COUNTY OF TEHAMA

DEPARTMENT OF PUBLIC WORKS

PROJECT PLANS FOR CONSTRUCTION ON

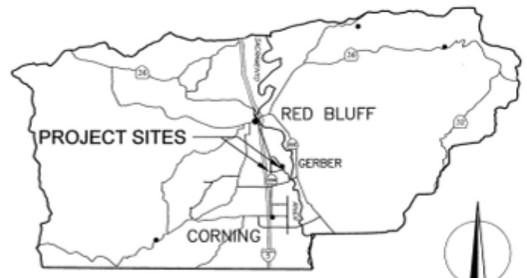
99W/ GERBER RD./ SAN BENITO AVE. INTERSECTIONS IMPROVEMENT

FEDERAL AID HIGHWAY SAFETY IMPROVEMENT HSIP-5908(078)

COUNTY PROJECT NO. 237491

TO BE SUPLEMENTED BY STATE OF CALIFORNIA STD. PLANS DATED 2010

TEHAMA COUNTY



LOCATION MAP

LEGEND

AB	AGGREGATE BASE
AS	AGGREGATE SUBBASE
BC	BEGIN CURVE
BVC	BEGIN VERTICAL CURVE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
D/W	DRIVEWAY
(E)	EXISTING
EG	EXISTING GRADE
EC	END CURVE
EL	ELEVATION
EP	EDGE OF PAVEMENT
ETW	EDGE TRAVELED WAY
EVC	END VERTICAL CURVE
FG	FINISHED GRADE
FL	FLOWLINE
GB	GRADE BREAK
INV	INVERT
OG	ORIGINAL GRADE
OHU	OVER HEAD UTILITY
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
R	RADIAL
R/W	RIGHT OF WAY
RCP	REINFORCED CONCRETE PIPE
SHO	SHOULDER
STA	STATION
TYP	TYPICAL
UG	UNDERGROUND
UP	UTILITY POLE
VC	VERTICAL CURVE

SYMBOLS

- FENCE LINE EXISTING
- FENCE LINE NEW
- FLOWLINE
- LIMITS OF CONSTRUCTION
- RIGHT OF WAY
- OHU — OVER HEAD UTILITY
- T — UNDERGROUND TELEPHONE COPPER
- TF — UNDERGROUND TELEPHONE FIBER
- G — UNDERGROUND GAS LINE
- CTV — CABLE TELEVISION
- CONTROL POINT
- UP • UTILITY POLE
- RUMBLE STRIP

CONTROL

HORIZONTAL:
CALIFORNIA STATE PLANE ZONE 1
NORTH AMERICAN DATUM 1983 (NAD 83)

VERTICAL:
NORTH AMERICAN VEERTICAL DATUM 1988 (NAD 88)

CALL UTILITY NOTIFICATION CENTER OF CALIFORNIA
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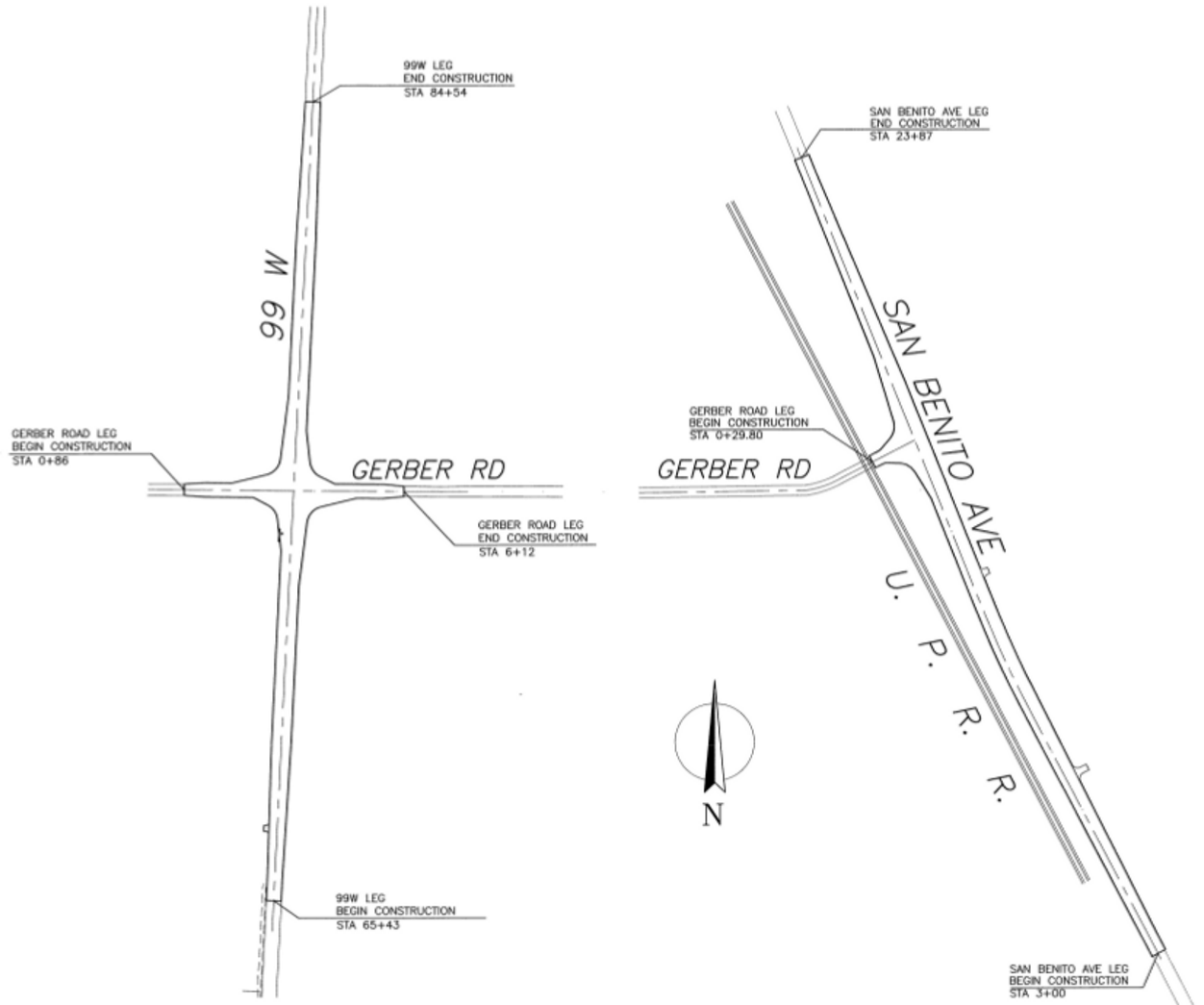

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9-5-16

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DIRECTOR OF PUBLIC WORKS

REGISTERED PROFESSIONAL ENGINEER GARY B. ANTONE C 36077 CIVIL STATE OF CALIFORNIA

No.	REVISION:	BY:	DATE:

TEHAMA COUNTY PUBLIC WORKS
9380 San Benito Ave.
Gerber, Ca 96035
(530) 385-1462

SCALE	HORIZ: N/A	DRAWN BY: SR4/TAC	DATE: 2/2/2016
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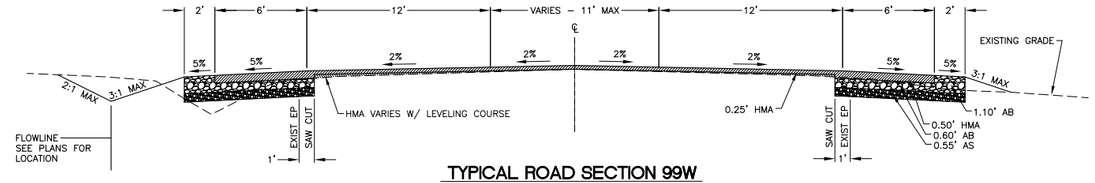
			DATE:

SAN BENITO/ GERBER/ 99W
INTERSECTION IMPROVEMENT
TITLE SHEET

PROJECT NO.: 237491

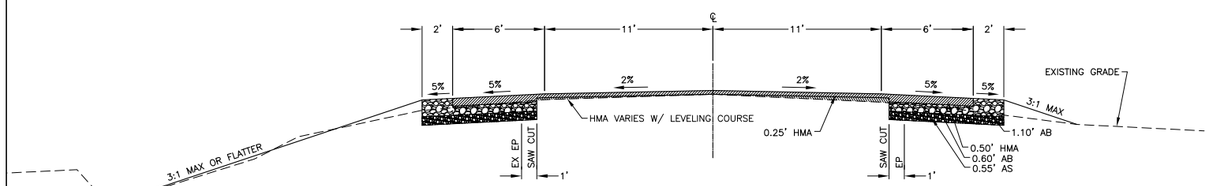
SHEET NO. T-1 | PAGE NO. 1/17

Prop_Gerber_99W.dwg



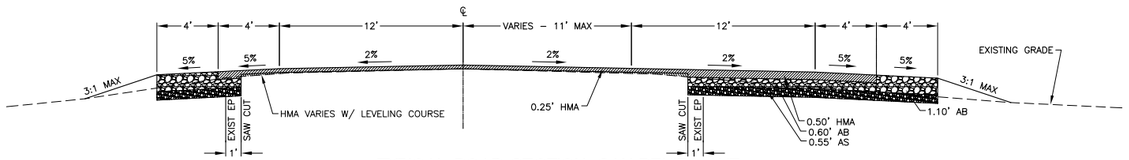
TYPICAL ROAD SECTION 99W

STA 65+93 TO 73+00.25
STA 77+47.04 TO 84+54



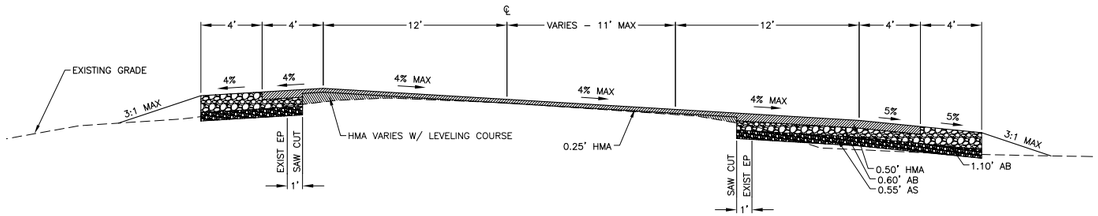
TYPICAL ROAD SECTION GERBER RD AT 99W

STA 1+36 TO 1+99.77
STA 4+96.50 TO 5+62



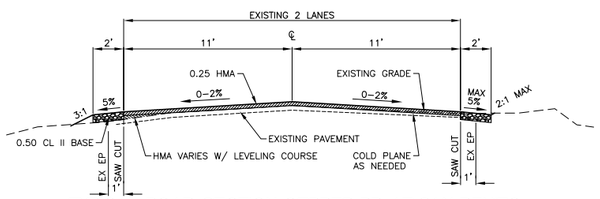
TYPICAL ROAD SECTION SAN BENITO AVE.

STA 3+50 TO 7+80.85
STA 14+20.09 TO 14+37.38
STA 18+80.28 TO 23+43.67



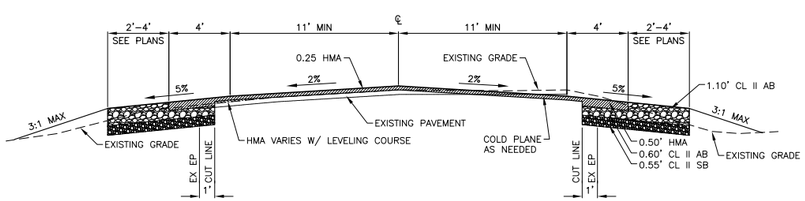
SUPERELEVATION ROAD SECTION SAN BENITO AVE.

