



**Agenda Item No. 7g.**

### **Staff Report**

**Date:** April 4, 2024  
**To:** Mayor Brekhus and Council Members  
**From:** Richard Simonitch, Public Works Director  
**Subject:** Laurel Grove Safe Pathways Phase IIB Project

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#### **Recommendation**

It is recommended that the Town Council approve the Laurel Grove Safe Pathways Phase IIB Project (the “Project”) and authorize staff to advertise for construction bids.

#### **Background & Discussion**

The Project will extend the recently completed Laurel Grove Safe Pathways Phase IIA roadway improvements and pedestrian pathway from the intersection of Monte Alegria up to and including the intersection of Canyon Road. The project consists of 12,250 square feet of pavement grind and asphalt overlay, a new concrete retaining wall with decorative façade, new lane striping, signage, and patterned, colorized pavement markings. 360 feet of 5-foot to six-foot wide pedestrian pathway will be constructed from the terminus of the existing pathway across from Monte Alegria to a location just opposite the Canyon Road intersection. A set of Construction Drawings are attached with this staff report.

#### **Fiscal, resource and timeline impacts**

The engineer’s estimate is \$496,900 for the base bid. Because of the estimated cost of the project, the formal bidding procedure will be used. If approved to advertise for construction bids, staff expects to recommend award of the project to the lowest responsive and responsible bidder at the June 2024 Town Council meeting and begin construction shortly thereafter.

#### **Environmental review**

The project is categorically exempt under the California Environmental Quality Act (CEQA) Article 19, Section 15301 existing facilities (existing highways and streets).

#### **Attachments**

- Project Plans

# CONSTRUCTION DRAWINGS FOR

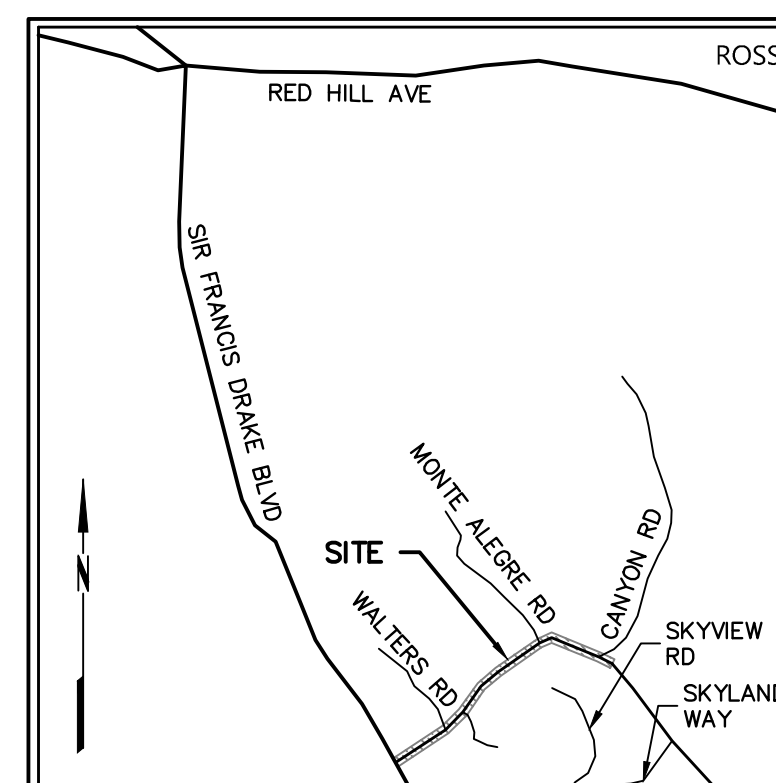
# LAUREL GROVE AVENUE

## SAFE PATHWAY TO SCHOOL

## PHASE II-B

## TOWN OF ROSS, CALIFORNIA

MARCH 2024



**VICINITY MAP**  
NOT TO SCALE

**SYMBOLS & LEGEND**

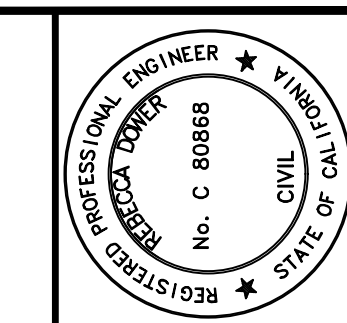
EXISTING	PROPOSED	
		BENCHMARK
		IRON PIPE CENTERLINE MONUMENT
		BLOW OFF VALVE BACKFLOW PREVENTION DEVICE
		FIRE HYDRANT STREET LIGHT
		STREET SIGN UTILITY POLE
		GUY ANCHOR CATCH BASIN
		SEWER MANHOLE TELECOMMUNICATION MANHOLE
		GAS MANHOLE TREE
		TREE TO BE REMOVED PROPERTY LINE
		EASEMENT CENTERLINE
		FLOW LINE FENCE
		SANITARY SEWER STORM DRAIN
		WATER OVERHEAD UTILITY LINE
		UNDERGROUND UTILITY LINE UNDERGROUND ELECTRIC LINE
		UNDERGROUND GAS LINE UNDERGROUND TELECOM LINE
		DEMOLISH MATERIAL ASPHALT GRIND & OVERLAY
		ASPHALT (INCL. AC PLUG) CONFORM GRIND
		CONCRETE EXPOSED AGGREGATE CONCRETE
		COLORIZED PAVEMENT (STAMPED) KEYNOTE
		DETAIL IDENTIFICATION SHEET WHERE DETAIL IS SHOWN

**INDEX OF DRAWINGS**

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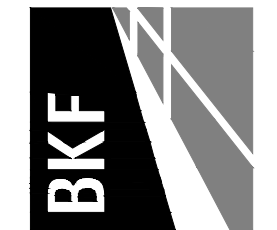
**ABBREVIATIONS**

±	MORE OR LESS (CONFORM TO EG)	MH	MANHOLE
AB	AGGREGATE BASE	MIN	MINIMUM
AC	ASPHALT CONCRETE	NO	NUMBER
APN	ASSESSOR'S PARCEL NUMBER	NTS	NOT TO SCALE
BFP	BACKFLOW PREVENTER	OH	OVERHEAD UTILITY LINE
BLRD	BOLLARD	PL	PROPERTY LINE
BM	BENCHMARK	PUE	PUBLIC UTILITY EASEMENT
CB	CATCH BASIN	PVT	PRIVATE
CL	CENTERLINE	R	RADIUS
CL2	CLASS II	RCP	REINFORCED CONCRETE PIPE
CO	CLEAN OUT	RSPR	RIPRAP ROCK SLOPE PROTECTION
CONC	CONCRETE	RTWL	RETAINING WALL
CY	CUBIC YARD	R/W	RIGHT OF WAY
DDC	DOUBLE DETECTOR CHECK	S=	SLOPE
DI	DROP INLET	SD	STORM DRAIN
DIA	DIAMETER	SDMH	STORM DRAIN MANHOLE
DN	DOCUMENT NUMBER	SF	SQUARE FEET
DW	DRIVEWAY	SL	STREETLIGHT
E	ELECTRIC	SS	SANITARY SEWER
EG	EXISTING GROUND	SSMH	SANITARY SEWER MANHOLE
ELEV	ELEVATION	STA	STATION
EP	EDGE OF PAVEMENT	STD	STANDARD
ESMT	EASEMENT	TB	TOP OF BOX
EX	EXISTING	TC	TOP FACE OF CURB
FG	FINISHED GRADE	TEL	TELECOMMUNICATION LINE
FH	FIRE HYDRANT	TF	TRANSFORMER
FL	SURFACE FLOWLINE	TG	TOP OF GRATE
FT	FOOT	TW	TOP OF WALL
G	GAS	TYP	TYPICAL
GB	GRADE BREAK	UB	UTILITY BOX
GI	GRATE INLET	UP	UTILITY POLE
GM	GAS METER	UT	UNDERGROUND UTILITY LINE
HORZ	HORIZONTAL	VC	VERTICAL CURVE
HT	HEIGHT	VERT	VERTICAL
IN	INSTRUMENT NUMBER	VLT	VAULT
INV	BOTTOM INSIDE OF PIPE	W	WATER
L	LENGTH	WM	WATER METER
MAX	MAXIMUM		



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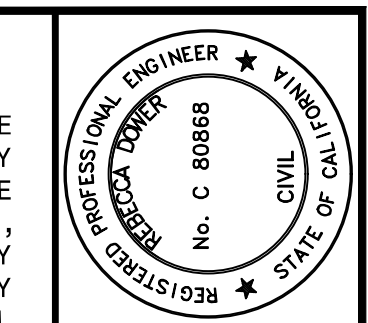
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**LAUREL GROVE AVENUE - SAFE PATHWAY TO SCHOOL**  
PHASE II-B  
TOWN OF ROSS, CALIFORNIA  
**COVER SHEET**

Date	Scale	Design	Drawn	Approved	Job No.
MARCH 2024	AS SHOWN	IC	IC	BD	20210182-10

Drawing Number:  
**CV-1**  
1 OF 12



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**LAUREL GROVE AVENUE - SAFE PATHWAY TO SCHOOL**  
PHASE I-B  
TOWN OF ROSS, CALIFORNIA  
**GENERAL NOTES**

Date: MAR03 2024	No.	Revisions
Scale: AS SHOWN		
Design: IC		
Drawn: IC		
Approved: BD		
Job No: 20210182-10		

Drawing Number:  
**GN-1**  
2 OF 12

GENERAL NOTES

FURNISH AND INSTALL MATERIALS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE CITIES AND COUNTY OF MARIN DATED JUNE 1992, THE UNIFORM CONSTRUCTION STANDARDS OF THE CITIES AND COUNTY OF MARIN DATED MAY 2008 AND THE CALTRANS STANDARD PLANS (CURRENT EDITION) AND CALTRANS STANDARD DRAWINGS AND SPECIFICATIONS (CURRENT EDITION).

OBTAIN AND PAY FOR ALL CONSTRUCTION PERMITS REQUIRED BY THE TOWN OF ROSS DEPARTMENT OF PUBLIC WORKS, COUNTY OF MARIN DEPARTMENT OF PUBLIC WORKS (SUCH AS ENCROACHMENT, GRADING, DEMOLITION ETC.) PRIOR TO COMMENCEMENT OF WORK. A TRAFFIC CONTROL PLAN MUST BE SUBMITTED FOR APPROVAL PRIOR TO BEGINNING ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY.

TEMPORARY STOCKPILES SHALL NOT BE LOCATED WITHIN CREEK SETBACK AREAS, PROTECTED VEGETATION/TREE AREAS OR WITHIN 10-FEET OF AN ADJACENT RESIDENTIAL PROPERTY LINE. STOCKPILES TALLER THAN 2.5-FOOT SHALL NOT BE WITHIN 50-FOET OF AN ADJACENT RESIDENTIAL PROPERTY LINE.

IF CONTAMINATED MATERIAL IS ENCOUNTERED DURING CONSTRUCTION, WORK MUST STOP UNTIL A WORK PLAN HAS BEEN APPROVED IN WRITING BY THE TOWN OF ROSS, COUNTY OF MARIN AND THE SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD. HAZARDOUS MATERIAL SHALL BE REMOVED AND DISPOSED OF ACCORDING TO THE REQUIREMENTS OF THE TOWN OF ROSS AND COUNTY OF MARIN.

SPOILS SHALL BE REMOVED AS THEY ARE GENERATED OR DISPOSED OF ON SITE. EXCESS/UNSUITABLE MATERIAL DISPOSED OF OFFSITE SHALL BE AT A LOCATION APPROVED BY THE TOWN OF ROSS. CONTAIN AND SECURELY PROTECT STOCKPILED BACKFILL AND WASTE MATERIAL FROM WIND AND RAIN AT ALL TIMES UNLESS ACTIVELY BEING USED. DO NOT BLOCK STORM WATER FLOWS.

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONSTRUCTION CONTRACTOR FURTHER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE DESIGN PROFESSIONAL, THE OWNER AND THEIR CONSULTANTS, THE TOWN OF ROSS, THE COUNTY OF MARIN, AND EACH OF THEIR OFFICERS, EMPLOYEES, AND AGENTS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

THE LOCATIONS OF UNDERGROUND OBSTRUCTIONS SHOWN ON THESE DRAWINGS ARE APPROXIMATE ONLY AND SHOULD NOT BE TAKEN AS FINAL OR ALL INCLUSIVE. THE CONTRACTOR IS CAUTIONED THAT THESE DRAWINGS MAY NOT INCLUDE ALL EXISTING UTILITIES INCLUDING SEWERS AND STORM DRAINS, AND THAT THE OWNER, THE TOWN OF ROSS, THE COUNTY OF MARIN AND THE DESIGN PROFESSIONAL ASSUME NO RESPONSIBILITY FOR OBSTRUCTIONS WHICH MAY BE ENCOUNTERED.

EXPOSE ALL EXISTING UTILITIES INCLUDING SEWERS AND STORM DRAINS PRIOR TO ANY TRENCHING TO ALLOW THE DESIGN PROFESSIONAL TO VERIFY THE GRADE AND ALIGNMENT OF THE UTILITIES, AND TO VERIFY DESIGN ASSUMPTIONS AND EXACT FIELD LOCATIONS. EXISTING UTILITIES MAY REQUIRE RELOCATION AND/OR PROPOSED IMPROVEMENTS MAY REQUIRE GRADE OR ALIGNMENT REVISION DUE TO FIELD CONDITIONS.

PROPERLY MUFFLE EQUIPMENT AND LIMIT CONSTRUCTION HOURS TO 7:00 AM TO 6:00 PM MONDAY THROUGH FRIDAY, AND 9:00 AM TO 6:00 PM ON SATURDAY, EXCLUDING HOLIDAYS. THIS RESTRICTION INCLUDES THE STARTUP OF MOTOR VEHICLES AND OTHER HEAVY EQUIPMENT.

REPAIR DAMAGE OR DETERIORATION OCCURRING TO EXISTING PUBLIC IMPROVEMENTS AS A DIRECT RESULT OF CONSTRUCTION ACTIVITY (GRADING, ROAD CONSTRUCTION, UTILITY INSTALLATION, ETC.), REPAIR MAY REQUIRE PATCHING, SEALING OR OVERLAYING AFFECTED AREAS AS APPROPRIATE TO RETURN THE ROADS TO AT LEAST AS GOOD A CONDITION AS THEY WERE PRIOR TO CONSTRUCTION. IF THE CONTRACTOR DOES NOT ACT IN A TIMELY MANNER, THE CITY MAY, AT ITS DISCRETION PERFORM THE CORRECTION AND CHARGE THE CONTRACTOR FOR ALL COSTS AND OVERHEAD INCURRED.

PROVIDE AS-BUILT DRAWINGS TO THE TOWN OF ROSS UPON COMPLETION OF PROJECT AND PRIOR TO FINAL ACCEPTANCE.

ADA COMPLIANCE: COMPLY WITH THE REQUIREMENTS OF THE AMERICAN WITH DISABILITIES ACT (ADA) WHILE WORKING IN THE PUBLIC RIGHT-OF-WAY. IF CONSTRUCTION CONTRACTOR'S WORK IN THE PUBLIC RIGHT-OF-WAY WILL AFFECT PEDESTRIAN ACCESS, THE CONSTRUCTION CONTRACTOR IS REQUIRED TO PROVIDE A PROPERLY SIGNED ACCESSIBLE ROUTE OF TRAVEL. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

IN THE EVENT THAT ANY REMAINS OF PREHISTORIC OR HISTORIC HUMAN ACTIVITIES ARE ENCOUNTERED DURING PROJECT-RELATED ACTIVITIES, WORK IN THE IMMEDIATE VICINITY OF THE FINDS SHALL HALT AND THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT SUPERINTENDENT AND THE PROJECT INSPECTOR. WORK SHALL NOT RESUME UNTIL A QUALIFIED ARCHAEOLOGIST OR HISTORIC ARCHAEOLOGIST, AS APPROPRIATE, APPROVED BY THE TOWN OF ROSS AND/OR COUNTY OF MARIN, HAS EVALUATED THE SITUATION AND MADE RECOMMENDATIONS FOR TREATMENT OF THE RESOURCE, AND WHOSE RECOMMENDATIONS ARE CARRIED OUT. IF HUMAN BURIAL REMAINS ARE ENCOUNTERED, THE CONTRACTOR MUST ALSO CONTACT THE MARIN COUNTY CORONER.

