

# IMPROVEMENT PLANS FOR :

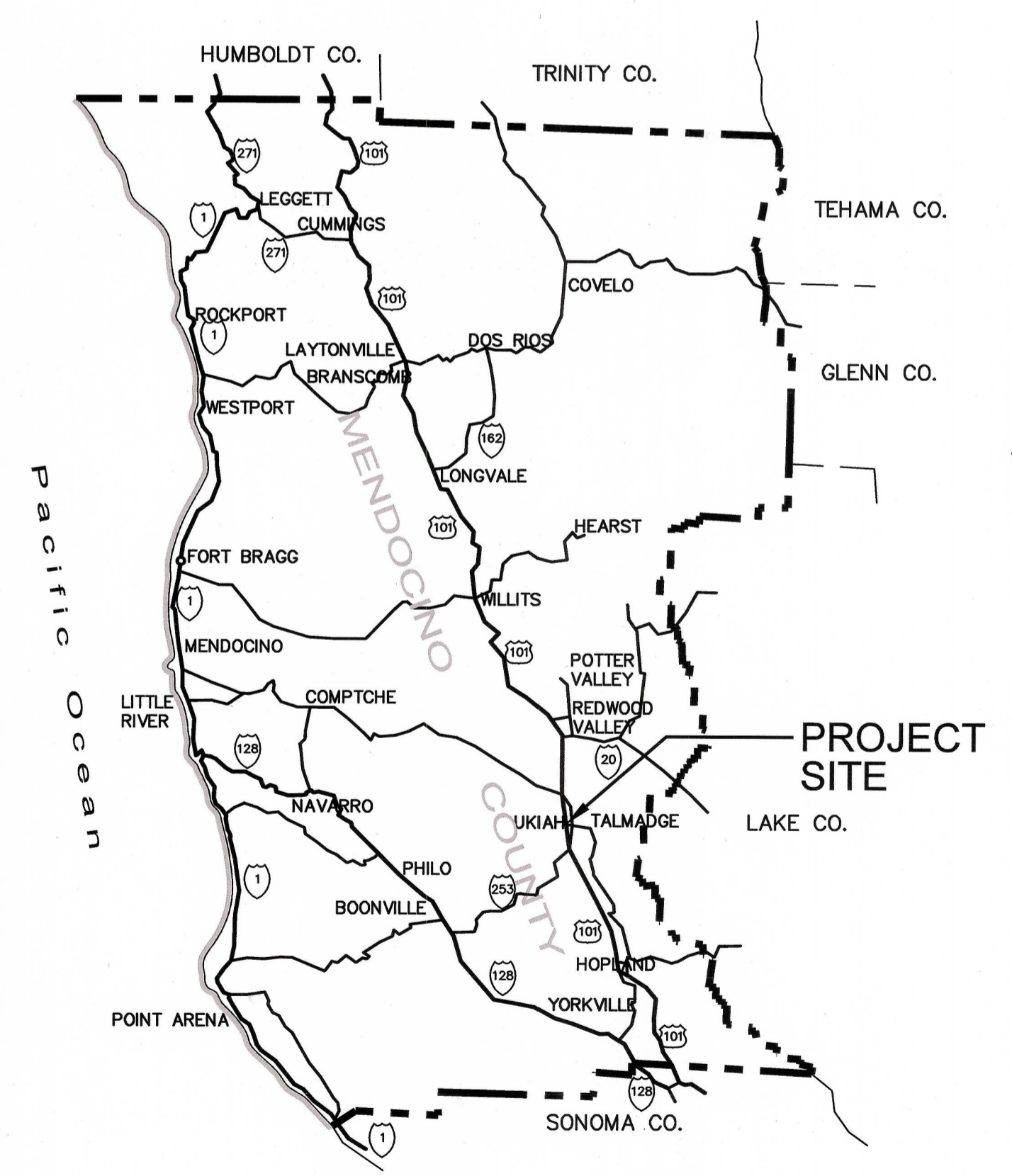
# CLARA AVENUE RECONSTRUCTION PROJECT

## SPECIFICATION NO. 20-08

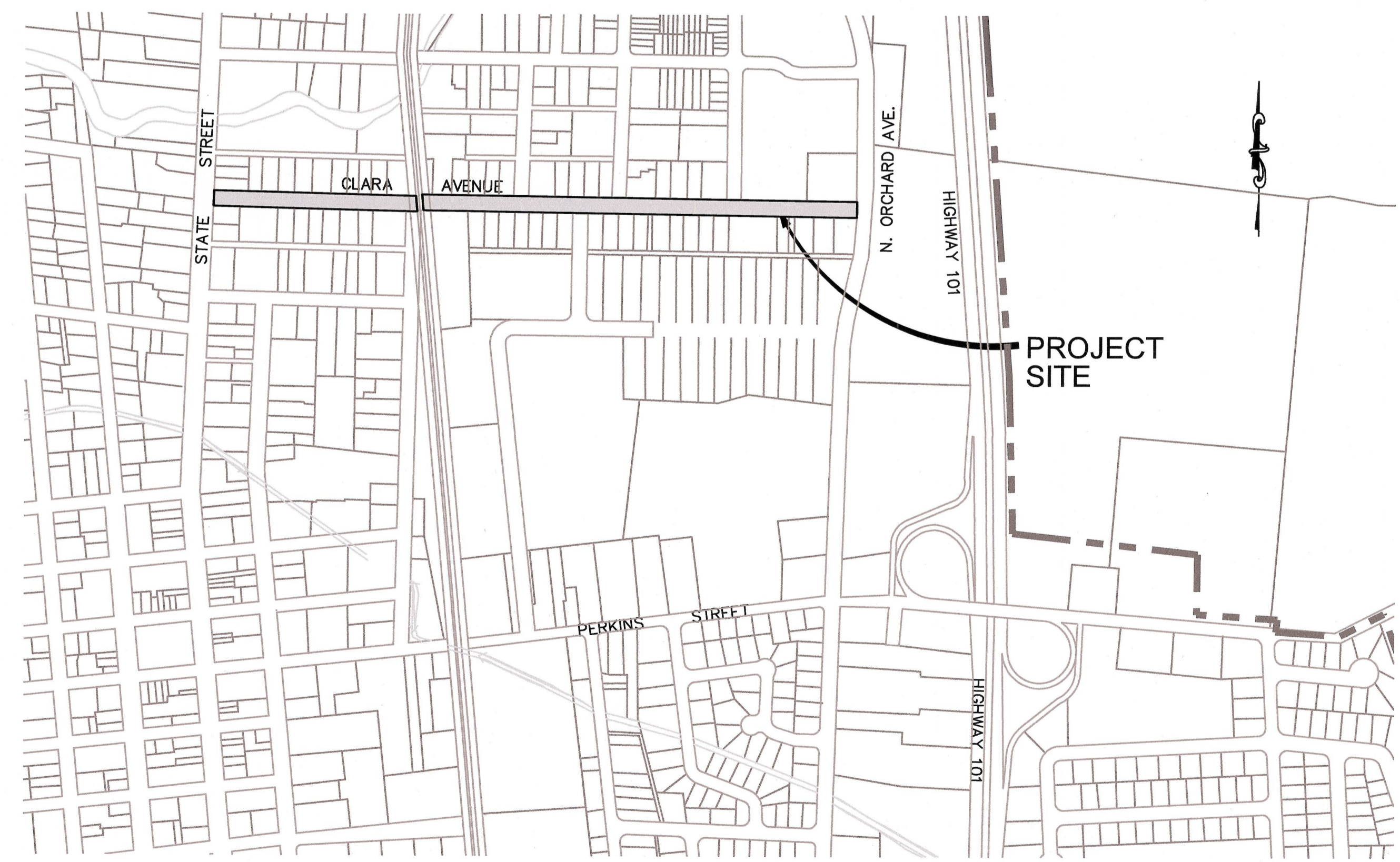
FOR THE  
**CITY OF UKIAH**  
 MENDOCINO COUNTY, CALIFORNIA

FOR USE IN CONJUNCTION WITH :  
 CALTRANS STANDARD SPECIFICATIONS DATED 2018  
 CALTRANS STANDARD PLANS DATED 2018

ORIGINAL PLOT DATE: 08/14/20  
 ORIGINAL SCALE IS IN INCHES  
 FOR REDUCED SIZE PLANS: THE ORIGINAL SCALE IS IN INCHES  
 3  
 2  
 1  
 Xrefs: ukiah-base.dwg; 294352-clara\_tp-ph2.dwg; 294352-clara\_tp-sp-ph1.dwg; 294352-clara\_rr-ramp-ph2.dwg; 294352-clara\_rr-ramp-ph1.dwg; 294352-clara\_rr-ramp-ph0.dwg; 294352-clara\_rr-ramp-ph0.dwg; 294352-clara\_rr-ramp-ph0.dwg; 294352-clara\_rr-ramp-ph0.dwg; 294352-clara\_rr-ramp-ph0.dwg  
 Images: Heidi signature-blue.jpg  
 Path: F:\Civil\_3D\Projects\294352\CLARA\_PHASE 2\DWG\294352\_CLARA\_COV-PH2.dwg; Layout Name: SHT-1 Plot Date: Apr 23, 2020 at 02:47 pm



VICINITY MAP



LOCATION MAP

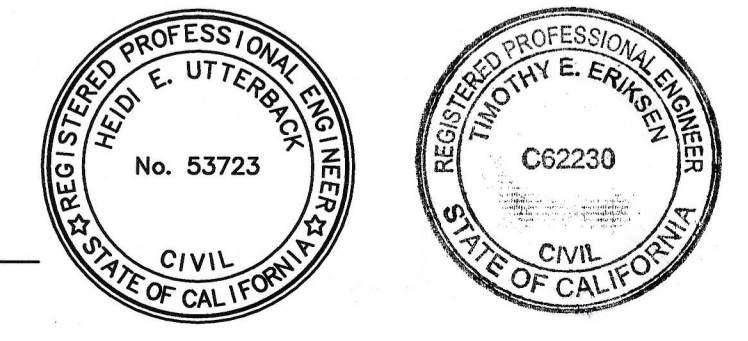
NOT TO SCALE

### INDEX OF SHEETS

| NO. | SHEET TITLE   |
|-----|---|
| 1   | TITLE SHEET   |
| 2   | ABBREVIATIONS, LEGEND, GENERAL NOTES & SURVEY CONTROL     |
| 3   | PLAN & PROFILE - STA. 10+00 TO STA. 13+00                 |
| 4   | PLAN & PROFILE - STA. 13+00 TO STA. 16+75                 |
| 5   | PLAN & PROFILE - STA. 16+75 TO STA. 20+50                 |
| 6   | PLAN & PROFILE - STA. 20+50 TO STA. 24+25                 |
| 7   | PLAN & PROFILE - STA. 24+25 TO STA. 28+25                 |
| 8   | PLAN & PROFILE - STA. 28+25 TO STA. 32+25                 |
| 9   | PLAN & PROFILE - STA. 32+25 TO STA. 36+50                 |
| 10  | STRIPING & RECONSTRUCTION PLAN - STA. 10+00 TO STA. 19+75 |
| 11  | STRIPING & RECONSTRUCTION PLAN - STA. 19+75 TO STA. 28+75 |
| 12  | STRIPING & RECONSTRUCTION PLAN - STA. 28+75 TO STA. 36+00 |
| 13  | N. STATE ST. AND MYRON PL. - BULBOUT DETAILS              |
| 14  | MASON STREET - BULBOUT DETAILS                            |
| 15  | SIDNIE ST. - BULBOUT DETAILS                              |
| 16  | DETAILS   |
| 17  | DETAILS   |
| 18  | DETAILS   |
| 19  | CROSS SECTIONS - STA. 10+25 TO STA. 12+75                 |
| 20  | CROSS SECTIONS - STA. 12+94.27 TO STA. 15+00              |
| 21  | CROSS SECTIONS - STA. 15+17.03 TO STA. 17+16.36           |
| 22  | CROSS SECTIONS - STA. 17+25 TO STA. 18+25                 |
| 23  | CROSS SECTIONS - STA. 18+50 TO STA. 20+89.64              |
| 24  | CROSS SECTIONS - STA. 21+00 TO STA. 23+25                 |
| 25  | CROSS SECTIONS - STA. 23+50 TO STA. 25+83.48              |
| 26  | CROSS SECTIONS - STA. 26+00 TO STA. 28+25                 |
| 27  | CROSS SECTIONS - STA. 28+50 TO STA. 30+50                 |
| 28  | CROSS SECTIONS - STA. 30+75 TO STA. 32+96.65              |
| 29  | CROSS SECTIONS - STA. 33+00 TO STA. 34+25                 |
| 30  | CROSS SECTIONS - STA. 34+40.46 TO STA. 35+50              |
| 31  | CROSS SECTIONS - STA. 35+75 TO STA. 36+25                 |

**Coastland Civil Engineering, Inc.**  
 1400 Neotomas Avenue, Santa Rosa, CA 95405  
 707.571.8005 707.571.8037 Fax

*Heidi E. Utterback*  
 HEIDI E. UTTERBACK, RCE 53723  
 LICENSE EXPIRATION: 06/30/2020  
 DATE 4/23/2020



**CITY OF UKIAH**  
 APPROVED DATE 6/17/22  
  
 TIM ERIKSEN  
 DIRECTOR OF PUBLIC WORKS/CITY ENGINEER

|                            |
|----------------------------|
| PROJECT NUMBER<br>29-4352  |
| DRAWING DATE<br>APRIL 2020 |
| DRAWING NUMBER<br>1 OF 31  |

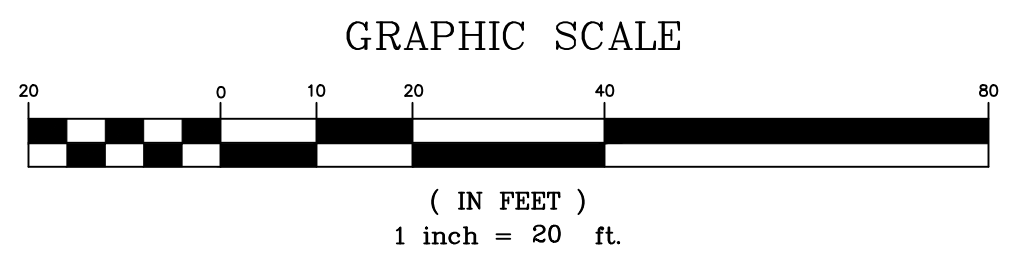
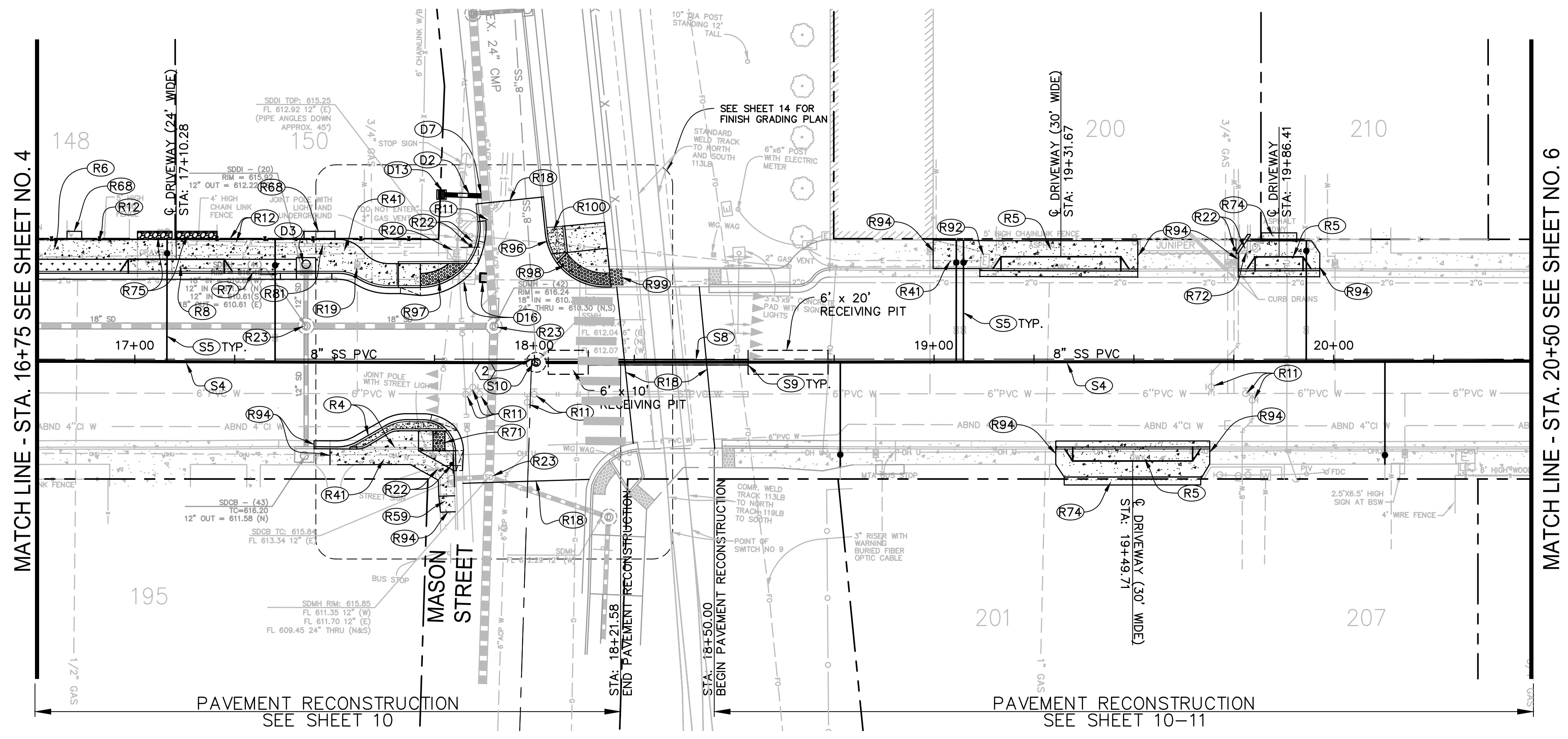
CLARA AVENUE RECONSTRUCTION PROJECT





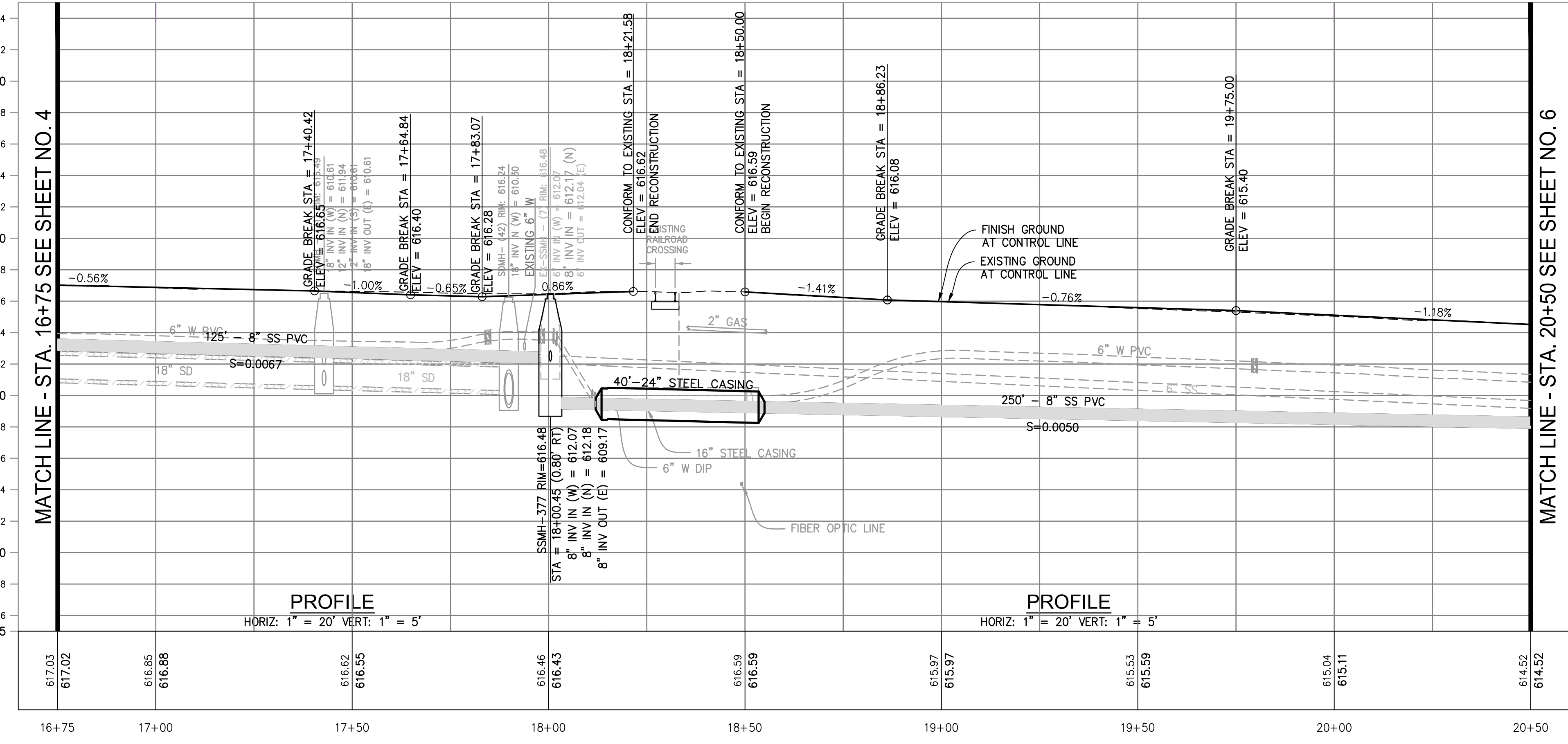


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 Layout Name: Sheet 5 Plot Date: Apr 23, 2020 at 02:48 pm  
 ORIGINAL PLOT DATE:



- CONSTRUCTION NOTES**
- (D2) INSTALL 12" STORM DRAIN PIPE PER CITY STD. 420.
  - (D3) REMOVE EXISTING DROP INLET AND INSTALL TYPE 4AC CURB INLET PER CITY STD. 403, 406 & 408.
  - (D7) INSTALL STORM DRAIN BLIND CONNECTION PER DETAIL (10/16)
  - (D13) INSTALL 18"x 18" DROP INLET, GRADE TO DRAIN.
  - (D16) REMOVE EXISTING DROP INLET, PLUG & ABANDON SD PIPE.
  - (R4) REMOVE EXISTING CURB & GUTTER, INSTALL NEW CURB AND GUTTER PER DETAIL (8/16)
  - (R5) REMOVE EXISTING CONCRETE DRIVEWAY, INSTALL DRIVEWAY PER DETAIL (5/17)
  - (R6) INSTALL SIDEWALK AND PLANTER PER PLAN AND DETAIL (6/16)
  - (R7) INSTALL CURB AND GUTTER PER DETAIL (8/16)
  - (R8) INSTALL DRIVEWAY PER DETAIL (5/17)
  - (R10) INSTALL TYPE "A" CURB RAMP PER CALTRANS STD PLAN AB8A.
  - (R11) ADJUST WATER VALVE BOX TO FINISH GRADE PER DETAIL (5/16)
  - (R12) REMOVE EXISTING FENCE AND INSTALL AT BACK OF NEW SIDEWALK.
  - (R18) SAWCUT AND CONFORM TO EXISTING ASPHALT CONCRETE.
  - (R19) ADJUST WATER METER BOX TO FINISH GRADE.
  - (R20) ADJUST ELECTRICAL VAULT TO FINISH GRADE.
  - (R22) RELOCATE OR RESET ROAD SIGN AS REQUIRED.
  - (R23) ADJUST STORM DRAIN MANHOLE TO FINISH GRADE PER DETAIL (5/16)
  - (R41) INSTALL PCC SIDEWALK PER DETAIL (7/16)
  - (R59) REMOVE EXISTING SIDEWALK & INSTALL 5' SIDEWALK TRANSITION.
  - (R68) REMOVE & REPLACE RESIDENTIAL SIDEWALK (2' MINIMUM LENGTH).
  - (R71) INSTALL CURB RAMP SIMILAR TO TYPE "G" PER CALTRANS STD PLAN AB8A AND DETAIL (1/14)
  - (R72) SAWCUT & REMOVE EXISTING PCC CURB. REMOVE EXISTING LANDSCAPING AS NECESSARY FOR DRIVEWAY & SIDEWALK INSTALLATION.
  - (R74) REMOVE EXISTING ASPHALT CONCRETE & INSTALL ASPHALT CONCRETE DRIVEWAY CONFORM (2' MINIMUM LENGTH) PER DETAIL (6/17)
  - (R75) INSTALL GRAVEL DRIVEWAY CONFORM (2' MINIMUM LENGTH) PER DETAIL (6/17)
  - (R81) REMOVE PAVERS & LANDSCAPE BORDER AND SALVAGE TO OWNER.
  - (R92) REPLACE EXISTING ELECTRICAL BOX & ADJUST TO FINISH GRADE.
  - (R94) SAWCUT AND CONFORM TO EXISTING CONCRETE PER DETAIL (4/17)
  - (R96) REMOVE & REPLACE EXISTING VERTICAL CURB.
  - (R97) INSTALL CASE CM CURB RAMP PER CALTRANS STD PLAN AB8B AND DETAIL (1/14)
  - (R98) REMOVE & REPLACE EXISTING CONCRETE PATH AND TRUNCATED DOMES- SEE DETAIL (1/14)
  - (R99) REMOVE & REPLACE AC SIDEWALK & TRUNCATED DOMES AS REQUIRED.
  - (R100) ADJUST OR RELOCATE LIGHT AS REQUIRED.
  - (S4) REMOVE EXISTING SANITARY SEWER MAIN AND INSTALL 8" PVC SANITARY SEWER MAIN PER CITY STANDARDS, SIZE AS SHOWN.
  - (S5) REMOVE OR ABANDON EXISTING SANITARY SEWER LATERAL FROM SEWER MAIN TO BACK OF SIDEWALK AND INSTALL 4" SANITARY SEWER LATERAL SIMILAR TO CITY STD 210. CLEANOUTS TO BE PLACED 18" BEHIND FACE OF CURB. CLEANOUTS IN A DRIVEWAY SHALL BE PLACED 18" BEHIND DRIVEWAY APRON.
  - (S8) BORE & JACK 24" STEEL CASING.
  - (S9) INSTALL DIRT STOP PER DETAIL (6/18)
  - (S10) REMOVE EXISTING MANHOLE AND INSTALL 60" SANITARY SEWER MANHOLE WITH INSIDE DROP. MANHOLE SHALL BE SIMILAR TO STD 201 AND INSIDE DROP PER DETAIL (7/18)

# CLARA AVENUE



| CONTROL LINE POINT DATA |          |         |                                     |
|-------------------------|----------|---------|-------------------------------------|
| POINT NO.               | NORTHING | EASTING | DESCRIPTION                         |
| (2)                     | 13278.70 | 5406.26 | INTERSECTION CLARA AVE. & MASON ST. |

PREPARED UNDER THE DIRECTION OF  
 HEIDI E. UTTERBACK  
 HEIDI E. UTTERBACK, RCE 53723 DATE 4/23/2020  
 DESIGNED BY WJK  
 DRAWN BY WJK  
 REVIEWED BY HEU

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CLARA AVENUE RECONSTRUCTION PROJECT  
 SPECIFICATION NO. 20-08  
 CITY OF UKIAH  
 CALIFORNIA

## PLAN & PROFILE

### STA. 16+75 TO STA. 20+50

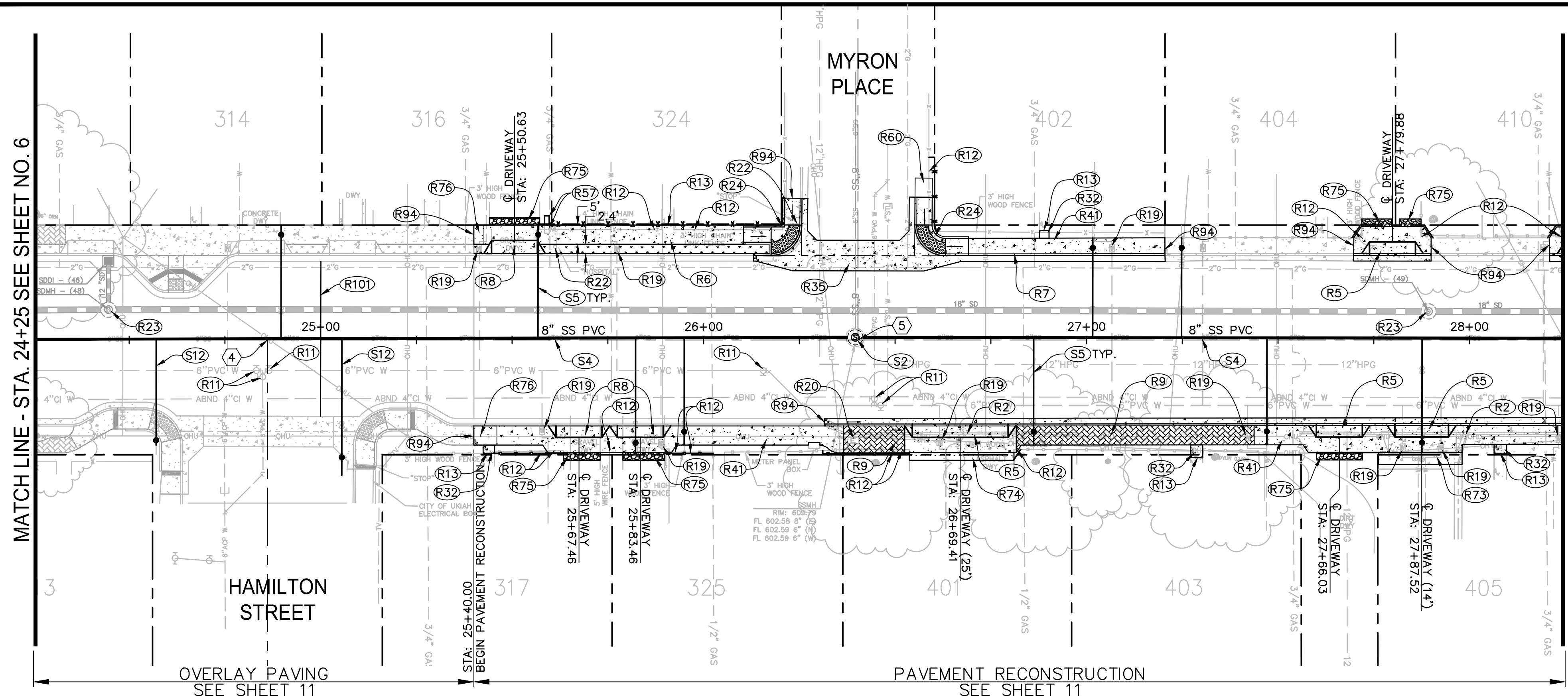
CLARA AVENUE RECONSTRUCTION PROJECT

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PROJECT NUMBER  
29-4352  
 DRAWING DATE  
APRIL 2020  
 SHEET NUMBER  
**5** OF **31**



Xref: 202144-CLARA-RR.sp.dwg, 294352-clara\_ip-P102.dwg, 294352-PF-3D-CLARA-P102.dwg, 6246\_POLES.dwg, COE-ENGINEERS STAMPS-PLAN.dwg, 294352-CLARA\_BDRY.dwg, 294352-clara\_IR-RIMP-P102.dwg, 294352-clara\_IP-sp-p1.dwg, 294352-clara\_IP-sp-p1.dwg, 2020 at 02:48 pm  
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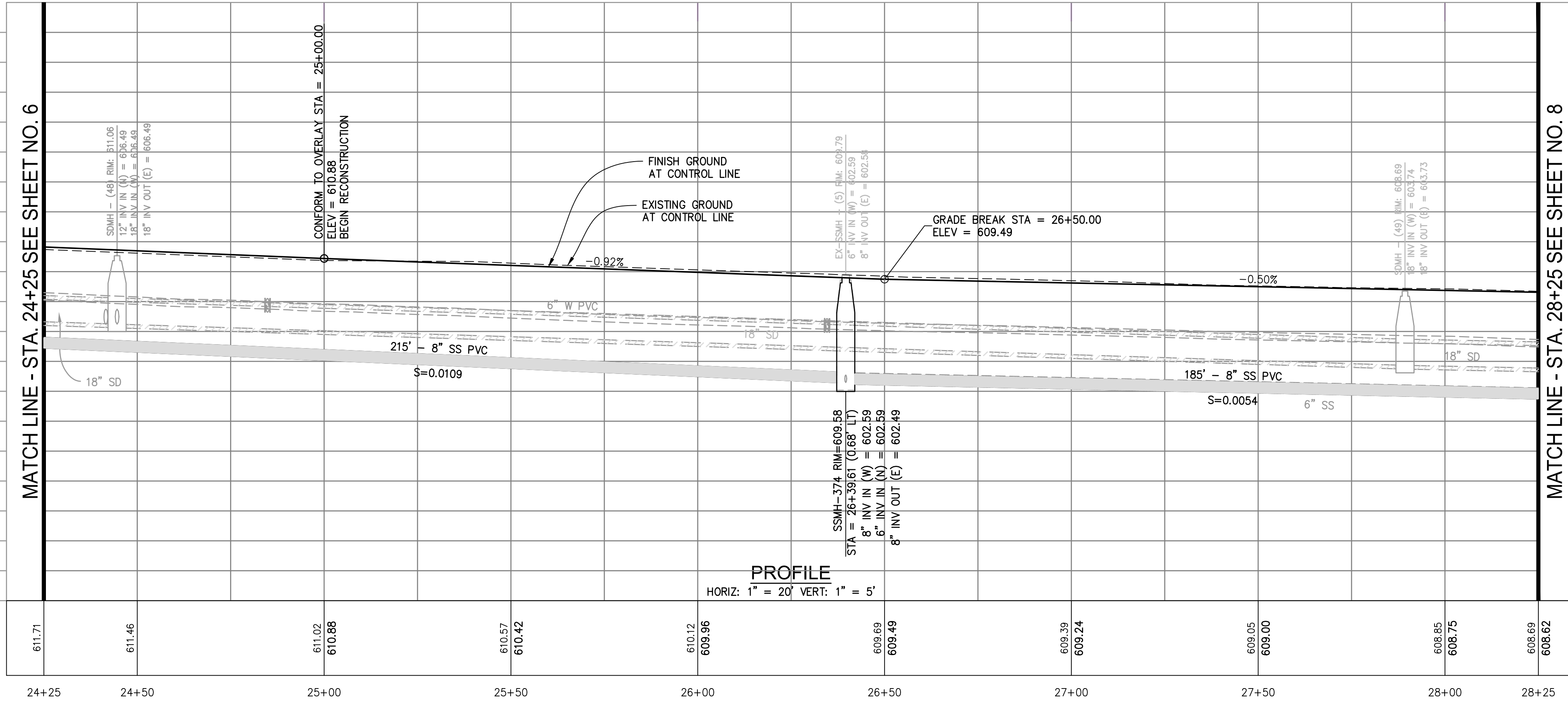


- CONSTRUCTION NOTES**
- (R2) REMOVE EXISTING CURB, GUTTER AND SIDEWALK OR DRIVEWAY.
  - (R5) REMOVE EXISTING CONCRETE DRIVEWAY, INSTALL DRIVEWAY PER DETAIL (5/17)
  - (R6) INSTALL SIDEWALK AND PLANTER PER PLAN AND DETAIL (6/16)
  - (R7) INSTALL CURB AND GUTTER PER DETAIL (8/16)
  - (R8) INSTALL DRIVEWAY PER DETAIL (5/17)
  - (R9) INSTALL CONCRETE PAVERS PER DETAIL (2/17)
  - (R11) ADJUST WATER VALVE BOX TO FINISH GRADE PER DETAIL (5/16)
  - (R12) REMOVE EXISTING FENCE AND INSTALL AT BACK OF NEW SIDEWALK.
  - (R13) SAWCUT AND CONFORM TO EXISTING CONCRETE.
  - (R18) SAWCUT AND CONFORM TO EXISTING ASPHALT CONCRETE.
  - (R19) ADJUST WATER METER BOX TO FINISH GRADE.
  - (R22) RELOCATE OR RESET ROAD SIGN AS REQUIRED.
  - (R23) ADJUST STORM DRAIN MANHOLE TO FINISH GRADE PER DETAIL (5/15)
  - (R24) REMOVE EXISTING CURB, GUTTER AND SIDEWALK. INSTALL TYPE "C" CURB RAMP PER CALTRANS STD. PLAN AB8A AND DETAIL (2/13)
  - (R32) EXTEND RESIDENTIAL SIDEWALK TO NEW SIDEWALK (2' MINIMUM LENGTH).
  - (R35) REMOVE AND REPLACE VALLEY GUTTER PER DETAIL (3/17) (1/2)
  - (R41) INSTALL PCC SIDEWALK PER DETAIL (7/16)
  - (R57) RELOCATE MAILBOX TO BACK OF SIDEWALK PER DETAIL (11/16)
  - (R60) INSTALL AC SIDEWALK TRANSITION, 5% MAX. SLOPE.
  - (R73) REMOVE EXISTING CONCRETE & INSTALL CONCRETE DRIVEWAY CONFORM (2' MINIMUM LENGTH) PER DETAIL (6/17)
  - (R74) REMOVE EXISTING ASPHALT CONCRETE & INSTALL ASPHALT CONCRETE DRIVEWAY CONFORM (2' MINIMUM LENGTH) PER DETAIL (6/17) (6/17)
  - (R75) INSTALL GRAVEL DRIVEWAY CONFORM (2' MINIMUM LENGTH) PER DETAIL (6/17)
  - (R76) REMOVE EXISTING ASPHALT CONCRETE & INSTALL PCC SIDEWALK PER DETAIL (7/16)
  - (R94) SAWCUT AND CONFORM TO EXISTING CONCRETE PER DETAIL (4/17)
  - (R101) CONFORM TO ASPHALT CONCRETE OVERLAY.
  - (S2) REMOVE EXISTING MANHOLE AND INSTALL 48" SANITARY SEWER MANHOLE PER CITY STD 201.
  - (S4) REMOVE EXISTING SANITARY SEWER MAIN AND INSTALL 8" PVC SANITARY SEWER MAIN PER CITY STANDARDS.
  - (S5) REMOVE OR ABANDON EXISTING SANITARY SEWER LATERAL FROM SEWER MAIN TO BACK OF SIDEWALK AND INSTALL 4" SANITARY SEWER LATERAL SIMILAR TO CITY STD 210. CLEANOUTS TO BE PLACED 18" BEHIND FACE OF CURB. CLEANOUTS IN A DRIVEWAY SHALL BE PLACED 18" BEHIND DRIVEWAY APRON.
  - (S12) CONTRACTOR TO VERIFY SEWER LATERAL LOCATION. CLEANOUT LOCATION MAY NEED TO BE ADJUSTED AND COORDINATED WITH ENGINEER.

CONTROL LINE POINT DATA

| POINT NO. | NORTHING | EASTING | DESCRIPTION                            |
|-----------|----------|---------|--|
| (4)       | 13328.43 | 6091.27 | INTERSECTION CLARA AVE. & HAMILTON ST. |
| (5)       | 13339.60 | 6245.08 | INTERSECTION CLARA AVE. & MYRON ST.    |

# CLARA AVENUE



PROFESSIONAL ENGINEER & LAND SURVEYOR  
HEIDI E. UTTTERBACK No. 53723 CALIFORNIA

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PREPARED UNDER THE DIRECTION OF  
 Heidi E. Uttterback 4/23/2020  
 HEIDI E. UTTTERBACK, RCE 53723 DATE  
 DESIGNED BY: HEIU  
 DRAWN BY: WJK  
 REVIEWED BY: HEIU

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**Coastland Civil Engineering, Inc.**  
 1400 Neotomas Avenue, Santa Rosa, CA 95405  
 707.571.8003

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CITY OF UKIAH CALIFORNIA  
 CLARA AVENUE RECONSTRUCTION PROJECT  
 SPECIFICATION NO. 20-08

**PLAN & PROFILE**  
**STA. 24+25 TO STA. 28+25**

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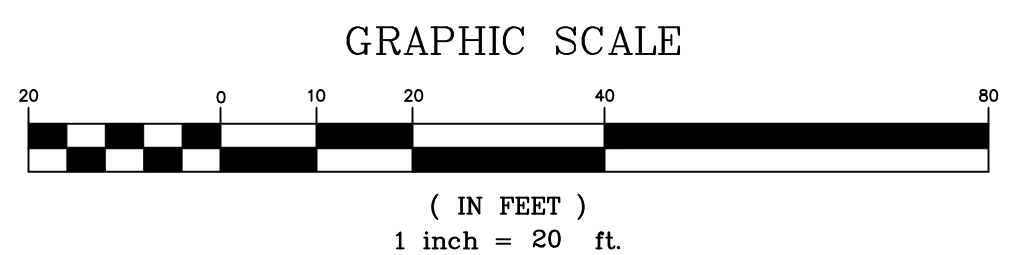
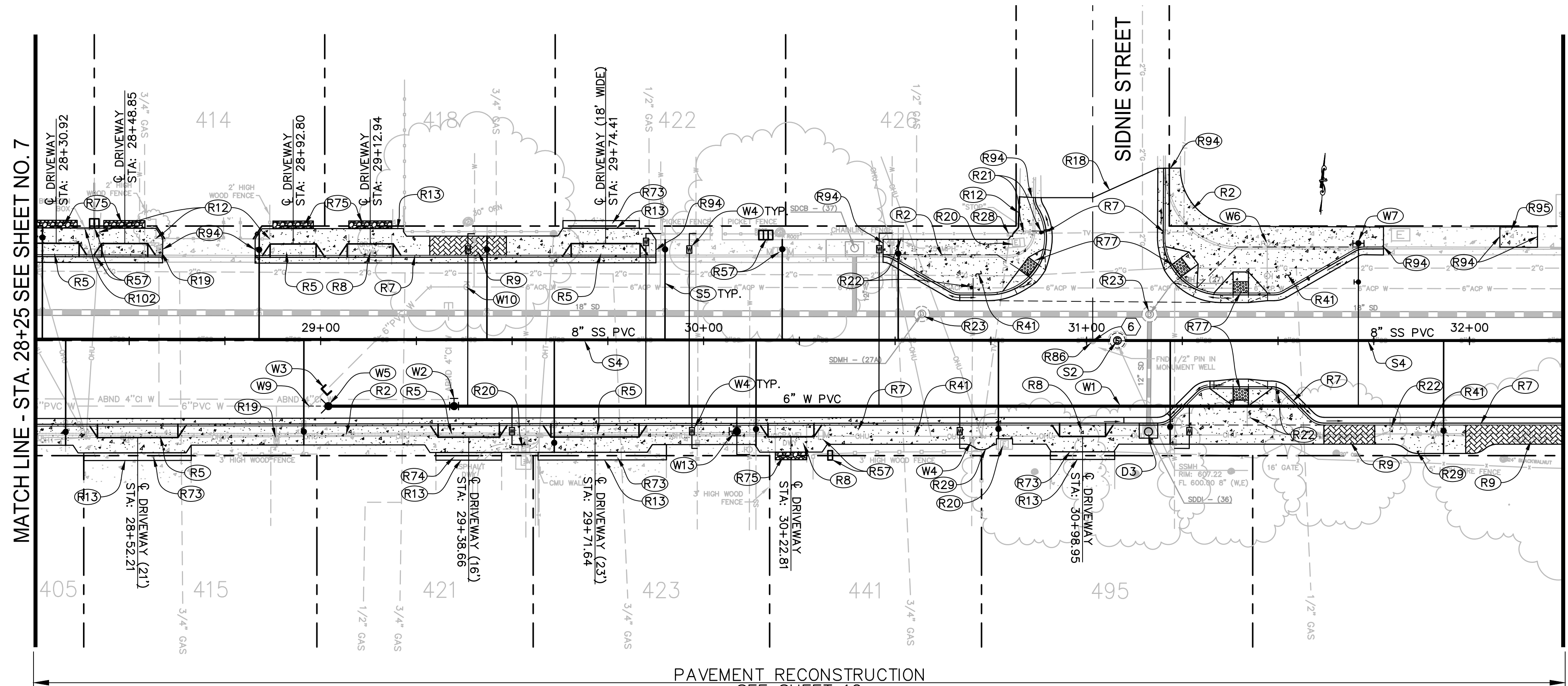
PROJECT NUMBER  
29-4352

DRAWING DATE  
APRIL 2020

SHEET NUMBER  
**7** OF **31**

CLARA AVENUE RECONSTRUCTION PROJECT

Xrefs: 292144-CLARA-RR.sp.dwg, 294352-clara\_lp-PR12.dwg, 294352-PF-3D-CLARA-PR12.dwg, 6246\_POLES.dwg, CCE-ENGINEERS STAMPS-PLAN.dwg, 294352-CLARA\_BDRY.dwg, 294352-clara\_RT-sp-ph1.dwg, 294352-clara\_RT-sp-ph1.dwg, 294352-clara\_RT-sp-ph1.dwg, 294352-clara\_RT-sp-ph1.dwg, 294352-clara\_RT-sp-ph1.dwg  
 images: Heidi Uttterback-040519  
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 ORIGINAL PLOT DATE: 3  
 ORIGINAL SCALE IS IN INCHES  
 REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES



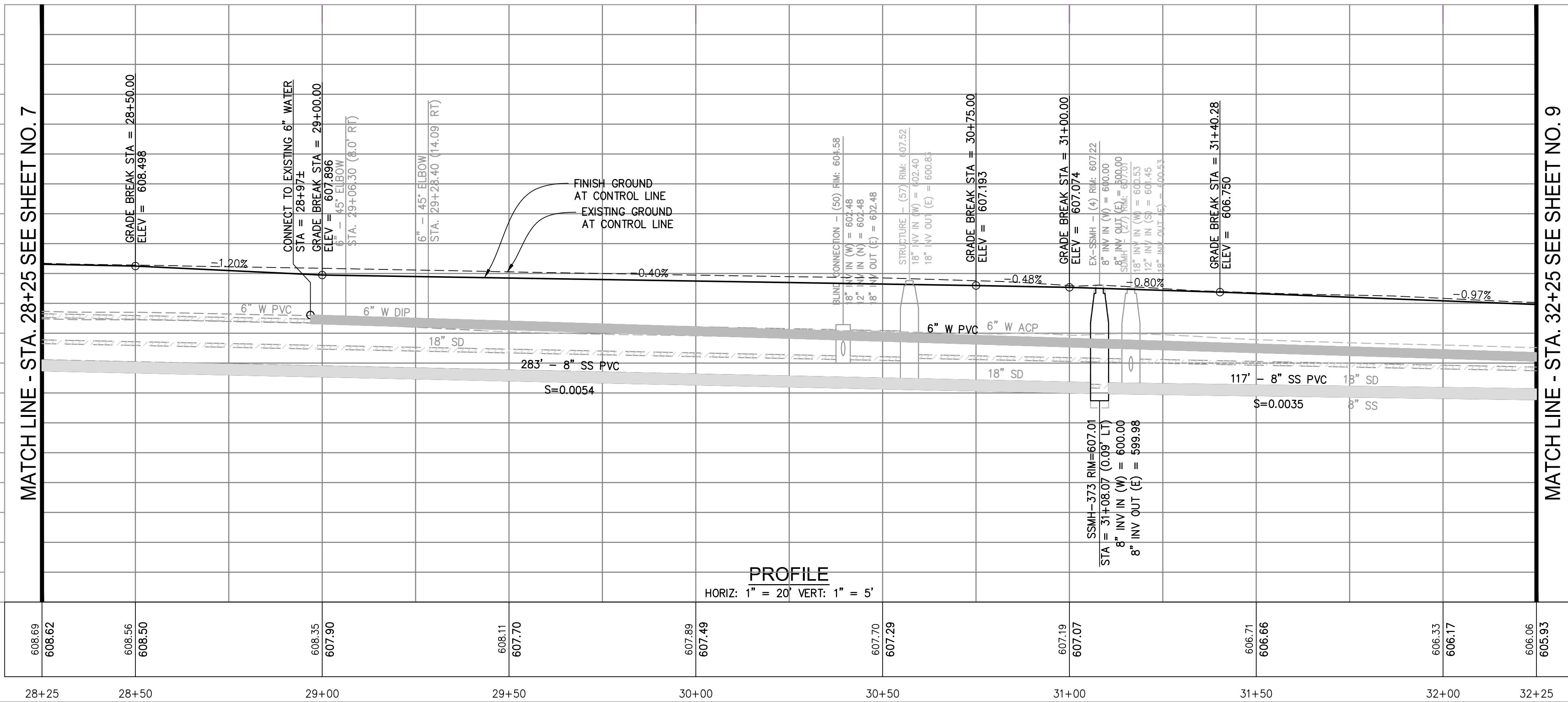
- CONSTRUCTION NOTES**
- (D3) REMOVE EXISTING DROP INLET AND INSTALL TYPE 4AC CURB INLET PER CITY STD. 403, 406 & 408.
  - (R2) REMOVE EXISTING CURB, GUTTER AND SIDEWALK OR DRIVEWAY.
  - (R5) REMOVE EXISTING CONCRETE DRIVEWAY, INSTALL DRIVEWAY PER DETAIL (5/17)
  - (R7) INSTALL CURB AND GUTTER PER DETAIL (8/16)
  - (R8) INSTALL DRIVEWAY PER DETAIL (5/17)
  - (R9) INSTALL CONCRETE PAVERS PER DETAIL (2/17)
  - (R12) REMOVE EXISTING FENCE AND INSTALL AT BACK OF NEW SIDEWALK.
  - (R13) SAWCUT AND CONFORM TO EXISTING CONCRETE.
  - (R18) SAWCUT AND CONFORM TO EXISTING ASPHALT CONCRETE.
  - (R19) ADJUST WATER METER BOX TO FINISH GRADE.
  - (R20) ADJUST ELECTRICAL VAULT TO FINISH GRADE.
  - (R21) RELOCATE EXISTING STOP SIGN PER PLAN.
  - (R22) RELOCATE OR RESET ROAD SIGN AS REQUIRED.
  - (R23) ADJUST STORM DRAIN MANHOLE TO FINISH GRADE PER DETAIL (5/16)
  - (R28) ADJUST CABLE TV BOX TO FINISH GRADE.
  - (R29) INSTALL SIDEWALK WARP PER DETAIL (1/17)
  - (R41) INSTALL PCC SIDEWALK PER DETAIL (7/16)
  - (R57) RELOCATE MAILBOX TO BACK OF SIDEWALK PER DETAIL (11/16)
  - (R73) REMOVE EXISTING CONCRETE & INSTALL CONCRETE DRIVEWAY CONFORM (2' MINIMUM LENGTH) PER DETAIL (6/17)
  - (R74) REMOVE EXISTING ASPHALT CONCRETE & INSTALL ASPHALT CONCRETE DRIVEWAY CONFORM (2' MINIMUM LENGTH) PER DETAIL (6/17)
  - (R75) INSTALL GRAVEL DRIVEWAY CONFORM (2' MINIMUM LENGTH) PER DETAIL (6/17)
  - (R77) INSTALL TYPE "A" CURB RAMP PER CALTRANS STD PLAN A88A AND PER DETAILS (1/15, 2/15, 3/15)
  - (R86) RESET MONUMENT WELL PER CITY STD 140.
  - (R94) SAWCUT AND CONFORM TO EXISTING CONCRETE PER DETAIL (4/17)
  - (R95) REMOVE EXISTING CONCRETE SIDEWALK & INSTALL SIDEWALK PER DETAIL (7/16)
  - (R102) RELOCATE BULLETIN BOARD.
  - (S2) REMOVE EXISTING MANHOLE AND INSTALL 48" SANITARY SEWER MANHOLE PER CITY STD 201.
  - (S4) REMOVE EXISTING SANITARY SEWER MAIN AND INSTALL 8" PVC SANITARY SEWER MAIN PER CITY STANDARDS.
  - (S5) REMOVE OR ABANDON EXISTING SANITARY SEWER LATERAL FROM SEWER MAIN TO BACK OF SIDEWALK AND INSTALL 4" SANITARY SEWER LATERAL SIMILAR TO CITY STD 210. CLEANOUTS TO BE PLACED 18" BEHIND FACE OF CURB. CLEANOUTS IN A DRIVEWAY SHALL BE PLACED 18" BEHIND DRIVEWAY APRON.
  - (W1) CONSTRUCT WATER MAIN PER CITY STANDARDS.
  - (W2) INSTALL GATE VALVE PER CITY STD. 307.
  - (W3) PLUG EXISTING WATER MAIN AND ABANDON PER (1/18)
  - (W4) INSTALL 3/4" WATER SERVICE SIMILAR TO CITY STD. 301 WITH CHRISTY B12 BOX & LID (OR APPROVED EQUAL).
  - (W5) INSTALL TEMPORARY BLOW OFF PER DETAIL (4/18)
  - (W6) REMOVE & ABANDON EXISTING FIRE HYDRANT AND SERVICE.
  - (W7) INSTALL FIRE HYDRANT PER CITY STD. 305.
  - (W9) REMOVE EXISTING THRUST BLOCK AND CONNECT TO EXISTING WATER UNDER AUTHORIZED CITY INSPECTION, AND INSTALL FITTINGS AS REQUIRED.
  - (W10) WATER VALVE TO BE REMOVED/ABANDONED FOLLOWING NEW WATER SERVICE CONNECTION.
  - (W13) INSTALL NEW WATER SERVICE AND GATE VALVE SIMILAR TO CITY STD 301. WATER SERVICE AND GATE VALVE TO MATCH EXISTING. CONTRACTOR TO POT-HOLE TO DETERMINE SIZE PRIOR TO WATER FACILITY CONSTRUCTION AND NOTIFY THE ENGINEER.

**CONTROL LINE POINT DATA**

| POINT NO. | NORTHING | EASTING | DESCRIPTION                          |
|-----------|----------|---------|--------------------------------------|
| 6         | 13373.01 | 6705.16 | INTERSECTION CLARA AVE. & SIDNIE ST. |

# CLARA AVENUE

CLARA-CL Profile



HEIDI E. UTTTERBACK  
PROFESSIONAL ENGINEER & LAND SURVEYOR  
No. 53723  
STATE OF CALIFORNIA

---

PREPARED UNDER THE DIRECTION OF  
 Heidi E. Uttterback 4/23/2020  
 HEIDI E. UTTTERBACK, RCE 53723 DATE  
 DESIGNED BY: WJK  
 DRAWN BY: WJK  
 REVIEWED BY: HEU

---

**Coastland Civil Engineering, Inc.**  
 1400 Neotomas Avenue, Santa Rosa, CA 95405  
 707.571.8037 Fax  
 707.571.8005

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CITY OF UKIAH  
 CLARA AVENUE RECONSTRUCTION PROJECT  
 SPECIFICATION NO. 20-08

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**PLAN & PROFILE**  
**STA. 28+25 TO STA. 32+25**

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CITY OF UKIAH  
 CLARA AVENUE RECONSTRUCTION PROJECT

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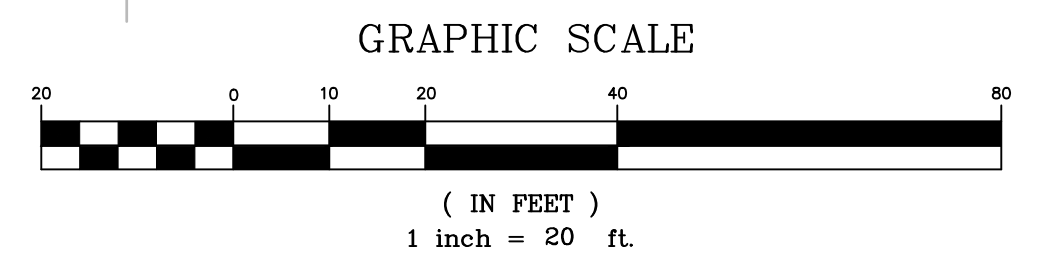
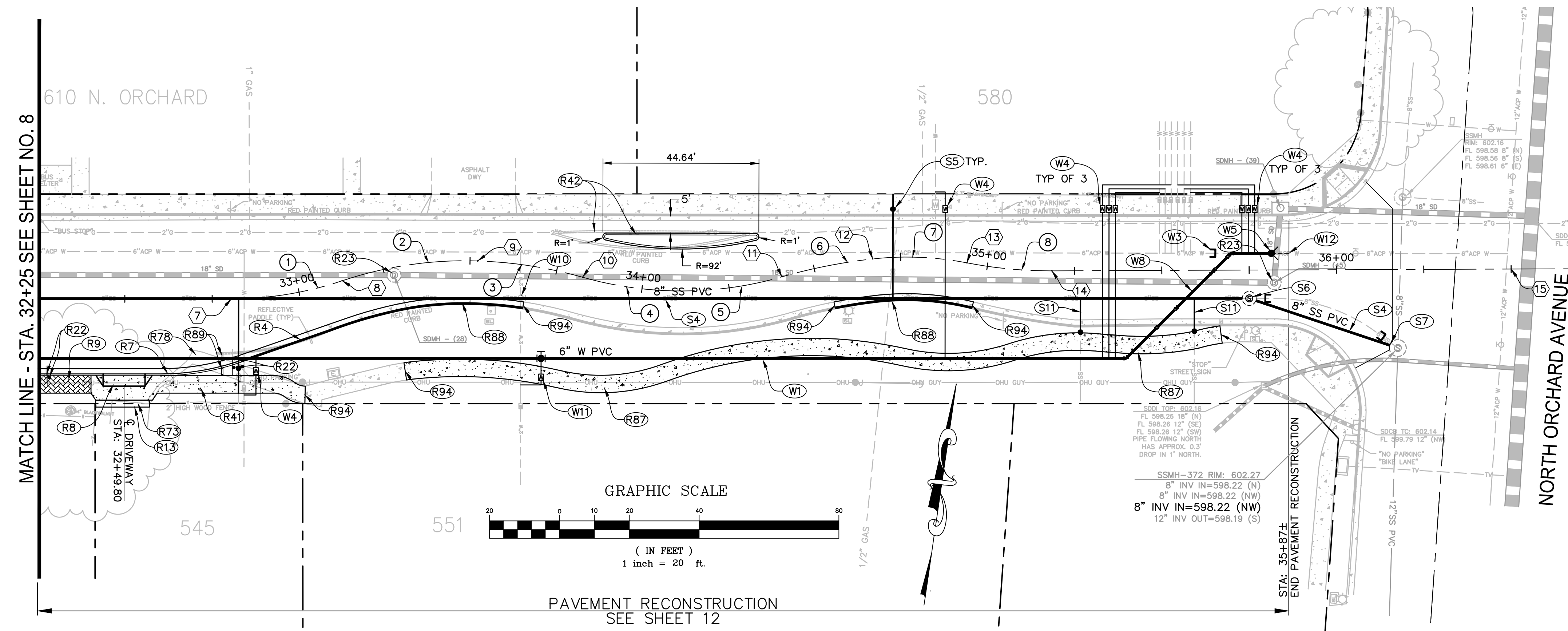
PROJECT NUMBER  
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SHEET NUMBER  
**8** OF **31**

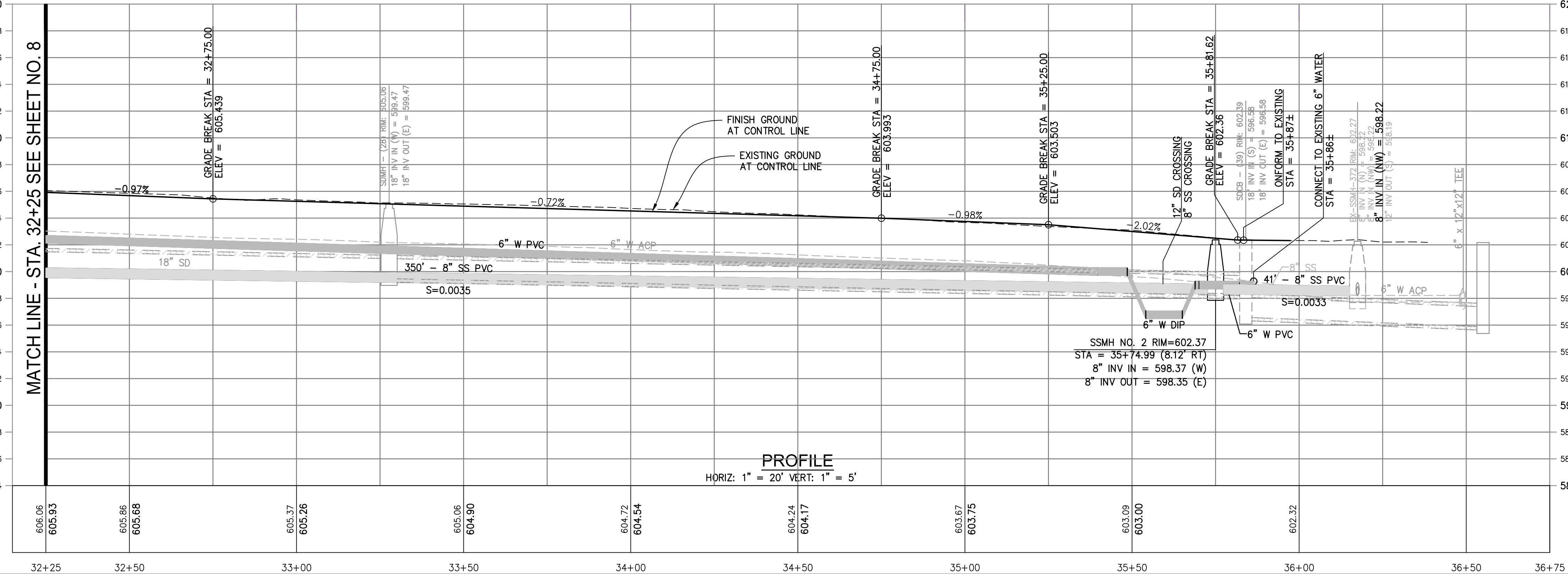


Xrefs: 292144-CLARA-RR.sp.dwg, 294352-clara\_lp-PH2.dwg, 294352-PF-3D-CLARA-PH2.dwg, 294352-POLES.dwg, COE-ENGINEERS STAMPS-PLAN.dwg, 294352-CLARA\_BDRY.dwg, 294352-clara\_TP-sp-ph1.dwg, 294352-clara\_RR-RIMP.dwg, PLOT REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES  
 images: Heidi, signature=due, jg  
 Path: F:\Civil\_3D\Projects\294352-CLARA\_PHASE\_2\DWG\294352-clara.sp-PH2.dwg Layout Name: Sheet 9 Plot Date: Apr 23, 2020 at 02:48 pm  
 ORIGINAL PLOT DATE:



# CLARA AVENUE

- ### CONSTRUCTION NOTES
- (R4) REMOVE EXISTING CURB & GUTTER, INSTALL NEW CURB AND GUTTER PER DETAIL (8, 16)
  - (R7) INSTALL CURB AND GUTTER PER DETAIL (8, 16)
  - (R8) INSTALL DRIVEWAY PER DETAIL (5, 17)
  - (R9) INSTALL CONCRETE PAVERS PER DETAIL (2, 17)
  - (R13) SAWCUT AND CONFORM TO EXISTING CONCRETE.
  - (R22) RELOCATE OR RESET ROAD SIGN AS REQUIRED.
  - (R23) ADJUST STORM DRAIN MANHOLE TO FINISH GRADE PER DETAIL (5, 16)
  - (R41) INSTALL PCC SIDEWALK PER DETAIL (7, 16)
  - (R42) REMOVE EXISTING CURB & GUTTER ISLAND, INSTALL PCC VERTICAL CURB ISLAND PER PLAN AND DETAIL (9, 16)
  - (R73) REMOVE EXISTING CONCRETE & INSTALL CONCRETE DRIVEWAY CONFORM (2' MINIMUM LENGTH) PER DETAIL (6, 17)
  - (R78) REMOVE EXISTING ASPHALT CONCRETE WALKWAY.
  - (R87) REMOVE & REPLACE CONCRETE SIDEWALK AS REQUIRED FOR WATER MAIN INSTALLATION.
  - (R88) REMOVE & REPLACE CURB & GUTTER AS REQUIRED FOR WATER MAIN INSTALLATION.
  - (R89) RELOCATE OR RESET REFLECTIVE PADDLE AS REQUIRED.
  - (R94) SAWCUT AND CONFORM TO EXISTING CONCRETE PER DETAIL (4, 17)
  - (S4) REMOVE EXISTING SANITARY SEWER MAIN AND INSTALL 8\"/>



| CONTROL LINE POINT DATA |          |         |                         |
|-------------------------|----------|---------|-------------------------|
| POINT NO.               | NORTHING | EASTING | DESCRIPTION             |
| (7)                     | 13385.96 | 6883.59 | BEGIN CURVE             |
| (8)                     | 13393.41 | 6914.85 | POINT OF REVERSE CURVE  |
| (9)                     | 13401.88 | 6953.10 | POINT OF COMPOUND CURVE |
| (10)                    | 13399.40 | 6983.41 | POINT OF REVERSE CURVE  |
| (11)                    | 13403.66 | 7040.32 | POINT OF REVERSE CURVE  |
| (12)                    | 13410.64 | 7065.87 | POINT OF COMPOUND CURVE |
| (13)                    | 13411.48 | 7092.83 | POINT OF REVERSE CURVE  |
| (14)                    | 13410.96 | 7117.26 | END CURVE               |
| (15)                    | 13420.99 | 7248.34 | STATION 36+50           |

| CONTROL LINE CURVE DATA |        |        |               |
|-------------------------|--------|--------|---------------|
| CURVE NO.               | RADIUS | LENGTH | DELTA         |
| (1)                     | 100.00 | 32.28  | Δ = 18°29'40" |
| (2)                     | 111.00 | 39.38  | Δ = 20°19'44" |
| (3)                     | 125.00 | 30.48  | Δ = 13°58'12" |
| (4)                     | 104.00 | 57.81  | Δ = 31°51'04" |
| (5)                     | 104.00 | 57.81  | Δ = 31°51'04" |
| (6)                     | 155.00 | 26.52  | Δ = 9°48'09"  |
| (7)                     | 90.00  | 27.08  | Δ = 17°14'17" |
| (8)                     | 125.00 | 24.48  | Δ = 11°13'09" |

PREPARED UNDER THE DIRECTION OF  
 HEIDI E. UTTERBACK  
 HEIDI E. UTTERBACK, RCE 53723 DATE 4/23/2020  
 DESIGNED BY UTTERBACK  
 DRAWN BY WJK  
 REVIEWED BY HEU

CALIFORNIA  
 CLARA AVENUE RECONSTRUCTION PROJECT  
 SPECIFICATION NO. 20-08

## PLAN & PROFILE

### STA. 32+25 TO STA. 36+50

CITY OF UKIAH

PROJECT NUMBER  
 29-4352

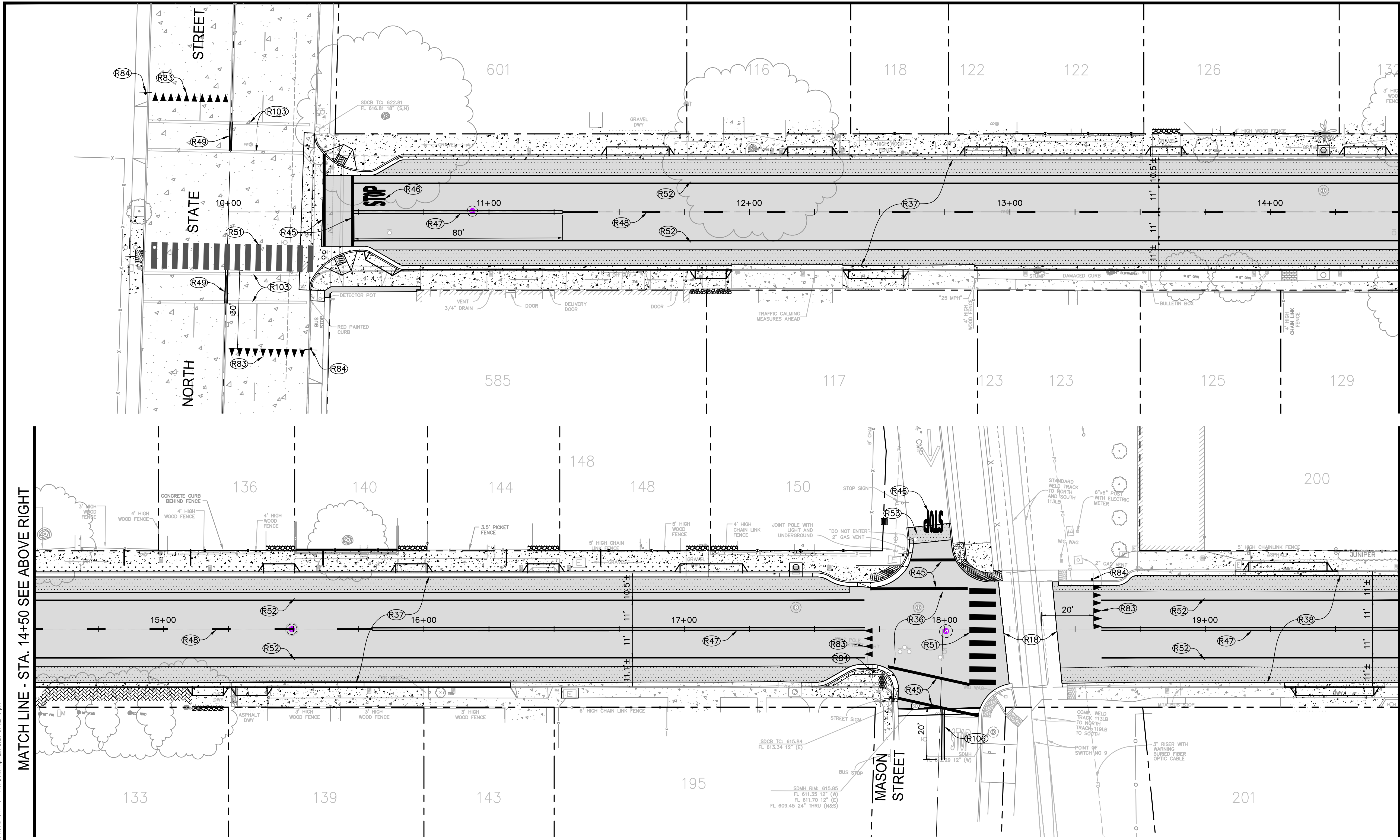
DRAWING DATE  
 APRIL 2020

SHEET NUMBER  
 9 OF 31

CLARA AVENUE RECONSTRUCTION PROJECT

FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES



MATCH LINE - STA. 14+50 SEE BELOW LEFT

MATCH LINE - STA. 19+75 SEE SHEET NO. 11

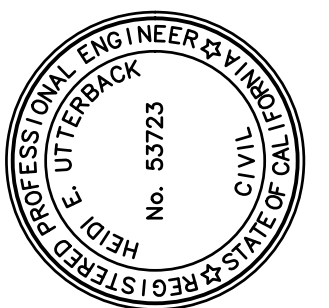
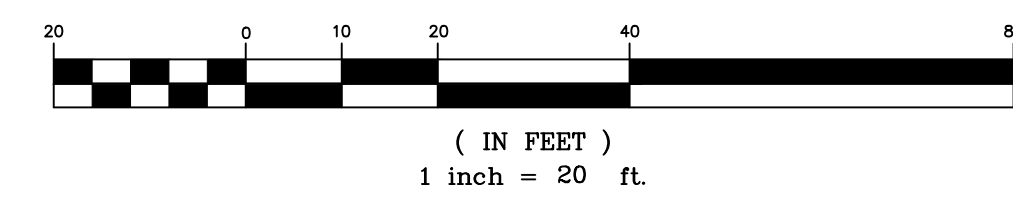
**CONSTRUCTION NOTES**

- (R18) SAWCUT AND CONFORM TO EXISTING ASPHALT CONCRETE.
- (R36) RECONSTRUCT EXISTING ROADWAY PER DETAIL  $\frac{3}{16}$
- (R37) RECONSTRUCT EXISTING ROADWAY PER DETAIL  $\frac{1}{16}$
- (R38) RECONSTRUCT EXISTING ROADWAY PER DETAIL  $\frac{2}{16}$
- (R45) THERMOPLASTIC 12" WHITE CROSSWALK / LIMIT LINE PER CALTRANS STD. PLAN A24E.
- (R46) THERMOPLASTIC STOP LEGEND PER CALTRANS STD. PLAN A24D.
- (R47) THERMOPLASTIC NO PASSING STRIPE DETAIL 21 PER CALTRANS STD. PLAN A20A.
- (R48) THERMOPLASTIC CENTERLINE STRIPE DETAIL 1 PER CALTRANS STD. PLAN A20A.
- (R49) THERMOPLASTIC CENTERLINE STRIPE DETAIL 22 PER CALTRANS STD PLAN A20A.
- (R51) CROSSWALK BARS PER DETAIL  $\frac{2}{12}$
- (R52) THERMOPLASTIC 6" SOLID WHITE EDGELINE.
- (R53) REMOVE EXISTING AC & INSTALL 6" FULL DEPTH AC.
- (R83) INSTALL WHITE THERMOPLASTIC YIELD LINE MARKINGS PER CALTRANS STD. PLAN A24E.
- (R84) INSTALL R1-5A YIELD HERE TO PEDESTRIANS SIGN ON NEW POST PER CITY STD DETAIL 116.
- (R103) REMOVE EXISTING CROSSWALK STRIPING.
- (R106) REMOVE EXISTING STRIPE & INSTALL THERMOPLASTIC NO PASSING STRIPE DETAIL 21 PER CALTRANS STD. PLAN A20A.

**LEGEND**

| DESCRIPTION                                      | PROPOSED | EXISTING |
|--|----------|----------|
| CONCRETE SIDEWALK OR CURB & GUTTER               |          |          |
| ASPHALT CONCRETE, THICKNESS PER TYPICAL SECTIONS |          | N/A      |
| 6 INCH THICK ROADWAY RECONSTRUCTION              |          | N/A      |
| PLANTER STRIP                                    |          | N/A      |
| CONCRETE PAVERS                                  |          | N/A      |

**GRAPHIC SCALE**



PREPARED UNDER THE DIRECTION OF  
**Heidi E. Utterback** 4/23/2020  
 HEIDI E. UTTERBACK, RCE 53723 DATE  
 DESIGNED BY: WJK  
 DRAWN BY: WJK  
 REVIEWED BY: HEU



**Coastland Civil Engineering, Inc.**  
 1400 Neotomas Avenue, Santa Rosa, CA 95405  
 707.571.8005

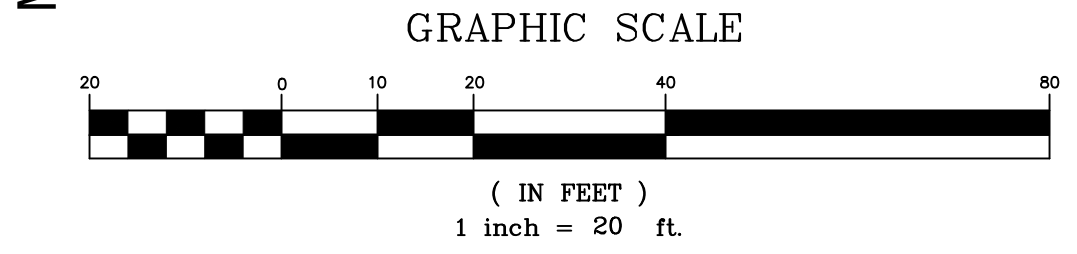
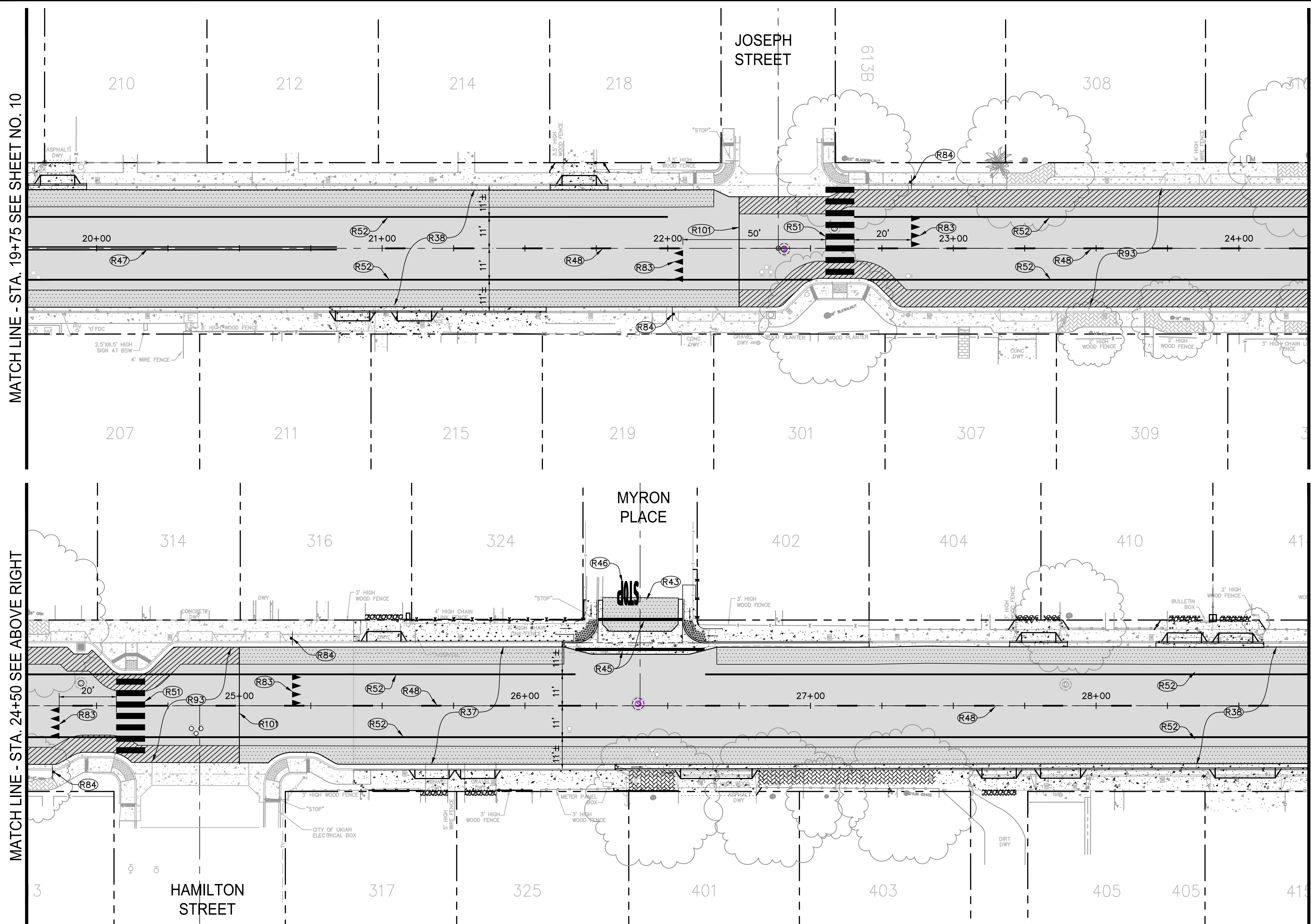
CALIFORNIA  
 CLARA AVENUE RECONSTRUCTION PROJECT  
 SPECIFICATION NO. 20-08  
 CITY OF UKIAH

**STRIPING & RECONSTRUCTION PLAN**  
**STA. 10+00 TO STA. 19+75**

PROJECT NUMBER  
 29-4352  
 DRAWING DATE  
 APRIL 2020  
 SHEET NUMBER  
**10 OF 31**

CLARA AVENUE RECONSTRUCTION PROJECT

FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES  
 ORIGINAL PLOT DATE: 3  
 2  
 1  
 0  
 20+00 21+00 22+00 23+00 24+00  
 207 211 215 219 301 307 309  
 314 316 324 402 404 410 411  
 317 325 401 403 405 405 411  
 HAMILTON STREET  
 MYRON PLACE  
 JOSEPH STREET  
 MATCH LINE - STA. 19+75 SEE SHEET NO. 10  
 MATCH LINE - STA. 24+50 SEE ABOVE RIGHT  
 MATCH LINE - STA. 24+50 SEE BELOW LEFT  
 MATCH LINE - STA. 28+75 SEE SHEET NO. 12  
 CONSTRUCTION NOTES  
 LEGEND  
 CLARA AVENUE RECONSTRUCTION PROJECT  
 SPECIFICATION NO. 20-08  
 CITY OF UKIAH  
 STRIPING & RECONSTRUCTION PLAN  
 STA. 19+75 TO STA. 28+75  
 PROJECT NUMBER 29-4352  
 DRAWING DATE APRIL 2020  
 SHEET NUMBER 11 OF 31  
 CLARA AVENUE RECONSTRUCTION PROJECT



- CONSTRUCTION NOTES**
- (R37) RECONSTRUCT EXISTING ROADWAY PER DETAIL (1/16)
  - (R38) RECONSTRUCT EXISTING ROADWAY PER DETAIL (2/16)
  - (R43) INSTALL 6" DEEP FULL DEPTH ASPHALT CONCRETE.
  - (R45) 12" WHITE CROSSWALK / LIMIT LINE PER CALTRANS STD. PLAN A24E.
  - (R46) THERMOPLASTIC STOP LEGEND PER CALTRANS STD. PLAN A24D.
  - (R47) THERMOPLASTIC NO PASSING STRIPE DETAIL 21 PER CALTRANS STD. PLAN A20A.
  - (R48) THERMOPLASTIC CENTERLINE STRIPE DETAIL 1 PER CALTRANS STD. PLAN A20A.
  - (R51) CROSSWALK BARS PER DETAIL (2/12)
  - (R52) THERMOPLASTIC 6" SOLID WHITE EDGELINE.
  - (R83) INSTALL WHITE THERMOPLASTIC YIELD LINE MARKINGS PER CALTRANS STD. PLAN A24E.
  - (R84) INSTALL R1-5A YIELD HERE TO PEDESTRIANS SIGN ON NEW POST PER CITY STD DETAIL 116.
  - (R93) OVERLAY EXISTING ROADWAY PER DETAIL (12/16)
  - (R10) CONFORM TO ASPHALT CONCRETE OVERLAY.

**LEGEND**

| DESCRIPTION                                      | PROPOSED | EXISTING |
|--|----------|----------|
| CONCRETE SIDEWALK OR CURB & GUTTER               |          | N/A      |
| ASPHALT CONCRETE, THICKNESS PER TYPICAL SECTIONS |          | N/A      |
| 6 INCH THICK ROADWAY RECONSTRUCTION              |          | N/A      |
| PLANTER STRIP                                    |          | N/A      |
| CONCRETE PAVERS                                  |          | N/A      |
| EDGE GRIND                                       |          | N/A      |

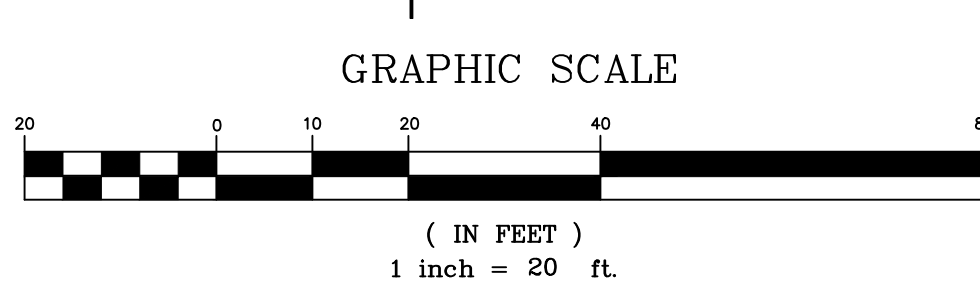
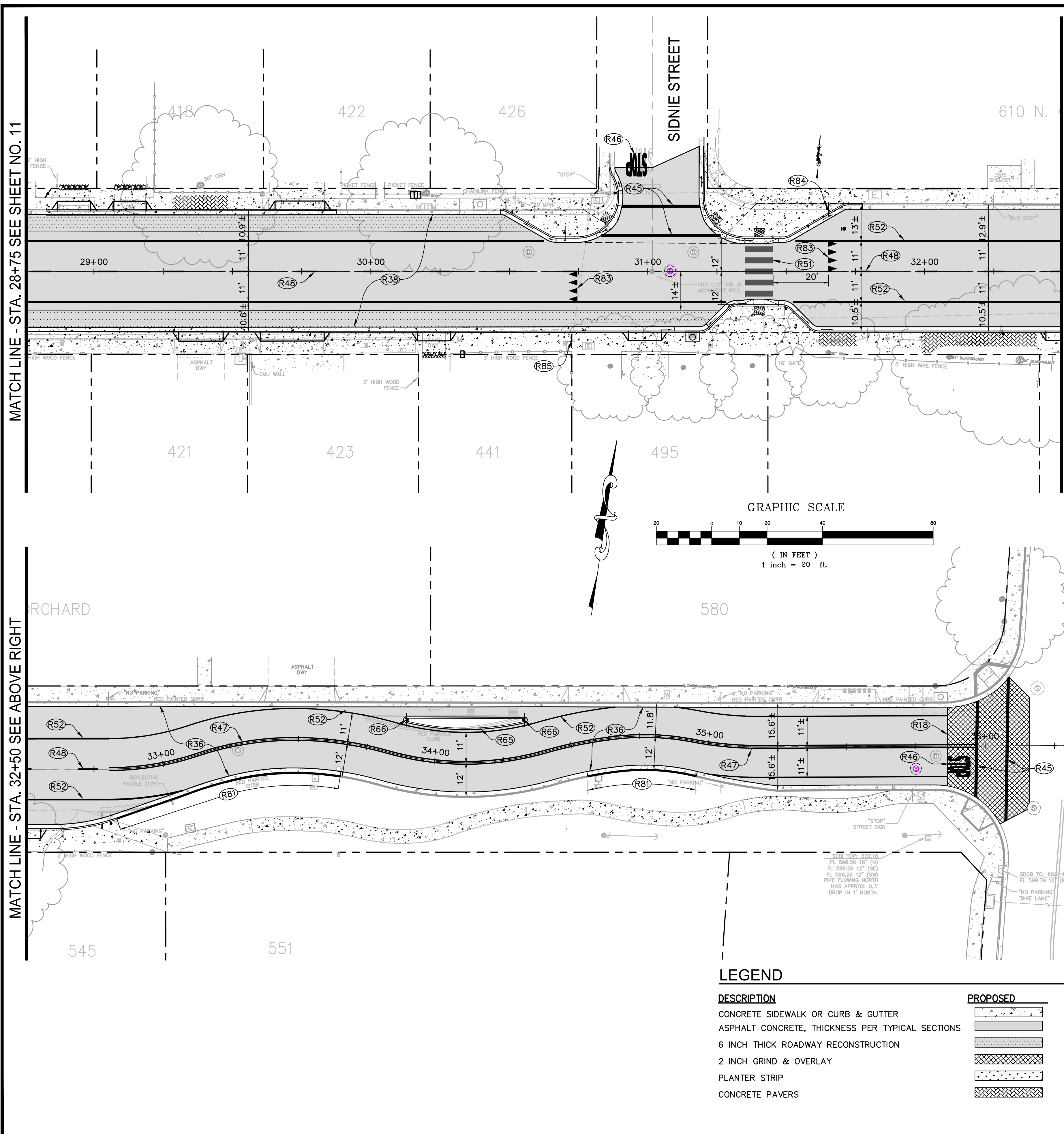
CLARA AVENUE RECONSTRUCTION PROJECT  
 SPECIFICATION NO. 20-08  
 CITY OF UKIAH  
 CALIFORNIA

**Coastland Civil Engineering, Inc.**  
 1400 Neotomas Avenue, Santa Rosa, CA 95405  
 707.571.8003 Fax

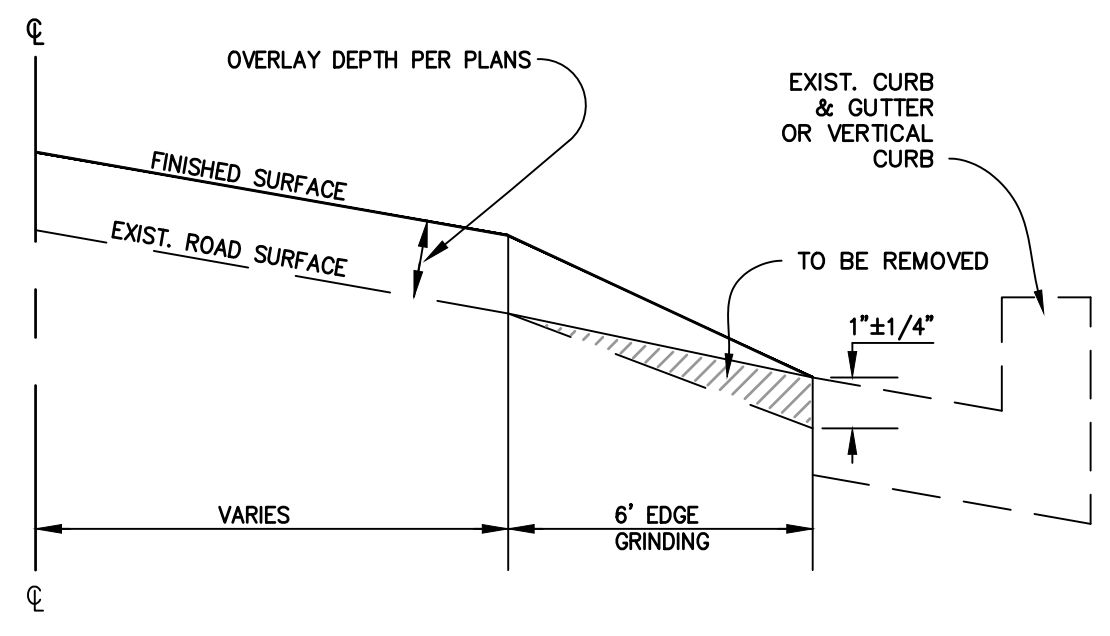
PREPARED UNDER THE DIRECTION OF  
 Heidi E. Utterback 4/23/2020  
 HEIDI E. UTTERBACK, RCE 53723 DATE  
 DESIGNED BY WJK  
 DRAWN BY WJK  
 REVIEWED BY HEU

FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

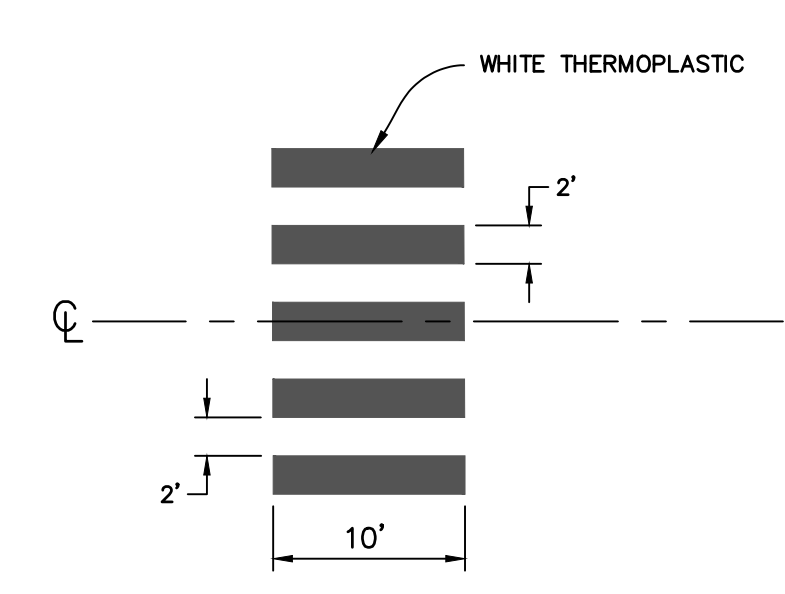


| DESCRIPTION                                      | PROPOSED | EXISTING |
|--|----------|----------|
| CONCRETE SIDEWALK OR CURB & GUTTER               |          |          |
| ASPHALT CONCRETE, THICKNESS PER TYPICAL SECTIONS |          | N/A      |
| 6 INCH THICK ROADWAY RECONSTRUCTION              |          | N/A      |
| 2 INCH GRIND & OVERLAY                           |          | N/A      |
| PLANTER STRIP                                    |          | N/A      |
| CONCRETE PAVERS                                  |          | N/A      |



NOTES:  
1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.