STA 7+80.85 TO 14+20.09



TYPICAL ROAD SECTION GERBER RD AT SAN BENITO

STA 0+29.80 TO 0+40

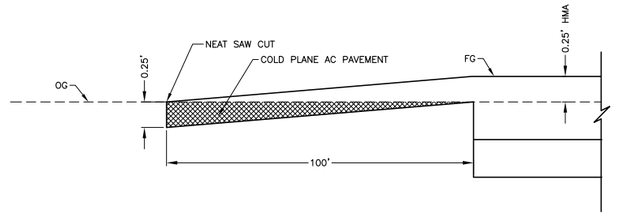


TYPICAL ROAD SECTION GERBER RD AT SAN BENITO

STA 0+40 TO 1+32.75

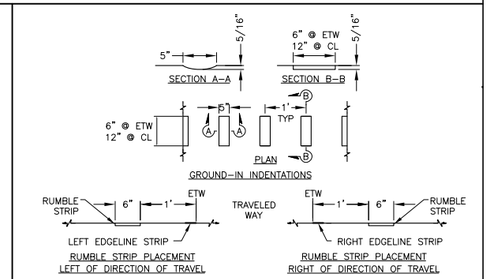
Gerber Road - 99W - San Benito Avenue Roadway Items

LOCATION	HOT MIX ASPHALT (TYPE B)	HOT MIX ASPHALT (TYPE B) LEVELING COURSE	CLASS 2 AGGREGATE BASE	CLASS 2 AGGREGATE SUBBASE	ROADWAY EXCAVATION (GROSS)	ROADWAY FILL (GROSS)	ERROSION CONTROL HYDROSEED	ROCK SLOPE PROTECTION No. 2 METHOD B	REMOVE 12" CMP	INSTALL 12" CPM CULVERT	INSTALL 28"X20" CMP CULVERT	COLD PLANE ASPHALT CONCRETE
	CY	CY	CY	CY	CY	CY	SF	SF	EA	LF	LF	SY
San Benito Ave.	1071	133	1603	530	1368	807	112395					14460
Gerber Road @ San Benito Ave.	32		37	20	45	20	0					
99W	1179	68	1122	592	2128	658	97974	433	1	22		2290
Gerber Road @ 99W	330		392	180	2138	107	0		2		198	
TOTALS	2612	201	3154	1322	5679	1592	210369	433	3	22	198	16750
CONVERSION RATE	x 2.04	x 2.04	x 1.89	x 1.89								
CONVERTED UNITS	5328.48 TONS	410.04 TONS	5961.06 TONS	2498.58 TONS								



TYPICAL HMA TAPER CONFORM

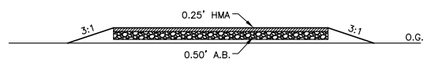
NTS



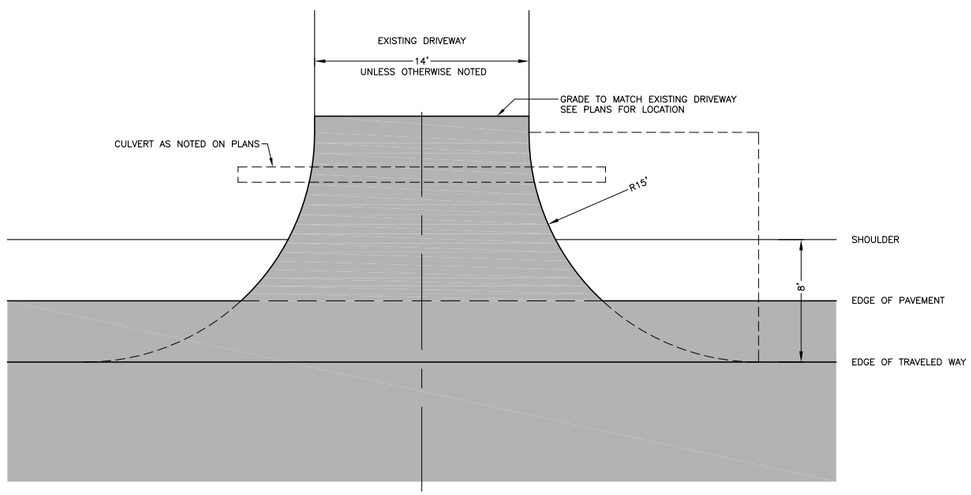
NOTES:

1. Define limits of Rumble Strip by station.
2. A 1' offset from the edge of traveled way to the edge of the rumble strip shall be used for rumble strip placement right of the direction of travel.

SHOULDER RUMBLE STRIPS AT 99W



SECTION



PLAN

TYPICAL DRIVEWAY DETAIL

No.	REVISION:	BY:	DATE:

RENEWAL 12/31/2017
REGISTERED PROFESSIONAL ENGINEER
STEVEN S. ROSSER
C 78389
CIVIL
STATE OF CALIFORNIA

TEHAMA COUNTY
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9380 San Benito Ave.
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COUNTY OF TEHAMA

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SAN BENITO/ GERBER/ 99W
INTERSECTION IMPROVEMENT
TYP ROAD SECTIONS & DETAILS

PROJECT NO.: 237491

SHEET NO.	PAGE NO.
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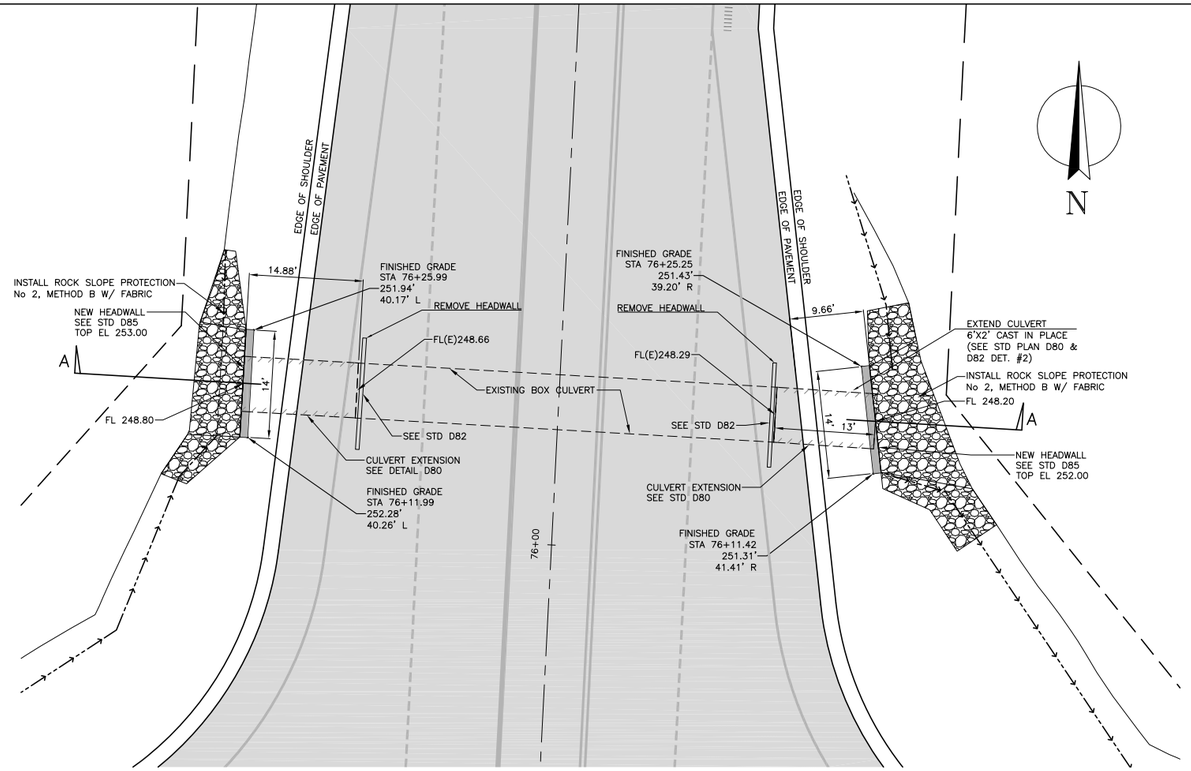
typ_Gerber_99W.dwg



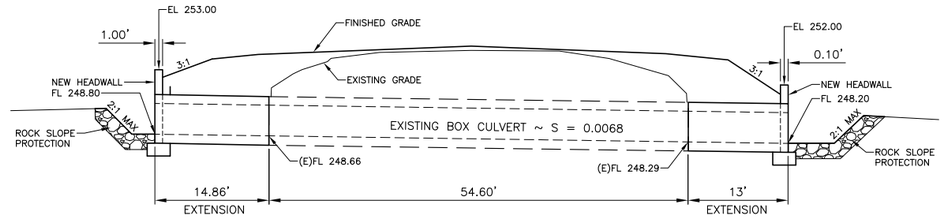
BOX CULVERT PLAN

1" = 10'

BOX CULVER NOTES:

1) DETAIL A–A IS SCHEMATIC IN NATURE SEE CALTRANS STANDARD PLANS (2010) D80, D82 & D85 FOR MORE INFORMATION.

2) EXTEND HEIGHT OF PARAPET AS NEEDED TO ACHIEVE REQUIRED HEIGHT. HORIZONTAL SPACING OF REINFORCEMENT SHALL NOT EXCEEDE 12" O.C.



BOX CULVERT SECTION A-A

HORIZ. 1" = 10'
VERT. 1" = 5'

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PROJECT NO.: 237491

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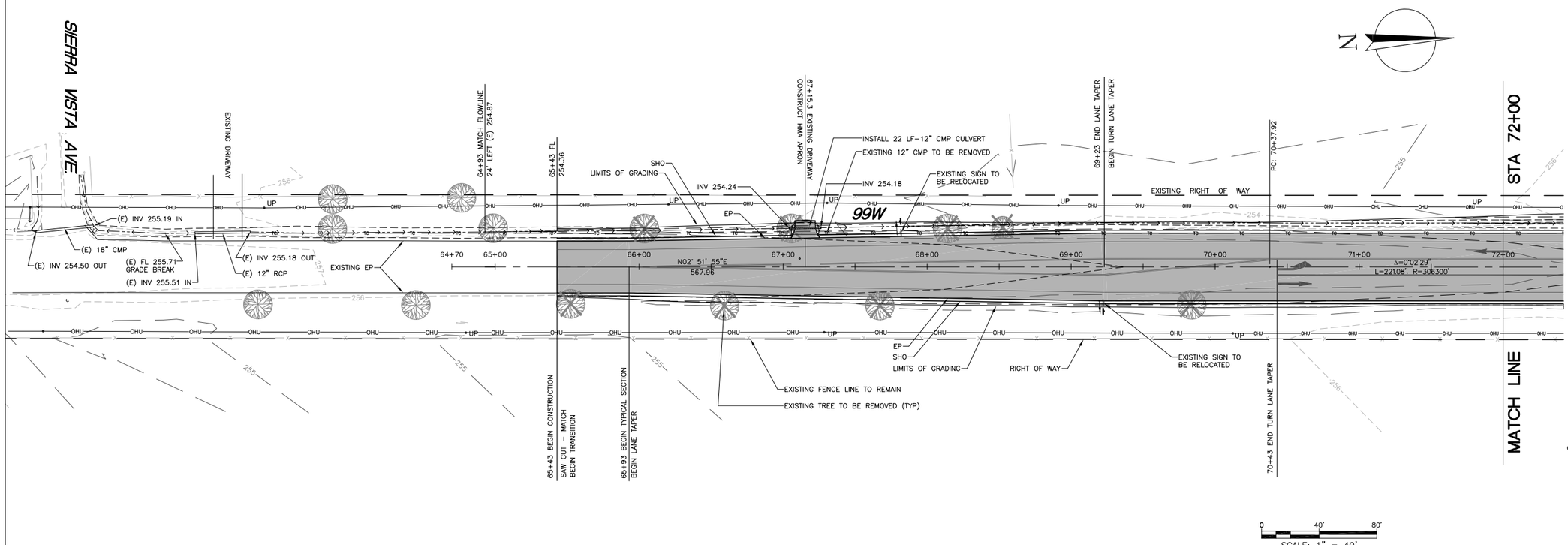

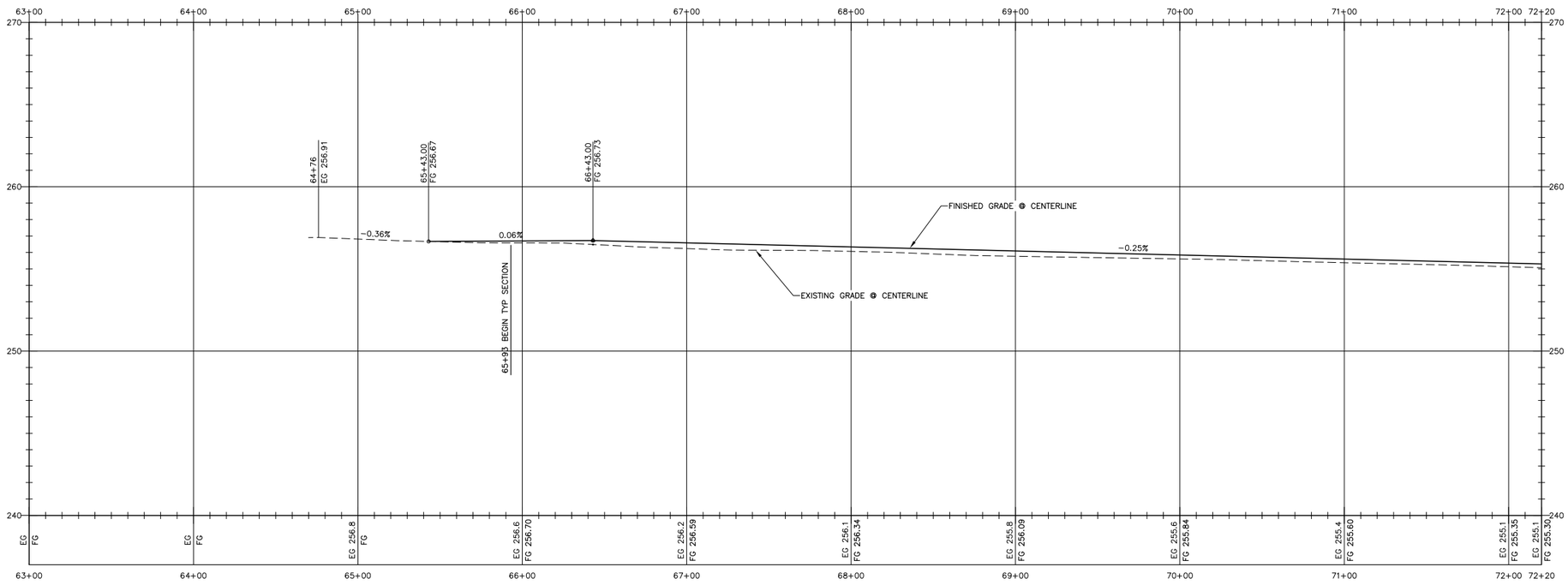

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KENNETH S. ROSSER
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SCALE	HORIZ: 1:=40'	DRAWN BY: SRA/TAC	CHECKED BY:
	VERT: 1"=4'	DATE: 2/1/2016	DATE:

