

APPROVED AS TO IMPACT ON STATE FACILITIES AND CONFORMANCE WITH APPLICABLE STATE STANDARDS AND PRACTICES AND THAT TECHNICAL OVERSIGHT WAS PERFORMED.
 DATE SIGNED
 LICENSE Exp DATE
 REGISTRATION No.
 CALTRANS DESIGN OVERSIGHT APPROVAL
 CONSULTANT DESIGN MANAGER

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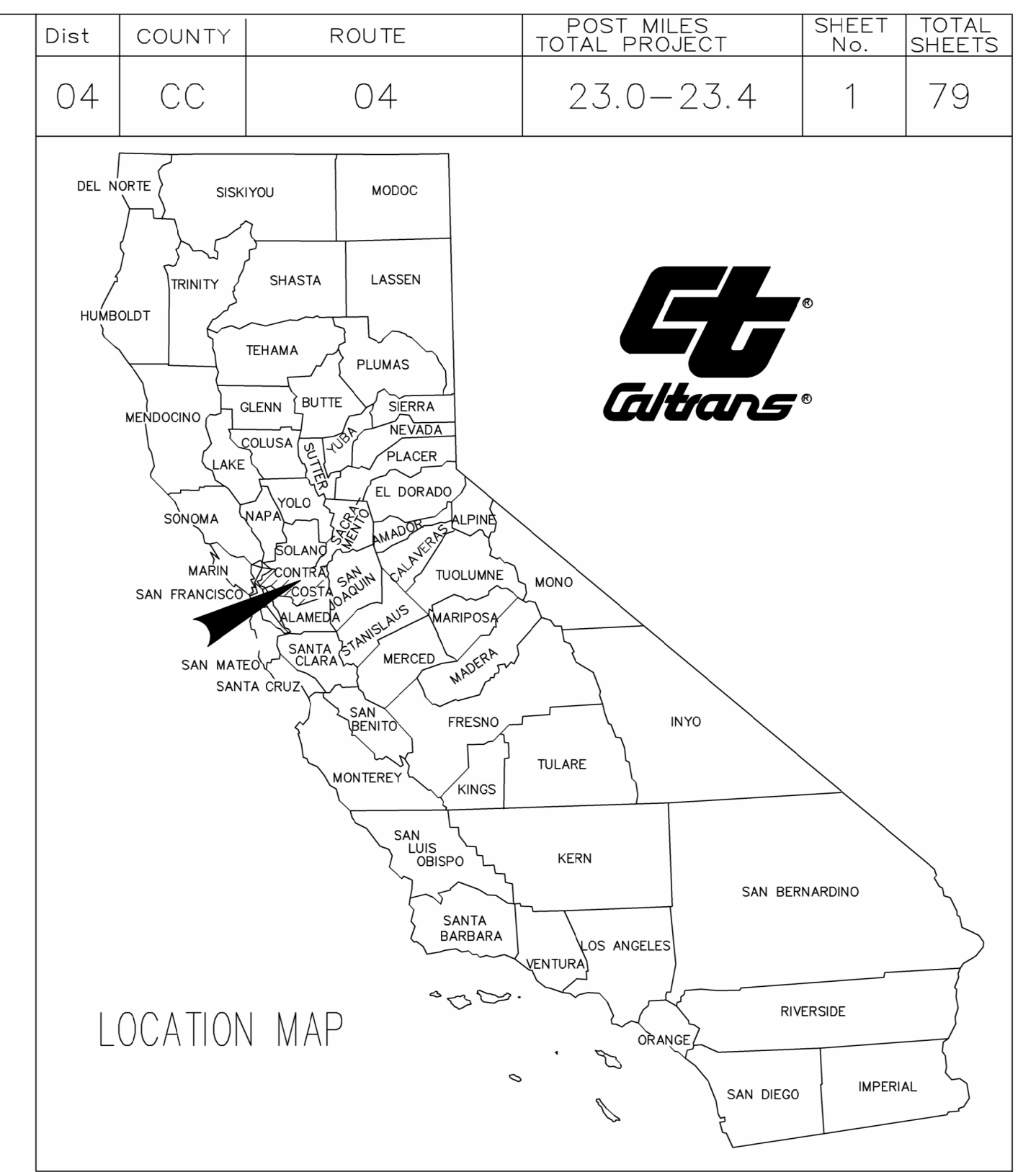
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 PROJECT PLANS FOR CONSTRUCTION ON
 STATE HIGHWAY AND CITY STREET
 IN CONTRA COSTA COUNTY
 IN PITTSBURG BETWEEN
 RAILROAD AVENUE AND HARBOR STREET

BART PEDESTRIAN AND
 BIKE CONNECTIVITY PROJECT
 FEDERAL PROJECT NO. CML 5127(036)
 CALTRANS CONTRACT NO. 04-2W5804
 CITY PROJECT NO. 2019-03

TO BE SUPPLEMENTED BY THE CITY OF PITTSBURG STANDARD DETAILS DATED 2022,
 THE CONTRA COSTA COUNTY STANDARD PLANS DATED MARCH 2014,
 AND THE STATE OF CALIFORNIA STANDARD PLANS DATED 2022, AND ALL APPLICABLE REVISIONS.

THE CITY COUNCIL OF THE CITY OF PITTSBURG

CITY MAYOR: JUAN ANTONIO BANALES
 COUNCIL MEMBER: SHANNELLE SCALES-PRESTON
 COUNCIL MEMBER: DIONNE ADAMS
 COUNCIL MEMBER: ANGELICA LOPEZ
 VICE-MAYOR: JELANI KILLINGS
 CITY MANAGER: GARRETT EVANS
 CITY CLERK: MELAINE VENENCIANO
 CITY ENGINEER: JOHN SAMUELSON



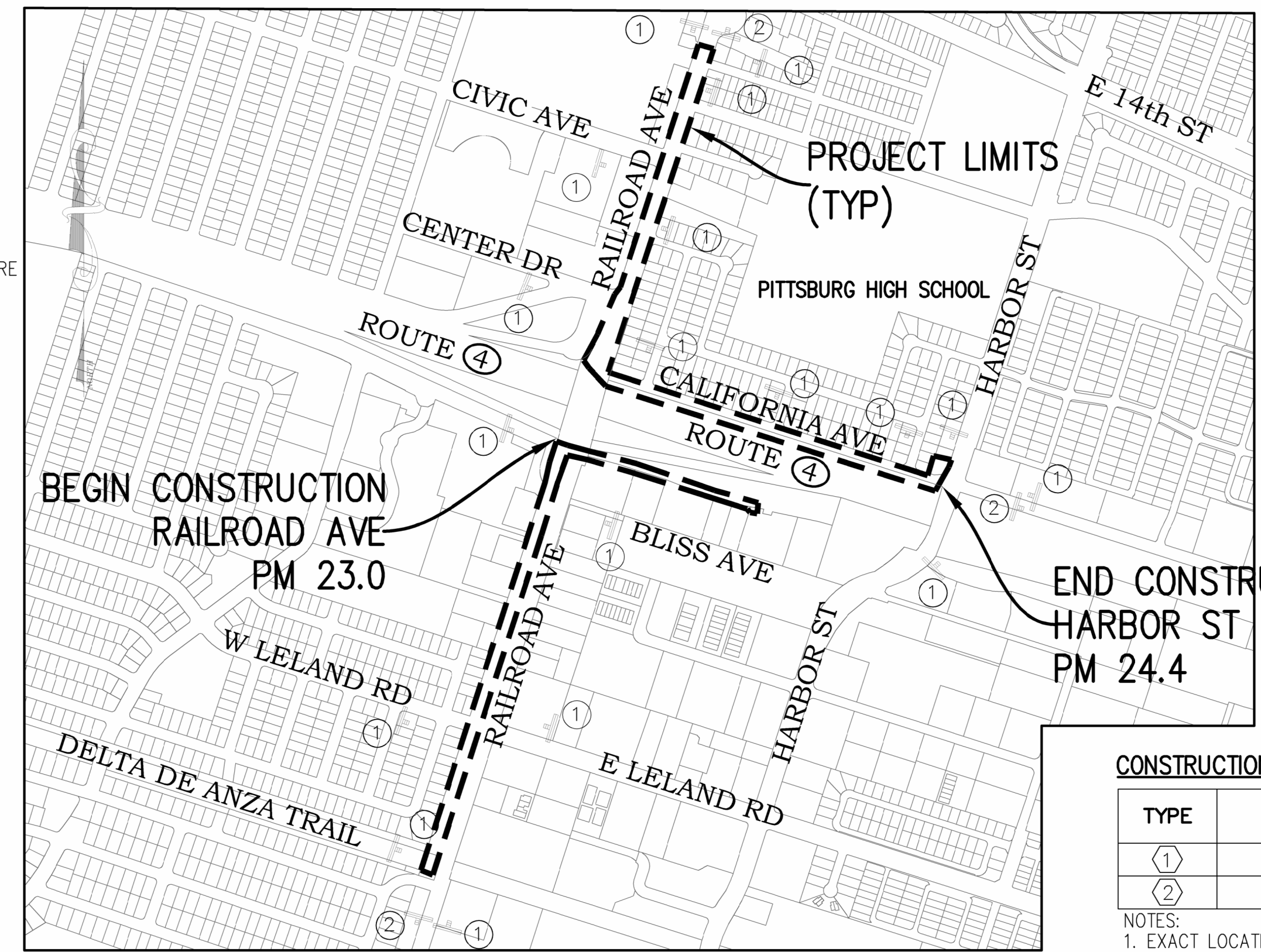
ABBREVIATIONS

FOR ABBREVIATIONS NOT SHOWN, SEE STATE STD PLANS A3A, A3B, A3C

AB - AGGREGATE BASE	EX - EXISTING	PRC - POINT OF REVERSE CURVATURE
AC - ASPHALT CONCRETE	FG - FINISHED GRADE	R - RADIUS
ANG. PT - ANGLE POINT	FL - FLOW LINE	RT - RIGHT
BC - BEGIN CURVE	FOC - FACE OF CURB	R/W - RIGHT OF WAY
BW - BACK OF WALK	HDPE - HIGH DENSITY POLYETHYLENE PIPE	S - SLOPE
CL - CLASS	HMA - HOT MIX ASPHALT	SD - STORM DRAIN
C - CENTERLINE	HP - HIGH POINT	SF - SQUARE FEET
CO - CLEANOUT	HWY - HIGHWAY	STA - STATION
DG - DECOMPOSED GRANITE	INV - INVERT	SW - SIDEWALK
DI - DRAINAGE INLET	LF - LINEAR FEET	TCD - TRASH CAPTURE DEVICE
EC - END CURVE	LT - LEFT	TFC - TOP FACE OF CURB
EL - ELEVATION	MH - MANHOLE	TG - TOP OF GRATE
ES - EDGE OF SHOULDER	PCC - POINT OF COMPOUND CURVATURE	

NOTES:

- THE CONTRACTOR SHALL INSPECT THE PROJECT SITE PRIOR TO SUBMITTING A BID IN ORDER TO OBSERVE AND DETERMINE THE EXISTING JOB SITE CONDITIONS. LANDSCAPING FEATURES AND OVERHEAD UTILITIES ARE NOT SHOWN ON THE PLANS.
- THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. THESE PLANS DO NOT INCLUDE COMPONENTS NECESSARY FOR CONSTRUCTION SAFETY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE FOR THE SAFETY OF ALL PERSONS AND PROPERTY DURING THE COURSE OF THE PROJECT AND TO COMPLY WITH CONSTRUCTION SAFETY ORDERS AND CAL/OSHA REQUIREMENTS.
- THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS ARE PLOTTED FROM SCHEMATIC DRAWINGS PROVIDED BY THE UTILITY COMPANIES AND ARE APPROXIMATE LOCATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES INCLUDING ALL OVERHEAD AND BURIED UTILITIES WITHIN THE WORK AREA PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL PROCEED WITH CAUTION DURING EXCAVATION OPERATIONS AND SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ALL UTILITIES DAMAGED DURING CONSTRUCTION AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (U.S.A.) AT (800) 227-2600 A MINIMUM OF 48 HOURS IN ADVANCE OF ANY EXCAVATION.
- TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. ALL TRAFFIC CONTROL AND DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL PROVIDE FOR CONTINUOUS INGRESS AND EGRESS TO ALL PRIVATE PROPERTY ADJACENT TO THE WORK THROUGHOUT THE PERIOD OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO THE SITE OR THE SURROUNDING AREA AS A RESULT OF THE CONTRACTOR'S WORK OR OPERATIONS. EXISTING FACILITIES THAT ARE DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.



LEGEND

FOR LINE TYPES AND SYMBOLS NOT SHOWN, SEE STATE STD PLANS A10A-A10E

	EX FIRE HYDRANT		EXISTING ELECTRIC LINE
	EX MAINTENANCE HOLE		EXISTING CABLE LINE
	EX UTILITY BOX		EXISTING TELEPHONE LINE
	WATER VALVE		EXISTING STORM DRAIN
	CONSTRUCTION AREA SIGNS		EXISTING OVERHEAD LINE
	MONUMENT		EXISTING WATER LINE
	EX DRAINAGE INLET		EXISTING SEWER LINE
	GRADING LIMITS		EXISTING GAS LINE
	CITY BOUNDARY		EXISTING NITROGEN LINE
	PARCEL LINES		EXISTING FENCE
	RIGHT-OF-WAY		EXISTING RECLAIMED WATER LINE
	SAWCUT		EXISTING FIBER OPTIC

CONSTRUCTION AREA SIGNS

TYPE	DESCRIPTION	MUTCD CODE	QTY
(1)	ROAD WORK AHEAD	W20-1	18
(2)	END ROAD WORK	G20-2	3

NOTES:
1. EXACT LOCATIONS OF SIGNS SHALL BE APPROVED BY THE ENGINEER.



1-800-227-2600 OR 811

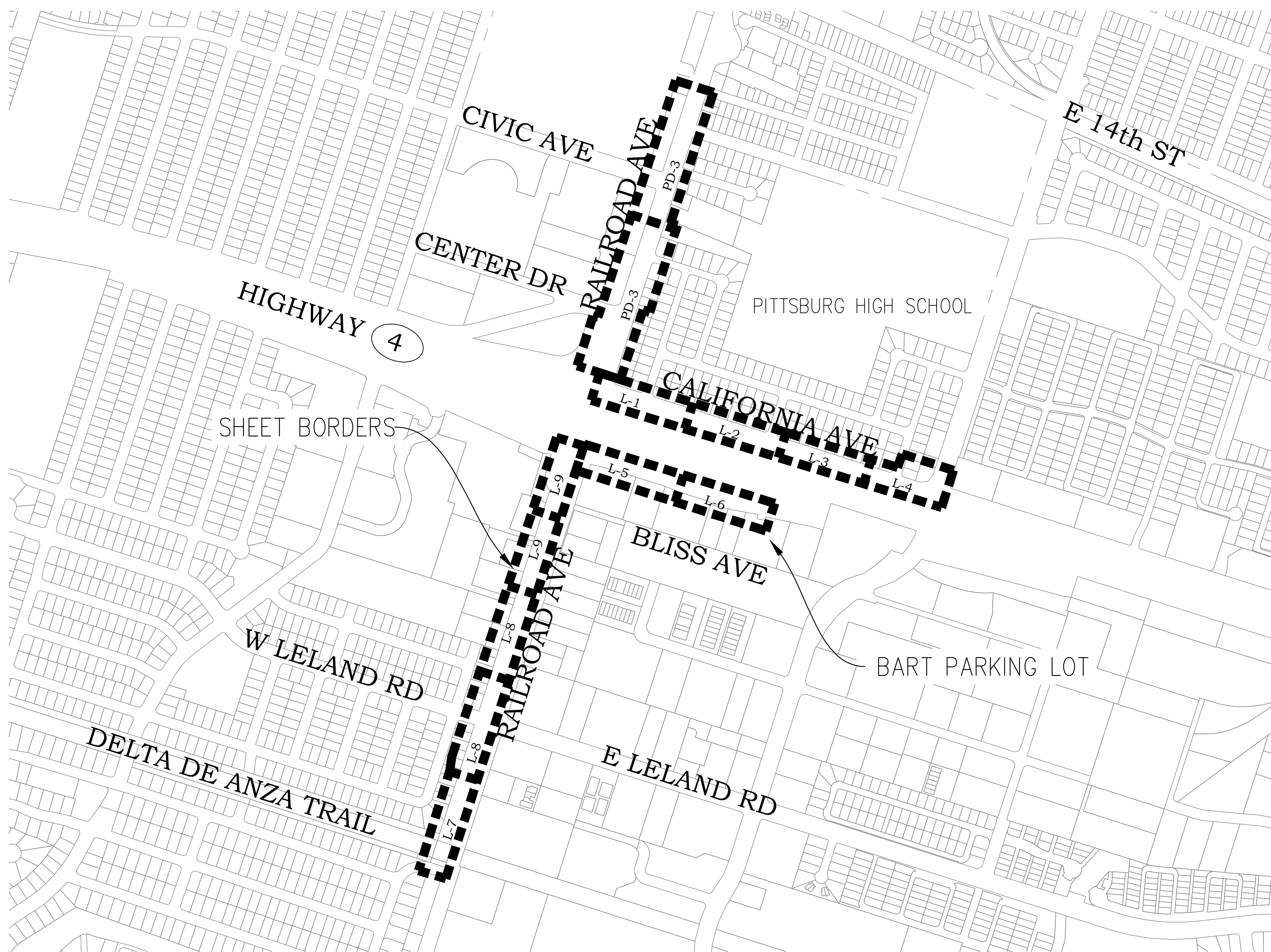
JOHN SAMUELSON, P.E., CITY ENGINEER, CE 67734
 ACCEPTANCE OF THESE IMPROVEMENT PLANS BY THE CITY ENGINEER SHALL NOT RELIEVE THE ENGINEER OF RECORD FOR THE DESIGN NOR FROM ANY DEFICIENCIES RESULTING FROM THE DESIGN THEREOF.

CITY ENGINEER SHALL SIGN ANY REVISION PRIOR OR DURING CONSTRUCTION. A COPY OF THE REVISION SHALL BE SUBMITTED TO THE CITY THROUGH ELECTRONIC OR HARD COPY FORMAT.

A "RECORD DRAWING" SHALL BE SUBMITTED TO THE CITY THROUGH ELECTRONIC OR HARD COPY PRIOR TO ACCEPTANCE OF THE WORK AS COMPLETE.

CITY OF PITTSBURG 65 CIVIC AVENUE PITTSBURG, CA 94565	
CONTRACT No.	2018-03
PROJECT ID	0421000238

DATE PLOTTED =>
 TIME PLOTTED =>
 LAST REVISION



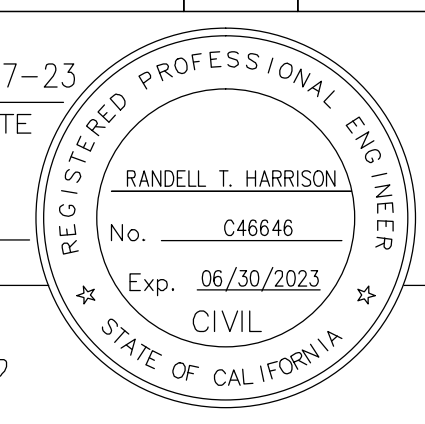
KEY PLAN
 SCALE: 1"=300'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	2	79

REGISTERED CIVIL ENGINEER
 DATE: 01-17-23
 PLANS APPROVAL DATE:

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

HARRISON ENGINEERING INC.
 1987 BONIFACIO STREET
 CONCORD, CA 94520
 CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



SURVEYOR / PROJECT NOTES:

HORIZONTAL DATUM/PROJECT COORDINATES:
 THE COORDINATES SHOWN ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983 (NAD 83 (2011)) ZONE 3, (EPOCH 2010.00)

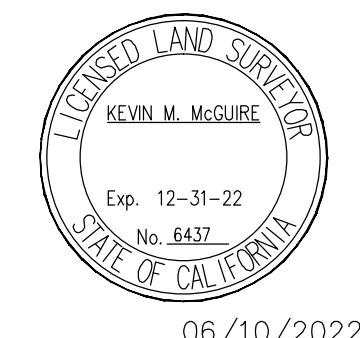
BASIS OF BEARINGS:
 N 69°38'05" W 645.30' AS MEASURED BETWEEN A BRASS DISC SURVEY MONUMENT IN SURVEY WELL AT CALIFORNIA AVENUE AND CLYDE AVENUE AND A 2"IRON PIPE MONUMENT IN CONCRETE FOUND BEHIND THE SIDEWALK AT THE EASTERLY CORNER OF CALIFORNIA AVENUE AT AVON STREET.

BASIS OF ELEVATIONS:
 THE ELEVATIONS SHOWN HEREON WERE DERIVED FROM LONG-OCCUPATION STATIC GPS DATA COLLECTED USING A CHCX90D-OPUS GPS RECEIVER GATHERING L-1/L-2 DATA AND POST-PROCESSED USING THE OPUS/CORS NETWORK. ALL ELEVATIONS ARE EXPRESSED IN NAVD 1988 DATUM.

PROJECT CONTROL AND BENCHMARK POINTS:
 THE CONTROL POINT AND PROJECT BENCHMARK DATA TABLES ARE SHOWN ON SHEETS L-1, L-5 AND L-9.

SURVEY METHODS AND EQUIPMENT:
 ALL SURVEY DATA WAS COLLECTED USING A COMBINATION OF TRAVERSE AND RADIAL TOPOGRAPHY SURVEY METHODS USING A TRIMBLE S-7 TOTAL STATION INSTRUMENT, CHCX90D-OPUS STATIC GPS RECEIVER, AND A CARLSON BRX6+ RTK GPS SYSTEM.

SURVEYOR'S CERTIFICATION:
 I, KEVIN M. MCGUIRE, A REGISTERED PROFESSIONAL LAND SURVEYOR, DULY LICENSED BY THE LAWS OF THE STATE OF CALIFORNIA DO HEREBY STATE AND AFFIRM THAT THE SURVEY DATA, TOPOGRAPHIC CONTOURS, LOCATIONS OF EXISTING IMPROVEMENTS, RIGHT-OF-WAY LINES SHOWN HEREON, AND THE HORIZONTAL AND VERTICAL CONTROL SURVEY DATA PROVIDED HEREIN ARE BASED ON ITEMS OF PUBLIC RECORD AND A FIELD SURVEY THAT WAS CONDUCTED FROM DECEMBER 2019 THROUGH APRIL OF 2020 BY OUR COMPANY SURVEY CREWS OPERATING UNDER MY DIRECTION AND SUPERVISION, AND THAT THE SURVEY INFORMATION AND DATA AS CONTAINED HEREIN ARE TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.



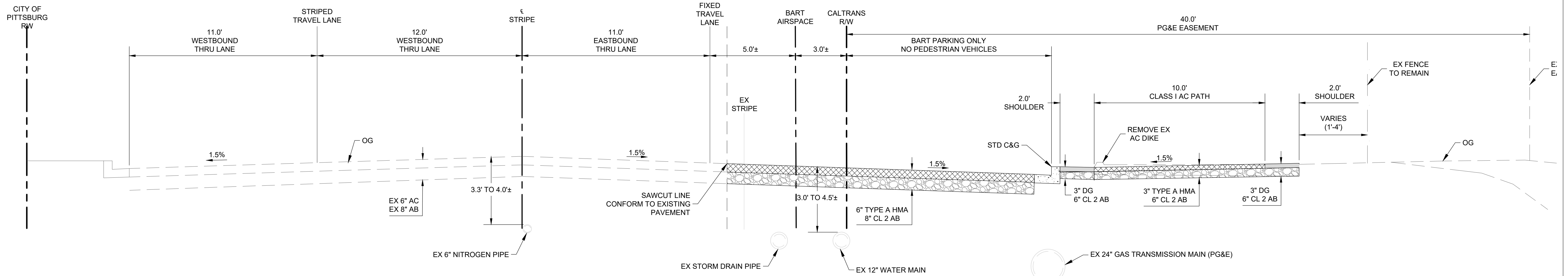
KEVIN M. MCGUIRE, CA PLS #6437
 DATE: 06/10/2022

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	3	79

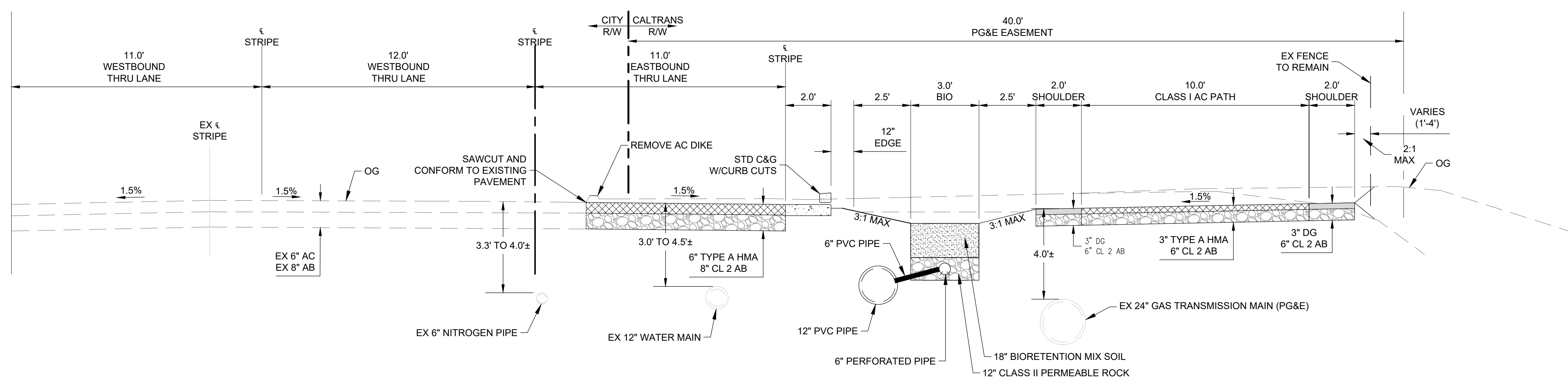
JOHN SAMUELSON, CITY ENGINEER, CE 67734
 DATE _____
 PLANS APPROVAL DATE _____
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



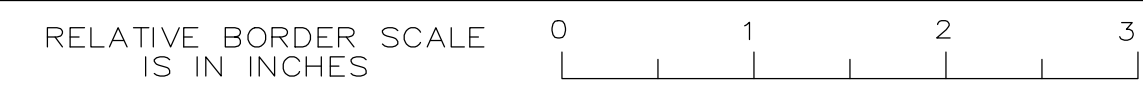
CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



A
 X-1
 PROPOSED SECTION @ BART PARKING
 (CALIFORNIA AVENUE)
 LOOKING WEST TO EAST

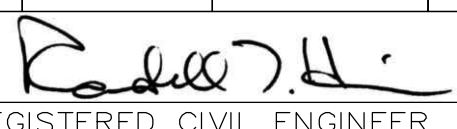


B
 X-1
 TYPICAL PROPOSED SECTION
 (CALIFORNIA AVENUE)
 LOOKING WEST TO EAST

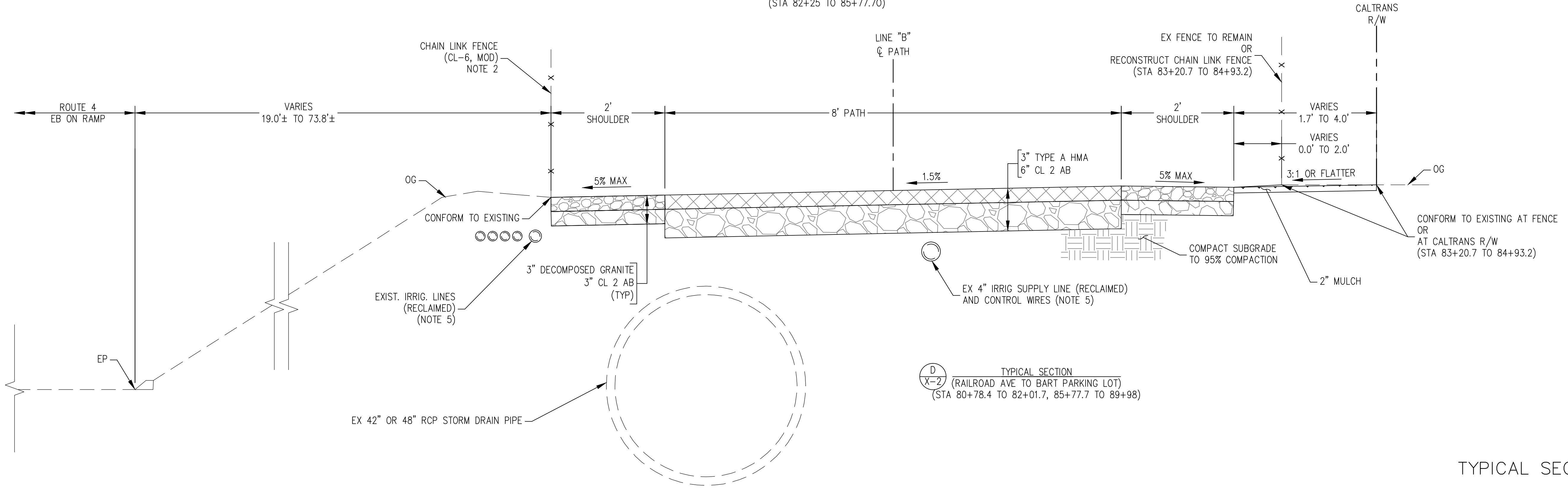
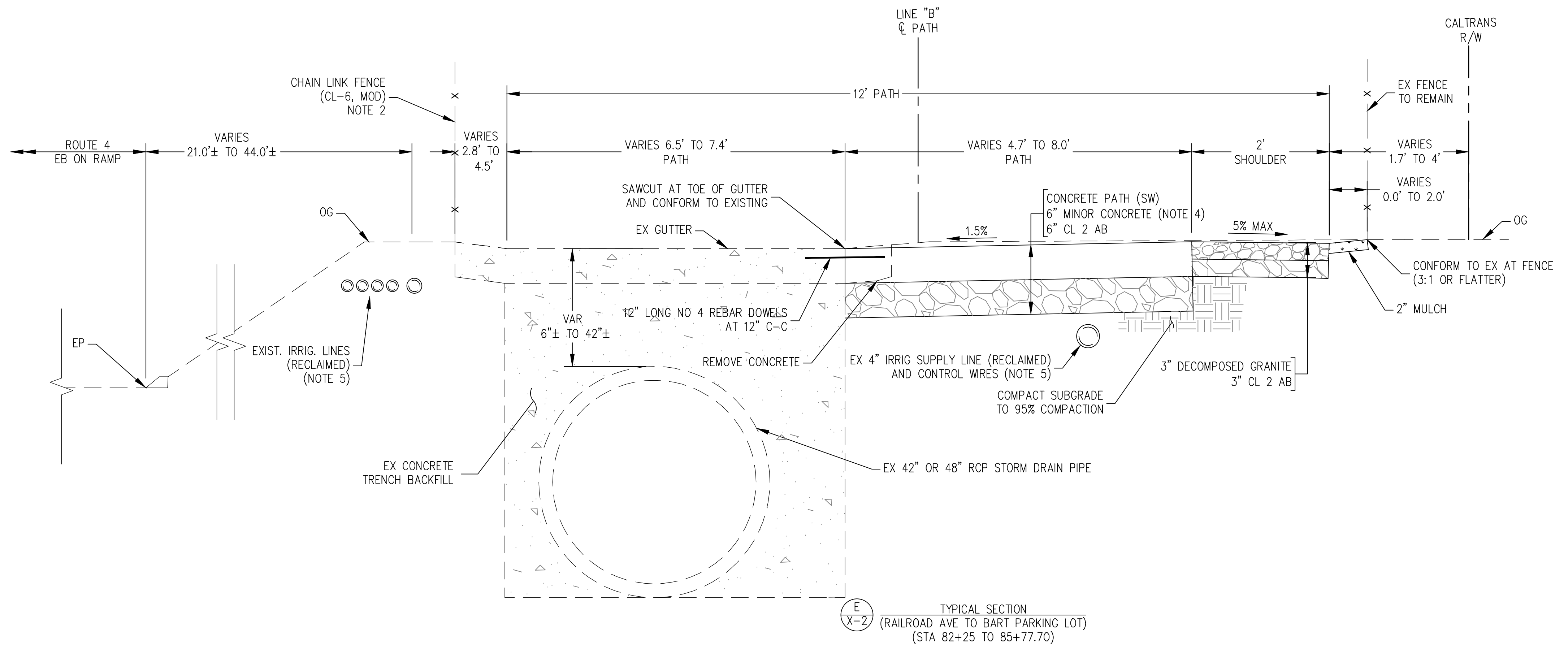


- NOTES**
- DIMENSIONS OF THE PAVEMENT STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
 - CHAIN LINK FENCE (CL-6, MOD) SHALL CONFORM TO THE STATE STANDARDS FOR TYPE CL-6 FENCE, EXCEPT THE FENCE FABRIC SHALL BE 1-INCH MESH. LOCATE EXISTING IRRIGATION AND HAND DIG POST HOLES.
 - BEARINGS AND DISTANCES ARE CALIFORNIA COORDINATE SYSTEM, ZONE 3, NAD83, EPOCH 2010.0000. GROUND TO GRID CONVERSION FACTOR IS 0.99994135.
 - CONSTRUCT TRANSVERSE JOINTS IN CONCRETE PATH AT 10' C-C.
 - EXISTING IRRIGATION SUPPLY LINE AND CONTROL WIRES TO REMAIN SHALL BE LOCATED AND TESTED PRIOR TO EXCAVATION AND AFTER CONSTRUCTION. SEE SPECIAL PROVISIONS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	4	79


 REGISTERED CIVIL ENGINEER
 DATE 01-17-23
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.
 HARRISON ENGINEERING INC.
 1987 BONIFACIO STREET
 CONCORD, CA 94520
 CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565


REGISTERED PROFESSIONAL ENGINEER
 RANDELL T. HARRISON
 No. C46646
 Exp. 06/30/2023
 CIVIL
 STATE OF CALIFORNIA



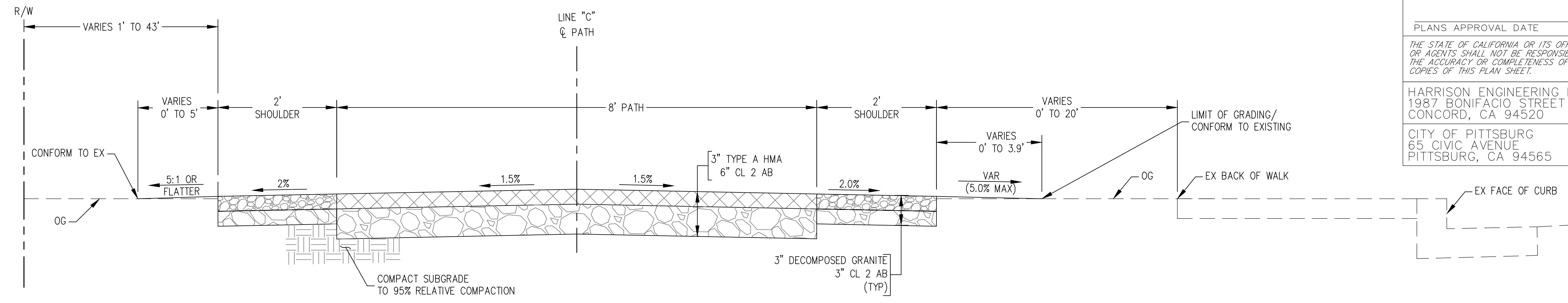
TYPICAL SECTIONS
 X-2

- NOTES
- DIMENSIONS OF THE PAVEMENT STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
 - FOR LANDSCAPING DETAILS NOT SHOWN, SEE IRRIGATION AND PLANTING PLANS.
 - BEARINGS AND DISTANCES ARE CALIFORNIA COORDINATE SYSTEM, ZONE 3, NAD83, EPOCH 2010.0000. GROUND TO GRID CONVERSION FACTOR IS 0.99994135.

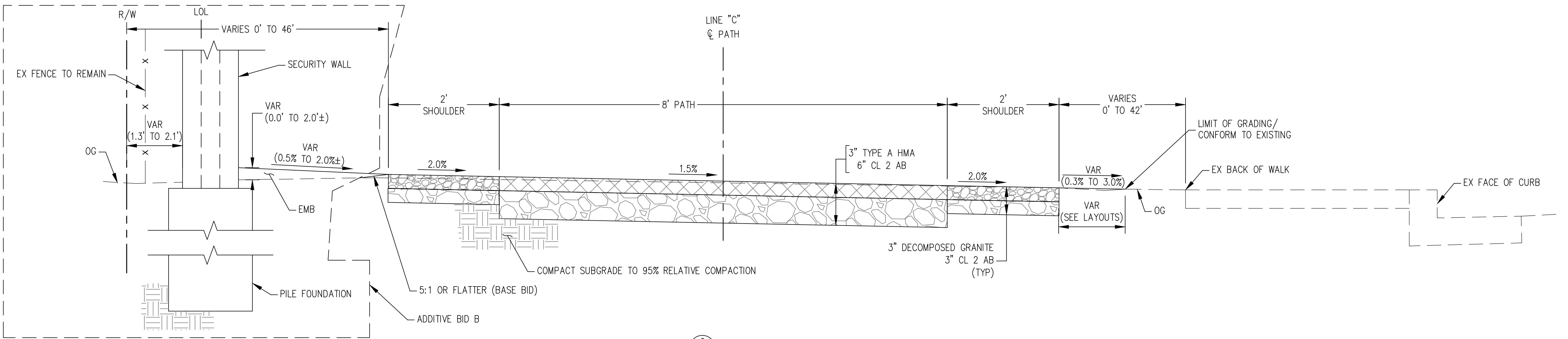
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	5	79


 REGISTERED CIVIL ENGINEER
 DATE 01-17-23
 PLANS APPROVAL DATE
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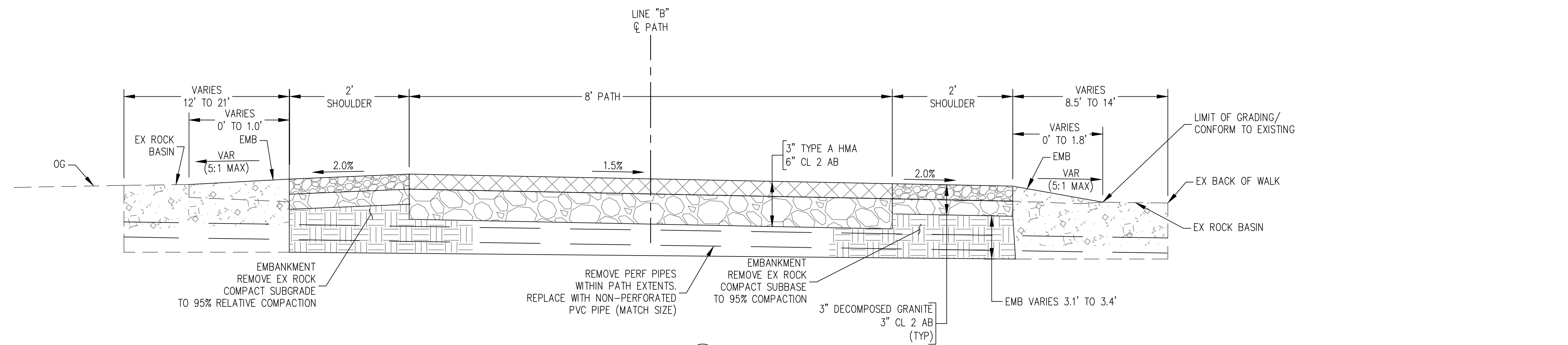
HARRISON ENGINEERING INC.
 1987 BONIFACIO STREET
 CONCORD, CA 94520
 CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



(H) X-3 TYPICAL SECTION
 (RAILROAD AVENUE STA 22+06.19 TO 33+98.88)

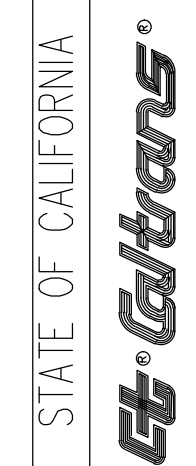


(G) X-3 TYPICAL SECTION
 (RAILROAD AVENUE STA 10+35.48 TO 22+06.19)



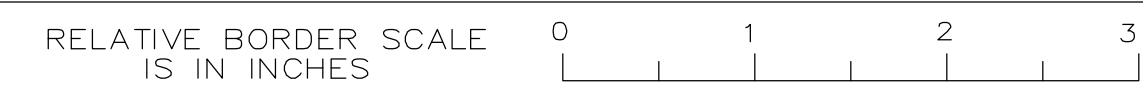
(F) X-3 TYPICAL SECTION
 (IN BART PARKING LOT STA 89+98 TO 90+25)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Functional Supervisor: RANDELL HARRISON
 Designed By: RANDELL HARRISON
 Checked By: RANDELL HARRISON
 Revised By: DATE
 01/17/2023
 01/17/2023



BORDER LAST REVISED 8/1/2010

USERNAME => FRANCISCO
 DWG FILE => 03-bpbc-x-1.dwg



UNIT PROJECT NUMBER & PHASE 0421000238 EA 2W580

TYPICAL SECTIONS
 X-3

LAST REVISION 01-17-23
 DATE PLOTTED =>
 TIME PLOTTED =>

- NOTES:
- SEE LAYOUT PLAN (SHEETS L-1 TO L-9) FOR UTILITY ADJUSTMENTS AND ROADSIDE SIGN RELOCATIONS
 - REMOVE AC DIKE SHALL BE INCLUDED UNDER ROADWAY EXCAVATION.
 - THE CONTRACTOR SHALL STAGE THE WORK TO PROVIDE BART STAFF VEHICLE PARKING AT ALL TIMES. CONTRACTOR TO COORDINATE WITH BART.
 - SEE SHEET L-1 FOR CONTROL POINTS DATA AND LINE "A" DATA.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	6	79

JOHN SAMUELSON, CITY ENGINEER, CE 67734 DATE _____

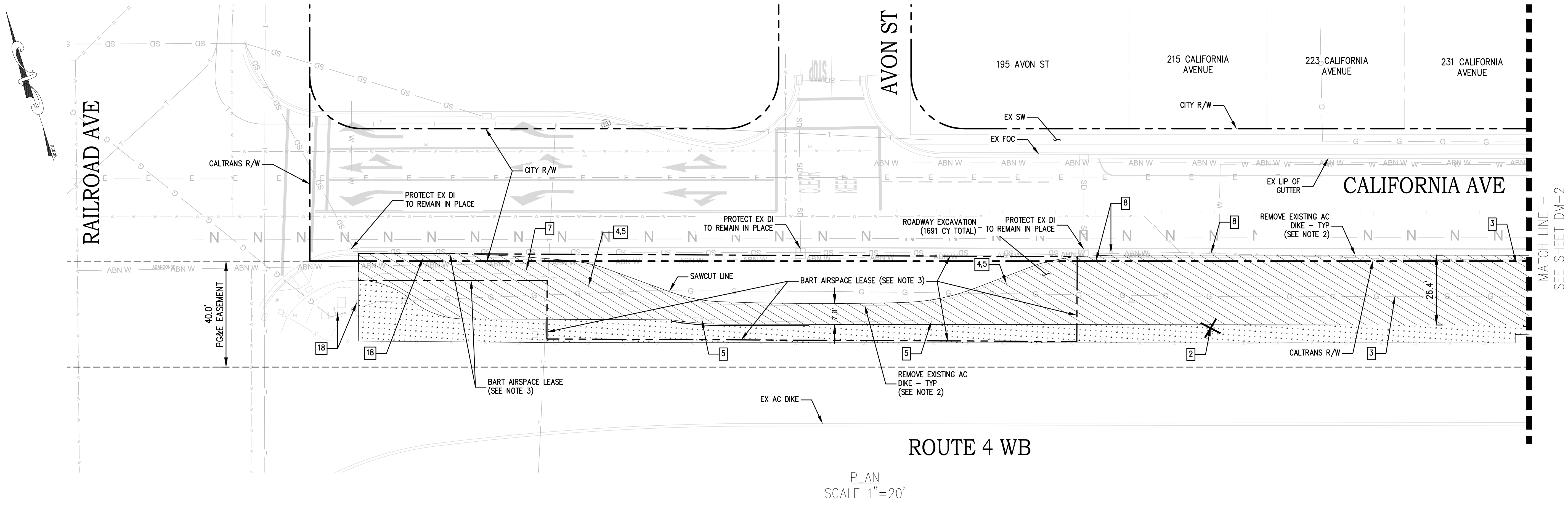
PLANS APPROVAL DATE _____

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



CITY OF PITTSBURG
65 CIVIC AVENUE
PITTSBURG, CA 94565

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR
 DESIGNED BY DANYE JOHNSON
 CHECKED BY JOHN SAMUELSON
 REVISED BY DATE
 1/9/2024
 1/9/2024



PLAN SCALE 1"=20'

LEGEND: DEMOLITION PLAN (SHEETS DM-1 TO DM-8 ONLY)

- REMOVE TREE
- REMOVE TRAFFIC STRIPING, PAVEMENT MARKER, OR PAVEMENT MARKING
- REMOVE CONCRETE (INCLUDES SIDEWALK, CURB RAMPS, DRIVEWAYS, CURB, AND GUTTER)
- ROADWAY EXCAVATION
- CLEARING AND GRUBBING

DEMOLITION PLAN TABLE (SHEETS DM-1 TO DM-8 ONLY)

1	REMOVE TREE	15	EX ELECTRICAL TRANSFORMER (REMAIN IN PLACE)
2	REMOVE TREE STUMP	16	EX ELECTRICAL PANEL (REMAIN IN PLACE)
3	REMOVE ROADSIDE SIGN	17	EX TREE (REMAIN IN PLACE)
4	REMOVE ROADSIDE SIGN PANEL (NO PARKING TOW AWAY ZONE)	18	REMOVE ROADSIDE SIGN (PG&E GAS MARKER)
5	RELOCATE ROADSIDE SIGN (NOTE 1)	19	REMOVE IRRIGATION CONTROL VALVE (NOTE 2)
6	REMOVE DRAINAGE INLET	20	EX IRRIGATION VALVE COVER TO REMAIN (REMAIN IN PLACE)
7	EX GAS VALVE COVER (PG&E) (NOTE 1)	21	RELOCATE IRRIGATION VALVE AND COVER
8	EX CITY WATER VALVE COVER (NOTE 1)	22	EX CITY STREET LIGHTING BOX
9	EX ELECTRICAL TOWER (REMAIN AND PROTECT IN PLACE)	23	EX RAMP METERING BOX (CALTRANS) (NOTE 1)
10	EX ELECTRICAL VAULT (REMAIN IN PLACE)	24	EX TRAFFIC OPERATIONS SYSTEM BOX (CALTRANS) (NOTE 1)
11	EX TRAFFIC SIGNAL BOX (NOTE 1)	25	EX STREET LIGHTING BOX (CALTRANS) (NOTE 1)
12	EX TELECOM BOX (AT&T) (NOTE 1)	26	EX SIGNAL INTERCONNECT BOX (CALTRANS) (NOTE 1)
13	EX CITY WATER METER (NOTE 1)	27	EX CITY INTERCONNECT BOX (CALTRANS) (NOTE 1)
14	EX ELECTRICAL BOX (PG&E) (NOTE 1)	28	EX TELECOM BOX (COMCAST) (NOTE 1)

CALIFORNIA AVE DEMOLITION PLAN DM-1

DATE PLOTTED => 1/9/24 TIME PLOTTED =>

- NOTES:
- SEE LAYOUT PLAN (SHEETS L-1 TO L-9) FOR UTILITY ADJUSTMENTS AND ROADSIDE SIGN RELOCATIONS
 - REMOVE AC DIKE SHALL BE INCLUDED UNDER ROADWAY EXCAVATION.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	7	79

JOHN SAMUELSON, CITY ENGINEER, CE 67734 DATE _____

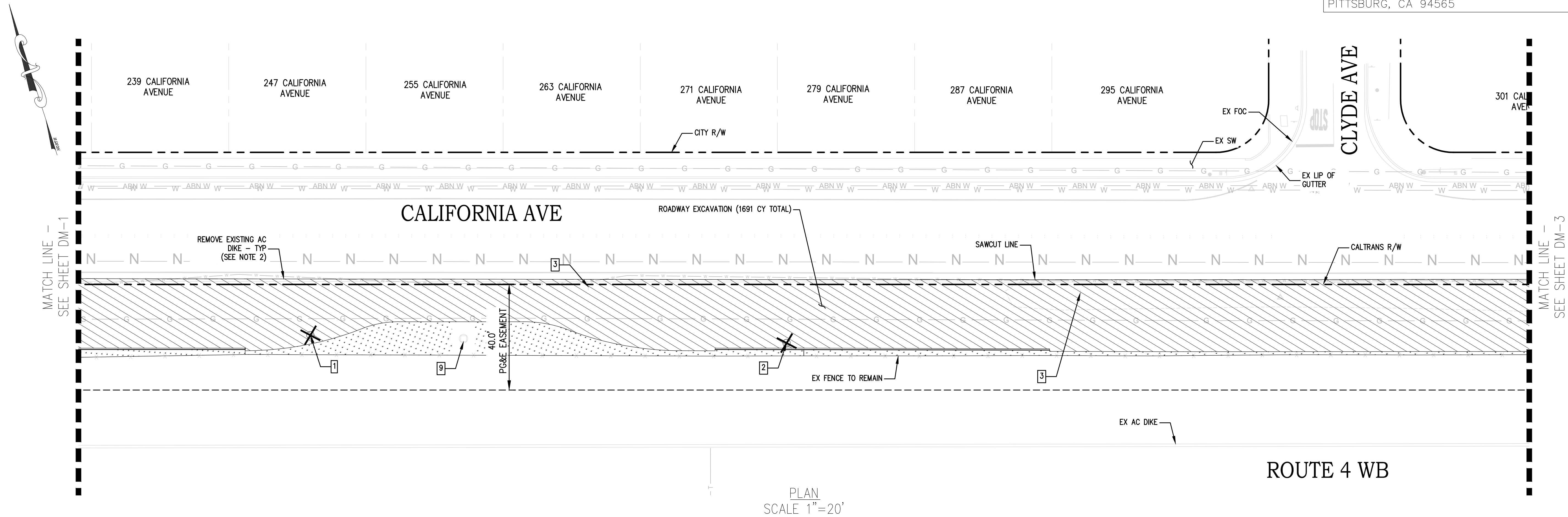
PLANS APPROVAL DATE _____

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



CITY OF PITTSBURG
65 CIVIC AVENUE
PITTSBURG, CA 94565

DATE	1/9/2024
REVISOR	DANYE JOHNSON
DATE	1/9/2024
REVISOR	JOHN SAMUELSON
DESIGNED BY	DANYE JOHNSON
CHECKED BY	JOHN SAMUELSON
FUNCTIONAL SUPERVISOR	
DEPARTMENT OF TRANSPORTATION	
STATE OF CALIFORNIA	



PLAN SCALE 1"=20'

LEGEND: (DEMOLITION PLAN ONLY)

- REMOVE TREE
- REMOVE TRAFFIC STRIPING, PAVEMENT MARKER, OR PAVEMENT MARKING
- REMOVE CONCRETE (INCLUDES SIDEWALK, CURB RAMPS, DRIVEWAYS, CURB, AND GUTTER)
- ROADWAY EXCAVATION
- CLEARING AND GRUBBING

DEMOLITION PLAN TABLE	
1	REMOVE TREE
2	REMOVE TREE STUMP
3	REMOVE ROADSIDE SIGN
9	EX ELECTRICAL TOWER (REMAIN IN PLACE)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	8	79

JOHN SAMUELSON, CITY ENGINEER, CE 67734 DATE _____

PLANS APPROVAL DATE _____

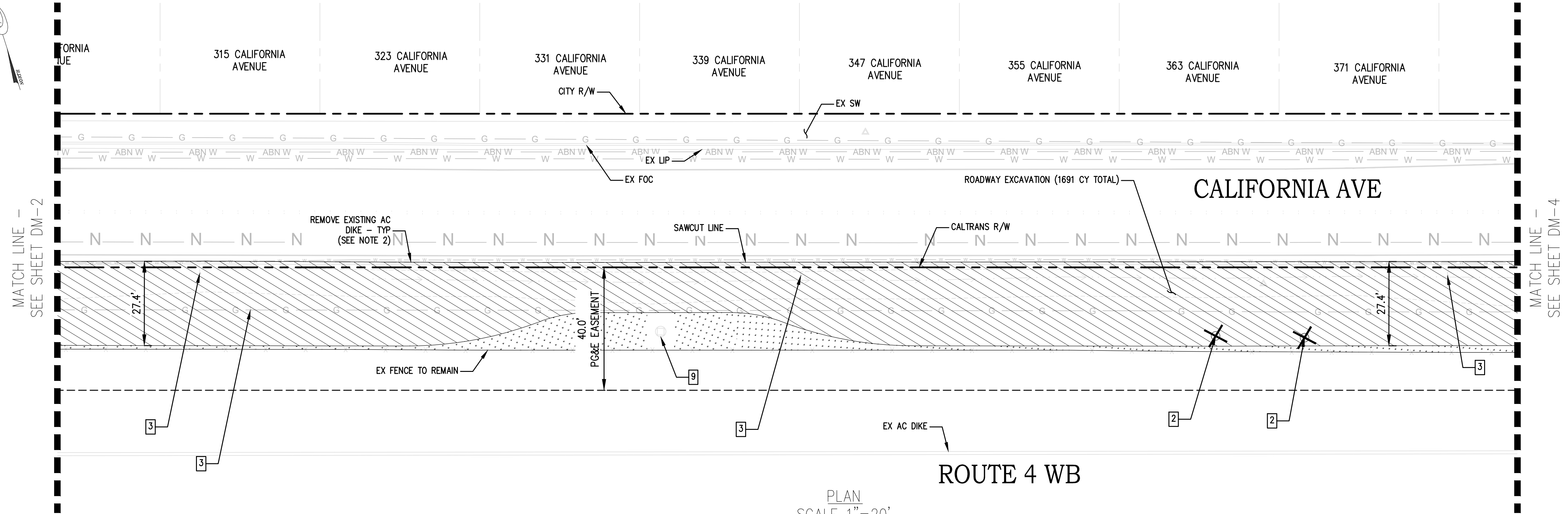
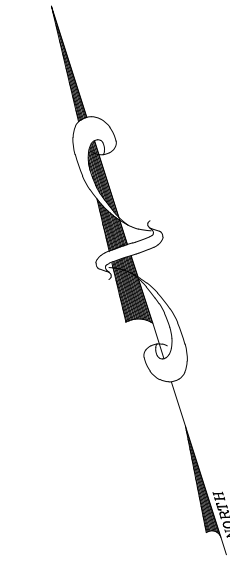
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CITY OF PITTSBURG
65 CIVIC AVENUE
PITTSBURG, CA 94565

- NOTES:
- SEE LAYOUT PLAN (SHEETS L-1 TO L-9) FOR UTILITY ADJUSTMENTS AND ROADSIDE SIGN RELOCATIONS
 - REMOVE AC DIKE SHALL BE INCLUDED UNDER ROADWAY EXCAVATION.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR
 DESIGNED BY DANYE JOHNSON
 CHECKED BY JOHN SAMUELSON
 REVISED BY
 DATE
 1/9/2024
 1/9/2024



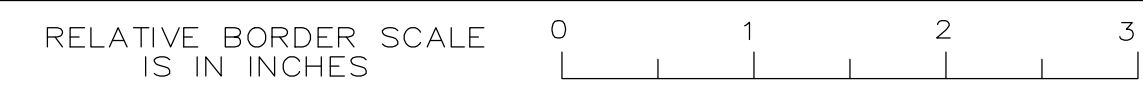
PLAN
SCALE 1"=20'

LEGEND: (DEMOLITION PLAN ONLY)

- REMOVE TREE
- REMOVE TRAFFIC STRIPING, PAVEMENT MARKER, OR PAVEMENT MARKING
- REMOVE CONCRETE (INCLUDES SIDEWALK, CURB RAMPS, DRIVEWAYS, CURB, AND GUTTER)
- ROADWAY EXCAVATION
- CLEARING AND GRUBBING

DEMOLITION PLAN TABLE

[2]	REMOVE TREE STUMP
[3]	REMOVE ROADSIDE SIGN
[5]	RELOCATE ROADSIDE SIGN (NOTE 1)
[9]	EX ELECTRICAL TOWER (REMAIN IN PLACE)



CALIFORNIA AVE DEMOLITION PLAN
DM-3

LAST REVISION 1/9/24 DATE PLOTTED => 1/9/24 TIME PLOTTED =>

- NOTES:
- SEE LAYOUT PLAN (SHEETS L-1 TO L-9) FOR UTILITY ADJUSTMENTS AND ROADSIDE SIGN RELOCATIONS
 - REMOVE AC DIKE SHALL BE INCLUDED UNDER ROADWAY EXCAVATION.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	9	79

JOHN SAMUELSON, CITY ENGINEER, CE 67734 DATE _____

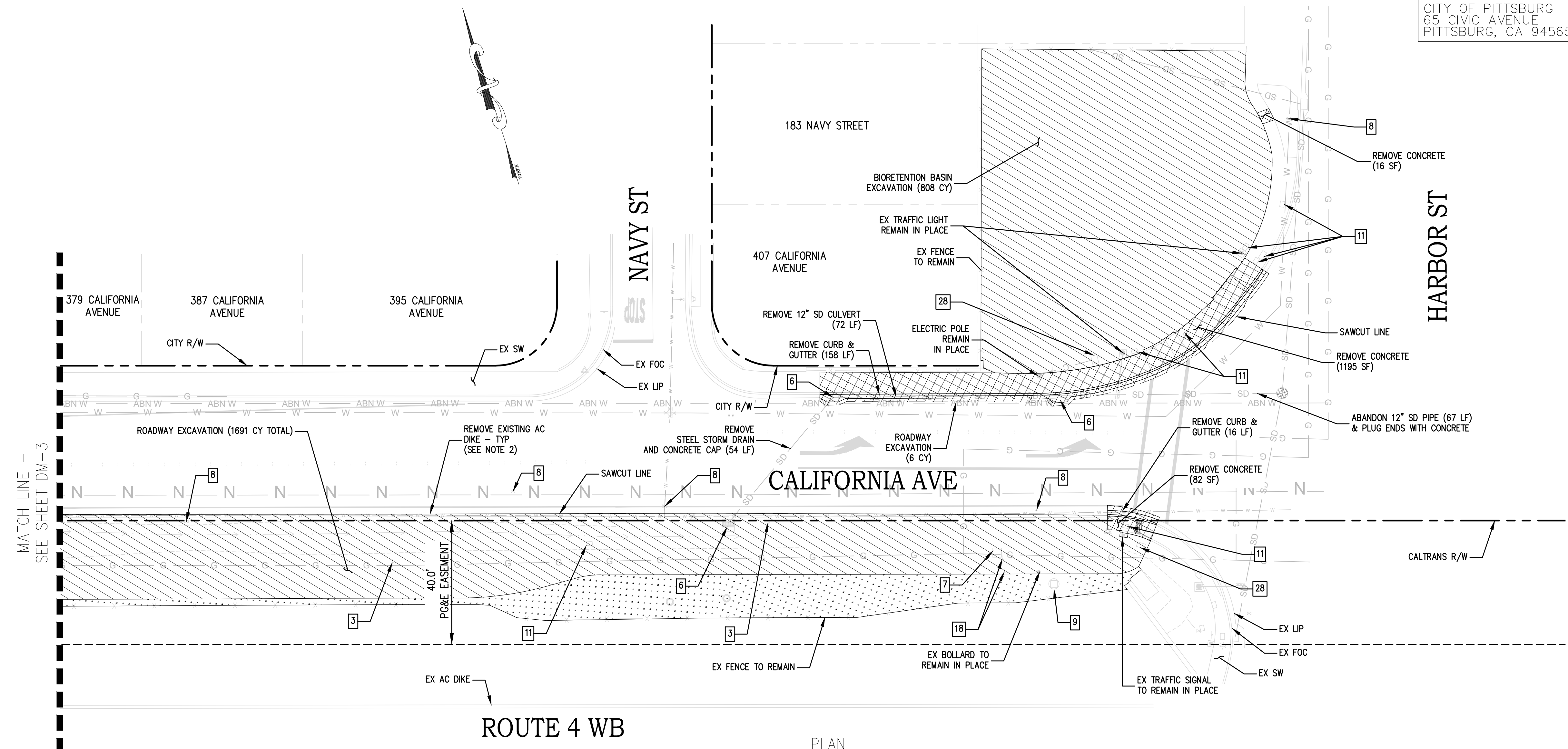


PLANS APPROVAL DATE _____

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CITY OF PITTSBURG
65 CIVIC AVENUE
PITTSBURG, CA 94565

DESIGNED BY	DANYE JOHNSON
CHECKED BY	JOHN SAMUELSON
DATE	1/9/2024
REVISION	1/9/2024
FUNCTIONAL SUPERVISOR	
DEPARTMENT OF TRANSPORTATION	

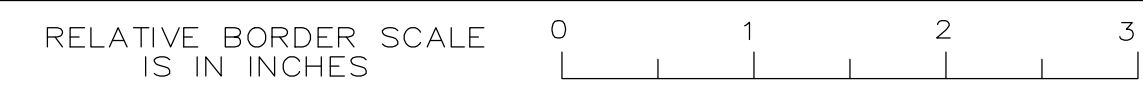


LEGEND: (DEMOLITION PLAN ONLY)

