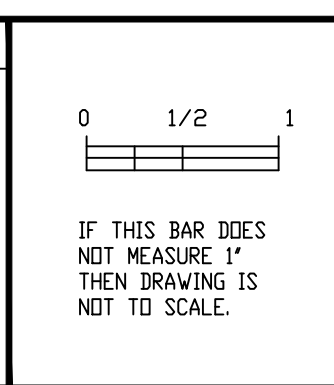


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CONNECT MAIN STREET PHASE 1+2			
LANDSCAPE IRRIGATION PLAN			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 34 OF 44 SHEETS		7/20/23	
FOR CITY ENGINEER*	DATE	TM/TPM	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	SDG		
AS-BUILTS		1848-6321 NAD83 COORDINATES	
CONTRACTOR		206-1755 & 210-1755 LAMBERT COORDINATES	
INSPECTOR	DATE STARTED	DATE COMPLETED	
		LI-1.1	

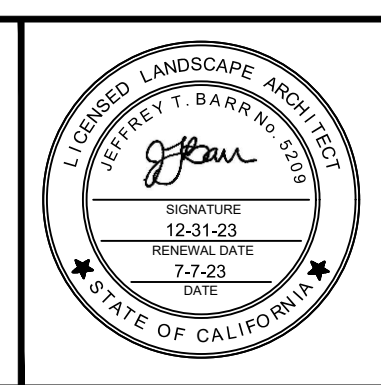
CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK

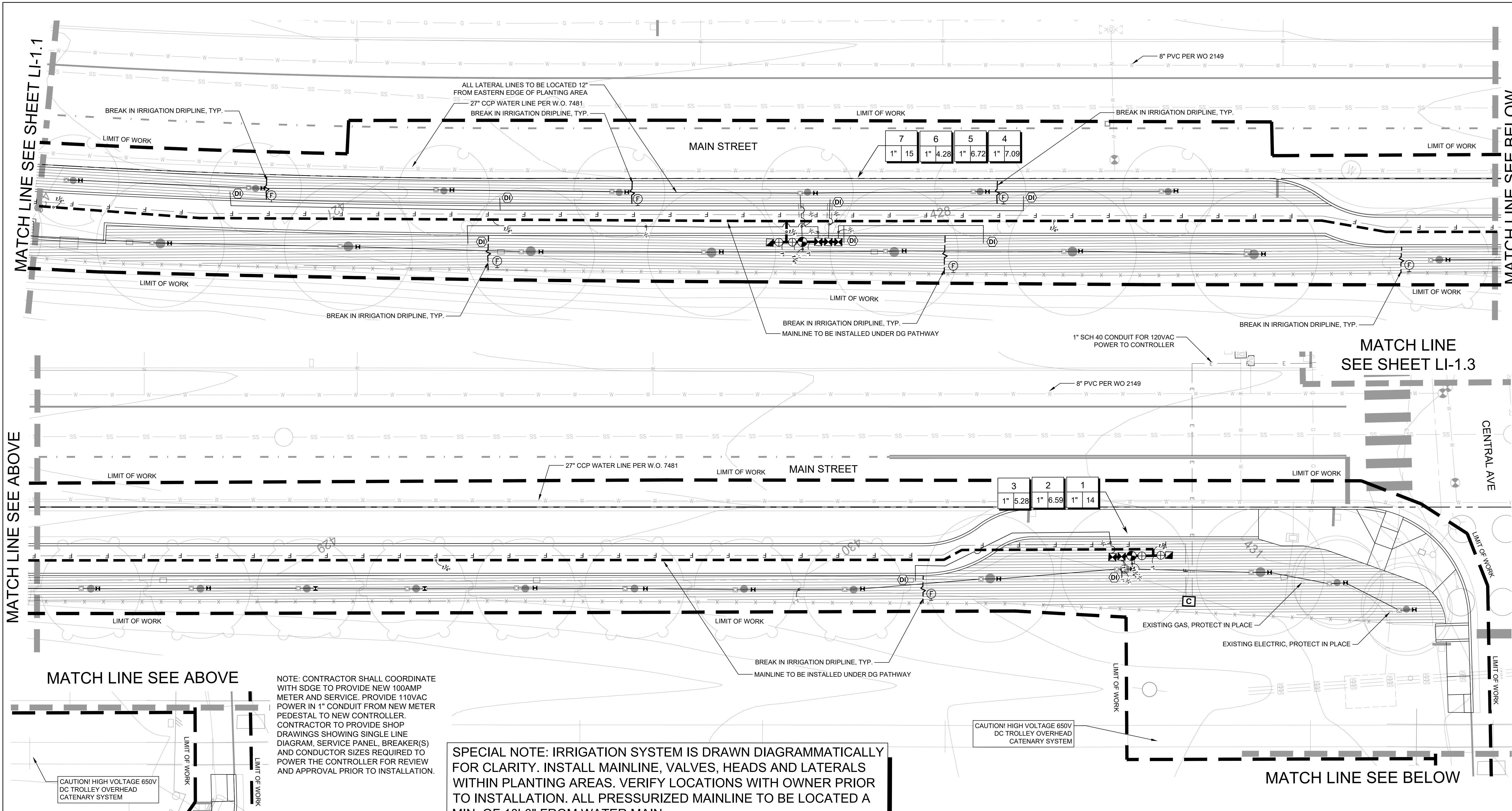


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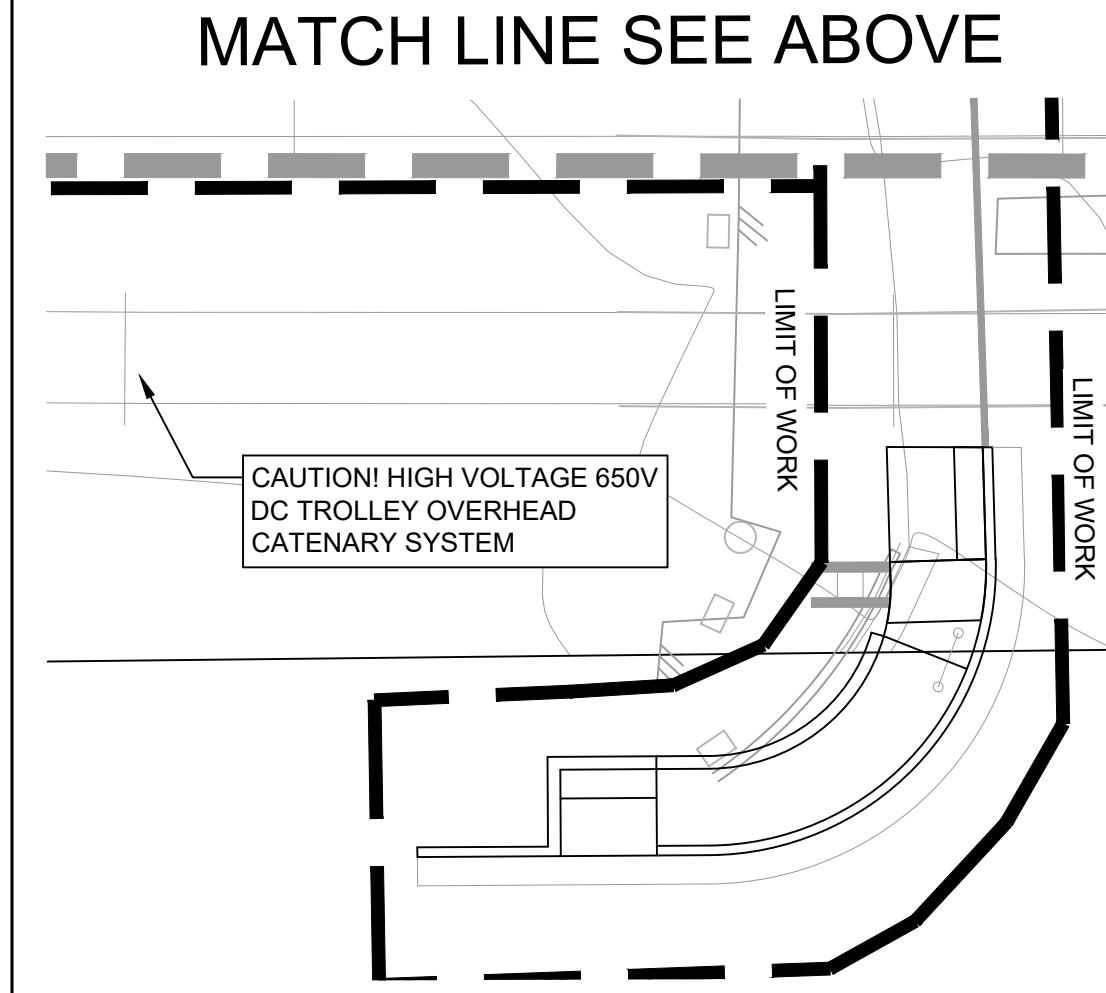
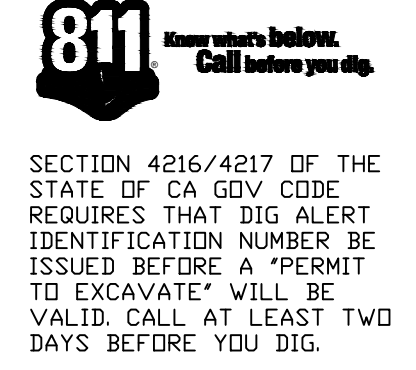
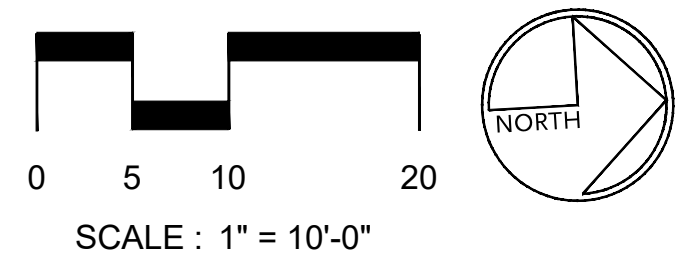
STREET DATA TABLE				
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MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40



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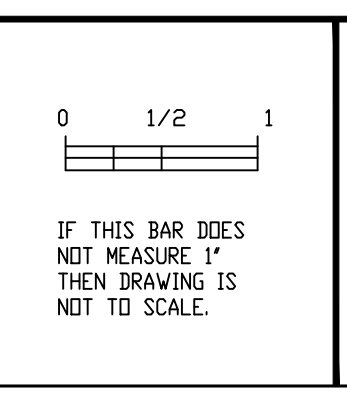
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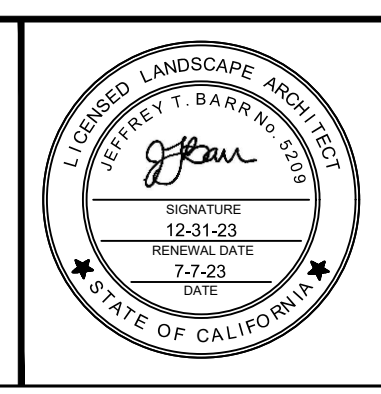
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BENCHMARK	



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CONNECT MAIN STREET PHASE 1+2

LANDSCAPE IRRIGATION PLAN

CITY OF LEMON GROVE, CALIFORNIA
 DEVELOPMENT SERVICES DEPARTMENT
 SHEET 35 OF 44 SHEETS

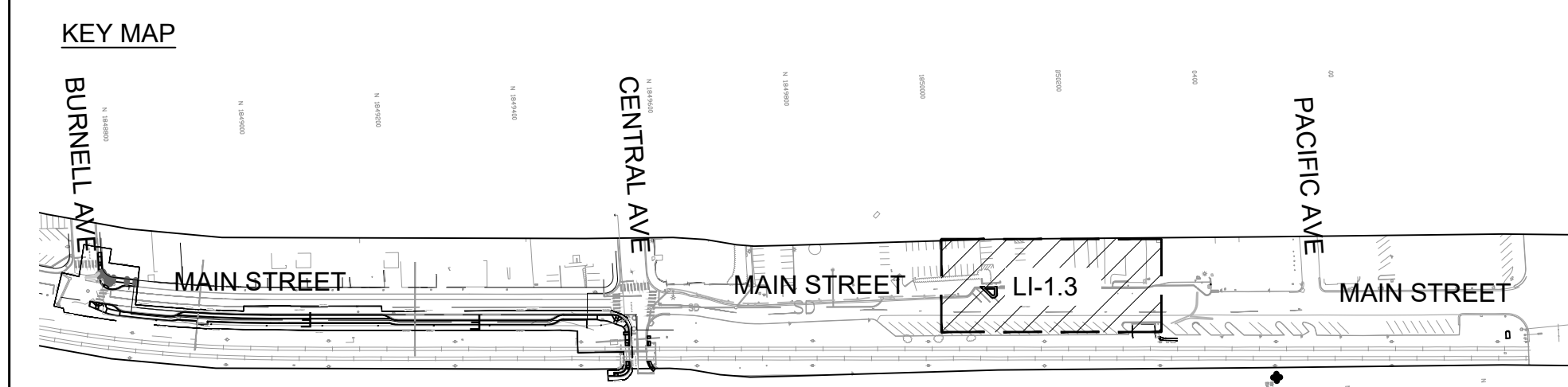
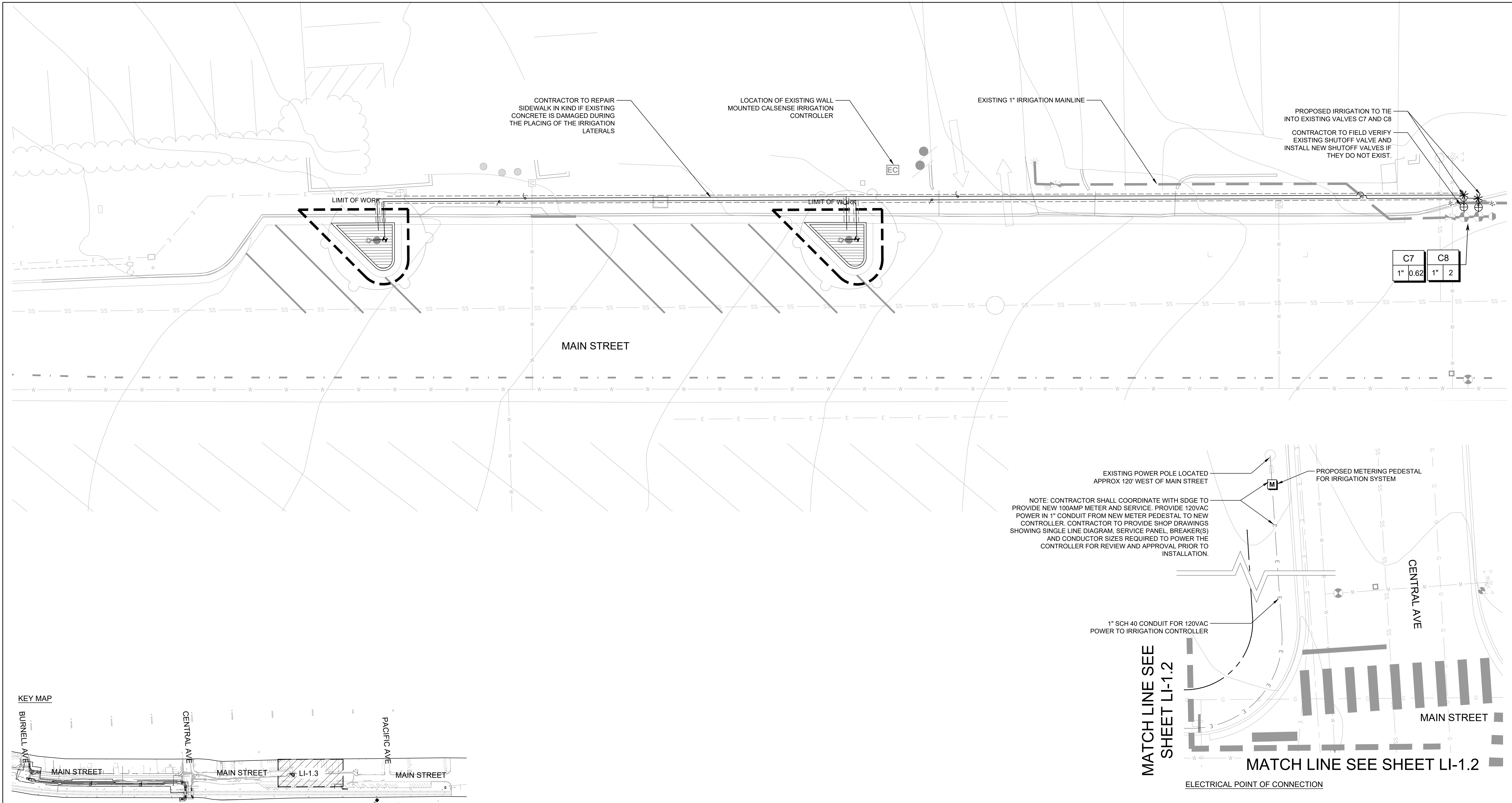
DATE: 7/20/23

