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ABBREVIATIONS:

- CL - CENTERLINE
- EP - EDGE OF PAVEMENT
- FL - FLOWLINE
- HP - HINGE POINT
- AP - ANGLE POINT
- OG - ORIGINAL GROUND
- RSP - ROCK SLOPE PROTECTION
- MGS - MIDWEST GUARDRAIL SYSTEM

CONTRACTOR'S LICENSE CLASSIFICATION: Bidders shall be properly licensed to perform the Work pursuant to the State Contractor's License Act (Business and Professions Code section 7000 et seq.) and shall possess a CLASS A LICENSE or equivalent combination of Classes required by the categories and type of Work included in the Contract Documents and Plans. Failure of the successful Bidder to obtain proper and adequate licensing at the time bids are submitted shall constitute a failure to execute the Contract, and forfeiture as provided under that section.

REVISIONS

| MARK | DATE | BY |
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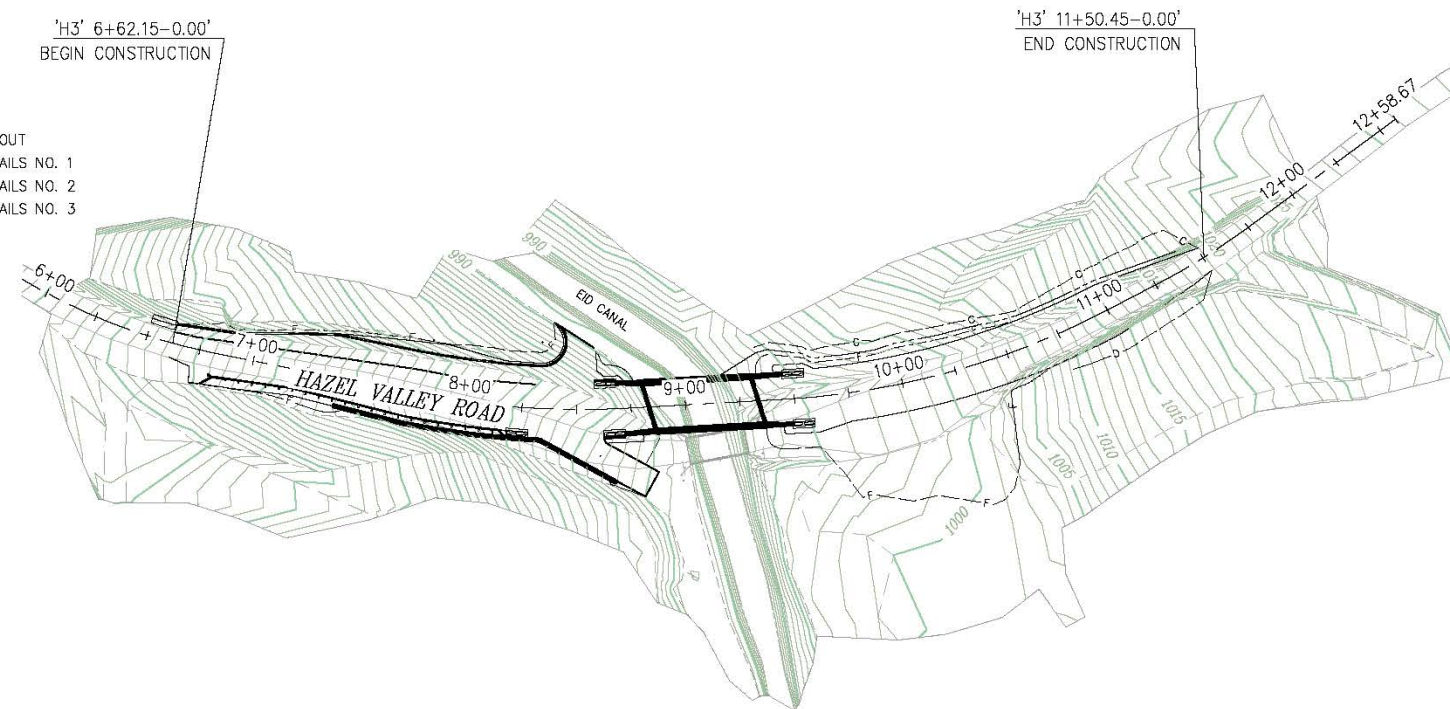
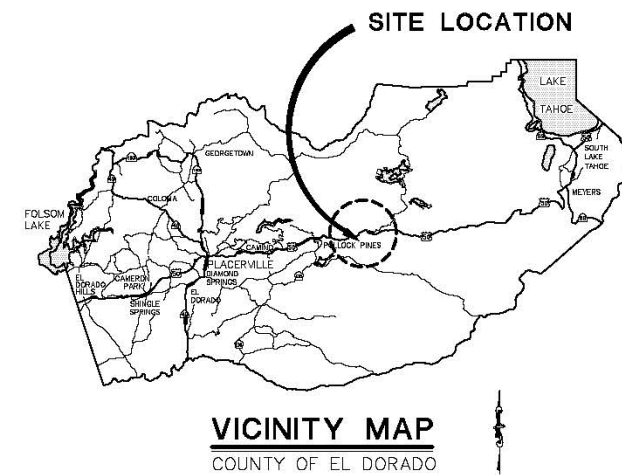


**COUNTY OF EL DORADO, CA
DEPARTMENT OF TRANSPORTATION**

**PROJECT PLANS FOR THE CONSTRUCTION OF
HAZEL VALLEY ROAD AT EID CANAL
BRIDGE REPLACEMENT**

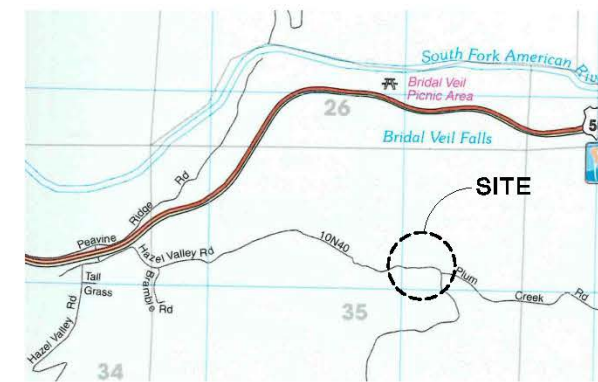
IN THE COUNTY OF EL DORADO, DISTRICT 5
5 MILES EAST OF POLLOCK PINES AND
APPROX. 3/4 MI. SOUTHEAST OF HWY 50, ON HAZEL VALLEY ROAD

To be supplemented with Standard Plans and Specifications dated 2015, including the 2015 revised Standard Specifications, of the California Department of Transportation, unless otherwise noted.



SITE PLAN

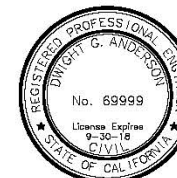
SCALE: 1"=40'



LOCATION MAP

NOT TO SCALE

**FEDERAL AID PROJECT
BRLO 5925 (091)**



Dwight G. Anderson 3-14-18
SUBMITTED BY: CIVIL ENGINEER DATE
STATE OF CALIFORNIA NO.

BOARD OF SUPERVISORS

| | |
|-----|-----------------|
| I | JOHN HIDAHL |
| II | SHIVA FRENTZEN |
| III | BRIAN VEERKAMP |
| IV | MICHAEL RANALLI |
| V | SUE NOVASEL |

**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

(530) 621-5900
2850 FAIRLANE CT
PLACERVILLE, CA 95667

ADOPTED AND APPROVED BY:

| DATE | DATE | DATE |
|------|------|------|
| | | |

MICHAEL RANALLI
CHAIR, EL DORADO COUNTY BOARD OF SUPERVISORS

APPROVED BY:

RAFAEL MARTINEZ, DIRECTOR
DEPARTMENT OF TRANSPORTATION

JOHN H. SAKLING P.E. NO. 632426
SENIOR DIRECTOR, ENGINEERING

PW NO. 16-31144 PROJECT NO. 77125

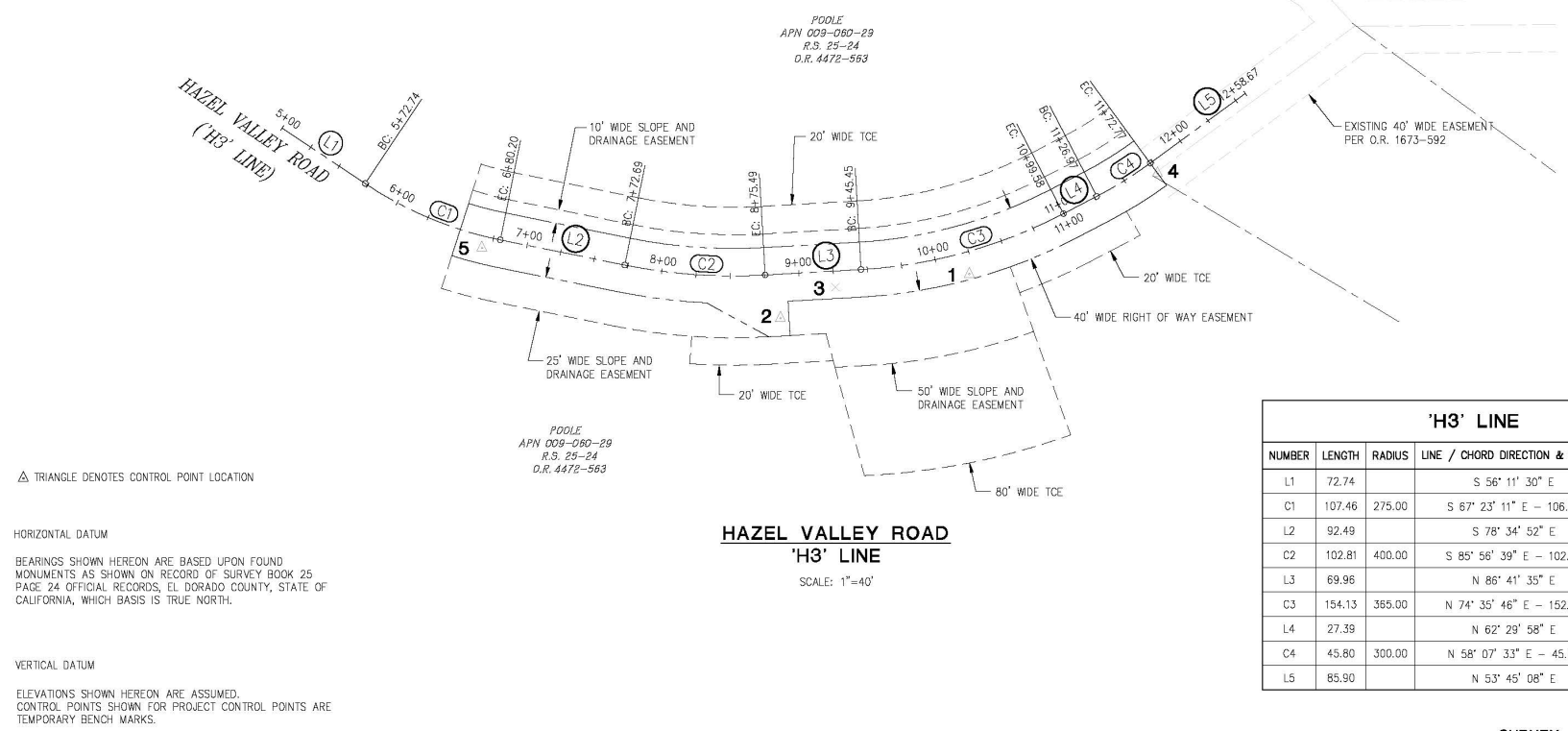
**HAZEL VALLEY ROAD AT EID CANAL
BRIDGE REPLACEMENT**

TITLE SHEET

SHEET 1 OF 41

ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS
 1" = 40'
 0 1 2 3 4 5 6 7 8 9 10
 REVISION
 NO. DATE DESCRIPTION BY

| CONTROL TABLE | | | | |
|---------------|-----------|----------|----------|------------------|
| POINT # | ELEVATION | NORTHING | EASTING | DESCRIPTION |
| 1 | 1000.00 | 9984.61 | 49992.72 | 13 MAG |
| 2 | 990.45 | 9952.55 | 49855.03 | 13 SPIKE |
| 3 | 992.66 | 9975.23 | 49895.09 | FND DISC CT 2005 |
| 4 | 1022.39 | 10057.96 | 50129.73 | 13 SPIKE |
| 5 | 959.25 | 10003.76 | 49637.57 | 13 SPIKE |
| 7 | 990.93 | 9794.69 | 49860.75 | 13 SPIKE |
| 8 | 990.18 | 9766.54 | 49648.08 | 13 SPIKE |



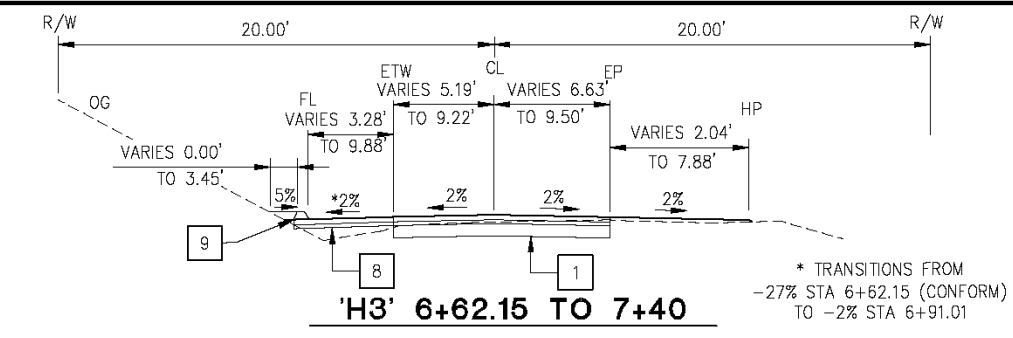
| 'H3' LINE | | | | |
|-----------|--------|--------|---------------------------------|-------------|
| NUMBER | LENGTH | RADIUS | LINE / CHORD DIRECTION & LENGTH | DELTA |
| L1 | 72.74 | | S 56° 11' 30" E | |
| C1 | 107.46 | 275.00 | S 67° 23' 11" E - 106.78 | 22° 23' 23" |
| L2 | 92.49 | | S 78° 34' 52" E | |
| C2 | 102.81 | 400.00 | S 85° 56' 39" E - 102.52 | 14° 43' 33" |
| L3 | 69.96 | | N 86° 41' 35" E | |
| C3 | 154.13 | 365.00 | N 74° 35' 46" E - 152.98 | 24° 11' 37" |
| L4 | 27.39 | | N 62° 29' 58" E | |
| C4 | 45.80 | 300.00 | N 58° 07' 33" E - 45.75 | 8° 44' 49" |
| L5 | 85.90 | | N 53° 45' 08" E | |

△ TRIANGLE DENOTES CONTROL POINT LOCATION
 HORIZONTAL DATUM
 BEARINGS SHOWN HEREON ARE BASED UPON FOUND MONUMENTS AS SHOWN ON RECORD OF SURVEY BOOK 25 PAGE 24 OFFICIAL RECORDS, EL DORADO COUNTY, STATE OF CALIFORNIA, WHICH BASIS IS TRUE NORTH.
 VERTICAL DATUM
 ELEVATIONS SHOWN HEREON ARE ASSUMED. CONTROL POINTS SHOWN FOR PROJECT CONTROL POINTS ARE TEMPORARY BENCH MARKS.

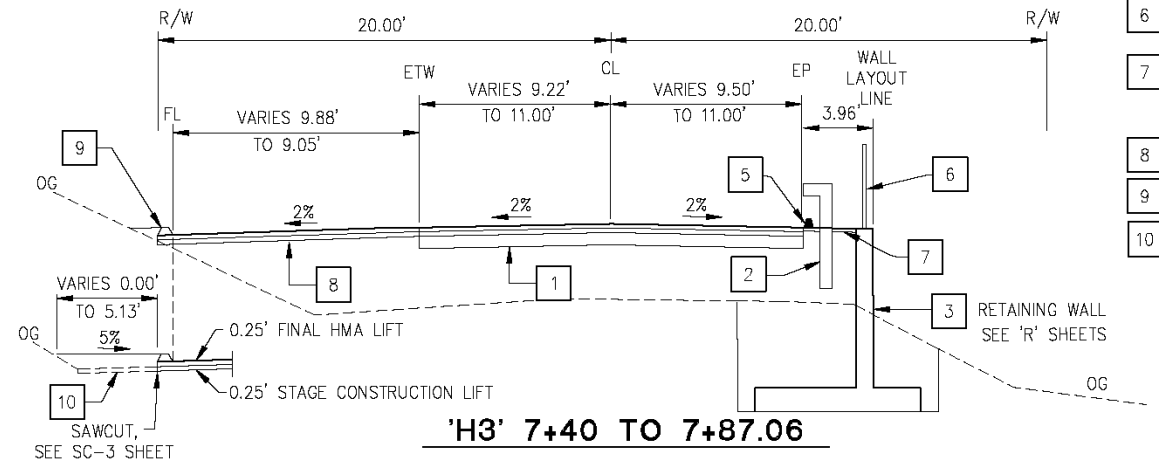
SURVEY AND CONTROL DIAGRAM
SCALE : AS NOTED

| | | | | | | |
|--|---|--|-----------------------------|---|--|---|
| | PREPARED UNDER THE SUPERVISION OF: JON G. MAN PROFESSIONAL LAND SURVEYOR DATE: 3-14-18 | DESIGNED: LM CHECKED: DA ROAD NUMBER: 2403 | DRAWN: RRR DATE: 3/14/18 | COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION | HAZEL VALLEY ROAD AT EID CANAL BRIDGE REPLACEMENT | SHEET CD-1 02 OF 41 P.D. No. 77125 |
| | FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 1" = 40' | | | | | |

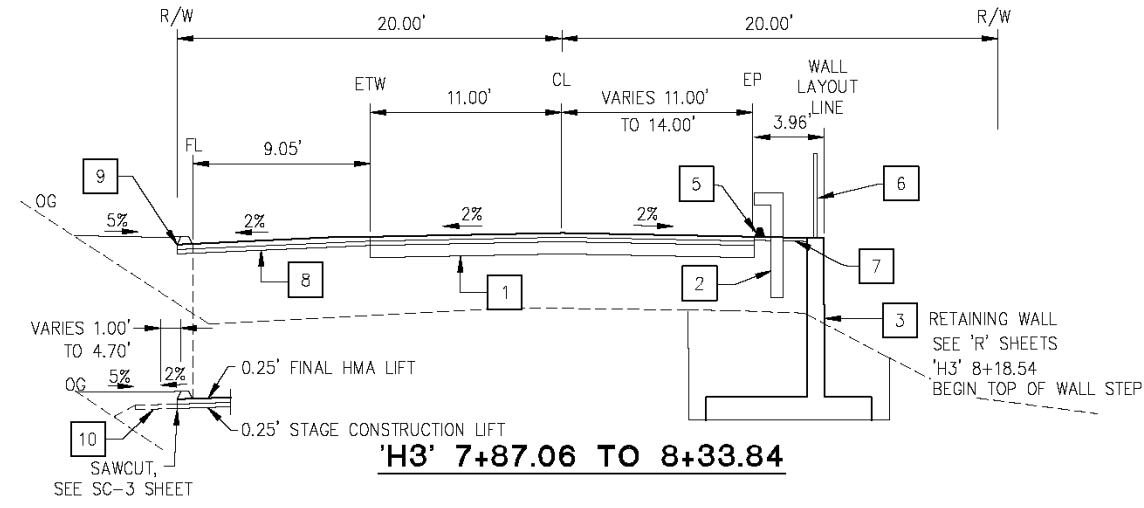
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 FOR REDUCED PLANS
 REVISION
 NUMBER DATE DESCRIPTION BY



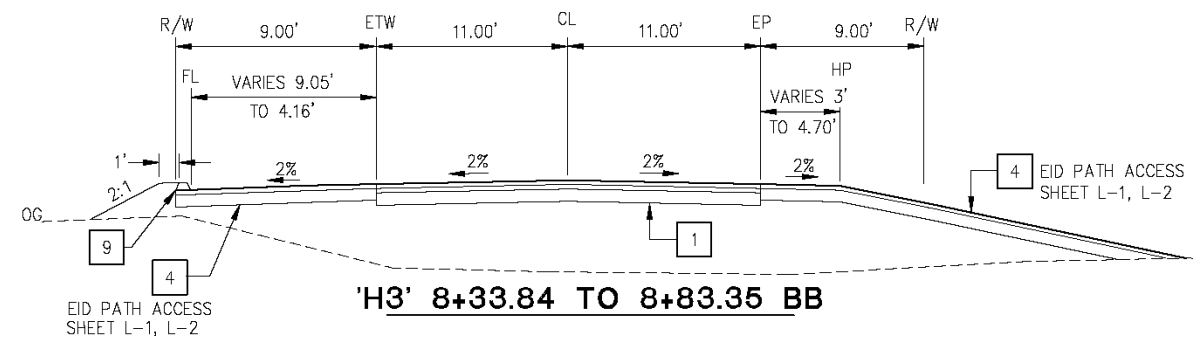
'H3' 6+62.15 TO 7+40



'H3' 7+40 TO 7+87.06



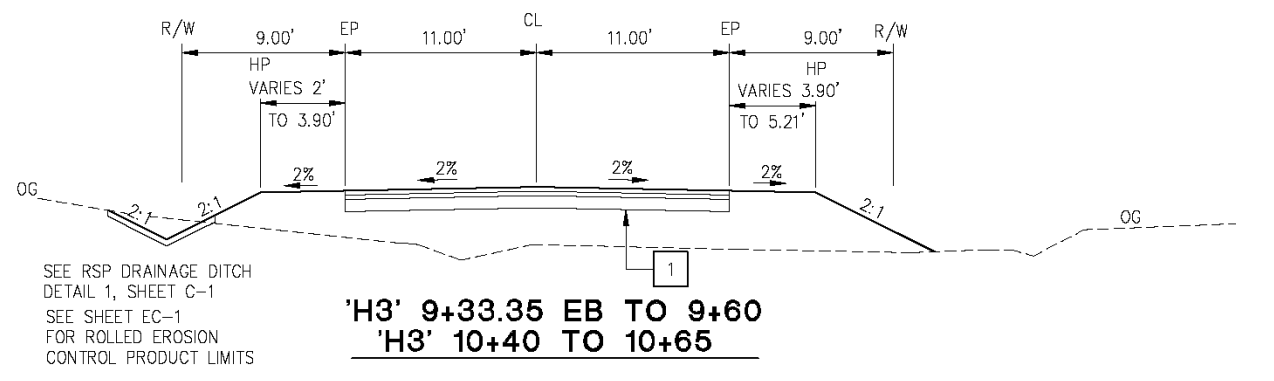
'H3' 7+87.06 TO 8+33.84



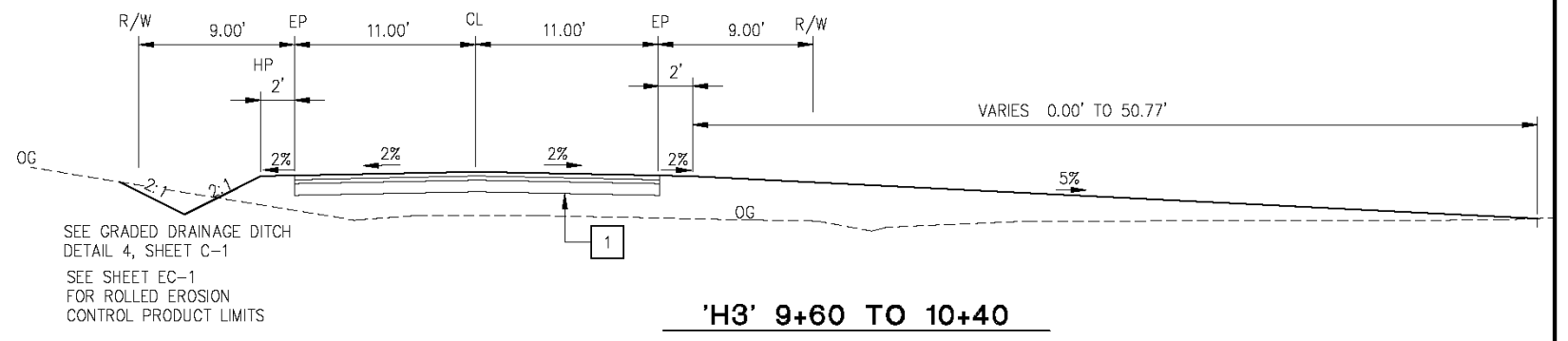
'H3' 8+33.84 TO 8+83.35 BB

- CONSTRUCTION NOTES:**
- 1 — 0.5' HMA (TYPE A)
0.7' AB (CLASS 2)
 - 2 — MBGR, STD A77N3, DETAIL C
 - 3 — TYPE 1 WALL, STD B3-1A
 - 4 — 0.25' HMA (TYPE A)
0.7' AB (CLASS 2)
 - 5 — HMA DIKE (TYPE F), STD A87B
 - 6 — CABLE RAILING PER STD B11-47
 - 7 — VEGETATION CONTROL PER STD A77N5 AND A77N6 (MINOR CONCRETE)
 - 8 — 0.50' HMA (TYPE A)
 - 9 — TYPE A HMA DIKE, STD A87B
 - 10 — 0.25' TEMPORARY HMA WIDENING, REMOVED UNDER STAGE 3 CONSTRUCTION

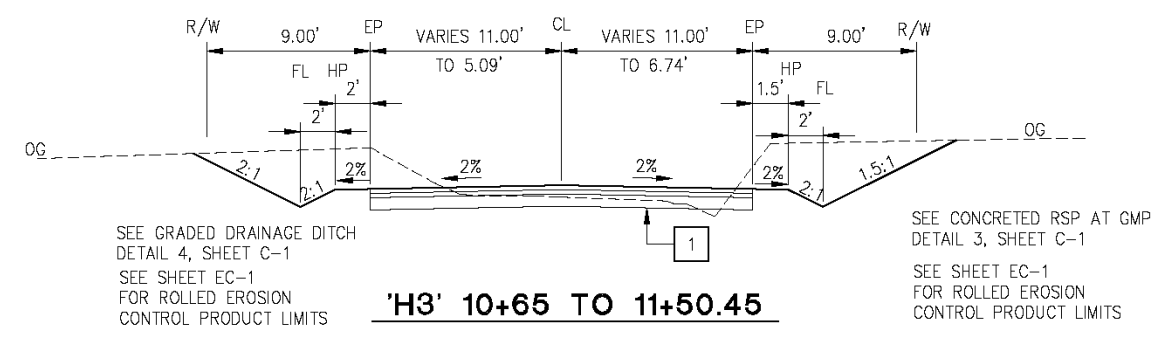
BRIDGE PLANS
'H3' 8+83.35 BB TO 9+33.35 EB



'H3' 9+33.35 EB TO 9+60
'H3' 10+40 TO 10+65

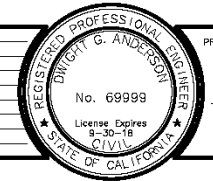


'H3' 9+60 TO 10+40



'H3' 10+65 TO 11+50.45

TYPICAL SECTIONS
SCALE : NONE



PREPARED UNDER THE SUPERVISION OF:
Dwight D. Anderson
 REGISTERED CIVIL ENGINEER
 License Expires 3-14-18
 DATE: 3/14/18

DESIGNED: DA
 DRAWN: RR
 CHECKED: CG
 DATE: 3/14/18
 ROAD NUMBER: 2403

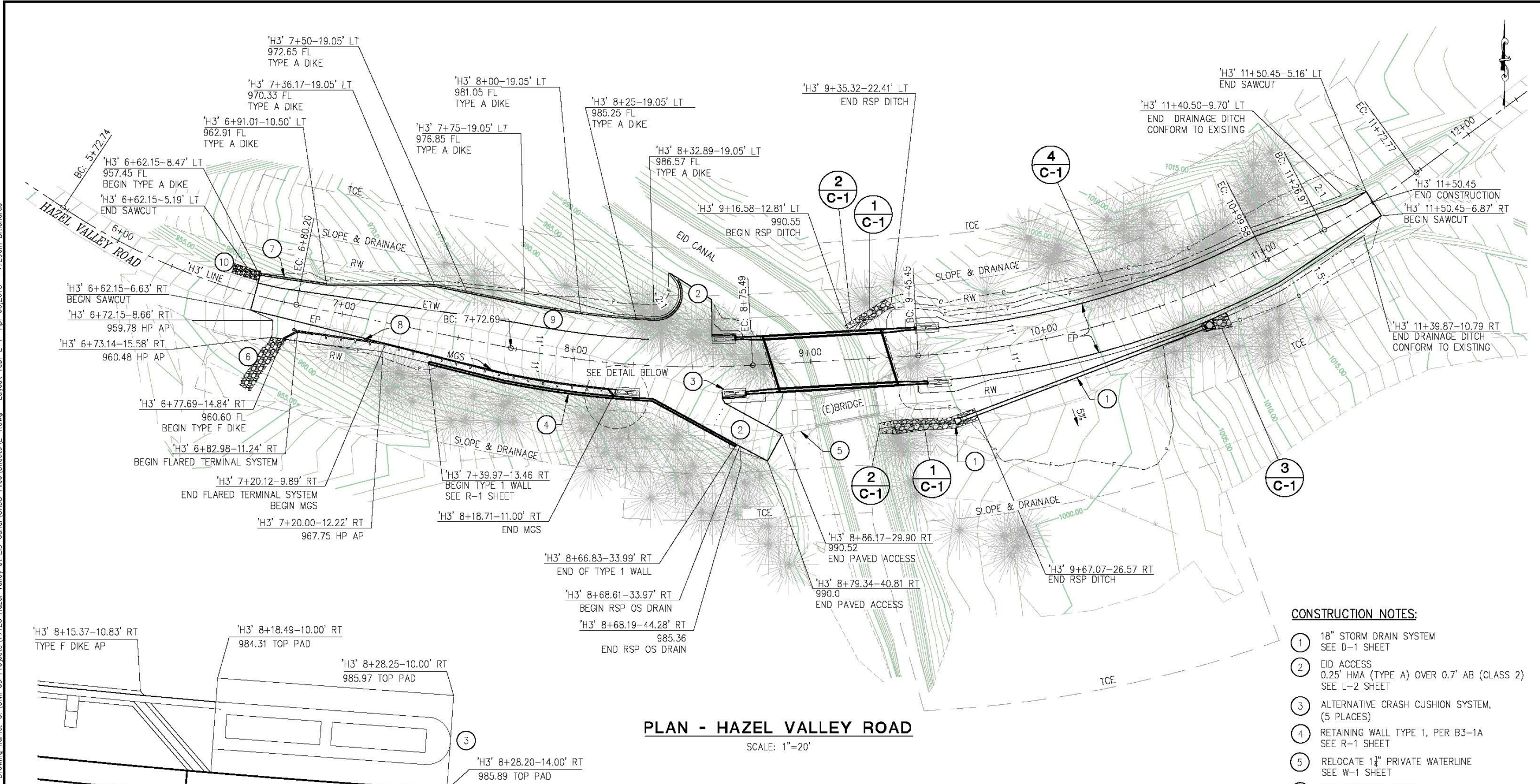


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

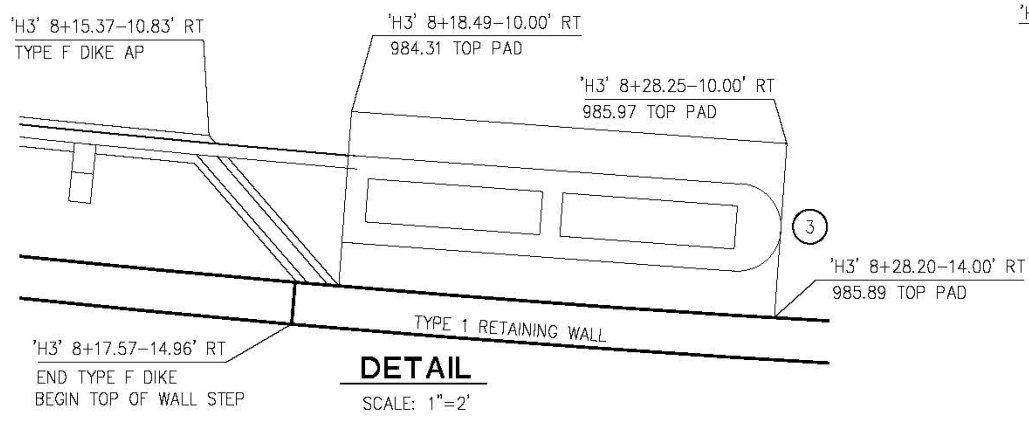
HAZEL VALLEY ROAD AT EID CANAL
BRIDGE REPLACEMENT

SHEET
X-1
0.3 OF 41
W.D. No. **77125**

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PLAN - HAZEL VALLEY ROAD
 SCALE: 1"=20'

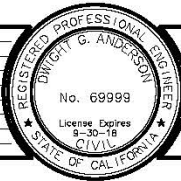


DETAIL
 SCALE: 1"=2'

- CONSTRUCTION NOTES:**
- ① 18" STORM DRAIN SYSTEM SEE D-1 SHEET
 - ② EID ACCESS 0.25' HMA (TYPE A) OVER 0.7' AB (CLASS 2) SEE L-2 SHEET
 - ③ ALTERNATIVE CRASH CUSHION SYSTEM, (5 PLACES)
 - ④ RETAINING WALL TYPE 1, PER B3-1A SEE R-1 SHEET
 - ⑤ RELOCATE 1 1/2" PRIVATE WATERLINE SEE W-1 SHEET
 - ⑥ RSP OVERSIDE DRAIN SEE D-2 SHEET
 - ⑦ TYPE A HMA DIKE
 - ⑧ TYPE F HMA DIKE
 - ⑨ 0.50' HMA (TYPE A)
 - ⑩ RSP, SEE D-2 SHEET

LAYOUT
 SCALE : AS NOTED

| REVISION | NUMBER | DATE | DESCRIPTION | BY |
|----------|--------|------|-------------|----|
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PREPARED UNDER THE SUPERVISION OF:
Dwight G. Anderson
 REGISTERED CIVIL ENGINEER
 License Expires 8-30-16
 DATE: 3-14-17

