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March 27, 2024

Plan Holders of:

Interstate 580/Patterson Pass Road/International Parkway Diverging Diamond Interchange Improvements Project, CIP 73147, Federal Project Number: ACSB1IM-580-1(982)E

Subject: Addendum No. 4

Attached is Addendum No. 4 for the above referenced project.

If you have any questions regarding this addendum, please contact me at (209) 831-6455.

Sincerely,

Anju Pillai
Senior Civil Engineer

Attachment

cc: Project File

ADDENDUM NO. 4

Date: March 27, 2024

Plan Holders of: **Interstate 580/Patterson Pass Road/International Parkway Diverging Diamond Interchange Improvements Project, CIP 73147, Federal Project Number: ACSB1IM-580-1(982) E**

All prospective bidders are hereby notified that modification and/or changes are to be made to the specifications, plans and proposal documents for this project, as entitled above.

The following items indicate additions and/or deletions to the above referenced project's documents and are hereby made a part thereof and are subject to all applicable requirements there under as if originally shown and/or specified. This addendum modifies the Bidding Documents and is hereby made part of the Contract Documents for this project to the extent as though it were originally included therein.

This addendum shall be acknowledged either by 1) acknowledging on the Signature of Bidder page of the Bid Proposal or 2) signing the last page of this addendum and submitting it with the bid. Any proposal not in compliance with this requirement may be rejected.

The documents of this project are hereby changed as follows:

Q4.01 Sheet 25 of 31 "Special Details – Patterson Pass Road OC (Widen)" table indicates girder H at length 41'-2.5". It is believed this should be 42'-2.5". Please confirm.

A4.01 Girder H length is 42'-2.5".

Q4.02 Sheet 25 of 31 "Special Details – Patterson Pass Road OC (Widen)" table indicates Girder A to have 18 strands, however the small table on the right side of the page showing No. of Debonded Strands adds up to a total of 22 strands. Please confirm if Girder A has 22 strands or 18 strands.

A4.02 Girder A has 22 strands.

Q4.03 In the Summary of Quantities (Q-1), under Minor Concrete, it shows Driveway Concrete of 26 CY, but the subtotal is 21 CY. However, per the Construction Details of C-26, it is calling out the Driveways as 0.45' HMA/1.75' Class II AB. Please provide complete design with material call outs.

A4.03 Quantity Sheet Q-1 revised and Bid Schedule revised (See Attachment A).

Q4.04 In the Summary In the Summary of Quantities (Q-1), under Minor Concrete, it shows the various quantity of materials per each specific concrete type (Sidewalk, Curb Ramp, Etc.). However, the subtotals do not correspond to the item totals. Please clarify.

A4.04 Quantity Sheet Q-1 revised and Bid Schedule revised (See Attachment A).

Q4.05 Please provide a construction joint detail when we place the new Jointed Plain Concrete Pavement (JPCP) next to the existing I- 580 Structural Section (E-1, per Typical Cross Sections "X-1") in both the Ramp and Accelerations Lanes.

A4.05 Refer to the revised detail on Sheet C-32 included in the Addendum Plan set.

Q4.06 Specification page GC-12, indicates Builders Risk insurance asking for "All Perils" , we need a more detailed list of what all perils is referencing. Our insurance carrier needs clarification.

A4.06 Please see Attachment B for general information on perils.

Q4.07 Can we turn in forms 15G and 12B with the good faith effort? Normally this is done with the Good Faith Effort.

A4.07 Exhibit 12B should be turned in with the bid proposal at the bid opening. 15G can be submitted with Good Faith Effort.

Q4.08 In addendum #2 many quantities changed, are you going to update the effected plan sheets?

A4.08 Revised plan sheets included with Addendum #4.

Q4.09 Question – Q2.14/A2.14 – that K-rail is to be installed for this work, but the quantities for K-rail and crash cushions was not changed for this increase. Are the quantities going to be revised, along with the effected plan sheets (traffic handling, Q-sheets)?

A4.09 Revised plan sheets included with Addendum #4.

Q4.10 Please verify the correct quantity amount for Bid Item #92 MINOR CONCRETE (Misc Construction) – 850 CY. More specifically, the quantity for the Textured Concrete is under stated.

A4.10 Quantity Sheet Q-1 revised and Bid Schedule revised (See Attachment A).

Q4.11 Please provide schedule of proposed relocation of existing utilities to be done by others (PG&E, Comcast, Lumen, Zayo, AT&T, Crimson Oil, etc.).

A4.11 See Section 5-1.36C(3) for working days assigned to the utility owners to relocate or protect in place their utilities during construction.

Q4.12 Special Conditions Part 3.2 does not list the Special Provisions as a Contract Document. Should Special Provisions replace Item (I) Technical Provisions?

A4.12 Special Provisions would replace Technical Provisions.

Q4.13 General Conditions Part 3.3 (A) states that Caltrans Standard Specifications Sections 1 through 9 do not apply to these Contract Documents. Special Conditions 3.3 (D) indicates 12 subsections of the Caltrans Standard Specifications that are specifically incorporated. Special Condition 7.8 (A) then refers to Section 6-2 of the Caltrans Standard Specifications, which was not listed in Part 3.3(D) and would not apply according to Part 3.3. Furthermore Special Provisions indicate changes being made to Caltrans Standard Specifications Sections 5-1.20A, 5-1.20D, 5-1.23B(2)(a), 5-1.23B(2)(b), 5-1.32, 6-1.02, 6-1.03B, 7-1.02K(6)(j)(iii), and 8-1.04C which have been deemed non-applicable. Please clarify the appropriate parts of Caltrans Standard Specifications Sections 1 through 9 that will need to be followed.

A4.13 Follow General Conditions Part 3.3 and any instructions issued in bid addendums applicable to this section.

Q4.14 Plan Sheet R-8 (Retaining Wall Quantities) shows Wall #4 as being 153 LF long. Plan Sheet R-6 shows Wall #4 as being 564 LF in length. Can you please verify and adjust quantities for bid item numbers 40, 41, 64, 69 and 123.

A4.14 Retaining wall sheets revised and Bid Schedule revised (See Attachment A).

Q4.15 Please clarify any material requirements pertaining to Bid Item Number 90 for Gravel Filters. This item is depicted by the Drainage Details Plan Sheets DD-5 and DD-6, but the required material composition is not identified by the City or Caltrans Specifications.

A4.15 Gravel filter shall conform to the attached SSP 72-8, Gravel Filter.

Q4.16 Special Provision Section 5-1.36C(3) lists required work days for utility relocations that are to be performed during the contemplated interchange construction. Upon review of the third party utility relocations on Plan Sheets U-4, U-5, U-6, U-9 and U-10; there is no apparent reason that the Crimson Oil Casing work, the Lumen/Zayo joint fiber trench and the A T & T relocation cannot occur now. Please indicate what, if any, contemplated interchange construction work must occur prior to these third party utility companies starting their work and more importantly completing their required work.

A4.16 See Section 5-1.36C(3) for working days assigned to the utility owners to relocate or protect in place their utilities during construction.

Q4.17 The Typical Cross Sections plans indicate portions of existing pavement being removed or buried beneath slope fills. The Stage 2 Construction Plans indicate the removal of portions existing Ramps PPR1, PPR2 and PPR4. The Stage 1 Construction Plans indicate temporary pavement to be installed. There are not pay items for any full or partial pavement demolition required. Please add quantities and pay items for this work.

A4.17 All pavement removal items are included and paid for as "Roadway Excavation".

Q4.18 The Stage 1 Construction Plans indicate temporary paving into the existing median of Route 580. No sawcut along the existing pavement is indicated prior to performing this widening and traffic would need to drive across the existing rumble strips in the median of Route 580 in order to drive along the shifted traffic. 1) Will sawcutting the existing pavement prior to temporary paving be necessary? 2) Will routing traffic across the existing rumble strips be permitted?

A4.18 Removal of the existing shoulder and replacement with temporary pavement is no longer proposed for the I-580 median shoulders. The existing rumble strips will be ground out and replaced with AC.

Q4.19 Please indicate whether the Contractor may use asphalt rubber, preformed compression or silicone joint material for the Seal Pavement Joints and Seal Isolation Joints pay items at their own discretion or whether a particular material must be used for this work.

A4.19 Joint seal materials shall conform to Section 41-5, Joint Seals, of the Caltrans Standard Specifications.

Q4.20 The Special Provisions Standard Plans List includes many revised standards labeled with a "RSP" designation that are to be included with the project plans. Most of the listed "RSP" revised standard plans are in the plan set, however the following RSP plans are not found among the project plans: RSP A10F, RSP A10G, RSP A10H, RSP A24E, RSP A40E, RSP A62DA, RSP D90, RSP H9, RSP B11-79 and RSP B11-80. Please indicate whether the original 2022 Standard Plans are appropriate to use or if additional revised standard plans should be issued.

A4.20 2022 Revised Standard Plans (RSP), dated 11/18/22, will need to be used for the project. These additional RSP sheets have been included with Addendum #4.

Q4.21 Our interpretation of Plan Sheets U-4 and U-5 are that an existing overhead PG&E powerline and Comcast fiber optic line are to be relocated from an alignment directly over the proposed bridge widening to a variable distance of under 1 foot to 15 feet between the centerline of the utility poles to the edge of bridge deck. 1) Can the overhead utilities be shifted to a distance roughly 50 feet from the edge of proposed deck instead of the alignment depicted or be installed underground across Interstate 580. 2) If the powerline must be installed as depicted, has The City arranged for temporary deactivation of the powerlines and shielding the cables during construction?

A4.21 Per Section 5-1.36C(3), contractor is responsible for arranging with the utility owner for temporary deactivation of the powerlines, if needed.

Q4.22 Reviewing Google Earth images of the site, several slope slides were evident along Eastbound Interstate 580 adjacent to both Ramp alignments PPR3 and PPR4 the beginning of last year. 1) Have the conditions that contributed to these slope failures been corrected? 2) In the event more slope slides occur prior to or during construction will the Contractor be tasked with correcting the condition as extra work?

A4.22 The slopes between the mainline and eastbound ramps will be stabilized with permanent erosion control as part of the work.

Q4.23 Please clarify the required buried depth and material requirements under Bid Item Number 43 for 8" Corrugated High Density Polyethylene Pipe Conduit. The piping is shown on Plan Sheets L-3 and L-4 as Irrigation Cross Overs, but is not described by the City or Caltrans Specifications or Standard Drawings.

A4.23 The 8" Corrugated HDPE will be installed per Caltrans Standard Plan H-8. The proposed HDPE needs to be in conformance with Section 20-2.07 Irrigation Conduit of the Caltrans Standard Specifications.

Q4.24 Addendum 3 Answer A3.16 provides a pipe trench patch. Can the open cut work be performed during the detour of Eastbound Interstate 580 as shown on Plan Sheet DE-1?

A4.24 Contractor to determine sequencing of work along I-580 in accordance with the lane closure charts.

Q4.25 Please indicate the existing pavement section bidders should assume for the existing private road.

A4.25 Potholes undertaken along the existing private road noted an asphalt pavement thickness of 2-inches.

Q4.26 Please confirm that Bid Item Number 118 should be for End Anchor Assembly (Type SFT-M) instead of Type SPT-M.

A4.26 Bid Item description revised to "End Anchor Assembly (Type SFT-M)".

Q4.27 Reviewing Caltrans Standard Plan D87B, pertaining to Plastic Pipe Downdrains, which is not listed as a Standard Plan by the Special Provisions, it appears each 18" Plastic Downdrain location should also have a Tapered Inlet. Please confirm that tapered inlets will be required and add a pay item for these devices if deemed necessary.

A4.27 Caltrans Standard Plan D87B is added as a standard plan and tapered inlets are required. A new Bid Item #78 "18" Tapered Inlet" is added for 3 EA. Please refer to revised Bid Schedule (Attachment A).

Q4.28 Please confirm that the DWR Siphon Pipe is simply laying on the surface of the ground and that no installation details are needed to relocate the pipe. If installation details are necessary for the relocation, please provide the details needed for the relocation.

A4.28 The DWR siphon pipe segment is laying on the surface and is not connected to any pipe system. There is no installation required for the DWR pipe siphon segment. It just needs to be moved slightly further into the DWR property so it is not in the way of the proposed work in that location.

Q4.29 When do we expect to receive the Revised Plans reflect to the Addendums Quantities changes?

A4.29 Revised plan sheets included with Addendum #4.

Q4.30 Time consuming, we need revise plans so we can verify the changes of K-Rail, temporary ac pavement... etc.

A4.30 Revised plan sheets included with Addendum #4.

Q4.31 For future adding bid items and avoid mistake, please continue with new bid item numbers at the bottom of the page, so we don't have to renumber the bid items our bidding system.

A4.31 Bid Schedule will be renumbered only if adding or deleting bid items.

Q4.32 What type of Joint sealant it to be used for Bid Item 60 Seal pavement Joint 47,200 LF and Bid Item 61 Seal Isolation Joint 9,190 LF

A4.32 Joint seal materials shall conform to Section 41-5, Joint Seals, of the Caltrans Standard Specifications.

Q4.33 When can we anticipate the City issuing the revised plan sheets that are mentioned throughout Addendums 1-3? While the bid summary has been revised, it is difficult to accurately capture the changes without revised plan sheets.

A4.33 Revised plan sheets included with Addendum #4.

Q4.34 This questions is for bid item 96: DWR Woven Fence. Per the attached plan sheet C-30, general note #4 states "All tubular posts shall be filled with concrete or capped". Since it

mentions that note #4, does it mean we can install the posts per the attached document A86 circled in red?

A4.34 Posts to be installed per the details shown on the plans.

Q4.35 Sheet 25 of 31 "Elevation" – Indicates 1-1" dia. x 12" Bolts @ northernmost 14 girders only and southernmost 14 girders only. Given that there are 4 spans of girders and between 15 to 17 girders per span, it is unclear what/which 14 girders these notes are referring to. Please clarify

A4.35 The bolts are for attachment of the intermediate diaphragms, which only occur in the middle two spans. The notes are referencing the girders in each of those spans. The intent is to ensure that the two exterior girders in each span do not have the inserts placed on the exterior side of the spans. Therefore, 13 of the girders in the Southernmost 14 are the same 13 girders in the Northernmost.

Q4.36 Per Addendum #3, the quantities of Bid Item #11 Temporary Barrier System increased by 9,900 LF, to allow for the temporary widening of the median shoulder. However, in adding this "new" stage, a new Staging plan will be required. Some of the items that need to be thought about, prior to placing the new run of temporary barrier for the median work are:

- a. We will need to shift the existing pavement striping towards the outside shoulder.
- b. The existing rumble strips will need to be ground out and replaced with HMA.
- c. Is there enough room next to the existing abutment to shift the traffic over.
- d. Is the outside shoulder capable of handling the temporary traffic loads.
- e. Is the Increased K-rail enough for the two new runs.
- f. Will the working days be increased to accommodate this additional work?
- g. Various item quantities will need to be adjusted (striping, markings, crash cushions, signs, etc.).

A4.36

- a. The new stage is shoulder work only and does not require shifting traffic. Traffic will remain in the existing lane configuration.
- b. Cold plane and overlay of the existing rumble strips have been included in the revised sheets included with Addendum #4.
- c. Yes.
- d. Based on as-built information, both inside and outside shoulders are at full depth similar to mainline.
- e. Yes, the quantity increase in k-rail reflects what is required for construction of temporary shoulder widening on EB and WB I-580.
- f. The number of working days are not increased.
- g. See revised Bid Schedule (Attachment A)

Q4.37 We are having trouble locating details regarding Bid Item #89 – Relocate DWR Siphon Pipe. Other than the note called out on sheet L-2, we can not find any further information. Can the City please provide a detail for the work, and any other pertinent information such as if the pipe is active, flow rates, allowable shut down times, etc?

A4.37 The DWR siphon pipe segment is laying on the surface and is not connected to any pipe system. There is no installation required for the DWR pipe siphon segment. It just needs to be

moved slightly further into the DWR property so it is not in the way of the proposed work in that location.

Q4.38 Bid Item Number 93 for Miscellaneous Iron and Steel is listed as a Final Quantity. Plan Sheets DQ-1, DQ-3, DQ-4 and DQ-5 indicate no quantity for Misc. Iron and Steel under Drainage System/Units 10c, 10h, 20h, 20i, 20j, 28e, 28h, 28k, 40b and 40d. Plan Sheet Q-1 lists the minor concrete dikes required, Plan Sheet C-29 indicates reinforcing steel in these dikes, but the quantity of reinforcing is not tabulated. Please adjust this Final Quantity accordingly.

A4.38 See revised Bid Schedule (Attachment A).

Q4.39 The electrical system quantities plan sheets EQ-1 EQ-2 and EQ-3 each indicate "Jack & Bore" locations. The Caltrans specifications differentiate between Jack and Drilling (87-1.03B(3)(d)) and Horizontal Directional Drilling (87-1.03B(3)(c)). Please confirm that either method will be permitted at the Contractor's discretion.

A4.39 Per Caltrans Specification 87-1.03B(3)(a), "Install conduit under pavement by either the horizontal directional drilling method or jack and drill method."

Q4.40 Caltrans Standard Plan D87D for Overside Drains indicates details for Hot Mix Asphalt and corrugated metal flume sections. We have been unable to locate a detail indicating concrete overside drains. Plan Sheet DD-3 does depict a concrete overside drain, but does not provide dimensions or whether reinforcing is required.

A4.40 Refer to the revised detail on Sheet DD-4a included in the Addendum Plan set.

Q4.41 Please confirm that this project will not require a Traffic Control Supervisor as the Bid Schedule does not include a pay item for this scope of work.

A4.41 No separate bid item for Traffic Control Supervisor. Traffic Control is the contractor responsibility per the specifications that needs to be covered under existing bid items.

Q4.42 Please confirm that the project will not require Detectable Warning Surface as the Bid Schedule does not include a pay item for this scope of work.

A4.42 Detectable Warning Surface is required and will be installed per Section 73-1.02B of Caltrans Standard Specification. A new Bid Item "Detectable Warning Surface is added for 540 SQFT. Please refer to revised Bid Schedule (Attachment A).

Q4.43 Please confirm whether the detail for textured paving shown on Plan Sheet C-12 applies to only the ramp gores or also to the islands shown on Plan Sheets C-13 thru C-22.

A4.43 Same texture paving will apply to both gore and island areas.

Q4.44 Plan Sheet C-12 indicates Brick Red (ASTM-STD Color, Typ.) on the surface of the textured concrete. The specifications do not indicate whether this coloring must be mixed into the concrete or will be applied to the surface of the concrete as a stain. The method of payment for this coloring is also not defined by the Contract Documents.

A4.44 Caltrans Standard Specification 73-4 allows the dry shake method. Integral color mixes are also allowed. There is no specified method on this contract. There is no separate payment for coloring or finishing concrete.

Q4.45 Addendum 3 Answer A3.19 indicates that the Engineer's Estimate is \$40 million. In the event the City receives a lowest responsive bid drastically higher than the Engineer's Estimate, will the City be able to award the Contract? If so, is there a maximum threshold value that would prevent the award from being made?

A4.45 City will make the decision based on its discretion.

Q4.46 For bid item no. 46, Hydroseed, what is to be included? ECL-1 does not show the step for hydroseeding or material needed for this item.

A4.46 Hydroseed is a component of the erosion control process depicted in the upper-right table labeled 'Erosion Control' on sheet ECL-1. This entails providing and installing a seed mix according to Caltrans Standard Specifications (Section 21). Compost, fiber rolls, seed mix, and bonded fiber matrix are required to fulfill the task, with each item being bid on separately.

Q4.47 For Fiber Rolls on ECL-1, it states Type 1 AND Type 2, but within EC-1 to EC-10 fiber rolls do not list what type to be used. Please clarify as to where Type 1 and Type 2 will be installed.

A4.47 Type 1

Q4.48 Seems to be a discrepancy on the length of R.W No. 4 as well. Please verify if the length should be 153' or 564'? Please adjust the quantity accordingly as well.

A4.48 Retaining wall sheets revised and Bid Schedule revised (See Attachment A).

Q4.49 Bid Item 158. Quantity seems way low. What is included in this item? Please verify that the EE quantity of 308 LB is correct.

A4.49 The quantity for Bid Item "Miscellaneous Metal (Bridge)" is revised to 1,036 LB.

Q4.50 Bid Item 143. What is included in this item? Where are the drill and bond dowels into the existing bridge for the barrier rail paid for? In the barrier items?

A4.50 Per Caltrans Standard Specifications, 83-3, drill and bond dowels for Concrete Barriers is included in the unit price paid for Concrete Barriers. There are drill and bond dowels between the existing bridge and the new bridge. See plans for locations.

Q4.51 Is Item 121 Type 60M or Type 60MS? Also, the quantity appears to include the length on the Bridge (Item 159-Type 60MA).

A4.51 Bid Item description revised to "Concrete Barrier (Type 60MS)" and quantity revised to 470 LF.

Q4.52 Item 123 quantity should be 1708 LF (RW2=914'+RW3=230'+RW4=564').

A4.52 The quantity for Bid Item "Concrete Barrier (Type 842A)" is revised to 1,710 LF.

Q4.53 Item 124 is for Barrier at RW3 which should be included with other RW Barriers (not Type 842B).

A4.53 Bid Item "Concrete Barrier (Type 842B)" is deleted.

Q4.54 Per Addendum #3, in addition to submitting Exhibit 15-G DBE Commitment and Exhibit 15-H Good Faith Effort, being due within 5 business days from bid opening, can Exhibit 12-B Bidder's List of Subcontractor (DBE and non-DBE) – Part I and Exhibit 12-B Bidder's List of Subcontractor (DBE and non-DBE) – Part 2, be also be turned in within the 5 business days from bid opening?

A4.54 No, Exhibit 12-B should be provided with the bid proposal at the bid opening.

Q4.55 Can the city please provide us with the costs for the encroachment permits that are required in the specifications?

A4.55 The cost for the encroachment permits that are required for the project are determined by the issuing agency.

All other items remain unchanged.

DocuSigned by:
Koosun Kim
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Koosun Kim
City Engineer

END OF ADDENDUM NO. 4

ATTACHMENT A- UPDATED BID SCHEDULE

Bid Schedule (Revision 4, per Addendum # 4)

This Bid Schedule must be completed in ink and must be included with the sealed Bid Proposal. Pricing must be provided for each Bid Item as indicated. Items marked "(SW)" are Specialty Work that must be performed by a qualified Subcontractor. The lump sum or unit cost for each item must be inclusive of all costs, whether direct or indirect, including profit and overhead. The sum of all amounts entered in the "Extended Total Amount" column must be identical to the Base Bid price entered in Section 1 of the Bid Proposal Form.

AL = Allowance CF = Cubic Feet CY = Cubic Yard EA = Each LB = Pounds
 LF = Linear Foot LS = Lump Sum SQFT = Square Feet TON = Ton (2000 lbs)
 S = Specialty Item F= Final Pay WDAY = Working Day

BID ITEM NO.	S/F	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT COST	EXTENDED TOTAL AMOUNT
1		LEAD COMPLIANCE PLAN	LS	1	\$	\$
2		LEVEL 2 CRITICAL PATH METHOD SCHEDULE	LS	1	\$	\$
3		TIME-RELATED OVERHEAD	WDAY	300	\$	\$
4		DEVELOP WATER SUPPLY	LS	1	\$	\$
5		CONSTRUCTION AREA SIGNS	LS	1	\$	\$
6		TRAFFIC CONTROL SYSTEM	LS	1	\$	\$
7		TEMPORARY TRAFFIC STRIPE (PAINT)	LF	64,800	\$	\$
8		CHANNELIZER (SURFACE MOUNTED)	EA	705 572	\$	\$
9		PORTABLE RADAR SPEED FEEDBACK SIGN SYSTEM DAY	EA	300	\$	\$
10		TEMPORARY PAVEMENT MARKER	EA	1,210	\$	\$
11		TEMPORARY BARRIER SYSTEM	LF	23,300 33,200	\$	\$
12		PORTABLE CHANGEABLE MESSAGE SIGN (LS)	LS	1	\$	\$
13		TEMPORARY AUTOMATED END OF QUEUE WARNING SYSTEM (TYPE 1) DAY	EA	300	\$	\$
14		TEMPORARY CRASH CUSHION MODULE	EA	244 182	\$	\$
15		ALTERNATIVE TEMPORARY CRASH CUSHION TL-3	EA	6 5	\$	\$
16		TEMPORARY RADAR SPEED FEEDBACK SIGN SYSTEM	EA	4	\$	\$

BID ITEM NO.	S/F	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT COST	EXTENDED TOTAL AMOUNT
17		JOB SITE MANAGEMENT	LS	1	\$	\$
18		PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	1	\$	\$
19		RAIN EVENT ACTION PLAN	EA	33	\$	\$
20		STORM WATER ANNUAL REPORT	EA	3	\$	\$
21		TEMPORARY EROSION CONTROL BLANKET	SQYD	18,500	\$	\$
22		MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)	EA	4	\$	\$
23		TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	SQYD	45,600	\$	\$
24		TEMPORARY DRAINAGE INLET PROTECTION	EA	32	\$	\$
25		TEMPORARY FIBER ROLL	LF	34,600	\$	\$
26		TEMPORARY SILT FENCE	LF	15,400	\$	\$
27		TEMPORARY CONSTRUCTION ENTRANCE	EA	11	\$	\$
28		STREET SWEEPING	LS	1	\$	\$
29		TEMPORARY CONCRETE WASHOUT	LS	1	\$	\$
30		ASBESTOS COMPLIANCE PLAN	LS	1	\$	\$
31		HEALTH AND SAFETY PLAN	LS	1	\$	\$
32		REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	LF	19,710	\$	\$
33		TREATED WOOD WASTE	LB	1,300 8,400	\$	\$
34		INVASIVE SPECIES CONTROL	LS	1	\$	\$
35		DUST CONTROL PLAN	LS	1	\$	\$
36		REMOVE CONCRETE (CY)	CY	1,180	\$	\$
37		TEMPORARY HIGH-VISIBILITY FENCE	LF	330	\$	\$
38		CLEARING AND GRUBBING (LS)	LS	1	\$	\$

BID ITEM NO.	S/F	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT COST	EXTENDED TOTAL AMOUNT
39		ROADWAY EXCAVATION	CY	32,500 40,700	\$	\$
40	F	STRUCTURE EXCAVATION (RETAINING WALL)	CY	5,692 12,307	\$	\$
41	F	STRUCTURE BACKFILL (RETAINING WALL)	CY	5,808 13,599	\$	\$
42		IMPORTED BORROW (CY)	CY	112,900 115,000	\$	\$
43		8" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	LF	170	\$	\$
44		BONDED FIBER MATRIX (SQFT)	SQFT	830,000	\$	\$
45		FIBER ROLLS	LF	10,600 13,900	\$	\$
46		HYDROSEED	SQFT	830,000	\$	\$
47		COMPOST (CY)	CY	4,100	\$	\$
48		CLASS 2 AGGREGATE SUBBASE	CY	9,800	\$	\$
49		CLASS 2 AGGREGATE BASE (CY)	CY	11,000 15,200	\$	\$
50		LEAN CONCRETE BASE	CY	4,900	\$	\$
51		BASE BOND BREAKER	SQYD	97,800 44,000	\$	\$
52		HOT MIX ASPHALT (TYPE A)	TON	17,300 14,200	\$	\$
53		RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	50 3,600	\$	\$
54		TACK COAT	TON	33 30	\$	\$
55		PLACE HOT MIX ASPHALT DIKE (TYPE A)	LF	3,400 2,910	\$	\$
56		PLACE HOT MIX ASPHALT DIKE (TYPE E)	LF	1,170	\$	\$
57		PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)	SQYD	50 116	\$	\$
58		REMOVE ASPHALT CONCRETE DIKE	LF	3,000	\$	\$
58		COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	44,300	\$	\$
60 59		JOINTED PLAIN CONCRETE PAVEMENT	CY	16,300 16,800	\$	\$
64 60		SEAL PAVEMENT JOINT	LF	47,200	\$	\$

BID ITEM NO.	S/F	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT COST	EXTENDED TOTAL AMOUNT
62 61		SEAL ISOLATION JOINT	LF	9,190	\$	\$
63 62		54" CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	LF	14	\$	\$
64 63		60" CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	LF	51	\$	\$
65 64	F	STRUCTURAL CONCRETE, RETAINING WALL	CY	1,955 2,299	\$	\$
66 65	F	STRUCTURAL CONCRETE, BOX CULVERT	CY	50 210	\$	\$
67 66	F	STRUCTURAL CONCRETE, MODIFIED BOX CULVERT	CY	4 18	\$	\$
68 67	F	STRUCTURAL CONCRETE, HEADWALL	CY	130 140	\$	\$
69 68	F	STRUCTURAL CONCRETE, DRAINAGE INLET	CY	150	\$	\$
70 69	F	BAR REINFORCING STEEL (RETAINING WALL)	LB	305,019 309,724	\$	\$
74 70	F	FURNISH SIGN STRUCTURE (TRUSS)	LB	59,920	\$	\$
72 71	F	INSTALL SIGN STRUCTURE (TRUSS)	LB	59,920	\$	\$
72	F	CONCRETE BACKFILL (PIPE TRENCH) (RAPID STRENGTH CONCRETE)	CY	24	\$	\$
73		18" REINFORCED CONCRETE PIPE	LF	1,680	\$	\$
74		24" REINFORCED CONCRETE PIPE	LF	2,180	\$	\$
75		30" REINFORCED CONCRETE PIPE	LF	340	\$	\$
76		78" REINFORCED CONCRETE PIPE	LF	30	\$	\$
77		18" PLASTIC PIPE DOWNDRAIN	LF	130	\$	\$
78		18" TAPERED INLET	EA	3	\$	\$
78 79		FLUME ANCHOR ASSEMBLY	EA	2	\$	\$
79 80		DRAINAGE INLET MARKER	EA	24	\$	\$
80 81		18" CORRUGATED STEEL PIPE RISER (.064" THICK)	LF	10	\$	\$
81 82		18" CONCRETE FLARED END SECTION	EA	6	\$	\$

BID ITEM NO.	S/F	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT COST	EXTENDED TOTAL AMOUNT
82 83		24" CONCRETE FLARED END SECTION	EA	9	\$	\$
83 84		REMOVE OVERSIDE DRAIN	EA	16	\$	\$
84 85		REMOVE CULVERT (LF)	LF	80	\$	\$
85 86		REMOVE DOWNDRAIN (EA)	EA	6	\$	\$
86 87		REMOVE INLET	EA	3	\$	\$
87 88		REMOVE HEADWALL	EA	4	\$	\$
88 89		REMOVE CONCRETE FLARED END SECTION (EA)	EA	2	\$	\$
89 90		RELOCATE DWR SIPHON PIPE	LS	1	\$	\$
90 91		ROCK SLOPE PROTECTION (20 lb, Class I, METHOD B) (CY)	CY	50	\$	\$
91 92		GRAVEL FILTER	CY	40	\$	\$
92 93		MINOR CONCRETE (GUTTER) (LF)	LF	550	\$	\$
93 94		DETECTABLE WARNING SURFACE	SQFT	540	\$	\$
94 95		MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	CY	850 1,100	\$	\$
95 96	F	MISCELLANEOUS IRON AND STEEL	LB	12,000 22,100	\$	\$
96 97		FENCE (TYPE BW, METAL POST)	LF	8,400 8,100	\$	\$
97 98		DWR WOVEN FENCE	LF	220	\$	\$
98 99		12' WIRE MESH GATE	EA	2	\$	\$
99 100		REMOVE FENCE (TYPE BW)	LF	9,400	\$	\$
100 101		RELOCATE DWR SWING GATE	EA	1	\$	\$
101 102		DELINEATOR (CLASS 1)	EA	130	\$	\$
102 103		PAVEMENT MARKER (RETROREFLECTIVE)	EA	1,580	\$	\$
103 104		TREATMENT BEST MANAGEMENT PRACTICE MARKER	EA	10	\$	\$
104 105		REMOVE ROADSIDE SIGN	EA	18	\$	\$
105 106		RELOCATE ROADSIDE SIGN	EA	25	\$	\$

BID ITEM NO.	S/F	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT COST	EXTENDED TOTAL AMOUNT
104 107		RELOCATE ROADSIDE SIGN (STRAP AND SADDLE BRACKET METHOD)	EA	25 1	\$	\$
105 108		FURNISH LAMINATED PANEL SIGN (1"-TYPE A)	SQFT	1,070	\$	\$
106 109		FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	SQFT	1,170	\$	\$
107 110		METAL (BARRIER MOUNTED SIGN)	LB	420	\$	\$
108 111		ROADSIDE SIGN - ONE POST	EA	142	\$	\$
109 112		ROADSIDE SIGN - TWO POST	EA	2	\$	\$
110 113		INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	EA	2	\$	\$
111 114		MIDWEST GUARDRAIL SYSTEM (STEEL POST)	LF	1,630 1,680	\$	\$
112 115		VEGETATION CONTROL (MINOR CONCRETE)	SQYD	1,560	\$	\$
113 116		DOUBLE MIDWEST GUARDRAIL SYSTEM (STEEL POST)	LF	200	\$	\$
114 117	F	CABLE RAILING	LF	551	\$	\$
115 118	F	CONNECT GUARD RAILING TO STRUCTURE	EA	9 10	\$	\$
116 119		TRANSITION RAILING (TYPE WB-31)	EA	10	\$	\$
117 120		RAIL TENSIONING ASSEMBLY	EA	5 2	\$	\$
118 121		END ANCHOR ASSEMBLY (TYPE SPT-M) (TYPE SFT-M)	EA	5	\$	\$
119 122		ALTERNATIVE IN-LINE TERMINAL SYSTEM	EA	11	\$	\$
120 123		CONCRETE BARRIER (TYPE 60SD)	LF	270	\$	\$
121 124		CONCRETE BARRIER (TYPE 60M)	LF	60	\$	\$
122 125		CONCRETE BARRIER (TYPE 60MS)	LF	1,000 470	\$	\$
123 126		CONCRETE BARRIER (TYPE 60MD)	LF	440	\$	\$
124 127		CONCRETE BARRIER (TYPE 842A)	LF	1,070 1,710	\$	\$

BID ITEM NO.	S/F	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT COST	EXTENDED TOTAL AMOUNT
124		CONCRETE BARRIER (TYPE 842B)	LF	220	\$	\$
125 128		REMOVE GUARDRAIL	LF	680	\$	\$
126 129		THERMOPLASTIC PAVEMENT MARKING (ENHANCED WET NIGHT VISIBILITY)	SQFT	5,220	\$	\$
127 130		6" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) (BROKEN 6-1)	LF	1,930	\$	\$
128 131		6" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) (BROKEN 17-7)	LF	100	\$	\$
129 132		6" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) (BROKEN 36-12)	LF	14,600	\$	\$
130 133		6" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)	LF	39,900	\$	\$
131 134		8" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)	LF	11,700	\$	\$
132 135		8" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) (BROKEN 12-3)	LF	2,970	\$	\$
133 136		12" RUMBLE STRIP (ASPHALT CONCRETE PAVEMENT)	STA	100	\$	\$
134 137	F	PIPE PIN	LB	737	\$	\$
135 138	F	STRUCTURE EXCAVATION (BRIDGE)	CY	2,184	\$	\$
136 139	F	STRUCTURE BACKFILL (BRIDGE)	CY	1,329	\$	\$
137 140	F	STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	824	\$	\$
138 141	F	STRUCTURAL CONCRETE, BRIDGE	CY	455	\$	\$
139 142	F	STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)	CY	721	\$	\$
140 143		AGGREGATE BASE (APPROACH SLAB)	CY	3	\$	\$

BID ITEM NO.	S/F	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT COST	EXTENDED TOTAL AMOUNT
141 144	F	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE EQ)	CY	68	\$	\$
142 145		STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	CY	29	\$	\$
143 146		DRILL AND BOND DOWEL	LF	919	\$	\$
144 147		FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (30'-40')	EA	15	\$	\$
145 148		FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (40'-50')	EA	17	\$	\$
146 149		FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (80'-90')	EA	30	\$	\$
147 150	F	ERECT PRECAST CONCRETE GIRDER	EA	62	\$	\$
148 151		JOINT SEAL (MR 1 1/2")	LF	179	\$	\$
149 152	F	BAR REINFORCING STEEL (BRIDGE)	LB	615,231	\$	\$
150 153	F	HEADED BAR REINFORCEMENT	EA	728	\$	\$
151 154		REMOVE CONCRETE DECK SURFACE	SQFT	4,146	\$	\$
152 155		PREPARE CONCRETE BRIDGE DECK SURFACE	SQFT	7,295	\$	\$
153 156		FURNISH POLYESTER CONCRETE OVERLAY	CF	512	\$	\$
154 157	F	PLACE POLYESTER CONCRETE OVERLAY	SQFT	5,142	\$	\$
155 158		BRIDGE REMOVAL (PORTION)	LS	1	\$	\$
156 159		FURNISH DECK OVERLAY (CONCRETE)	LS CY	34	\$	\$
157 160	F	PLACE DECK OVERLAY (CONCRETE)	LS SQYD	237	\$	\$
158 161	F	MISCELLANEOUS METAL (BRIDGE)	LS LB	308 1,036	\$	\$
159 162		CONCRETE BARRIER (TYPE 60MA)	LF	519	\$	\$
160 163	F	CONCRETE BARRIER (TYPE 836)	LF	347	\$	\$

BID ITEM NO.	S/F	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT COST	EXTENDED TOTAL AMOUNT
161 164	F	CONCRETE BARRIER (TYPE 836 MODIFIED)	LF	195	\$	\$
162 165		SALVAGE METAL BRIDGE RAILING	LF	532	\$	\$
163 166		LIGHTING (CITY STREET)	LS	1	\$	\$
164 167		MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION	LS	1	\$	\$
165 168		LOCATING AND MAPPING UNDERGROUND FACILITIES	LS	1	\$	\$
166 169		LIGHTING SYSTEM	LS	1	\$	\$
167 170		SIGNAL AND LIGHTING SYSTEM	LS	1	\$	\$
168 171		RAMP METERING SYSTEM	LS	1	\$	\$
169 172		FIBER OPTIC CABLE SYSTEM	LS	1	\$	\$
170 173		TEMPORARY SIGNAL SYSTEMS	LS	1	\$	\$
171 174		MODIFYING TRAFFIC MONITORING STATIONS	LS	1	\$	\$
172 175		REMOVING SIGNAL AND LIGHTINGS SYSTEMS	LS	1	\$	\$
173 176		MOBILIZATION	LS	1	\$	\$

TOTAL BASE BID: Items 1 through ~~173~~-176_inclusive: \$ _____

[Note: The amount entered as the "Total Base Bid" should be identical to the Base Bid amount entered in Section 1 of the Bid Proposal form.]

BIDDER NAME: _____

END OF BID SCHEDULE

ATTACHMENT B- GENERAL INFORMATION ON PERILS

Builder's Risk Insurance (Course of Construction)

Insurance for property under construction is called "Builder's Risk" or "Course of Construction" insurance. This protects the interests of both the owner and contractor by covering property under construction as well as equipment and materials to be installed. Pricing takes into account changing values as construction nears completion.

Often, the contractor provides builder's risk insurance on construction projects as a part of their construction services. The recommended default position in the insurance specifications require the contractor to provide it to protect both their and your interest in property while in the course of construction. However, many public entities have Builder's Risk coverage as part of their own property policy, and many larger agencies, or those in large programs, may be able to obtain broader or less expensive coverage from their own insurer. For large projects it's worth having a conversation with your broker about this and perhaps having the contractor provide a bid with and without the Builder's Risk cover in order to compare terms and pricing.

Items to consider include:

- **Perils**
Coverage should be written on an "all risk" (aka "Special" policy form) basis, and the perils of earthquake and flood should be **considered** for inclusion, but can be problematic due to pricing considerations. In an "all risk" form, earthquake and flood are the major exclusions. Earthquake and flood coverage are normally optional based on the needs and location of the project. For example, earthquake and/or flood coverage must be included if a grant funding the project or financing arrangements (i.e., bonds) require it. In California, Public Contract Code §7105 limits the amount of coverage that can be required for an "Act of God" defined as earthquake or tsunami, so this code may need to be considered if earthquake or tsunami coverage is to be required.
- **Deductibles**
Deductibles should be reasonable in relation to the financial ability of the parties and the size of the project. If your entity purchases the Builder's Risk Coverage, then you need to make clear who will be paying the deductible. Note that contractors typically purchase Builder's Risk coverage with relatively low deductibles, \$5,000 to \$25,000. If your entity decides to purchase the Builder's Risk coverage, then you need to clearly

ATTACHMENT C- UPDATED PLAN SHEETS

NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- FOR LOCATION AND TYPE OF CURBS, DIKES, CONCRETE BARRIERS, AND MGS SEE LAYOUT PLANS.
- SUPERELEVATIONS ARE SHOWN ON THE SUPERELEVATION DIAGRAMS.
- FOR MAINTENANCE VEHICLE PULLOUT AND CHP ENFORCEMENT AREA DETAIL, SEE CONSTRUCTION DETAIL AND LAYOUT PLANS.
- FOR LOCATIONS OF SAWCUT/CONFORM LINES, SEE LAYOUT PLANS.
- FOR LOCATION OF DITCH, BASIN AND EDGE DRAIN, SEE DRAINAGE PLANS AND CONTOUR GRADING PLANS.
- FOR RUMBLE STRIP LOCATIONS, SEE LAYOUT PLANS AND SUMMARY OF QUANTITIES.
- A SEVEN (7) DAY ADVANCE NOTIFICATION IS REQUIRED PRIOR TO STARTING WORK WITHIN THE DEPARTMENT OF WATER RESOURCES RIGHT-OF-WAY. CONTACT THE DEPARTMENT OF WATER RESOURCES, DIVISION OF ENGINEERING, ENCROACHMENT PERMIT SECTION, SACRAMENTO, CALIFORNIA AT (800) 600-4397. THE DWR DELTA FIELD DIVISION SHALL BE SIMULTANEOUSLY NOTIFIED AT (209) 833-2180 BY THE PERMIT HOLDER. MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT IN PLACE ALL CALIFORNIA STATE WATER PROJECT (SWP) FACILITIES AND APPURTENANCES, INCLUDING BUT NOT LIMITED TO COMMUNICATION AND CONTROL CABLES AND CATHODIC PROTECTION TEST STATIONS. THE PERMITTEE AND CONTRACTOR WILL BE LIABLE FOR ALL DAMAGES TO SWP FACILITIES AND APPURTENANCES AS A RESULT OF THE CONSTRUCTION AND FOR ANY OTHER DAMAGES OR LOSSES SUFFERED BY DEPARTMENT OR ITS WATER CONTRACTORS, INCLUDING POWER, IRRIGATION, MUNICIPAL AND INDUSTRIAL WATER SUPPLY, AND COMMUNICATION LOSSES.
- ALL TRENCH EXCAVATION SHALL COMPLY WITH THE MOST CURRENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARDS. TRENCH BACKFILL SHALL BE PLACED IN NO GREATER THAN 4-INCH LIFTS IF HAND COMPACTED OR NO GREATER THAN 8-INCH LIFTS IF POWER COMPACTED. TRENCH BACKFILL WITHIN DEPARTMENT OF WATER RESOURCES RIGHT-OF-WAY SHALL BE COMPACTED TO 95 PERCENT RELATIVE COMPACTION (ASTM D1557-12).
- COMMUNICATION AND CONTROL CABLES CONNECTED WITH THE OPERATION OF THE STATE WATER PROJECT ARE BURIED ALONG EITHER OR BOTH SIDES OF THE AQUEDUCT/PIPELINE WITHIN DEPARTMENT OF WATER RESOURCES RIGHT-OF-WAY, AS APPROXIMATELY DEPICTED ON THIS PLAN. PRIOR TO ANY EXCAVATION IN THIS AREA, THE CABLE(S) SHALL BE LOCATED AND EXPOSED BY POT-HOLING IN THE PRESENCE OF A DEPARTMENT OF WATER RESOURCES FIELD DIVISION REPRESENTATIVE. CALL AT LEAST SEVEN (7) DAYS IN ADVANCE FOR AN APPOINTMENT. ALL EXCAVATIONS WITHIN THREE (3) FEET OF THE CABLE(S) SHALL BE DONE USING HANDHELD TOOLS ONLY.
- PRIOR TO CONSTRUCTION, THE CONDITION OF THE DWR'S ROADS, FENCES, AND DWR LAND AREAS ADJACENT TO THE PROPOSED PROJECT AREA SHALL BE JOINTLY INSPECTED AND DOCUMENTED BY THE PERMITTEE AND DWR PERSONNEL. UPON COMPLETION OF THE PROPOSED CONSTRUCTION ACTIVITIES, THE CONDITION OF THESE FEATURES SHALL BE JOINTLY RE-INSPECTED. ALL WASTE MATERIAL, DEBRIS, ETC., SHALL BE REMOVED FROM THE DWR RIGHT OF WAY. THE PERMITTEE SHALL BE LIABLE FOR ALL COSTS ASSOCIATED WITH RESTORING THESE FEATURES TO PRE-CONSTRUCTION CONDITIONS.
- DWR'S ONGOING OPERATIONS AND MAINTENANCE ACTIVITIES SHALL NOT BE DISRUPTED DURING CONSTRUCTION. PERMITTEE SHALL MAINTAIN DWR ACCESS THROUGH THE WORKSITE AT ALL TIMES.
- STORAGE AND PLACEMENT OF CONSTRUCTION EQUIPMENT AND MATERIALS OVER DWR'S PIPELINE OR WITHIN DWR'S RIGHT OF WAY IS NOT ALLOWED.
- IN THE EVENT OF A SPILL OR OTHER INCIDENT WITHIN DWR'S RIGHT OF WAY, THE DWR DELTA FIELD DIVISION AREA CONTROL CENTER (ACC) NEEDS TO BE CONTACTED IMMEDIATELY AT (209) 833-2180.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	2	321