- X REMOVE TREE
- ~~~~~ REMOVE TRAFFIC STRIPING, PAVEMENT MARKER, OR PAVEMENT MARKING
- [Cross-hatched] REMOVE CONCRETE (INCLUDES SIDEWALK, CURB RAMPS, DRIVEWAYS, CURB, AND GUTTER)
- [Diagonal hatched] ROADWAY EXCAVATION
- [Dotted] CLEARING AND GRUBBING

DEMOLITION PLAN TABLE	
3	REMOVE ROADSIDE SIGN
5	RELOCATE ROADSIDE SIGN (NOTE 1)
6	REMOVE DRAINAGE INLET
7	EX GAS VALVE COVER (PG&E) (NOTE 1)
8	EX CITY WATER VALVE COVER (NOTE 1)
9	EX ELECTRICAL TOWER (REMAIN IN PLACE)
11	EX TRAFFIC SIGNAL BOX (NOTE 1)
28	EX TELECOM BOX (COMCAST) (NOTE 1)

PLAN SCALE 1"=20'



BORDER LAST REVISED 8/1/2010

USERNAME => FRANCISCO
DWG FILE => 6_bpbcc_demo.dwg

UNIT PROJECT NUMBER & PHASE 0421000238 EA 2W580

CALIFORNIA AVE DEMOLITION PLAN DM-4

LAST REVISION 1/9/24 DATE PLOTTED => 1/9/24 TIME PLOTTED =>

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR
 DESIGNED BY
 CHECKED BY
 RANDELL HARRISON
 RANDELL HARRISON
 DATE
 01/17/2023
 01/17/2023
 REVISED BY
 DATE REVISED

- NOTES:**
- SEE LAYOUT PLAN (SHEETS L-5 TO L-6) FOR UTILITY ADJUSTMENTS AND ROADSIDE SIGN RELOCATIONS.
 - ALL IRRIGATION LINES AND SPRAY HEADS ENCOUNTERED WITHIN THE GRADING PLANE OF THE WORK SHALL BE RECONFIGURED TO IRRIGATE REMAINING PLANTS.
 - REMOVE AC DIKE SHALL BE INCLUDED UNDER ROADWAY EXCAVATION.
 - SEE SHEET L-5 AND L-6 FOR MODIFICATIONS TO EXISTING DRAINAGE INLETS.

DEMOLITION PLAN TABLE	
1	REMOVE TREE
11	EX TRAFFIC SIGNAL BOX (NOTE 1)
13	ADJUST IRRIG. PB TO GRADE (NOTE 1)
17	EX TREE (REMAIN IN PLACE)
21	IRRIG. PB TO REMAIN
23	EX RAMP METERING BOX (CALTRANS) (NOTE 1)

LEGEND: (DEMOLITION PLAN ONLY)

- REMOVE TREE
- CLEARING AND GRUBBING
- REMOVE CONCRETE (INCLUDES SIDEWALK, CURB RAMPS, DRIVEWAYS, CURB, AND GUTTER)
- ROADWAY EXCAVATION

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	10	79

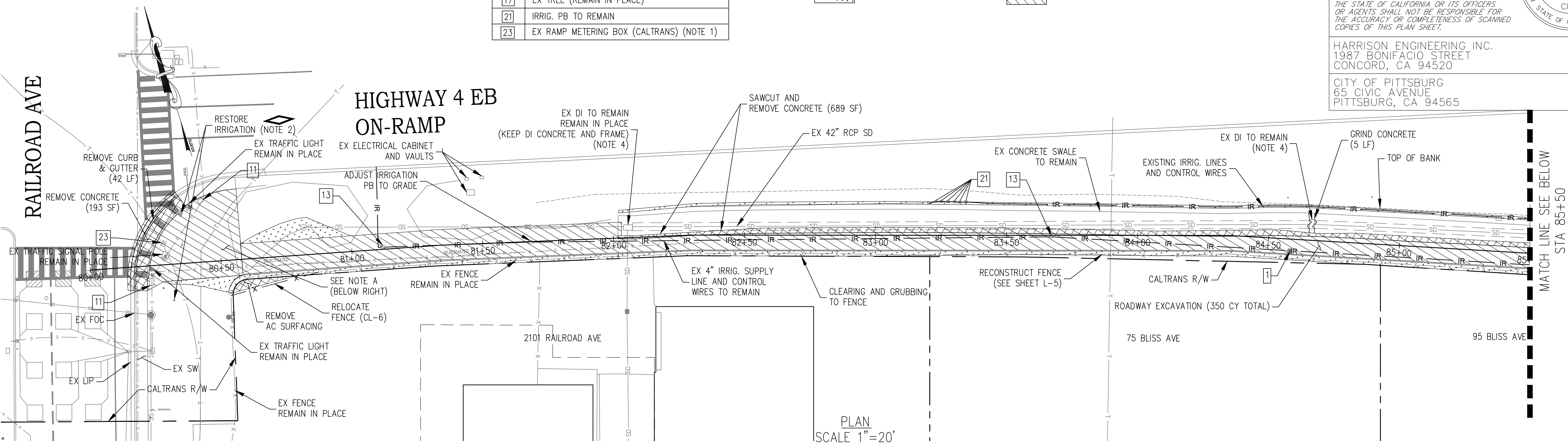
REGISTERED CIVIL ENGINEER
 RANDELL T. HARRISON
 No. C46646
 Exp. 06/30/2023
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE
 01-17-23
 DATE

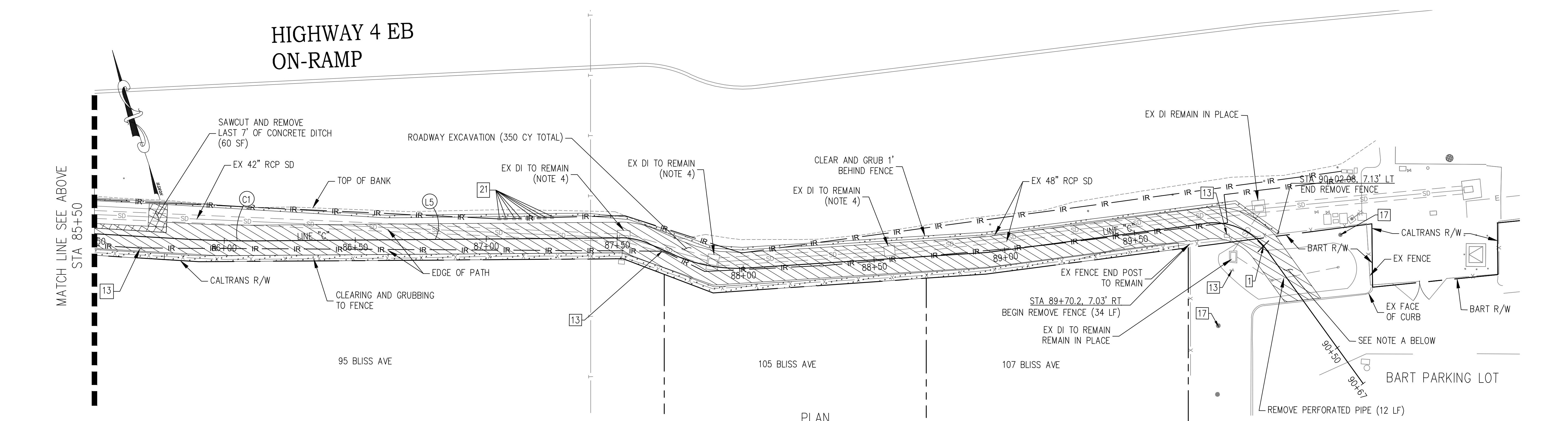
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HARRISON ENGINEERING INC.
 1987 BONIFACIO STREET
 CONCORD, CA 94520

CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



PLAN
 SCALE 1"=20'



PLAN
 SCALE 1"=20'

- NOTES (THIS SHEET ONLY):**
- CONTRACTOR SHALL RESTORE IRRIGATION SYSTEM SUCH THAT BOTH SIDES OF PATH HAVE FUNCTIONAL SYSTEMS. CONTRACTOR TO COORDINATE WITH BART MAINTENANCE FOR PRECONSTRUCTION AND POST CONSTRUCTION WALKTHROUGH (FOR IRRIGATION).

**BLISS AVE DEMOLITION PLAN
 DM-5**

DATE PLOTTED =>
 01-17-23
 TIME PLOTTED =>

NOTES:
 1. SEE LAYOUT PLAN (SHEETS L-1 TO L-9) FOR UTILITY ADJUSTMENTS AND ROADSIDE SIGN RELOCATIONS.
 2. ALL IRRIGATION LINES UNDER THE PATH SHALL BE REMOVED. SEE IRRIGATION PLANS FOR DETAILS NOT SHOWN.

LEGEND: (DEMOLITION PLAN ONLY)

- REMOVE TREE
- CLEARING AND GRUBBING
- REMOVE CONCRETE (INCLUDES SIDEWALK, CURB RAMPS, DRIVEWAYS, CURB, AND GUTTER)
- REMOVE TRAFFIC STRIPING, PAVEMENT MARKER, OR PAVEMENT MARKING
- CLEARING AND GRUBBING (ADDITIVE BID B)
- ROADWAY EXCAVATION

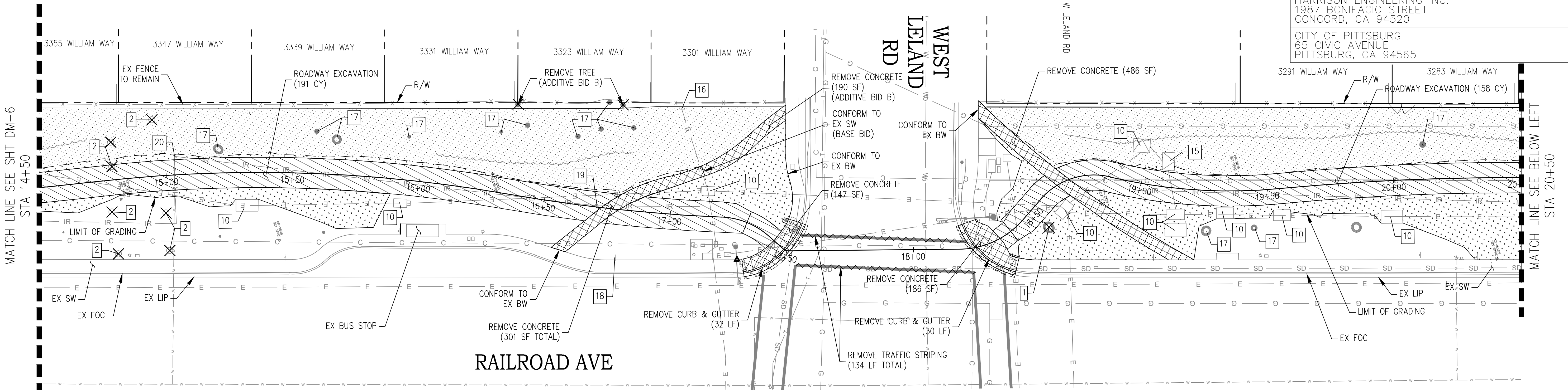
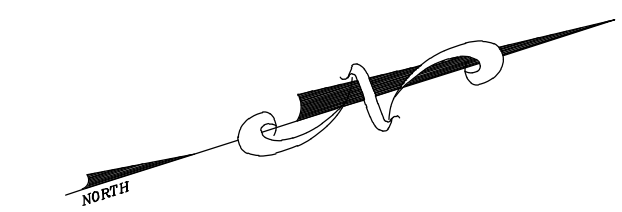
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	12	79

REGISTERED CIVIL ENGINEER
 DATE 01-17-23
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 RANDALL T. HARRISON
 No. C46646
 Exp. 06/30/2023
 CIVIL
 STATE OF CALIFORNIA

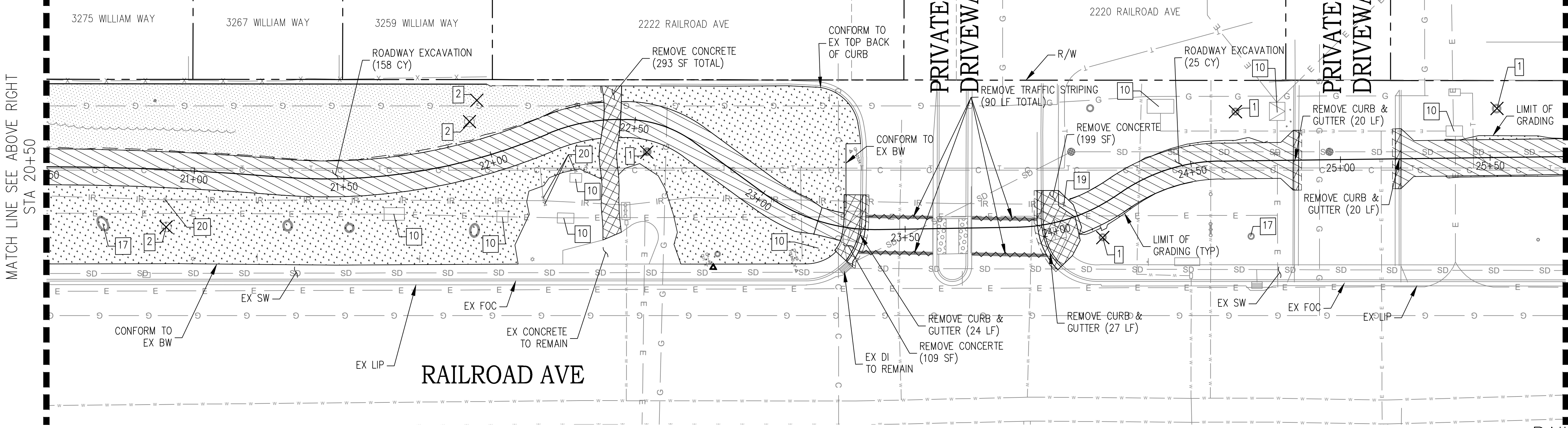
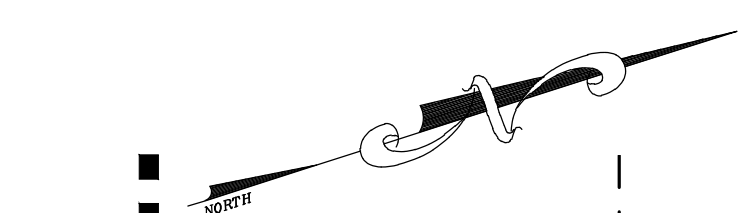
HARRISON ENGINEERING INC.
 1987 BONIFACIO STREET
 CONCORD, CA 94520

CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



PLAN SCALE 1"=20'

1	REMOVE TREE
2	REMOVE TREE STUMP
10	EX ELECTRICAL VAULT (REMAIN IN PLACE)
15	EX ELECTRICAL TRANSFORMER (REMAIN IN PLACE)
16	EX ELECTRICAL PANEL (REMAIN IN PLACE)
17	EX TREE (REMAIN IN PLACE)
18	EX SIGN TO REMAIN (PG&E)
19	REMOVE IRRIGATION CONTROL VALVE (NOTE 2)
20	EX IRRIGATION VALVE COVER TO REMAIN



PLAN SCALE 1"=20'

RAILROAD AVE DEMOLITION PLAN DM-7

DESIGNED BY: RANDALL HARRISON
 CHECKED BY: RANDALL HARRISON
 REVISIONS:
 DATE: 01/17/2023
 REVISION: 01/17/2023
 FUNCTIONAL SUPERVISOR: [Blank]
 DEPARTMENT OF TRANSPORTATION: [Blank]
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DATE PLOTTED => 01-17-23
 TIME PLOTTED => [Blank]

- NOTES:
- SEE LAYOUT PLAN (SHEETS L-1 TO L-9) FOR UTILITY ADJUSTMENTS AND ROADSIDE SIGN RELOCATIONS.
 - ALL IRRIGATION LINES UNDER THE PATH SHALL BE REMOVED. SEE IRRIGATION PLANS FOR DETAILS NOT SHOWN.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	13	79

REGISTERED CIVIL ENGINEER
 DATE 01-17-23
 RANDALL T. HARRISON
 No. C46646
 Exp. 06/30/2023
 CIVIL
 STATE OF CALIFORNIA

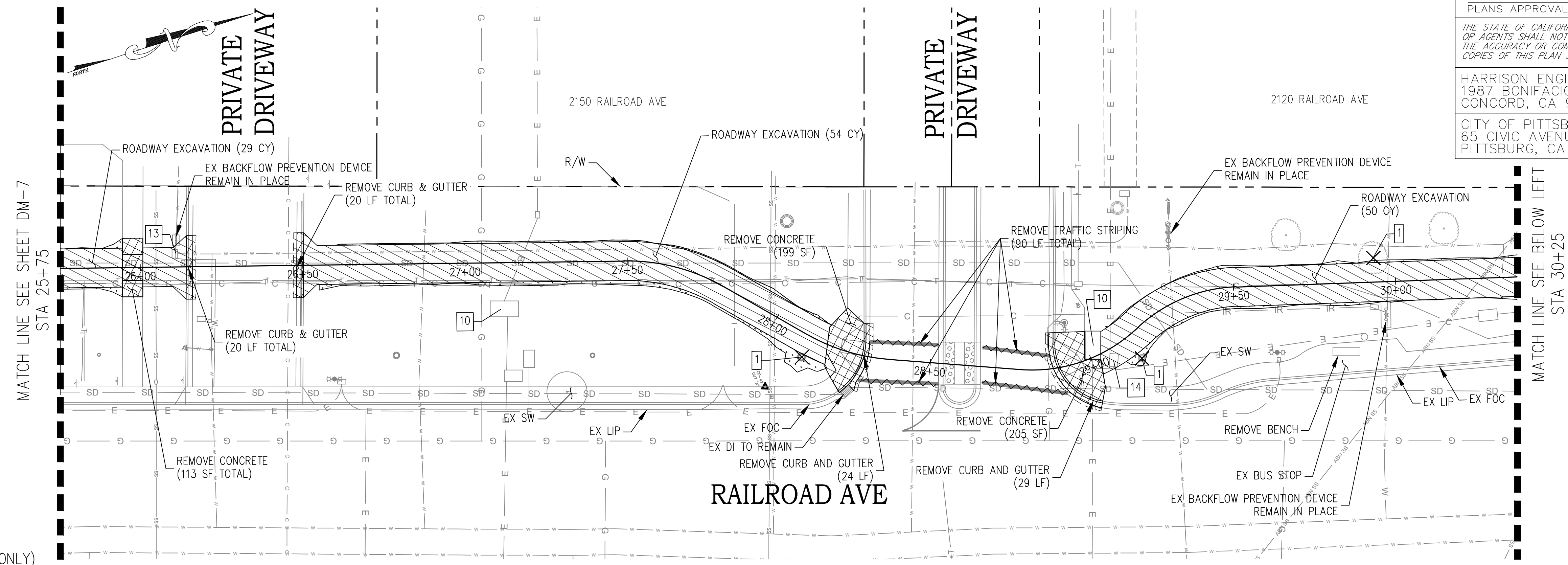
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

HARRISON ENGINEERING INC.
 1987 BONIFACIO STREET
 CONCORD, CA 94520

CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565

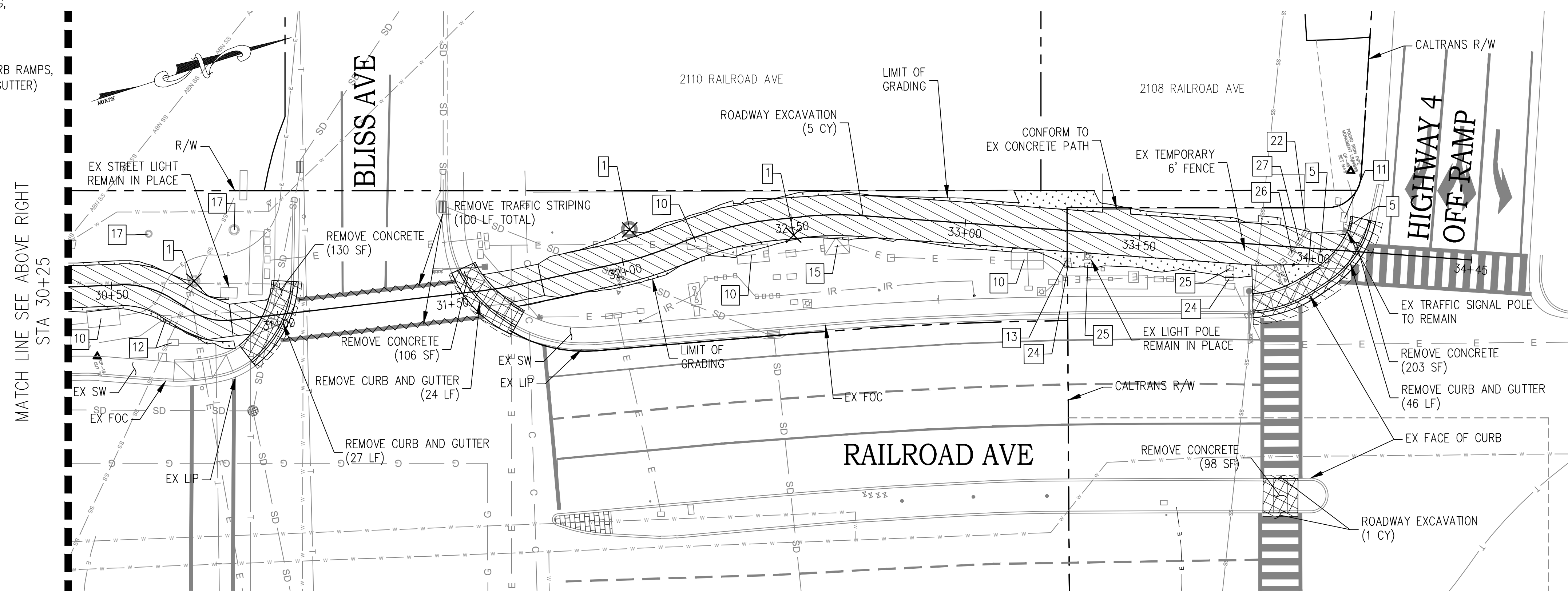
DESIGNED BY: RANDALL HARRISON
 CHECKED BY: RANDALL HARRISON
 REVISIONS:
 DATE: 01/17/2023
 REVISION: 01/17/2023



PLAN SCALE 1"=20'

LEGEND: (DEMOLITION PLAN ONLY)

- REMOVE TREE
- REMOVE TRAFFIC STRIPING, PAVEMENT MARKER, OR PAVEMENT MARKING
- REMOVE CONCRETE (INCLUDES SIDEWALK, CURB RAMPS, DRIVEWAYS, CURB, AND GUTTER)
- ROADWAY EXCAVATION
- CLEARING AND GRUBBING
- CLEARING AND GRUBBING (ADDITIVE BID B)



PLAN SCALE 1"=20'

DEMOLITION PLAN TABLE	
1	REMOVE TREE
5	RELOCATE ROADSIDE SIGN (NOTE 1)
10	EX ELECTRICAL VAULT (REMAIN IN PLACE)
11	EX TRAFFIC SIGNAL BOX (NOTE 1)
12	EX TELECOM BOX (AT&T) (NOTE 1)
13	EX CITY WATER METER (NOTE 1)
14	EX ELECTRICAL BOX (PG&E) (NOTE 1)
15	EX ELECTRICAL TRANSFORMER (REMAIN IN PLACE)
17	EX TREE (REMAIN IN PLACE)
22	EX CITY STREET LIGHTING BOX (NOTE 1)
24	EX TRAFFIC OPERATIONS SYSTEM BOX (CALTRANS) (NOTE 1)
25	EX STREET LIGHTING BOX (CALTRANS) (NOTE 1)
26	EX SIGNAL INTERCONNECT BOX (CALTRANS) (NOTE 1)
27	EX CITY INTERCONNECT BOX (CALTRANS) (NOTE 1)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR
 DESIGNED BY DANYE JOHNSON
 CHECKED BY JOHN SAMUELSON
 REVISED BY
 DATE 1/9/2024
 DATE 1/9/2024

- NOTES:
- SEE TYPICAL SECTIONS FOR PATHWAY AND ROADWAY STRUCTURAL SECTIONS.
 - SEE DRAINAGE PLANS FOR DRAINAGE INLET, MH AND SD PIPE INVERT ELEVATIONS.
 - SEE SHT C-6 FOR GRATED LINE DRAIN TO DRAINAGE INLET CONNECTION DETAIL.
 - SEE SHEETS PD-1 AND PD-2 FOR PROPOSED STRIPING AND SIGNAGE.
 - NO WORK SHALL BE PERFORMED ON CALIFORNIA AVENUE BETWEEN STATION 50+50 TO 53+50 UNTIL THE WORK BETWEEN 53+50 TO 56+50 IS COMPLETED, IN ORDER TO PROVIDE TEMPORARY DEDICATED PARKING FOR BART STAFF VEHICLES. PARKING FOR BART VEHICLES FOR A LENGTH OF 200 FEET SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION ON EASTBOUND CALIFORNIA AVENUE NEAR RAILROAD AVENUE. SIGNAGE SHALL BE RELOCATED AS NECESSARY TO ACCOMMODATE THE PARKING RESTRICTIONS FOR BART VEHICLES ONLY. A TEMPORARY ADA ACCESSIBLE PATH OF TRAVEL, CAPABLE OF SUPPORTING A 1000 POUND CART, SHALL BE PROVIDED BETWEEN THE TEMPORARY PARKING SPACE TO THE BART STATION.

CONTROL POINTS - CALIFORNIA AVE					
DESIGNATION	STA, OFFSET (LINE "A")	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)	DESCRIPTION
CP-2	53+74.9, 39.9' RT	2195769.2470	6161817.3020	72.06	SET SPK
CP-4	59+69.7, 11.2' LT	2195637.0960	6162399.5090	68.98	SET M+S
CP-5	59+80.6, 29.9' RT	2195594.6980	6162397.4110	69.10	SET SPK
CP-7	63+37.9, 19.1' LT	2195532.7010	6162752.6760	68.76	CUT X
CP-6	64+67.3, 30.4' RT	2195446.3400	6162861.0190	68.45	SET SPK
CP-8	67+19.6, 23.5' LT	2195420.9511	6163117.6650	67.56	CUT X
CP-9	67+54.8, 24.2' RT	2195364.9000	6163136.7530	68.83	SET SPK
CP-1	68+88.5, 28.5' RT	2195320.1650	6163262.8579	71.12	SET SPK

CALIFORNIA AVE PATH HORIZONTAL ALIGNMENT (LINE "A")			
SEGMENT NO.	START STATION	BEARING	DISTANCE (FT)
L1	50+00	S72°18'15.69"E	2000.00

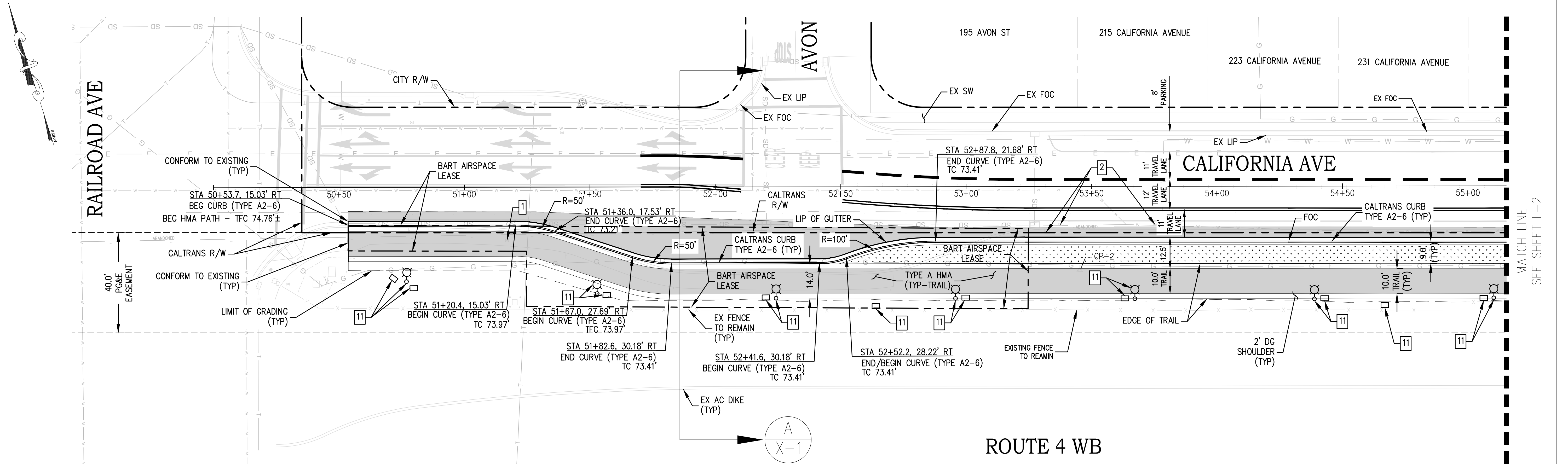
POTHOLE DATA			
#	UTILITY TYPE	DIAMETER (IN)	DEPTH (IN)
1	WATER	12	51
A1	GAS	24	75

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	14	79

JOHN SAMUELSON, CITY ENGINEER, CE 67734 DATE _____
 PLANS APPROVAL DATE _____
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



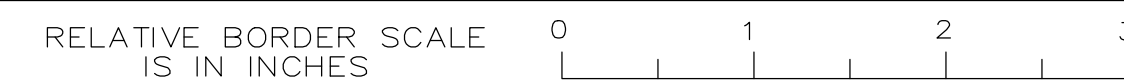
CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



LAYOUT PLAN AND UTILITY ADJUSTMENT TABLE	
1	ADJUST GAS COVER TO GRADE (PG&E) (BY OTHERS)*
2	ADJUST WATER VALVE COVER TO GRADE (CITY OF PITTSBURG)
3	EX WATER VALVE (REMAIN IN PLACE)
4	ADJUST TELECOM BOX COVER TO GRADE (AT&T) (BY OTHERS)*
5	ADJUST ELECTRICAL BOX COVER TO GRADE (PG&E) (BY OTHERS)*
6	RECONSTRUCT TRAFFIC SIGNAL BOX AND COVER (TRAFFIC RATED)
7	EX ELECTRICAL VAULT (PG&E) (CONFORM TO AND REMAIN IN PLACE)
8	ADJUST IRRIG. PB TO GRADE
9	4-INCH IRRIGATION SLEEVE (NOTE 4)
10	6-INCH IRRIGATION SLEEVE (NOTE 4)
11	SEE TRAIL LIGHTING PLANS FOR INFORMATION
12	ADJUST TRAFFIC PULL BOX TO GRADE
13	EX TELECOM BOX COVER (COMCAST) (REMAIN IN PLACE)
14	RELOCATE IRRIGATION VALVE AND COVER
15	ADJUST CITY STREET LIGHTING BOX TO GRADE
16	ADJUST TELECOM BOX COVER TO GRADE (COMCAST) (BY OTHERS)*

* "BY OTHERS" - RELOCATION OR ADJUSTMENT BY UTILITY OWNER.

PLAN
 SCALE 1"=20'



BORDER LAST REVISED 8/1/2010

USERNAME => FRANCISCO
 DWG FILE => 14_bpbc_horz.dwg

UNIT

PROJECT NUMBER & PHASE 042100238

EA 2W580

CALIFORNIA AVE LAYOUT
 L-1

DATE PLOTTED =>
 1/9/24
 TIME PLOTTED =>

- NOTES:
- SEE TYPICAL SECTIONS FOR PATHWAY AND ROADWAY STRUCTURAL SECTIONS.
 - SEE DRAINAGE PLANS FOR DRAINAGE INLET, MH AND SD PIPE INVERT ELEVATIONS.
 - SEE SHT C-6 FOR GRATED LINE DRAIN TO DRAINAGE INLET CONNECTION DETAIL.
 - SEE SHEETS PD-1 AND PD-2 FOR PROPOSED STRIPING AND SIGNAGE.

LAYOUT PLAN AND UTILITY ADJUSTMENT TABLE	
11	SEE TRAIL LIGHTING PLANS FOR INFORMATION

POTHOLE DATA			
#	UTILITY TYPE	DIAMETER (IN)	DEPTH (IN)
2	WATER	12	52
3	WATER	12	51
A3	GAS	24	48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	15	79

JOHN SAMUELSON, CITY ENGINEER, CE 67734 DATE _____

PLANS APPROVAL DATE _____

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



CITY OF PITTSBURG
65 CIVIC AVENUE
PITTSBURG, CA 94565

REVISED BY
DATE

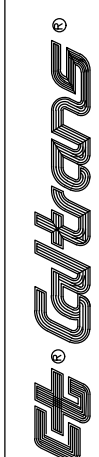
1/9/2024
1/9/2024

DESIGNED BY
DANYE JOHNSON

CHECKED BY
JOHN SAMUELSON

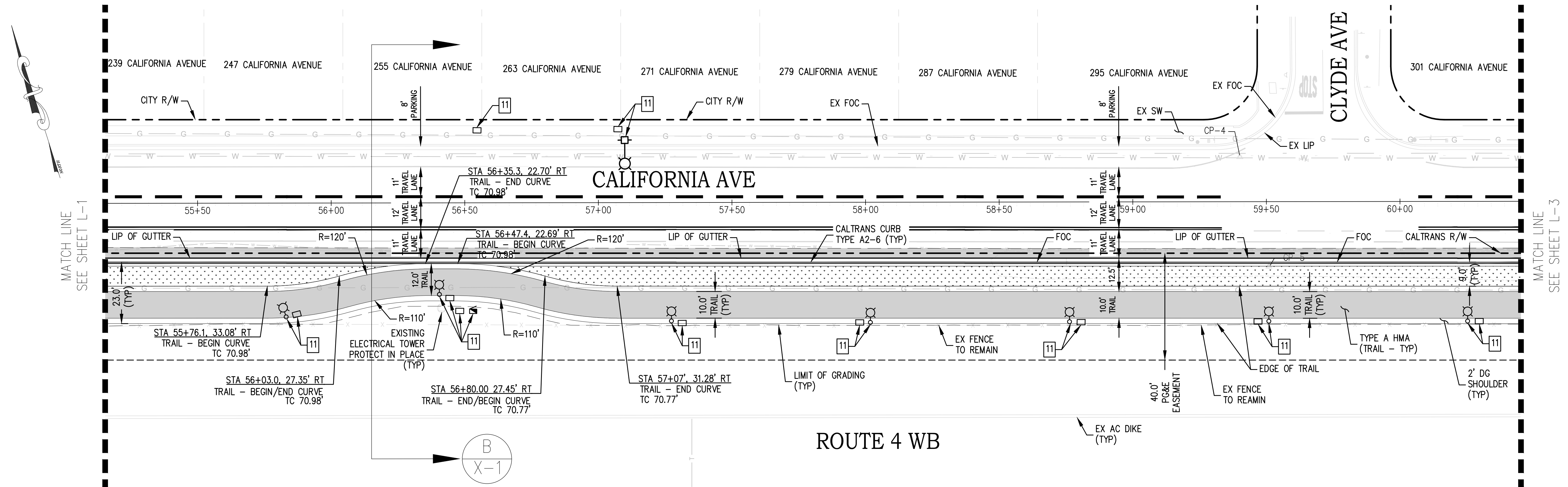
FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



LAYOUT PLAN AND UTILITY ADJUSTMENT TABLE	
1	ADJUST GAS COVER TO GRADE (PG&E) (BY OTHERS)*
2	ADJUST WATER VALVE COVER TO GRADE (CITY OF PITTSBURG)
3	EX WATER VALVE (REMAIN IN PLACE)
4	ADJUST TELECOM BOX COVER TO GRADE (AT&T) (BY OTHERS)*
5	ADJUST ELECTRICAL BOX COVER TO GRADE (PG&E) (BY OTHERS)*
6	RECONSTRUCT TRAFFIC SIGNAL BOX AND COVER (TRAFFIC RATED)
7	EX ELECTRICAL VAULT (PG&E) (CONFORM TO AND REMAIN IN PLACE)
8	ADJUST IRRIG. PB TO GRADE
9	4-INCH IRRIGATION SLEEVE (NOTE 4)
10	6-INCH IRRIGATION SLEEVE (NOTE 4)
11	SEE TRAIL LIGHTING PLANS FOR INFORMATION
12	ADJUST TRAFFIC PULL BOX TO GRADE
13	EX TELECOM BOX COVER (COMCAST) (REMAIN IN PLACE)
14	RELOCATE IRRIGATION VALVE AND COVER
15	ADJUST CITY STREET LIGHTING BOX TO GRADE
16	ADJUST TELECOM BOX COVER TO GRADE (COMCAST) (BY OTHERS)*

* "BY OTHERS" - RELOCATION OR ADJUSTMENT BY UTILITY OWNER.



PLAN
SCALE 1"=20'

- NOTES:
- SEE TYPICAL SECTIONS FOR PATHWAY AND ROADWAY STRUCTURAL SECTIONS.
 - SEE DRAINAGE PLANS FOR DRAINAGE INLET, MH AND SD PIPE INVERT ELEVATIONS.
 - SEE SHT C-6 FOR GRATED LINE DRAIN TO DRAINAGE INLET CONNECTION DETAIL.
 - SEE SHEETS PD-1 AND PD-2 FOR PROPOSED STRIPING AND SIGNAGE.

LAYOUT PLAN AND UTILITY ADJUSTMENT TABLE	
11	SEE TRAIL LIGHTING PLANS FOR INFORMATION

POTHOLE DATA			
#	UTILITY TYPE	DIAMETER (IN)	DEPTH (IN)
4	WATER	12	48
5	NITROGEN	6	40
6	WATER	12	49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	16	79



JOHN SAMUELSON, CITY ENGINEER, CE 67734 DATE _____

PLANS APPROVAL DATE _____

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CITY OF PITTSBURG
65 CIVIC AVENUE
PITTSBURG, CA 94565

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

FUNCTIONAL SUPERVISOR

DESIGNED BY DANYE JOHNSON

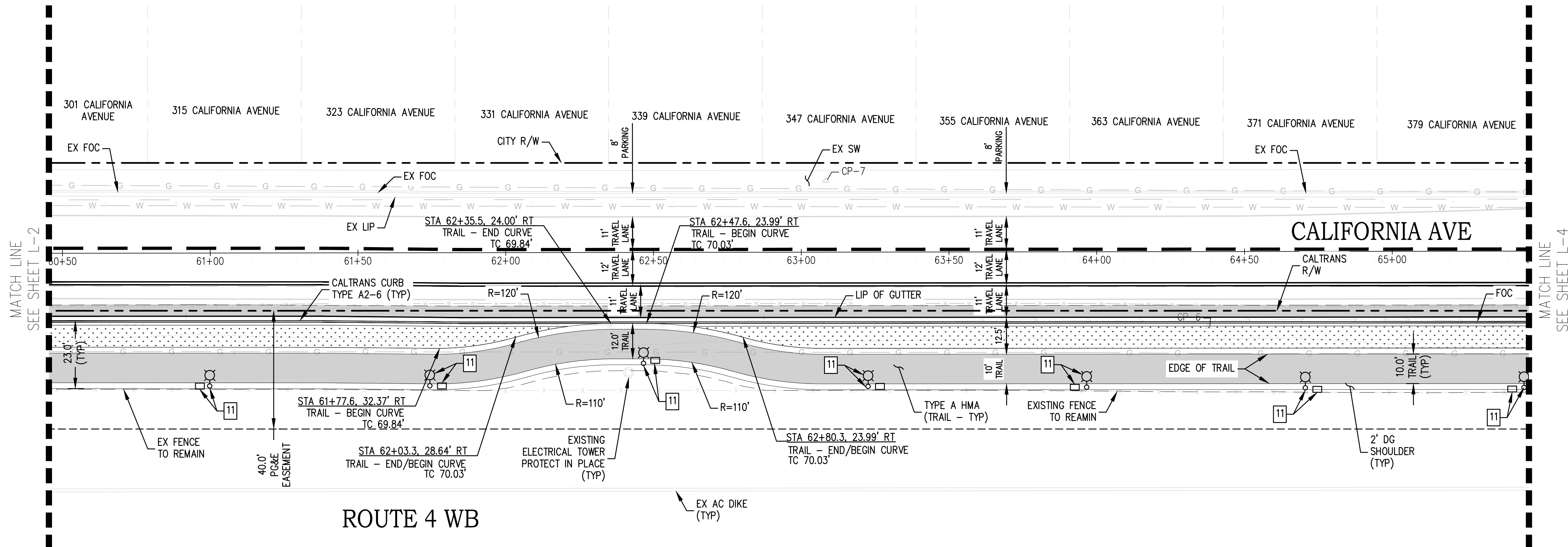
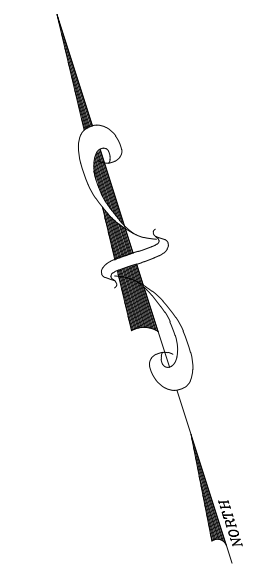
CHECKED BY JOHN SAMUELSON

REVISIONS:

DATE	REVISION
1/9/2024	1/9/2024

REVISED BY DATE

DATE REVISED



ROUTE 4 WB

PLAN
SCALE 1"=20'

LAYOUT PLAN AND UTILITY ADJUSTMENT TABLE	
1	ADJUST GAS COVER TO GRADE (PG&E) (BY OTHERS)*
2	ADJUST WATER VALVE COVER TO GRADE (CITY OF PITTSBURG)
3	EX WATER VALVE (REMAIN IN PLACE)
4	ADJUST TELECOM BOX COVER TO GRADE (AT&T) (BY OTHERS)*
5	ADJUST ELECTRICAL BOX COVER TO GRADE (PG&E) (BY OTHERS)*
6	RECONSTRUCT TRAFFIC SIGNAL BOX AND COVER (TRAFFIC RATED)
7	EX ELECTRICAL VAULT (PG&E) (CONFORM TO AND REMAIN IN PLACE)
8	ADJUST IRRIG. PB TO GRADE
9	4-INCH IRRIGATION SLEEVE (NOTE 4)
10	6-INCH IRRIGATION SLEEVE (NOTE 4)
11	SEE TRAIL LIGHTING PLANS FOR INFORMATION
12	ADJUST TRAFFIC PULL BOX TO GRADE
13	EX TELECOM BOX COVER (COMCAST) (REMAIN IN PLACE)
14	RELOCATE IRRIGATION VALVE AND COVER
15	ADJUST CITY STREET LIGHTING BOX TO GRADE
16	ADJUST TELECOM BOX COVER TO GRADE (COMCAST) (BY OTHERS)*

* "BY OTHERS" - RELOCATION OR ADJUSTMENT BY UTILITY OWNER.

BORDER LAST REVISED 8/1/2010

USERNAME => FRANCISCO
DWG FILE => 14_bpbc_horz.dwg

RELATIVE BORDER SCALE IS IN INCHES

UNIT PROJECT NUMBER & PHASE 0421000238 EA 2W580

CALIFORNIA AVE LAYOUT
L-3

DATE PLOTTED => 1/9/24
TIME PLOTTED =>

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	17	79

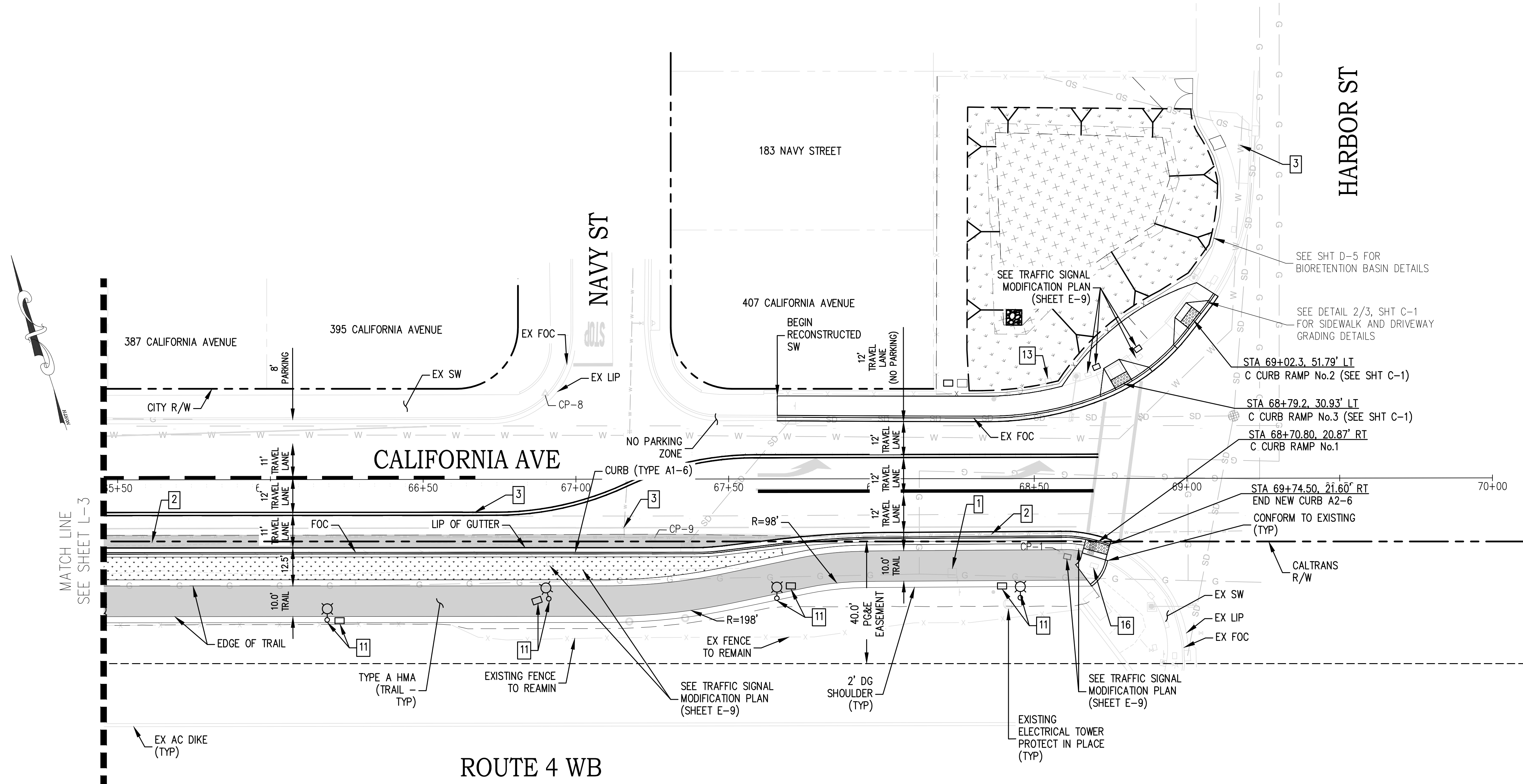
JOHN SAMUELSON, CITY ENGINEER, CE 67734 DATE _____



PLANS APPROVAL DATE _____

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



#	UTILITY TYPE	DIAMETER (IN)	DEPTH (IN)
7	WATER	12	43
8	UNKNOWN*	-	21
9	NITROGEN	6	48
10	WATER*	-	17
A5	GAS	24	48
A6	WATER*	-	22
A7	WATER	12	49

1	ADJUST GAS COVER TO GRADE (PG&E) (BY OTHERS)*
2	ADJUST WATER VALVE COVER TO GRADE (CITY OF PITTSBURG)
3	EX WATER VALVE (CITY OF PITTSBURG) (REMAIN IN PLACE)
6	RECONSTRUCT TRAFFIC SIGNAL BOX AND COVER (TRAFFIC RATED) (NOTE 6)
11	SEE TRAIL LIGHTING PLANS FOR INFORMATION
13	EX TELECOM BOX COVER (COMCAST) (REMAIN IN PLACE)
16	ADJUST TELECOM BOX COVER TO GRADE (COMCAST) (BY OTHERS)*

* "BY OTHERS" - RELOCATION OR ADJUSTMENT BY THE UTILITY OWNER.

NOTES:

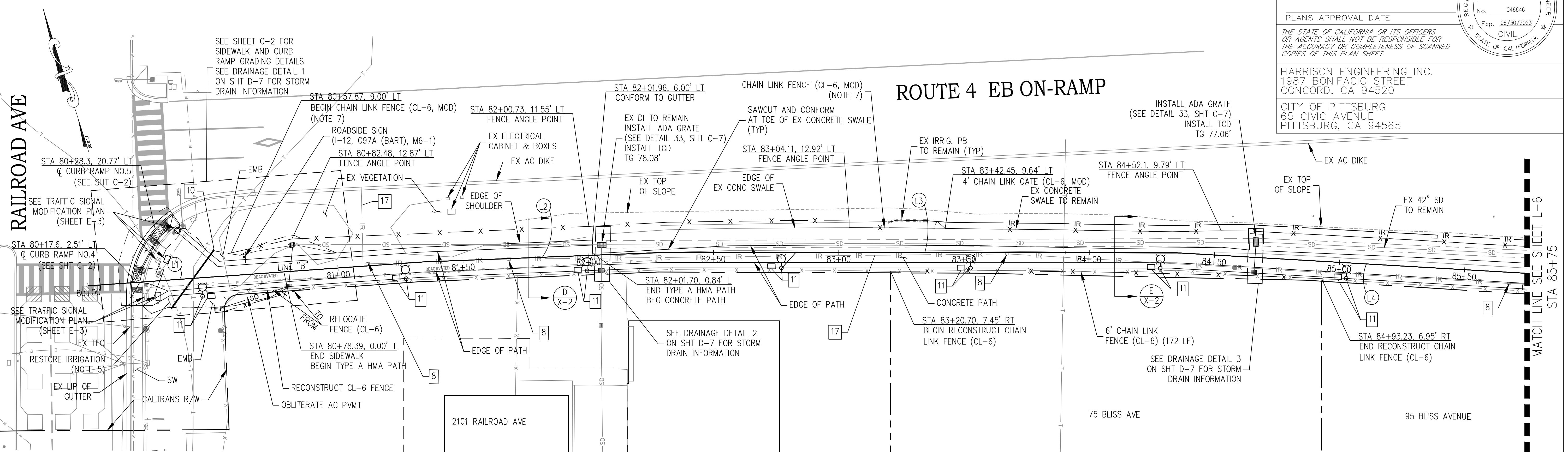
- SEE TYPICAL SECTIONS FOR PATHWAY AND ROADWAY STRUCTURAL SECTIONS.
- SEE DRAINAGE PLANS FOR DRAINAGE INLET, MH AND SD PIPE INVERT ELEVATIONS.
- SEE SHT C-6 FOR GRATED LINE DRAIN TO DRAINAGE INLET CONNECTION DETAIL.
- SEE SHEETS PD-1 AND PD-2 FOR PROPOSED STRIPING AND SIGNAGE.
- TRANSITION GUTTER PAV WIDTH OVER 20" TO STANDARD WIDTH.
- EXISTING SIGNAL, RAMP METERING, AND SAFETY, LIGHTING ELECTRICAL CIRCUITS SHALL REMAIN OPERATIONAL ALL TIMES.



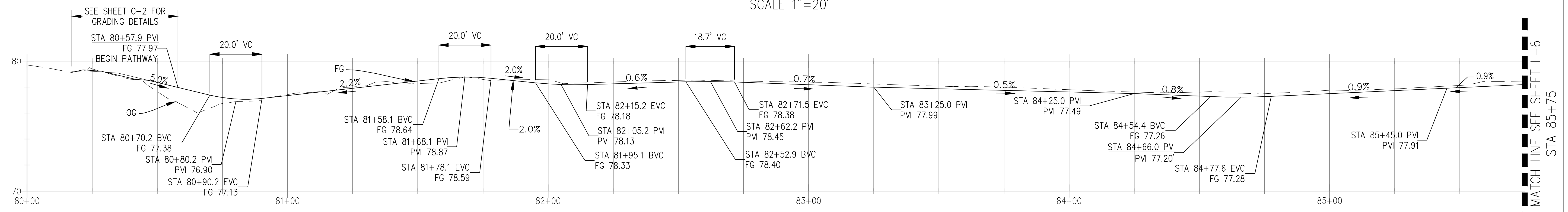
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	18	79

REGISTERED CIVIL ENGINEER
 DATE 01-17-23
 RANDALL T. HARRISON
 No. C46646
 Exp. 06/30/2023
 CIVIL
 STATE OF CALIFORNIA

HARRISON ENGINEERING INC.
 1987 BONIFACIO STREET
 CONCORD, CA 94520
 CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



PLAN SCALE 1"=20'



PROFILE SCALE H: 1"=20' SCALE V: 1"=4'

DESIGNATION	STA, OFFSET (LINE "B")	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)	DESCRIPTION
CP-28	90+66.55, 24.05' LT	2195134.901	6162353.991	78.52	SET M+S
CP-25	90+22.44, 73.27' LT	2195192.159	6162386.989	77.91	SET N+S
LS-4998	90+47.20, 77.45' LT	2195169.9	6162398.711	78.36	MON IP

CURVE No.	START STATION	Δ	LENGTH (FT)	RADIUS (FT)
C1	85+86.75 (BC)	03°48'36"	23.30	350.00
C2	87+51.15 (BC)	24°07'48"	11.37	27.00
C3	87+73.13 (BC)	27°25'12"	28.72	60.00
C4	89+77.10 (BC)	61°40'12"	26.91	25.00

SEGMENT NO.	START STATION	BEARING	DISTANCE (FT)
L1	80+00	S76°22'08"E	133.72
L2	81+33.72 (ANG. PT)	S74°36'25"E	96.00
L3	82+29.72 (ANG. PT)	S72°16'03"E	205.18
L4	84+34.91 (ANG. PT)	S68°56'13"E	151.85
L5	86+10.05 (EC)	S72°45'06"E	141.10
L6	87+62.53 (EC)	S48°37'01"E	10.60
L7	88+01.85 (EC)	S76°02'30"E	91.44
L8	88+93.29 (ANG. PT)	S79°50'49"E	83.82
L9	90+04.01 (EC)	S18°10'29"E	62.90

[8]	ADJUST IRRIG. PB TO GRADE
[10]	6-INCH IRRIGATION SLEEVE (NOTE 5)
[11]	SEE TRAIL LIGHTING PLANS FOR INFORMATION
[17]	EX 4-INCH IRRIGATION SUPPLY LINE AND CONTROL WIRE (REMAIN-IN-PLACE) (SEE NOTE 8)
[18]	EX 3-INCH IRRIGATION SUPPLY LINE AND CONTROL WIRE (REMAIN-IN-PLACE) (SEE NOTE 8)

- NOTES:
- SEE TYPICAL SECTIONS FOR PATHWAY AND ROADWAY SECTION STRUCTURAL SECTIONS.
 - SEE DRAINAGE PLANS FOR DRAINAGE INLET, MH AND SD PIPE INVERT ELEVATIONS.
 - (NOT USED)
 - (NOT USED)
 - CONTRACTOR SHALL RESTORE IRRIGATION SYSTEM, SUCH THAT BOTH SIDES OF PATH HAVE FUNCTIONAL SYSTEMS.
 - ALL GRATES SHALL BE BICYCLE PROOF UNLESS NOTED OTHERWISE.
 - CHAIN LINK FENCE AND GATE (CL-6, MOD) SHALL CONFORM TO STATE STANDARDS FOR TYPE CL-6 FENCE AND GATE, EXCEPT FENCE FABRIC SHALL BE 1-INCH MESH. SEE NOTE 8.
 - IRRIGATION LINE AND CONDUCTORS [17] AND [18] ARE SHALLOW AND SHALL BE POTHOLED. HAND DIGGING REQUIRED FOR PLACEMENT OF IMPROVEMENTS, INCLUDING FENCE POSTS.

BLISS AVE LAYOUT L-5

DESIGNED BY: RANDALL HARRISON
 CHECKED BY: RANDALL HARRISON
 DATE: 01/17/2023
 REVISIONS: 01/17/2023
 DEPARTMENT OF TRANSPORTATION
 STATE OF CALIFORNIA
 FUNCTIONAL SUPERVISOR

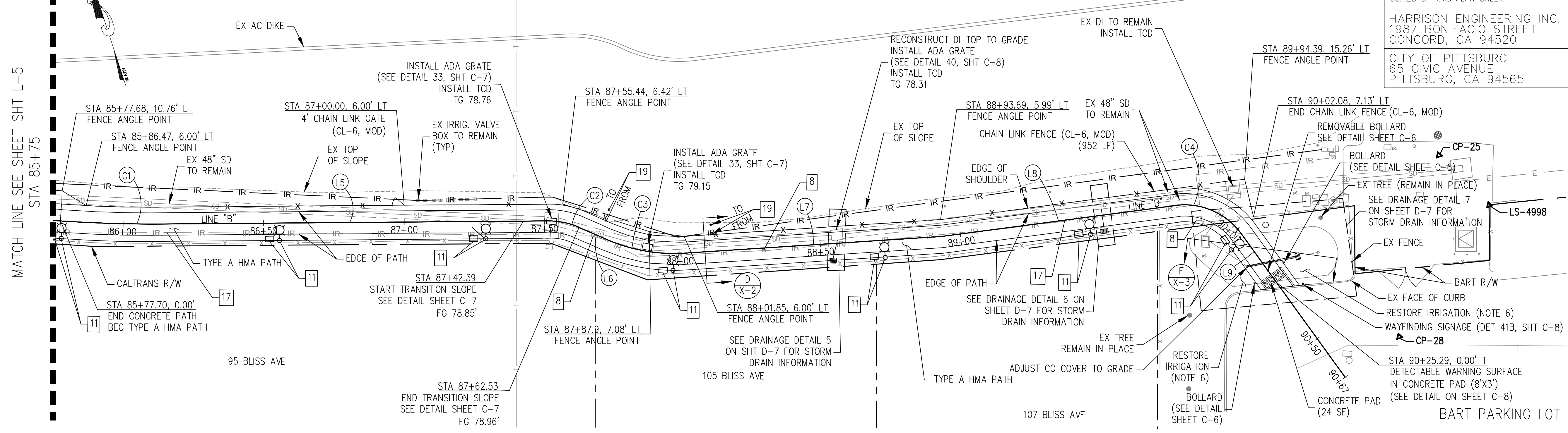


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	19	79

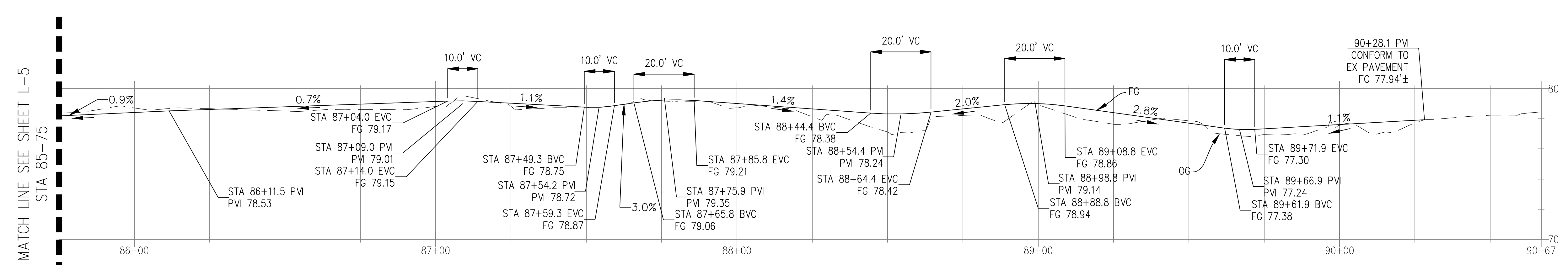
REGISTERED CIVIL ENGINEER
 DATE 01-17-23
 RANDALL T. HARRISON
 No. C46646
 Exp. 06/30/2023
 CIVIL
 STATE OF CALIFORNIA

HARRISON ENGINEERING INC.