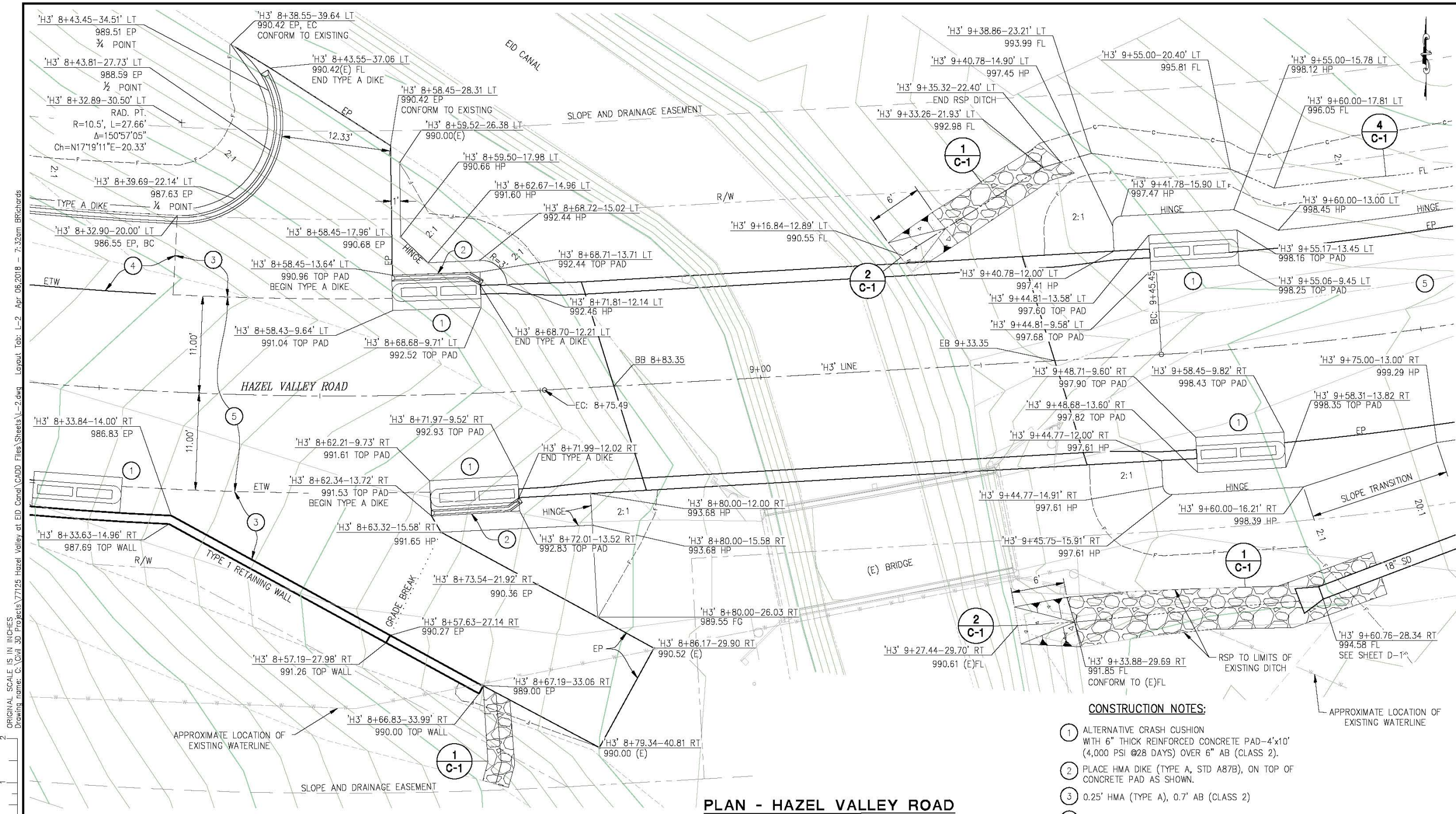
DESIGNED: DA
 DRAWN: RR
 CHECKED: CG
 DATE: 3/14/16
 ROAD NUMBER: 2403



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HAZEL VALLEY ROAD AT EID CANAL
BRIDGE REPLACEMENT

SHEET
L-1
 04 OF 41
 P.O. No. **77125**



PLAN - HAZEL VALLEY ROAD
SCALE: 1"=5'

- CONSTRUCTION NOTES:**
- 1 ALTERNATIVE CRASH CUSHION WITH 6" THICK REINFORCED CONCRETE PAD-4'x10' (4,000 PSI @28 DAYS) OVER 6" AB (CLASS 2).
 - 2 PLACE HMA DIKE (TYPE A, STD A87B), ON TOP OF CONCRETE PAD AS SHOWN.
 - 3 0.25' HMA (TYPE A), 0.7' AB (CLASS 2)
 - 4 0.50' HMA (TYPE A)
 - 5 0.50' HMA (TYPE A), 0.7' AB (CLASS 2)
- APPROXIMATE LOCATION OF EXISTING WATERLINE

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 FOR REDUCED PLANS
 REVISION
 NUMBER DATE DESCRIPTION BY



PREPARED UNDER THE SUPERVISION OF:
Dwight G. Anderson
 REGISTERED CIVIL ENGINEER
 License Expires 3-14-18
 DATE: 3/14/18

DESIGNED: DA
 DRAWN: RR
 CHECKED: CG
 DATE: 3/14/18
 ROAD NUMBER: 2403



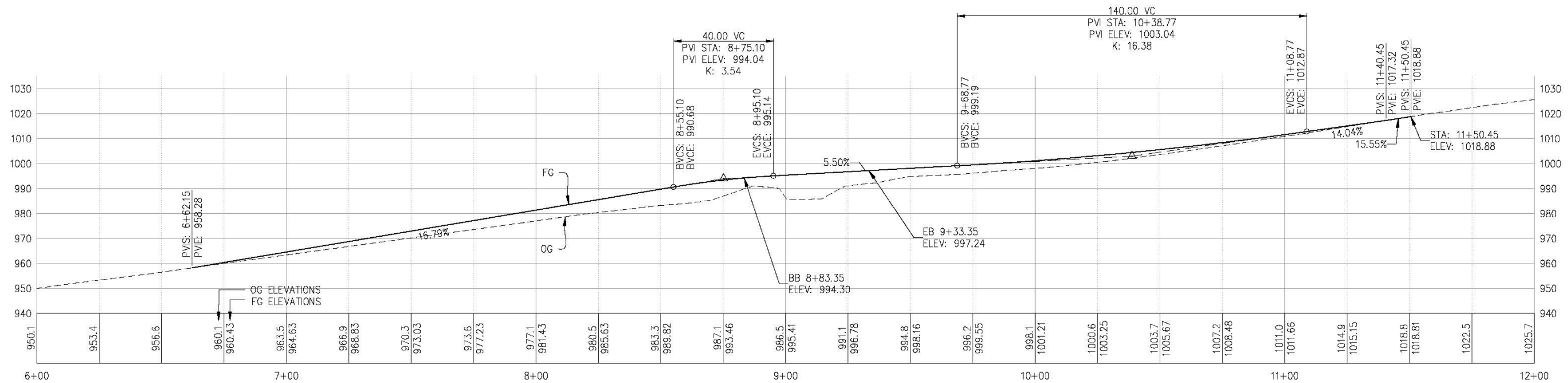
COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HAZEL VALLEY ROAD AT EID CANAL
BRIDGE REPLACEMENT

SHEET
L-2
 05 OF 41
 P.O. No. **77125**

LAYOUT
SCALE : AS NOTED

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PROFILE - HAZEL VALLEY ROAD

SCALE: 1"=20' H,V

FOR REDUCED PLANS
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| REVISION | NUMBER | DATE | DESCRIPTION | BY |
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PREPARED UNDER THE SUPERVISION OF:
Dwight G. Anderson
 REGISTERED CIVIL ENGINEER
 DATE: 3-14-18

DESIGNED: DA
 DRAWN: RR
 CHECKED: CG
 DATE: 3/14/18
 ROAD NUMBER: 2403



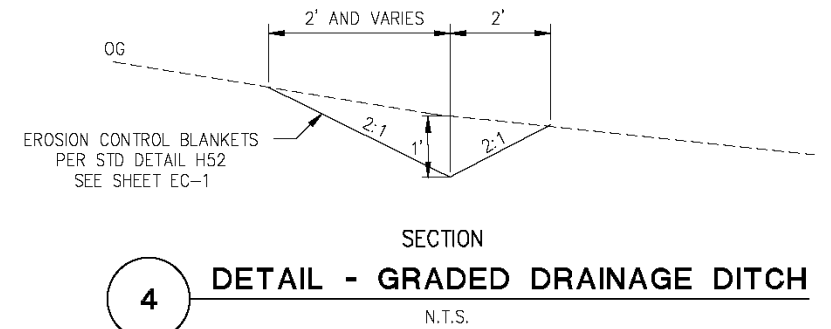
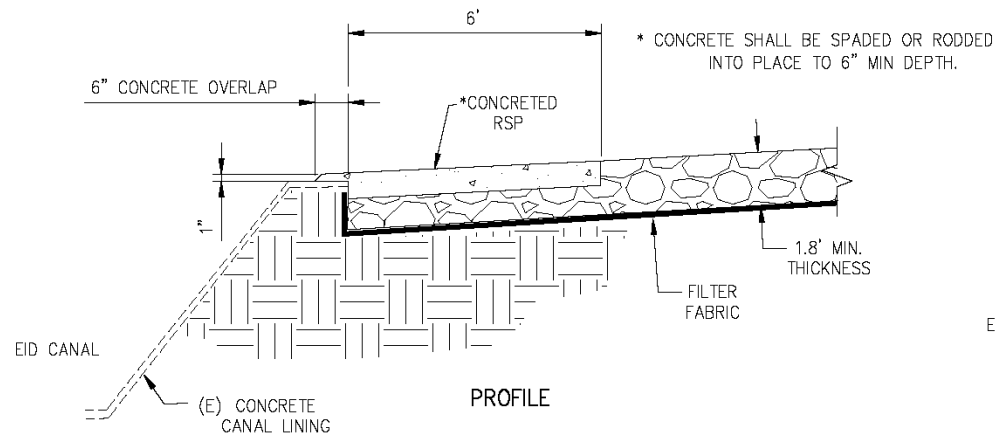
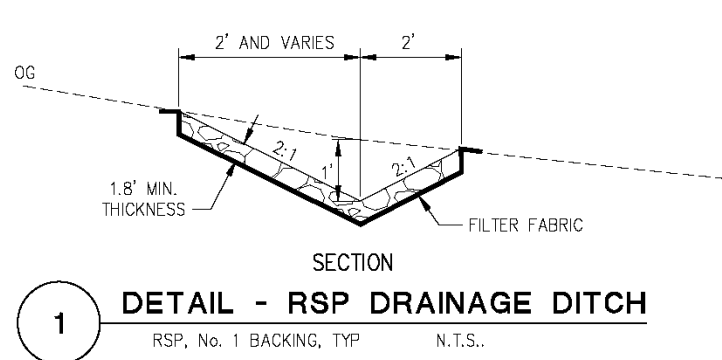
COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

HAZEL VALLEY ROAD AT EID CANAL
 BRIDGE REPLACEMENT

PROFILE
 SCALE : AS NOTED

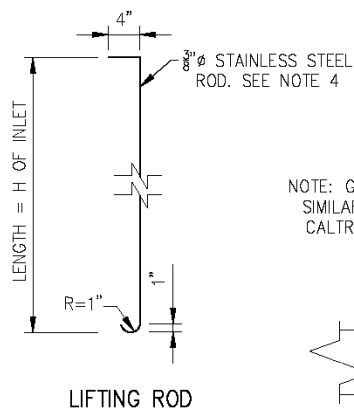
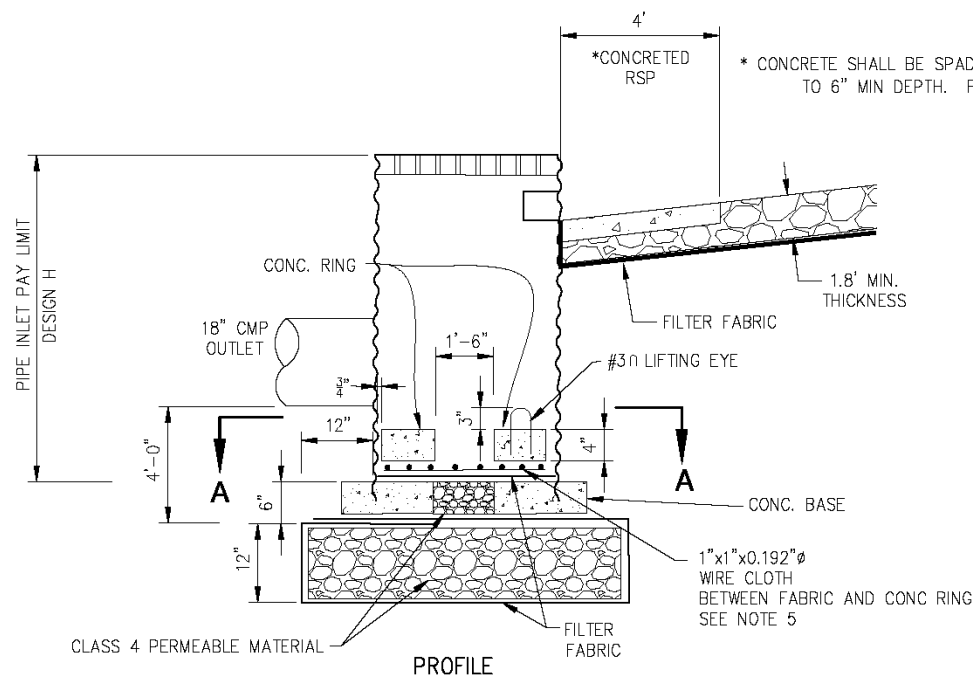
SHEET
P-1
 06 OF 41
 W.D. No. **77125**

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 REVISION
 NUMBER DATE DESCRIPTION BY

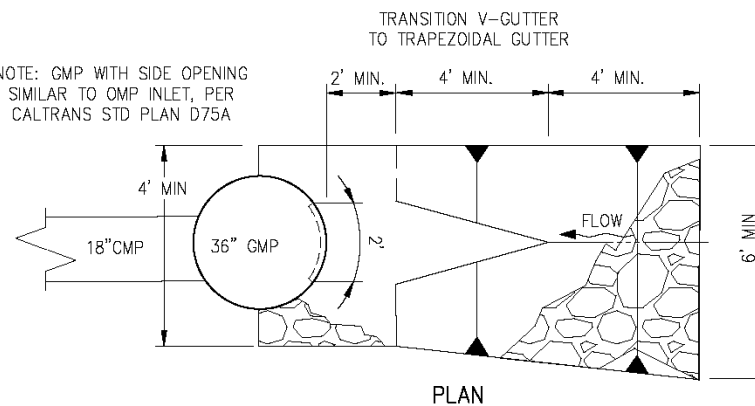


2 DETAIL - CONCRETED RSP
RSP, No. 1 BACKING, TYP N.T.S.

4 DETAIL - GRADED DRAINAGE DITCH
N.T.S.



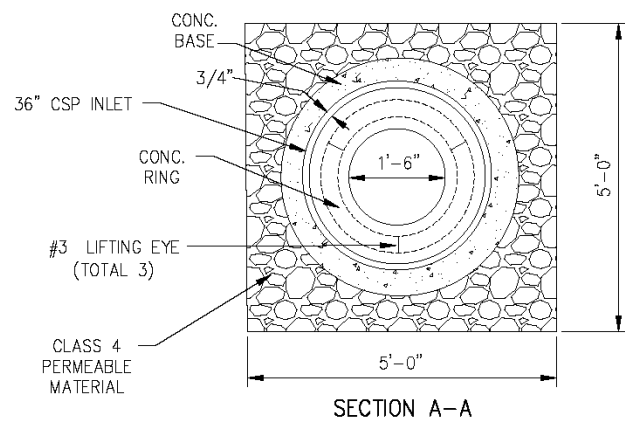
NOTE: GMP WITH SIDE OPENING SIMILAR TO OMP INLET, PER CALTRANS STD PLAN D75A



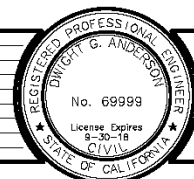
NOTES:

- FOR DETAILS NOT SHOWN, SEE STD PLAN D75A AND D77B.
- MANUFACTURER OF PRECAST PIPE INLETS AND TRAP SHALL PROVIDE SHOP DRAWINGS AND CALCULATIONS OF ALL PRECAST ELEMENTS FOR REVIEW AND APPROVAL BY THE ENGINEER.
- SEE DRAINAGE PROFILE FOR FLOWLINE ELEVATION, INLET TYPE, "H", AND GRATE STATION, OFFSET AND ELEVATION.
- LIFTING WIRE AND CLOTH SHALL BE TYPE 316 OR 304 STAINLESS STEEL.
- WIRE CLOTH MUST BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
- SEE PIPE INLETS LADDER AND TRASH RACK DETAILS, STD PLAN D75C.

3 DETAIL - CONCRETED RSP AT GMP
RSP, No. 1 BACKING N.T.S.



CONSTRUCTION DETAILS
SCALE : AS NOTED



PREPARED UNDER THE SUPERVISION OF:
Dwight G. Anderson
REGISTERED CIVIL ENGINEER
3-14-18
DATE:

DESIGNED: DA DRAWN: RR
CHECKED: CG DATE: 3/14/18
ROAD NUMBER: 2403

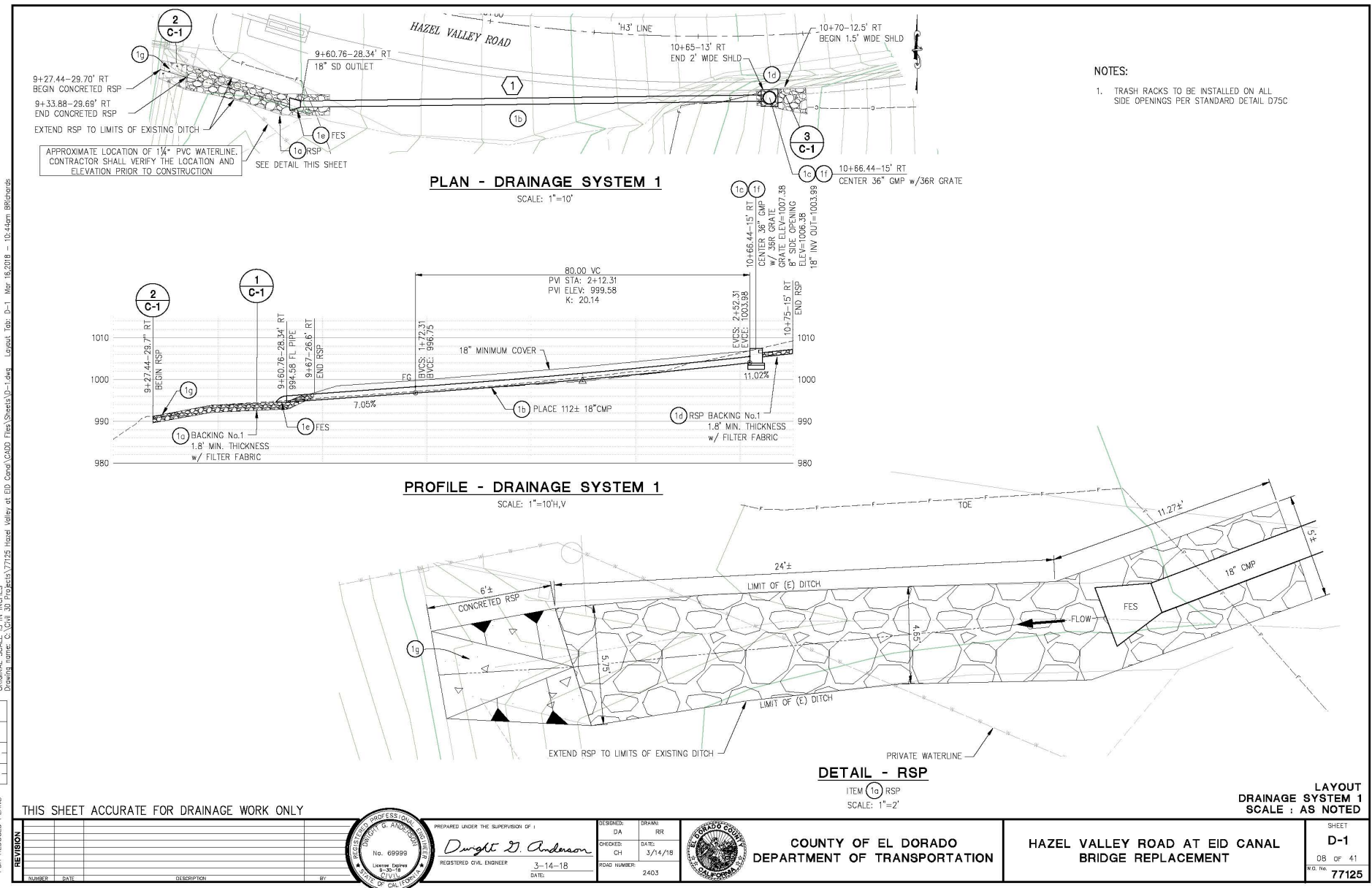


COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HAZEL VALLEY ROAD AT EID CANAL
BRIDGE REPLACEMENT

SHEET
C-1
07 OF 41
W.D. No. **77125**

ORIGINAL SCALE IS IN INCHES
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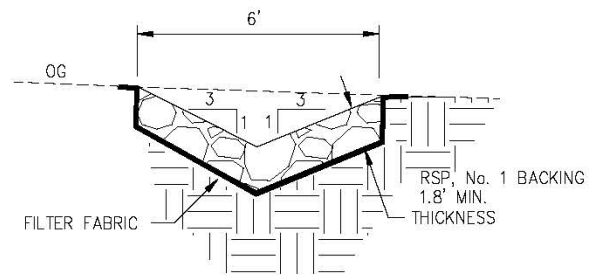


NOTES:
1. TRASH RACKS TO BE INSTALLED ON ALL SIDE OPENINGS PER STANDARD DETAIL D75C

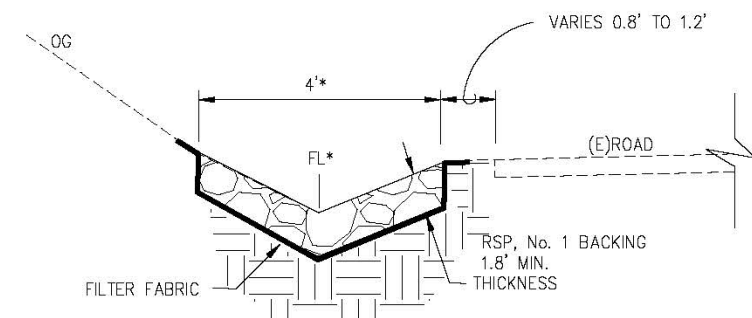
THIS SHEET ACCURATE FOR DRAINAGE WORK ONLY

| | | | | | |
|--|--|---|---|--|---|
| REVISION NUMBER DATE DESCRIPTION BY | PREPARED UNDER THE SUPERVISION OF: Dwight D. Anderson REGISTERED CIVIL ENGINEER 3-14-18 | DESIGNED: DA RR CHECKED: CH DATE: 3/14/18 ROAD NUMBER: 2403 | COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION | HAZEL VALLEY ROAD AT EID CANAL BRIDGE REPLACEMENT | LAYOUT DRAINAGE SYSTEM 1 SCALE : AS NOTED SHEET D-1 OF 41 77125 |
|--|--|---|---|--|---|

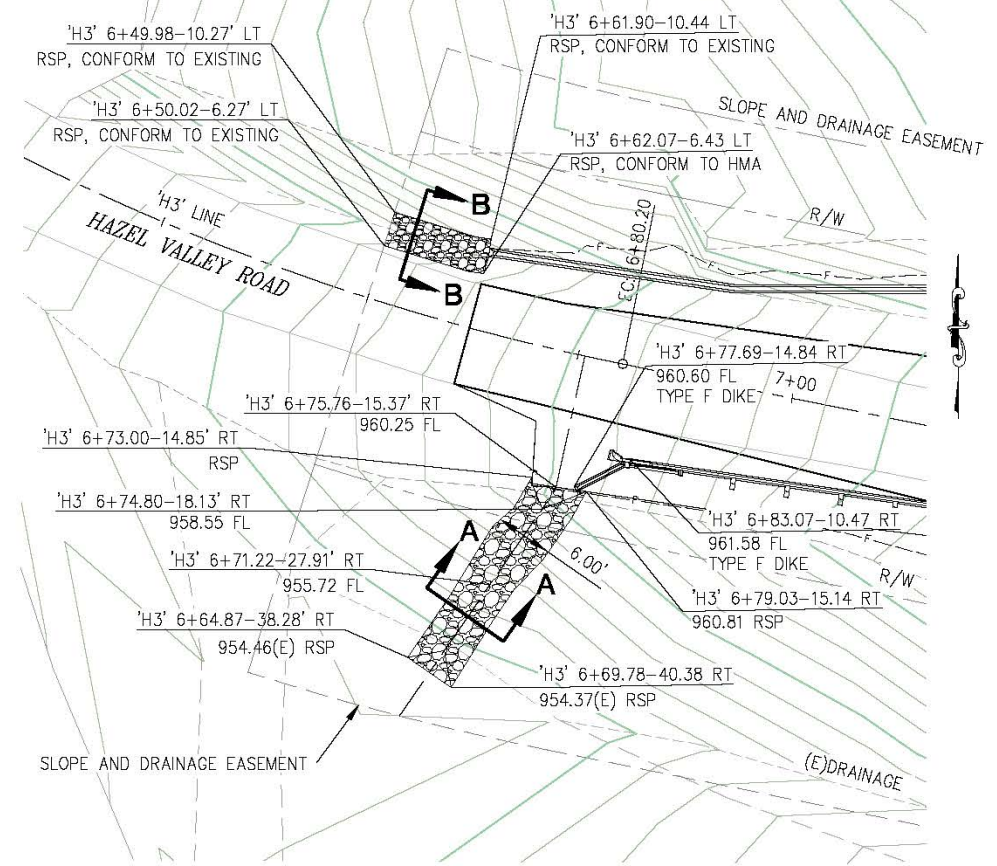
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 FOR REDUCED PLANS
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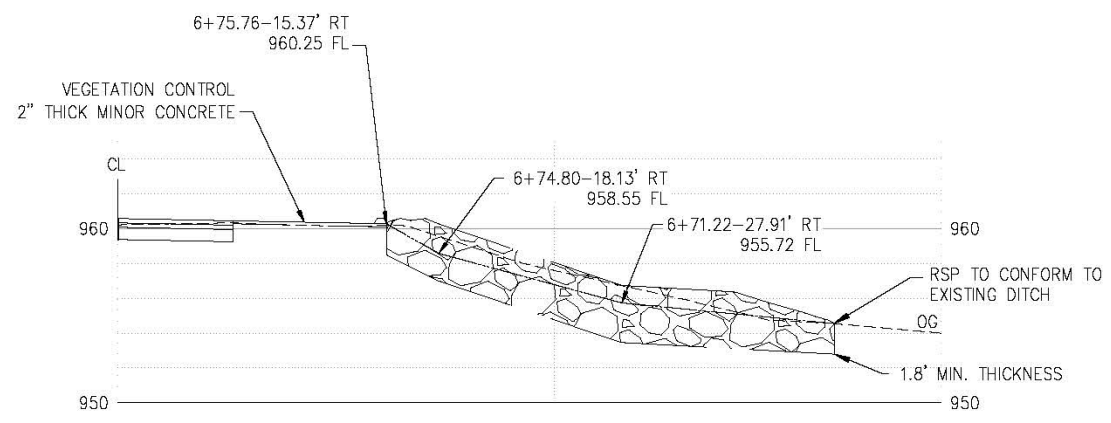
SECTION A-A
N.T.S.



SECTION B-B
N.T.S.



PLAN - OVERSIDE DRAIN
RSP OVERSIDE DRAIN SCALE: 1"=10'



PROFILE - OVERSIDE DRAIN
RSP, No. 1 BACKING SCALE: 1"=5'H,V

THIS SHEET ACCURATE FOR DRAINAGE WORK ONLY

LAYOUT
DRAINAGE SYSTEM 2
SCALE : AS NOTED

| REVISION | NUMBER | DATE | DESCRIPTION | BY |
|----------|--------|------|-------------|----|
| | | | | |
| | | | | |
| | | | | |



PREPARED UNDER THE SUPERVISION OF:
Dwight G. Anderson
 REGISTERED CIVIL ENGINEER
 License Expires 3-14-18
 DATE: 3-14-18

DESIGNED: DA
 DRAWN: RR
 CHECKED: CH
 DATE: 3/14/18
 ROAD NUMBER: 2403



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HAZEL VALLEY ROAD AT EID CANAL
BRIDGE REPLACEMENT

SHEET
D-2
09 OF 41
W.D. No. **77125**

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 0 1 2

| MISC ROCK SLOPE PROTECTION | | | |
|--|------------|---------------|------------------------------|
| DESCRIPTION/STATION | RSP (No.1) | FILTER FABRIC | CONCRETE |
| OVERSIDE DRAIN 6+50.02-6.27' LT TO 6+62.07-6.43' LT | 2.9 CY | 12.5 SY | |
| OVERSIDE DRAIN 6+75.76-15.37' RT TO 6+67.33-39.32' RT | 9.6 CY | 34.4 SY | |
| OVERSIDE DRAIN 8+68.61-33.97' RT TO 8+68.19-44.28' RT | 2.1 CY | 11.5 SY | |
| DRAINAGE DITCH 9+16.58-12.81' LT TO 9+35.32-22.41' LT | 6.0 CY | 9 SY | 6.5' CONCRETED RSP 0.6 CY |



DRAINAGE SYSTEM 1

| PLAN SHEET NO. | SYSTEM NO. | DRAINAGE UNIT | 36" GMP | TYPE 36R GRATE | 18" CMP | 18" METAL FES | RSP (No.1) | RSP FABRIC | RSP CONCRETE | CALTRANS STANDARD PLAN OR DETAIL REFERENCES | SLOPE | STATION | DRAINAGE UNIT | SYSTEM NO. | PLAN SHEET NO. | | | |
|----------------|------------|---------------|---------|----------------|---------|---------------|------------|------------|--------------|---|-------|---------|-------------------------|------------------------|----------------|---|-----|--|
| D-1 | 1 | a | EA | EA | LF | EA | CY | SY | CY | | | | | | | | | |
| | | | a | | | | 10.6 | 28.4 | | | | | | a | | | | |
| | | | b | | 112' | | | | | | | | *V.C. | | b | | | |
| | | | c | 1 | | | | | | 1 | D75A | | 'H3' 10+66.44-15.00' RT | | c | 1 | D-1 | |
| | | | d | | | | | 3.4 | 8 | | | | | | d | | | |
| | | | e | | | | 1 | | | | | | | 'H3' 9+60.76-28.34' RT | | e | | |
| | | | f | 1 | | | | | | | | D77B | | | | f | | |
| g | | | | | | | | 1 | | | | | | | | | | |
| BID QUANTITY | | | 1 | 1 | 112' | 1 | 14 | 36.4 | 2 | | | | | | | | | |

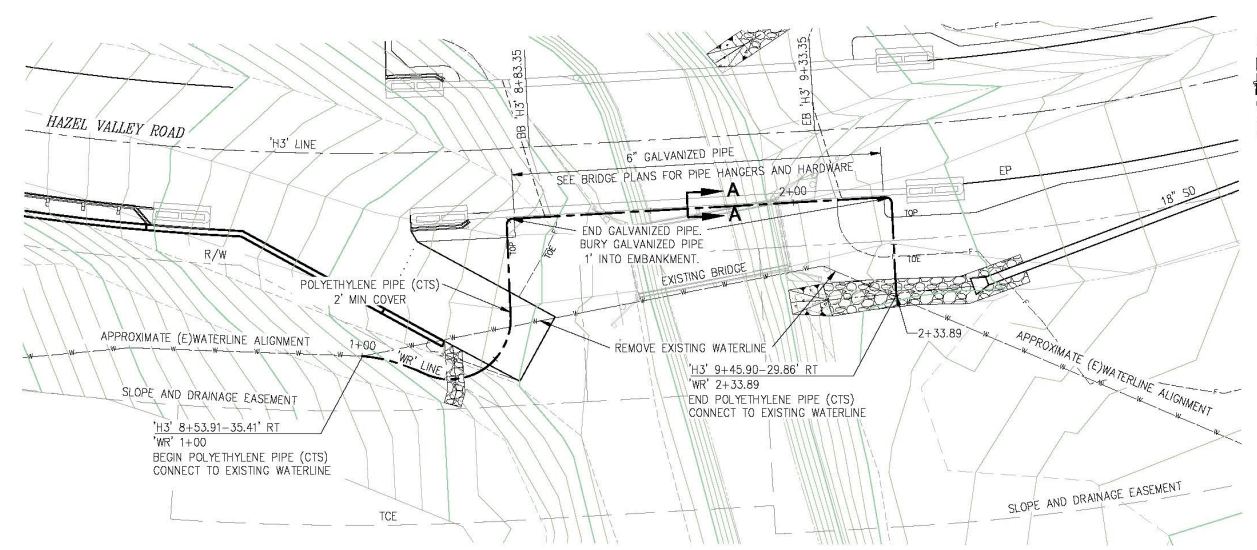
* VERTICAL CURVE AND TANGENTS

THIS SHEET ACCURATE FOR DRAINAGE WORK ONLY

DRAINAGE QUANTITIES
SCALE : NONE

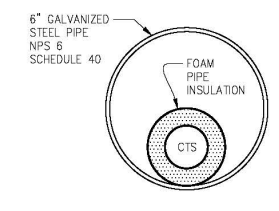
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| REVISION NUMBER DATE DESCRIPTION BY |  | PREPARED UNDER THE SUPERVISION OF : <i>Dwight G. Anderson</i> REGISTERED CIVIL ENGINEER 3-14-18 DATE: | DESIGNED: DA DRAWN: RR CHECKED: CG DATE: 3/14/18 ROAD NUMBER: 2403 |  | COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION | HAZEL VALLEY ROAD AT EID CANAL BRIDGE REPLACEMENT | SHEET D-3 10 OF 41 W.C. No. 77125 |
| | | | | | | | |

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\GIS\30 Projects\77125 Hazel Valley at EID Canal\CADD Files\Sheet\W-1.dwg Layout: Top: W-1 Mar 16, 2018 - 8:51am Brlinda@elc.com
 FOR REDUCED PLANS
 REVISION
 NUMBER DATE DESCRIPTION BY



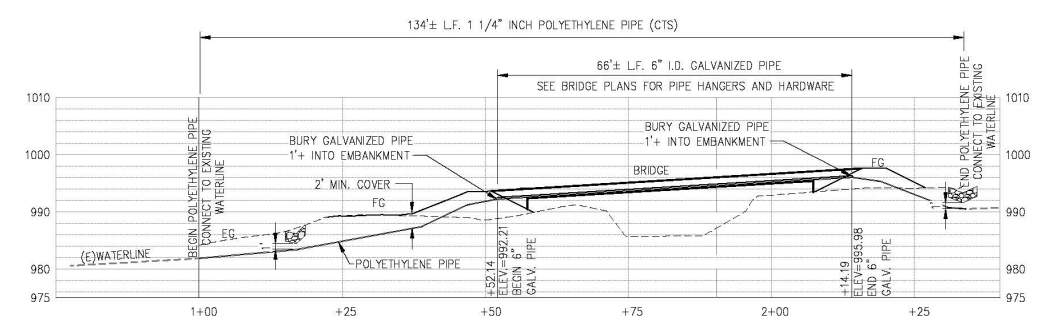
PLAN - WATERLINE RELOCATION
SCALE: 1"=10' H

THE 1 1/4" PVC WATERLINE, SHOWN ON THESE PLANS, IS THE APPROXIMATE LOCATION. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION PRIOR TO CONSTRUCTION.



DETAIL A-A
N.T.S.