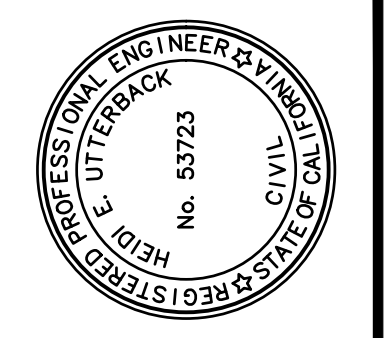
EDGE GRINDING AT LIP OF GUTTER FOR OVERLAY  
NOT TO SCALE



CROSSWALK BAR DETAIL  
NOT TO SCALE

CONSTRUCTION NOTES

- (R18) SAWCUT AND CONFORM TO EXISTING ASPHALT CONCRETE.
- (R36) RECONSTRUCT EXISTING ROADWAY PER DETAIL
- (R38) RECONSTRUCT EXISTING ROADWAY PER DETAIL
- (R45) 12" WHITE CROSSWALK / LIMIT LINE PER CALTRANS STD. PLAN A24E.
- (R46) THERMOPLASTIC STOP LEGEND PER CALTRANS STD. PLAN A24E.
- (R47) THERMOPLASTIC NO PASSING STRIPE DETAIL 21 PER CALTRANS STD. PLAN A20A.
- (R48) THERMOPLASTIC CENTERLINE STRIPE DETAIL 1 PER CALTRANS STD. PLAN A20A.
- (R51) CROSSWALK BARS PER DETAIL
- (R52) THERMOPLASTIC 6" SOLID WHITE EDGELINE.
- (R65) PAINT CURB WHITE (2 COATS).
- (R66) INSTALL TYPE K-1 OBJECT MARKER.
- (R81) PAINT CURB RED (2 COATS).
- (R83) INSTALL WHITE THERMOPLASTIC YIELD LINE MARKINGS PER CALTRANS STD. PLAN A24E.
- (R84) INSTALL R1-5A YIELD HERE TO PEDESTRIANS SIGN ON NEW POST PER CITY STD DETAIL 116.
- (R85) INSTALL R1-5A YIELD HERE TO PEDESTRIANS SIGN ON EXISTING JOINT POLE PER CITY STD.



PREPARED UNDER THE DIRECTION OF  
Heidi E. Utterback 4/23/2020  
HEIDI E. UTTERBACK, RCE 53723 DATE  
DESIGNED BY WJK  
DRAWN BY WJK  
REVIEWED BY HEU

**Coastland Civil Engineering, Inc.**  
1400 Neotomas Avenue, Santa Rosa, CA 95405  
707.571.8037 Fax 707.571.8005

CALIFORNIA  
CLARA AVENUE RECONSTRUCTION PROJECT  
SPECIFICATION NO. 20-08  
CITY OF UKIAH  
**STRIPING & RECONSTRUCTION PLAN**  
STA. 28+75 TO STA. 36+00

PROJECT NUMBER 29-4352  
DRAWING DATE APRIL 2020  
SHEET NUMBER 12 OF 31

CLARA AVENUE RECONSTRUCTION PROJECT

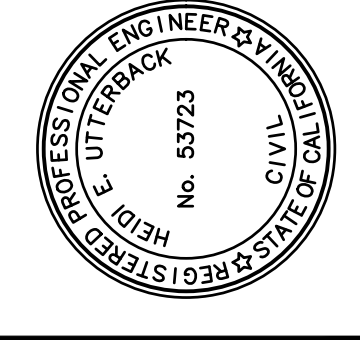
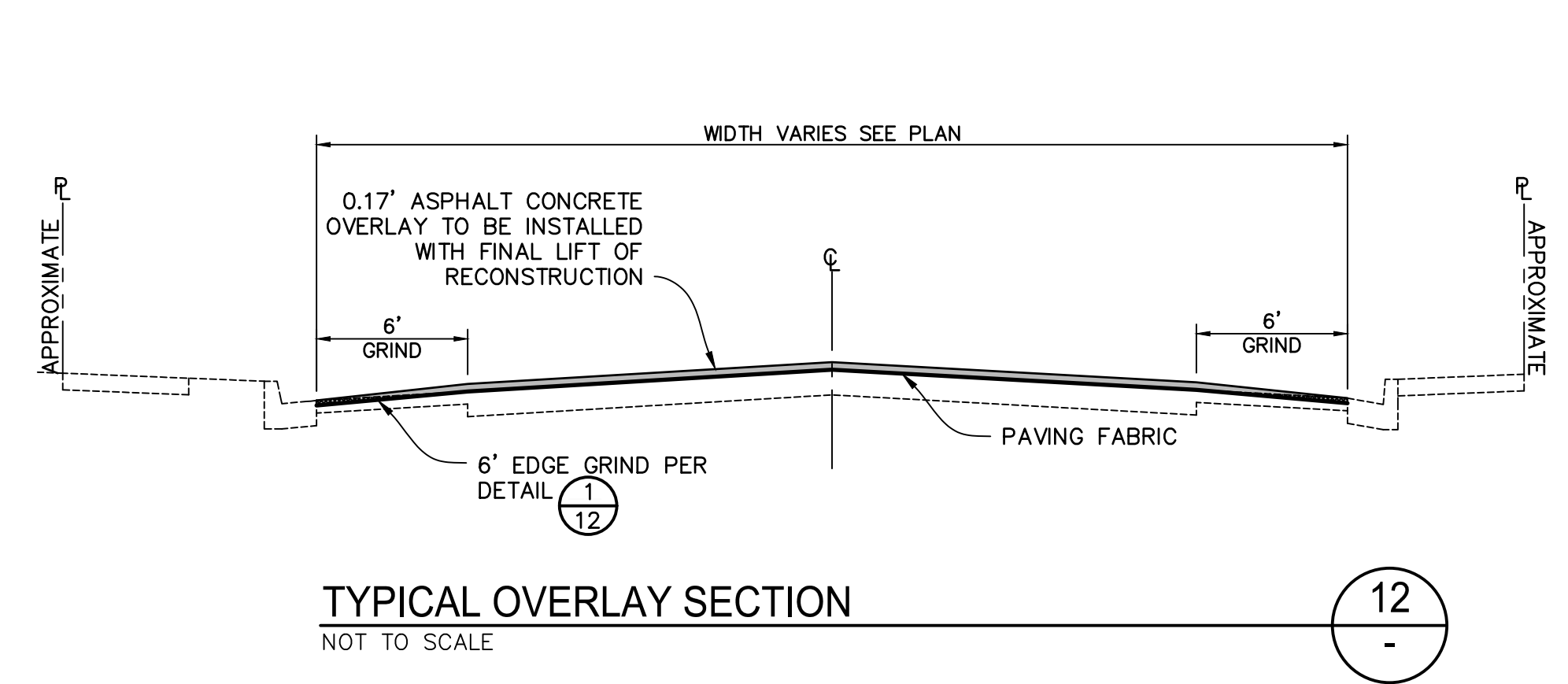
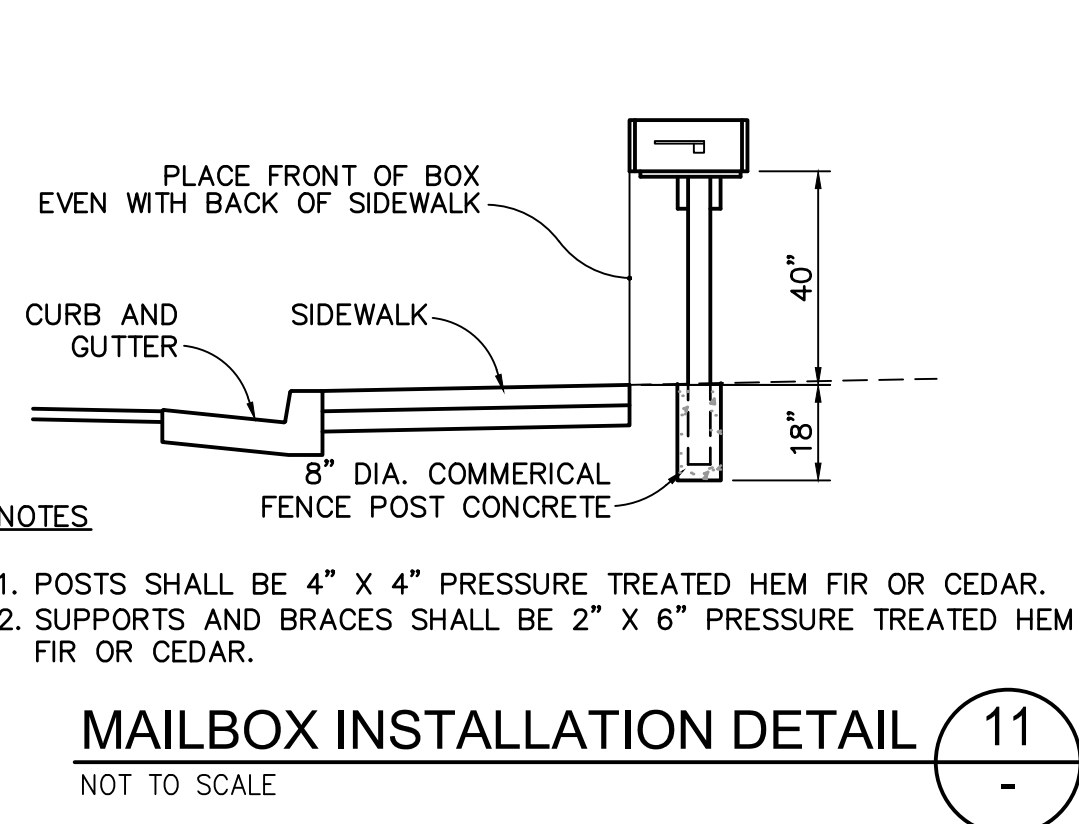
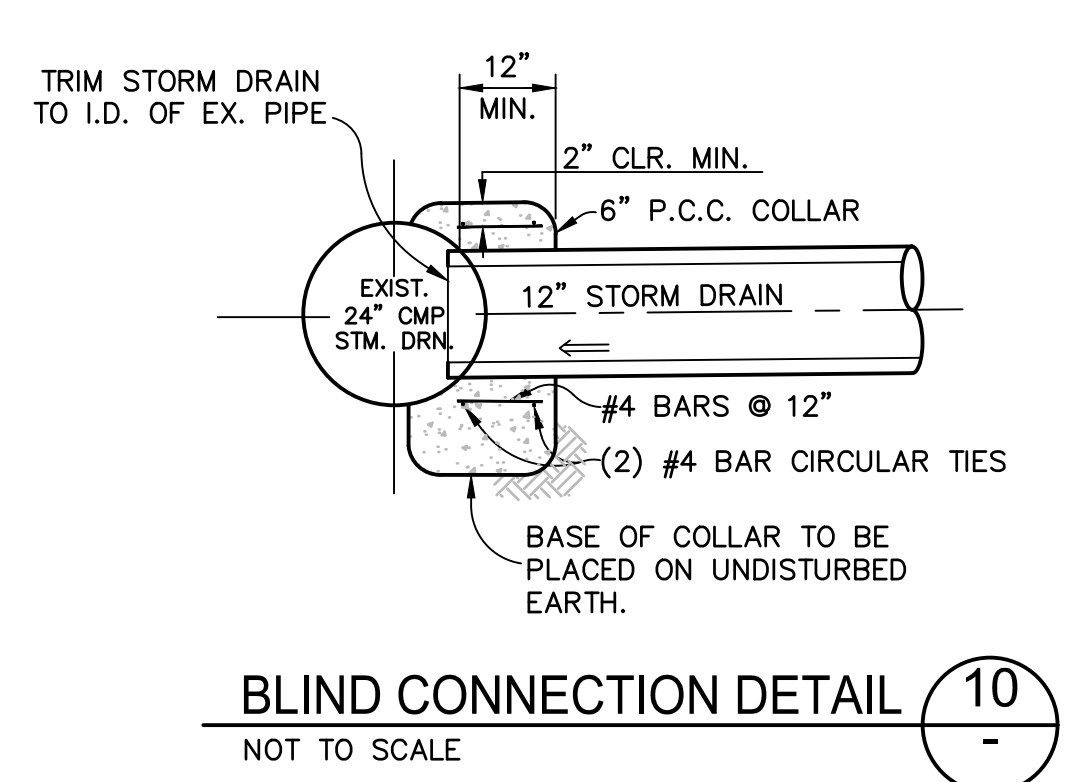
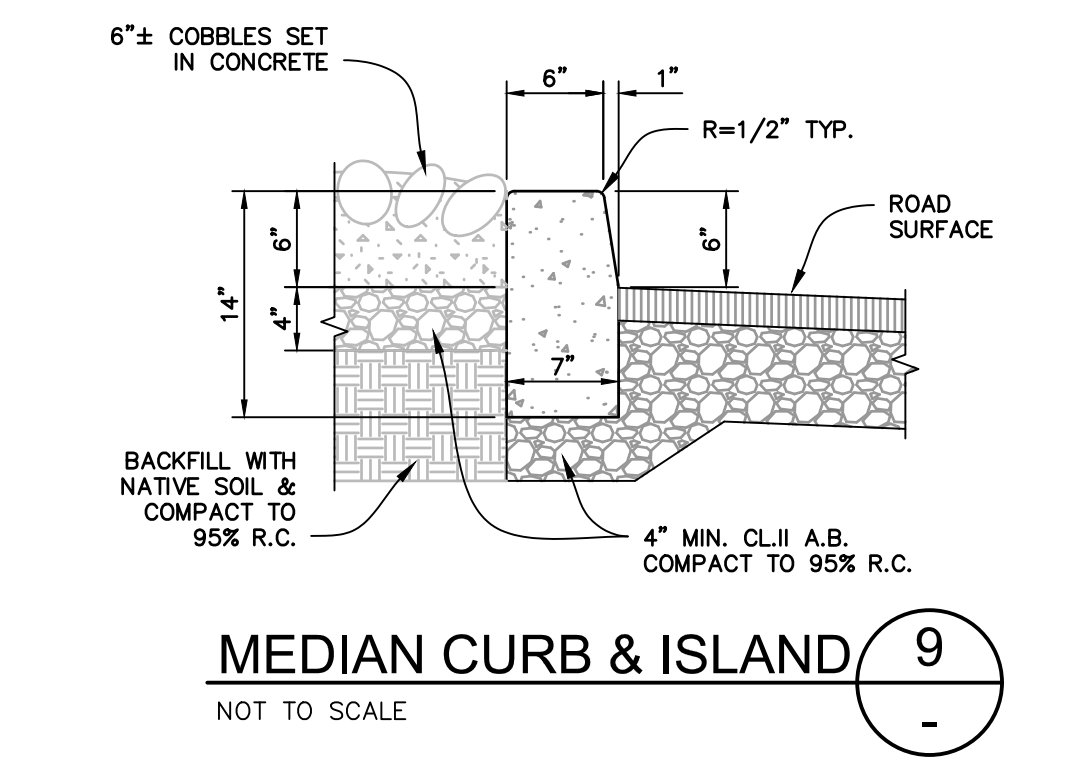
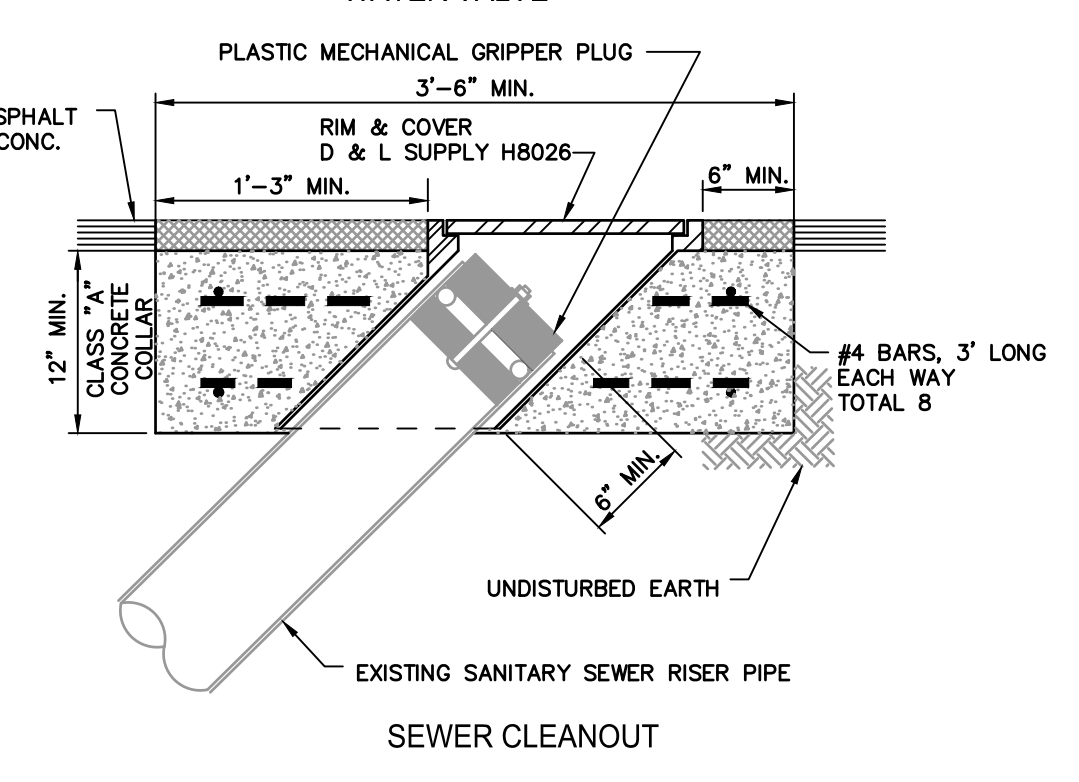
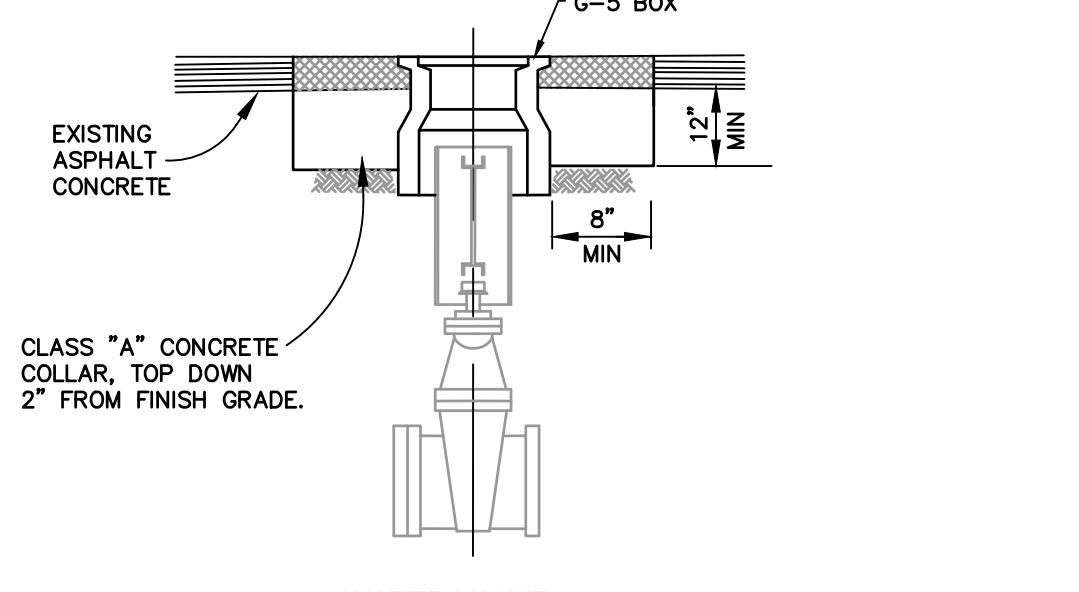
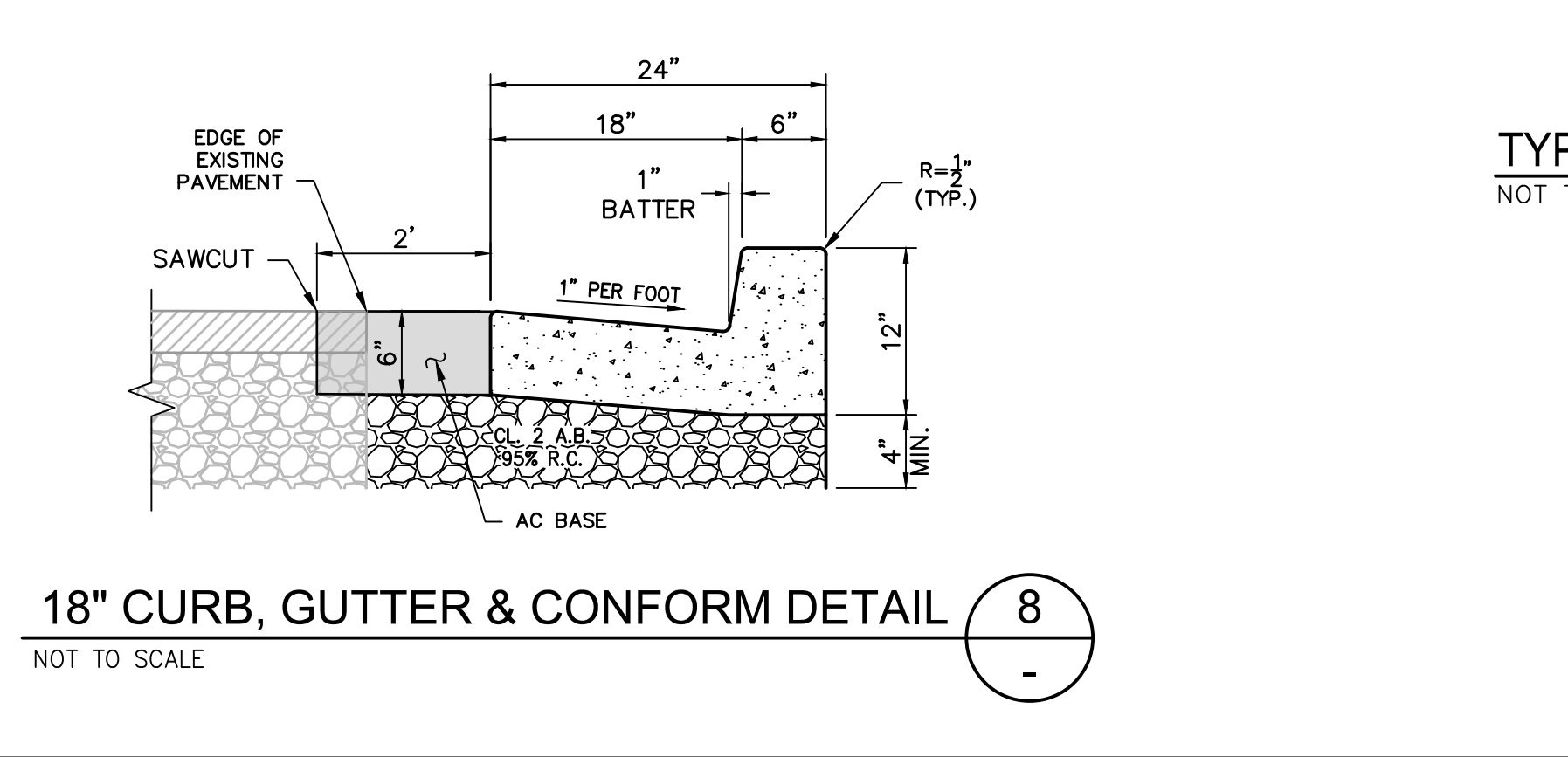
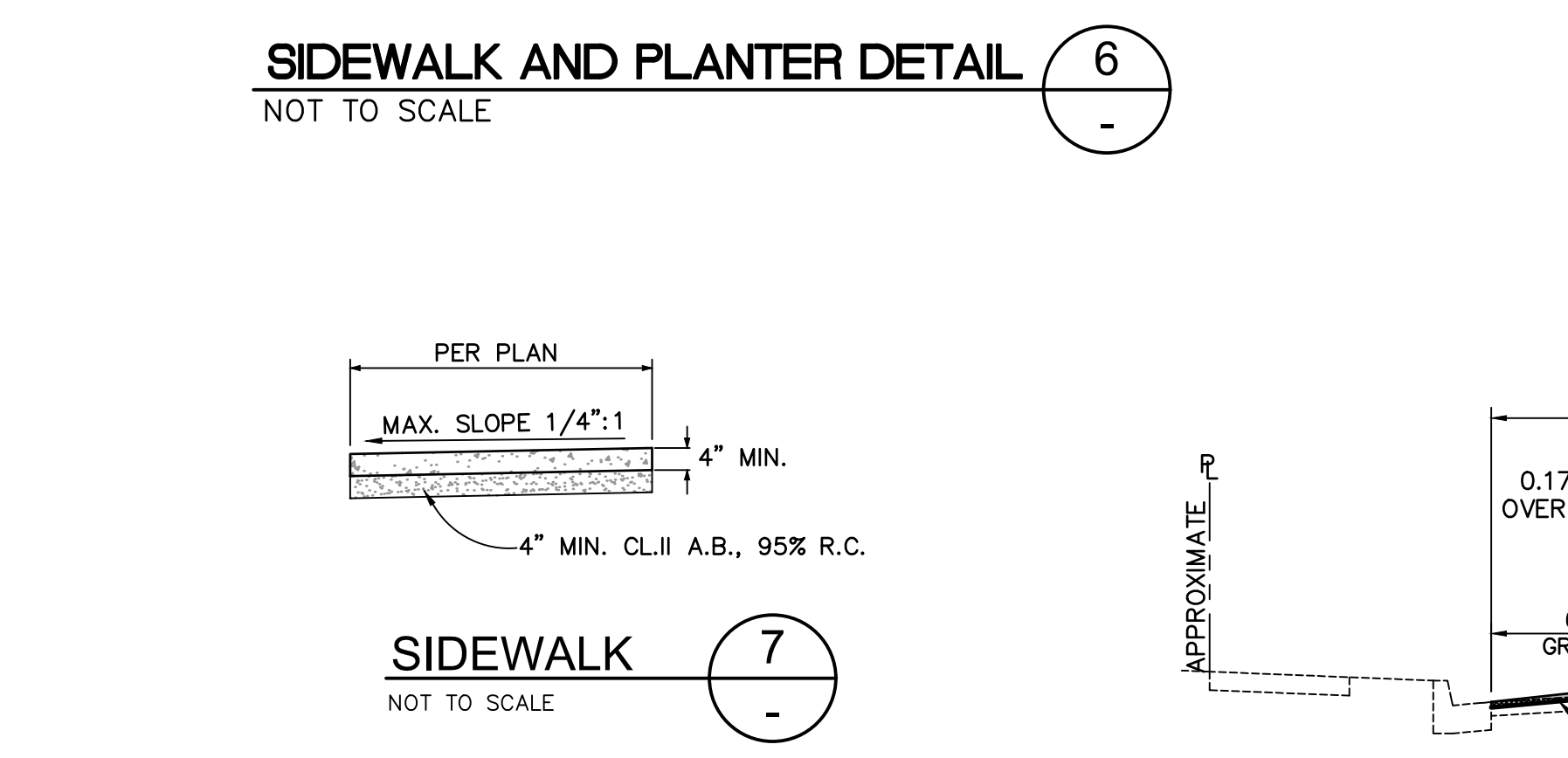
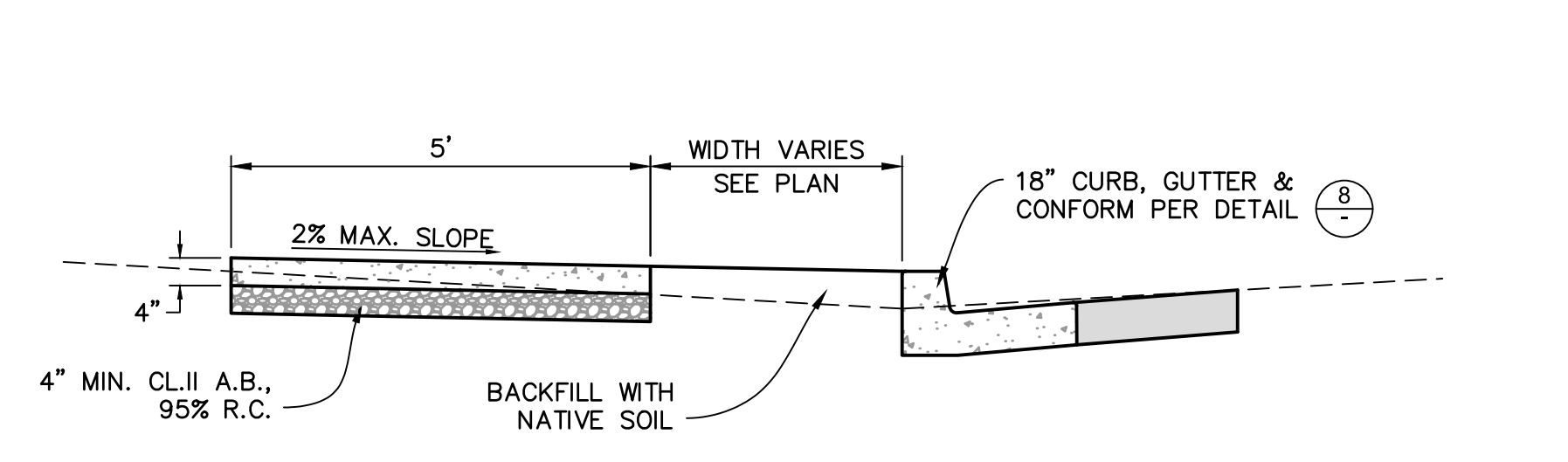
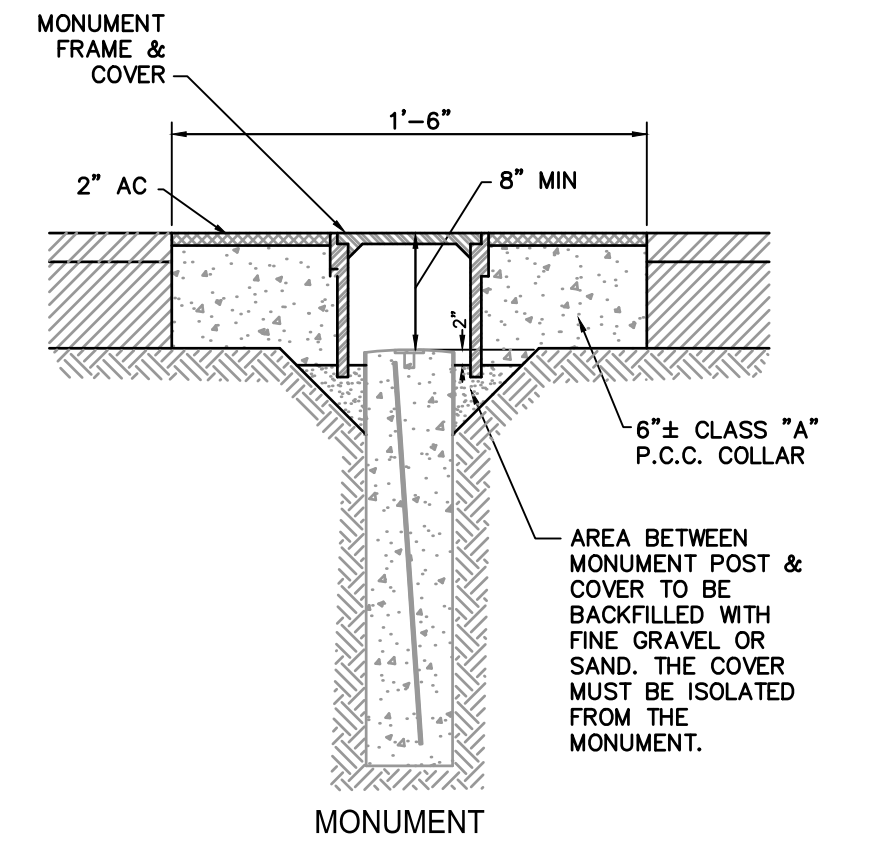
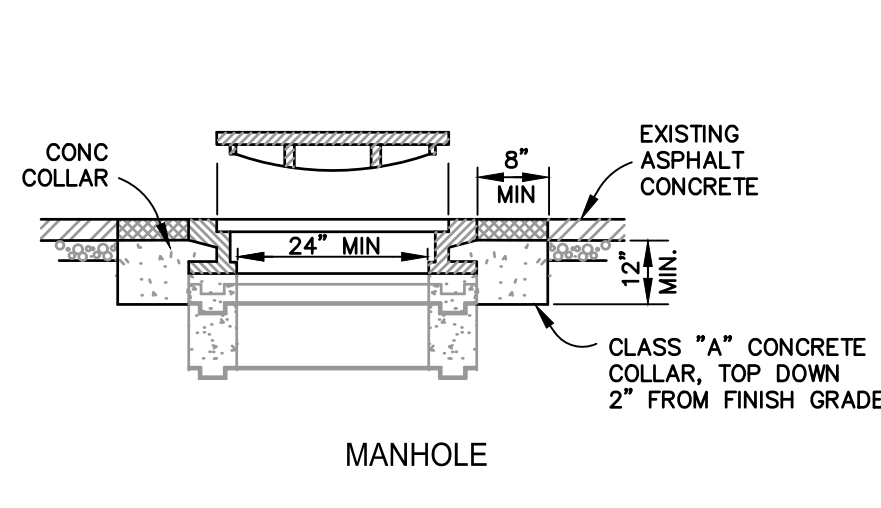
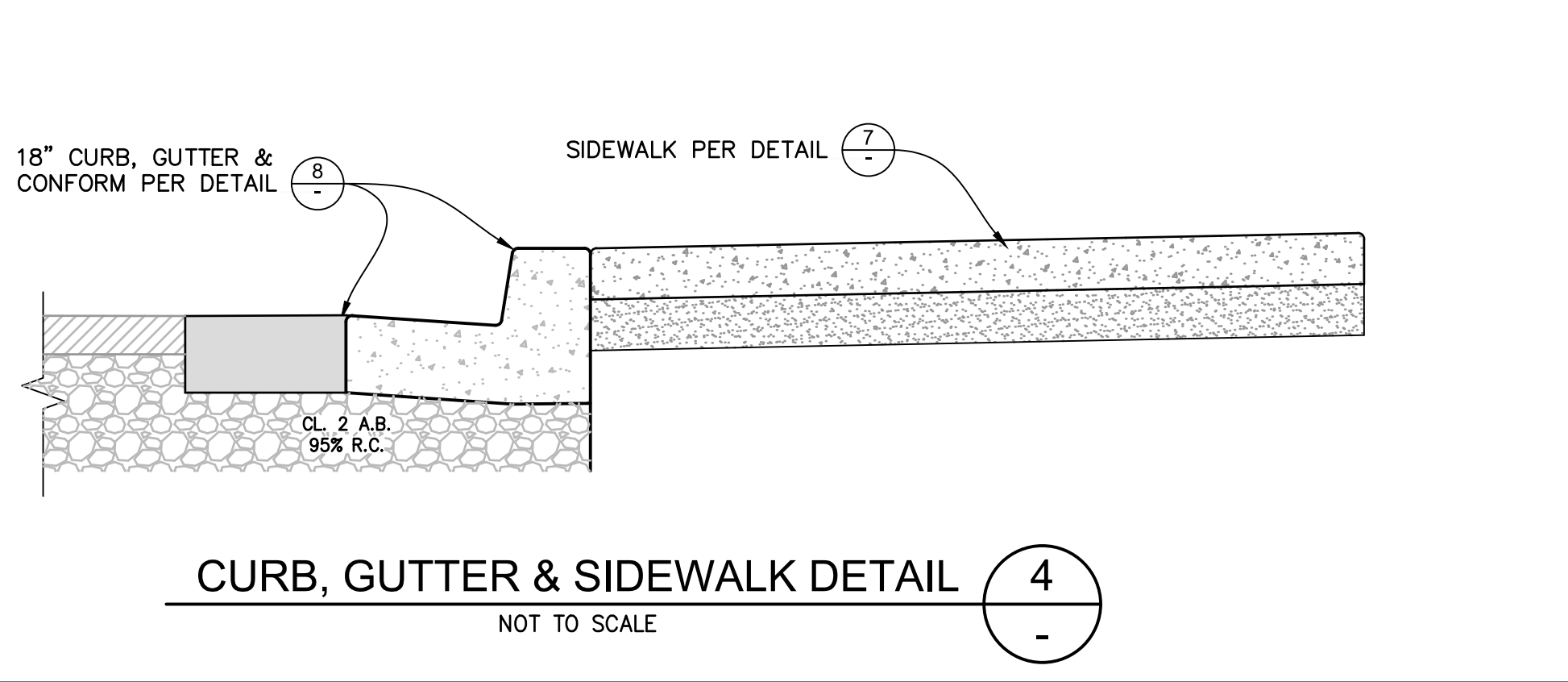
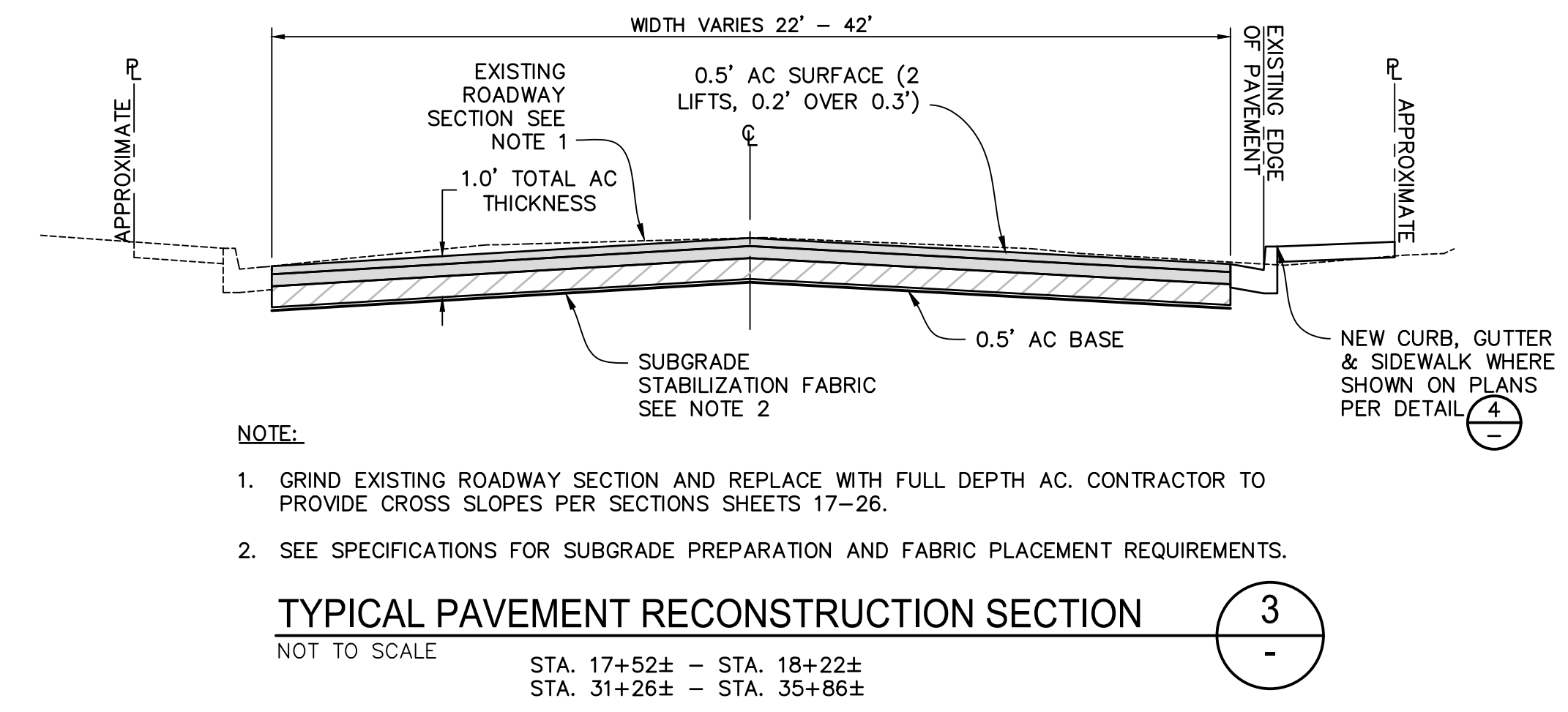
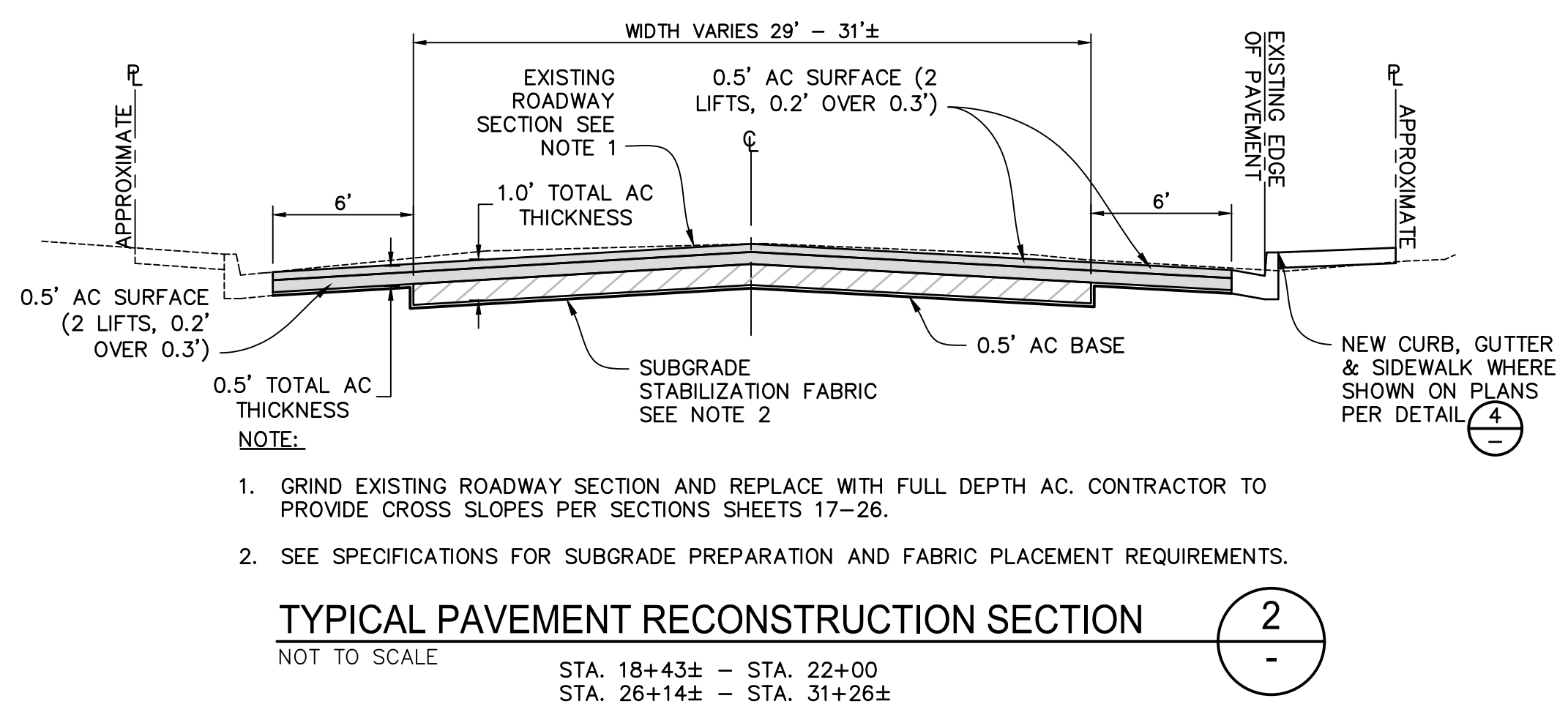
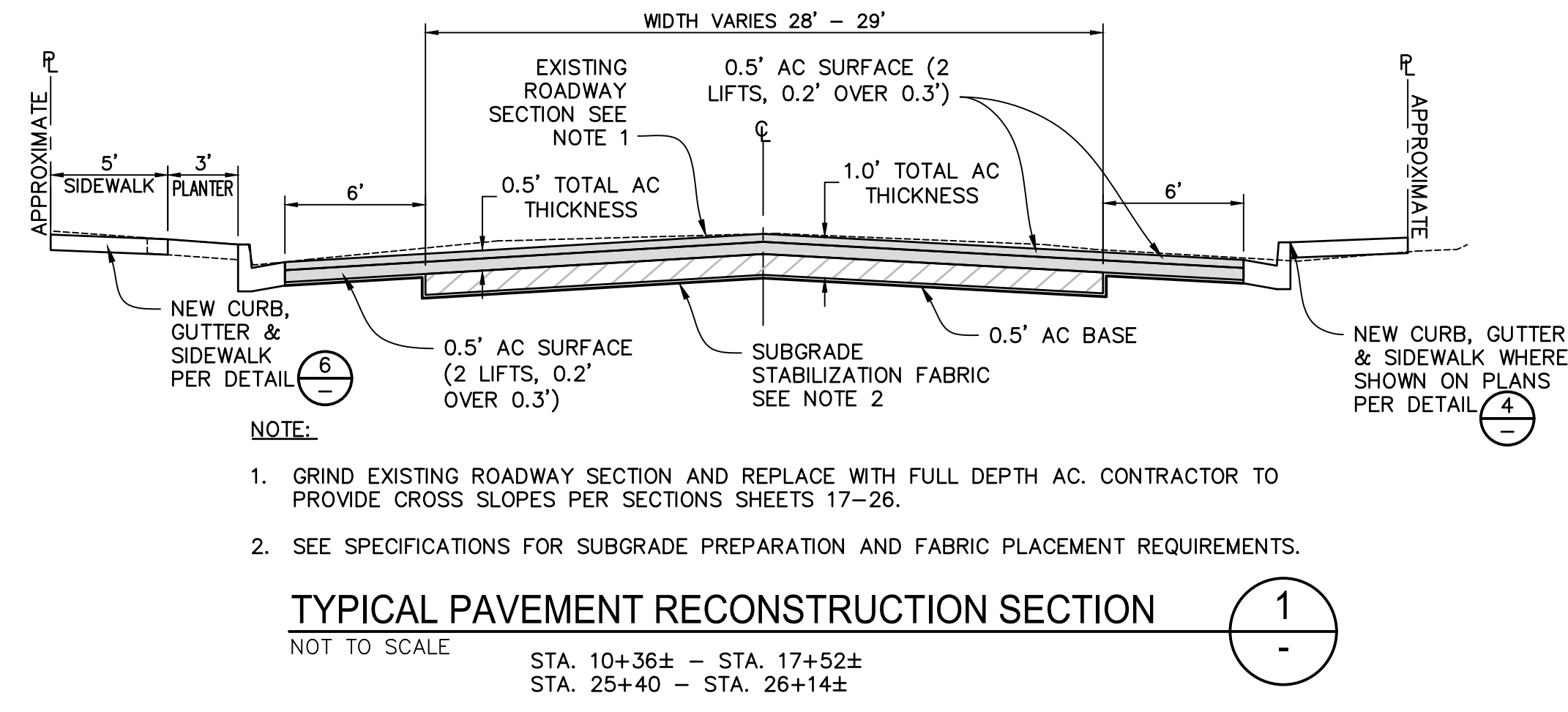






FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

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PREPARED UNDER THE DIRECTION OF  
 HEIDI E. UTTERBACK 4/23/2020  
 HEIDI E. UTTERBACK, RCE 53723 DATE  
 DESIGNED BY WJK  
 DRAWN BY WJK  
 REVIEWED BY HEU

**Coastland Civil Engineering, Inc.**  
 1400 Neotomas Avenue, Santa Rosa, CA 95405  
 707.571.8037 Fax

CALIFORNIA  
 CLARA AVENUE RECONSTRUCTION PROJECT  
 SPECIFICATION NO. 20-08  
 CITY OF UKIAH  
**DETAILS**

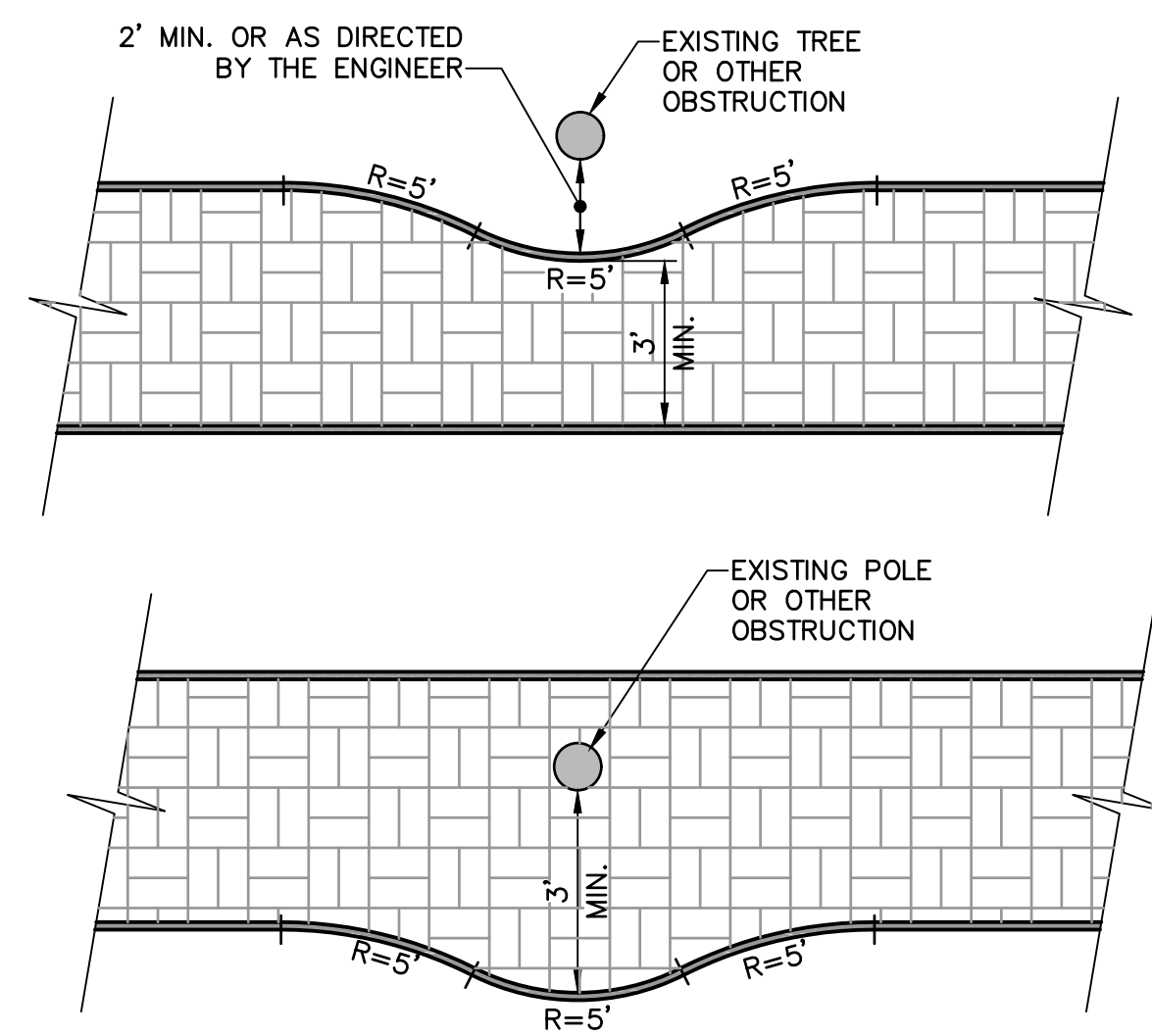
PROJECT NUMBER  
 29-4352  
 DRAWING DATE  
 APRIL 2020  
 SHEET NUMBER  
**16 OF 31**

CLARA AVENUE RECONSTRUCTION PROJECT



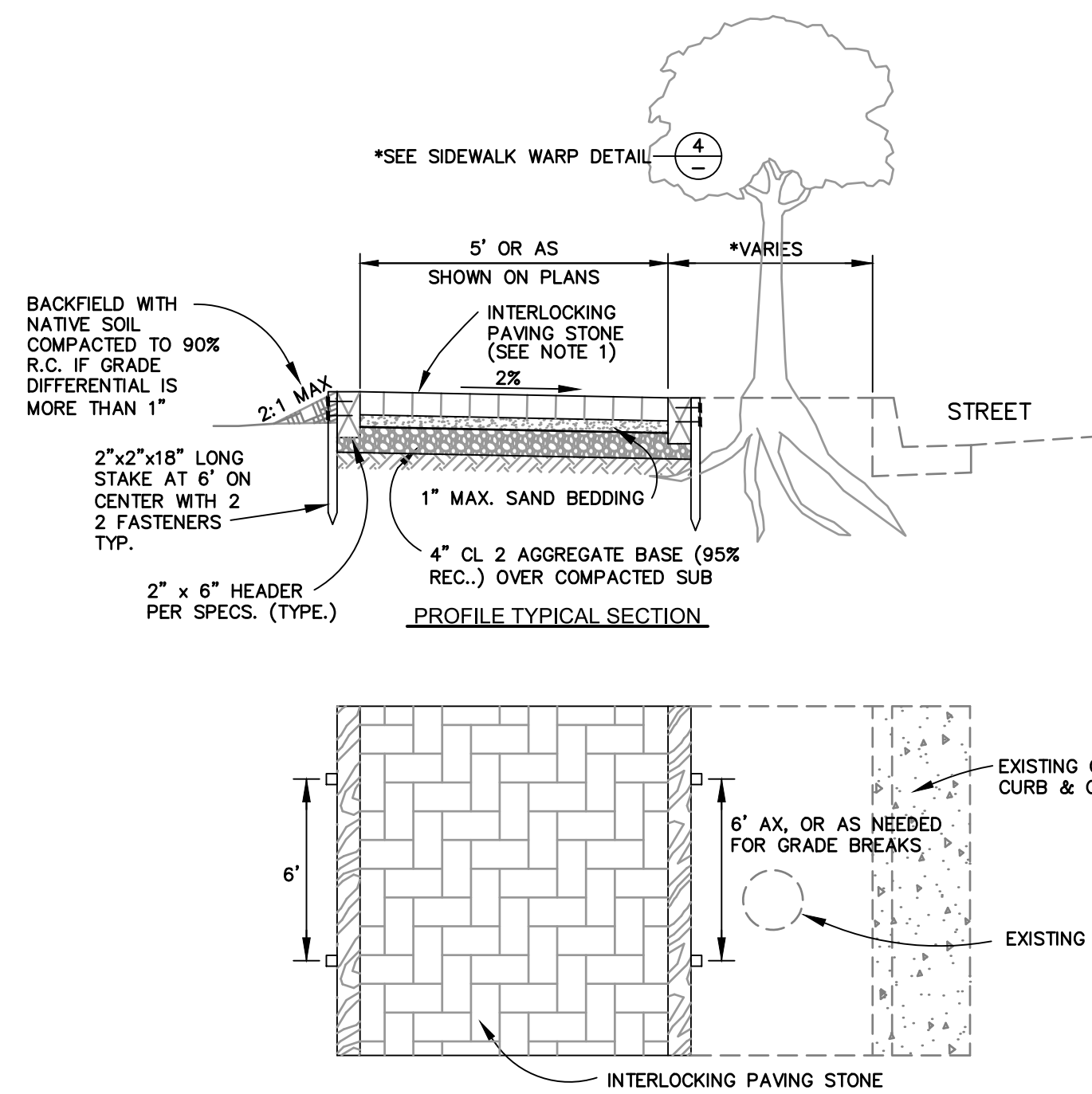
FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

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**SIDEWALK WARP DETAIL**  
 NOT TO SCALE

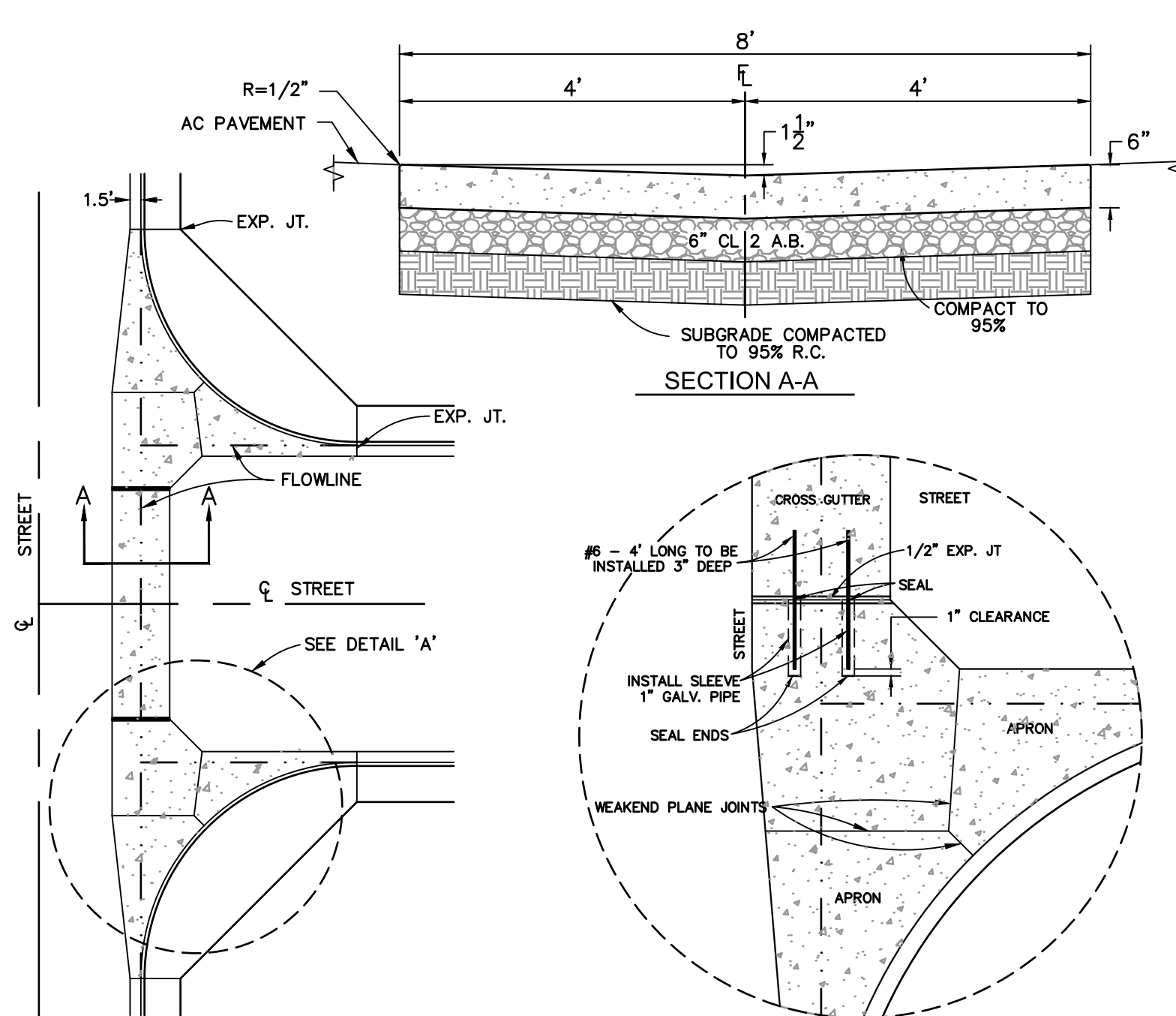
1



- NOTES:**
- INTERLOCKING PAVING STONES SHALL CONFORM TO OLSEN 60mm "HOLLAND STONE" IN A HERRINGBONE PATTERN WITH COLORING TO BE NATURAL GRAY.
  - WHEN NEW REDWOOD HEADER IS PLACED ADJACENT TO PAVING STONES, THE RELIEF ON THE EDGE SHALL BE AS SMALL AS POSSIBLE (1/4 INCH) TO ALLOW CLOSE FIT.

**PAVING STONE DETAIL**  
 NOT TO SCALE

2

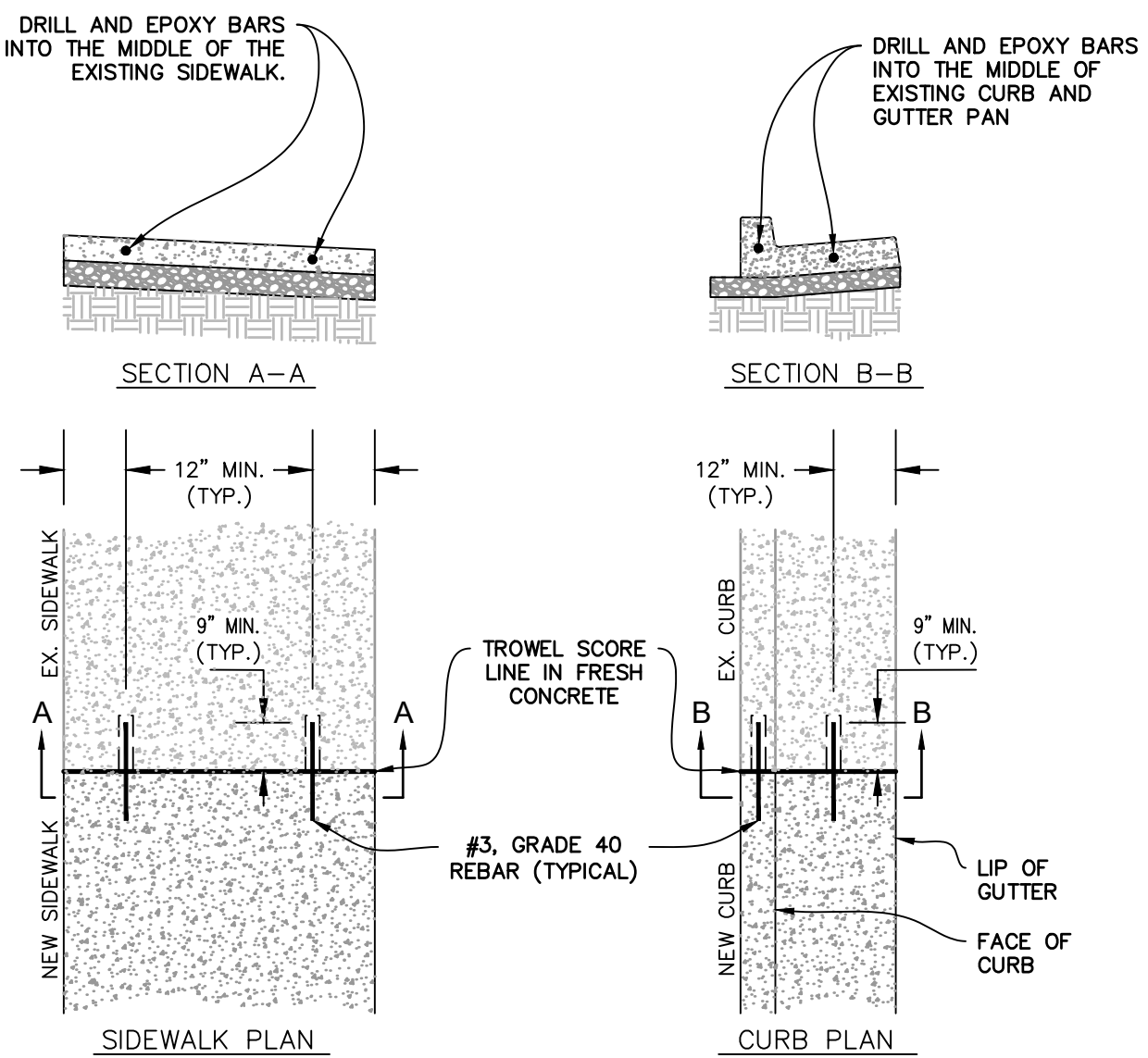


**TYP. CROSS-GUTTER PLAN**  
**DETAIL "A"**  
 TYPICAL BOTH SIDES

- NOTE:**  
 ALL CONCRETE TO BE CLASS "A" (6 SACK/CU. YARD)
- LEGEND**
- EXP. JOINT 1/2" EXPANSION JOINT
  - AREA OF APRON & CROSS GUTTER

**STANDARD P.C.C. CROSS GUTTER**  
 NOT TO SCALE

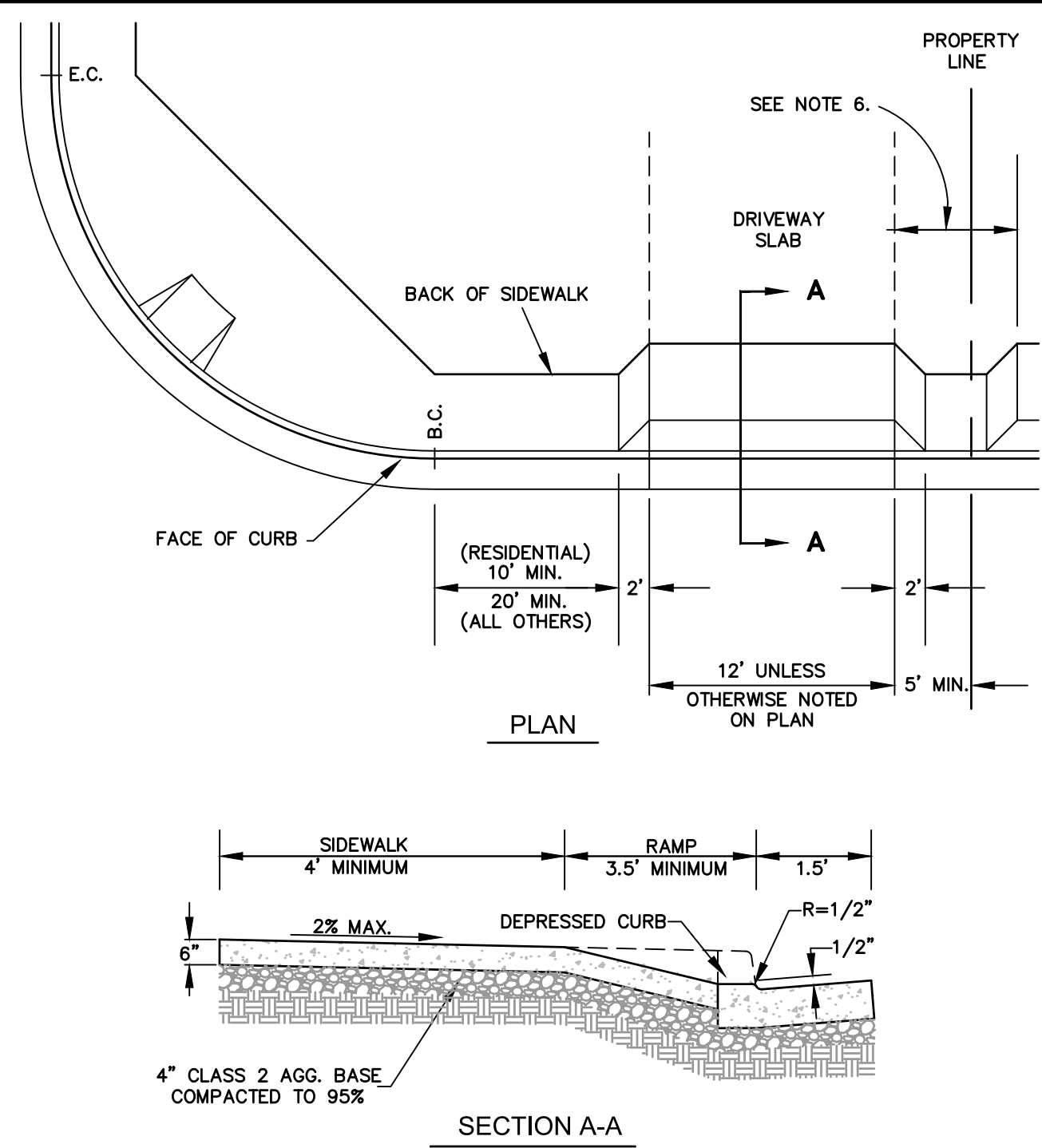
3



- NOTES:**
- ALL SOFT OR SPONGY SUB-GRADE MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL AS REQUIRED BY THE CITY ENGINEER.
  - REINFORCING BARS SHALL BE MINIMUM GRADE 40 AND SHALL CONFORM TO SECTION 52, REINFORCEMENT OF THE CALTRANS STANDARD SPECIFICATIONS.
  - EPOXY USED FOR BONDING REINFORCING BARS TO EXISTING CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 95, EPOXY AND SECTION 95-2.03, EPOXY RESIN ADHESIVE FOR BONDING NEW CONCRETE TO OLD CONCRETE OF THE CALTRANS STANDARD SPECIFICATIONS.
  - SIDEWALK SHALL BE SAWCUT AND REMOVED TO THE NEAREST CONTROL JOINT (SCORE, EXPANSION OR WEAKENED PLANE JOINT). CURB AND GUTTER SHALL BE SAWCUT AND REMOVED TO THE NEAREST CONTROL JOINT WHEN PRACTICAL AS DIRECTED BY THE CITY INSPECTOR.

**SIDEWALK, CURB & GUTTER DOWEL DETAIL**  
 NOT TO SCALE

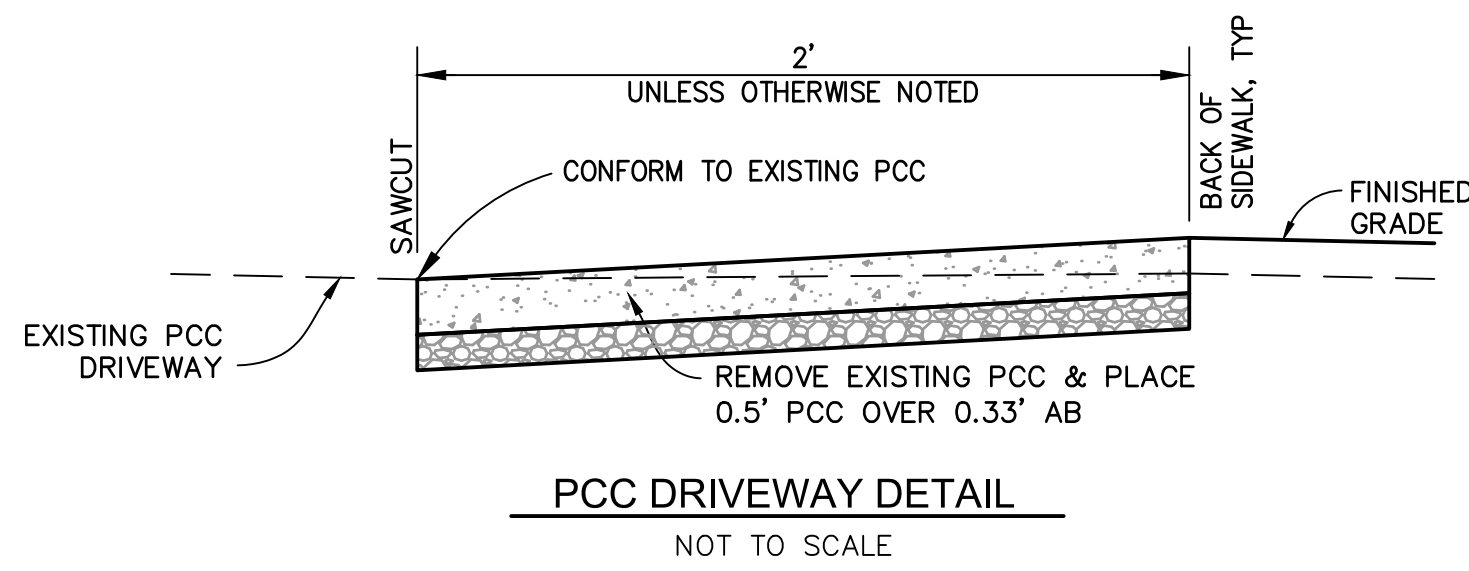
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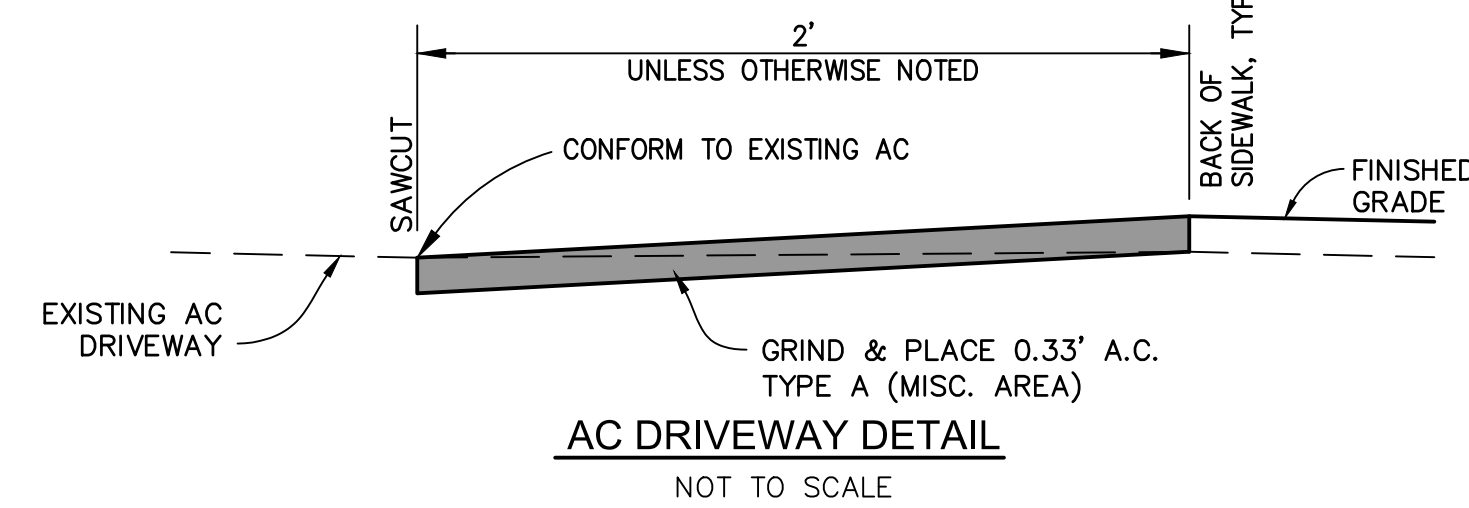
- NOTES:**
- WEAKENED PLANE JOINTS SHALL BE INSTALLED AT THE CENTER OF ALL DRIVEWAYS OVER 20' WIDE.
  - MAXIMUM SIDEWALK CROSS SLOPE (1/4" PER FOOT).
  - WIDEN OR MEANDER SIDEWALK AT OBSTRUCTIONS (INCLUDING DRIVEWAYS) TO MAINTAIN 4' MIN. CLEARANCE.
  - ALL CONCRETE SHALL BE CLASS "A" CONTAINING NOT LESS THAN 6 SACKS OF CEMENT PER CUBIC YARD.
  - WELDED WIRE FABRIC (4"x4", 10/10) SHALL BE PLACED THROUGHOUT COMMERCIAL AND INDUSTRIAL DRIVEWAYS WITHIN THE STREET RIGHT OF WAY.
  - IF DISTANCE BETWEEN DRIVEWAYS IS LESS THAN 10', OMIT CURB ISLAND.

**DRIVEWAY**  
 NOT TO SCALE

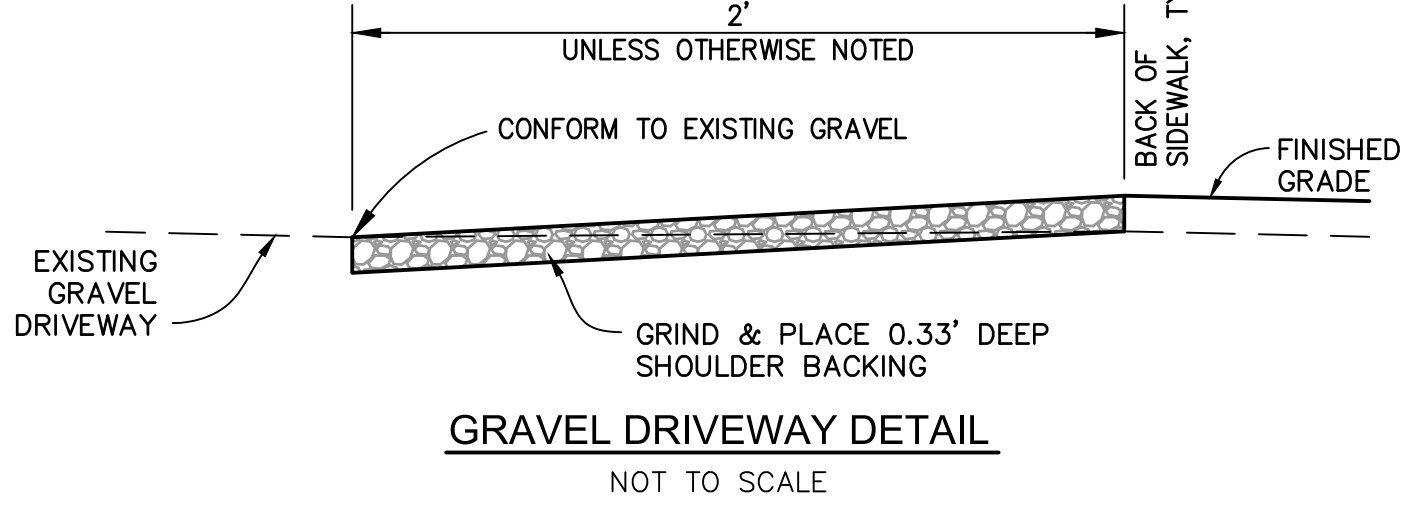
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**PCC DRIVEWAY DETAIL**  
 NOT TO SCALE



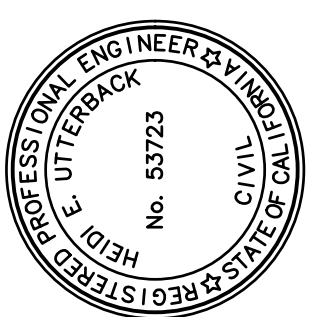
**AC DRIVEWAY DETAIL**  
 NOT TO SCALE



**GRAVEL DRIVEWAY DETAIL**  
 NOT TO SCALE

**DRIVEWAY CONFORM DETAIL**  
 NOT TO SCALE

6



PREPARED UNDER THE DIRECTION OF  
 Heidi E. Utterback 4/23/2020  
 HEIDI E. UTTERBACK, RCE 53723 DATE  
 DESIGNED BY WJK  
 DRAWN BY WJK  
 REVIEWED BY HEU

**Coastland Civil Engineering, Inc.**  
 1400 Neotomas Avenue, Santa Rosa, CA 95405  
 707.571.8037 Fax 707.571.8005

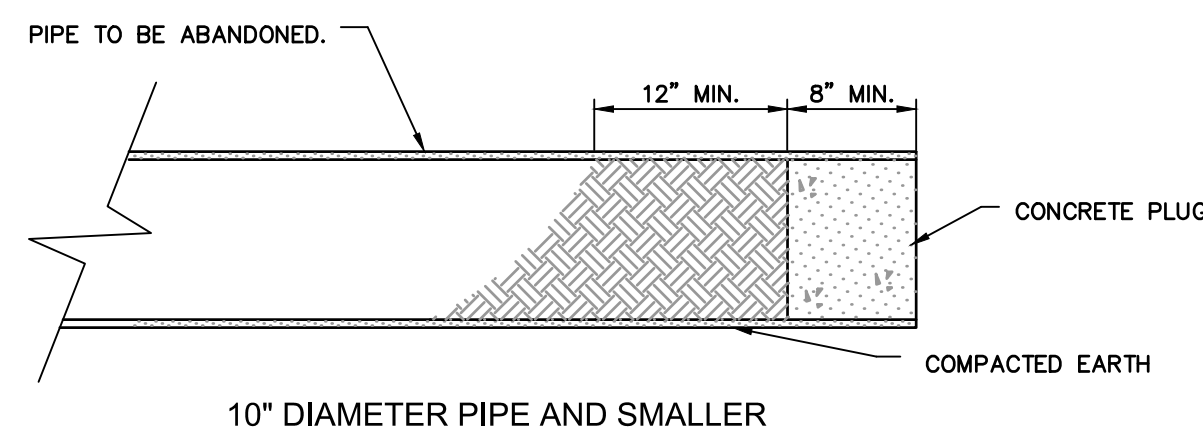
CALIFORNIA  
 CLARA AVENUE RECONSTRUCTION PROJECT  
 SPECIFICATION NO. 20-08  
 CITY OF UKIAH  
**DETAILS**

PROJECT NUMBER  
 29-4352  
 DRAWING DATE  
 APRIL 2020  
 SHEET NUMBER  
 17 OF 31

CLARA AVENUE RECONSTRUCTION PROJECT

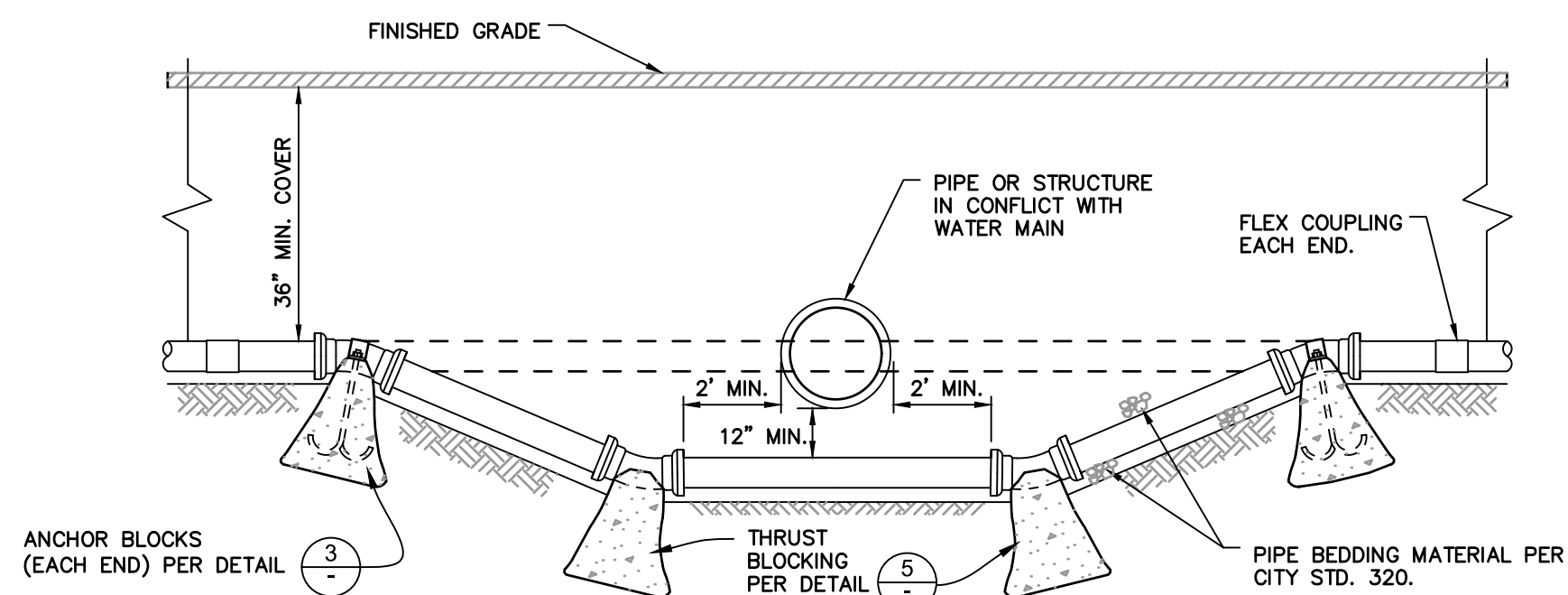
FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

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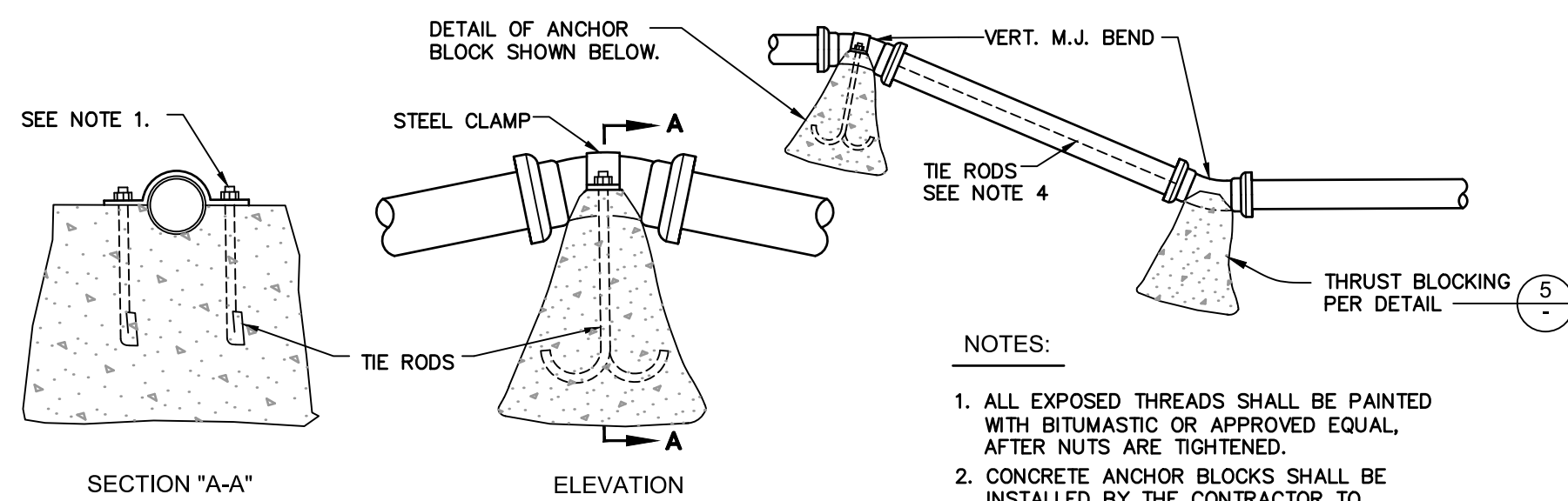
NOTES:  
1. PIPE PLUGS SHALL BE INSTALLED TO THE SATISFACTION OF THE CITY ENGINEER.