 1987 BONIFACIO STREET
 CONCORD, CA 94520
 CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565

ROUTE 4 EB ON-RAMP

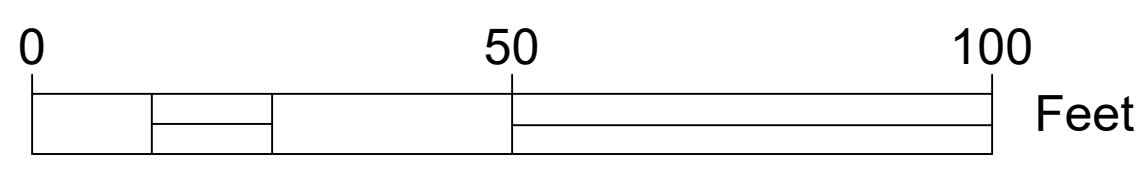


PLAN SCALE 1"=20'



PROFILE SCALE H: 1"=20' SCALE V: 1"=4'

[8]	ADJUST IRRIG. PB TO GRADE
[11]	SEE TRAIL LIGHTING PLANS FOR INFORMATION
[17]	EX 4-INCH IRRIGATION SUPPLY LINE AND CONTROL WIRE (REMAIN-IN-PLACE) (SEE NOTE 9)
[18]	EX 3-INCH IRRIGATION SUPPLY LINE AND CONTROL WIRE (REMAIN-IN-PLACE) (SEE NOTE 9)
[19]	RELOCATE IRRIGATION SPRINKLER



- NOTES:
- SEE TYPICAL SECTIONS FOR PATHWAY AND ROADWAY SECTION STRUCTURAL SECTIONS.
 - SEE DRAINAGE PLANS FOR DRAINAGE INLET, MH AND SD PIPE INVERT ELEVATIONS.
 - (NOT USED)
 - SEE TRAIL LIGHTING PLANS FOR LIGHTING LAYOUT AND DETAILS.
 - MATCH EXISTING PERFORATED PIPE SIZE.
 - CONTRACTOR TO RESTORE IRRIGATION SYSTEM SUCH THAT BOTH SIDES OF PATH HAVE FUNCTIONAL SYSTEMS. CONTRACTOR TO PROVIDE IRRIGATION AS-BUILT FOR RENOVATION. CONTRACTOR TO COORDINATE WITH BART MAINTENANCE FOR PRECONSTRUCTION AND POST CONSTRUCTION WALKTHROUGH.
 - ALL GRATES SHALL BE BICYCLE PROOF UNLESS NOTED OTHERWISE.
 - CHAIN LINK FENCE AND GATE (CL-6, MOD) SHALL CONFORM TO STATE STANDARDS FOR TYPE CL-6 FENCE AND GATE, EXCEPT FENCE FABRIC SHALL BE 1-INCH MESH.
 - IRRIGATION LINE AND CONDUCTORS [17] AND [18] ARE SHALLOW AND SHALL BE POTHOLED. HAND DIGGING REQUIRED FOR PLACEMENT OF IMPROVEMENTS, INCLUDING FENCE POSTS.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 RANDALL HARRISON
 DESIGNED BY
 CHECKED BY
 FUNCTIONAL SUPERVISOR
 DATE 01/17/2023
 REVISIONS: 01/17/2023



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 REVISIONS: REVISED BY: RANDALL HARRISON, DATE: 01/17/2023; CHECKED BY: RANDALL HARRISON, DATE: 01/17/2023; DESIGNED BY: RANDALL HARRISON, DATE: 01/17/2023; FUNCTIONAL SUPERVISOR: RANDALL HARRISON, DATE: 01/17/2023

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	20	79

REGISTERED CIVIL ENGINEER: RANDALL T. HARRISON, No. C46646, Exp. 06/30/2023, CIVIL, STATE OF CALIFORNIA

PLANS APPROVAL DATE: 01-17-23

HARRISON ENGINEERING INC.
 1987 BONIFACIO STREET
 CONCORD, CA 94520

CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565

DESIGNATION	STA, OFFSET (LINE "A")	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)	DESCRIPTION
CP-19	30+45.2, 20.2' RT	2195191.9180	6161189.5940	80.89	CUT X
CP-45	34+09.0, 22.9' LT	2195549.8760	6161248.0410	79.07	N+S
CP-46	23+00.8, 29.9' RT	2194480.4863	6160978.1188	88.38	CUT X
CP-47	28+07.4, 20.4' RT	2194958.8840	6161130.0752	83.71	CUT X
CP-48	17+34.3, 14.9' RT	2193973.6244	6160815.1322	96.89	CUT X
CP-2541	10+31.2, 73.2' RT	2193274.2449	6160591.9392	107.40	CUT X

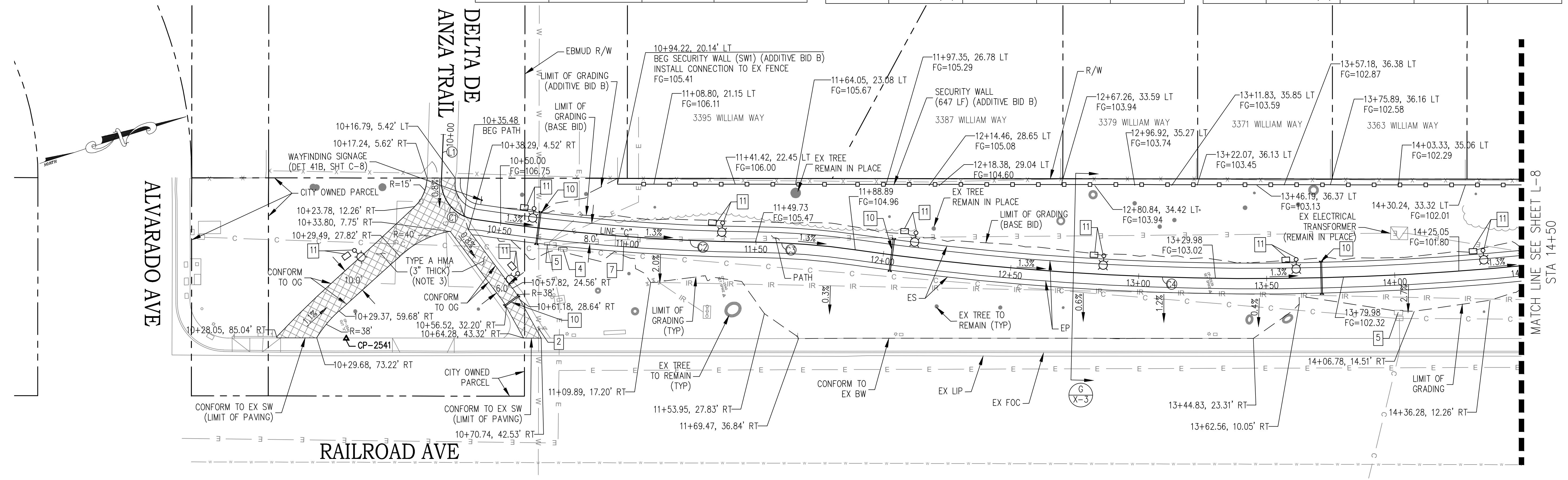
LINE	START STATION	BEARING	DISTANCE (FT)
L1	10+00.00	S69°54'33"E	17.57
L2	17+40.81 (EC)	N59°12'21"E	7.67
L3	17+50.68 (EC)	N17°05'58"E	67.75
L4	18+46.29 (EC)	N31°16'50"W	10.97
L5	22+44.19 (EC)	N17°37'02"E	2.41
L6	22+71.35 (EC)	N53°58'35"E	28.71
L7	23+41.06 (EC)	N16°40'50"E	46.47
L8	24+21.68 (EC)	N15°55'12"W	3.70
L9	24+59.79 (EC)	N16°56'38"E	289.34
L10	27+81.09 (EC)	N47°27'59"E	29.44
L11	28+37.08 (EC)	N22°06'52"E	40.80
L12	29+16.25 (EC)	N24°39'14"W	1.59
L13	29+50.87 (EC)	N15°37'16"E	101.66
L14	30+67.84 (EC)	N49°22'04"E	7.23
L15	30+86.45 (EC)	N11°01'07"E	72.52
L16	31+68.23 (EC)	N05°42'40"E	28.74
L17	32+15.16 (EC)	N04°42'19"W	1.36
L18	32+45.18 (EC)	N11°42'51"E	7.80
L19	32+70.64 (EC)	N21°50'04"E	174.61

CURVE No.	START STATION	Δ	DISTANCE (FT)	RADIUS (FT)
C1	10+17.57 (BC)	83°39'00"	21.90	15.00
C2	10+39.46 (PCC)	08°10'48"	110.26	72.00
C3	11+49.73 (PRC)	07°39'36"	39.16	293.00
C4	11+88.89 (PRC)	14°51'00"	282.48	1090.00
C5	14+71.37 (PRC)	16°32'24"	163.08	565.00
C6	16+34.46 (PRC)	07°27'36"	85.90	660.00
C7	17+20.36 (PRC)	39°03'00"	20.45	30.00
C8	17+48.48 (BC)	42°06'36"	2.21	3.00
C9	18+18.43 (BC)	48°22'48"	27.87	33.00
C10	18+57.26 (BC)	62°18'00"	30.44	28.00
C11	18+87.70 (PRC)	18°46'12"	66.81	204.00
C12	19+54.52 (PRC)	10°15'00"	173.95	972.00
C13	21+28.47 (PRC)	27°48'36"	91.72	189.00
C14	22+20.19 (PRC)	22°55'12"	24.00	60.00
C15	22+46.60 (BC)	36°21'36"	24.75	39.00
C16	23+00.06 (BC)	37°18'00"	41.00	63.00
C17	23+87.54 (BC)	32°36'00"	34.14	60.00
C18	24+25.38 (BC)	32°51'36"	34.42	60.00
C19	27+49.13 (BC)	30°31'12"	31.96	60.00

CURVE No.	START STATION	Δ	DISTANCE (FT)	RADIUS (FT)
C20	28+10.53 (BC)	25°21'00"	26.55	60.00
C21	28+77.88 (BC)	46°46'12"	38.36	47.00
C22	29+17.84 (BC)	40°16'12"	33.04	47.00
C23	30+52.53 (BC)	33°45'00"	15.31	26.00
C24	30+75.08 (BC)	38°21'00"	11.38	17.00
C25	31+58.97 (BC)	5°18'36"	9.26	100.00
C26	31+96.98 (BC)	10°25'12"	18.18	100.00
C27	32+16.52 (BC)	16°25'12"	28.66	100.00
C28	32+52.98 (BC)	10°07'12"	17.66	100.00

2	ADJUST WATER VALVE COVER TO GRADE (CITY OF PITTSBURG)
4	ADJUST TELECOM BOX COVER TO GRADE (AT&T) (BY OTHERS)*
5	ADJUST ELECTRICAL BOX COVER TO GRADE (PG&E) (BY OTHERS)*
7	EX ELECTRICAL VAULT (PG&E) (CONFORM TO AND REMAIN IN PLACE)
10	6-INCH IRRIGATION SLEEVE (SEE IRRIGATION PLAN)
11	SEE TRAIL LIGHTING PLANS FOR INFORMATION

* "BY OTHERS" - RELOCATION OR ADJUSTMENT BY UTILITY OWNER



PLAN SCALE 1"=20'

- NOTES:
- SEE TYPICAL SECTIONS FOR PATHWAY AND ROADWAY STRUCTURAL SECTIONS.
 - SEE RECONSTRUCT EXISTING PATH SECTION DET.34, SHEET C-7. CONTRACTOR SHALL STAGE THE WORK TO ALLOW PEDESTRIAN AND BICYCLE ACCESS AT ALL TIMES.

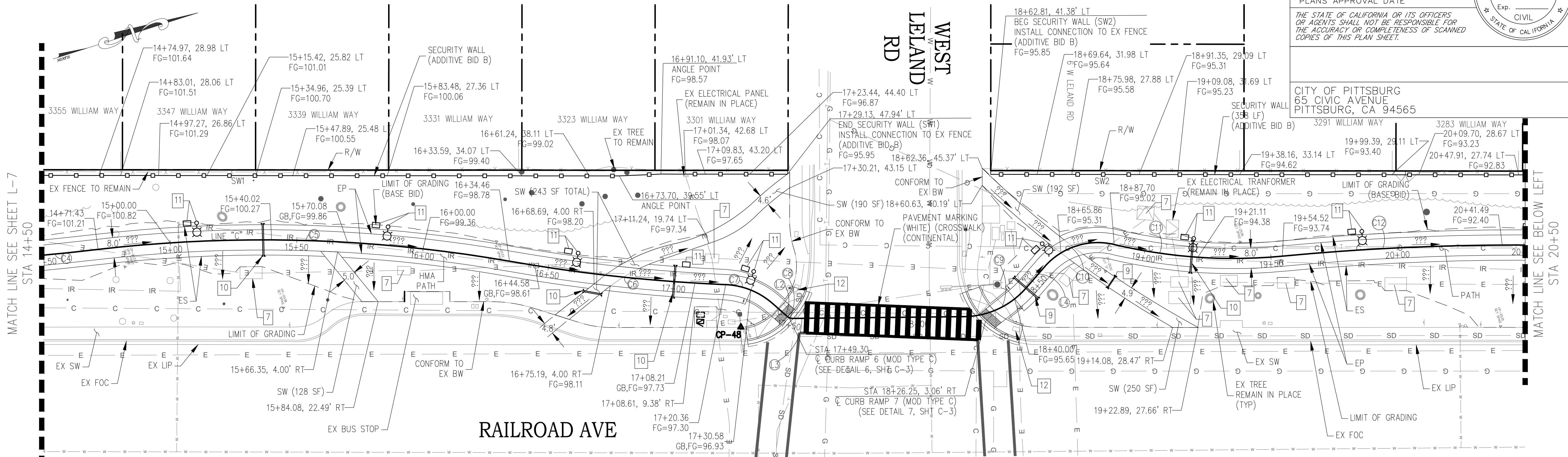
NOTES:
1. SEE TYPICAL SECTIONS FOR PATHWAY AND ROADWAY SECTION STRUCTURAL SECTIONS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	21	79

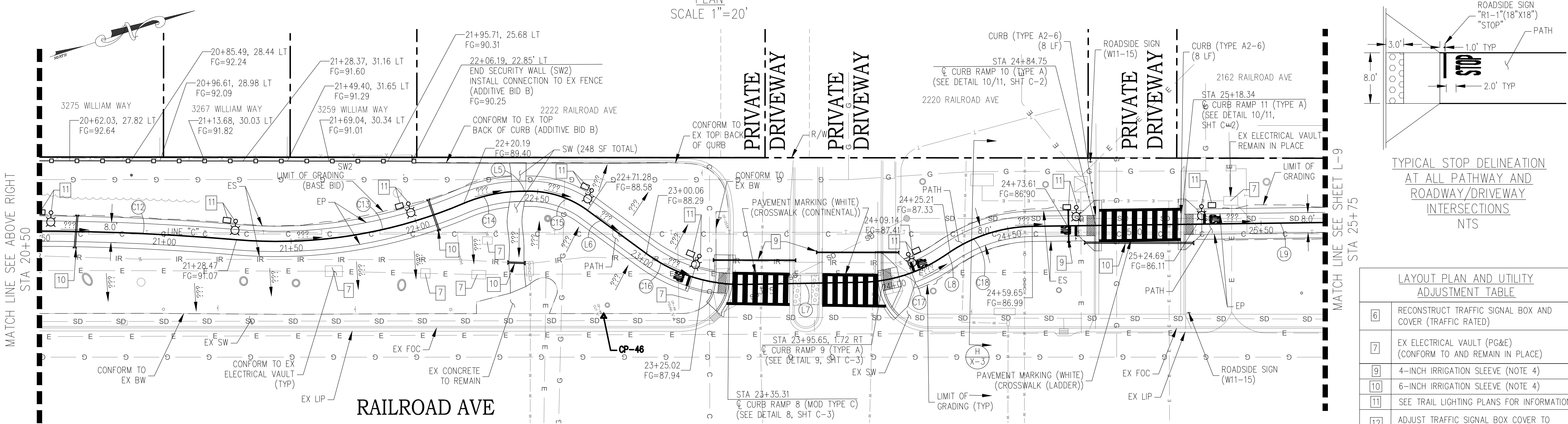
REGISTERED CIVIL ENGINEER
DATE 01-17-23
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

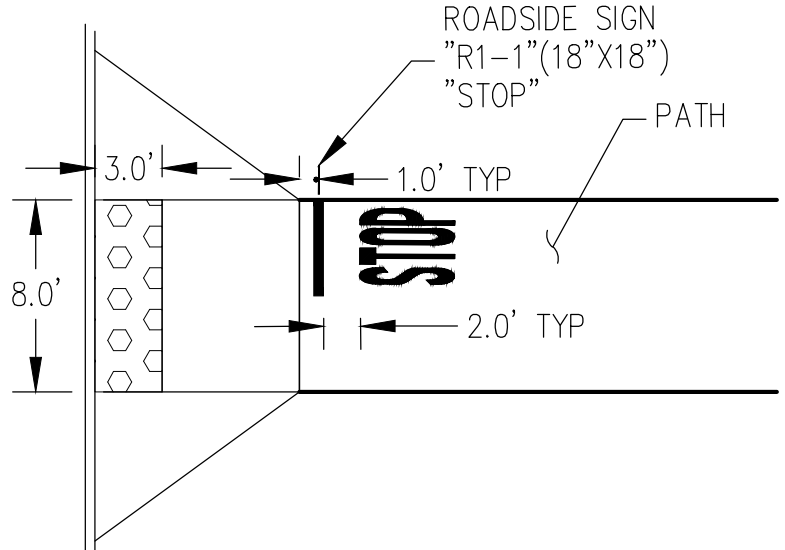
CITY OF PITTSBURG
65 CIVIC AVENUE
PITTSBURG, CA 94565



PLAN SCALE 1"=20'



PLAN SCALE 1"=20'



TYPICAL STOP DELINEATION AT ALL PATHWAY AND ROADWAY/DRIVEWAY INTERSECTIONS NTS

LAYOUT PLAN AND UTILITY ADJUSTMENT TABLE	
6	RECONSTRUCT TRAFFIC SIGNAL BOX AND COVER (TRAFFIC RATED)
7	EX ELECTRICAL VAULT (PG&E) (CONFORM TO AND REMAIN IN PLACE)
9	4-INCH IRRIGATION SLEEVE (NOTE 4)
10	6-INCH IRRIGATION SLEEVE (NOTE 4)
11	SEE TRAIL LIGHTING PLANS FOR INFORMATION
12	ADJUST TRAFFIC SIGNAL BOX COVER TO GRADE (NOTE 2)

RAILROAD AVE LAYOUT L-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 FUNCTIONAL SUPERVISOR
 DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE
 01/17/2023
 01/17/2023

BORDER LAST REVISED 8/1/2010

USERNAME => FRANCISCO
 DWG FILE => 20-bpbc-l-7.dwg

RELATIVE BORDER SCALE IS IN INCHES

UNIT PROJECT NUMBER & PHASE 0421000238 EA 2W580

DATE PLOTTED =>
 01-17-23
 TIME PLOTTED =>

NOTE A: (THIS SHEET ONLY)
 SEE SHEET ST-2 FOR BUS SHELTER AND
 FOUNDATION DETAILS NOT SHOWN.
 SIDEWALK ON TOP OF BUS SHELTER
 FOUNDATION SHALL BE PAID SEPARATELY
 AS CONCRETE SIDEWALK.

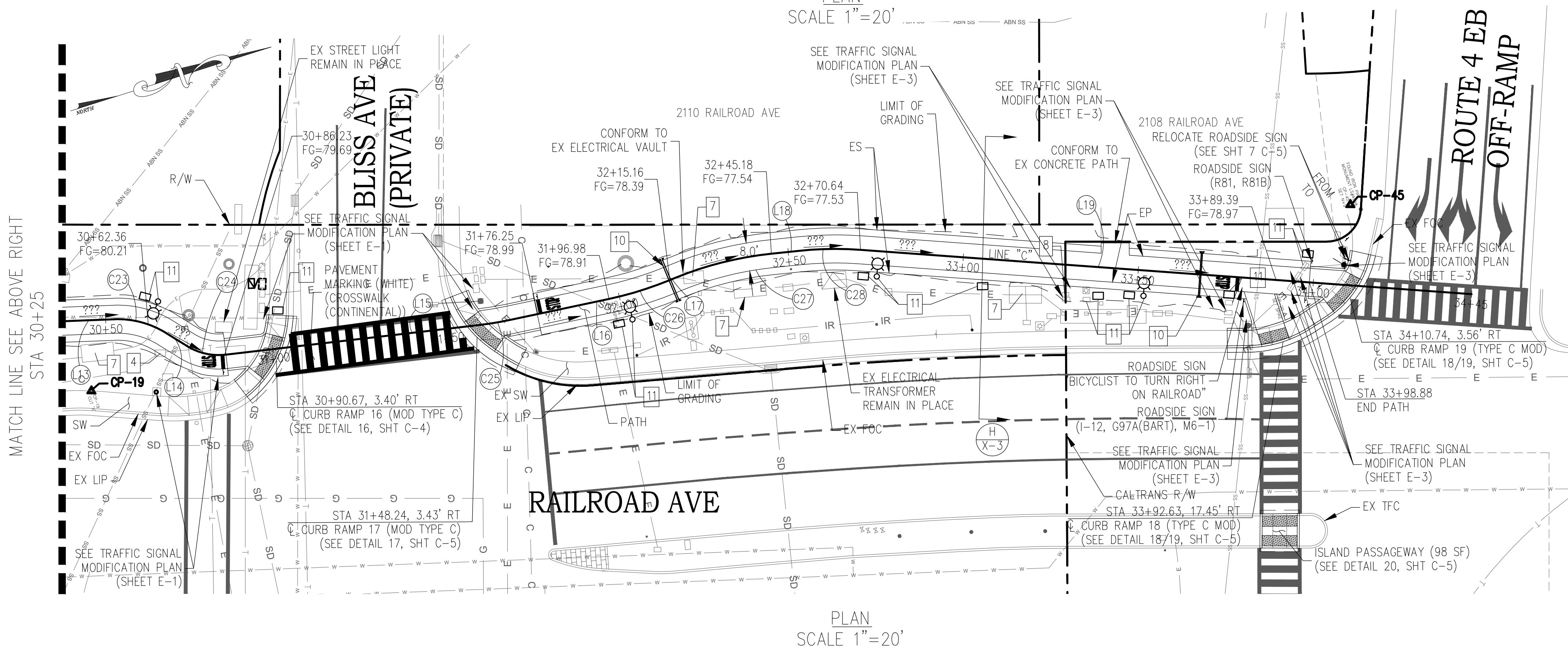
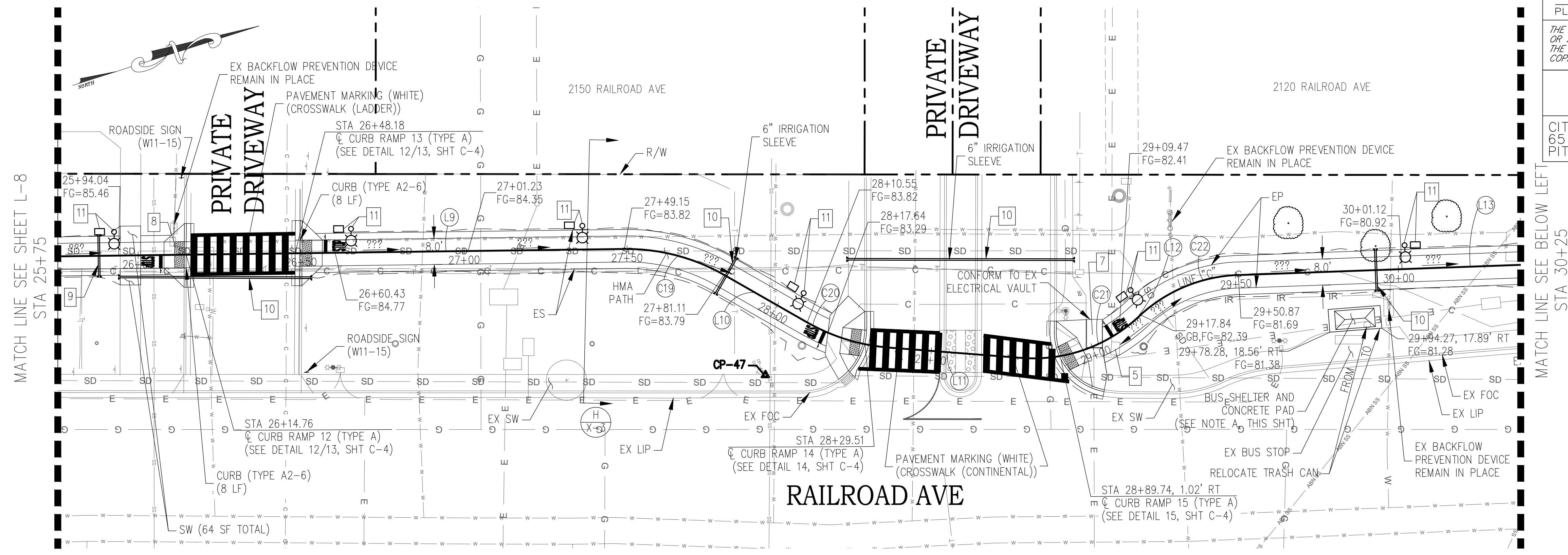
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	22	79

JOHN SAMUELSON, CITY ENGINEER, CE 67734 DATE _____

PLANS APPROVAL DATE _____

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



LAYOUT PLAN AND UTILITY ADJUSTMENT TABLE

4	ADJUST TELECOM BOX COVER TO GRADE (AT&T) (BY OTHERS)*
5	ADJUST ELECTRICAL BOX COVER TO GRADE (PG&E) (BY OTHERS)*
6	RECONSTRUCT TRAFFIC SIGNAL BOX AND COVER (TRAFFIC RATED)
7	EX ELECTRICAL VAULT (PG&E) (CONFORM TO AND REMAIN IN PLACE)
8	ADJUST WATER METER COVER TO GRADE (CITY OF PITTSBURG)
9	4-INCH IRRIGATION SLEEVE (NOTE 4)
10	6-INCH IRRIGATION SLEEVE (NOTE 4)
11	SEE TRAIL LIGHTING PLANS FOR INFORMATION
15	ADJUST CITY STREET LIGHTING BOX COVER TO GRADE (NOTE 2)

* "BY OTHERS" - RELOCATION OR ADJUSTMENT BY UTILITY OWNER

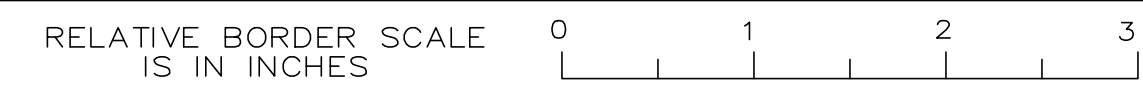
- NOTES:
- SEE TYPICAL SECTIONS FOR PATHWAY AND ROADWAY SECTION STRUCTURAL SECTIONS.
 - EXISTING SIGNAL, RAMP METERING, AND SAFETY, LIGHTING ELECTRICAL CIRCUITS SHALL REMAIN OPERATIONAL ALL TIMES.

REVISION	DATE	BY	REASON
1	01/17/2023	FRANCISCO	ISSUE FOR PERMITS
2	01/17/2023	FRANCISCO	REVISED PER COMMENTS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Functional Supervisor: _____
 DESIGNED BY: _____
 CHECKED BY: _____

BORDER LAST REVISED 8/1/2010

USERNAME => FRANCISCO
 DWG FILE => 20-bpbc-l-7.dwg




UNIT PROJECT NUMBER & PHASE 0421000238 EA 2W580

RAILROAD AVE LAYOUT L-9

DATE PLOTTED =>
 01-17-23
 TIME PLOTTED =>

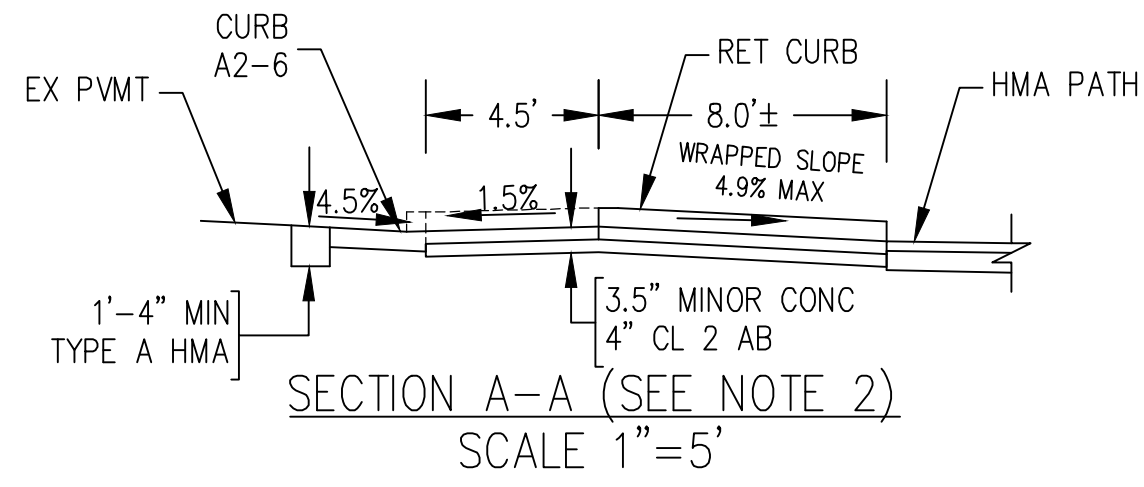
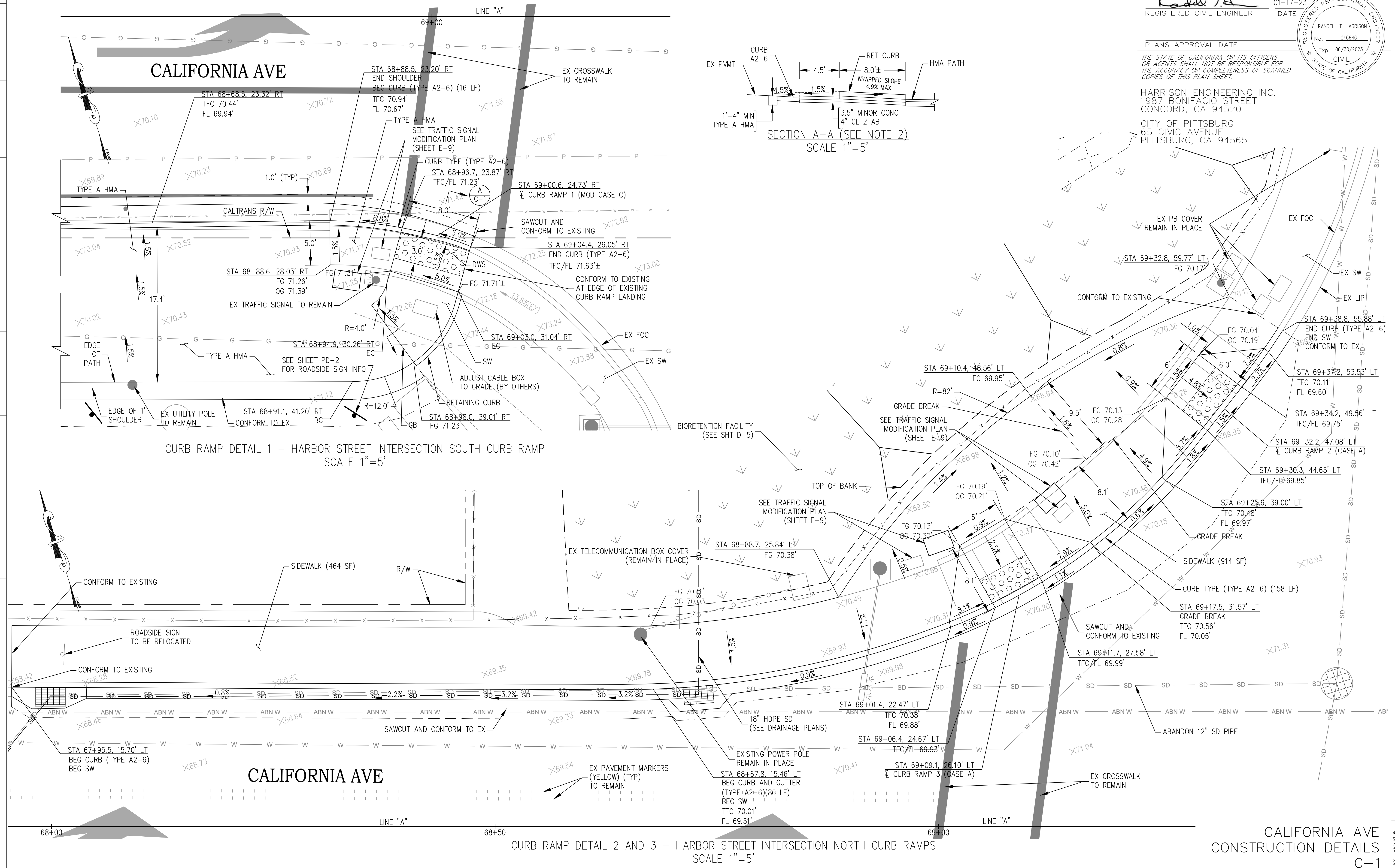
NOTES:
 1. FOR SIDEWALK DETAILS NOT SHOWN SEE CONTRA COSTA STD PLAN CA70, CLASS 2 AB SHALL BE 4" THICK UNDER ALL CONCRETE SIDEWALKS AND CURB RAMP.
 2. FOR DETAILS NOT SHOWN, SEE CALTRANS STD PLANS A88A AND A88B.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	23	79


 01-17-23
 REGISTERED CIVIL ENGINEER DATE
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

HARRISON ENGINEERING INC.
 1987 BONIFACIO STREET
 CONCORD, CA 94520
 CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565

REVISED BY: RANDELL HARRISON
 DATE: 01/17/2023
 DESIGNED BY: RANDELL HARRISON
 CHECKED BY:
 FUNCTIONAL SUPERVISOR:
 DEPARTMENT OF TRANSPORTATION
 STATE OF CALIFORNIA
 Caltrans




CURB RAMP DETAIL 1 - HARBOR STREET INTERSECTION SOUTH CURB RAMP
 SCALE 1"=5'

CURB RAMP DETAIL 2 AND 3 - HARBOR STREET INTERSECTION NORTH CURB RAMP
 SCALE 1"=5'

- NOTES:
- CONTRACTOR SHALL RESTORE IRRIGATION SYSTEM, SUCH THAT BOTH SIDES OF PATH HAVE FUNCTIONAL SYSTEMS.
 - SEE SHEET D-7 FOR STORM DRAIN INFORMATION AND DETAILS NOT SHOWN.
 - CONTRACTOR SHALL CONSTRUCT SCORELINE AT ALL SIDEWALK GRADE BREAKS.
 - CONCRETE SIDEWALK AND CURB RAMPS BETWEEN 80+15.0 AND 80+78.4 SHALL BE 6" MINOR CONCRETE OVER 4" CL 2 AB.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	24	79

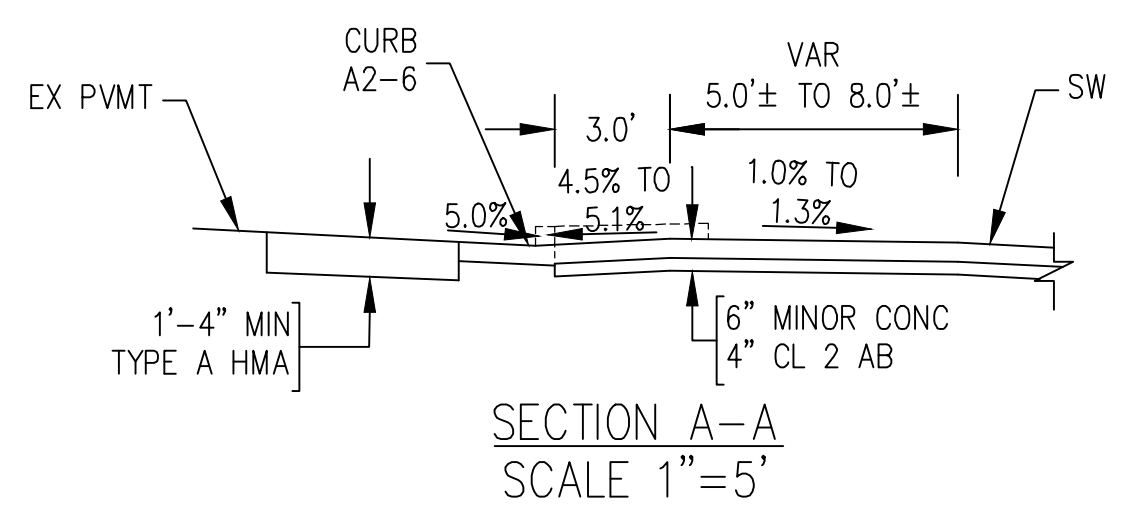
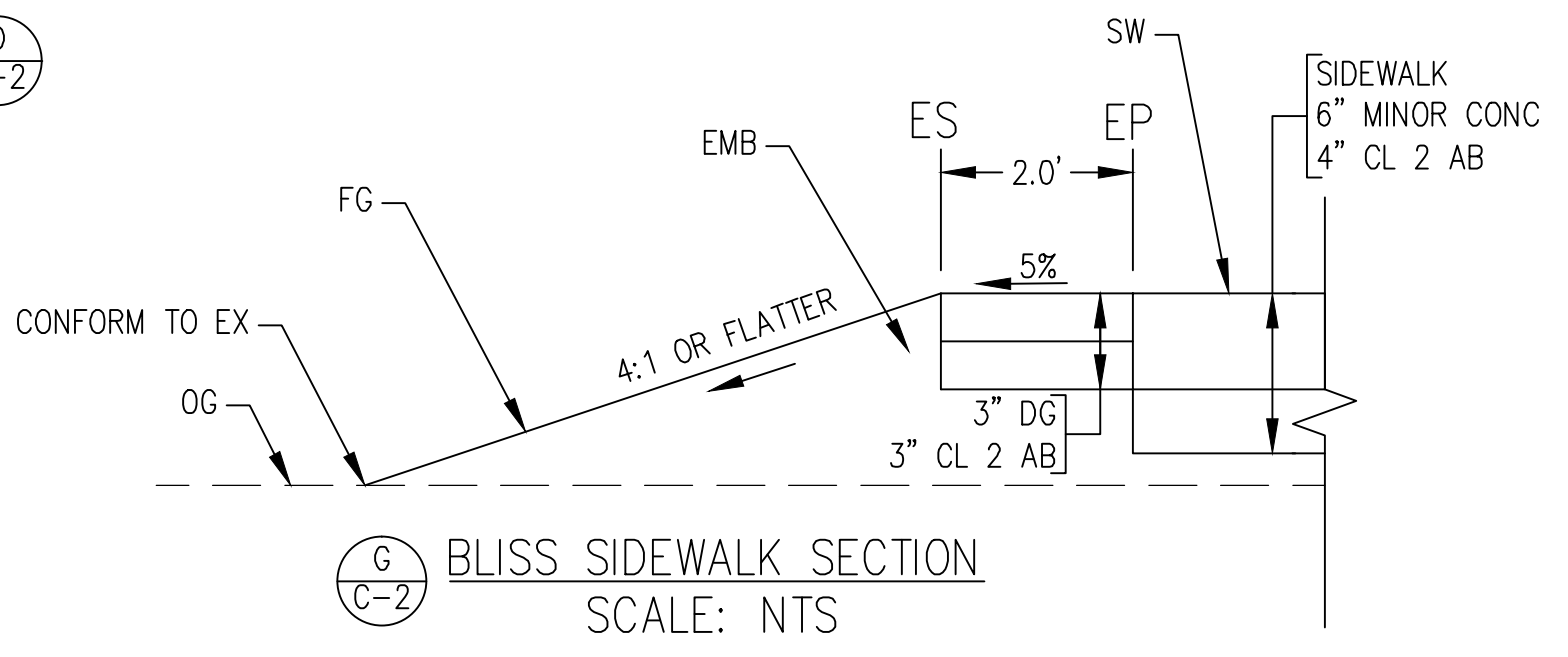
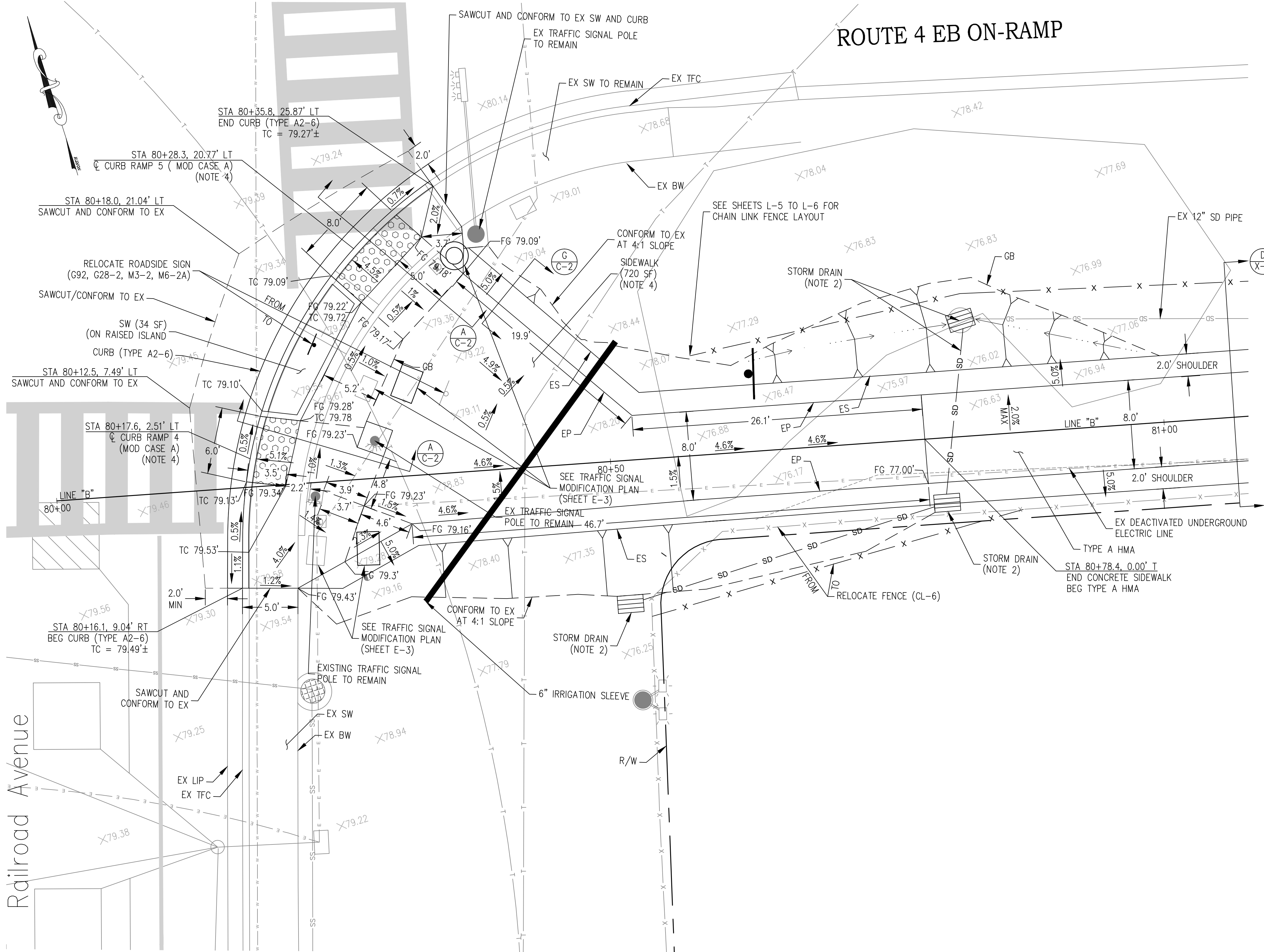

 01-17-23
 REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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HARRISON ENGINEERING INC.
 1987 BONIFACIO STREET
 CONCORD, CA 94520
 CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565

ROUTE 4 EB ON-RAMP



CURB RAMP 4 AND 5 AND STORM DRAIN - RAILROAD AVE INTERSECTION EB ROUTE 4 ON-RAMP
SCALE 1"=5'


BLISS AVE
 CONSTRUCTION DETAILS
 C-2

REVISIONS:
 DATE 01/17/2023
 DESIGNED BY RANDELL HARRISON
 CHECKED BY RANDELL HARRISON
 FUNCTIONAL SUPERVISOR
 DEPARTMENT OF TRANSPORTATION
 STATE OF CALIFORNIA

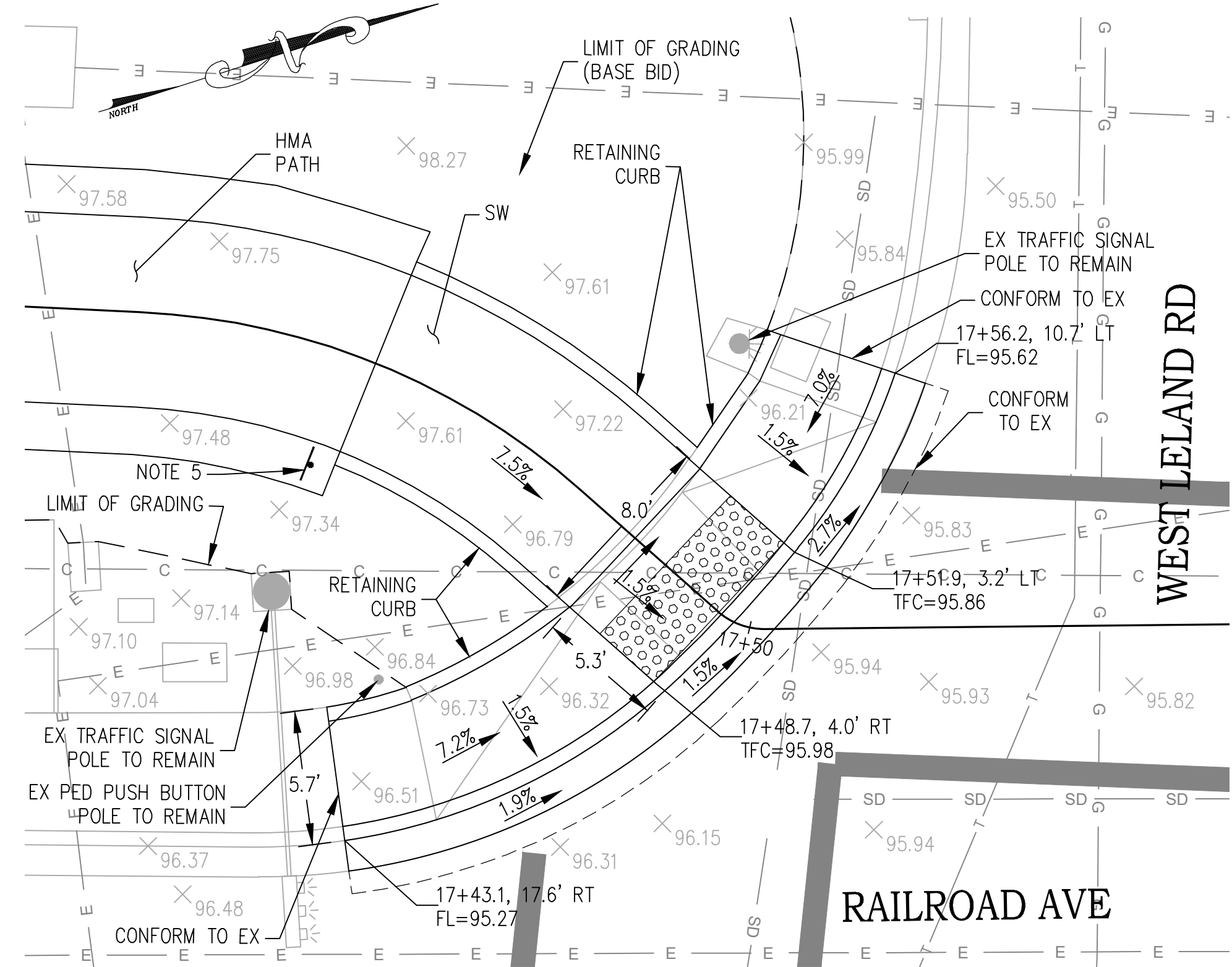


- NOTES:
1. FOR CURB RAMP CURB RAMP DETAILS NOT SHOWN, SEE CALTRANS STANDARD PLAN A88A, AND A88B.
 2. FOR SIDEWALK CURB RAMP DETAILS NOT SHOWN, SEE CONTRA COSTA COUNTY STD PLAN CA70. CLASS 2 AB SHALL BE 4" THICK UNDER ALL CONCRETE SIDEWALKS.
 3. FOR CURB CURB RAMP DETAILS (OF ALL TYPES) NOT SHOWN, SEE STATE STD PLAN A87A.
 4. SEE TRAFFIC SIGNAL MODIFICATION PLANS FOR NEW PEDESTRIAN PUSH BUTTON LOCATIONS AND TRAFFIC SIGNAL INFORMATION NOT SHOWN.
 5. FOR ROADSIDE SIGN DETAILS ALONG PATH, SEE "TYPICAL STOP DELINEATION AT ALL PATHWAY AND ROADWAY/DIRVEWAY INTERSECTIONS" DETAIL ON SHEET L-8.
 6. SEE DEMOLITION PLANS (DM SHEETS) FOR ALL TREE REMOVALS.

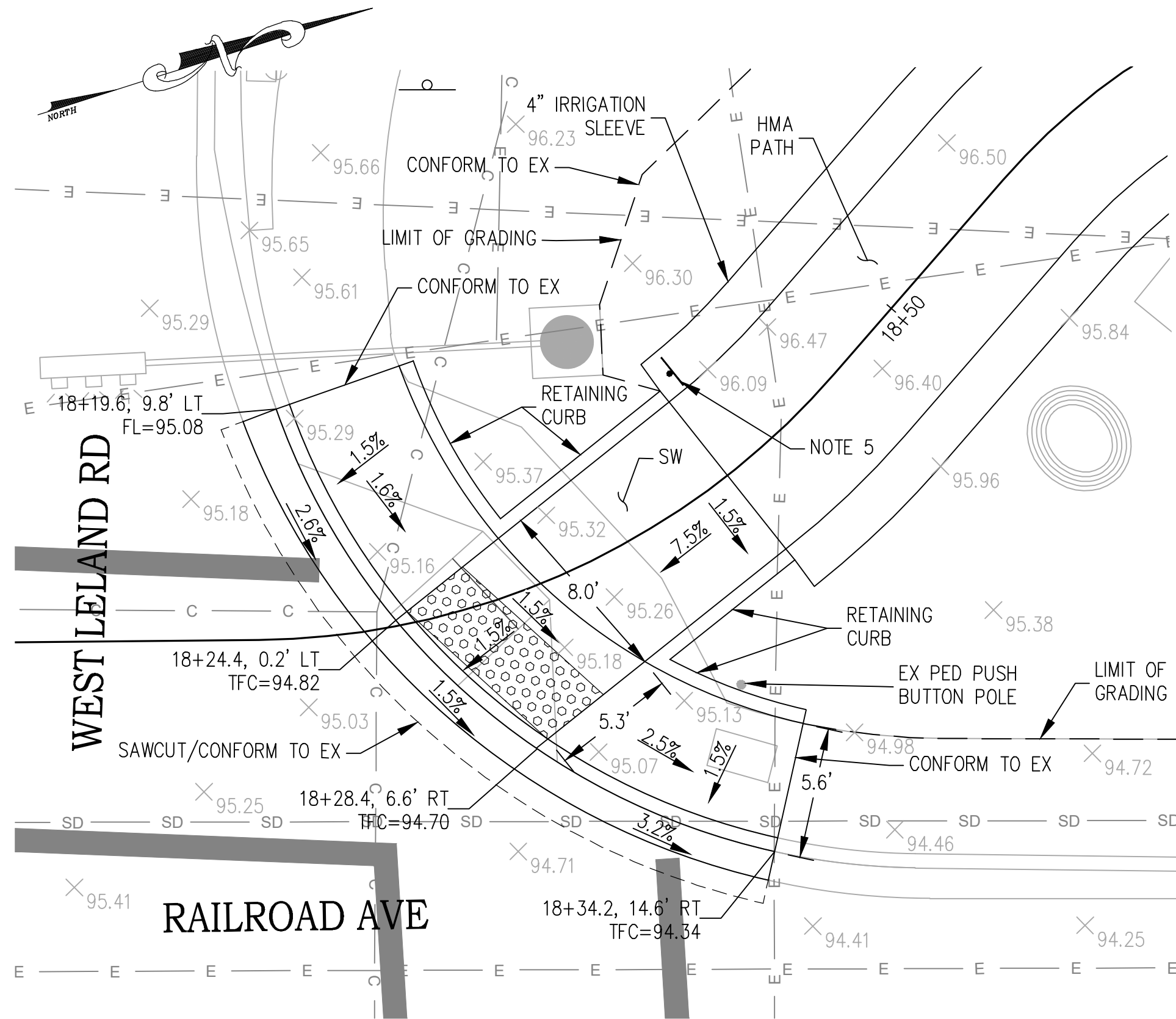
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	25	79


 REGISTERED CIVIL ENGINEER
 DATE 01-17-23
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

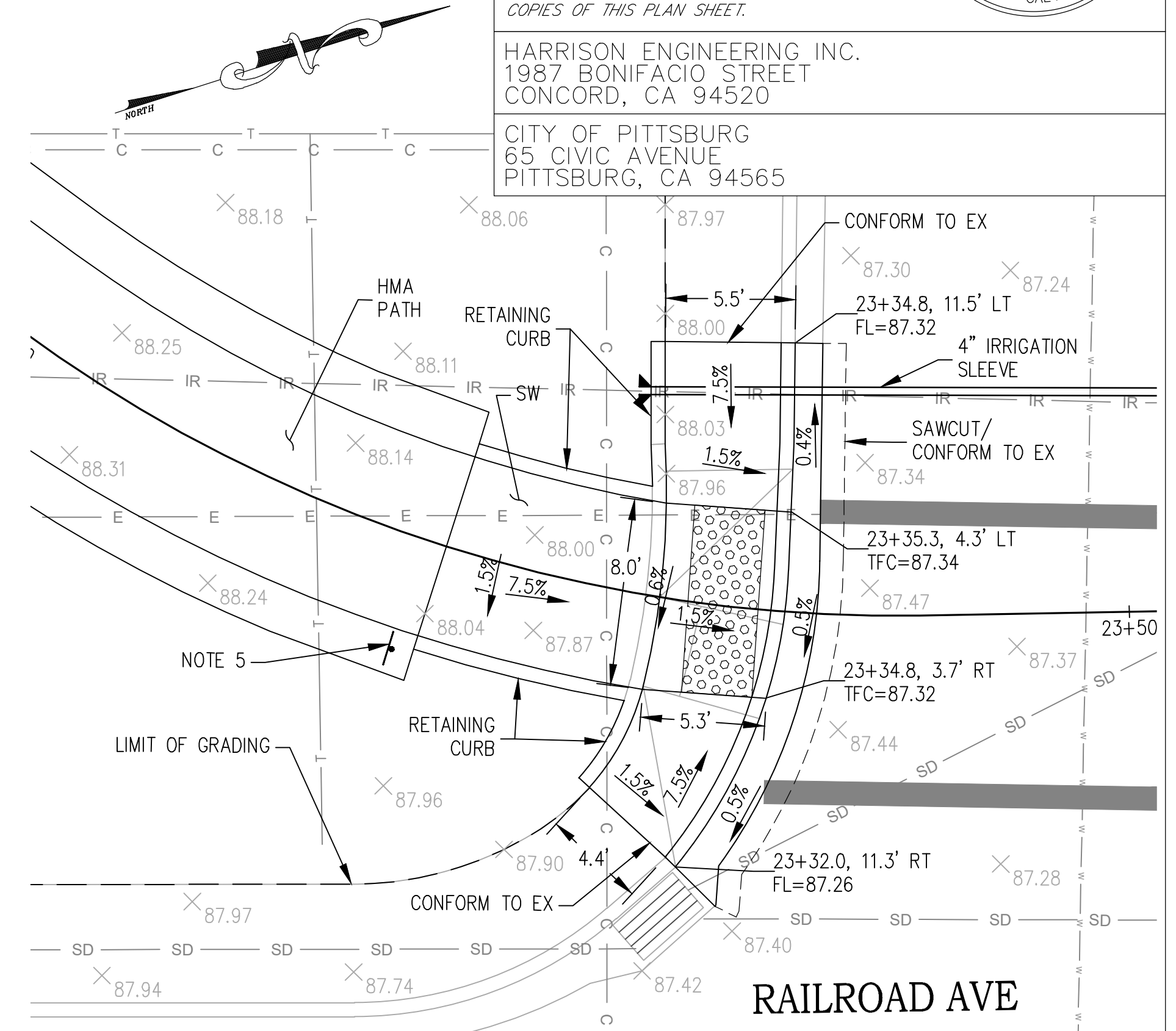
HARRISON ENGINEERING INC.
 1987 BONIFACIO STREET
 CONCORD, CA 94520
 CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



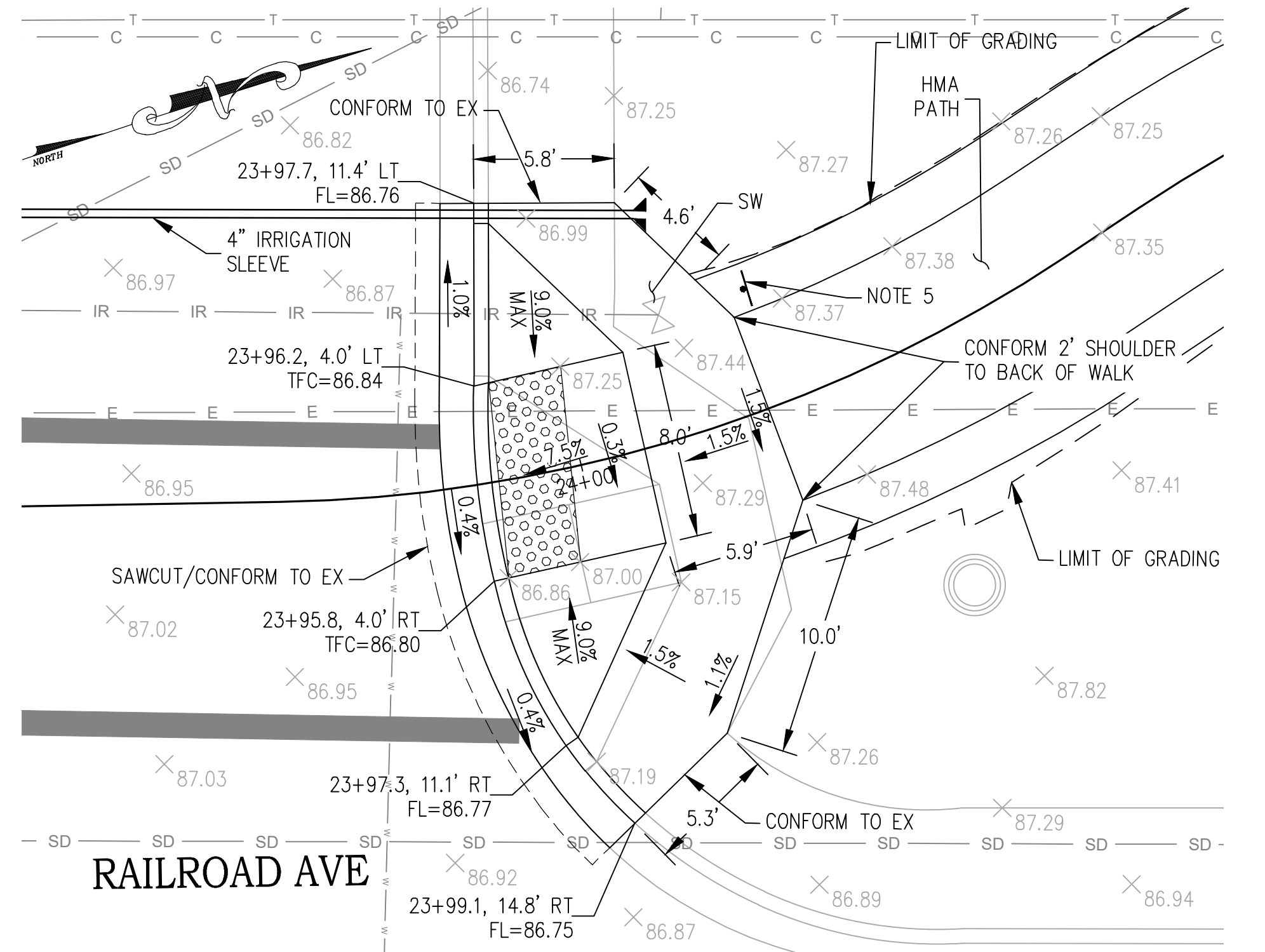
CURB RAMP DETAIL 6
SCALE 1"=5'



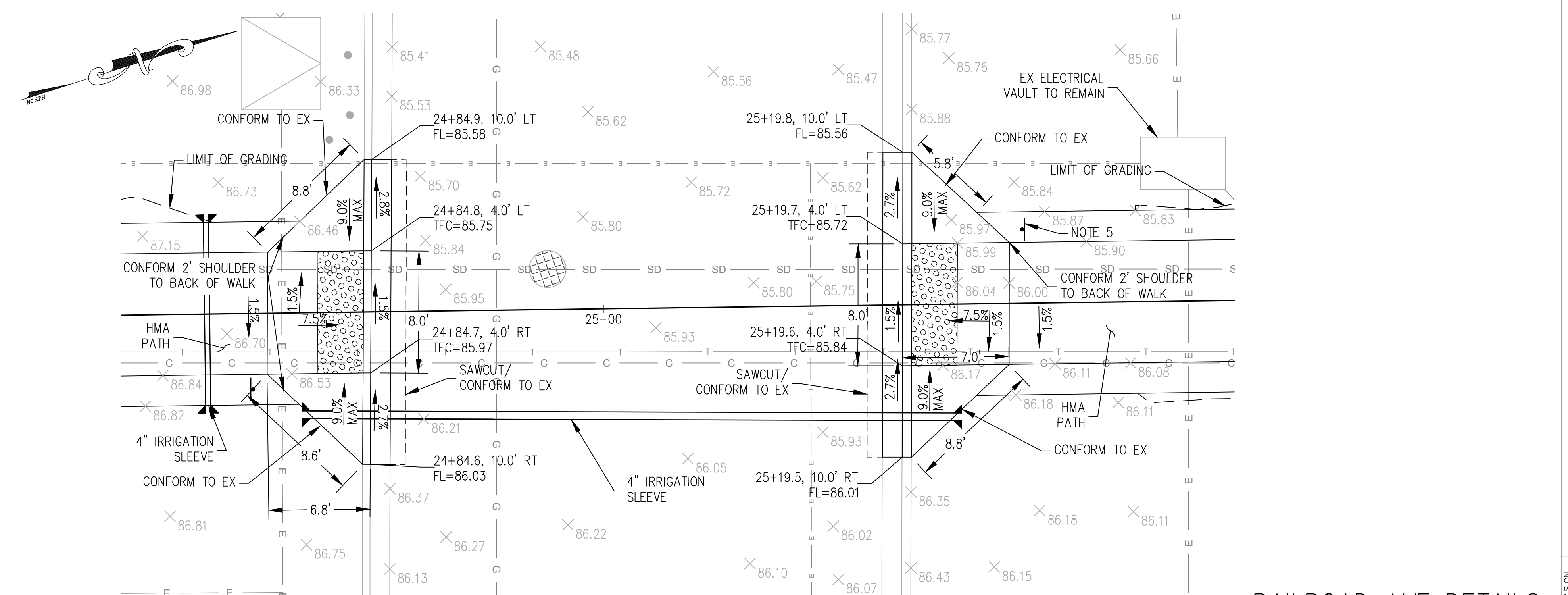
CURB RAMP DETAIL 7
SCALE 1"=5'



CURB RAMP DETAIL 8
SCALE 1"=5'



CURB RAMP DETAIL 9
SCALE 1"=5'



CURB RAMP DETAIL 10 AND 11
SCALE 1"=5'

RAILROAD AVE DETAILS
C-3

REVISED BY: RANDELL HARRISON
 DATE: 01/17/2023
 DESIGNED BY: RANDELL HARRISON
 CHECKED BY:
 FUNCTIONAL SUPERVISOR:
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans

BORDER LAST REVISED 8/1/2010

USERNAME => FRANCISCO
DWG FILE => 25-bpbc-c-3.dwg

RELATIVE BORDER SCALE IS IN INCHES

UNIT PROJECT NUMBER & PHASE 0421000238 EA 2W580

LAST REVISION: 01-17-23
 DATE PLOTTED =>
 TIME PLOTTED =>

- NOTES:
1. FOR CURB RAMP CURB RAMP DETAILS NOT SHOWN, SEE CALTRANS STANDARD PLAN A88A, AND A88B.
 2. FOR SIDEWALK CURB RAMP DETAILS NOT SHOWN, SEE CONTRA COSTA COUNTY STD PLAN CA70. CLASS 2 AB SHALL BE 4" THICK UNDER ALL CONCRETE SIDEWALKS.
 3. FOR CURB CURB RAMP DETAILS (OF ALL TYPES) NOT SHOWN, SEE STATE STD PLAN A87A.
 4. FOR ROADSIDE SIGN DETAILS ALONG PATH, SEE "TYPICAL STOP DELINEATION AT ALL PATHWAY AND ROADWAY/DIRVEWAY INTERSECTIONS" DETAIL ON SHEET L-8.
 5. SEE DEMOLITION PLANS (DM SHEETS) FOR ALL TREE REMOVALS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	26	79

Randell T. Harrison
 REGISTERED CIVIL ENGINEER
 DATE 01-17-23

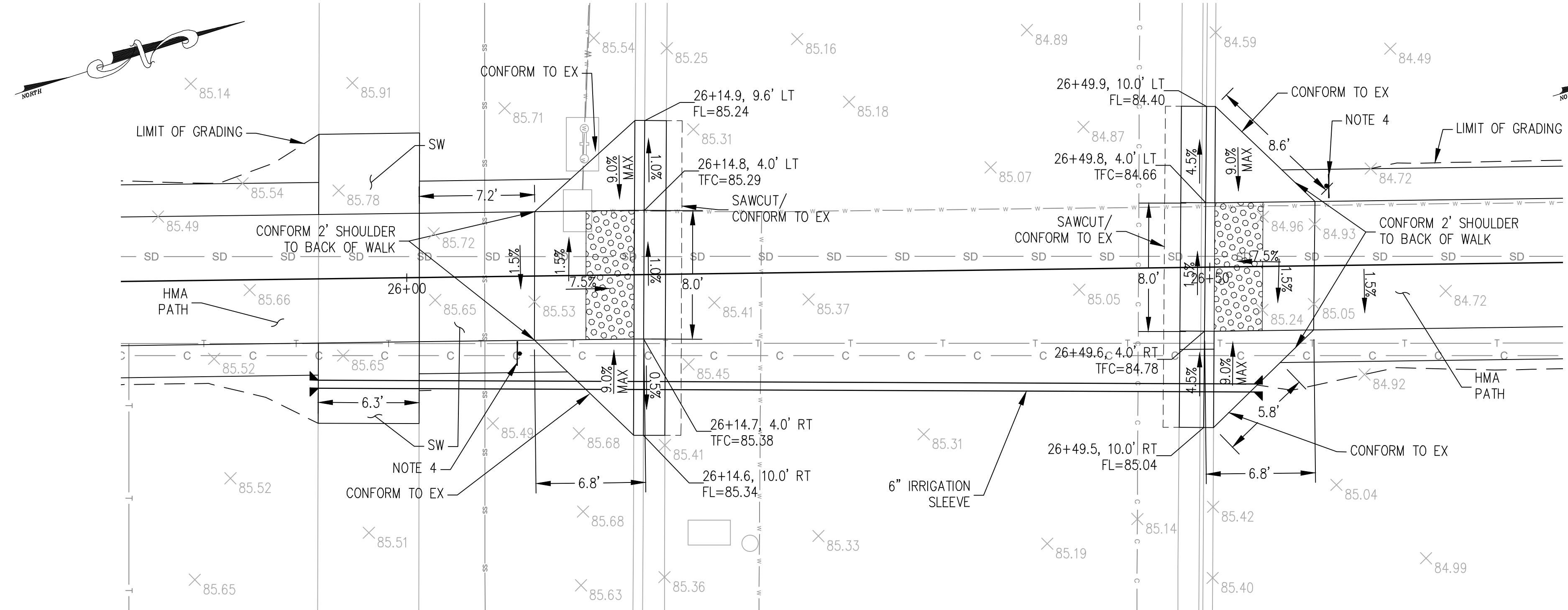
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

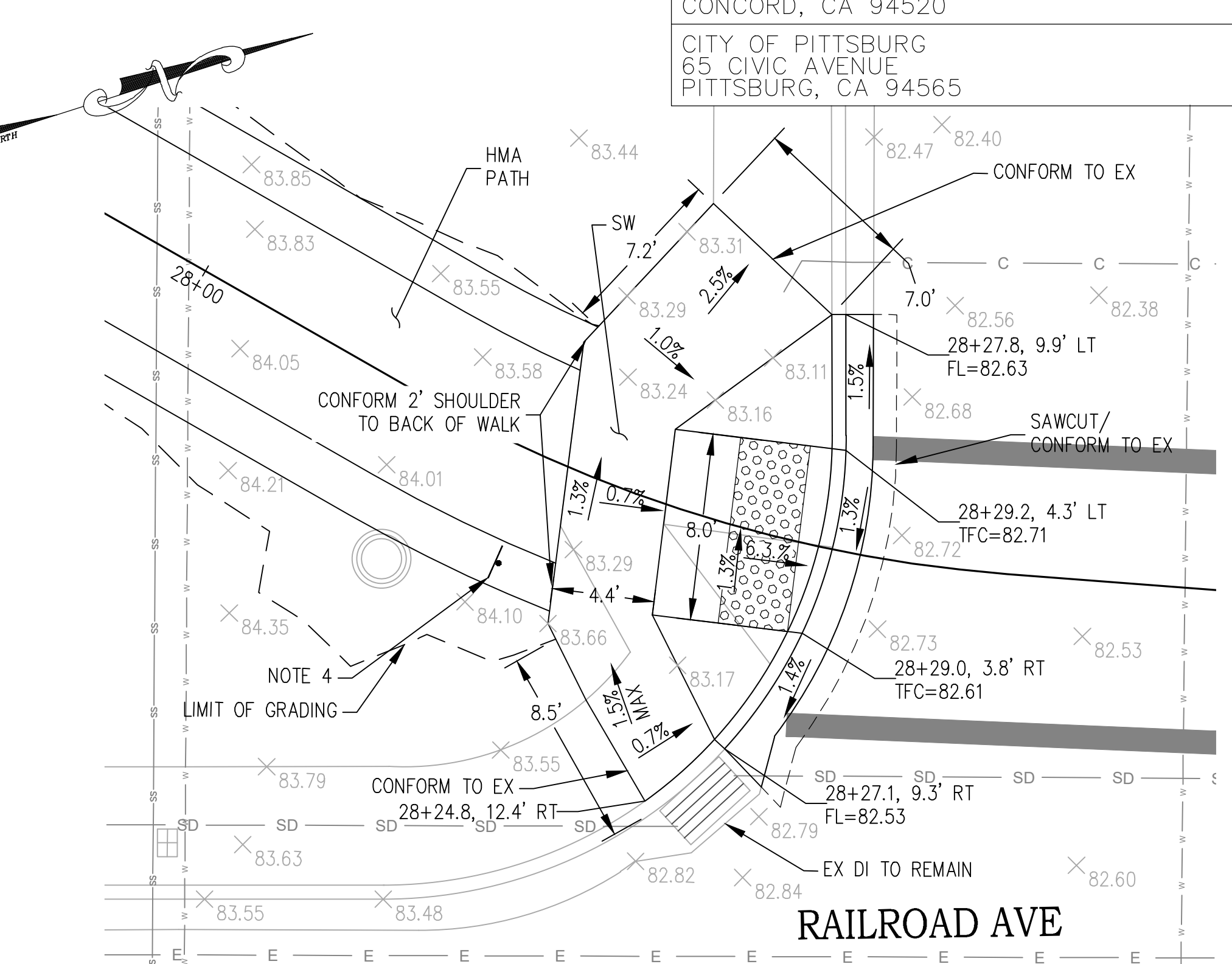
HARRISON ENGINEERING INC.
 1987 BONIFACIO STREET
 CONCORD, CA 94520

CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565

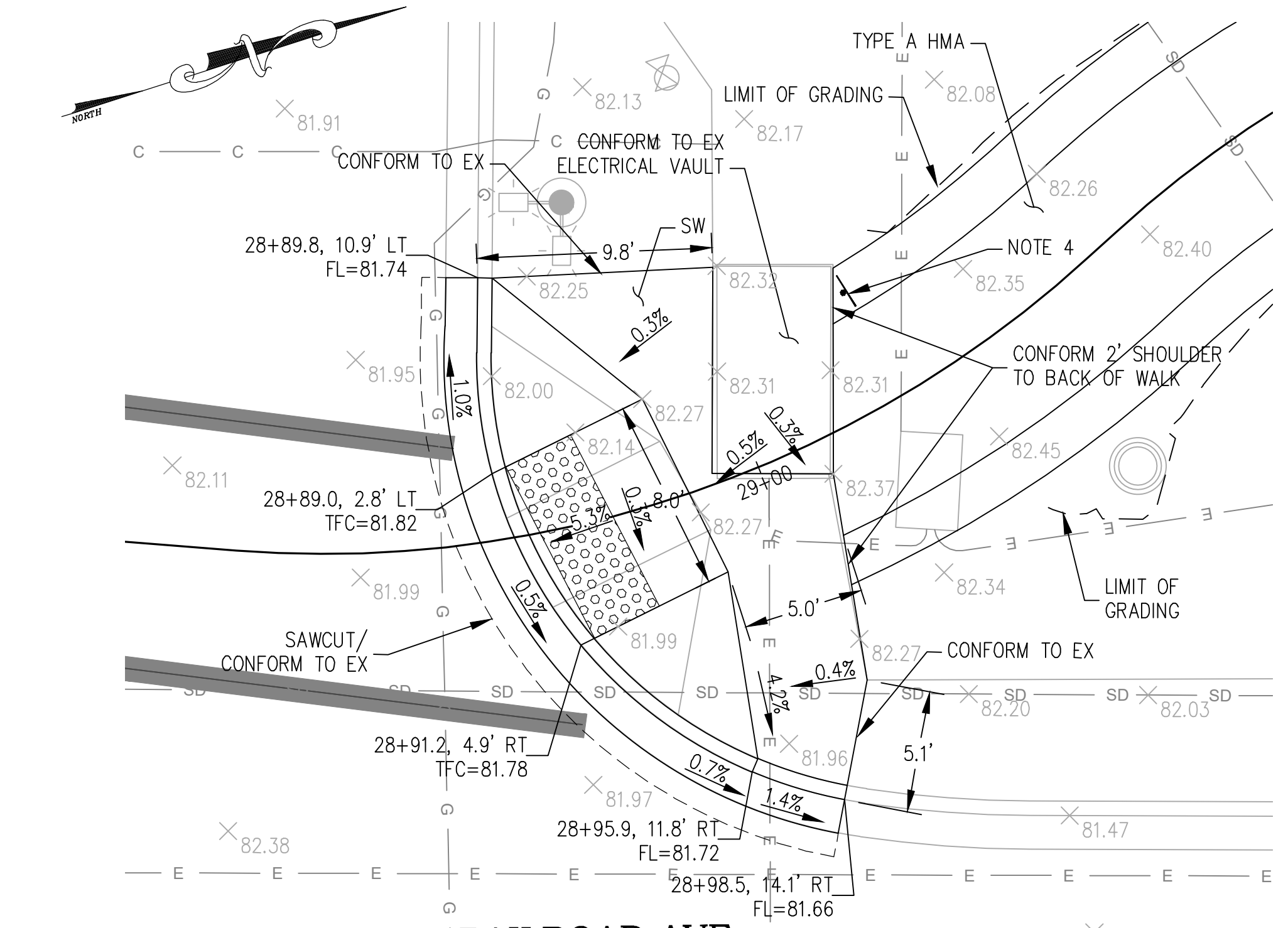
REGISTERED PROFESSIONAL ENGINEER
 RANDALL T. HARRISON
 No. C46646
 Exp. 06/30/2023
 CIVIL
 STATE OF CALIFORNIA



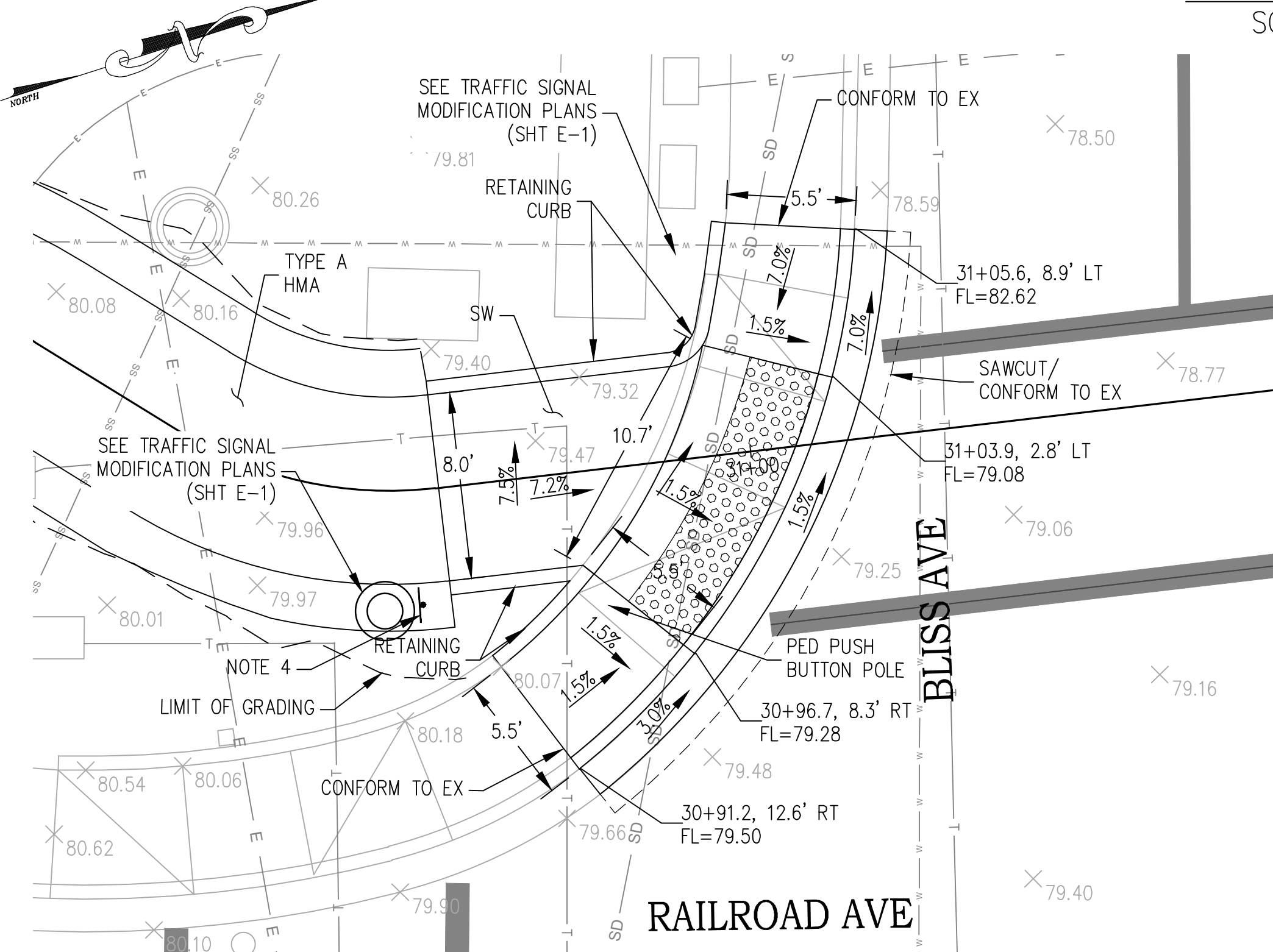
CURB RAMP DETAIL 12 AND 13
 SCALE 1"=5'



CURB RAMP DETAIL 14
 SCALE 1"=5'



RAILROAD AVE
 CURB RAMP DETAIL 15
 SCALE 1"=5'



RAILROAD AVE
 CURB RAMP DETAIL 16
 SCALE 1"=5'

RAILROAD AVE DETAILS
 C-4

REVISED BY: RANDELL HARRISON
 DATE: 01/17/2023

DESIGNED BY: RANDELL HARRISON
 CHECKED BY:

FUNCTIONAL SUPERVISOR:

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

BORDER LAST REVISED 8/1/2010

USERNAME => FRANCISCO
 DWG FILE => 25-bpbc-c-3.dwg

RELATIVE BORDER SCALE IS IN INCHES

0 1 2 3

UNIT PROJECT NUMBER & PHASE 0421000238 EA 2W580

DATE PLOTTED => 01-17-23
 TIME PLOTTED =>

- NOTES:
 1. FOR CURB RAMP CURB RAMP DETAILS NOT SHOWN, SEE CALTRANS STANDARD PLAN A88A, AND A88B.
 2. FOR SIDEWALK CURB RAMP DETAILS NOT SHOWN, SEE CONTRA COSTA COUNTY STD PLAN CA70. CLASS 2 AB SHALL BE 4" THICK UNDER ALL CONCRETE SIDEWALKS.
 3. FOR CURB CURB RAMP DETAILS (OF ALL TYPES) NOT SHOWN, SEE STATE STD PLAN A87A.
 4. FOR ROADSIDE SIGN DETAILS ALONG PATH, SEE "TYPICAL STOP DELINEATION AT ALL PATHWAY AND ROADWAY/DIRVEWAY INTERSECTIONS" DETAIL ON SHEET L-8.
 5. SEE DEMOLITION PLANS (DM SHEETS) FOR ALL TREE REMOVALS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	27	79

REGISTERED CIVIL ENGINEER
 RANDALL T. HARRISON
 No. C46646
 Exp. 06/30/2023
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE
 01-17-23
 DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

HARRISON ENGINEERING INC.
 1987 BONIFACIO STREET
 CONCORD, CA 94520

CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565

REVISED BY
 RANDELL HARRISON

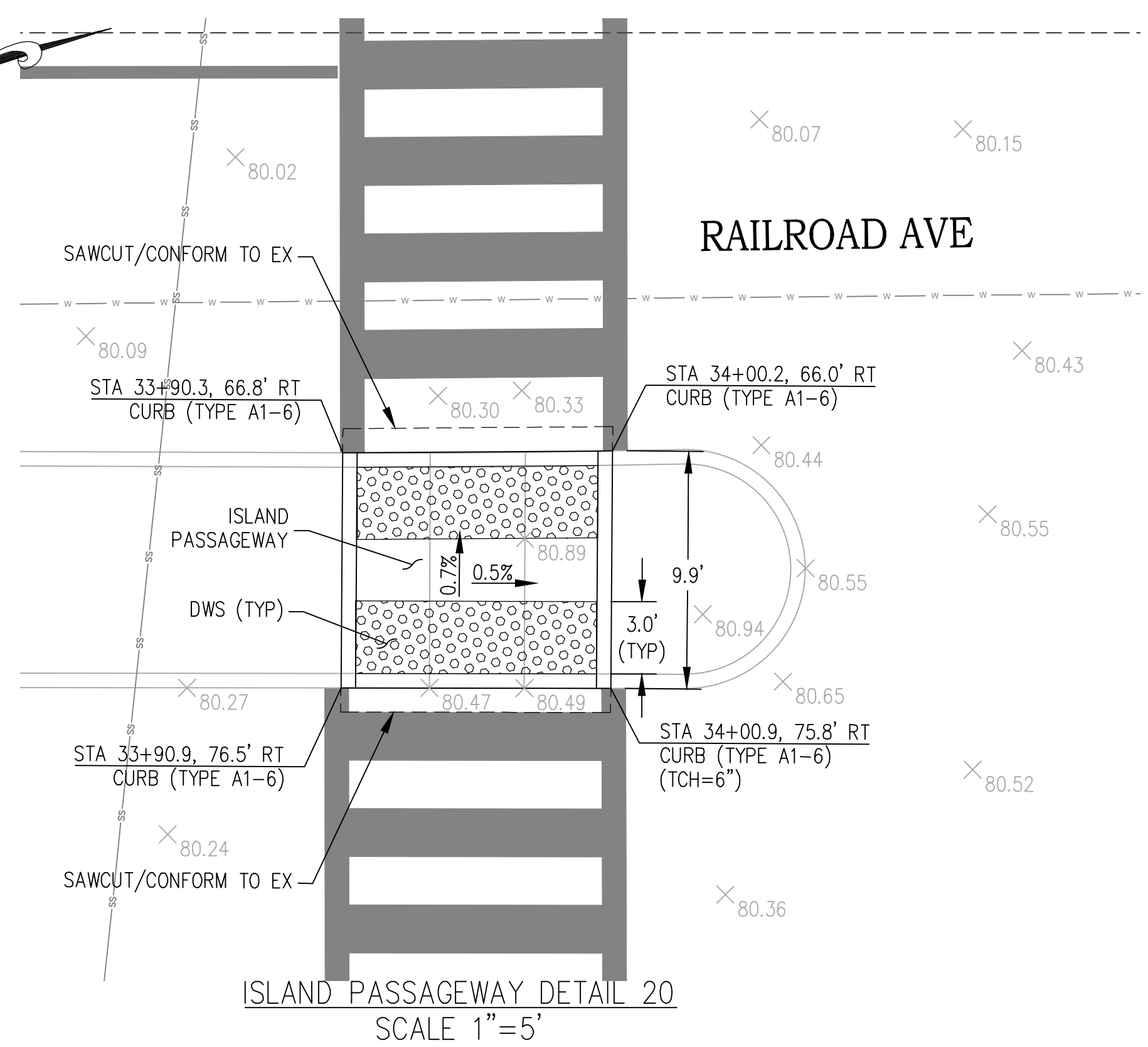
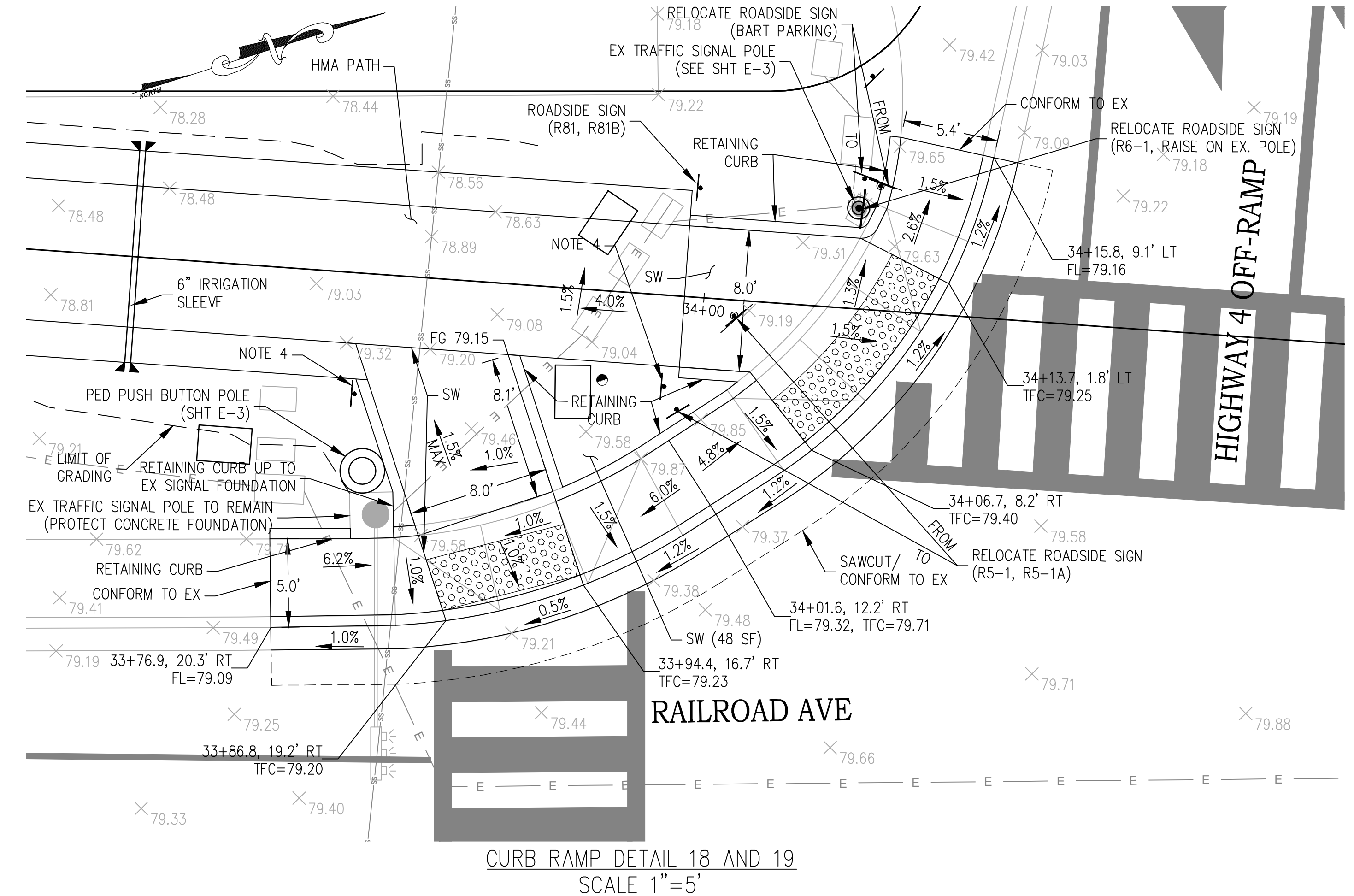
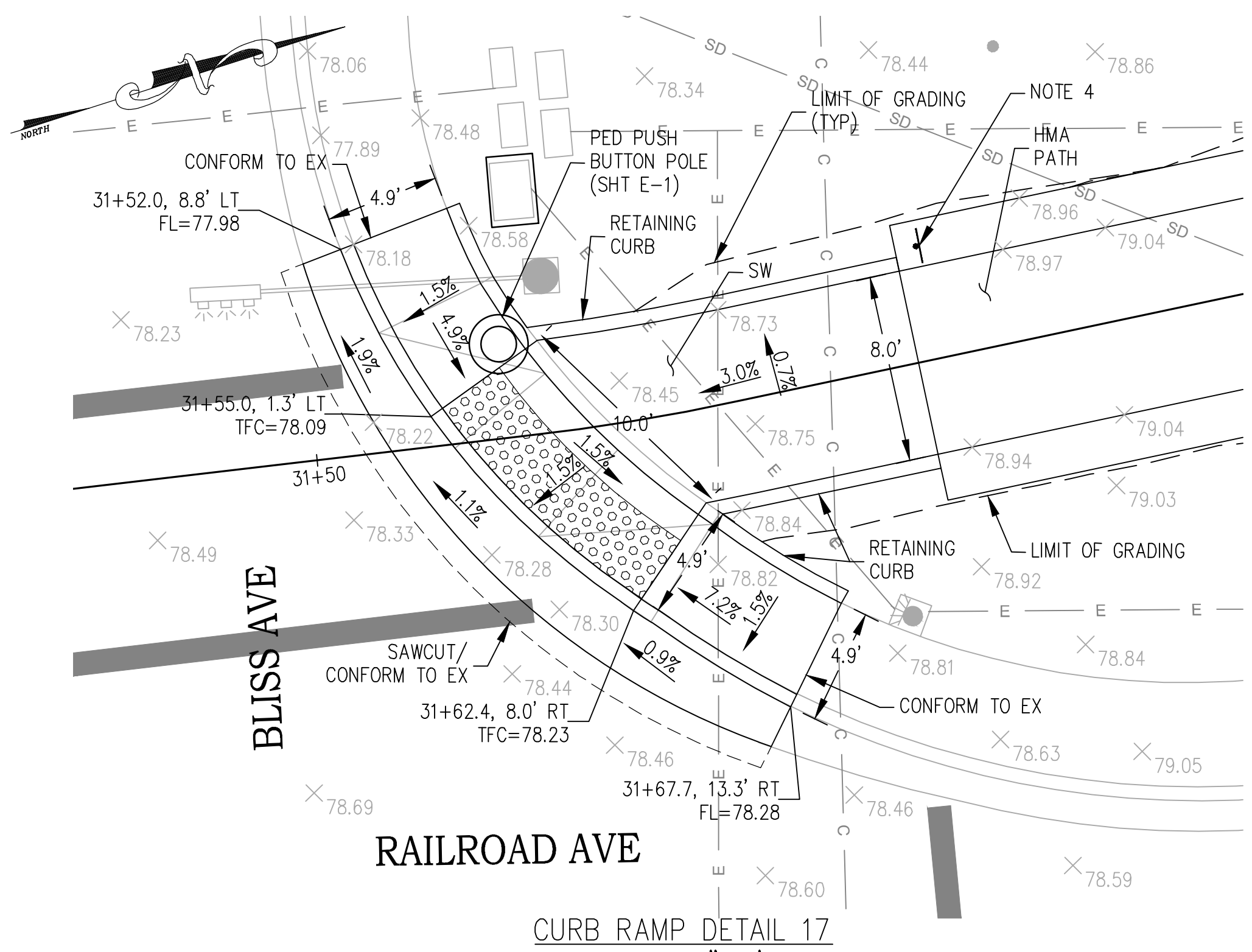
DATE
 01/17/2023

DESIGNED BY
 RANDELL HARRISON

CHECKED BY
 RANDELL HARRISON

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans



NOTES:
 1. SHOP DRAWINGS AND CALCULATIONS TO BE PROVIDED BY PRECAST MANUFACTURER.
 2. SEE CONTRA COSTA STANDARD PLAN CD30.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	28	79

JOHN SAMUELSON, CITY ENGINEER, CE 67734 DATE _____

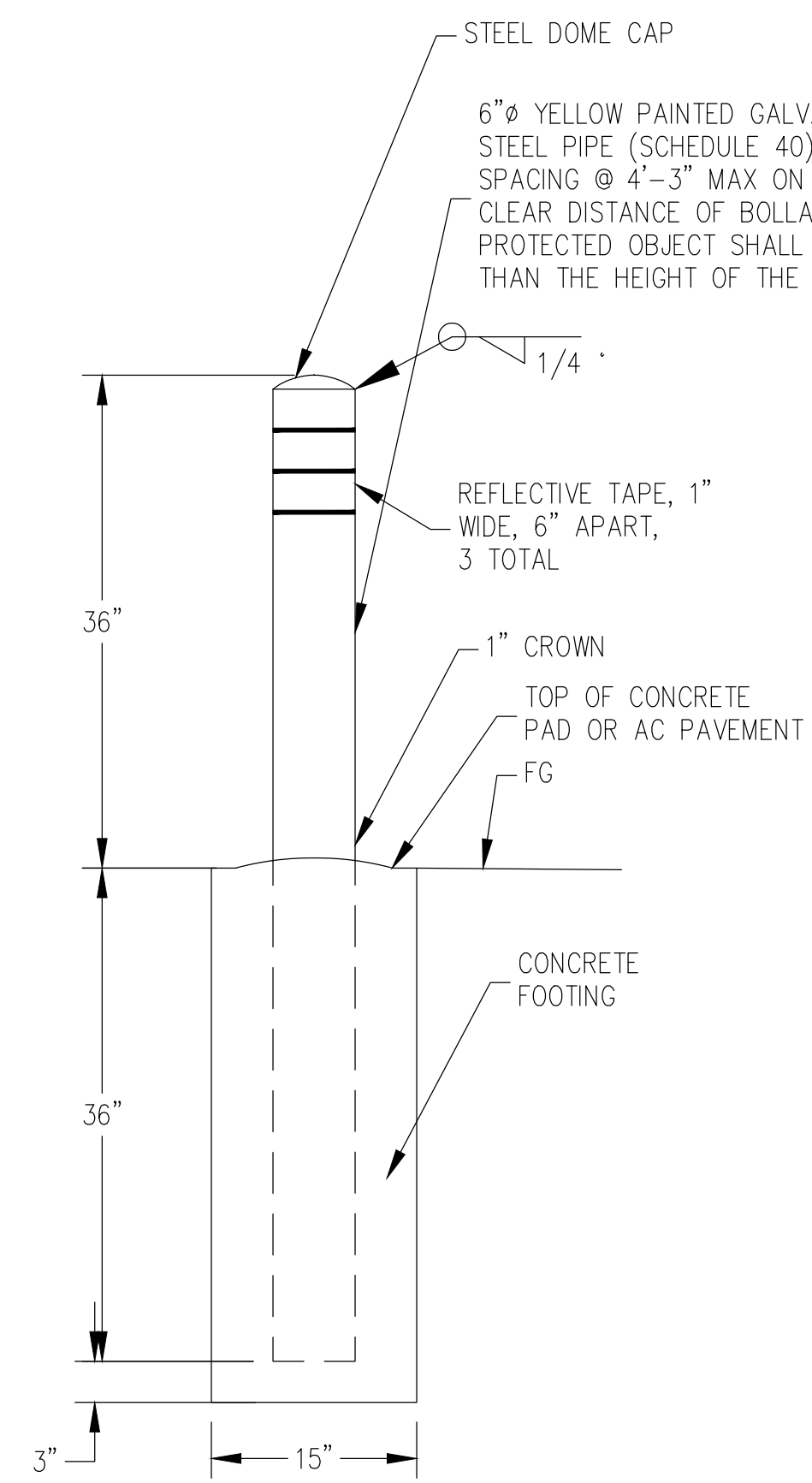


PLANS APPROVAL DATE _____

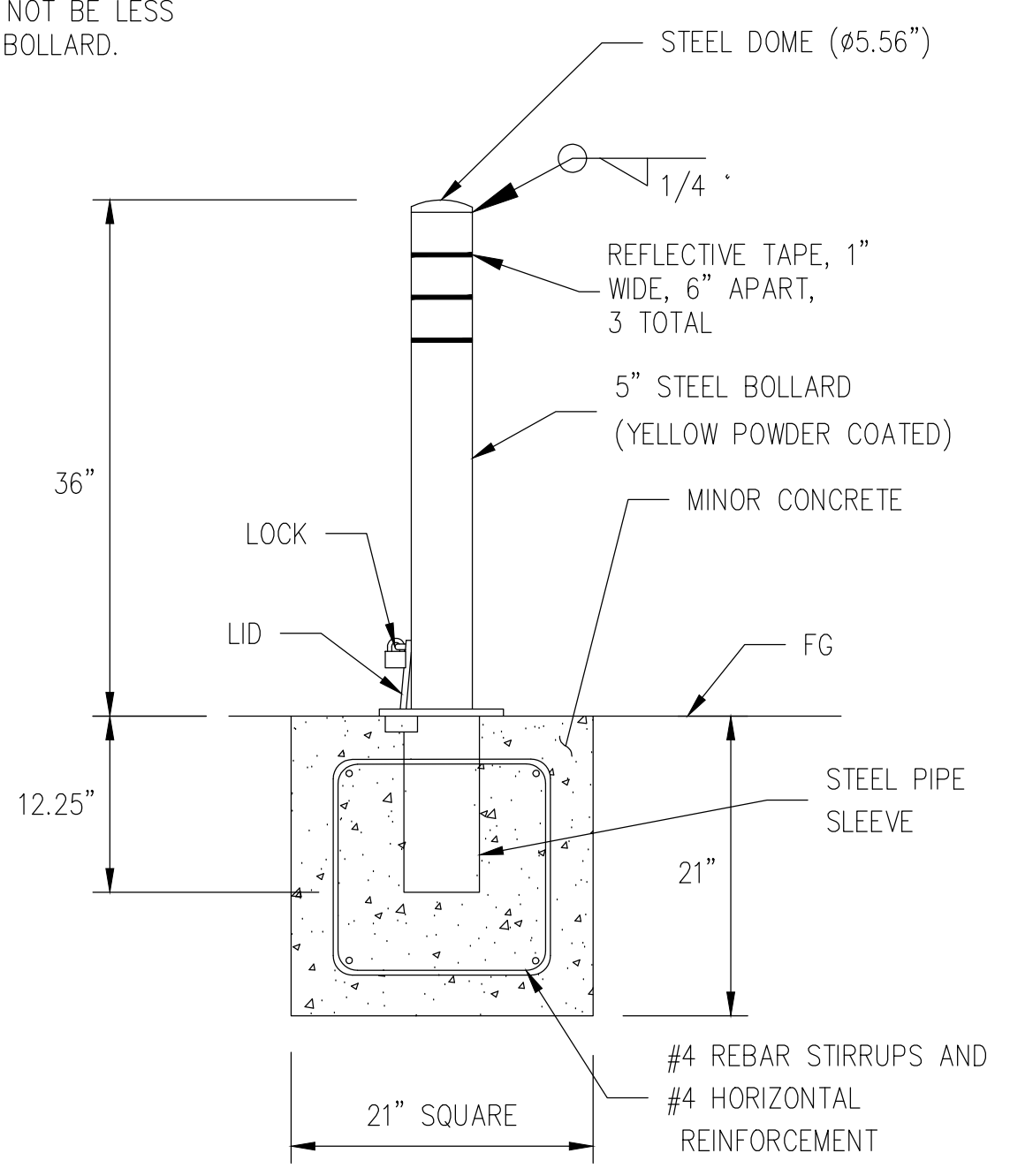
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565

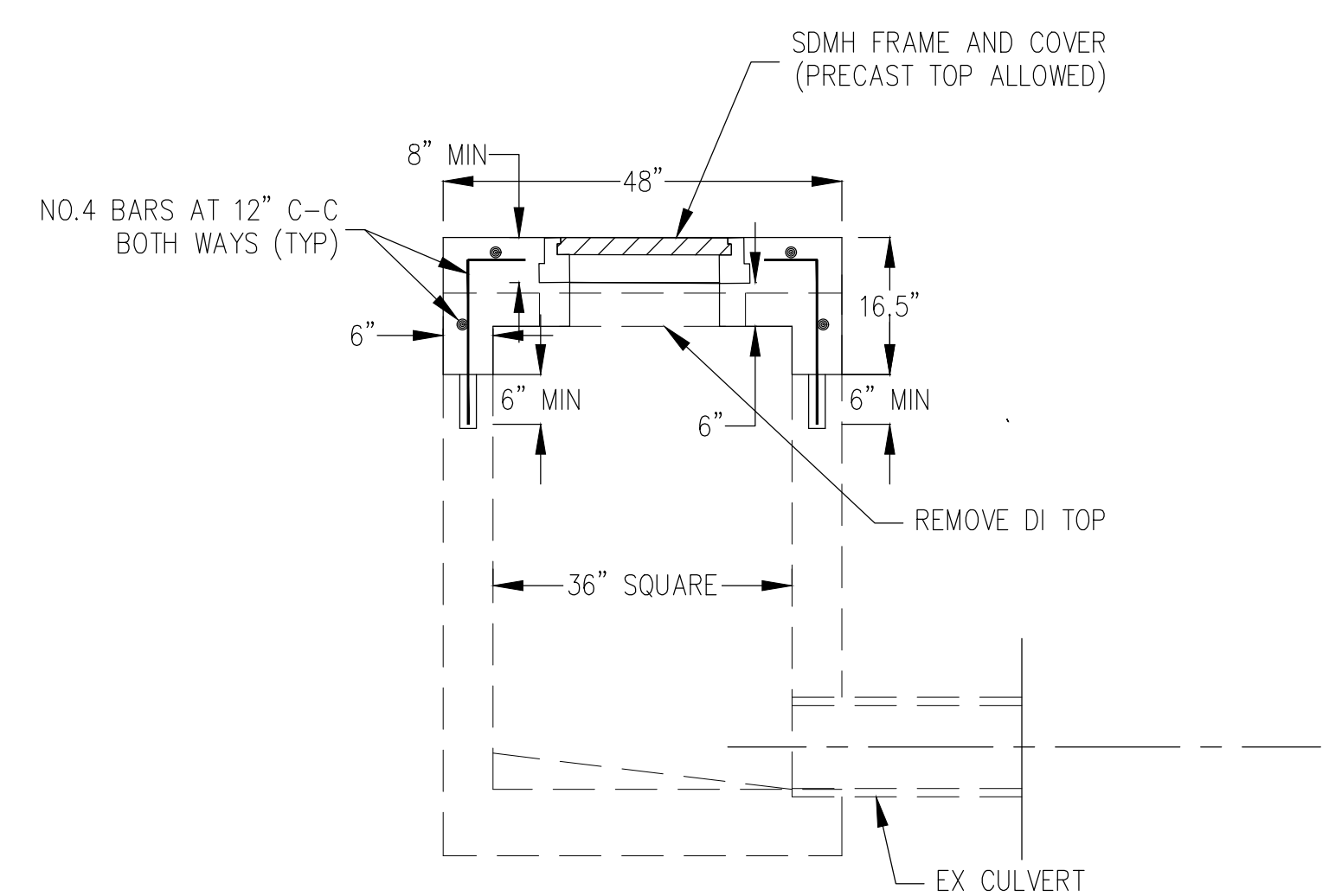
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR
 DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE
 DATE



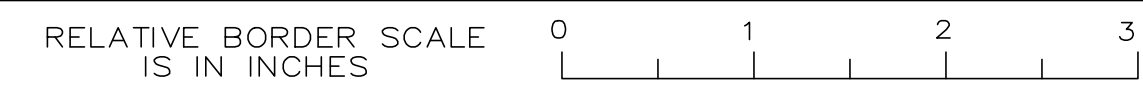
DETAIL 23 - BOLLARD
 NOT TO SCALE
 STA 90+21



DETAIL 24 - REMOVABLE BOLLARD
 NOT TO SCALE
 STA 90+21



DETAIL 27 - REMODEL DI TO MH TOP
 NOT TO SCALE
 STA 52+50, 53+57



DATE PLOTTED =>
 01-17-23
 TIME PLOTTED =>

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	29	79

JOHN SAMUELSON, CITY ENGINEER, CE 67734 DATE _____

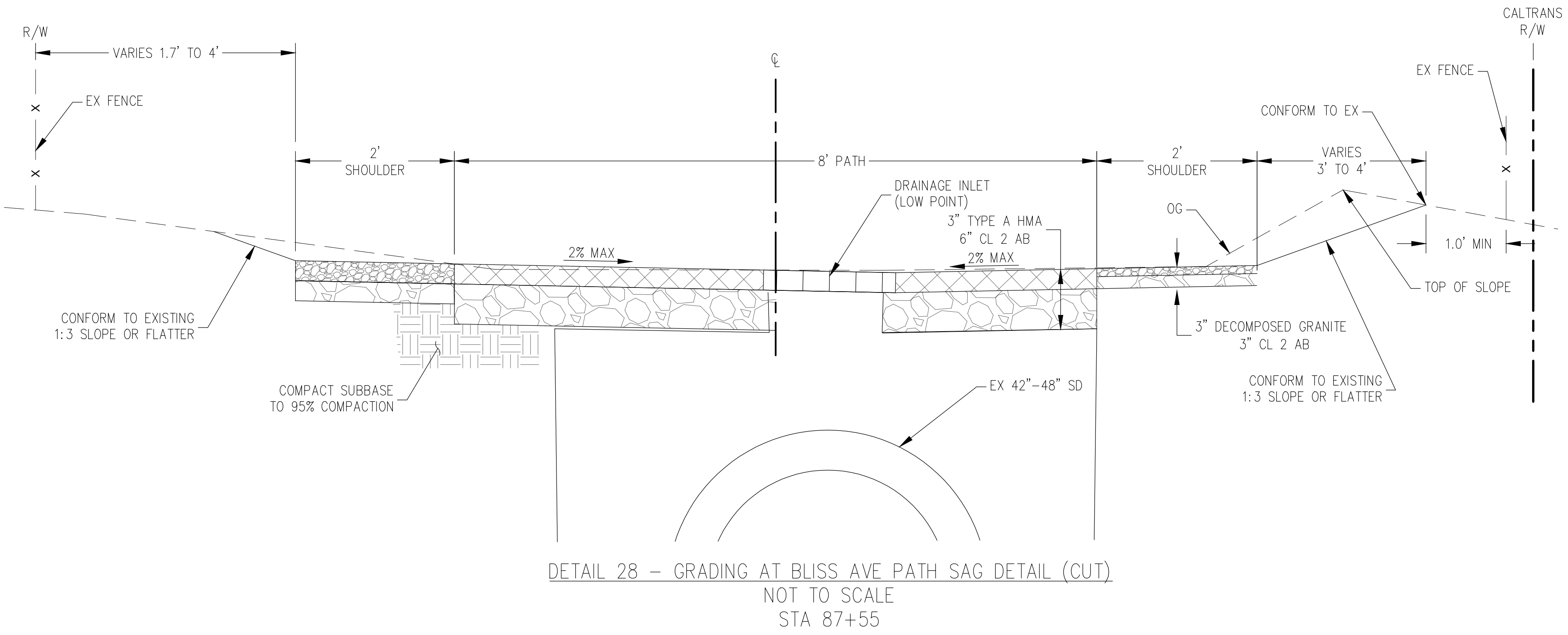
PLANS APPROVAL DATE _____

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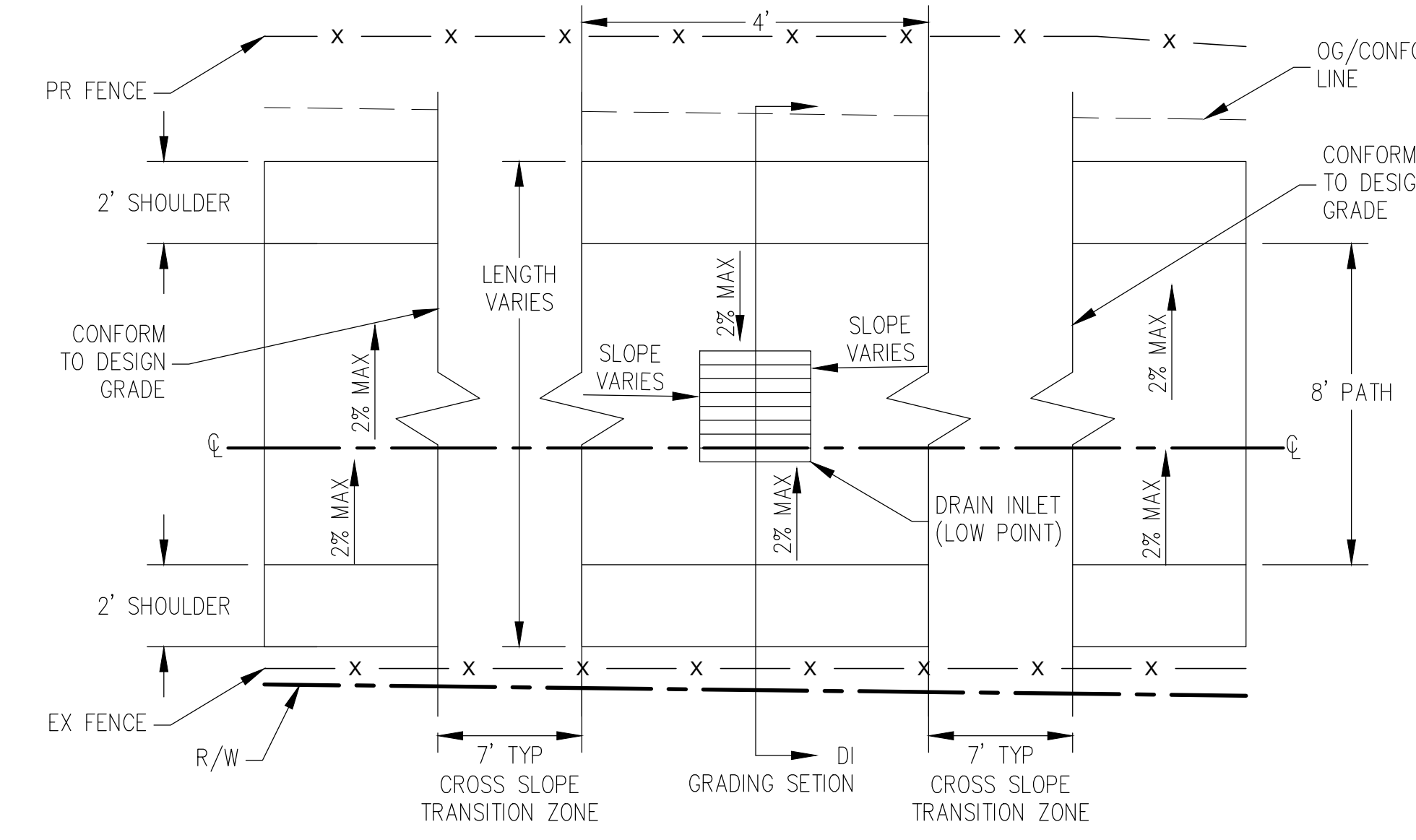


CITY OF PITTSBURG
65 CIVIC AVENUE
PITTSBURG, CA 94565

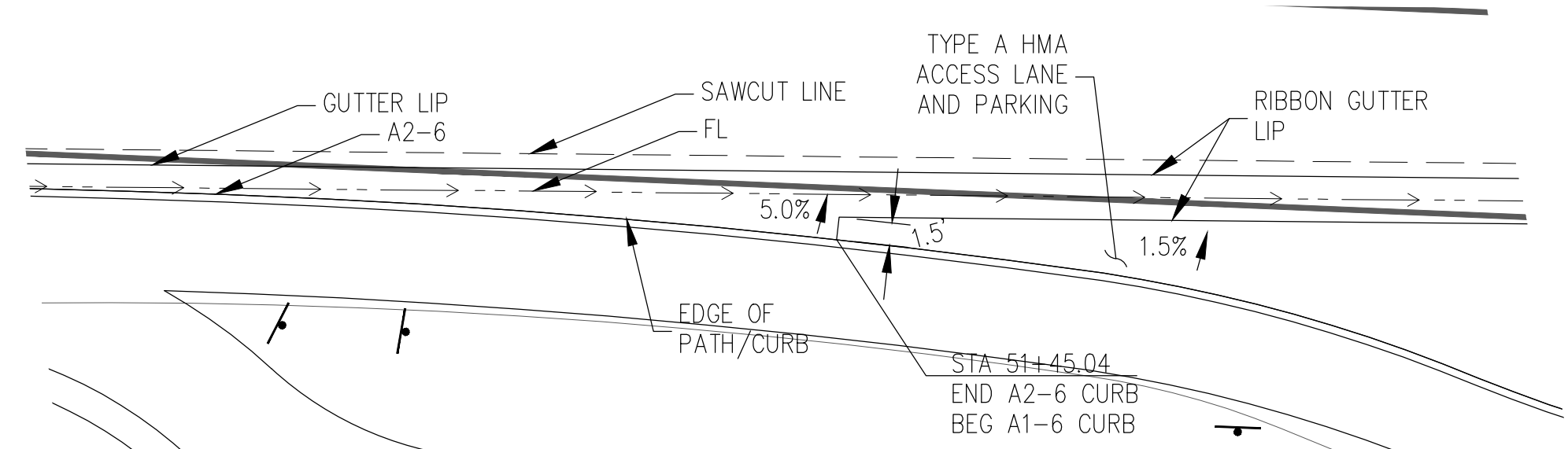
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR
 DESIGNED BY
 CHECKED BY
 REVISIONS:
 DATE 01/17/2023
 DATE 01/17/2023
 REVISIONS:
 DATE 01/17/2023
 DATE 01/17/2023



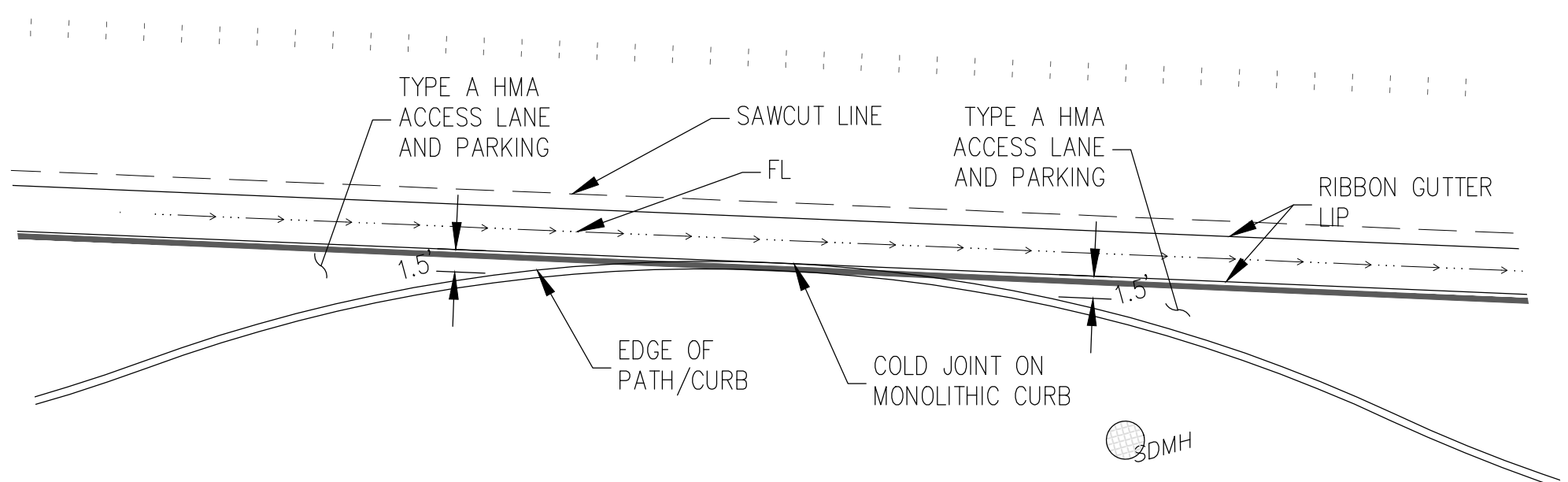
DETAIL 28 - GRADING AT BLISS AVE PATH SAG DETAIL (CUT)
NOT TO SCALE
STA 87+55



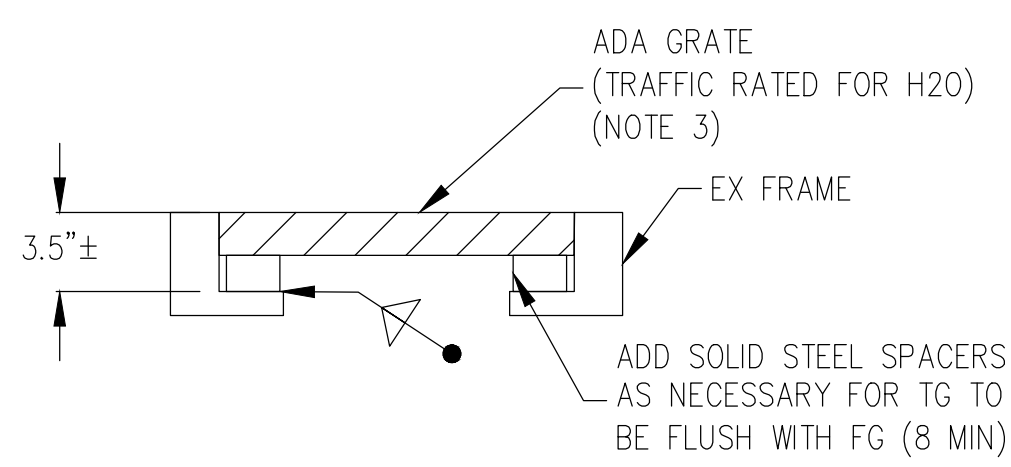
DETAIL 29 - DI GRADING PLAN
NOT TO SCALE
STA 87+55



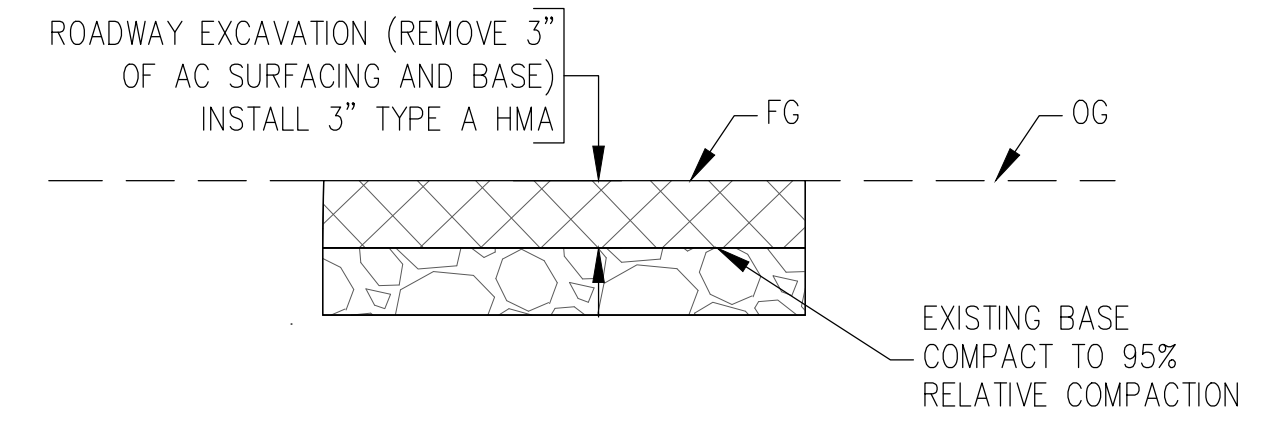
DETAIL 30 - A2-6 TO RIBBON GUTTER TRANSITION
NOT TO SCALE
STA 51+45, 67+34 (SIMILAR)



DETAIL 31 - RIBBON GUTTER ALONG CURB
NOT TO SCALE
STA 56+74, 62+71



DETAIL 33 - INSTALL ADA GRATE
NOT TO SCALE
STA 82+06, 84+67, 87+53, 87+88

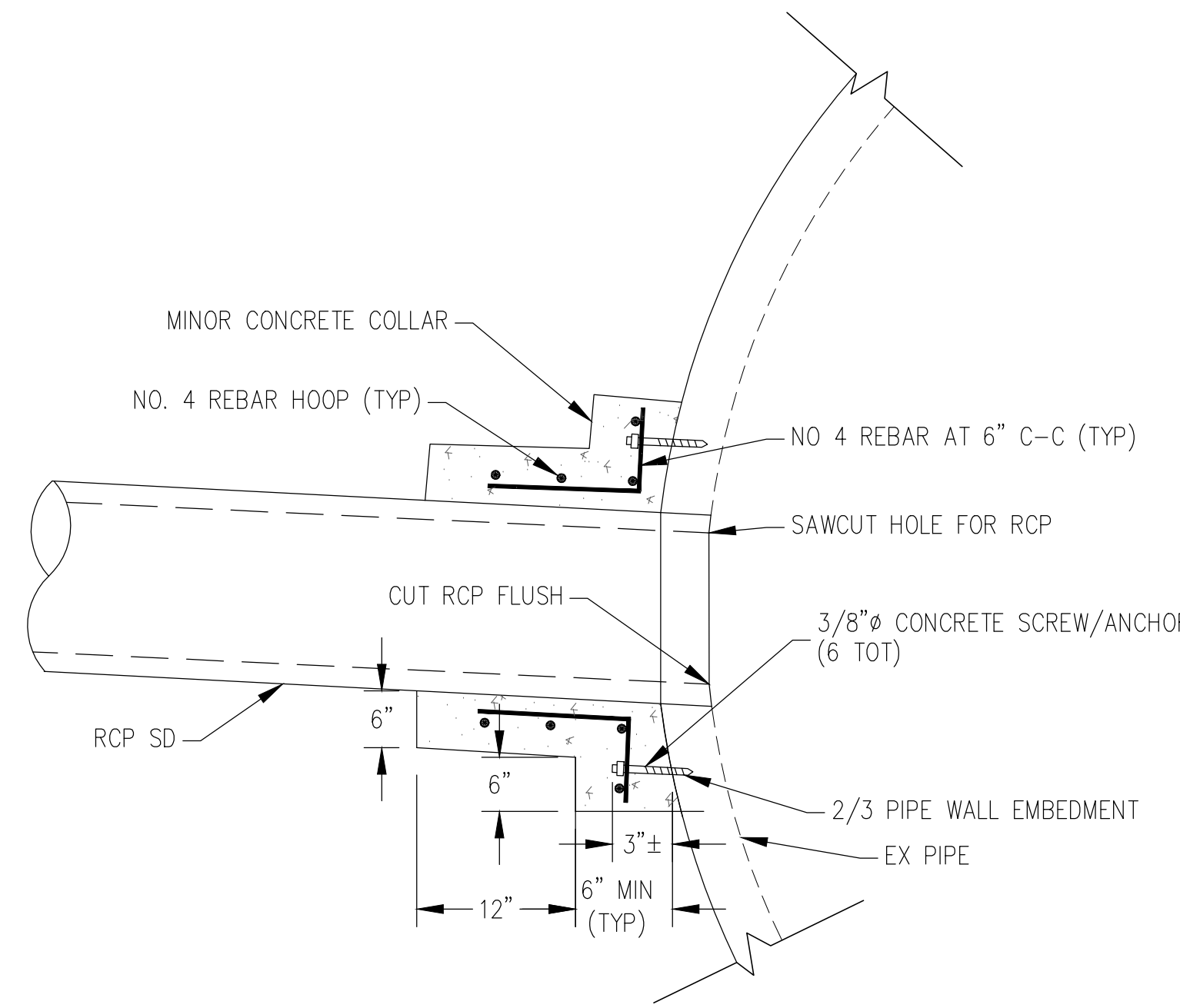


DETAIL 34 - RECONSTRUCT EX PATH SECTION
NOT TO SCALE
SHEET L-7

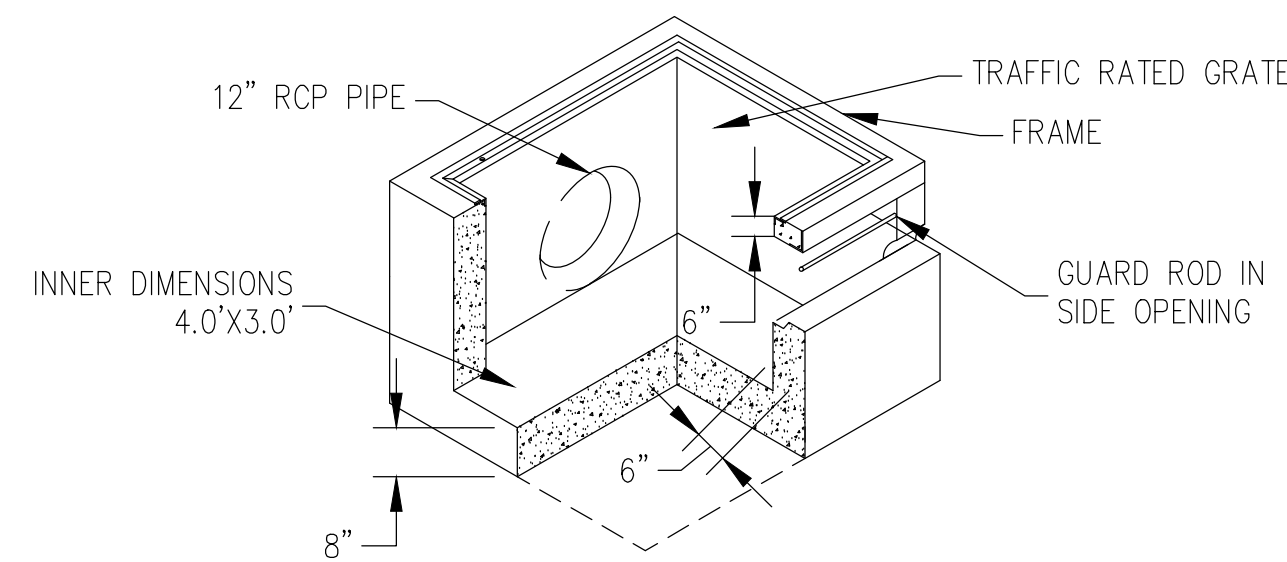
- NOTES:
- GRATE TO BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
 - CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
 - GRATE SHALL BE SECURED TO FRAME WITH TWO 3/8" BOLTS, RECESSED TO BE FLUSH WITH SURFACE.

GENERAL CONSTRUCTION DETAILS
C-7

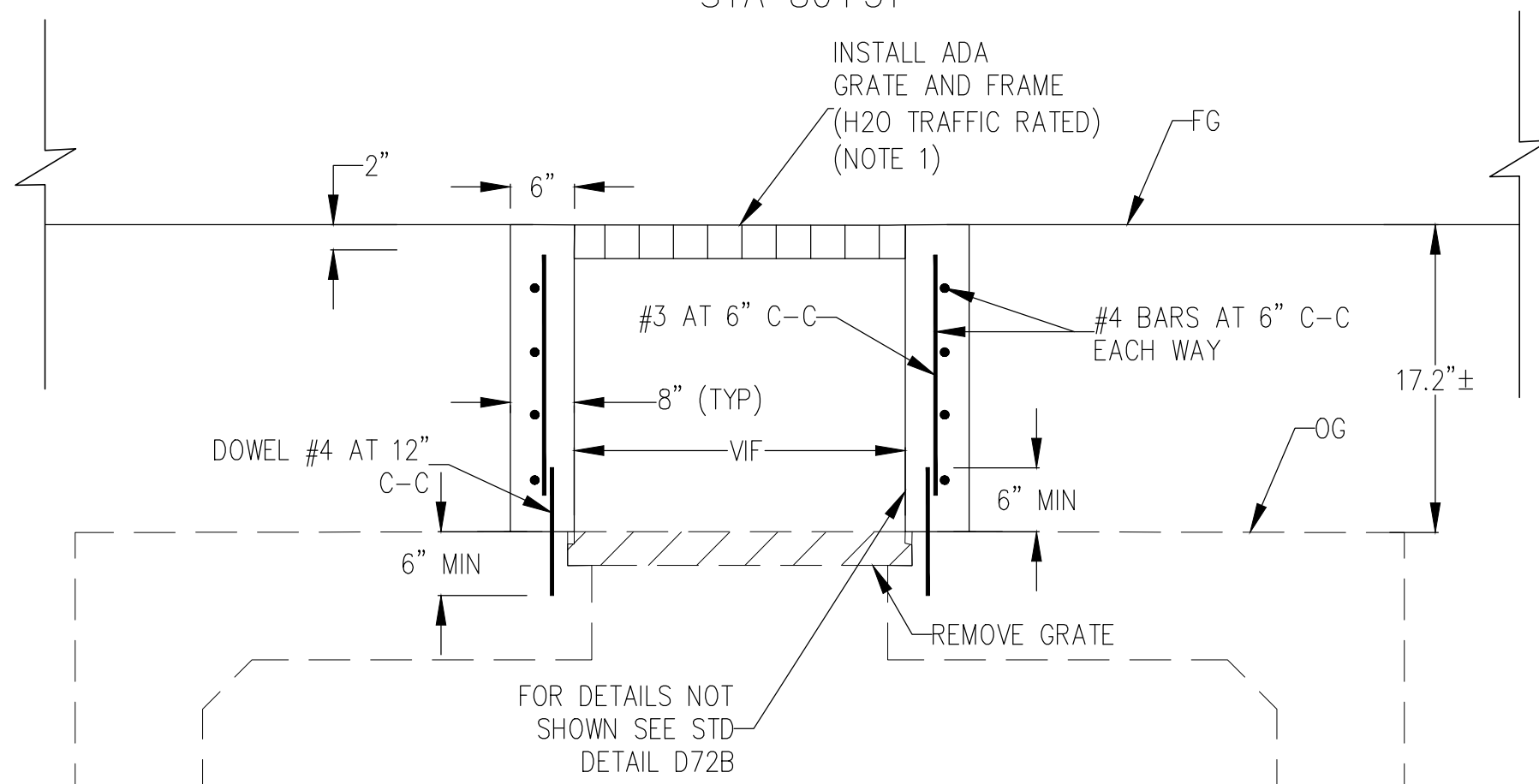
DATE PLOTTED => 01-17-23 TIME PLOTTED =>



