

**COLUMBIA COUNTY BOARD OF COUNTY COMMISSIONERS**  
**COLUMBIA COUNTY PROJECT NUMBER 2015-02**  
**ENGINEER'S PROJECT NUMBER L140602CCB**  
**SW Herlong St. – Roadway Construction**

**NOTICE TO CONTRACTORS**

Notice is hereby given that sealed bids will be received in the Columbia County Manager's office until **2:00 P.M.** on **March 24th, 2015**, for Columbia County Project No. **2015-02** This office is located on the second floor of the Courthouse Annex at 135 Hernando Avenue, Room 203 Lake City FL 32055.

This project consists of the construction of a new paved two lane roadway along the existing alignment from SW State Road 47 to SW Tustenugee Ave. This project will also consist of constructing side drains and cross drains with end treatments, grassing all disturbed areas and replacement of all signs within project limits.

Scope of work includes clearing and grubbing, grading, stabilizing, limerock base, asphaltic concrete (structural and surface), driveway improvements, culverts, grassing, erosion control, and incidental items.

The Bid Forms and Construction specifications may be obtained from the County's web site at <http://www.columbiacountyfla.com/PurchasingBids.asp>. Deadline for questions regarding specifications and/or bid documents must be received before **11:00 A.M.** on **March 19th, 2015**.

The successful bidder will be required to furnish a 5% bid bond with bid submittal, and if selected, furnish the County Manager with a performance bond, and proof liability insurance prior to commencing work.

The Columbia County Commission reserves the right to reject any or all bids and to add to the contract or delete from the contract to stay within their funding capabilities.

Columbia County Board of County Commissioners

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Rusty DePratter, Chair

**COLUMBIA COUNTY BOARD OF COUNTY COMMISSIONERS**  
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Gentlemen:

The undersigned, as bidder, hereby declares that he has examined the contract documents and informed himself fully in regard to all conditions pertaining to the work to be done; that he has examined the specifications for the work and other contract documents relative thereto; and that he has satisfied himself relative to the work to be performed.

The bidder agrees, if this bid is accepted, to contract with the Columbia County Board of County Commissioners to furnish everything necessary to complete the work covered by this bid and other contract documents for the Columbia County Board of County Commissioners. The Contractor assumes full responsibility for all quantities used in his/her bid. The contractor shall coordinate his construction with all proposed utilities on the site.

<b>HERLONG ROAD</b>					
NFPS Project No.: L140602CCB					
Pay Item No.	Pay Item Description	Quantity	Units	Unit Price	Total Cost
101010000	MOBILIZATION	1	LS		
102010000	MAINTENANCE OF TRAFFIC	1	LS		
104010030	SEDIMENT BARRIER	3660	LF		
110010100	CLEARING & GRUBBING	1	LS		
120010000	REGULAR EXCAVATION	1	LS		
120020200	BORROW EXCAVATION	13,715	CY		
120040000	SUBSOIL EXCAVATION	10,210	CY		
160010000	COMMERCIAL STABILIZING MATERIAL	500	CY		
160040000	STABILIZING (ROADWAY AND SHOULDER)	85,247	SY		
285704000	OPTIONAL BASE, BASE GROUP 04	58,073	SY		
286010000	TURNOUT CONSTRUCTION	2,772	SY		
334010120	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	8,003	TN		
425015210	INLETS, DT BOT, TYPE C, <10'	11	EA		
430173118	PIPE CULVERT ROUND CONCRETE, 18" CD	664	LF		
430173124	PIPE CULVERT ROUND CONCRETE, 24" CD	192	LF		
430174118	PIPE CULVERT ROUND CMP, COATED, 18" SD	1,384	LF		
430982125	MITERED END SECTION, ROUND CONCRETE, 18" CD	13	EA		
430982129	MITERED END SECTION, ROUND CONCRETE, 24" CD	4	EA		
430984125	MITERED END SECTION, ROUND CMP, 18" SD	60	EA		
570010100	PERFORMANCE TURF	1	LS		
570010200	PERFORMANCE TURF, SOD	75,726	SY		
700020011	SINGLE POST SIGN, F&I, LESS THAN 12 SF	47	AS		
706030000	RETRO-REFLECTIVE PAVEMENT MARKERS	1,052	EA		
710000000	PAINTED PAVEMENT MARKINGS	1	LS		
524-1	CONCRETE DITCH PAVEMENT, NON REINFORCED, 4"	200	SY		
<b>TOTAL</b>					

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Pay Item Notes:

- 102010000- Maintenance of Traffic – Includes all elements required for the Traffic Control Plan, construction stakeout, and includes temporary centerline delineation and stop bars placed at all non-working times.
- 104010030- Sediment Barrier – Includes hay bales, staked silt fence, and other items necessary to minimize erosion and prevent sediment from leaving the project limits as directed by the Engineer.
- 110010100- Clearing and Grubbing – Includes removal of all pavement, pipe, vegetation, or any other demolition required for the project.
- 120040000- Subsoil Excavation – Include removal of unsuitable material 24” deep and replace with suitable material compacted in six (6) inch lifts.
- 160010000- Commercial Stabilizing Material – Apply 2” of material as needed to meet the LBR. May be increased, decreased, or omitted.
- 160040000- Stabilizing (Roadway and Shoulder) – Includes mixing, compacting, and meeting LBR requirements.
- 570010100- Performance Turf – Includes all areas disturbed and not sodded.
- 710000000- Painted Pavement Markings – Includes temporary and permanent pavement markings.
- 524 – 1 - Concrete ditch pavement shall be in accordance with FDOT Standard Index 281 (Roadway Side Ditch) Quantity based on 300 LF of Concrete Ditch Pavement, to be placed at Engineer’s direction.

ADDENDA	
NUMBER	DATE SENT

<b>BID TOTAL FOR SW. HERLONG ST          CONSTRUCTION</b>

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**ALL ITEMS MAY BE INCREASED, DECREASED, OR OMITTED AS DIRECTED BY THE ENGINEER.**

**ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO BOTH THE REQUIREMENTS OF THE LATEST FDOT  
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE LATEST FDOT DESIGN  
STANDARDS.**

**ALL INCIDENTAL WORK INCLUDED IN THESE ITEMS  
ALL UNIT PRICE AND TOTAL SPACES MUST BE FILLED IN TO CORRELATE WITH EACH ITEM**

Note: contractors shall be in compliance with chapter 489, Florida statutes, licensure requirements.

Florida construction industries licensing board certification.

\_\_\_\_\_

(name of holder)

\_\_\_\_\_

(certificate no.)

In witness whereof, the bidder has hereunto set his signature and affixed his seal this \_\_\_\_\_ day  
of \_\_\_\_\_, A.D. 20 \_\_\_\_\_

\_\_\_\_\_

(seal)

By: \_\_\_\_\_

Title: \_\_\_\_\_

Type or print name of firm: \_\_\_\_\_

Address: \_\_\_\_\_

Contact person: \_\_\_\_\_

Telephone No.: \_\_\_\_\_

Fax no.: \_\_\_\_\_

**COLUMBIA COUNTY BOARD OF COUNTY COMMISSIONERS  
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**General Requirements**

**I. General.**

This project consists of the construction of a new paved two lane roadway along the existing alignment from SW State Road 47 to SW Tustenugee Ave. This project will also consist of constructing side drains and cross drains with end treatments, grassing all disturbed areas and replacement of all signs within project limits.

**II. Contract Time**

The contract time shall be 180 days from the date of contract execution. The contractor will be required to return executed contract to Ray Hill, Columbia County purchasing director and Chad Williams, Columbia County Engineer, within 14 days of Board approval. Time can be extended by mutual agreement of both parties. Liquidated damages shall be \$300.00 per day. No work is allowed on Saturdays, Sundays, and/or County designated holidays.

Underground utility lines will require adjustment. Contractor will coordinate with utility company. Once clearing and grubbing is complete, contractor may experience a delay up to 2 weeks for utility relocates.

Contractor shall provide a construction schedule with the bid package detailing time frames/lines showing how the project will be constructed. The schedule will be taken into consideration in the bid review process and bids submitted without the schedule could be reason for a bid to not receive full consideration.

**III. Construction and Materials**

All construction methods and materials shall conform to the requirements of the latest edition of the Florida Department of Transportation Design Standards and Florida Department of Transportation Standard Specifications for Road and Bridge Construction.

**IV. Maintenance of Traffic**

Contractor shall provide Maintenance of Traffic and it shall conform to the requirements of the latest edition of the Florida Department of Transportation Design Standards.

Flagging will be required and only one traffic lane may be closed between the hours of 8:30 A.M. to 4:30 P.M. only.

All construction signage shall be provided by the contractor.

**V. Compensation**

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Payment shall be made on a monthly basis on work completed with 10% retainage.

**Purchasing Department – General Instructions to Bidders**

These instructions will bind bidders and conditions herein set forth, except as specifically qualified in special bid and contract terms issued with any individual bid.