GRADING NOTES

NO GRADING, CLEARING OR GRUBBING SHALL BE PERFORMED PRIOR TO ISSUANCE OF AN ENCROACHMENT PERMIT BY THE TOWN OF ROSS DEPARTMENT OF PUBLIC WORKS, COUNTY OF MARIN DEPARTMENT OF PUBLIC WORKS AND CALTRANS.

PROVIDE DUST CONTROL THROUGHOUT THE DURATION OF THE CONSTRUCTION PROJECT TO MINIMIZE AIRBORNE POLLUTANTS.

PERFORM GRADING IN ACCORDANCE WITH CHAPTER 18 AND APPENDIX J OF THE CALIFORNIA BUILDING CODE (THE VERSION IN EFFECT AS ADOPTED BY CITY AT THE TIME OF PERMIT ISSUANCE), UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER AND IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT, PREPARED BY MILLER PACIFIC GROUP, INC. DATED SEPTEMBER 2, 2021.

DO NOT BLOCK DRAINAGE FROM UPSTREAM PROPERTIES WITH GRADING OR CONSTRUCTION OF IMPROVEMENTS.

PROTECT EXISTING DRAINAGE FACILITIES FROM SEDIMENTATION DURING ALL PHASES OF CONSTRUCTION.

REMOVE AND DISPOSE OF HAZARDOUS MATERIAL ACCORDING TO THE REQUIREMENTS OF THE TOWN OF ROSS FIRE DEPARTMENT.

DRIP LINES OF TREES OVERHANGING THE PROPERTY LINE SHALL BE AFFORDED THE SAME LEVEL OF PROTECTION AS TREES THAT ARE TO REMAIN.

UTILITY NOTES

ALL STORM DRAIN SHOWN "S.D." SHALL BE R.C.P. UNLESS OTHERWISE NOTED. RCP STORM DRAIN SHALL BE CLASS IV UNLESS OTHERWISE SHOWN ON THE DRAWINGS. IF PIPE MATERIAL IS CHANGED, THEN, DRAWING REVISIONS MAY BE REQUIRED.

UTILITY TRENCHING SHALL BE IN ACCORDANCE WITH COUNTY OF MARIN UNIFORM CONSTRUCTION STANDARD 330.

ALL STORM DRAIN PIPE LENGTHS SHOWN ARE MEASURED HORIZONTALLY FROM CENTER OF STRUCTURES.

STORM DRAIN SYSTEM SHALL BE KEPT FREE OF DIRT AND DEBRIS DURING ALL PHASES OF CONSTRUCTION. IT IS NOT ALLOWED TO WASH DIRT/DEBRIS DOWNSTREAM IN PIPES.

STRIPING AND SIGNING NOTES

REPLACE STRIPING THAT IS REMOVED TO FACILITATE THE PROPOSED IMPROVEMENTS.

INSTALL STRIPING AND SIGNING IN ACCORDANCE WITH CALIFORNIA MUTCD REQUIREMENTS. MATERIALS SHALL BE FURNISHED BY THE CONTRACTOR.

STRIPING, PAVEMENT MARKING AND SIGNING SHALL CONFORM TO THE CALTRANS STANDARD PLANS AND THE CALIFORNIA MUTCD (CURRENT EDITIONS).

NOTIFY THE CITY ENGINEER A MINIMUM OF 48-HOURS PRIOR TO THE DAY OF LAYOUT OF THE PROPOSED SIGNING AND STRIPING.

ACCEPT RESPONSIBILITY FOR LAYOUT AND CAT TRACKING OF ALL PROPOSED STRIPING AND MARKING. PERFORM CAT TRACKING A MINIMUM OF 48-HOURS PRIOR TO PROPOSED STRIPING AND MARKING TO ALLOW THE CITY ENGINEER TIME FOR REVIEW AND APPROVAL.

REMOVE EXISTING STRIPING AND MARKING BY GRINDING.

INSTALL SIGNING AND STRIPING CONCURRENTLY.

SURVEY NOTES

TREE TRUNK DIAMETERS ARE REFLECTED GRAPHICALLY AND WERE MEASURED AT CHEST HEIGHT (±48 INCHES). DRILINE DIAMETERS AND TREE SPECIES ARE APPROXIMATE ONLY. CONSULT A CERTIFIED TREE ARBORIST WHEN IT IS NECESSARY TO ACCURATELY DETERMINE PERTINENT TREE INFORMATION.

PRESERVE AND PERPETUATE EXISTING SURVEY MONUMENTATION WHICH WILL BE DISTURBED OR REMOVED TO FACILITATE THE PROPOSED IMPROVEMENTS. IF WORK WILL BE CONDUCTED IN AN AREA WHICH RESULTS IN THE DISTURBANCE OF MONUMENTATION, RETAIN THE SERVICES OF A LICENSED LAND SURVEYOR TO LOCATE SAID MONUMENTATION PRIOR TO DISTURBANCE. ADDITIONALLY, RETAIN THE SERVICES OF A LICENSED LAND SURVEYOR TO RE-ESTABLISH MONUMENTATION WHICH HAS BEEN DISTURBED AS A RESULT OF PROJECT CONSTRUCTION AND TO FILE THE APPROPRIATE DOCUMENTATION, PURSUANT TO BUSINESS AND PROFESSIONS CODE SECTION 8771, WITH THE MARIN COUNTY RECORDER ONCE CONSTRUCTION IS COMPLETE.

TOPOGRAPHIC INFORMATION SHOWN HEREON WAS MAPPED BY FOLLOWING FIELD SURVEYS BY L.A. STEVENS & ASSOCIATES, INC. FROM MAY 2020 THROUGH NOVEMBER 2020 PROVIDED TO BKF BY THE TOWN OF ROSS.

ALL MEASURED DISTANCES ARE IN GRID FEET AND DECIMALS THEREOF MULTIPLY BY 1.00003020 TO APPROXIMATE GROUND DISTANCES.

TEMPORARY BENCHMARK: MAG NAIL AND WASHER IN SIDEWALK STAMPED "LA STEVENS CONTROL", LOCATION SHOWN HEREON.  
ELEVATION (NAVD88): 32.64'

BENCHMARK: ELEVATION ESTABLISHED BY GPS RELATIVE POSITIONING FROM NATIONAL GEODETIC SURVEY (NGS) CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS). STATIONS USED WERE OHLN, P181, P198, P261, AND T11B.

BASIS OF BEARING: THE BASIS OF BEARINGS OF THIS SURVEY IS S31°46'44"W, ROTATED CLOCKWISE 01°38'25" FROM 2008 RS 150 BETWEEN FOUND 2"x2" HUB AND FOUND 2" BRASS DISK STAMPED "RC-1".

EROSION AND SEDIMENT CONTROL NOTES

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE USED TO ENSURE THAT WATER ENTERING THE STORM DRAIN SYSTEM FROM THE CONSTRUCTION SITE IS OF EQUIVALENT QUALITY AND CHARACTER AS THE WATER ABOVE THE SITE.

KEEP THE WORK SITE, STAGING AREAS AND OTHER AREAS USED BY THE CONTRACTOR IN A NEAT AND CLEAN CONDITION, AND FREE FROM ANY ACCUMULATION OF TRASH. DISPOSE OF ALL TRASH, RUBBISH AND WASTE MATERIALS OF ANY KIND GENERATED BY THE CONTRACTOR, SUBCONTRACTOR OR ANY COMPANY HIRED BY THE CONTRACTOR ON A DAILY BASIS. KEEP HAUL ROADS FREE FROM DIRT, RUBBISH, AND UNNECESSARY OBSTRUCTIONS RESULTING FROM SITE OPERATION. DISPOSE OF ALL TRASH, RUBBISH AND DEBRIS MATERIALS IN A COVERED WASTE RECEPTACLE OR HAUL OFF SITE, IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES GOVERNING LOCATIONS AND METHODS OF DISPOSAL, AND IN CONFORMANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. COVER WASTE RECEPTACLES AT THE END OF EVERY DAY AND DURING RAIN EVENTS.

MAINTAIN A CLEAN CONSTRUCTION SITE TO PREVENT THE INTRODUCTION OF FOREIGN MATERIALS INTO THE STORM WATER CONVEYANCE SYSTEM. ACTIVITY DURING CONSTRUCTION WHICH RESULTS IN THE DISCHARGE OF POLLUTANTS TO THE STORM WATER CONVEYANCE SYSTEM IS IN VIOLATION OF THE TOWN OF ROSS CODE OF ORDINANCES AND THE SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD'S REGULATIONS.

PROVIDE CONTAINMENT FOR SANITATION FACILITIES (E.G., PORTABLE TOILETS) TO PREVENT DISCHARGES OF POLLUTANTS TO THE STORM WATER DRAINAGE SYSTEM, ROADS OR RECEIVING WATERS. SANITATION FACILITIES MUST BE MAINTAINED PERIODICALLY BY A LICENSED SERVICE COMPANY TO KEEP THEM IN GOOD WORKING ORDER AND PREVENT OVERFLOWS. PORTABLE TOILETS ARE REQUIRED TO HAVE SECONDARY CONTAINMENT.

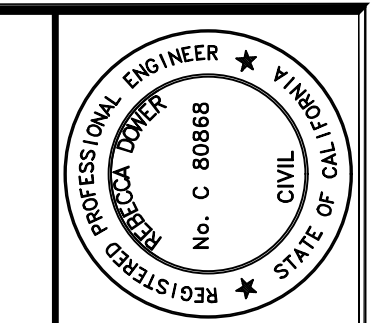
EQUIPMENT AND MATERIALS NECESSARY FOR CONTROL OF SPILLS SHALL BE AVAILABLE ON SITE AT ALL TIMES. SPILLS AND LEAKS SHALL BE STOPPED AND THE MATERIAL CLEANED UP IMMEDIATELY AND DISPOSED OF PROPERLY. USE PROPER BEST MANAGEMENT PRACTICES (BMPs) TO PREVENT OIL, GREASE, OR FUEL FROM LEAKING ON THE GROUND, INTO THE STORM DRAINS OR SURFACE WATERS.

CONTAIN CONCRETE WASHOUT AREAS AND SIMILAR AREAS THAT MAY CONTAIN POLLUTANTS TO PREVENT DISCHARGE INTO THE UNDERLYING SOIL OR ONTO THE SURROUNDING AREAS.

ESTABLISH AND MAINTAIN EFFECTIVE SITE PERIMETER CONTROLS AND STABILIZE ALL CONSTRUCTION ENTRANCES AND EXITS TO SUFFICIENTLY CONTROL EROSION AND SEDIMENT DISCHARGES AND TRACKED MATERIALS FROM LEAVING THE SITE. AT A MINIMUM DAILY AND PRIOR TO ANY RAIN EVENT, THE CONTRACTOR SHALL REMOVE ANY SEDIMENT OR OTHER CONSTRUCTION ACTIVITY RELATED MATERIALS THAT ARE DEPOSITED ON THE ROADS (BY VACUUMING OR SWEEPING).

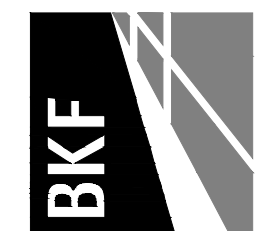
PLACE EQUIPMENT OR VEHICLES WHICH ARE BEING FUELED, MAINTAINED AND STORED, IN A DESIGNATED AREA FITTED WITH APPROPRIATE BMPs.

AT A MINIMUM, ALL BMPs SHALL BE INSPECTED EACH WORKING DAY AND BEFORE ALL RAIN EVENTS. BMPs THAT REQUIRE MAINTENANCE OR REPLACEMENT TO FUNCTION PROPERLY SHALL BE COMPLETED BEFORE THE NEXT FORECASTED RAIN, OR WITHIN THE NEXT THREE (3) WORKING DAYS IF NO RAIN IS PREDICTED. MAINTENANCE INCLUDES REMOVAL OF ACCUMULATED SEDIMENT AND TRASH.



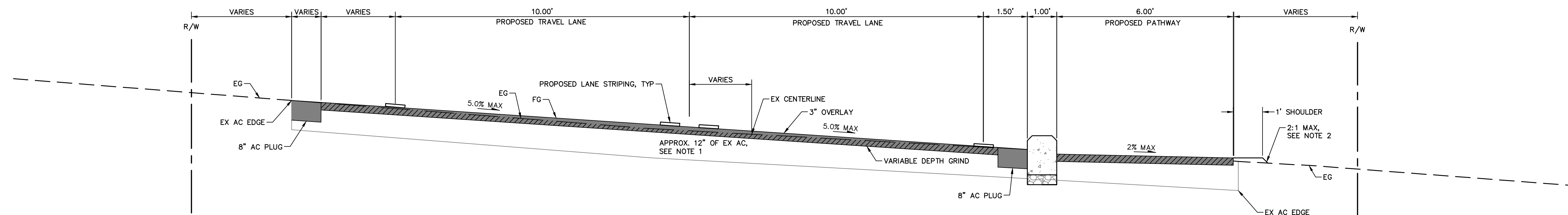
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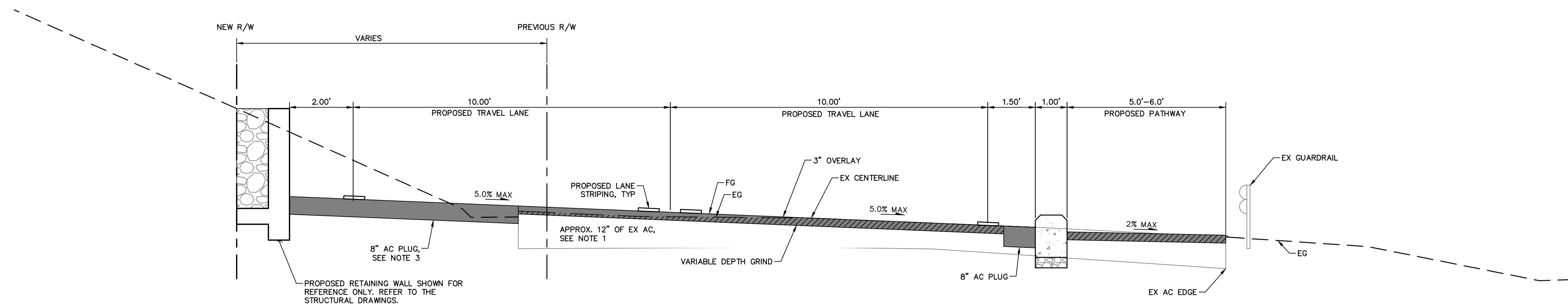


**LAUREL GROVE AVENUE - SAFE PATHWAY TO SCHOOL**  
PHASE I-B  
TOWN OF ROSS, CALIFORNIA

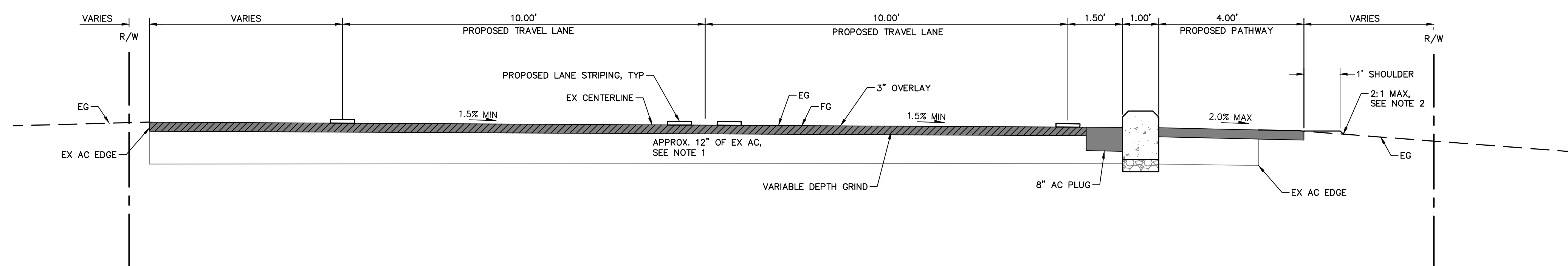
**TYPICAL ROADWAY SECTIONS**



**TYPICAL SECTION 1**  
STA 23+15.83 TO STA 24+45.04



**TYPICAL SECTION 2**  
STA 24+45.04 TO STA 25+45.43

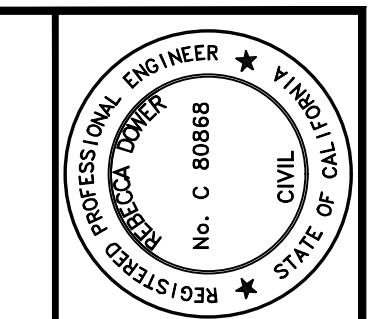


**TYPICAL SECTION 3**  
STA 25+45.43 TO PATHWAY END

- NOTES**
- REFER TO THE PROJECT GEOTECHNICAL REPORT FOR ESTIMATED EXISTING PAVEMENT SECTION.
  - WHEN THE FINISHED GRADE OF THE PROPOSED BACK OF SIDEWALK OR PATHWAY IS 2-INCHES OR GREATER ABOVE THE EXISTING GRADE, INSTALL 1-FOOT WIDE SHOULDER BEFORE GRADING A MAXIMUM 2:1 SLOPE TO MEET EXISTING GRADE. REFER TO PLAN.
  - INSTALL A MINIMUM 8-INCH DEEP ASPHALT PLUG WHEN PROPOSED IMPROVEMENTS ARE BEYOND EXISTING EDGE OF PAVEMENT. REFER TO PLAN.
  - UNLESS OTHERWISE NOTED, WHERE THE EXISTING ROAD CROSS SLOPE IS LESS THAN 1.5%, PERFORM A VARIABLE GRIND AND OVERLAY AS NECESSARY TO CREATE A MINIMUM 1.5% CROSS SLOPE.