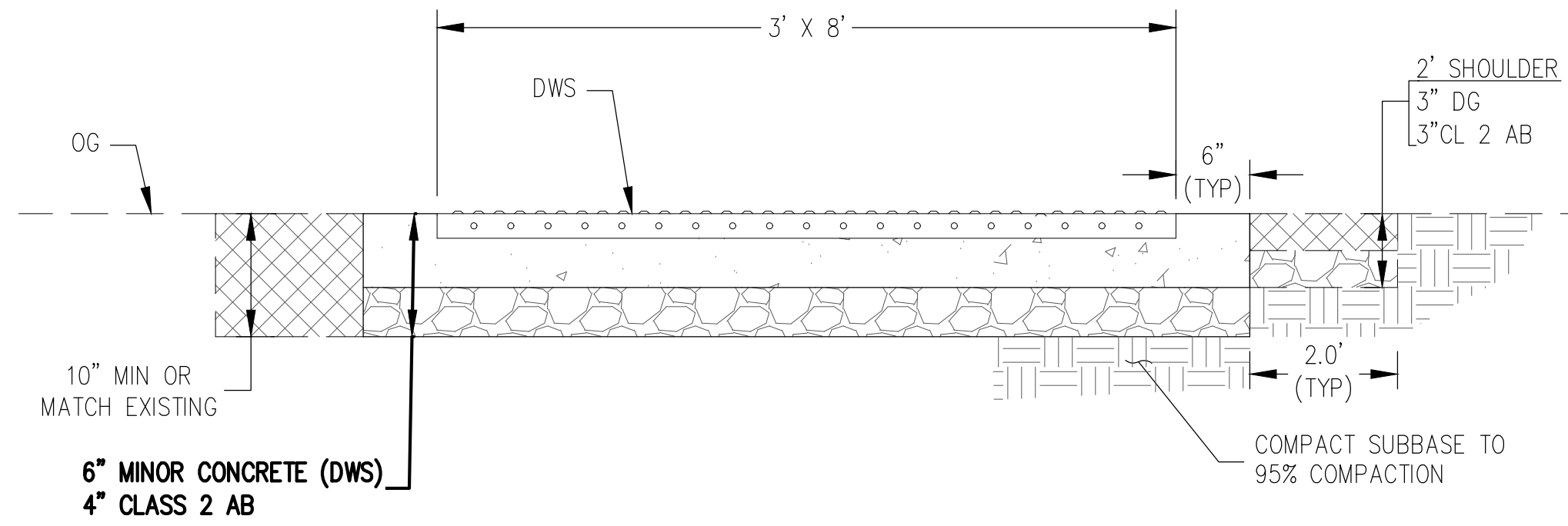
DETAIL 35 - BLIND CONNECTION
 NOT TO SCALE
 STA 89+50



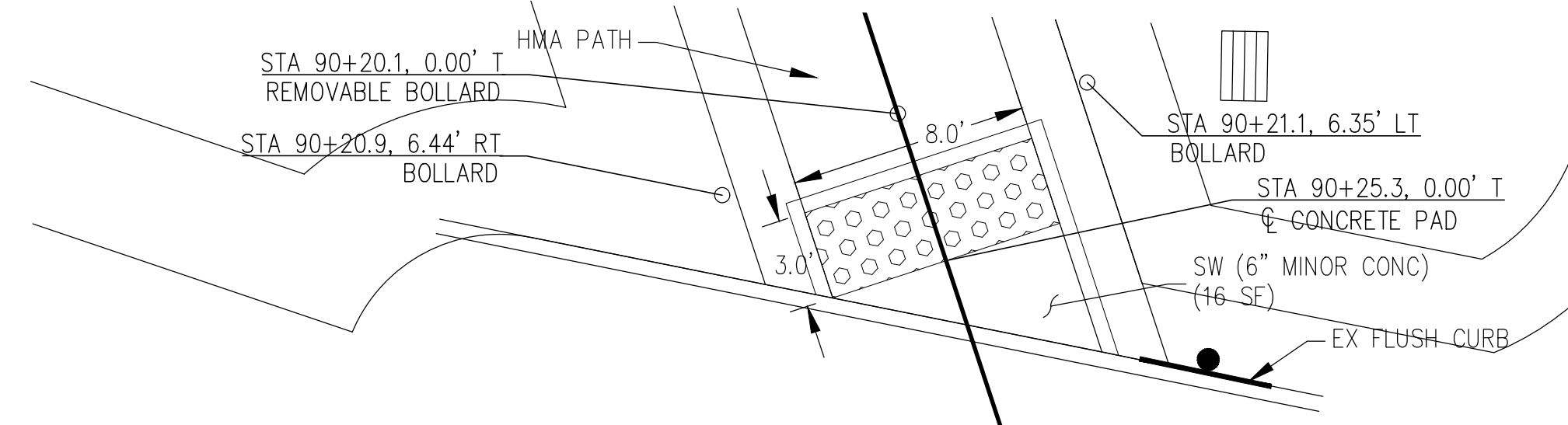
FOR DETAILS NOT SHOWN SEE STD DETAIL PLAN D72B
 DETAIL 38 - DI (TYPE G MODIFIED) SIDE OPENING
 NOT TO SCALE
 STA 80+51



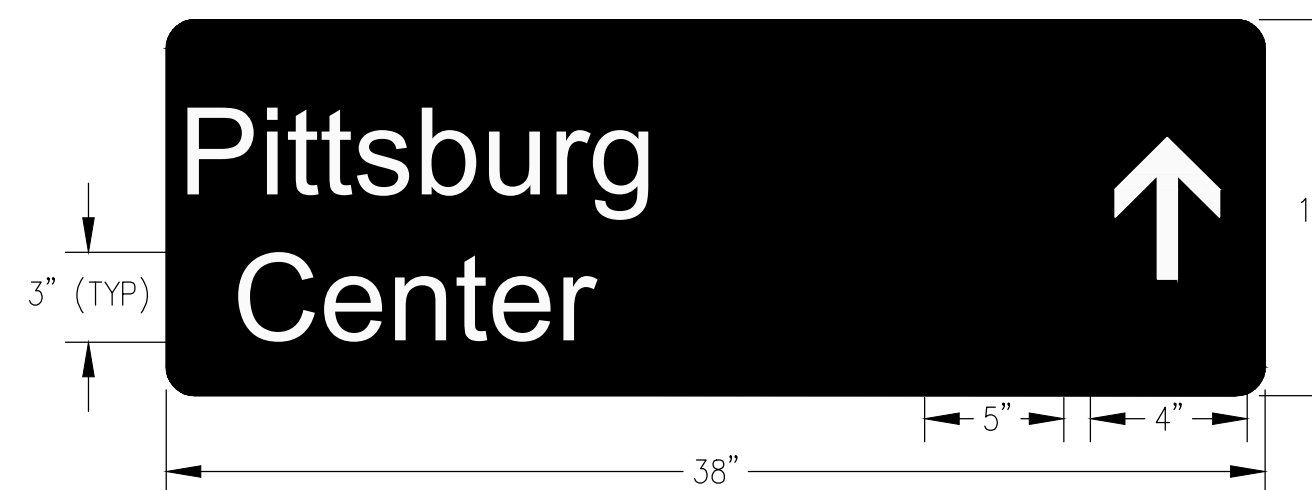
FOR DETAILS NOT SHOWN SEE STD DETAIL D72B
 DETAIL 40 - RECONSTRUCT DI TOP TO GRADE
 NOT TO SCALE
 STA 88+56



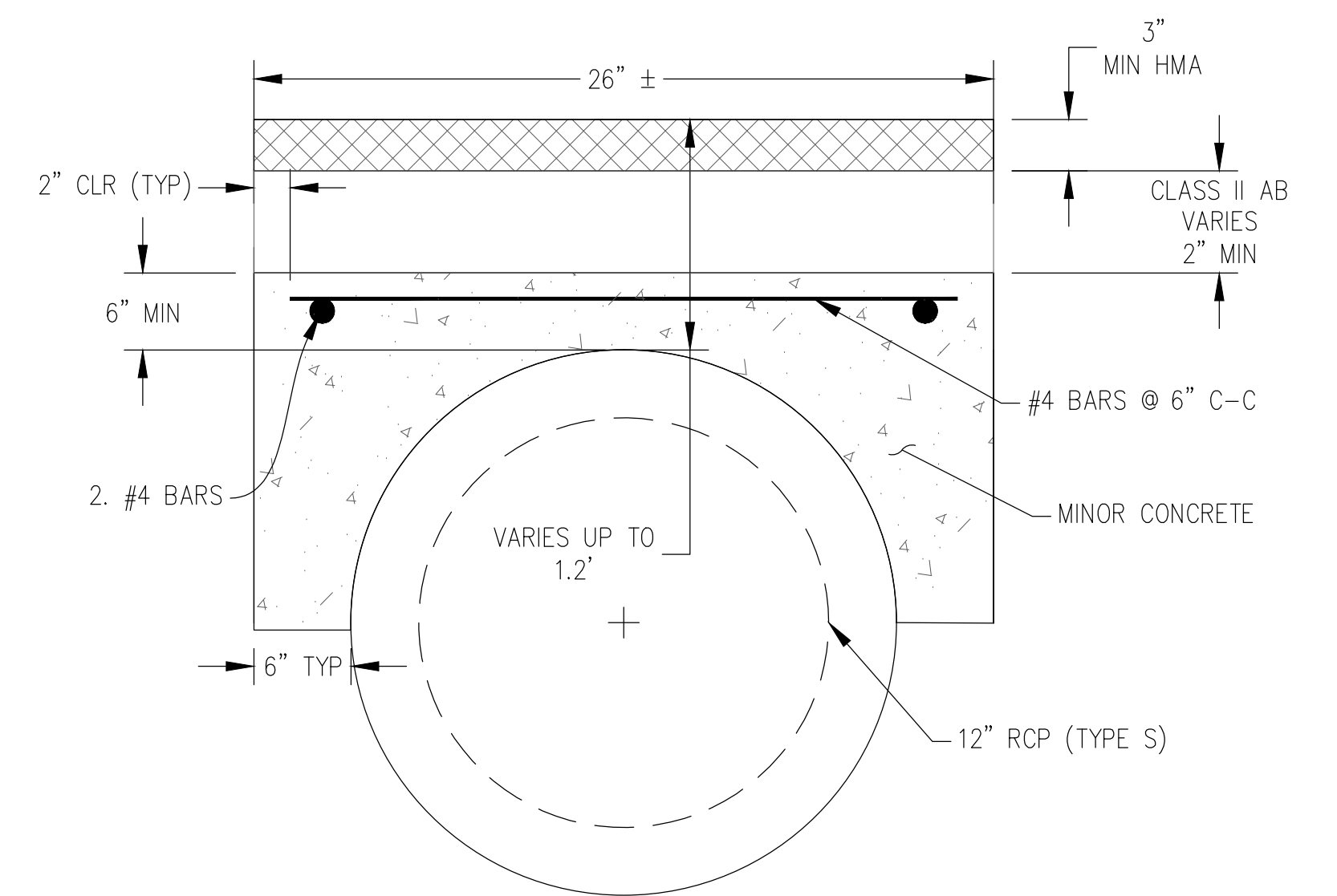
DETAIL 36 - DETECTABLE WARNING SURFACE AND CONCRETE PAD
 NOT TO SCALE
 STA 90+23



DETAIL 37 - DETECTABLE WARNING SURFACE AND CONCRETE PAD
 NOT TO SCALE
 STA. 90+23



DETAIL 41B - WAYFINDING SIGNAGE (BART)
 NOT TO SCALE
 STA 10+40 AND STA 90+31



DETAIL 42 - CONCRETE CAP
 NOT TO SCALE
 STA 80+94

NOTES:
 1. GRATE SHALL BE SECURED TO FRAME WITH TWO 3/8\"/>

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	30	79

JOHN SAMUELSON, CITY ENGINEER, CE 67734 DATE

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565

- NOTES:
1. SEE TYPICAL SECTIONS FOR PATHWAY AND ROADWAY SECTION STRUCTURAL SECTIONS.
 2. SEE DRAINAGE PLANS FOR DRAINAGE INLET, MH AND SD PIPE INVERT ELEVATIONS.
 3. SEE SHT C-6 FOR GRATED LINE DRAIN TO DRAINAGE INLET CONNECTION DETAIL.
 4. SEE TRAIL LIGHTING PLANS FOR LIGHTING LAYOUT AND DETAILS.
 5. SEE DRAINAGE PLAN SHEETS (D-1 TO D-4) FOR STORM DRAIN PROFILES AND DETAILS NOT SHOWN.

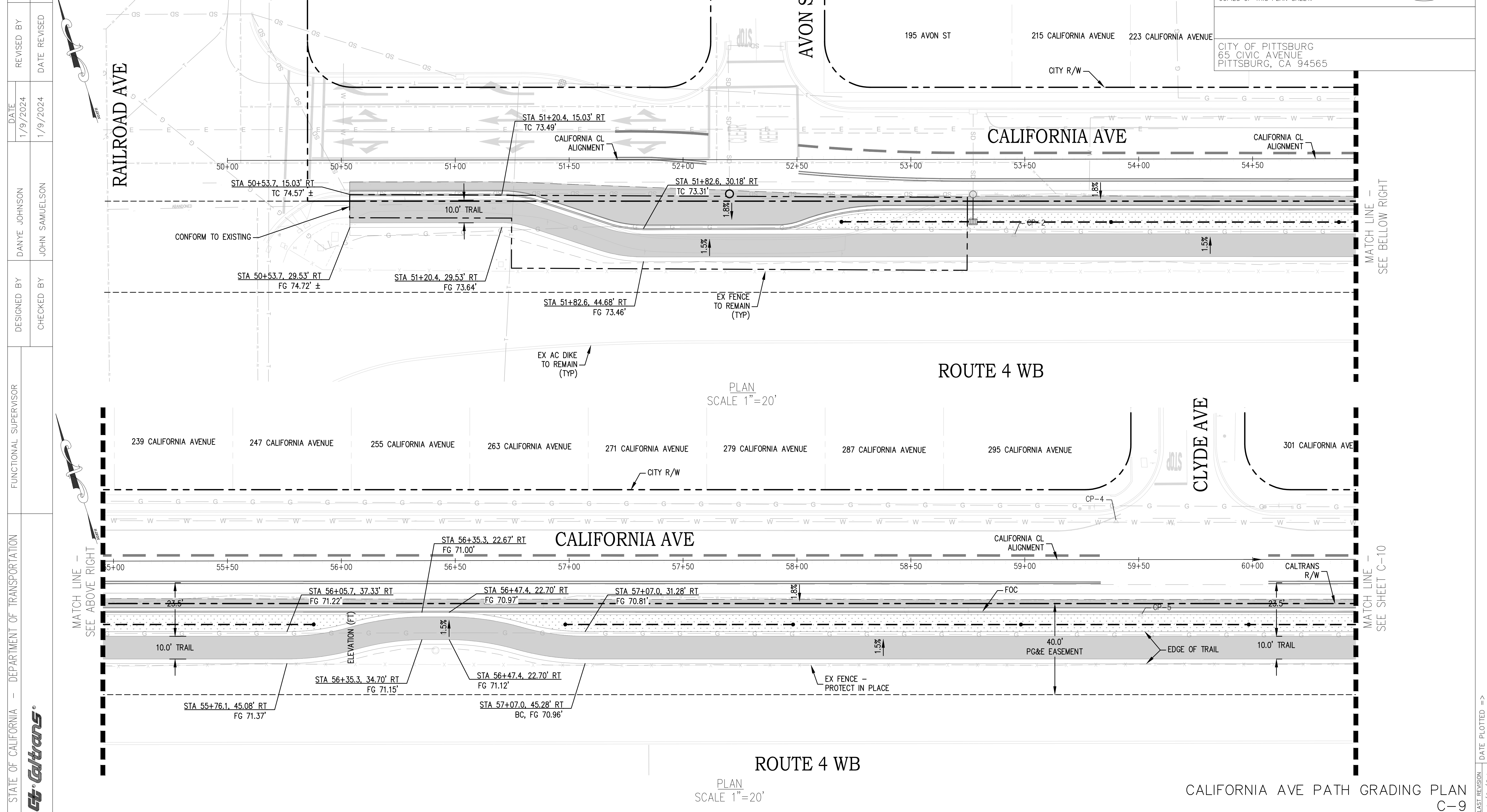
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	31	79

JOHN SAMUELSON, CITY ENGINEER, CE 67734 DATE _____

PLANS APPROVAL DATE _____

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CITY OF PITTSBURG
65 CIVIC AVENUE
PITTSBURG, CA 94565



PLAN SCALE 1"=20'

PLAN SCALE 1"=20'

ROUTE 4 WB

CALIFORNIA AVE PATH GRADING PLAN C-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Functional Supervisor: _____
 Designed By: DANYE JOHNSON
 Checked By: JOHN SAMUELSON
 Revised By: _____
 Date Revised: 1/9/2024

- NOTES:
1. SEE TYPICAL SECTIONS FOR PATHWAY AND ROADWAY SECTION STRUCTURAL SECTIONS.
 2. SEE DRAINAGE PLANS FOR DRAINAGE INLET, MH AND SD PIPE INVERT ELEVATIONS.
 3. SEE SHT C-6 FOR GRATED LINE DRAIN TO DRAINAGE INLET CONNECTION DETAIL.
 4. SEE TRAIL LIGHTING PLANS FOR LIGHTING LAYOUT AND DETAILS.
 5. SEE DRAINAGE PLAN SHEETS (D-1 TO D-4) FOR STORM DRAIN PROFILES AND DETAILS NOT SHOWN.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	32	79

JOHN SAMUELSON, CITY ENGINEER, CE 67734 DATE _____

PLANS APPROVAL DATE _____

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CITY OF PITTSBURG
65 CIVIC AVENUE
PITTSBURG, CA 94565

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

FUNCTIONAL SUPERVISOR

DESIGNED BY DANYE JOHNSON

CHECKED BY JOHN SAMUELSON

DATE 1/9/2024

REVISED BY DATE

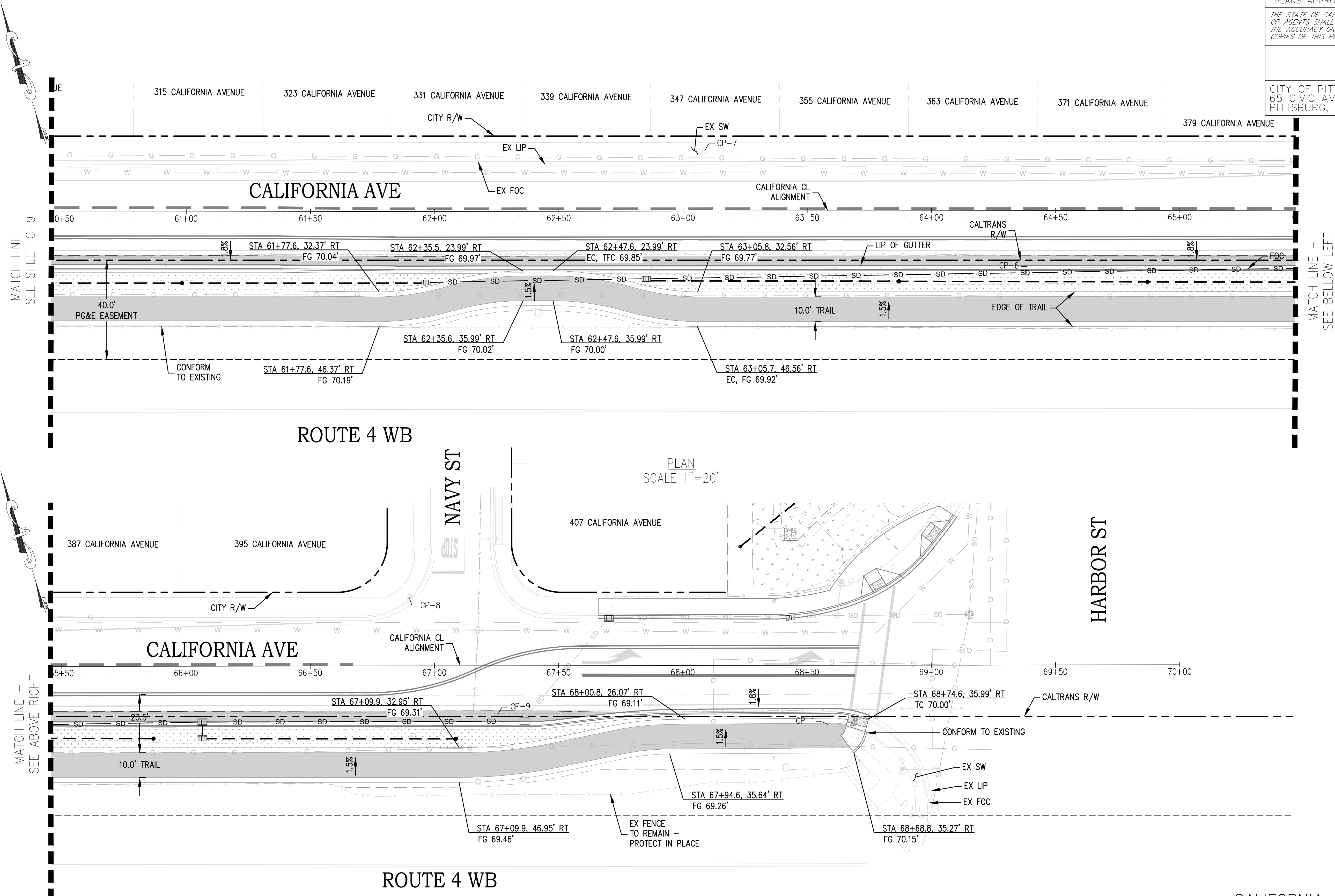
1/9/2024

1/9/2024

BORDER LAST REVISED 8/1/2010

USERNAME => FRANCISCO

DWG FILE => 31_bpbc_grad.dwg



PLAN SCALE 1"=20'

CALIFORNIA AVE PATH GRADING PLAN C-10

DATE PLOTTED => 1/9/24 TIME PLOTTED =>

- NOTES:
 1. SEE LAYOUT SHEETS FOR GRATED LINE DRAIN INFORMATION.
 2. SAWCUT EXISTING STORM DRAIN PIPE, INSTALL DI (TYPE G1) PRECAST INLET ON CAST-IN-PLACE BASE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	33	79

JOHN SAMUELSON, CITY ENGINEER, CE 67734 DATE _____

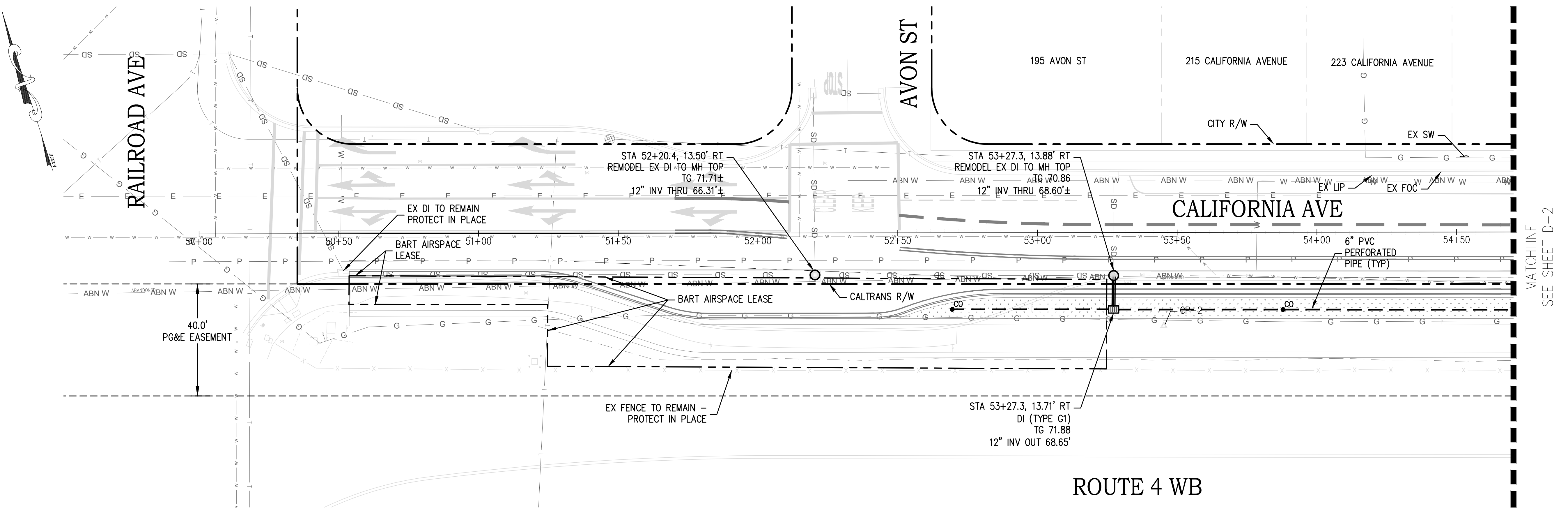
PLANS APPROVAL DATE _____

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



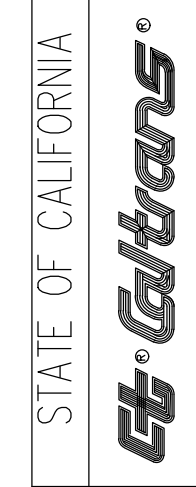
CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565

DESIGNED BY DANYE JOHNSON	REVISOR BY DATE
CHECKED BY JOHN SAMUELSON	DATE 1/9/2024
FUNCTIONAL SUPERVISOR	DATE 1/9/2024
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	



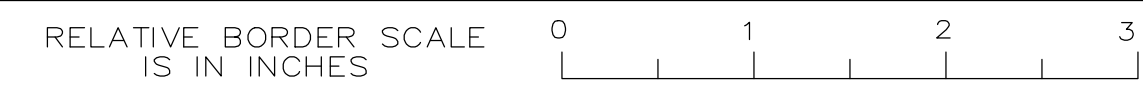
PLAN
 SCALE 1"=20'

MATCHLINE
 SEE SHEET D-2



BORDER LAST REVISED 8/1/2010

USERNAME => FRANCISCO
 DWG FILE => 33_bpbc_util.dwg



UNIT

PROJECT NUMBER & PHASE 0421000238

EA 2W580

CALIFORNIA AVE DRAINAGE PLAN
 D-1

LAST REVISION 1/9/24
 DATE PLOTTED =>
 TIME PLOTTED =>

- NOTES:
 1. SEE LAYOUT SHEETS FOR GRATED LINE DRAIN INFORMATION.
 2. SHALLOW TRENCH BACKFILL AND STANDARD TRENCH BACKFILL PER COUNTY OF CONTRA COSTA PUBLIC WORKS DEPARTMENT STORM DRAIN TRENCH DETAIL CD01.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	34	79

JOHN SAMUELSON, CITY ENGINEER, CE 67734 DATE _____

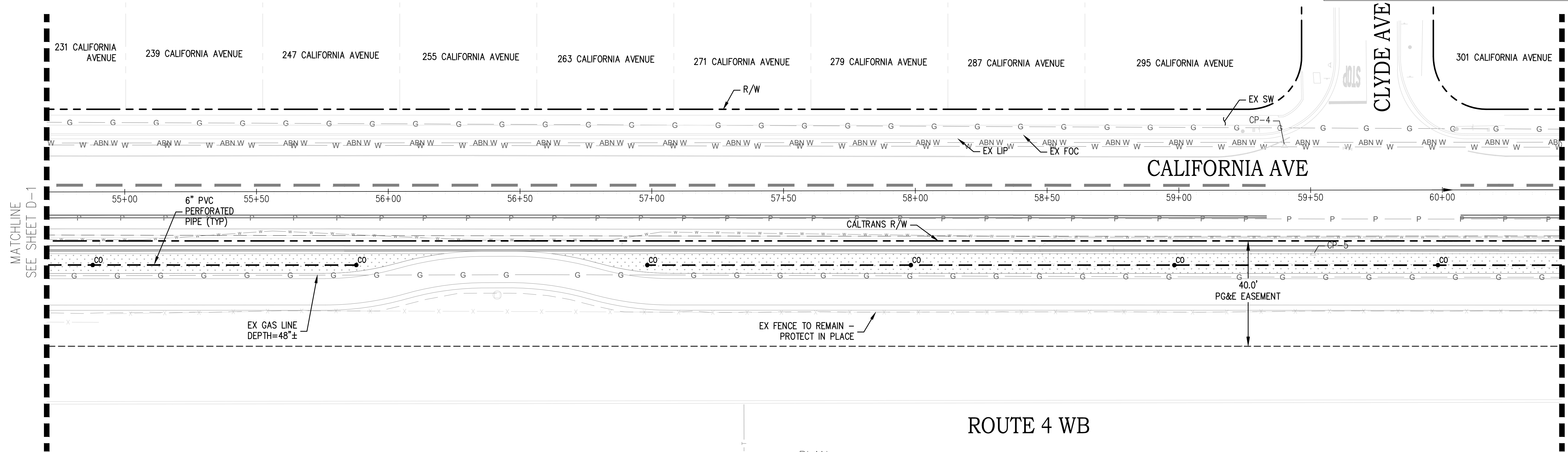
PLANS APPROVAL DATE _____

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CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565

DATE	REVISION	BY	DATE
1/9/2024		DANYE JOHNSON	
1/9/2024		JOHN SAMUELSON	



ROUTE 4 WB

PLAN
 SCALE 1"=20'



NOTES:
 1. SEE LAYOUT SHEETS FOR GRATED LINE DRAIN INFORMATION.
 2. SHALLOW TRENCH BACKFILL AND STANDARD TRENCH BACKFILL PER COUNTY OF CONTRA COSTA PUBLIC WORKS DEPARTMENT STORM DRAIN TRENCH DETAIL CD01.

DIST	COUNTY	ROUTE	TOTAL PROJECT	No.	SHEETS
04	CC	04	23.0-23.4	35	79

JOHN SAMUELSON, CITY ENGINEER, CE 67734 DATE _____

PLANS APPROVAL DATE _____

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CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



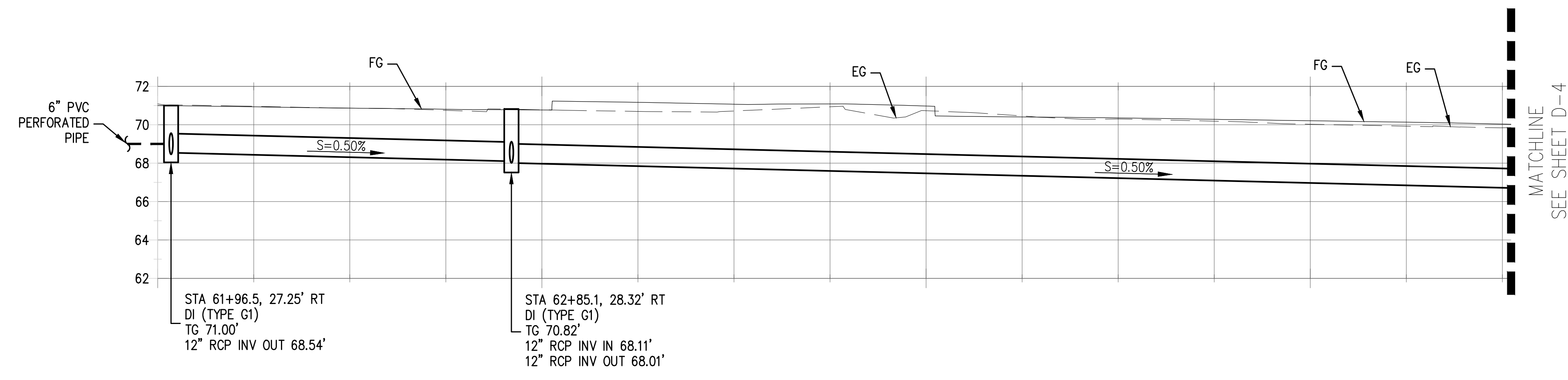
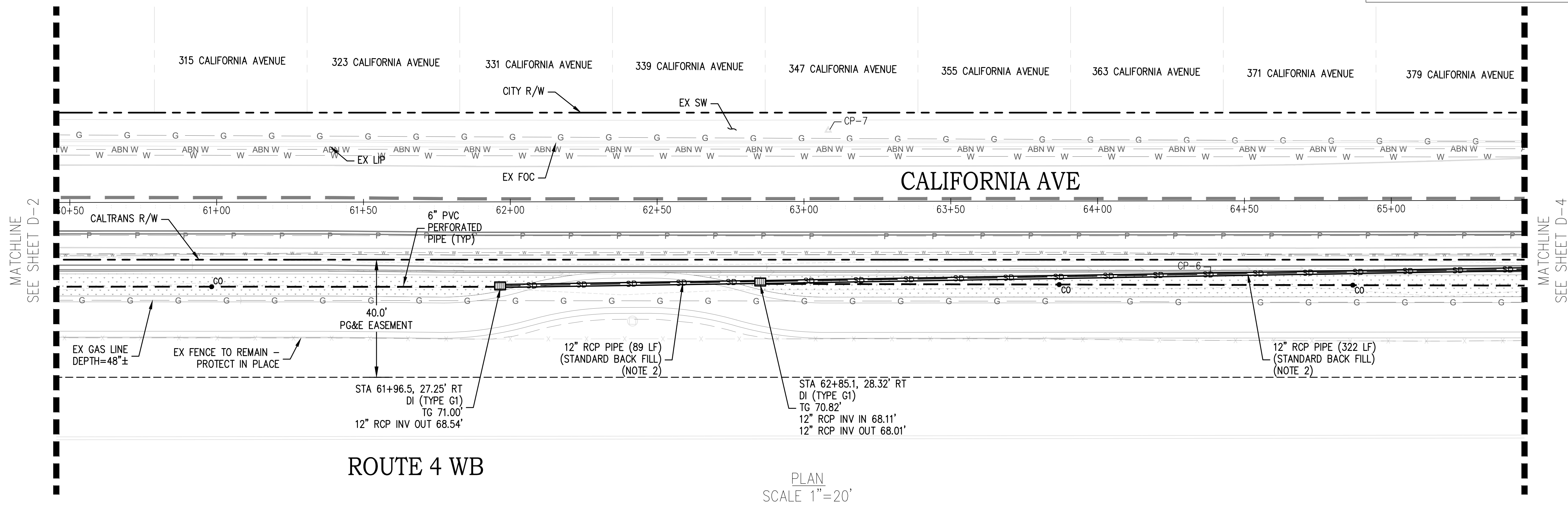
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

FUNCTIONAL SUPERVISOR

DESIGNED BY: DANYE JOHNSON
 CHECKED BY: JOHN SAMUELSON

REVISOR: DANYE JOHNSON
 DATE: 1/9/2024

REVISOR: JOHN SAMUELSON
 DATE: 1/9/2024



NOTES:
 1. SEE LAYOUT SHEETS FOR GRATED LINE DRAIN INFORMATION.
 2. SHALLOW TRENCH BACKFILL AND STANDARD TRENCH BACKFILL PER COUNTY OF CONTRA COSTA PUBLIC WORKS DEPARTMENT STORM DRAIN TRENCH DETAIL CD01.

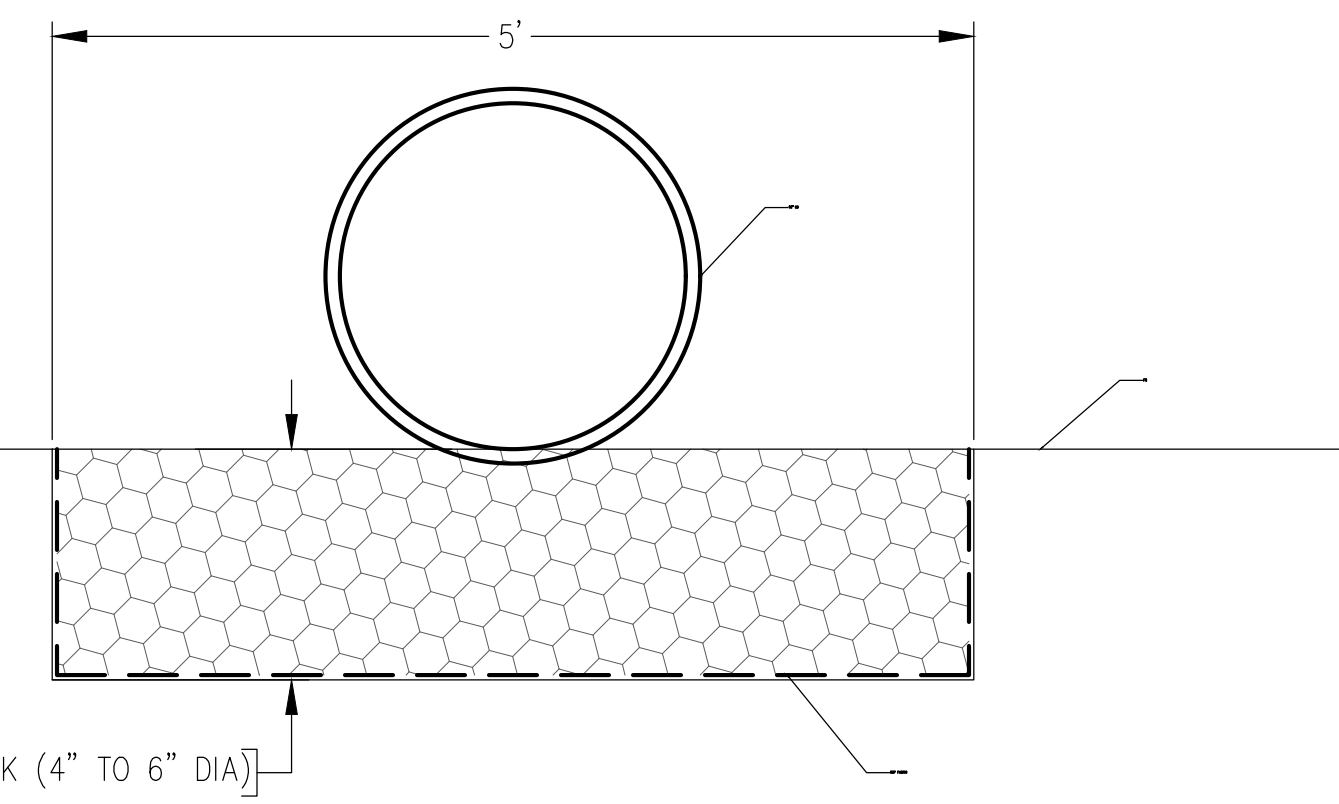
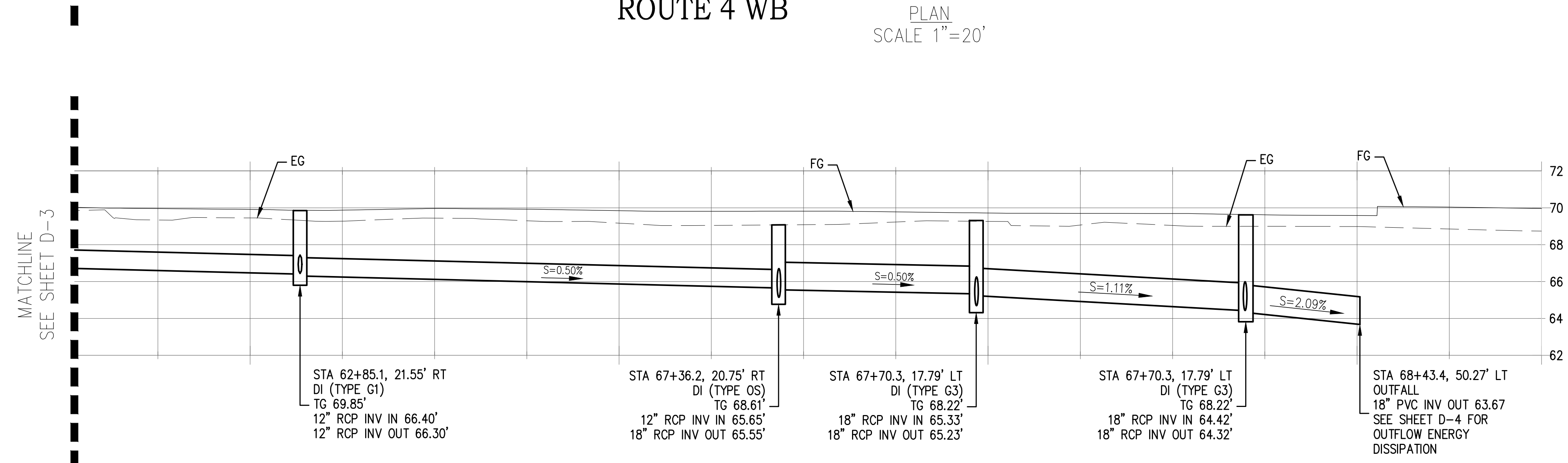
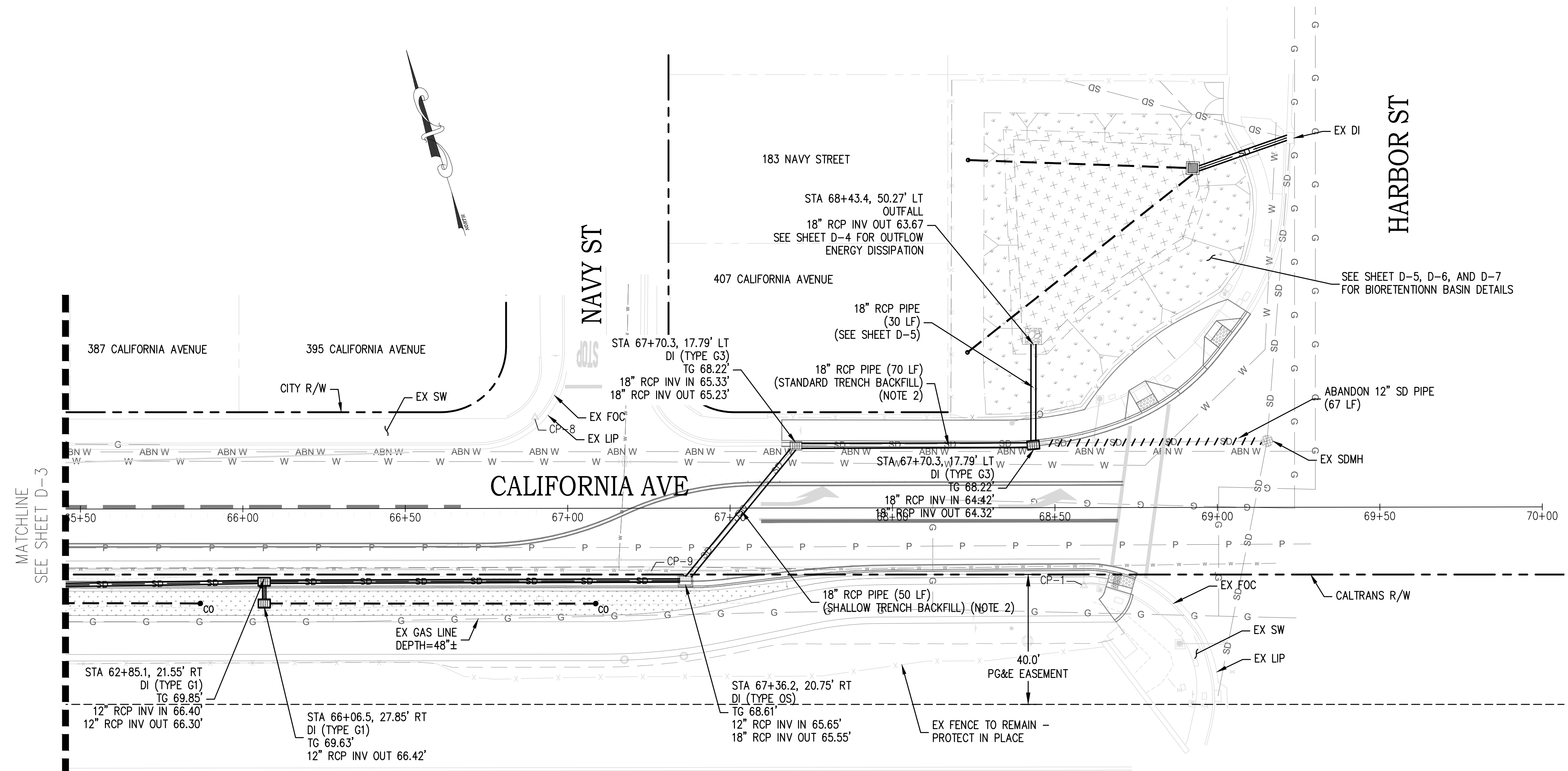
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	36	79

JOHN SAMUELSON, CITY ENGINEER, CE 67734 DATE _____
 PLANS APPROVAL DATE _____
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565

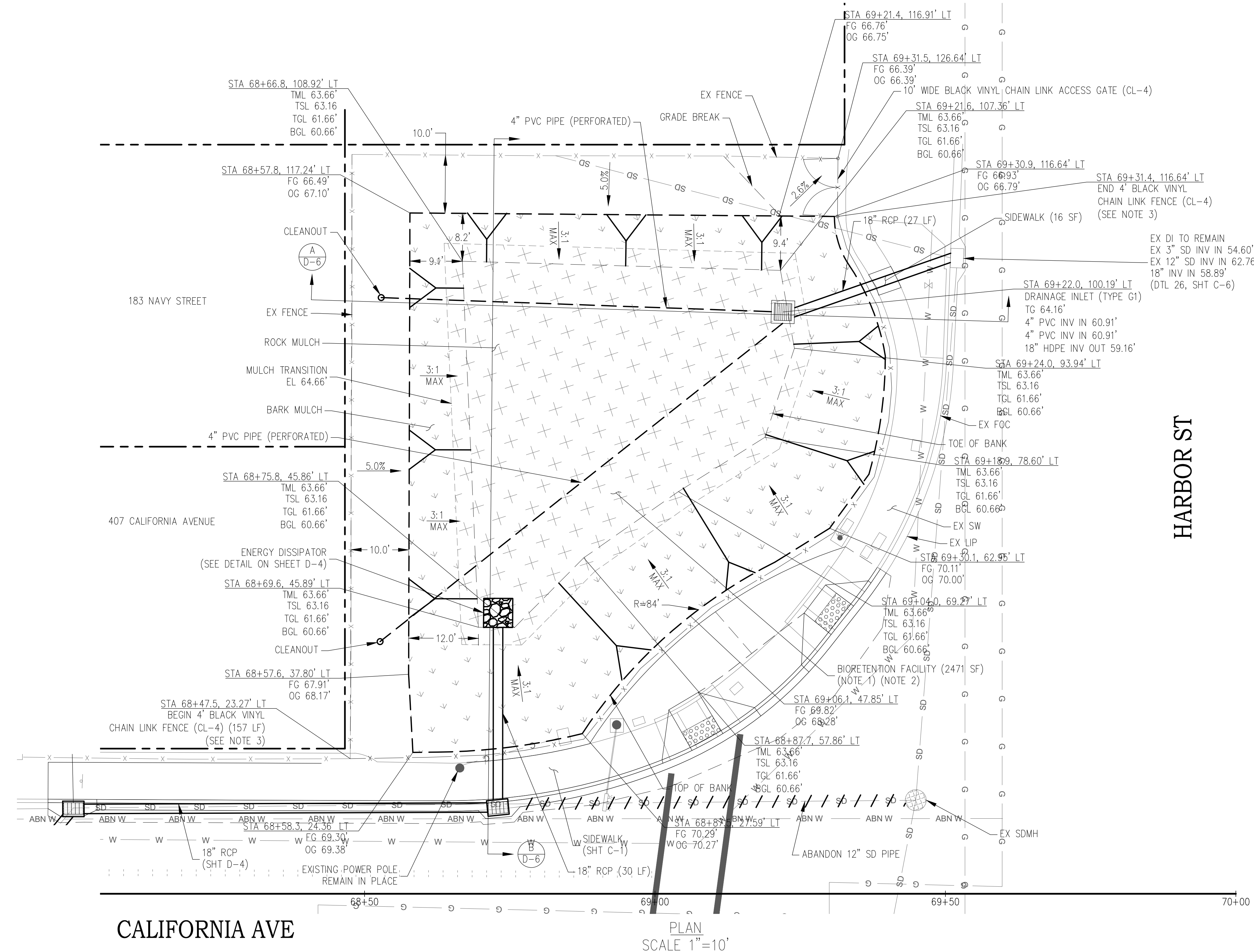
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans
 FUNCTIONAL SUPERVISOR
 DESIGNED BY DANYE JOHNSON
 CHECKED BY JOHN SAMUELSON
 REVISED BY DATE
 1/9/2024
 1/9/2024



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	37	79

REGISTERED CIVIL ENGINEER
 DATE 01-17-23
 RANDALL T. HARRISON
 No. C46646
 Exp. 06/30/2023
 CIVIL
 STATE OF CALIFORNIA

HARRISON ENGINEERING INC.
 1987 BONIFACIO STREET
 CONCORD, CA 94520
 CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



LEGEND:

ROCK MULCH

BARK MULCH

ABBREVIATIONS:
 TML TOP OF MULCH LAYER
 TSL TOP OF SOIL LAYER
 TGL TOP OF CL 2 PERM MTL LAYER
 BGL BOTTOM OF CL 2 PERM MTL LAYER

NOTES:
 1. GRADES SHALL BE CONSISTENT (FLAT) THROUGHOUT THE FACILITY.
 2. SEE LANDSCAPING PLAN FOR PLANTING DETAILS.
 3. SEE CALTRANS STANDARD DETAILS A85 AND A85A FOR CHAIN LINK FENCE AND GATE DETAILS

HARBOR ST

CALIFORNIA AVE

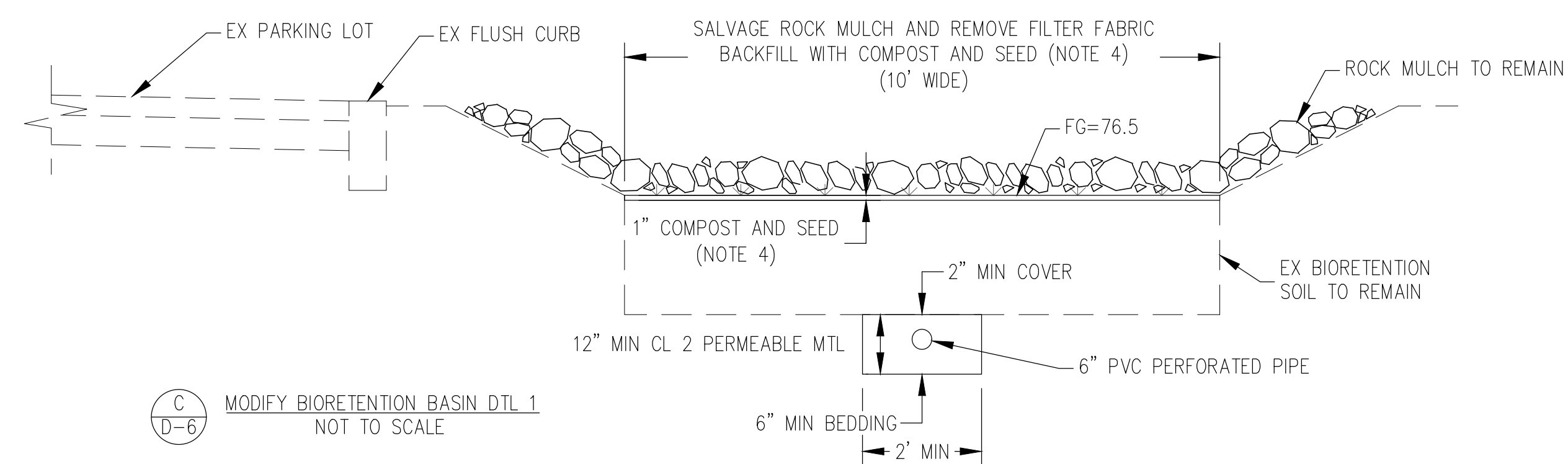
PLAN
 SCALE 1"=10'

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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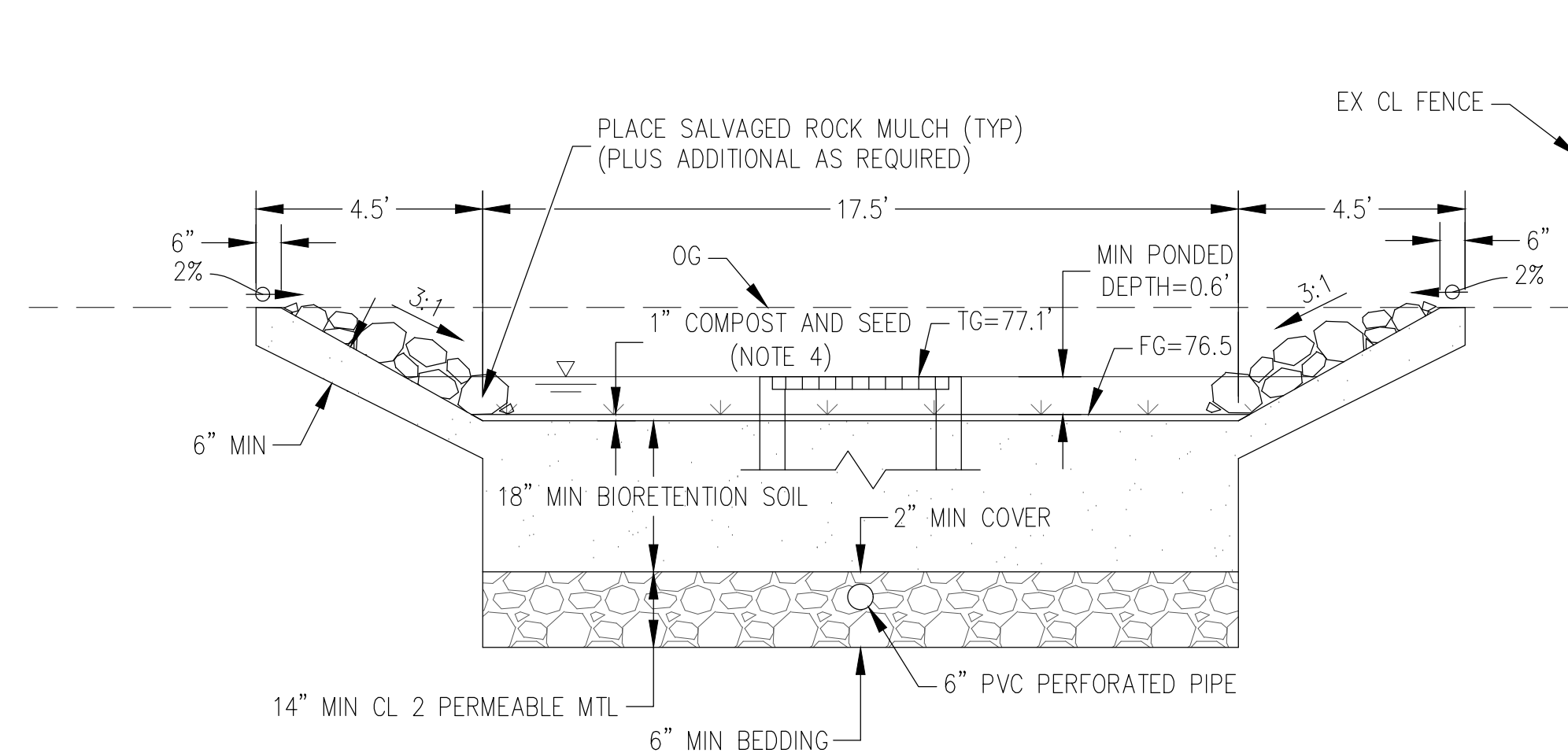
01-17-23
 REGISTERED CIVIL ENGINEER DATE
 RANDALL T. HARRISON
 No. C46646
 Exp. 06/30/2023
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.
 HARRISON ENGINEERING INC.
 1987 BONIFACIO STREET
 CONCORD, CA 94520
 CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565

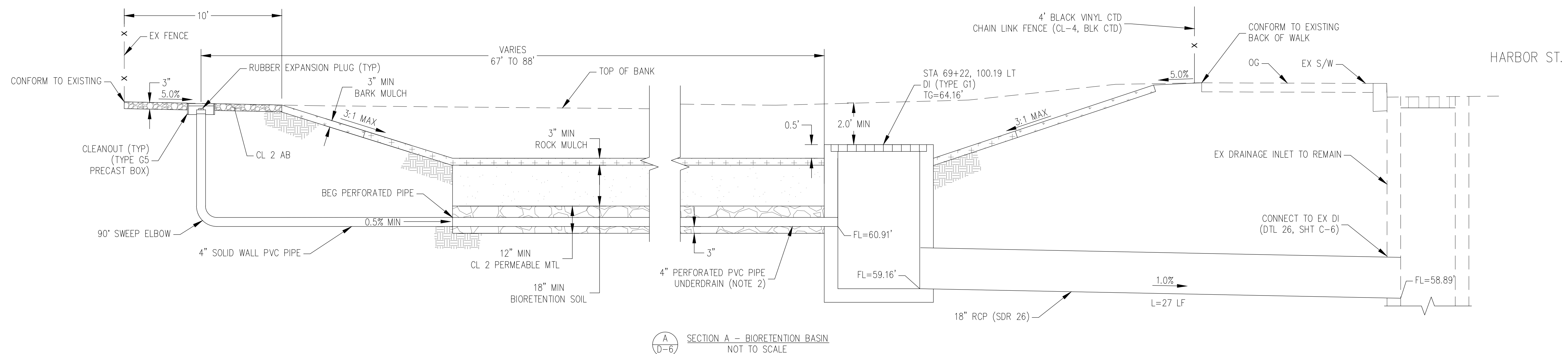
- NOTES:
- SEE PLANTING AND IRRIGATION PLANS FOR LANDSCAPING AND MULCH DETAIL.
 - PERFORATIONS SHALL BE FACING DOWNWARDS.
 - SEE SHT D-5 FOR BIORETENTION ELEVATIONS.
 - AT MODIFY BIORETENTION BASIN, APPLY RICE STRAW COVER OVER SEEDED AREAS AT RATE OF 4 TONS PER ACRE.



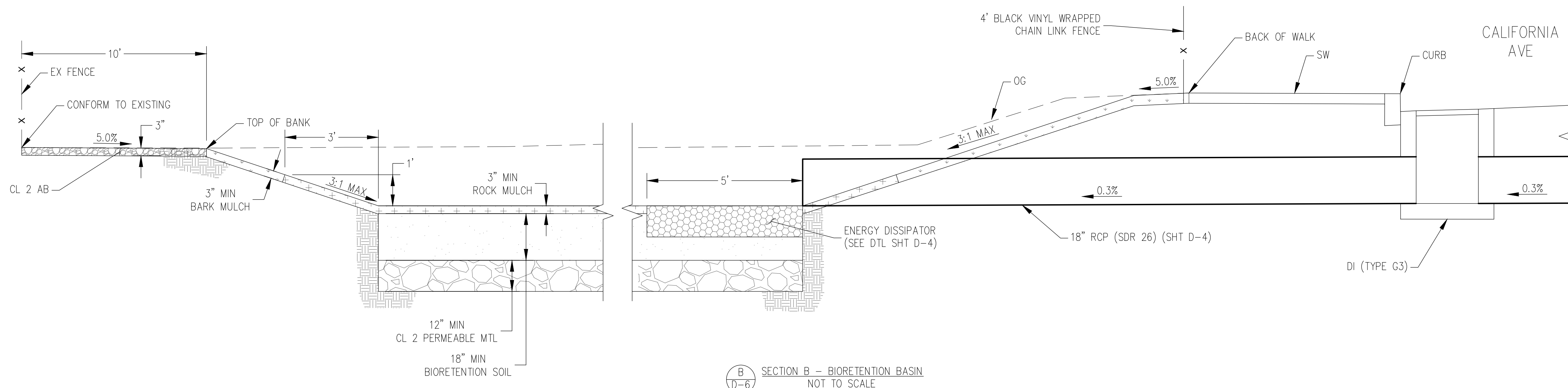
C
D-6 MODIFY BIORETENTION BASIN DTL 1
NOT TO SCALE



D
D-6 MODIFY BIORETENTION BASIN DTL 2
NOT TO SCALE



A
D-6 SECTION A - BIORETENTION BASIN
NOT TO SCALE



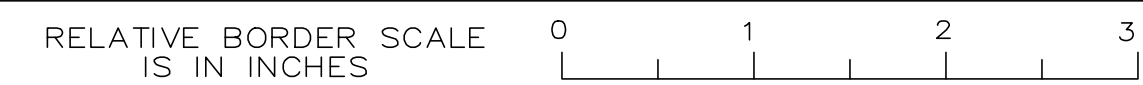
B
D-6 SECTION B - BIORETENTION BASIN
NOT TO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Functional Supervisor
 DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE
 DATE REVISION
 DATE REVISION
 01/17/2023
 01/17/2023



BORDER LAST REVISED 8/1/2010

USERNAME => FRANCISCO
DWG FILE => 38-bpbc-d-6-d-7.dwg



UNIT PROJECT NUMBER & PHASE 042100238 EA 2W580

BIORETENTION BASIN
 TYPICAL SECTIONS
 D-6

LAST REVISION
 DATE PLOTTED =>
 01-17-23
 TIME PLOTTED =>

- NOTES:
1. THE STRUCTURAL SECTION SHALL MATCH EXISTING PAVEMENT SECTION OR BE 3" TYPE A HMA ON 10" CL 2 AB, WHICHEVER IS GREATER.
 2. PERFORATIONS SHALL BE FACING DOWNWARDS.
 3. FOR DRAINAGE INLET (TYPE G1 MODIFIED AND G5 MODIFIED) DETAILS NOT SHOWN, SEE STATE STD PLANS D73B, D73C, D73F, AND D73G.
 4. BLIND PIPE CONNECTIONS SHALL BE CUT FLUSH WITH THE EX CONNECTING PIPE.
 5. EXISTING SD PIPES SHALL BE CUT FLUSH WITH INNER WALL OF NEW DRAINAGE INLET.
 6. CONTRACTOR SHALL VERIFY DEPTH OF IRRIGATION SUPPLY LINE AND CONDUCTORS BY HAND DIGGING TO VERIFY CLEARANCE TO STORM DRAIN AND STRUCTURAL PAVEMENT SECTION.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	39	79

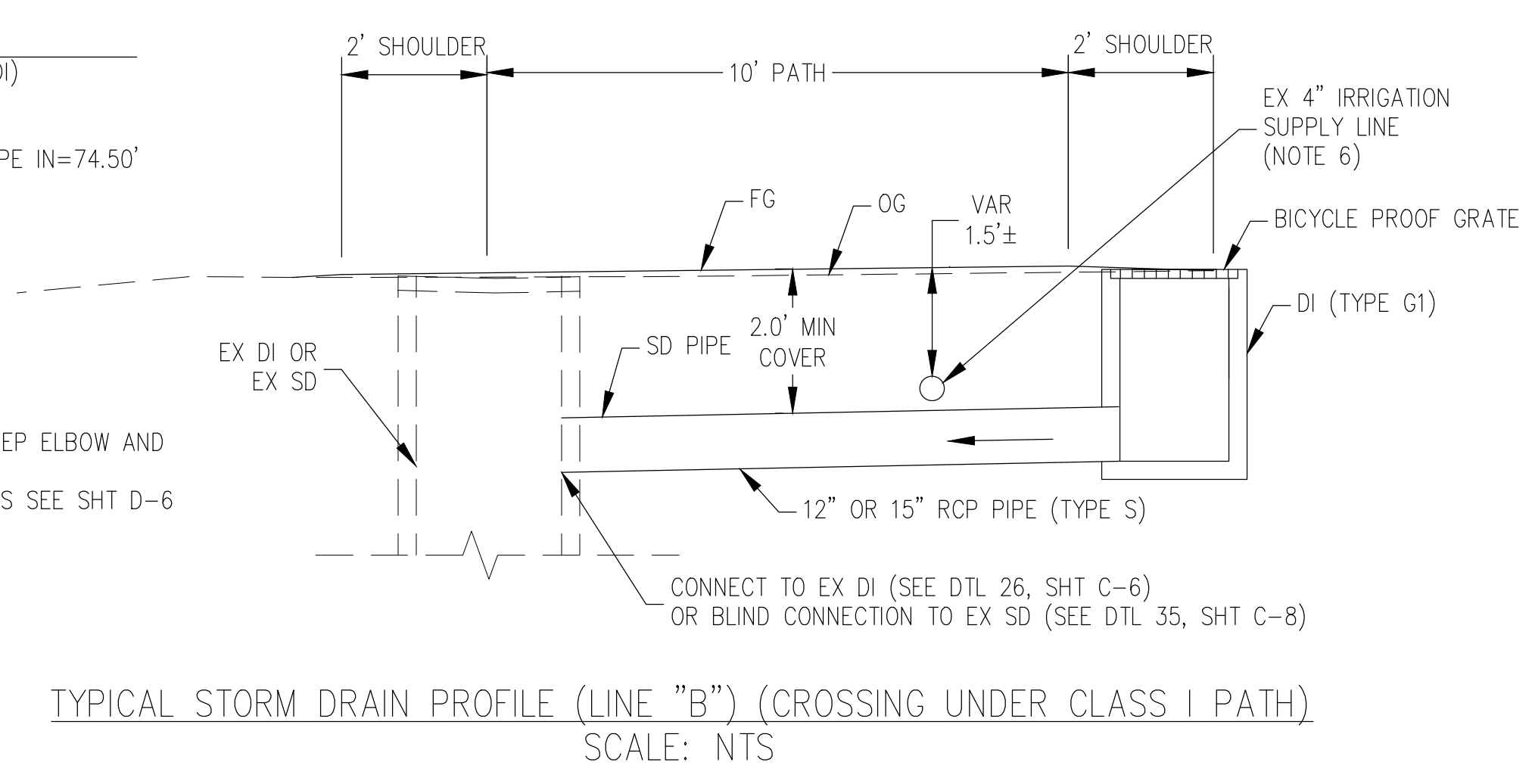
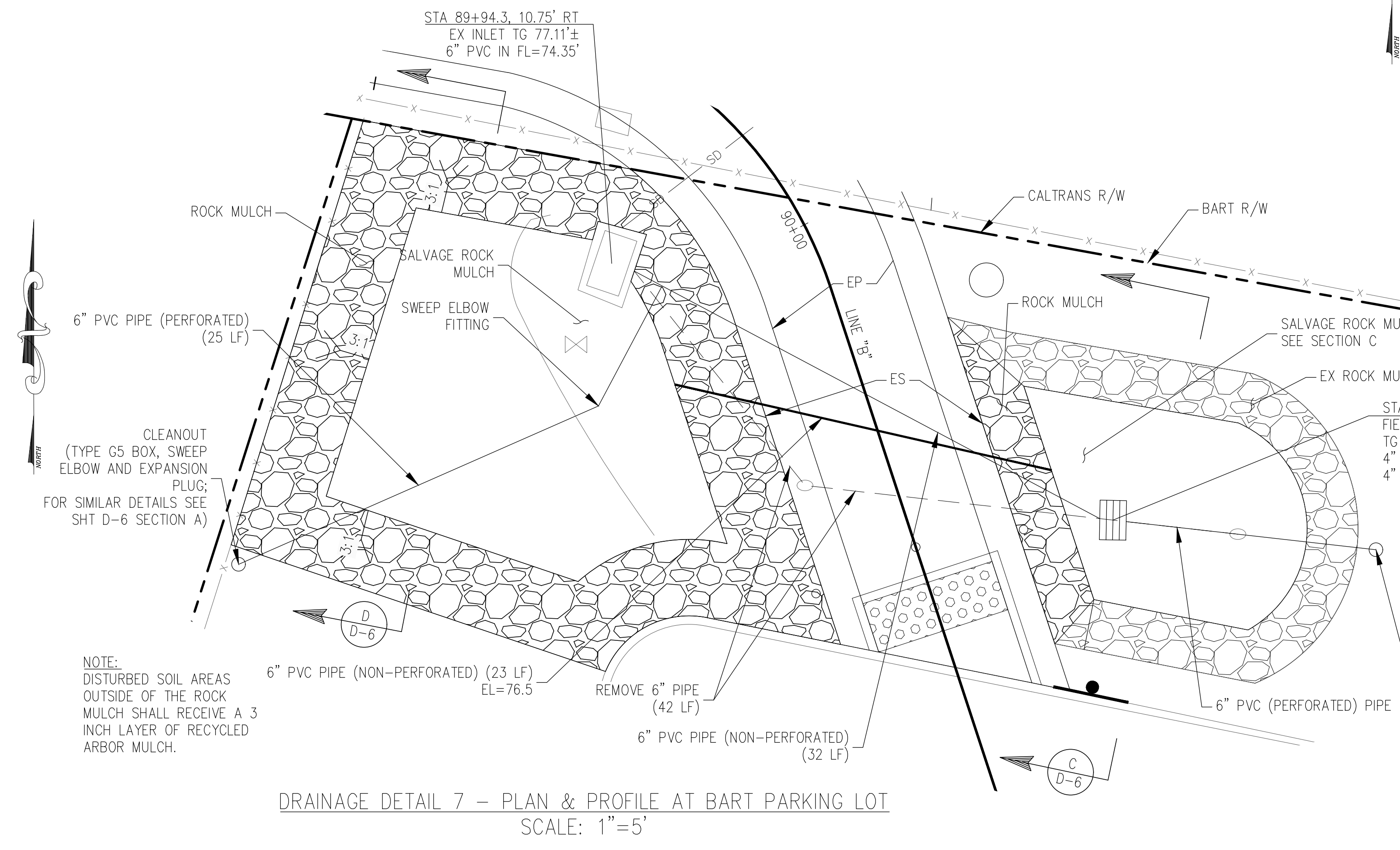
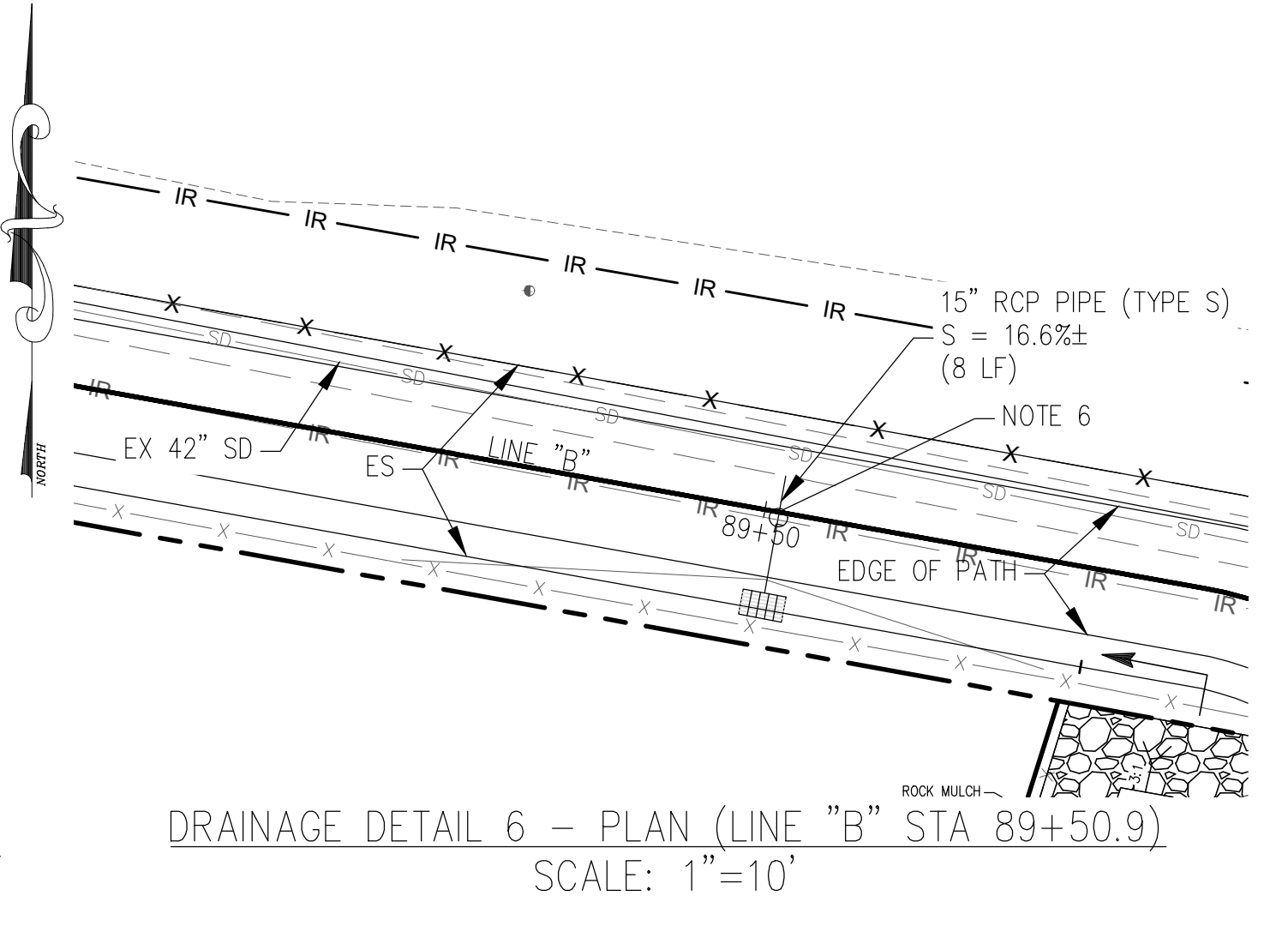
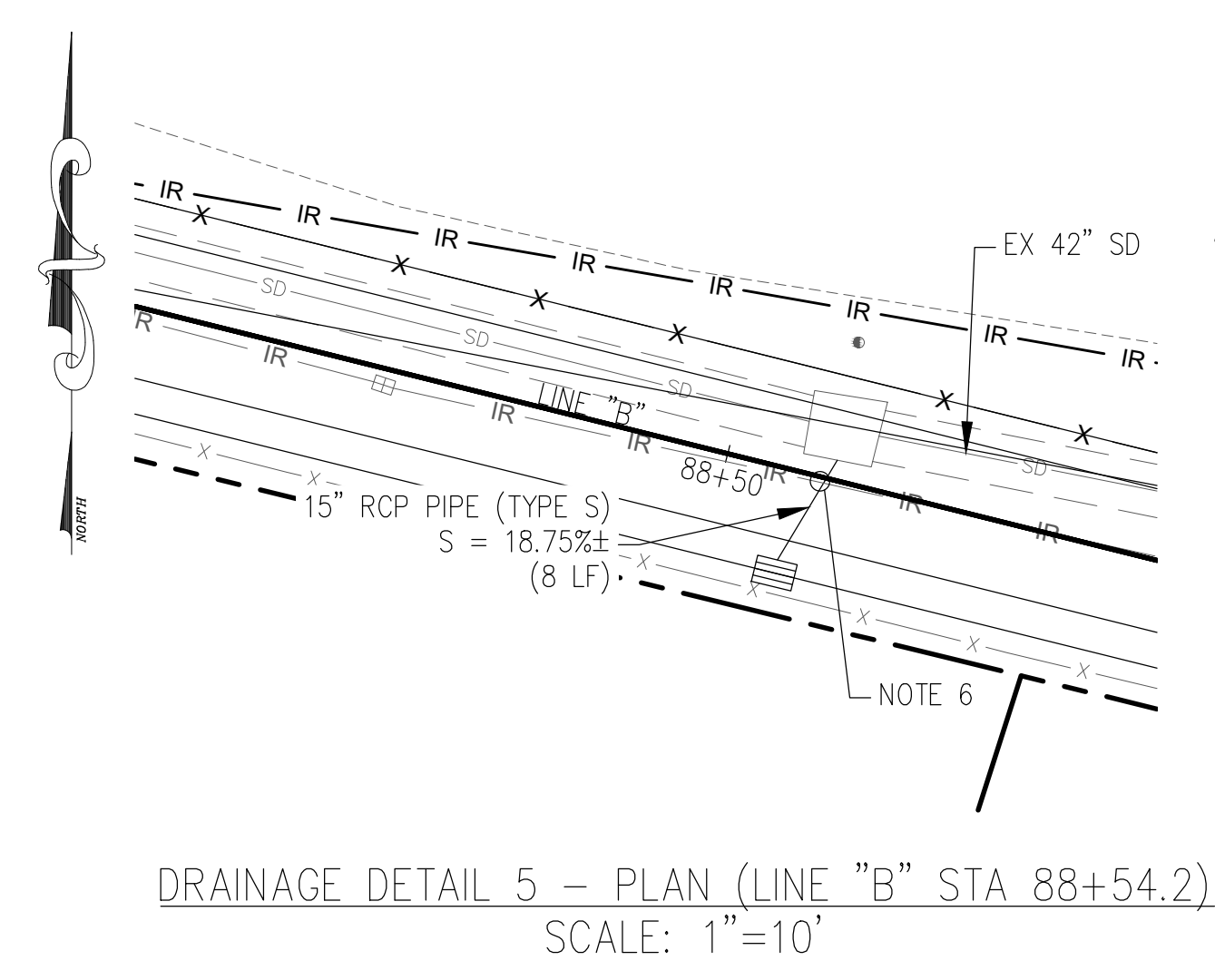
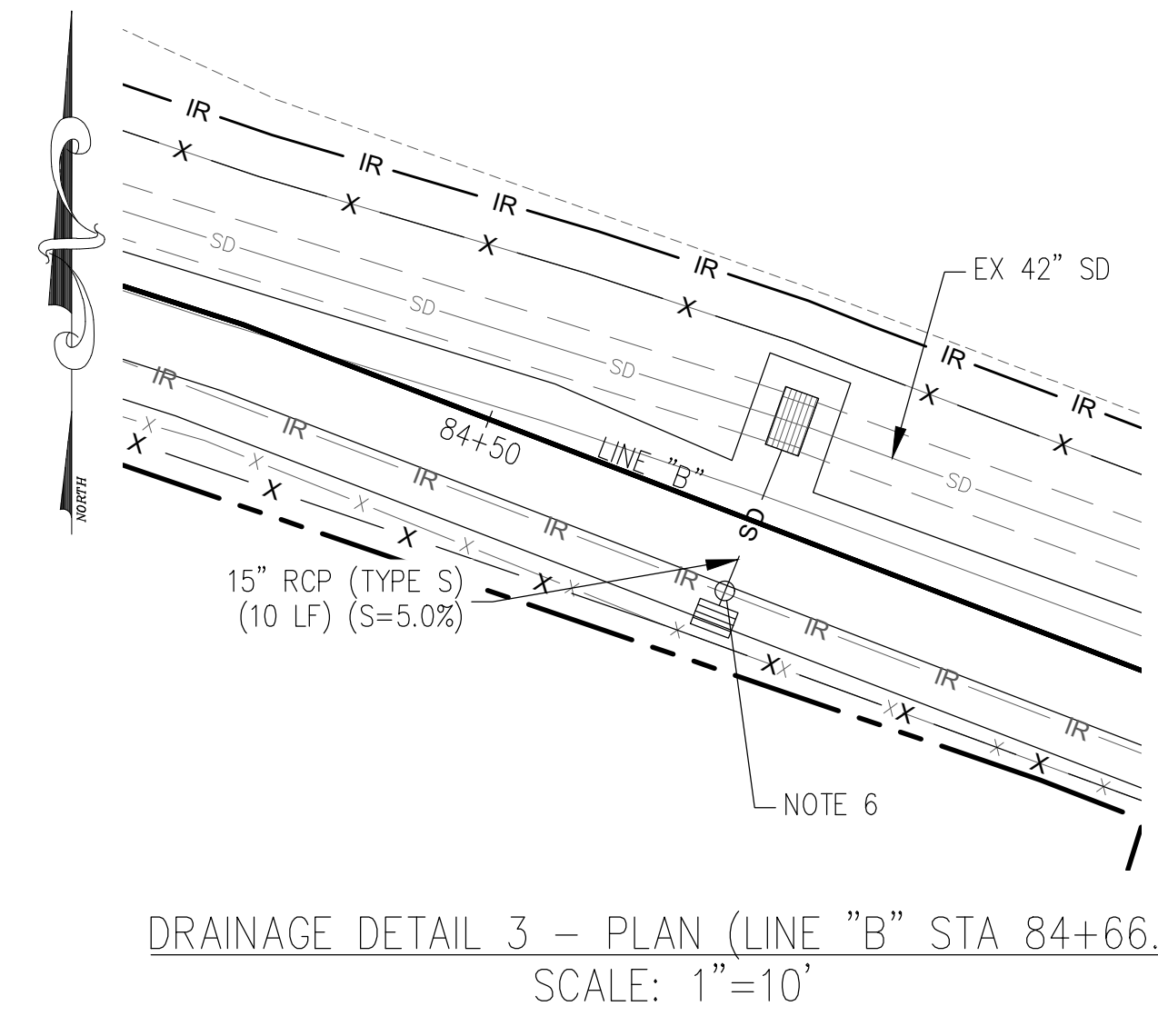
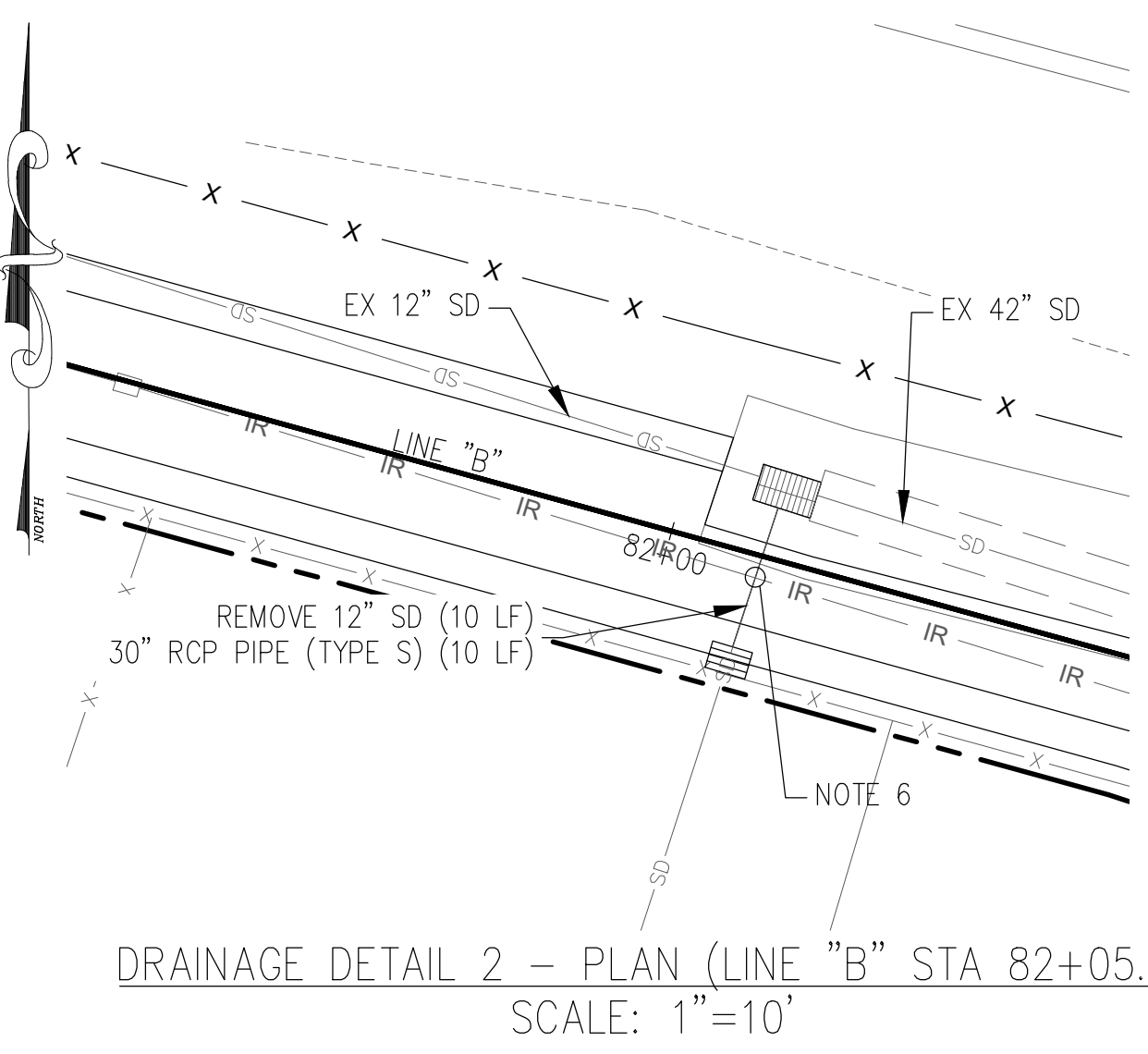
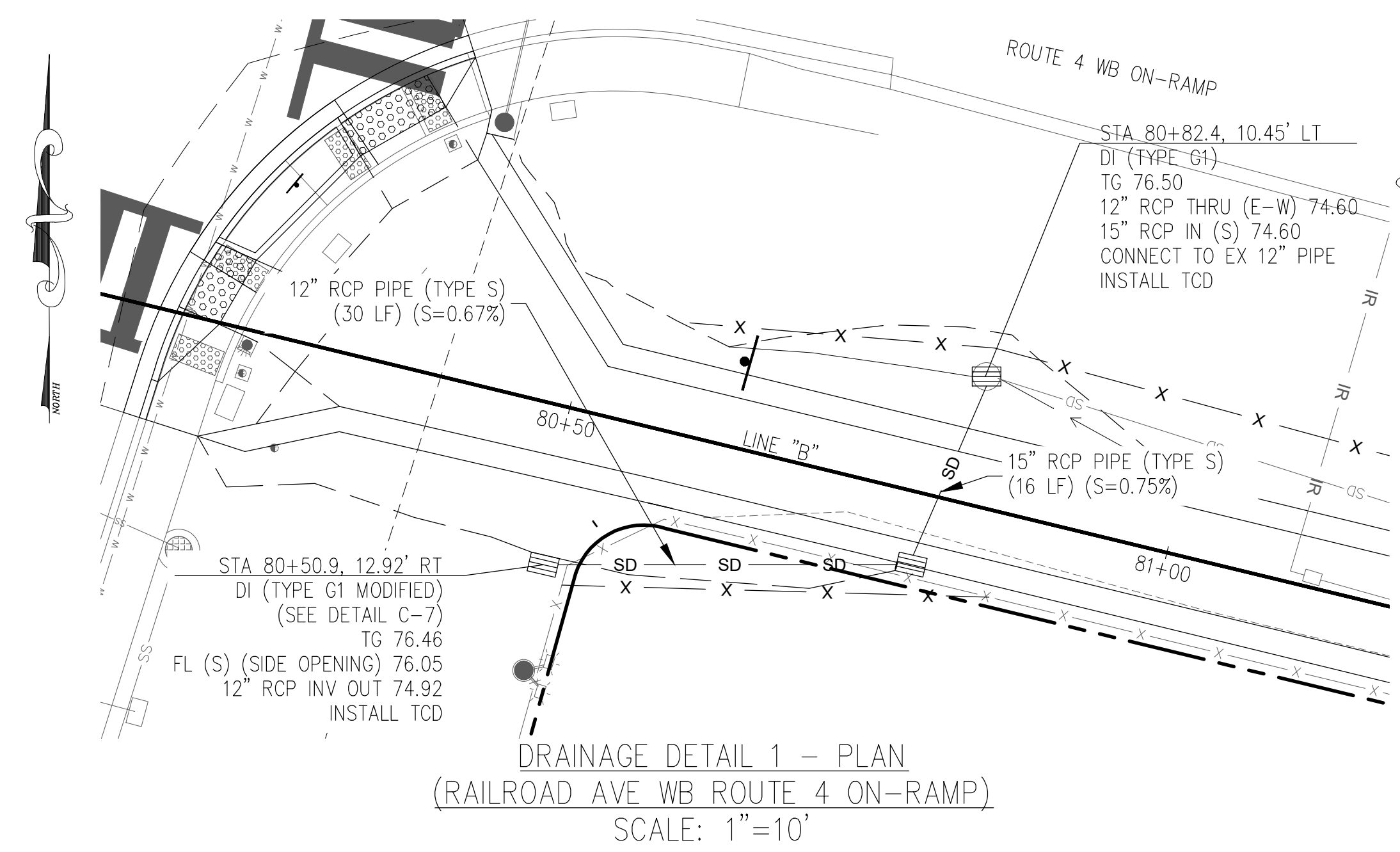
REGISTERED CIVIL ENGINEER
 DATE 01-17-23
 RANDALL T. HARRISON
 No. C46646
 Exp. 06/30/2023
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

HARRISON ENGINEERING INC.
 1987 BONIFACIO STREET
 CONCORD, CA 94520

CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



REVISOR: 01/17/2023 DATE: 01/17/2023

DESIGNED BY: CHECKED BY:

FUNCTIONAL SUPERVISOR:

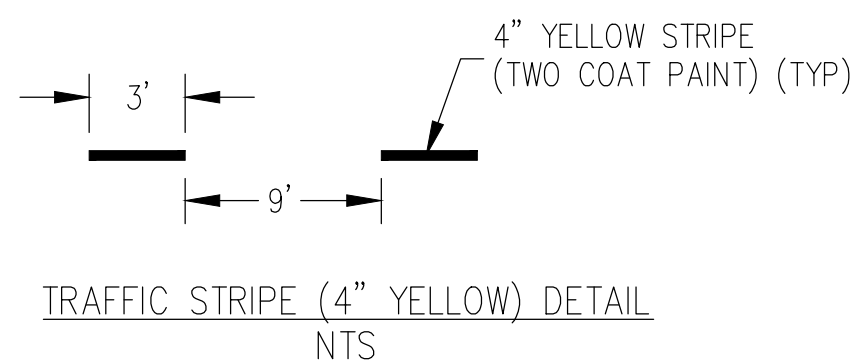
DEPARTMENT OF TRANSPORTATION

STATE OF CALIFORNIA

Caltrans

DATE PLOTTED => 01-17-23 TIME PLOTTED =>

NOTES:
 1. ALL TRAFFIC STRIPPING AND PVMT MARKINGS ON PD-1 AND PD-2 SHALL BE THERMOPLASTIC (2 COAT).



CALIFORNIA AVE PATH HORIZONTAL ALIGNMENT (LINE "A")			
SEGMENT NO.	START STATION	BEARING	DISTANCE (FT)
L1	50+00	S72°18'15.69"E	2000.00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	40	79

JOHN SAMUELSON, CITY ENGINEER, CE 67734 DATE _____

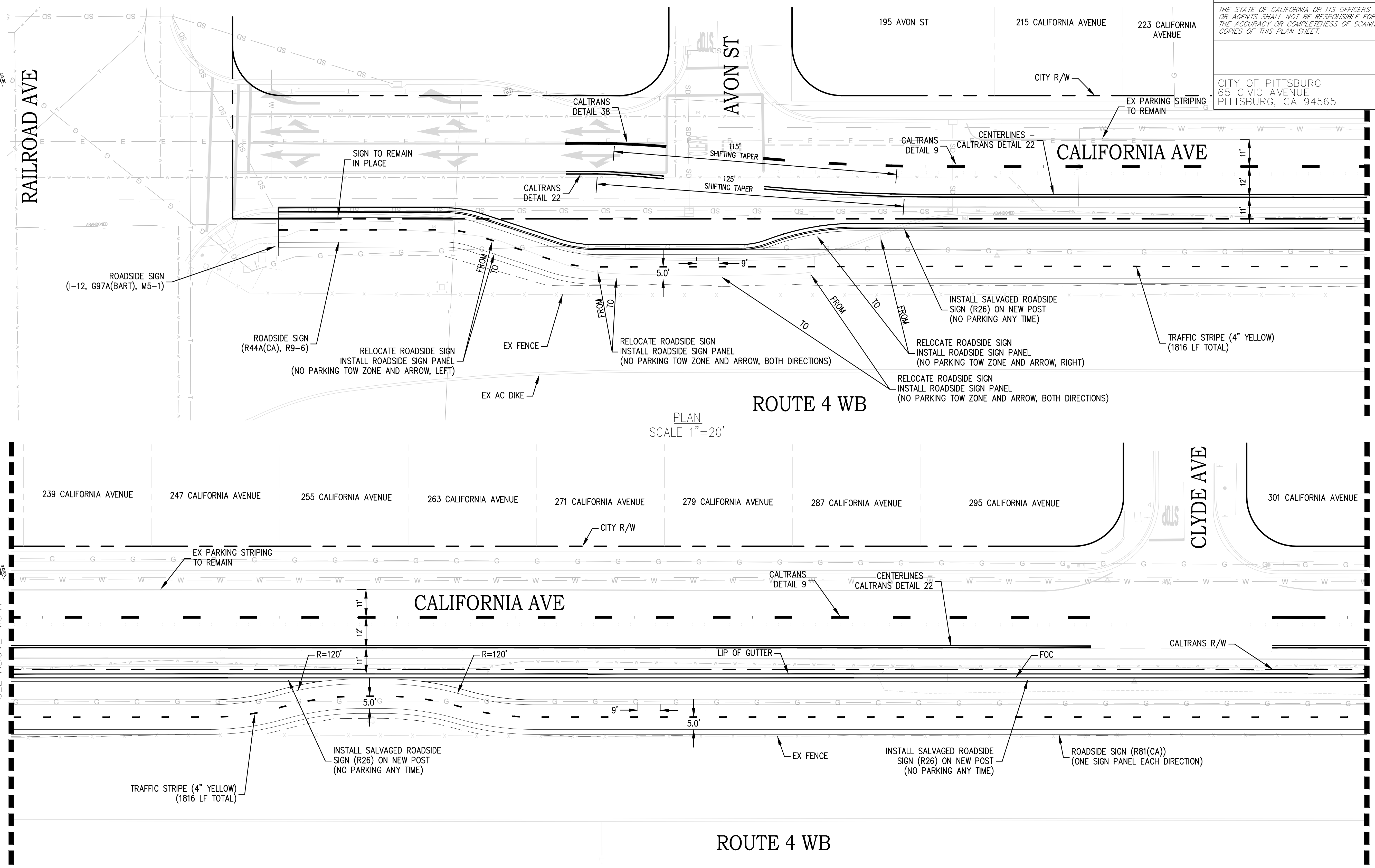
PLANS APPROVAL DATE _____

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Functional Supervisor: _____
 Designed by: DANYE JOHNSON
 Checked by: JOHN SAMUELSON
 Revised by: _____
 Date revised: _____
 Date: 1/9/2024



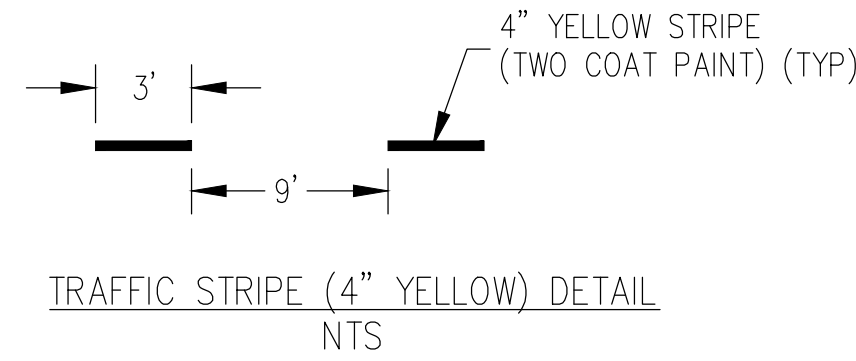
PLAN SCALE 1"=20'

PLAN SCALE 1"=20'

CALIFORNIA AVE PAVEMENT DELINEATION PD-1

DATE PLOTTED => 1/9/24 TIME PLOTTED =>

NOTES:
 1. ALL TRAFFIC STRIPPING AND PVMT MARKINGS ON PD-1 AND PD-2 SHALL BE PAINT (2 COAT).



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	41	79

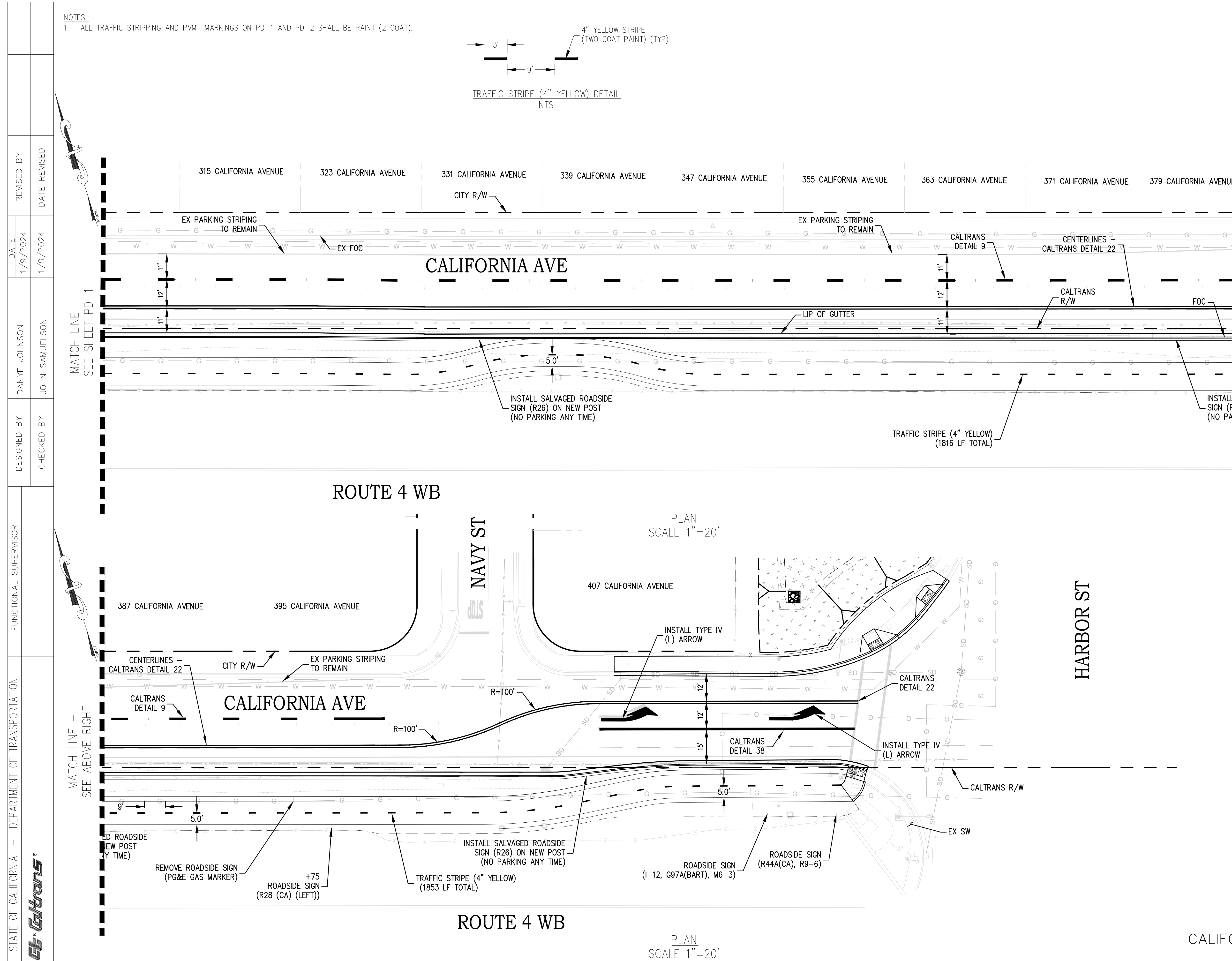
JOHN SAMUELSON, CITY ENGINEER, CE 67734 DATE _____



PLANS APPROVAL DATE _____

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

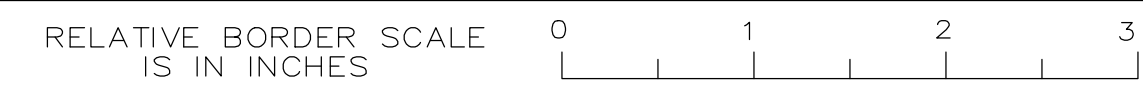
CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Functional Supervisor: _____
 Designed by: DANYE JOHNSON
 Checked by: JOHN SAMUELSON
 Date: 1/9/2024
 Revised by: _____
 Date revised: _____



PLAN SCALE 1"=20'



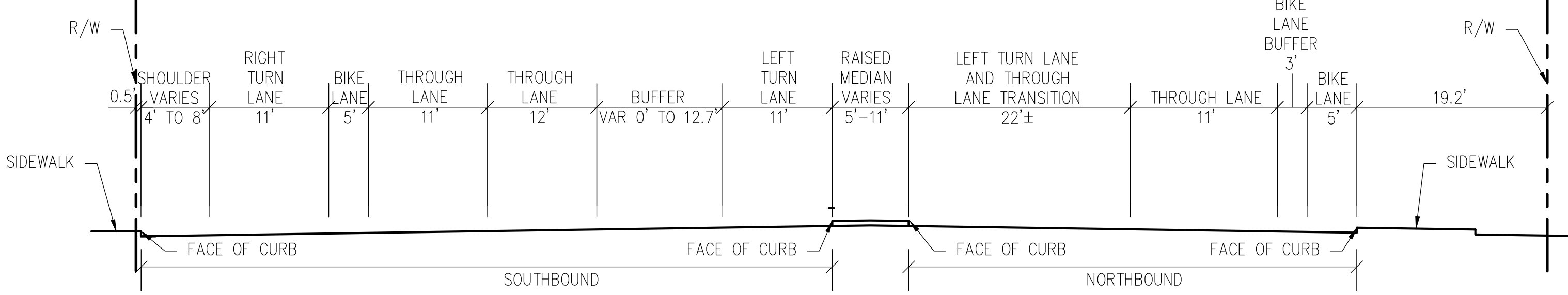
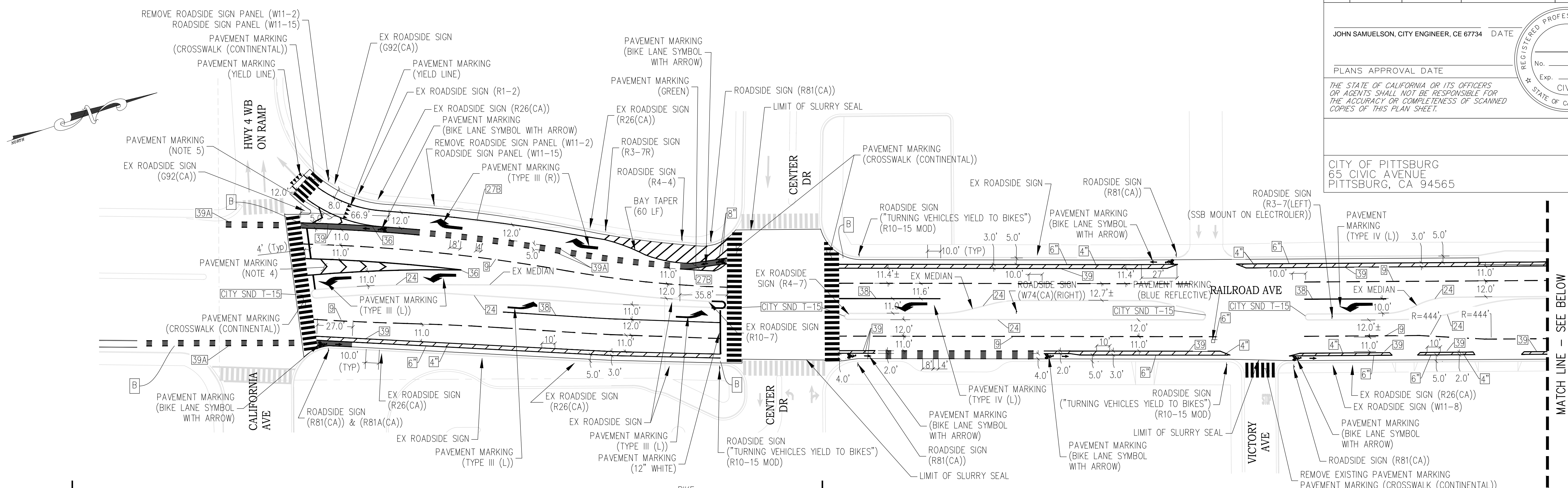
CALIFORNIA AVE PAVEMENT DELINEATION PD-2

DATE PLOTTED => 1/9/24 TIME PLOTTED => _____

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGNED BY: DANYE JOHNSON
 CHECKED BY: JOHN SAMUELSON
 REVISIONS:
 DATE: 1/9/2024
 DATE: 1/9/2024

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	42	79

JOHN SAMUELSON, CITY ENGINEER, CE 67734 DATE _____
 PLANS APPROVAL DATE _____
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.
 CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



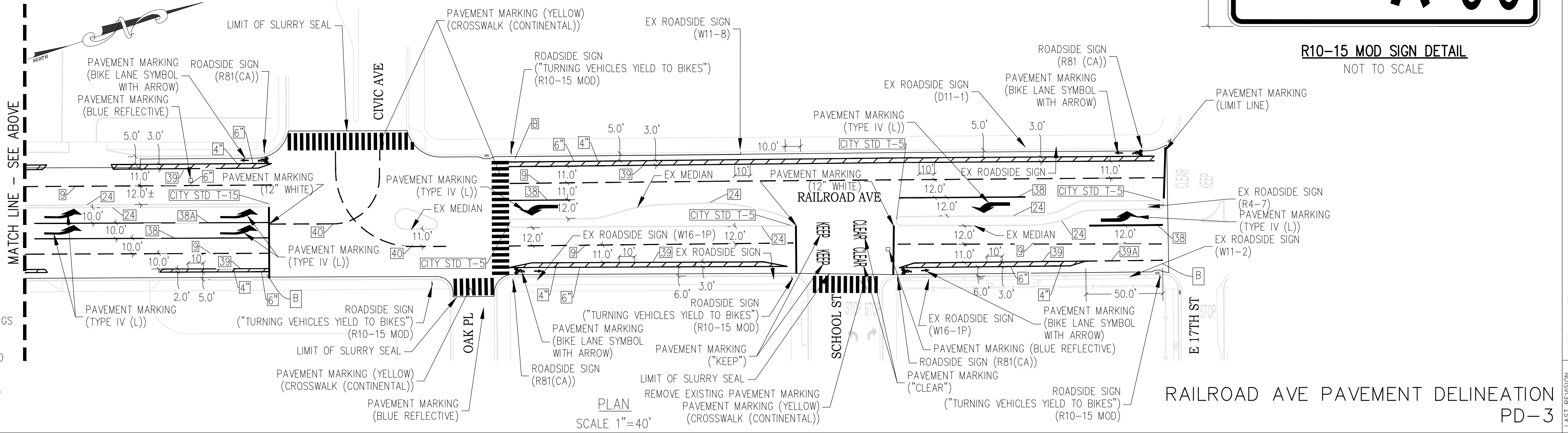
PLAN SCALE 1"=40'

SECTION A SCALE 1"=10'

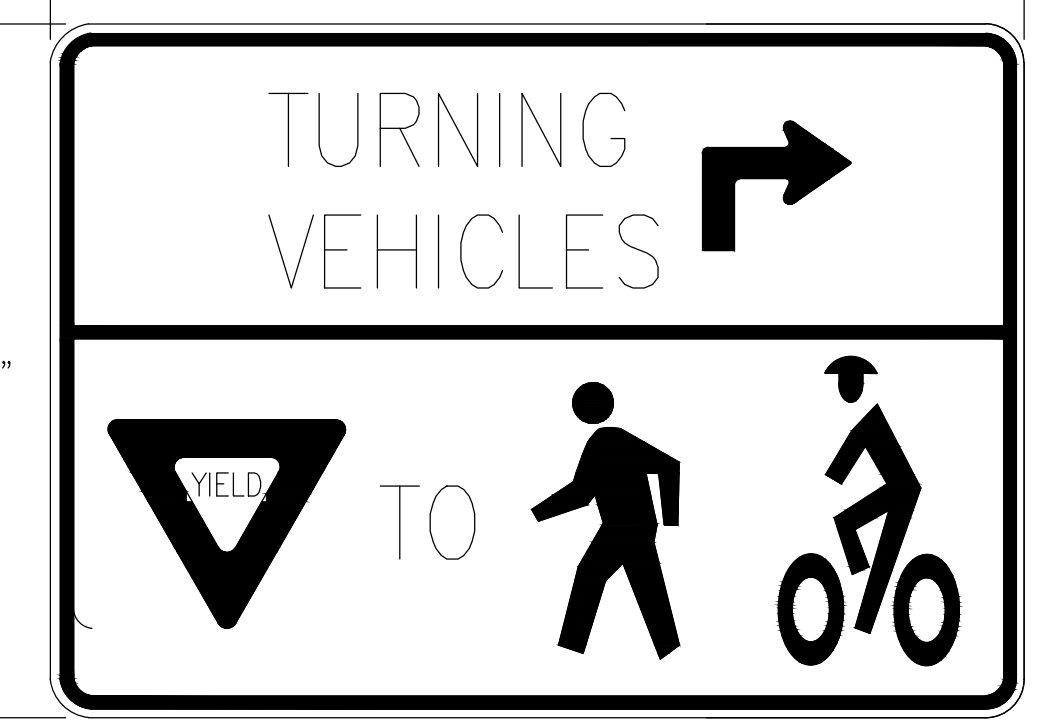
LEGEND (PAVEMENT DELINEATION PLAN ONLY):

- BICYCLE LOOP DETECTOR SYMBOL (NOTE 3)
- SEE LOOP DETECTOR PLACEMENT FOR THE INTERSECTIONS OF RAILROAD AVENUE, CALIFORNIA AVE AND CIVIC AVENUE ON THE TRAFFIC SIGNAL MODIFICATIONS PLANS
- PAVEMENT MARKING (GREEN LANE) (NOTE 2)
- PAVEMENT MARKING (BIKE SYMBOL AND ARROW ON GREEN) (SEE NOTE 2) (28' X 4' (OR 5'))

- NOTES:
- REMOVE EXISTING STRIPING (THERMOPLASTIC) WITHIN LIMITS OF SLURRY SEAL (TYPE 2).
 - ALL TRAFFIC STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED. GREEN LANES AND MARKINGS MAY BE EITHER PRE-FORMED THERMOPLASTIC PANELS OR METHYL METHACRYLATE PAINT.
 - SEE LOOP DETECTOR PLACEMENT FOR THE INTERSECTIONS OF RAILROAD AVENUE, CALIFORNIA AVE AND CIVIC AVENUE ON THE TRAFFIC SIGNAL MODIFICATIONS PLANS.
 - FOR DETAILS NOT SHOWN, SEE RSPA20C, "CHEVRON PVMT MARKING AT EXIT RAMP GORE AREA."



PLAN SCALE 1"=40'



R10-15 MOD SIGN DETAIL NOT TO SCALE

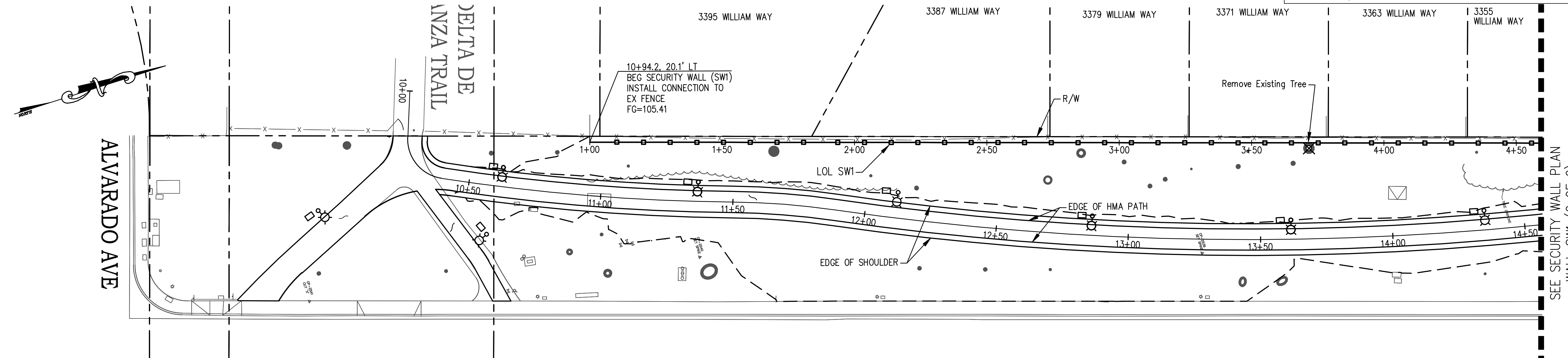
RAILROAD AVE PAVEMENT DELINEATION PD-3

DATE PLOTTED => 1/9/24 TIME PLOTTED =>

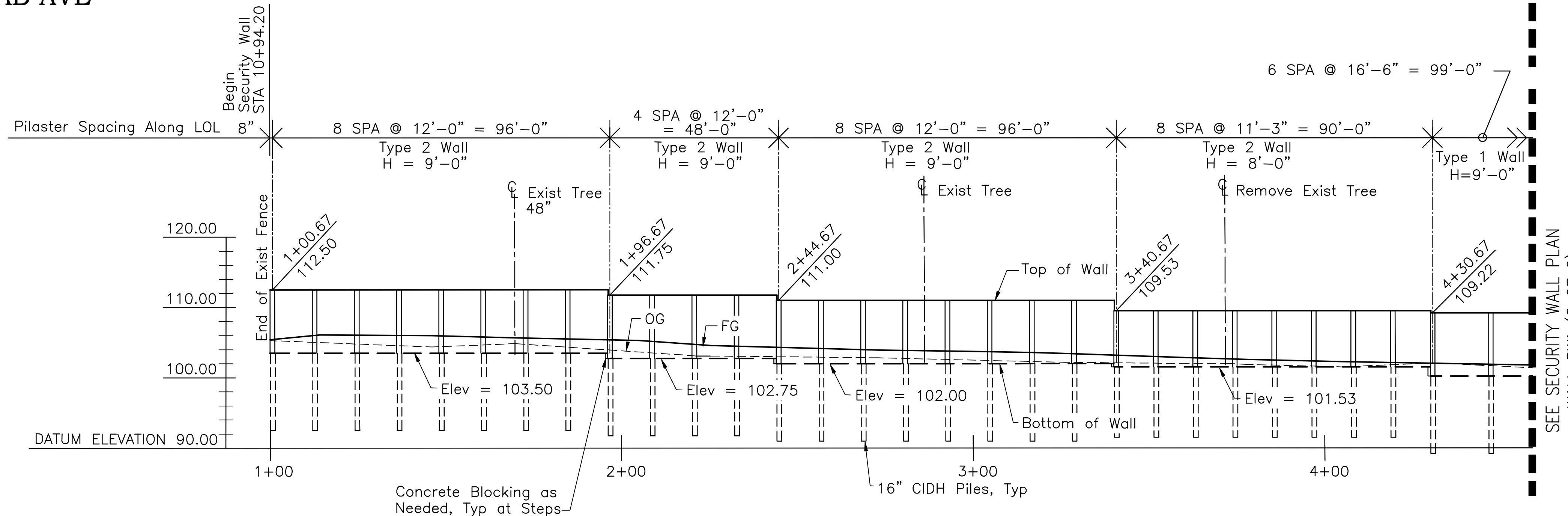
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	43	79

REGISTERED CIVIL ENGINEER
 DATE 03-31-22
 ESMOND C. CHAN
 No. C39454
 Exp. 12/31/23
 CIVIL
 STATE OF CALIFORNIA

JMEC ENGINEERING INC.
 165 LENNON LANE, SUITE 106
 WALNUT CREEK, CA 94598
 CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



SECURITY WALL PLAN (WALL SW1)
 SCALE 1"=20'



SECURITY WALL ELEVATION (ALONG WALL SW1 LOL)
 SCALE 1"=10' VERT
 1"=20' HORIZ

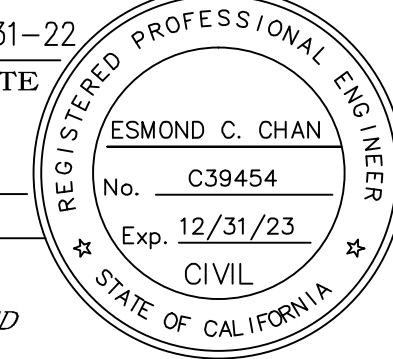
- NOTES:
- Contractor shall verify location of all existing utilities prior to beginning construction.
 - Trees in conflict with the work shall be pruned or removed as approved by the engineer to install security wall.
 - For security wall details, see "Security Wall Detail" sheets, SW-4 and SW-5.
 - This plan is accurate for Security Wall Information Only.

SEE SECURITY WALL PLAN WALL SW1 (2 OF 2)


SEE SECURITY WALL PLAN WALL SW1 (2 OF 2)

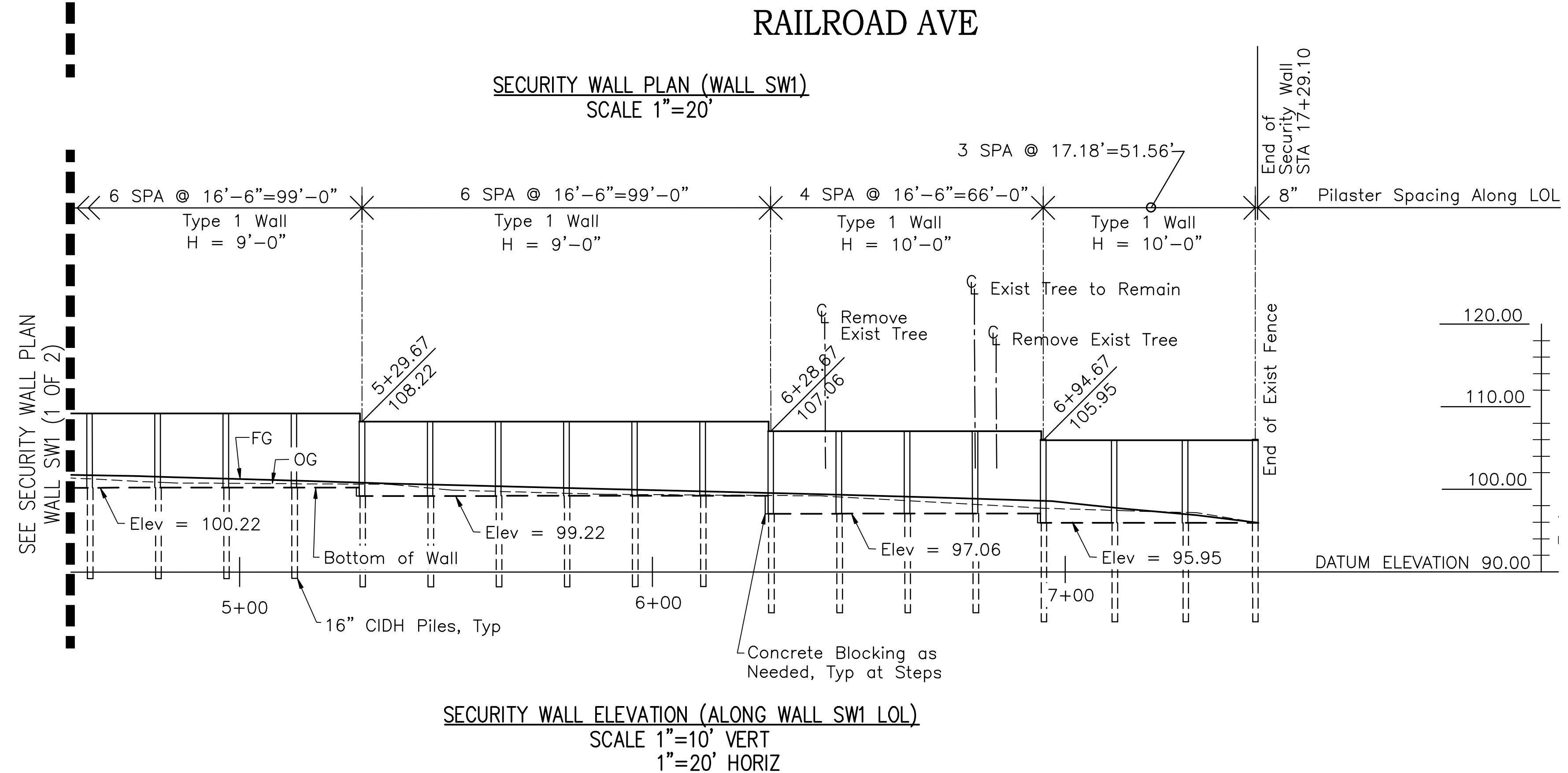
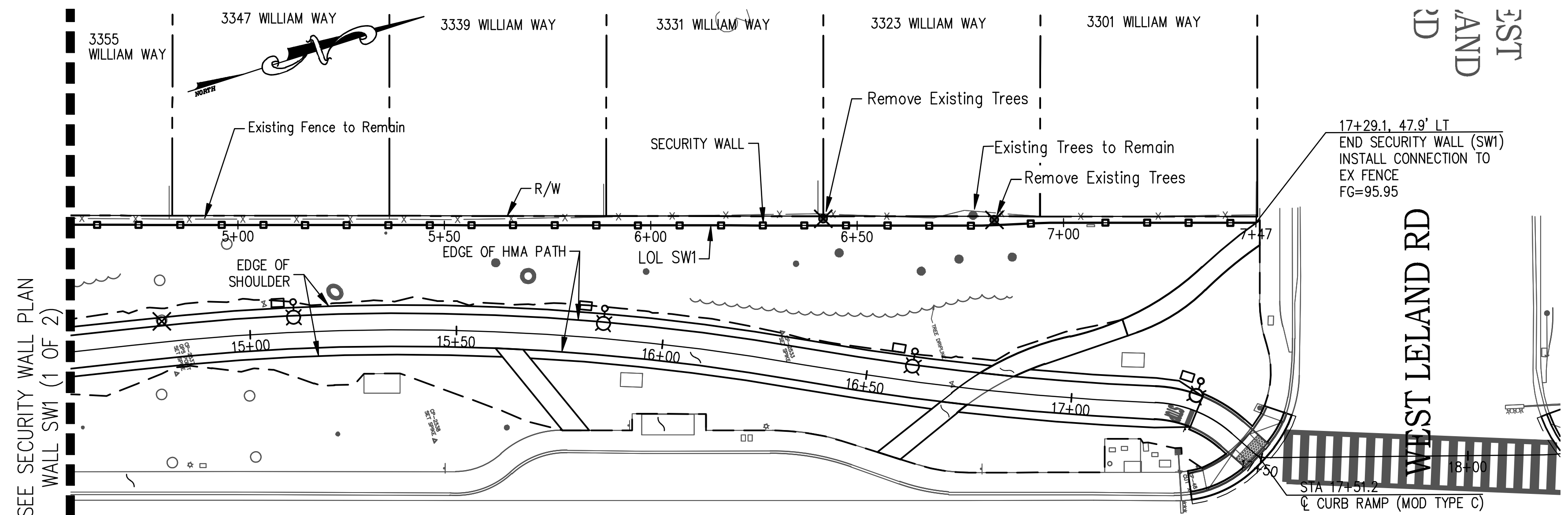
ADDITIVE BID B
 SECURITY WALL PLAN
 WALL SW1
 SW-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	44	79


 REGISTERED CIVIL ENGINEER DATE 03-31-22
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

JMEC ENGINEERING INC.
 165 LENNON LANE, SUITE 106
 WALNUT CREEK, CA 94598
 CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	DATE	REVISOR	DATE
		BRYANT CHAN	03/31/2022		
		GODWIN MOK	03/31/2022		



- NOTES:**
- See Sheet SW-1 for Security Wall General Notes.
 - This plan is accurate for Security Wall Information Only.

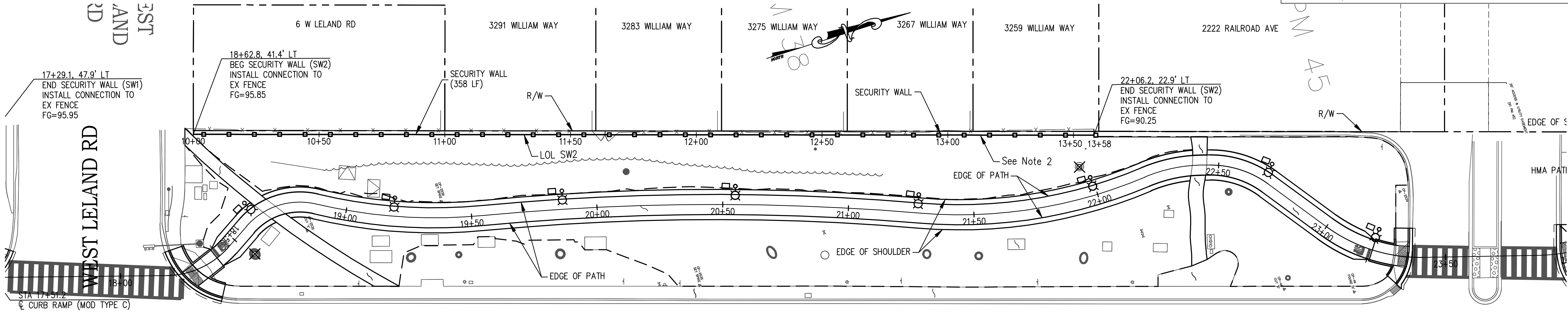
ADDITIVE BID B
SECURITY WALL PLAN
WALL SW1
SW-2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	45	79

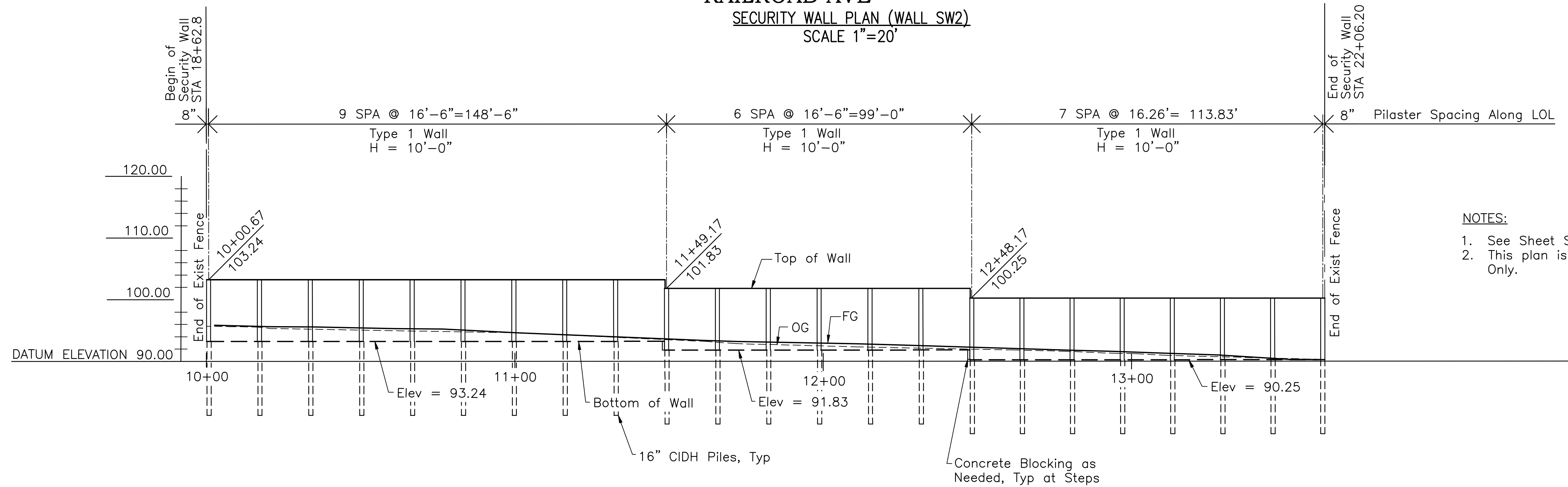
REGISTERED CIVIL ENGINEER
 DATE 03-31-22
 REGISTERED PROFESSIONAL ENGINEER
 ESMOND C. CHAN
 No. C39454
 Exp. 12/31/23
 CIVIL
 STATE OF CALIFORNIA

JMEC ENGINEERING INC.
 165 LENNON LANE, SUITE 106
 WALNUT CREEK, CA 94598
 CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565

DATE	REVISOR	DATE
03/31/2022	BRYANT CHAN	03/31/2022
03/31/2022	GODWIN MOK	
DESIGNED BY	CHECKED BY	FUNCTIONAL SUPERVISOR
BRYANT CHAN	GODWIN MOK	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION		



RAILROAD AVE
SECURITY WALL PLAN (WALL SW2)
 SCALE 1"=20'



SECURITY WALL ELEVATION (ALONG WALL SW2 LOL)
 SCALE 1"=10' VERT
 1"=20' HORIZ

- NOTES:
- See Sheet SW-1 for General Notes.
 - This plan is accurate for Security Wall Information Only.

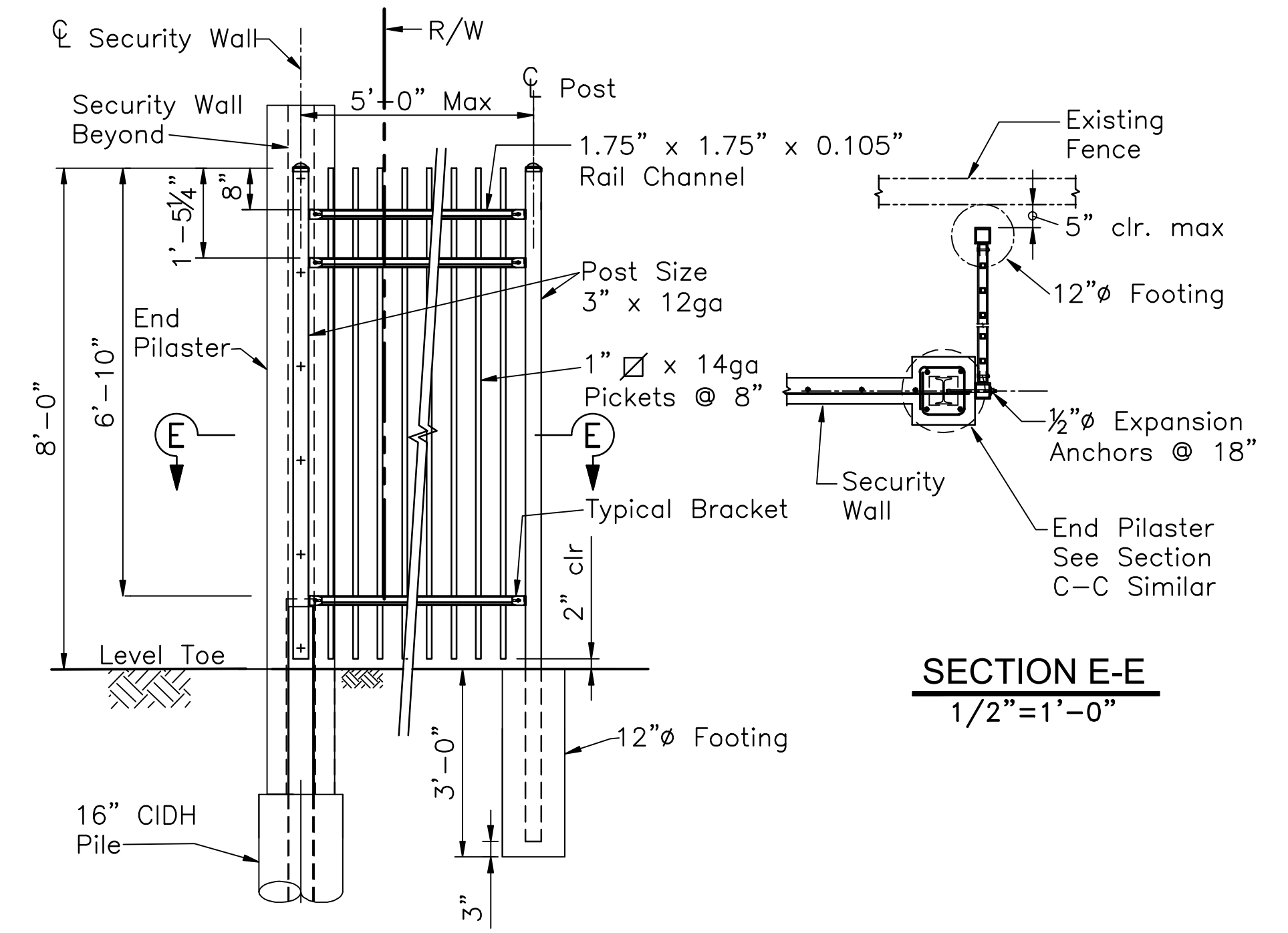
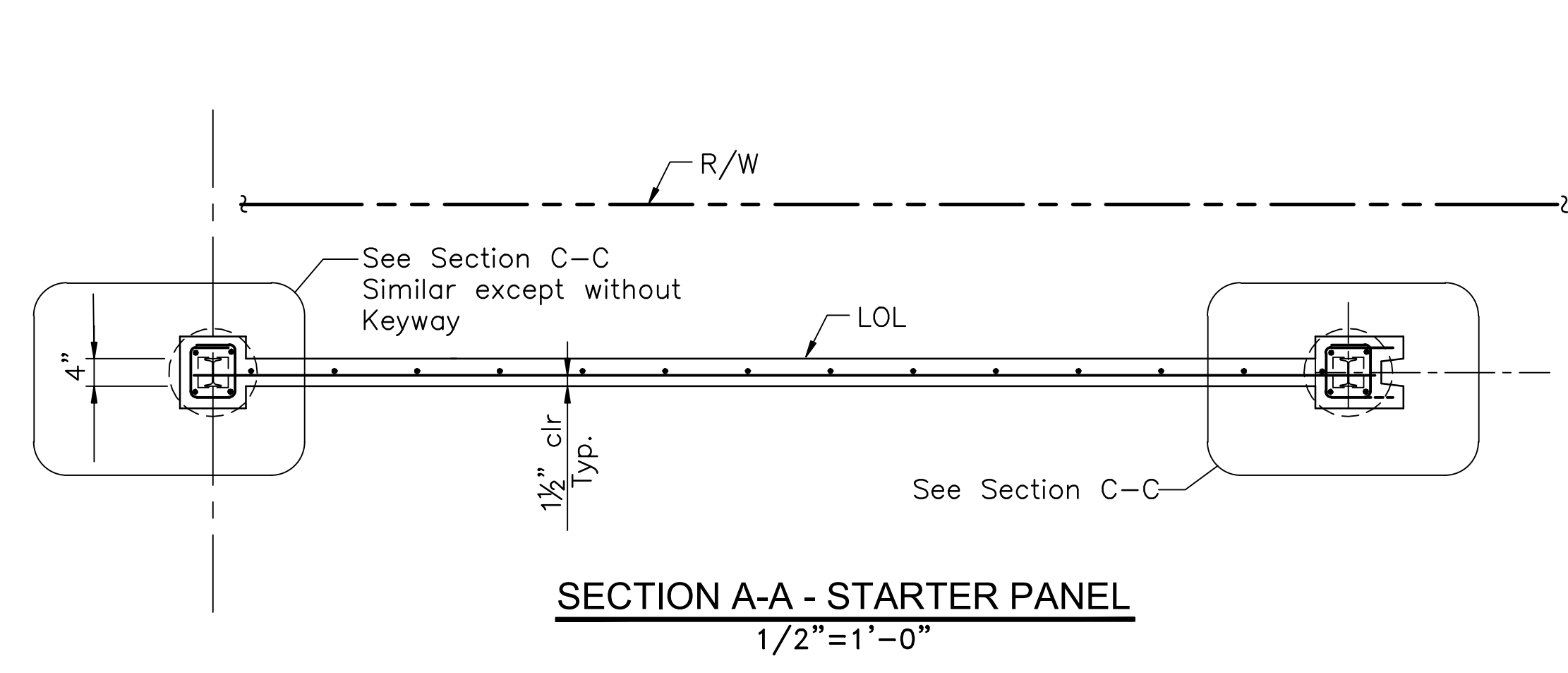
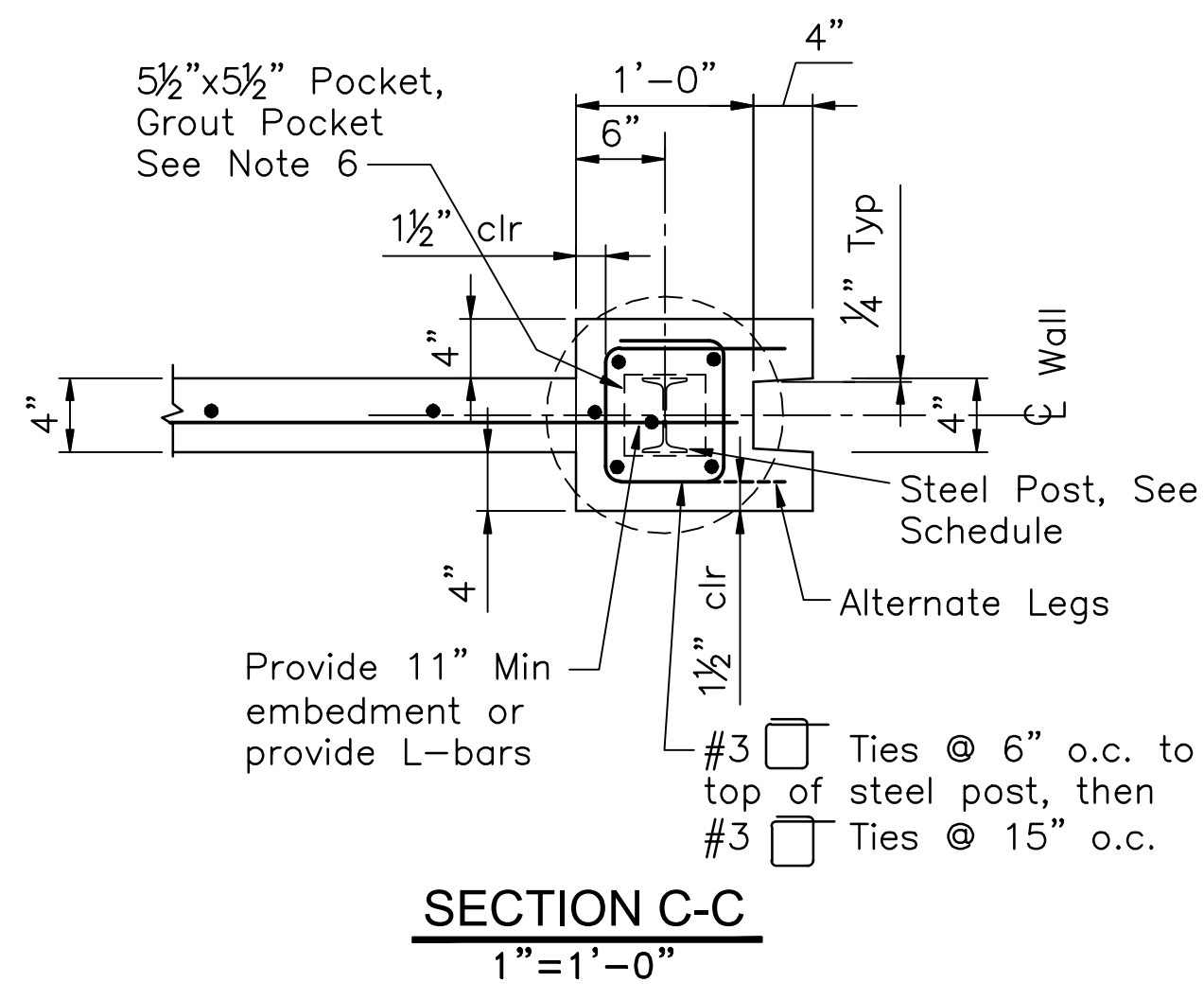
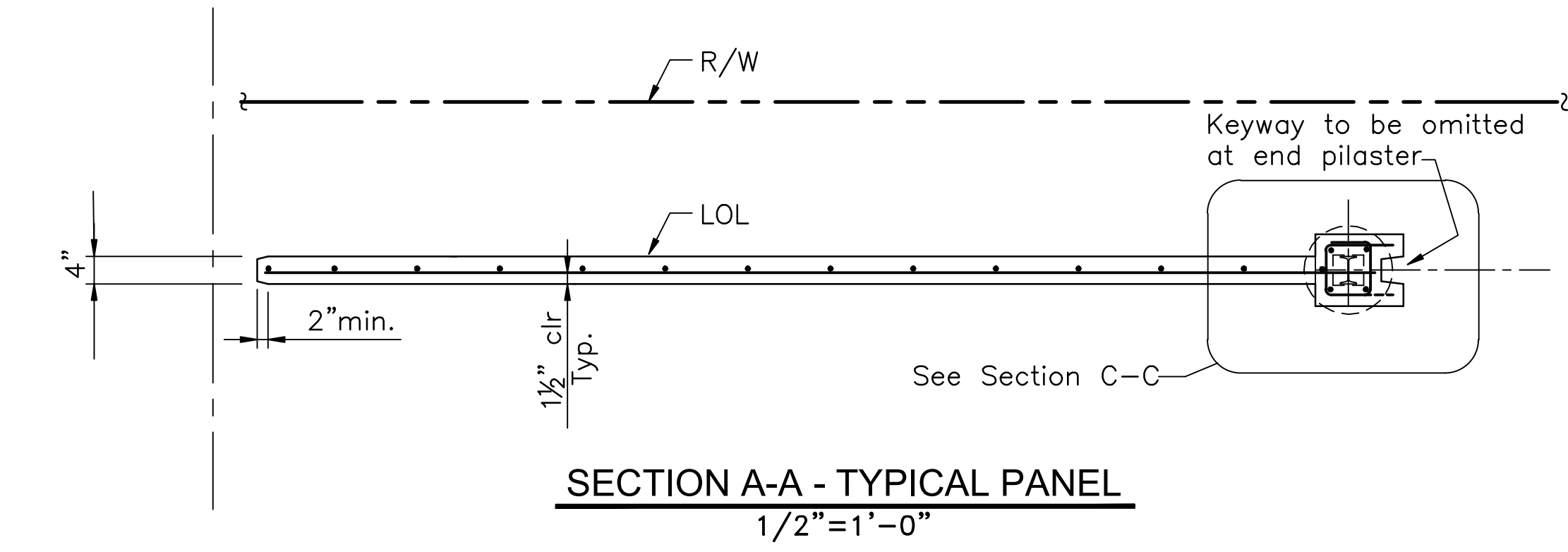
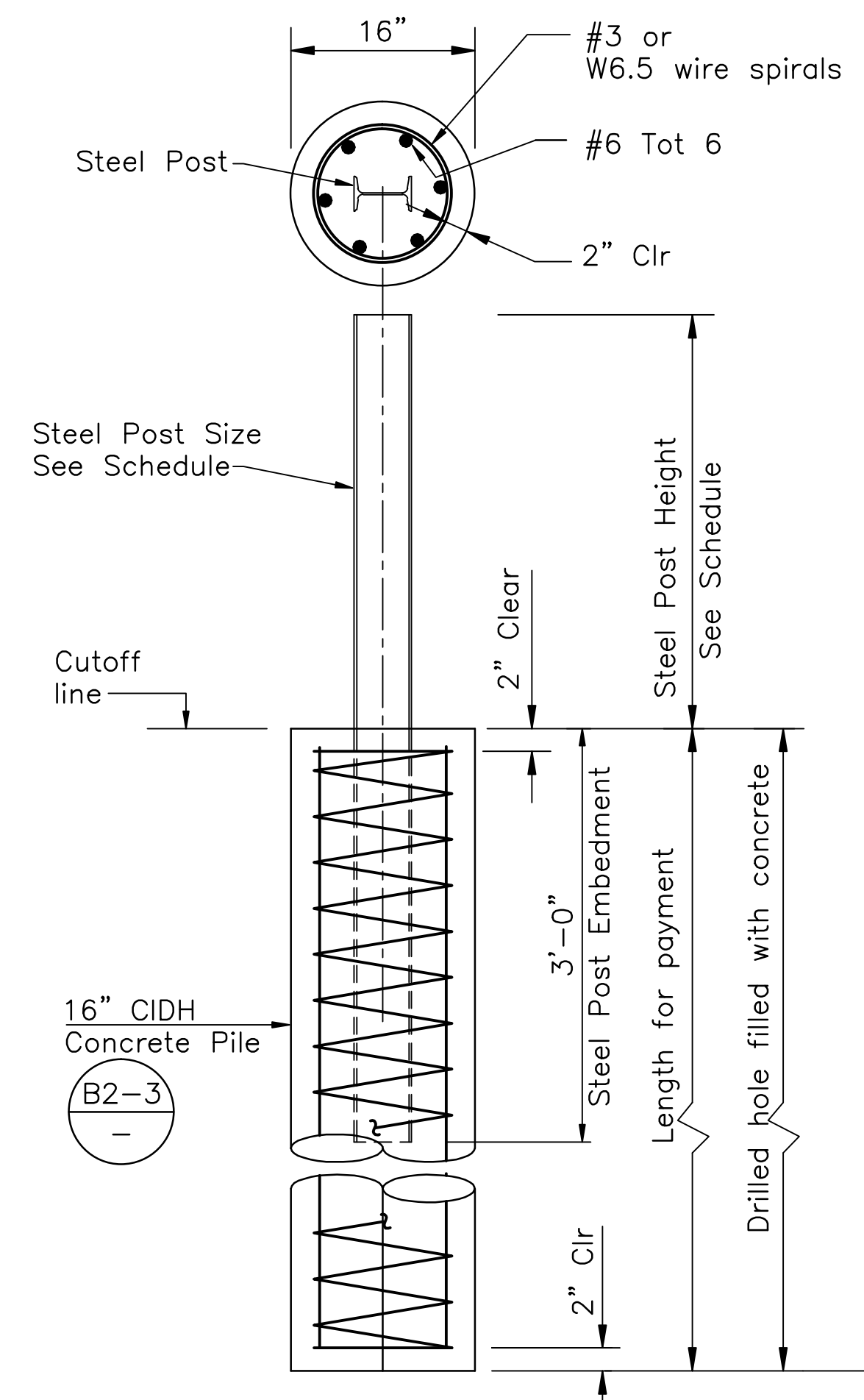
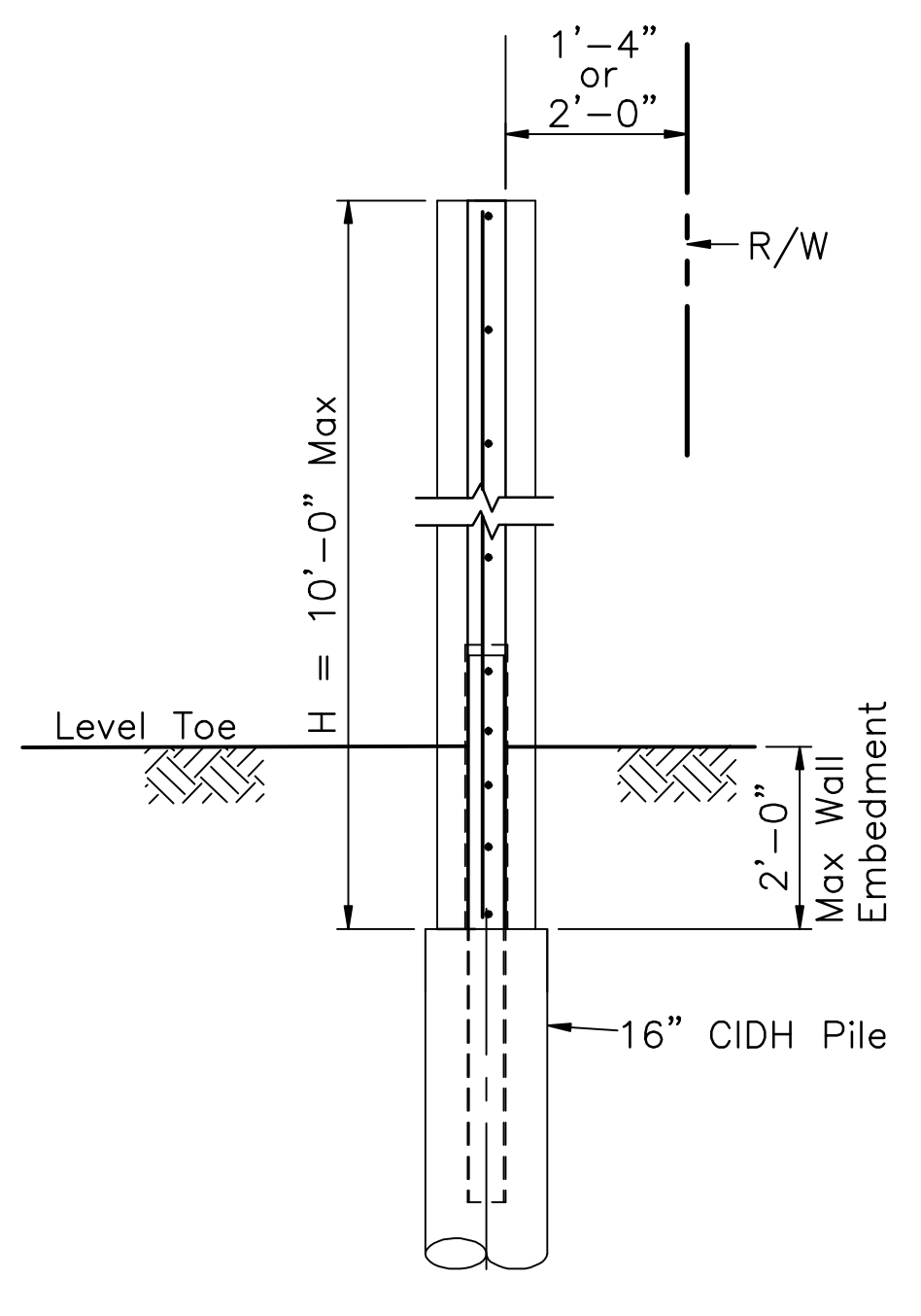
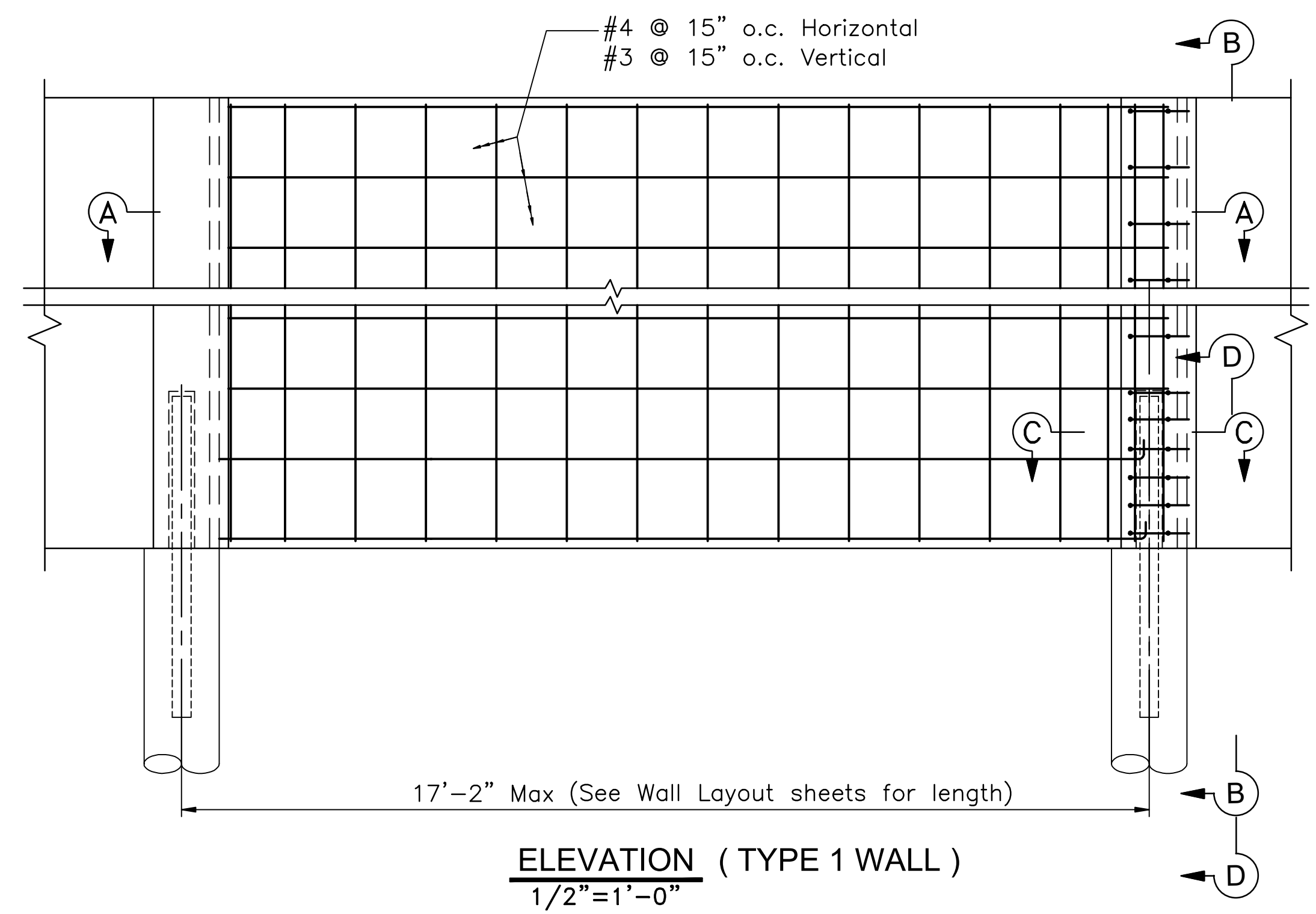
ADDITIVE BID B
 SECURITY WALL PLAN
 WALL SW2
 SW-3



DATE PLOTTED => 23-Mar-2022
 TIME PLOTTED => 08:31
 LAST REVISION 03-31-22

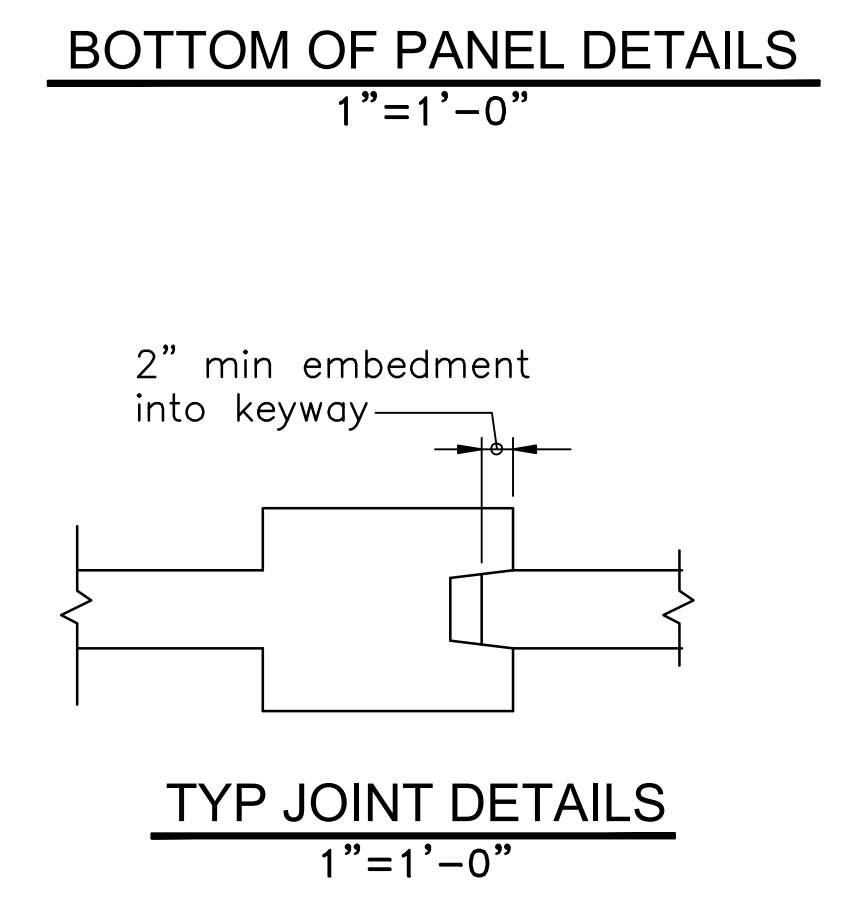
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	46	79

03-31-22 DATE
 REGISTERED CIVIL ENGINEER
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.
 JMEC ENGINEERING INC.
 165 LENNON LANE, SUITE 106
 WALNUT CREEK, CA 94598
 CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



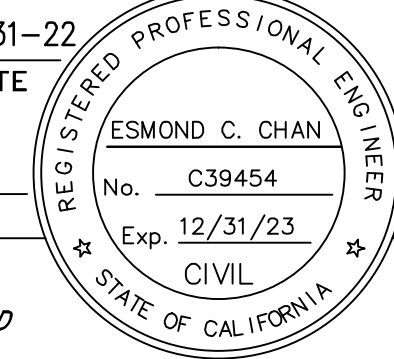
Wall Height "H"	Wall Embedment	Toe Condition	Steel Post Size	Steel Post Height	Length of CIDH Piles	Pilaster Reinforcing
9'-0"	1'-0"	Level Toe	S5x10	3'-0"	11'-0"	(2) #5 Each Face
10'-0"	2'-0"	Level Toe	S5x10	3'-0"	12'-0"	(2) #5 Each Face

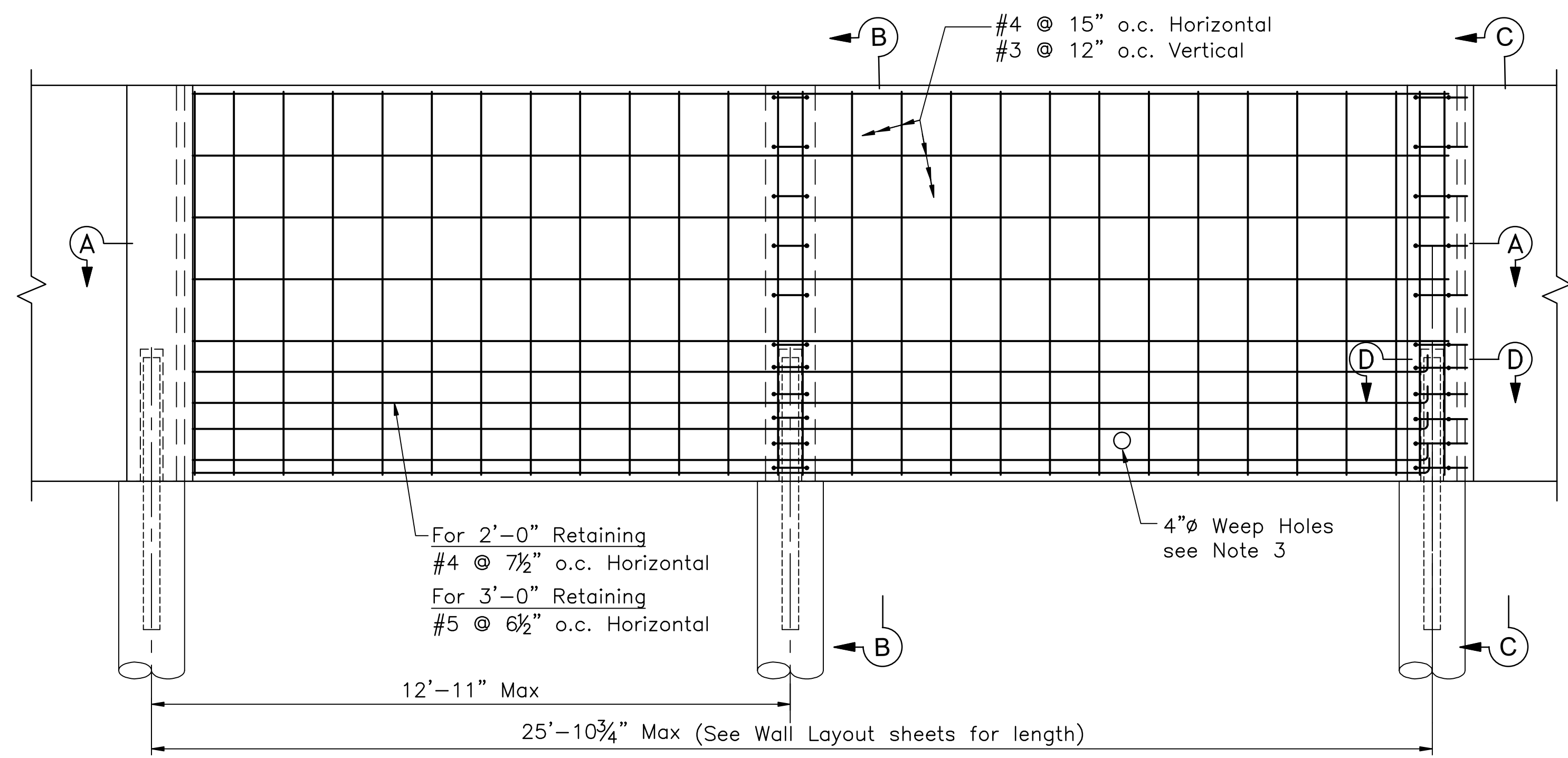
- MATERIALS:**
 CONCRETE : f'c = 3,000 PSI, 28 Days compressive strength
 REINFORCEMENT : ASTM A-615 or ASTM-A706, Grade 60
 STEEL SHAPES : ASTM A-572, Grade 50 ksi
- GENERAL NOTES:**
- Wall design is based on seismic load of 29.2 psf and wind load of 16.0 psf. and passive soil pressure of 450 pcf over 2 pier diameters. Soil information is per Cornerstone Earth Group Inc. Geotechnical Report Dated : April 16, 2020
 - All pier steel posts may be "wet set".
 - CIDH Piles are friction pile, therefore bottom of holes should be cleaned out within reason. The soil engineer will verify hole cleanliness.
 - Shimming of panels to achieve a level wall line is approved with the use of high strength plastic shims.
 - Min. rebar splice length shall be 48 bar diameters.
 - Pressure grout pockets with vent holes, min grout strength is 3,000 psi at 28 days.



