

THE CONTRACTOR MUST POSSESS THE CLASS (OR CLASSES)
OF LICENSES AS SPECIFIED IN THE "NOTICE TO BIDDERS."

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL CALL "UNDERGROUND SERVICE
ALERT" (USA) AT 800-227-2600 AT LEAST 2 WORKING
DAYS PRIOR TO PERFORMING ANY EXCAVATION

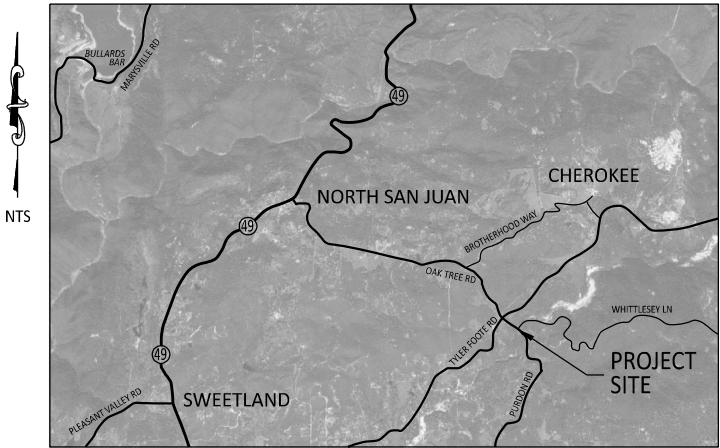
SHEET INDEX

SHEET NO	DESCRIPTION
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2	TYPICAL SECTIONS & GENERAL NOTES
3	LAYOUT PLAN
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13	SUMMARY OF QUANTITIES
14-25	STRUCTURE PLANS

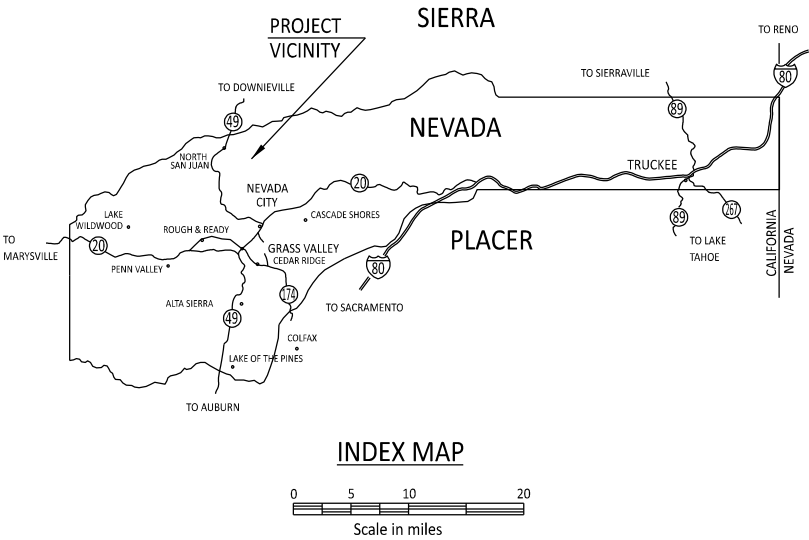
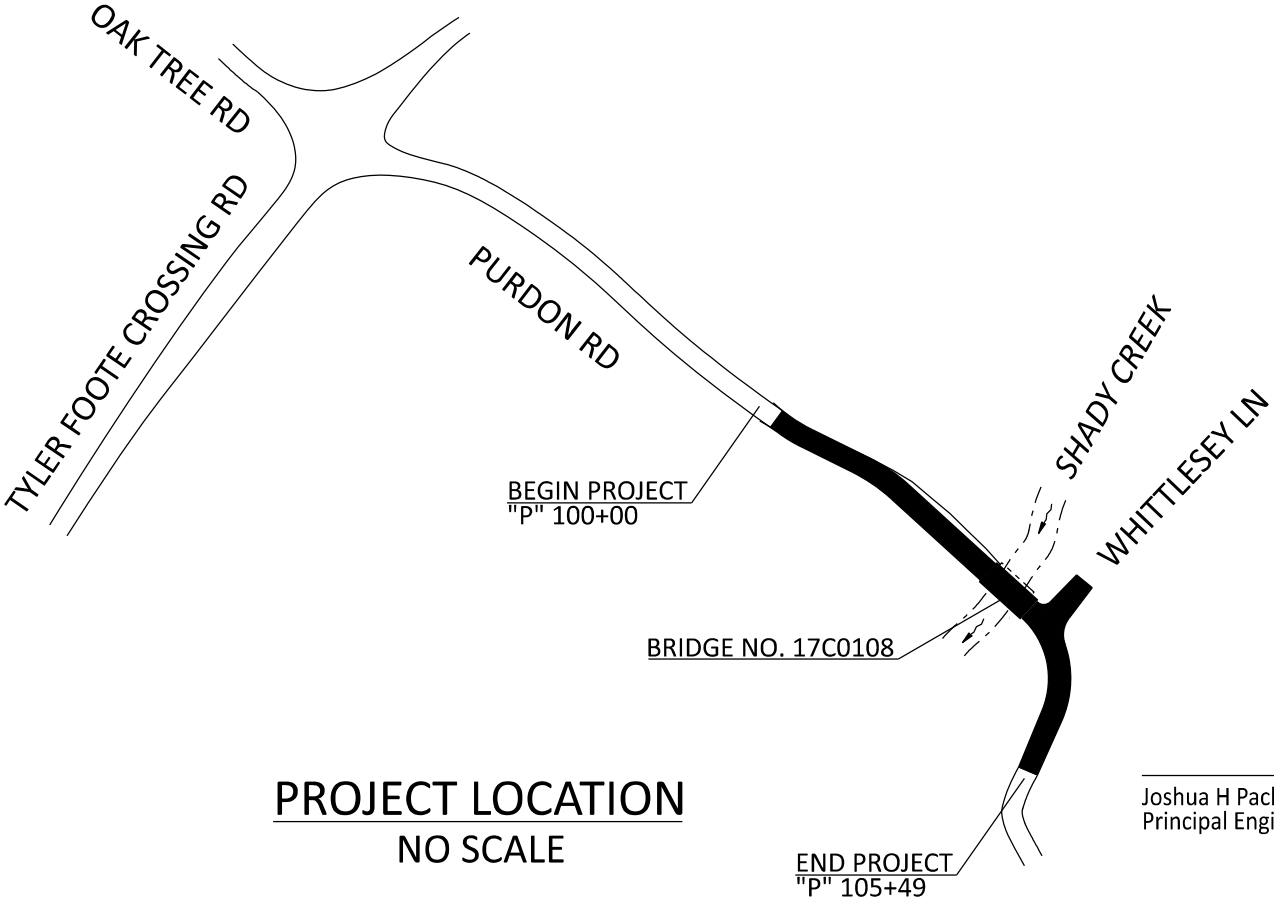
NEVADA COUNTY
Department of Public
Works Project Plans
for
Purdon Road over Shady Creek
Bridge Replacement Project

Federal Project No. BRLO-5917 (083)

To be supplemented by the Nevada County Standards and Standard Road Drawings
and the California Department of Transportation Standard Plans and Specifications dated 2015.



VICINITY MAP



Joshua H Pack, R.C.E. 62417
Principal Engineer, Department of Public Works

Date

Trisha Tillotson, R.E.C. 66958
Director, Department of Public Works

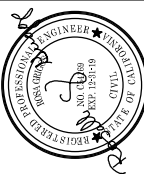
Date

Chairperson
Board of Supervisors

Date

REVISIONS

NO.	DESCRIPTION	BY	DATE



DESIGNED BY DOKKEN ENGINEERING
FOR
NEVADA COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN/CONSTRUCTION DIVISION



PURDON ROAD OVER SHADY
CREEK BRIDGE (REPLACEMENT)
COVER SHEET

BRIDGE No.	17C0108
DESIGNED:	E. ESPINOZA
DRAWN:	R. SANDERS
CHECKED:	R. GRIGGS
JOB NO:	2103
DATE:	FEBRUARY 6, 2018

SHEET
1
OF 25 SHEETS

LEGEND

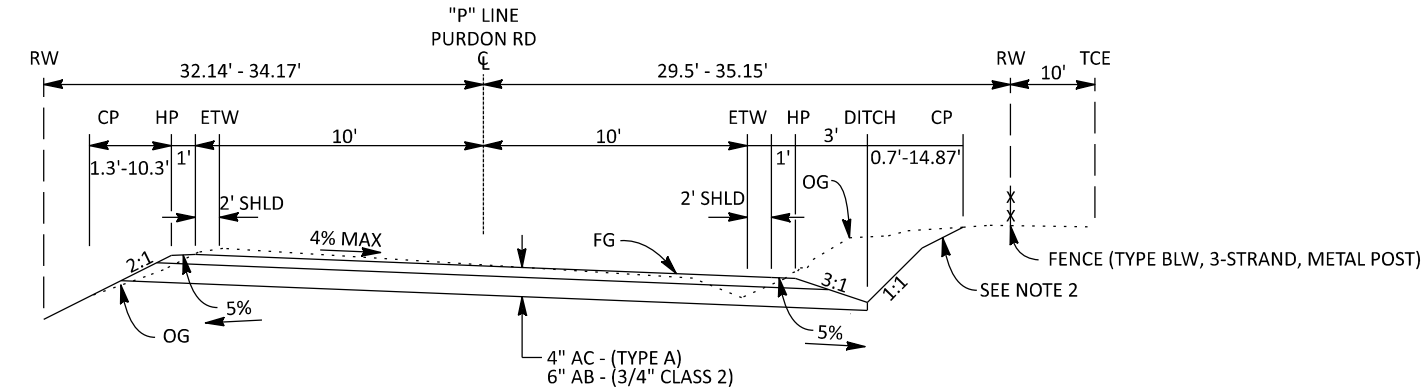
BLW BARBEDLESS WIRE

NOTES

1. FOR BRIDGE TYPICAL SECTION, SEE STRUCTURE PLANS.
2. FOR SLOPE ROUNDING, SEE COUNTY OF NEVADA DEPARTMENT OF PUBLIC WORKS STANDARD DRAWINGS

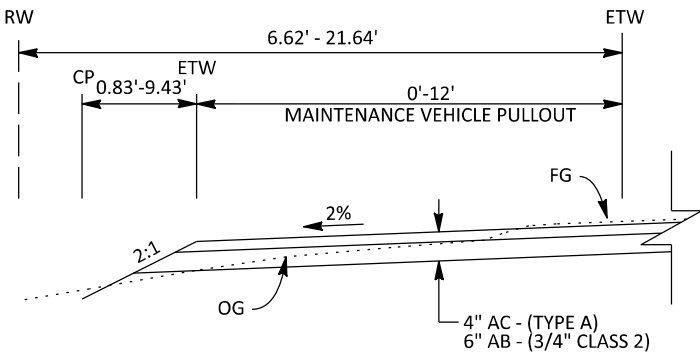
GENERAL NOTES

1. THE CONTRACTOR MUST FIELD VERIFY ALL ELEVATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR MUST CONTACT UNDERGROUND SERVICE ALERT (1-800-227-2600) TWO WORKING DAYS PRIOR TO WORK COMMENCEMENT.
3. APPLY HYDROSEED TO ALL DISTURBED OR NEWLY FORMED SLOPES PER REQUIREMENTS IN SPECIAL PROVISIONS, SEE EROSION CONTROL SHEET.



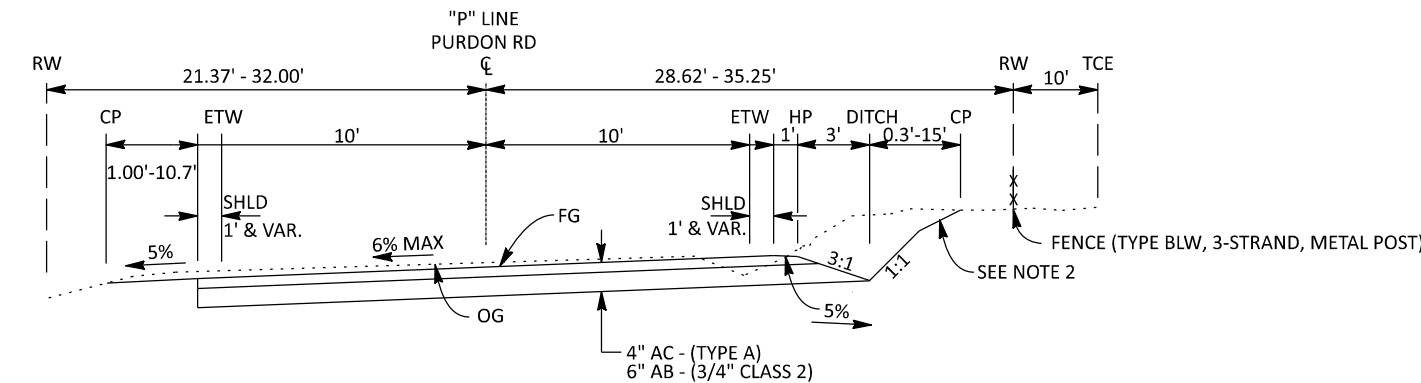
STA "P" 101+77.55 TO 102+86.85

NO SCALE



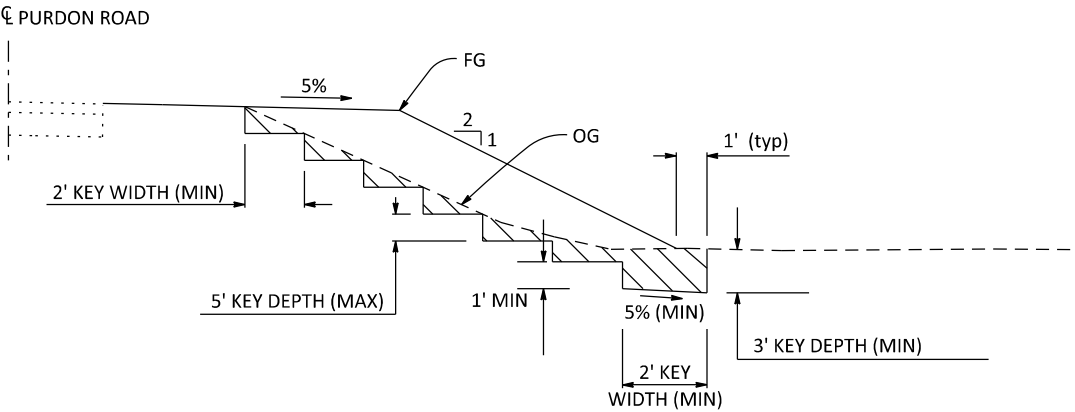
STA "P" 101+39.00 TO 102+32.11

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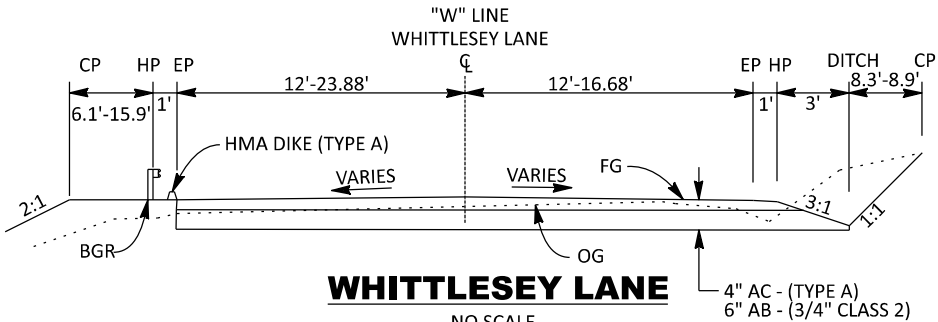


STA "P" 100+13.60 TO 101+77.55

NO SCALE

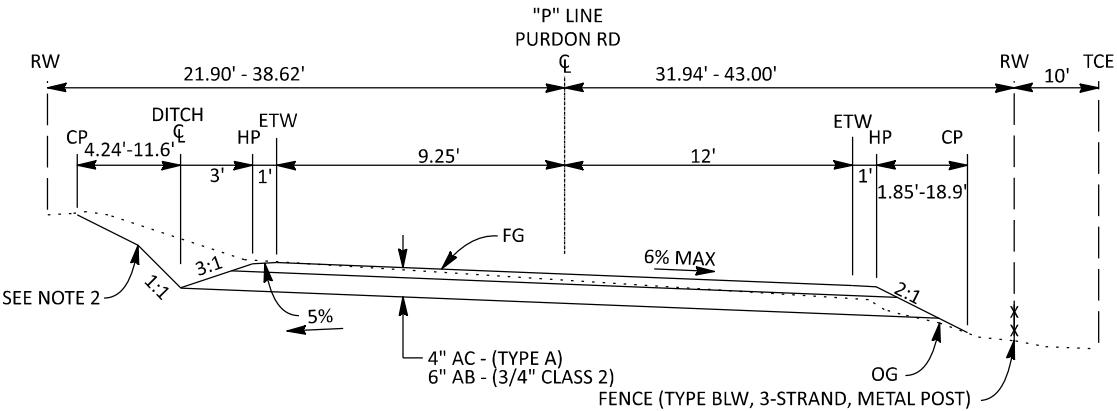


EMBANKMENT KEY DETAIL



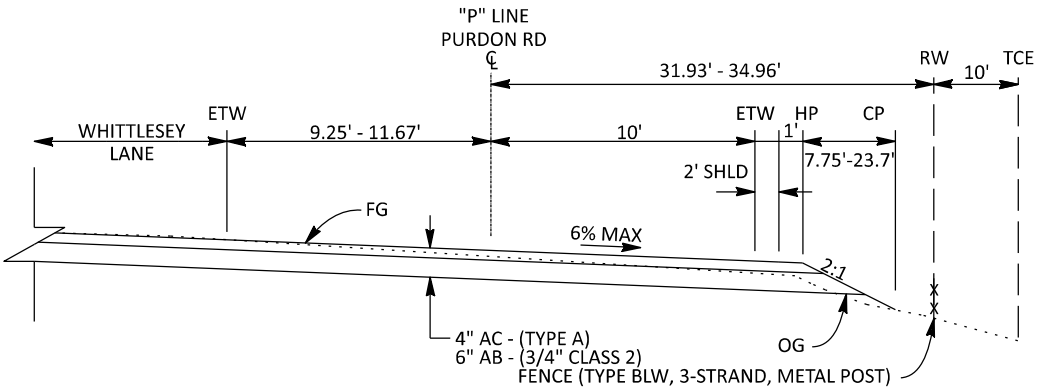
WHITTLESEY LANE

NO SCALE



STA "P" 104+08.18 TO 104+90.05

NO SCALE



STA "P" 103+65.85 TO 104+08.18

NO SCALE

REVISIONS

NO.	DATE	BY	DESCRIPTION

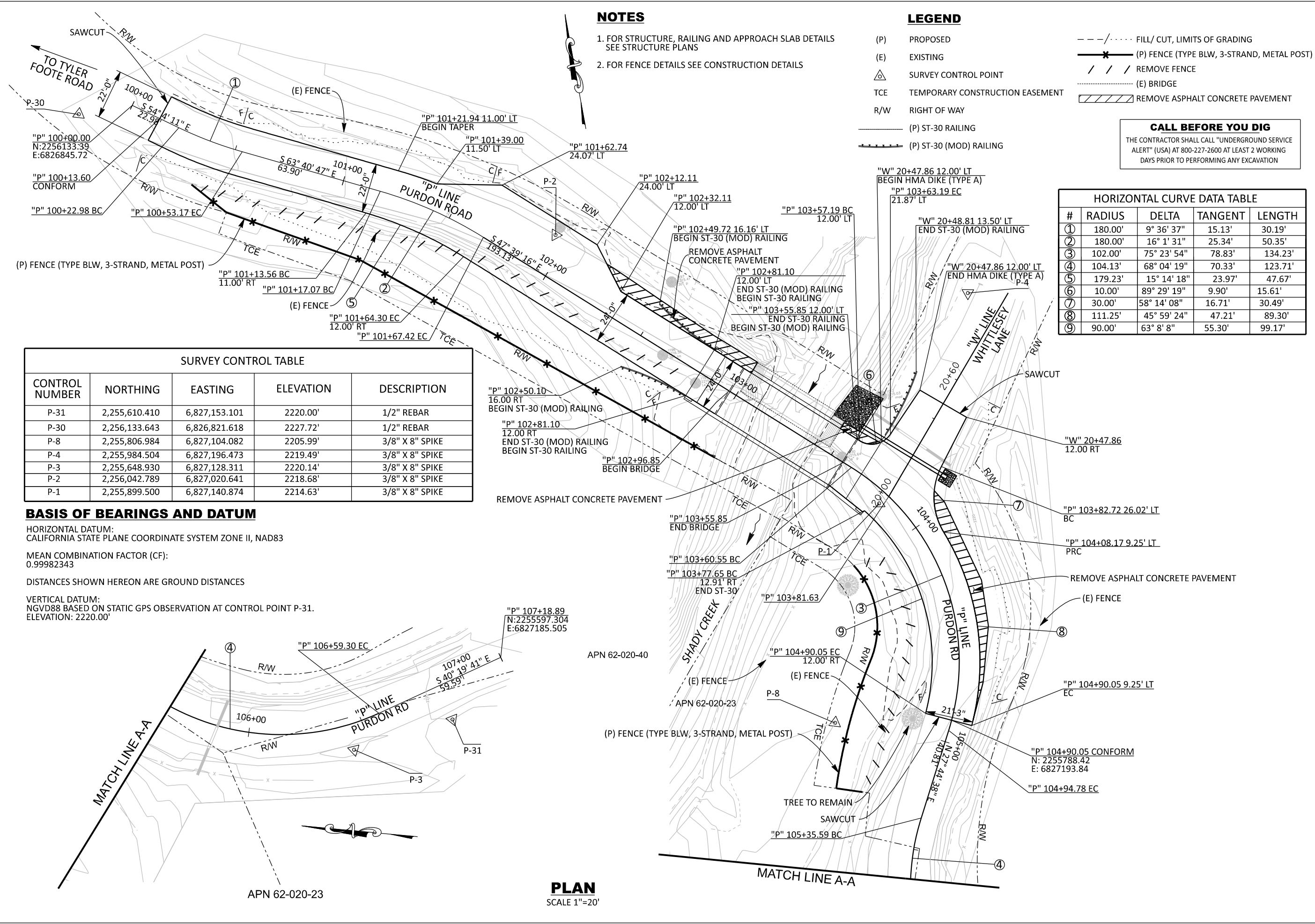


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FOR
NEVADA COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN/CONSTRUCTION DIVISION