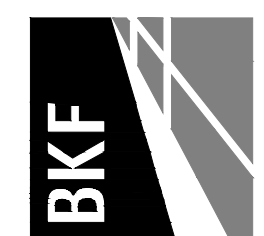
Revisions	No.	Date	By	Appr.
	1	MAR 2024	AS SHOWN	IC
	2		IC	BD
	3		BD	BD

Drawing Number:  
**TS-1**  
**3** OF **12**



**PRELIMINARY**  
NOT FOR CONSTRUCTION  
DATE: 03/11/2024  
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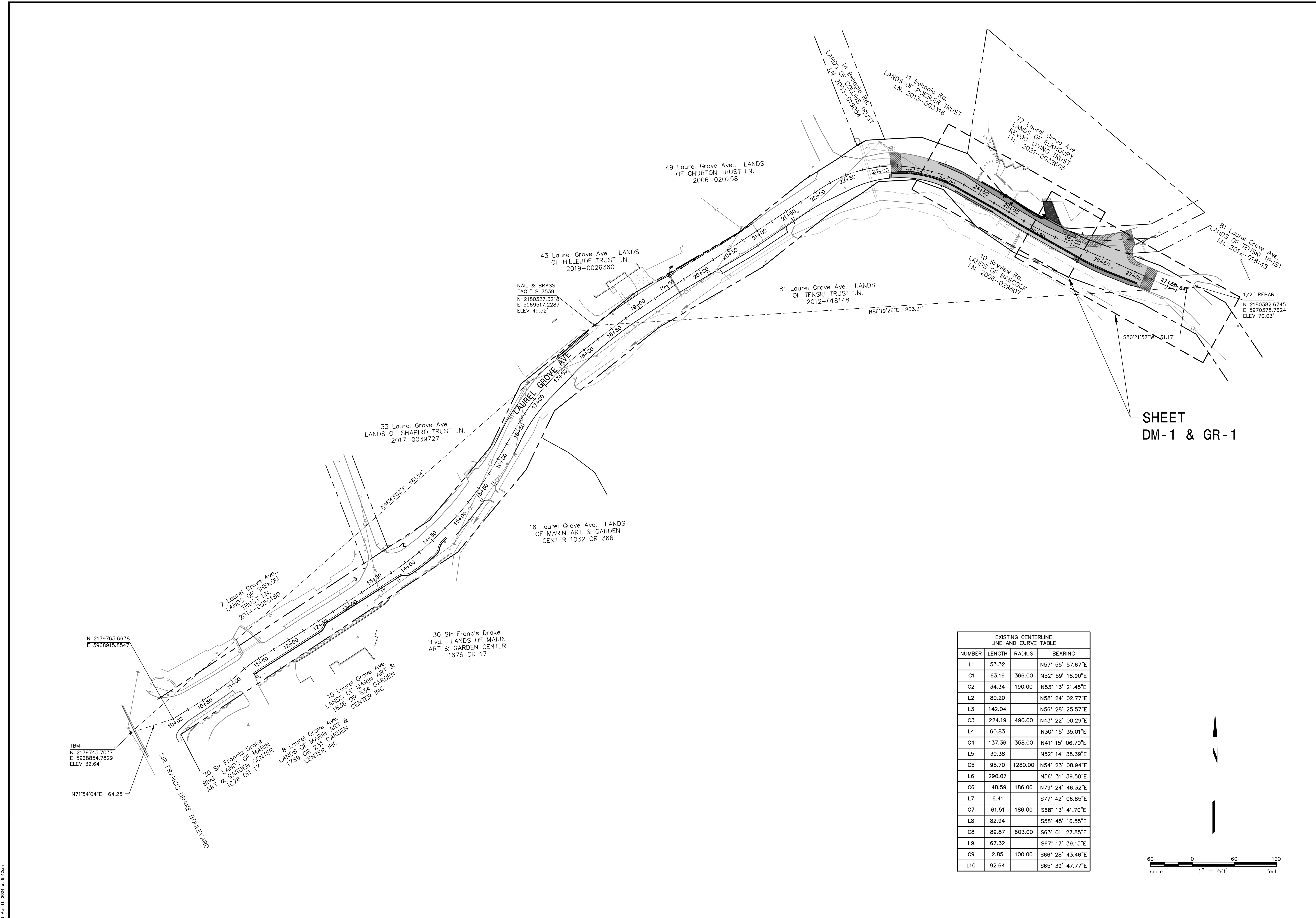
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PHASE I-B  
TOWN OF ROSS, CALIFORNIA  
**HORIZONTAL CONTROL PLAN & KEY MAP**

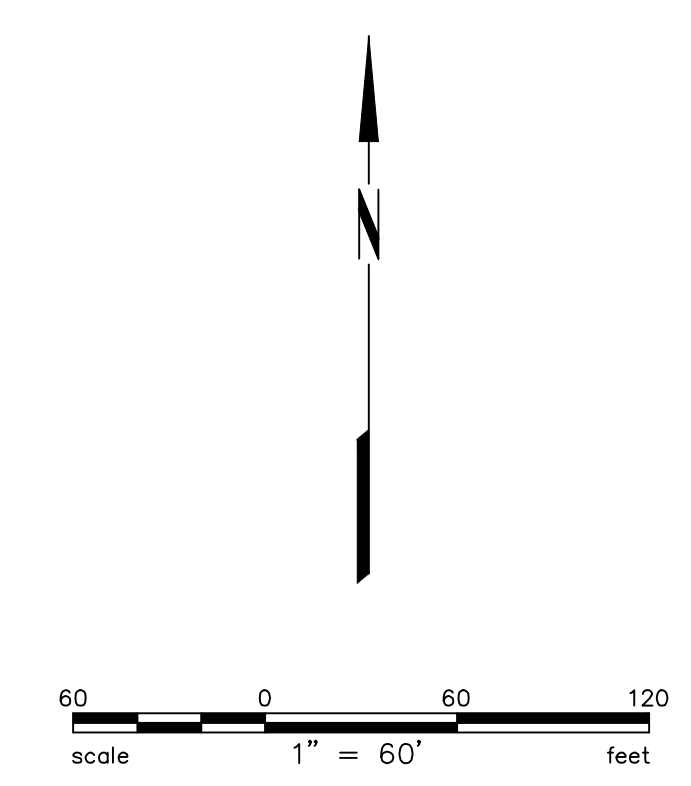
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Drawing Number:  
**OP-1**  
4 OF 12



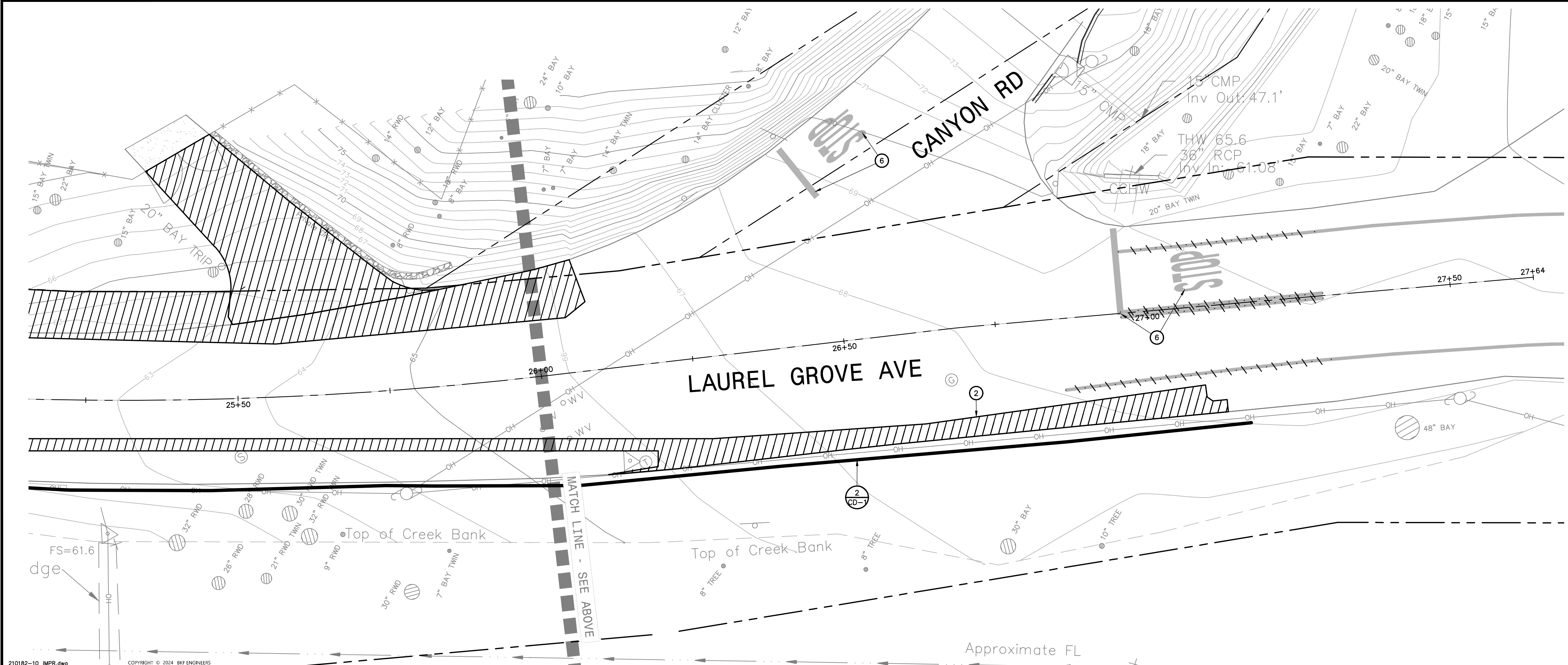
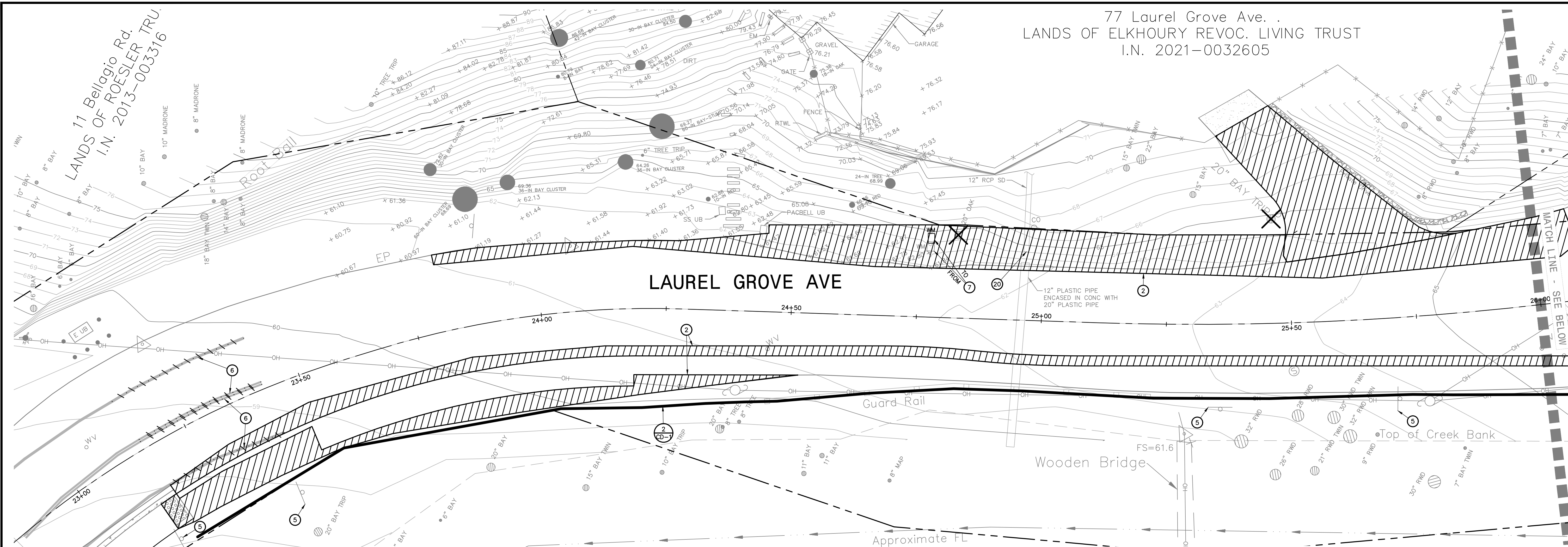
EXISTING CENTERLINE LINE AND CURVE TABLE

NUMBER	LENGTH	RADIUS	BEARING
L1	53.32		N57° 55' 57.67"E
C1	63.16	366.00	N52° 59' 18.90"E
C2	34.34	190.00	N53° 13' 21.45"E
L2	80.20		N58° 24' 02.77"E
L3	142.04		N56° 28' 25.57"E
C3	224.19	490.00	N43° 22' 00.29"E
L4	60.83		N30° 15' 35.01"E
C4	137.36	358.00	N41° 15' 06.70"E
L5	30.38		N52° 14' 38.39"E
C5	95.70	1280.00	N54° 23' 08.94"E
L6	290.07		N56° 31' 39.50"E
C6	148.59	186.00	N79° 24' 46.32"E
L7	6.41		S77° 42' 06.85"E
C7	61.51	186.00	S68° 13' 41.70"E
L8	82.94		S58° 45' 16.55"E
C8	89.87	603.00	S63° 01' 27.85"E
L9	67.32		S67° 17' 39.15"E
C9	2.85	100.00	S66° 28' 43.46"E
L10	92.64		S65° 39' 47.77"E

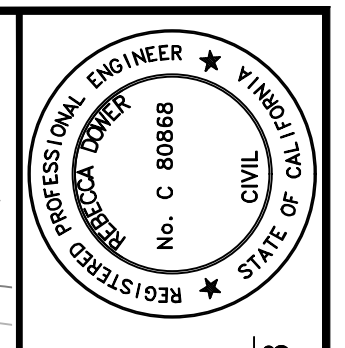


77 Laurel Grove Ave.  
LANDS OF ELKHOURY REVOC. LIVING TRUST  
I.N. 2021-0032605

11 Bellagio Rd.  
LANDS OF ROESLER TRU.  
I.N. 2013-003316



- KEYNOTES:**
- ② SAW CUT AND CLEANLY REMOVE EXISTING MATERIAL TO FACILITATE THE PROPOSED IMPROVEMENTS AND DISPOSE OF UNUSED MATERIAL IN ACCORDANCE WITH LOCAL REGULATIONS.
  - ⑤ REMOVE EXISTING SIGN AND POST. REFER TO THE SIGNAGE PLAN.
  - ⑥ REMOVE EXISTING STRIPING. REFER TO THE STRIPING PLAN.
  - ⑦ RELOCATE EXISTING WATER METER AND BOX TO FACILITATE THE PROPOSED IMPROVEMENTS, REFER TO THE GRADING & PAVING PLAN.
  - ⑳ REMOVE EXISTING HEADWALL AND DISPOSE OF UNUSED MATERIAL IN ACCORDANCE WITH LOCAL REGULATIONS.