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SDG			
AS-BUILTS				

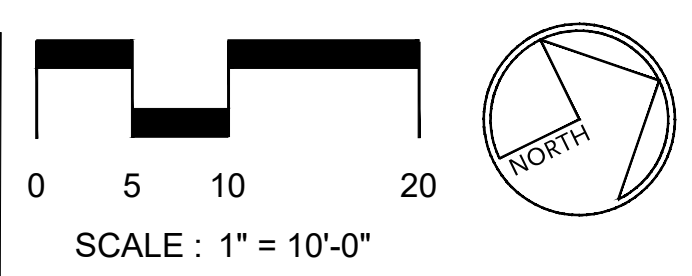
CONTRACTOR: _____ DATE STARTED: _____
 INSPECTOR: _____ DATE COMPLETED: _____

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

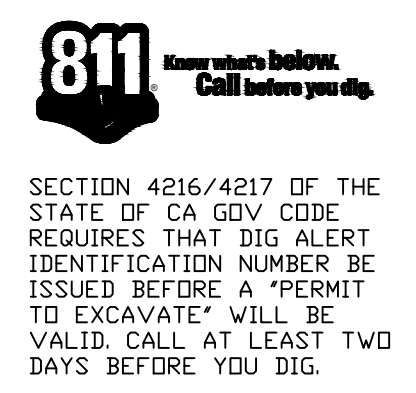
LI-1.2



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CONNECT MAIN STREET PHASE 1+2

LANDSCAPE IRRIGATION PLAN

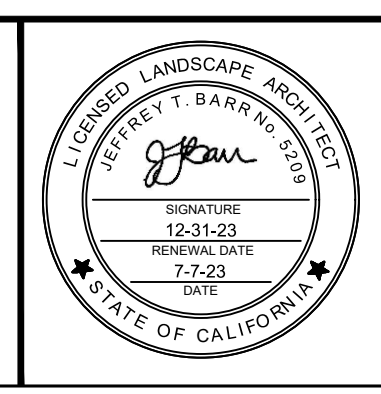
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 38 OF 44 SHEETS		DATE: 7/20/23	TM/TPM
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	SDG		
AS-BUILTS			
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		1848-6321 NAD83 COORDINATES	
		206-1755 & 210-1755 LAMBERT COORDINATES	
			LI-1.3

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK	

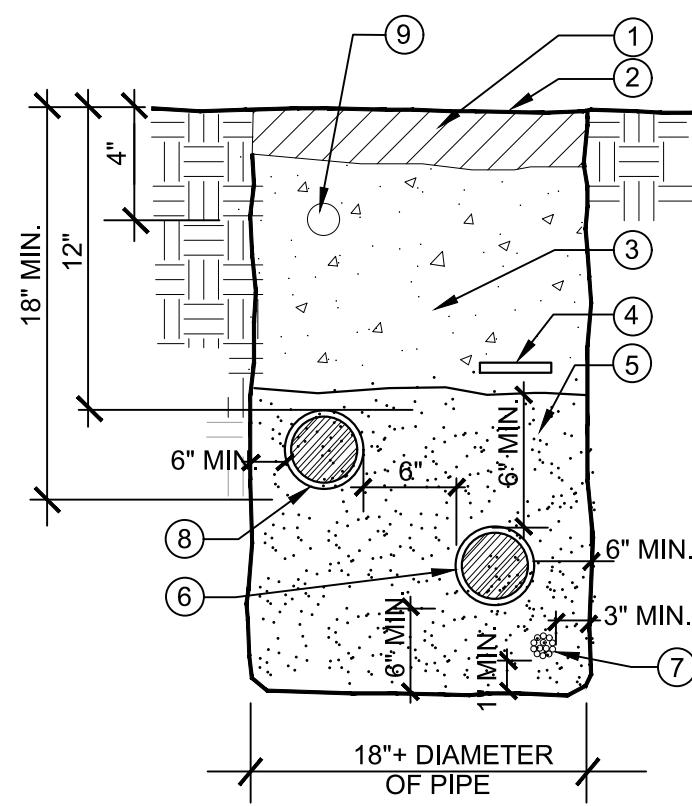
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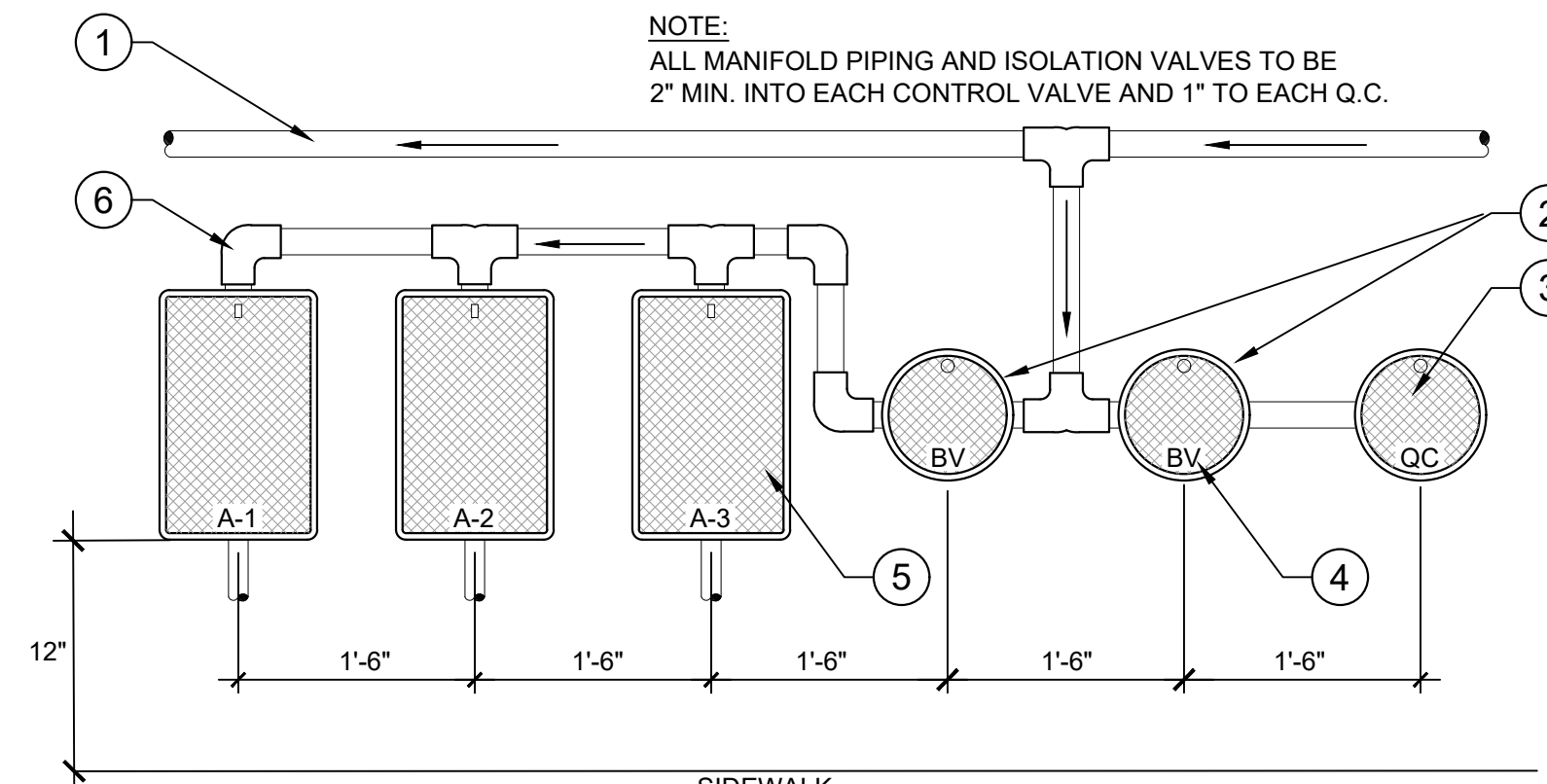


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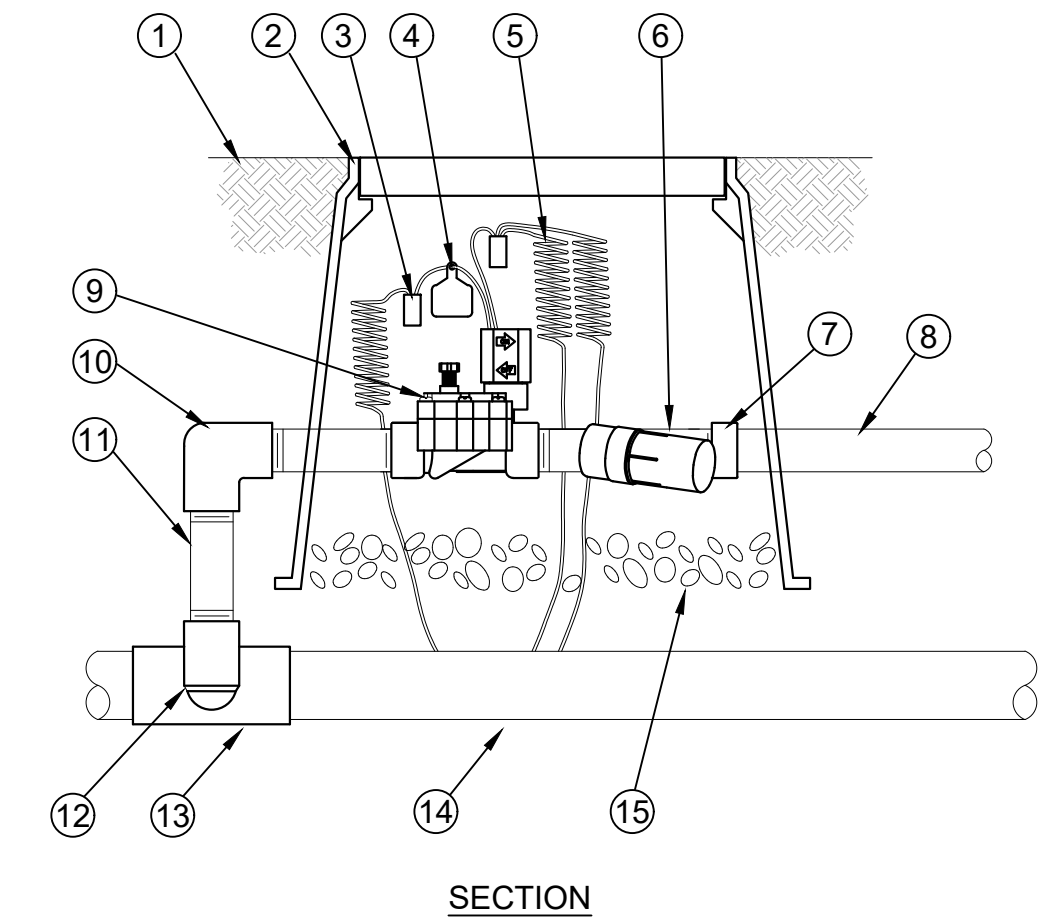
FINAL CONSTRUCTION DRAWINGS



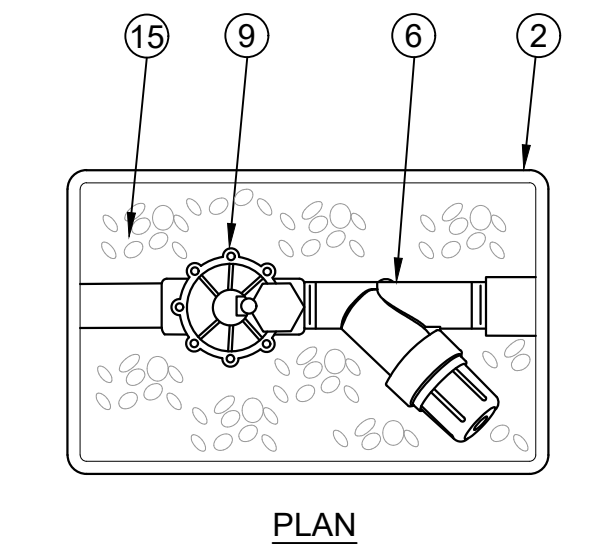
- LEGEND:**
- IMPORTED TOPSOIL OR AMENDED NATIVE SOIL
 - FINISHED GRADE
 - NATIVE SOIL FREE OF ROCKS AND DEBRIS 3" OR GREATER
 - TRENCH MARKER
 - SAND BEDDING MATERIAL
 - IRRIGATION MAINLINE
 - DIRECT BURIAL CONTROL WIRES
 - IRRIGATION LATERAL LINE
 - IN LINE DRIP TUBING
- NOTES:**
- TRENCH MARKER SHALL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



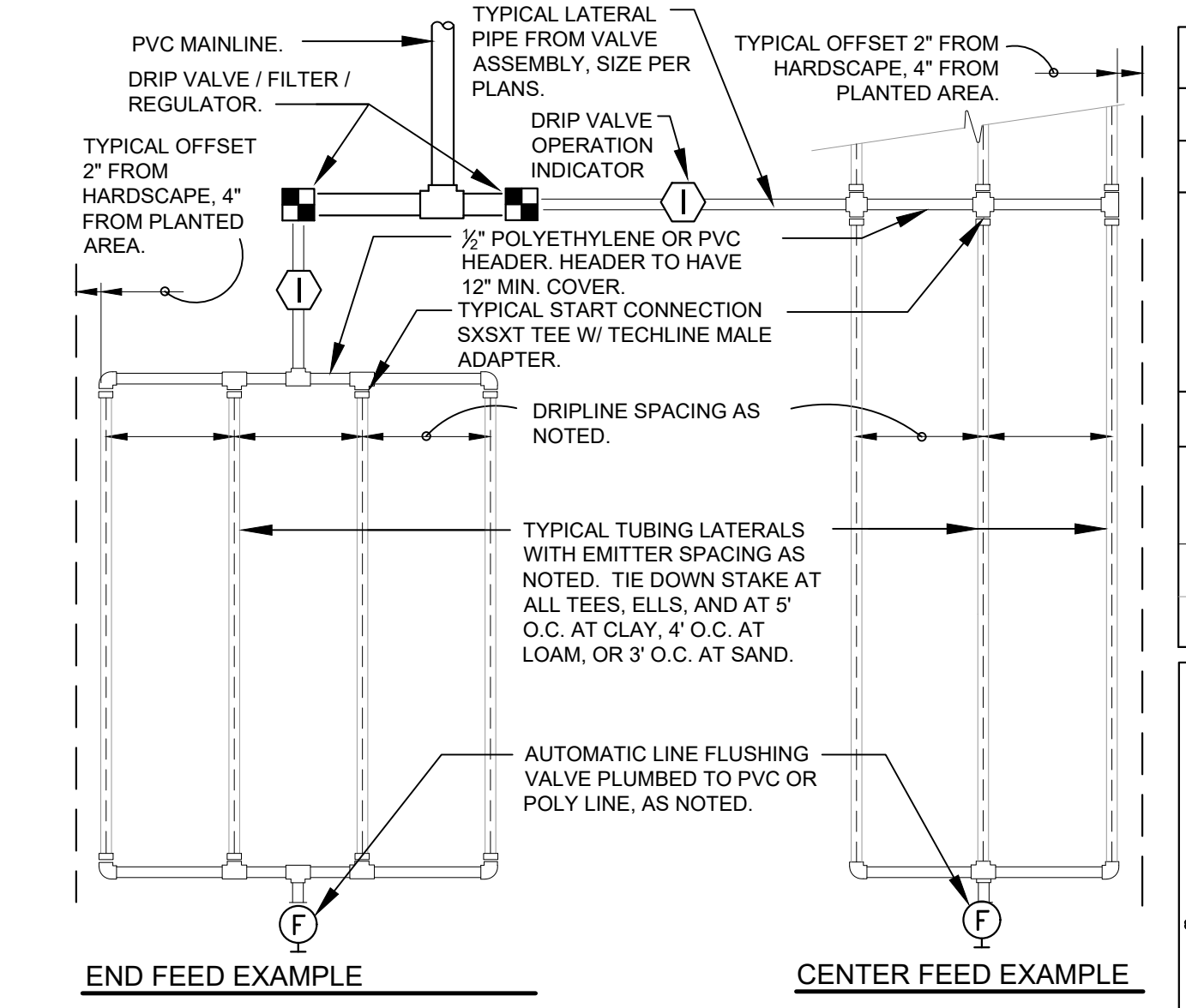
- NOTE:** ALL MANIFOLD PIPING AND ISOLATION VALVES TO BE 2" MIN. INTO EACH CONTROL VALVE AND 1" TO EACH Q.C.
- LEGEND:**
- PRESSURE SUPPLY LINE (SEE PLAN FOR SIZE)
 - BALL VALVES (SEE IRRIGATION LEGEND)
 - QUICK COUPLER (SEE IRRIGATION LEGEND)
 - HEAT BRAND ALL VALVES
 - ELECTRIC CONTROL VALVE
 - MANIFOLD 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:**
- FINISH GRADE
 - VALVE BOX WITH COVER PER IRRIGATION SPECIFICATIONS
 - WATERPROOF CONNECTION, TYPICAL
 - VALVE ID TAG
 - 30-INCH LINEAR LENGTH OF WIRE, COILED
 - PRESSURE REGULATING FILTER PER MANUFACTURER'S RECOMMENDATIONS
 - PVC SCH 40 FEMALE ADAPTOR
 - LATERAL PIPE
 - REMOTE CONTROL VALVE AS SPECIFIED ON IRRIGATION LEGEND
 - PVC SCH 40 ELL
 - PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
 - PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
 - PVC SCH 40 TEE OR ELL
 - PVC MAINLINE
 - 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL