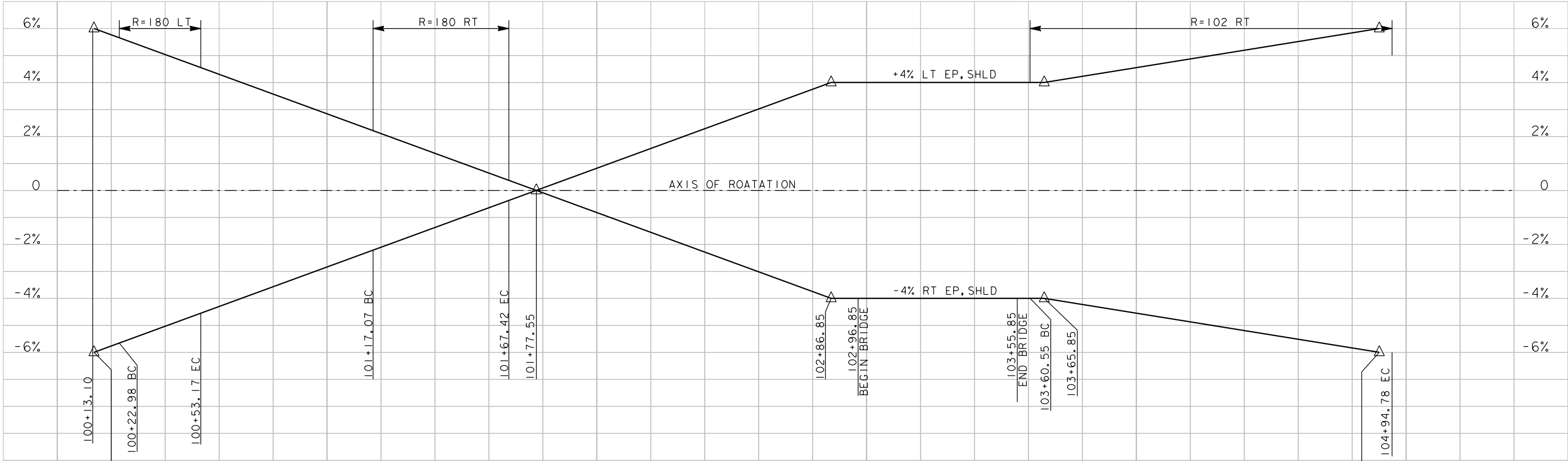


PURDON ROAD OVER SHADY
CREEK BRIDGE (REPLACEMENT)
TYPICAL SECTIONS
& GENERAL NOTES

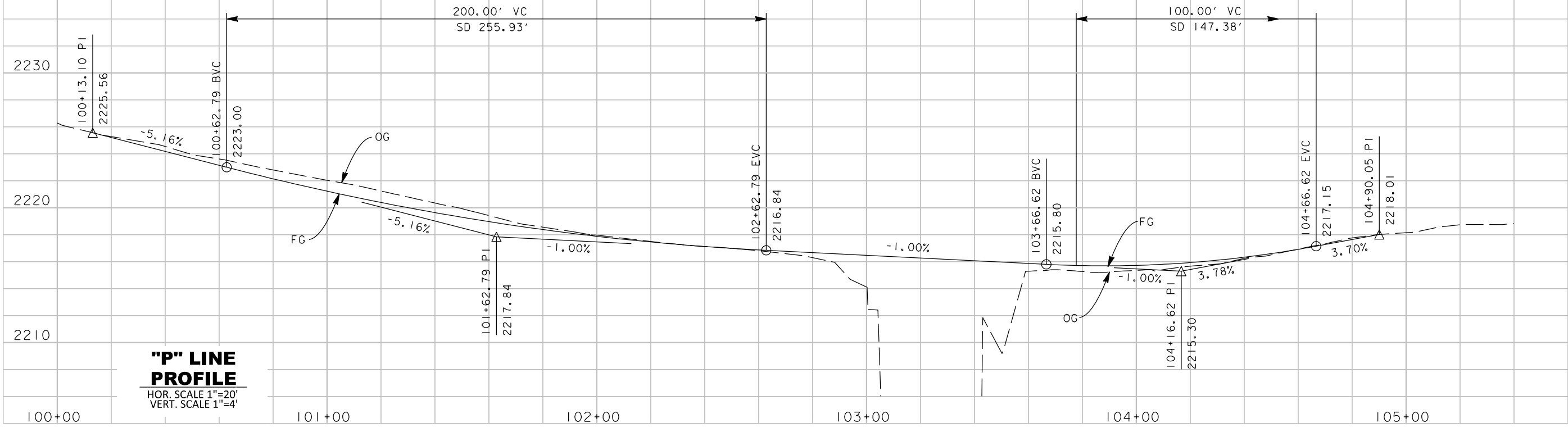
BRIDGE No.	17C0108
DESIGNED:	E. ESPINOZA
DRAWN:	J. BARAJAS
CHECKED:	R. GRIGGS
JOB NO:	2103
DATE:	FEBRUARY, 2018



REVISIONS				
NO.	DATE	BY	DESCRIPTION	
DESIGNED BY DOKKEN ENGINEERING FOR NEVADA COUNTY DEPARTMENT OF PUBLIC WORKS DESIGN/CONSTRUCTION DIVISION  PURDON ROAD OVER SHADY CREEK BRIDGE (REPLACEMENT) LAYOUT PLAN BRIDGE No. 17C0108 DESIGNED: E. ESPINOZA DRAWN: J. BARAJAS CHECKED: R. GRIGGS JOB NO: 2103 DATE: FEBRUARY, 2018 SHEET 3 OF 25 SHEETS				



**"P" LINE
SUPERELEVATION**
SCALE 1"=20'



**"P" LINE
PROFILE**
HOR. SCALE 1"=20'
VERT. SCALE 1"=4'

REVISIONS

NO.	DESCRIPTION	BY	DATE

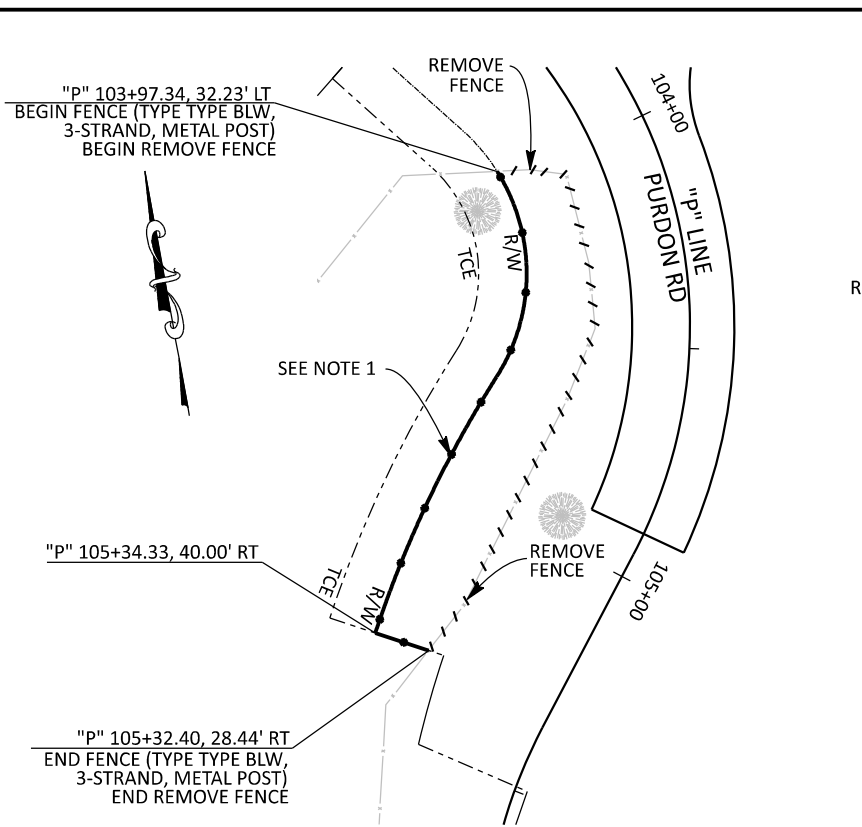
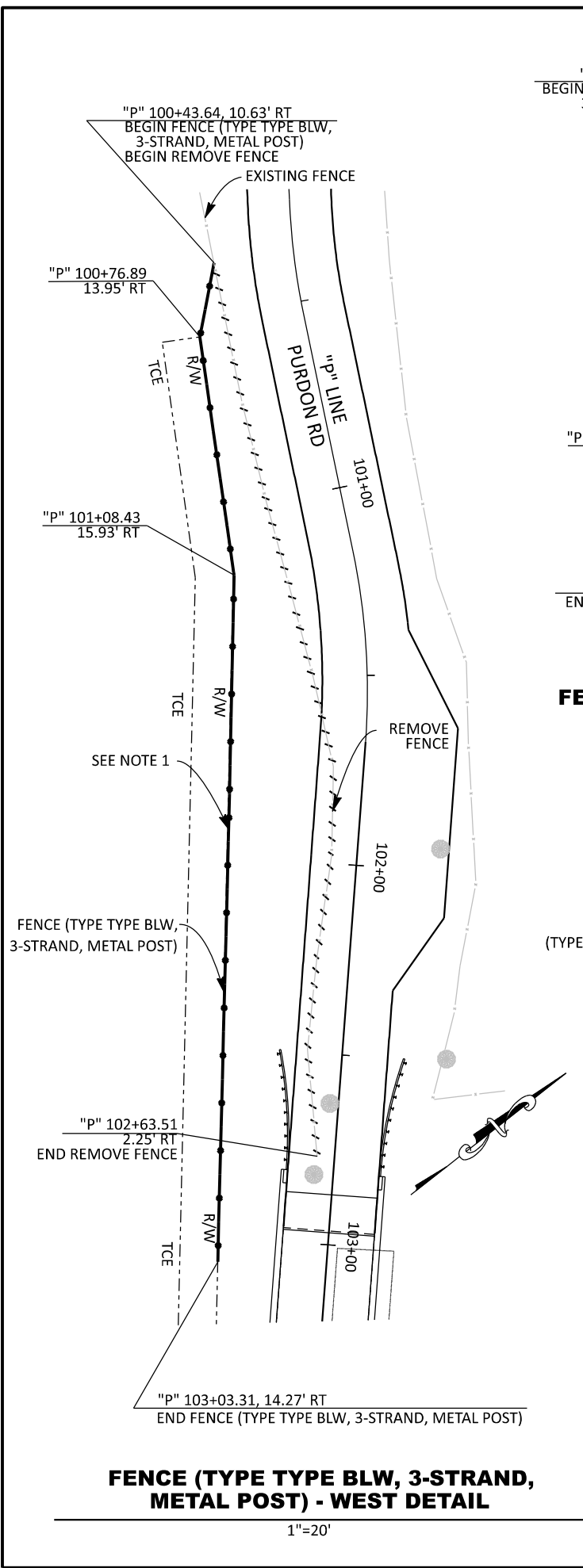


DESIGNED BY DOKKEN ENGINEERING
FOR
NEVADA COUNTY
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DESIGN/CONSTRUCTION DIVISION

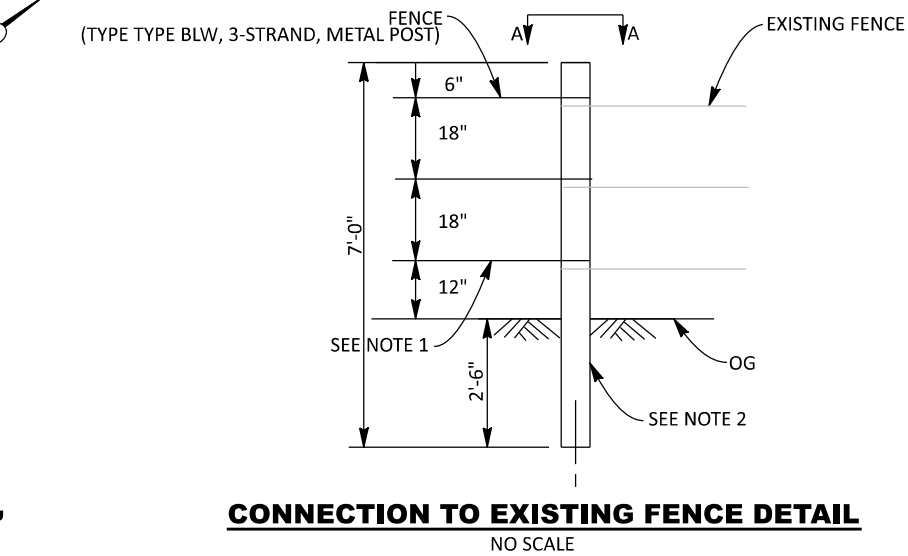
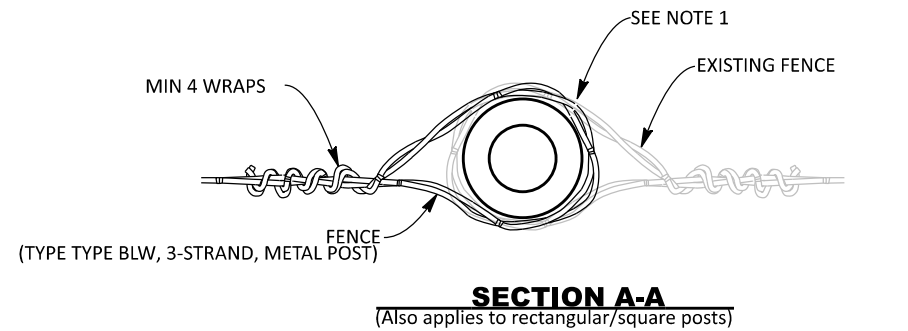


**PURDON ROAD OVER SHADY
CREEK BRIDGE (REPLACEMENT)
PROFILE & SUPERELEVATION**

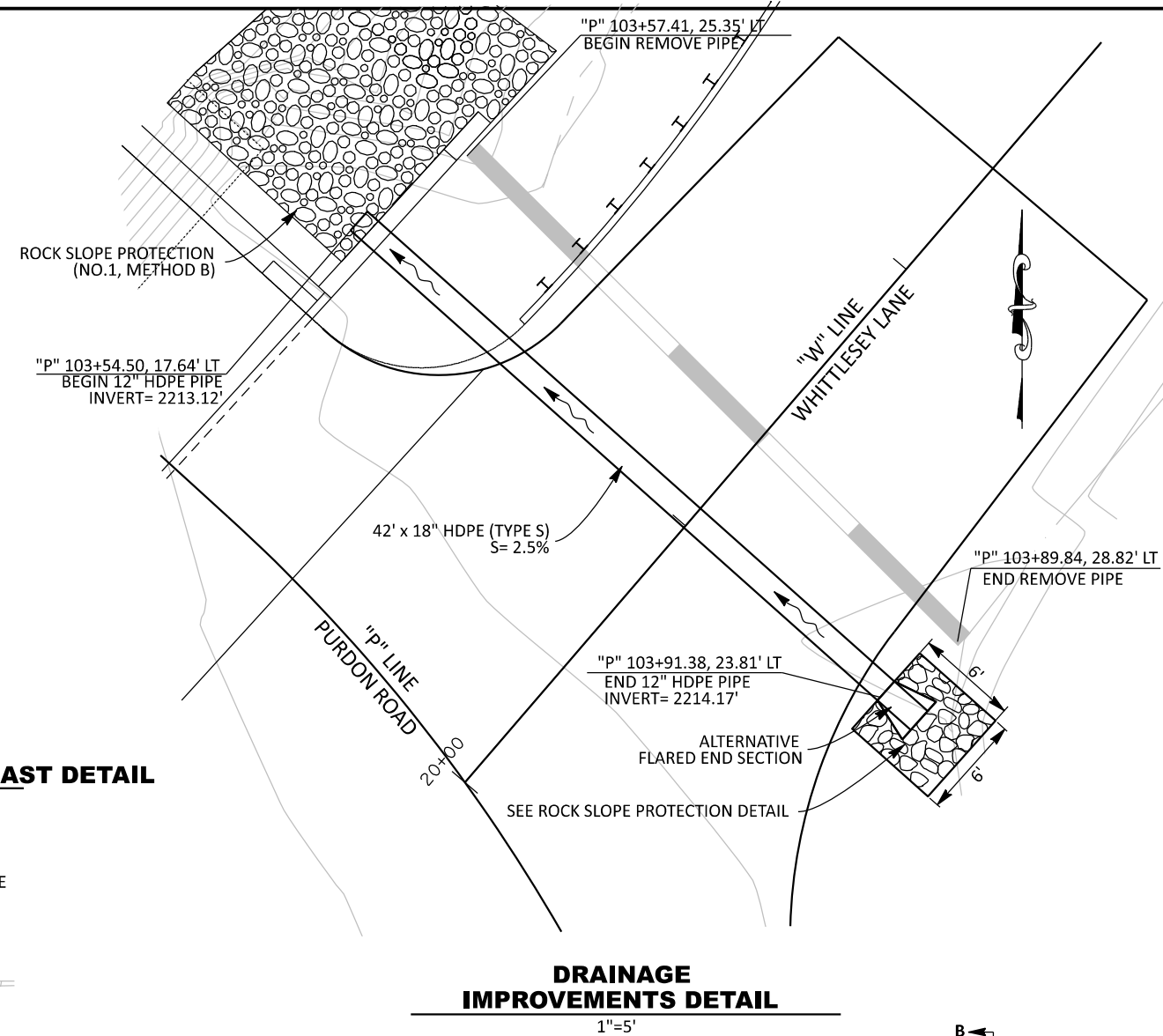
BRIDGE No. 17C0108
DESIGNED: E. ESPINOZA
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DATE: FEBRUARY, 2018



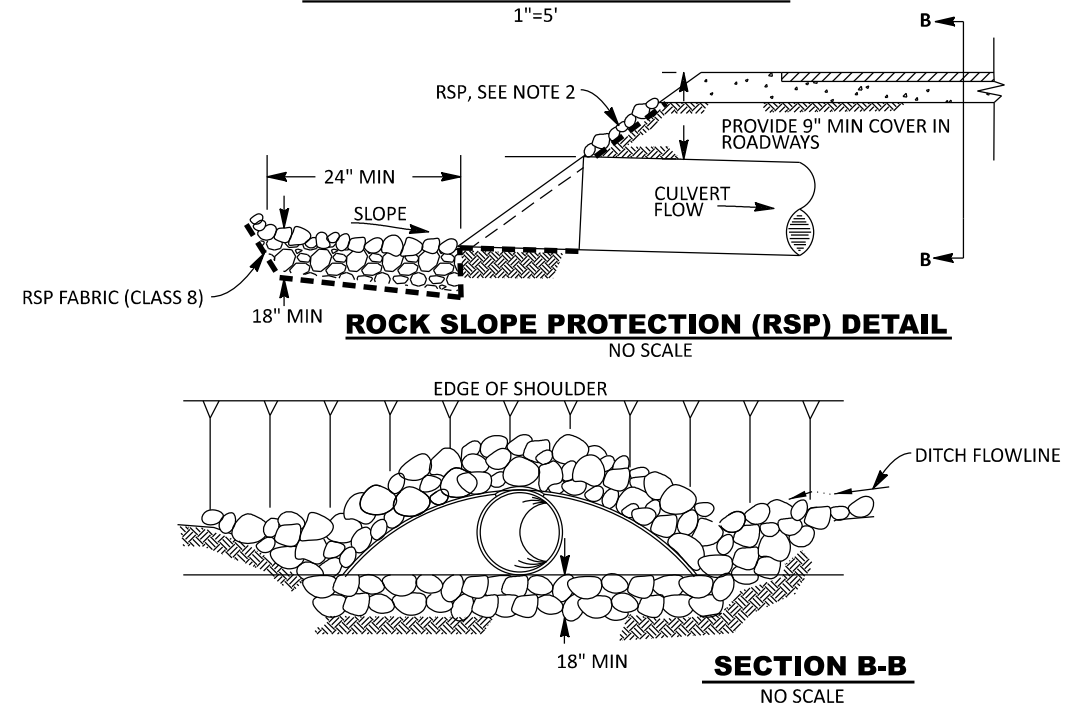
FENCE (TYPE TYPE BLW, 3-STRAND, METAL POST) - EAST DETAIL
1"=20'



CONNECTION TO EXISTING FENCE DETAIL
NO SCALE



DRAINAGE IMPROVEMENTS DETAIL
1"=5'



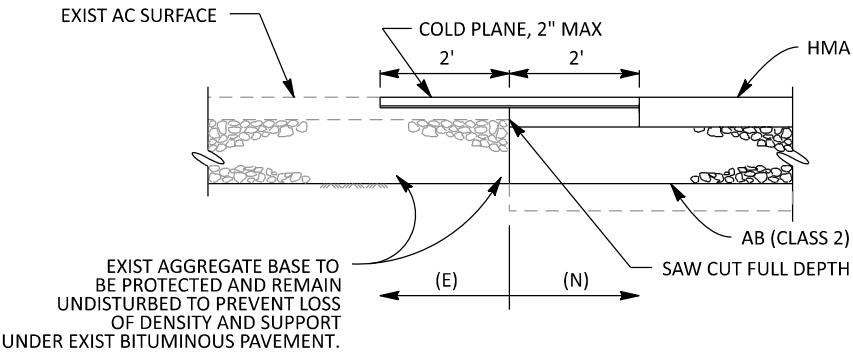
ROCK SLOPE PROTECTION (RSP) DETAIL
NO SCALE

SECTION B-B
NO SCALE

NOTES

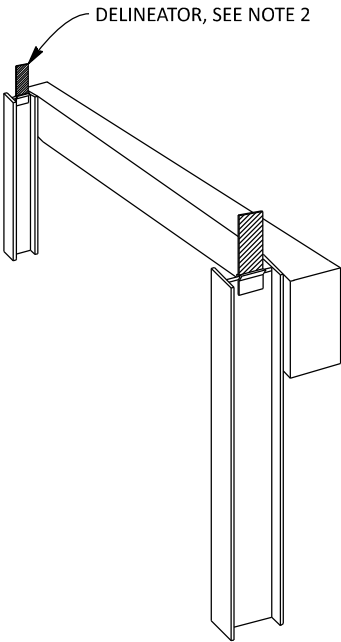
1. FOR FENCE (TYPE TYPE BLW, 3-STRAND, METAL POST) DETAILS NOT SHOWN, SEE STANDARD PLANS, SHEET A86.
2. USE STEEL POSTS, PAINT DARK BROWN.