**PRELIMINARY**  
NOT FOR CONSTRUCTION  
DATE: 03/08/2024  
REBECCA DOWER  
C 80868

4040 CIVIC CENTER DR.  
SUITE 530  
SAN RAFAEL, CA 94903  
(415) 930-7960  
www.bkf.com



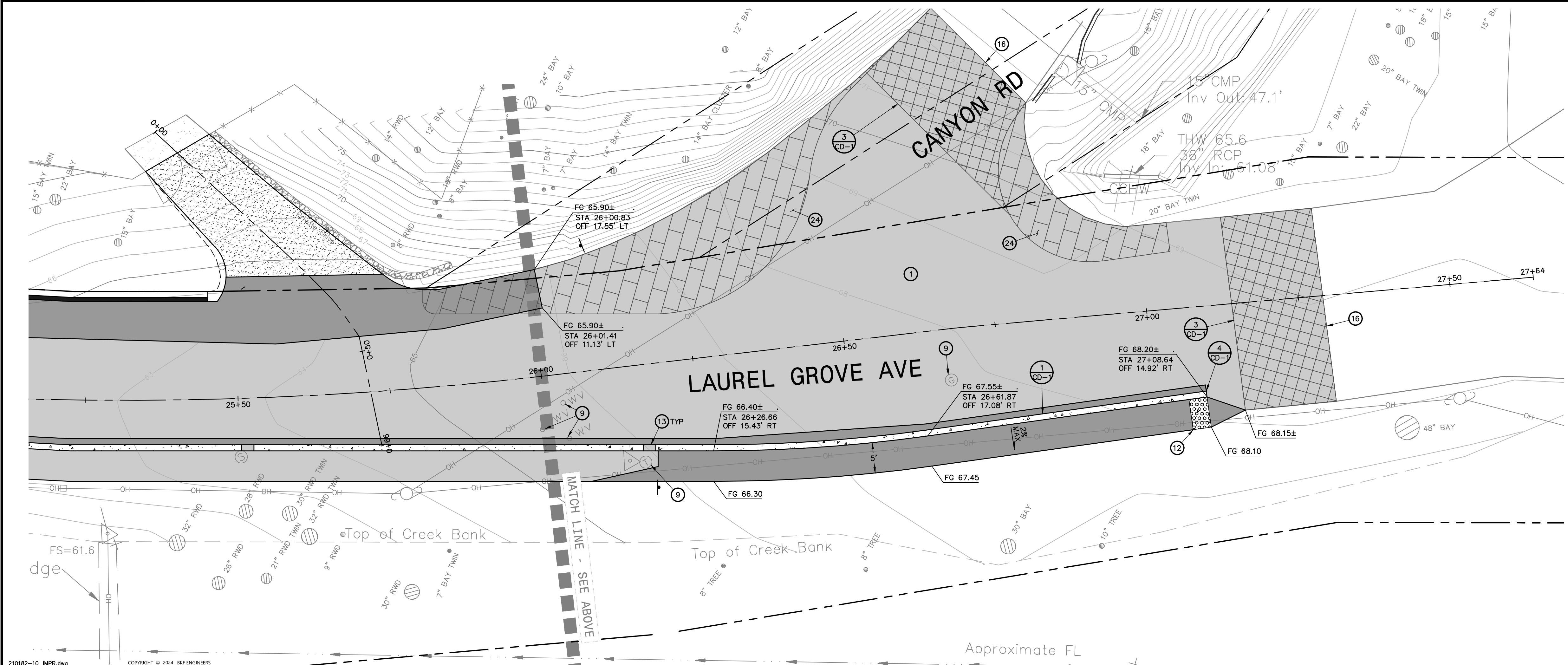
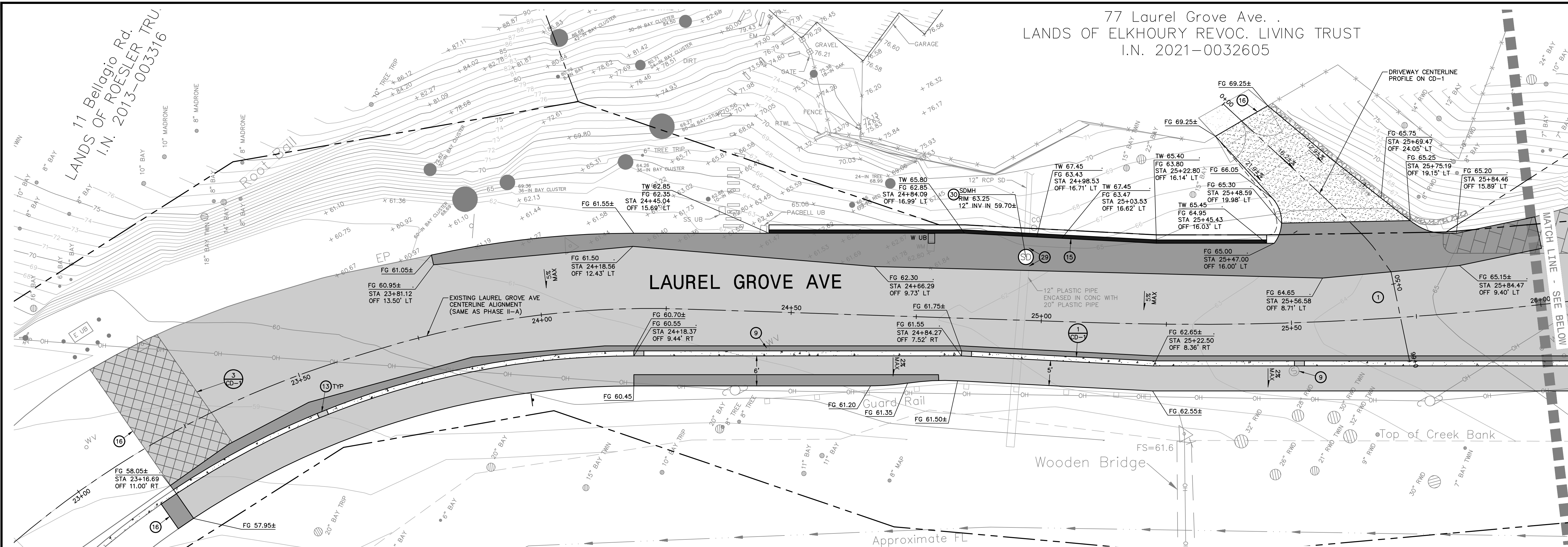
**LAUREL GROVE AVENUE - SAFE PATHWAY TO SCHOOL**  
PHASE I-B  
TOWN OF ROSS, CALIFORNIA  
**DEMOLITION PLAN & SEDIMENT CONTROL PLAN**

Revisions	No.	Date	By	Appr.

Date: MARCH 2024  
Scale: AS SHOWN  
Design: IC  
Drawn: IC  
Approved: BD  
Job No: 20210182-10

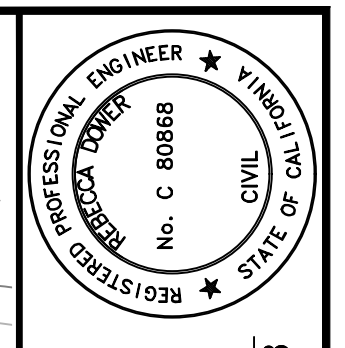
77 Laurel Grove Ave.  
LANDS OF ELKHOURY REVOC. LIVING TRUST  
I.N. 2021-0032605

11 Bellagio Rd.  
LANDS OF ROESLER TRU.  
I.N. 2013-003316



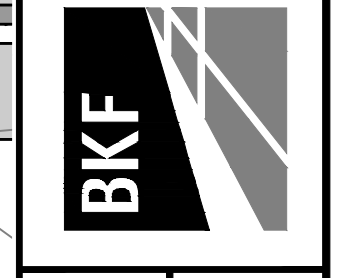
- KEYNOTES:
- 1 GRIND EXISTING ASPHALT CONCRETE A MAXIMUM DEPTH OF 3-INCHES AND AS REQUIRED TO PROVIDE AN ASPHALT CONCRETE OVERLAY HAVING A MINIMUM SLOPE OF 1.5-PERCENT TO THE LINES AND ELEVATIONS SHOWN IN A MANNER WHICH GENERATES A UNIFORM TRANSITION BETWEEN SURFACES AND DOES NOT IMPEDE DRAINAGE.
  - 9 ADJUST EXISTING UTILITY TO FINISH GROUND SURFACE ELEVATION.
  - 12 DETECTABLE WARNING SURFACE (SET IN NEW CONCRETE) IN ACCORDANCE WITH SECTION 11B-705.1 OF THE 2016 CALIFORNIA BUILDING CODE.
  - 13 2-FOOT OPENING SPACED 65-FOOT APART (REFER TO PLAN).
  - 15 RETAINING WALL AND 1-FOOT BENCH. REFER TO THE STRUCTURAL DRAWINGS.
  - 16 CONFORM TO EXISTING SURFACE ELEVATION IN A MANNER WHICH GENERATES A UNIFORM TRANSITION BETWEEN SURFACES AND DOES NOT IMPEDE DRAINAGE.
  - 24 CONTRACTOR SHALL COORDINATE FINAL STAMP PATTERN AND LIMITS OF STAMPED COLORIZED PAVEMENT WITH THE ENGINEER.
  - 29 REMOVE PORTIONS OF EXISTING STORM DRAIN TO FACILITATE THE PROPOSED IMPROVEMENTS AND CONNECT TO THE NEW STRUCTURE. FORM AND FILL AREA BETWEEN PIPE AND STRUCTURE WITH CONCRETE IN A MANNER WHICH PROVIDES A PERMANENT WATER TIGHT SEAL.
  - 30 TYPE 'A' STORM DRAIN MANHOLE IN ACCORDANCE WITH COUNTY OF MARIN UNIFORM CONSTRUCTION STANDARDS (UCS) 200 AND 205 HAVING A TRAFFIC RATED FRAME AND COVER IN ACCORDANCE WITH UCS STANDARD DRAWING NUMBER 215.

REFER TO THE SIGNAGE PLAN AND PAVEMENT DELINEATION PLAN FOR SIGNAGE AND STRIPING INFORMATION.



**PRELIMINARY**  
NOT FOR CONSTRUCTION  
DATE: 03/11/2024  
REBECCA DOWER  
C 80866

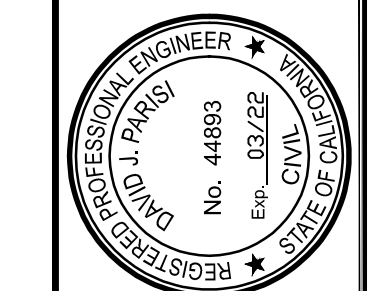
4040 CIVIC CENTER DR.  
SUITE 530  
SAN RAFAEL, CA 94903  
(415) 930-7960  
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**LAUREL GROVE AVENUE - SAFE PATHWAY TO SCHOOL**  
PHASE I-B  
TOWN OF ROSS, CALIFORNIA  
**GRADING & PAVING PLAN**

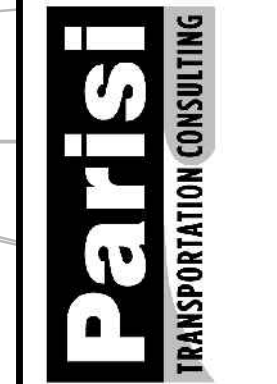
Revisions	No.	Date	By	Appr.

Date: MARCH 2024  
Scale: AS SHOWN  
Design: IC  
Drawn: IC  
Approved: BD  
App. No: 20210182-10  
Drawing Number:  
**GR-1**  
6 OF 12



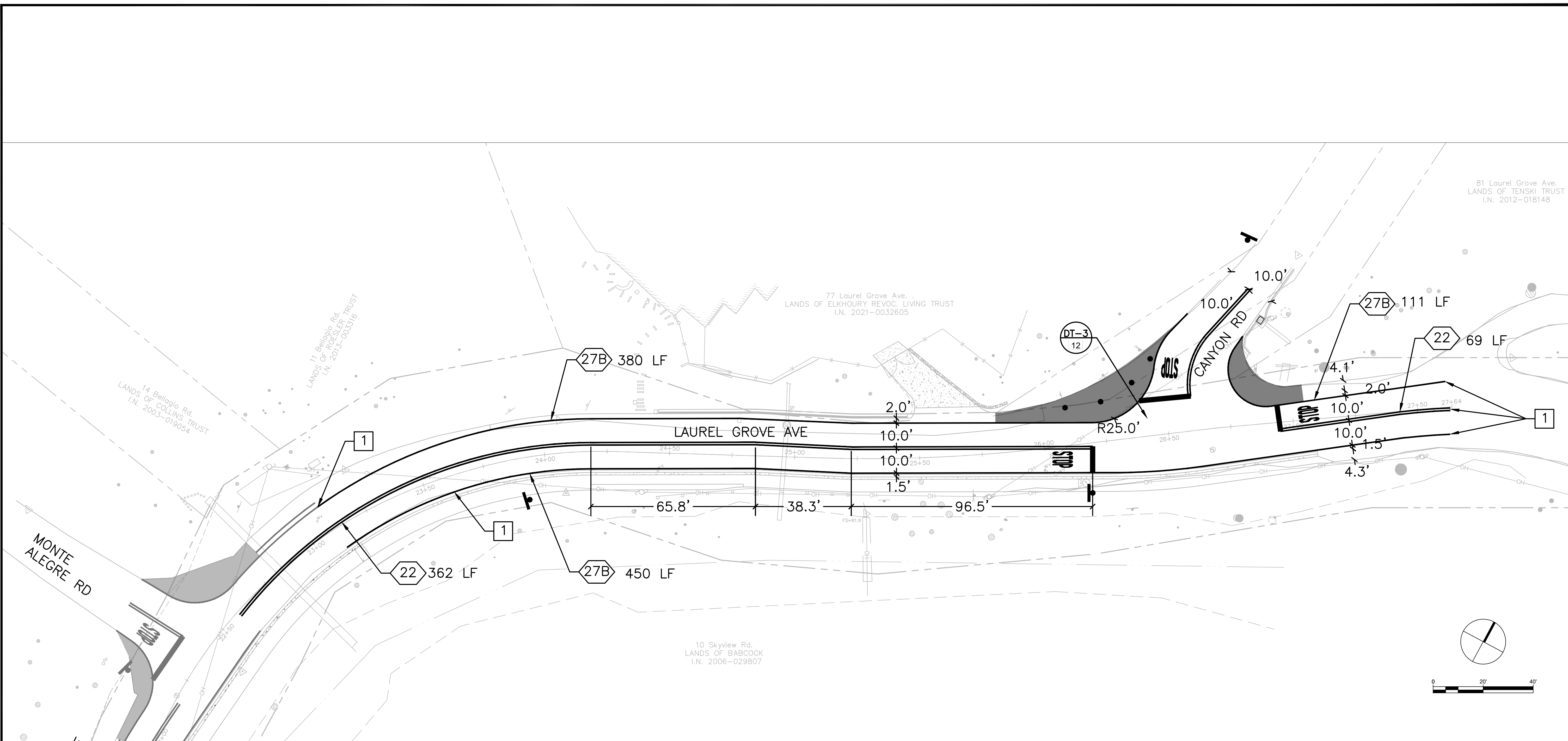
**PRELIMINARY**  
NOT FOR CONSTRUCTION  
03/22/2024