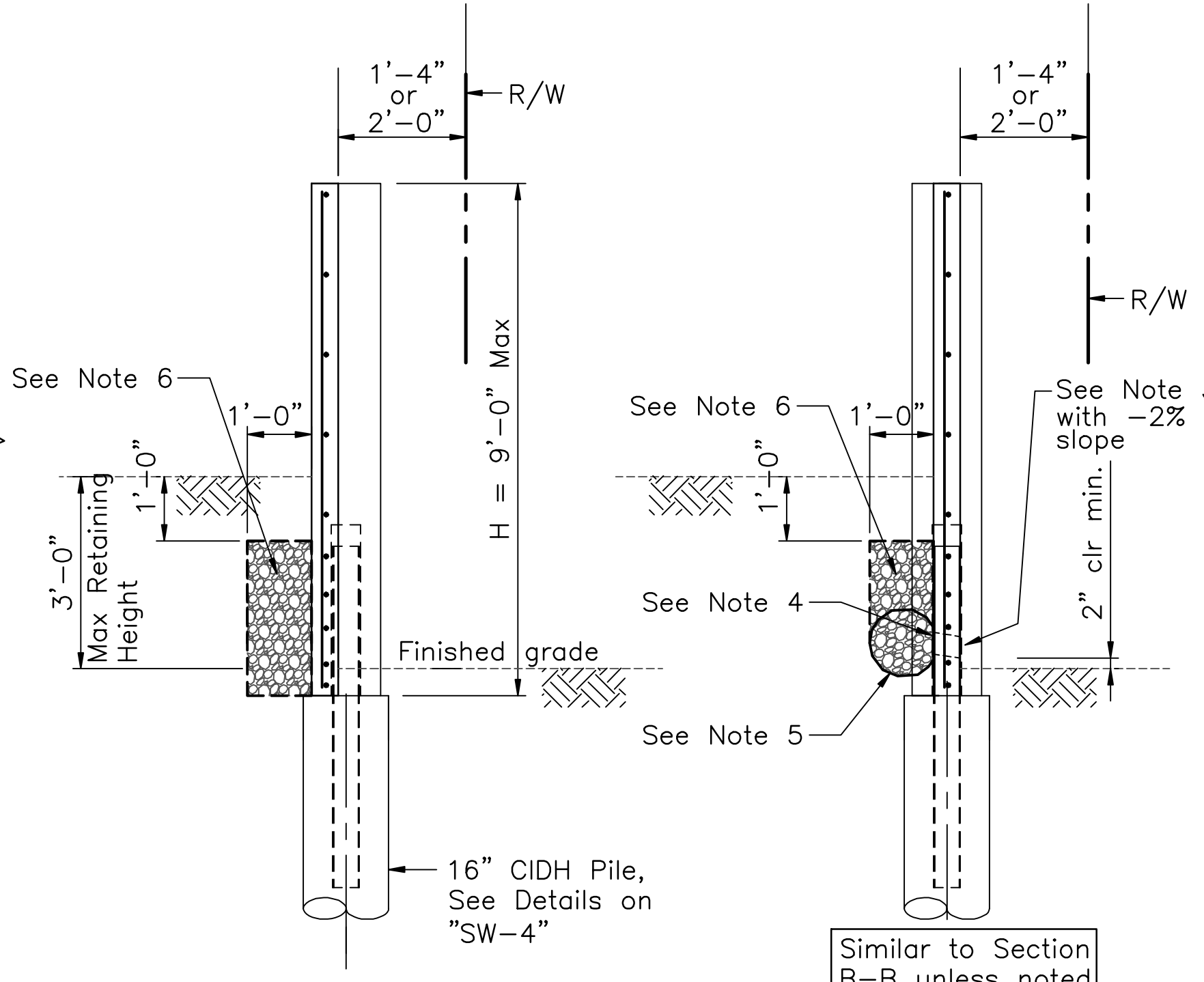
ADDITIVE BID B
SECURITY WALL DETAILS
SW-4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	47	79


 REGISTERED CIVIL ENGINEER
 DATE 03-31-22
 PLANS APPROVAL DATE
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 165 LENNON LANE, SUITE 106
 WALNUT CREEK, CA 94598
 CITY OF PITTSBURG
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 PITTSBURG, CA 94565

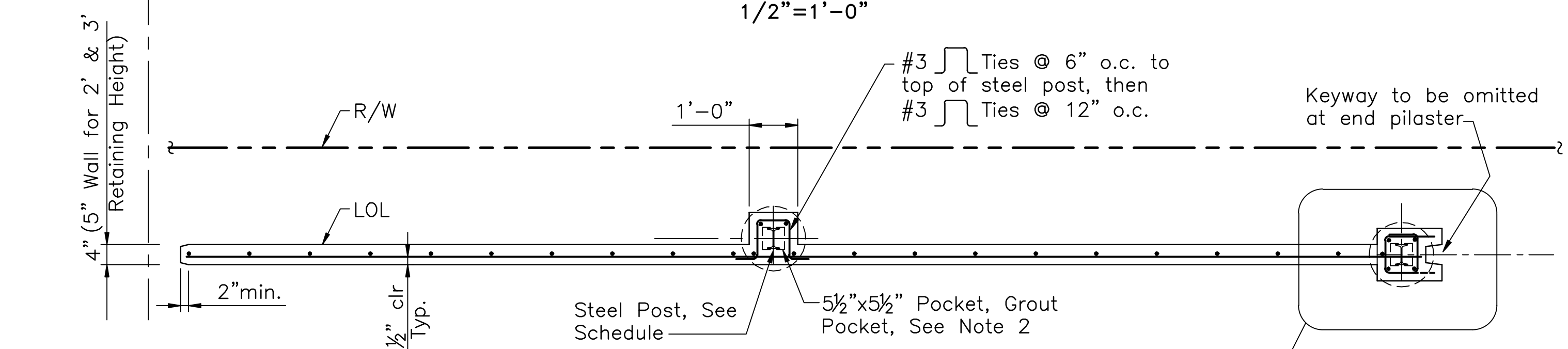


ELEVATION (TYPE 2 WALL)
 1/2"=1'-0"

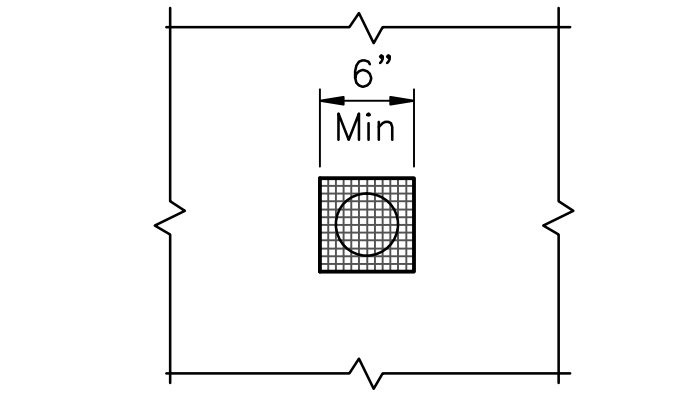


SECTION B-B
 1/2"=1'-0"

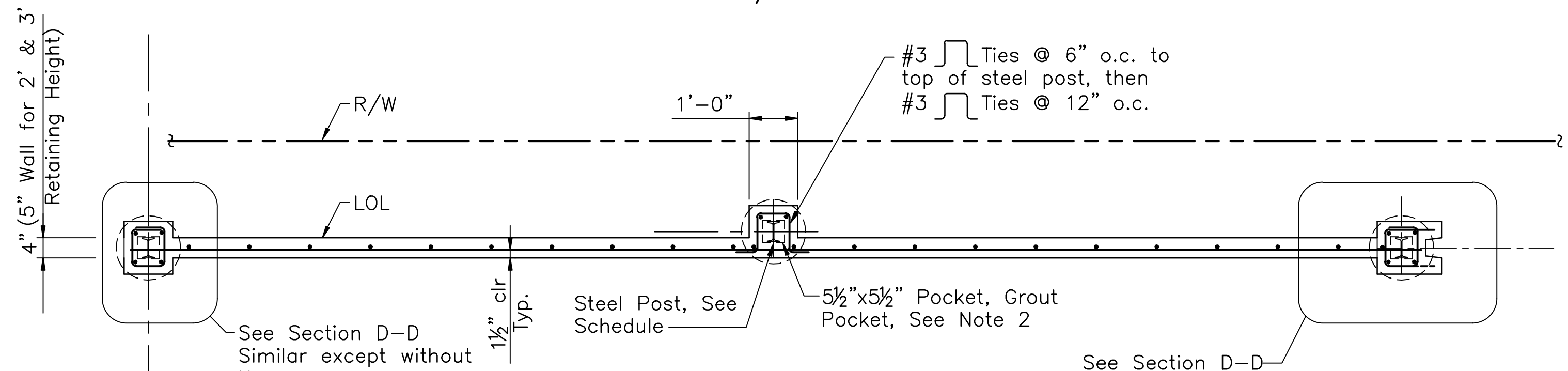
SECTION C-C
 1/2"=1'-0"



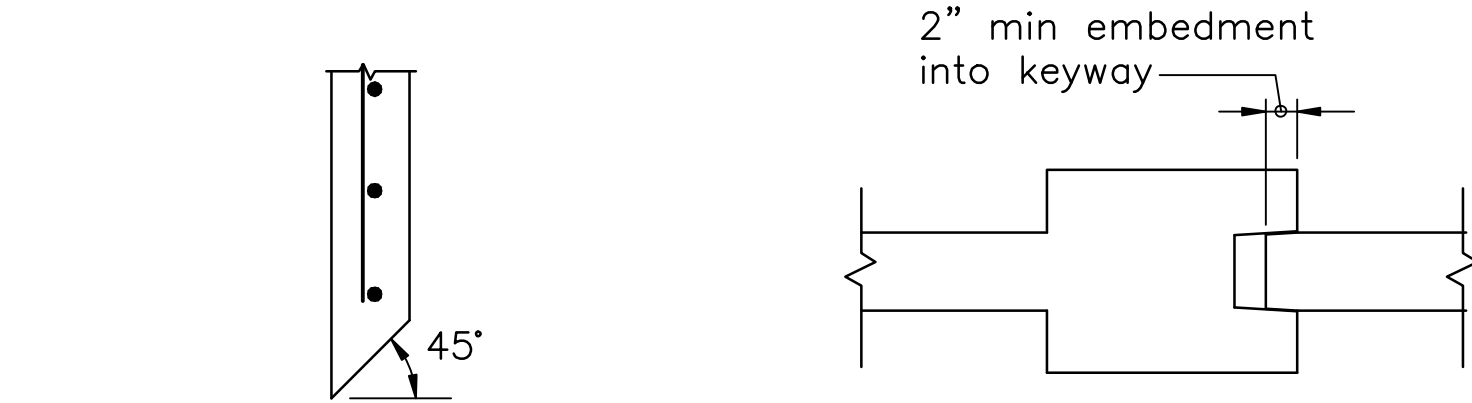
SECTION A-A - TYPICAL PANEL
 1/2"=1'-0"



WEEP HOLE ELEVATION
 NO SCALE

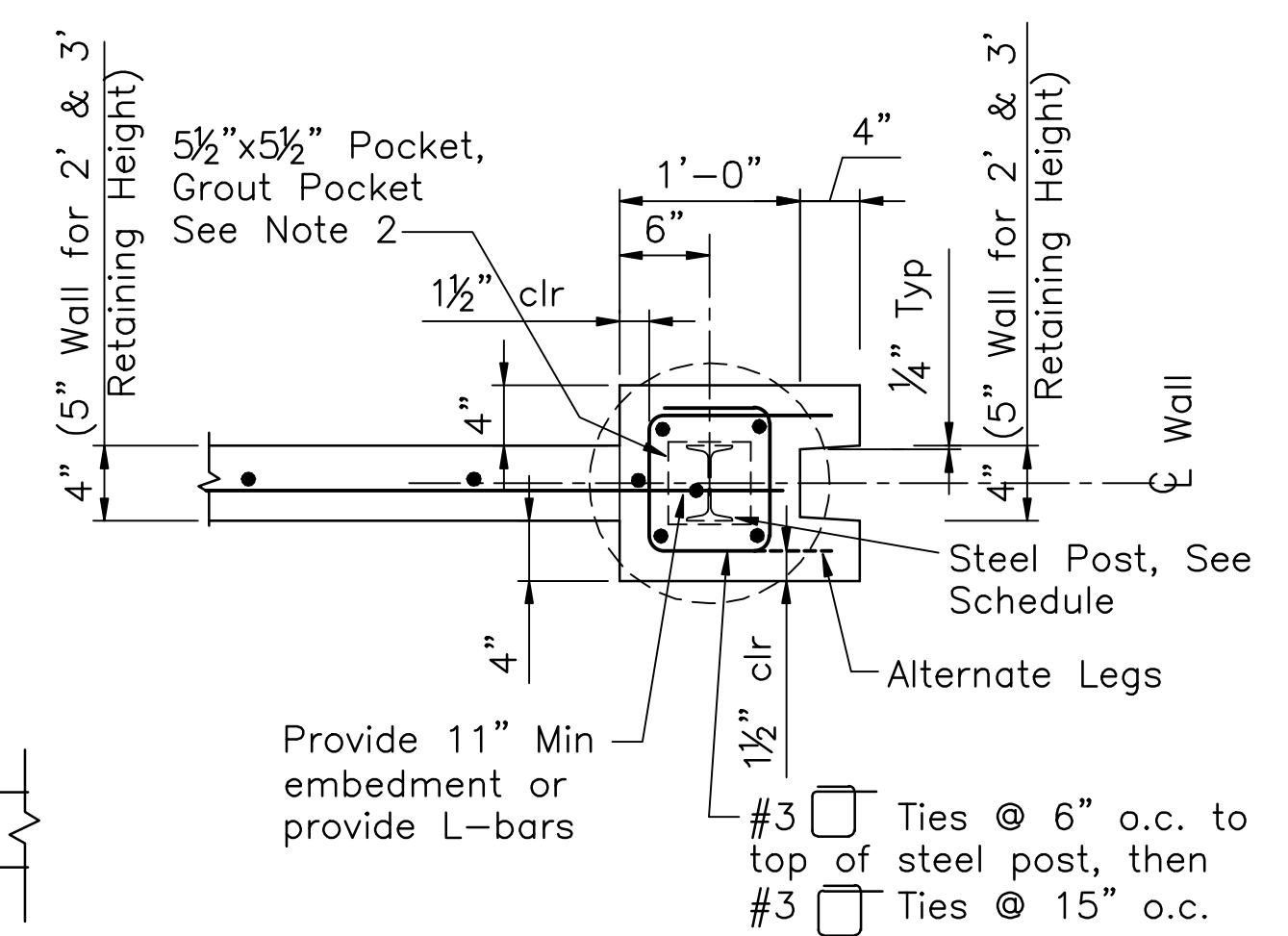


SECTION A-A - STARTER PANEL
 1/2"=1'-0"



BOTTOM OF PANEL DETAILS
 1"=1'-0"

TYP JOINT DETAILS
 1"=1'-0"



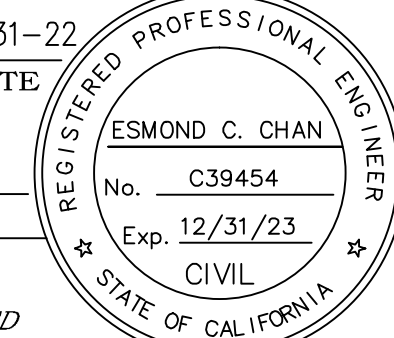
SECTION D-D
 1"=1'-0"

TYPE 2 WALL SCHEDULE						
Wall Height "H"	Retaining Height	Toe Condition	Steel Post Size	Steel Post Height	Length of CIDH Piles	Pilaster Reinforcing
8'-0"	2'-0"	Level/Slope Toe	S5x10	2'-6"	10'-0"	(2) #4 Each Face
9'-0"	3'-0"	Level/Slope Toe	S5x10	3'-0"	11'-0"	(2) #5 Each Face

- NOTES:**
- For Pier Details, General Notes and Connection to Existing Fence, See "Security Wall Detail" Sheet SW-4.
 - Pressure Grout Pocket with Vent Holes. Min Grout Strength is 3,000 psi at 28 Days.
 - 4"Ø Drains @ 16'-0" maximum center to center. For walls adjacent to sidewalks or curbs, provide 4" plastic pipe under the sidewalk to discharge thru curb face.
 - 6" square aluminum or galvanized steel wire 1/4" mesh hardware cloth, minimum wire diameter 0.025". Anchor firmly to backface.
 - One cubic foot pervious backfill material in a nonwoven filter fabric, securely tied.
 - Pervious backfill material continuous behind retaining wall.

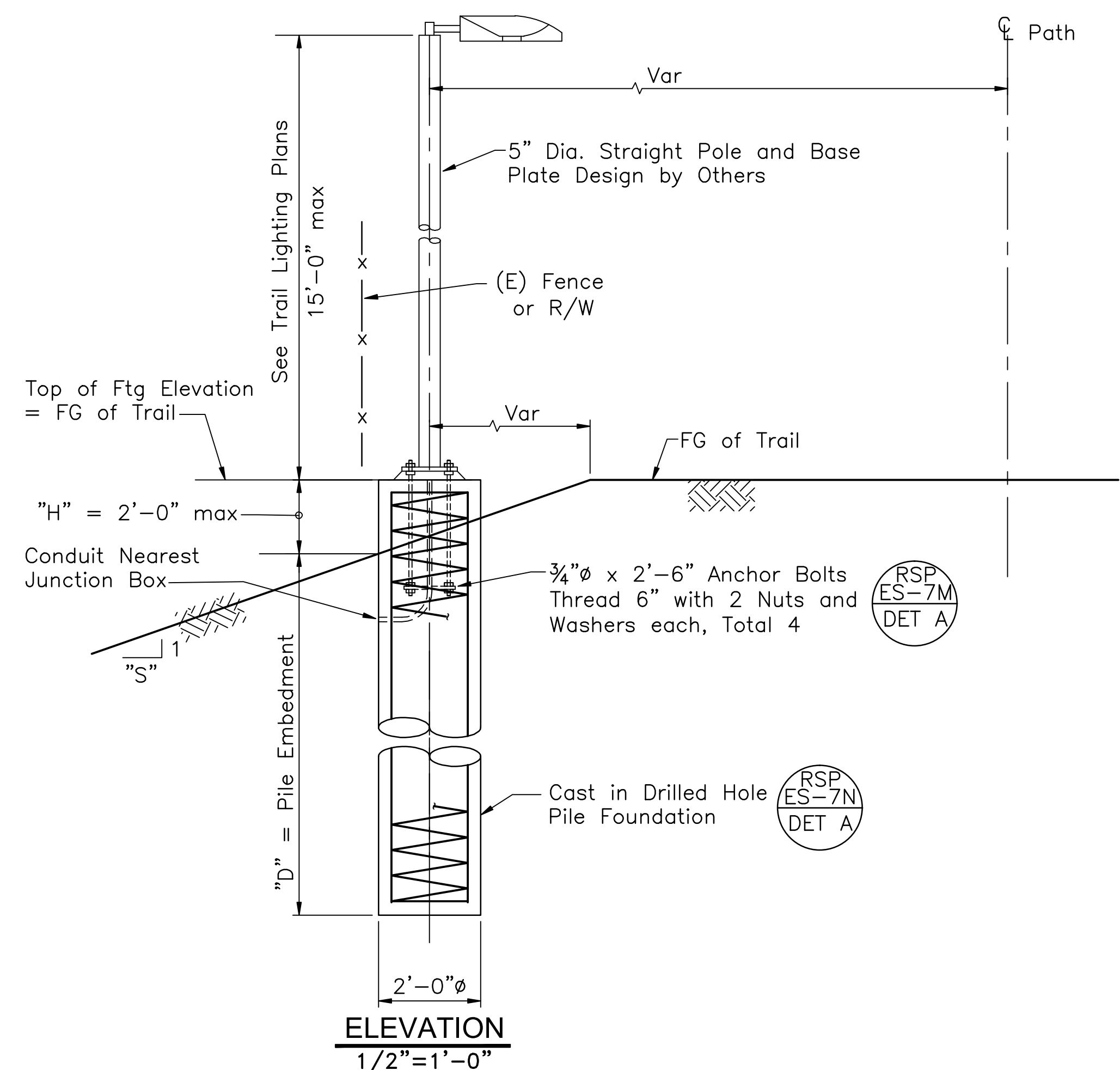
ADDITIVE BID B
SECURITY WALL DETAILS
SW-5

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	48	79


 REGISTERED CIVIL ENGINEER DATE 03-31-22
 PLANS APPROVAL DATE
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JMEC ENGINEERING INC.
 165 LENNON LANE, SUITE 106
 WALNUT CREEK, CA 94598
 CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 FUNCTIONAL SUPERVISOR
 DESIGNED BY BRYANT CHAN
 CHECKED BY GODWIN MOK
 REVISIONS:
 DATE 03/31/2022
 DATE REVISION 03/31/2022



LIGHTING FOUNDATION DETAILS

LIGHTING FOUNDATION SCHEDULE			
Type	Exposed Height "H"	Horizontal Slope "S"	Pile Embedment "D"
F1	0	0	6'-6"
F2	1	2 Max	7'-0"
F3	2	2 Max	7'-6"

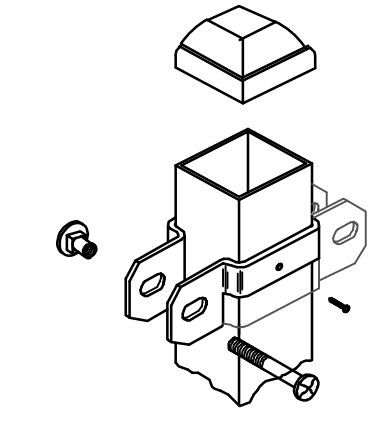
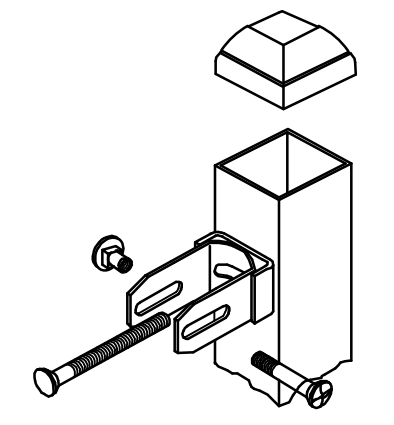
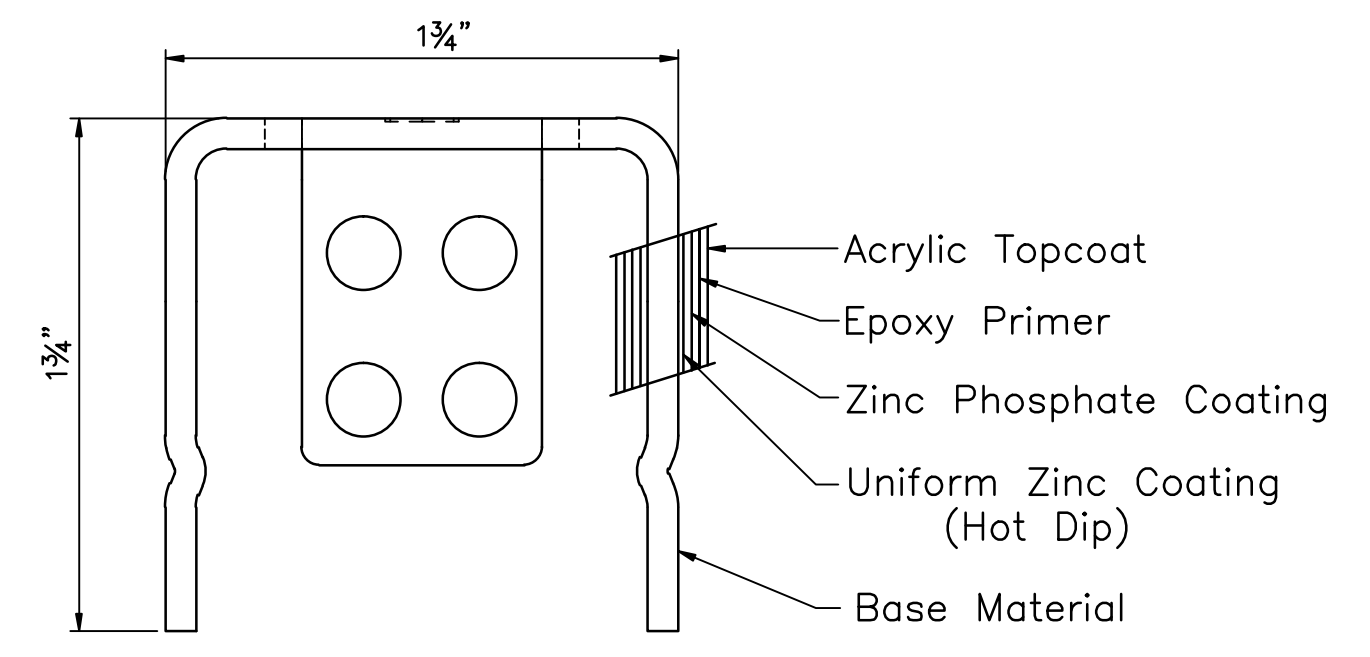
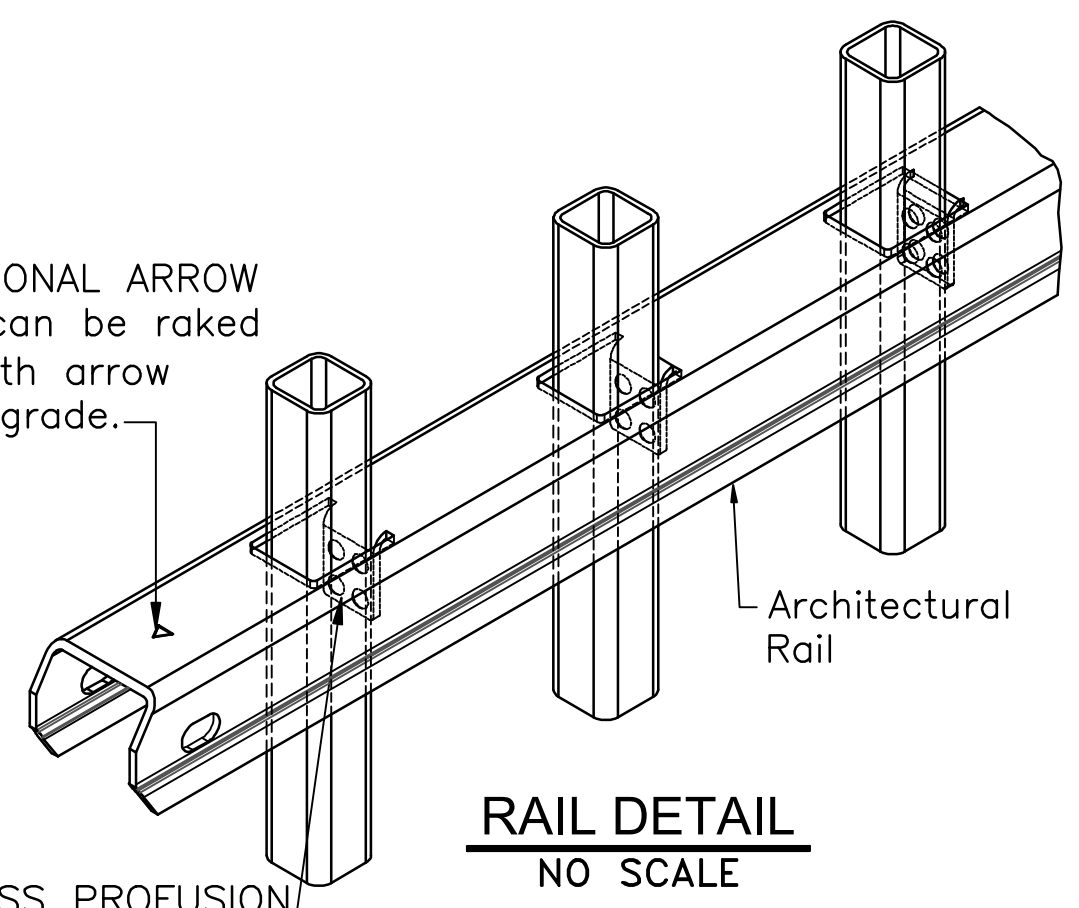
GENERAL NOTES:

- Lighting Foundation Design is based on LRFD Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals.
- See Civil Plans for exact locations of Lighting Foundations.

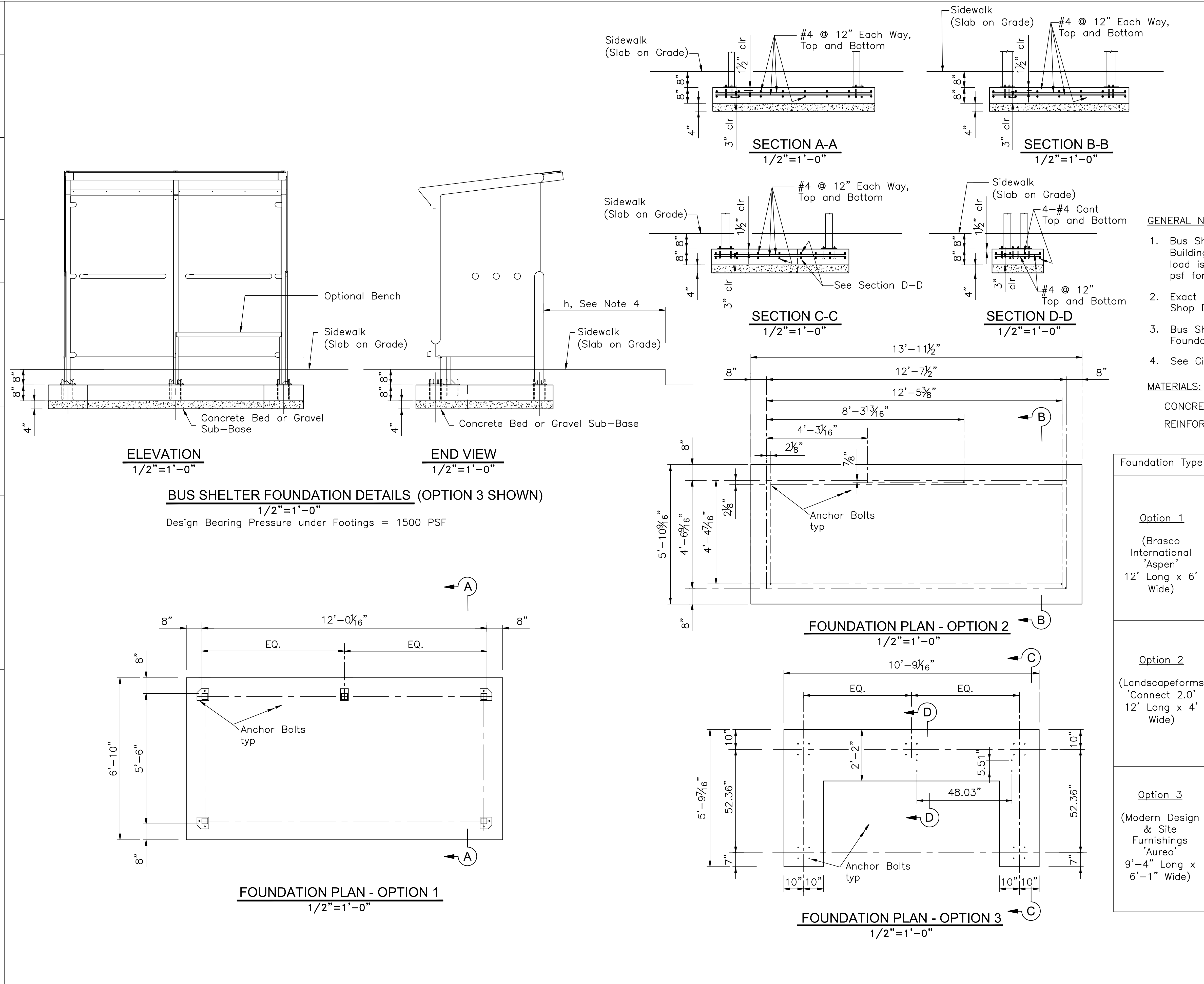
ADDITIVE BID B

RAKING DIRECTIONAL ARROW
 Welded panel can be raked 30" over 8" with arrow pointing down grade.

WELDING PROCESS PROFUSION
 No exposed welds, Same appearance on both sides



DATE PLOTTED => 25-Mar-2022
 TIME PLOTTED => 12:54
 LAST REVISION 03-31-22



BUS SHELTER FOUNDATION DETAILS (OPTION 3 SHOWN)

1/2"=1'-0"
 Design Bearing Pressure under Footings = 1500 PSF

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	49	79

REGISTERED CIVIL ENGINEER
 DATE 03-31-22
 ESMOND C. CHAN
 No. C39454
 Exp. 12/31/23
 CIVIL
 STATE OF CALIFORNIA

JMEC ENGINEERING INC.
 165 LENNON LANE, SUITE 106
 WALNUT CREEK, CA 94598

CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565

GENERAL NOTES:

1. Bus Shelter Foundation design is based on California Building Code 2019 (CBC 2019) and ASCE 7. Seismic load is 1.0g and wind load is 25 psf for Roof & 18 psf for Walls.
2. Exact Sizes, Material and Dimensions, see Bus Shelter Shop Drawings and Specifications.
3. Bus Shelters and Connection Details to Concrete Foundations Design by Others.
4. See Civil Plans for exact Locations of Bus Shelters.

MATERIALS:

CONCRETE : f'c = 4,000 psi, 28 Days compressive strength
 REINFORCEMENT : ASTM A-615 or ASTM A-706, Grade 60

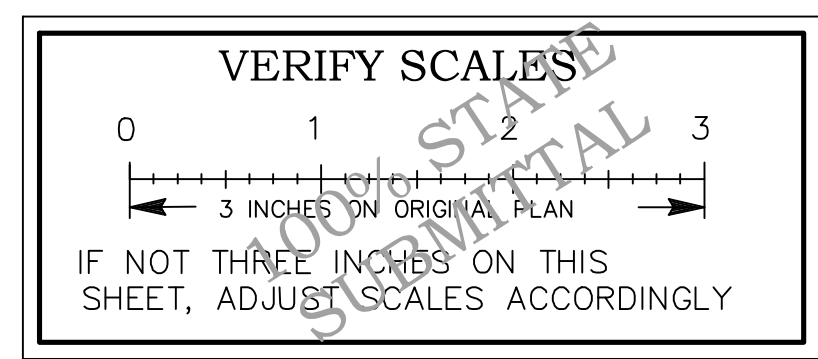
Foundation Type	Anchor Bolts	Anchor Bolt Pattern
Option 1 (Brasco International 'Aspen' 12' Long x 6' Wide)	1/2"-13x8" Threaded	
Option 2 (Landscapeforms 'Connect 2.0' 12' Long x 4' Wide)	1/2"-13x8" Threaded	
Option 3 (Modern Design & Site Furnishings 'Aureo' 9'-4" Long x 6'-1" Wide)	M16 x 250	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Functional Supervisor
 DESIGNED BY
 CHECKED BY
 REVISIONS:
 DATE: 03/31/2022
 DATE: 03/31/2022
 REVISED BY
 DATE REVISED

- BID ITEM NOTES:**
- SEE SHEET I-4 LEGEND FOR 'BASE BID' AND 'ADDITIVE BID' ITEMS.
 - BASE BID FOR IRRIGATION IS TO INCLUDE:
 - TREES- BUBBLER IRRIGATION
 - IRRIGATION (INCLUDES MAINLINE, CONTROLLERS, CONTROL WIRE, MEDIANS)
 - ADDITIVE ALTERNATES TO INCLUDE:
 - ALT. 'B'
 - VINES BUBBLER IRRIGATION
 - ALT 'C'
 - REMAINING IRRIGATION (COMPONENTS FOR IN LINE DRIP AND SPRAY)

PIPING AND EQUIPMENT SHOWN OUTSIDE OF PLANTING OR MULCH AREAS IS FOR CLARITY ONLY. INSTALL IN ADJACENT PLANTING AREA WHERE POSSIBLE.

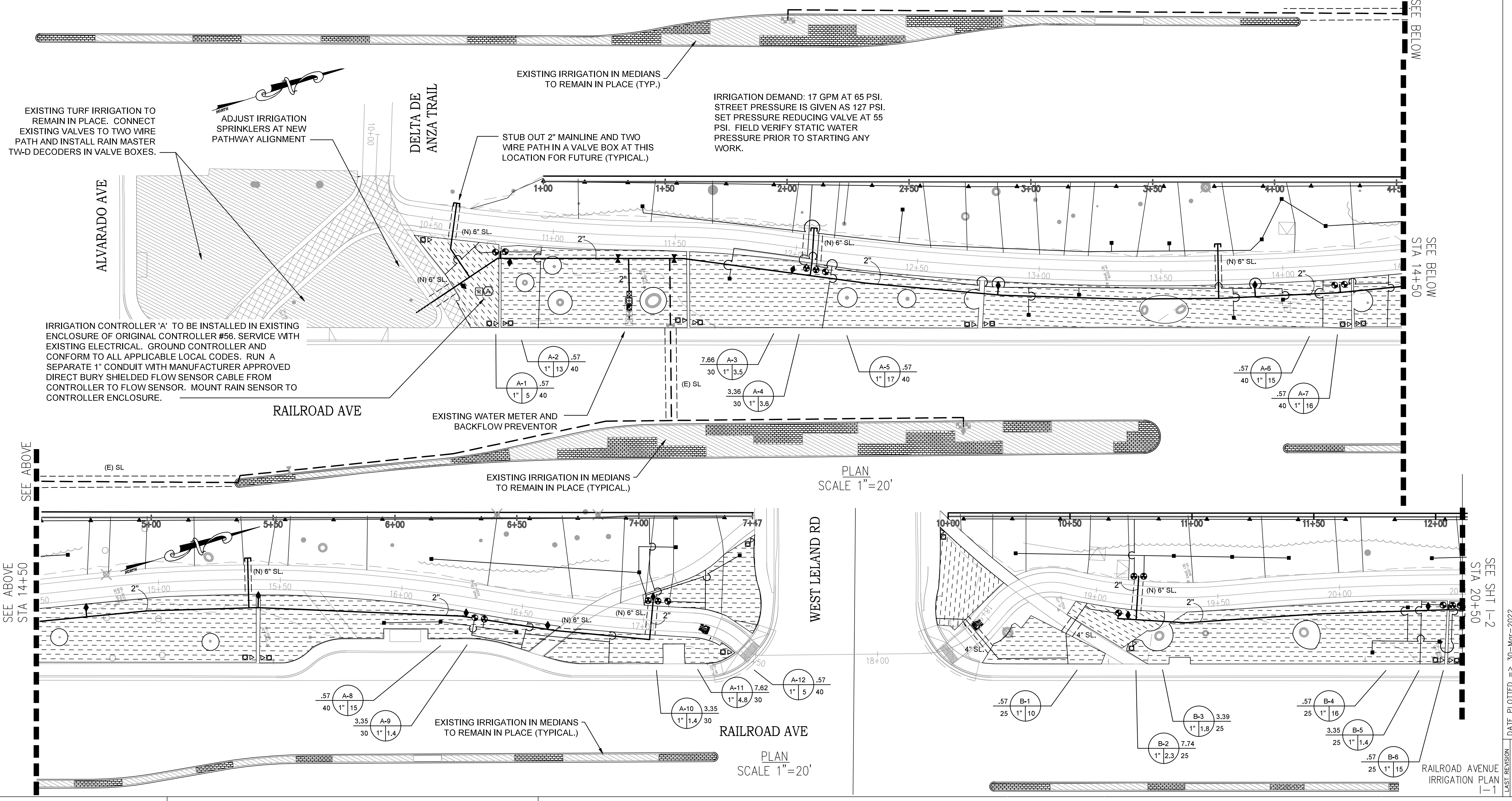
"I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN."



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	50	79

PETER G. ARNOLD
 LICENSED LANDSCAPE ARCHITECT DATE 03-31-22
 Signature: Peter G. Arnold
 Renewal Date: 03/31/22
 State of California License No. 33322

PLANS APPROVAL DATE
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 ABEY ARNOLD ASSOCIATES
 1005 A STREET, SUITE 305
 SAN RAFAEL, CA 94901
 CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



- BID ITEM NOTES:**
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 - BASE BID FOR IRRIGATION IS TO INCLUDE:
 - TREES- BUBBLER IRRIGATION
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 - VINES BUBBLER IRRIGATION
 - ALT 'C'
 - REMAINING IRRIGATION (COMPONENTS FOR IN LINE DRIP AND SPRAY)

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

BROOKWATER
IRRIGATION CONSULTANTS
TWO CROW CANYON COURT, SUITE 100
SAN RAMON, CALIFORNIA 94583
TEL: 925.353.0417 FAX: 925.853.9397
E-MAIL: JANET@BROOKWATER.COM



VERIFY SCALES

0 1 2 3
3 INCHES ON ORIGINAL PLAN
IF NOT THREE INCHES ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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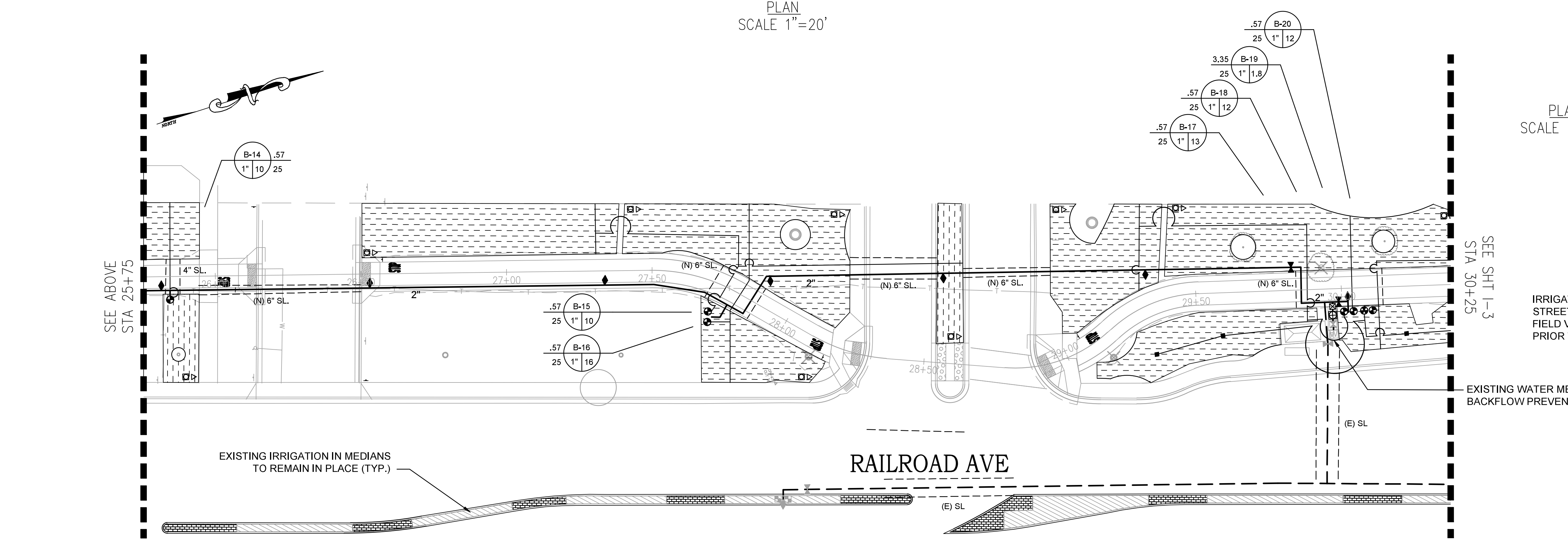
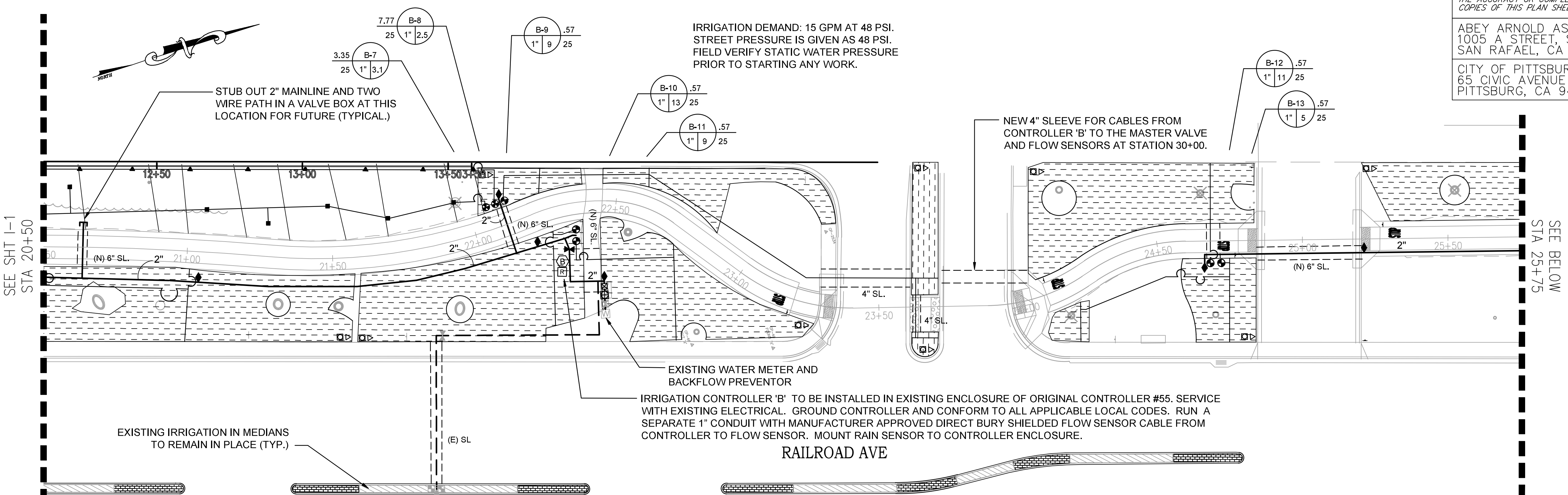
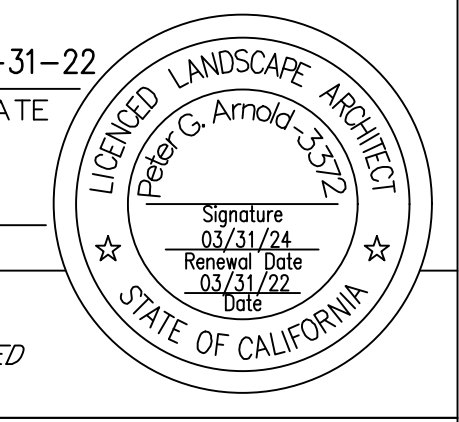
PETER G. ARNOLD
LICENSED LANDSCAPE ARCHITECT DATE 03-31-22

PLANS APPROVAL DATE

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ABEY ARNOLD ASSOCIATES
1005 A STREET, SUITE 305
SAN RAFAEL, CA 94901

CITY OF PITTSBURG
65 CIVIC AVENUE
PITTSBURG, CA 94565



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
FUNCTIONAL SUPERVISOR
DESIGNED BY
CHECKED BY
REVISOR BY
DATE
DATE REVISOR

DATE 03/31/2022
DATE REVISOR 03/31/2022

BORDER LAST REVISED 8/1/2010
USERNAME => jeffb
DWG FILE => pittsburg bart-irrigation-rev 1of2.dwg

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT PROJECT NUMBER & PHASE 0421000238 EA 2W580

RAILROAD AVENUE IRRIGATION PLAN I-2

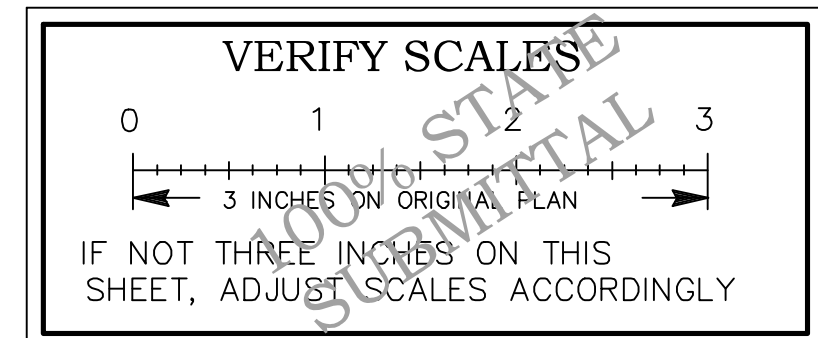
DATE PLOTTED => 30-Mar-2022
TIME PLOTTED => 09:21

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR BY
Caltrans		CHECKED BY	DATE REVISOR
			DATE
			03/31/2022
			03/31/2022

- BID ITEM NOTES:**
- SEE SHEET I-4 LEGEND FOR 'BASE BID' AND 'ADDITIVE BID' ITEMS.
 - BASE BID FOR IRRIGATION IS TO INCLUDE:
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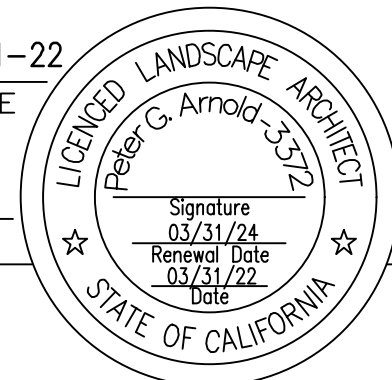
"I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN."

BROOKWATER
IRRIGATION CONSULTANTS
TWO CROW CANYON COURT, SUITE 100
SAN RAMON, CALIFORNIA 94583
TEL 925.555.0417 FAX 925.555.0357
E-MAIL JANET@BROOKWATER.COM



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	52	79

PETER G. ARNOLD *Peter G. Arnold* 03-31-22
LICENSED LANDSCAPE ARCHITECT DATE

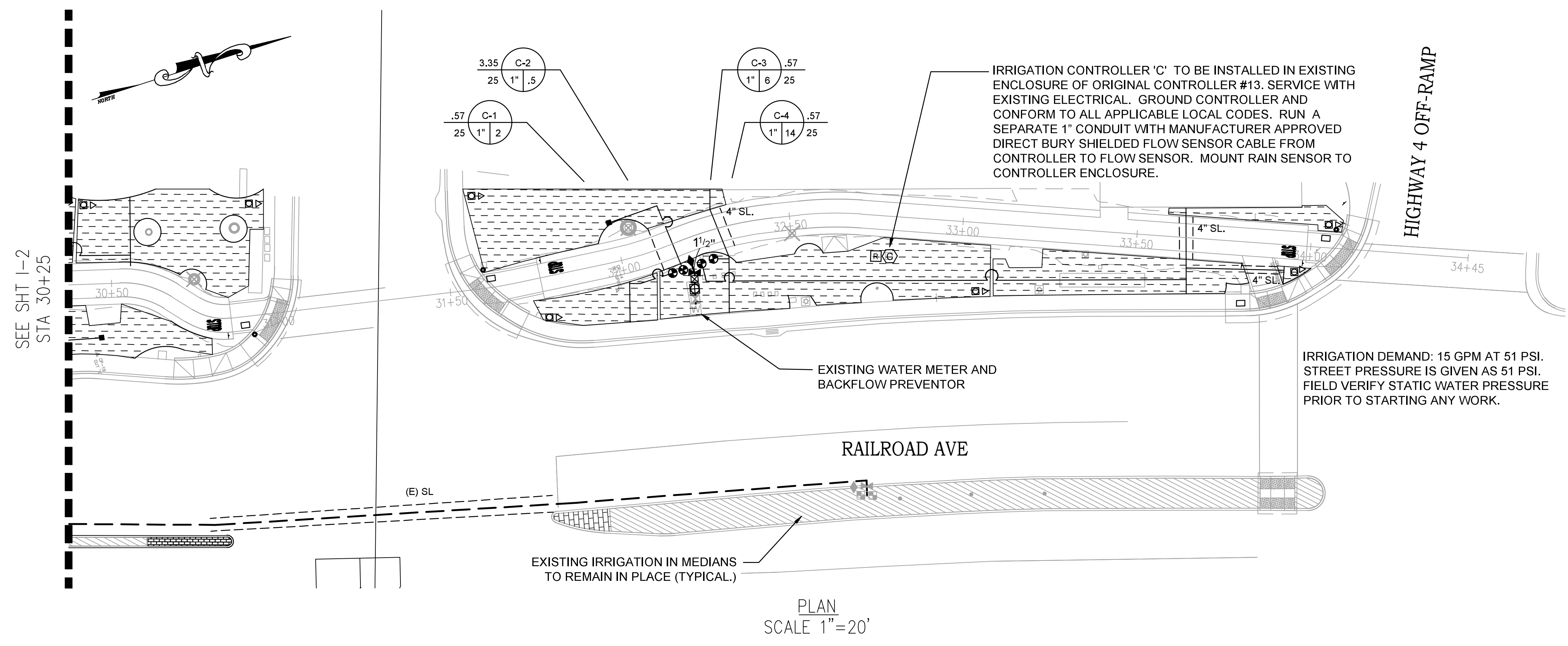


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ABEY ARNOLD ASSOCIATES
1005 A STREET, SUITE 305
SAN RAFAEL, CA 94901

CITY OF PITTSBURG
65 CIVIC AVENUE
PITTSBURG, CA 94565

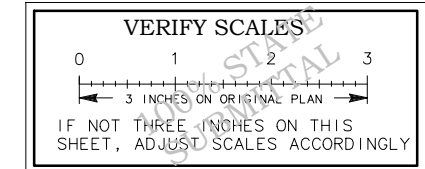


SEE SHT I-2
STA 30+25

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- BID ITEM NOTES:**
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	53	79

REGISTERED CIVIL ENGINEER _____ DATE _____

PLANS APPROVAL DATE _____

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CITY OF PITTSBURG
65 CIVIC AVENUE
PITTSBURG, CA 94565

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

FUNCTIONAL SUPERVISOR NAME

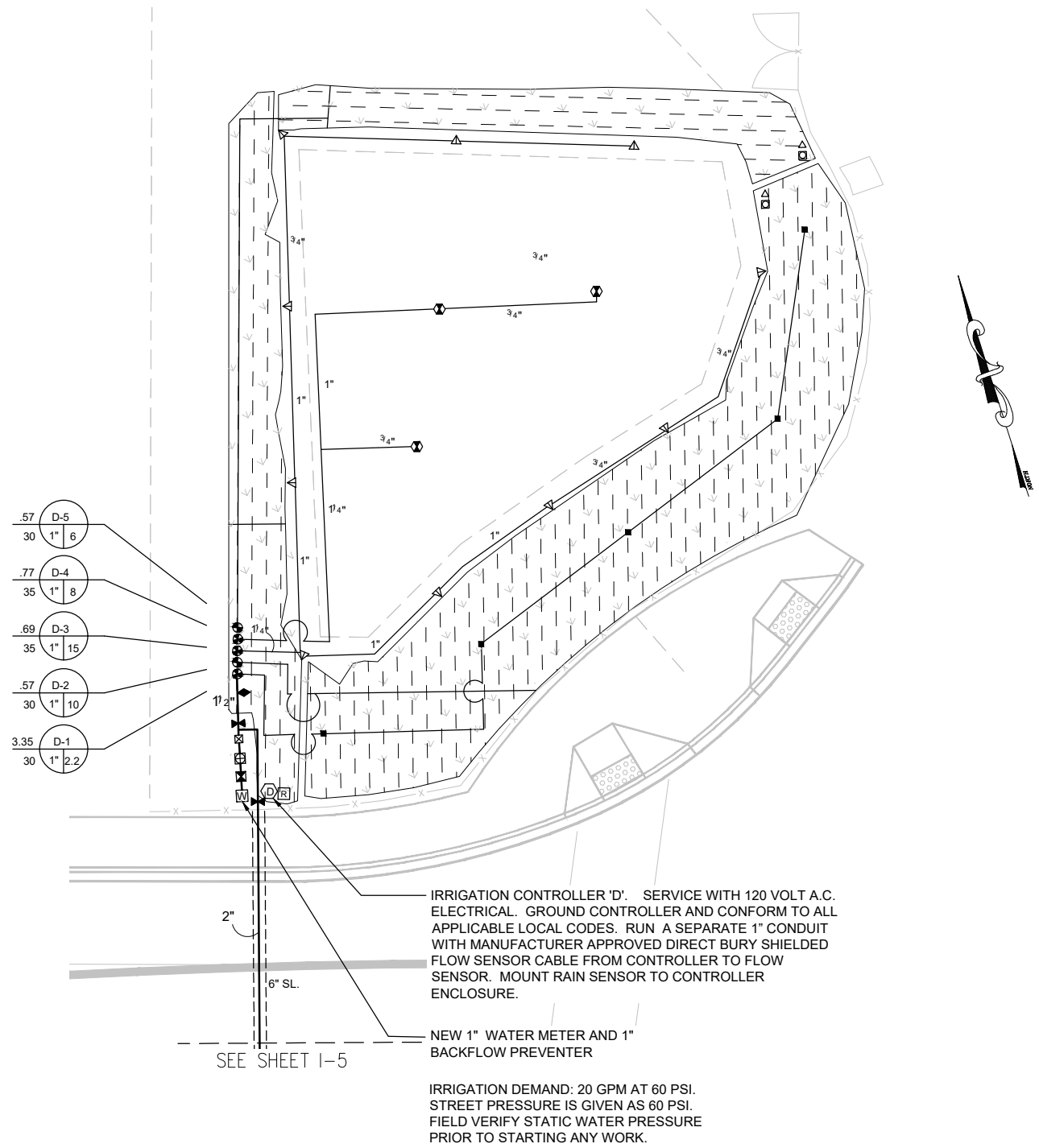
REVISOR NAME: PETER G. ARNOLD

DATE REVISOR: _____

CALCULATED BY: _____

DESIGNED BY: _____

CHECKED BY: _____



IRRIGATION LEGEND

SYMBOL	MODEL NUMBER	DESCRIPTION	PSI	FLOW RATE (GPM)	MAX. RADIUS	MAX. SPACING	BID ITEM
⊕	I-PRO1200-SI-PR40-CV/MP3000-360	IRRITROL 12" POP-UP SHRUB SPRAY W/ MP ROTATOR NOZ	40	3.64	30'	29'	C
∇	I-PRO1200-SI-PR40-CV/MP3000-360	IRRITROL 12" POP-UP SHRUB SPRAY W/ MP ROTATOR NOZ	40	.86-2.12	30'	29'	C
▲	FB-25-PC	TORO 570 FLOOD BUBBLER INSTALL ONE BUBBLERS PER SHRUB	30	.25			B
■	570-4P-PRXCOM-10-SBH-PC3	TORO 4" POP-UP SPRINKLER W/ STREAM BUBBLER INSTALL TWO BUBBLERS PER TREE	30	.22			BASE
△	TSLOV	NETAFIM MANUAL FLUSH VALVE					C
NOT SHOWN	TLAVRV	NETAFIM AIR/VACUUM RELIEF VENT					C
□	OPERIND	RAINBIRD OPERATION INDICATOR					C
■	- / TW-D-x	EXISTING VALVE TO REMAIN (ADD RAIN MASTER TWICE TWO WIRE DECODER)					BASE
⊕	100-PEB-PRS-D / TW-D-x / 1419-12 / BTU-100-E	RAIN BIRD REMOTE CONTROL VALVE WITH PRESSURE REGULATION WITH RAIN MASTER TWICE DECODER, NDS SCHEDULE 80 UNION BALL VALVE AND CARSON VALVE BOX					BASE
⊕	XCZ-100-PRB-LC / TW-D-x / BTU-100-E / 1419-12	RAIN BIRD WIDE FLOW CONTROL ZONE KIT W/ REMOTE CONTROL VALVE & PRESSURE REGULATING BASKET FILTER WITH RAIN MASTER TWICE TWO WIRE DECODER, NDS SCHEDULE 80 UNION BALL VALVE AND CARSON VALVE BOX					B, & C
◆	44 NP 1" / 910	RAINBIRD 44LRC QUICK COUPLING VALVE WITH CARSON 10" ROUND VALVE BOX					BASE
◆	EXISTING	QUICK COUPLING VALVE					BASE
⊕	T113-LF	NIBCO LEAD FREE GATE VALVE					BASE
⊕	EXISTING	GATE VALVE					BASE
⊕	FSI-T10-001	CREATIVE SENSOR TECHNOLOGY 1" FLOW SENSOR					BASE
⊕	3300	SUPERIOR MASTER CONTROL VALVE (NORMALLY OPENED) - SIZE AS NOTED ON PLANS					BASE
⊕	LF600L	WILKINS LEAD FREE PRESSURE REGULATING VALVE - SIZE AS NOTED ON PLANS					BASE
⊕	LF825Y-BV-1" / SBBC-30SS	FEBCO LEAD FREE REDUCED PRESSURE BACKFLOW PREVENTER IN STRONG BOX (SS) ENCLOSURE					BASE
⊕	EXISTING	REDUCED PRESSURE BACKFLOW PREVENTER IN ENCLOSURE					BASE
⊕	RS500 / RGVRS	IRRITROL WIRED RAIN SENSOR IN STRONG BOX RAIN SWITCH ENCLOSURE MOUNTED TO CONTROLLER PEDESTAL					BASE
⊕	-	WATER METER BY CITY					BASE
⊕	SA9-RM6-TW/GTFVSV-1/DX3CA/TW-D-1/TW-LA-1	RAINMASTER DX3 CONTROLLER ASSEMBLIES PROVIDED BY JOHN DEERE GREEN TECH TO BE INSTALLED IN EXISTING ENCLOSURE FOR CONTROLLER A, B AND C					BASE
⊕	SA9-RM6-TW/GTFVSV-1/DX3CA/TW-D-1/TW-LA-1/SS	RAINMASTER DX3 CONTROLLER ASSEMBLIES PROVIDED BY JOHN DEERE GREEN TECH TO BE INSTALLED IN STRONGBOX ENCLOSURE FOR CONTROLLER D					BASE
⊕	C-1	CONTROLLER AND STATION NUMBER					BASE
⊕	1.6	APPLICATION RATE (INCHES)					BASE
⊕	1" 15 30	OPERATING PRESSURE (PSI) OR AIR RELIEF VALVE QUANTITY					BASE
⊕		APPROXIMATE GALLONS PER MINUTE					BASE
⊕		REMOTE CONTROL VALVE SIZE					BASE
⊕		MAIN LINE: 1120-SCHEDULE 40 PVC SOLVENT WELD PIPE WITH SCHEDULE 80 AND SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 18" COVER.					BASE
⊕		EXISTING MAINLINE TO REMAIN					BASE
⊕		LATERAL LINE: SCHEDULE 40 PVC SOLVENT WELD PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 12" COVER.					BASE, B, & C
⊕		SLEEVE (SL): SCHEDULE 40 PVC PLASTIC PIPE. 24" COVER.					BASE
⊕		SUB-SURFACE DRIPLINE: NETAFIM TLCV6-12025. 2" COVER (12" EMITTER SPACING, .53 GPH PER EMITTER)					C
⊕		SUB-SURFACE DRIPLINE (FOR BIORETENTION BASINS): NETAFIM TLCV6-12025. 2" COVER (12" EMITTER SPACING, .92 GPH PER EMITTER)					C
⊕		EXISTING IRRIGATION TO REMAIN					BASE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR
 NAME
 CALCULATED-DESIGNED BY
 CHECKED BY
 NAME: PETER G. ARNOLD
 NAME: PETER G. ARNOLD
 REVISED BY
 DATE REVISED

BROOKWATER
 IRRIGATION CONSULTANTS
 TWO CROW CANYON COURT, SUITE 100
 SAN RAMON, CALIFORNIA 94583
 TEL 925.855.0417 FAX 925.855.0357
 E-MAIL JANET@BROOKWATER.COM



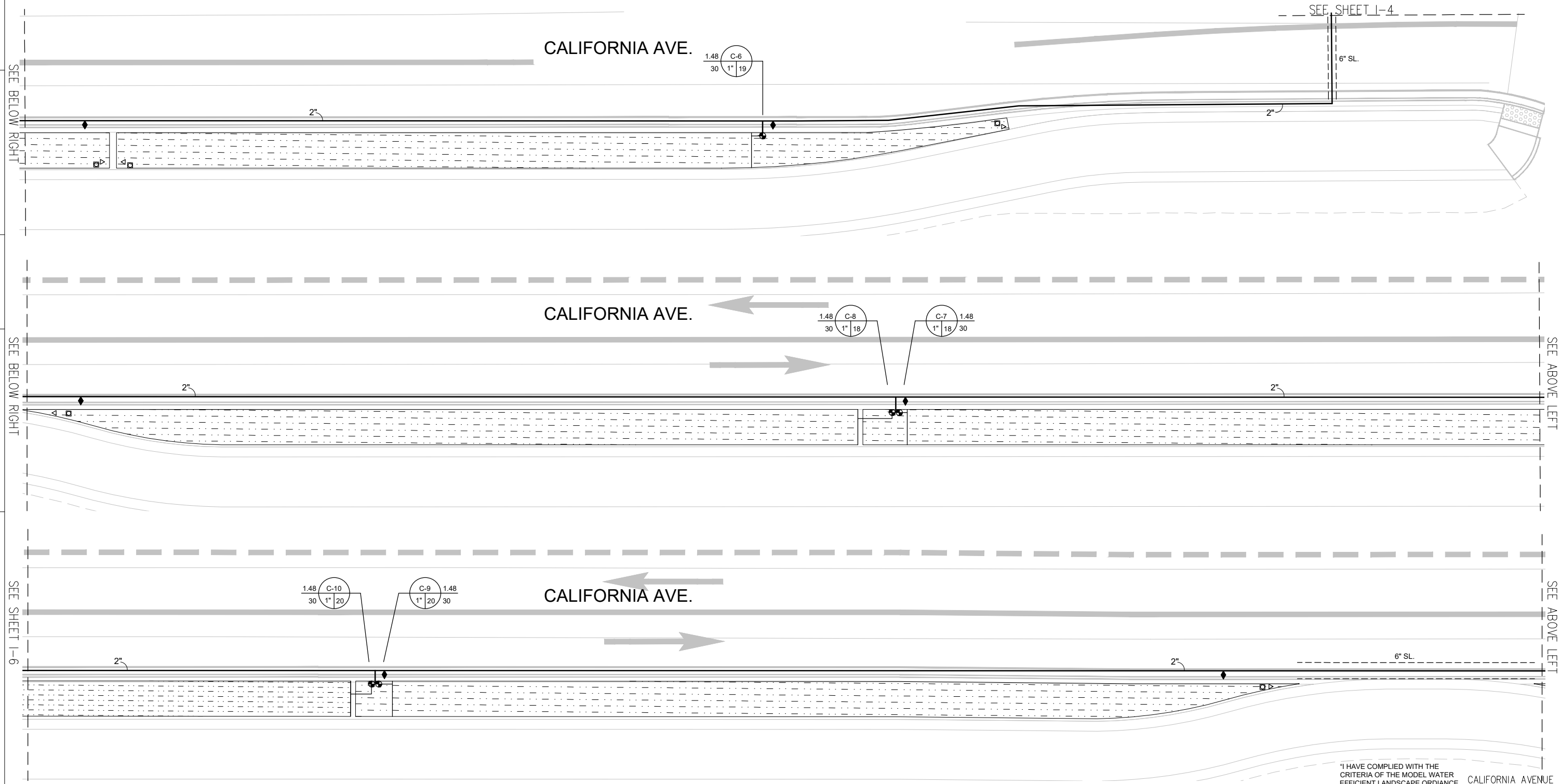
VERIFY SCALES
 0 1 2 3
 3 INCHES ON ORIGINAL PLAN
 IF NOT THREE INCHES ON THIS SHEET, ADJUST SCALES ACCORDINGLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	54	79

REGISTERED CIVIL ENGINEER DATE
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.
 CALIFORNIA AVENUE IRRIGATION PLAN
 1-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
St. Caltrans
 FUNCTIONAL SUPERVISOR NAME
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 NAME: PETER G. ARNOLD NAME: PETER G. ARNOLD
 REVISED BY DATE REVISED

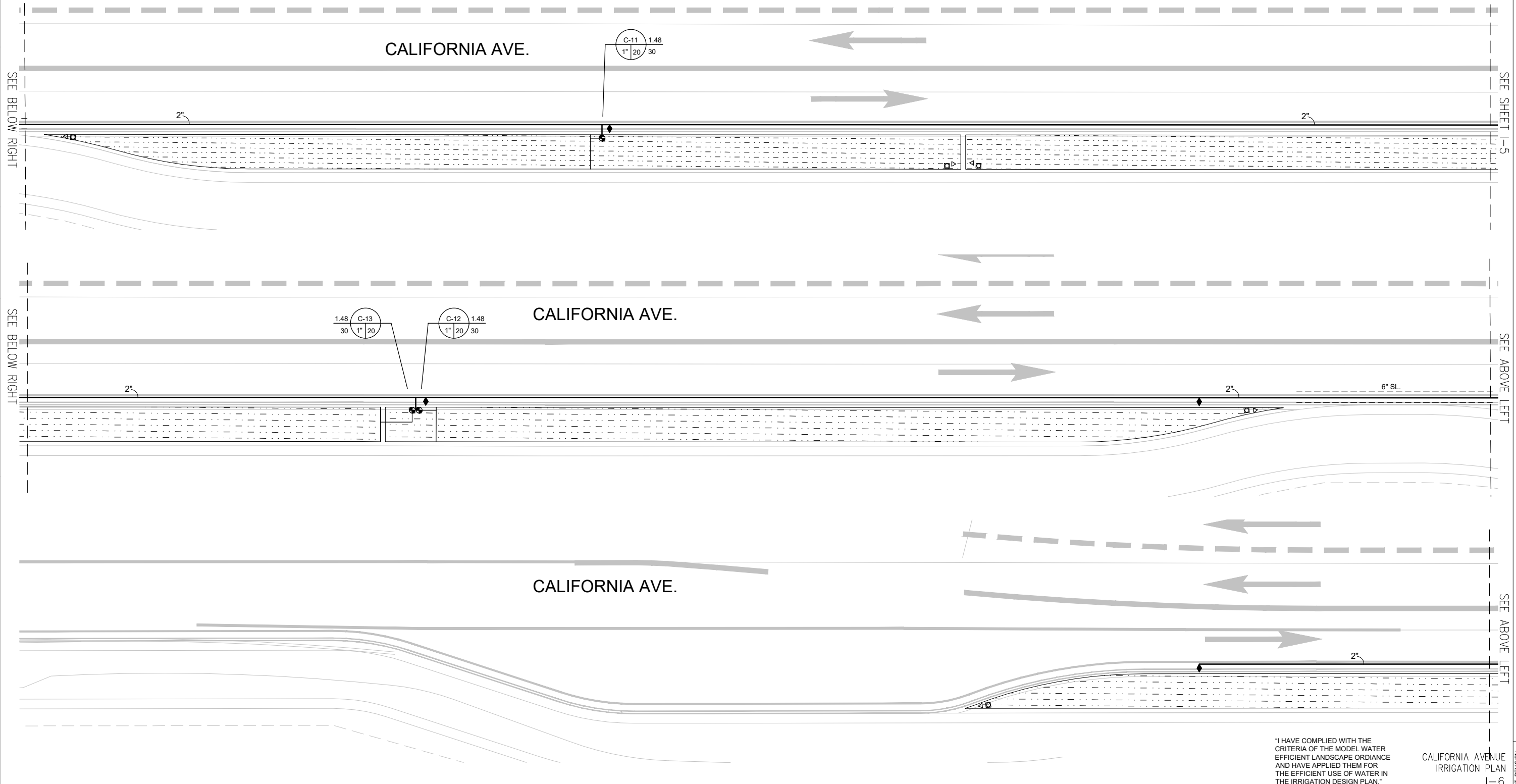
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VERIFY SCALES
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 ← 3 INCHES ON ORIGINAL PLAN →
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 CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



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

CALIFORNIA AVENUE IRRIGATION PLAN 1-6

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

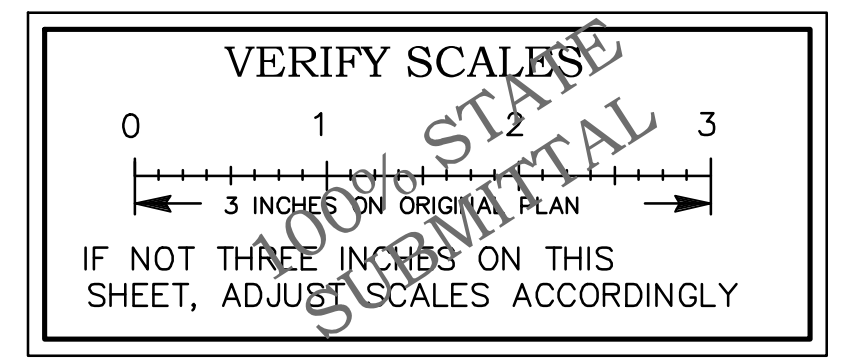
IRRIGATION NOTES

- THE CONTRACTOR SHALL REVIEW RELATED DRAWINGS AND SHALL ENSURE COORDINATION WITH ALL APPLICABLE TRADES PRIOR TO SUBMITTING BID.
- THE IRRIGATION SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES BY LICENSED CONTRACTORS AND EXPERIENCED WORKMEN. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES RELATING TO HIS WORK.
- THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM, PLANTING AND ARCHITECTURAL FEATURES.
- PARALLEL PIPES MAY BE INSTALLED IN COMMON TRENCH. PIPES ARE NOT TO BE INSTALLED DIRECTLY ABOVE ONE ANOTHER. TRENCHES SHALL BE AMPLE SIZE TO PERMIT THE PIPES TO BE LAID AT HE ELEVATIONS INTENDED AND TO PERMIT SPACE FOR JOINING.
- CONTRACTOR SHALL RESTORE SURFACES, EXISTING UNDERGROUND INSTALLATIONS, ETC., DAMAGED OR CUT AS A RESULT OF EXCAVATIONS, TO ORIGINAL CONDITIONS IN A MANNER APPROVED BY THE OWNER'S REPRESENTATIVE.
- DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC.. HE SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC. CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO THE EXCAVATION OF TRENCHES. CONTRACTOR IS TO REPAIR ANY DAMAGE CAUSED BY HIS WORK AT NO ADDITIONAL COST TO THE OWNER.
- DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAY BE REQUIRED. CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL WORK AND PLAN WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THE WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS, PLANTING, AND ARCHITECTURAL FEATURES.
- ELECTRICAL CONTRACTOR TO SUPPLY 120 VAC (2.5 AMP) SERVICE TO CONTROLLER LOCATION. IRRIGATION CONTRACTOR TO MAKE FINAL CONNECTION FROM ELECTRICAL STUB-OUT TO CONTROLLER. IRRIGATION TWO-WIRE PATH SHALL BE MANUFACTURER RECOMMENDED #14, U.L. APPROVED FOR DIRECT BURIAL. (REFER TO TWO-WIRE NOTES.)
- EACH CONTROLLER SHALL HAVE ITS OWN INDEPENDENT GROUNDING ROD OR PLATE. CONTROLLER AND VALVE GROUNDING SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
- REMOTE CONTROL VALVES SHALL BE PROGRAMMED IN SEQUENCE AS SHOWN ON PLANS.
- SPLICING OF 24-VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 24" COIL OF EXCESS WIRE AT EACH SPLICE. ATTACH A LABEL TO CONTROL WIRE AT THE CONTROLLER AND ATTACH AN ID TAG AT EACH REMOTE CONTROL VALVE INDICATING CONTROLLER AND STATION NUMBER.
- VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN GROUND COVER/SHRUB AREAS WHERE POSSIBLE (NOT IN LAWN AREA.)
- INSTALL VALVE BOXES MINIMUM 12" FROM AND PERPENDICULAR TO WALK, CURB, LAWN, BUILDING OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, LAWN, ETC. AND BOXES SHALL BE MINIMUM 12" APART. SHORT SIDE OF VALVE BOXES SHALL BE PARALLEL TO WALK, CURB, LAWN, ETC.
- PRESSURE REGULATING DEVICES ARE REQUIRED IF WATER PRESSURE IS BELOW OR EXCEEDS THE RECOMMENDED PRESSURE OF THE SPECIFIED IRRIGATION DEVICES.
- LOCATE QUICK COUPLING VALVE 12" FROM HARDSCAPE AREA.
- THOROUGHLY FLUSH MAIN LINE BEFORE INSTALLING VALVES.
- ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE DESIGNATED ON THE PLANS.
- CHECK VALVES OR ANTI-DRAIN VALVES ARE REQUIRED ON ALL SPRINKLER HEADS WHERE LOW POINT DRAINAGE COULD OCCUR. FOR DRIP OR BUBBLER CIRCUITS, INSTALL KING BROS. CV SERIES CHECK VALVES IN LATERAL LINES FOR EVERY 10' OF ELEVATION CHANGE.
- FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALKS, ROADWAYS AND/OR BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF FIXED ARC (OR AN ADJUSTABLE ARC IF FIXED ARC DOES NOT MATCH THE ARC TO BE IRRIGATED) TO FIT THE SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM. ALL MAIN LINES SHALL BE FLUSHED PRIOR TO THE INSTALLATION OF IRRIGATION HEADS. AT 30 DAYS AFTER INSTALLATION EACH SYSTEM SHALL BE FLUSHED TO ELIMINATE GLUE AND DIRT PARTICLES FROM THE LINES.