REVISIONS			
NO.	DESCRIPTION	BY	DATE
			
DESIGNED BY DOKKEN ENGINEERING			
FOR NEVADA COUNTY DEPARTMENT OF PUBLIC WORKS DESIGN/CONSTRUCTION DIVISION			
			
PURDON ROAD OVER SHADY CREEK BRIDGE (REPLACEMENT)			
CONSTRUCTION DETAILS			
BRIDGE No. 17C0108			
DESIGNED: E. ESPINOZA			
DRAWN: J. BARAJAS			
CHECKED: R. GRIGGS			
JOB NO: 2103			
DATE: FEBRUARY, 2018			
SHEET			
5			
OF 25 SHEETS			

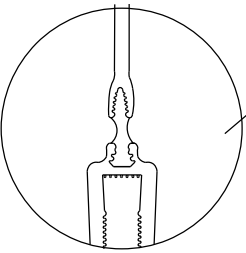


HMA PAVEMENT CONFORM DETAIL

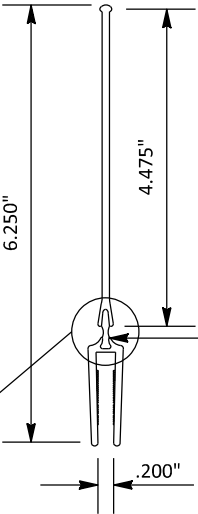
NO SCALE



DELINEATOR

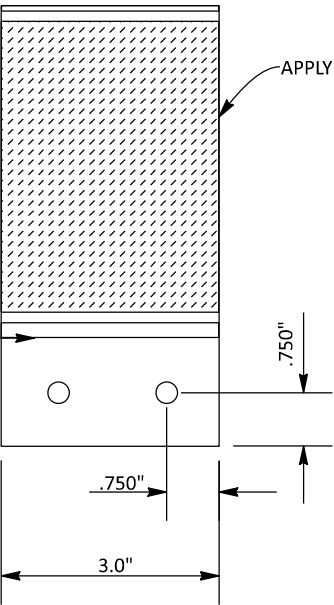


GATOR JAWS DETAIL



END ELEVATION

POLYURETHANE FLEXIBLE HINGE



SIDE ELEVATION

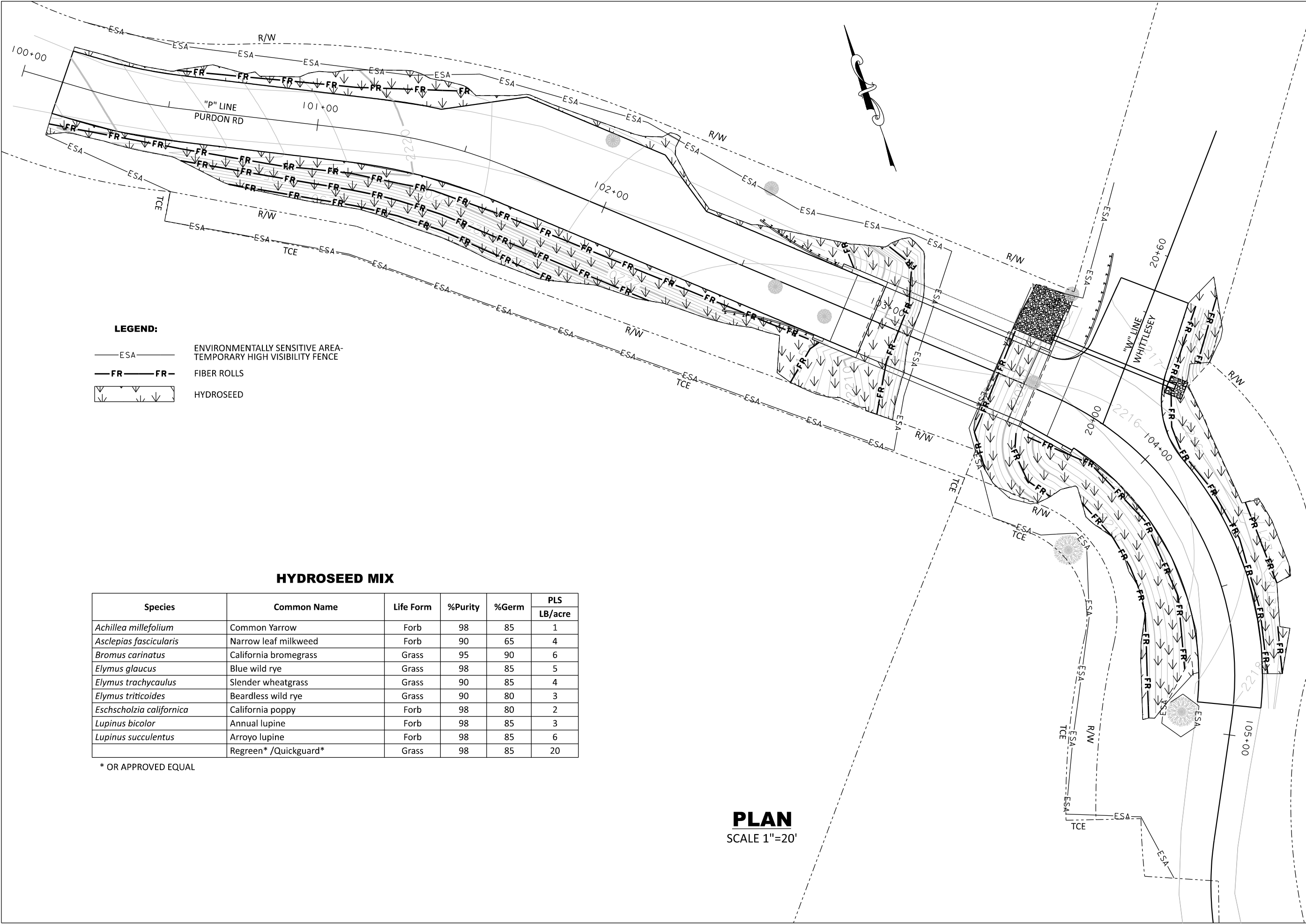
GUARD RAILING DELINEATOR

NO SCALE

NOTES

- 1. SPACE CRT POST AT A MINIMUM OF 3' FROM 12" HDPE PIPE
- 2. INSTALL DELINEATOR PEXCO I-FLEX 12 STRONG POST WITH GATOR JAWS OR APPROVED EQUAL.

REVISIONS				
NO.	DESCRIPTION	BY	DATE	
DESIGNED BY DOKKEN ENGINEERING FOR NEVADA COUNTY DEPARTMENT OF PUBLIC WORKS DESIGN/CONSTRUCTION DIVISION				
PURDON ROAD OVER SHADY CREEK BRIDGE (REPLACEMENT) CONSTRUCTION DETAILS				
BRIDGE No. 17C0108				
DESIGNED: E. ESPINOZA				
DRAWN:				
CHECKED: R. GRIGGS				
JOB NO: 2103				
DATE: FEBRUARY, 2018				
SHEET				
6				
OF 25 SHEETS				



LEGEND:

— ESA — ENVIRONMENTALLY SENSITIVE AREA-
TEMPORARY HIGH VISIBILITY FENCE

— FR — FR — FIBER ROLLS

↓ ↓ ↓ ↓ ↓ HYDROSEED

HYDROSEED MIX					
Species	Common Name	Life Form	%Purity	%Germ	PLS LB/acre
<i>Achillea millefolium</i>	Common Yarrow	Forb	98	85	1
<i>Asclepias fascicularis</i>	Narrow leaf milkweed	Forb	90	65	4
<i>Bromus carinatus</i>	California bromegrass	Grass	95	90	6
<i>Elymus glaucus</i>	Blue wild rye	Grass	98	85	5
<i>Elymus trachycaulus</i>	Slender wheatgrass	Grass	90	85	4
<i>Elymus triticoides</i>	Beardless wild rye	Grass	90	80	3
<i>Eschscholzia californica</i>	California poppy	Forb	98	80	2
<i>Lupinus bicolor</i>	Annual lupine	Forb	98	85	3
<i>Lupinus succulentus</i>	Arroyo lupine	Forb	98	85	6
	Regreen* /Quickguard*	Grass	98	85	20

* OR APPROVED EQUAL

PLAN
SCALE 1"=20'

REVISIONS				
NO.	DESCRIPTION	BY	DATE	



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DESIGN/CONSTRUCTION DIVISION



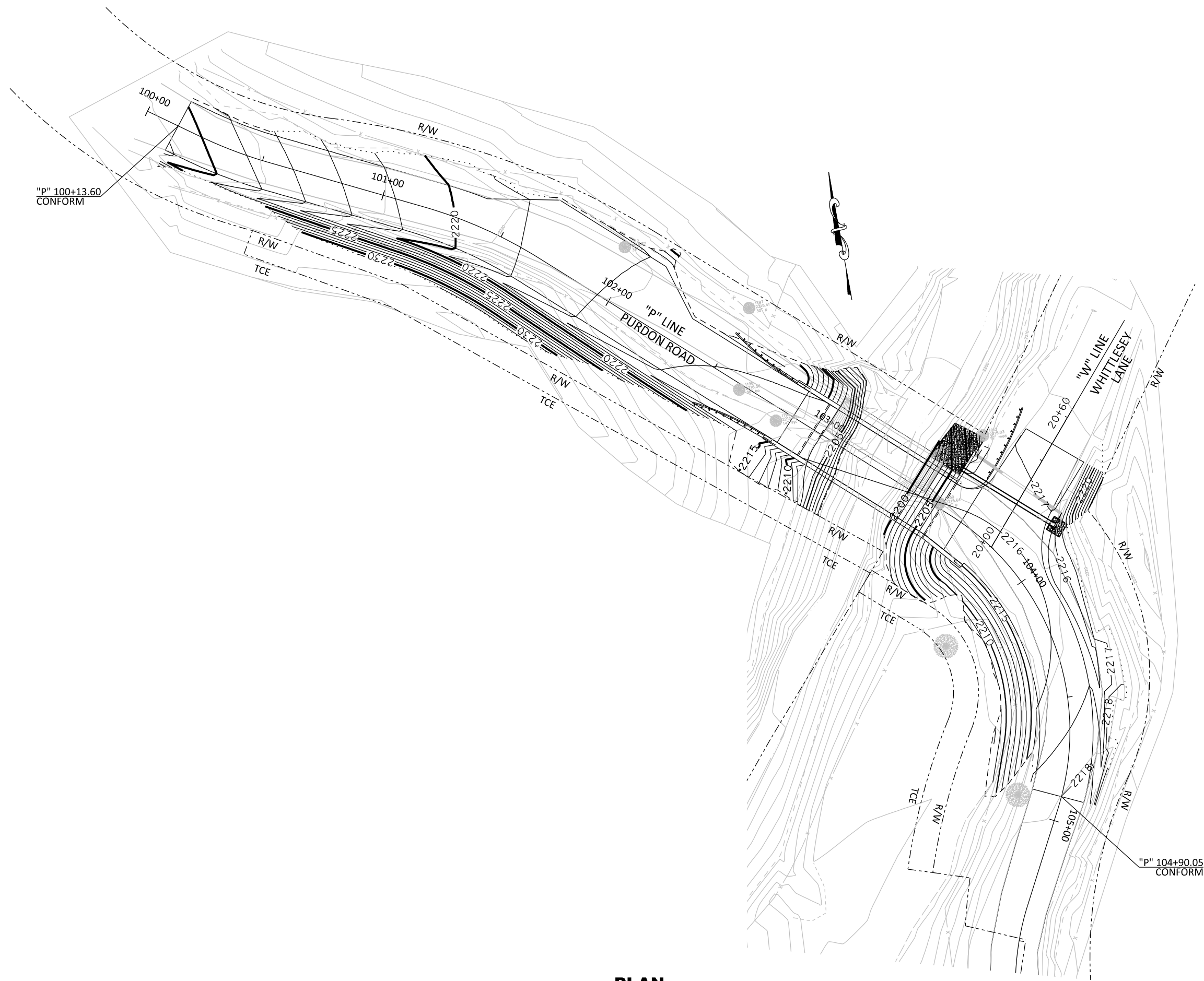
**PURDON ROAD OVER SHADY
CREEK BRIDGE (REPLACEMENT)**
EROSION CONTROL PLAN

BRIDGE No.	17C0108
DESIGNED:	E. ESPINOZA
DRAWN:	J. BARAJAS
CHECKED:	R. GRIGGS
JOB NO:	2103
DATE:	FEBRUARY, 2018

SHEET

7

OF 25 SHEETS



PLAN
SCALE 1"=20'

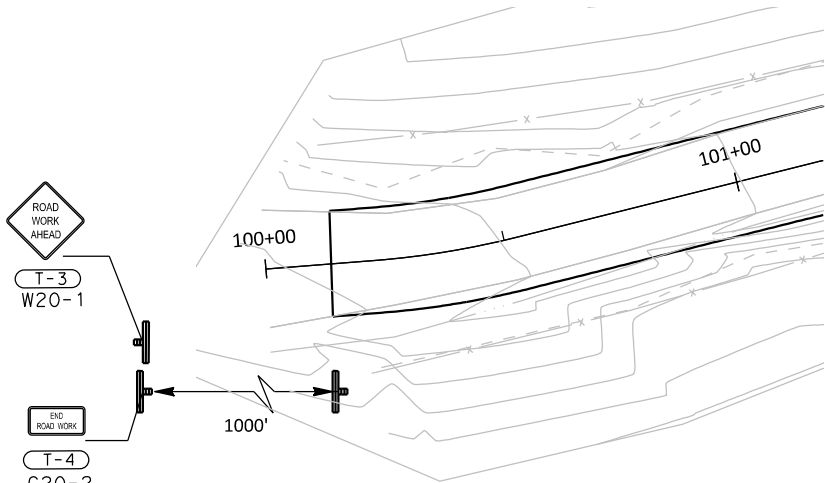
REVISIONS				
NO.	DESCRIPTION	BY	DATE	

DESIGNED BY DOKKEN ENGINEERING
FOR
NEVADA COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN/CONSTRUCTION DIVISION

PURDON ROAD OVER SHADY CREEK BRIDGE (REPLACEMENT)
CONTOUR GRADING

BRIDGE No. 17C0108
DESIGNED: E. ESPINOZA
DRAWN: J. BARAJAS
CHECKED: R. GRIGGS
JOB NO: 2103
DATE: FEBRUARY, 2018

SHEET
8
OF 25 SHEETS



CONSTRUCTION AREA SIGNS
NO SCALE

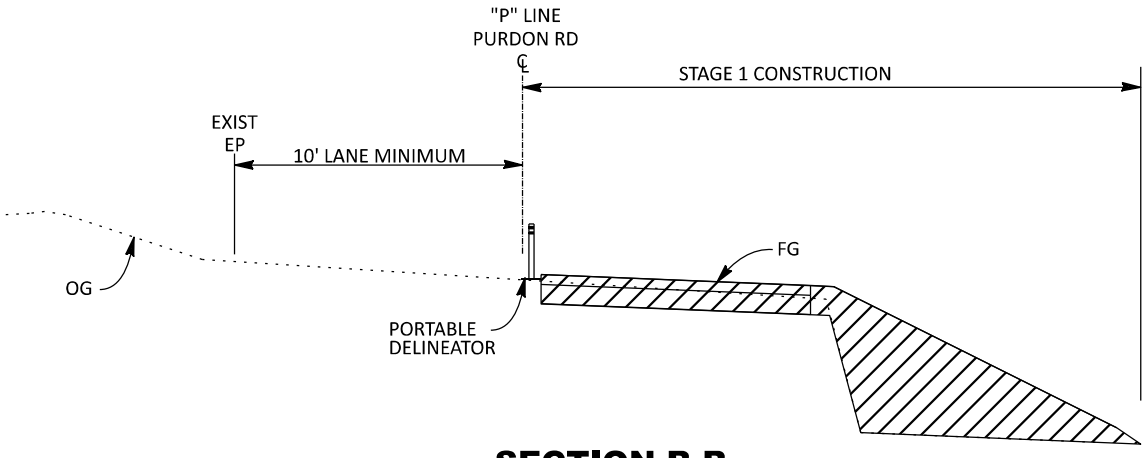
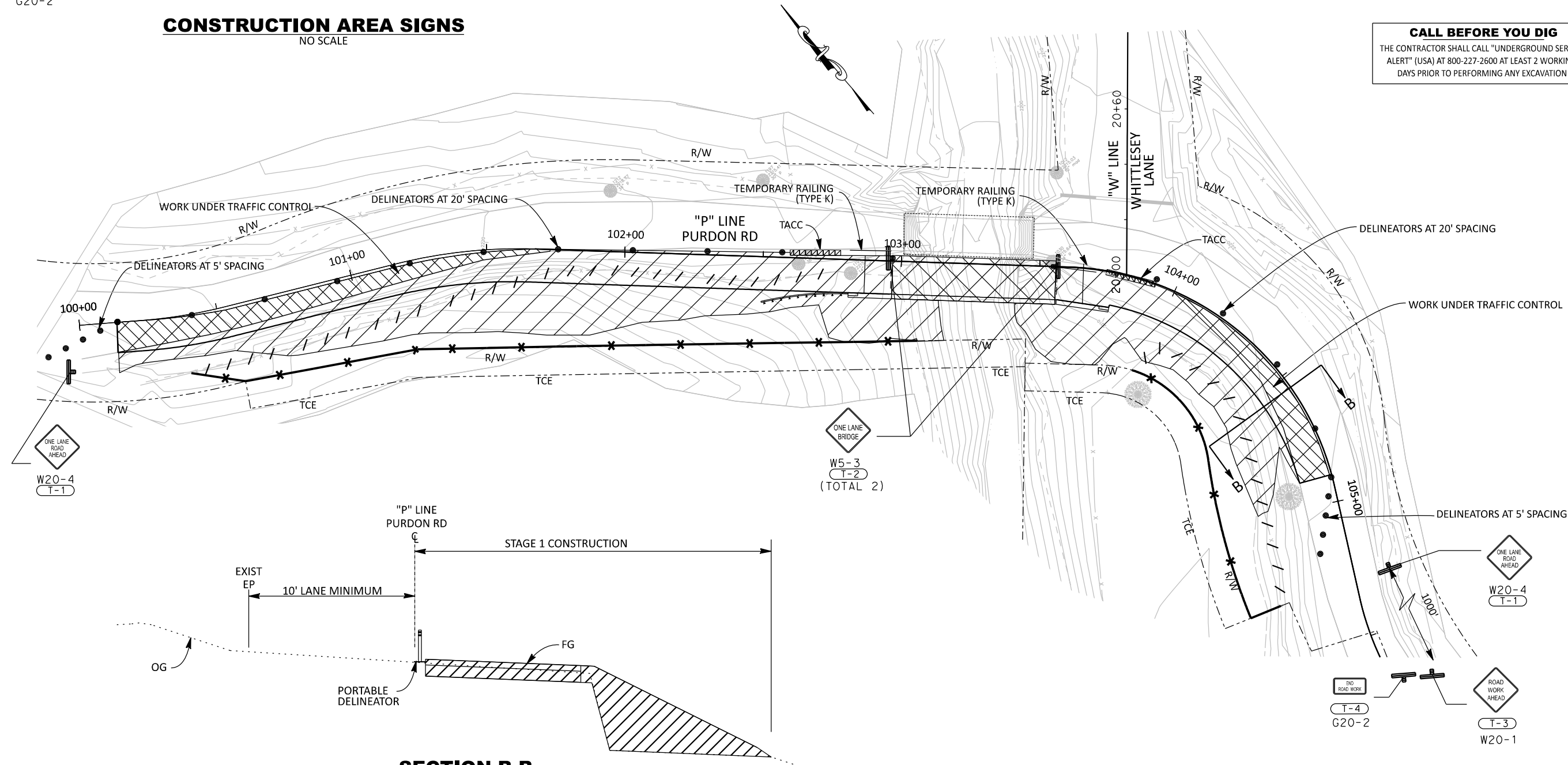
NOTES