1 MAINLINE/DIRECT BURIAL CONTROL WIRE
NO SCALE



4 TYPICAL DRIPLINE REQUIREMENTS
NO SCALE

2 MANIFOLD CONFIGURATION
NO SCALE

RAIN BIRD XFC-CV MAXIMUM LENGTH OF SINGLE LATERAL (FEET)

EMITTER SPACING	12"		18"	
	0.6	0.9	0.6	0.9
20	192	136	254	215
30	289	205	402	337
40	350	248	498	416
50	397	281	573	477

RAIN BIRD XFC-CV FLOW PER 100 FEET

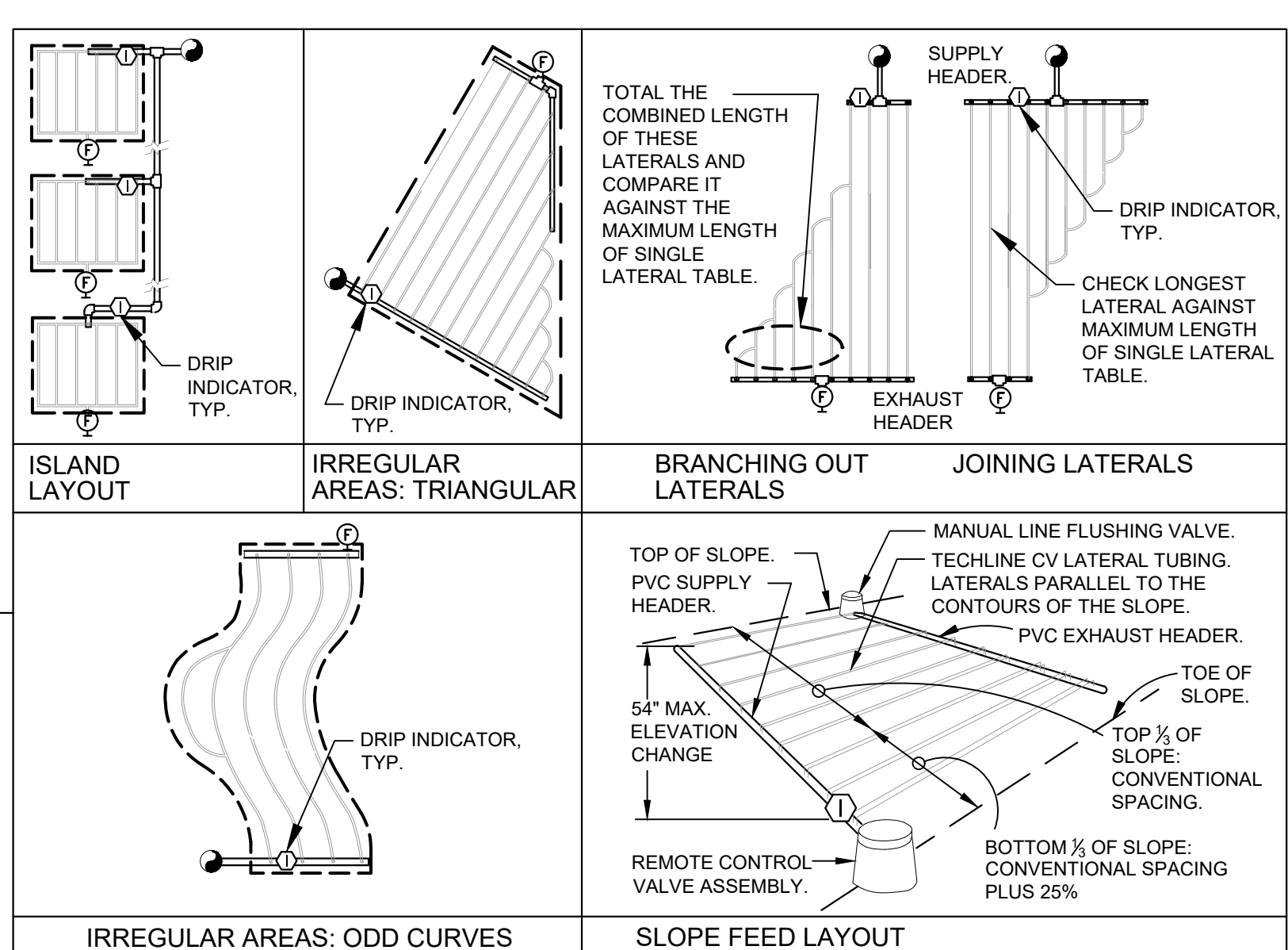
EMITTER SPACING	0.4 GPH EMITTER		0.6 GPH EMITTER		0.9 GPH EMITTER	
	GPH	GPM	GPH	GPM	GPH	GPM
12"	42.0	0.70	61.0	1.02	92.0	1.53
18"	28.0	0.47	41.0	0.68	61.0	1.02

LEGEND:

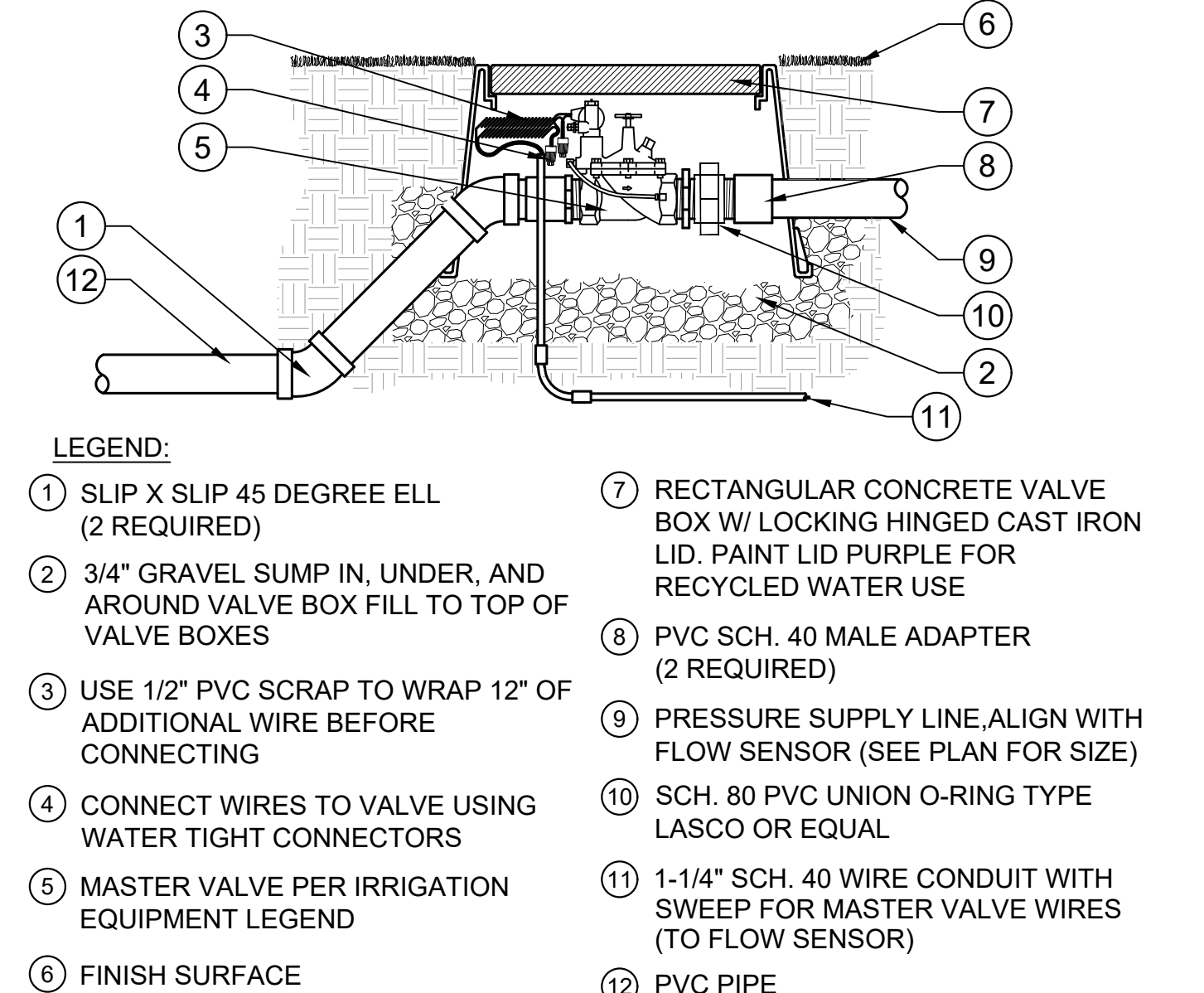
- WATER SOURCE: DRIP VALVE OR LATERAL FROM VALVE.
- TYPICAL SUPPLY HEADER.
- TYPICAL DRIPPER LINE TUBING TO BE BURIED 4" BELOW FINISH GRADE IN LANDSCAPE AREAS (1" BELOW FINISH GRADE IN PLANTER POTS).
- TYPICAL PVC OR POLY SUPPLY OR EXHAUST HEADER TO BE BURIED MIN 12" BELOW GRADE.
- AUTOMATIC LINE FLUSH VALVE PLUMBED TO PVC OR POLY.
- TYPICAL DRIP INDICATOR.

NOTE: CONTRACTOR TO PROVIDE DRIP INDICATOR IN EACH PLANTING AREA IRRIGATED WITH DRIP IRRIGATION.

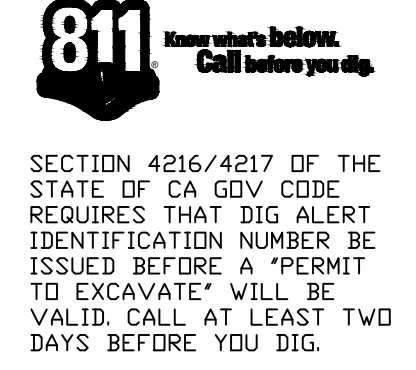
3 TYPICAL DRIP CONTROL VALVE KIT
NO SCALE



5 MASTER VALVE
NO SCALE



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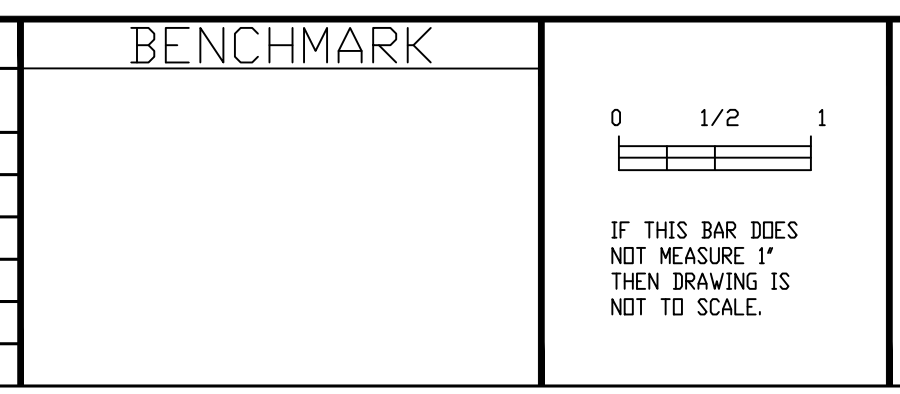
CONNECT MAIN STREET PHASE 1+2

LANDSCAPE IRRIGATION DETAILS

CITY OF LEMON GROVE, CALIFORNIA		DEVELOPMENT SERVICES DEPARTMENT		SHEET 37 OF 44 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					206-1755 & 210-1755 LAMBERT COORDINATES
INSPECTOR					LI-2.0