- WHEN VERTICAL OBSTRUCTION (STREET LIGHTS, TREES, FIRE HYDRANTS, ETC.) INTERFERE WITH THE SPRAY PATTERN OF THE HEADS SO AS TO PREVENT PROPER COVERAGE, FIELD ADJUST THE SPRINKLER SYSTEM BY INSTALLING A QUARTER, THIRD OR HALF CIRCLE HEAD AT THE SIDS OF THE OBSTRUCTION SO AS TO PROVIDE PROPER COVERAGE. ADD ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- NOTIFY ARCHITECT OF ANY ASPECTS OF LAYOUT THAT WILL PROVIDE INCOMPLETE OR INSUFFICIENT WATER COVERAGE OF PLANT MATERIAL AND DO NOT PROCEED UNTIL HIS INSTRUCTIONS ARE OBTAINED.

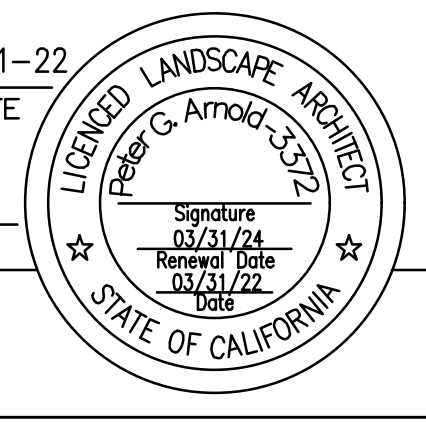
- LOCATE BUBBLERS ON UPHILL SIDE OF TREES. TREE BUBBLERS ARE FOR ESTABLISHMENT AND DROUGHT CONDITIONS. THEY ARE TO BE TURNED OFF AFTER TREES ARE ESTABLISHED AND TURNED ON DURING DROUGHT CONDITIONS.
- IN ADDITION TO THE SLEEVES AND CONDUITS SHOWN ON THE DRAWINGS, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF SLEEVES AND CONDUITS OF SUFFICIENT SIZE UNDER ALL PAVED AREAS.
- ALL EXCAVATIONS ARE TO BE FILLED WITH COMPACTED BACKFILL. BACKFILL MATERIAL SHALL BE THE EARTH EXCAVATED FROM THE TRENCH AND FREE OF ROCKS AND OTHER FOREIGN COURSE MATERIAL. COMPACT BACKFILL TO A MINIMUM OF 90 PERCENT OF ORIGINAL SOIL DENSITY. REPAIR ALL SETTLED TRENCHES PROMPTLY, FOR A PERIOD OF 1 YEAR AFTER COMPLETION OF WORK.
- CONTRACTOR SHALL WARRANT THAT THE IRRIGATION SYSTEM WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF 1 YEAR AFTER FINAL ACCEPTANCE OF WORK.
- THE SPRINKLER 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.
- IRRIGATION DEMAND: REFER TO IRRIGATION POINTS OF CONNECTION.
- OPERATE IRRIGATION CONTROLLER(S) BETWEEN THE HOURS OF 10:00 PM AND 7:00 AM.
- NOTIFY ALL LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.
- NOTIFY UNDERGROUND SERVICE ALERT AT 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.
- AT LEAST 10 DAYS PRIOR TO COMPLETION OF CONSTRUCTION, PROVIDE THE OWNER WITH A MAINTENANCE MANUAL. DATA SHALL BE ON 8 1/2" X 11" SHEETS, IN A 3-RING BINDER AND SHALL INCLUDE:
 - INDEX SHEET WITH CONTRACTOR'S CONTACT INFORMATION AND LIST OF EQUIPMENT WITH LOCAL MANUFACTURER'S REPRESENTATIVES.
 - CATALOG AND PARTS SHEET OF ALL MATERIAL AND EQUIPMENT.
 - COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS FOR ALL EQUIPMENT.
 - COMPLETE AND DATED MANUFACTURER'S WARRANTIES.
- AT COMPLETION OF MAINTENANCE PERIOD, PROVIDE OWNER WITH THREE (3) EACH OF ALL OPERATING AND SERVICING KEYS AND WRENCHES REQUIRED FOR COMPLETE MAINTENANCE AND OPERATION OF ALL HEADS AND VALVES. PROVIDE TWO (2) EACH OF KEYS AND HOSE SWIVELS FOR QUICK COUPLERS AND KEYS TO CONTROLLER CABINETS AND/OR ENCLOSURES.
- A DIAGRAM OF THE IRRIGATION PLAN SHOWING HYDROZONES SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES.
- A CERTIFICATE OF COMPLETION SHALL BE FILLED OUT AND CERTIFIED BY EITHER THE DESIGNER OF THE LANDSCAPE PLANS, IRRIGATION PLANS, OR THE LICENSED LANDSCAPE CONTRACTOR FOR THE PROJECT.
- AN IRRIGATION AUDIT REPORT SHALL BE COMPLETED AT THE TIME OF FINAL INSPECTION.

DRIPLINE NOTE

- PLANS ARE DIAGRAMMATIC. INSTALL DRIPLINE AND COMPONENTS PER MANUFACTURERS INSTRUCTIONS AND INSTALLATION DETAILS.
- INSTALL DRIPLINE A MAXIMUM OF 18" APART (12" IN BIORETENTION AREAS) WITH EMITTERS TRIANGULARLY SPACED. INSTALL 2" FROM PERIMETER OF PLANTED AREA. THERE SHOULD BE A MINIMUM OF TWO DRIPLINE LATERALS IN EACH PLANTED AREA. DRIPLINE SHALL BE INSTALLED AT A CONSISTANT DEPTH THROUGHOUT THE CIRCUIT.
- PLACE AIR/VACUUM RELIEF VALVES AT THE HIGHEST POINTS OF EACH ZONE AND JUST BELOW CHECK VALVES ON SLOPES. INSTALL ONE AIR/VACUUM RELIEF VALVE FOR EVERY 750' OF TOTAL DRIPLINE PER ZONE.
- PLACE FLUSH VALVES AT THE HYDRAULIC CENTER OF THE EXHAUST HEADER OR AT LOW POINT ON SLOPES. INSTALL MINIMUM OF ONE FOR EVERY 15 GPM.
- INSTALL IN-LINE CHECK VALVES ON SLOPES GREATER THAN 3% AND WHERE LOW-LINE DRAINAGE COULD CAUSE WET AREAS IN THE LOWEST AREAS OF AN IRRIGATION ZONE. CHECK VALVES SHALL BE PLACED EVERY 4-5 FEET BETWEEN DRIPLINE LATERALS AND BEFORE THE FLUSH VALVE.
- ON ALL SLOPES AND MOUNDS, PLACE THE DRIPLINE LATERALS PARALLEL TO THE SLOPE CONTOUR WHERE POSSIBLE. INCREASE THE LATERAL SPACING BY 25% ON THE LOWER ONE-THIRD OF THE SLOPE TO AVOID EXCESS DRAINAGE.
- PVC SUPPLY AND FLUSH LINE SIZING GUIDE (ALL SUPPLY AND FLUSH LINES SHALL BE THE SAME SIZE FOR THE ENTIRE ZONE):
 - 1-5 GPM - 3/4"
 - 5.1-15 GPM - 1"
- FITTINGS SHALL BE OF THE SAME MANUFACTURER AS DRIPLINE.
- STAPLE DRIPLINE TO GROUND EVERY 3 FEET USE ADDITIONAL STAPLES OVER EACH TEE, ELBOW OR CROSS. USE U-SHAPED STAPLES TO AVOID PINCHING THE DRIPLINE.
- THOROUGHLY FLUSH EACH INSTALLATION SEGMENT TO ENSURE NO DEBRIS CONTAMINATION OCCURS.
- IN TURF OR NOW-MOW GRASS AREAS, A TEMPORARY OVERHEAD SPRAY SYSTEM WILL NEED TO BE PROVIDED UNTIL THE TURF SEED OR SOD IS ESTABLISHED. OVERHEAD WATERING CAN BE DISCONTINUED WHEN EDGES OF THE SOD CANNOT BE PULLED UP. RUN THE DRIPLINE SYSTEM SEVERAL TIMES DAILY IN ADDITION TO THE TEMPORARY OVERHEAD SYSTEM.
- RUN THE DRIPLINE SYSTEM EVERY DAY OR EVERY OTHER DAY TO ESTABLISH PLANT MATERIAL. MAINTAIN A CONSISTENT MOISTURE BALANCE IN THE SOIL. IT IS IMPORTANT TO KEEP THE SOIL MOIST WITHOUT SATURATION.



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	56	79
PETER G. ARNOLD <i>Peter G. Arnold</i> 03-31-22 LICENSED LANDSCAPE ARCHITECT DATE					
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
ABEY ARNOLD ASSOCIATES 1005 A STREET, SUITE 305 SAN RAFAEL, CA 94901					
CITY OF PITTSBURG 65 CIVIC AVENUE PITTSBURG, CA 94565					



TWO-WIRE NOTES:

- USE ONLY APPROVED DOUBLE JACKETED TWO-CONDUCTOR SOLID CORE WIRE. DO NOT USE SINGLE STRAND IRRIGATION WIRE. ALL WIRE INSULATION SHALL BE INTACT AND FREE OF NICKS AND CUTS.
- INSTALL TWO-WIRE CABLE FOLLOWING THE MAINLINE WHERE POSSIBLE. BRANCHES MAY COME OFF THE MAIN LOOP AND THEY DO NOT NEED TO BE LOOPED BACK TO THE MAIN TRUNK LINE.
- INSTALL A SURGE PROTECTOR AND GROUND ROD EVERY 600' PER MANUFACTURER'S INSTRUCTIONS.

CONTROLLER NOTES:

- SCHEDULE A MANDATORY CERTIFICATION PRECONSTRUCTION MEETING WITH JOHN DEERE GREEN TECH AT 949-455-7465. VERIFY ALL CONTROLLER MODEL NUMBERS WITH JOHN DEERE GREEN TECH PRIOR TO ORDERING.
- RAIN SENSORS SHALL BE MOUNTED ON A NEARBY POLE. RAIN SENSOR MUST BE LOCATED WHERE IT WILL RECEIVE UNOBSTRUCTED RAINFALL. (CONTROLLERS 'A', 'B', 'C', AND 'D' HAVE RAIN SENSORS MOUNTED TO SIDE OF ENCLOSURE.)

TWO-WIRE CONTROLLER NOTES:

- REFER TO MANUFACTURER'S DOCUMENTATION FOR COMPLETE INSTALLATION INSTRUCTIONS.
- PROVIDE EARTH GROUND PROTECTION. THE GROUND PATH MUST BE AS DIRECT AS POSSIBLE WITH NO SHARP BENDS AND MUST NOT EXCEED 30 OHM RESISTANCE. USE A 5/8" X 8' COPPER-CLAD STEEL ROD AND INSTALL NOT LESS THAN 8' AND NOT MORE THAN 12' FROM THE CONTROLLER.
- INSTALL RAINMASTER DEC-SG-LINE DECODER SURGE PROTECTORS AND GROUNDING RODS EVERY 500' ALONG TWO WIRE PATH. INSTALL IN 6" VALVE BOX PER MANUFACTURER'S INSTRUCTIONS.
- RUN A SEPARATE TWO-WIRE PATH FROM THE CONTROLLER TO EACH LEG OF THE IRRIGATION SYSTEM. (UP TO FOUR SEPARATE PATHS.)
- THE STATION DECODER MODULES ARE AVAILABLE IN 1-STATION, 2-STATION, AND 4-STATION CONFIGURATIONS. INSTALL DECODERS IN VALVE BOX WITH A REMOTE CONTROL VALVE. MAXIMUM DISTANCE BETWEEN DECODER AND SOLENOID IS 200'. FOR UNUSED OUTPUT WIRES, INSTALL A WIRE NUT ON EACH WIRE AND PLACE IN A DBY. DO NOT TOUCH THE WHITE AND BLACK WIRES TOGETHER.
- USE ONLY THE FOLLOWING APPROVED 14 AWG JACKETED DECODER DIRECT BURIAL CABLE:
 - CONTROLLER TO DECODER - PAIGE IRRIGATION WIRE P7350D
 - DECODER TO SOLENOID - PAIGE IRRIGATION WIRE P7351D
- CABLE SHOULD BE BURIED NO LESS THAN 18" DEEP COMMON TRENCHED WITH THE MAINLINE.
- USE 3M DBY-6 AND DBR-6 WIRE CONNECTORS ONLY.
- LOOP TWO WIRE PATH AT ALL CORNERS, SPLICES (2' LOOP) AND IN PULL BOX IF DISTANCE FROM VALVE TO VALVE EXCEEDS 100'.

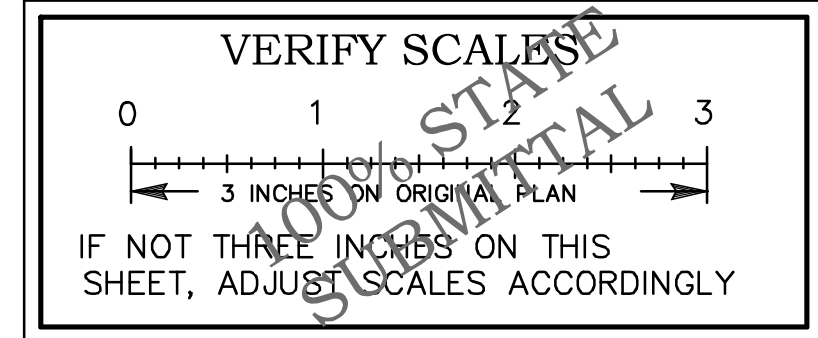
LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	NO. OF BUBBLERS*	PIPE SIZE
BUBBLERS - .25GPM	1-5 5.1-15	1-75 76-225	3/4" 1"
BUBBLERS - .22 GPM	1-5 5.1-15	1-32 33-96	3/4" 1"

* QUANTITY INDICATES NO. OF BUBBLERS, NOT NO. OF TREES. THERE ARE TWO BUBBLERS PER TREE AND ONE BUBBLER PER SHRUB. LATERAL LINE FROM REMOTE CONTROL VALVE TO FIRST BUBBLER SHALL BE 1" MINIMUM.

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 IRRIGATION CONSULTANTS
 TWO CROW CANYON COURT, SUITE 100
 SAN RAMON, CALIFORNIA 94583
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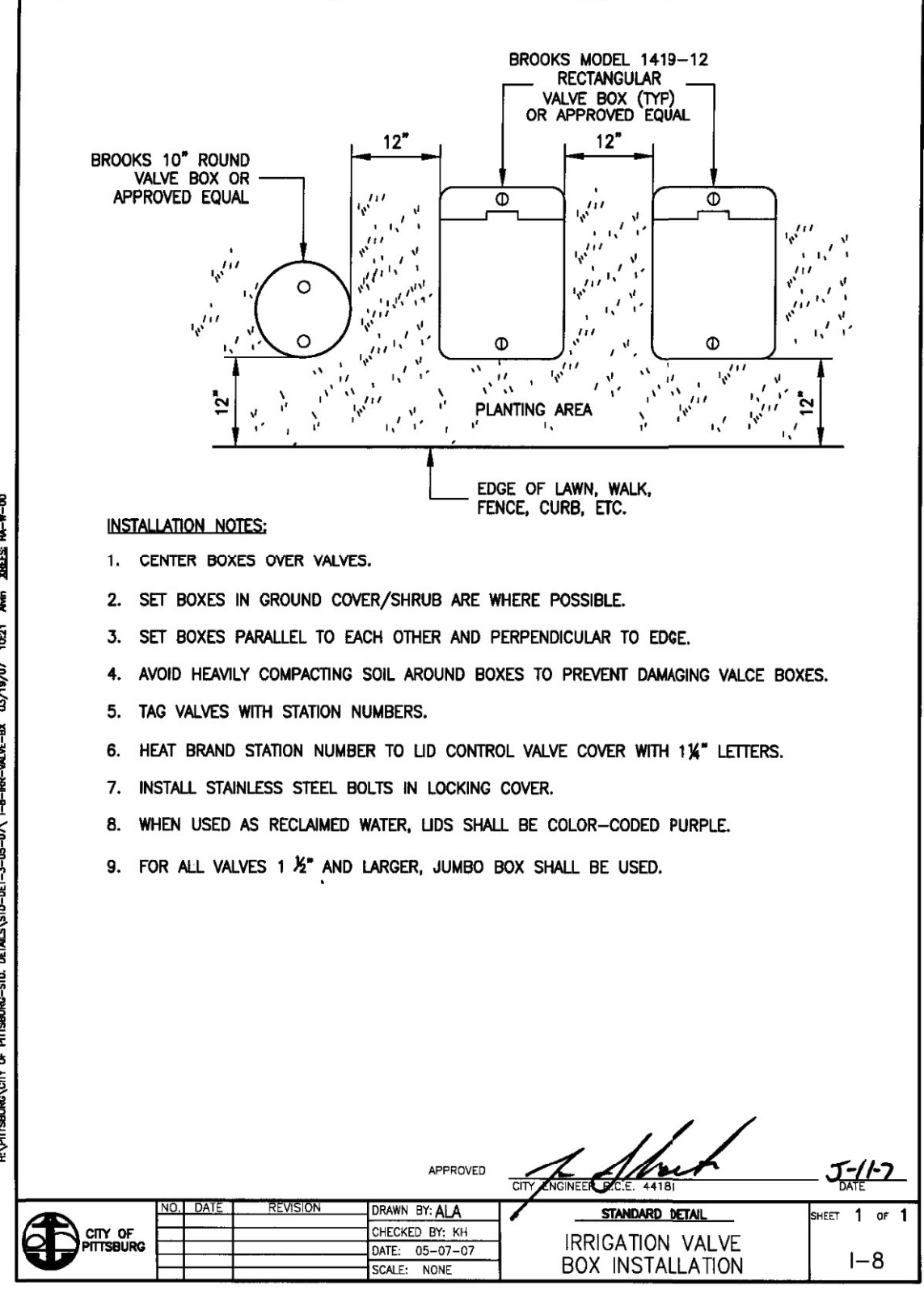
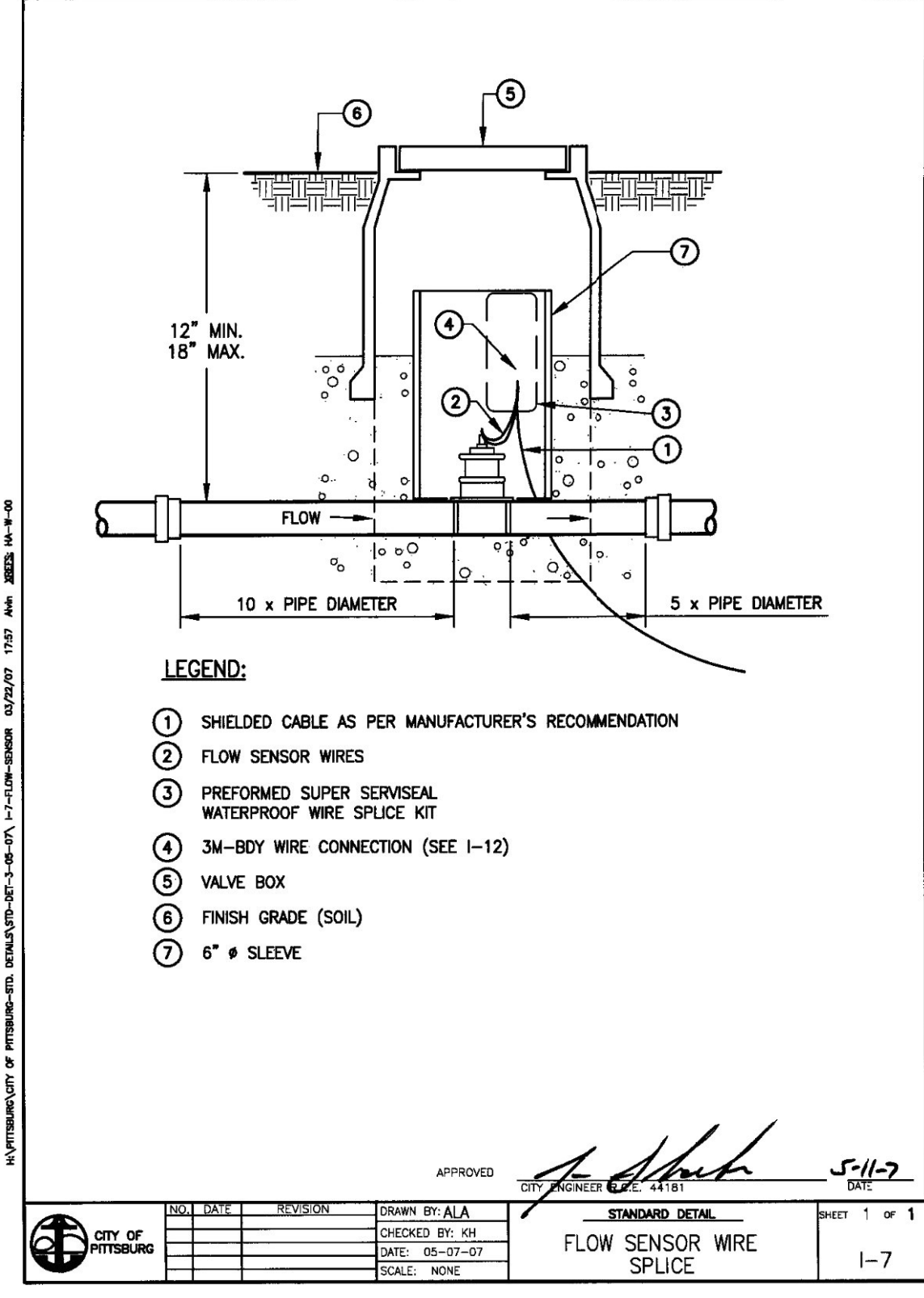
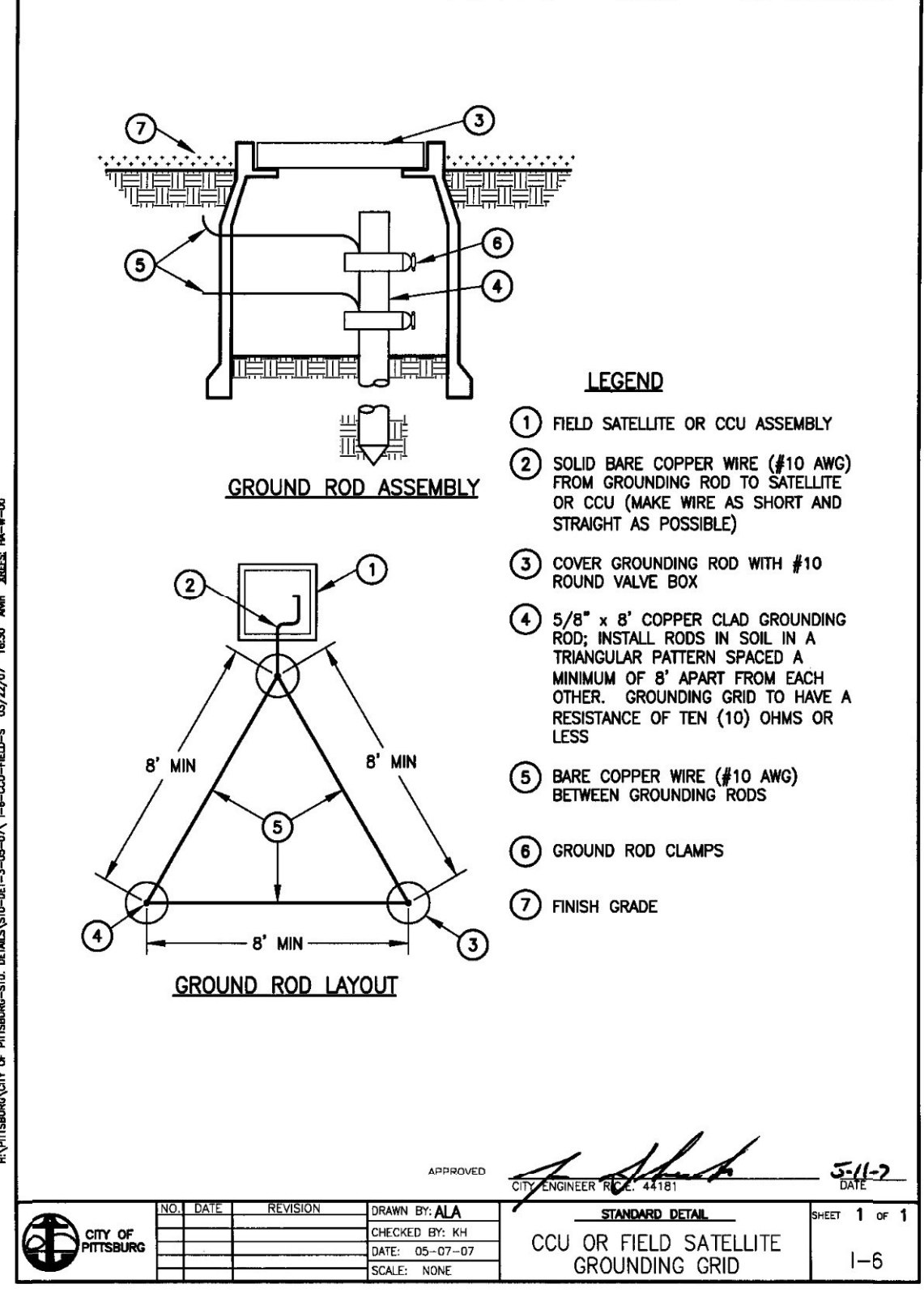
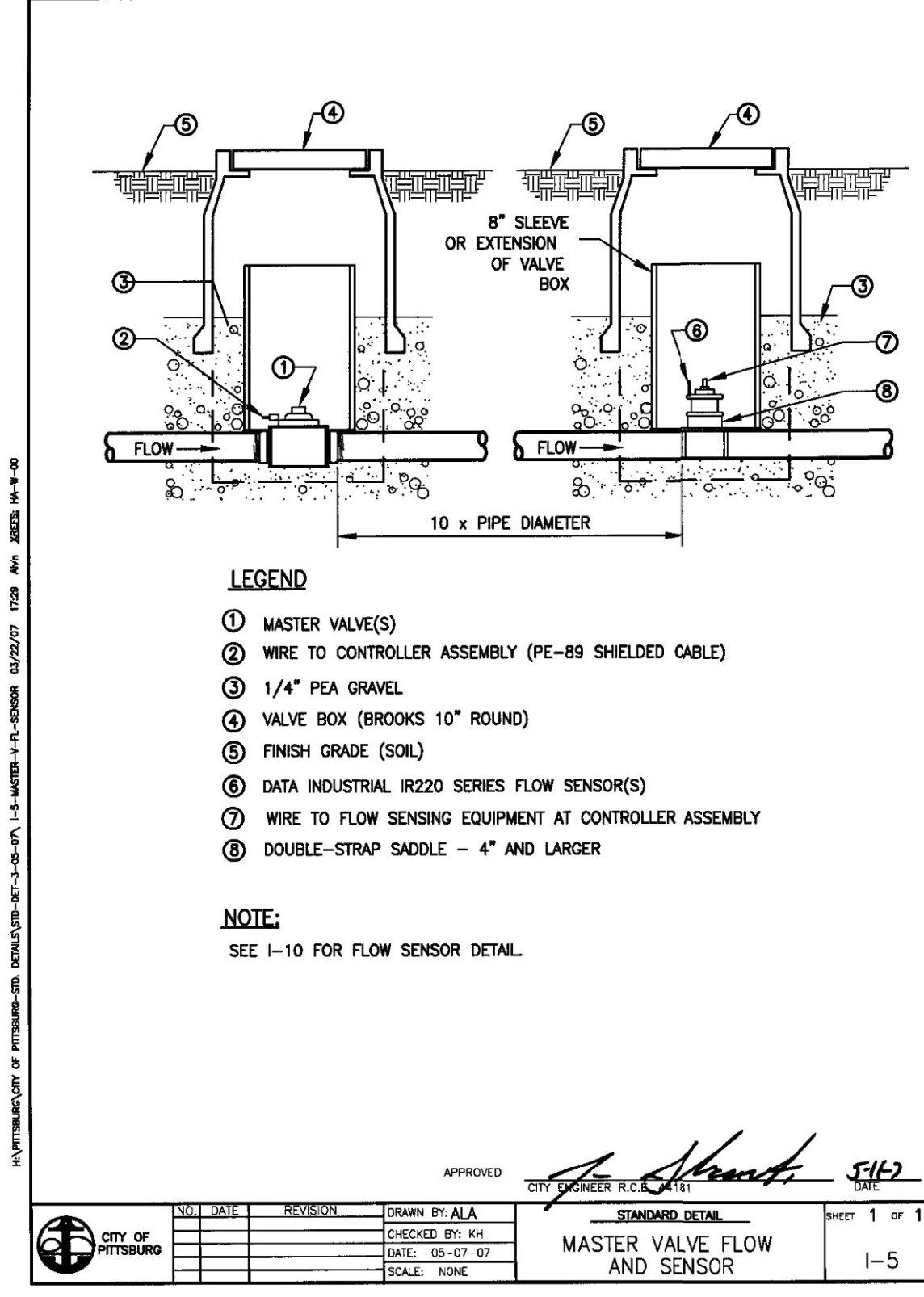
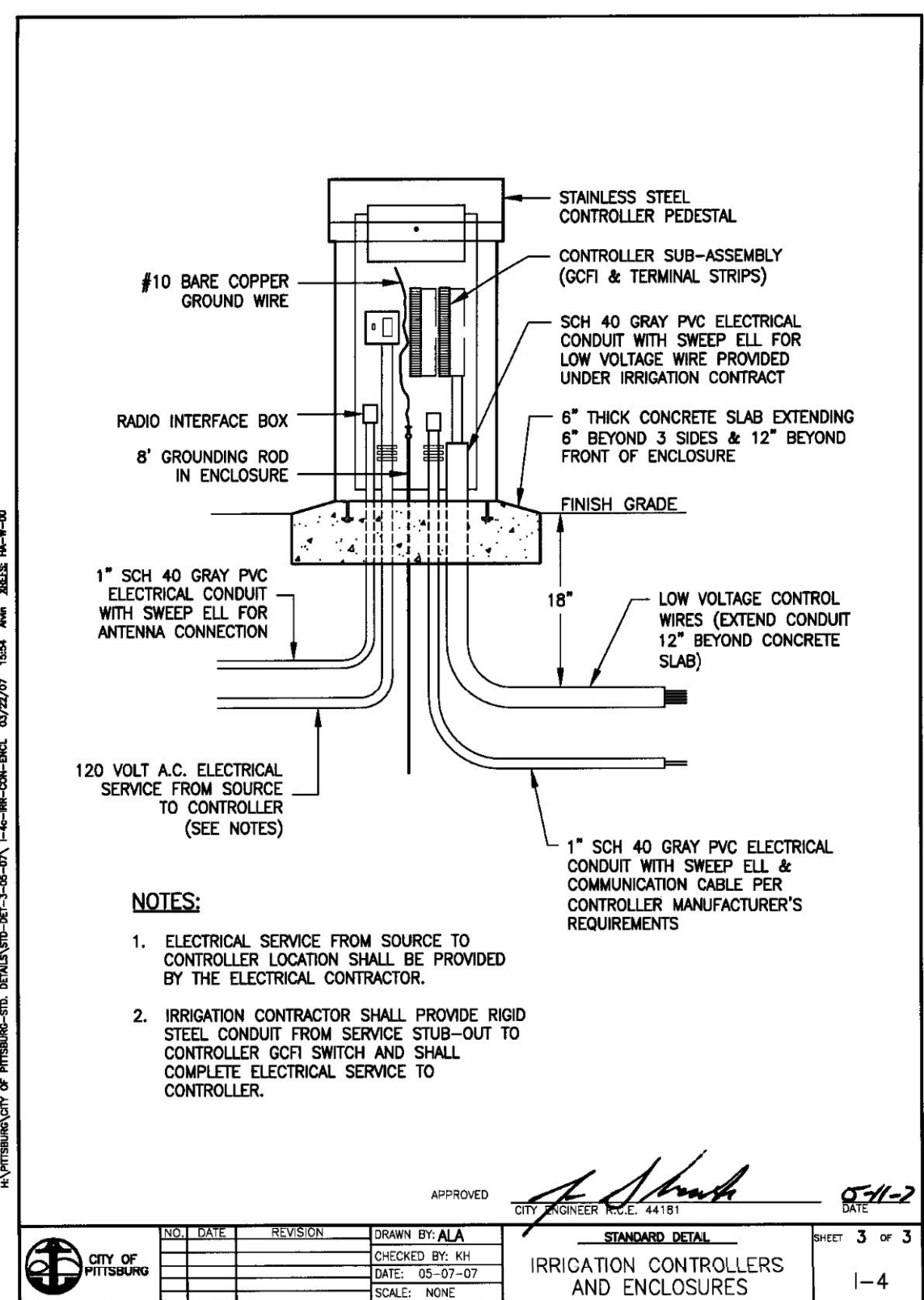
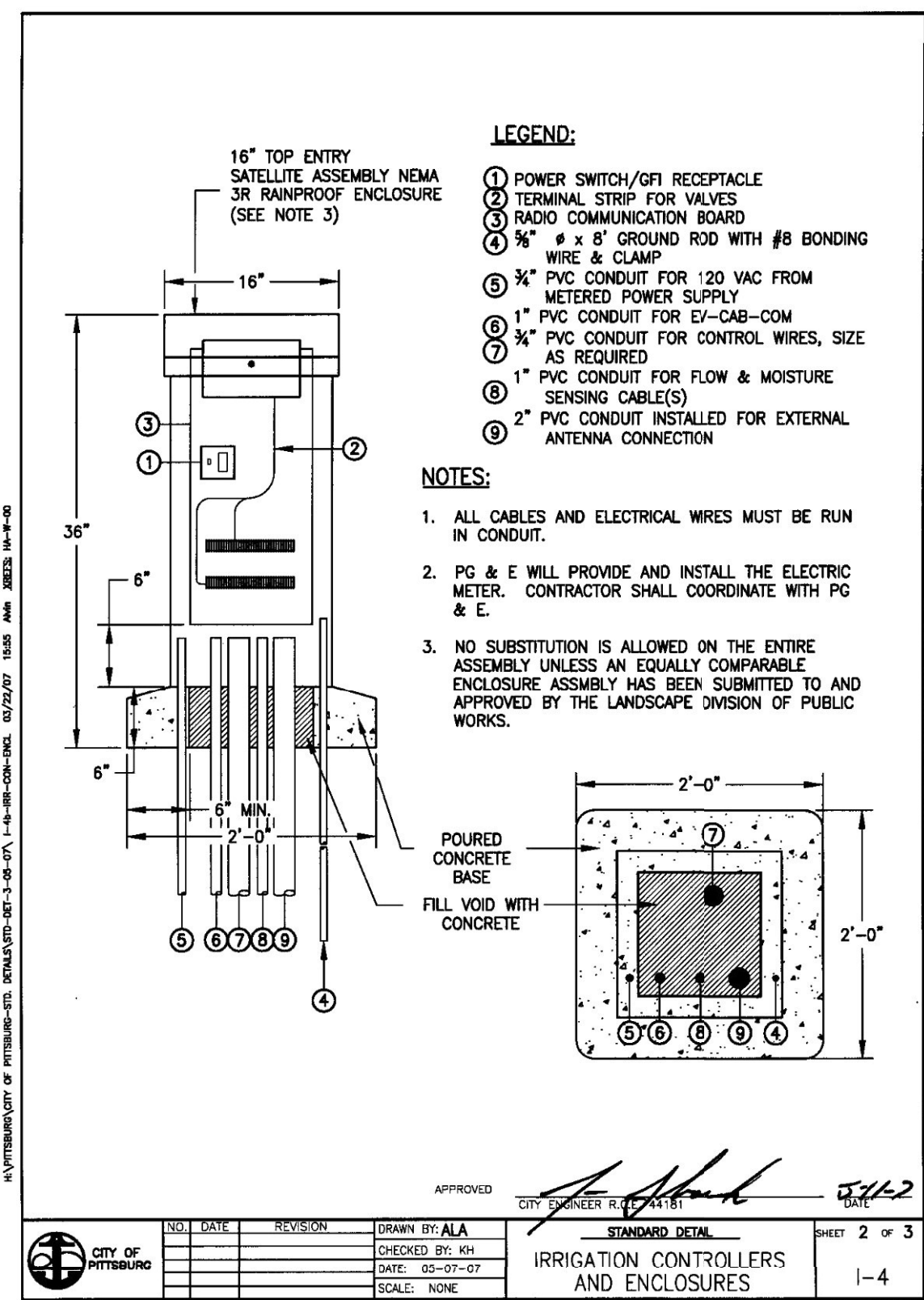
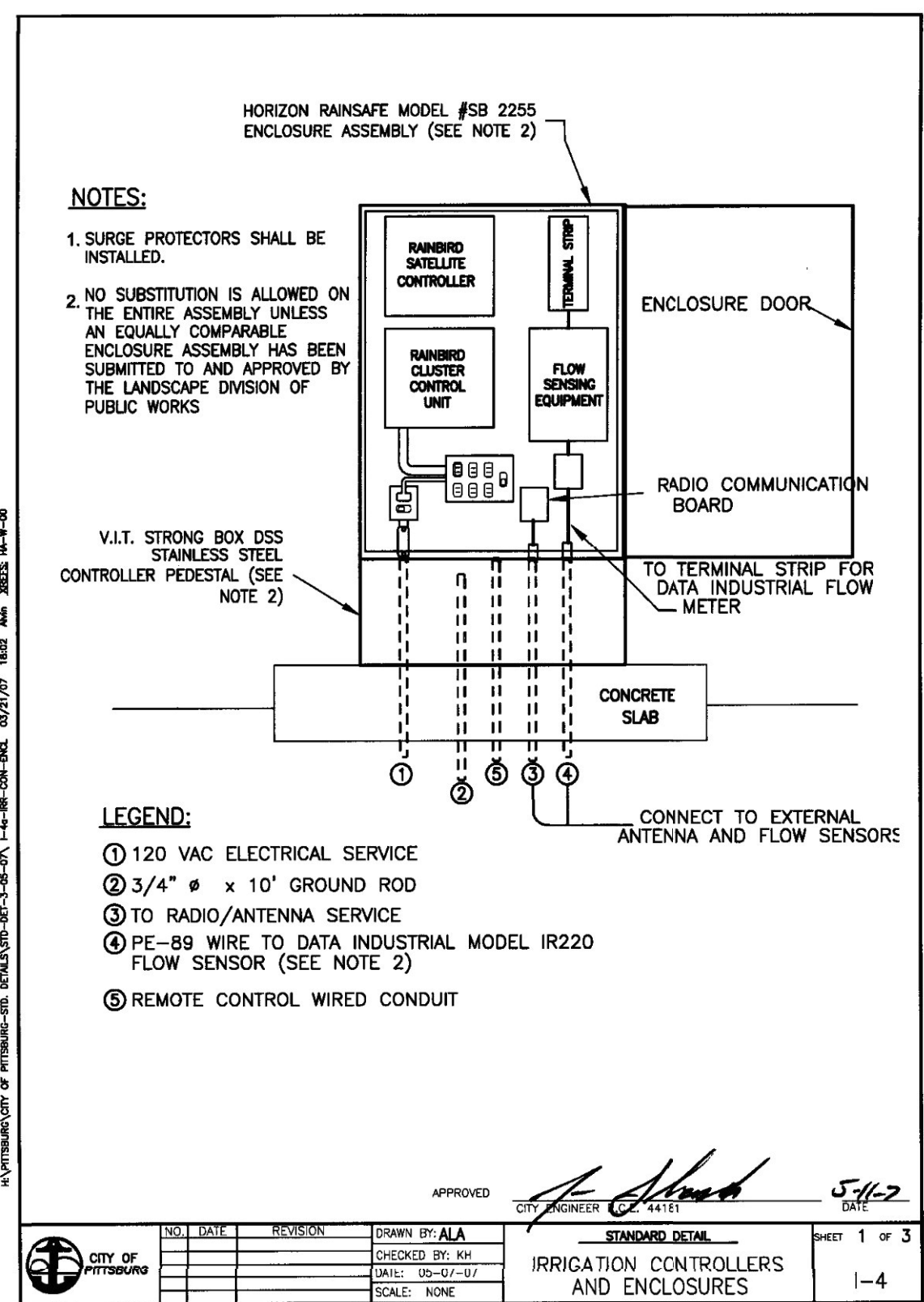
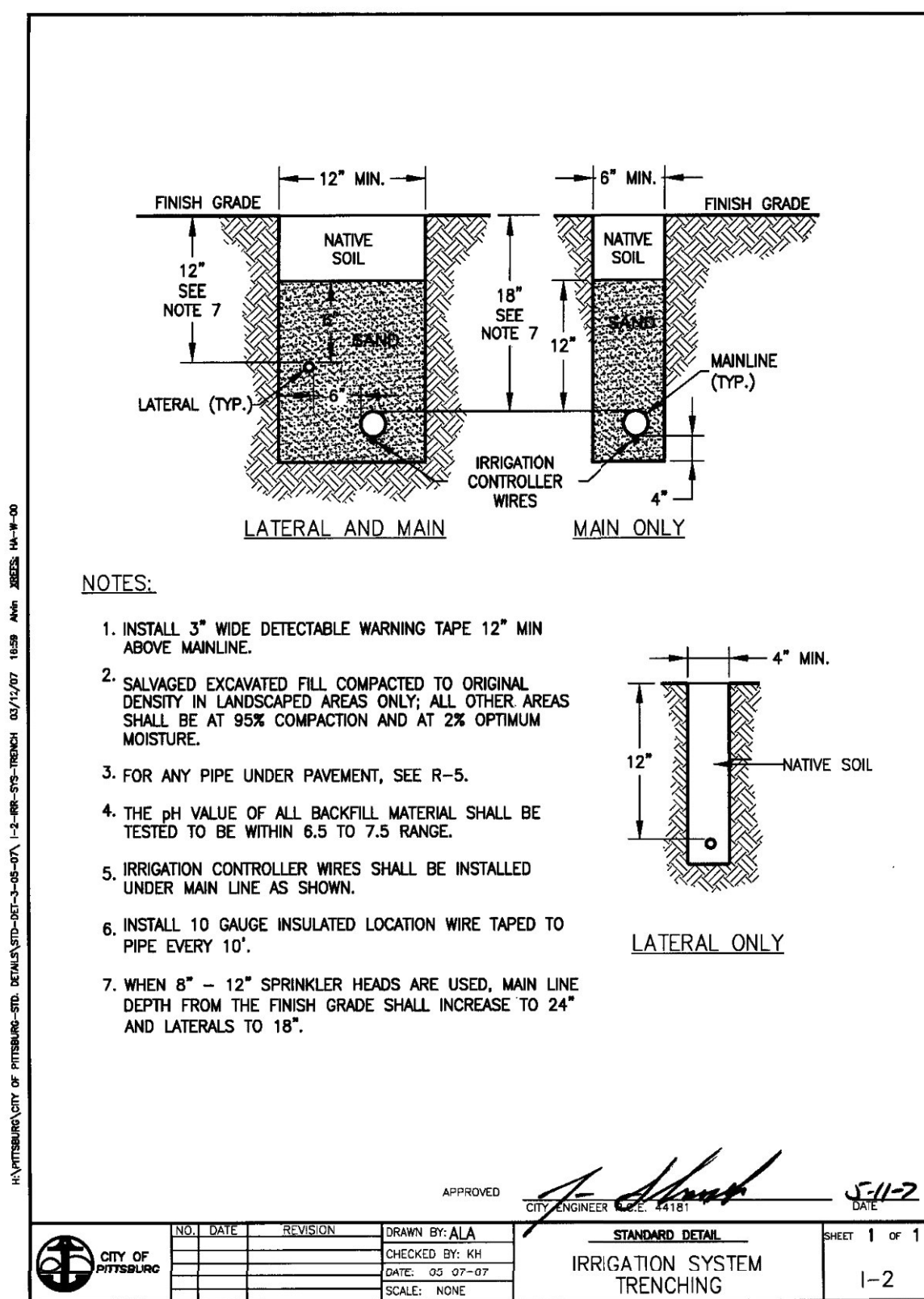
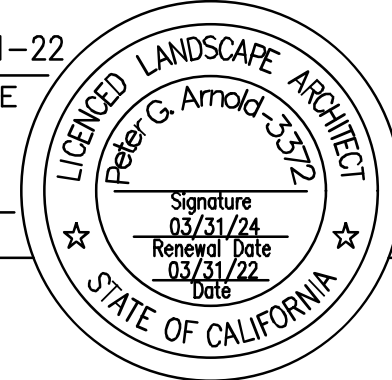
PETER G. ARNOLD
 LICENSED LANDSCAPE ARCHITECT DATE 03-31-22

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

ABEY ARNOLD ASSOCIATES
 1005 A STREET, SUITE 305
 SAN RAFAEL, CA 94901

CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565

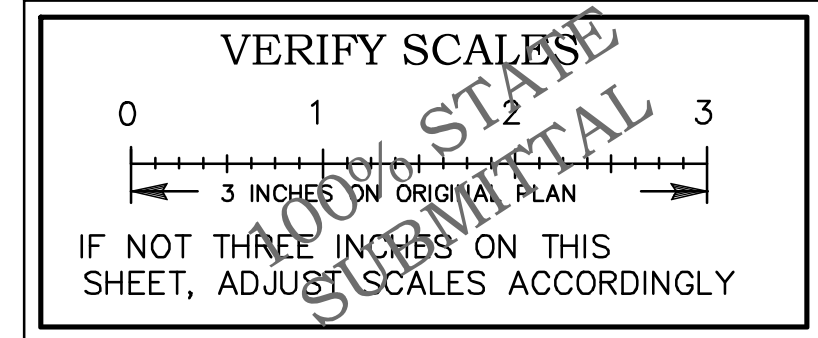


DATE PLOTTED => 30-Mar-2022 TIME PLOTTED => 09:40

REVISOR	DATE	DESIGNED BY	CHECKED BY
	03/31/2022		
	03/31/2022		

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

BROOKWATER
 IRRIGATION CONSULTANTS
 TWO CROW CANYON COURT, SUITE 100
 SAN RAMON, CALIFORNIA 94583
 TEL 925.535.0417 FAX 925.535.0357
 E-MAIL JANET@BROOKWATER.COM



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	58	79

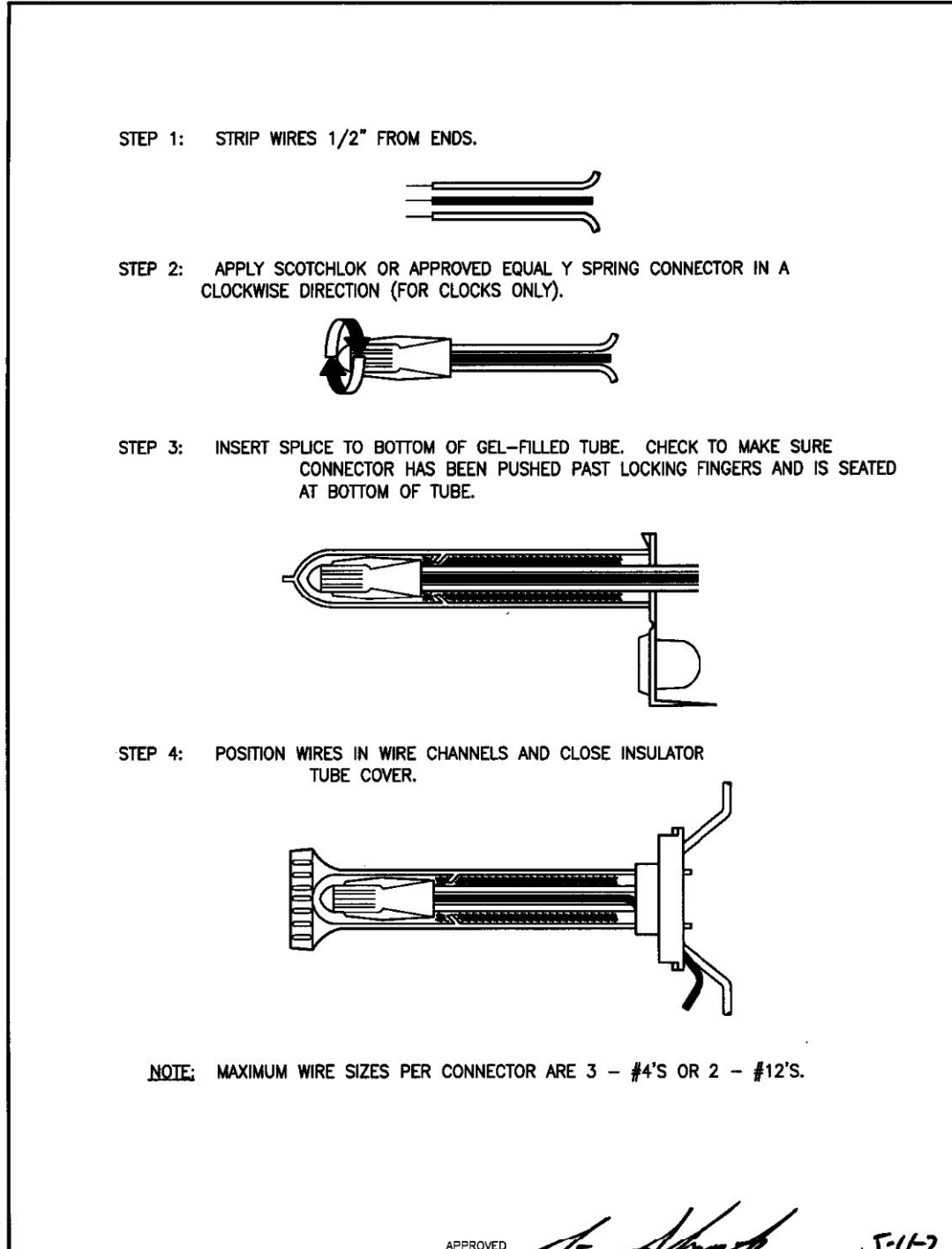
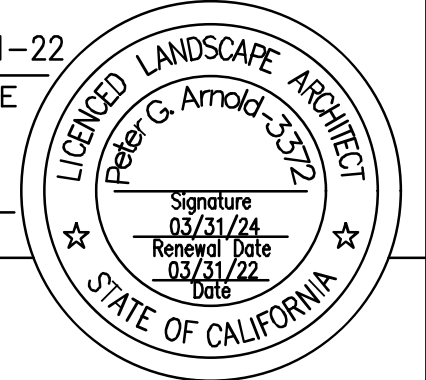
PETER G. ARNOLD
 LICENSED LANDSCAPE ARCHITECT DATE 03-31-22

PLANS APPROVAL DATE

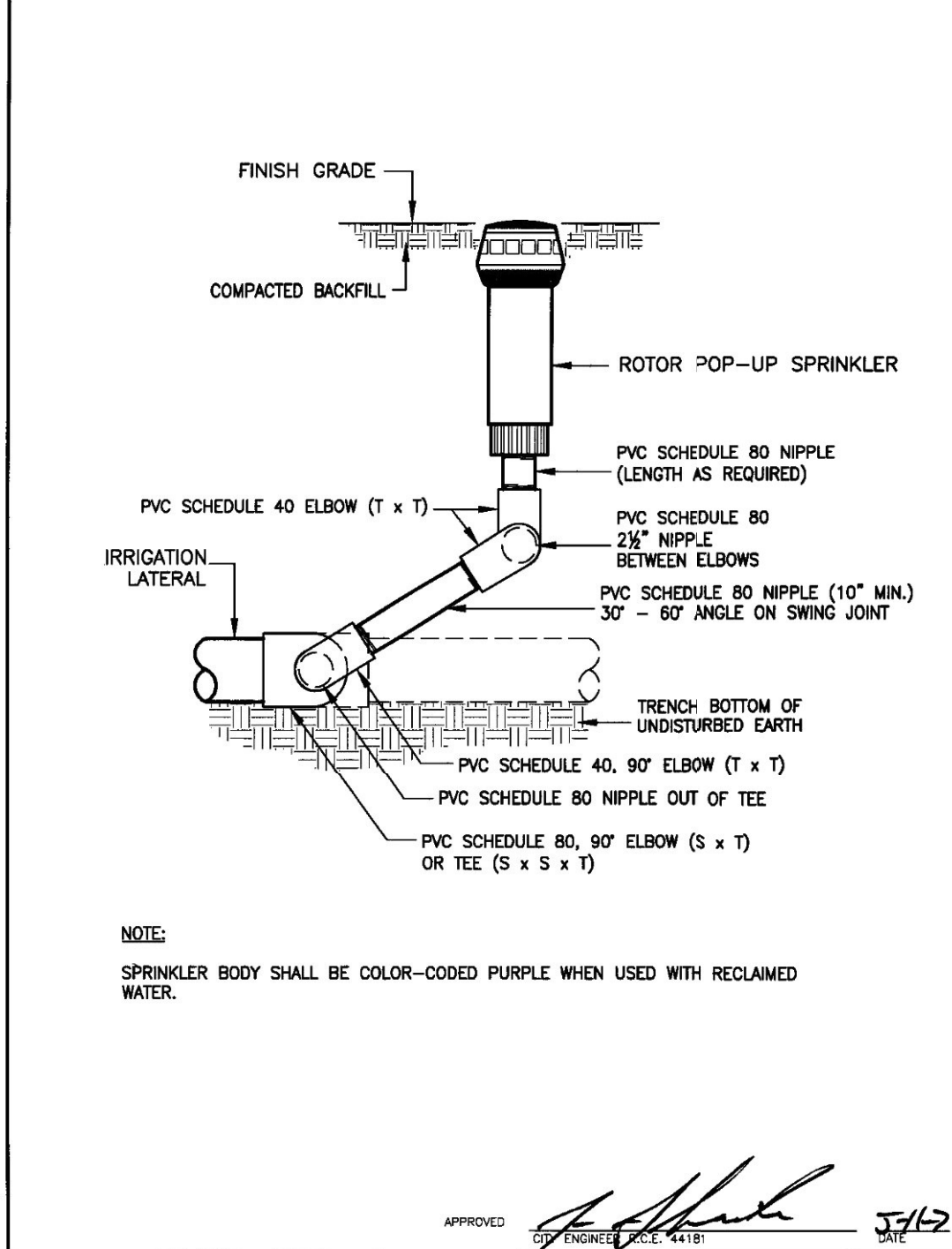
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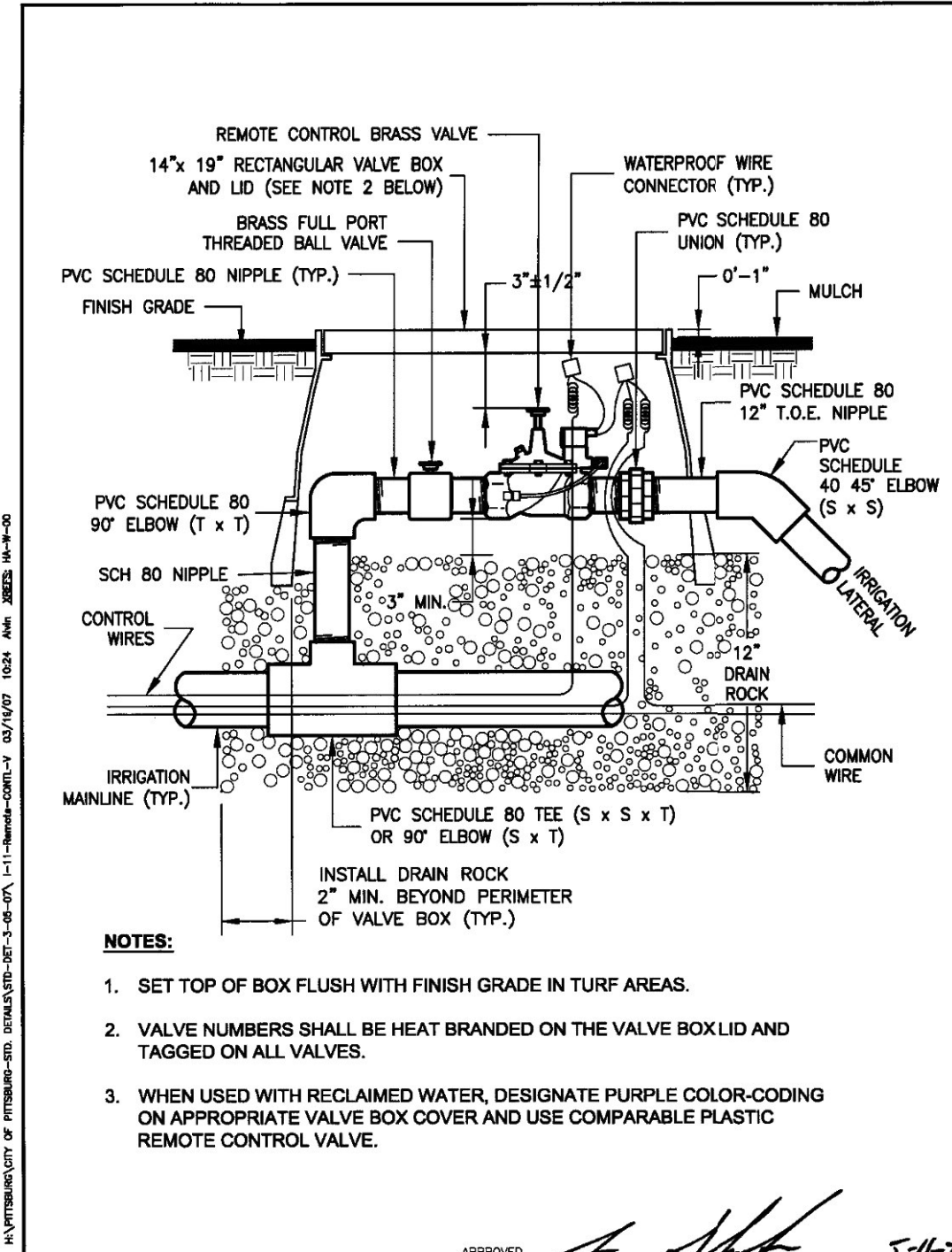
CITY OF PITTSBURG
 65 CIVIC AVENUE
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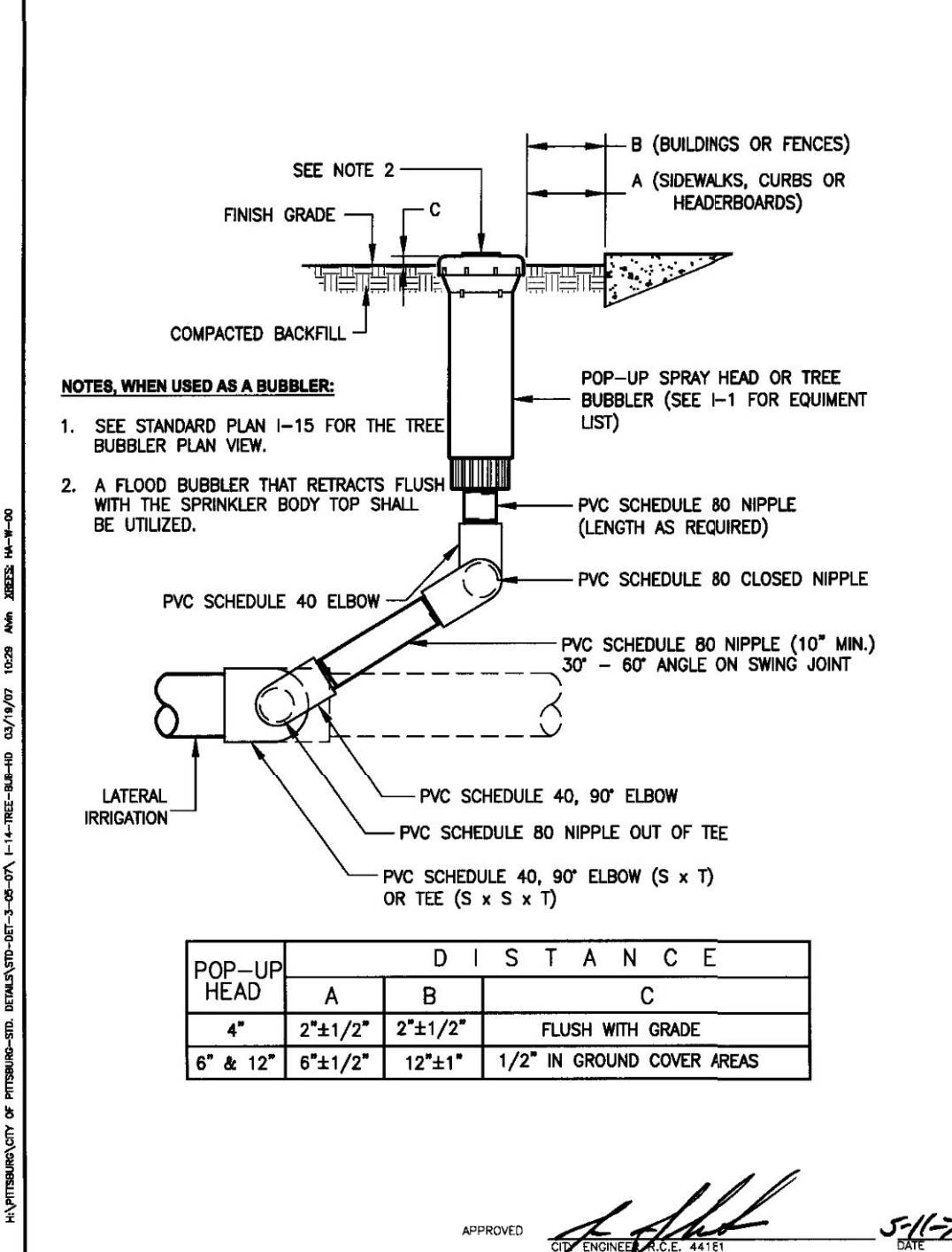
NO.	DATE	REVISION	DRAWN BY: ALA	CHECKED BY: JH	DATE: 05-07-07	SCALE: NONE
STANDARD DETAIL: 3M-DBY WIRE CONNECTION						
SHEET 1 OF 1: 1-9						



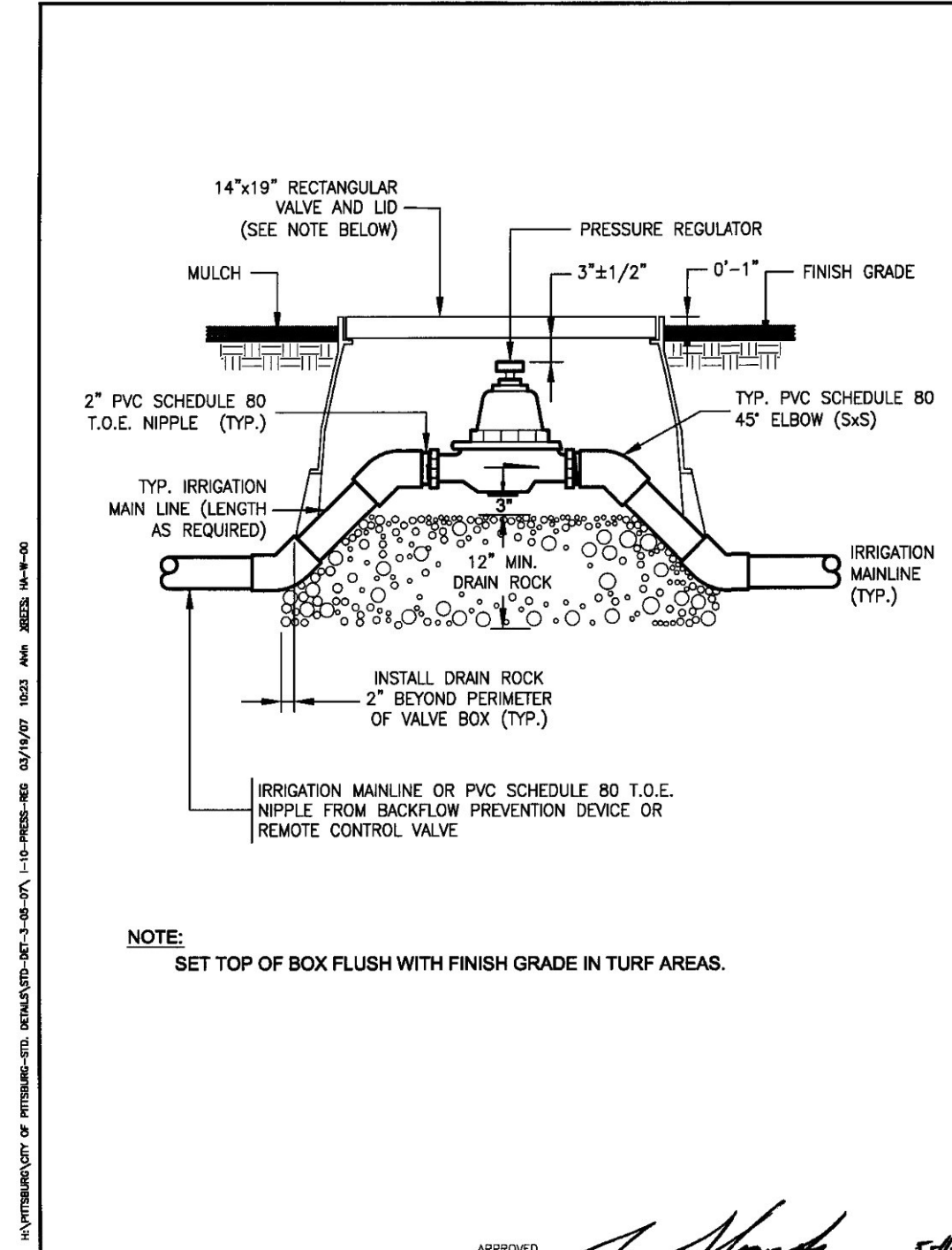
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STANDARD DETAIL: ROTARY POP-UP HEAD						
SHEET 1 OF 1: 1-13						



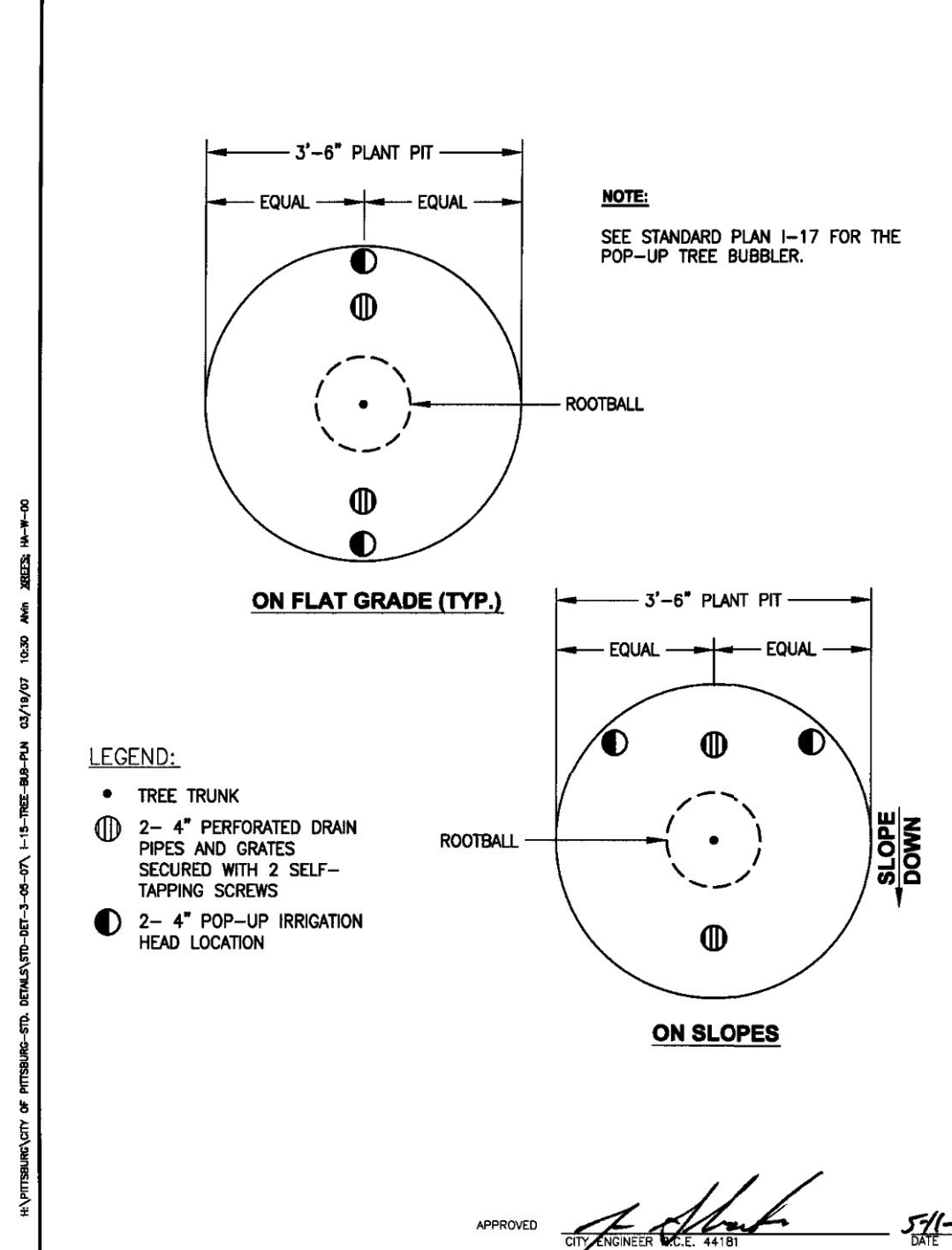
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STANDARD DETAIL: REMOTE CONTROL VALVE						
SHEET 1 OF 1: 1-11						



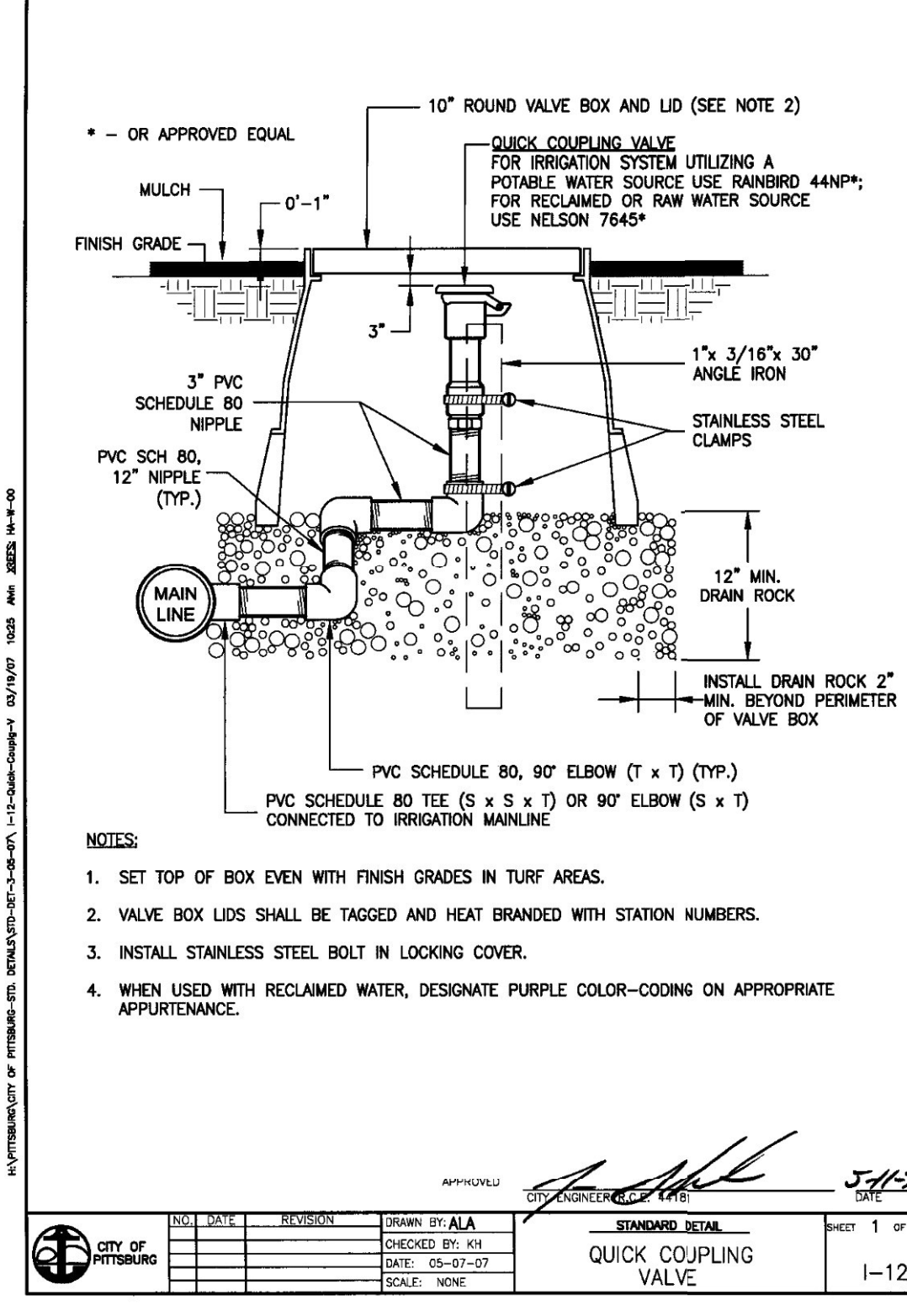
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STANDARD DETAIL: TREE BUBBLER AND SPRAY POP-UP HEAD						
SHEET 1 OF 1: 1-14						



NO.	DATE	REVISION	DRAWN BY: ALA	CHECKED BY: JH	DATE: 05-07-07	SCALE: NONE
STANDARD DETAIL: PRESSURE REGULATOR						
SHEET 1 OF 1: 1-10						



NO.	DATE	REVISION	DRAWN BY: ALA	CHECKED BY: JH	DATE: 05-07-07	SCALE: NONE
STANDARD DETAIL: TREE BUBBLER PLAN VIEW						
SHEET 1 OF 1: 1-15						

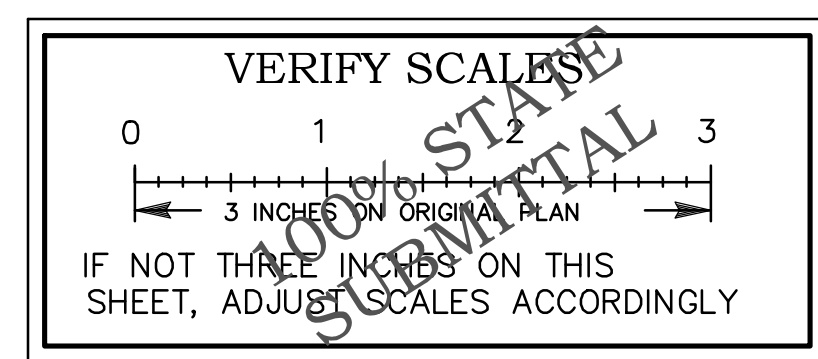


NO.	DATE	REVISION	DRAWN BY: ALA	CHECKED BY: JH	DATE: 05-07-07	SCALE: NONE
STANDARD DETAIL: QUICK COUPLING VALVE						
SHEET 1 OF 1: 1-12						

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 FUNCTIONAL SUPERVISOR
 DESIGNED BY
 CHECKED BY
 REVISIONS: 03/31/2022, 03/31/2022

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 TEL 925.855.0417 FAX 925.855.0357
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	59	79

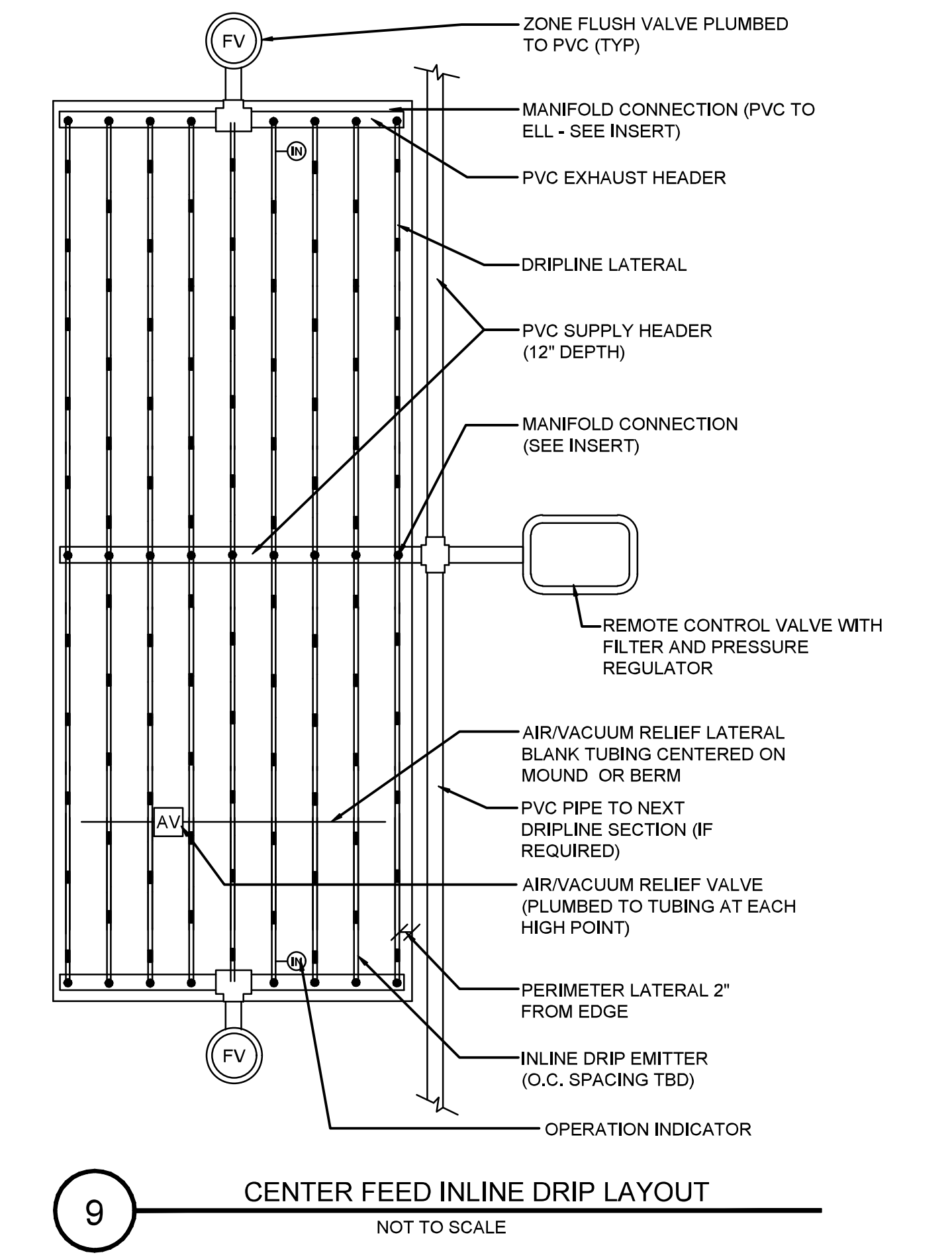
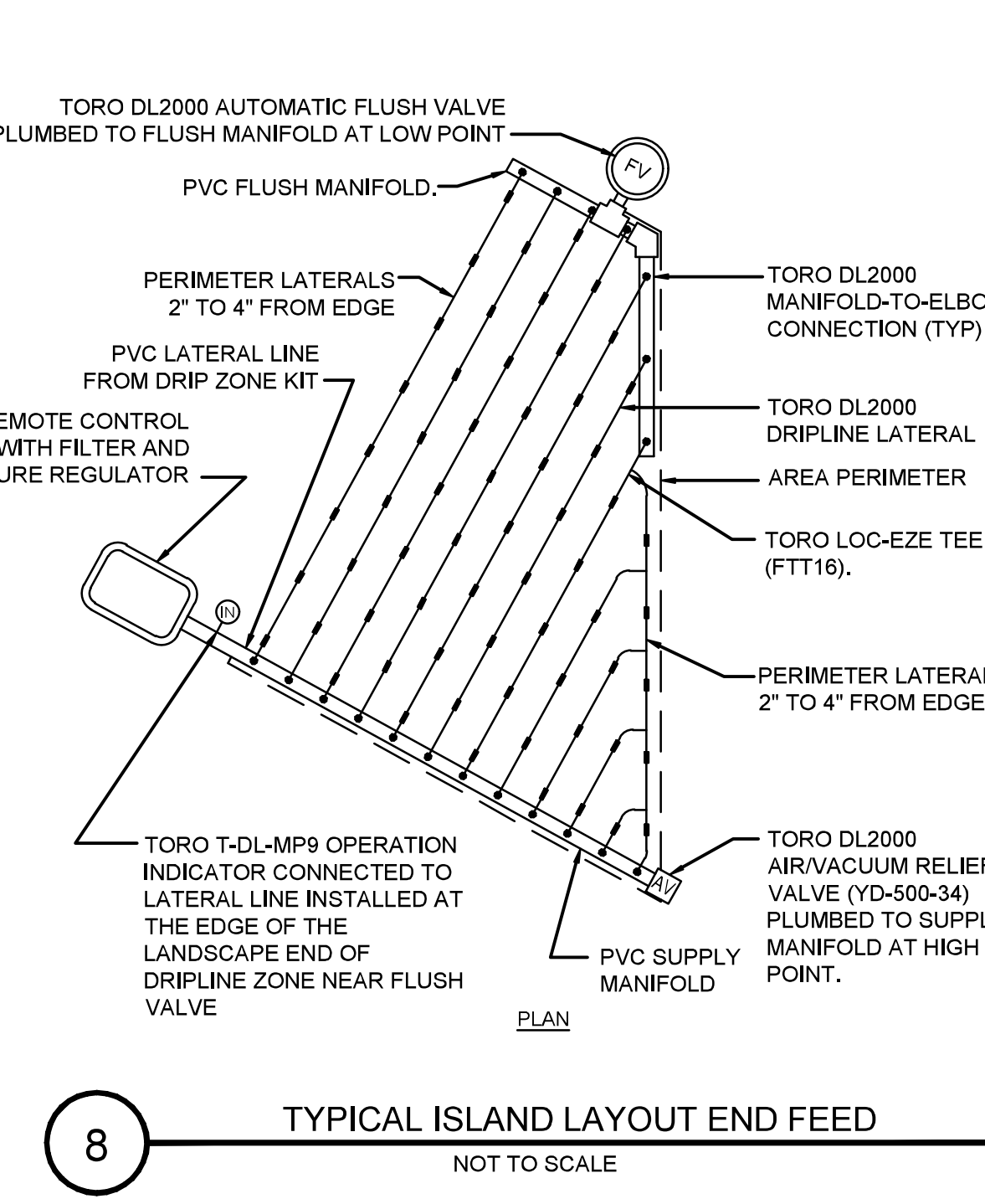
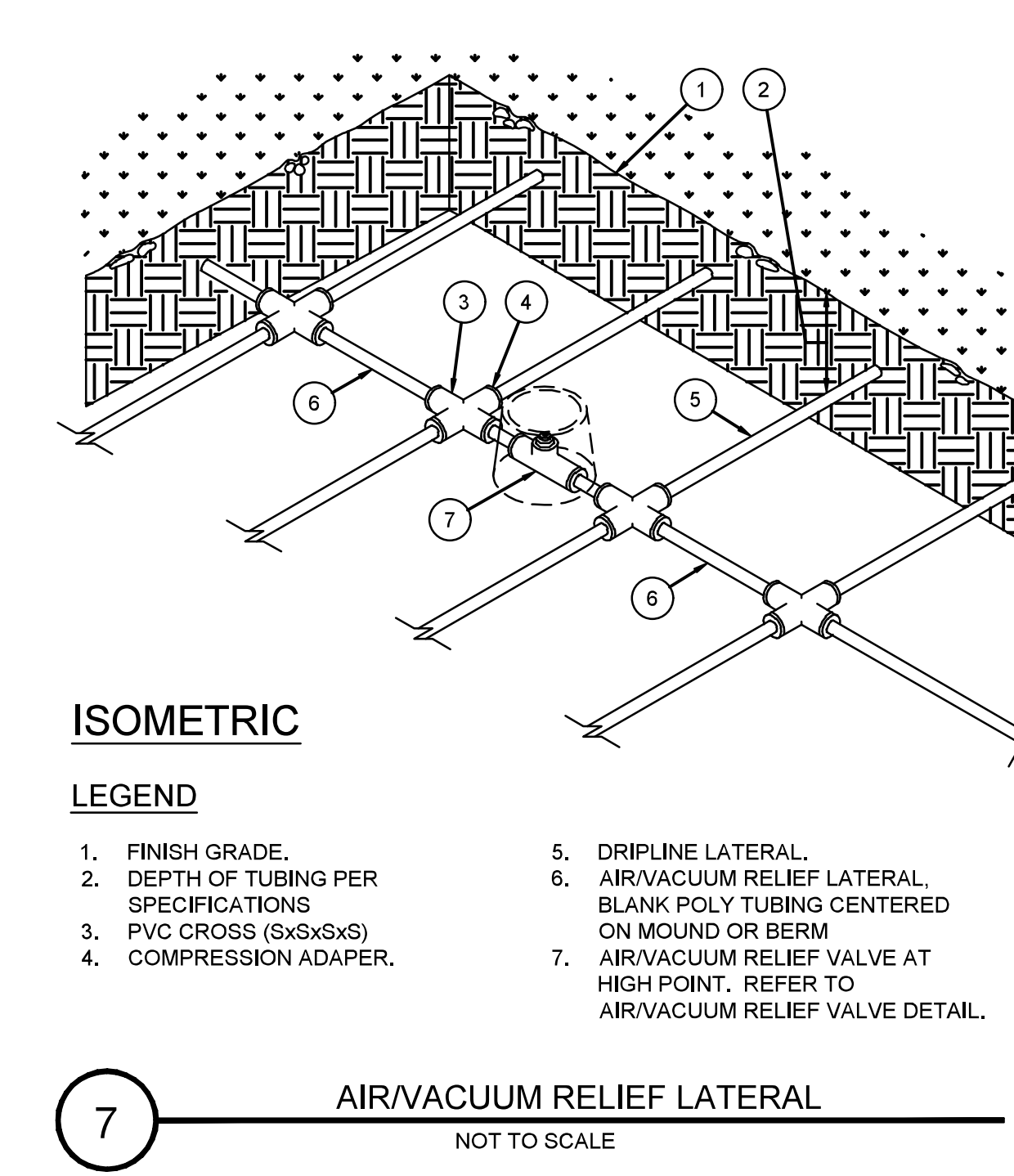
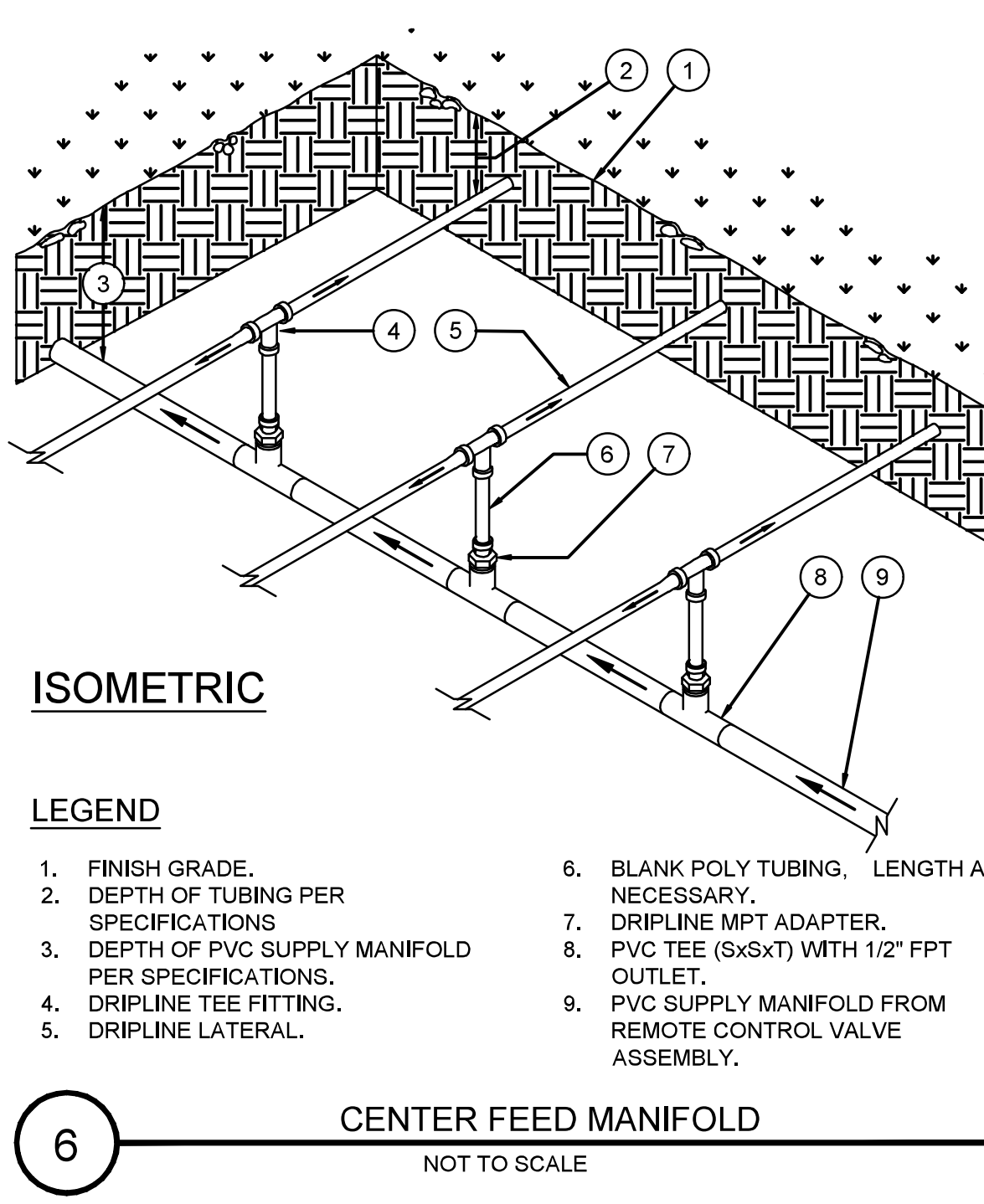
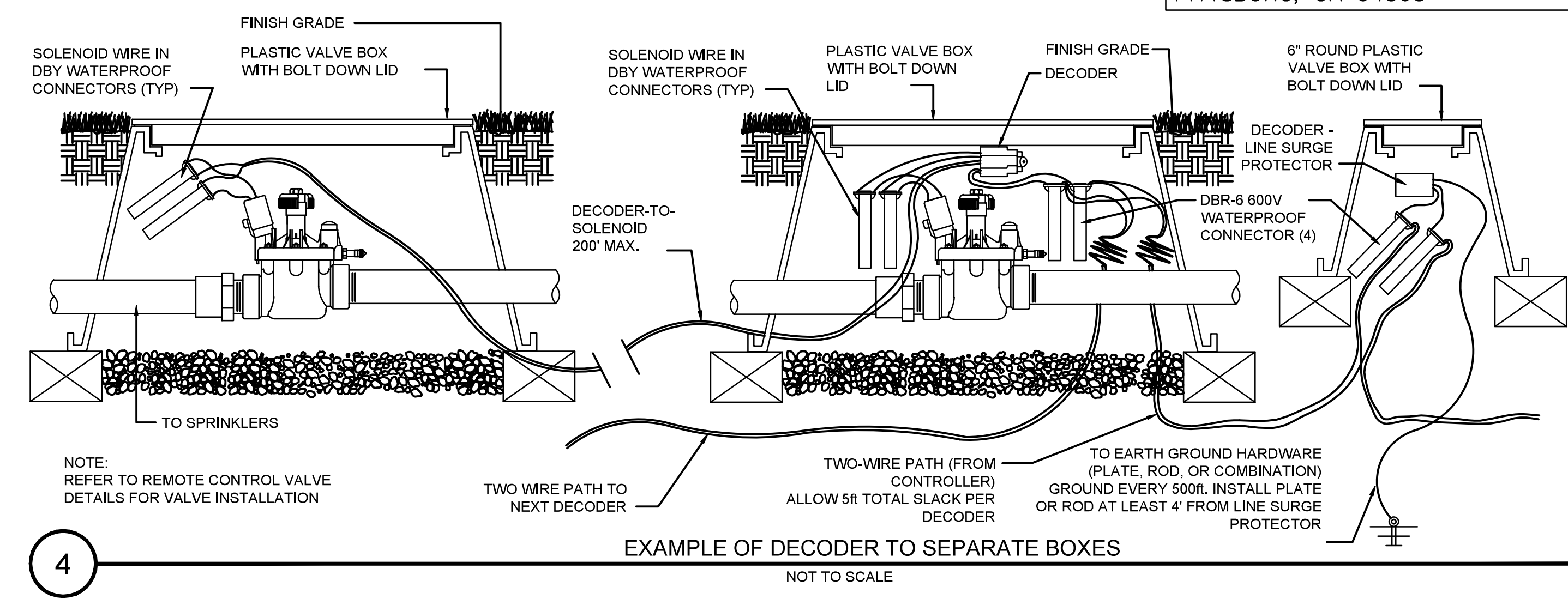
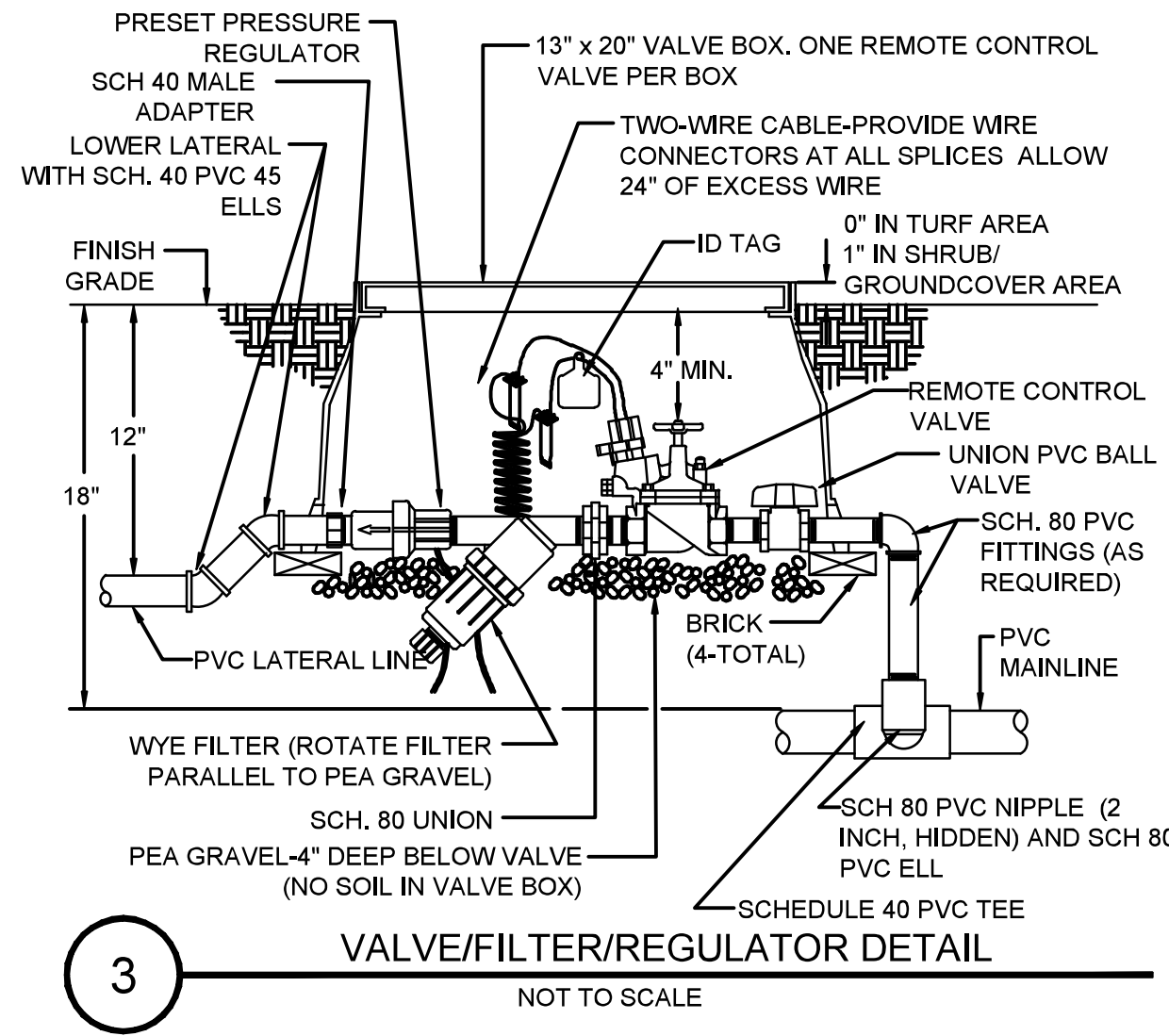
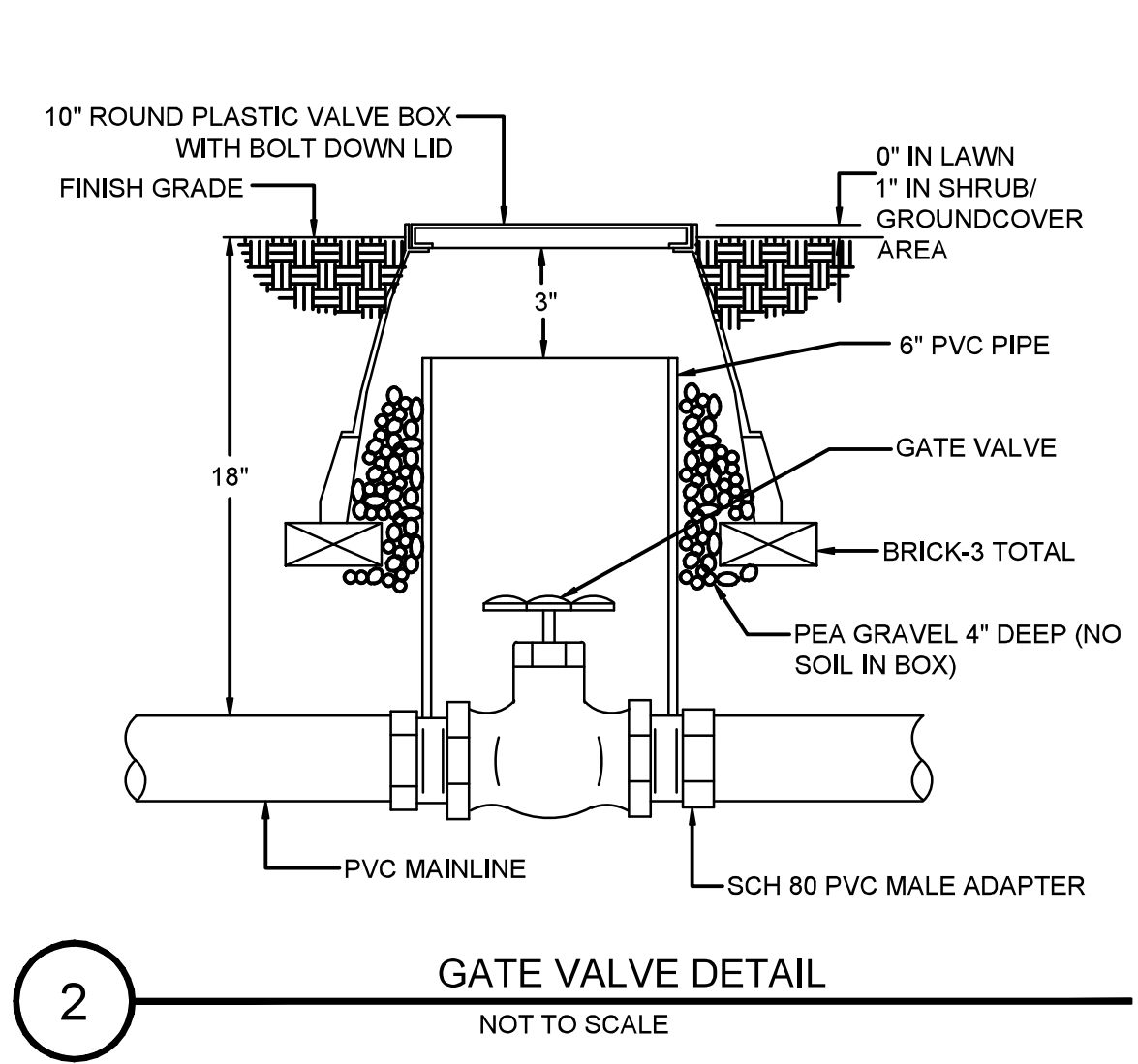
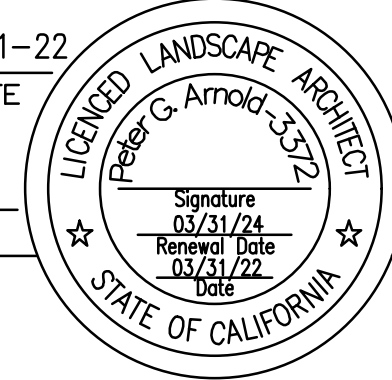
PETER G. ARNOLD
 LICENSED LANDSCAPE ARCHITECT DATE 03-31-22

PLANS APPROVAL DATE

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ABEY ARNOLD ASSOCIATES
 1005 A STREET, SUITE 305
 SAN RAFAEL, CA 94901

CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR
 DESIGNED BY
 CHECKED BY
 REVISIONS
 DATE
 03/31/2022
 03/31/2022
 REVISED BY
 DATE REVISED

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

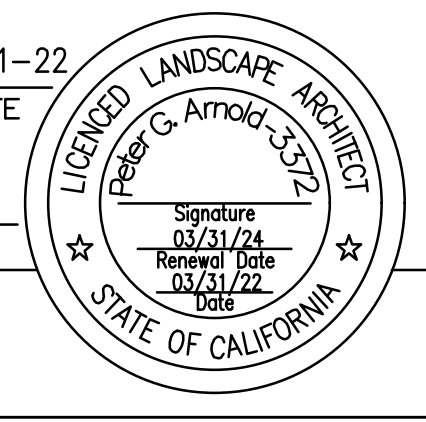
BROOKWATER
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 SAN RAMON, CALIFORNIA 94583
 TEL: 925.550.0417 FAX: 925.550.0357
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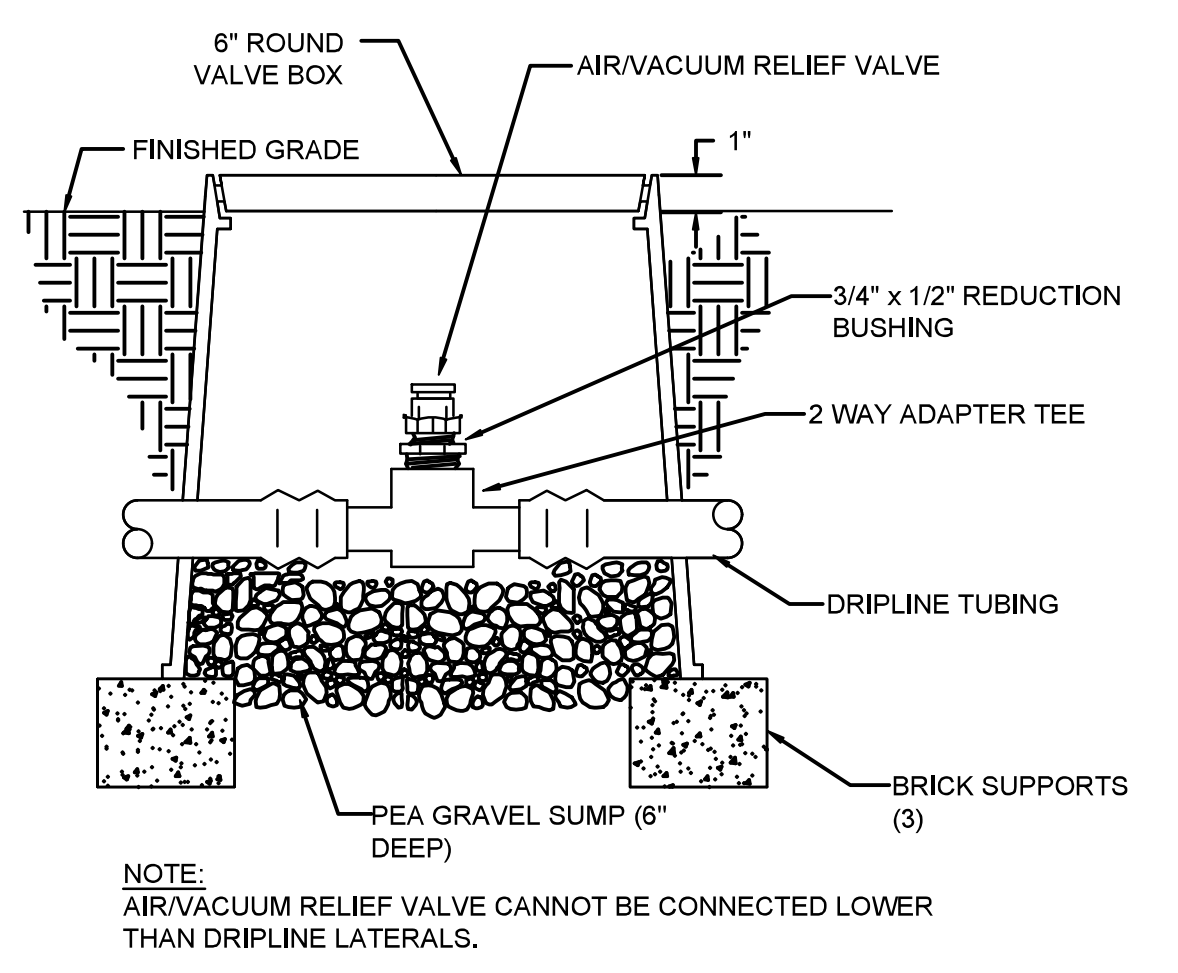
VERIFY SCALES
 0 1 2 3
 3 INCHES ON ORIGINAL PLAN
 IF NOT THREE INCHES ON THIS SHEET, ADJUST SCALES ACCORDINGLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	60	79

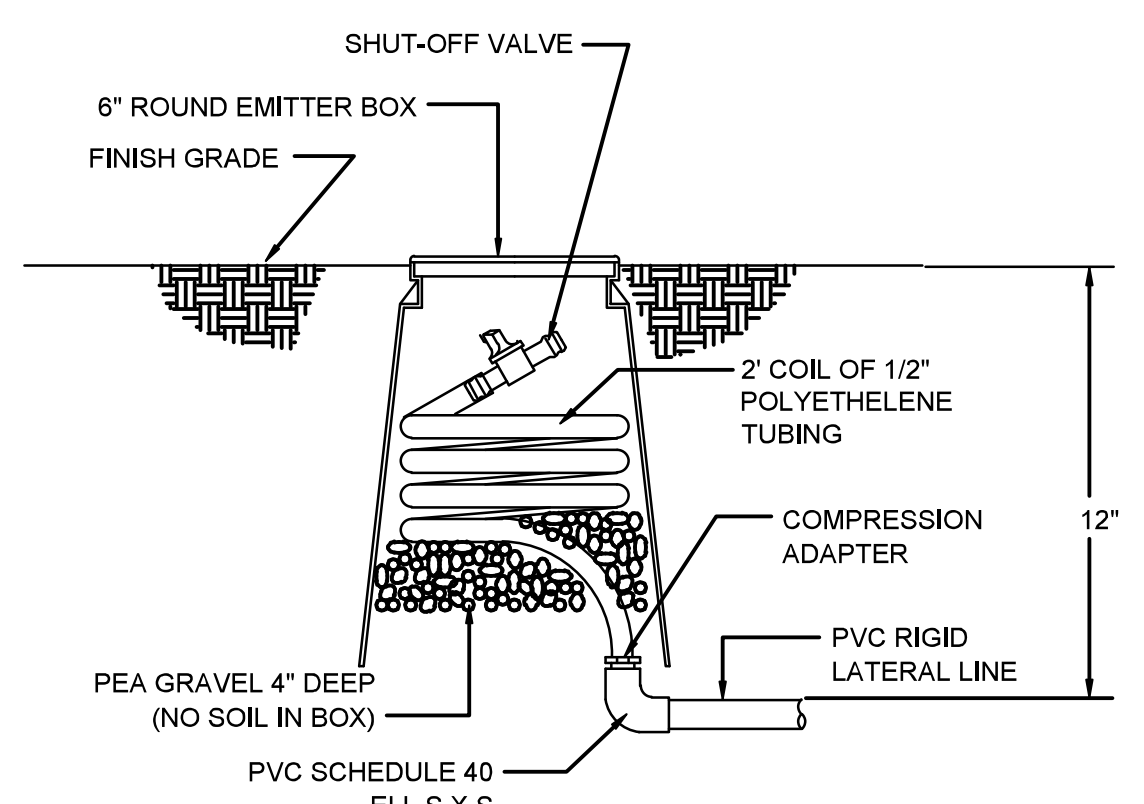
PETER G. ARNOLD *Peter G. Arnold* 03-31-22
 LICENSED LANDSCAPE ARCHITECT DATE
 PLANS APPROVAL DATE
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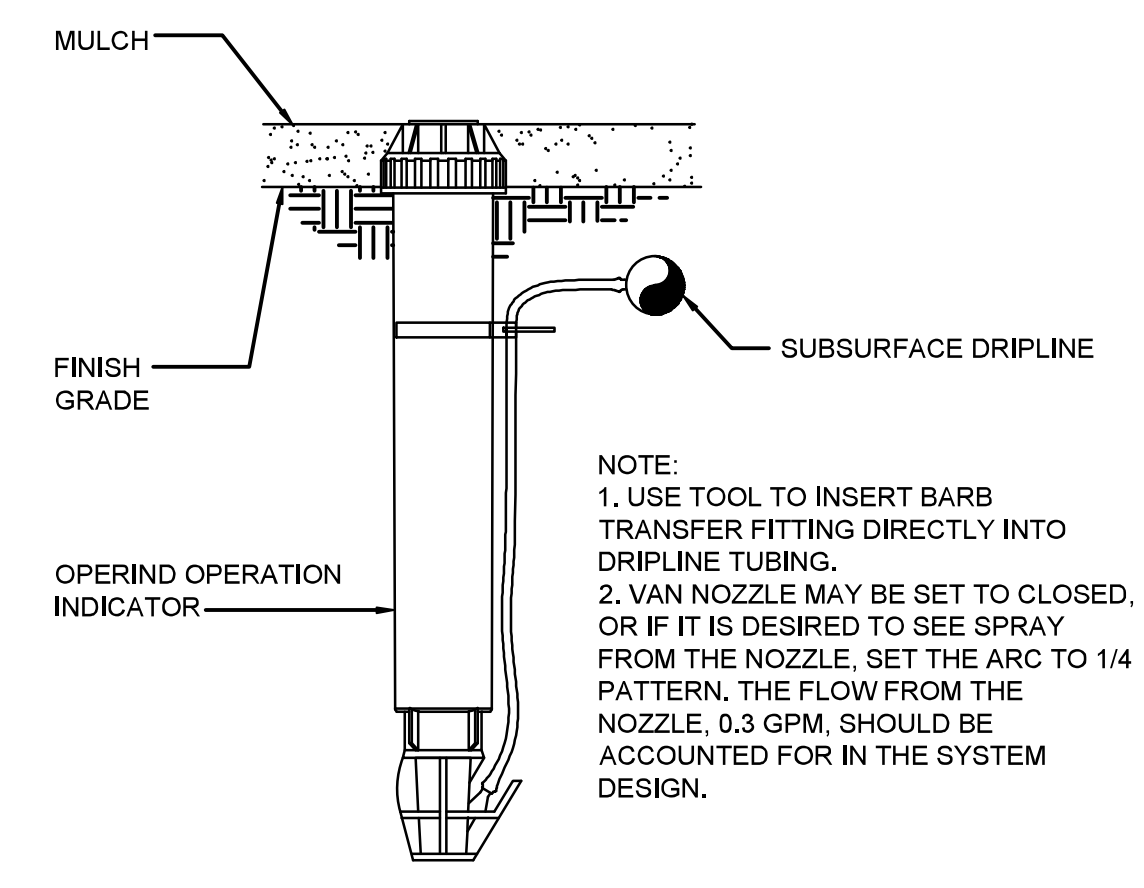
ABEY ARNOLD ASSOCIATES
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 SAN RAFAEL, CA 94901
 CITY OF PITTSBURG
 65 CIVIC AVENUE
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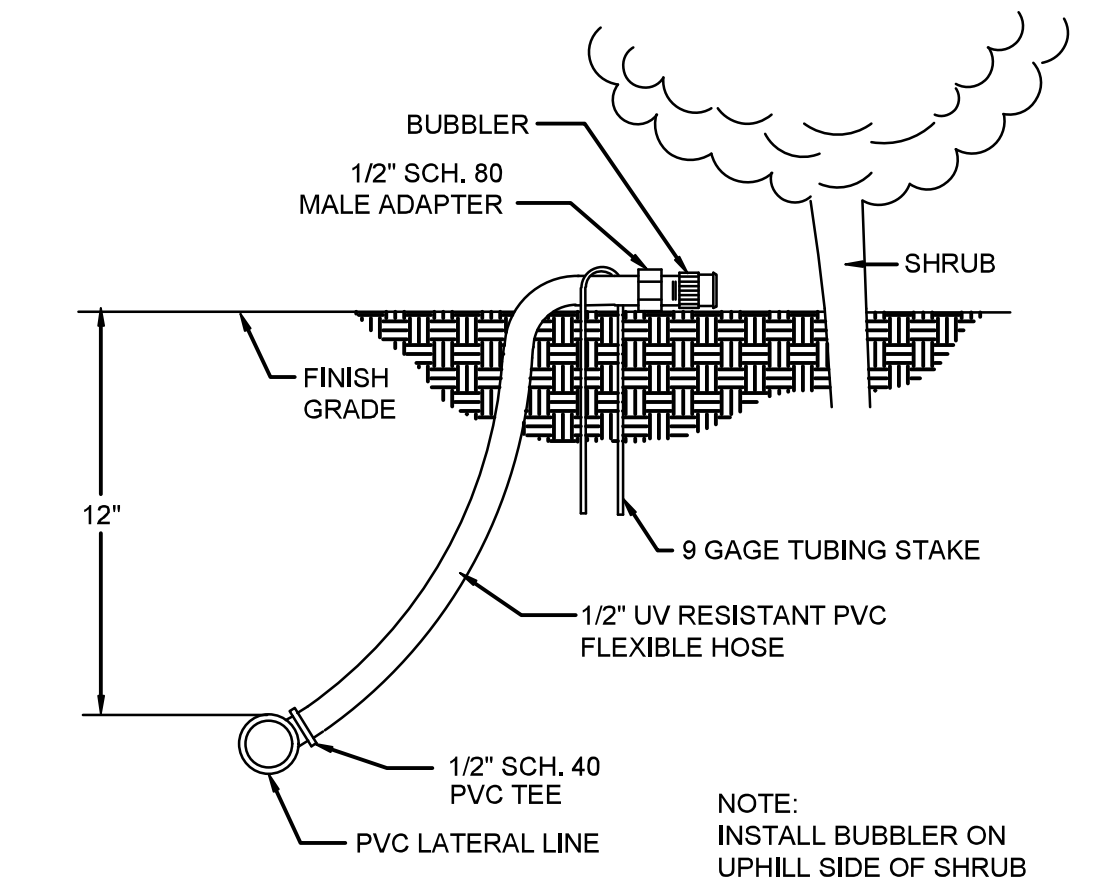
10 AIR/VACUUM RELIEF VALVE - PLUMBED TO TUBING
 NOT TO SCALE



8 FLUSH VALVE INSTALLATION DETAIL
 NOT TO SCALE



12 RAIN BIRD OPERIND OPERATION INDICATOR
 NOT TO SCALE



13 SHRUB BUBBLER ON FLEX HOSE DETAIL
 NOT TO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR
 DESIGNED BY
 CHECKED BY
 REVISIONS
 DATE 03/31/2022
 DATE 03/31/2022
 REVISOR
 DATE

BID ITEM NOTES:

- SEE SHEET P-3 PLANT LIST FOR 'BASE BID' AND 'ADDITIVE BID' ITEMS.
- BASE BID FOR PLANTING IS TO INCLUDE:
 FINE GRADING AT GRADED AREAS
 MULCH- GRADED AREAS AND WEST SIDE OF PATH TO FENCING
 TREES- ALL AND ASSOCIATED BUBBLER IRRIGATION
 IRRIGATION (INCLUDES MAINLINE, CONTROLLERS, CONTROL WIRE, MEDIANS)
- ADDITIVE BID ITEMS TO INCLUDE:
 ALT. 'B'
 VINES AND ASSOCIATED BUBBLER IRRIGATION
 ALT 'C'
 REMAINING FINE GRADING, SOIL PREPARATION,
 PLANTS, TURF (EXCLUDING VINES AND TREES)
 REMAINING MULCH
 WOOD HEADER
 IRRIGATION (COMPONENTS FOR IN LINE DRIP AND SPRAY)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	61	79

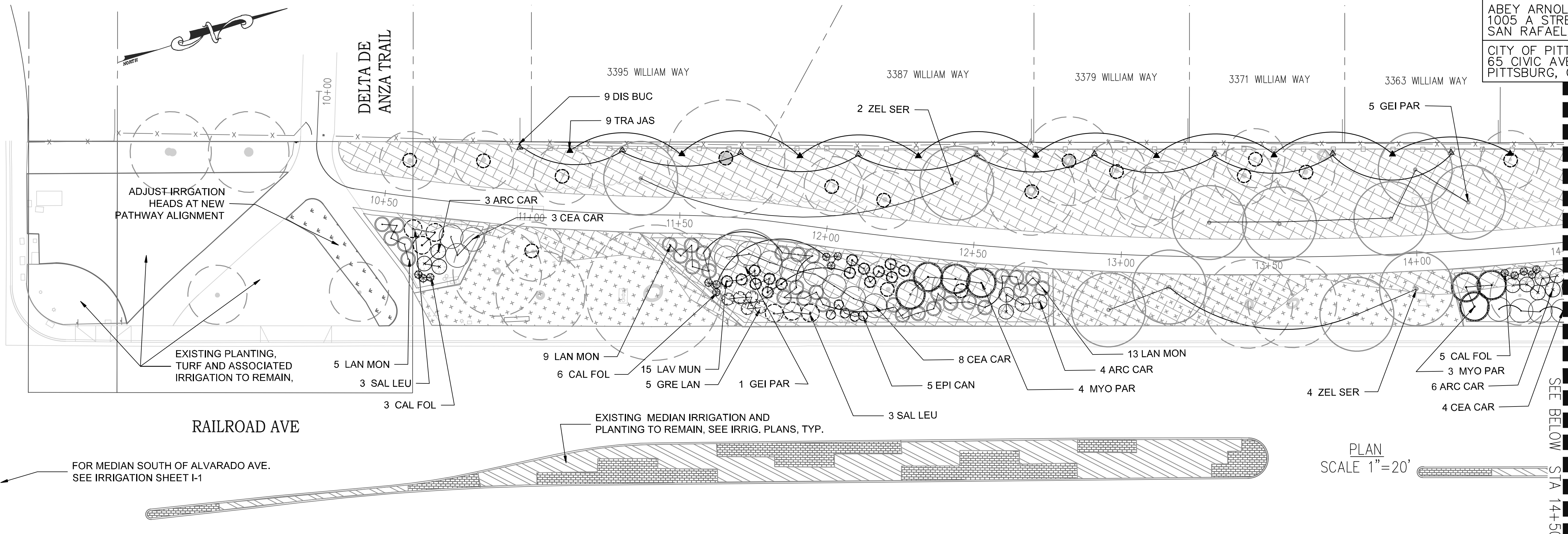
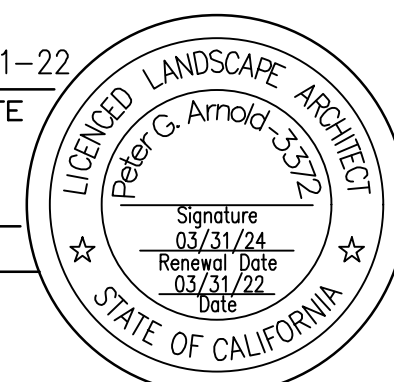
PETER G. ARNOLD *Peter G. Arnold* 03-31-22
 LICENSED LANDSCAPE ARCHITECT DATE

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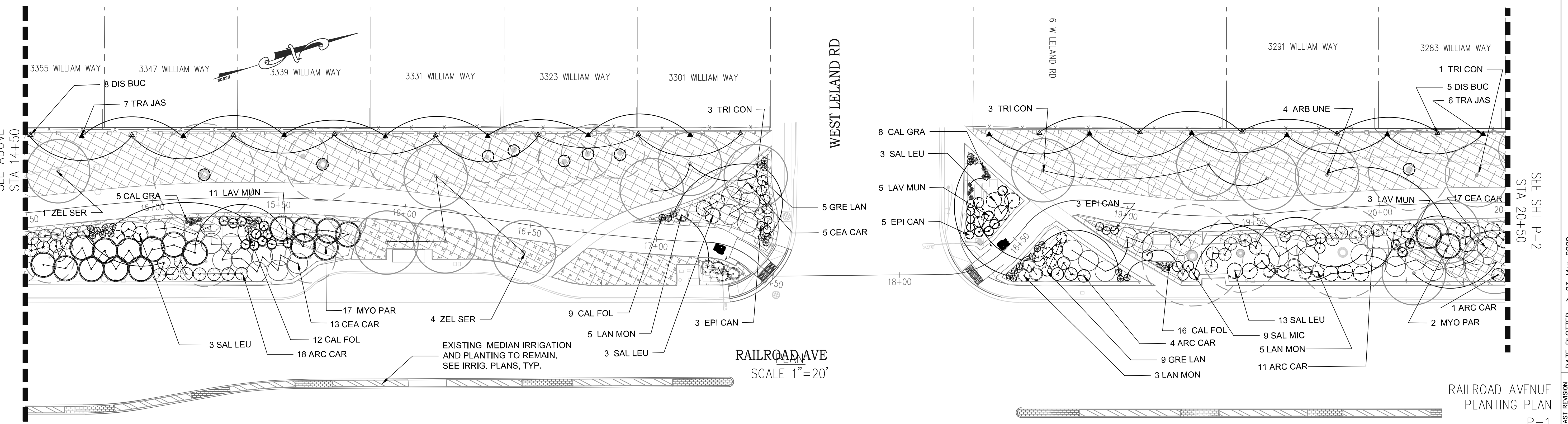
ABEY ARNOLD ASSOCIATES
 1005 A STREET, SUITE 305
 SAN RAFAEL, CA 94901

CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



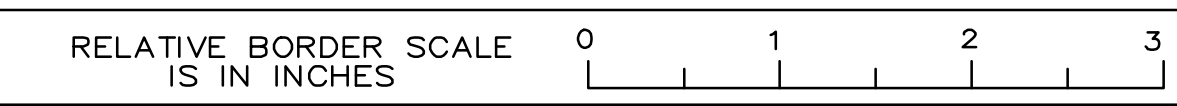
BID ITEM LEGEND

- NEW TREE, BUBBLER, (BASE BID)
- EXISTING TREE, NO IRRIGATION
- MULCHED AREA AT GRADED AREAS (BASE BID)
- TURF AREAS, WITH NEW MICROROTOR IRRIGATION, (ADD BID 'C')
- EXISTING SHRUB/GROUNDCOVER PLANTING TO REMAIN, INLINE DRIP, (ADD BID, 'C')
- EXISTING MEDIAN PLANTING AND IRRIGATION TO REMAIN, CONNECT EXISTING IRRIGATION TO NEW MAIN AND CONTROLLERS, (BASE BID)
- PROTECT EXISTING TREE, (BASE BID, DETAIL, SHEET P-5)



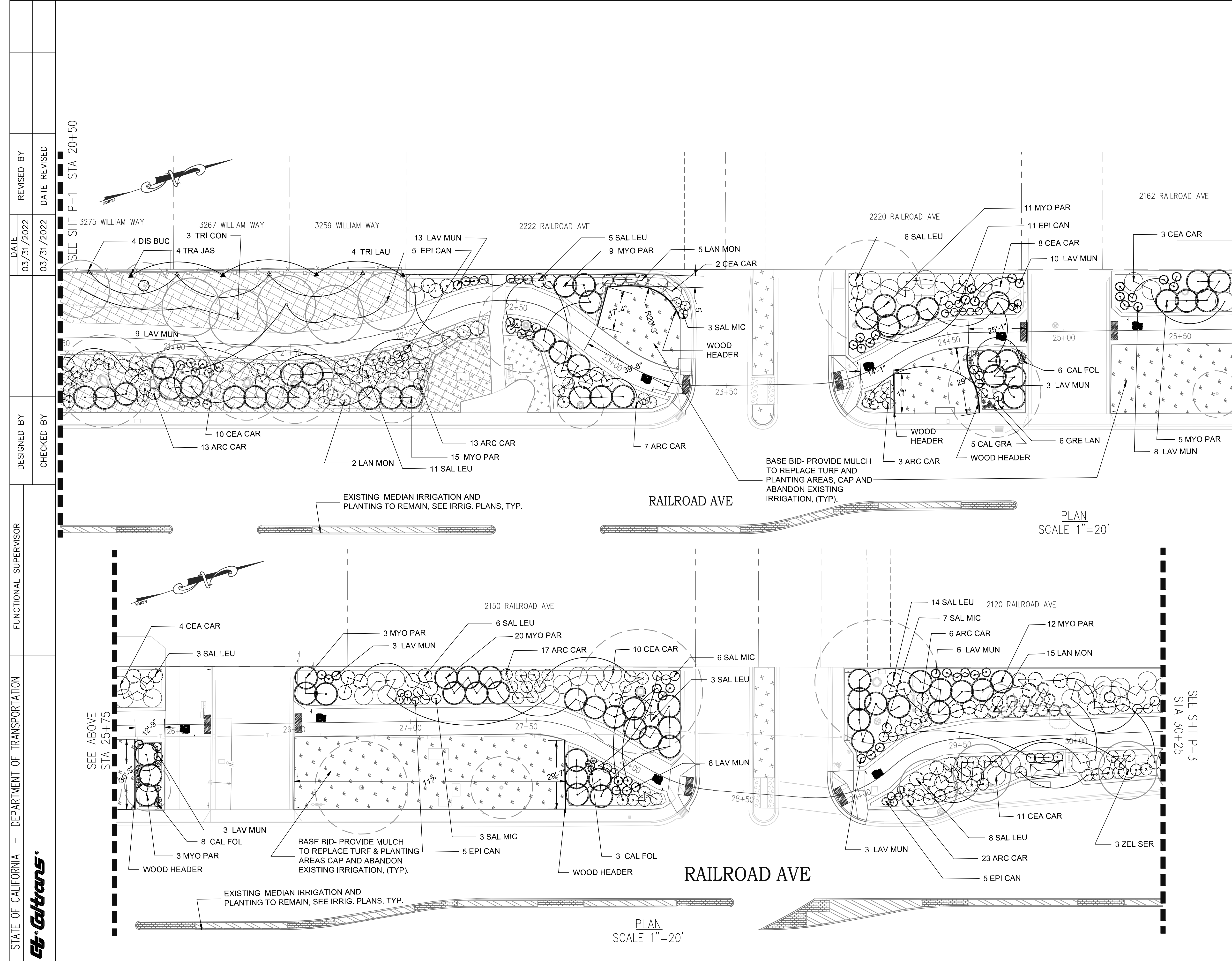
RAILROAD AVE
 SCALE 1"=20'

PLAN
 SCALE 1"=20'



DATE PLOTTED => 23-Mar-2022
 TIME PLOTTED => 14:30
 LAST REVISION 03-31-22

SEE SHIT P-2
 STA 20+50
 P-1



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	62	79

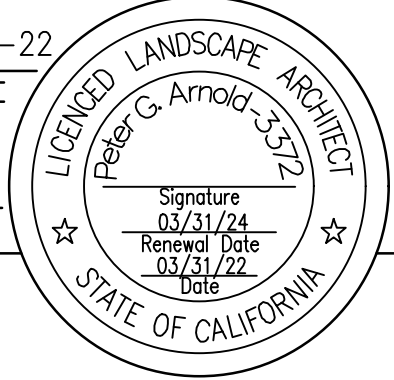
PETER G. ARNOLD
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1005 A STREET, SUITE 305
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CITY OF PITTSBURG
65 CIVIC AVENUE
PITTSBURG, CA 94565



- BID ITEM NOTES:
- SEE SHEET P-3 PLANT LIST FOR 'BASE BID' AND 'ADDITIVE BID' ITEMS.
 - BASE BID FOR PLANTING IS TO INCLUDE:
FINE GRADING AT GRADED AREAS
MULCH- AT GRADED AREAS AND WEST SIDE OF PATH TO FENCING
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IRRIGATION (INCLUDES MAINLINE, CONTROLLERS, CONTROL WIRE, MEDIANS)
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VINES AND ASSOCIATED BUBBLER IRRIGATION
ALT 'C'
REMAINING FINE GRADING, SOIL PREPARATION, PLANTS, (EXCLUDING VINES AND TREES)
TURF
REMAINING MULCH
WOOD HEADER
IRRIGATION (COMPONENTS FOR IN LINE DRIP AND SPRAY)

- BID ITEM LEGEND
- NEW TREE, BUBBLER, (BASE BID)
 - EXISTING TREE, NO IRRIGATION
 - MULCHED AREA AT GRADED AREAS (BASE BID)
 - TURF AREAS, WITH NEW MICROROTOR IRRIGATION, (ADD BID 'C')
 - EXISTING SHRUB/GROUNDCOVER PLANTING TO REMAIN, INLINE DRIP, (ADD BID, 'C')
 - EXISTING MEDIAN PLANTING AND IRRIGATION TO REMAIN, CONNECT EXISTING IRRIGATION TO NEW MAIN AND CONTROLLERS, (BASE BID)
 - PROTECT EXISTING TREE, (BASE BID, DETAIL, SHEET P-5)

REVISOR: [REDACTED] DATE: 03/31/2022

DESIGNED BY: [REDACTED] CHECKED BY: [REDACTED]

FUNCTIONAL SUPERVISOR: [REDACTED]

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

SEE SHT P-1 STA 20+50

SEE ABOVE STA 25+75

SEE SHT P-3 STA 30+25

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	63	79

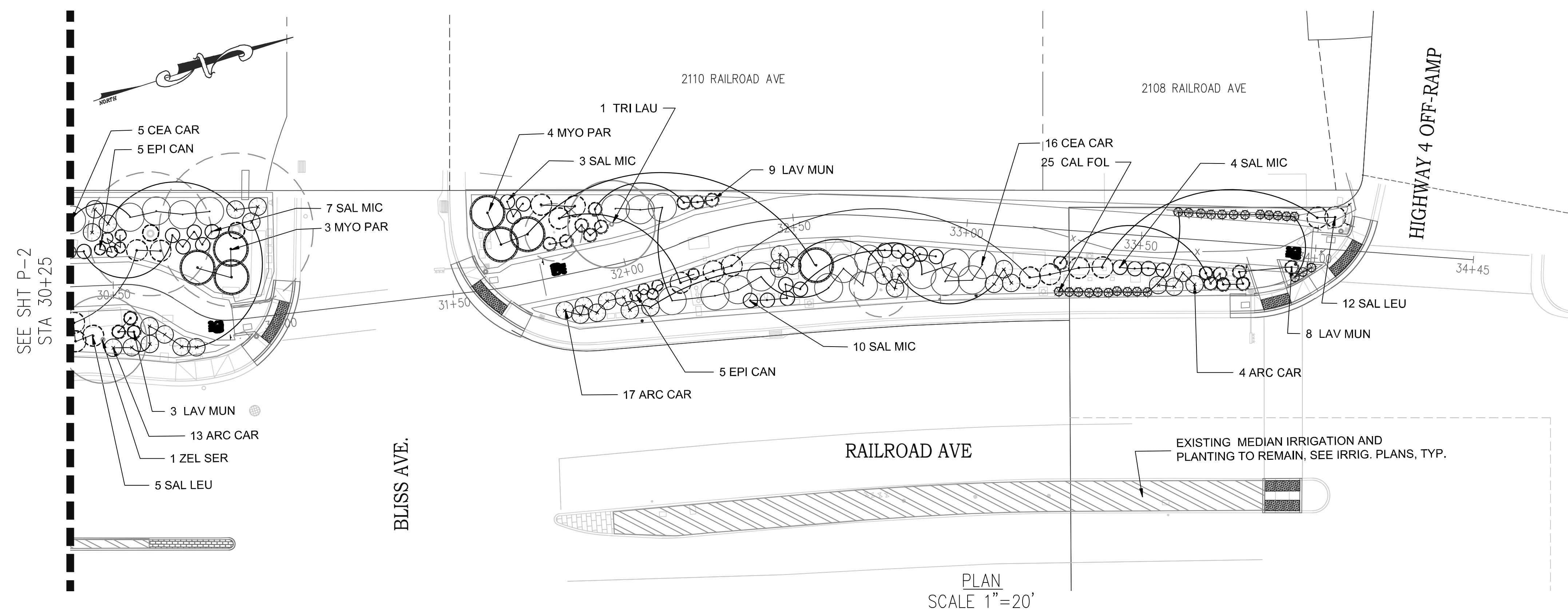
PETER G. ARNOLD *[Signature]* 03-31-22
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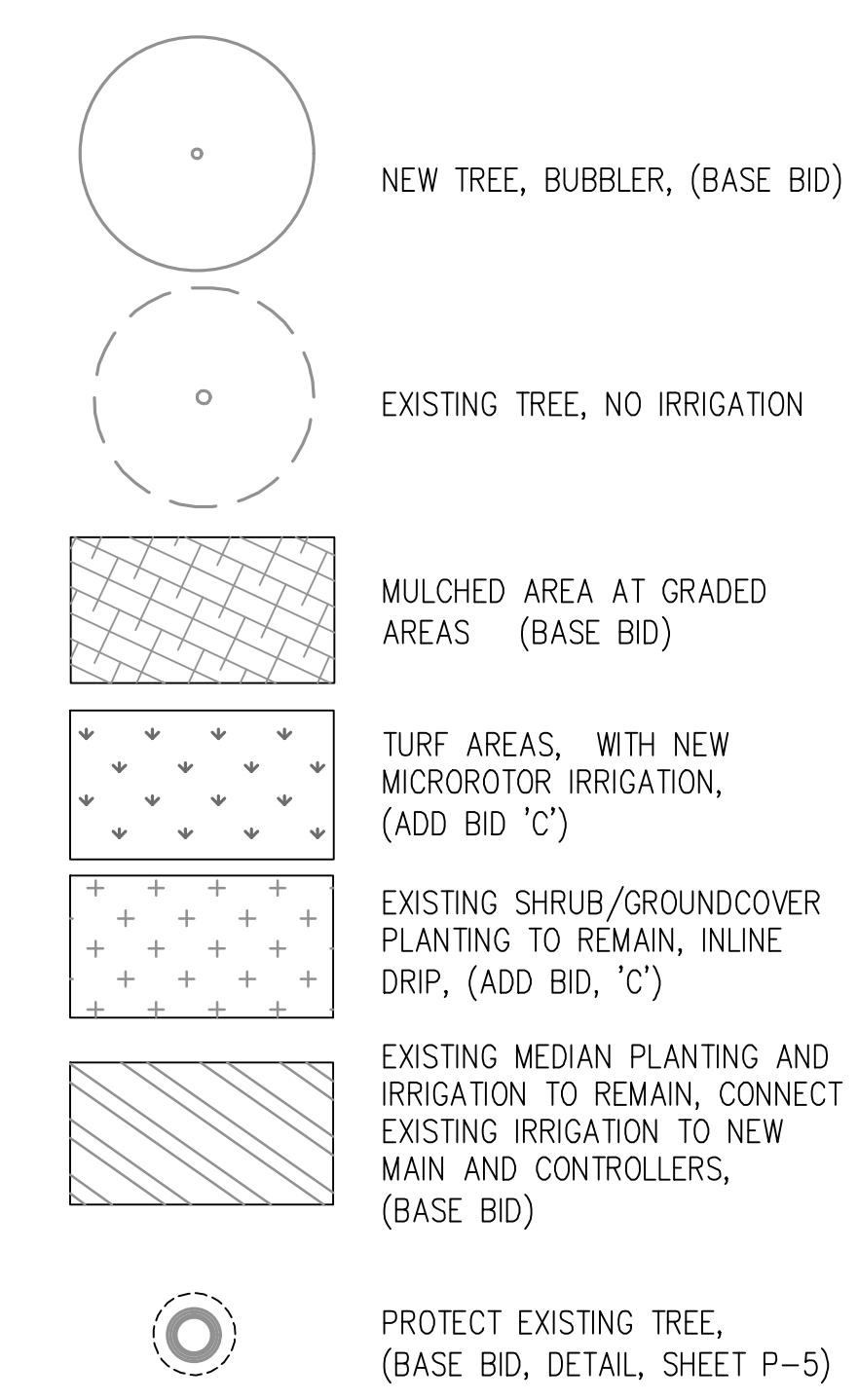
LANDSCAPE NOTES

- CONTRACTOR SHALL MEET ONSITE WITH OWNER REPRESENTATIVE PRIOR TO ANY PLANTING OR SOIL PREPARATION TO REVIEW LAYOUT AND PLANT LOCATIONS.
- CONTRACTOR SHALL NOTIFY OWNER REPRESENTATIVE IN THE EVENT OF PLANT UNAVAILABILITY IMMEDIATELY AFTER BID AWARD, NO SUBSTITUTIONS WILL BE ACCEPTED WITHOUT PRIOR APPROVAL FROM OWNER REPRESENTATIVE.
- CONTRACTOR IS RESPONSIBLE FOR SOILS TESTING, AND SOILS PREPARATION RECOMMENDATIONS. RECOMMENDATIONS ARE TO BE MADE BY AN ACCREDITED SOILS SCIENTIST, ('WAYPOINT LABS', OR EQUAL), MINIMUM OF 6 CY/1000 SF OF COMPOST, INCORPORATED TO A DEPTH OF 8". LAB RECOMMENDATIONS TAKE PRECEDENCE.
