LEGEND	EXISTING	PROPOSED
SAWCUT AND CONFORM LINE		
RETAINING WALL		
A.C. PAVEMENT	The second secon	
CONC. VALLEY GUTTER		
CONC. SIDEWALK OR PAD		a · · · · · · · · · · · · · · · · · · ·
6" CURB & GUTTER		
EDGE OF A.C. PAVEMENT	EP-	·
6" VERTICAL CURB		
CENTER LINE		
SANITARY SEWER MAIN	8"ss	
STORM DRAIN MAIN		
PERFORATED PIPE		6 <u>"</u> SD
WATER MAIN	6"W_	6"W
FIRE WATER MAIN	6" FW	
DOMESTIC WATER MAIN	6" DW	4"
CHILLED WATER MAIN	6" CHW	4"CHW
IRRIGATION LINE	IRR	4"IRR
HOT WATER SUPPLY & RETURN	HWS-HWR	
STEAM LINE	ST	
TRENCH DRAIN		
CONDENSATE RETURN	CR	
FLOW LINE	Cit	C/I
CHAIN LINK FENCE	x	
GAS MAIN		
ELECTRIC AND SIGNAL DUCT BANK		
OVERHEAD ELECTRIC LINE	OHE	OHE
UNDERGROUND ELECTRIC LINE	UGE	
STREET LIGHT CONDUIT	SI	SL
CONTOUR ELEVATION LINE	85	90
SPOT ELEVATION	- No.	FG 95.94
DIRECTION OF SLOPE	× 95.94	2:1 1%
GAS METER		■ GM
GAS VALVE	BV D⊠	GV
WATER METER		■ WM
WATER VALVE	i, y	wv
FIRE HYDRANT	II HON	*
BACK FLOW PREVENTOR		m
POST INDICATOR VALVE	PIV	PIV
FIRE DEPARTMENT CONNECTION	775	*
WATER LINE TEE	420	. 1 .
CAP AND PLUG END		
AIR RELEASE VALVE		■ ARV
SIGN		4
ACCESSIBLE RAMP		
CONCRETE THRUST BLOCK	71 1	<u></u>
REDUCER		
SANITARY SEWER MANHOLE		
SANITARY SEWER CLEANOUT	0	5500
STORM DRAIN MANHOLE	SSÇO	ssco
	© ©	
STORM DRAIN CATCH BASIN		
STORM DRAIN CATCH BASIN	ET CB	
STORM DRAIN CLEANOUT	SDCG	SDCO
STORM DRAIN CLEANOUT	s.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	* * *
ELECTROLIER	JP -0-	JP
JOINT POLE		
OVERLAND RELEASE		
CONSTRUCTION DETAIL REFERENCE		DETAIL REFERENCE SHEET REFERENCE

ABBREVIATIONS

ABB	KI	EVIATIONS
AB	_	AGGREGATE BASE
AC AD		ASPHALT CONCRETE AREA DRAIN
ADA	-	AMERICANS WITH DISABILITIES ACT
ASB BC		AGGREGATE SUBBASE BEGINNING OF CURVE
BFP	-	BACK FLOW PREVENTOR
BLDC BLDG		BUILDING CORNER BUILDING
BOD	-	BOTTOM OF DOCK
BOL BOS		BOLLARD BOTTOM OF STEP
BOW		FG @ BOTTOM OF WALL
BVC BW		BEGIN VERTICAL CURVE BACK OF WALK
C C&G		CONCRETE OR CIVIL CURB AND GUTTER
CB		CATCH BASIN
CI CIP		COMBINATION INLET CAST IRON PIPE
CL	_	CENTER LINE OR CLASS
CMP CO		CORRUGATED METAL PIPE CLEANOUT
COI	_	CURB OPENING INLET
CONC CONST		CONCRETE CONSTRUCTION OR CONSTRUCT
CY	(x_1, \dots, x_n)	CUBIC YARD
DCDA DI		DOUBLE CHECK DETECTOR ASSEMBLY DROP INLET
DIP	-	DUCTILE IRON PIPE
DOM DW		DOMESTIC S DOMESTIC WATER
DWG	-	DIAMINO
E EC	_	EAST END OF CURVE
EP	-	
ER EVC		END OF RETURN END VERTICAL CURVE
ELEV		ELEVATION EXISTING
EX., EXIST. FC		FACE OF CURB
FDC FF		FIRE DEPARTMENT CONNECTION FINISHED FLOOR
FG	_	
FH FL	_	
FOUND	_	FOUNDATION
FS FT	-	FINISHED SURFACE FOOT
FW	-	FIRE WATER
G GB	_	GROUND ELEVATION GRADE BREAK
GV	-	GATE VALVE
HCR HP	_	ACCESSIBLE RAMP HIGH POINT
INV	-	INVERT ELEVATION
JP JT		JOINT POLE JOINT TRENCH
LIP	-	LIP OF GUTTER
LP LSA	_	LOW POINT LANDSCAPE ARCHITECT
MAX	-	MAXIMUM
MEP MH		MECHANICAL/ELECTRICAL/PLUMBING MANHOLE
MIN		MINIMUM
MPVC MON	_	MIDPOINT OF VERTICAL CURVE MONUMENT
N N.I.C.	-	NORTH NOT IN CONTRACT
NO	-	NUMBER
NTS P		NOT TO SCALE PAVEMENT ELEVATION
PCC		PORTLAND CEMENT CONCRETE /
PIV	_	POINT OF CONTINUOUS CURVATURE POST INDICATOR VALVE
PL	-	PROPERTY LINE
PMH POC		POWER MANHOLE POINT ON CURVE
PP	-	POWER POLE
PRC PVC		POINT OF REVERSE CURVATURE POLYVINYL CHLORIDE PIPE
R	-	RADIUS
RC RCP		RELATIVE COMPACTION REINFORCED CONCRETE PIPE
RPPA		REDUCED PRESSURE PRINCIPLE ASSEMBLY
R/W S		RIGHT OF WAY SLOPE OR SOUTH
S.A.D.	7-	SEE ARCHITECTURAL DRAWINGS
SB SD		SEDIMENT BASIN STORM DRAIN
S.E.D. SF		SEE ELECTRICAL DRAWINGS SILT FENCE
SG	-	SUBGRADE
S.L.D. S.M.D.		SEE LANDSCAPE DRAWINGS SEE MECHANICAL DRAWINGS
SMH	-	SIGNAL MANHOLE
S.P.D. SS		SEE PLUMBING DRAWINGS SANITARY SEWER
STA		STATION
STD S/W		STANDARD SIDEWALK
TC	-	TOP OF CURB
TD TOD	_	TRENCH DRAIN TOP OF DOCK
TOE	-	TOE OF SLOPE
TOS TOW	-	TOP OF STAIR FG @ TOP OF WALL
TS	-	TOP OF SLAB
TYP UON	_	TYPICAL UNLESS OTHERWISE NOTED
U/G		UNDERGROUND VERTICAL CURVE
VC WM	=	WATER METER

- WATER VALVE

WELDED WIRE FABRIC

- WEST

- WITH

FRONTAGE ROAD LIVING GREEN TRAIL DESIGN

100% DESIGN PITTSBURG, CA



PROJECT DESCRIPTION

THIS PROJECT PROPOSES TO CONSTRUCT A MULTI-USE PATH AND STORMWATER TREATMENT.

CITY OF PITTSBURG CONTACT PERSON: JOLAN LONGWAY 65 CIVIC AVENUE PITTSBURG, CA 94565 PH: (925) 252-4803 EMAIL: JLONGWAY@PITTSBURGCA.GOV

SHEET INDEX

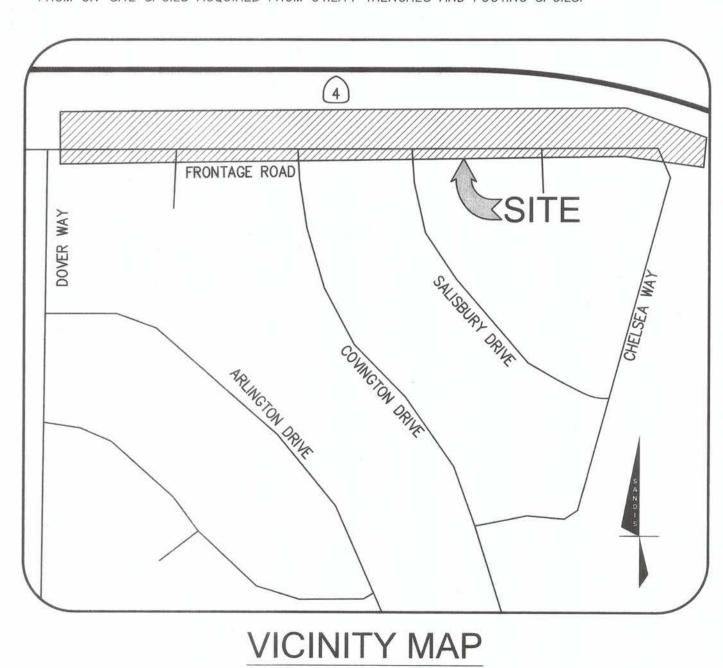
OLIL	LIMDLA		
C-1.0	COVER SHEET	L1.01	NOTES AND LEGEND
C-1.1	CONSTRUCTION NOTES	L1.02	PLANTING NOTES AND LEGEND
C-2.0	TOPOGRAPHIC SURVEY	L2.01	LAYOUT PLAN
C-2.1	TOPOGRAPHIC SURVEY	L2.01A	LAYOUT PLAN - ADD ALT
C - 3.0	OVERALL SITE PLAN	L2.02	LAYOUT PLAN
C-4.0	DEMOLITION PLAN	L2,03	LAYOUT PLAN
C-4.1	DEMOLITION PLAN	L2.04	LAYOUT PLAN
C-4.2	DEMOLITION PLAN	L2.05	LAYOUT PLAN
C-4.3	DEMOLITION PLAN	L2.06	LAYOUT PLAN
C-5.0	GRADING AND DRAINAGE PLAN	L3.01	IRRIGATION PLAN
C-5.1	GRADING AND DRAINAGE PLAN	L3.02	IRRIGATION PLAN
C-5.2	GRADING AND DRAINAGE PLAN	L3.03	IRRIGATION PLAN
C-5.3	GRADING AND DRAINAGE PLAN	L3.04	IRRIGATION PLAN
C-6.0	UTILITY PLAN	L3.05	IRRIGATION PLAN
C-6.1	UTILITY PLAN	L3.06	IRRIGATION PLAN
C-6.2	UTILITY PLAN	L3.07	IRRIGATION NOTES AND LEGEND
C-6.3	UTILITY PLAN	L3.08	IRRIGATION DETAILS
C - 7.0	STORMWATER MANAGEMENT PLAN	L3.09	IRRIGATION DETAILS
C-8.0	CONSTRUCTION DETAILS	L3.10	IRRIGATION WATER CALCULATIONS
C-8.1	CONSTRUCTION DETAILS	L4.01	PLANTING PLAN
C-8.2	CONSTRUCTION DETAILS	L4.02	PLANTING PLAN
C-8.3	CONSTRUCTION DETAILS	L4.03	PLANTING PLAN
C-9.0	SIGNAGE AND STRIPING PLAN	L4.04	PLANTING PLAN
C-10.0	EROSION CONTROL PLAN	L4.05	PLANTING PLAN
C-10.1	EROSION CONTROL DETAILS	L4.06	PLANTING PLAN
C-11.0	LIGHTING PLAN	L5.01	PLANTING DETAILS
C-11.1	LIGHTING PLAN	L5.02	CONSTRUCTION DETAILS
C-11.2	LIGHTING PLAN	L5.03	CONSTRUCTION DETAILS
C-11.3	LIGHTING PLAN	L5.04	CONSTRUCTION DETAILS
		L5.05	CONSTRUCTION DETAILS

UNAUTHORIZED CHANGES AND USES CAUTION: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THE PLANS.

EARTHWORK QUANTITIES

CUT 2,400 CY FILL 200 CY BALANCE 2,200 CY EXPORT

THE EARTHWORK QUANTITIES SHOWN ARE PROVIDED FOR THE PURPOSE OF GRADING PERMIT APPROVAL ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CARRY OUT THE CUT/FILL, IMPORT/EXPORT AS NECESSARY TO MEET THE DESIGN GRADES AS SHOWN ON THE PLANS REGARDLESS OF THE ESTIMATED EARTHWORK QUANTITIES AS INDICATED. SIGNIFICANT REVISIONS TO THE QUANTITIES NEED REVIEW BY THE CITY OF PITTSBURG. FILL SHORTAGE IS ANTICIPATED TO COME FROM ON-SITE SPOILS ACQUIRED FROM UTILITY TRENCHES AND FOOTING SPOILS.









SHEET NO. 1 OF 59

DWG. NO.

C-1.0

CONSTRUCTION NOTES

- 1. ALL OFF-SITE CONSTRUCTION MATERIAL AND METHODS SHALL COMPLY WITH THE LATEST EDITION OF THE CITY OF PITTSBURG, COUNTY OF CONTRA COSTA AND THE LATEST CALTRANS STANDARD PLANS & SPECIFICATIONS.
- 2. CONTRACTOR SHALL LEAVE AN EMERGENCY PHONE NUMBER WITH THE CITY OF PITTSBURG POLICE AND FIRE DEPARTMENTS.
- 3. CONTRACTOR SHALL POST ON THE SITE. EMERGENCY TELEPHONE NUMBERS FOR PUBLIC WORKS, AMBULANCE, POLICE, AND FIRE DEPARTMENTS.
- 4. CONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO THE UTILITY UNLESS AN EXCAVATION PERMIT SPECIFIES OTHERWISE.
- 5. THE CONTRACTOR SHALL HIRE A STREET CLEANING CONTRACTOR TO CLEAN UP DIRT AND DEBRIS FROM CITY STREETS THAT ARE ATTRIBUTABLE TO THE DEVELOPMENT'S CONSTRUCTION ACTIVITIES.
- 6. ALL GRADING SHALL BE PERFORMED IN SUCH A MANNER AS TO COMPLY WITH THE STANDARDS ESTABLISHED BY THE AIR QUALITY MAINTENANCE DISTRICT FOR AIRBORNE PARTICULATES (DUST).
- 7. ALL GRADING SHALL CONFORM TO APPROVED SPECIFICATIONS PRESENTED HEREON OR ATTACHED HERETO. ALL GRADING WORK SHALL BE OBSERVED AND APPROVED BY THE SOILS ENGINEER. THE GEOTECHNICAL ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS BEFORE BEGINNING ANY GRADING. UNOBSERVED AND UNAPPROVED GRADING WORK SHALL BE REMOVED AND REDONE AT THE CONTRACTORS EXPENSE.
- 8. ALL MATERIALS, REQUIRED FOR THE COMPLETE EXECUTION OF THE PROJECT, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- 9. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY DURING THE CONSTRUCTION PERIOD.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY EXISTING IMPROVEMENTS OF UNDERGROUND FACILITIES DAMAGED DURING THE CONSTRUCTION PERIOD.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL ENCROACHMENT. EXCAVATION, CONCRETE, ELECTRICAL, PLUMBING, ETC. PERMITS NECESSARY PRIOR TO BEGINNING CONSTRUCTION FOR ANY WORK.
- 12. THE CONTRACTOR SHALL HAVE A SUPERINTENDENT OR REPRESENTATIVE ON SITE AT ALL TIMES DURING CONSTRUCTION.
- 13. STORAGE OF CONSTRUCTION MATERIAL AND EQUIPMENT ON CITY STREETS WILL NOT BE PERMITTED.
- 14. CONSTRUCTION EQUIPMENT SHALL BE PROPERLY MUFFLED. UNNECESSARY IDLING OF GRADING CONSTRUCTION EQUIPMENT IS PROHIBITED.
- 15. CONSTRUCTION EQUIPMENT, TOOLS, ETC. SHALL NOT BE CLEANED OR RINSED INTO A STREET, GUTTER OR STORM DRAIN.
- 16. A CONTAINED AND COVERED AREA ON—SITE SHALL BE USED FOR STORAGE OF CEMENT BAGS, PAINTS, FLAMMABLE, OILS, FERTILIZERS, PESTICIDES, OR ANY OTHER MATERIALS THAT HAVE POTENTIAL FOR BEING DISCHARGED TO THE STORM DRAIN SYSTEM BY WIND OR IN THE EVENT OF A MATERIAL SPILL.
- ALL CONSTRUCTION DEBRIS SHALL BE GATHERED ON A REGULAR BASIS AND PLACED IN A DUMPSTER WHICH IS EMPTIED OR REMOVED WEEKLY. WHEN FEASIBLE, TARPS SHALL BE USED ON THE GROUND TO COLLECT FALLEN DEBRIS OR SPLATTERS THAT COULD CONTRIBUTE TO STORMWATER POLLUTION.

18. ANY TEMPORARY ON-SITE CONSTRUCTION PILES SHALL BE SECURELY COVERED

- WITH A TARP OR OTHER DEVICE TO CONTAIN DEBRIS.
- 19. CONCRETE TRUCKS AND CONCRETE FINISHING OPERATIONS SHALL NOT DISCHARGE WASH WATER INTO THE STREET GUTTERS OR DRAINS.

DISCREPANCIES

IF THERE ARE ANY DISCREPANCIES BETWEEN DIMENSIONS IN DRAWINGS AND EXISTING CONDITIONS WHICH WILL AFFECT THE WORK, THE CONTRACTOR SHALL BRING SUCH DISCREPANCIES TO THE ATTENTION OF THE ENGINEER FOR ADJUSTMENT BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF ALL WORK AND FOR THE COORDINATION OF ALL TRADES, SUBCONTRACTORS. AND PERSONS ENGAGED UPON THIS CONTRACT.

UTILITY/POTHOLE NOTE

THE TYPES, LOCATIONS, SIZES AND /OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT. SIZES. LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND FACILITIES AND UTILITIES BY POTHOLING PRIOR TO COMMENCING CONSTRUCTION.

DIMENSIONS

ALL DIMENSIONS ON THE PLANS ARE IN FEET OR DECIMALS THEREOF UNLESS SPECIFICALLY CALLED OUT AS FEET AND INCHES.

ENCROACHMENT NOTE:

A SEPARATE ENCROACHMENT PERMIT IS REQUIRED FOR ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN THIS ENCROACHMENT PERMIT AND FOLLOW ALL CONSTRUCTION RELATED REQUIREMENTS OF SUCH PERMIT.

FLOODZONE

THIS PROJECT IS IN FLOOD ZONE X: AREAS OUTSIDE OF 0.2% ANNUAL CHANCE FLOOD.

INFORMATION OBTAINED FROM THE FLOOD INSURANCE RATE MAP (FIRM) NO. 06013C019G DATED SEPTEMBER 30, 2015 PRODUCED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA).

UNDERGROUND WORK CAUTION

CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT FOR LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. FOR NORTHERN CALIFORNIA DIAL 811 OR (800) 227-2600. FOR OTHER AREAS CALL (800) 642-2444. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY WORK ON THIS SITE.

DEMOLITION NOTES

- 1. CONTRACTOR IS TO COMPLY WITH ALL GENERAL AND STATE REQUIREMENTS INVOLVING THE REMOVAL AND DISPOSAL OF HAZARDOUS MATERIAL(S).
- CONTRACTOR'S BID IS TO INCLUDE ALL VISIBLE SURFACE AND ALL SUBSURFACE FEATURES IDENTIFIED TO BE REMOVED OR ABANDONED IN THESE DOCUMENTS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION, AND DISPOSAL OF SAID MATERIALS AS REQUIRED BY PRIVATE, LOCAL AND STATE JURISDICTIONS. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH THE DEMOLITION WORK.
- BACKFILL ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
- 6. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER
- 7. PRIOR TO BEGINNING DEMOLITION WORK ACTIVITIES, CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES OUTLINED IN THE EROSION CONTROL PLAN & DETAILS AND THE PROJECT SWPPP IF APPLICABLE.
- 8. THE CONTRACTOR SHALL MAINTAIN ALL SAFETY DEVICES, AND SHALL BE RESPONSIBLE FOR CONFORMANCE TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS LAWS AND REGULATIONS.
- 9. THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING IMPROVEMENTS FACILITIES AND STRUCTURES WHICH ARE TO REMAIN. ANY ITEMS DAMAGED BY THE CONTRACTOR OR THEIR AGENTS OR ANY ITEMS REMOVED FOR HIS USE SHALL BE REPLACED IN EQUAL OR BETTER CONDITION AS APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE.
- 10. COORDINATE WITH ELECTRICAL, MECHANICAL, LANDSCAPING AND ARCHITECTURAL DRAWINGS FOR UTILITY SHUT-DOWN/DISCONNECT LOCATIONS. CONTRACTOR IS TO SHUT OFF ALL UTILITIES AS NECESSARY PRIOR TO DEMOLITION. CONTRACTOR IS TO COORDINATE SERVICE INTERRUPTIONS WITH THE UTILITY OWNER AND ANY AFFECTED PROPERTIES OR BUILDINGS. SEE ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION SCOPE OF WORK.
- 11. THIS PLAN IS NOT INTENDED TO BE A COMPLETE CATALOGUE OF ALL EXISTING STRUCTURES AND UTILITIES. THIS PLAN INTENDS TO DISCLOSE GENERAL INFORMATION KNOWN BY THE ENGINEER AND TO SHOW THE LIMITS OF THE AREA WHERE WORK WILL BE PERFORMED. THIS PLAN SHOWS THE EXISTING FEATURES TAKEN FROM A FIELD SURVEY, FIELD INVESTIGATIONS AND AVAILABLE INFORMATION. THIS PLAN MAY OR MAY NOT ACCURATELY REFLECT THE TYPE OR EXTENT OF THE ITEMS TO BE ENCOUNTERED AS THEY ACTUALLY EXIST. WHERE EXISTING FEATURES ARE NOT SHOWN, IT IS NOT IMPLIED THAT THEY ARE NOT TO BE DEMOLISHED OR RELOCATED. THE CONTRACTOR SHALL PERFORM A THOROUGH FIELD INVESTIGATION AND REVIEW OF THE SITE WITHIN THE LIMIT OF WORK SHOWN IN THIS PLAN SET TO DETERMINE THE TYPE, QUANTITY AND EXTENT OF ANY AND ALL ITEMS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE EXTENT OF EXISTING STRUCTURES AND UTILITIES AND QUANTITY OF WORK INVOLVED IN REMOVING THESE ITEMS FROM THE SITE.
- 12. CONTRACTOR TO DEMOLISH AND REMOVE ALL IRRIGATION IN LANDSCAPE AREAS WITHIN THE LIMIT OF WORK. IF ANY IRRIGATION LINES OR MAINS ARE IN THE LIMIT OF WORK OR ARE DAMAGED THAT SERVE LANDSCAPE TO REMAIN, CONTRACTOR TO RECONNECT OR RELOCATE AT NO ADDITIONAL COST TO OWNER.
- 13. PROTECT ALL EXISTING UTILITIES IN PLACE UNLESS OTHERWISE NOTED. REPLACE ANY DAMAGED UTILITY TO REMAIN TO KEEP OPERABLE DURING CONSTRUCTION.
- 14. ALL UTILITY SHUT DOWNS ARE TO BE AVOIDED. IF SHUT DOWNS ARE NECESSARY, CONTRACTOR TO COORDINATE SHUT DOWN WITH UTILITY OWNER WITH 48 HOUR MINIMUM NOTICE.
- 15. ALL EXISTING STORM DRAIN, SANITARY SEWER, AND WATER MAINS THAT SERVE EXISTING BUILDINGS MUST REMAIN OPERABLE DURING CONSTRUCTION. CONTRACTOR TO SET UP TEMPORARY SERVICE OR PUMP AS NECESSARY TO ENSURE UNINTERRUPTED SERVICE.

RECORD DRAWING NOTE

THE CONTRACTOR SHALL KEEP UP-TO-DATE AND ACCURATE A COMPLETE RECORD SET OF PRINTS OF THE CONTRACT DRAWINGS SHOWING EVERY CHANGE FROM THE ORIGINAL DRAWINGS MADE DURING THE COURSE OF CONSTRUCTION INCLUDING EXACT FINAL LOCATION, ELEVATION, SIZES, MATERIALS, AND DESCRIPTION OF ALL WORK. RECORDS SHALL BE "REDLINED" ON A SET OF CONSTRUCTION PLAN DRAWINGS. A COMPLETE SET OF CORRECTED AND COMPLETED RECORD DRAWING PRINTS SHALL BE SUBMITTED TO THE CITY ENGINEER AND DEVELOPER'S CIVIL ENGINEER PRIOR TO FINAL ACCEPTANCE FOR REVIEW AND APPROVAL BY THE CITY ENGINEER.

APPLICABLE FIRE CODE NOTES

APPLICABLE CODES AS OF JANUARY 1, 2023:

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)

2022 CALIFORNIA BUILDING CODE, VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR) (2021 EDITION INTERNATIONAL BUILDING CODE)

2022 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR) (2021 EDITION NATIONAL ELECTRICAL CODE)

2022 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR) (2021 EDITION UNIFORM MECHANICAL CODE)

2022 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR) (2021 EDITION UNIFORM PLUMBING CODE)

2022 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)

2022 CALIFORNIA ELEVATOR SAFETY ORDERS (CHAPTER 4, TITLE 8, CCR)

2022 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)

2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

HAZARDOUS MATERIALS NOTE

THERE MAY BE ASBESTOS CONTAINING PIPE AND PIPE INSTALLATION OR OTHER HAZARDOUS MATERIALS WITHIN THE PROJECT AREA. THE CONTRACTOR WILL PROTECT ALL HAZARDOUS CONTAINING ITEMS DURING THE EXECUTION OF THIS CONTRACT. ADDITIONALLY THE CONTRACTOR WILL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS REGARDING CONSTRUCTION ACTIVITIES NEAR HAZARDOUS MATERIALS.

CONSTRUCTION FENCE

- CONTRACTOR SHALL PROVIDE A CONSTRUCTION FENCE AROUND THE ENTIRE AREA OF DEMOLITION AND CONSTRUCTION, INCLUDING ALL STAGING, STORAGE, CONSTRUCTION OFFICE AND LAYDOWN AREAS.
- 2. CONSTRUCTION FENCE SHALL BE A MINIMUM OF A 6' HIGH GALVANIZED CHAIN LINK WITH GREEN WINDSCREEN FABRIC ON THE OUTSIDE OF THE FENCE.
- 3. CONSTRUCTION FENCE ADDRESSED IN THESE NOTES IS ONLY FOR VISUAL CONFORMANCE OF THIS CONSTRUCTION SITE TO THE CITY OF PITTSBURG STANDARDS. CONTRACTOR MAY BE REQUIRED TO PROVIDE ADDITIONAL FENCING, BARRICADES OR OTHER SAFETY DEVICES TO KEEP THE SITE SECURE AND SAFE.

GENERAL UTILITY NOTES

- 1. ALL TRENCHES SHALL BE BACK FILLED PER THE GEOTECHNICAL REPORT OR UTILITY OWNERS STANDARD DETAILS AND SPECIFICATIONS.
- 2. CONTRACTOR SHALL STAKE LOCATION OF ABOVE GROUND UTILITY EQUIPMENT (TRANSFORMER, GAS METER, ETC.). PLANNING DEPARTMENT MUST SPECIFICALLY AGREE WITH LOCATION PRIOR TO PROCEEDING WITH ANY REVISIONS TO APPROVED
- 3. CATHODIC PROTECTION SHALL BE REQUIRED ON ALL METALLIC FITTINGS AND ASSEMBLIES THAT ARE IN CONTACT WITH THE SOIL, UNLESS SPECIFICALLY DEEMED UNNECESSARY BY THE GEOTECHNICAL REPORT. CONTRACTOR IS RESPONSIBLE TO FULLY ENGINEER AND INSTALL THIS SYSTEM AND COORDINATE ANODE AND TEST STATION LOCATIONS WITH THE UTILITY OWNER.
- 4. COMPLETE SYSTEMS: ALL UTILITY SYSTEMS ARE DELINEATED IN A SCHEMATIC MANNER ON THESE PLANS. CONTRACTOR IS TO PROVIDE ALL FITTINGS, ACCESSORIES 4. WHEEL WASHERS SHALL BE INSTALLED AND USED TO CLEAN ALL TRUCKS AND WORK NECESSARY TO COMPLETE THE UTILITY SYSTEM SO THAT IT IS FULLY FUNCTIONING FOR THE PURPOSE INTENDED
- 5. UNDERGROUND UTILITIES OR STRUCTURES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS AND EXTENT BASED UPON RECORD INFORMATION. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CLIENT, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO, AGREES TO ASSUME LIABILITY AND TO HOLD UNDERSIGNED HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERSIGNED; NOT INDICATED ON THE PUBLIC RECORDS EXAMINED. LOCATED AT VARIANCE WITH THOSE REPORTED OR SHOWN ON RECORDS EXAMINED.
- 6. CONTRACTOR SHALL VERIFY ALL EXISTING INVERT ELEVATIONS FOR STORM DRAIN AND SANITARY SEWER CONSTRUCTION PRIOR TO COMMENCEMENT OF ANY WORK. ALL WORK FOR STORM AND SANITARY SEWER INSTALLATION SHALL BEGIN AT THE DOWNSTREAM CONNECTION POINT. THIS WILL ALLOW FOR ANY NECESSARY ADJUSTMENTS TO BE MADE PRIOR TO THE INSTALLATION OF THE ENTIRE LINE. IF THE CONTRACTOR FAILS TO BEGIN AT THE DOWNSTREAM CONNECTION POINT AND WORK UP-STREAM, AND SHALL PROCEED AT HIS OWN RISK AND BE RESPONSIBLE FOR ANY ADJUSTMENTS NECESSARY.
- 7. EXISTING UTILITY CROSSINGS OF NEW PIPELINE ARE SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. GAS, WATER AND SEWER SERVICE LATERALS ARE SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE TYPE, SIZE, LOCATION AND DEPTH OF ALL THE UTILITY CROSSING (BOTH MAINS AND LATERALS) ARE CORRECT AS SHOWN. NO GUARANTEE IS MADE THAT ALL EXISTING UTILITIES (BOTH MAINS AND LATERALS) ARE SHOWN. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING AND SHALL PROTECT ALL EXISTING UTILITIES (BOTH MAINS AND LATERALS) FROM DAMAGE DUE TO HIS OPERATION.
- 8. VERTICAL SEPARATION REQUIREMENTS (UNLESS SPECIFICALLY SHOWN OTHERWISE ON PLANS):
 - A MINIMUM OF SIX (6) INCHES VERTICAL CLEARANCE, MEASURED FROM OUTSIDE EDGE OF PIPE, SHALL BE PROVIDED BETWEEN CROSSING UTILITY PIPES, EXCEPT THAT THE MINIMUM VERTICAL CLEARANCE BETWEEN WATER AND SANITARY SEWER PIPELINES SHALL BE 12 INCHES AND ALL NEW WATER PIPES SHALL BE TYPICALLY INSTALLED TO CROSS ABOVE/OVER EXISTING SANITARY SEWER PIPELINES.
 - WHERE NEW WATER PIPELINES ARE REQUIRED TO CROSS UNDER EXISTING AND OR NEW SANITARY SEWER PIPELINES. THE MINIMUM VERTICAL SEPARATION SHALL BE 12 INCHES. WATER LINE PIPE ENDS SHALL BE INSTALLED NO CLOSER THAN 10' MINIMUM HORIZONTAL DISTANCE FROM CENTERLINE OF UTILITY CROSSINGS, WHERE FEASIBLE.
- 9. HORIZONTAL SEPARATION REQUIREMENTS (UNLESS SPECIFICALLY SHOWN OTHERWISE
 - A MINIMUM HORIZONTAL SEPARATION BETWEEN NEW PIPELINES AND ANY EXISTING UTILITIES SHALL BE 5' FEET, EXCEPT THAT THE MINIMUM HORIZONTAL SEPARATION FOR WATER AND SANITARY SEWER MAIN PIPELINES SHALL BE 10'
 - A MINIMUM HORIZONTAL SEPARATION BETWEEN NEW PIPELINES AND JOINT TRENCH SHALL BE 5 FEET.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING APPROPRIATE UTILITIES AND REQUESTING VERIFICATION OF SERVICE POINTS, FIELD VERIFICATION OF LOCATION, SIZE, DEPTH, ETC. FOR ALL THEIR FACILITIES AND TO COORDINATE WORK SCHEDULES.
- 11. ANY EXISTING UNDERGROUND UTILITY LINES TO BE ABANDONED. SHALL BE REMOVED FROM WITHIN THE PROPOSED BUILDING ENVELOPE AND THEIR ENDS CAPPED OUTSIDE OF THE BUILDING ENVELOPE.
- 12. ANY PIPING TO BE ABANDONED IN PLACE SHALL BE FILLED WITH GROUT AND CAPPED.

PAVEMENT SECTIONS

- 1. SEE GEOTECHNICAL REPORT FOR CITY OF PITTSBURG FRONTAGE ROAD LIVING GREEN TRAIL DATED DECEMBER 20, 2022 FROM NINYO & MOORE FOR ALL FLATWORK AND PEDESTRIAN PAVEMENT SECTIONS AND BASE REQUIREMENTS.
- 2. THE FINAL OR SURFACE LAYER OF ASPHALT CONCRETE SHALL NOT BE PLACED UNTIL ALL ON-SITE IMPROVEMENTS HAVE BEEN COMPLETED, INCLUDING ALL GRADING, AND ALL UNACCEPTABLE CONCRETE WORK HAS BEEN REMOVED AND REPLACED, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER AND/OR DEVELOPER'S CIVIL ENGINEER.
- 3. ALL PAVING SHALL BE IN CONFORMANCE WITH SECTION 26 "AGGREGATE BASE" AND SECTION 39 "ASPHALT CONCRETE" PER LATEST EDITION OF CALTRANS STANDARD SPECIFICATIONS.

DUST CONTROL NOTES

- WATER TRUCKS SHALL BE PRESENT AND IN USE AT THE CONSTRUCTION SITE. ALL PORTIONS OF THE SITE SUBJECT TO BLOWING DUST SHALL BE WATERED AS OFTEN AS DEEMED NECESSARY BY THE CLIENT/INSPECTOR IN ORDER TO INSURE PROPER CONTROL OF BLOWING DUST FOR THE DURATION OF THE PROJECT.
- 2. ALL PUBLIC STREETS AND MEDIANS SOILED OR LITTERED DUE TO THIS CONSTRUCTION ACTIVITY SHALL BE CLEANED AND SWEPT ON A DAILY BASIS DURING THE WORK WEEK, OR AS OFTEN AS DEEMED NECESSARY BY THE CLIENT/INSPECTOR, OR TO THE SATISFACTION OF THE CITY'S DEPARTMENT OF PUBLIC WORKS.
- 3. ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS SHALL BE COVERED WITH TARPAULINS OR OTHER EFFECTIVE COVERS.
- AND EQUIPMENT LEAVING THE CONSTRUCTION SITE. IF WHEEL WASHERS CANNOT BE INSTALLED, TIRES OR TRACKS OF ALL TRUCKS AND EQUIPMENT SHALL BE WASHED OFF BEFORE LEAVING THE CONSTRUCTION SITE.
- 5. THE CONTRACTOR SHALL DEMONSTRATE DUST SUPPRESSION MEASURES, SUCH AS REGULAR WATERING, WHICH SHALL BE IMPLEMENTED TO REDUCE EMISSIONS DURING CONSTRUCTION AND GRADING IN A MANNER MEETING THE APPROVAL OF THE CONSTRUCTION MANAGER. THIS SHALL ASSIST IN REDUCING SHORT-TERM IMPACTS FROM PARTICLES WHICH COULD RESULT IN NUISANCES THAT ARE PROHIBITED BY RULE 403 (FUGITIVE DUST).
- GRADING OR ANY OTHER OPERATIONS THAT CREATES DUST SHALL BE STOPPED IMMEDIATELY IF DUST AFFECTS ADJACENT PROPERTIES. THE CONTRACTOR SHALL PROVIDE SUFFICIENT DUST CONTROL FOR THE ENTIRE PROJECT SITE IN ACCORDANCE WITH THE PROJECT SWPPP (IF ONE EXISTS) OR AS APPLICABLE PER LOCAL REGULATIONS AT ALL TIMES. THE SITE SHALL BE SPRINKLERED AS NECESSARY TO PREVENT DUST NUISANCE. IN THE EVENT THAT THE CONTRACTOR NEGLECTS TO USE ADEQUATE MEASURES TO CONTROL DUST. THE CLIENT RESERVES THE RIGHT TO TAKE WHATEVER MEASURES ARE NECESSARY TO CONTROL DUST AND CHARGE THE COST TO THE CONTRACTOR.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL MEASURES AND FOR OBTAINING ALL REQUIRED PERMITS AND APPROVALS. ALL GRADING OPERATIONS SHALL BE SUSPENDED DURING SECOND (OR WORSE) STAGE SMOG ALERTS.

GENERAL SITE NOTES

- CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING ON THIS WORK AND CONSIDER THE EXISTING CONDITIONS AND SITE CONSTRAINTS IN THE BID. CONTRACTOR SHALL BE IN THE POSSESSION OF AND FAMILIAR WITH ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS AND SPECIFICATIONS PRIOR TO SUBMITTING OF A BID.
- ALL WORK ON-SITE AND IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS & SPECIFICATIONS.
- 3. PRIOR TO BEGINNING WORK, AND AFTER INITIAL HORIZONTAL CONTROL STAKING, CONTRACTOR SHALL FIELD CHECK ALL ELEVATIONS MARKED WITH (E) AND REPORT ANY DISCREPANCIES GREATER THAN 0.05' TO THE ENGINEER.
- 4. DAMAGE TO ANY EXISTING SITE IMPROVEMENTS, UTILITIES AND/OR SERVICES TO REMAIN SHALL BE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
- 5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DEFEND INDEMNIFY AND HOLD THE CLIENT, THE CONSULTING ENGINEER AND THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED. IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT. EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CLIENT OR THE CONSULTING ENGINEER.

TREE PROTECTION

- 1. PRIOR TO BEGINNING CONSTRUCTION ON SITE, CONTRACTOR SHALL IDENTIFY AND PROTECT EXISTING TREES AND PLANTS DESIGNATED AS TO REMAIN.
- 2. PROTECT EXISTING TREES TO REMAIN FROM SPILLED CHEMICALS, FUEL OIL. MOTOR OIL. GASOLINE AND ALL OTHER CHEMICALLY INJURIOUS MATERIAL; AS WELL AS FROM PUDDLING OR CONTINUOUSLY RUNNING WATER. SHOULD A SPILL OCCUR, STOP WORK IN THAT AREA AND CONTACT THE CITY'S ENGINEER/INSPECTOR IMMEDIATELY. CONTRACTOR SHALL BE RESPONSIBLE TO MITIGATE DAMAGE FROM SPILLED MATERIAL AS WELL AS MATERIAL CLEAN UP.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ONGOING MAINTENANCE OF ALL TREES DESIGNATED TO REMAIN AND FOR MAINTENANCE OF RELOCATED TREES STOCKPILED DURING CONSTRUCTION. CONTRACTOR WILL BE REQUIRED TO REPLACE TREES THAT DIE DUE TO LACK OF MAINTENANCE.
- 4. REFER TO LANDSCAPE PLANS, SPECIFICATIONS OR ARBORIST REPORT FOR TREE PROTECTION REQUIREMENTS AND MEASURES.

PROJECT SITE MAINTENANCE

- REMOVE ALL DIRT, GRAVEL, RUBBISH, REFUSE, AND GREEN WASTE FROM STREET PAVEMENT AND STORM DRAINS ADJOINING THE SITE. LIMIT CONSTRUCTION ACCESS ROUTES ONTO THE SITE AND PLACE GRAVEL PADS AT THESE LOCATIONS. DO NOT DRIVE VEHICLES AND EQUIPMENT OFF THE PAVED OR GRAVELED AREAS DURING WET WEATHER.
- 2. SWEEP OR VACUUM THE STREET PAVEMENT AND SIDEWALKS ADJOINING THE PROJECT SITE AND THE ON-SITE PAVED AREAS ON A DAILY BASIS. SCRAPE CAKED-ON MUD AND DIRT FROM THESE AREAS BEFORE SWEEPING. CORNERS AND HARD TO REACH AREAS SHALL BE SWEPT MANUALLY.
- 3. CREATE A CONTAINED AND COVERED AREA ON THE SITE FOR THE STORAGE OF BAGS, CEMENT, PAINTS, OILS, FERTILIZERS, PESTICIDES, OR OTHER MATERIALS USED ON THE SITE THAT HAVE THE POTENTIAL OF BEING DISCHARGED INTO THE STORM DRAIN SYSTEM THROUGH EITHER BEING WIND-BLOWN OR IN THE EVENT OF A MATERIAL SPILL.
- 4. NEVER CLEAN MACHINERY, EQUIPMENT OR TOOLS INTO A STREET, GUTTER OR STORM DRAIN.
- 5. ENSURE THAT CEMENT TRUCKS, PAINTERS, OR STUCCO/PLASTER FINISHING CONTRACTORS DO NOT DISCHARGE WASH WATER FROM EQUIPMENT, TOOLS OR RINSE CONTAINERS INTO GUTTERS OR DRAINS.



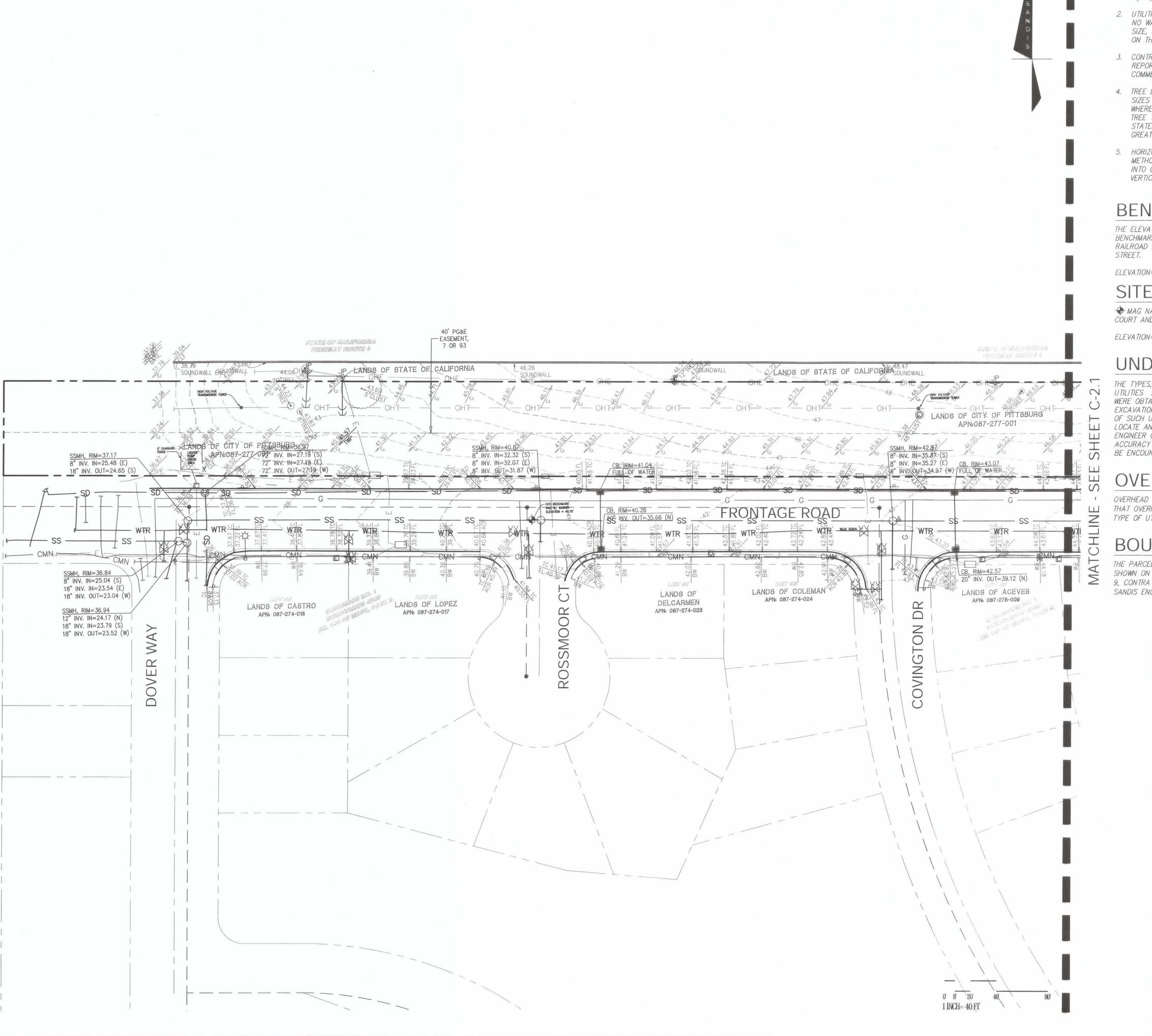


R E

 \leq

SHEET NO. 2 OF 59

DWG. NO. C-1.1



SURVEY NOTES

- 1. EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN HEREON IS BASED UPON TOPOGRAPHIC SURVEYS COMPLETED BY SANDIS ON 10/29/2022 AND 11/04/2022, UNDER THE DIRECTION OF LAURA CABRAL, PLS 7756.
- 2. UTILITIES SHOWN ON THIS SURVEY ARE BASED ON SURFACE OBSERVATIONS.
 NO WARRANTIES ARE EXPRESSED OR IMPLIED CONCERNING THE EXISTENCE,
 SIZE, DEPTH, CONDITION, CAPACITY, OR LOCATION OR ANY UTILITY EXISTING
 ON THE SITE, WHETHER PRIVATE, MUNICIPAL, OR PUBLIC OWNED.
- 3. CONTRACTOR SHALL VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION AND REPORT BACK TO CIVIL ENGINEER ANY DISCREPANCIES WITH PLAN PRIOR TO COMMENCEMENT OF WORK.
- 4. TREE LOCATIONS SHOWN HEREON ARE SHOWN SYMBOLICALLY WITH SYMBOL SIZES BASED UPON TRUNK DIAMETER AT CHEST HEIGHT, AT THE LOCATION WHERE THE TREE ENTERS THE GROUND SURFACE. LOCATIONS AND SIZES OF TREE TRUNKS CAN ONLY BE CONSIDERED APPROXIMATE UNLESS OTHERWISE STATED ON THE MAP. TREES OF TRUNK DIAMETER SIZES OF 6 INCHES OR GREATER WERE LOCATED BY THE FIELD CREW.
- 5. HORIZONTAL CONTROL WAS BASED ON A GPS SURVEY USING GNSS RTK
 METHODS CONNECTED TO THE LEICA SMARTNET REAL TIME NETWORK TIED
 INTO CALIFORNIA STATE PLANE COORDINATES NAD83, EPOCH 2020.50
 VERTICAL CONTROL WAS BASED ON CONTRA COSTA COUNTY BENCHMARK 171.

BENCHMARK

THE ELEVATION REFERENCE FOR THIS SURVEY IS A CONTRA COSTA COUNTY BENCHMARK, BM ID 171, SET ON AN EBMUD BOX ON THE EAST SIDE OF RAILROAD AVENUE AT THE INTERSECTION OF RAILROAD AVENUE AND ALVARDO STREET

ELEVATION= 105.39 FEET NAVD 88

SITE BENCHMARK

MAG NAIL WITH WASHER SET IN ASPHALT AT THE INTERSECTION OF ROSSMOOR COURT AND FRONTAGE ROAD

ELEVATION=43.51 FEET NAVD 88

UNDERGROUND UTILITY NOTE

THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THIS SURVEY.

OVERHEAD UTILITY NOTE

OVERHEAD UTILITY LINES SHOWN HEREON ARE FOR REFERENCE ONLY, DEPICTING THAT OVERHEAD LINES EXIST. ACTUAL ATTACHMENT, LOCATION, HEIGHT AND TYPE OF UTILITY SERVICE LINES SHALL BE VERIFIED BY THE USER.

BOUNDARY NOTE

THE PARCEL LINES SHOWN HEREON ARE BASED UPON RECORD INFORMATION AS SHOWN ON THAT CERTAIN SUBDIVISION MAP FILED IN BOOK 144 OF MAPS, PAGE 9, CONTRA COSTA COUNTY RECORDS. NO TITLE REPORT WAS OBTAINED BY SANDIS ENGINEERS. EASEMENTS MAY EXIST THAT ARE NOT SHOWN HEREON

No. C68315 DAM Exp. 9/30/25 X

PARED UNDER THE DIRECTION OF:

9/20/23
J. BROWNING DATE:

JOHN SAMUELSON City Engineer Date: 9/26/23

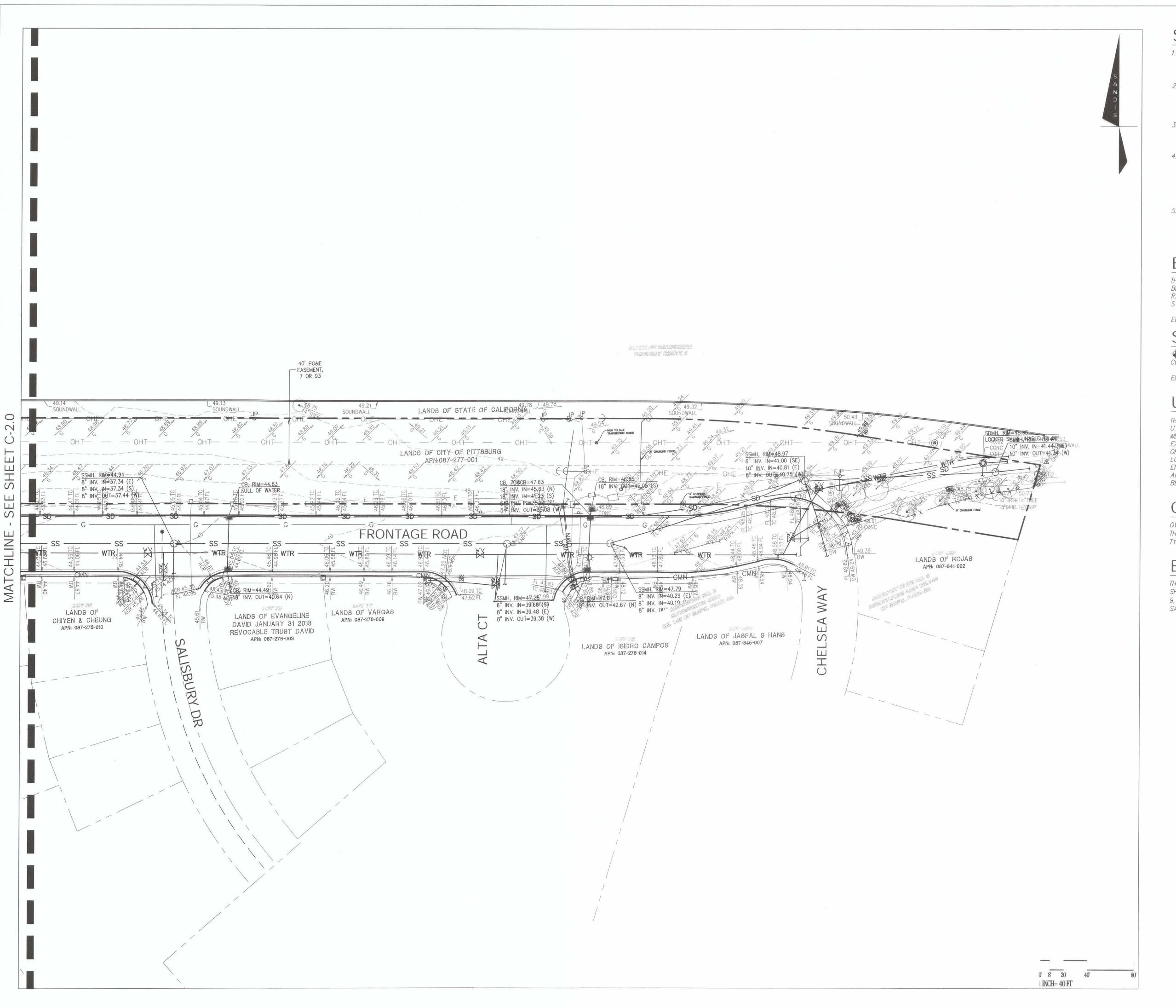
Pittsburg Date:

POGRAPHIC SURVEY
CONTRACT NAME:
CONTRACT NUMBER:

REVIEWED:CB
DATE: 09/05/23
SCALE: AS NOTED

SHEET NO. 3 OF 59

DWG. NO.