1. FOR STRUCTURE, RAILING AND APPROACH SLAB DETAILS SEE STRUCTURE PLANS
2. FOR FENCE DETAILS SEE CONSTRUCTION DETAILS
3. FOR TRAFFIC CONTROL SIGN PLAN, SEE CALTRANS STANDARD PLAN T13

LEGEND

- TCE TEMPORARY CONSTRUCTION EASEMENT
R/W RIGHT OF WAY
TEMPORARY RAILING (TYPE K)
TEMPORARY ALTERNATIVE CRASH CUSHION (ABSORB 350)
PORTABLE DELINEATORS
- /--- FILL/ CUT, LIMITS OF GRADING
(P) FENCE (TYPE BLW, 3-STRAND, METAL POST)
/// REMOVE FENCE
EXISTING BRIDGE
STAGE CONSTRUCTION BRIDGE
STAGE CONSTRUCTION ROADWAY
WORK UNDER TRAFFIC CONTROL

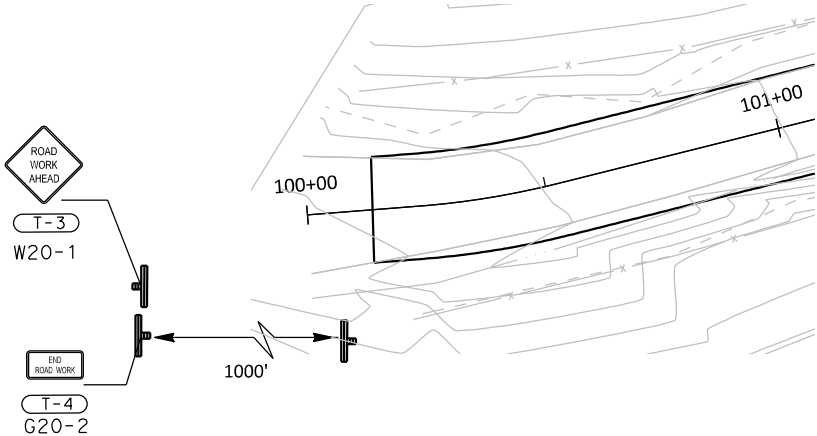
CALL BEFORE YOU DIG
THE CONTRACTOR SHALL CALL "UNDERGROUND SERVICE ALERT" (USA) AT 800-227-2600 AT LEAST 2 WORKING DAYS PRIOR TO PERFORMING ANY EXCAVATION



SECTION B-B
NO SCALE

PLAN
SCALE 1"=20'

REVISIONS			
NO.	DESCRIPTION	BY	DATE
DESIGNED BY DOKKEN ENGINEERING FOR NEVADA COUNTY DEPARTMENT OF PUBLIC WORKS DESIGN/CONSTRUCTION DIVISION PURDON ROAD OVER SHADY CREEK BRIDGE (REPLACEMENT) CONSTRUCTION AREA SIGNS STAGE 1 CONSTRUCTION PLAN BRIDGE No. 17C0108 DESIGNED: E. ESPINOZA DRAWN: J. BARAJAS CHECKED: R. GRIGGS JOB NO: 2103 DATE: FEBRUARY, 2018 SHEET 9 OF 25 SHEETS			



CONSTRUCTION AREA SIGNS
NO SCALE

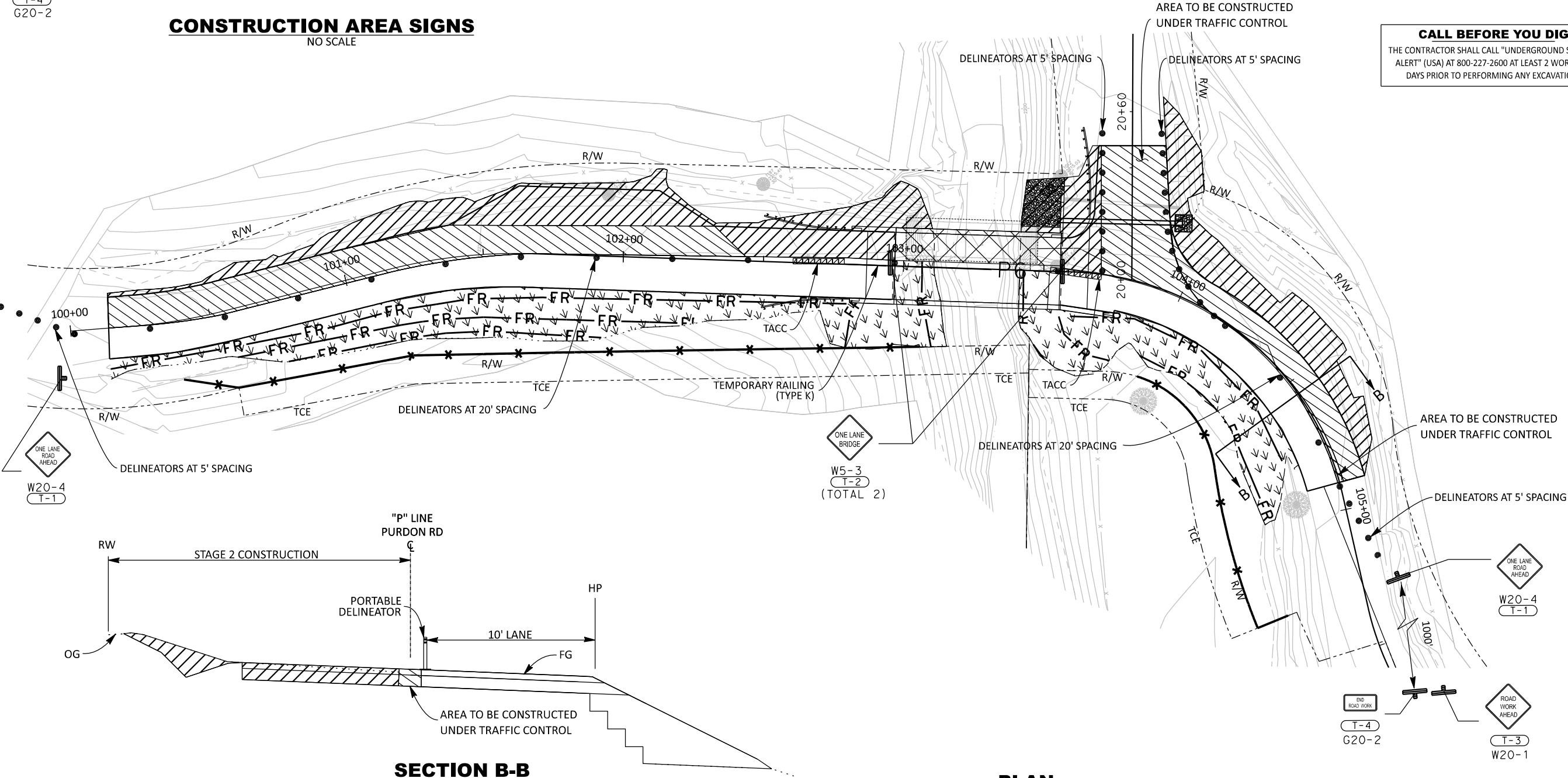
NOTES

1. FOR STRUCTURE, RAILING AND APPROACH SLAB DETAILS SEE STRUCTURE PLANS
2. FOR FENCE DETAILS SEE CONSTRUCTION DETAILS
3. FOR TRAFFIC CONTROL SIGN PLAN, SEE CALTRANS STANDARD PLAN T13

LEGEND

- TCE TEMPORARY CONSTRUCTION EASEMENT
R/W RIGHT OF WAY
TEMPORARY RAILING (TYPE K)
TEMPORARY ALTERNATIVE CRASH CUSHION (ABSORB 350)
PORTABLE DELINEATORS
- /--- FILL/ CUT, LIMITS OF GRADING
(P) FENCE (TYPE BLW, 3-STRAND, METAL POST)
/// REMOVE FENCE
EXISTING BRIDGE
STAGE CONSTRUCTION BRIDGE
STAGE CONSTRUCTION ROADWAY
WORK UNDER TRAFFIC CONTROL

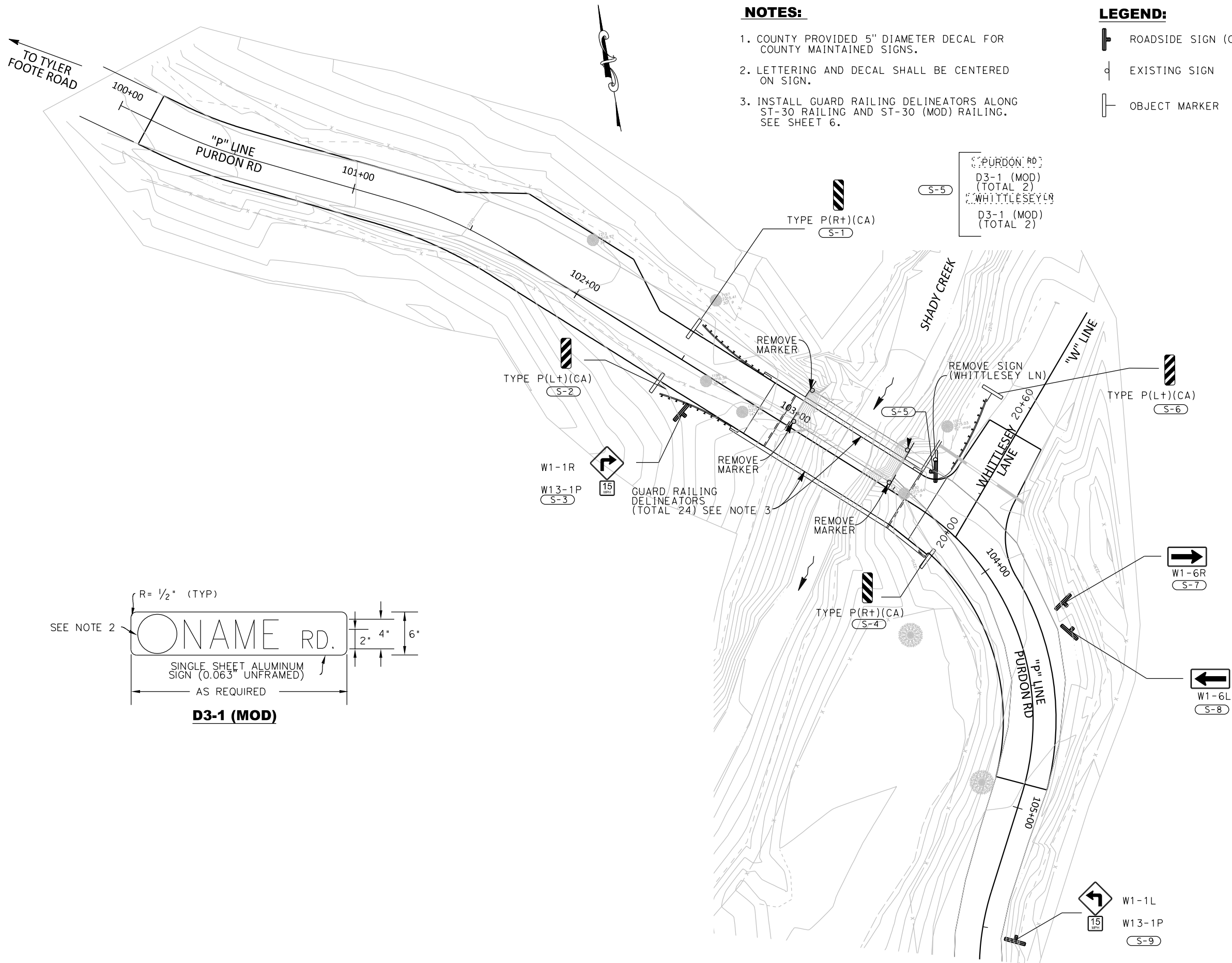
CALL BEFORE YOU DIG
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SECTION B-B
NO SCALE

PLAN
SCALE 1"=20'

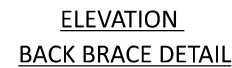
REVISIONS			
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DESIGNED BY DOKKEN ENGINEERING FOR NEVADA COUNTY DEPARTMENT OF PUBLIC WORKS DESIGN/CONSTRUCTION DIVISION			
PURDON ROAD OVER SHADY CREEK BRIDGE (REPLACEMENT) CONSTRUCTION AREA SIGNS & STAGE 2 CONSTRUCTION PLAN			
BRIDGE No. 17C0108			
DESIGNED: E. ESPINOZA			
DRAWN: J. BARAJAS			
CHECKED: R. GRIGGS			
JOB NO: 2103			
DATE: FEBRUARY, 2018			
SHEET			
10			
OF 25 SHEETS			



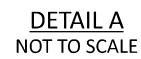
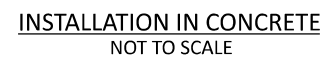
PLAN
SCALE 1"=20'

REVISIONS				
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DESIGNED BY DOKKEN ENGINEERING				
FOR NEVADA COUNTY DEPARTMENT OF PUBLIC WORKS DESIGN/CONSTRUCTION DIVISION				
PURDON ROAD OVER SHADY CREEK BRIDGE (REPLACEMENT) SIGN PLAN				
BRIDGE No. 17C0108				
DESIGNED: E. ESPINOZA				
DRAWN: J. BARAJAS				
CHECKED: R. GRIGGS				
JOB NO: 2103				
DATE: FEBRUARY, 2018				
SHEET 11 OF 25 SHEETS				

1. THE SIGN POST SHALL HAVE $\frac{7}{16}$ " DIAMETER PERFORATIONS 1" ON CENTER ON ALL FOUR SIDES FOR THE FULL LENGTH.
2. USE TWO DRIVE RIVETS TO FASTEN ASSEMBLED SIGN AND SIGN POST INTO ANCHOR SLEEVE. INSTALL DRIVE RIVETS INTO THE SIDES FACING TRAFFIC.
3. ALL METAL SIGN POSTS AND ANCHOR SLEEVES SHALL BE GALVANIZED.
4. ALL ANCHOR SLEEVES SHALL BE EMBEDDED IN PCC.
5. BALANCED SINGLE POST INSTALLATIONS OF SINGLE SHEET ALUMINUM PANEL SIGNS REQUIRE BACK BRACES WHEN 2'-10" OR MORE IN LENGTH
6. WOOD BLOCK SPACERS ARE NOT REQUIRED FOR SIGNS MOUNTED ON METAL POSTS.
7. ATTACH RECTANGULAR SIGN PANEL TO METAL POST WITH BOLTS AT TOP AND BOTTOM. CENTER MAY BE ATTACHED WITH EITHER BOLT OR $\frac{3}{8}$ " DRIVE RIVET.
8. ATTACH DIAMOND SIGN PANEL TO METAL POST WITH BOLT AT CENTER. TOP AND BOTTOM MAY BE ATTACHED WITH EITHER BOLTS OR $\frac{3}{8}$ " DRIVE RIVETS.
9. FOR DETAILS NOT SHOWN, SEE STANDARD PLANS.



NOT TO SCALE
SEE NOTES 5



SECTION A-A

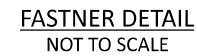
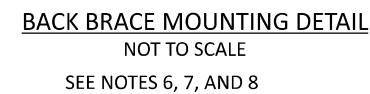
BALANCED

NOT TO SCALE
SEE NOTE 7

SECTION B-B

BALANCED

NOT TO SCALE
SEE NOTE 8

[illegible]

TOP

NEVADA COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN/CONSTRUCTION DIVISION

PURDON ROAD OVER SHADY
CREEK BRIDGE (REPLACEMENT)

DESIGN DETAILS

RIDGE No.	17C0108
DESIGNED:	E. ESPINOZA
DRAWN:	
CHECKED:	R. GRIGGS
JOB NO:	2103
DATE:	FEBRUARY, 2018

SHEET

2

F 25 SHEETS

LOCATION	EARTHWORK		AGGREGATE BASE	HMA (TYPE A)	HMA DIKE (TYPE A)	REMOVE ASPHALT CONCRETE
	ROAD EXCAVATION	EMBANKMENT				
	CY	CY	CY	TON	LF	SQFT
"P" LINE	834	134	210	270	-	915
"W" LINE	23	-	20	27	29	-
TOTAL	723		230	297	29	915

LOCATION	18" HDPE PIPE (TYPE S)	ROCK SLOPE PROTECTION (NO.1, METHOD B)	ROCK SLOPE PROTECTION FABRIC (CLASS 8)	18" ALTERNATIVE FLARED END SECTION
	LF	CY	SQYD	EA
"P" 103+57.41	42	-	-	-
"P" 103+91.38	-	1	3	1
TOTAL	42	1	3	1

ROADSIDE SIGN QUANTITIES								
Sign NO.	SIGN CODE	SIGN MESSAGE	SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED) PANEL SIZE (L X D)	SIGN QUANTITY	ROADSIDE SIGN (ONE POST)	ROADSIDE SIGN (ON BGR RAILING)	REMOVE SIGN	RETROFLECTIVE ASTM TYPE
				EACH				
S-1	TYPE P(RT)(CA)	CALIFORNIA OBJECT MARKER	12"X36"	1		1	1	XI
S-2	TYPE P(LT)(CA)	CALIFORNIA OBJECT MARKER	12"X36"	1		1	1	XI
S-3	W1-1R	TURN	30"X30"	1	1			XI
	W13-1P	ADVISORY SPEED (15MPH)	18"X18"	1				XI
S-4	TYPE P(RT)(CA)	CALIFORNIA OBJECT MARKER	12"X36"	1		1	1	XI
S-5	D3-1 (MOD)	STREET NAME		2	1			XI
	D3-1 (MOD)	STREET NAME		2			1	XI
S-6	TYPE P(LT)(CA)	CALIFORNIA OBJECT MARKER	12"X36"	1		1	1	XI
S-7	W1-6R	ONE-DIRECTION LARGE ARROW	48"X24"	1	1			XI
S-8	W1-6L	ONE-DIRECTION LARGE ARROW	48"X24"	1	1			XI
S-9	W1-1L	TURN	30"X30"	1	1			XI
	W13-1P	ADVISORY SPEED (15MPH)	18"X18"	1				XI
TOTAL				14	5	4	5	

TEMPORARY ROADSIDE SIGN QUANTITES

Sign NO.	SIGN CODE	SIGN MESSAGE	SIGN QUANTITY
			EA
T-1	W20-4	ONE LANE ROAD AHEAD	2
T-2	W5-3	ONE LANE BRIDGE	2
T-3	W20-1	ROAD WORK AHEAD	2
T-4	G20-2	END ROAD WORK	2

STATION	REMOVE EXISTING FENCE	PROPOSED FENCE (TYPE TYPE BLW, 3-STRAND, METAL POST)	TEMPORARY HIGH -VISIBILITY FENCE
	LF	LF	LF
"P" 100+37.28 TO 103+06.63, RT	239	264	-
"P" 103+96.64 TO 105+44.02, RT	124	117	-
"P" 100+13.10 TO 103+15.13, LT	-	-	335
"P" 100+13.10 TO 103+15.13, RT	-	-	350
"W" 20+00 TO 20+76.60, LT	-	-	89
"P" 103+40.83 TO 105+49.03, RT	-	-	225
"P" 104+44.59, (TREE, RT)	-	-	41
TOTAL	363	381	1040

STATION	FIBER ROLL	HYDROSEED	TEMPORARY FIBER ROLL	TEMPORARY HYDROSEED
	LF	SQFT	LF	SQYD
"P" 100+13.60 TO 103+20.00, LT	140	1594	-	-
"P" 100+13.60 TO 103+20.00, RT	591	3922	591	872
"P" 103+40.00 TO 105+00.00, LT	321	2100	-	-
"P" 103+40.00 TO 105+00.00, RT	237	2159	237	480
	-	-	-	-
TOTAL	1289	9775	828	1352

STATION	BGR	BGR ANCHOR (TYPE 5)
	LF	EA
"P" 103+55.85 TO 103+64.75, LT	38	1
TOTAL	38	1

STAGE	TEMPORARY RAILING (TYPE K)	TEMPORARY ALTERNATIVE CRASH CUSHION	PORTABLE DELINEATORS
	LF	EA	EA
1	40	2	23
2	80	2	41
TOTAL	120	4	64

REVISIONS

DATE	BY	DESCRIPTION	NO.						