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS



CHEN + RYAN ASSOCIATES

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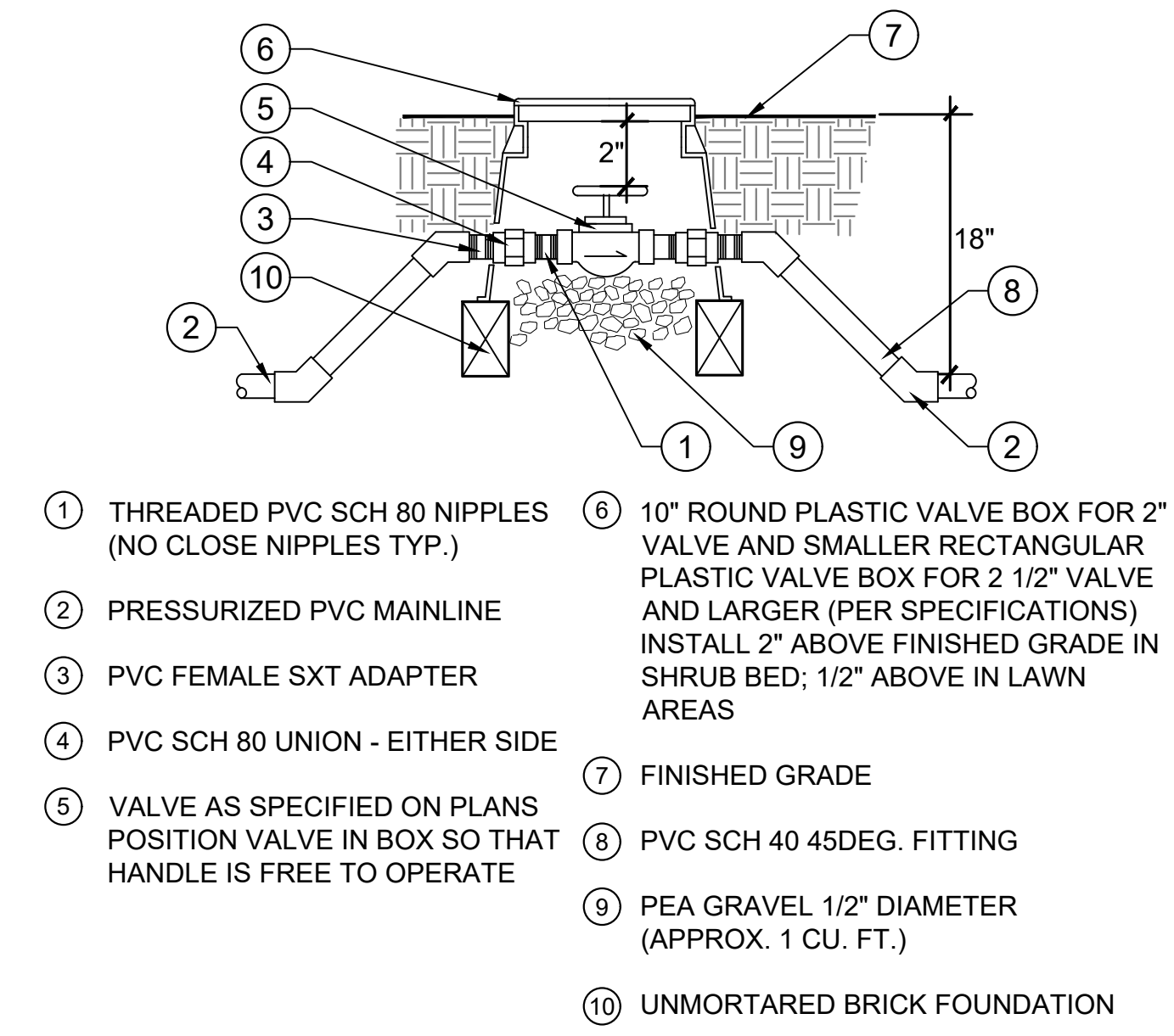
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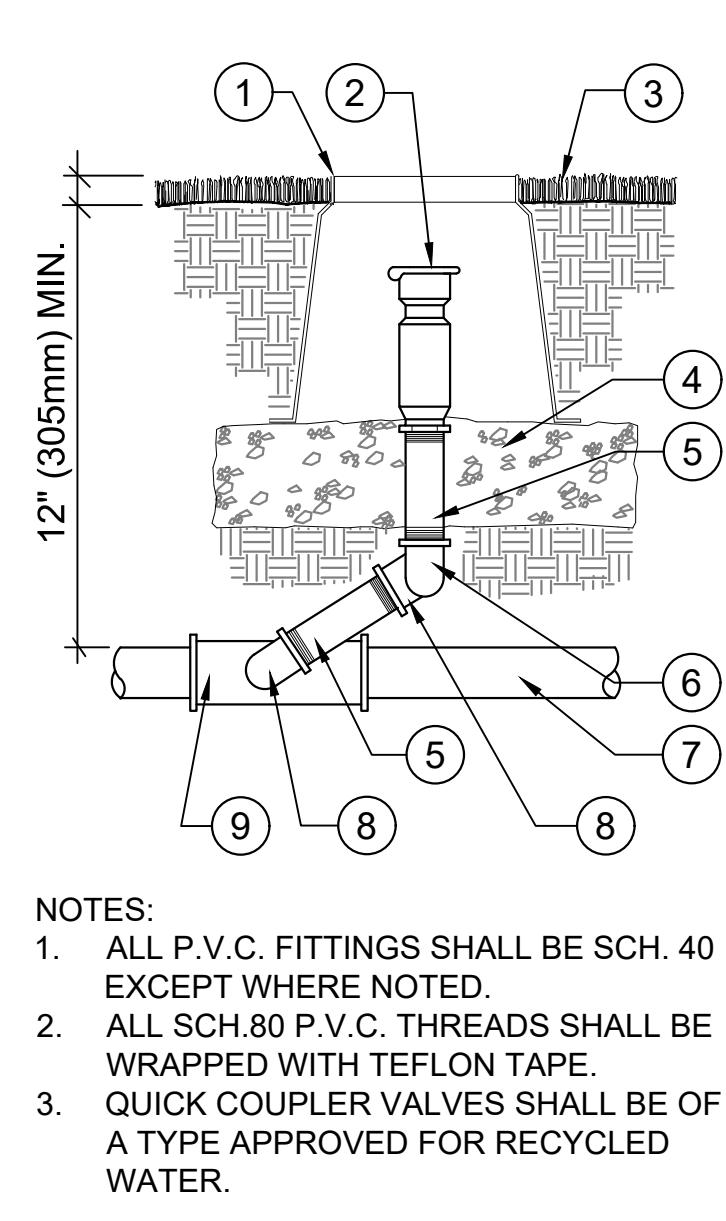
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FINAL CONSTRUCTION DRAWINGS



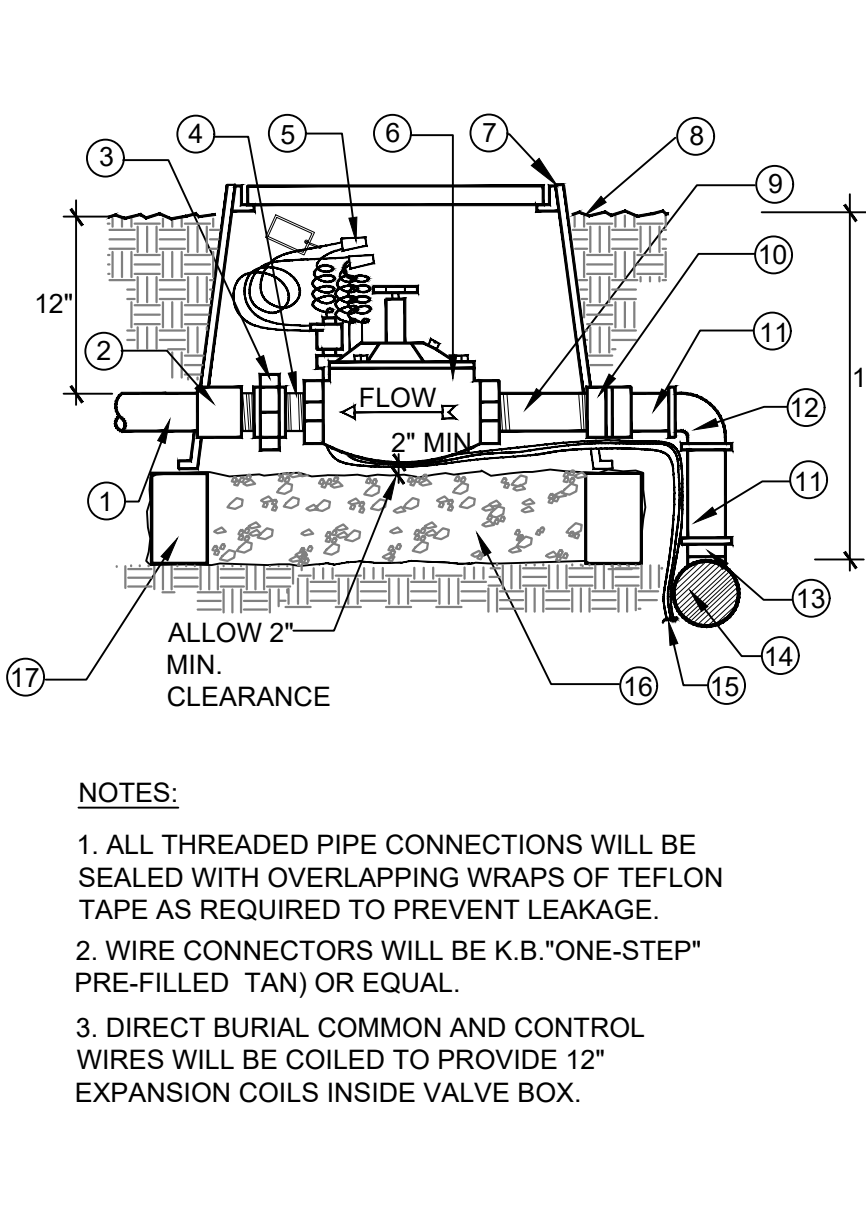
1 BALL / GATE ISOLATION VALVE
NOT TO SCALE



2 QUICK COUPLER
NO SCALE

LEGEND:

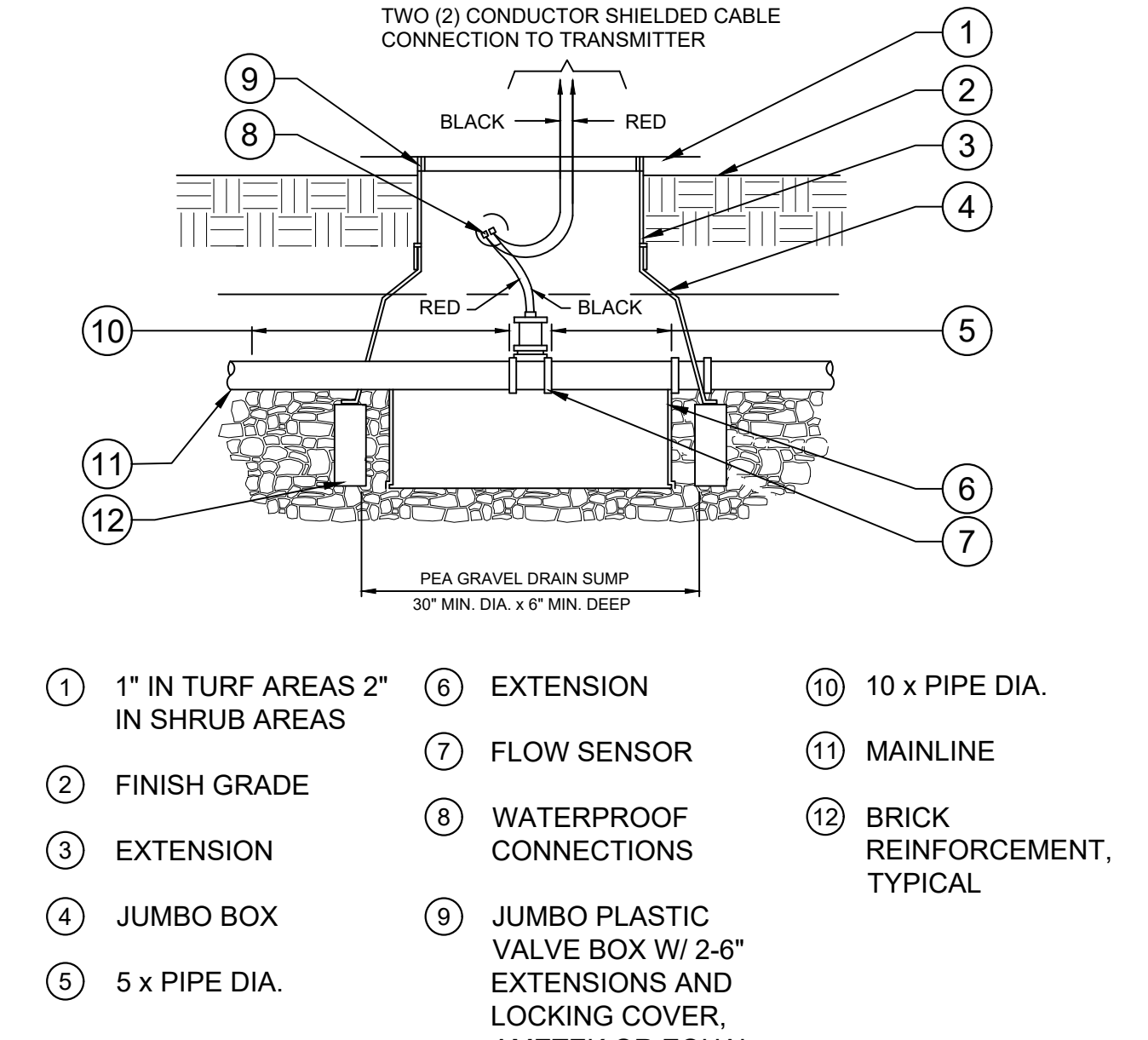
- 10" (254mm) ROUND PLASTIC VALVE BOX WITH LOCKING COVER AND Q.C. LABELED TOP.
- QUICK COUPLER VALVE WITH ACME THREADS PER PLANS.
- FINISH GRADE. ALLOW 2" (50mm) DEPTH FOR TOP MULCH OR 1" DEPTH AT LAWN
- ONE CUBIC FOOT (.03m) PEA GRAVEL.
- SCH.80 P.V.C. NIPPLE.
- P.V.C. ELL (TXT).
- SCH.40 P.V.C. MAINLINE.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



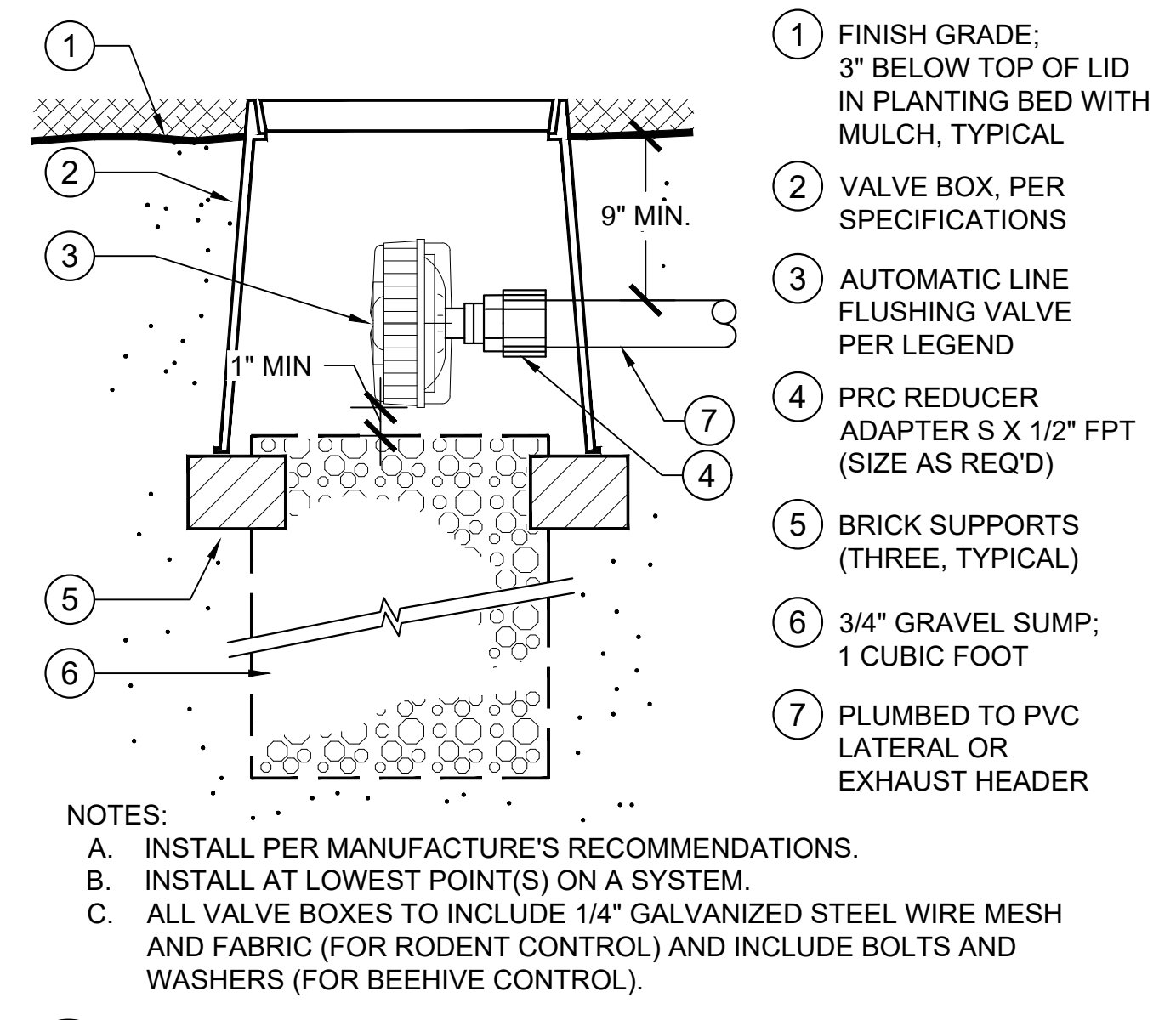
3 REMOTE CONTROL VALVE
No Scale

LEGEND:

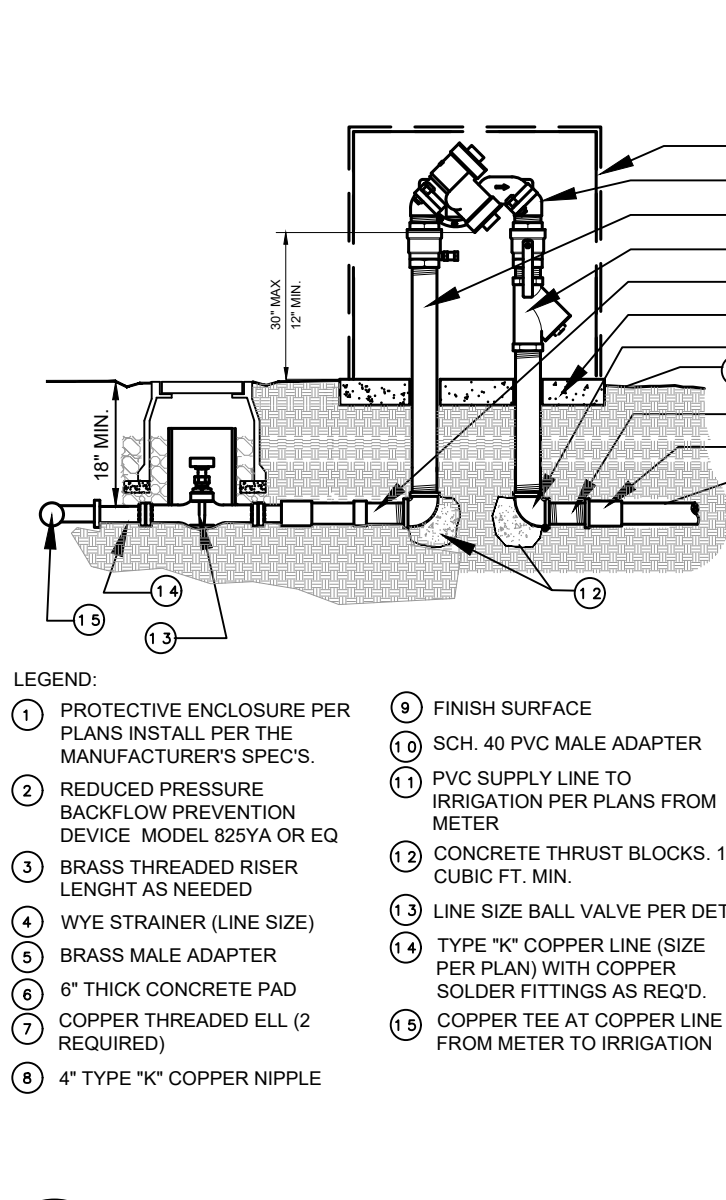
- P.V.C LATERAL LINE PER LEGEND.
- P.V.C. MALE ADAPTER
- SCH. 80 P.V.C. UNION (TXT) O-RING TYPE LASCO OR EQUAL
- SCH.80 P.V.C. NIPPLE
- WATERPROOF WIRE CONNECTORS PER NOTES
- REMOTE CONTROL ELECTRIC VALVE PER LEGEND
- 12" RECTANGULAR PLASTIC VALVE BOX (CARSON) WITH LOCKING LID, CONTROLLER AND VALVE NUMBER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



4 FLOW SENSOR
NO SCALE



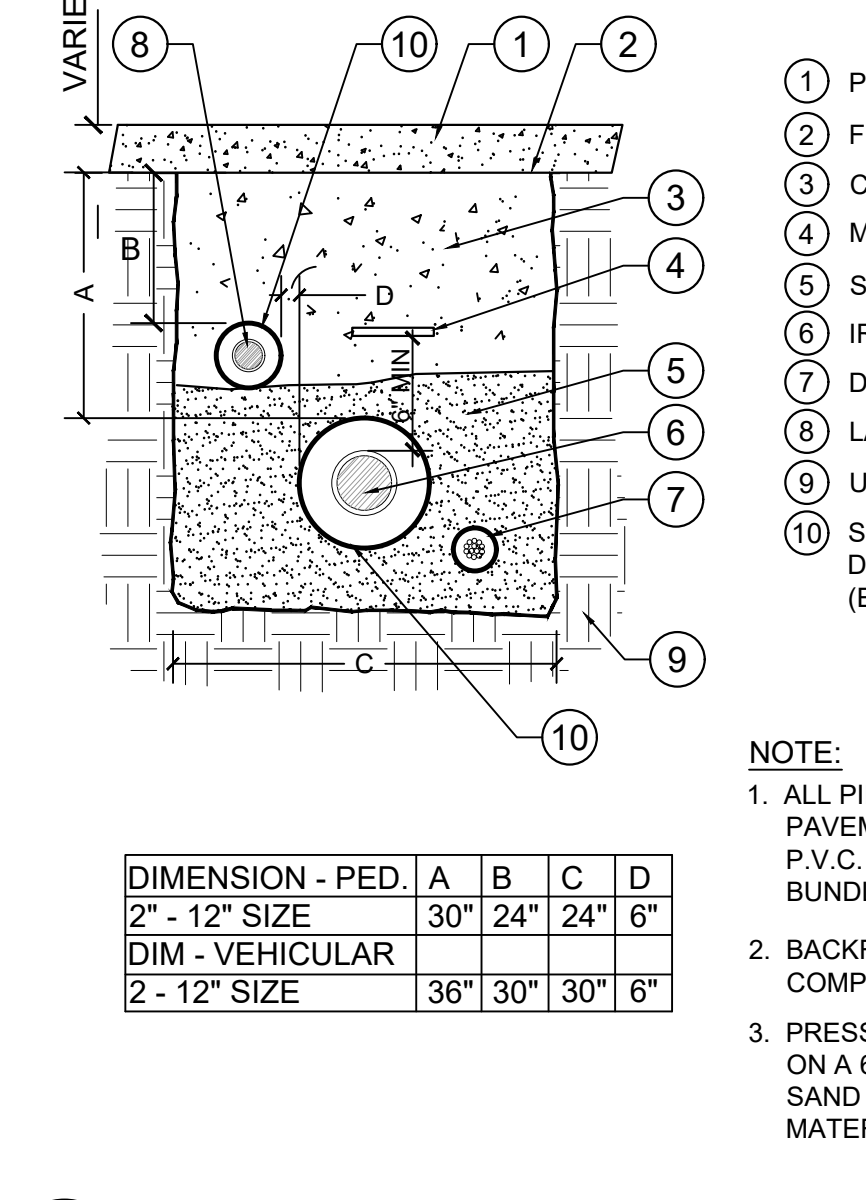
5 AUTOMATIC FLUSH VALVE
NO SCALE



6 BACKFLOW PREVENTER ASSEMBLY
NTS

LEGEND:

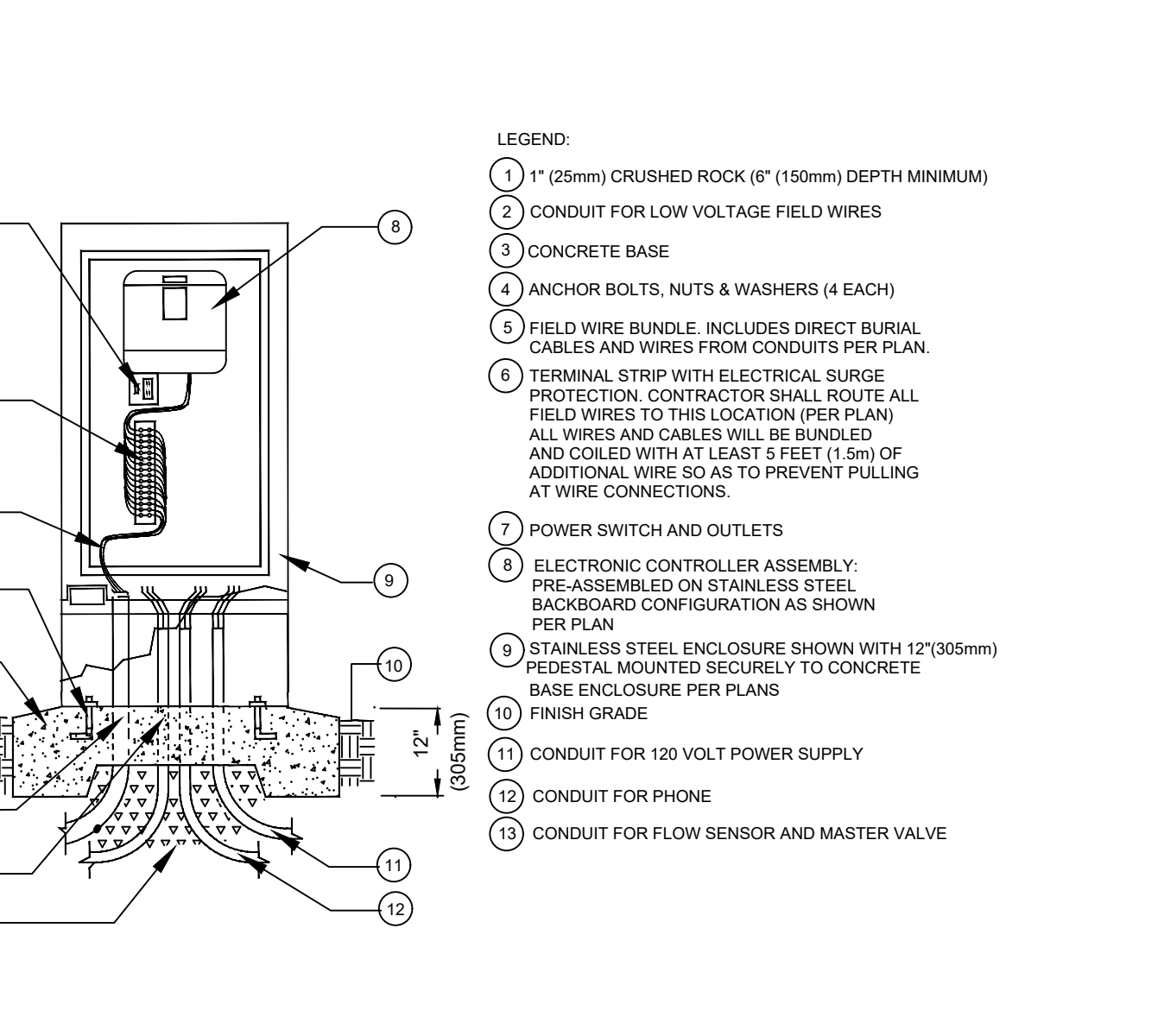
- PROTECTIVE ENCLOSURE PER PLANS INSTALL PER THE MANUFACTURER'S SPECS.
- REDUCED PRESSURE BACKFLOW PREVENTION DEVICE MODEL 825YA OR EQ LENGTH AS NEEDED
- WYE STRAINER (LINE SIZE)
- BRASS MALE ADAPTER
- 6" THICK CONCRETE PAD
- COPPER THREADED ELL (2 REQUIRED)
- 4" TYPE "K" COPPER NIPPLE
- FINISH SURFACE
- SCH. 40 PVC MALE ADAPTER
- PVC SUPPLY LINE TO IRRIGATION PER PLANS FROM METER
- CONCRETE THRUST BLOCKS, 1 CUBIC FT. MIN.
- LINE SIZE BALL VALVE PER DETAIL
- TYPE "K" COPPER LINE (SIZE PER PLAN) WITH COPPER SOLDER FITTINGS AS REQ'D.
- COPPER TEE AT COPPER LINE FROM METER TO IRRIGATION



7 SLEEVING UNDER PAVEMENT
NTS

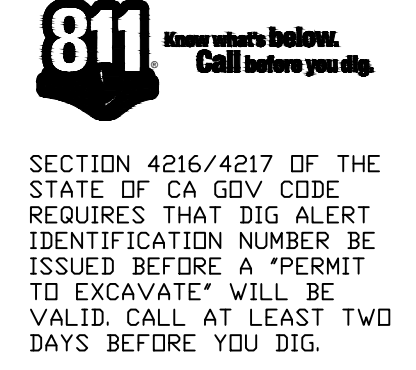
LEGEND:

- 1" (25mm) CRUSHED ROCK (6" (150mm) DEPTH MINIMUM)
- CONDUIT FOR LOW VOLTAGE FIELD WIRES
- CONCRETE BASE
- ANCHOR BOLTS, NUTS & WASHERS (4 EACH)
- FIELD WIRE BUNDLE. INCLUDES DIRECT BURIAL CABLES AND WIRES FROM CONDUITS PER PLAN.
- TERMINAL STRIP WITH ELECTRICAL SURGE PROTECTION. CONTRACTOR SHALL ROUTE ALL FIELD WIRES TO THIS LOCATION PER PLAN. ALL WIRES AND CABLES WILL BE BUNDLED AND COILED WITH AT LEAST 5 FEET (1.5m) OF ADDITIONAL WIRE SO AS TO PREVENT PULLING AT WIRE CONNECTIONS.
- POWER SWITCH AND OUTLETS
- ELECTRONIC CONTROLLER ASSEMBLY: PRE-ASSEMBLED ON STAINLESS STEEL BACKBOARD CONFIGURATION AS SHOWN PER PLAN
- STAINLESS STEEL ENCLOSURE SHOWN WITH 12"(305mm) PEDESTAL MOUNTED SECURELY TO CONCRETE BASE ENCLOSURE PER PLANS
- FINISH GRADE
- CONDUIT FOR 120 VOLT POWER SUPPLY
- CONDUIT FOR PHONE
- CONDUIT FOR FLOW SENSOR AND MASTER VALVE



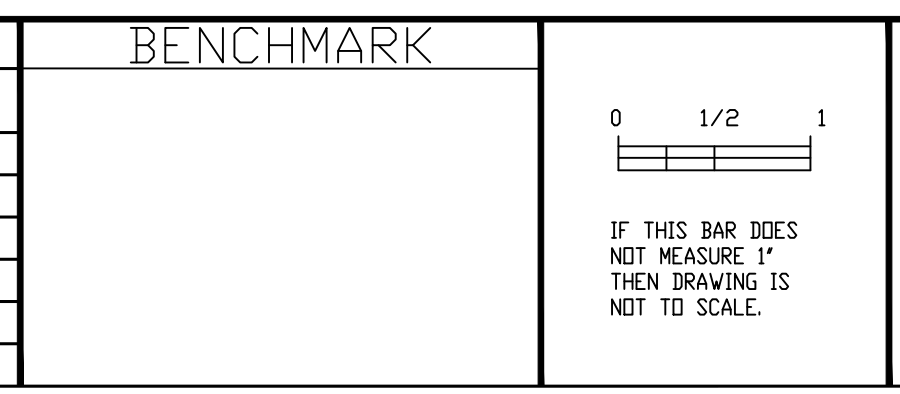
8 CONTROLLER WITH STAINLESS STEEL ENCLOS.
NTS

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



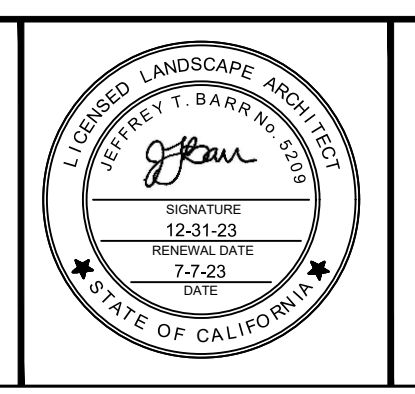
CONNECT MAIN STREET PHASE 1+2			
LANDSCAPE IRRIGATION DETAILS			
CITY OF LEMON GROVE, CALIFORNIA		DEVELOPMENT SERVICES DEPARTMENT	
SHEET 38 OF 44 SHEETS		DATE: 7/20/23	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	SDG		
AS-BUILTS			
CONTRACTOR	DATE STARTED		
INSPECTOR	DATE COMPLETED		
1848-6321		NAD83 COORDINATES	
206-1755 & 210-1755		LAMBERT COORDINATES	
		LI-2.1	

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

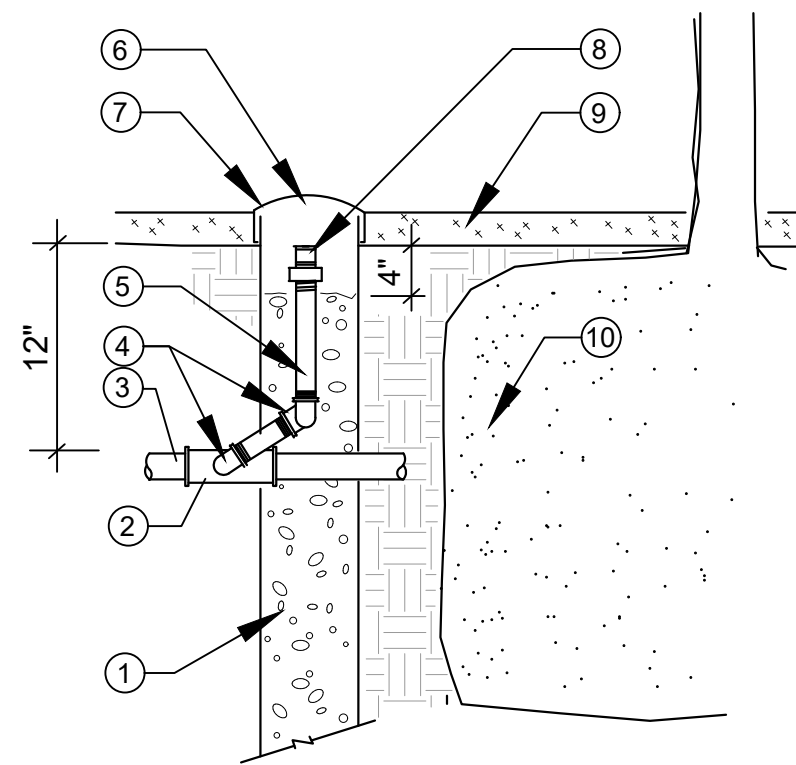


CHEN + RYAN ASSOCIATES
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CAUTION!
LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