1. The following criteria are used in determining low responsible bidder:
  - A. The ability, capacity and skill of bidder to perform required service.
  - B. Whether the bidder can perform service promptly or within specified time.
  - C. The character, integrity, reputation, judgment, experience and efficiency of bidder.
  - D. The performance of previous contracts with Columbia County.
  - E. The suitability of equipment or material or county use.
  - F. The ability of bidder to provide future maintenance
2. Payment Terms are net (30) unless otherwise specified. Favorable terms, discounts, may be offered and will be considered in determining low bids if they are deemed by Purchasing Department to be advantageous to the County.
3. All bids should be tabulated, totaled and checked for accuracy. All blanks on Bid Proposal sheet shall be filled in and unit price will prevail in case of errors.
4. All requested information shall be included in the envelope. All desired information must be included for your bid to receive full consideration.
5. If anything on the bid request is not clear, you should contact the Purchasing Director immediately.
6. A bidders list is available at the Purchasing Office.
7. Quote all prices F.O.B. our warehouse or as specified in bid documents.
8. Each proposal shall be clearly marked on the outside of the envelope including Fed Ex, UPS or other delivery service envelopes, as a sealed bid. The name of the item being bid shall be shown on the outside in full.
9. No responsibility shall attach to any County representative or employee for the premature opening of bids not properly addressed or identified.
10. If only one (1) bid is received, the bid may be rejected and re-advertised or excepted if determined to be in the counties best interest.
11. Bids received late will not be accepted, and the County will not be responsible for

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late mail delivery.

12. Telephone and facsimile bids will not be acceptable in formal bid openings (sealed bids). Should a bid be misplaced by the County and found later, it will be considered. Any bidder may request and shall receive a receipt showing the day and time any bid is delivered to the appropriate office of the County from the personnel thereof.
13. Bids requiring bid bonds will not be accepted if bond is not enclosed. Cash or certified check will be accepted in lieu of bond except on construction projects where cost exceeds \$40,000.
14. All bidders must be recognized dealers in the materials or equipment specified and is qualified to advise in their application or use. A bidder at any time requested must satisfy the Purchasing Office and the County Manager that he has the requisite organization, capital, plant, stock ability and experience to satisfactorily execute the contract in accordance with the provisions of the contract in which he is interested.
15. Any alterations, erasures, additions, or admissions of required information or any changes to specifications or bidding schedule are done at the risk of the bidder. Any bid will be rejected that has a substantial variation, that is; a variation that affects price, quantity, and quality or delivery date (when delivery is required by a specific time).
16. When requested, samples will be furnished to the County free of expense, properly marked for identification and accompanied by a list where there is more than one (1) sample. The County reserves the right to mutilate or destroy any sample submitted whenever it may be to the best interest of the County to do so for the purpose of testing.
17. The County will reject any material, supplies or equipment that did not meet the specifications, even though the bidder lists the trade names or names of such material on the bid or price quotation form.
18. The unauthorized use of patented articles is done entirely at the risk of the successful bidder.
19. The ESTIMATED QUANTITY given in the specifications or advertisements is for the purpose of bidding only. The County may purchase more or less than the estimated quantity and the vendor must not assume that such estimated quantity is part of the contract.
20. Only the latest model equipment as evidenced by the manufacture's current published literature will be considered. Obsolete models of equipment not in production will not be acceptable. The equipment shall be composed of new parts and materials. Any unit containing used parts or having seen any service other than the necessary tests will be rejected. In addition to the equipment specifically called for in the specification, all

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equipment catalogued by the manufacturer as standard or required by the State of Florida shall be furnished with the equipment. Where required by the State of Florida Motor Vehicle Code, vehicles shall be inspected and bear the latest inspection sticker of the Florida Department of Revenue.

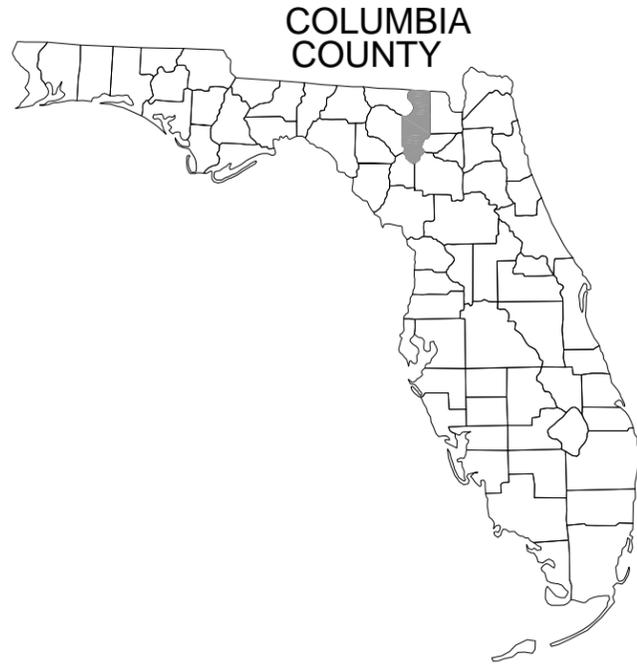
21. Prospective bidders are required to examine the location of the proposed work or delivery and determine, in their own way, the difficulties, which are likely to be encountered in the prosecution of the same.
22. All materials, equipment and supplies shall be subject to rigid inspection, under the immediate supervision of the Purchasing Department, its designee and /or the department to which they are delivered. If defective material, equipment, or supplies are discovered, the contractor, upon being instructed by the Purchasing Department or designee, shall remove, or make good such material, equipment, or supplies without extra compensation. It is expressly understood and agreed that the inspection of materials by the County will in no way lessen the responsibility of the Contractor release him from his obligation to perform and deliver to the County Sound and satisfactory materials, equipment, or supplies. The Contractor agrees to pay the costs of all tests upon defective material, equipment, or supplies or allow the costs to be deducted from any monies due him from the County.
23. Unless otherwise specified by the Purchasing Department all materials, supplies, or equipment quoted herein must be delivered within thirty (30) days from the day of notification or exceptions noted on bid sheets.
24. A contract will not be awarded to any corporation, firm, or individual who is, from any cause, in arrears to the County or who has failed in former contracts with the County to perform work satisfactorily, either to the character of the work, the fulfillment or guarantee, or the time consumed in completing the work.
25. Reasonable grounds for supposing that any bidder is interested in more than one proposal for the same item will be considered sufficient cause for rejection of all proposals in which he is interested.
26. Submitting a proposal when the bidder intends to sublet the contract may be a cause for rejection of bids or cancellation of the contract by the County Manager.
27. Unless otherwise specified the County reserves the right to award each items separately or on a lump sum basis whichever is in the best interest of the County.
28. The County reserves the right to reject any and/or all quotations, to waive any minor discrepancies in the bids for all bidders equally, quotations, or specifications, when deemed to be in the best interest of the County and also to purchase any part, all or none of the materials, supplies, or equipment specified.

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29. Failure of the bidder to sign the bid or have the signature of an authorized representative or agent on the bid proposal in the space provided will be cause for rejection of the bid. Signature must be written in ink. Typewritten or printed signatures will not be acceptable.
30. Any bidder may withdraw his bid at any time before the time set for the opening of the bids. No bid may be withdrawn in the thirty- (30) day period after bids are opened.
31. It is mutually understood and agreed that if at any time the Purchasing Department or designee shall be of the opinion that the contract or any part thereof is unnecessarily delayed or that the rate of progress or delivery is unsatisfactory, or that the contractor is willfully violating any of the conditions or covenants of the agreement, or executing the same in bad faith, the Purchasing Department or his designee shall have the power to notify the aforesaid contractor of the nature of the complaint. Notification shall constitute delivery of notice, or letter to address given in the proposal. If after three (3) working days of notification the conditions are not corrected to the satisfaction of the Purchasing Director, he shall thereupon have the power to take whatever action he may deem necessary to complete the work or delivery herein described, or any part thereof, and the expense thereof, so charged, shall be deducted from any paid by the County out of such monies as may become due to the said contractor, under and by virtue of this agreement. In case such expense shall exceed the last said sum, then and in that event, the bondsman or the contractor, his executors, administrators, successors, or assigns, shall pay the amounts of such excess to the County on notice made by the Purchasing Department or his designee of the excess due.
32. If the bidder proposes to furnish any item of foreign make or product, he shall write "foreign" together with the name of the originating country opposite such item on a proposal.
33. Any complaint from bidders relative to the invitation to bid or attached specifications shall be made prior to the time of opening bids; otherwise, the bidder waives any such complaint.
34. Contracts may be cancelled by the County with or without cause on thirty- (30) days advance written notice.
35. All contractors submitting bids for road projects in excess of \$150,000 must be pre-qualified with the Florida Department of Transportation and shall provide proof of such qualification upon request.

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36. Any bidder affected adversely by an intended decision with respect to the award of any bid, shall file with the Purchasing Department for Columbia County, a written notice of intent to file a protest not later than seventy-two (72) hours (excluding Saturdays, Sundays and legal holidays), after the posting of the bid tabulation. Protest procedures may be obtained in the Purchasing Department.
37. A person or affiliate who has been placed on the convicted vendor's list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to Columbia County, may not submit a bid on a contract with Columbia County for the construction or repair of a public building or public work, may not submit bids on leases of real property to Columbia County, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with Columbia County, and may not transact business with Columbia County for a period of 36 months from the date of being placed on the convicted vendor list.
38. Vendor/Contractor shall utilize the U.S. Department of Homeland Security's E-Verify system, in accordance with the terms governing use of the system, to confirm the employment eligibility of;
  - A. all persons employed by the Vendor/Contractor during the term of the Contract to perform employment duties within Florida; and
  - B. all persons, including subcontractors, assigned by the Vendor/Contractor to perform work is pursuant to the contract with the County.
39. Contractor shall register online at <http://www.columbiacountyfla.com/PurchasingBids.asp> for this specific project. All addendums are delivered via email through this website, and it is the contractor's responsibility to ensure all addendums are used in the bid submittal.
40. Any existing materials demolished within county right of way may be retained by Columbia County.