DESIGNED BY DOKKEN ENGINEERING

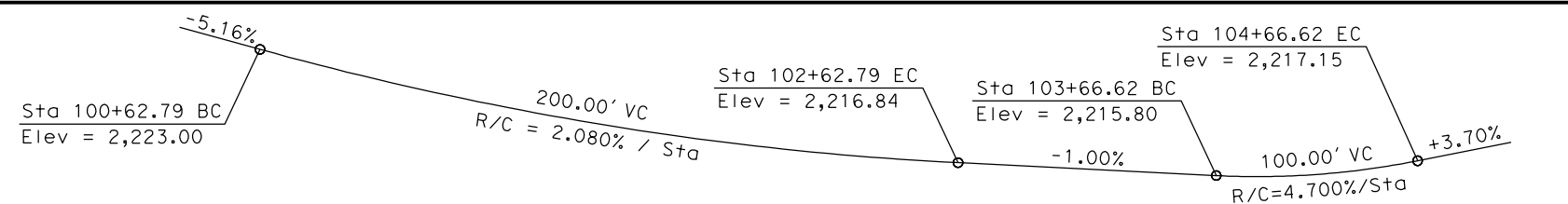
FOR
NEVADA COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN/CONSTRUCTION DIVISION

COUNTY OF NEVADA

PURDON ROAD OVER SHADY
CREEK BRIDGE (REPLACEMENT)
SUMMARY OF QUANTITIES

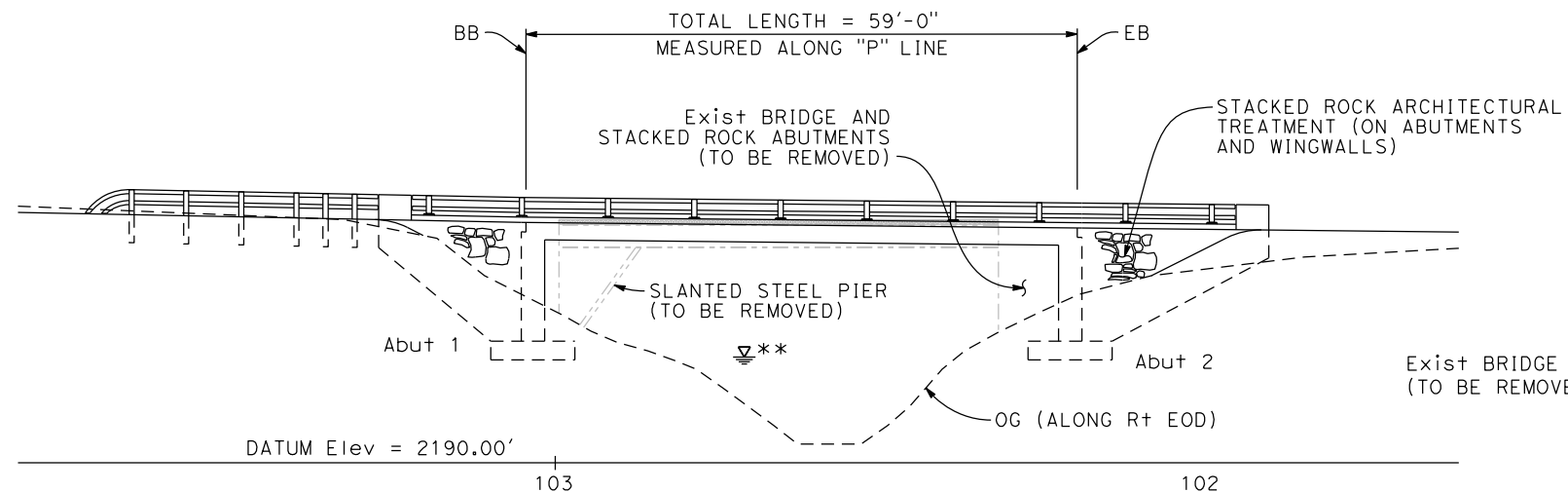
BRIDGE No. 17C0108
DESIGNED: E. ESPINOZA
DRAWN: R. SANDERS
CHECKED: R. GRIGGS
JOB NO: 2103
DATE: FEBRUARY, 2018

SHEET
13
OF 25 SHEETS



PROFILE GRADE

NO SCALE



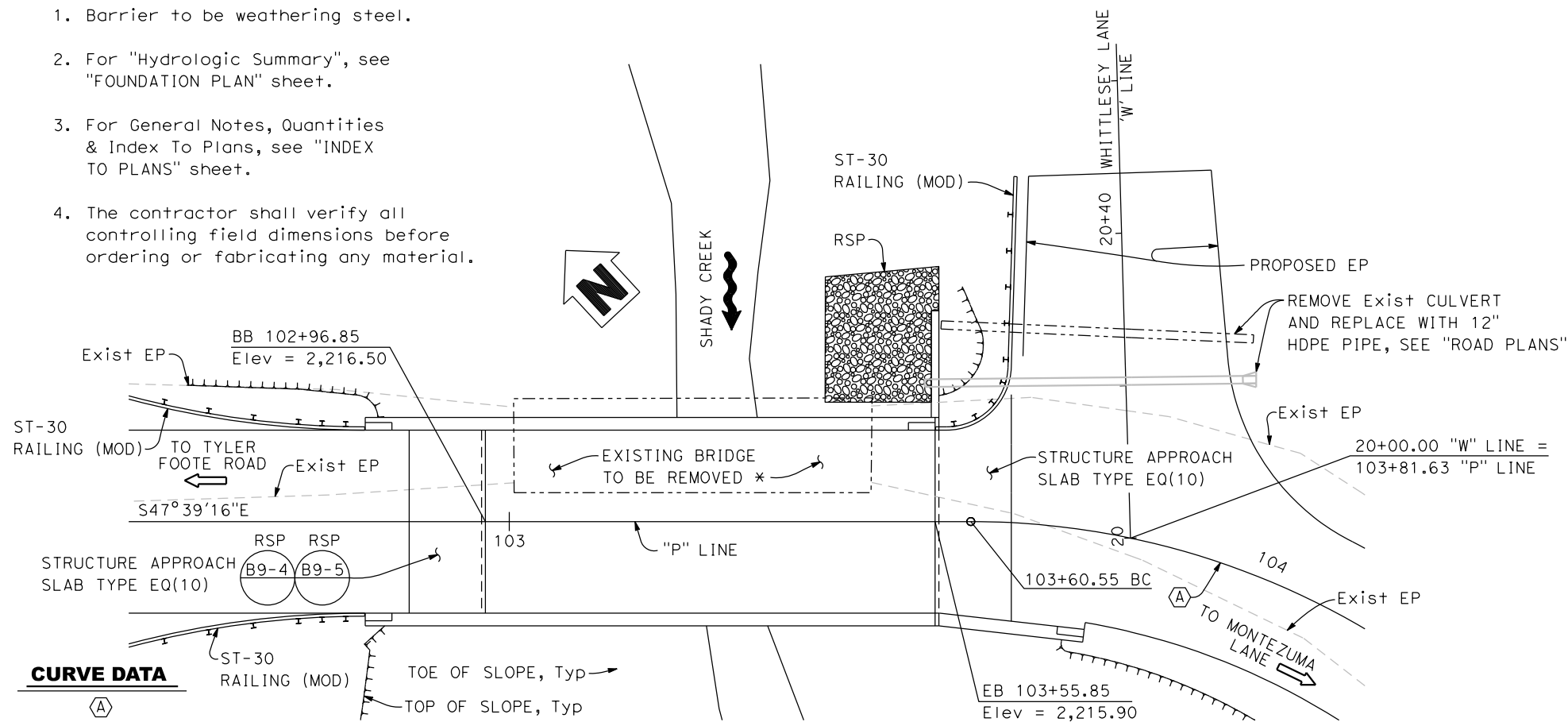
ELEVATION

1" = 10'

* * 100-YEAR WATER SURFACE Elev = 2,202.8'

NOTES:

- Barrier to be weathering steel.
- For "Hydrologic Summary", see "FOUNDATION PLAN" sheet.
- For General Notes, Quantities & Index To Plans, see "INDEX TO PLANS" sheet.
- The contractor shall verify all controlling field dimensions before ordering or fabricating any material.



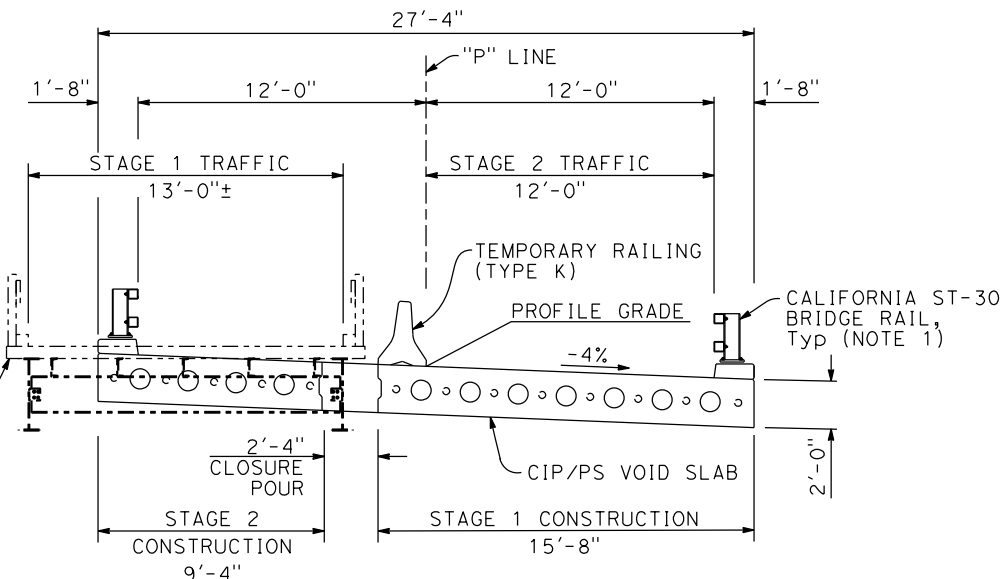
CURVE DATA

(A)
R = 102.00'
Δ = 75°23'54"
T = 78.83'
L = 134.23'

PLAN

1" = 10'

*FOR LIMITS OF BRIDGE REMOVAL, SEE "BRIDGE REMOVAL PLAN" SHEET



TYPICAL SECTION

3/8" = 1'-0"

STANDARD PLANS DATED 2015

Sheet No.	Title
A3A	ABBREVIATIONS (SHEET 1 OF 3)
A3B	ABBREVIATIONS (SHEET 2 OF 3)
A3C	ABBREVIATIONS (SHEET 3 OF 3)
A10A	LEGEND - LINES AND SYMBOLS (SHEET 1 OF 5)
RSP A10B	LEGEND - LINES AND SYMBOLS (SHEET 2 OF 5)
A10C	LEGEND - LINES AND SYMBOLS (SHEET 3 OF 5)
A10D	LEGEND - LINES AND SYMBOLS (SHEET 4 OF 5)
A10E	LEGEND - LINES AND SYMBOLS (SHEET 5 OF 5)
A10F	LEGEND - SOIL (SHEET 1 OF 2)
A10G	LEGEND - SOIL (SHEET 2 OF 2)
A10H	LEGEND - ROCK
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
B0-1	BRIDGE DETAILS
RSP B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
RSP B8-5	CAST-IN-PLACE POST-TENSIONED GIRDER DETAILS
RSP B9-4	STRUCTURE APPROACH - TYPE EQ(10)
RSP B9-5	STRUCTURE APPROACH - SLAB DETAILS
RSP B9-6	STRUCTURE APPROACH - DRAINAGE DETAILS
B11-47	CABLE RAILING
B11-65	CALIFORNIA ST-30 BRIDGE RAIL

STANDARD PLAN SHEET No.

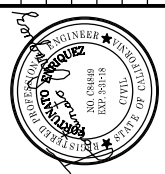
DETAIL No.

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL CALL "UNDERGROUND SERVICE ALERT" (USA) AT 800-227-2600 AT LEAST 2 WORKING DAYS PRIOR TO PERFORMING ANY EXCAVATION

REVISIONS

NO.	DATE	BY	DESCRIPTION



NEVADA COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN/CONSTRUCTION DIVISION



PURDON ROAD OVER
SHADY CREEK BRIDGE
(REPLACEMENT)
GENERAL PLAN

Bridge No: 17C0108
DESIGNED: F. ENRIQUEZ
DRAWN: K. DANG
CHECKED: G. Morales
JOB NO: 2103
DATE: Feb 06, 2018

SHEET
14
OF 25 SHEETS

GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

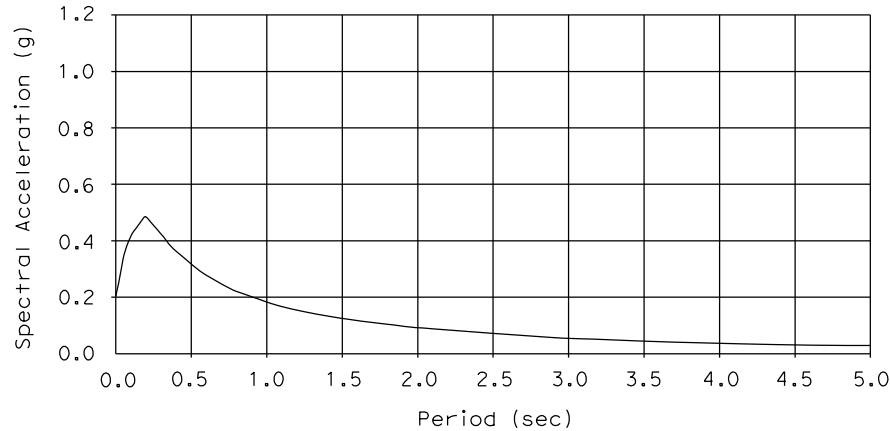
DESIGN: AASHTO LRFD Bridge Design Specifications, 6th Edition with California Amendments, preface dated January 2014

SEISMIC DESIGN: CALTRANS SEISMIC DESIGN CRITERIA (SDC) Version 1.7, April 2013

DEAD LOAD: Includes 0.035 ksf for future wearing surface

LIVE LOAD: HL-93, Caltrans' "Low Boy" and CA P-15 Permit, design vehicular loads.

SEISMIC LOAD: ARS Online Version 2.3.06 with $V_{S30} = 483.1$ m/s and with near fault adjustments



REINFORCED CONCRETE: $f_y = 60$ ksi
 $f'_c = 3.6$ ksi
 $n = 8$

PRESTRESSED CONCRETE: See "PRESTRESSING NOTES" on "TYPICAL SECTION" sheet.

STRUCTURAL STEEL
FOR BARRIER RAILING: ASTM A36

INDEX TO PLANS

SHEET NO.	TITLE
14	GENERAL PLAN
15	INDEX TO PLANS
16	DECK CONTOURS
17	FOUNDATION PLAN
18	ABUTMENT 1 LAYOUT
19	ABUTMENT 2 LAYOUT
20	ABUTMENT DRAINAGE DETAILS
21	TYPICAL SECTION
22	MISCELLANEOUS DETAILS
23	ST-30 RAILING LAYOUT
24	BRIDGE REMOVAL PLAN
25	LOG OF TEST BORINGS



- STRUCTURAL CONCRETE, BRIDGE ($f'_c = 3,600$ psi)
- STRUCTURAL CONCRETE, BRIDGE FOOTING ($f'_c = 3,600$ psi)
- STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER), SEE "PRESTRESSING NOTES" ON "TYPICAL SECTION" SHEET FOR CONCRETE STRENGTH

CONCRETE STRENGTH AND TYPE LIMITS

NO SCALE

REVISIONS				
NO.	DESCRIPTION	BY	DATE	

NEVADA COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN/CONSTRUCTION DIVISION

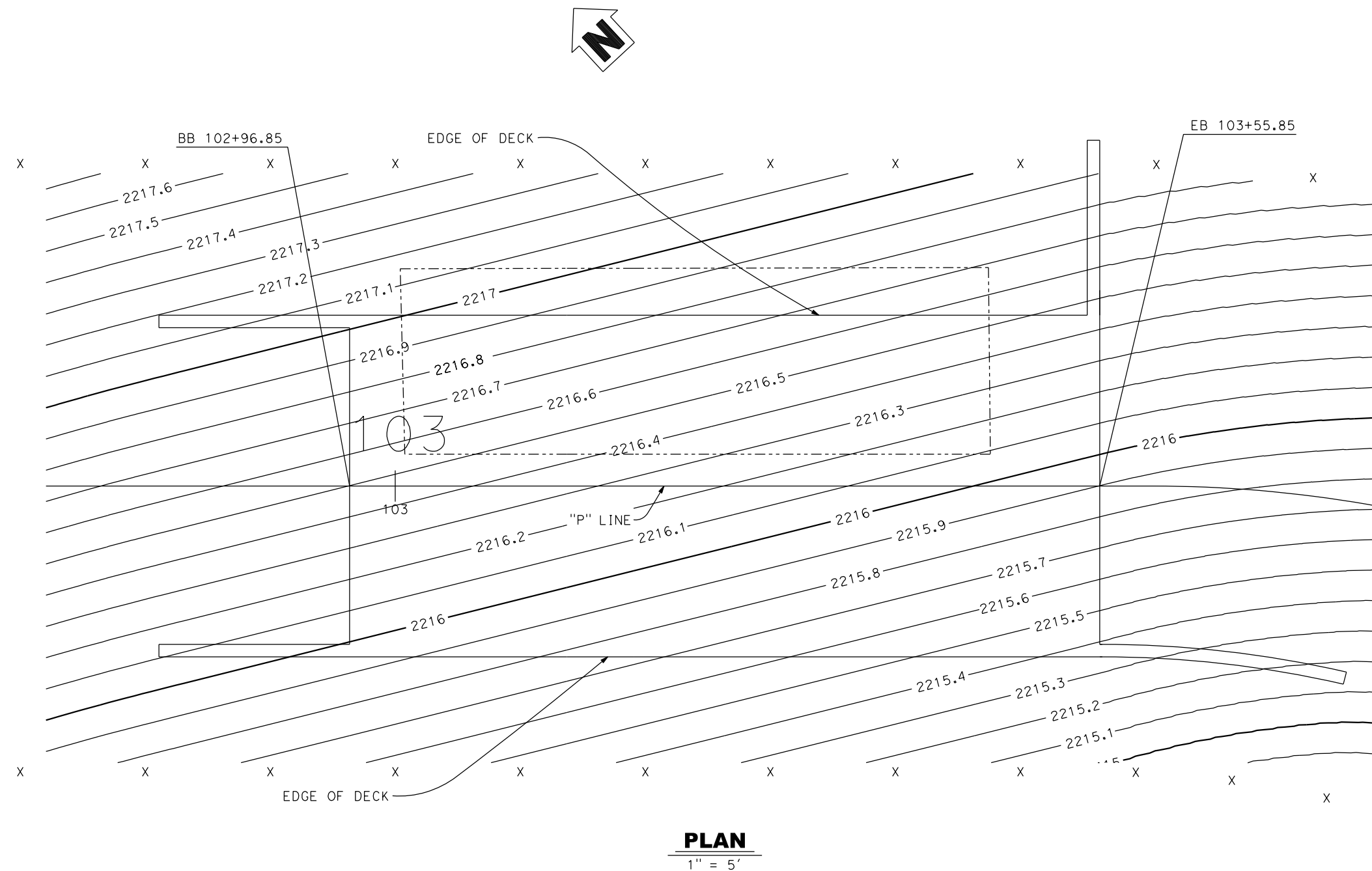
PURDON ROAD OVER
SHADY CREEK BRIDGE
(REPLACEMENT)
INDEX TO PLANS

Bridge No:	17C0108
DESIGNED:	F. ENRIQUEZ
DRAWN:	K. DANG
CHECKED:	G. Morales
JOB NO:	2103
DATE:	Feb 06, 2018

SHEET

15

OF 25 SHEETS



NOTES:

- X Denotes 10' interval along station line
- Contours do not include camber
- Contour interval is 0.10'

REVISIONS			
NO.	DESCRIPTION	BY	DATE



NEVADA COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN/CONSTRUCTION DIVISION



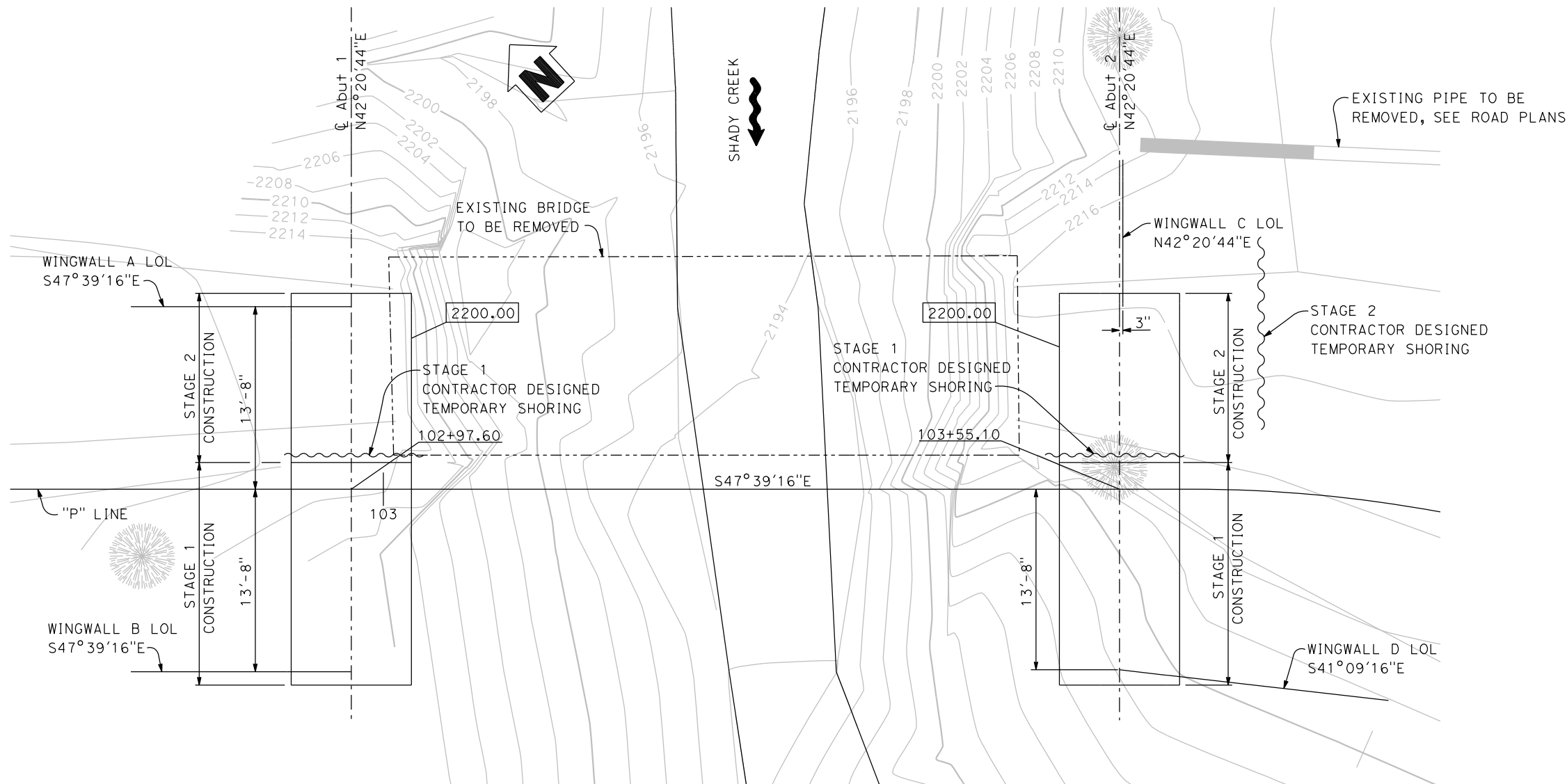
**PURDON ROAD OVER
SHADY CREEK BRIDGE
(REPLACEMENT)
DECK CONTOURS**

Bridge No:	17C0108
DESIGNED:	F. ENRIQUEZ
DRAWN:	K. DANG
CHECKED:	G. Morales
JOB NO:	2103
DATE:	Feb 06, 2018

SHEET

16

OF 25 SHEETS



PLAN
1" = 5'

LEGEND:
[Symbol] Denotes bottom of footing elev

NOTE:
The contractor shall verify all controlling field dimensions before ordering or fabricating any material.