SURVEY NOTES

- 1. EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN HEREON IS BASED UPON TOPOGRAPHIC SURVEYS COMPLETED BY SANDIS ON 10/29/2022 AND 11/04/2022, UNDER THE DIRECTION OF LAURA CABRAL, PLS 7756.
- 2. UTILITIES SHOWN ON THIS SURVEY ARE BASED ON SURFACE OBSERVATIONS.
 NO WARRANTIES ARE EXPRESSED OR IMPLIED CONCERNING THE EXISTENCE,
 SIZE, DEPTH, CONDITION, CAPACITY, OR LOCATION OR ANY UTILITY EXISTING
 ON THE SITE, WHETHER PRIVATE, MUNICIPAL, OR PUBLIC OWNED.
- 3. CONTRACTOR SHALL VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION AND REPORT BACK TO CIVIL ENGINEER ANY DISCREPANCIES WITH PLAN PRIOR TO COMMENCEMENT OF WORK.
- 4. TREE LOCATIONS SHOWN HEREON ARE SHOWN SYMBOLICALLY WITH SYMBOL SIZES BASED UPON TRUNK DIAMETER AT CHEST HEIGHT, AT THE LOCATION WHERE THE TREE ENTERS THE GROUND SURFACE. LOCATIONS AND SIZES OF TREE TRUNKS CAN ONLY BE CONSIDERED APPROXIMATE UNLESS OTHERWISE STATED ON THE MAP. TREES OF TRUNK DIAMETER SIZES OF 6 INCHES OR GREATER WERE LOCATED BY THE FIELD CREW.
- 5. HORIZONTAL CONTROL WAS BASED ON A GPS SURVEY USING GNSS RTK
 METHODS CONNECTED TO THE LEICA SMARTNET REAL TIME NETWORK TIED
 INTO CALIFORNIA STATE PLANE COORDINATES NAD83, EPOCH 2020.50
 VERTICAL CONTROL WAS BASED ON CONTRA COSTA COUNTY BENCHMARK 171.

BENCHMARK

THE ELEVATION REFERENCE FOR THIS SURVEY IS A CONTRA COSTA COUNTY BENCHMARK, BM ID 171, SET ON AN EBMUD BOX ON THE EAST SIDE OF RAILROAD AVENUE AT THE INTERSECTION OF RAILROAD AVENUE AND ALVARDO STREET.

ELEVATION= 105.39 FEET NAVD 88

SITE BENCHMARK

→ MAG NAIL WITH WASHER SET IN ASPHALT AT THE INTERSECTION OF ROSSMOOR COURT AND FRONTAGE ROAD

ELEVATION=43.51 FEET NAVD 88

UNDERGROUND UTILITY NOTE

THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THIS SURVEY.

OVERHEAD UTILITY NOTE

OVERHEAD UTILITY LINES SHOWN HEREON ARE FOR REFERENCE ONLY, DEPICTING THAT OVERHEAD LINES EXIST. ACTUAL ATTACHMENT, LOCATION, HEIGHT AND TYPE OF UTILITY SERVICE LINES SHALL BE VERIFIED BY THE USER.

BOUNDARY NOTE

THE PARCEL LINES SHOWN HEREON ARE BASED UPON RECORD INFORMATION AS SHOWN ON THAT CERTAIN SUBDIVISION MAP FILED IN BOOK 144 OF MAPS, PAGE 9, CONTRA COSTA COUNTY RECORDS. NO TITLE REPORT WAS OBTAINED BY SANDIS ENGINEERS. EASEMENTS MAY EXIST THAT ARE NOT SHOWN HEREON

No. C68315 528 Exp. 9/30/25

PREPARED UNDER THE DIRECTION

9/20/
SHAD J. BROWNING

DATE:

JOHN SAMUELSON City Engineer Date: 9/26/23

Tity of Pittsbur

TOPOGRAPHIC SURVEY

CONTRACT NAME:
CONTRACT NUMBER.

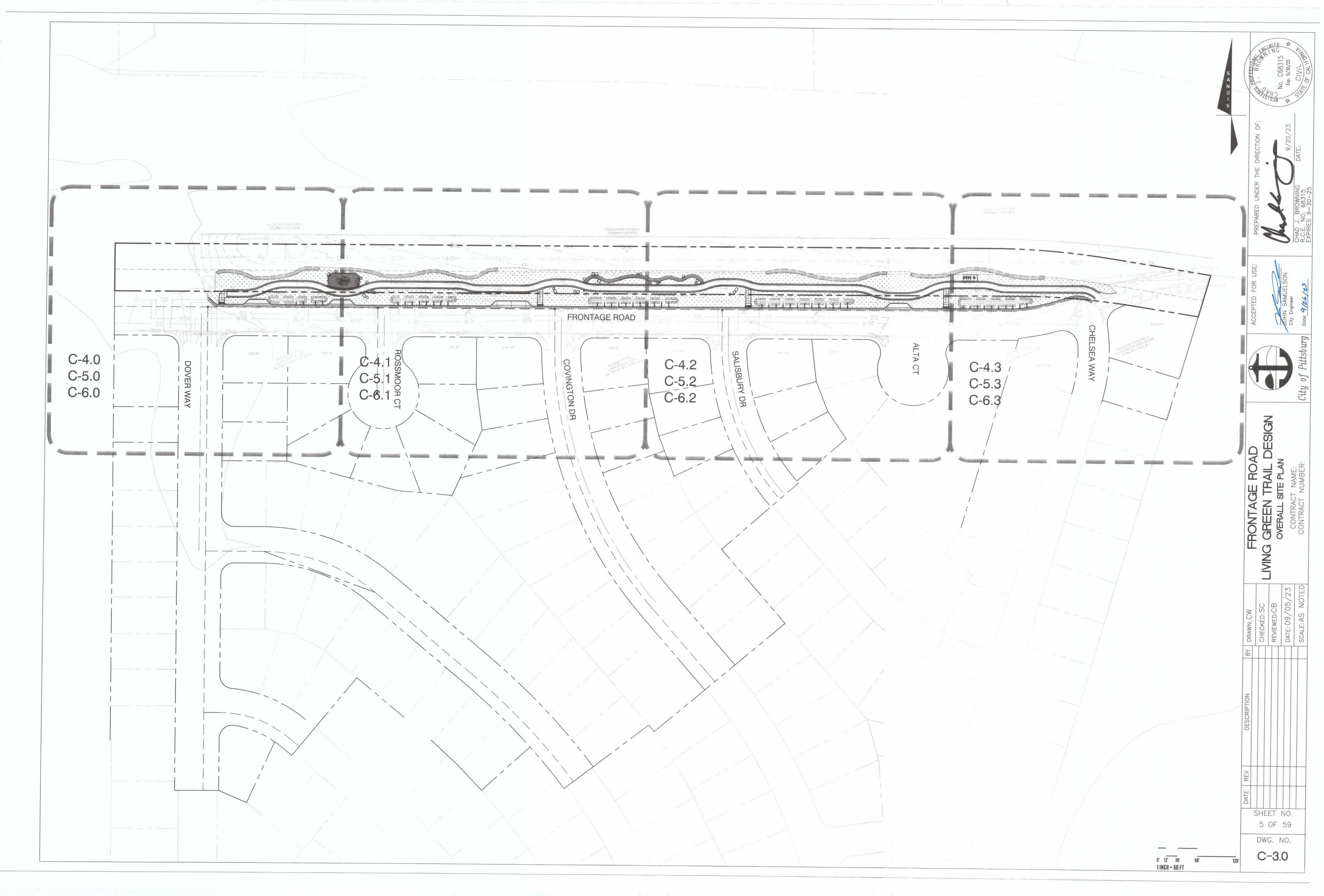
CHECKED: SC
REVIEWED: CB
DATE: 09/05/23
SCALE: AS NOTED

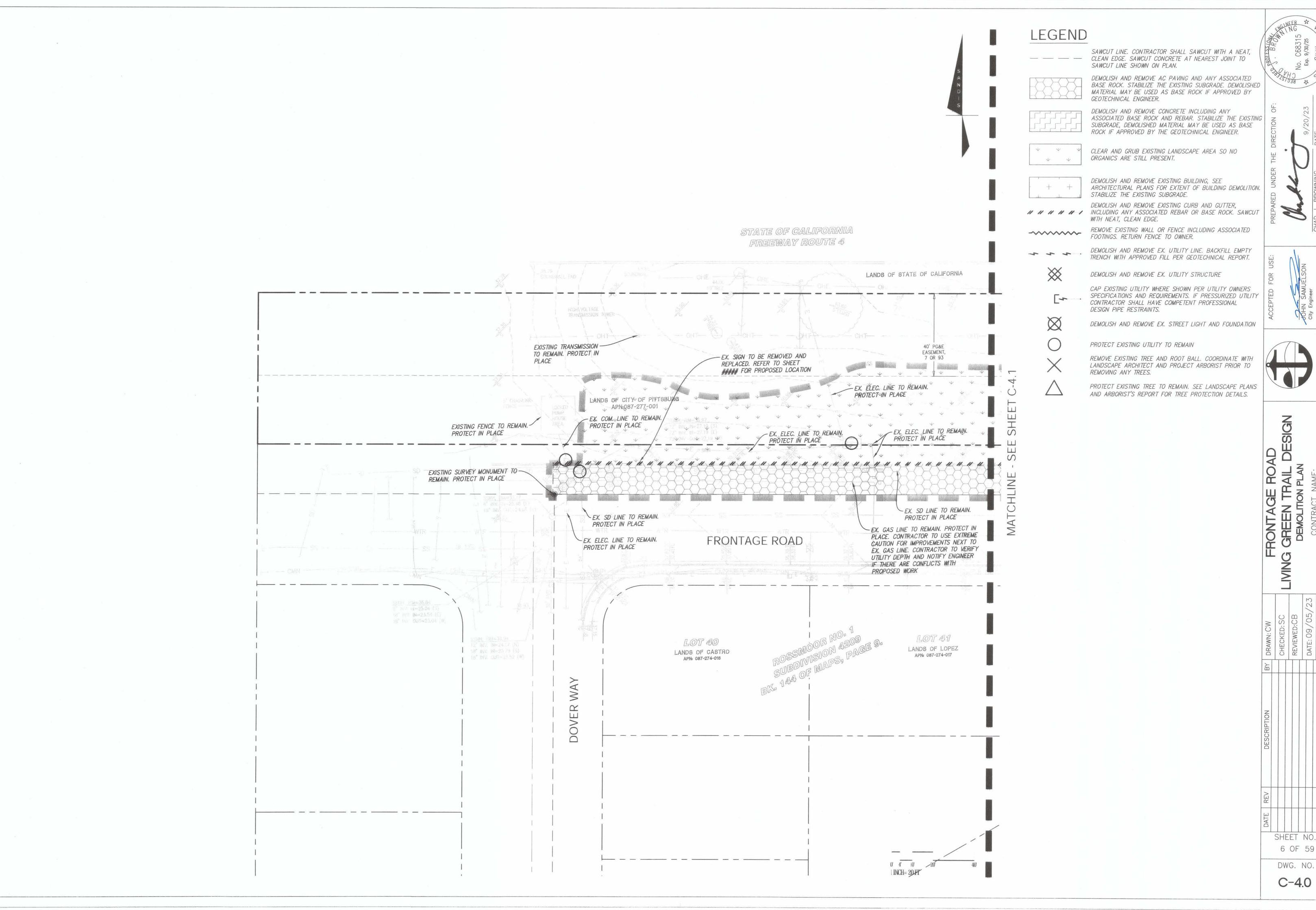
DESCRIPTION

SHEET NO.

4 OF 59 DWG. NO.

C-2.1

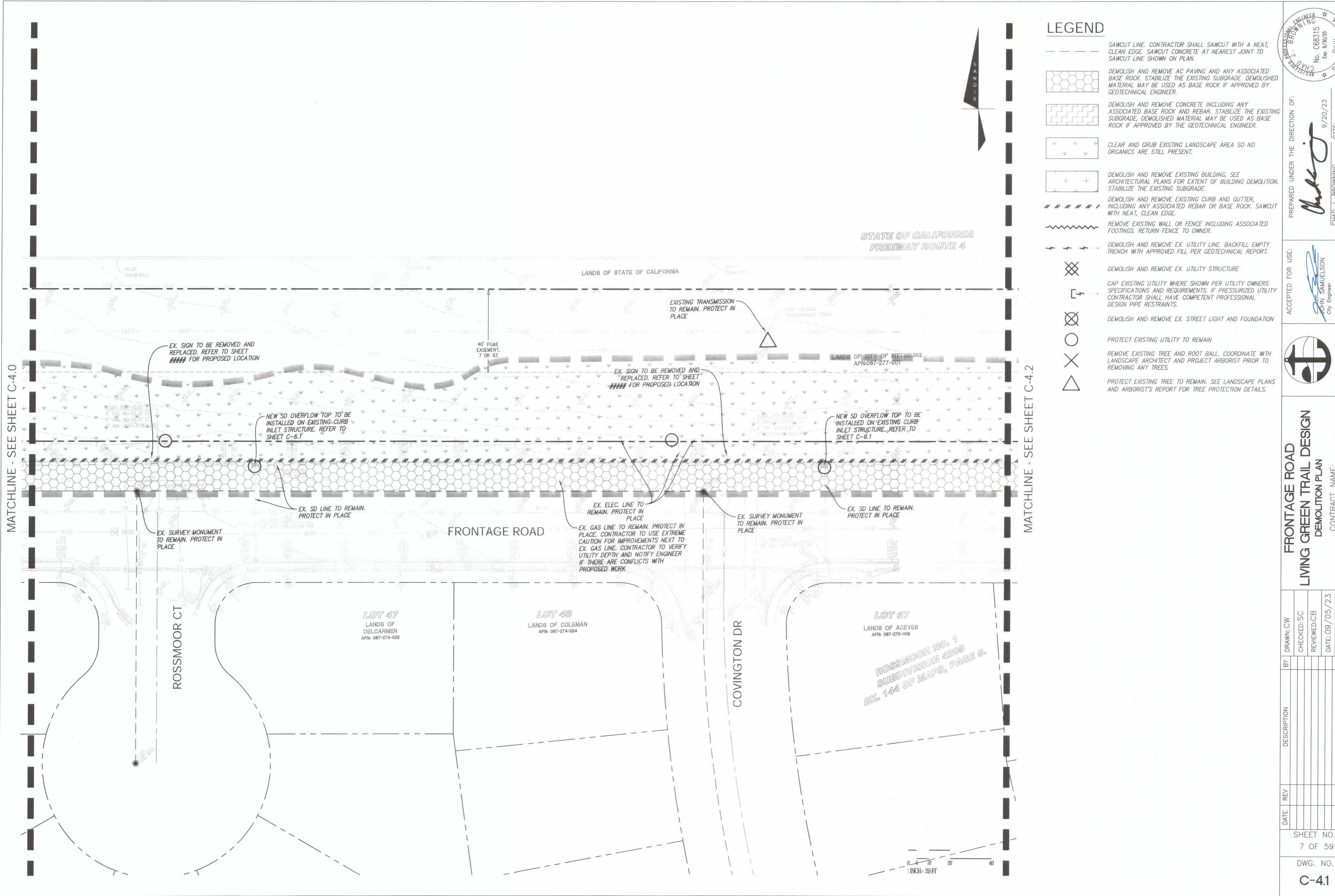




SHEET NO.

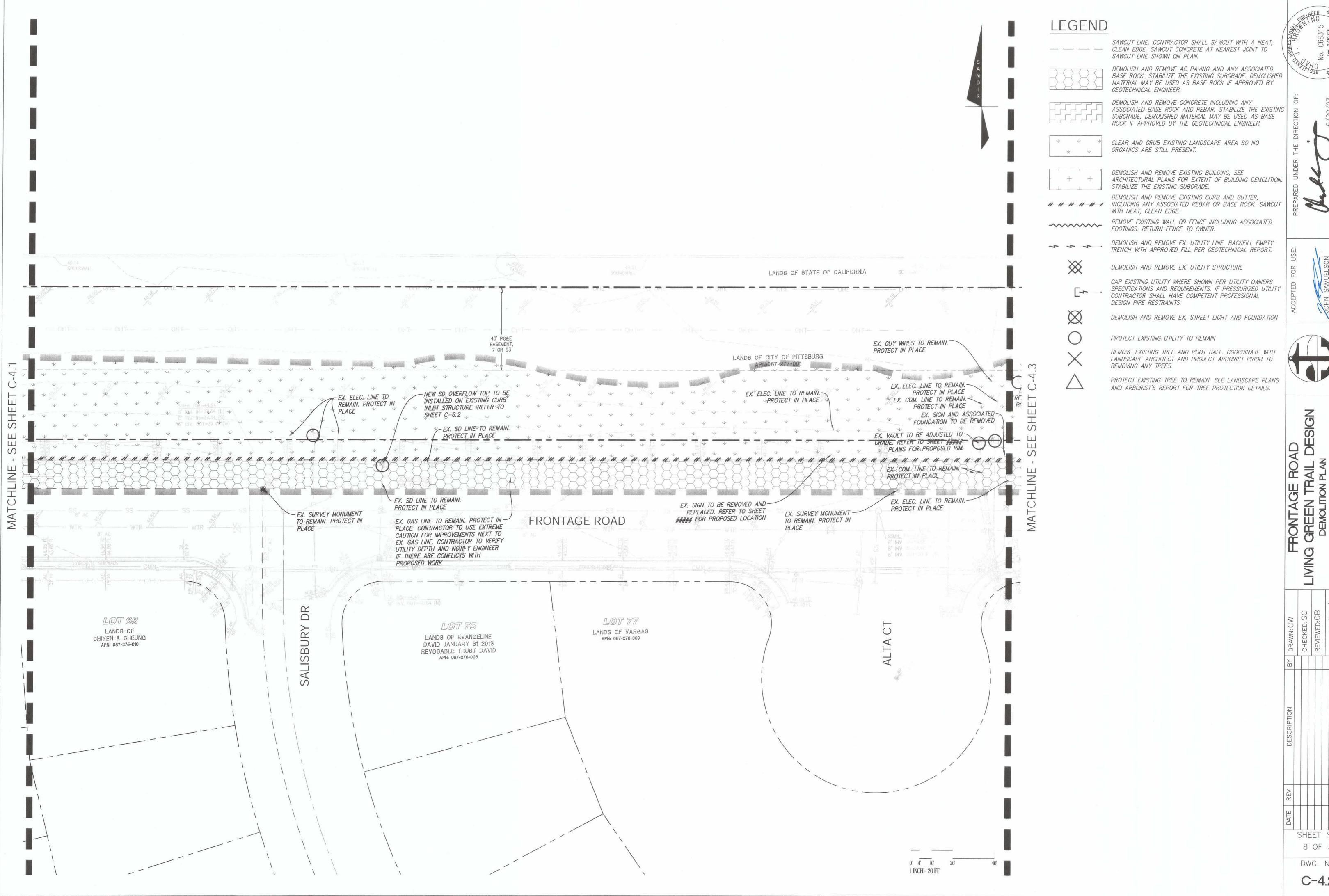
6 OF 59

C-4.0



SHEET NO. 7 OF 59

C-4.1



SHEET NO. 8 OF 59

DWG. NO.

C-4.2

STATE OF CALIFORNIA FREEWAY ROUTE 4 - EXISTING TRANSMISSION EXISTING TRANSMISSION -TO REMAIN. PROTECT IN TOWER TO REMAIN. PLACE EX. CLF TO BE REMOVED AND REPLACED. REFER TO SHEET ##### FOR NEW LOCATION SOUNDWALL 40' PG&E EX. OHE LINE TO REMAIN. PROTECT IN EASEMENT, PLACE. USE EXTREME CAUTION WHEN EX. WATER LINE TO WORKING BELOW REMAIN. PROTECT IN PLACE - EX. GUY WIRE TO REMAIN. PROTECT IN PLACE. - EX. SIGN TO BE REMOVED AND REPLACED. REFER TO SHEET USE CAUTION WHILE REMOVING TREE THAT C-4.0 FOR PROPOSED LOCATION EX. ELEC. LINE TO REMAIN. ROOTS. DO NOT RULL PROTECT IN PLACE UP ELECTRICAL EX. SD LINE TO REMAIN. A PROTECT IN PLACE V EX. SDCB AND ASSOCIATED SD LINE TO BE REMOVED SD LINE TO BE REMOVED REMOVE (2) BOLLARDS
AND ASSOCIATED
FOOTINGS - EX. GAS LINE TO REMAIN. PROTECT IN PLACE. CONTRACTOR TO USE EXTREME NEW SD OVERFLOW TOP TO BE INSTALLED ON EXISTING CURB EX. SS TO REMAIN.
PROTECT IN PLACE CAUTION FOR IMPROVEMENTS NEXT TO INLET STRUCTURE. REFER TO EX. GAS LINE. CONTRACTOR TO VERIFY UTILITY DEPTH AND NOTIFY ENGINEER
IF THERE ARE CONFLICTS WITH SHEET C-6.3 FRONTAGE ROAD LOT 489 - EX. SD LINE TO REMAIN. PROTECT IN PLACE PROPOSED WORK LANDS OF ROJAS APN: 087-341-002 8" INV IN=40.19 (E) 8" INV. OUT=40.14 (W) LOT 490 LANDS OF JASPAL S HANS APN 087-345-007 LOT 72 LANDS OF ISIDRO CAMPOS APN: 087-276-014

LEGEND

SAWCUT LINE. CONTRACTOR SHALL SAWCUT WITH A NEAT,
— — — — CLEAN EDGE. SAWCUT CONCRETE AT NEAREST JOINT TO
SAWCUT LINE SHOWN ON PLAN.

DEMOLISH AND REMOVE AC PAVING AND ANY ASSOCIATED BASE ROCK. STABILIZE THE EXISTING SUBGRADE. DEMOLISHED MATERIAL MAY BE USED AS BASE ROCK IF APPROVED BY GEOTECHNICAL ENGINEER.

DEMOLISH AND REMOVE CONCRETE INCLUDING ANY
ASSOCIATED BASE ROCK AND REBAR. STABILIZE THE EXISTING
SUBGRADE, DEMOLISHED MATERIAL MAY BE USED AS BASE
ROCK IF APPROVED BY THE GEOTECHNICAL ENGINEER.

CLEAR AND GRUB EXISTING LANDSCAPE AREA SO NO ORGANICS ARE STILL PRESENT.

DEMOLISH AND REMOVE EXISTING BUILDING, SEE
ARCHITECTURAL PLANS FOR EXTENT OF BUILDING DEMOLITION.
STABILIZE THE EXISTING SUBGRADE.

INCLUDING ANY ASSOCIATED REBAR OR BASE ROCK. SAWCUT WITH NEAT, CLEAN EDGE.

REMOVE EXISTING WALL OR FENCE INCLUDING ASSOCIATED

FOOTINGS. RETURN FENCE TO OWNER.

DEMOLISH AND REMOVE EXISTING CURB AND GUTTER.

DEMOLISH AND REMOVE EX. UTILITY LINE. BACKFILL EMPTY TRENCH WITH APPROVED FILL PER GEOTECHNICAL REPORT.

DEMOLISH AND REMOVE EX. UTILITY STRUCTURE

CAP EXISTING UTILITY WHERE SHOWN PER UTILITY OWNERS SPECIFICATIONS AND REQUIREMENTS. IF PRESSURIZED UTILITY CONTRACTOR SHALL HAVE COMPETENT PROFESSIONAL DESIGN PIPE RESTRAINTS.

DEMOLISH AND REMOVE EX. STREET LIGHT AND FOUNDATION

PROTECT EXISTING UTILITY TO REMAIN

REMOVE EXISTING TREE AND ROOT BALL. COORDINATE WITH LANDSCAPE ARCHITECT AND PROJECT ARBORIST PRIOR TO REMOVING ANY TREES.

PROTECT EXISTING TREE TO REMAIN. SEE LANDSCAPE PLANS AND ARBORIST'S REPORT FOR TREE PROTECTION DETAILS.

SALESSION BROWN STATE OF CALIFORNIA WAY OF CALIF

9/20/23 & Exp. 9/30

EPARED UNDER THE DIRECTION

9/20/
J. BROWNING

DATE:

CHAD J. BROWNIP R.C.E. NO. 68315 EXPIRES 9-30-2

JOHN SAMUELSON City Engineer Date: 9/26/23

of Pittsburg

TRAIL DESIGN
ON PLAN
T NAME:

AING GREEN TRAIL
DEMOLITION PLAN
CONTRACT NAME:

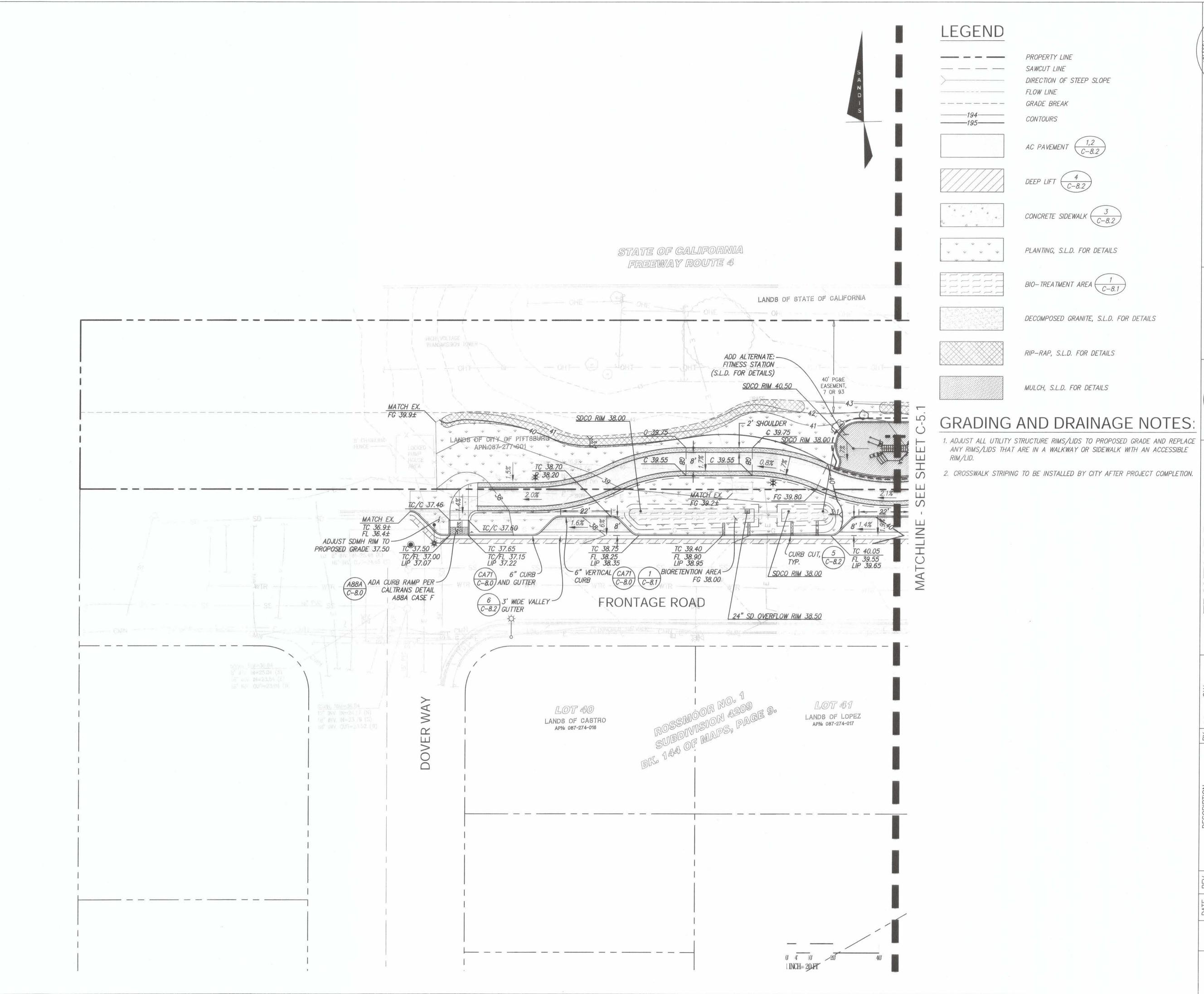
CHECKED: SC REVIEWED: CB DATE: 09/05/23 SCALE: AS NOTED

SHEET NO.
9 OF 59

DWG. NO.

C-4.3

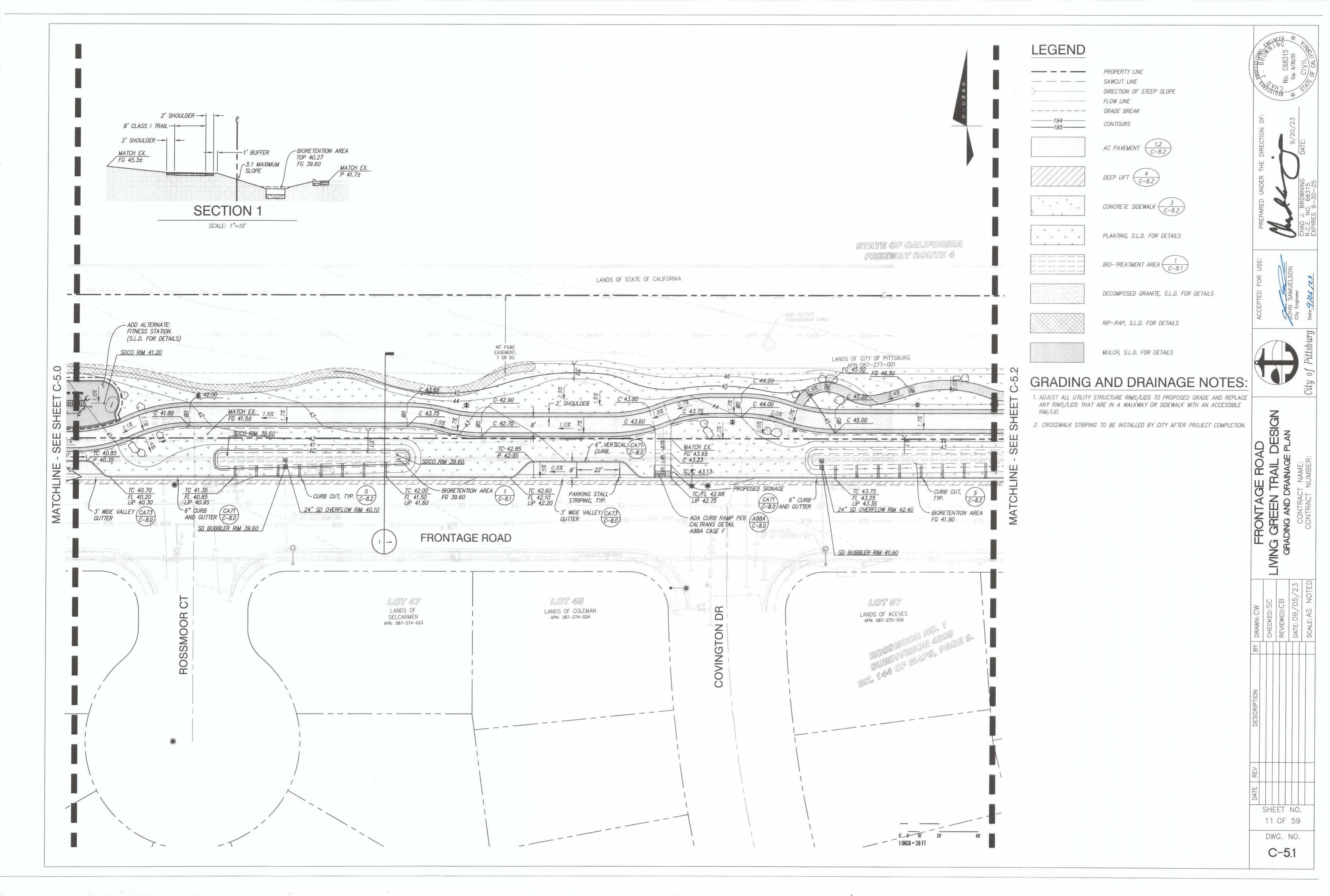
0' 4' | 0' 20' | INCH= 20 FT

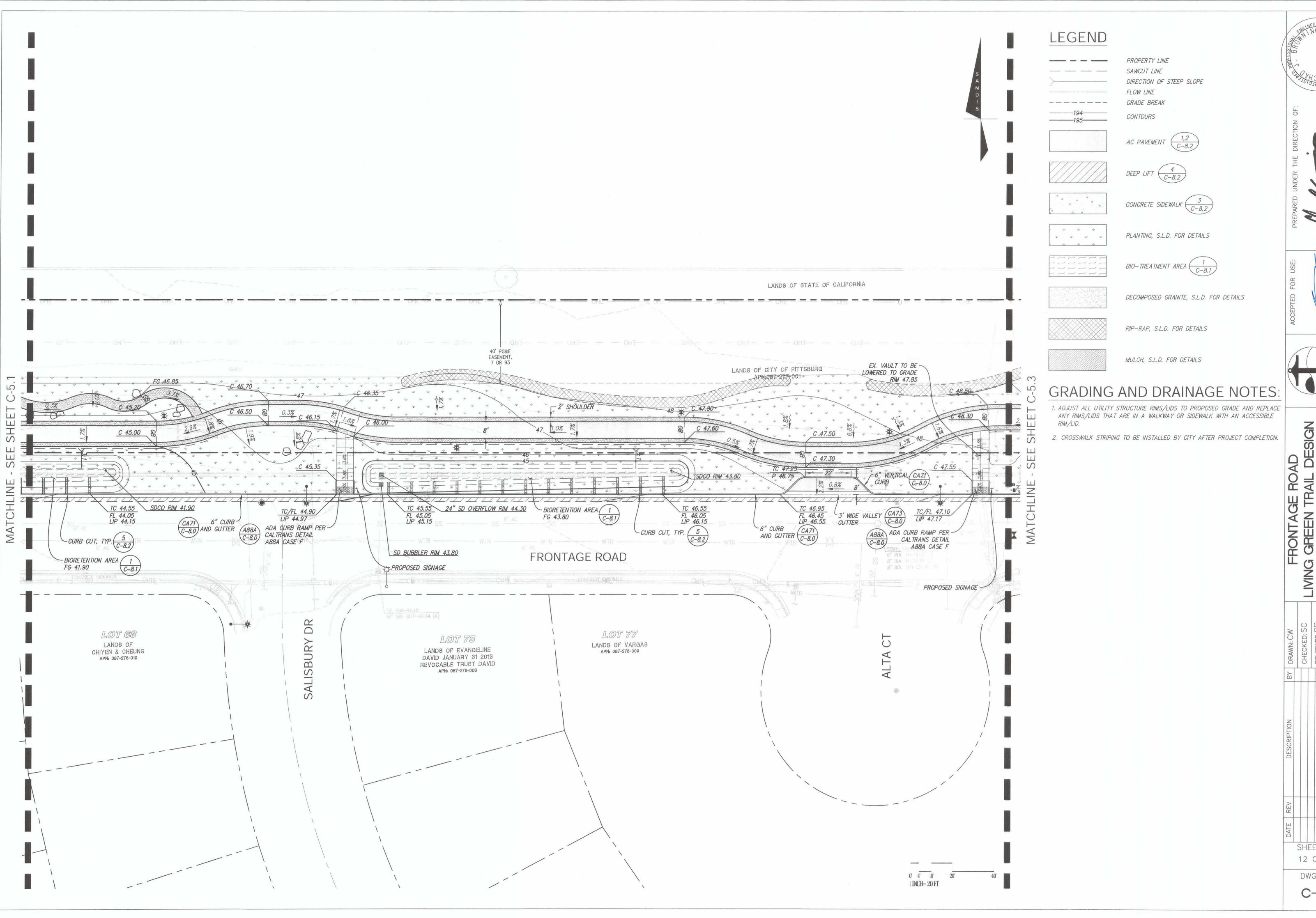


SHEET NO. 10 OF 59

DWG. NO.

C-5.0

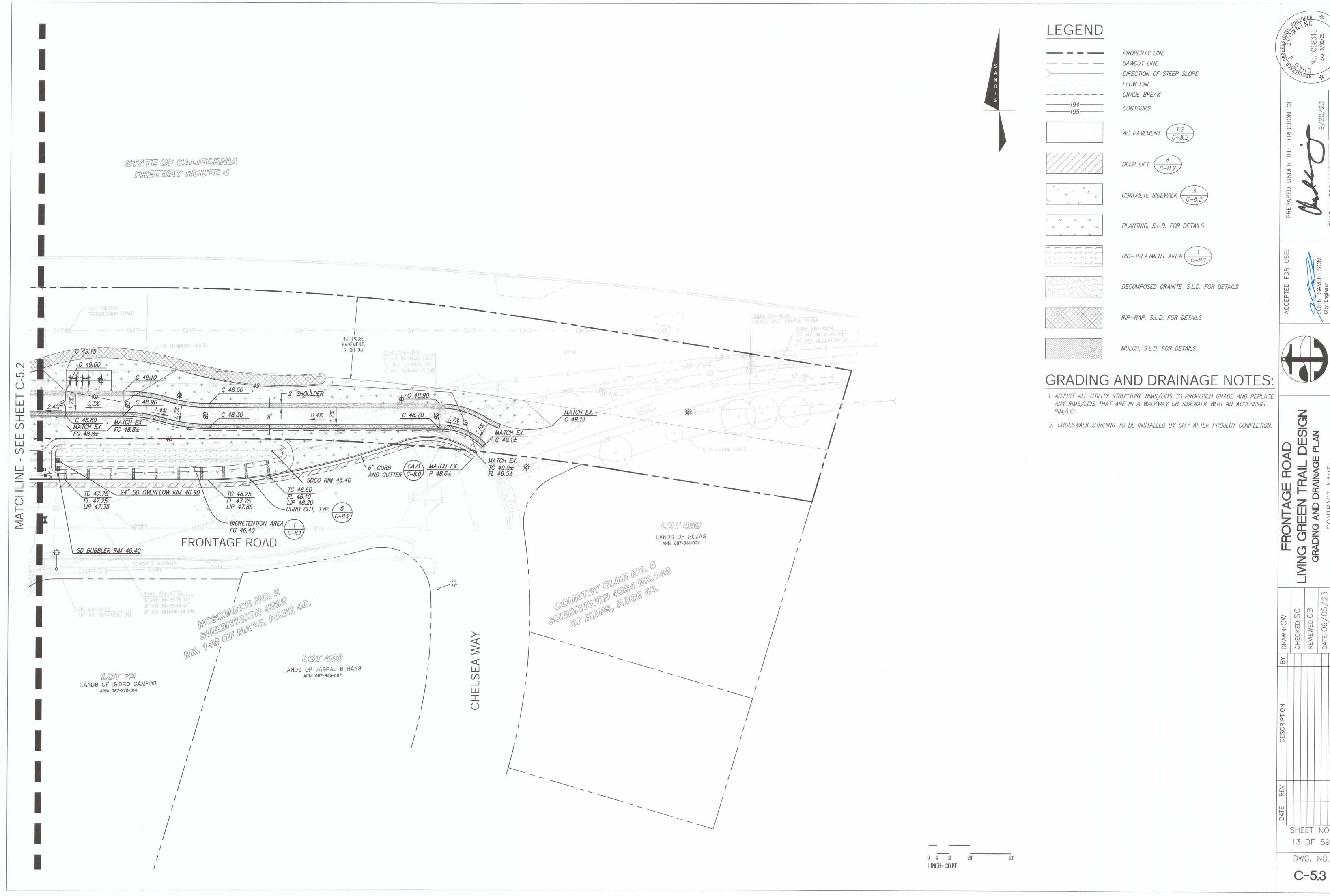




SHEET NO. 12 OF 59

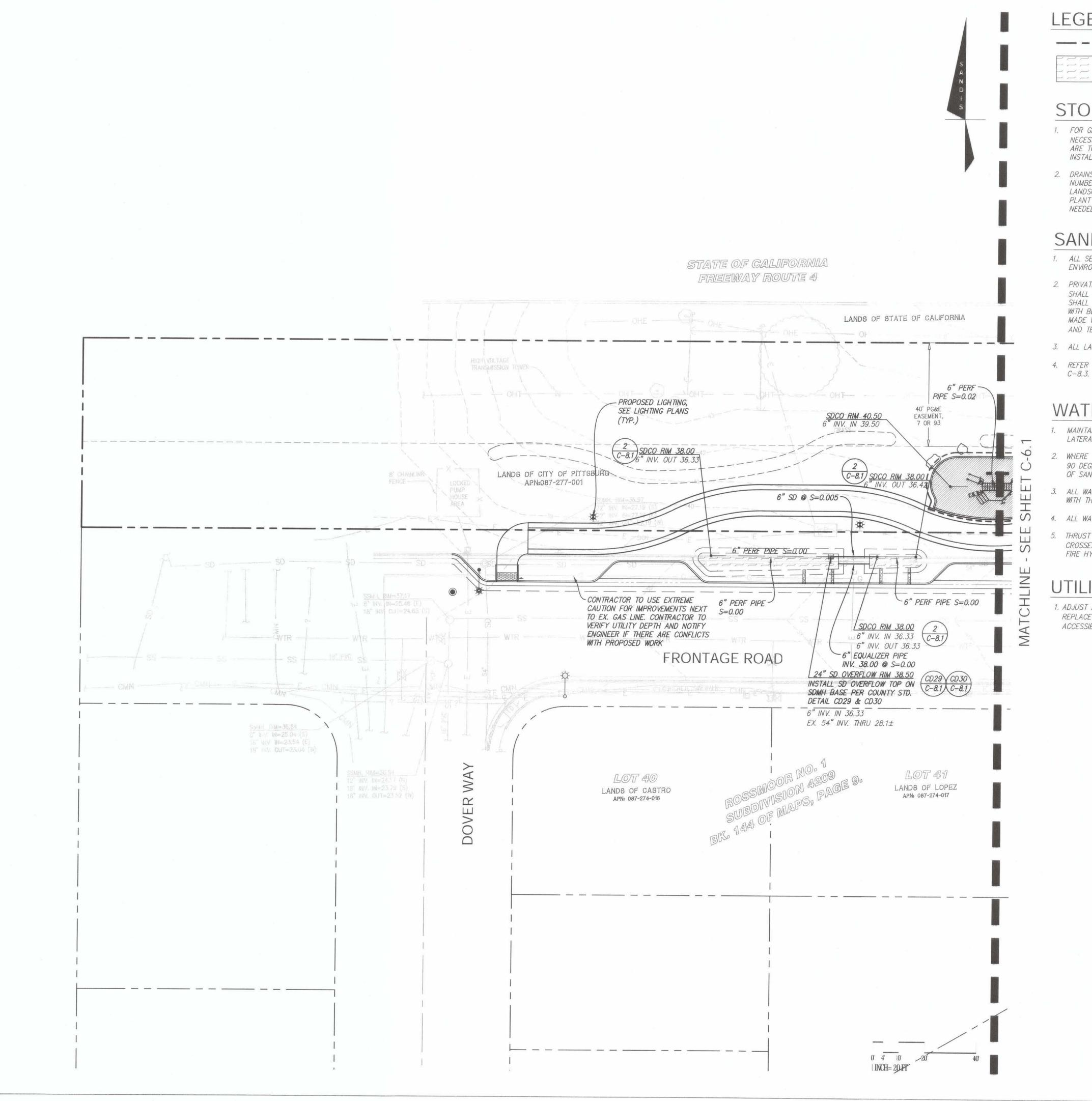
DWG. NO.

C-5.2



SHEET NO. 13 OF 59

DWG. NO.



PROPERTY LINE



BIO-TREATMENT AREA



STORM DRAIN NOTES

- 1. FOR GRAVITY FLOW SYSTEMS CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY) SIZE, MATERIAL, LOCATION AND DEPTH OF ALL SYSTEMS THAT ARE TO BE CONNECTED TO OR CROSSED PRIOR TO THE TRENCHING OR INSTALLATION OF ANY GRAVITY FLOW SYSTEM.
- 2. DRAINS SHOWN ON CIVIL PLANS ARE NOT INTENDED TO BE THE FINAL NUMBER AND LOCATION OF ALL DRAINS. PLACEMENT AND NUMBER OF LANDSCAPING DRAINS ARE HIGHLY DEPENDENT ON GROUND COVER TYPE AND PLANT MATERIAL. CONTRACTOR SHALL ADD ADDITIONAL AREA DRAINS AS NEEDED AND AS DIRECTED BY THE LANDSCAPE ARCHITECT.

SANITARY SEWER NOTES

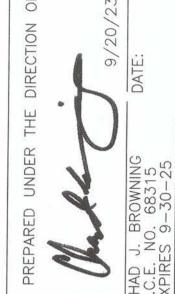
- 1. ALL SEWER WORK SHALL BE IN CONFORMANCE WITH THE COUNTY ENVIRONMENTAL HEALTH DEPARTMENT STANDARDS.
- 2. PRIVATE SANITARY SEWER MAIN AND SERVICE LINE 4-INCH THROUGH 8-INCH SHALL BE POLYVINYL CHLORIDE (PVC) SDR 26 GREEN SEWER PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 3034-73 WITH BELL AND SPIGOT CONNECTIONS. ALL DIRECTION CHANGES SHALL BE MADE WITH WYE CONNECTIONS, 22.5° ELBOWS OR 45°. ELBOWS. 90° ELBOWS AND TEE'S ARE PROHIBITED.
- 3. ALL LATERALS SHALL HAVE A TWO WAY CLEANOUT AS SHOWN ON PLANS.
- 4. REFER TO CITY SANITARY SEWER DETAILS/NOTES S-1 AND S-2 ON SHEET C-8.3.

WATER SYSTEM NOTES

- 1. MAINTAIN WATER MAIN LINES 10' AWAY FROM SANITARY SEWER MAIN LINES. LATERALS SHALL BE SEPARATED PER PLAN DIMENSIONS.
- WHERE WATER LINES HAVE TO CROSS SANITARY SEWER LINES, DO SO AT A 90 DEGREE ANGLE AND WATER LINES SHALL BE MINIMUM OF 12" ABOVE TOP OF SANITARY SEWER LINES.
- 3. ALL WATER SERVICE CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE WATER DISTRICT STANDARDS.
- 4. ALL WATER LINES SHALL BE INSTALLED WITH 36" MINIMUM COVER.
- 5. THRUST RESTRAINTS SHALL BE DESIGNED AND INSTALLED AT ALL TEES, CROSSES, BENDS (HORIZONTAL AND VERTICAL), AT SIZE CHANGES AND AT FIRE HYDRANTS.

UTILITY NOTES

1. ADJUST ALL UTILITY STRUCTURE RIMS/LIDS TO PROPOSED GRADE AND REPLACE ANY RIMS/LIDS THAT ARE IN A WALKWAY OR SIDEWALK WITH AN ACCESSIBLE RIM/LID.

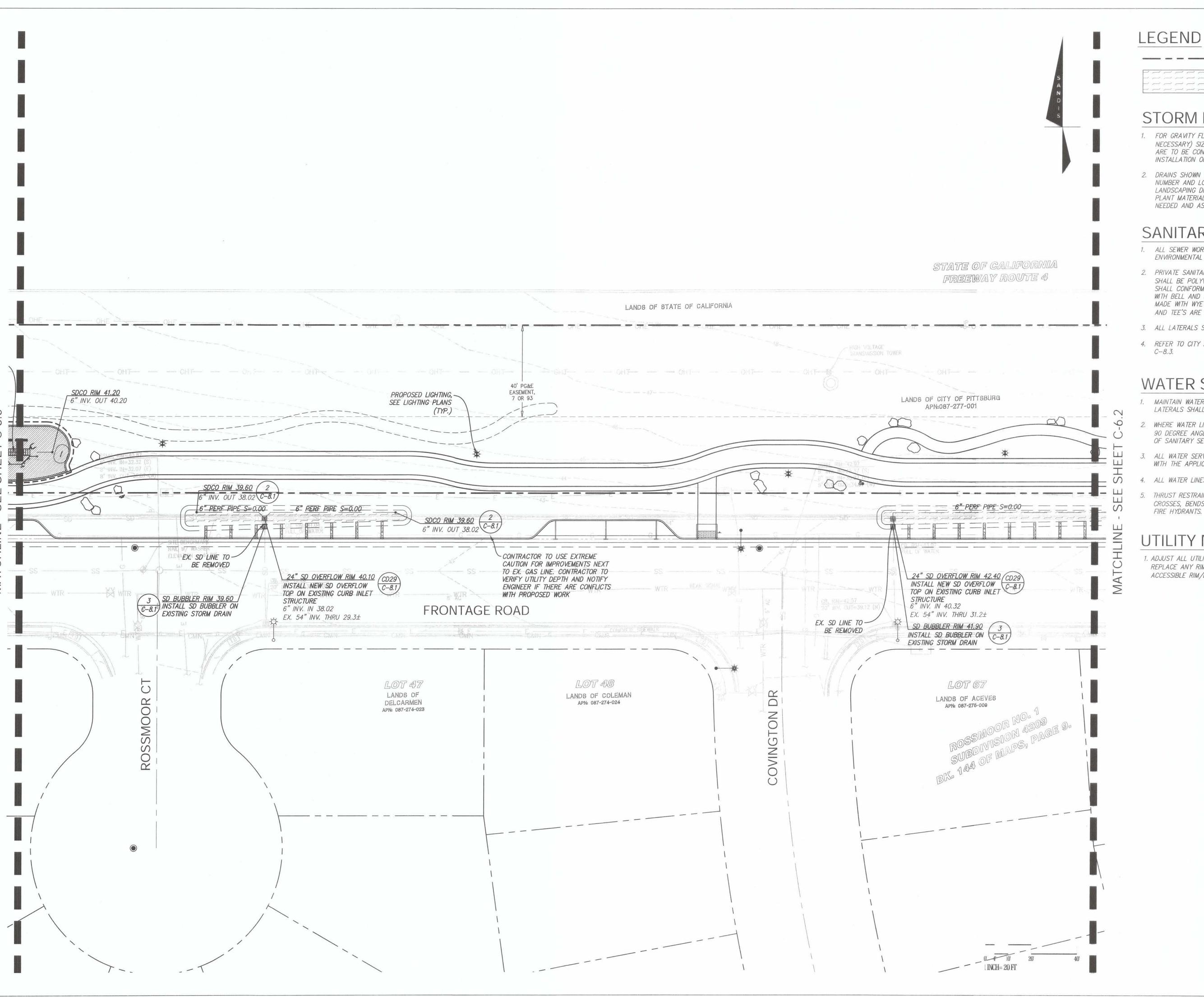


SHEET NO.