# SW HERLONG STREET COLUMBIA COUNTY, FLORIDA SIGNING AND PAVEMENT MARKING PLANS

## SHEET INDEX

COVER SHEET	1
GENERAL NOTES	2
SIGNING AND MARKING	3 - 18

### **GOVERNING STANDARDS AND SPECIFICATIONS:**

Florida Department of Transportation, 2015 Design Standards and revised Index Drawings as appended herein, and 2015 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents

For Design Standards click on the "Design Standards" link at the following web site:  
[www.dot.state.fl.us/rddesign/](http://www.dot.state.fl.us/rddesign/)

For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site:  
[www.dot.state.fl.us/sprcifications\\_office/](http://www.dot.state.fl.us/sprcifications_office/)



North Florida Professional Services, Inc.  
P.O. BOX 3823  
Lake City, FL 32025  
Ph. 386-752-4675  
Fax. 386-752-4674  
Tallahassee, FL 32318  
Ph. 877-335-1525  
Eng. Lic. 29011

# COVER SHEET

REVISIONS:

DESIGNED BY:	GB
DRAFTED BY:	RD
CHECKED BY:	GB
SIGNATURE & SEAL	

JOB NUMBER: L140602CCB  
DATE: 11/08  
SHEET NO. 1

### SIGNING AND PAVEMENT MARKING NOTES

1. ALIGNMENT OF PROPOSED PAVEMENT MARKINGS SHALL MATCH EXISTING PAVEMENT MARKINGS AT PAVEMENT MARKING LIMITS OF CONSTRUCTION.
2. ALL DIRECTIONAL ARROWS AND LETTERS FOR PAVEMENT MESSAGES SHALL BE PLACED AS ONE SEGMENT.
3. ALL EXISTING SIGNS SHALL BE REMOVED UNLESS NOTED OTHERWISE IN THE PLANS.

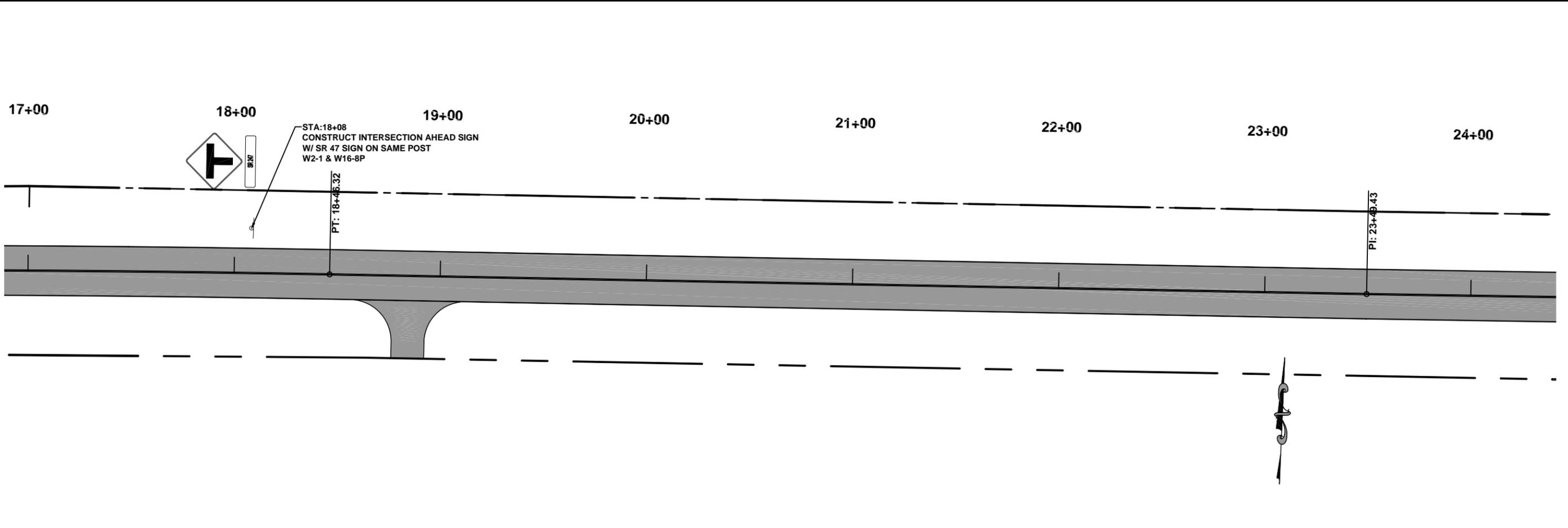
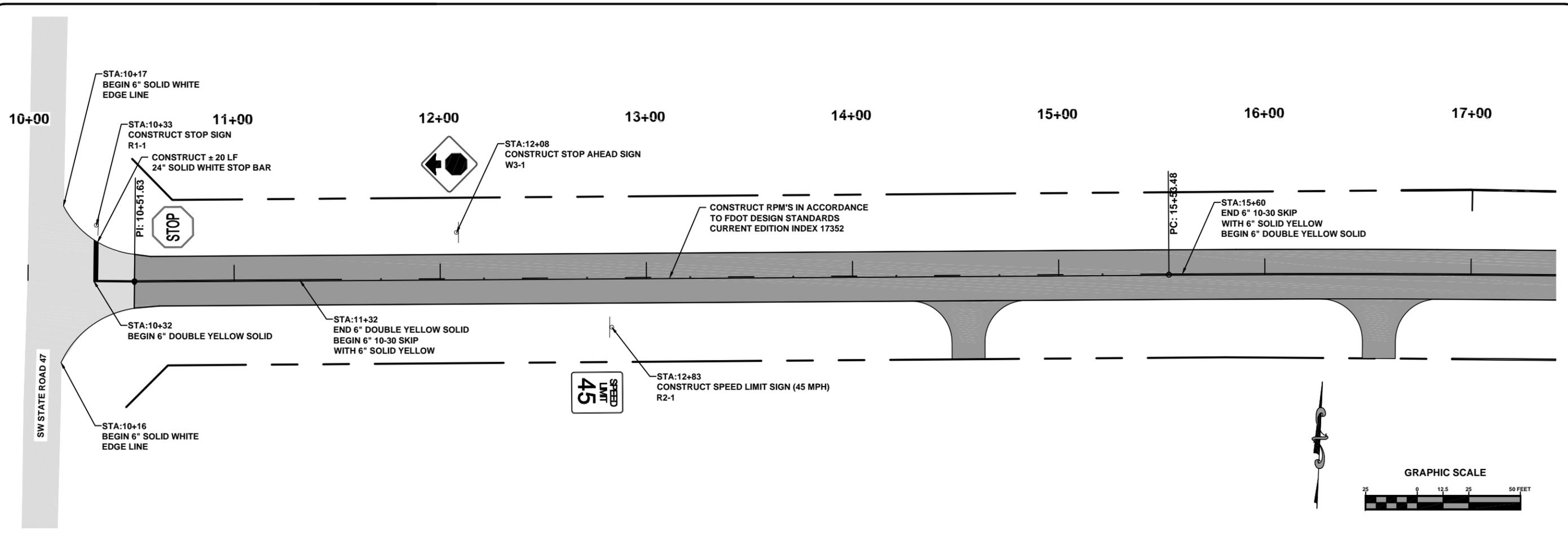
JOB NUMBER: L140602CCB	DESIGNED BY: GB	DRAFTED BY: RD	CHECKED BY: GB
DATE: 11/08			
SHEET NO. 2			
SIGNATURE & SEAL			

REVISIONS:

**GENERAL NOTES**  
SW HERLONG STREET  
COLUMBIA COUNTY, FLORIDA



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**SIGNING AND MARKING**  
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 COLUMBIA COUNTY, FLORIDA

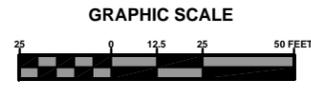
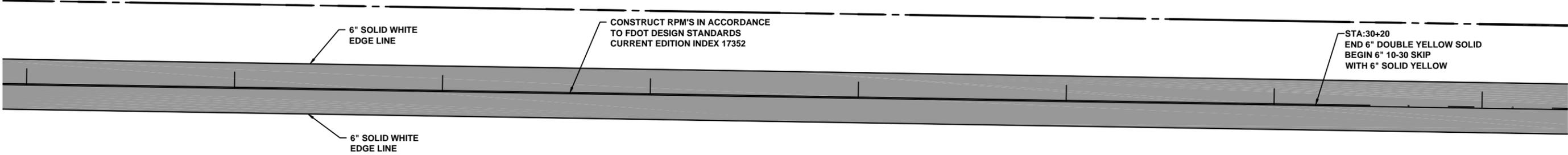
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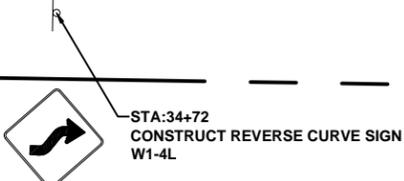
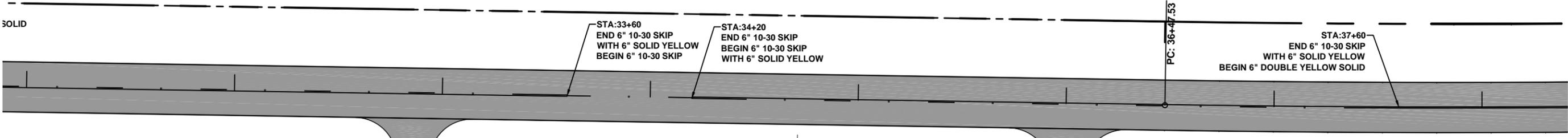
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 SHEET NO. 3