800 Bancroft Way, Ste  
203  
Berkeley, CA 94710  
GISD: 343-6400



LAUREL GROVE - SAFE PATHWAY TO SCHOOL  
PHASE II-B  
LAUREL GROVE AVENUE, ROSS, CA

PAVEMENT DELINEATION PLAN



**LEGEND & ABBREVIATIONS**

- XX CALTRANS STRIPING DETAIL
- LF LINEAR FEET
- TYP TYPICAL

**CONSTRUCTION NOTES (THIS SHEET ONLY)**

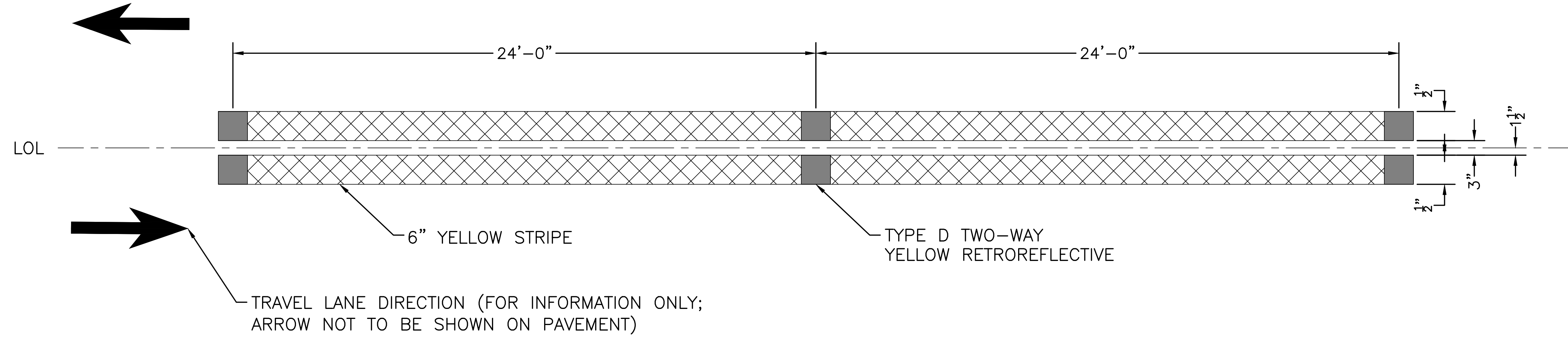
- 1 TIE PROPOSED STRIPING INTO EXISTING STRIPING TO MAINTAIN MINIMUM 10' TRAVEL LANES.

Plot Mar 11, 2024 at 2:52pm

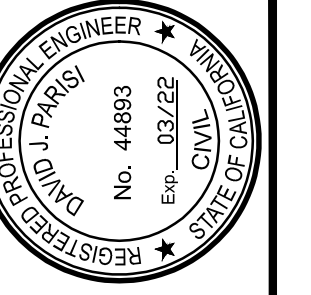
Date	No.	Revisions
MARCH 2024		
AS SHOWN		
DESIGN		
DRWN		
APPROV		
Job No.		

Drawing Number:  
PD-1  
7 of 12





1  
-  
MODIFIED CALTRANS STANDARD DETAIL 22  
NO SCALE



PRELIMINARY  
NOT FOR CONSTRUCTION  
03/22/2024

800 Bancroft Way, Ste  
203  
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CSID: 343-6400

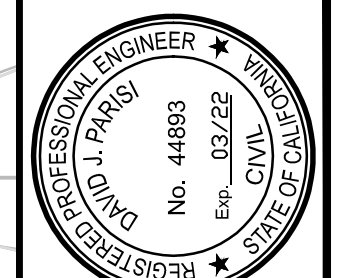


LAUREL GROVE - SAFE PATHWAY TO SCHOOL  
PHASE II-B  
LAUREL GROVE AVENUE, ROSS, CA

PAVEMENT DELINEATION PLAN

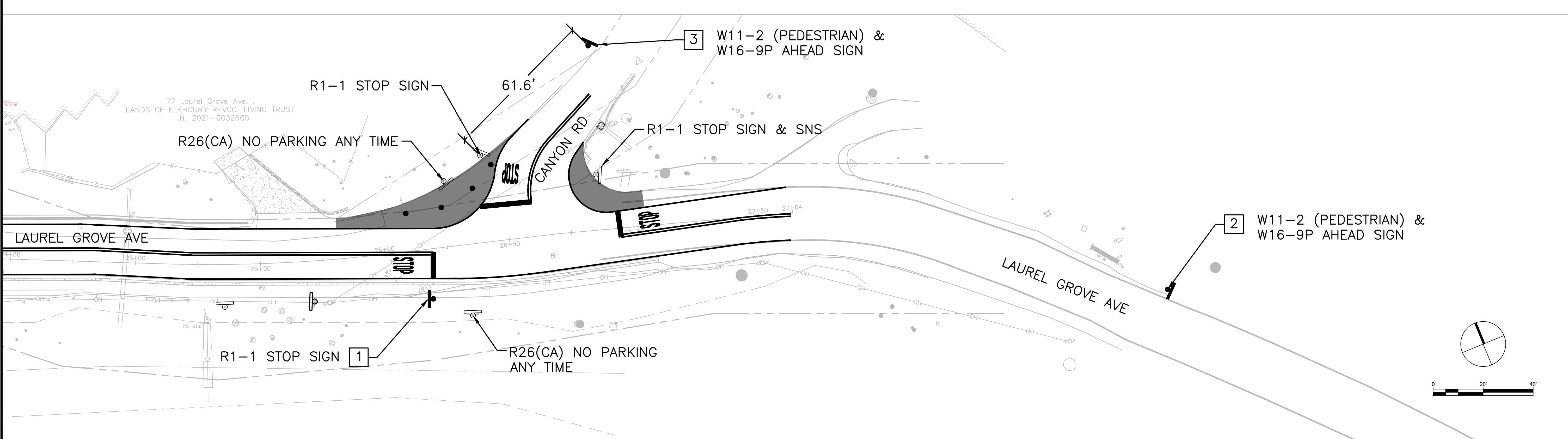
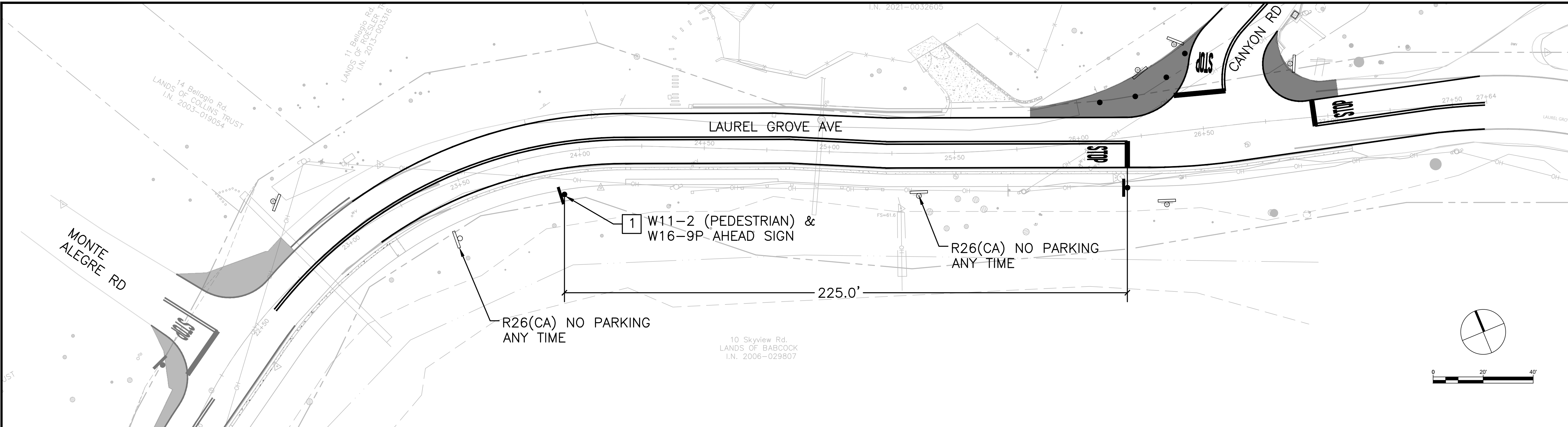
Date	No.	Revisions
MARCH 2024		
AS SHOWN		
DESIGN		
DRAWN		
APPROVED		
JOB NO.		

Drawing Number:  
PD-2  
8 of 12



**PRELIMINARY**  
NOT FOR CONSTRUCTION  
03/22/2024

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203  
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GISD: 343-6400



**CONSTRUCTION NOTES (THIS SHEET ONLY)**

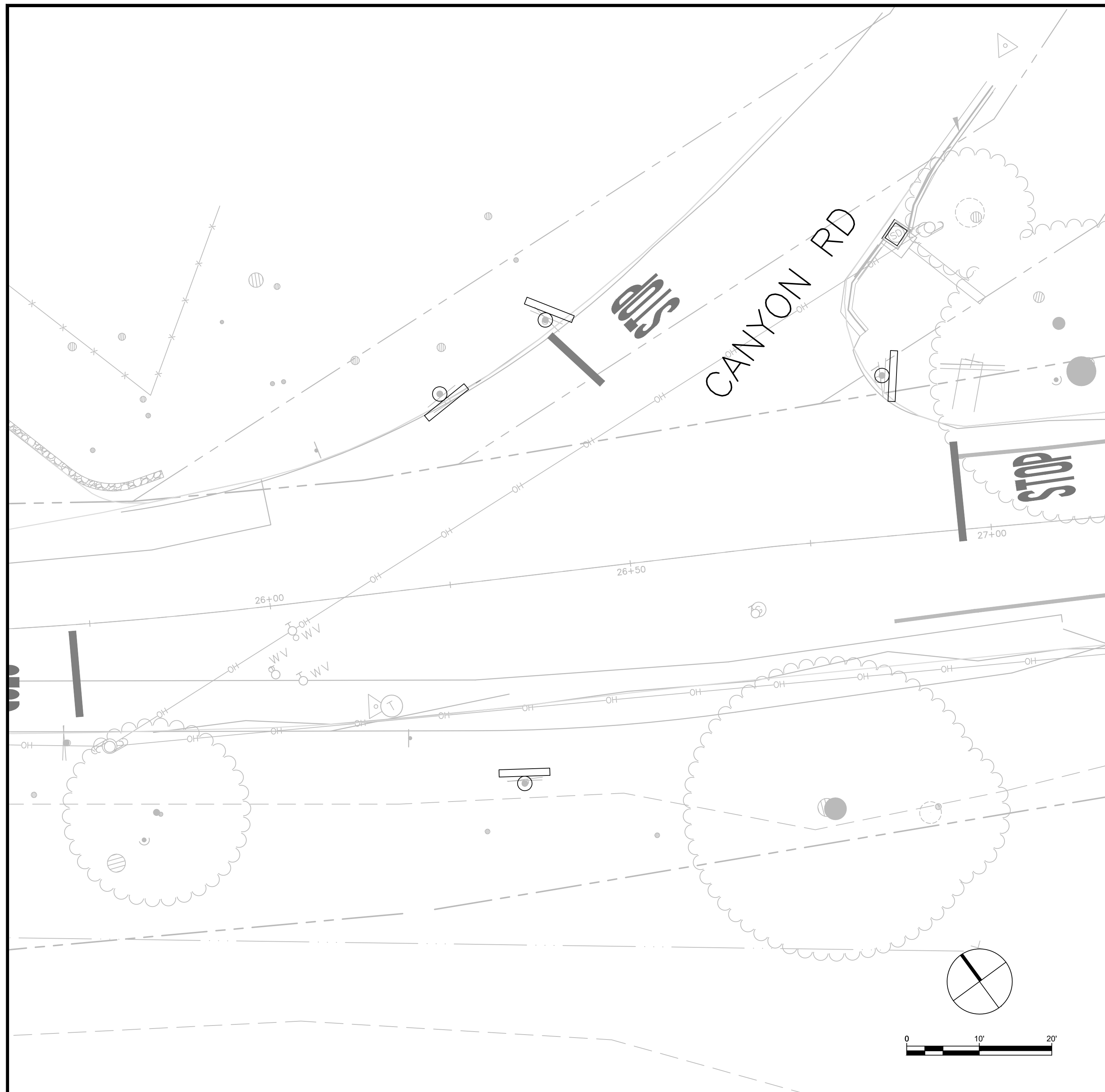
- 1 INSTALL SIGN ON NEW POLE
- 2 INSTALL SIGN ON NEW POLE APPROXIMATELY 250' EAST OF THE LAUREL GROVE AVE & CANYON RD INTERSECTION. DIMENSION TAKEN FROM EXISTING STOP SIGN LOCATION.
- 3 INSTALL SIGN ON NEW POLE APPROXIMATELY 61' NORTH OF THE LAUREL GROVE AVE & CANYON RD INTERSECTION. DIMENSION TAKEN FROM EXISTING STOP SIGN LOCATION.

LAUREL GROVE - SAFE PATHWAY TO SCHOOL  
PHASE II-B  
LAUREL GROVE AVENUE, ROSS, CA

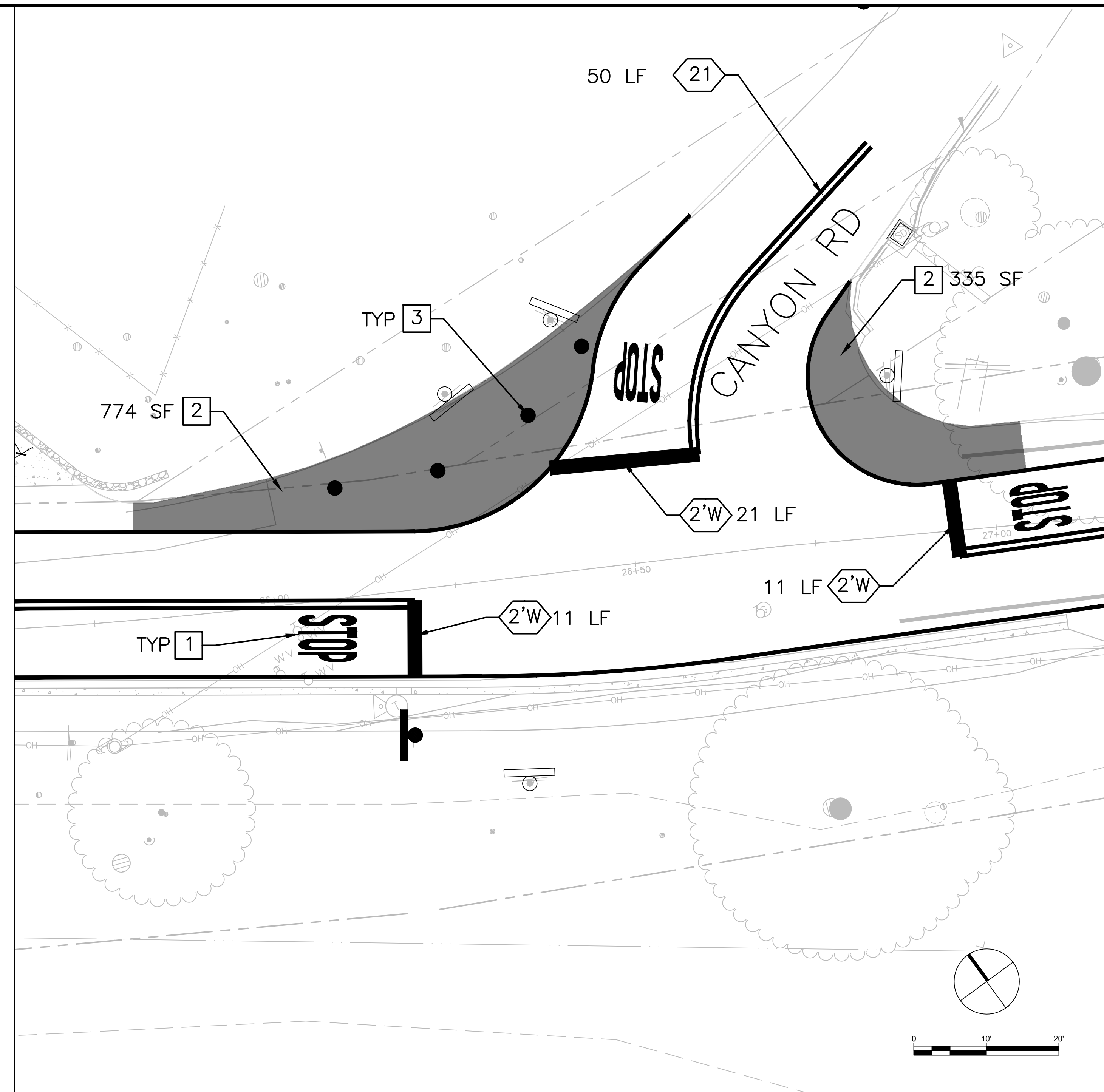
SIGNAGE PLAN

Revisions	No.	Date	By	Appr.