14 OF 59

C-6.0

DWG. NO.



PROPERTY LINE



BIO-TREATMENT AREA

STORM DRAIN NOTES

- 1. FOR GRAVITY FLOW SYSTEMS CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY) SIZE, MATERIAL, LOCATION AND DEPTH OF ALL SYSTEMS THAT ARE TO BE CONNECTED TO OR CROSSED PRIOR TO THE TRENCHING OR INSTALLATION OF ANY GRAVITY FLOW SYSTEM.
- 2. DRAINS SHOWN ON CIVIL PLANS ARE NOT INTENDED TO BE THE FINAL NUMBER AND LOCATION OF ALL DRAINS. PLACEMENT AND NUMBER OF LANDSCAPING DRAINS ARE HIGHLY DEPENDENT ON GROUND COVER TYPE AND PLANT MATERIAL. CONTRACTOR SHALL ADD ADDITIONAL AREA DRAINS AS NEEDED AND AS DIRECTED BY THE LANDSCAPE ARCHITECT.

SANITARY SEWER NOTES

- 1. ALL SEWER WORK SHALL BE IN CONFORMANCE WITH THE COUNTY ENVIRONMENTAL HEALTH DEPARTMENT STANDARDS.
- 2. PRIVATE SANITARY SEWER MAIN AND SERVICE LINE 4-INCH THROUGH 8-INCH SHALL BE POLYVINYL CHLORIDE (PVC) SDR 26 GREEN SEWER PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 3034-73 WITH BELL AND SPIGOT CONNECTIONS. ALL DIRECTION CHANGES SHALL BE MADE WITH WYE CONNECTIONS, 22.5° ELBOWS OR 45°. ELBOWS, 90° ELBOWS AND TEE'S ARE PROHIBITED.
- 3. ALL LATERALS SHALL HAVE A TWO WAY CLEANOUT AS SHOWN ON PLANS.
- 4. REFER TO CITY SANITARY SEWER DETAILS/NOTES S-1 AND S-2 ON SHEET

WATER SYSTEM NOTES

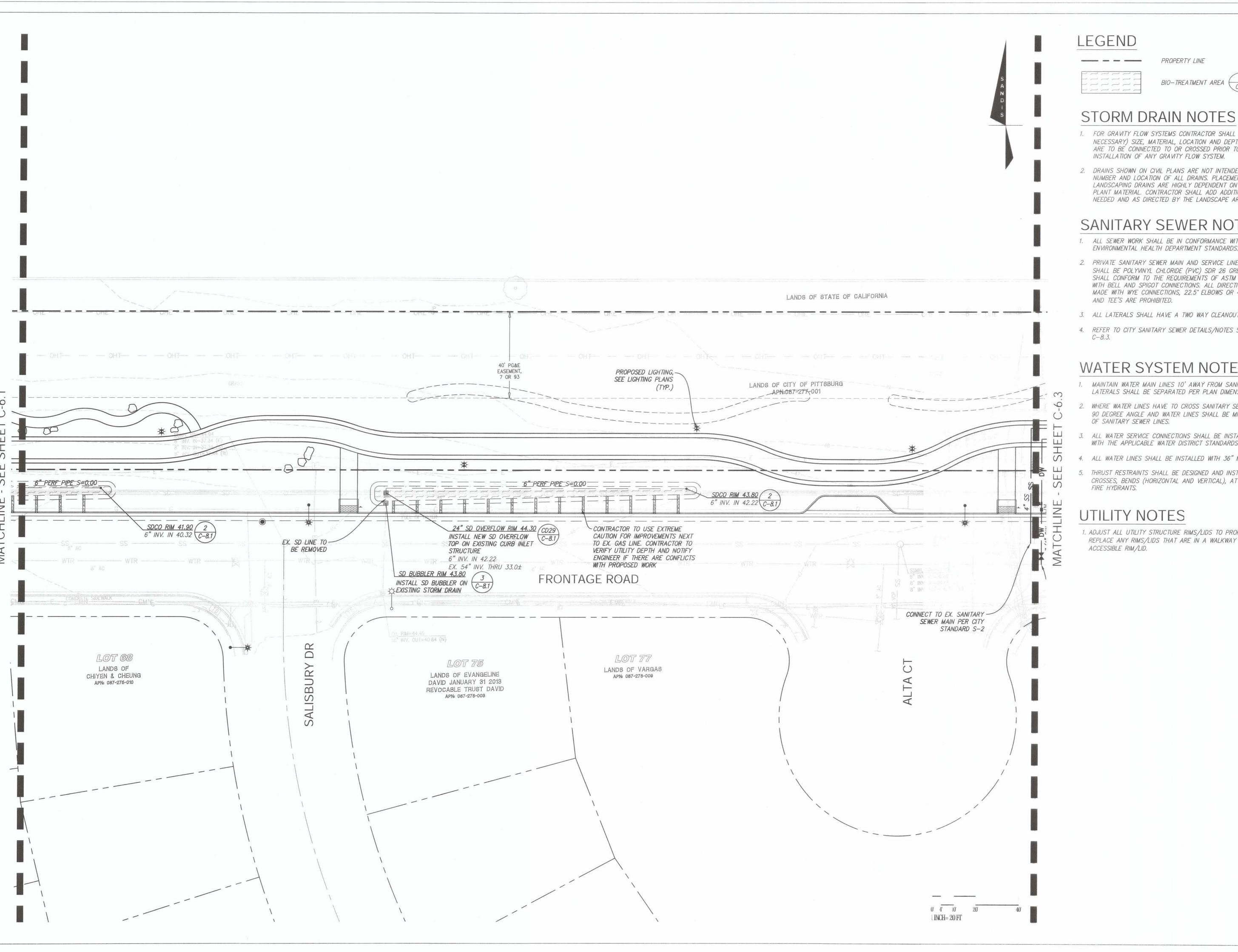
- 1. MAINTAIN WATER MAIN LINES 10' AWAY FROM SANITARY SEWER MAIN LINES. LATERALS SHALL BE SEPARATED PER PLAN DIMENSIONS.
- WHERE WATER LINES HAVE TO CROSS SANITARY SEWER LINES, DO SO AT A 90 DEGREE ANGLE AND WATER LINES SHALL BE MINIMUM OF 12" ABOVE TOP OF SANITARY SEWER LINES.
- ALL WATER SERVICE CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE WATER DISTRICT STANDARDS.
- 4. ALL WATER LINES SHALL BE INSTALLED WITH 36" MINIMUM COVER.
- 5. THRUST RESTRAINTS SHALL BE DESIGNED AND INSTALLED AT ALL TEES, CROSSES, BENDS (HORIZONTAL AND VERTICAL), AT SIZE CHANGES AND AT FIRE HYDRANTS.

1. ADJUST ALL UTILITY STRUCTURE RIMS/LIDS TO PROPOSED GRADE AND REPLACE ANY RIMS/LIDS THAT ARE IN A WALKWAY OR SIDEWALK WITH AN ACCESSIBLE RIM/LID.

SHEET NO.

15 OF 59 DWG. NO.

C-6.1



PROPERTY LINE



BIO-TREATMENT AREA (

1. FOR GRAVITY FLOW SYSTEMS CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY) SIZE, MATERIAL, LOCATION AND DEPTH OF ALL SYSTEMS THAT ARE TO BE CONNECTED TO OR CROSSED PRIOR TO THE TRENCHING OR INSTALLATION OF ANY GRAVITY FLOW SYSTEM.

DRAINS SHOWN ON CIVIL PLANS ARE NOT INTENDED TO BE THE FINAL NUMBER AND LOCATION OF ALL DRAINS. PLACEMENT AND NUMBER OF LANDSCAPING DRAINS ARE HIGHLY DEPENDENT ON GROUND COVER TYPE AND PLANT MATERIAL. CONTRACTOR SHALL ADD ADDITIONAL AREA DRAINS AS NEEDED AND AS DIRECTED BY THE LANDSCAPE ARCHITECT.

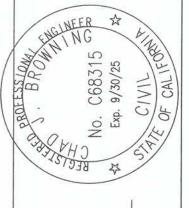
SANITARY SEWER NOTES

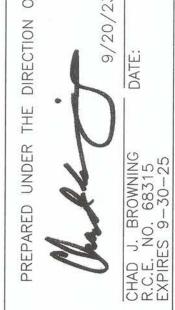
- 1. ALL SEWER WORK SHALL BE IN CONFORMANCE WITH THE COUNTY ENVIRONMENTAL HEALTH DEPARTMENT STANDARDS.
- 2. PRIVATE SANITARY SEWER MAIN AND SERVICE LINE 4-INCH THROUGH 8-INCH SHALL BE POLYVINYL CHLORIDE (PVC) SDR 26 GREEN SEWER PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 3034-73 WITH BELL AND SPIGOT CONNECTIONS. ALL DIRECTION CHANGES SHALL BE MADE WITH WYE CONNECTIONS, 22.5° ELBOWS OR 45°. ELBOWS, 90° ELBOWS AND TEE'S ARE PROHIBITED.
- 3. ALL LATERALS SHALL HAVE A TWO WAY CLEANOUT AS SHOWN ON PLANS.
- 4. REFER TO CITY SANITARY SEWER DETAILS/NOTES S-1 AND S-2 ON SHEET

WATER SYSTEM NOTES

- 1. MAINTAIN WATER MAIN LINES 10' AWAY FROM SANITARY SEWER MAIN LINES. LATERALS SHALL BE SEPARATED PER PLAN DIMENSIONS.
- WHERE WATER LINES HAVE TO CROSS SANITARY SEWER LINES, DO SO AT A 90 DEGREE ANGLE AND WATER LINES SHALL BE MINIMUM OF 12" ABOVE TOP OF SANITARY SEWER LINES.
- 3. ALL WATER SERVICE CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE WATER DISTRICT STANDARDS.
- 4. ALL WATER LINES SHALL BE INSTALLED WITH 36" MINIMUM COVER.
- 5. THRUST RESTRAINTS SHALL BE DESIGNED AND INSTALLED AT ALL TEES, CROSSES, BENDS (HORIZONTAL AND VERTICAL), AT SIZE CHANGES AND AT FIRE HYDRANTS.

1. ADJUST ALL UTILITY STRUCTURE RIMS/LIDS TO PROPOSED GRADE AND REPLACE ANY RIMS/LIDS THAT ARE IN A WALKWAY OR SIDEWALK WITH AN ACCESSIBLE RIM/LID.





SHEET NO. 16 OF 59

DWG. NO. C-6.2



PROPERTY LINE



BIO-TREATMENT AREA (



STORM DRAIN NOTES

- 1. FOR GRAVITY FLOW SYSTEMS CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY) SIZE, MATERIAL, LOCATION AND DEPTH OF ALL SYSTEMS THAT ARE TO BE CONNECTED TO OR CROSSED PRIOR TO THE TRENCHING OR INSTALLATION OF ANY GRAVITY FLOW SYSTEM.
- 2. DRAINS SHOWN ON CIVIL PLANS ARE NOT INTENDED TO BE THE FINAL NUMBER AND LOCATION OF ALL DRAINS. PLACEMENT AND NUMBER OF LANDSCAPING DRAINS ARE HIGHLY DEPENDENT ON GROUND COVER TYPE AND PLANT MATERIAL. CONTRACTOR SHALL ADD ADDITIONAL AREA DRAINS AS NEEDED AND AS DIRECTED BY THE LANDSCAPE ARCHITECT.

SANITARY SEWER NOTES

- 1. ALL SEWER WORK SHALL BE IN CONFORMANCE WITH THE COUNTY ENVIRONMENTAL HEALTH DEPARTMENT STANDARDS.
- 2. PRIVATE SANITARY SEWER MAIN AND SERVICE LINE 4-INCH THROUGH 8-INCH SHALL BE POLYVINYL CHLORIDE (PVC) SDR 26 GREEN SEWER PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 3034-73 WITH BELL AND SPIGOT CONNECTIONS. ALL DIRECTION CHANGES SHALL BE MADE WITH WYE CONNECTIONS, 22.5° ELBOWS OR 45°. ELBOWS, 90° ELBOWS AND TEE'S ARE PROHIBITED.
- 3. ALL LATERALS SHALL HAVE A TWO WAY CLEANOUT AS SHOWN ON PLANS.
- 4. REFER TO CITY SANITARY SEWER DETAILS/NOTES S-1 AND S-2 ON SHEET C-8.3.

WATER SYSTEM NOTES

- 1. MAINTAIN WATER MAIN LINES 10' AWAY FROM SANITARY SEWER MAIN LINES. LATERALS SHALL BE SEPARATED PER PLAN DIMENSIONS.
- 2. WHERE WATER LINES HAVE TO CROSS SANITARY SEWER LINES, DO SO AT A 90 DEGREE ANGLE AND WATER LINES SHALL BE MINIMUM OF 12" ABOVE TOP OF SANITARY SEWER LINES.
- 3. ALL WATER SERVICE CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE WATER DISTRICT STANDARDS.
- 4. ALL WATER LINES SHALL BE INSTALLED WITH 36" MINIMUM COVER.
- 5. THRUST RESTRAINTS SHALL BE DESIGNED AND INSTALLED AT ALL TEES, CROSSES, BENDS (HORIZONTAL AND VERTICAL), AT SIZE CHANGES AND AT FIRE HYDRANTS.

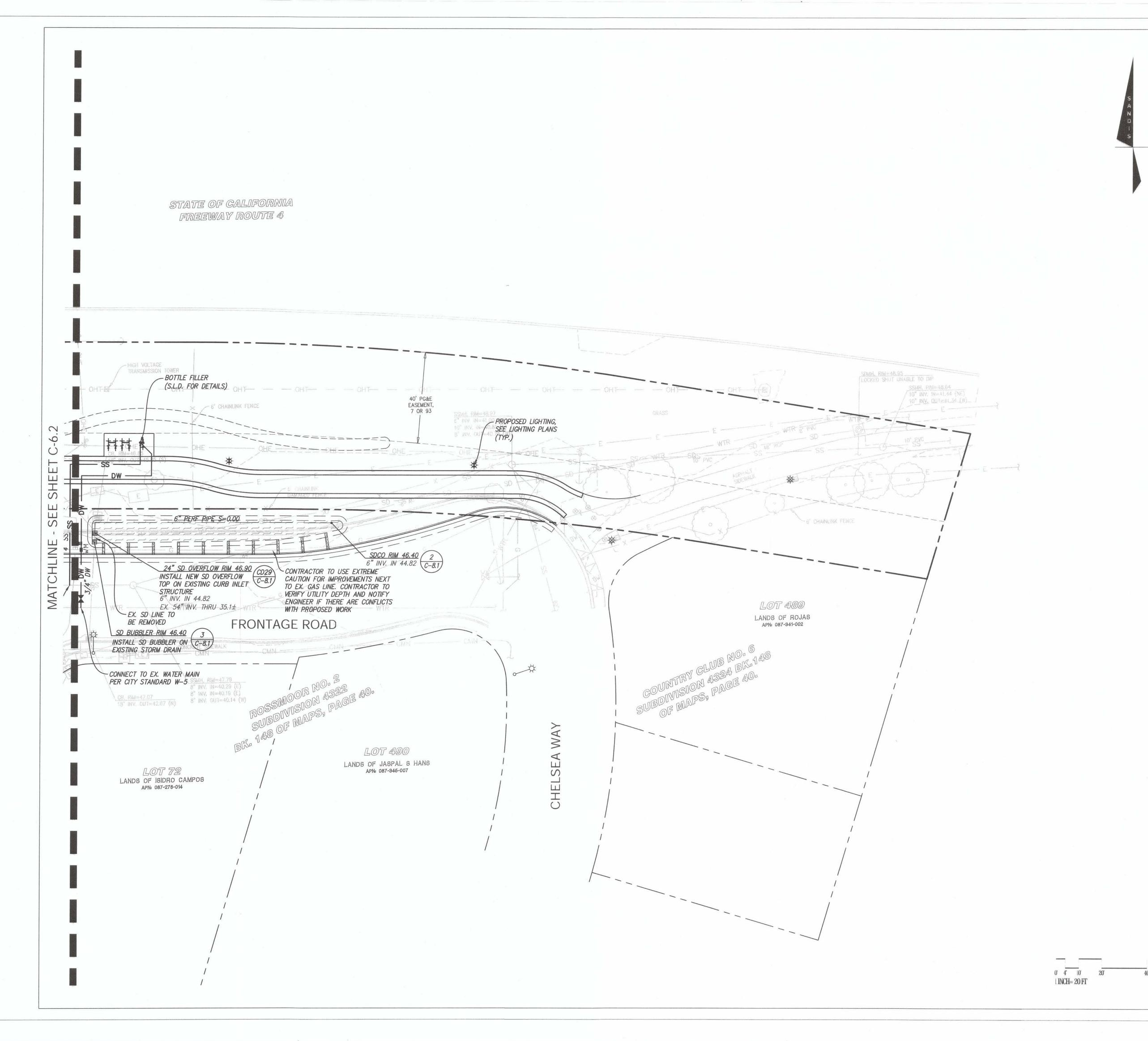
UTILITY NOTES

1. ADJUST ALL UTILITY STRUCTURE RIMS/LIDS TO PROPOSED GRADE AND REPLACE ANY RIMS/LIDS THAT ARE IN A WALKWAY OR SIDEWALK WITH AN ACCESSIBLE RIM/LID.



SHEET NO. 17 OF 59 DWG. NO.

C-6.3



PROPERTY LINE



BIO-TREATMENT AREA $\frac{1}{C-8.1}$



STORM DRAIN NOTES

- 1. FOR GRAVITY FLOW SYSTEMS CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY) SIZE, MATERIAL, LOCATION AND DEPTH OF ALL SYSTEMS THAT ARE TO BE CONNECTED TO OR CROSSED PRIOR TO THE TRENCHING OR INSTALLATION OF ANY GRAVITY FLOW SYSTEM.
- 2. DRAINS SHOWN ON CIVIL PLANS ARE NOT INTENDED TO BE THE FINAL NUMBER AND LOCATION OF ALL DRAINS. PLACEMENT AND NUMBER OF LANDSCAPING DRAINS ARE HIGHLY DEPENDENT ON GROUND COVER TYPE AND PLANT MATERIAL. CONTRACTOR SHALL ADD ADDITIONAL AREA DRAINS AS NEEDED AND AS DIRECTED BY THE LANDSCAPE ARCHITECT.

SANITARY SEWER NOTES

- 1. ALL SEWER WORK SHALL BE IN CONFORMANCE WITH THE COUNTY ENVIRONMENTAL HEALTH DEPARTMENT STANDARDS.
- 2. PRIVATE SANITARY SEWER MAIN AND SERVICE LINE 4-INCH THROUGH 8-INCH SHALL BE POLYVINYL CHLORIDE (PVC) SDR 26 GREEN SEWER PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 3034-73 WITH BELL AND SPIGOT CONNECTIONS. ALL DIRECTION CHANGES SHALL BE MADE WITH WYE CONNECTIONS, 22.5' ELBOWS OR 45'. ELBOWS, 90' ELBOWS AND TEE'S ARE PROHIBITED.
- 3. ALL LATERALS SHALL HAVE A TWO WAY CLEANOUT AS SHOWN ON PLANS.
- 4. REFER TO CITY SANITARY SEWER DETAILS/NOTES S-1 AND S-2 ON SHEET C-8.3.

WATER SYSTEM NOTES

- 1. MAINTAIN WATER MAIN LINES 10' AWAY FROM SANITARY SEWER MAIN LINES. LATERALS SHALL BE SEPARATED PER PLAN DIMENSIONS.
- 2. WHERE WATER LINES HAVE TO CROSS SANITARY SEWER LINES, DO SO AT A 90 DEGREE ANGLE AND WATER LINES SHALL BE MINIMUM OF 12" ABOVE TOP OF SANITARY SEWER LINES.
- 3. ALL WATER SERVICE CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE WATER DISTRICT STANDARDS.
- 4. ALL WATER LINES SHALL BE INSTALLED WITH 36" MINIMUM COVER.
- 5. THRUST RESTRAINTS SHALL BE DESIGNED AND INSTALLED AT ALL TEES, CROSSES, BENDS (HORIZONTAL AND VERTICAL), AT SIZE CHANGES AND AT FIRE HYDRANTS.

UTILITY NOTES

1. ADJUST ALL UTILITY STRUCTURE RIMS/LIDS TO PROPOSED GRADE AND REPLACE ANY RIMS/LIDS THAT ARE IN A WALKWAY OR SIDEWALK WITH AN ACCESSIBLE RIM/LID.



SHEET NO. 17 OF 59

DWG. NO.

C-6.3

STORMWATER MANAGEMENT PLAN LEGEND

PROPOSED PERVIOUS AREA

PROPOSED IMPERVIOUS AREA

EXISTING IMPERVIOUS AREA DIRECTED TO STORMWATER TREATMENT

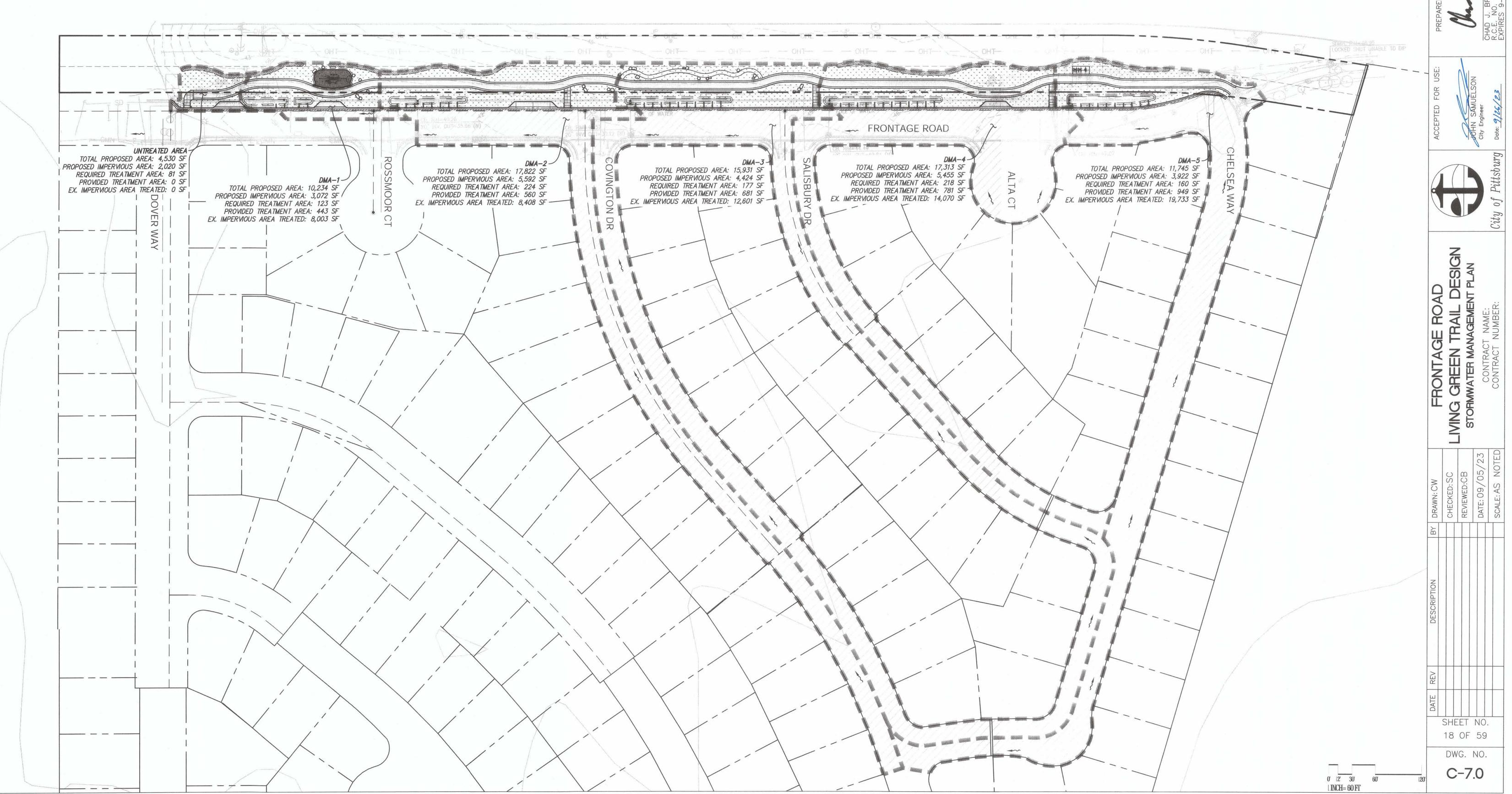
BIO-RETENTION AREA

DRAINAGE AREA BOUNDARY
FLOW LINE
FLOW DIRECTION

STORMWATER MANAGEMENT NOTES:

- 1. THIS PLAN PRESENTS METHODS AND CALCULATIONS FOR COMPLYING WITH THE REQUIREMENTS OF PROVISION C.3 OF THE MUNICIPAL REGIONAL STORMWATER PERMIT IN ACCORDANCE WITH THE CONTRA COSTA COUNTY PROGRAM AND THE C.3 REQUIREMENTS.
- 2. THE FOLLOWING TREATMENT MEASURES ARE PROPOSED TO REGULATE THE QUALITY OF STORM WATER LEAVING THE SITE
- 2.1. SELF—TREATING AREA RUNOFF IN THIS AREA ORIGINATES IN AND FLOWS THROUGH PLANTING PRIOR TO EXITING THE PROJECT SITE, NO TREATMENT IS REQUIRED
- 2.2. BIO-RETENTION AREA RUNOFF IN THIS AREA IS DIRECTED TO A BIO-RETENTION PLANTER/AREA FOR FILTRATION, INFILTRATION AND EVAPOTRANSPIRATION PRIOR TO EXISTING THE SITE. PLANTING AND SOIL REQUIREMENTS APPLY, SEE DETAIL

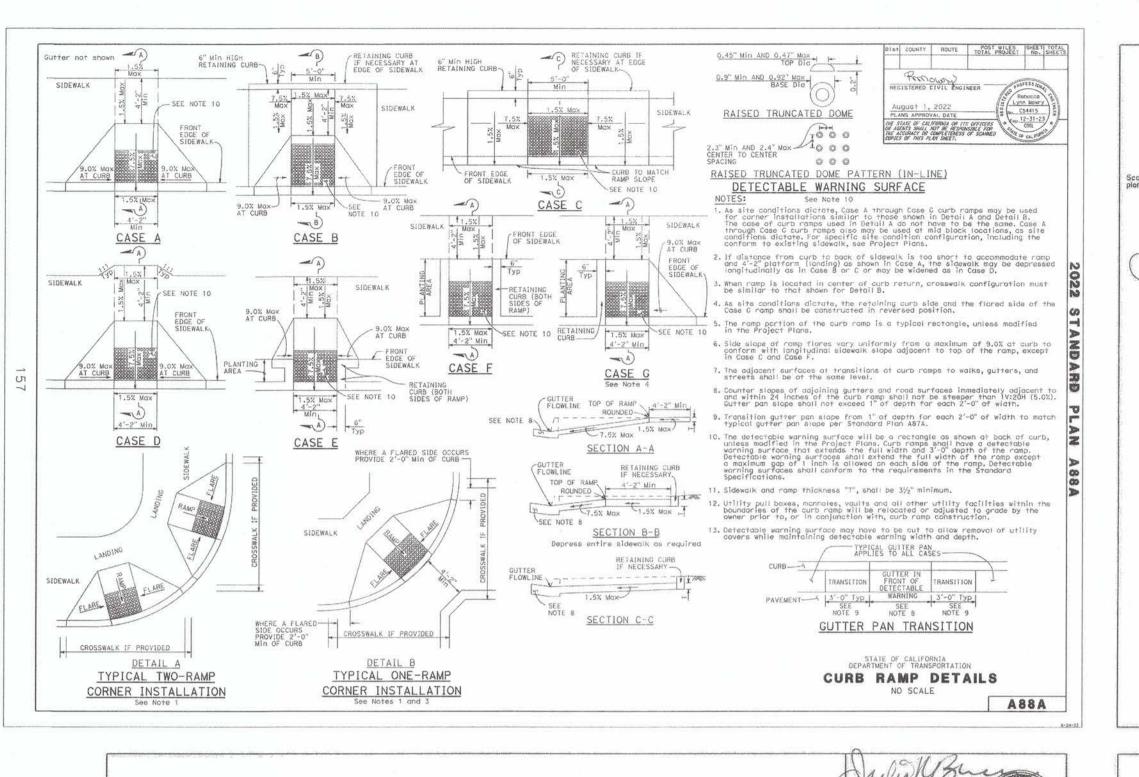
Drainage Area	TOTAL AREA		IMPERVIOUS AREA		EX. IMPERVIOUS AREA		PERVIOUS AREA		Percent	Runoff Coefficient,	Intensity, i	O (ofc)	Treatment Area	Treatment Area
	sq. ft.	Ac.	sq. ft.	Ac.	sq. ft.	Ac.	sq. ft.	Ac.	Impervious	. с	(Uniform Intensity)	Q (cfs)	Required	provided
1	10,234	0.23	3,072	0.07	8,003	0.18	7,162	0.16	30.0%	0.480	0.2	0.02	123	443
2	17,822	0.41	5,592	0.13	8,408	0.19	12,230	0.28	31.4%	0.488	0.2	0.04	224	560
3	15,931	0.37	4,424	0.10	12,601	0.29	11,507	0.26	27.8%	0.467	0.2	0.03	177	681
4	17,313	0.40	5,455	0.13	14,070	0.32	11,858	0.27	31.5%	0.489	0.2	0.04	218	781
5	11,745	0.27	3,992	0.09	19,733	0.45	7,753	0.18	34.0%	0.504	0.2	0.03	160	949

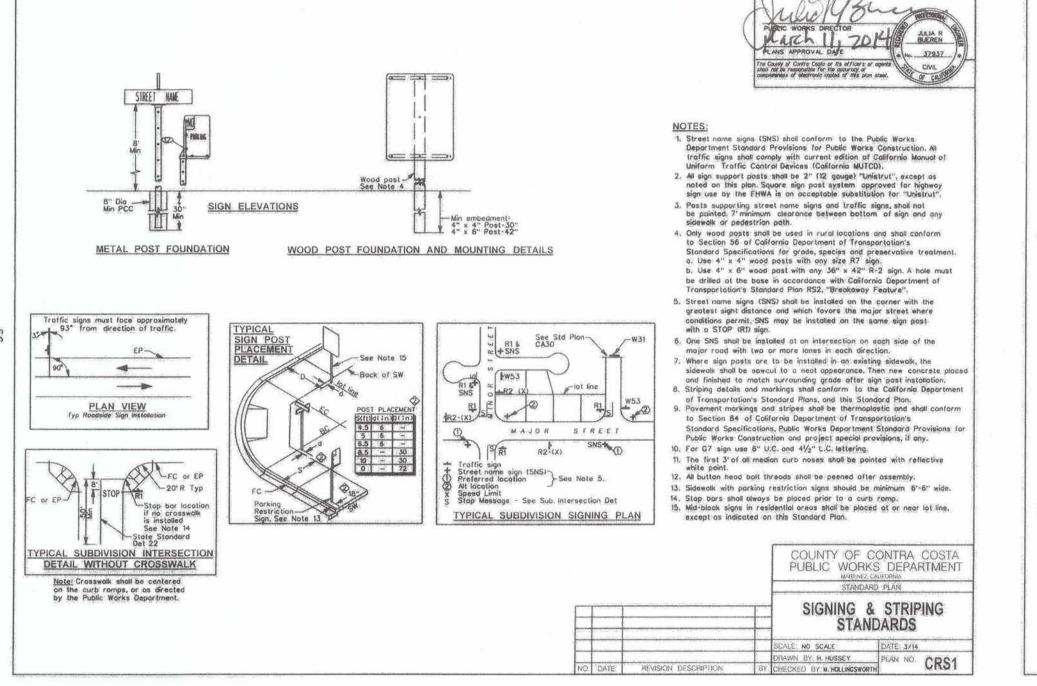


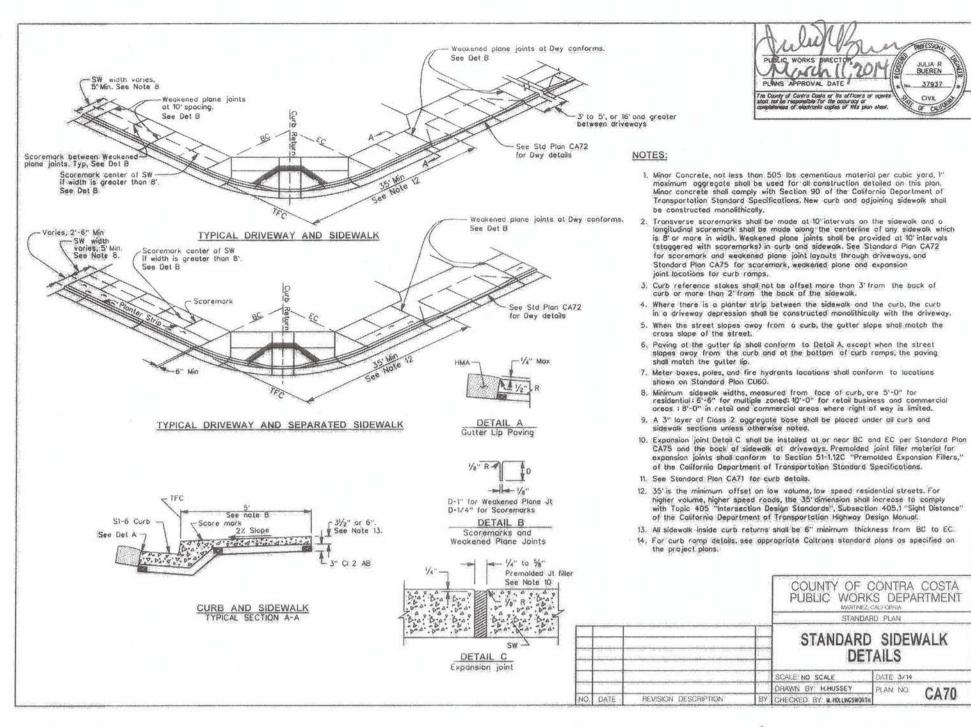


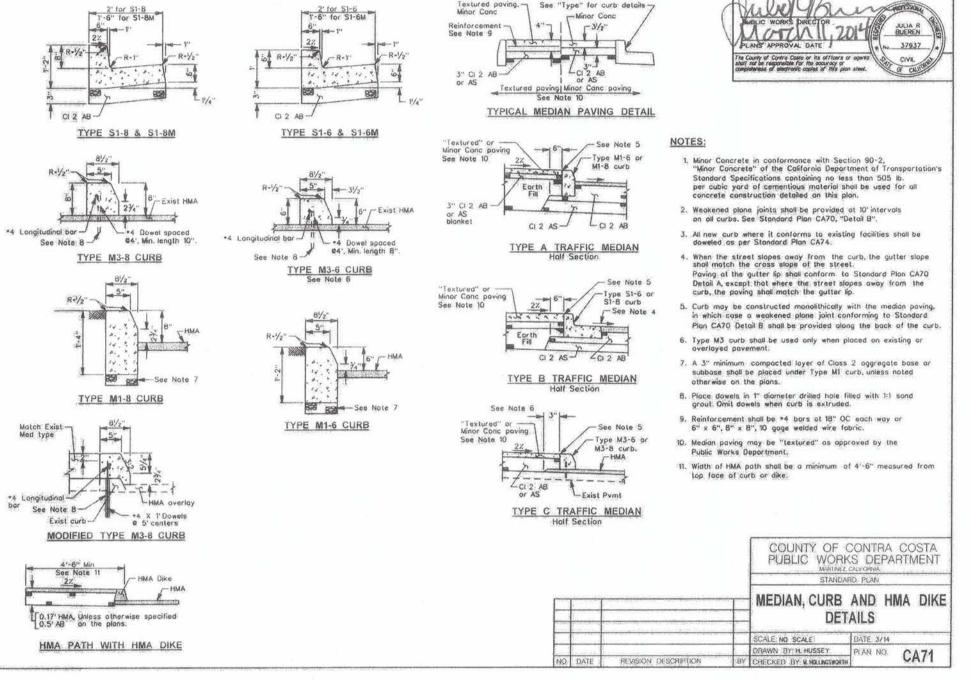
9/20/23 JG DATE:

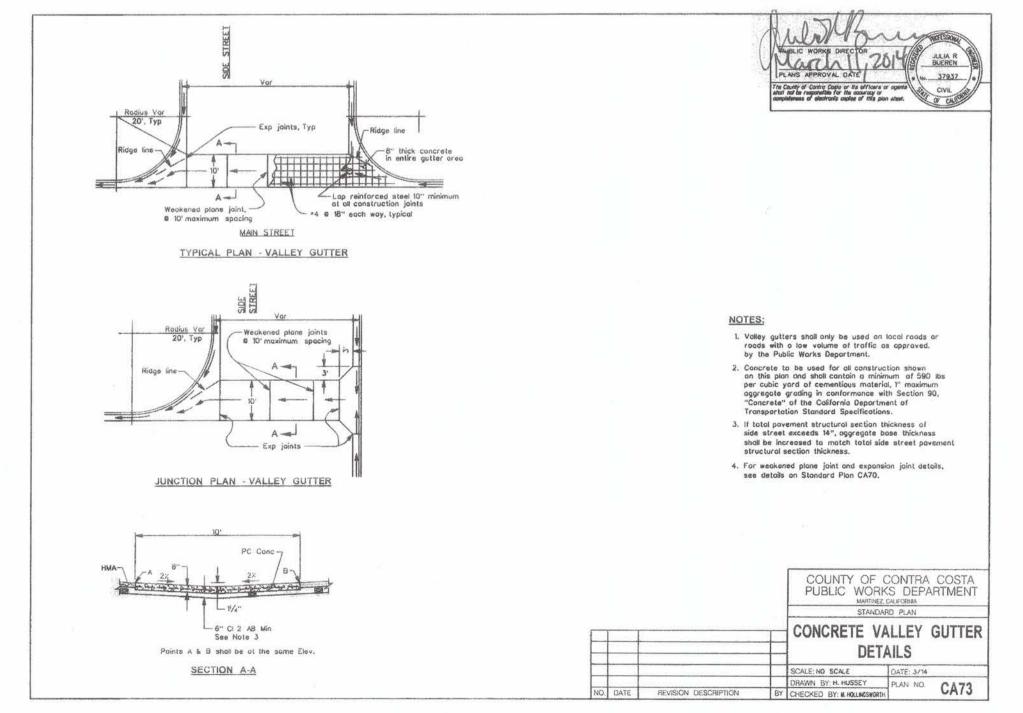
CHAD J. BROWNING DAT











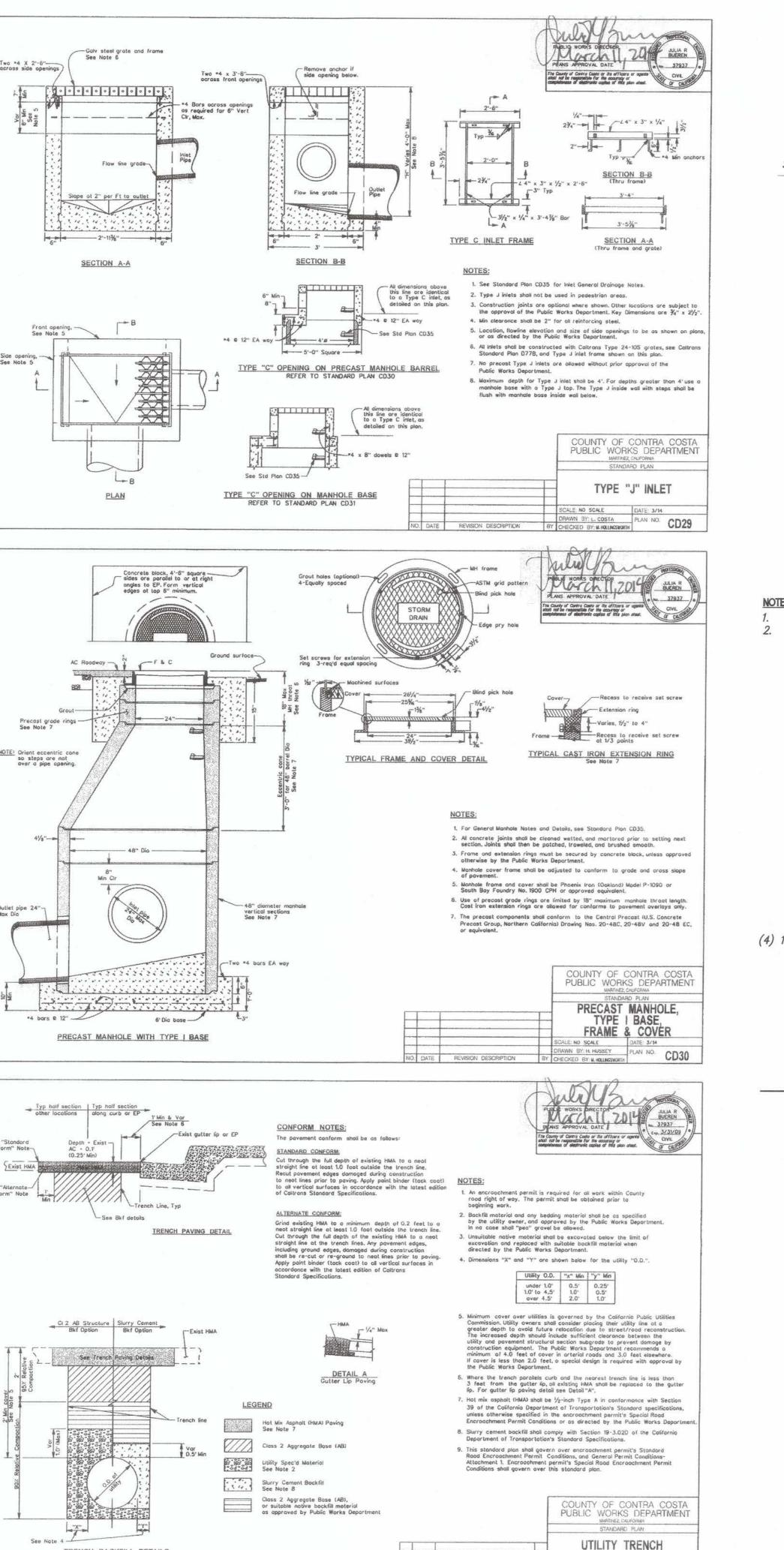


SHEET NO.

19 OF 59

DWG. NO.

C-8.0



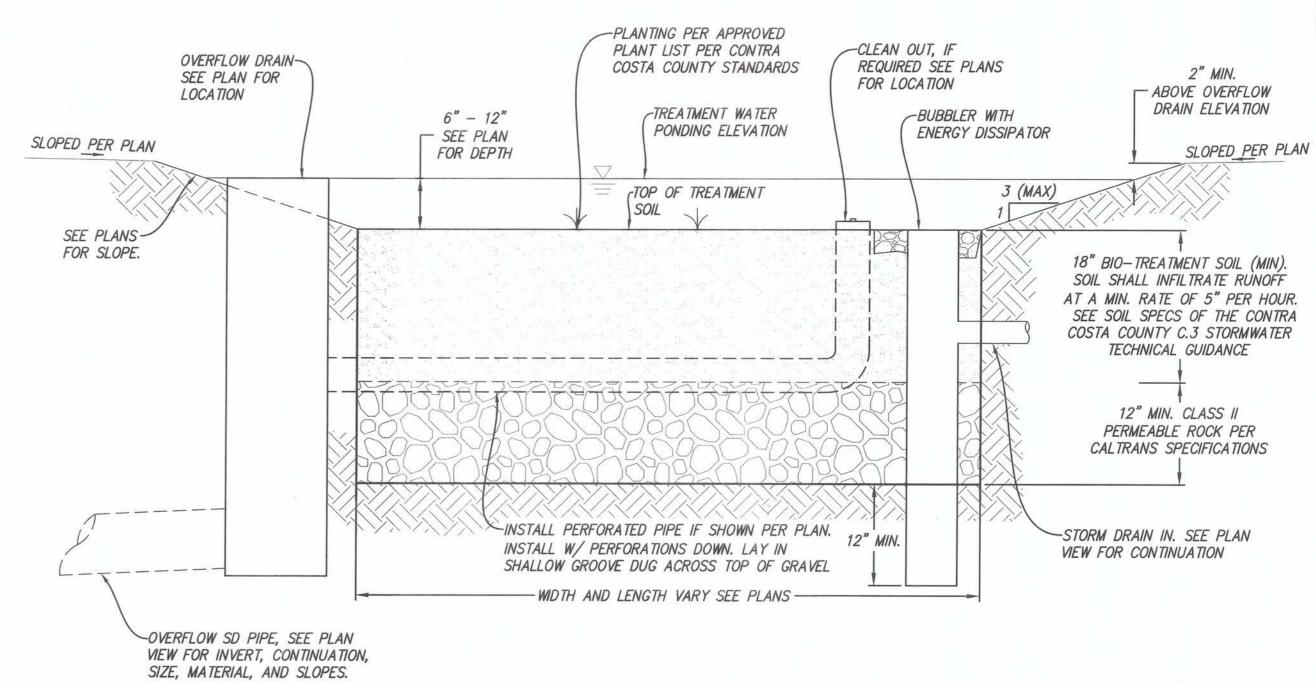
CUT DETAILS

SCALE:NO SCALE DATE: 3/14

DRAWN BY: H. HUSSEY
BY CHECKED BY:N HOLINGSHORTH

CU01

TRENCH BACKFILL DETAILS
TYPICAL HALF SECTIONS



1. BIO-RETENTION AREA SHALL BE THE MINIMUM SIZE SHOWN ON PLANS. 2. INSTALL AND MAINTAIN MULCH LAYER ABOVE THE TREATMENT SOIL PER CONTRA COSTA COUNTY REQUIREMENTS.

BIORETENTION AREA

3'-0" OF RIP RAP PER PLAN -SURROUNDING STRUCTURE MIRAFI 140N STRUCTURE AND GRATE. FILTER FABRIC SEE DETAIL 2 & 3, SHEET C-7.0 VARIES. SEE PLAN FOR SEE PLAN FOR HEIGHT INCOMING PIPE SIZE AND SLOPE (4) 1" DIA. DRAIN HOLES -FLOW 1'-0" CLASS 2 PERMEABLE MATERIAL

BUBBLE UP BOX

- CONCRETE CLEANOUT BOX - PLASTIC CLEANOUT BOX WITH "SEWER" OR "STORM" WITH "SEWER" OR "STORM" CAST IN LID, PER PLAN. CAST IN LID, PER PLAN. CHRISTY GOS OR APPROVED NDS 112B OR APPROVED EQUIVALENT. EQUIVALENT. SEE PLAN FOR PLASTIC PLUG WITH RIM AND INVERT CLEANOUT FITTING **ELEVATIONS** 6" CLASS II A.B. HAND TAMP ----6" CLASS II A.B. 95% REL. COMPACTION SUBJECT TO MOWING **GENERAL** OR PEDESTRIAN TRAFFIC LANDSCAPE AREA

45° ELBOW -SEE PLAN FOR PIPE SIZE —— THRU DRAIN CONNECTION

-(2) 45° ELBOW SEE PLAN FOR PIPE SIZE ---OUT DRAIN CONNECTION

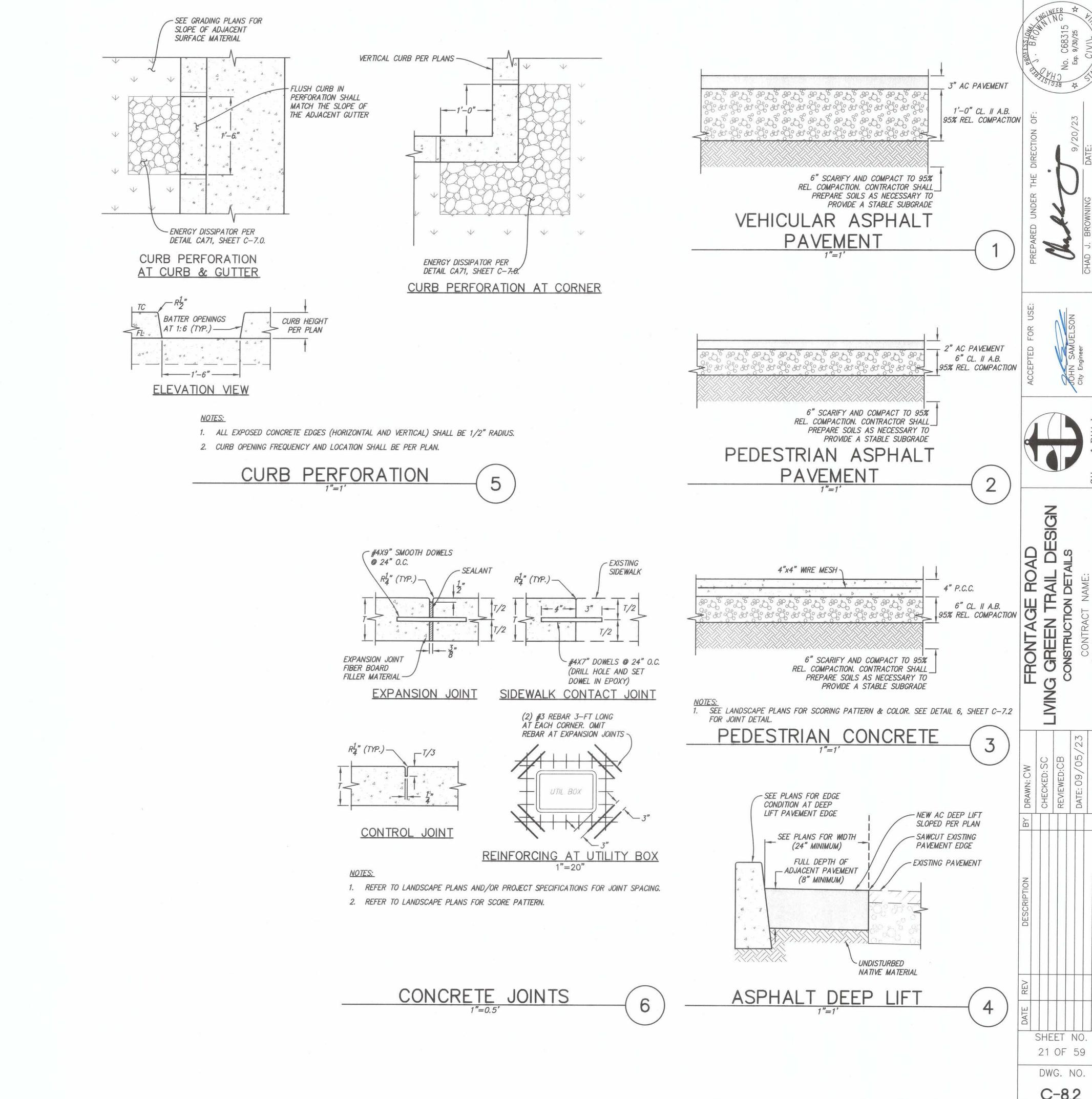
1. RISER DIAMETER SHALL MATCH THRU/OUT PIPE SIZE.