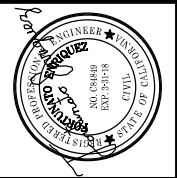
SCOUR DATA TABLE		
Support Location	Long Term (Deg And Contraction) Scout Elev (ft)	Short Term (Local) Scour Depth (ft)**
Abut 1	1.5	0
Abut 2	1.5 *	0

* This elevation is based on the approximate elevations of scour-resistant bedrock.
** Actual short-term scour would be limited to scour-resistant elevation.

HYDROLOGIC SUMMARY				
STRUCTURE	50 YEAR		100 YEAR	
	WSE	FREEBOARD	WSE	FREEBOARD
EXISTING	2202.1	10.9	2202.9	10.1
REPLACEMENT	2201.7	12.1	2202.8	11

Support Location	Load And Resistance Factor Design (LRFD)		
	Service Permissible Net Contact Stress (Settlement) (ksf)	Strength Factored Gross Nominal Bearing Resistance $\phi_b = 0.45$ (ksf)	Extreme Event Factored Gross Nominal Bearing Resistance $\phi_b = 1.00$ (ksf)
Abut 1	4.8	10.0	N/A
Abut 2	4.8	10.0	N/A

REVISIONS			
NO.	DESCRIPTION	BY	DATE



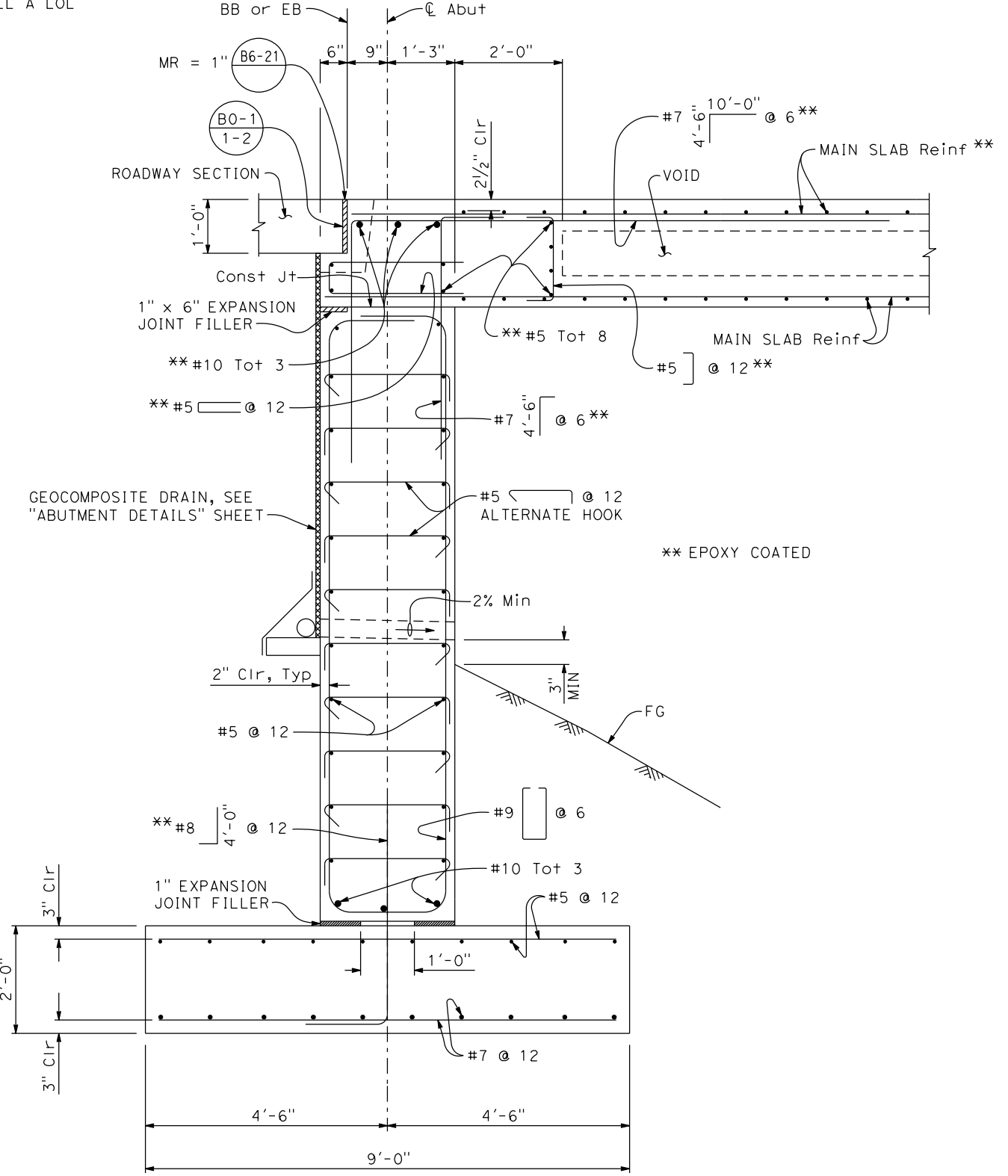
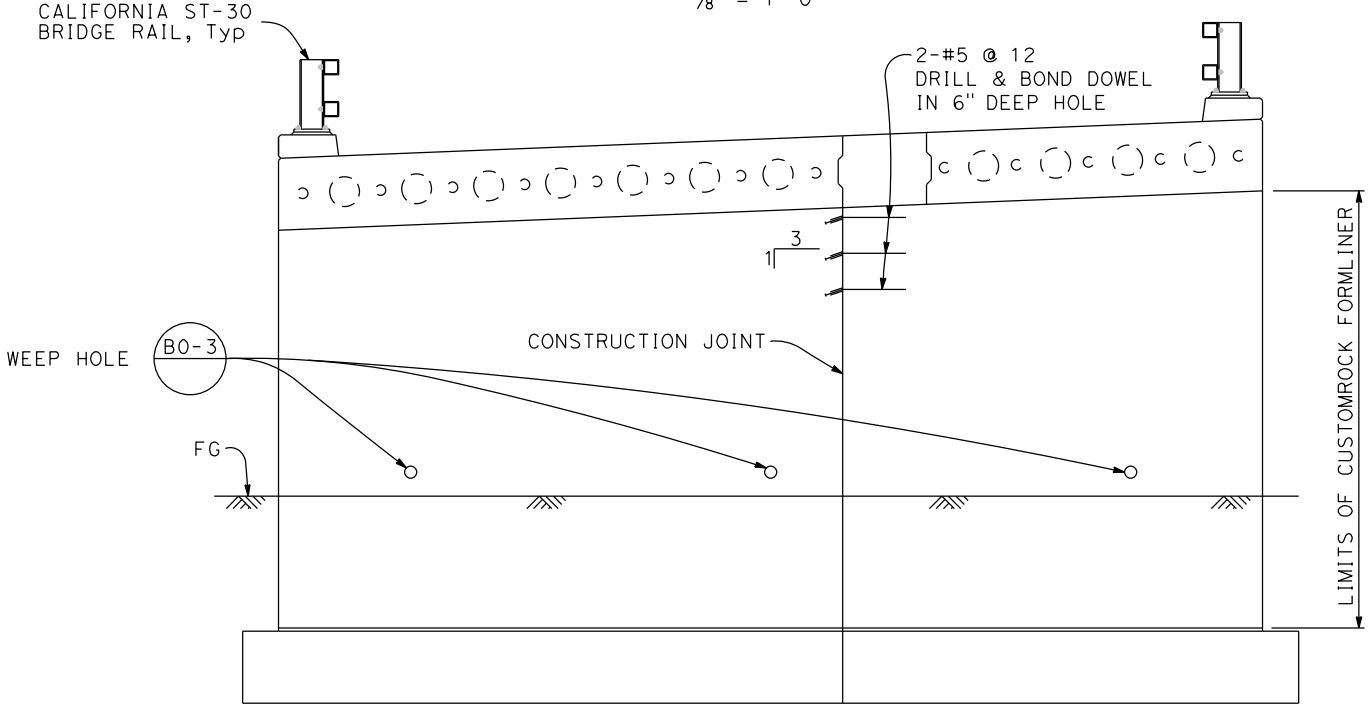
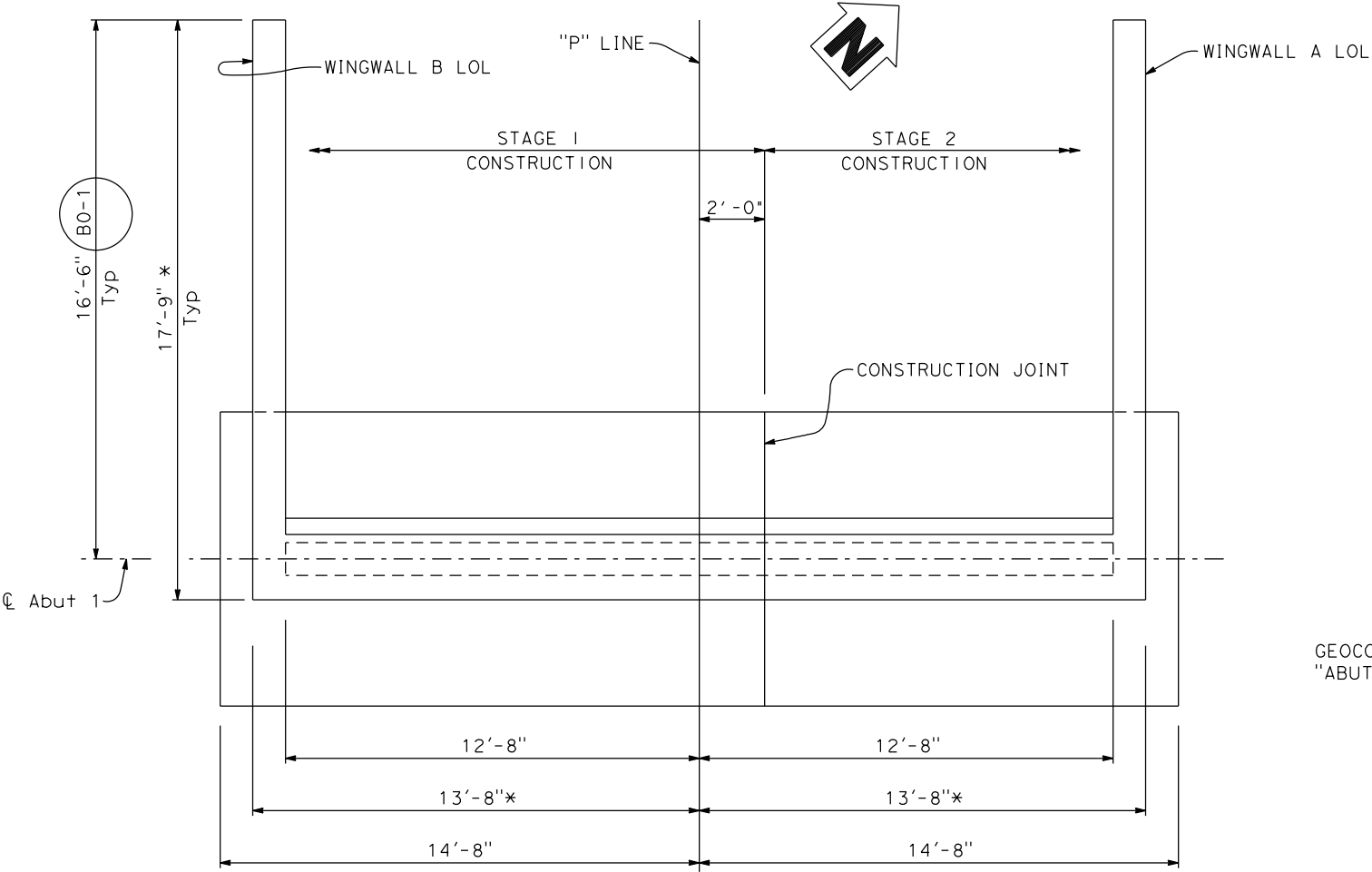
NEVADA COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN/CONSTRUCTION DIVISION



PURDON ROAD OVER
SHADY CREEK BRIDGE
(REPLACEMENT)
FOUNDATION PLAN

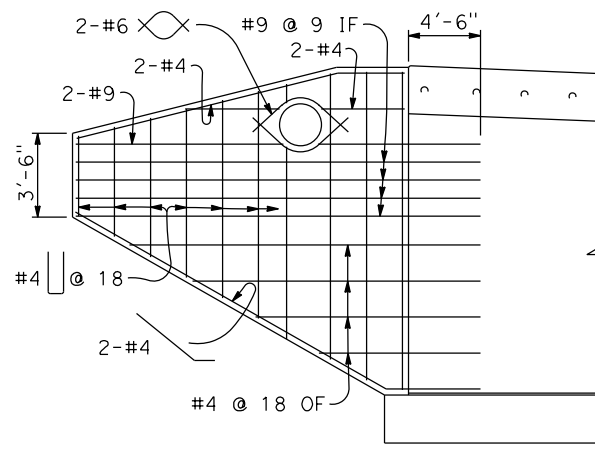
Bridge No: 17C0108
DESIGNED: F. ENRIQUEZ
DRAWN: K. DANG
CHECKED: G. Morales
JOB NO: 2103
DATE: Feb 06, 2018

* LIMITS OF CUSTOMROCK FORMLINER, SEE "ARCHITECTURAL TREATMENT" DETAIL ON "ABUTMENT DETAILS" SHEET



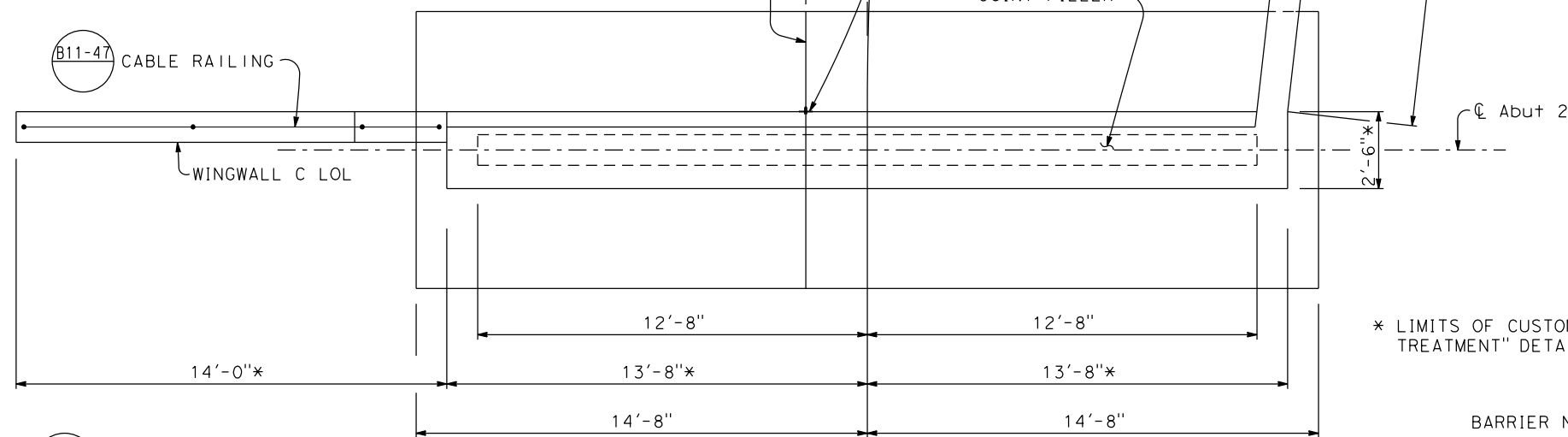
- NOTES:
- For "PRESTRESS ANCHORAGE DETAILS", see "MISCELLANEOUS DETAILS" sheet.
 - The contractor shall verify all controlling field dimensions before ordering or fabricating any material.

REVISIONS			
NO.	DESCRIPTION	BY	DATE
			
NEVADA COUNTY DEPARTMENT OF PUBLIC WORKS DESIGN/CONSTRUCTION DIVISION			
			
PURDON ROAD OVER SHADY CREEK BRIDGE (REPLACEMENT) ABUTMENT 1 LAYOUT			
Bridge No: 17C0108 DESIGNED: F. ENRIQUEZ DRAWN: K. DANG CHECKED: G. Morales JOB NO: 2103 DATE: Feb 06, 2018			
SHEET 18 OF 25 SHEETS			



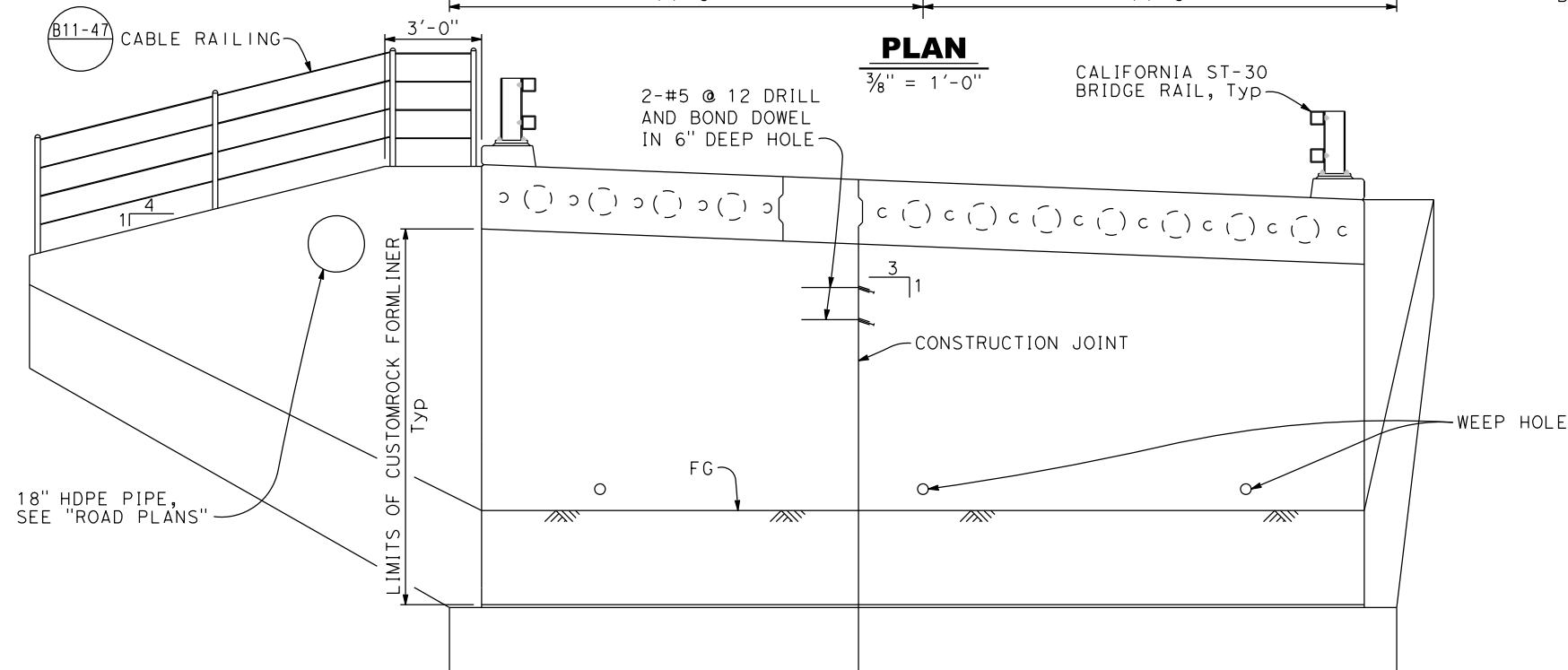
WINGWALL C ELEVATION

1/4" = 1'0"