**ABANDONED PIPE PLUG DETAIL 1**  
NOT TO SCALE



NOTES:  
1. ALL PIPE & FITTINGS SHALL BE DUCTILE IRON & SHALL BE WRAPPED IN POLYETHYLENE PER CITY STD. CONSTRUCTION SPECIFICATIONS.  
2. ONLY MECHANICAL JOINT FITTINGS WITH RETAINER GLANDS MAY BE USED.  
3. ALL BENDS SHALL BE 45° OR 22-1/2° FITTINGS.

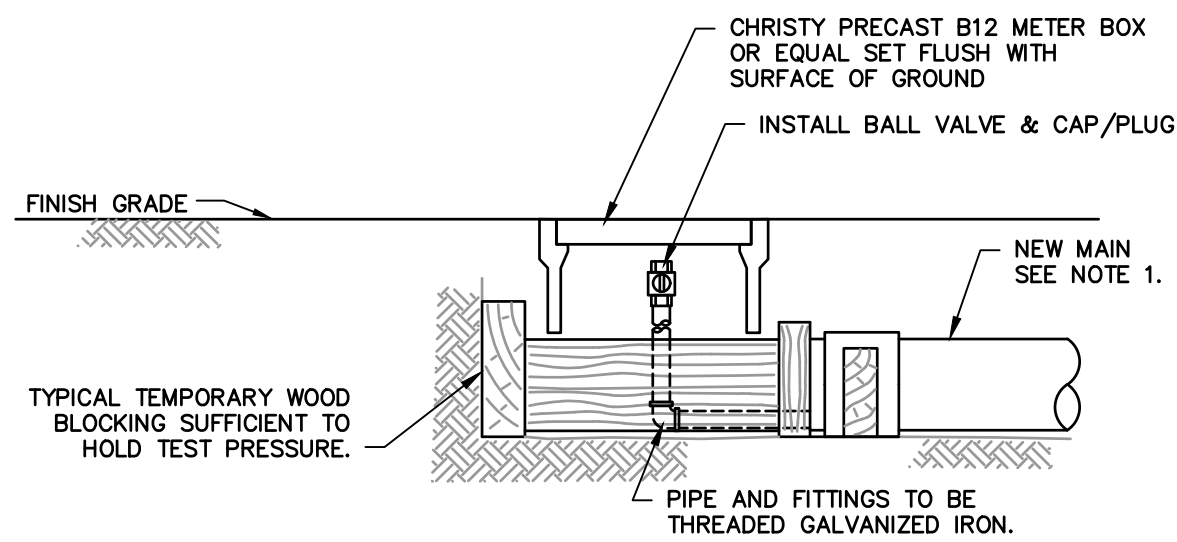
**WATER MAIN LOWERING DETAIL 2**  
NOT TO SCALE



NOTES:  
1. ALL EXPOSED THREADS SHALL BE PAINTED WITH BITUMASTIC OR APPROVED EQUAL, AFTER NUTS ARE TIGHTENED.  
2. CONCRETE ANCHOR BLOCKS SHALL BE INSTALLED BY THE CONTRACTOR TO WITHSTAND A THRUST PRODUCED BY THE TEST PRESSURE PLUS 50 P.S.I. MINIMUM DIMENSIONS FOR TIE RODS AND CLAMPS ARE LISTED IN THE TABLE BELOW.  
3. USE MECHANICAL JOINT RETAINER GLANDS AT ALL FITTINGS.  
4. FOR PVC PIPE, TIE RODS (THREADED FULL LENGTH) BETWEEN FITTINGS (MIN. 2 REQ'D.) MAY BE USED IN LIEU OF RETAINING GLANDS.

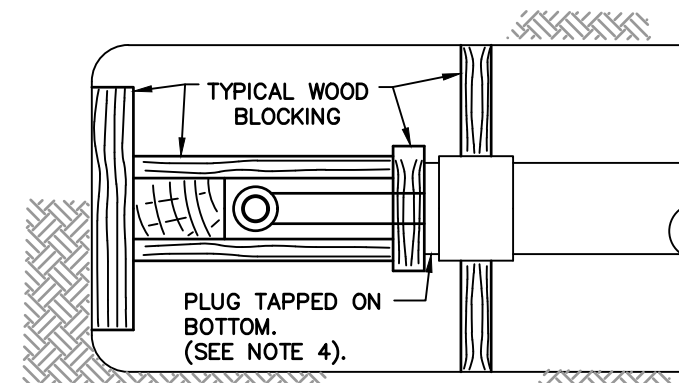
| PIPE SIZE | TIE RODS | STEEL CLAMPS  |
|-----------|----------|---------------|
| 6"        | 5/8"     | 3" X 1/4"     |
| 8"        | 3/4"     | 3-1/4" X 1/4" |
| 12"       | 1-1/4"   | 4" X 1/2"     |

**TYPICAL CONCRETE ANCHOR BLOCK FOR COMBINATION HORIZONTAL-VERTICAL BEND 3**  
NOT TO SCALE



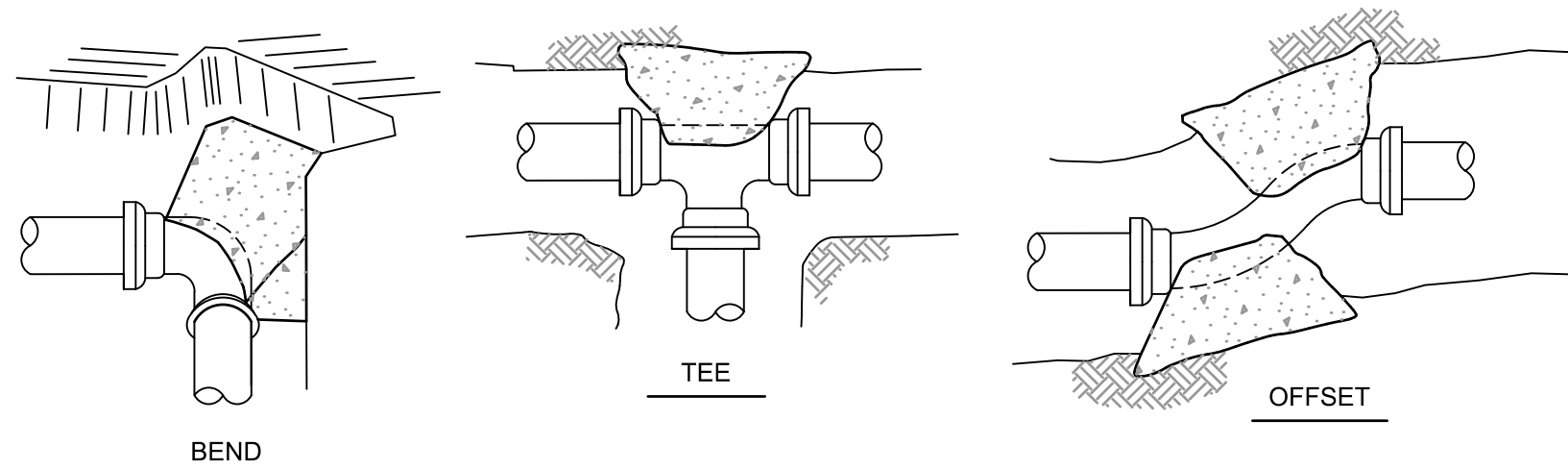
ELEVATION

NOTES:  
1. END OF NEW MAIN TO BE ON SAME LINE AND GRADE AS EXISTING WHERE FEASIBLE.  
2. WOOD BLOCKING TO BE FOR THRUST PRODUCED BY TEST PRESSURE PLUS 50 P.S.I.  
3. SAFE BEARING LOAD OF SOIL FOR HORIZONTAL THRUST SHALL NOT BE EXCEEDED.  
4. INSTALL 2" BLOWOFF. ("BLOWOFF" IS PIPE AND FITTINGS, UP TO AND INCLUDING VALVE.)  
5. THE CONTRACTOR SHALL MAKE FINAL TIE-INS UNDER THE INSPECTION OF A CITY REPRESENTATIVE.



PLAN

**TEMPORARY BLOWOFF 4**  
NOT TO SCALE



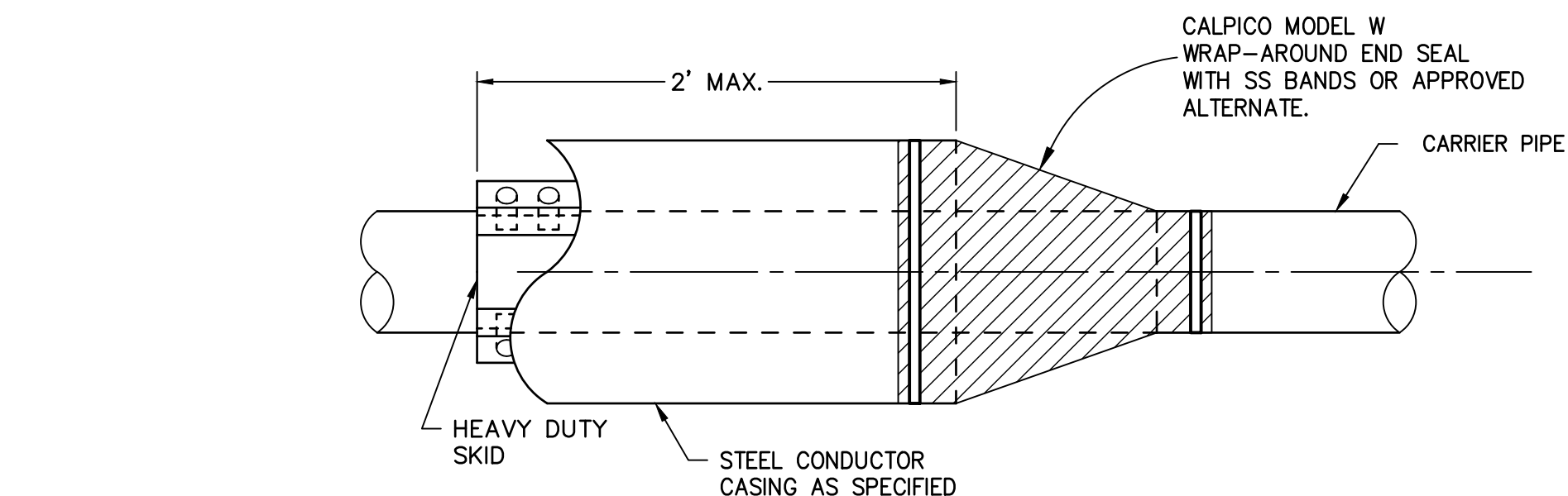
TYPICAL CONC. BLOCKING SHOWN IN PERSPECTIVE

NOTES:  
1. SAFE BEARING LOAD OF SOIL FOR HORIZONTAL THRUST SHALL NOT BE EXCEEDED.  
2. CONCRETE BLOCKING, CAST-IN-PLACE, TO EXTEND FROM BELLS OF FITTINGS TO UNDISTURBED SOIL AND ENTIRE BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.  
3. IN USING THE THRUST BLOCKING TABLE BELOW, ASSUME 2000 P.S.F. BEARING CAPACITY UNLESS OTHERWISE SHOWN ON THE PLANS. THE DESIGN ENGINEER SHALL SPECIFY THRUST BLOCKING REQUIREMENTS FOR ALL OTHER SOIL BEARING CONDITIONS.  
4. FOR PLUGGED LEG(S) OF TEE OR CROSS, USE HARNESS TYPE BLOCKING AS SHOWN ON STD. 516 AND CONCRETE BLOCKING INDICATED IN TABLE BELOW.

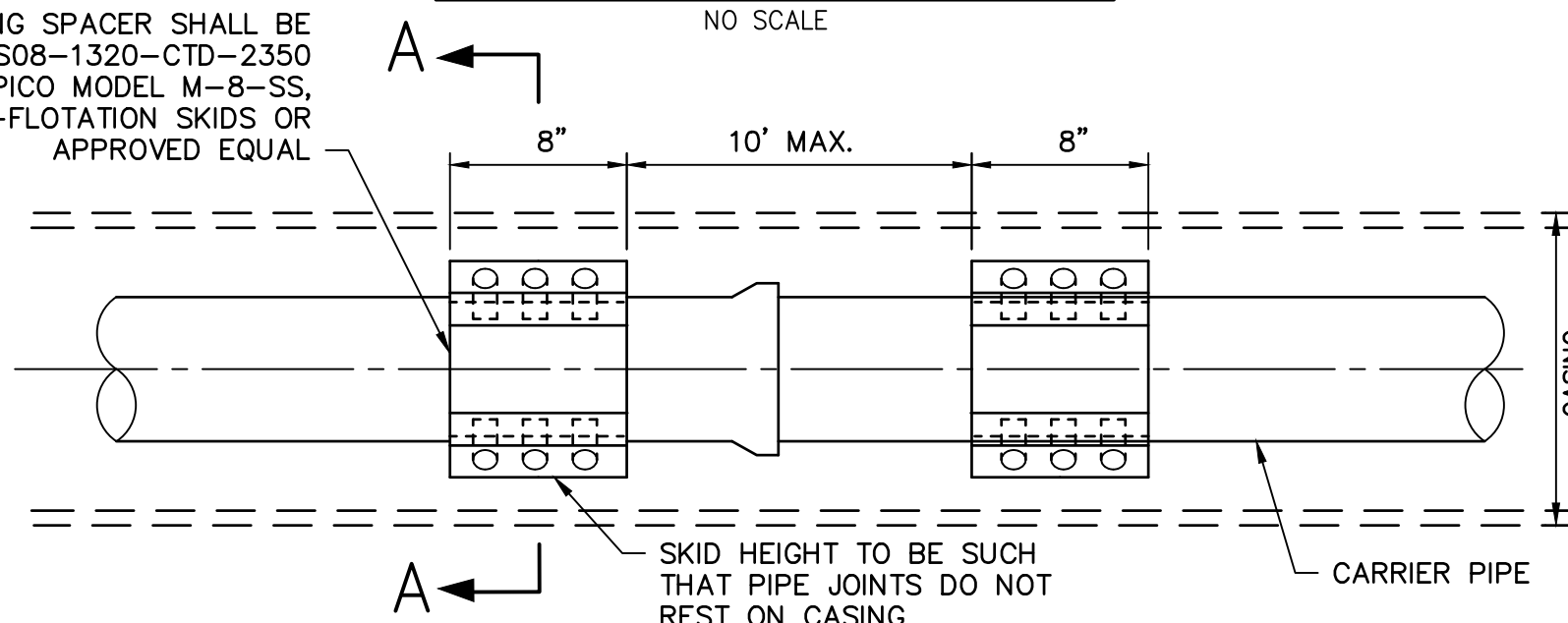
| PIPE SIZE | SOIL BEARING CAPACITY | HARNESS BLOCKS | TEES & DEAD ENDS | 90° BENDS | 45° BENDS | 22-1/2° BENDS |
|-----------|-----------------------|----------------|------------------|-----------|-----------|---------------|
| 6"        | 1000                  | 4              | 4                | 6         | 3         | 2             |
|           | 2000                  | 2              | 2                | 3         | 2         | 1             |
| 8"        | 1000                  | 7              | 7                | 10        | 5         | 3             |
|           | 2000                  | 4              | 4                | 5         | 3         | 2             |
| 12"       | 1000                  | 16             | 16               | 22        | 12        | 6             |
|           | 2000                  | 8              | 8                | 11        | 6         | 3             |

\* MULTIPLY NO. IN TABLE BY TEST PRESSURE & DIVIDE BY 100.

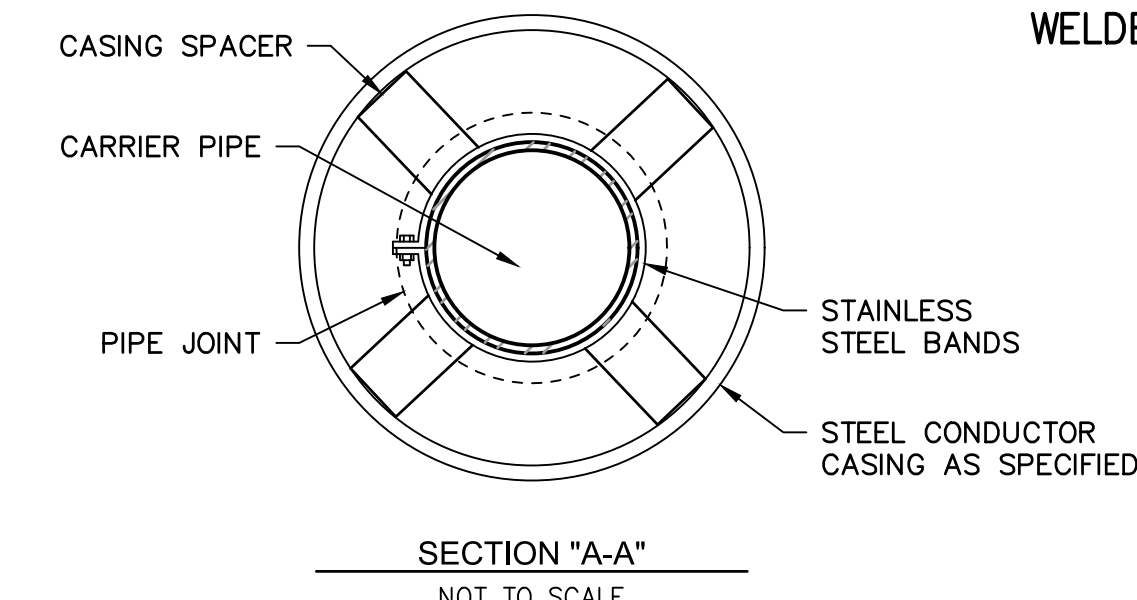
**CONCRETE THRUST BLOCK 5**  
NOT TO SCALE



TYPICAL DIRT STOP DETAIL



TYPICAL PIPE JOINT AND INSULATOR

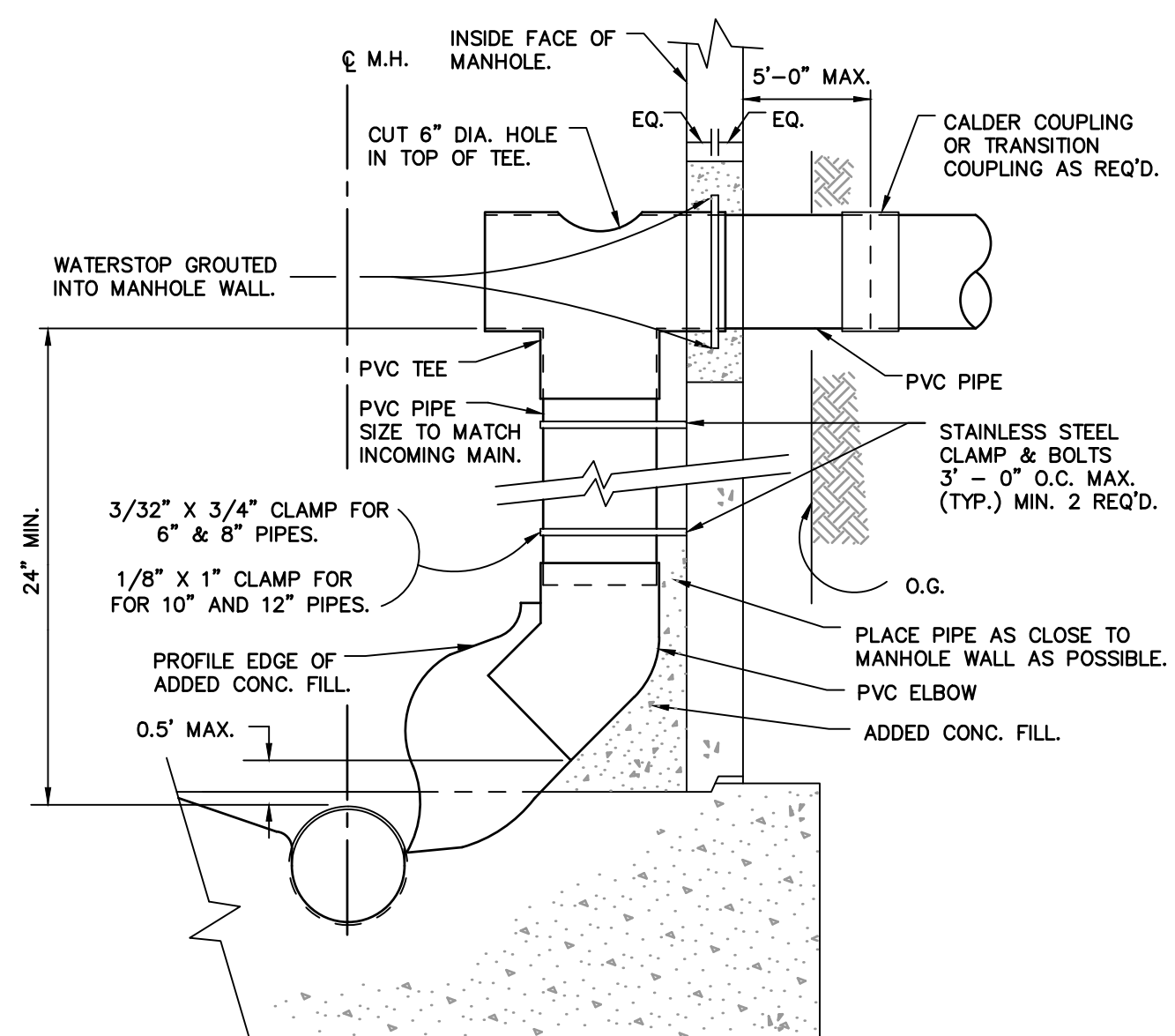


**UTILITY ENCASEMENT DETAIL 6**  
NOT TO SCALE

WELDED STEEL CASING REQUIREMENTS

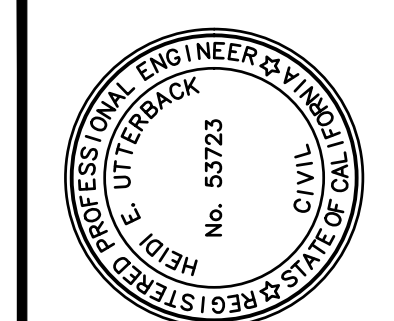
| PIPE SIZE              | 8"     |
|------------------------|--------|
| MINIMUM CASING SIZE    | 24"    |
| MINIMUM WALL THICKNESS | 0.375" |

NOTES:  
1. INSTALL PER MANUFACTURERS SPECIFICATIONS  
2. INSTALL SEAL AT BOTH ENDS.



NOTES:  
1. INSTALL WATERSTOP IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AS SHOWN.  
2. NEW MANHOLES CONSTRUCTED USING THIS STANDARD SHALL BE 60 INCHES IN DIAMETER, & INSTALLED IN CONFORMANCE WITH STD. 302.  
3. ENCLOSE ELBOW IN CONCRETE. FORM SMOOTH CHANNEL TO MANHOLE FLOWLINE.  
4. PVC PIPE AND FITTINGS TO BE SDR 35 OR SCH 40.

**INSIDE DROP INLET SANITARY SEWER MANHOLE 7**  
NOT TO SCALE



PREPARED UNDER THE DIRECTION OF  
HEIDI E. UTTERBACK 4/23/2020  
HEIDI E. UTTERBACK, RCE 53723 DATE  
DESIGNED BY WJK  
DRAWN BY WJK  
REVIEWED BY HEU

**Coastland Civil Engineering, Inc.**  
1400 Neotomas Avenue, Santa Rosa, CA 95405  
707.571.8003

CALIFORNIA

CLARA AVENUE RECONSTRUCTION PROJECT  
SPECIFICATION NO. 20-08

CITY OF UKIAH

PROJECT NUMBER  
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DRAWING DATE  
APRIL 2020

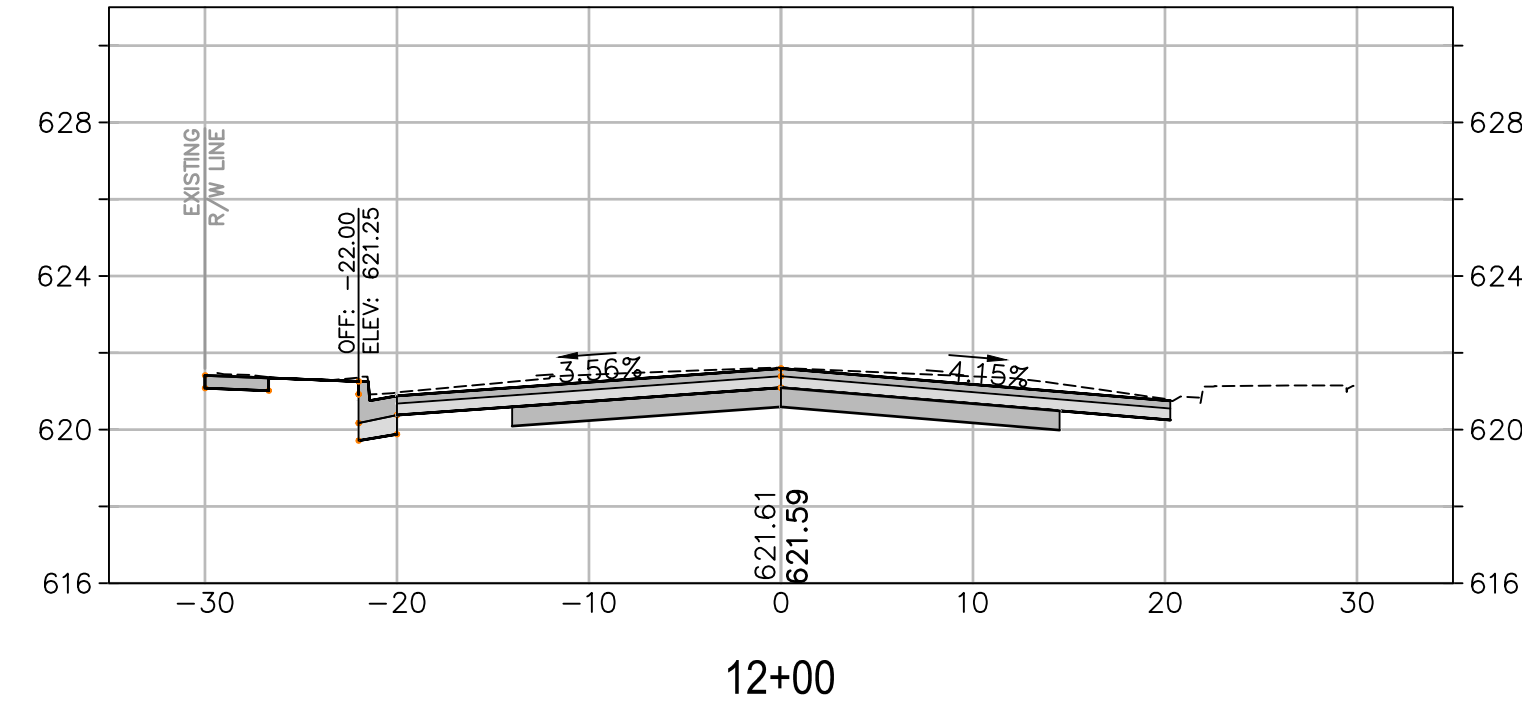
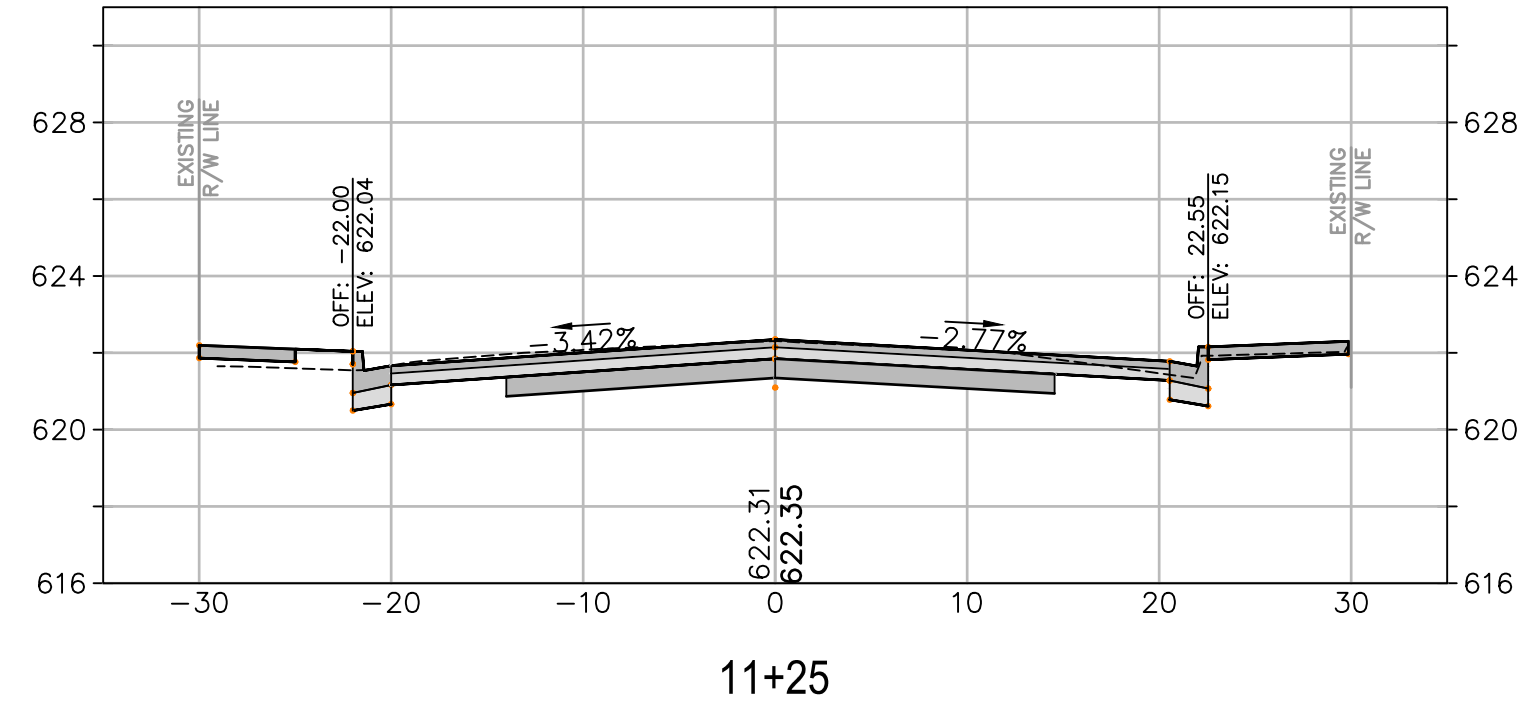
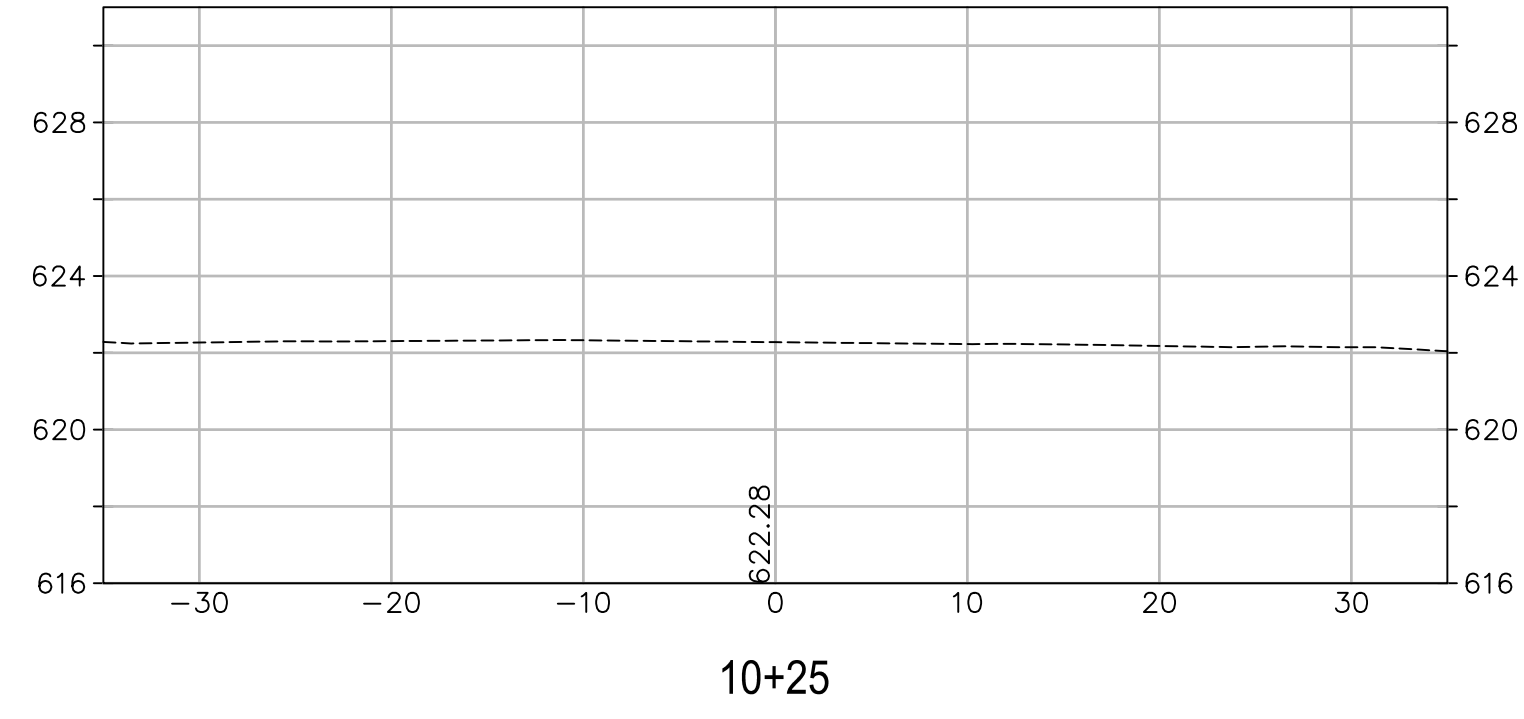
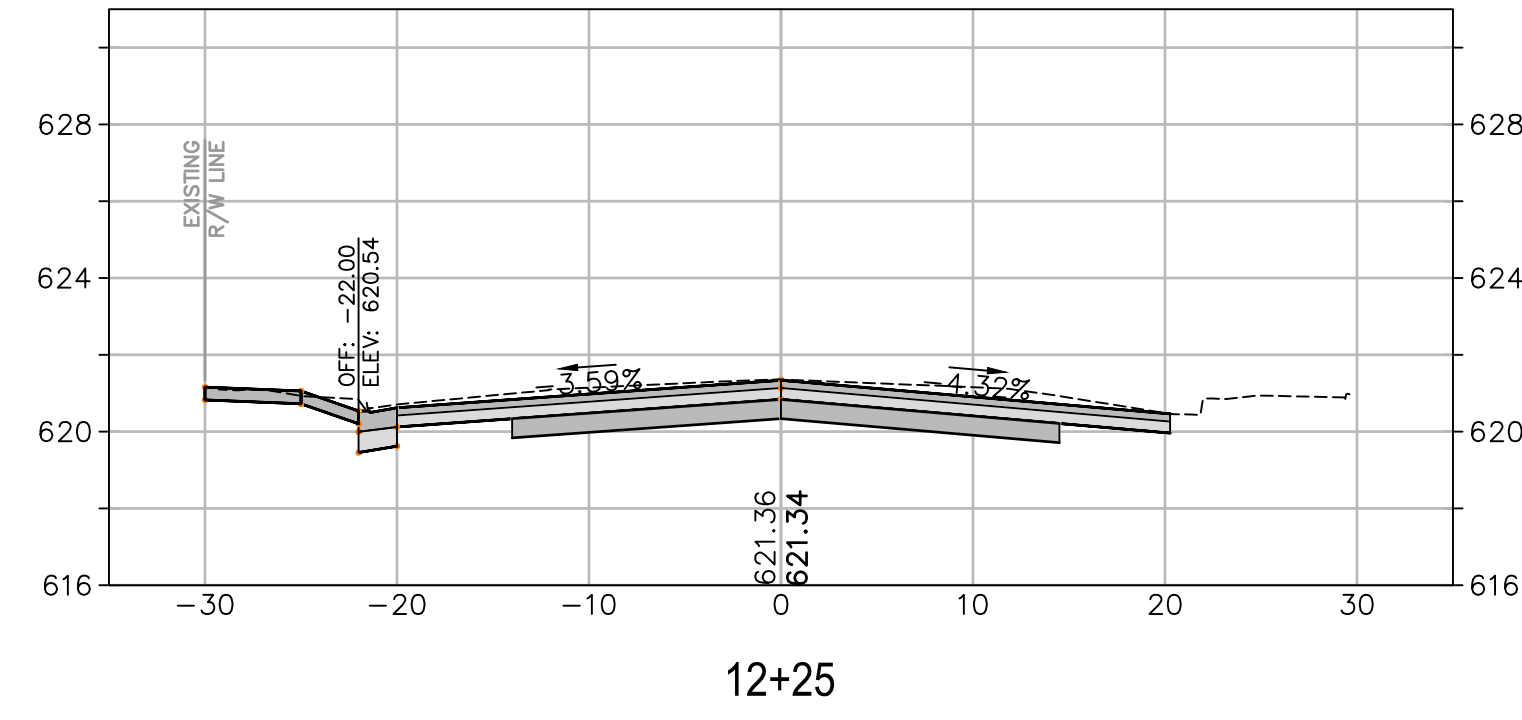
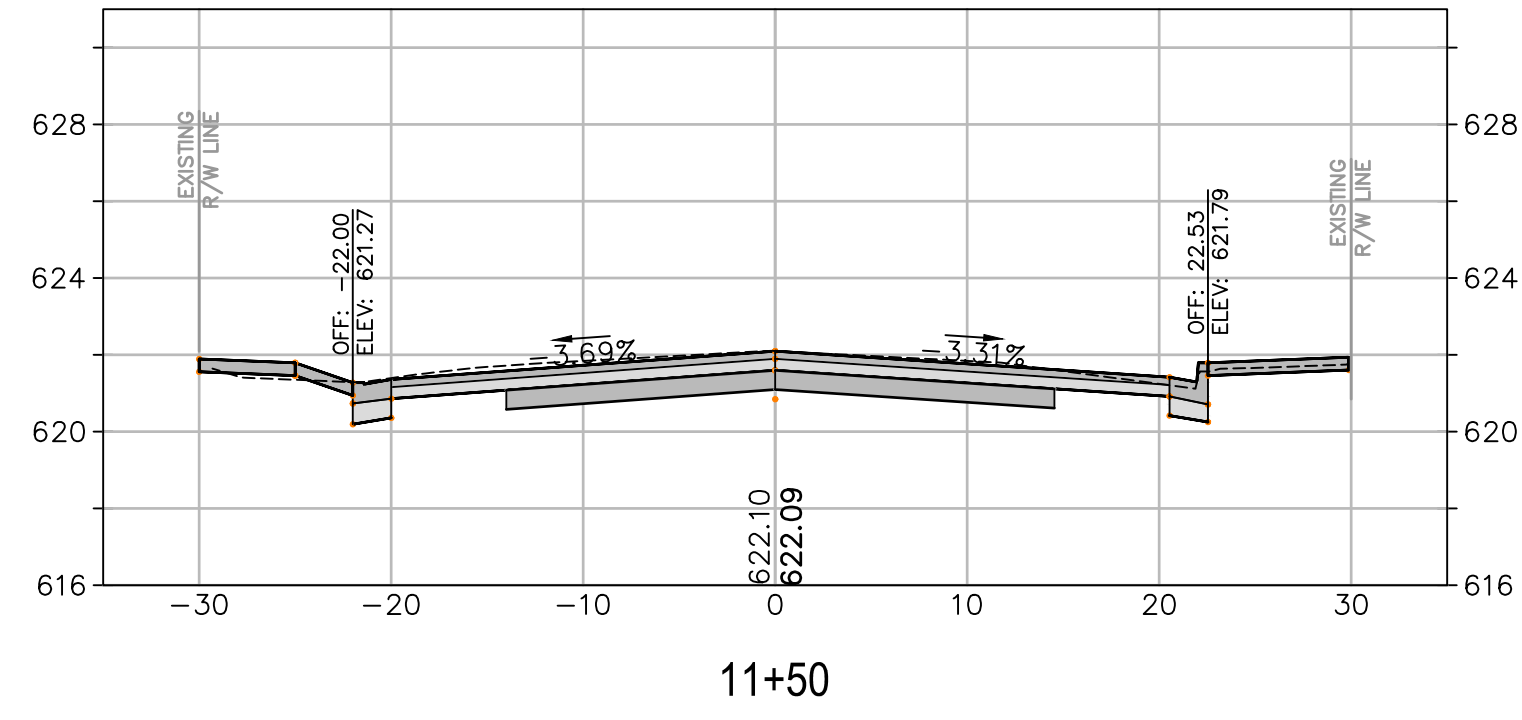
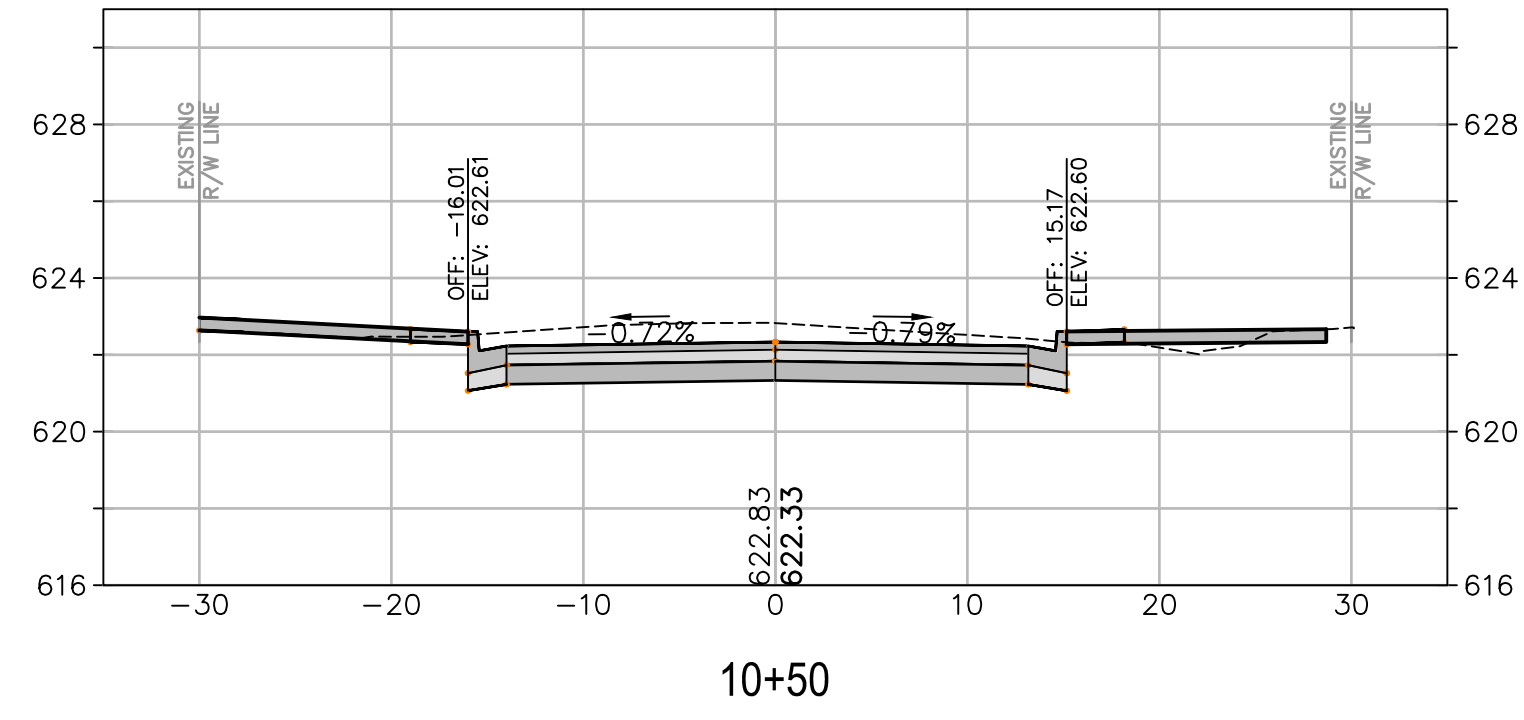
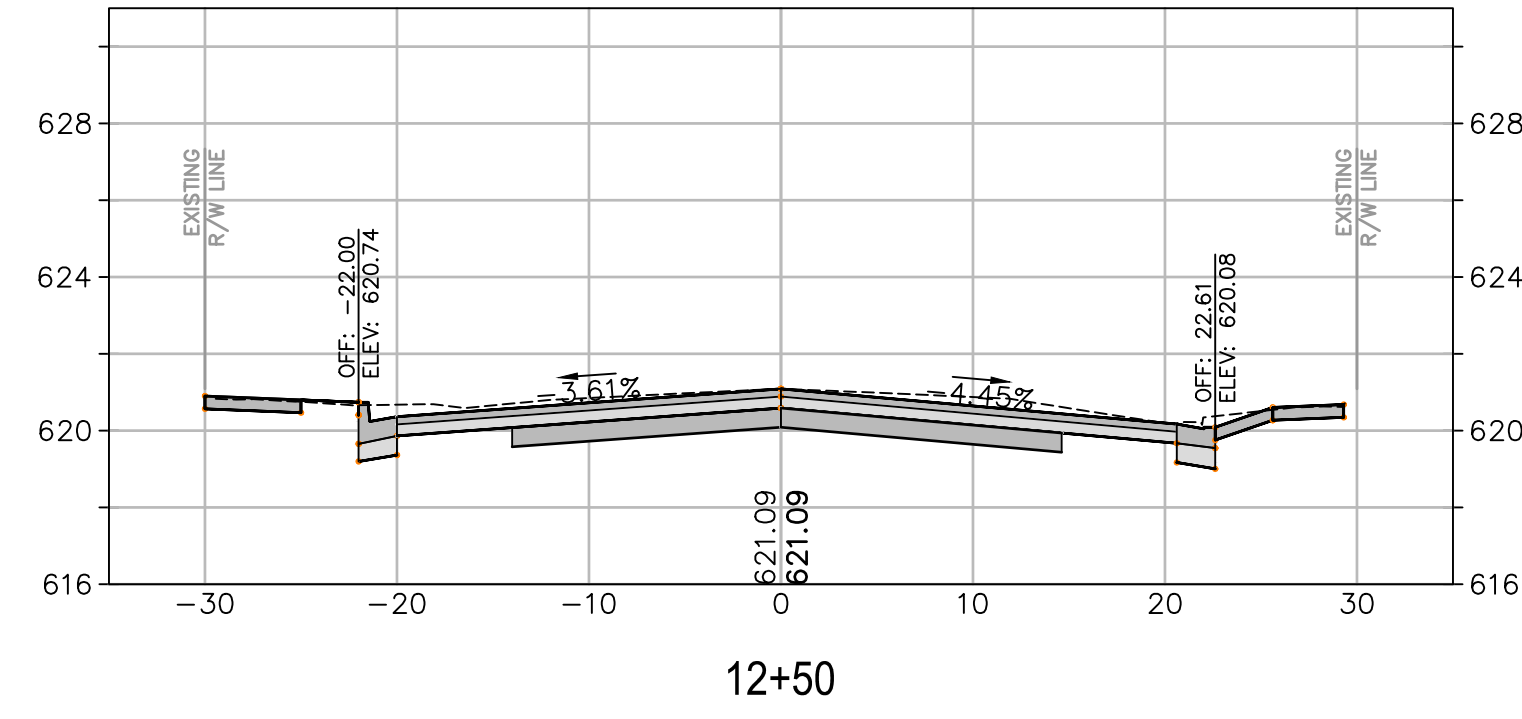
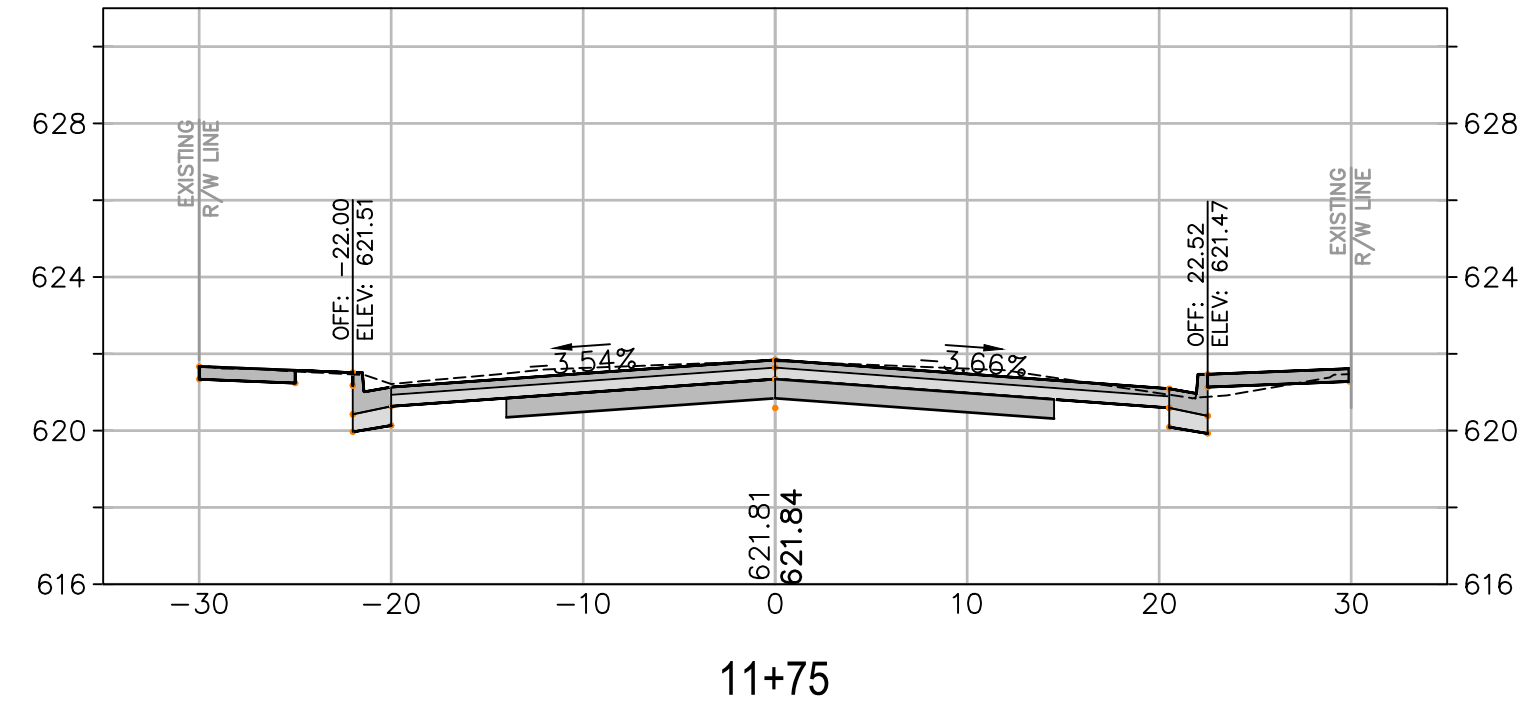
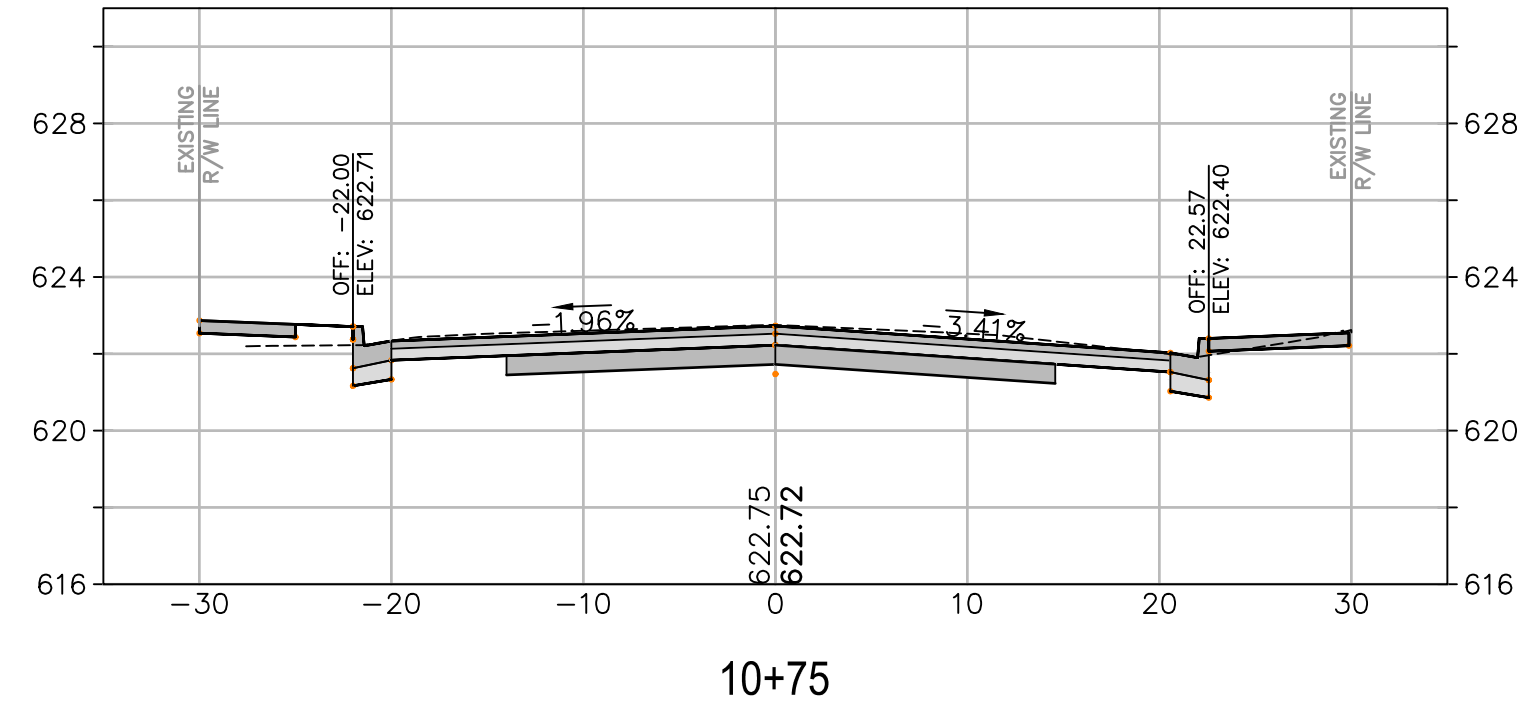
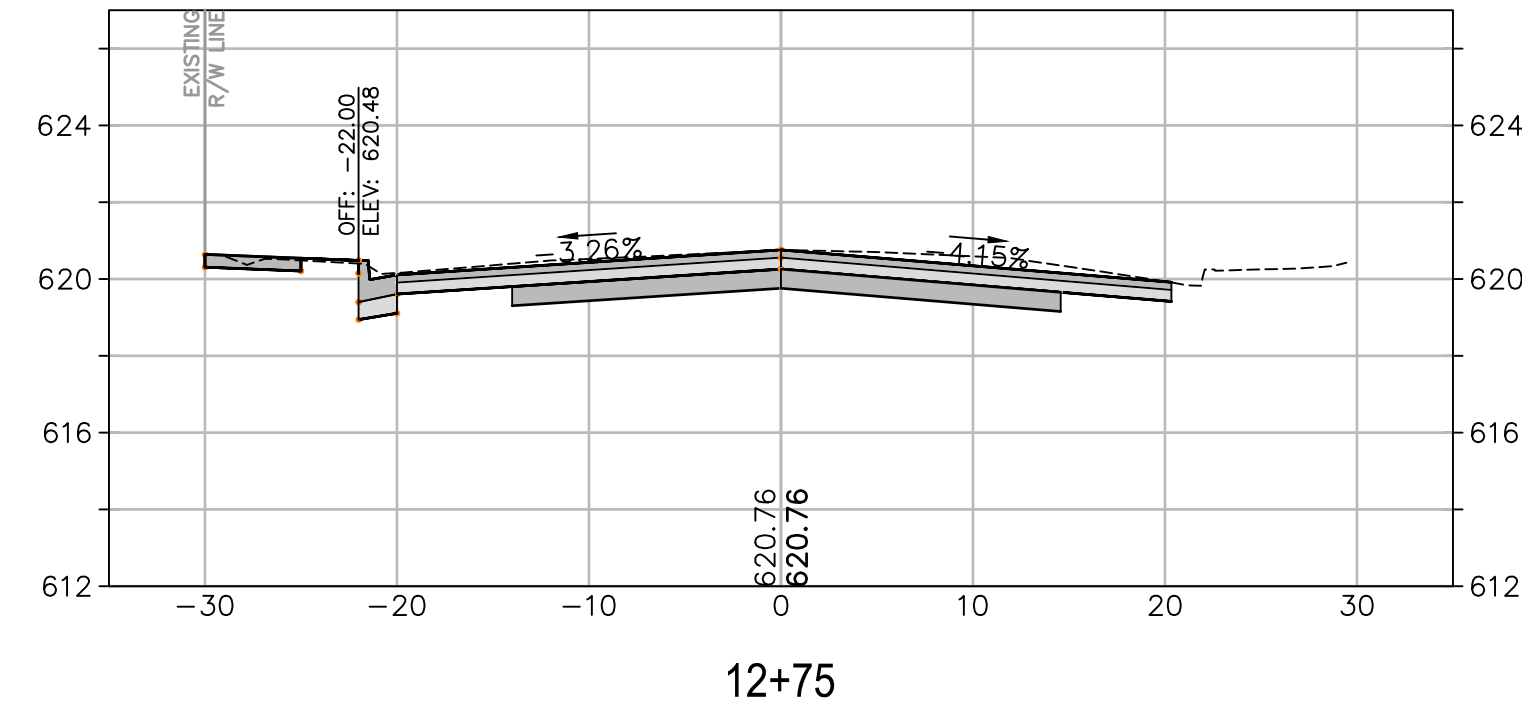
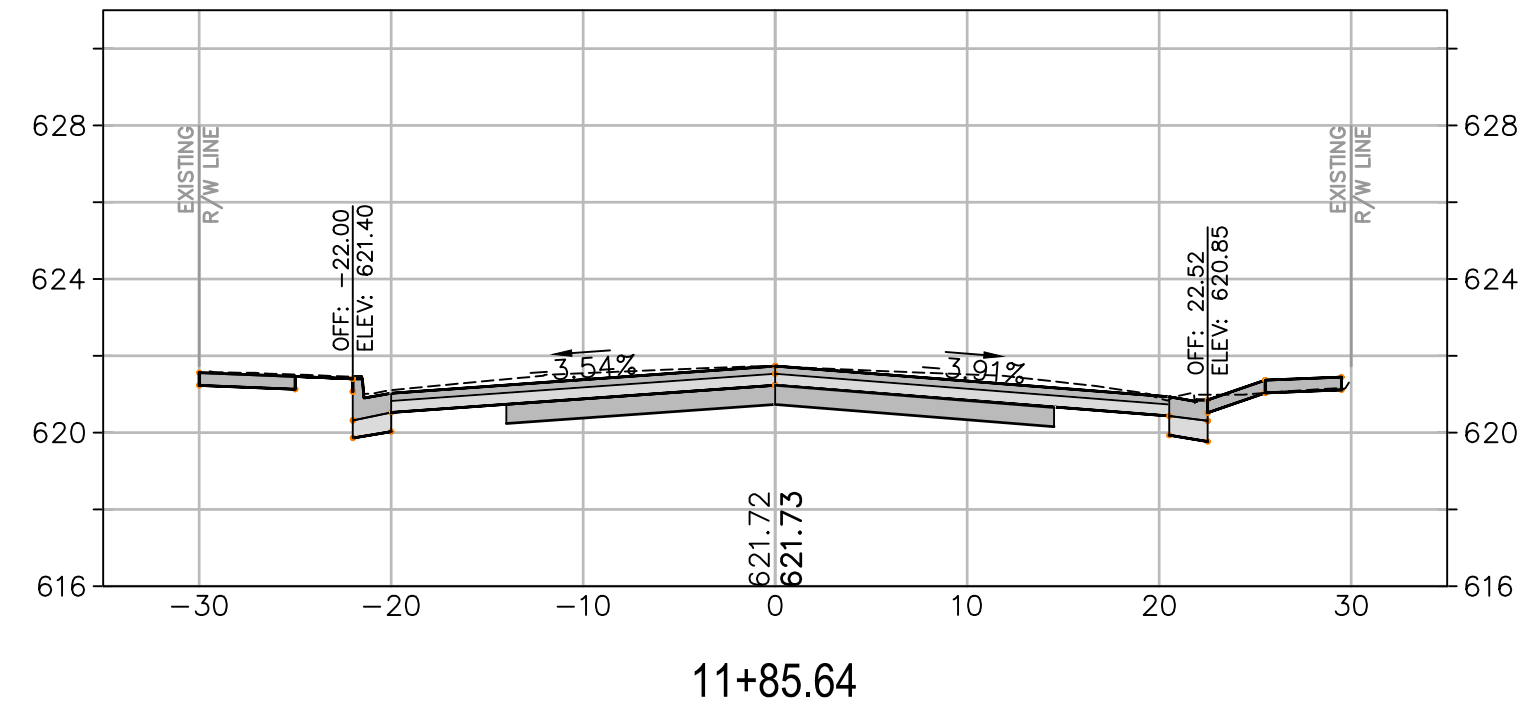
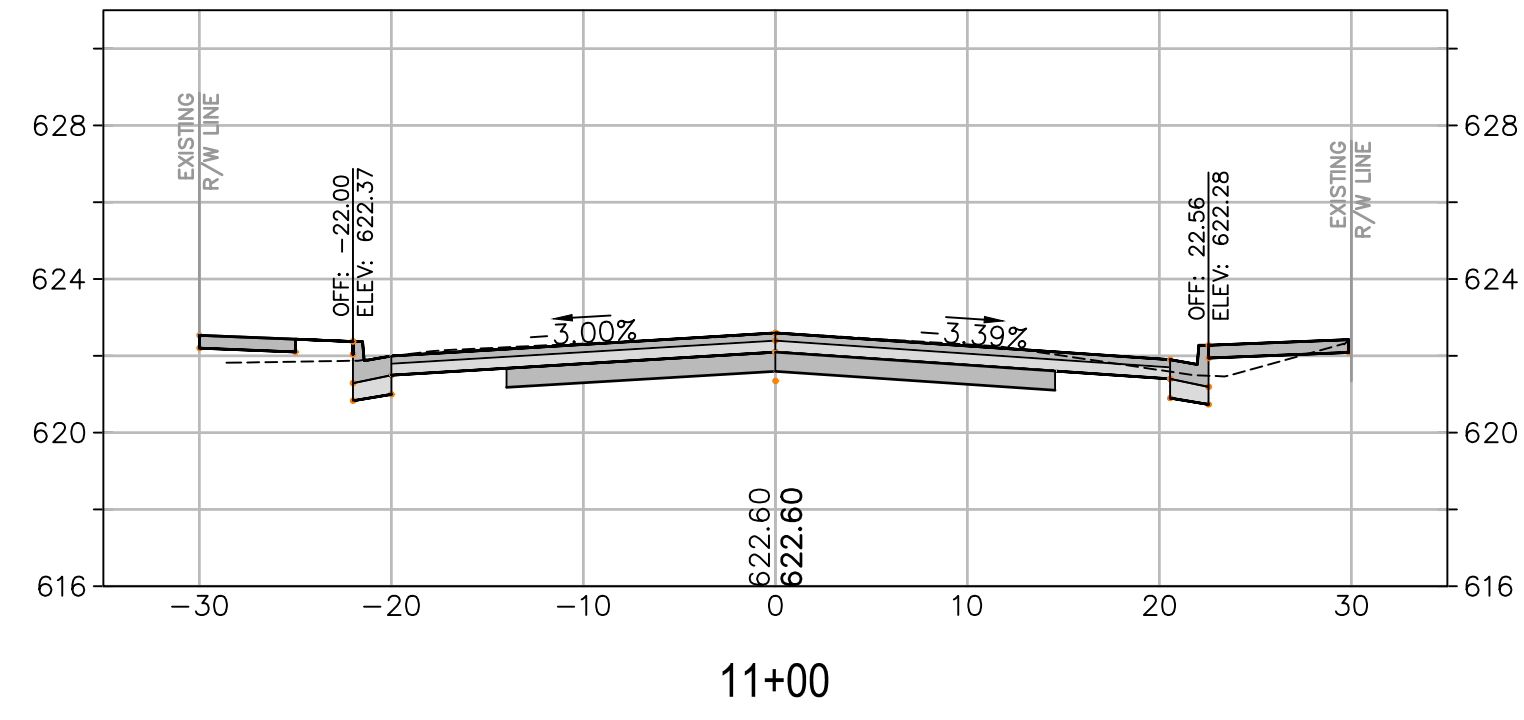
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DETAILS

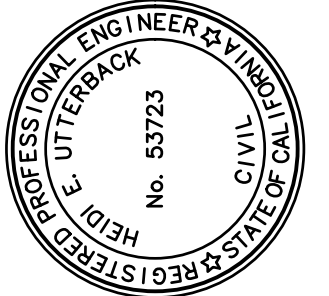
CLARA AVENUE RECONSTRUCTION PROJECT

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FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES



**CROSS SECTION SCALES**  
 HORIZ.: 1" = 10'  
 VERT.: 1" = 5'



PREPARED UNDER THE DIRECTION OF  
 Heidi E. Utterback 4/23/2020  
 HEIDI E. UTTERBACK, RCE 53723 DATE  
 DESIGNED BY WJK  
 DRAWN BY WJK  
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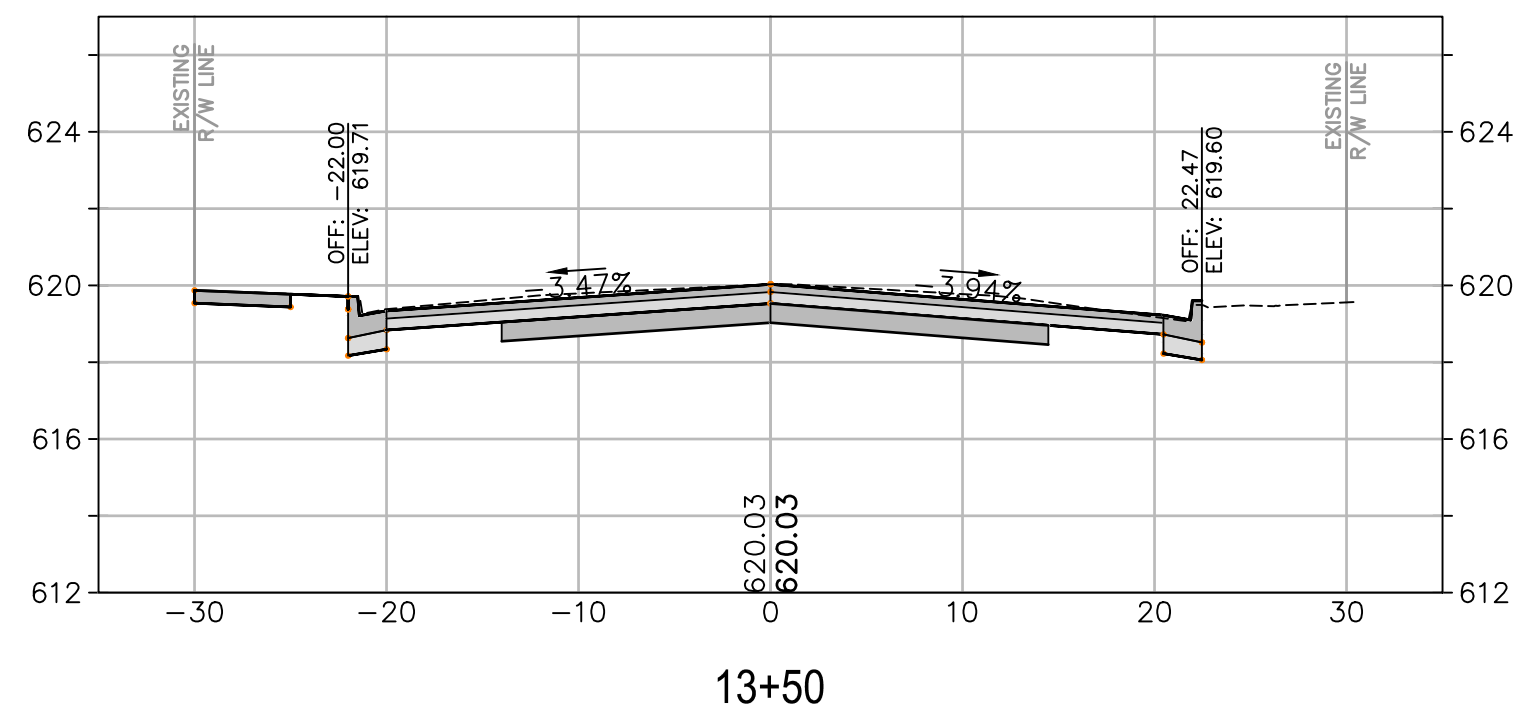
**Coastland Civil Engineering, Inc.**  
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 707.571.8037 Fax

CALIFORNIA  
 CLARA AVENUE RECONSTRUCTION PROJECT  
 SPECIFICATION NO. 20-08  
**CROSS SECTIONS**  
**STA. 10+25 TO STA. 12+75**  
 CITY OF UKIAH

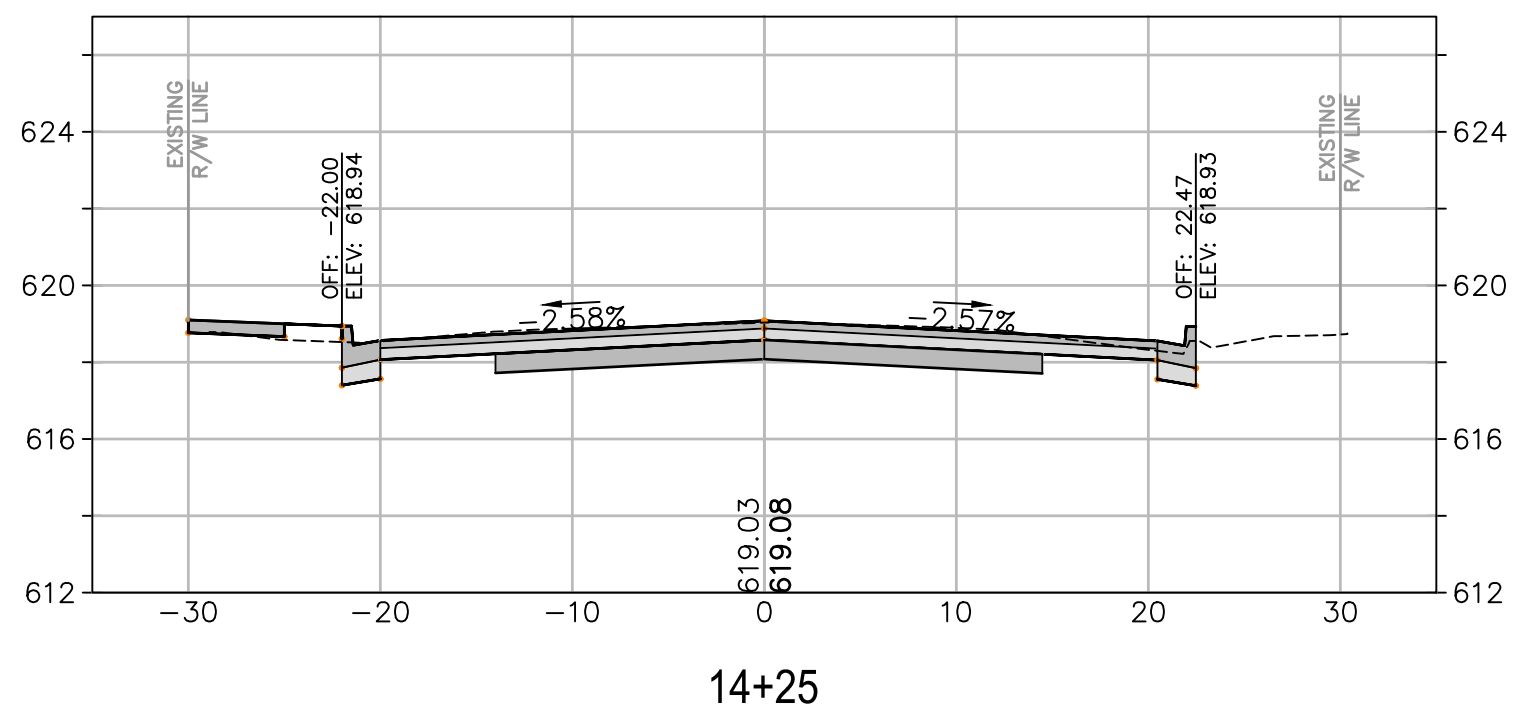
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 DRAWING DATE  
 APRIL 2020  
 SHEET NUMBER  
**19 OF 31**

