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April 1, 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. 5

Attached is Addendum No. 5 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

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ADDENDUM NO. 5

Date: April 1, 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:

Q5.01 The existing Private Road, near PPR Line Sta. 46+50 has a metal pipe gate and metal pipe fencing that are not shown to be removed. We request the City confirm that these improvements do not require removal. If they require removal, we request the City provide a bid item for payment.

A5.01 See updated L-3, L-5, and C-27 for steel tubular post fence removal limits. Only the portion of the existing steel tubular fence along the Caltrans R/W will be removed to allow installation of new fence (Type BW). The existing steel tubular fence on private property outside Caltrans R/W including the pipe gate will remain. A new Bid Item "Remove Fence (Steel Tubular) is added for 120 LF. Note that there are notes on Sheet C-27 to relocate the existing mailbox and relocate a two-post sign. New Bid Items "Relocate Mailbox" and "Relocate Sign" are added for 1 EA for each item. Please refer to revised Bid Schedule (Attachment A).

Q5.02 Near PPR Line Sta. 45+50, where the existing Patterson Pass Road is to be widened, contains multiple Cargo Freight Trailers that are not shown to be removed. We request the City confirm that these do not require removal or that they will be moved by Others prior to the start of construction. If they require removal, we request the City provide a bid item for payment.

A5.02 They will be moved by others prior to the start of construction.

Q5.03 Per Addendum #2, which provided new grading sheets and no adjustment for Bid Item #39 - Roadway Excavation, Addendum # 3, increased the quantity of Bid Item #39 - Roadway

Excavation from 32,500 to 36,500 Cubic Yards. However, even with the increase of quantity of Roadway Excavation provided, and the lack of back-up quantities for the Summary of Quantities Sheet (Q-2), we are still coming up significantly with more quantities of Road Excavation. Please provide updated Summary of Quantities.

A5.03 Revised quantities and bid addendum sheets are included with Bid Addendum #5.

Q5.04 Once we do receive the additional information and/or clarifications we will need time to review, analyze and notify the various potential subcontractors and suppliers of these changes. Therefore, we are requesting a delay in the bid opening.

A5.04 Bid Opening cannot be postponed.

Q5.05 Per Bid Item #36 – Remove Concrete (CY) – 1,180 CY and the Summary of Quantities (Sheet Q-2), it is showing the following:

- PPR 47+58.80 to PPR 47+84.52 (LT) 100 CY of Curb A1-8

i. The actual footage is 25.72 LF from the stationing provided and the amount of concrete would be 0.793 CY.
ii. If using the EE Quantity of 100 CY, it would be 3,242.542 LF of curb removal.

- PPR 52+17.65 to PPR 53+17.97 (RT) 354 CY of Curb A1-8

i. The actual footage is 100.32 LF from the stationing provided and the amount of concrete would be 3.094 CY.
ii. If using the EE Quantity of 354 CY, it would be 11,478.599 LF of curb removal.

- PPR 44+87.98 to PPR 45+49.51 (LT) 725 CY of 9” PCC

i. The actual footage is 61.53 LF from the stationing provided.
ii. If using the EE Quantity of 725 CY, it would be 26,100 SF of 9” PCC Removal.
iii. Per Sheet C-27, it is only showing 973 SF of 9” PCC to be removed (27 cy).

A5.05 The quantity for Bid Item “Remove Concrete” is revised to 40 CY. Quantity Sheet Q-2 is revised and Bid Schedule revised (See Attachment A).

Q5.06 Plan Sheet ECL-1 has a table for the type of Erosion Control.
Which lists Step 1 – Compost
Step 2 – Seed & Bonded Fiber Matrix.
Plan Sheet ECQ-1 shows quantities for Hydroseed and Bonded Fiber Matrix.

The Bid Item List shows:
Bid Items No. 44 Bonded Fiber Matrix and No. 46 Hydroseed.

Please update the Table on Plan Sheet ECL-1 to include Hydroseed as one of the steps.
For example:
Step 1 – Compost
Step 2 – Hydroseed
Step 3 – Bonded Fiber Matrix (Seed moved to Hydroseed Step)

A5.06 Erosion Control Legend Sheet ECL-1 revised.

Q5.07 Off duty uniformed police assistance would be helpful to ensure the safety of our work crews and the motoring public during the I-580 detours through the existing traffic signals, when the signals are being modified, removed and energized, during overhead sign structure erection and when the standard diamond interchange is being converted to a diverging diamond interchange. Please confirm that off duty uniformed police be provided by the City of Tracy for the project?

A5.07 City cannot confirm that off duty uniformed police will be provided for the project.

Q5.08 Plan Sheet Q-2 lists a quantity for Bid Item No. 36, Remove Concrete, by the Cubic Yard. The quantities listed do not seem to be expressed in Cubic yards, but perhaps, instead in linear feet and/or cubic feet. Please verify that this quantity is correct and adjust the bid quantity accordingly.

A5.08 The quantity for Bid Item “Remove Concrete” is revised to 40 CY. Quantity Sheet Q-2 is revised and Bid Schedule revised (See Attachment A).

Q5.09 According to Addendum #3 Revised plan sheet R-2, plan page #192, Limit of Structure Excavation and Backfill Detail said, “Over Excavation to an elevation of 235.0 or as directed by on-site Geotechnical Engineer”. This is very unclear note. Please verify the actual elevation so we can calculate the accurate Structural Excavation quantity.

A5.09 Please refer to the Bidders Information Handout and the Geotechnical Design and Materials Report (GDMR) included in that handout. The GDMR includes recommendations for over excavation and backfill for some of the proposed retaining walls due to existing soil conditions.

Q5.10 If we Over Excavate RW #2 down to elevation 235.0 for the whole entire wall, which mean we over-excavate +/-33’ depth from the beginning of the wall (Shoring will be required). That doesn’t make sense. Please clarify.

A5.10 Please refer to the Bidders Information Handout and the Geotechnical Design and Materials Report (GDMR) included in that handout. The GDMR includes recommendations for over excavation and backfill for some of the proposed retaining walls due to existing soil conditions.

Q5.11 We request the City’s to postpone this project at least 2-weeks from the original bid date.

A5.11 Bid Opening cannot be postponed.

Q5.12 Plans L-4 & 5, sheets 12 & 13 of 321, and Q-1, sheet 189 of 321 show two (2) crash cushions at the I-580 EB & WB median approaches to the Double MGS at the Patterson Pass Road OC. I do not find a Bid Item for these Crash Cushions. How are they to be paid?

A5.12 A new bid item “Alternative Crash Cushion TL-3” for 2 EA is added and shall conform to the attached SSP 83-4.07, Alternative Crash Cushion TL-3. Quantity Sheet Q-1 is revised and Bid Schedule revised (See Attachment A).

Q5.13 Would it be possible to re-format the addendum #4 bid schedule? As it stands it would be difficult to fit the written Unit Cost and Extended Total Amount(s) into the columns provided.

A5.13 See Attachment A.

Q5.14 Notes on plan sheet #314 (retaining wall No. 86) indicate that the underground telephone line that runs parallel to RW # 86 will be relocated by others. Please confirm that the relocation by others takes place for the entire length of RW #86. The Special Provisions call out stationing that does not match what is shown on the plans. No cross sections have been provided and we are trying to determine if the excavation for RW # 86 will require shoring to protect the underground telephone line or not.

A5.14 The majority of the length of RW #86 runs parallel to an existing underground AT&T line that is outside Caltrans R/W and will not be relocated. At the southern end of RW #86 closest to Patterson Pass Road, the AT&T line will be relocated beginning around “RW86” LOL Sta. 5+89 to go around the end of RW #86 that finishes at “RW86” LOL Sta. 6+50.43. The AT&T line is one of the utilities that will be relocated during the construction per the Special Provisions.

Q5.15 The response to Q&A A4.15 refers to a Caltrans SSP 72-8 that is not included in the Contract Documents, please provide or provide the material requirements of this aggregate.

A5.15 Caltrans SSP 72-8 is included with this bid addendum (See Attachment B).

Q5.16 The Bid Schedule lists a number of Bid Items as "F" for Final Pay. The Caltrans Standard Specification Section 1-1.07A defines final pay items as follows: "final pay item: Bid item whose quantity shown on the Bid Item List is the quantity paid." This definition is not modified or omitted according to the City's Special Conditions Section 3.3(D)(2), however, the Bid Item List is referred to as the Bid Schedule by the Contract Documents. Please confirm that the quantities listed as "F" for Final Pay on the Bid Schedule will be paid in their entirety under the Contract unless the dimensions are changed by the City. Of specific concern is Pay Item 68 for Structural Concrete Drainage Inlet, where the Final Quantity we will expect to be paid is 150 CY, however the original as well as the updated Drainage Quantity on Plan Sheet DQ-5 tallies up to only 143.2 CY.

A5.16 The quantity for Bid Item “Structural Concrete, Drainage Inlet” has been revised to 160 CY (Final Pay Item). See updated Drainage Quantity Sheet DQ-5.

Q5.17 The Misc. Iron and Steel Quantity listed for each of the drop inlets on Plan Sheets DQ-1 thru DQ-5 are drastically under-reported. As an example, Structure 14a is listed on Plan Sheet DQ-2 as a 10-foot tall G4 DI with a 24-12x Grate Type. Standard Plan D72G indicates that the quantity of rebar in a structure 8'-1" in height is 1675 LB and an additional 171.79 LB for each

additional foot; equating to a structure quantity of approximately 2,000 LB, whereas the table indicates a rebar weight for this structure of 239 LB. Please review and make adjustments accordingly as this is a Final Quantity. The complication with this item being it is a blended quantity for drop inlets, box culverts, overside drains, paved ditches and dikes.

A5.17 Per Caltrans Standard Specification Section 51, Bar reinforcements for Structure Concrete Drainage Inlet are included in the unit price for Structure Concrete Drainage Inlet. Per Caltrans Standard Specification Section 75-2, Miscellaneous Iron and Steel includes frame and grates only. Drainage Quantities Sheets "DQ" are revised and Bid Schedule revised (See Attachment A).

Q5.18 Referencing Addendum 3 Q&A, response to question #24, states Exhibits 12-B, 15-G, 15-H and supporting GFE documentation are due the 5th day after bid opening. Also referencing Addendum 4 Q&A, responses to questions #7 and #54, states Exhibit 15-B is due at bid time which is contrary to Addendum #3 response regarding form 12-B – our request is as follows:

Exhibit 12-B Part 1 is a more detailed version of the subcontractor list, also due at bid opening. Having to manually enter the information requested on the Subcontractor list and duplicate the information with added details on Exhibit 12-B at bid opening on a hard copy, hand delivered bid submittal increases the potential for clerical errors that could result in bid protests and takes time from providing the best possible bid pricing and submittal to the City of Tracy. Further, requiring Exhibit 12-B Part 2 due at bid opening does not allow adequate time to complete the information requested as many subcontractors are submitting pricing up to the time of bid opening. Please re-consider as stated in Addendum #3 to allow Exhibit 12-B Parts 1 & 2 to be due the 5th day after bid opening to allow bidders ample time to complete the forms in their entirety and review for accuracy.

A5.18 The subcontractor list in Page P-11 in the contract should be submitted along with the bids. Exhibits 12-B, 15-G, 15-H, and all good faith documentation can be provided by the 5th business day of the bid opening, if not with the bid package. This is a correction to any previous responses related to Exhibit 12-B in earlier addendums.

Q5.19 In the spirit of time and effort to expedite the completion of Exhibit 12-B Part 1 and Part 2, would the contractor be allowed to mark these forms as 'see attached' and provide the requested information on an alternate form? The alternate form would contain the same information as that requested on Exhibit 12-B Part 1 and Part 2 and be of a similar format.

A5.19 Please see answer A5.18.

Q5.20 Will the city please re-issue the bid form with wider columns for unit price. It is going to be extremely difficult to write in larger unit price numbers in the narrow space provided in the current bid form. Please see attachment.

A5.20 See Attachment A

Q5.21 For the subcontractors list due at bid opening, please clarify if the list consists of subcontractors who will perform a portion of the work in an amount in excess of one-half of 1% of the Bidders total Contract Price or $10,000, whichever is greater (CA PCC 4104) OR all subcontractors of $10,000 or more as indicated in footnote 1.

A5.21 All subcontractors who will perform a portion of the work in an amount in excess of one-half or 1% of the Bidders total Contract Price or $10,000, whichever is greater.

Q5.22 Exhibit 15-G requires written confirmation of each listed DBE. Please define what qualifies as written confirmation.

A5.22 A copy of the DBE's quote serves as a written confirmation.

Q5.23 Addendum 4, Plan Sheet Q-2 revised the "Earthwork" quantity table to add two location/descriptions items as WB and EB "I-580" Line Slope Key. The combined added Roadway Excavation quantity under these two new descriptions is 3,926 CY. No other use of this term "Line Slope Key" has been found in the Contract, 2022 Caltrans Specifications or Standard Drawings. Please indicate the intent of this work and identify where this work will occur for pricing the scope accordingly.

A5.23 Please refer to the Bidders Information Handout and the Geotechnical Design and Materials Report (GDMR) included in that handout. The GDMR includes recommendations for a toe keyway for fill slopes under certain circumstances. Updated Grading Plans "G" Sheets are included with this bid addendum to show the slope key locations we have estimated to include in the roadway excavation. Quantity Sheet Q-2 is revised and Bid Schedule revised (See Attachment A).

Q5.24 Where can we find the plan holders list.

A5.24 Plan holders list can be obtained by going to the Quest link provided in the Notice Inviting Bidders, and clicking the link to the interchange project.

https://qcpi.questcdn.com/cdn/posting/?group=4201841&provider=4201841&projType=all

All other items remain unchanged.

DocuSigned by:
Koosun Kim
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Koosun Kim
City Engineer

END OF ADDENDUM NO. 5

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ATTACHMENT A- UPDATED BID SCHEDULE

Bid Schedule (Revision 5, per Addendum # 5)

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	572	$	$
9		PORTABLE RADAR SPEED FEEDBACK SIGN SYSTEM DAY	EA	300	$	$
10		TEMPORARY PAVEMENT MARKER	EA	1,210	$	$
11		TEMPORARY BARRIER SYSTEM	LF	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	182	$	$

BID ITEM NO.	S/F	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT COST	EXTENDED TOTAL AMOUNT
15		ALTERNATIVE TEMPORARY CRASH CUSHION TL-3	EA	5	$	$
16		TEMPORARY RADAR SPEED FEEDBACK SIGN SYSTEM	EA	4	$	$
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	8,400	$	$
34		INVASIVE SPECIES CONTROL	LS	1	$	$

BID ITEM NO.	S/F	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT COST	EXTENDED TOTAL AMOUNT
35		DUST CONTROL PLAN	LS	1	$	$
36		REMOVE CONCRETE (CY)	CY	40	$	$
37		TEMPORARY HIGH-VISIBILITY FENCE	LF	330	$	$
38		CLEARING AND GRUBBING (LS)	LS	1	$	$
39		ROADWAY EXCAVATION	CY	41,000	$	$
40	F	STRUCTURE EXCAVATION (RETAINING WALL)	CY	12,307	$	$
41	F	STRUCTURE BACKFILL (RETAINING WALL)	CY	13,599	$	$
42		IMPORTED BORROW (CY)	CY	115,000	$	$
43		8" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	LF	170	$	$
44		BONDED FIBER MATRIX (SQFT)	SQFT	830,000	$	$
45		FIBER ROLLS	LF	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	15,200	$	$
50		LEAN CONCRETE BASE	CY	4,900	$	$
51		BASE BOND BREAKER	SQYD	44,000	$	$
52		HOT MIX ASPHALT (TYPE A)	TON	14,200	$	$
53		RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	3,600	$	$
54		TACK COAT	TON	30	$	$
55		PLACE HOT MIX ASPHALT DIKE (TYPE A)	LF	2,910	$	$

BID ITEM NO.	S/F	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT COST	EXTENDED TOTAL AMOUNT
56		PLACE HOT MIX ASPHALT DIKE (TYPE E)	LF	1,170	$	$
57		PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)	SQYD	116	$	$
58		COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	44,300	$	$
59		JOINTED PLAIN CONCRETE PAVEMENT	CY	16,800	$	$
60		SEAL PAVEMENT JOINT	LF	47,200	$	$
61		SEAL ISOLATION JOINT	LF	9,190	$	$
62		54" CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	LF	14	$	$
63		60" CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	LF	51	$	$
64	F	STRUCTURAL CONCRETE, RETAINING WALL	CY	2,299	$	$
65	F	STRUCTURAL CONCRETE, BOX CULVERT	CY	204	$	$
66	F	STRUCTURAL CONCRETE, MODIFIED BOX CULVERT	CY	18	$	$
67	F	STRUCTURAL CONCRETE, HEADWALL	CY	140	$	$
68	F	STRUCTURAL CONCRETE, DRAINAGE INLET	CY	160	$	$
69	F	BAR REINFORCING STEEL (RETAINING WALL)	LB	309,724	$	$
70	F	FURNISH SIGN STRUCTURE (TRUSS)	LB	59,920	$	$
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	$	$

BID ITEM NO.	S/F	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT COST	EXTENDED TOTAL AMOUNT
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	$	$
79		FLUME ANCHOR ASSEMBLY	EA	2	$	$
80		DRAINAGE INLET MARKER	EA	24	$	$
81		18" CORRUGATED STEEL PIPE RISER (.064" THICK)	LF	10	$	$
82		18" CONCRETE FLARED END SECTION	EA	6	$	$
83		24" CONCRETE FLARED END SECTION	EA	9	$	$
84		REMOVE OVERSIDE DRAIN	EA	16	$	$
85		REMOVE CULVERT (LF)	LF	80	$	$
86		REMOVE DOWNDRAIN (EA)	EA	6	$	$
87		REMOVE INLET	EA	3	$	$
88		REMOVE HEADWALL	EA	4	$	$
89		REMOVE CONCRETE FLARED END SECTION (EA)	EA	2	$	$
90		RELOCATE DWR SIPHON PIPE	LS	1	$	$
91		ROCK SLOPE PROTECTION (20 lb, Class I, METHOD B) (CY)	CY	50	$	$
92		GRAVEL FILTER	CY	40	$	$
93		MINOR CONCRETE (GUTTER) (LF)	LF	550	$	$
94		DETECTABLE WARNING SURFACE	SQFT	540	$	$
95		MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	CY	1,100	$	$
96	F	MISCELLANEOUS IRON AND STEEL	LB	26,702	$	$