POLYETHYLENE PIPE (CTS) WATERLINE TO BE INSULATED WITH FOAM PIPE INSULATION OR EQUAL. INSULATION TO BE SECURED IN PLACE WITH PLASTIC TIES AND EXTENDED 2'± BEYOND THE 6" GALVANIZED PIPE EMBANKMENTS. (APPROX. 70 L.F.)



PROFILE - WATERLINE RELOCATION
SCALE: 1"=10' H,V

THIS SHEET ACCURATE FOR UTILITY WORK ONLY

WATERLINE RELOCATION
SCALE : AS NOTED



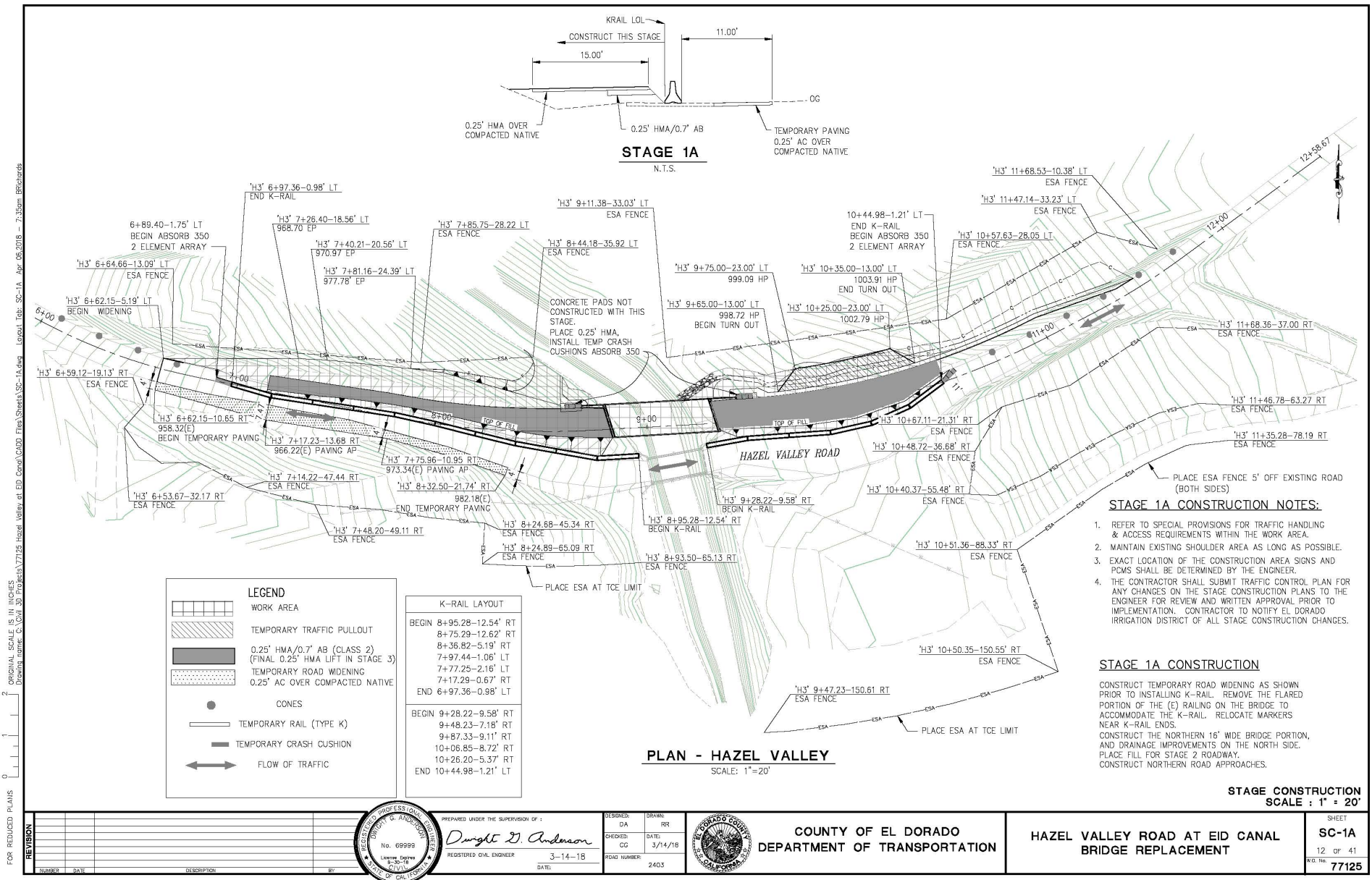
PREPARED UNDER THE SUPERVISION OF:
Dwayne D. Anderson
REGISTERED CIVIL ENGINEER 3-14-18



COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION

HAZEL VALLEY ROAD AT EID CANAL
BRIDGE REPLACEMENT

SHEET
W-1
11 OF 41
R.O. No. **77125**



ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS
 Drawing name: C:\Users\3377125\OneDrive\Projects\77125 Hazel Valley at Eid Canal\CAD\Drawings\Sheet\SC-1A.dwg
 Layout file: SC-1A Apr 06, 2018 - 7:35am Bichards

| REVISION | NUMBER | DATE | DESCRIPTION | BY |
|----------|--------|------|-------------|----|
| | | | | |
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PREPARED UNDER THE SUPERVISION OF:

 Dwight D. Anderson
 REGISTERED CIVIL ENGINEER
 No. 69999
 3-14-18

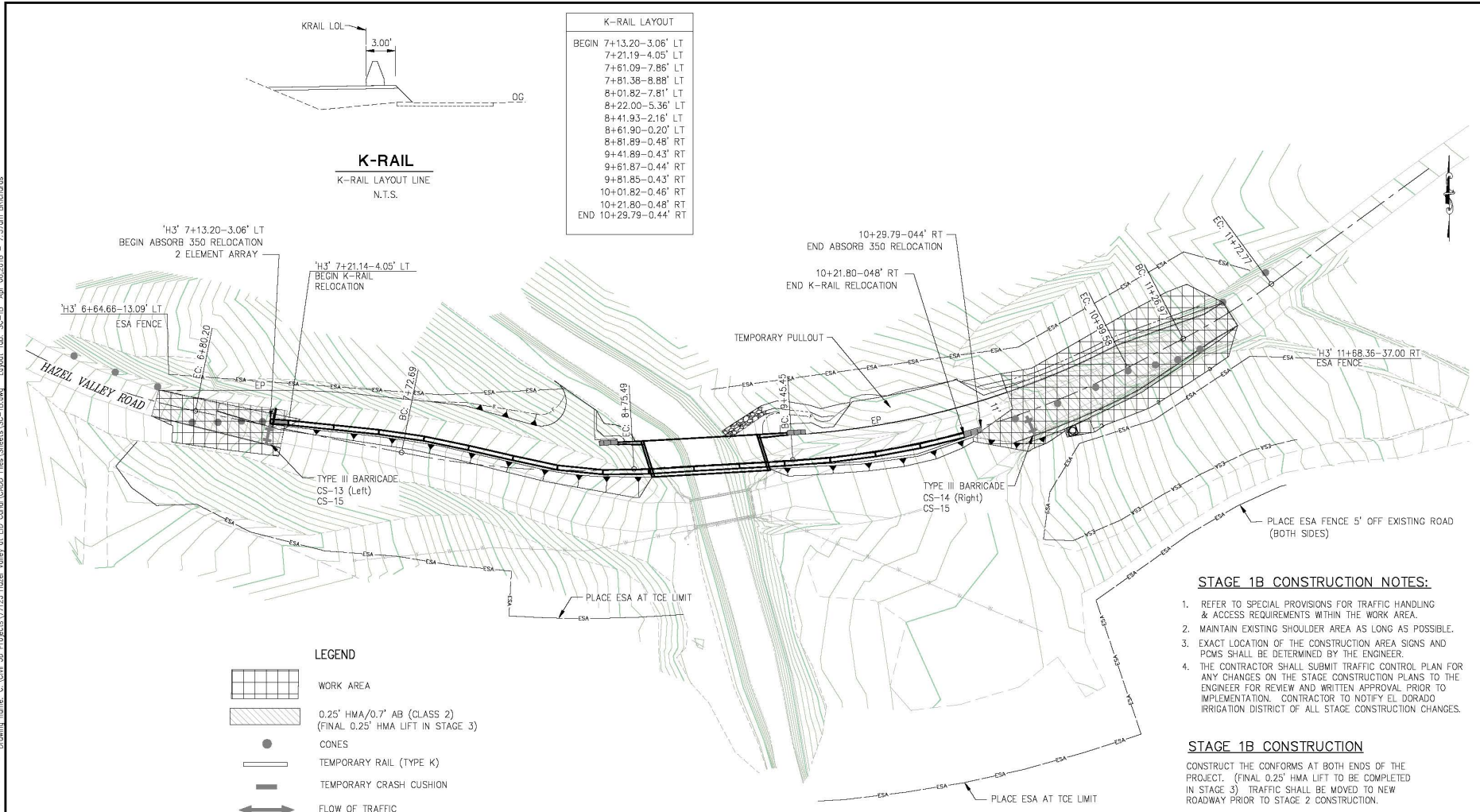
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 DRAWN: RRR
 CHECKED: CG
 DATE: 3/14/18
 ROAD NUMBER: 2403

COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

HAZEL VALLEY ROAD AT EID CANAL
 BRIDGE REPLACEMENT

STAGE CONSTRUCTION
 SCALE: 1" = 20'
 SHEET
 SC-1A
 12 OF 41
 77125

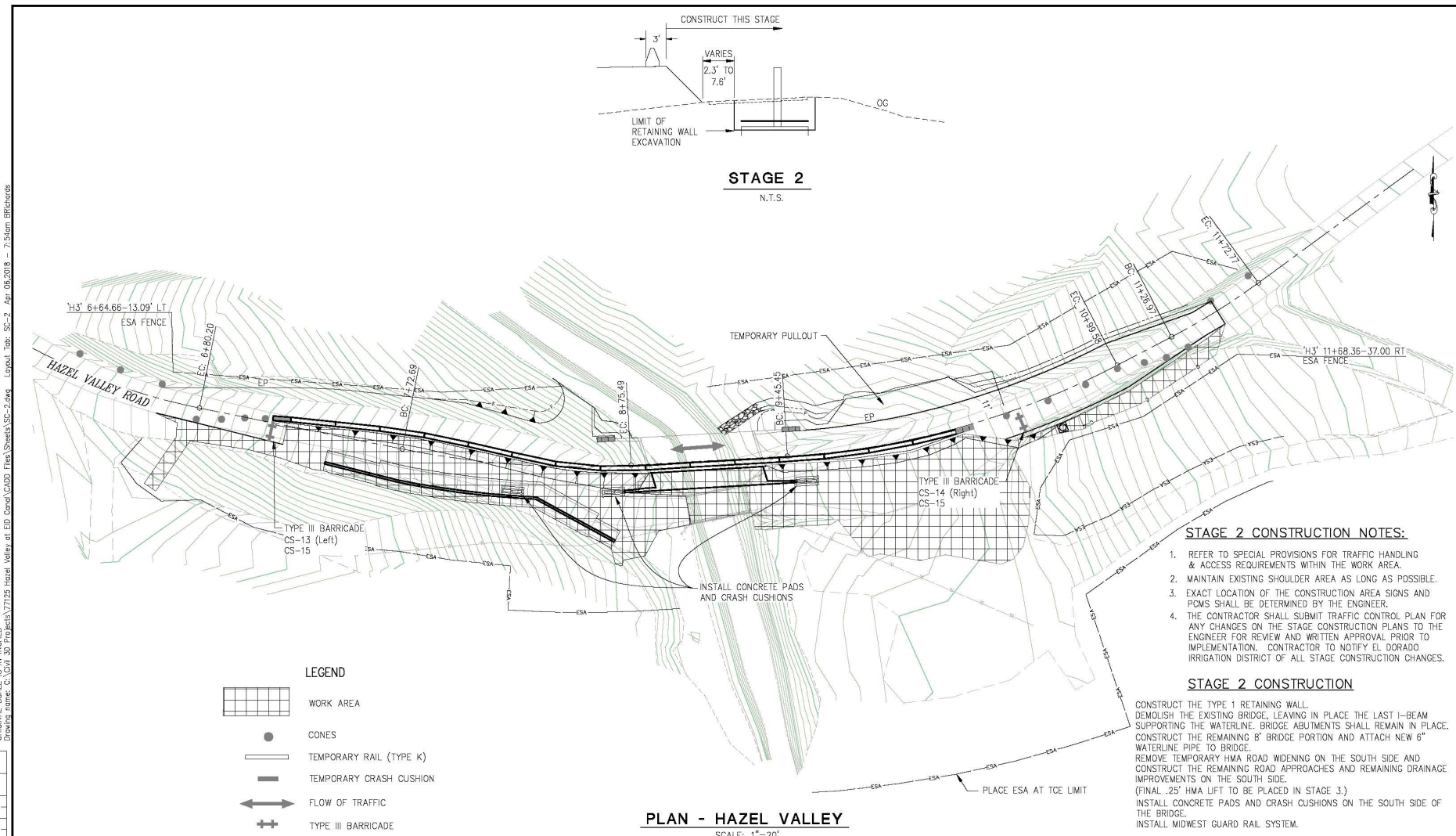
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PLAN - HAZEL VALLEY
SCALE: 1"=20'

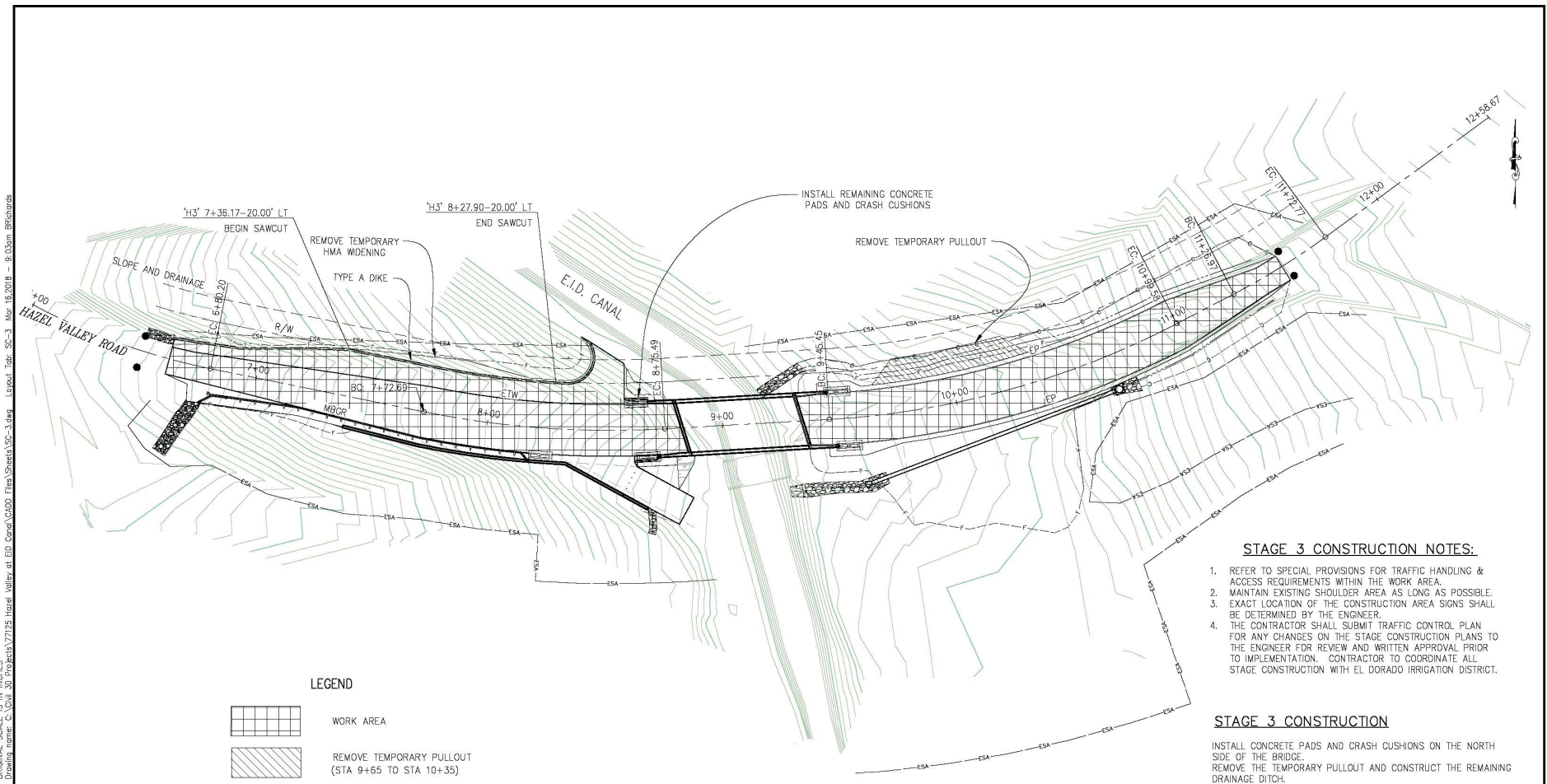
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| REVISION NUMBER DATE DESCRIPTION BY | PREPARED UNDER THE SUPERVISION OF: Dwight D. Anderson REGISTERED CIVIL ENGINEER 3-14-18 | DESIGNED: DA RRR CHECKED: CG DATE: 3/14/18 ROAD NUMBER: 2403 | COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION | HAZEL VALLEY ROAD AT EID CANAL BRIDGE REPLACEMENT | SHEET SC-1B 13 OF 41 77125 |
| | STAGE CONSTRUCTION SCALE: 1" = 20' | | | | |

ORIGINAL SCALE IS IN INCHES
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




| <p style="writing-mode: vertical-rl; transform: rotate(180deg);">FOR REDUCED PLANS</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">REVISION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>NUMBER</th><th>DATE</th><th>DESCRIPTION</th><th>BY</th></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table> | NUMBER | DATE | DESCRIPTION | BY | | | | | | | | | | | | |  <p>PREPARED UNDER THE SUPERVISION OF: <i>Dwight J. Anderson</i> REGISTERED CIVIL ENGINEER No. 69999 3-14-18</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>DESIGNED: DA</td><td>DRAWN: RRR</td></tr> <tr><td>CHECKED: CG</td><td>DATE: 3/14/18</td></tr> <tr><td>ROAD NUMBER: 2403</td><td></td></tr> </table> | DESIGNED: DA | DRAWN: RRR | CHECKED: CG | DATE: 3/14/18 | ROAD NUMBER: 2403 | |  <p>COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION</p> | <p>HAZEL VALLEY ROAD AT EID CANAL BRIDGE REPLACEMENT</p> | <p>STAGE CONSTRUCTION SCALE: 1" = 20'</p> <p>SHEET SC-2 14 OF 41 S.D. No. 77125</p> |
|---|---------------|-------------|-------------|----|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--------------|------------|-------------|---------------|-------------------|--|--|---|--|
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| ROAD NUMBER: 2403 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS
 Drawing name: C:\GIS\Projects\77125 Hazel Valley at EID Canal\CADD Files\Sheet\SC-3.dwg
 Layout: 18-03-18
 Date: 18-03-18
 User: B. Richards



LEGEND

| | |
|--|---|
|  | WORK AREA |
|  | REMOVE TEMPORARY PULLOUT (STA 9+65 TO STA 10+35) |
|  | CONES |

PLAN - HAZEL VALLEY
SCALE: 1"=20'



STAGE 3 CONSTRUCTION NOTES:

1. REFER TO SPECIAL PROVISIONS FOR TRAFFIC HANDLING & ACCESS REQUIREMENTS WITHIN THE WORK AREA.
2. MAINTAIN EXISTING SHOULDER AREA AS LONG AS POSSIBLE.
3. EXACT LOCATION OF THE CONSTRUCTION AREA SIGNS SHALL BE DETERMINED BY THE ENGINEER.
4. THE CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLAN FOR ANY CHANGES ON THE STAGE CONSTRUCTION PLANS TO THE ENGINEER FOR REVIEW AND WRITTEN APPROVAL PRIOR TO IMPLEMENTATION. CONTRACTOR TO COORDINATE ALL STAGE CONSTRUCTION WITH EL DORADO IRRIGATION DISTRICT.

STAGE 3 CONSTRUCTION

INSTALL CONCRETE PADS AND CRASH CUSHIONS ON THE NORTH SIDE OF THE BRIDGE.
 REMOVE THE TEMPORARY PULLOUT AND CONSTRUCT THE REMAINING DRAINAGE DITCH.
 CONSTRUCT THE REMAINING PRIVATE WATERLINE.
 REMOVE FINAL I-BEAM BRIDGE PORTION AND EXISTING WATERLINE. BRIDGE ABUTMENTS SHALL REMAIN IN PLACE.
 SAWCUT TEMPORARY HMA WIDENING ALONG RIGHT OF WAY LINE AS SHOWN AND REMOVE HMA PAVING.
 PLACE FINAL 0.25' HMA LIFT UNDER REVERSE TRAFFIC CONTROL. PLACE TYPE A DIKE, SEE SHEET L-1. PLACE FILL AND GRADE AREA BEHIND DIKE AS SHOWN ON SHEET X-1.

STAGE CONSTRUCTION
SCALE: 1" = 20'

| <p>REVISION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NUMBER</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | NUMBER | DATE | DESCRIPTION | BY | | | | |  <p>PREPARED UNDER THE SUPERVISION OF: <i>Dwight J. Anderson</i> REGISTERED CIVIL ENGINEER No. 69999 3-14-18</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED: DA</td> <td>SS-WN</td> </tr> <tr> <td>CHECKED: CG</td> <td>RR</td> </tr> <tr> <td>DATE: 3/14/18</td> <td> </td> </tr> <tr> <td>ROAD NUMBER: 2403</td> <td> </td> </tr> </table> | DESIGNED: DA | SS-WN | CHECKED: CG | RR | DATE: 3/14/18 | | ROAD NUMBER: 2403 | |  <p>COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION</p> | <p>HAZEL VALLEY ROAD AT EID CANAL BRIDGE REPLACEMENT</p> | <p>SHEET SC-3 15 OF 41 P.O. No. 77125</p> |
|--|--------|-------------|-------------|----|--|--|--|--|---|---|--------------|-------|-------------|----|---------------|--|-------------------|--|--|---|---|
| NUMBER | DATE | DESCRIPTION | BY | | | | | | | | | | | | | | | | | | |
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| ROAD NUMBER: 2403 | | | | | | | | | | | | | | | | | | | | | |

ORIGINAL SCALE IS 1/4" = 1' INCHES
 Drawing name: C:\Users\77125\Documents\77125_Hazel_Valley_at_Eid_Canal\CADD_Files\Sheet\SC-4.dwg Layout: 3bb.SC-4 Apr 06, 2018 7:36am BIRchard

| TEMPORARY RAIL | | | |
|---|--------------|------|--|
| TYPE K SHALL INCLUDE TOP MOUNTED REFLECTORS | | | |
| LOCATION | 'H3' LINE | L.F. | ITEM DESCRIPTION |
| STAGE 1 | 6+97 - 8+95 | 200 | TEMPORARY RAILING (TYPE K) |
| STAGE 1 | 9+27 - 10+45 | 80 | TEMPORARY RAILING (TYPE K) |
| STAGE 2 | 7+21 - 10+21 | 300 | RELOCATE CONCRETE BARRIER (TYPE K) TEMPORARY RAILING (TYPE K) |



NOTE - STAGE 2 K-RAIL TO BE PINNED TO BRIDGE DECK PER SPECIAL PROVISIONS

| STAGE 1B CONSTRUCTION TYPE III BARRICADES | | |
|--|-----------|------|
| LOCATION | 'H3' LINE | E.A. |
| STA 7+13.64-4.00' RT | | 1 |
| STA 10+50.65-6.00' RT | | 1 |
| TOTAL | | 2 |

| STAGE 1A CONSTRUCTION TEMPORARY CRASH CUSHIONS | | |
|---|-----------|------|
| LOCATION | 'H3' LINE | E.A. |
| STA 6+89.33-4.71' LT | | 1 |
| STA 10+45.19-0.23' LT | | 1 |
| TOTAL | | 2 |

| STAGE 1B CONSTRUCTION TEMPORARY CRASH CUSHIONS | | |
|---|-----------|------|
| LOCATION | 'H3' LINE | E.A. |
| STA 7+13.43-2.67' LT (RELOCATED FROM STAGE 1) | | 1 |
| STA 10+21.76-1.46' RT (RELOCATED FROM STAGE 1) | | 1 |
| TOTAL | | 2 |

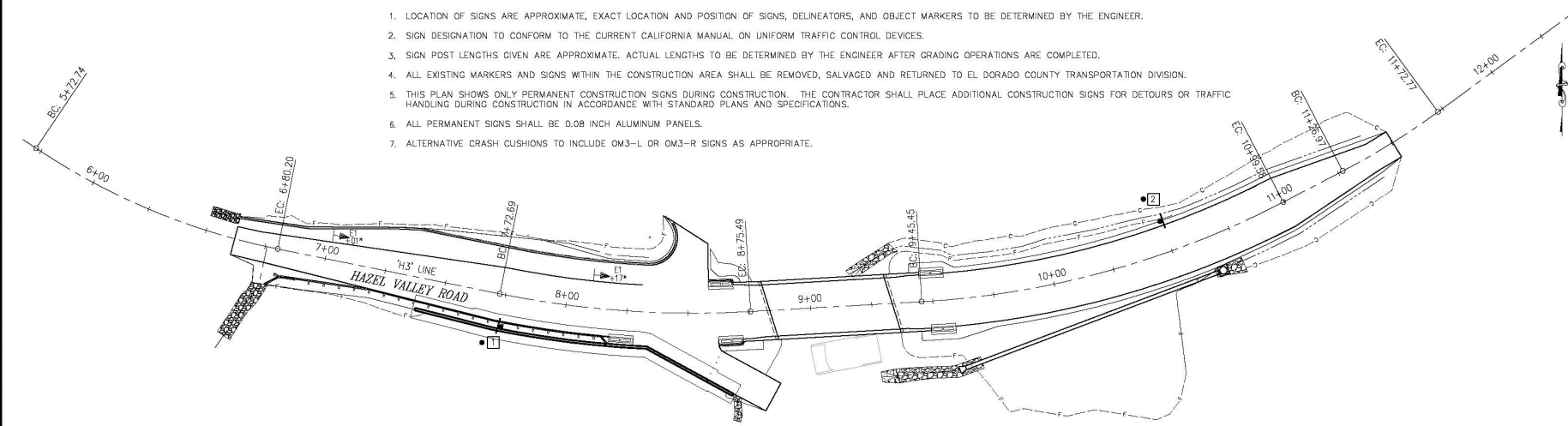
STAGE CONSTRUCTION
SCALE : NONE

| REVISION <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>NUMBER</th><th>DATE</th><th>DESCRIPTION</th><th>BY</th></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table> | NUMBER | DATE | DESCRIPTION | BY | | | | | | | | | | | | | | | | |  | PREPARED UNDER THE SUPERVISION OF : <i>Dwight J. Anderson</i> REGISTERED CIVIL ENGINEER 3-14-18 DATE: | DESIGNED: DA DRAWN: RRR CHECKED: CG DATE: 3/14/18 BOARD NUMBER: 2403 |  <p>COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION</p> | HAZEL VALLEY ROAD AT EID CANAL BRIDGE REPLACEMENT | SHEET SC-4 16 OF 41 S.D. No. 77125 |
|--|--------|-------------|-------------|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|---|--|--|
| NUMBER | DATE | DESCRIPTION | BY | | | | | | | | | | | | | | | | | | | | | | | |
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SIGNING NOTES

1. LOCATION OF SIGNS ARE APPROXIMATE, EXACT LOCATION AND POSITION OF SIGNS, DELINEATORS, AND OBJECT MARKERS TO BE DETERMINED BY THE ENGINEER.
2. SIGN DESIGNATION TO CONFORM TO THE CURRENT CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
3. SIGN POST LENGTHS GIVEN ARE APPROXIMATE. ACTUAL LENGTHS TO BE DETERMINED BY THE ENGINEER AFTER GRADING OPERATIONS ARE COMPLETED.
4. ALL EXISTING MARKERS AND SIGNS WITHIN THE CONSTRUCTION AREA SHALL BE REMOVED, SALVAGED AND RETURNED TO EL DORADO COUNTY TRANSPORTATION DIVISION.
5. THIS PLAN SHOWS ONLY PERMANENT CONSTRUCTION SIGNS DURING CONSTRUCTION. THE CONTRACTOR SHALL PLACE ADDITIONAL CONSTRUCTION SIGNS FOR DETOURS OR TRAFFIC HANDLING DURING CONSTRUCTION IN ACCORDANCE WITH STANDARD PLANS AND SPECIFICATIONS.
6. ALL PERMANENT SIGNS SHALL BE 0.08 INCH ALUMINUM PANELS.
7. ALTERNATIVE CRASH CUSHIONS TO INCLUDE OM3-L OR OM3-R SIGNS AS APPROPRIATE.



PLAN - HAZEL VALLEY ROAD

SCALE: 1"=20'

SIGN QUANTITIES

| SIGN NO. | SIGN | CALIFORNIA MUTCD CODE | PANEL SIZE (INCHES) | POST SIZE & LENGTH | | ROADSIDE SIGNS | | PROPOSED LOCATION (APPROXIMATELY) | |
|----------|-----------------|-----------------------|---------------------|--------------------|-----------|-----------------------------|--------------------|-----------------------------------|--|
| | | | | 4" x 4" | 1.5" x 3" | INSTALL (STRAP & SADDLE) EA | ONE POST (WOOD) EA | | |
| 1 | 'NARROW BRIDGE' | W5-2 | 36 | 15 | | | 1 | 'H3' 7+75-12.5' RT | |
| 2 | 'NARROW BRIDGE' | W5-2 | 36 | 15 | | | 1 | 'H3' 10+50-13' LT | |
| TOTAL | | | | | | | | 2 | |

DELINEATORS

| LOCATION | TYPE E CLASS 1 |
|---------------------------------|----------------|
| 'H3' 7+01-13' LT TO 8+17-13' LT | 5 |

* PLACE 5 CLASS 1 FLEXIBLE DELINEATORS, TYPE E, 2' OUTSIDE OF ETW FROM 'H3' 7+01 TO 8+17. SPACING OF DELINEATORS SHOULD BE EQUAL AND MUST NOT EXCEED 40'. EXACT SPACING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

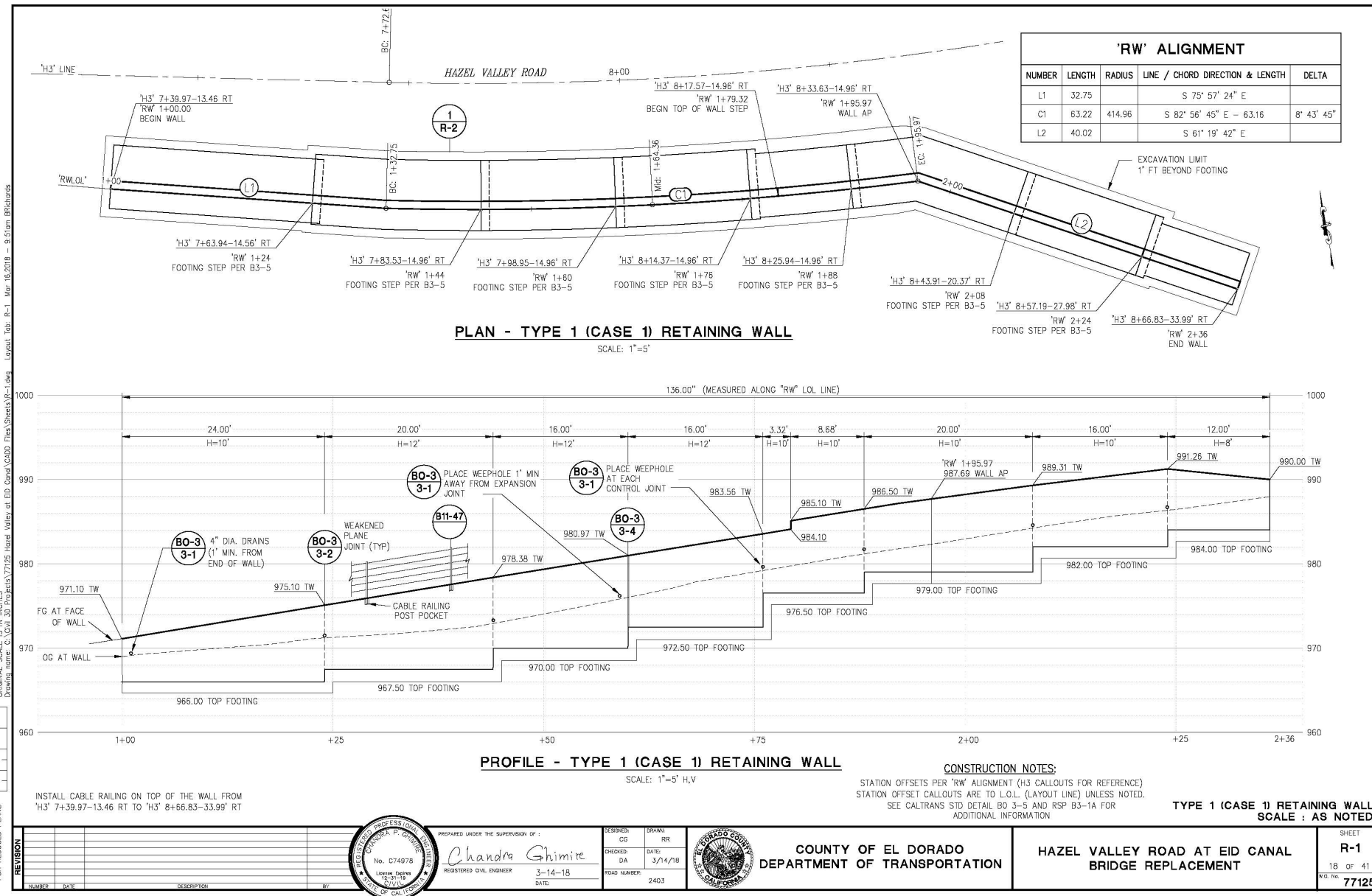
SIGNING LEGEND

- INSTALL SIGN
- PLACE NEW ROADSIDE SIGN(S) AND POST(ONE POST)
- CLASS 1 FLEXIBLE DELINEATOR

THIS SHEET ACCURATE FOR SIGNING WORK ONLY

SIGNING SCALE: AS NOTED

| | | | | | | |
|---|--|--|--|---|--|--|
| REVISION NUMBER DATE DESCRIPTION BY | | PREPARED UNDER THE SUPERVISION OF: <i>Doughty D. Anderson</i> REGISTERED CIVIL ENGINEER 3-14-18 | DESIGNED: DA SS-WN CHECKED: CG DATE: 3/14/18 ROAD NUMBER: 2403 | COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION | HAZEL VALLEY ROAD AT EID CANAL BRIDGE REPLACEMENT | SHEET SPD-1 17 OF 41 R.O. No. 77125 |
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ORIGINAL SCALE IS IN INCHES
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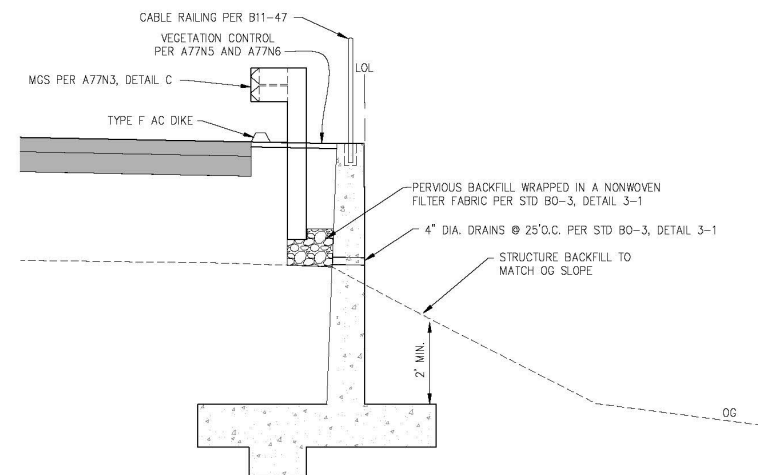
INSTALL CABLE RAILING ON TOP OF THE WALL FROM 'H3' 7+39.97-13.46 RT TO 'H3' 8+66.83-33.99' RT