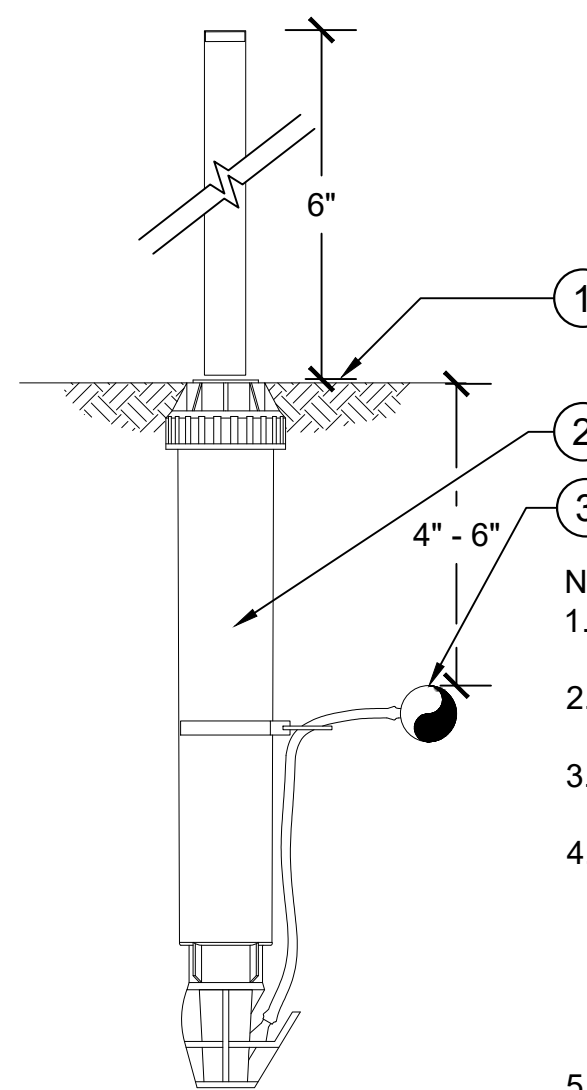


STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40



- LEGEND:**
- ① 6" DIAM. PERFORATED PLASTIC DRAIN PIPE 36" LENGTH - FILL WITH 3/4" CRUSHED AGGREGATE
 - ② PVC TEE OR ELL
 - ③ PVC LATERAL LINE PER PLAN
 - ④ MARLEX STREET ELL (3 TOTAL) SIZE PER HEAD INLET
 - ⑤ 1/2" SCH.80 P.V.C. RISER
 - ⑥ WATER BASIN (SEE PLANTING DETAILS)
 - ⑦ FRICTION FIT ACCESS CAP (DO NOT GLUE)
 - ⑧ BUBBLER PER PLAN (TWO PER TREE)
 - ⑨ MULCH LAYER
 - ⑩ PLANT ROOT BALL

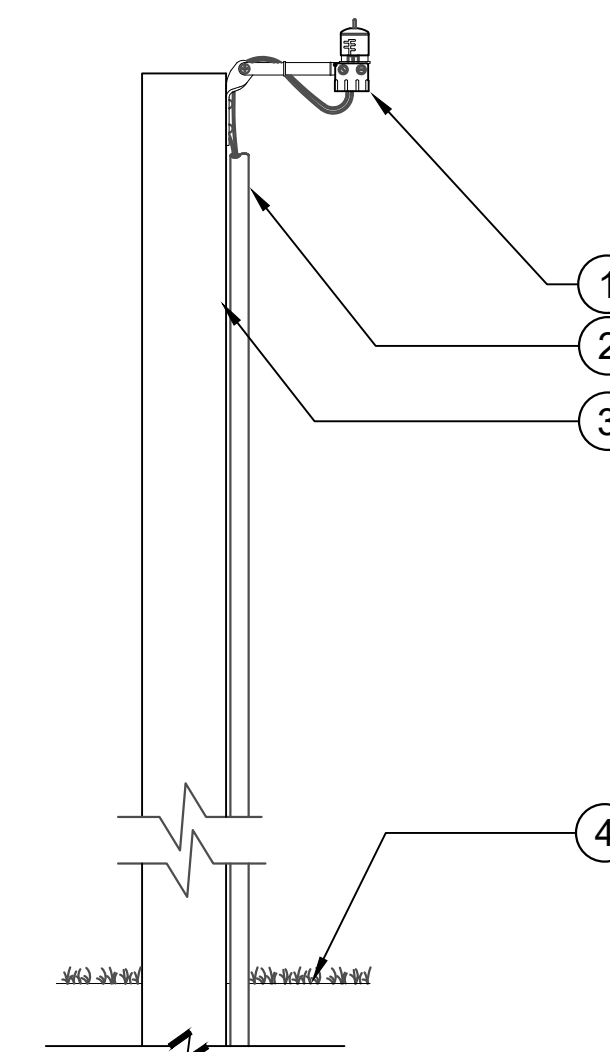
1 BUBBLER AT TREE PLANTING
NTS



- ① FINISH GRADE
- ② DRIP OPERATION INDICATOR: RAIN BIRD OPERIND OR EQUAL
- ③ SUB-SURFACE DRIP: SUCH AS OR EQUAL PER PLAN: RAIN BIRD XF SERIES SUB-SURFACE DRIP LINE- POTABLE: XFS DRIP LINE, OR NON-POTABLE: XFSP DRIP LINE

- NOTE:**
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
 2. RAIN BIRD MODLE: OPERIND FOR XFS SUB-SURFACE DRIP LINE OR EQUAL
 3. INSERT BARB TRANSFER FITTING DIRECTLY INTO DRIP LINE TUBING
 4. RAIN BIRD VAN NOZZLE MAY BE SET TO 'CLOSE'. OR (IF IT IS DESIRED TO SEE SPRAY FROM NOZZLE) SET THE ARC TO QUARTER PATTERN. THE FLOW FROM THE NOZZLE, 0.3 GPM, SHOULD BE ACCOUNTED FOR IN THE SYSTEM DESIGN.
 5. VISIBILITY: STEM EXTENDS WHEN DRIP SYSTEM IS CHARGED WITH 20 PSI MINIMUM

2 RAIN BIRD SUB-SURFACE DRIP INDICATOR
NO SCALE



- LEGEND:**
- ① HUNTER MINI-CLIK SENSOR
 - ② CONDUIT TO CONTROLLER
 - ③ POST OR SUITABLE MOUNTING SURFACE
 - ④ FINISHED GRADE

NOTES:
RAIN SENSOR TO BE INSTALLED PER MANUFACTURER RECOMMENDATIONS

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

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

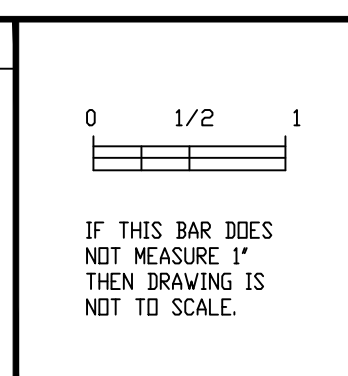


SECTION 4216/4217 OF THE STATE OF CA GOV CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. CALL AT LEAST TWO DAYS BEFORE YOU DIG.

CONNECT MAIN STREET PHASE 1+2			
LANDSCAPE IRRIGATION DETAILS			
CITY OF LEMON GROVE, CALIFORNIA		DEVELOPMENT SERVICES DEPARTMENT	
SHEET 39 OF 44 SHEETS		DATE: 7/20/23	
DESCRIPTION	BY	APPROVED	DATE FILMED
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		1848-6321 NAD83 COORDINATES	
		206-1755 & 210-1755 LAMBERT COORDINATES	
		LI-2.2	

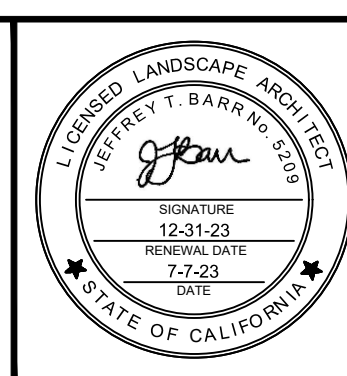
CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK



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STREET DATA TABLE				
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PLANTING NOTES

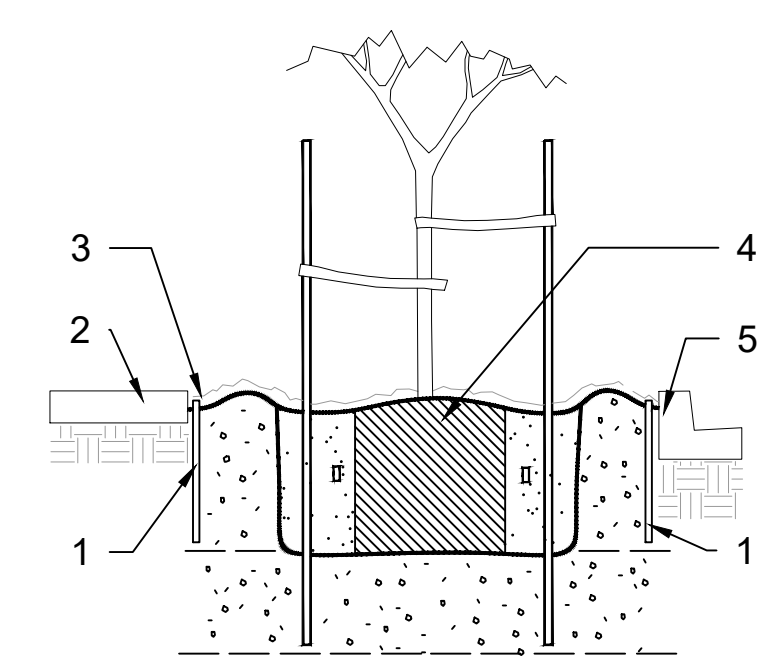
- CONTRACTOR SHALL REVIEW PLANTING SPECIFICATIONS BEFORE BEGINNING WORK.
- CONTRACTOR SHALL REVIEW PLANTING INSTALLATION DETAILS PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL VISIT SITE AND BECOME FAMILIAR WITH CONDITIONS UNDER WHICH WORK SHALL BE DONE PRIOR TO BIDDING.
- ALL WORK WILL BE IN ACCORDANCE 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):
 - 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
 - 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.
- SHRUB AND GROUND COVER MASS QUANTITIES ARE SHOWN ON PLANS. 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 MASSES, 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 10' 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.
 - NONVEGETATED NATURAL GROUND COVER SHALL BE A MINIMUM OF 3" (THREE INCHES) DEEP AND SHALL BE 1" (ONE INCH) BELOW SURROUNDING PAVED SURFACES AS REQUIRED BY LEMON GROVE MUNICIPAL CODE SECTION 18.44.070 (B) (7).
 - 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:
 - 5 GAL SHRUBS
 - 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.
 - PRIOR TO PLANTING, IRRIGATION SYSTEM SHALL BE FULLY OPERATIONAL AND ALL PLANTING AREAS SHALL BE THOROUGHLY WATERED.
 - 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 10 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. 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.
 - MINIMUM TREE SEPARATION DISTANCE:
 - 20 FEET- TRAFFIC SIGNALS
 - 12 FEET- STREET LIGHTS
 - 10 FEET -FIRE HYDRANTS, SEWER LINE AND SDG&E FOR PAD MOUNTED EQUIPMENT
 - 5 FEET - UNDERGROUND SDG&E ELECTRIC AND GAS LINES
 - 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.
 - LEMON GROVE MUNICIPAL CODE SECTION 18.44.100 LANDSCAPING AND IRRIGATION INSTALLATION AND SOIL PREPARATION.

A PERSON ISSUED A LANDSCAPE APPROVAL FOR A PROJECT SHALL INSTALL THE APPROVED IRRIGATION SYSTEM AND LANDSCAPING BEFORE FINAL INSPECTION OF THE PROJECT. A PRE-INSPECTION PRIOR TO INSTALLATION IS REQUIRED TO INSPECT: (1) THE IRRIGATION, ROOT BARRIER, GROUND COVER, AND PLANTING EXCAVATIONS; (2) THE COMPOST AND SOIL MATERIALS PRIOR TO BLENDING; AND (3) THE IRRIGATION, ROOT BARRIER, GROUND COVER, AND PLANTING MATERIALS. A FINAL INSPECTION IS REQUIRED AFTER INSTALLATION TO INSPECT: (1) IRRIGATION LOCATIONS, TYPES AND FLOWS; (2) PLANTING LOCATIONS, TYPES AND SIZES; (3) GROUND COVER DEPTH; AND (4) ROOT BARRIER AND TREE STAKING INSTALLATIONS. INSTALLATIONS SHALL BE PER SAN DIEGO REGIONAL STANDARD DRAWINGS AND THE FOLLOWING:
 - HOLES FOR PLANTINGS SHALL BE EXCAVATED SLIGHTLY SHALLOWER AND A MINIMUM OF TWO TIMES THE WIDTH OF THE ROOT BALL OR CONTAINER. SET THE ROOT BALL SO

- THAT THE TOP OF THE ROOT BALL WILL SIT SLIGHTLY HIGHER THAN THE FINAL GRADE.
- UNIFORMLY BLEND COMPOST AND EXCAVATED SOIL AT A RATIO OF ONE PART COMPOST (ONE-THIRD) PER TWO PARTS SOIL (TWO-THIRDS).
 - BACKFILL AND FIRM THE COMPOST-SOIL BLEND AROUND THE ROOT BALL WITHIN THE PLANTING HOLE.
 - TURF AND SHALLOW PLANTING AREAS SHALL INCLUDE COMPOST AT A MINIMUM DEPTH OF ONE INCH AND THE AREA SHALL BE TILLED TO A MINIMUM FIVE INCHES IN DEPTH.
 - WATER THOROUGHLY DURING AND AFTER PLANTING.
 - BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AT ALL TIMES. (ORD. 436 § 1, 2016; ORD. 387 § 3, 2010)



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

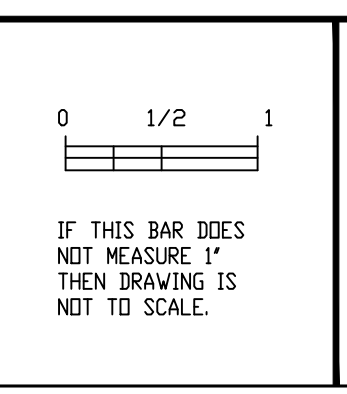
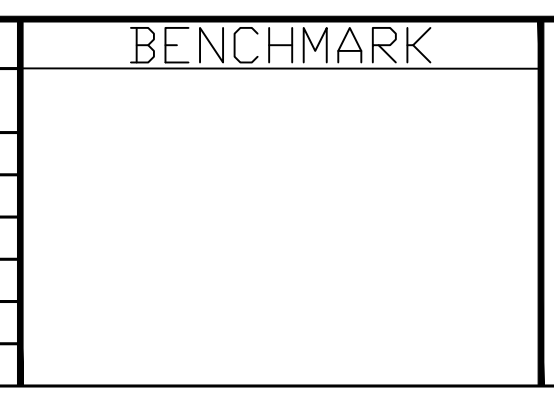
SEE SHEET LP-1.0-LP-1.01 FOR PLANTING LEGEND & NOTES
SEE SHEET LP-1.1 & LP-1.3 FOR PLANTING PLANS

SCHMIDT DESIGN GROUP
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SCHMIDTDESIGN.COM
SDG PROJECT #: 20-108
PLT DATE: 6/20/2023
DRAWN BY: TS, CH, BP
CHECKED BY: JJ

811 Know what's below. Call before you dig.
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CONNECT MAIN STREET PHASE 1+2			
LANDSCAPE PLANTING NOTES			
CITY OF LEMON GROVE, CALIFORNIA		DEVELOPMENT SERVICES DEPARTMENT	
SHEET 40 OF 44 SHEETS			
FOR CITY ENGINEER*		DATE 7/20/23	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	SDG		
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CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS



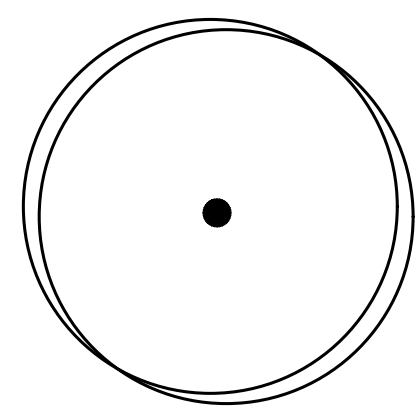
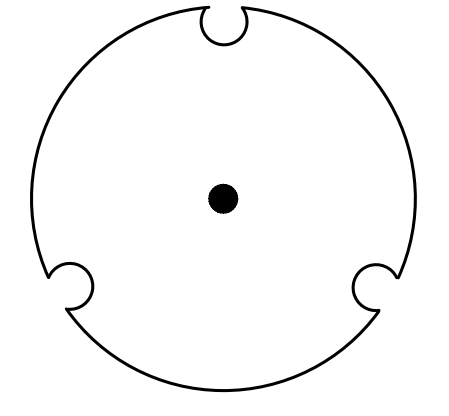
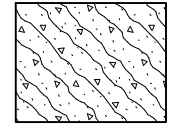
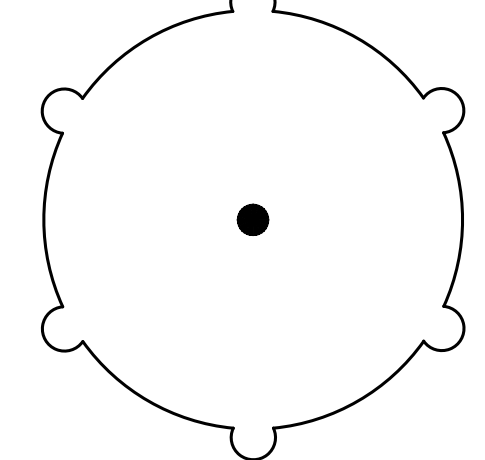
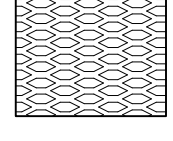
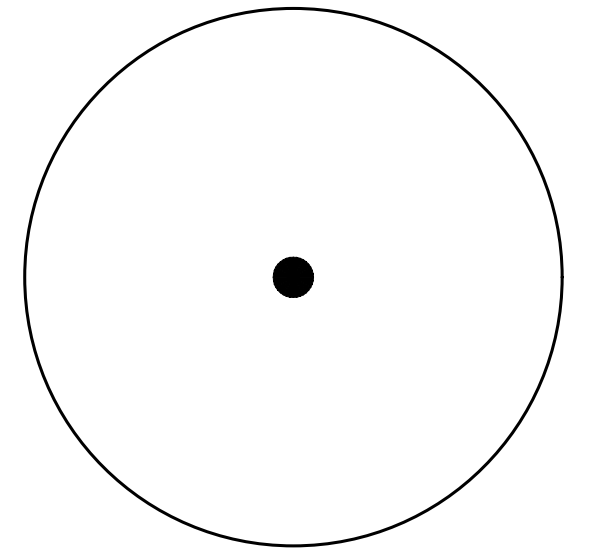
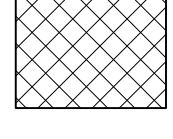
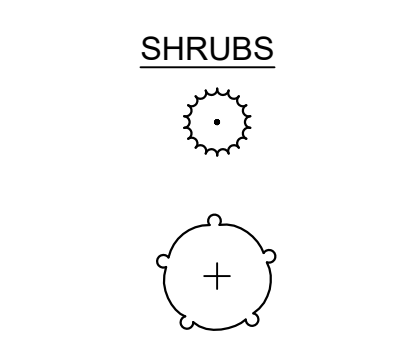
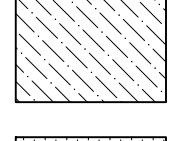
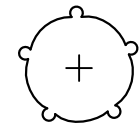
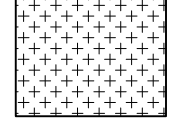
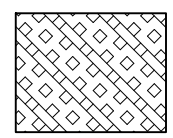
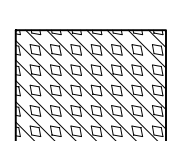
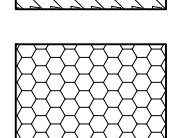
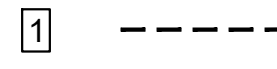
CHEN RYAN ASSOCIATES
3900 Fifth Avenue, Ste 310 • San Diego, CA 92103 | 619.795.6086
CAUTION!
LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

LANDSCAPE ARCHITECT
STATE OF CALIFORNIA
12-31-23
RENEWAL DATE 1-7-23
DATE

LEMON GROVE
BEST CULINARY TREATS
CITY OF LEMON GROVE

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	QTY	DETAIL	WATER USE	GROUND COVERS	BOTANICAL NAME	COMMON NAME	CONT	SPACING	DETAIL	WATER USE
	CERCIS CANADENSIS 'FOREST PANSY' 30'-0" H X 25'-0" W	FOREST PANSY EASTERN REDBUD	24" BOX	4	RSD L-1	LOW		ALOE X 'BLUE ELF' 1'-6" H X 2'-0" W	BLUE ELF ALOE	1 GALLON	24" o.c.	RSD L-2	LOW
	LAGERSTROEMIA X 'NATCHEZ' 25'-0" H X 20'-0" W	WHITE CRAPE MYRTLE	36" BOX	7	RSD L-1	MODERATE		BACCHARIS PILULARIS 'PIGEON POINT' 2'-0" H X 6'-0" W	PIGEON POINT COYOTE BRUSH	5 GALLON	48" o.c.	RSD L-2	LOW
	PLATANUS RACEMOSA 60'-0" H X 40'-0" W	CALIFORNIA SYCAMORE	36" BOX	15	RSD L-1	MODERATE		CARISSA MACROCARPA 'TOMLINSON' 1'-6" H X 3'-0" W	TOMLINSON NATAL PLUM	5 GALLON	36" o.c.	RSD L-2	MODERATE
	QUERCUS AGRIFOLIA 50'-0" H X 50'-0" W	COAST LIVE OAK	36" BOX	14	RSD L-1	VERY LOW		MUHLENBERGIA DUBIA 2'-0" H X 5'-0" W	PINE MUHLY	5 GALLON	48" o.c.	RSD L-2	LOW
	AGAVE ATTENUATA 4'-0" H X 6'-0" W	FOXTAIL AGAVE	5 GALLON		RSD L-2	LOW		SALVIA X 'BEE'S BLISS' 3'-0" H X 5'-0" W	BEE'S BLISS SAGE	5 GALLON	42" o.c.	RSD L-2	LOW
	RHAMNUS CALIFORNICA 2'-0" H X 3'-0" W	CALIFORNIA COFFEEBERRY	5 GALLON		RSD L-2	VERY LOW		SENECIO MANDRALISCAE 2'-0" H X 3'-0" W	BLUE FINGERS	5 GALLON	18" o.c.	RSD L-2	LOW
								SESLERIA AUTUMNALIS 2'-0" H X 1'-6" W	AUTUMN MOOR GRASS	1 GALLON	18" o.c.	RSD L-2	MODERATE
								VERBENA LILACINA 'DE LA MINA' 6'-0" H X 8'-0" W	LILAC VERBENA	5 GALLON	36" o.c.	RSD L-2	LOW
								VIGUIERA LACINIATA 3'-0" H X 3'-0" W	SAN DIEGO COUNTY VIGUIERA	5 GALLON	36" o.c.	RSD L-2	LOW
								39" DEEP BIO BARRIER, AVAILABLE AT TYPAR GEOSYNTHETICS. PHONE: (612) 704-1222				1 / LP-1.0	

SEE SHEET LP-1.0-LP-1.01 FOR PLANTING LEGEND & NOTES
SEE SHEET LP-1.1 & LP-1.3 FOR PLANTING PLANS

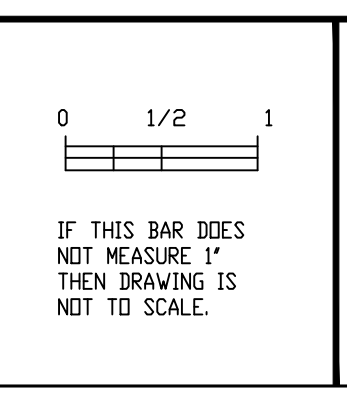


CONNECT MAIN STREET PHASE 1+2
LANDSCAPE PLANTING LEGEND

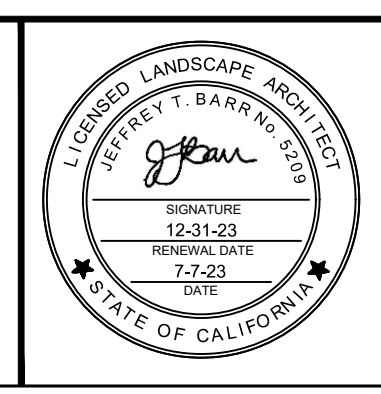
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 41 OF 44 SHEETS		DATE: 7/20/23	TM/TPM
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	SDG		
AS-BUILTS			
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
			LP-1.01

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

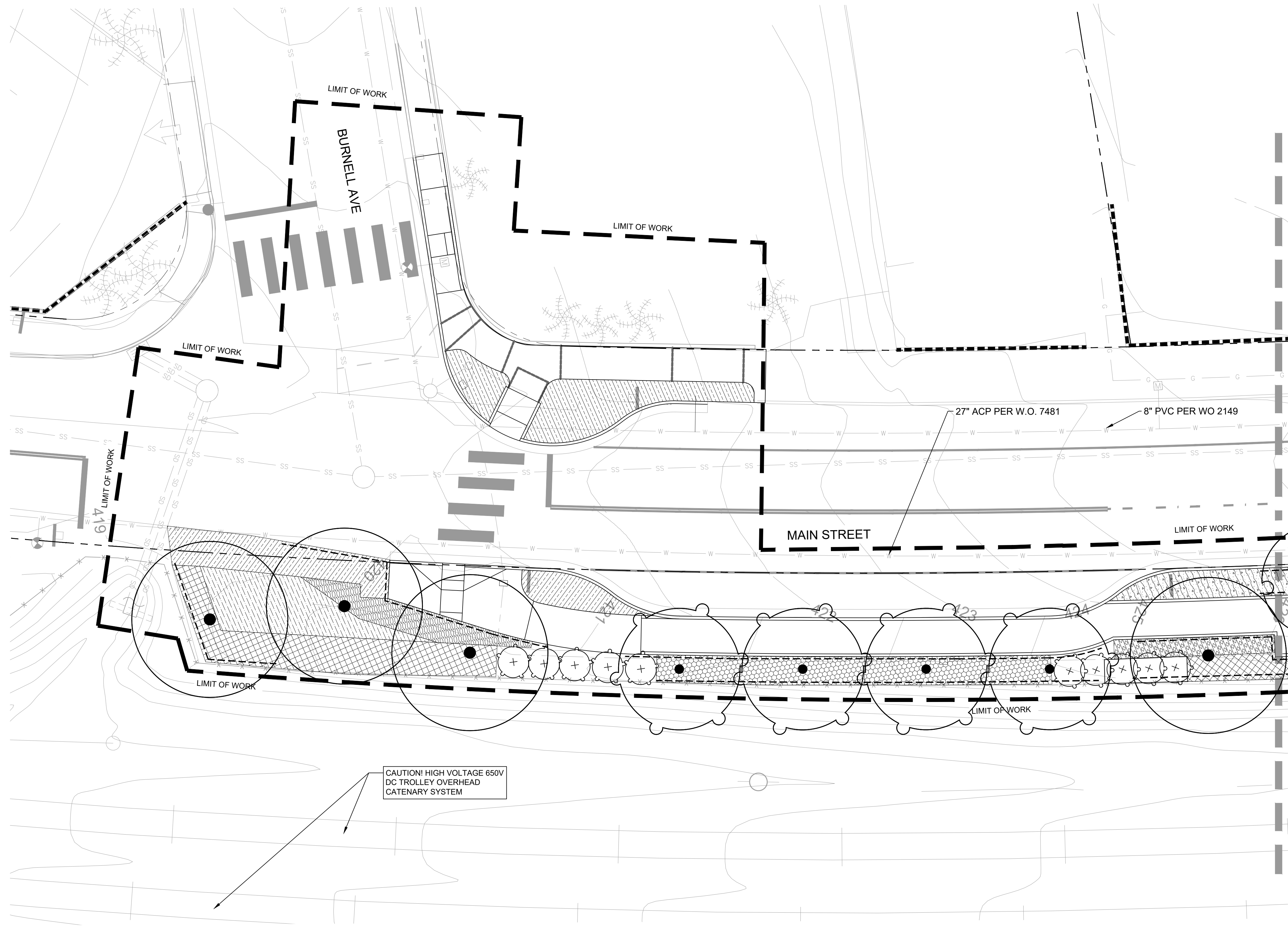
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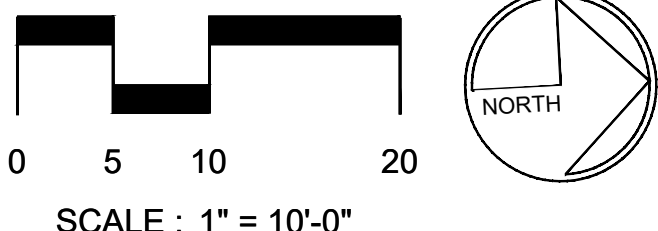
CHEN RYAN ASSOCIATES
3900 Fifth Avenue, Ste 310 • San Diego, CA 92103 | 619.795.6086
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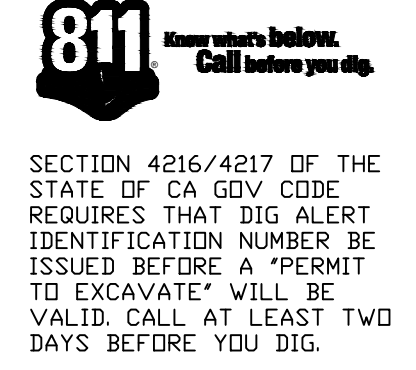
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40



MATCH LINE SEE SHEET LP-1.2



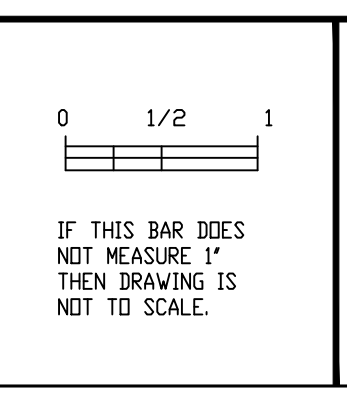
SEE SHEET LP-1.0-LP-1.01 FOR PLANTING LEGEND & NOTES
 SEE SHEET LP-1.1 & LP-1.3 FOR PLANTING PLANS



CONNECT MAIN STREET PHASE 1+2			
LANDSCAPE PLANTING PLAN			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 42 OF 44 SHEETS		7/20/23	
FOR CITY ENGINEER*	DATE	TM/TPM	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	SDG		
AS-BUILTS		1848-6321 NAD83 COORDINATES	
CONTRACTOR		206-1755 & 210-1755 LAMBERT COORDINATES	
INSPECTOR	DATE STARTED	LP-1.1	
	DATE COMPLETED		

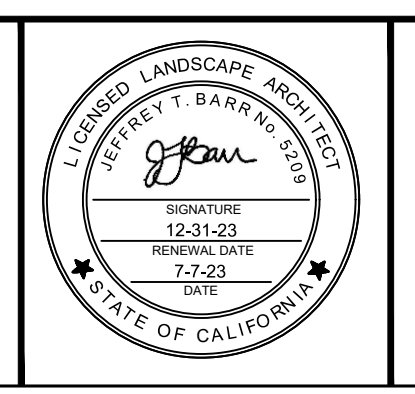
CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