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 Date Created: February 18, 2015  
 Date Last Saved: February 18, 2015  
 Date Plotted: February 18, 2015

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31+00                      32+00                      33+00                      34+00                      35+00                      36+00                      37+00                      38+00



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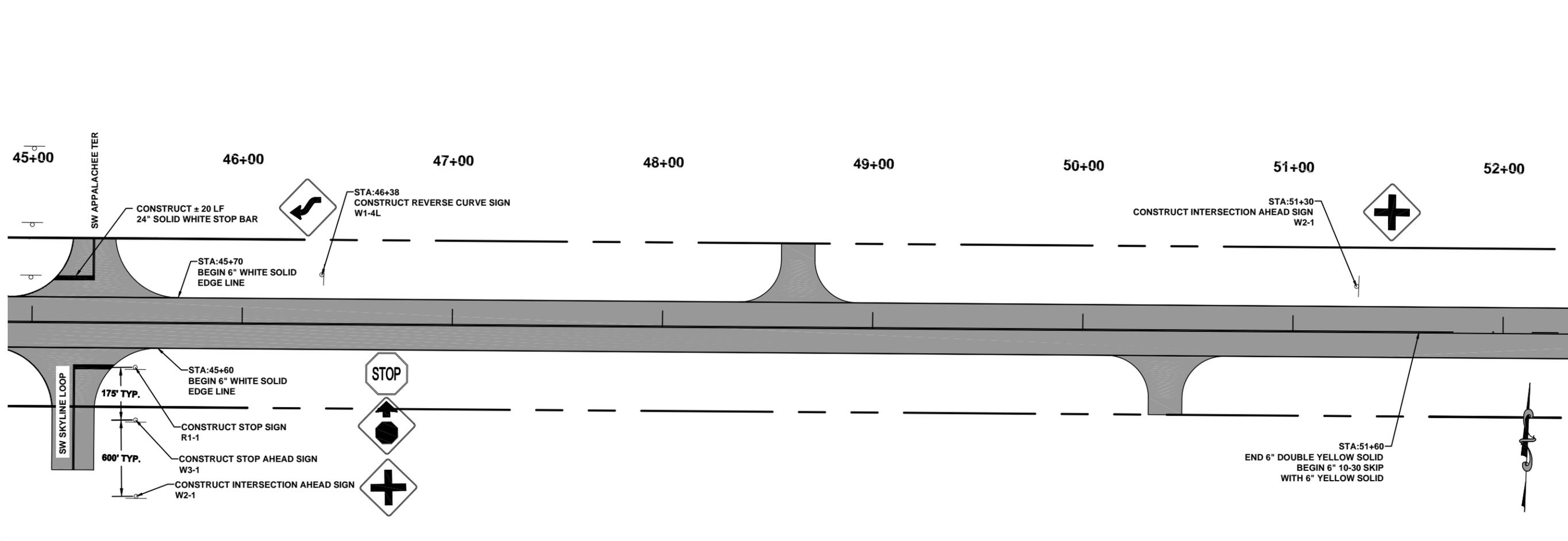
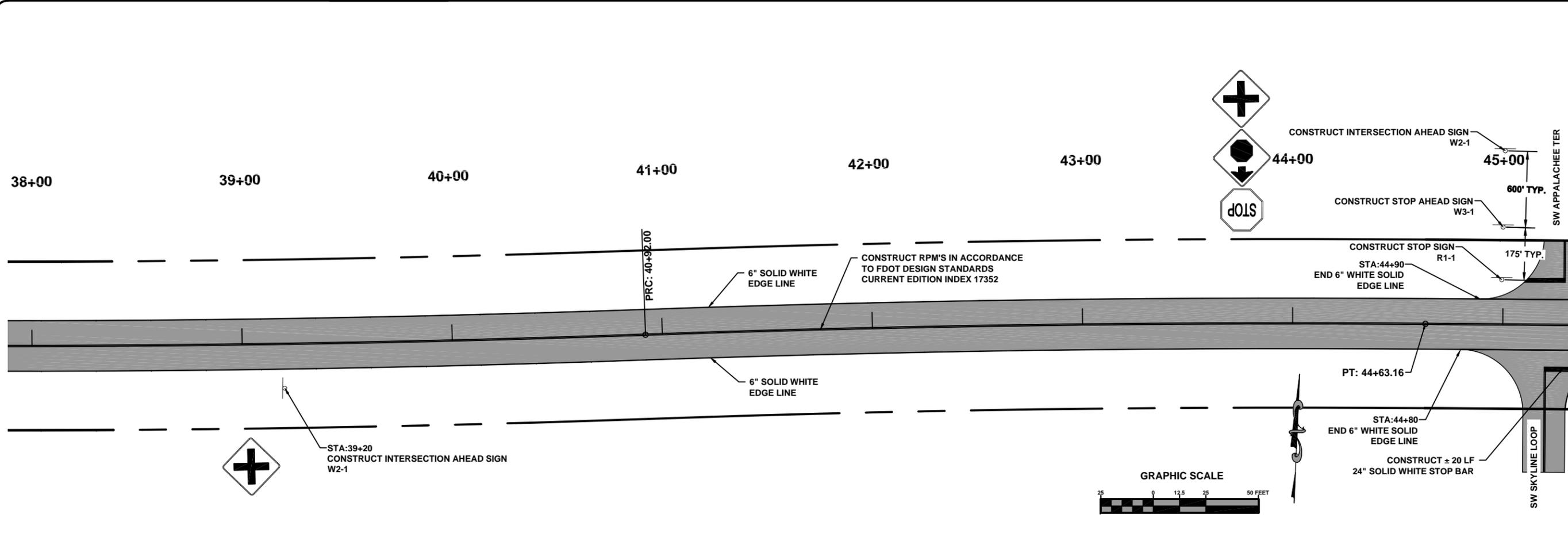


**SIGNING AND MARKING**  
 SW HERLONG STREET  
 COLUMBIA COUNTY, FLORIDA

REVISIONS:

DESIGNED BY:	GB
DRAFTED BY:	RD
CHECKED BY:	GB
SIGNATURE & SEAL	

DATE: 11/24/08  
 SHEET NO. 4



North Florida Professional Services, Inc.  
 P.O. BOX 3823  
 Tallahassee, FL 32318  
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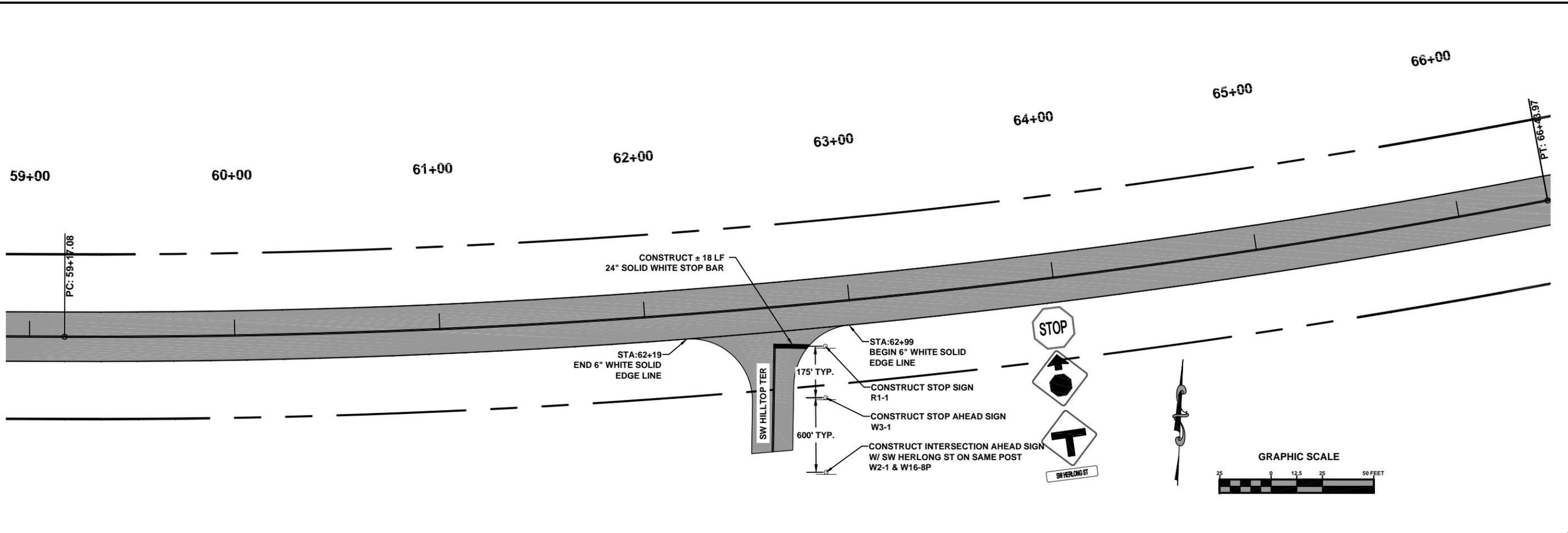
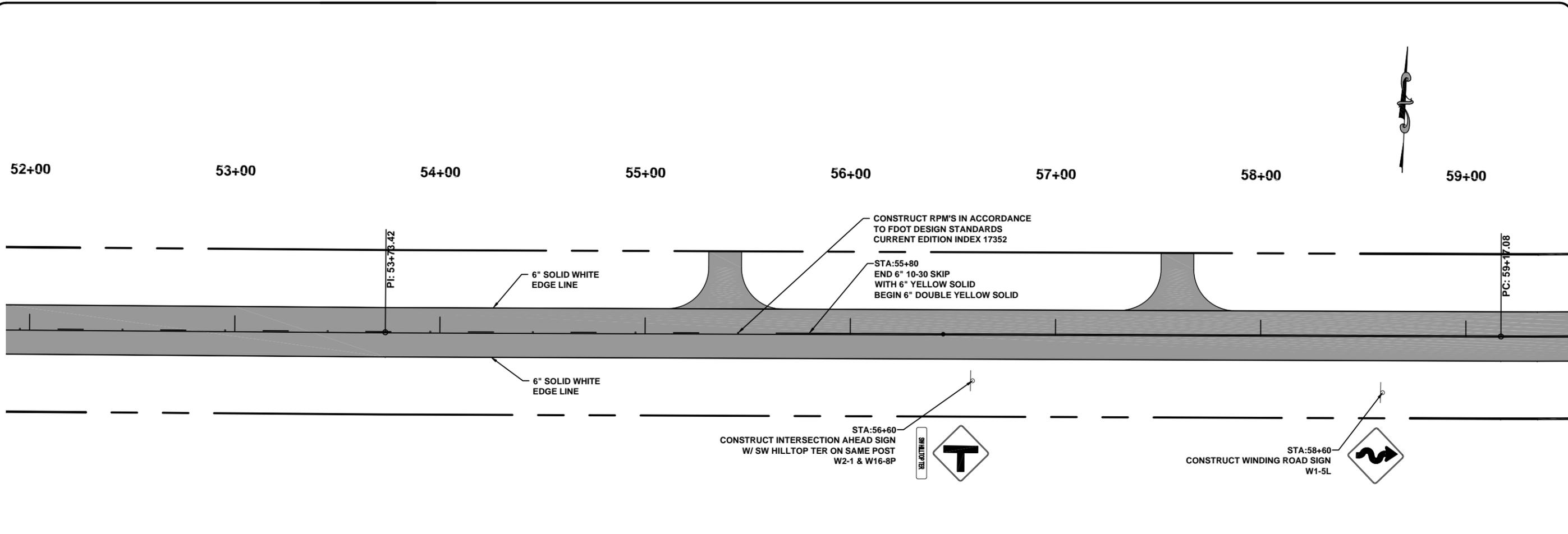