GRAVITY CLEANOUT

C-8.1

SHEET NO.

20 OF 59 DWG. NO.



C-8.2

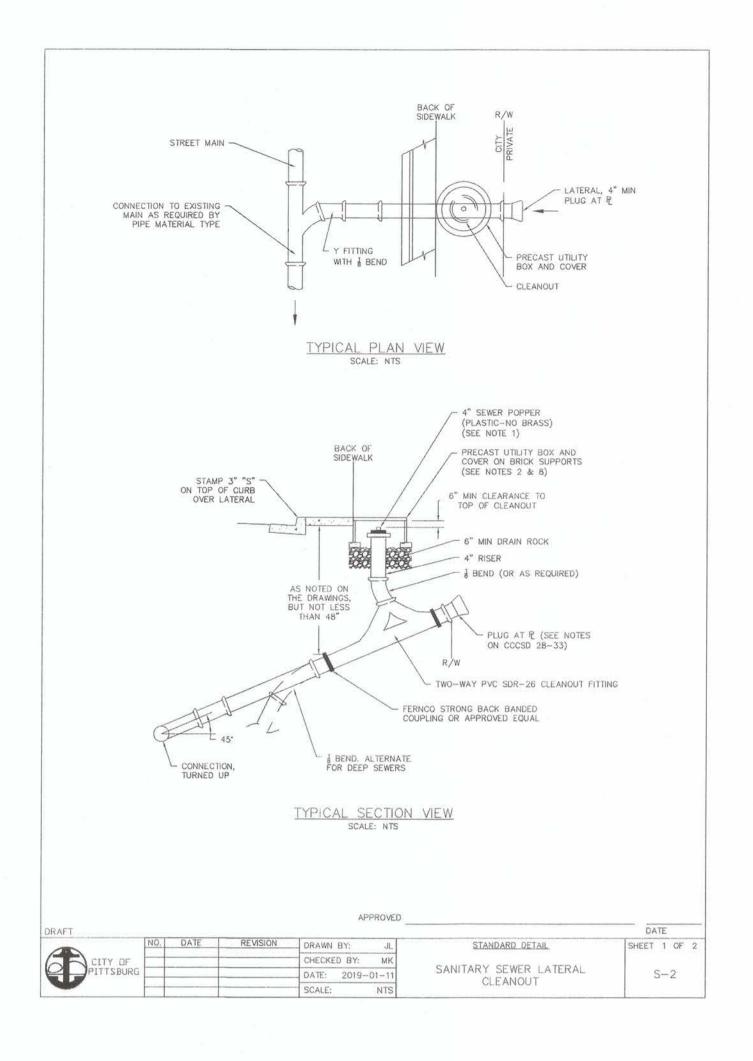
SANITARY SEWER NOTES

- See City Ordinance and Central Contra Costa Sanitary District (CCCSD) Sections 1 15 for design criteria and details.
- Use S-2 for sanitary sewer lateral details. When S-2 conflicts with CCCSD details or specifications, the S-2 detail shall prevail.
- 3. All other improvements shall be constructed per CCCSD details numbered DWG 1 through DWG 52, which is available online at http://centralsan.org/index.cfm?navld=920 or may be purchased at the following location:

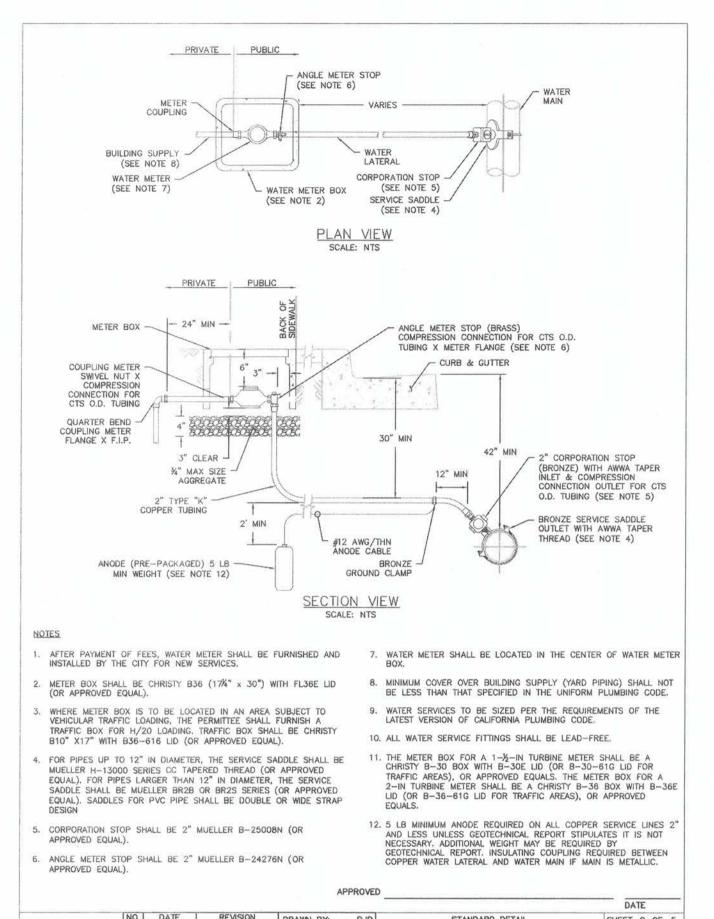
CCCSD Offices 5019 Imhoff Place Martinez, CA 94553 (925) 229-3890

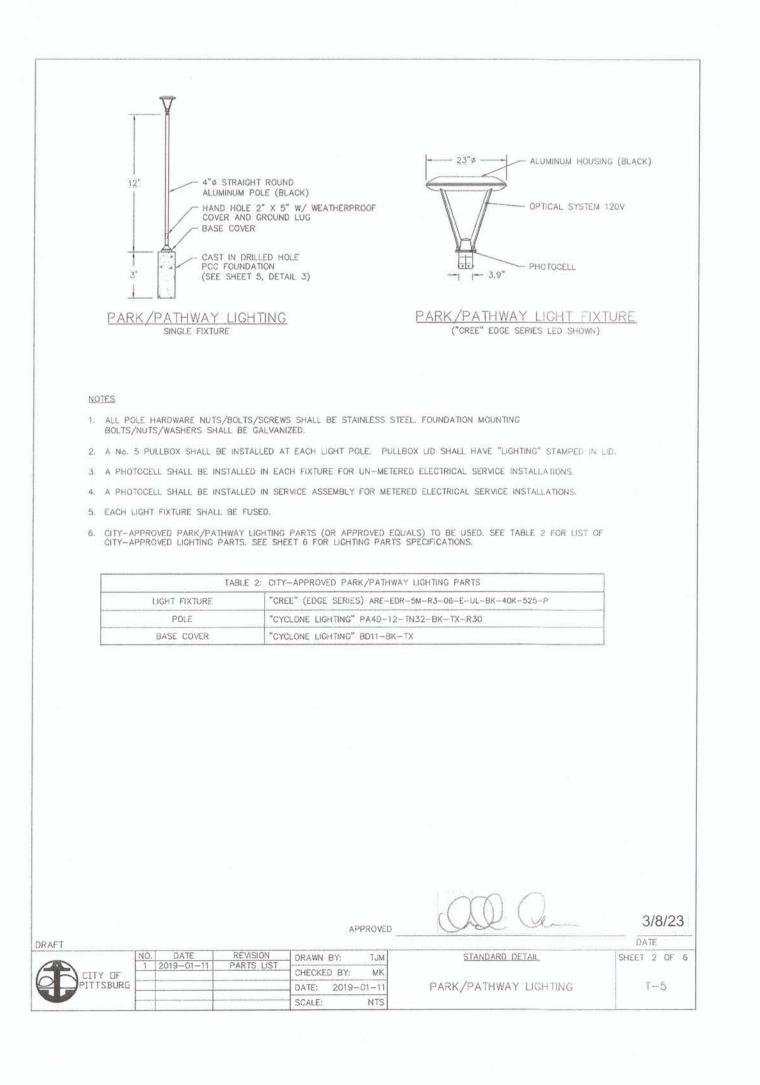
- 4. For trench width, use City Standard Detail R-5.
- 5. Wherever "the Engineer" or "County Engineer" is used, this refers to the City Engineer.
- 6. No steps in any structures (MH, vaults, etc.).
- 7. Sanitary sewer mains, sewer manholes, and sewer lateral services (side sewers) shall be constructed in accordance with the CCCSD Standard Specifications, Sections 18 through 23 and selected Standard Details, as modified by these City Standards. City of Pittsburg Standard Specifications shall not apply except where the CCCSD Standard Specifications are silent.
- 8. Where the CCCSD Standard Specifications and Standard Drawings make reference to "District", that term shall mean the City of Pittsburg. Except where modified by these City Standards, the Contractor shall furnish all materials and perform all construction operations and installations, television inspection, and testing of new facilities, regardless of contradictory language in the CCCSD standards stating that the work will be performed by the "District".
- 9. Grade rings are to be 12" maximum.
- 10. For motor court homes, manholes are to be located at least 30' from doors to avoid odor.
- 11. Sewer check concrete apron around it.

				APPROVED		DATE
	NO.	DATE	REVISION	DRAWN BY:	STANDARD DETAIL	SHEET 1 OF 1
CITY OF	1	2019-01-11	NOTES 9-11	CHECKED BY: MK		
PITTSBURG				DATE: 2019-01-11	SANITARY SEWER NOTES	S-1
	-			SCALE: NONE		

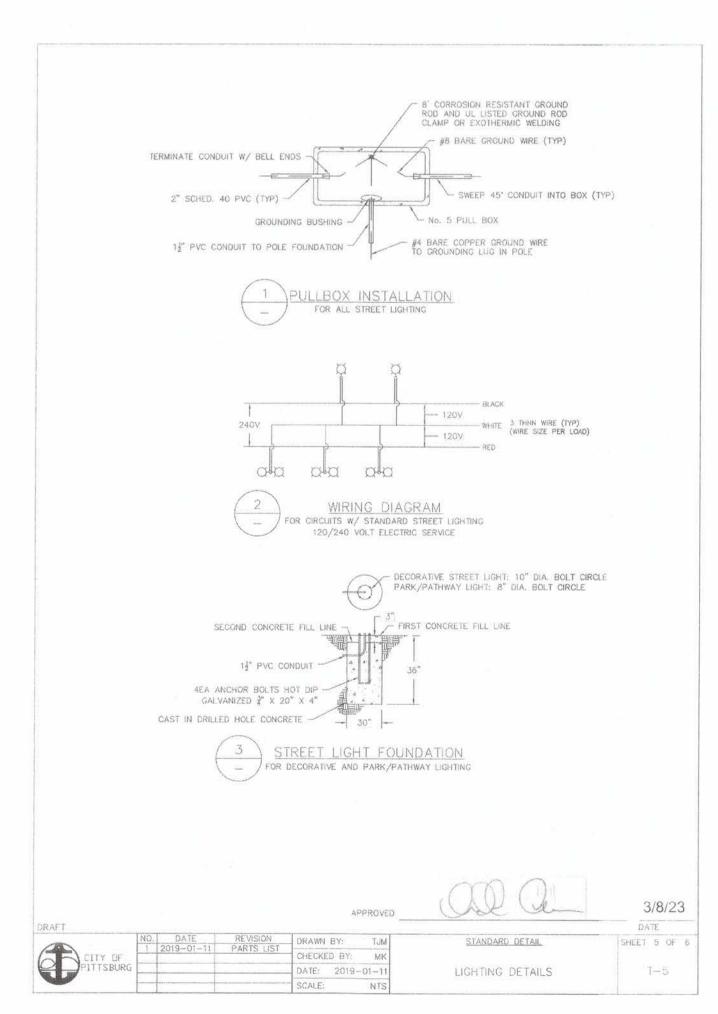










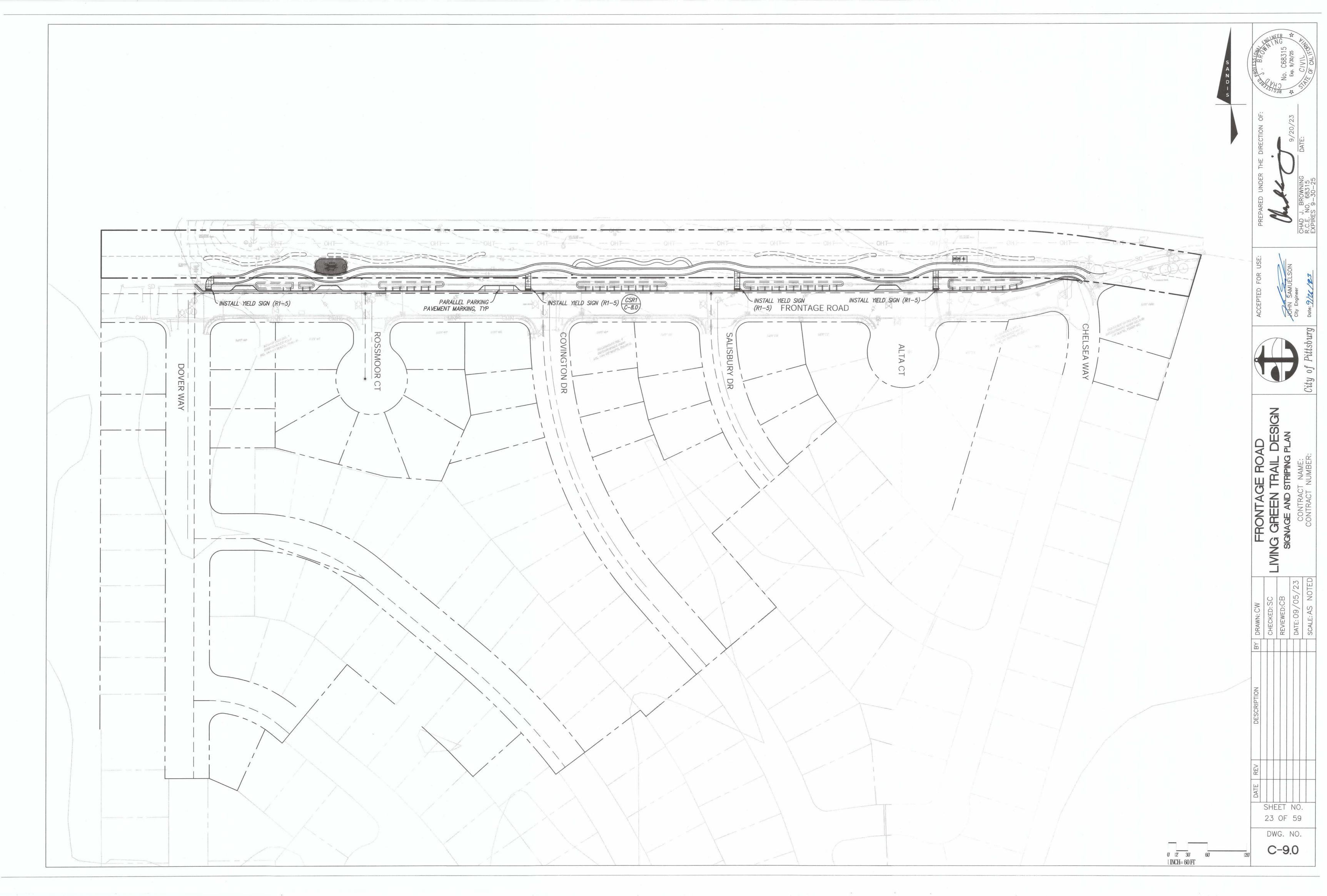




SHEET NO.

22 OF 59

DWG. NO.

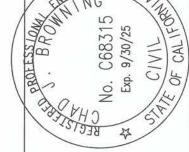


STABILIZED EXIT TC-1 CONCRETE WASHOUT SK SPILL KIT PORTABLE RESTROOM CONSTRUCTION TRAILER PATH OF SURFACE DRAINAGE FIBER ROLL SLT FENCE SLT FENCE C-10.1 INLET PROTECTION APPROXIMATE AREA OF CONSTRUCTION DISTURBANCE — AREA TO COMPLY WITH REQUIREMENTS IN PROJECT SWPPP

WATER POLLUTION CONTROL NOTES:

- A. TEMPORARY CONSTRUCTION ENTRANCE/EXIT LOCATION SHOWN IS APPROXIMATE. CONTRACTOR TO PROVIDE LOCATION WHERE APPROPRIATE.
- B. THIS PLAN REPRESENTS POSSIBLE WATER POLLUTION CONTROL MEASURES INCLUDING EROSION CONTROL AND SEDIMENT CONTROL.
- C. EXISTING SURFACES SHALL BE UNDISTURBED TO THE EXTENT PRACTICAL.
- D. GROUND WATER SHALL NOT BE DISCHARGED WITH STORM WATER. GROUND WATER DEWATERING OPERATIONS SHALL BE COORDINATED AS NEEDED WITH OWNER.
- E. CONTRACTOR SHALL PROVIDE EFFECTIVE SOIL COVER FOR AREAS OF CONSTRUCTION ACTIVITY THAT HAVE BEEN DISTURBED AND ARE NOT SCHEDULED TO BE ACTIVE FOR AT LEAST 14 DAYS.
- F. ALL EROSION CONTROL AND SEDIMENT CONTROLS TO BE OBTAINED INSTALLED AND MAINTAINED AS REQUIRED IN PROJECT SWPPP.
- G. CONTRACTOR TO INSTALL RUN—ON AND RUN—OFF CONTROL MEASURES ACCORDING TO PLANS OR AS NECESSARY TO ENSURE SEDIMENT IS NOT TRANSPORTED FROM SITE.
- H. CONTRACTOR TO PROVIDE BACK—UP EROSION PREVENTION MEASURES (SOIL STABILIZATION) WITH SEDIMENT CONTROL MEASURES SUCH AS STRAW WATTLES, SILT FENCE, GRAVEL INLET FILTERS, AND/OR SEDIMENT TRAPS OR BASINS. ENSURE CONTROL MEASURES ARE ADEQUATE, IN PLACE, AND IN OPERABLE CONDITIONS. SEDIMENT CONTROLS, INCLUDING INLET PROTECTION, ARE NECESSARY BUT SHOULD BE A SECONDARY DEFENSE BEHIND GOOD EROSION CONTROL MEASURES.
- I. STOCKPILE LOCATION(S) TO BE DETERMINED BY THE CONTRACTOR. COORDINATE WITH SITE QSP.

- J. ALL CONCRETE TRUCKS TO USE CHUTE WASH BUCKETS FOR CONCRETE RINSE, ALL CONCRETE PUMPS TO CAPTURE CONCRETE RINSE IN SECONDARY CONTAINMENT AND PROPERLY DISPOSE.
- K. STREET SWEEPING SHALL BE CHECKED DAILY TO ENSURE DEPOSITED SEDIMENT AND DEBRIS DOES NOT ENTER THE STORM DRAIN SYSTEM. USE REGENERATIVE VACUUM STREET CLEANER TO MITIGATE AIR AND WATER POLLUTION.
- L. RUNOFF THAT HAS CONTACTED AMENDED SOIL AREAS SHALL NOT BE ALLOWED TO LEAVE THE SITE OR ENTER THE STORM DRAIN SYSTEM.
- M. THE SURFACE OF CUT AND FILL SLOPES WITH GREATER THAN 5' IN VERTICAL HEIGHT SHOULD BE COVERED BY A TURF REINFORCING MAT TO HELP PROVIDE TEMPORARY EROSION PROTECTION UNTIL VEGETATION IS RE—ESTABLISHED OVER THE AREA TO PROVIDE LONG—TERM EROSION PROTECTION OF THE SLOPE SURFACE. A TYPE A REINFORCING MAT MEETING THE REQUIREMENTS OF SECTION 21—2.020(5) OF THE 2018 CALTRANS STANDARD SPECIFICATIONS, SUCH AS MIRAFI TM13C OR EQUIVALENT, SHALL BE USED. THE TURF REINFORCING MAT SHOULD BE OVERLAPPED A MINIMUM OF 1' AT THE SEAMS AND FIXED TO THE SURFACE OF THE SLOPE PER THE MANUFACTURER'S REQUIREMENTS. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, CUT AND FILL SLOPES SHOULD BE HYDROSEEDED TO HELP ENCOURAGE GROWTH OF VEGETATION ON THE SURFACE TO SERVE AS AN ADDITIONAL LONG—TERM EROSION CONTROL MEASURE.



9/20/23 & BEGISTER DATE:

CHAD J. BROWNING DATE:

JOHN SAMUELSON City Engineer



IGN Of Bit

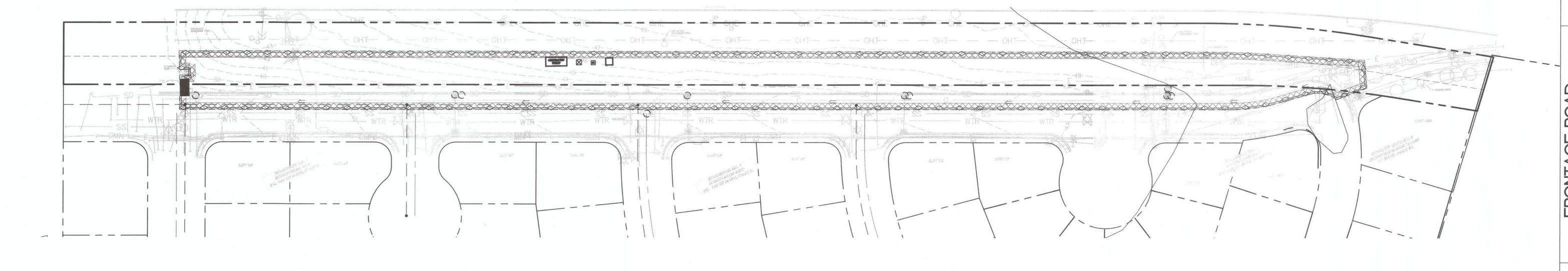
NG GREEN TRAIL DESIGN
EROSION CONTROL PLAN

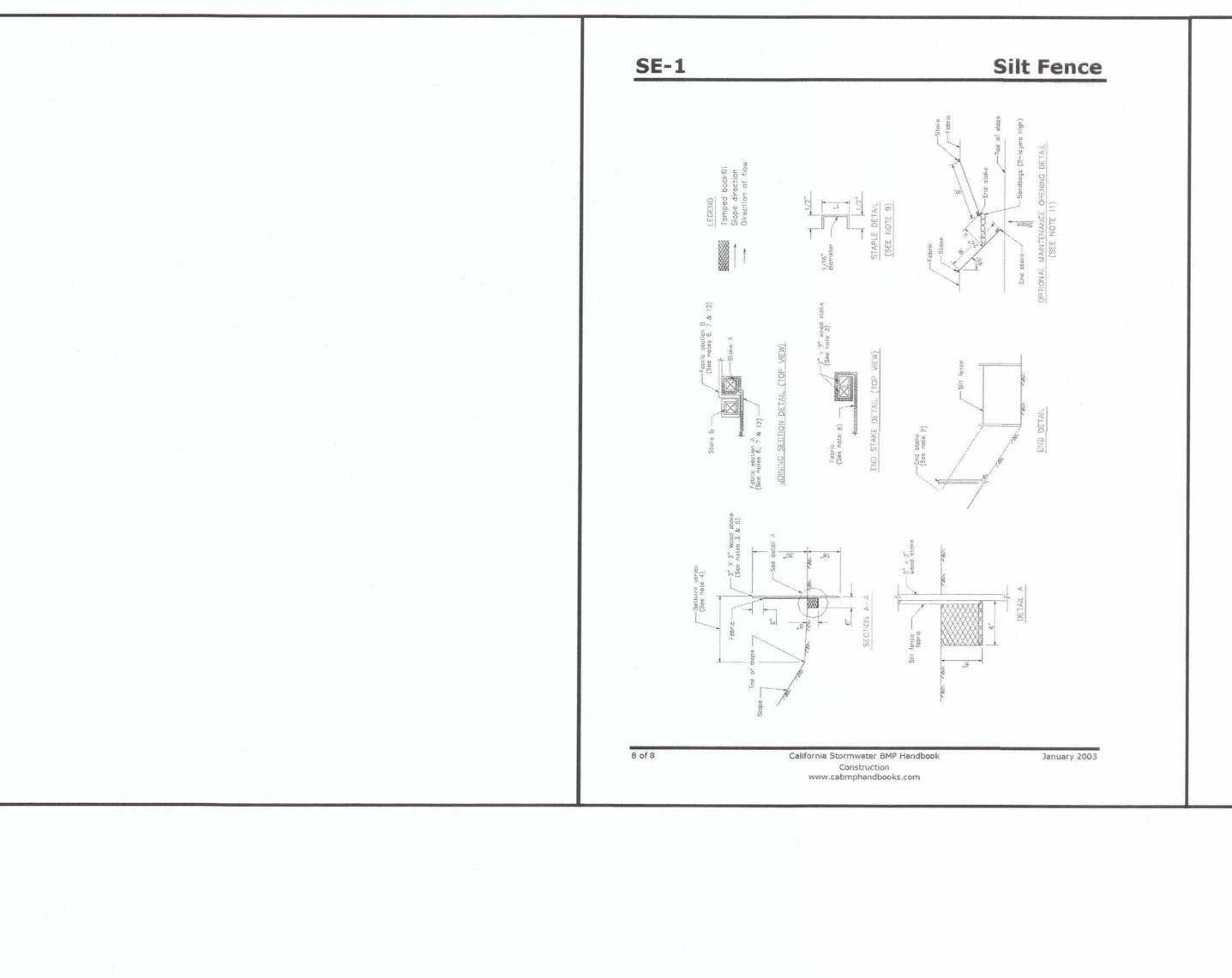
REVIEWED:CB
DATE: 09/05/23
SCALE: AS NOTED

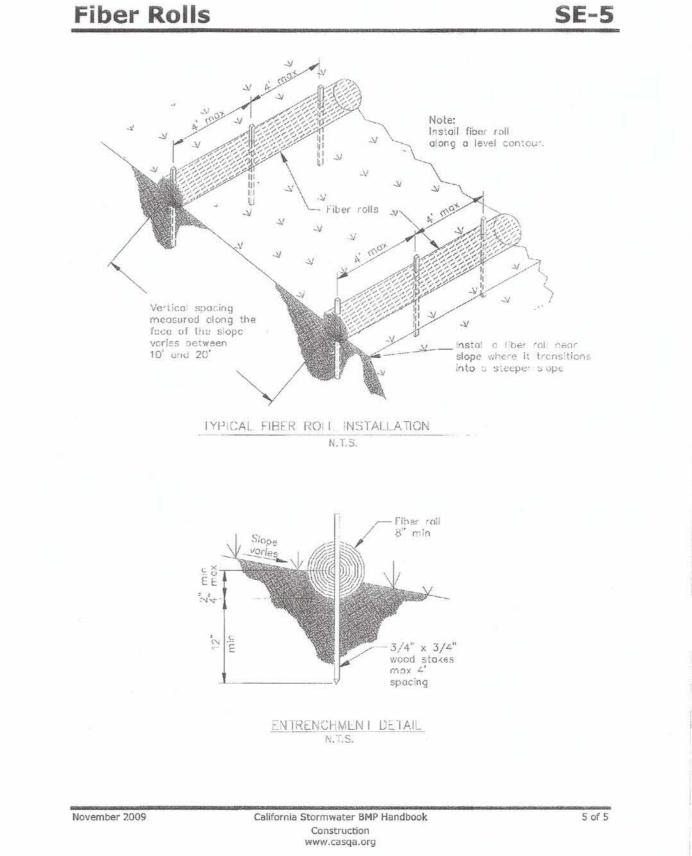
SHEET NO. 24 OF 59

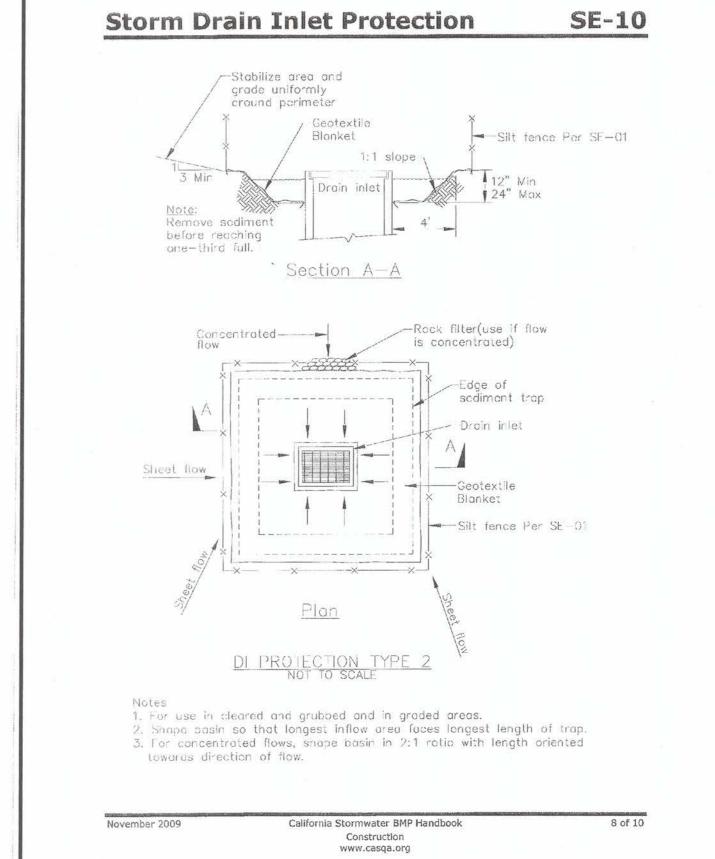
DWG. NO.

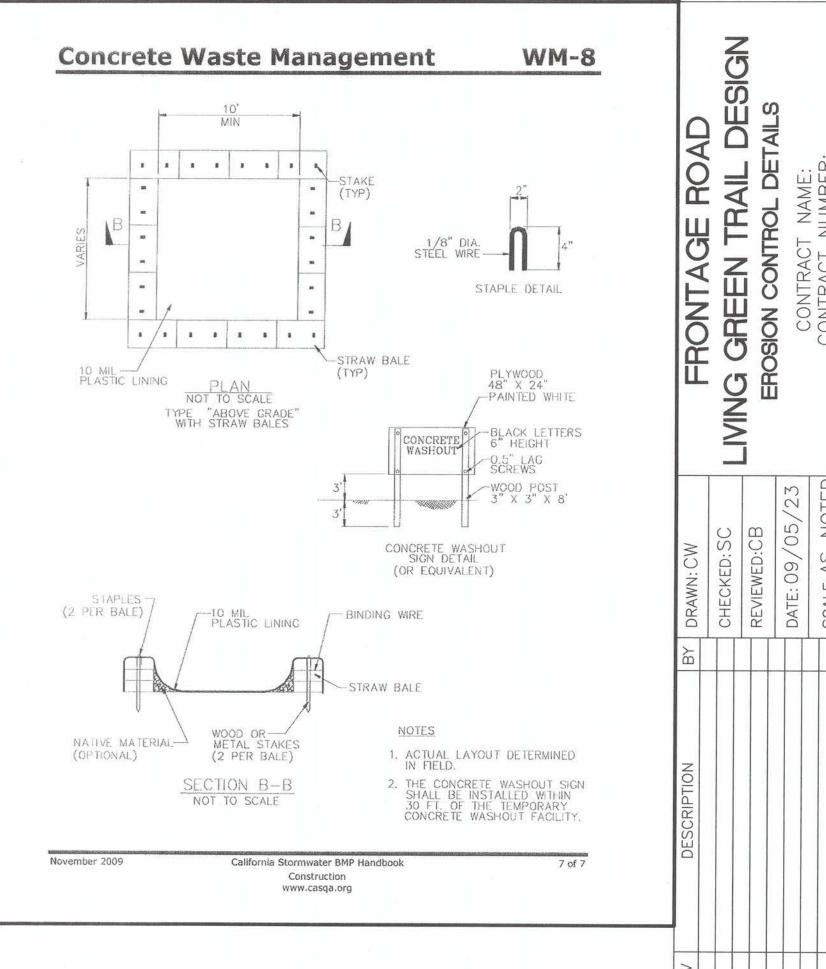
0' 12' 30' 1 INCH= 60 FT C-10.0







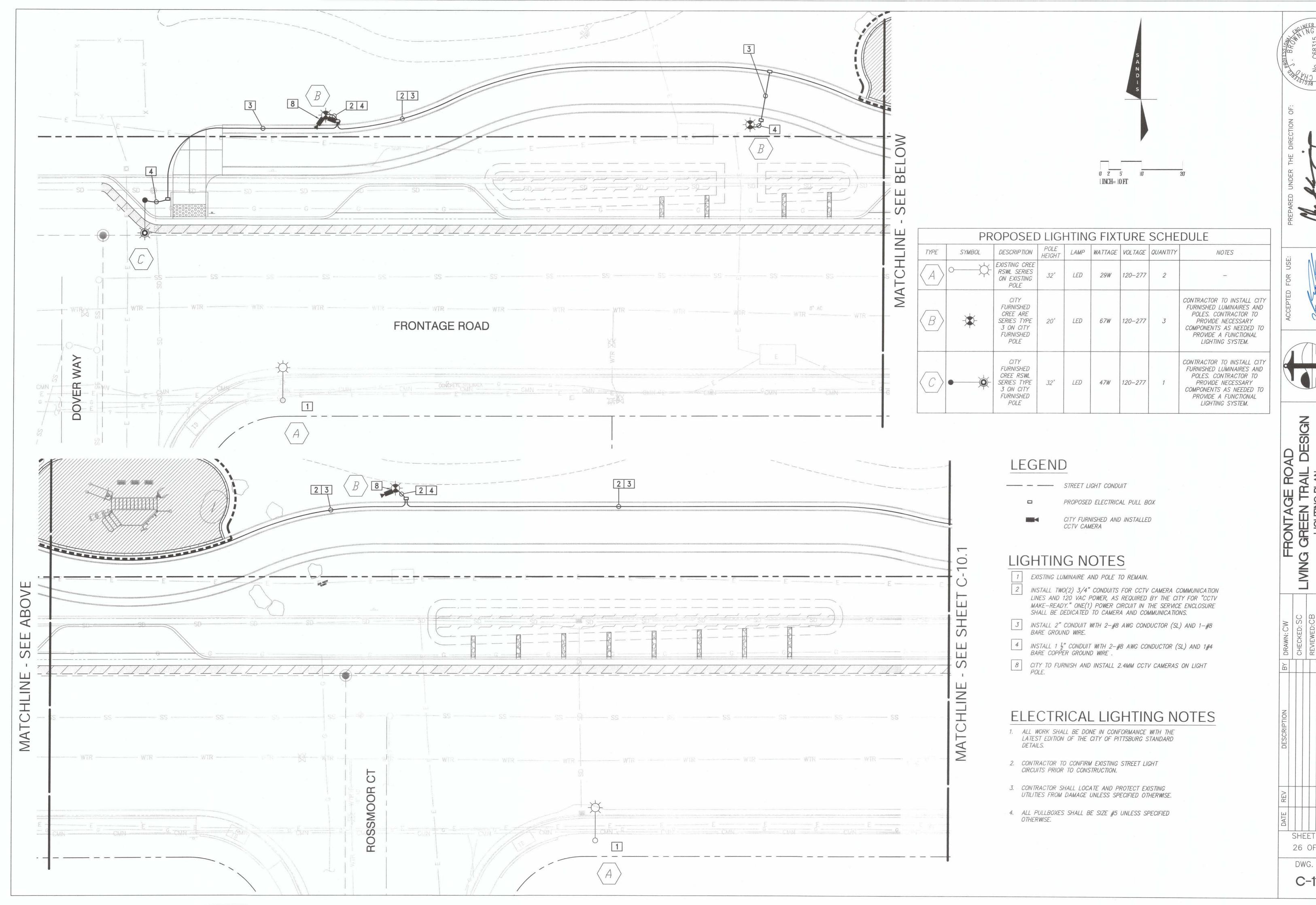




SHEET NO. 25 OF 59

DWG. NO.

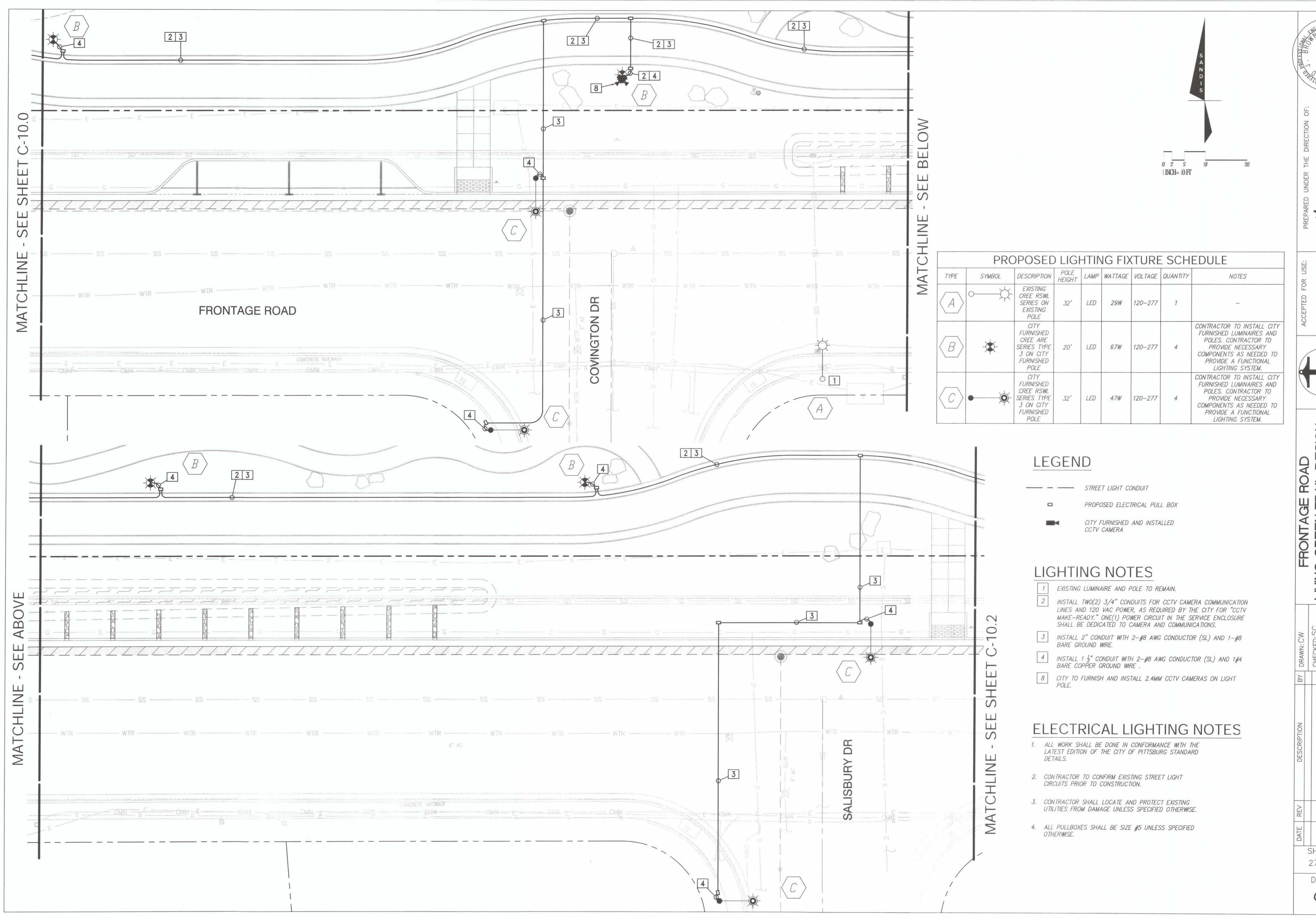
C-10.1



SHEET NO.

26 OF 59 DWG. NO.

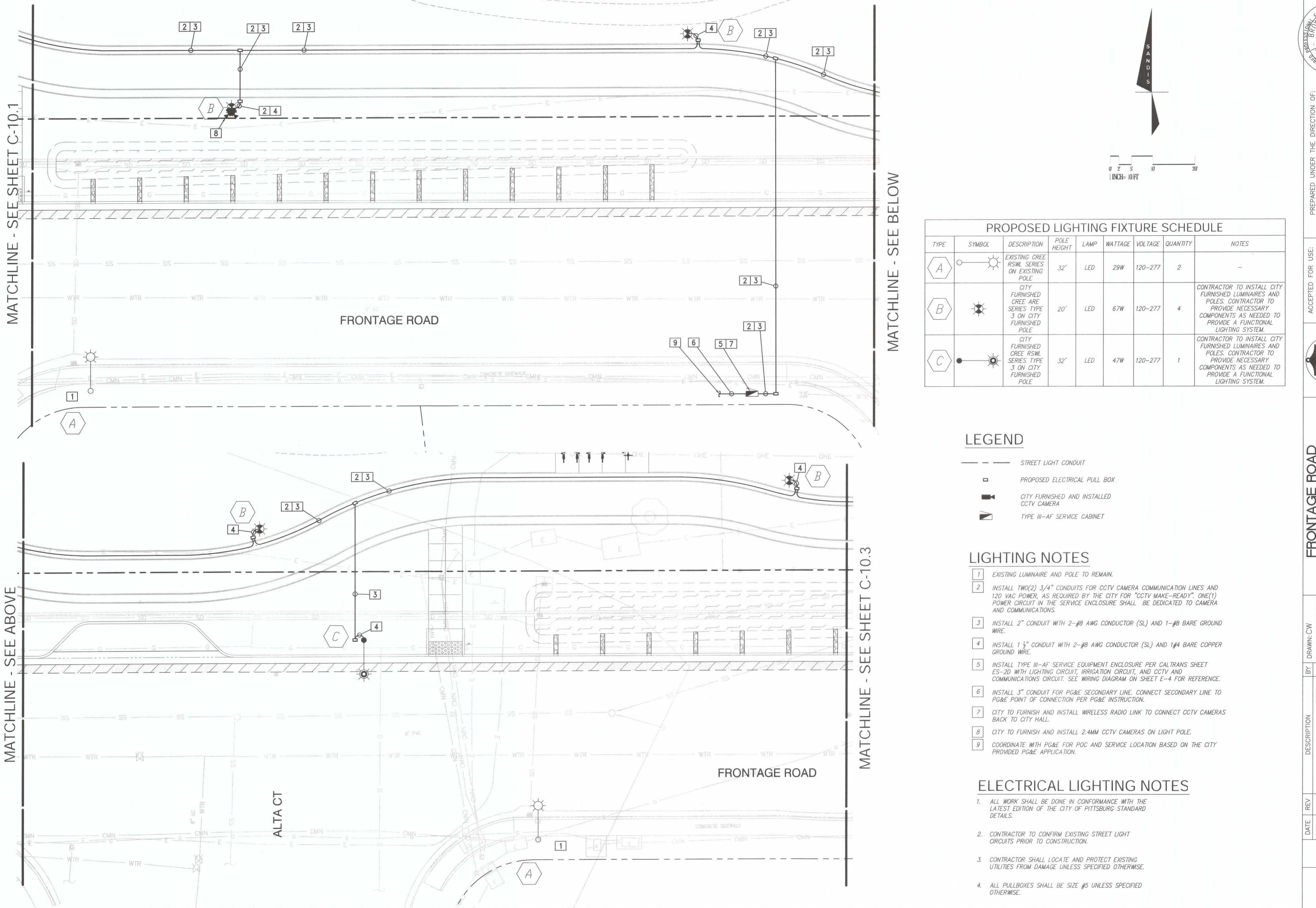
C-11.0



SHEET NO.

27 OF 59 DWG. NO.

C-11.1



4x Exp. 9/30/25 X Exp

AKED UNDER THE DIRECTION OF 9/20/23

BROWNING DATE:

JOHN SAMUELSON City Engineer

y of Pittsburg

ICHTING PLAN
ONTRACT NAME:
NTRACT NUMBER:

REVIEWED:CB
DATE: 09/05/23
SCALE: AS NOTED

SHEET NO. 28 OF 59 DWG. NO.

C-11.2

_AYOUT NOTES

- CONTRACTOR SHALL VERIFY ALL UTILITIES, GRADES, EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO COMMENCING WORK. ALL DISCREPANCIES OR QUESTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR RESOLUTION.
- 2. ALL WRITTEN DIMENSIONS SUPERCEDE ALL SCALED DISTANCES AND DIMENSIONS. DIMENSIONS SHOWN ARE FROM THE FACE OF THE BUILDING, WALL, BACK OF CURB, EDGE OF WALK, PROPERTY LINE, OR CENTERLINE OF COLUMN UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- ALL DIMENSIONS AT ROADWAY ARE TO FACE OF CURB.
- 4. ALL ANGLES ARE 45 DEGREE, 90 DEGREE, OR 135 DEGREE UNLESS OTHERWISE NOTED.
- 5. ALL CURVES AND ALL TRANSITIONS BETWEEN CURVES AND STRAIGHT EDGES SHALL BE SMOOTH.
- 6. ALL RETURN RADII AND CURB DATA ARE TO FACE OF CURB.
- 7. SCORE LINES IN SIDEWALKS SHALL BE SPACED TO EQUAL THE WIDTH OF THE WALKWAY, UNLESS OTHERWISE SHOWN. EXPANSION JOINTS IN SIDEWALKS SHALL BE 20' ON CENTER MAXIMUM.
- SIDEWALK, CURB AND GUTTER, GRADING AND DRAINAGE IS BASED ON DRAWINGS PREPARED BY THE CIVIL ENGINEER.
- STATIONING HEREON IS ALONG CONSTRUCTION CENTERLINE UNLESS OTHERWISE SHOWN OR INDICATED.
- 10. ANY EXTRA CONSTRUCTION STAKING NECESSITATED SOLELY BY THE CONTRACTOR'S NEGLIGENCE WILL BE CHARGED TO THE CONTRACTOR ON A TIME AND EXPENSES BASIS AND PAID FOR BY THE CONTRACTOR.
- 11. SEE IRRIGATION DRAWINGS FOR GENERAL SYSTEM REQUIREMENTS AND FOR LOCATION OF IRRIGATION MAINLINE PIPING. SLEEVES TO ACCOMMODATE IRRIGATION PIPING, SIZED AS NEEDED, SHALL BE IN PLACE UNDER AND THROUGH SLABS AND WALLS, PRIOR TO POURING.
- 12. PROVIDE CONTINUOUS HEADERS AT THE EDGES OF ALL AC PAVING, SHRUB AREAS, LAWN AREAS, DECOMPOSED GRANITE WHERE IT IS NOT CONSTRAINED BY A CONCRETE PAVING OR MOW BAND.
- 13. ALL CONCRETE PAVEMENTS SHALL BE DOWELED INTO CURBS, SIDEWALKS, AND BUILDING FOUNDATIONS.
- 14. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION, SECTIONS, REINFORCEMENT, AND PREPARATION. IN CASE OF DISCREPANCY THE GEOTECHNICAL REPORT SHALL GOVERN.
- 15. ALL TYPICAL DETAILS SHALL APPLY UNLESS NOTED OTHERWISE.
- 16. ANY AND ALL WORK WITHIN PITTSBURG RIGHT OF WAY SHALL CONFORM TO ALL PITTSBURG STANDARD DETAILS AND SPECIFICATIONS.
- 17. CONCRETE FOOTINGS INSTALLED FOR ALL SITE FURNISHINGS, SPORTS EQUIPMENT, ETC. IN DECORATIVE PAVEMENT, ASPHALT PAVING, DECOMPOSED GRANITE, CONCRETE PAVING, AND PLANTERS SHALL BE HELD BELOW GRADE.
- 18. ALL EXISTING ITEMS TO REMAIN SHALL BE PROTECTED AS REQUIRED. ANY DAMAGED ITEMS SHALL BE FULLY REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE TO THE FULL SATISFACTION OF THE
- 19. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH OPERATIONS.
- 20. ALL QUANTITIES AND PAY ITEMS ARE AND WILL BE BASED ON HORIZONTAL MEASUREMENTS.
- 21. ALL PATTERNS, LINE TYPES, AND SYMBOLS SHOWN WITHIN THE PLAN SET REFERENCE THE LAYOUT LEGEND AND ARE PART OF THE SCOPE OF WORK. CALLOUTS ARE SHOWN FOR CLARIFICATION OF WORK, BUT DO NOT INDICATE EVERY AND ALL INSTANCES OF SUCH WORK. THE CONTRACTOR SHALL REQUEST CLARIFICATION TO ANY ITEMS (INCLUDING BUT NOT LIMITED TO PAVING, WALLS, FINISHES, COLORS, FENCING, FOUNTAINS, POTS, AND SITE FURNITURE) NOT CLEARLY IDENTIFIED TO BE PART OF THE SCOPE OF WORK PRIOR TO BID.
- 22. THE CONTRACT DRAWINGS MUST BE ACCOMPANIED BY CONTRACT SPECIFICATIONS. THE CONTRACTOR MUST CONTACT THE LANDSCAPE ARCHITECT AT 925-736-8176 FOR SPECIFICATIONS IF NOT RECEIVED.
- 23. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK AND MATERIALS OF THE CONTRACT DOCUMENTS INCLUDING ALL WORK AND MATERIALS PROVIDED BY SUBCONTRACTORS. ALL QUALIFICATIONS OF THE CONTRACT DOCUMENTS INCLUDING ALL SPECIFIC EXCLUSIONS OF ANY WORK, DETAILS, MATERIALS, AND INCIDENTALS SHALL BE CONFIRMED AND ACCEPTED IN WRITING BY THE CONTRACTOR AND OWNER UPON FINALIZATION OF BIDS AND CONTRACT. THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED OF ALL QUALIFICATIONS AND NOTIFICATIONS.