- ALL PLANTS IN A GROUP PLANTING MUST MATCH IN HEIGHT, CALIPER AND VIGOR TO ASSURE EVEN GROWTH RATES.
- ALL PLANTS SHALL BE INSTALLED PER PLAN, TO ASSURE THE ULTIMATE MATURE PLANT HAS A MINIMUM OF 18" DISTANCE FROM ADJACENT PAVING.
- AUTOMATIC IRRIGATION SYSTEM MUST BE FULLY OPERATIONAL PRIOR TO PLANTING.
- PLANTING SOIL SHALL BE COMPACTED TO 85% PRIOR TO PLANTING.
- ALL PLANTS SHALL BE INSPECTED BY THE OWNER REPRESENTATIVE EITHER PRIOR TO DELIVERY OR IMMEDIATELY AFTER DELIVERY TO THE JOBSITE. THE OWNER REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY PLANT MATERIALS DEEMED UNSUITABLE.
- BASE BID- PLANTING AREA SURFACES INDICATED ON THE PLANS, EXCLUDING MEDIANS ON S. RAILROAD AVE., ARE TO RECEIVE A 3" DEPTH LAYER OF SPECIFIED MULCH, SUBMIT SAMPLE FOR APPROVAL. NO SHREDDED MULCH WILL BE ACCEPTED.
- PLANTING AREAS WITH A SLOPE GREATER THAN 3:1 SHALL RECEIVE JUTE MESH EROSION CONTROL FABRIC, INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

PLANT LIST (Sheets P-1 thru P-3)

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANT	WUCOLS	MATURE SIZE	REMARKS
TREES							
ARB UNE	ARBUTUS UNEDO	STRAWBERRY TREE	15 GAL.	4	LOW	15'H X 15'W	STANDARD TREE
GEI PAR	GEIJERA PARVIFLORA	AUSTRALIAN WILLOW	15 GAL.	6	MOD	25'H X 20'W	STANDARD TREE
TRI LAU	TRISTANIA LAURINA	NCN	15 GAL.	5	MOD	60'H X 40'W	STANDARD TREE
TRI CON	TRISTANIA CONFERTA	BRISBANE BOX	15 GAL.	10	MOD	50'H X 30'W	STANDARD TREE
ZEL SER	ZELKOVA SERRATA, 'CITY SPRITE'	CITY SPRITE ZELKOVA	15 GAL.	15	MOD	15'H X 15'W	STANDARD TREE
SHRUBS/GROUNDCOVERS							
ARC CAR	ARCTOSTAPHYLLOS, CARMEL SUR	CARMEL SUR ARCHTOST.	1 GAL.	164	LOW	1' H X 8' W	
CEA CAR	CEANOTHUS GRISEUS, CARMEL CREEPER	CARMEL CREEPER	1 GAL.	119	LOW	1.5' H X 6' W	
GRE LAN	GREVILLEA LANIGERA, COASTAL GEM	COASTAL GEM GREVILLEA	1 GAL.	25	LOW	1.5' H X 4' W	
LAN MON	LANTANA MONTIVIDENSIS	TRAILING LANTANA	1 GAL.	64	LOW	1.5' H X 4' W	
MYO PAR	MYOPORUM PARVIFOLIUM	TRAILING MYOPORUM	1 GAL.	111	LOW	9" H X 10' W	
PERENNIALS							
EPI CAN	EPILOBIUM CANUM	CALIF. FUCHSIA	1 GAL.	52	LOW	1.5'H X 2.5'W	
LAV MUN	LAVANDULA ANGUSTIFOLIA, MUNSTEAD	ENGLISH LAVENDER	1 GAL.	120	LOW	3' H X 3' W	
SAL LEU	SALVIA LEUCANTHA, 'SANTA BARBARA'	SANTA BARBARA SALVIA	1 GAL.	106	LOW	2.5' H X 6' W	
SAL MIC	SALVIA MICROPHYLLA	HOT LIPS SALVIA	1 GAL.	55	LOW	3'H X 4' W	
SUCCULENTS							
CAL GRA	CALANDRINIA GRANDIFLORA	ROCK PURSLANE	1 GAL.	18	LOW	2.5' H X 3' W	
GRASSES							
CAL FOL	CALAMAGROSTIS FOLIOSA	MENDOCINO REED GRASS	1 GAL.	93	LOW	18"W X 18"H	
VINES							
DIS BUC	DISTICTIS BUCCINATORIA	TRUMPET VINE	5 GAL.	26	MOD		
TRA JAS	TRACHELOSPERMUM JASMINOIDES	BOSTON IVY	5 GAL.	26	MOD		
TURF	FESTUCA ARUNDINACEA	'WEST COASTER' TALL FESCUE					STANDARD SOD (ADDITIVE BID 'C')

BID ITEM LEGEND



BID ITEM NOTES:

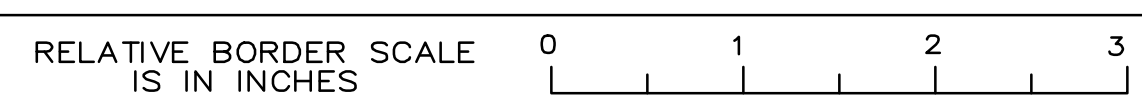
- SEE SHEET P-3 PLANT LIST FOR 'BASE BID' AND 'ADDITIVE BID' ITEMS.
- BASE BID FOR PLANTING IS TO INCLUDE:
 FINE GRADING AT GRADED AREAS
 MULCH- AT GRADED AREAS AND WEST SIDE OF PATH TO FENCING
 TREES- ALL AND ASSOCIATED BUBBLER IRRIGATION IRRIGATION (INCLUDES MAINLINE, CONTROLLERS, CONTROL WIRE, MEDIANS)
- ADDITIVE BID ITEMS TO INCLUDE:
 ALT. 'B'
 VINES AND ASSOCIATED BUBBLER IRRIGATION
 ALT 'C'
 REMAINING FINE GRADING,
 SOIL PREPARATION,
 PLANTS, (EXCLUDING VINES AND TREES)
 TURF
 REMAINING MULCH
 WOOD HEADER
 IRRIGATION (COMPONENTS FOR IN LINE DRIP AND SPRAY)

DESIGNED BY	DATE	REVISOR	DATE
CHECKED BY	03/31/2022	03/31/2022	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

BORDER LAST REVISED 8/1/2010

USERNAME => peter
 DWG FILE => pittsburg bart-planting master.dwg



UNIT

PROJECT NUMBER & PHASE 0421000238

EA 2W580

RAILROAD AVENUE
 PLANTING PLAN, LIST, NOTES

P-3

LAST REVISION 03-31-22
 DATE PLOTTED => 23-Mar-2022
 TIME PLOTTED => 14:33

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	64	79

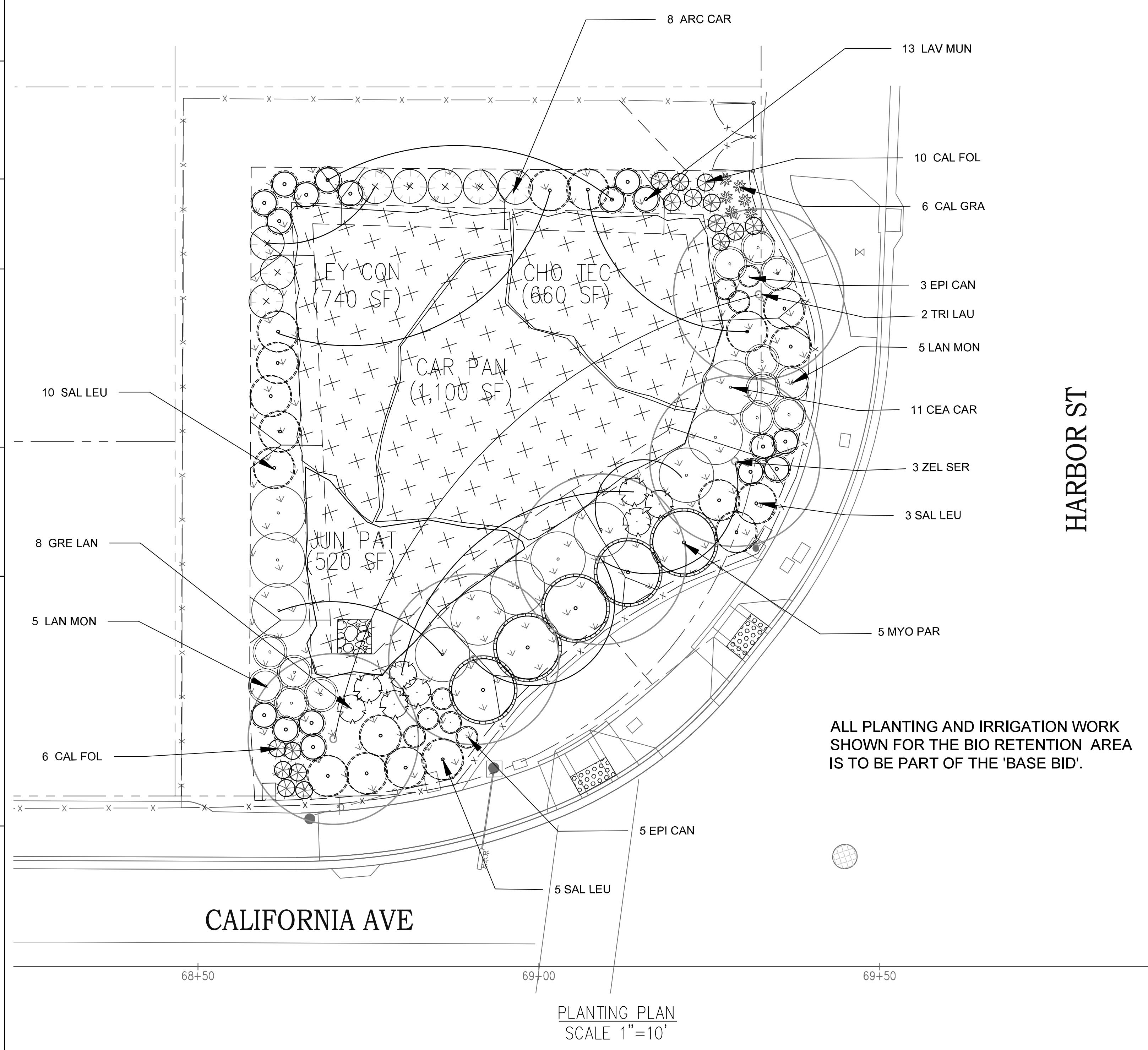
PETER G. ARNOLD *Peter G. Arnold* 03-31-22
 LICENSED LANDSCAPE ARCHITECT DATE

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

ABEY ARNOLD ASSOCIATES
 1005 A STREET, SUITE 305
 SAN RAFAEL, CA 94901

CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



LEGEND:

ROCK MULCH, 3" depth

BARK MULCH, 3" depth

PLANT LIST (Bioretention Area)

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANT	WUCOLS	MATURE SIZE	REMARKS
TREES							
TRI LAU	TRISTANIA LAURINA	NCN	15 GAL	2	MOD	30'H X 250'W	STANDARD
ZEL SER	ZELKOVA SERRATA, 'CITY SPRITE'	CITY SPRITE ZELKOVA	15 GAL	3	MOD	25'H X 35'W	STANDARD
SHRUBS/GROUNDCOVERS							
ARC CAR	ARCTOSTAPHYLOS, CARMEL SUR	CARMEL SUR ARCHTOST.	1 GAL.	8	LOW	1' H X 8' W	
CEA CAR	CEANOTHUS THYRSIFLORUS	CARMEL CREEPER	1 GAL.	11	LOW	1.5' H X 6' W	
GRE LAN	GREVILLEA LANIGERA, COASTAL GEM	COASTAL GEM GREVILLEA	1 GAL.	8	LOW	1.5'H X 4' W	
LAN MON	LANTANA MONTIVIDENSIS	TRAILING LANTANA	1 GAL.	13	LOW	1.5' H X 4' W	
PERENNIALS							
EPI CAN	EPILOBIUM CANUM	CALIF. FUCHSIA	1 GAL.	8	LOW	1.5'H X 2.5'W	
LAV MUN	LAVANDULA ANGUSTIFOLIA, MUNSTEAD	ENGLISH LAVENDER	1 GAL.	17	LOW	3' H X 3' W	
SAL LEU	SALVIA LEUCANTHA, 'SANTA BARBARA'	SANTA BARBARA SALVIA	1 GAL	18	LOW	2.5' H X 6' W	
SUCCULENTS							
CAL GRA	CALANDRINIA GRANDIFLORA	MENDOCINO REED GRASS	1 GAL	6	LOW	2.5' H X 3' W	
GRASSES							
CAR PAN	CAREX TUMULICOLA	BERKELEY SEDGE	1 GAL.	275	LOW	18"W X 18"H	PLANT 24" O.C.
CHO TEC	CHONDRAPETALUM TECTORUM	SMALL CAPE RUSH	1 GAL.	164	LOW	2"W X 3'H	PLANT 24" O.C.
JUN PAT	JUNCUS PATENS	BLUE RUSH	1 GAL	58	LOW	2"W X 3' H	PLANT 36" O.C.
LEY CON	LEYMUS CONDENSATUS	CANYON PRINCE WILD RYE	1 GAL	82	LOW	3'W X 3' H	PLANT 36" O.C.

ALL PLANTING AND IRRIGATION WORK SHOWN FOR THE BIO RETENTION AREA IS TO BE PART OF THE 'BASE BID'.

PLANTING PLAN
 SCALE 1"=10'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	65	79

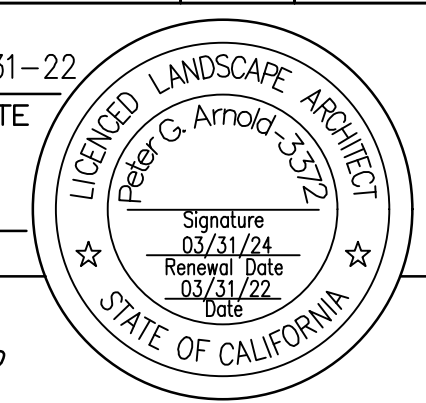
PETER G. ARNOLD *Peter G. Arnold* 03-31-22
 LICENSED LANDSCAPE ARCHITECT DATE

PLANS APPROVAL DATE

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ABEY ARNOLD ASSOCIATES
 1005 A STREET, SUITE 305
 SAN RAFAEL, CA 94901

CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

FUNCTIONAL SUPERVISOR

DESIGNED BY

CHECKED BY

REVISOR

DATE

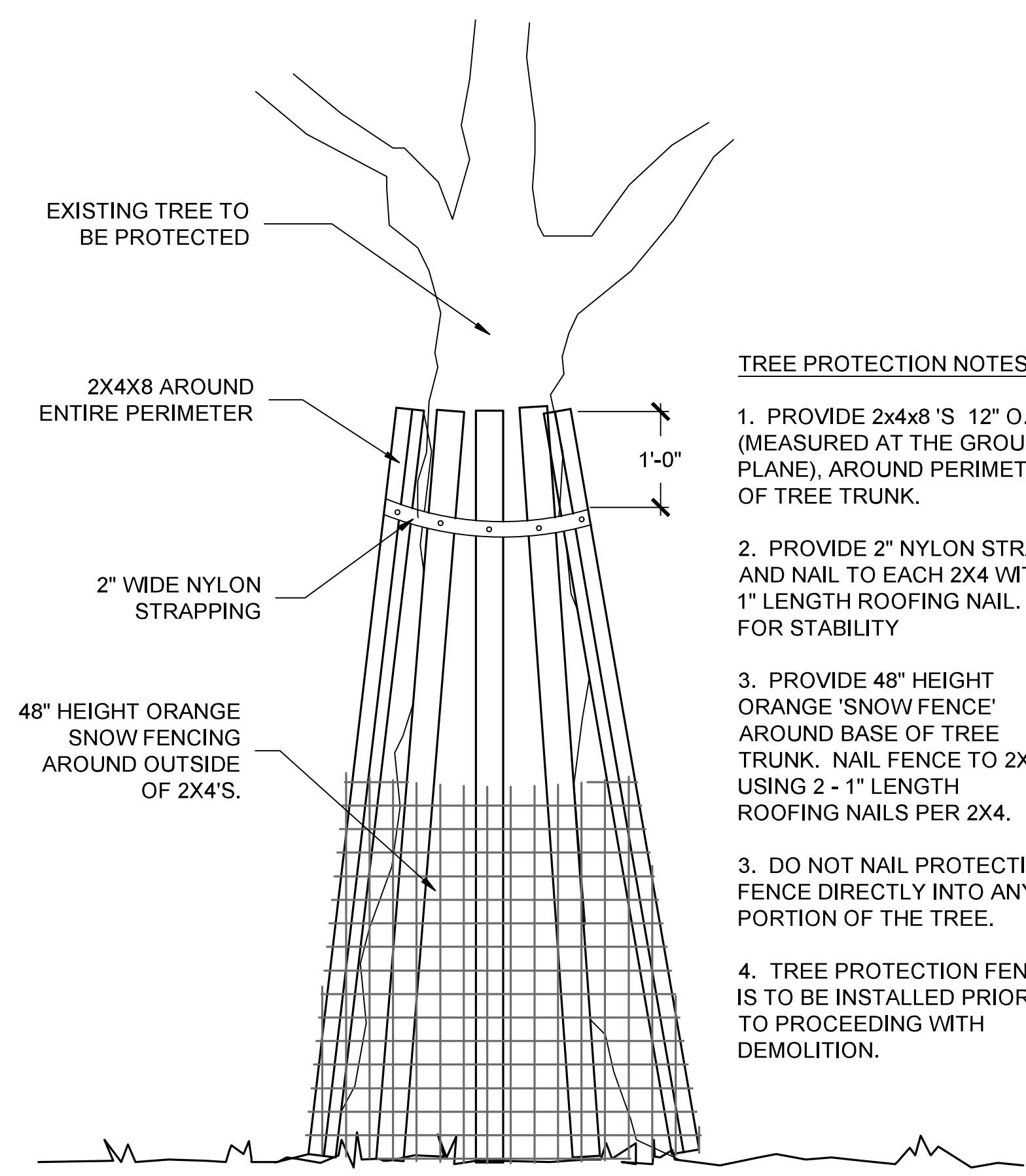
REVISION

DATE

REVISION

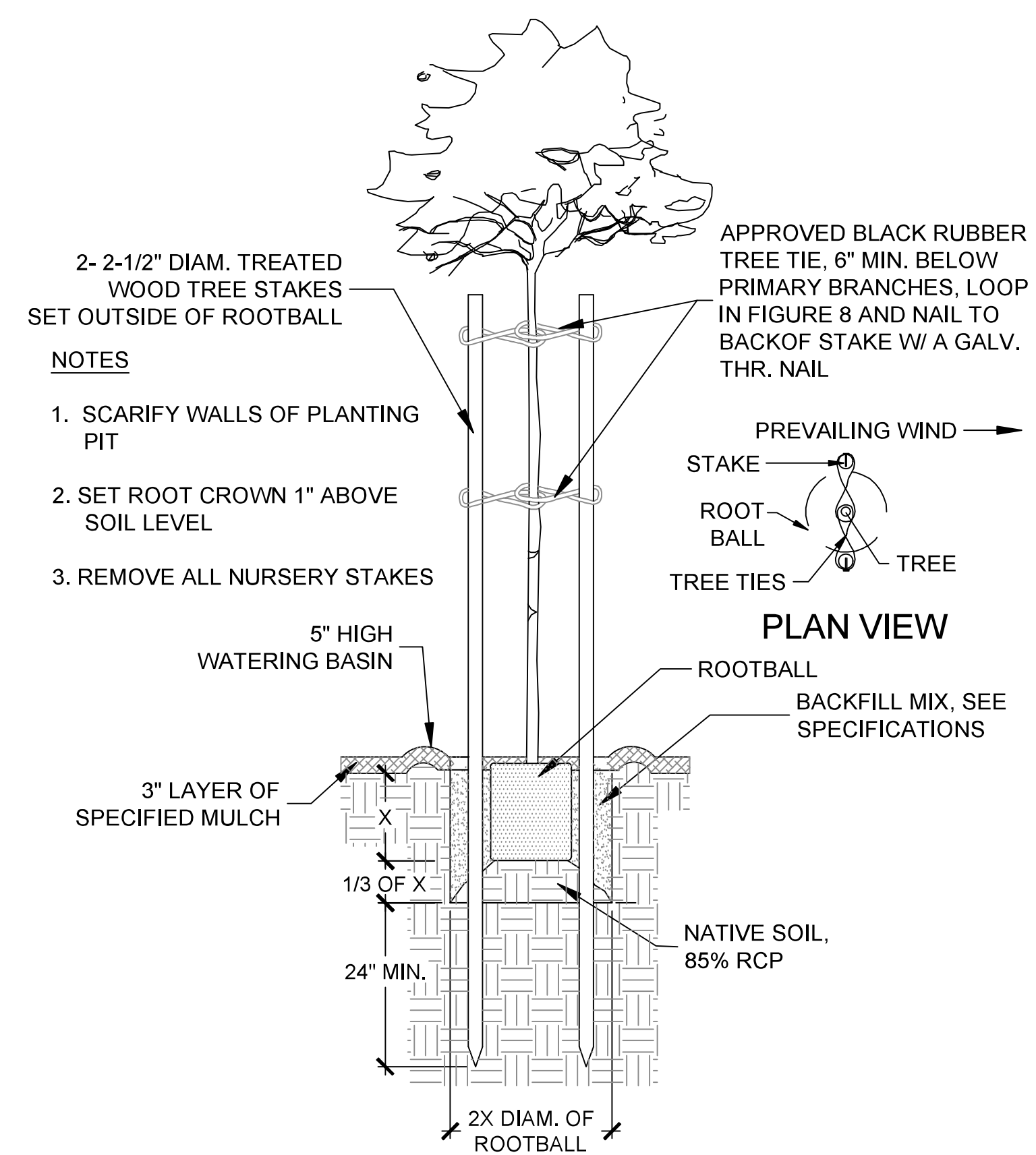
DATE

REVISION



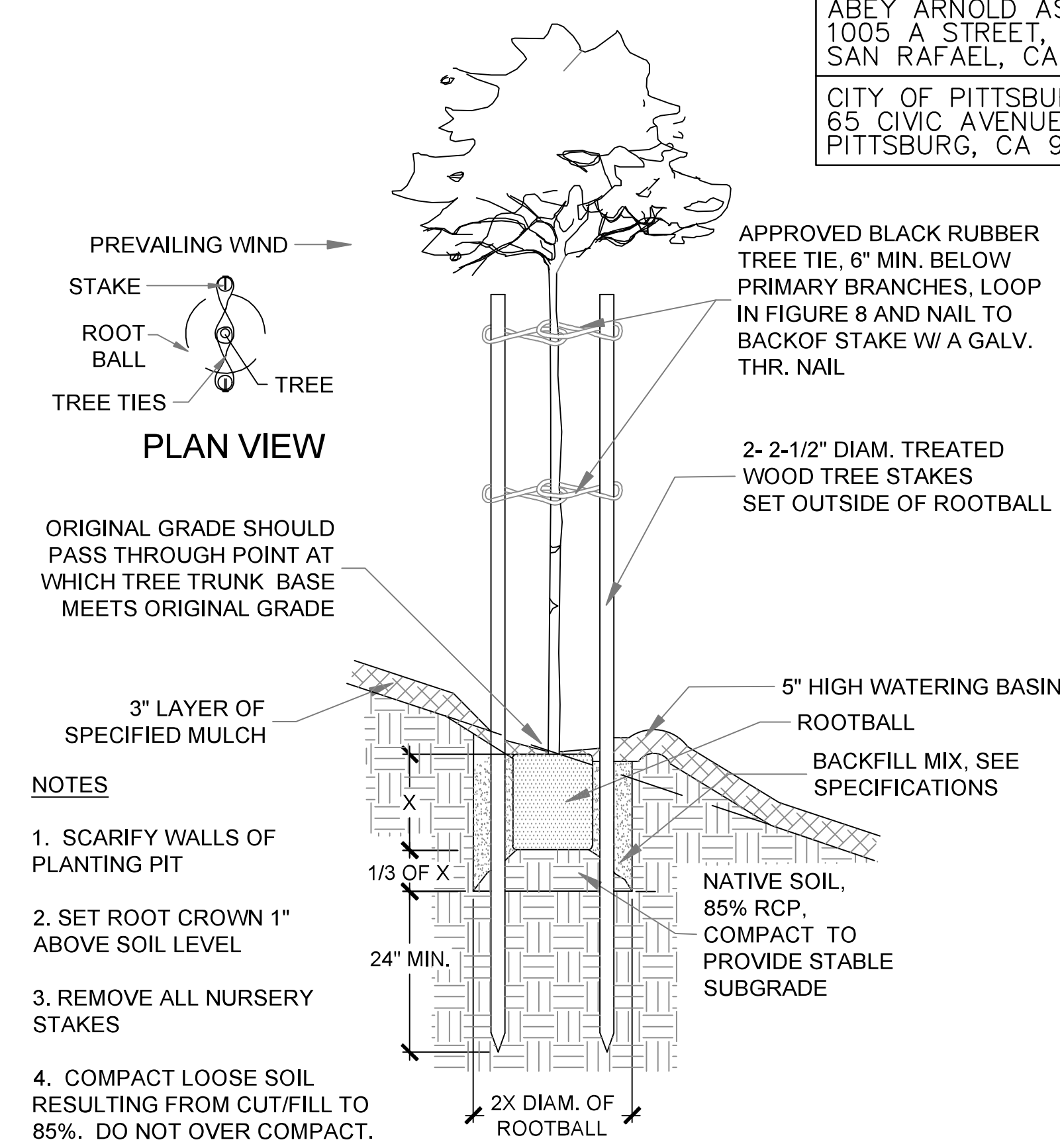
- TREE PROTECTION NOTES**
1. PROVIDE 2x4x8 'S' 12" O.C. (MEASURED AT THE GROUND PLANE), AROUND PERIMETER OF TREE TRUNK.
 2. PROVIDE 2" NYLON STRAP AND NAIL TO EACH 2X4 WITH 1" LENGTH ROOFING NAIL FOR STABILITY
 3. PROVIDE 48" HEIGHT ORANGE 'SNOW FENCE' AROUND BASE OF TREE TRUNK. NAIL FENCE TO 2X4'S USING 2 - 1" LENGTH ROOFING NAILS PER 2X4.
 3. DO NOT NAIL PROTECTIVE FENCE DIRECTLY INTO ANY PORTION OF THE TREE.
 4. TREE PROTECTION FENCE IS TO BE INSTALLED PRIOR TO PROCEEDING WITH DEMOLITION.

TREE PROTECTION DETAIL, (base bid)



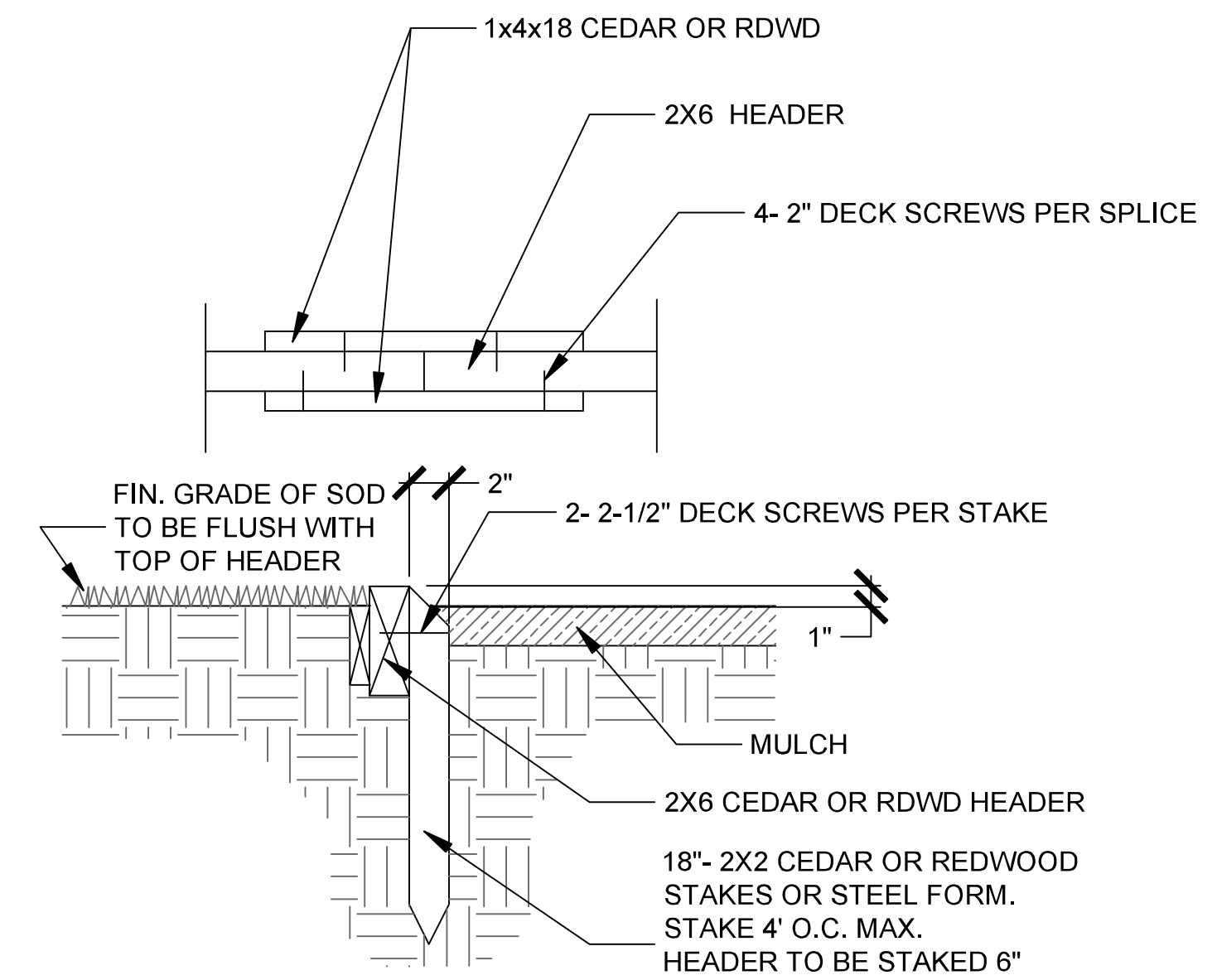
- NOTES**
1. SCARIFY WALLS OF PLANTING PIT
 2. SET ROOT CROWN 1" ABOVE SOIL LEVEL
 3. REMOVE ALL NURSERY STAKES

TREE PLANTING DETAIL(BASE BID)

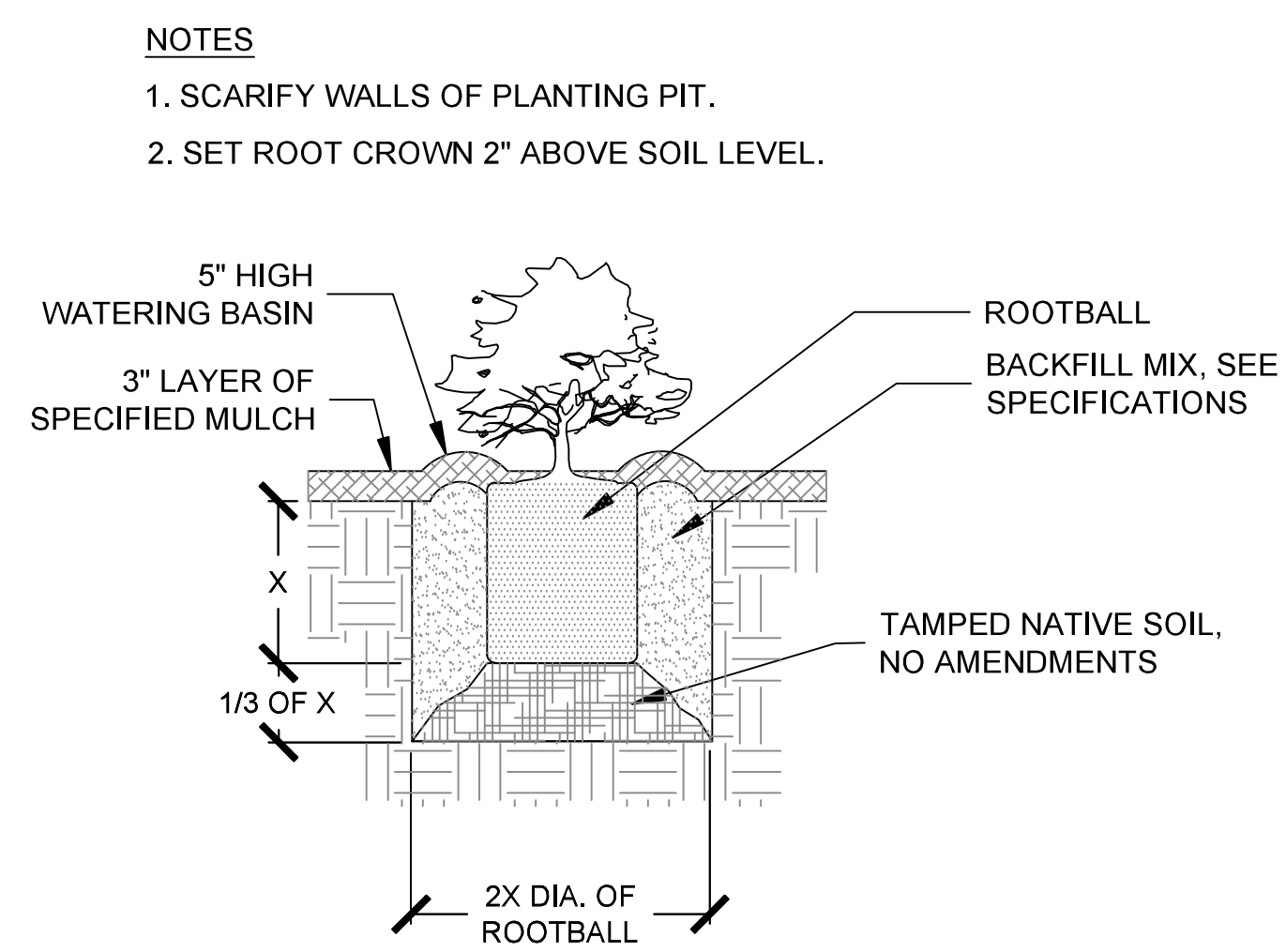


- NOTES**
1. SCARIFY WALLS OF PLANTING PIT
 2. SET ROOT CROWN 1" ABOVE SOIL LEVEL
 3. REMOVE ALL NURSERY STAKES
 4. COMPACT LOOSE SOIL RESULTING FROM CUT/FILL TO 85%. DO NOT OVER COMPACT.

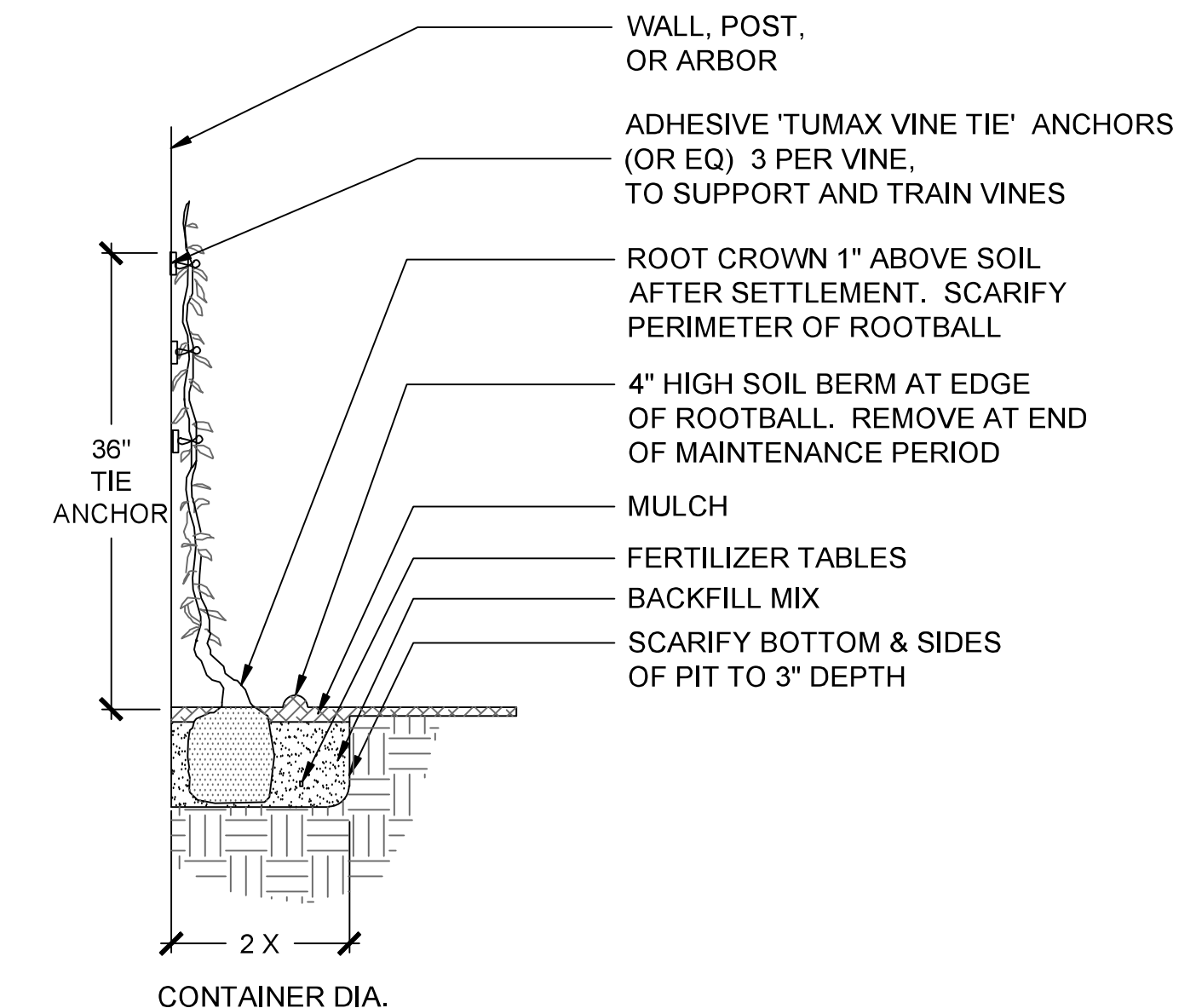
TREE PLANTING ON SLOPE, 20:1-2:1 (BASE BID)



WOOD HEADER (ADD BID 'C')



SHRUB PLANTING DETAIL, (ADD BID 'C')



VINE PLANTING DETAIL,(ADD BID 'B')

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE 2022 EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS, 2022 EDITION STANDARD SPECIFICATIONS, CITY OF PITTSBURG STANDARD PLANS, AND 2014 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CAMUTCD), REVISION 5.
2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL EXISTING UNDERGROUND UTILITIES, WHETHER OR NOT THEY ARE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CONTACT USA (811/800 227-2600) AT LEAST 48 HOURS BEFORE BEGINNING WORK. THE CONTRACTOR SHALL POTHOLE ALL PROPOSED TRAFFIC SIGNAL LOCATIONS TO VERIFY/CONFIRM EXISTING UNDERGROUND UTILITIES, PRIOR TO ORDERING TRAFFIC SIGNAL EQUIPMENT.
3. EXISTING IMPROVEMENTS, INCLUDING SUBSTRUCTURES THAT ARE DAMAGED BY THE CONTRACTOR, WHICH ARE NOT DESIGNATED BY THE PLANS OR SPECIFICATIONS TO BE DISTURBED, SHALL BE RESTORED OR REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
4. ALL ELECTRICAL EQUIPMENT, INCLUDING SIGNAL POLES AND SERVICE/CONTROLLER CABINETS, ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. PROPOSED FINAL LOCATIONS ARE TO BE APPROVED IN THE FIELD BY THE ENGINEER PRIOR TO EXCAVATION FOR FOUNDATIONS. THE CONTRACTOR SHALL GIVE 48 HOURS NOTICE FOR APPROVAL OF PROPOSED EQUIPMENT LOCATIONS.
5. ALL PULL BOXES SHALL BE NO. 5 AND LABELED PER 2022 CALTRANS SPECIFICATIONS, UNLESS OTHERWISE NOTED ON THE PLANS.
6. THE CONTRACTOR SHALL CONTACT THE CITY OF PITTSBURG ENGINEER'S OFFICE FOR APPROVAL 7 DAYS PRIOR TO ANTICIPATED ENERGIZING OF THE NEW SIGNAL EQUIPMENT.
7. CONTRACTOR SHALL SUBMIT TO THE CITY OF PITTSBURG FOR REVIEW AND APPROVAL A TRAFFIC CONTROL PLAN FOR SIGNAL CONSTRUCTION (INCLUDE WORK HOURS, DATE, LANE CLOSURE, AND PEDESTRIAN AND VEHICLE TRAFFIC CONTROL). ANY TRAFFIC SIGNAL SHUT DOWN AS REQUIRED FOR ALTERATION TO ELECTRICAL SYSTEM SHALL BE LIMITED TO WEEKENDS OR LATE NIGHT ON WEEKDAYS (11:00 PM TO 5:00 AM).
8. ALL APS ASSEMBLIES SHALL BE POLARA INS3 (UNLESS OTHERWISE SPECIFIED ON PLANS) AND MEET CALTRANS SPECIFICATIONS.
9. ALL NEW ELECTRICAL EQUIPMENT SHALL NOT BE INSTALLED WITHIN ANY CURB RAMP BOUNDARY.
10. APS SHALL BE LOCATED AS SHOWN ON THESE PLANS AND IN CONFORMANCE WITH SHEET E-2.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	66	79

REGISTERED CIVIL ENGINEER: *John J. Peterman* 04-24-23 DATE

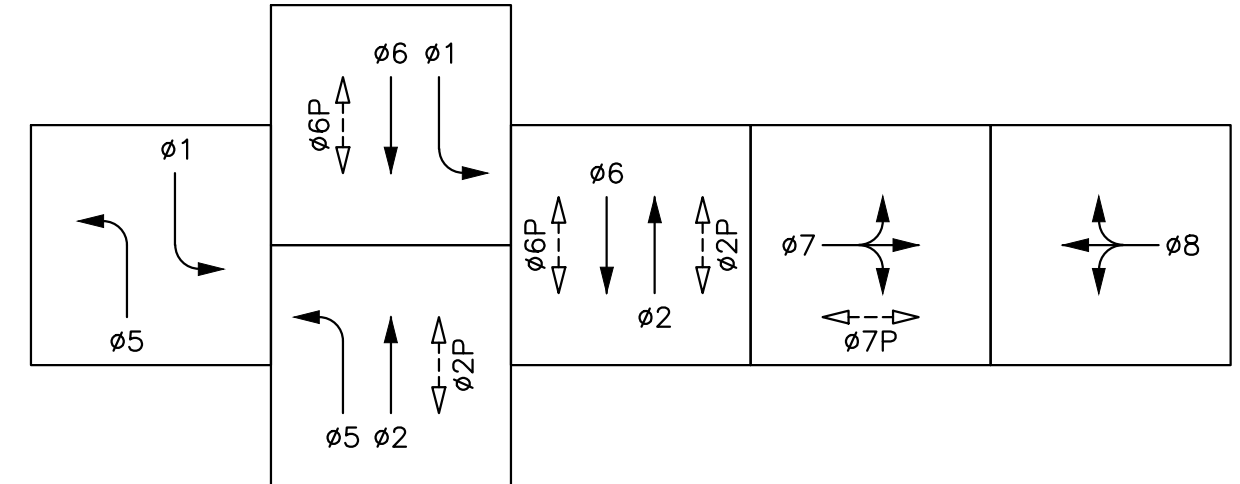
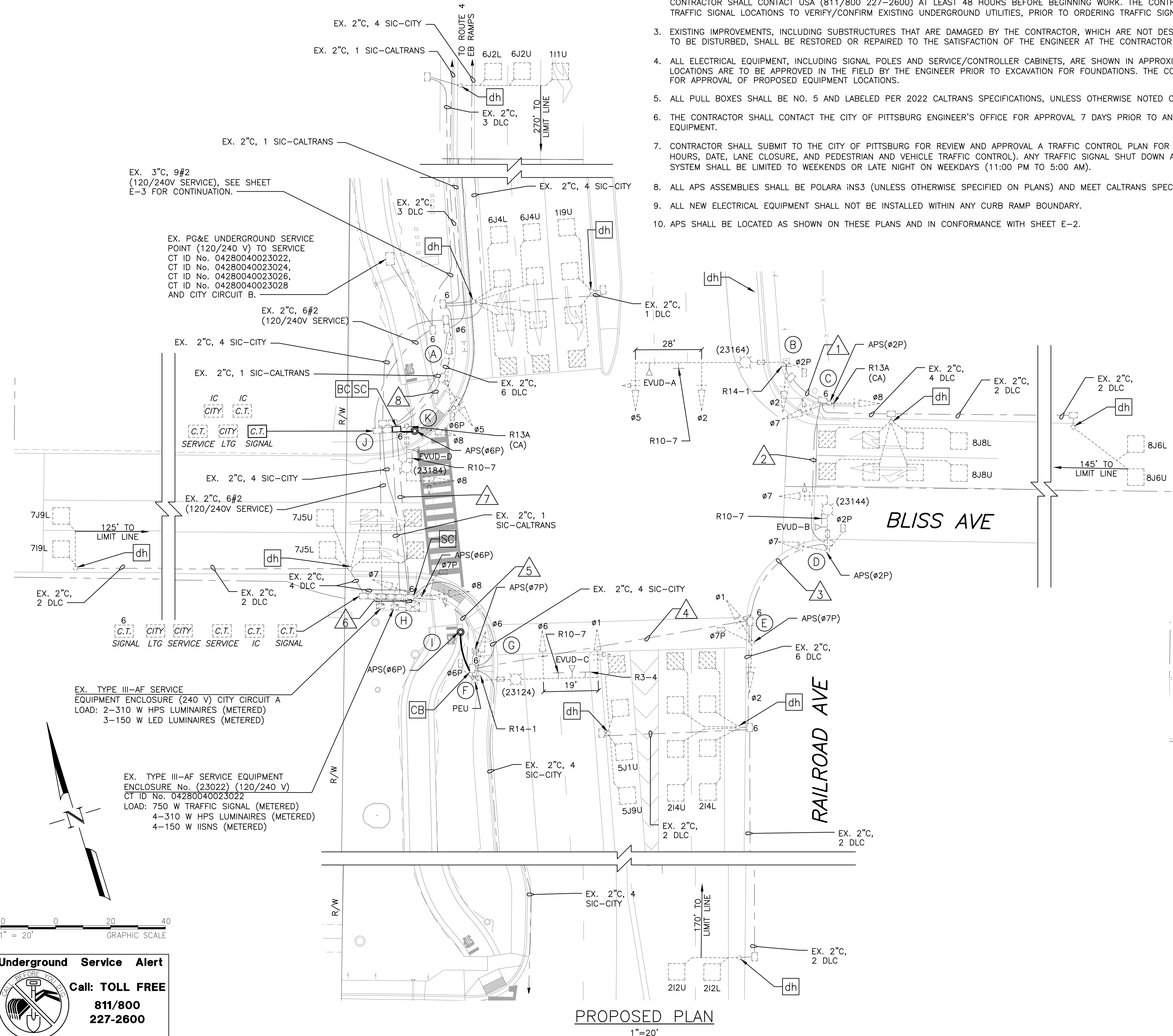
PLANS APPROVAL DATE

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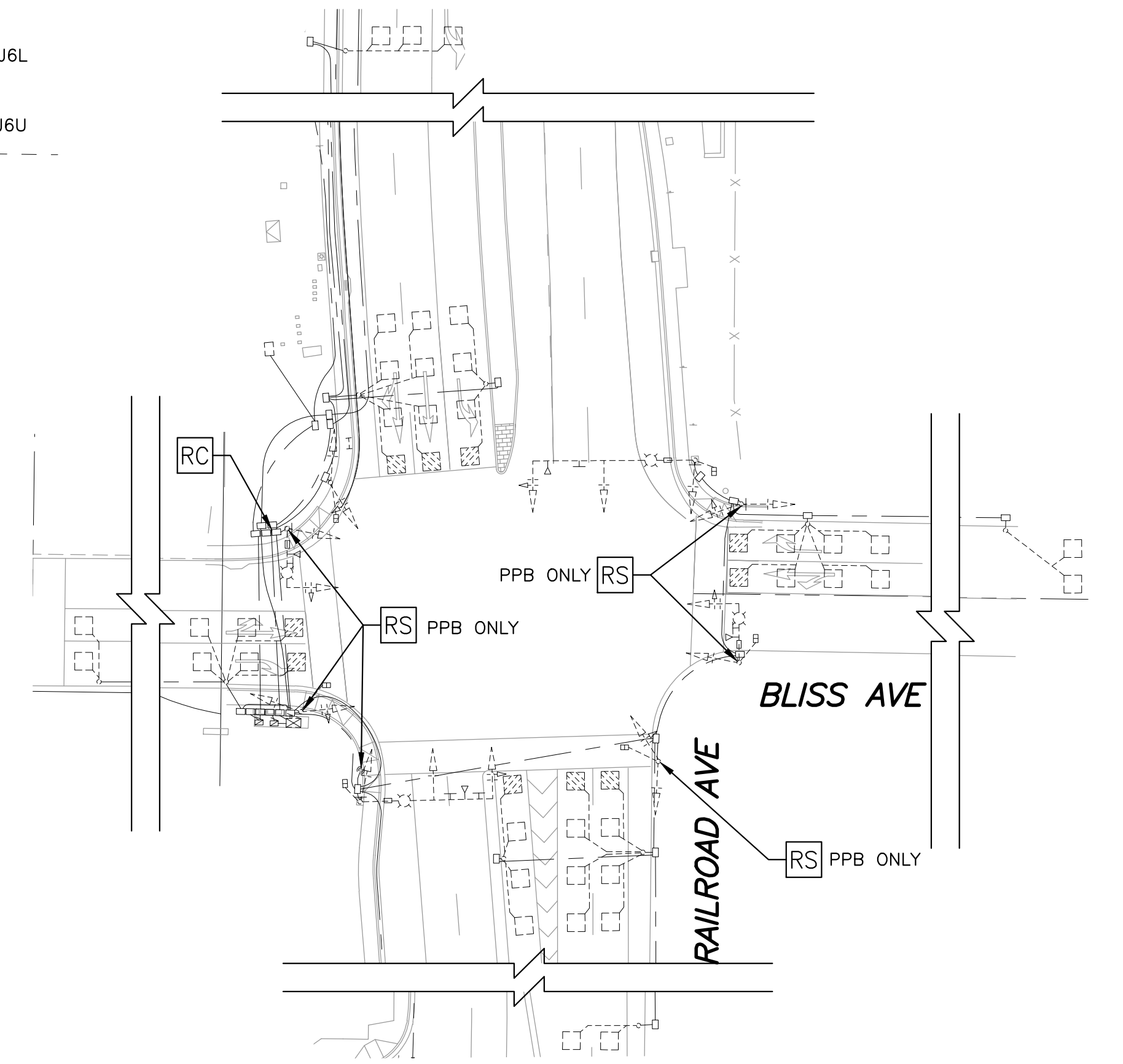
FEHR & PEERS
 100 PRINGLE AVENUE, SUITE 600
 WALNUT CREEK, CA 94596

CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565

REGISTERED PROFESSIONAL ENGINEER
 JOSHUA J. PETERMAN
 62301
 CIVIL
 STATE OF CALIFORNIA



EXISTING PHASE DIAGRAM (TO REMAIN)
 (EMERGENCY VEHICLE PREEMPTION)
 EVUD-A = 02 + 05
 EVUD-B = 07
 EVUD-C = 01 + 06
 EVUD-D = 08



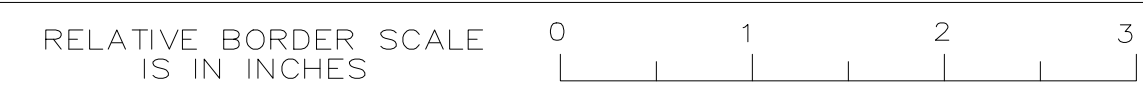
EXIST TRAFFIC SIGNAL
 1"=40'



Underground Service Alert
 Call: TOLL FREE
811/800 227-2600
 TWO WORKING DAYS BEFORE YOU DIG

PROPOSED PLAN
 1"=20'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

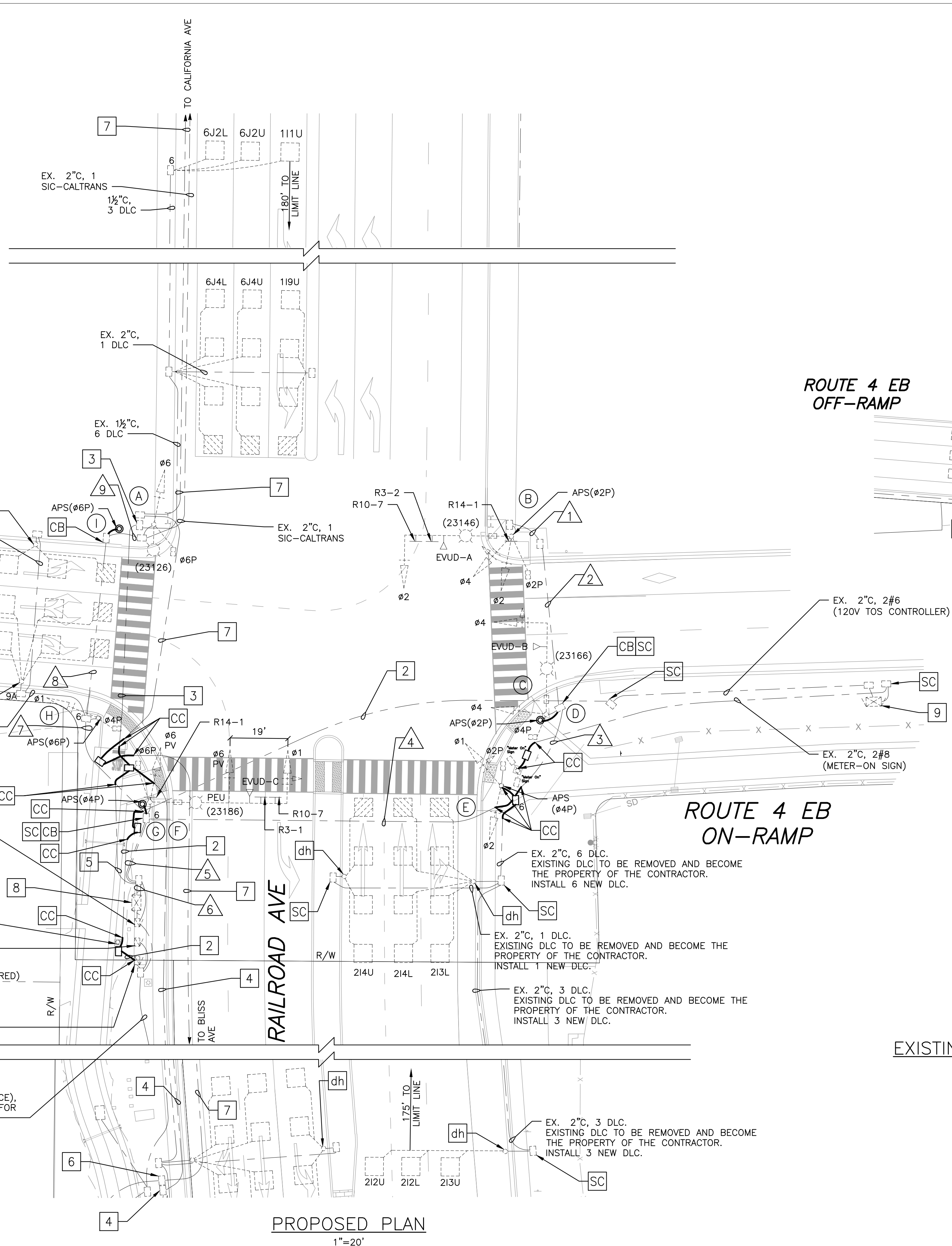


**RAILROAD AVE & BLISS AVE
 TRAFFIC SIGNAL MODIFICATION PLAN
 E-1**

DATE PLOTTED => 20-Dec-2022
 TIME PLOTTED => 22:51
 LAST REVISION 04-24-23

LEGEND (THIS SHEET ONLY):

- 1 PROTECT IN PLACE EXISTING RAMP METERING EQUIPMENT.
- 2 EX. 2" C, 2#6 (120V TOS CONTROLLER). 2#6 TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR. INSTALL 2#6 (120V TOS CONTROLLER).
- 3 EX. 2" C, 1 SIC-CALTRANS. DISCONNECT SIC CABLE AT SIGNAL CONTROLLER (ROUTE 4 EB RAMPS & RAILROAD AVE) AND PULL CABLE BACK TO NEXT ADJACENT UPSTREAM (NORTH) PULL BOX. RE-PULL SIC BACK THRU NEW PULLBOX ONCE CONDUIT IS RECONNECTED. RECONNECT SIC IN SIGNAL CABINET.
- 4 EX. 2" C, 1 SIC-CALTRANS. DISCONNECT SIC CABLE AT SIGNAL CONTROLLER (ROUTE 4 EB RAMPS & RAILROAD AVE) AND PULL CABLE BACK TO NEXT ADJACENT DOWNSTREAM (SOUTH) PULL BOX. RE-PULL SIC BACK THRU NEW PULLBOX ONCE CONDUIT IS RECONNECTED. RECONNECT SIC IN SIGNAL CABINET.
- 5 EX. 2" C, 2 SIC-CALTRANS. DISCONNECT SIC CABLE AT SIGNAL CONTROLLER (ROUTE 4 EB RAMPS & RAILROAD AVE) AND PULL CABLE BACK TO NEXT ADJACENT PULL BOX. RE-PULL SIC BACK THRU NEW PULLBOX ONCE CONDUIT IS RECONNECTED. RECONNECT SIC IN SIGNAL CABINET.
- 6 EXISTING CITY-OWNED INTERCONNECT SYSTEM. DISCONNECT SIC FROM SIGNAL CONTROLLER AT THE INTERSECTION OF CENTER DR./RAILROAD AVE (APPROX. 1050 FT NORTH), AND PULL CABLE BACK TO THIS LOCATION. ONCE CONDUIT IS RECONNECTED, PULL SIC CABLE BACK TO INTERSECTION OF OAK PL./RAILROAD AVE AND RECONNECT IN THE SIGNAL CABINET.
- 7 EX. 2" C, 4 SIC-CITY. REMOVE SIC FROM CONDUIT AND REINSTALL AS DESCRIBED IN NOTE 6.
- 8 EXISTING CONTROLLER AND CABINET TO REMAIN. SEE NOTE 3.
- 9 EXISTING MODEL 170E CONTROLLER IN EXISTING MODEL 334 CABINET TO REMAIN.



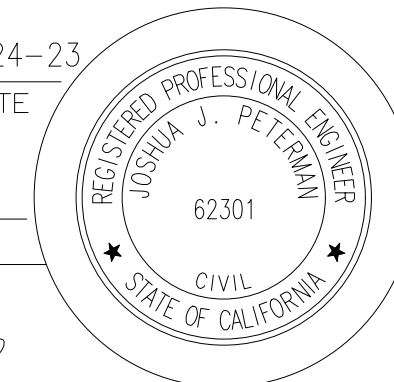
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	68	79

REGISTERED CIVIL ENGINEER
DATE: 04-24-23
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OF AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

FEHR & PEERS
100 PRINGLE AVENUE, SUITE 600
WALNUT CREEK, CA 94596

CITY OF PITTSBURG
65 CIVIC AVENUE
PITTSBURG, CA 94565



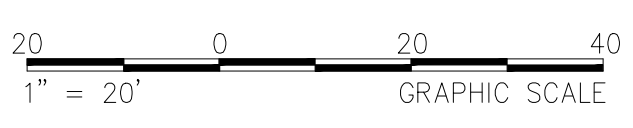
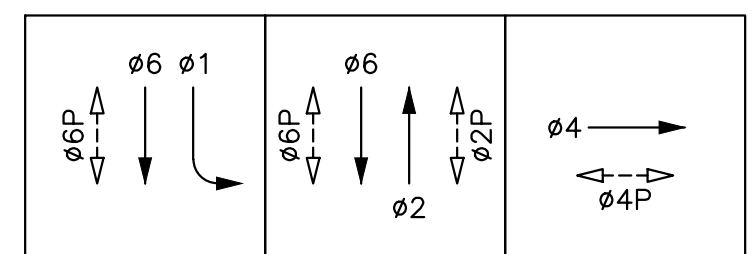
ROUTE 4 EB OFF-RAMP

ROUTE 4 EB ON-RAMP

ROUTE 4 EB OFF-RAMP

ROUTE 4 EB ON-RAMP

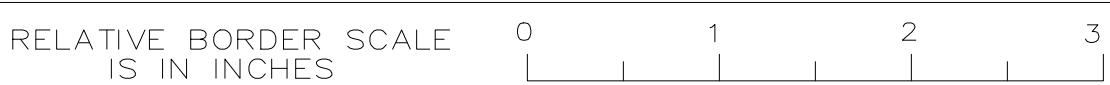
EXIST TRAFFIC SIGNAL
1"=40'



Underground Service Alert
Call: TOLL FREE 811/800 227-2600
TWO WORKING DAYS BEFORE YOU DIG

PROPOSED PLAN
1"=20'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.



RAILROAD AVE & ROUTE 4 EB RAMPS TRAFFIC SIGNAL MODIFICATION PLAN E-3

DATE PLOTTED => 20-Dec-2022 TIME PLOTTED => 22:52

AWG OR CABLE	CONDUCTOR SCHEDULE									
	CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS								
		RUN NUMBERS								
	1	2	3	4	5	6	7	8	9	
NO. 14	Ø1				(3)	3	3			
	Ø2	3	3	(3)	(3)	3	3			
	Ø4	3	3	(3)	(3)	6	6	3		
	Ø6					3	3	3	3	3
	Ø2P	2	2	(2)	(2)	2	2			
	Ø4P			(2)	(2)	4	4	2		
	Ø6P					2	2	2	2	2
	PPB (Ø2P)	1	1	(1)	(1)	1	1			
	PPB (Ø4P)				(1)	1	1			
	PPB (Ø6P)					1	1	1	1	
	PPB COMMON	1	1	(1)	(1)	2	2	1	1	
	3-WIRE APS CABLE (Ø2P)			(1)						
	3-WIRE APS CABLE (Ø4P)			(1)				(1)		
	3-WIRE APS CABLE (Ø6P)							(1)	(1)	
	PHOTOELECTRIC UNIT (120 V)					3				
IISNS (120 V)	2	2	(2)	(2)	2					
SPARES	3	3	(3)	(3)	6	6	3	3	3	
TOTAL NO. 14	15	15	(19)	(21)	39	34	15(2)	10	8(1)	
NO. 8	LUMINAIRES (240 V)	2	2	(2)	(2)	4	0	2	2	2
	SIGNAL COMMON	1	1	(1)	(1)	2	2	1	1	1
	TOTAL NO. 8	3	3	(3)	(3)	6	2	3	3	3
DLC	Ø1 (111U, 119U)					2	2	2	2	2
	Ø2 (212U, 212L, 213U, 213L, 214U, 214L)				(6)	(6)	(6)			
	Ø4 (416U, 416L, 417U, 417L, 418U, 418L)					6	6	6		
	Ø6 (6J2U, 6J2L, 6J4U, 6J4L)					4	4	4	4	4
TOTAL DLC	-	-	-	(6)	(6)12	(6)12	12	6	6	
EMERGENCY VEHICLE UNIT CABLE (EVUC)	EVUC-A	(1)	(1)	(1)	(1)	(1)	(1)			
	EVUC-B			(1)	(1)	(1)	(1)			
	EVUC-C					1	1			
	TOTAL EVUC	(1)	(1)	(2)	(2)	(2)1	(2)1	-	-	-
CONDUIT SIZE	2"	3"	3"	3"	2-3"	2-3"	3"	3"	2"	
PERCENT FILL	17%	8%	10%	16%	18%	16%	19%	11%	24%	

NOTES:
 ALL CONDUCTORS AND CABLES ARE EXISTING, UNLESS OTHERWISE NOTED.
 (N) = NEW

POLE AND EQUIPMENT SCHEDULE										
ID	STANDARD			VEH SIG MTG		PED SIGNAL MTG	APS		LED LUM WATTAGE	SPECIAL REQUIREMENTS
	TYPE	SIG MA	LUM ARM	MAST	POLE		Ø	ARROW		
(A)	15-TS	-	12'	-	SV-1-T	SP-1-T	-	-	131	-
(B)	24A-3-100	35'	15'	MAS	SV-2-TA	SP-1-T	2(N)	→	131	REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON ON SIGNAL POLE. INSTALL NEW APS ASSEMBLY AS SHOWN ON SIGNAL PLAN.
(C)	19A-2-100	30'	15'	MAS-4C	SV-1-T	SP-1-T	-	-	131	REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON ON SIGNAL POLE. CAP AND SEAL HOLE.
(D)	PBA POST (N)	-	-	-	-	-	2(N)	←	-	-
(E)	1-B	-	-	-	TV-2-T	SP-1-T	4(N)	→	-	REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON ON SIGNAL POLE. CAP AND SEAL HOLE. INSTALL NEW APS ASSEMBLY ON NORTH SIDE OF POLE.
(F)	26A-4-100	45'	15'	MAS MAS	SV-1-T	SP-1-T	-	-	131	REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON ON SIGNAL POLE. CAP AND SEAL HOLE.
(G)	PBA POST (N)	-	-	-	-	-	4(N)	←	-	-
(H)	1-B	-	-	-	TV-1-T	SP-1-T	-	→	-	REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON ON SIGNAL POLE. INSTALL NEW APS ASSEMBLY AS SHOWN ON SIGNAL PLAN.
(I)	PBA POST (N)	-	-	-	-	-	6(N)	←	-	-

NOTES:
 ALL EQUIPMENT IS EXISTING, UNLESS OTHERWISE NOTED.
 (N) = NEW

LEGEND (THIS SHEET ONLY):

- 1 INSTALL 3.5' X 3.5' TYPE D LOOP PER DETAIL ON THIS SHEET.
- 2 INSTALL DEPARTMENT-FURNISHED TWO-CHANNEL DETECTOR CARD FOR BICYCLE DETECTION.
- 3 SPLICE NEW LOOP WIRE FOR THROUGH LANES TO EXISTING DLC. SPLICE NEW BICYCLE LOOP WIRE TO NEW DLC.
- 4 EX. 2°C, 4 SIC-CITY. SEE NOTE 6 ON SHEET E-3.

REVISED BY
SHANE RUSSELL

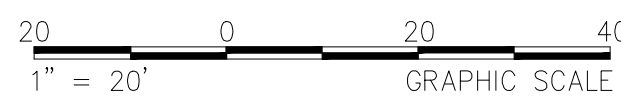
DATE
04/24/2023

CHECKED BY
JOSH PETERMAN

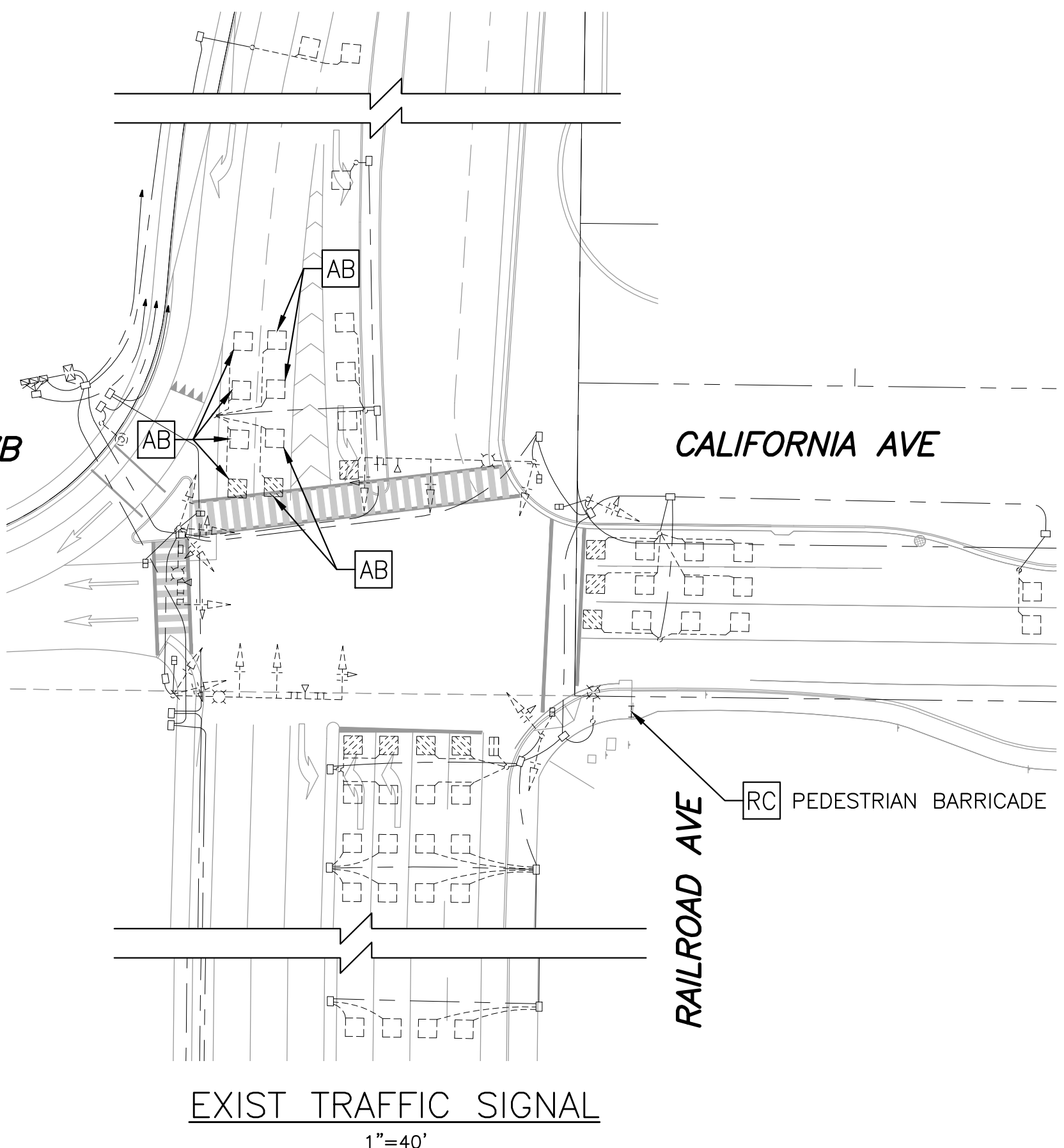
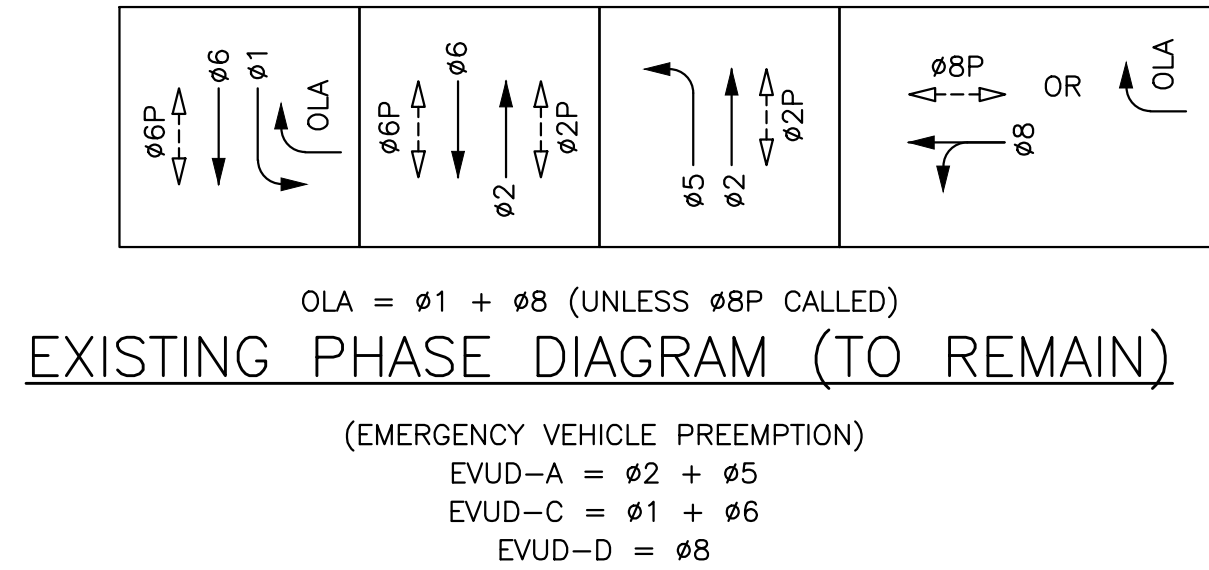
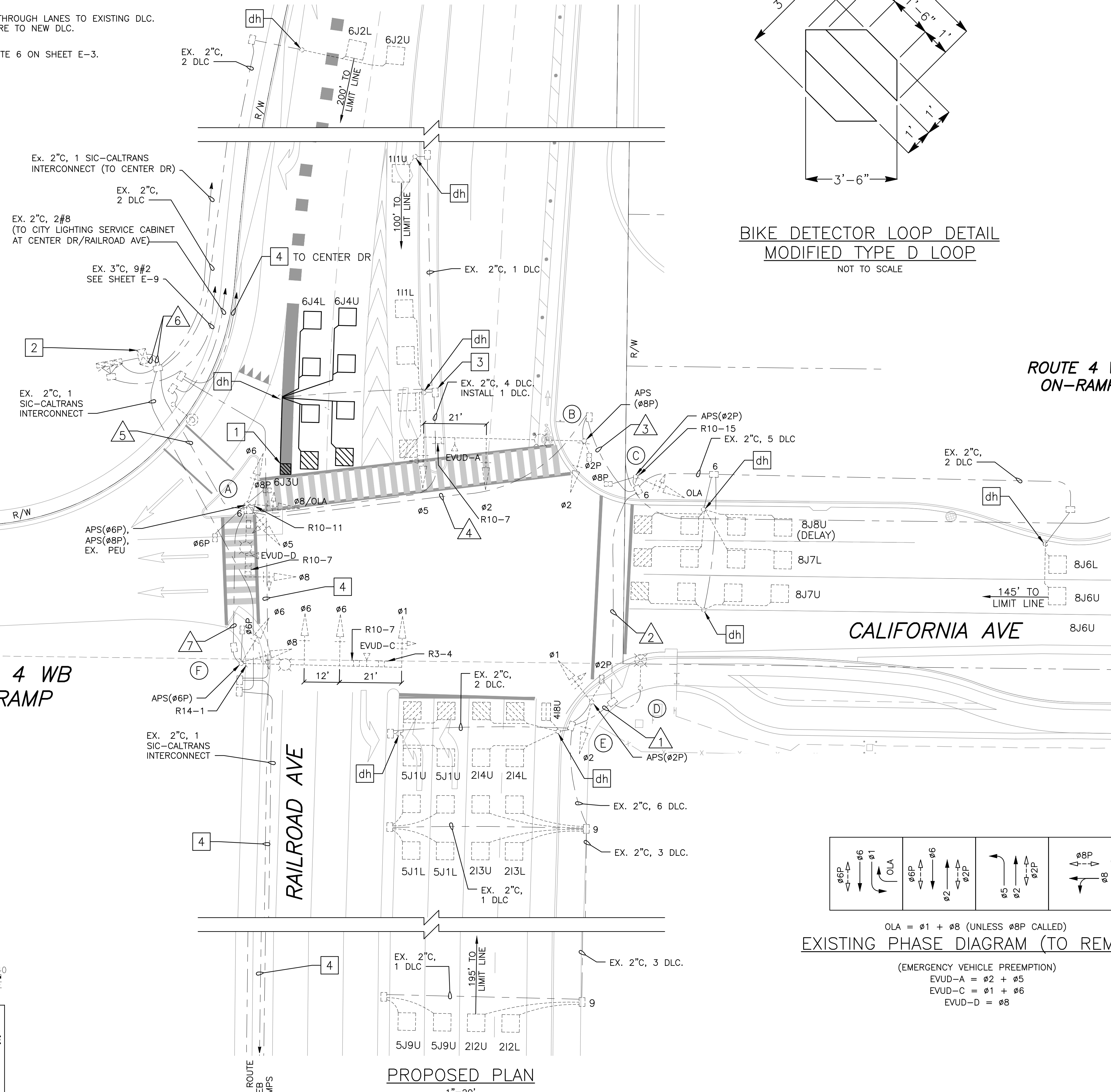
DESIGNED BY
SHANE RUSSELL

FUNCTIONAL SUPERVISOR
04/24/23

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



Underground Service Alert
Call: TOLL FREE
**811/800
227-2600**
TWO WORKING DAYS BEFORE YOU DIG



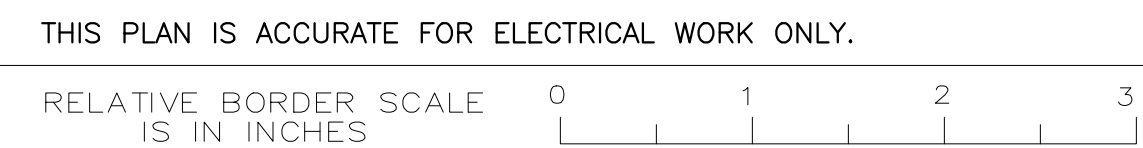
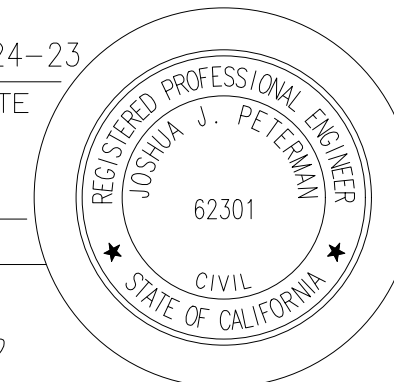
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	70	79

REGISTERED CIVIL ENGINEER
DATE: 04-24-23
PLANS APPROVAL DATE

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WALNUT CREEK, CA 94596

CITY OF PITTSBURG
65 CIVIC AVENUE
PITTSBURG, CA 94565



**RAILROAD AVE & CALIFORNIA AVE
TRAFFIC SIGNAL MODIFICATION PLAN
E-5**

AWG OR CABLE	CONDUCTOR SCHEDULE							
	CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS						
		RUN NUMBERS						
	1	2	3	4	5	6	7	
NO. 14	Ø1	3	3	3	3	6	6	3
	Ø2	3	3	3	3	3	3	
	Ø5				3	3	3	
	Ø6					3	3	3
	Ø8+OLA			5	5	8	8	3
	Ø2P	2	2	2	2	2	2	
	Ø6P					2	2	2
	Ø8P			2	2	2	2	
	APS (Ø2P)	1	1	1	1	1	1	
	APS (Ø6P)					1	1	1
	APS (Ø8P)				1	1	1	
	APS COMMON	1	1	1	1	2	2	1
	PHOTOELECTRIC UNIT (120 V)					3		
	IISNS					2		
SPARES				3	6	6	3	