Vincent Burdick 04/21/23
 REGISTERED CIVIL ENGINEER DATE

04/21/2023
 PLANS APPROVAL DATE

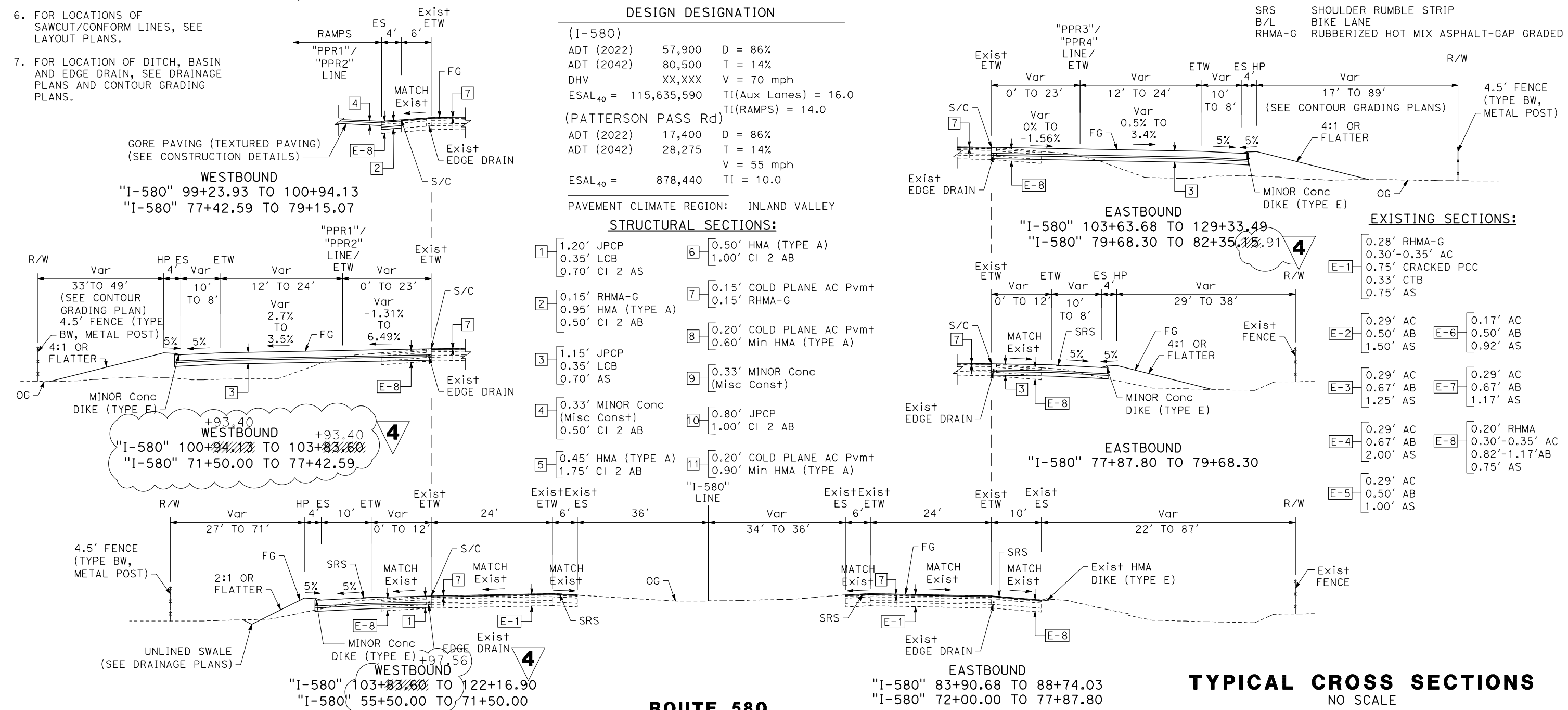
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MARK THOMAS
 701 UNIVERSITY AVENUE
 SUITE 200
 SACRAMENTO, CA 95825

CITY OF TRACY
 333 CIVIC CENTER PLZ
 TRACY, CA 95376

ABBREVIATIONS:

- SRS SHOULDER RUMBLE STRIP
- B/L BIKE LANE
- RHMA-G RUBBERIZED HOT MIX ASPHALT-GAP GRADED



4 REPLACED PER ADDENDUM No. 4 DATED MARCH 25, 2024 **TYPICAL CROSS SECTIONS**
NO SCALE

FINAL SUBMITTAL **X-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	11	321

<i>Vincent Guardian</i> 04/21/23 REGISTERED CIVIL ENGINEER DATE	
04/21/2023 PLANS APPROVAL DATE	
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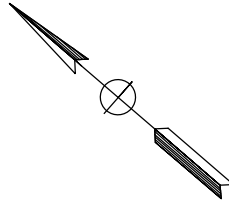
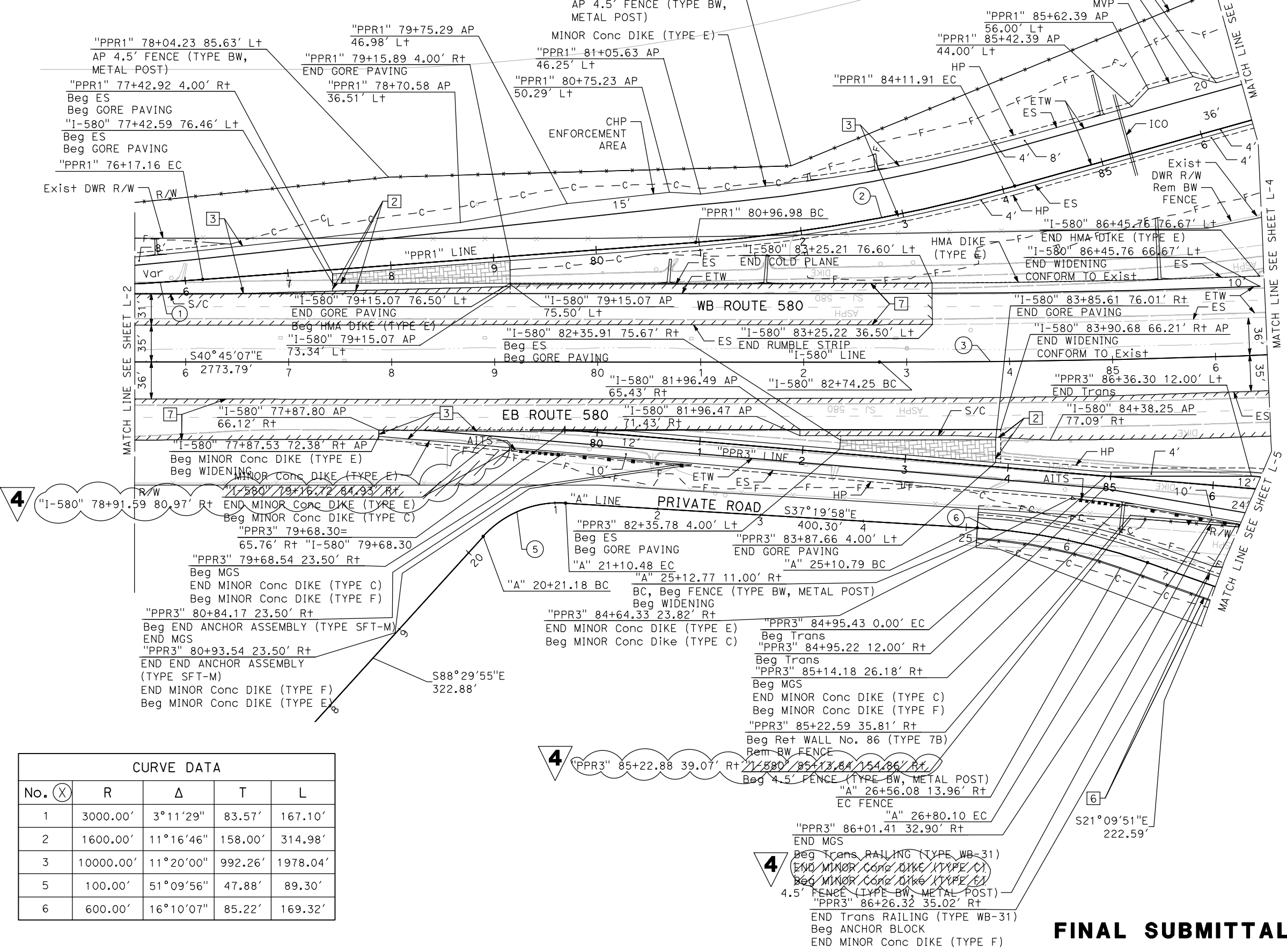


NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- FOR MGS POST CONFLICTS WITH THE TRIPLE 30" RCP PIPES, SEE C-31 FOR MGS POST SKIP DETAILS.

4 REPLACED PER ADDENDUM No. 4 DATED MARCH 25, 2024

CALIFORNIA AQUEDUCT
PROTECT IN PLACE



No.	R	Δ	T	L
1	3000.00'	3°11'29"	83.57'	167.10'
2	1600.00'	11°16'46"	158.00'	314.98'
3	10000.00'	11°20'00"	992.26'	1978.04'
5	100.00'	51°09'56"	47.88'	89.30'
6	600.00'	16°10'07"	85.22'	169.32'

FINAL SUBMITTAL

LAYOUT
SCALE: 1" = 50'

L-3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	580	12.6/14.3	12	321

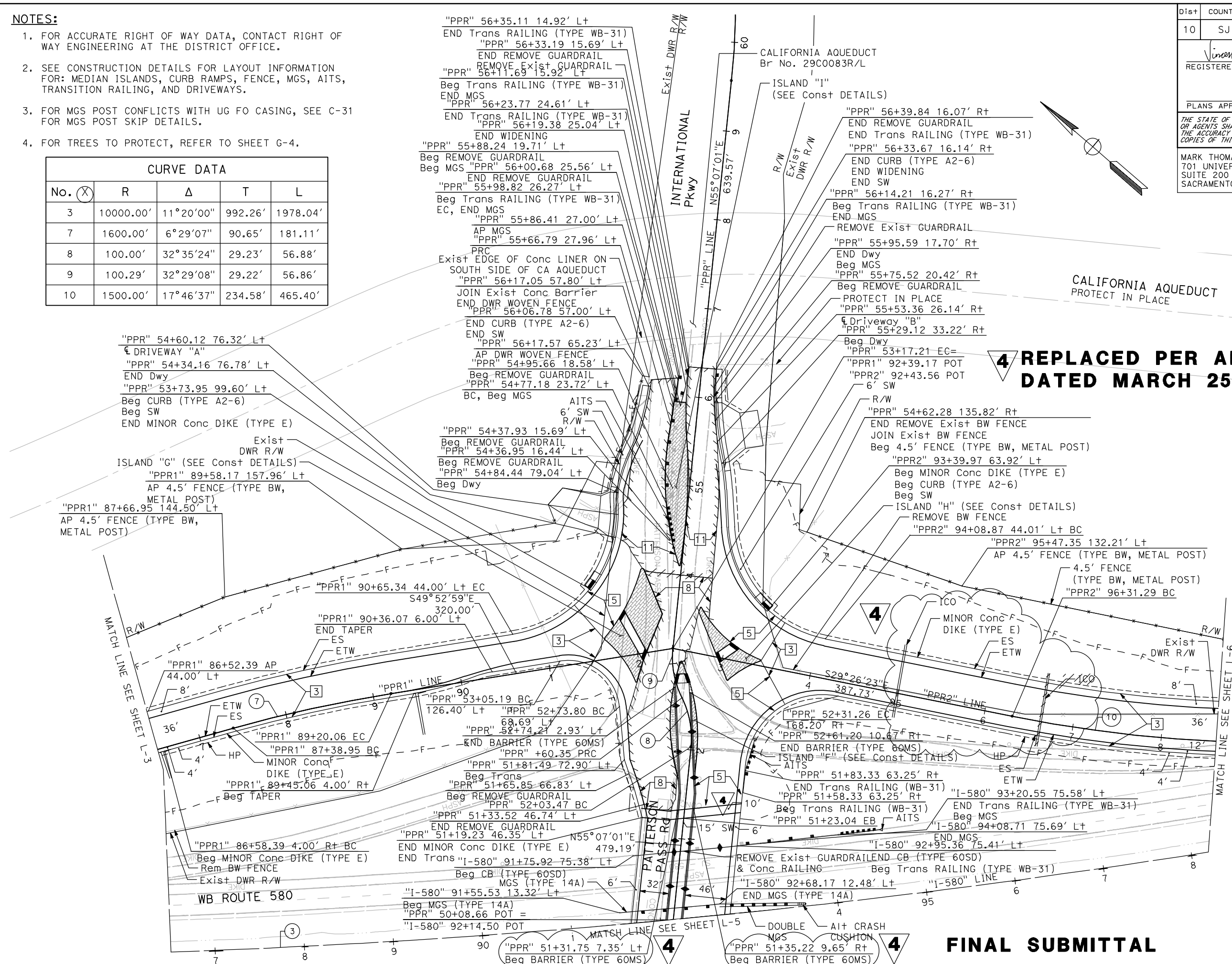
<i>Vincent Guardian</i> 04/21/23 REGISTERED CIVIL ENGINEER DATE	
04/21/2023 PLANS APPROVAL DATE	
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NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- SEE CONSTRUCTION DETAILS FOR LAYOUT INFORMATION FOR: MEDIAN ISLANDS, CURB RAMPS, FENCE, MGS, AITS, TRANSITION RAILING, AND DRIVEWAYS.
- FOR MGS POST CONFLICTS WITH UG FO CASING, SEE C-31 FOR MGS POST SKIP DETAILS.
- FOR TREES TO PROTECT, REFER TO SHEET G-4.

No. (X)	R	Δ	T	L
3	10000.00'	11°20'00"	992.26'	1978.04'
7	1600.00'	6°29'07"	90.65'	181.11'
8	100.00'	32°35'24"	29.23'	56.88'
9	100.29'	32°29'08"	29.22'	56.86'
10	1500.00'	17°46'37"	234.58'	465.40'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT FUNCTIONAL SUPERVISOR
 J. MARTINEZ
 V. GUARDIAN
 STEVEN B. BURICK



4 REPLACED PER ADDENDUM No. 4 DATED MARCH 25, 2024

LAYOUT
SCALE: 1" = 50'

FINAL SUBMITTAL

L-4

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	14	321

Vincent Guardian 04/21/23
 REGISTERED CIVIL ENGINEER DATE

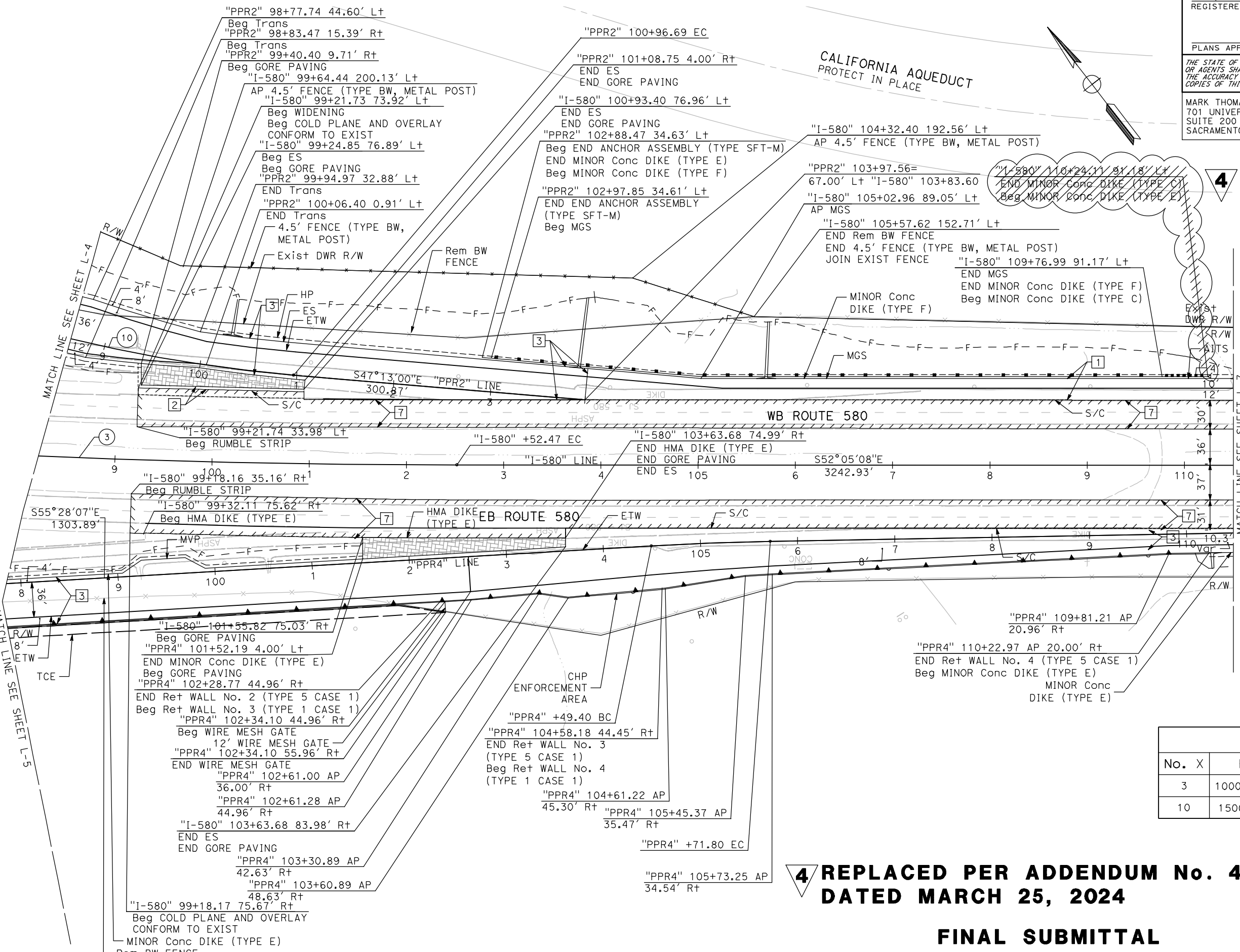
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MARK THOMAS
 701 UNIVERSITY AVENUE
 SUITE 200
 SACRAMENTO, CA 95825

CITY OF TRACY
 333 CIVIC CENTER PLZ
 TRACY, CA 95376

VINCENT GUARDIAN
 No. 75805
 Exp. 06/30/24
 CIVIL
 STATE OF CALIFORNIA



No.	X	R	Δ	T	L
3		10000.00'	11°20'00"	992.26'	1978.04'
10		1500.00'	17°46'37"	234.58'	465.40'

4 REPLACED PER ADDENDUM No. 4
 DATED MARCH 25, 2024

FINAL SUBMITTAL

LAYOUT
 SCALE: 1" = 50'

L-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Et-Caltans

REVISOR BY DATE
 J. MARTINEZ
 V. GUARDIAN

CALCULATED/DESIGNED BY CHECKED BY
 STEVEN B. BURICK

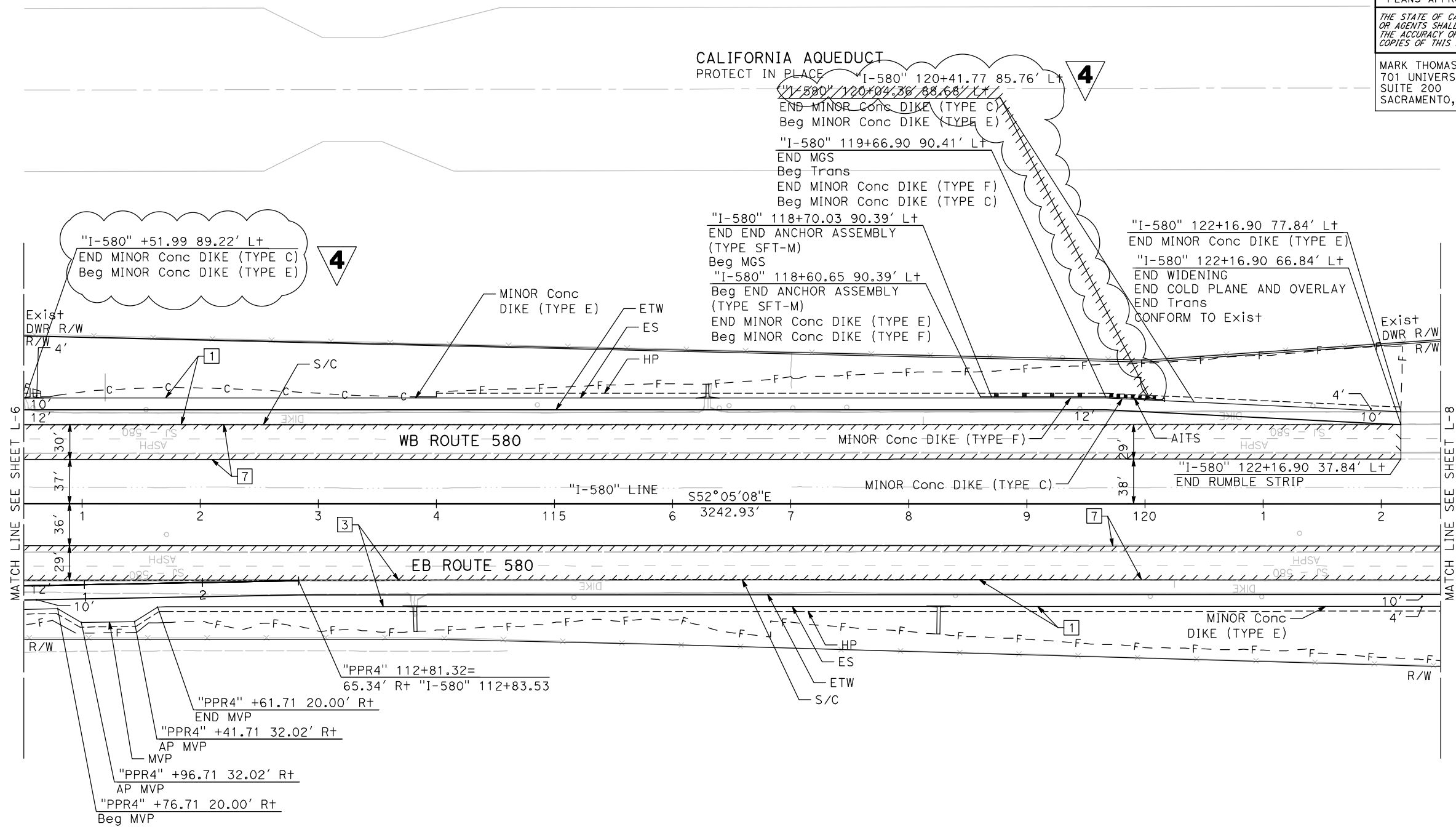
CONSULTANT FUNCTIONAL SUPERVISOR
 SUPERVISOR

LAST REVISION DATE PLOTTED => 26-MAR-24
 00-00-00 TIME PLOTTED => 08:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	15	321

<i>Vincent Guardian</i> 04/21/23 REGISTERED CIVIL ENGINEER DATE	
04/21/2023 PLANS APPROVAL DATE	
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MARK THOMAS 701 UNIVERSITY AVENUE SUITE 200 SACRAMENTO, CA 95825	CITY OF TRACY 333 CIVIC CENTER PLZ TRACY, CA 95376

NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT FUNCTIONAL SUPERVISOR: STEVEN B. BURICK
 CALCULATED/DESIGNED BY: J. MARTINEZ
 CHECKED BY: V. GUARDIAN
 REVISED BY: DATE REVISOR

4 REPLACED PER ADDENDUM No. 4
 DATED MARCH 25, 2024

FINAL SUBMITTAL

LAYOUT
 SCALE: 1" = 50'

L-7

LAST REVISION DATE PLOTTED => 26-Mar-24 00-00-00 TIME PLOTTED => 08:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	16	321

Vincent Guardian 04/21/23
 REGISTERED CIVIL ENGINEER DATE
 04/21/2023
 PLANS APPROVAL DATE

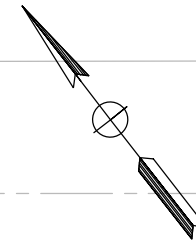
REGISTERED PROFESSIONAL ENGINEER
 VINCENT GUARDIAN
 No. 75805
 Exp. 06/30/24
 CIVIL
 STATE OF CALIFORNIA

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.

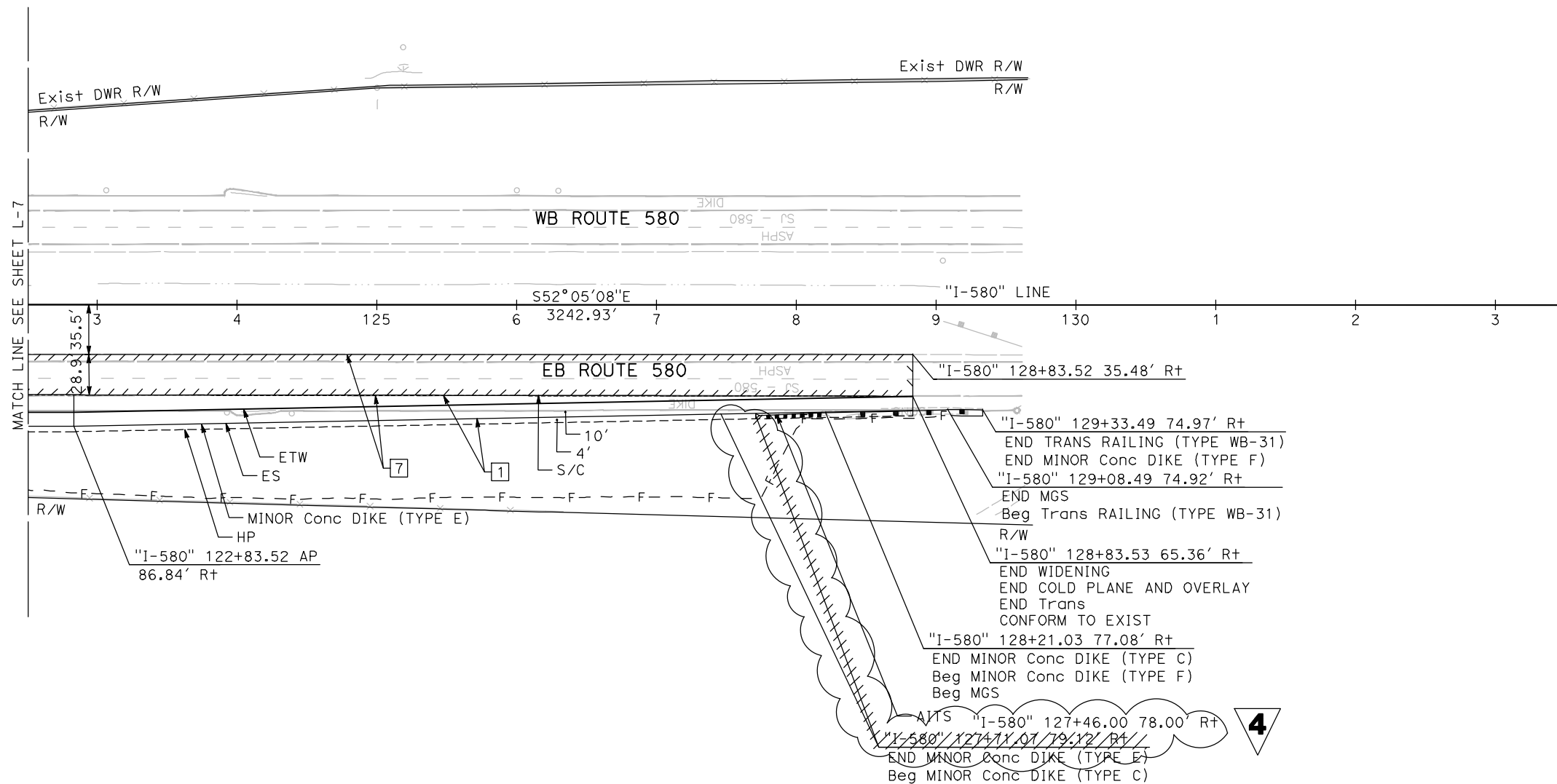
MARK THOMAS
 701 UNIVERSITY AVENUE
 SUITE 200
 SACRAMENTO, CA 95825

CITY OF TRACY
 333 CIVIC CENTER PLZ
 TRACY, CA 95376

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



CALIFORNIA AQUEDUCT
PROTECT IN PLACE



4 REPLACED PER ADDENDUM No. 4
DATED MARCH 25, 2024

FINAL SUBMITTAL

LAYOUT
SCALE: 1" = 50'

L-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR
Caltrans	STEVEN B. BURICK	J. MARTINEZ V. GUARDIAN	DATE REVISED

LAST REVISION DATE PLOTTED => 26-Mar-24
 00-00-00 TIME PLOTTED => 08:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	58	321

Vincent Guardian 04/21/23
REGISTERED CIVIL ENGINEER DATE

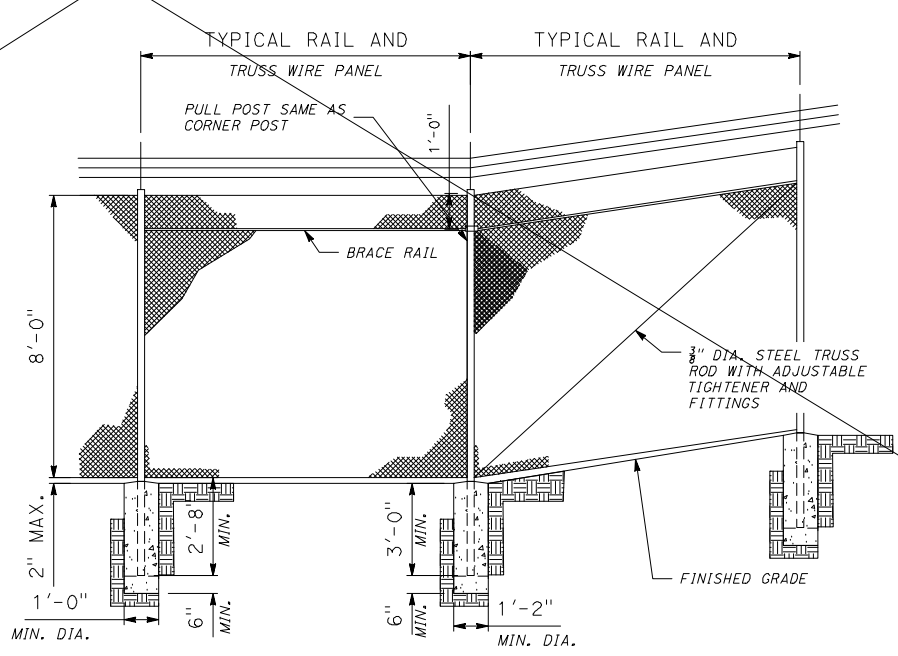
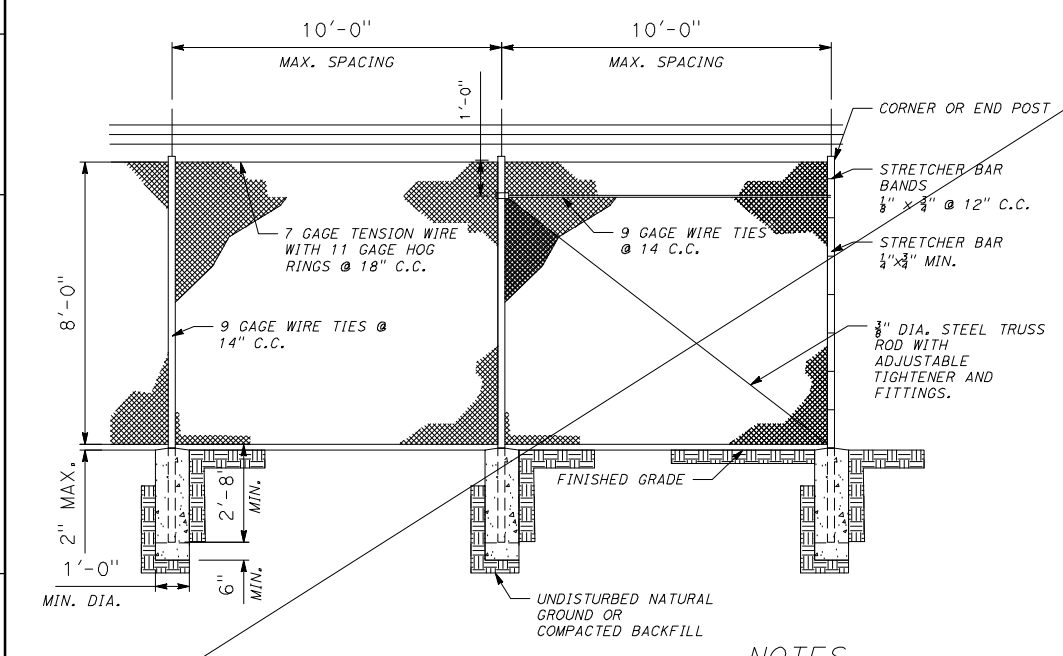
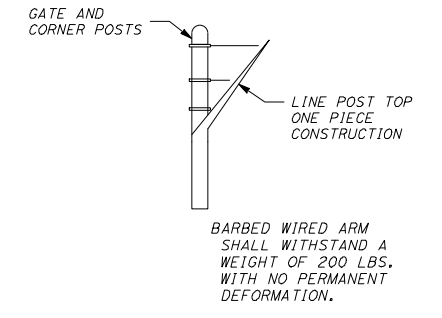
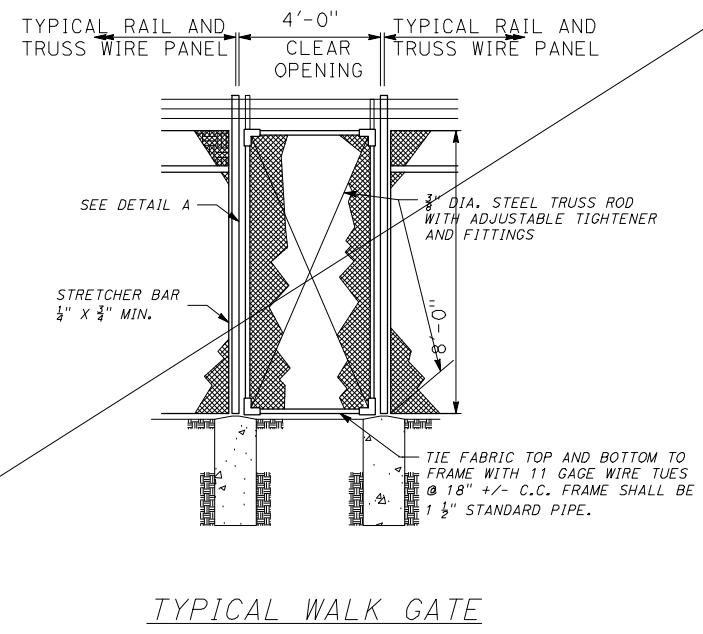
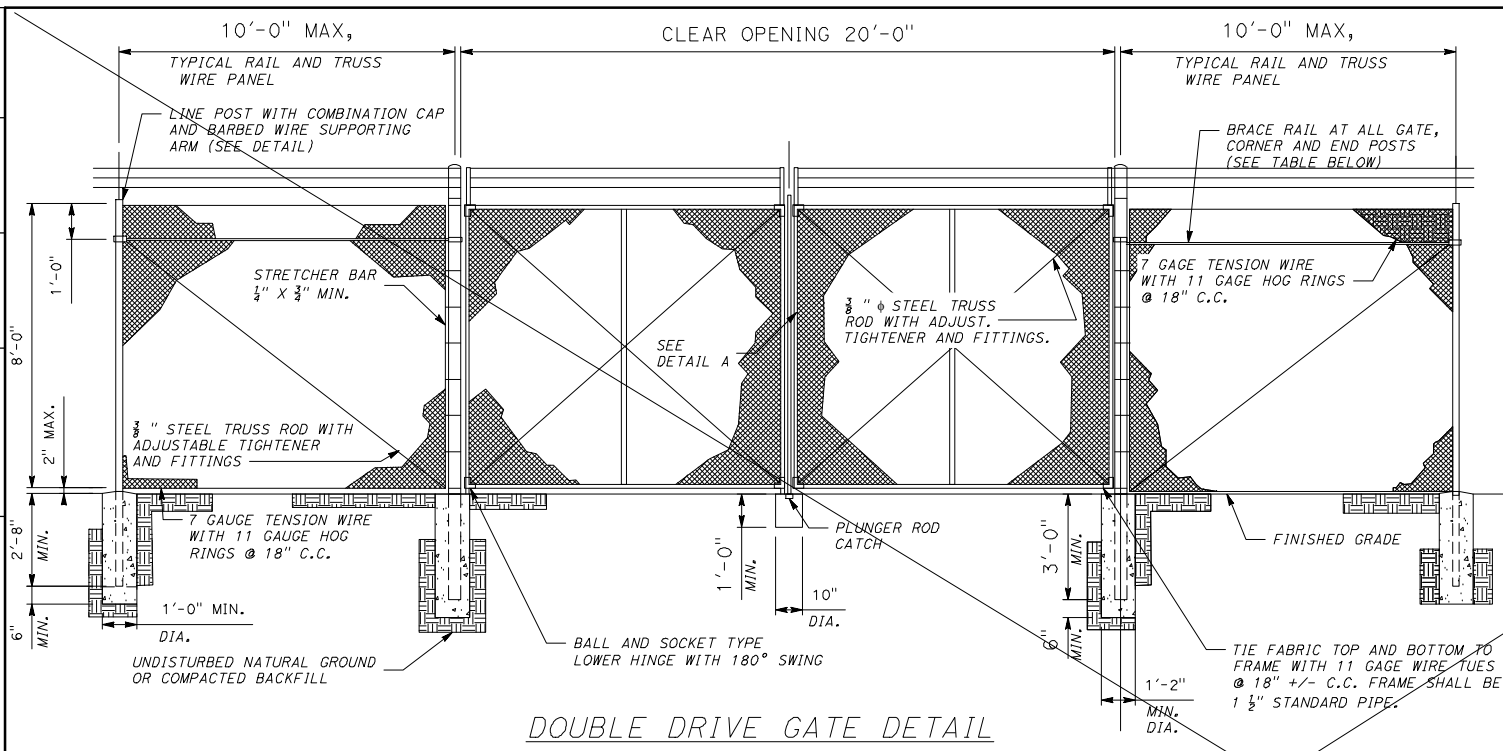
04/21/2023
PLANS APPROVAL DATE

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.

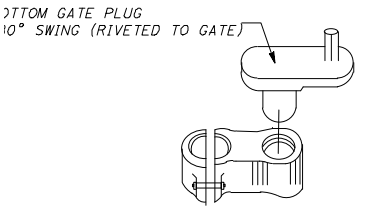
MARK THOMAS
701 UNIVERSITY AVENUE
SUITE 200
SACRAMENTO, CA 95825

CITY OF TRACY
333 CIVIC CENTER PLZ
TRACY, CA 95376

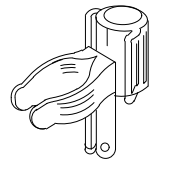
VINCENT GUARDIAN
No. 75805
Exp. 06/30/24
CIVIL
STATE OF CALIFORNIA



DETAIL OF BARBED WIRE SUPPORTING ARM



BOTTOM GATE HINGE TYPICAL ALL GATES



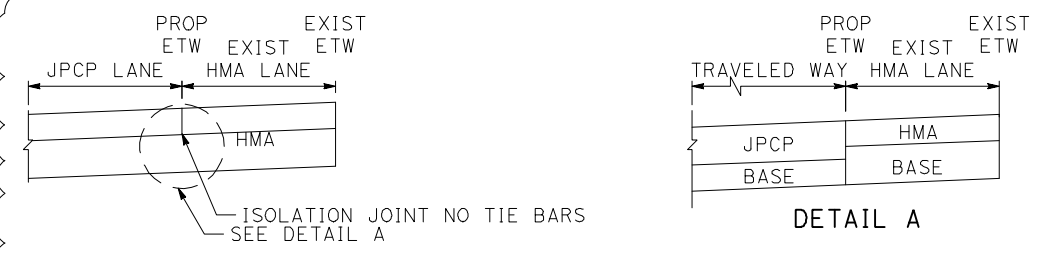
DETAIL A

NOTES
FOR CORNERS, TYPICAL RAIL AND TRUSS WIRE PANEL TO JOIN POST IN BOTH DIRECTIONS.

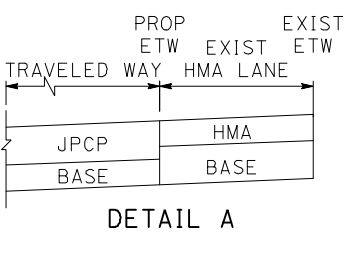
NOTES:
1. TRANSVERSE JOINT SPACING MAY BE ADJUSTED TO NO LESS THAN 10' AND NO MORE THAN 14' TO CONFIRM TO BRIDGES, CHANGE IN PAVEMENT TYPE, AND HARDENED CONCRETE PAVEMENT.
2. FOR TRANSVERSE JOINT AND DOWEL BAR DETAILS NOT SHOWN, SEE STANDARD PLAN P10.
3. FOR JOINT LAYOUT AT INTERSECTIONS, SEE PROJECT PLANS.
4. FOR LIMITS OF RUMBLE STRIPS, SEE PROJECT PLANS.

NOTES
1. ADJUSTABLE TIGHTENERS SHALL BE TURNBUCKLE OR EQUIVALENT, HAVING 6" MIN. TAKEUP.
2. TYPICAL RAIL AND TRUSS WIRE PANELS SHALL BE USED AT ALL CORNERS, END POSTS AND ANGLE POINTS, OR CURVES WITH HORIZONTAL DEFLECTION OF 45° OR GREATER.
3. SEE SPECIFICATIONS FOR ALTERNATIVE POSTS AND MATERIALS SUBMITTED.
4. DRAWING NOT TO SCALE.

POST & MATERIAL TABLE			
	TUBULAR SCH. 40 PIPE	OUTSIDE DIA.	THICKNESS
LINE POSTS	2"	2.375"	0.154"
CORNER, PILL & END POSTS	2 1/2"	2.875"	0.203"
WALK GATE POSTS	2 1/2"	2.875"	0.203"
DRIVE GATE POSTS	3 1/2"	4.000"	0.226"
BRACES	1 1/4"	1.660"	0.140"
GATE FRAMES	1 1/2"	1.900"	0.145"



ISOLATION JOINT



DETAIL A

CONSTRUCTION DETAILS
DWR STANDARD FENCING
DETAILS
NO SCALE C-32

FINAL SUBMITTAL

4 REPLACED PER ADDENDUM No. 4 DATED MARCH 25, 2024

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Et Caltrans

REVISOR BY DATE

J. MARTINEZ
V. GUARDIAN

CONSULTANT SUPERVISOR
STEVEN B. BURICK

CALCULATED/DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR

DEPARTMENT OF TRANSPORTATION

STATE OF CALIFORNIA

ISOLATION JOINT NO TIE BARS SEE DETAIL A

ISOLATION JOINT NO TIE BARS SEE DETAIL A

ISOLATION JOINT NO TIE BARS SEE DETAIL A

ISOLATION JOINT NO TIE BARS SEE DETAIL A

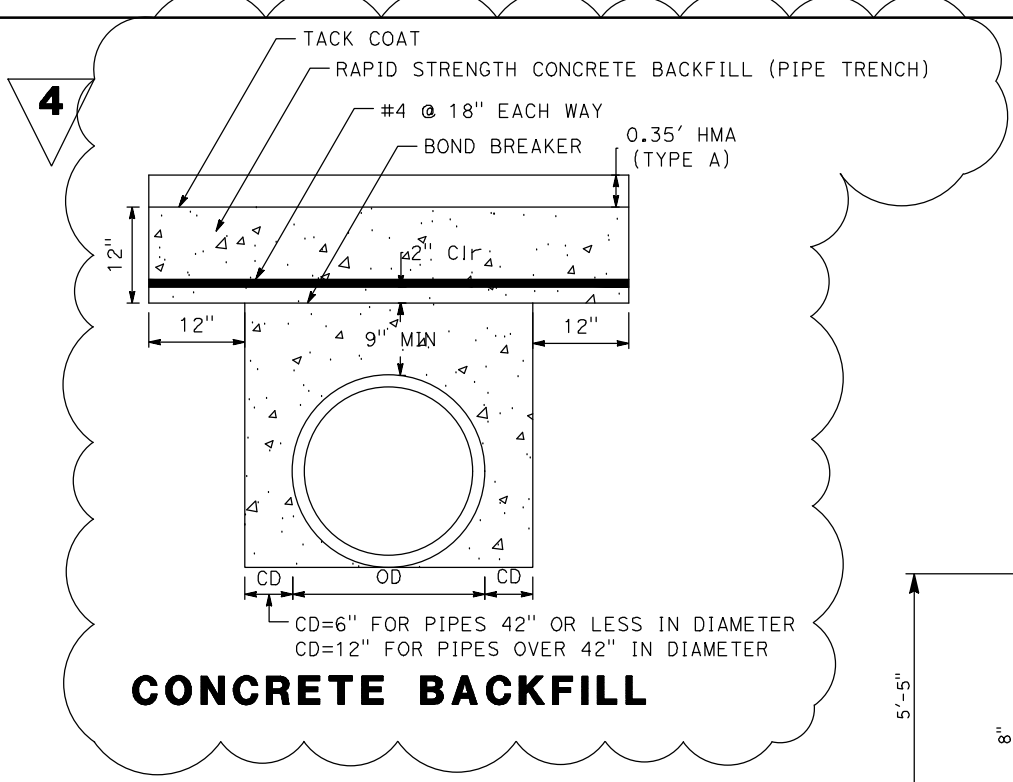
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	94	322

04/14/23
 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.