CONSTRUCTION NOTES:
 STATION OFFSETS PER 'RW' ALIGNMENT (H3 CALLOUTS FOR REFERENCE)
 STATION OFFSET CALLOUTS ARE TO L.O.L. (LAYOUT LINE) UNLESS NOTED.
 SEE CALTRANS STD DETAIL BO 3-5 AND RSP B3-1A FOR ADDITIONAL INFORMATION

TYPE 1 (CASE 1) RETAINING WALL
 SCALE : AS NOTED



| | | | | |
|---|--|---|---|--|
| PREPARED UNDER THE SUPERVISION OF: Chandra Shimire REGISTERED CIVIL ENGINEER No. 3-14-18 | | DESIGNED: CG CHECKED: DA DATE: 3/14/18 ROAD NUMBER: 2403 | COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION HAZEL VALLEY ROAD AT EID CANAL BRIDGE REPLACEMENT | SHEET R-1 18 OF 41 77125 |
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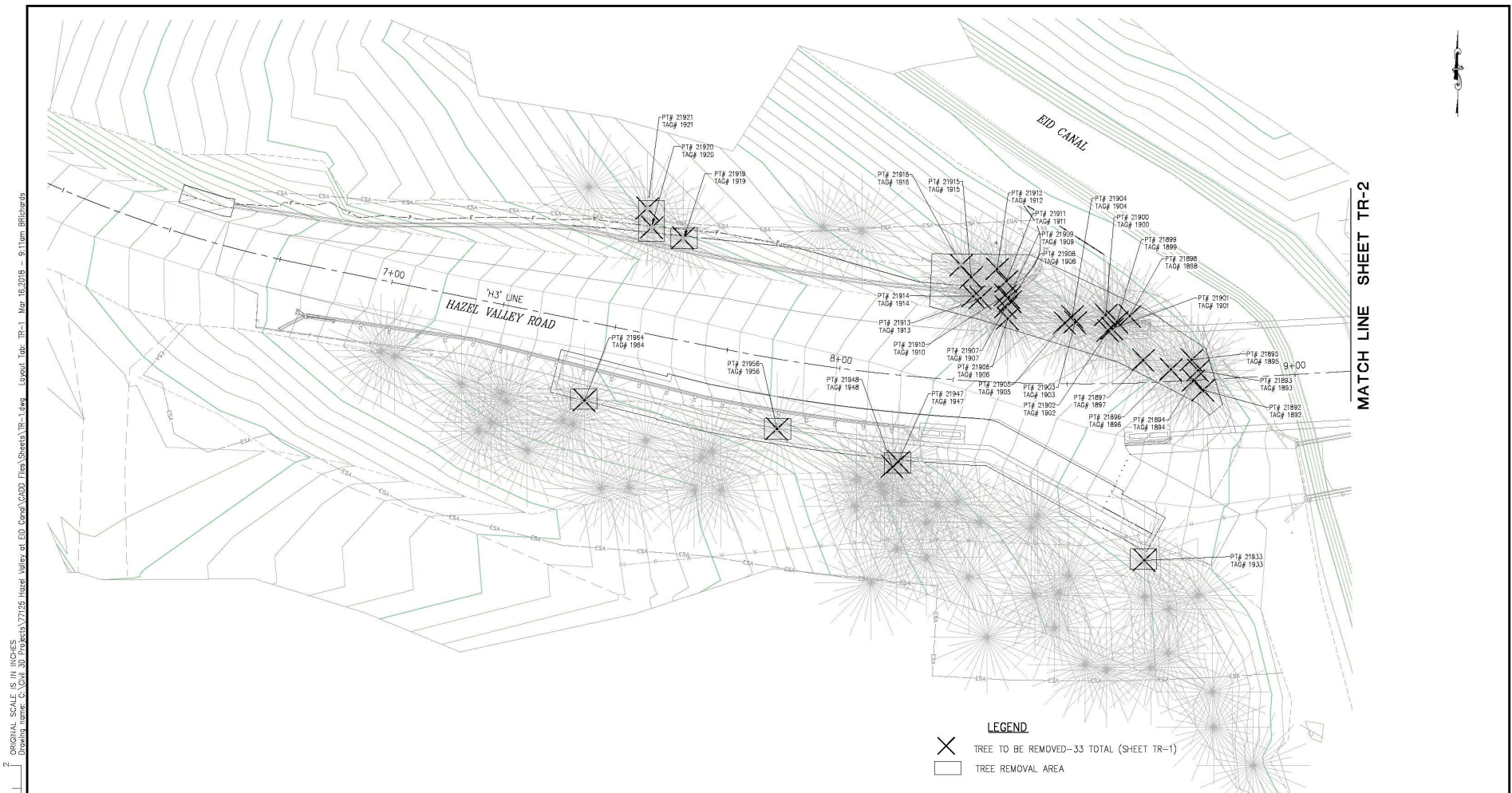
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 FOR REDUCED PLANS
 REVISION



1 RETAINING WALL
SCALE: 1"=2' H,V

TYPE 1 (CASE 1) RETAINING WALL
SCALE : AS NOTED

| | | | | | | |
|--|--|--|----------------------------|--|---|--|
| PREPARED UNDER THE SUPERVISION OF:  Chandru Shimir REGISTERED CIVIL ENGINEER No. C74978 3-14-18 | | DESIGNED: CG CHECKED: DA ROAD NUMBER: 2403 | DRAWN: RR DATE: 3/14/18 |  COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION | HAZEL VALLEY ROAD AT EID CANAL BRIDGE REPLACEMENT | SHEET R-2 19 OF 41 77125 |
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FOR REDUCED PLANS
 REVISION

| NUMBER | DATE | DESCRIPTION | BY |
|--------|------|-------------|----|
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PREPARED UNDER THE SUPERVISION OF:
Dwayne D. Anderson
 REGISTERED CIVIL ENGINEER 3-14-18
 DATE:

DESIGNED: DA
 CHECKED: CG
 ROAD NUMBER: 2403
 DATE: 3/14/18

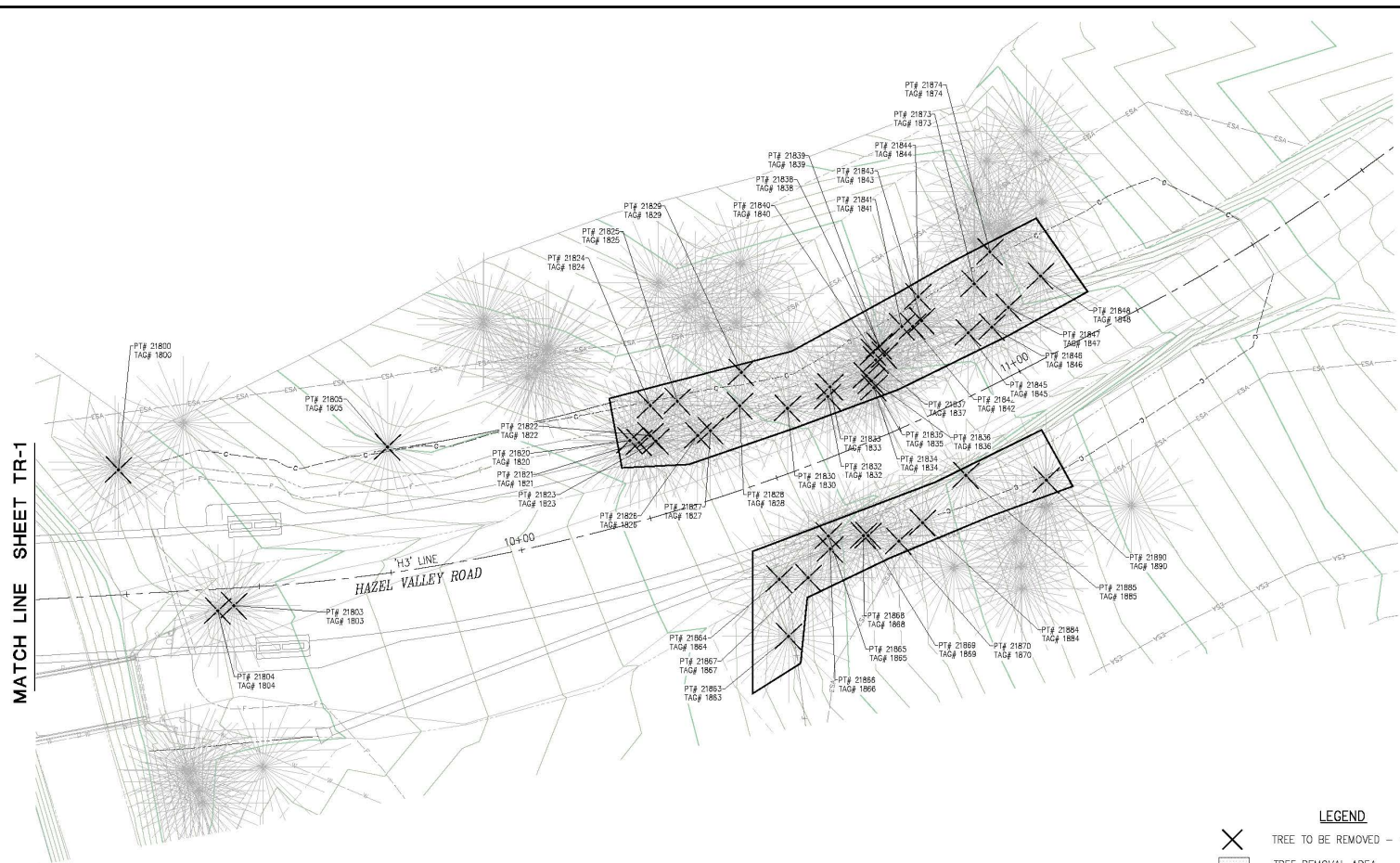


COUNTY OF EL DORADO
 DEPARTMENT OF TRANSPORTATION

HAZEL VALLEY ROAD AT EID CANAL
 BRIDGE REPLACEMENT

TREE REMOVAL
 SCALE : AS NOTED
 SHEET
 TR-1
 20 OF 41
 P.O. No. 77125

ORIGINAL SCALE IS 1/4" INCHES
 FOR REDUCED PLANS
 Drawing name: C:\Cor_30 Projects\77125 Hazel Valley at EID Canal\CADD Files\Sheets\TR-2.dwg Layout: Lbr: TR-2 Mod: 18/2018 - B. Adam Richards
 REVISION





PLAN - HAZEL VALLEY ROAD
SCALE: 1"=10'

LEGEND
 X TREE TO BE REMOVED - 45 TOTAL (SHEET TR-2)
 [Shaded Area] TREE REMOVAL AREA

NOTES:
 1. DO NOT REMOVE TREES PRIOR TO WRITTEN PERMISSION BY THE ENGINEER.
 2. ONLY REMOVE TREES AS MARKED FOR REMOVAL.

TREE REMOVAL SCALE : AS NOTED

| | | | | | | |
|--|--|--|----------------------------|---|--|---|
| PREPARED UNDER THE SUPERVISION OF:  Dwight J. Anderson REGISTERED CIVIL ENGINEER 3-14-18 | | DESIGNED: DA CHECKED: CG ROAD NUMBER: 2403 | DRAWN: RR DATE: 3/14/18 |  COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION | HAZEL VALLEY ROAD AT EID CANAL BRIDGE REPLACEMENT | SHEET TR-2 21 OF 41 W.D. No. 77125 |
|--|--|--|----------------------------|---|--|---|

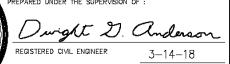


ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\el_dorado\Projects\77125 Hazel Valley at EID Canal\CADD Files\Sheet3\TR-3.dwg
 Layout: Tbl-3
 User: 18/2018 - B. Bann
 B. Bann

| TREE REMOVAL TABLE | | | | | | |
|--------------------|-------|-------|--------------|-----------|----------|-----------|
| POINT # | TAG # | Desc | Circum. (ft) | Dia. (ft) | STATION | OFFSET |
| 21800 | 1800 | FIR | 1.90 | 0.60 | 9+24.76 | 23.52' LT |
| 21803 | 1803 | PINE | 4.90 | 1.56 | 9+45.00 | 3.29' RT |
| 21804 | 1804 | PINE | 5.70 | 1.81 | 9+41.92 | 4.08' RT |
| 21805 | 1805 | PINE | 5.30 | 1.69 | 9+77.78 | 23.55' LT |
| 21820 | 1820 | PINE | 2.90 | 0.92 | 10+25.25 | 15.14' LT |
| 21821 | 1821 | PINE | 2.10 | 0.67 | 10+26.89 | 14.31' LT |
| 21822 | 1822 | CEDAR | 1.80 | 0.57 | 10+29.35 | 14.95' LT |
| 21823 | 1823 | PINE | 1.90 | 0.60 | 10+30.14 | 13.66' LT |
| 21824 | 1824 | PINE | 1.20 | 0.38 | 10+31.09 | 20.40' LT |
| 21825 | 1825 | PINE | 1.60 | 0.51 | 10+36.48 | 19.66' LT |
| 21826 | 1826 | PINE | 1.40 | 0.45 | 10+38.25 | 12.32' LT |
| 21827 | 1827 | PINE | 1.60 | 0.51 | 10+40.90 | 12.45' LT |
| 21828 | 1828 | PINE | 1.30 | 0.41 | 10+47.90 | 15.12' LT |
| 21829 | 1829 | PINE | 1.20 | 0.38 | 10+50.44 | 20.94' LT |
| 21830 | 1830 | PINE | 1.00 | 0.32 | 10+56.52 | 11.57' LT |
| 21832 | 1832 | PINE | 1.30 | 0.41 | 10+64.64 | 10.88' LT |
| 21833 | 1833 | PINE | 2.20 | 0.70 | 10+65.79 | 12.41' LT |
| 21834 | 1834 | PINE | 2.60 | 0.83 | 10+73.57 | 9.04' LT |
| 21835 | 1835 | FIR | 1.60 | 0.51 | 10+73.62 | 10.40' LT |
| 21836 | 1836 | FIR | 1.60 | 0.51 | 10+73.12 | 11.70' LT |
| 21837 | 1837 | FIR | 2.20 | 0.70 | 10+76.03 | 13.69' LT |
| 21838 | 1838 | FIR | 1.10 | 0.35 | 10+77.98 | 13.83' LT |
| 21839 | 1839 | FIR | 2.10 | 0.67 | 10+77.75 | 15.87' LT |
| 21840 | 1840 | FIR | 1.20 | 0.38 | 10+76.25 | 15.18' LT |
| 21841 | 1841 | PINE | 1.30 | 0.41 | 10+83.43 | 17.39' LT |
| 21842 | 1842 | PINE | 1.70 | 0.54 | 10+85.41 | 16.57' LT |
| 21843 | 1843 | PINE | 2.90 | 0.92 | 10+87.46 | 16.82' LT |
| 21844 | 1844 | CEDAR | 1.20 | 0.38 | 10+88.91 | 21.18' LT |
| 21845 | 1845 | PINE | 1.20 | 0.38 | 10+94.63 | 10.90' LT |
| 21846 | 1846 | PINE | 1.90 | 0.60 | 10+99.21 | 9.81' LT |
| 21847 | 1847 | PINE | 2.90 | 0.92 | 11+03.70 | 11.69' LT |
| 21848 | 1848 | PINE | 1.80 | 0.57 | 11+11.80 | 14.14' LT |
| 21863 | 1863 | PINE | 1.30 | 0.41 | 10+42.59 | 28.95' RT |
| 21864 | 1864 | PINE | 1.50 | 0.48 | 10+44.27 | 18.21' RT |
| 21865 | 1865 | PINE | 1.30 | 0.41 | 10+55.26 | 13.65' RT |
| 21866 | 1866 | PINE | 1.10 | 0.35 | 10+54.74 | 16.05' RT |
| 21867 | 1867 | PINE | 1.10 | 0.35 | 10+49.25 | 19.72' RT |
| 21868 | 1868 | FIR | 1.20 | 0.38 | 10+61.21 | 15.97' RT |

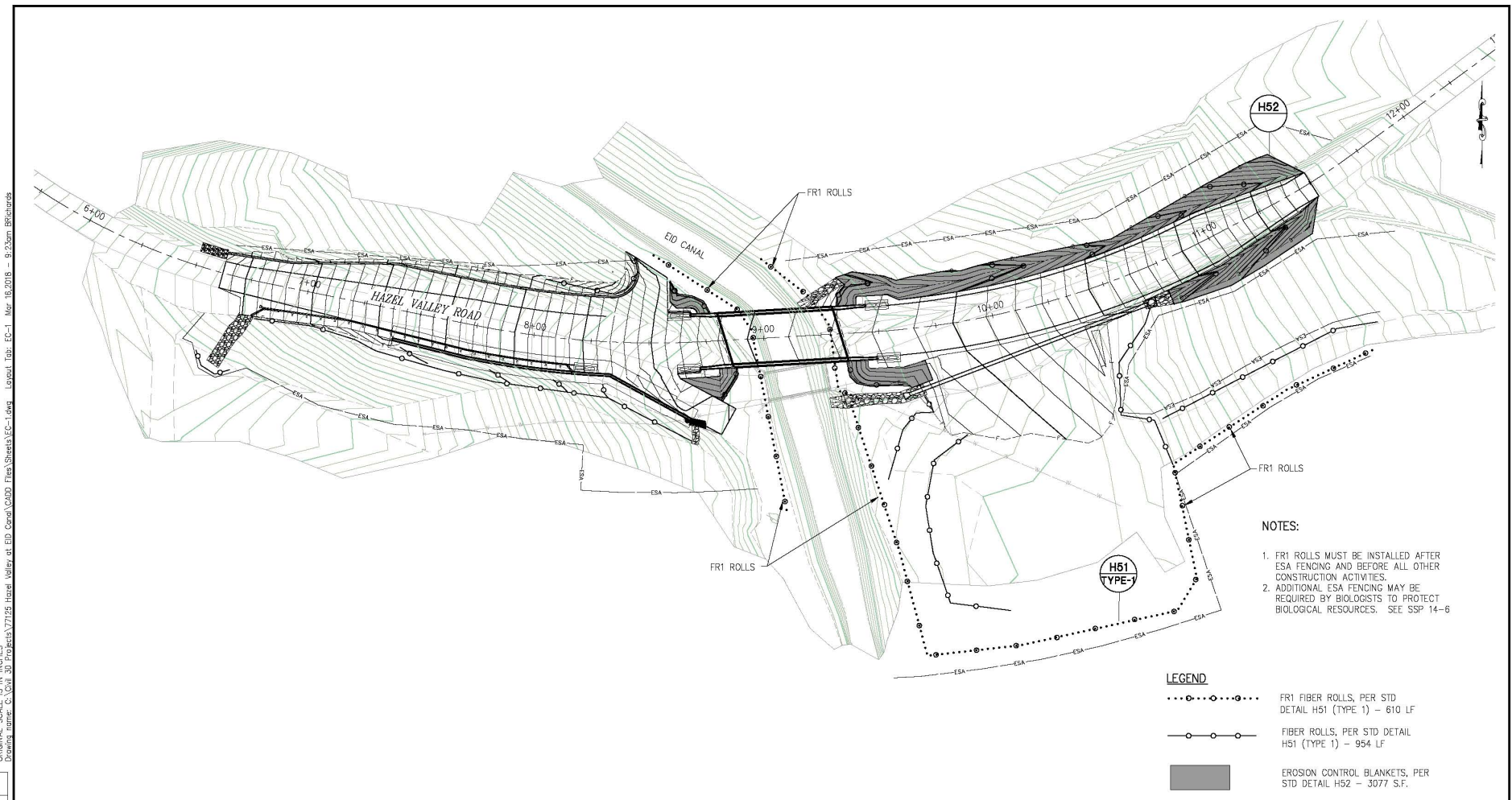
| TREE REMOVAL TABLE | | | | | | |
|--------------------|-------|---------------|--------------|-----------|----------|-----------|
| POINT # | TAG # | Desc | Circum. (ft) | Dia. (ft) | STATION | OFFSET |
| 21869 | 1869 | FIR | 1.30 | 0.41 | 10+62.01 | 16.28' RT |
| 21870 | 1870 | FIR | 1.40 | 0.45 | 10+66.75 | 19.42' RT |
| 21873 | 1873 | FIR | 1.50 | 0.48 | 11+00.05 | 18.59' LT |
| 21874 | 1874 | FIR | 2.70 | 0.86 | 11+05.47 | 22.58' LT |
| 21884 | 1884 | PINE | 1.60 | 0.51 | 10+71.94 | 17.93' RT |
| 21885 | 1885 | FIR | 1.70 | 0.54 | 10+82.58 | 13.11' RT |
| 21890 | 1890 | PINE | 1.80 | 0.57 | 10+95.25 | 20.51' RT |
| 21892 | 1892 | FIR | 2.20 | 0.70 | 8+79.70 | 2.24' RT |
| 21893 | 1893 | FIR | 2.00 | 0.64 | 8+78.79 | 2.11' LT |
| 21894 | 1894 | FIR | 1.80 | 0.51 | 8+77.63 | 0.09' RT |
| 21895 | 1895 | FIR | 1.50 | 0.48 | 8+77.51 | 4.50' LT |
| 21896 | 1896 | FIR | 1.70 | 0.54 | 8+72.85 | 2.65' LT |
| 21897 | 1897 | FIR | 1.50 | 0.48 | 8+66.80 | 4.96' LT |
| 21898 | 1898 | FIR | 1.20 | 0.38 | 8+64.12 | 14.72' LT |
| 21899 | 1899 | FIR | 1.10 | 0.35 | 8+61.20 | 13.55' LT |
| 21900 | 1900 | CEDAR | 1.20 | 0.38 | 8+58.65 | 15.05' LT |
| 21901 | 1901 | FIR | 1.20 | 0.38 | 8+60.08 | 12.02' LT |
| 21902 | 1902 | FIR | 1.50 | 0.48 | 8+59.16 | 11.62' LT |
| 21903 | 1903 | FIR | 1.50 | 0.48 | 8+51.72 | 13.50' LT |
| 21904 | 1904 | FIR | 1.30 | 0.41 | 8+51.01 | 14.77' LT |
| 21905 | 1905 | OAK | 1.30 | 0.41 | 8+49.35 | 13.37' LT |
| 21906 | 1906 | PINE | 2.20 | 0.70 | 8+36.37 | 14.03' LT |
| 21907 | 1907 | FIR | 1.40 | 0.45 | 8+35.82 | 16.45' LT |
| 21908 | 1908 | FIR | 1.60 | 0.51 | 8+36.85 | 17.85' LT |
| 21909 | 1909 | FIR | 1.30 | 0.41 | 8+36.47 | 18.72' LT |
| 21910 | 1910 | OAK | 2.40 | 0.76 | 8+35.57 | 19.07' LT |
| 21911 | 1911 | FIR | 1.40 | 0.45 | 8+35.69 | 22.14' LT |
| 21912 | 1912 | FIR | 2.40 | 0.76 | 8+33.43 | 24.75' LT |
| 21913 | 1913 | FIR | 1.50 | 0.48 | 8+29.95 | 18.24' LT |
| 21914 | 1914 | FIR | 1.40 | 0.45 | 8+28.26 | 18.53' LT |
| 21915 | 1915 | OAK | 2.80 | 0.89 | 8+27.53 | 22.64' LT |
| 21916 | 1916 | OAK (torched) | 2.20 | 0.70 | 8+24.95 | 25.10' LT |
| | | | 1.80 | 0.57 | | |
| 21919 | 1919 | CEDAR | 6.50 | 2.07 | 7+60.64 | 22.22' LT |
| 21920 | 1920 | CEDAR | 4.30 | 1.37 | 7+53.57 | 22.92' LT |
| 21921 | 1921 | FIR | 9.80 | 3.12 | 7+51.69 | 26.95' LT |

| TREE REMOVAL TABLE | | | | | | |
|--------------------|-------|-----------------|--------------|-----------|---------|-----------|
| POINT # | TAG # | Desc | Circum. (ft) | Dia. (ft) | STATION | OFFSET |
| 21933 | 1933 | FIR | 5.20 | 1.66 | 8+65.61 | 38.87' RT |
| 21947 | 1947 | CEDAR | 5.80 | 1.85 | 8+14.72 | 18.92' RT |
| 21948 | 1948 | CEDAR | 4.40 | 1.40 | 8+13.56 | 20.12' RT |
| 21956 | 1956 | CEDAR (torched) | 6.60 | 2.10 | 7+88.50 | 15.15' RT |
| | | | 3.00 | 0.95 | | |
| 21964 | 1964 | FIR | 2.30 | 0.73 | 7+46.51 | 17.04' RT |

TREE REMOVAL
SCALE : AS NOTED

| | | | | | | | |
|--|--|--|----------------------------|---|---|--|---|
| PREPARED UNDER THE SUPERVISION OF:  No. 69999 REGISTERED CIVIL ENGINEER 3-14-18 | | DESIGNED: DA CHECKED: CG ROAD NUMBER: 2403 | DRAWN: RR DATE: 3/14/18 |   | COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION | HAZEL VALLEY ROAD AT EID CANAL BRIDGE REPLACEMENT | SHEET TR-3 22 OF 41 P.O. No. 77125 |
|--|--|--|----------------------------|---|---|--|---|

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\GIS\Projects\77125 Hazel Valley at EID Canal\CADD Files\Sheet\EC-1.dwg Legend: EID Canal EC-1
 11/18/2016 9:23am Bricard



- NOTES:**
- FR1 ROLLS MUST BE INSTALLED AFTER ESA FENCING AND BEFORE ALL OTHER CONSTRUCTION ACTIVITIES.
 - ADDITIONAL ESA FENCING MAY BE REQUIRED BY BIOLOGISTS TO PROTECT BIOLOGICAL RESOURCES. SEE SSP 14-6

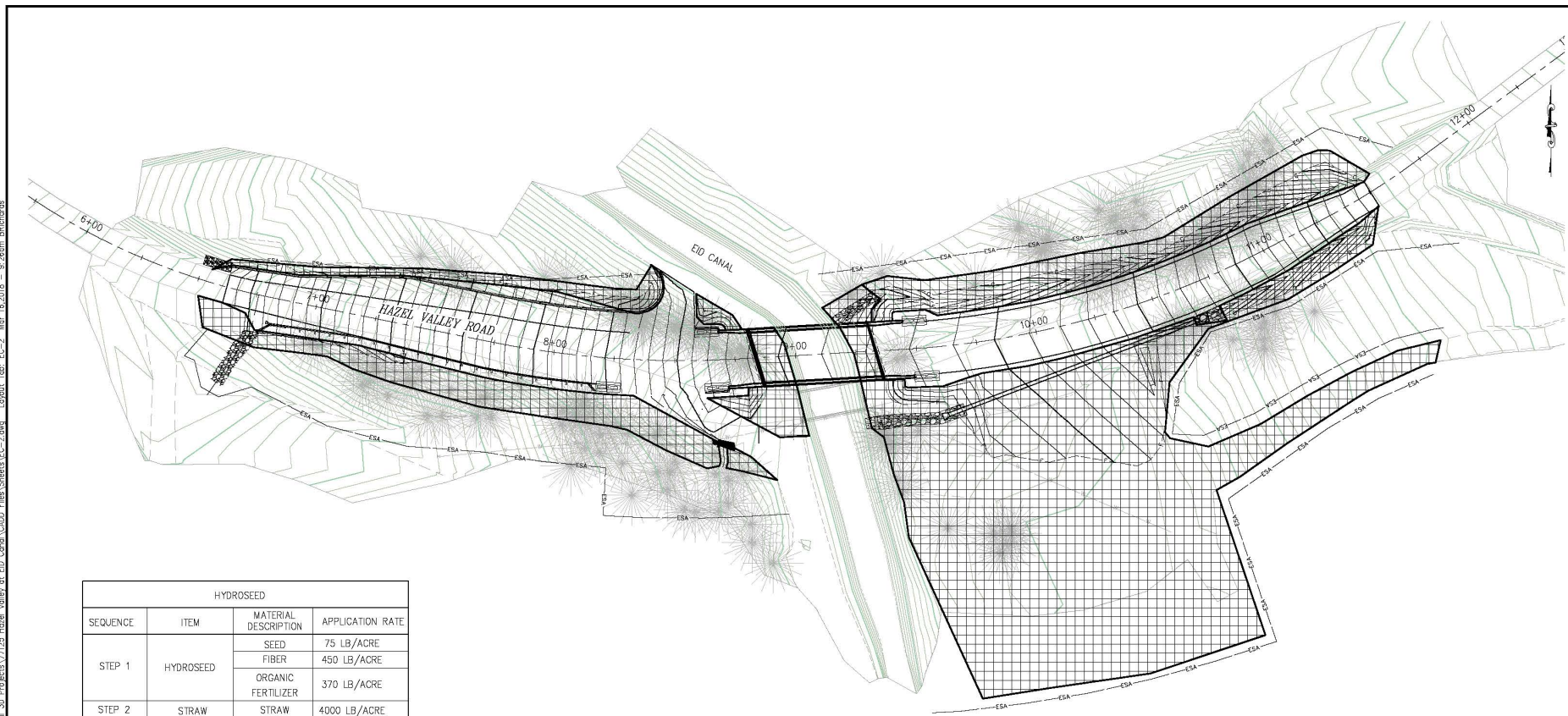
- LEGEND**
- FR1 FIBER ROLLS, PER STD DETAIL H51 (TYPE 1) - 610 LF
 - FIBER ROLLS, PER STD DETAIL H51 (TYPE 1) - 994 LF
 - EROSION CONTROL BLANKETS, PER STD DETAIL H52 - 3077 S.F.
 - ENVIRONMENTALLY SENSITIVE AREA FENCING - 1305 L.F.

PLAN - HAZEL VALLEY ROAD
 EROSION CONTROL BLANKETS AND FIBER ROLLS

EROSION CONTROL
 SCALE : 1" = 20'


| <p style="writing-mode: vertical-rl; transform: rotate(180deg);">FOR REDUCED PLANS</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">REVISION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">NUMBER</th> <th style="width: 10%;">DATE</th> <th style="width: 70%;">DESCRIPTION</th> <th style="width: 10%;">BY</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> | NUMBER | DATE | DESCRIPTION | BY | | | | | <p>PREPARED UNDER THE SUPERVISION OF: <i>Dwight D. Anderson</i> REGISTERED CIVIL ENGINEER 3-14-18</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED: DA</td> <td>SS-WN</td> </tr> <tr> <td>CHECKED: CG</td> <td>DATE: 3/14/18</td> </tr> <tr> <td>ROAD NUMBER: 2403</td> <td> </td> </tr> </table> | DESIGNED: DA | SS-WN | CHECKED: CG | DATE: 3/14/18 | ROAD NUMBER: 2403 | | <p>COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION</p> | <p>HAZEL VALLEY ROAD AT EID CANAL BRIDGE REPLACEMENT</p> | <p>SHEET EC-1 23 OF 41 P.O. No. 77125</p> |
|---|---------------|-------------|-------------|----|--|--|--|--|--|---|--------------|-------|-------------|---------------|-------------------|--|---|--|---|
| NUMBER | DATE | DESCRIPTION | BY | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| DESIGNED: DA | SS-WN | | | | | | | | | | | | | | | | | | |
| CHECKED: CG | DATE: 3/14/18 | | | | | | | | | | | | | | | | | | |
| ROAD NUMBER: 2403 | | | | | | | | | | | | | | | | | | | |

ORIGINAL SCALE IS IN INCHES
 Drawing name: C:\CA\38 Projects\77125 Hazel Valley at EID Canal\CADD Files\Sheets\EC-2.dwg - Layout Tab - EC-2 - 3/14/18 - 9:26am - BRichards
 FOR REDUCED PLANS
 REVISION





| HYDROSEED | | | |
|-----------|------------|----------------------|------------------|
| SEQUENCE | ITEM | MATERIAL DESCRIPTION | APPLICATION RATE |
| STEP 1 | HYDROSEED | SEED | 75 LB/ACRE |
| | | FIBER | 450 LB/ACRE |
| | | ORGANIC FERTILIZER | 370 LB/ACRE |
| STEP 2 | STRAW | STRAW | 4000 LB/ACRE |
| STEP 3 | HYDROMULCH | FIBER | 450 LB/ACRE |
| | | ORGANIC FERTILIZER | 370 LB/ACRE |
| | | TACKIFIER | 83 LB/ACRE |

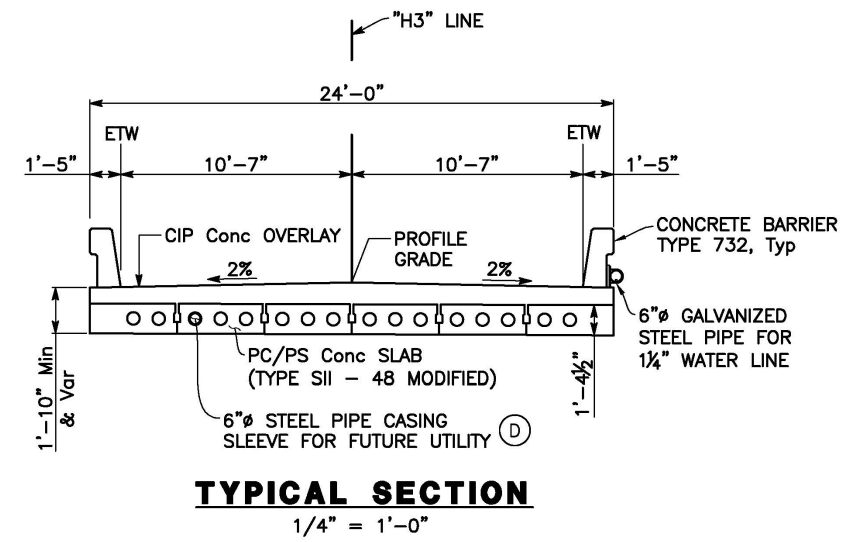
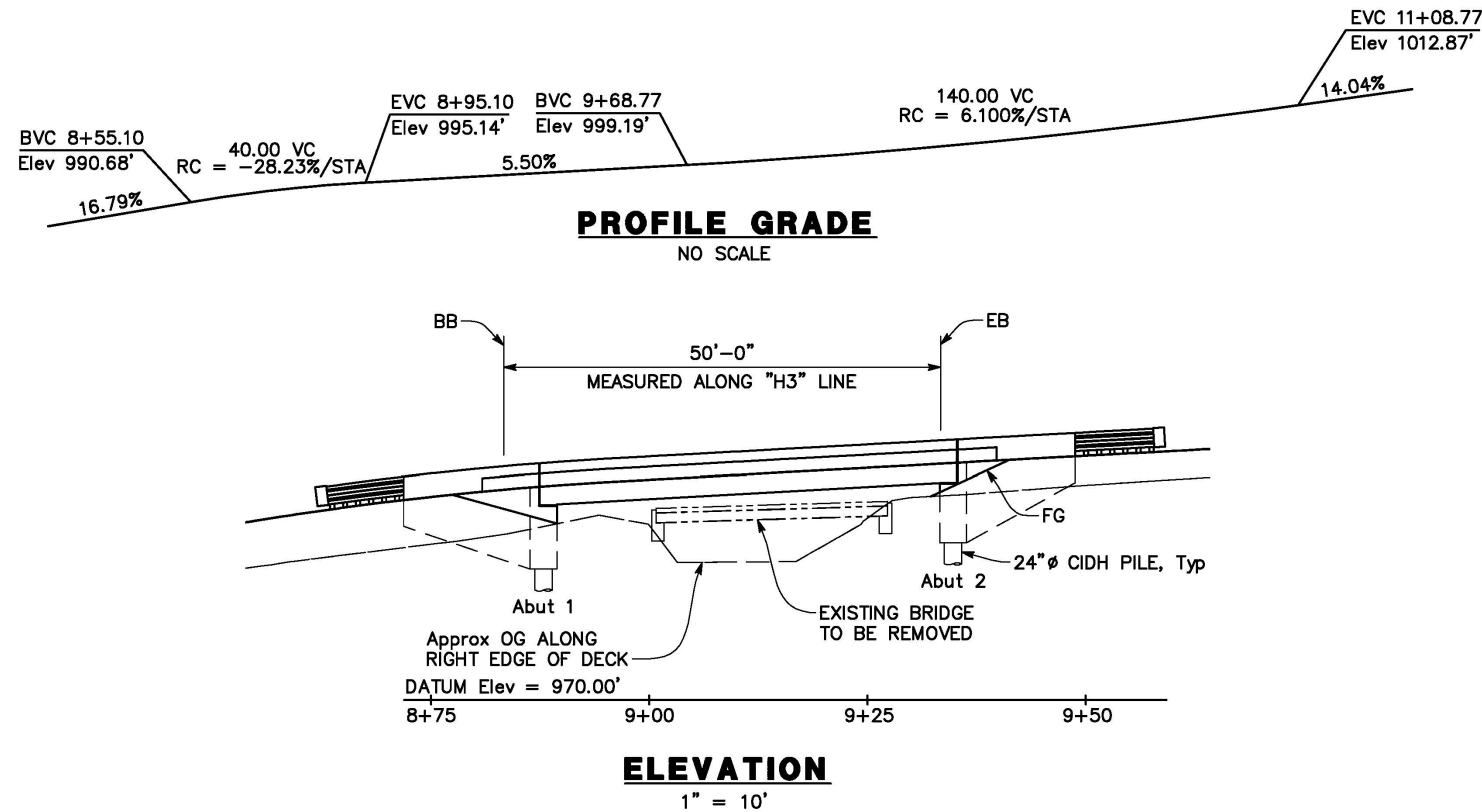
SEED SOURCE SHALL ORIGINATE FROM SACRAMENTO VALLEY AND SIERRA FOOTHILLS REGIONS
 SEE SPECIAL PROVISIONS 21-2.02F FOR SEED MIX

LEGEND
 HYDROSEED AREA - 26,548 S.F.