**SIGNING AND MARKING**  
 SW HERLONG STREET  
 COLUMBIA COUNTY, FLORIDA

REVISIONS:

DESIGNED BY:	GB
DRAFTED BY:	RD
CHECKED BY:	GB
SIGNATURE & SEAL	
DATE:	11/24/08
SHEET NO.:	5

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Date Created: February 18, 2015  
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Date Plotted: February 18, 2015



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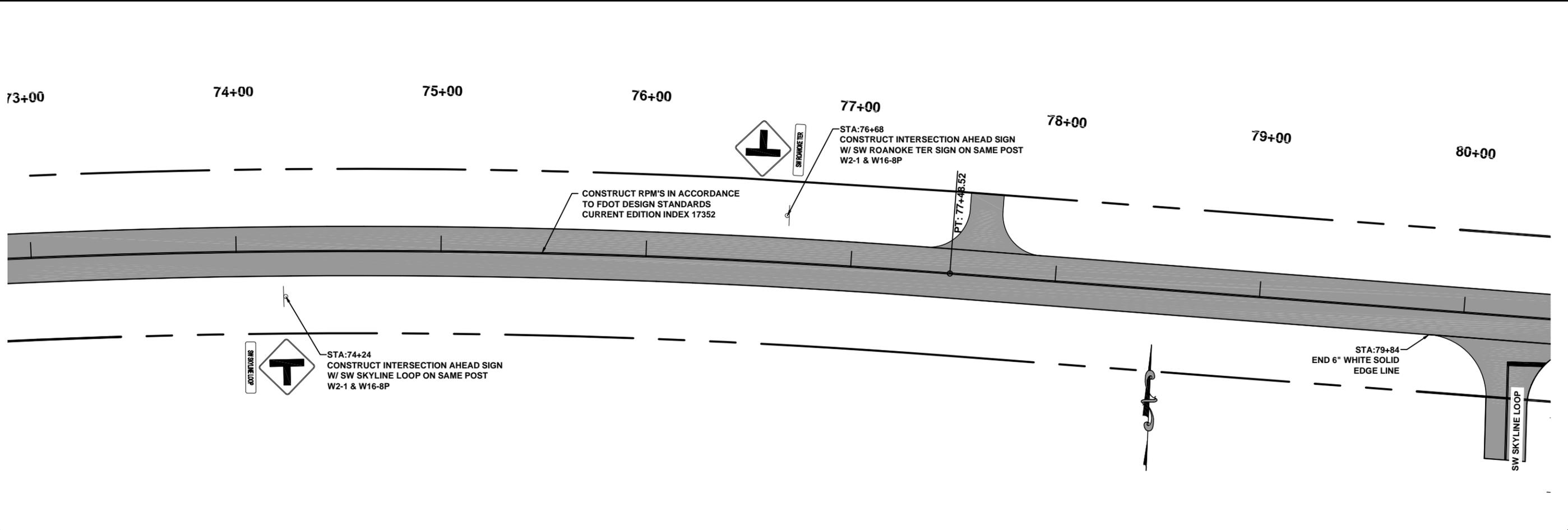
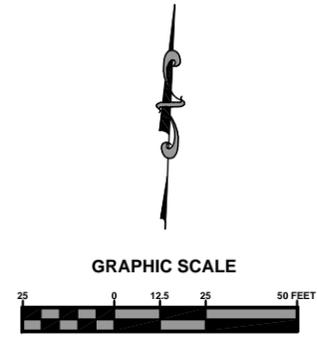
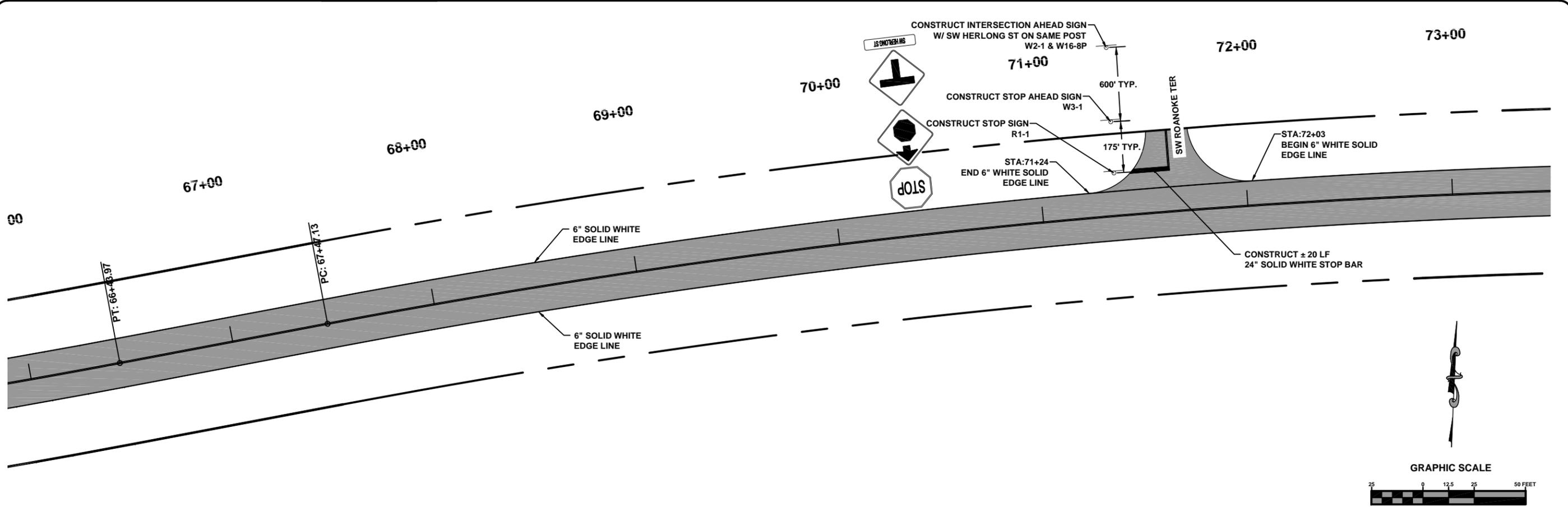
### SIGNING AND MARKING

SW HERLONG STREET  
COLUMBIA COUNTY, FLORIDA

REVISIONS:

NO.	DATE	BY	DESCRIPTION
1		GB	DESIGNED BY
2		RD	DRAFTED BY
3		GB	CHECKED BY
SIGNATURE & SEAL			

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SHEET NO. 6



North Florida Professional Services, Inc.  
 P.O. BOX 3823  
 Tallahassee, FL 32318  
 Lake City, FL 32025  
 Ph. 877-335-1525  
 Ph. 386-752-4675  
 Fax. 386-752-4674  
 Eng. Lic. 29011



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 COLUMBIA COUNTY, FLORIDA

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80+00

81+00

82+00

83+00

84+00

85+00

86+00

87+00

CONSTRUCT ± 20 LF  
24" SOLID WHITE STOP BAR

PC: 81+62.85

CONSTRUCT RPM'S IN ACCORDANCE  
TO FDOT DESIGN STANDARDS  
CURRENT EDITION INDEX 17352

STA: 80+64  
BEGIN 6" WHITE SOLID  
EDGE LINE

CONSTRUCT STOP SIGN  
R1-1

CONSTRUCT STOP AHEAD SIGN  
W3-1

CONSTRUCT INTERSECTION AHEAD SIGN  
W/ SW HERLONG ST ON SAME POST  
W2-1 & W16-8P



SW SKYLINE LOOP

175' TYP.