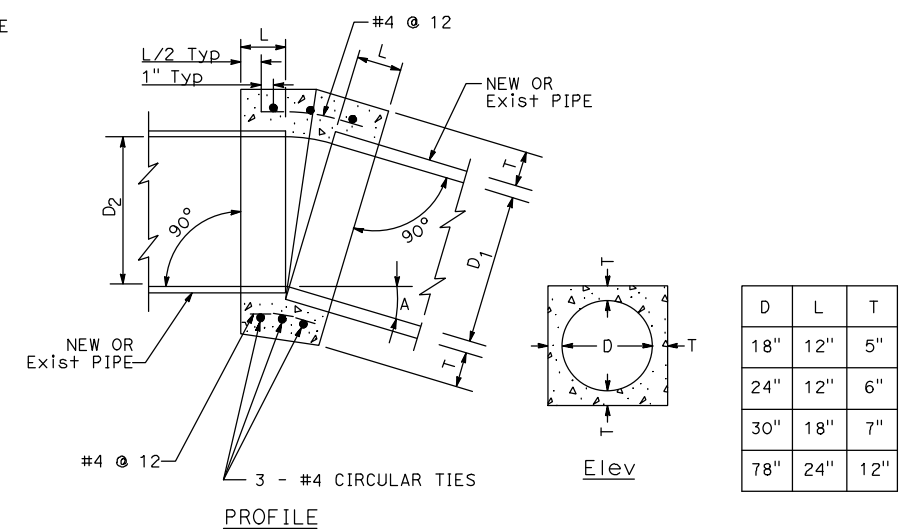
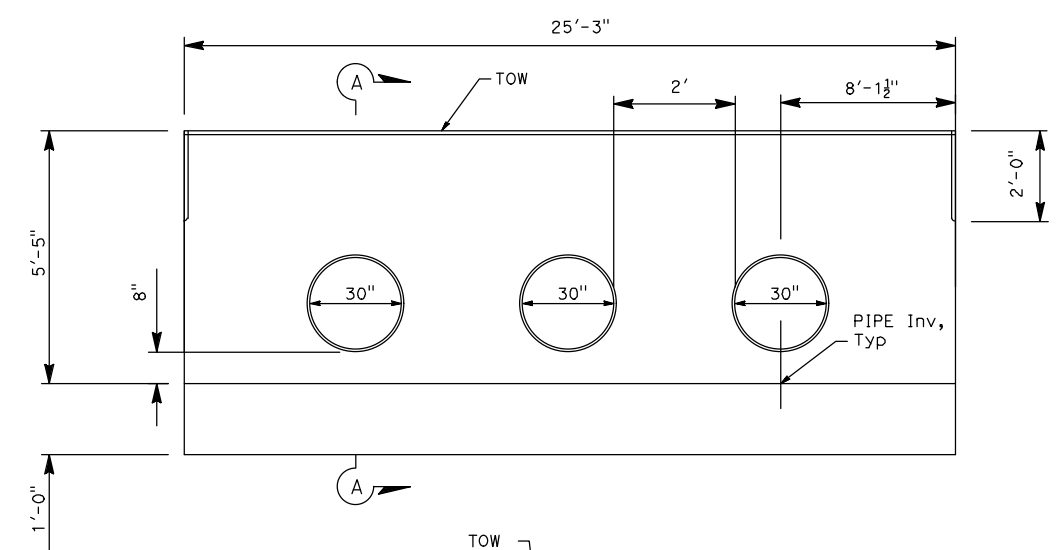
MARK THOMAS
 701 UNIVERSITY AVENUE
 SUITE 200
 SACRAMENTO, CA 95825

CITY OF TRACY
 333 CIVIC CENTER PLZ
 TRACY, CA 95376

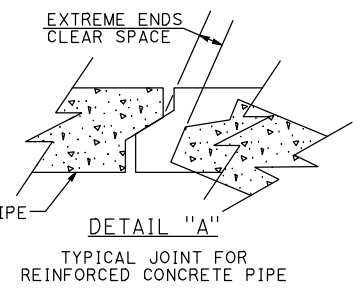


NOTES:

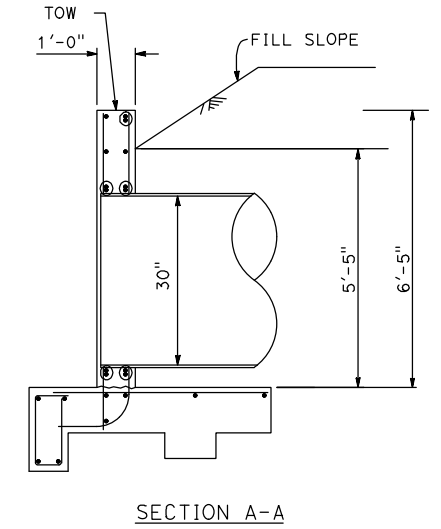
1. A CONCRETE COLLAR IS REQUIRED WHERE THE CHANGE IN GRADE EXCEEDS 0.10' PER FOOT, OR IF CHANGE IN ALIGNMENT EXCEEDS 0.10'.
2. IF THE EXTREME ENDS OF THE PIPE LEAVE A CLEAR SPACE THAT IS GREATER THAN 1" BUT LESS THAN 6", A CONCRETE COLLAR IS REQUIRED (SEE DETAIL "A" THIS SHEET). IF THE CLEAR SPACE IS 6" OR GREATER, A JUNCTION CHAMBER IS REQUIRED.
3. CONCRETE COLLAR SHALL NOT BE USED FOR A SIZE CHANGE ON THE MAIN LINE.
4. WHERE PIPES OF DIFFERENT DIAMETERS ARE JOINED WITH CONCRETE COLLAR, L AND T SHALL BE THOSE OF THE LARGER PIPE. D = D1 OR D2
5. OMIT REINFORCING ON PIPES 24" AND LESS IN DIAMETER AND ON ALL PIPES WHERE ANGLE A IS LESS THAN 10°.
6. WHERE REINFORCING IS REQUIRED THE DIAMETER OF THE CIRCULAR TIES SHALL BE D + (2 X WALL THICKNESS) + 8".
7. JOIN PIPES AT INVERTS.
8. PIPE MAY BE CORRUGATED METAL PIPE, CONCRETE PIPE, OR REINFORCED CONCRETE PIPE
9. CONCRETE SHALL BE MINOR CONCRETE.



D	L	T
18"	12"	5"
24"	12"	6"
30"	18"	7"
78"	24"	12"



CONCRETE COLLAR
 (TO BE USED WITH PIPES OF LIKE MATERIALS)
 (IF JOINT CAN BE CONSTRUCTED PER MANUFACTURERS SPECIFICATION AND CALTRANS Std SPECIFICATION 61-1.01, A COLLAR IS NOT REQUIRED)



STRAIGHT HEADWALL TRIPLE CIRCULAR PIPE

DRAINAGE SYSTEM	
No.	UNIT
10	c
10	h

4 REPLACED PER ADDENDUM No. 4 DATED MARCH 25, 2024

APPROVED FOR DRAINAGE WORK ONLY

FINAL SUBMITTAL

DRAINAGE DETAILS
NO SCALE

DD-2

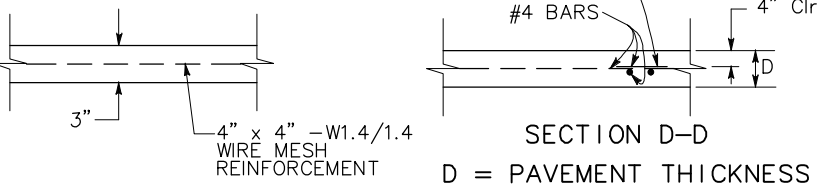
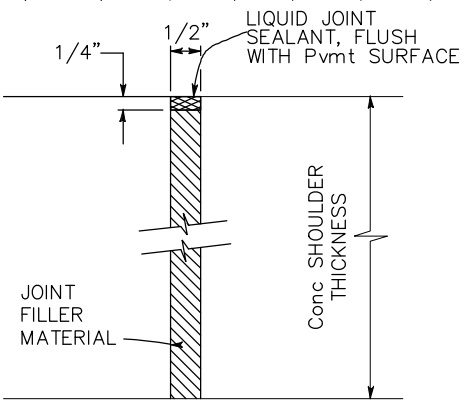
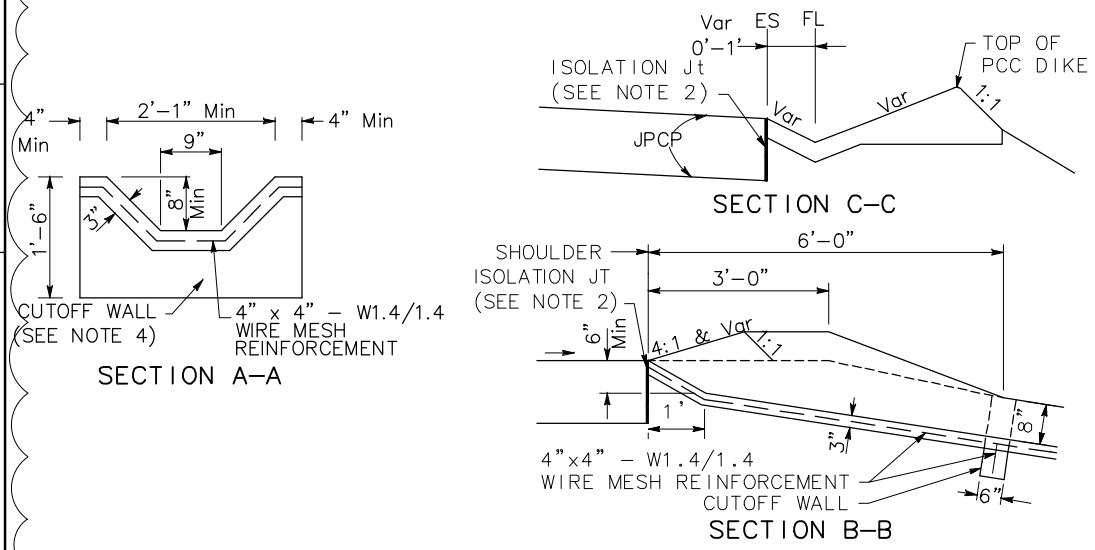
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT FUNCTIONAL SUPERVISOR: STEVEN B. BURICK
 CALCULATED/DESIGNED BY: M. PHOUMMATHEP
 CHECKED BY: F. DIAZ
 REVISOR: M. PHOUMMATHEP
 DATE: 04/14/23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	96A	322

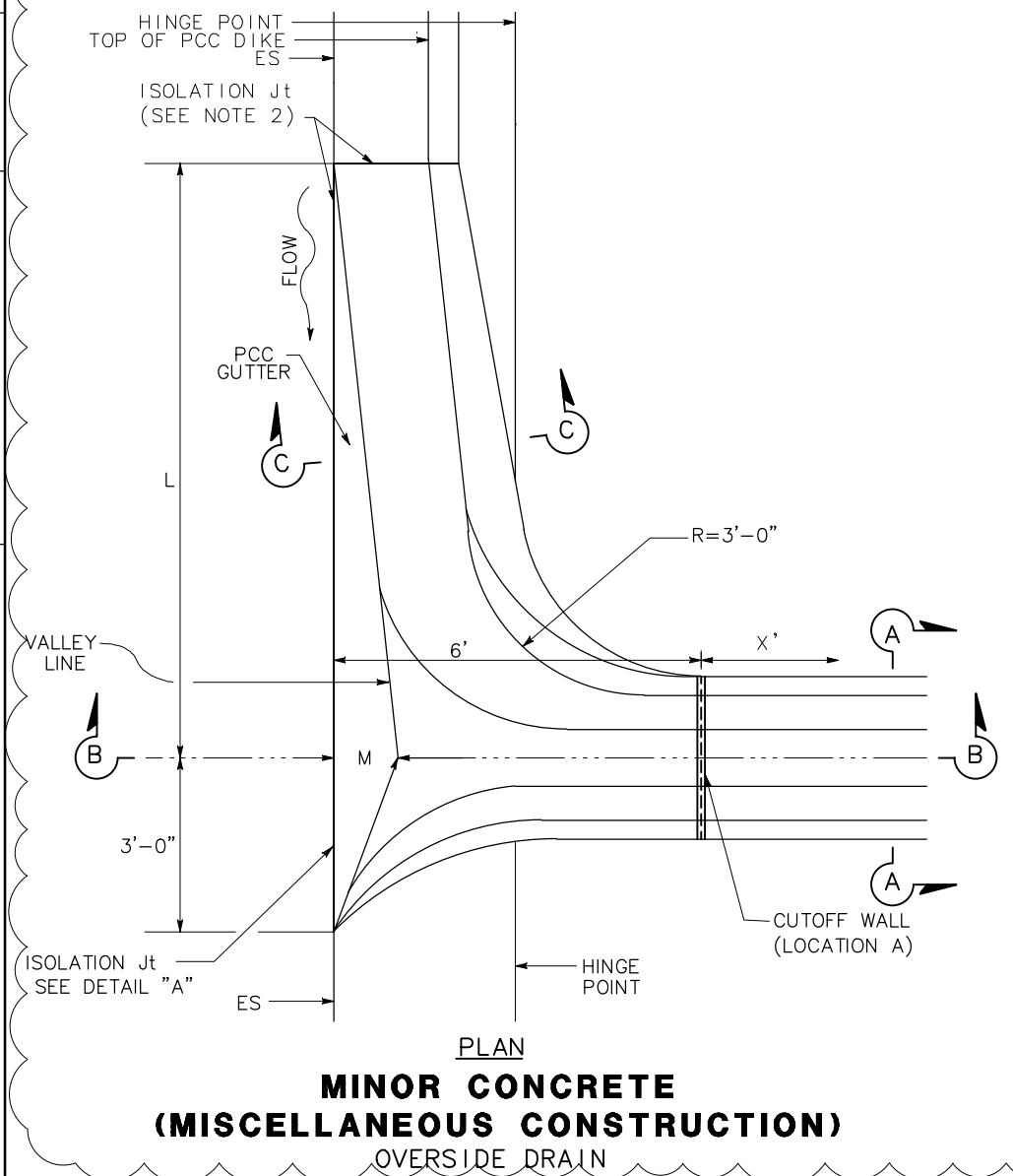
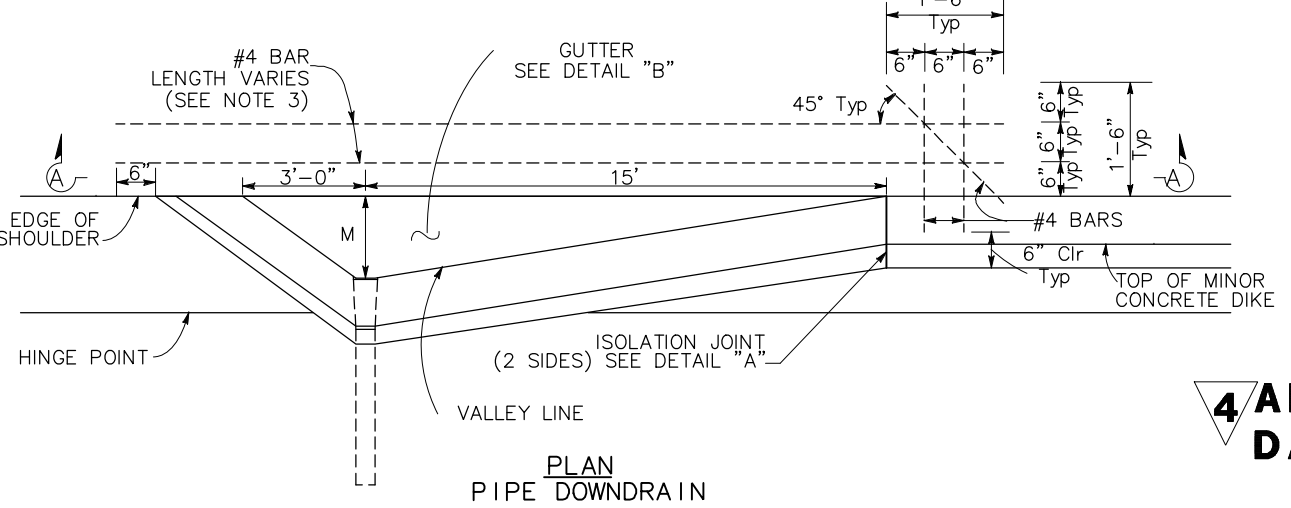
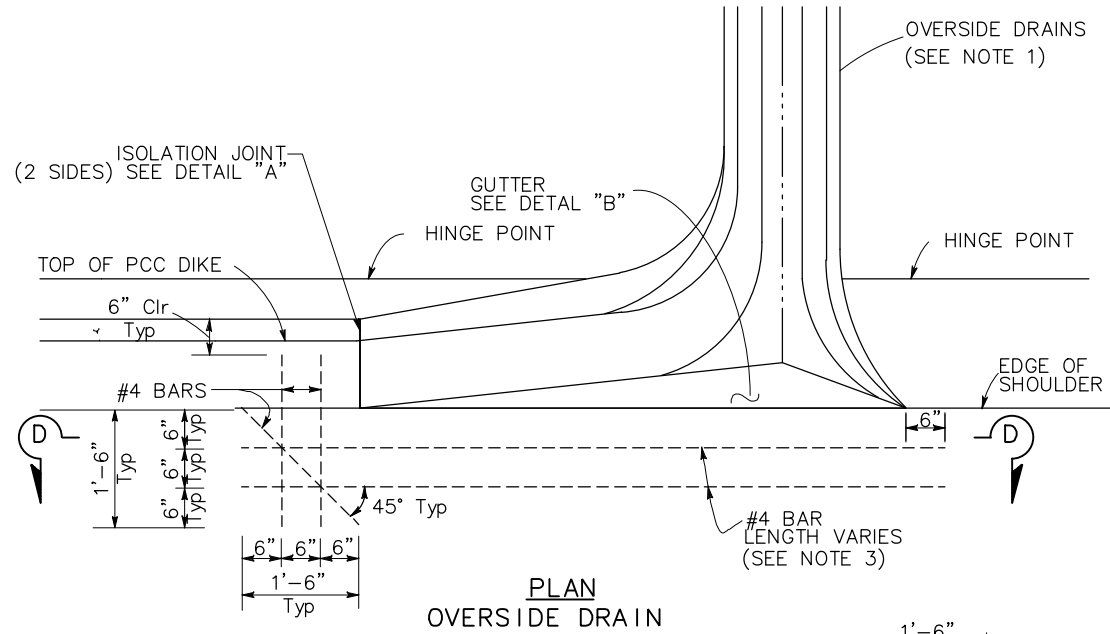
Vincent Guardian 04/14/23
 REGISTERED CIVIL ENGINEER DATE
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.
 MARK THOMAS 701 UNIVERSITY AVENUE SUITE 200 SACRAMENTO, CA 95825
 CITY OF TRACY 333 CIVIC CENTER PLZ TRACY, CA 95376

NOTES:

- REFER TO DRAINAGE SHEETS FOR LOCATION OF OVERSIDE DRAINS AND PIPE DOWNDRAINS.
- TERMINATE PAVEMENT STEEL REINFORCEMENT 2" CLEAR FROM ALL OUTSIDE EDGES OF ISOLATION JOINT.
- FOR DETAILS NOT SHOWN SEE STD PLAN D87A AND D87D.
- CUTOFF WALLS ARE TO BE PLACED AT THE BEGINNING (LOCATION A), EVERY 10', AND AT THE END OF OVERSIDE DRAIN.



CONCRETE OVERSIDE DRAIN LOCATIONS			
DRAINAGE SYSTEM NO.	UNIT	DESCRIPTION STATION AND OFFSET	X LF
2	a	88.19' Lt "I-580" 64+95+92	32'
3	a	88.29' Lt "I-580" 70+03.74	30'
5	a	24.60' Lt "PPR1" 75+73.52	10'
6	a	47.39' Lt "PPR1" 81+91.41	1'
7	a	44.93' Lt "PPR1" 82+80.00	10'
8	a	44.07' Lt "PPR1" 85+12.42	34'
11	a	22.00' Rt "PPR3" 82+13.90	7'
12	a	23.76' Rt "PPR3" 85+15.18	22'
13	a	4.00' Rt "PPR1" 86+55.47	25'
14	a	3.82' Rt "PPR1" 89+51.27	41'
25	a	40.00' Lt "PPR2" 100+29.37	31'
27	a	32.29' Lt "PPR2" 103+88.70	67'
29	a	89.06' Lt "I-580" 105+66.93	51'



PAVEMENT REINFORCEMENT DETAILS AT OVERSIDE DRAIN AND PIPE DOWNDRAIN

4 ADDED PER ADDENDUM No. 4 DATED MARCH 25, 2024 DRAINAGE DETAILS MINOR CONCRETE (Misc CONSTRUCTION) OVERSIDE DRAIN NO SCALE

FINAL SUBMITTAL

DD-4a

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT FUNCTIONAL SUPERVISOR: STEVEN B. BURICK
 CALCULATED/DESIGNED BY: [Blank]
 CHECKED BY: [Blank]
 REVISED BY: [Blank] DATE REVISED: [Blank]

USERNAME => DGN FILE =>

RELATIVE BORDER SCALE IS IN INCHES



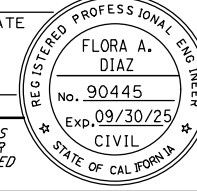
UNIT 0000

PROJECT NUMBER & PHASE

1015000011

LAST REVISION DATE PLOTTED => 00-00-00 TIME PLOTTED =>

DRAINAGE SHEET NO.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	STRUCTURAL CONCRETE, BOX CULVERT	STRUCTURAL CONCRETE, MODIFIED BOX CULVERT	STRUCTURAL CONCRETE, HEADWALL	STRUCTURAL CONCRETE, DRAINAGE INLET	Misc IRON AND STEEL	18" CORRUGATED STEEL PIPE RISER (.064" THICK)	REINFORCED CONCRETE PIPE	18" PLASTIC PIPE DOWNDRAIN	FLUME ANCHOR ASSEMBLY	18" CONCRETE FLARED END SECTION	24" CONCRETE FLARED END SECTION	REMOVE OVERSIDE DRAIN	REMOVE CULVERT	REMOVE DOWNDRAIN	RELOCATE PIPE	REMOVE HEADWALL	REMOVE CONCRETE FLARED END SECTION	REMOVE INLET	ROCK SLOPE PROTECTION (20 lb, CLASS 1, METHOD B)	GRAVEL FILTER	MINOR CONCRETE (Misc Const)	PLACE HOT MIX ASPHALT (Misc AREA)	HOT MIX ASPHALT (TYPE A)	DRAINAGE INLET MARKER	24-12X GRATE	24-12 GRATE	CONCRETE COLLAR	HEIGHT OF INLET	HEIGHT OF COVER	DESCRIPTION	STATION					
			CY	CY	CY	CY	LB	LF	LF	LF	EA	EA	EA	EA	LF	EA	EA	EA	EA	EA	EA	CY	CY	CY	SY	TON	EA	EA	EA	EA	LF	LF						
13	a						23.9															0.7												Conc OSD				
14	a					5.3	239															1					1	1		10	8			Conc OSD				
	b								33.3																									G4 DI, GRATE TYPE 24-12X	"PPR" 53+13.26 26.84' Lt			
	c					6.2	239																				1	1		12	10			24" RCP				
	d								100.5																										G4 DI, GRATE TYPE 24-12X	"PPR" 52+88.24 40.21' Lt		
	e																																		24" RCP			
	f																																		G4 DI, GRATE TYPE 24-12X	"PPR" 53+94.45 87.25' Lt		
	g																																		24" RCP			
	h																									1	1		13.5	11.5					G2 DI, GRATE TYPE 24-12X	"PPR" 52+88.48 68.47' Lt		
	i																																		24" RCP			
	j																					1.3	1.2												24" Conc FES	"PPR" 52.86.81 95.36' Lt		
	k																																		RSP			
	l																																		G4 DI, GRATE TYPE 24-12X	"PPR" 55+99.90 56.06' Lt		
	m																																			24" RCP		
	n																																			G4 DI, GRATE TYPE 24-12X	"PPR" 56+03.36 17.17' Rt	
	o																																			24" RCP		
	p																																			G4 DI, GRATE TYPE 24-12X	"PPR" 53+57 24.22' Rt	
	q																																			18" RCP		
	r																																			G4 DI, GRATE TYPE 24-12X	"PPR" 53+17.47 46.00' Rt	
	s																																			G4 DI, GRATE TYPE 24-12X	"PPR" 54+28.83 52.75' Rt	
	t																																			24" RCP		
	u																																			24" RCP		
	v																																			G4 DI, GRATE TYPE 24-12X	"PPR" 53+93.90 72.93' Rt	
	w																																			18" RCP		
	x																																			G2 DI, GRATE TYPE 24-12X	"PPR" 52+56.70 122.50' Rt	
	y																																			24" RCP		
	z																																			24" Conc FES	"PPR" 53+30.09 148.22' Rt	
	aa																																			RSP		
	ab																																			G2 DI	"PPR2" 94+49.16 14.45' Rt	
	ac																																			24" RCP		
	ad																																			G2 DI	"PPR2" 95+02.85 42.53' Lt	
	ae																																			24" RCP		
	af																																			RSP		
	ag																																			24" Conc FES	"PPR2" 96+75.61 95.51' Lt	
	ah																																			24" RCP		
	ai																																			G2 DI	"PPR2" 96+57.02 42.51' Lt	
	aj																																			24" RCP		
	ak																																				REMOVE DI	"PPR2" 96+61.18 9.61' Lt
	al																																			RSP		
	am																																			24" Conc FES	"PPR" 51+56.04 191.49' Lt	
	an																																			24" RCP		
	ao																																			G2 DI, GRATE TYPE 24-12X	"PPR" 51+55.08 59.54' Rt	
	ap																																			24" RCP		
	aq																																			G2 DI, GRATE TYPE 24-12X	"PPR" 52+01.18 59.83' Lt	
	ar																																					
	as																																			DQ-2 TOTAL		

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	101	322
		04/14/23 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.					
MARK THOMAS 701 UNIVERSITY AVENUE SUITE 200 SACRAMENTO, CA 95825			CITY OF TRACY 333 CIVIC CENTER PLZ TRACY, CA 95376		

4 REPLACED PER ADDENDUM No. 4 DATED MARCH 25, 2024

FINAL SUBMITTAL

DRAINAGE QUANTITIES DQ-2

DRAINAGE QUANTITIES

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	102	322

Flora Diaz 04/14/23
 REGISTERED CIVIL ENGINEER DATE

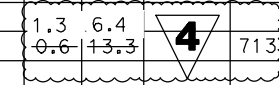
REGISTERED PROFESSIONAL ENGINEER
 FLORA A. DIAZ
 No. 90445
 Exp. 09/30/25
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE _____

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MARK THOMAS 701 UNIVERSITY AVENUE SUITE 200 SACRAMENTO, CA 95825	CITY OF TRACY 333 CIVIC CENTER PLZ TRACY, CA 95376
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DRAINAGE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	REINFORCED CONCRETE PIPE				18" PLASTIC PIPE DOWNDRAIN	FLUME ANCHOR ASSEMBLY	18" CONCRETE FLARED END SECTION	24" CONCRETE FLARED END SECTION	REMOVE OVERSIDE DRAIN	REMOVE CULVERT	REMOVE DOWNDRAIN	RELOCATE PIPE	REMOVE HEADWALL	REMOVE CONCRETE FLARED END SECTION	REMOVE INLET	ROCK SLOPE PROTECTION (20 lb, CLASS I, METHOD B)	GRAVEL FILTER	MINOR CONCRETE (Misc Const)	PLACE HOT MIX ASPHALT (Misc AREA)	HOT MIX ASPHALT (TYPE A)	DRAINAGE INLET MARKER	(N)	(N)	(N)	(N)	(N)	DESCRIPTION	STATION	
			18"	24"	30"	78"																		EA	EA	EA	EA	EA			EA
20	D-5	a																					1	1				G2 DI, GRATE TYPE 24-12X	"PPR" 48+70.82 59.22' Lt		
		b																										24" RCP			
		c																										24" RCP			
		d																							1	1			G4 DI, GRATE TYPE 24-12X	"PPR" 47+91.64 48.99' Lt	
		e																											G4 DI, GRATE TYPE 24-12X	"PPR" 48+47.65 48.08' Rt	
		f																											24" RCP		
		g																							1	1			G2 DI, GRATE TYPE 24-12X	"PPR" 48+96.50 84.31' Rt	
		h																											24" RCP		
		i																												PIPE TO Chnl STRUCTURE	"PPR" 48+49.89 176.56' Rt
		j																												Conc Chnl	
		k																							1.3	1.2				RSP	
		21	D-5	a																											G4 DI, GRATE TYPE 24-12X
b																												24" RCP			
c																													G4 DI, GRATE TYPE 24-12X	"PPR" 47+91.81 12.45' Lt	
d																													24" RCP		
e																													24" RCP		
f																													G2 DI, GRATE TYPE 24-12X	"PPR" 46+00.63 51.90' Rt	
g																													24" RCP		
h																													G4 DI, GRATE TYPE 24-12X	"PPR" 45+47.67 121.54' Rt	
i																									1.3	1.2				RSP	
j																														24" Conc FES	"PPR" 45+41.69 186.71' Rt
k																														24" RCP	
l																														G2 DI, GRATE TYPE 24-12X	"PPR" 45+91.03 22.04' Lt
22	D-5	m																											24" RCP		
		n																											G4 DI, GRATE TYPE 24-12X	"PPR" 46+01.06 18.12' Rt	
		a																										REMOVE DI			
		b																											G2 DI	"PPR4" 93+16.24 42.55' Rt	
		c																											18" RCP		
		d																											G2 DI	"PPR4" 95+38.55 42.55' Rt	
		e																											18" RCP		
		f																											G2 DI	"PPR4" 96+94.53 42.55' Rt	
		g																											18" RCP		
		h																												G4 DI, GRATE TYPE 24-12X	"PPR" 44+53.28 18.03' Lt
		i																												18" RCP	
		23	D-5	j																											REMOVE DI
k																													HMA OSD		
l																															
m																														G2 DI	"PPR4" 98+82.51 42.53' Rt
n																														18" RCP	
a																													G2 DI	"PPR4" 100+99.93 42.53' Rt	
b																														18" RCP	
c																														G2 DI	"PPR4" 103+19.63 40.61' Rt
d																														18" RCP	
e																														G2 DI	"PPR4" 104+66.23 42.37' Rt
f																														REMOVE DOWNDRAIN	
g																															
DQ-3 TOTAL			0.0	0.6	13.3	55.9	4911	0.0	1290.4	697.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.7	2.4	7.9	24.7	3.3	11.0	11.0	7.0	0.0



4 REPLACED PER ADDENDUM No. 4 DATED MARCH 25, 2024

FINAL SUBMITTAL

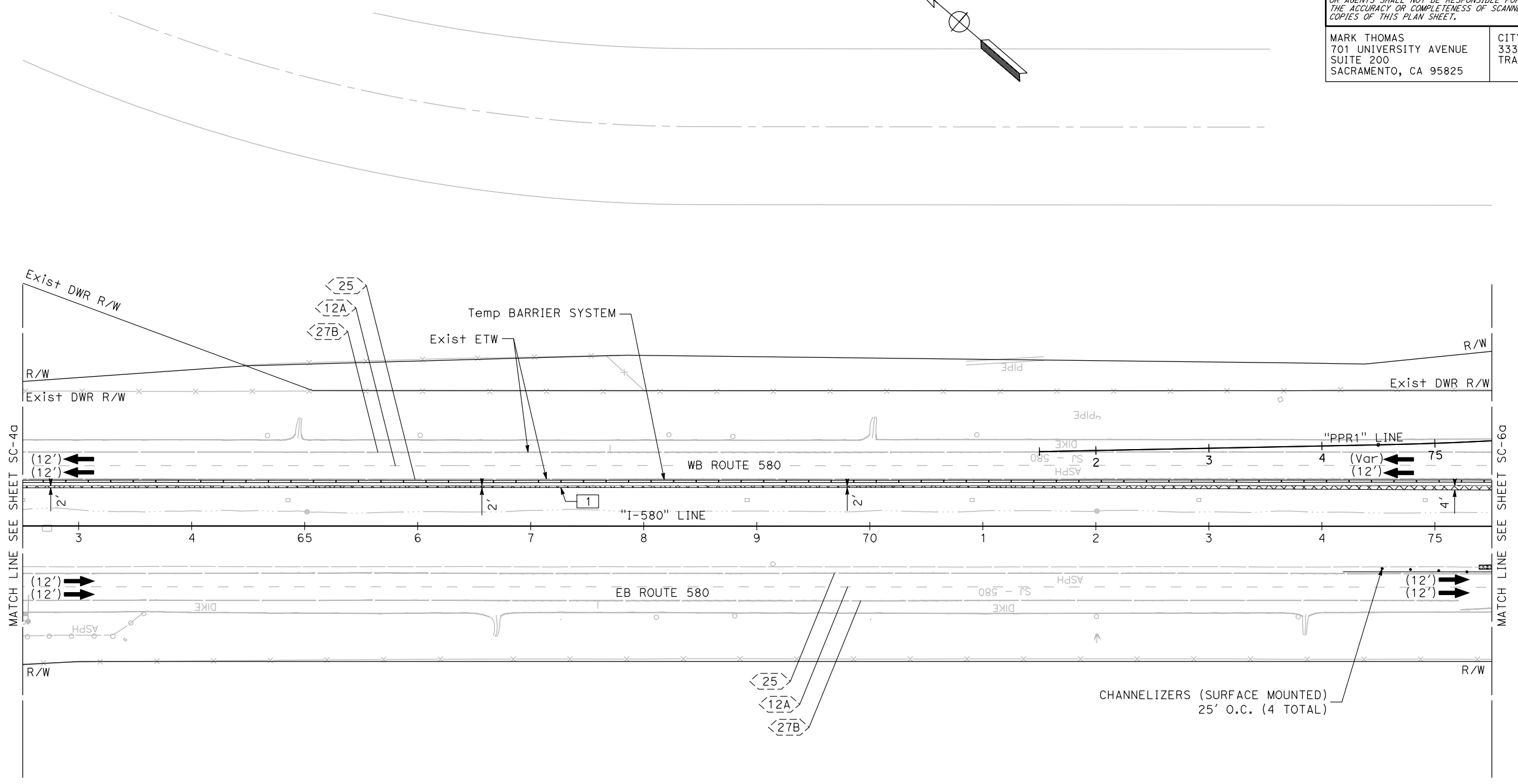
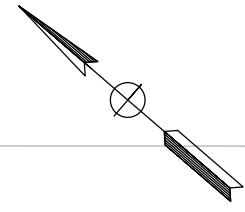
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NO SCALE **DQ-3**

LAST REVISION DATE PLOTTED => 25-Mar-24 00-00-00 TIME PLOTTED => 08:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	---	322
			04/14/23		
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
MARK THOMAS 701 UNIVERSITY AVENUE SUITE 200 SACRAMENTO, CA 95825			CITY OF TRACY 333 CIVIC CENTER PLZ TRACY, CA 95376		

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR MAINLINE, RAMP, AND PRIVATE ROAD ALIGNMENT INFORMATION, SEE THE LAYOUT SHEETS



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR BY
	STEVEN B. BURICK	N. LEEHACHAROENKUL	C. WILLIAMS
	CHECKED BY	DATE	REVISOR DATE

4 ADDED PER ADDENDUM No. 4 DATED MARCH 25, 2024

**STAGE 1A
STAGE CONSTRUCTION AND
TRAFFIC HANDLING PLAN**

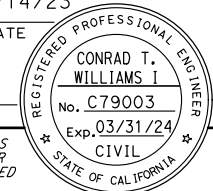
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FINAL SUBMITTAL

SC-5a

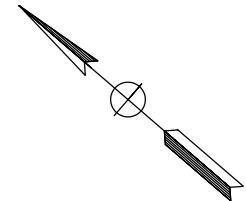
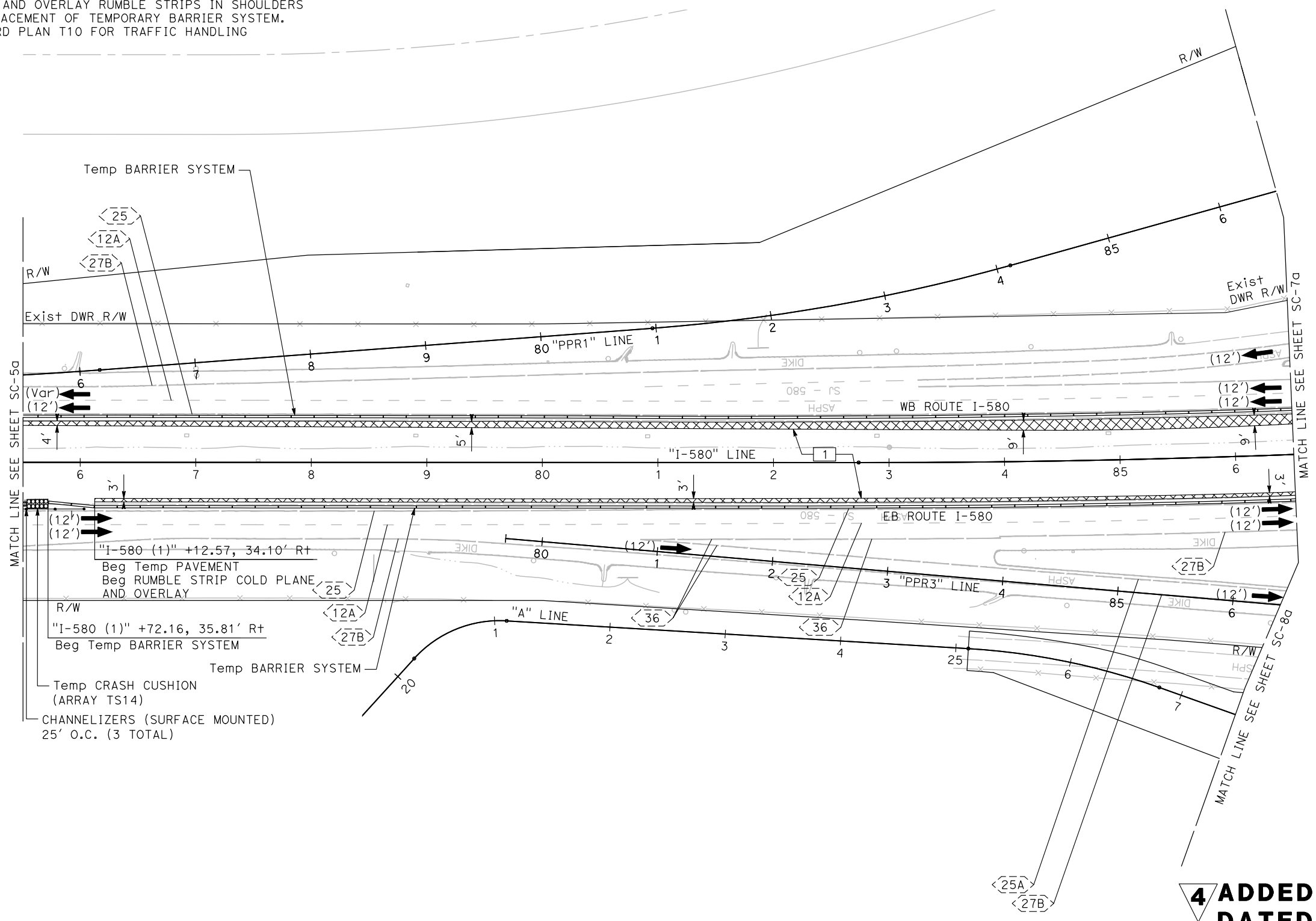
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	---	322
			04/14/23		
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
MARK THOMAS 701 UNIVERSITY AVENUE SUITE 200 SACRAMENTO, CA 95825			CITY OF TRACY 333 CIVIC CENTER PLZ TRACY, CA 95376		



NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR MAINLINE, RAMP, AND PRIVATE ROAD ALIGNMENT INFORMATION, SEE THE LAYOUT SHEETS
3. COLD PLANE AND OVERLAY RUMBLE STRIPS IN SHOULDERS PRIOR TO PLACEMENT OF TEMPORARY BARRIER SYSTEM. SEE STANDARD PLAN T10 FOR TRAFFIC HANDLING DETAILS.



4 ADDED PER ADDENDUM No. 4 DATED MARCH 25, 2024

**STAGE 1A
STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN**

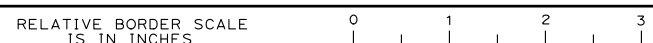
SCALE: 1"=50'

FINAL SUBMITTAL

SC-6a

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR BY
Caltrans	STEVEN B. BURICK	N. LEEHACHAROENKUL	C. WILLIAMS

USERNAME => JLuczon
DGN FILE => I-580_SC-6a.dwg



UNIT 0000 PROJECT NUMBER & PHASE 1015000011

BORDER LAST REVISED 7/2/2010

LAST REVISION DATE PLOTTED => 26-Mar-24
00-00-00 TIME PLOTTED => 08:54

NOTES:

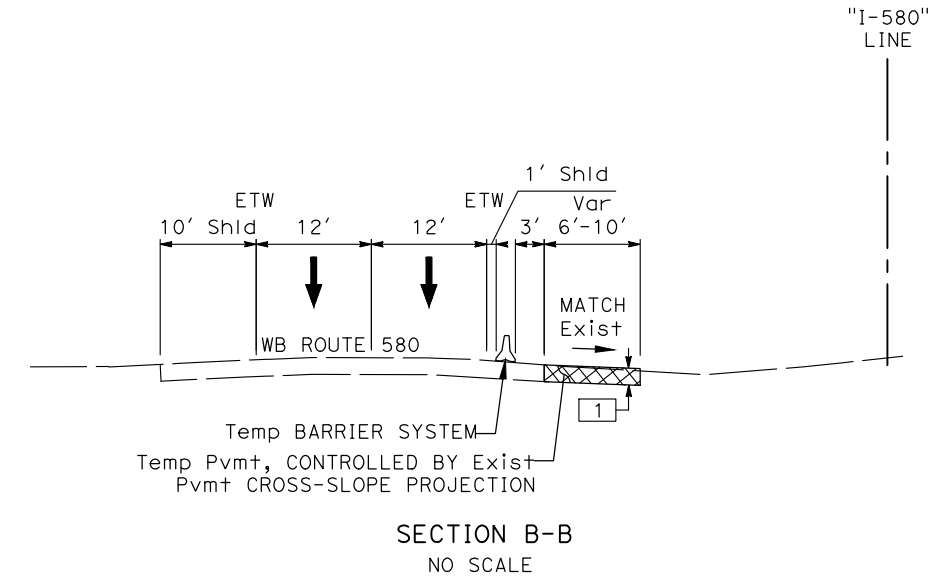
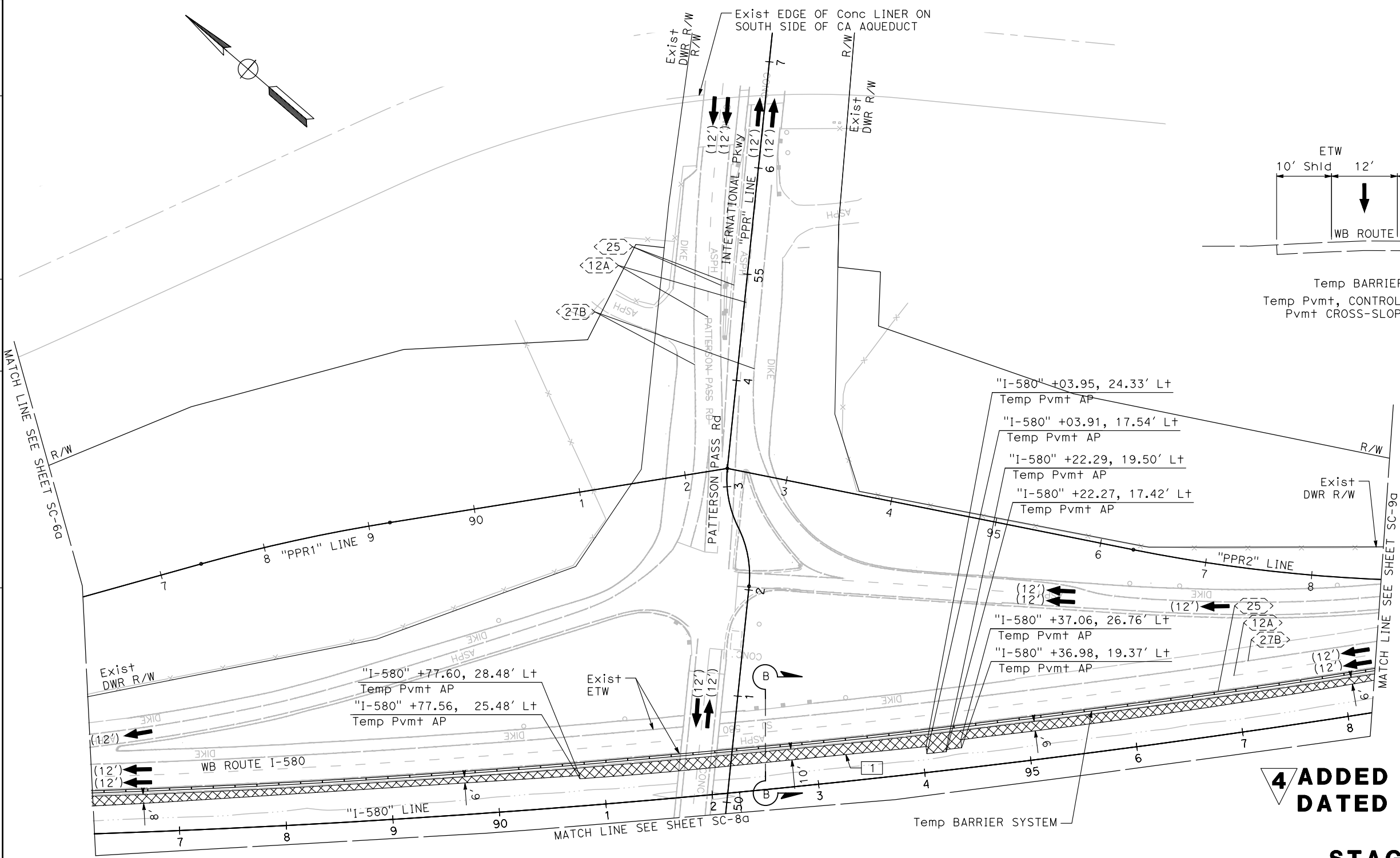
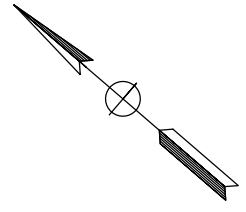
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR MAINLINE, RAMP, AND PRIVATE ROAD ALIGNMENT INFORMATION, SEE THE LAYOUT SHEETS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	----	322

04/14/23
 REGISTERED CIVIL ENGINEER DATE
 CONRAD T. WILLIAMS I
 No. C79003
 Exp. 03/31/24
 CIVIL
 STATE OF CALIFORNIA

MARK THOMAS
 701 UNIVERSITY AVENUE
 SUITE 200
 SACRAMENTO, CA 95825

CITY OF TRACY
 333 CIVIC CENTER PLZ
 TRACY, CA 95376



4 ADDED PER ADDENDUM No. 4 DATED MARCH 25, 2024


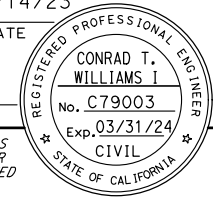
**STAGE 1A
STAGE CONSTRUCTION AND
TRAFFIC HANDLING PLAN**

SCALE: 1"=50'