Date: MARCH 2024  
Scale: AS SHOWN  
Design: DESN  
Drawn: DRWN  
Approved: APRV  
Job No.: JOB NO.



LAUREL GROVE AVE/CANYON RD  
EXISTING CONDITIONS



LAUREL GROVE AVE/CANYON RD  
PROPOSED CONDITIONS

**LEGEND & ABBREVIATIONS**

- XX CALTRANS STRIPING DETAIL
- 2'W 1-FOOT WHITE STRIPE
- LF LINEAR FEET
- SF SQUARE FEET
- TYP TYPICAL

**CONSTRUCTION NOTES (THIS SHEET ONLY)**

- 1 INSTALL STOP PAVEMENT MARKING
- 2 INSTALL COLORIZED PAVEMENT
- 3 INSTALL K-71 POST 2'-6' FROM STRIPE, SPACED 14' APART AND AS DIRECTED BY ENGINEER.

LAUREL GROVE - SAFE PATHWAY TO SCHOOL  
PHASE II-B  
LAUREL GROVE AVENUE, ROSS, CA

INTERSECTION DETAIL

No.	Revisions

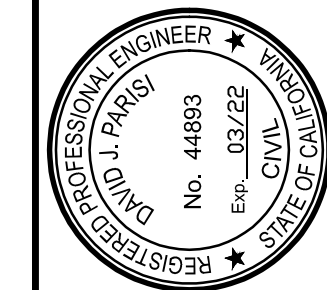
Date: MARCH 2024  
Scale: AS SHOWN  
Design: DESN  
Drawn: DRWN  
Approved: APRV  
Job No.: 008 NO

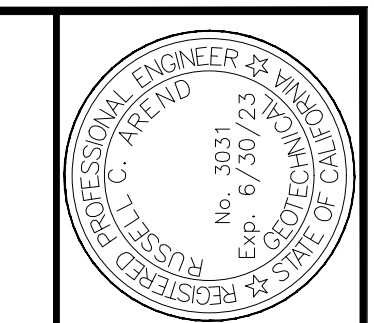
Drawing Number:  
DT-1  
10 OF 12

**Parisi**  
TRANSPORTATION CONSULTING

800 Bancroft Way, Ste  
203  
Berkeley, CA 94710  
CSID: 343-6400

PRELIMINARY  
NOT FOR CONSTRUCTION  
03/22/2024





**PRELIMINARY**  
NOT FOR CONSTRUCTION

DATE: 3/14/2023  
RUSSELL AREND  
GE 3031



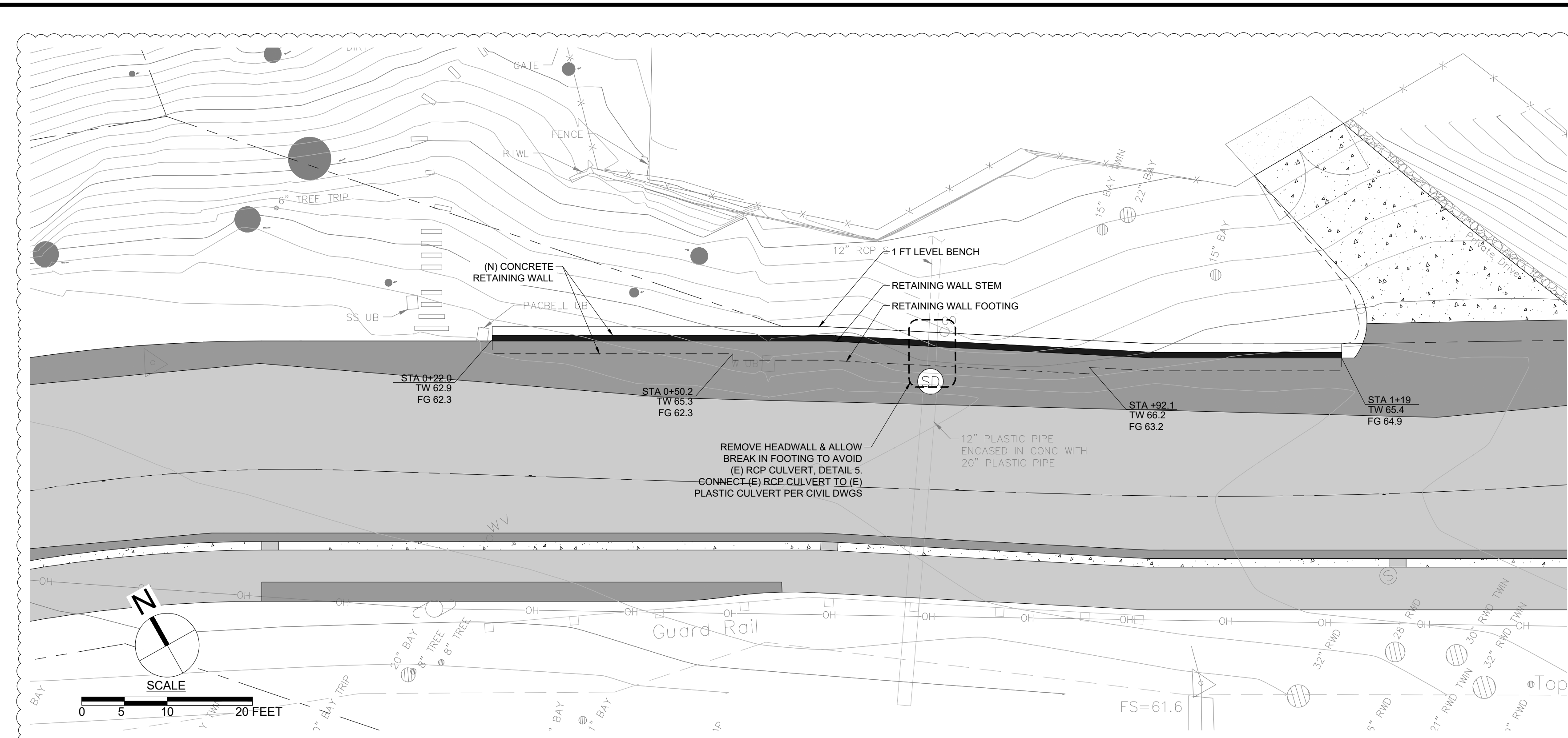
Laurel Grove - Safe Pathway to School  
Phase 2B  
Laurel Grove Avenue, Ross, CA

**RETAINING PLAN, PROFILE & DETAILS**

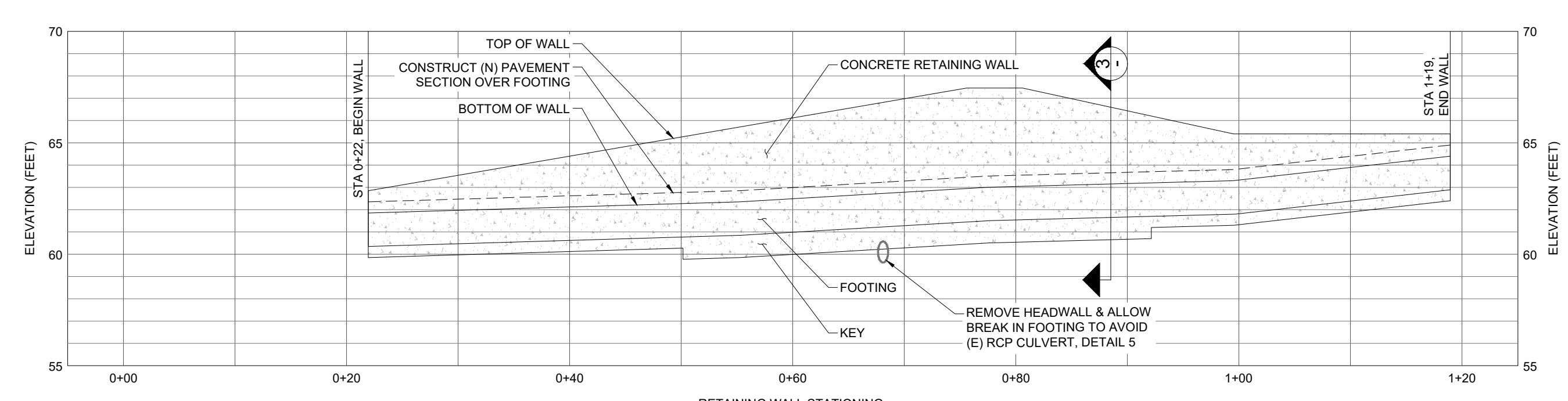
No.	Revisions
1	DESIGN UPDATES
2	DESIGN UPDATES

Date: MAR 2024  
Scale: AS SHOWN  
Design: RCA  
Drawn: RCA  
Approved: SAS  
Sub. No: 1912.020