BID ITEM NO.	S/F	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT COST	EXTENDED TOTAL AMOUNT
97		RELOCATE MAILBOX	EA	1	$	$
98		FENCE (TYPE BW, METAL POST)	LF	8,100	$	$
99		DWR WOVEN FENCE	LF	220	$	$
100		12' WIRE MESH GATE	EA	2	$	$
101		REMOVE FENCE (TYPE BW)	LF	9,400	$	$
102		REMOVE FENCE (STEEL TUBULAR)	LF	120	$	$
103		RELOCATE DWR SWING GATE	EA	1	$	$
104		DELINEATOR (CLASS 1)	EA	130	$	$
105		PAVEMENT MARKER (RETROREFLECTIVE)	EA	1,580	$	$
106		TREATMENT BEST MANAGEMENT PRACTICE MARKER	EA	10	$	$
107		REMOVE ROADSIDE SIGN	EA	18	$	$
108		RELOCATE ROADSIDE SIGN	EA	25	$	$
109		RELOCATE SIGN	EA	1	$	$
110		RELOCATE ROADSIDE SIGN (STRAP AND SADDLE BRACKET METHOD)	EA	1	$	$
111		FURNISH LAMINATED PANEL SIGN (1"-TYPE A)	SQFT	1,070	$	$
112		FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	SQFT	1,170	$	$
113		METAL (BARRIER MOUNTED SIGN)	LB	420	$	$
114		ROADSIDE SIGN - ONE POST	EA	142	$	$
115		ROADSIDE SIGN - TWO POST	EA	2	$	$
116		INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	EA	2	$	$

BID ITEM NO.	S/F	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT COST	EXTENDED TOTAL AMOUNT
117		MIDWEST GUARDRAIL SYSTEM (STEEL POST)	LF	1,680	$	$
118		VEGETATION CONTROL (MINOR CONCRETE)	SQYD	1,560	$	$
119		DOUBLE MIDWEST GUARDRAIL SYSTEM (STEEL POST)	LF	200	$	$
120	F	CABLE RAILING	LF	551	$	$
121	F	CONNECT GUARD RAILING TO STRUCTURE	EA	10	$	$
122		TRANSITION RAILING (TYPE WB-31)	EA	10	$	$
123		RAIL TENSIONING ASSEMBLY	EA	2	$	$
124		END ANCHOR ASSEMBLY (TYPE SFT-M)	EA	5	$	$
125		ALTERNATIVE IN-LINE TERMINAL SYSTEM	EA	11	$	$
126		ALTERNATIVE CRASH CUSHION TL-3	EA	2	$	$
127		CONCRETE BARRIER (TYPE 60SD)	LF	270	$	$
128		CONCRETE BARRIER (TYPE 60M)	LF	60	$	$
129		CONCRETE BARRIER (TYPE 60MS)	LF	470	$	$
130		CONCRETE BARRIER (TYPE 60MD)	LF	440	$	$
131		CONCRETE BARRIER (TYPE 842A)	LF	1,710	$	$
132		REMOVE GUARDRAIL	LF	680	$	$
133		THERMOPLASTIC PAVEMENT MARKING (ENHANCED WET NIGHT VISIBILITY)	SQFT	5,220	$	$
134		6" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) (BROKEN 6-1)	LF	1,930	$	$
135		6" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) (BROKEN 17-7)	LF	100	$	$

BID ITEM NO.	S/F	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT COST	EXTENDED TOTAL AMOUNT
136		6" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) (BROKEN 36-12)	LF	14,600	$	$
137		6" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)	LF	39,900	$	$
138		8" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)	LF	11,700	$	$
139		8" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) (BROKEN 12-3)	LF	2,970	$	$
140		12" RUMBLE STRIP (ASPHALT CONCRETE PAVEMENT)	STA	100	$	$
141	F	PIPE PIN	LB	737	$	$
142	F	STRUCTURE EXCAVATION (BRIDGE)	CY	2,184	$	$
143	F	STRUCTURE BACKFILL (BRIDGE)	CY	1,329	$	$
144	F	STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	824	$	$
145	F	STRUCTURAL CONCRETE, BRIDGE	CY	455	$	$
146	F	STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)	CY	721	$	$
147		AGGREGATE BASE (APPROACH SLAB)	CY	3	$	$
148	F	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE EQ)	CY	68	$	$
149		STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	CY	29	$	$
150		DRILL AND BOND DOWEL	LF	919	$	$
151		FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (30'-40')	EA	15	$	$
152		FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (40'-50')	EA	17	$	$

BID ITEM NO.	S/F	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT COST	EXTENDED TOTAL AMOUNT
153		FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (80'-90')	EA	30	$	$
154	F	ERECT PRECAST CONCRETE GIRDER	EA	62	$	$
155		JOINT SEAL (MR 1 1/2")	LF	179	$	$
156	F	BAR REINFORCING STEEL (BRIDGE)	LB	615,231	$	$
157	F	HEADED BAR REINFORCEMENT	EA	728	$	$
158		REMOVE CONCRETE DECK SURFACE	SQFT	4,146	$	$
159		PREPARE CONCRETE BRIDGE DECK SURFACE	SQFT	7,295	$	$
160		FURNISH POLYESTER CONRETE OVERLAY	CF	512	$	$
161	F	PLACE POLYESTER CONCRETE OVERLAY	SQFT	5,142	$	$
162		BRIDGE REMOVAL (PORTION)	LS	1	$	$
163		FURNISH DECK OVERLAY (CONCRETE)	CY	34	$	$
164	F	PLACE DECK OVERLAY (CONCRETE)	SQYD	237	$	$
165	F	MISCELLANEOUS METAL (BRIDGE)	LB	1,036	$	$
166		CONCRETE BARRIER (TYPE 60MA)	LF	519	$	$
167	F	CONCRETE BARRIER (TYPE 836)	LF	347	$	$
168	F	CONCRETE BARRIER (TYPE 836 MODIFIED)	LF	195	$	$
169		SALVAGE METAL BRIDGE RAILING	LF	532	$	$
170		LIGHTING (CITY STREET)	LS	1	$	$
171		MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION	LS	1	$	$

BID ITEM NO.	S/F	ITEM DESCRIPTION	UNIT	EST. QTY.	UNIT COST	EXTENDED TOTAL AMOUNT
172		LOCATING AND MAPPING UNDERGROUND FACILITIES	LS	1	$	$
173		LIGHTING SYSTEM	LS	1	$	$
174		SIGNAL AND LIGHTING SYSTEM	LS	1	$	$
175		RAMP METERING SYSTEM	LS	1	$	$
176		FIBER OPTIC CABLE SYSTEM	LS	1	$	$
177		TEMPORARY SIGNAL SYSTEMS	LS	1	$	$
178		MODIFYING TRAFFIC MONITORING STATIONS	LS	1	$	$
179		REMOVING SIGNAL AND LIGHTINGS SYSTEMS	LS	1	$	$
180		MOBILIZATION	LS	1	$	$

TOTAL BASE BID: Items 1 through 180 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- SSP PAGES

Replace section 72-8 with:

72-8 GRAVEL FILTER

72-8.01 General

Section 72-8 includes specifications for constructing gravel filter.

72-8.02 Materials

Gravel for gravel filter must consist of hard, durable, clean, washed gravel, cobble, crushed stone, crushed rock, or any combination of these. Gravel must be free from organic material, clay balls, and other deleterious substances.

Gravel must have a durability index not less than 40 and must contain at least 90 percent crushed particles when tested under California Test 205.

The percentage composition by weight of gravel filter in place must comply with the gradation requirements shown in the following table:

Gradation Requirements

Sieve size	Percentage passing
6 inch	95–100
4 inch	65–95
3 inch	30–65
2 inch	20–35
1 1/2 inch	10–25
1 inch	0–10

72-8.03 Construction

Deliver uniform mixture of gravel filter to the site. Place gravel filter on streambed subgrade. Spread uniform mixture in layers and shape to thickness and limits shown using suitable equipment.

Local surface irregularities of the gravel filter aggregate must not vary from the planned slope by more than 2 inches as measured at right angles to the slope.

72-8.04 Payment

Not Used

Replace section 83-4.07 with:

83-4.07 ALTERNATIVE CRASH CUSHION—TL-3

83-4.07A General

83-4.07A(1) Summary

Section 83-4.07 includes specifications for constructing alternative crash cushion—TL-3, including foundations, transitions, and hardware required to connect to a structure or barrier as described.

83-4.07A(2) Definitions

Not Used

83-4.07A(3) Submittals

At least 10 days before installation, submit the following from the manufacturer for each model of the crash cushion used:

1. A certificate of compliance
2. A minimum of 2 copies of drawings
3. Installation instruction manual
4. Maintenance manual

For each crash cushion, submit a completed manufacturer's installation checklist within 10 days after installation. The checklist must be completed by personnel that have been trained by the manufacturer. The checklist must include the following:

1. Contract number
2. Name of installation contractor
3. Type of crash cushion installed
4. Date of installation
5. Location by post mile and by station if stationing is shown
6. Name and signature of person completing the checklist

83-4.07A(4) Quality Assurance

Personnel trained by the manufacturer must be on site during installation. Provide list of trained personnel to the Engineer.

83-4.07B Materials

Concrete for foundations must comply with the specifications for minor concrete and the manufacturer’s strength requirements. Reinforcement must comply with section 52.

Alternative crash cushion must be one of the following or a Department-authorized equal:

1. QuadGuard Elite M10, 8-bay is a potentially reusable, re-directive, non-gating crash cushion manufactured by Trinity Highway Products, LLC/Valtir, LLC. It must include Tension Strut Backup with the use of an approved transition. The crash cushion length is 27’-1”. The QuadGuard Elite M10, 8-bay crash cushion can be obtained from the following manufacturer or distributor:

Address	Telephone and fax nos.
TRINITY HIGHWAY-PRODUCTS, LLC/VALTIR, LLC 15601 DALLAS PARKWAY, SUITE 525 ADDISON TX 75001	Telephone: (888) 323-6374
TRAFFIC MANAGEMENT INCOPORATED 4900 AIRPORT PLAZA DR, STE 300 LONG BEACH CA 90815 e-mail: trinity@trafficmanagement.com	Telephone: (510) 289-6975 Telephone: (760) 421-4112

2. QuadGuard M10, 6-bay is a potentially reusable, re-directive, non-gating crash cushion manufactured by Trinity Highway Products, LLC/Valtir, LLC. It must include Tension Strut Backup with the use of an approved transition. The crash cushion length is 21'-11". The QuadGuard M10, 6-bay crash cushion can be obtained from the following manufacturer or distributor:

Address	Telephone and fax nos.
TRINITY HIGHWAY-PRODUCTS, LLC/VALTIR, LLC 15601 DALLAS PARKWAY, SUITE 525 ADDISON TX 75001	Telephone: (888) 323-6374
TRAFFIC MANAGEMENT INCOPORATED 4900 AIRPORT PLAZA DR, STE 300 LONG BEACH CA 90815 e-mail: trinity@trafficmanagement.com	Telephone: (510) 289-6975 Telephone: (760) 421-4112

3. SCI-100GM is a potentially reusable, re-directive, non-gating, bidirectional crash cushion manufactured by Hill & Smith, Inc. The crash cushion length is 21'-6" and must be used with an approved transition. The SCI-100GM can be obtained from the following distributors:

Address	Telephone and fax nos.
WORK AREA PROTECTION CORPORATION 2500 PRODUCTION DRIVE ST. CHARLES IL 60174-9081	Telephone: (800) 327-4417 Fax: (614) 340-6296
D&M TRAFFIC SERVICES INCORPORATED 845 REED STREET SANTA CLARA CA 95050	Telephone: (408) 436-1127 Fax: (408) 436-1675

4. TAU-M, 7-bay is a potentially reusable, re-directive, non-gating crash cushion manufactured by Barrier Systems, Inc. The crash cushion length is 23'-11" and shields up to 27.5 inches in width with use of an approved transition. The TAU-M crash cushion can be obtained from the distributor:

Address	Telephone and fax nos.
STATEWIDE SAFETY AND SIGNS INCORPORATED 130 GROBRIC COURT FAIRFIELD CA 94533	Telephone: (800) 770-2644 Fax: (707) 864-9956

83-4.07C Construction

Install crash cushion under the manufacturer's installation instructions. A copy of the Caltrans-approved manufacturer's drawings and installation manual must be onsite for each model of crash cushion installed.

Attach a manufacturer-supplied retroreflective marker panel to the front of the crash cushion if the closest point of the crash cushion is within 12 feet of the traveled way. Install left, right, or median marker as appropriate. Attach the marker panel to the crash cushion as recommended by the manufacturer or other methods if authorized.

Before installing crash cushion on the foundation:

1. Concrete foundations must attain compressive strength
2. Clean the foundation surface of debris, dirt, and loose material

Install QuadGuard Elite M10, 8-bay with Tension Strut Backup on a 6-inch reinforced concrete pad or on an 8-inch unreinforced concrete pad. The foundation cross-slope shall not exceed 8 percent and must not twist more than 2 percent over the length of the crash cushion. Install a transition panel or side panel on each side of the backup. Use concrete anchorage devices provided by the manufacturer.

Install QuadGuard M10, 6-bay with Tension Strut Backup on a 6-inch reinforced concrete pad or on an 8-inch unreinforced concrete pad. The foundation cross-slope shall not exceed 8 percent and must not twist more than 2 percent over the length of the crash cushion. Install a transition panel or side panel on each side of the backup. Use concrete anchorage devices provided by the manufacturer.

Install SCI-100GM crash cushion on a 6-inch reinforced concrete pad or on an 8-inch unreinforced concrete pad. The crash cushion is a self-contained backup and the foundation has a cross slopes of 10:1 or less.

Install TAU-M, 7-bay crash cushion on a 6-inch reinforced concrete pad, 8-inch unreinforced concrete pad, or 6 inches of asphalt concrete over 6 inches of compacted subbase. For bi-directional traffic, connect the crash cushion to the barrier using the manufacturer's recommended transition. For unidirectional traffic, a transition is not required. Use concrete anchorage devices provided by the manufacturer.

Identify each crash cushion installed by painting the crash cushion type, installation date, and project identification number in 2-inch-high, neat letters and figures in a contrasting color on the crash cushion near the impact head. Before applying paint, clean the surface of dirt, grease, oil, salt, or other contaminants and allow to dry.

83-4.07D Payment

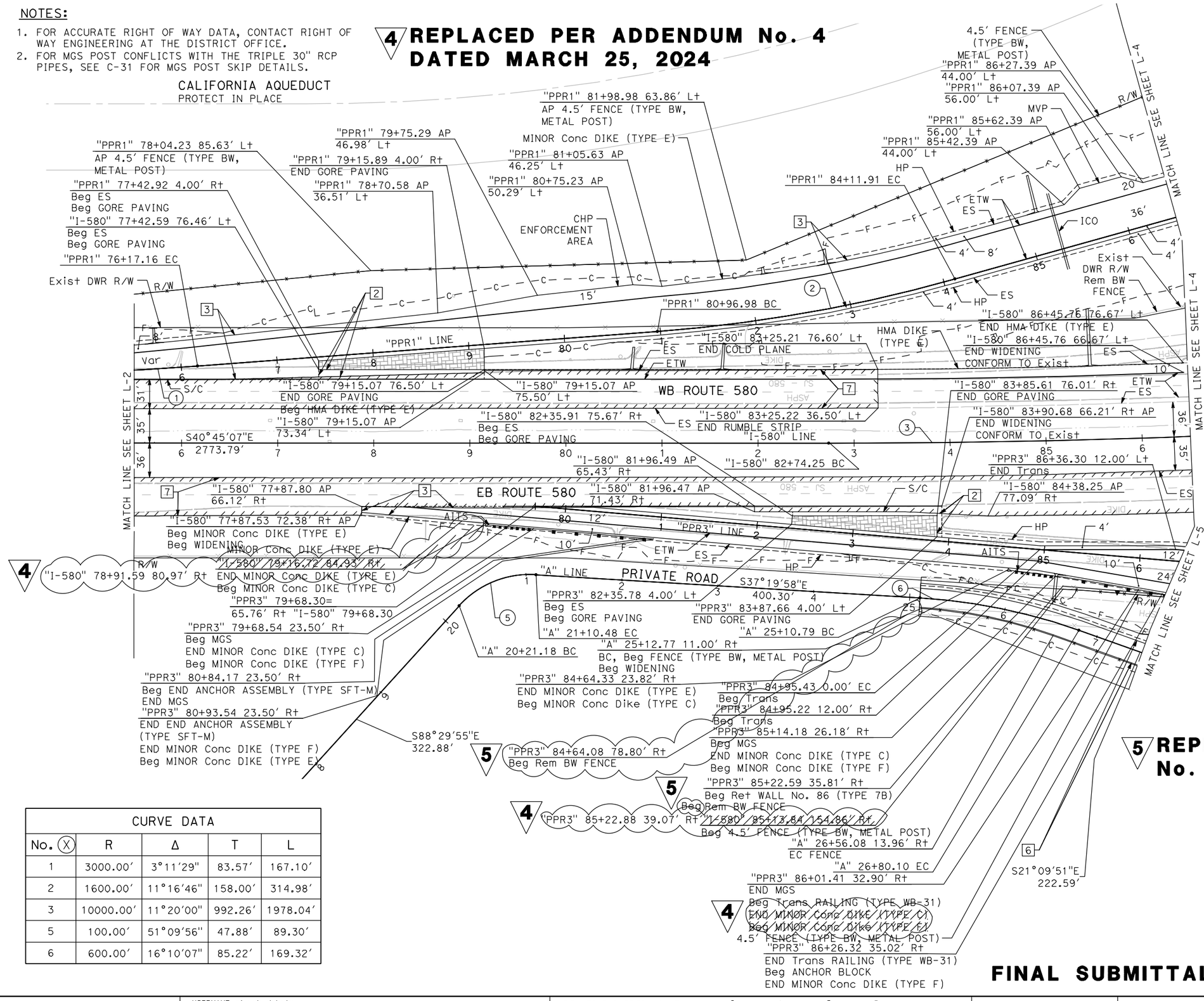
Not Used

ATTACHMENT C- UPDATED PLAN SHEETS

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. 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