FINAL SUBMITTAL

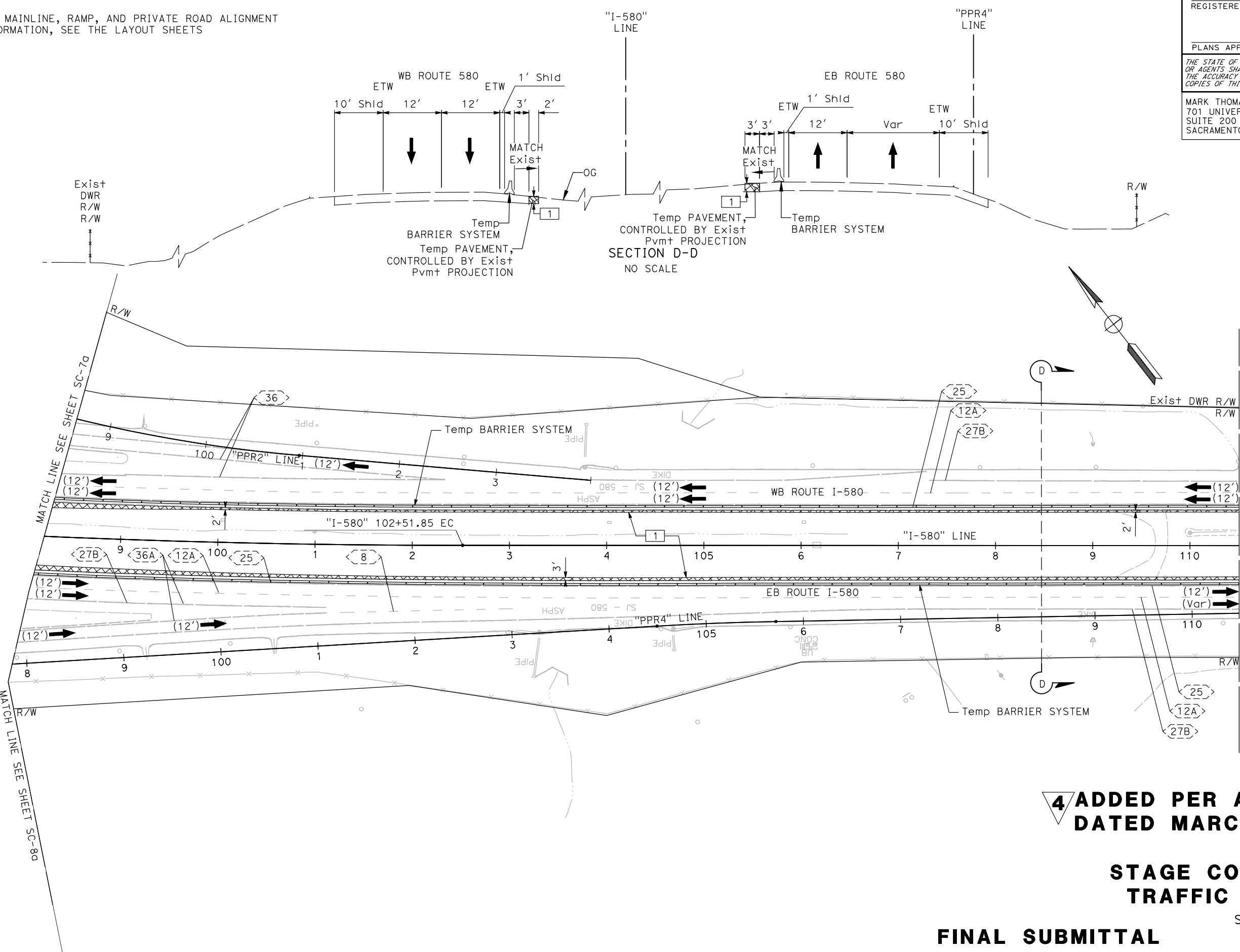
SC-7a

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR
Caltrans	STEVEN B. BURICK	DESIGNED BY	N. LEEHACHAROENKUL
		CHECKED BY	C. WILLIAMS
			DATE REVISOR

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	---	322
			04/14/23		
REGISTERED CIVIL ENGINEER			DATE		
					
PLANS APPROVAL DATE					
<small>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.</small>					
MARK THOMAS 701 UNIVERSITY AVENUE SUITE 200 SACRAMENTO, CA 95825			CITY OF TRACY 333 CIVIC CENTER PLZ TRACY, CA 95376		

NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- FOR MAINLINE, RAMP, AND PRIVATE ROAD ALIGNMENT INFORMATION, SEE THE LAYOUT SHEETS




**4 ADDED PER ADDENDUM No. 4
DATED MARCH 25, 2024**

**STAGE 1A
STAGE CONSTRUCTION AND
TRAFFIC HANDLING PLAN**

SCALE: 1"=50'

FINAL SUBMITTAL

SC-9a

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	DATE
	N. LEEHACHAROENKUL	
CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	
STEVEN B. BURICK	C. WILLIAMS	
CALCULATED-DESIGNED BY	REVISOR	DATE

LAST REVISION DATE PLOTTED => 26-Mgr-24
 00-00-00 TIME PLOTTED => 08:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	---	322

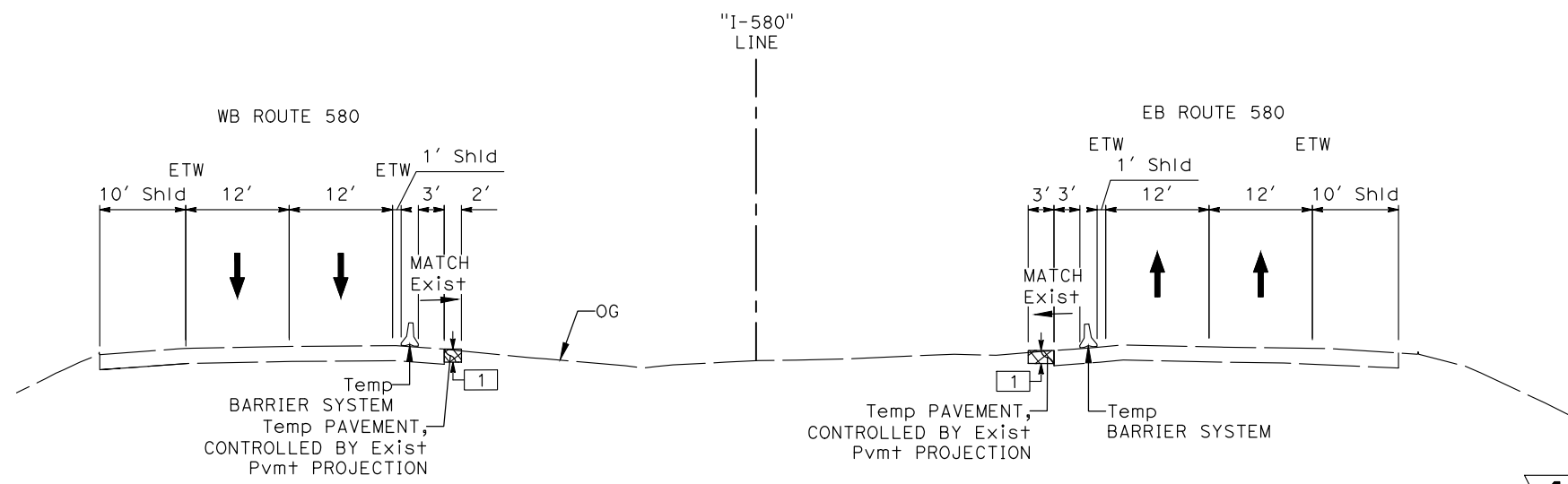
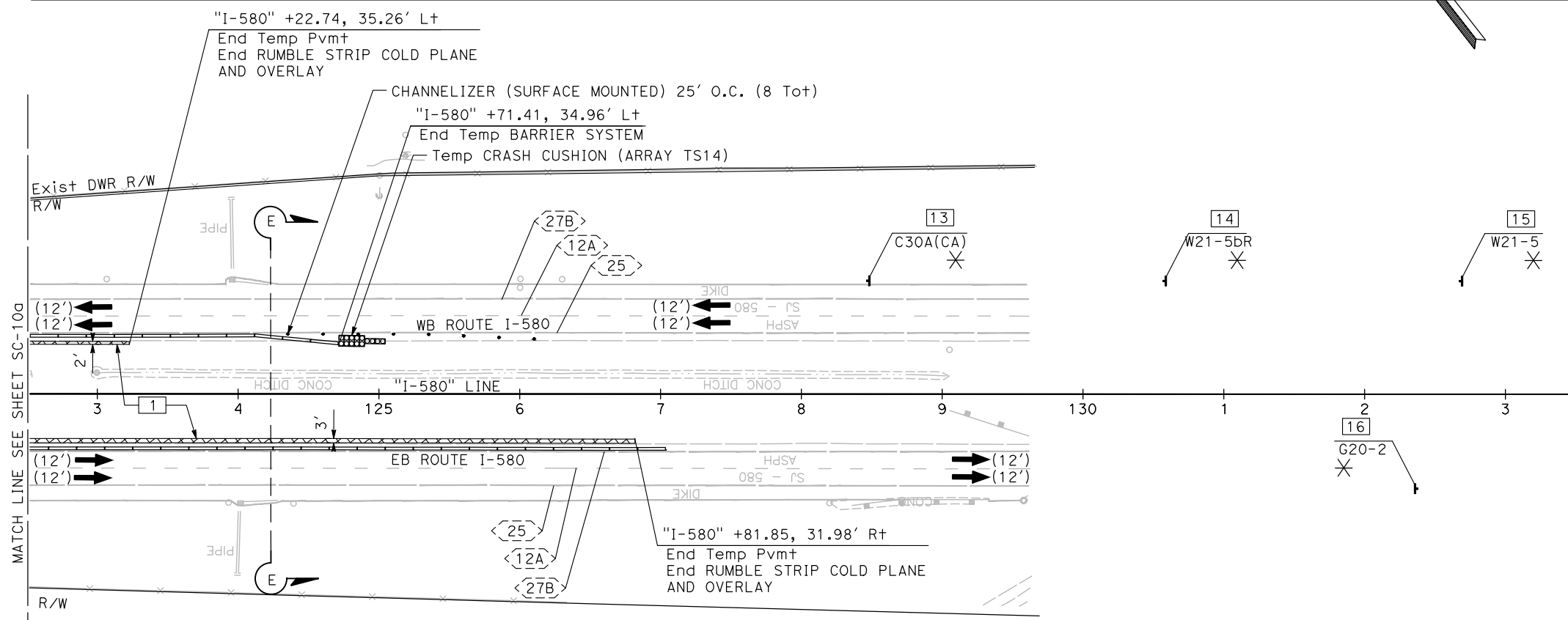
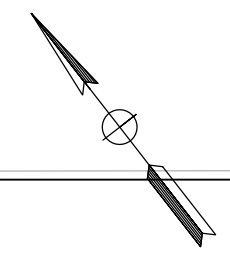
04/14/23
 REGISTERED CIVIL ENGINEER DATE
 CONRAD T. WILLIAMS I
 No. C79003
 Exp. 03/31/24
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE
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MARK THOMAS 701 UNIVERSITY AVENUE SUITE 200 SACRAMENTO, CA 95825	CITY OF TRACY 333 CIVIC CENTER PLZ TRACY, CA 95376
---	--

NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- FOR MAINLINE, RAMP, AND PRIVATE ROAD ALIGNMENT INFORMATION, SEE THE LAYOUT SHEETS



4 ADDED PER ADDENDUM No. 4 DATED MARCH 25, 2024

**STAGE 1A
STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN**

SCALE: 1"=50'

FINAL SUBMITTAL

SC-11a

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 EtCaltrans®
 CONSULTANT SUPERVISOR: STEVEN B. BURICK
 CALCULATED/DESIGNED BY: N. LEEHACHAROENKUL
 CHECKED BY: C. WILLIAMS
 REVISED BY: DATE
 REVISIONS:

LAST REVISION: DATE PLOTTED => 26-Mgr-24
 00-00-00 TIME PLOTTED => 08:55

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT SUPERVISOR: STEVEN B. BURICK
 CALCULATED/DESIGNED BY: N. LEEHACHAROENKUL
 CHECKED BY: C. WILLIAMS
 REVISED BY: DATE
 DATE REVISED

NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- TRAFFIC HANDLING PLANS DO NOT SHOW ALL WORK REQUIRED TO BE COMPLETED. WORK NOT NECESSARY FOR TRAFFIC HANDLING MAY BE COMPLETED AT ANY TIME AND IS NOT SHOWN.
- FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE CONSTRUCTION AREA SIGNS PLAN AND DETOUR PLANS.
- TEMPORARY RAILING (TYPE K) FLARE SHALL BE AT 10:1 OR FLATTER.
- ALL STATIONING OFFSETS TO TEMPORARY RAILINGS (TYPE K) CORRESPOND TO INSIDE EDGE OF RAILING.
- ALL TEMPORARY STRIPING AND TEMPORARY PAVEMENT MARKINGS SHALL BE PAINT UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL REMOVE ANY EXISTING CONFLICTING PAVEMENT DELINEATION.
- FOR FINAL PAVEMENT DELINEATION, SEE PD SHEETS.
- EXACT LOCATION AND POSITION OF CONSTRUCTION SIGNS SHALL BE SET BY THE RESIDENT ENGINEER AND APPROVED BY STATE OVERSIGHT ENGINEER.
- ALL SIGN CODES ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA SIGN CODES.
- CONTRACTOR SHALL REMOVE OR COVER EXISTING SIGNS WHICH CONFLICT WITH TRAFFIC HANDLING PLANS.
- FOR MAINLINE, RAMP, AND PRIVATE ROAD ALIGNMENT, SEE LAYOUT SHEETS.
- WORK ZONE SPEED REDUCTION SIGNS MUST BE PLACED PER REVISED STANDARD PLANS T18 AND T20.
- A SEVEN (7) DAY ADVANCE NOTIFICATION IS REQUIRED PRIOR TO STARTING WORK WITHIN THE DEPARTMENT OF WATER RESOURCES RIGHT-OF-WAY. CONTACT THE DEPARTMENT OF WATER RESOURCES, DIVISION OF ENGINEERING, ENCROACHMENT PERMIT SECTION, SACRAMENTO, CALIFORNIA AT (800) 600-4397. THE DWR DELTA FIELD DIVISION SHALL BE SIMULTANEOUSLY NOTIFIED AT (209) 833-2180 BY THE PERMIT HOLDER. MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT IN PLACE ALL SWP FACILITIES AND APPURTENANCES, INCLUDING BUT NOT LIMITED TO COMMUNICATION AND CONTROL CABLES AND CATHODIC PROTECTION TEST STATIONS. THE PERMITEE AND CONTRACTOR WILL BE LIABLE FOR ALL DAMAGES TO SWP FACILITIES AND APPURTENANCES AS A RESULT OF THE CONSTRUCTION AND FOR ANY OTHER DAMAGES OR LOSSES SUFFERED BY DEPARTMENT OR ITS WATER CONTRACTORS, INCLUDING POWER, IRRIGATION, MUNICIPAL AND INDUSTRIAL WATER SUPPLY, AND COMMUNICATION LOSSES.
- ALL TRENCH EXCAVATION SHALL COMPLY WITH THE MOST CURRENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARDS. TRENCH BACKFILL SHALL BE PLACED IN NO GREATER THAN 4-INCH LIFTS IF HAND COMPACTED OR NO GREATER THAN 8-INCH LIFTS IF POWER COMPACTED. TRENCH BACKFILL WITHIN DEPARTMENT OF WATER RESOURCES RIGHT-OF-WAY SHALL BE COMPACTED TO 95 PERCENT RELATIVE COMPACTION (ASTM D1557-12).

- COMMUNICATION AND CONTROL CABLES CONNECTED WITH THE OPERATION OF THE STATE WATER PROJECT ARE BURIED ALONG EITHER OR BOTH SIDES OF THE AQUEDUCT/PIPELINE WITHIN DEPARTMENT OF WATER RESOURCES RIGHT-OF-WAY, AS APPROXIMATELY DEPICTED ON THIS PLAN. PRIOR TO ANY EXCAVATION IN THIS AREA, THE CABLE(S) SHALL BE LOCATED AND EXPOSED BY POTHOLING IN THE PRESENCE OF A DEPARTMENT OF WATER RESOURCES FIELD DIVISION REPRESENTATIVE. CALL AT LEAST SEVEN (7) DAYS IN ADVANCE FOR AN APPOINTMENT. ALL EXCAVATIONS WITHIN THREE (3) FEET OF THE CABLE(S) SHALL BE DONE USING HANDHELD TOOLS ONLY.
- PRIOR TO CONSTRUCTION, THE CONDITION OF THE DEPARTMENT'S ROADS, FENCES, AND DEPARTMENT LAND AREAS ADJACENT TO THE PROPOSED PROJECT AREA SHALL BE JOINTLY INSPECTED AND DOCUMENTED BY THE PERMITEE AND DEPARTMENT PERSONNEL. UPON COMPLETION OF THE PROPOSED CONSTRUCTION ACTIVITIES, THE CONDITION OF THESE FEATURES SHALL BE JOINTLY RE-INSPECTED. ALL WASTE MATERIAL, DEBRIS, ETC., SHALL BE REMOVED FROM THE DWR RIGHT OF WAY. THE PERMITEE SHALL BE LIABLE FOR ALL COSTS ASSOCIATED WITH RESTORING THESE FEATURES TO PRE-CONSTRUCTION CONDITIONS.
- THE DEPARTMENT'S ONGOING OPERATIONS AND MAINTENANCE ACTIVITIES SHALL NOT BE DISRUPTED DURING CONSTRUCTION. PERMITEE SHALL MAINTAIN DEPARTMENT ACCESS THROUGH THE WORKSITE AT ALL TIMES.
- STORAGE AND PLACEMENT OF CONSTRUCTION EQUIPMENT AND MATERIALS OVER DWR'S PIPELINE OR WITHIN DWR'S RIGHT OF WAY IS NOT ALLOWED.
- IN THE EVENT OF A SPILL OR OTHER INCIDENT WITHIN DWR'S RIGHT OF WAY, THE DWR DELTA FIELD DIVISION AREA CONTROL CENTER (ACC) NEEDS TO BE CONTACTED IMMEDIATELY AT (209) 833-2180.

LEGEND:

- CONSTRUCTION THIS STAGE
- SHORT TERM WEEKEND CONSTRUCTION
- COLD PLANE AND OVERLAY
- REMOVAL
- TEMPORARY PAVEMENT (HMA TYPE A)
- DIRECTION OF TRAVEL
- LIMIT OF TEMPORARY TRAFFIC STRIPE DETAIL
- CHANNELIZER (SURFACE MOUNTED)
- TEMPORARY BARRIER SYSTEM (TYP)
- Temp CRASH CUSHION
- TEMPORARY TRAFFIC STRIPE DETAIL (PAINT)
- EXISTING TEMPORARY TRAFFIC STRIPE DETAIL
- INSTALL NEW SIGN
- ATCC

ABBREVIATIONS:
 ATCC ALTERNATIVE TEMPORARY CRASH CUSHION (TL-3)

PAVEMENT STRUCTURAL SECTIONS:

- 1 0.75' HMA (TYPE A)
- 1.50' CLASS 2 AB

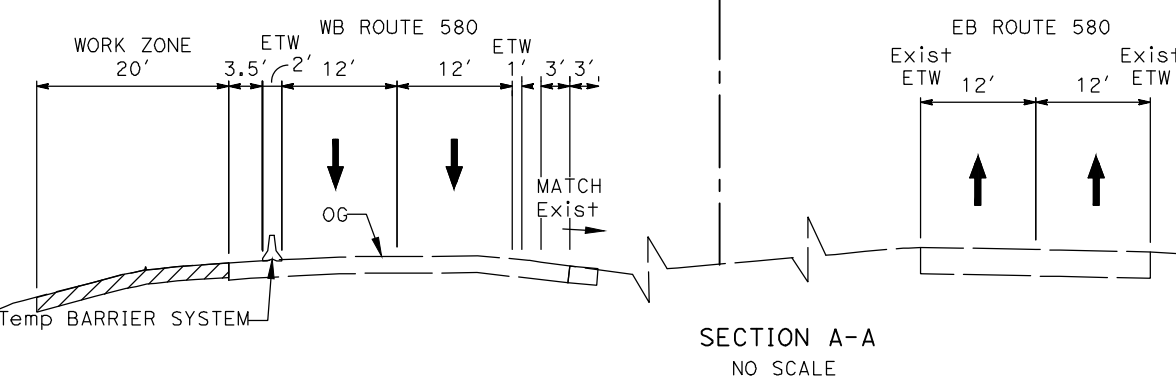
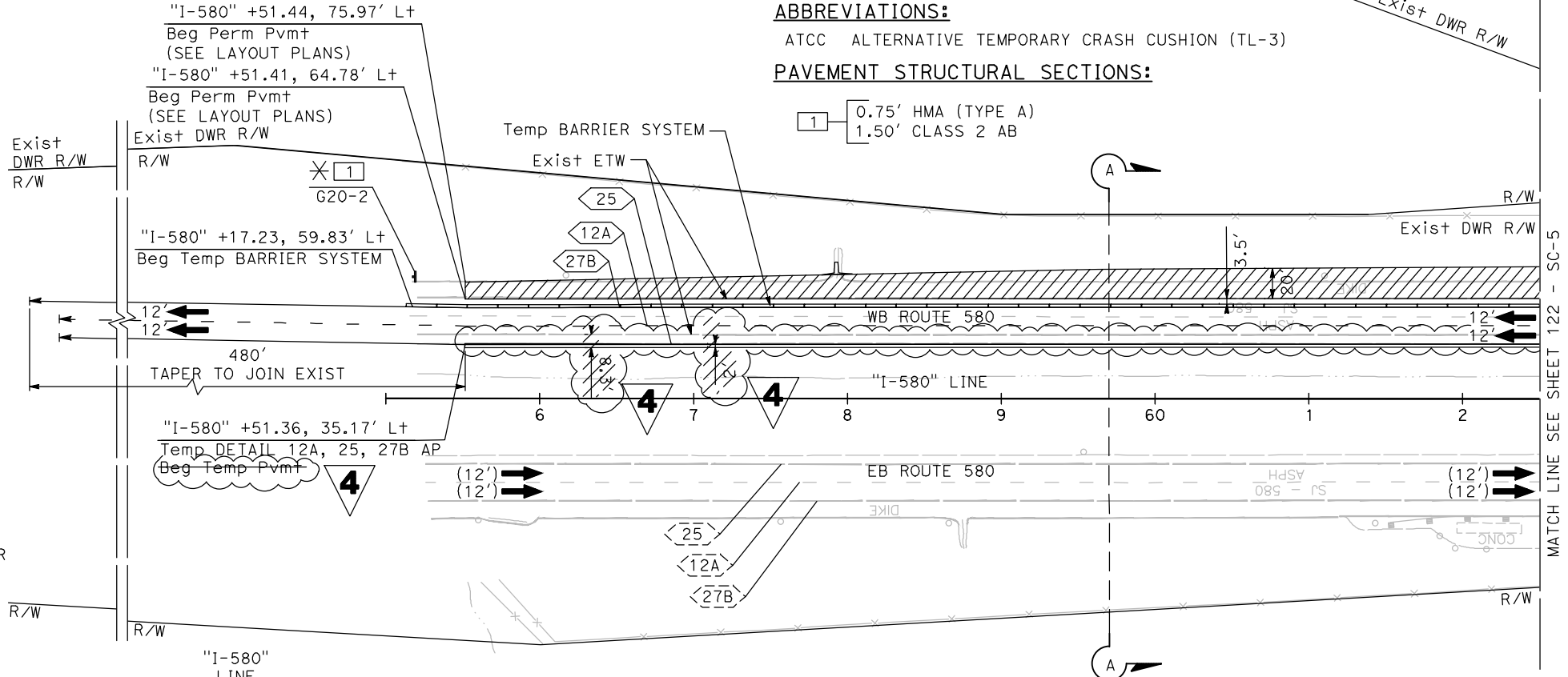
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	121	322

04/14/23
 REGISTERED CIVIL ENGINEER DATE
 CONRAD T. WILLIAMS I
 No. C79003
 Exp. 03/31/24
 CIVIL
 STATE OF CALIFORNIA

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.

MARK THOMAS
 701 UNIVERSITY AVENUE
 SUITE 200
 SACRAMENTO, CA 95825

CITY OF TRACY
 333 CIVIC CENTER PLZ
 TRACY, CA 95376



4 ADDED PER ADDENDUM No. 4 DATED MARCH 25, 2024

STAGE 1B 4

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1"=50'

FINAL SUBMITTAL SC-4

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	122	322

04/14/23
 REGISTERED CIVIL ENGINEER DATE
 CONRAD T. WILLIAMS I
 No. C79003
 Exp. 03/31/24
 CIVIL
 STATE OF CALIFORNIA

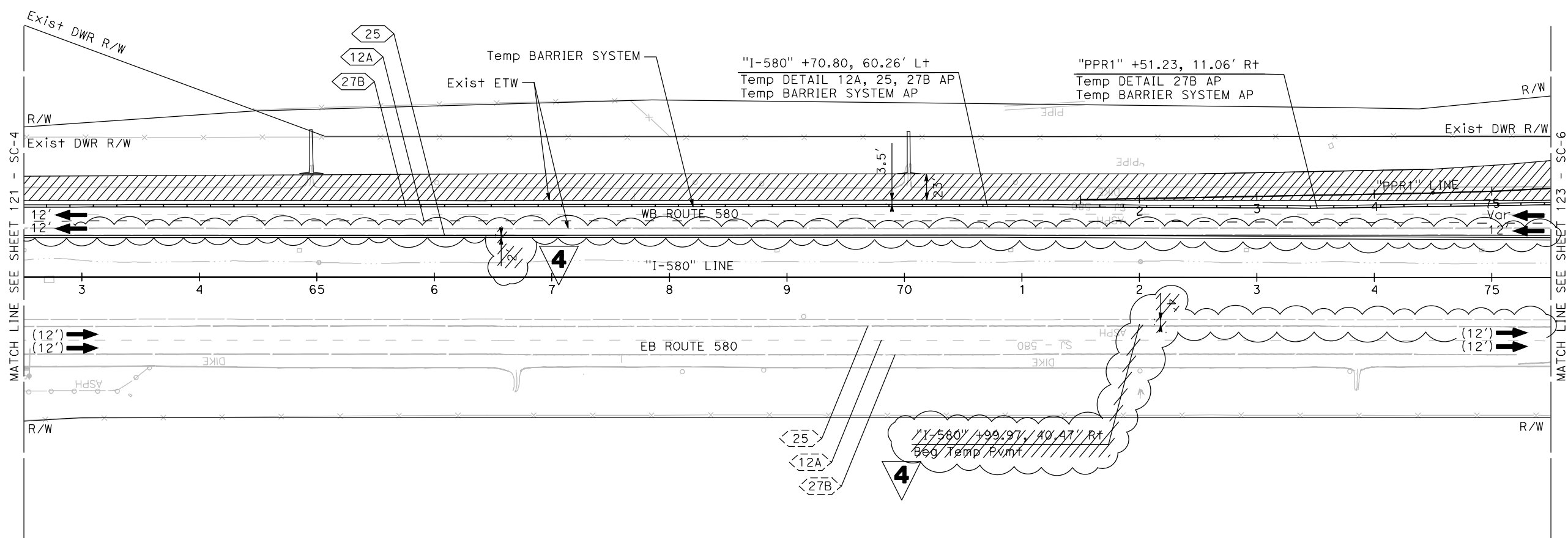
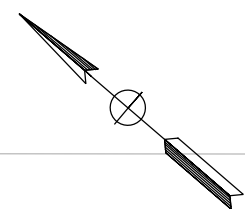
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MARK THOMAS
 701 UNIVERSITY AVENUE
 SUITE 200
 SACRAMENTO, CA 95825

CITY OF TRACY
 333 CIVIC CENTER PLZ
 TRACY, CA 95376

NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- FOR MAINLINE, RAMP, AND PRIVATE ROAD ALIGNMENT INFORMATION, SEE THE LAYOUT SHEETS



4 ADDED PER ADDENDUM No. 4 DATED MARCH 25, 2024

STAGE 1B 4
STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1"=50'

FINAL SUBMITTAL

SC-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans

REVISOR BY DATE


N. LEEHACHAROENKUL
 C. WILLIAMS

CALCULATED BY DESIGNED BY
 CHECKED BY

STEVEN B. BURICK

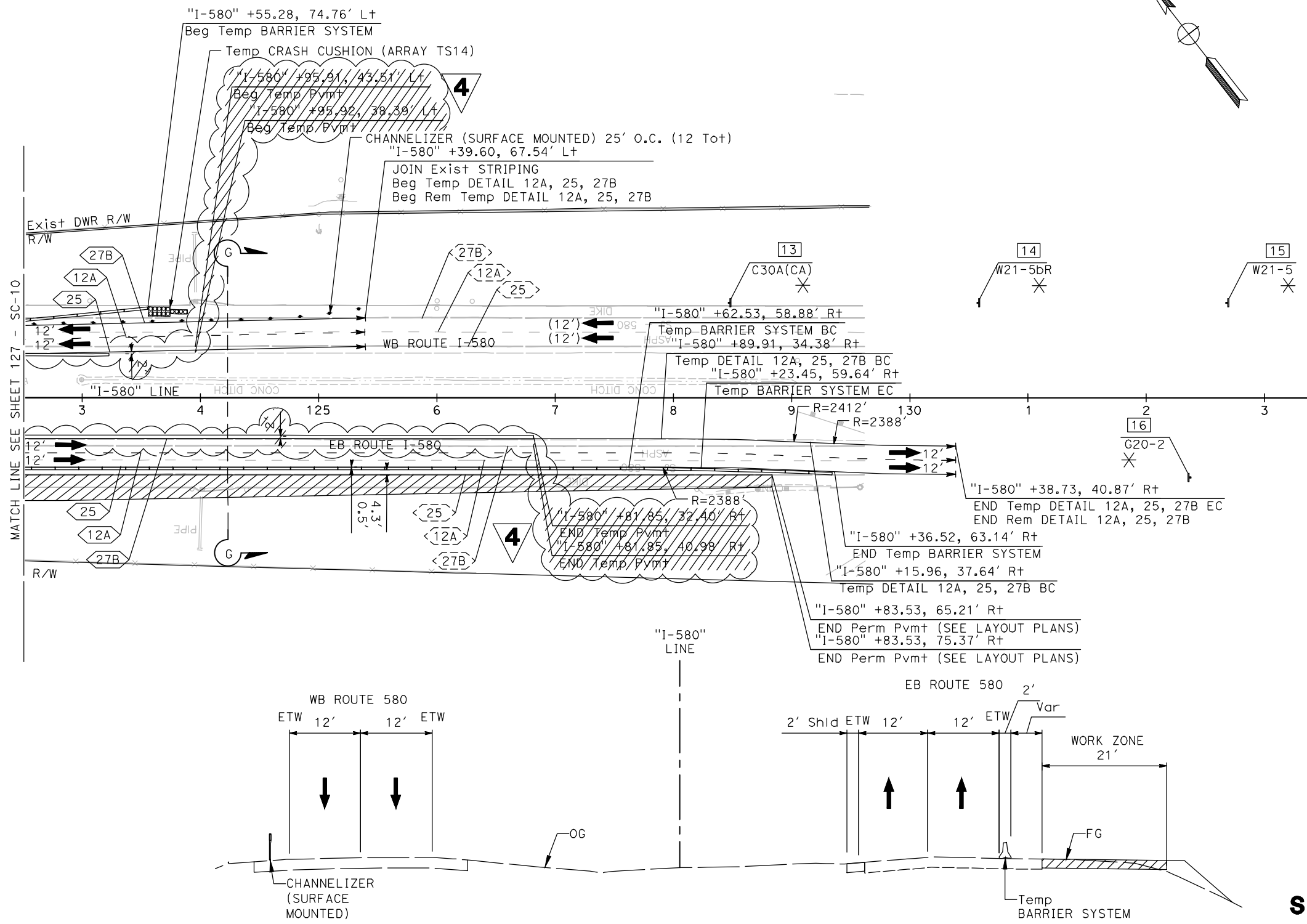
CONSULTANT FUNCTIONAL SUPERVISOR


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	128	322

 REGISTERED CIVIL ENGINEER	04/14/23 DATE
PLANS APPROVAL DATE	
<small>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.</small>	
MARK THOMAS 701 UNIVERSITY AVENUE SUITE 200 SACRAMENTO, CA 95825	CITY OF TRACY 333 CIVIC CENTER PLZ TRACY, CA 95376

NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- FOR MAINLINE, RAMP, AND PRIVATE ROAD ALIGNMENT INFORMATION, SEE THE LAYOUT SHEETS



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR
	STEVEN B. BURICK	CHECKED BY	DATE REVISED
		N. LEEHACHAROENKUL	
		C. WILLIAMS	

4 REPLACED PER ADDENDUM No. 4
 DATED MARCH 25, 2024

SECTION G-G
 NO SCALE


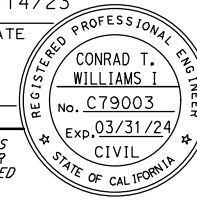
STAGE 1B 4
STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
 SCALE: 1"=50'

FINAL SUBMITTAL

SC-11

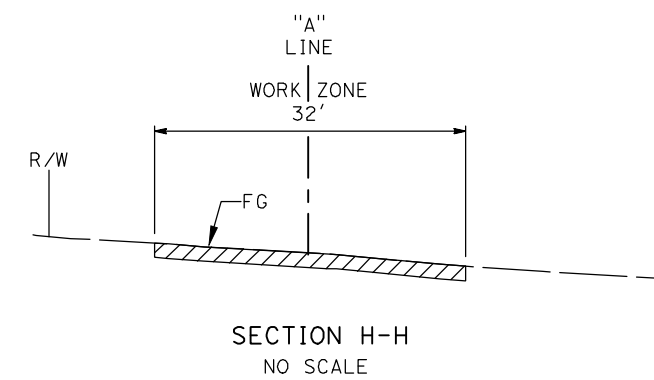
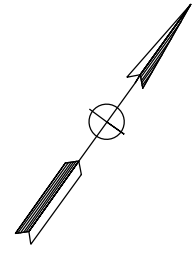
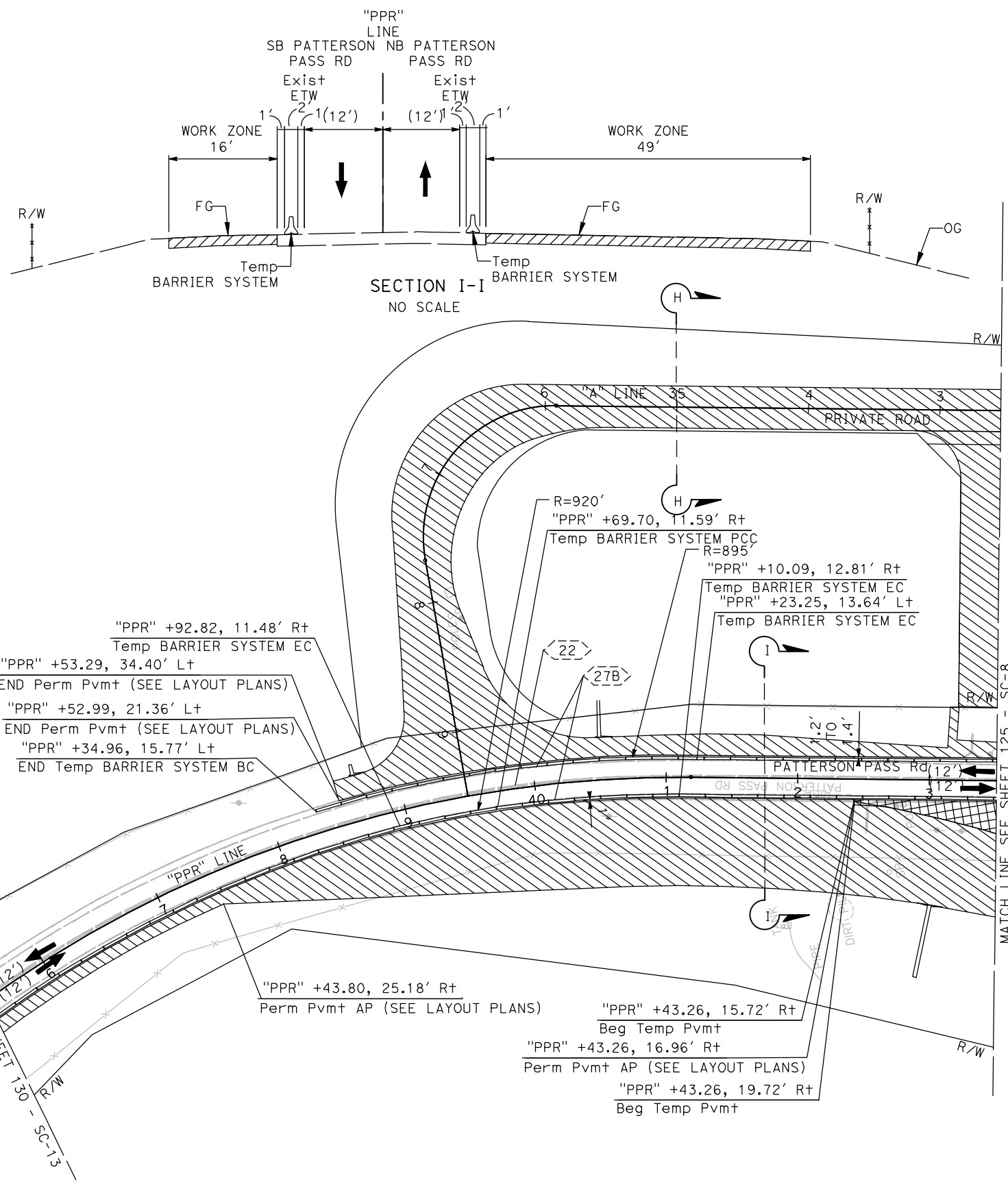
LAST REVISION DATE PLOTTED => 26-Mar-24
 00-00-00 TIME PLOTTED => 12:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	129	322

		04/14/23
REGISTERED CIVIL ENGINEER	DATE	
		
PLANS APPROVAL DATE		
<small>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.</small>		
MARK THOMAS 701 UNIVERSITY AVENUE SUITE 200 SACRAMENTO, CA 95825	CITY OF TRACY 333 CIVIC CENTER PLZ TRACY, CA 95376	

NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- FOR MAINLINE, RAMP, AND PRIVATE ROAD ALIGNMENT INFORMATION, SEE THE LAYOUT SHEETS




STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	REVISOR	DATE
	STEVEN B. BURICK	N. LEEHACHAROENKUL	
	CHECKED BY	DESIGNED BY	
	C. WILLIAMS		

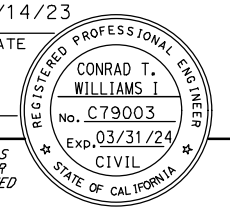
4 ADDED PER ADDENDUM No. 4 DATED MARCH 25, 2024
STAGE 1B 4
STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
 SCALE: 1"=50'

FINAL SUBMITTAL SC-12

LAST REVISION DATE PLOTTED => 26-Mar-24 00-00-00 TIME PLOTTED => 12:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	131	322


 04/14/23
 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.

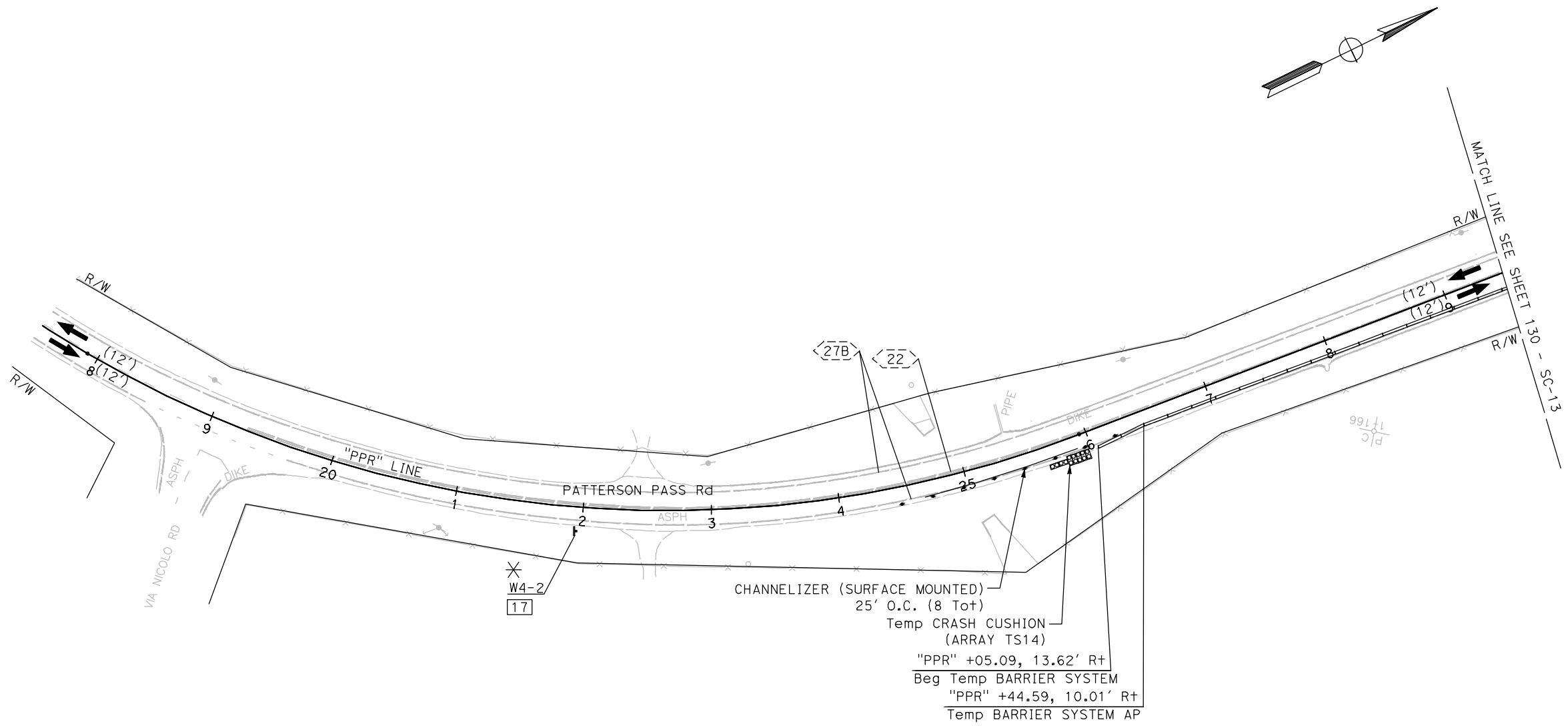


MARK THOMAS
 701 UNIVERSITY AVENUE
 SUITE 200
 SACRAMENTO, CA 95825
 CITY OF TRACY
 333 CIVIC CENTER PLZ
 TRACY, CA 95376

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR MAINLINE, RAMP, AND PRIVATE ROAD ALIGNMENT INFORMATION, SEE THE LAYOUT SHEETS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISED BY
	STEVEN B. BURICK	CHECKED BY	DATE REVISED
		N. LEEHACHAROENKUL	
		C. WILLIAMS	



4 ADDED PER ADDENDUM No. 4
 DATED MARCH 25, 2024


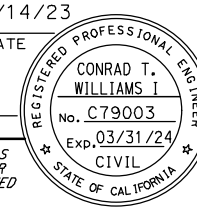
STAGE 1B **4**
STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1"=50'

FINAL SUBMITTAL

SC-14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	152	322

 04/14/23
 REGISTERED CIVIL ENGINEER DATE

 PLANS APPROVAL DATE
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 MARK THOMAS
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 CITY OF TRACY
 333 CIVIC CENTER PLZ
 TRACY, CA 95376

STAGE CONSTRUCTION QUANTITIES

STAGE	SHEET	CHANNELIZERS (SURFACE MOUNTED)	TEMPORARY CRASH CUSHION	ALTERNATIVE TEMPORARY CRASH CUSHION - TL-3	TEMPORARY BARRIER SYSTEM
		EA	TS 14 ARRAY EA	EA	EA
1A	SC- 4A				719
	SC- 5A	4			1300
	SC- 6A	3	14		2179
	SC- 7A				1175
	SC- 8A				1166
	SC- 9A				2459
	SC- 10A				2400
	SC- 11A	8	14		648
SUBTOTAL		15	28	0	12,046
1B	SC- 4				717
	SC- 5				1300
	SC- 6	11	14		293
	SC- 7	36	42		2360
	SC- 8	34	28	1	2123
	SC- 9				1880
	SC- 10	1			2400
	SC- 11	12	14		720
	SC- 12				1300
	SC- 13				800
SC- 14	8	14		140	
SUBTOTAL		102	112	1	14,033
1B	SC- 15				
	SC- 16	38	14		2060
	SC- 17	61	14	1	260
	SC- 18	60			780
	SC- 19	33	14	2	2300
	SC- 20				60
	SC- 21	37		1	320
	SC- 22				820
	SC- 23				960
	SUBTOTAL		229	42	1
	SC- 27	146			
	SC- 28	196			
	SC- 32	70			
SUBTOTAL		412			
TOTAL		758	182	5	33,639

TEMPORARY PAVEMENT QUANTITIES


STAGE	SHEET	HMA (TYPE A)	AB CL 2	TACK COAT	ROADWAY EX	COLD PLANE ASPHALT CONCRETE PAVEMENT
		TON	CY	TON	CY	SQ YD
1A	SC- 4a	8			122.77	78
	SC- 5a	15			214.95	144
	SC- 6a	24			856.34	238
	SC- 7a	13			817.54	130
	SC- 8a	13			726.56	130
	SC- 9a	27			561.48	271
	SC-10a	27			500.00	267
	SC-11a	6			119.83	56
SUBTOTAL		133	0	0	3,919.46*	1,313
1B	SC- 4	320	316	0.26		
	SC- 5	754	744	0.62		
	SC- 6	1258	1243	1.04		
	SC- 7	966	954	0.79		
	SC- 8	1899	1875	1.56		
	SC- 9	1142	1128	0.94		
	SC-10	1111	1097	0.91		
	SC-11	256	253	0.21		
SUBTOTAL		7,705	7,610	6	0	0
2	SC-16	36	35	0.03	53.09	
	SC-17	173	171	0.14	256.00	
SUBTOTAL		209	206	0.17	309.09	0
TOTAL		8,047*	7,816*	7*	4228.5*	1,313*

* - FOR GRAND TOTAL OF HOT MIX ASPHALT (TYPE A) AND TACK COAT, SEE HOT MIX ASPHALT TABLE ON SHEET Q-1


 **REPLACED PER ADDENDUM No. 4 DATED MARCH 25, 2024**
STAGE CONSTRUCTION QUANTITIES

FINAL SUBMITTAL

SCQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

 CONSULTANT FUNCTIONAL SUPERVISOR
 STEVEN B. BURICK
 CHECKED BY
 C. WILLIAMS
 DESIGNED BY
 N. LEEHACHARENKUL
 REVISOR
 DATE REVISOR

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	153	322

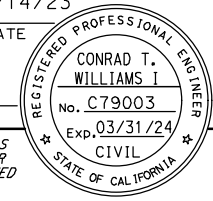
 04/14/23
 REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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MARK THOMAS
 701 UNIVERSITY AVENUE
 SUITE 200
 SACRAMENTO, CA 95825