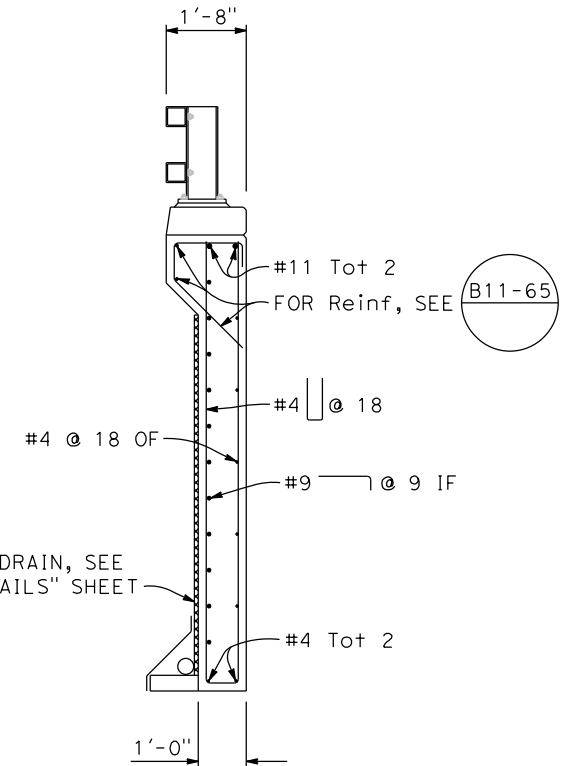
PLAN

3/8" = 1'-0"



ELEVATION

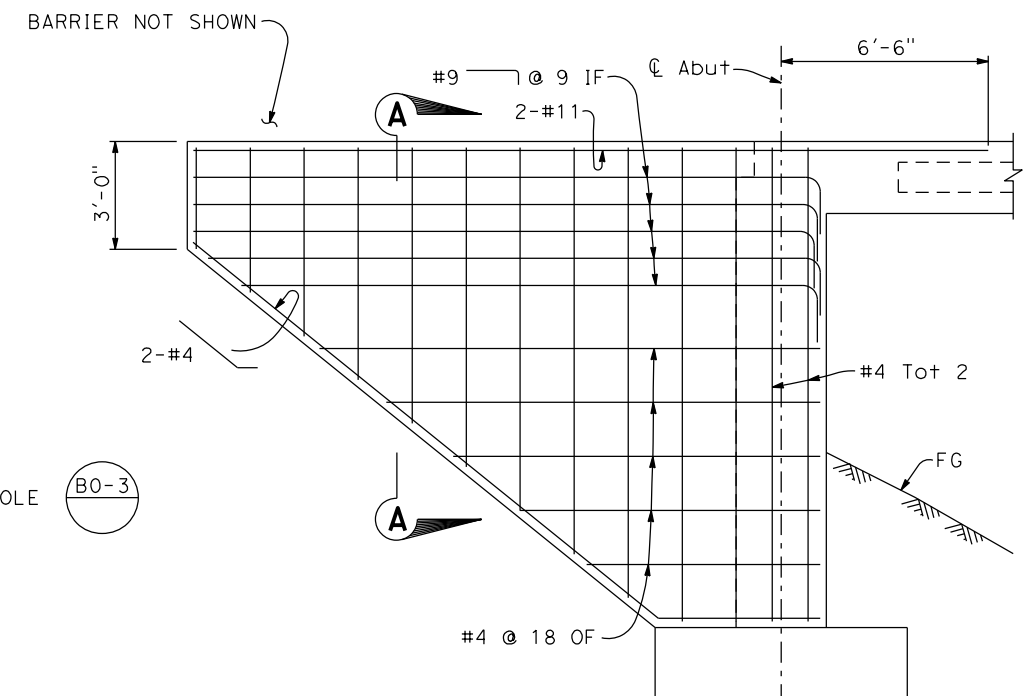
3/8" = 1'-0"



SECTION A-A

1/2" = 1'-0"

* LIMITS OF CUSTOMROCK FORMLINER, SEE "ARCHITECTURAL TREATMENT" DETAIL ON "ABUTMENT DETAILS" SHEET

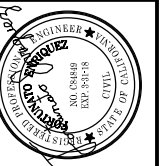


WINGWALL A, B & D ELEVATION

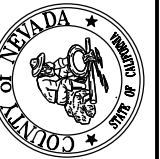
3/8" = 1'-0"

REVISIONS

NO.	DESCRIPTION	BY	DATE



NEVADA COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN/CONSTRUCTION DIVISION



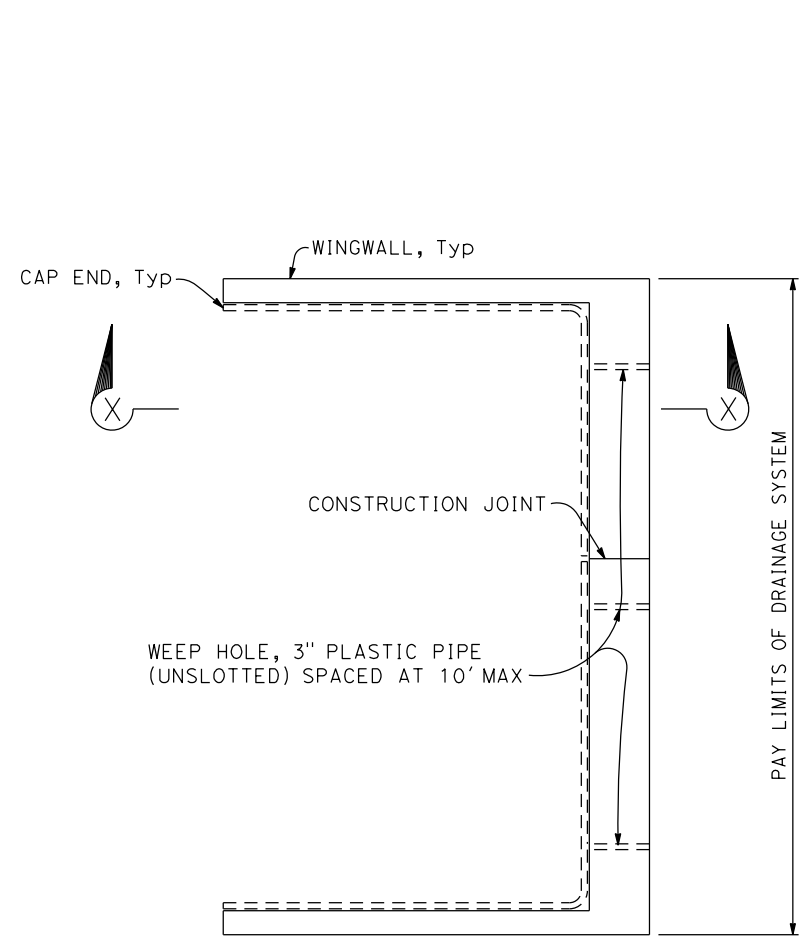
PURDON ROAD OVER
SHADY CREEK BRIDGE
(REPLACEMENT)
ABUTMENT 2 LAYOUT

Bridge No: 17C0108
DESIGNED: F. ENRIQUEZ
DRAWN: K. DANG
CHECKED: G. Morales
JOB NO: 2103
DATE: Feb 06, 2018

SHEET

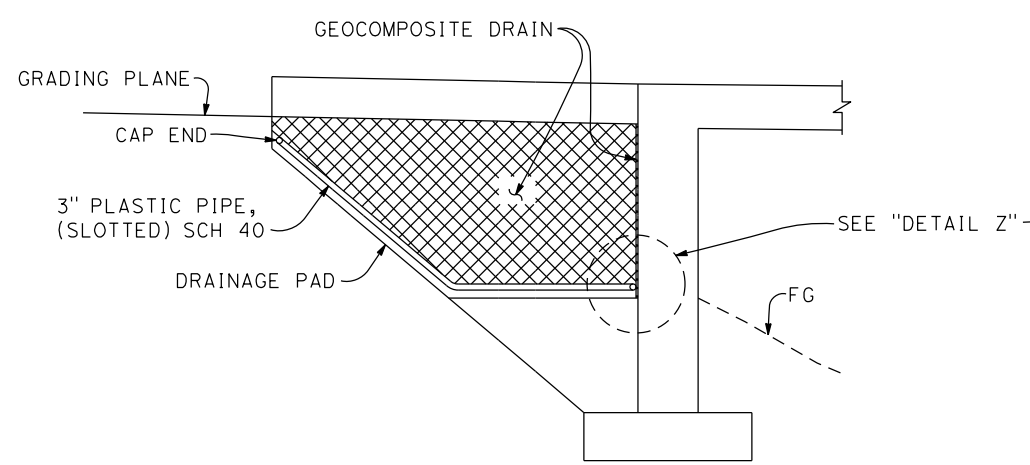
19

OF 25 SHEETS

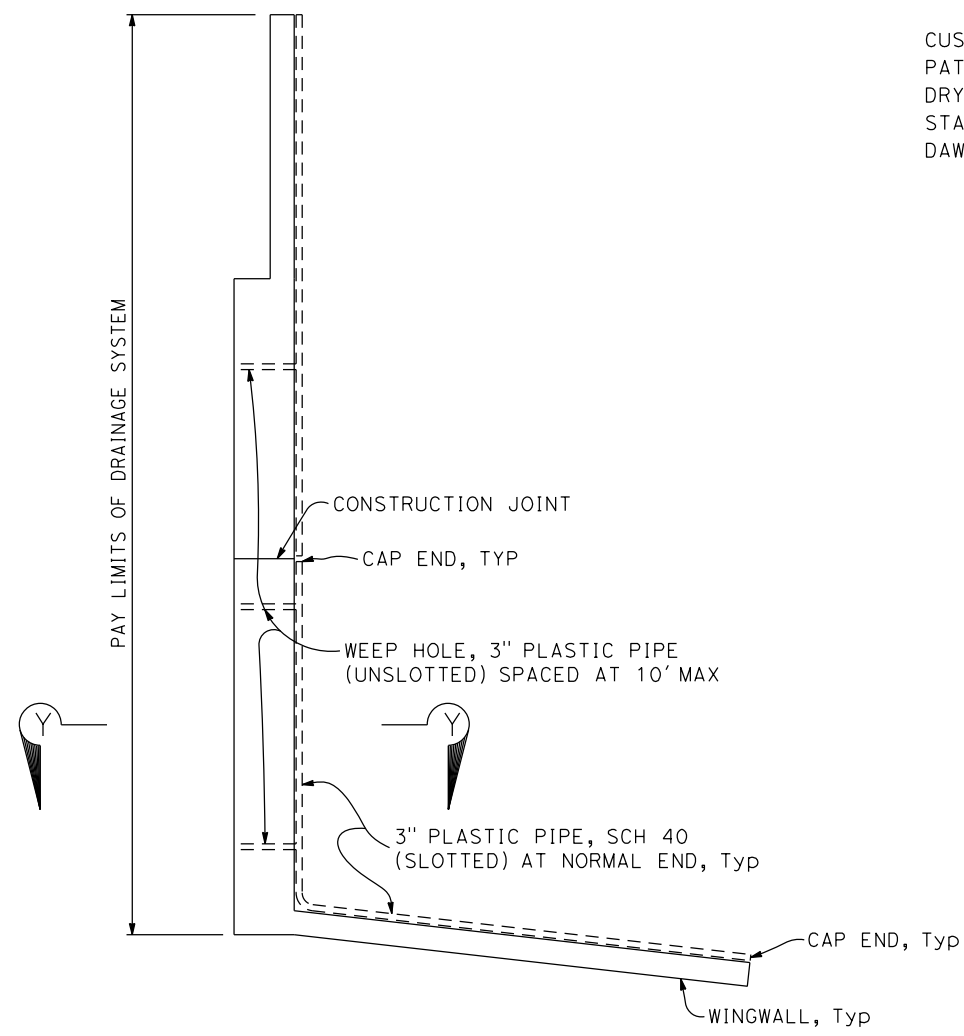


ABUTMENT 1

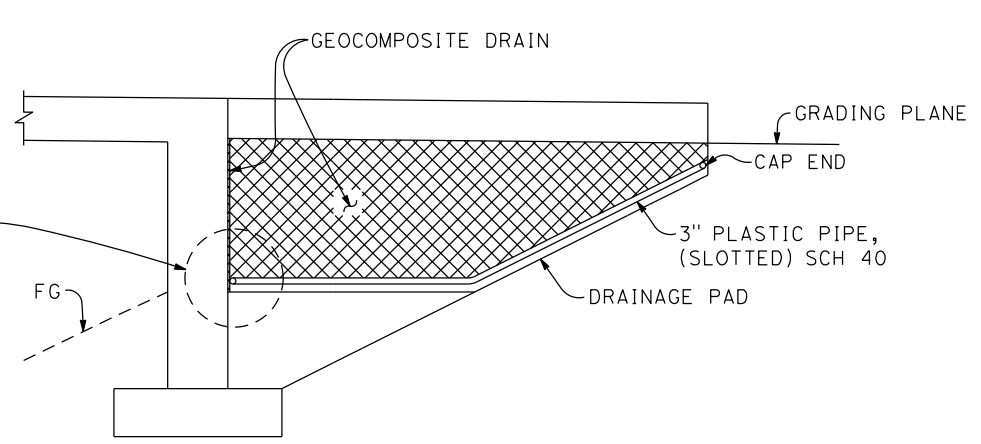
PLAN
1/4" = 1'-0"



SECTION X-X
1/4" = 1'-0"

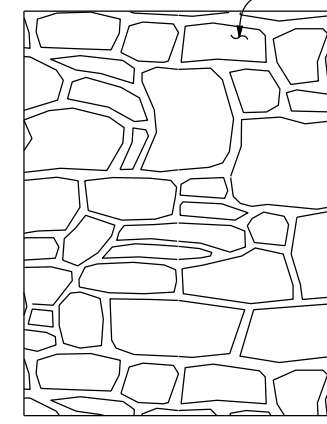


ABUTMENT 2



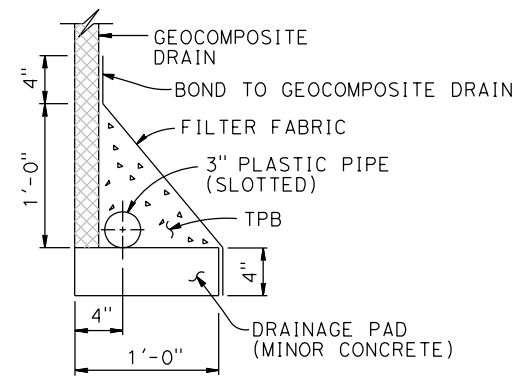
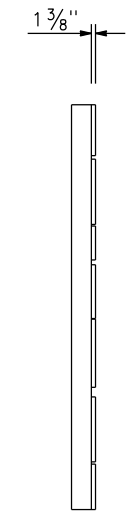
SECTION Y-Y
1/4" = 1'-0"

CUSTOMROCK FORMLINER
PATTERN #12003 NEW ENGLAND
DRY STACK OR EQUIVALENT.
STAIN WITH TK PRODUCTS TAN,
DAWN MIST, AND LIGHT GRAY



ARCHITECTURAL TREATMENT

NO SCALE



DETAIL Z

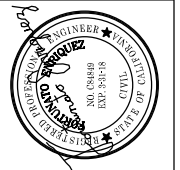
1 1/2" = 1'-0"

NOTE:

The contractor shall verify all controlling field dimensions before ordering or fabricating any material.

REVISIONS

NO.	DESCRIPTION	BY	DATE



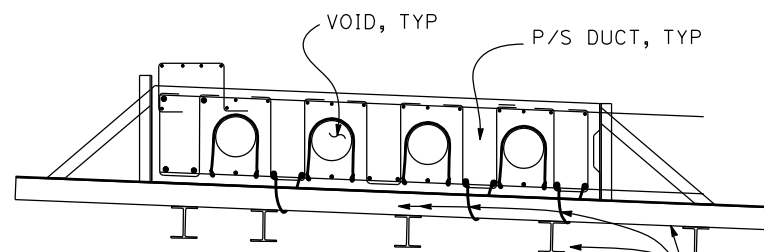
NEVADA COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN/CONSTRUCTION DIVISION



PURDON ROAD OVER
SHADY CREEK BRIDGE
(REPLACEMENT)
ABUTMENT DETAILS

Bridge No: 17C0108
DESIGNED: F. ENRIQUEZ
DRAWN: K. DANG
CHECKED: G. Morales
JOB NO: 2103
DATE: Feb 06, 2018

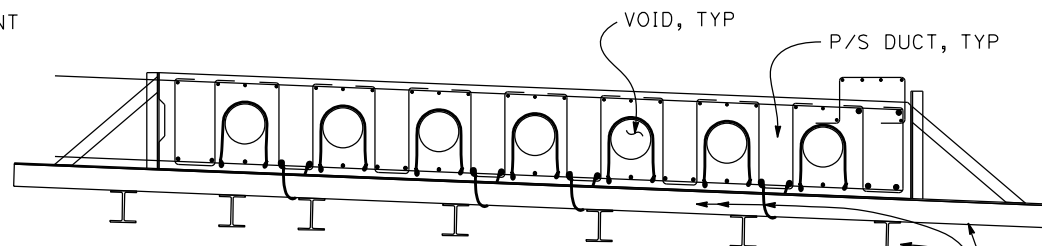
SHEET
20
OF 25 SHEETS



STAGE 2 VOID HOLD DOWN DETAIL

NO SCALE

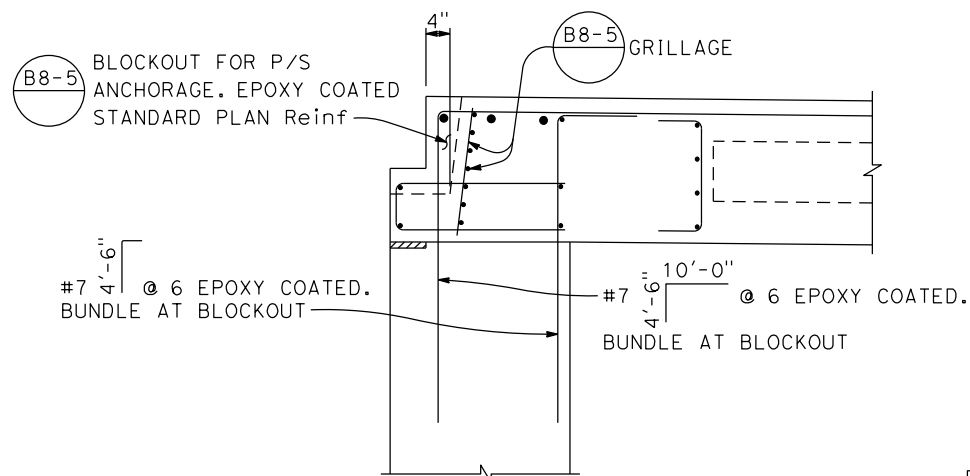
* TIE LONGITUDINAL REINF DOWN TO FALSEWORK TO PREVENT VOIDS FROM LIFTING REINFORCEMENT



STAGE 1 VOID HOLD DOWN DETAIL

NO SCALE

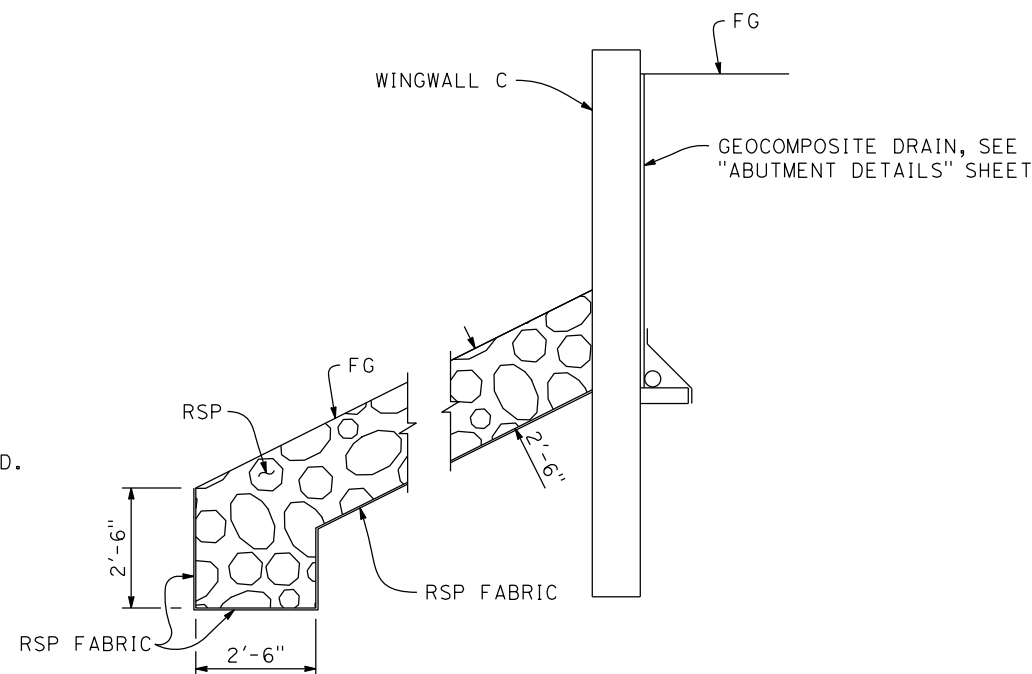
CONTRACTOR DESIGNED FALSEWORK AND VOID TIE DOWNS *



PRESTRESS ANCHORAGE DETAIL

$\frac{3}{4}" = 1'-0"$

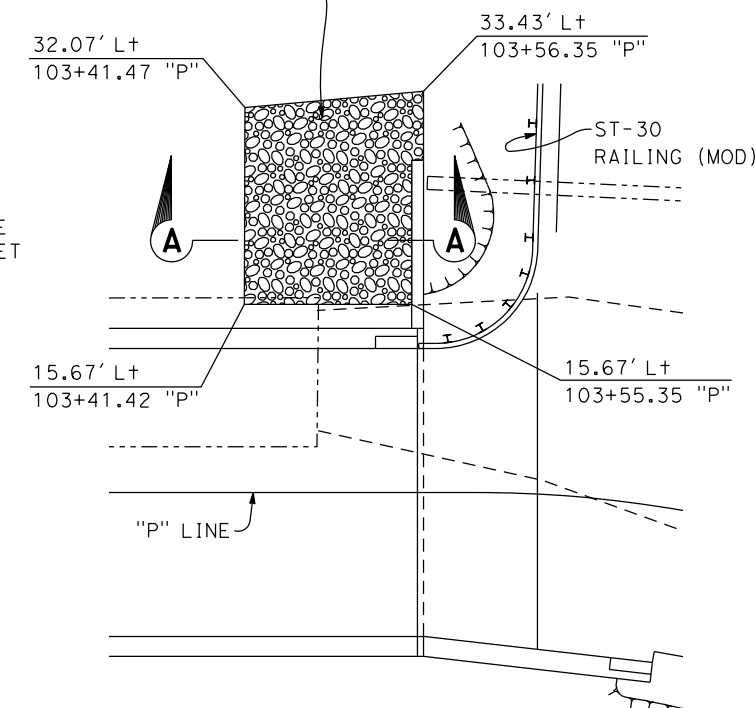
FOR REINFORCEMENT NOT CALLED OUT, SEE "TYPICAL ABUTMENT SECTION" ON "ABUTMENT 1 LAYOUT" SHEET.