CURVE DATA				
No. (X)	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'

5 REPLACED PER ADDENDUM No. 5 DATED APRIL 1, 2024

LAYOUT
SCALE: 1" = 50'

FINAL SUBMITTAL

L-3

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

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

LAST REVISION 00-00-00 | DATE PLOTTED => 30-Mar-24 | TIME PLOTTED => 12:13

BORDER LAST REVISED 7/2/2010 | USERNAME => gchudabala | DGN FILE => I-580_L-3.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 1015000011

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	13	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

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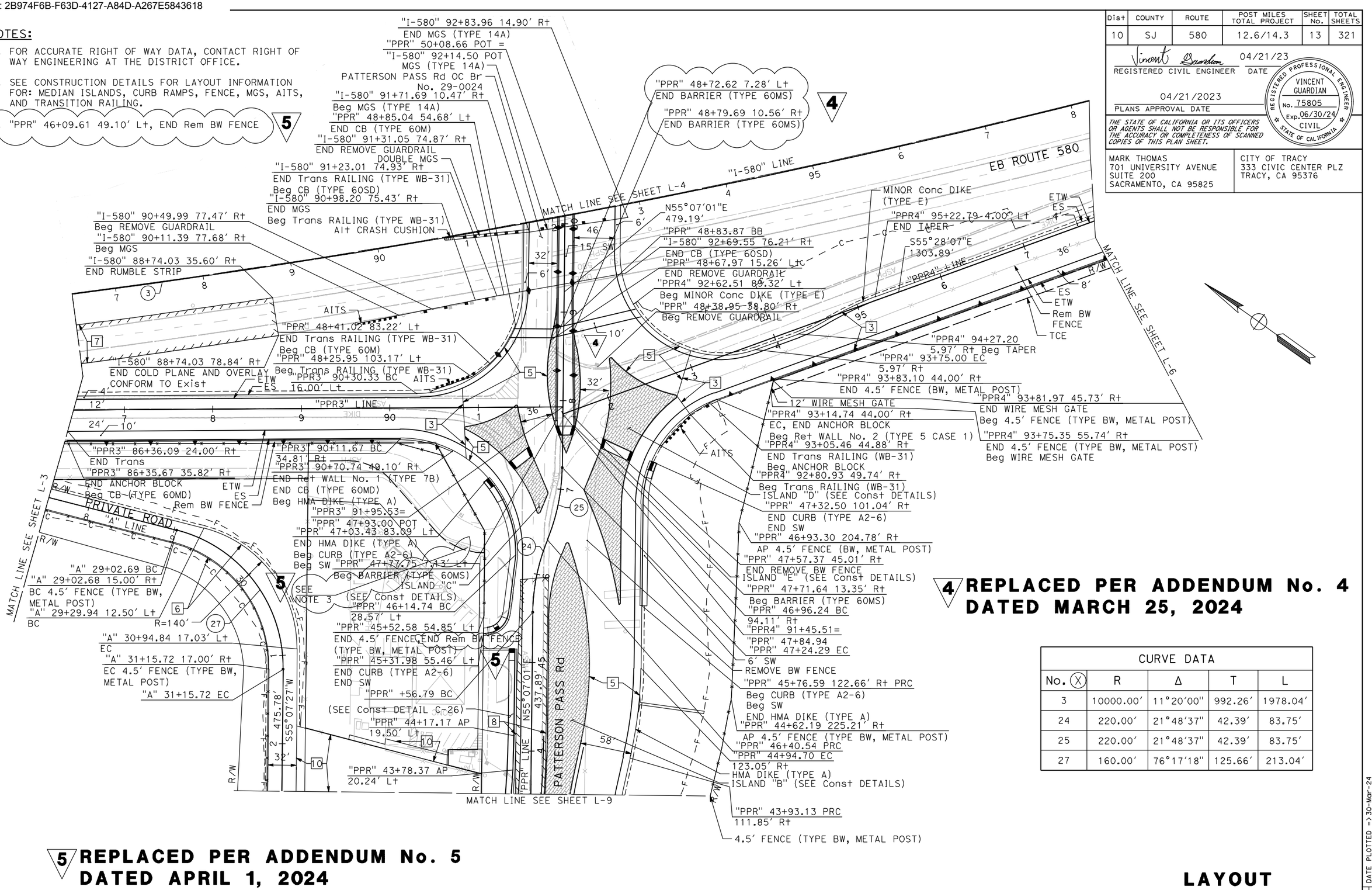
MARK THOMAS
701 UNIVERSITY AVENUE
SUITE 200
SACRAMENTO, CA 95825

CITY OF TRACY
333 CIVIC CENTER PLZ
TRACY, CA 95376

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. SEE CONSTRUCTION DETAILS FOR LAYOUT INFORMATION FOR: MEDIAN ISLANDS, CURB RAMPS, FENCE, MGS, AITS, AND TRANSITION RAILING.
3. "PPR" 46+09.61 49.10' Lt, END Rem BW FENCE (5)



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

CURVE DATA				
No. (X)	R	Δ	T	L
3	10000.00'	11°20'00"	992.26'	1978.04'
24	220.00'	21°48'37"	42.39'	83.75'
25	220.00'	21°48'37"	42.39'	83.75'
27	160.00'	76°17'18"	125.66'	213.04'

5 **REPLACED PER ADDENDUM No. 5 DATED APRIL 1, 2024**

LAYOUT
SCALE: 1" = 50'

FINAL SUBMITTAL

L-5

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

LAST REVISION 00-00-00 | DATE PLOTTED => 30-Mar-24 | TIME PLOTTED => 12:13

BORDER LAST REVISED 7/2/2010 | USERNAME => gchudabala | DGN FILE => I-580_L-5.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 1015000011

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	53	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

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MARK THOMAS
701 UNIVERSITY AVENUE
SUITE 200
SACRAMENTO, CA 95825

CITY OF TRACY
333 CIVIC CENTER PLZ
TRACY, CA 95376

LEGEND:
REMOVE Exist Conc

"A" 31+15.72 17.00' Rt
EC 4.5' FENCE
(TYPE BW, METAL POST)

475.78' "A" LINE
S55°07'27"W

PRIVATE ROAD

"A" 29+85.36 109.72' Lt
END REMOVE FENCE

REMOVE FENCE

INSTALL GATE
RELOCATE SIGN HERE
RELOCATE MAIL BOX HERE

"A" 31+81.75 26.03' Lt
Beg REMOVE FENCE

MATCH LINE SEE SHEET 54 - C-28

DOWELL PROPOSED PCC PAVEMENT INTO EXISTING PAVEMENT

EOP

PAVEMENT TO BE PLACED WEST OF GUY WIRE

PROTECT IN PLACE Rem 9" PCC TANK

"PPR" 45+14.99 26.00' Lt
END Ret CURB
END CURB RAMP No. 5
SEE SHEET C-25

"PPR" 45+14.99 23.00' Lt
℄ CURB RAMP No. 5

REMOVE MGS

"PPR" 45+01.99 20.00' Lt
END CURB RAMP
END SW
END CURB (TYPE A2-6)

6.50' SW

"PPR" LINE N55°07'01"E 437.89'

PATTERSON PASS Rd

"PPR" 45+14.99 20.00' Lt
Beg CURB RAMP No. 5

5 "PPR3" 90+91.22 129.37' Rt
END Rem FENCE (STEEL TUBULAR)

PROTECT IN PLACE RESTROOM BUILDING

5 PROTECT IN PLACE Exist FENCE AND GATE (STEEL TUBULAR)

"PPR3" 91+06.20 139.10' Rt
AP 4.5' FENCE (TYPE BW, METAL POST)

"PPR" 45+31.98 55.46' Lt
END CURB (TYPE A2-6)
EC
END SW

"PPR" 45+32.42 50.33' Lt
END CURB RAMP No. 6

"PPR" 45+36.23 38.87' Lt
℄ CURB RAMP No. 6
SEE SHEET C-25

R=25'

"PPR" 45+52.58 54.85' Lt
END 4.5' FENCE (TYPE BW, METAL POST)

"PPR" 46+15.15 EC
28.18' Lt

"PPR" 45+55.37 BC
27.05' Lt

"PPR" 46+72.81 62.36' Lt
END CURB RAMP No. 3

"PPR" 45+49.03 28.50' Lt
Beg CURB RAMP No. 6

"PPR3" 90+07.95 39.44' Rt
AP 4.5' FENCE (TYPE BW, METAL POST)

5 "PPR3" 90+45.88 38.58' Rt
Beg Rem FENCE (STEEL TUBULAR)

"PPR3" 90+59.05 53.62' Rt
AP 4.5' FENCE (TYPE BW, METAL POST)

"PPR" 47+04.04 82.74' Lt
Beg CURB RAMP No. 3
SEE SHEET C-24

RELOCATE SIGN
SEE "A" 31+80

RELOCATE MAIL BOX SEE "A" 31+80

"PPR" 46+97.49 79.06' Lt
CURB RAMP No. 3

9"PPR3" LINE

EB ROUTE 580

DIKE

ASPH

5 REPLACED PER ADDENDUM No. 5 DATED APRIL 1, 2024

FINAL SUBMITTAL

CONSTRUCTION DETAILS
GAS STATION DETAIL

SCALE: 1" = 20'

C-27

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

LAST REVISION 00-00-00 | DATE PLOTTED => 30-Mar-24 | TIME PLOTTED => 18:27

BORDER LAST REVISED 7/2/2010 | USERNAME => gchudabala | DGN FILE => I-580_C-27.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 1015000011

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. 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 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 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.
3. 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).
4. 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.
5. 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 PERMITTEE 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 PERMITTEE SHALL BE LIABLE FOR ALL COSTS ASSOCIATED WITH RESTORING THESE FEATURES TO PRE-CONSTRUCTION CONDITIONS.
6. THE DEPARTMENT'S ONGOING OPERATIONS AND MAINTENANCE ACTIVITIES SHALL NOT BE DISRUPTED DURING CONSTRUCTION. PERMITTEE SHALL MAINTAIN DEPARTMENT ACCESS THROUGH THE WORKSITE AT ALL TIMES.
7. STORAGE AND PLACEMENT OF CONSTRUCTION EQUIPMENT AND MATERIALS OVER DWR'S PIPELINE OR WITHIN DWR'S RIGHT OF WAY IS NOT ALLOWED.
8. 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:

——— MINOR CONTOURS
——xx—— MAJOR CONTOURS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	64	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

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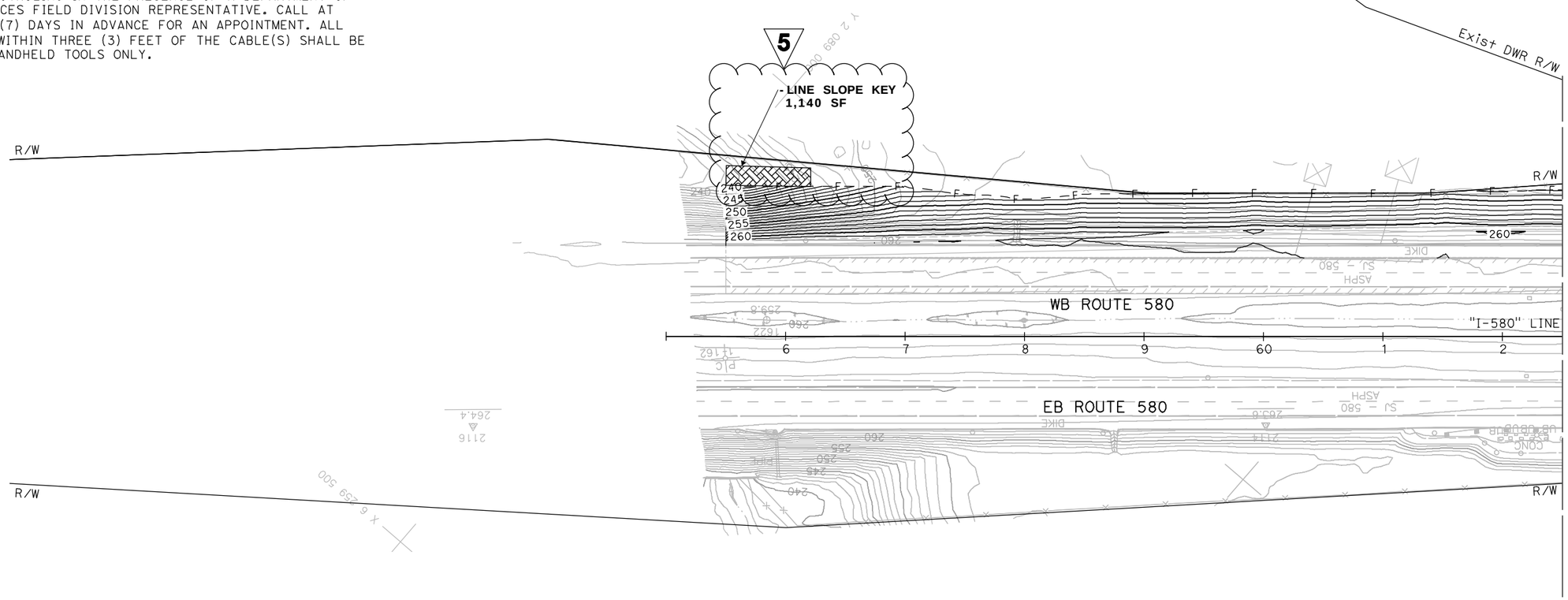
MARK THOMAS
701 UNIVERSITY AVENUE
SUITE 200
SACRAMENTO, CA 95825

CITY OF TRACY
333 CIVIC CENTER PLZ
TRACY, CA 95376



REVISED BY	DATE REVISED
Z. DEWILDE	V. GUARDIAN

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: STEVEN B. BURICK

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

5 **REPLACED PER ADDENDUM No. 5 DATED APRIL 1, 2024**

APPROVED FOR CONTOUR GRADING WORK ONLY

CONTOUR GRADING

SCALE: 1" = 50'

FINAL SUBMITTAL

G-1

LAST REVISION 00-00-00
DATE PLOTTED => 6-Mar-24
TIME PLOTTED => 17:11

BORDER LAST REVISED 7/2/2010 | USERNAME => jmartinez | DGN FILE => I-580_G-1.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 1015000011

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	65	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

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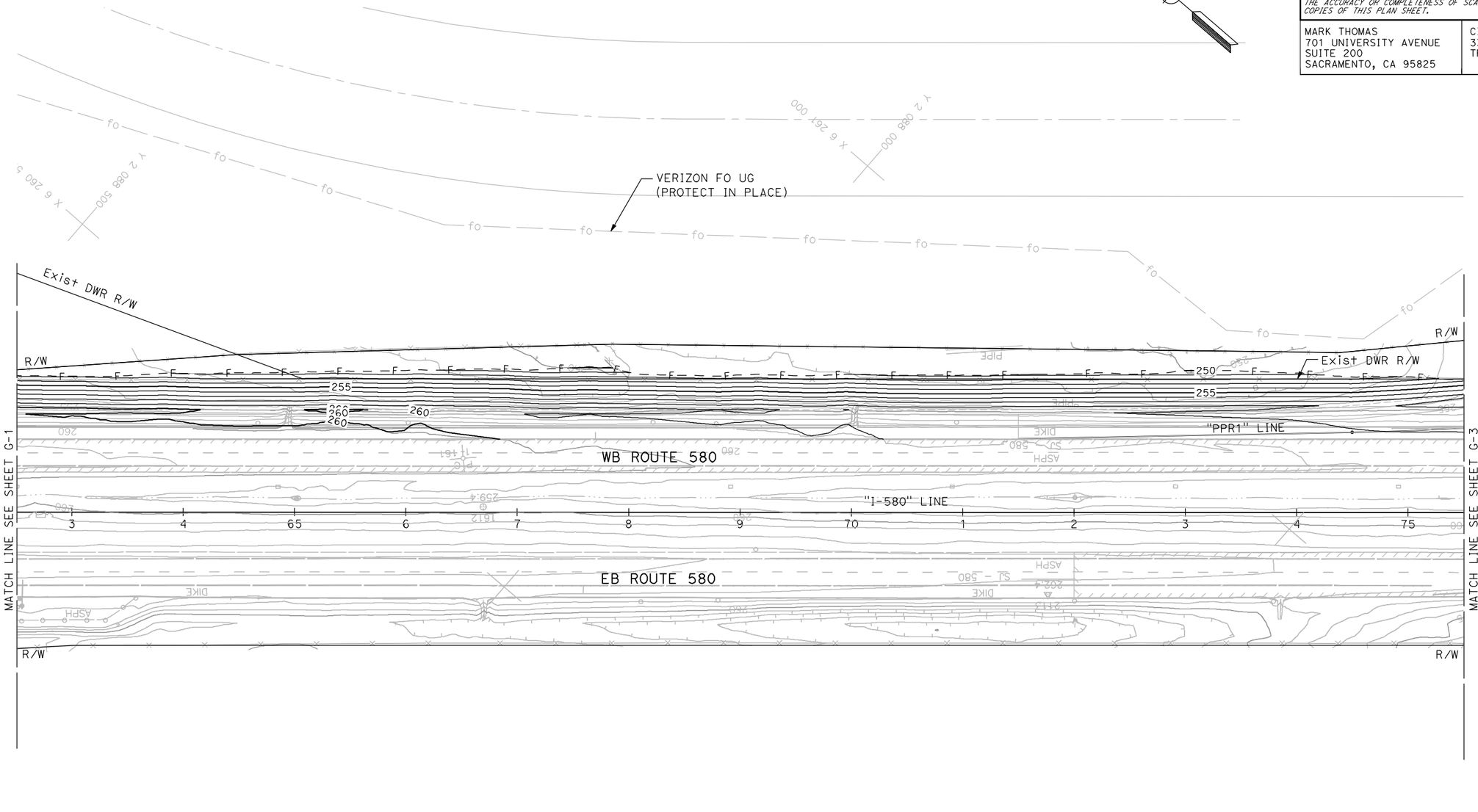
701 UNIVERSITY AVENUE
SUITE 200
SACRAMENTO, CA 95825

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.