BENCHMARK

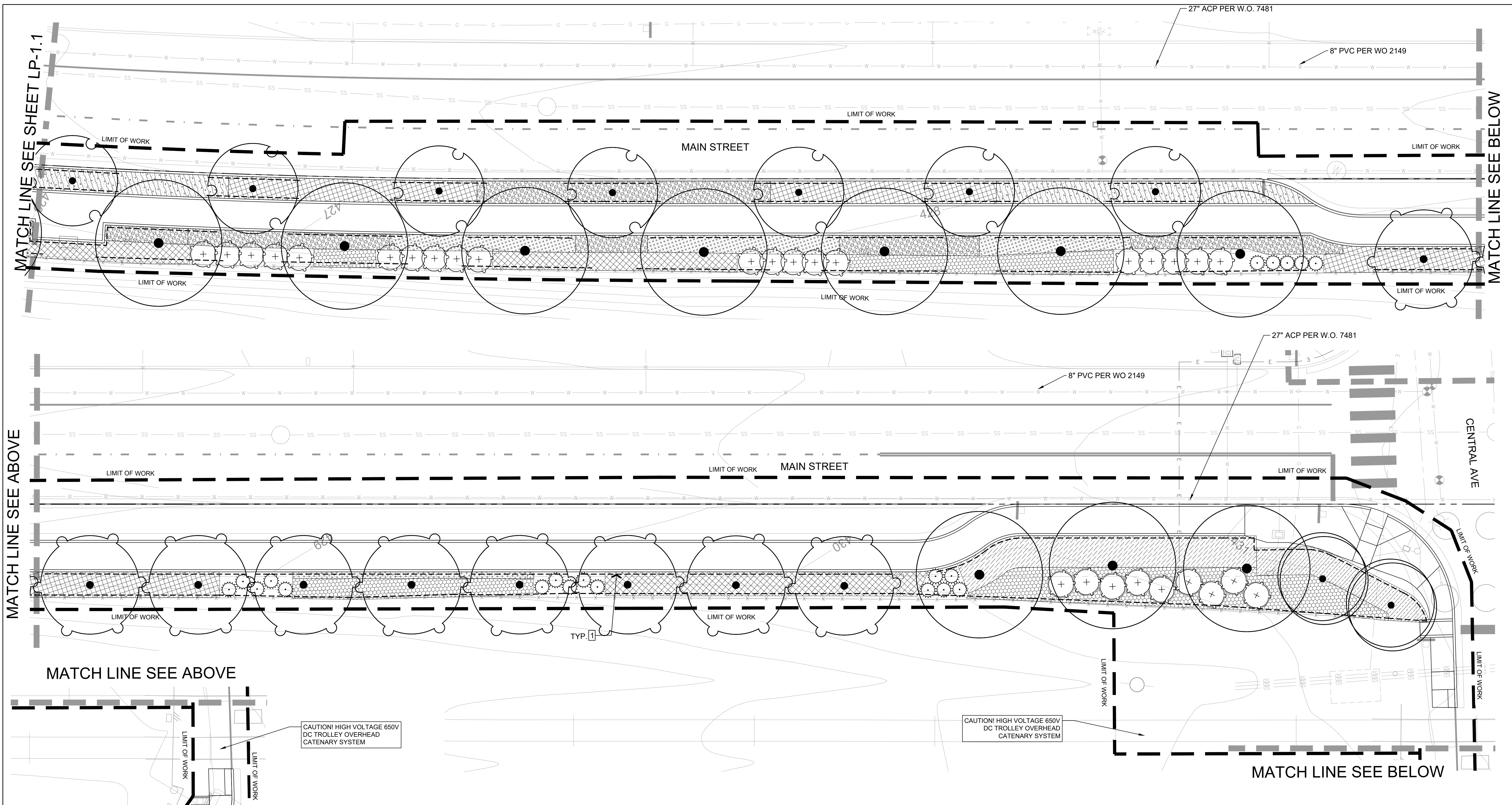


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 3900 Fifth Avenue, Ste 310 • San Diego, CA 92103 | 619.795.6086

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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



MATCH LINE SEE ABOVE

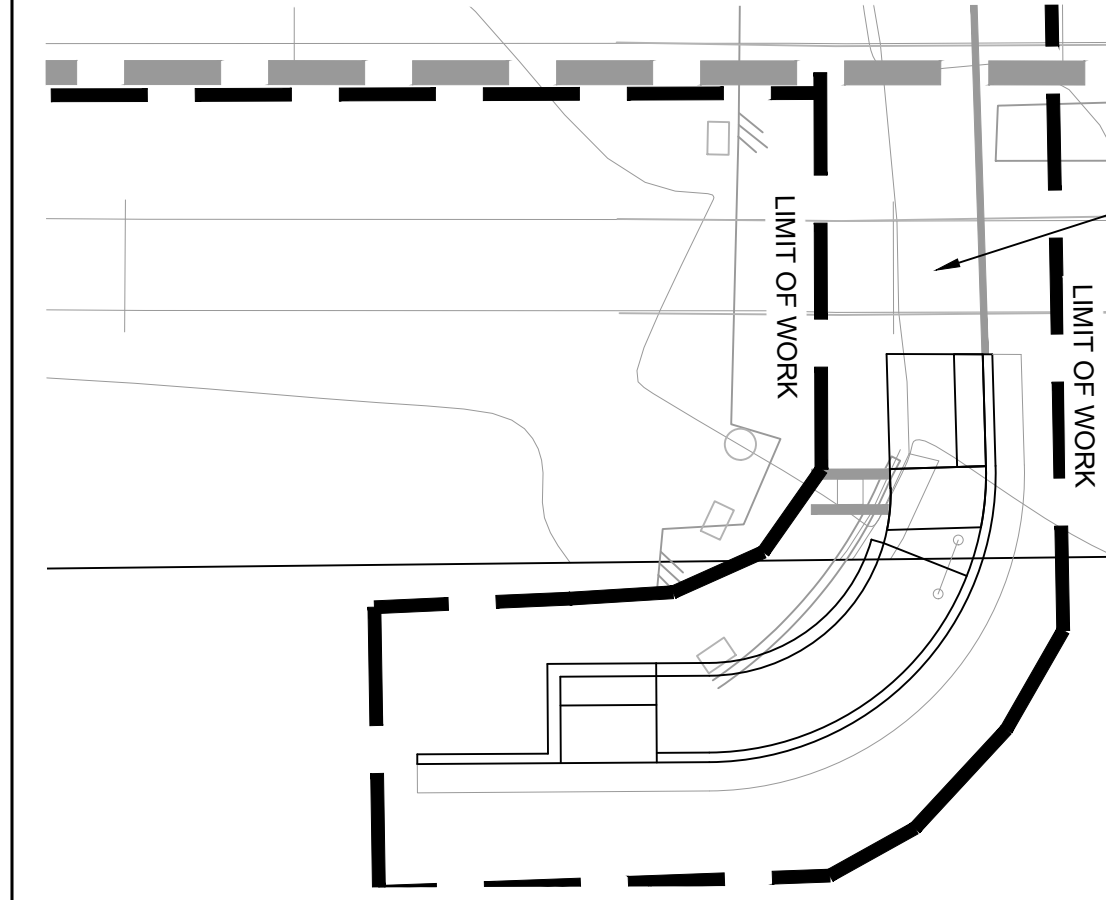
MATCH LINE SEE SHEET LP-1.1

MATCH LINE SEE BELOW

CENTRAL AVE

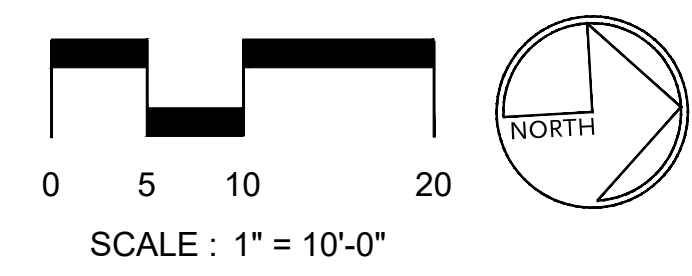
MATCH LINE SEE BELOW

MATCH LINE SEE ABOVE



CAUTION! HIGH VOLTAGE 650V DC TROLLEY OVERHEAD CATENARY SYSTEM

CAUTION! HIGH VOLTAGE 650V DC TROLLEY OVERHEAD CATENARY SYSTEM



SEE SHEET LP-1.0-LP-1.01 FOR PLANTING LEGEND & NOTES
SEE SHEET LP-1.1 & LP-1.3 FOR PLANTING PLANS

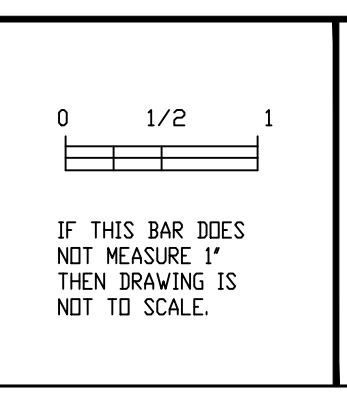


SECTION 4216/4217 OF THE STATE OF CA GOV CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. CALL AT LEAST TWO DAYS BEFORE YOU DIG.

CONNECT MAIN STREET PHASE 1+2			
LANDSCAPE PLANTING PLAN			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 43 OF 44 SHEETS			
FOR CITY ENGINEER*		DATE 7/20/23	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	SDG		
AS-BUILTS			1848-6321 NAD83 COORDINATES
CONTRACTOR			206-1755 & 210-1755 LAMBERT COORDINATES
INSPECTOR			DATE STARTED
			DATE COMPLETED
			LP-1.2

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

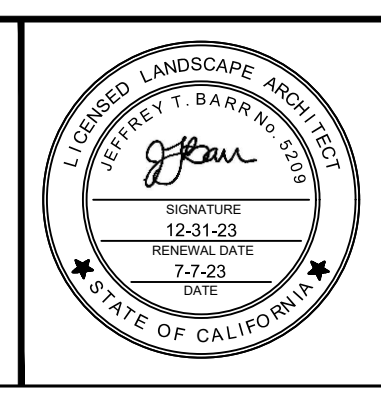
BENCHMARK



CHEN + RYAN
ASSOCIATES

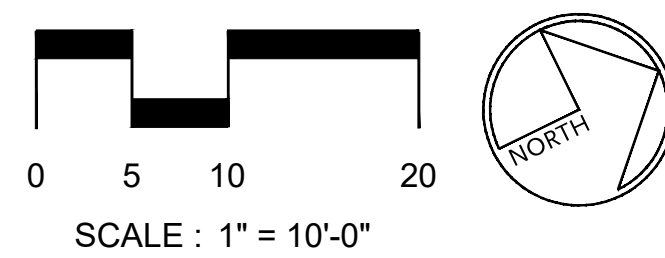
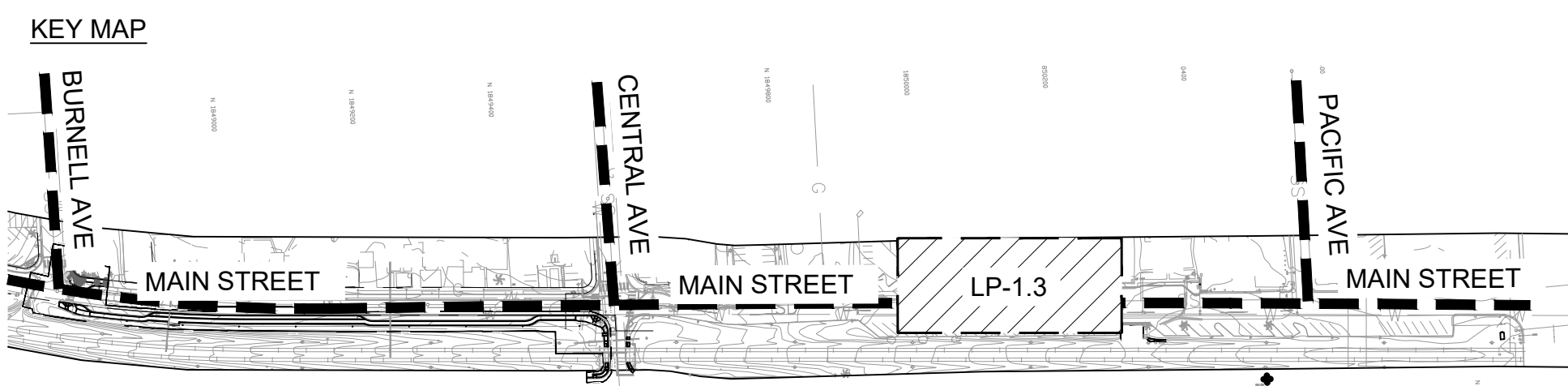
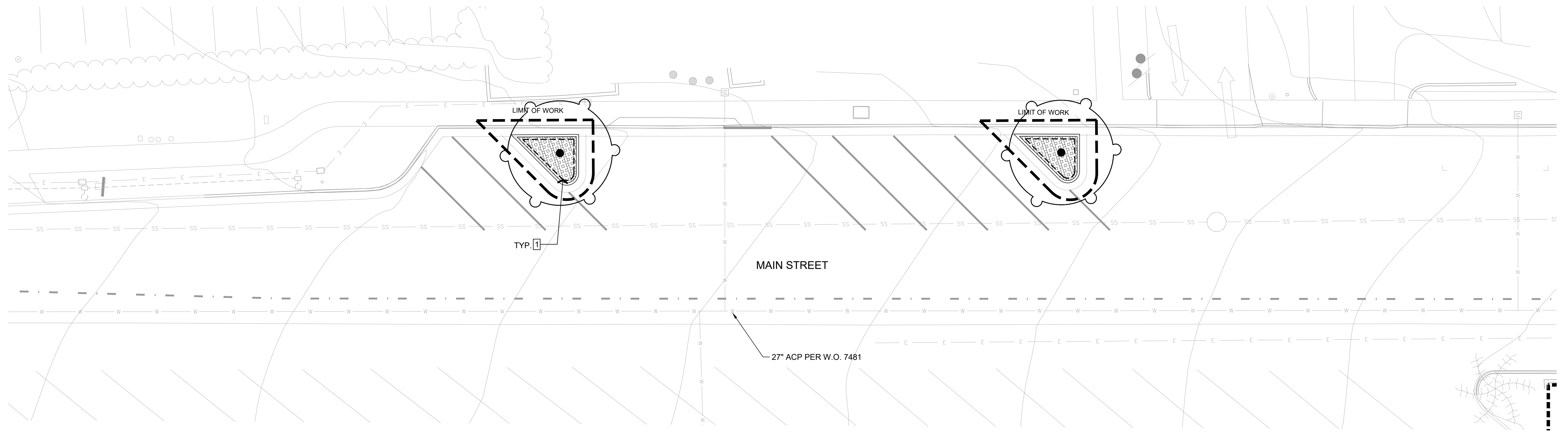
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STREET DATA TABLE				
STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
MAIN STREET, MT VERNON TO SAN MIGUEL	2-LANE COLLECTOR	38	1377	40

FINAL CONSTRUCTION DRAWINGS



SEE SHEET LP-1.0-LP-1.01 FOR PLANTING LEGEND & NOTES
 SEE SHEET LP-1.1 & LP-1.3 FOR PLANTING PLANS

SCHMIDT DESIGN GROUP
 110 Rosemont St., Suite G, San Diego, CA 92106
 619.226.5622
 LIC. CA 7138 (REV. 3/91) AZ 34339
 SCHMIDTDESIGN.COM



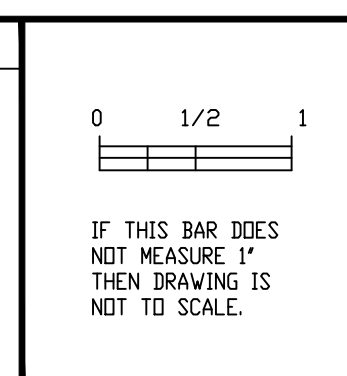
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SDG PROJECT #: 20-108
 PLT DATE: 6/20/2023
 DRAWN BY: TS, CH, BP
 CHECKED BY: JJ

CONNECT MAIN STREET PHASE 1+2			
LANDSCAPE PLANTING PLAN			
CITY OF LEMON GROVE, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 44 OF 44 SHEETS		7/20/23	
FOR CITY ENGINEER*		DATE	
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-1.3	

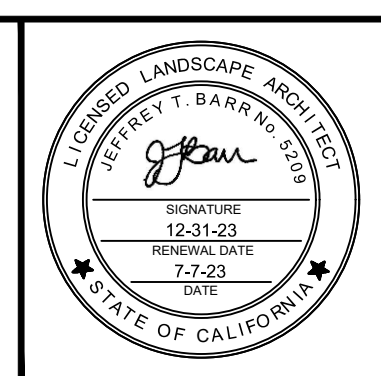
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BENCHMARK



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