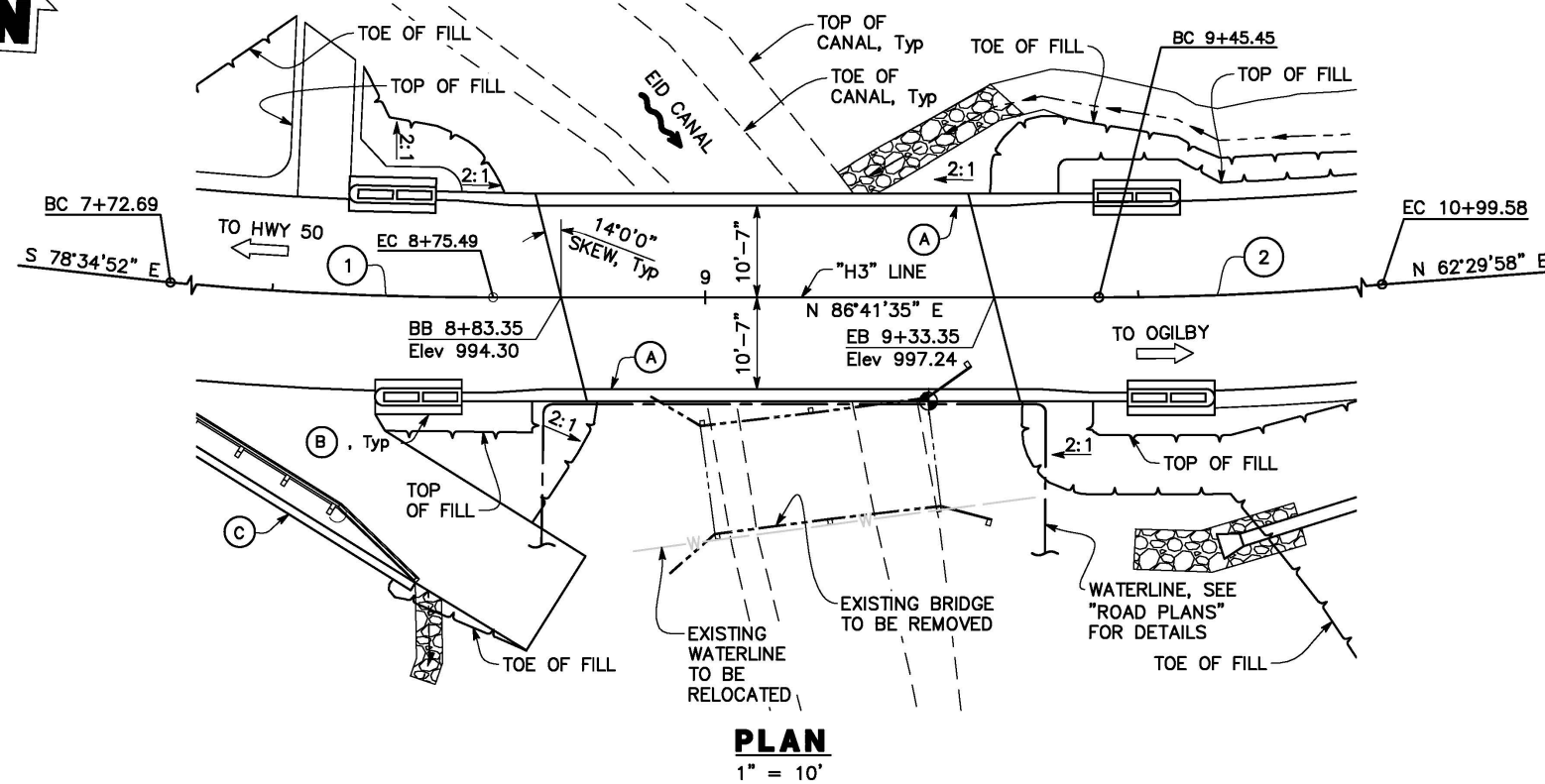
PLAN - HAZEL VALLEY ROAD

EROSION CONTROL
 SCALE : 1" = 20'

| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NUMBER</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> | NUMBER | DATE | DESCRIPTION | BY | | | | |  | PREPARED UNDER THE SUPERVISION OF: <i>Dwight J. Anderson</i> No. 69999 REGISTERED CIVIL ENGINEER 3-14-18 | DESIGNED: DA CHECKED: CG ROAD NUMBER: 2403 |  | COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION | HAZEL VALLEY ROAD AT EID CANAL BRIDGE REPLACEMENT | SHEET EC-2 24 OF 41 P.O. No. 77125 |
|--|--------|-------------|-------------|----|--|--|--|--|---|--|--|---|---|--|--|
| NUMBER | DATE | DESCRIPTION | BY | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |



| CURVE DATA | | | | |
|------------|---------|-----------|--------|---------|
| No. | R | Δ | T | L |
| ① | 400.00' | 14°43'33" | 51.69' | 102.81' |
| ② | 365.00' | 24°11'37" | 78.23' | 154.13' |



LEGEND:

- Indicates Direction of Water Flow
- Indicates Direction of Traffic
- Indicates Existing Bridge
- Indicates New Structure

NOTES:

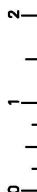
For Index to Plans, Standard Plans, Concrete Strength and Type limits, and Quantities, see "DECK CONTOURS" sheet.

For Drainage Details not shown, see "Road Plans".

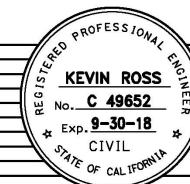
- Ⓐ Paint "HAZEL VALLEY ROAD AT EID CANAL" and Bridge No. "25C-0140".
- Ⓑ Alternative Crash Cushion System.
- Ⓒ Retaining Wall, see "ROAD PLANS".
- Ⓓ Extend 5'-0" long 6" Steel Pipe Casing 1'-0" beyond back face of Abutment Backwall at each Abutment and cap ends to prevent debris from entering casing as shown on "PC/PS SLAB LAYOUT" sheet. Steel Pipe Casing to be NPS 6 Schedule 40.

**GENERAL PLAN
SCALE AS SHOWN**

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES



| REVISION | NUMBER | DATE | DESCRIPTION | BY |
|----------|--------|------|-------------|----|
| | | | | |
| | | | | |
| | | | | |



PREPARED UNDER THE SUPERVISION OF:
Kevin Ross
 REGISTERED CIVIL ENGINEER
 DATE: 03/22/18

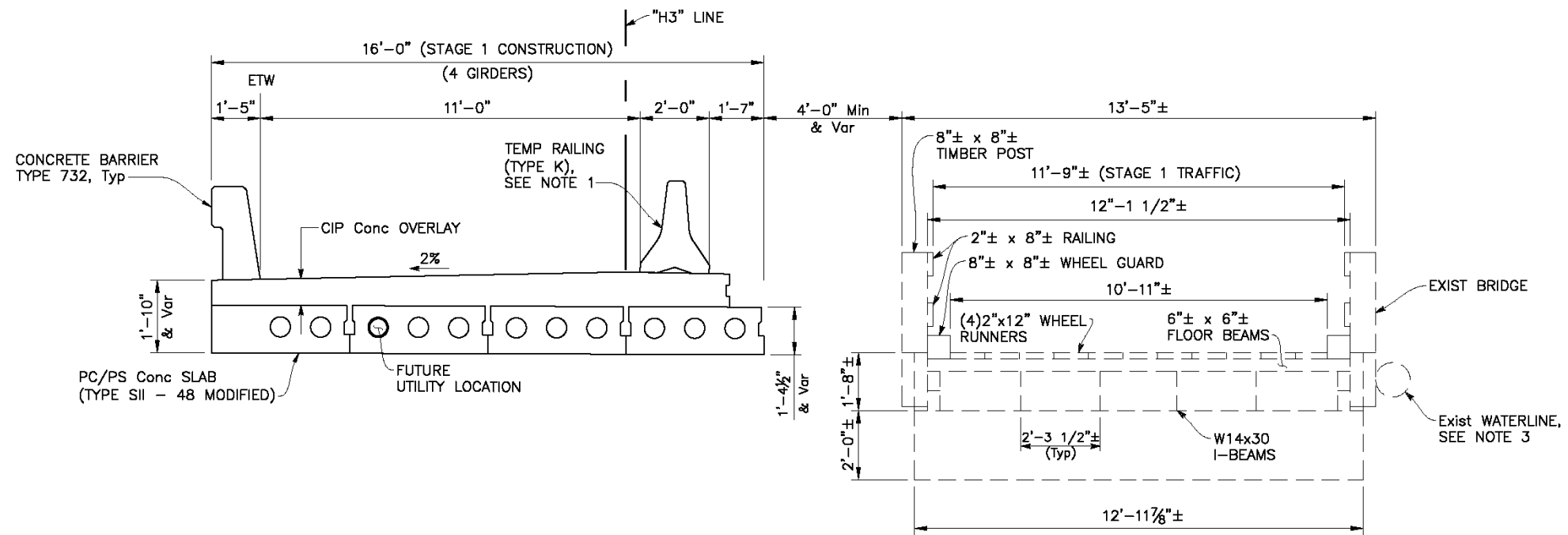
DESIGNED: GX DRAWN: KD
 CHECKED: LM DATE: 03/22/18
 ROAD NUMBER: 2403



**COUNTY OF EL DORADO
COMMUNITY DEVELOPMENT AGENCY
TRANSPORTATION DIVISION**

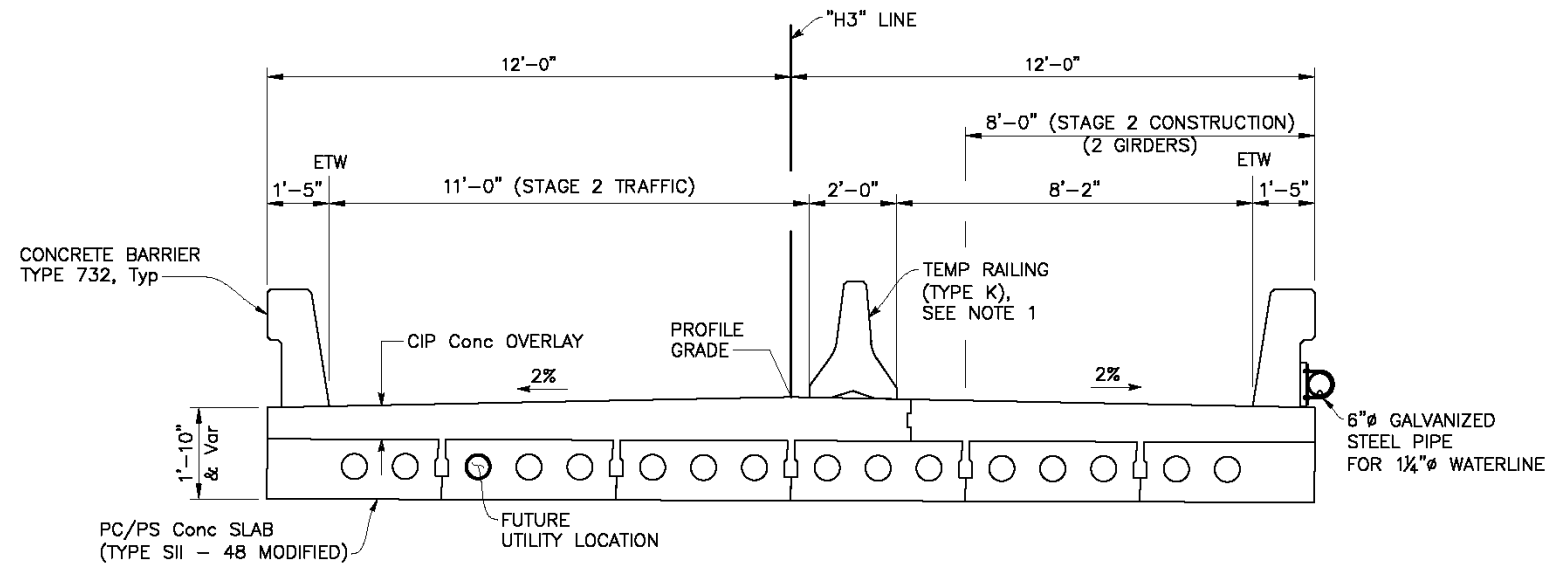
**HAZEL VALLEY ROAD AT EID CANAL
BRIDGE REPLACEMENT**

SHEET
S-1
25 OF 41
W.D. No. 77125



STAGE 1 CONSTRUCTION

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



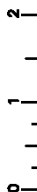
STAGE 2 CONSTRUCTION

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

NOTES:

1. For K-Rail placement, see "Road Plans".
2. Existing bridge to be removed during Stage 2 Construction.
3. Temporarily support the existing water line prior to placing on new bridge during Stage 2 Construction.

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

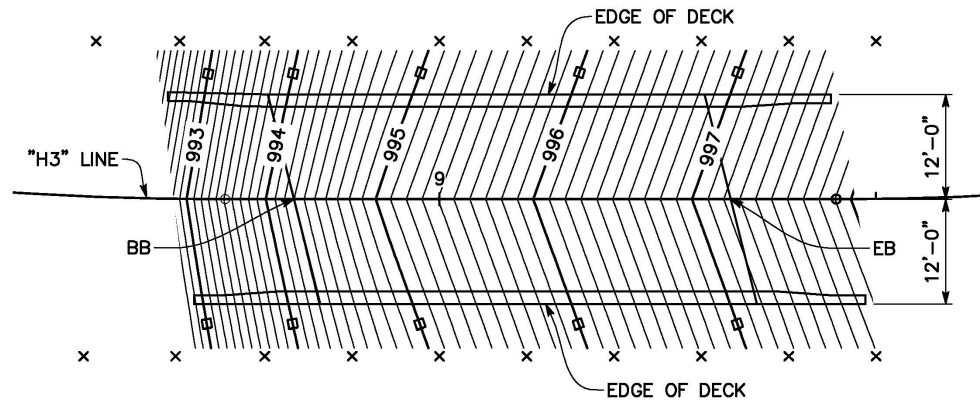


STAGE CONSTRUCTION
SCALE AS SHOWN

| | | | | | | | |
|--|--|--|--|--|--|--|---|
| REVISION NUMBER DATE DESCRIPTION BY | PREPARED UNDER THE SUPERVISION OF: KEVIN ROSS No. C 49852 Exp. 9-30-18 CIVIL STATE OF CALIFORNIA | | ROAD NUMBER: 2403 | | COUNTY OF EL DORADO COMMUNITY DEVELOPMENT AGENCY TRANSPORTATION DIVISION | HAZEL VALLEY ROAD AT EID CANAL BRIDGE REPLACEMENT | SHEET S-2 26 of 41 I.D. No. 77125 |
| | DATE: 03/22/18 | | DESIGNED: CX DRAWN: KD CHECKED: LM DATE: 03/22/18 | | | | |

INDEX TO BRIDGE PLANS

| No. | Title |
|------|----------------------------|
| S-1 | GENERAL PLAN |
| S-2 | STAGE CONSTRUCTION |
| S-3 | DECK CONTOURS |
| S-4 | FOUNDATION PLAN |
| S-5 | ABUTMENT 1 LAYOUT |
| S-6 | ABUTMENT 2 LAYOUT |
| S-7 | ABUTMENT DETAILS |
| S-8 | TYPICAL SECTION |
| S-9 | PC/PS SLAB LAYOUT |
| S-10 | PC/PS SLAB DETAILS NO. 1 |
| S-11 | PC/PS SLAB DETAILS NO. 2 |
| S-12 | PC/PS SLAB DETAILS NO. 3 |
| S-13 | MISCELLANEOUS DETAILS |
| S-14 | LOG OF TEST BORINGS 1 of 4 |
| S-15 | LOG OF TEST BORINGS 2 of 4 |
| S-16 | LOG OF TEST BORINGS 3 of 4 |
| S-17 | LOG OF TEST BORINGS 4 of 4 |



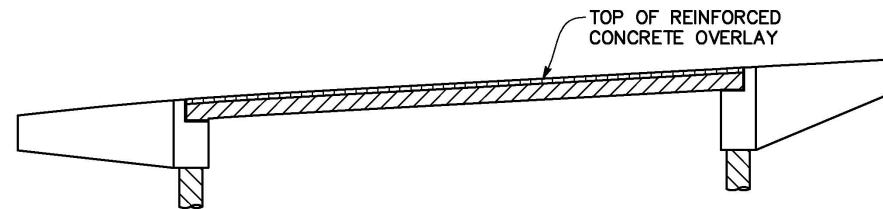
PLAN
1" = 10'

NOTES:

1. Contours do not include Camber.
2. 0.1' Contour Interval.
3. x Indicates 10' Intervals along "Station" Line.
4. □ Indicates whole foot contours.
5. Elevations shown are for top of reinforced concrete overlay. For Roadway elevations beyond BB & EB, see "Road Plans".

QUANTITIES

| Description | Unit | Quantity |
|--|------|----------|
| Bridge Removal | LS | 1 |
| Structure Excavation (Bridge) | CY | 65 |
| Structure Backfill (Bridge) | CY | 53 |
| 24" Cast-In-Drilled-Hole Concrete piling | LF | 238 |
| Structural Concrete, Bridge | CY | 58 |
| Structural Concrete, Bridge (Polymer Fiber) | CY | 37 |
| Furnish Precast Prestressed Concrete Slab (Type SII - 48 Modified) | SQFT | 1,150 |
| Erect Precast Prestressed Concrete Deck Unit | EA | 6 |
| Joint Seal (MR 1")(Type B) | LF | 50 |
| Bar Reinforcing Steel (Bridge) | LB | 10,500 |
| Bar Reinforcing Steel (Epoxy Coated) (Bridge) | LB | 4,280 |
| Bar Reinforcing Steel (Galvanized) | LB | 140 |
| 6" Galvanized Steel pipe | LF | 58 |
| Steel Pipe Casing (NPS 6, Schedule 40)(Future Utility) | LF | 10 |
| Concrete Barrier (Type 732) | LF | 153 |
| Mobilization | LS | 1 |



LEGEND:

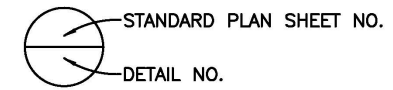
- Structural Concrete Bridge (Polymer Fiber) (f'c = 4.0 ksi 28 days)
- Structural Concrete, Bridge (f'c = 4.0 ksi @ 28 days)
- Precast Prestressed Concrete Slab (Type SII - 48 Modified) (See "PRECAST SLAB DETAILS NO. 2" sheet for required strength)
- CIDH Concrete Pile (f'c = 4.0 ksi @ 28 days)

CONCRETE STRENGTH AND TYPE LIMITS

NO SCALE

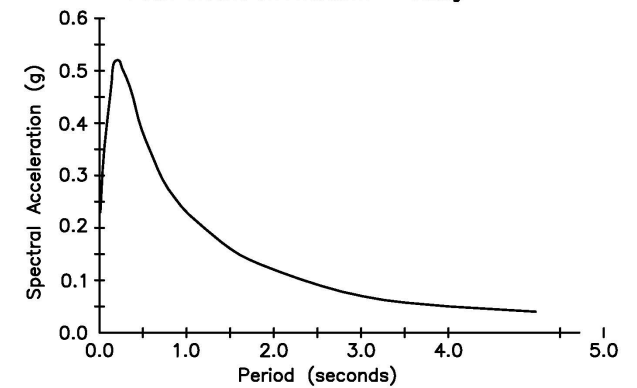
2015 STANDARD PLANS

- A3A ABBREVIATIONS (SHEET 1 OF 3)
- A3B ABBREVIATIONS (SHEET 2 OF 3)
- A3C ABBREVIATIONS (SHEET 3 OF 3)
- A10A LEGEND-LINE AND SYMBOLS (SHEET 1 OF 5)
- A10B LEGEND-LINE AND SYMBOLS (SHEET 2 OF 5)
- A10C LEGEND-LINE AND SYMBOLS (SHEET 3 OF 5)
- A10D LEGEND-LINE AND SYMBOLS (SHEET 4 OF 5)
- A10E LEGEND-LINE AND SYMBOLS (SHEET 5 OF 5)
- BO-1 BRIDGE DETAILS
- RSP BO-3 BRIDGE DETAILS
- BO-5 BRIDGE DETAILS
- BO-13 BRIDGE DETAILS
- B2-3 16" AND 24" CAST-IN-DRILLED HOLE CONCRETE PILE
- B6-21 JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
- B7-10 UTILITY OPENING BOX GIRDER
- B11-55 CONCRETE BARRIER TYPE 732
- T3A TEMPORARY RAILING (TYPE K)



**GENERAL NOTES
LOAD RESISTANCE FACTOR DESIGN**

- DESIGN: AASTHO LRFD Bridge Design Specifications, Sixth Edition, 2012 and the California Amendments, preface dated January 2014
- SEISMIC DESIGN: Caltrans Seismic Design Criteria (SDC), Version 1.7, April 2013
- DEAD LOAD: 100 lb/ft for future utilities
- LIVE LOADING: HL 93 and permit design loading
- SEISMIC LOADING: Soil Profile: Type D VS30 = 339 m/s
Moment Magnitude = 7.0
Peak Ground Acceleration = 0.23g



- REINFORCED CONCRETE: f_y = 60 ksi
f'c = see "Concrete Strength and Type Limits"
n = 8
- PRESTRESSED CONCRETE: See "Prestressing Notes" on "Girder Details No. 2" sheet

**DECK CONTOURS
SCALE AS SHOWN**

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

| REVISION | NUMBER | DATE | DESCRIPTION | BY |
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PREPARED UNDER THE SUPERVISION OF:
Kevin Ross
REGISTERED CIVIL ENGINEER
DATE: 03/22/18

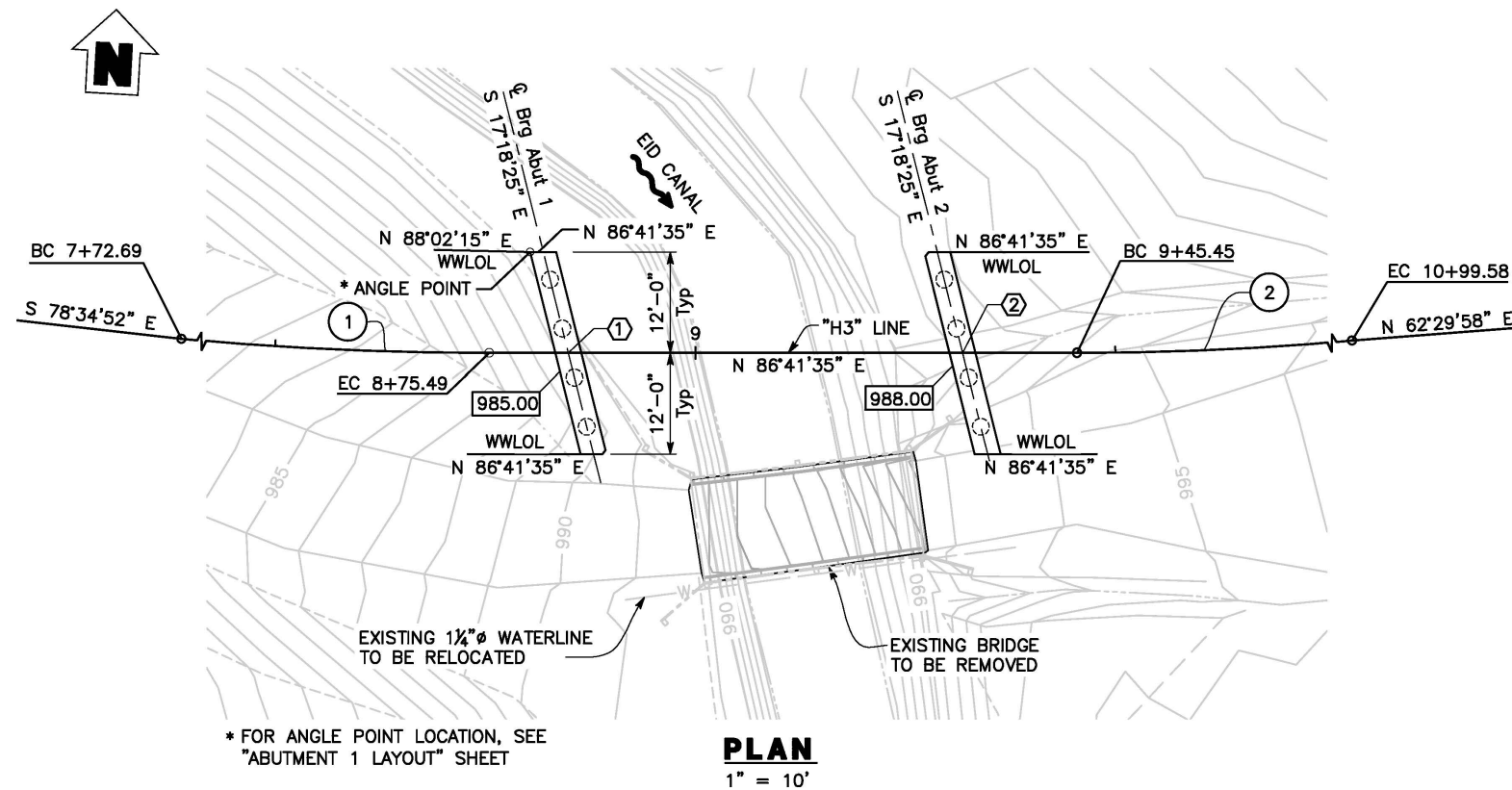
DESIGNED: GX DRAWN: KD
CHECKED: LM DATE: 03/22/18
ROAD NUMBER: 2403



COUNTY OF EL DORADO
COMMUNITY DEVELOPMENT AGENCY
TRANSPORTATION DIVISION

HAZEL VALLEY ROAD AT EID CANAL
BRIDGE REPLACEMENT

SHEET S-3
27 OF 41
W.D. No. 77125



LEGEND:

- Indicates Bottom of Footing Elevation
- Indicates Direction of Water Flow
- Indicates Existing Bridge
- Indicates New Structure
- Indicates 24" ϕ CIDH Pile

BENCH MARK:

SEE "ROADWAY PLANS"

CURVE DATA

| No. | R | Δ | T | L |
|-----|---------|-----------|--------|---------|
| ① | 400.00' | 14°43'33" | 51.69' | 102.81' |
| ② | 365.00' | 24°11'37" | 78.23' | 154.13' |

PILE DATA TABLE

| LOCATION | PILE TYPE | PILE CUT-OFF ELEVATION (FT) | NOMINAL RESISTANCE | | DESIGN TIP ELEVATION (ft) | SPECIFIED TIP ELEVATION (ft) |
|----------|-----------|-----------------------------|--------------------|----------------|---------------------------|------------------------------|
| | | | COMPRESSION (kips) | TENSION (kips) | | |
| Abut 1 | 24" CIDH | 985.25 | 400 | 0 | 952.0(a) | 954.0 |
| Abut 2 | 24" CIDH | 988.25 | 400 | 0 | 960.0(a) | 960.0 |

NOTE:
1. Design tip elevations are controlled by: (a) Strength Limit Compression, (b) Extreme Event Limit compression and (c) Lateral load.

| | Northing | Easting |
|------------------------------------|-----------|------------|
| ① ϕ Brg Abut 1 Sta 8+84.89 | 9984.4334 | 49853.3655 |
| ② ϕ Brg Abut 2 Sta 9+31.80 | 9987.0394 | 49899.8094 |

SCOUR DATA TABLE

| SUPPORT NO. | LONG TERM (DEGRADATION AND CONTRACTION) SCOUR ELEVATION (FT) | SHORT TERM (LOCAL) SCOUR DEPTH (FT) |
|-------------|--|-------------------------------------|
| Abut 1 | N/A | N/A |
| Abut 2 | N/A | N/A |

NOTE:
1. Existing channel is lined thus no scour is anticipated.

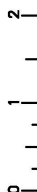
HYDROLOGIC SUMMARY

| | |
|-----------------------------------|---------|
| Discharge (Cubic feet per second) | 165 cfs |
|-----------------------------------|---------|

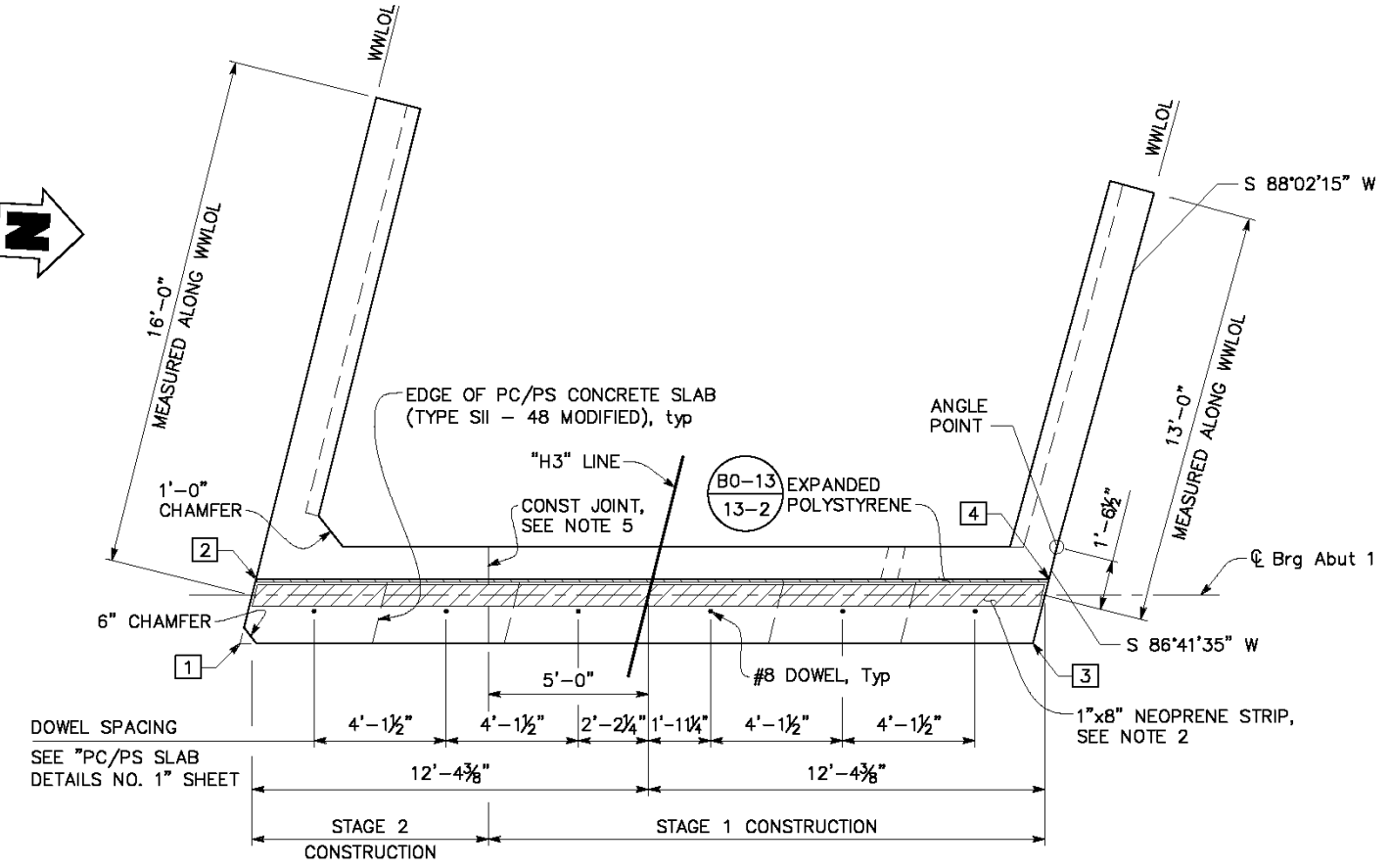
- NOTES:
- El Dorado Irrigation District (EID) Canal water includes slope runoff, EID controlled diversions from South Fork American River and other various creeks and water ways.
 - Canal diversion water ways are operated by EID to prevent overtopping of the EID canal.