5 **REPLACED PER ADDENDUM No. 5 DATED APRIL 1, 2024**

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CONTOUR GRADING

SCALE: 1" = 50'

FINAL SUBMITTAL

G-2

LAST REVISION 00-00-00 | DATE PLOTTED => 6-Mar-24 | TIME PLOTTED => 17:17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: STEVEN B. BURICK

CALCULATED-DESIGNED BY: Z. DEWILDE | CHECKED BY: V. GUARDIAN

REVISED BY | DATE REVISED

BORDER LAST REVISED 7/2/2010 | USERNAME => jmartinez | DGN FILE => I-580_G-2.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 1015000011

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	66	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

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SACRAMENTO, CA 95825

CITY OF TRACY
333 CIVIC CENTER PLZ
TRACY, CA 95376

NOTES:

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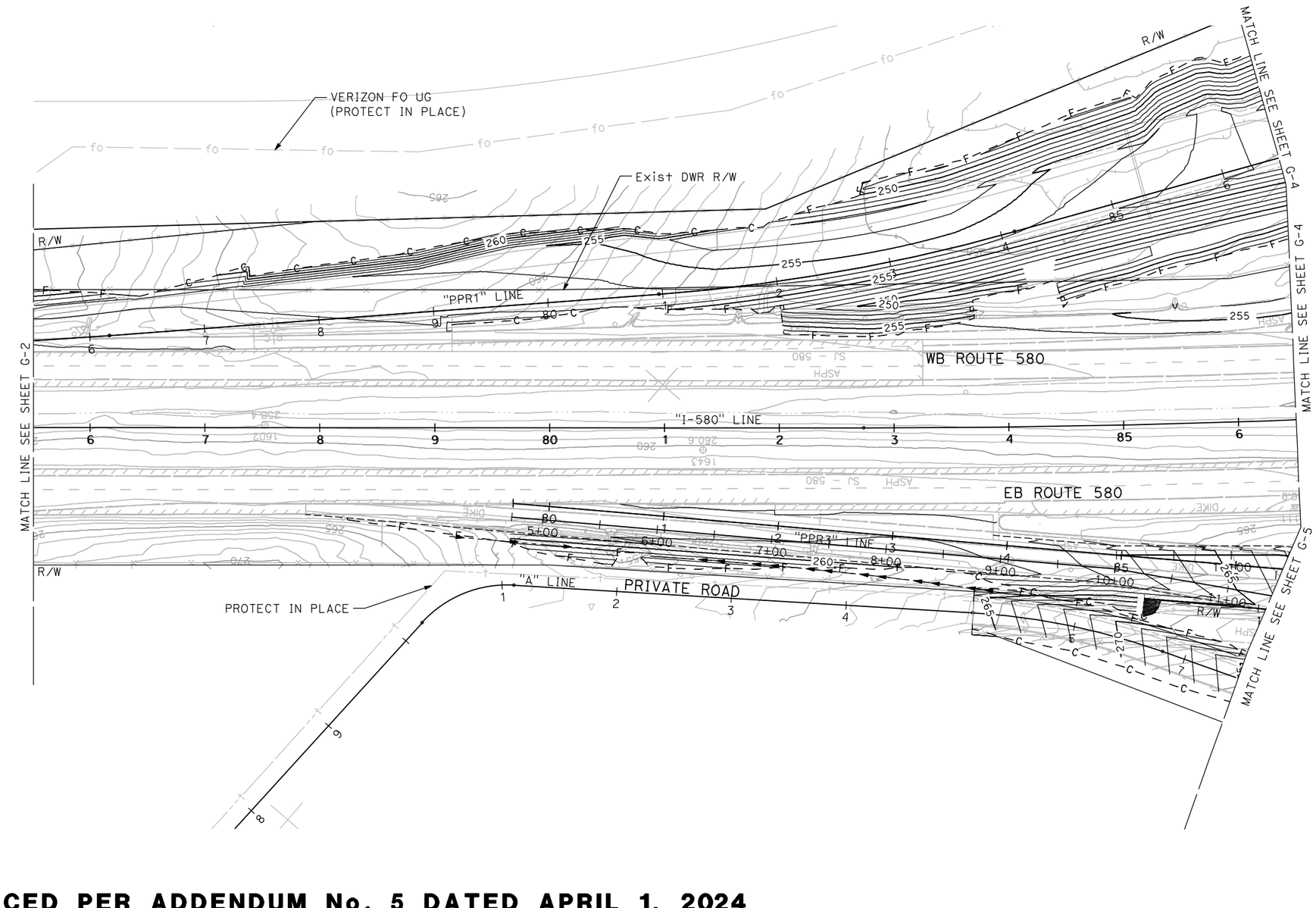

REVISED BY	DATE REVISED
Z. DEWILDE	V. GUARDIAN

CALCULATED-DESIGNED BY
CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR
STEVEN B. BURICK

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CONTOUR GRADING

SCALE: 1" = 50'

G-3

LAST REVISION 00-00-00
DATE PLOTTED => 6-Mar-24
TIME PLOTTED => 13:25

BORDER LAST REVISED 7/2/2010
USERNAME => jmartinez
DGN FILE => I-580_G-3.dwg
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0000
PROJECT NUMBER & PHASE 1015000011

NOTES:

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	67	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

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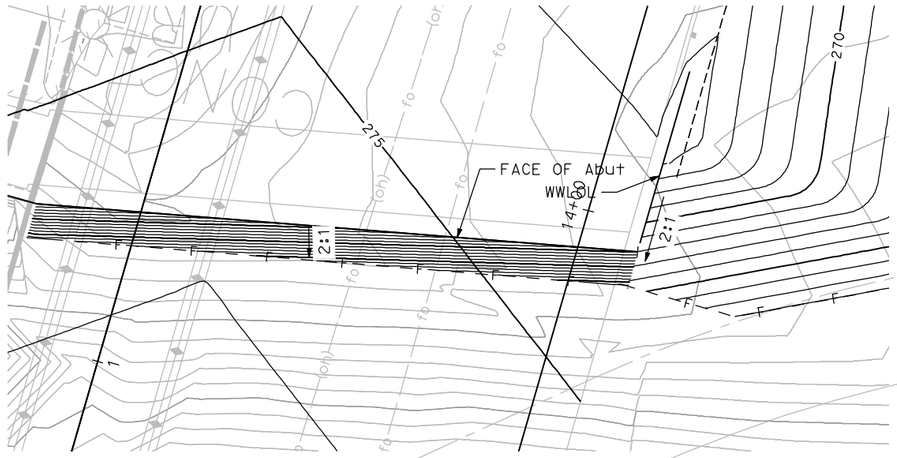
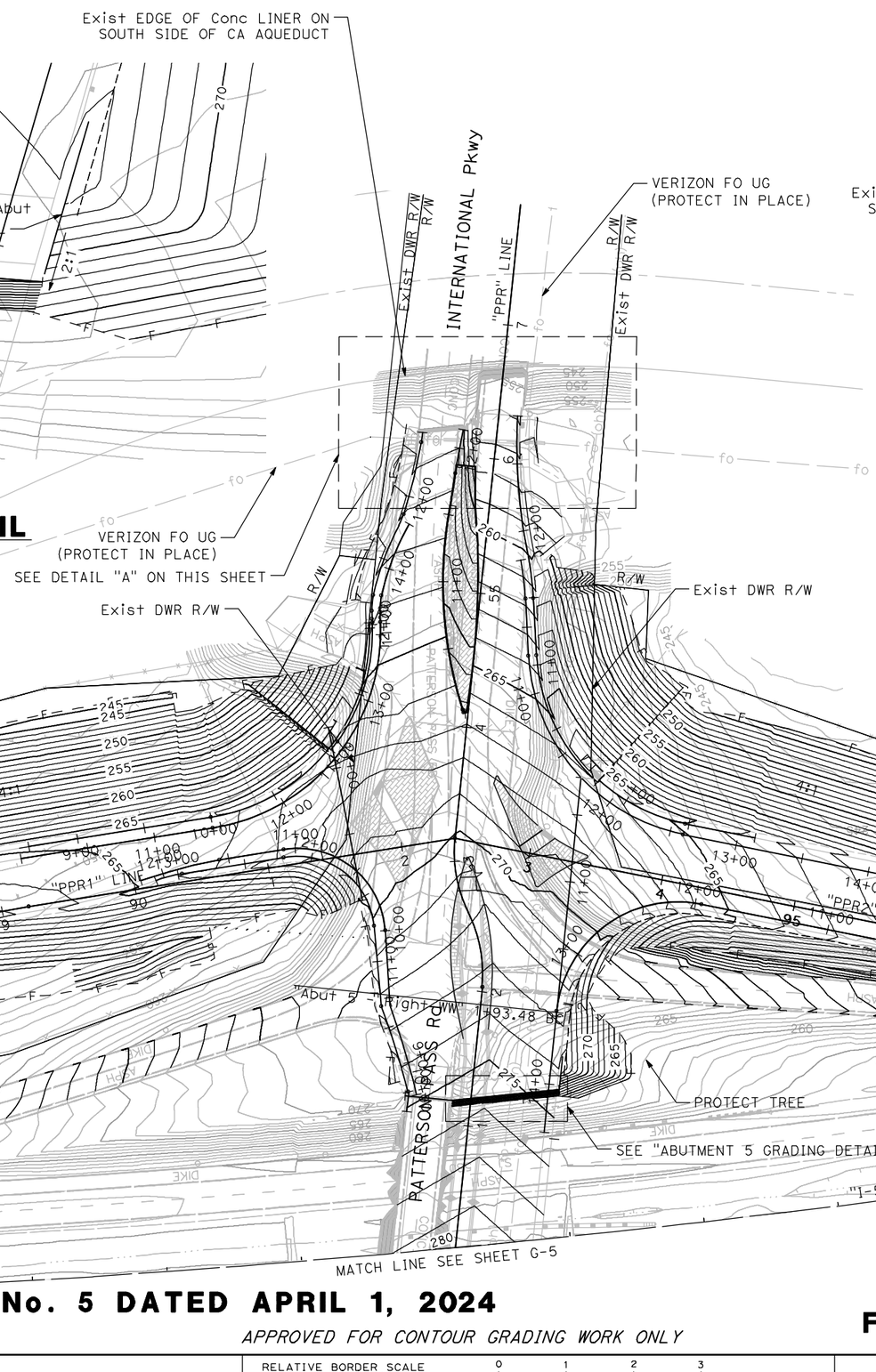
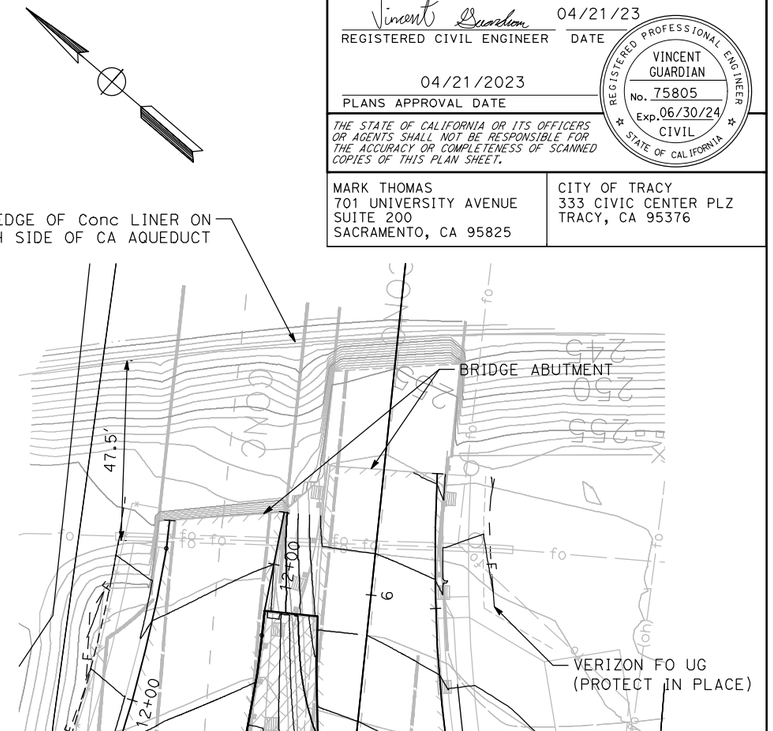
SUITE 200
SACRAMENTO, CA 95825

CITY OF TRACY
333 CIVIC CENTER PLZ
TRACY, CA 95376

ABUTMENT 5 GRADING DETAIL







DETAIL "A"

CONTOUR GRADING
SCALE: 1" = 50'

5 REPLACED PER ADDENDUM No. 5 DATED APRIL 1, 2024

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G-4

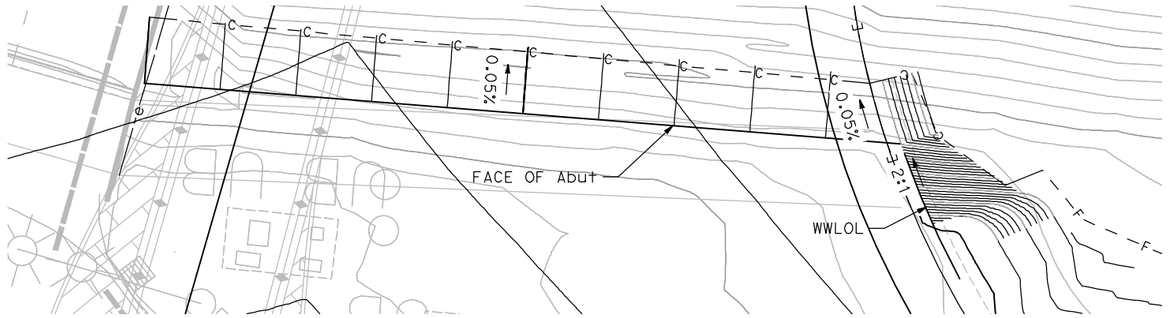
REVISED BY | DATE REVISED
Z. DEWILDE | V. GUARDIAN
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: STEVEN B. BURICK
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION 00-00-00 | DATE PLOTTED => 6-Mar-24 | TIME PLOTTED => 13:33

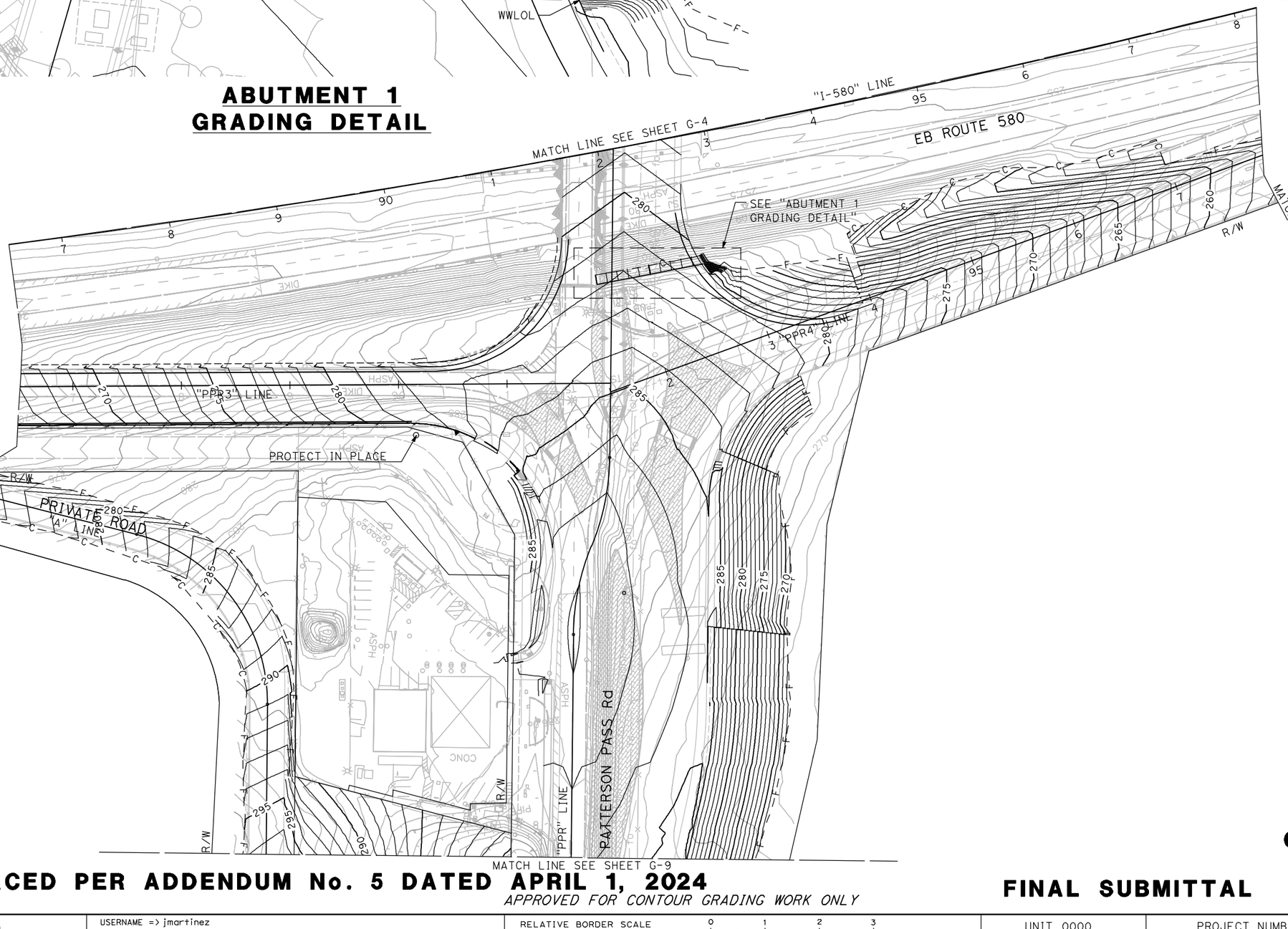
BORDER LAST REVISED 7/2/2010 | USERNAME => jmartinez | DGN FILE => I-580_G-4.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 1015000011

NOTES:

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



ABUTMENT 1 GRADING DETAIL



5 REPLACED PER ADDENDUM No. 5 DATED APRIL 1, 2024

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CONTOUR GRADING

SCALE: 1" = 50'

FINAL SUBMITTAL

G-5

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	68	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

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SUITE 200
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TRACY, CA 95376

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Z. DEWILDE	V. GUARDIAN

CALCULATED-DESIGNED BY
CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR
STEVEN B. BURICK

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 6-Mar-24
TIME PLOTTED => 15:55