SAN BENITO/ GERBER/ 99W INTERSECTION IMPROVEMENT
99W PLAN & PROFILE

PROJECT NO.: 237491

SHEET NO.	PAGE NO.
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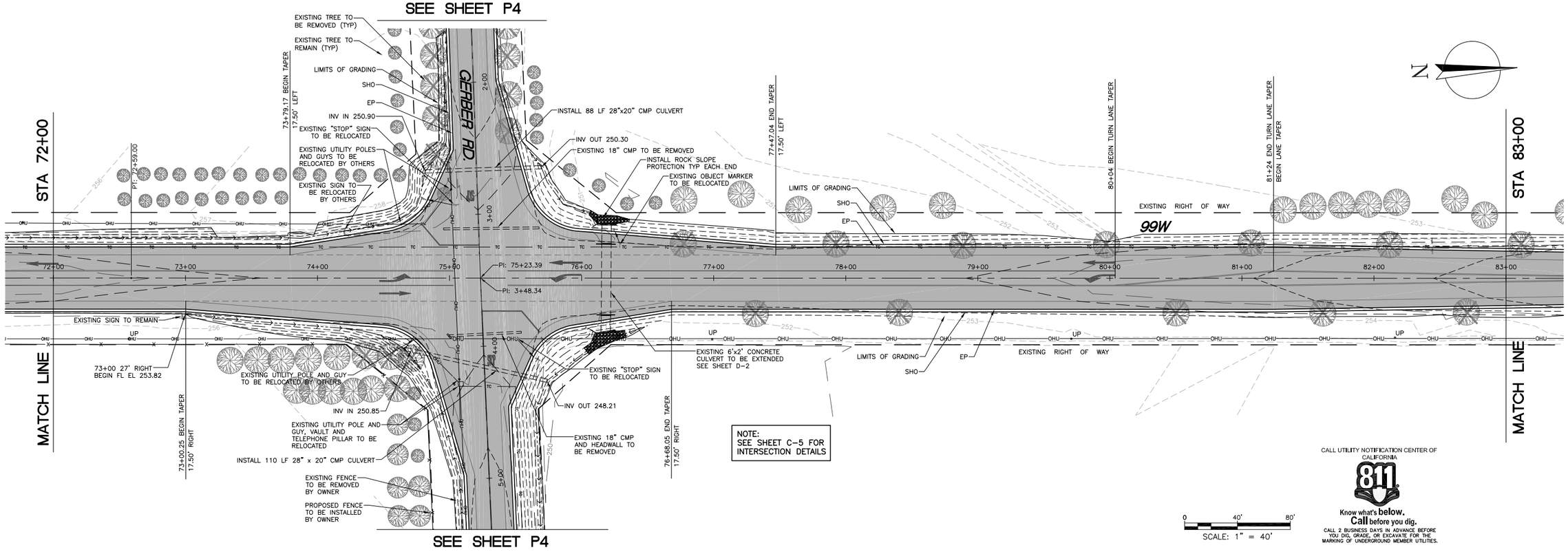

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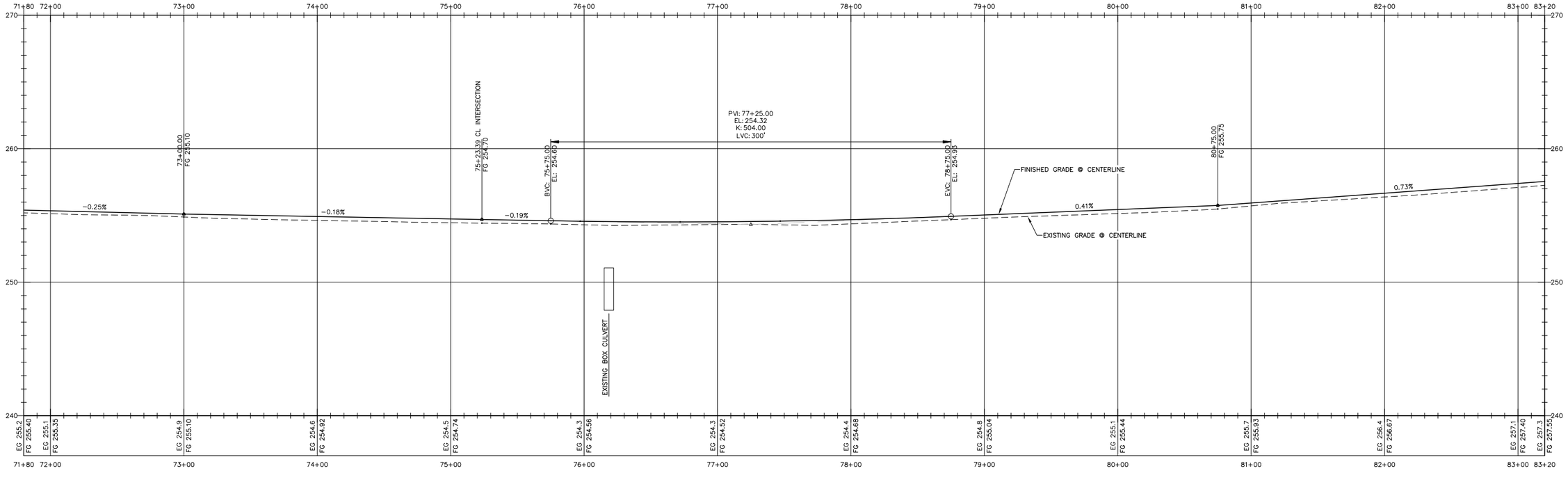

REGISTERED PROFESSIONAL ENGINEER STEVEN S. ROSSER C 78389 CIVIL STATE OF CALIFORNIA

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99W PLAN & PROFILE

PROJECT NO.: 237491

SHEET NO. C-2

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0 40' 80'

SCALE: 1" = 40'

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PROFESSIONAL ENGINEER REGISTERED KELLY N. ROSSER C 78389 CIVIL STATE OF CALIFORNIA

TEHAMA COUNTY
PUBLIC WORKS

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COUNTY OF TEHAMA

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	VERT: 1"= 4'	DATE: 2/2/2016	DATE:

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99W PLAN & PROFILE

PROJECT NO.: 237491

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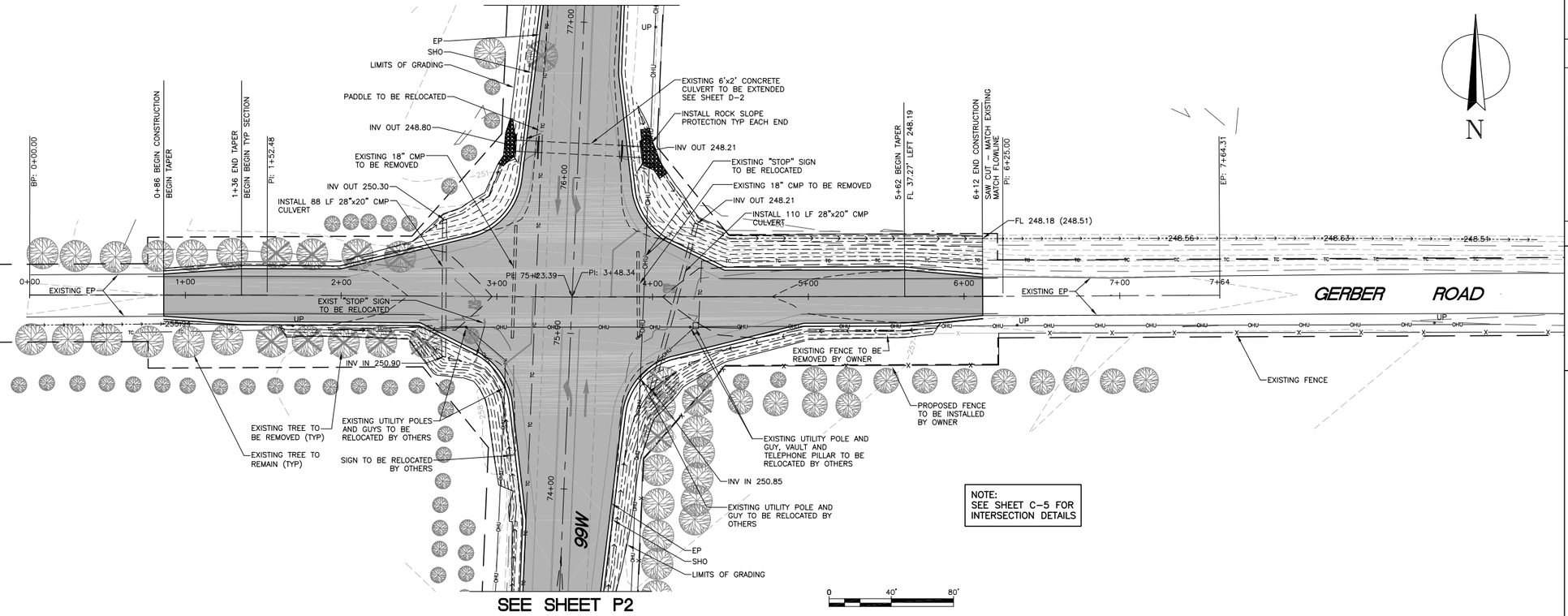
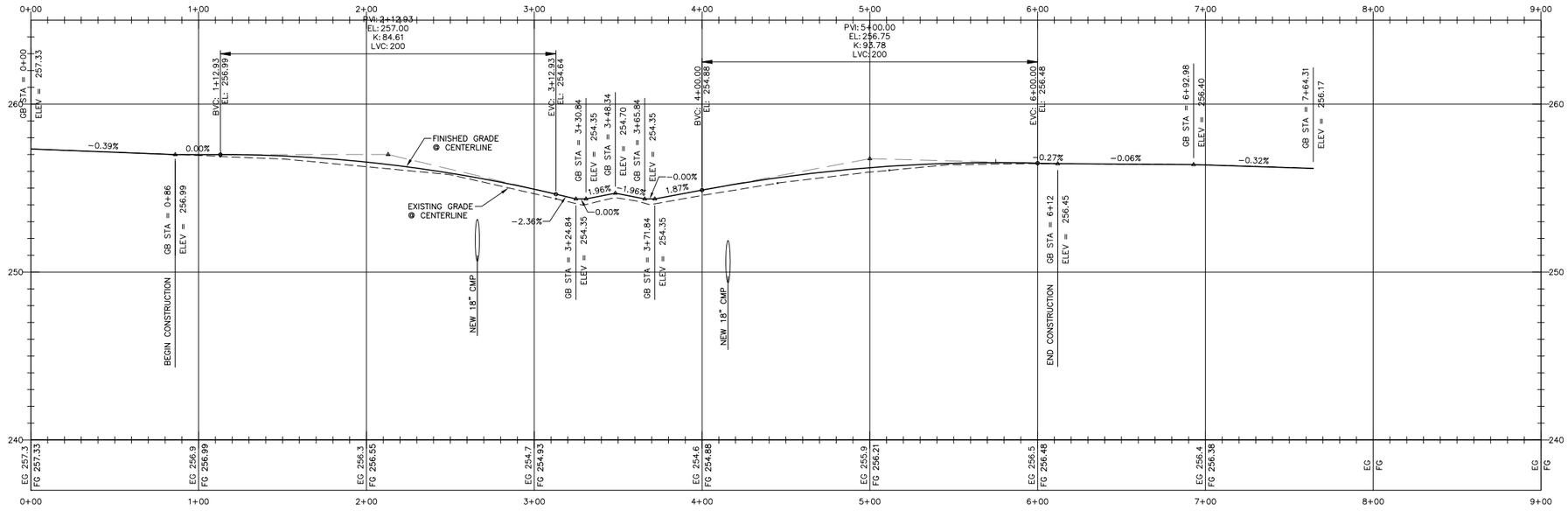
SEE SHEET P2



NOTE:
SEE SHEET C-5 FOR INTERSECTION DETAILS

SEE SHEET P2



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BY:	
REVISION:	
No.	