FOUNDATION PLAN
SCALE AS SHOWN

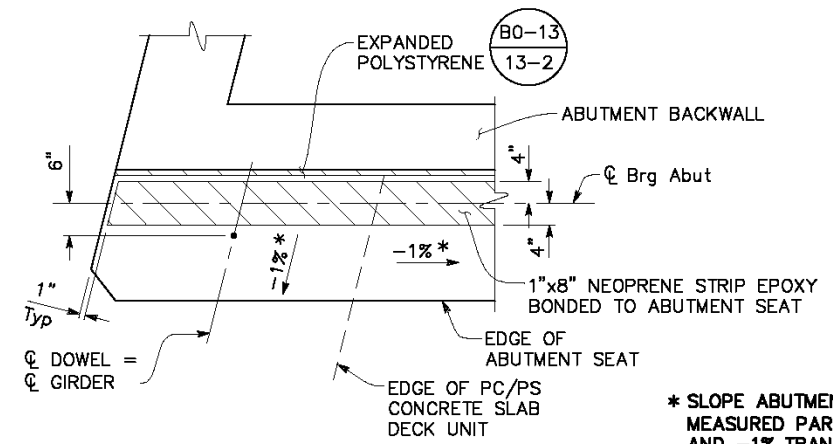
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES



| <table border="1"> <thead> <tr> <th>REVISION</th> <th>NUMBER</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> | REVISION | NUMBER | DATE | DESCRIPTION | BY | | | | | | | | | | | | | | | | | | | | | | PREPARED UNDER THE SUPERVISION OF: REGISTERED CIVIL ENGINEER DATE: 03/22/18 | DESIGNED: GX DRAWN: KD CHECKED: LM DATE: 03/22/18 ROAD NUMBER: 2403 | <p>COUNTY OF EL DORADO COMMUNITY DEVELOPMENT AGENCY TRANSPORTATION DIVISION</p> | HAZEL VALLEY ROAD AT EID CANAL BRIDGE REPLACEMENT | SHEET S-4 28 OF 41 W.D. No. 77125 |
|---|----------|--------|-------------|-------------|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|--|---|
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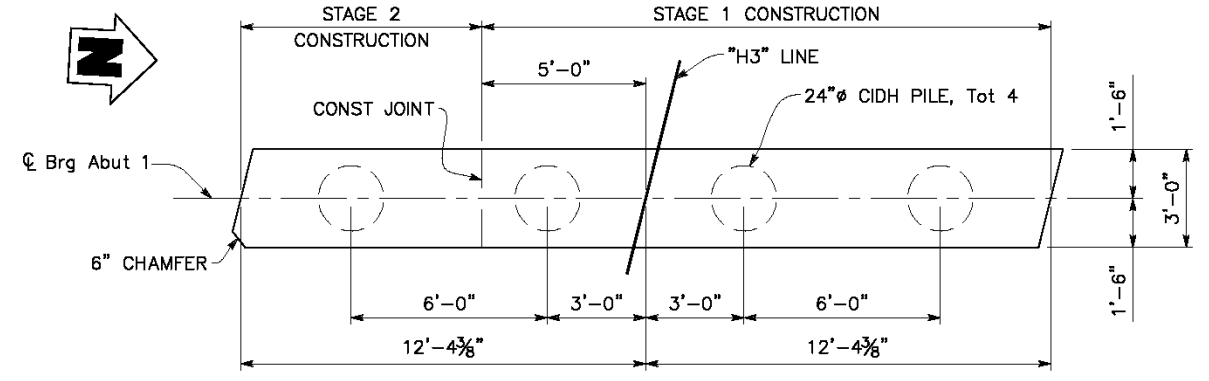


PLAN
3/8" = 1'-0"

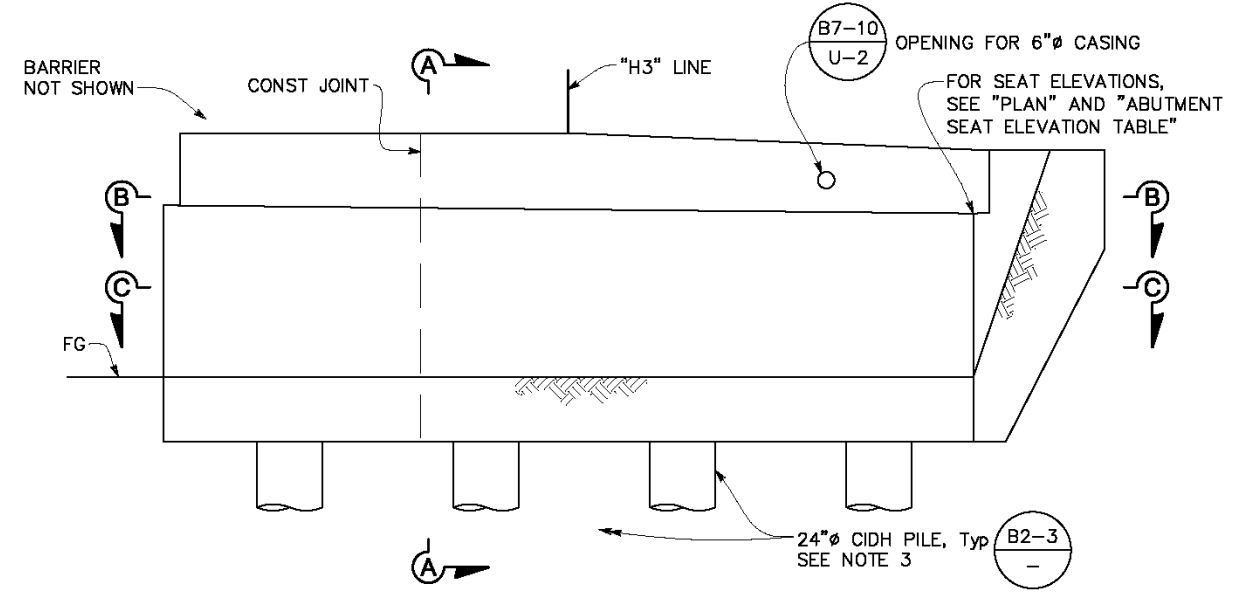


NEOPRENE STRIP DETAIL
3/4" = 1'-0"

* SLOPE ABUTMENT SEAT -1% LONGITUDINAL, MEASURED PARALLEL TO THE "H3" LINE AND -1% TRANSVERSELY, MEASURED PARALLEL TO CL BRG ABUT



PILE LAYOUT
3/8" = 1'-0"



ELEVATION
3/8" = 1'-0"

NOTES:

- For "SECTION A-A", "SECTION B-B" and "SECTION C-C", see "ABUTMENT DETAILS NO. 1" sheet.
- For Neoprene Strip details, see "NEOPRENE STRIP DETAIL" this sheet.
- Piles must have inspection tubes per Standard Plan B2-3. Place temporary decking over excavated area as required to provide safe access over open trench during both construction stages as authorized by the Engineer. All piles may be placed in Stage 1, but the Contractor is responsible for all costs associated with making temporary adjustments to the traffic control required to construct the piles shown in Stage 2. Modifications to the traffic control plan must be authorized by the Engineer prior to making any adjustments.
- No backfill at the abutment is allowed until the deck is in place and the dowels in both abutments are grouted and cured. Backfill must be placed in lifts such there is no more than a 1' difference in height between abutments at any time.
- All transverse reinforcement must extend 1'-6" minimum into Stage 2 except #8 bars. Extend #8 bars 1'-0" into Stage 2. #8 bars must be mechanically spliced using service level splices. #8 bars must not be bent.
- No construction equipment is allowed within 10'-0" of the top of the EID Canal.

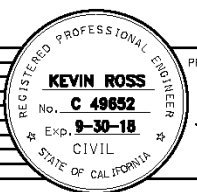
ABUTMENT SEAT ELEVATION TABLE

| LOCATION | 1 | 2 | 3 | 4 |
|-----------|--------|--------|--------|--------|
| SEAT Elev | 992.20 | 992.22 | 991.95 | 991.97 |

LEGEND:
W.P. = Working Point
[X] Abutment Seat Elevation

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

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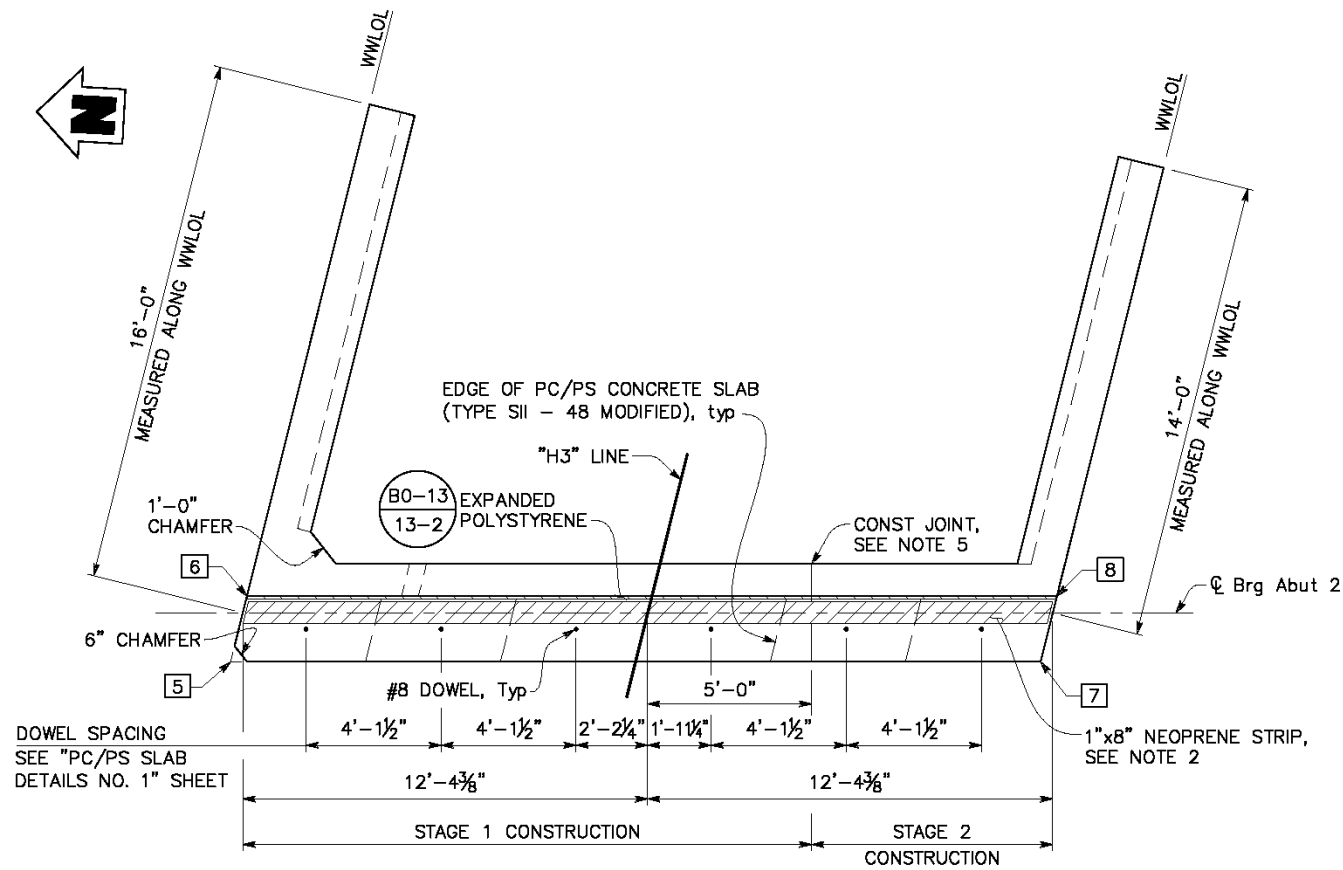
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CHECKED: LM DATE: 03/22/18
ROAD NUMBER: 2403



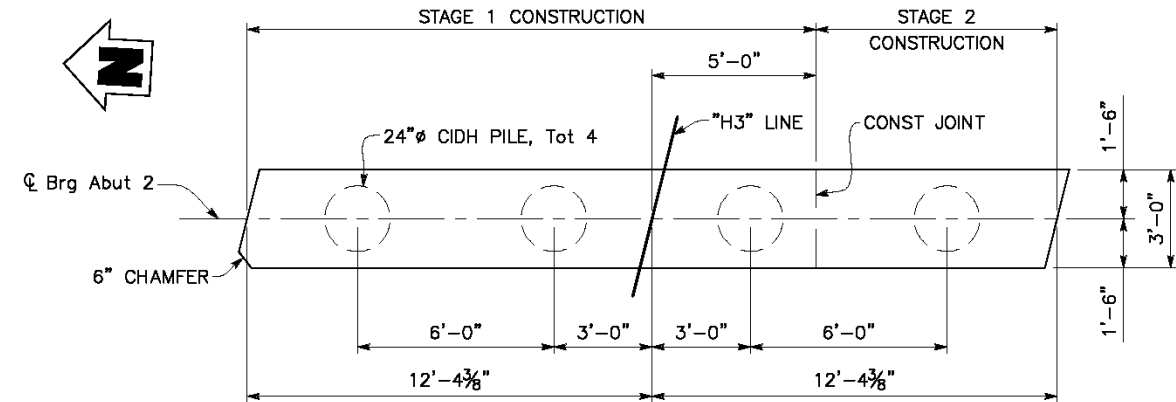
COUNTY OF EL DORADO
COMMUNITY DEVELOPMENT AGENCY
TRANSPORTATION DIVISION

HAZEL VALLEY ROAD AT EID CANAL
BRIDGE REPLACEMENT

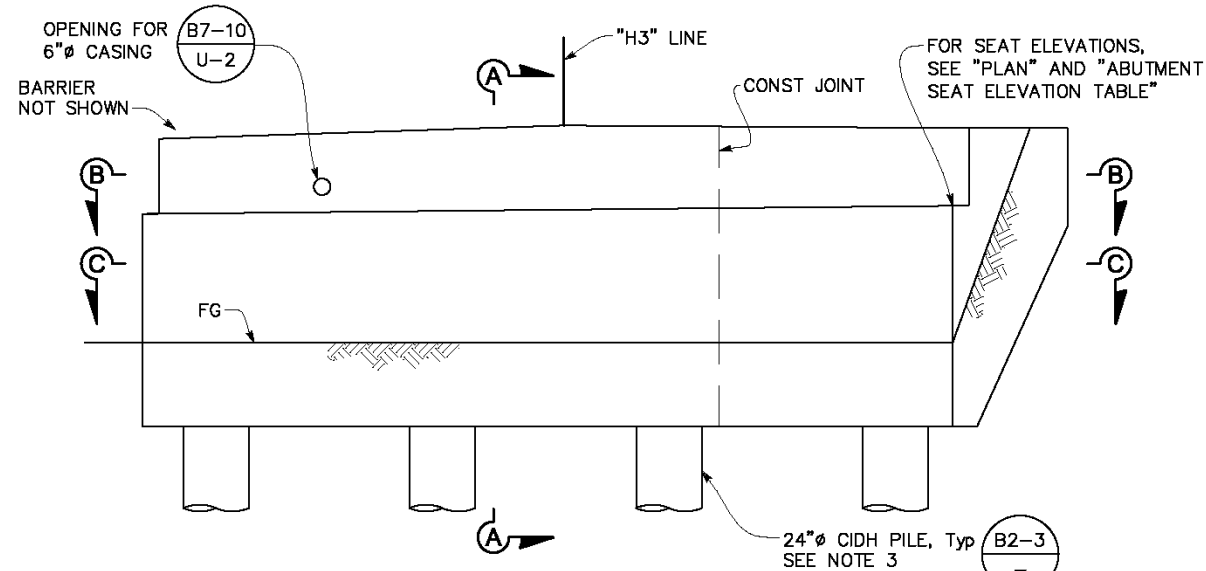
SHEET
S-5
29 of 41
NO. 77125



PLAN
3/8" = 1'-0"



PILE LAYOUT
3/8" = 1'-0"



ELEVATION
3/8" = 1'-0"

NOTES:

- For "SECTION A-A", "SECTION B-B" and "SECTION C-C", see "ABUTMENT DETAILS NO. 1" sheet.
- For Neoprene Strip details, see "NEOPRENE STRIP DETAIL" on "ABUTMENT 1 LAYOUT" sheet.
- Piles must have inspection tubes per Standard Plan B2-3. Place temporary decking over excavated area as required to provide safe access over open trench during both construction stages as authorized by the Engineer. All piles may be placed in Stage 1, but the Contractor is responsible for all costs associated with making temporary adjustments to the traffic control required to construct the piles shown in Stage 2. Modifications to the traffic control plan must be authorized by the Engineer prior to making any adjustments.
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- All transverse reinforcement must extend 1'-6" minimum into Stage 2 except #8 bars. Extend #8 bars 1'-0" into Stage 2. #8 bars must be mechanically spliced using service level splices. #8 bars must not be bent.
- No construction equipment is allowed within 10'-0" of the top of the EID Canal.

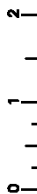
ABUTMENT SEAT ELEVATION TABLE

| LOCATION | 5 | 6 | 7 | 8 |
|-----------|--------|--------|--------|--------|
| SEAT Elev | 994.49 | 994.51 | 994.74 | 994.76 |

LEGEND:

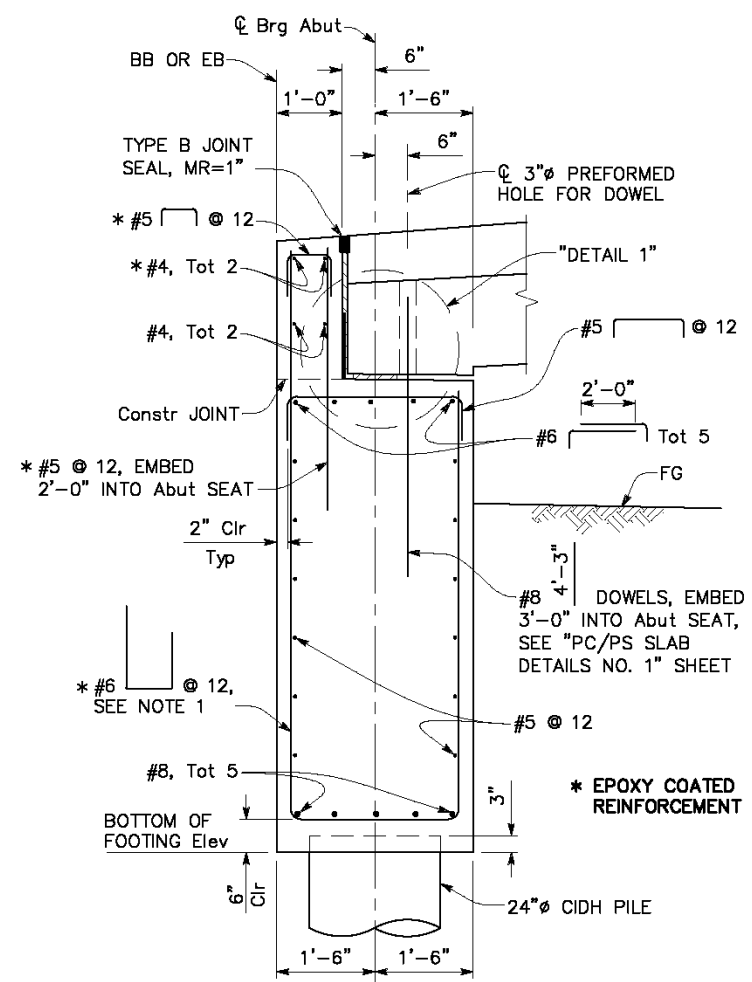
Seat Elevation

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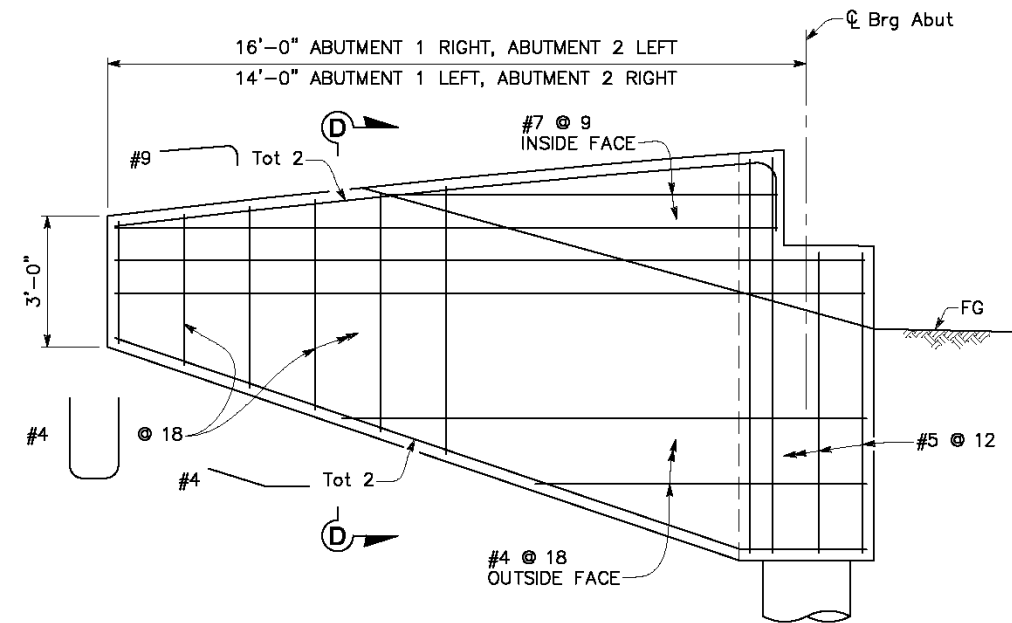


ABUTMENT 2 LAYOUT
SCALE AS SHOWN

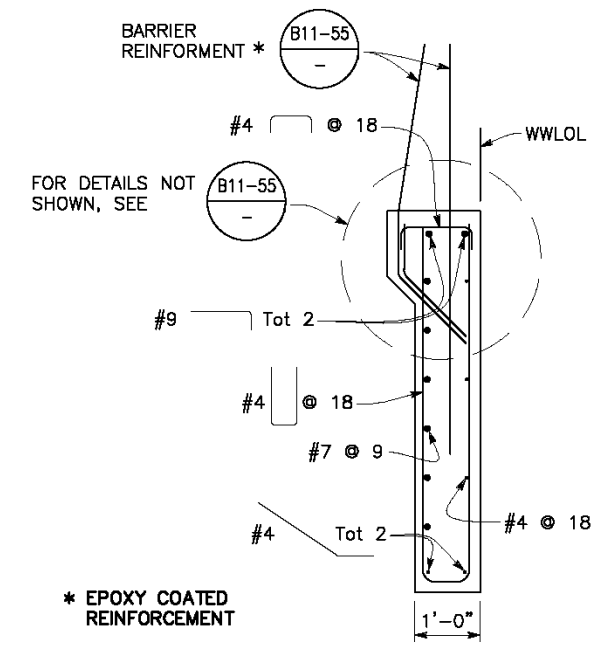
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SECTION A-A
 3/4" = 1'-0"
 ABUTMENT 1 SHOWN, ABUTMENT 2 SIMILAR

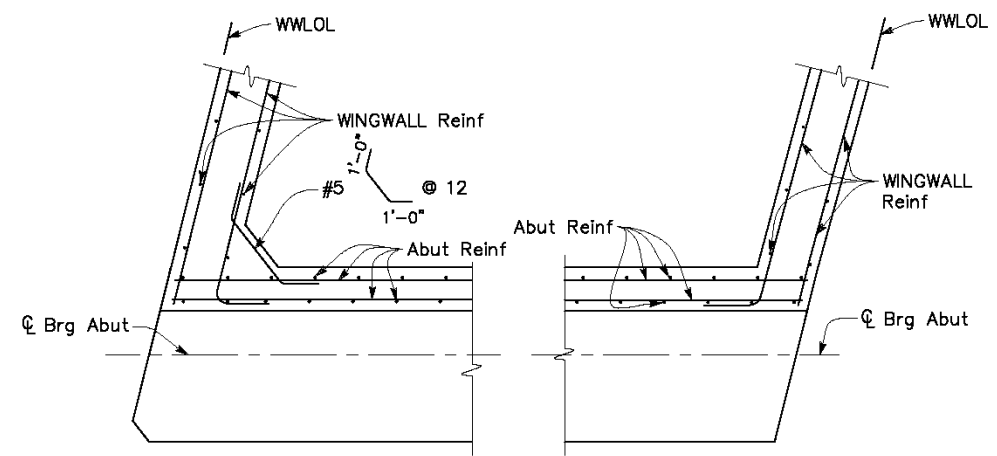


WINGWALL ELEVATION
 1/2" = 1'-0"
 ABUTMENT 1 RIGHT SHOWN, OTHER WALLS ARE SIMILAR
 WATERLINE ALONG SOUTH SIDE NOT SHOWN

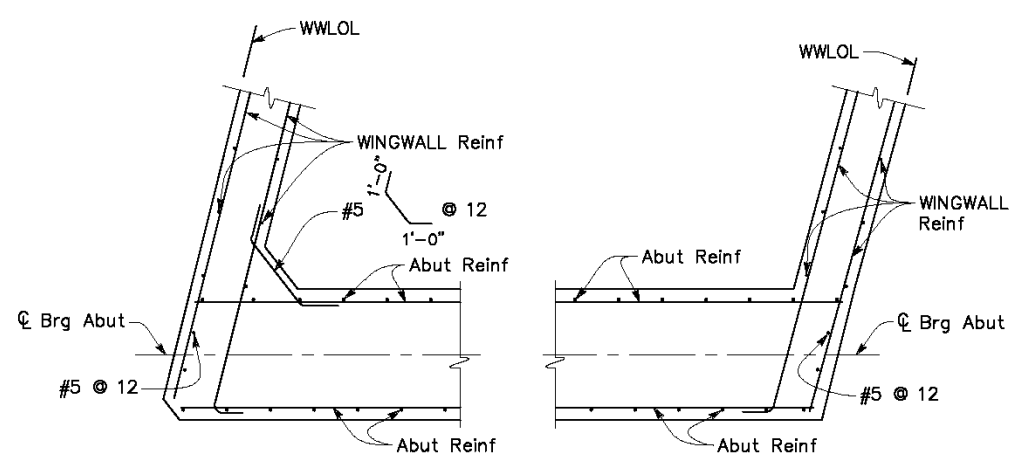


SECTION D-D
 3/4" = 1'-0"

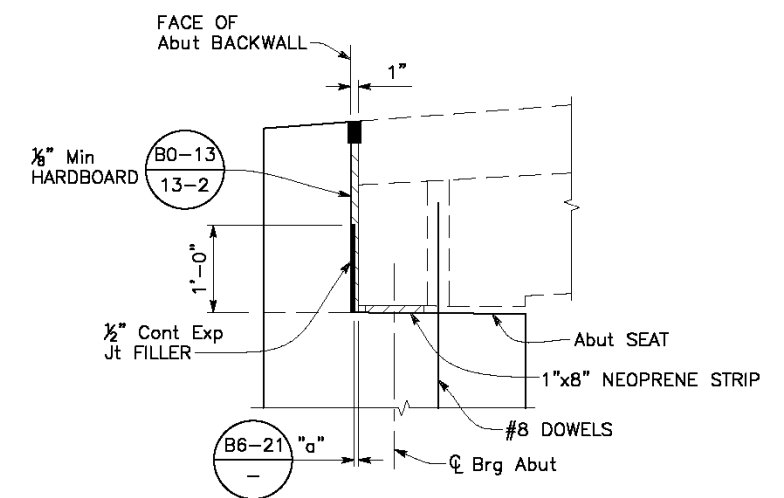
NOTE:
 1. Stirrups must be placed parallel to ϕ Bridge and measured along ϕ Abutment.



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



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

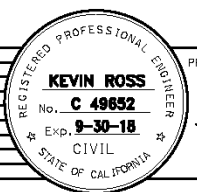


DETAIL 1
 1" = 1'-0"

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

ABUTMENT DETAILS
 SCALE AS SHOWN

| REVISION | NUMBER | DATE | DESCRIPTION | BY |
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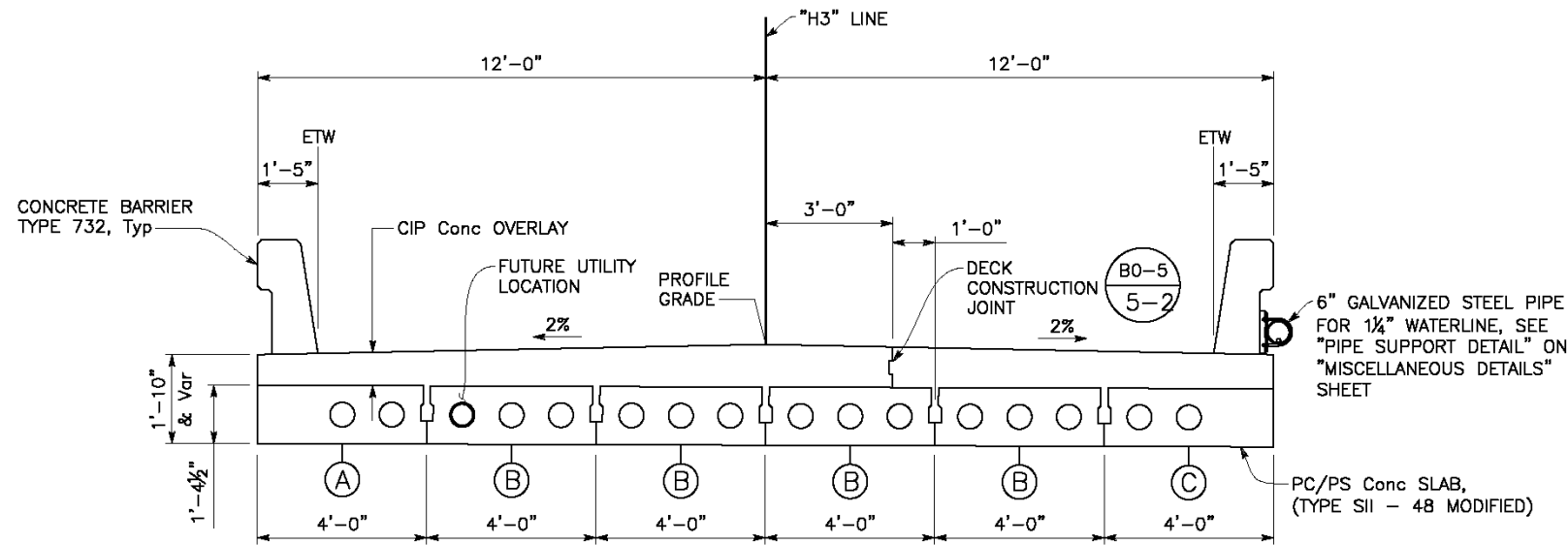
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COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT AGENCY
 TRANSPORTATION DIVISION

HAZEL VALLEY ROAD AT EID CANAL
 BRIDGE REPLACEMENT

SHEET
 S-7
 31 of 41
 I.D. No. 77125



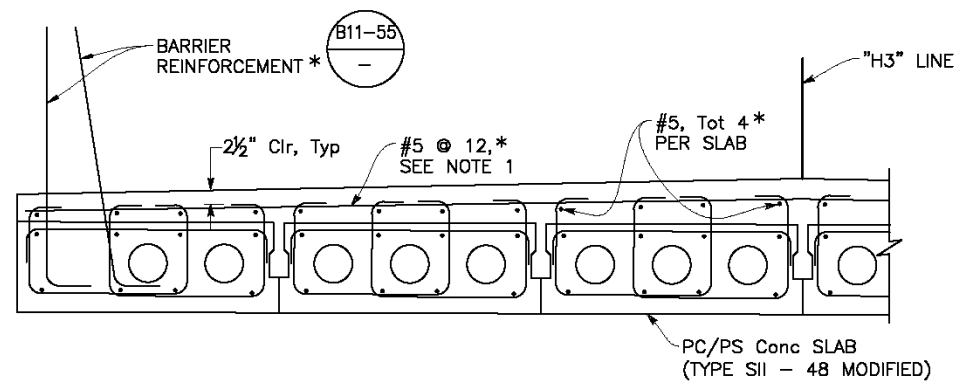
TYPICAL SECTION
1/2" = 1'-0"

LEGEND:

- (A) North Exterior Girder
- (B) Interior Girder
- (C) South Exterior Girder

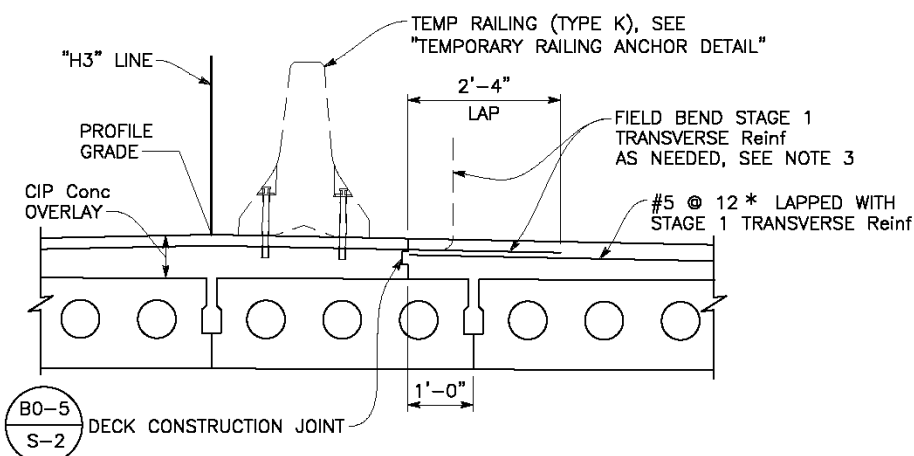
NOTES:

1. Cast-in-Place Concrete Overlay transverse reinforcement must be placed parallel to ϕ Abutment and measured along ϕ Bridge.
2. Record location of deck & stirrup reinforcement prior to placing Cast-in-Place Concrete Overlay so drilling and bonding 1" rods will not conflict with reinforcement.
3. After field bending, repair any coating damage as specified in the Standard Specifications. You must assume all field bent bars will require repair. Costs for repair are included in the price paid per pound of Bar Reinforcing Steel (Epoxy Coated)(Bridge).