BORDER LAST REVISED 7/2/2010 | USERNAME => jmartinez | DGN FILE => I-580_G-5.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 1015000011

NOTES:

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	69	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

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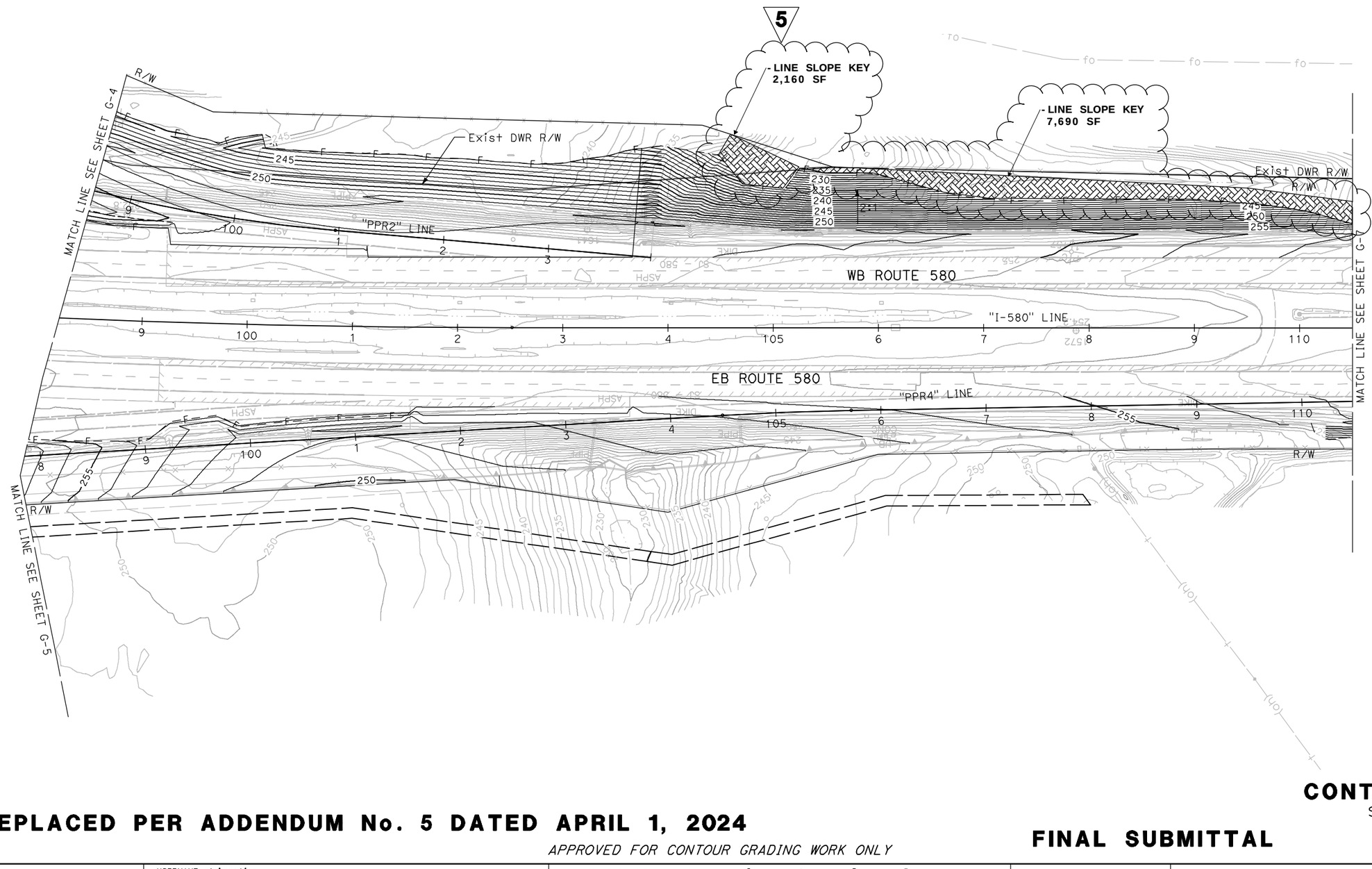
SUITE 200
SACRAMENTO, CA 95825

CITY OF TRACY
333 CIVIC CENTER PLZ
TRACY, CA 95376



CONTOUR GRADING
SCALE: 1" = 50'

5 **REPLACED PER ADDENDUM No. 5 DATED APRIL 1, 2024**

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G-6

REVISED BY	DATE REVISED
Z. DEWILDE	V. GUARDIAN

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CHECKED BY

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STEVEN B. BURICK

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 6-Mar-24
TIME PLOTTED => 15:35

BORDER LAST REVISED 7/2/2010 | USERNAME => jmartinez | DGN FILE => I-580_G-6.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 1015000011

NOTES:

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	70	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

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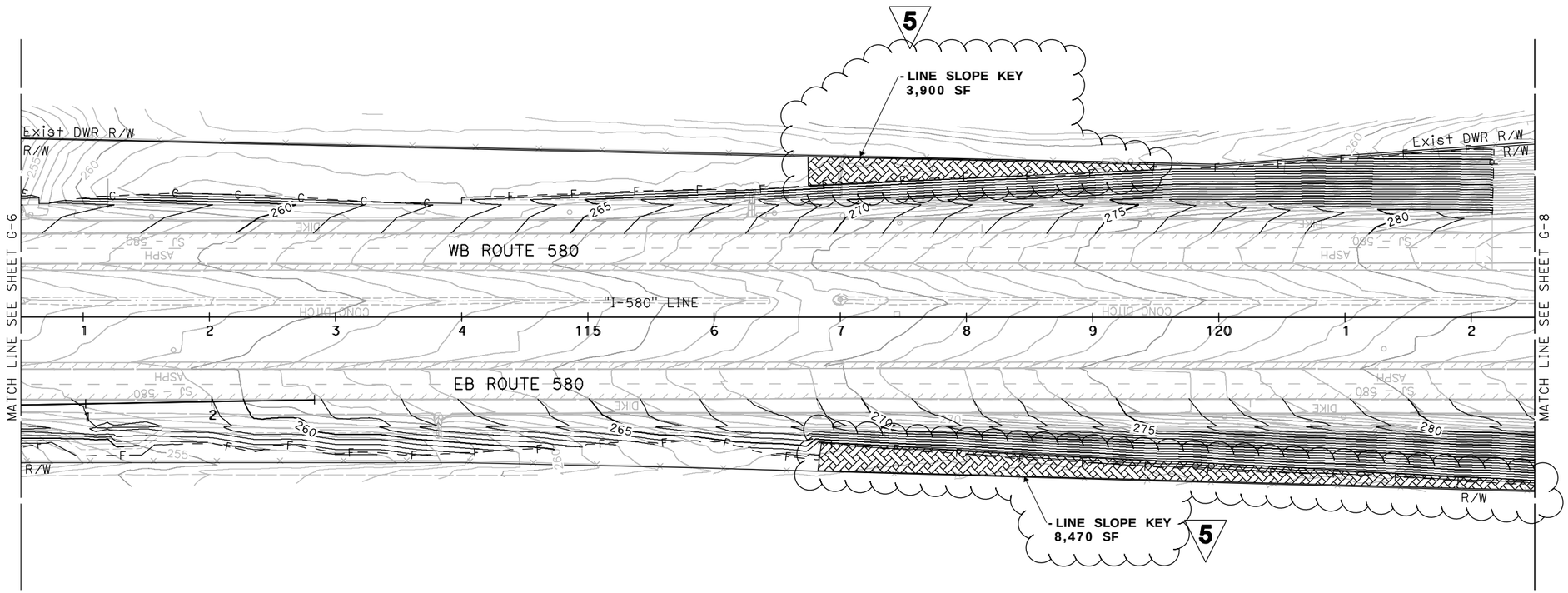
SACRAMENTO, CA 95825

CITY OF TRACY
333 CIVIC CENTER PLZ
TRACY, CA 95376



5 REPLACED PER ADDENDUM No. 5 DATED APRIL 1, 2024

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CONTOUR GRADING
SCALE: 1" = 50'

G-7

CALCULATED-DESIGNED BY: Z. DEWILDE
CHECKED BY: V. GUARDIAN
REVISED BY
DATE REVISED
CONSULTANT FUNCTIONAL SUPERVISOR: STEVEN B. BURICK
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 6-Mar-24
TIME PLOTTED => 16:15

BORDER LAST REVISED 7/2/2010
USERNAME => jmartinez
DGN FILE => I-580_G-7.dwg
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0000
PROJECT NUMBER & PHASE 1015000011

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	71	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

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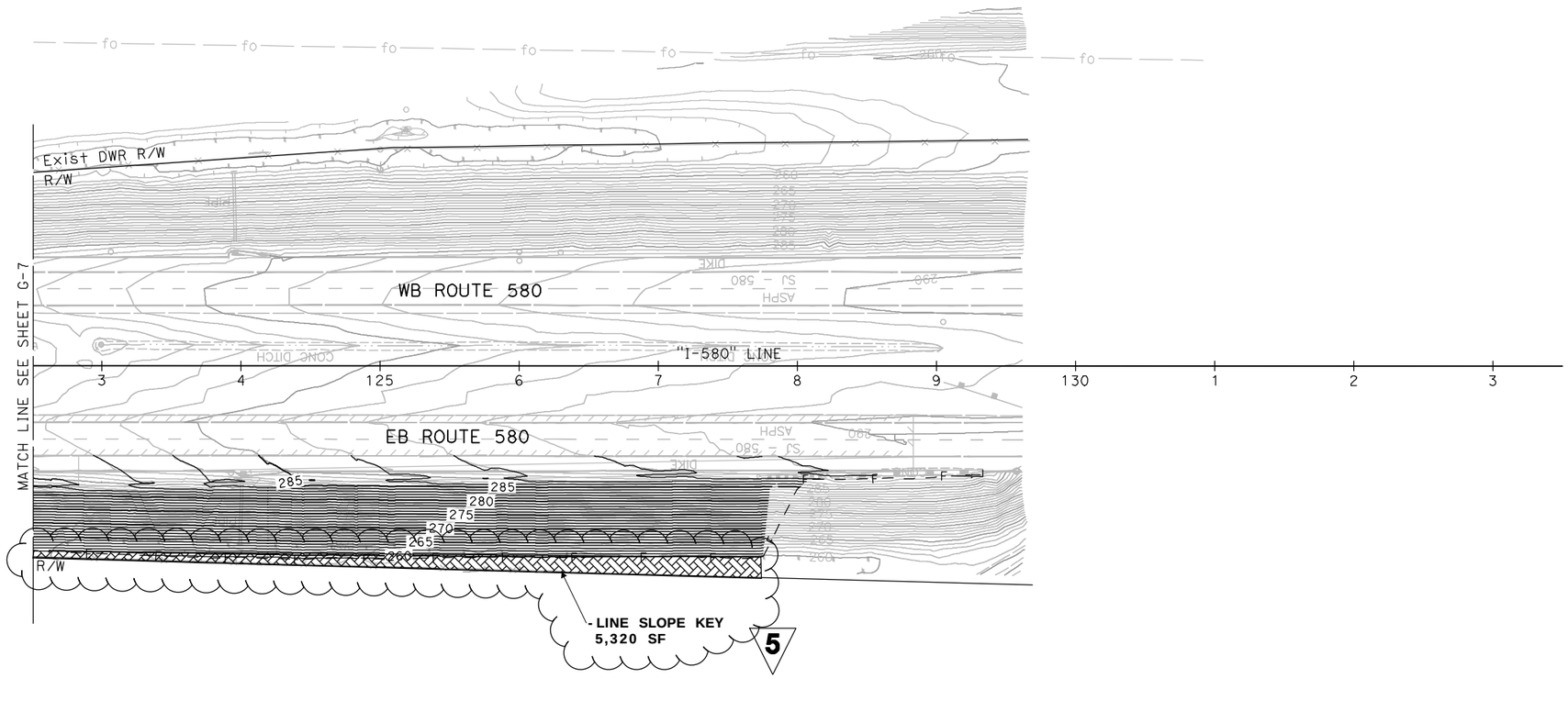
SUITE 200
SACRAMENTO, CA 95825

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.



5 REPLACED PER ADDENDUM No. 5 DATED APRIL 1, 2024

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CONTOUR GRADING

SCALE: 1" = 50'

FINAL SUBMITTAL

G-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: STEVEN B. BURICK

CALCULATED-DESIGNED BY: Z. DEWILDE
CHECKED BY: V. GUARDIAN

REVISED BY	DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 6-Mar-24
TIME PLOTTED => 16:39

BORDER LAST REVISED 7/2/2010
USERNAME => jmartinez
DGN FILE => I-580_G-8.dwg
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0000
PROJECT NUMBER & PHASE 1015000011

NOTES:

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	72	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

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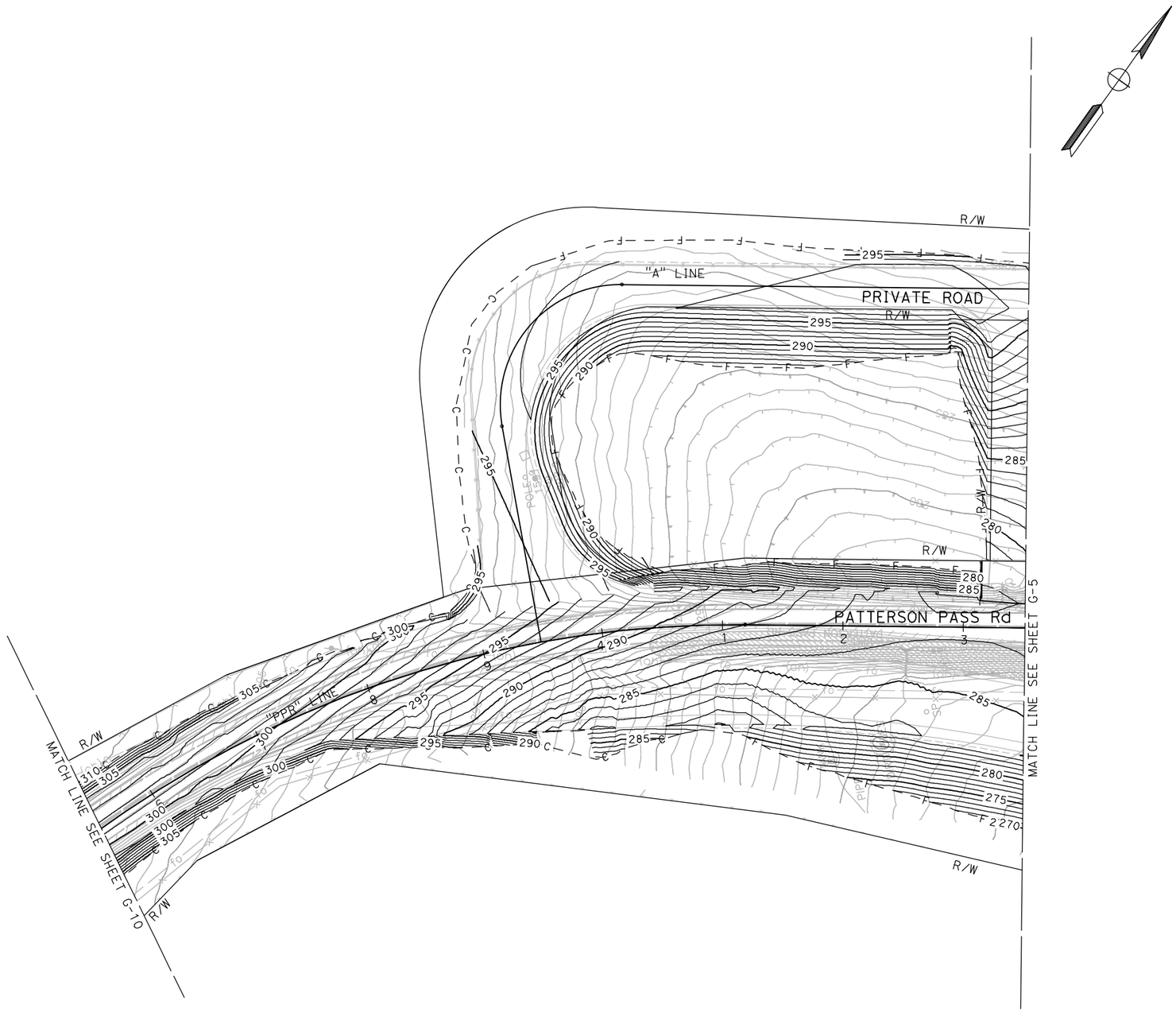
SUITE 200
SACRAMENTO, CA 95825

CITY OF TRACY
333 CIVIC CENTER PLZ
TRACY, CA 95376



REVISED BY	DATE REVISED
Z. DEWILDE	V. GUARDIAN

CALCULATED-DESIGNED BY
CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR
STEVEN B. BURICK

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

5 REPLACED PER ADDENDUM No. 5 DATED APRIL 1, 2024

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CONTOUR GRADING
SCALE: 1" = 50'

FINAL SUBMITTAL

G-9

LAST REVISION 00-00-00
DATE PLOTTED => 6-Mar-24
TIME PLOTTED => 16:52

BORDER LAST REVISED 7/2/2010
USERNAME => jmartinez
DGN FILE => I-580_G-9.dwg
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0000
PROJECT NUMBER & PHASE 1015000011

NOTES:

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	73	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

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SACRAMENTO, CA 95825

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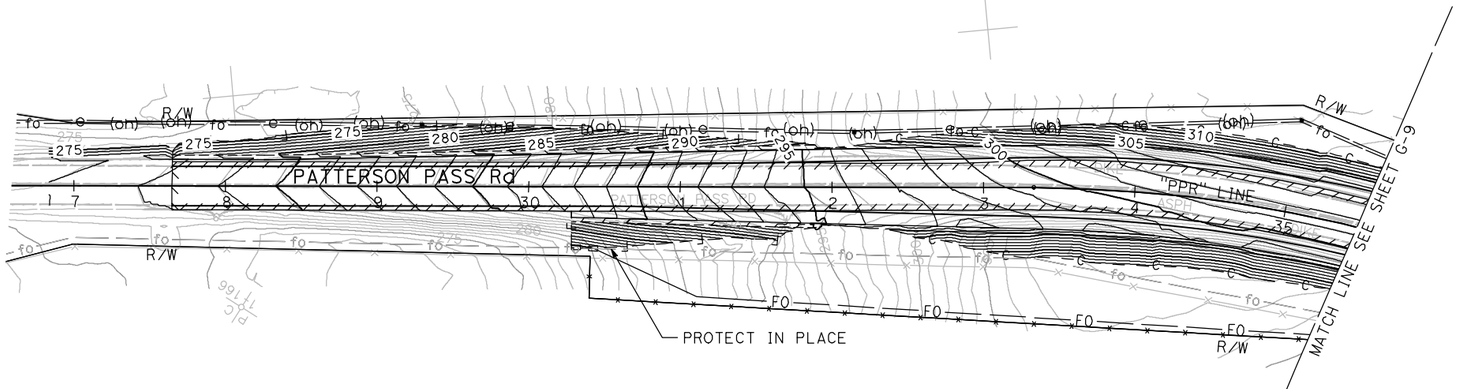
TRACY, CA 95376