CITY OF TRACY
 333 CIVIC CENTER PLZ
 TRACY, CA 95376




TEMPORARY PAVEMENT DELINEATION

STAGE	SHEET	TEMPORARY TRAFFIC STRIPE (PAINT)										TEMPORARY PAVEMENT MARKER				
		DETAIL 8	DETAIL 12A	DETAIL 22	DETAIL 25	DETAIL 25A	DETAIL 27B	DETAIL 27C	DETAIL 36	DETAIL 36A	DETAIL 40	TYPE C	TYPE D	TYPE RY		
		LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA		
4 1A/1B	SC- 4		699		699		698						30		30	
	SC- 5		1,300		1,300		1,300						55		55	
	SC- 6	300	1,562		1,562		1,462		737				66		66	
	SC- 7		1,178		1,178		1,153		25				50		50	
	SC- 8		1,164		1,164		1,254						49		49	
	SC- 9	300	2,458		2,458		1,941		500	460			102		102	
	SC-10		2,400		2,399		2,399						100		100	
	SC-11		1,050		1,050		1,050						44		44	
	SC-12			803										69		
	SC-13			801										69		
	SC-14			998										85		
	SUBTOTAL		600	11,811	2,601	11,811	0	13,635	0	1,262	460			496	223	496
	2	SC-15		309		308		309						7		7
		SC-16		1,699		1,699	251	1,947		632				36		75
SC-17		150		185		664				410		17				
SC-18			224	840	224	180	1,278	460				6	72	14		
SC-19			1,132		463		3,050					25		11		
SC-20			43		43	43	959					2		5		
SC-21				615			1,832						53			
SC-22							1,601									
SC-23							1,051									
SUBTOTAL			3,406	1,640	2,737	474	12,690	460	632				76	143	112	
SUBTOTAL		750	15,217	4,242	14,548	474	26,325	460	1,894	460	410		572	366	272	
TOTAL			64,780										1,210			

CONSTRUCTION AREA SIGNS

STAGE	SHEET	SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	No. of SIGNS	
4 1A/1B	SC-4	G20-2	48" x 24"	END ROAD WORK	1 - 6" x 6"	1	
	SC-7	W4-2	36" x 36"	LANE ENDS	1 - 4" x 6"	1	
		W21-5bL	48" x 48"	SHOULDER CLOSED (300 FT)	1 - 6" x 6"	1	
		W21-5bR	48" x 48"	SHOULDER CLOSED (300 FT)	1 - 6" x 6"	1	
	SC-8	C30A (CA)	48" x 48"	SHOULDER CLOSED	1 - 6" x 6"	2	
		W21-5	48" x 48"	SHOULDER WORK	1 - 6" x 6"	1	
		W21-5bL	48" x 48"	SHOULDER CLOSED (300 FT)	1 - 6" x 6"	1	
	SC-11	W21-5bR	48" x 48"	SHOULDER CLOSED (300 FT)	1 - 6" x 6"	2	
		C30A (CA)	48" x 48"	SHOULDER CLOSED	1 - 6" x 6"	3	
		W21-5	48" x 48"	SHOULDER WORK	1 - 6" x 6"	1	
	SC-14	W21-5bR	48" x 48"	SHOULDER CLOSED (700 FT)	1 - 6" x 6"	1	
		C30A (CA)	48" x 48"	SHOULDER CLOSED	1 - 6" x 6"	1	
	2	SC-14	G20-2	48" x 24"	END ROAD WORK	1 - 6" x 6"	1
		SC-15	W4-2	36" x 36"	LANE ENDS	1 - 4" x 6"	1
W21-5			48" x 48"	SHOULDER WORK	1 - 6" x 6"	1	
W21-5bR			48" x 48"	SHOULDER CLOSED (700 FT)	1 - 6" x 6"	1	
SC-17		C30A (CA)	48" x 48"	SHOULDER CLOSED	1 - 6" x 6"	1	
	G20-2	48" x 24"	END ROAD WORK	1 - 6" x 6"	1		
	W21-5	48" x 48"	SHOULDER WORK	1 - 6" x 6"	2		
SC-18	W21-5bR	48" x 48"	SHOULDER CLOSED (400 FT)	1 - 6" x 6"	3		
	C30A (CA)	48" x 48"	SHOULDER CLOSED	1 - 6" x 6"	1		
	W21-5	48" x 48"	SHOULDER WORK	1 - 6" x 6"	1		
SC-20	W21-5bR	48" x 48"	SHOULDER CLOSED (700 FT)	1 - 6" x 6"	1		
	C30A (CA)	48" x 48"	SHOULDER CLOSED	1 - 6" x 6"	1		
SC-20	G20-2	48" x 24"	END ROAD WORK	1 - 6" x 6"	1		


**REPLACED PER
 ADDENDUM No. 4
 DATED MARCH 25, 2024**
**STAGE CONSTRUCTION
 QUANTITIES**

FINAL SUBMITTAL **SCQ-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 N. LEEHACHARENKUL
 C. WILLIAMS
 CALULATED-DESIGNED BY
 CHECKED BY
 CONSULTANT FUNCTIONAL SUPERVISOR
 STEVEN B. BURICK
 REVISOR BY
 DATE REVISOR

LAST REVISION DATE PLOTTED => 26-Mgr-24
 00-00-00 TIME PLOTTED => 12:59

ROADWAY

STATION LIMITS	COLD PLANE AC Pvm†	JPCP	BASE BOND BREAKER	LCB	CLASS 2 AS	RHMA-G	HMA (TYPE A)	TACK COAT	CLASS 2 AB	RSC
	SQYD	CY	SQYD	CY	CY	TON	TON	TON	CY	CY
WB I-580	17,433	3,189	7,972	930	1,860	1,766		7.26		24
EB I-580	17,252	430	1,075	126	251	1,747		7.19		
PPR1		3,621	9,444	1,102	2,204	13	78	0.08	21	
PPR2		2,329	6,075	709	1,418	9	54	0.05	14	
PPR3		2,041	5,322	621	1,242	9	52	0.05	14	
PPR4		4,623	12,060	1,407	2,814					
PATTERSON PASS ROAD	9,602						8,935	10.26	8,771	
PRIVATE ROAD							1,873	2.31	1,850	
DRIVEWAY "A"							73	0.10	140	
DRIVEWAY "B"							64	0.09	122	
DRIVEWAY "GAS"		533	1998						666	
TEXTURED PAVING									698	
TEMPORARY PAVEMENT TOTAL (SHEET SCQ-1)							2854	2.30	2819	
DRAINAGE TOTAL (SHEET DQ-5)							16			
HMA DIKE TOTAL (SHEET Q-1)							115			
TOTAL	44,287	16,766	43,946	4,895	9,789	3,544	14,114	29.69	15,115	24

MINOR CONCRETE (Misc Const)

SHEET	SIDEWALK	CURB RAMP	DRIVEWAY	TEXTURED PAVING	TYPE A1-8 CURB	TYPE A2-6 CURB AND GUTTER	RETAINING CURB	GORE
	CY	CY	CY	CY	CY	CY	CY	CY
L-3								62
L-4	72	4	5	105	42	31	2	
L-5	63	7		280	51	32	7	
L-6								
L-9	5			76	20	3	2	74
SUBTOTAL	140	11	5	461	113	66	11	136
Misc Const MINOR Conc TOTAL								943
MINOR Conc DIKE TOTAL (SHEET Q-1)								133
DRAINAGE MINOR Conc TOTAL (SHEET DQ-5)								24
TOTAL								1,100

MIDWEST GUARDRAIL SYSTEM

SHEET No.	STATION LIMITS	SIDE	DOUBLE MIDWEST GUARDRAIL SYSTEM (STEEL POST)	MIDWEST GUARDRAIL SYSTEM (STEEL POST)	ALTERNATIVE IN-LINE TERMINAL SYSTEM	CONNECT GUARD RAILING TO STRUCTURE*	TRANSITION RAILING (WB-31)	END ANCHOR ASSEMBLY (TYPE SFT-M)	RAIL TENSIONING ASSEMBLY	ALTERNATIVE CRASH CUSHION
			LF	LF	EA	EA	EA	EA	EA	EA
L-3	"I-580" 79+16.72 TO "PPR3" 80+93.54	R+		112.5	1			1		
L-3 TO L-4	"PPR3" 84+64.33 TO "PPR3" 86+35.67	R+		112.5	1	1	1			
L-4	"PPR" 54+28.92 TO "PPR" 56+23.77	L+		125	1	1	1			
	"PPR" 55+88.24 TO "PPR" 56+35.11	L+		25		1	1			
	"PPR" 55+95.59 TO "PPR" 56+39.84	R+		25		1	1			
	"PPR" 51+58.33 TO "PPR" 52+13.24	R+			1	1	1			
	"I-580" 92+95.36 TO "I-580" 94+59.09	L+		87.5	1	1	1			
L-5	"I-580" 91+55.53 TO "I-580" 93+64.19	L+	87.5	112.5				1	1	1
	"I-580" 90+75.74 TO "I-580" 92+83.96	R+	87.5	112.5			1	1	1	1
	"I-580" 89+61.81 TO "I-580" 91+23.01	R+		87.5	1	1	1			
	"PPR3" 90+45.50 TO "PPR" 48+41.02	L+			1	1	1			
L-6	"PPR2" 102+88.47 TO "I-580" 110+26.99	L+		687.5	1		1			
L-7	"I-580" 118+60.65 TO "I-580" 120+16.85	L+		100	1		1			
L-8	"I-580" 127+71.07 TO "I-580" 129+33.49	R+		87.5	1	1	1			
TOTAL			175	1,675	11	10	10	5	2	2

* FOR MGS APPROACH TO A STRUCTURE SEE RSP A77Q1 AND A77U3A.
 * ANCHOR BLOCK (SEE S+D PLAN A77U3)

**4 REPLACED PER ADDENDUM No. 4
 DATED MARCH 25, 2024**

12" RUMBLE STRIP

STATION LIMITS	SIDE	STA
"I-580" 55+50.00 TO 83+25.22	L+	28
"I-580" 72+00.00 TO 88+74.03	R+	17
"I-580" 99+21.74 TO 122+16.90	L+	23
"I-580" 99+18.16 TO 128+83.53	R+	30
TOTAL		97

MINOR CONCRETE (Misc Const) - DIKE

STATION	SIDE	DIKE			CY
		TYPE C LF	TYPE E LF	TYPE F LF	
"I-580" 55+50.00 TO "PPR" 53+73.95	L+		3,603		47
"I-580" 77+87.53 TO "PPR3" 86+26.32	R+	126	476	237	9
"PPR1" 86+58.39 TO "PPR" 51+19.23	R+ to L+		658		9
"PPR2" 93+39.97 TO "I-580" 122+16.90	L+	151	1,904	806	31
"PPR4" 92+62.51 TO "PPR4" 101+52.19	L+		944		13
"PPR4" 110+22.97 TO "I-580" 129+33.49	R+	75	1,735	113	24
TOTAL		352	9,320	1,156	133

PLACE HOT MIX ASPHALT DIKE

STATION LIMITS	SIDE	PLACE HMA DIKE		HMA TON
		TYPE A LF	TYPE E LF	
"I-580" 79+15.07 TO "I-580" 86+45.76	L+		728	20
"PPR" 27+64.80 TO "PPR" 38+74.54	L+	1,129		31
"PPR" 30+28.16 TO "PPR" 45+76.59	R+	1,506		42
"PPR" 40+48.21 TO "PPR" 43+13.70	L+	269		8
"I-580" 99+32.11 TO "I-580" 103+63.68	R+		434	12
"PPR3" 90+70.74 TO "PPR" 47+03.43	R+ to L+	52		2
TOTAL		2,904	1,162	115

** FOR OVERALL HMA QUANTITIES, SEE ROADWAY QUANTITIES FROM SHEET Q-1.

DETECTABLE WARNING SURFACE

LOCATION	DETECTABLE WARNING SURFACE SQFT
CURB RAMP No. 1	31
CURB RAMP No. 2	30
CURB RAMP No. 3	30
CURB RAMP No. 4	30
CURB RAMP No. 5	24
CURB RAMP No. 6	16
ISLAND "C"	62
ISLAND "D"	61
ISLAND "E"	63
ISLAND "F"	63
ISLAND "G"	62
ISLAND "H"	63
TOTAL	535

SUMMARY OF QUANTITIES

FINAL SUBMITTAL

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT FUNCTIONAL SUPERVISOR
 G. CHUDABALA
 V. GUARDIAN
 CHECKED BY
 STEVEN B. BURICK
 REVISIONS: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000, 1010, 1020, 1030, 1040, 1050, 1060, 1070, 1080, 1090, 1100, 1110, 1120, 1130, 1140, 1150, 1160, 1170, 1180, 1190, 1200, 1210, 1220, 1230, 1240, 1250, 1260, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1340, 1350, 1360, 1370, 1380, 1390, 1400, 1410, 1420, 1430, 1440, 1450, 1460, 1470, 1480, 1490, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570, 1580, 1590, 1600, 1610, 1620, 1630, 1640, 1650, 1660, 1670, 1680, 1690, 1700, 1710, 1720, 1730, 1740, 1750, 1760, 1770, 1780, 1790, 1800, 1810, 1820, 1830, 1840, 1850, 1860, 1870, 1880, 1890, 1900, 1910, 1920, 1930, 1940, 1950, 1960, 1970, 1980, 1990, 2000, 2010, 2020, 2030, 2040, 2050, 2060, 2070, 2080, 2090, 2100, 2110, 2120, 2130, 2140, 2150, 2160, 2170, 2180, 2190, 2200, 2210, 2220, 2230, 2240, 2250, 2260, 2270, 2280, 2290, 2300, 2310, 2320, 2330, 2340, 2350, 2360, 2370, 2380, 2390, 2400, 2410, 2420, 2430, 2440, 2450, 2460, 2470, 2480, 2490, 2500, 2510, 2520, 2530, 2540, 2550, 2560, 2570, 2580, 2590, 2600, 2610, 2620, 2630, 2640, 2650, 2660, 2670, 2680, 2690, 2700, 2710, 2720, 2730, 2740, 2750, 2760, 2770, 2780, 2790, 2800, 2810, 2820, 2830, 2840, 2850, 2860, 2870, 2880, 2890, 2900, 2910, 2920, 2930, 2940, 2950, 2960, 2970, 2980, 2990, 3000, 3010, 3020, 3030, 3040, 3050, 3060, 3070, 3080, 3090, 3100, 3110, 3120, 3130, 3140, 3150, 3160, 3170, 3180, 3190, 3200, 3210, 3220, 3230, 3240, 3250, 3260, 3270, 3280, 3290, 3300, 3310, 3320, 3330, 3340, 3350, 3360, 3370, 3380, 3390, 3400, 3410, 3420, 3430, 3440, 3450, 3460, 3470, 3480, 3490, 3500, 3510, 3520, 3530, 3540, 3550, 3560, 3570, 3580, 3590, 3600, 3610, 3620, 3630, 3640, 3650, 3660, 3670, 3680, 3690, 3700, 3710, 3720, 3730, 3740, 3750, 3760, 3770, 3780, 3790, 3800, 3810, 3820, 3830, 3840, 3850, 3860, 3870, 3880, 3890, 3900, 3910, 3920, 3930, 3940, 3950, 3960, 3970, 3980, 3990, 4000, 4010, 4020, 4030, 4040, 4050, 4060, 4070, 4080, 4090, 4100, 4110, 4120, 4130, 4140, 4150, 4160, 4170, 4180, 4190, 4200, 4210, 4220, 4230, 4240, 4250, 4260, 4270, 4280, 4290, 4300, 4310, 4320, 4330, 4340, 4350, 4360, 4370, 4380, 4390, 4400, 4410, 4420, 4430, 4440, 4450, 4460, 4470, 4480, 4490, 4500, 4510, 4520, 4530, 4540, 4550, 4560, 4570, 4580, 4590, 4600, 4610, 4620, 4630, 4640, 4650, 4660, 4670, 4680, 4690, 4700, 4710, 4720, 4730, 4740, 4750, 4760, 4770, 4780, 4790, 4800, 4810, 4820, 4830, 4840, 4850, 4860, 4870, 4880, 4890, 4900, 4910, 4920, 4930, 4940, 4950, 4960, 4970, 4980, 4990, 5000, 5010, 5020, 5030, 5040, 5050, 5060, 5070, 5080, 5090, 5100, 5110, 5120, 5130, 5140, 5150, 5160, 5170, 5180, 5190, 5200, 5210, 5220, 5230, 5240, 5250, 5260, 5270, 5280, 5290, 5300, 5310, 5320, 5330, 5340, 5350, 5360, 5370, 5380, 5390, 5400, 5410, 5420, 5430, 5440, 5450, 5460, 5470, 5480, 5490, 5500, 5510, 5520, 5530, 5540, 5550, 5560, 5570, 5580, 5590, 5600, 5610, 5620, 5630, 5640, 5650, 5660, 5670, 5680, 5690, 5700, 5710, 5720, 5730, 5740, 5750, 5760, 5770, 5780, 5790, 5800, 5810, 5820, 5830, 5840, 5850, 5860, 5870, 5880, 5890, 5900, 5910, 5920, 5930, 5940, 5950, 5960, 5970, 5980, 5990, 6000, 6010, 6020, 6030, 6040, 6050, 6060, 6070, 6080, 6090, 6100, 6110, 6120, 6130, 6140, 6150, 6160, 6170, 6180, 6190, 6200, 6210, 6220, 6230, 6240, 6250, 6260, 6270, 6280, 6290, 6300, 6310, 6320, 6330, 6340, 6350, 6360, 6370, 6380, 6390, 6400, 6410, 6420, 6430, 6440, 6450, 6460, 6470, 6480, 6490, 6500, 6510, 6520, 6530, 6540, 6550, 6560, 6570, 6580, 6590, 6600, 6610, 6620, 6630, 6640, 6650, 6660, 6670, 6680, 6690, 6700, 6710, 6720, 6730, 6740, 6750, 6760, 6770, 6780, 6790, 6800, 6810, 6820, 6830, 6840, 6850, 6860, 6870, 6880, 6890, 6900, 6910, 6920, 6930, 6940, 6950, 6960, 6970, 6980, 6990, 7000, 7010, 7020, 7030, 7040, 7050, 7060, 7070, 7080, 7090, 7100, 7110, 7120, 7130, 7140, 7150, 7160, 7170, 7180, 7190, 7200, 7210, 7220, 7230, 7240, 7250, 7260, 7270, 7280, 7290, 7300, 7310, 7320, 7330, 7340, 7350, 7360, 7370, 7380, 7390, 7400, 7410, 7420, 7430, 7440, 7450, 7460, 7470, 7480, 7490, 7500, 7510, 7520, 7530, 7540, 7550, 7560, 7570, 7580, 7590, 7600, 7610, 7620, 7630, 7640, 7650, 7660, 7670, 7680, 7690, 7700, 7710, 7720, 7730, 7740, 7750, 7760, 7770, 7780, 7790, 7800, 7810, 7820, 7830, 7840, 7850, 7860, 7870, 7880, 7890, 7900, 7910, 7920, 7930, 7940, 7950, 7960, 7970, 7980, 7990, 8000, 8010, 8020, 8030, 8040, 8050, 8060, 8070, 8080, 8090, 8100, 8110, 8120, 813

VEGETATION CONTROL (MINOR Conc)

STATION LIMITS	Loc	AREA SQYD
"I-580" 79+07.41 TO "PPR3" 80+97.84	R+	122
"PPR3" 84+54.31 TO "PPR3" 86+35.67	R+	130
"I-580" 90+21.49 TO "PPR" 48+40.24	R+ TO L+	65
"PPR" 47+41.08 TO "PPR4" 93+14.74	R+	63
"I-580" 89+51.89 TO "I-580" 91+23.09	R+	82
"I-580" 90+66.62 TO "I-580" 92+93.94	R+	126
"I-580" 91+45.52 TO "I-580" 93+73.31	L+	127
"I-580" 92+95.32 TO "I-580" 94+69.17	L+	82
"PPR" 51+48.34 TO "PPR2" 93+54.37	R+	53
"I-580" 102+63.69 TO "I-580" 110+36.99	L+	541
"I-580" 118+90.59 TO "I-580" 120+14.30	L+	71
"I-580" 127+60.98 TO "I-580" 129+33.49	R+	95
TOTAL		1,557

FENCE

STATION	SIDE	TYPE BW, METAL POST		TYPE DWR WOVEN		TYPE HIGH-VISIBILITY*	
		LF	LF	LF	LF	LF	LF
"I-580" 61+38.58 TO "PPR" 54+43.54	L+	2,998					
"PPR" 54+43.54 TO "PPR" 54+63.24	L+			23			
"PPR" 54+83.40 TO "PPR" 56+17.05	L+			195			
"A" 25+12.77 TO "A" 39+16.76	R+	1,448					
"PPR3" 85+22.88 TO "PPR" 45+52.58	R+ to L+	732					
"PPR" 30+40.41 TO "PPR4" 93+83.12	R+	1,745					
"PPR" 54+62.28 TO "I-580" 105+57.62	R+ to L+	1,172					
"PPR4" 102+81.72 TO "PPR4" 103+80.46	R+					101	
"I-580" 104+77.71 TO "I-580" 105+77.67	L+					104	
"I-580" 123+38.12 TO "I-580" 124+50.23	L+					118	
TOTAL		8,095	218			323	

* FOR Temp HIGH-VISIBILITY FENCE, SEE SHEETS C-34 AND C-35.

CONCRETE BARRIER

SHEET No.	STATION LIMITS	SIDE	CONCRETE BARRIER ***		
			TYPE 60M	TYPE 60MS	TYPE 60SD
L-4	"PPR" 51+31.75 TO "PPR" 52+74.21	L+		134	
	"PPR" 51+35.22 TO "PPR" 52+61.20	R+		127	
	"I-580" 91+75.92 TO "I-580" 92+95.36	L+			118
L-5	"PPR" 48+41.02 TO "48+85.04	L+	53		
	"PPR" 48+72.62 TO "PPR" 48+83.87	L+		95	
	"PPR" 48+79.69 TO "PPR" 48+83.87	R+		106	
	"I-580" 91+23.01 TO "I-580" 92+69.55	R+			148
TOTAL			53	462	266

*** FOR ADDITIONAL CONCRETE BARRIER (TYPE 60MD), SEE SHEET R-8.

SEAL PAVEMENT JOINT

SHEET No.	STATION LIMITS	SEAL ISOLATION JOINT	SEAL PAVEMENT JOINT	
			LONGITUDINAL	TRANSVERSE
			LF	LF
L-1	"I-580" 55+50.00 TO "I-580" 62+50.44	700	701	861
L-2	"I-580" 62+50.44 TO "I-580" 75+50.41	1,300	1,539	2,146
L-3	"I-580" 75+50.41 TO "I-580" 86+50.48	1,916	5,710	5,593
L-4	"I-580" 86+50.48 TO "I-580" 98+21.59		4,035	3,906
L-5	"I-580" 86+50.48 TO "I-580" 98+21.59		3,697	3,244
L-6	"I-580" 98+21.59 TO "I-580" 110+50.61	2,594	5,506	3,569
L-7	"I-580" 110+50.61 TO "I-580" 122+50.61	2,366	2,367	3,638
L-8	"I-580" 122+50.61 TO "I-580" 125+56.00	305	305	289
SUBTOTAL		9,183	23,861	23,300
TOTAL		9,183		47,161

IRRIGATION CROSS OVER (ICO)

SHEET No.	8" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT
	LF
L-3	82
L-4	83
TOTAL	165

GATE

STATION	SIDE	INSTALL	RELOCATE
		TYPE 12' WIRE MESH EA	DWR SWING GATE EA
"PPR4" 93+75.35 TO "PPR4" 93+81.97	R+	1	
"PPR4" 102+34.10	R+	1	
"PPR" 54+63.24 TO "PPR" 54+83.40	L+		1
TOTAL		2	1

4 (N) REPRESENTS NON-PAYABLE ITEM

REMOVAL

STATION	SIDE	REMOVE GUARDRAIL LF	TREATED WOOD WASTE (GUARDRAIL) LB	REMOVE FENCE (TYPE BW, METAL POST) LF	REMOVE CONCRETE	
					REMOVE CURB A1-8 CY	REMOVE 9" PCC CY
"PPR" 43+66.03 TO "PPR" 43+98.96	L+	91	999			
"PPR" 48+39.44 TO "PPR" 48+67.97	L+	63	692			
"PPR" 51+33.52 TO "PPR" 51+65.85	L+	42	461			
"PPR" 54+36.95 TO "PPR" 56+00.89	L+	224	2460			
"PPR" 55+75.52 TO "PPR" 56+39.84	R+	65	714			
"PPR" 55+88.26 TO "PPR" 56+35.11	L+	48	527			
"I-580" 90+67.41 TO "I-580" 91+31.05	R+	65	714			
"I-580" 92+36.45 TO "I-580" 93+18.73	L+	82	901			
"I-580" 61+38.58 TO "PPR1" 90+65.74	L+			3206		
"PPR" 54+62.28 TO "I-580" 105+57.62	R+ to L+			1,362		
"PPR3" 83+64.08 TO "PPR" 46+08.88	R+ to L+			773		
"PPR3" 85+22.59 TO "PPR" 45+52.58	R+			635		
"PPR4" 91+86.04 TO "PPR4" 101+83.58	R+			1019		
"A" 31+81.75 TO "PPR" 38+66.20	L+			728		
"PPR" 30+40.44 TO "PPR4" 91+77.95	R+			1668		
"PPR" 47+58.80 TO "PPR" 47+84.52	L+			100		
"PPR" 52+17.65 TO "PPR" 53+17.97	R+			354		
"PPR" 44+87.98 TO "PPR" 45+49.51	L+					725
SUBTOTAL		680	7468	9,391	454	725
GRAND TOTAL		680	7468**	9,391		1179

** SEE SHEET SQ-3 FOR ADDITIONAL TREATED WOOD WASTE QUANTITY

4 REPLACED PER ADDENDUM No. 4 DATED MARCH 25, 2024

EARTHWORK

LOCATION/DESCRIPTION	ROADWAY EXCAVATION		EMBANKMENT (N) CY	IMPORT BORROW CY
	ROADWAY EXCAVATION CY	BASIN/DITCH EXCAVATION CY		
	WB ON-RAMP "PPR1" LINE	9,970	1,436	38,267
WB OFF-RAMP "PPR2" LINE	5,417	2,690	32,990	25,694
EB OFF-RAMP "PPR3" LINE	2,711	1,502	692	
EB ON-RAMP "PPR4" LINE	1,785	1,968	19,276	15,898
PATTERSON PASS Rd "PPR" LINE	2,113	1,232	48,855	45,845
PRIVATE Rd "A" LINE	1,646		5,247	3,766
WB "I-580" LINE SLOPE KEY	1,884			
EB "I-580" LINE SLOPE KEY	2,042			
STAGE CONSTRUCTION	4,229			(4,229)
TOTAL	31,797	8,828	145,327	114,975

4

SUMMARY OF QUANTITIES

FINAL SUBMITTAL

Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
G. CHUDABALA
V. GUARDIAN
STEVEN B. BURICK

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	190	321

Vincent Guardian 04/21/23
REGISTERED CIVIL ENGINEER DATE
04/21/2023
PLANS APPROVAL DATE

VINCENT GUARDIAN
No. 75805
Exp. 06/30/24
CIVIL
STATE OF CALIFORNIA

MARK THOMAS
701 UNIVERSITY AVENUE
SUITE 200
SACRAMENTO, CA 95825

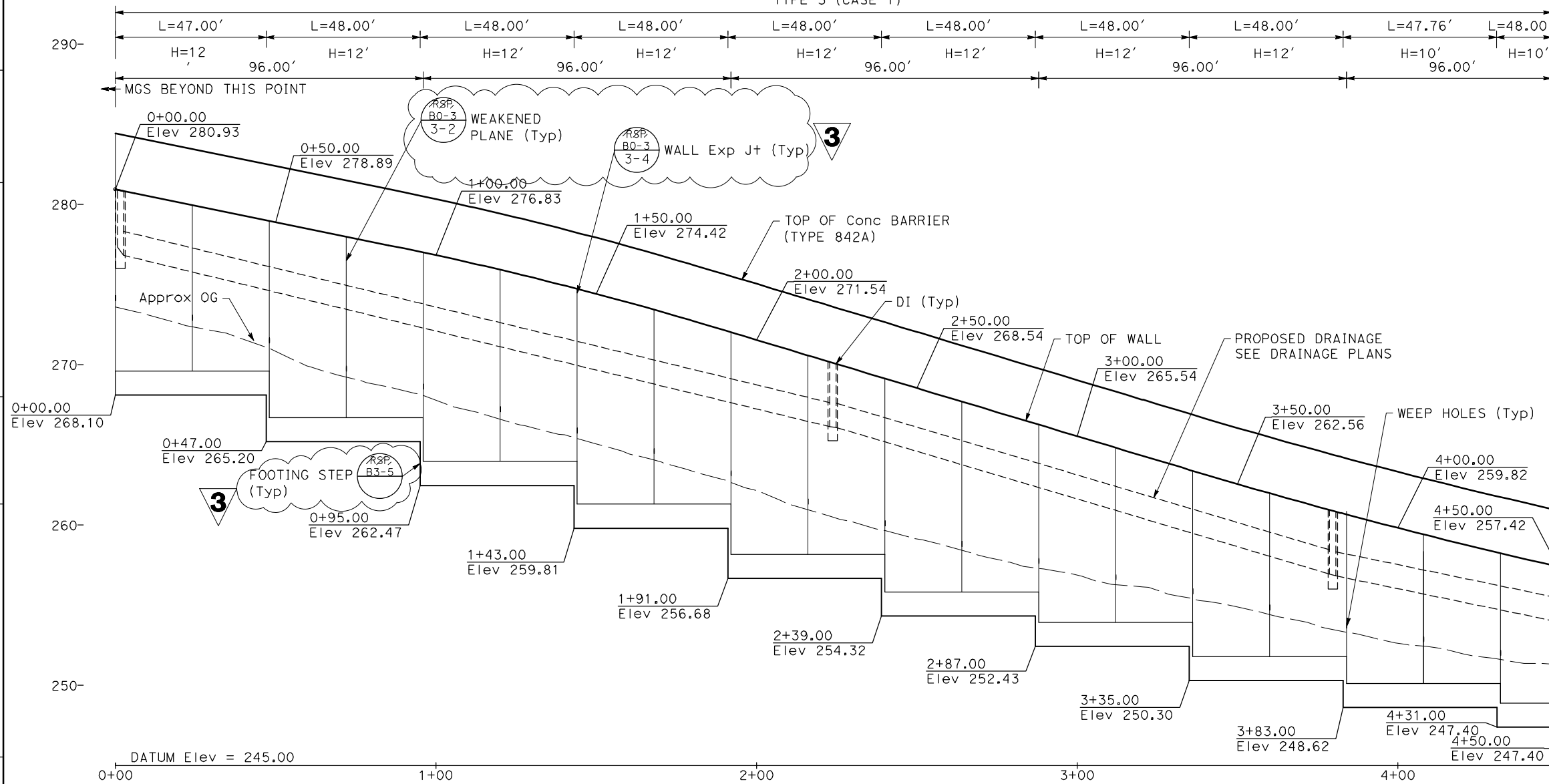
CITY OF TRACY
333 CIVIC CENTER PLZ
TRACY, CA 95376

3 REPLACED PER ADDENDUM No. 3 DATED MARCH 19, 2024

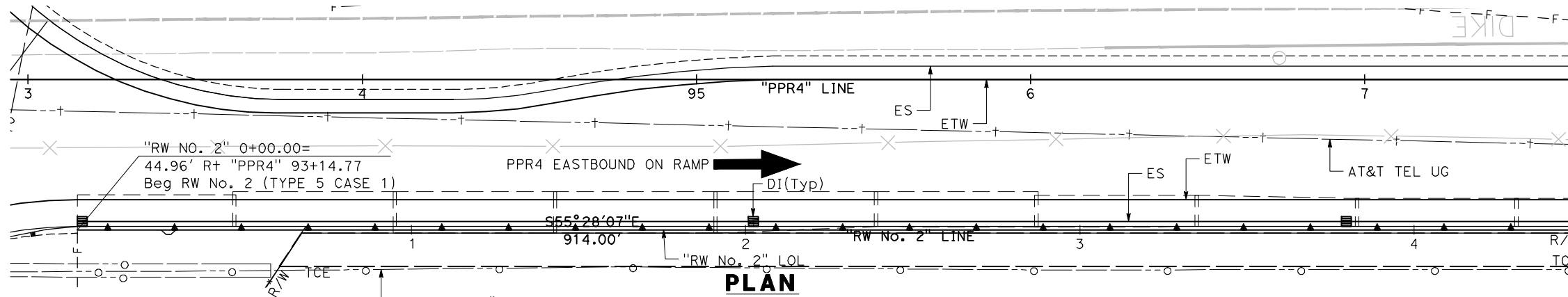
NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- FOR STATION RANGE "PPR4" 98+00 TO "PPR4" 102+29 OVER-EXCAVATION AND SUBSEQUENT ENGINEERED FILLED PLACEMENT WILL BE REQUIRED BELOW THE BOTTOM OF PROPOSED FOOTINGS TO AN ELEVATION OF APPROXIMATELY 235 FEET TO EXPOSE DENSE CLAYEY SAND

TOTAL LENGTH MEASURED ALONG "RW No. 2" LOL = 914.00'
TYPE 5 (CASE 1)



DEVELOPED MIRROR ELEVATION
SCALE: 1" = 20'



PLAN
SCALE: 1" = 20'

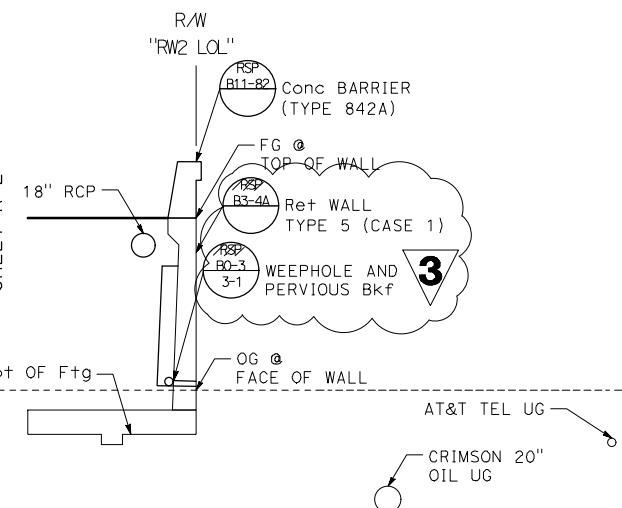
THIS PLAN TO BE USED FOR RETAINING WALL ONLY

LENGTH DESIGN H

EXP JT SPACING

MATCHLINE STA 4+50
SHEET R-2

MATCHLINE STA 4+50
SHEET R-2



TYPICAL SECTION
TYPE 5 CASE 1
STA 0+00 TO STA 9+08.53
1/6" = 1'-0"
NOT TO SCALE

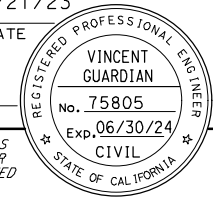
RETAINING WALL PLAN RW No. 2 SCALE AS SHOWN

FINAL SUBMITTAL

R-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	191	321

Vincent Guardian 04/21/23	
REGISTERED CIVIL ENGINEER	DATE
04/21/2023	
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.	
MARK THOMAS 701 UNIVERSITY AVENUE SUITE 200 SACRAMENTO, CA 95825	CITY OF TRACY 333 CIVIC CENTER PLZ TRACY, CA 95376



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

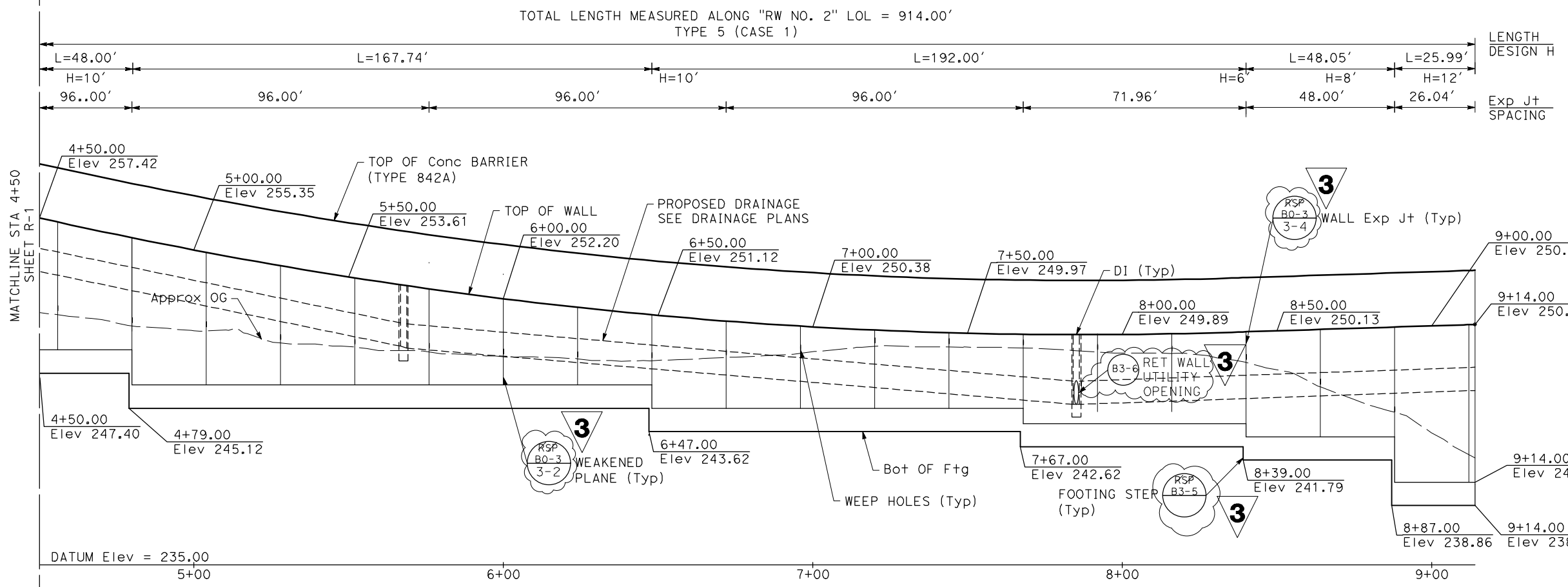
REVISOR: J. MARTINEZ
CHECKED BY: V. GUARDIAN
DESIGNER: STEVEN B. BURICK
SUPERVISOR: STEVEN B. BURICK

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	192	321

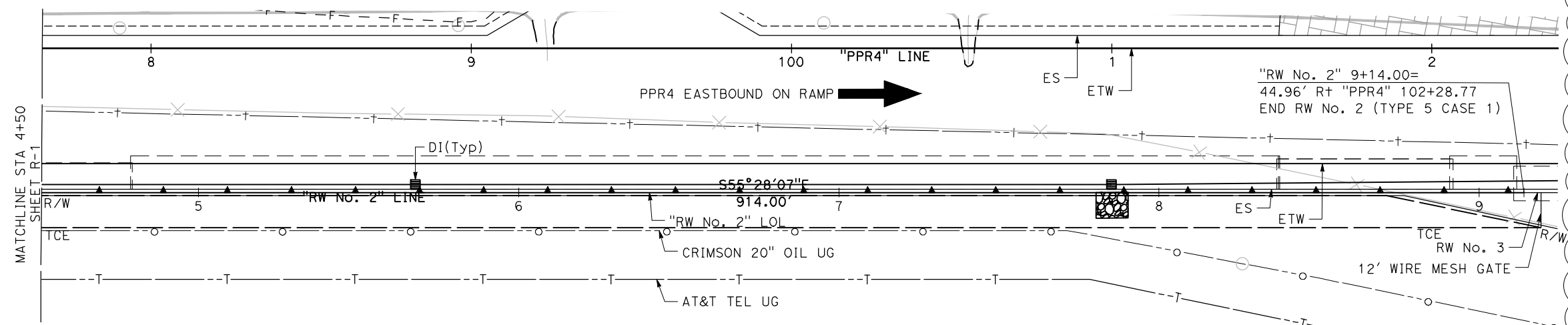
Vincent Duran	04/21/23
REGISTERED CIVIL ENGINEER	DATE
04/21/2023	
PLANS APPROVAL DATE	

MARK THOMAS 701 UNIVERSITY AVENUE SUITE 200 SACRAMENTO, CA 95825	CITY OF TRACY 333 CIVIC CENTER PLZ TRACY, CA 95376
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NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



DEVELOPED MIRROR ELEVATION
SCALE: 1" = 20'



PLAN
SCALE: 1" = 20'

LEGEND:

- STRUCTURE EXCAVATION (RETAINING WALL)
- STRUCTURE BACKFILL (RETAINING WALL)

LIMITS OF STRUCTURE EXCAVATION AND BACKFILL
NOT TO SCALE

*OVER EXCAVATE TO AN ELEVATION OF 235.0 OR DIRECTED BY ON-SITE GEOTECHNICAL ENGINEER

RETAINING WALL PLAN
RW No. 2
SCALE AS SHOWN

REPLACED PER ADDENDUM No. 3 DATED MARCH 19, 2024

THIS PLAN TO BE USED FOR RETAINING WALL ONLY

FINAL SUBMITTAL

R-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

REVISOR: J. MARTINEZ, V. GUARDIAN
CHECKED BY: STEVEN B. BURICK
CONSULTANT FUNCTIONAL SUPERVISOR

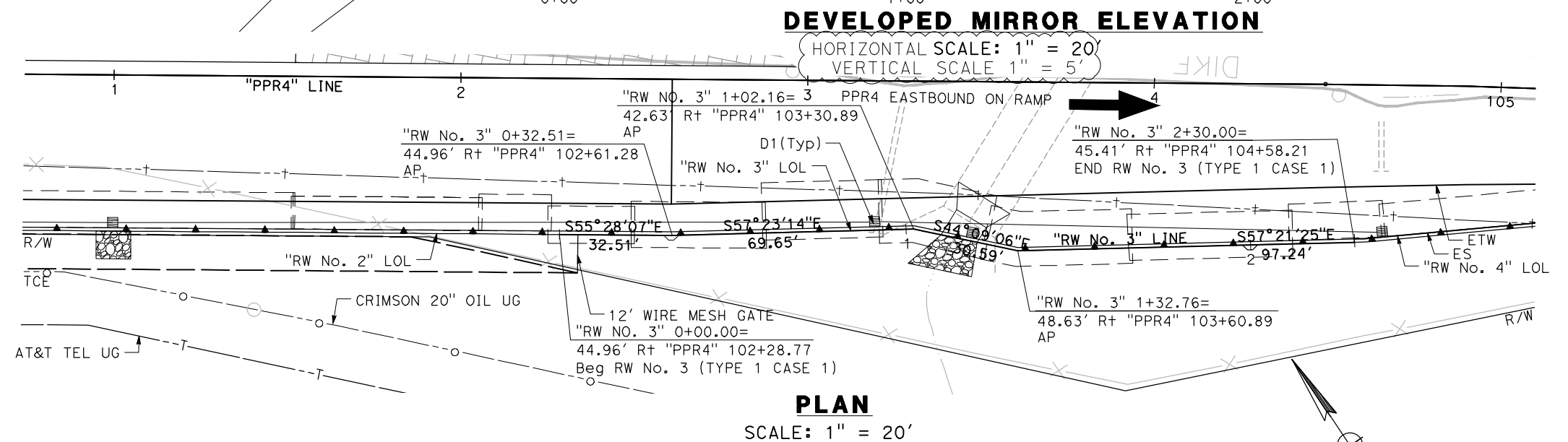
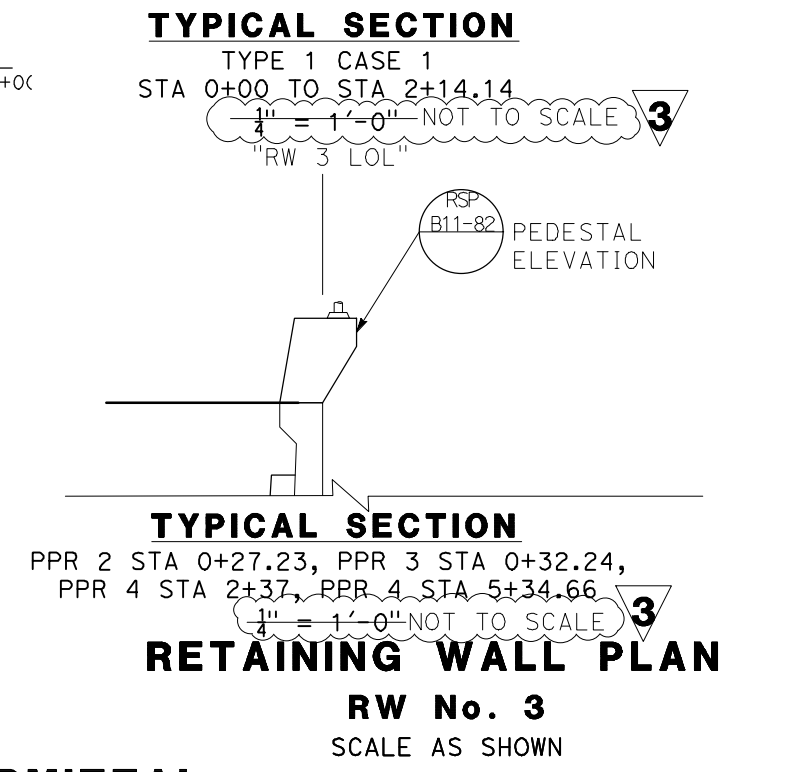
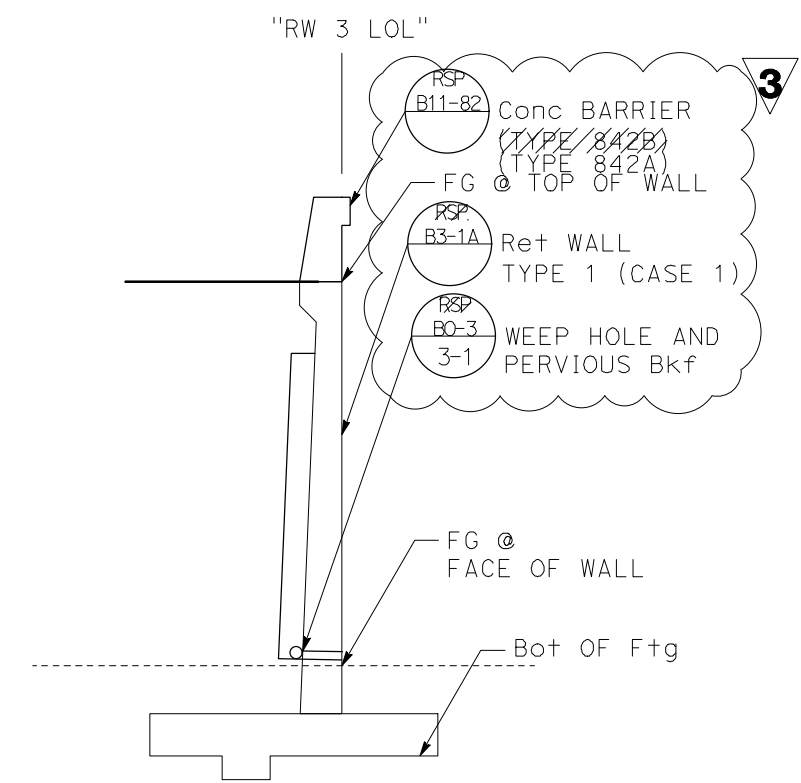
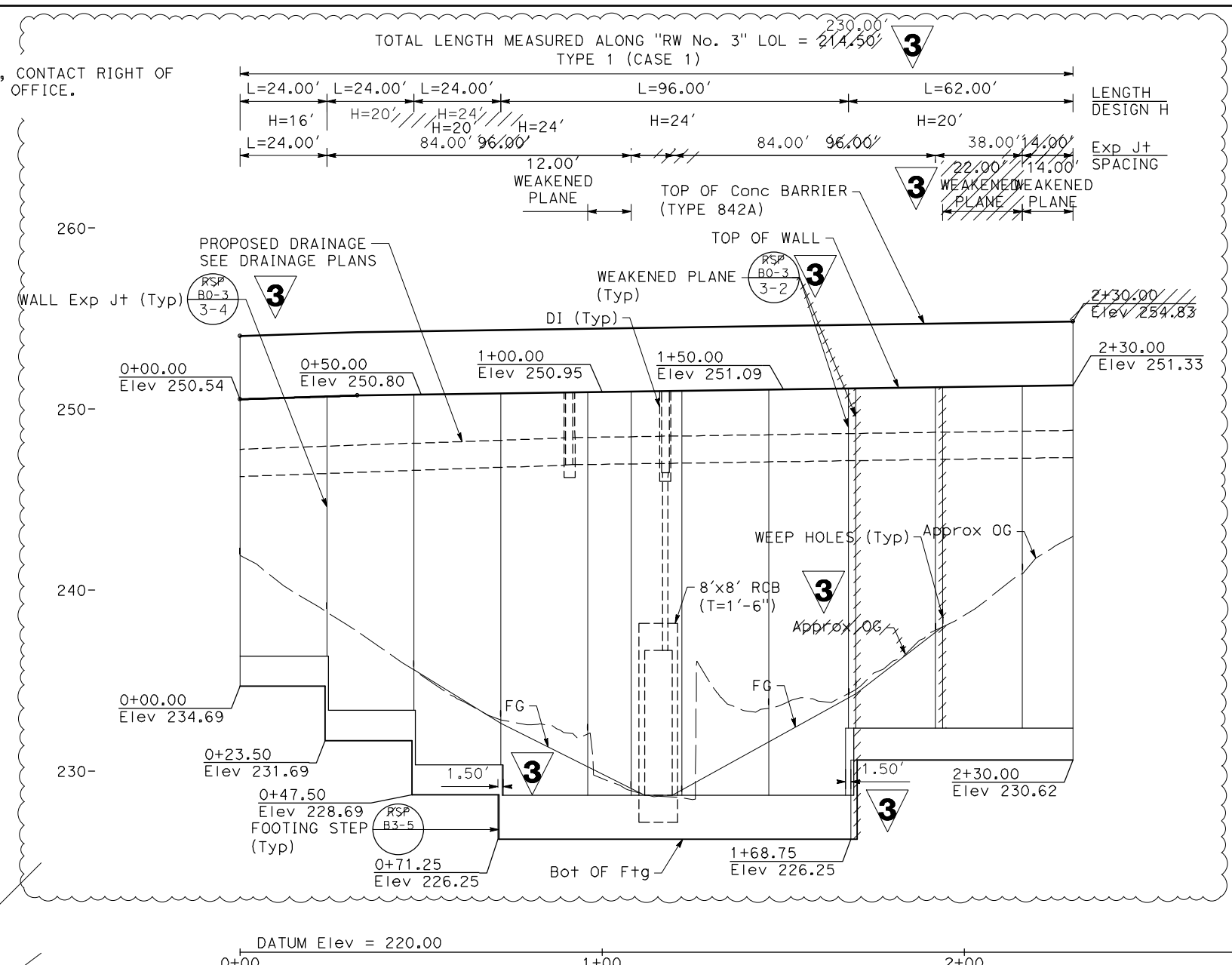
LAST REVISION: DATE PLOTTED => 25-MAR-24
00-00-00 TIME PLOTTED => 14:50