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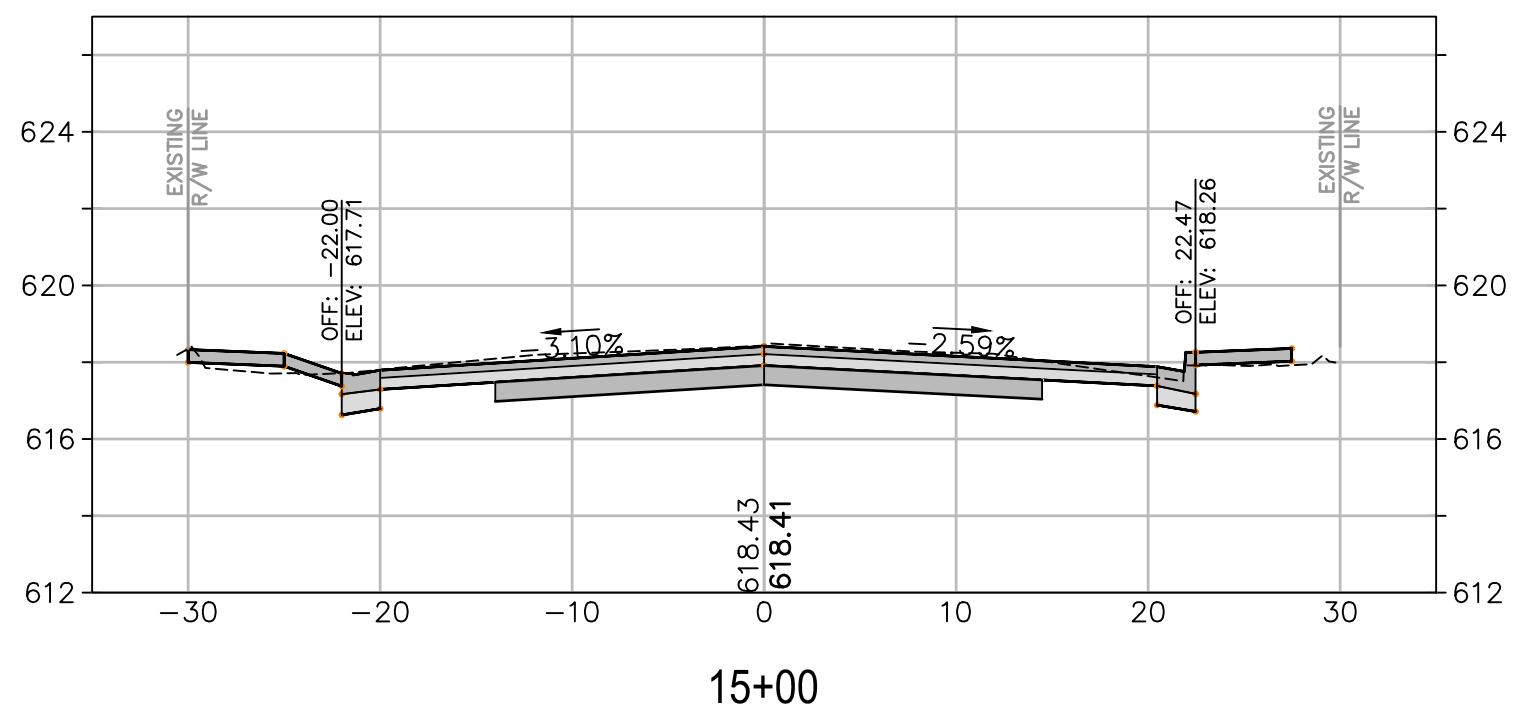
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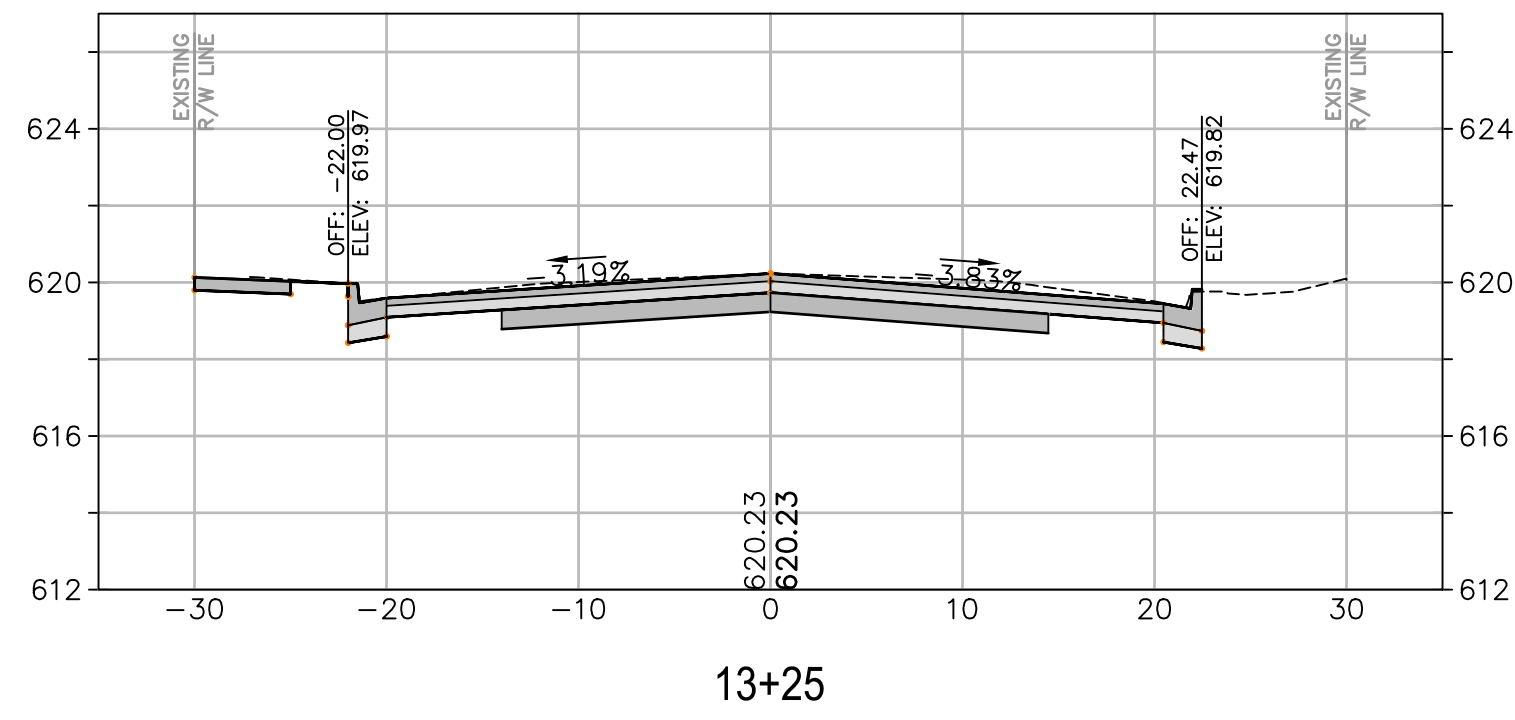
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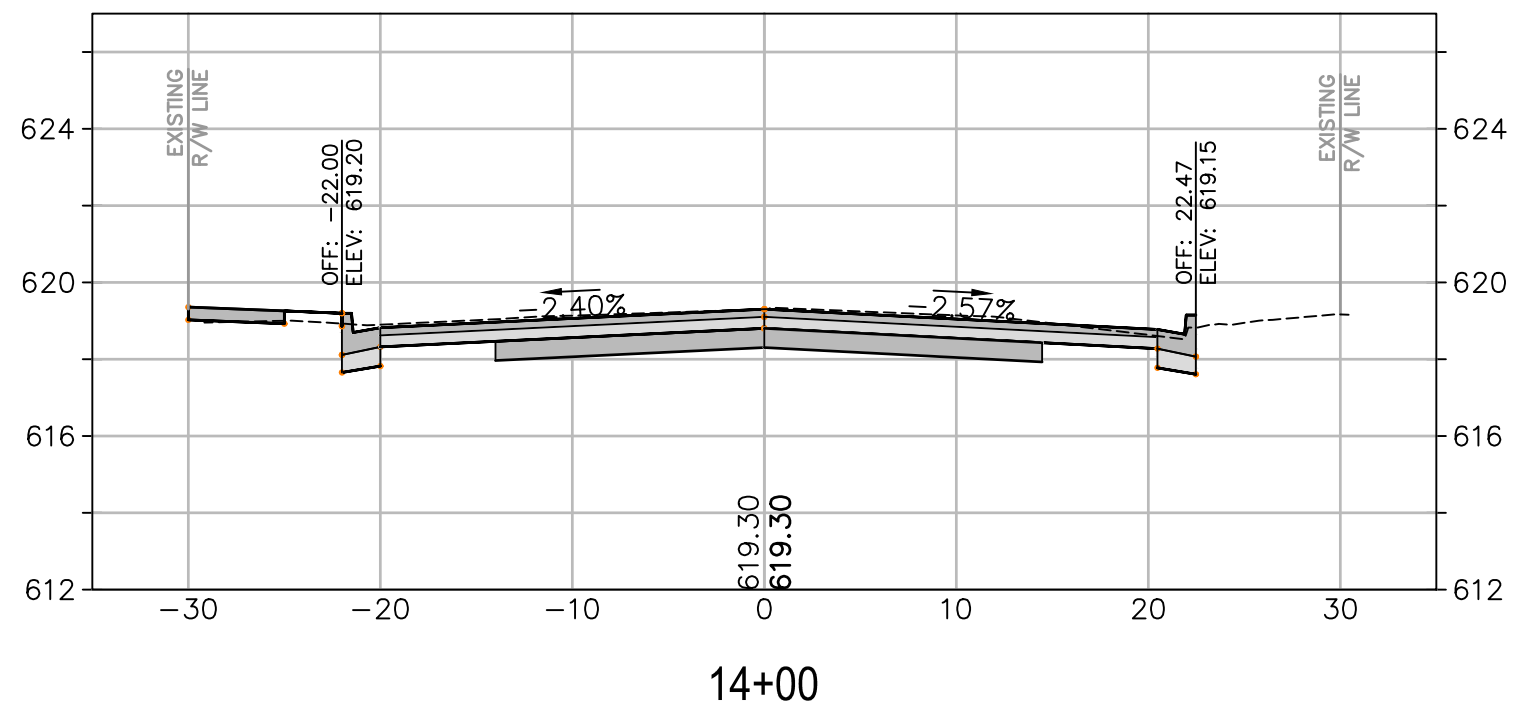
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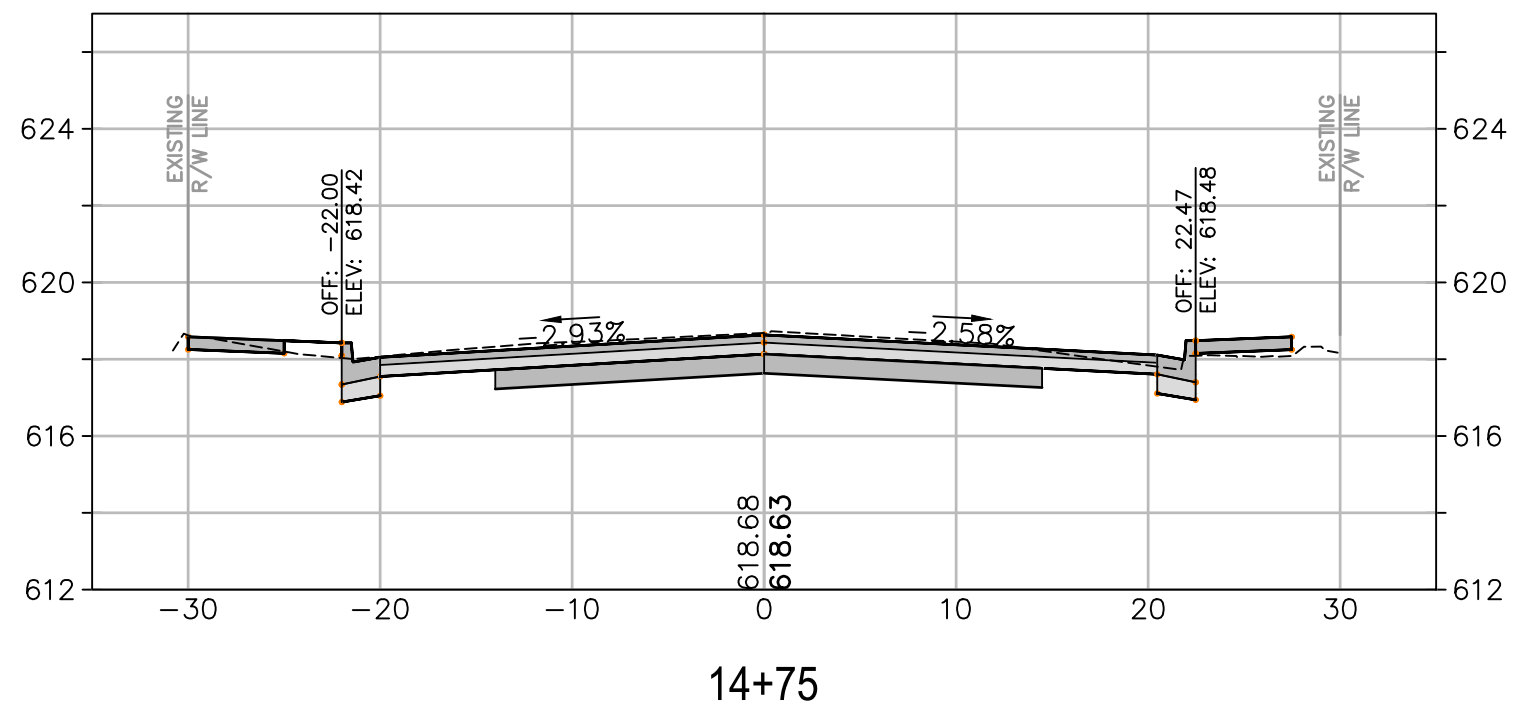
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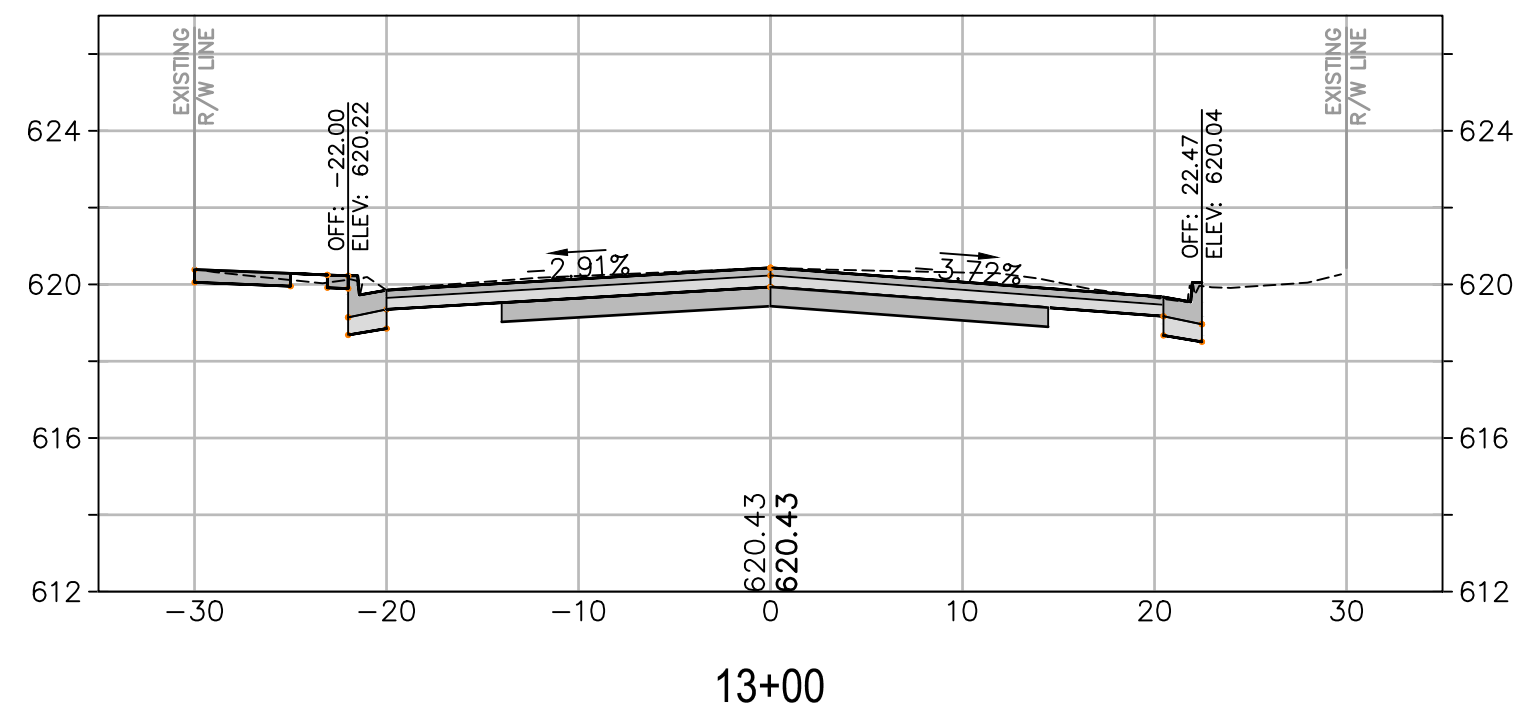
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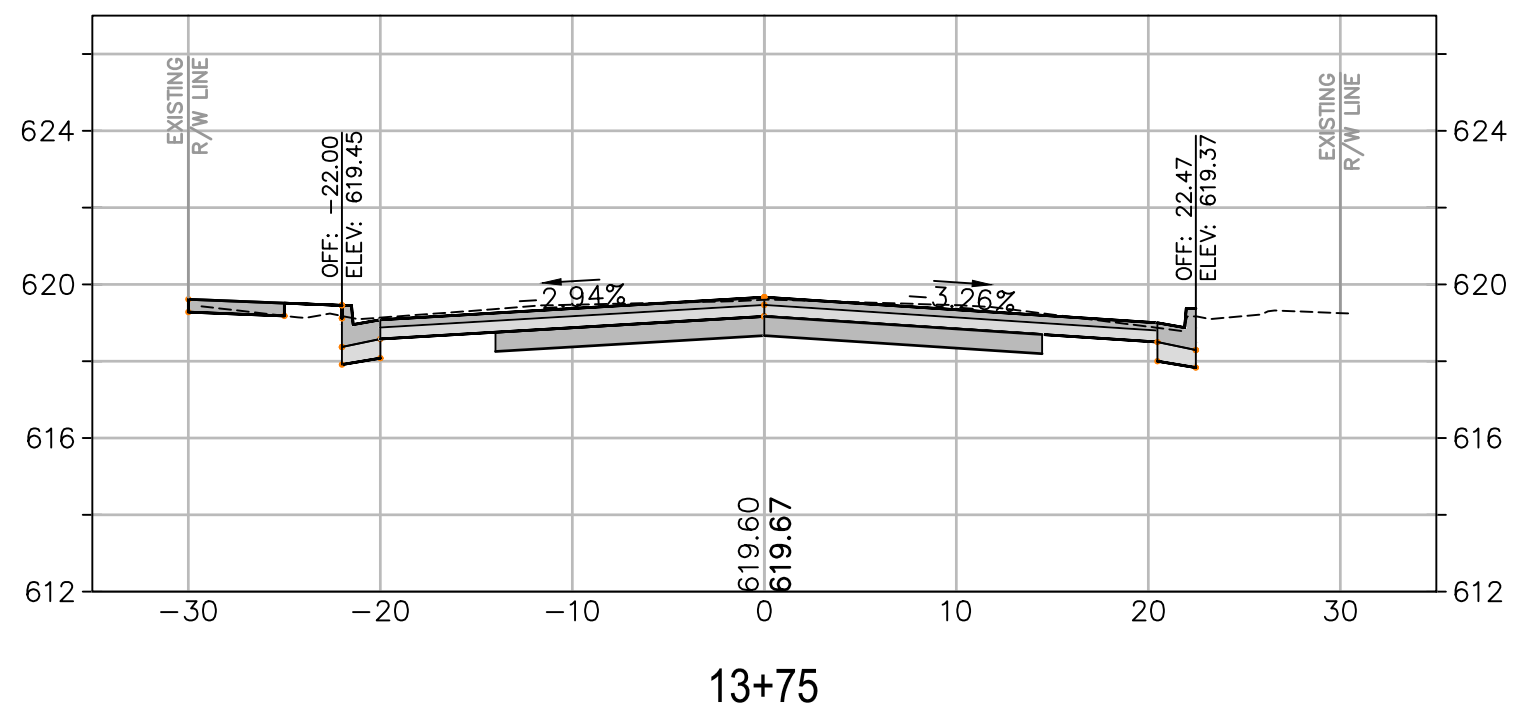
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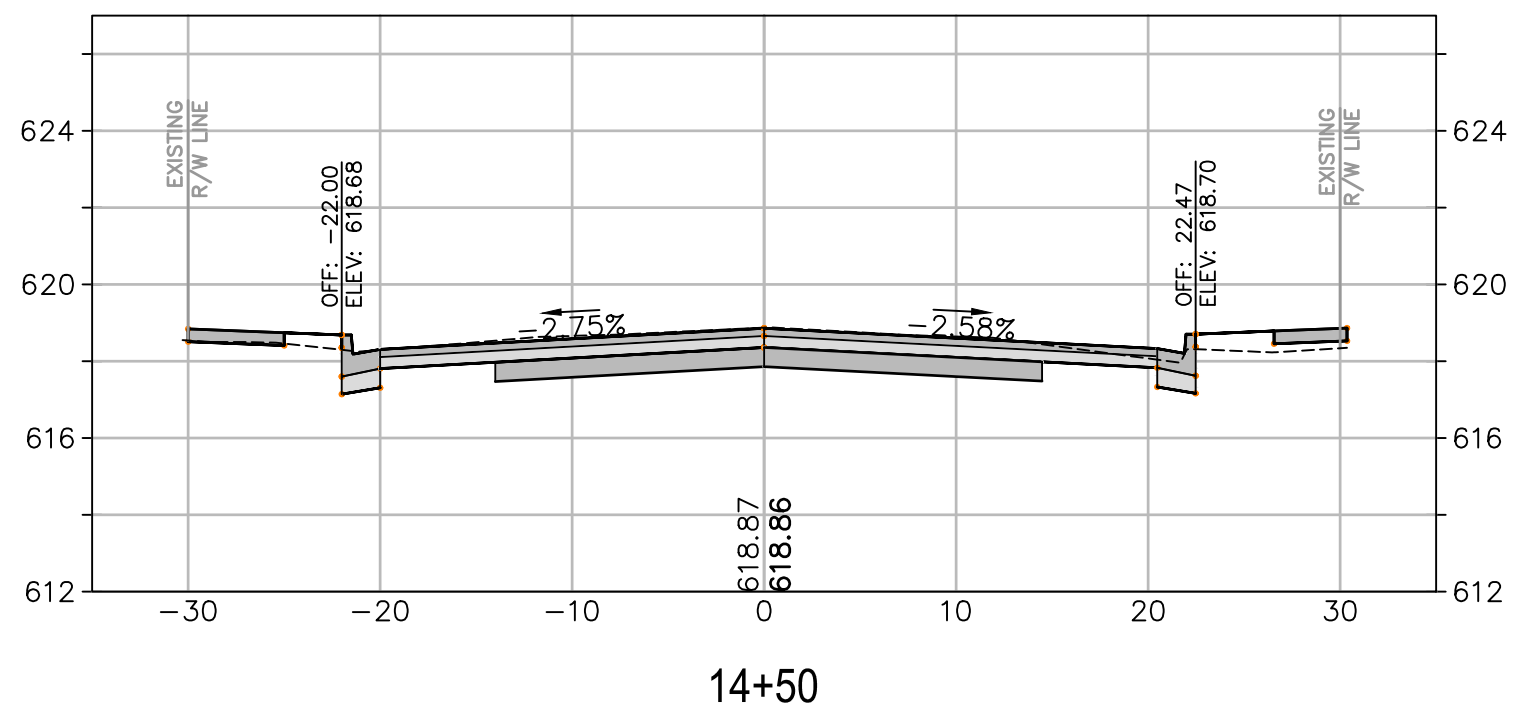
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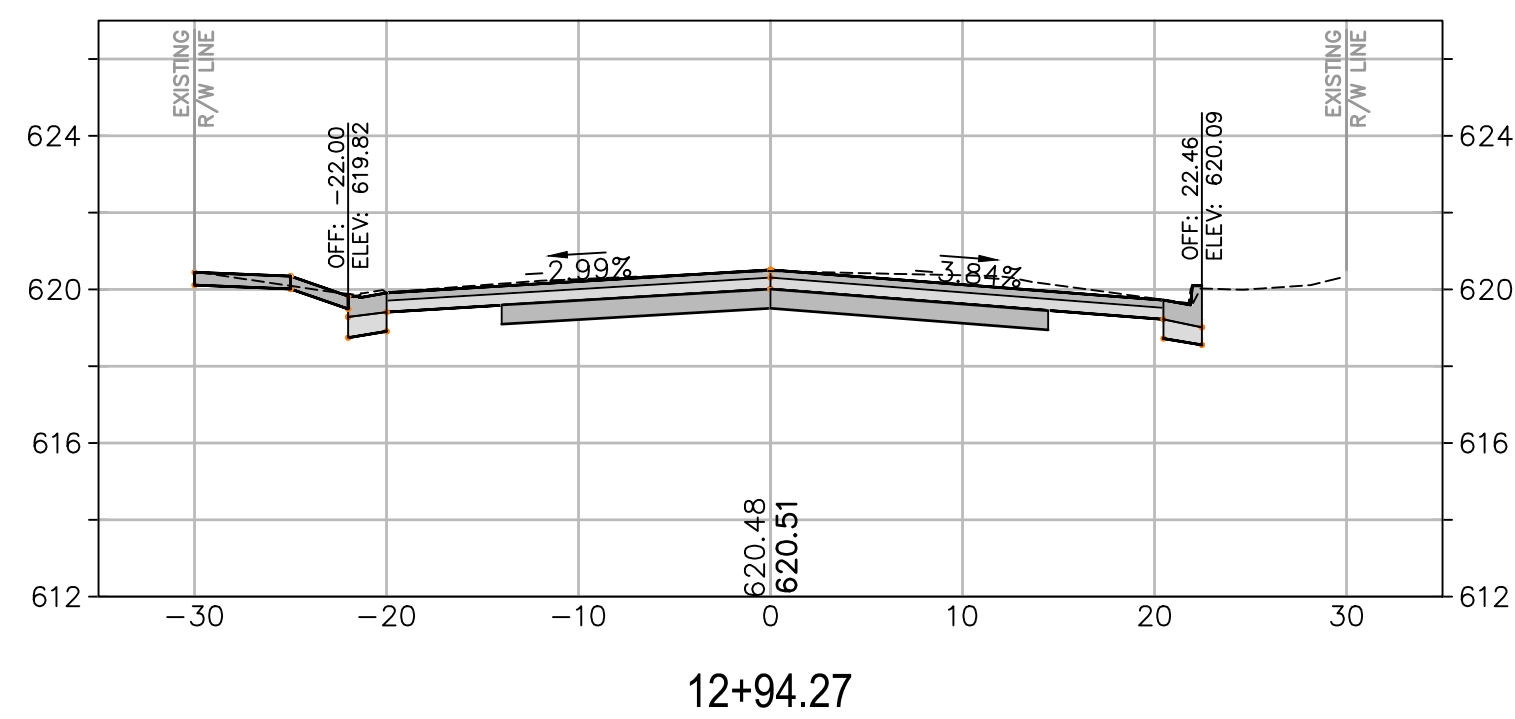
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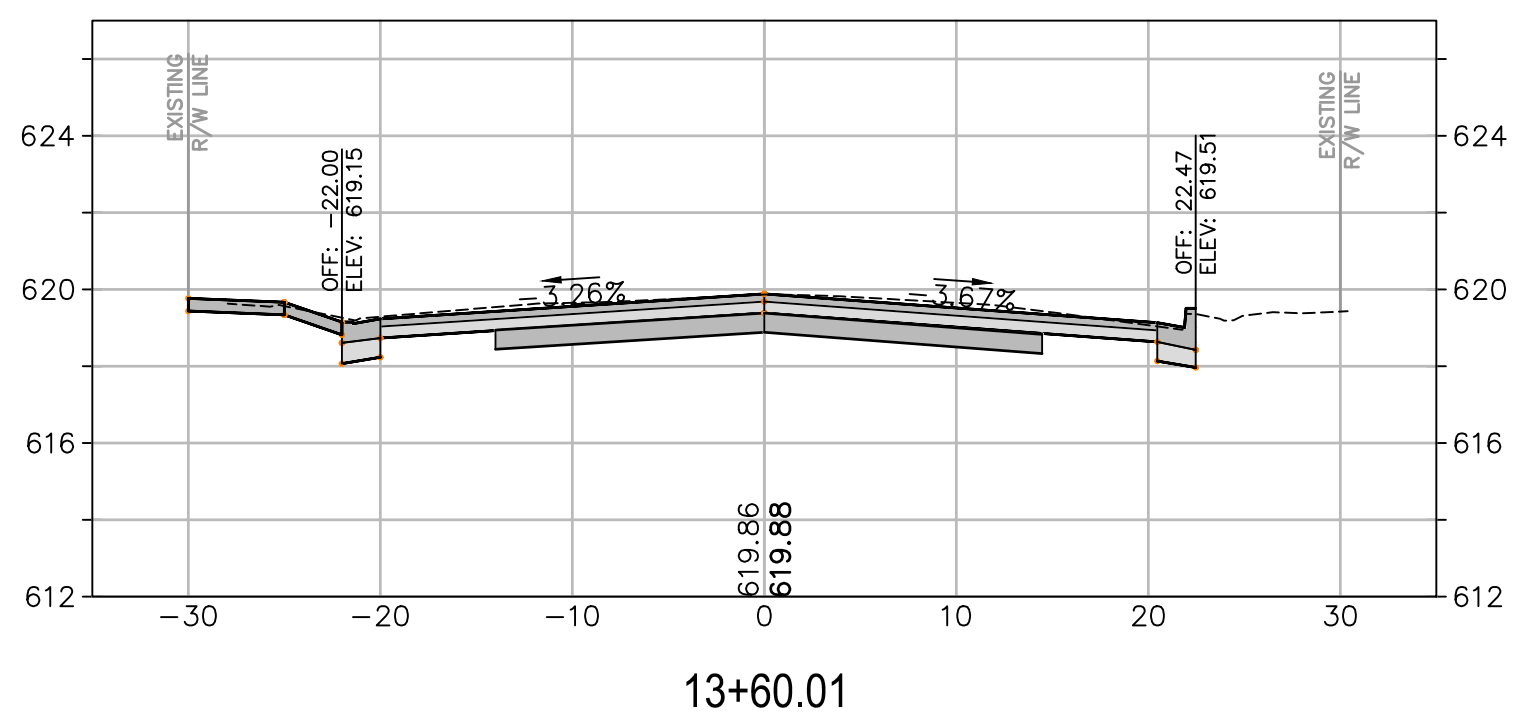
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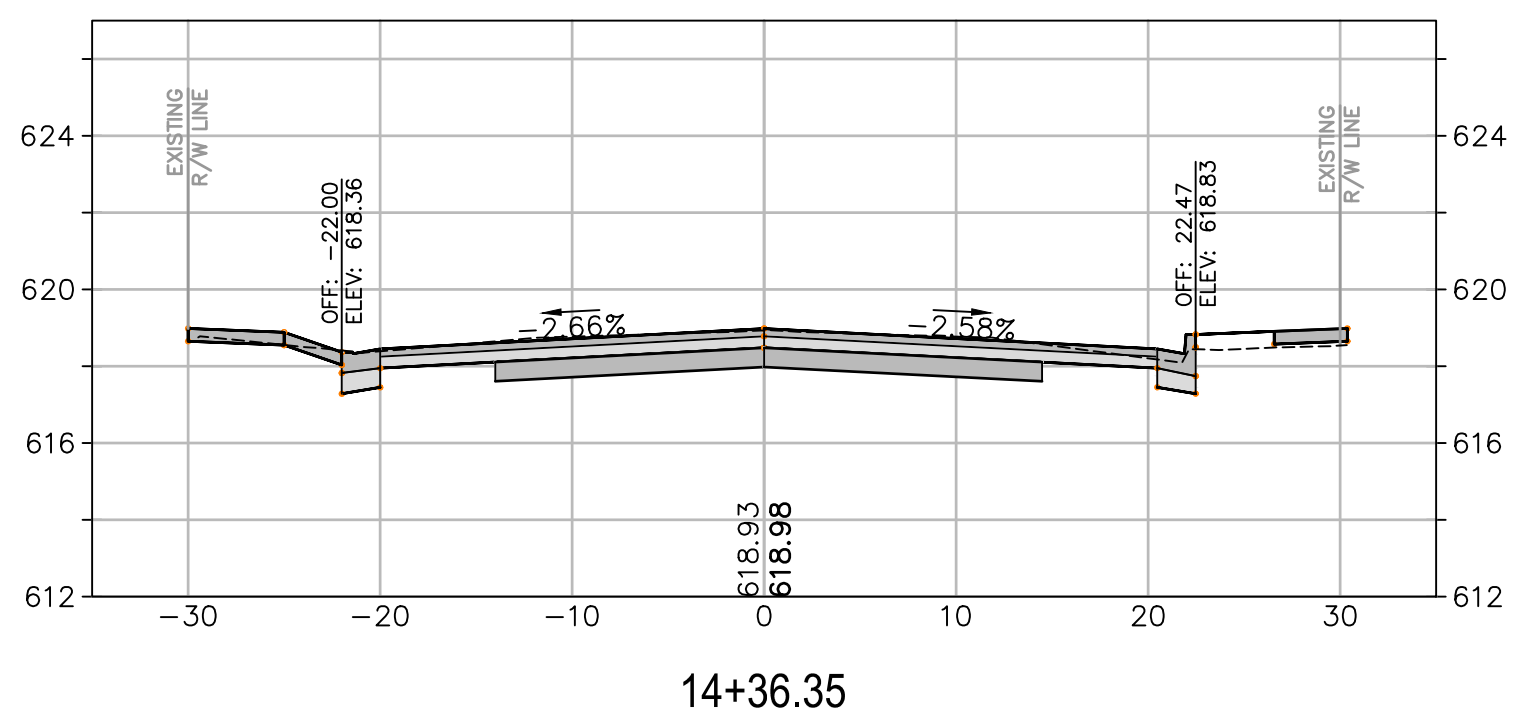
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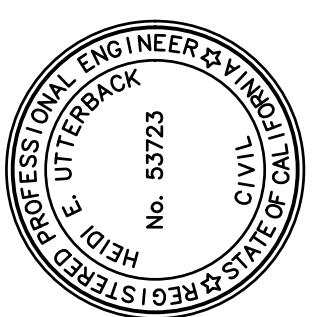


13+60.01



14+36.35

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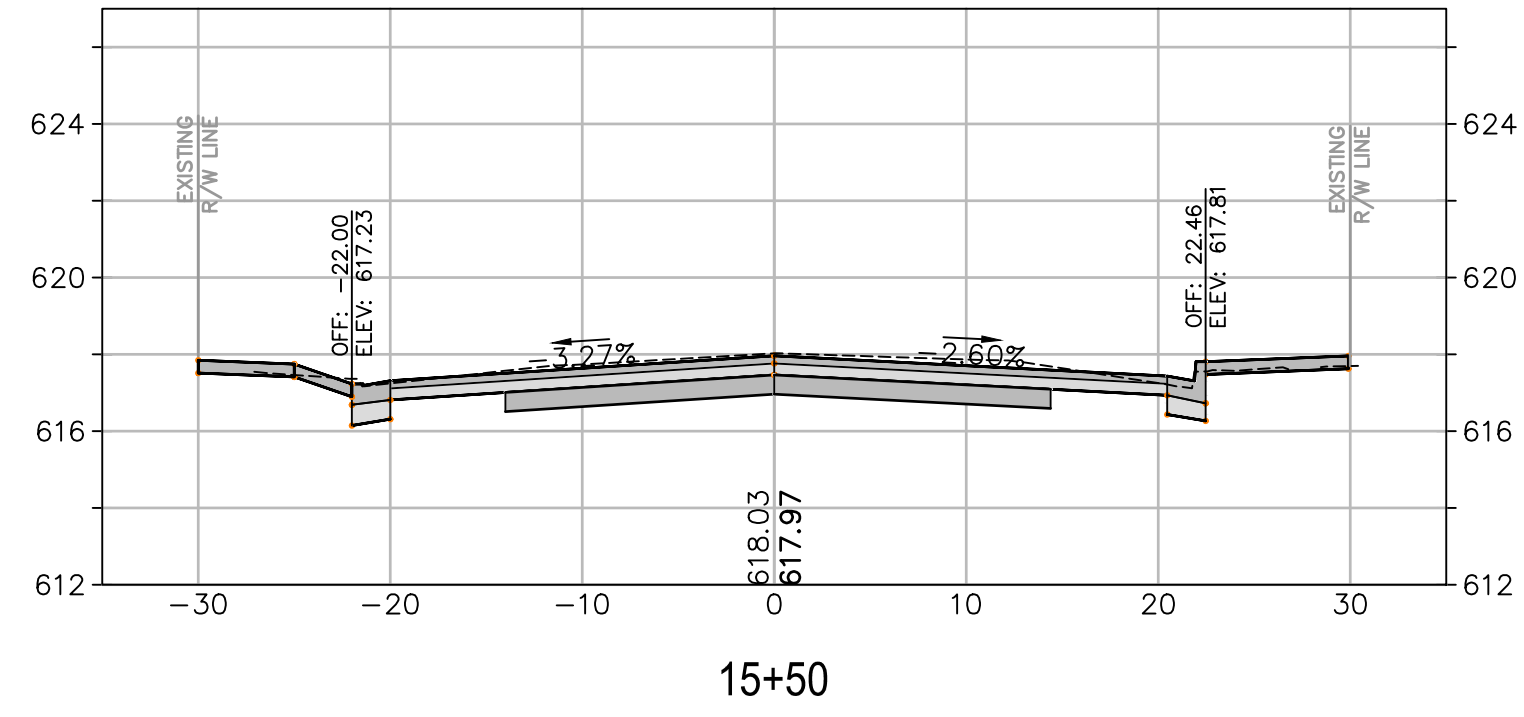
CALIFORNIA  
 CLARA AVENUE RECONSTRUCTION PROJECT  
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**CROSS SECTIONS**  
**STA. 12+94.27 TO STA. 15+00**  
 CITY OF UKIAH

PROJECT NUMBER  
 29-4352  
 DRAWING DATE  
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**20 OF 31**

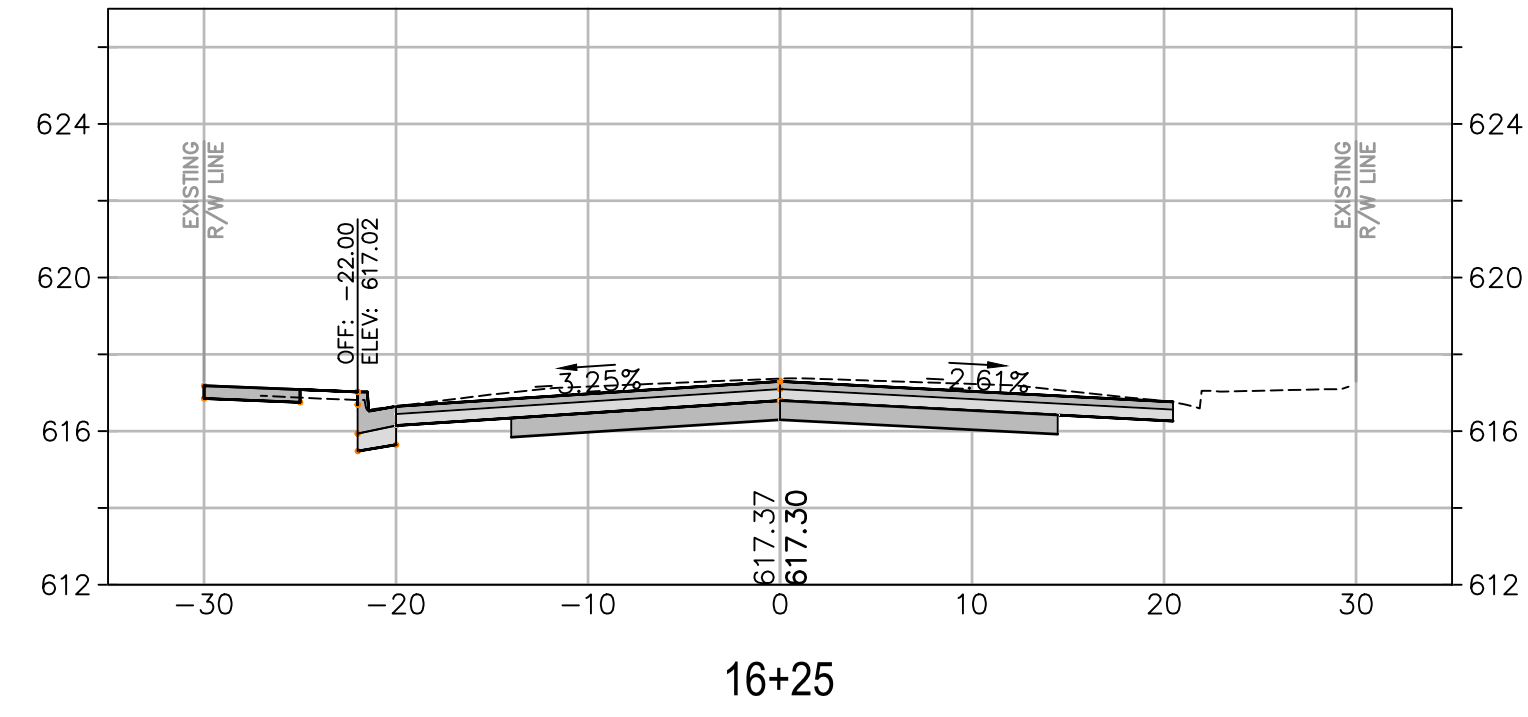
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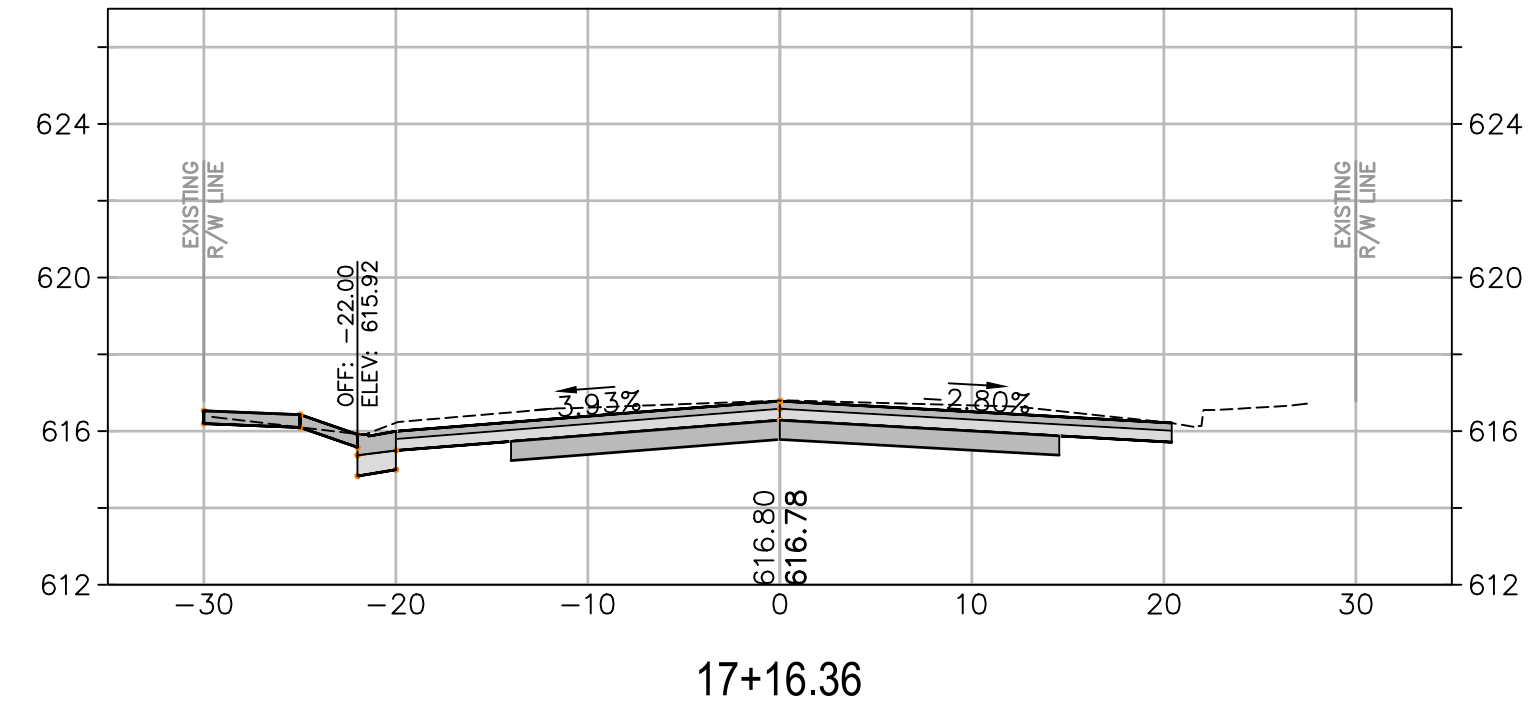
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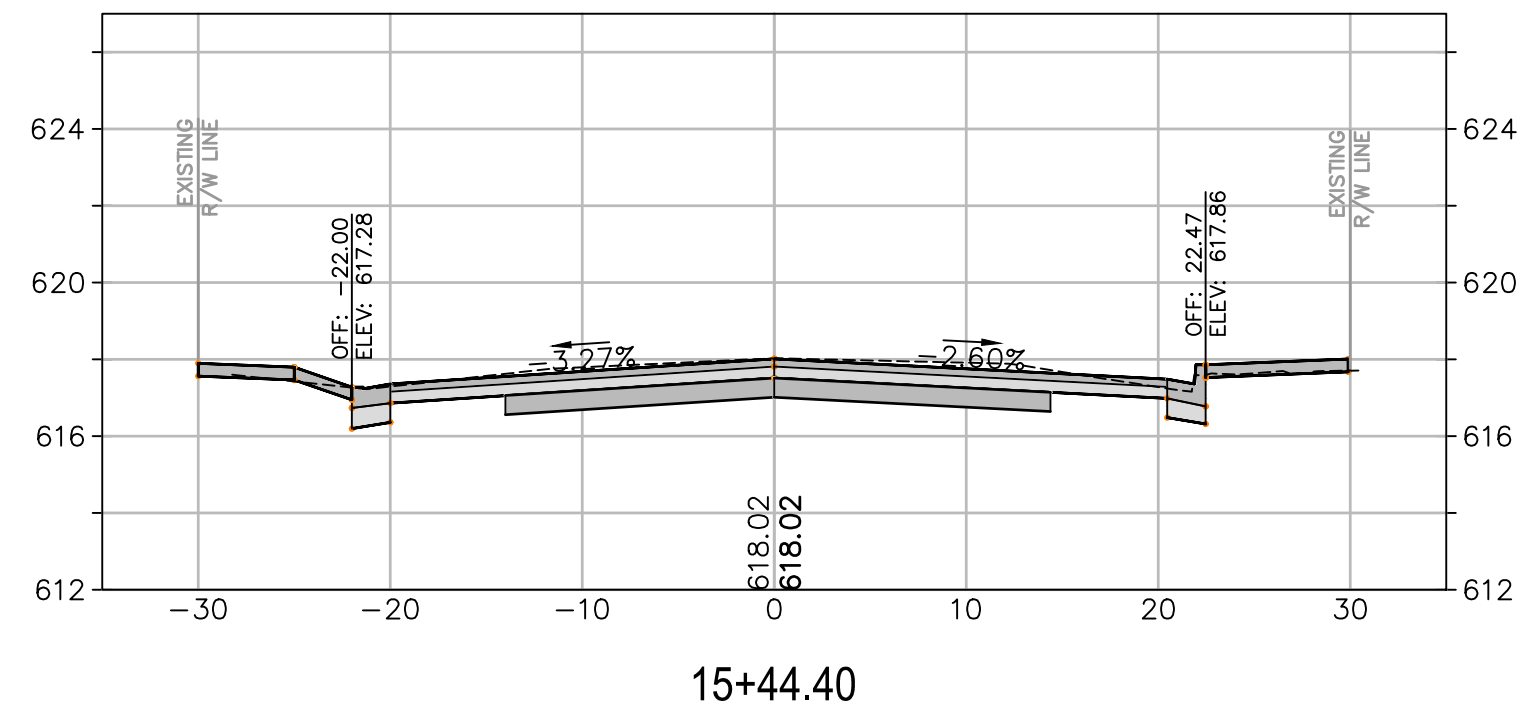
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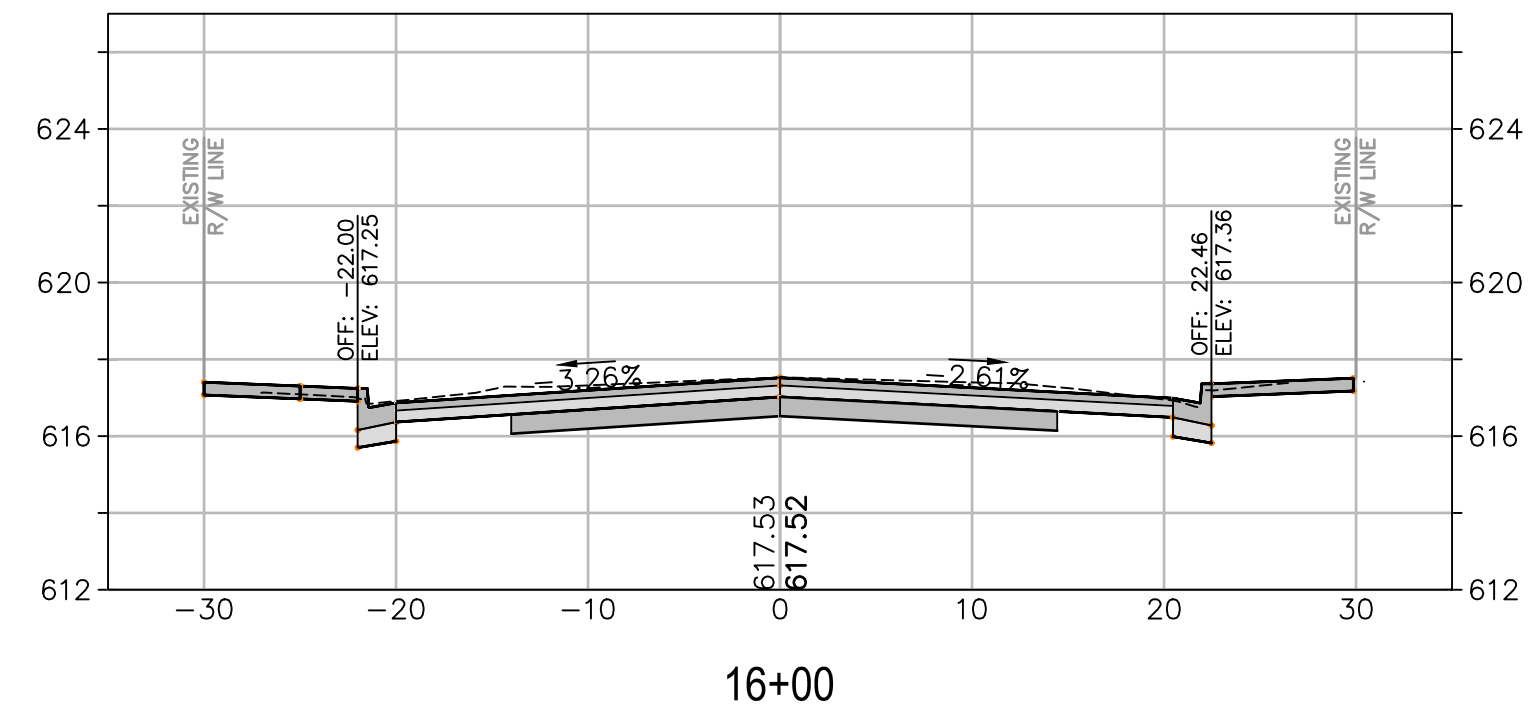
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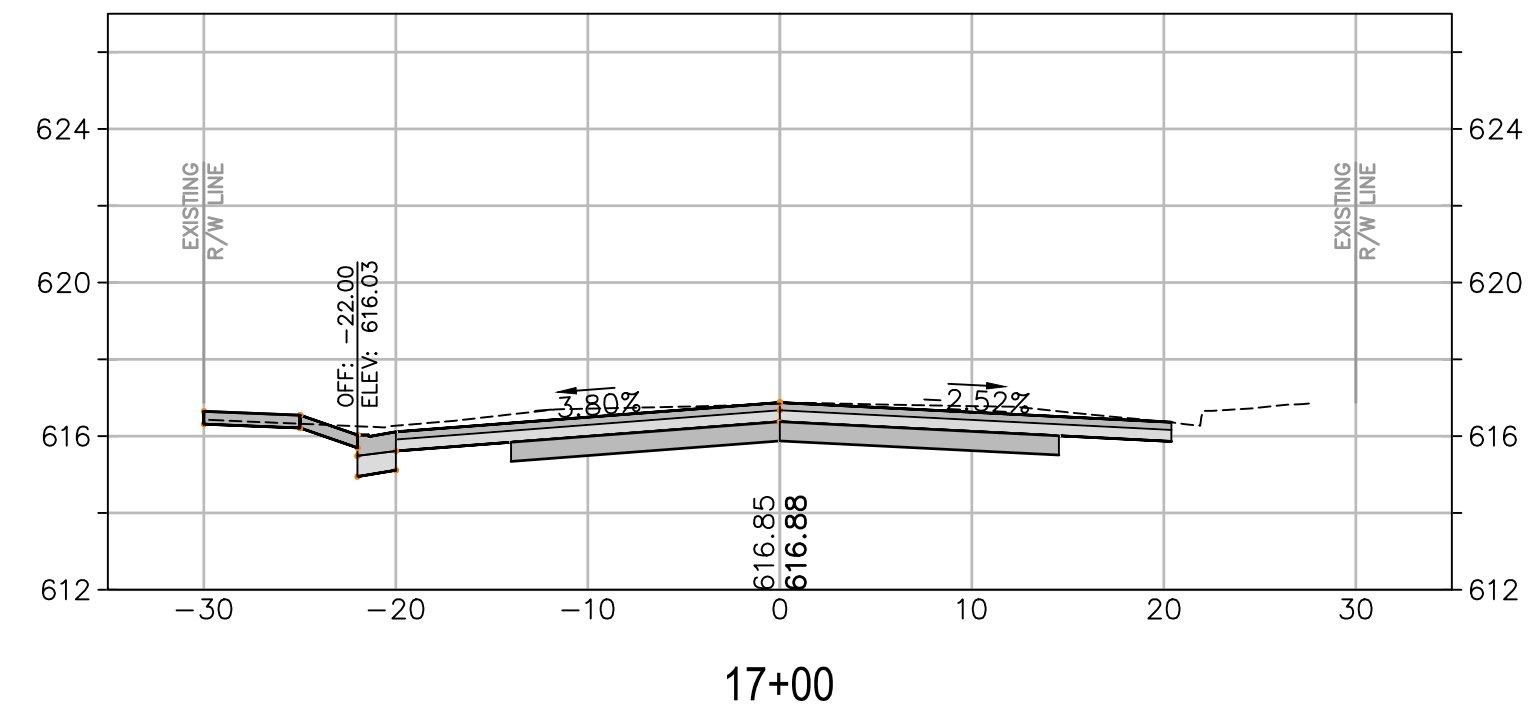
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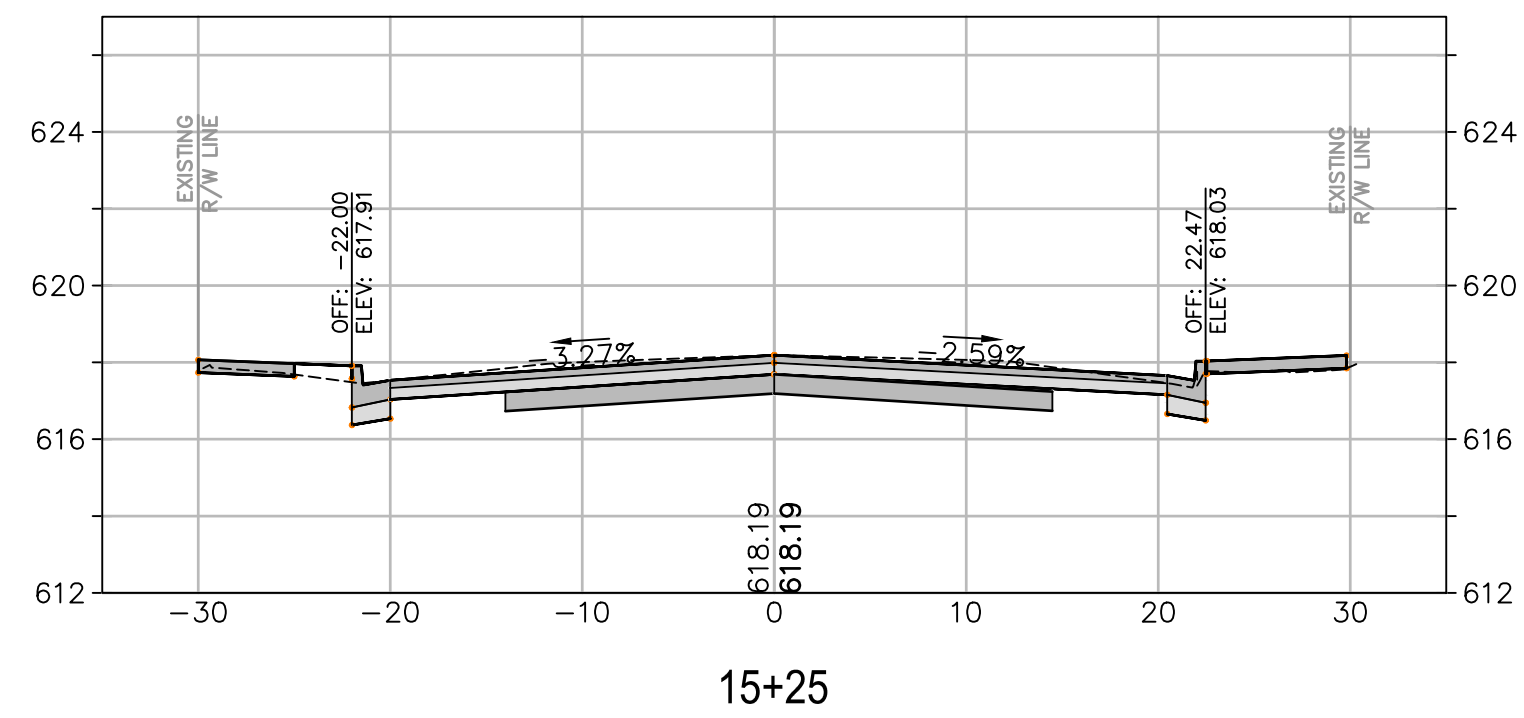
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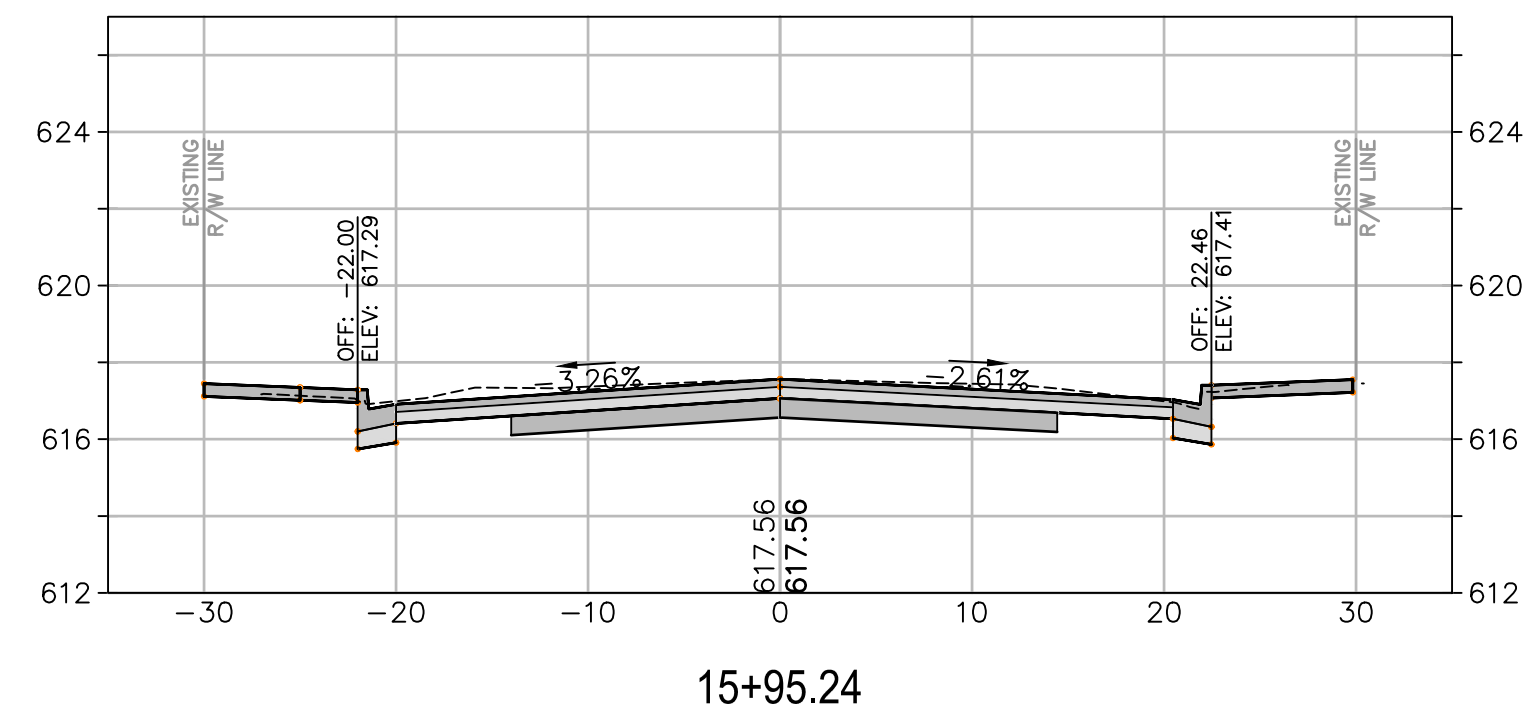
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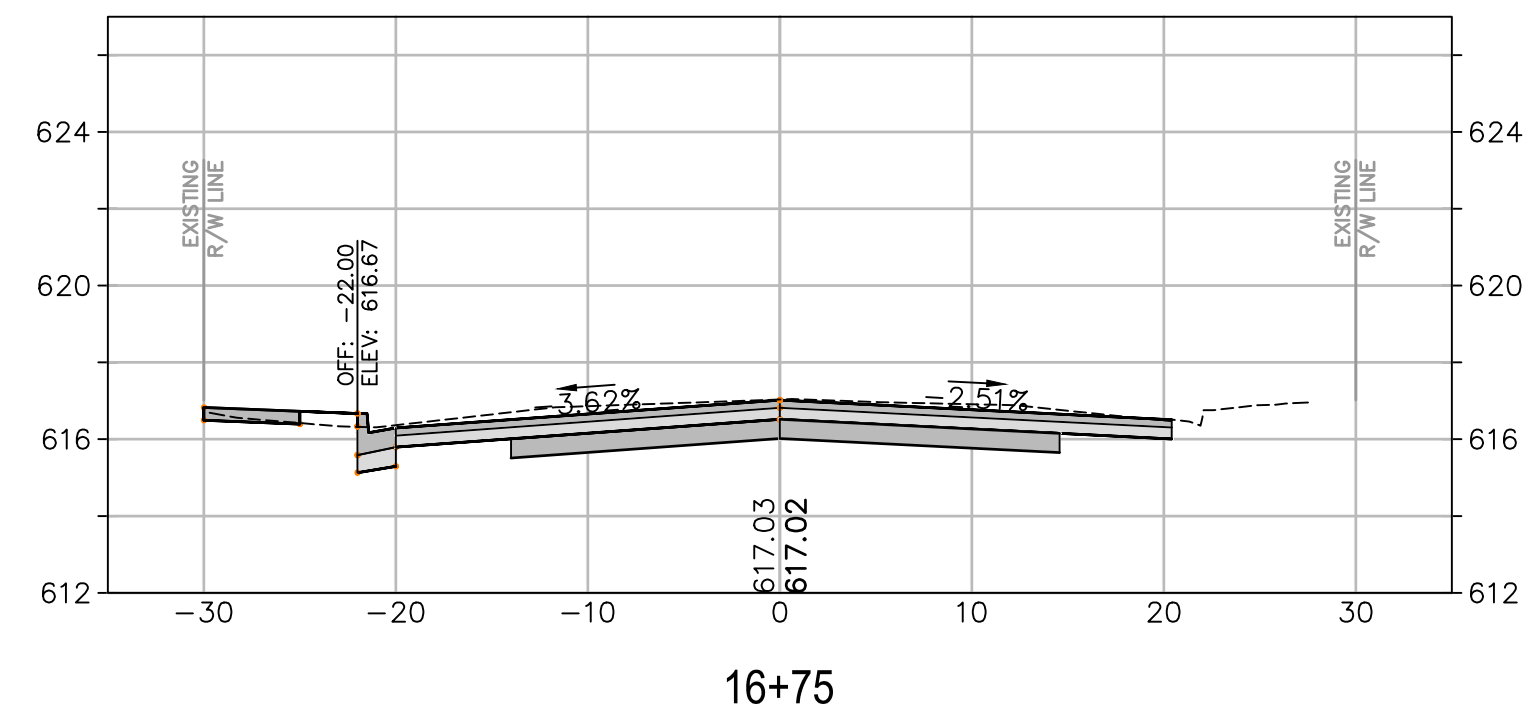
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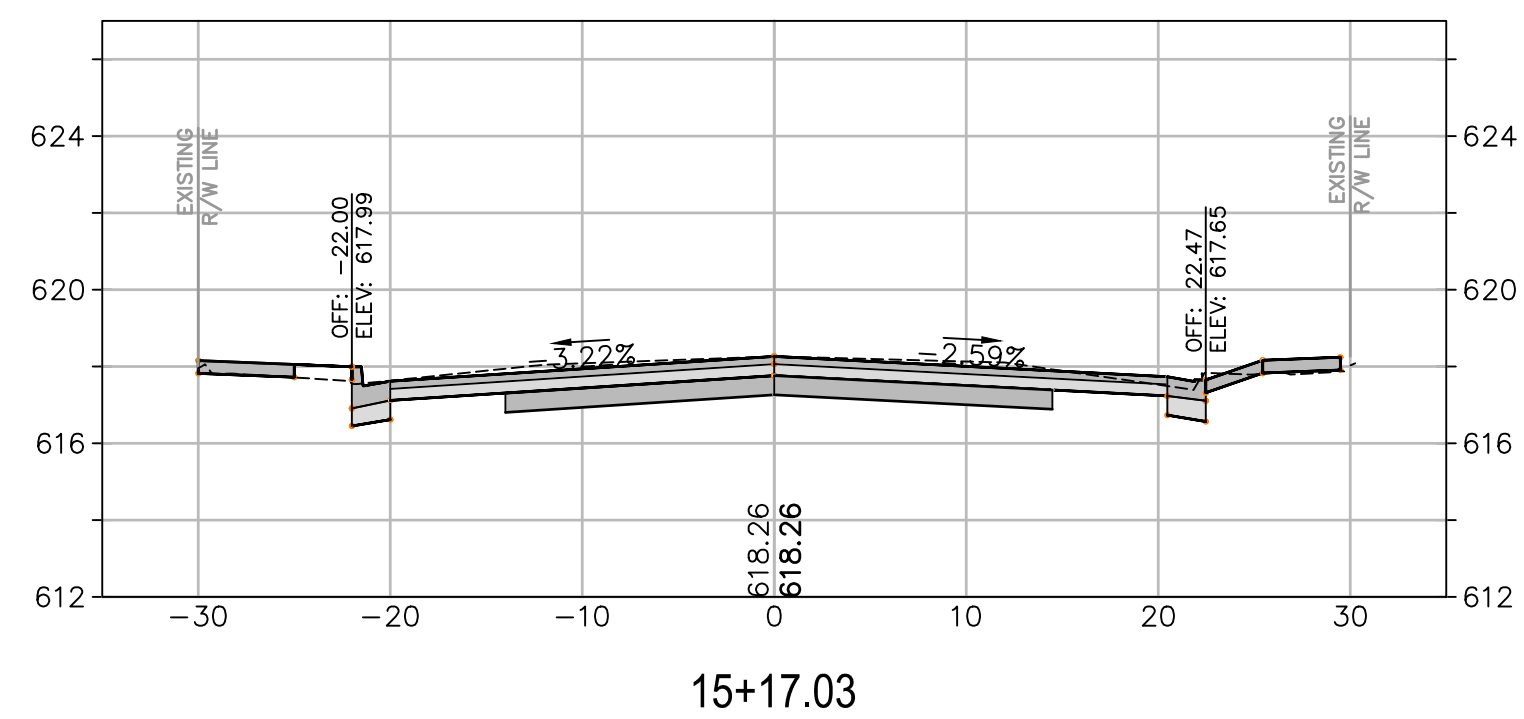
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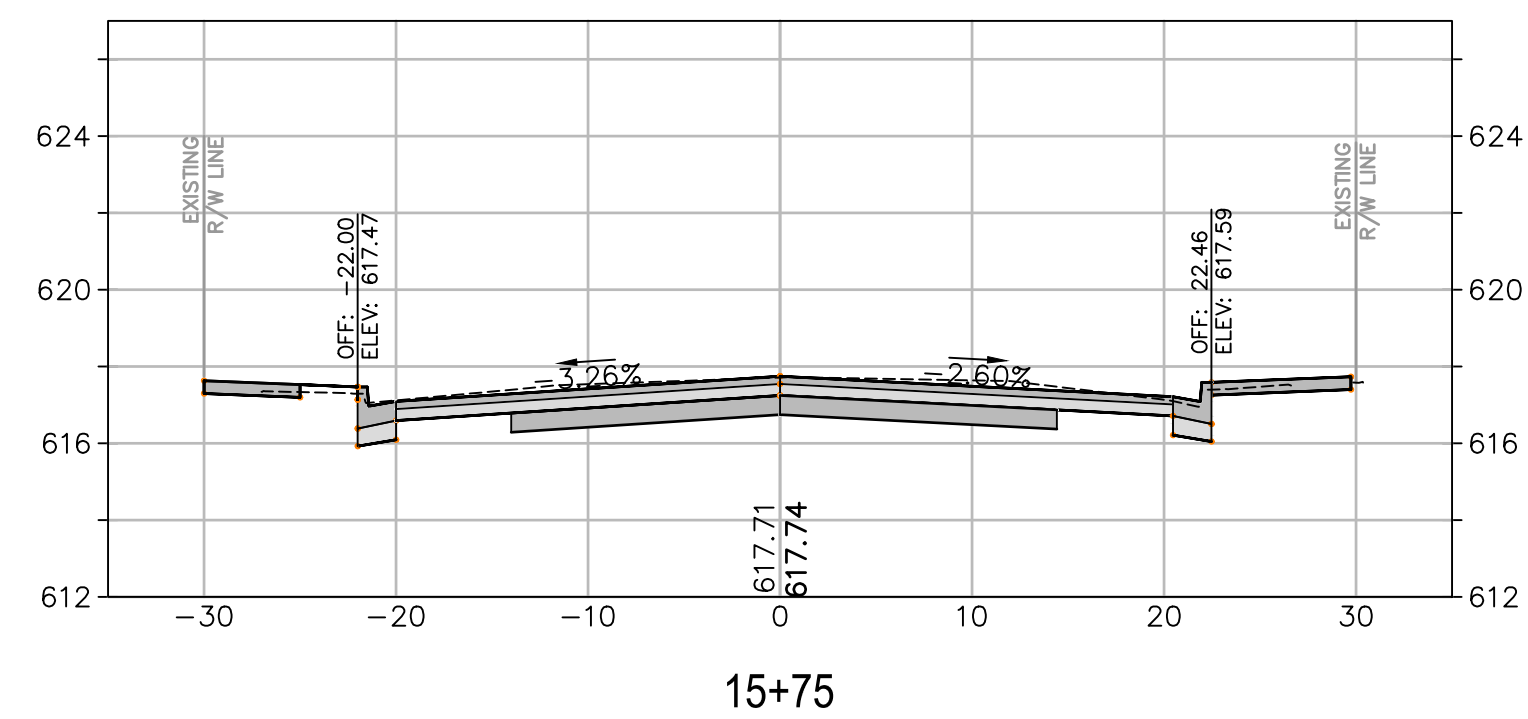
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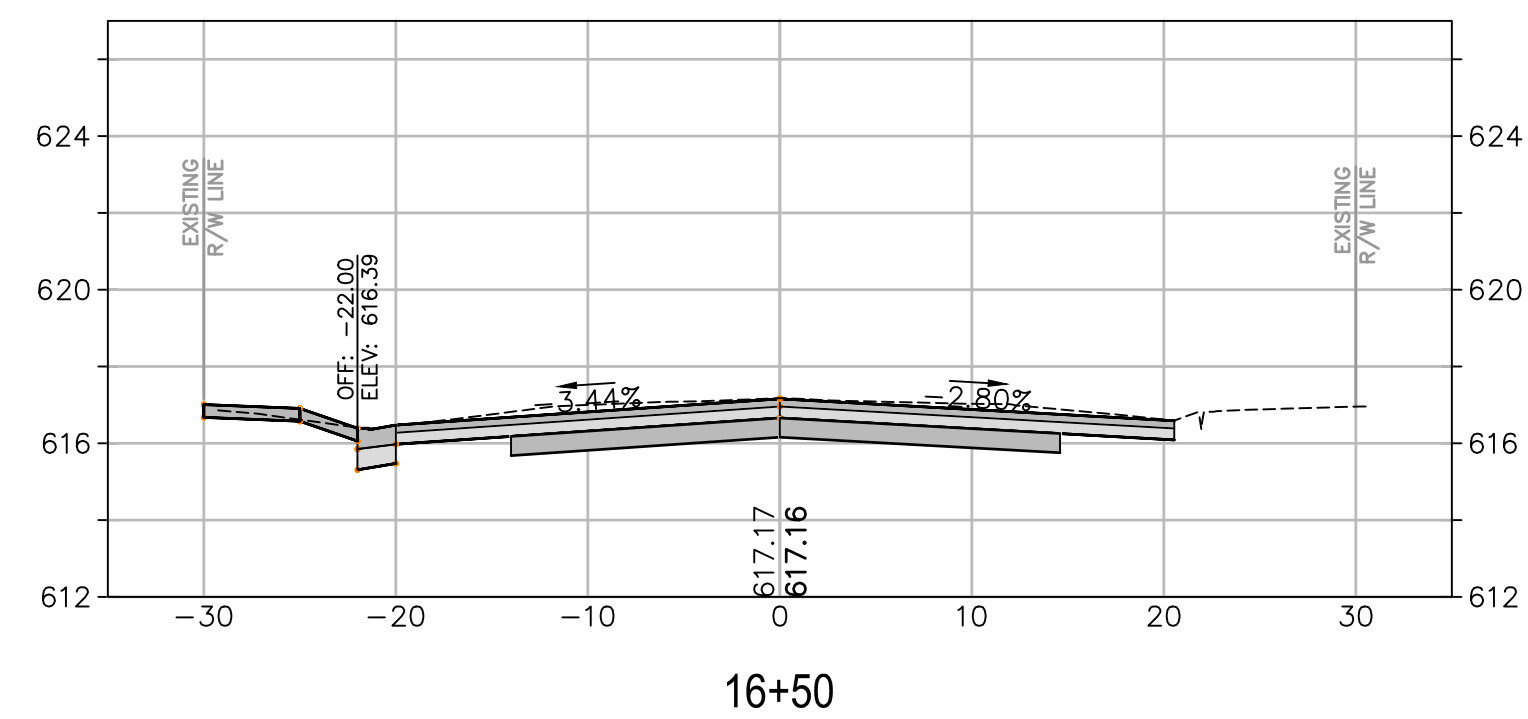
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15+17.03

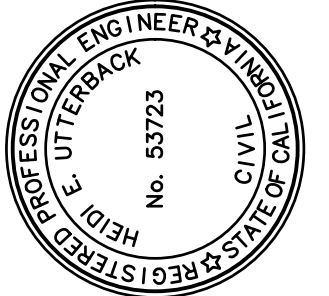


15+75



16+50

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 REVIEWED BY HEU

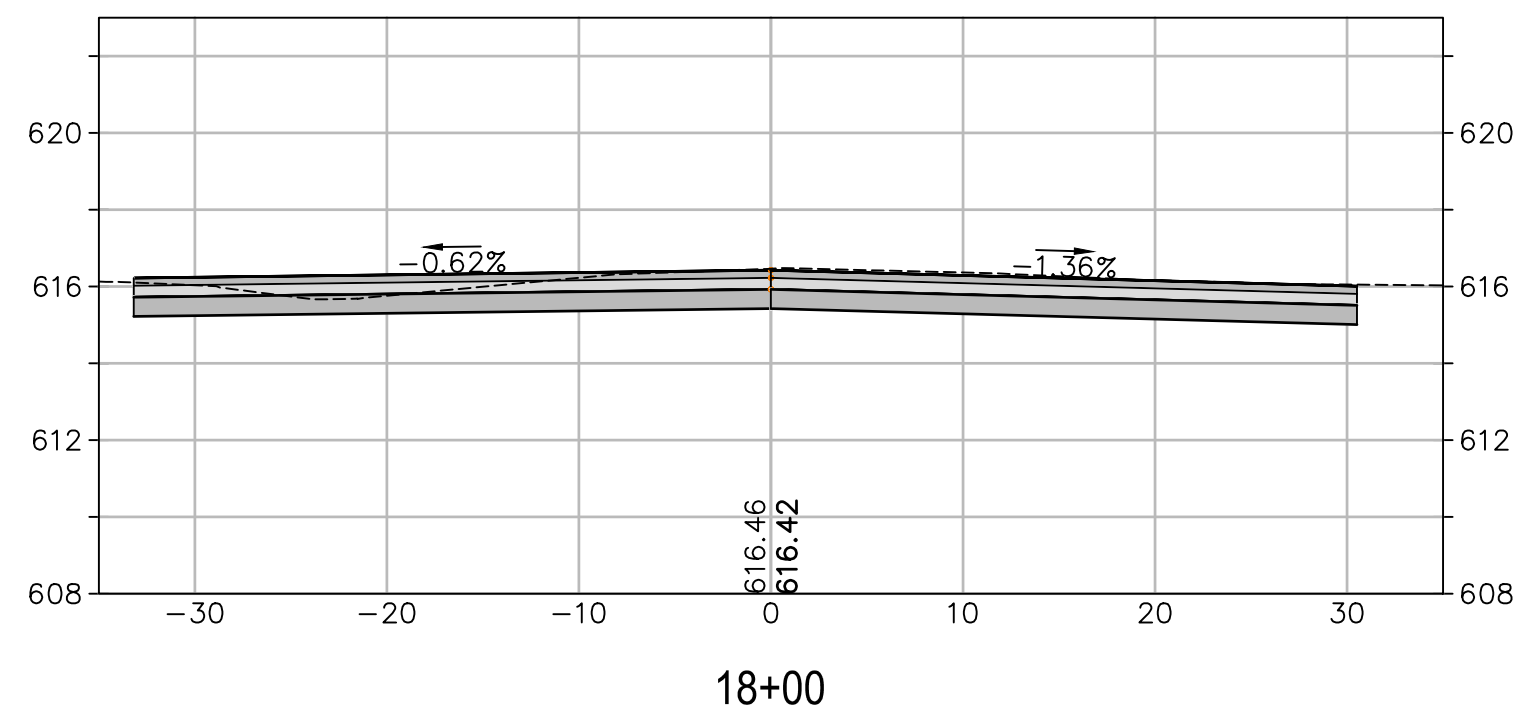
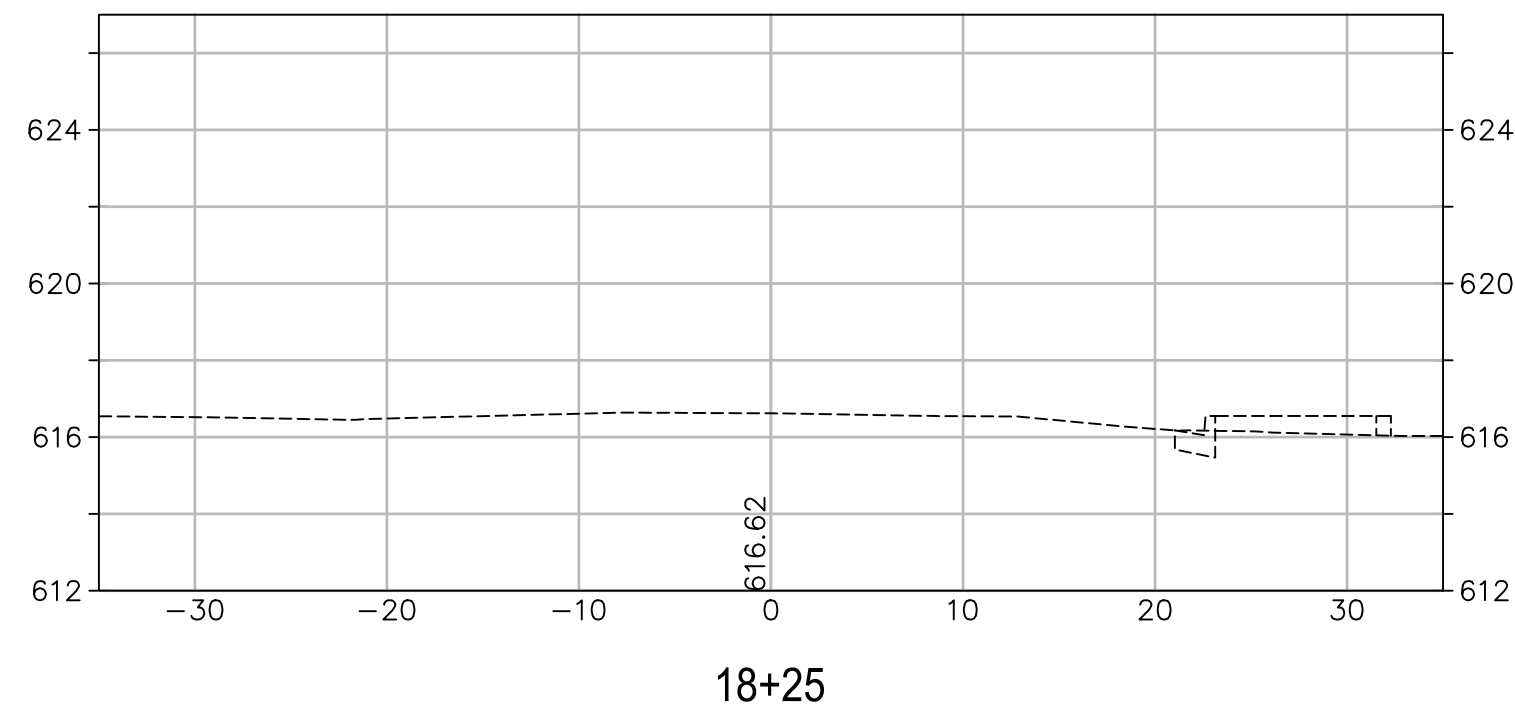
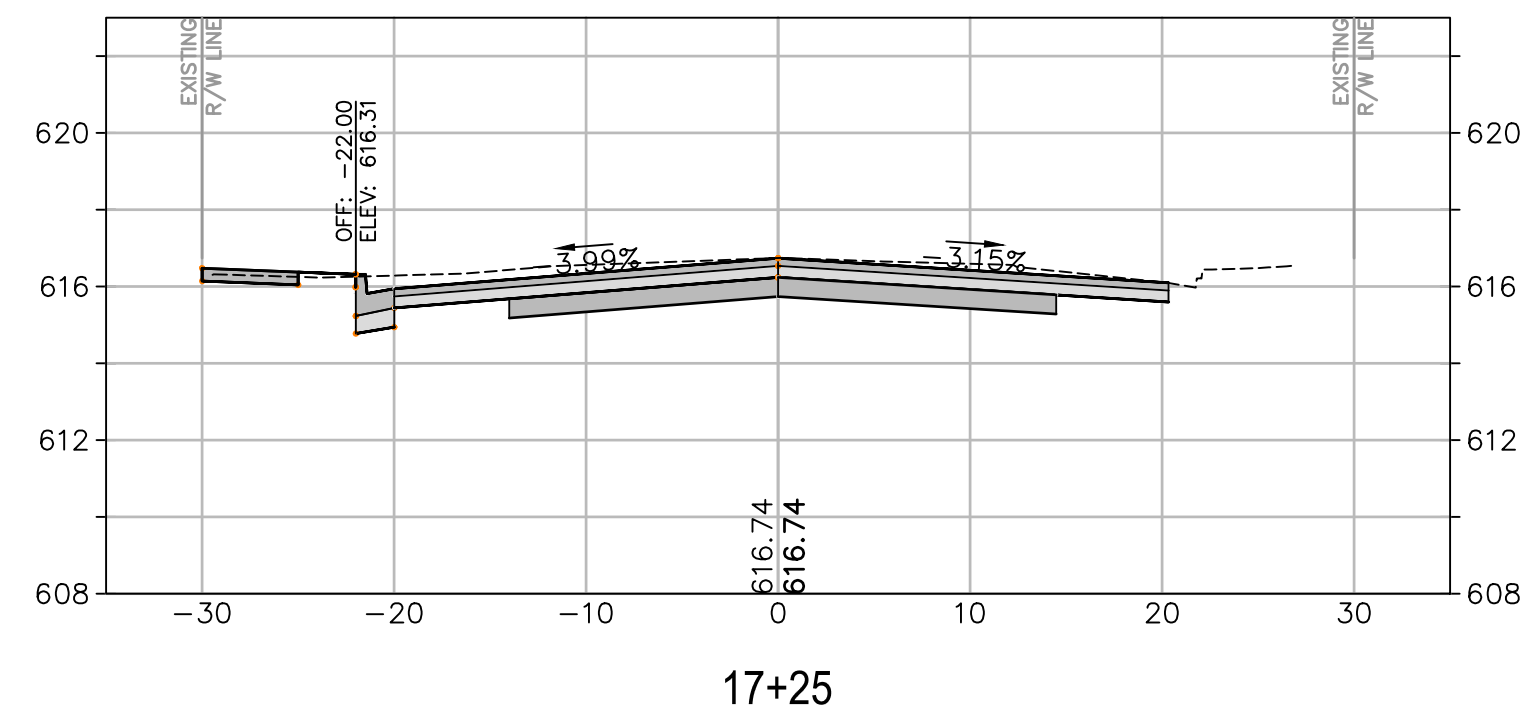
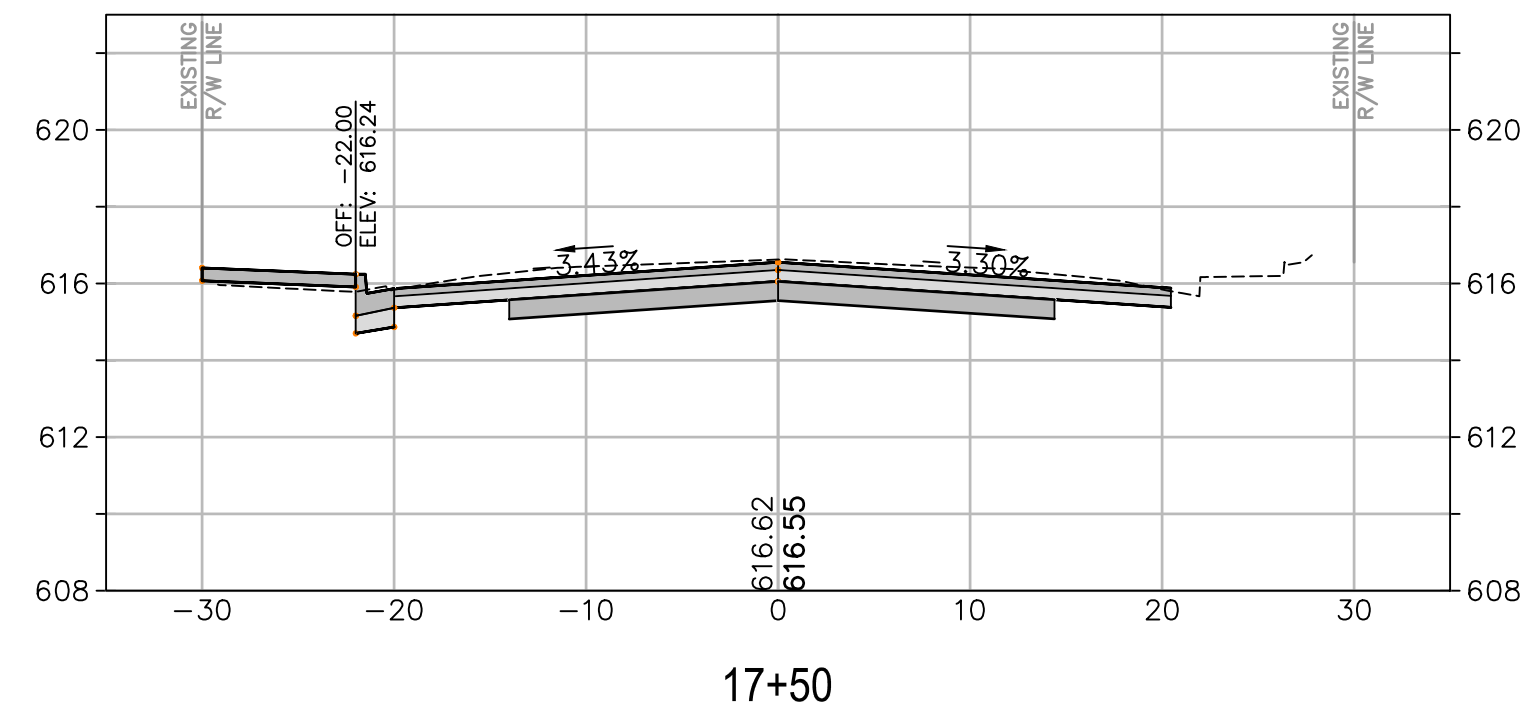
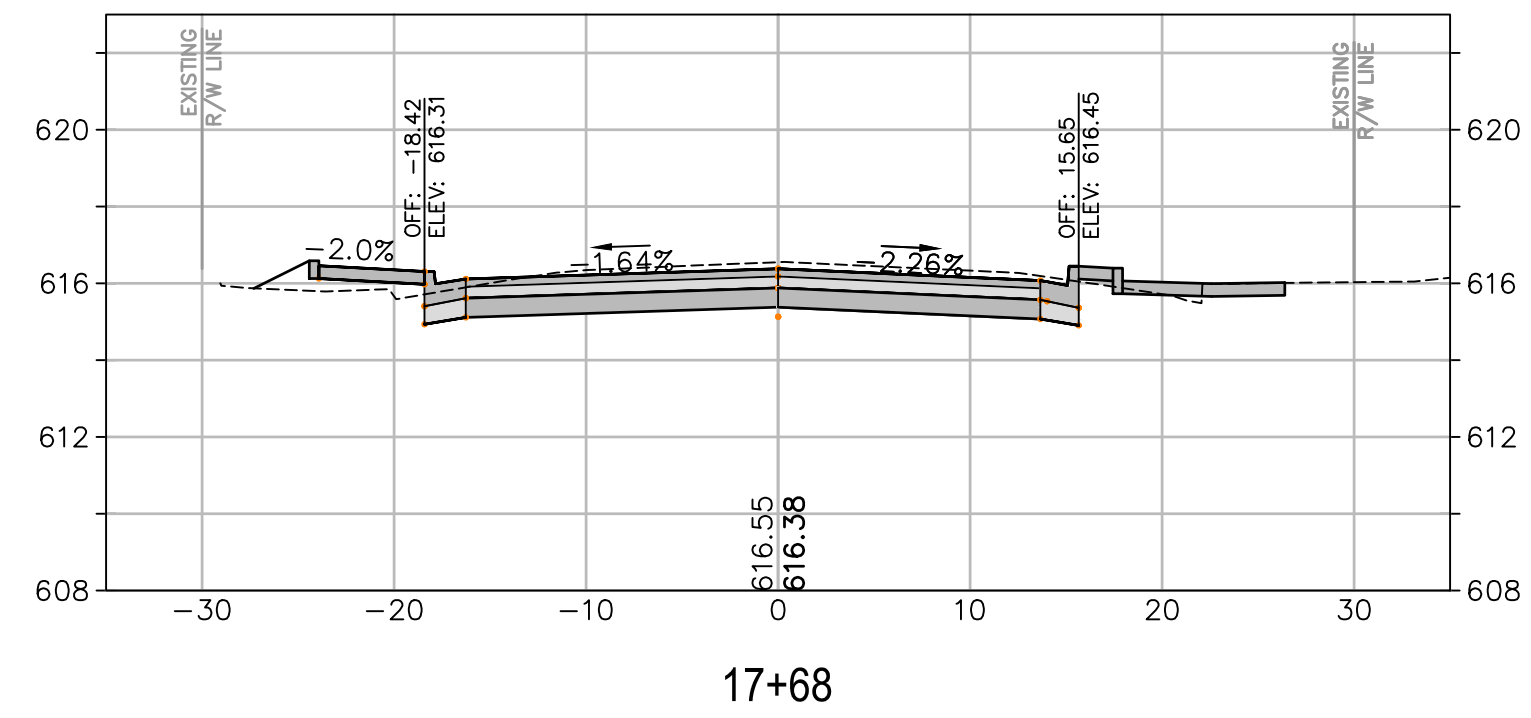
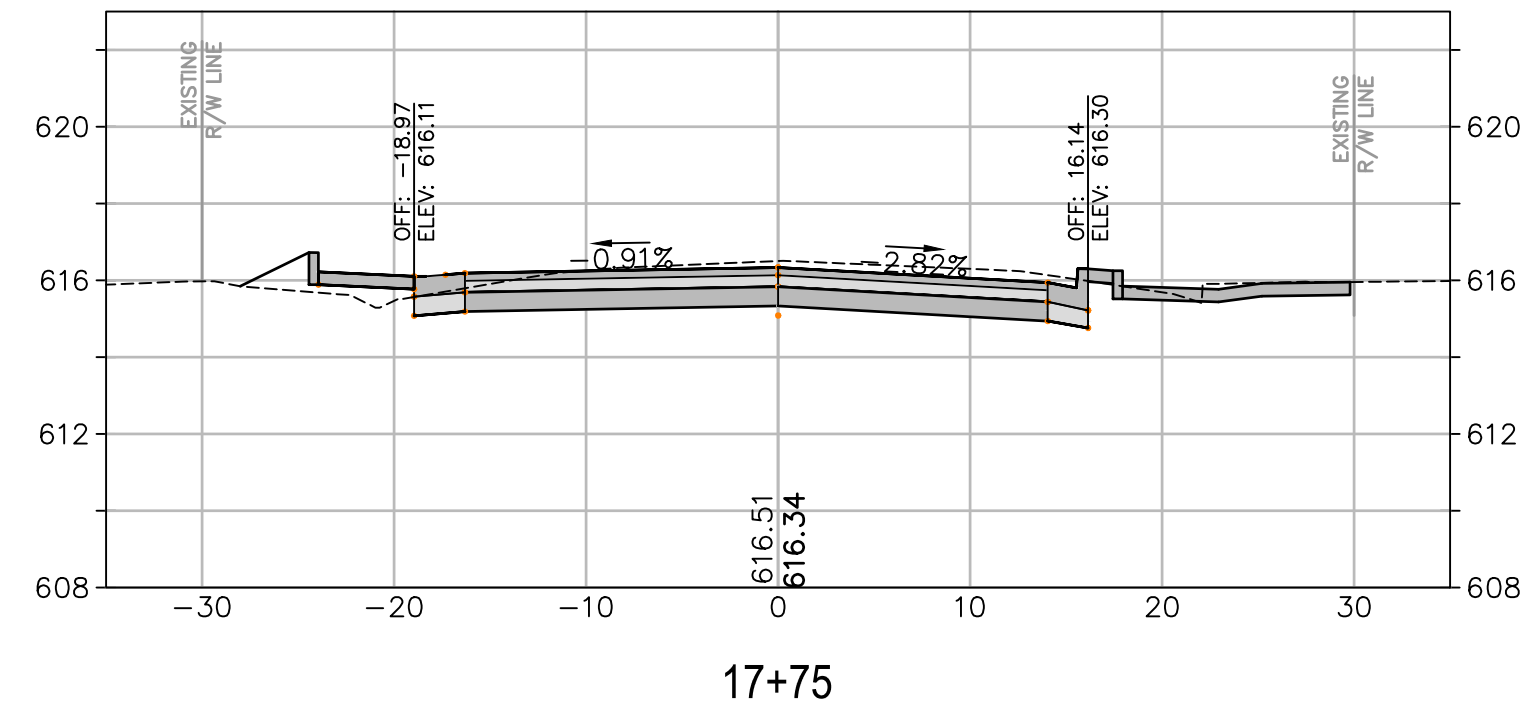
**Coastland Civil Engineering, Inc.**  
 1400 Neotomas Avenue, Santa Rosa, CA 95405  
 707.571.8003 Fax

CALIFORNIA  
 CLARA AVENUE RECONSTRUCTION PROJECT  
 SPECIFICATION NO. 20-08  
**CROSS SECTIONS**  
**STA. 15+17.03 TO STA. 17+16.36**  
 CITY OF UKIAH

PROJECT NUMBER  
 29-4352  
 DRAWING DATE  
 APRIL 2020  
 SHEET NUMBER  
**21 OF 31**

Xrefs: CCE-ENGINEERS STAMPS-PLAN.dwg  
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 ORIGINAL PLOT DATE:

FOR REDUCED PLANS, THE 0 ORIGINAL SCALE IS IN INCHES



**CROSS SECTION SCALES**  
 HORIZ.: 1" = 10'  
 VERT.: 1" = 5'



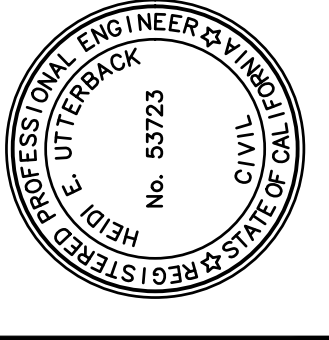
**Coastland Civil Engineering, Inc.**  
 1400 Neotomas Avenue, Santa Rosa, CA 95405  
 707.571.8005

CLARA AVENUE RECONSTRUCTION PROJECT  
 SPECIFICATION NO. 20-08  
 CITY OF UKIAH  
 CALIFORNIA

**CROSS SECTIONS**  
**STA. 17+25 TO STA. 18+25**

PROJECT NUMBER  
 29-4352  
 DRAWING DATE  
 APRIL 2020  
 SHEET NUMBER  
**22 OF 31**

PREPARED UNDER THE DIRECTION OF  
 Heidi E. Utterback 4/23/2020  
 HEIDI E. UTTERBACK, RCE 53723 DATE  
 DESIGNED BY WJK  
 DRAWN BY WJK  
 REVIEWED BY HEU

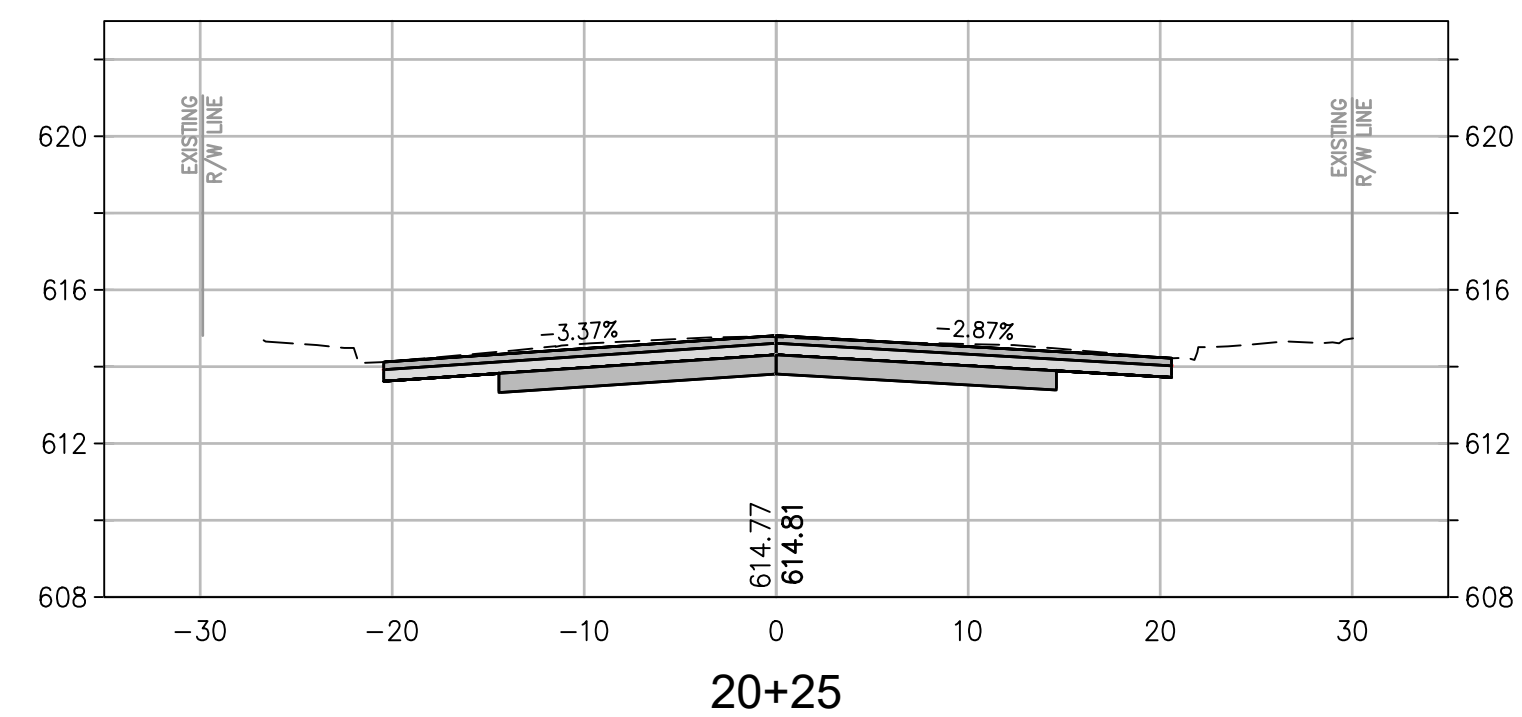
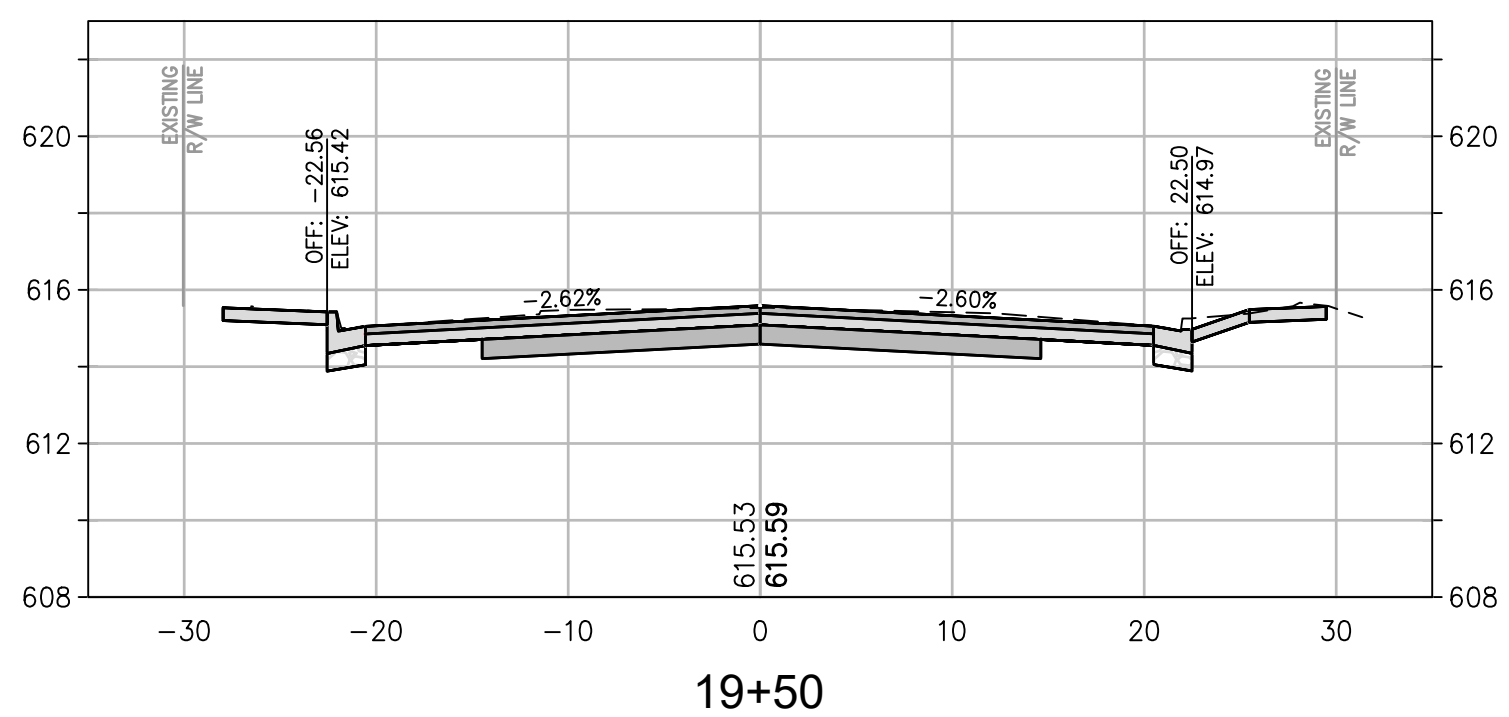
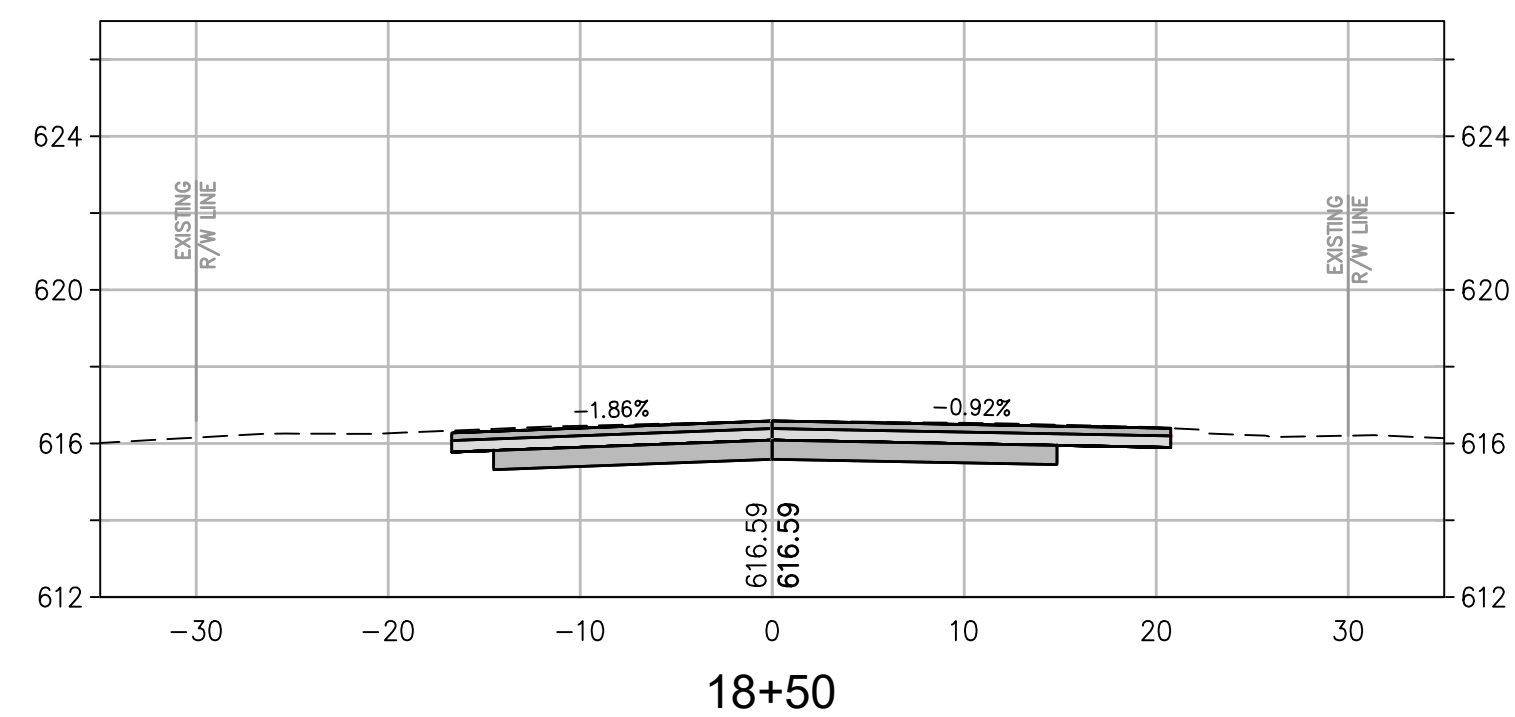
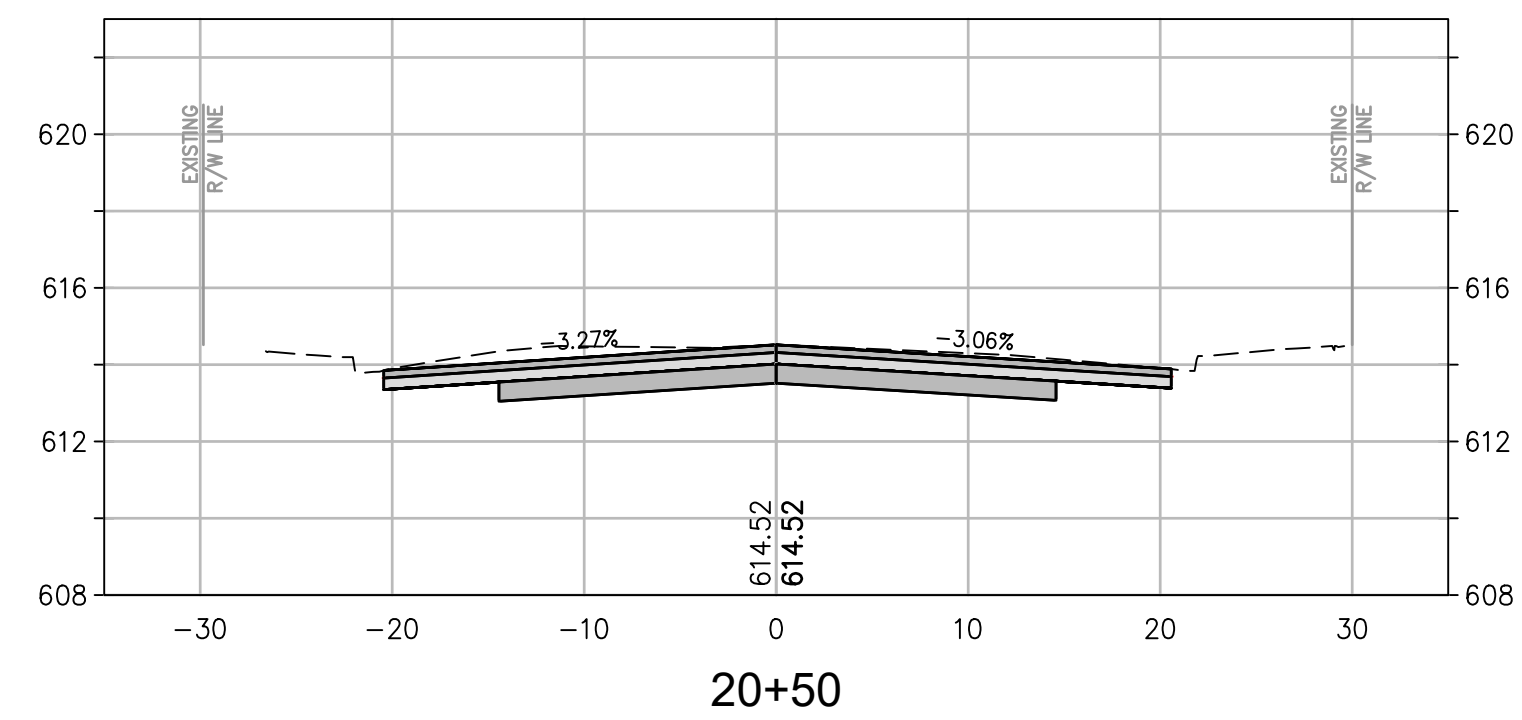
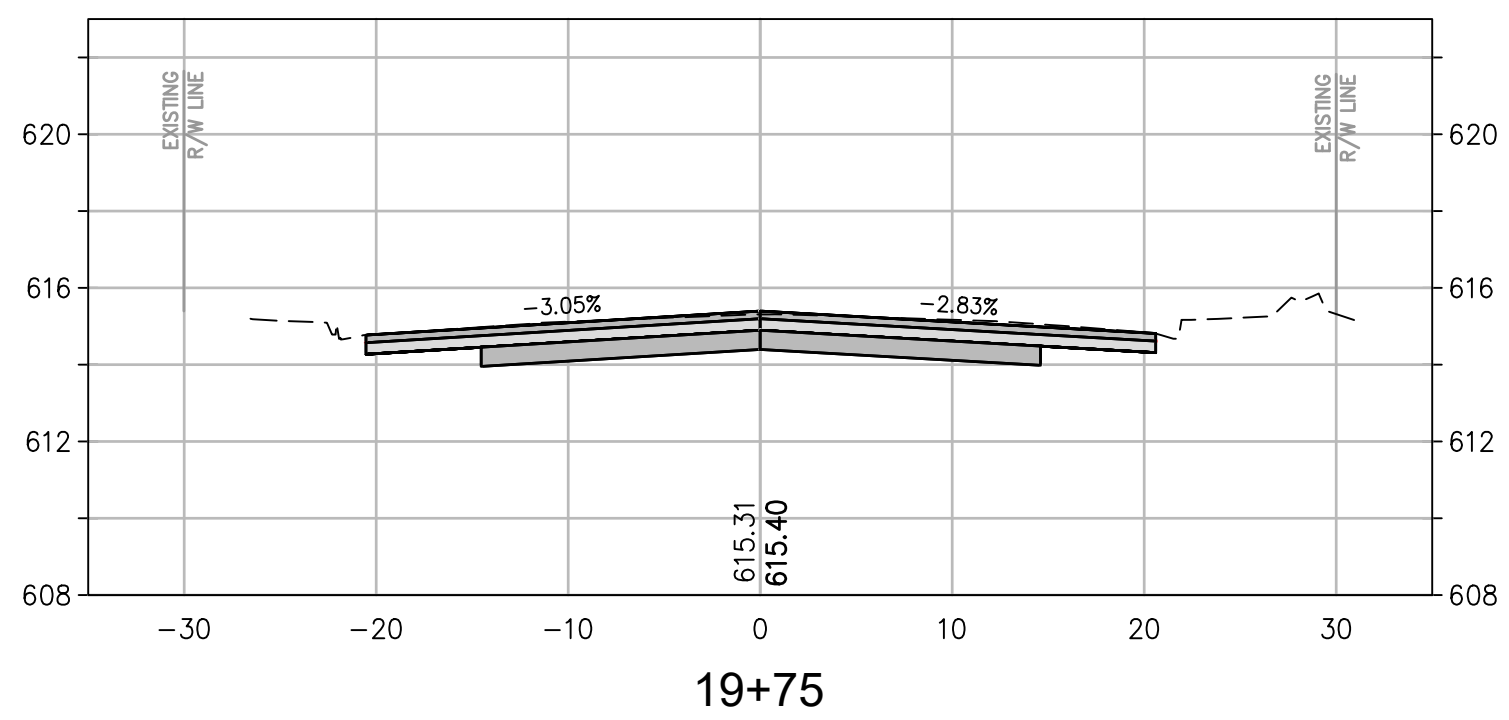
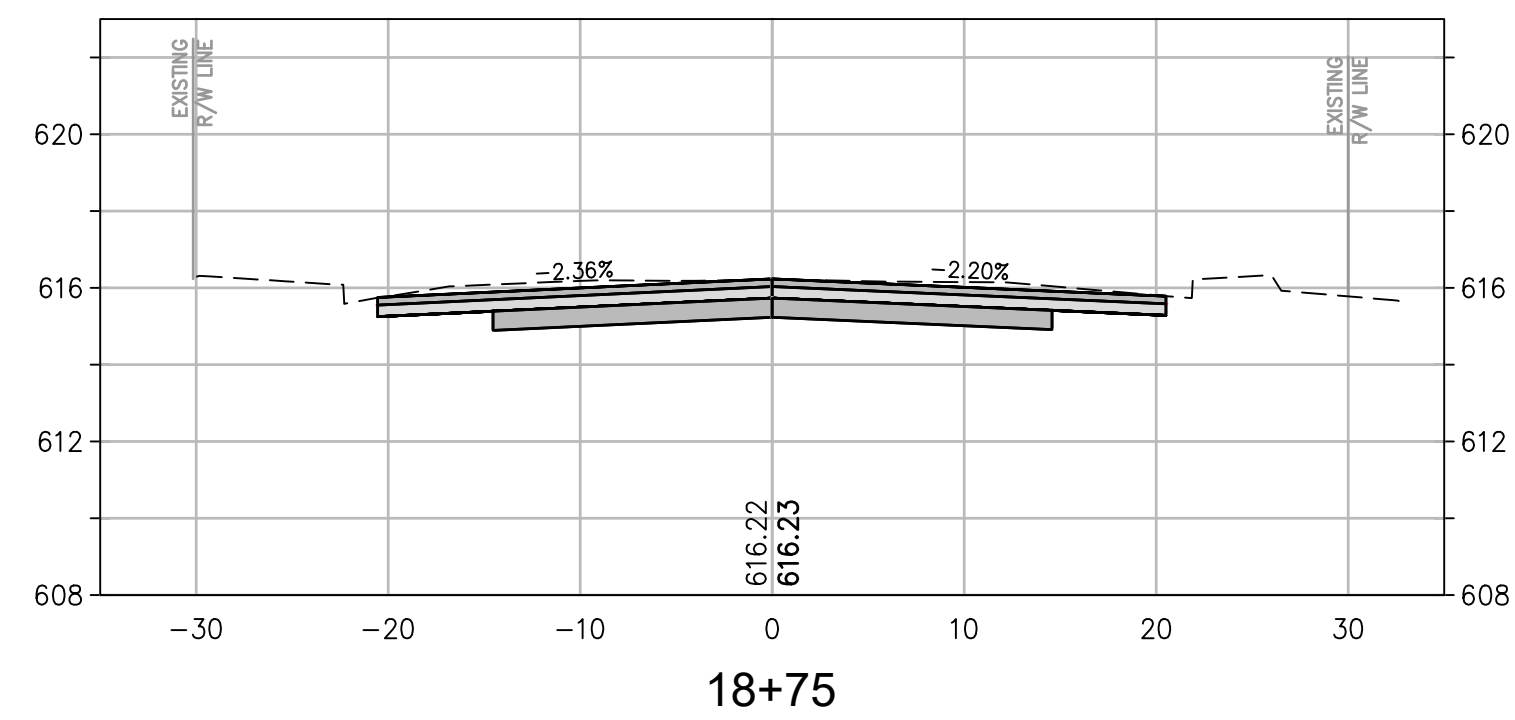
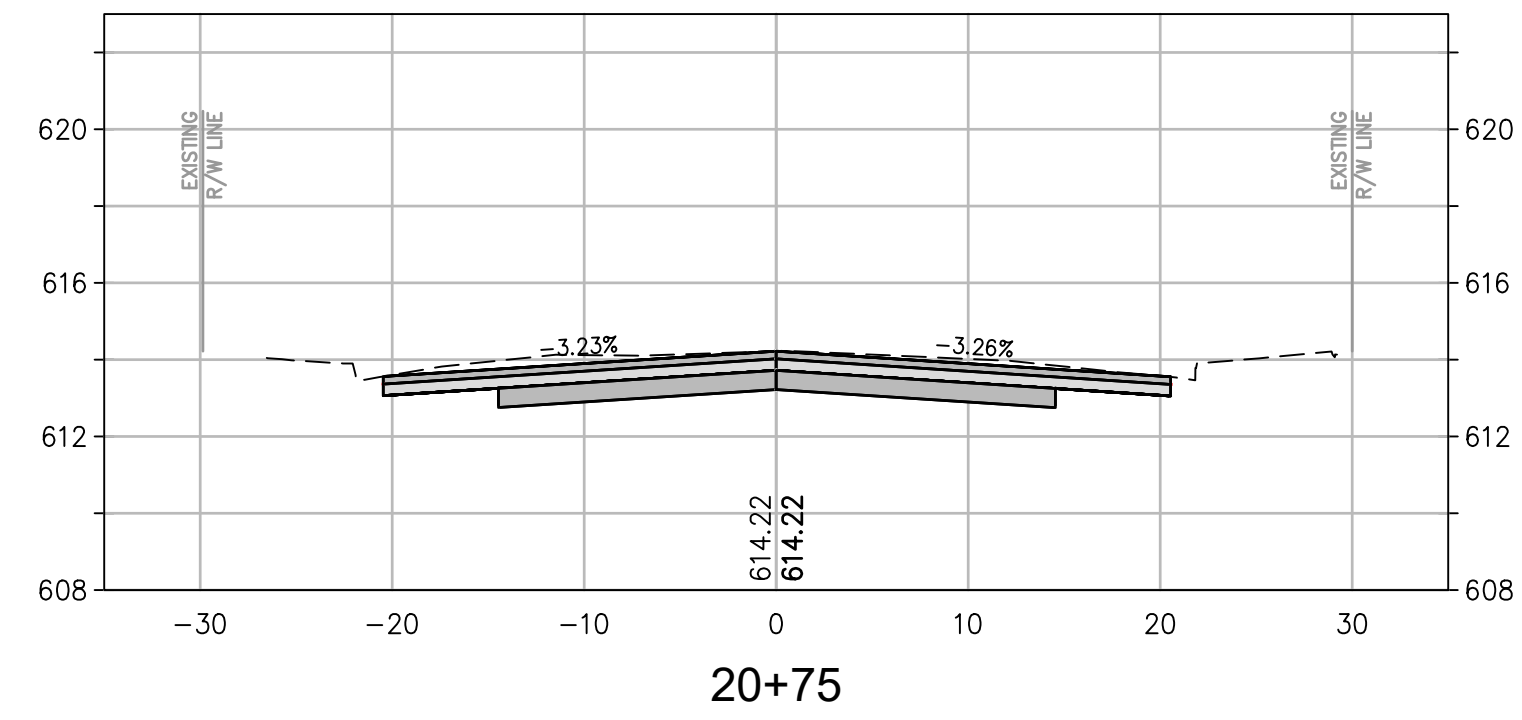
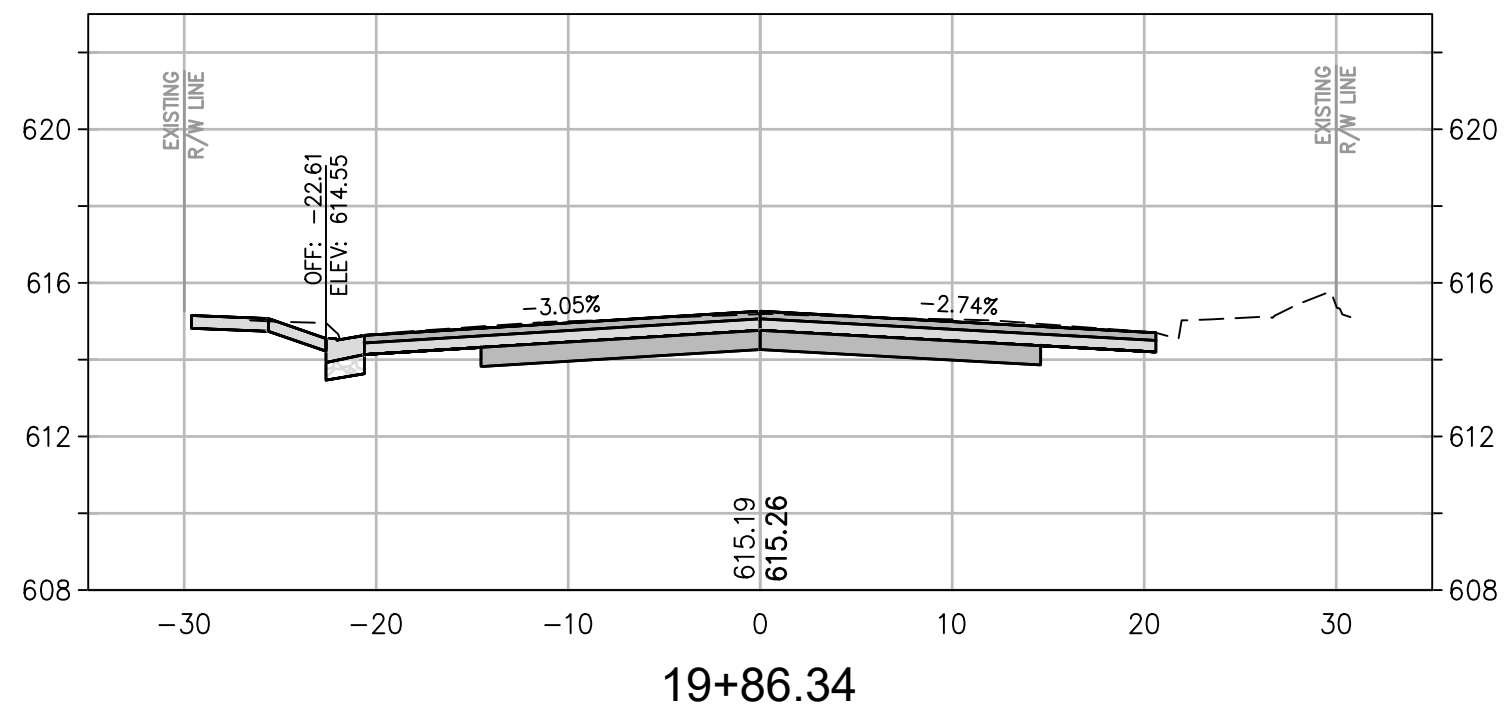
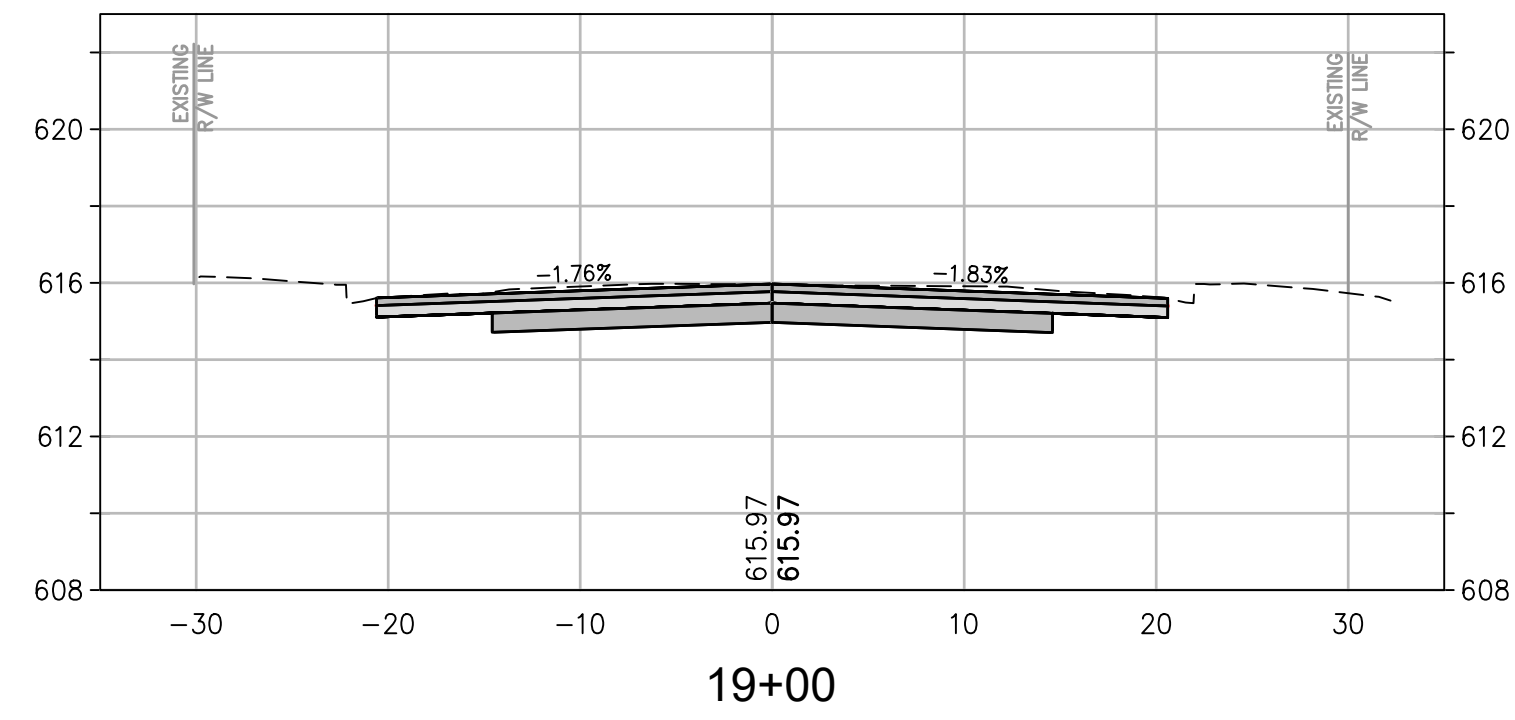
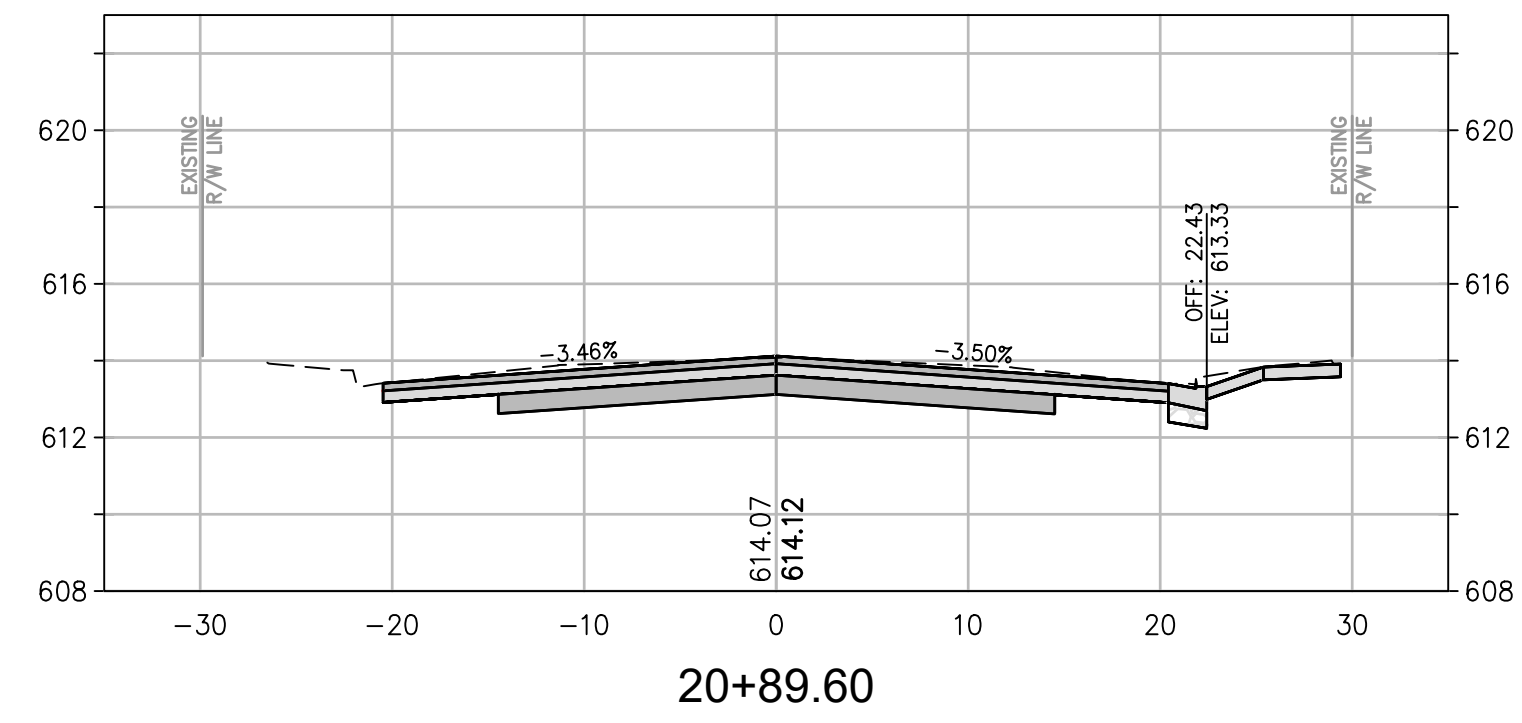
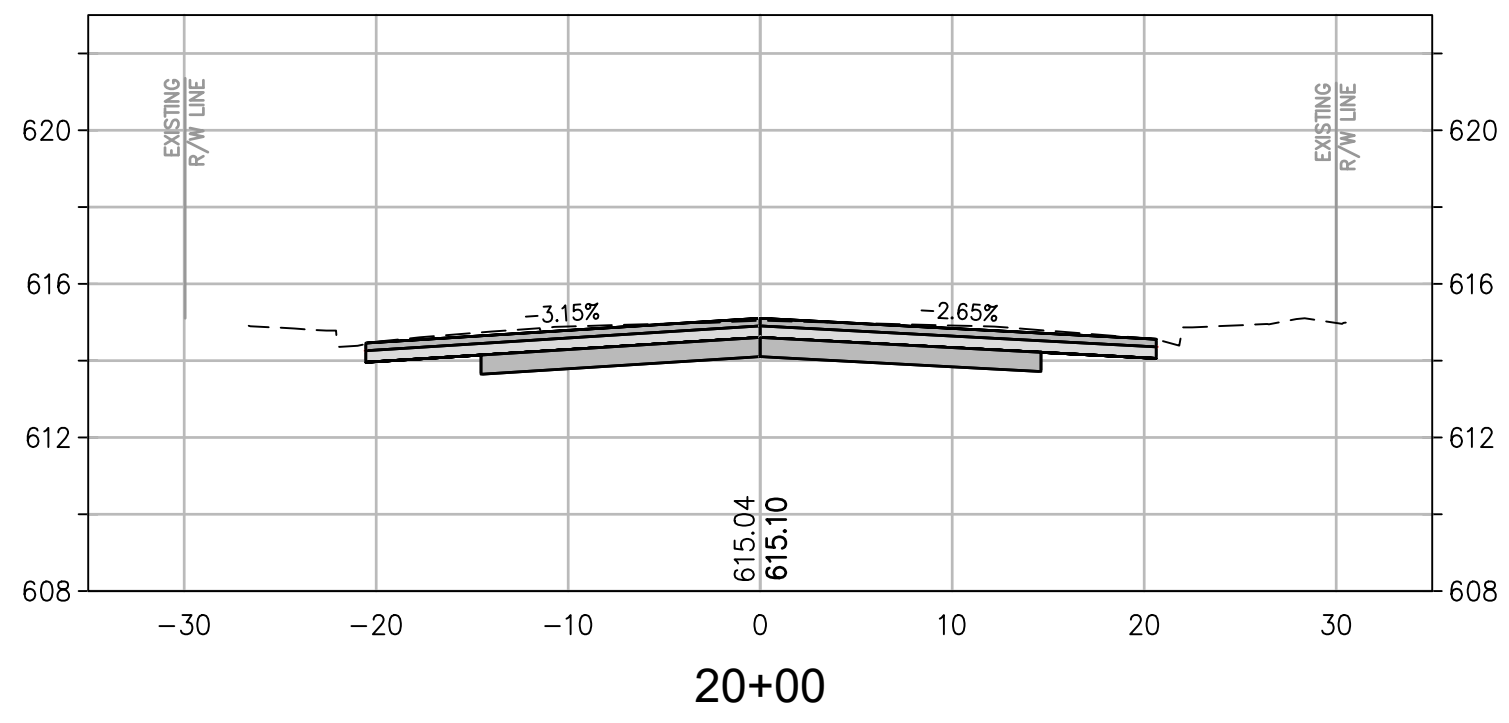
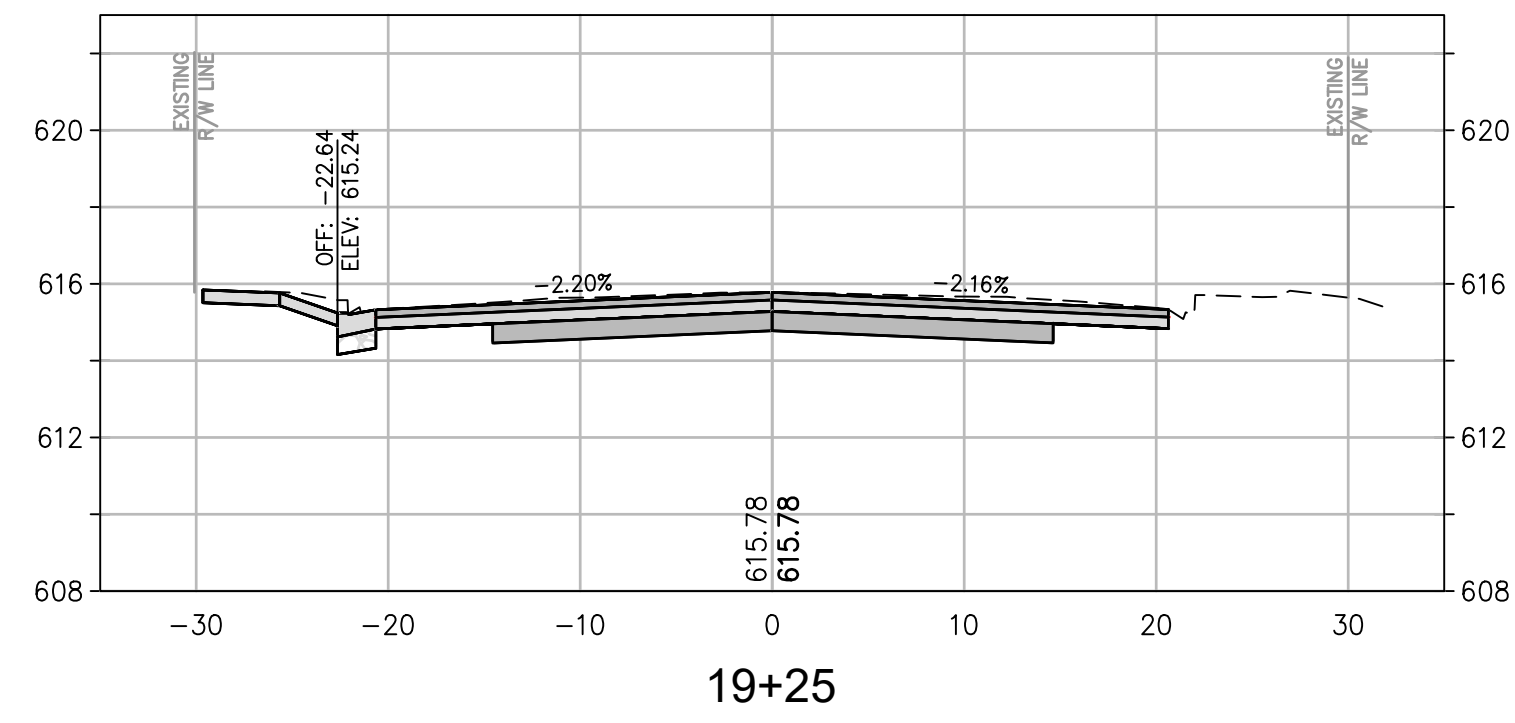


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 images: Heidi.signature=blue.jpg  
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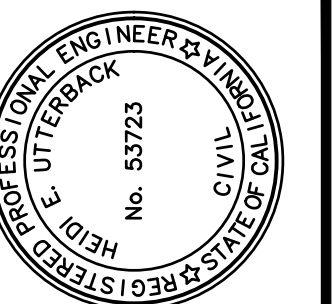
FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

3  
2  
1

ORIGINAL PLOT DATE:



CROSS SECTION SCALES  
 HORIZ: 1" = 10'  
 VERT: 1" = 5'



PREPARED UNDER THE DIRECTION OF

HEIDI E. UTTERBACK 4/23/2020  
 HEIDI E. UTTERBACK, RCE 53723 DATE

DESIGNED BY WJK  
 DRAWN BY WJK  
 REVIEWED BY HEU



**Coastland Civil Engineering, Inc.**  
 1400 Neotomas Avenue, Santa Rosa, CA 95405  
 707.571.8003 Fax

CALIFORNIA

CLARA AVENUE RECONSTRUCTION PROJECT  
 SPECIFICATION NO. 20-08

**CROSS SECTIONS**  
**STA. 18+50 TO STA. 20+89.64**

CITY OF UKIAH

PROJECT NUMBER  
 29-4352

DRAWING DATE  
 APRIL 2020

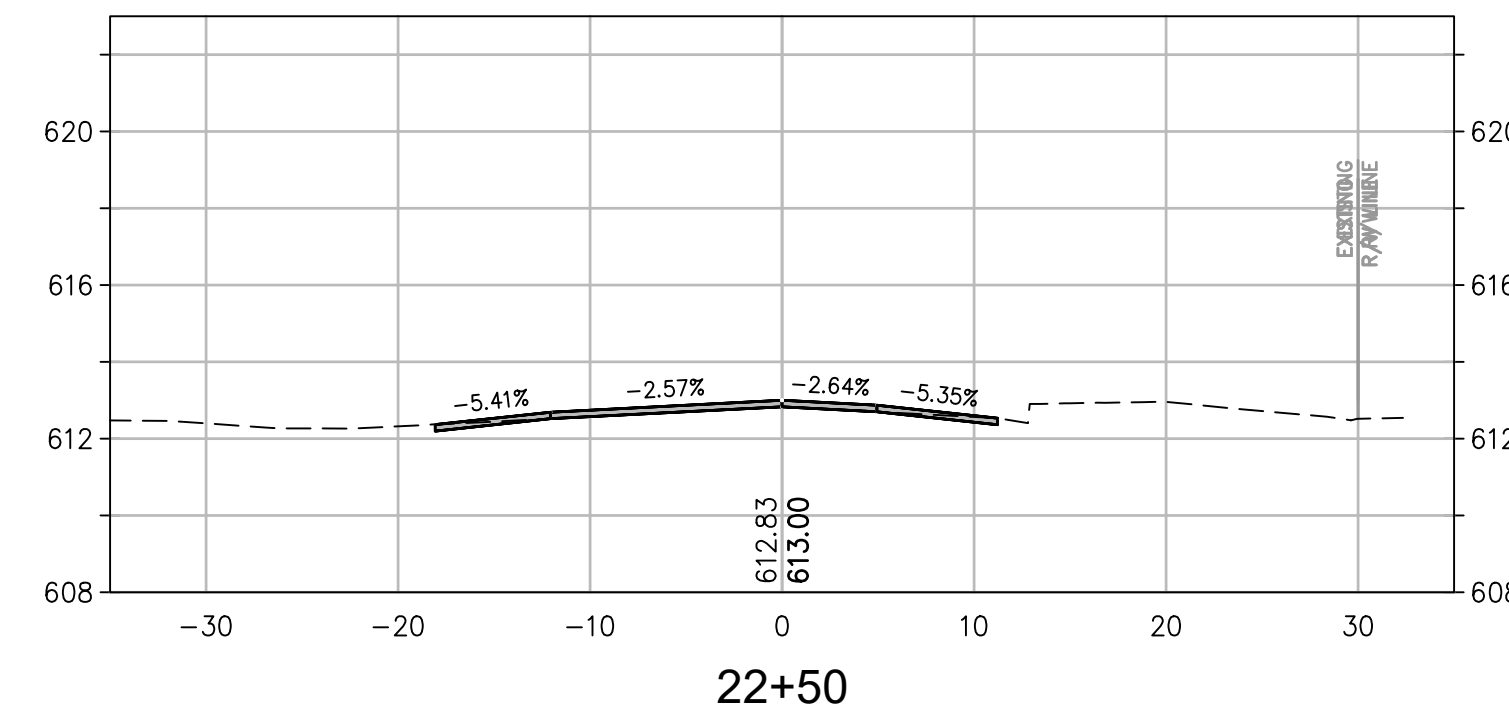
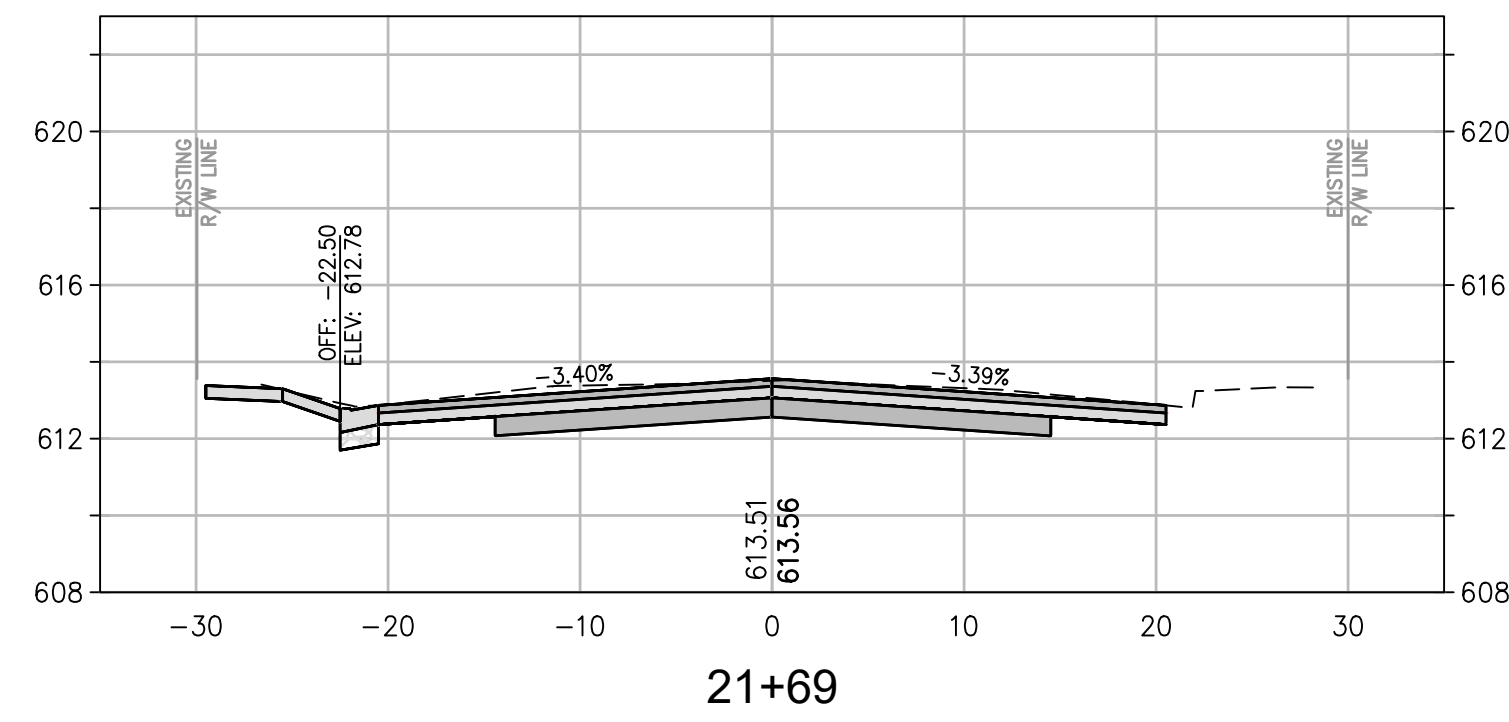
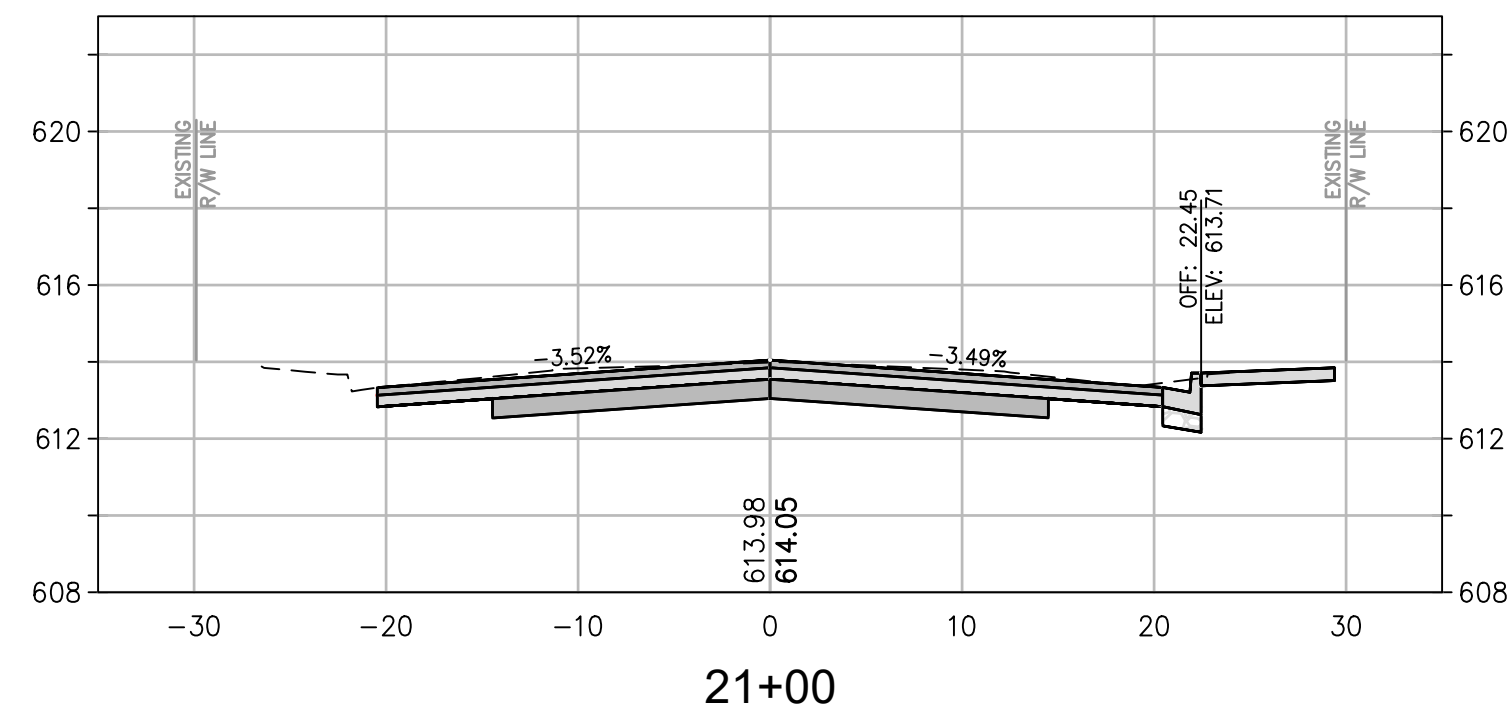
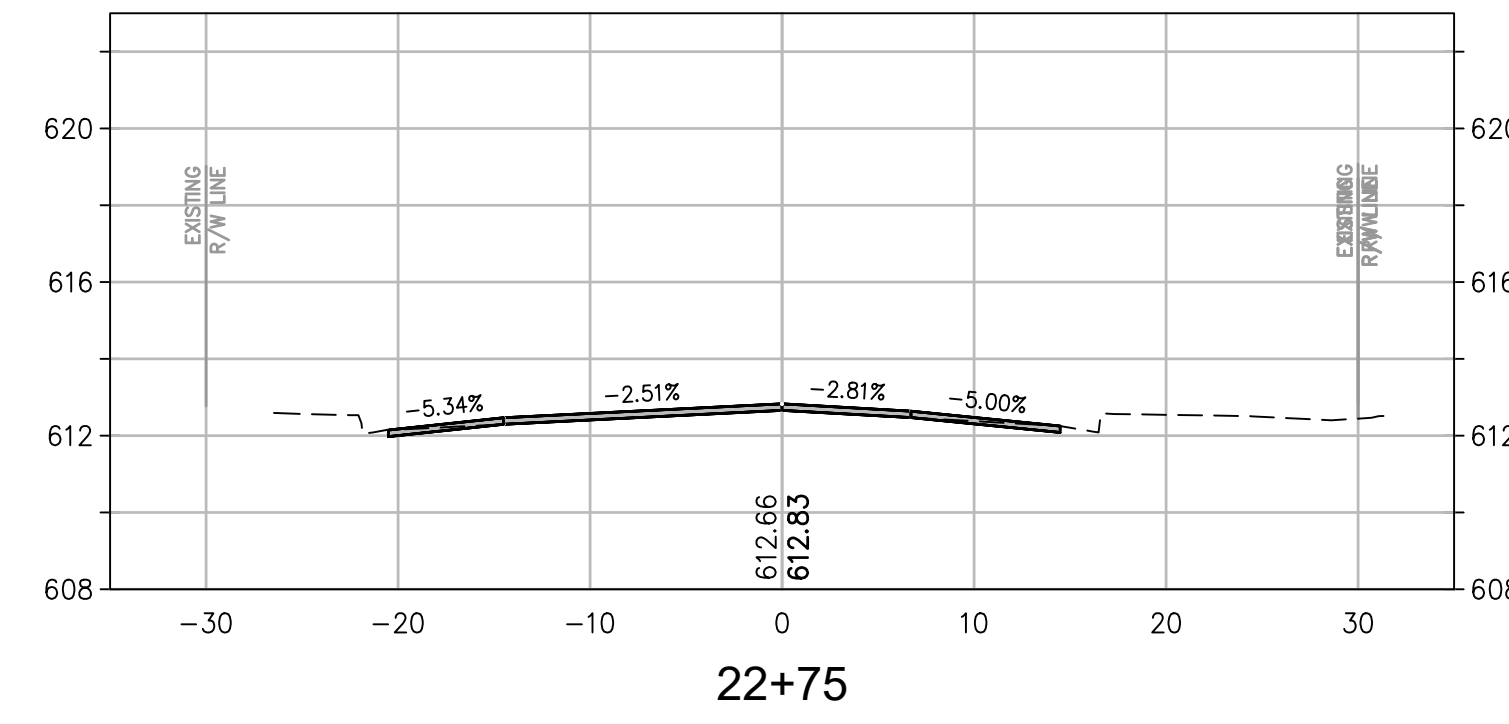
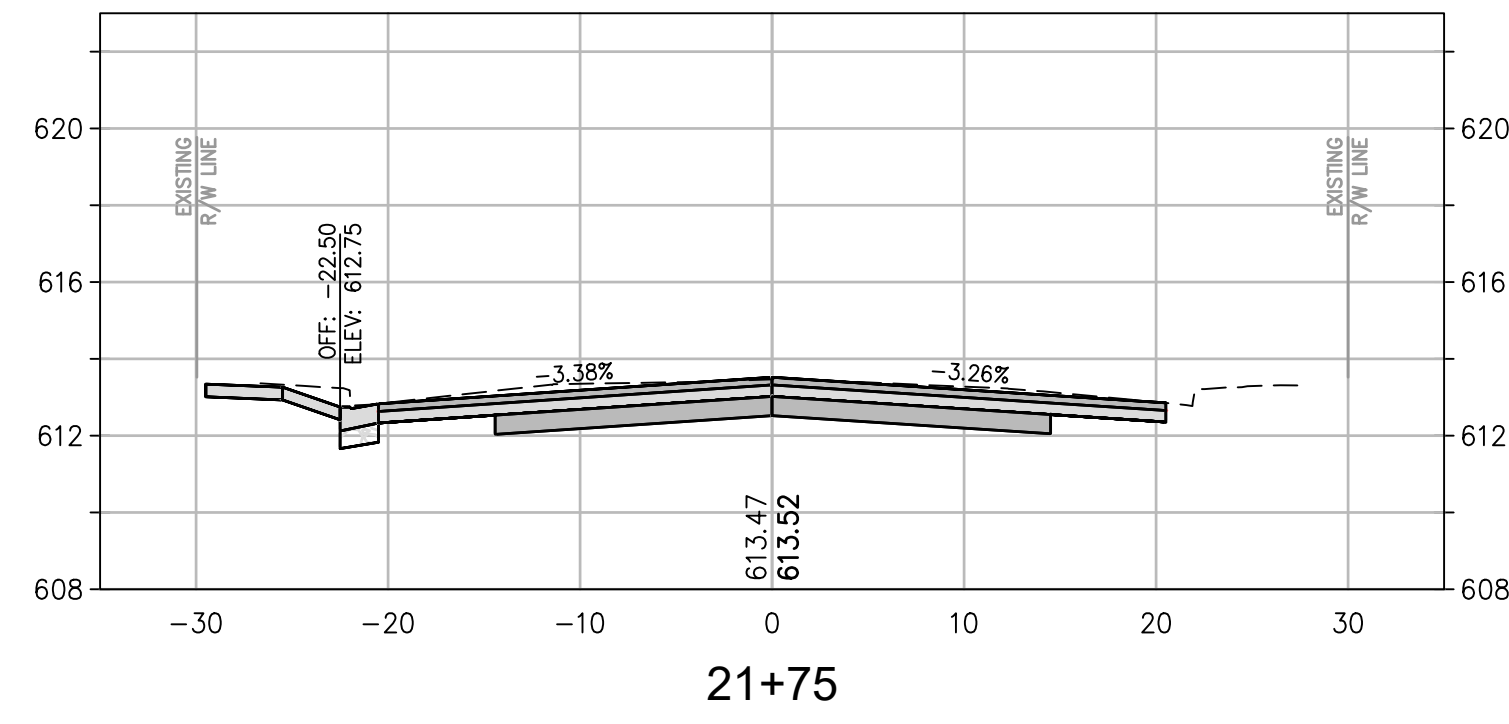
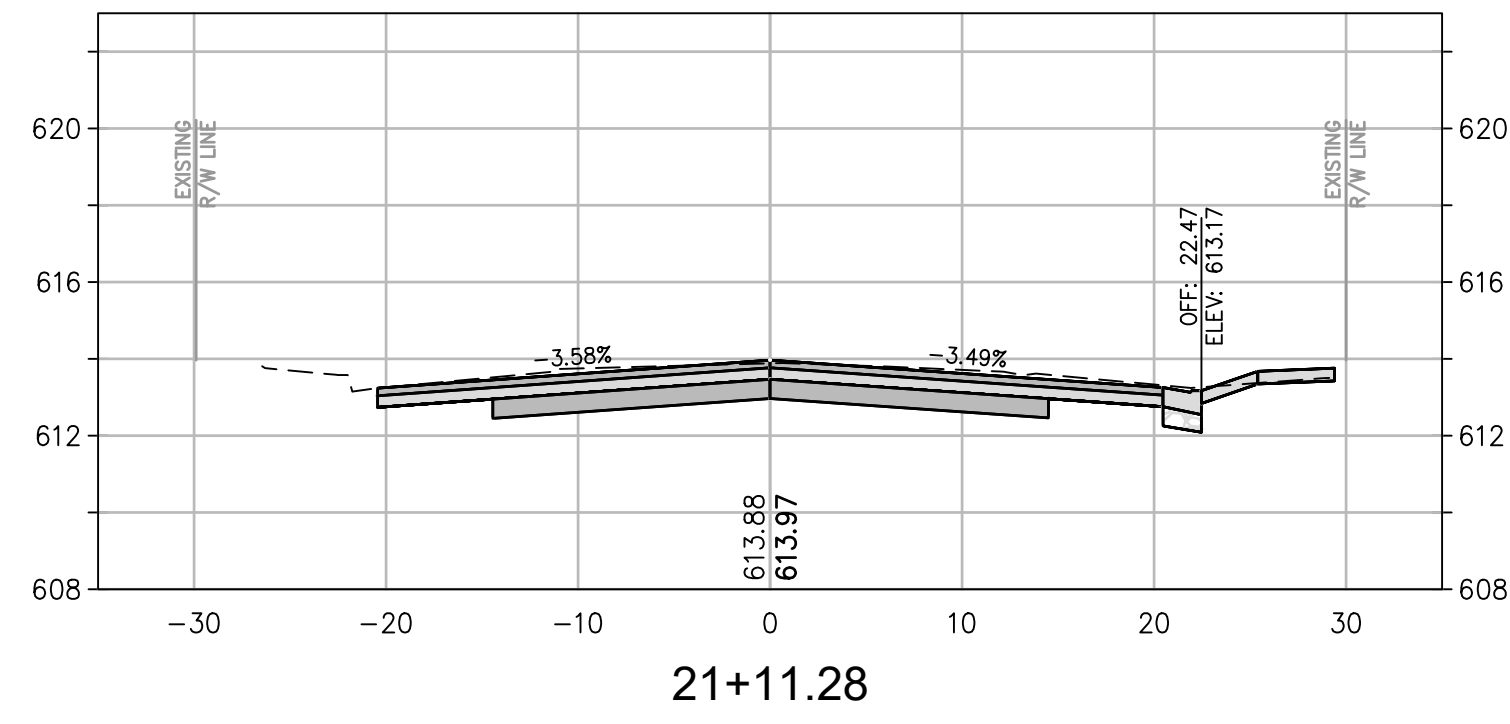
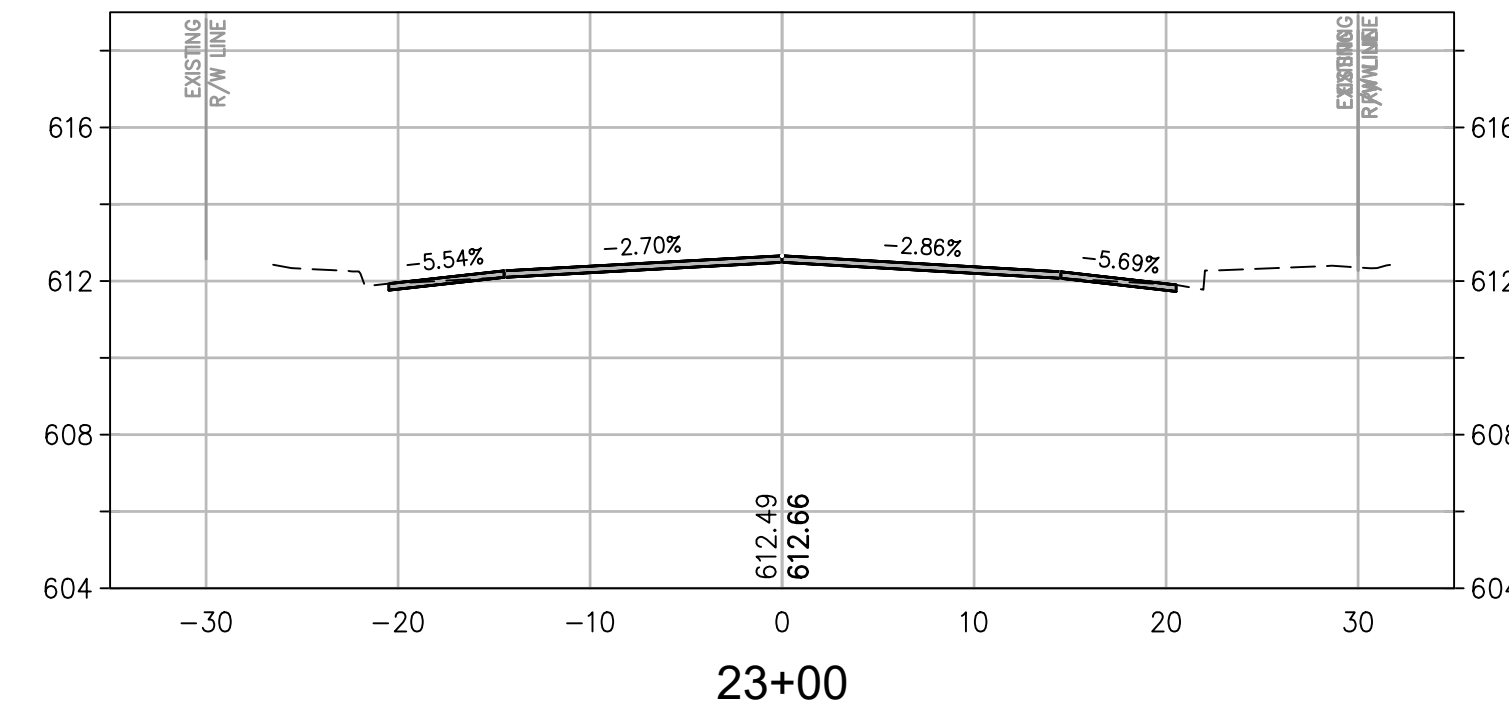
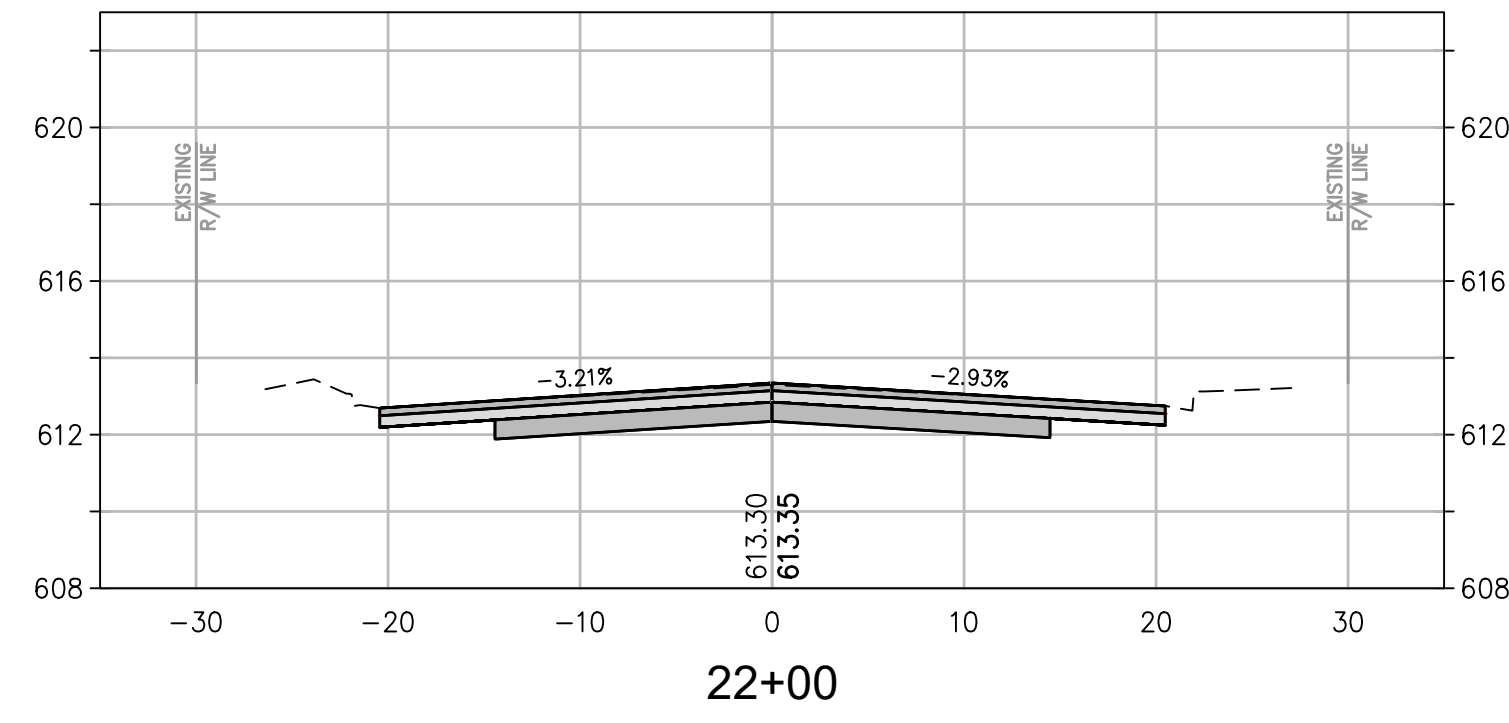
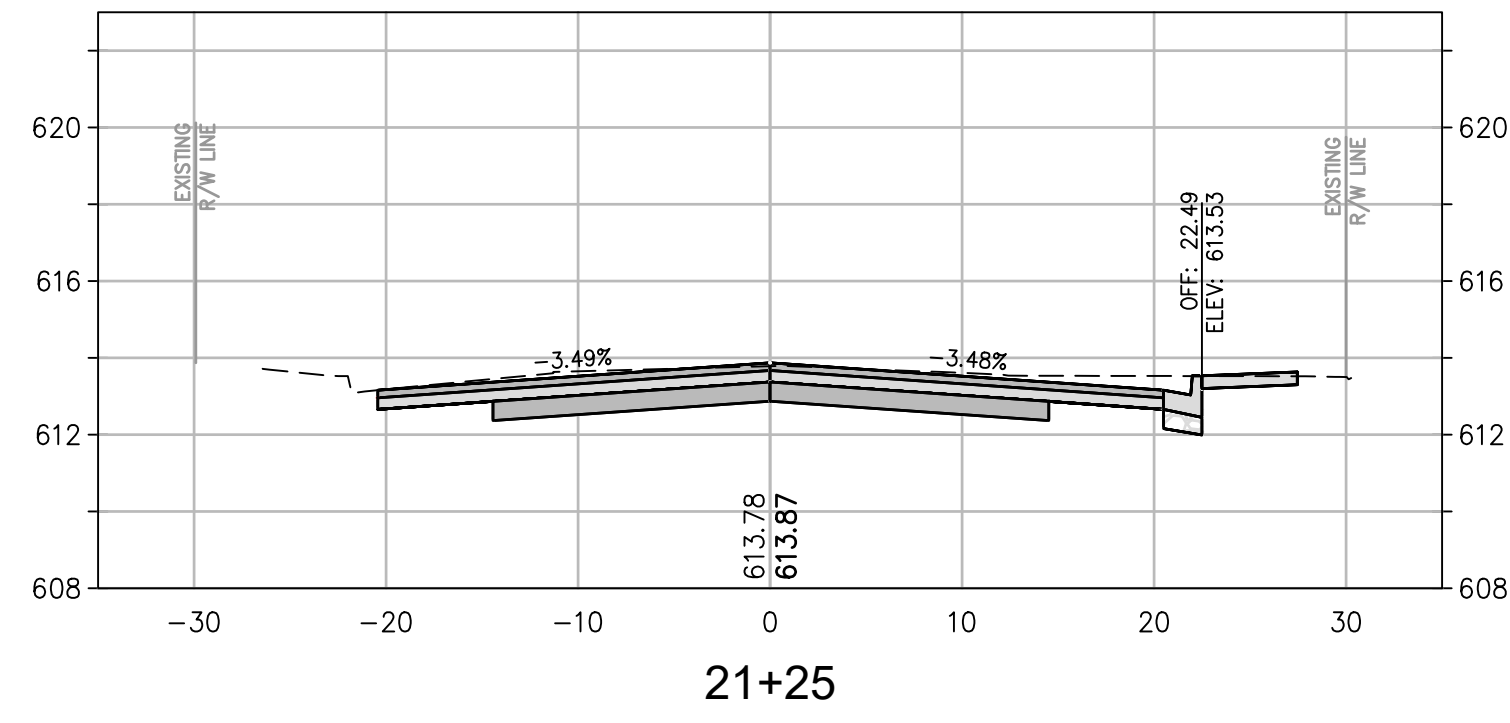
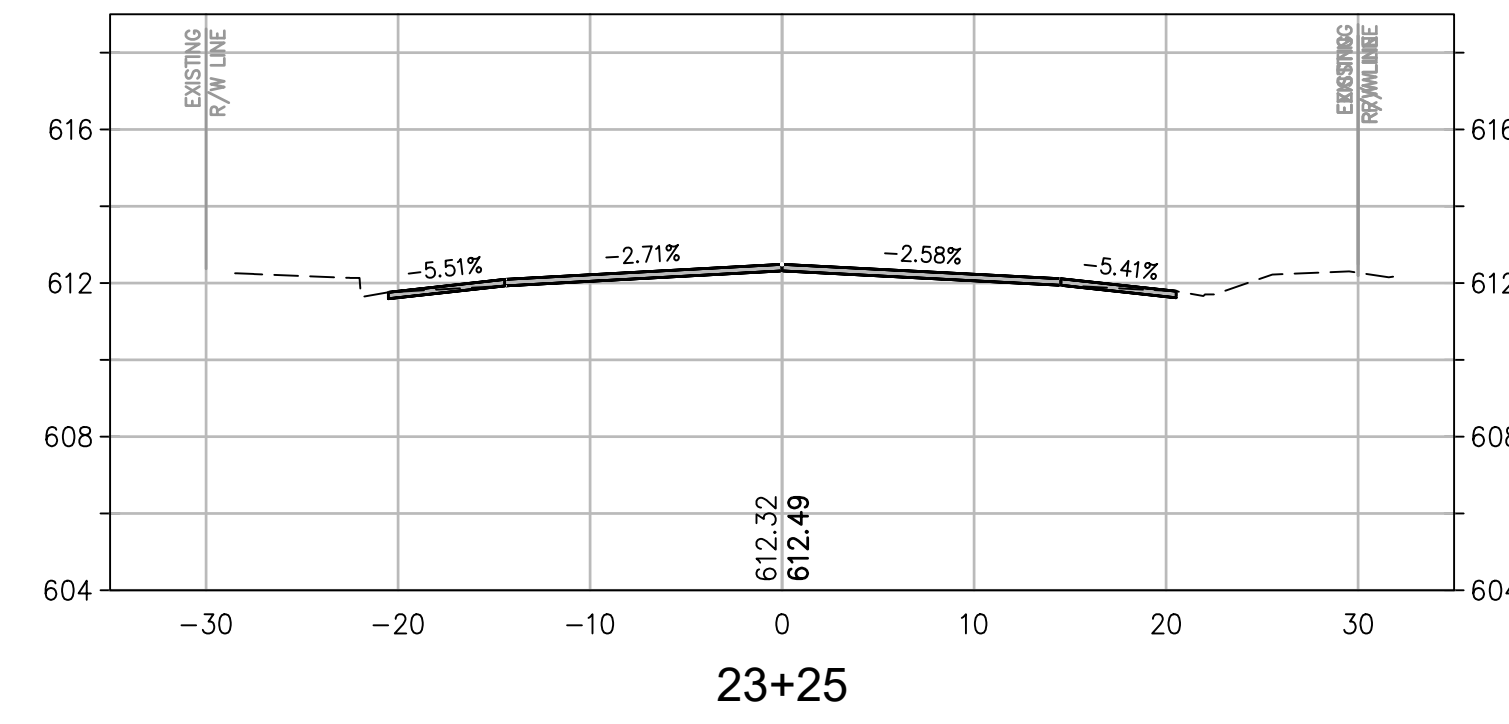
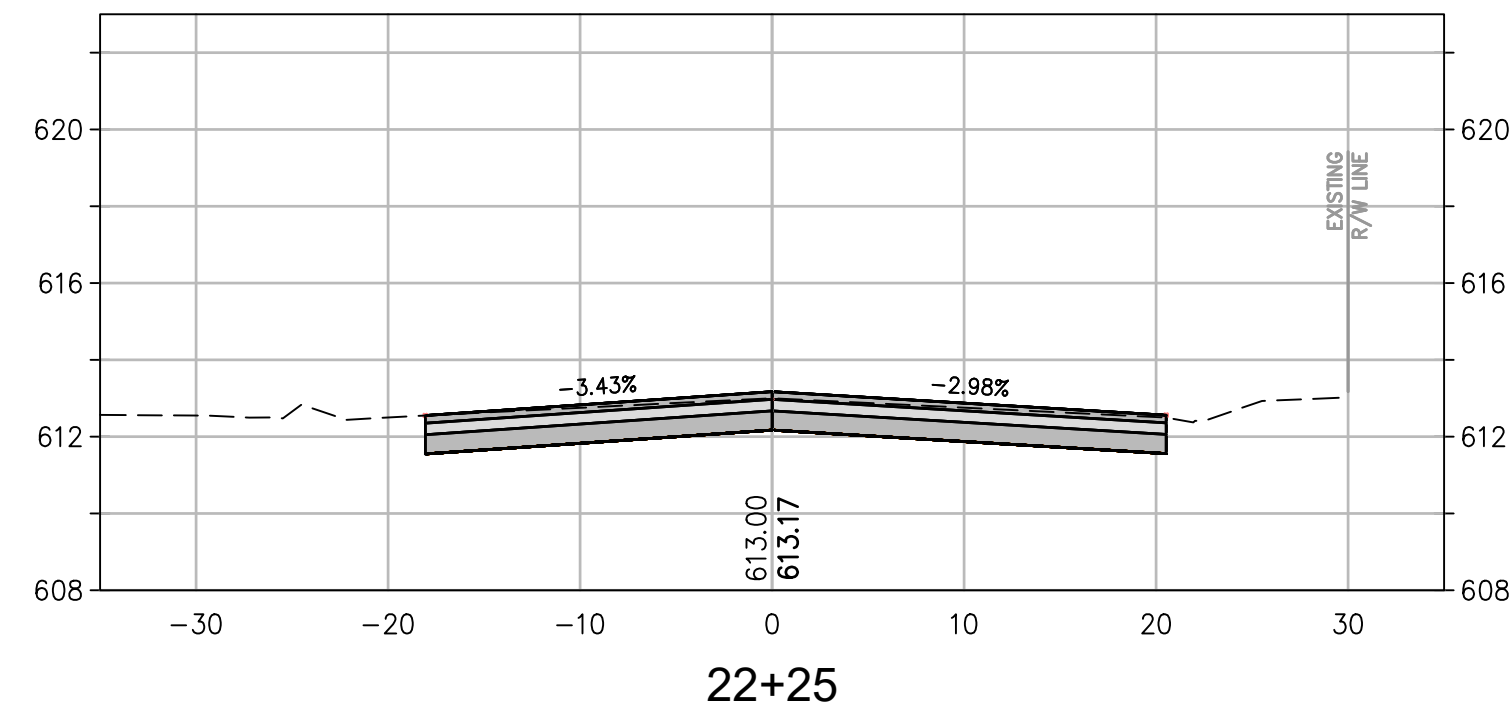
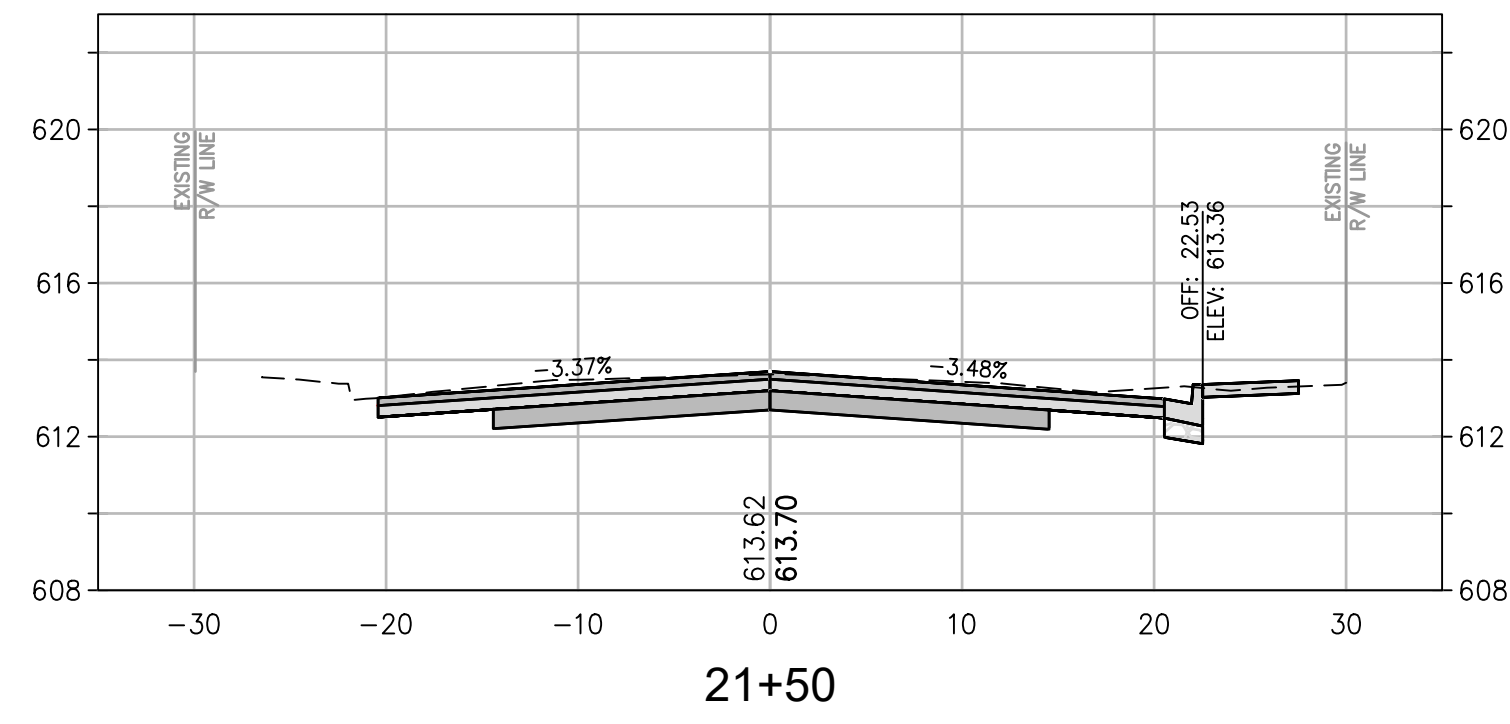
SHEET NUMBER  
**23** OF **31**

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FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

3  
2  
1

ORIGINAL PLOT DATE:



CROSS SECTION SCALES  
 HORIZ: 1" = 10'  
 VERT: 1" = 5'