SUBMITTAL AND MOCK UP NOTES

PAVING

1. CONTRACTOR SHALL SUBMIT DECOMPOSED GRANITE MOCK UP PER SPECS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

LAYOUT LEGEND

PAVING SCHE	DULE				
SYMBOL	NAME	DETAIL	DESCRIPTION/ MANUFACTURER	MODEL AND SIZE	COLOR AND FINISH
	PEDESTRIAN CONCRETE PAVING	1/L5.03	CIP CONCRETE	_	STANDARD GRAY, MEDIUM BROOM
	DECOMPOSED GRANITE PAVING	3/L5.03	TECHNISOIL	G3 COMMERCIAL SURFACE	CALIFORNIA GOLD
	= REDWOOD HEADER	3/L5.02	_	SEE DETAIL	_

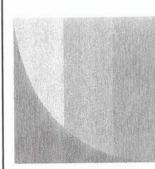
SITE FURNISHING	SCHEDULE				
SYMBOL	NAME	DETAIL	DESCRIPTION/ MANUFACTURER	MODEL	COLOR AND FINISH
	BIKE RACK	1,2/L5.04	CITY STANDARD	MADRAX, UX-200-LB-IG-G CUSTOM LEAN BAR W/ CITY LOGO	FOREST GREEN
*	BIKE REPAIR STATION	3/L5.04	MDF	195 SM W/ PLATE TEMPLATE, STANDARD PEDESTAL	FINISH: POWDER COAT COLOR: GREEN
(0)	BOULDER PLACEMENT	2/L5.02	PARSONS WALLS OR APPROVED EQUAL	_	PER DETAIL
DW e	DOG WASTE DISPENSER	4/L5.04	PET PICKUPS	MODERN DOG KIT	GREEN

LAYOUT LEGEND - ADD ALT

PAVING SCHEDUL	E				
SYMBOL	NAME	DETAIL	DESCRIPTION/ MANUFACTURER	MODEL	COLOR AND FINISH
	SYNTHETIC RUBBER SURFACING	4/L5.03	SURFACE AMERICA	EXTREME-10	BEIGE
	CONCRETE MOWBAND	2/L5.03	CIP CONCRETE	_	STANDARD GRAY, MEDIUM BROOM

SYMBOLS LEGEN		-					4
SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
PA	PLANTING AREA	LOW	LIMIT OF WORK	•			PROPOSED POST TOP LIGHT, S.E.D.
		*	POINT OF BEGINNING		PROPOSED STREET	->>	EXISTING POST TOP LIGHT TO REMAIN, S.E.D.
	SCORE LINE	ę	CENTER LINE	LIGHT, S.E.D.		· *	EXISTING STREET LIGHT TO REMAIN, S.E.D.
EJ	EXPANSION JOINT	~	FLUSH/ ALIGN				RIP RAP, S.C.D.
4						_	SIGN, S.C.D.

LIST TABLE SHEET TITLE NOTES AND LEGEND PLANTING NOTES AND LEGEND LAYOUT PLAN





E RO

SHEET NO.

30 **OF** 59

DWG. NO.

ABBREVIATIONS

CONTROL POINT AGGREGATE BASE CONTROL CTRL ASPHALT CONCRETE CUBIC YARD AREA DRAIN PROVISION OF THE MUNICIPAL AMERICANS WITH DISABILITIES ACT ADA REGIONAL STORMWATER NPDES ADD ALT ADD ALTERNATE PERMIT (MRP) THAT REQUIRES EACH AFF ABOVE FINISHED GRADE DISCHARGER TO CONTROL THE FLOW AGGREGATE SUBBASE OF STROMWATER POLLUTANTS FROM BACK FLOW PREVENTOR BFP NEW DEVELOPMENT AND BUILDING BLDG REDEVELOPMENT SITES OVER WHICH BLVD BOULEVARD BOTTOM OF STEP IT HAS JURISDICTION BOS FG @ BOTTOM OF WALL DOMESTIC BOW D/W DRIVEWAY B/W BETWEEN DRAWING BACK OF WALK EAST OR ELECTRICAL BOTH WAYS BW EXISTING CONCRETE CAST IN PLACE EACH CIP CENTER LINE OR CLASS **EXPANSION JOINT** EJ CONCRETE MASONRY UNIT **ELEVATION ELEV** CONCRETE EQUAL CONC

EQUAL SPACING ES EACH WAY EW EXISTING EX., EXIST. **FUTURE** FACE OF CURB FINISHED FLOOR FINISHED GRADE FLOW LINE FACE OF BUILDING FOB FINISHED SURFACE FS GROUND ELEVATION GATE VALVE HANDICAP FACILITY ACCESSIBLE RAMP HCR HIGH DENSITY POLYEHTYLENE HDPE HIGH POINT HSB HEAVY SAND BLAST HEIGHT

LSA LSB MAX MDL MED MEP MFR MIN

IRRIGATION CONTROL IRRIGATION JUNCTION BOX JOINT TRENCH LENGTH LIMIT OF WORK LIP OF GUTTER LOW POINT LANDSCAPE ARCHITECT LIGHT SAND BLAST MAXIMUM MODEL MEDIUM MECHANICAL/ELECTRICAL/PLUMBING PCC MANUFACTURER MANHOLE MINIMUM PIV MEDIUM SAND BLAST MSB

INVERT ELEVATION

NORTH NORTH EAST NORTH WEST (R) NOT IN CONTRACT NUMBER NOT TO SCALE ON CENTER OWNER FURNISHED CONTRACTOR INSTALLED OWNER FURNISHED OWNER INSTALLED ORIGINAL GRADE PLANTING AREA PORTLAND CEMENT CONCRETE / SF POINT OF CONTINUOUS CURVATURE SG PERFORATED S.L.D. POST INDICATOR VALVE PROPERTY LINE

PROPOSED POLYVINYL CHLORIDE PIPE PVC RELOCATED RADIUS RELATIVE COMPACTION RAILROAD RIGHT OF WAY SLOPE OR SOUTH SEE ARCHITECTURAL DRAWINGS SAND BLAST SEE CIVIL DRAWINGS STORM DRAIN SOUTH EAST SEE ELECTRICAL DRAWINGS SILT FENCE

SEE MECHANICAL DRAWINGS

S.P.D. SS SSCO SSMH SST S.S.D. STA STD SW S/W SUBGRADE SIMILAR TD SEE LANDSCAPE DRAWINGS

SP

TEL, T

SIGNAL MANHOLE TOD SPACING SEE PLUMBING DRAWINGS TOS SANITARY SEWER TOW SANITARY SEWER CLEANOUT SANITARY SEWER MANHOLE STAINLESS STEEL SEE STRUCTURAL DRAWINGS UON STREET STATION STANDARD SQUARE SOUTH WEST OR SIDEWALK WPM WTR SIDEWALK TREAD TO BE DETERMINED TOP OF CURB

W/OUT

TRENCH DRAIN

TELEPHONE

THROUGH TOP OF DOCK TOE OF SLOPE TOP OF STAIR FG @ TOP OF WALL TOP OF SLAB TYPICAL UNLESS OTHERWISE NOTED UNDERGROUND WATER OR WEST WATER METER WATERPROOF WATERPROOF MEMBRANE WATER WATER VALVE WELDED WIRE FABRIC WITH WITHOUT

SHEET NO.

LAYOUT PLAN - ADD ALT

LAYOUT PLAN

LAYOUT PLAN

LAYOUT PLAN

LAYOUT PLAN

LAYOUT PLAN

IRRIGATION DETAILS

IRRIGATION DETAILS

PLANTING PLAN

PLANTING PLAN

PLANTING PLAN

PLANTING PLAN

PLANTING PLAN

PLANTING PLAN

PLANTING DETAILS

CONSTRUCTION DETAILS

CONSTRUCTION DETAILS

CONSTRUCTION DETAILS

CONSTRUCTION DETAILS

L4.03

L5.04

L5.05

IRRIGATION NOTES AND LEGEND

IRRIGATION WATER CALCULATIONS

PLANTING NOTES

GENERAL

- ALL WORK SHALL BE PERFORMED BY PERSONS FAMILIAR WITH PLANTING WORK AND UNDER THE SUPERVISION OF A QUALIFIED PLANTING FOREMAN.
- ALL QUANTITIES AND PLANT COUNTS ARE FOR THE CONVENIENCE OF THE CONTRACTOR. IN CASE OF DISCREPANCIES. THE PLAN SHALL GOVERN.
- 3. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE SUBSTITUTIONS, ADDITIONS, AND DELETIONS IN THE PLANTING SCHEME AS THEY FEEL NECESSARY WHILE WORK IS IN PROGRESS, UPON APPROVAL BY THE OWNER. SUCH CHANGES ARE TO BE ACCOMPANIED BY EQUITABLE ADJUSTMENTS IN THE CONTRACT PRICE, WHEN NECESSARY
- 4. PLANT MATERIAL LOCATIONS SHOWN ARE DIAGRAMMATIC AND MAY BE SUBJECT TO CHANGE IN THE FIELD BY THE LANDSCAPE ARCHITECT. PLANT LOCATIONS ARE TO BE ADJUSTED IN THE FIELD AS NECESSARY TO SCREEN UTILITIES, BUT SHALL NOT BLOCK WINDOWS, BLOCK SIGNS NOR IMPEDE ACCESS.
- 5. THE DESIGN INTENT OF THE PLANTING PLAN IS TO ESTABLISH AN ATTRACTIVE MATURE LANDSCAPE APPEARANCE. FUTURE PLANT GROWTH WILL NECESSITATE TRIMMING, SHAPING, AND IN SOME CASE REMOVAL OF TREES AND SHRUBS AS AN ON-GOING MAINTENANCE PROCEDURE.
- 6. ALL PLANTING AREA MUST BE IRRIGATED WITH AUTOMATIC IRRIGATION SYSTEM. IRRIGATION SYSTEM SHALL BE FULLY AUTOMATED AND OPERATIONAL WITH FULL COVERAGE PRIOR TO PLANTING.
- 7. CONTRACTOR TO REVIEW ALL EXISTING, PROPOSED, & AS BUILT UTILITY PLANS PRIOR TO CONSTRUCTION. CONTRACTOR TO TAKE PRECAUTIONS IN EXCAVATION OF ALL TREE PLANTING PITS. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS FOUND DURING CONSTRUCTION.
- CONTRACTOR MUST REVIEW ALL PLANS PRIOR TO THE BEGINNING OF CONSTRUCTION AND MAINTAIN THE FOLLOWING CLEARANCES FOR ALL TREE PLANTINGS. CONTRACTOR TO TAKE PRECAUTION IN ALL EXCAVATION ACTIVITY. NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLATION.

FIRE HYDRANTS AND PIVS: 5' MINIMUM LIGHT POLES: 10' MINIMUM UTILITIES: 5' MINIMUM BUILDING ROOF EDGE: 5' MINIMUM

- 9. CONTRACTOR TO PROVIDE AND ARRANGE FOR PLANT MATERIAL THRU CONTRACT GROW, PLANT BROKERS, OR DIRECT PURCHASE AS REQUIRED FOR THE FULL IMPLEMENTATION OF THE PROJECTS PLANTING PLAN. CONTRACTOR MUST SUBMIT WITHIN 30 DAYS AFTER AWARD OF A BID A DETAILED NURSERY LIST OF SECURED PLANT MATERIAL, CONTRACT GROW PLANT MATERIAL, AND ANY SUBSTITUTION REQUESTS. CONTRACTOR SHALL ARRANGE AND SECURE ALL PLANT MATERIAL WITHIN 30 DAYS OF BID. UPON DELIVERY, PLANT MATERIAL THAT DOES NOT MEET NURSERY STANDARDS, IS ROOT BOUND, OF POOR QUALITY & HEALTH, SUBSTANDARD SIZE, AND/OR IS NOT APPROVED BY THE LANDSCAPE ARCHITECT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. MATERIAL WHICH IS NOT SECURED AND IS UNAVAILABLE IN THE SIZE SPECIFIED SHALL BE UP-SIZED, IF AVAILABLE. ALL REPLACEMENT MATERIAL, SUBSTITUTIONS OR UP-SIZED PLANT MATERIAL MUST BE PROVIDED AS REQUIRED FOR THE FULL IMPLEMENTATION OF THE PLANTING PLAN AT NO ADDITIONAL COST TO THE CONTRACT AND OWNER.
- 10. PROCUREMENT OF PLANT MATERIAL SHALL NOT BE LIMITED TO NORTHERN CALIFORNIA. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRUCKING, INSPECTIONS, AND INCIDENTALS FOR PROVIDING PLANT MATERIAL FROM SOURCES OUT OF STATE AS REQUIRED BY THE PROJECT PLANTING PLAN.

EXISTING PLANT MATERIAL

- ALL EXISTING PLANT MATERIAL, TREES, OR LAWN TO REMAIN MUST BE PROTECTED AND MAINTAINED IN PLACE BY THE CONTRACTOR.
- 2. ANY DAMAGED MATERIAL MUST BE FULLY REPLACED TO MATCH EXISTING BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT AND OWNER.
- CONTRACTOR MUST MAINTAIN ANY EXISTING IRRIGATION SYSTEMS OR PROVIDE TEMPORARY IRRIGATION SYSTEMS AS REQUIRED TO ALL EXISTING PLANTING AREAS TO REMAIN.

SOILS

- THE CONTRACTOR MAY PROTECT AND STOCKPILE EXISTING SITE SOILS WHICH MAY BE REUSED FOR PLANTING PURPOSES. EXISTING SOILS SHALL BE TESTED PRIOR TO STOCKPILE FOR SOILS SUITABILITY PER THE REQUIREMENTS BELOW.
- ALL ORGANIC COMPOST SHALL HAVE AN AGRICULTURAL SUITABILITIES TEST FOR COMPATIBILITY TO EXISTING SITE SOILS. TEST RESULTS SHALL BE DATED WITHIN THE LAST 3 MONTHS OF THE SUBMITTAL.
- 4. ALL EXISTING SITE SOILS SHALL HAVE AN AGRICULTURAL SUITABILITIES TEST BY AN APPROVED SOILS TESTING LAB (WAYPOINT ANALYTICAL OR APPROVED EQUAL) AND ANALYSIS FOR RECOMMENDATIONS ON ORGANIC COMPOST, AMENDMENTS, GRO POWER FERTILIZER AND ANY INCIDENTALS. RECOMMENDATIONS CONTAINED IN THE SOILS ANALYSIS RESULTS ARE TO BE IMPLEMENTED BEFORE PLANTING OCCURS. CONTRACTOR SHALL PROVIDE UP TO 4 COMBINED TESTS AT LOCATIONS SELECTED BY THE LANDSCAPE ARCHITECT. SOIL SAMPLES TO BE TAKEN AND COMBINED FROM A DEPTH OF 6" AND 24". PROVIDE ADDITIONAL TESTING (ONE 6" AND ONE 24" DEPTH TEST PER 25,000 SF FOR AREAS WHICH WERE LIME TREATED). THE ORGANIC COMPOST TEST RESULTS LISTED ABOVE SHALL BE SUBMITTED TO THE SOILS LAB FOR ACCURATE RECOMMENDATIONS OF THE SOIL AMENDMENT REQUIREMENTS. TEST RESULTS SHALL BE TAKEN AFTER ALL GRADING OPERATIONS ARE COMPLETE.
- 5. ALL LIME TREATED SOILS IN AREAS TO RECEIVE PLANTING SHALL BE FULLY REMOVED AND REPLACED WITH CLEAN APPROVED IMPORT TOP SOIL AT NO COST TO THE OWNER. AN ADDITIONAL 8 SOILS TESTS MAY BE REQUESTED BY THE LANDSCAPE ARCHITECT. ALL TESTING SHALL BE PAID FOR BY THE CONTRACTOR.
- 6. ALL SOILS IMPORTED ONTO THE SITE FOR ANY PURPOSE SUCH AS GRADING, NON EXPANSIVE FILL. FILL. OR FOR ANY GENERAL PURPOSE MUST BE TESTED FOR PLANT SUITABILITY PRIOR TO PLACEMENT. ALL IMPORT SOILS SHALL BE NON-DETRIMENTAL TO PLANT MATERIAL AND SOILS ANALYSIS SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. PROVIDE 1 TEST PER 500 CY OF MATERIAL.
- 7. ALL IMPORT SOILS SHALL BE FREE OF DELETERIOUS MATERIALS, AGGREGATES, AND ROCK. IMPORT SOIL SHALL BE LOAM / CLAY LOAM WITH A PH BETWEEN 6 AND 7.5. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
- 8. FOR BID PURPOSES AMEND ALL SOIL WITH 6 YARDS OMRI COMPOST, 50LBS GYPSUM, 20LBS SOIL SULFUR AND 160LBS OF GRO-POWER PLUS 5-3-1 W/M PER 1000SF, CONTRACTOR TO SUBMIT ALL DELIVERY TICKETS FOR COMPOST AND FERTILIZERS FOR VERIFICATION.
- 9. SOIL IS TO BE AMENDED. AT THE RATE INDICATED BY THE SOIL ANALYSIS, TO BRING THE SOIL ORGANIC MATTER CONTENT TO A MINIMUM OF 3.5% BY DRY WEIGHT, AND A MINIMUM OF 2" OF QUALITY RECYCLED COMPOST, ON ALL PLANTING AREAS.
- 10. ALL PLANTERS IN AREAS WHICH HAVE BEEN COMPACTED. SUCH AS CONSTRUCTION STAGING AREAS AND IN PARKING LOTS, SHALL BE CROSS RIPPED TO THE FOLLOWING DEPTHS: PLANTERS LESS THAN THREE (3) FEET WIDE SHALL HAVE COMPACTION RELIEVED TO A MINIMUM DEPTH OF TWENTY-FOUR (24) INCHES BELOW SUBGRADE. PLANTERS THREE TO TEN (3-10) FEET WIDE MUST HAVE COMPACTION RELIEVED TO A MINIMUM DEPTH OF 18" BELOW SUBGRADE, PLANTERS MORE THAN 10' WIDE SHALL HAVE COMPACTION RELIEVED TO A MINIMUM DEPTH OF 12" BELOW SUBGRADE. AREAS SHALL BE PROTECTED AFTER DECOMPACTION.
- 11. CONTRACTOR SHALL PERFORM A PERCOLATION TEST AT THE BEGINNING OF CONSTRUCTION AT 1 LOCATION PER ACRE (MAX OF 4) TO DETERMINE THE DRAINAGE CAPACITY OF THE EXISTING SITE SOIL FOR TREE HEALTH. NOTIFY THE LANDSCAPE ARCHITECT IF DRAINAGE IS LESS THAN 2" PER HOUR.

TREES

- ALL TREES SHALL BE STANDARDS UNLESS SPECIFICALLY NOTED.
- ALL TREES ARE TO BE STAKED AS SHOWN ON THE TREE STAKING/GUYING DIAGRAMS. BRANCHING HEIGHT OF TREES SHALL BE A 6'-0" MINIMUM ABOVE FINISH GRADE. ALL TREES IN A FORMAL GROUP PLANTING MUST BE MATCHING IN SIZE AND SHAPE. ALL STREET TREES TO BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE OWNER. LANDSCAPE ARCHITECT SHALL BE CONSULTED REGARDING ORIENTATION OF TREES PRIOR TO PLANTING AND/OR BACKFILLING.
- PLANT TREES 3'-0" MINIMUM FROM FACE OF CURB AT PARKING, AND FROM EDGES OF PAVING. ALL TREES WITHIN 5' OF PAVING AREAS AND BUILDINGS MUST HAVE ROOT BARRIERS INSTALLED. SEE ROOT BARRIER DETAIL. 24" AND 36" ROOT BARRIER SHALL BE HIGH DENSITY AND HIGH IMPACT PLASTIC AS AVAILABLE FROM "DEEP ROOT", VESPRO, INC. OR EQUIVALENT AS APPROVED BY LANDSCAPE DIVISION OF PUBLIC WORKS DEPARTMENT. INSTALL PER MANUFACTURER'S SPECIFICATIONS. WHERE WATER BARRIERS AND ROOT BARRIERS ARE REQUIRED, USE CENTURY PRODUCTS DUAL PURPOSE WATER/ ROOT BARRIER CR-PE24-20, (714)632-7083, S.C.D. FOR LOCATIONS OF WATER BARRIER.
- 4. PROVIDE 4" BERM AROUND TREE FOR WATER BASIN. SEE TREE STAKING DETAIL. BERM TO BE REMOVED IN LAWN AREA AFTER INITIAL MAINTENANCE PERIOD. MULCH TREE WELL WITH 3" LAYER OF RECYCLED CHIPPED MULCH. KEEP MULCH AWAY FROM TREE TRUNK. HOLD LAWN AND HYDROSEED 2' CLEAR FROM TRUNKS, TYP.
- TREES MUST HAVE AN UNCUT LEADER THAT HAS A UNIFORM TAPER FROM BASE TO TIP. TREES MUST MEET AT LEAST NORMAL CALIPER AND HEIGHT FOR CONTAINER SIZE. OVERGROWN OR ROOT BOUND TREES ARE NOT ACCEPTABLE.
- FOR ALL TREES IN STORMWATER INFILTRATION ZONES HOLD FG OF ROOTBALL 4" ABOVE FG OF FLOWLINE. ADJUST ADJACENT GRADE OF SOIL TO BLEND UNIFORMLY AROUND ROOTBALL AND ALLOW UNIMPEDED FLOW OF WATER.

SHRUBS, GROUNDCOVERS

- GROUNDCOVER MUST BE PLANTED AS SHOWN ON THE PLAN, INCLUDING UNDER SHRUBS AND IN TREE WATERING BASINS.
- 2. SHRUBS AND PERENNIALS MUST HAVE ADEQUATE SETBACK FROM THE ADJACENT SIDEWALK AND EDGES OF PARKING LOT CURBS. NOTIFY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION IF PLANT MATERIAL MAY PROTRUDE INTO THE PATH OF TRAVEL.

ACCESSORIES

- ALL ASPHALT AND DECOMPOSED GRANITE AREAS TO BE COMPLETELY SURROUNDED BY HEADERS OR ADJACENT CONCRETE WORK.
- ALL PLANTING AREAS MUST BE TOP-DRESSED WITH 3" LAYER OF RECYCLED CHIPPED MULCH. COLOR: BROWN. SUBMIT SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO ORDERING.
- ALL MULCH WITHIN STORMWATER PLANTING AREAS MUST BE 3" OF WASHED PEA GRAVEL. SUBMIT SAMPLE FOR REVIEW AND APPROVAL.
- 4. ALL STORMWATER CURB CUTS MUST BE REINFORCED WITH A MINIMUM 12" WIDE X18" LONG X 6" DEEP BAND OF COBBLE. COBBLE SHALL BE 40% 4"-6" AND 60% 2"-3" NOIYO COBBLE. PROVIDE 24" WIDE BY 6" DEPTH OF COBBLE AROUND ALL CATCH BASINS LOCATED IN DRAINAGE AREAS. SUBMIT SAMPLE FOR REVIEW AND APPROVAL
- 5. ALL SLOPES GREATER THAN 2.5:1 MUST BE COVERED WITH EROSION CONTROL NETTING PER THE MANUFACTURER'S SPECIFICATIONS, OVERLAP ALL EDGES A MINIMUM OF 12" AND SECURE AS REQUIRED WITH METAL STAPLES. EROSION CONTROL NETTING TO BE WESTERN EXCELSIOR, EXCEL CS-3 OR APPROVED EQUAL.AVAILABLE FROM REED & GRAHAM 888-381-0800.
- 6. SEE SPECIFICATIONS FOR ALL FERTILIZER REQUIREMENTS

SUBMITTALS

- CONTRACTOR MUST SUBMIT ALL TESTS, PRODUCTS, ACCESSORIES, INCIDENTALS, CUT SHEETS OF ALL ITEMS SPECIFIED FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- 2. ALL PLANT MATERIAL MUST BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO DELIVERY, CONTRACTOR SHALL SUBMIT PHOTOS OF ALL SHRUBS, GROUND COVERS, AND TREES FOR PRELIMINARY REVIEW AND APPROVAL.
- ALL SUBMITTALS AND PLANT MATERIAL NOT REVIEWED AND APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT MAY BE SUBJECT TO FULL REMOVAL AND REPLACEMENT WITH APPROVED SOILS, FERTILIZERS, AND PLANT MATERIAL AT NO ADDITIONAL COST TO THE CONTRACT OR OWNER.
- SUBMITTALS AND SITE MOCKUPS OF ALL WORK SHALL BE REQUIRED PRIOR TO FINAL PLACEMENT INCLUDING BUT NOT LIMITED TO ALL WALLS, PAVEMENTS, COLORS, FINISHES, METAL WORK, FENCING, AND PAINTING FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT. SEE SPECIFICATIONS.

PLANTING SCHEDULE

TREES	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	SPACING	QTY
ACB	ACER BUERGERIANUM	TRIDENT MAPLE	24"B0X	L	AS SHOWN	10
CER	CERCIS OCCIDENTALIS	WESTERN REDBUD	24"BOX	VL	AS SHOWN	23
0ES	OLEA EUROPAEA 'SWAN HILL'	SWAN HILL FRUITLESS OLIVE	24"B0X	VL	AS SHOWN	4
PIC	PISTACIA CHINENSIS	CHINESE PISTACHE	24"B0X	L	AS SHOWN	5
QUL	QUERCUS LOBATA	VALLEY OAK	24"B0X	VL	AS SHOWN	7
ULM	ULMUS CARPINIFOLIA X PARVIFOLIA 'FRONTIER'	FRONTIER ELM	24"B0X	L	AS SHOWN	16
SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	SPACING	QTY
AE	ARCTOSTAPHYLOS X 'EMERALD CARPET'	EMERALD CARPET MANZANITA	1 GAL	L	72" o.c.	21
BP	BACCHARIS PILULARIS 'TWIN PEAKS'	DWARF COYOTE BRUSH	1 GAL	L	72" o.c.	93
CS	CALANDRINIA SPECTABILIS 'SHINING PINK'	SHINING PINK CALANDRINIA	1 GAL	L	36" o.c.	34
СТ	CHONDROPETALUM TECTORUM 'EL CAMPO'	SMALL CAPE RUSH	5 GAL	L	54" o.c.	299
СС	CORREA X 'CARMINE BELLS'	CARMINE BELLS AUSTRALIAN FUCHSIA	1 GAL	L	72" o.c.	46
FM	FESTUCA MAIREI	ATLAS FESCUE	1 GAL	L	36" o.c.	61
GL	GREVILLEA LANIGERA 'COASTAL GEM'	COASTAL GEM GREVILLEA	1 GAL	L	48" o.c.	27
НА	HELENIUM AUTUMNALE	SNEEZEWEED	1 GAL	М	36" o.c.	27
HP	HESPERALOE PARVIFLORA 'PERPA'	BRAKELIGHTS®RED YUCCA	5 GAL	L	36" o.c.	10
LR	LANTANA CAMARA 'LANZOOO1'	BANDANA®ROSE IMPROVED LANTANA	1 GAL	L	48" o.c.	149
LS	LEUCADENDRON SALIGNUM 'WINTER RED'	WINTER RED CONEBUSH	5 GAL	L	48" o.c.	25
MA	MIMULUS AURANTIACUS	BUSH MONKEYFLOWER	1 GAL	L	48" o.c.	69
MD	MUHLENBERGIA DUBIA	PINE MUHLY	1 GAL	L	48" o.c.	59
NW	NEPETA X 'WALKER'S LOW'	WALKER'S LOW CATMINT	1 GAL	L	36" o.c.	31
RC	RHAMNUS CALIFORNICA 'MOUND SAN BRUNO'	MOUND SAN BRUNO COFFEEBERRY	1 GAL	L	48" o.c.	39
SL	SALVIA LEUCANTHA 'SANTA BARBARA'	MEXICAN BUSH SAGE	5 GAL	L	48" o.c.	66
SH	SALVIA MICROPHYLLA 'HOT LIPS'	HOT LIPS GRAHAM SAGE	5 GAL	L	60" o.c.	15
TC	TEUCRIUM CHAMAEDRYS	GERMANDER	1 GAL	L	36" o.c.	65
	1				The Vision of the last of the	

MORNING LIGHT COAST ROSEMARY

WATER USE RATING LEGEND:

WUCOLS IV CATEGORIES OF WATER NEEDS FROM: UNIVERSITY OF CALIF COOPERATIVE EXTENSION. CALIF DEPARTMENT OF WATER RESOURCES, U.S. BUREAU OF RECLAMATION

WESTRINGIA FRUTICOSA 'MORNING LIGHT

- H = HIGHM = MODERATE
- L = LOWVL = VERY LOW

"I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN."