REVISED BY	DATE REVISED
Z. DEWILDE	V. GUARDIAN

CALCULATED-DESIGNED BY
CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR
STEVEN B. BURICK

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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5 REPLACED PER ADDENDUM No. 5 DATED APRIL 1, 2024

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CONTOUR GRADING
SCALE: 1" = 50'

FINAL SUBMITTAL

G-10

LAST REVISION 00-00-00
DATE PLOTTED => 6-Mar-24
TIME PLOTTED => 16:26

BORDER LAST REVISED 7/2/2010
USERNAME => jmartinez
DGN FILE => I-580_G-10.dwg
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0000
PROJECT NUMBER & PHASE 1015000011

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	77	321

Flora Diaz 04/21/23
REGISTERED CIVIL ENGINEER DATE

04/21/2023
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — FLORA A. DIAZ — No. 90445 — Exp. 09/30/23 — CIVIL — STATE OF CALIFORNIA

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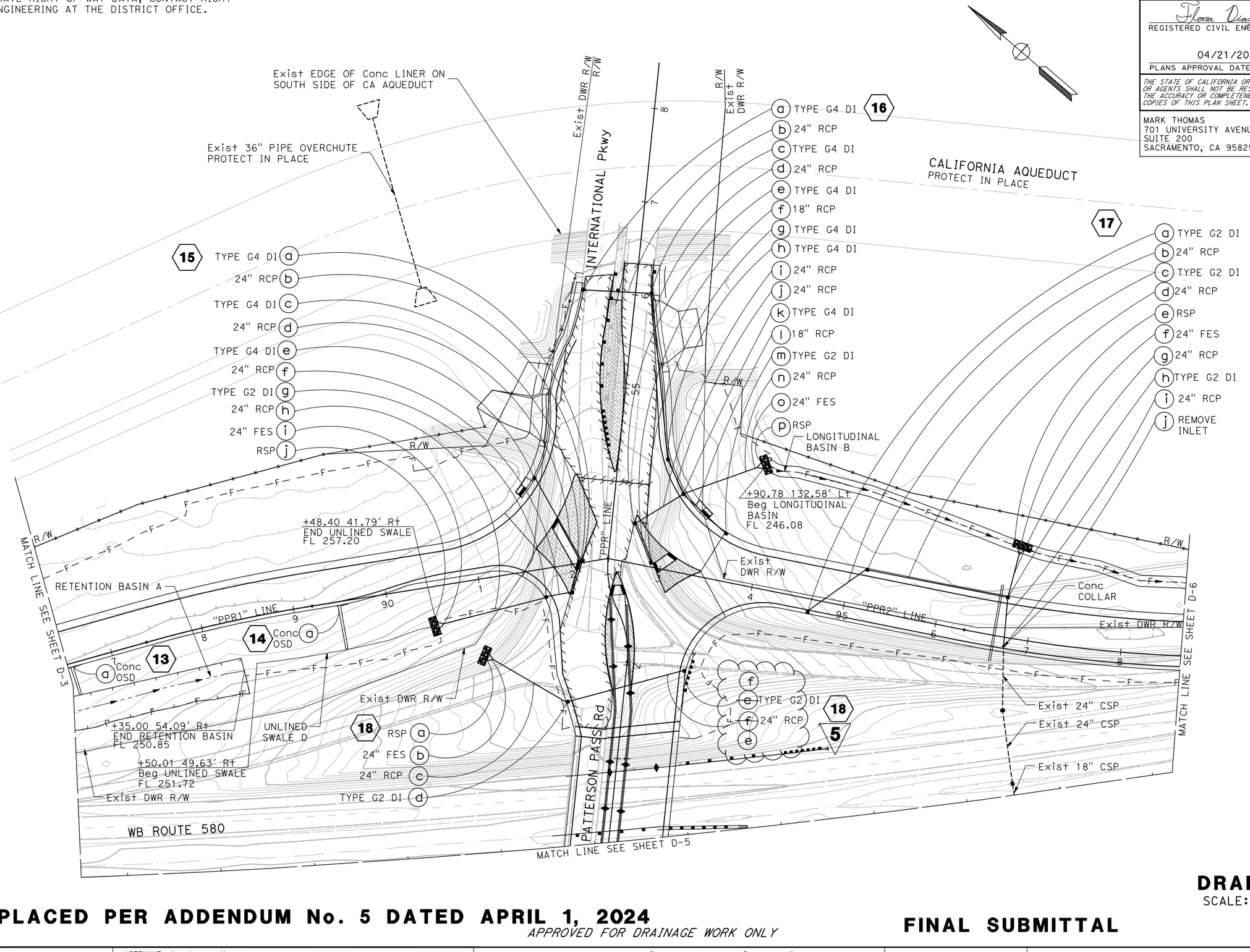
701 UNIVERSITY AVENUE
SUITE 200
SACRAMENTO, CA 95825

CITY OF TRACY
333 CIVIC CENTER PLZ
TRACY, CA 95376



5 REPLACED PER ADDENDUM No. 5 DATED APRIL 1, 2024

APPROVED FOR DRAINAGE WORK ONLY

DRAINAGE

SCALE: 1" = 50'

FINAL SUBMITTAL

D-4

CALCULATED-DESIGNED BY M. PHOUMMATHEP
CHECKED BY F. DIAZ
REVISED BY
DATE REVISED

CONSULTANT FUNCTIONAL SUPERVISOR STEVEN B. BURICK

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 13-Apr-23
TIME PLOTTED => 15:50

BORDER LAST REVISED 7/2/2010
USERNAME => mphoummathep
DGN FILE => I-580_D-4.dwg
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0000
PROJECT NUMBER & PHASE 1015000011

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	91	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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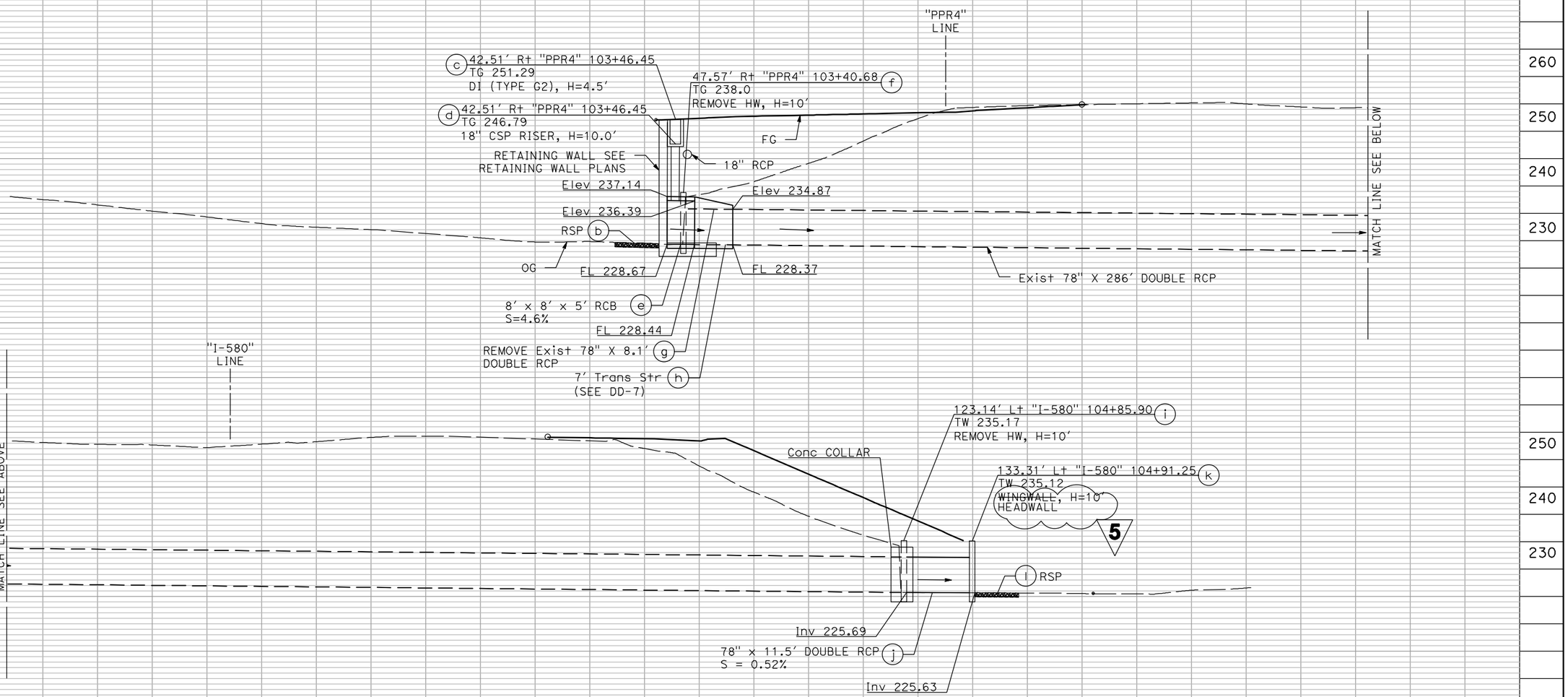
MARK THOMAS
701 UNIVERSITY AVE
SUITE 200
SACRAMENTO, CA 95825

CITY OF TRACY
333 CIVIC CENTER Plz
TRACY, CA 95376



DRAINAGE SYSTEM 28

DRAINAGE PROFILE

SCALE: Horiz 1" = 10'
Vert 1" = 10'

5 REPLACED PER ADDENDUM No. 5
DATED APRIL 1, 2024

FINAL SUBMITTAL

DP-8

REVISED BY | DATE REVISED
M. PHOUMMATHEP | F. DIAZ
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: STEVEN B. BURICK
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION 00-00-00 | DATE PLOTTED => 30-Mar-24 | TIME PLOTTED => 21:49

BORDER LAST REVISED 7/2/2010 | USERNAME => mphoummathep | DGN FILE => I-580_DP-8.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 1015000011

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	92	322

Flora Diaz 04/14/23
REGISTERED CIVIL ENGINEER DATE

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

PLANS APPROVAL DATE

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SUITE 200
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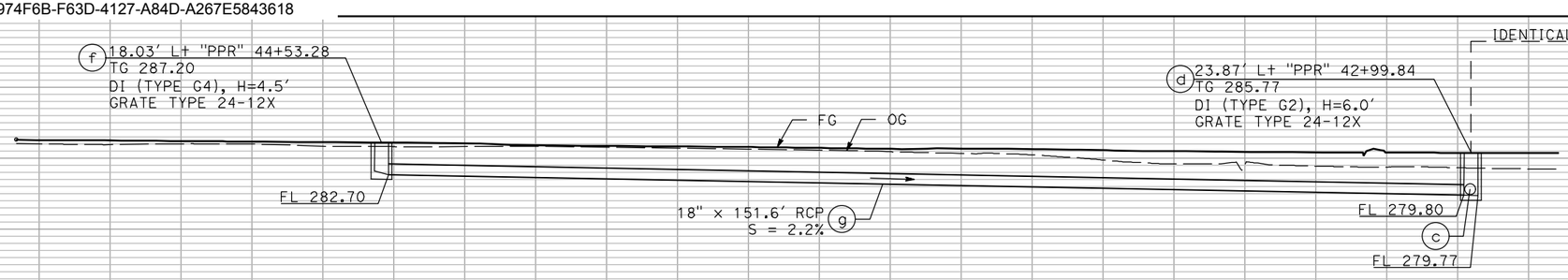
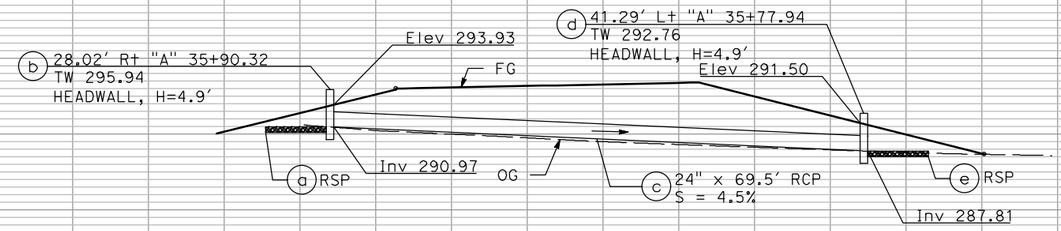
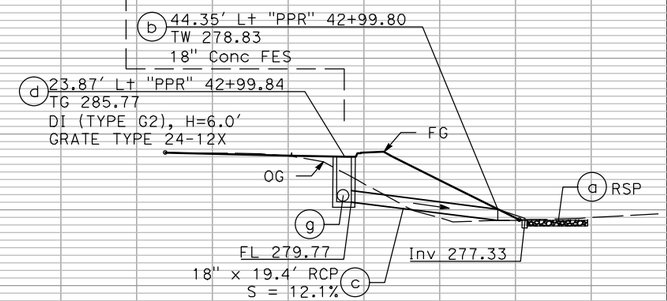
CITY OF TRACY
333 CIVIC CENTER Plz
TRACY, CA 95376

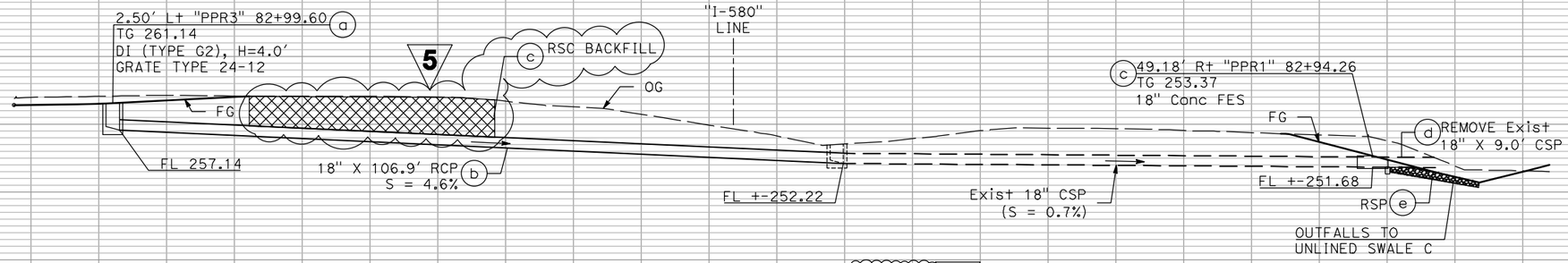




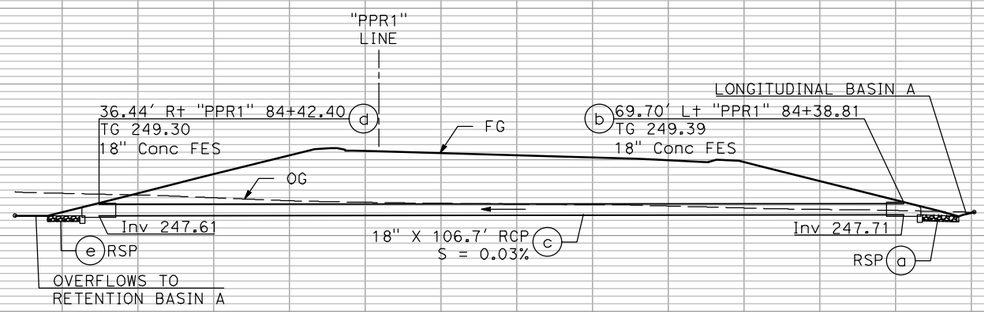
DRAINAGE SYSTEM 40



DRAINAGE SYSTEM 23



DRAINAGE SYSTEM 43 45 1



DRAINAGE SYSTEM 44

5 REPLACED PER ADDENDUM No. 5 DATED APRIL 1, 2024

1 REPLACED PER ADDENDUM No. 1 DATED MARCH 14, 2024

DRAINAGE PROFILE

SCALE: Horiz 1" = 10'
Vert 1" = 10'

FINAL SUBMITTAL

DP-9

REVISED BY | DATE REVISED: M. PHOUMMATHEP | F. DIAZ
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: STEVEN B. BURICK
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION | DATE PLOTTED => 30-Mar-24 | TIME PLOTTED => 23:22
00-00-00

BORDER LAST REVISED 7/2/2010 | USERNAME => jmartinez | DGN FILE => I-580_DP-9.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 1015000011

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	100	322

Flora Diaz 04/14/23
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — FLORA A. DIAZ — No. 90445 — Exp. 09/30/25 — 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