PROFESSIONAL ENGINEER REGISTERED CIVIL ENGINEER KYLE S. ROSSER C 78389 STATE OF CALIFORNIA

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Gerber, Ca 96035
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COUNTY OF TEHAMA

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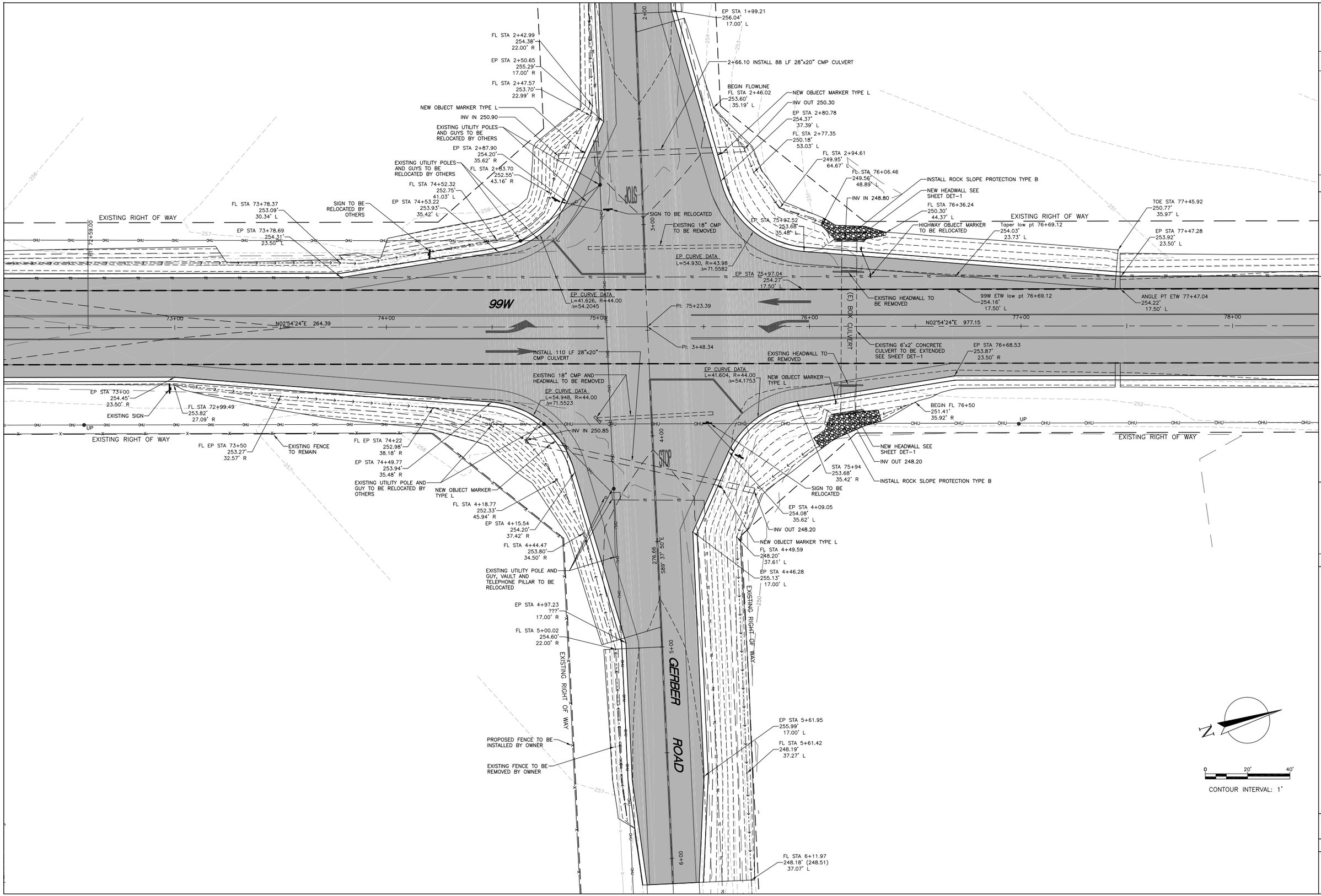
	VERT: 1" = 4'
DRAWN BY: SRA/TAC	DATE: 2/2/2016
CHECKED BY:	DATE:

SAN BENITO/ GERBER/ 99W INTERSECTION IMPROVEMENT GERBER RD. PLAN & PROFILE

PROJECT NO.: 237491

SHEET NO.: C-4

PAGE NO.: 7/17



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PROFESSIONAL ENGINEER — REGISTERED CIVIL ENGINEER — N. ROSSER — C 78389 — STATE OF CALIFORNIA

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SAN BENITO/ GERBER/ 99W INTERSECTION IMPROVEMENT 99W- GERBER RD INTERSECTION

PROJECT NO.: 237491

SHEET NO.	PAGE NO.
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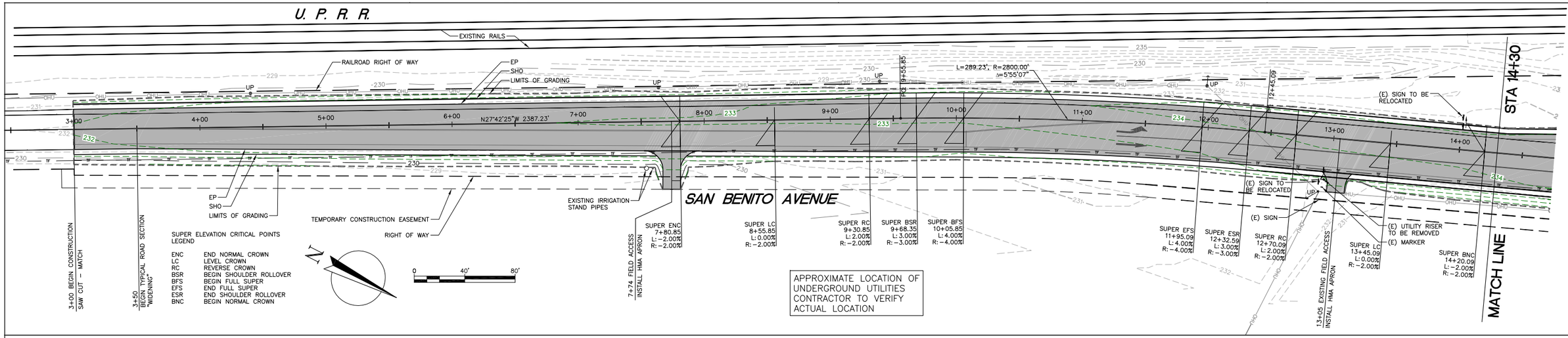

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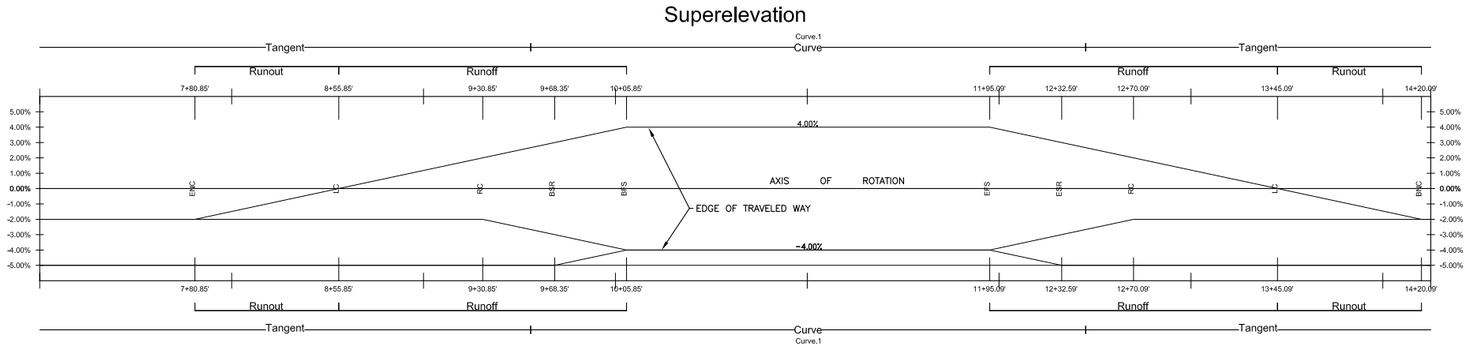

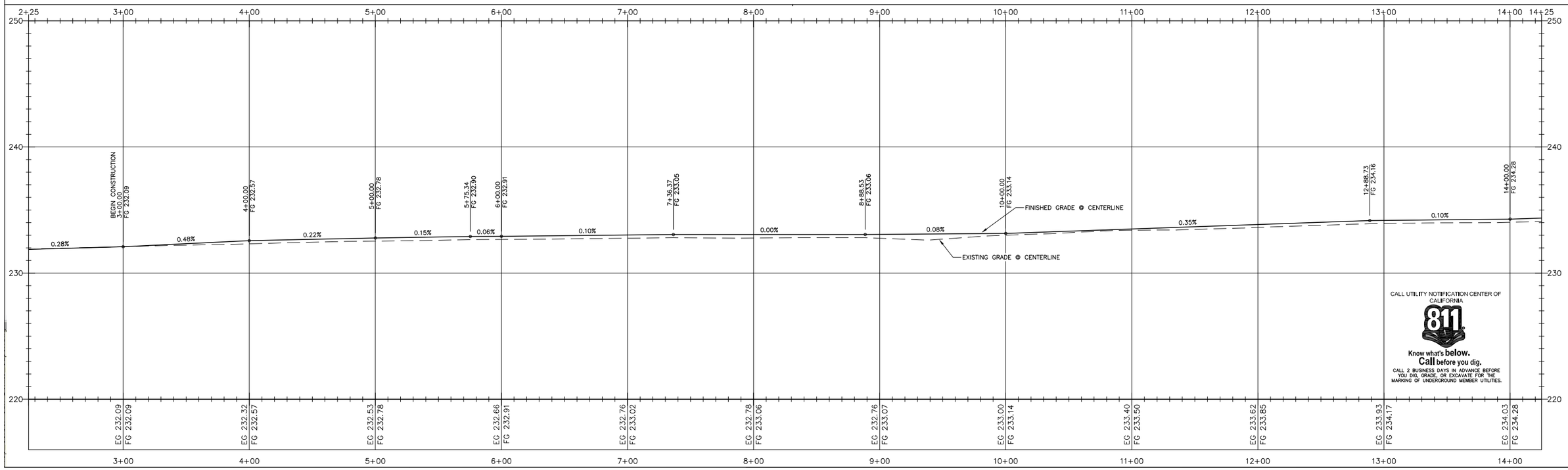

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COUNTY OF TEHAMA

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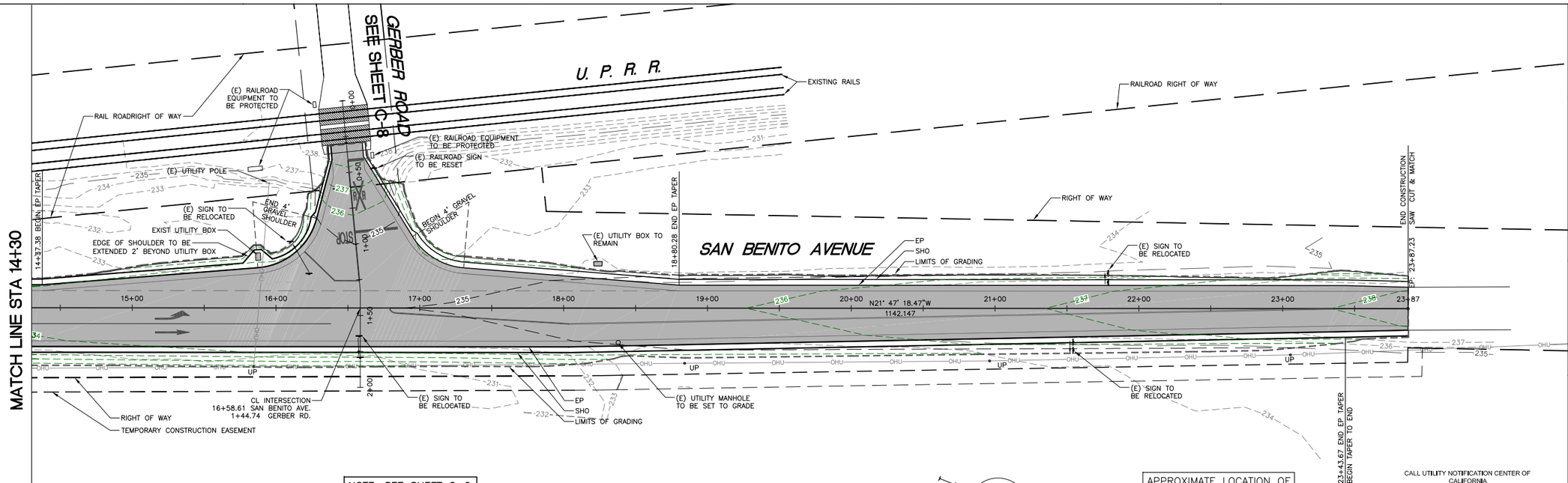
SAN BENITO/ GERBER/ 99W INTERSECTION IMPROVEMENT SAN BENITO PLAN AND PROFILE