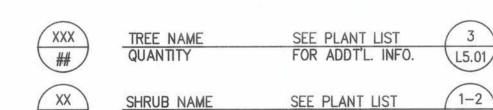
GAL

SIGNATURE

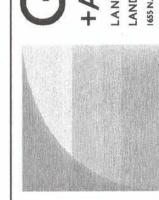
AUGUST 30, 2023 DATE

60" o.c. 11

PLANTING LEGEND







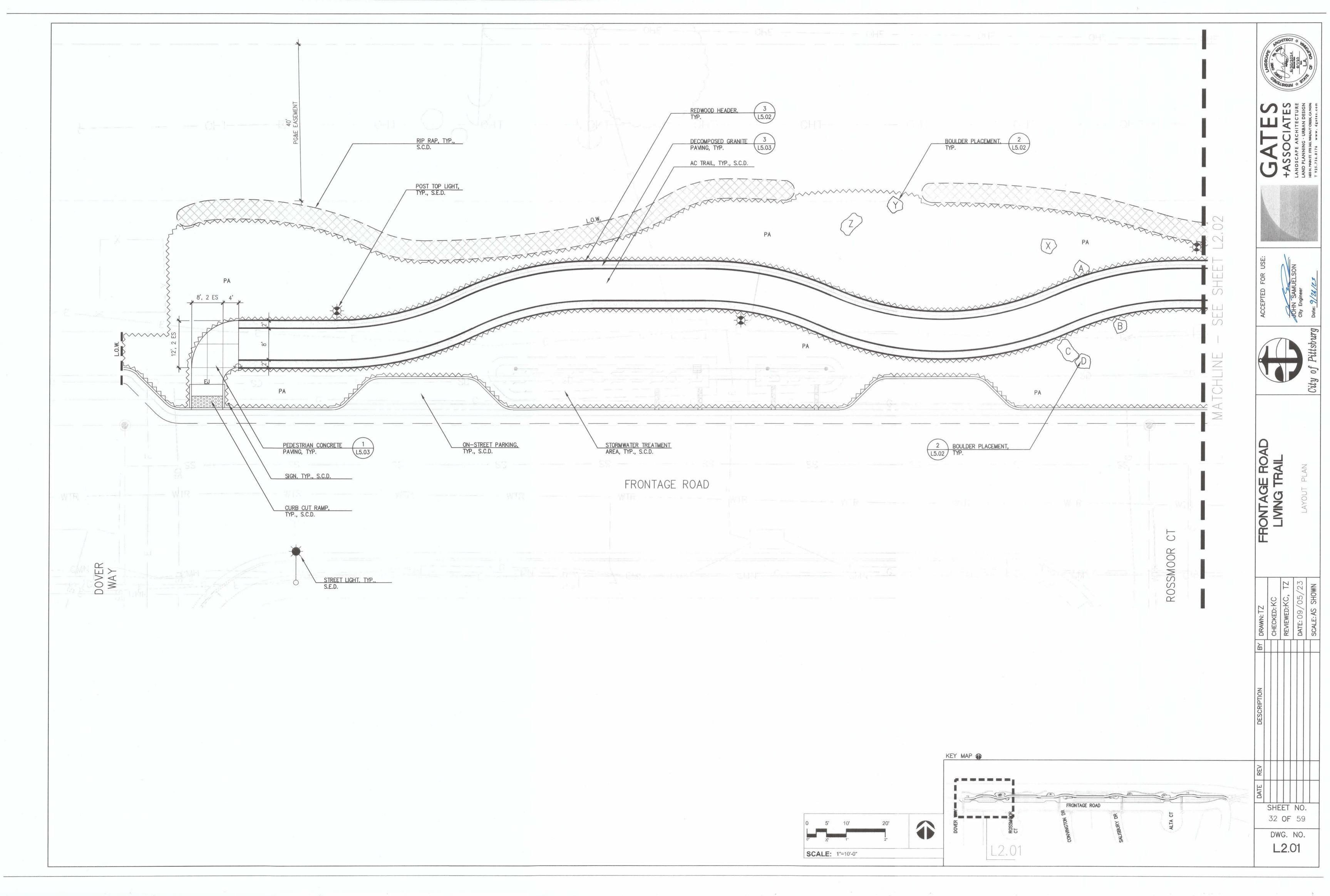


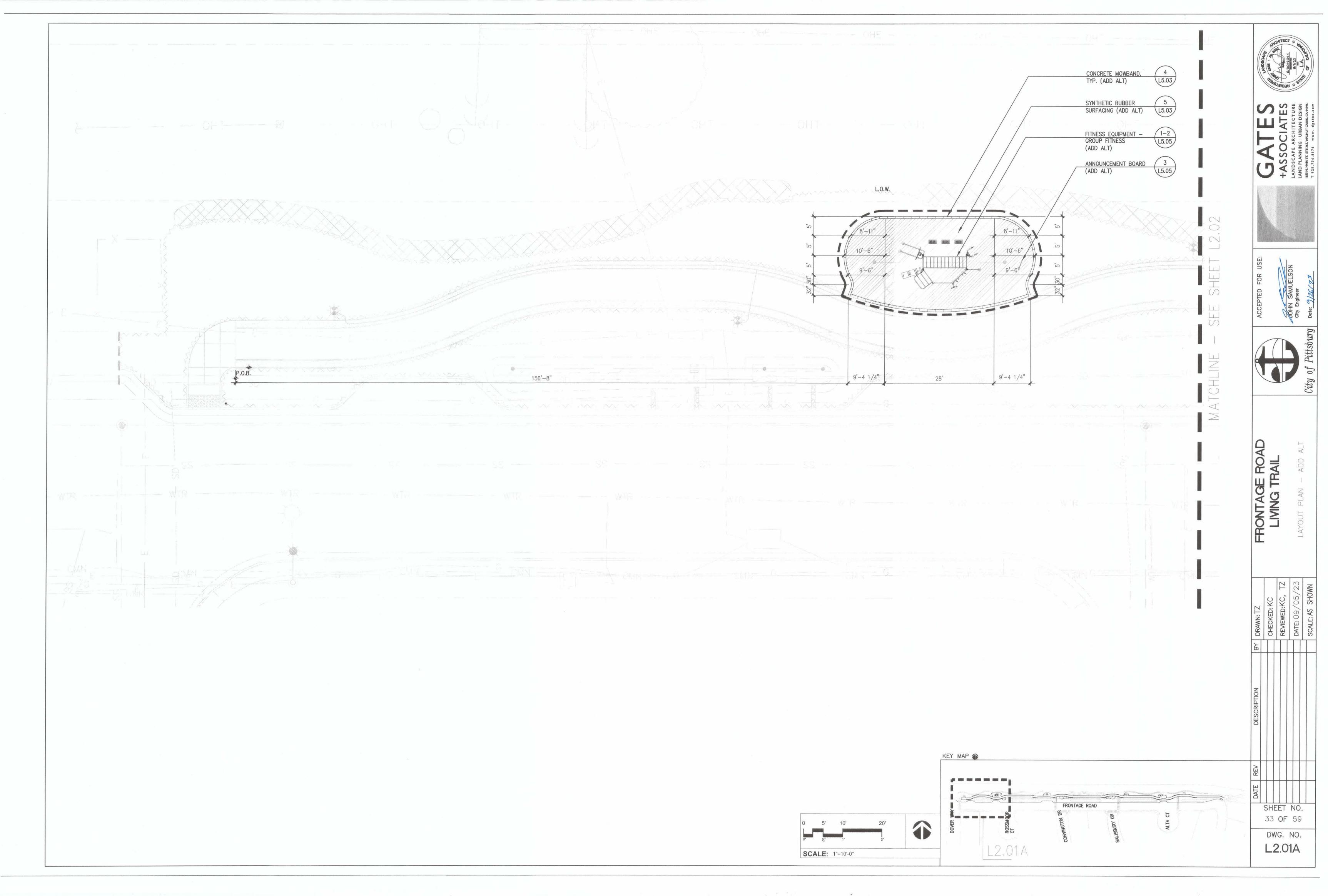


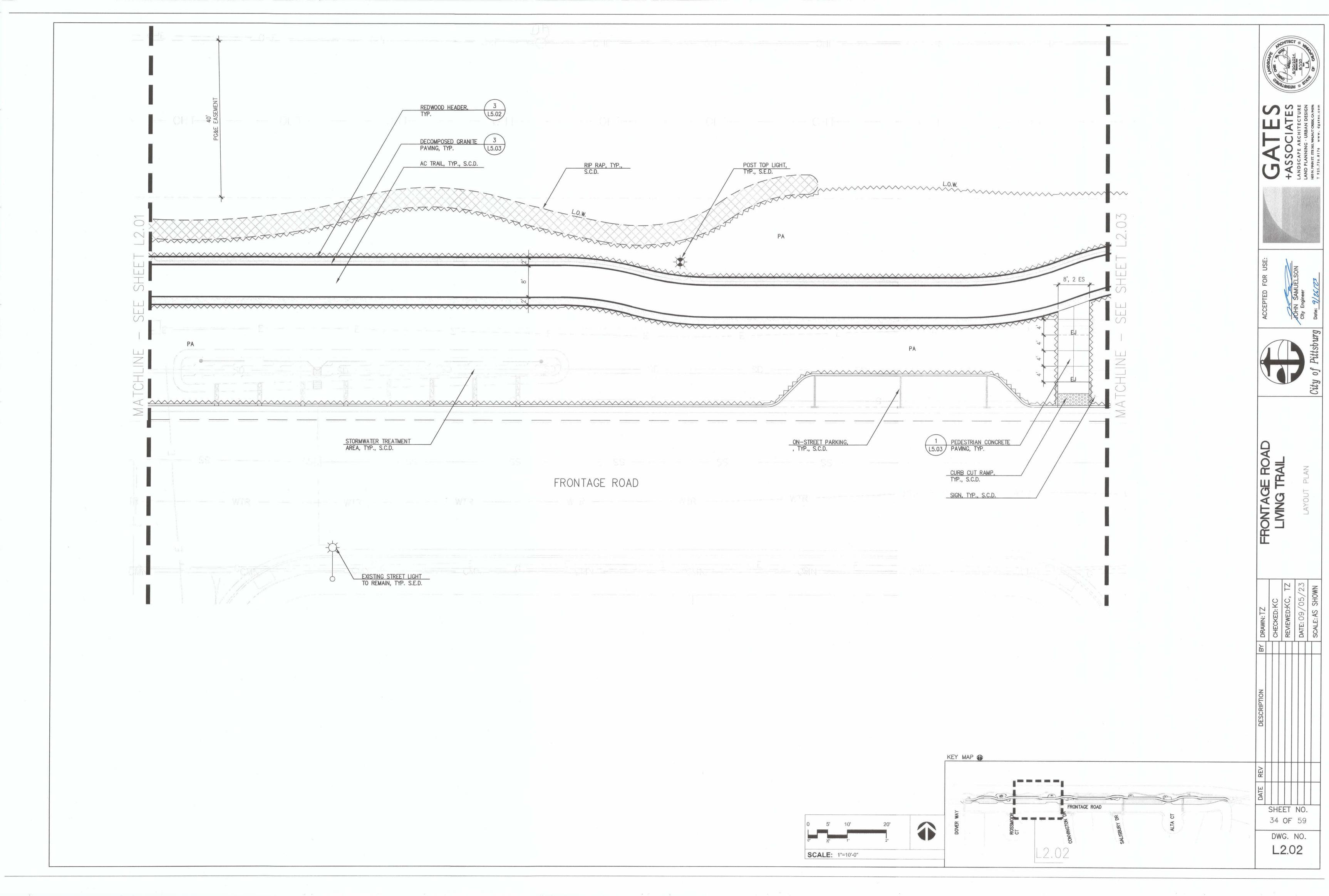
HONTAGE ROLLINING TRAIL

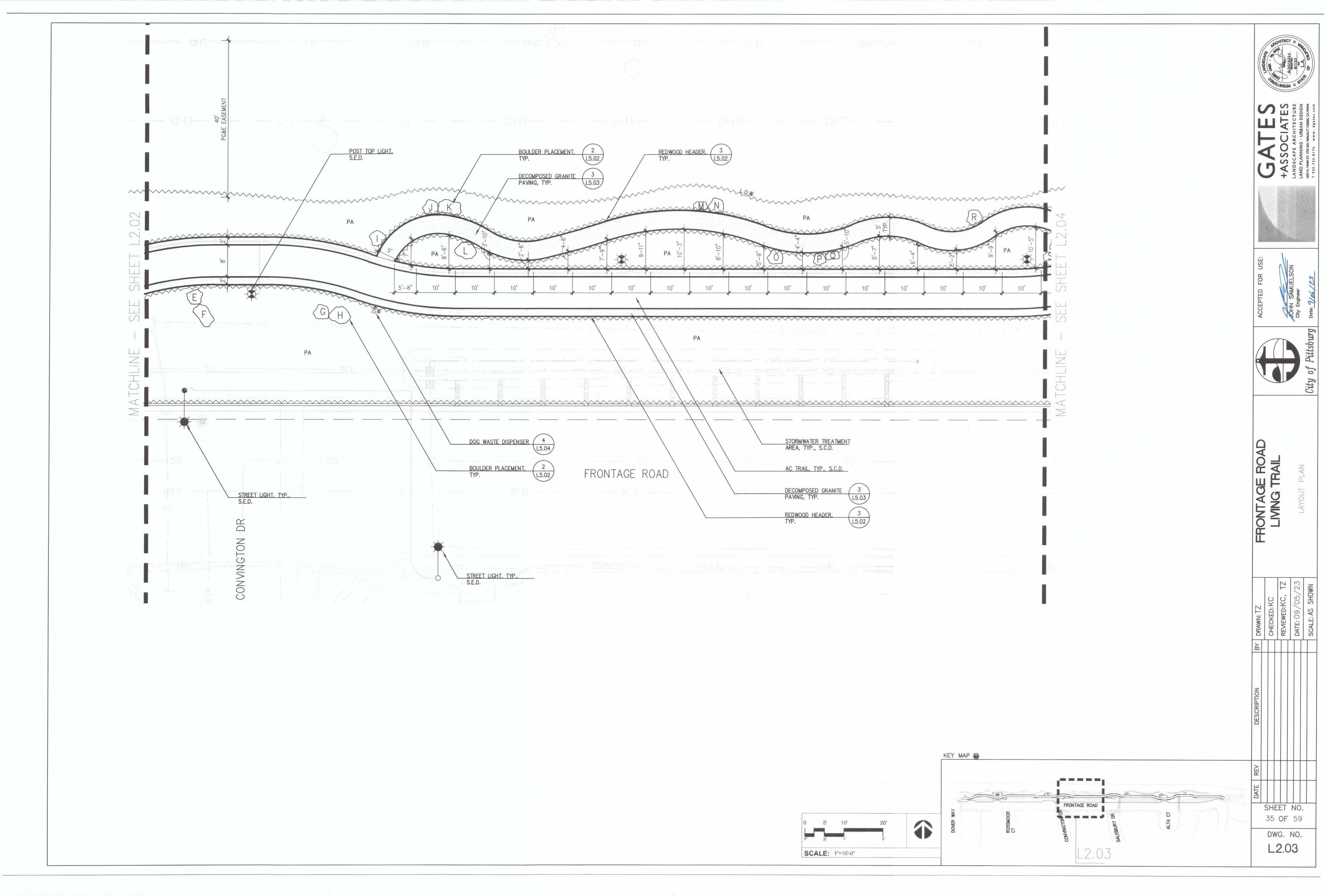
SHEET NO. 31 **OF** 59

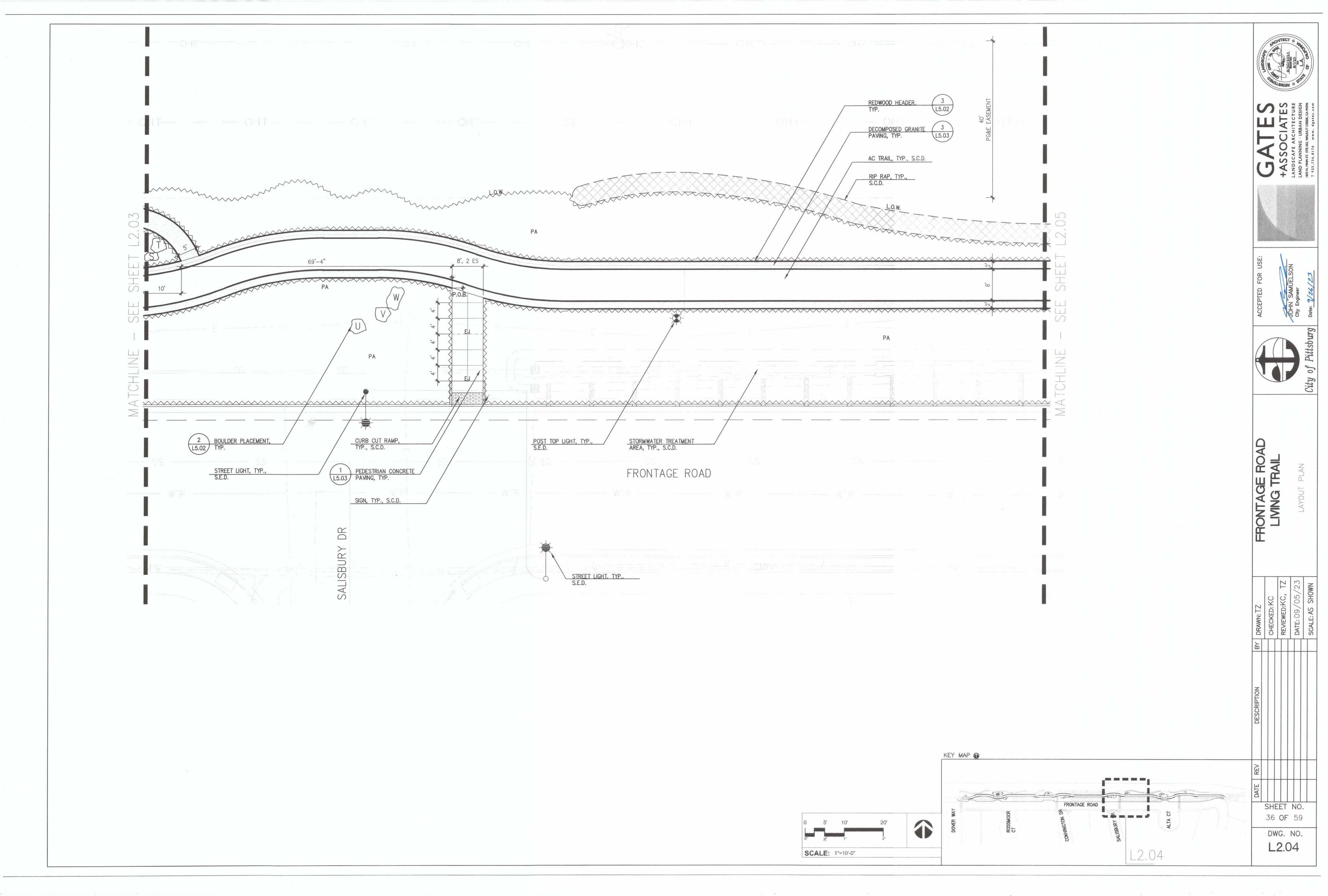
DWG. NO. L1.02

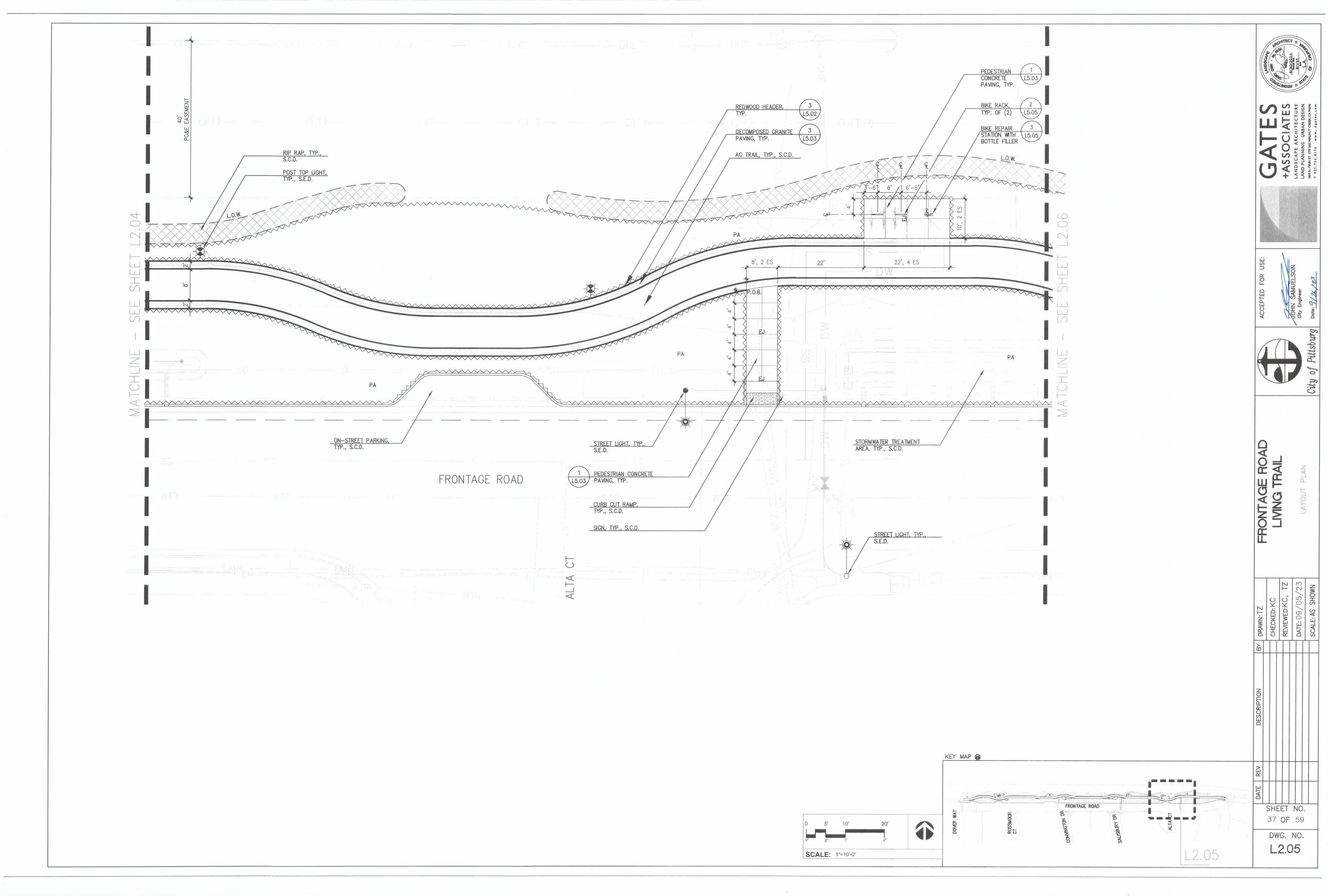


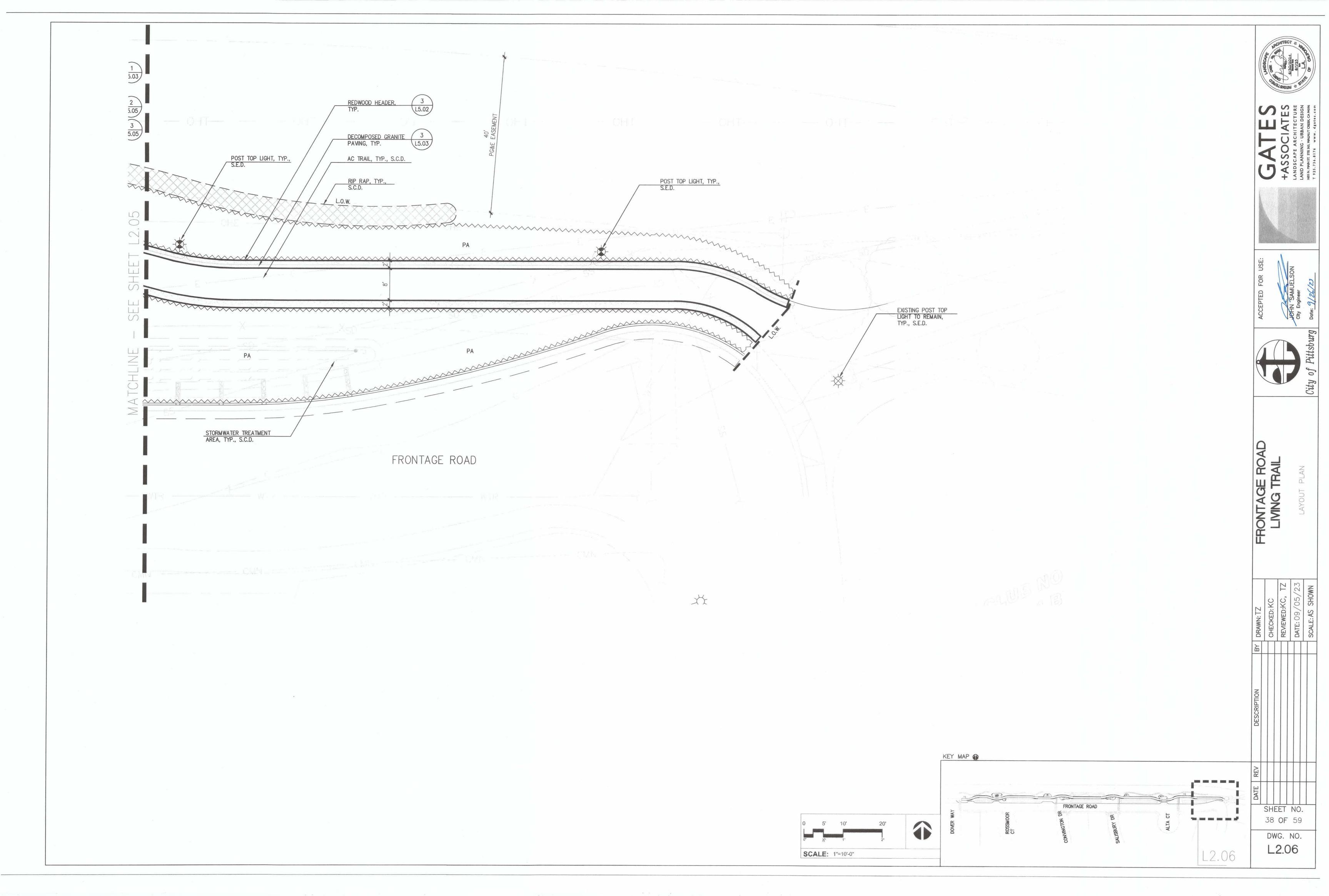


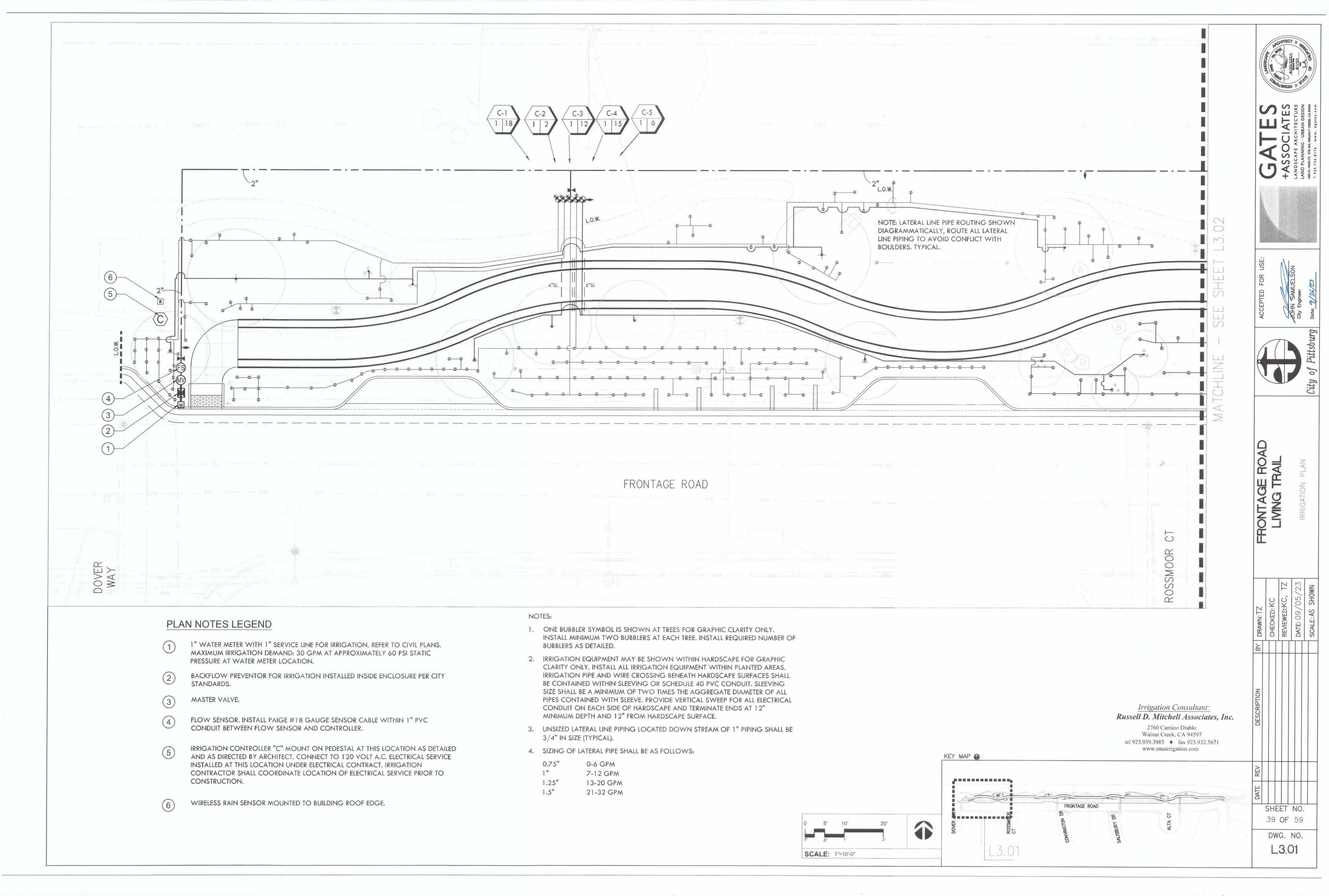


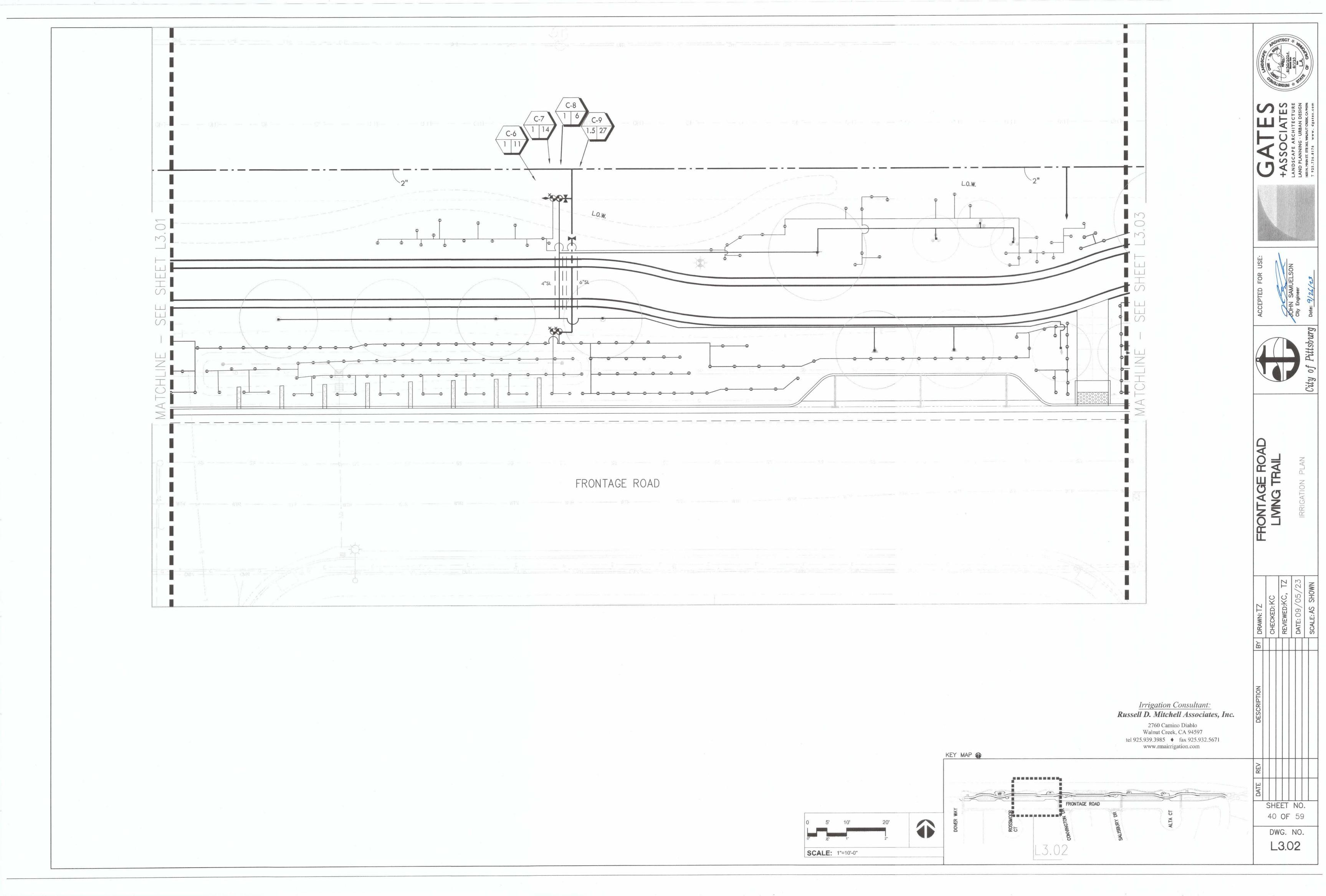


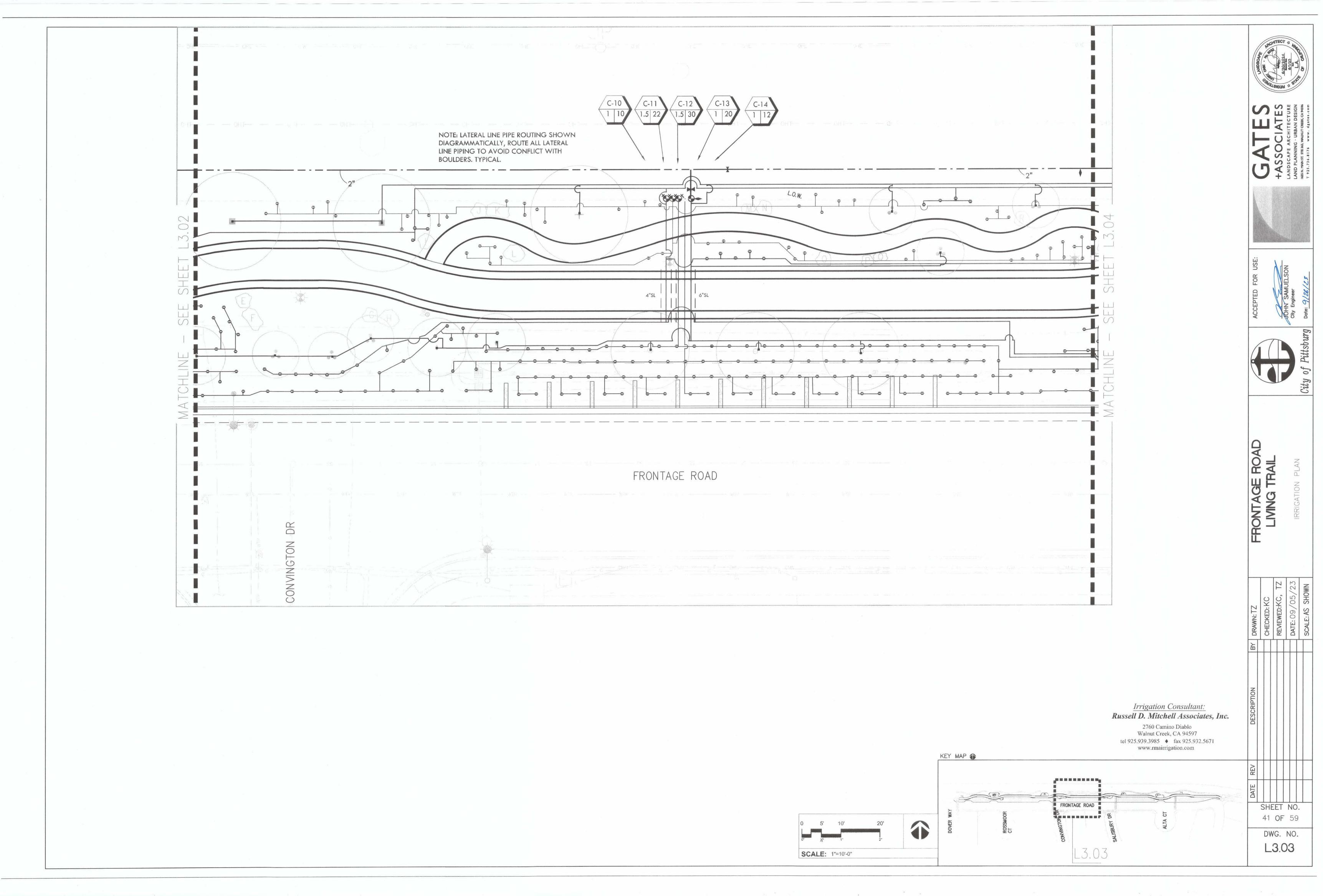


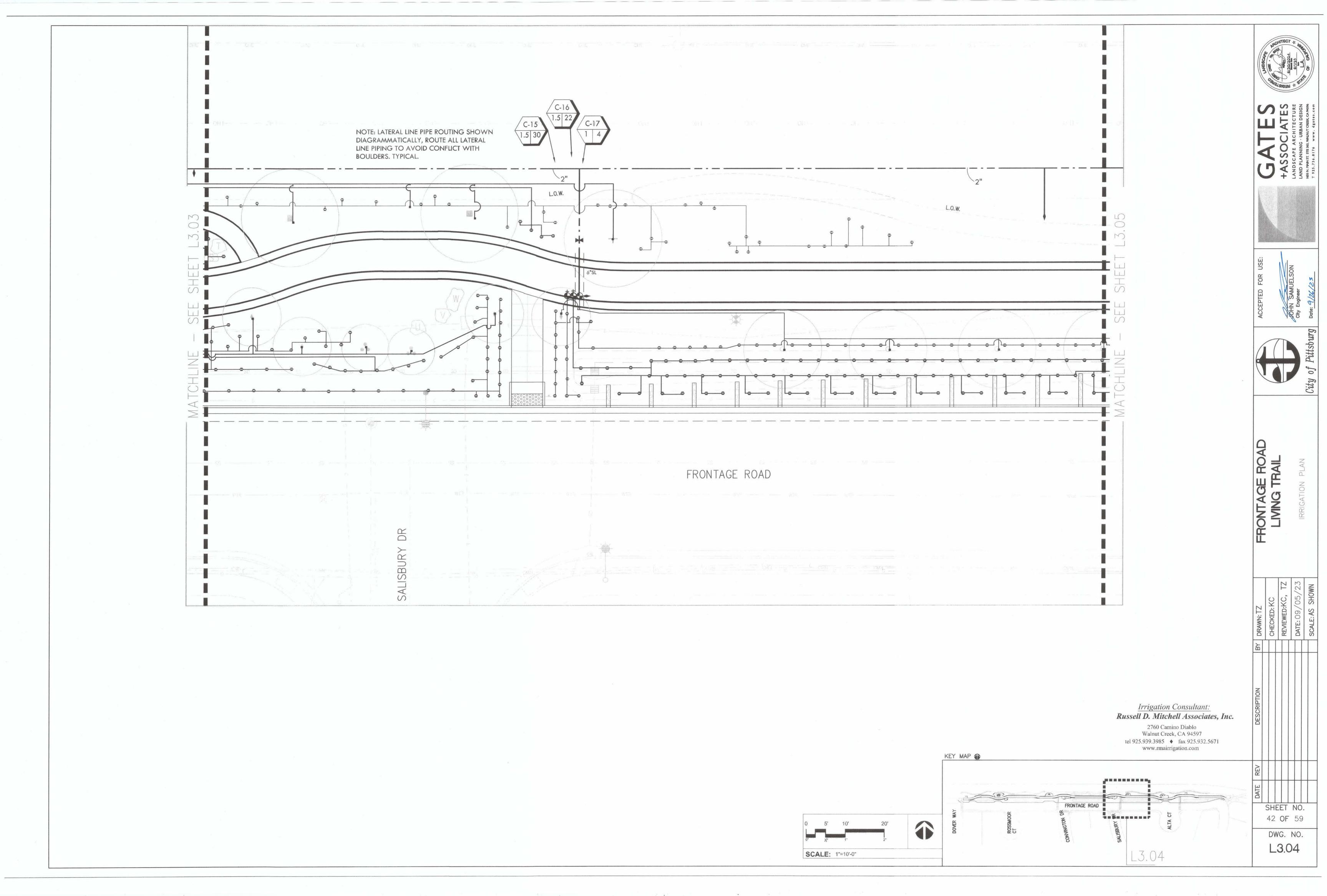


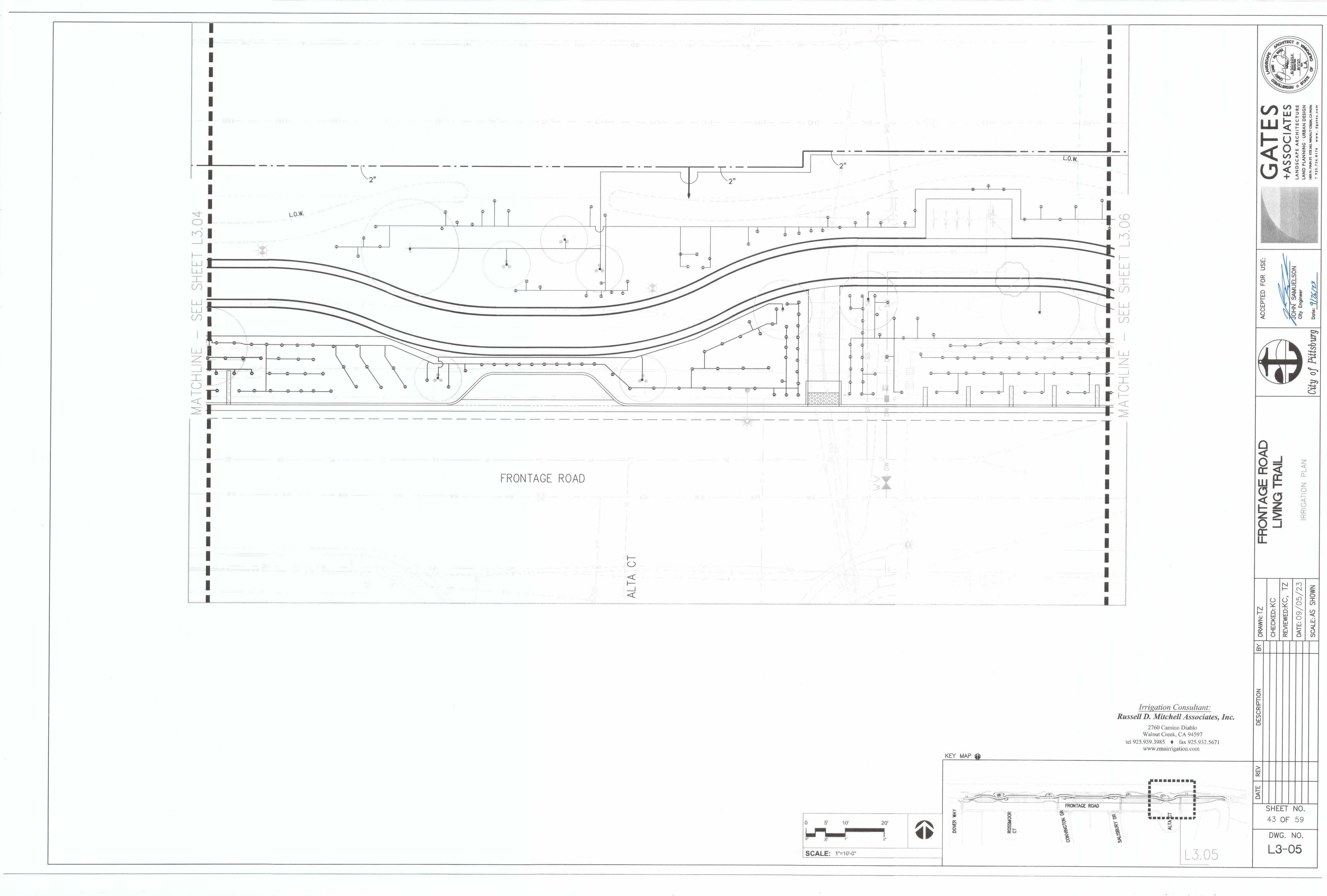


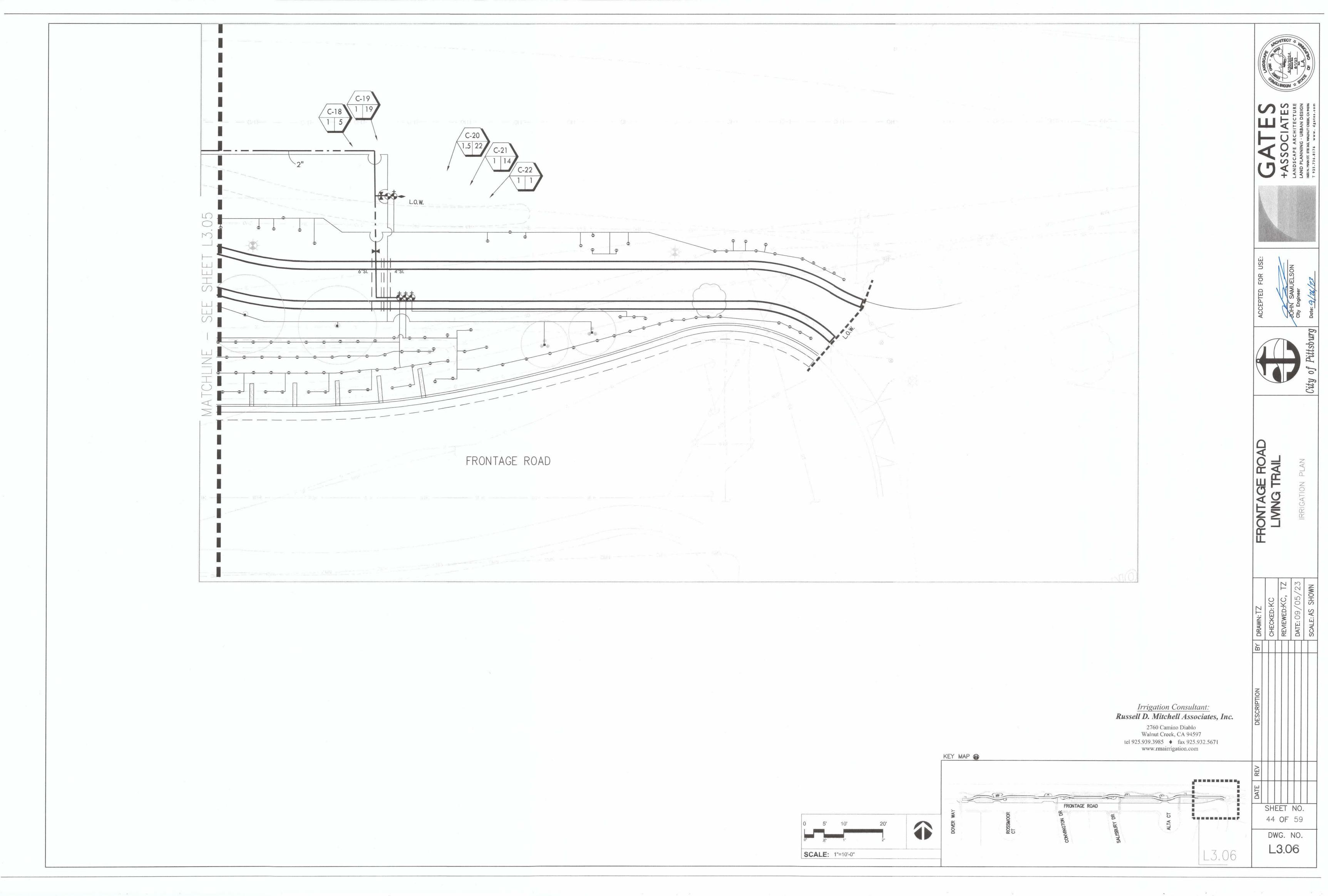












IRRIGATION NOTES

- 1. THESE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS MAY BE SHOWN WITHIN PAVED AREAS FOR GRAPHIC CLARITY ONLY AND ARE TO BE INSTALLED WITHIN PLANTING AREAS. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, CONDUIT, AND OTHER ITEMS WHICH MAY BE REQUIRED. INVESTIGATE THE STRUCTURAL AND FINISHED CONDITION AFFECTING THE CONTRACT WORK INCLUDING OBSTRUCTIONS, GRADE DIFFERENCES OR AREA DIMENSIONAL DIFFERENCES. IN THE EVENT OF FIELD DISCREPANCY WITH CONTRACT DOCUMENTS, PLAN THE INSTALLATION WORK ACCORDINGLY BY NOTIFICATION AND APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE AND ACCORDING TO THE CONTRACT SPECIFICATIONS. NOTIFY AND COORDINATE IRRIGATION CONTRACT WORK WITH APPLICABLE CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE, CONDUIT OR SLEEVES THROUGH OR UNDER WALLS, ROADWAYS, PAVING AND STRUCTURES BEFORE CONSTRUCTION. IN THE EVENT THESE NOTIFICATIONS ARE NOT PERFORMED, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR REQUIRED REVISIONS.
- 2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL ELECTRIC CODE; THE UNIFORM PLUMBING CODE, PUBLISHED BY THE WESTERN PLUMBING OFFICIALS ASSOCIATION; AND OTHER STATE OR LOCAL LAWS OR REGULATIONS. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR REGULATIONS. THE CONTRACTOR SHALL FURNISH WITHOUT ANY EXTRA CHARGE, ANY ADDITIONAL MATERIAL AND LABOR WHEN REQUIRED BY THE COMPLIANCE WITH THESE CODES AND REGULATIONS.
- 3. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH LAYOUT AND INSTALLATION OF THE PLANT MATERIALS TO INSURE THAT THERE WILL BE COMPLETE AND UNIFORM IRRIGATION COVERAGE OF PLANTING IN ACCORDANCE WITH THESE DRAWINGS, AND CONTRACT DOCUMENTS. THE IRRIGATION LAYOUT SHALL BE CHECKED BY THE CONTRACTOR AND OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO CONSTRUCTION TO DETERMINE IF ANY CHANGES, DELETIONS, OR ADDITIONS ARE REQUIRED. IRRIGATION SYSTEM SHALL BE INSTALLED AND TESTED PRIOR TO INSTALLATION OF PLANT MATERIAL.
- 4. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH.
- 5. IT IS THE RESPONSIBILITY OF THE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLER(S) TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL WEATHER CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS, SLOPES, SUN, SHADE AND WIND EXPOSURE.
- 6. IT IS THE RESPONSIBILITY OF A LICENSED ELECTRICAL CONTRACTOR TO PROVIDE 120 VOLT A.C. (2.5 AMP DEMAND PER CONTROLLER) ELECTRICAL SERVICE TO THE CONTROLLER LOCATION(S). IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO COORDINATE THE ELECTRICAL SERVICE STUB-OUT TO THE CONTROLLER(S). PROVIDE PROPER GROUNDING PER CONTROLLER MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH LOCAL CODES.
- 7. PROVIDE EACH CONTROLLER WITH ITS OWN GROUND ROD. SEPARATE THE GROUND RODS BY A MINIMUM OF EIGHT FEET. THE GROUND ROD SHALL BE AN EIGHT FOOT LONG BY 5/8" DIAMETER U.L. APPROVED COPPER CLAD ROD. INSTALL NO MORE THAN 6" OF THE GROUND ROD ABOVE FINISH GRADE. CONNECT #6 GAUGE WIRE WITH A U.L. APPROVED GROUND ROD CLAMP TO ROD AND BACK TO GROUND SCREW AT BASE OF CONTROLLER WITH APPROPRIATE CONNECTOR. MAKE THIS WIRE AS SHORT AS POSSIBLE, AVOIDING KINKS OR BENDING.
- 8. SCHEDULE A MEETING WHICH INCLUDES REPRESENTATIVES OF THE IRRIGATION CONTROLLER MANUFACTURER, THE MAINTENANCE CONTRACTOR, THE OWNER AND THE IRRIGATION CONTRACTOR AT THE SITE FOR INSTRUCTION ON THE PROPER PROGRAMMING AND OPERATION OF THE IRRIGATION CONTROLLER.
- INSTALL 3" DETECTABLE TAPE ABOVE ALL PRESSURIZED MAIN LINES AS DETAILED. USE CHRISTY #TA-DT-3-BIRR FOR POTABLE IRRIGATION SYSTEMS.
- 10. PROVIDE EACH IRRIGATION CONTROLLER WITH ITS OWN INDEPENDENT LOW VOLTAGE COMMON GROUND WIRE.

- 11. IRRIGATION CONTROL WIRES: SOLID COPPER WITH U.L. APPROVAL FOR DIRECT BURIAL IN GROUND. COMMON GROUND WIRE: SIZE #12-1 WIRE WITH A WHITE INSULATING JACKET. CONTROL WIRE SERVICING REMOTE CONTROL VALVES: SIZE #14-1 WIRE WITH INSULATING JACKET OF COLOR OTHER THAN WHITE. SPLICES SHALL BE MADE WITH 3M-DBY SEAL PACKS OR APPROVED EQUAL.
- 12. INSTALL TWO SPARE CONTROL WIRES OF A DIFFERENT COLOR ALONG THE ENTIRE MAIN LINE. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES.
- 13. SPLICING OF LOW VOLTAGE WIRES IS PERMITTED IN VALVE BOXES ONLY. LEAVE A 36" LONG, 1" DIAMETER COIL OF EXCESS WIRE AT EACH SPLICE AND A 36" LONG EXPANSION LOOP EVERY 100 FEET ALONG WIRE RUN. TAPE WIRES TOGETHER EVERY TEN FEET. DO NOT TAPE WIRES TOGETHER WHERE CONTAINED WITHIN SLEE
- 14. INSTALL GREEN PLASTIC VALVE BOXES WITH BOLT DOWN, NON HINGED COVER MARKED "IRRIGATION CONTROL VALVE". BOX BODY SHALL HAVE KNOCK OUTS. ACCEPTABLE VALVE BOX MANUFACTURER'S INCLUDE NDS, CARSON OR APPROVED EQUAL.
- 15. INSTALL REMOTE CONTROL VALVE BOXES 12" FROM WALK, CURB, BUILDING OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, INSTALL EACH BOX AN EQUAL DISTANCE FROM THE WALK, CURB, BUILDING OR LANDSCAPE FEATURE AND PROVIDE 12" BETWEEN BOX TOPS. ALIGN THE SHORT SIDE OF RECTANGULAR VALVE BOXES PARALLEL TO WALK, CURB, BUILDING OR LANDSCAPE FEATURE.
- 16. VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN GROUND COVER/SHRUB AREAS (AVOID LAWN AREAS WHERE POSSIBLE).
- 17. THE CONTRACTOR SHALL LABEL CONTROL LINE WIRE AT EACH REMOTE CONTROL VALVE WITH A 2 1/4" X 2 3/4" POLYURETHANE I.D. TAG, INDICATING IDENTIFICATION NUMBER OF VALVE (CONTROLLER AND STATION NUMBER). ATTACH LABEL TO CONTROL WIRE. THE CONTRACTOR SHALL PERMANENTLY STAMP ALL VALVE BOX LIDS WITH APPROPRIATE IDENTIFICATION AS NOTED IN CONSTRUCTION DETAILS.
- 18. FLUSH AND ADJUST IRRIGATION OUTLETS AND NOZZLES FOR OPTIMUM PERFORMANCE AND TO PREVENT OVER SPRAY ONTO WALKS, ROADWAYS, AND/OR BUILDINGS. SELECT THE BEST DEGREE OF THE ARC AND RADIUS TO FIT THE EXISTING SITE CONDITIONS AND THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH CONTROL ZONE.
- 19. LOCATE BUBBLERS ON UPHILL SIDE OF PLANT OR TREE.
- 20. INSTALL A HUNTER HCV SERIES, KBI CV SERIES, OR APPROVED EQUAL SPRING LOADED CHECK VALVE IN SPRINKLER RISER ASSEMBLIES WHERE LOW OUTLET DRAINAGE WILL CAUSE EROSION AND/OR EXCESS WATER.
- 21. WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, USE CAUTION TO AVOID INJURY TO TREES AND TREE ROOTS. EXCAVATE BY HAND IN AREAS WHERE TWO (2) INCH AND LARGER ROOTS OCCUR. BACK FILL TRENCHES ADJACENT TO TREE WITHIN TWENTY-FOUR (24) HOURS. WHERE THIS IS NOT POSSIBLE, SHADE THE SIDE OF THE TRENCH ADJACENT TO THE TREE WITH WET BURLAP OR CANVAS.
- 22. NOTIFY LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.
- 23. THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.
- 24. IRRIGATION DEMAND: REFER TO PLANS.
- 25. THE EXISTING MAIN LINE SHOWN ON THE DRAWINGS IS DIAGRAMMATIC. VERIFY AND LOCATE EXISTING MAIN LINE IN FIELD. REPORT TO ARCHITECT IN WRITING ANY DEVIATION OF EXISTING MAIN LINE LOCATION FROM THAT SHOWN ON THE DRAWINGS.
- 28. PIPE SIZING SHOWN ON THE DRAWINGS IS TYPICAL. AS CHANGES IN LAYOUT OCCUR DURING STAKING AND CONSTRUCTION THE SIZE MAY NEED TO BE ADJUSTED ACCORDINGLY.

- 29. PIPE THREAD SEALANT COMPOUND SHALL BE RECTOR SEAL #5.
- 30. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MINOR CHANGES IN THE IRRIGATION LAYOUT DUE TO OBSTRUCTIONS NOT SHOWN ON THE IRRIGATION DRAWINGS SUCH AS LIGHTS, FIRE HYDRANTS, SIGNS, ELECTRICAL ENCLOSURES, ETC.
- 31. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR CHANGES IN THE IRRIGATION LAYOUT AND VALVE ZONING DUE TO VARIATIONS IN THE EXISTING SITE CONDITIONS SUCH AS EXPOSURE FROM BUILDINGS, TRELLISES, TREES, ETC., AS WELL AS SLOPE AND SOIL CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT OF THE PROPOSED CHANGES PRIOR TO INSTALLATION FOR APPROVAL.
- 32. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING THE IRRIGATION SYSTEM DESIGN IF THE PLANTING DESIGN CHANGES FROM THE ORIGINAL PLAN AND NEEDS TO ADAPT TO THE NEW PLANTING DESIGN. THE LANDSCAPE CONTRACTOR NEEDS TO NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT OF PROPOSED CHANGES PRIOR TO INSTALLATION FOR APPROVAL.
- 33. WHEN WORK OF THIS SECTION HAS BEEN COMPLETED AND SUCH OTHER TIMES AS MAY BE DIRECTED, REMOVE ALL TRASH, DEBRIS, SURPLUS MATERIALS AND EQUIPMENT FROM SITE.
- 34. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLEMENTAL HAND WATERING OF ALL PLANT MATERIAL WITHIN DRIPLINE AREAS UNTIL THE PLANTS ARE SUFFICIENTLY ESTABLISHED.
- 35. VERIFY LOCATIONS OF ALL IRRIGATION COMPONENTS INSTALLED WITHIN A VALVE BOX WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. DO NOT INSTALL UNTIL LANDSCAPE ARCHITECT PROVIDES ACCEPTABLE LOCATIONS.

IRRIGATION LEGEND

SYMBOL	MODEL NUMBER	DESCRIPTION		NOZZLE GPM	OPERATING PSI	OPERATING RADIUS (FEET
♠	1401	RAINBIRD BUBBLER, SHRUB	, 1 PER	0.25	30	TRICKLE
* 1	1401	RAINBIRD BUBBLER TREES IN SHRUB AR 2 PER TREE		0.25	30	TRICKLE
•+	WLT-0500-T	NDS SCH 40 BALL	VALVE OR A	APPROVED E	QUAL	
•	OPERIND	RAIN BIRD DRIP ZO	NE INDICA	TOR		
*	33-DRC	RAIN BIRD 3/4" TW (YELLOW LOCKING			ING VALVE	
H	T113-K SERIES	NIBCO BRASS GAT	E VALVE (LI	NE SIZE)-2.5	" and smaller	
FS	FSI-T15-001	CST 1.5" TEE MOUN	NTED FLOW	SENSOR (2	2-100 GPM)	
MV	PESB-2"	RAINBIRD MASTER	VALVE - 2"	(NORMALLY	CLOSED)	
•	PESB-R SERIES	rain bird remote	CONTROL	VALVE WITH	SCRUBBER ME	CHANISM
(C)	SA6-RM6-24 DXICA WRS GR-K	RAINMASTER DXI 2 BY SITE ONE GREEN CELLULAR COMMU	N TECH IN S	STAINLESS ST	EEL ENCLOSURI	E; INCLUDES
R	RS-1000	IRRITROL WIRELESS	RAIN SEN	SOR		
X	975XL2SEU-1.5"/ BPDI/PBB-20	WILKINS REDUCED GAURDSHACK PAI FREEZE BLANKET.				
/ •-		— CONTROLLER AN	d Station	NUMBER		
1	7	— FLOW (GPM)				
/		REMOTE CONTRO			S)	
		CONTROLLER ANI	DSIATION	NUMBER		
•	•	— AREA (SQ. FT.) — FLOW (GPM)				
		REMOTE CONTRO	L VALVE SI	ZE (IN INCHE	(S)	
<u> </u>		— ASSOCIATED REM			-1	
		MAIN LINE:	WITH SCH FITTINGS. PVC WITH	HEDULE 80 PY 2" AND SMA	5 PVC PLASTIC VC SOLVENT W LLER: SCHEDULE 30 PVC SOLVEN OVER.	E 40
		LATERAL LINE:		EDULE 40 PV 40 PVC SOI	'C PLASTIC PIPE LVENT WELD FIT	
====		SLEEVING:	AS INDICA	TED IN SPEC	STIC PIPE. COV IFICATIONS OR R PIPE DEPTH OI	AS
CON	CONCON	CONDUIT:	SCHEDULE	40 PVC PLA	STIC CONDUIT.	COVER

Irrigation Consultant:

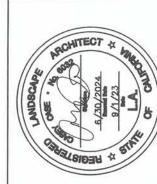
Russell D. Mitchell Associates, Inc.

2760 Camino Diablo

Walnut Creek, CA 94597

tel 925.939.3985 ♦ fax 925.932.5671

www.rmairrigation.com



GATES
+ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN







FONTAGE ROAD
LIVING TRAIL

REVIEWED: KC, TZ
DATE: 09/05/23
SCALE: AS SHOWN

45 OF 59 DWG. NO.

L3.07

MULTIPLE LATERALS

3/8/23

DATE

STANDARD DETAIL

IRRIGATION SYSTEM TRENCHING

\CDMXM\TALBOTWK\C3213623\DWD 11.DWG TALBOTWK 9/30/2022 9:30 AM

LATERAL, MAIN, AND MAIN AND WIRES

PAVED SURFACES. DO NOT TAPE WIRES WITHIN CONDUIT

. FOR ANY PIPING UNDER PAVEMENT, SEE CITY DETAIL R-5.

TO 18" AT THE SPRINKLER LOCATION ONLY

1) FINISH GRADE

3) LATERAL LINE

6) MAIN LINE

THE TRENCH

2) CLEAN BACKFILL MATERIAL

ALL MAIN SUPPLY LINES AND LATERAL LINES SHALL BE PLACED IN SLEEVES UNDER

PAVED SURFACES. INSTALL LOW VOLTAGE WIRES WITHIN A SEPARATE CONDUIT UNDER

. REUSE SALVAGED EXCAVATED FILL AND COMPACT TO ORIGINAL DENSITY IN LANDSCAPE

AREAS, ALL OTHER AREAS SHALL BE AT 85% COMPACTION. BACKFILL MATERIAL SHALL

LARGER THAN 2"), CONCRETE CHUNKS, AND OTHER FOREIGN OR COARSE MATERIALS

. WHEN 12" POP-UP SPRINKLER HEADS ARE USED, INCREASE THE DEPTH OF LATERAL

ENCASEMENT. USE CHRISTY MODEL #TA-DT-3-BIRR FOR POTABLE IRRIGATION SYSTEMS

BE THE EARTH EXCAVATED FROM THE TRENCHES, FREE FROM ROCKS (ANYTHING

4) 3" DETECTABLE WARNING TAPE OVER MAIN LINE. INSTALL ON TOP OF SAND

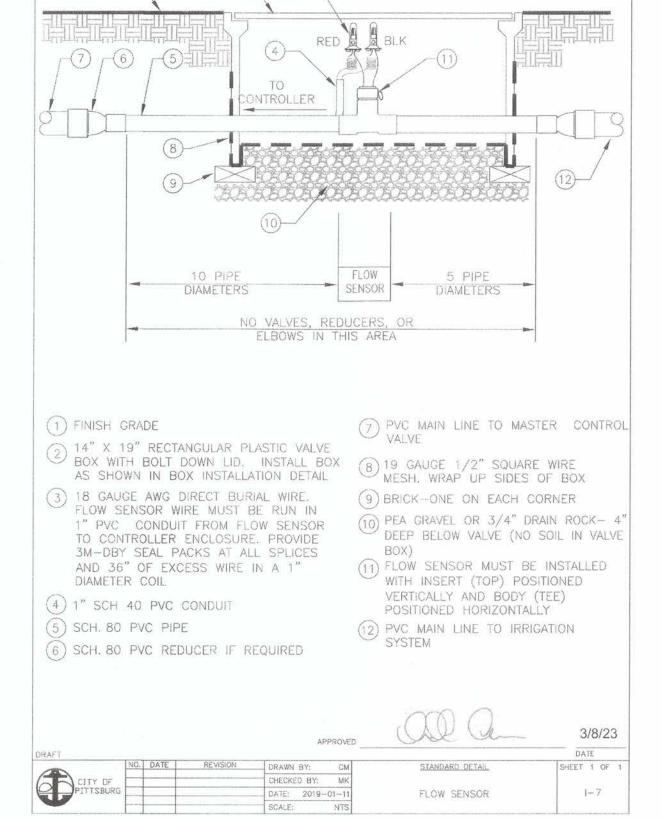
5) ENCASE MAIN LINE AND WIRES IN SAND, PROVIDE 4" OF SAND ABOVE MAIN AND

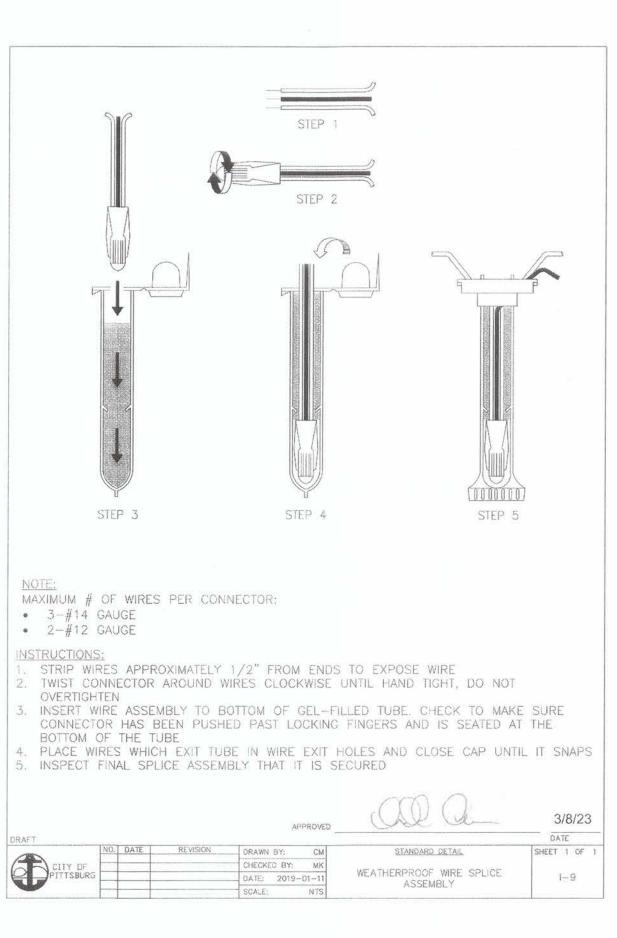
CONTROL WIRES AT 10 FT. INTERVALS. WIRING SHALL BE LAID OUT LOOSELY IN

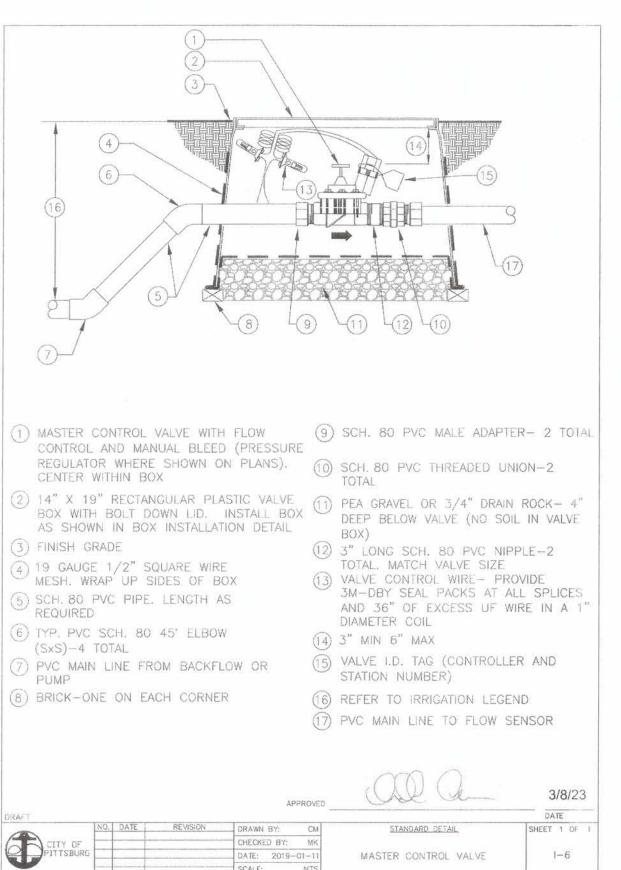
OR #TA-DT-3-PRW FOR RECYCLED IRRIGATION WATER SYSTEMS

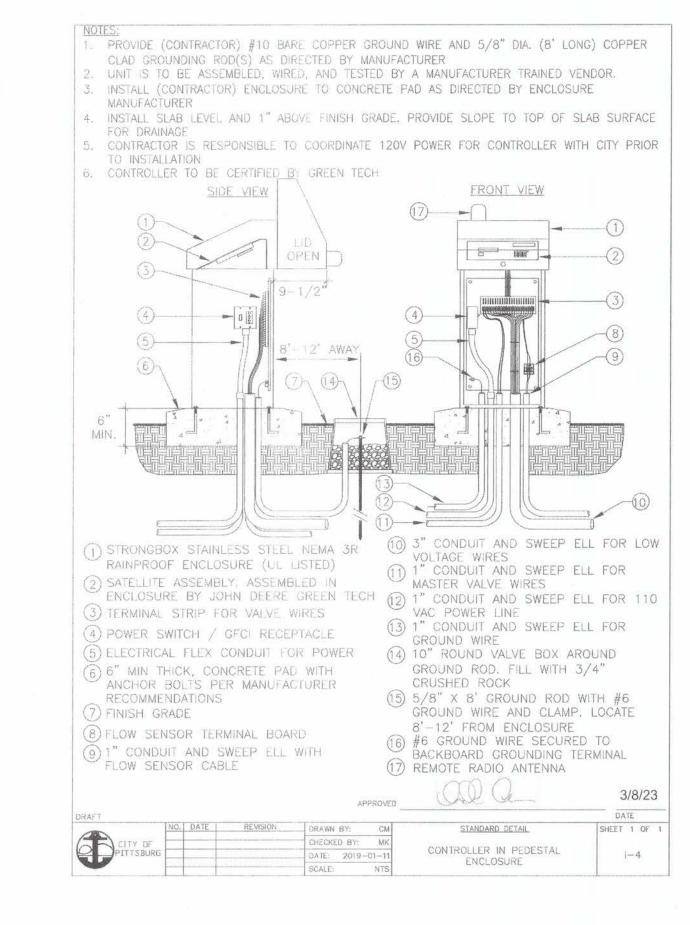
WIRES AND A MINIMUM OF 2" OF SAND ON THE REMAINING SIDES