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	193	321

<i>Vincent Guardian</i> REGISTERED CIVIL ENGINEER	04/21/23 DATE
04/21/2023 PLANS APPROVAL DATE	VINCENT GUARDIAN No. 75805 Exp. 06/30/24 CIVIL ENGINEER STATE OF CALIFORNIA

MARK THOMAS 701 UNIVERSITY AVENUE SUITE 200 SACRAMENTO, CA 95825	CITY OF TRACY 333 CIVIC CENTER PLZ TRACY, CA 95376
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NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



REPLACED PER ADDENDUM No. 3 DATED MARCH 19, 2024
 THIS PLAN TO BE USED FOR RETAINING WALL ONLY

FINAL SUBMITTAL
R-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT FUNCTIONAL SUPERVISOR: STEVEN B. BURICK
 CALCULATED-DRAWN BY: J. MARTINEZ
 CHECKED BY: V. GUARDIAN
 REVISIONS: (None shown)
 USERNAME => jmartinez
 DGN FILE => I-580_R3.dwg
 BORDER LAST REVISED 7/2/2010
 RELATIVE BORDER SCALE IS IN INCHES
 UNIT 0000
 PROJECT NUMBER & PHASE: 1015000011

LAST REVISION: DATE PLOTTED => 25-MAR-24
 00-00-00 TIME PLOTTED => 14:52

3 REPLACED PER ADDENDUM No. 3 DATED MARCH 19, 2024

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	194	321

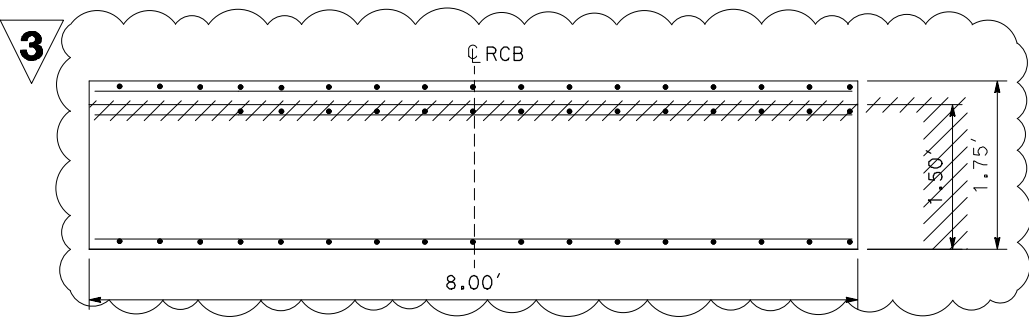
Vincent Guardian 04/21/23
 REGISTERED CIVIL ENGINEER DATE
 04/21/2023
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 VINCENT GUARDIAN
 No. 75805
 Exp. 06/30/24
 CIVIL
 STATE OF CALIFORNIA

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.

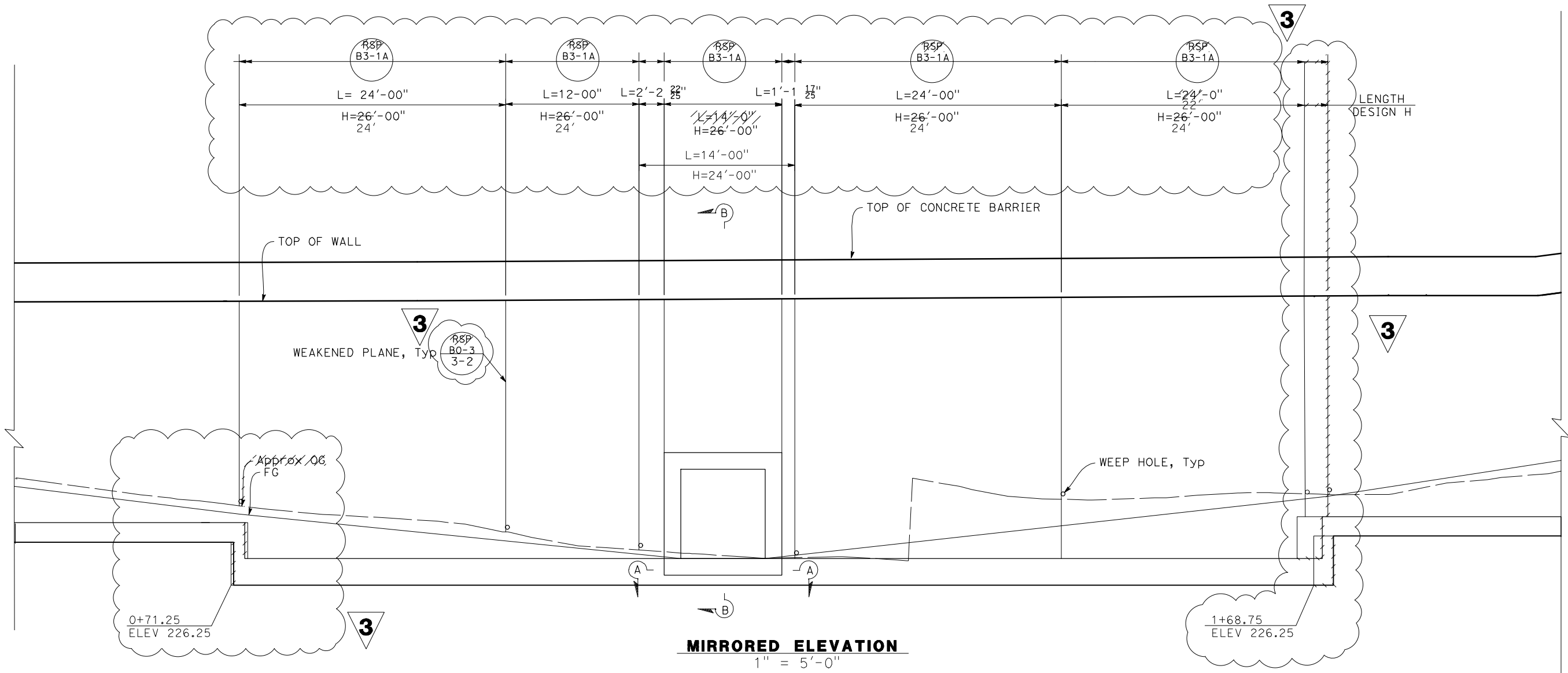
MARK THOMAS
 701 UNIVERSITY AVENUE
 SUITE 200
 SACRAMENTO, CA 95825

CITY OF TRACY
 333 CIVIC CENTER PLZ
 TRACY, CA 95376



SECTION A-A
 1" = 1'-0"

NOTE:
 1. FOR "SECTION B-B", SEE "WALL DETAILS No. 2" SHEET.



MIRRORED ELEVATION
 1" = 5'-0"

RETAINING WALL PLAN
RW No. 3, DETAIL No. 1
 SCALE AS SHOWN

THIS PLAN TO BE USED FOR RETAINING WALL ONLY

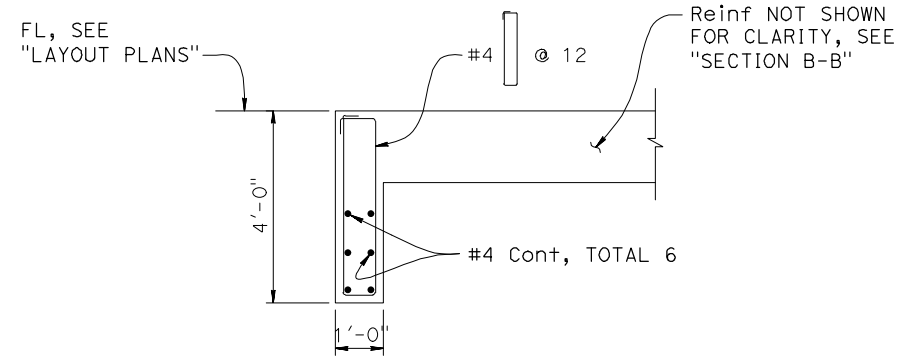
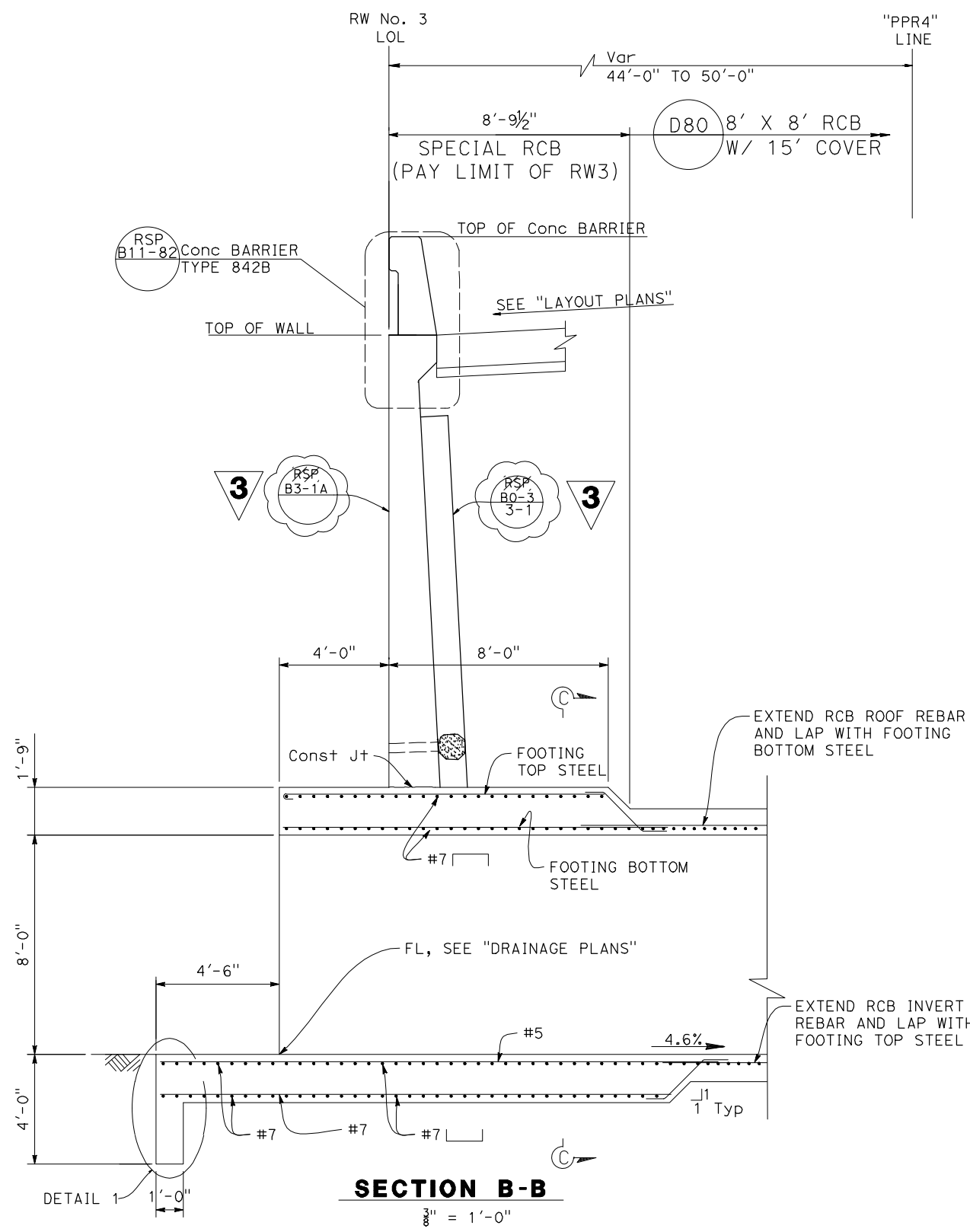
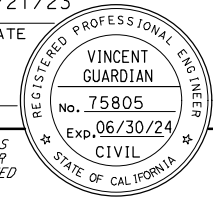
FINAL SUBMITTAL

R-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT FUNCTIONAL SUPERVISOR: STEVEN B. BURICK
 CALCULATED/DESIGNED BY: J. MARTINEZ
 CHECKED BY: V. GUARDIAN
 REVISED BY: DATE
 REVISIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

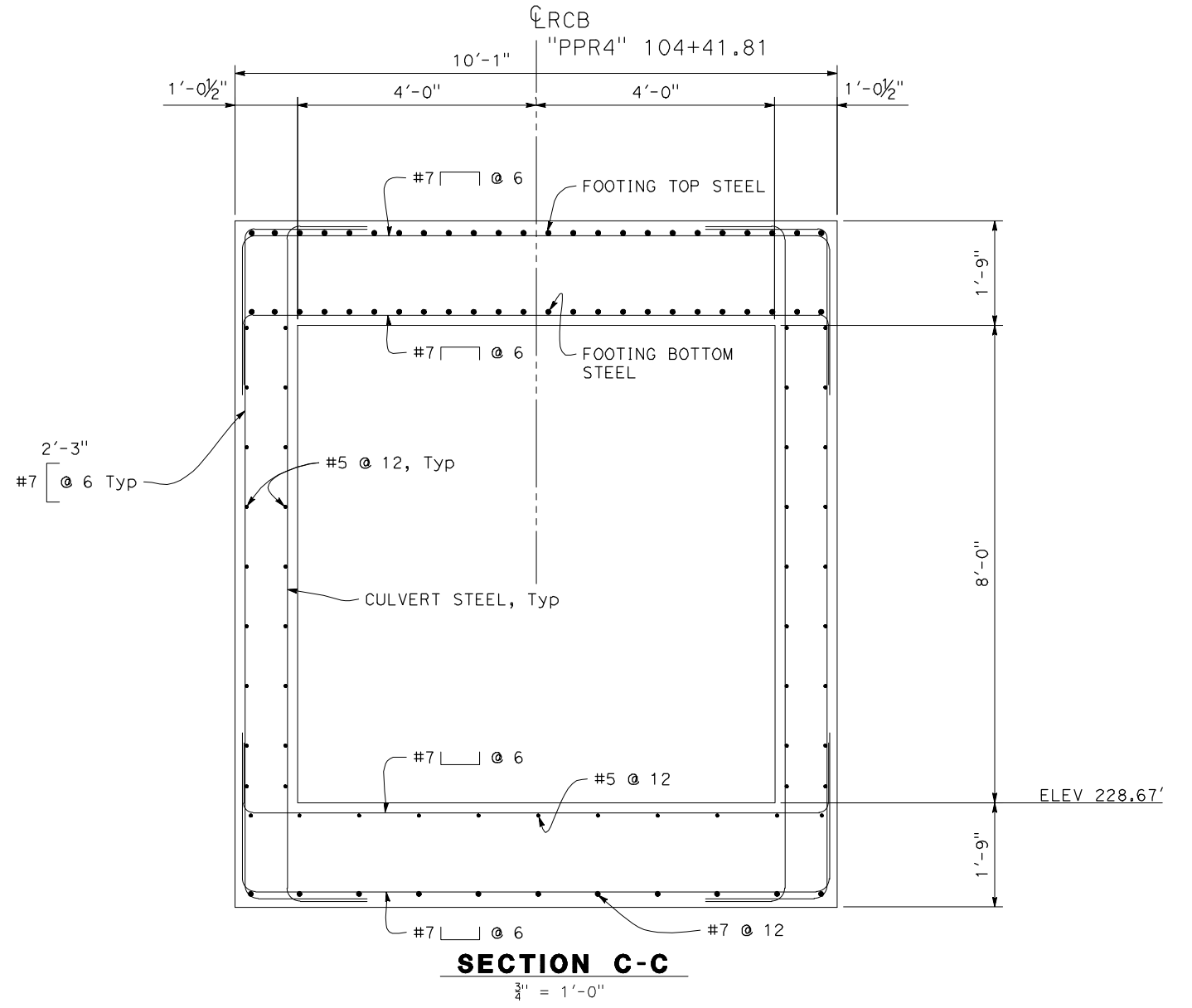
LAST REVISION DATE PLOTTED => 26-Mar-24 00-00-00 TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	195	321
<i>Vincent Guardian</i> REGISTERED CIVIL ENGINEER DATE 04/21/23			04/21/2023 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.					
MARK THOMAS 701 UNIVERSITY AVENUE SUITE 200 SACRAMENTO, CA 95825			CITY OF TRACY 333 CIVIC CENTER PLZ TRACY, CA 95376		



NOTES:

1. FOR LOCATION OF "SECTION B-B", SEE "WALL DETAILS No. 1" SHEET.
2. FOR CLARITY, ONLY ADDITIONAL REQUIREMENTS IN "SECTION B-B" AND "SECTION C-C" ARE CALLED OUT. FOR RCB STANDARD REINFORCEMENT SEE (D80).
3. SEE "DRAINAGE PLANS" FOR THE LIMITS OF REGULAR RCB.



3 REPLACED PER ADDENDUM No. 3 DATED MARCH 19, 2024

RETAINING WALL PLAN
RW No. 3, DETAILS No. 2
 SCALE AS SHOWN

FINAL SUBMITTAL

R-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR
Caltrans	STEVEN B. BURICK	J. MARTINEZ	V. GUARDIAN
		CHECKED BY	DATE REVISOR

3 REPLACED PER ADDENDUM No. 3 DATED MARCH 19, 2024

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR THE ENTIRE WALL LENGTH, OVER-EXCAVATION AND SUBSEQUENT ENGINEERED FILL PLACEMENT WILL BE REQUIRED BELOW THE BOTTOM OF PROPOSED FOOTINGS TO AN ELEVATION OF APPROXIMATELY 239 FEET TO EXPOSE DENSE CLAYEY SANDS

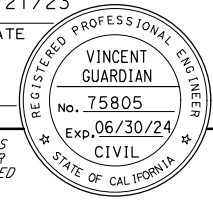
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	196	321

04/21/23

REGISTERED CIVIL ENGINEER DATE

04/21/2023

PLANS APPROVAL DATE

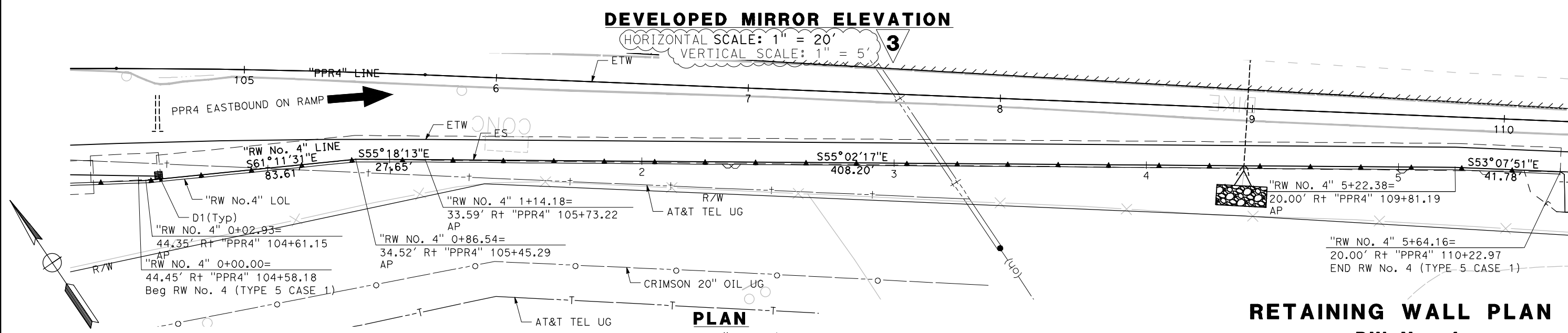
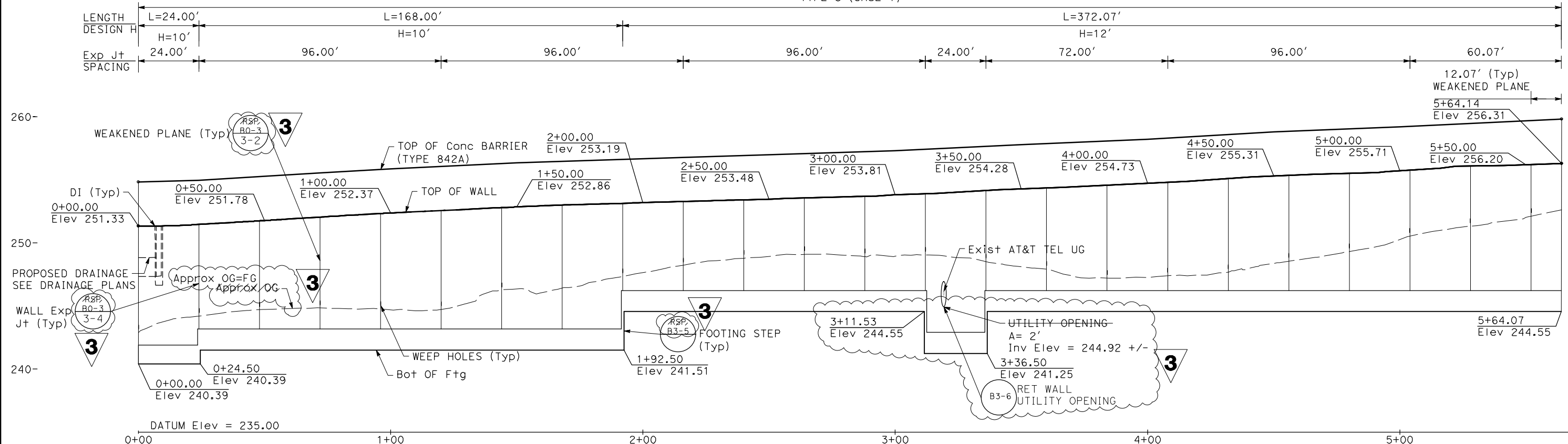


THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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701 UNIVERSITY AVENUE
SUITE 200
SACRAMENTO, CA 95825

CITY OF TRACY
333 CIVIC CENTER PLZ
TRACY, CA 95376

TOTAL LENGTH MEASURED ALONG "RW No. 4" LOL = 564.07'
TYPE 5 (CASE 1)



RETAINING WALL PLAN RW No. 4 SCALE AS SHOWN

FINAL SUBMITTAL

R-6

THIS PLAN TO BE USED FOR RETAINING WALL ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT SUPERVISOR: STEVEN B. BURICK
 CALCULATED/DESIGNED BY: J. MARTINEZ
 CHECKED BY: V. GUARDIAN
 REVISED BY: DATE REVISOR

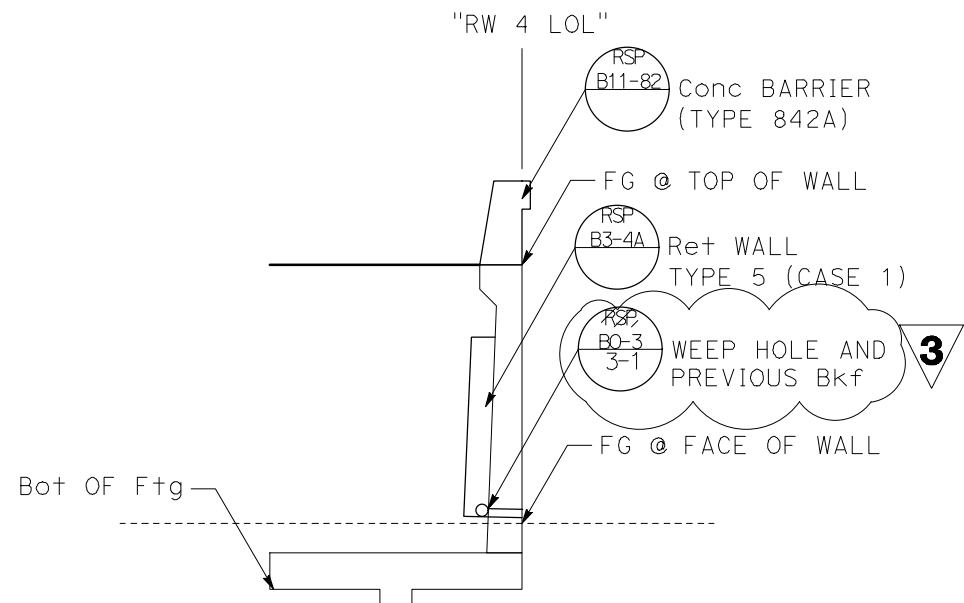
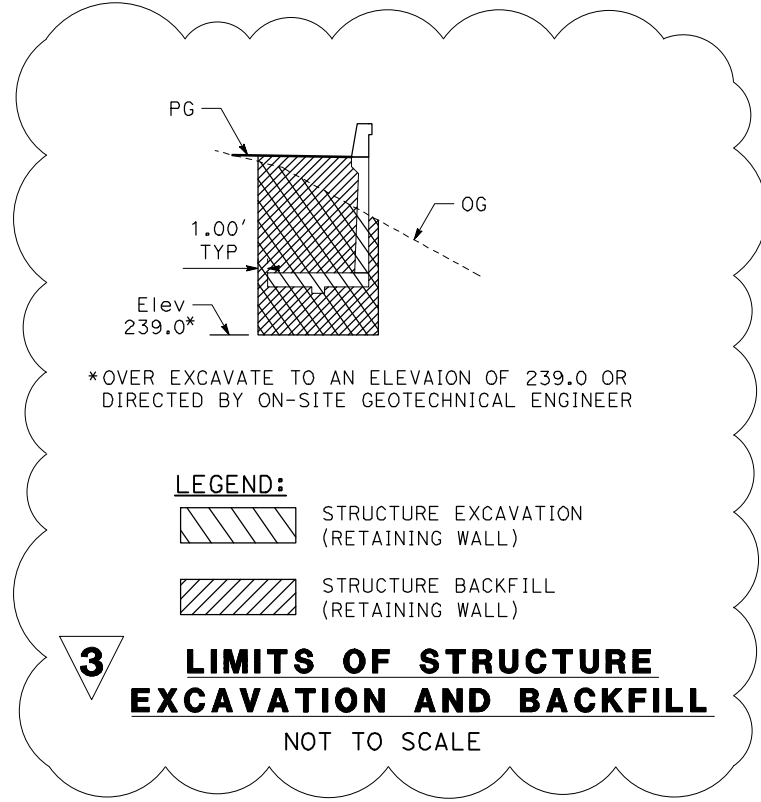
LAST REVISION DATE PLOTTED => 25-Mar-24
 00-00-00 TIME PLOTTED => 15:16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	197	321
<i>Vincent Guardian</i> 04/21/23 REGISTERED CIVIL ENGINEER DATE			04/21/2023 PLANS APPROVAL DATE		
<small>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.</small>					
MARK THOMAS 701 UNIVERSITY AVENUE SUITE 200 SACRAMENTO, CA 95825			CITY OF TRACY 333 CIVIC CENTER PLZ TRACY, CA 95376		

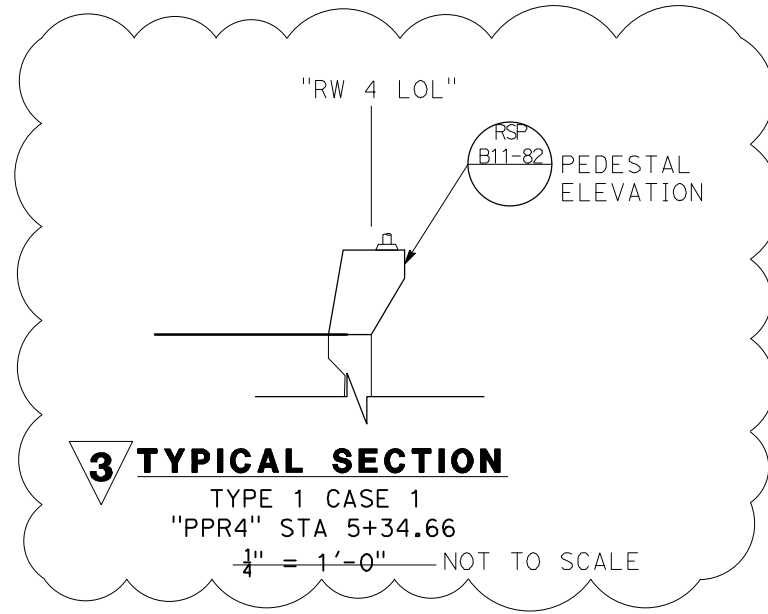


NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- FOR THE ENTIRE WALL LENGTH, OVER=EXCAVATION AND SUBSEQUENT ENGINEERED FILL PLACEMENT WILL BE REQUIRED BELOW THE BOTTOM OF PROPOSED FOOTINGS TO AN ELEVATION OF APPROXIMATELY 239 FEET TO EXPOSE DENSE CLAYEY SANDS



TYPICAL SECTION
TYPE 5 CASE 1
STA 0+00 TO STA 5+64.10
1" = 1'-0"
NOT TO SCALE **3**



RETAINING WALL PLAN
RW No. 4, TYPICAL SECTION
SCALE AS SHOWN

3 REPLACED PER ADDENDUM No. 3
DATED MARCH 19, 2024

THIS PLAN TO BE USED FOR RETAINING WALL ONLY

FINAL SUBMITTAL

R-7

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	198	321

Vincent Guardian 04/21/23
REGISTERED CIVIL ENGINEER DATE

04/21/2023
PLANS APPROVAL DATE

VINCENT GUARDIAN
No. 75805
Exp. 06/30/24
CIVIL
STATE OF CALIFORNIA

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MARK THOMAS
701 UNIVERSITY AVENUE
SUITE 200
SACRAMENTO, CA 95825

CITY OF TRACY
333 CIVIC CENTER PLZ
TRACY, CA 95376

NOTE:
FOR RETAINING WALL No. 86, SEE SHEET 314-321.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR
STEVEN B. BURICK

CALCULATED-DESIGNED BY
J. MARTINEZ

CHECKED BY
V. GUARDIAN

REVISED BY
DATE

REVISED BY
DATE

RETAINING WALL

SHEET No.	RETAINING WALL No.	WALL TYPE	LENGTH (N)		STRUCTURE CONCRETE, RETAINING WALL	BAR REINFORCING STEEL (RETAINING WALL)	STRUCTURE EXCAVATION (RETAINING WALL)	STRUCTURE BACKFILL (RETAINING WALL)	CONCRETE BARRIER (TYPE 60MD)	CONCRETE BARRIER (TYPE 842A)	CONCRETE BARRIER (TYPE 842B)	CABLE RAILING	MINOR CONCRETE GUTTER
			LF	CY	LB	CY	CY	LF	LF	LF	LF	LF	
314-321	86	7B	551	451	49,025	1,814	701	438				551	549
R-1 TO R-2	2	5 CASE 1	914	834	107,717	-1,761 7,733	-2,928 8,773		914				
R-3	3	1 CASE 1	-214 230	-520 509	133,353 93,531	-917 825	-1,630 1,475		230		214		
R-6	4	5 CASE 1	-153 564	-150 505	14,924 59,451	-1,200 1,935	-549 2,650		-153 564				
TOTAL			1,832 2,259	1,955 2,299	305,019 309,724	5,692 12,307	5,808 13,599	438	1,067 1,708	214	551	549	

3 REPLACED PER ADDENDUM No. 3 DATED MARCH 19, 2024

SUMMARY OF QUANTITIES

THIS PLAN TO BE USED FOR RETAINING WALL ONLY

FINAL SUBMITTAL

NO SCALE

R-8

LAST REVISION DATE PLOTTED => 25-Mar-24 00-00-00 TIME PLOTTED => 15:09

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT FUNCTIONAL SUPERVISOR STEVEN B. BURICK
 CALCULATED/DESIGNED BY G. CHUDABALA
 CHECKED BY F. DIAZ
 REVISED BY DATE

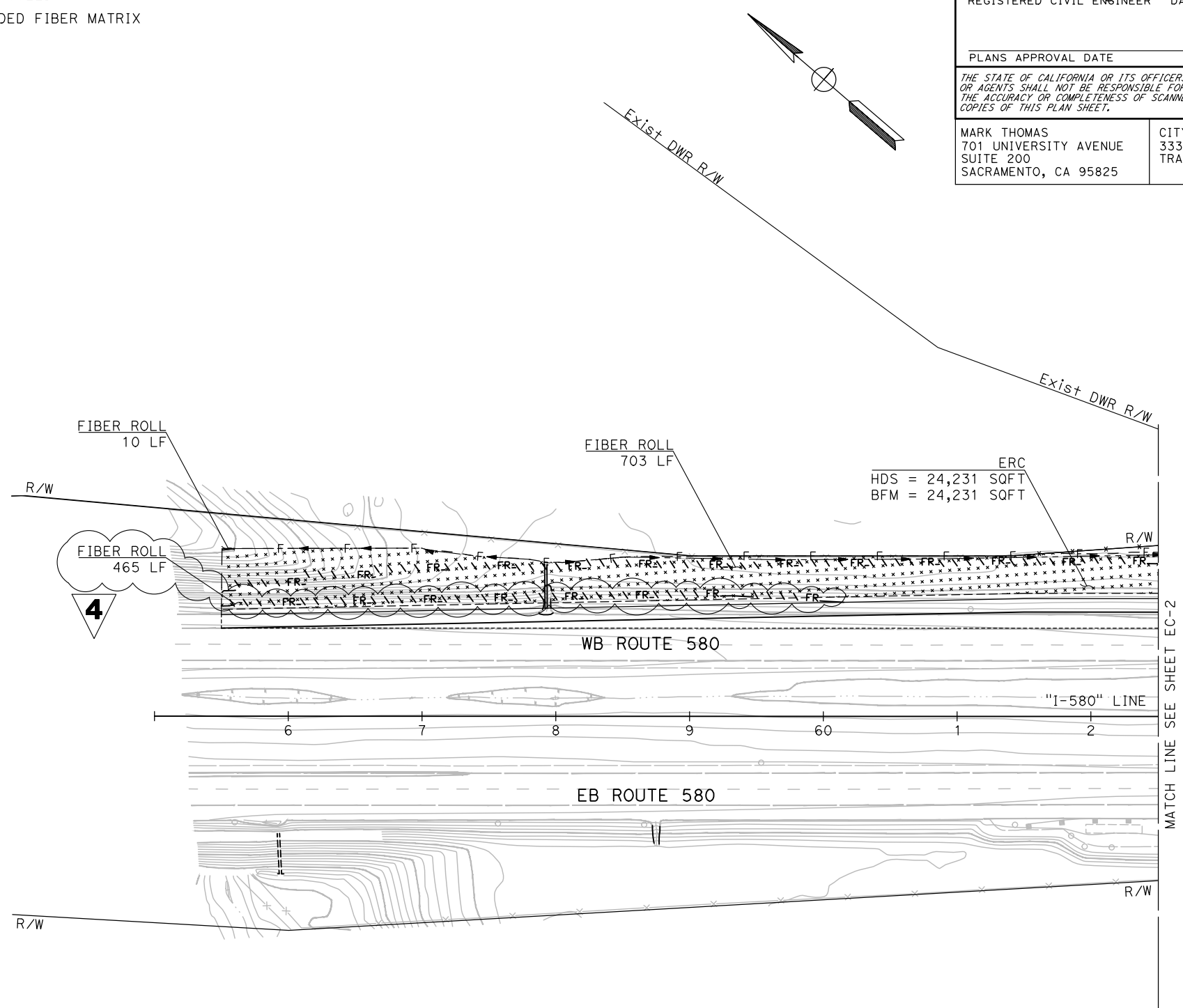
NOTES:
 1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 2. ALL SEED SHALL BE FROM NATIVE CA SEED SOURCES

LEGEND:
 [Pattern] ERC
 [Pattern] COMPOST
 [Pattern] HYDROSEED
 [Pattern] BONDED FIBER MATRIX
 ---FR---FR PERMANENT FIBER ROLL

ABBREVIATIONS:
 ERC EROSION CONTROL
 HDS HYDROSEED
 BFM BONDED FIBER MATRIX

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	200	322

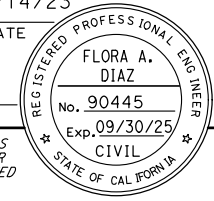
04/14/23
 REGISTERED CIVIL ENGINEER DATE
 FLORA A. DIAZ
 No. 90445
 Exp. 09/30/25
 CIVIL
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.
 MARK THOMAS
 701 UNIVERSITY AVENUE
 SUITE 200
 SACRAMENTO, CA 95825
 CITY OF TRACY
 333 CIVIC CENTER PLZ
 TRACY, CA 95376

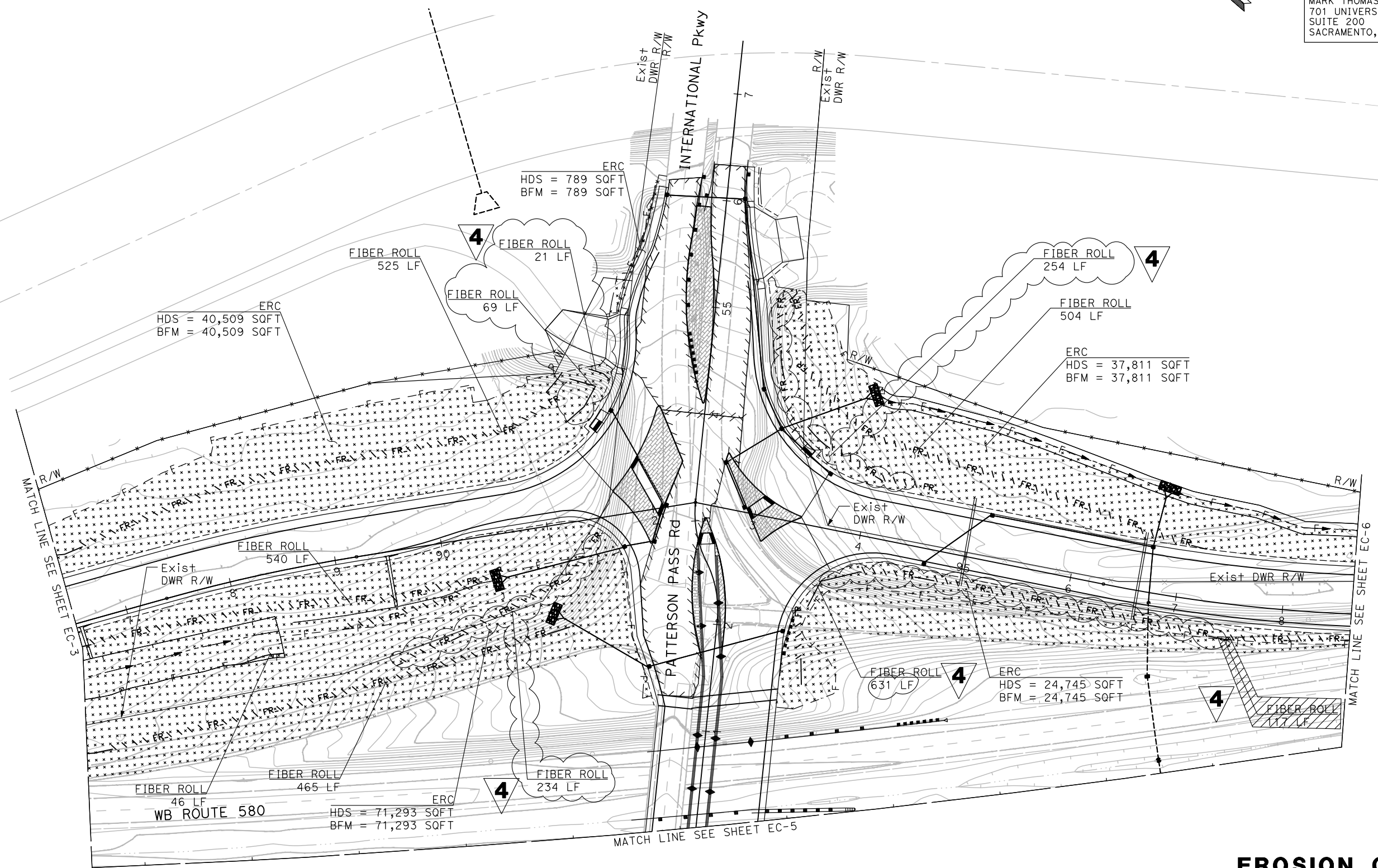
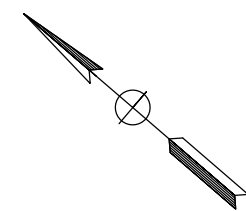


4 REPLACED PER ADDENDUM No. 4 DATED MARCH 25, 2024 **EROSION CONTROL PLAN**
 SCALE: 1" = 50'
FINAL SUBMITTAL **EC-1**
 APPROVED FOR EROSION CONTROL WORK ONLY

LAST REVISION DATE PLOTTED => 25-Mgr-24 00-00-00 TIME PLOTTED => 14:42

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	203	322
<i>Flora Diaz</i> REGISTERED CIVIL ENGINEER			04/14/23 DATE		
PLANS APPROVAL DATE					
MARK THOMAS 701 UNIVERSITY AVENUE SUITE 200 SACRAMENTO, CA 95825			CITY OF TRACY 333 CIVIC CENTER PLZ TRACY, CA 95376		



4 REPLACED PER ADDENDUM No. 4 DATED MARCH 25, 2024

EROSION CONTROL PLAN
SCALE: 1" = 50'

FINAL SUBMITTAL

EC-4

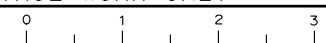
APPROVED FOR EROSION CONTROL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

BORDER LAST REVISED 7/2/2010

USERNAME => miam
DGN FILE => I-580_EC-4.dwg

RELATIVE BORDER SCALE IS IN INCHES



UNIT 0000

PROJECT NUMBER & PHASE

1015000011

LAST REVISION DATE PLOTTED => 25-MAR-24
00-00-00 TIME PLOTTED => 14:43

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

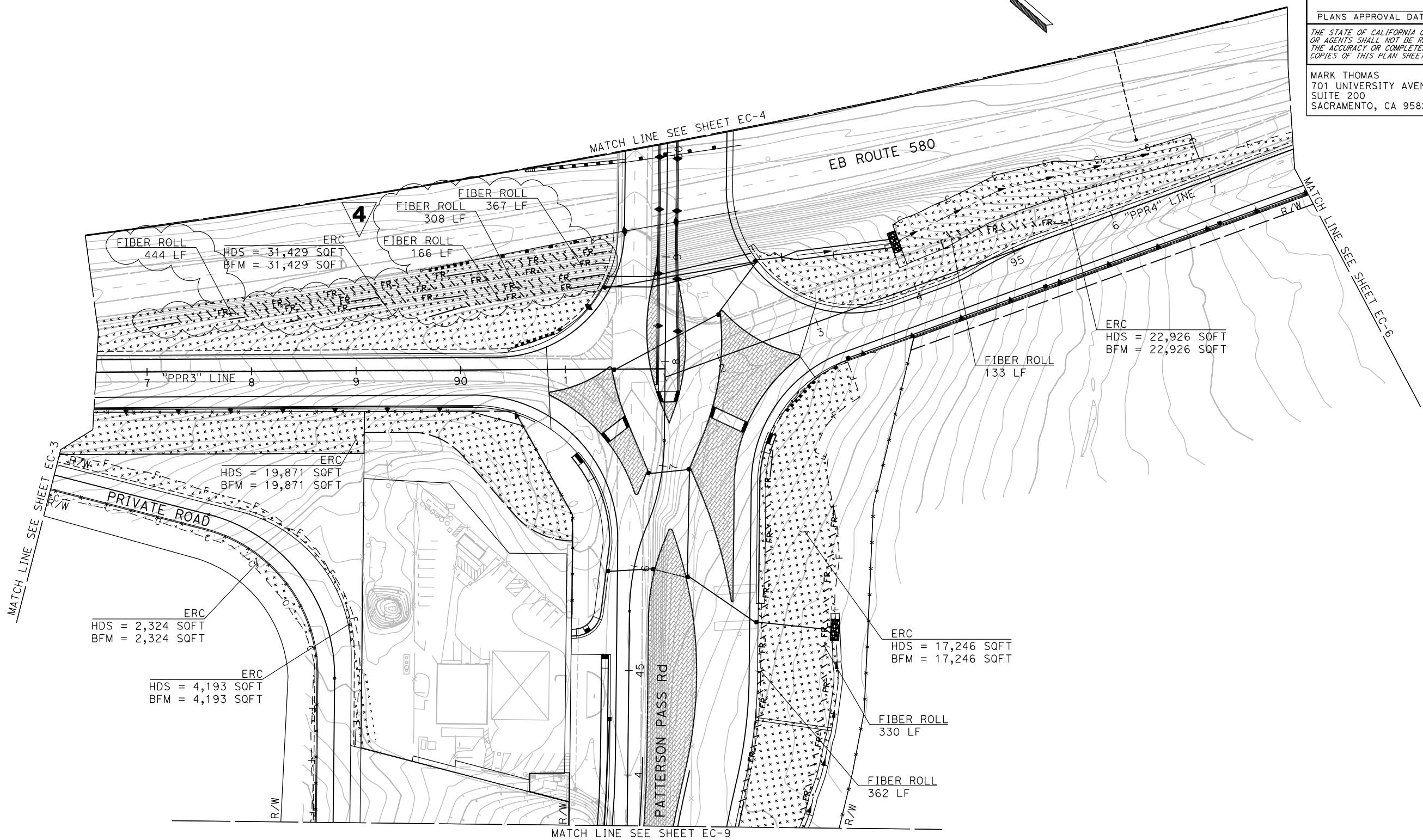
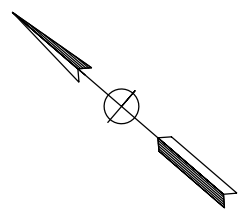
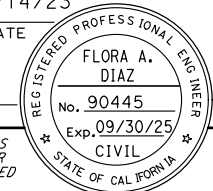
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	204	322

04/14/23
 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.