600' TYP.

GRAPHIC SCALE



87+00

88+00

89+00

90+00

91+00

92+00

93+00

94+00

PT: 89+12.85

PC: 89+50.04

6" SOLID WHITE  
EDGE LINE

6" SOLID WHITE  
EDGE LINE

PT: 93+50.04

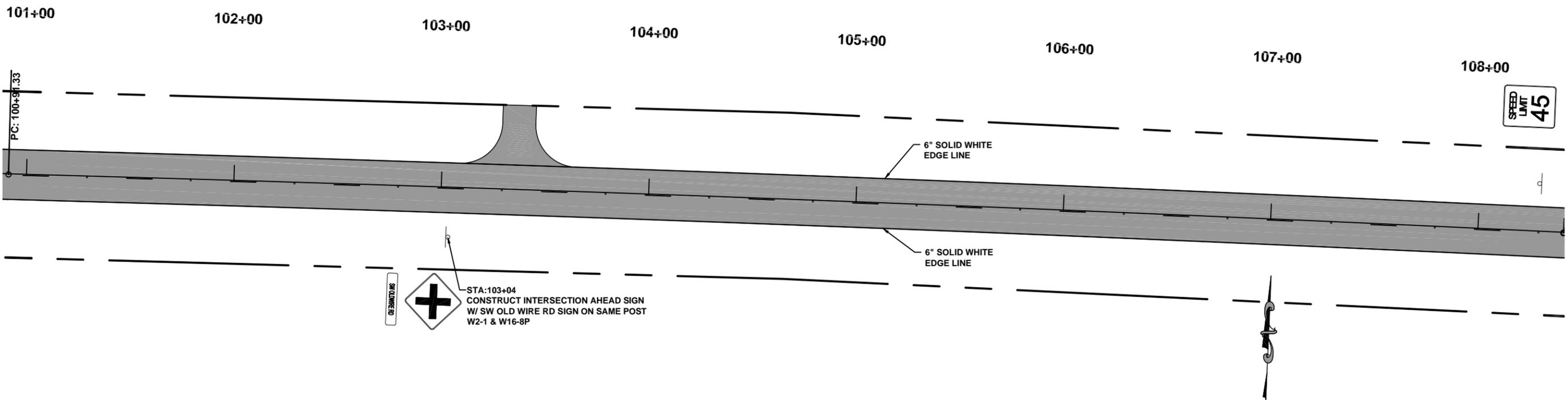
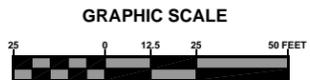
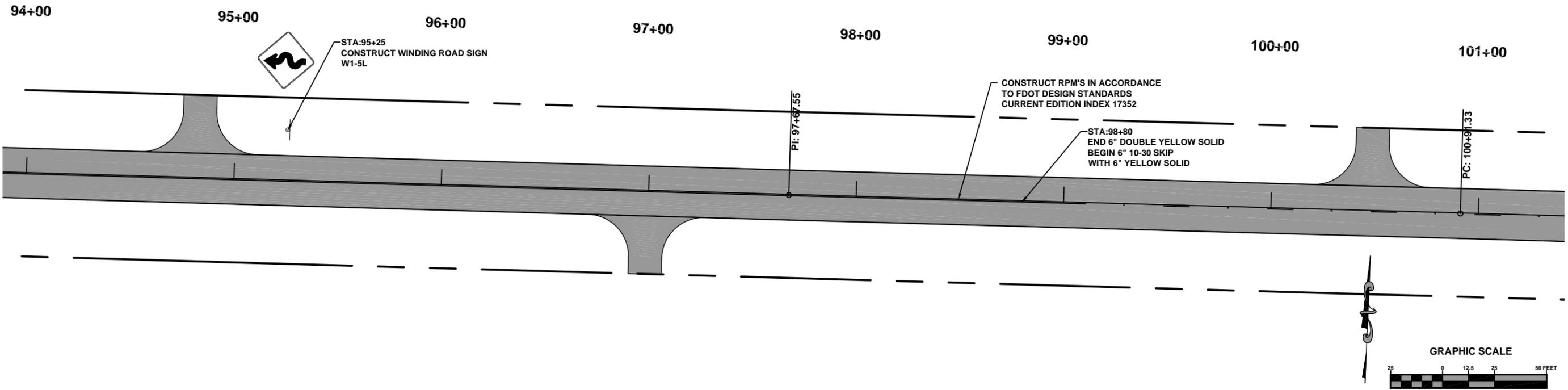
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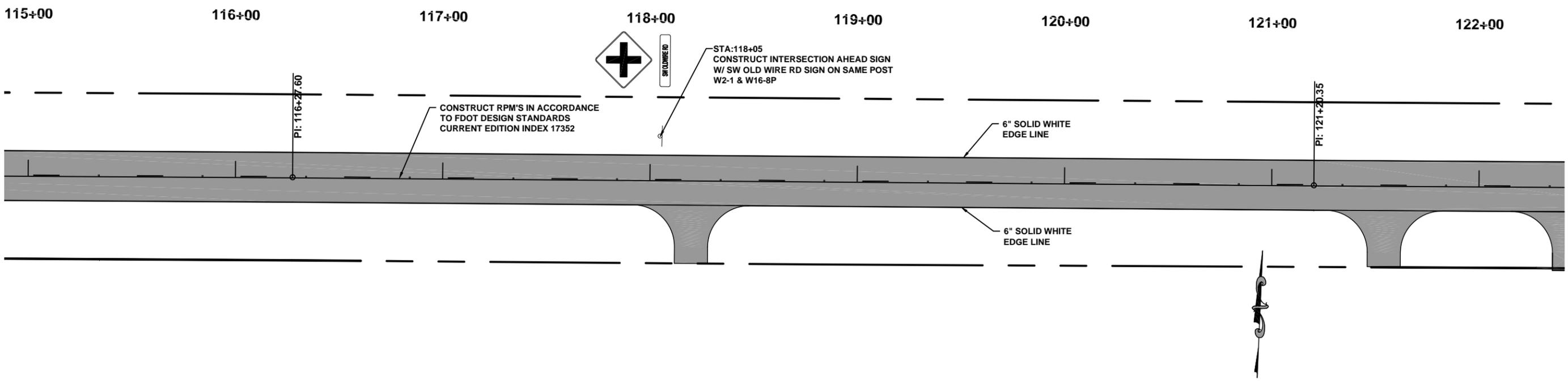
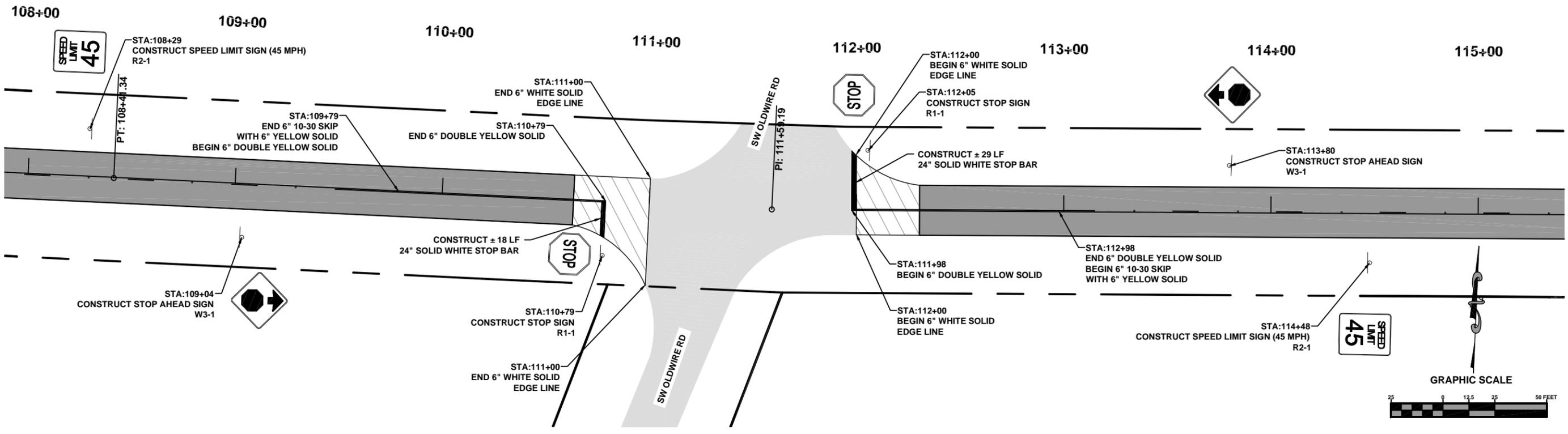