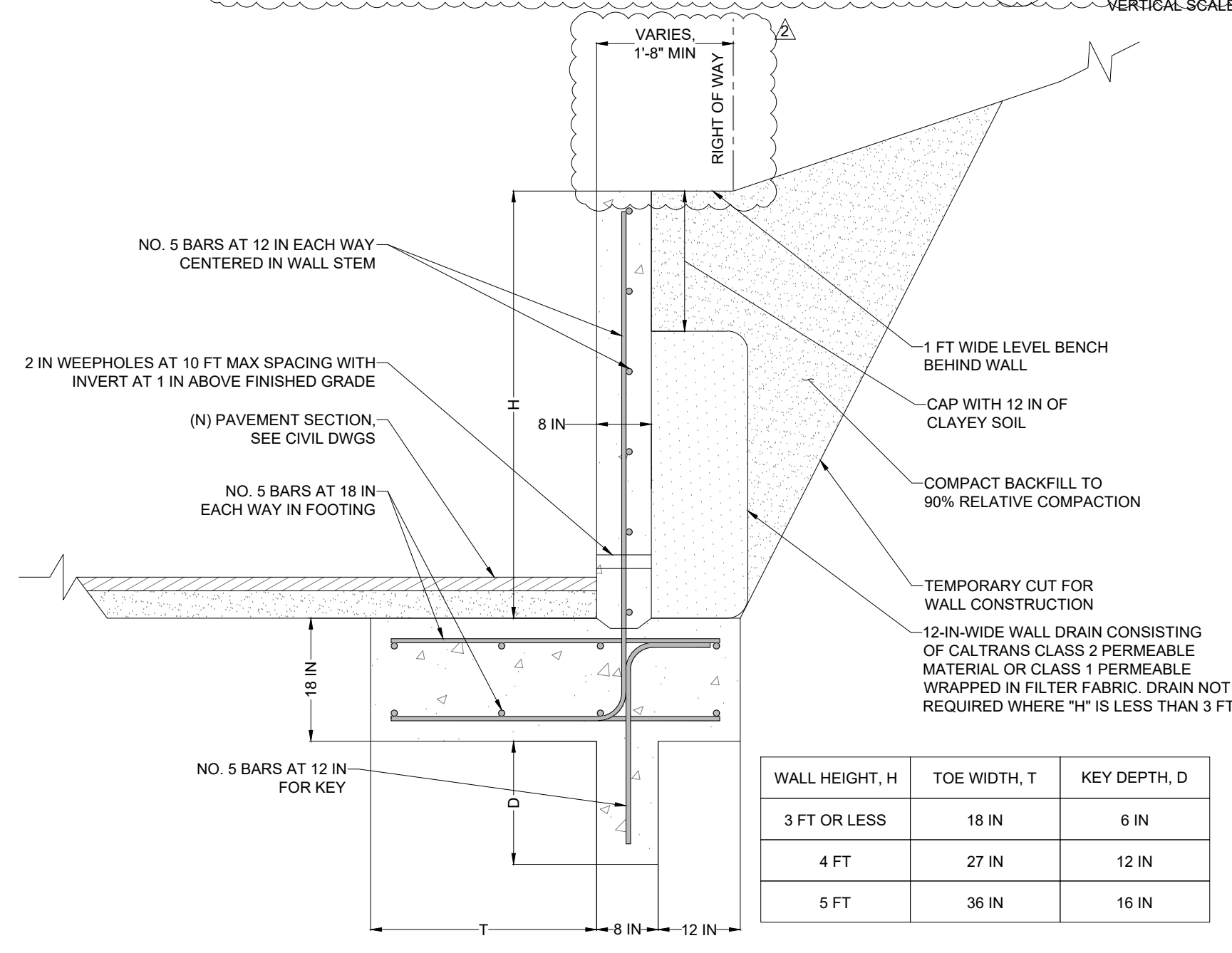
Drawing Number:  
**RW-1**  
11 of 12



**1 RETAINING WALL PLAN**  
(SCALE: 1" = 10'-0")

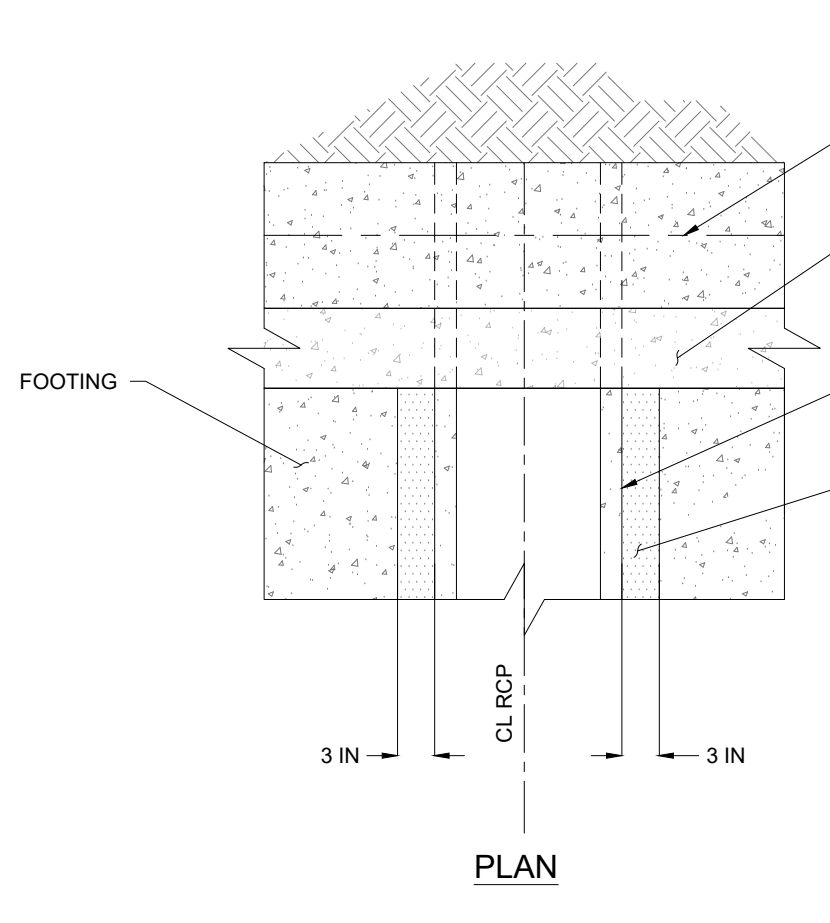


**2 RETAINING WALL PROFILE**  
(HORIZ. SCALE: 1" = 10'-0"  
VERTICAL SCALE: 1" = 6'-0")

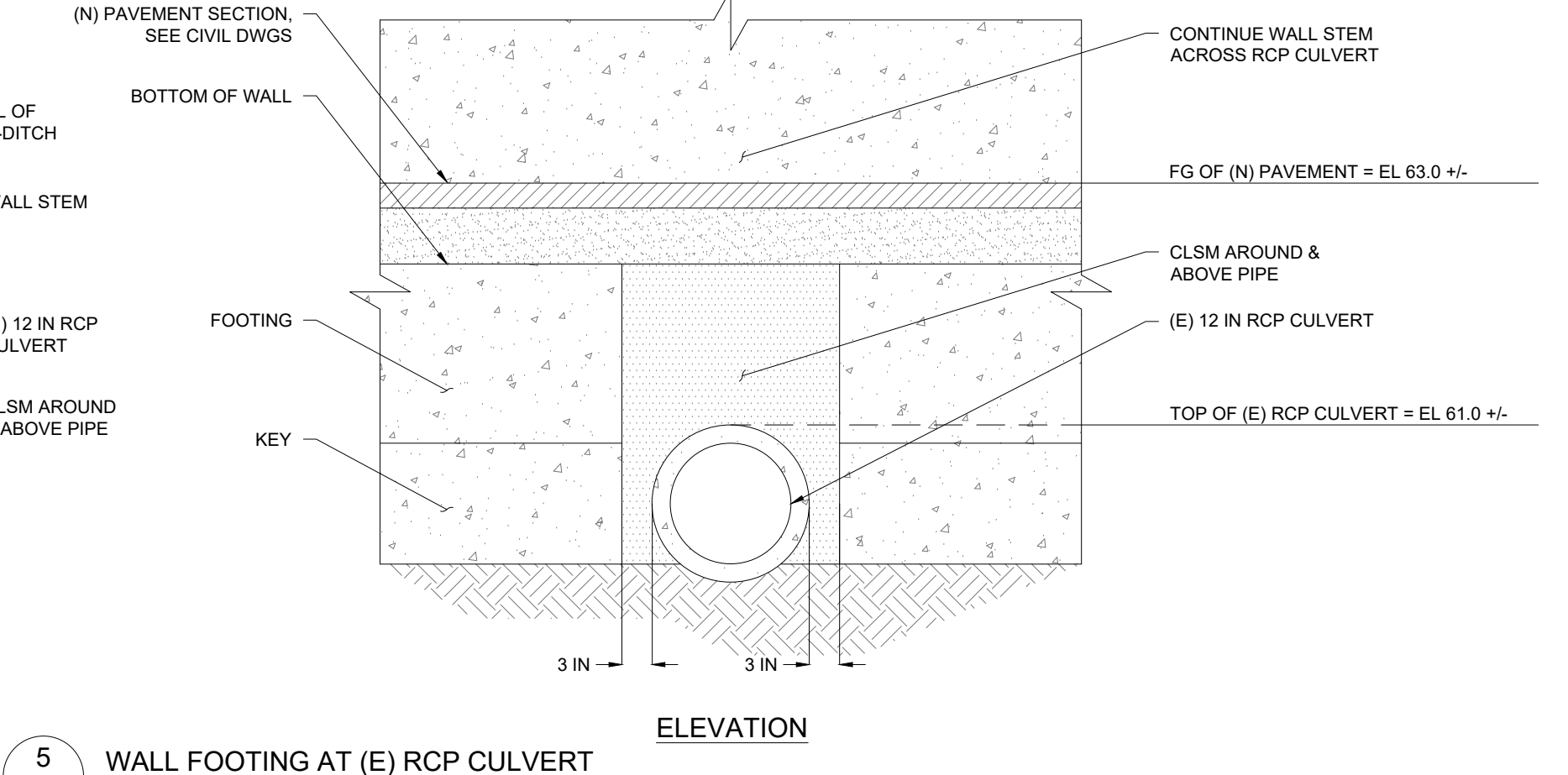


WALL HEIGHT, H	TOE WIDTH, T	KEY DEPTH, D
3 FT OR LESS	18 IN	6 IN
4 FT	27 IN	12 IN
5 FT	36 IN	16 IN

**3 CANTILEVER RETAINING WALL**  
(SCALE: 1" = 10'-0")



**PLAN**



**ELEVATION**

**5 WALL FOOTING AT (E) RCP CULVERT**  
(SCALE: 1" = 10'-0")

**RETAINING WALL DESIGN CRITERIA**

GEOTECHNICAL REPORT:  
MILLER PACIFIC ENGINEERING GROUP  
GEOTECHNICAL INVESTIGATION  
TOWN OF ROSS - SAFE ROUTES TO SCHOOL  
LAUREL GROVE AVENUE PATHWAY  
ROSS, CALIFORNIA  
DATED SEPTEMBER 2, 2021

ACTIVE EARTH PRESSURE: 60 PCF (EQUIVALENT FLUID PRESSURE)  
PASSIVE EARTH PRESSURE: 350 PCF (EQUIVALENT FLUID PRESSURE)  
SEISMIC PRESSURE: 10 X WALL HEIGHT (UNIFORM, IN POUNDS PER SQUARE FOOT)  
BASE FRICTION COEFFICIENT: 0.35  
ALLOWABLE BEARING CAPACITY: 3,000 PSF

**CONCRETE**

- ALL WORK SHALL BE IN ACCORDANCE WITH COUNTY OF MARIN STANDARD SPECIFICATIONS AND THE LATEST EDITION OF ACI 301. SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS. ALL STRUCTURAL CONCRETE SHALL COMPLY WITH THE PROVISIONS OF ACI 318-14.
- ALL CONCRETE SHALL BE NORMAL WEIGHT AND READY-MIXED WITH A MAXIMUM WATER TO CEMENT RATIO 0.45 AND A MAXIMUM MEASURED SLUMP OF 4 INCHES.
- ALL AGGREGATE SHALL CONFORM TO ASTM C33.
- ALL WATER SHALL BE CLEAN, POTABLE AND NOT DETRIMENTAL TO THE CONCRETE.
- CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI

**REINFORCING STEEL**

- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GR 60.
- PROVIDE 3 IN MINIMUM COVER.
- REINFORCING STEEL BENDS, HOOKS, DEVELOPMENT LENGTHS AND SPLICES SHALL BE IN ACCORDANCE WITH DETAIL 5/SHEET RW1.

**SPECIAL INSPECTIONS**

- FOUNDATIONS: GEOTECHNICAL ENGINEER SHALL OBSERVE EXCAVATIONS TO CONFIRM SOIL CONDITIONS ARE CONSISTENT WITH GEOTECHNICAL DESIGN CRITERIA.
- CONCRETE: CONCRETE SHALL BE SAMPLED, SLUMP SHALL BE MEASURED AND CYLINDERS SHALL BE CAST FOR STRENGTH TESTING IN CONFORMANCE WITH ASTM C39. A MINIMUM OF 1 CYLINDER SHALL BE TESTED AT 7 DAYS AND A MINIMUM OF 3 CYLINDERS SHALL BE TESTED AT 28 DAYS.
- REINFORCING STEEL: REBAR SHALL BE OBSERVED PRIOR TO PLACEMENT OF CONCRETE.
- WALL DRAINAGE: WALL DRAINAGE AND RELATED COMPONENTS SHALL BE OBSERVED PRIOR TO PLACEMENT OF BACKFILLING.
- WALL BACKFILL: OBSERVATION AND FIELD DENSITY TESTING OF BACKFILL MATERIALS DURING PLACEMENT AND COMPACTION.

**DEVELOPMENT LENGTH**

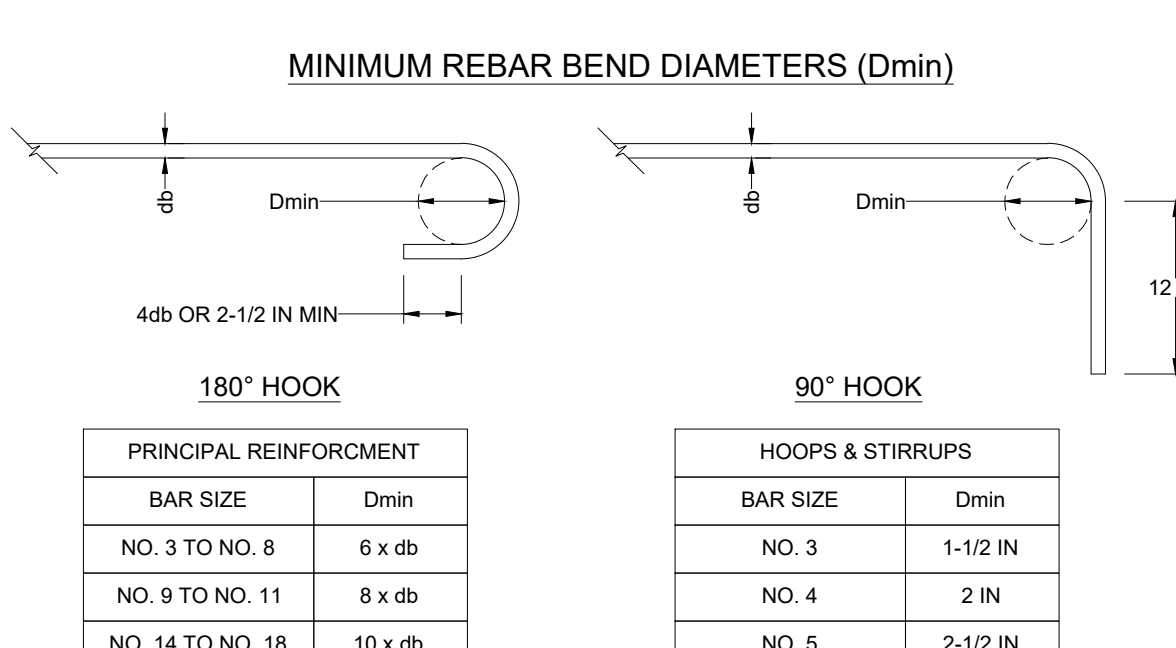
28-DAY COMP STRENGTH	LOCATION	BAR SIZE									
		NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10	NO. 11	
4,000 PSI	TOP	12 IN	15 IN	23 IN	23 IN	37 IN	47 IN	58 IN	70 IN	84 IN	
	BOTTOM	12 IN	12 IN	17 IN	18 IN	29 IN	36 IN	44 IN	54 IN	65 IN	
5,000 PSI	TOP	12 IN	14 IN	20 IN	20 IN	33 IN	42 IN	52 IN	63 IN	75 IN	
	BOTTOM	12 IN	12 IN	16 IN	16 IN	26 IN	32 IN	40 IN	49 IN	58 IN	

**HOOKED DEVELOPMENT LENGTH**

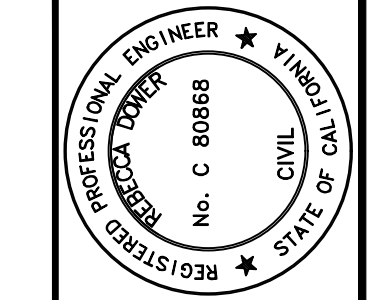
28-DAY COMP STRENGTH	LOCATION	BAR SIZE									
		NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10	NO. 11	
4,000 PSI	N/A	8 IN	10 IN	12 IN	15 IN	17 IN	19 IN	22 IN	24 IN	N/A	
5,000 PSI	N/A	7 IN	9 IN	11 IN	13 IN	15 IN	17 IN	20 IN	22 IN	N/A	

**LAP SPlice LENGTH**

28-DAY COMP STRENGTH	LOCATION	BAR SIZE									
		NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10	NO. 11	
4,000 PSI	TOP	12 IN	20 IN	29 IN	29 IN	48 IN	62 IN	75 IN	91 IN	109 IN	
	BOTTOM	12 IN	15 IN	23 IN	23 IN	37 IN	47 IN	58 IN	70 IN	84 IN	
5,000 PSI	TOP	12 IN	18 IN	26 IN	26 IN	43 IN	54 IN	67 IN	82 IN	98 IN	
	BOTTOM	12 IN	14 IN	20 IN	20 IN	33 IN	42 IN	52 IN	63 IN	75 IN	

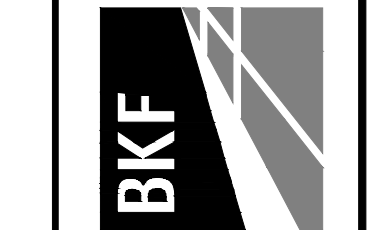


**4 REINFORCING DETAILS**  
(SCALE: 1" = 10'-0")



**PRELIMINARY**  
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DATE: 03/11/2024  
REBECCA DOWER C 80868

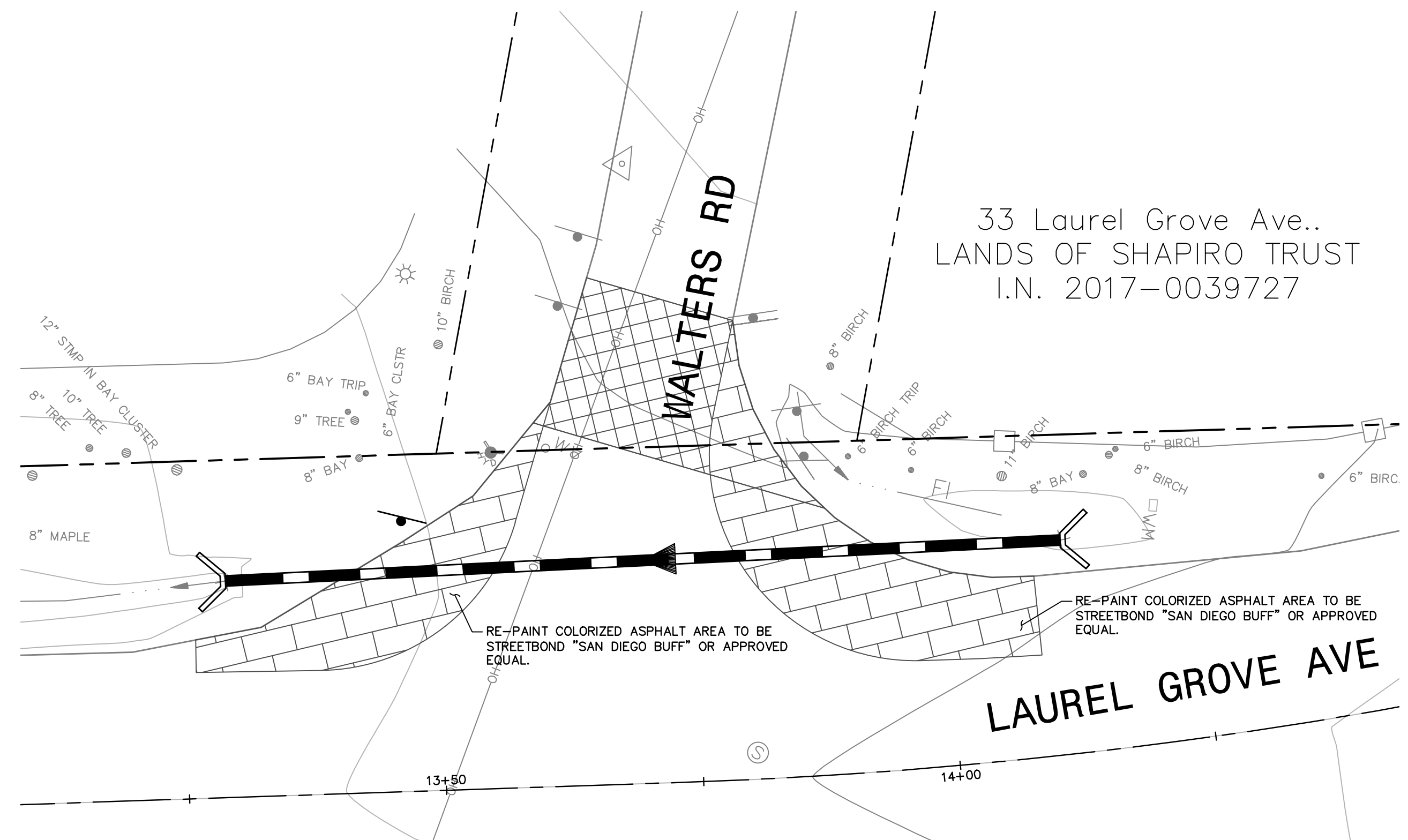
4040 CIVIC CENTER DR.  
SUITE 530  
SAN RAFAEL, CA 94903  
(415) 930-7960  
www.bkf.com