MARK THOMAS
 701 UNIVERSITY AVENUE
 SUITE 200
 SACRAMENTO, CA 95825

CITY OF TRACY
 333 CIVIC CENTER PLZ
 TRACY, CA 95376



4 REPLACED PER ADDENDUM No. 4 DATED MARCH 25, 2024

EROSION CONTROL PLAN
SCALE: 1" = 50'

FINAL SUBMITTAL

EC-5

APPROVED FOR EROSION CONTROL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

BORDER LAST REVISED 7/2/2010

USERNAME => m1am
DGN FILE => I-580_EC-5.dwg

RELATIVE BORDER SCALE IS IN INCHES

UNIT 0000

PROJECT NUMBER & PHASE

1015000011

LAST REVISION DATE PLOTTED => 25-Mgr-24
00-00-00 TIME PLOTTED => 14:43

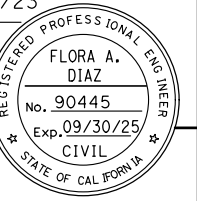
NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	205	322

Flora Diaz 04/14/23
REGISTERED CIVIL ENGINEER DATE

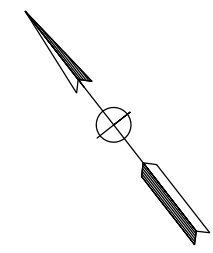
PLANS APPROVAL DATE

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.



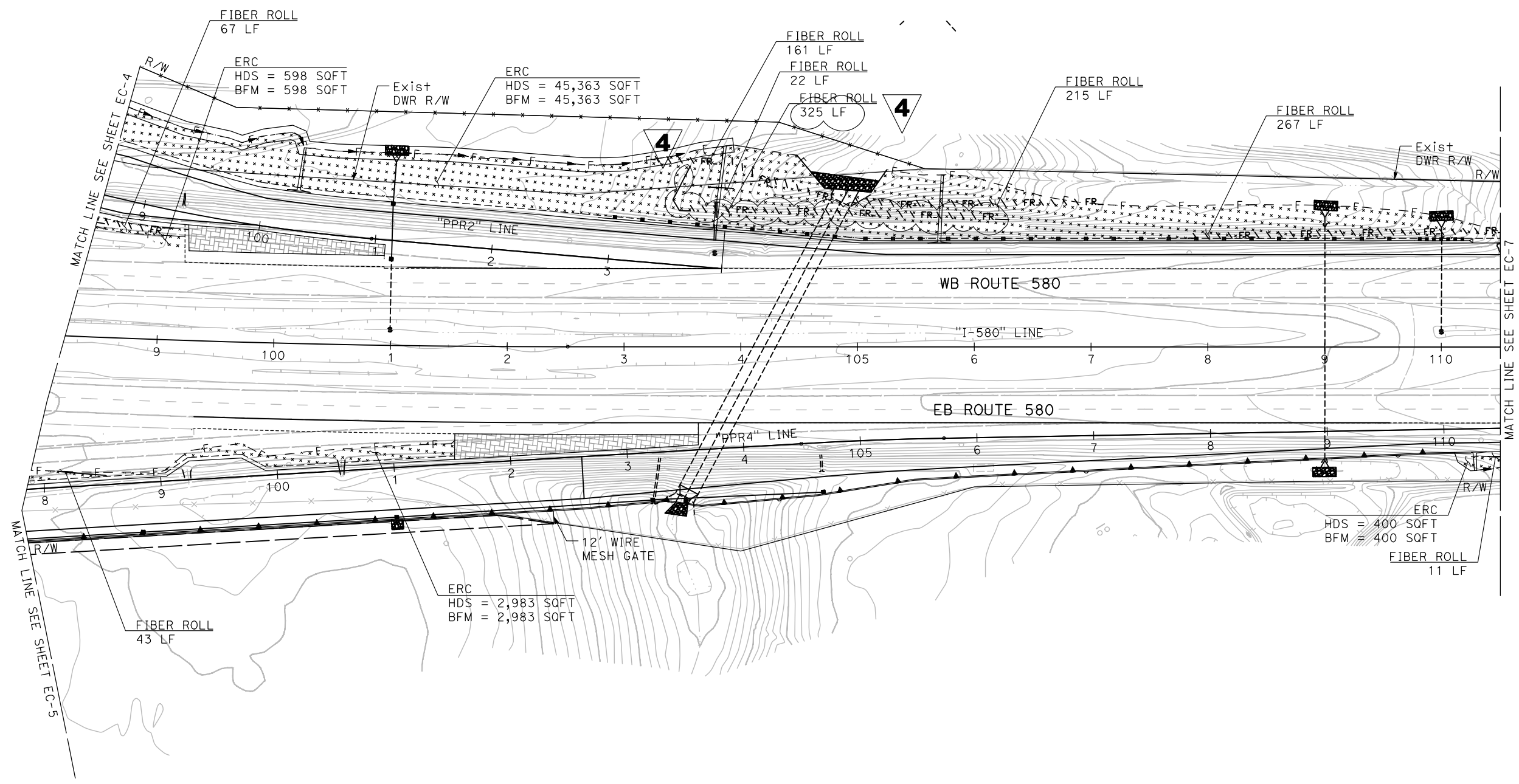
MARK THOMAS
701 UNIVERSITY AVENUE
SUITE 200
SACRAMENTO, CA 95825

CITY OF TRACY
333 CIVIC CENTER PLZ
TRACY, CA 95376



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: STEVEN B. BURICK
DESIGNED BY: G. CHUDABALA
CHECKED BY: F. DIAZ
REVISOR: G. CHUDABALA
DATE: 04/14/23



4 REPLACED PER ADDENDUM No. 4 DATED MARCH 25, 2024

EROSION CONTROL PLAN
SCALE: 1" = 50'

FINAL SUBMITTAL

EC-6

APPROVED FOR EROSION CONTROL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT FUNCTIONAL SUPERVISOR: STEVEN B. BURICK
 CALCULATED/DESIGNED BY: G. CHUDABALA
 CHECKED BY: F. DIAZ
 REVISED BY: [] DATE: []
 REVISOR: [] DATE: []

NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	206	322

Flora Diaz 04/14/23
 REGISTERED CIVIL ENGINEER DATE

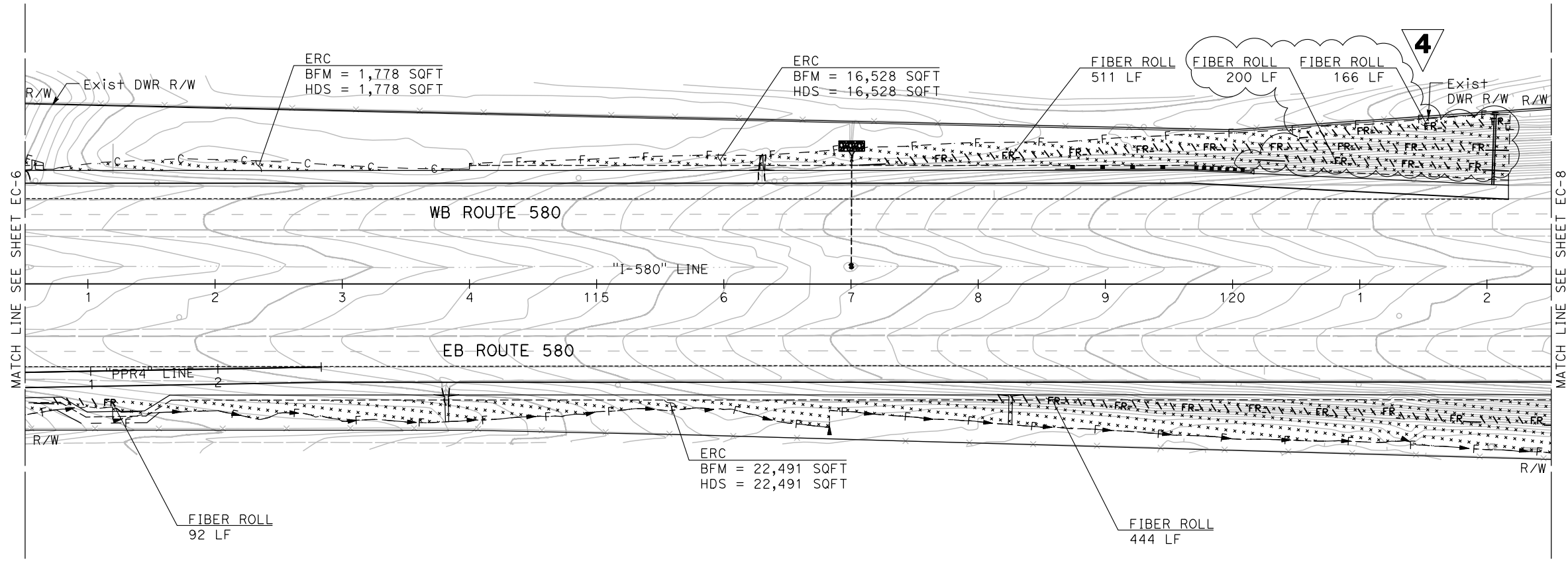
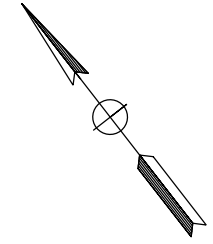
PLANS APPROVAL DATE

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.

MARK THOMAS
 701 UNIVERSITY AVENUE
 SUITE 200
 SACRAMENTO, CA 95825

CITY OF TRACY
 333 CIVIC CENTER PLZ
 TRACY, CA 95376

REGISTERED PROFESSIONAL ENGINEER
FLORA A. DIAZ
 No. 90445
 Exp. 09/30/25
 CIVIL
 STATE OF CALIFORNIA



4 REPLACED PER ADDENDUM No. 4 DATED MARCH 25, 2024

EROSION CONTROL PLAN
 SCALE: 1" = 50'

FINAL SUBMITTAL

EC-7

APPROVED FOR EROSION CONTROL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT FUNCTIONAL SUPERVISOR STEVEN B. BURICK
 CALCULATED-DESIGNED BY G. CHUDABALA
 CHECKED BY F. DIAZ
 REVISED BY
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	210	322

Flora Diaz 04/14/23
 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.

MARK THOMAS
 701 UNIVERSITY AVENUE
 SUITE 200
 SACRAMENTO, CA 95825

CITY OF TRACY
 333 CIVIC CENTER PLZ
 TRACY, CA 95376

EROSION CONTROL QUANTITIES

SHEET	HYDROSEED	BONDED FIBER MATRIX	COMPOST	FIBER ROLLS
	SQFT	SQFT	CY	LF
EC-1	24,231	24,231	162	713 1178
EC-2	41,322	41,322	277	1,300
EC-3	107,095	107,095	718	1,594
EC-4	175,147	175,147	1,173	2,197 3160
EC-5	66,560	66,560	446	825 2110
EC-6	49,344	49,344	331	810 1111
EC-7	40,797	40,797	273	1,047 1413
EC-8	27,672	27,672	185	777
EC-9	280,090	280,090	416	715
EC-10	17,226	17,226	115	550
TOTAL	829,484	829,484	4,097	10,528 13908

4

4 REPLACED PER ADDENDUM No. 4 DATED MARCH 25, 2024

EROSION CONTROL QUANTITIES

FINAL SUBMITTAL

ECQ-1

**4 ADDED PER ADDENDUM No. 4
DATED MARCH 25, 2024**

REFERENCE: CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (2022)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	282A	322

Chris A. Risdor
CERTIFIED ENGINEERING GEOLOGIST

October 21, 2022
PLANS APPROVAL DATE

REGISTERED GEOLOGIST
Chris A. Risdor
CERTIFIED ENGINEERING GEOLOGIST
No. 2541
Exp. 9-30-23
STATE OF CALIFORNIA

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.

TO ACCOMPANY PLANS DATED _____

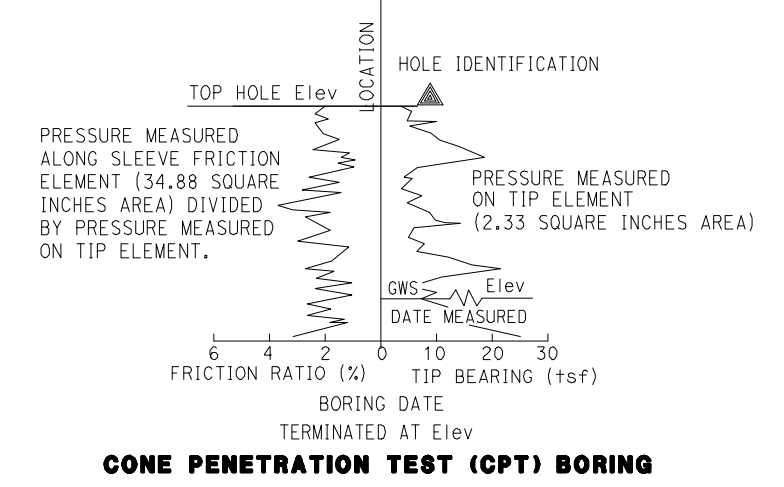
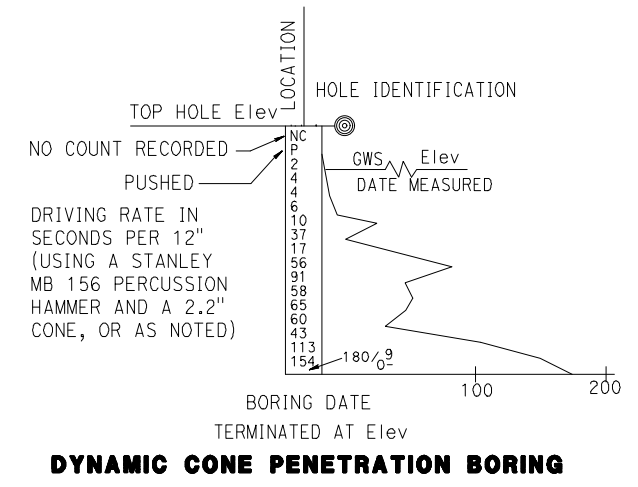
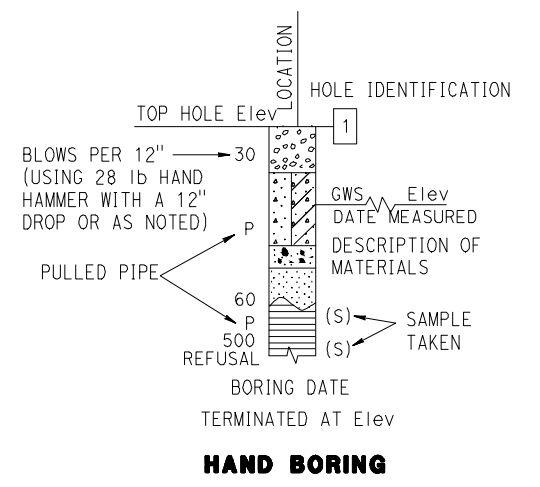
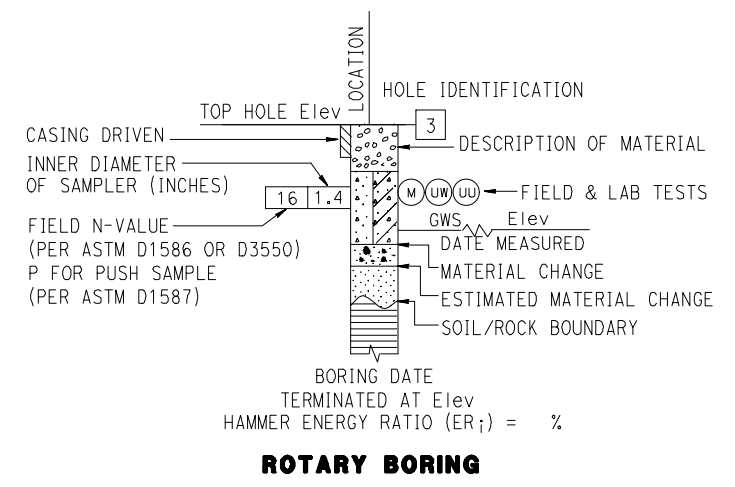
CEMENTATION	
DESCRIPTION	CRITERIA
WEAK	CRUMBLES OR BREAKS WITH HANDLING OR LITTLE FINGER PRESSURE.
MODERATE	CRUMBLES OR BREAKS WITH CONSIDERABLE FINGER PRESSURE.
STRONG	WILL NOT CRUMBLE OR BREAK WITH FINGER PRESSURE.

ABBREVIATION:
GWS = Ground Water Surface

BOREHOLE IDENTIFICATION		
SYMBOL	HOLE TYPE	DESCRIPTION
	A	AUGER BORING (HOLLOW OR SOLID STEM BUCKET)
	R	ROTARY DRILLED BORING (CONVENTIONAL)
	RW	ROTARY DRILLED WITH SELF-CASING WIRE-LINE
	RC	ROTARY CORE WITH CONTINUOUSLY-SAMPLED, SELF-CASING WIRE-LINE
	P	ROTARY PERCUSSION BORING (AIR)
	R	ROTARY DRILLED DIAMOND CORE
	RC	ROTARY DRILLED DIAMOND CORE, CONTINUOUSLY SAMPLED
	HD	HAND DRIVEN (1-INCH SOIL TUBE)
	HA	HAND AUGER
	D	DYNAMIC CONE PENETRATION BORING
	CPT	CONE PENETRATION TEST (ASTM D5778)
	O	OTHER (NOTE ON LOTB)

NOTE: SIZE IN INCHES.

CONSISTENCY OF COHESIVE SOILS				
DESCRIPTION	SHEAR STRENGTH (tsf)	POCKET PENETROMETER MEASUREMENT, PP, (tsf)	TORVANE MEASUREMENT, TV, (tsf)	VANE SHEAR MEASUREMENT, VS, (tsf)
VERY SOFT	LESS THAN 0.12	LESS THAN 0.25	LESS THAN 0.12	LESS THAN 0.12
SOFT	0.12 - 0.25	0.25 - 0.5	0.12 - 0.25	0.12 - 0.25
MEDIUM STIFF	0.25 - 0.5	0.5 - 1	0.25 - 0.5	0.25 - 0.5
STIFF	0.5 - 1	1 - 2	0.5 - 1	0.5 - 1
VERY STIFF	1 - 2	2 - 4	1 - 2	1 - 2
HARD	GREATER THAN 2	GREATER THAN 4	GREATER THAN 2	GREATER THAN 2



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**LEGEND - SOIL
(SHEET 1 OF 2)**

NO SCALE
RSP A10F DATED OCTOBER 21, 2022 SUPERSEDES STANDARD PLAN A10F
DATED AUGUST 1, 2022 - PAGE 9 OF THE STANDARD PLANS BOOK DATED 2022.

REVISED STANDARD PLAN RSP A10F

FILE IN: \City of Los Angeles\Information Systems\GIS\Projects\2022\Standard Plans\RSP A10F

2022 REVISED STANDARD PLAN RSP A10F

REFERENCE: CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (2022)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	580	12.6/14.3	282B	322

Chris A. Riden
CERTIFIED ENGINEERING GEOLOGIST

October 21, 2022
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 GEOLOGIST
Chris A. Riden
CERTIFIED ENGINEERING GEOLOGIST
No. 2541
Exp. 9-30-23
STATE OF CALIFORNIA

GROUP SYMBOLS AND NAMES					
GRAPHIC/SYMBOL	GROUP NAMES	GRAPHIC/SYMBOL	GROUP NAMES	GRAPHIC/SYMBOL	GROUP NAMES
	GW WELL-GRADED GRAVEL WELL-GRADED GRAVEL WITH SAND		CL LEAN CLAY LEAN CLAY WITH SAND LEAN CLAY WITH GRAVEL SANDY LEAN CLAY SANDY LEAN CLAY WITH GRAVEL GRAVELLY LEAN CLAY GRAVELLY LEAN CLAY WITH SAND		CL-ML SILTY CLAY SILTY CLAY WITH SAND SILTY CLAY WITH GRAVEL SANDY SILTY CLAY SANDY SILTY CLAY WITH GRAVEL GRAVELLY SILTY CLAY GRAVELLY SILTY CLAY WITH SAND
	GP POORLY-GRADED GRAVEL POORLY-GRADED GRAVEL WITH SAND		ML SILT SILT WITH SAND SILT WITH GRAVEL SANDY SILT SANDY SILT WITH GRAVEL GRAVELLY SILT GRAVELLY SILT WITH SAND		OL ORGANIC LEAN CLAY ORGANIC LEAN CLAY WITH SAND ORGANIC LEAN CLAY WITH GRAVEL SANDY ORGANIC LEAN CLAY SANDY ORGANIC LEAN CLAY WITH GRAVEL GRAVELLY ORGANIC LEAN CLAY GRAVELLY ORGANIC LEAN CLAY WITH SAND
	GW-GM WELL-GRADED GRAVEL WITH SILT WELL-GRADED GRAVEL WITH SILT AND SAND		OL ORGANIC SILT ORGANIC SILT WITH SAND ORGANIC SILT WITH GRAVEL SANDY ORGANIC SILT SANDY ORGANIC SILT WITH GRAVEL GRAVELLY ORGANIC SILT GRAVELLY ORGANIC SILT WITH SAND		CH FAT CLAY FAT CLAY WITH SAND FAT CLAY WITH GRAVEL SANDY FAT CLAY SANDY FAT CLAY WITH GRAVEL GRAVELLY FAT CLAY GRAVELLY FAT CLAY WITH SAND
	GW-GC WELL-GRADED GRAVEL WITH CLAY (OR SILTY CLAY) WELL-GRADED GRAVEL WITH CLAY AND SAND (OR SILTY CLAY AND SAND)		OH ORGANIC ELASTIC SILT ORGANIC ELASTIC SILT WITH SAND ORGANIC ELASTIC SILT WITH GRAVEL SANDY ORGANIC ELASTIC SILT SANDY ORGANIC ELASTIC SILT WITH GRAVEL GRAVELLY ORGANIC ELASTIC SILT GRAVELLY ORGANIC ELASTIC SILT WITH SAND		OL/OH ORGANIC SOIL ORGANIC SOIL WITH SAND ORGANIC SOIL WITH GRAVEL SANDY ORGANIC SOIL SANDY ORGANIC SOIL WITH GRAVEL GRAVELLY ORGANIC SOIL GRAVELLY ORGANIC SOIL WITH SAND
	GP-GM POORLY-GRADED GRAVEL WITH SILT POORLY-GRADED GRAVEL WITH SILT AND SAND		PT PEAT		COBBLES COBBLES AND BOULDERS BOULDERS
	GP-GC POORLY-GRADED GRAVEL WITH CLAY (OR SILTY CLAY) POORLY-GRADED GRAVEL WITH CLAY AND SAND (OR SILTY CLAY AND SAND)				
	GM SILTY GRAVEL SILTY GRAVEL WITH SAND				
	GC CLAYEY GRAVEL CLAYEY GRAVEL WITH SAND				
	GC-GM SILTY, CLAYEY GRAVEL SILTY, CLAYEY GRAVEL WITH SAND				
	SW WELL-GRADED SAND WELL-GRADED SAND WITH GRAVEL				
	SP POORLY-GRADED SAND POORLY-GRADED SAND WITH GRAVEL				
	SW-SM WELL-GRADED SAND WITH SILT WELL-GRADED SAND WITH SILT AND GRAVEL				
	SW-SC WELL-GRADED SAND WITH CLAY (OR SILTY CLAY) WELL-GRADED SAND WITH CLAY AND GRAVEL (OR SILTY CLAY AND GRAVEL)				
	SP-SM POORLY-GRADED SAND WITH SILT POORLY-GRADED SAND WITH SILT AND GRAVEL				
	SP-SC POORLY-GRADED SAND WITH CLAY (OR SILTY CLAY) POORLY-GRADED SAND WITH CLAY AND GRAVEL (OR SILTY CLAY AND GRAVEL)				
	SM SILTY SAND SILTY SAND WITH GRAVEL				
	SC CLAYEY SAND CLAYEY SAND WITH GRAVEL				
	SC-SM SILTY, CLAYEY SAND SILTY, CLAYEY SAND WITH GRAVEL				

FIELD AND LABORATORY TESTING	
(C)	CONSOLIDATION
(CR)	CORROSIVITY TESTING
(CU)	CONSOLIDATED UNDRAINED TRIAXIAL
(DS)	DIRECT SHEAR
(EI)	EXPANSION INDEX
(HC)	HYDRAULIC CONDUCTIVITY
(OC)	ORGANIC CONTENT-%
(PA)	PARTICLE SIZE ANALYSIS
(PI)	PLASTICITY INDEX LIQUID LIMIT
(PL)	POINT LOAD INDEX
(UC)	UNCONFINED COMPRESSION - SOIL UNCONFINED COMPRESSION - ROCK
(UU)	UNCONSOLIDATED UNDRAINED TRIAXIAL
(W)	200 SIEVE TEST

APPARENT DENSITY OF COHESIONLESS SOILS	
DESCRIPTION	SPT N ₆₀ (BLOWS / 12 INCHES)
VERY LOOSE	0 - 5
LOOSE	5 - 10
MEDIUM DENSE	10 - 30
DENSE	30 - 50
VERY DENSE	GREATER THAN 50

MOISTURE	
DESCRIPTION	CRITERIA
DRY	NO DISCERNABLE MOISTURE
MOIST	MOISTURE PRESENT, BUT NO FREE WATER
WET	VISIBLE FREE WATER

PERCENT OR PROPORTION OF SOILS	
DESCRIPTION	CRITERIA
TRACE	PARTICLES ARE PRESENT BUT ESTIMATED TO BE LESS THAN 5%
FEW	5% - 10%
LITTLE	15% - 25%
SOME	30% - 45%
MOSTLY	50% - 100%

PARTICLE SIZE		
DESCRIPTION	SIZE	
BOULDER	GREATER THAN 12"	
COBBLE	3" - 12"	
GRAVEL	COARSE	3/4" - 3"
	FINE	1/5" - 3/4"
SAND	COARSE	1/16" - 1/5"
	MEDIUM	1/64" - 1/16"
	FINE	1/300" - 1/64"
SILT AND CLAY	LESS THAN 1/300"	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
LEGEND - SOIL
(SHEET 2 OF 2)
NO SCALE

RSP A10G DATED OCTOBER 21, 2022 SUPERSEDES STANDARD PLAN A10G DATED AUGUST 1, 2022 - PAGE 10 OF THE STANDARD PLANS BOOK DATED 2022.

REVISED STANDARD PLAN RSP A10G

4 ADDED PER ADDENDUM No. 4
DATED MARCH 25, 2024

FILE PATH: \\F:\Users\jfranklin\OneDrive\Documents\Projects\2022\Standard Plans\A10G\Sheet 2 of 2.dwg

2022 REVISED STANDARD PLAN RSP A10G

REFERENCE: CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (2022)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	282C	322

Chris A. Riden
CERTIFIED ENGINEERING GEOLOGIST

October 21, 2022
PLANS APPROVAL DATE

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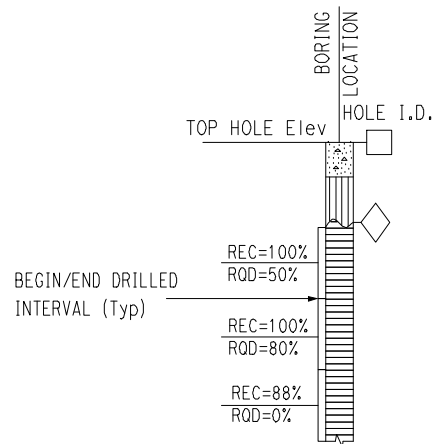
REGISTERED GEOLOGIST
Chris A. Riden
No. 2541
Exp. 9-30-23
STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED _____

PERCENT CORE RECOVERY (REC) & ROCK QUALITY DESIGNATION (RQD)

$$REC = \frac{\sum \text{LENGTH OF THE RECOVERED CORE PIECES (INCHES)}}{\text{TOTAL LENGTH OF CORE RUN (INCHES)}} \times 100\%$$

$$RQD = \frac{\sum \text{LENGTH OF INTACT CORE PIECES } \geq 4 \text{ INCHES}}{\text{TOTAL LENGTH OF CORE RUN (INCHES)}} \times 100\%$$



RQD* INDICATES SOUNDNESS CRITERIA NOT MET.

BEDDING SPACING

DESCRIPTION	THICKNESS / SPACING
MASSIVE	GREATER THAN 10'
VERY THICKLY BEDDED	3' - 10'
THICKLY BEDDED	1' - 3'
MODERATELY BEDDED	4" - 1'
THINLY BEDDED	1" - 4"
VERY THINLY BEDDED	¼" - 1"
LAMINATED	LESS THAN ¼"

LEGEND OF ROCK MATERIALS

- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

4 ADDED PER ADDENDUM No. 4 DATED MARCH 25, 2024

ROCK HARDNESS

DESCRIPTION	CRITERIA
EXTREMELY HARD	CANNOT BE SCRATCHED WITH A POCKETKNIFE OR SHARP PICK. CAN ONLY BE CHIPPED WITH REPEATED HEAVY HAMMER BLOWS.
VERY HARD	CANNOT BE SCRATCHED WITH A POCKETKNIFE OR SHARP PICK. BREAKS WITH REPEATED HEAVY HAMMER BLOWS.
HARD	CAN BE SCRATCHED WITH A POCKETKNIFE OR SHARP PICK WITH DIFFICULTY (HEAVY PRESSURE). BREAKS WITH HEAVY HAMMER BLOWS.
MODERATELY HARD	CAN BE SCRATCHED WITH POCKETKNIFE OR SHARP PICK WITH LIGHT OR MODERATE PRESSURE. BREAKS WITH MODERATE HAMMER BLOWS.
MODERATELY SOFT	CAN BE GROOVED 1/16 INCH DEEP WITH A POCKETKNIFE OR SHARP PICK WITH MODERATE OR HEAVY PRESSURE. BREAKS WITH LIGHT HAMMER BLOW OR HEAVY MANUAL PRESSURE.
SOFT	CAN BE GROOVED OR GOUGED EASILY BY A POCKETKNIFE OR SHARP PICK WITH LIGHT PRESSURE, CAN BE SCRATCHED WITH FINGERNAIL. BREAKS WITH LIGHT TO MODERATE MANUAL PRESSURE.
VERY SOFT	CAN BE READILY INDENTED, GROOVED OR GOUGED WITH FINGERNAIL, OR CARVED WITH A POCKETKNIFE. BREAKS WITH LIGHT MANUAL PRESSURE.

WEATHERING DESCRIPTORS FOR INTACT ROCK

DESCRIPTION	DIAGNOSTIC FEATURES					GENERAL CHARACTERISTICS
	CHEMICAL WEATHERING-DISCOLORATION AND/OR OXIDATION		MECHANICAL WEATHERING-GRAIN BOUNDARY CONDITIONS (DISAGGREGATION) PRIMARILY FOR GRANITICS AND SOME COARSE-GRAINED SEDIMENTS	TEXTURE AND LEACHING		
	BODY OF ROCK	FRACTURE SURFACES		TEXTURE	LEACHING	
FRESH	NO DISCOLORATION, NOT OXIDIZED.	NO DISCOLORATION OR OXIDATION.	NO SEPARATION, INTACT (TIGHT).	NO CHANGE	NO LEACHING	HAMMER RINGS WHEN CRYSTALLINE ROCKS ARE STRUCK.
SLIGHTLY WEATHERED	DISCOLORATION OR OXIDATION IS LIMITED TO SURFACE OF, OR SHORT DISTANCE FROM, FRACTURES; SOME FELDSPAR CRYSTALS ARE DULL.	MINOR TO COMPLETE DISCOLORATION OR OXIDATION OF MOST SURFACES.	NO VISIBLE SEPARATION, INTACT (TIGHT).	PRESERVED	MINOR LEACHING OF SOME SOLUBLE MINERALS.	HAMMER RINGS WHEN CRYSTALLINE ROCKS ARE STRUCK. BODY OF ROCK NOT WEAKENED.
MODERATELY WEATHERED	DISCOLORATION OR OXIDATION EXTENDS FROM FRACTURES USUALLY THROUGHOUT; Fe-Mg MINERALS ARE "RUSTY," FELDSPAR CRYSTALS ARE "CLOUDY."	ALL FRACTURE SURFACES ARE DISCOLORED OR OXIDIZED.	PARTIAL SEPARATION OF BOUNDARIES VISIBLE.	GENERALLY PRESERVED	SOLUBLE MINERALS MAY BE MOSTLY LEACHED.	HAMMER DOES NOT RING WHEN ROCK IS STRUCK. BODY OF ROCK IS SLIGHTLY WEAKENED.
INTENSELY WEATHERED	DISCOLORATION OR OXIDATION THROUGHOUT; ALL FELDSPARS AND Fe-Mg MINERALS ARE ALTERED TO CLAY TO SOME EXTENT; OR CHEMICAL ALTERATION PRODUCES IN-SITU DISAGGREGATION, SEE GRAIN BOUNDARY CONDITIONS.	ALL FRACTURE SURFACES ARE DISCOLORED OR OXIDIZED, SURFACES FRIABLE.	PARTIAL SEPARATION, ROCK IS FRIABLE; IN SEMIARID CONDITIONS GRANITICS ARE DISAGGREGATED.	TEXTURE ALTERED BY CHEMICAL DISINTEGRATION (HYDRATION, ARGILLATION).	LEACHING OF SOLUBLE MINERALS MAY BE COMPLETE.	DULL SOUND WHEN STRUCK WITH HAMMER, USUALLY CAN BE BROKEN WITH MODERATE TO HEAVY MANUAL PRESSURE OR BY LIGHT HAMMER BLOW WITHOUT REFERENCE TO PLANES OF WEAKNESS SUCH AS INCIPIENT OR HAIRLINE FRACTURES, OR VEINLETS. ROCK IS SIGNIFICANTLY WEAKENED.
DECOMPOSED	DISCOLORED OR OXIDIZED THROUGHOUT, BUT RESISTANT MINERALS SUCH AS QUARTZ MAY BE UNALTERED; ALL FELDSPARS AND Fe-Mg MINERALS ARE COMPLETELY ALTERED TO CLAY.		COMPLETE SEPARATION OF GRAIN BOUNDARIES (DISAGGREGATED).	RESEMBLES A SOIL, PARTIAL OR COMPLETE REMNANT ROCK STRUCTURE MAY BE PRESERVED; LEACHING OF SOLUBLE MINERALS USUALLY COMPLETE.		CAN BE GRANULATED BY HAND. RESISTANT MINERALS SUCH AS QUARTZ MAY BE PRESENT AS "STRINGERS" OR "DIKES."

FRACTURE DENSITY

DESCRIPTION	OBSERVED FRACTURE DENSITY
UNFRACTURED	NO FRACTURES.
VERY SLIGHTLY FRACTURED	CORE LENGTHS GREATER THAN 3 ft.
SLIGHTLY FRACTURED	CORE LENGTHS MOSTLY FROM 1 TO 3 ft.
MODERATELY FRACTURED	CORE LENGTHS MOSTLY FROM 4 INCHES TO 1 ft.
INTENSELY FRACTURED	CORE LENGTHS MOSTLY FROM 1 TO 4 INCHES.
VERY INTENSELY FRACTURED	MOSTLY CHIPS AND FRAGMENTS.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
LEGEND - ROCK

NO SCALE
RSP A10H DATED OCTOBER 21, 2022 SUPERSEDES STANDARD PLAN A10H DATED AUGUST 1, 2022 - PAGE 11 OF THE STANDARD PLANS BOOK DATED 2022.

REVISED STANDARD PLAN RSP A10H

FILED IN THE OFFICE OF THE CLERK OF THE SUPERIOR COURT OF CALIFORNIA, COUNTY OF SAN JUAN BAPTIST, AT THE CLERK'S OFFICE, 1000 J STREET, SAN JUAN BAPTIST, CALIFORNIA 94080

2022 REVISED STANDARD PLAN RSP A10H

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	282E	322

Lee J. Haber
REGISTERED CIVIL ENGINEER

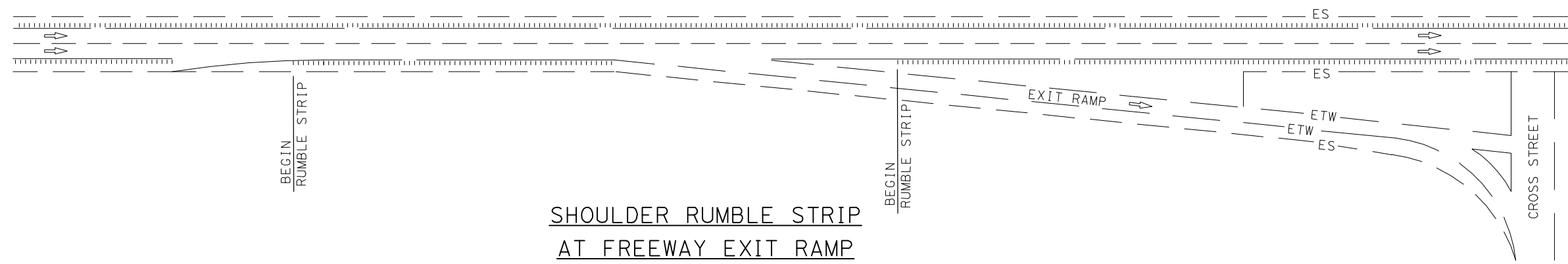
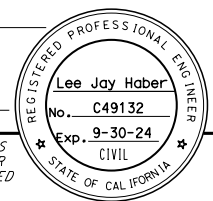
October 21, 2022
PLANS APPROVAL DATE

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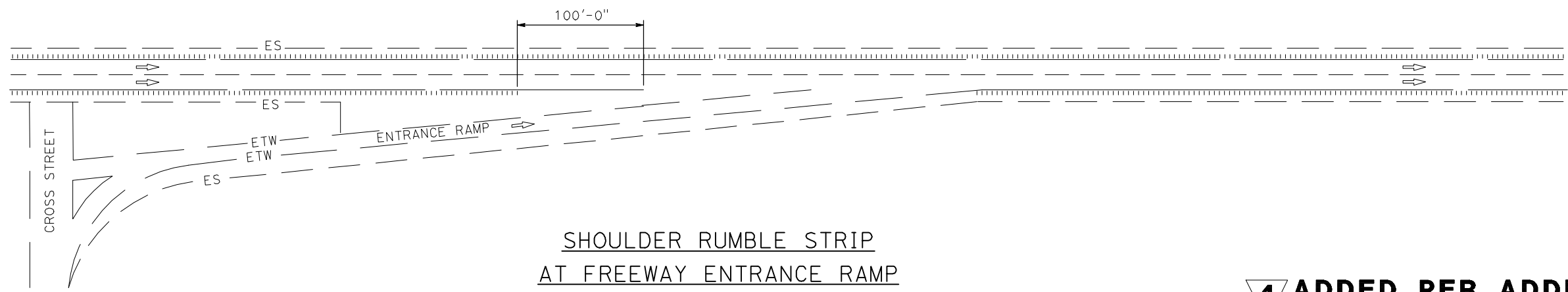
TO ACCOMPANY PLANS DATED _____

NOTE:
1. Lengthen to 200' when shoulder has an approach taper.

LEGEND:
..... RUMBLE STRIP (GROUND-IN)

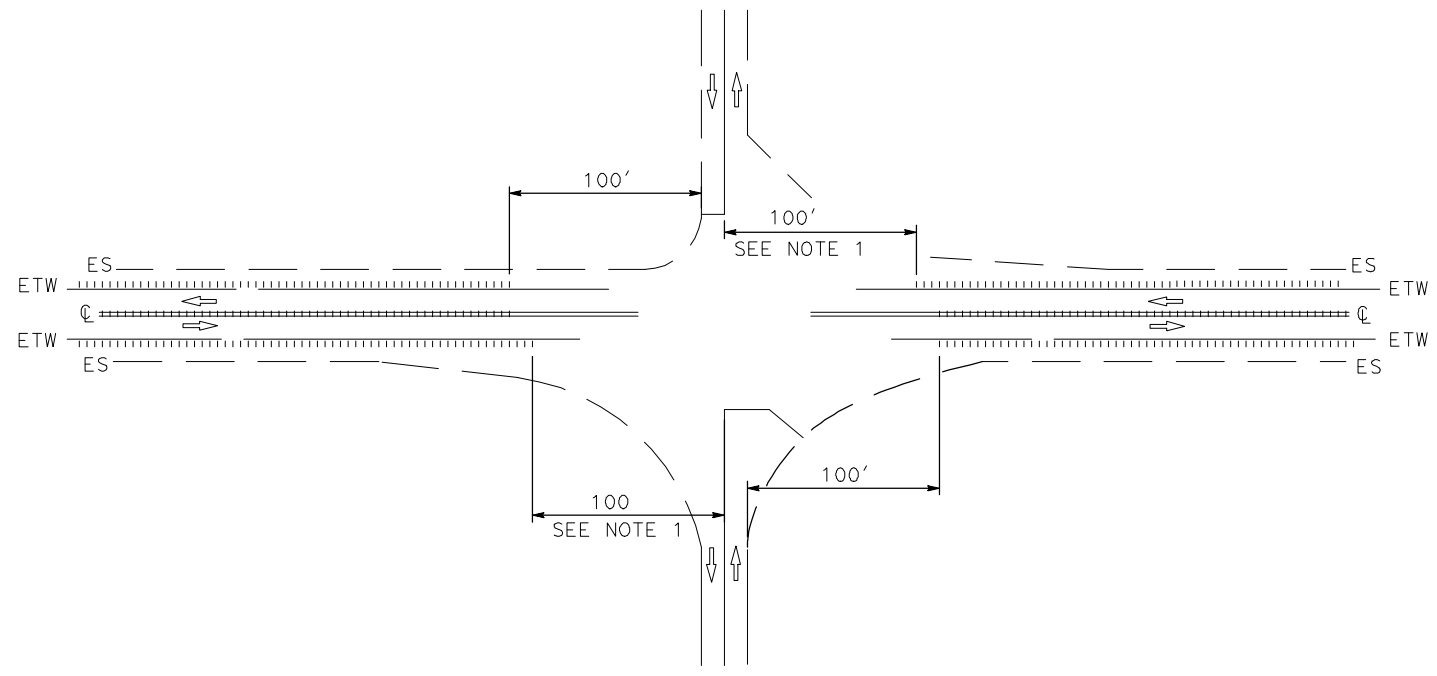


SHOULDER RUMBLE STRIP AT FREEWAY EXIT RAMP



SHOULDER RUMBLE STRIP AT FREEWAY ENTRANCE RAMP

4 ADDED PER ADDENDUM No. 4
DATED MARCH 25, 2024



CENTER LINE AND SHOULDER RUMBLE STRIP AT INTERSECTION

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**RUMBLE STRIP PLACEMENT AT
FREEWAY EXIT RAMPS,
FREEWAY ENTRANCE RAMPS,
AND INTERSECTIONS**

NO SCALE

RSP A40E DATED OCTOBER 21, 2022 SUPERSEDES STANDARD PLAN A40E
DATED AUGUST 1, 2022 - PAGE 30 OF THE STANDARD PLANS BOOK DATED 2022.