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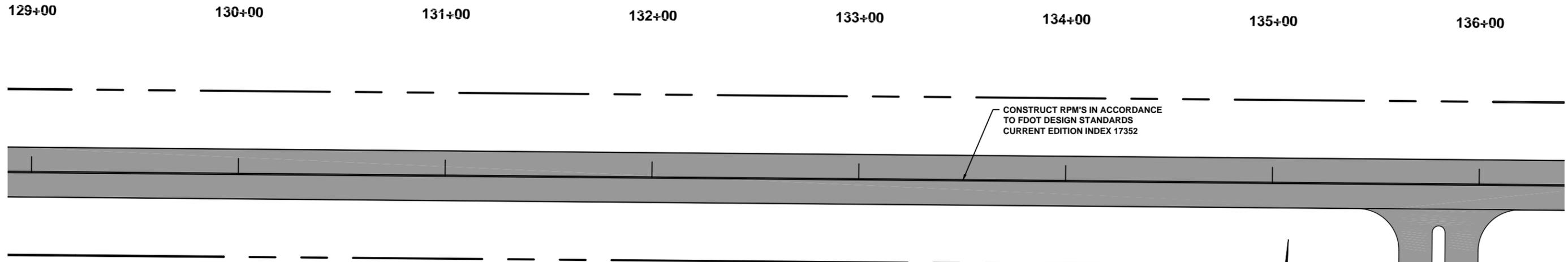
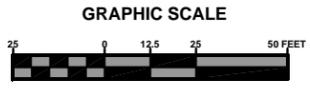
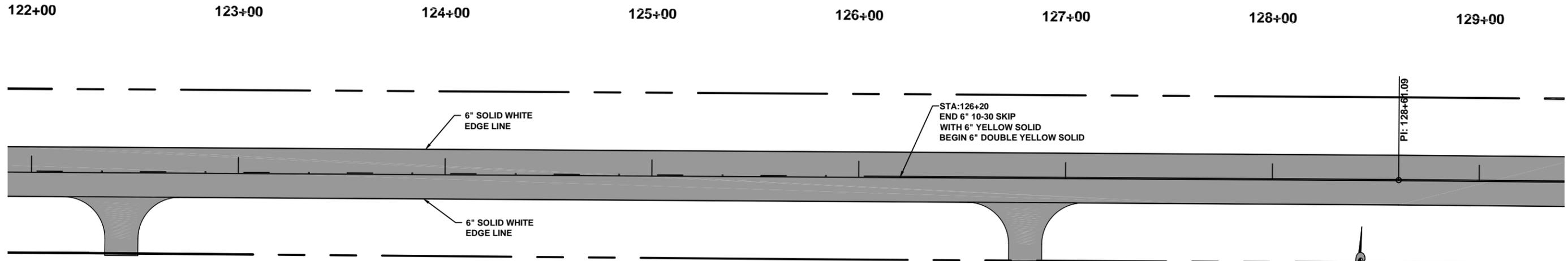


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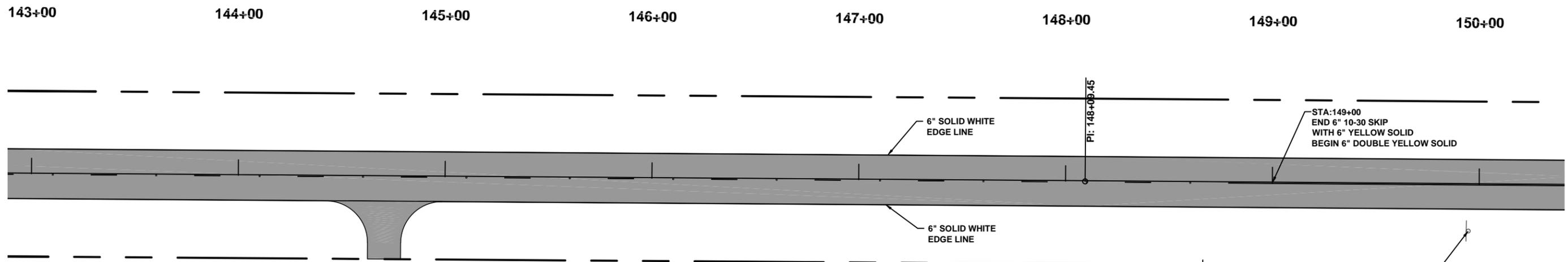
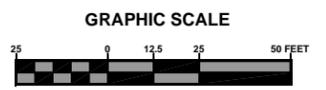
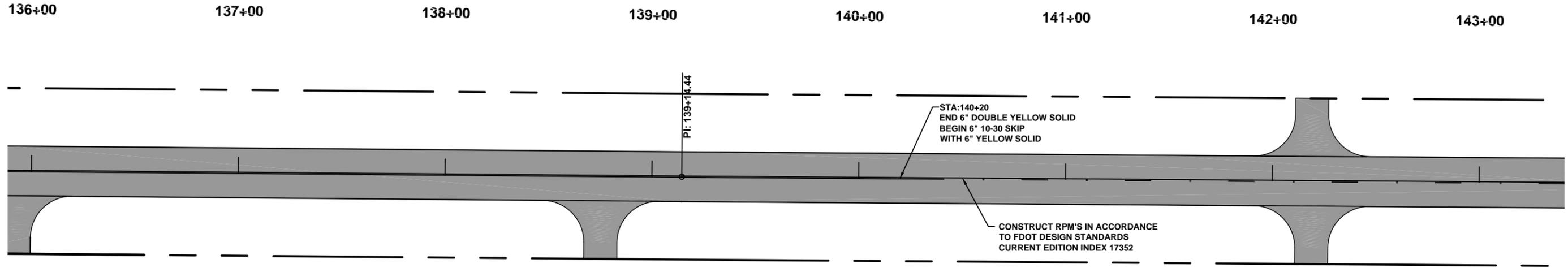
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 Date Created: February 18, 2015  
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STA:149+95  
 CONSTRUCT INTERSECTION AHEAD SIGN  
 W/ SW CHOCTAW AVE ON SAME POST  
 W2-1 & W16-8P



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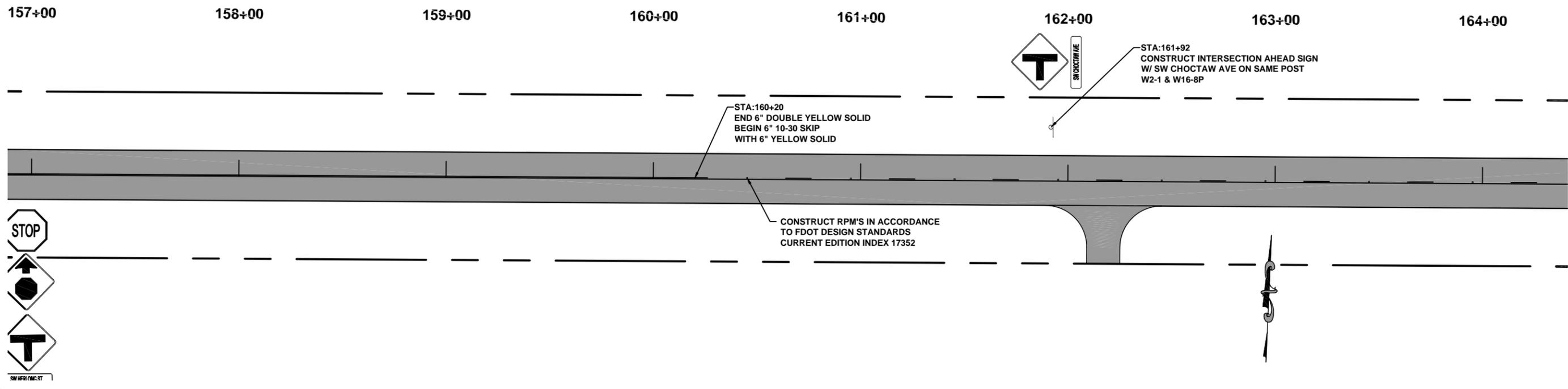
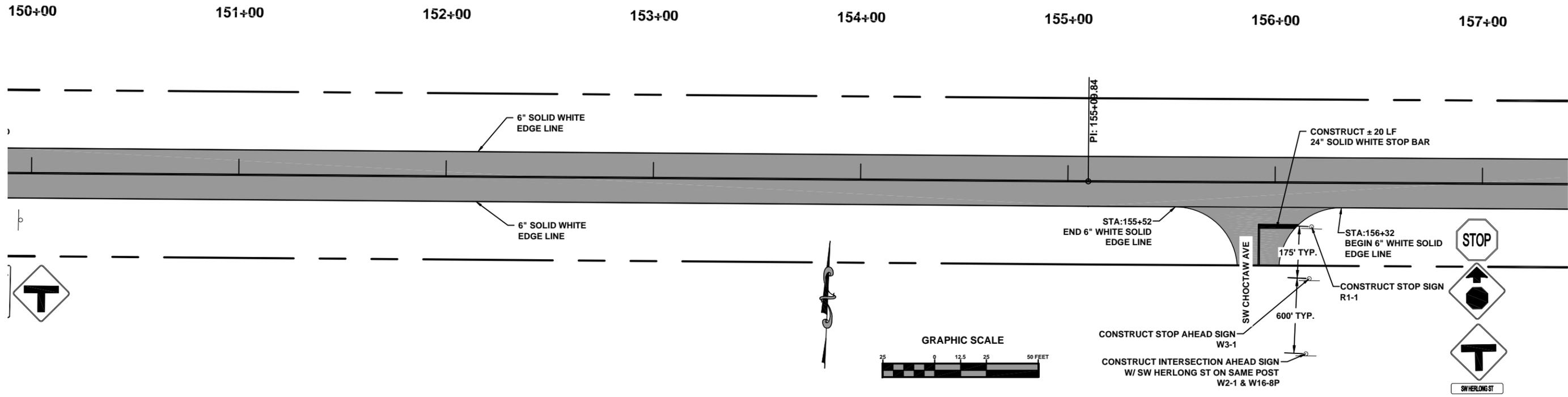