**Coastland Civil Engineering, Inc.**  
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CALIFORNIA

CLARA AVENUE RECONSTRUCTION PROJECT  
 SPECIFICATION NO. 20-08

**CROSS SECTIONS**  
**STA. 21+00 TO STA. 23+25**

CITY OF UKIAH

PROJECT NUMBER  
 29-4352

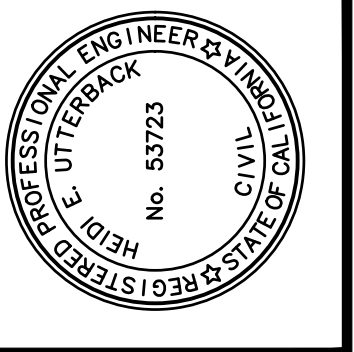
DRAWING DATE  
 APRIL 2020

SHEET NUMBER  
**24** OF **31**

PREPARED UNDER THE DIRECTION OF

HEIDI E. UTTERBACK 4/23/2020  
 HEIDI E. UTTERBACK, RCE 53723 DATE

DESIGNED BY WJK  
 DRAWN BY WJK  
 REVIEWED BY HEU





Xrefs: CCE-ENGINEERS STAMPS-PLAN.dwg; 294352-draw\_spr-RIP2.dwg; 294352-draw\_RR-RAMP-RIP2.dwg  
 images: Heidi.signature=blue.jpg  
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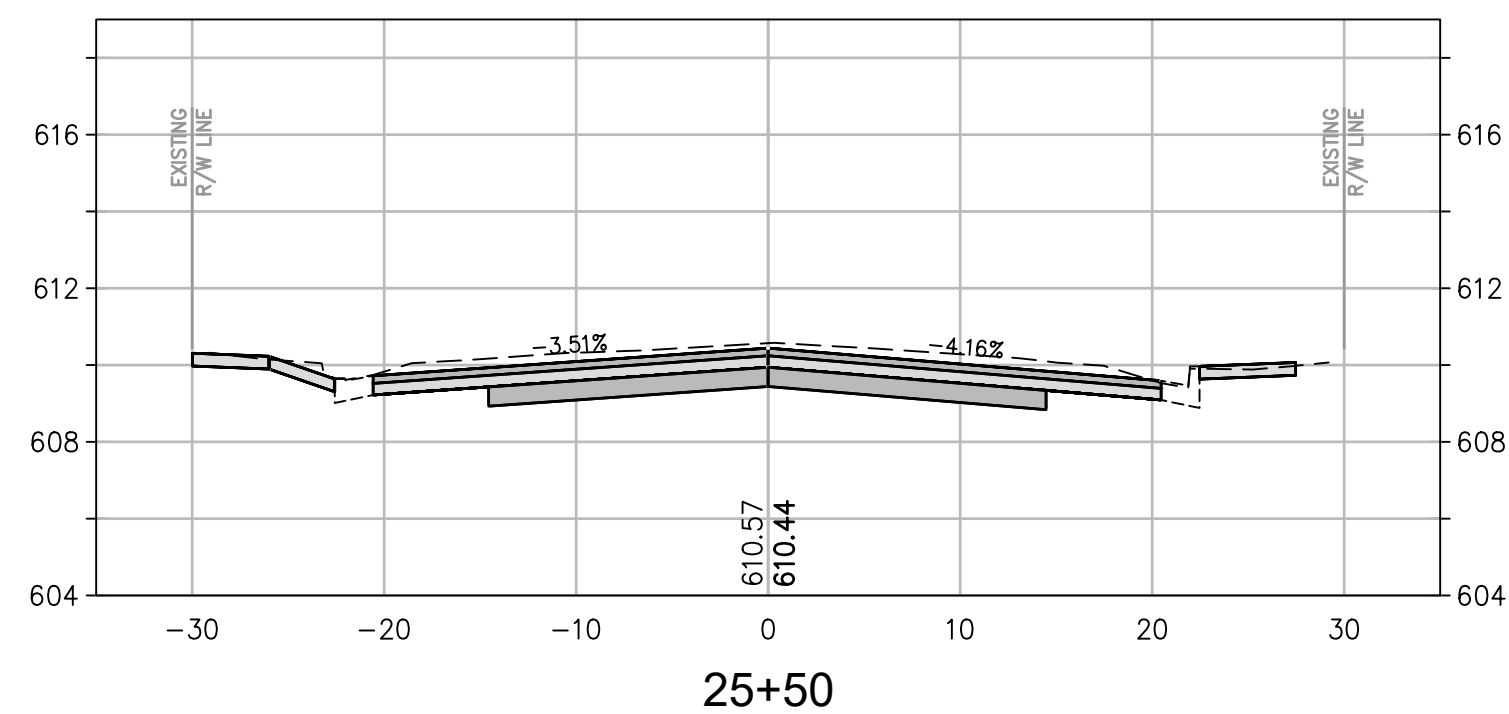
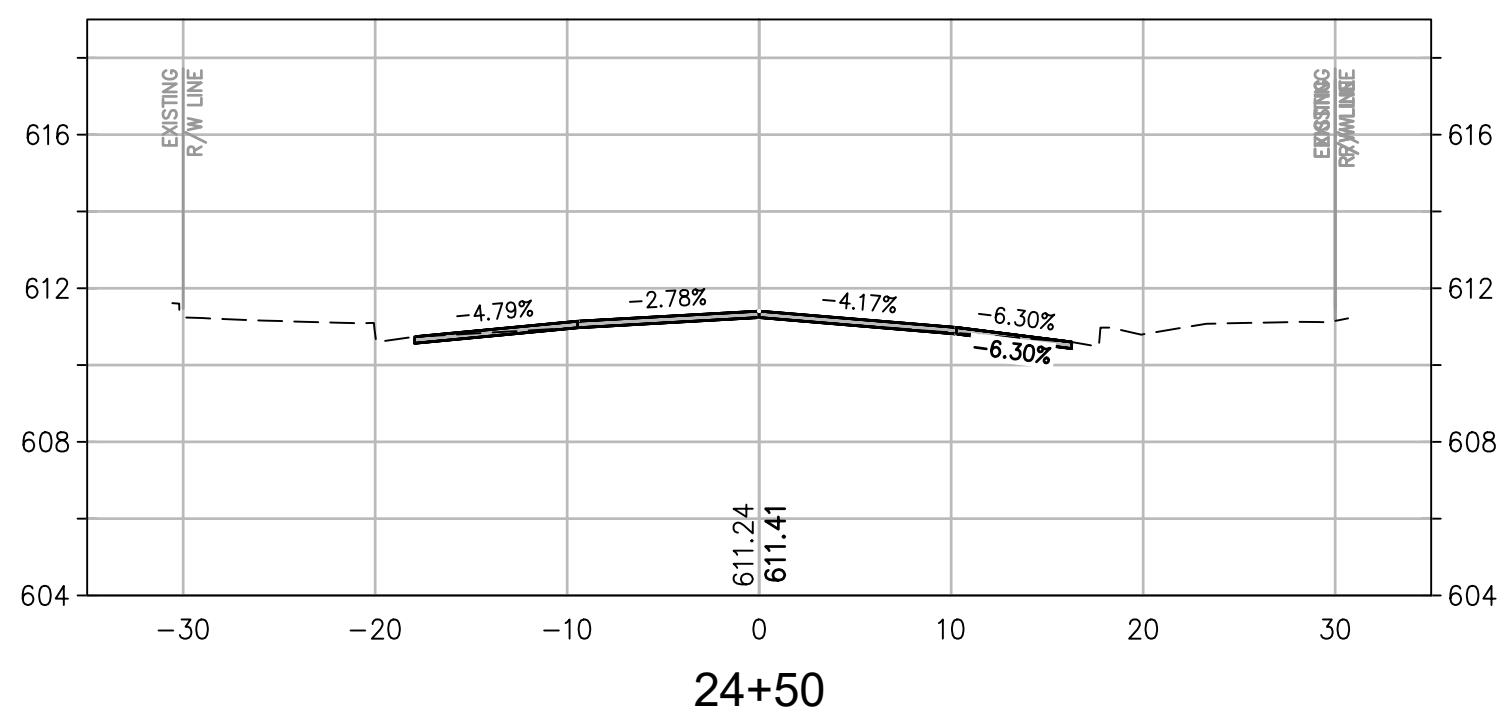
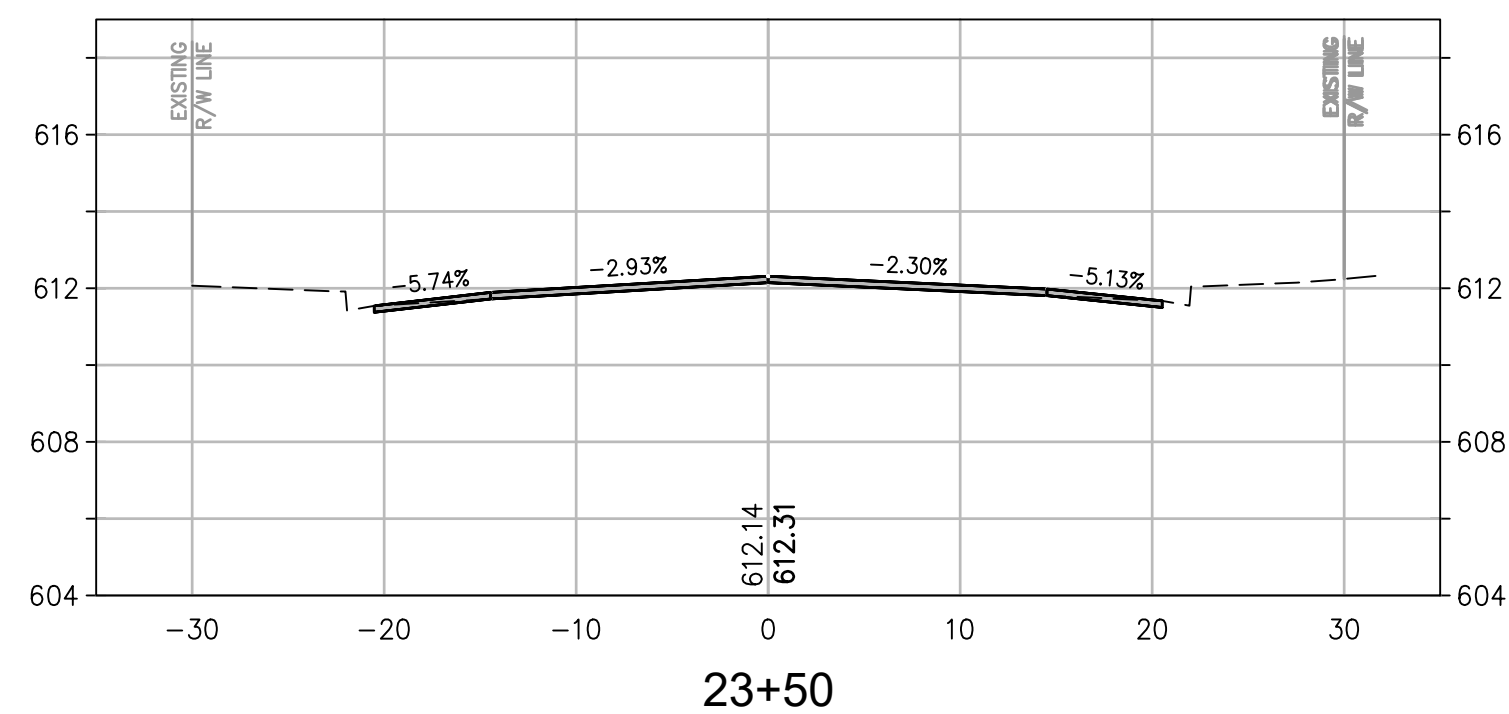
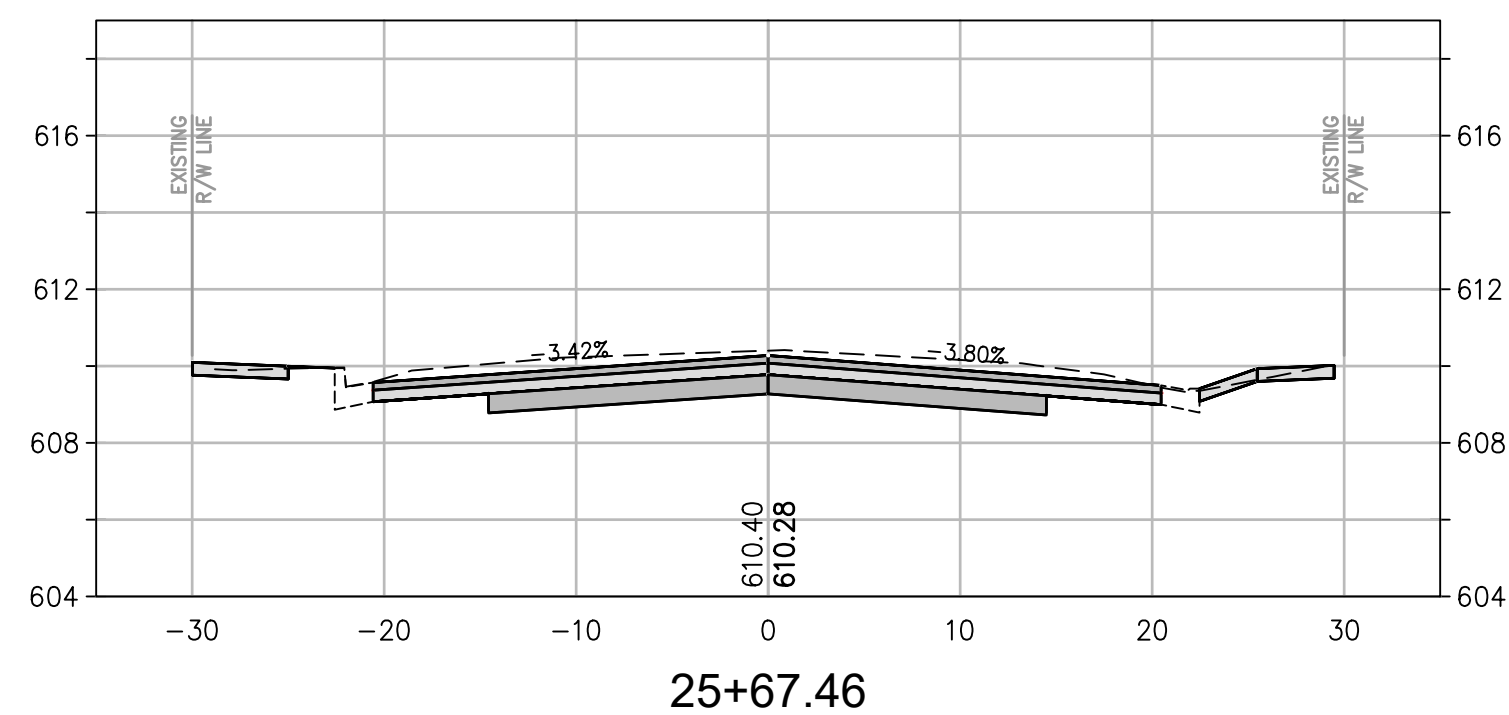
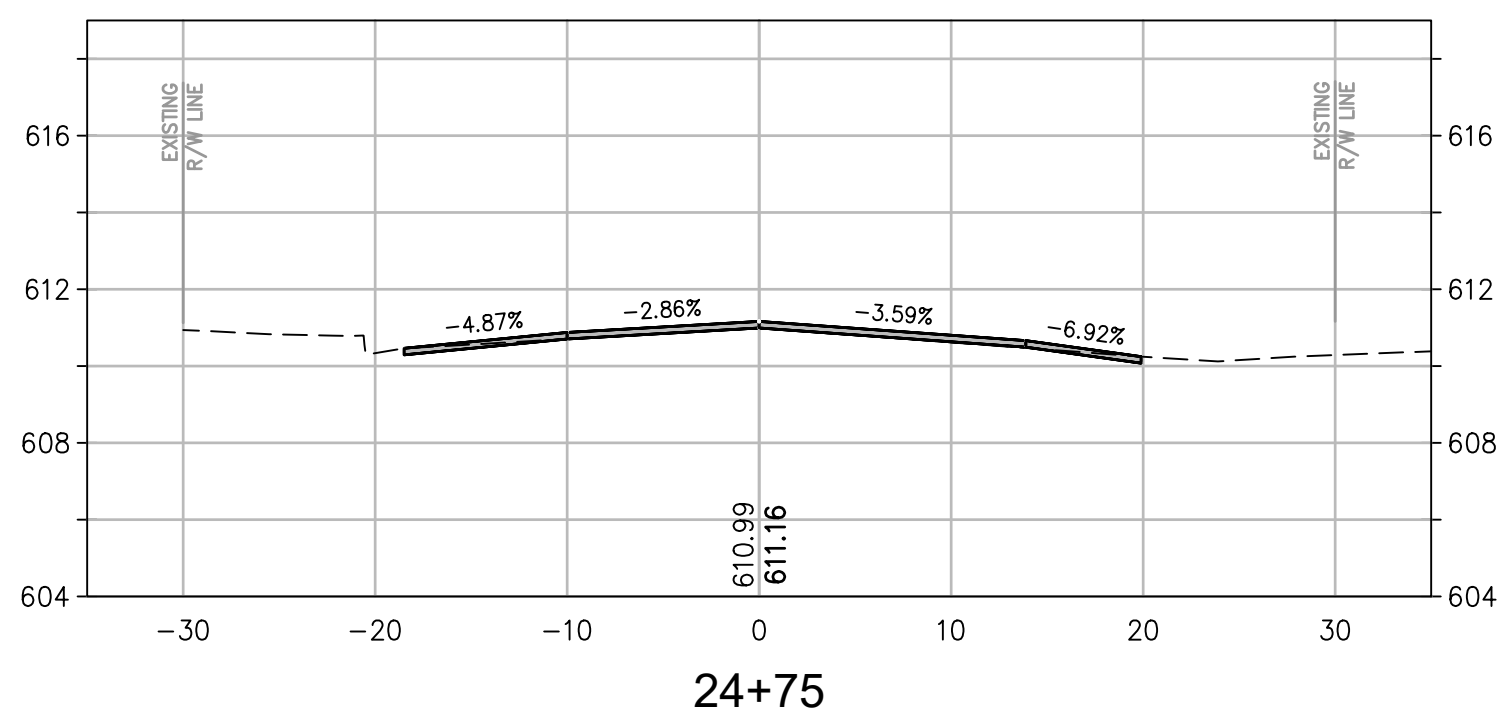
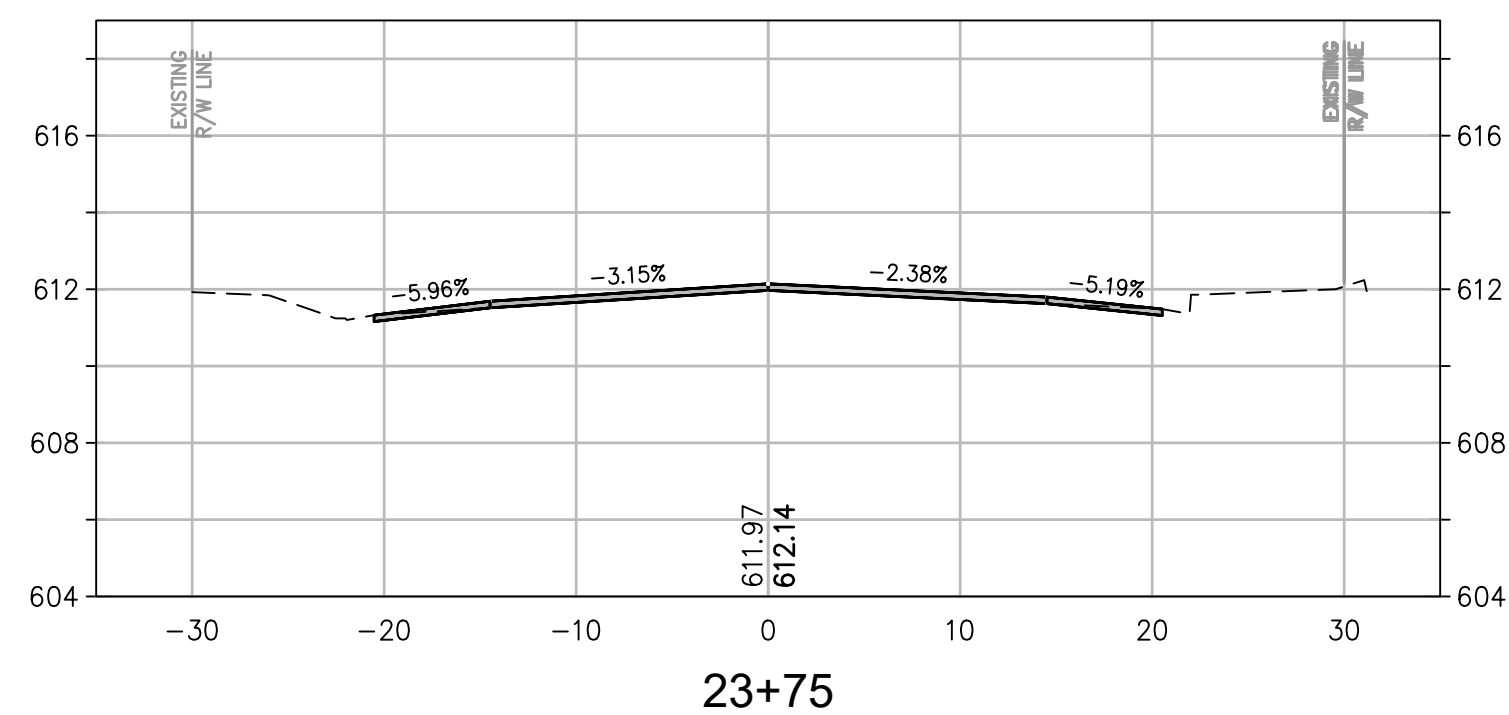
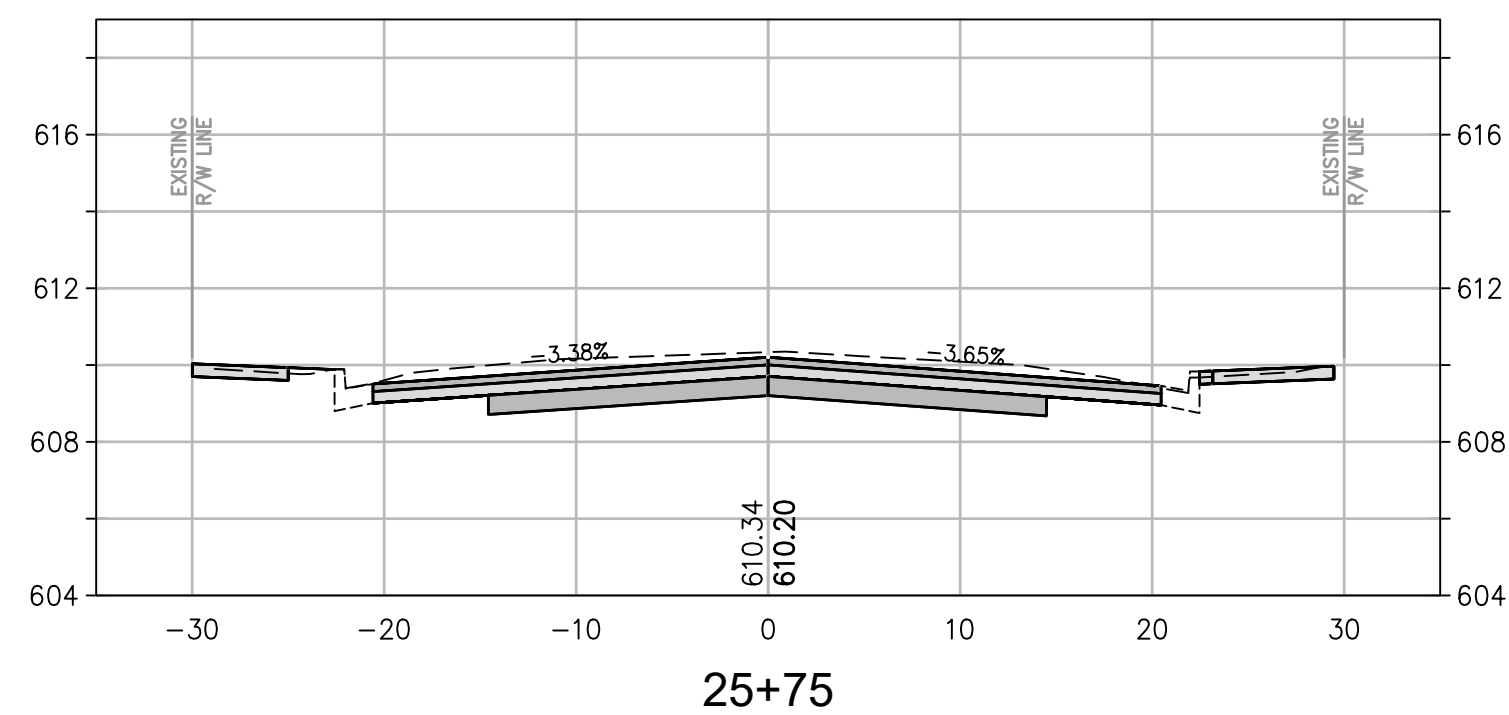
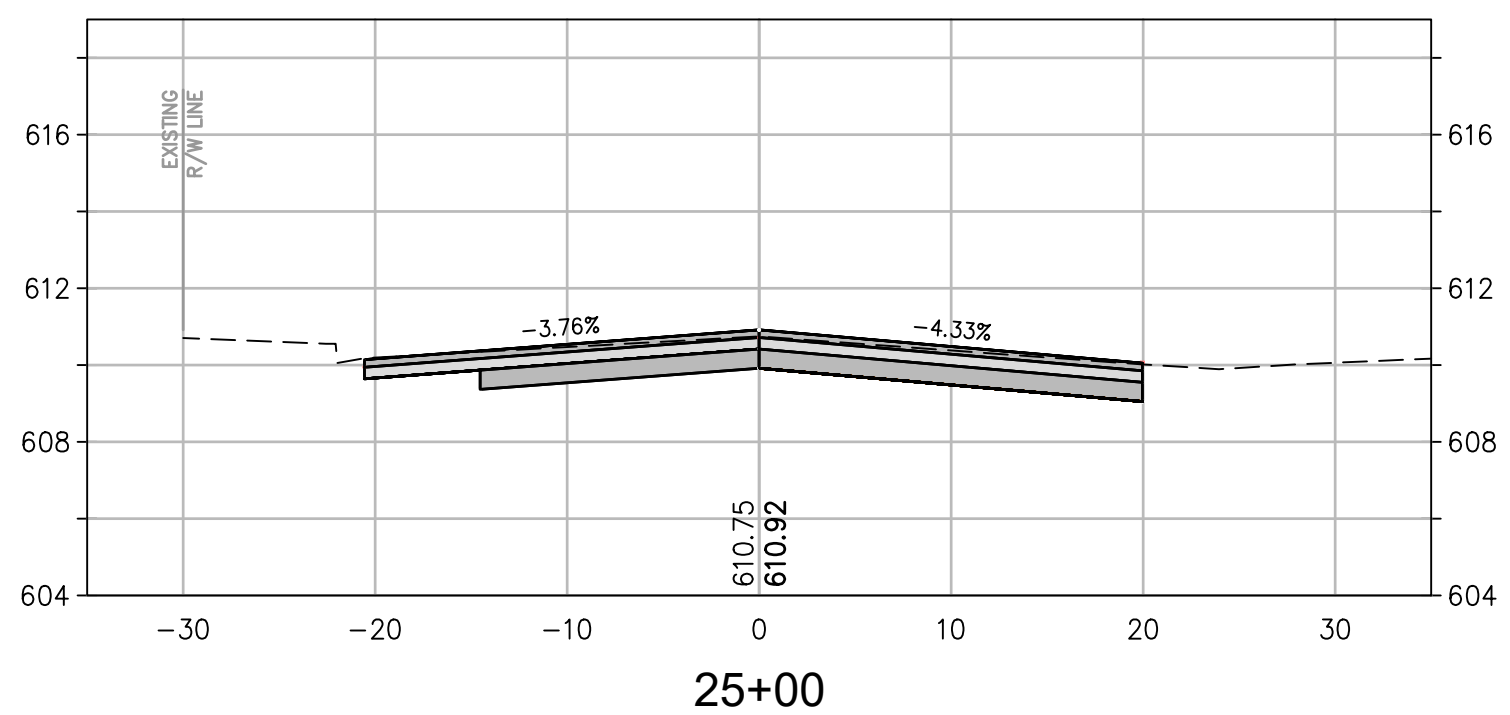
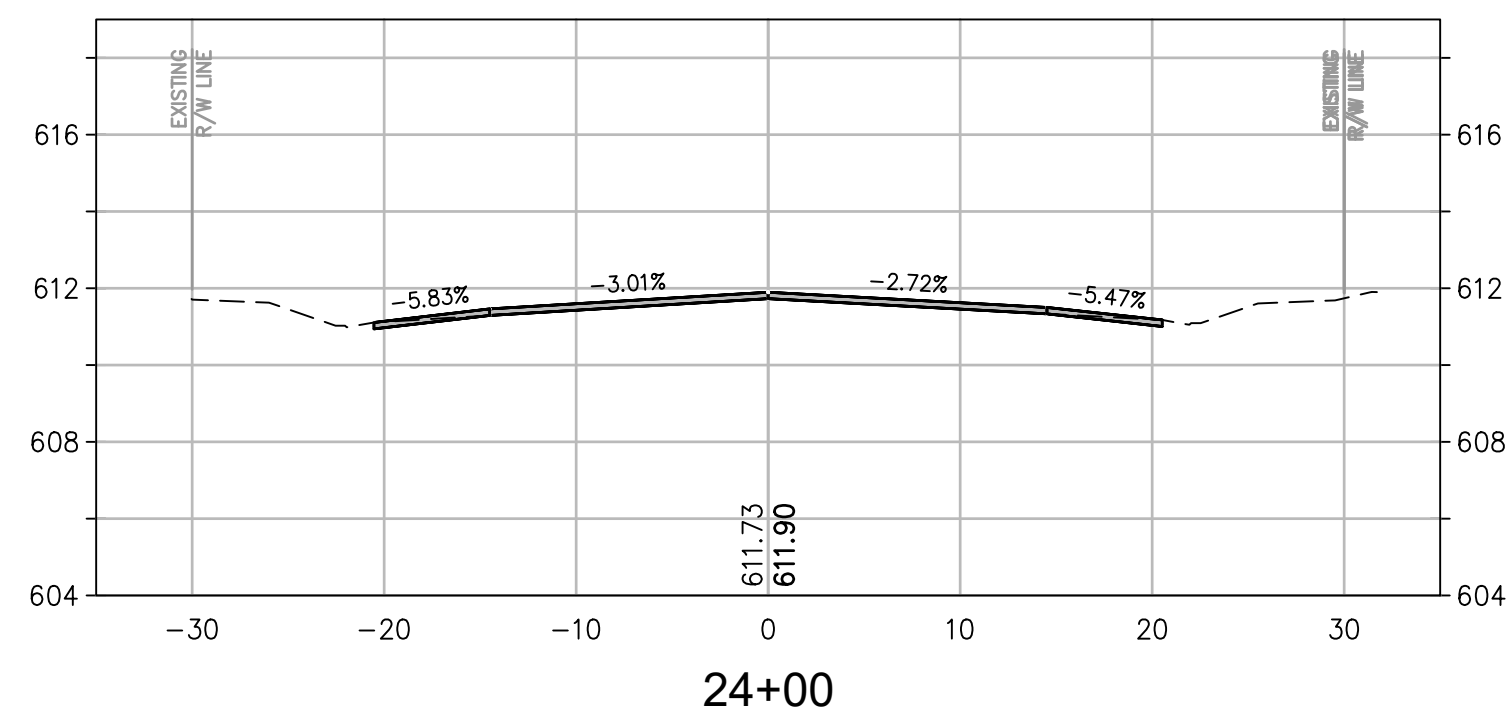
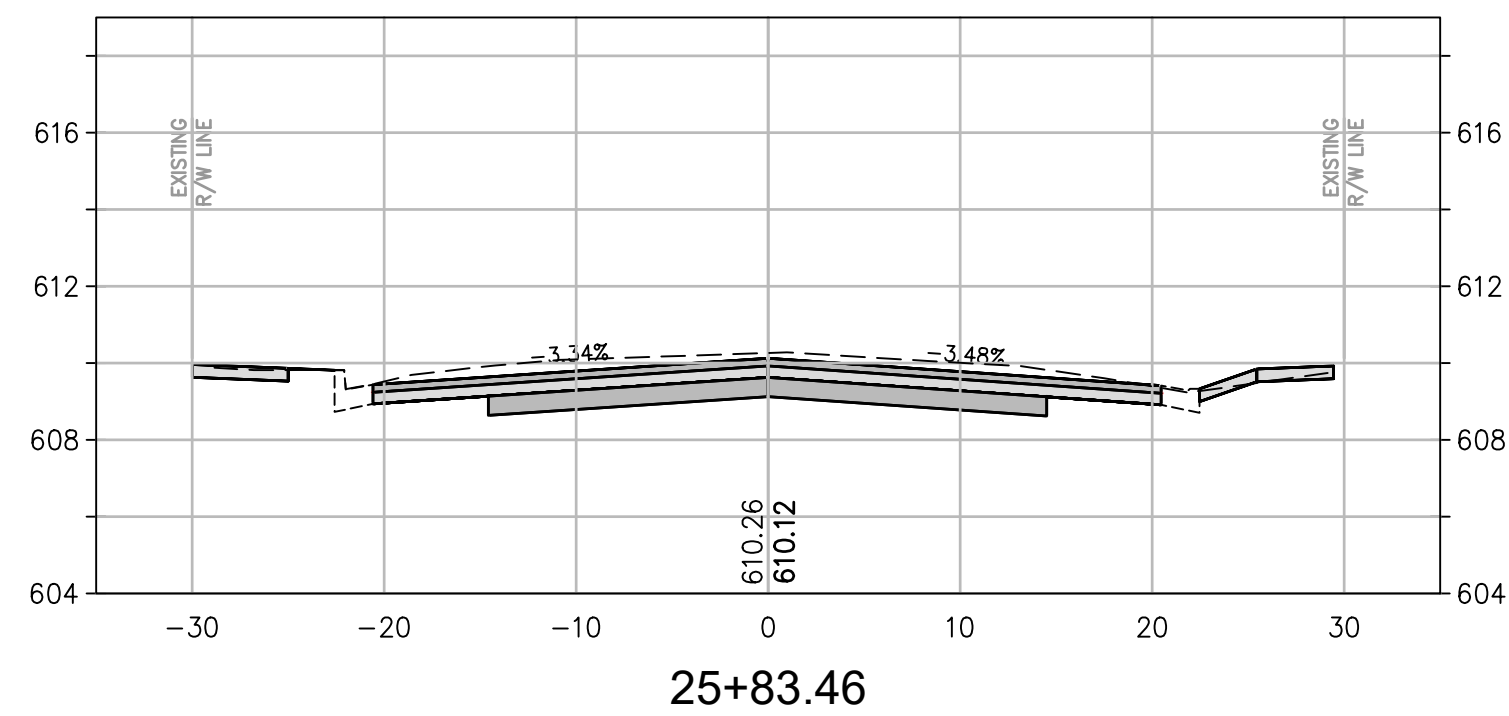
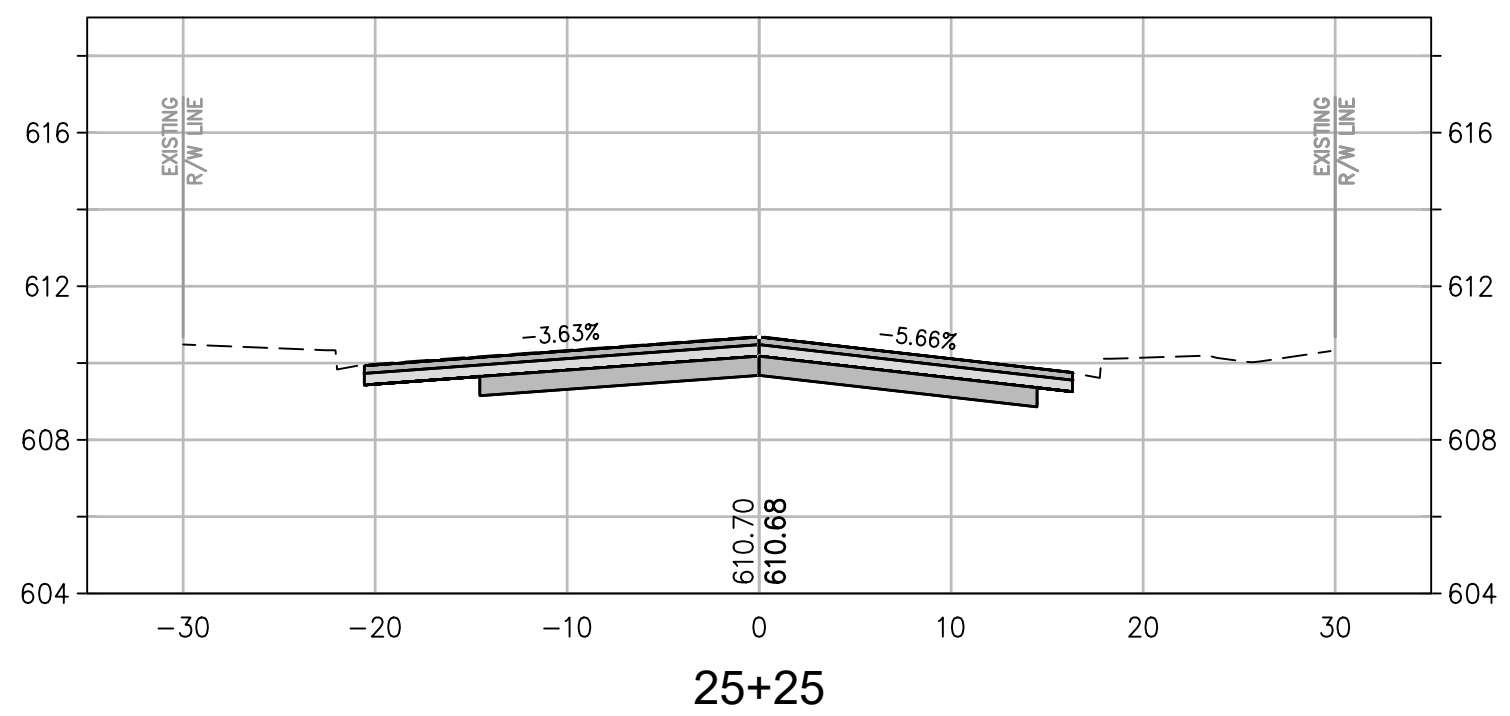
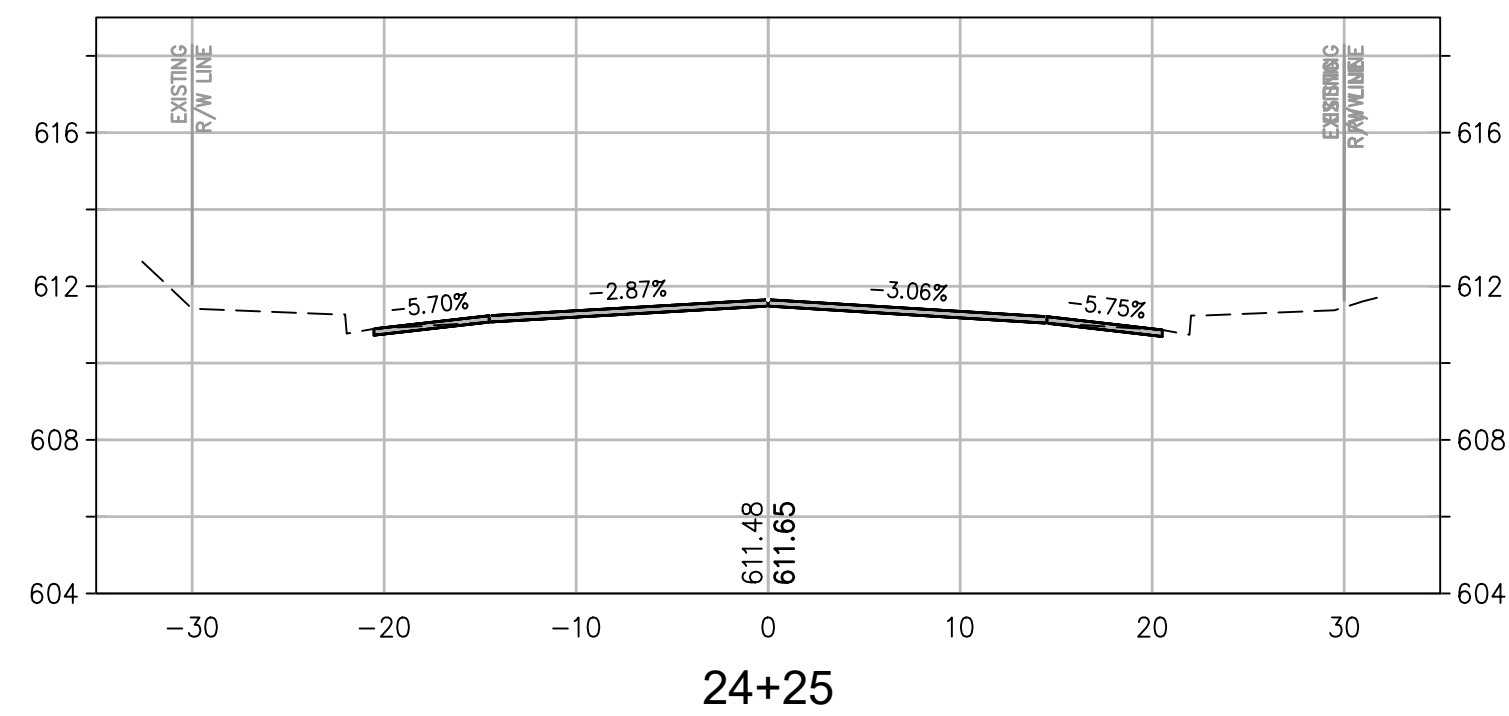
FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

3

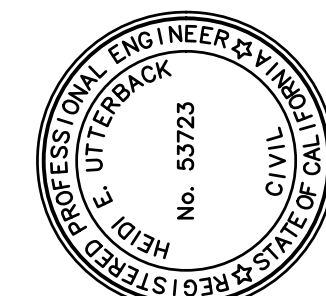
2

1

ORIGINAL PLOT DATE:



CROSS SECTION SCALES  
 HORIZ: 1" = 10'  
 VERT: 1" = 5'



PREPARED UNDER THE DIRECTION OF  
 Heidi E. Utterback 4/23/2020  
 HEIDI E. UTTERBACK, RCE 53723 DATE  
 DESIGNED BY WJK  
 DRAWN BY WJK  
 REVIEWED BY HEU

**Coastland Civil Engineering, Inc.**  
 1400 Neotomas Avenue, Santa Rosa, CA 95405  
 707.571.8005

CALIFORNIA  
 CLARA AVENUE RECONSTRUCTION PROJECT  
 SPECIFICATION NO. 20-08  
 CITY OF UKIAH  
**CROSS SECTIONS**  
**STA. 23+50 TO STA. 25+83.48**

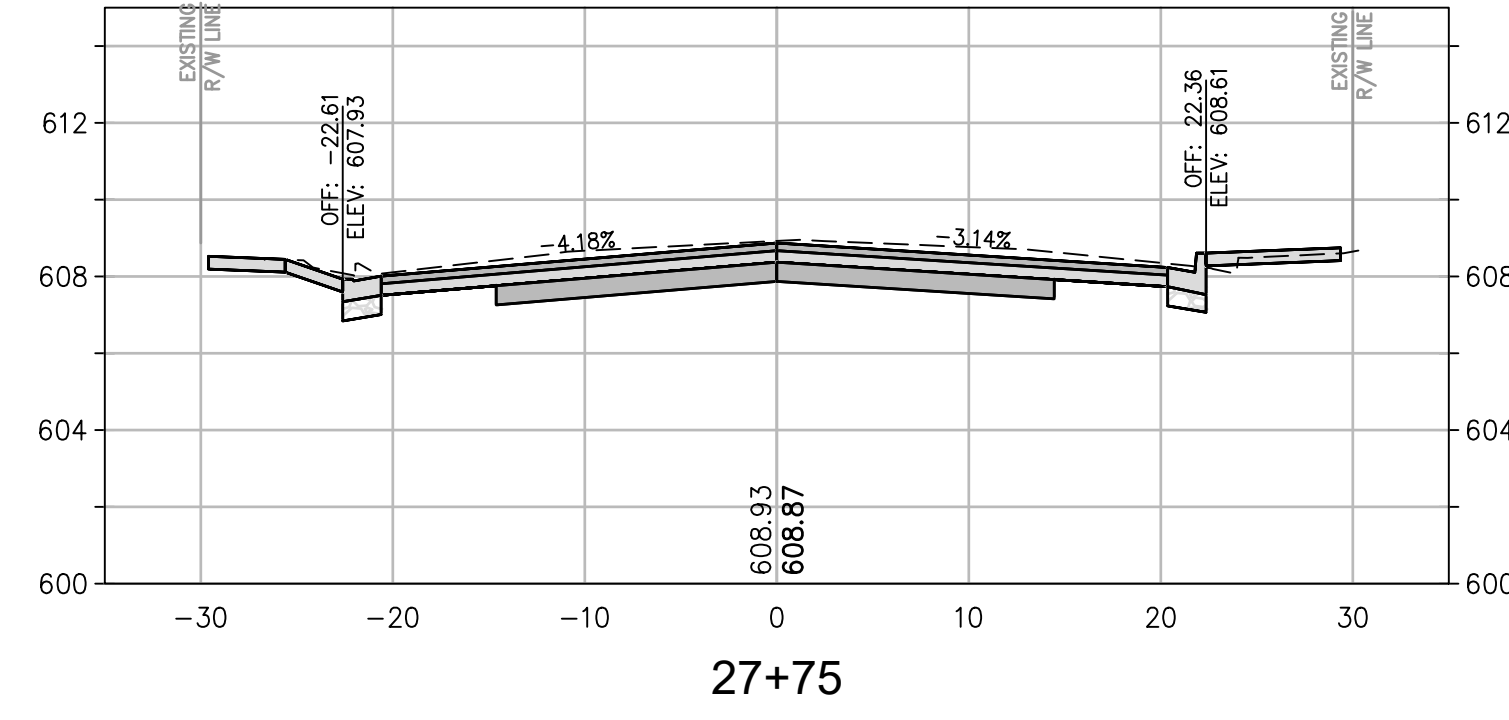
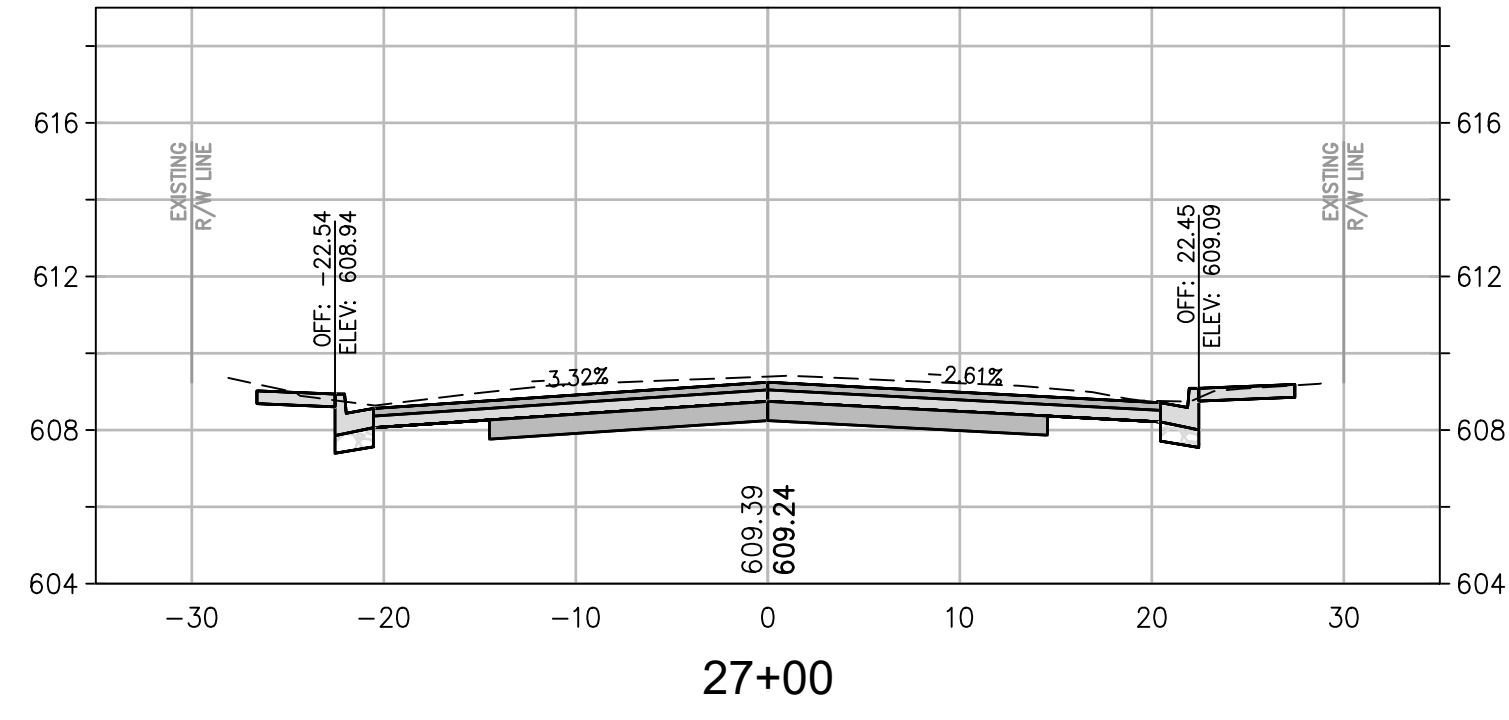
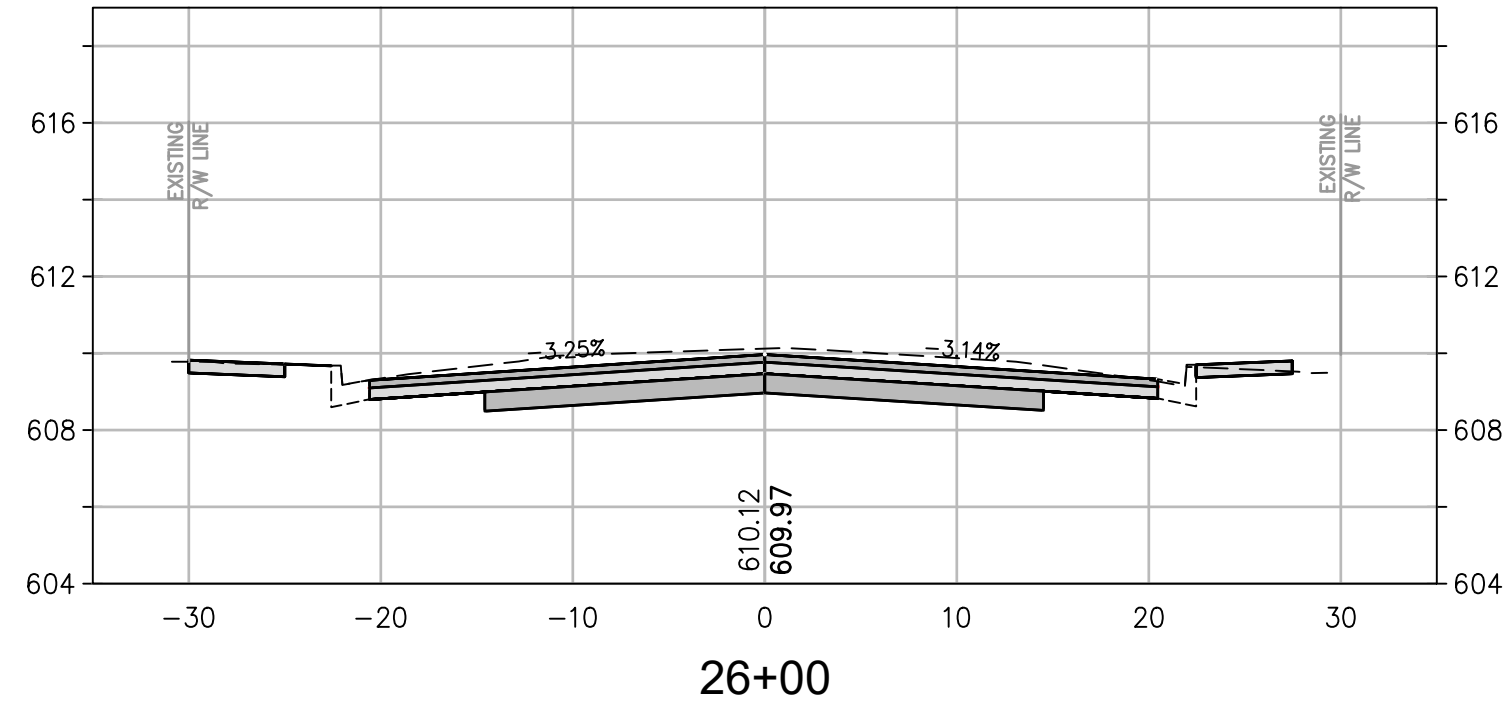
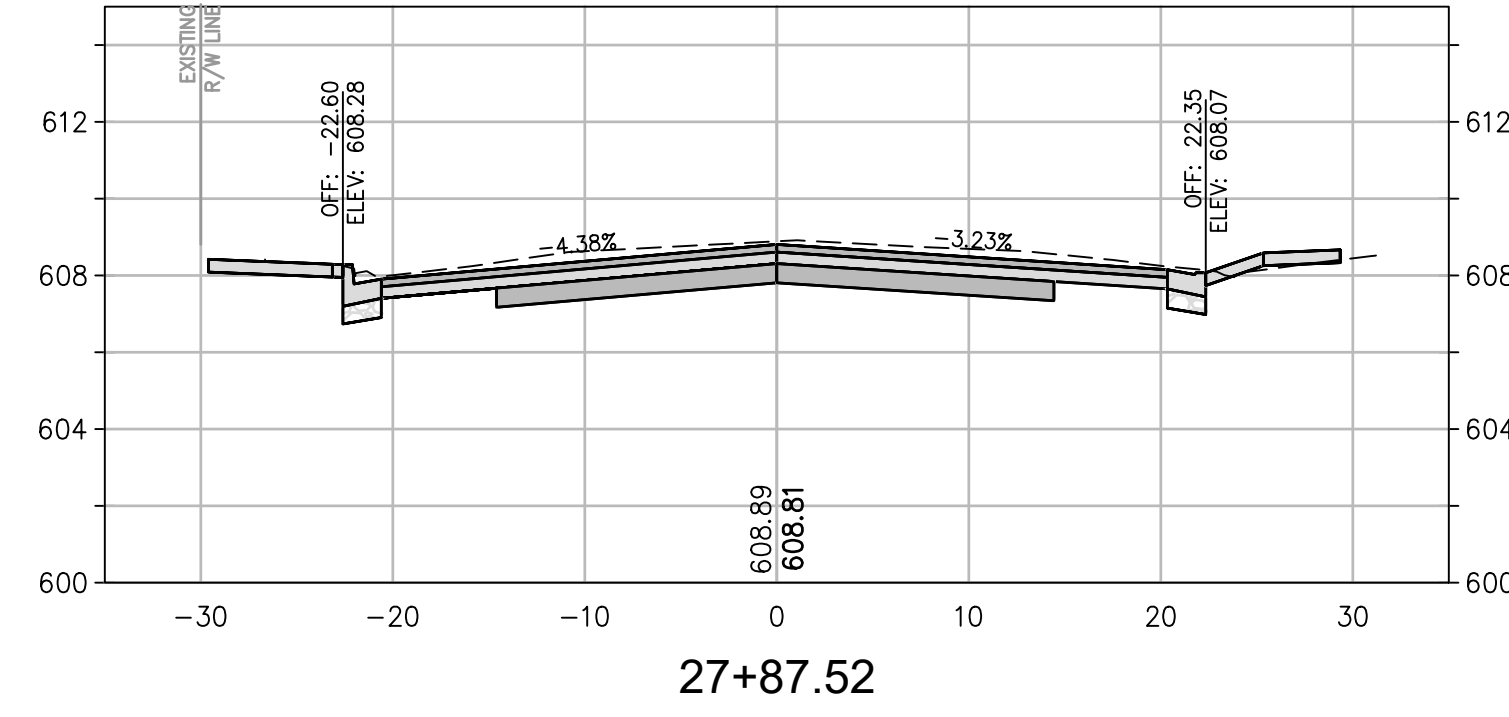
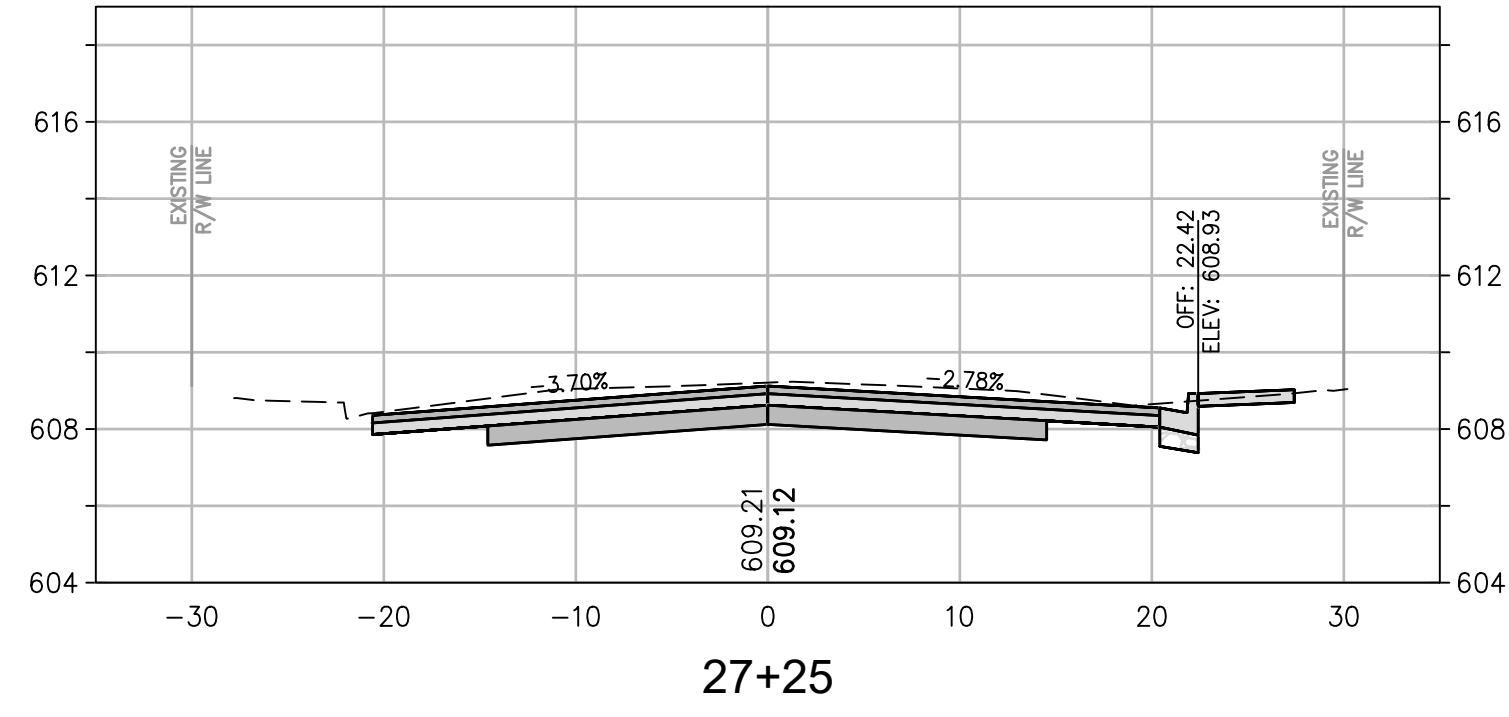
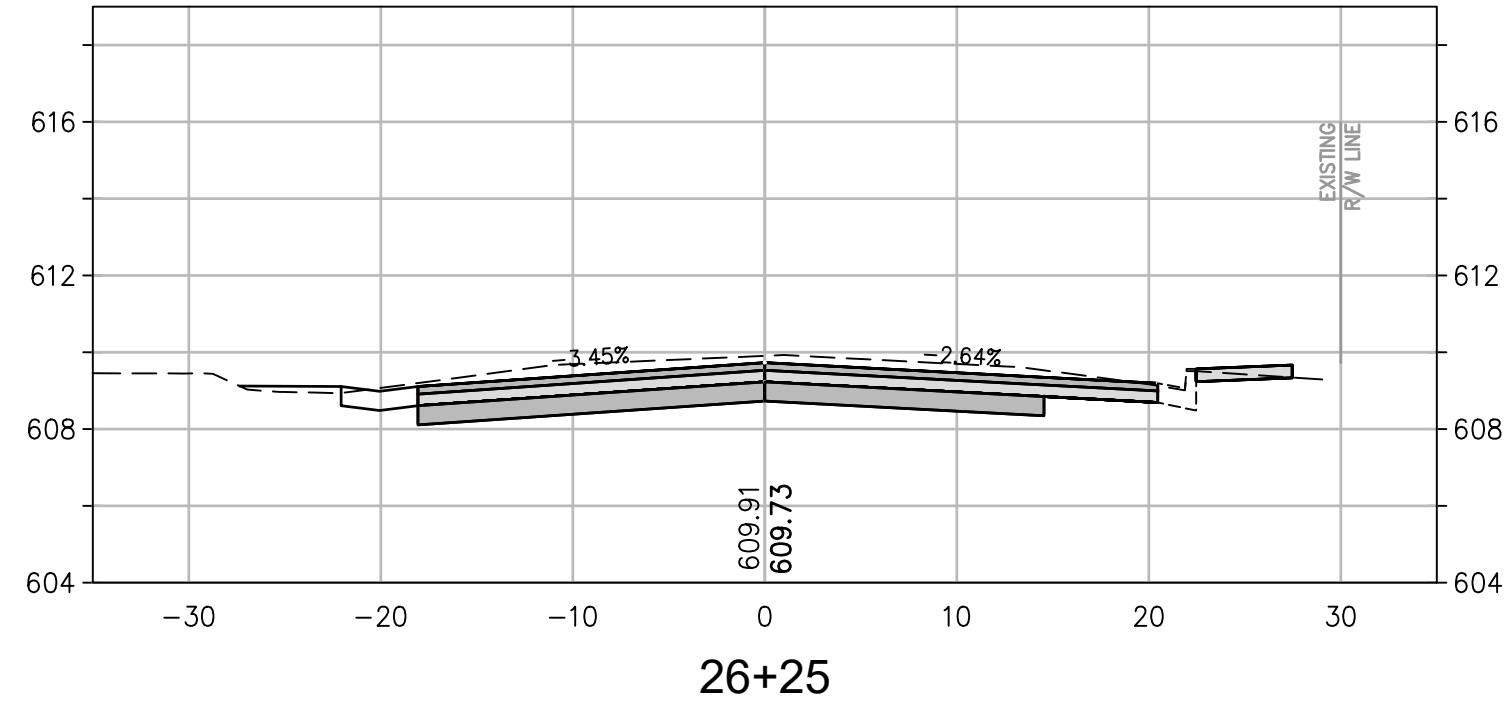
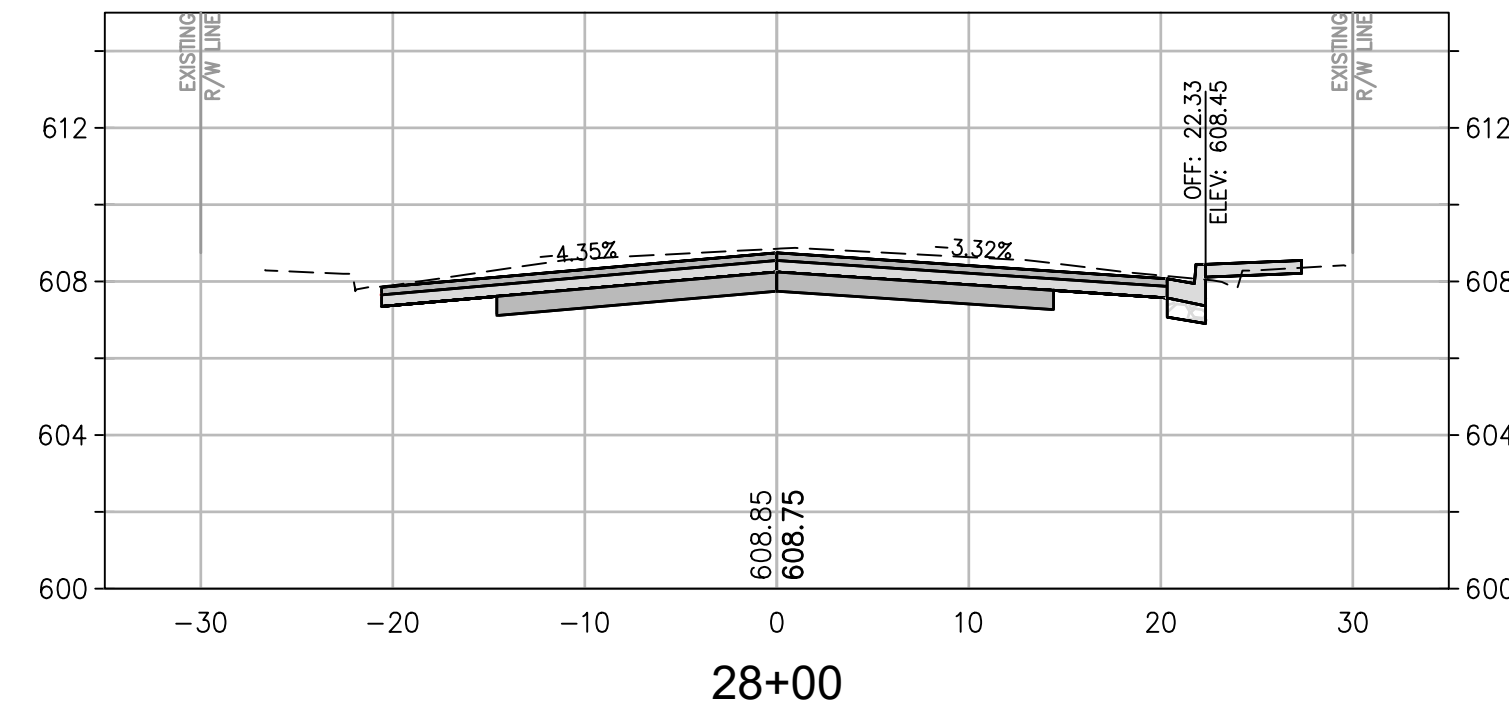
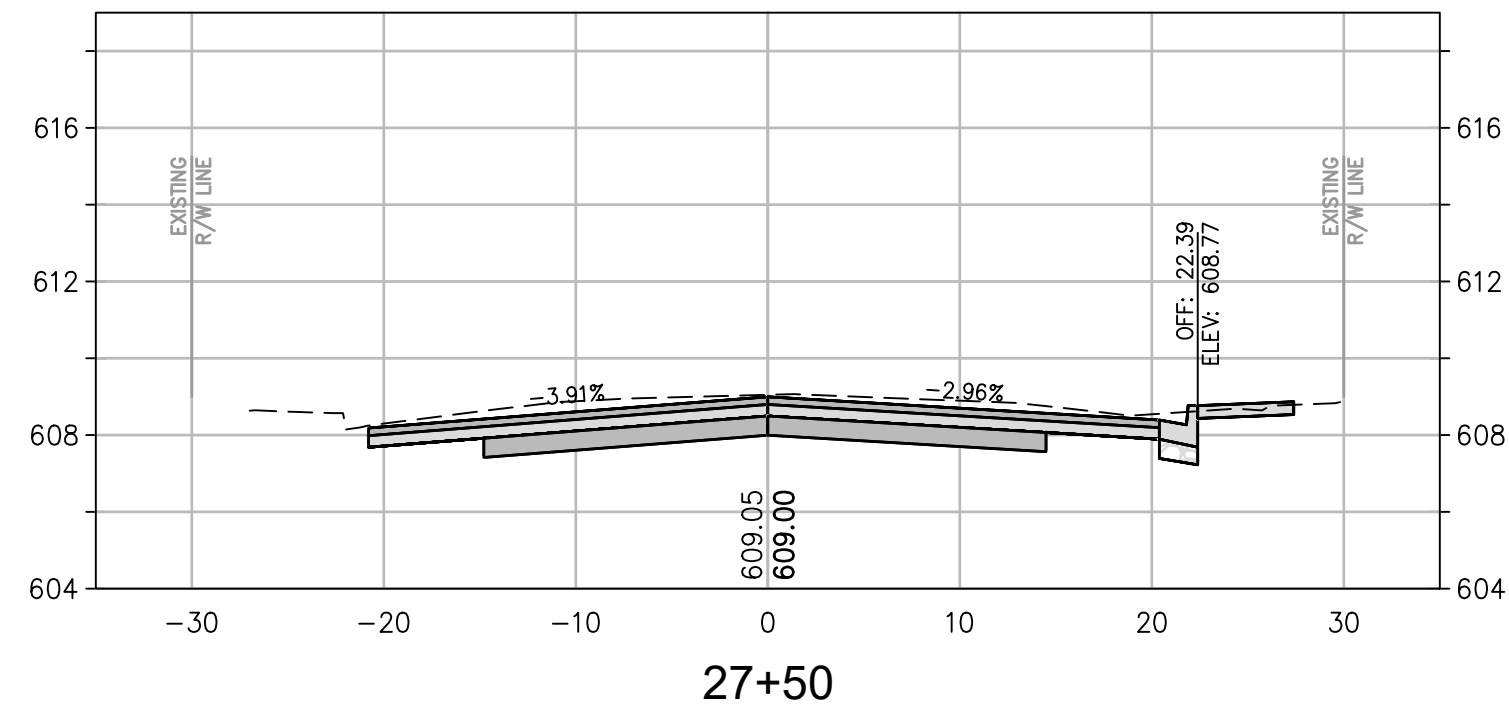
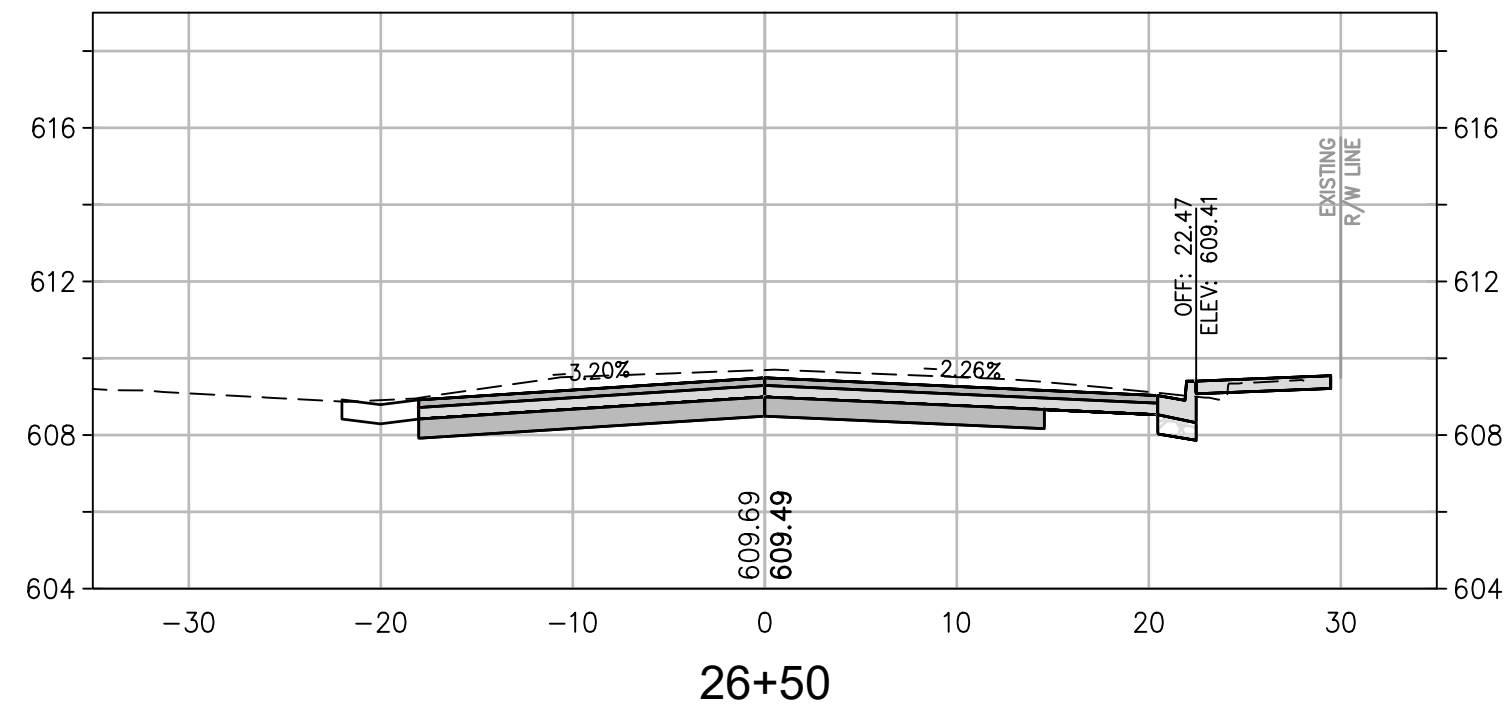
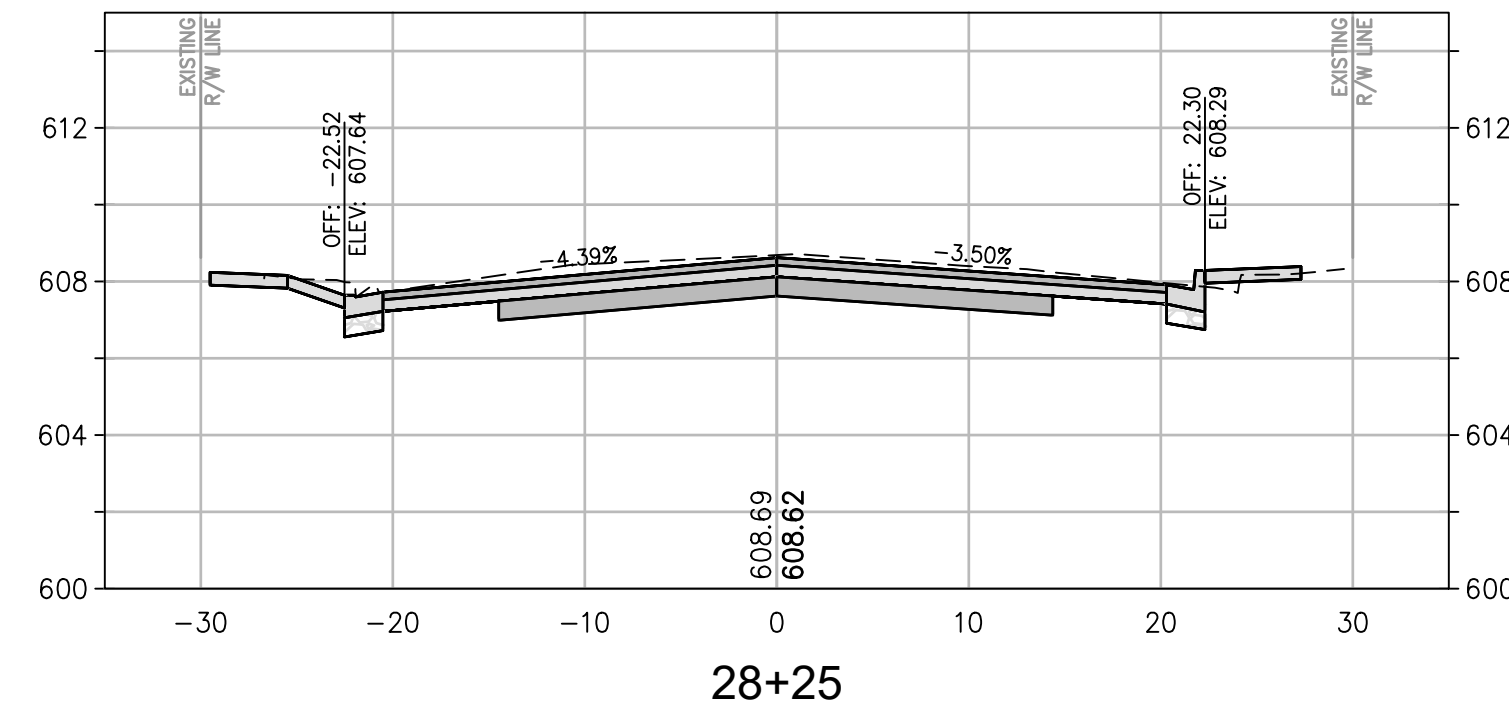
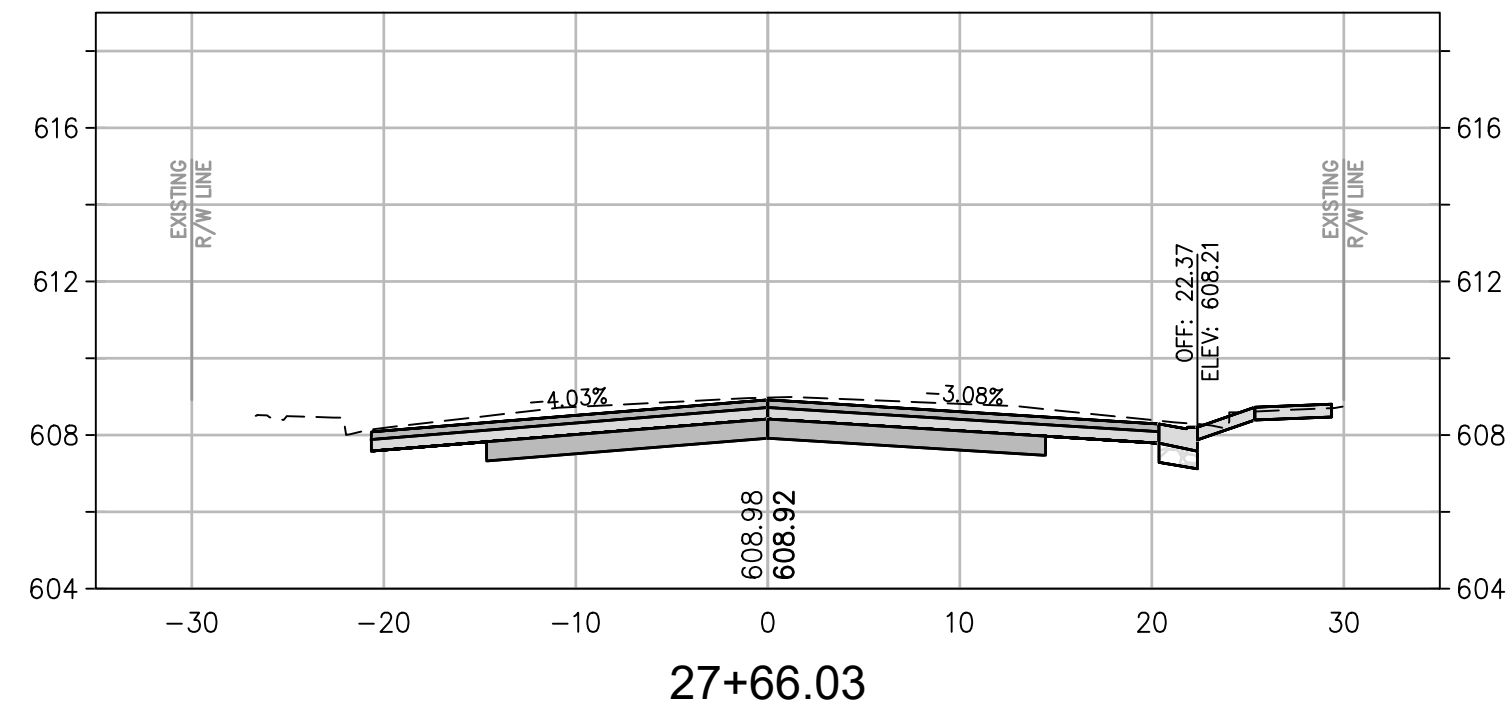
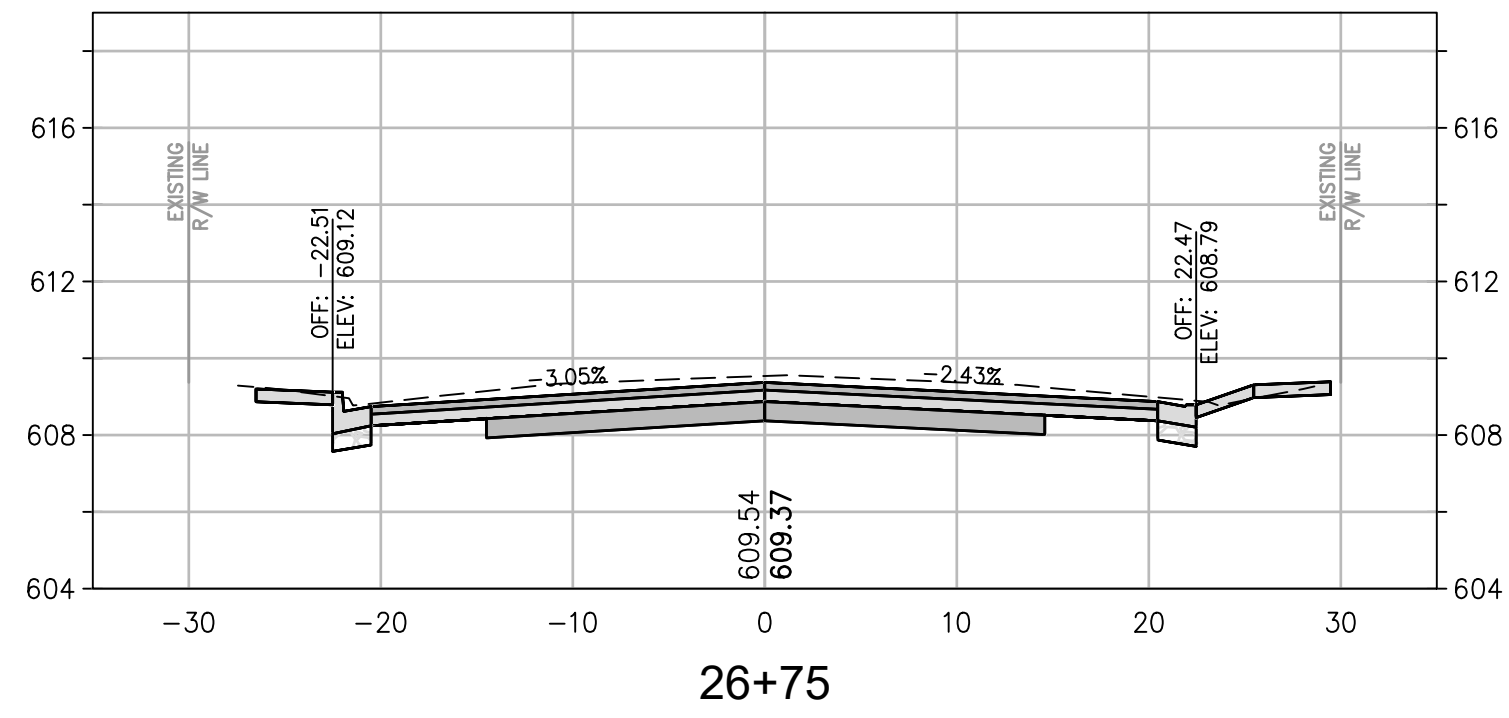
PROJECT NUMBER  
 29-4352  
 DRAWING DATE  
 APRIL 2020  
 SHEET NUMBER  
**25 OF 31**

Xrefs: CCE-ENGINEERS STAMPS-PLAN.dwg; 294352-dora\_sp-RIP.dwg; 294352-dora\_RR-RAMP-RIP.dwg  
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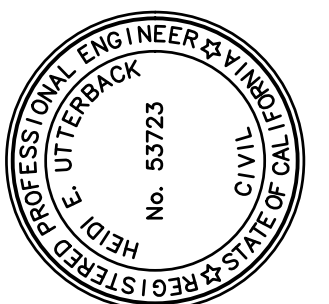
FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

3  
2  
1

ORIGINAL PLOT DATE:



CROSS SECTION SCALES  
 HORIZ: 1" = 10'  
 VERT: 1" = 5'



PREPARED UNDER THE DIRECTION OF  
 Heidi E. Utterback 4/23/2020  
 HEIDI E. UTTERBACK, RCE 53723 DATE  
 DESIGNED BY WJK  
 DRAWN BY WJK  
 REVIEWED BY HEU