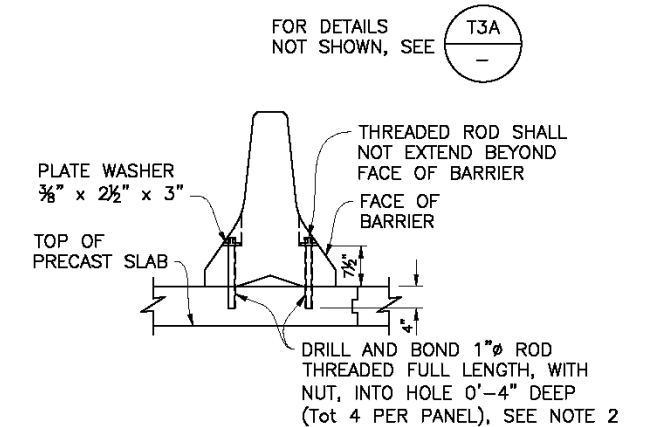


PART TYPICAL SECTION
3/4" = 1'-0"

* EPOXY COATED REINFORCEMENT



PART TYPICAL SECTION AT DECK JOINT
3/4" = 1'-0"
FOR REINFORCEMENT NOT SHOWN, SEE "PART TYPICAL SECTION"



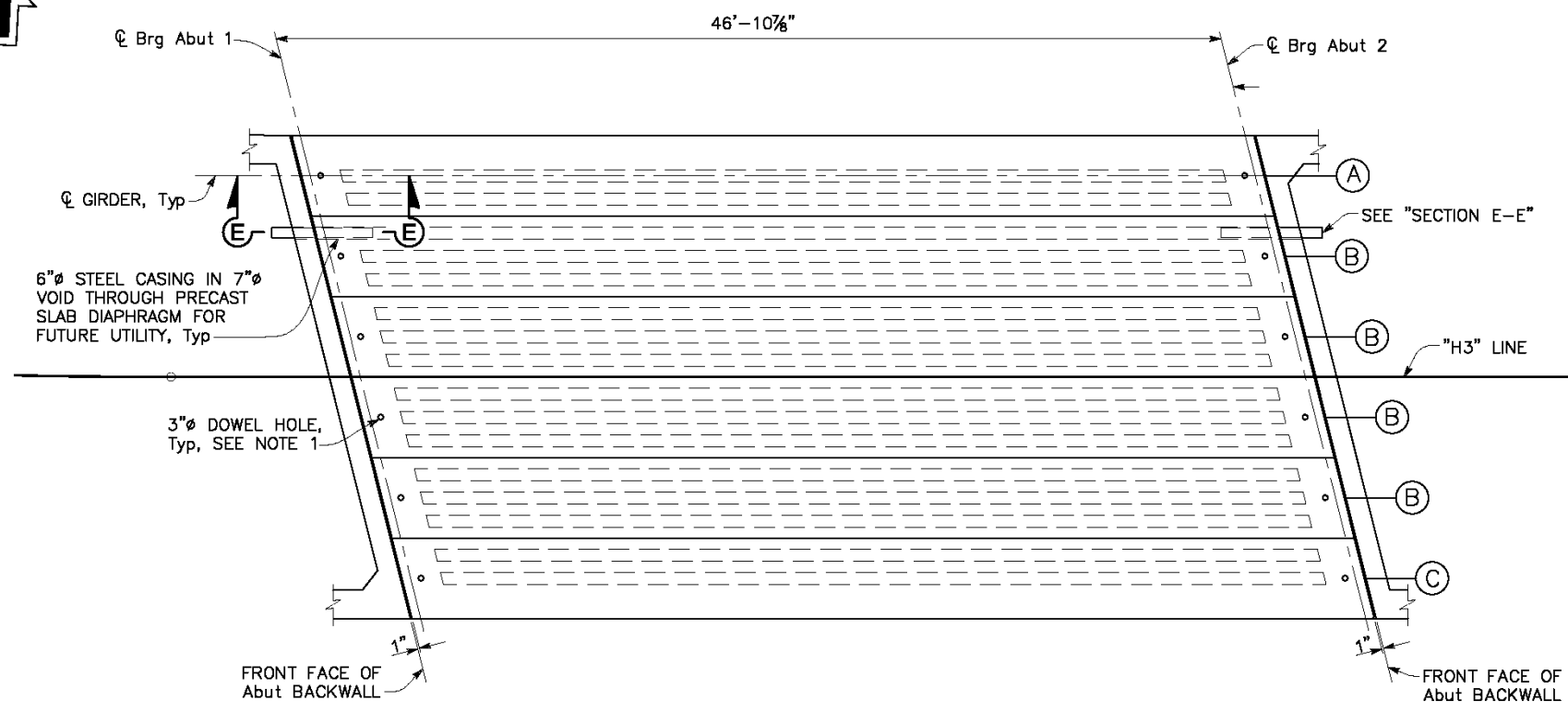
TEMPORARY RAILING ANCHOR DETAIL
3/4" = 1'-0"

FOR DETAILS NOT SHOWN, SEE T3A

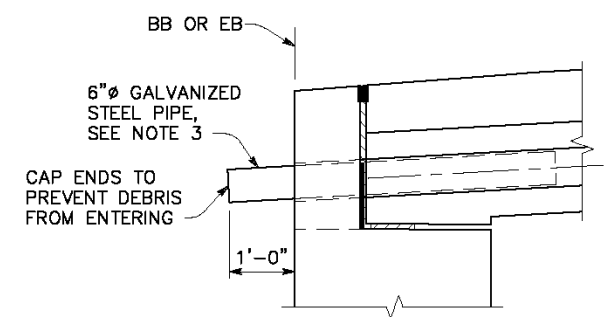
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

TYPICAL SECTION
SCALE AS SHOWN

| | | | | | | | | | |
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PLAN
1/4" = 10'



SECTION E-E
3/4" = 1'-0"
ABUTMENT 1 SHOWN, ABUTMENT 2 SIMILAR

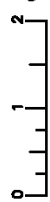
LEGEND:

- (A) North Exterior Girder
- (B) Interior Girder
- (C) South Exterior Girder

NOTES:

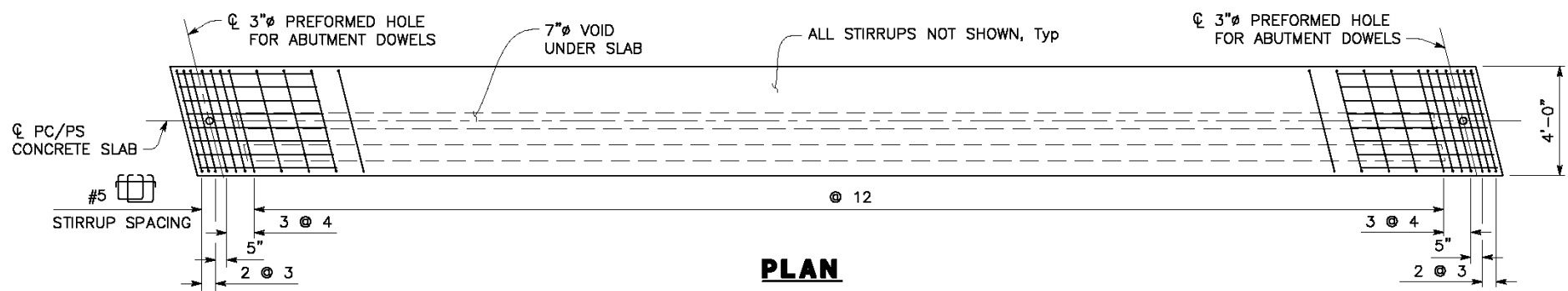
1. Dowel holes to be filled with non-shrink grout. For dowel locations, see "ABUTMENT 1 LAYOUT" & "ABUTMENT 2 LAYOUT" sheets.
2. Use additives in the CIP concrete topping in stage 2 to retard the set of the mix to 3-4 hours to allow the majority of Stage 2 deflection to occur. Retarding agents are not required for Stage 1 CIP concrete topping.
3. Extend 5'-0" long 6"Ø Steel Pipe Casing 1'-0" beyond back face of Abutment Backwall at each Abutment and cap ends to prevent debris from entering casing as shown on this sheet. Steel Pipe Casing to be NPS 6 Schedule 40.

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

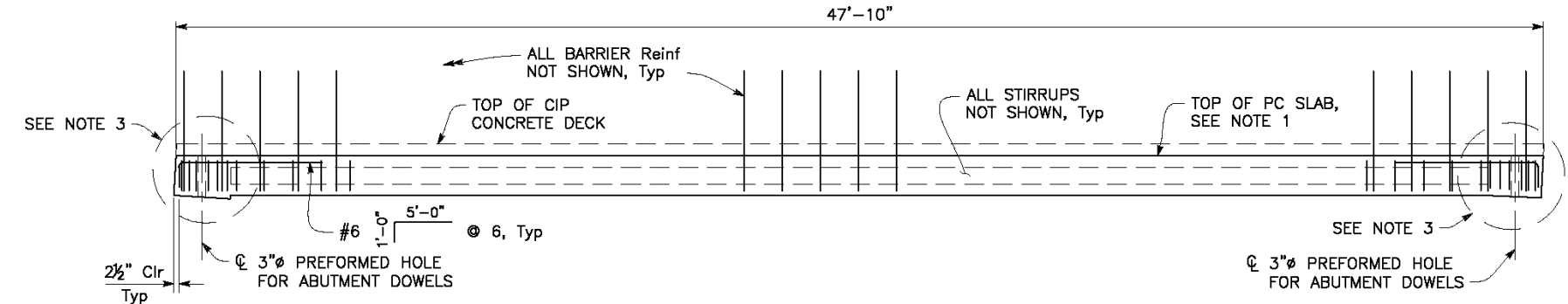


PC/PS SLAB LAYOUT
SCALE AS SHOWN

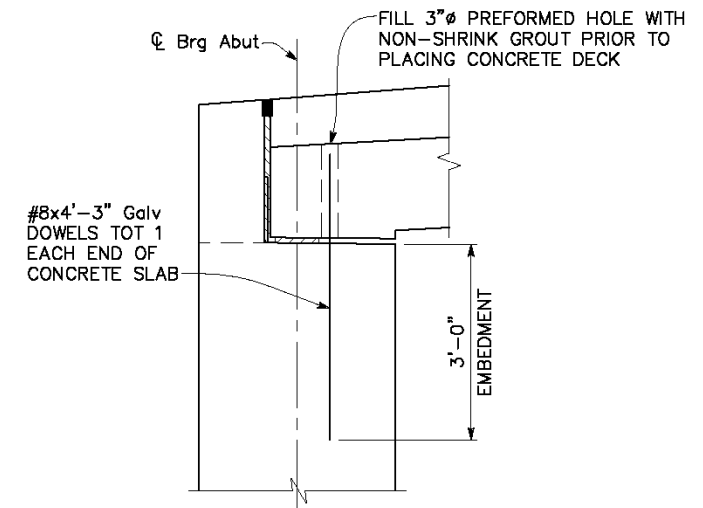
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|--|----------------|--------|-------------|-------------|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--------------|-----------|-------------|----------------|-------------------|--|---|--|---|-----------|----------|----------------|
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| SHEET S-9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 of 41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REG. No. 77125 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



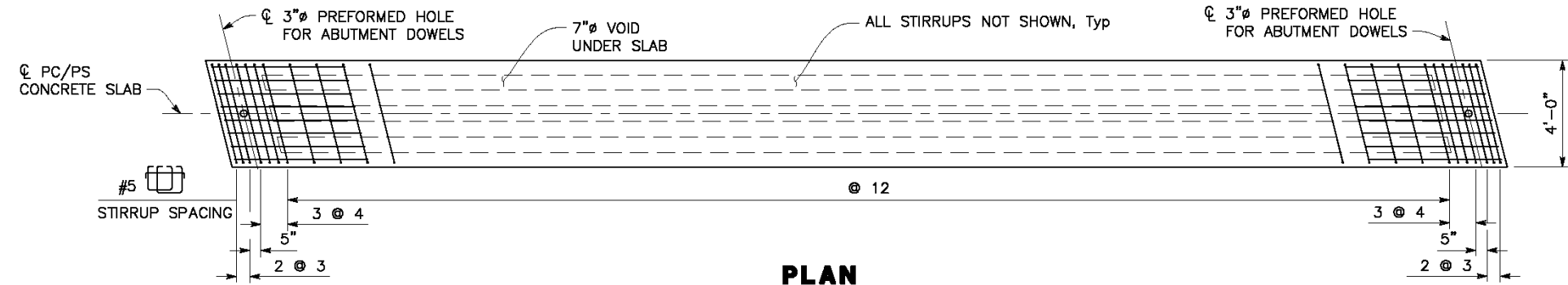
PLAN



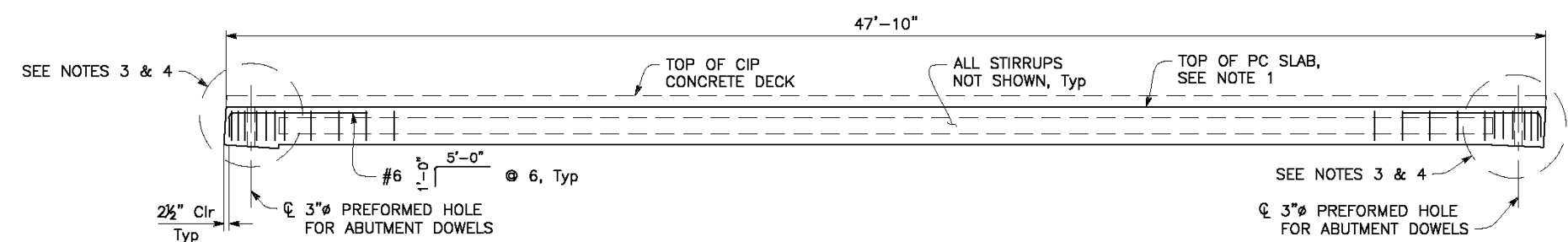
ELEVATION
PRECAST PRESTRESSED CONCRETE SLAB (A & C)
 3/8" = 1'-0"



SUPPORT DETAIL
 3/4" = 1'-0"



PLAN



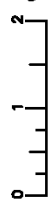
ELEVATION
PRECAST PRESTRESSED CONCRETE SLAB (B) NOTE 4
 3/8" = 1'-0"

NOTES:

1. Finish top of PC/PS Concrete Slab (Type SII - 48 Modified) per Standard Specifications.
2. For details not shown, see "PC/PS SLAB DETAILS NO. 2" and "PC/PS SLAB DETAILS NO. 3" sheets.
3. For end of girder geometry, see "PC/PS SLAB DETAILS NO. 3" sheet.
4. Extend void that contains 6" steel casing to end of girder. Girder B shown is for girders that do not have steel casing.

PC/PS SLAB DETAILS NO. 1
 SCALE AS SHOWN

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES



| REVISION | NUMBER | DATE | DESCRIPTION | BY |
|----------|--------|------|-------------|----|
| | | | | |
| | | | | |
| | | | | |



PREPARED UNDER THE SUPERVISION OF:
Kevin Ross
 REGISTERED CIVIL ENGINEER
 DATE: 03/22/18

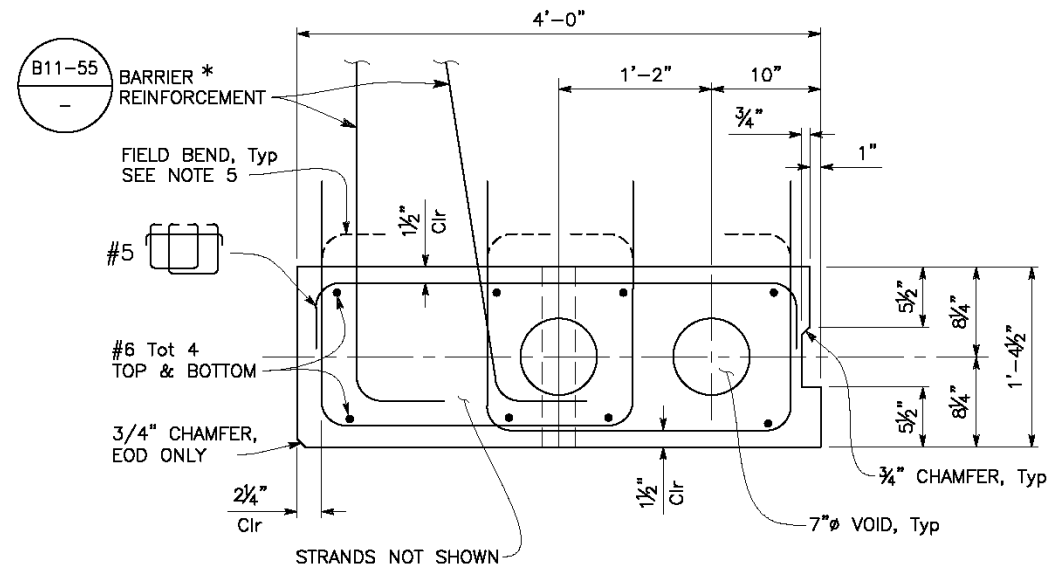
DESIGNED: **CX** DRAWN: **KD**
 CHECKED: **LM** DATE: 03/22/18
 ROAD NUMBER: 2403



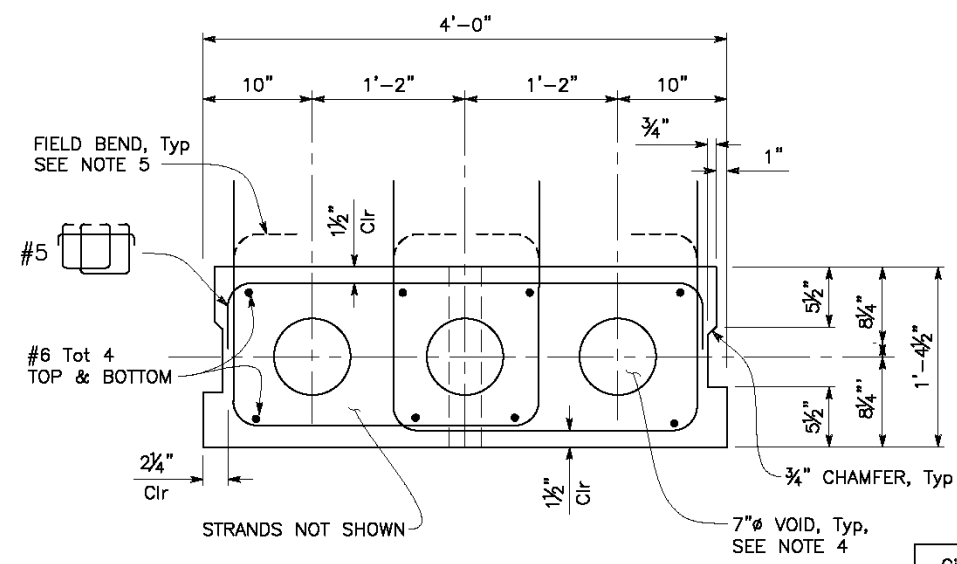
COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT AGENCY
 TRANSPORTATION DIVISION

HAZEL VALLEY ROAD AT EID CANAL
 BRIDGE REPLACEMENT

SHEET
 S-10
 34 of 41
 I.D. No. 77125



TYPICAL SECTION (A) & (C)
1 1/2" = 1'-0"



TYPICAL SECTION (B)
1 1/2" = 1'-0"

PRESTRESSING NOTES:

- 270 ksi Low Relaxation Strands
- Pj is the total Prestress Force required in one Girder Unit at time of stressing prior to release (initial pull corresponding to 0.75fpu).
 - Concrete Strength: f'ci is at time of initial prestressing, f'c is at 28 days.
 - Deflection Components: Informational - to be used in setting Screed Line Elevations
 - Screed line elevations for deck overlay will be determined by the Engineer.
 - Design Details shown are for Pretensioned Units.
 - Contractor may adjust location of Strands authorized by the Engineer.

| Girder Unit | Jacking Force (P), kips | C.G., in* | Concrete Strength (ksi) | | Deflection Components in feet ** | |
|-------------|-------------------------|-----------|-------------------------|-----|----------------------------------|---------|
| | | | f'ci | f'c | Deck DL | Rail DL |
| (A) & (C) | 968 | 3.4" | 5.0 | 6.0 | 0.06' | 0.02' |
| (B) | 791 | 4.5" | 5.0 | 6.0 | 0.06' | 0.01' |

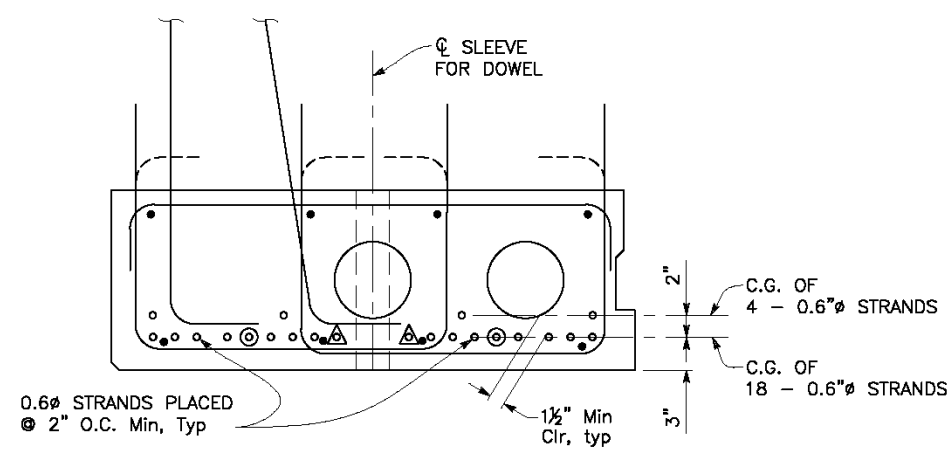
* C.G. is measured from bottom of slab
** Instantaneous deflection, unfactored

LEGEND:

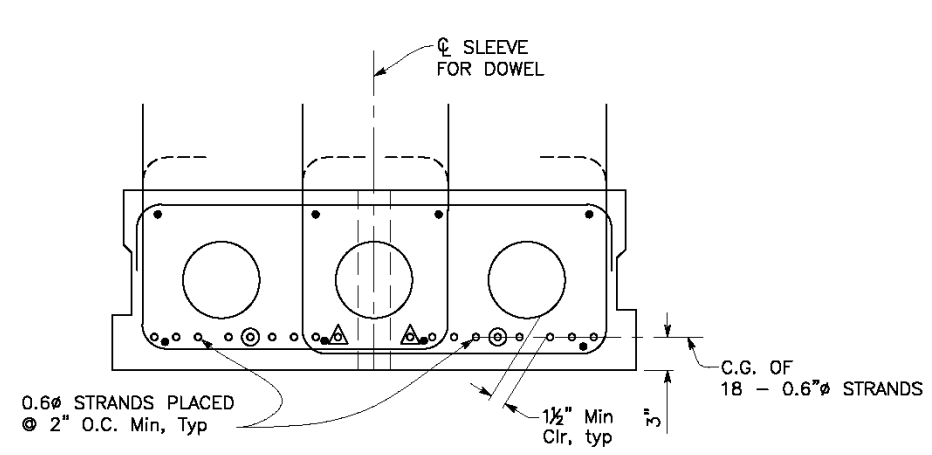
- ▲ Denotes Strand to be debonded 6' each end.
- ⊙ Denotes Strand to be debonded 3' each end.
- Denotes Strand
- Denotes Reinforcement

NOTES:

- Strands should be placed symmetrically about C of slab.
- Strand spacing shall not be less than 2" O/C.
- The Contractor is responsible for managing differential deflection between girders. Place temporary weight on stage 2 precast slab units as needed to reduce camber difference between precast slab units.
- Extend void that contains steel casing to the end of girder.
- After field bending, repair any coating damage as specified in the Standard Specifications. You must assume all field bent bars will require repair. Costs for repair are included in the price paid per square foot for furnish Precast/Prestressed Concrete Slab (Type SII - 48 Modified).



STRAND PATTERN DETAILS (A) & (C)
1 1/2" = 1'-0"



STRAND PATTERN DETAILS (B)
1 1/2" = 1'-0"

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES



| REVISION | NUMBER | DATE | DESCRIPTION | BY |
|----------|--------|------|-------------|----|
| | | | | |

REGISTERED PROFESSIONAL ENGINEER
KEVIN ROSS
No. C 49852
Exp. 9-30-18
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF:
Kevin Ross
REGISTERED CIVIL ENGINEER
03/22/18
DATE:

| | |
|-------------------|----------------|
| DESIGNED: GK | DRAWN: KD |
| CHECKED: LM | DATE: 03/22/18 |
| ROAD NUMBER: 2403 | |

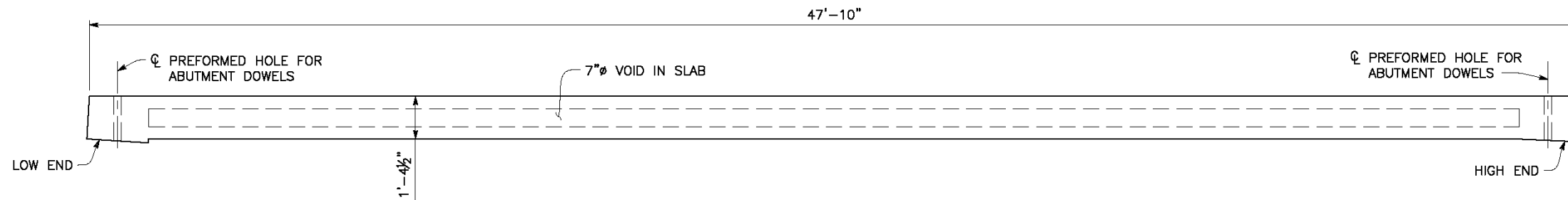


COUNTY OF EL DORADO
COMMUNITY DEVELOPMENT AGENCY
TRANSPORTATION DIVISION

PC/PS SLAB DETAILS NO. 2
SCALE AS SHOWN

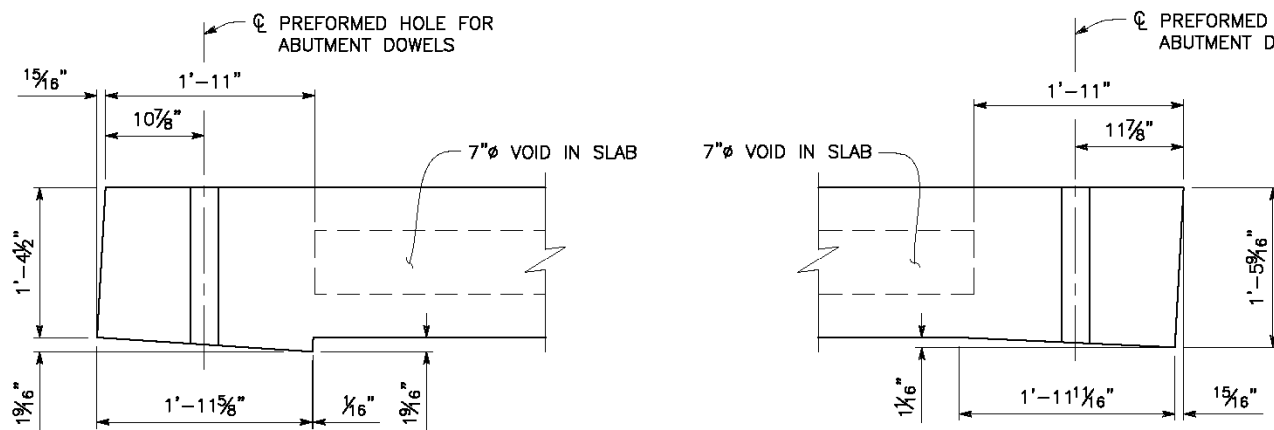
HAZEL VALLEY ROAD AT EID CANAL
BRIDGE REPLACEMENT

SHEET S-11
35 OF 41
W.D. No. 77125



GIRDER - ELEVATION

1/2" = 1'-0"



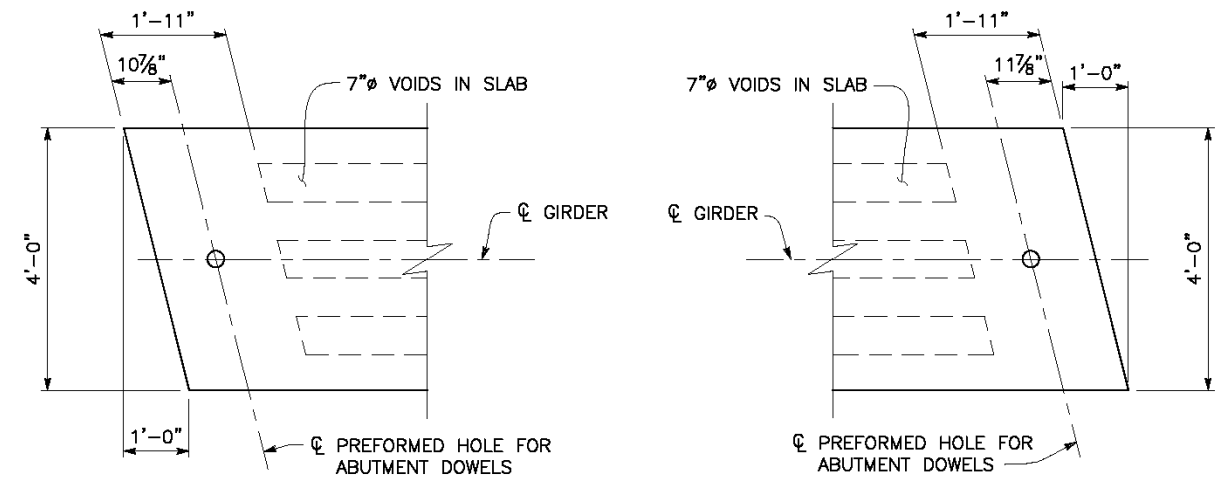
LOW END

HIGH END

PART GIRDER - ELEVATION

1/2" = 1'-0"

INTERIOR SLAB WITHOUT STEEL PIPE CASING SHOWN, OTHER SLABS SIMILAR



LOW END

HIGH END

PART GIRDER - PLAN

3/4" = 1'-0"

INTERIOR SLAB WITHOUT STEEL PIPE CASING SHOWN, OTHER SLABS SIMILAR

NOTES:

1. All Slab Units to have the same blockout.
2. Dimensions shown are measured parallel to ϕ Girder.
3. Dimensions shown are based on casting Concrete Slab flat. Girder slope in final position is 5.5% upward.

PC/PS SLAB DETAILS NO. 3
SCALE AS SHOWN

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

| REVISION | NUMBER | DATE | DESCRIPTION | BY |
|----------|--------|------|-------------|----|
| | | | | |
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PREPARED UNDER THE SUPERVISION OF:
Kevin Ross
REGISTERED CIVIL ENGINEER
DATE: 03/22/18

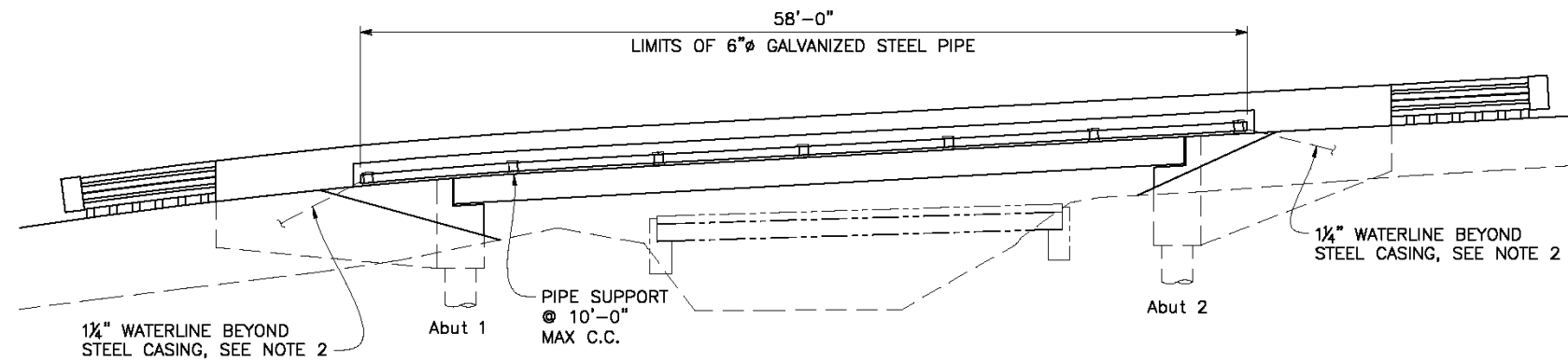
DESIGNED: CX DRAWN: KD
CHECKED: LM DATE: 03/22/18
ROAD NUMBER: 2403



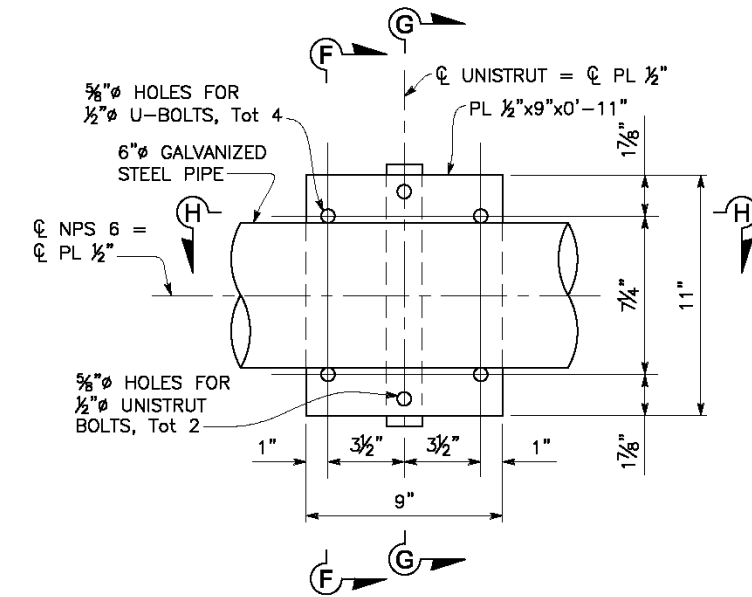
COUNTY OF EL DORADO
COMMUNITY DEVELOPMENT AGENCY
TRANSPORTATION DIVISION

HAZEL VALLEY ROAD AT EID CANAL
BRIDGE REPLACEMENT

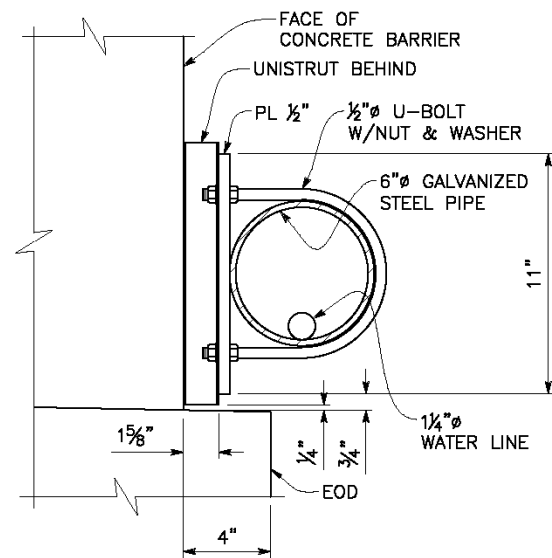
SHEET
S-12
36 of 41
SHEET NO. 77125



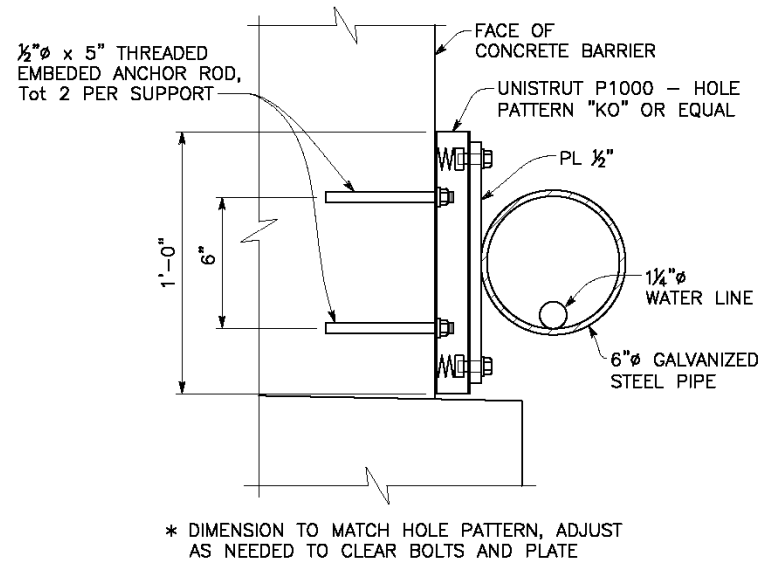
PIPE SUPPORT - ELEVATION
NO SCALE



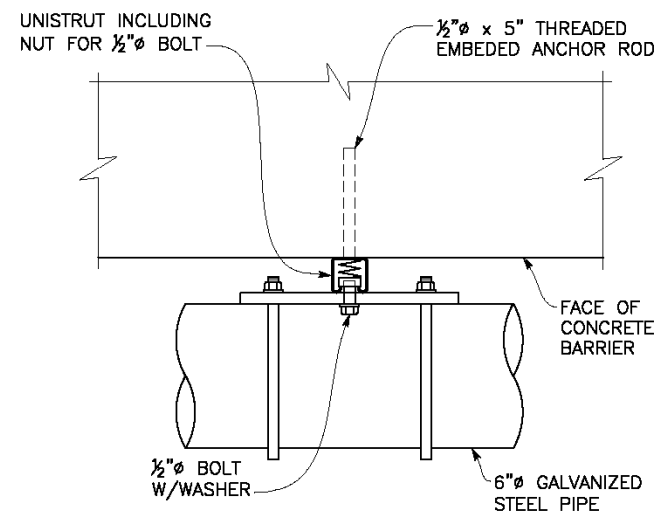
PIPE SUPPORT DETAIL
3" = 1'-0"



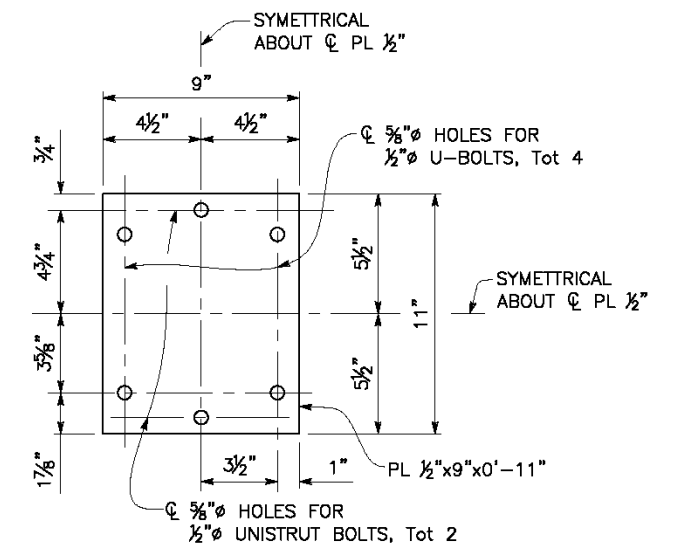
SECTION F-F
3" = 1'-0"



SECTION G-G
3" = 1'-0"



SECTION H-H
3" = 1'-0"



PIPE SUPPORT CONNECTION PLATE
3" = 1'-0"

NOTES:

1. All plates, unistruts, bolts, nuts and washers must be galvanized.
2. For layout of 1 1/4 inch PVC Waterline beyond bridge, see "Waterline Relocation Plans".