DRAINAGE QUANTITIES

DRAINAGE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	STRUCTURAL CONCRETE, BOX CULVERT (CY)	STRUCTURAL CONCRETE, MODIFIED BOX CULVERT (CY)	STRUCTURAL CONCRETE, HEADWALL (CY)	STRUCTURAL CONCRETE, DRAINAGE INLET (CY)	Misc IRON AND STEEL (LB)	18" CORRUGATED STEEL PIPE RISER (.064" THICK) (LF)	REINFORCED CONCRETE PIPE 18" (LF)	REINFORCED CONCRETE PIPE 24" (LF)	REINFORCED CONCRETE PIPE 30" (LF)	REINFORCED CONCRETE PIPE 78" (LF)	18" PLASTIC PIPE DOWNDRAIN (LF)	18" TAPERED INLET (EA)	FLUME ANCHOR ASSEMBLY (EA)	18" CONRETE FLARED END SECTION (EA)	24" CONRETE FLARED END SECTION (EA)	REMOVE OVERSIDE DRAIN (EA)	REMOVE CULVERT (LF)	REMOVE DOWNDRAIN (EA)	RELOCATE PIPE (EA)	REMOVE HEADWALL (EA)	REMOVE CONCRETE FLARED END SECTION (EA)	REMOVE INLET (EA)	ROCK SLOPE PROTECTION (20 lb,CLASS I,METHOD B) (CY)	GRAVEL FILTER (CY)	MINOR CONCRETE (Misc Const) (CY)	RSC BACKFILL (CY)	PLACE HOT MIX ASPHALT (Misc AREA) (SY)	HOT MIX ASPHALT (TYPE A) (TON)	DRAINAGE INLET MARKER (EA)	(N) 24-12X GRATE (EA)	(N) 24-12 GRATE (EA)	(N) CONCRETE COLLAR (EA)	(N) HEIGHT OF INLET (LF)	(N) HEIGHT OF COVER (LF)	DESCRIPTION	STATION
D-1	1	a											17.2	1																								DOWNDRAIN	
		b																1																				REMOVE EXIST OSD	
D-2	2	a																										0.9										Conc OSD	
		b				0.3												1																				REMOVE EXIST OSD	
		a																										0.8										Conc OSD	
	3	b				28.7												1																				REMOVE EXIST OSD	
		c																				1																RELOCATE PIPE	
	4	a																								1.3	1.2											RSP	
		b			5.2		560.5																												1				STRAIGHT HEADWALL	"PPR1" 72+00.72 41.75' Lt
		c								15.4																												24" RCP	
	5	a																										0.4										Conc OSD	
		b				9.6		4										1																				REMOVE EXIST OSD	
	6	a																										0.2										Conc OSD	
		b				1.0		4										1																				REMOVE EXIST OSD	
		c																													9.2	1.2						HMA OSD	
	7	a				9.6		4																				0.4										Conc OSD	
	8	a				32.5																						0.9										Conc OSD	
		b																1																				REMOVE EXIST OSD	
		c																													17.4	2.3						HMA OSD	
	10	a																								1.3	1.2											RSP	
		b																										6.4										Conc SPILLWAY	
		c				10.1 12.9	1338.3	4																														STRAIGHT HEADWALL	"PPR1" 82+48.97 55.08' Lt
		d									306																										30" TRIPLE RCP	
		e																				1													1			REMOVE HEADWALL	"PPR1" 81+85.52 25.26' Rt
		f																				1													1			REMOVE HEADWALL	"PPR3" 80+75.35 22.70 Rt
		g									33.3																										30" TRIPLE RCP	
		h				10.1 7.2	746.2	4																														STRAIGHT HEADWALL	"PPR3" 80+73.33 27.08' Rt
D-3		i																1																				REMOVE EXIST OSD	
	11	a																										0.2										Conc OSD	
		b																1																				REMOVE EXIST OSD	
	12	a																										0.7										Conc OSD	
		b																1																				REMOVE EXIST OSD	
		c																										0.2										RETAINING WALL END GUTTER	
	19	a																1																				REMOVE EXIST OSD	
		b																													6.8	0.9						HMA OSD	
	45	a				2.9	326																											1		4	2	G2 DI	
		b							106.9																														18" RCP	
		c															1												24								18" FES	"PPR1" 82+94.26 49.18' Rt
		d																	9																			REMOVE 18" CSP	
		e															1									1.0	0.9										RSP	
	44	a																								1.0	0.9										RSP	
		b															1																						18" FES	
		c							106.7																														18" RCP	
		d															1																						18" FES	
		e																								1.0	0.9										RSP	
			0.0	0.0	25.4 25.3	2.9	886.5 3043 2052.7	0.0	213.6	15.4	339.3	0.0	17.2		0.0	4.0	0.0	10.0	9.0	0.0	1.0	2.0	0.0	0.0	5.7	5.0	11.1		33.4	4.4	0.0	0.0							DQ-1 TOTAL	

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

FINAL SUBMITTAL

DRAINAGE QUANTITIES
DQ-1

REVISED BY	DATE REVISED
M. PHOUMMATHEP	F. DIAZ

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: STEVEN B. BURICK

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 31-Mar-24 | TIME PLOTTED => 19:30

BORDER LAST REVISED 7/2/2010 | USERNAME => jmartinez | DGN FILE => I-580_DQ-1.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 1015000011

5 **REPLACED PER ADDENDUM No. 5 DATED APRIL 1, 2024**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	101	322

Flora Diaz 04/14/23
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — FLORA A. DIAZ — No. 90445 — Exp. 09/30/25 — 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

DRAINAGE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	STRUCTURAL CONCRETE, BOX CULVERT (CY)	STRUCTURAL CONCRETE, MODIFIED BOX CULVERT (CY)	STRUCTURAL CONCRETE, HEADWALL (CY)	STRUCTURAL CONCRETE, DRAINAGE INLET (CY)	Misc IRON AND STEEL (LB)	18" CORRUGATED STEEL PIPE RISER (.064" THICK) (LF)	REINFORCED CONCRETE PIPE 18" (LF)	REINFORCED CONCRETE PIPE 24" (LF)	REINFORCED CONCRETE PIPE 30" (LF)	REINFORCED CONCRETE PIPE 78" (LF)	18" PLASTIC PIPE DOWNDRAIN (LF)	FLUME ANCHOR ASSEMBLY (EA)	18" CONRETE FLARED END SECTION (EA)	24" CONRETE FLARED END SECTION (EA)	REMOVE OVERSIDE DRAIN (EA)	REMOVE CULVERT (LF)	REMOVE DOWNDRAIN (EA)	RELOCATE PIPE (EA)	REMOVE HEADWALL (EA)	REMOVE CONCRETE FLARED END SECTION (EA)	REMOVE INLET (EA)	ROCK SLOPE PROTECTION (20 lb, CLASS I, METHOD B) (CY)	GRAVEL FILTER (CY)	MINOR CONCRETE (Misc Const) (CY)	PLACE HOT MIX ASPHALT (Misc AREA) (SY)	HOT MIX ASPHALT (TYPE A) (TON)	DRAINAGE INLET MARKER (EA)	(N) 24-12X GRATE (EA)	(N) 24-12 GRATE (EA)	(N) CONCRETE COLLAR (EA)	(N) HEIGHT OF INLET (LF)	(N) HEIGHT OF COVER (LF)	DESCRIPTION	STATION
D-4	13	a					23.9											0.7															Conc OSD	
	14	a					39.2											1															Conc OSD	
	15	a				7.4	239																					1	1			10	8	G4 DI, GRATE TYPE 24-12X	"PPR" 53+13.26 26.84' Lt
		b							33.3																									24" RCP	
		c				8.6	239																					1	1			12	10	G4 DI, GRATE TYPE 24-12X	"PPR" 52+88.24 40.21' Lt
		d							100.5																									24" RCP	
		e				2.8	239																									4	2	G4 DI, GRATE TYPE 24-12X	"PPR" 53+94.45 87.25' Lt
		f							26.5																									24" RCP	
		g				9.6	239																					1	1			13.5	11.5	G2 DI, GRATE TYPE 24-12X	"PPR" 52+88.48 68.47' Lt
		h							116.9																									24" RCP	
		i													1																			24" Conc FES	"PPR" 52.86.81 95.36' Lt
		j																								1.3	1.2								RSP	
	16	a				2.8	239																					1	1			4	2	G4 DI, GRATE TYPE 24-12X	"PPR" 55+99.90 56.06' Lt
		b							71.3																									24" RCP	
		c				2.8	239																					1	1			4	2	G4 DI, GRATE TYPE 24-12X	"PPR" 56+03.36 17.17' Rt
		d							180.8																									24" RCP	
		e				3.8	239																					1	1			6	4	G4 DI, GRATE TYPE 24-12X	"PPR" 53+57 24.22' Rt
		f							45.6																									18" RCP	
		g				2.8	239			57.7																		1	1			4	2	G4 DI, GRATE TYPE 24-12X	"PPR" 53+17.47 46.00' Rt
		h				9.1	239																					1	1			12.7	10.7	G4 DI, GRATE TYPE 24-12X	"PPR" 54+28.83 52.75' Rt
		i							59.9																									24" RCP	
		j							38.5																									24" RCP	
		k				9.9	239																					1	1			14	12	G4 DI, GRATE TYPE 24-12X	"PPR" 53+93.90 72.93' Rt
		l							60.5																									18" RCP	
		m				4.0	239																					1	1			6.5	4.5	G2 DI, GRATE TYPE 24-12X	"PPR" 52+56.70 122.50' Rt
		n							82.7																									24" RCP	
		p														1																	24" Conc FES	"PPR" 53+30.09 148.22' Rt
		q																								1.3	1.2								RSP	
	17	a				2.4	326																							1		3	1	G2 DI	"PPR2" 94+49.16 14.45' Rt
		b							79.3																									24" RCP	
		c				3	326																							1		4.4	2.4	G2 DI	"PPR2" 95+02.85 42.53' Lt
		d							151.1																									24" RCP	
		e																								1.3	1.2								RSP	
		f														1																			24" Conc FES	"PPR2" 96+75.61 95.51' Lt
		g							46.9																									24" RCP	
		h				7.1	326																							1		9.6	7.6	G2 DI	"PPR2" 96+57.02 42.51' Lt
		i							55.7																									24" RCP	
		j																							1						1			REMOVE DI	"PPR2" 96+61.18 9.61' Lt
	18	a																								1.3	1.2								RSP	
		b														1																			24" Conc FES	"PPR" 51+56.04 191.49' Lt
		c							83.9																									24" RCP	
		d				3.7	239																					1	1			5.7	3.7	G2 DI, GRATE TYPE 24-12X	"PPR" 51+55.08 59.54' Rt
		e							127.7																									24" RCP	
		f				2.9	239																					1	1			4	2	G2 DI, GRATE TYPE 24-12X	"PPR" 52+01.18 59.83' Lt
			0.0	0.0	0.0	82.9	~~4085~~ 4148	0.0	144.6	1274.2	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.3	4.7	1.7	0.0	0.0	12.0	12.0	3.0	1.0			DQ-2 TOTAL	

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

FINAL SUBMITTAL

DRAINAGE QUANTITIES
DQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: STEVEN B. BURICK

CALCULATED-DESIGNED BY: M. PHOUMMATHEP
CHECKED BY: F. DIAZ

REVISED BY | DATE REVISED

LAST REVISION: 00-00-00
DATE PLOTTED => 31-Mar-24
TIME PLOTTED => 19:34

BORDER LAST REVISED 7/2/2010
USERNAME => jmartinez
DGN FILE => I-580_DQ-2.dwg
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0000
PROJECT NUMBER & PHASE 1015000011

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

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — FLORA A. DIAZ — No. 90445 — Exp. 09/30/25 — 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

DRAINAGE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	STRUCTURAL CONCRETE,BOX CULVERT (CY)	STRUCTURAL CONCRETE, MODIFIED BOX CULVERT (CY)	STRUCTURAL CONCRETE, HEADWALL (CY)	STRUCTURAL CONCRETE, DRAINAGE INLET (CY)	Misc IRON AND STEEL (LB)	18" CORRUGATED STEEL PIPE RISER (.064" THICK) (LF)	REINFORCED CONCRETE PIPE 18" (LF)	REINFORCED CONCRETE PIPE 24" (LF)	REINFORCED CONCRETE PIPE 30" (LF)	REINFORCED CONCRETE PIPE 78" (LF)	18" PLASTIC PIPE DOWNDRAIN (LF)	FLUME ANCHOR ASSEMBLY (EA)	18" CONRETE FLARED END SECTION (EA)	24" CONRETE FLARED END SECTION (EA)	REMOVE OVERSIDE DRAIN (EA)	REMOVE CULVERT (LF)	REMOVE DOWNDRAIN (EA)	RELOCATE PIPE (EA)	REMOVE HEADWALL (EA)	REMOVE CONCRETE FLARED END SECTION (EA)	REMOVE INLET (EA)	ROCK SLOPE PROTECTION (20 lb, CLASS I, METHOD B) (CY)	GRAVEL FILTER (CY)	MINOR CONCRETE (Misc Const) (CY)	PLACE HOT MIX ASPHALT (Misc AREA) (SY)	HOT MIX ASPHALT (TYPE A) (TON)	DRAINAGE INLET MARKER (EA)	(N) 24-12X GRATE (EA)	(N) 24-12 GRATE (EA)	(N) CONCRETE COLLAR (EA)	(N) HEIGHT OF INLET (LF)	(N) HEIGHT OF COVER (LF)	DESCRIPTION	STATION
	20	a				2.9	239																						1	1			4	2	G2 DI, GRATE TYPE 24-12X	"PPR" 48+70.82 59.22' L+
		b								146.4																									24" RCP	
		c								112.6																									24" RCP	
		d				2.9	239																						1	1			4	2	G4 DI, GRATE TYPE 24-12X	"PPR" 47+91.64 48.99' L+
		e				2.9	239																						1	1			4	2	G4 DI, GRATE TYPE 24-12X	"PPR" 48+47.65 48.08' R+
		f								59.5																									24" RCP	
		g				3.3	239																						1	1			5	3	G2 DI, GRATE TYPE 24-12X	"PPR" 48+96.50 84.31' R+
		h		1.3 6.4						24.3																									24" RCP	
		i		~~0.6~~ ~~13.3~~		4	713																			4 14.3 ~~7.9~~									PIPE TO Chnl STRUCTURE	"PPR" 48+49.89 176.56' R+
		j																																	Conc Chnl	
		k																							1.3	1.2									RSP	
		a				2.9	239																						1	1			4	2	G4 DI, GRATE TYPE 24-12X	"PPR" 47+02.22 23.92' R+
		b								34.8																									24" RCP	
		c				2.9	239																						1	1			4	2	G4 DI, GRATE TYPE 24-12X	"PPR" 47+91.81 12.45' L+
		d								103.8																									24" RCP	
		e								32																									24" RCP	
		f				3.4	239																						1	1			5.2	3.2	G4 DI, GRATE TYPE 24-12X	"PPR" 46+00.63 51.90' R+
		g			5					77																									24" RCP	
D-5	21	h				4.3	239																						1	1			7.1	5.1	G4 DI, GRATE TYPE 24-12X	"PPR" 45+47.67 121.54' R+
		i																							1.3	1.2									RSP	
		j												1																					24" Conc FES	"PPR" 45+41.69 186.71' R+
		k								65.3																									24" RCP	
		l				2.9	239																						1	1			4	2	G4 DI, GRATE TYPE 24-12X	"PPR" 45+91.03 22.04' L+
		m								41.6																									24" RCP	
		n				3.1	239																						1	1			4.5	2.5	G4 DI, GRATE TYPE 24-12X	"PPR" 46+01.06 18.12' R+
		o																							1										REMOVE DI	
	22	a				2.9	326																								1		4	2	G2 DI	"PPR4" 93+16.24 42.55' R+
		b							199.1																									18" RCP	
		c				2.9	326																								1		4	2	G2 DI	"PPR4" 95+38.55 42.55' R+
		d							175.8																									18" RCP	
		e				2.9	326																								1		4	2	G2 DI	"PPR4" 96+94.53 42.55' R+
		f							186.2																									18" RCP	
	23	f				3.1	239																						1	1			4.5	2.5	G4 DI, GRATE TYPE 24-12X	"PPR" 44+53.28 18.03' L+
		g							151.6																									18" RCP	
		h																							1										REMOVE DI	
	24	a																										24.7	3.3							HMA OSD	
		g				3.3	326																								1		5	3	G2 DI	"PPR4" 98+82.51 42.53' R+
		h							215.5																									18" RCP	
		i				3.3	326																								1		5	3	G2 DI	"PPR4" 100+99.93 42.53' R+
		j							217.8																									18" RCP	
D-6	22	k				3.3	326																								1		5	3	G2 DI	"PPR4" 103+19.63 40.61' R+
		l							144.4																									18" RCP	
		m		4		2.9	326																								1		4	2	G2 DI	"PPR4" 104+66.23 42.37' R+
		n			5															1															REMOVE DOWNDRAIN	
			0.0	~~0.6~~ ~~13.3~~ 1.3 6.4		~~56.1~~ ~~4911~~ 5624	0.0		1290.4	697.3	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	2.0	2.7	2.4	~~7.9~~ 14.3	24.7	3.3	11.0	11.0	7.0	0.0			DQ-3 TOTAL	

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

5 REPLACED PER ADDENDUM No. 5 DATED APRIL 1, 2024

FINAL SUBMITTAL

DRAINAGE QUANTITIES
NO SCALE
DQ-3

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

LAST REVISION 00-00-00
DATE PLOTTED => 31-Mar-24
TIME PLOTTED => 20:07

BORDER LAST REVISED 7/2/2010
USERNAME => jmartinez
DGN FILE => I-580_DQ-3.dwg
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0000
PROJECT NUMBER & PHASE 1015000011

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	103	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