PROJECT NO.: 237491

SHEET NO. C-6



NOTE: SEE SHEET C-9 FOR INTERSECTION DETAILS

SUPER ELEVATION CRITICAL POINTS LEGEND

ENC	END NORMAL CROWN
LC	LEVEL CROWN
RC	REVERSE CROWN
BSR	BEGIN SHOULDER ROLLOVER
BFS	BEGIN FULL SUPER
EFS	END FULL SUPER
ESR	END SHOULDER ROLLOVER
BNC	BEGIN NORMAL CROWN

APPROXIMATE LOCATION OF UNDERGROUND UTILITIES CONTRACTOR TO VERIFY ACTUAL LOCATION

0 40' 80'

SCALE: 1" = 40'

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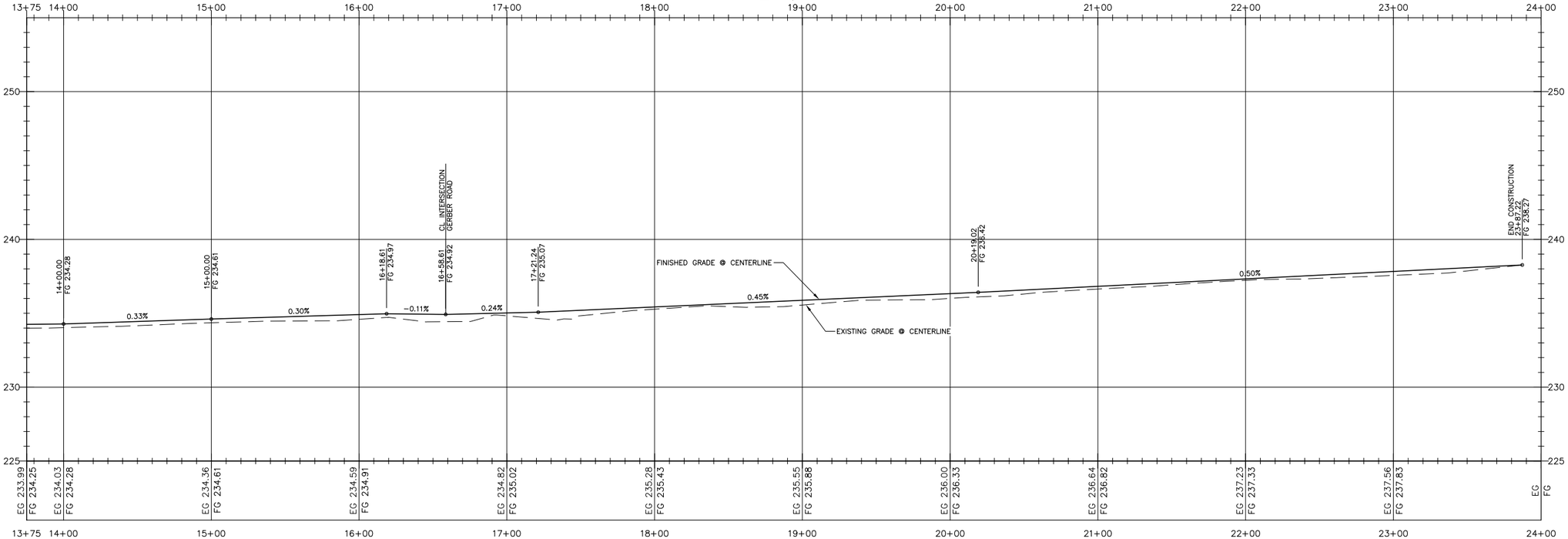


DATE:
BY:
REVISION:
No.

PROFESSIONAL ENGINEER
KELLEY N. ROSSER
C 78389
STATE OF CALIFORNIA
CIVIL

TEHAMA COUNTY
PUBLIC WORKS
9380 San Benito Ave.
Gerber, Ca 96035
(530) 385-1462

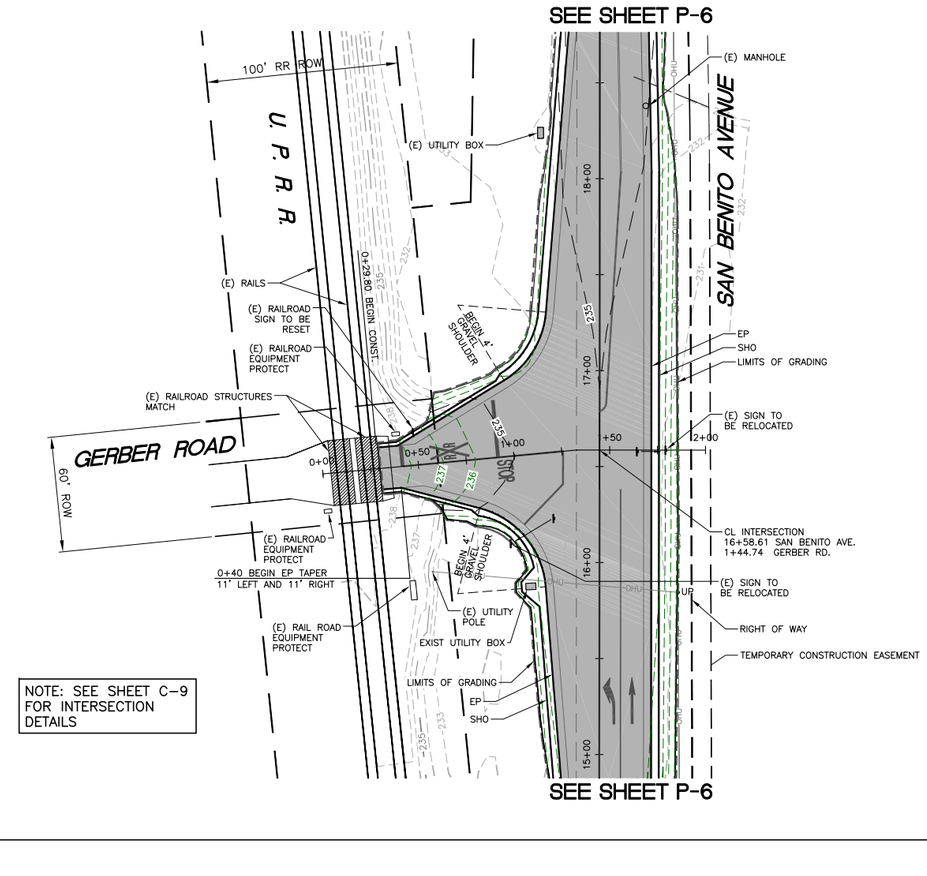
SCALE	
HORIZ:	1" = 40'
VERT:	1" = 4'
DRAWN BY:	SRA/TAC
DATE:	2/2/2016
CHECKED BY:	
DATE:	

SAN BENITO/ GERBER/ 99W INTERSECTION IMPROVEMENT SAN BENITO PLAN AND PROFILE

PROJECT NO.: 237491

SHEET NO. C-7

PAGE NO. 10/17



NOTE: SEE SHEET C-9 FOR INTERSECTION DETAILS

APPROXIMATE LOCATION OF UNDERGROUND UTILITIES CONTRACTOR TO VERIFY ACTUAL LOCATION

0 40' 80'

SCALE: 1" = 40'

CALL UTILITY NOTIFICATION CENTER OF CALIFORNIA

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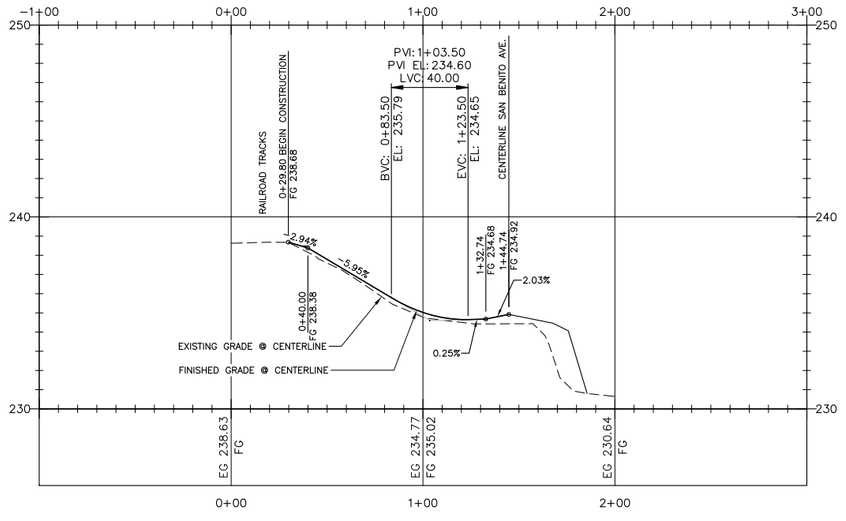


TEHAMA COUNTY
PUBLIC WORKS

9380 San Benito Ave.
Gerber, Ca 96035
(530) 385-1462

No.	REVISION:	BY:	DATE:

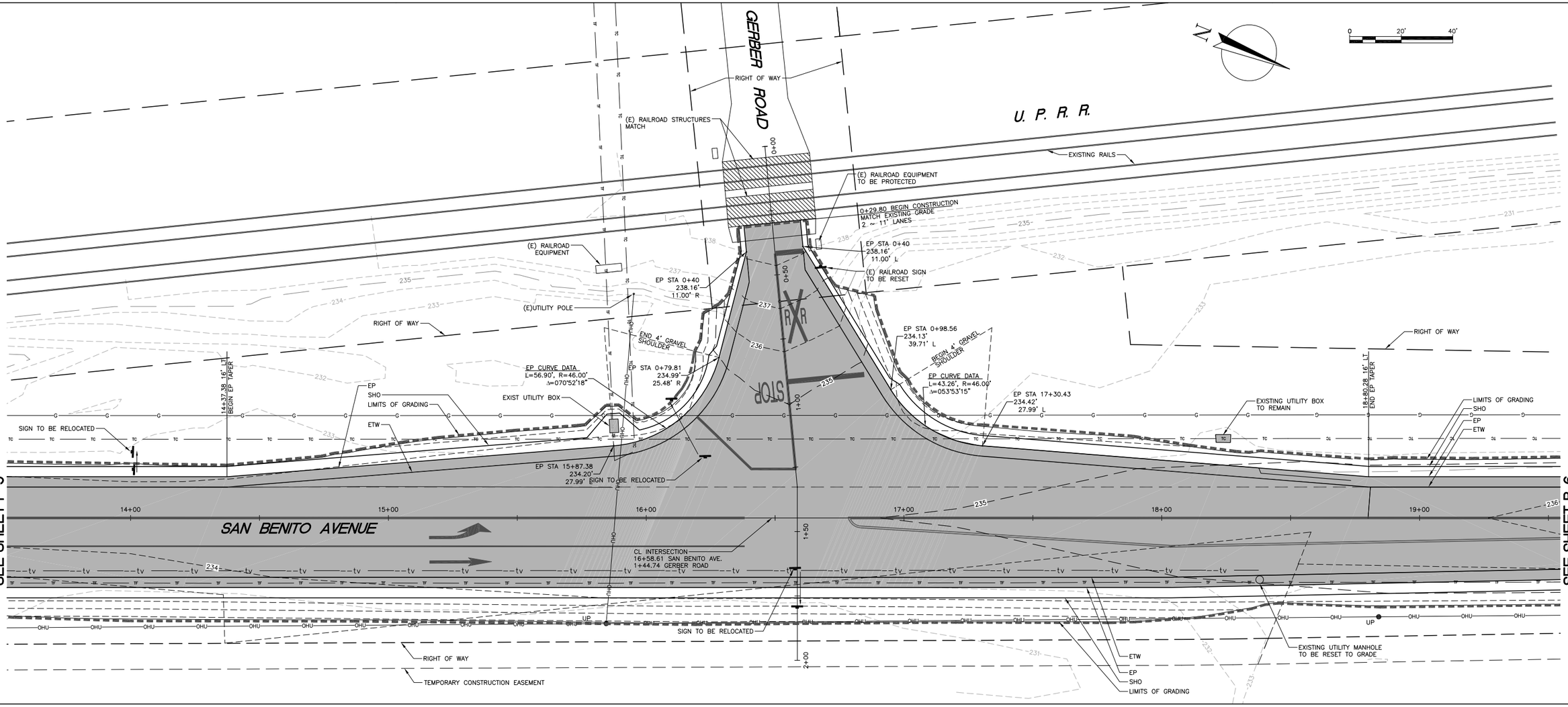
REGISTERED PROFESSIONAL ENGINEER
KELLY N. ROSSER
C 78389
CIVIL
STATE OF CALIFORNIA

SCALE	HORIZ: 1" = 40'
	VERT: 1" = 4'
DRAWN BY: SRA/TAC	
DATE: 2/2/2016	
CHECKED BY:	
DATE:	