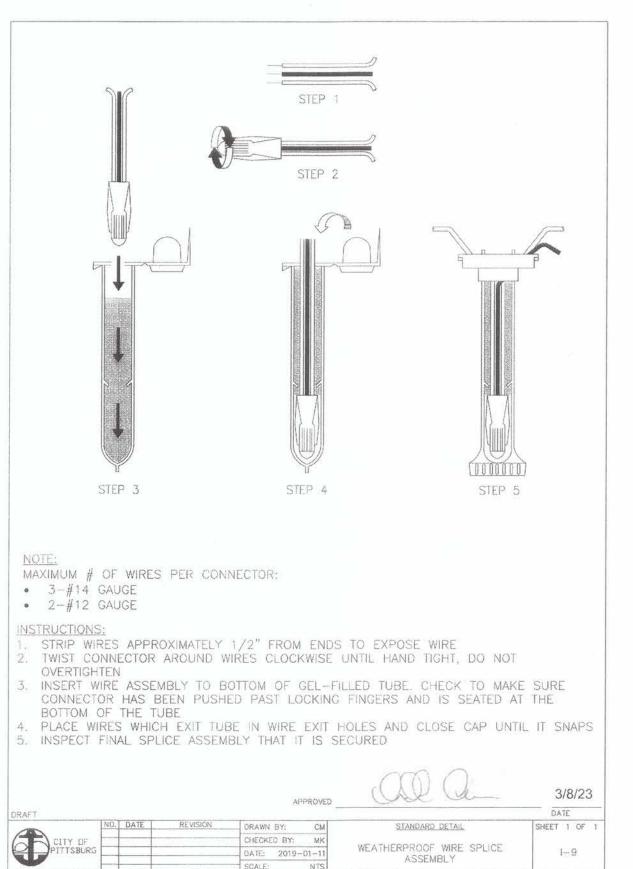
7) LOW VOLTAGE CONTROL WIRES OR TWO-WIRE CABLE. TAPE AND BUNDLE

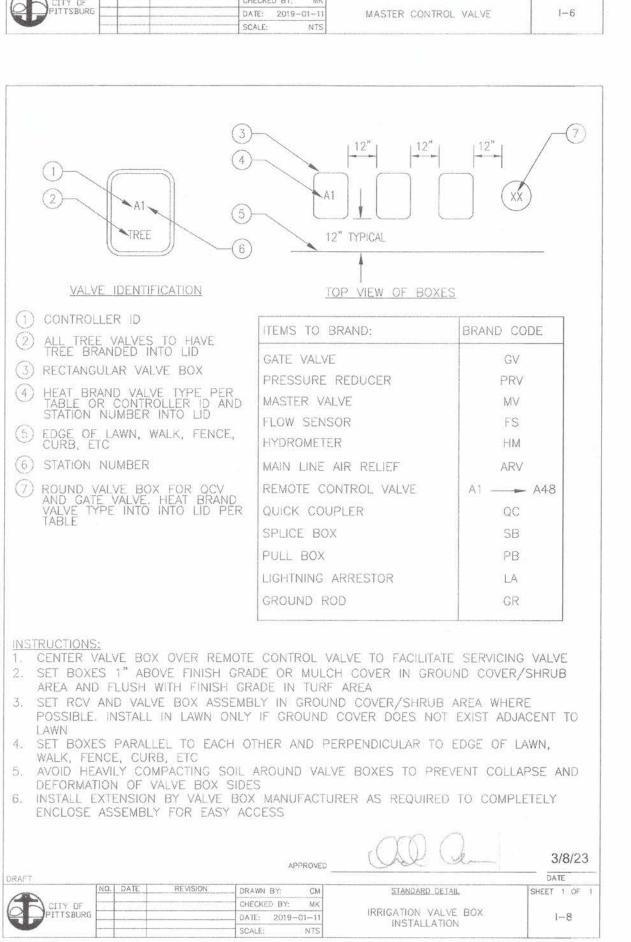


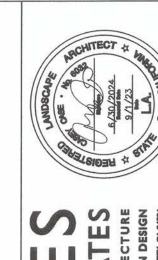














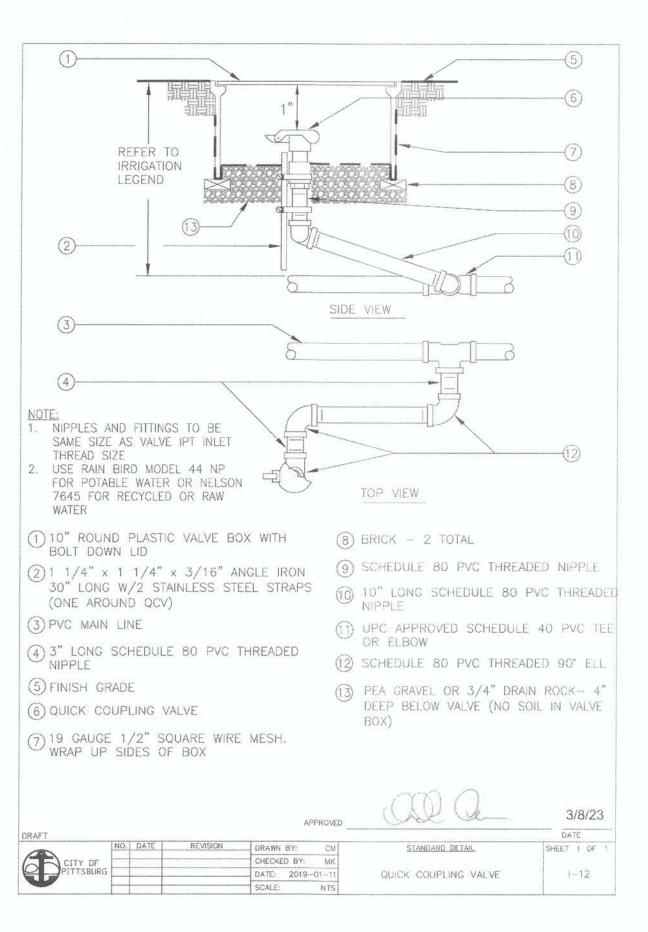


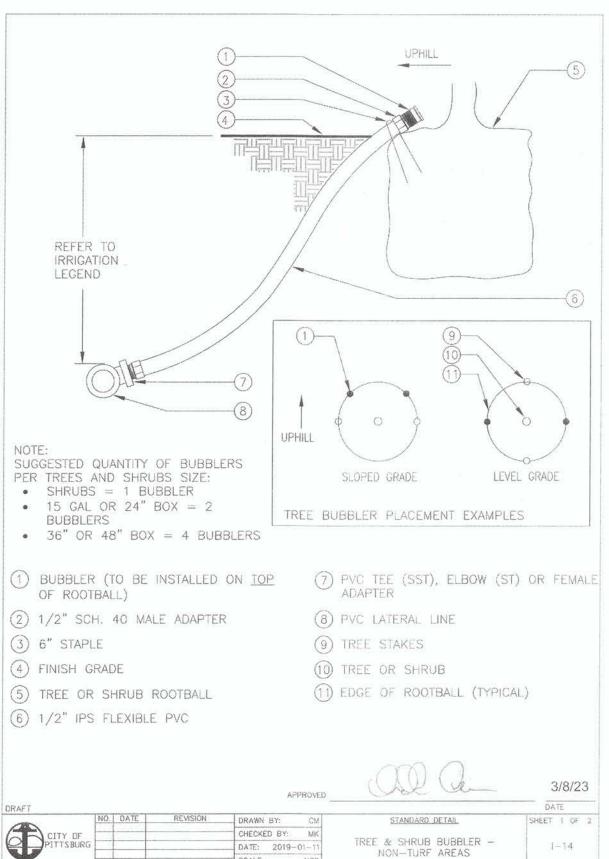


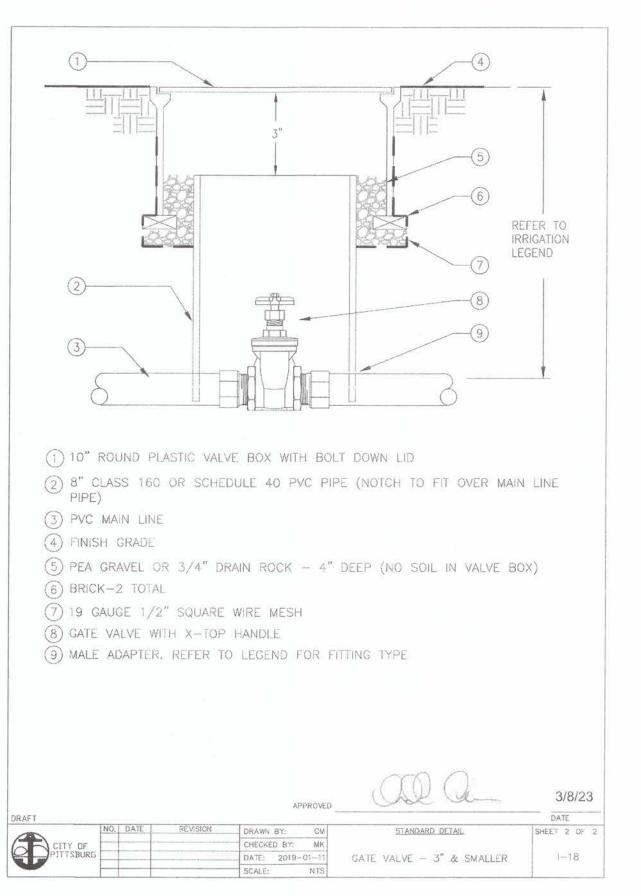


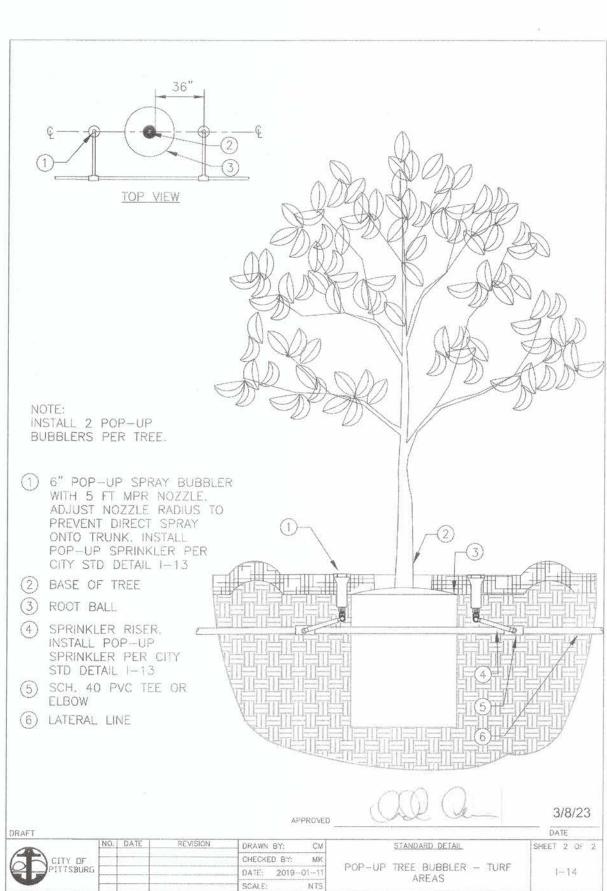
SHEET NO. 46 OF 59

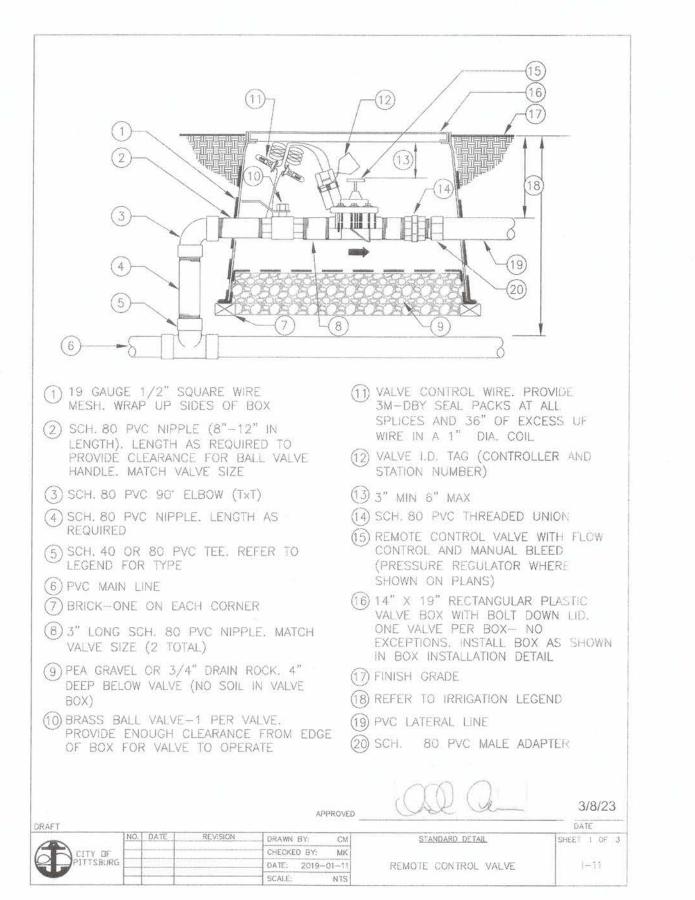
DWG. NO. L3.08

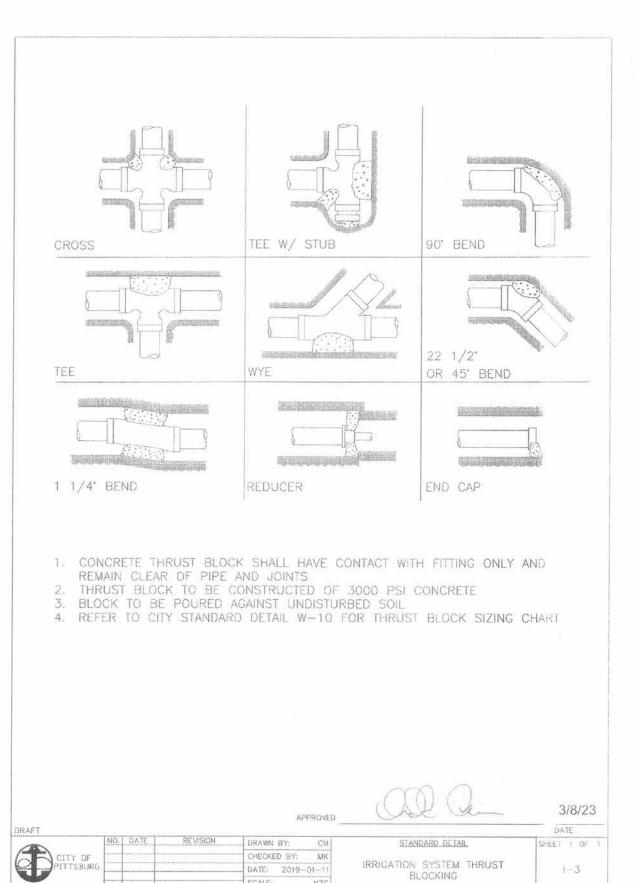










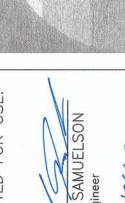


















SHEET NO. 47 OF 59

DWG. NO. L3.09

WATER CALCULATION:

WATER USE ESTIMATION & IRRIGATION SCHEDULE - CONTROLLER C

	WATER TYPE	POTABLE	
- 72 W W	CITY	Pittsburg	*Nearest City to project with published ET data*
	ETO	45.4	
	DATE	0/47/0000	

	WATER OOE ESTIMATION & INTROATION OF	TILDOLL OOMING
		The second secon

					REGUL	AR LANDSCAPE AREAS																		H	
									production of the second of t			JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	ост	NOV	DEC		
			14/4 TED 1105 TUDE														MONTH	ILY ETO						ETWU (GALLONS	PERCENTAGE C
			WATER USE TYPE (LW=LOW, MW=MOD,					PRECIP. RATE/ APPLICATION RATE		CYCLES PER	DAYS PER	1.0	1.5	2.8	4.1	5.6	6.4	7.4	6.4	5.0	3.2	1.3	0.7	PER YEAR)	LANDSCAPE
STATION/HYDROZONE	GPM	AREA (sq.ft) (HA)	HW=HIGH)	PLANT TYPE	IRRIGATION TYPE	PLANT FACTOR (PF)	IRRIGATION EFFICIENCY (IE)	(IN/HR)	ETAF (PF/IE)	DAY	WEEK		1			T	1	MINUTES PER			T				12974
C-1	18	864	LW	SHRUB GC LW	BUBBLER (SHRUB)	0.3	0.81	1.91	0.4	2	2	0.0	0.0	4.0	6.0	8.0	9.0	10.0	9.0	7.0	5.0	2.0	0.0	9,007	4%
C-2	2	60	MW	SHRUB GC LW	BUBBLER (SHRUB)	0.5	0.81	1.91	0.6	2	2	0.0	0.0	7.0	9.0	13.0	15.0	17.0	15.0	11.0	8.0	3.0	0.0	1,043	0%
C-3	12	564	LW	BIOSWALE LW	BUBBLER (SHRUB)	0.3	0.81	1.91	0.4	3	2	0.0	0.0	4.0	6.0	8.0	9.0	10.0	9.0	7.0	5.0	2.0	1.0	5,880	3%
C-4	15	744	LW	SHRUB GC LW	BUBBLER (SHRUB)	0.3	0.81	1.91	0.4	2	2	0.0	0.0	4.0	6.0	8.0	9.0	10.0	9.0	7.0	5.0	2.0	0.0	7,756	4%
C-5	7	1300	LW	TREE LW	BUBBLER (TREE) 0.5 GPM	0.3	0.81	0.85	0.4	2	2	0.0	0.0	9.0	13.0	17.0	19.0	22.0	19.0	15.0	10.0	4.0	0.0	13,553	6%
C-6	11	504	LW	SHRUB GC LW	BUBBLER (SHRUB)	0.3	0.81	1.91	0.4	2	2	0.0	0.0	4.0	6.0	8.0	9.0	10.0	9.0	7.0	5.0	2.0	0.0	5,254	2%
C-7	14	660	LW	BIOSWALE LW	BUBBLER (SHRUB)	0.3	0.81	1.91	0.4	2	2	0.0	0.0	4.0	6.0	8.0	9.0	10.0	9.0	7.0	5.0	2.0	0.0	6,881	3%
C-8	6	1200	LW	TREE LW	BUBBLER (TREE) 0.25 GPM	0.3	0.81	0.43	0.4	2	2	0.0	0.0	17.0	24.0	33.0	38.0	44.0	38.0	30.0	19.0	8.0	0.0	12,510	6%
C-9	27	1272	LW	SHRUB GC LW	BUBBLER (SHRUB)	0.3	0.81	1.91	0.4	2	2	0.0	0.0	4.0	6.0	8.0	9.0	10.0	9.0	7.0	5.0	2.0	0.0	13,261	6%
C-10	10	456	MW	SHRUB GC MW	BUBBLER (SHRUB)	0.5	0.81	1.91	0.6	2	3	0.0	0.0	5.0	6.0	9.0	10.0	11.0	10.0	8.0	5.0	2.0	0.0	7,923	2%
C-11	22	1032	LW	SHRUB GC LW	BUBBLER (SHRUB)	0.3	0.81	1.91	0.4	2	2	0.0	0.0	4.0	6.0	8.0	9.0	10.0	9.0	7.0	5.0	2.0	0.0	10,759	5%
C-12	35	1692	LW	SHRUB GC LW	BUBBLER (SHRUB)	0.3	0.81	1.91	0.4	3	2	0.0	0.0	4.0	6.0	8.0	9.0	10.0	9.0	7.0	5.0	2.0	0.0	17,639	8%
C-13	20	960	LW	BIOSWALE LW	BUBBLER (SHRUB)	0.3	0.81	1.91	0.4	2	2	0.0	0.0	4.0	6.0	8.0	9.0	10.0	9.0	7.0	5.0	2.0	0.0	10,008	5%
C-14	12	2400	LW	TREE LW	BUBBLER (TREE) 0.25 GPM	0.3	0.81	0.43	0.4	2	2	0.0	0.0	17.0	24.0	33.0	38.0	44.0	38.0	30.0	19.0	8.0	0.0	25,020	12%
C-15	30	1440	LW	SHRUB GC LW	BUBBLER (SHRUB)	0.3	0.81	1.91	0.4	2	2	0.0	0.0	4.0	6.0	8.0	9.0	10.0	9.0	7.0	5.0	2.0	0.0	15,012 10,884	7%
C-16	22	1044	LW	BIOSWALE LW	BUBBLER (SHRUB)	0.3	0.81	1.91	0.4	2	2	0.0	0.0	4.0	6.0	8.0	9.0	10.0	9.0	7.0	5.0	2.0	0.0		5%
C-17 C-18	4	1000	LW	TREE LW	BUBBLER (TREE) 0.25 GPM	0.3	0.81	0.43	0.4	2	2	0.0	0.0	17.0	24.0	33.0	38.0	44.0	38.0		19.0		0.0	8,340 10,425	4%
	19	888	LW	TREE LW	BUBBLER (TREE) 0.25 GPM	0.3	0.81		0.4	2	2	0.0	0.0	17.0	24.0	33.0	38.0 9.0	10.0	38.0 9.0	30.0	19.0	8.0 2.0	0.0	9,258	5%
C-19 C-20	22	1032	LW	SHRUB GC LW BIOSWALE LW	BUBBLER (SHRUB) BUBBLER (SHRUB)	0.3	0.81	1.91	0.4	2	2	0.0	0.0	4.0	6.0	8.0	9.0	10.0	9.0	7.0	5.0		0.0	10,759	4%
	14	672	LW	1 - 100000 00000 00000 0000000000000000			0.81	1.91		2	2	0.0		4.0	1	8.0	9.0	10.0		7.0	5.0	2.0	0.0	7,006	5% 3%
C-21	14	0/2	MW	SHRUB GC LW SHRUB GC MW	BUBBLER (SHRUB) BUBBLER (SHRUB)	0.3	0.81	1.91	0.4	3	2	0.0	0.0	4.0	6.0	8.0	10.0		9.0	8.0	5.0	2.0	0.0	556	
C-22	TOTAL	20,616	IVIVV	SHKOB GC IVIVV	DUDDLER (SHKUB)	0.5	0.81	1.91	0.6		3	0.0	0.0	5.0	6.0	9.0	10.0	11.0	10.0	8.0	5.0	2.0	TOTAL	218,734	0% 35%
	TOTAL	20,010	1																				TOTAL	210,734	35%

	SPECIAL LANDSCAPE AF	CAS	
HYDROZONE #	HYDROZONE NAME	AREA (sq.ft) (HA)	Percentage of Landscape
			0%

	GALLONS/YR	261,135
MAWA	ACRE FEET/YR	0.80
	HCF/YR	349.11

	GALLONS/YR	218,734
ETWU	ACRE FEET/YR	0.67
	HCF/YR	29

SITE IRRIGATION EFFICIENCY	SITE PLANT FACTOR	MAWA COMPLIANT
28.2%	0.10	YES

ETAF Calcula	tions
REGULAR LANDSCAPE AREA	S
TOTAL ETAF x AREA	2,670
TOTAL AREA	20,616
AVG. ETAF	12.95%

THE IRRIGATION VALVE SCHEDULE SHOWN ABOVE IS INTENDED TO BE USED AS A GUIDELINE ONLY AND INDICATES THE APPROXIMATE RUN TIMES IN MINUTES FOR EACH VALVE BASED ON ESTIMATED WEEKLY WATER REQUIREMENTS FOR ESTABLISHED PLANT MATERIAL. THE TIMES SHOWN ARE APPROXIMATE AND HAVE BEEN DEVELOPED FROM LOCAL AND CURRENT AVERAGES FOR EVAPOTRANSPIRATION, AND REFLECTTHE WATER REQUIREMENTS OF THE PLANT MATERIAL BASED ON PLANT TYPE AND THE APPROXIMATE PRECIPITATION OR APPLICATION RATES OF THE IRRIGATION SYSTEM TYPE. ACTUAL RUN TIMES MAY BE DIFFERENT DEPENDING ON A VARIETY OF FACTORS INCLUDING TOPOGRAPHY, SOIL STRUCTURE, SUN AND WIND EXPOSURE, WEATHER, ACTUAL PLANT WATER REQUIREMENTS, OVERALL PRECIPITATION RATE OF ZONE, ETC.

MAWA FORMULA MAXIMUM APPLIED WATER ALLOWANCE (MAWA) GALLONS PER YEAR MAWA = $(ETo)(0.62)[(LA \times 0.45) + (0.55 \times SLA)]$

ETo = REFERENCE EVAPOTRANSPIRATION

0.45= ET ADJUSTMENT FACTOR

LA=LANDSCAPED AREA (SQUARE FEET) 0.62 = CONVERSION FACTOR (GALLONS/SQ.FT/YR)

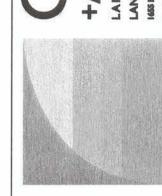
ETWU FORMULA ESTIMATED TOTAL WATER USE (ETWU) GALLONS PER YEAR ETWU= ((ETO)(.62)(ETAF x LA))

ETo = REFERENCE EVAPOTRANSPIRATION

PF = PLANT FACTOR FOR HYDROZONES

HA = HYDROZONE AREA (SQ.FT) 0.62 = CONVERSION FACTOR (GALLONS/SQ.FT/YR) IE = IRRIGATION EFFICIENCY (0.81)-BUBBLER/DRIP

IE = IRRIGATION EFFICIENCY (0.75)-ROTORS/SPRAY



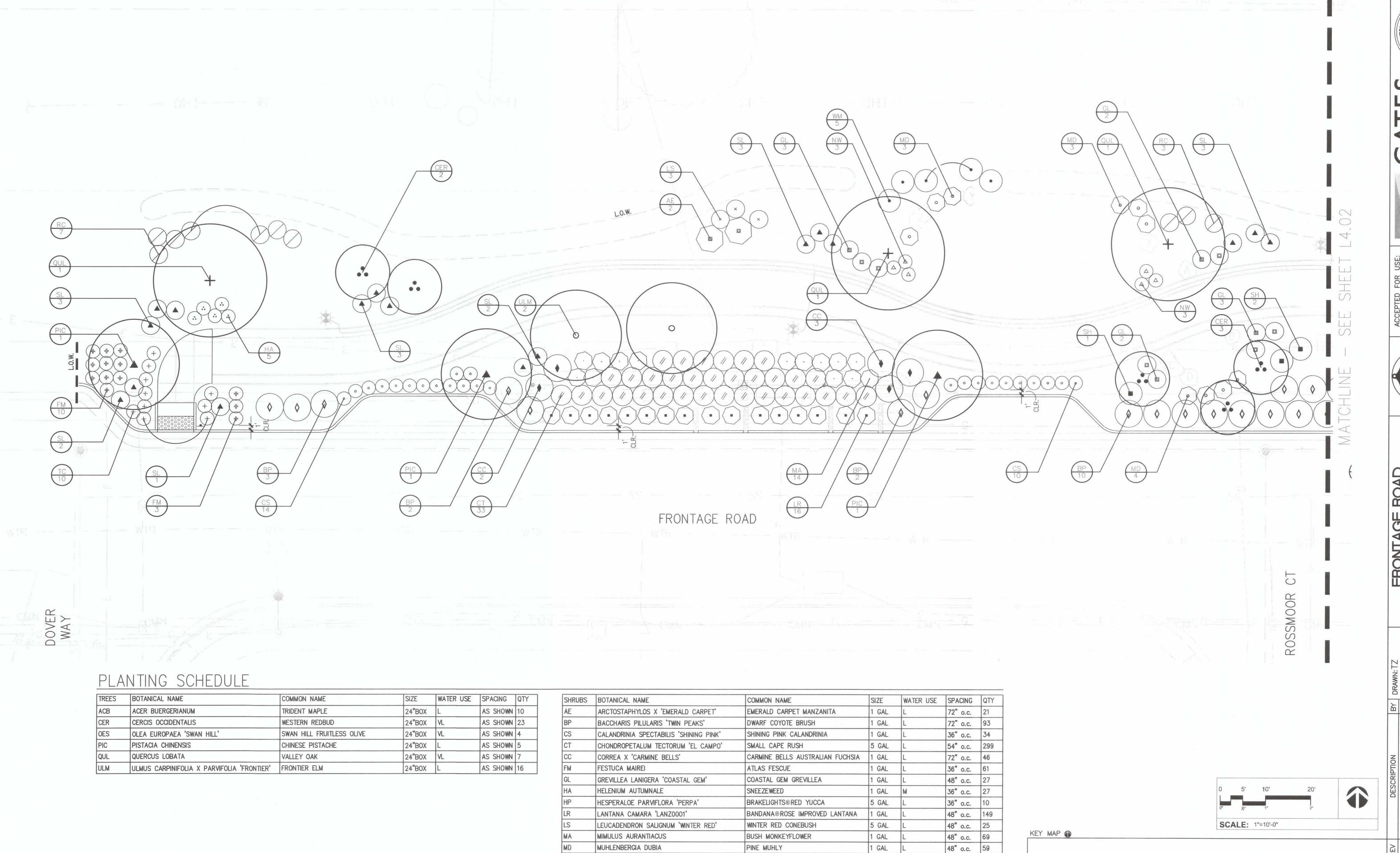




SHEET NO. 48 OF 59

DWG. NO.

L3.10



NEPETA X 'WALKER'S LOW'

TEUCRIUM CHAMAEDRYS

RHAMNUS CALIFORNICA 'MOUND SAN BRUNO'

SALVIA LEUCANTHA 'SANTA BARBARA'

WESTRINGIA FRUTICOSA 'MORNING LIGHT'

SALVIA MICROPHYLLA 'HOT LIPS'

1 GAL

GAL

5 GAL

5 GAL

GAL

1 GAL

WALKER'S LOW CATMINT

MEXICAN BUSH SAGE

GERMANDER

HOT LIPS GRAHAM SAGE

MOUND SAN BRUNO COFFEEBERRY

MORNING LIGHT COAST ROSEMARY

36" o.c. 31

48" o.c. 39

48" o.c. 66

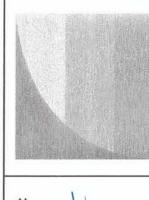
60" o.c. 15

36" o.c. 65

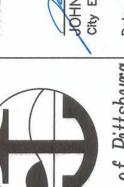
60" o.c. 11

FRONTAGE ROAD



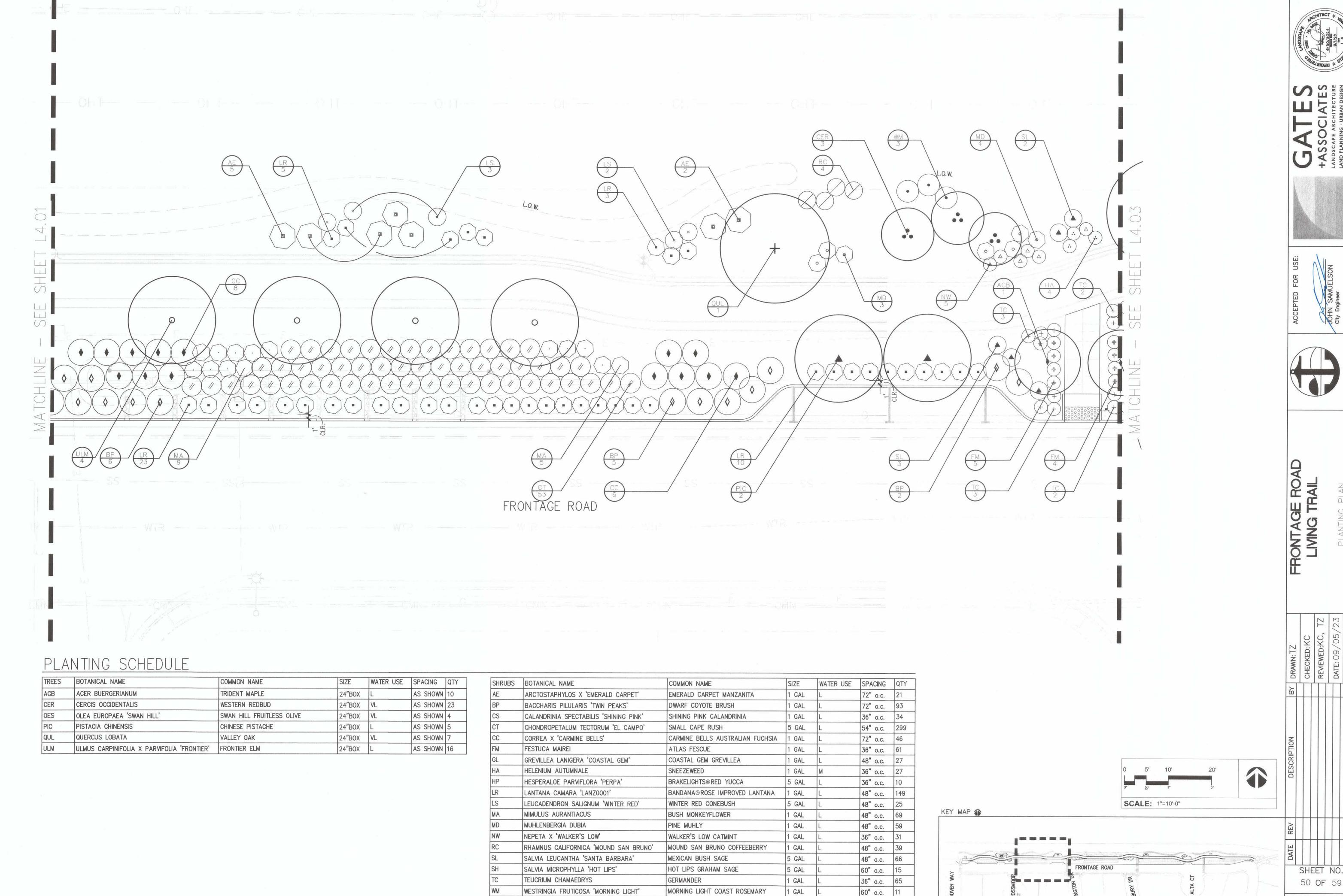






B				
DESCRIPTION				
REV				

SHEET NO. 49 **OF** 59 DWG. NO. L4.01



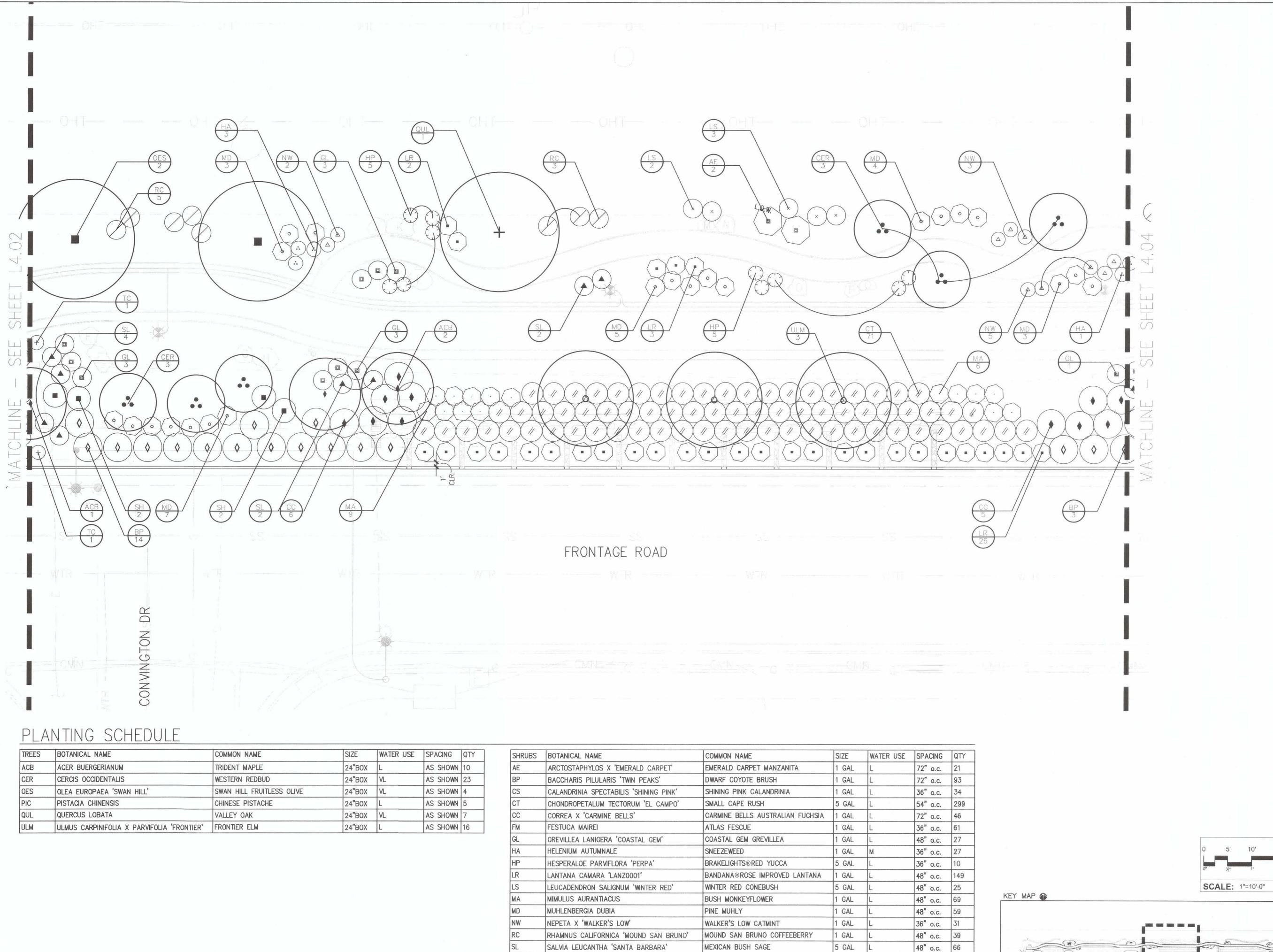




DESCRIPTION				
REV				
ATE				

8 | | | | | SHEET NO. 50 **OF** 59 DWG. NO.

L4.02



SALVIA MICROPHYLLA 'HOT LIPS'

WESTRINGIA FRUTICOSA 'MORNING LIGHT'

TEUCRIUM CHAMAEDRYS

HOT LIPS GRAHAM SAGE

MORNING LIGHT COAST ROSEMARY

GERMANDER

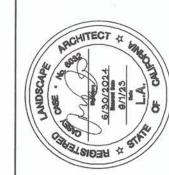
60" o.c. 15

36" o.c. 65

60" o.c. 11

5 GAL

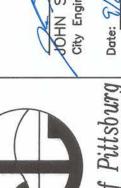
GAL





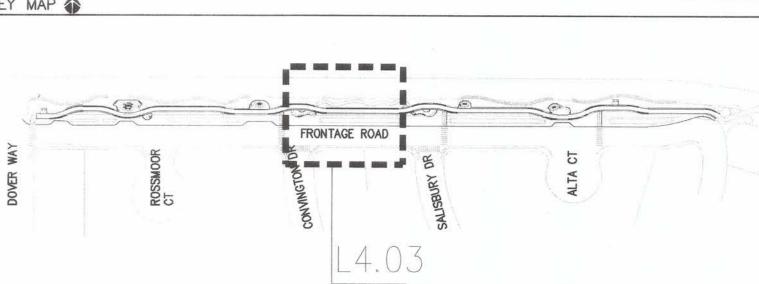








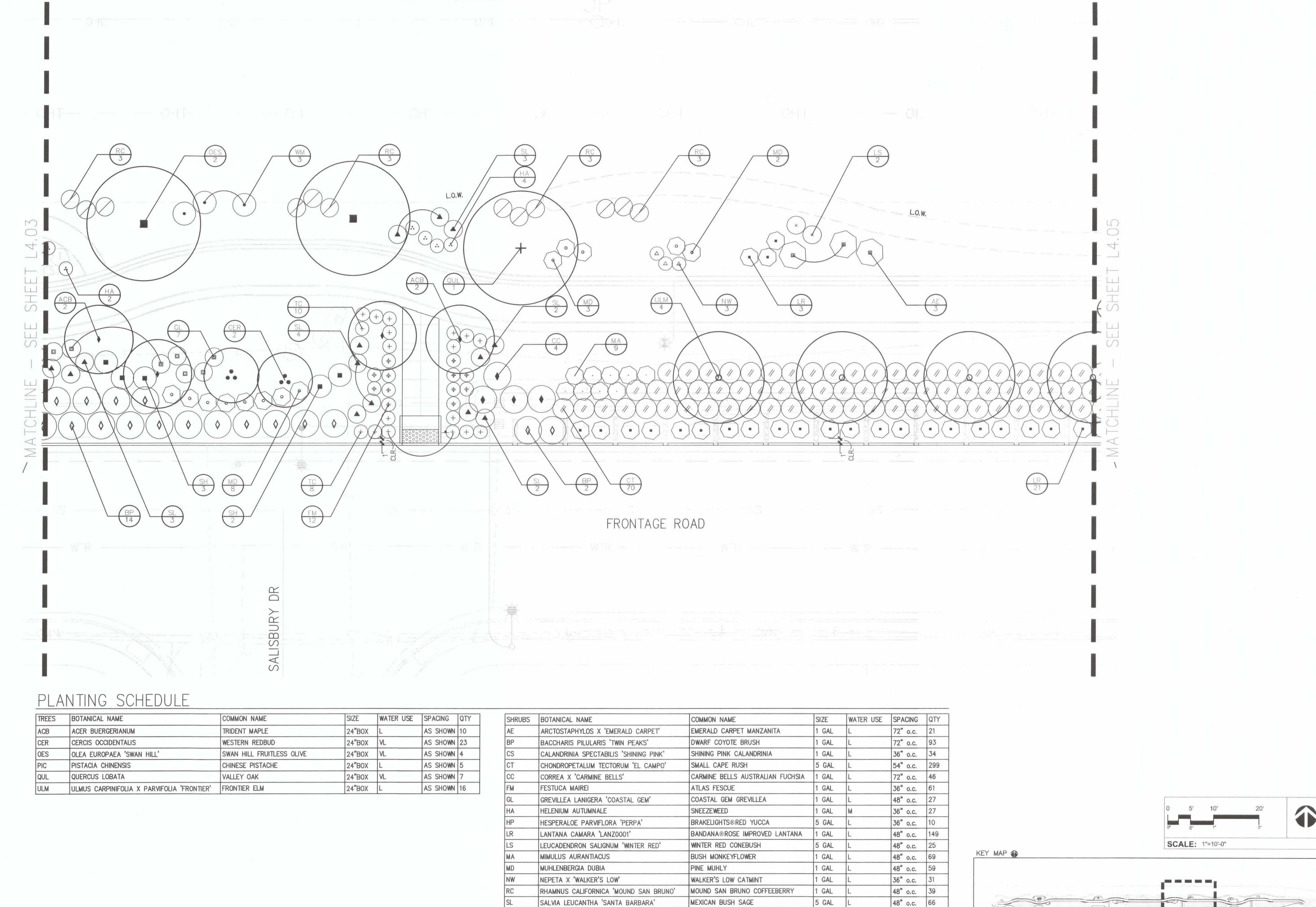
				NOITA
5'	10'	20'		DESCRIPT
Y2*	1"	2"	1	
.E:	1"=10'-0"		1	



DWG. NO. L4.03

SHEET NO.