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

DRAINAGE QUANTITIES

DRAINAGE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	STRUCTURAL CONCRETE, BOX CULVERT (CY)	STRUCTURAL CONCRETE, MODIFIED BOX CULVERT (CY)	STRUCTURAL CONCRETE, HEADWALL (CY)	STRUCTURAL CONCRETE, DRAINAGE INLET (CY)	Misc IRON AND STEEL (LB)	18" CORRUGATED STEEL PIPE RISER (.064" THICK) (LF)	REINFORCED CONCRETE PIPE 18" (LF)	REINFORCED CONCRETE PIPE 24" (LF)	REINFORCED CONCRETE PIPE 30" (LF)	REINFORCED CONCRETE PIPE 78" (LF)	18" PLASTIC PIPE DOWNDRAIN (LF)	FLUME ANCHOR ASSEMBLY (EA)	18" CONRETE FLARED END SECTION (EA)	24" CONRETE FLARED END SECTION (EA)	REMOVE OVERSIDE DRAIN (EA)	REMOVE CULVERT (LF)	REMOVE DOWNDRAIN (EA)	RELOCATE PIPE (EA)	REMOVE HEADWALL (EA)	REMOVE CONCRETE FLARED END SECTION (EA)	REMOVE INLET (EA)	ROCK SLOPE PROTECTION (20 lb, CLASS I, METHOD B) (CY)	GRAVEL FILTER (CY)	MINOR CONCRETE (Misc Const) (CY)	PLACE HOT MIX ASPHALT (Misc AREA) (SY)	HOT MIX ASPHALT (TYPE A) (TON)	DRAINAGE INLET MARKER (EA)	(N) 24-12X GRATE (EA)	(N) 24-12 GRATE (EA)	(N) CONCRETE COLLAR (EA)	(N) HEIGHT OF INLET (LF)	(N) HEIGHT OF COVER (LF)	DESCRIPTION	STATION
D-6	22	o															1																			REMOVE EXIST OSD	
		p															1																			REMOVE EXIST OSD	
		q																						1.0	0.9											RSP	
		r						4	2.3																											18" RCP	
	25	a					29.7																			0.7										Conc OSD	
		b															1																			REMOVE EXIST OSD	
	26	a																						1.3	1.2											RSP	
		b				5										1																				24" Conc FES	"PPR" 100+98.27 58.93' Lt
		c								34																										24" RCP	
		d				4.4	326												47.5													1		7.2	5.2	G2 DI	"PPR2" 101+12.59 31.49' Lt
		e																																	REMOVE CULVERT	
		f				6.7	326			47.5																										24" RCP	
		g																													1		8.9	6.9	G2 DI	"PPR2" 101+15.11 15.94' Rt
	27	a					64.1	4																		1.2										Conc OSD	
		b																		1																REMOVE DOWNDRAIN	
	28	a																		1																REMOVE DOWNDRAIN	
		b																						4.6	4.1											RSP	
		c				3.1	326																									1		4.5	2.5	G2 DI	"PPR4" 103+46.45 42.51' Rt
		d						10																												18" CSP RISER	
		e	~~13.4~~ 90.5				1545	4																												REINFORCED CONCRETE BOX	"PPR4" 103+48.29 39.50' Rt
		f																			1															REMOVE HEADWALL	"PPR4" 103+40.68 47.57' Rt
		g		4															16.2																	REMOVE EXIST DOUBLE 78" RCP	
		h	~~31.3~~ 13.5				1967																													Trans Str	"PPR4" 103+51.91 33.57' Rt
		i																			1															REMOVE HEADWALL	"I-580" 104+85.90 123.14' Lt
		j										23																								78" DOUBLE RCP	
		k			~~79.7~~ 79.9		8118																															WINGWALL	
		l																						15.6	13.9											RSP	
	29	a					48.8																			1.2										Conc OSD	
	30	a																						1.3	1.2											RSP	
		b														1																				24" Conc FES	"PPR4" 108+97.73 29.14' Rt
		c								2.3																										24" RCP	
		d																				1														REMOVE Conc FES	
		e																				1														REMOVE Conc FES	
		f								15.9																										24" RCP	
		g														1																				24" Conc FES	"I-580" 109+00.32 117.53' Lt
		h																						1.3	1.2											RSP	
	31	a																									4.9	0.7								HMA OSD	
	32	a																						1.0	0.9											RSP	
		b				5									1																						18" Conc FES	"I-580" 110+01.23 108.54' Lt
		c							17.4																												18" RCP	
			4 ~~44.7~~ 204.01	0.0	~~79.7~~ 79.9	14.2	~~978.0~~ 12,751	0.0	19.7	99.7	0.0	23.0	0.0	0.0	1.0	3.0	3.0	63.7	2.0	0.0	2.0	2.0	0.0	26.3	23.4	3.1	4.9	0.7	0.0	0.0	3.0	1.0			DQ-4 TOTAL	

5 REPLACED PER ADDENDUM No. 5 DATED APRIL 1, 2024

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

DRAINAGE QUANTITIES
NO SCALE

FINAL SUBMITTAL

DQ-4

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

LAST REVISION 00-00-00 | DATE PLOTTED => 31-Mar-24 | TIME PLOTTED => 21:05

BORDER LAST REVISED 7/2/2010 | USERNAME => jmartinez | DGN FILE => I-580_DQ-4.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 1015000011

5 REPLACED PER ADDENDUM No. 5
DATED APRIL 1, 2024

DRAINAGE QUANTITIES

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	104	322

Flora Diaz 04/14/23
REGISTERED CIVIL ENGINEER DATE
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FLORA A. DIAZ No. 90445 Exp. 09/30/25 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

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"	REINFORCED CONCRETE PIPE 24"	REINFORCED CONCRETE PIPE 30"	REINFORCED CONCRETE PIPE 78"	18" PLASTIC PIPE DOWNDRAIN	18" TAPERED INLET	FLUME ANCHOR ASSEMBLY	18" CONRETE FLARED END SECTION	24" CONRETE 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)	RSC BACKFILL	PLACE HOT MIX ASPHALT (Misc AREA)	HOT MIX ASPHALT (TYPE A)	DRAINAGE INLET MARKER	(N) 24-12X GRATE	(N) 24-12 GRATE	(N) CONCRETE COLLAR	(N) HEIGHT OF INLET	(N) HEIGHT OF COVER	DESCRIPTION	STATION
			CY	CY	CY	CY	LB	LF	LF				LF	EA	EA	EA	EA	EA	LF	EA	EA	EA	EA	EA	CY	CY	CY	CY	SY	TON	EA	EA	EA	EA	LF	LF		
		c							17.4																									1			18" RCP	
D-7	33	a																											2.8	0.4							HMA OSD	
		b															1																			REMOVE EXIST OSD	
	34	a																											7.5	1							HMA OSD	
		b															1																			REMOVE EXIST OSD	
	35	a																											4.3	0.6							HMA OSD	
		b															1																			REMOVE EXIST OSD	
	36	a							8.5																												18" RCP	
		b													1																	1			18" Conc FES	"I-580" 117+00.68 104.75' Lt
		c																					1.0	0.9											RSP	
	37	a																											8.6	1.2							HMA OSD	
	38	a										55		1																					DOWNDRAIN w/ ANCHOR ASSEMBLY	
D-8	39	a										50		1																					DOWNDRAIN w/ ANCHOR ASSEMBLY	
		b																	1																	REMOVE DOWNDRAIN	
D-9	23	a																					1.0	0.9											RSP	
		b														1																				18" Conc FES	"PPR" 42+99.83 41.55' Lt
		c								19.4																										18" RCP	
		d				3.8	326																								1	1			6	4	G2 DI, GRATE TYPE 24-12X	"PPR" 42+99.75 23.87' Lt
		e																	1																	REMOVE DOWNDRAIN	
	40	a																					1.0	0.9											RSP	
		b			~~5.2~~ 10.2		1060																													STRAIGHT HEADWALL	"A" 35+90.32 28.02' Rt
		c								69.5																										24" RCP	
		d			~~5.2~~ 7.4		740																													STRAIGHT HEADWALL	"A" 35+77.94 41.29' Lt
		e																					1.3	1.2											RSP	
	41	a																											8.7	1.2							HMA OSD	
	42	a																											2.6	0.4							HMA OSD	
	43	a																											17.8	2.3							HMA OSD	
		b																	1																	REMOVE DOWNDRAIN	
			0.0	0.0	~~25.4~~	2.9	~~886.5~~ 30432,052.7	0.0	213.6	15.4	339.3	0.0	17.2	1	0.0	4.0	0.0	10.0	9.0	0.0	1.0	2.0	0.0	0.0	5.7	5.0	11.1	24	33.4	4.4	0.0	0.0	1.0	3.0			DQ-1 TOTAL	
			0.0	0.0	25.3	82.9	~~4085.0~~ 4,148	0.0	144.6	1274.2	0.0	0.0	0.0		0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.3	4.7	1.7		0.0	0.0	12.0	12.0	3.0	1.0			DQ-2 TOTAL	
			0.0	~~0.6~~ 17.6	~~13.3~~ 17.6	56.1	~~4911.0~~ 17.65,624	0.0	1290.4	697.3	0.0	0.0	0.0		0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	2.0	2.7	2.4	~~7.9~~ 14.3		24.7	3.2	11.0	11.0	7.0	0.0			DQ-3 TOTAL	
			~~44.7~~ 204.01	~~0.0~~	~~79.7~~ 79.9	14.2	~~978.0~~ 12,751	10.0	19.7	99.7	0.0	23.0	0.0		0.0	1.0	3.0	3.0	63.7	2.0	0.0	2.0	2.0	0.0	26.3	23.4	3.1		4.9	0.7	0.0	0.0	3.0	1.0			DQ-4 TOTAL	
			~~0.0~~	0.0	~~10.4~~ 17.6	3.8	~~326.0~~ 2,126	0.0	8.5	88.9	0.0	0.0	105.0		2.0	1.0	1.0	3.0	0.0	3.0	0.0	0.0	0.0	0.0	4.3	3.9	0.0		52.3	7.1	1.0	1.0	0.0	1.0			DQ-5 TOTAL	
			~~44.7~~ 204.01	~~0.6~~ 17.6	~~128.8~~ 140.4	159.9	~~11,186.5~~ 22,085.6 26,701.7	10.0	1,676.8	2,175.5	339.3	23.0	122.2	1	2.0	6.0	9.0	16.0	72.7	6.0	1.0	4.0	2.0	3.0	44.3	39.4	~~23.8~~ 30.2	24	115.3	15.4	24.0	24.0	14.0	6.0			GRAND TOTAL	

* - FOR GRAND TOTAL OF HOT MIX ASPHALT (TYPE A), SEE HOT MIX ASPHALT TABLE ON SHEET Q-2
** - FOR GRAND TOTAL OF MINOR CONCRETE (Misc Const), SEE Minor CONCRETE TABLE ON SHEEET Q-1

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

DRAINAGE QUANTITIES
NO SCALE
DQ-5

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

ROADWAY

STATION LIMITS	COLD PLANE AC Pvmt	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 (TL 3)
			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			
	"I-580" 91+55.53 TO "I-580" 93+64.19	L†	87.5	112.5				1	1	1
L-5	"I-580" 90+75.74 TO "I-580" 92+83.96	R†	87.5	112.5				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			
	"PPR" 47+49.13 TO "PPR4" 93+14.74	R†			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 Std 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

5 REPLACED PER ADDENDUM No. 5 DATED APRIL 1, 2024

MINOR CONCRETE (Misc Const) - DIKE

STATION	SIDE	DIKE TYPE C	DIKE TYPE E	DIKE TYPE F	CY
		LF	LF	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 TYPE A	PLACE HMA DIKE TYPE E	HMA
		LF	LF	TON
"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.

4

DETECTABLE WARNING SURFACE

5

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	189	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

MARK THOMAS
701 UNIVERSITY AVENUE
SUITE 200
SACRAMENTO, CA 95825

CITY OF TRACY
333 CIVIC CENTER PLZ
TRACY, CA 95376

REVISED BY | DATE REVISED
G. CHUDABALA | V. GUARDIAN
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: STEVEN B. BURICK
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
FINAL SUBMITTAL
Q-1

LAST REVISION | DATE PLOTTED => 30-Mar-24
00-00-00 | TIME PLOTTED => 18:28

BORDER LAST REVISED 7/2/2010 | USERNAME => gchudabala | DGN FILE => I-580_Q-1.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 1015000011

VEGETATION CONTROL (MINOR Conc)

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

FENCE

4

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

4 * 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	Lt		134	
	"PPR" 51+35.22 TO "PPR" 52+61.20	Rt		127	
	"I-580" 91+75.92 TO "I-580" 92+95.36	Lt			118
L-5	"PPR" 48+41.02 TO "48+85.04	Lt	53		
	"PPR" 48+72.62 TO "PPR" 48+83.87	Lt		95	
	"PPR" 48+79.69 TO "PPR" 48+83.87	Rt		106	
	"I-580" 91+23.01 TO "I-580" 92+69.55	Rt			148
TOTAL			53	462	266

4 *** 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	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

4

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

4 IM REPRESENTS NON-PAYABLE ITEM

REMOVAL

5

STATION	SIDE	REMOVE GUARDRAIL	TREATED WOOD WASTE (GUARDRAIL)	REMOVE FENCE (TYPE BW, METAL POST)	REMOVE FENCE (STEEL TUBULAR)	REMOVE CONCRETE CURB A1-8	REMOVE CONCRETE 9" PCC
		LF	LB	LF	LF	CY	CY
"PPR" 43+66.03 TO "PPR" 43+98.96	Lt	91	999				
"PPR" 48+39.44 TO "PPR" 48+67.97	Lt	63	692				
"PPR" 51+33.52 TO "PPR" 51+65.85	Lt	42	461				
"PPR" 54+36.95 TO "PPR" 56+00.89	Lt	224	2460				
"PPR" 55+75.52 TO "PPR" 56+39.84	Rt	65	714				
"PPR" 55+88.26 TO "PPR" 56+35.11	Lt	48	527				
"I-580" 90+67.41 TO "I-580" 91+31.05	Rt	65	714				
"I-580" 92+36.45 TO "I-580" 93+18.73	Lt	82	901				
"I-580" 61+38.58 TO "PPR1" 90+65.74	Lt			3206			
"PPR" 54+62.28 TO "I-580" 105+57.62	Rt to Lt			1,362			
"PPR3" 83+64.08 TO "PPR" 46+08.88	Rt to Lt			773			
"PPR3" 85+22.59 TO "PPR" 45+52.58	Rt			635			
"PPR4" 91+86.04 TO "PPR4" 101+83.58	Rt			1019			
"A" 31+81.75 TO "PPR" 38+66.20	Lt			728			
"PPR" 30+40.44 TO "PPR4" 91+77.95	Rt			1668			
"PPR" 47+58.80 TO "PPR" 47+84.52	Lt					3	
"PPR" 52+17.65 TO "PPR" 53+17.97	Rt					9	
"PPR" 44+87.98 TO "PPR" 45+49.51	Lt						27
"PPR3" 90+45.88 TO "PPR3" 90+91.22	Rt				120		
SUBTOTAL		680	7468	9,391	120	12	27
GRAND TOTAL		680	7468**	9,511		39	

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

EARTHWORK

LOCATION/DESCRIPTION	ROADWAY EXCAVATION ROADWAY EXCAVATION	ROADWAY EXCAVATION BASIN/DITCH EXCAVATION	EMBANKMENT (N)	IMPORT BORROW
	CY	CY	CY	CY
WB ON-RAMP "PPR1" LINE	9,970	1,436	38,267	28,002
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~~ 2,210			
EB "I-580" LINE SLOPE KEY	2,042			
STAGE CONSTRUCTION	4,229			(4,229)
SUBTOTAL	~~32,123~~ 31,797	8,828	145,327	114,975
GRAND TOTAL	40,951		145,327	114,975

5

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

5 REPLACED PER ADDENDUM No. 5 DATED APRIL 1, 2024

SUMMARY OF QUANTITIES

FINAL SUBMITTAL

Q-2

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

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

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

LAST REVISION 00-00-00 | DATE PLOTTED => 30-Mar-24 | TIME PLOTTED => 18:28

BORDER LAST REVISED 7/2/2010 | USERNAME => gchudabala | DGN FILE => I-580_Q-2.dwg | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0000 | PROJECT NUMBER & PHASE 1015000011

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	580	12.6/14.3	199	322

Flora Diaz 04/14/23
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
FLORA A. DIAZ
No. 90445
Exp. 09/30/25
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

SEED MIX

BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (PLS LBS/ACRE)**
BROMUS CARINATUS (CALIFORNIA BROME)	75	6.0
ERIOGONUM FASCICULATUM (CALIFORNIA BUCKWHEAT)	10	1.0
LASTHENIA CALIFORNICA (CALIFORNIA GOLDFIELDS)	50%	0.5
ACMISPON GLABER (DEERWEED)	40%	2.0
STIPA PULCHRA (PURPLE NEEDLEGRASS)	70%	3.0
FESTUCA MICROSTACHYS (SMALL FESCUE)	70%	6.0
ACHILLEA MILLEFOLIUM (WHITE YARROW)	60%	0.5
LUPINUS BICOLOR (MINIATURE LUPINE)	65%	2.0
TOTAL		21

** "PLS LBS/ACRE" DOES NOT EQUAL TO "LB/ACRE". PLS LBS/ACRE IS THEMOST ACCURATE WAY TO SPECIFY SEEDS AND TAKES INTO ACCOUNT BOTH PURITY AND GERMINATION. PLS % = % PURITY X % GERMINATION.

EROSION CONTROL

SEQUENCE	ITEM	MATERIAL DESCRIPTION	MATERIAL TYPE	APPLICATION RATE	REMARKS
STEP 1	COMPOST	COMPOST	MEDIUM	270 CY/ACRE	2" DEPTH
STEP 2	BONDED FIBER MATRIX	5 HYDROSEED	SEED MIX	21 LB/ACRE	
		BONDED FIBER MATRIX		3500 LB/ACRE	

FIBER ROLLS *

SEQUENCE	ITEM	MATERIAL DESCRIPTION	MATERIAL TYPE	REMARKS
IN EC AREAS, FIBER ROLLS MUST BE INSTALLED AFTER COMPOST AND BEFORE HYDROSEED.	FIBER ROLLS	TEMPORARY PREMANUFACTURED FIBER ROLLS FILLED WITH RICE OR WHEAT STRAW, WOOD EXCELSIOR, OR COCONUT FIBER AND COVERED WITH BIODEGRADABLE JUTE, SISAL, OR COIR FIBER (TYPE 1 ~~AND TYPE 2~~) 5	8" TO 10" DIA.	SEE NOTES

* PLACE FIBER ROLLS ON SLOPE AT REGULAR INTERVALS SHOWN BELOW AT GRADE BREAKS AND AT THE TOP AND TOE OF SLOPE. ALIGN FIBER ROLLS WITH SLOP CONTOURS.

10 FEET APART ALONG SLOPE DISTANCE FOR SLOPES STEEPER THAN 2:1
15 FEET APART ALONG SLOPE DISTANCE FOR SLOPES FROM 2:1 TO 4:1
20 FEET APART ALONG SLOPE DISTANCE FOR SLOPES FROM 4:1 TO 10:1
50 FEET APART ALONG SLOPE DISTANCE FOR SLOPES FLATTER THAN 10:!

5 **REPLACED PER ADDENDUM No. 5 DATED APRIL 1, 2024**

APPROVED FOR EROSION CONTROL WORK ONLY

EROSION CONTROL LEGEND

NO SCALE

FINAL SUBMITTAL

ECL-1

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

LAST REVISION 00-00-00
DATE PLOTTED => 29-Mar-24
TIME PLOTTED => 16:23

BORDER LAST REVISED 7/2/2010
USERNAME => mlam
DGN FILE => I-580_ECL-1.dwg
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0000
PROJECT NUMBER & PHASE 1015000011