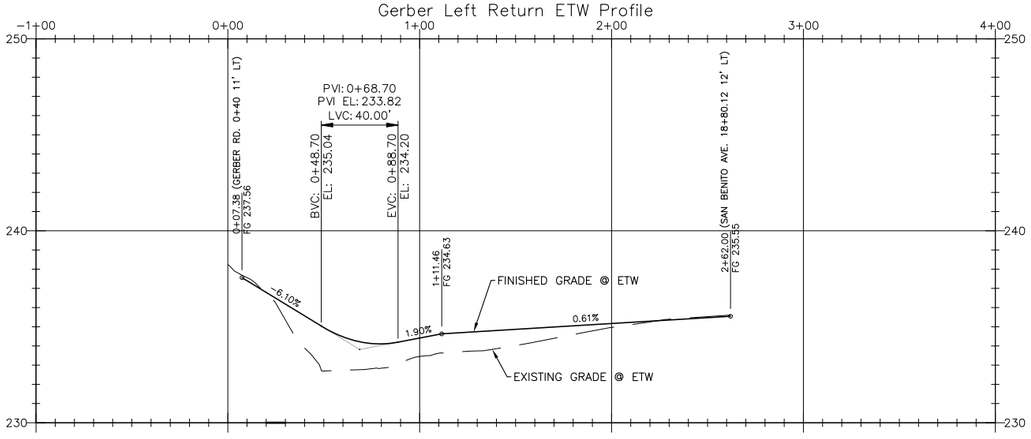
SAN BENITO/ GERBER/ 99W
INTERSECTION IMPROVEMENT
GERBER RD PLAN AND PROFILE

PROJECT NO.: 237491

SHEET NO.	PAGE NO.
C-8	11/17

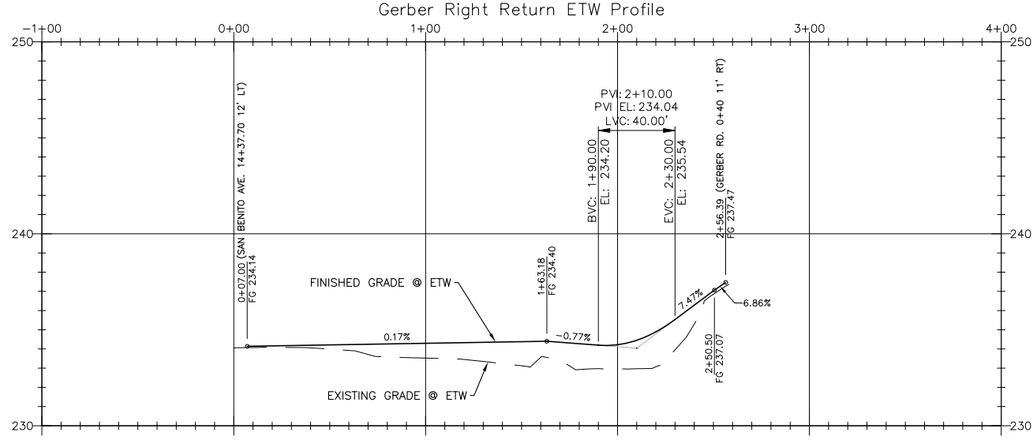


Gerber Left Return ETW Profile



SCALE:
HORIZ: 1" = 40'
VERT: 1" = 5'

Gerber Right Return ETW Profile



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No.	REVISION:	BY:	DATE:

PROFESSIONAL ENGINEER * REGISTERED * KELLY N. S. ROSSER * C 78389 * CIVIL * STATE OF CALIFORNIA

COUNTY OF TEHAMA
TEHAMA COUNTY PUBLIC WORKS
9380 San Benito Ave.
Gerber, Ca 96035
(530) 385-1462

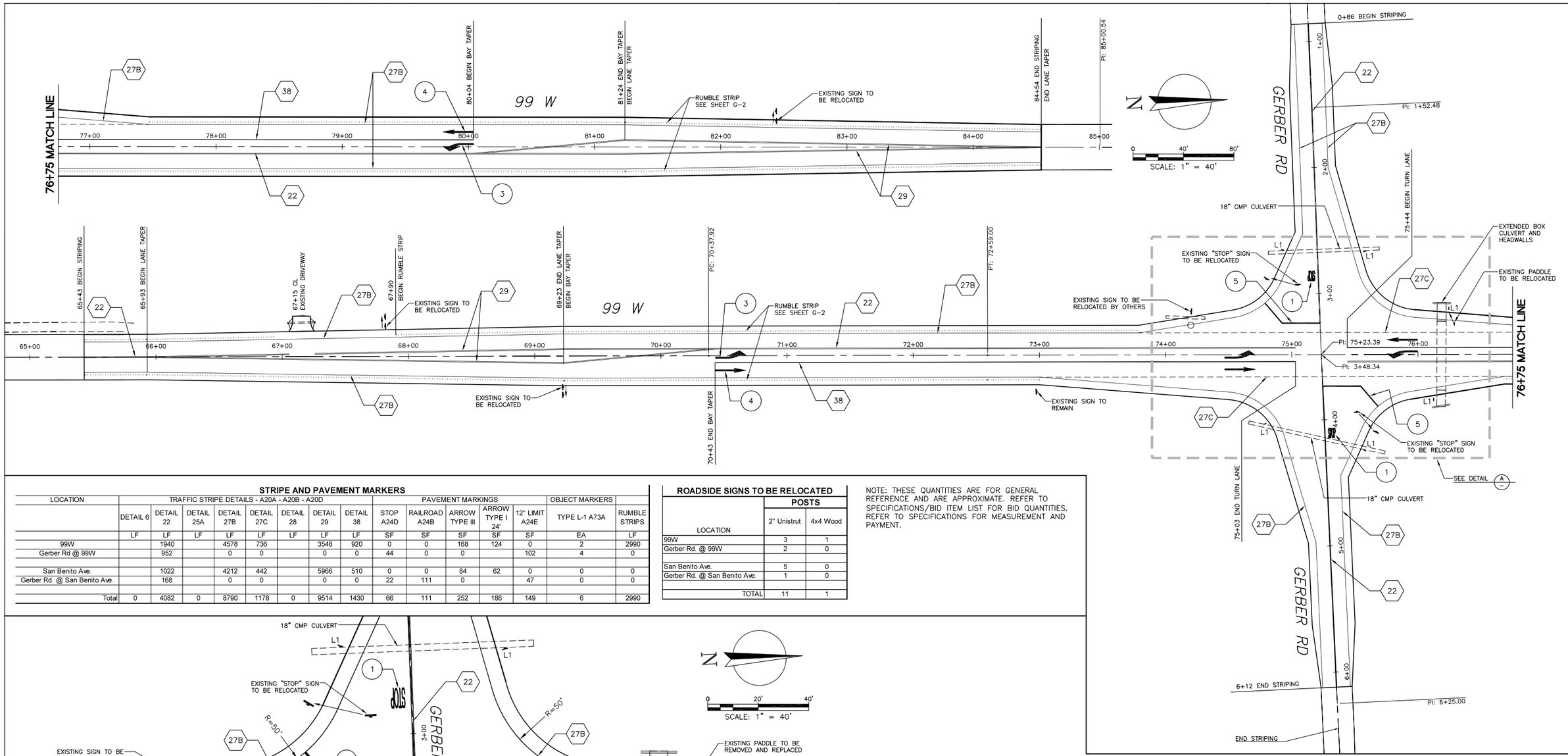
SCALE	HORIZ: NOTED	DRAWN BY: SRA/TAC	
	VERT: NOTED	DATE: 2/2/2016	
		CHECKED BY:	
		DATE:	

SAN BENITO/ GERBER/ 99W INTERSECTION IMPROVEMENT

SAN BENITO AVE. INTERSECTION PLAN

PROJECT NO.: 237491

SHEET NO.	PAGE NO.
C-9	12/17



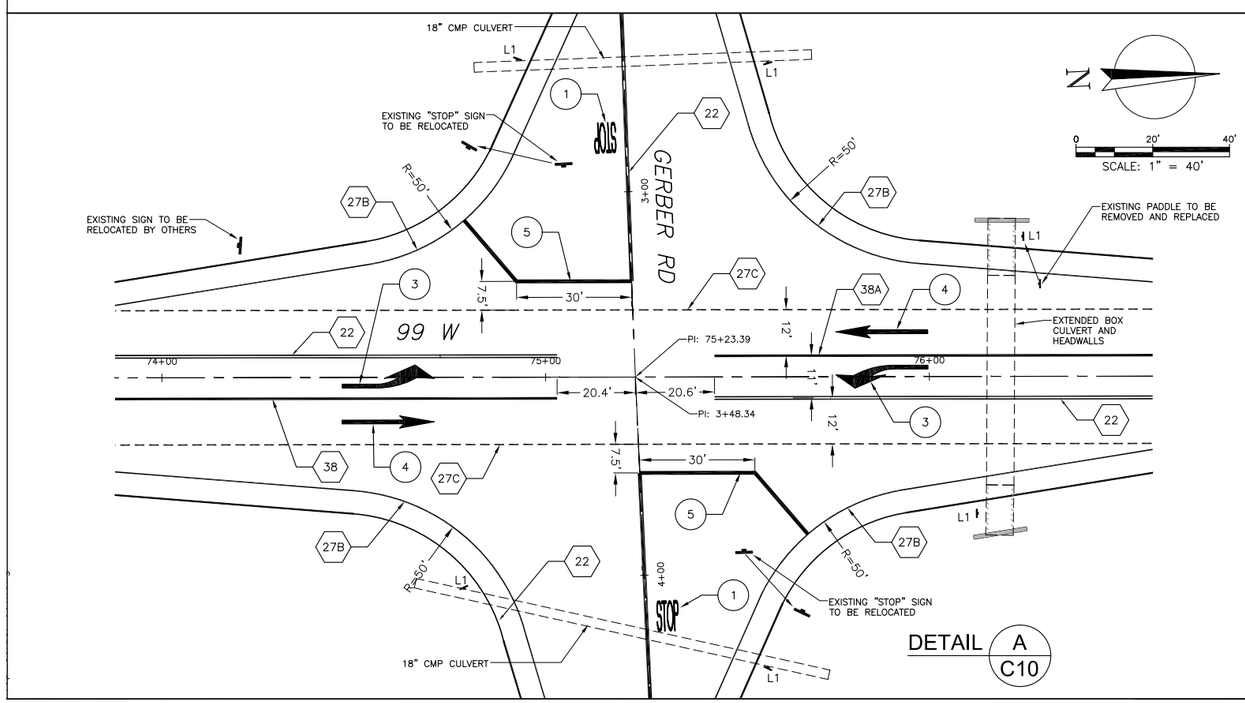
STRIPE AND PAVEMENT MARKERS

LOCATION	TRAFFIC STRIPE DETAILS - A20A - A20B - A20D								PAVEMENT MARKINGS					OBJECT MARKERS	
	DETAIL 6	DETAIL 22	DETAIL 25A	DETAIL 27B	DETAIL 27C	DETAIL 28	DETAIL 29	DETAIL 38	STOP A24D	RAILROAD A24B	ARROW TYPE III	ARROW TYPE I 24'	12" LIMIT A24E	TYPE L-1 A73A	RUMBLE STRIPS
	LF	LF	LF	LF	LF	LF	LF	LF	SF	SF	SF	SF	SF	EA	LF
99W		1940		4578	736		3548	920	0	0	168	124	0	2	2990
Gerber Rd @ 99W		952		0	0		0	0	44	0	0		102	4	0
San Benito Ave.		1022		4212	442		5966	510	0	0	84	62	0	0	0
Gerber Rd. @ San Benito Ave.		168		0	0		0	0	22	111	0		47	0	0
Total	0	4082	0	8790	1178	0	9514	1430	66	111	252	186	149	6	2990

ROADSIDE SIGNS TO BE RELOCATED

LOCATION	POSTS	
	2" Unistrut	4x4 Wood
99W	3	1
Gerber Rd. @ 99W	2	0
San Benito Ave.	5	0
Gerber Rd. @ San Benito Ave.	1	0
TOTAL	11	1

NOTE: THESE QUANTITIES ARE FOR GENERAL REFERENCE AND ARE APPROXIMATE. REFER TO SPECIFICATIONS/BID ITEM LIST FOR BID QUANTITIES. REFER TO SPECIFICATIONS FOR MEASUREMENT AND PAYMENT.



DETAIL A C10

LEGEND

PER STATE OF CALIFORNIA STANDARD PLANS 2010

- 6 — 4" DASHED YELLOW LINE W/ MARKERS
- 22 — 4" SOLID DOUBLE YELLOW LINES W/ MARKERS
- 25A — 4" SOLID YELLOW LINE W/ MARKERS
- 27B — 4" SOLID WHITE LINE
- 27C — 4" DASHED WHITE LINE
- 28 — 4" SOLID DOUBLE YELLOW LINES
- 29 — 4" SOLID DOUBLE YELLOW LINES W/ SINGLE MARKERS
- 38 — 8" SOLID WHITE LINE

- 1 — "STOP" PAVEMENT MARKING
- 2 — RAILROAD CROSSING SYMBOL
- 3 — ARROW TYPE III (L)
- 4 — ARROW TYPE I 24'
- 5 — 12" WHITE LIMIT LINE

L1- OBJECT MARKER – TYPE AS NOTED

NOTES

1. STRIPING DETAIL NUMBERS SHALL COMPLY WITH CALTRANS STANDARD PLANS 2010. REFER TO STANDARD PLANS A20A → A20D.
2. PAVEMENT MARKINGS AND SYMBOLS SHALL COMPLY WITH CALTRANS STANDARD PLANS 2010. REFER TO MOST CURRENT VERSION OF STANDARD PLANS FOR DETAILS.
3. ALL SIGNING AND STRIPING SHALL COMPLY WITH THE 2014 CA–MUTCD, OR NEWER VERSION.
4. ALL OBJECT MARKERS SHALL BE POSITIONED 2' TO 3' OFF THE EDGE OF PAVED SHOULDER OR AS NOTED ON PLAN.