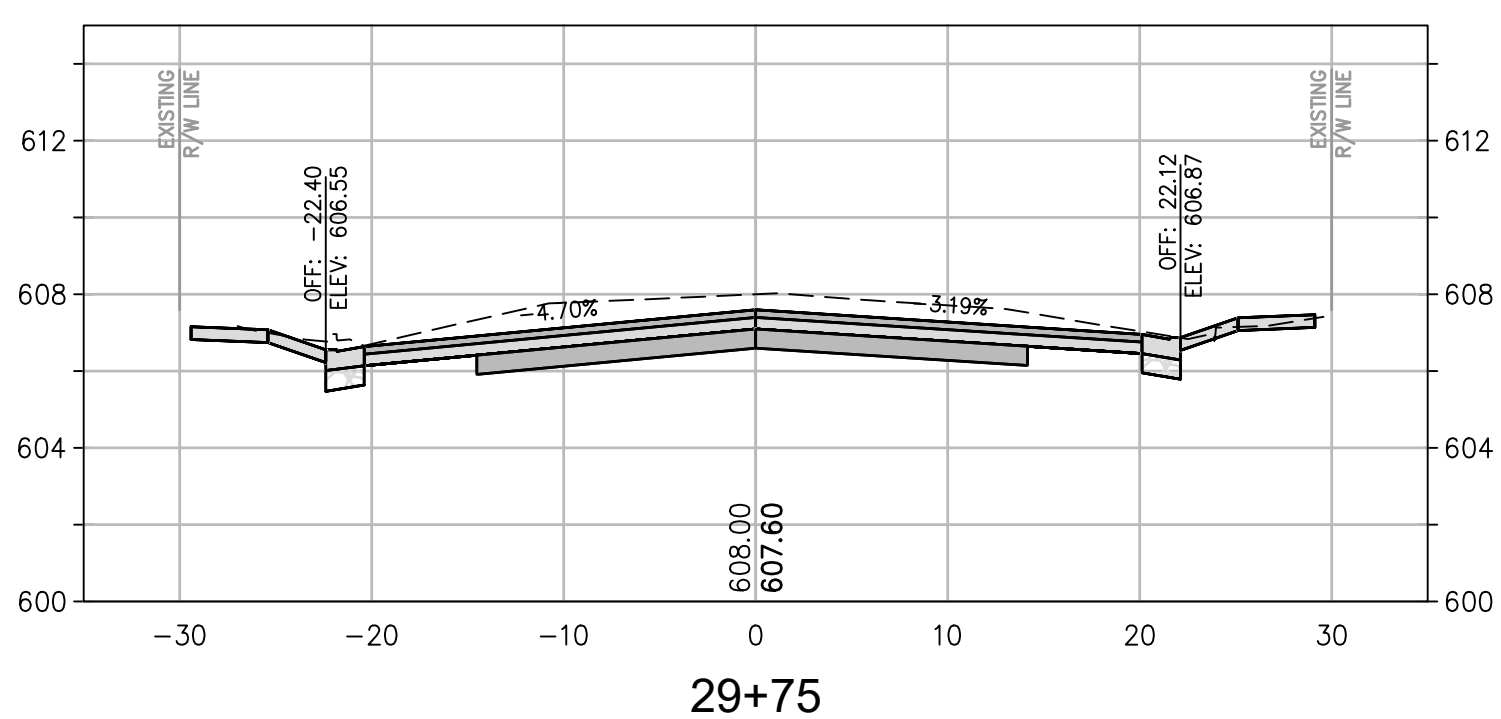
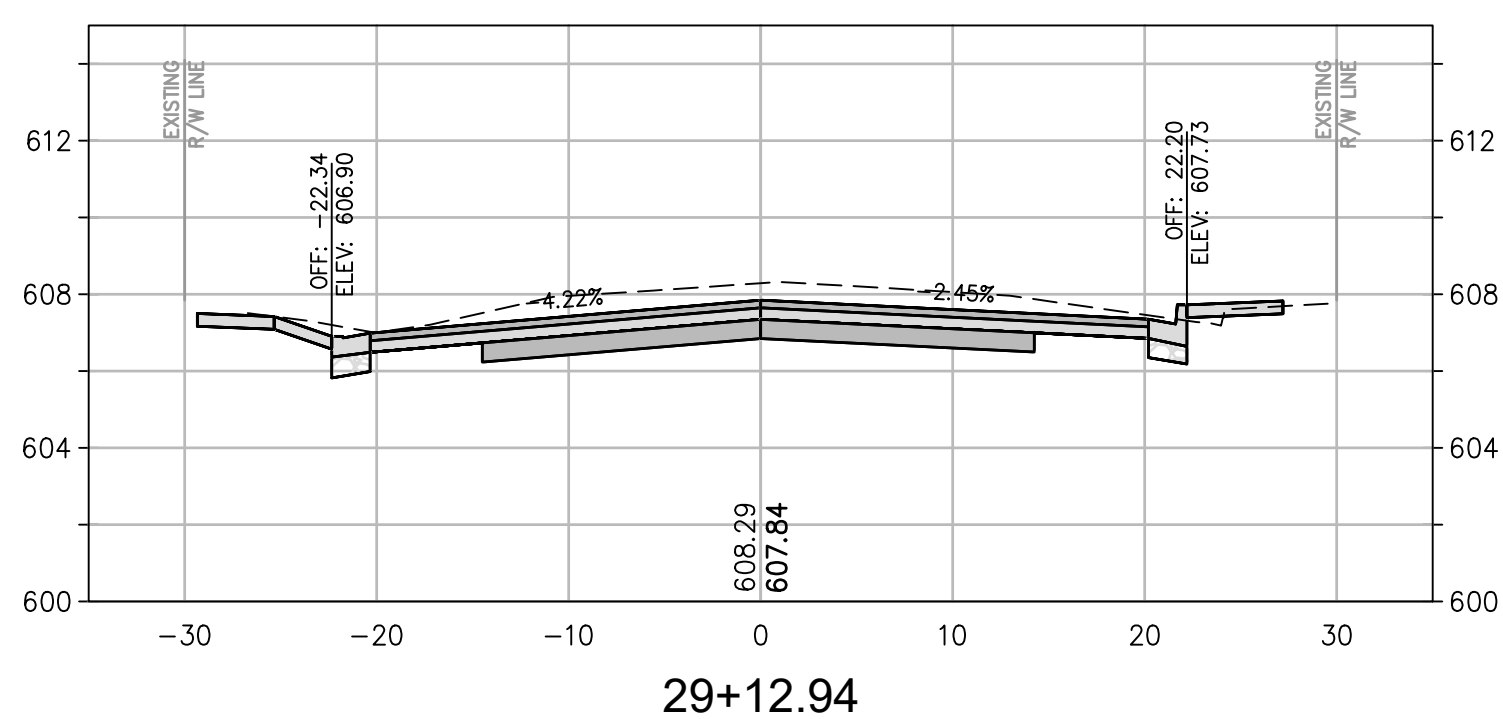
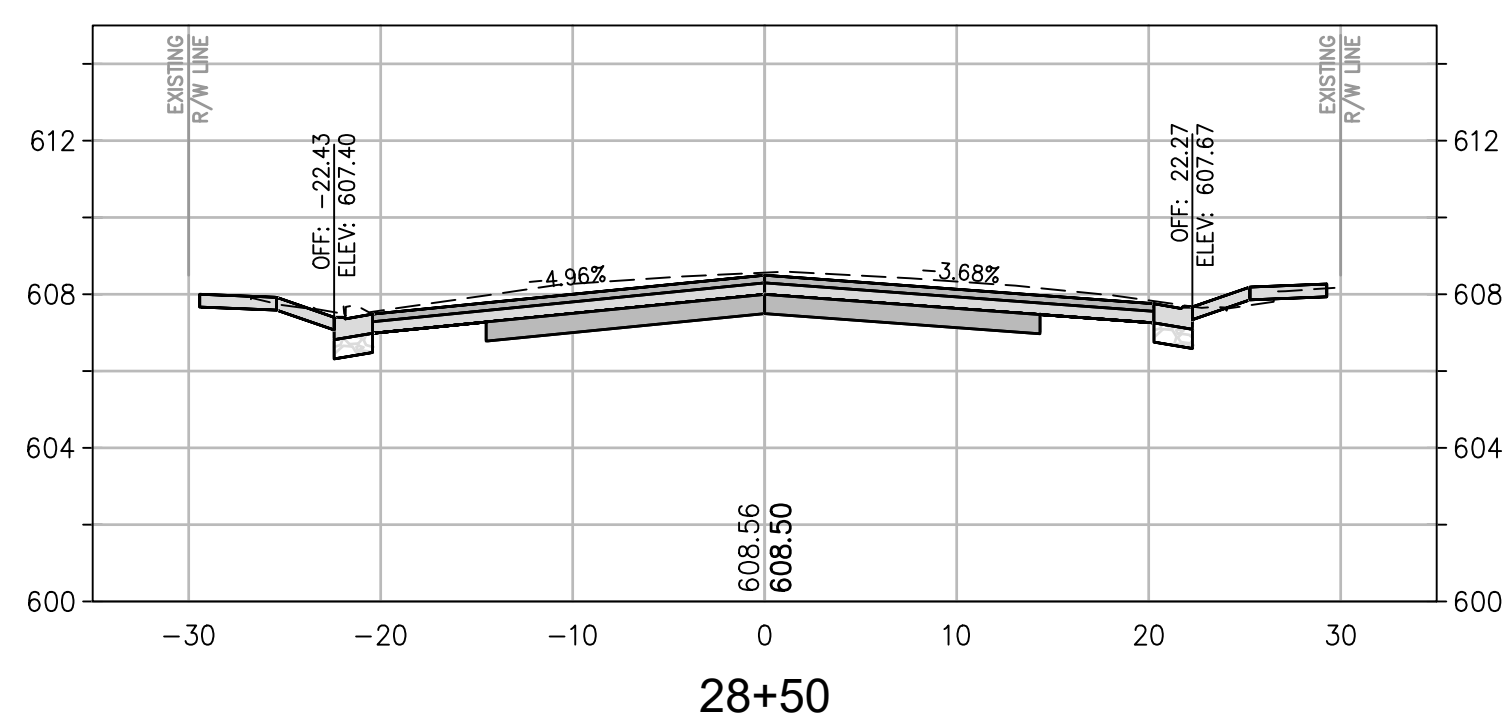
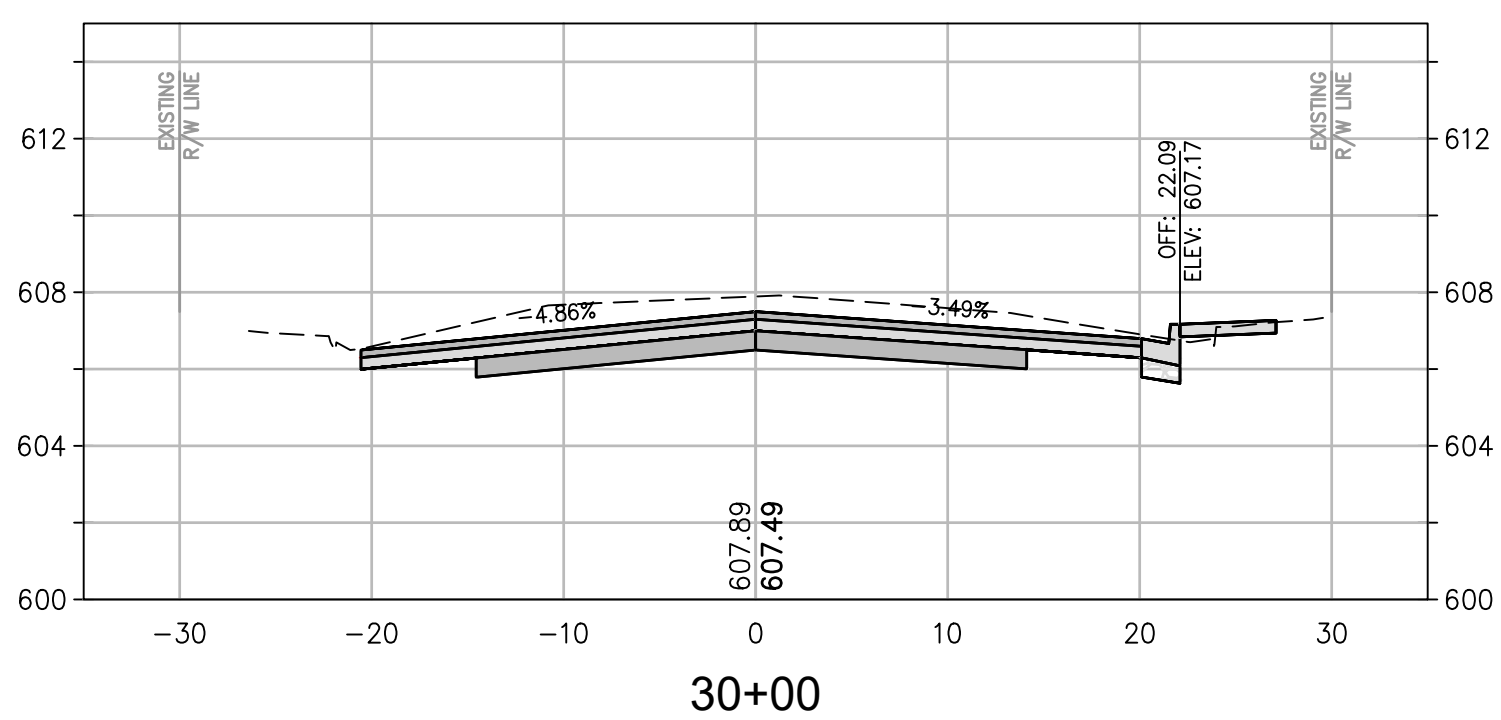
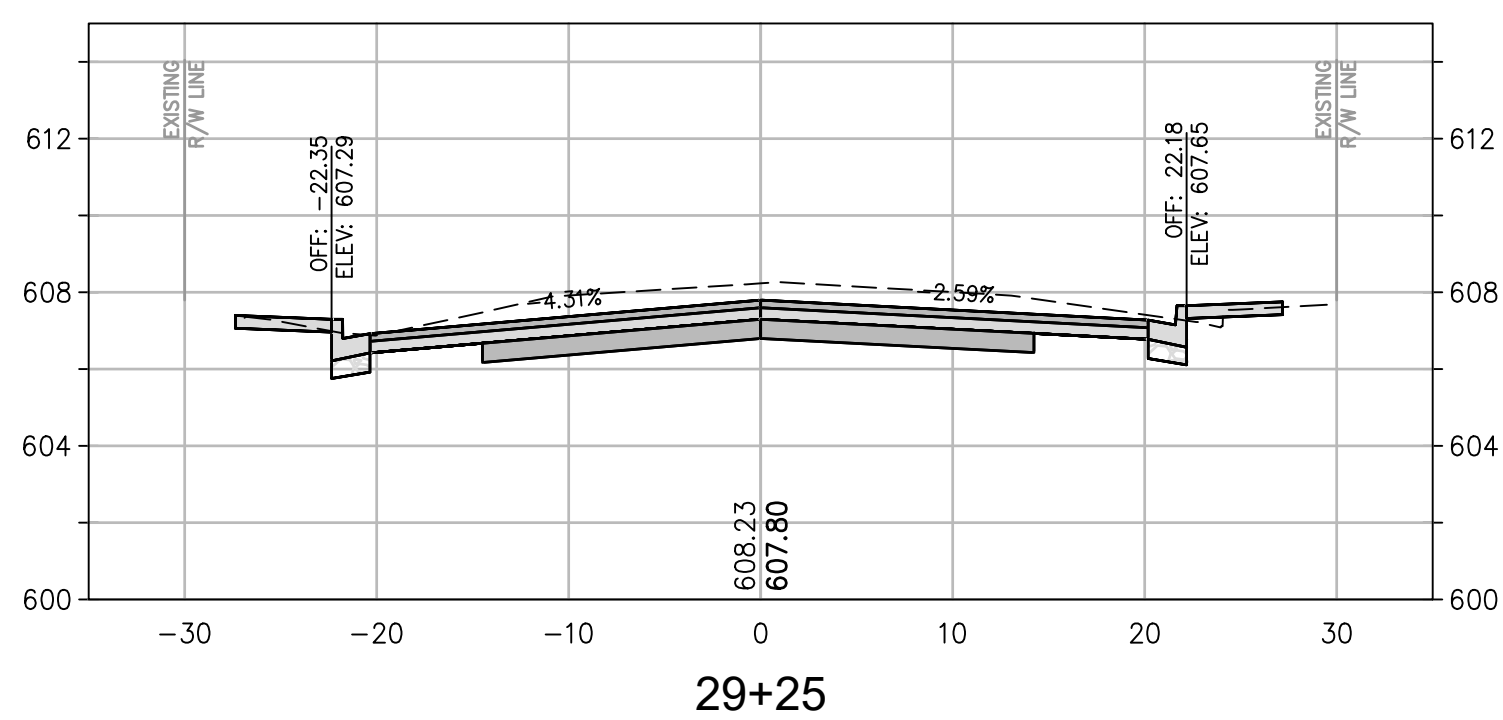
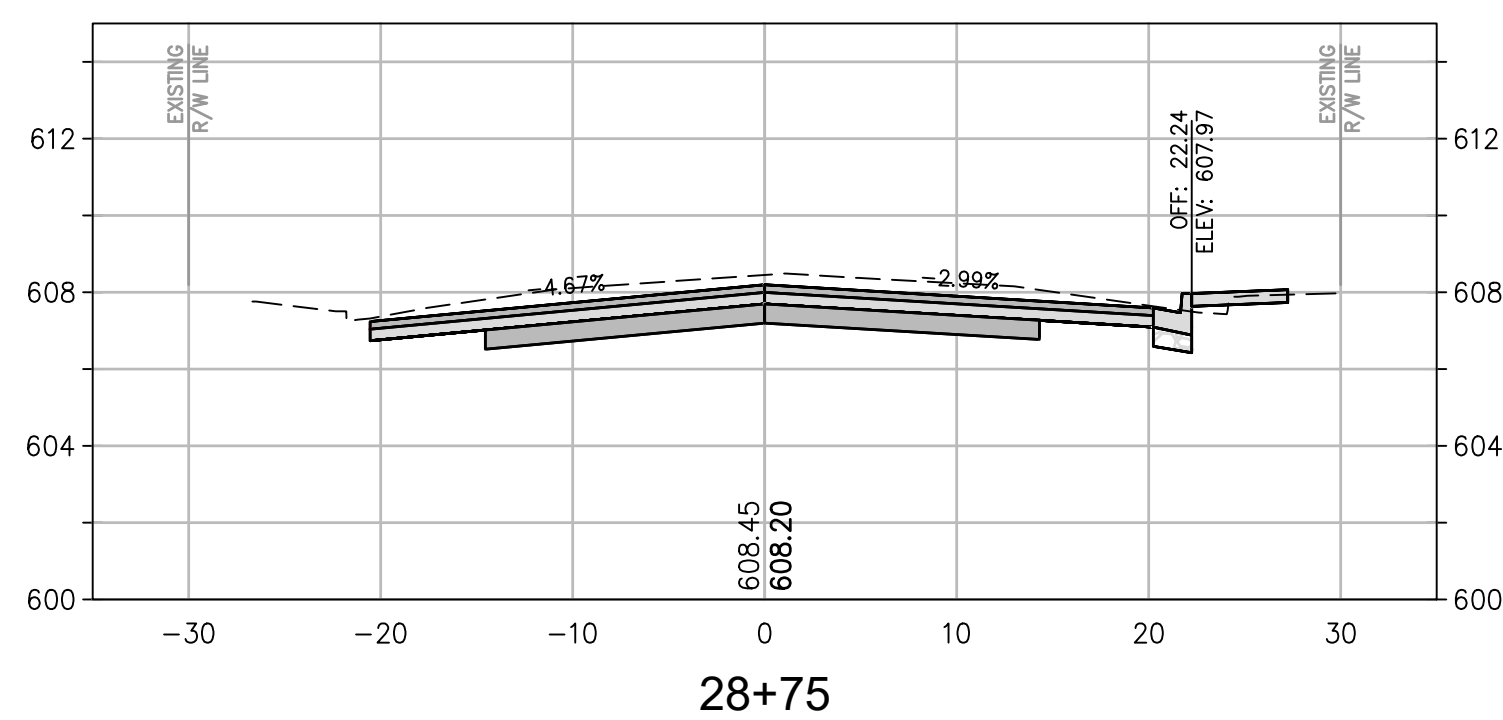
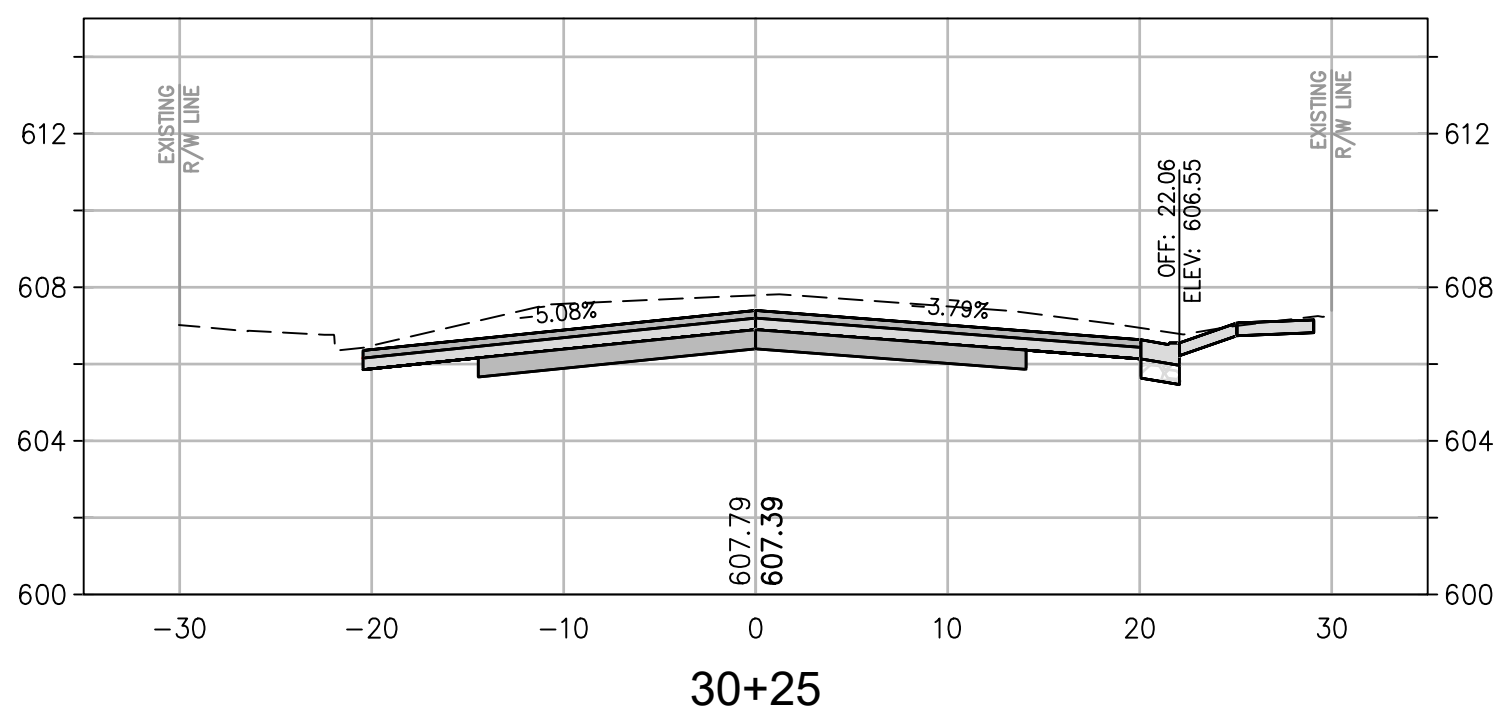
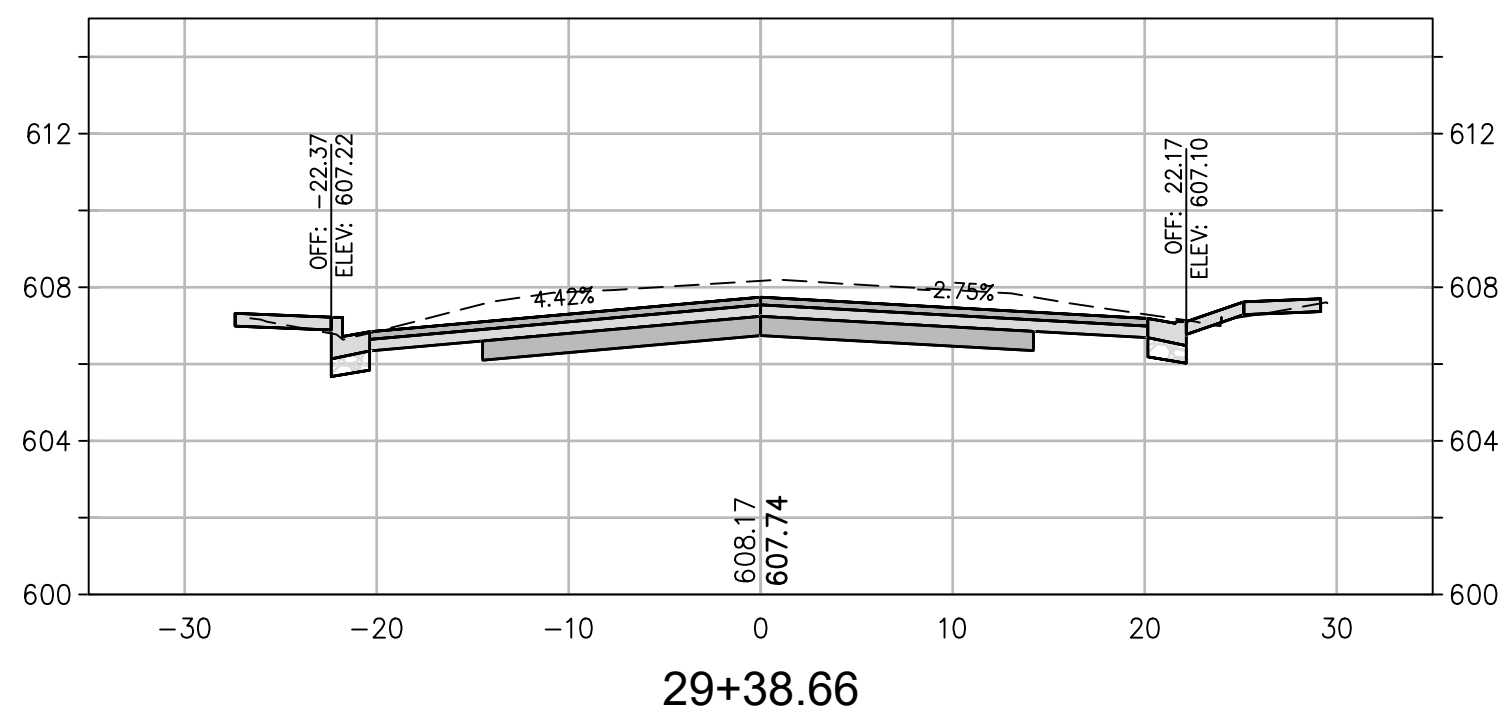
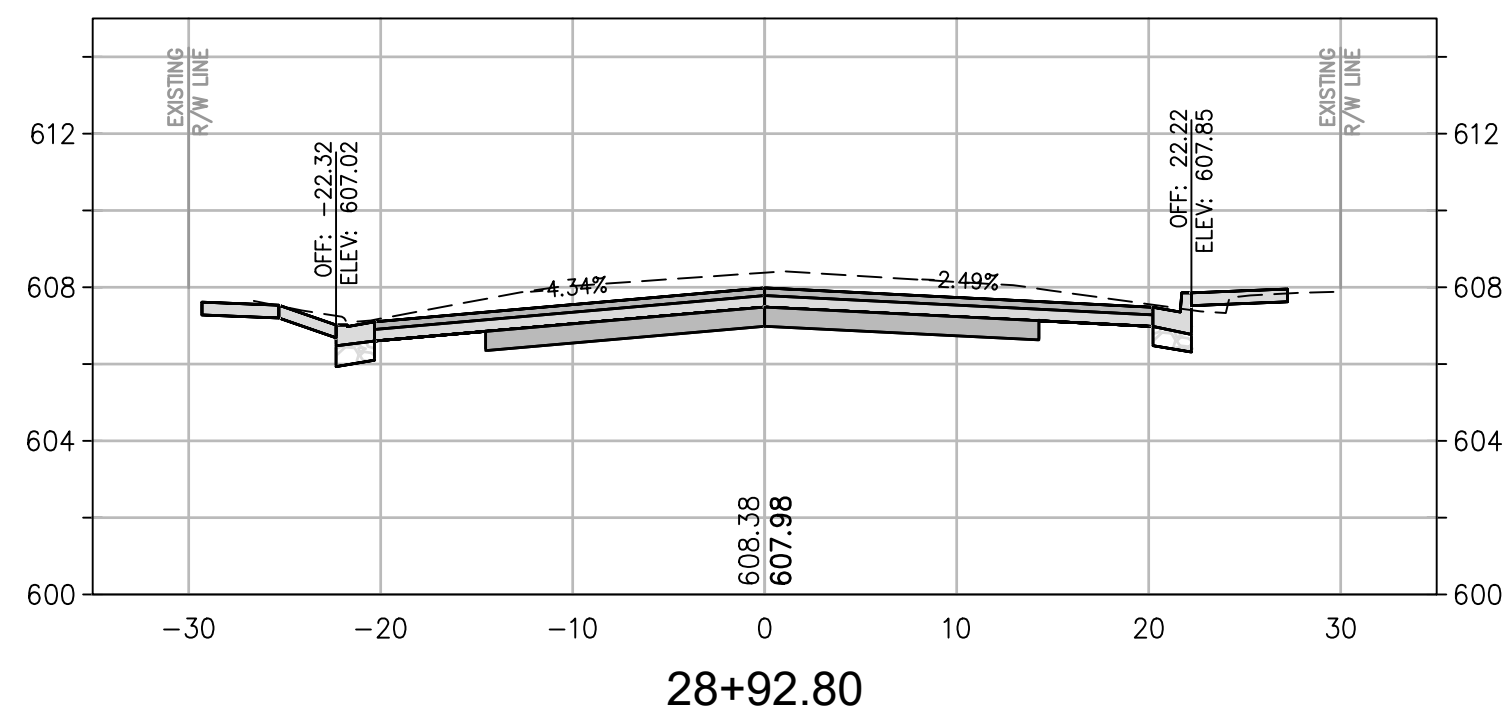
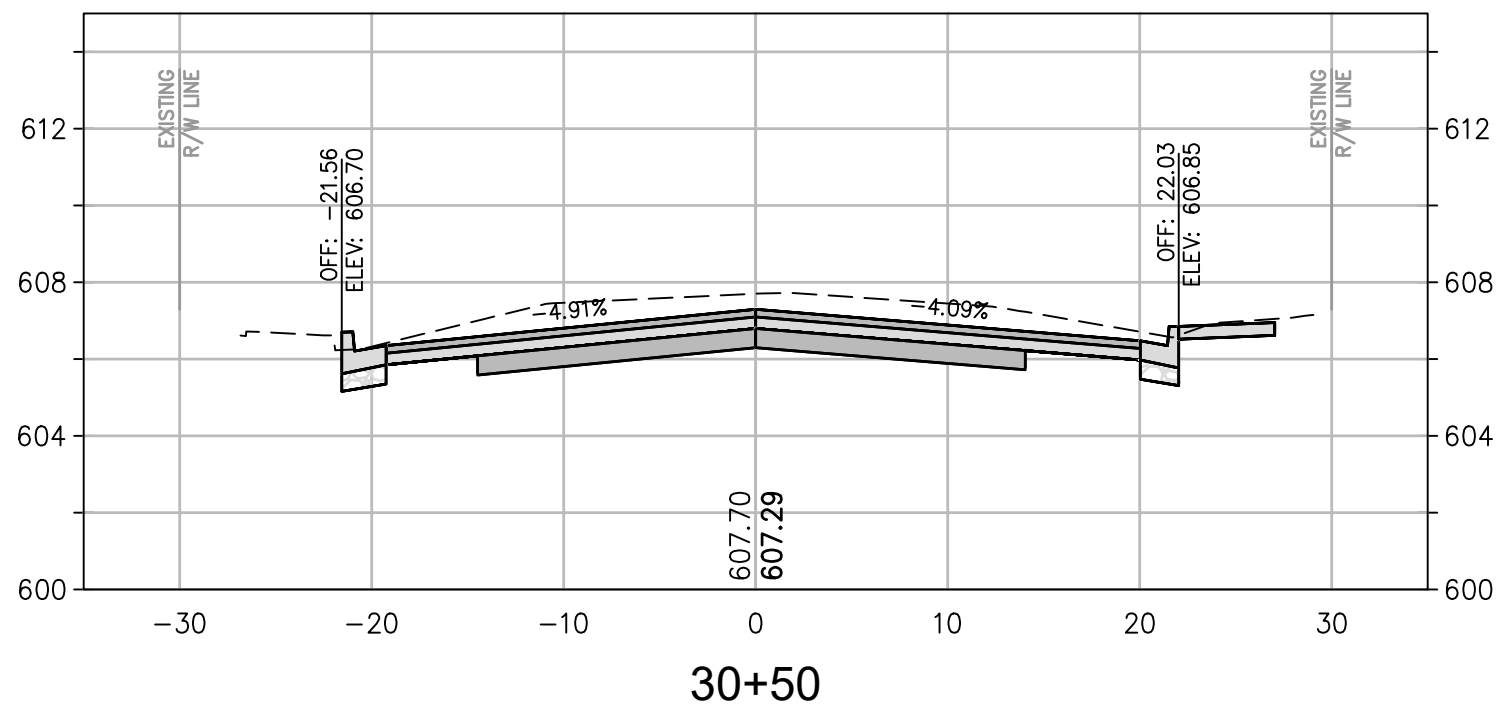
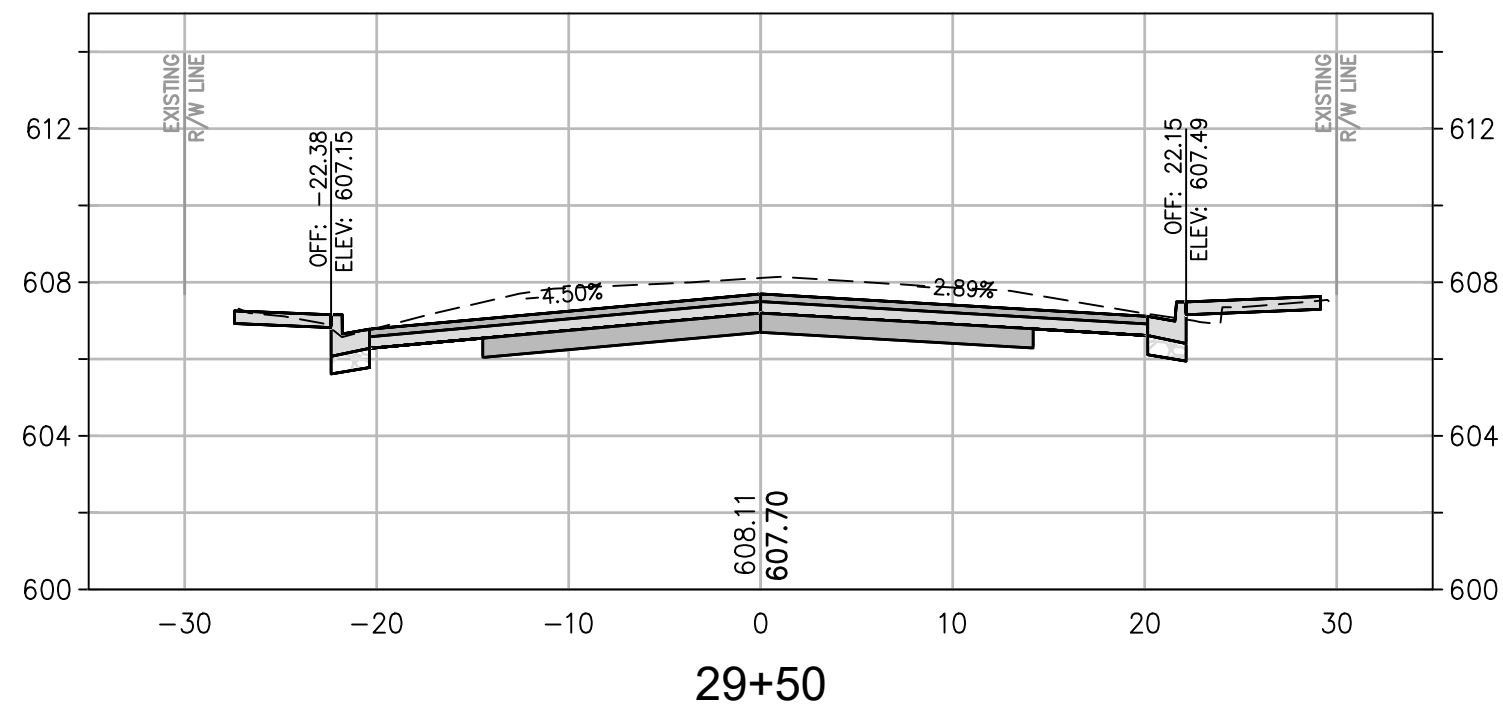
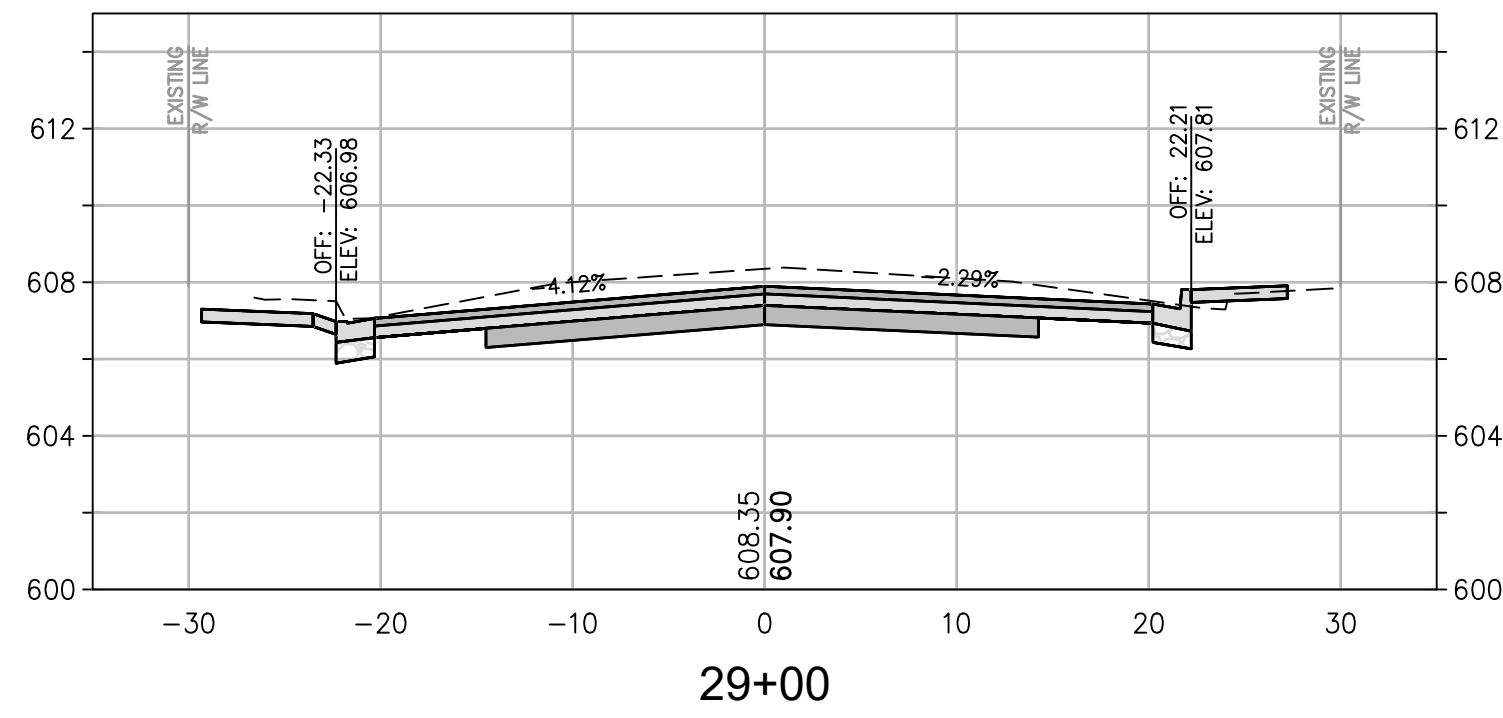
**Coastland Civil Engineering, Inc.**  
 1400 Neotomas Avenue, Santa Rosa, CA 95405  
 707.571.8003 Fax

CALIFORNIA  
 CLARA AVENUE RECONSTRUCTION PROJECT  
 SPECIFICATION NO. 20-08  
 CITY OF UKIAH  
**CROSS SECTIONS**  
**STA. 26+00 TO STA. 28+25**

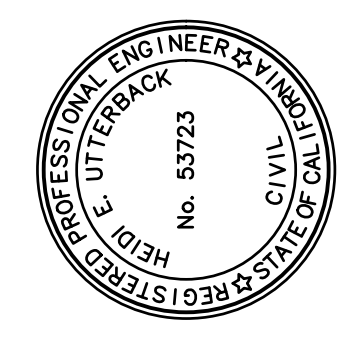
PROJECT NUMBER  
 29-4352  
 DRAWING DATE  
 APRIL 2020  
 SHEET NUMBER  
**26 OF 31**

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 ORIGINAL PLOT DATE:

FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES.



**CROSS SECTION SCALES**  
 HORIZ: 1" = 10'  
 VERT: 1" = 5'



PREPARED UNDER THE DIRECTION OF  
 Heidi E. Utterback 4/23/2020  
 HEIDI E. UTTERBACK, RCE 53723 DATE  
 DESIGNED BY WJK  
 DRAWN BY WJK  
 REVIEWED BY HEU

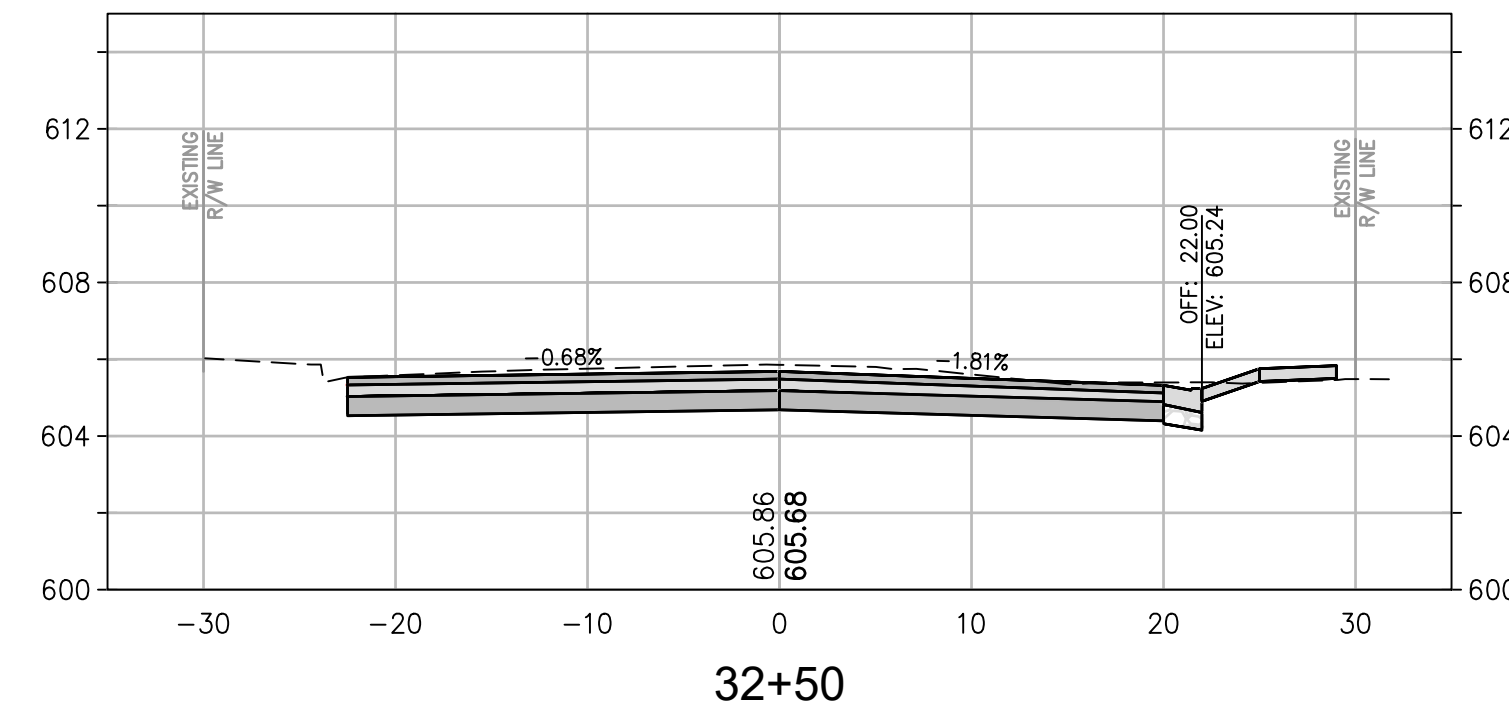
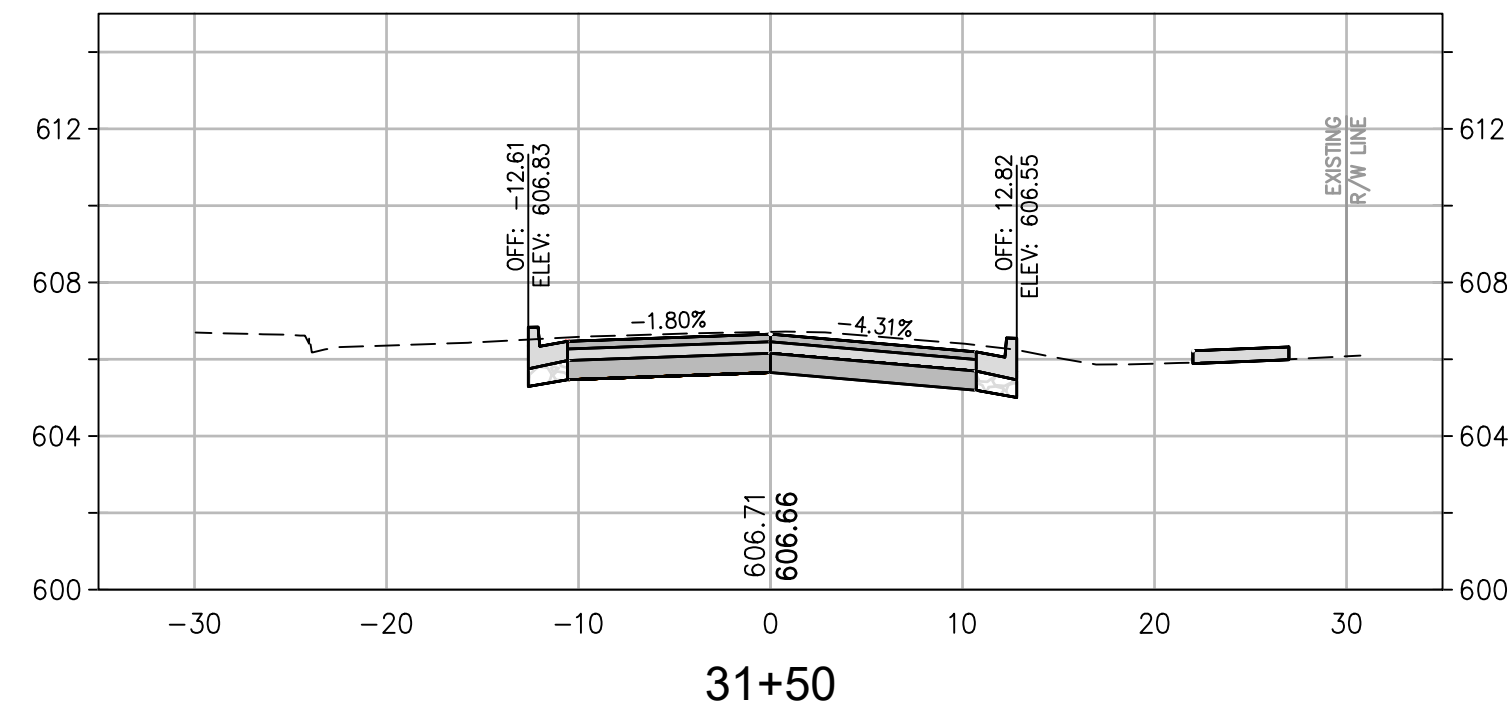
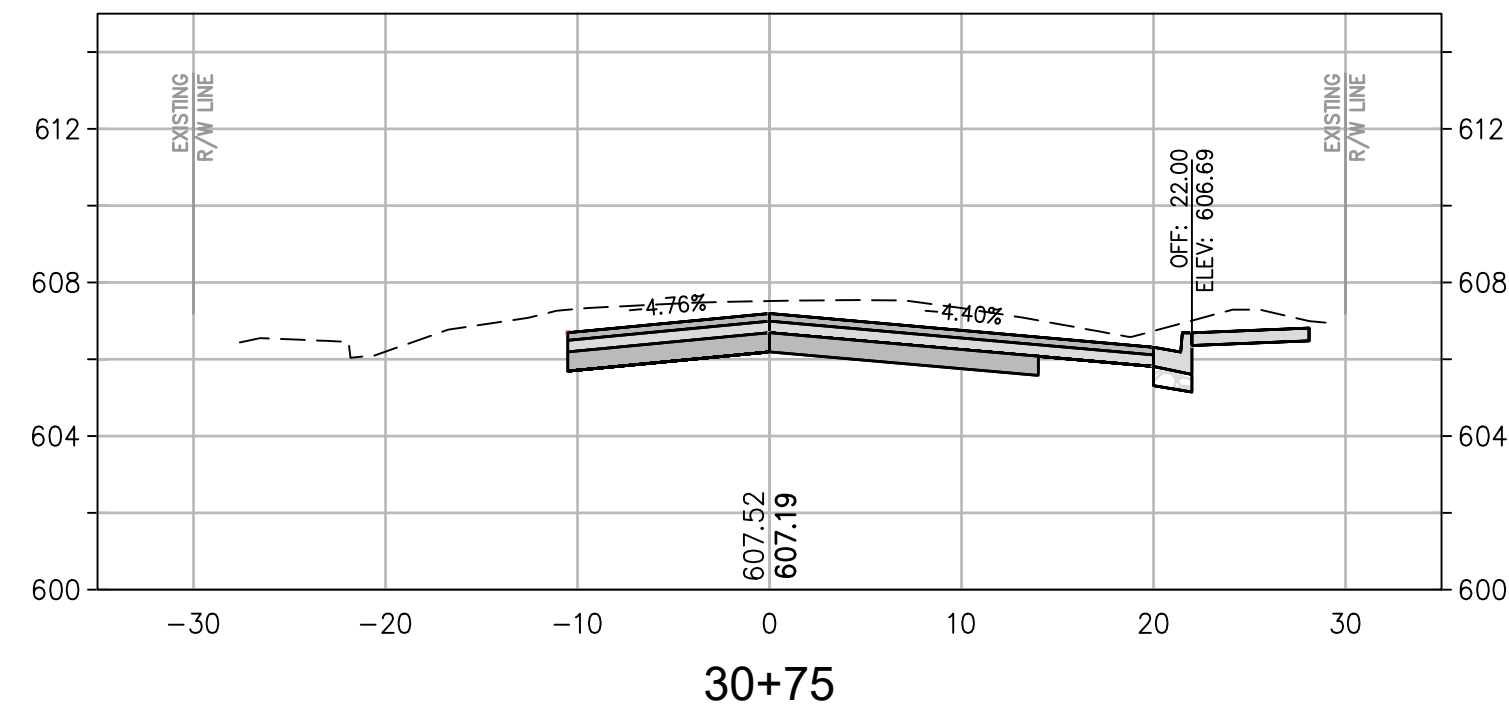
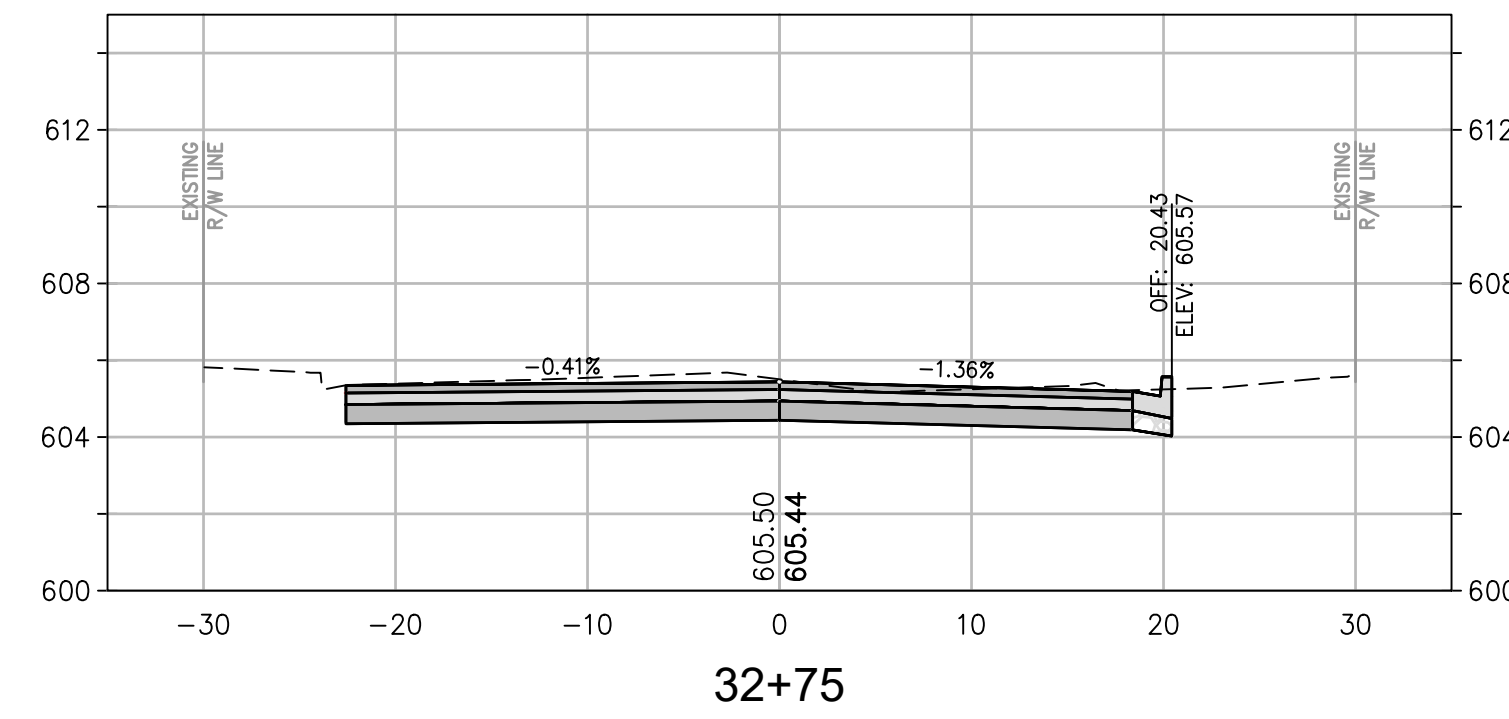
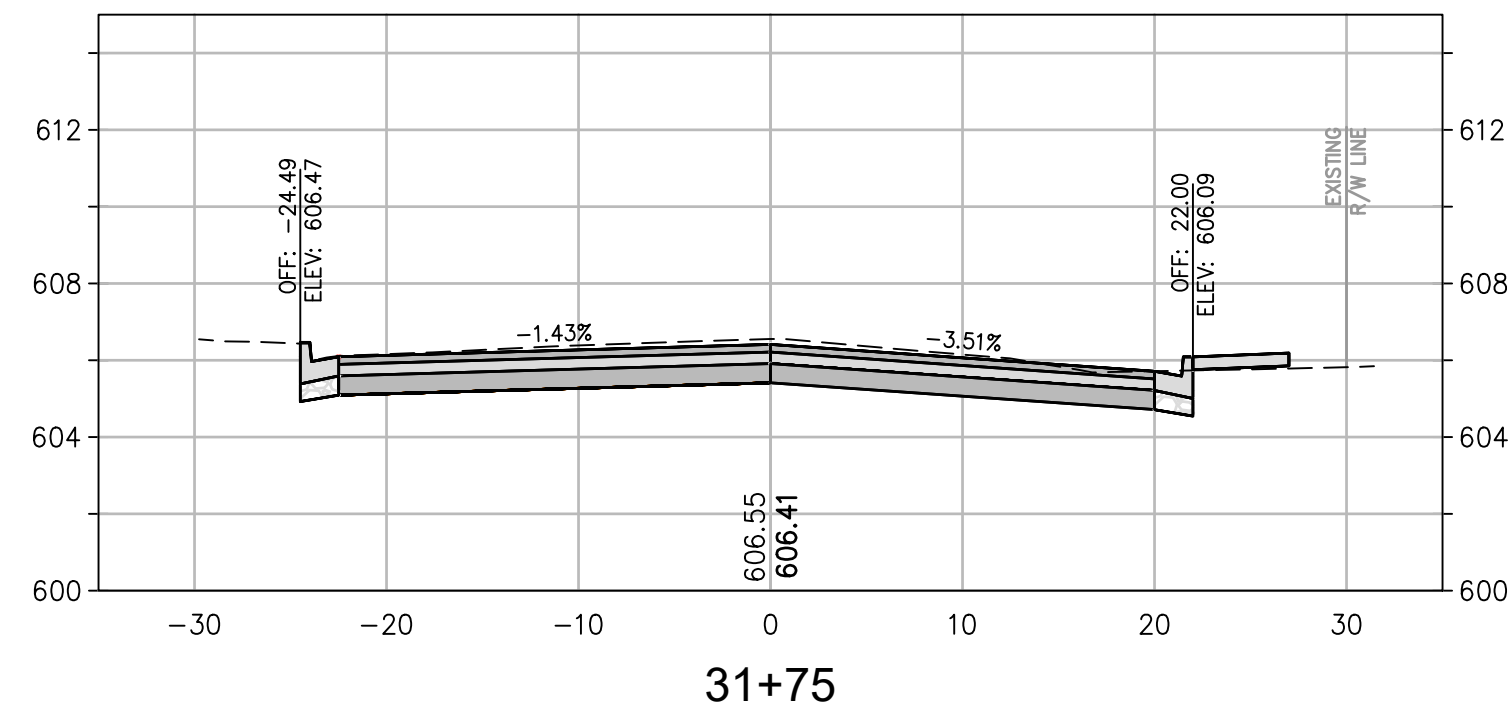
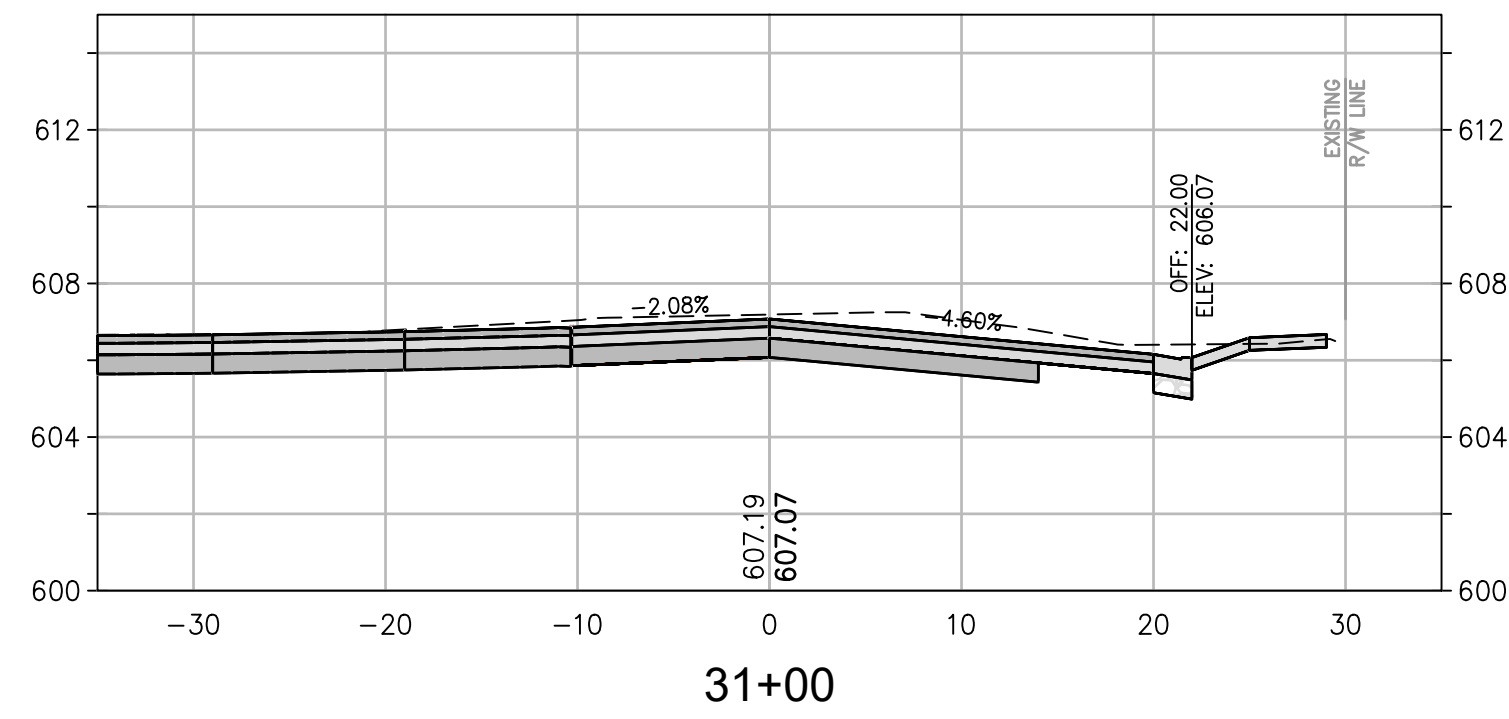
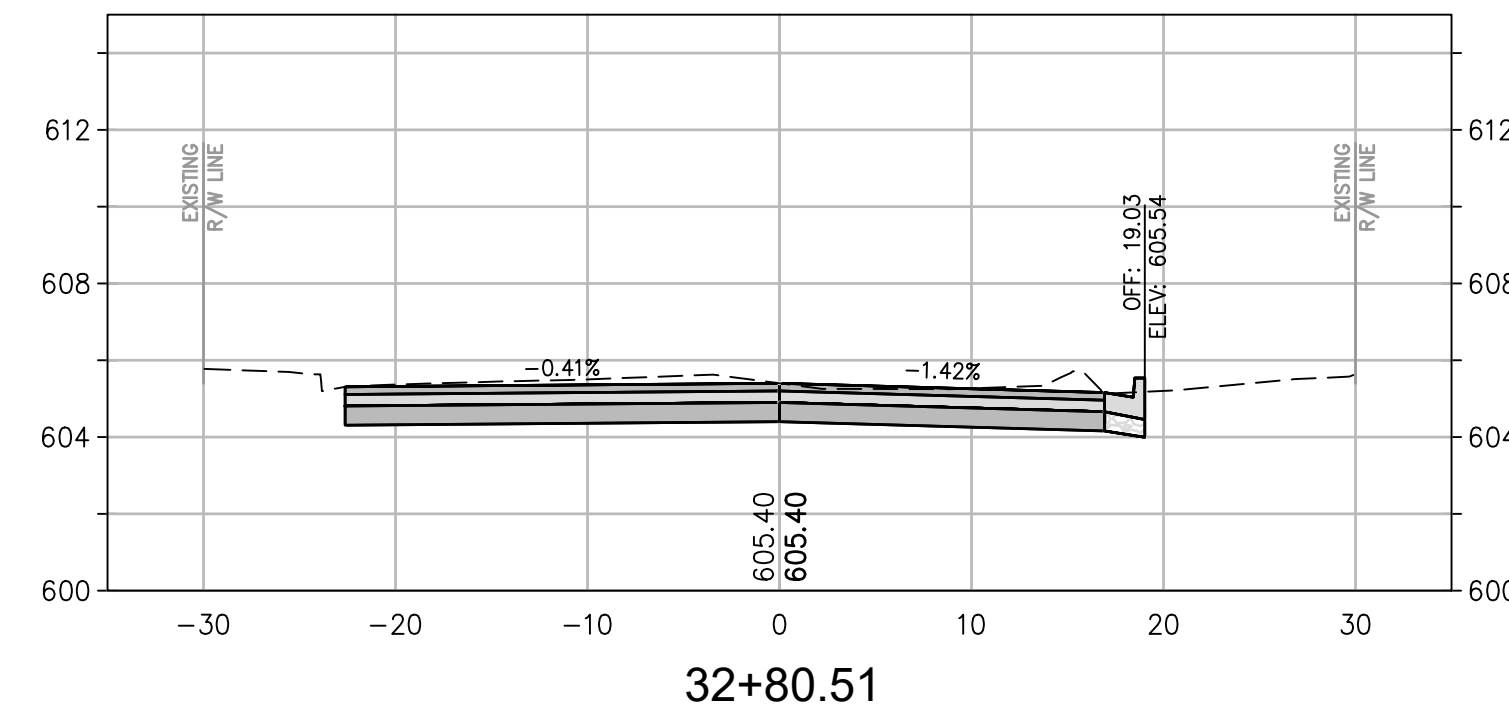
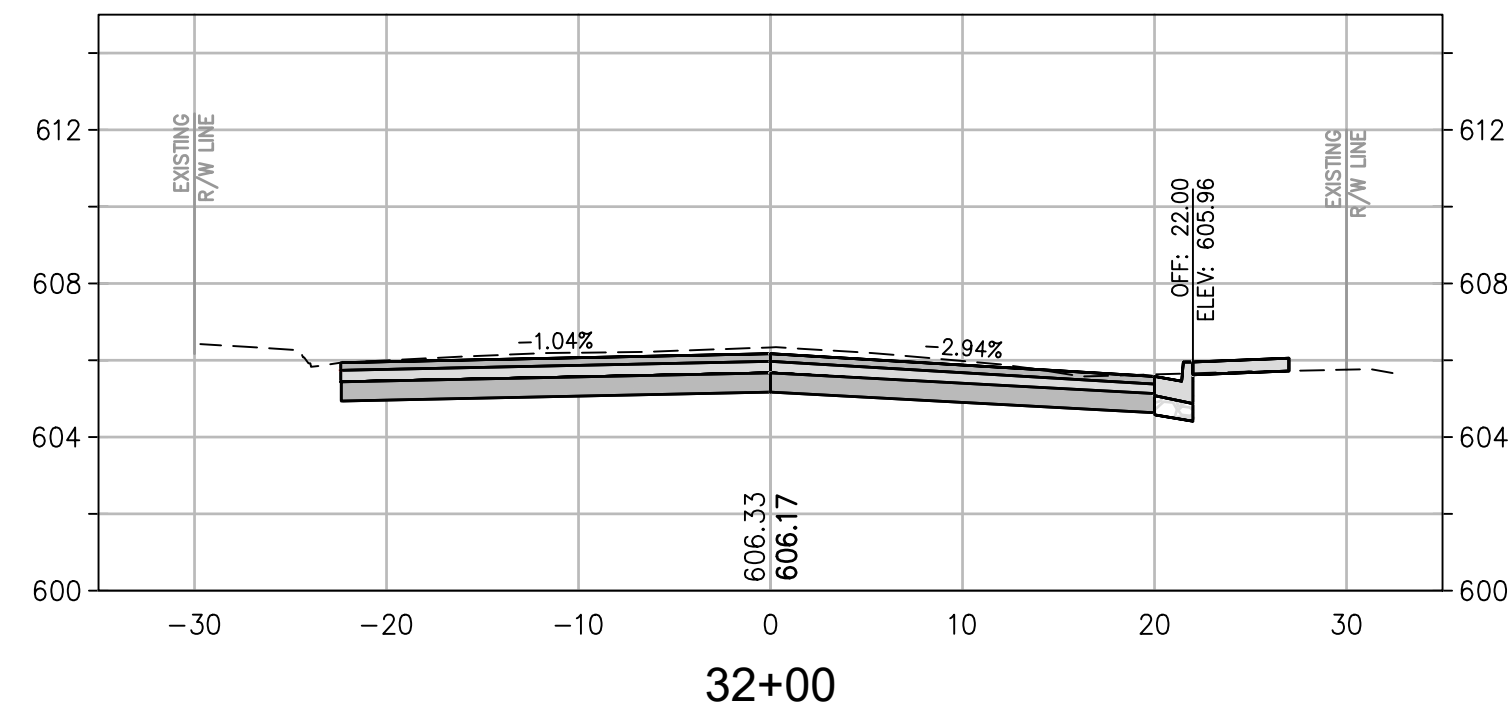
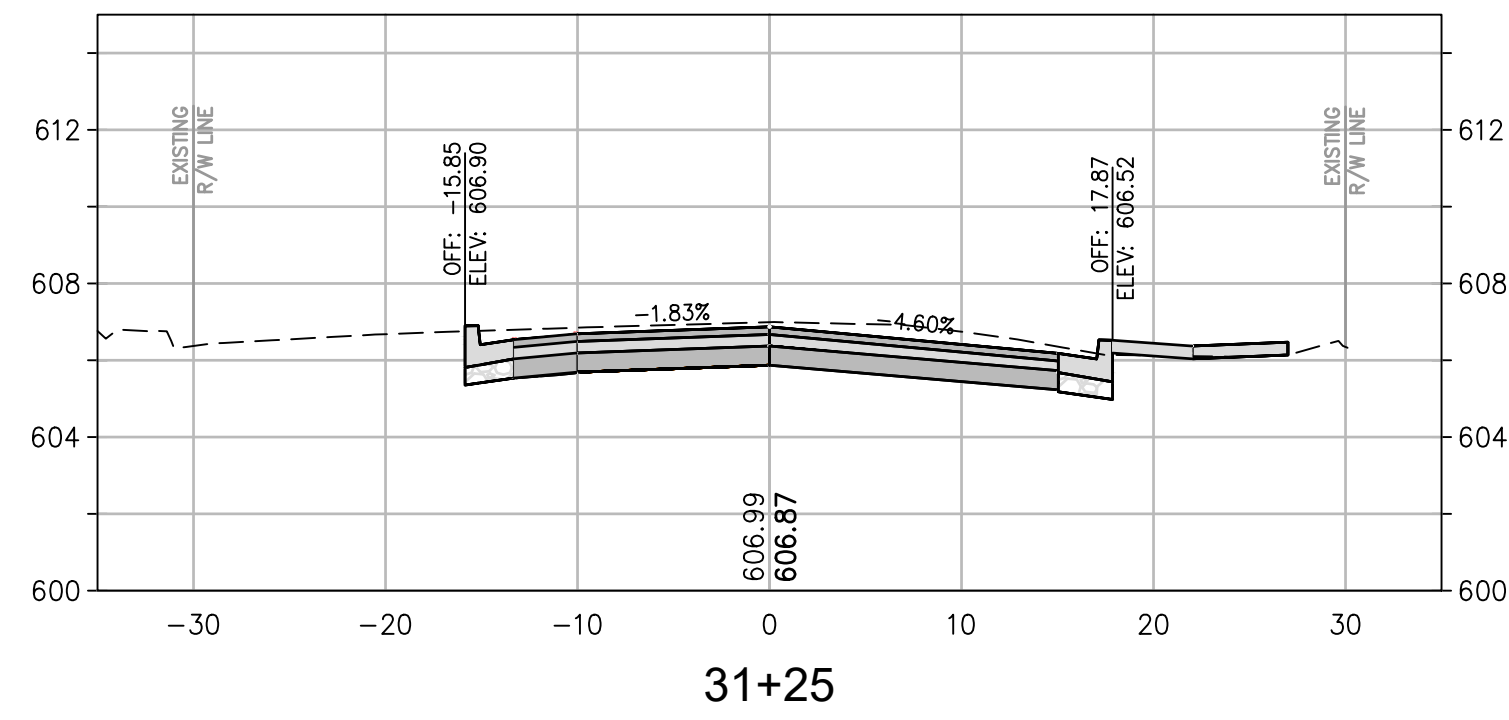
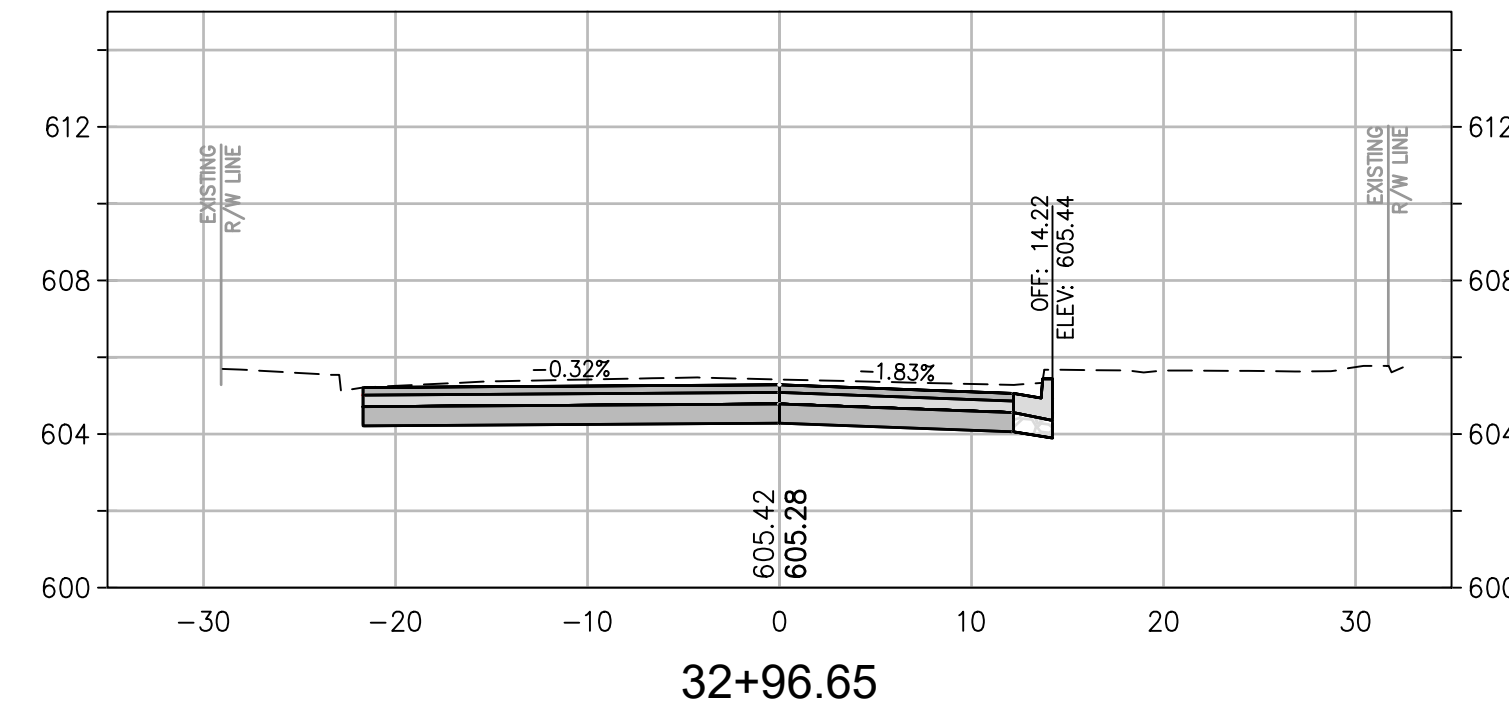
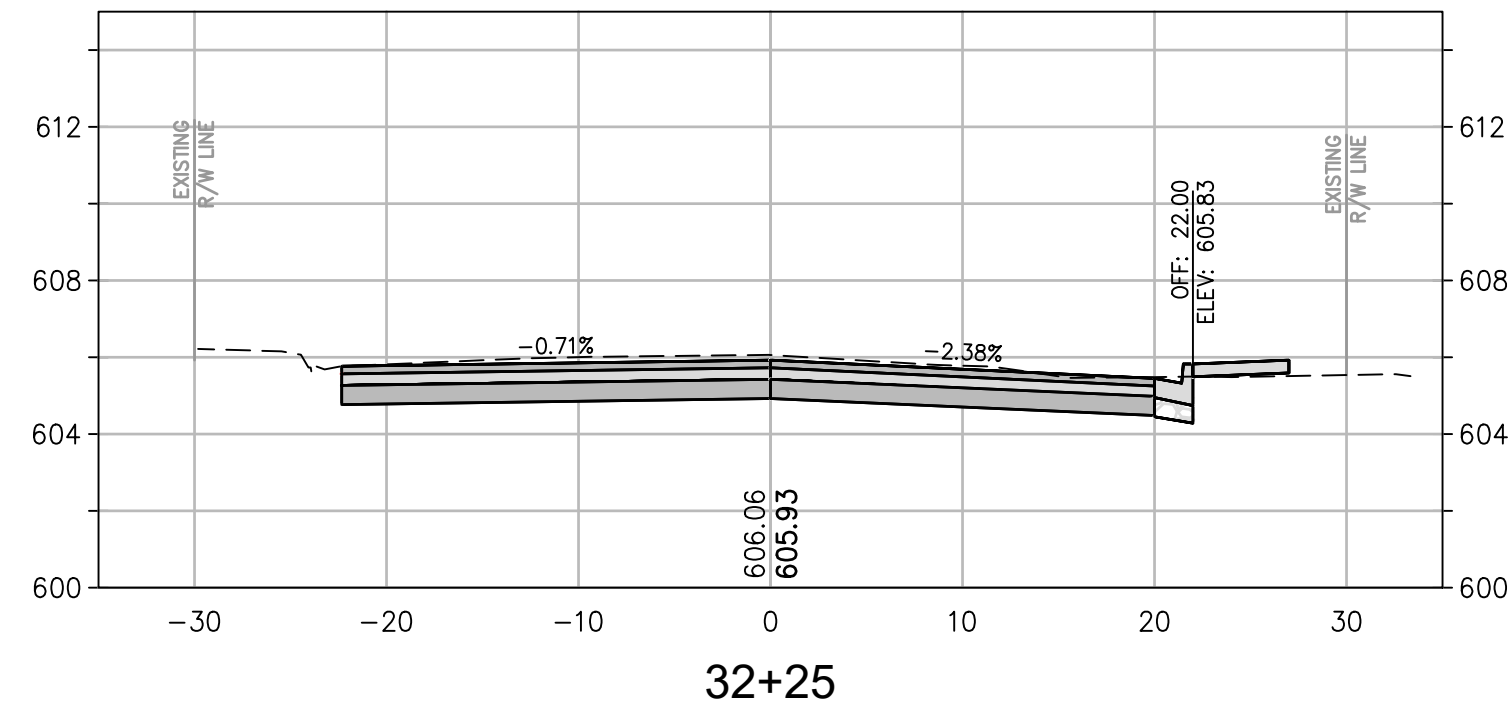
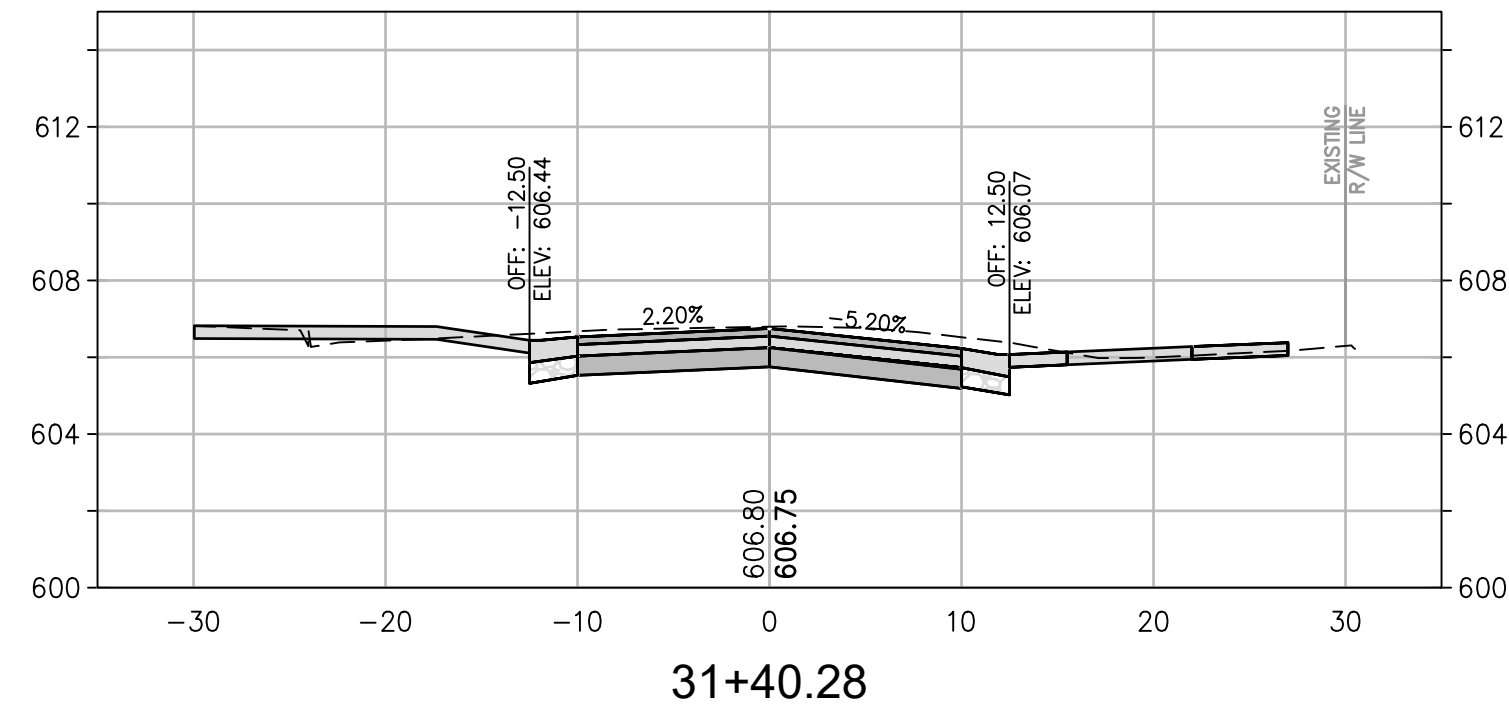
**Coastland Civil Engineering, Inc.**  
 1400 Neotomas Avenue, Santa Rosa, CA 95405  
 707.571.8003 Fax 707.571.8005

CALIFORNIA  
 CLARA AVENUE RECONSTRUCTION PROJECT  
 SPECIFICATION NO. 20-08  
 CITY OF UKIAH  
**CROSS SECTIONS**  
**STA. 28+50 TO STA. 30+50**

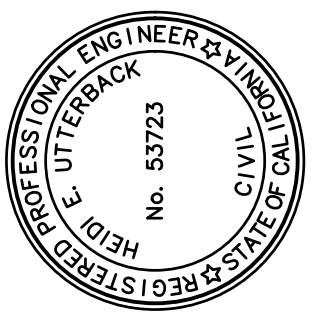
PROJECT NUMBER  
 29-4352  
 DRAWING DATE  
 APRIL 2020  
 SHEET NUMBER  
**27 OF 31**

Xrefs: CCE-ENGINEERS STAMPS-PLAN.dwg; 294352-draw\_spr-RIP2.dwg; 294352-draw\_RR-RAMP-RIP2.dwg  
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 ORIGINAL PLOT DATE:

FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES  
 3  
 2  
 1



CROSS SECTION SCALES  
 HORIZ: 1" = 10'  
 VERT: 1" = 5'



PREPARED UNDER THE DIRECTION OF  
 Heidi E. Utterback 4/23/2020  
 HEIDI E. UTTERBACK, RCE 53723 DATE  
 DESIGNED BY WJK  
 DRAWN BY WJK  
 REVIEWED BY HEU