51 **OF** 59



HOT LIPS GRAHAM SAGE

MORNING LIGHT COAST ROSEMARY

GERMANDER

SALVIA MICROPHYLLA 'HOT LIPS'

WESTRINGIA FRUTICOSA 'MORNING LIGHT'

TEUCRIUM CHAMAEDRYS

60" o.c. 15

36" o.c. 65

60" o.c. 11

5 GAL

1 GAL

1 GAL







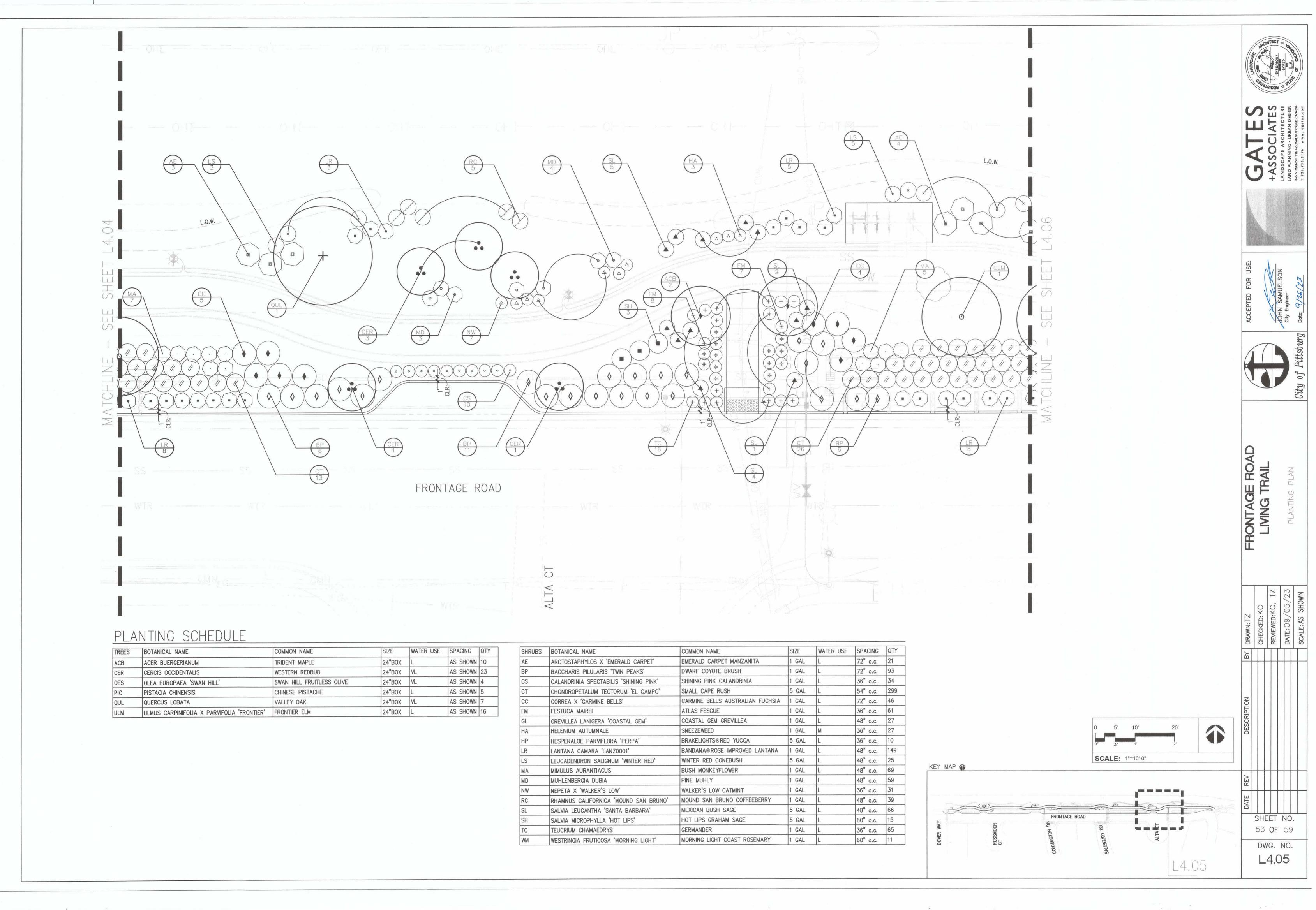


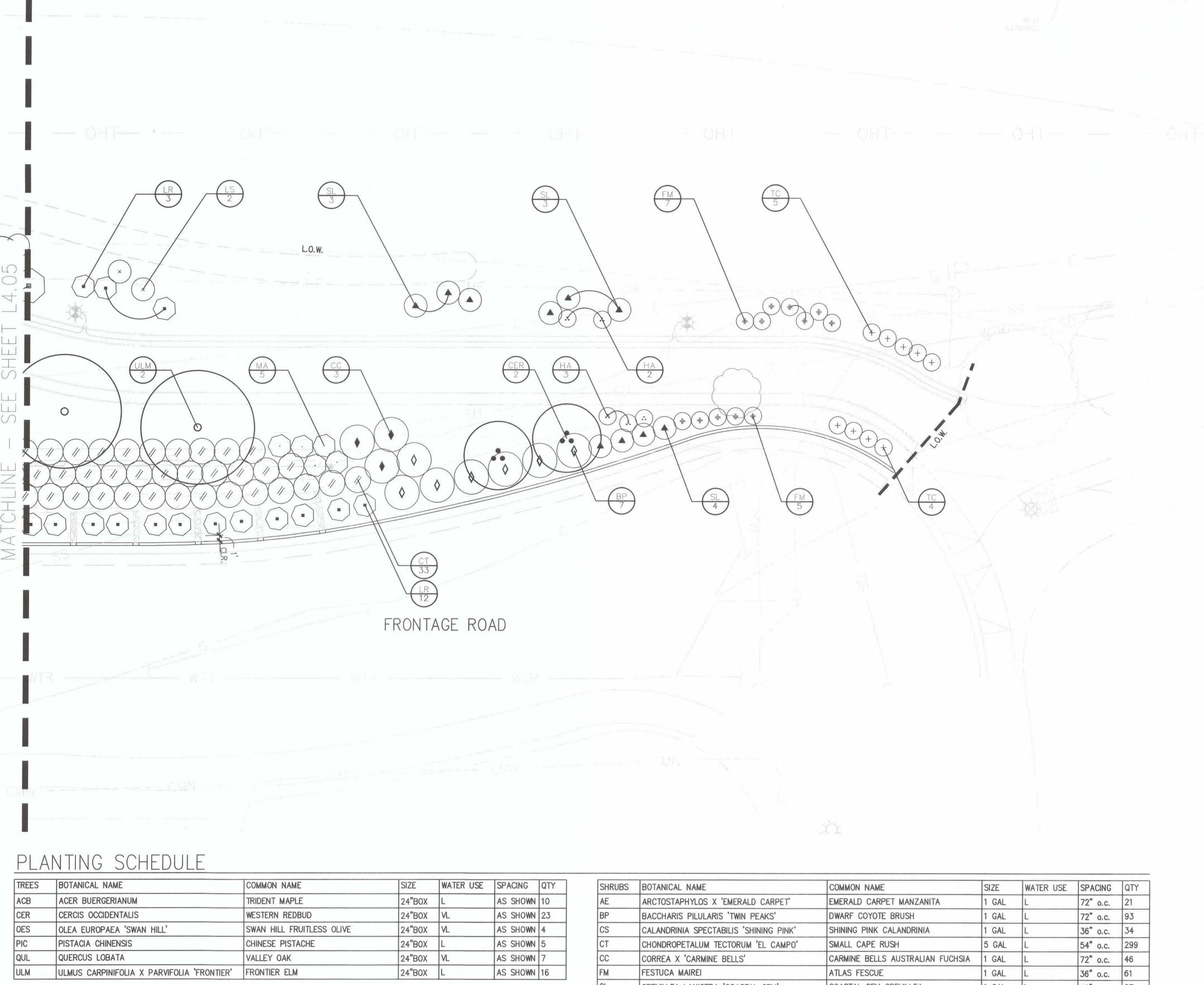


DESCRIPTION				
REV				
	\neg			_

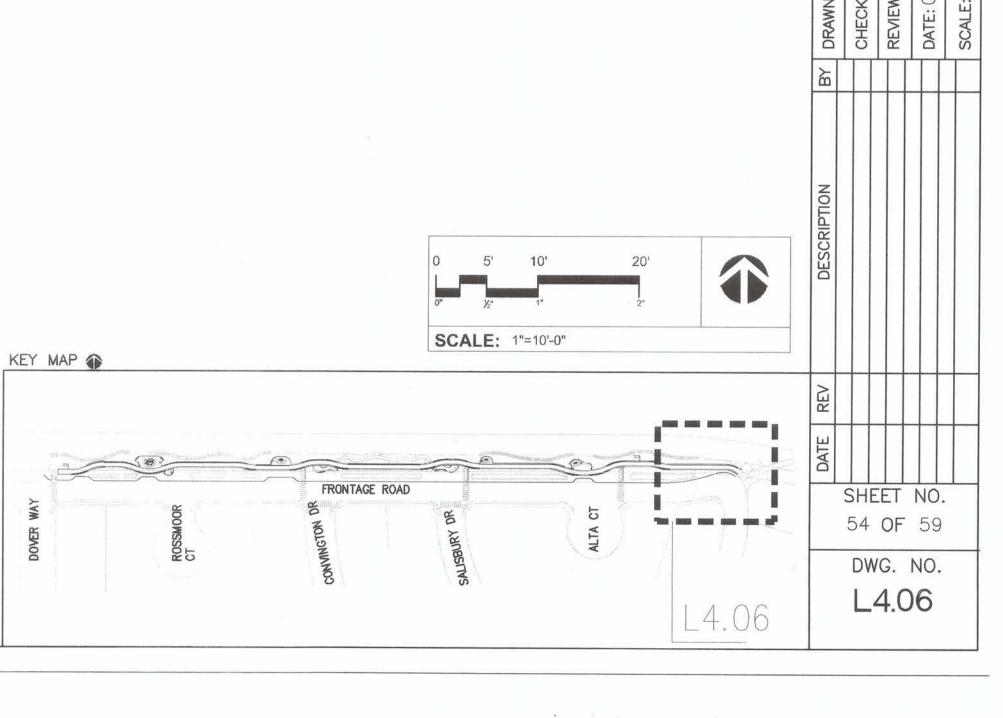
SHEET NO. 52 **OF** 59 DWG. NO. L4.04

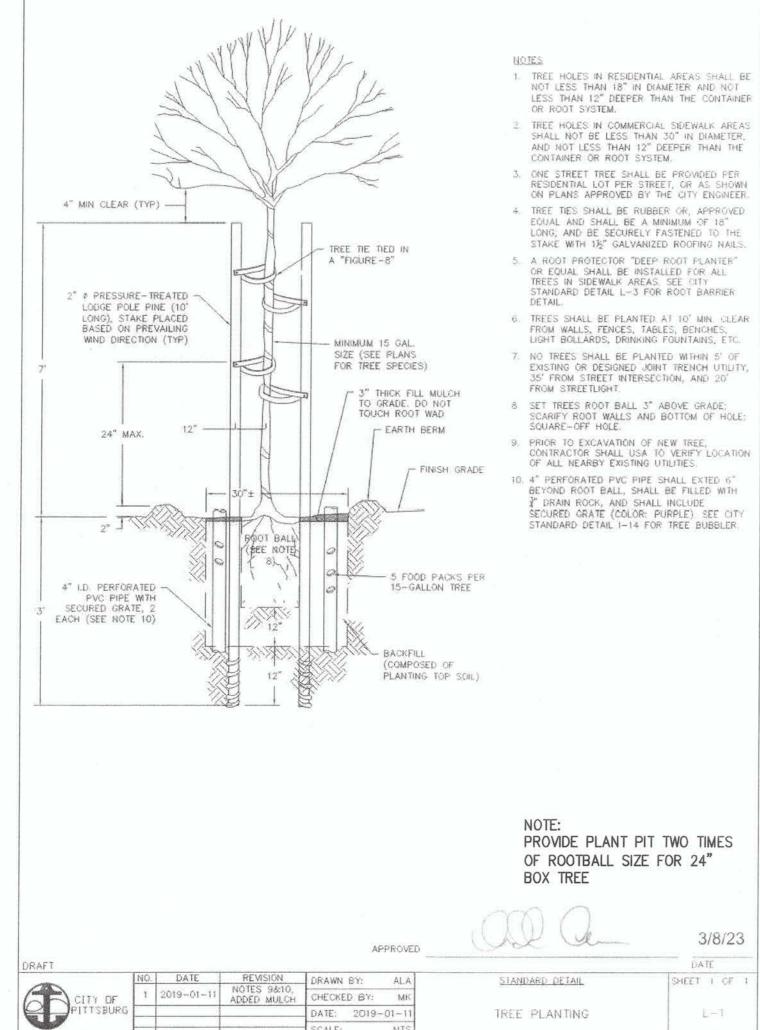
L4.04

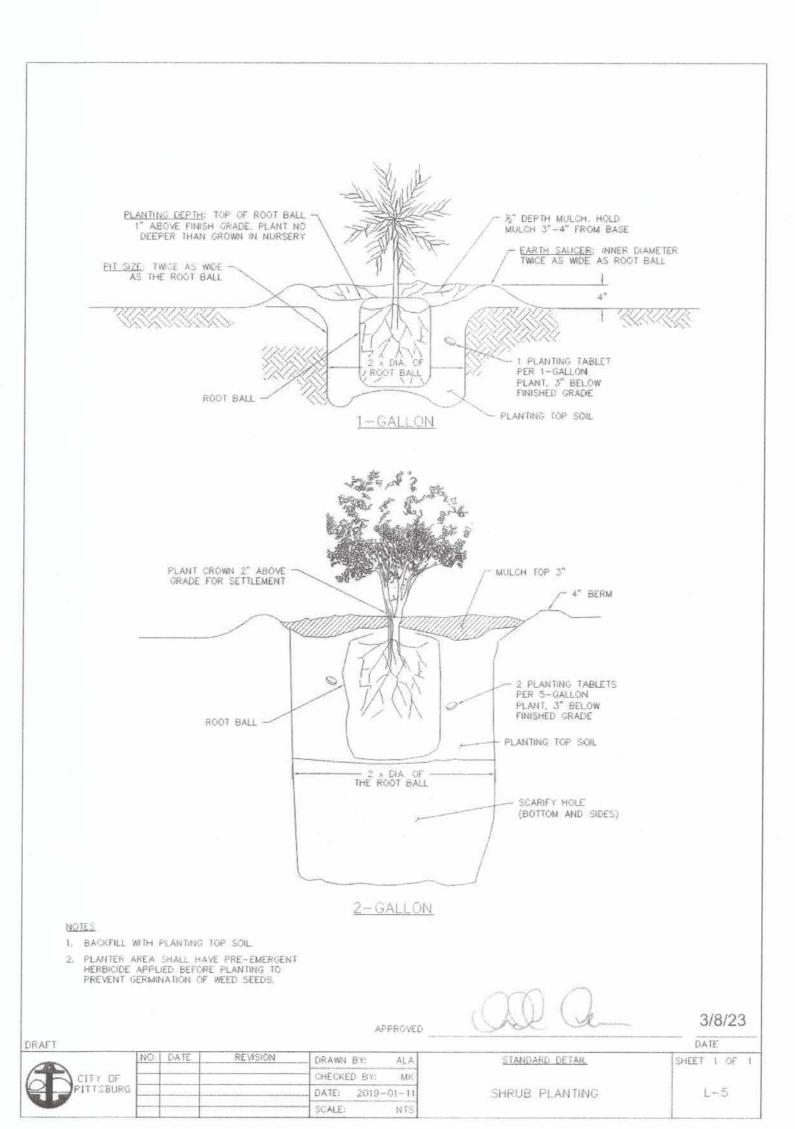


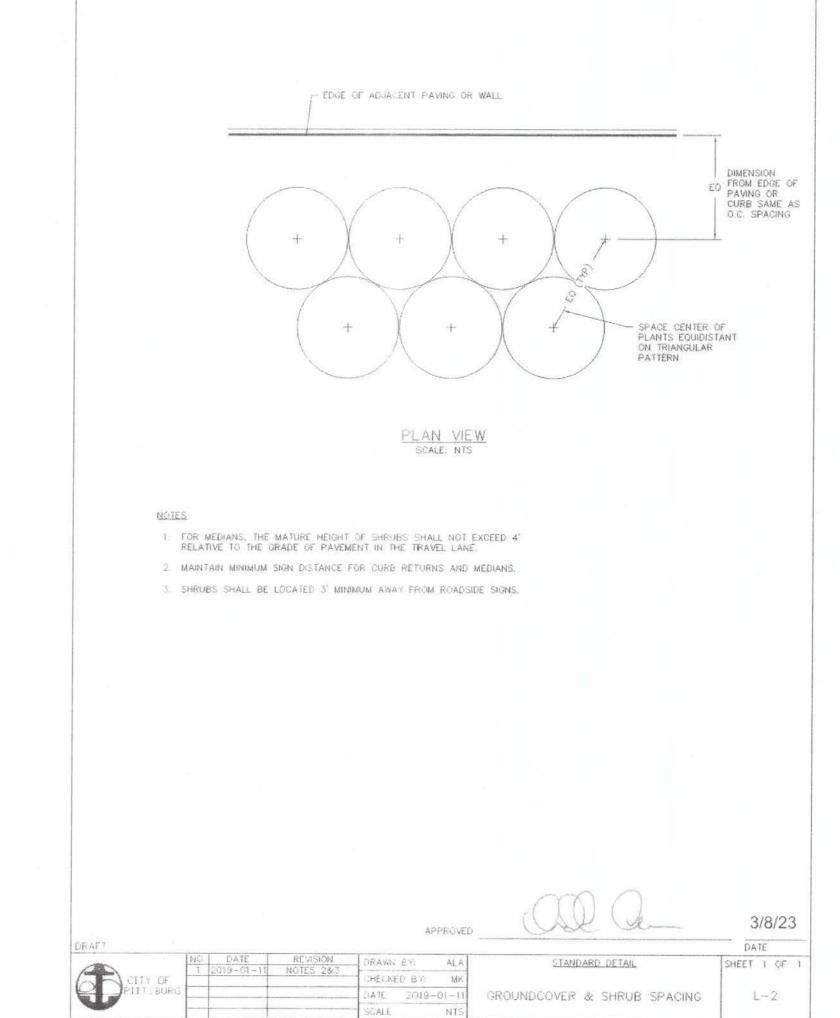


SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	SPACING	QTY
AE	ARCTOSTAPHYLOS X 'EMERALD CARPET'	EMERALD CARPET MANZANITA	1 GAL	L	72" o.c.	21
BP	BACCHARIS PILULARIS 'TWIN PEAKS'	DWARF COYOTE BRUSH	1 GAL	L	72" o.c.	93
CS	CALANDRINIA SPECTABILIS 'SHINING PINK'	SHINING PINK CALANDRINIA	1 GAL	L	36" o.c.	34
СТ	CHONDROPETALUM TECTORUM 'EL CAMPO'	SMALL CAPE RUSH	5 GAL	L	54" o.c.	299
CC	CORREA X 'CARMINE BELLS'	CARMINE BELLS AUSTRALIAN FUCHSIA	1 GAL	L	72" o.c.	46
FM	FESTUCA MAIREI	ATLAS FESCUE	1 GAL	L	36" o.c.	61
GL	GREVILLEA LANIGERA 'COASTAL GEM'	COASTAL GEM GREVILLEA	1 GAL	L	48" o.c.	27
НА	HELENIUM AUTUMNALE	SNEEZEWEED	1 GAL	М	36" o.c.	27
HP	HESPERALOE PARVIFLORA 'PERPA'	BRAKELIGHTS®RED YUCCA	5 GAL	L	36" o.c.	10
LR	LANTANA CAMARA 'LANZOOO1'	BANDANA®ROSE IMPROVED LANTANA	1 GAL	L	48" o.c.	149
LS	LEUCADENDRON SALIGNUM 'WINTER RED'	WINTER RED CONEBUSH	5 GAL	L	48" o.c.	25
MA	MIMULUS AURANTIACUS	BUSH MONKEYFLOWER	1 GAL	L	48" o.c.	69
MD	MUHLENBERGIA DUBIA	PINE MUHLY	1 GAL	L	48" o.c.	59
NW	NEPETA X 'WALKER'S LOW'	WALKER'S LOW CATMINT	1 GAL	L	36" o.c.	31
RC	RHAMNUS CALIFORNICA 'MOUND SAN BRUNO'	MOUND SAN BRUNO COFFEEBERRY	1 GAL	L	48" o.c.	39
SL	SALVIA LEUCANTHA 'SANTA BARBARA'	MEXICAN BUSH SAGE	5 GAL	L	48" o.c.	66
SH	SALVIA MICROPHYLLA 'HOT LIPS'	HOT LIPS GRAHAM SAGE	5 GAL	L	60" o.c.	15
TC	TEUCRIUM CHAMAEDRYS	GERMANDER	1 GAL	L	36" o.c.	65
WM	WESTRINGIA FRUTICOSA 'MORNING LIGHT'	MORNING LIGHT COAST ROSEMARY	1 GAL	L	60" o.c.	11















FRONTAGE ROAD

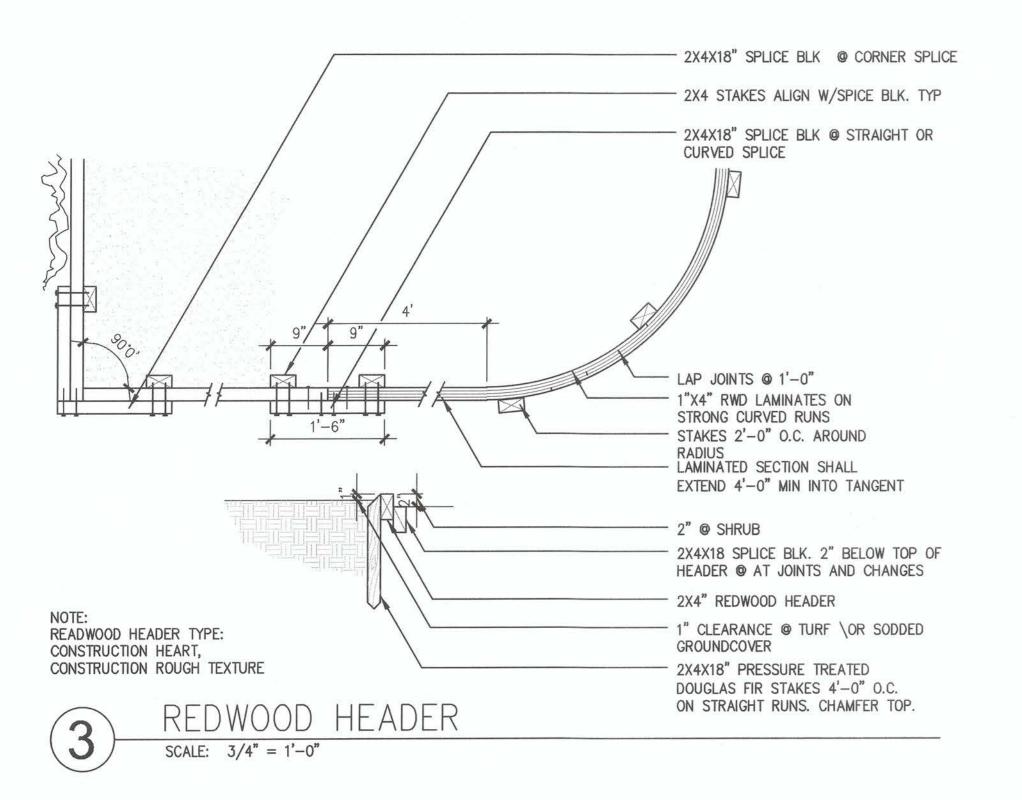
SHEET NO. 55 **OF** 59

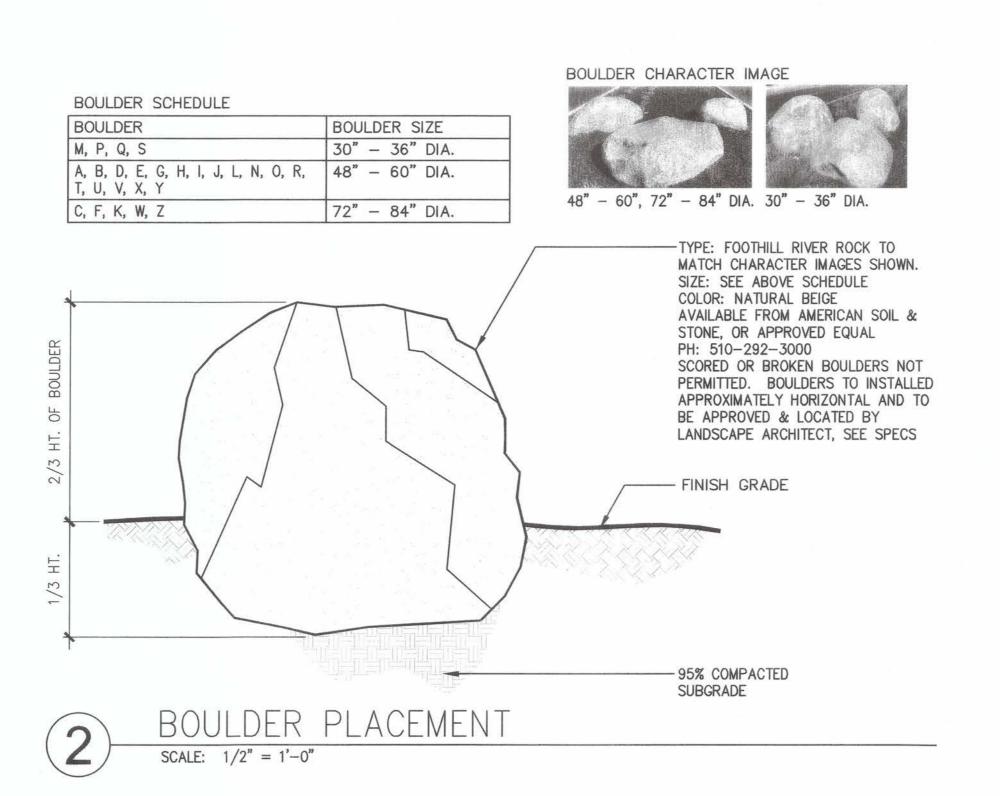
> DWG. NO. L5.01

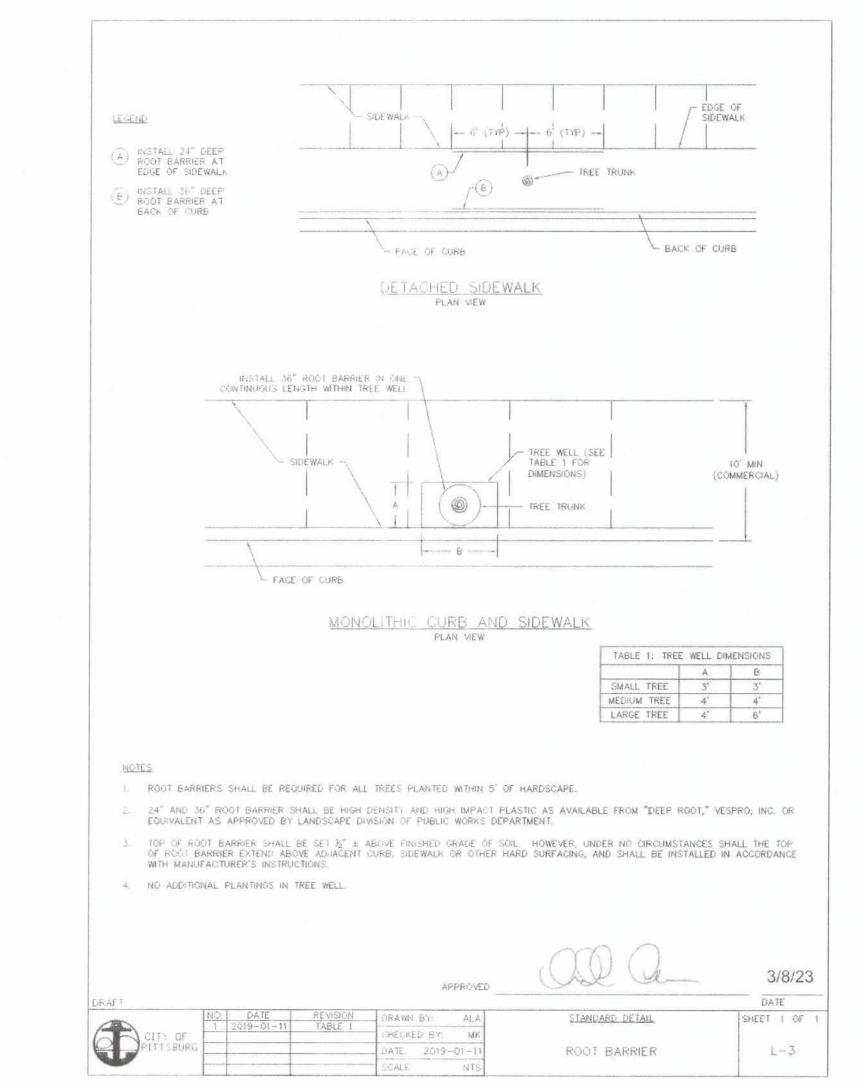
(3)

TREE PLANTING SCALE: N.T.S.











MING TRAIL

WING TRAIL

WING TRAIL

WING TRAIL

JOHN SAMUELSON

City of Pittsburg

Date: 9/26/23

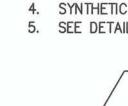
SHEET NO.

56 **OF** 59

DWG. NO.

L5.02





- CONCRETE PAVING

→ DOWEL

SECTION @ CONSTRUCTION JOINT

DOWEL INTO EXISTING CURB SHALL BE INSTALLED PER CITY STANDARD

SCALE: 3"=1'-0"

DETAIL ST-9A

18" #4 REBAR ——— DOWELS @ SEALED

COMPACTED SUBGRADE PER

CENTER IN CONCRETE SLAB

SCALE: 1-1/2"=1'-0"

SECTION

COMPACTED CALTRANS CLASS II AGGREGATE BASE PER GEOTECHNICAL REPORT

SCALE: 1-1/2" = 1'-0"

#3 REBAR @ 18" O.C., MAX, B.W., TYP.--

GEOTECHNICAL REPORT

JOINTS & EXP.

JOINTS, 24" O.C.

SLEEVE ONE END

NOTES:

— SAW CUT SCORE JOINT

- CONSTRUCTION JOINT

AGGREGATE BASE PER GEOTECHNICAL REPORT

- COMPACTED CALTRANS CLASS II

HOLD FINISH GRADE -

OF PLANTING AREAS

GRADE OF ADJACENT

CONCRETE FLATWORK

THICKENED EDGE ----

SAW CUT SCORE JOINTS:

LOCATE AS SHOWN ON PLANS

1/4" SAW CUT SCORE JOINT 1/4

DEPTH OF THE SLAB, R=3/16" TYP.

- PAVING JOINTS:

PEDESTRIAN CONCRETE PAVING

1" BELOW FINISH

3/8" ZIP STRIP WITH POLYSULFIDE

PAVING. SEE SPECIFICATIONS

FOR COLOR & FINISH.

SEALANT BY SIKAFLEX OR APPROVED EQUAL. COLOR SHALL MATCH CONCRETE

- CONCRETE PAVING, SEE LAYOUT LEGEND L1.01

MIN.

18" MIN.

FRONTAGE ROALLINING TRAIL

SHEET NO. 57 **OF** 59

> DWG. NO. L5.03

CONTRACTOR TO PROVIDE CPSI INSPECTION UPON COMPLETION.

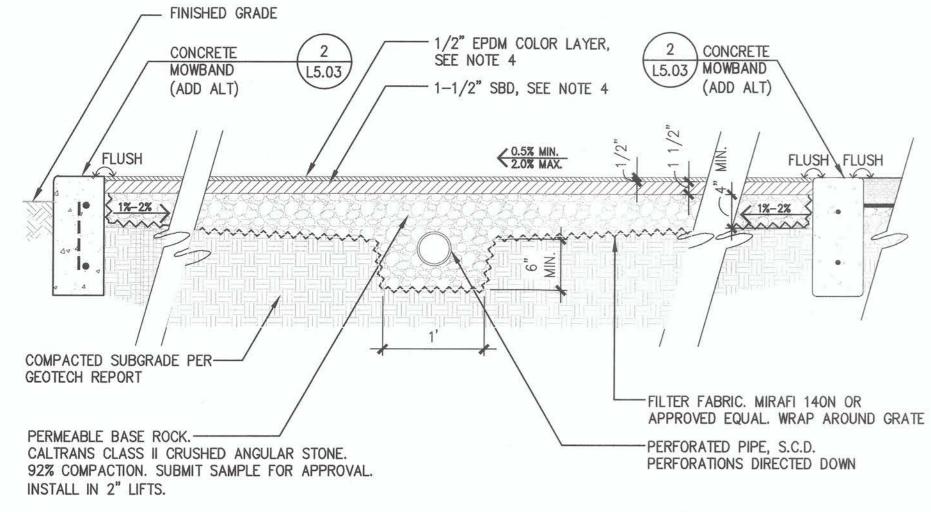
2. CONTRACTOR SHALL PERFORM A COMPACTION TEST OF AGGREGATE BASE TO CONFIRM CONDITIONS MEET MFR'S

SPECIFICATIONS PRIOR TO INSTALLATION OF POURED IN PLACE. 3. SURFACING SHALL MEET ALL REQUIREMENTS OF ASTM 1951F AND ASTM F1292

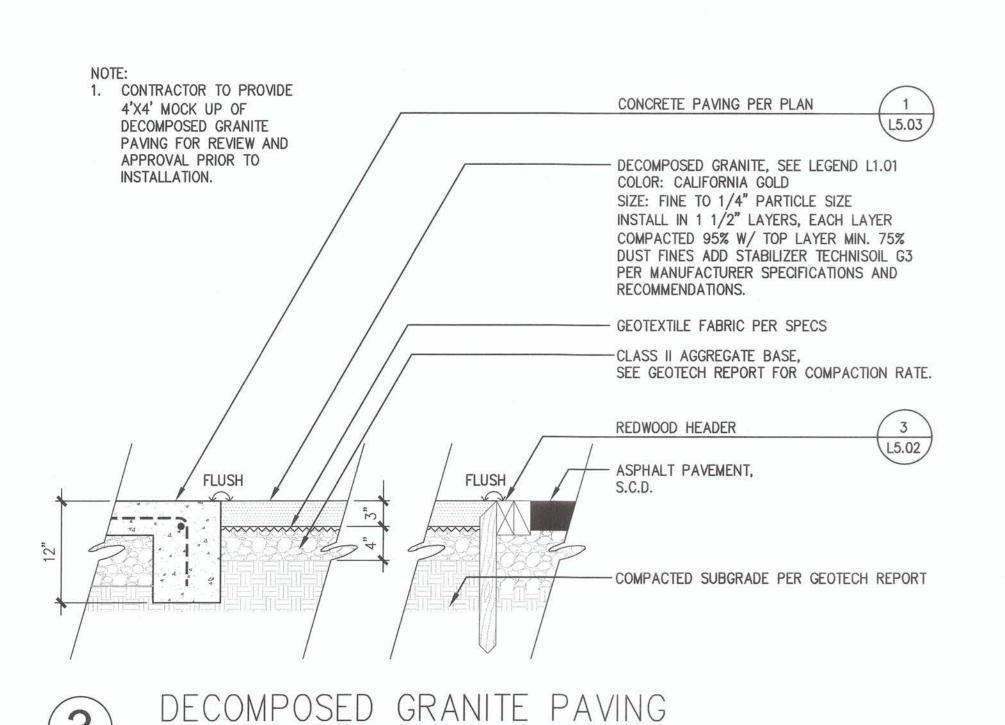
4. SYNTHETIC PLAY SURFACING, SEE LEGEND L1.01

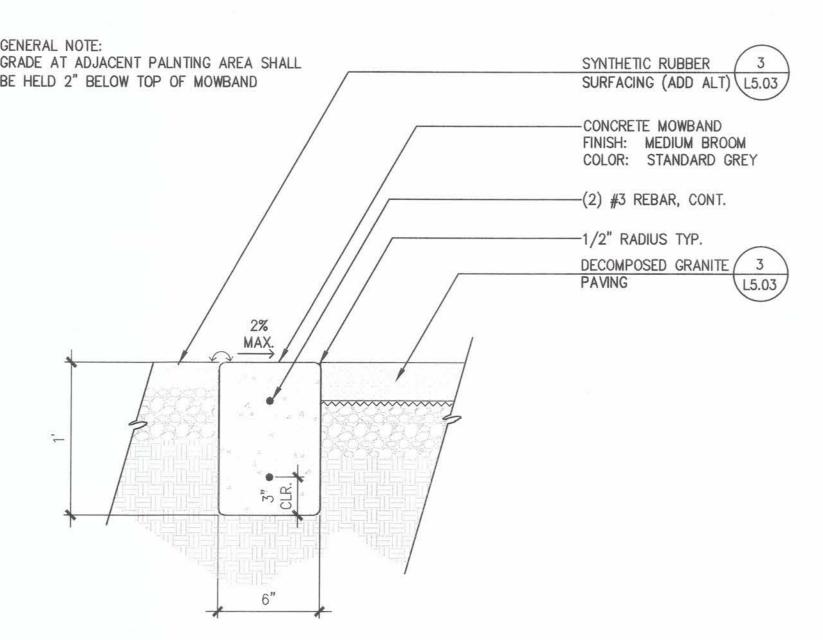
SCALE: 1" = 1'-0"

5. SEE DETAIL 4/L5.05 FOR FITNESS EQUIPMENT SUBGRADE INFO



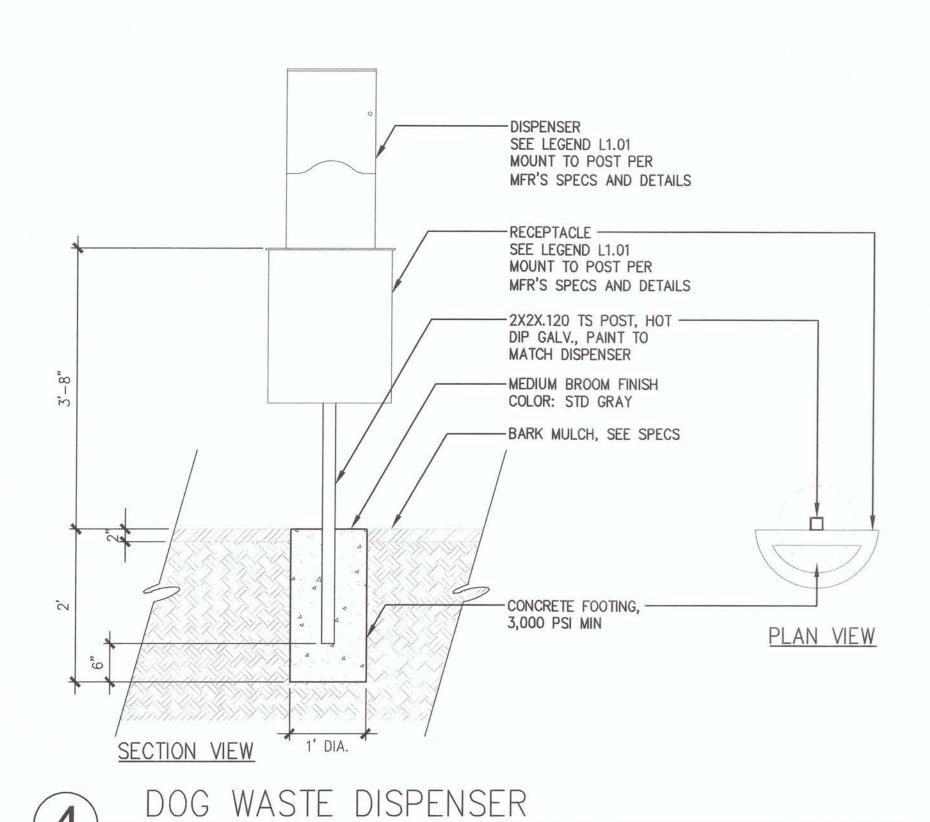
SYNTHETIC RUBBER SURFACING (ADD ALT)



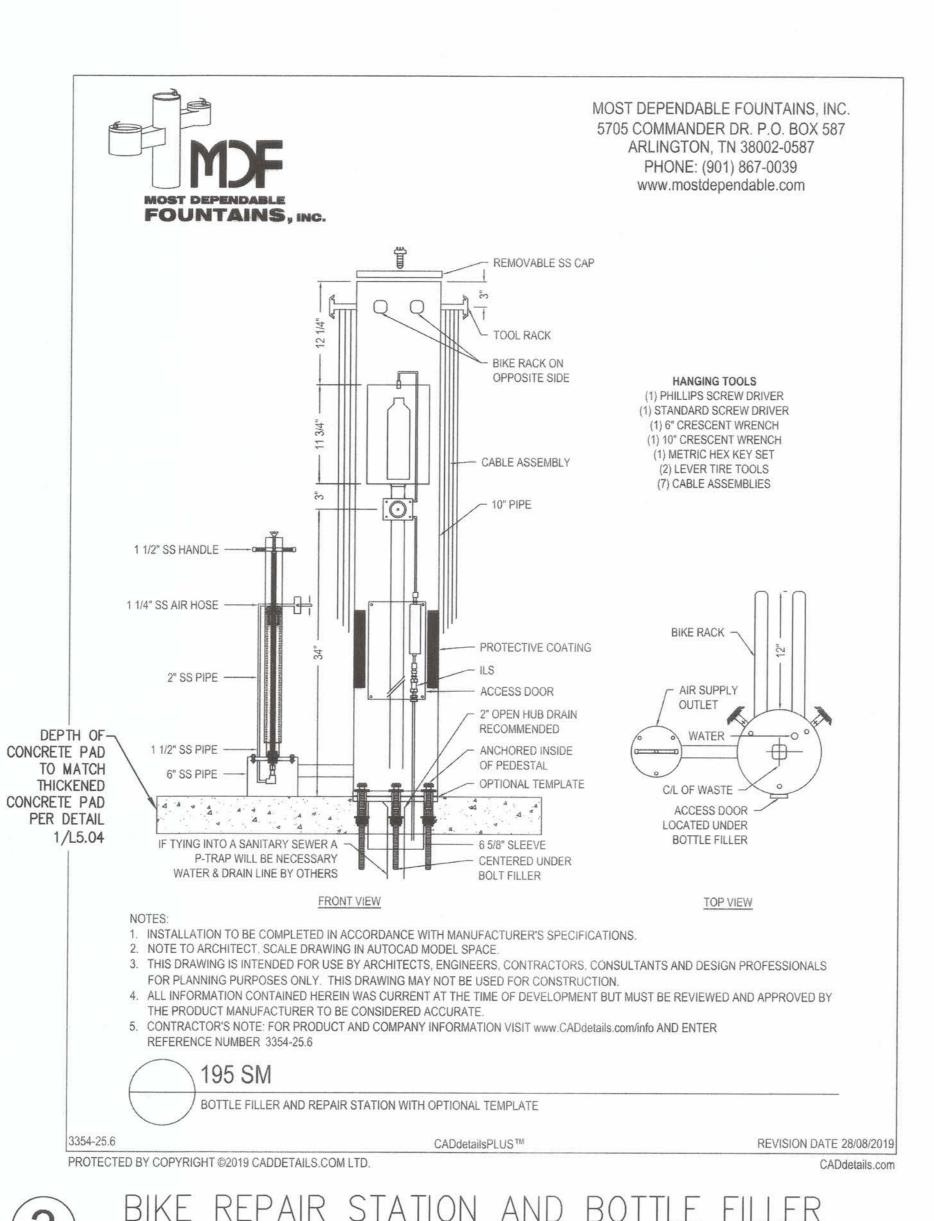






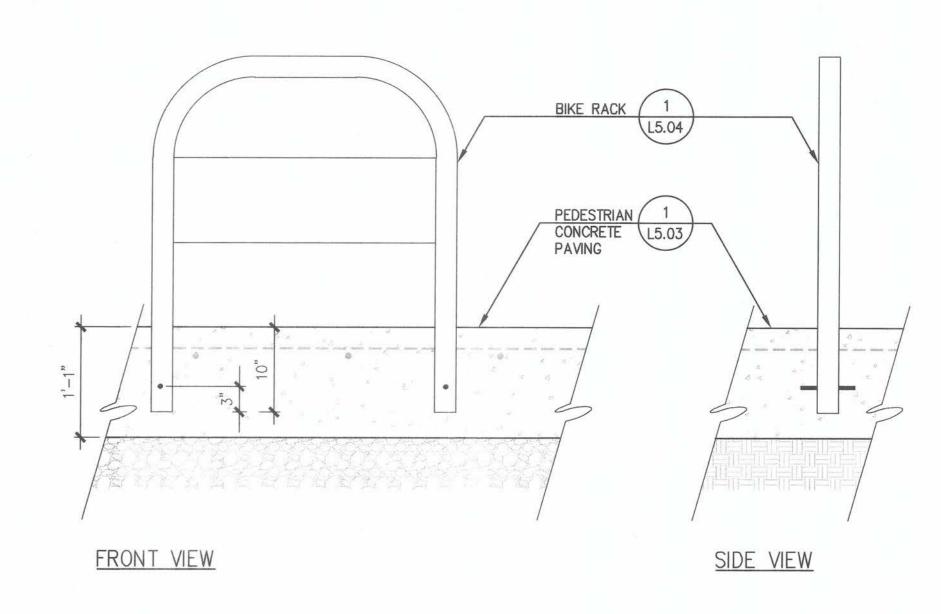


SCALE: 3/4" = 1'-0"

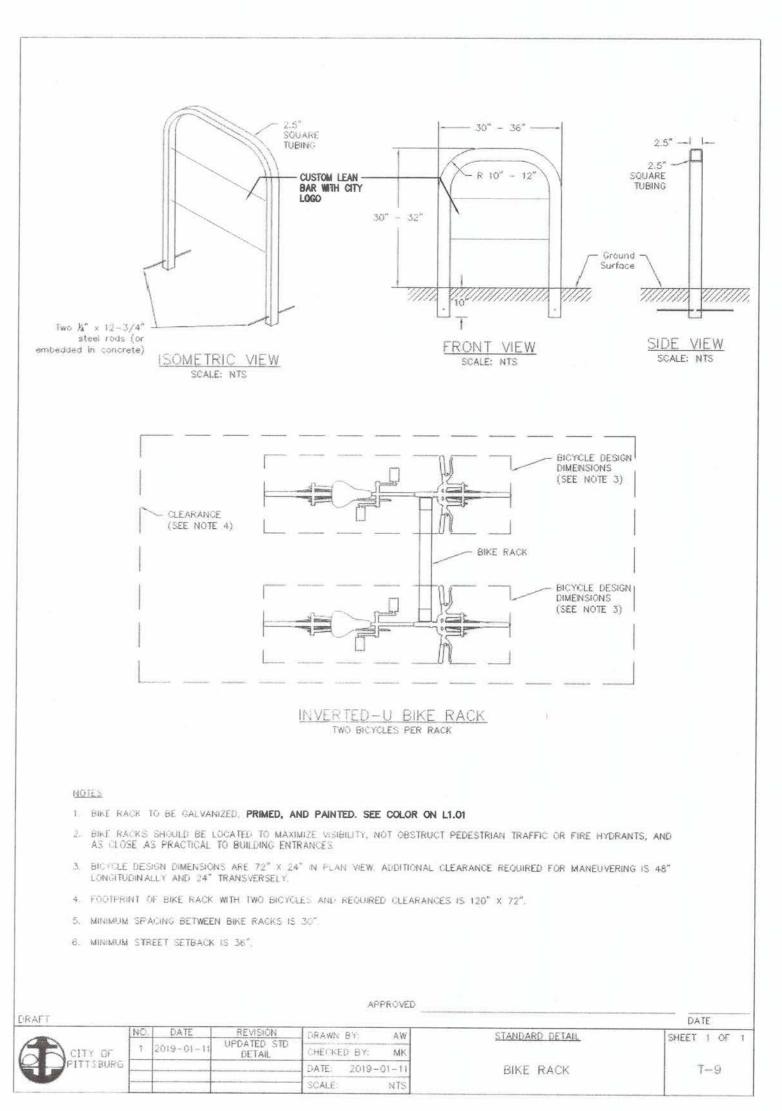


BIKE REPAIR STATION AND BOTTLE FILLER

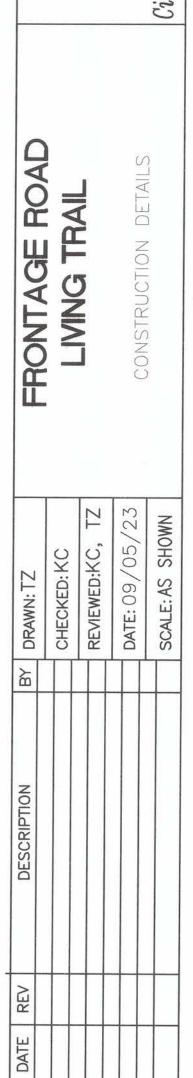
SCALE: 1" = 1"



BIKE RACK ELEVATION SECTION SCALE: 1" = 1'-0"







SHEET NO.

58 **OF** 59

DWG. NO.

L5.04

PROJECT NAME FITNESS ZONE

The fitness equipment is designed for your enjoyment. For your safety, we ask you to comply with the following:

- 1 You assume all risk and responsibility for use of the exercise equipment at this facility
- 2 You must be at least 14 years old to use this equipment.
- 3 Parents/Guardians: To avoid injuries, do not let your underage children use the equipment.
- 4 Consult your physician prior to starting any physical fitness training program. 5 The city does not provide any supervision for the use of the equipment.
- 6 Any potential users with known adverse health conditions should not use this equipment.
- 7 Before using the equipment, check for loose parts, breaks, cracks or other conditions needing attention. If any abnormalities are noticed, do not use the equipment. Please call ###-#####.
- 8 Only use equipment for the intended exercise. Perform exercises according to instructions on each piece of equipment.
- 9 Breathe normally during physical activity.
- 10 Perform resistance exercises according to instructions in a slow, controlled manner over the full range of motion. Performing the movements too quickly may result in an injury.
- 11 During exercise, pay attention to how your body feels. If pain or discomfort occurs, STOP THE EXERCISE IMMEDIATELY.
- 12 Rest and recovery are important between sets and exercises. Please allow 2 minutes of rest between exercises.
- 13 Keep a safe distance from exercise equipment when in use by others. Keep clear of moving part
- and be aware of the presence of others when using equipment 14 Remove helmets, drawstrings, or accessories around the neck.
- 15 Be aware of the possibility of hot surfaces and/or surfacing, when applicable.
- 16 Do not climb or allow climbing on the equipment or structures unless the intended use involves
- 17 Do not attach straps, bands or similar items to the equipment unless the intended use specifically
- 18 Equipment is designed to support users up to 300 lbs

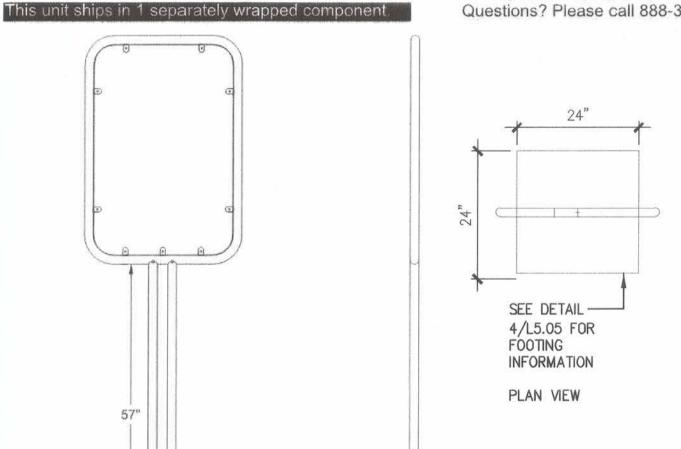
ANNOUNCMENT BOARD DESCRIPTION SHALL BE REVIEWED AND APPROVED BY THE CITY OF PITTSBURG

PRIOR TO FABRICATION.

Installation Instructions: SGR2005-1-105

Announcement Board





FRONT ELEVATION

 ANNOUNCMENT BOARD DESCRIPTION SHALL BE REVIEWED AND APPROVED BY THE CITY OF PITTSBURG

PRIOR TO

FABRICATION.



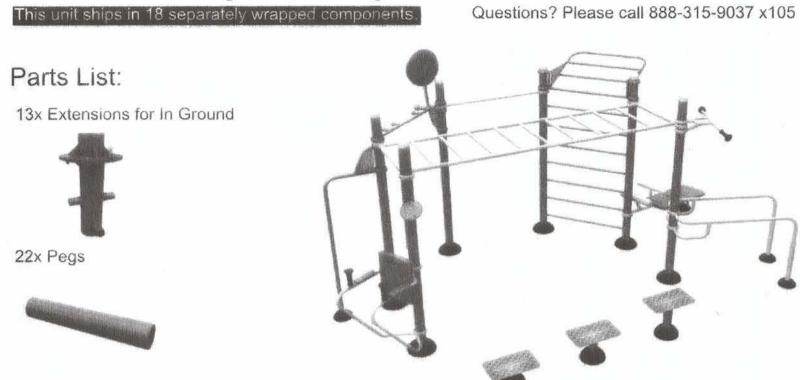
During installation, please be sure to also refer to the general installation instructions for surface mount In order to honor our commitment to quality and safety, Greenfields Outdoor Fitness reserves the right to make changes and revise the design specifications without notice.

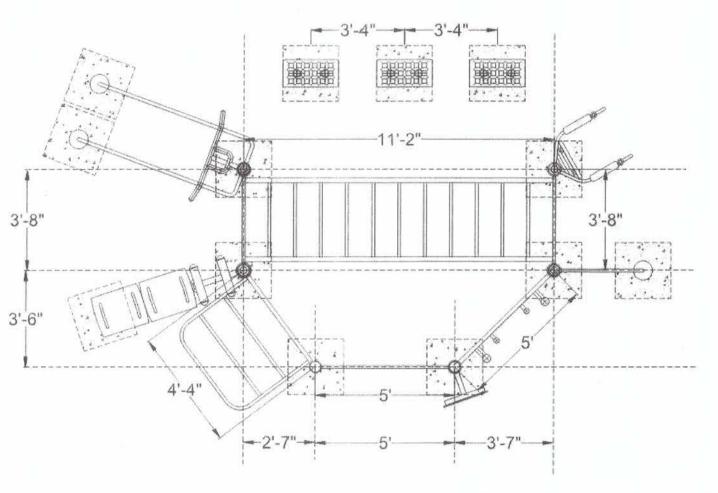
ANNOUNCEMENT BOARD (ADD ALT)

Installation Instructions:

SHP520 12-Person Challenge Fitness Rig

Questions? Please call 888-315-9037 x105



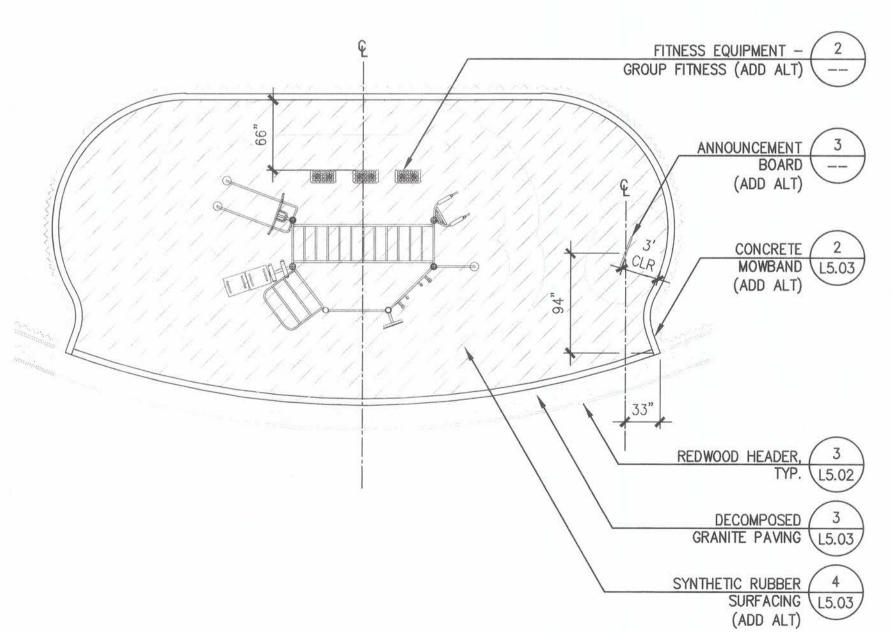


During installation, please be sure to also refer to the general installation instructions.

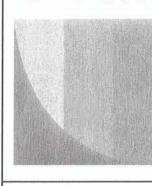
In order to honor our commitment to quality and safety. Greenfields Outdoor Fitness reserves the right to make changes and revise the design specifications without notice.

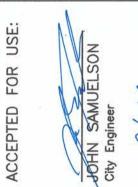
© 2020 Greenfields Outdoor Fitness, Inc LU20x5x20

FITNESS EQUIPMENT - GROUP FITNESS (ADD ALT)



FITNESS EQUIPMENT LAYOUT (ADD ALT)







SHEET NO. 59 **OF** 59

DWG. NO. L5.05

FITNESS EQUIPMENT FOOTING AND ATTACHMENT (ADD ALT)

SCALE: 1-1/2" = 1'-0"

FITNESS EQUIPMENT, HARDWARE PER MFR

INSTALL SYNTHETIC RUBBER SURFACING OR DECOMPOSED

GRANITE PAVING OVER HARDWARE PER MFR

#4 REBAR 10" O.C., BW

ANGULAR SONE

92% COMPACTION

INSTALL IN 2" LIFTS

6" MIN PERMEABLE BASE ROCK CALTRANS CLASS II CRUSHED

SUBMIT SAMPLE FOR APPROVAL