CALL UTILITY NOTIFICATION CENTER OF CALIFORNIA
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No.	REVISION:	BY:	DATE:

PROFESSIONAL ENGINEER — REGISTERED CIVIL ENGINEER — STEVEN S. ROSSER — C 78389 — STATE OF CALIFORNIA

TEHAMA COUNTY
PUBLIC WORKS
9380 San Benito Ave.
Gerber, Ca 96035
(530) 385-1462

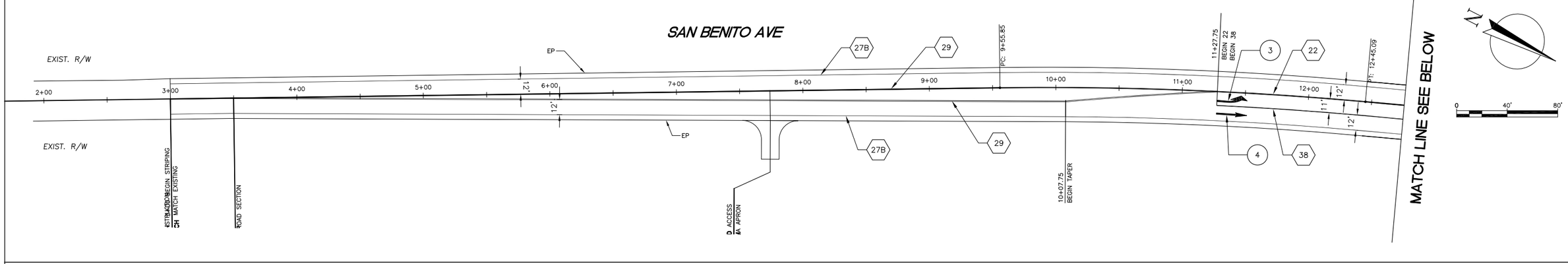
COUNTY OF TEHAMA

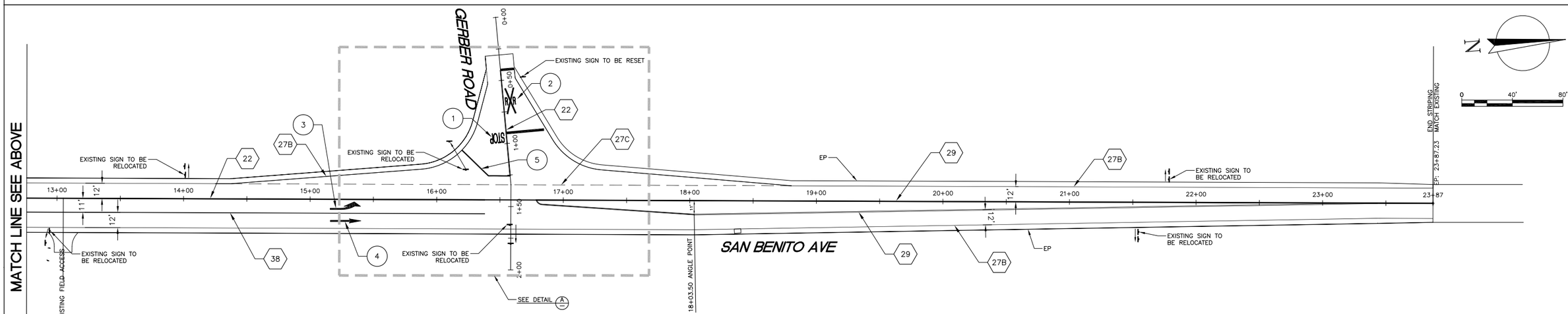
SCALE	HORIZ: AS NOTED	VERT: N/A	DRAWN BY: SRA/TAC	DATE: 2/1/2016	CHECKED BY:	DATE:

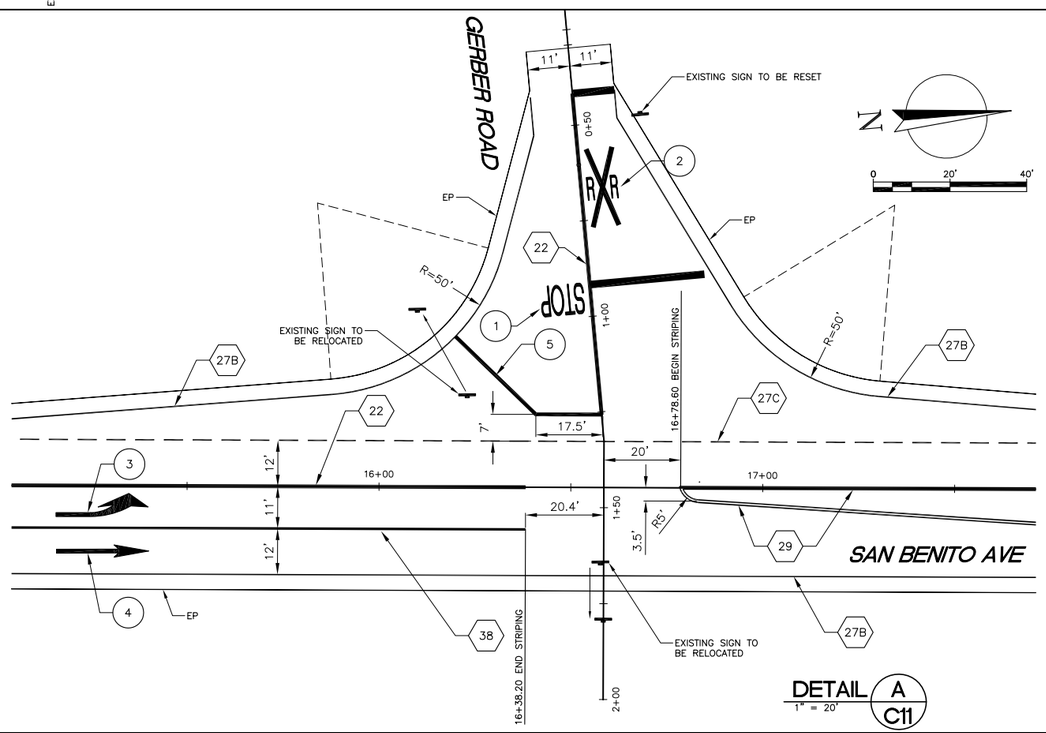
SAN BENITO/ GERBER/ 99W
INTERSECTION IMPROVEMENT
STRIPING AND SIGNS 99W

PROJECT NO.: 237491

SHEET NO.	PAGE NO.
C-10	13/17







DETAIL A
1" = 20'
C11

LEGEND

PER STATE OF CALIFORNIA STANDARD PLANS 2010

- 6 — 4" DASHED YELLOW LINE W/ MARKERS
- 22 — 4" SOLID DOUBLE YELLOW LINES W/ MARKERS
- 25A — 4" SOLID YELLOW LINE W/ MARKERS
- 27B — 4" SOLID WHITE LINE
- 27C — 4" DASHED WHITE LINE
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- 1 — "STOP" PAVEMENT MARKING
- 2 — RAILROAD CROSSING SYMBOL
- 3 — ARROW TYPE III (L)
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- 5 — 12" WHITE STOP LIMIT LINE

NOTES

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No.	REVISION:	BY:	DATE:

REGISTERED PROFESSIONAL ENGINEER
KELLY S. ROSSER
C 78389
CIVIL
STATE OF CALIFORNIA

TEHAMA COUNTY
PUBLIC WORKS
9380 San Benito Ave.
Gerber, Ca 96035
(530) 385-1462

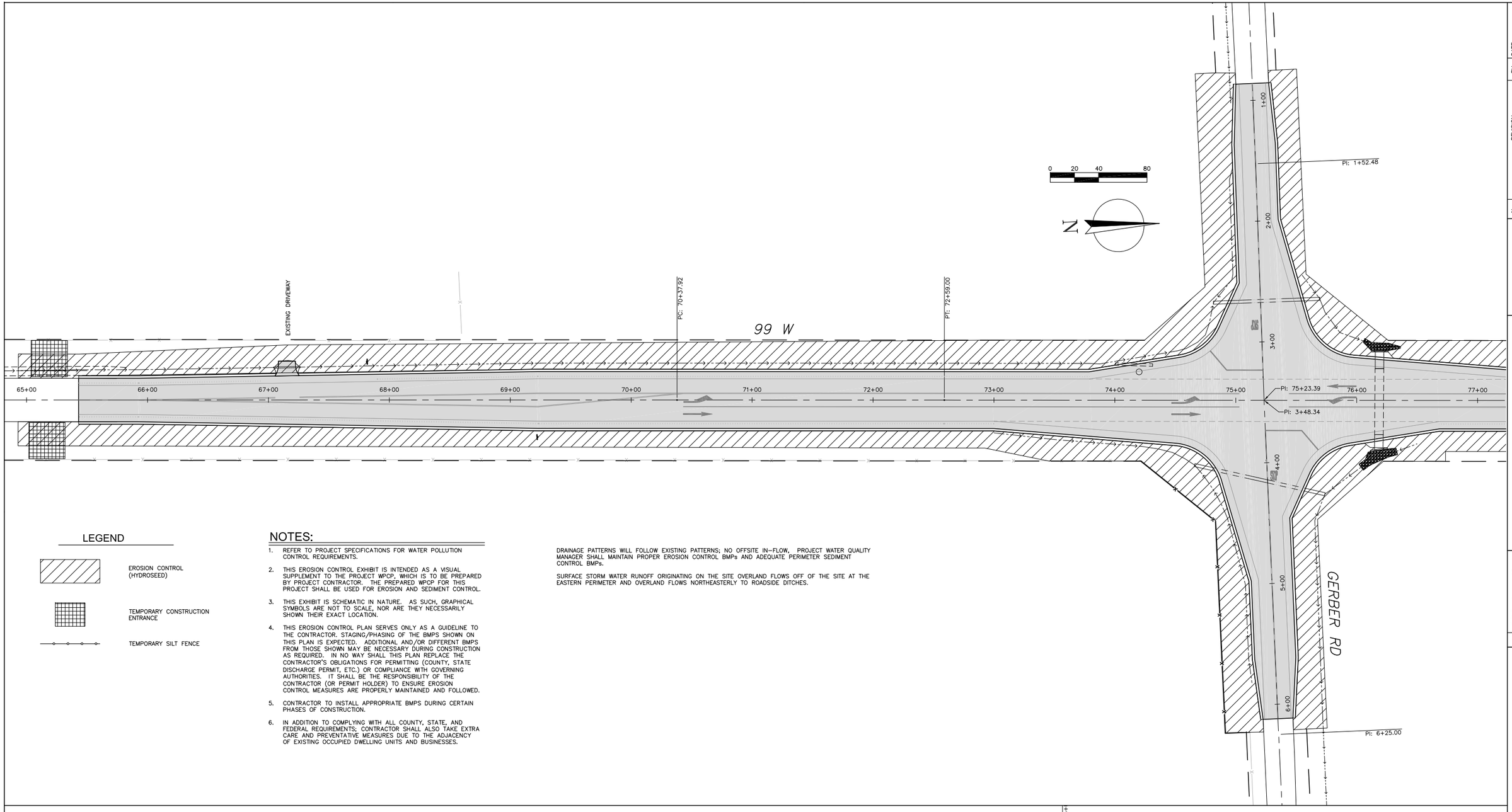
COUNTY OF TEHAMA

SCALE	HORIZ: NOTED	VERT: N/A	DRAWN BY: SRA/TAC	DATE: 2/1/2016	CHECKED BY:	DATE:

SAN BENITO/ GERBER/ 99W
INTERSECTION IMPROVEMENT
STRIPING & SIGNS SAN BENITO AVE.