REVISED STANDARD PLAN RSP A40E

2022 REVISED STANDARD PLAN RSP A40E

FILE: \City of Los Angeles\ITIS\Commuter Support\580\Projects\580\580-RSP-A40E\580-RSP-A40E.dwg

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	580	12.6/14.3	282F	322

emad
REGISTERED CIVIL ENGINEER

October 21, 2022
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
Carl M. Duan
No. C59976
Exp. 6-30-24
CIVIL
STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED _____

DESIGN NOTES:

Design: AASHTO LRFD Bridge Design Specifications, 8th edition with California Amendments. INDIRECT DESIGN METHOD

Soil: w Fe = 162 pcf Installation Type 1
w Fe = 168 pcf Installation Types 2 & 3
w = Unit weight of soil (pcf)
Fe = Soil-structure interaction factor

INSTALLATION TYPE 1:

The haunch and outer bedding shall be compacted to a minimum 90 percent relative compaction. In addition, the minimum sand equivalent in these areas shall be 30 and the maximum percentage passing the No. 200 sieve size shall be 5.

INSTALLATION TYPE 2:

The haunch and outer bedding shall be compacted to a minimum 90 percent relative compaction. In addition, the minimum sand equivalent in these areas shall be 25.

INSTALLATION TYPE 3:

The haunch and outer bedding shall be compacted to a minimum 85 percent relative compaction. 90 percent relative compaction will be required where the fill over the pipe is less than 4'-0" or 1/2 OD. In addition, the minimum sand equivalent in these areas shall be 25.

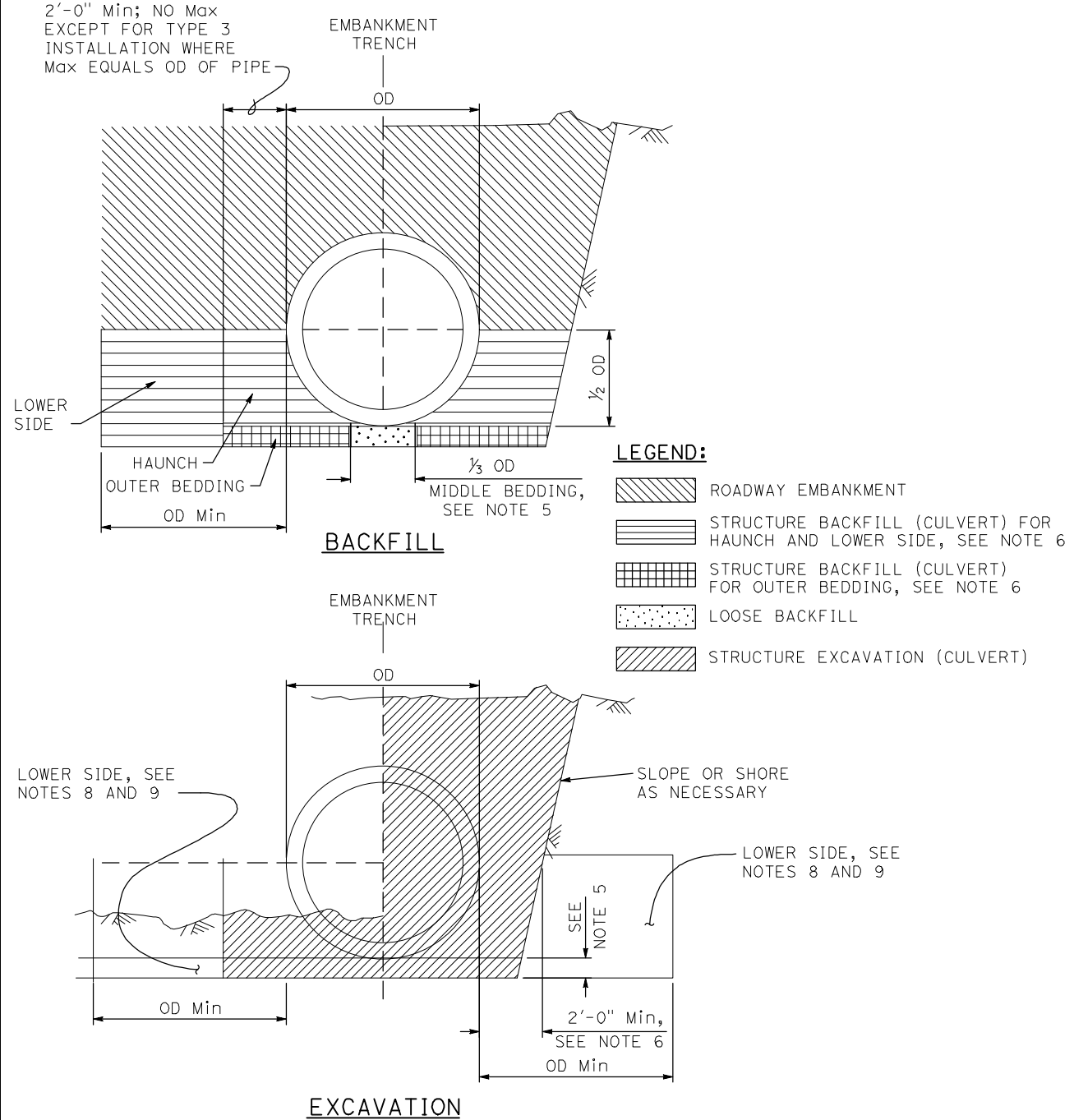
NOTES:

- Unless otherwise shown on the plans or specified in the special provisions, the Contractor shall have the option of selecting the class of RCP and the type of installation to be used, provided the height of cover does not exceed the value shown for the RCP selected.
Example: 24" RCP culvert with maximum cover of 24'-0" the options are:
a) Class III Special or stronger with Installation Type 1.
b) Class IV or stronger with Installation Type 2.
c) Class IV Special or stronger with Installation Type 3.
Cover is defined as the maximum vertical distance from top of the pipe to finished grade within the length of any given culvert.
- The class of RCP and Installation Type selected shall be the same throughout the length of any given culvert.
- The "length of any culvert" is defined as the culvert between:
a) Successive drainage structure (inlets, junction boxes, headwalls, etc.).
b) A drainage structure and the inlet or outlet end of the culvert.
c) The inlet and outlet end of the culvert when there are no intervening drainage structures.
- Elliptical shaped RCP shall not be used.
- Bedding depth: 1/24 OD Min, not less than 3" for soil foundation; 1/2 OD Min, not less 6" for rock foundation.
- Slurry cement backfill may be substituted for backfill in the outer bedding and haunch areas. If slurry is used, the outer and middle beddings shall be omitted. Prior to installation, the soil under the middle 1/3 of the outside diameter of the pipe shall be softened by scarifying or other means to a minimum depth of 1/24 OD, but not less than 3". Where slurry cement backfill is used, clear distance to trench wall may be reduced as set forth in the Standard Specifications.
- Backfill shall be placed full width of excavation except where dimensions are shown for backfill width or thickness. Dimensions shown are minimum.
- Structure backfill for lower side in embankment installations shall be the same as in haunch. Lower side in trench installation shall at least have the same firmness as in haunch.
- Where the pipe is placed in a trench, if the trench walls are sloped at 5 vertical to 1 horizontal or steeper for at least 90 percent of the trench height or up to not less than 12" from the grading plane, the firmness of the soil in the lower side need not be considered.

INSTALLATION TYPE 1		
MINIMUM CLASS AND D-LOAD	COVER	
	60" Dia AND SMALLER	OVER 60" Dia TO 120" Dia Max
CLASS II 1000D	14.9'	12.9'
CLASS III 1350D	15.0' - 21.3'	13.0' - 18.9'
CLASS III SPECIAL 1700D	22.0' - 26.8'	19.0' - 24.9'
CLASS IV 2000D	28.0' - 31.5'	25.0' - 29.9'
CLASS IV SPECIAL 2500D	33.0' - 37.8'	30.0' - 38.9'
CLASS V 3000D	42.0' - 47.5'	39.0' - 46.9'
CLASS V SPECIAL 3600D	50.0' - 57.3'	47.0' - 58.0'

INSTALLATION TYPE 2		
MINIMUM CLASS AND D-LOAD	COVER	
	60" Dia AND SMALLER	OVER 60" Dia TO 120" Dia Max
CLASS II 1000D	11.9'	9.9'
CLASS III 1350D	12.0' - 15.9'	10.0' - 14.9'
CLASS III SPECIAL 1700D	16.0' - 20.5'	15.0' - 19.9'
CLASS IV 2000D	21.0' - 24.3'	20.0' - 23.9'
CLASS IV SPECIAL 2500D	25.0' - 30.3'	24.0' - 30.9'
CLASS V 3000D	32.0' - 36.3'	31.0' - 37.9'
CLASS V SPECIAL 3600D	38.0' - 43.8'	38.0' - 46.0'

INSTALLATION TYPE 3		
MINIMUM CLASS AND D-LOAD	COVER	
	60" Dia AND SMALLER	OVER 60" Dia TO 120" Dia Max
CLASS II 1000D	8.9'	5.9'
CLASS III 1350D	9.0' - 11.9'	6.0' - 10.9'
CLASS III SPECIAL 1700D	12.0' - 15.9'	11.0' - 13.9'
CLASS IV 2000D	16.0' - 18.9'	14.0' - 17.9'
CLASS IV SPECIAL 2500D	19.0' - 23.3'	18.0' - 22.9'
CLASS V 3000D	25.0' - 28.3'	23.0' - 28.9'
CLASS V SPECIAL 3600D	30.0' - 34.3'	29.0' - 35.0'



4 ADDED PER ADDENDUM No. 4 DATED MARCH 25, 2024

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**EXCAVATION AND BACKFILL
CONCRETE PIPE CULVERTS
INDIRECT DESIGN METHOD**
NO SCALE

RSP A62DA DATED OCTOBER 21, 2022 SUPERSEDES STANDARD PLAN A62DA DATED AUGUST 1, 2022 - PAGE 38 OF THE STANDARD PLANS BOOK DATED 2022.

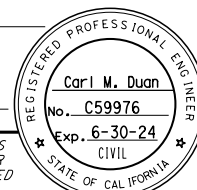
REVISED STANDARD PLAN RSP A62DA

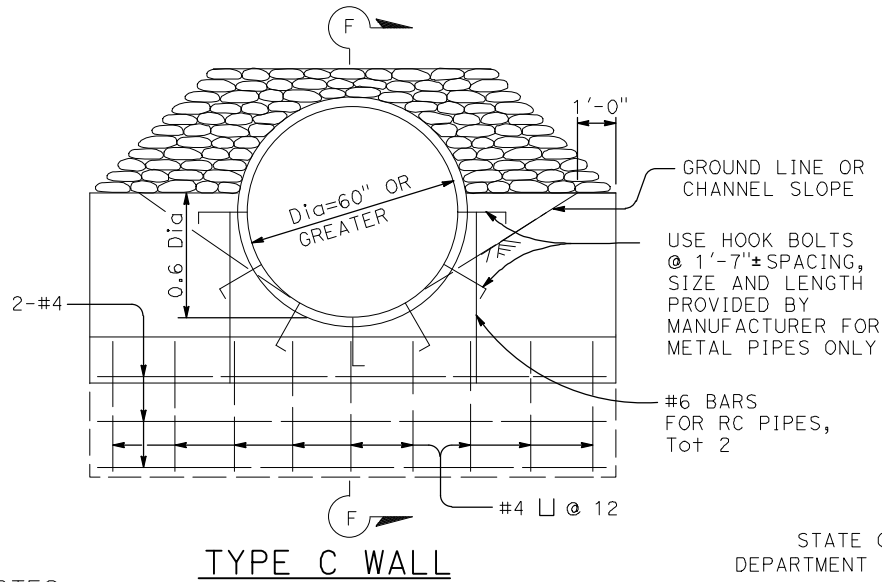
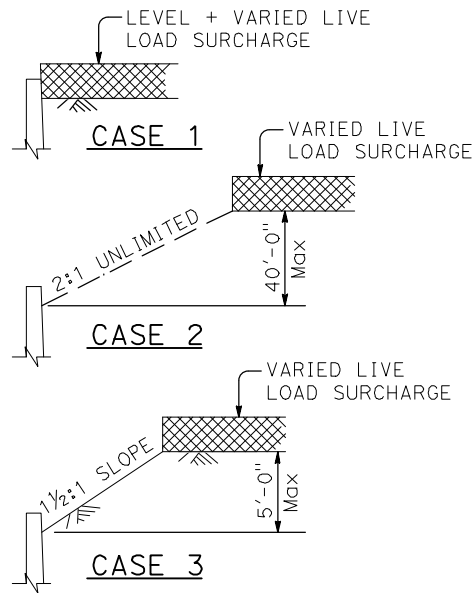
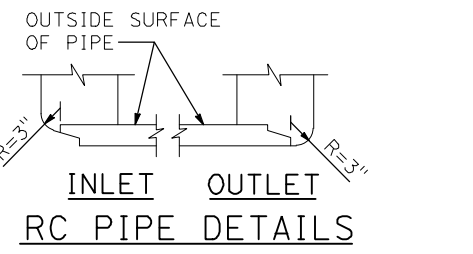
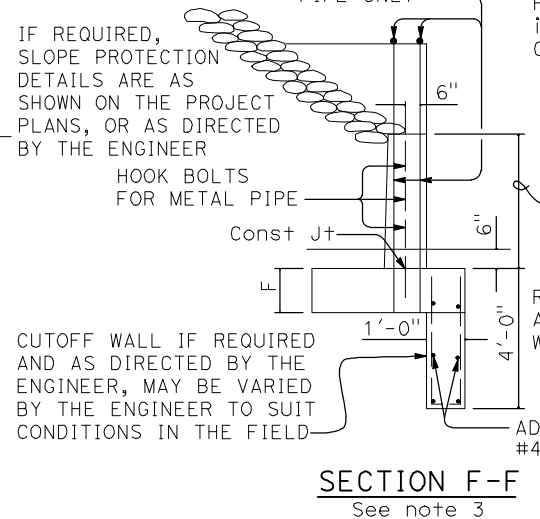
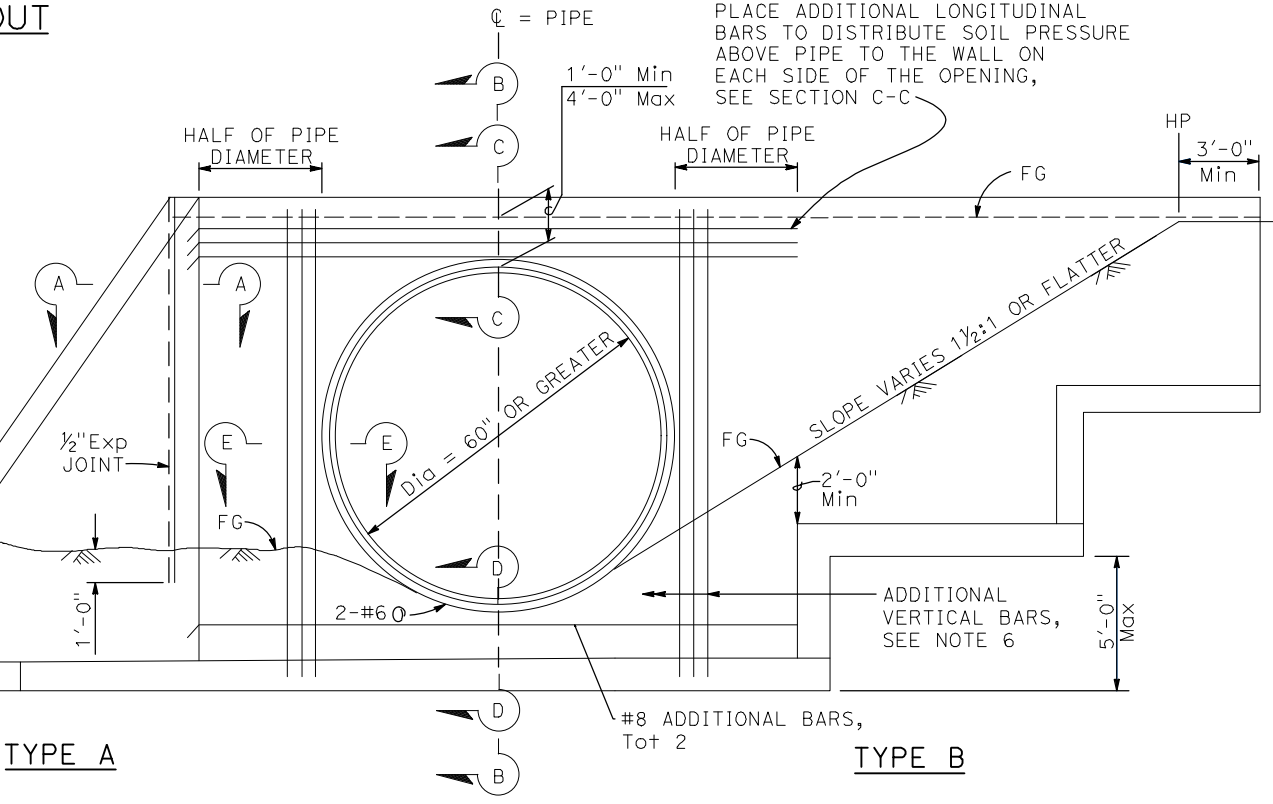
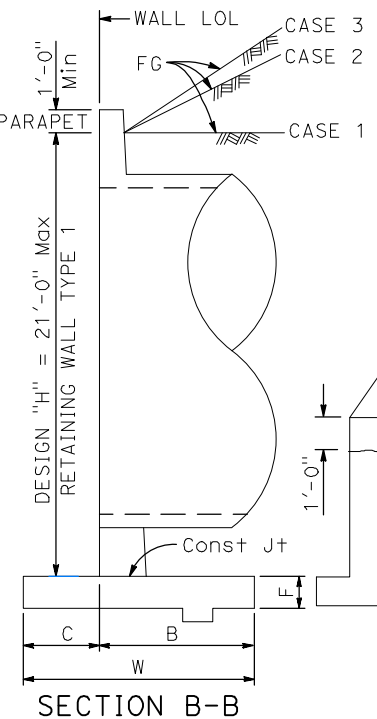
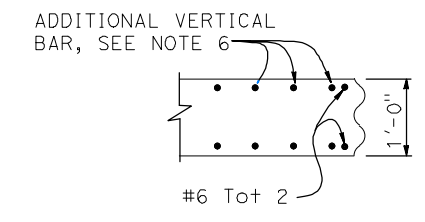
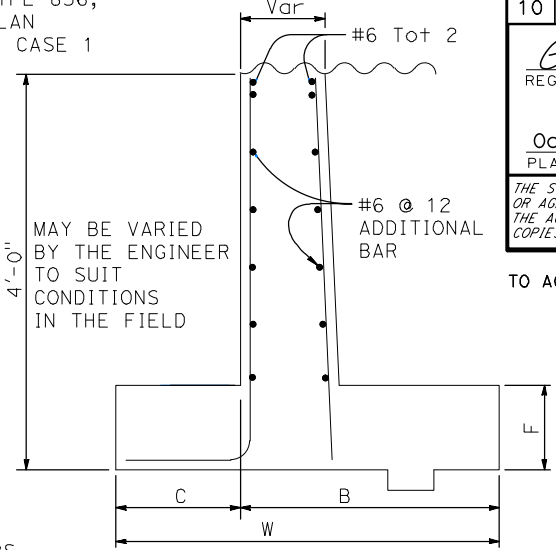
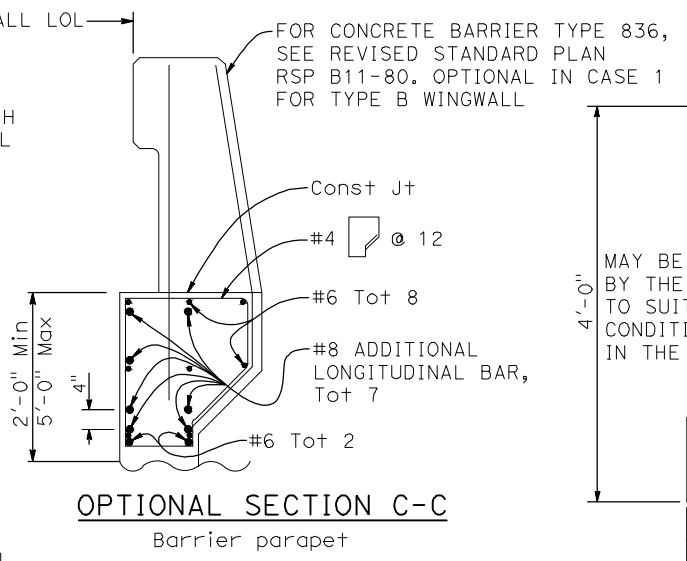
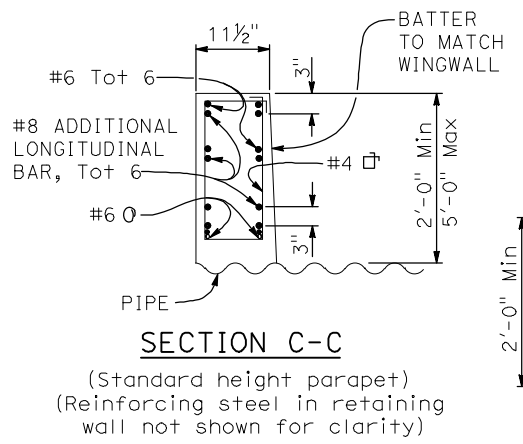
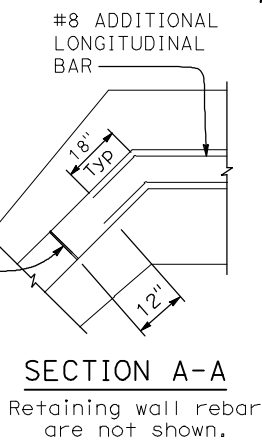
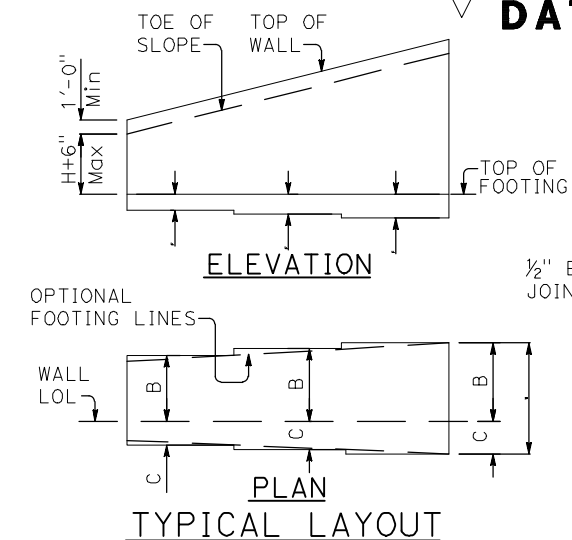
2022 REVISED STANDARD PLAN RSP A62DA

FILED AT THE OFFICE OF THE REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA, SAN FRANCISCO OFFICE, 101 CALIFORNIA STREET, SAN FRANCISCO, CA 94102

**4 ADDED PER ADDENDUM No. 4
DATED MARCH 25, 2024**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	580	12.6/14.3	282G	322

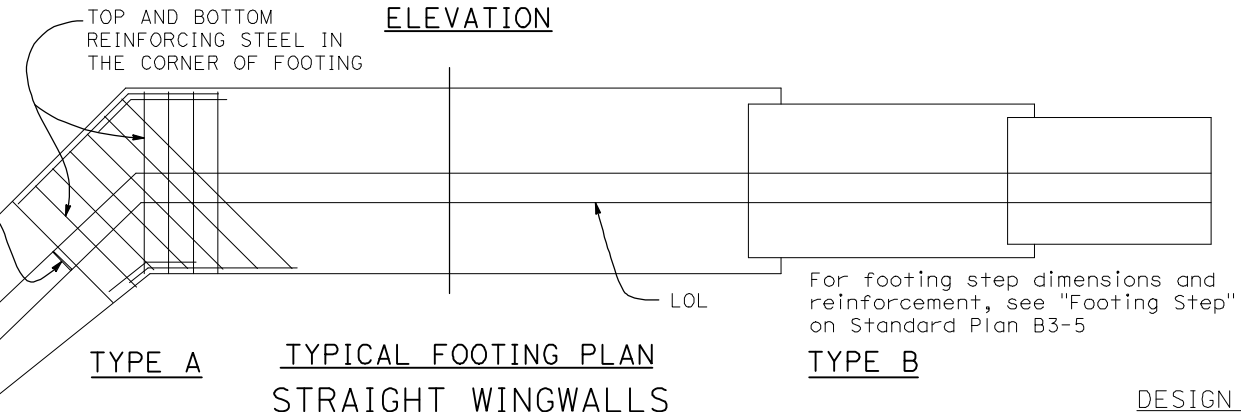

October 21, 2022
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



For information about dimensions C, B, F and W see Standard Plans B3-1A, B3-1B, B3-1C.

LEGEND:
SEE SECTION A-A
STANDARD PLAN SHEET No.
DETAIL No.

NOTES:
1. For design notes and details not shown for Type A and Type B wingwalls and headwalls, see Standard Plans B3-1A, B3-1B and B3-1C.
2. For Case 1 in Type B wall, concrete barrier can be installed on top of the headwall and wingwall as an option.
3. For details not shown for Type C wall, see Standard Plans B3-1B or B3-1C.



4. Elevation, length and angle of flare of wings may be varied by The Engineer to suit conditions encountered in the field.
5. Wall height may be exceeded by 6" before going to the next greater "H".
6. Adjacent to each side of the pipe opening, place additional vertical bars bent into footing equivalent to half of the cutoff main bars by the pipe.

DESIGN NOTES
DESIGN: AASHTO LRFD Bridge Design Specifications, 8th Edition with California Amendments, Preface dated 2019
SOIL: $\gamma = 120$ pcf, $\phi = 34^\circ$
LS: Varied live load surcharge on level ground surface
REINFORCED CONCRETE: $f'_c = 3,600$ psi, $f_y = 60,000$ psi

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PIPE CULVERT HEADWALLS, ENDWALLS AND WINGWALLS TYPES A, B AND C
NO SCALE
RSP D90 DATED OCTOBER 21, 2022 SUPERSEDES STANDARD PLAN D90 DATED AUGUST 1, 2022 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2022.
REVISED STANDARD PLAN RSP D90

2022 REVISED STANDARD PLAN RSP D90

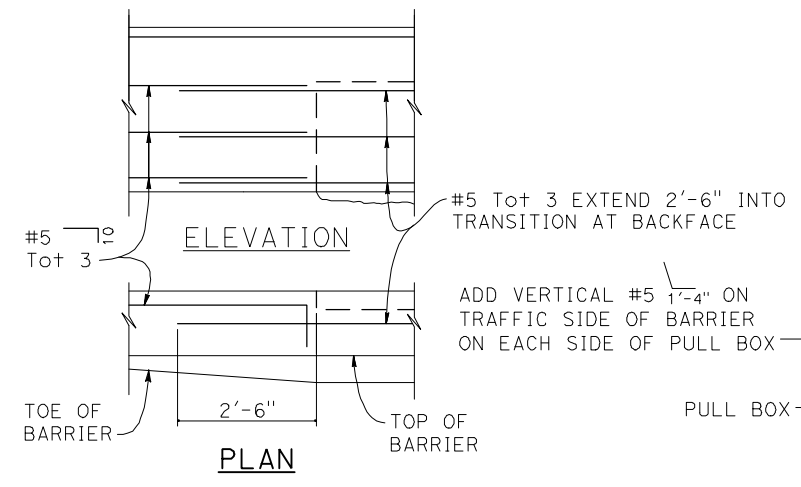
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	580	12.6/14.3	2821	322

REGISTERED CIVIL ENGINEER
Alman Malak
No. C73369
Exp. 12-31-22
CIVIL
STATE OF CALIFORNIA

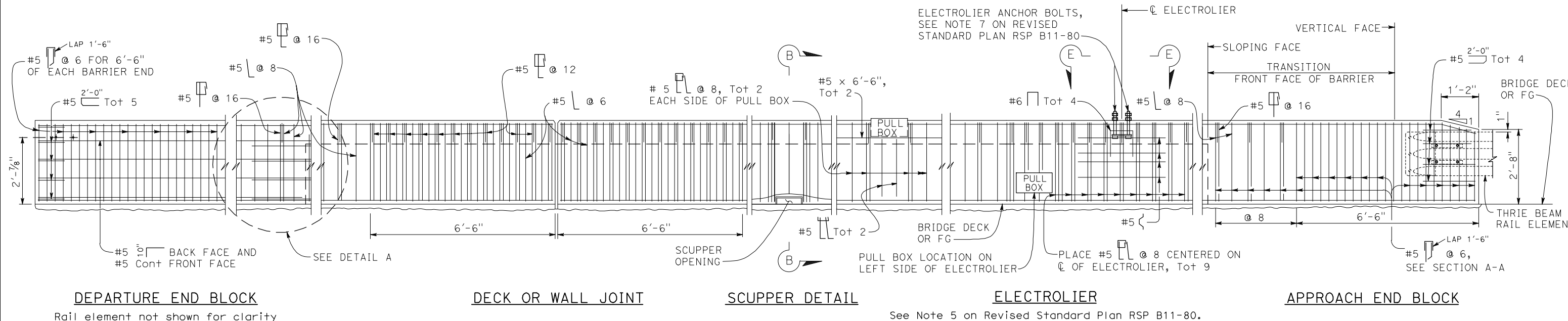
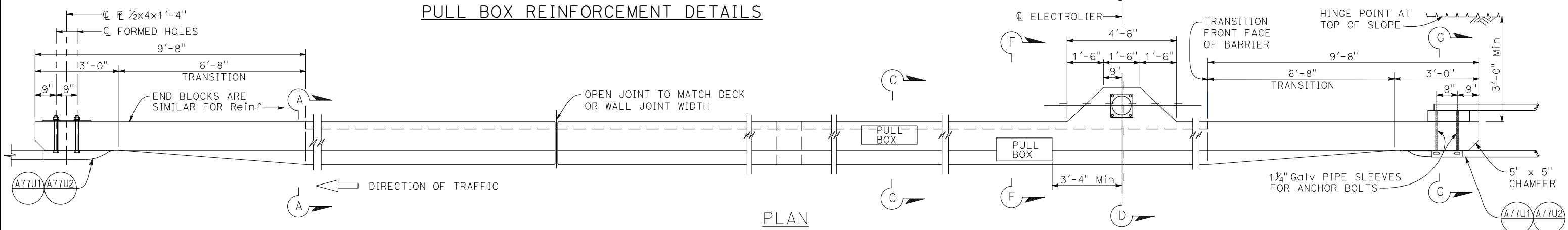
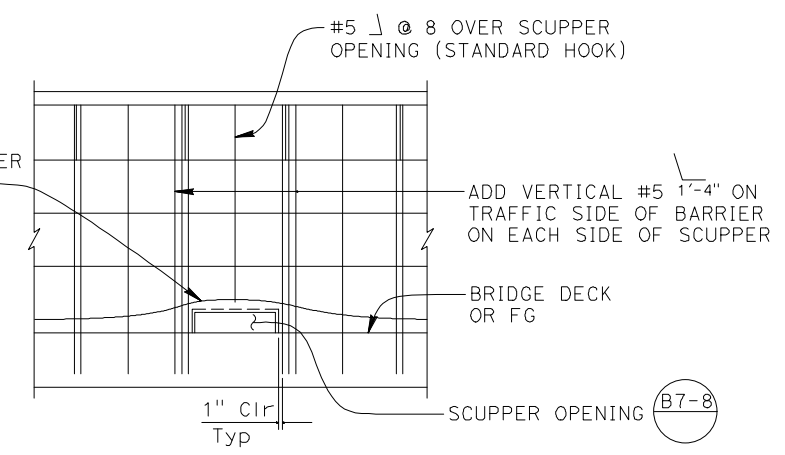
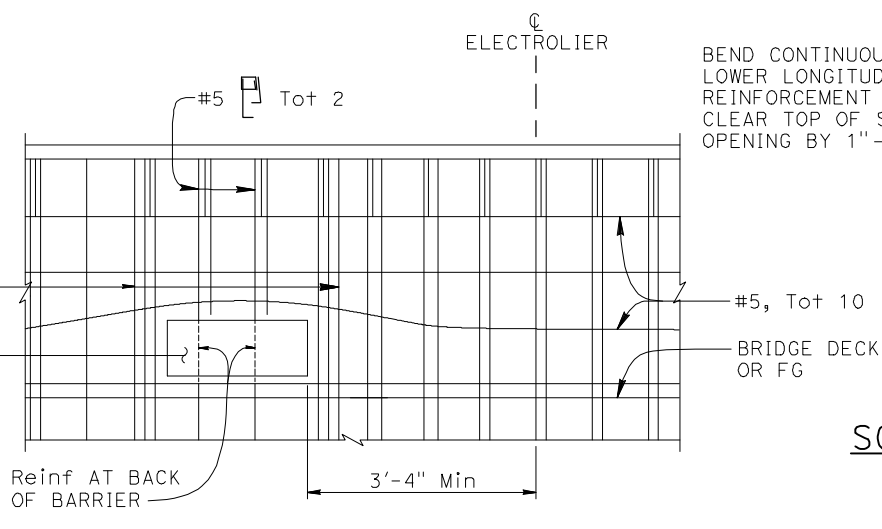
October 21, 2022
PLANS APPROVAL DATE

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.

TO ACCOMPANY PLANS DATED _____



NOTE: Approach end block similar.



- NOTES:**
- Not all reinforcement shown for clarity.
 - For Section A-A, Section B-B, Section C-C, Section D-D, View E-E, Section F-F and Section G-G, see Revised Standard Plan RSP B11-80.
 - If departure end block is within the Clear Recovery Zone (CRZ, 30 feet for expressways and freeways and 20 feet for conventional highways) of opposing traffic, then use the approach end block at departure end.
 - Minimum clear spacing between scupper and deck or wall joint is 7'-0".
Minimum clear spacing between scuppers is 10'-0".

**4 ADDED PER ADDENDUM No. 4
DATED MARCH 25, 2024**

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**CONCRETE BARRIER TYPE 836
DETAILS No. 1**
NO SCALE

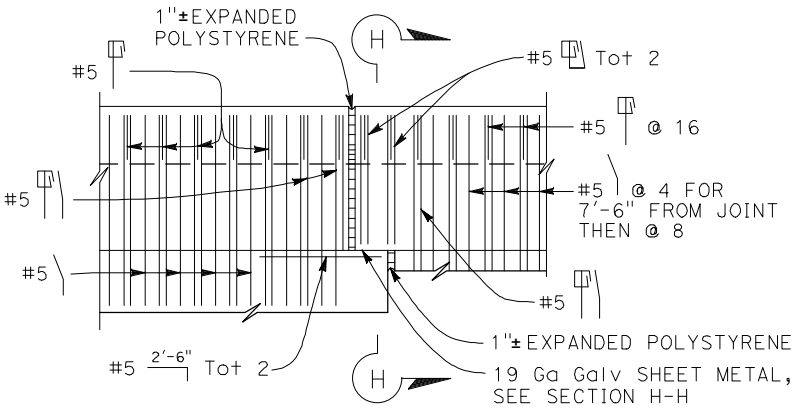
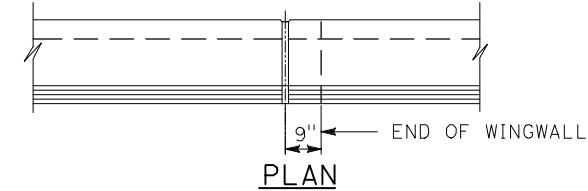
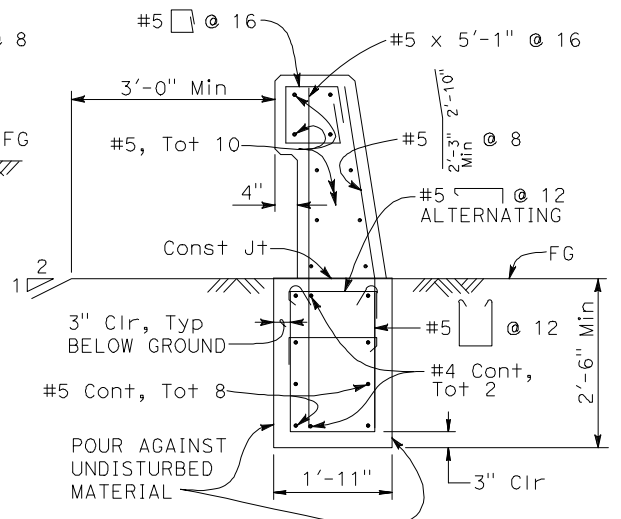
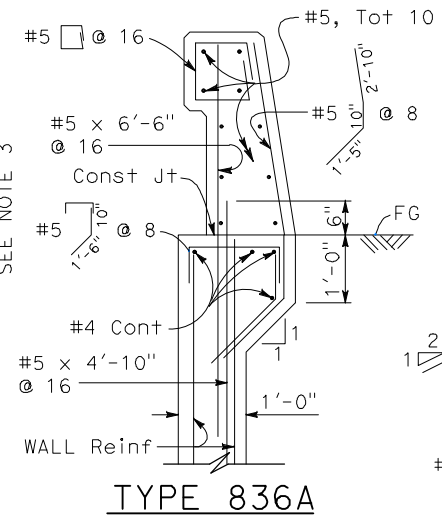
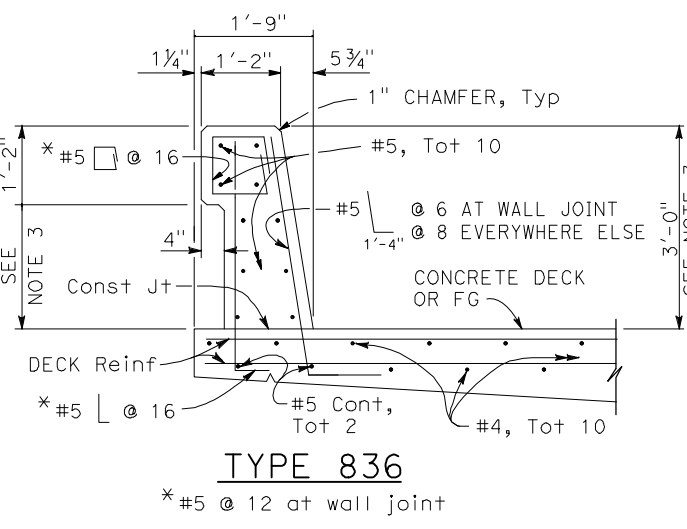
RSP B11-79 DATED OCTOBER 21, 2022 SUPERSEDES STANDARD PLAN B11-79
DATED AUGUST 1, 2022 - PAGE 405 OF THE STANDARD PLANS BOOK DATED 2022.

2022 REVISED STANDARD PLAN RSP B11-79

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	580	12.6/14.3	282J	322

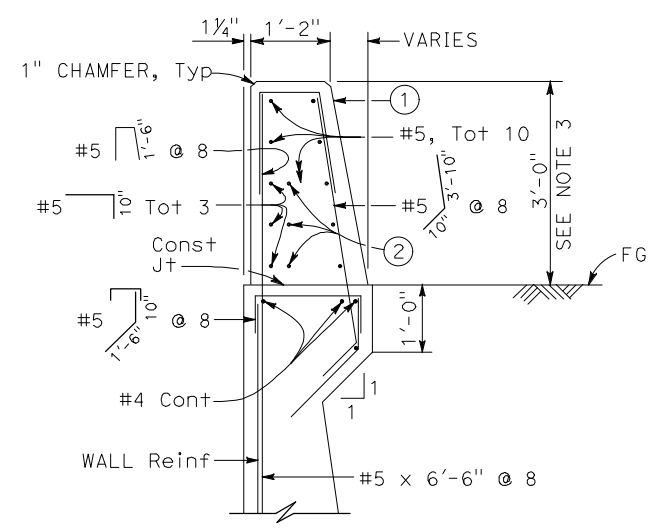
REGISTERED CIVIL ENGINEER
October 21, 2022
PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
Alman Malak
No. C73369
Exp. 12-31-22
CIVIL
STATE OF CALIFORNIA

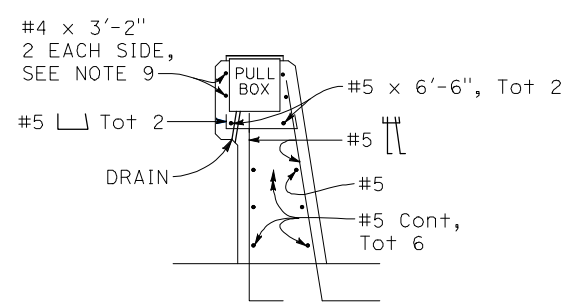
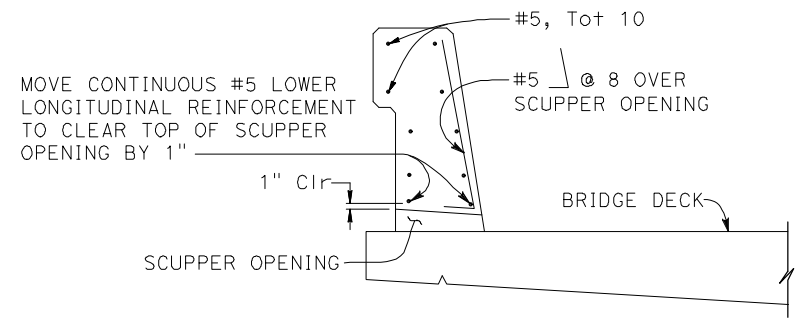


TYPE 836A TYPE 836B

NOTE:
Type 836A and Type 836B are similar to Type 836 except as noted.



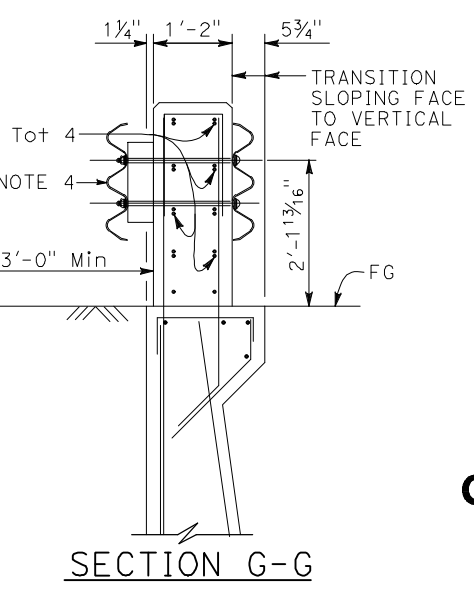
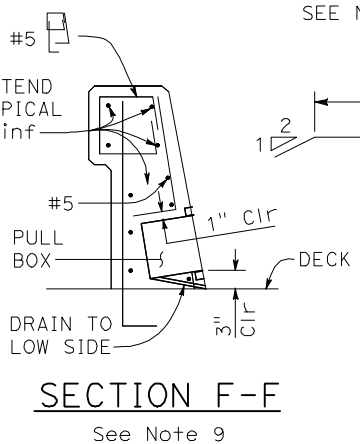
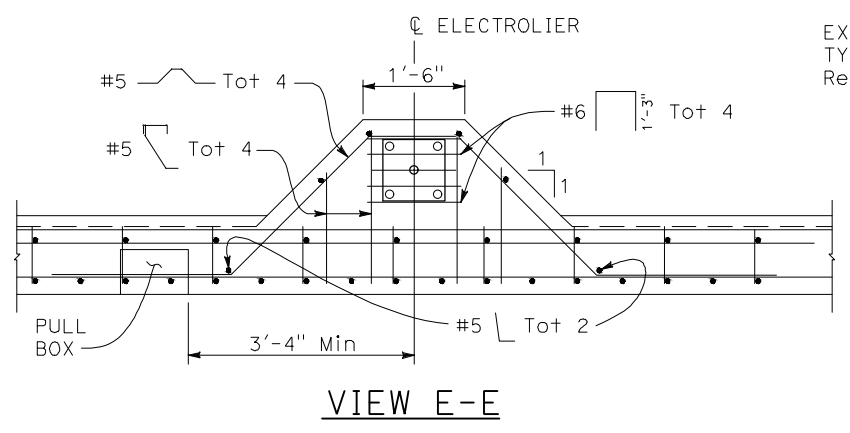
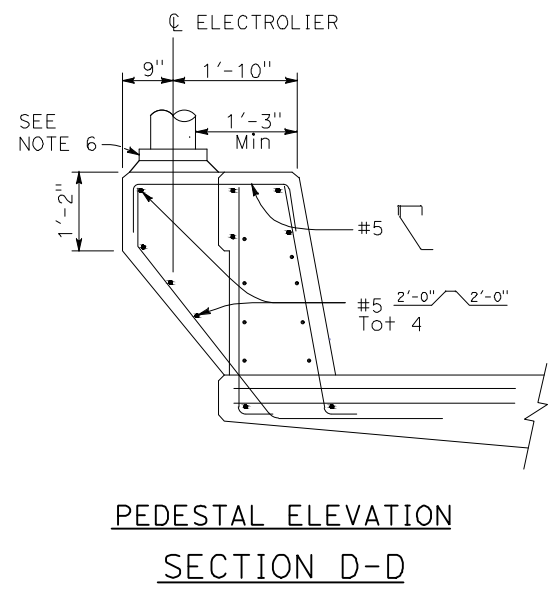
- ① Transition sloping face to vertical face.
- ② Extend lower reinforcement, total 3 at back face 2'-6" into transition. See Detail A on Revised Standard Plan RSP B11-79.



NOTES:

1. Walls shall be backfilled before barrier is placed.
2. Clearance to reinforcing steel in barrier shall be 2", except as noted. Longitudinal reinforcement to stop at all expansion joints.
3. Dimensions may vary with roadway cross slope and with certain thickness of surfacing. See roadway plans.
4. For typical metal railing connection details not shown, see Standard Plans A77U1 and A77U2.
5. See Standard Plans ES-9A, ES-9B, ES-9C, ES-9D, and ES-9E for electrical details. The maximum number of conduits in the barrier is limited to two 2" conduits along with one 3" conduit. When a 3" conduit is used, it is restricted to the base of the barrier.
6. For electrolier mounting details, see Standard Plans ES-6A and ES-6B.
7. Minimum concrete edge distance to the reinforcement shown shall be maintained. Edge distance may be adjusted to accommodate increase in concrete cover for architectural treatment.
8. Minimum length of Concrete Barrier Type 836B is 40'-0".
9. In front and back of pull box (Section C-C), the #4 x 3'-2" bars must be centered so that they extend minimum 8" beyond ends of pull box. As an alternative 4 x 4 - W12 x W12 welded fabric extending minimum 8" beyond ends of pull box may be substituted.

4 ADDED PER ADDENDUM No. 4 DATED MARCH 25, 2024



DEPARTMENT OF TRANSPORTATION
CONCRETE BARRIER TYPE 836
DETAILS No. 2

NO SCALE
RSP B11-80 DATED OCTOBER 21, 2022 SUPERSEDES STANDARD PLAN B11-80 DATED AUGUST 1, 2022 - PAGE 406 OF THE STANDARD PLANS BOOK DATED 2022.

2022 REVISED STANDARD PLAN RSP B11-80