TOTAL NO. 14	10	10	17	24	45	40	16	
NO. 8	LUMINAIRES (240 V)		2	2	4		2	
	SIGNAL COMMON	1	1	1	1	2	2	
	TOTAL NO. 8	1	3	3	3	6	2	
DLC	Ø1 (111U, 111L)					2	2	
	Ø2 (212U, 212L, 213U, 213L, 214U, 214L)	6	6	6	6	6	6	
	Ø4 (418U)	1	1	1	1	1	1	
	Ø5 (5J1U, 5J1L, 5J9U)	3	3	3	3	3	3	
	Ø6 (6J2U, (6J3U), 6J2L, 6J4U, 6J4L)					2 (1)	4(1)	
	Ø8 (8J6U, 8J6L, 8J7U, 8J7L, 8J8U)			5	5	5	5	
TOTAL DETECTOR CABLES	10	10	15	15	19(1)	21(1)	-	
EMERGENCY VEHICLE UNIT CABLE (EVUC)	EVUC-A				1	1	1	
	EVUC-C					1	1	
	EVUC-D					1	1	
TOTAL EVUC	-	-	-	1	3	3	1	
CONDUIT SIZE	3"	3"	3"	3"	2-3"	2-3"	2"	
PERCENT FILL	14%	15%	22%	25%	20%	19%	17%	

NOTES:
 ALL CONDUCTORS AND CABLES ARE EXISTING, UNLESS OTHERWISE NOTED.
 (N) = NEW

POLE AND EQUIPMENT SCHEDULE										
	STANDARD			VEH SIG MTG		PED SIGNAL MTG	APS		HPS LUM WATTAGE	SPECIAL REQUIREMENTS
	TYPE	SIG MA	LUM ARM	MAST	POLE		Ø	ARROW		
(A)	19A-3-80	25'	15'	MAS-4C	SV-3-TA	SP-2-T	6	←→	131	-
(B)	29A-5-80	55'	15'	MAS MAS	SV-1-T	SP-1-T	8	←	131	-
(C)	1-B	-	-	-	TV-1-T	SP-1-T	2	→	-	-
(D)	30	-	15'	-	-	-	-	-	131	-
(E)	1-B	-	-	-	TV-2-T	SP-1-T	2	→	-	-
(F)	29A-5-80	55'	15'	MAS MAT MAT	SV-2-TC	SP-1-T	6	→	131	-

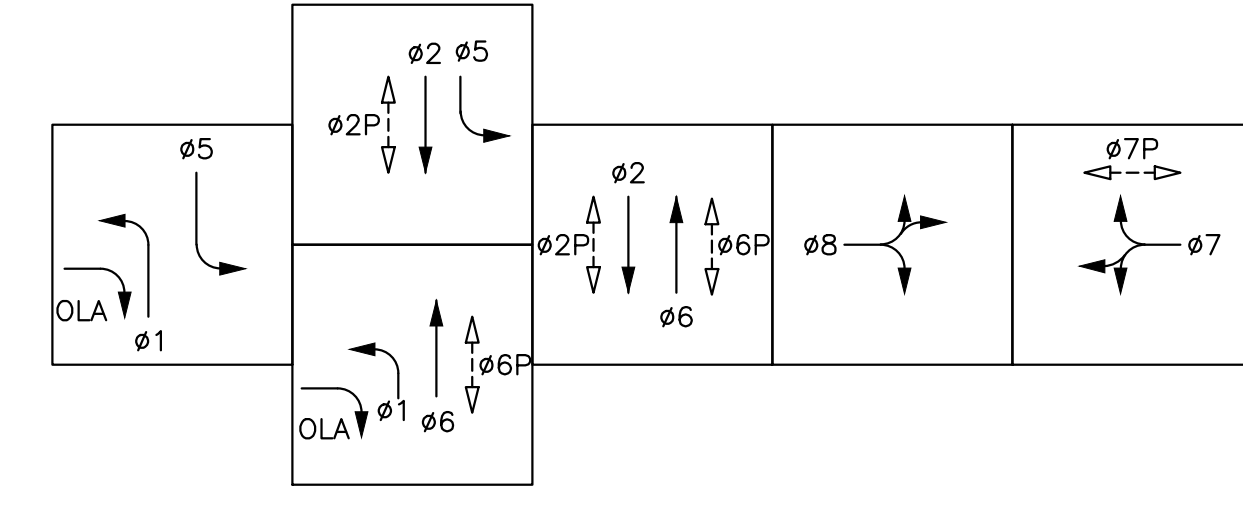
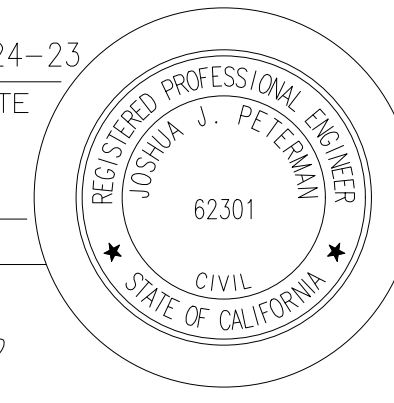
NOTES:
 ALL EQUIPMENT IS EXISTING, UNLESS OTHERWISE NOTED.

LEGEND (THIS SHEET ONLY):

- 1 INSTALL 3.5' X 3.5' D LOOP PER DETAIL ON THIS SHEET. SPLICE TO EXISTING DLC (FOR ABANDONED RIGHT LANE) IN EXIST. PULL BOX.
- 2 EXISTING SIGNAL INTERCONNECT SYSTEM EQUIPMENT SHOWN FOR REFERENCE ONLY. NOT PART OF SIGNAL MODIFICATION BID ITEM.

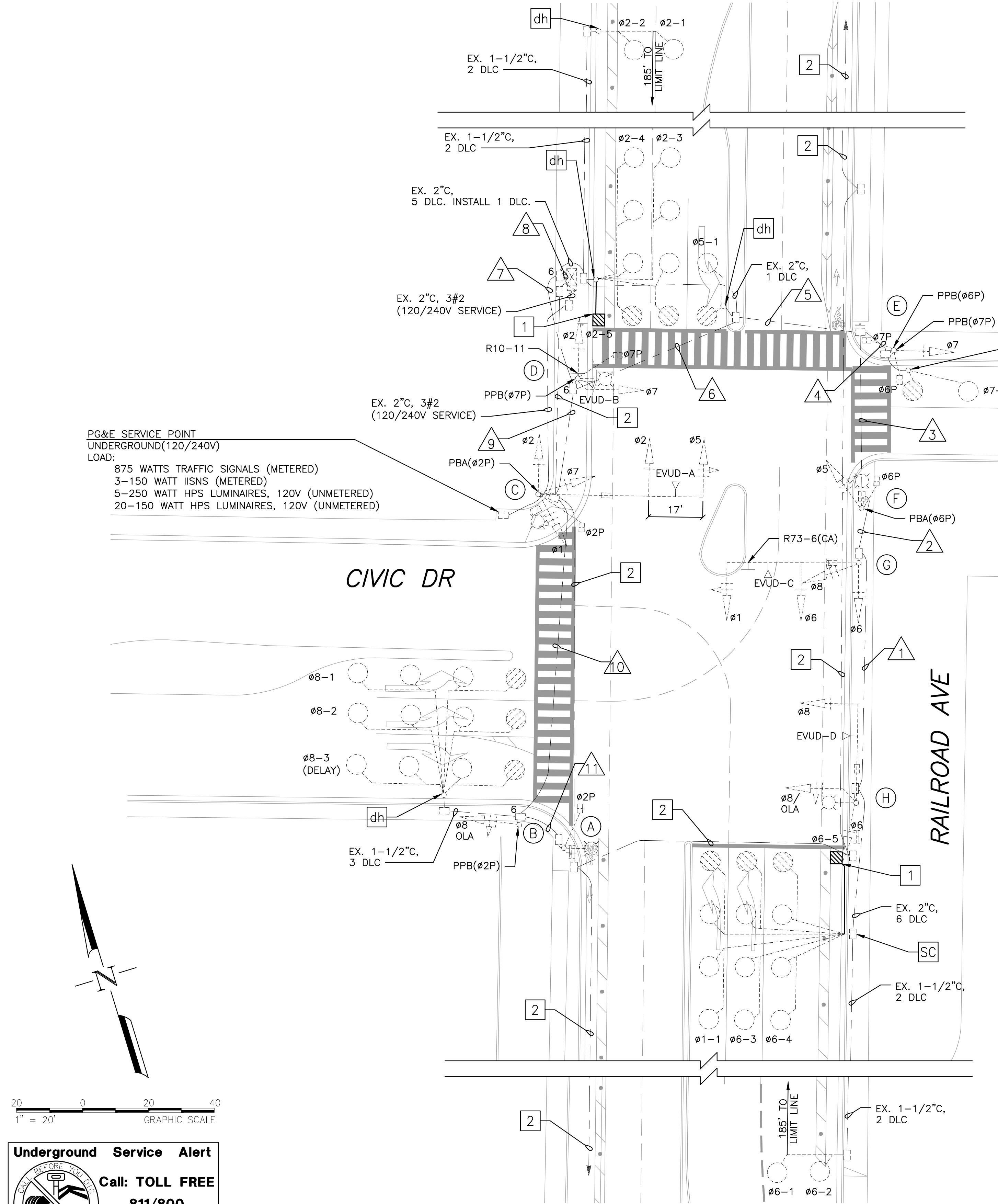
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	72	79

REGISTERED CIVIL ENGINEER: *John J. Peterman*
 DATE: 04-24-23
 PLANS APPROVAL DATE: _____
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.
 FEHR & PEERS
 100 PRINGLE AVENUE, SUITE 600
 WALNUT CREEK, CA 94596
 CITY OF PITTSBURG
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 PITTSBURG, CA 94565

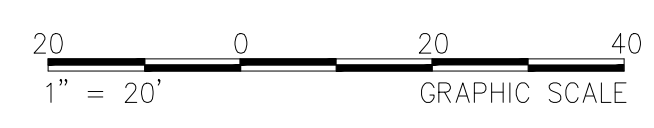


EXISTING PHASE DIAGRAM (TO REMAIN)
(EMERGENCY VEHICLE PREEMPTION)

- EVUD-A = $\phi 2 + \phi 5$
- EVUD-B = $\phi 7$
- EVUD-C = $\phi 1 + \phi 6$
- EVUD-D = $\phi 8 + OLA$



PG&E SERVICE POINT UNDERGROUND(120/240V)
LOAD:
875 WATT TRAFFIC SIGNALS (METERED)
3-150 WATT IISNS (METERED)
5-250 WATT HPS LUMINAIRES, 120V (UNMETERED)
20-150 WATT HPS LUMINAIRES, 120V (UNMETERED)

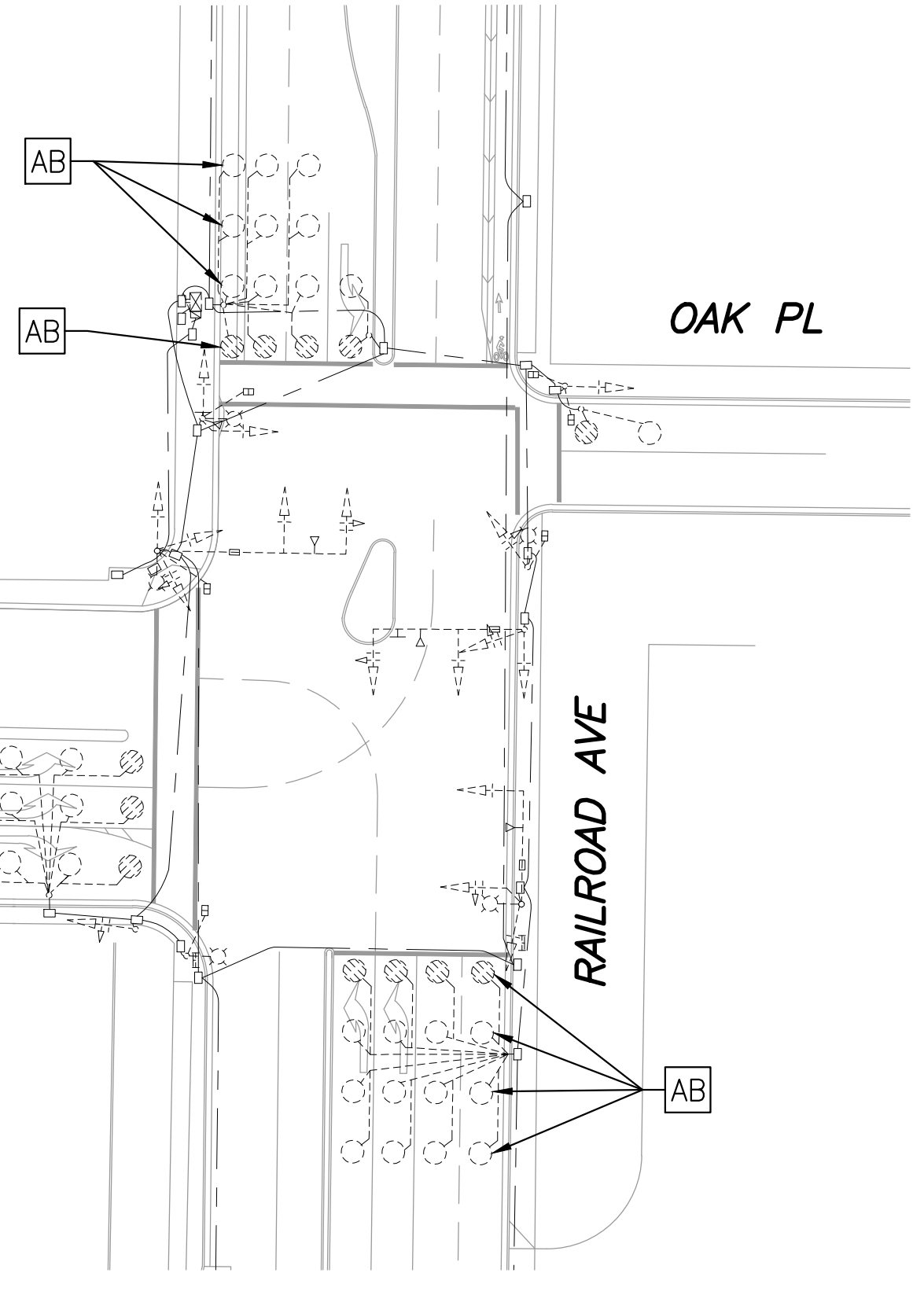


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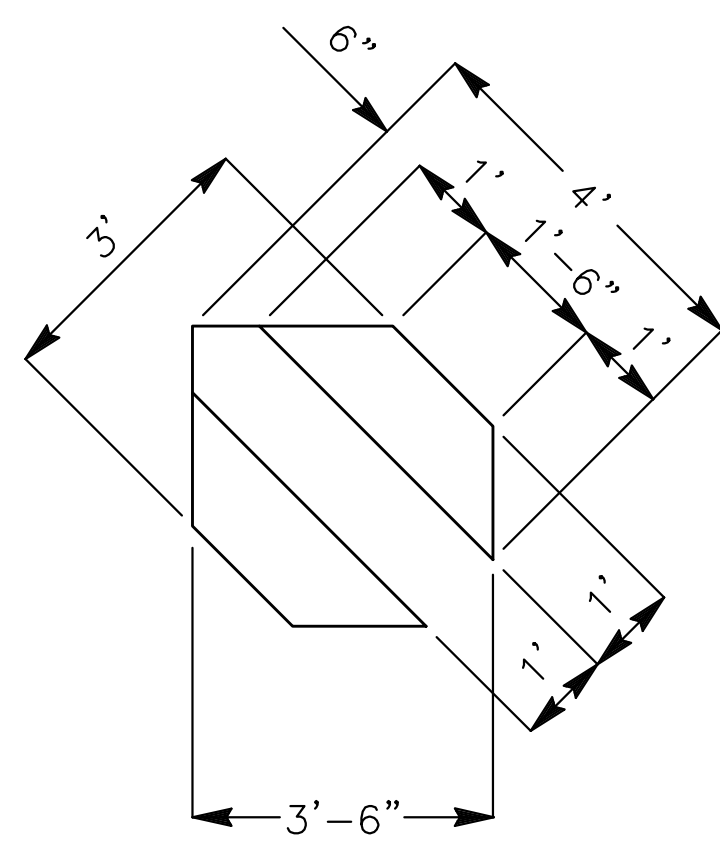
OAK PL

CIVIC DR

RAILROAD AVE

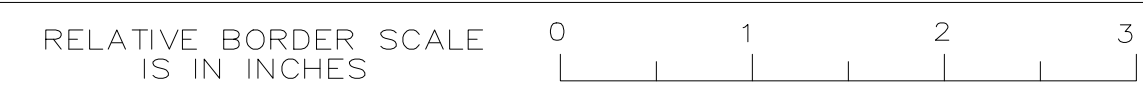


EXIST TRAFFIC SIGNAL
1"=40'

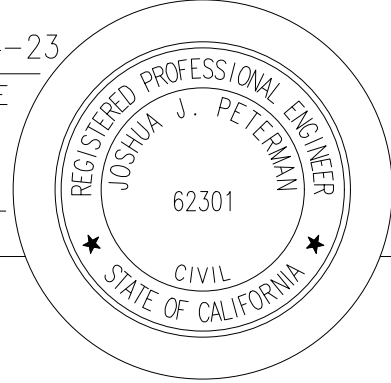


BIKE DETECTOR LOOP DETAIL
MODIFIED D LOOP
NOT TO SCALE

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.



RAILROAD AVE & CIVIC AVE/OAK PL TRAFFIC SIGNAL MODIFICATION PLAN E-7



AWG OR CABLE	CONDUCTOR SCHEDULE											
	CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS										
		RUN NUMBERS										
	1	2	3	4	5	6	7	8	9	10	11	
NO. 14	Ø1		3	3		3	3	6	6	3		
	Ø2							3	3	3		
	Ø5			3		3	3	6	6	3		
	Ø6	3	3	3		3	3	3	3			
	Ø7				3	3	3	6	6	3		
	Ø8	3	3	3		3	3	6	6	3	3	
	OLA	2	2	2		2	2			2	2	
	Ø2P							2	2	2	2	2
	Ø6P			2	2	2	2	2	2			
	Ø7P				2	2	2	2	2			
	PPB (Ø2P)							1	1	1	1	
	PPB (Ø6P)			1	1	1	1	1	1			
	PPB (Ø7P)				1	1	1	1	1			
	PPB COMMON	1	1	1	1	1	1	1	1	1	1	1
IISNS (120 V)	2	2	2		2	2	4	4	2			
SPARES	3	3	3	3	3	3	6	6	3	3	3	
TOTAL NO. 14	14	17	23	13	29	29	50	50	26	12	6	
NO. 8	LUMINAIRES (240 V)	2	2	2		2	2	4	4	2	2	2
	SIGNAL COMMON	1	1	1	1	1	1	2	2	1	1	1
	TOTAL NO. 8	3	3	3	1	3	3	6	6	3	3	3
DLC	Ø1-1	1	1	1		1	1	1	1			
	Ø2-1, Ø2-2								2			
	Ø2-3, Ø2-4, Ø2-5								3			
	Ø5-1						1	1	1			
	Ø6-1, Ø6-2	2	2	2		2	2	2	2			
	Ø6-3, Ø6-4, Ø6-5	3	3	3		3	3	3	3			
	Ø7-1				1	1	1	1	1			
	Ø8-1, Ø8-2, Ø8-3							3	3	3	3	
TOTAL DLC	6	6	6	1	7	8	11	16	3	3	-	
EMERGENCY VEHICLE UNIT CABLE (EVUC)	EVUC-A						1	1	1			
	EVUC-B						1	1				
	EVUC-C		1	1		1	1	1	1			
	EVUC-D	1	1	1		1	1	1	1			
TOTAL EVUC	1	2	2	-	2	2	4	4	1	-	-	
CONDUIT SIZE	3"	3"	3"	2"	3"	3"	3-3"	3-3"	3"	3"	2"	
PERCENT FILL	13%	15%	14%	12%	20%	21%	17%	19%	14%	9%	9%	

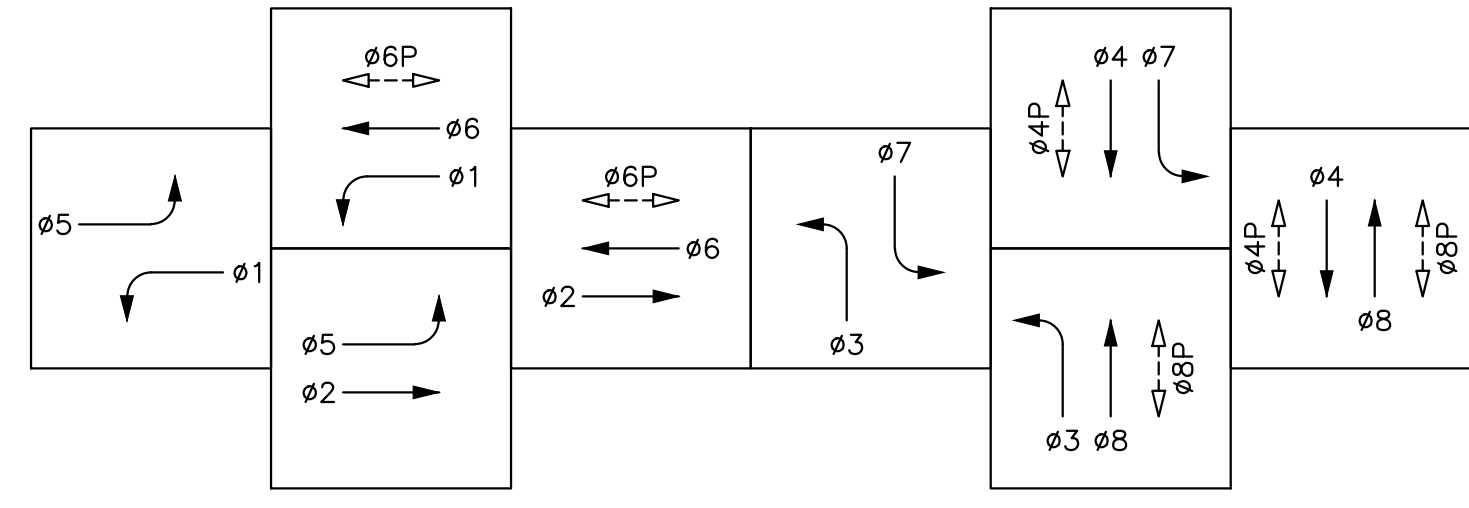
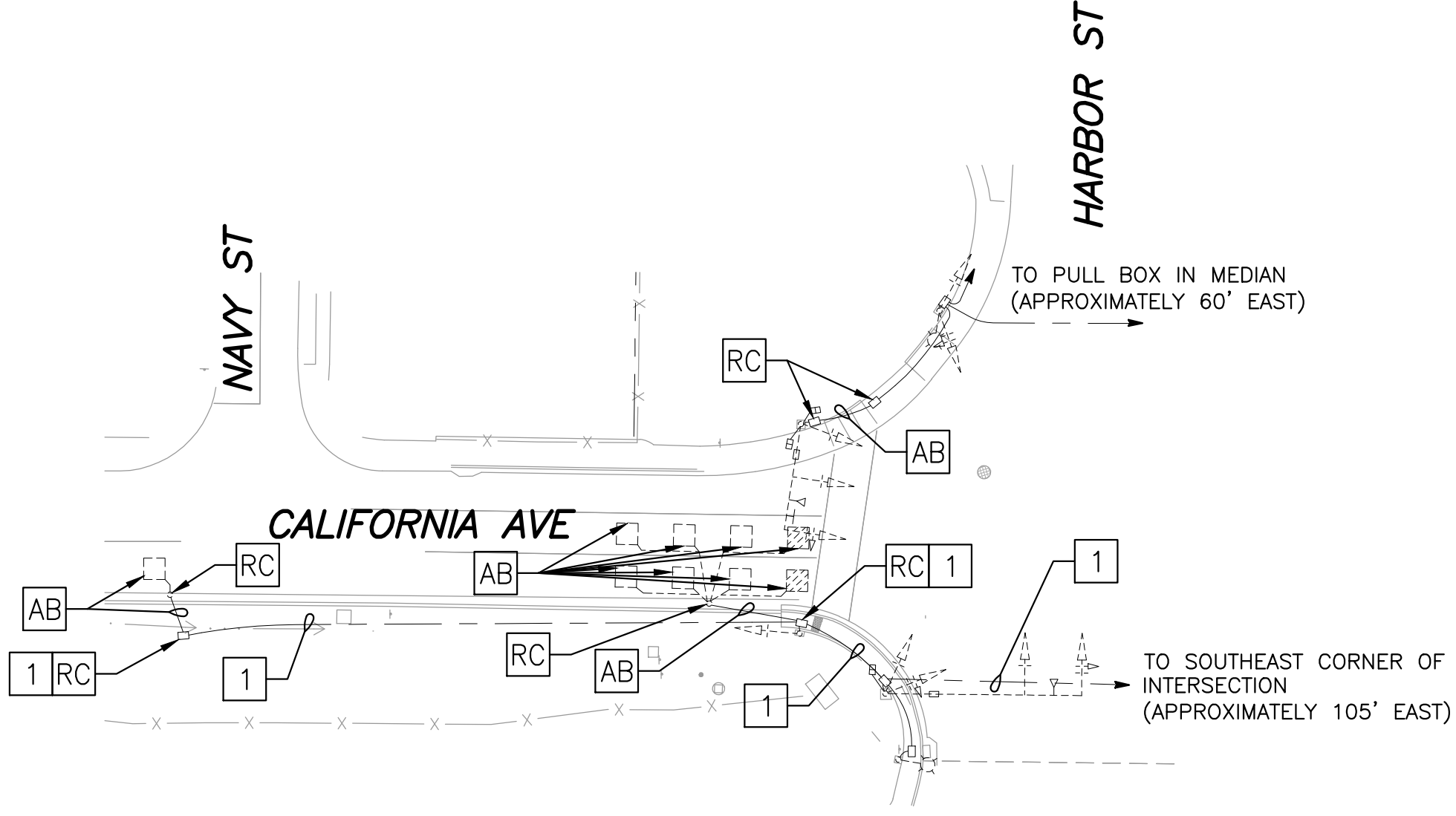
NOTES:
 ALL CONDUCTORS AND CABLES ARE EXISTING.

POLE AND EQUIPMENT SCHEDULE										
	STANDARD			VEH SIG MTG		PED SIGNAL MTG	APS		HPS LUM WATTAGE	SPECIAL REQUIREMENTS
	TYPE	SIG MA	LUM ARM	MAST	POLE		Ø	ARROW		
(A)	15	-	12'	-	-	SP-1-UM	-		109	-
(B)	1-B	-	-	-	TV-1-T	-	2	→	-	-
(C)	29-5-80	50'	15'	MAT MAT	SV-3-UM	SP-1-UM	2	←	250	-
(D)	15	-	12'	-	SV-1-UM SV-1-UM	SP-1-T	7	←	250	-
(E)	1-B	-	-	-	TV-1-UM	SP-2-T	6 7	→	-	-
(F)	15	-	12'	-	SV-1-UM	SP-1-UM	6	→	250	-
(G)	27-4-80	40'	-	MAS MAS	SV-2-UM	-	-	-	-	-
(H)	19-4-80	30'	12'	MAS	SV-2-UM	SP-2-T	-	-	250	-

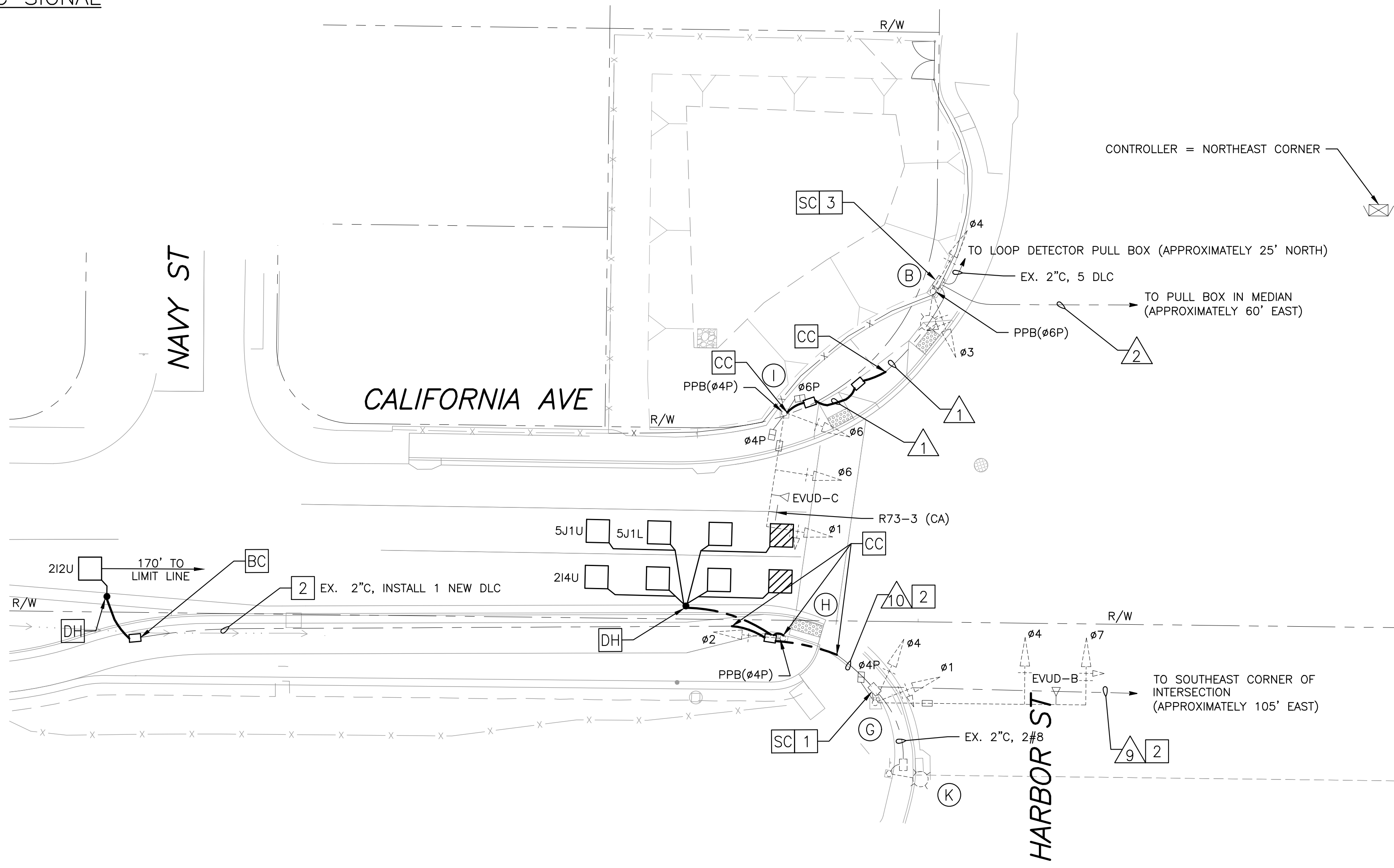
NOTES:
 ALL EQUIPMENT IS EXISTING, UNLESS OTHERWISE NOTED.
 (N) = NEW



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EXISTING PHASE DIAGRAM (TO REMAIN)
 (EMERGENCY VEHICLE PREEMPTION)
 EVUD-A = $\phi 2 + \phi 5$
 EVUD-B = $\phi 4 + \phi 7$
 EVUD-C = $\phi 6 + \phi 1$
 EVUD-D = $\phi 8 + \phi 3$



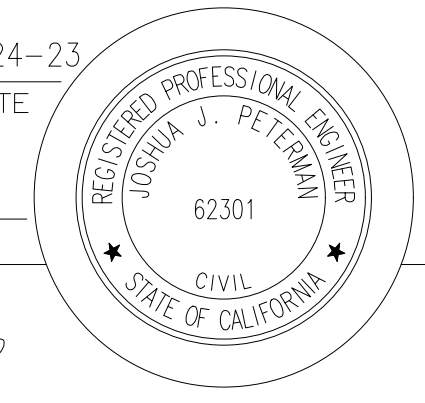
PROPOSED PLAN
 1"=20'

LEGEND (THIS SHEET ONLY):

- 1 EXISTING $\phi 2$ AND $\phi 5$ DLC TO BE REMOVED FROM ALL EXISTING CONDUIT AND DISCONNECTED FROM THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION (APPROXIMATELY 2350 LF OF DLC). REMOVED DLC TO BECOME THE PROPERTY OF THE CONTRACTOR. PROTECT IN PLACE EXISTING CONDUIT AND ANY OTHER EXISTING CONDUCTORS OR CABLES.
- 2 INSTALL NEW DLC IN EXISTING CONDUIT AND CONNECT TO THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION (APPROXIMATELY 2350 LF OF DLC).
- 3 DISCONNECT EVUC-C FROM EVUD-C, PULL BACK TO THIS PULL BOX. INSTALL IN NEW PULL BOXES AND CONDUIT, RECONNECT TO EVUD-C.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	74	79

REGISTERED CIVIL ENGINEER: *Josh Peterman* DATE: 04-24-23
 PLANS APPROVAL DATE: _____
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



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 CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565

AWG OR CABLE	CONDUCTOR SCHEDULE				
	CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS			
		RUN NUMBERS			
		1	2	9	10
NO. 14	$\phi 1$	(3)	3	3	
	$\phi 2$			3	(3)
	$\phi 3$		3		
	$\phi 4$		3	3	
	$\phi 6$	(3)	3		
	$\phi 7$			3	
	$\phi 4P$	(2)	2	2	
	$\phi 6P$	(2)	2		
	PPB ($\phi 4P$)	(1)	1	1	(1)
	PPB ($\phi 6P$)		1		
PPB COMMON	(1)	1	1		
IISNS (120 V)	(3)	3	3		
SPARES	(3)	3	3	(3)	
TOTAL NO. 14		(18)	25	22	(7)
NO. 8	LUMINAIRES (240 V)		2	2	
	SIGNAL COMMON	(1)	1	1	(1)
	TOTAL NO. 8		(1)	3	3
DLC	212U			(1)	(1)
	214U			(1)	(1)
	416U		1		
	416L		1		
	417L		1		
	418U		1		
	418L		1		
	5J1U			(1)	(1)
5J1L			(1)	(1)	
TOTAL DLC		-	5	(4)	(4)
EMERGENCY VEHICLE UNIT CABLE (EVUC)	EVUC-B			1	
	EVUC-C	1	1		
TOTAL EVUC		1	1	1	-
CONDUIT SIZE		3"	3"	3"	2"

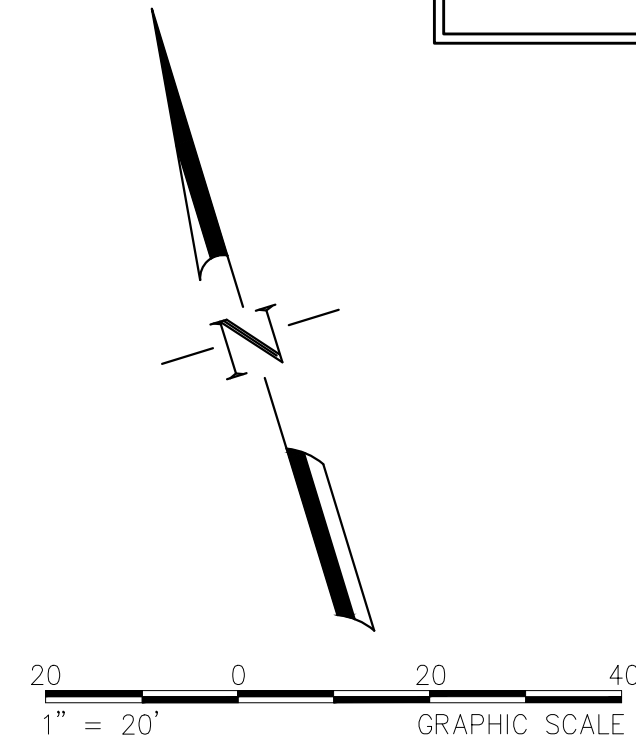
NOTES:
 ALL CONDUCTORS AND CABLES ARE EXISTING, UNLESS OTHERWISE NOTED.
 (N) = NEW

**CALIFORNIA AVE & HARBOR ST
 TRAFFIC SIGNAL MODIFICATION PLAN
 E-9**

GENERAL NOTES (SHEETS E9-E13):

1. ALL NEW PATH LIGHTING PULL BOXES SHALL BE NO. 5 AND LABELED "PATH LIGHTING", UNLESS NOTED OTHERWISE ON THE PLANS.
2. ALL NEW LIGHTING CONDUIT SHALL BE 2" UNLESS NOTED OTHERWISE ON THE PLANS.


NOTE: CALIFORNIA AVENUE TRAIL LIGHTING PLANS (SHEETS E-10 AND E-11) ARE ADDITIVE BID A.



PROJECT NOTES (THIS SHEET ONLY):

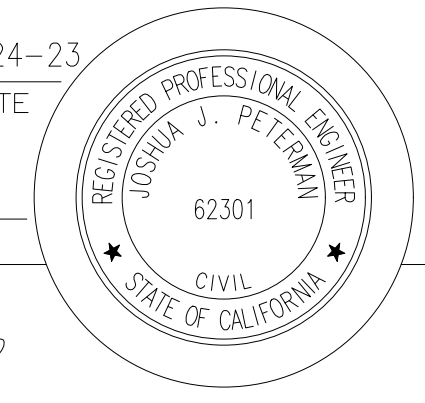
1. INSTALL 48W CREE LUMINAIRE WITH PEU ON TRAIL LIGHT POLE. INSTALL 10A INLINE FUSE AT HANDHOLE AT BASE OF POLE. SEE 'DETAIL A' ON SHEET E-13.
2. INSTALL NEW 2" C, 4#8 (240V LTG CKT C-1 & C-2), 2#8 (120V IRR), 1#6G
3. INSTALL NEW 2" C, 2#8 (240V TRAIL LIGHTING CKT C-1), 1#8 G.
4. FURNISH/INSTALL NEW 100A, 120/240V TYPE III-A SERVICE PEDESTAL, TESCO 26-100 (UM) OR SIMILAR. PG&E TO COMPLETE TERMINATION OF CONDUCTORS FROM SERVICE POINT. SEE DETAIL, SHEET E-11.
5. APPLICANT TO INSTALL 3" CONDUIT; PG&E TO INSTALL CONDUCTORS TO NEW PEDESTAL.
6. FURNISH/INSTALL NEW PG&E NO. 2 BOX.
7. EXISTING OVERHEAD PG&E SERVICE POINT ON EXISTING WOOD POLE. FURNISH/INSTALL NEW 2" RISER TO NEW NO. 2 PG&E BOX. PG&E TO INSTALL CONDUCTORS.
8. INSTALL 2" C WITH PULL ROPE.
9. INSTALL NEW 2" C, 4#8 (240V LTG CKT C-1 & C-2), 2#8 (120V IRR), 1#6G. INSTALL PULL ROPE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	75	79


 REGISTERED CIVIL ENGINEER 04-24-23
 DATE

PLANS APPROVAL DATE

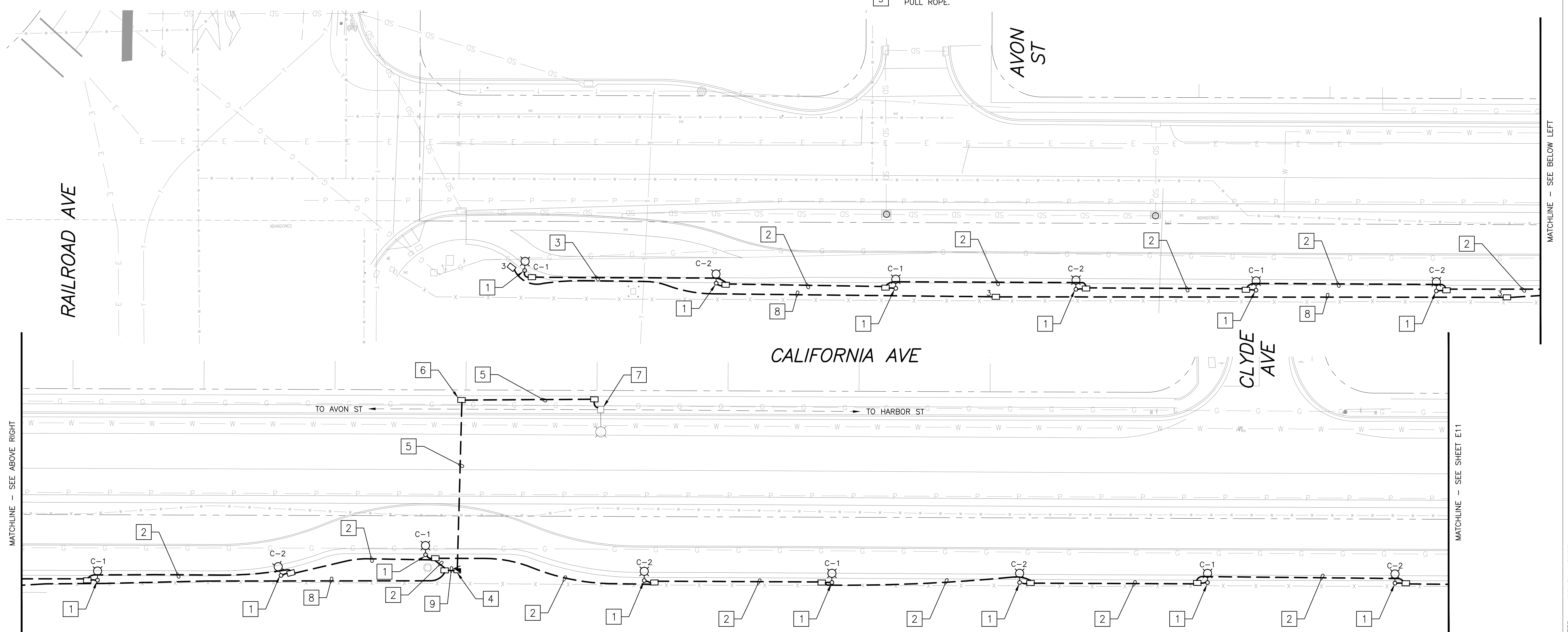
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CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 FUNCTIONAL SUPERVISOR 04/24/23
 DESIGNED BY SHANE RUSSELL
 CHECKED BY JOSH PETERMAN
 REVISED BY
 DATE
 04/24/2023
 04/24/2023

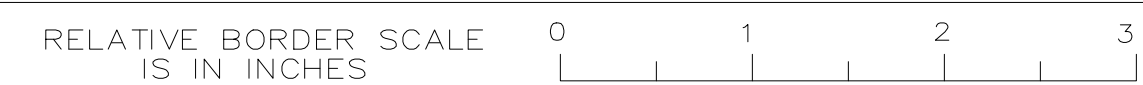


Underground Service Alert


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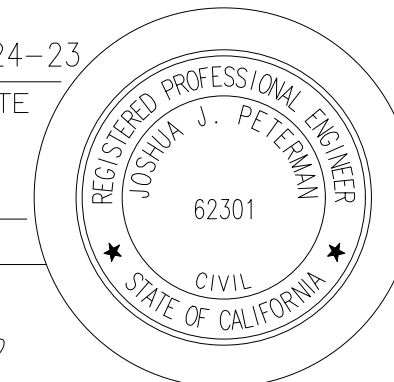
CALIFORNIA AVE TRAIL LIGHTING PLAN
 1"=20'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.



CALIFORNIA AVE TRAIL LIGHTING PLAN E-10

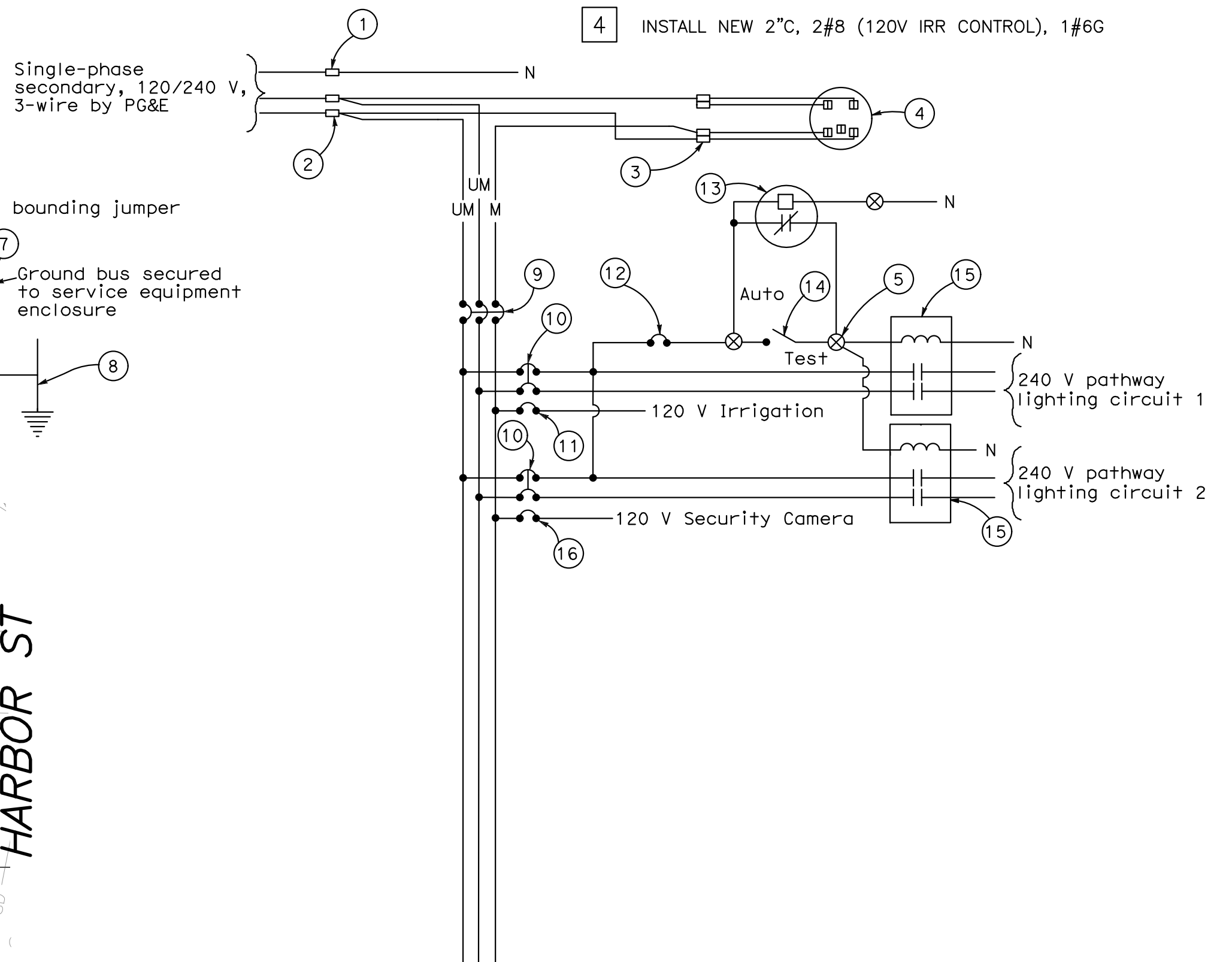
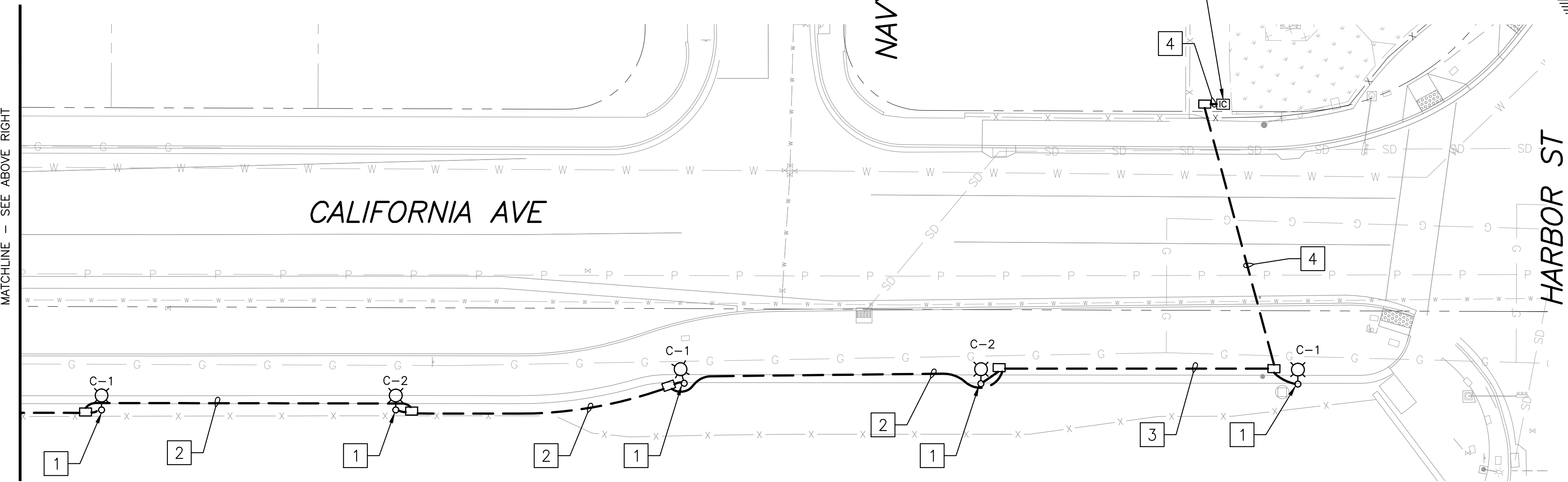
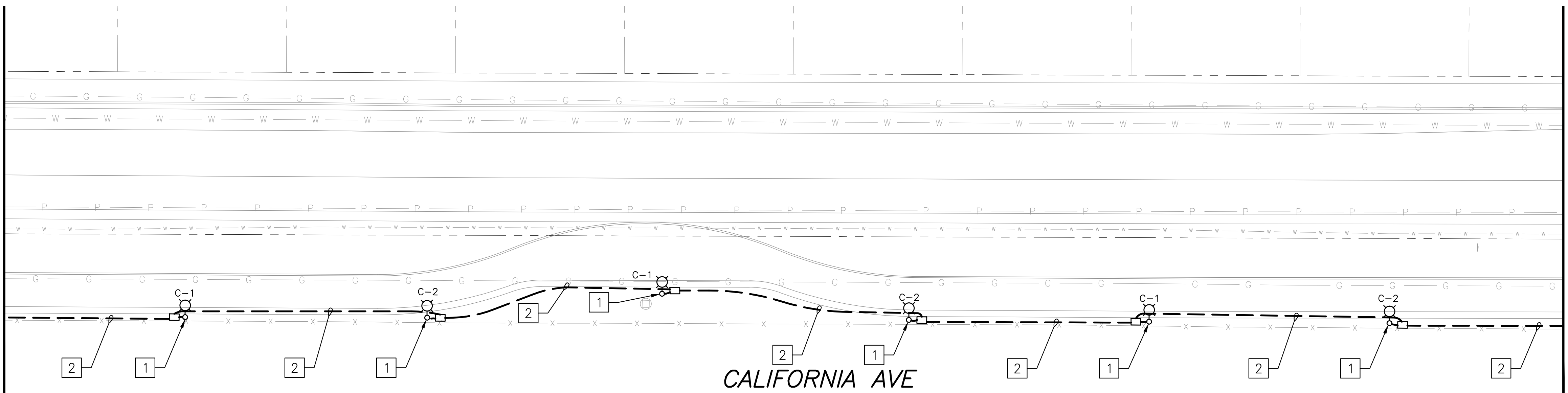
LAST REVISION 04-24-23
 DATE PLOTTED => 20-Dec-2022
 TIME PLOTTED => 22:56



PROJECT NOTES (THIS SHEET ONLY):

- 1 INSTALL 48W CREE LUMINAIRE WITH PEU ON TRAIL LIGHT POLE. INSTALL 10A INLINE FUSE AT HANDHOLE AT BASE OF POLE. SEE 'DETAIL A' ON SHEET E-13.
- 2 INSTALL NEW 2" C, 4#8 (240V LTG CKT C-1&C-2), 2#8 (120V IRR), 1#6G
- 3 INSTALL NEW 2" C, 2#8 (240V LTG CKT C-1), 2#8 (120V IRR), 1#6G
- 4 INSTALL NEW 2" C, 2#8 (120V IRR CONTROL), 1#6G

NOTE: CALIFORNIA AVENUE TRAIL LIGHTING PLANS (SHEETS E-10 AND E-11) ARE ADDITIVE BID A.

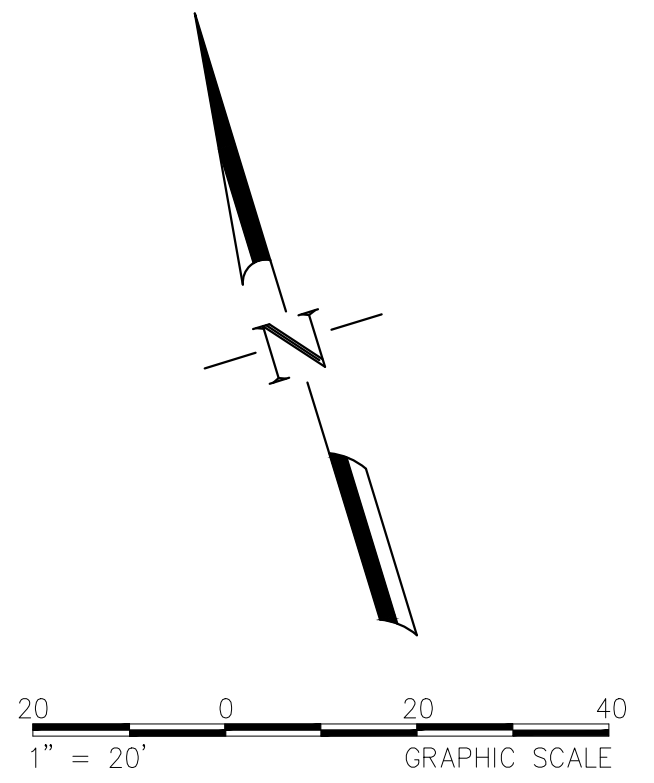


120/240 V SERVICE WIRING DIAGRAM

- Notes:**
1. Unless otherwise indicated on the plans, service equipment items shall be provided for each service equipment enclosure as shown.
 2. Connect to remote test switch mounted on lighting standards, sign post, or structure when required.
 3. Items ① and ⑥ shall be isolated from the service equipment enclosure.
 4. Type V photoelectric control shall be used unless otherwise indicated on the plans.
 5. Item ⑭ shall be ganged operated by CB.
 6. The plan shows the approximate location of devices within the enclosure. Components may be rearranged, however, the "working" clearances within the service equipment enclosure shall be maintained.

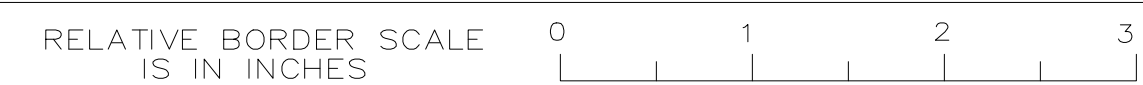
TYPE III-A SERVICE (120/240 V) EQUIPMENT LEGEND					
ITEM No.	COMPONENT	NAME PLATE DESCRIPTION	ITEM No.	COMPONENT	NAME PLATE DESCRIPTION
①	Neutral lug		⑩	15 A, 240 V, 2P, CB	Lighting
②	Landing lug		⑪	15 A, 120 V, 1P, CB	Irrigation
③	Test bypass facility		⑫	15 A, 120 V, 1P, CB	Lighting Control
④	Meter socket and support		⑬	Photoelectric unit (Note 4)	PEU
⑤	Terminal blocks		⑭	15 A, 1P, Test switch	Lighting Test Switch
⑥	Neutral bus		⑮	60 A, 2PNO Contactor	Lighting
⑦	Grounding bus		⑯	15 A, 120 V, 1P, CB	Security Camera
⑧	Grounding electrode				
⑨	100 A, 240 V, 3P, CB	Main Breaker			

TRAIL LIGHTING PLAN
 1"=20'



Underground Service Alert
 Call: TOLL FREE
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 227-2600
 TWO WORKING DAYS BEFORE YOU DIG

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.



PROJECT NOTES (THIS SHEET ONLY):

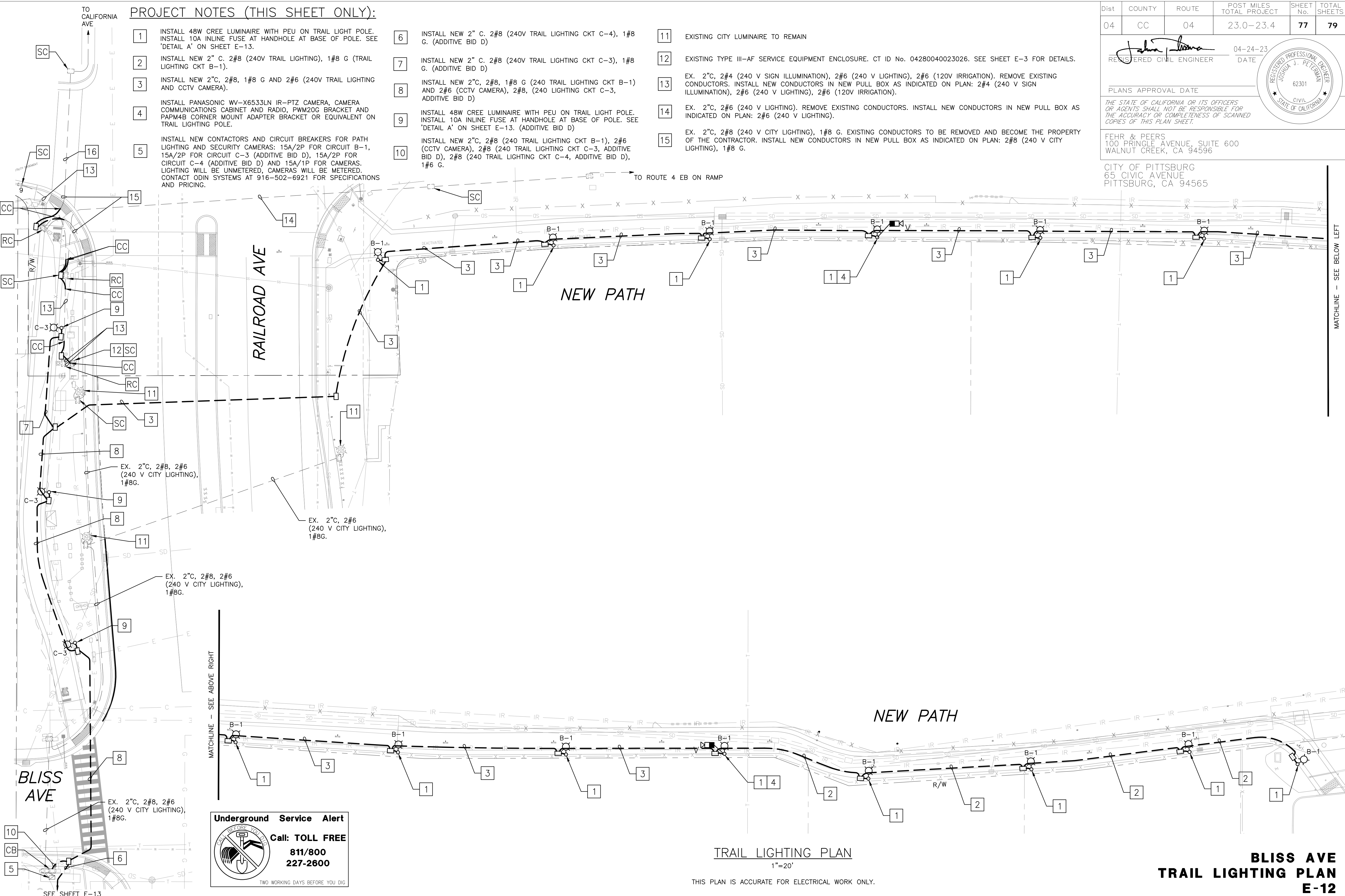
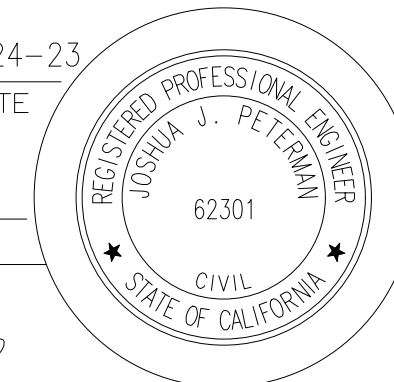
- 1 INSTALL 48W CREE LUMINAIRE WITH PEU ON TRAIL LIGHT POLE. INSTALL 10A INLINE FUSE AT HANDHOLE AT BASE OF POLE. SEE 'DETAIL A' ON SHEET E-13.
- 2 INSTALL NEW 2" C. 2#8 (240V TRAIL LIGHTING), 1#8 G (TRAIL LIGHTING CKT B-1).
- 3 INSTALL NEW 2" C, 2#8, 1#8 G AND 2#6 (240V TRAIL LIGHTING AND CCTV CAMERA).
- 4 INSTALL PANASONIC WV-X6533LN IR-PTZ CAMERA, CAMERA COMMUNICATIONS CABINET AND RADIO, PWM20G BRACKET AND P4PM4B CORNER MOUNT ADAPTER BRACKET OR EQUIVALENT ON TRAIL LIGHTING POLE.
- 5 INSTALL NEW CONTACTORS AND CIRCUIT BREAKERS FOR PATH LIGHTING AND SECURITY CAMERAS: 15A/2P FOR CIRCUIT B-1, 15A/2P FOR CIRCUIT C-3 (ADDITIVE BID D), 15A/2P FOR CIRCUIT C-4 (ADDITIVE BID D) AND 15A/1P FOR CAMERAS. LIGHTING WILL BE UNMETERED, CAMERAS WILL BE METERED. CONTACT ODIN SYSTEMS AT 916-502-6921 FOR SPECIFICATIONS AND PRICING.
- 6 INSTALL NEW 2" C. 2#8 (240V TRAIL LIGHTING CKT C-4), 1#8 G. (ADDITIVE BID D)
- 7 INSTALL NEW 2" C. 2#8 (240V TRAIL LIGHTING CKT C-3), 1#8 G. (ADDITIVE BID D)
- 8 INSTALL NEW 2" C, 2#8, 1#8 G (240 TRAIL LIGHTING CKT B-1) AND 2#6 (CCTV CAMERA), 2#8. (240 LIGHTING CKT C-3, ADDITIVE BID D)
- 9 INSTALL 48W CREE LUMINAIRE WITH PEU ON TRAIL LIGHT POLE. INSTALL 10A INLINE FUSE AT HANDHOLE AT BASE OF POLE. SEE 'DETAIL A' ON SHEET E-13. (ADDITIVE BID D)
- 10 INSTALL NEW 2" C, 2#8 (240 TRAIL LIGHTING CKT B-1), 2#6 (CCTV CAMERA), 2#8 (240 TRAIL LIGHTING CKT C-3, ADDITIVE BID D), 2#8 (240 TRAIL LIGHTING CKT C-4, ADDITIVE BID D), 1#6 G.
- 11 EXISTING CITY LUMINAIRE TO REMAIN
- 12 EXISTING TYPE III-AF SERVICE EQUIPMENT ENCLOSURE. CT ID No. 04280040023026. SEE SHEET E-3 FOR DETAILS.
- 13 EX. 2" C, 2#4 (240 V SIGN ILLUMINATION), 2#6 (240 V LIGHTING), 2#6 (120V IRRIGATION). REMOVE EXISTING CONDUCTORS. INSTALL NEW CONDUCTORS IN NEW PULL BOX AS INDICATED ON PLAN: 2#4 (240 V SIGN ILLUMINATION), 2#6 (240 V LIGHTING), 2#6 (120V IRRIGATION).
- 14 EX. 2" C, 2#6 (240 V LIGHTING). REMOVE EXISTING CONDUCTORS. INSTALL NEW CONDUCTORS IN NEW PULL BOX AS INDICATED ON PLAN: 2#6 (240 V LIGHTING).
- 15 EX. 2" C, 2#8 (240 V CITY LIGHTING), 1#8 G. EXISTING CONDUCTORS TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR. INSTALL NEW CONDUCTORS IN NEW PULL BOX AS INDICATED ON PLAN: 2#8 (240 V CITY LIGHTING), 1#8 G.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	77	79

REGISTERED CIVIL ENGINEER: *John J. Peterman* DATE: 04-24-23
 PLANS APPROVAL DATE: _____
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

FEHR & PEERS
 100 PRINGLE AVENUE, SUITE 600
 WALNUT CREEK, CA 94596

CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565



Underground Service Alert
 Call: TOLL FREE 811/800 227-2600
 TWO WORKING DAYS BEFORE YOU DIG

TRAIL LIGHTING PLAN
 1"=20'
 THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

BLISS AVE TRAIL LIGHTING PLAN E-12


DATE PLOTTED => 20-Dec-2022 TIME PLOTTED => 22:57

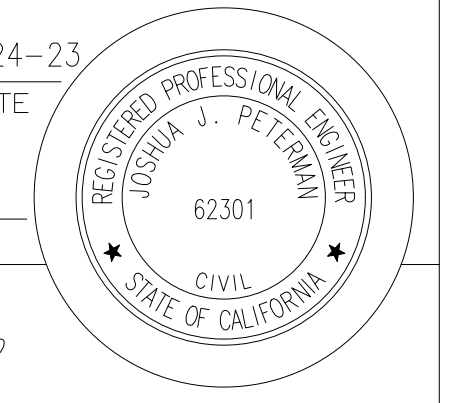
PROJECT NOTES (THIS SHEET ONLY):

- 1 INSTALL 48W CREE LUMINAIRE WITH PEU ON TRAIL LIGHT POLE. INSTALL 10A INLINE FUSE AT HANDHOLE AT BASE OF POLE. SEE 'DETAIL A' ON THIS SHEET.
- 2 INSTALL NEW 2"C, 2#8 (240V TRAIL LIGHTING CKT C-5), 1#8 G.
- 3 INSTALL NEW 2"C, 2#8 (240V TRAIL LIGHTING CKT C-4), 1#8 G.

NOTE: RAILROAD AVENUE TRAIL LIGHTING PLANS (SHEETS E-13 AND E-14) ARE ADDITIVE BID D.

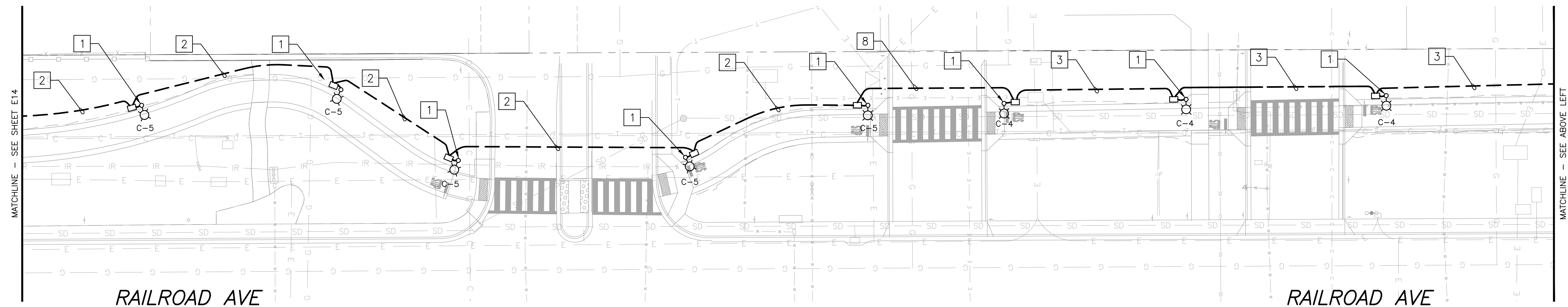
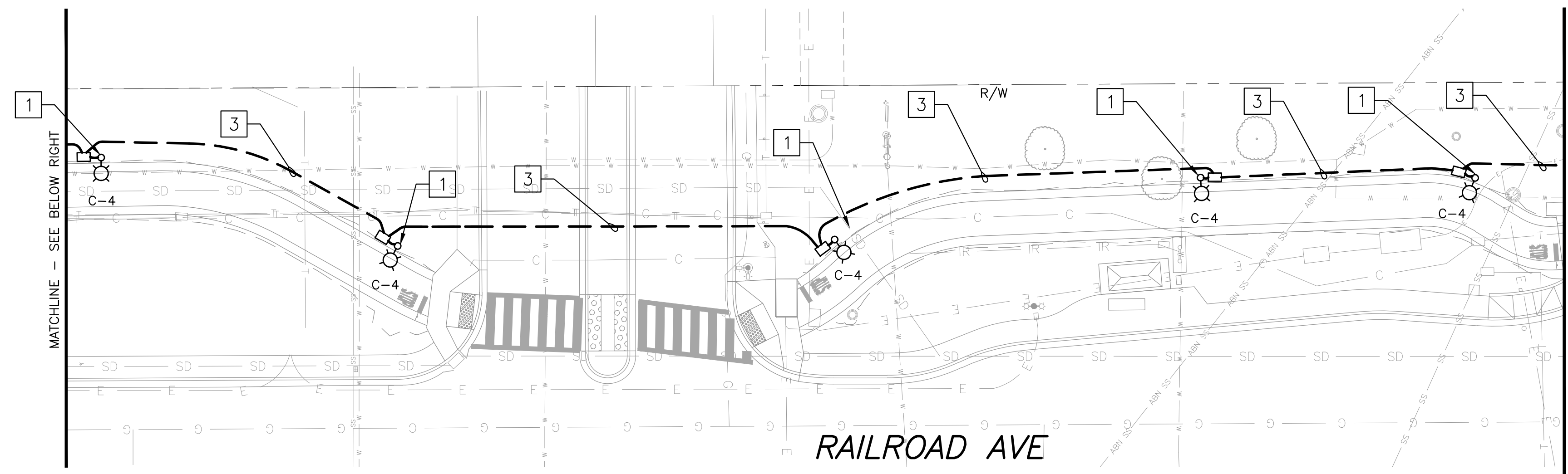
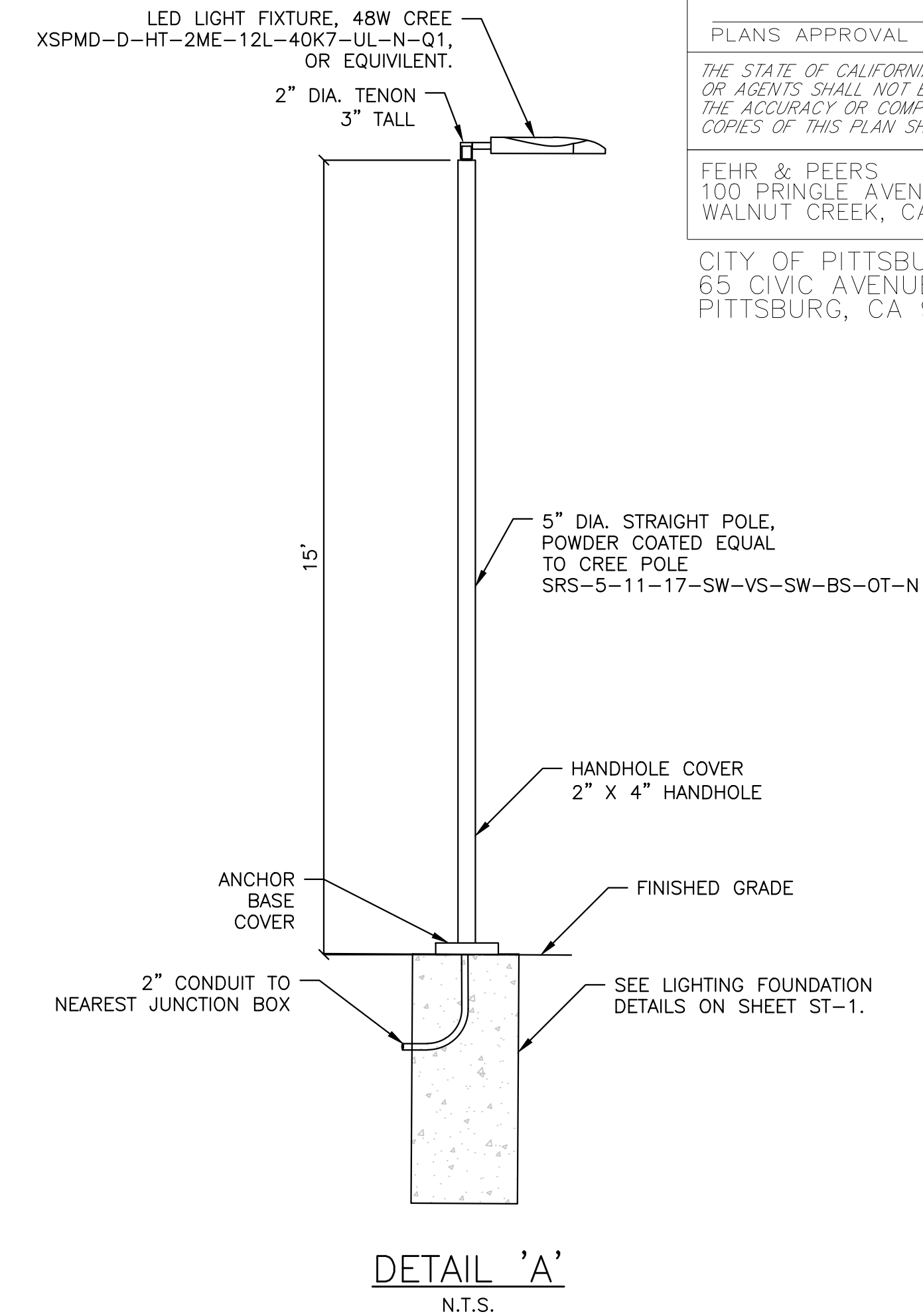
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	78	79


 REGISTERED CIVIL ENGINEER 04-24-23 DATE
 PLANS APPROVAL DATE
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FEHR & PEERS
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CITY OF PITTSBURG
 65 CIVIC AVENUE
 PITTSBURG, CA 94565

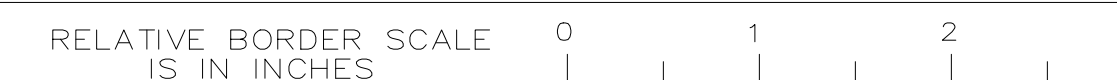
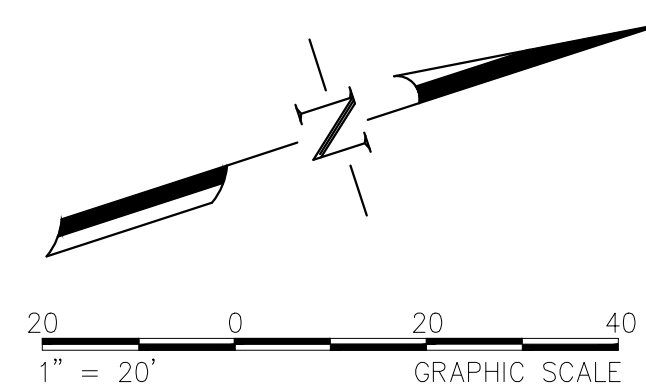


TRAIL LIGHTING PLAN

1"=20'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

Underground Service Alert
 Call: TOLL FREE
 811/800
 227-2600
TWO WORKING DAYS BEFORE YOU DIG



UNIT PROJECT NUMBER & PHASE 042100238 EA 2W580

**RAILROAD AVE
 TRAIL LIGHTING PLAN
 E-13**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

FUNCTIONAL SUPERVISOR
 04/24/23

DESIGNED BY SHANE RUSSELL
 CHECKED BY JOSH PETERMAN

DATE 04/24/2023
 REVISED BY DATE 04/24/2023

REVISIONS

DATE PLOTTED => 20-Dec-2022
 TIME PLOTTED => 22:58
 LAST REVISION 04-24-23

BORDER LAST REVISED 03/15/2022


USERNAME => srussell
 DWG FILE => 3679-1tg.dwg

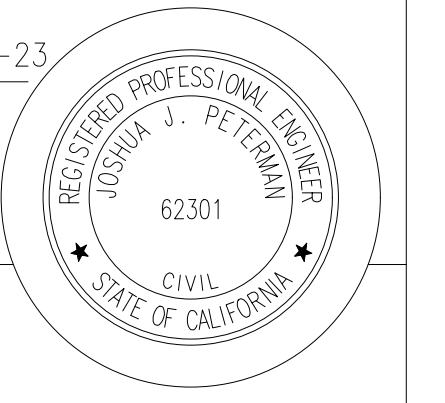
PROJECT NOTES (THIS SHEET ONLY):

- 1 INSTALL 48W CREE LUMINAIRE WITH PEU ON TRAIL LIGHT POLE. INSTALL 10A INLINE FUSE AT HANDHOLE AT BASE OF POLE. SEE 'DETAIL A' ON SHEET E-13.
- 2 INSTALL NEW 2" C, 2#8 (240V TRAIL LIGHTING CKT C-6), 1#8 G.
- 3 INSTALL NEW 2" C, 2#8 (240V TRAIL LIGHTING CKT C-5), 1#8 G.
- 4 INSTALL NEW 2" C, 4#8 (240V TRAIL LIGHTING CKT C-5 & C-6), 1#8 G.
- 5 MODIFY SERVICE CABINET TO ADD TWO NEW CONTACTORS AND TRAIL LIGHTING (15A/2P) CIRCUIT BREAKERS TO EXISTING SERVICE CABINET FOR TRAIL LIGHTING CIRCUITS C-5 AND C-6.

NOTE: RAILROAD AVENUE TRAIL LIGHTING PLANS (SHEETS E-13 AND E-14) ARE ADDITIVE BID D.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	04	23.0-23.4	79	79

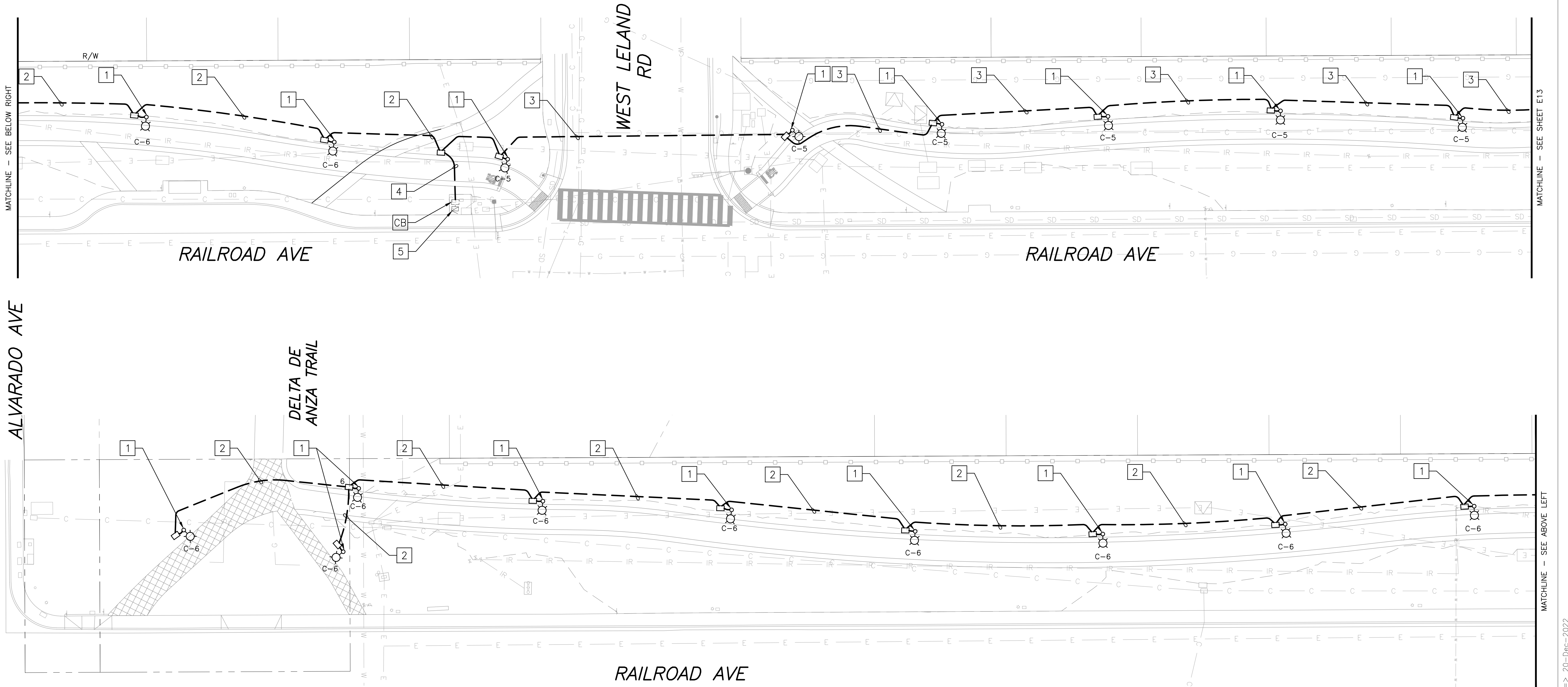

 REGISTERED CIVIL ENGINEER 04-24-23 DATE
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



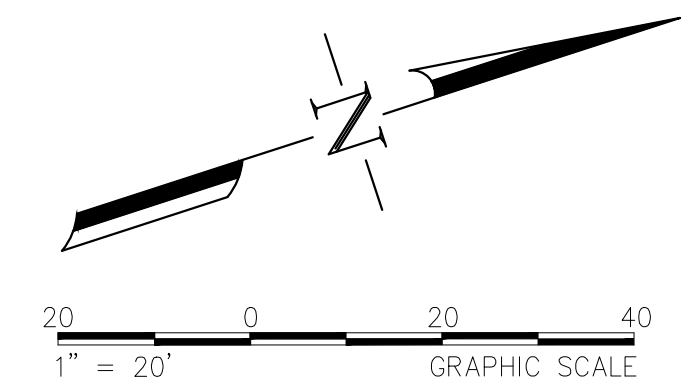
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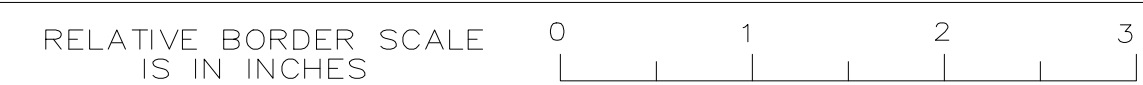
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 FUNCTIONAL SUPERVISOR
 04/24/23
 DESIGNED BY SHANE RUSSELL
 CHECKED BY JOSH PETERMAN
 REVISIONS:
 DATE 04/24/2023
 DATE 04/24/2023



Underground Service Alert
 Call: TOLL FREE
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 227-2600
 TWO WORKING DAYS BEFORE YOU DIG



TRAIL LIGHTING PLAN
 1"=20'
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RAILROAD AVENUE TRAIL LIGHTING PLAN E-14

LAST REVISION DATE PLOTTED => 20-Dec-2022
 04-24-23 TIME PLOTTED => 22:58