PROJECT NO.: 237491

SHEET NO.	PAGE NO.
C-11	14/17



LEGEND

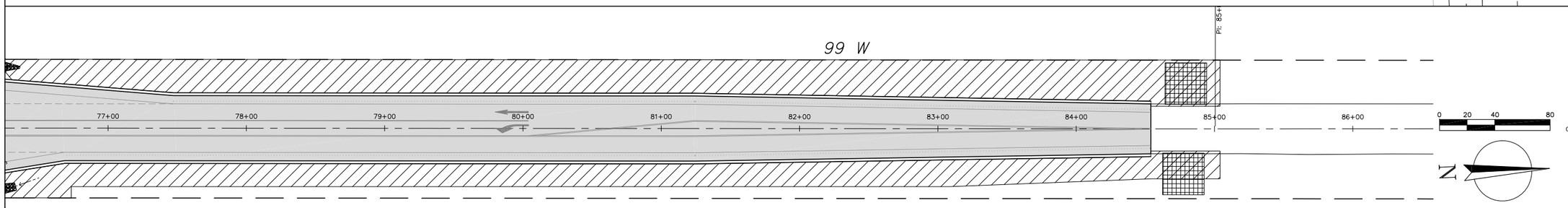
- EROSION CONTROL (HYDROSEED)
- TEMPORARY CONSTRUCTION ENTRANCE
- TEMPORARY SILT FENCE

NOTES:

1. REFER TO PROJECT SPECIFICATIONS FOR WATER POLLUTION CONTROL REQUIREMENTS.
2. THIS EROSION CONTROL EXHIBIT IS INTENDED AS A VISUAL SUPPLEMENT TO THE PROJECT WPCP, WHICH IS TO BE PREPARED BY PROJECT CONTRACTOR. THE PREPARED WPCP FOR THIS PROJECT SHALL BE USED FOR EROSION AND SEDIMENT CONTROL.
3. THIS EXHIBIT IS SCHEMATIC IN NATURE. AS SUCH, GRAPHICAL SYMBOLS ARE NOT TO SCALE, NOR ARE THEY NECESSARILY SHOWN THEIR EXACT LOCATION.
4. THIS EROSION CONTROL PLAN SERVES ONLY AS A GUIDELINE TO THE CONTRACTOR. STAGING/PHASING OF THE BMPS SHOWN ON THIS PLAN IS EXPECTED. ADDITIONAL AND/OR DIFFERENT BMPS FROM THOSE SHOWN MAY BE NECESSARY DURING CONSTRUCTION AS REQUIRED. IN NO WAY SHALL THIS PLAN REPLACE THE CONTRACTOR'S OBLIGATIONS FOR PERMITTING (COUNTY, STATE DISCHARGE PERMIT, ETC.) OR COMPLIANCE WITH GOVERNING AUTHORITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR (OR PERMIT HOLDER) TO ENSURE EROSION CONTROL MEASURES ARE PROPERLY MAINTAINED AND FOLLOWED.
5. CONTRACTOR TO INSTALL APPROPRIATE BMPS DURING CERTAIN PHASES OF CONSTRUCTION.
6. IN ADDITION TO COMPLYING WITH ALL COUNTY, STATE, AND FEDERAL REQUIREMENTS; CONTRACTOR SHALL ALSO TAKE EXTRA CARE AND PREVENTATIVE MEASURES DUE TO THE ADJACENCY OF EXISTING OCCUPIED DWELLING UNITS AND BUSINESSES.

DRAINAGE PATTERNS WILL FOLLOW EXISTING PATTERNS; NO OFFSITE IN-FLOW, PROJECT WATER QUALITY MANAGER SHALL MAINTAIN PROPER EROSION CONTROL BMPs AND ADEQUATE PERIMETER SEDIMENT CONTROL BMPs.

SURFACE STORM WATER RUNOFF ORIGINATING ON THE SITE OVERLAND FLOWS OFF OF THE SITE AT THE EASTERN PERIMETER AND OVERLAND FLOWS NORTHEASTERLY TO ROADSIDE DITCHES.



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REGISTERED PROFESSIONAL ENGINEER
STEVEN S. ROSSER
C 78389
CIVIL
STATE OF CALIFORNIA

TEHAMA COUNTY
PUBLIC WORKS
9380 San Benito Ave.
Gerber, Ca 96035
(530) 385-1462

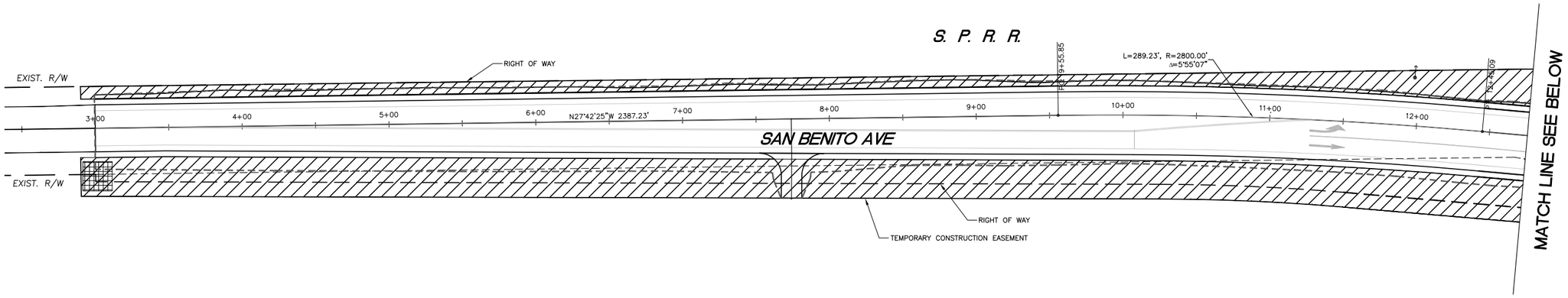
COUNTY OF TEHAMA

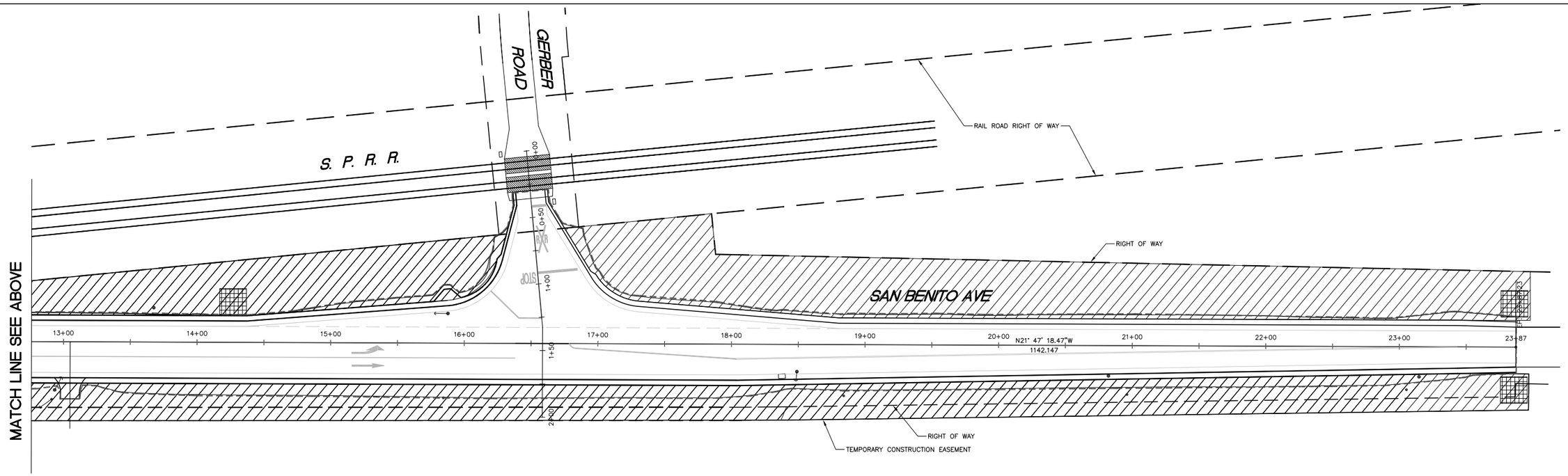
SCALE	HORIZ: 1" = 40'	DRAWN BY: SRA/TAC	CHECKED BY:
	VERT: N/A	DATE: 2/1/2016	DATE:

SAN BENITO/ GERBER/ 99W
INTERSECTION IMPROVEMENT
EROSION CONTROL 99W

PROJECT NO.: 237491

SHEET NO.	PAGE NO.
EC-1	15/17





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LEGEND

EROSION CONTROL (HYDROSEED)

TEMPORARY CONSTRUCTION ENTRANCE

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No.	REVISION:	BY:	DATE:

REGISTERED PROFESSIONAL ENGINEER KELLY N. ROSSER C 78389 CIVIL STATE OF CALIFORNIA

TEHAMA COUNTY PUBLIC WORKS

9380 San Benito Ave.
Gerber, Ca 96035
(530) 385-1462

SCALE			
HORIZ: 1" = 40'	VERT: N/A	DRAWN BY: SRA/TAC	DATE: 2/1/2016
		CHECKED BY:	DATE:

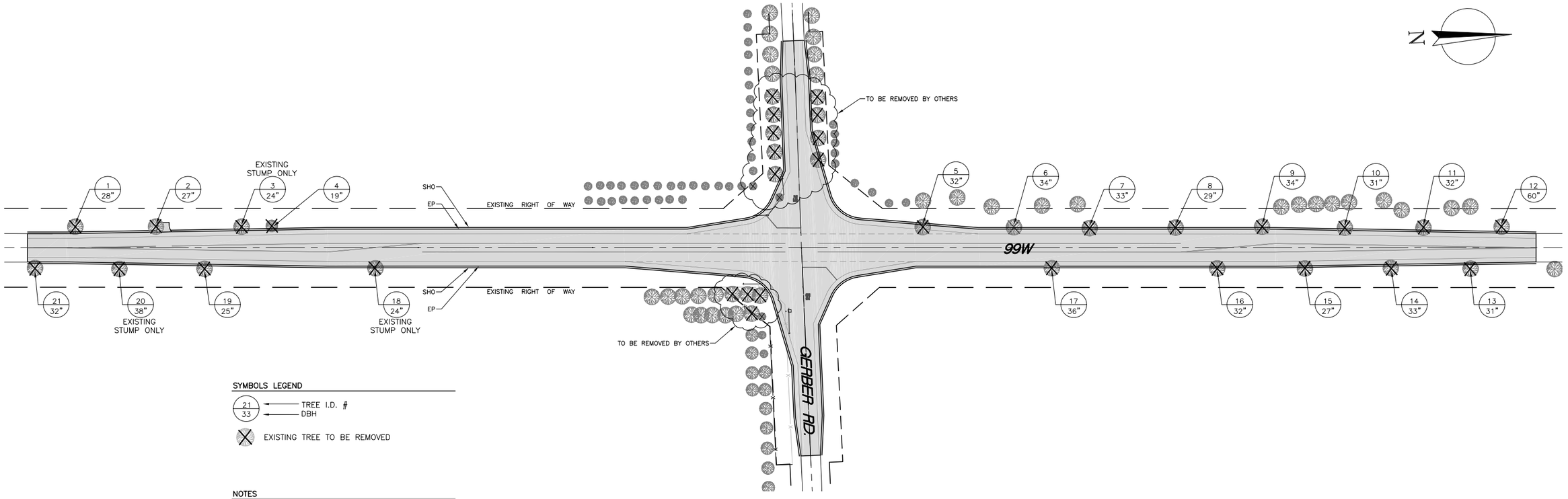
SAN BENITO/ GERBER/ 99W INTERSECTION IMPROVEMENT

ERROSION CONTROL SAN BENITO AVE

PROJECT NO.: 237491

SHEET NO. EC-2

PAGE NO. 16/17



SYMBOLS LEGEND

21 ← TREE I.D. #
33 ← DBH

EXISTING TREE TO BE REMOVED

NOTES

TREE STUMPS CAN REMAIN AND SHALL BE NO TALLER THAN 3' TALL
SEE SPECIFICATIONS FOR BIRD PROTECTION PROVISIONS

TREE I.D. LIST

I.D. #	SPECIES	DBH
1	SYCAMORE	28"
2	SYCAMORE	27"
3	SYCAMORE	24" (STUMP ONLY)
4	OAK	19"
5	SYCAMORE	32"
6	SYCAMORE	34"
7	SYCAMORE	33"
8	SYCAMORE	29"
9	SYCAMORE	34"
10	SYCAMORE	31"
11	SYCAMORE	32"
12	BLACK WALNUT	60"
13	NOT IDENTIFIED	31"
14	NOT IDENTIFIED	33"
15	NOT IDENTIFIED	27"
16	NOT IDENTIFIED	32"
17	NOT IDENTIFIED	36"
18	SYCAMORE	24" (STUMP ONLY)
19	NOT IDENTIFIED	25"
20	SYCAMORE	38" (STUMP ONLY)
21	SYCAMORE	32"

No.	REVISION:	BY:	DATE:

REGISTERED PROFESSIONAL ENGINEER KEVIN S. ROSSER C 78389 CIVIL STATE OF CALIFORNIA

TEHAMA COUNTY PUBLIC WORKS
9380 San Benito Ave.
Gerber, Ca 96035
(530) 385-1462

COUNTY OF TEHAMA

SCALE
HORIZ: N.T.S
VERT: N.T.S
DRAWN BY: SA/TC/NC
DATE: 2/2/2016
CHECKED BY:
DATE:

SAN BENITO/ GERBER/ 99W
INTERSECTION IMPROVEMENT
TREE REMOVAL PLAN

PROJECT NO.: 237491

SHEET NO. TR-1
PAGE NO. 17/17