SECTION A-A

NO SCALE

ROCK SLOPE PROTECTION (FACING, METHOD B)

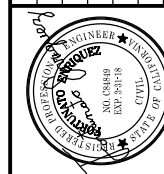


RSP LIMITS

NO SCALE

REVISIONS

NO.	DESCRIPTION	BY	DATE



NEVADA COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN/CONSTRUCTION DIVISION



PURDON ROAD OVER
SHADY CREEK BRIDGE
(REPLACEMENT)
MISCELLANEOUS DETAILS

Bridge No: 17C0108
DESIGNED: F. ENRIQUEZ
DRAWN: K. DANG
CHECKED: G. Morales
JOB NO: 2103
DATE: Feb 06, 2018

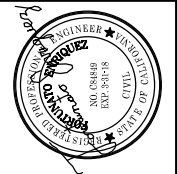
SHEET

22

OF 25 SHEETS

REVISIONS

NO.	DESCRIPTION	BY	DATE



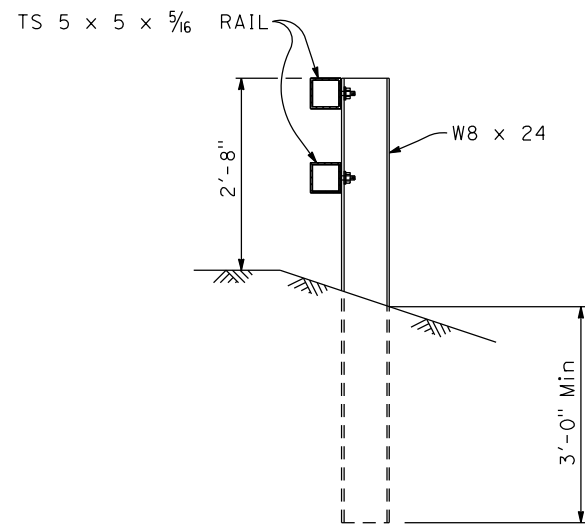
NEVADA COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN/CONSTRUCTION DIVISION



PURDON ROAD OVER
SHADY CREEK BRIDGE
(REPLACEMENT)
ST-30 RAILING LAYOUT

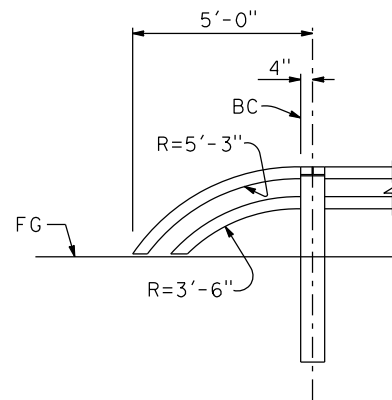
Bridge No: 17C0108
DESIGNED: F. ENRIQUEZ
DRAWN: K. DANG
CHECKED: G. Morales
JOB NO: 2103
DATE: Feb 06, 2018

SHEET
23
OF 25 SHEETS



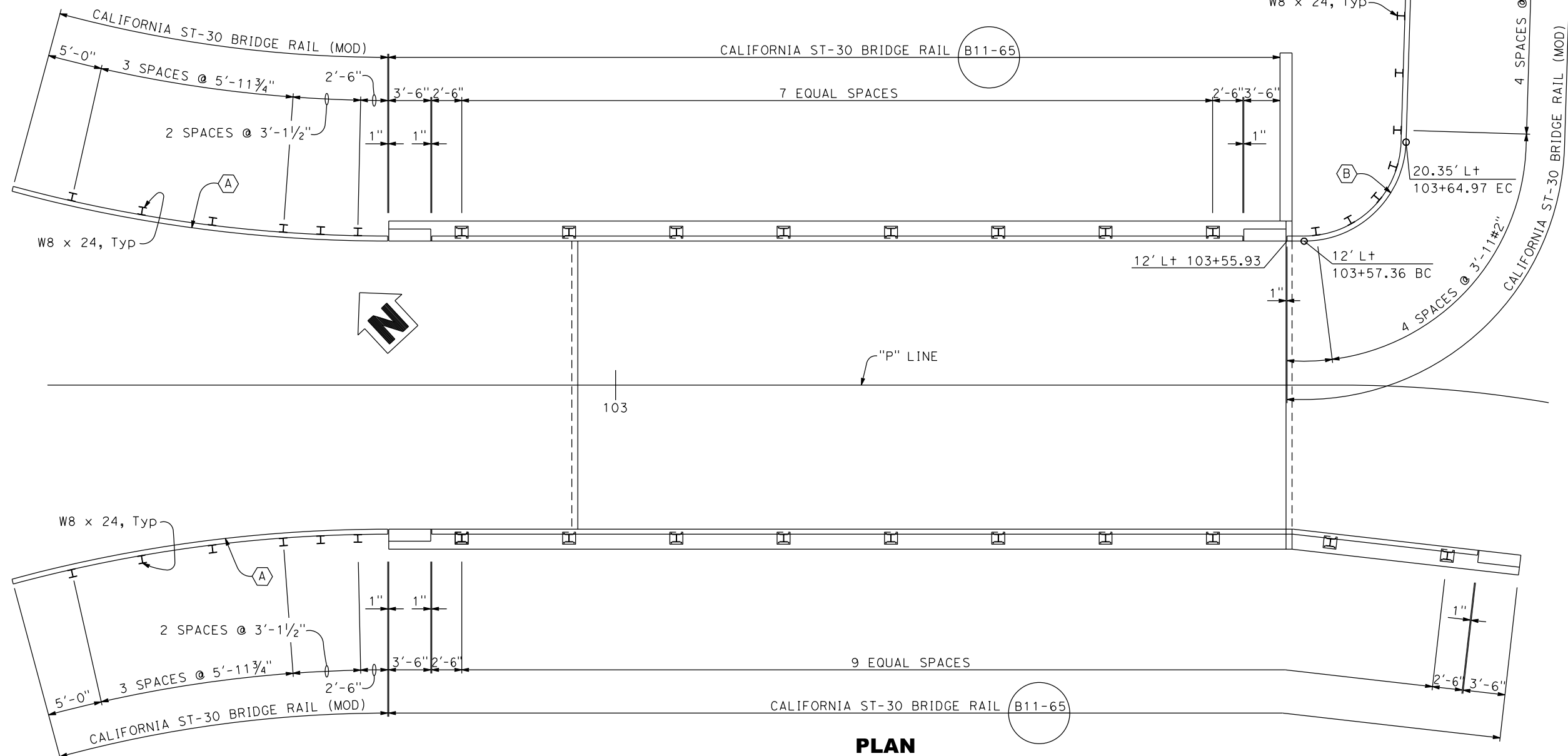
ST-30 (MOD) DETAIL

1" = 1'-0"



ST-30 (MOD) END ELEVATION DETAIL

NO SCALE



PLAN

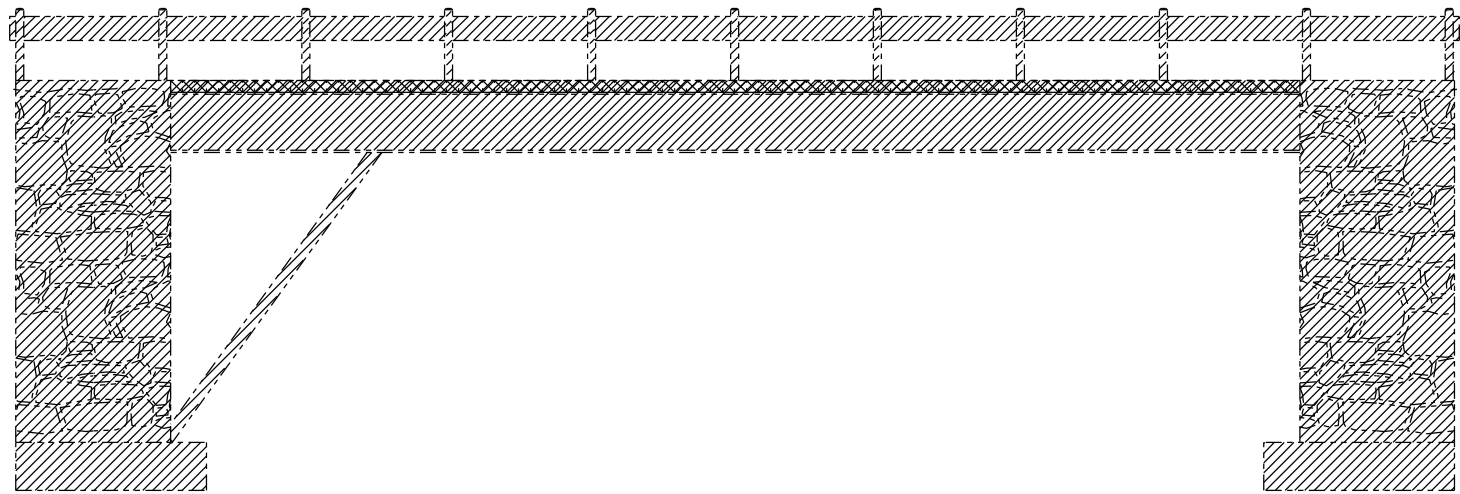
1" = 5'

CURVE DATA

(B)
R = 8.50'
Δ = 88°14'07"
T = 8.24'
L = 13.09'

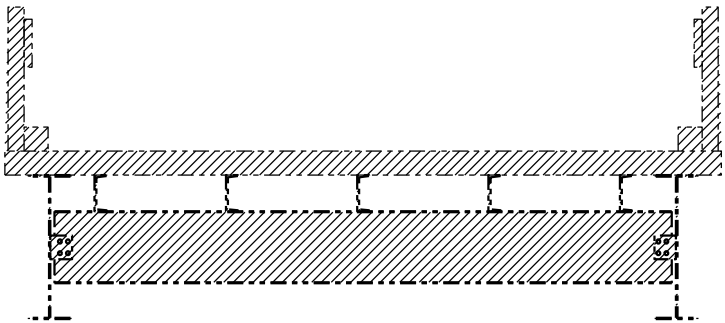
CURVE DATA

(A)
R = 120.00'
Δ = 15°07'09"
T = 15.93'
L = 31.67'



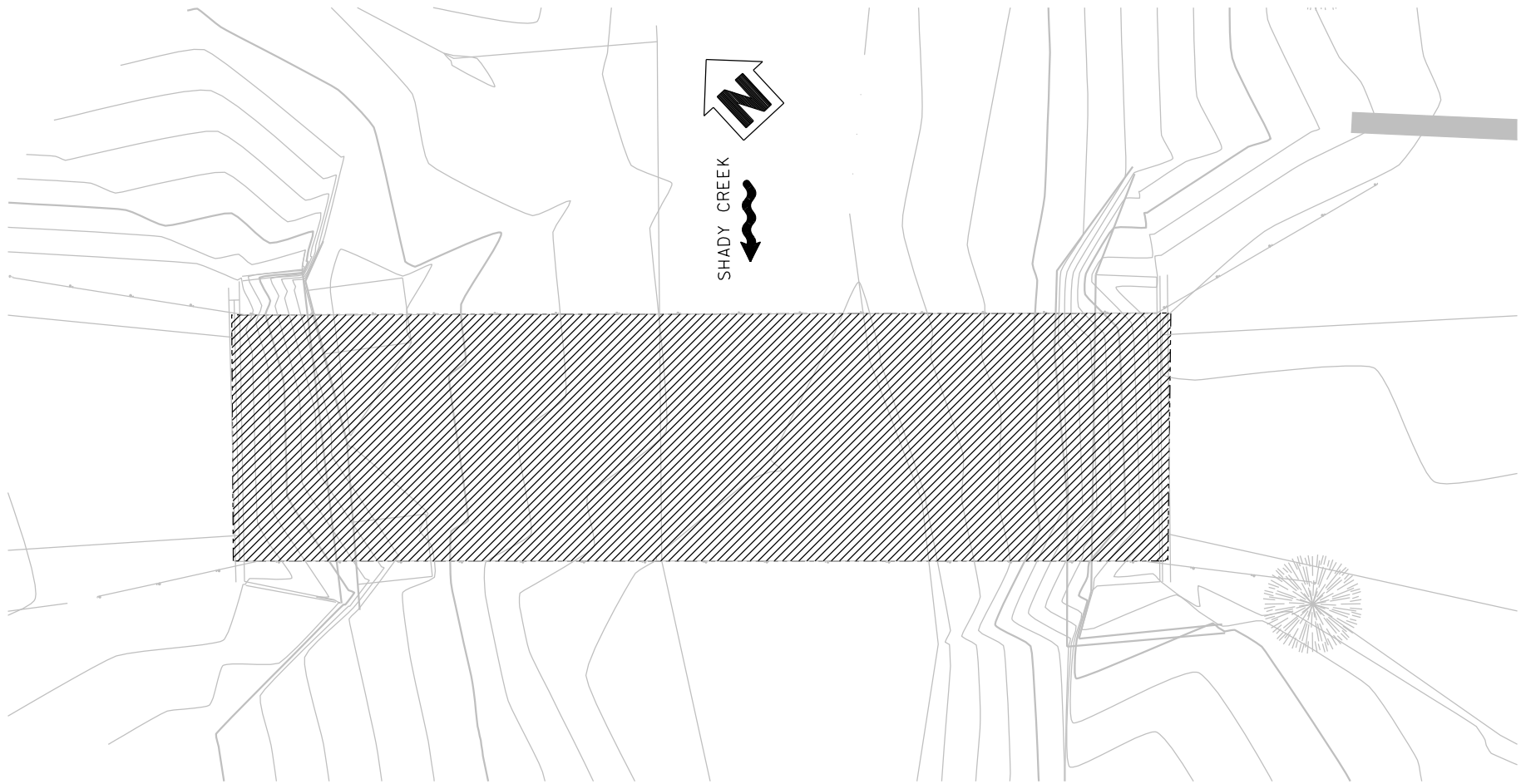
ELEVATION

NO SCALE



TYPICAL SECTION

NO SCALE



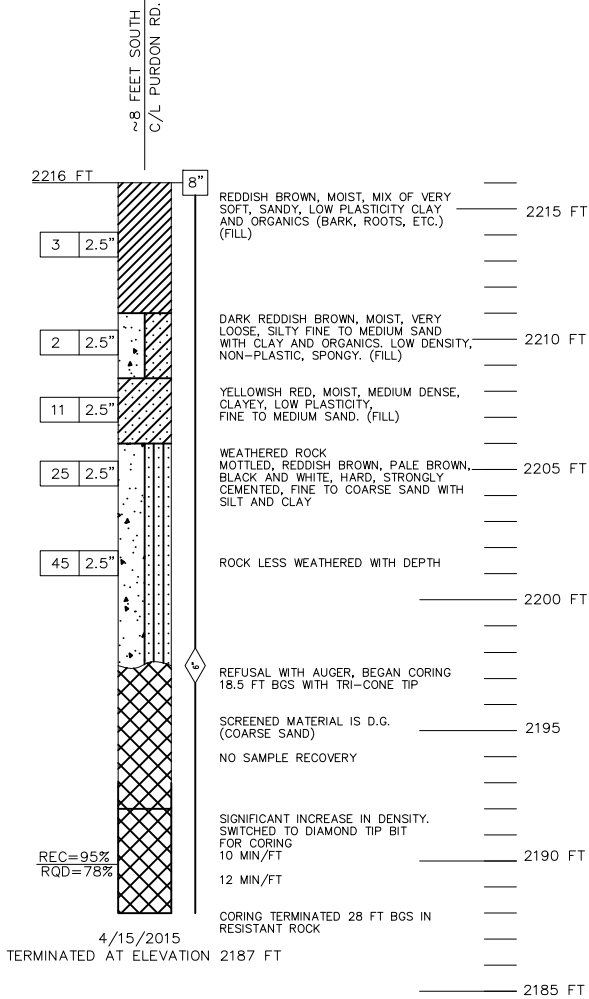
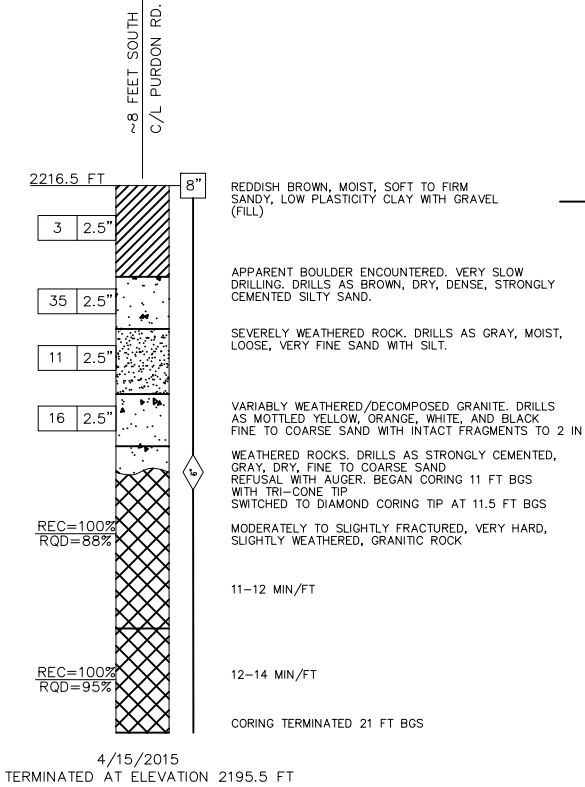
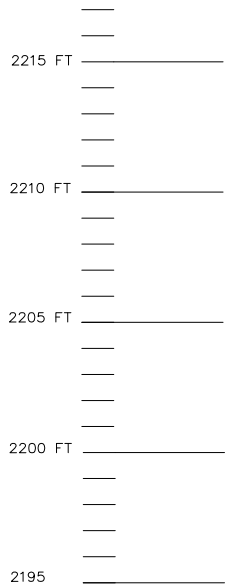
PLAN

NO SCALE

- LEGEND:**
- Denotes existing structure
 -  Denotes bridge removal

REVISIONS				
NO.	DESCRIPTION	BY	DATE	
				
				
NEVADA COUNTY DEPARTMENT OF PUBLIC WORKS DESIGN/CONSTRUCTION DIVISION				
PURDON ROAD OVER SHADY CREEK BRIDGE (REPLACEMENT) BRIDGE REMOVAL PLAN				
Bridge No: 17C0108				
DESIGNED: F. ENRIQUEZ				
DRAWN: K. DANG				
CHECKED: G. Morales				
JOB NO: 2103				
DATE: Feb 06, 2018				
SHEET				
24				
OF 25 SHEETS				

SCALE: 1: 40



REVISIONS				
NO.	DESCRIPTION	BY	DATE	



NEVADA COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN/CONSTRUCTION DIVISION



PURDON ROAD OVER
SHADY CREEK BRIDGE
(REPLACEMENT)
LOG OF TEST BORINGS

DRAWING:
DESIGNED: C. DIEZ
DRAWN: C. DIEZ
CHECKED: R. FINGERSON
JOB NO:
DATE: JULY 10, 2015