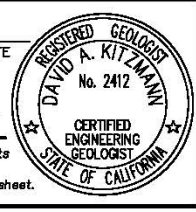
FOR REDUCED PLANS
2 ORIGINAL SCALE IS IN INCHES
1
0

MISCELLANEOUS DETAILS
SCALE AS SHOWN

| | | | | | | |
|----------|---|--|----|---|--|--|
| REVISION | DESIGNED: | DRAWN: | | COUNTY OF EL DORADO COMMUNITY DEVELOPMENT AGENCY TRANSPORTATION DIVISION | HAZEL VALLEY ROAD AT EID CANAL BRIDGE REPLACEMENT | SHEET S-13 37 OF 41 W.D. No. 77125 |
| | KEVIN ROSS No. C 49852 Exp. 9-30-18 CIVIL STATE OF CALIFORNIA | PREPARED UNDER THE SUPERVISION OF: REGISTERED CIVIL ENGINEER 03/22/18 DATE: | | | | |
| NUMBER | DATE | DESCRIPTION | BY | | | |

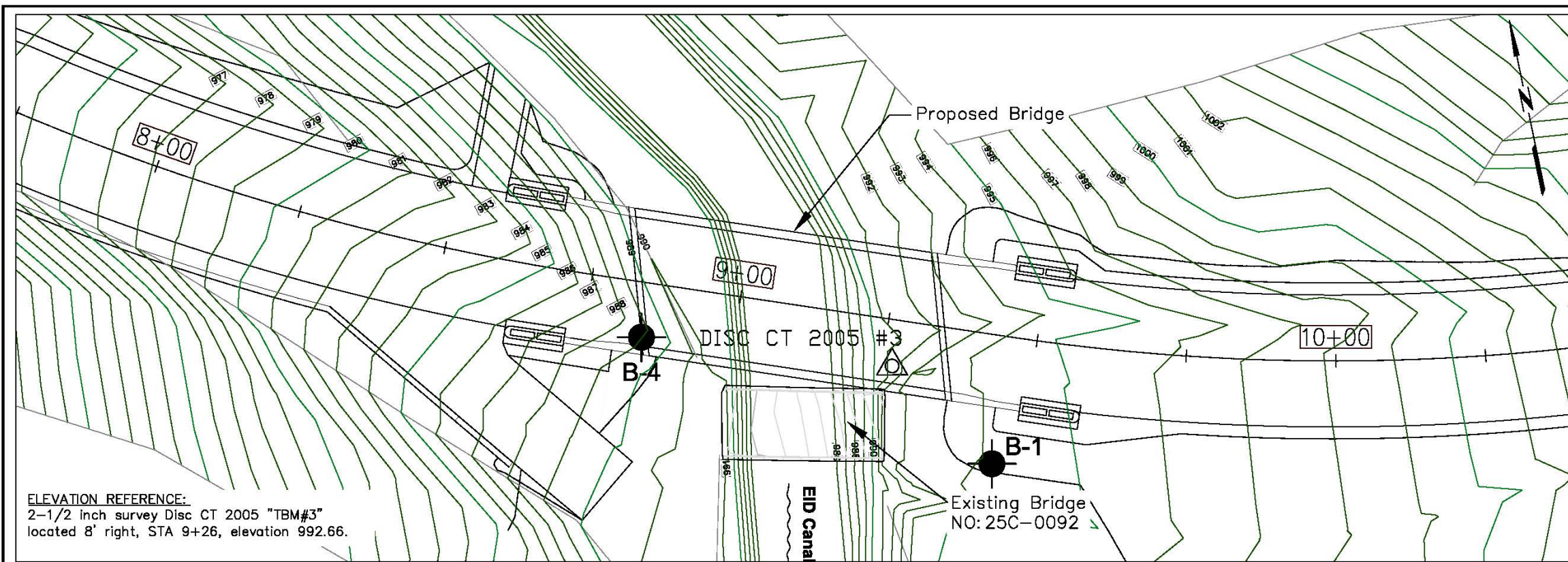
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 03 | ED | C.R. | | 1 | 4 |

CERTIFIED ENGINEERING GEOLOGIST DATE _____
 APPROVAL DATE _____
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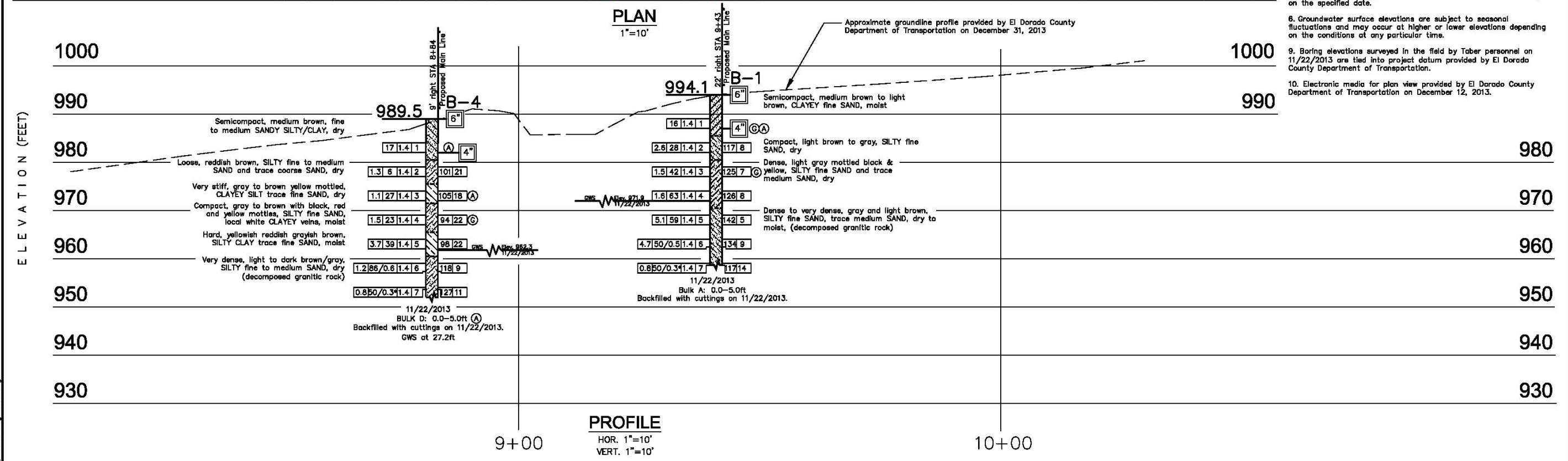
WRECO
 8331 SIERRA COLLEGE BLVD.
 ROSEVILLE, CALIFORNIA 95661 JOB NO: P15054
 County of El Dorado
 Community Development Agency Transportation Division
 2850 Fairlane Court
 Placerville, CA 95667

- NOTES:
- Field classification of soils was in accordance with ASTM D 2488-10 "Description and Identification of Soils (Visual-Manual Procedure)".
 - Standard Penetration tests were performed in accordance with ASTM D 1586-10 using a hammer operated with an automated drop system. Drill rods were 1 5/8-inch diameter "A"-rods; sampler was driven with brass liners.
 - The length of each sampled interval is shown graphically on the boring log. Whole number blow counts ("N") represent the "standard penetration resistance" interval in accordance with ASTM D1586-10. Where less than 1 foot of penetration is achieved, the blow count shown is for that fraction of the "standard penetration resistance" interval actually penetrated.
 - SPT hammer energy measurements were not taken. Hammer energy ratio (ETR) measurements indicate an ETR = 87% on 6/18/2012.
 - Consistency of soils shown in () where estimated.
 - Groundwater surface (GWS) elevations in the borings indicated on the Log of Test Boring Sheets reflect the fluid level in the borings on the specified date.
 - Groundwater surface elevations are subject to seasonal fluctuations and may occur at higher or lower elevations depending on the conditions at any particular time.
 - Boring elevations surveyed in the field by Taber personnel on 11/22/2013 are tied into project datum provided by El Dorado County Department of Transportation.
 - Electronic media for plan view provided by El Dorado County Department of Transportation on December 12, 2013.



ELEVATION REFERENCE:
 2-1/2 inch survey Disc CT 2005 "TBM#3"
 located 8' right, STA 9+26, elevation 992.66.

PLAN
 1"=10'



PROFILE
 HOR. 1"=10'
 VERT. 1"=10'

8C
 11
 6/16/2016
 106 LOTB_recover.dwg 2010.dwg

| | | | | | | | | | |
|---|--|---|--|--|--|---|--|--|--|
| ENGINEERING SERVICES | | GEOTECHNICAL SERVICES | | PREPARED FOR THE EL DORADO COUNTY COMMUNITY DEVELOPMENT AGENCY | | BRIDGE NO. 25C-0140 POST MILE C.R. | | Hazel Valley Road at EID Canal Bridge Replacement | |
| FUNCTIONAL SUPERVISOR | | DRAWN BY: X. Vang CHECKED BY: D. Kitzmann | | FIELD INVESTIGATION BY: A. Kahn | | DATE: November 2013 | | PROJECT ENGINEER | |
| OCS CIVIL LOG OF TEST BORINGS SHEET | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | 0 1 2 3 | | CU XXXXXX EA XXXXXX | | DISREGARD PRINTS BEARING EARLIER REVISION DATES | |
| REVISION DATES (PRELIMINARY STAGE ONLY) | | | | | | | | SHEET 37 OF 40 | |

REFERENCE: CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL, (2010)

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 03 | ED | C.R. | | 2 | 4 |

| CEMENTATION | |
|-------------|---|
| Description | Criteria |
| Weak | Crumbles or breaks with handling or little finger pressure. |
| Moderate | Crumbles or breaks with considerable finger pressure. |
| Strong | Will not crumble or break with finger pressure. |

CERTIFIED ENGINEERING GEOLOGIST DATE _____

APPROVAL DATE _____

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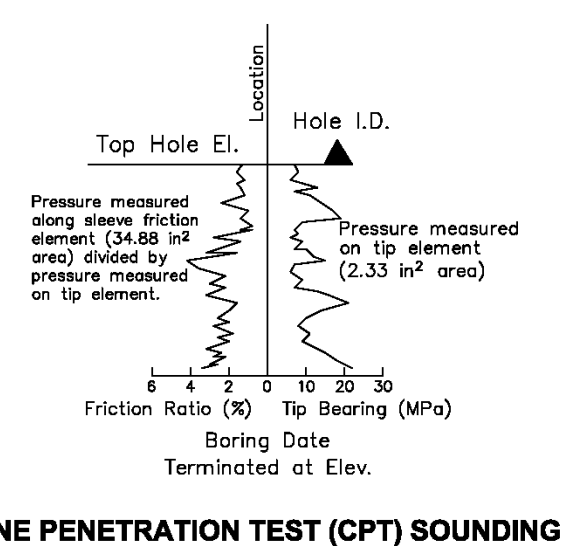
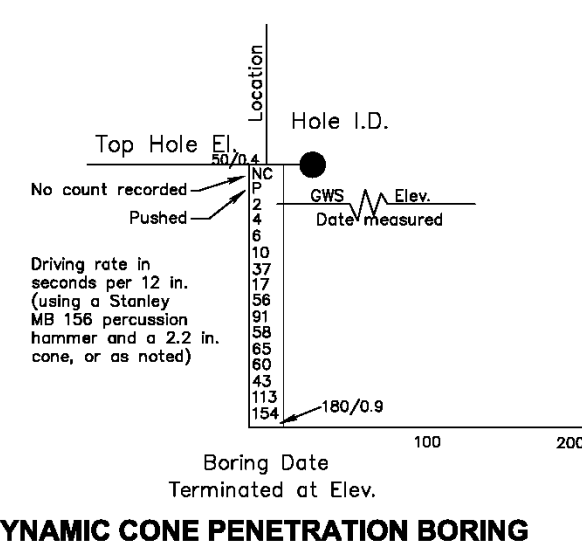
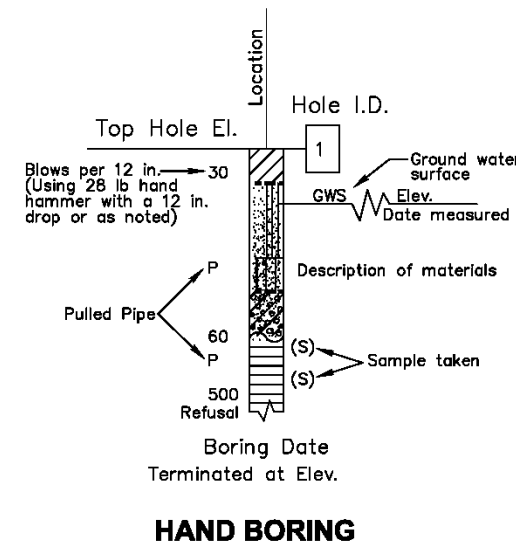
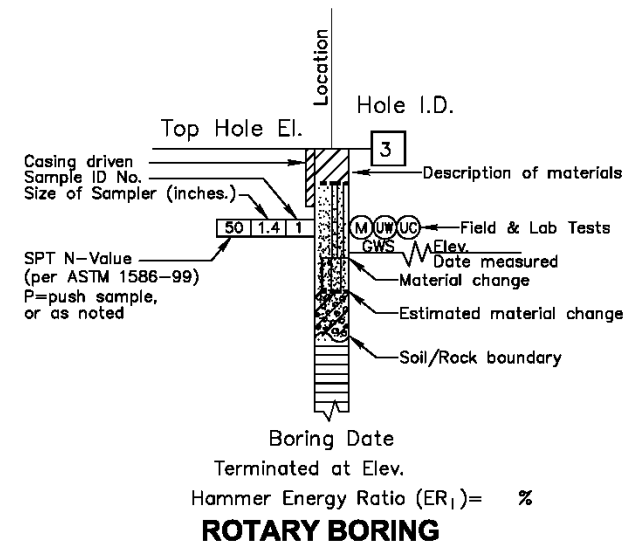
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ROSEVILLE, CALIFORNIA 95661 JOB NO: P15054

County of El Dorado
Community Development Agency Transportation Division
2850 Fairlane Court
Placerville, CA 95667

| BOREHOLE IDENTIFICATION | | |
|-------------------------|-----------|--|
| Symbol | Hole Type | Description |
| | A | Auger Boring (hollow or solid stem bucket) |
| | R | Rotary drilled boring (conventional) |
| | RW | Rotary drilled with self-casing wire-line |
| | RC | Rotary core with continuously-sampled, self-casing wire-line |
| | P | Rotary percussion boring (air) |
| | R | Rotary drilled diamond core |
| | HD | Hand driven (1-inch soil tube) |
| | HA | Hand Auger |
| | D | Dynamic Cone Penetration Boring |
| | CPT | Cone Penetration Test (ASTM D 5778) |
| | O | Other (note on LOTB) |

NOTE: Size In Inches.

| CONSISTENCY OF COHESIVE SOILS | | | | |
|-------------------------------|----------------------|--|--------------------------------|-----------------------------------|
| Description | Shear Strength (tsf) | Pocket Penetrometer Measurement, PP, (tsf) | Torvane Measurement, TV, (tsf) | Vane Shear measurement, VS, (tsf) |
| Very Soft | Less than 0.12 | Less than 0.25 | Less than 0.12 | Less than 0.12 |
| Soft | 0.12 to 0.25 | 0.25 to 0.50 | 0.12 to 0.25 | 0.12 to 0.25 |
| Medium Stiff | 0.25 to 0.5 | 0.50 to 1.0 | 0.25 to 0.50 | 0.25 to 0.5 |
| Stiff | 0.5 to 1 | 1 to 2 | 0.50 to 1.0 | 0.5 to 1 |
| Very Stiff | 1 to 2 | 2 to 4 | 1.0 to 2.0 | 1 to 2 |
| Hard | Greater than 2 | Greater than 4.0 | Greater than 2.0 | Greater than 2 |



SOIL LEGEND

BRIDGE NO. 25C-0140
POST MILE C.R.

Hazel Valley Road at EID Canal Bridge Replacement

LOG OF TEST BORINGS 2 OF 4

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 38 OF 40

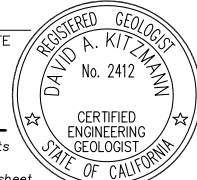
36 11/19/2016 9/19/2016

| | | | | | | |
|-----------------------|-------------------------|---------------------------------|---------------------|---|------------------|------------------------|
| ENGINEERING SERVICES | | GEOTECHNICAL SERVICES | | PREPARED FOR THE EL DORADO COUNTY COMMUNITY DEVELOPMENT AGENCY | PROJECT ENGINEER | CU XXXXXX EA XXXXXX |
| FUNCTIONAL SUPERVISOR | DRAWN BY: X. Vang | FIELD INVESTIGATION BY: A. Kahn | DATE: November 2013 | | | |
| | CHECKED BY: D. Kitzmann | | | | | |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 03 | ED | C.R. | | 3 | 4 |

REFERENCE: CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL, (2010)

CERTIFIED ENGINEERING GEOLOGIST DATE _____
 APPROVAL DATE _____
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 County of El Dorado
 Community Development Agency Transportation Division
 2850 Fairlane Court
 Placerville, CA 95667

| GROUP SYMBOLS AND NAMES | | | | |
|-------------------------|--|----------------|---------------------------------------|-----------------------------|
| Graphic/Symbol | Group Names | Graphic/Symbol | Group Names | |
| | GW Well-graded GRAVEL | | CL Lean CLAY | |
| | Well-graded GRAVEL with SAND | | Lean CLAY with SAND | |
| | GP Poorly-graded GRAVEL | | CL SANDY lean CLAY with GRAVEL | |
| | Well-graded GRAVEL with SAND | | GRAVELLY lean CLAY | |
| | GW-GM Well-graded GRAVEL with SILT | | | ML SILT |
| | Well-graded GRAVEL with SILT and SAND | | | SILT with SAND |
| | GW-GC Well-graded GRAVEL with CLAY (or SILTY CLAY) | | | OL ORGANIC lean Clay |
| | Well-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND) | | | ORGANIC lean Clay with SAND |
| | GP-GM Poorly-graded GRAVEL with SILT | | MH SANDY elastic SILT | |
| | Poorly-graded GRAVEL with SILT and SAND | | SANDY elastic SILT with GRAVEL | |
| | GP-GC Poorly-graded GRAVEL with CLAY (or SILTY CLAY) | | OH SANDY ORGANIC fat CLAY | |
| | Poorly-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND) | | GRAVELLY ORGANIC fat CLAY with GRAVEL | |
| | GM SILTY GRAVEL | | OH/OL ORGANIC SOIL | |
| | SILTY GRAVEL with SAND | | ORGANIC SOIL with SAND | |
| | GC CLAYEY GRAVEL | | OH/OL ORGANIC SOIL with GRAVEL | |
| | CLAYEY GRAVEL with SAND | | SANDY ORGANIC SOIL | |
| | GC-GM SILTY, CLAYEY GRAVEL | | OH/OL SANDY ORGANIC SOIL with GRAVEL | |
| | SILTY, CLAYEY GRAVEL with SAND | | GRAVELLY ORGANIC SOIL | |
| | SW Well-graded SAND | | OH/OL GRAVELLY ORGANIC SOIL with SAND | |
| | Well-graded SAND with GRAVEL | | GRAVELLY ORGANIC SOIL with SAND | |
| | SP Poorly-graded SAND | | OH/OL ORGANIC SOIL with SAND | |
| | Poorly-graded SAND with GRAVEL | | ORGANIC SOIL with GRAVEL | |
| | SW-SM Well-graded SAND with SILT | | OH/OL SANDY ORGANIC SOIL | |
| | Well-graded SAND with SILT and GRAVEL | | SANDY ORGANIC SOIL with GRAVEL | |
| | SW-SC Well-graded SAND with CLAY (or SILTY CLAY) | | OH/OL GRAVELLY ORGANIC SOIL | |
| | Well-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL) | | GRAVELLY ORGANIC SOIL with SAND | |
| | SP-SM Poorly-graded SAND with SILT | | OH/OL ORGANIC SOIL with SAND | |
| | Poorly-graded SAND with SILT and GRAVEL | | ORGANIC SOIL with GRAVEL | |
| | SP-SC Poorly-graded SAND with CLAY (or SILTY CLAY) | | OH/OL SANDY ORGANIC SOIL | |
| | Poorly-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL) | | SANDY ORGANIC SOIL with GRAVEL | |
| | SM SILTY SAND | | OH/OL GRAVELLY ORGANIC SOIL | |
| | SILTY SAND with GRAVEL | | GRAVELLY ORGANIC SOIL with SAND | |
| | SC CLAYEY SAND | | OH/OL ORGANIC SOIL | |
| | CLAYEY SAND with GRAVEL | | ORGANIC SOIL with GRAVEL | |
| | SC-SM SILTY, CLAYEY SAND | | OH/OL SANDY ORGANIC SOIL | |
| | SILTY, CLAYEY SAND with GRAVEL | | SANDY ORGANIC SOIL with GRAVEL | |
| | PT PEAT | | OH/OL GRAVELLY ORGANIC SOIL | |
| | COBBLES | | GRAVELLY ORGANIC SOIL with SAND | |
| | COBBLES and BOULDERS | | OH/OL SANDY ORGANIC SOIL | |
| | BOULDERS | | GRAVELLY ORGANIC SOIL with SAND | |

| FIELD AND LABORATORY TESTING | |
|------------------------------|--|
| (C) | Consolidation (ASTM D 2435) |
| (CL) | Collapse Potential (ASTM D 5333) |
| (CP) | Compaction Curve (CTM 216) |
| (CR) | Corrosivity Testing (CTM 643, CTM 422, CTM 417) |
| (CU) | Consolidated Undrained Triaxial (ASTM D 4767) |
| (DS) | Direct Shear (ASTM D 3080) |
| (EI) | Expansion Index (ASTM D 4829) |
| (M) | Moisture Content (ASTM D 2216) |
| (OC) | Organic Content-% (ASTM D 2974) |
| (P) | Permeability (CTM 220) |
| (PA) | Particle Size Analysis (ASTM D 422) |
| (PI) | Plasticity Index (AASHTO T 90) Liquid Limit (AASHTO T 89) |
| (PL) | Point Load Index (ASTM D 5731) |
| (PM) | Pressure Meter |
| (R) | R-Value (CTM 301) |
| (SE) | Sand Equivalent (CTM 217) |
| (SG) | Specific Gravity (AASHTO T 100) |
| (SL) | Shrinkage Limit (ASTM D 427) |
| (SW) | Swell Potential (ASTM D 4546) |
| (UC) | Unconfined Compression-Soil (ASTM D 2166) Unconfined Compression-Rock (ASTM D 2938) |
| (UU) | Unconsolidated Undrained Triaxial (ASTM D 2850) |
| (UW) | Unit Weight (ASTM D 2937) |

| APPARENT DENSITY OF COHESIONLESS SOILS | |
|--|---|
| Description | SPT N ₆₀ -Value (Blows / 12 in.) |
| Very Loose | 0 - 5 |
| Loose | 5 - 10 |
| Medium Dense | 11 - 30 |
| Dense | 31 - 50 |
| Very Dense | Greater than 50 |

| MOISTURE | |
|-------------|-------------------------------------|
| Description | Criteria |
| Dry | No discernable moisture |
| Moist | Moisture present, but no free water |
| Wet | Visible free water |

| PERCENT OR PROPORTION OF SOILS | |
|--------------------------------|--|
| Description | Criteria |
| Trace | Particles are present but estimated to be less than 5% |
| Few | 5% to 10% |
| Little | 15% to 25% |
| Some | 30% to 45% |
| Mostly | 50% to 100% |

| PARTICLE SIZE | | |
|---------------|-----------------|--------------|
| Description | Size (in.) | |
| Boulder | Greater than 12 | |
| Cobble | 3 - 12 | |
| Gravel | Coarse | 3/4 - 3 |
| | Fine | 1/5 - 3/4 |
| Sand | Coarse | 1/16 - 1/5 |
| | Medium | 1/64 - 1/16 |
| | Fine | 1/300 - 1/64 |
| Silt and Clay | Less than 1/300 | |

| ENGINEERING SERVICES | | GEOTECHNICAL SERVICES | | PREPARED FOR THE | | BRIDGE NO. | |
|-------------------------------------|-------------------|--|---------------------|------------------------------|------------------|---|---|
| FUNCTIONAL SUPERVISOR | DRAWN BY: X. Vang | FIELD INVESTIGATION BY: A. Kahn | DATE: November 2013 | EL DORADO COUNTY | PROJECT ENGINEER | 25C-0140 | Hazel Valley Road at EID Canal Bridge Replacement |
| CHECKED BY: D. Kitzmann | | | | COMMUNITY DEVELOPMENT AGENCY | | POST MILE | |
| | | | | | | C.R. | |
| OGS CIVIL LOG OF TEST BORINGS SHEET | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | CU XXXXXX | EA XXXXXX | DISREGARD PRINTS BEARING EARLIER REVISION DATES | |
| | | | | | | REVISION DATES (PRELIMINARY STAGE ONLY) | |
| | | | | | | SHEET 40 OF 41 | |

6/16/2016 T06 LOTB_recover.dwg 2010.dwg

USERNAME => \$USER

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 03 | ED | C.R. | | 4 | 4 |

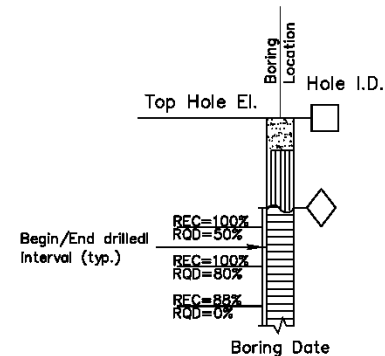
REFERENCE: CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL, (2010)

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

$$REC = \frac{\sum \text{Length of the recovered core pieces (inches)}}{\text{Total length of core run (inches)}} \times 100\%$$

$$RQD = \frac{\sum \text{Length of the intact core pieces } \geq 4 \text{ in.}}{\text{Total length of core run (inches)}} \times 100\%$$

RQD* Indicates soundness criteria not met.



BEDDING SPACING

| Description | Thickness / Spacing |
|---------------------|---------------------|
| Massive | Greater than 10 ft |
| Very thickly bedded | 3 ft - 10 ft |
| Thickly bedded | 1 ft - 3 ft |
| Moderately bedded | 4 in. - 1 ft |
| Thinly bedded | 1 in. - 4 in. |
| Very thinly bedded | 1/4 in. - 1 in. |
| Laminated | Less than 1/4 in. |

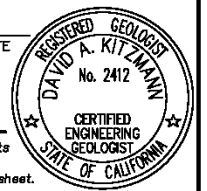
LEGEND OF ROCK MATERIALS

- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

CERTIFIED ENGINEERING GEOLOGIST DATE _____

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.



WRECO
8331 SIERRA COLLEGE BLVD.
ROSEVILLE, CALIFORNIA 95661 JOB NO: P15054

County of El Dorado
Community Development Agency Transportation Division
2850 Fairlane Court
Placerville, CA 95667

ROCK HARDNESS

| Description | Criteria |
|-----------------|--|
| Extremely Hard | Cannot be scratched with a pocketknife or sharp pick. Can only be chipped with repeated heavy hammer blows. |
| Very Hard | Cannot be scratched with a pocketknife or sharp pick. Breaks with repeated heavy hammer blows. |
| Hard | Can be scratched with a pocketknife or sharp pick with difficulty (heavy pressure). Breaks with heavy hammer blows. |
| Moderately Hard | Can be scratched with a pocketknife or sharp pick with light or moderate pressure. Breaks with moderate hammer blows. |
| Moderately Soft | Can be grooved 1/16" deep with a pocketknife or sharp pick with moderate or heavy pressure. Breaks with light hammer blow or heavy manual pressure. |
| Soft | Can be grooved or gouged easily by a pocketknife or sharp pick with light pressure, can be scratched with fingernail. Breaks with light to moderate manual pressure. |
| Very Soft | Can be readily indented, grooved or gouged with fingernail, or carved with a pocketknife. Breaks with light manual pressure. |

FRACTURE DENSITY

| Description | Observed Fracture Density |
|--------------------------|---|
| Unfractured | No fractures. |
| Very slightly fractured | Core lengths greater than 3 ft. |
| Slightly fractured | Core lengths mostly from 1 to 3 ft |
| Moderately fractured | Core lengths mostly in 4 in. to 1 ft. |
| Intensely fractured | Core lengths mostly from 1 in. to 4 in. |
| Very intensely fractured | Mostly chips and fragments. |

WEATHERING DESCRIPTORS FOR INTACT ROCK

| Description | Diagnostic features | | | | | General Characteristics |
|----------------------|--|---|--|---|---|---|
| | Chemical weathering—Discoloration and/or oxidation | | Mechanical Weathering—Grain boundary conditions (disaggregation) primarily for granitics and some coarse-grained sediments | Texture and Leaching | | |
| | Body of rock | Fracture Surfaces | | Texture | Leaching | |
| Fresh | No discoloration, not oxidized. | No discoloration or oxidation. | No separation, intact (tight). | No change. | No Leaching. | Hammer rings when crystalline rocks are struck. |
| Slightly Weathered | Discoloration or oxidation is limited to surface of, or short distance from, fractures; some feldspar crystals are dull. | Minor to complete discoloration or oxidation of most surfaces. | No visible separation, intact (tight). | Preserved. | Minor leaching of some soluble minerals. | Hammer rings when crystalline rocks are struck. Body of rock not weakened. |
| Moderately Weathered | Discoloration or oxidation extends from fractures usually throughout; Fe-Mg minerals are "rusty", feldspar crystals are "cloudy". | All fracture surfaces are discolored or oxidized. | Partial separation of boundaries visible. | Generally preserved. | Soluble minerals may be mostly leached. | Hammer does not ring when rock is struck. Body of rock is slightly weakened. |
| Intensely Weathered | Discoloration or oxidation throughout; all feldspars and Fe-Mg minerals are altered to clay to some extent; or chemical alteration produces in-situ disaggregation, see grain boundary conditions. | All fracture surfaces are discolored or oxidized, surfaces friable. | Partial separation, rock is friable; in semiarid conditions granitics are disaggregated. | Texture altered by chemical disintegration (hydration, argillation). | Leaching of soluble minerals may be complete. | Dull sound when struck with hammer, usually can be broken with moderate to heavy manual pressure or by light hammer blow without reference to planes of weakness such as incipient or hair-line fractures, or veinlets. Rock is significantly weakened. |
| Decomposed | Discolored or oxidized throughout, but resistant minerals such as quartz may be unaltered; all feldspars and Fe-Mg minerals are completely altered to clay. | | Complete separation of grain boundaries (disaggregated). | Resembles a soil, partial or complete remnant rock structure may be preserved; leaching of soluble minerals usually complete. | | Can be granulated by hand. Resistant minerals such as quartz may be present as "stringers" or "dikes". |

ROCK LEGEND

BRIDGE NO. 25C-0140
POST MILE C.R.
Hazel Valley Road at EID Canal Bridge Replacement
LOG OF TEST BORINGS 4 OF 4

REVISION DATES (PRELIMINARY STAGE ONLY)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

SHEET 40 OF 40

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ENGINEERING SERVICES GEOTECHNICAL SERVICES

FUNCTIONAL SUPERVISOR DRAWN BY: X. Vang FIELD INVESTIGATION BY: A. Kahn DATE: November 2013

CHECKED BY: D. Kitzmann

PREPARED FOR THE EL DORADO COUNTY COMMUNITY DEVELOPMENT AGENCY PROJECT ENGINEER

CU XXXXXX EA XXXXXX

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3