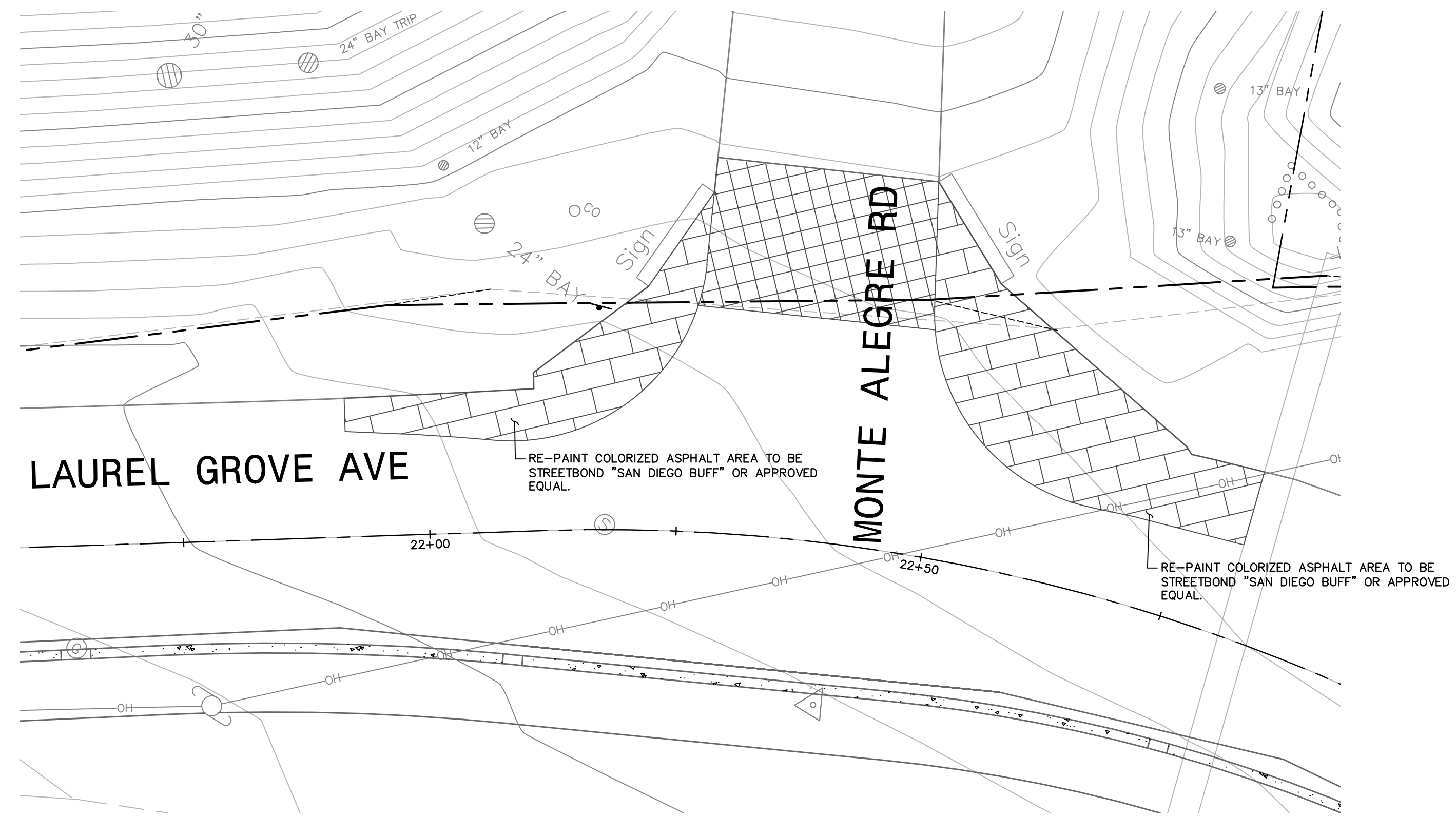
**LAUREL GROVE AVENUE - SAFE PATHWAY TO SCHOOL**  
PHASE I-B  
TOWN OF ROSS, CALIFORNIA  
**CONSTRUCTION DETAILS**

Date	Revisions
MARCH 2024	
AS SHOWN	
IC	
IC	
BD	
20210182-10	

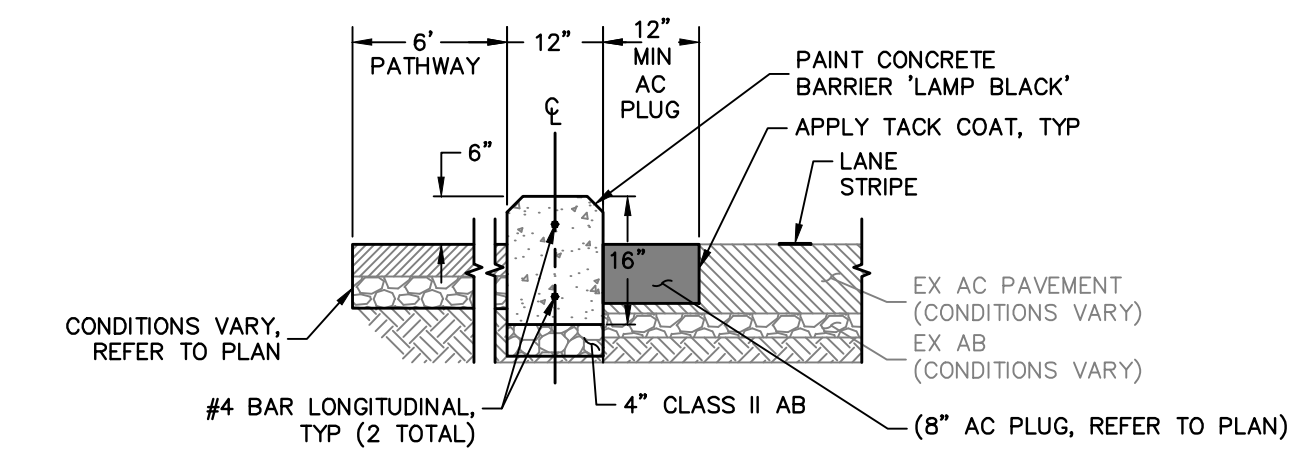
Drawing Number:  
**CD-1**  
12 OF 12



**WALTERS ROAD DETAIL**  
SCALE: 1"=10'

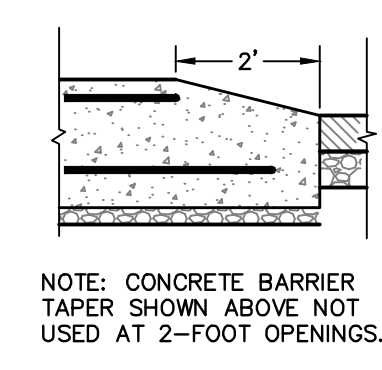


**MONTE ALEGRE ROAD DETAIL**  
SCALE: 1"=10'

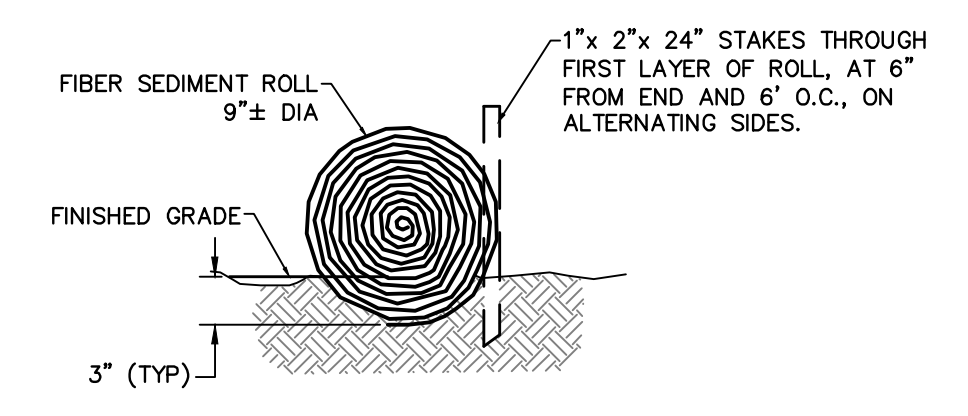


- NOTES**
- EXISTING PAVEMENT SECTION THICKNESSES VARY. REFER TO THE GEOTECHNICAL REPORT.
  - SCARIFY AND RE-COMPACT TOP 6" OF AGGREGATE BASE TO 95% MIN (IF AGGREGATE BASE IS ENCOUNTERED AT DIGOUT DEPTH).
  - SCARIFY AND RE-COMPACT TOP 6" MIN OF SUBGRADE SOILS TO 95% MIN (IF NATIVE SUBGRADE IS ENCOUNTERED AT DIGOUT DEPTH).

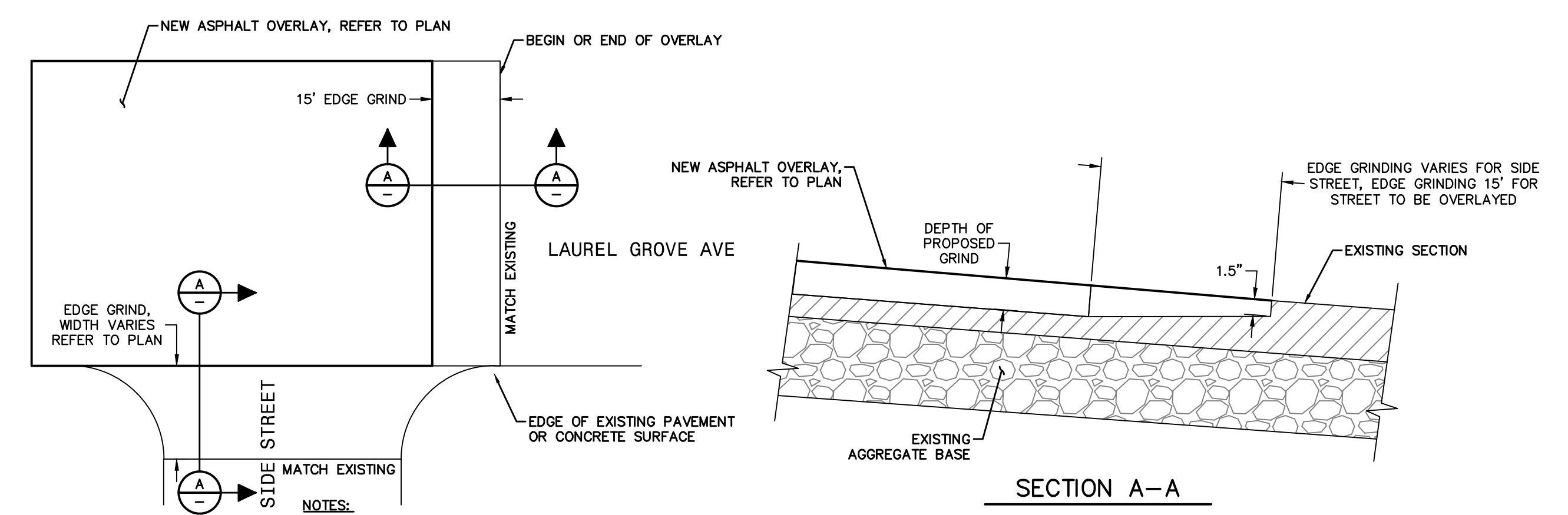
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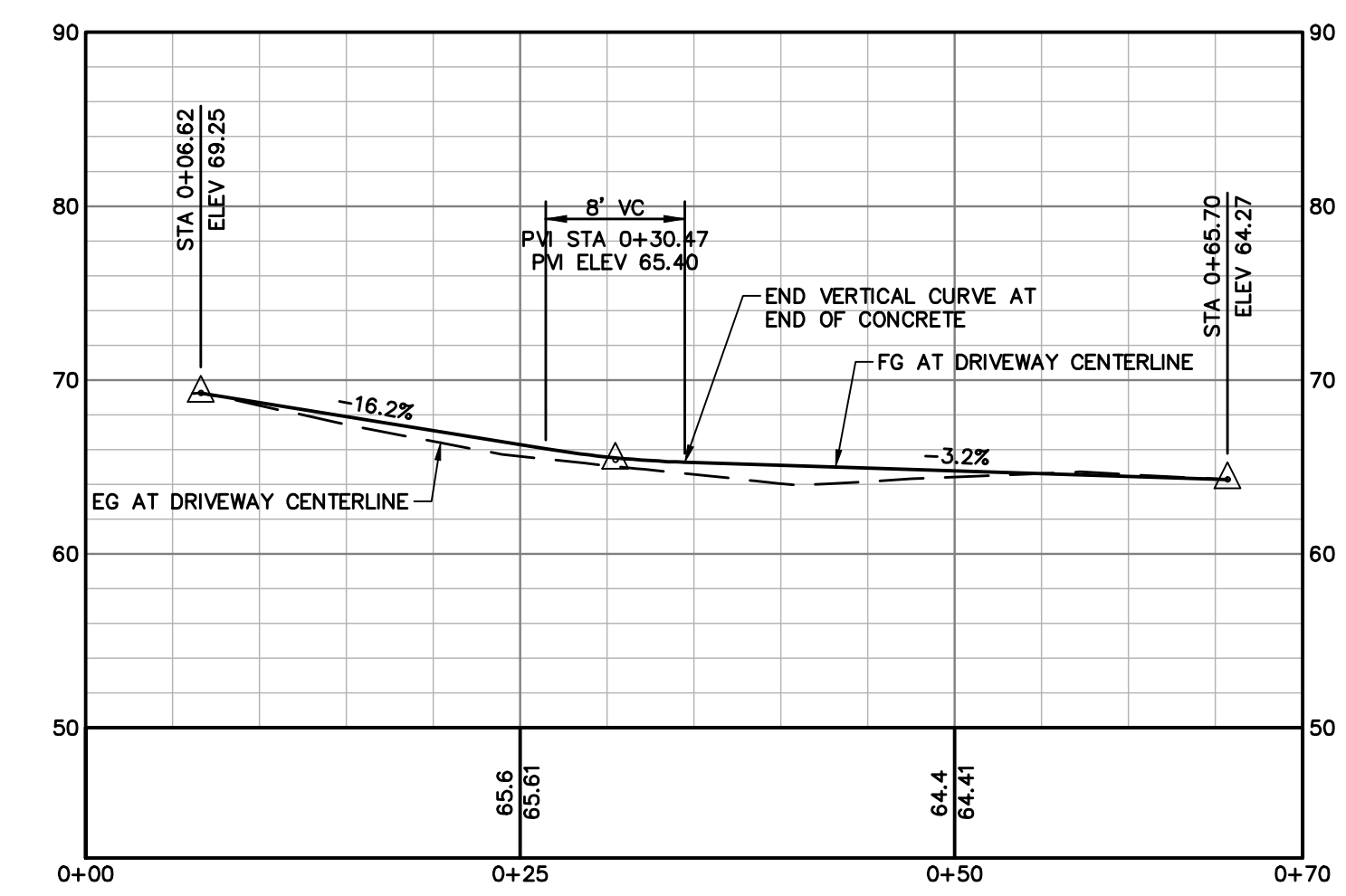
**4 CONCRETE BARRIER TAPER**  
NO SCALE



**2 FIBER ROLL**  
NO SCALE



**3 END OF PAVEMENT REHABILITATION CONFORM**  
NO SCALE



**DRIVEWAY CENTERLINE**

H: 1"=10'  
V: 1"=10'