**Coastland Civil Engineering, Inc.**  
 1400 Neotomas Avenue, Santa Rosa, CA 95405  
 707.571.8003 Fax

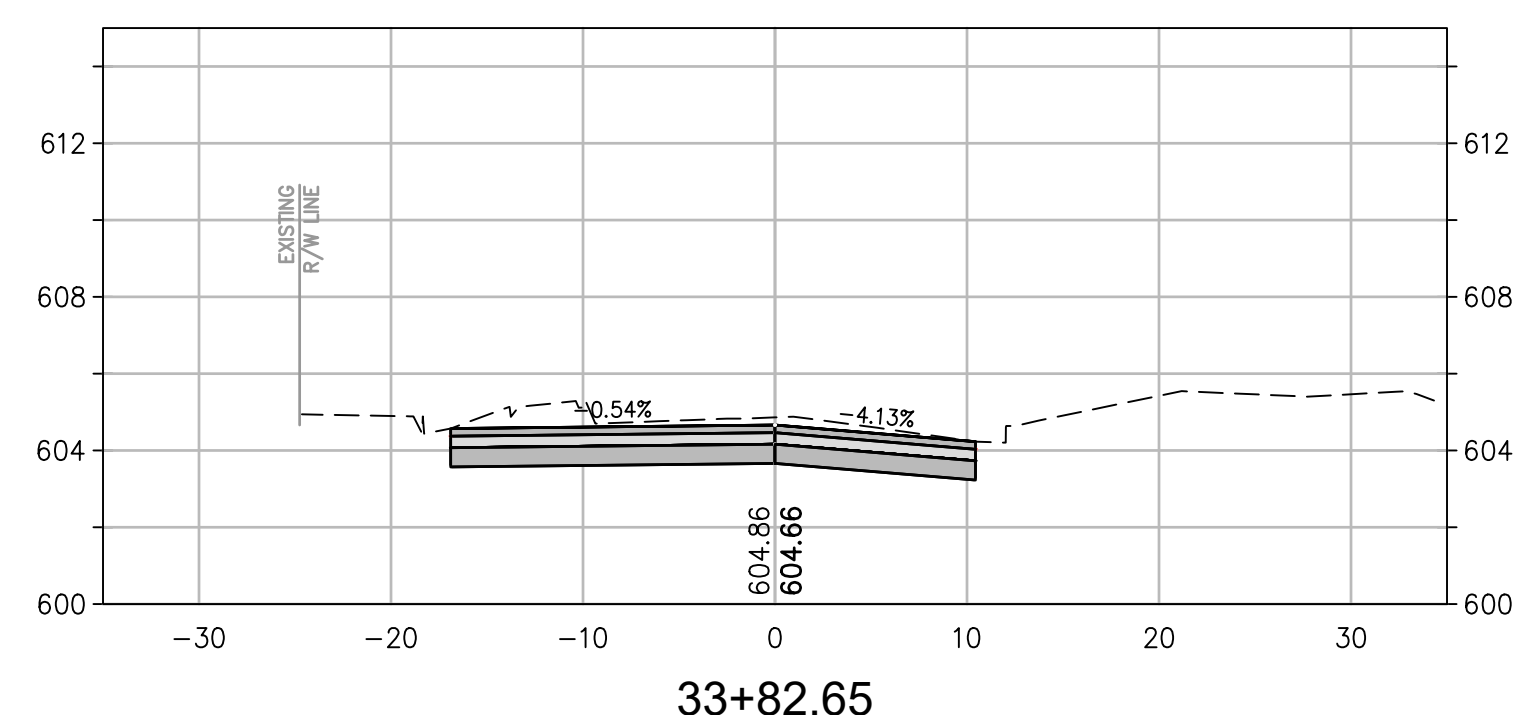
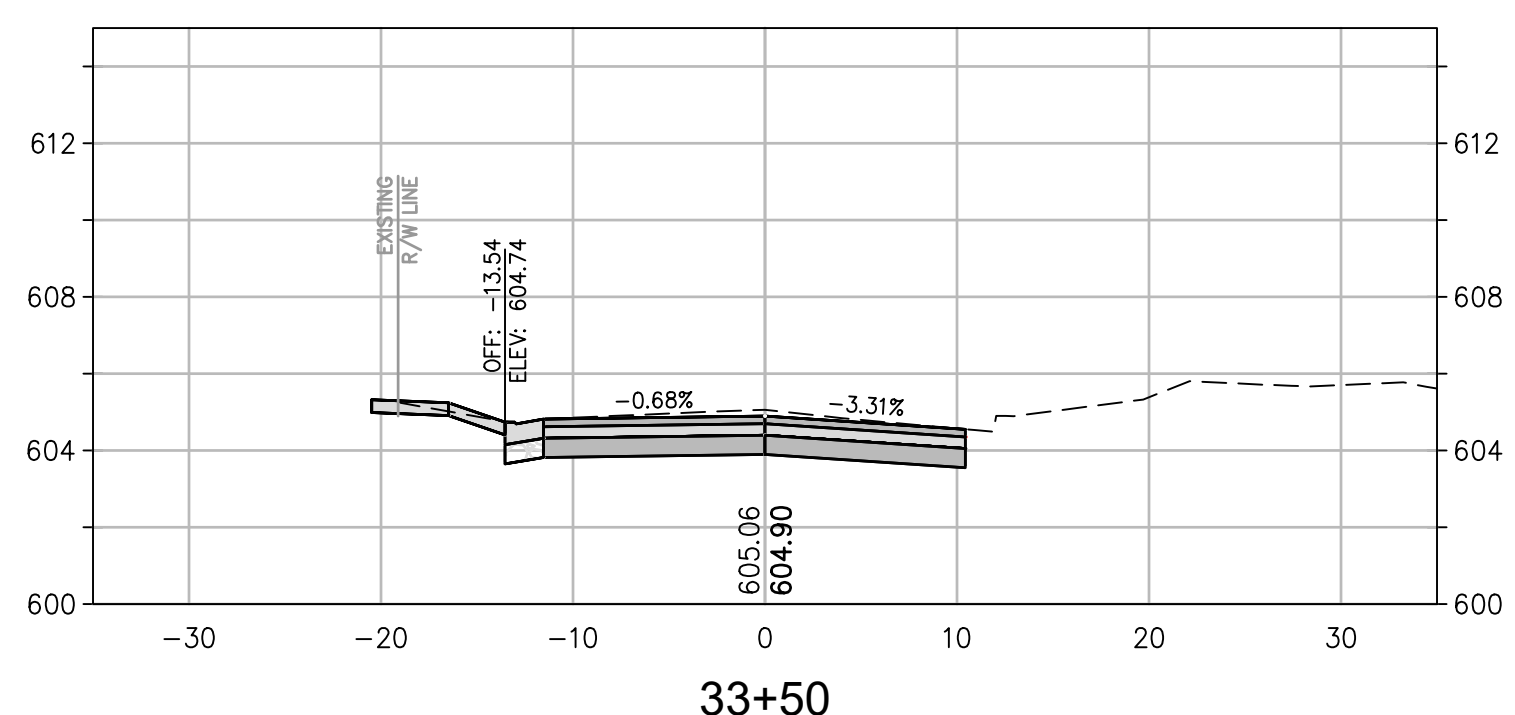
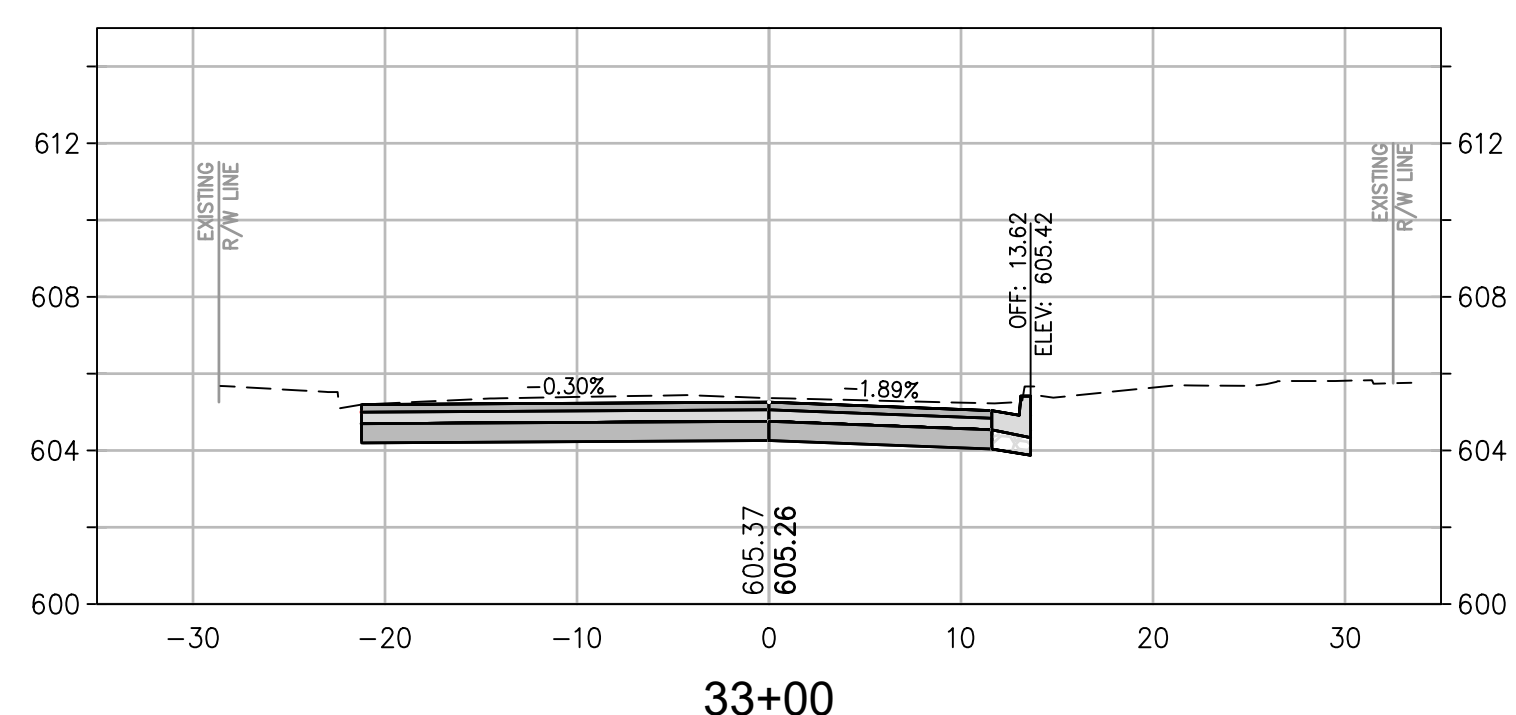
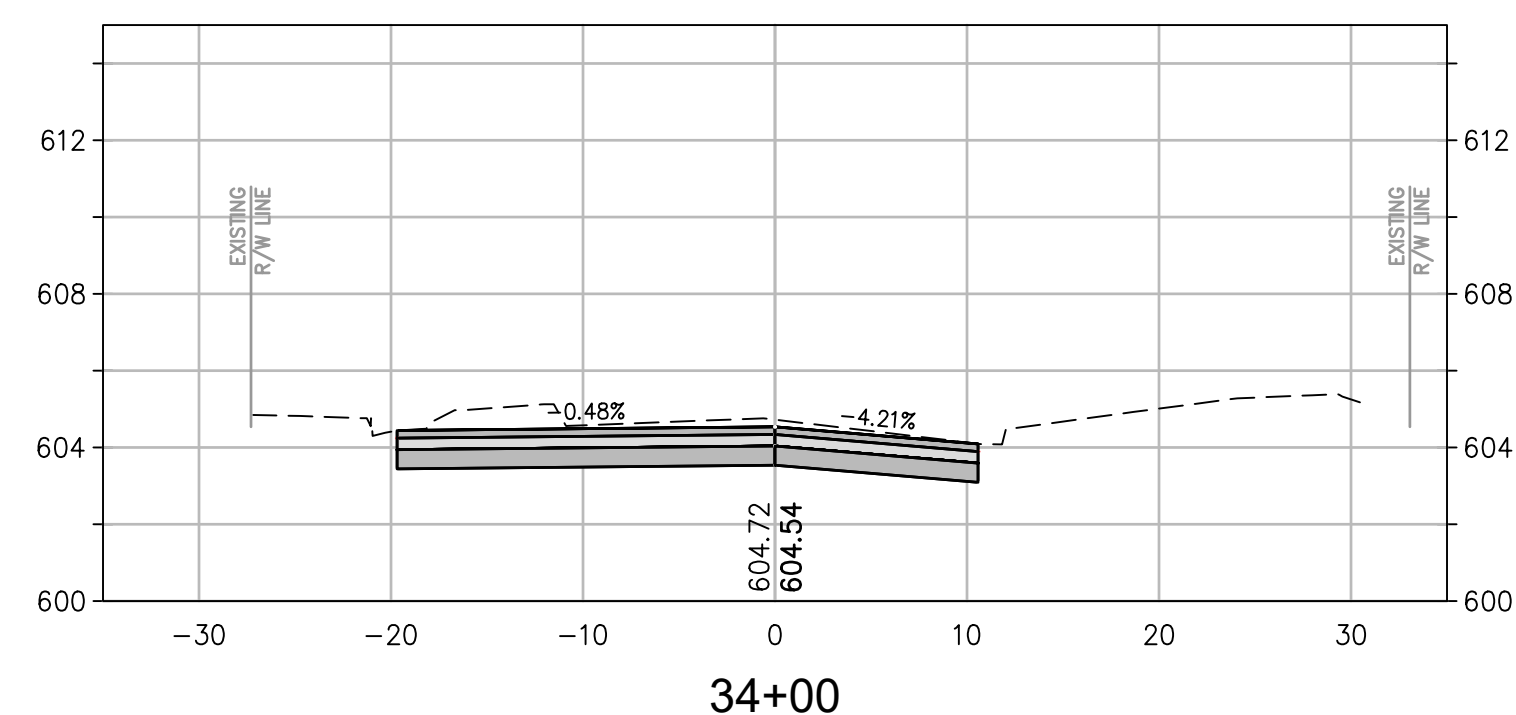
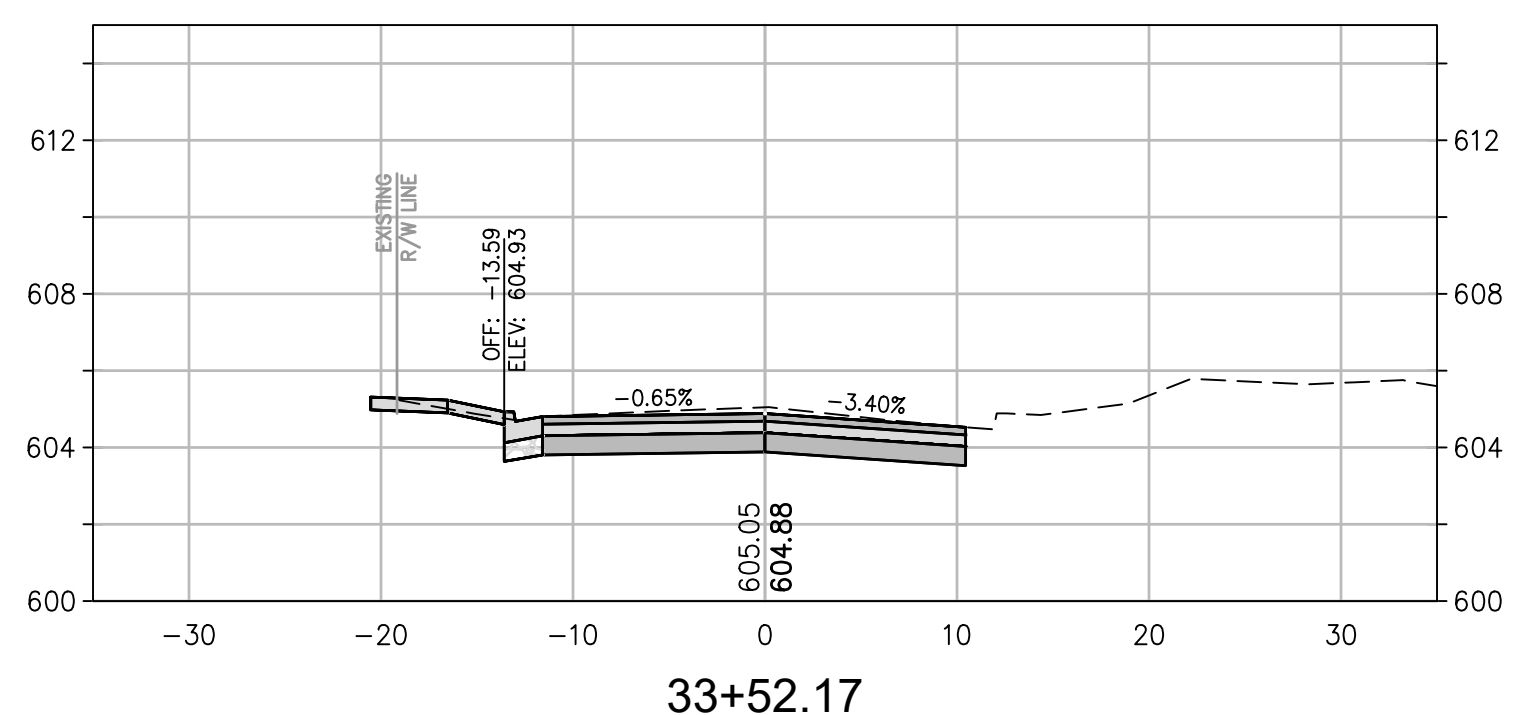
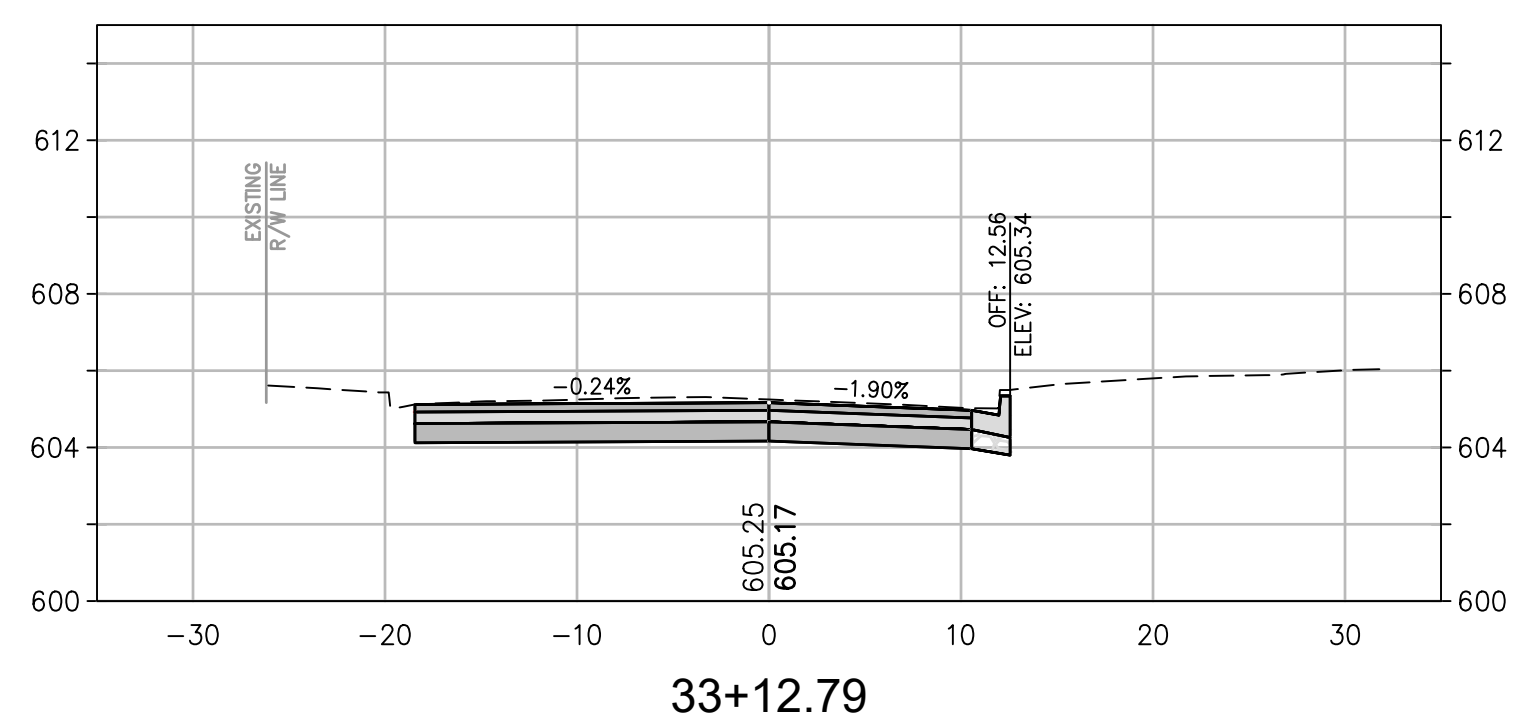
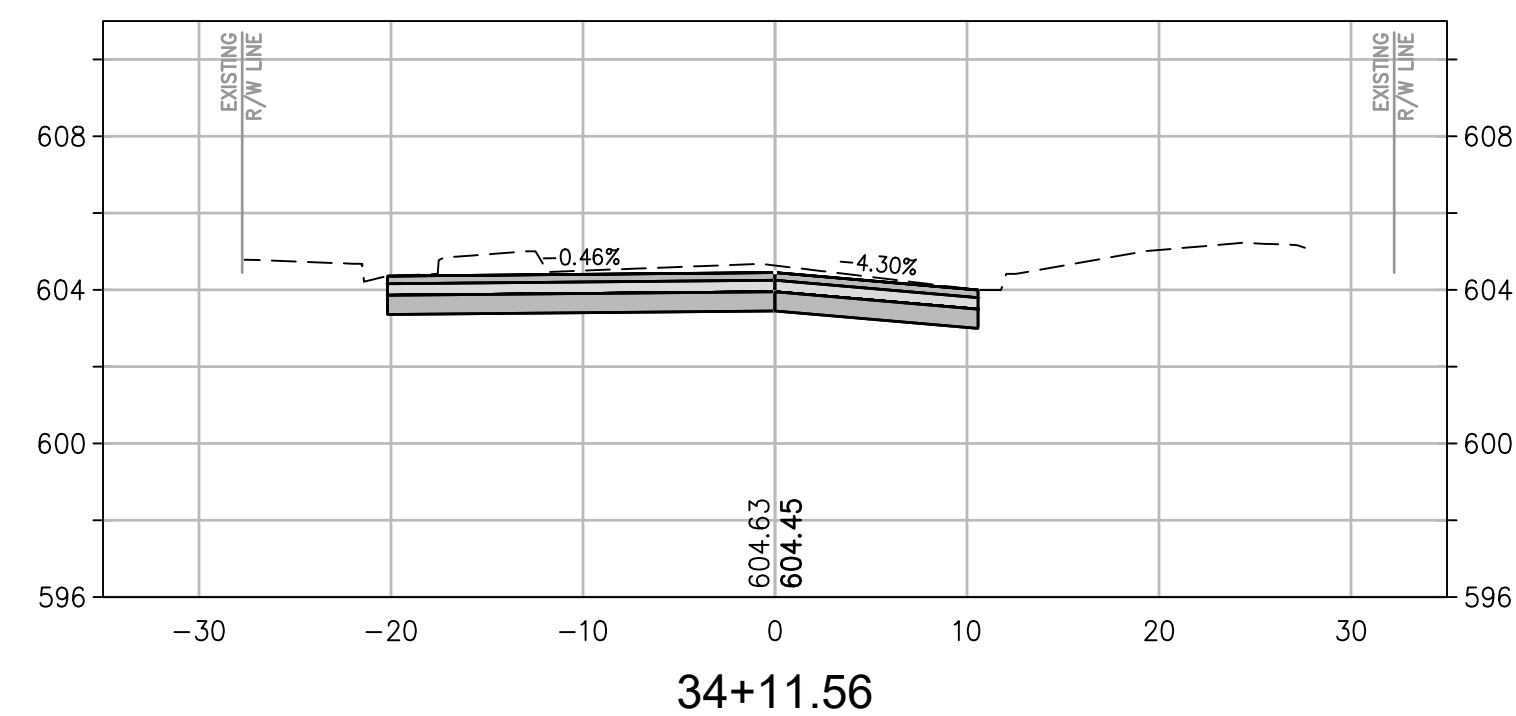
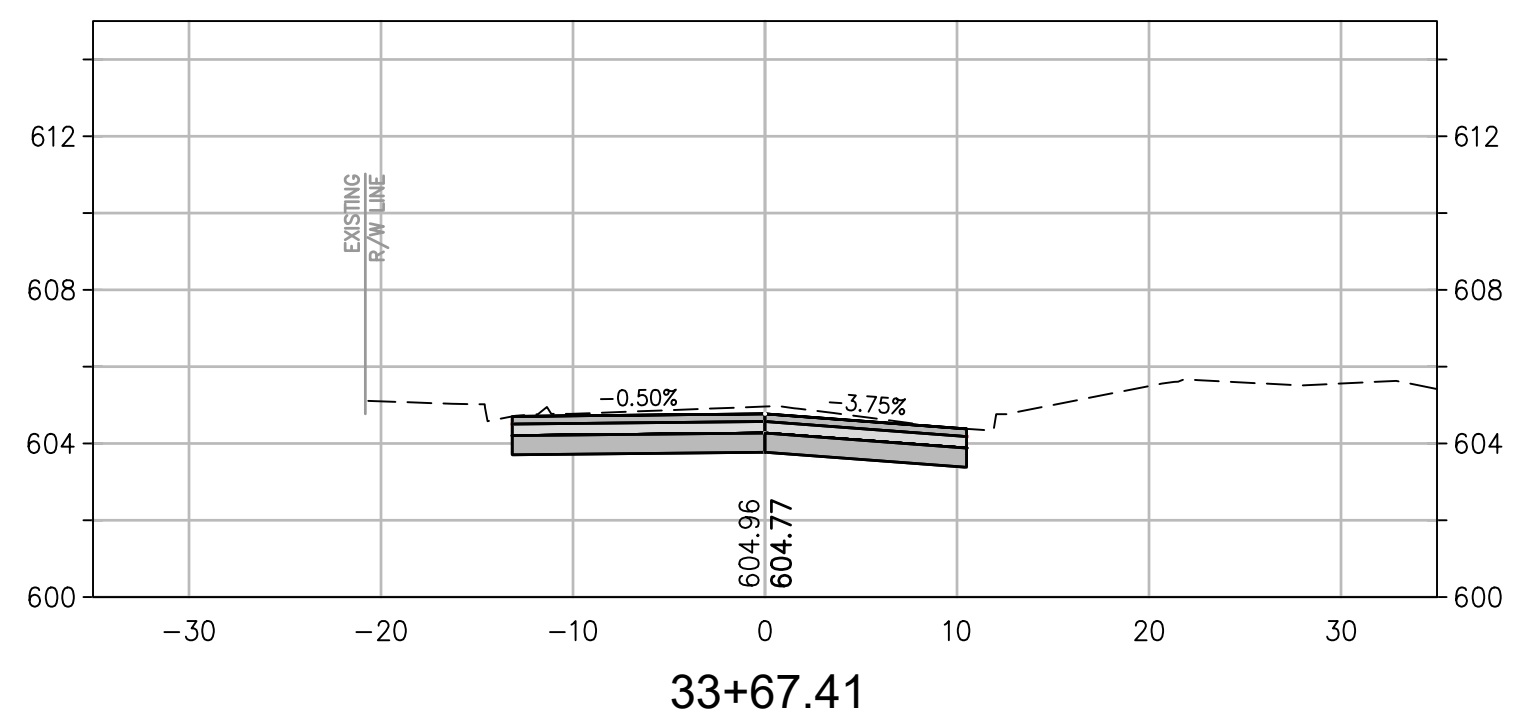
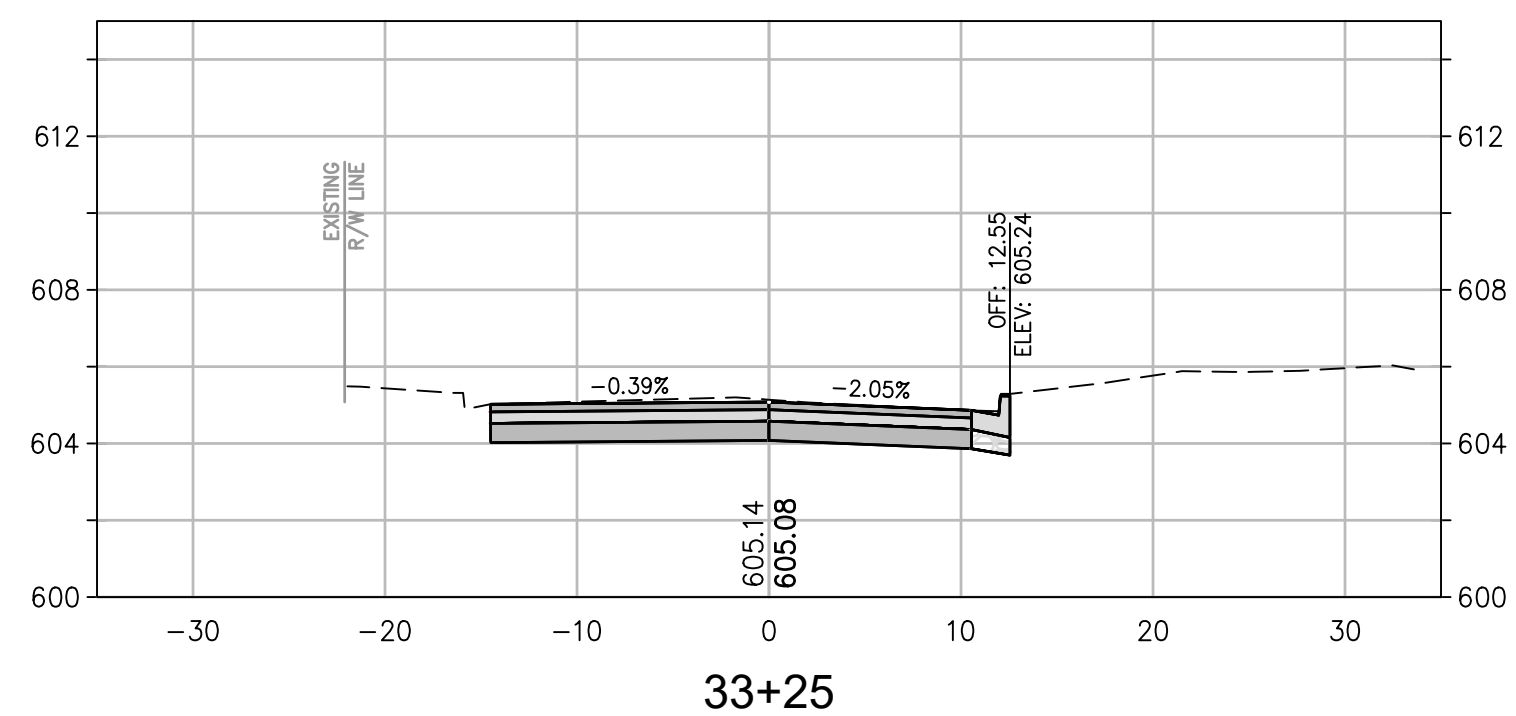
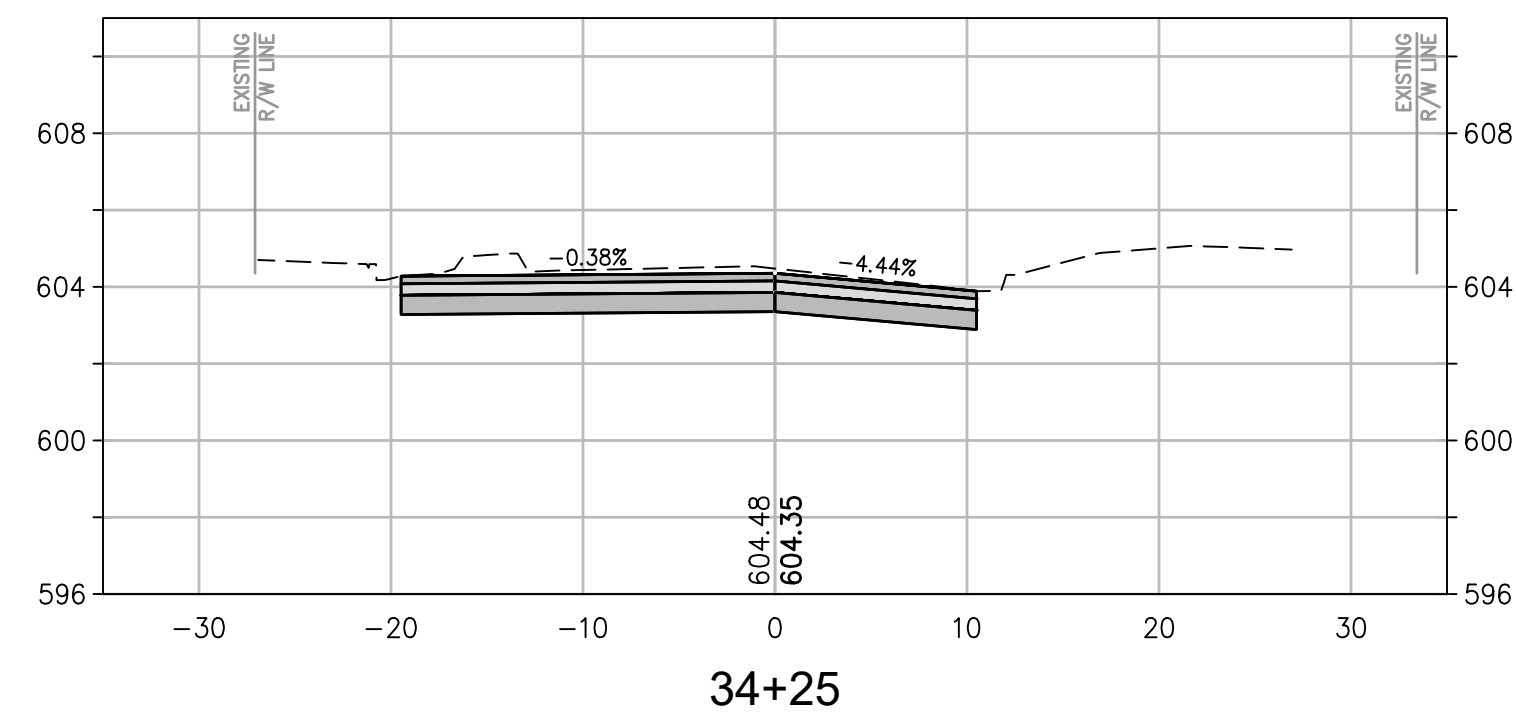
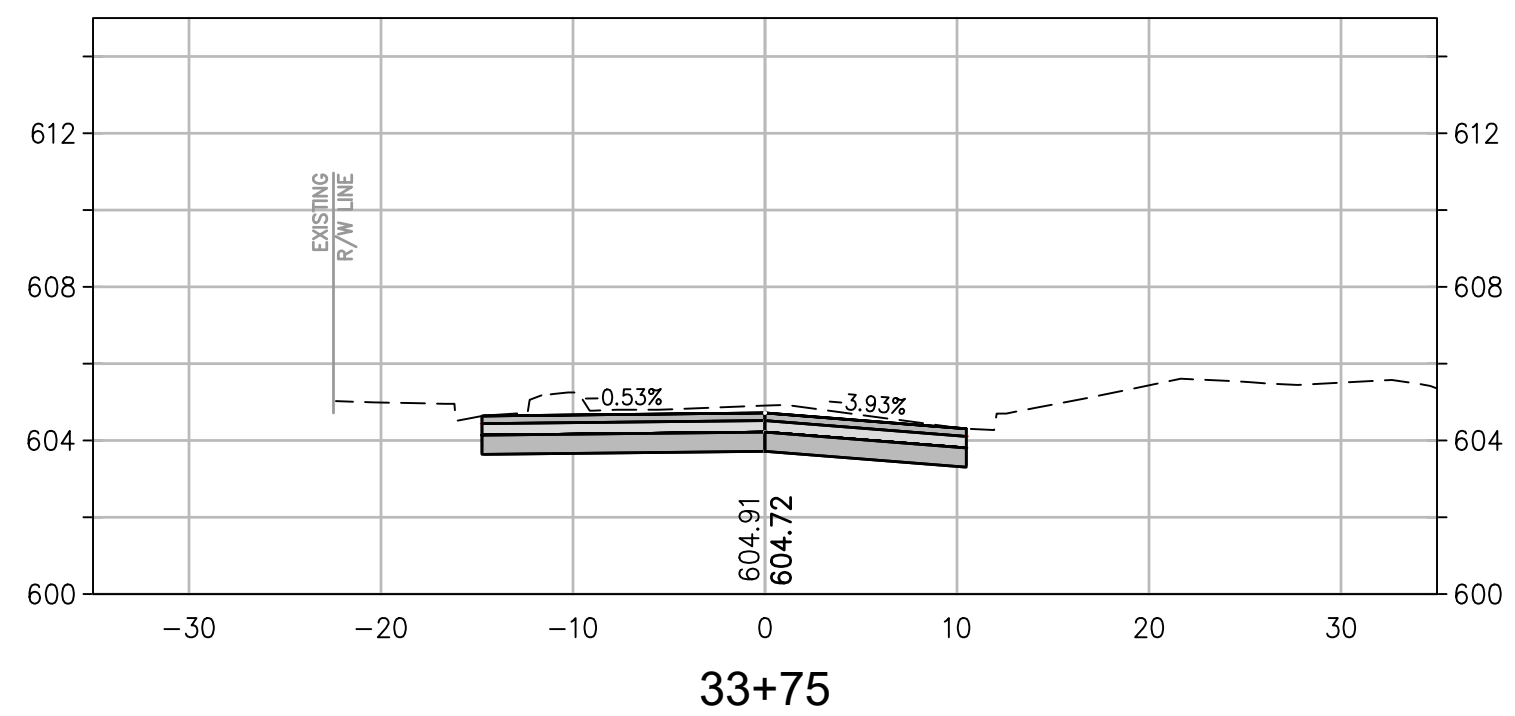
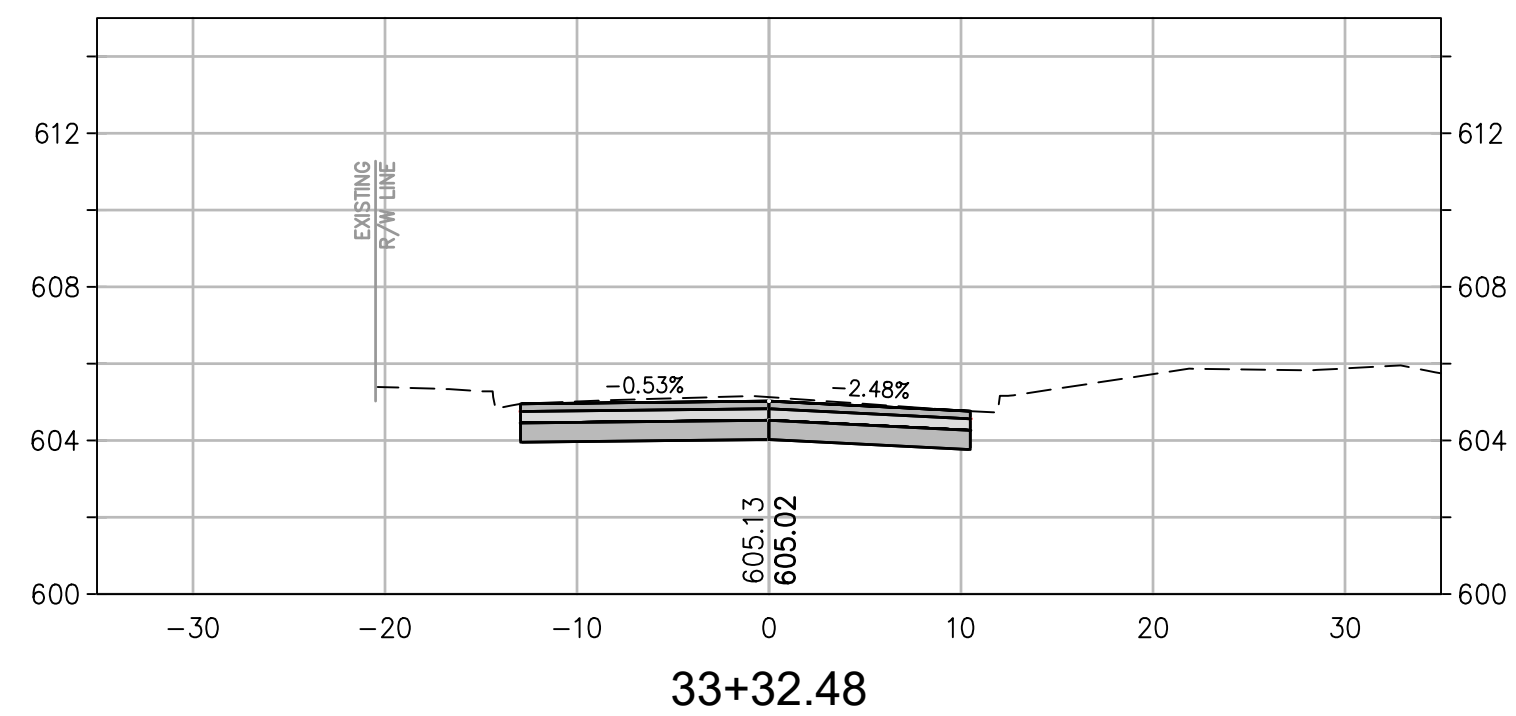
CALIFORNIA  
 CLARA AVENUE RECONSTRUCTION PROJECT  
 SPECIFICATION NO. 20-08  
 CITY OF UKIAH  
**CROSS SECTIONS**  
**STA. 30+75 TO STA. 32+96.65**

PROJECT NUMBER  
 29-4352  
 DRAWING DATE  
 APRIL 2020  
 SHEET NUMBER  
**28 OF 31**

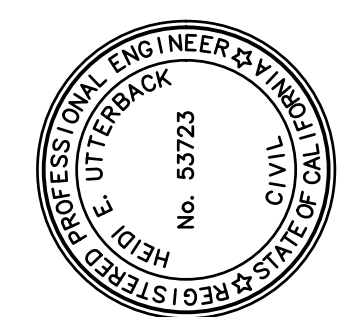
ORIGINAL PLOT DATE:

FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

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CROSS SECTION SCALES  
 HORIZ: 1" = 10'  
 VERT: 1" = 5'



PREPARED UNDER THE DIRECTION OF  
 Heidi E. Utterback 4/23/2020  
 HEIDI E. UTTERBACK, RCE 53723 DATE  
 DESIGNED BY WJK  
 DRAWN BY WJK  
 REVIEWED BY HEU

**Coastland Civil Engineering, Inc.**  
 1400 Neotomas Avenue, Santa Rosa, CA 95405  
 707.571.8003 Fax  
 707.571.8005

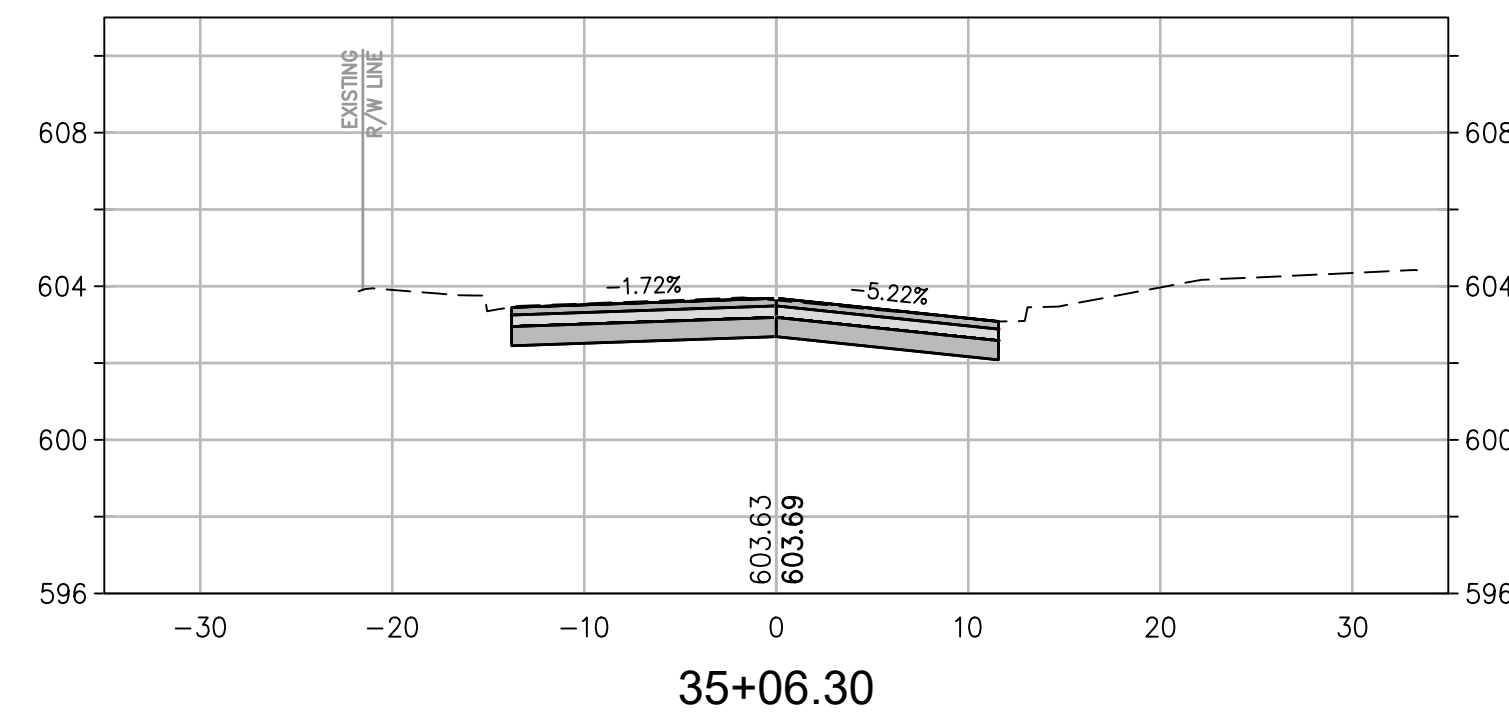
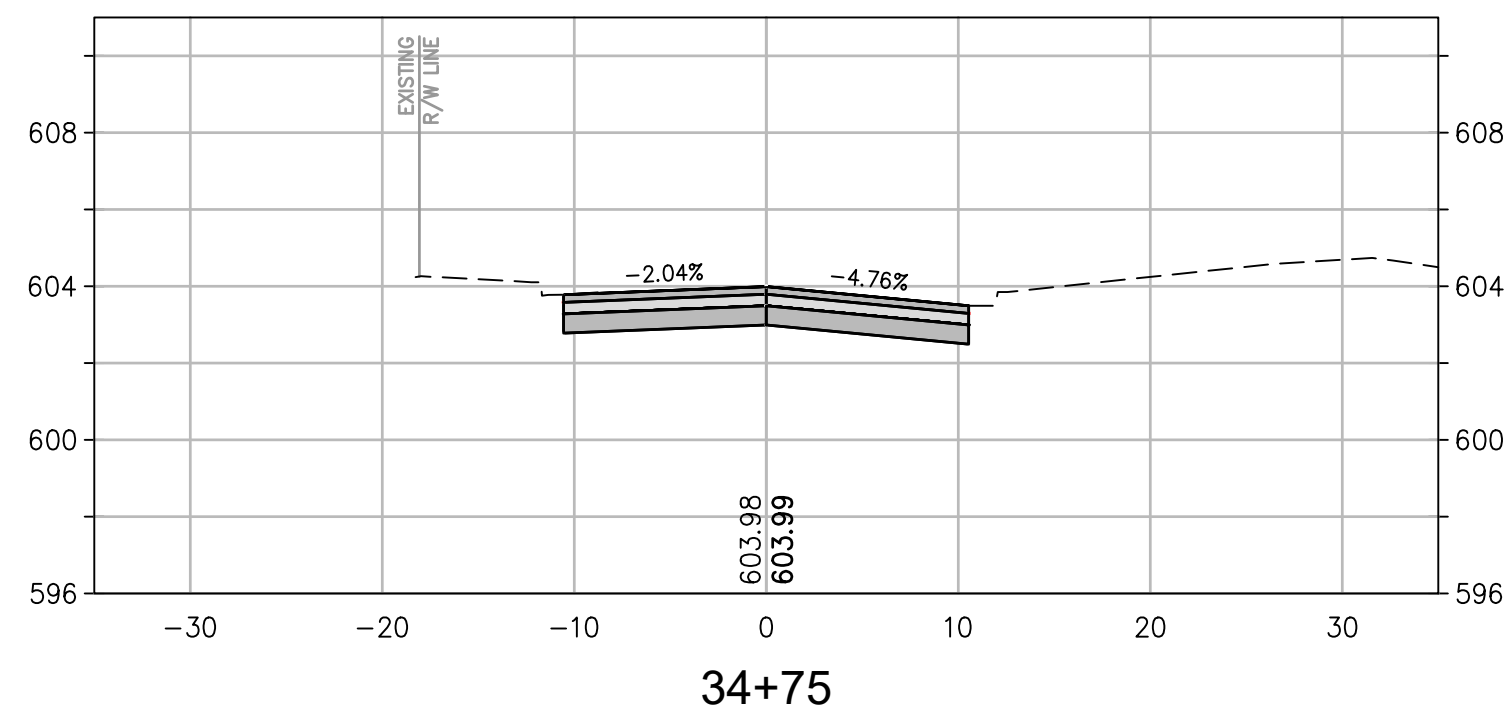
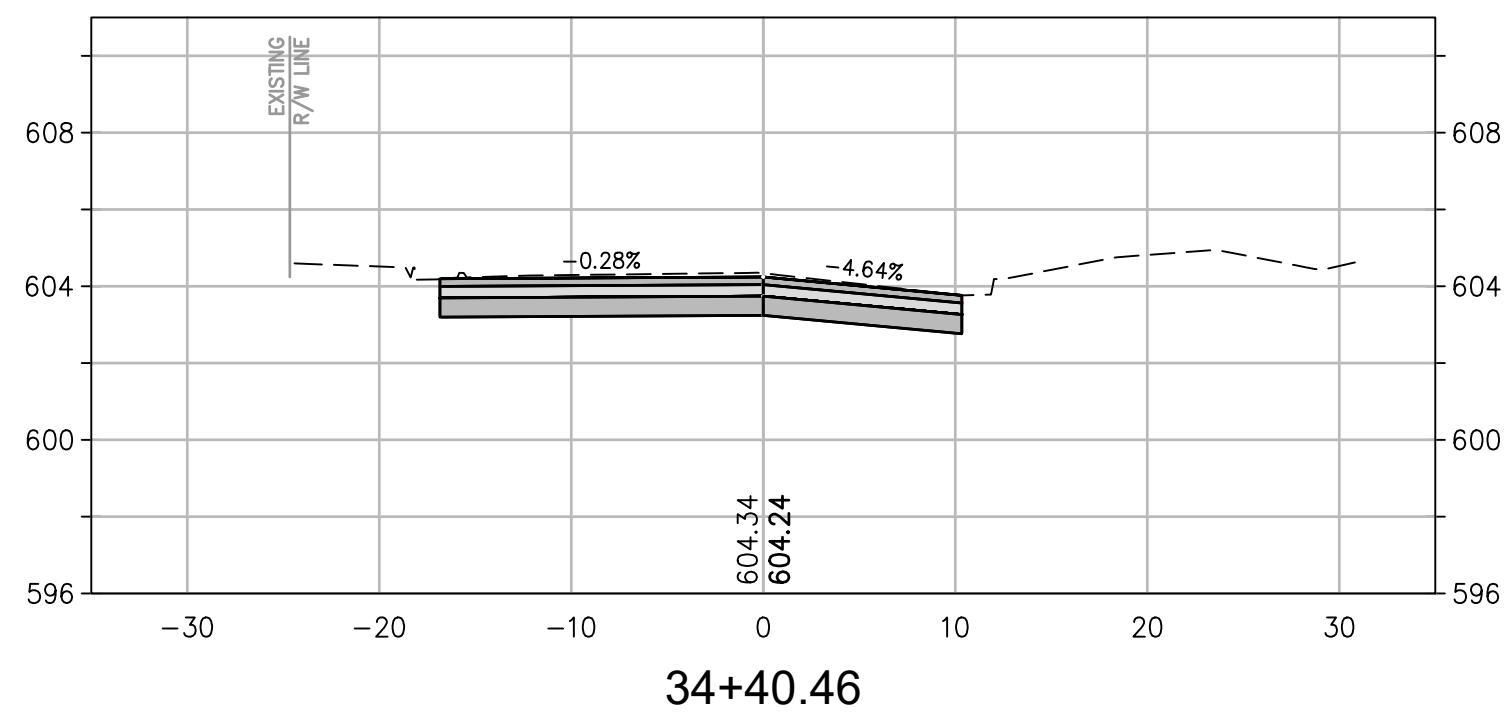
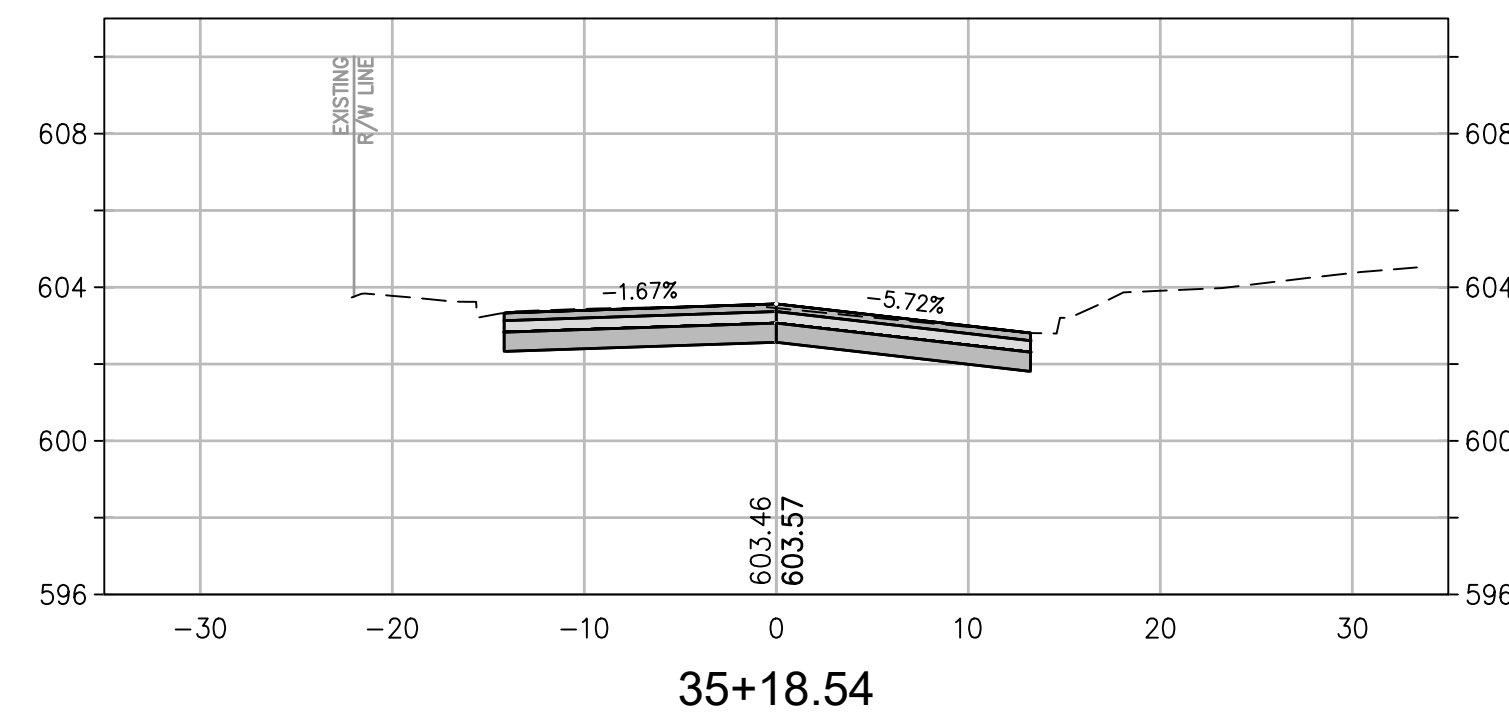
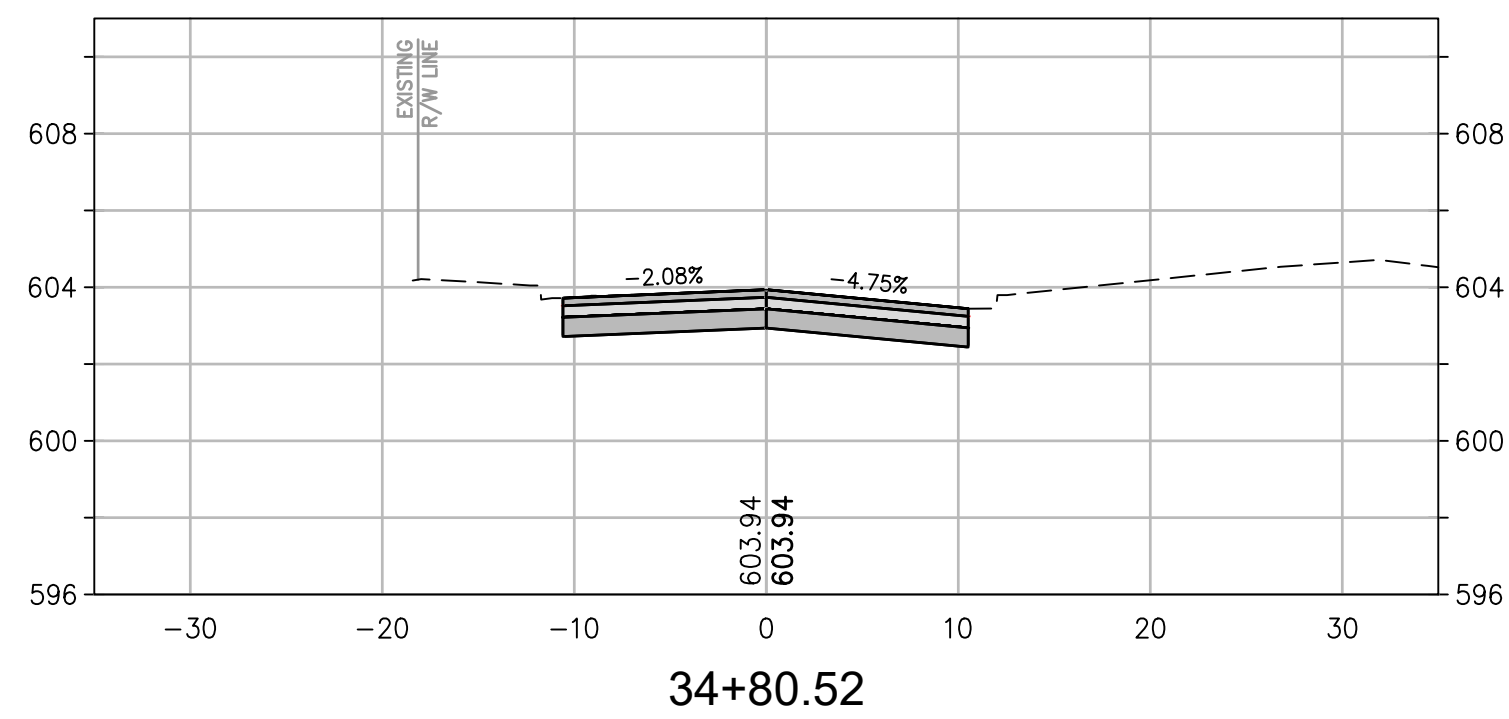
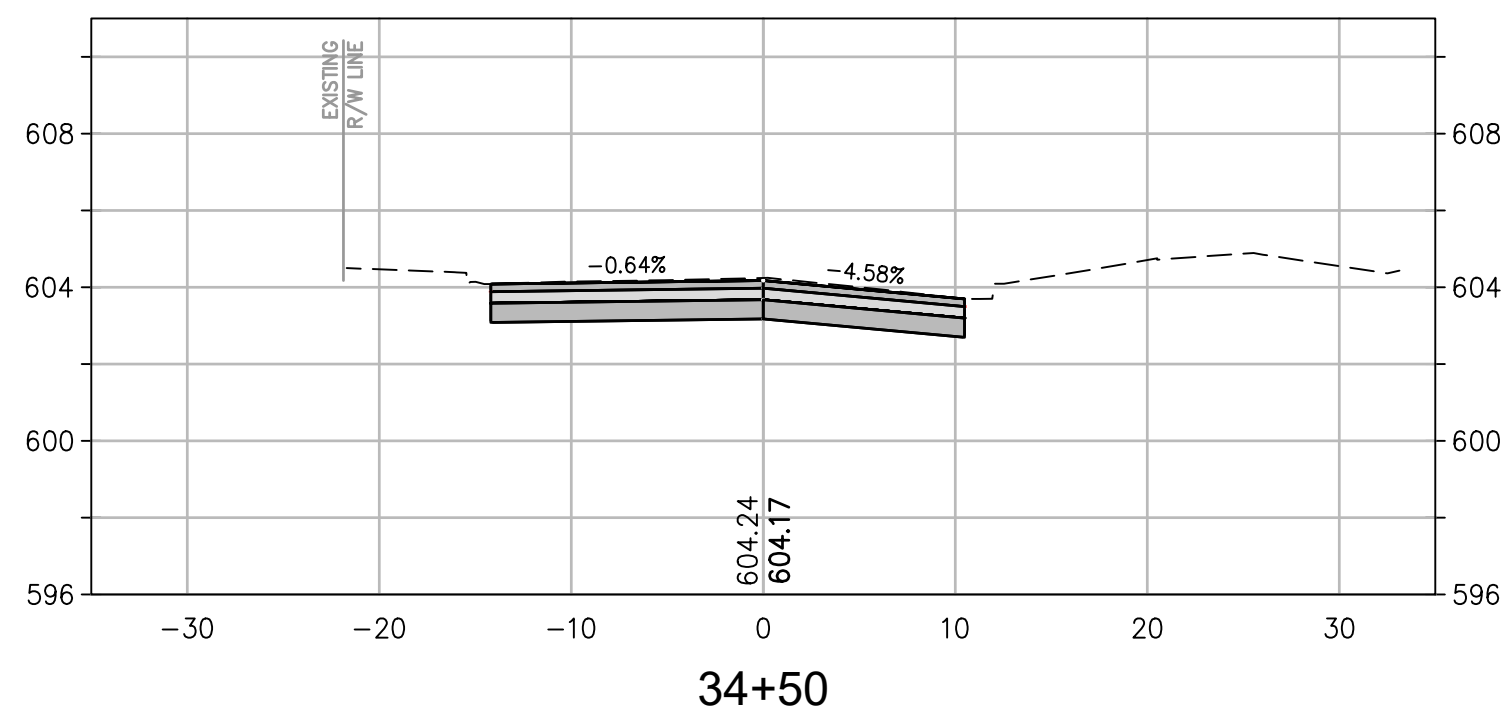
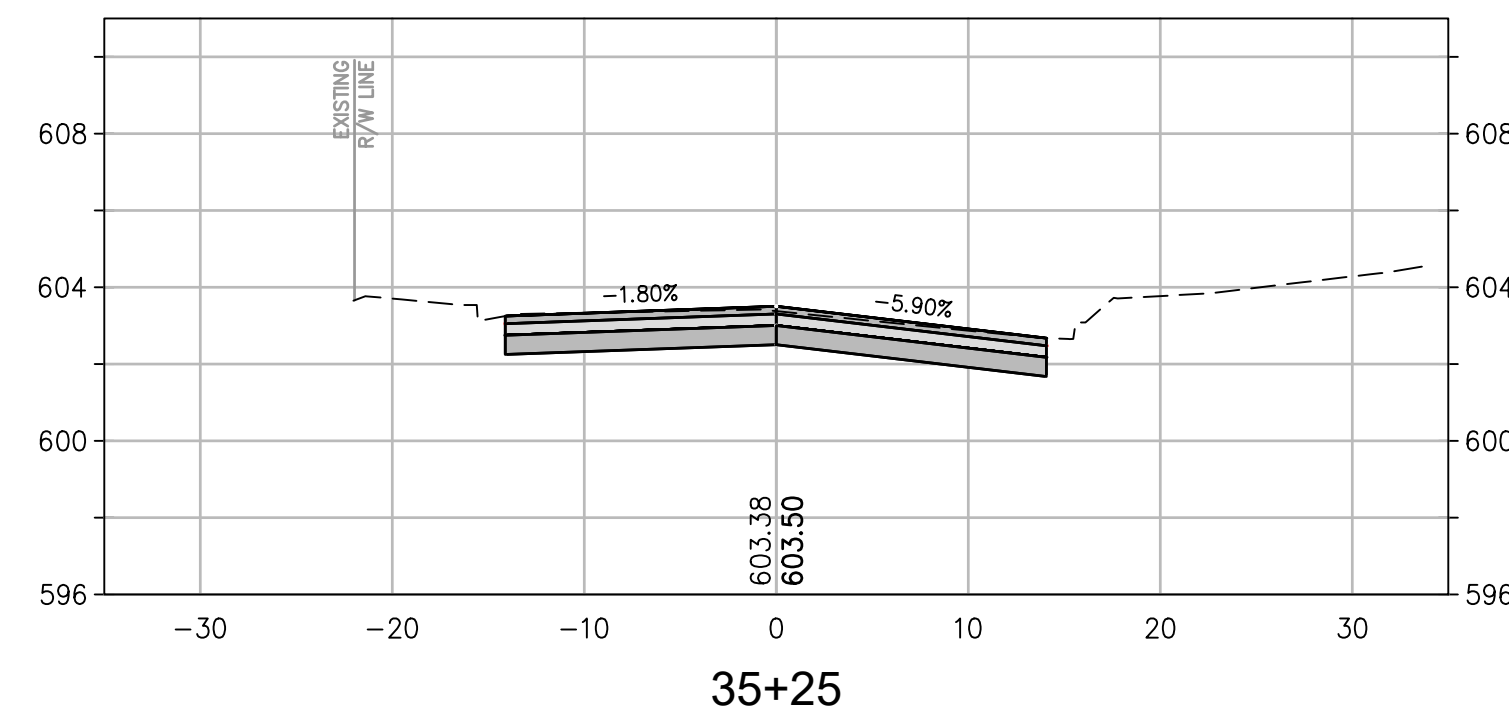
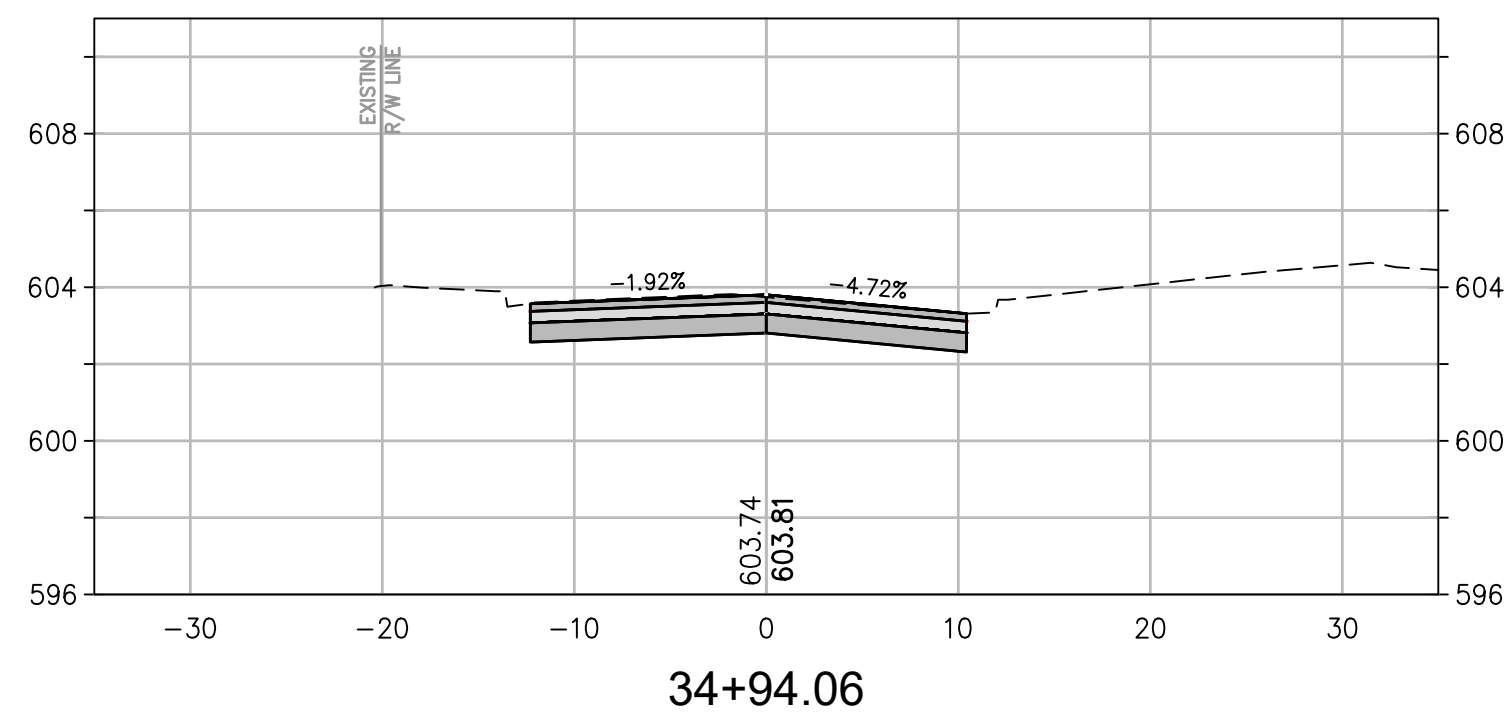
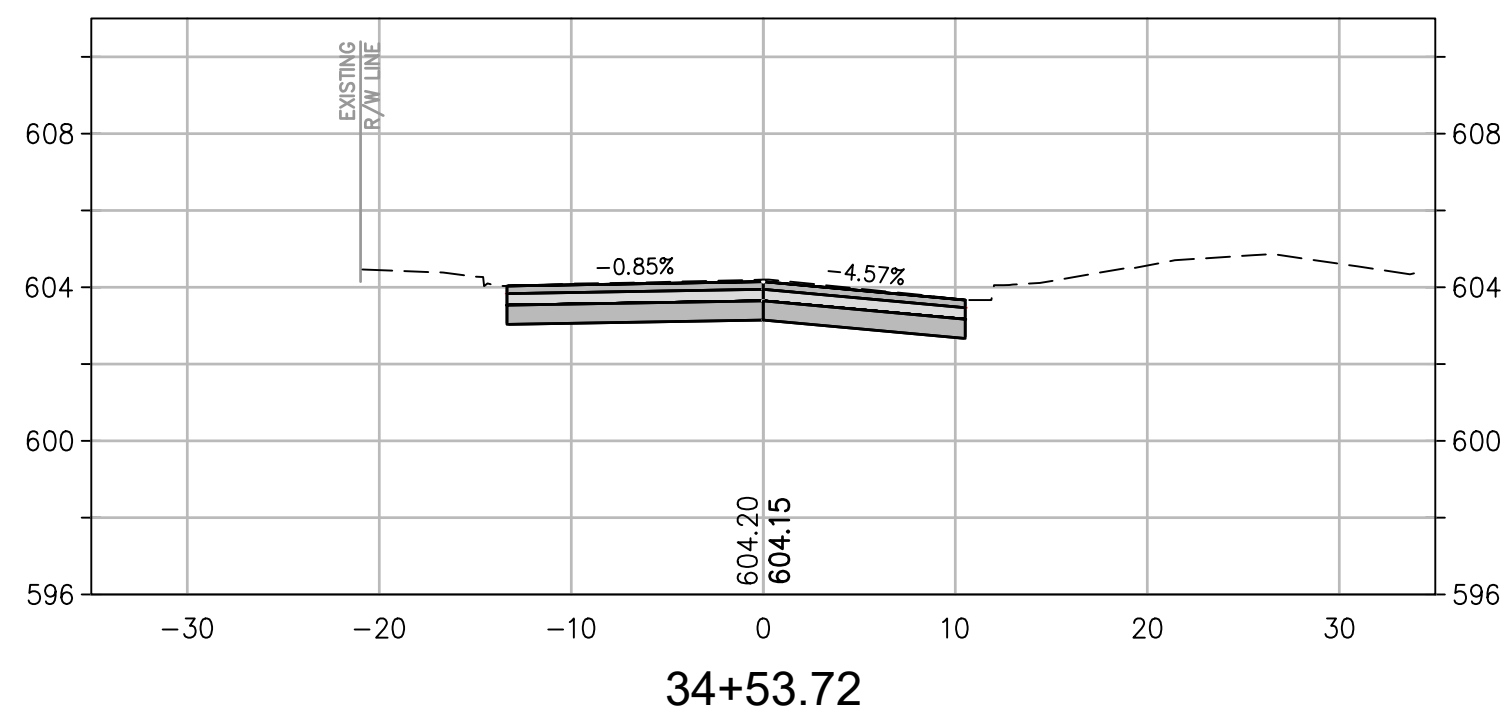
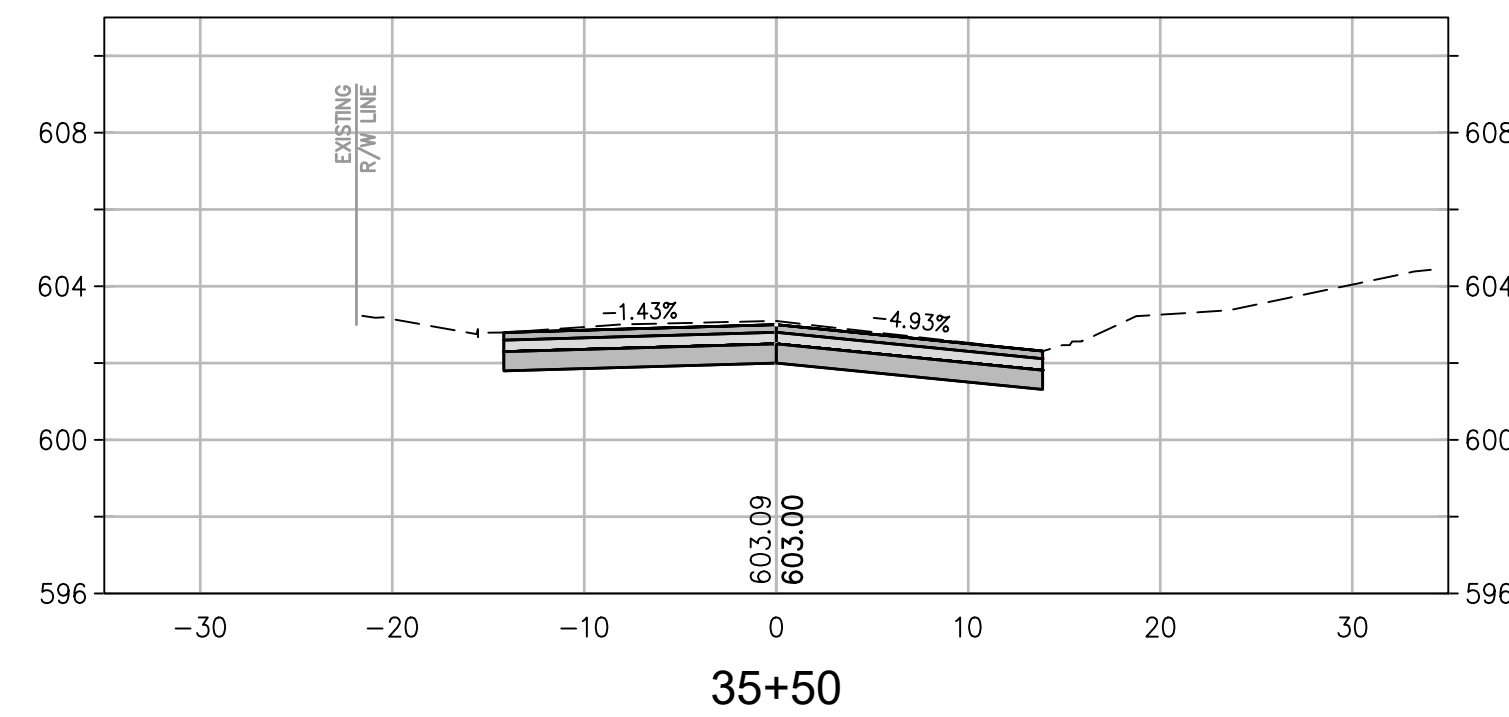
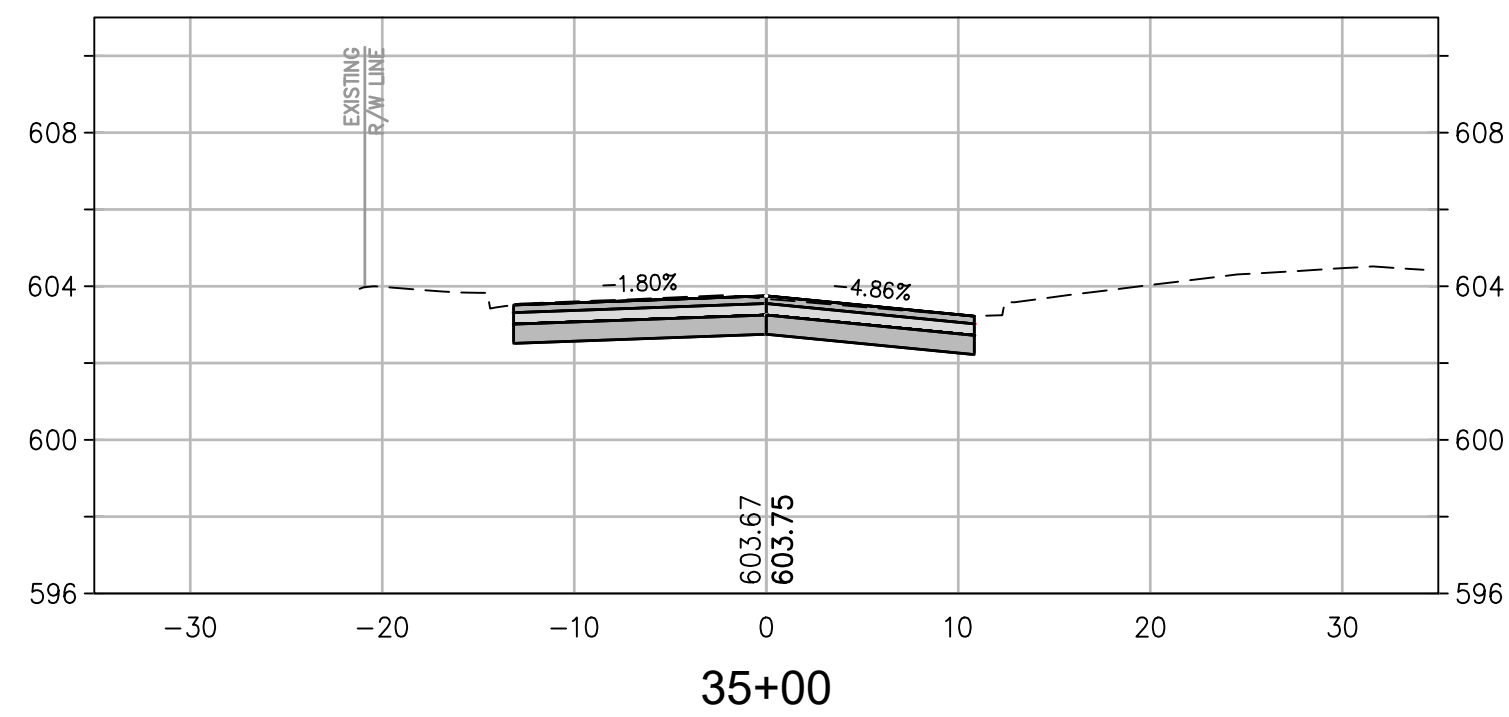
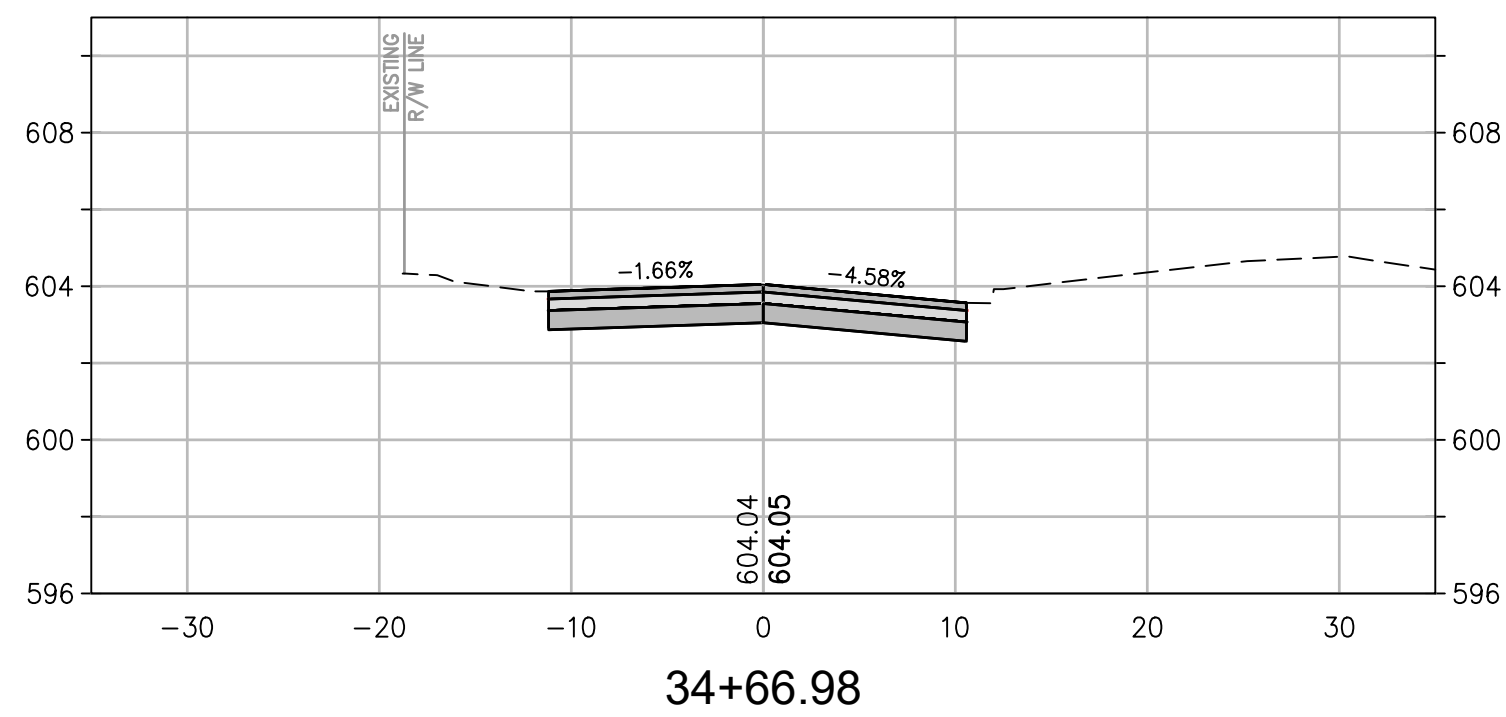
CITY OF UKIAH CALIFORNIA  
 CLARA AVENUE RECONSTRUCTION PROJECT  
 SPECIFICATION NO. 20-08  
**CROSS SECTIONS**  
**STA. 33+00 TO STA. 34+25**

PROJECT NUMBER  
 29-4352  
 DRAWING DATE  
 APRIL 2020  
 SHEET NUMBER  
**29 OF 31**

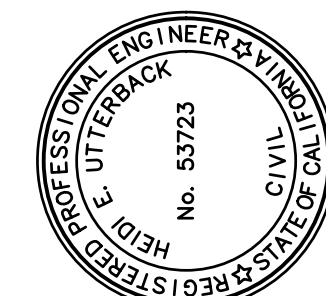
ORIGINAL PLOT DATE:

FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

Xref: CCE-ENGINEERS STAMPS-PLAN.dwg; 294352-drawn\_sp-HPZ.dwg; 294352-drawn\_rr-RAMP-HPZ.dwg  
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CROSS SECTION SCALES  
 HORIZ: 1" = 10'  
 VERT: 1" = 5'



PREPARED UNDER THE DIRECTION OF  
 Heidi E. Utterback 4/23/2020  
 HEIDI E. UTTERBACK, RCE 53723 DATE  
 DESIGNED BY WJK  
 DRAWN BY WJK  
 REVIEWED BY HEU

**Coastland Civil Engineering, Inc.**  
 1400 Neotomas Avenue, Santa Rosa, CA 95405  
 707.571.8005

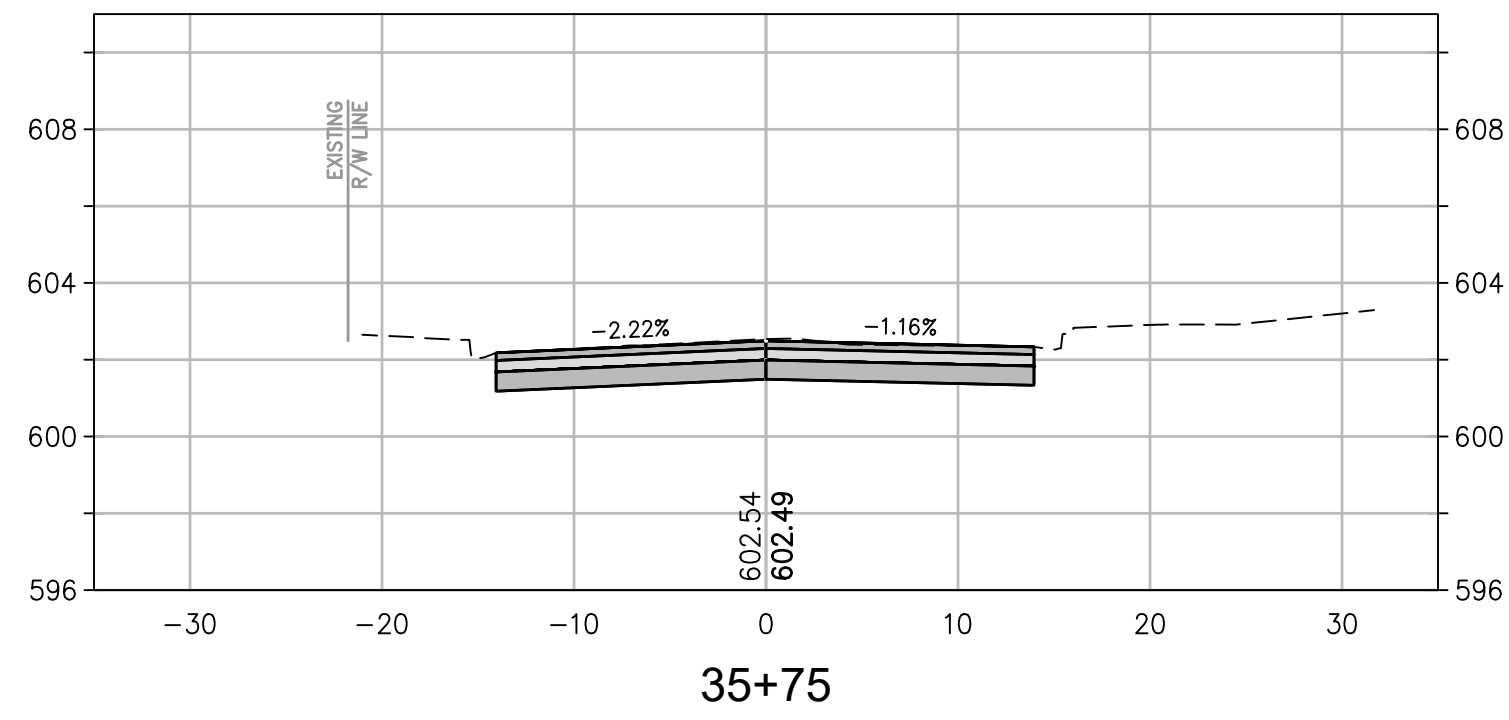
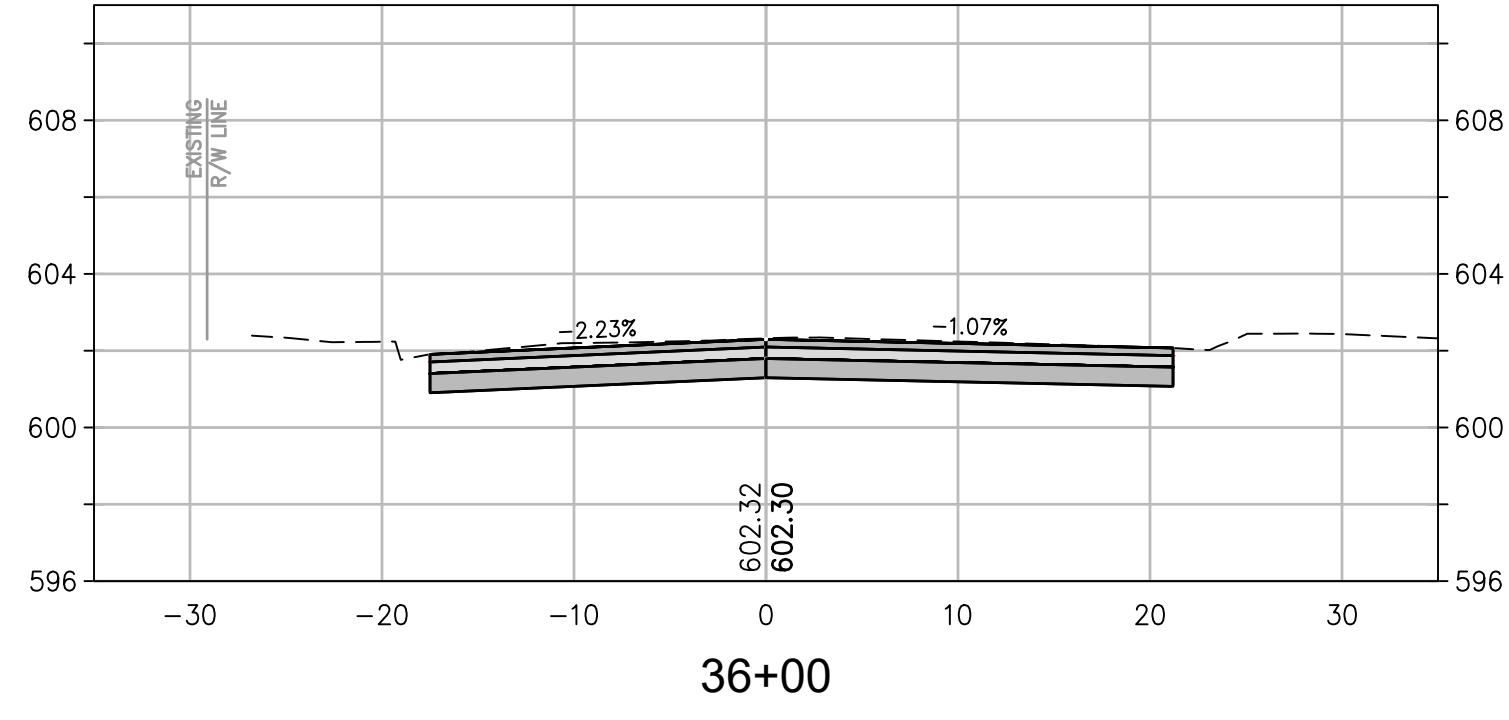
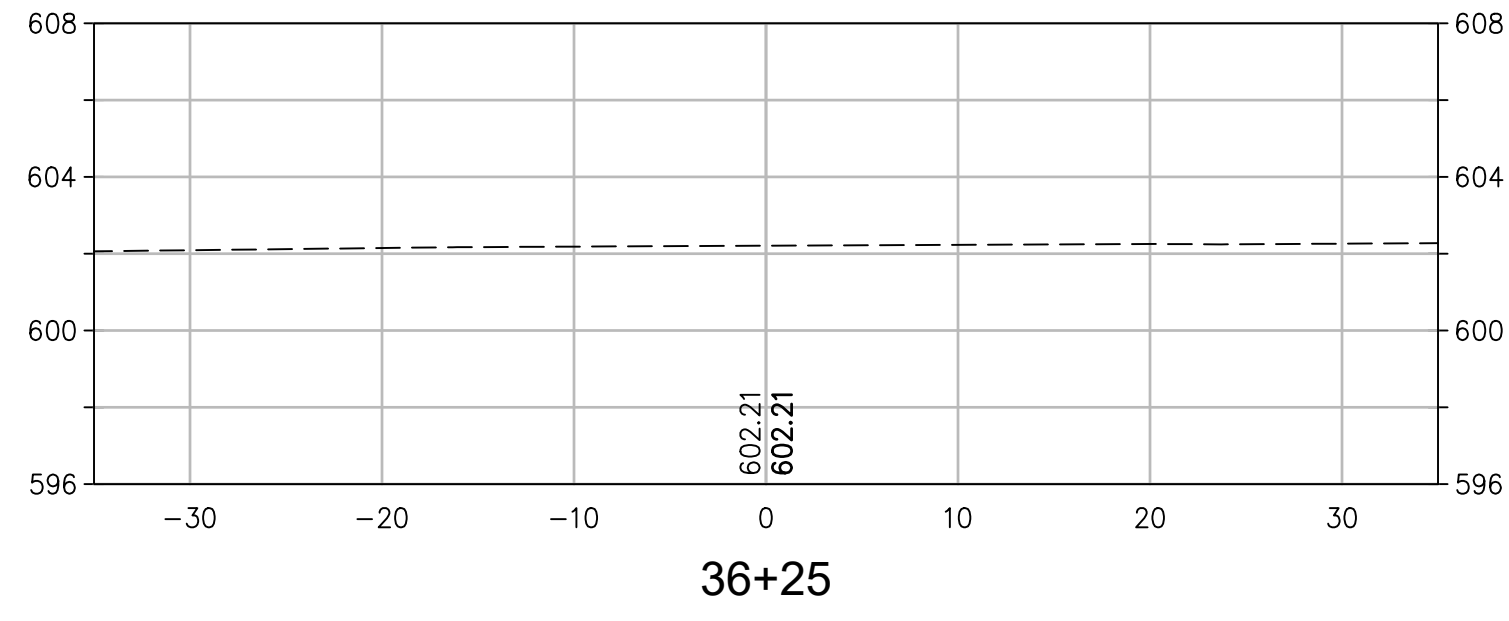
CALIFORNIA  
 CLARA AVENUE RECONSTRUCTION PROJECT  
 SPECIFICATION NO. 20-08  
 CITY OF UKIAH  
**CROSS SECTIONS**  
**STA. 34+40.46 TO STA. 35+50**

PROJECT NUMBER  
 29-4352  
 DRAWING DATE  
 APRIL 2020  
 SHEET NUMBER  
**30 OF 31**

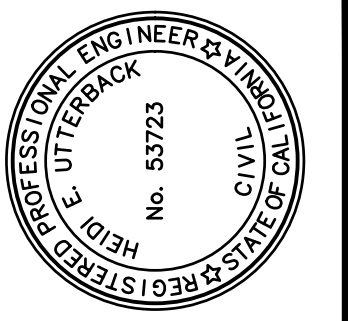
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FOR REDUCED PLANS, THE 0 ORIGINAL SCALE IS IN INCHES

ORIGINAL PLOT DATE:



CROSS SECTION SCALES  
 HORIZ.: 1" = 10'  
 VERT.: 1" = 5'



PREPARED UNDER THE DIRECTION OF  
 Heidi E. Utterback 4/23/2020  
 HEIDI E. UTTERBACK, RCE 53723 DATE  
 DESIGNED BY WJK DRAWN BY WJK REVIEWED BY HEU

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 1400 Neotomas Avenue, Santa Rosa, CA 95405  
 707.571.8005

CITY OF UKIAH CALIFORNIA  
 CLARA AVENUE RECONSTRUCTION PROJECT  
 SPECIFICATION NO. 20-08  
**CROSS SECTIONS**  
**STA. 35+75 TO STA. 36+25**

PROJECT NUMBER 29-4352  
 DRAWING DATE APRIL 2020  
 SHEET NUMBER **31** OF **31**