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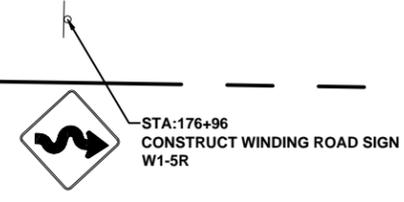
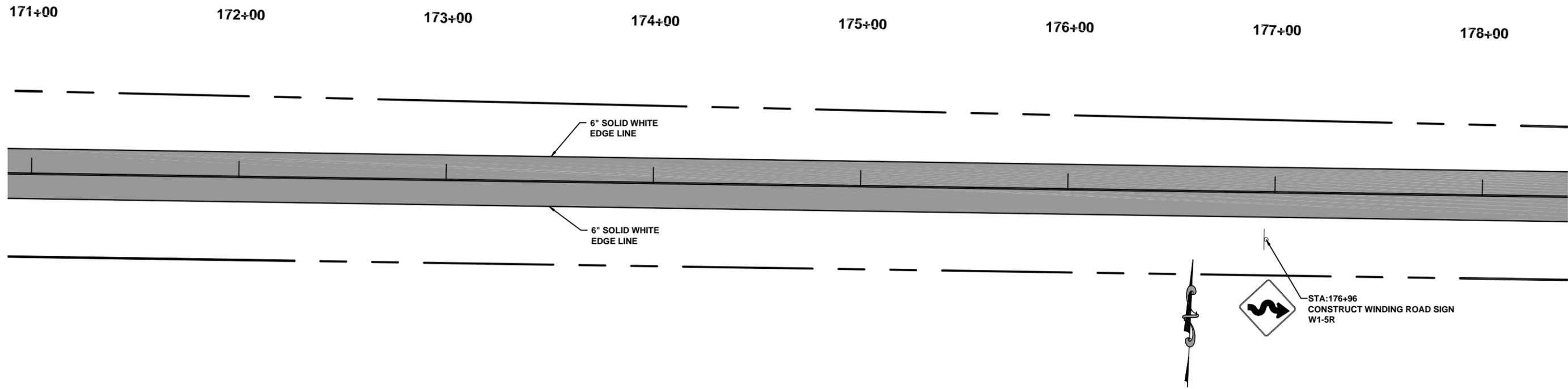
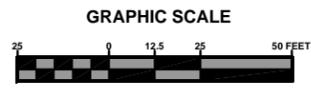
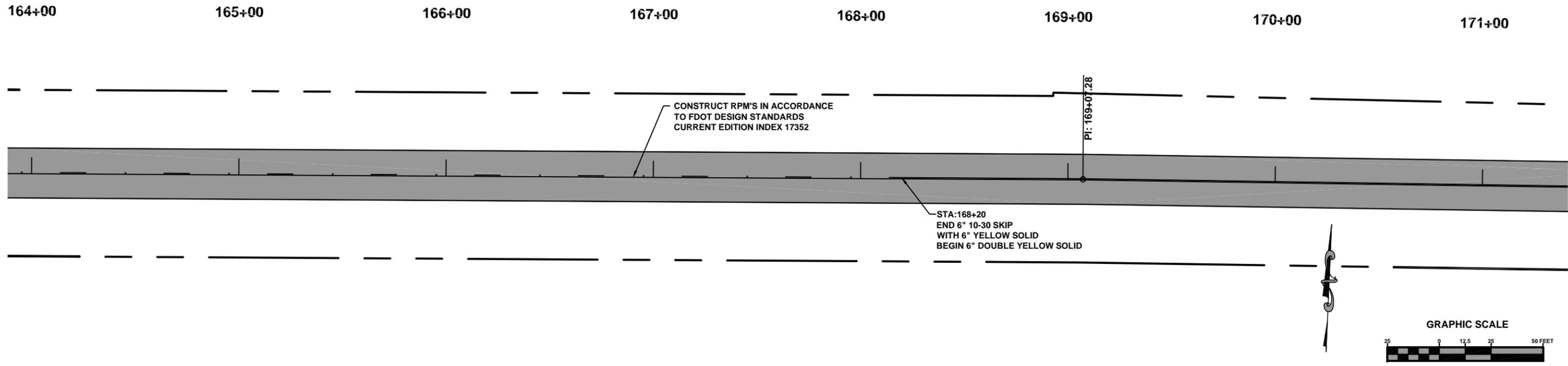


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 COLUMBIA COUNTY, FLORIDA

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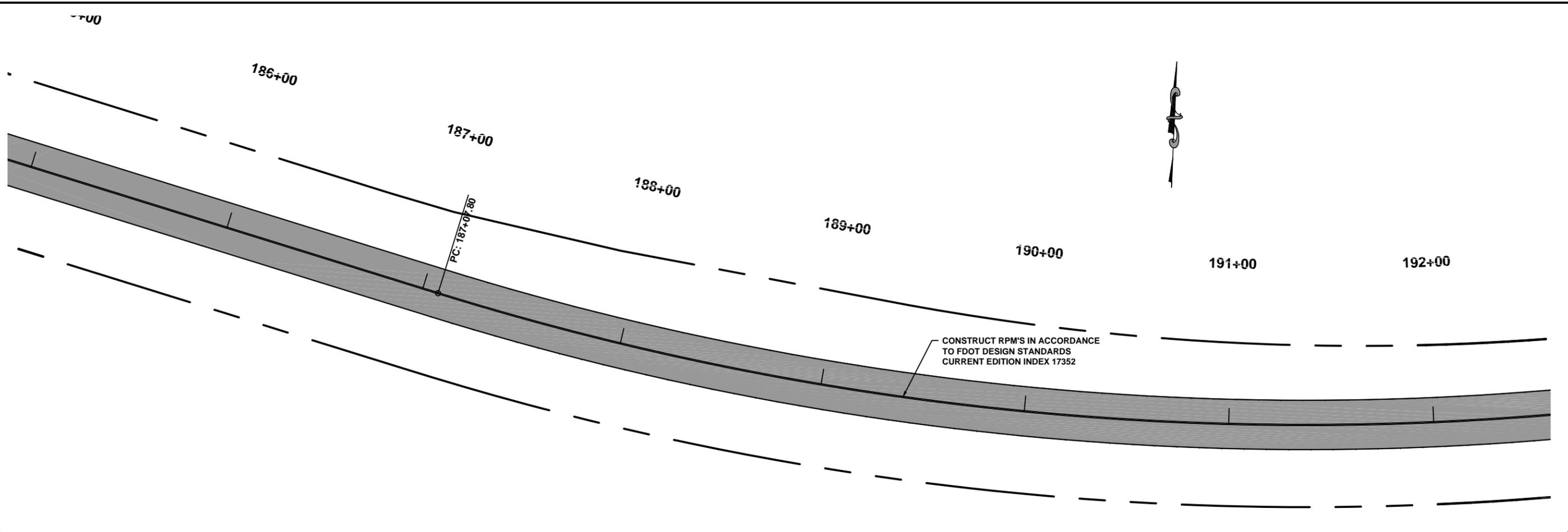
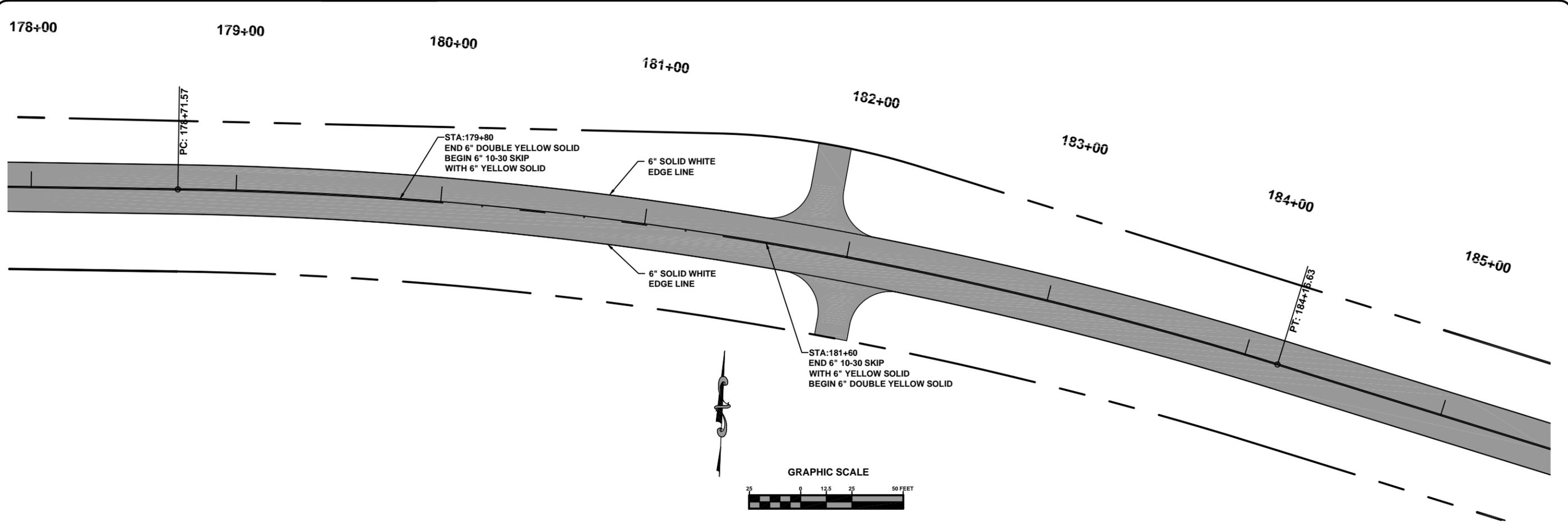


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 COLUMBIA COUNTY, FLORIDA

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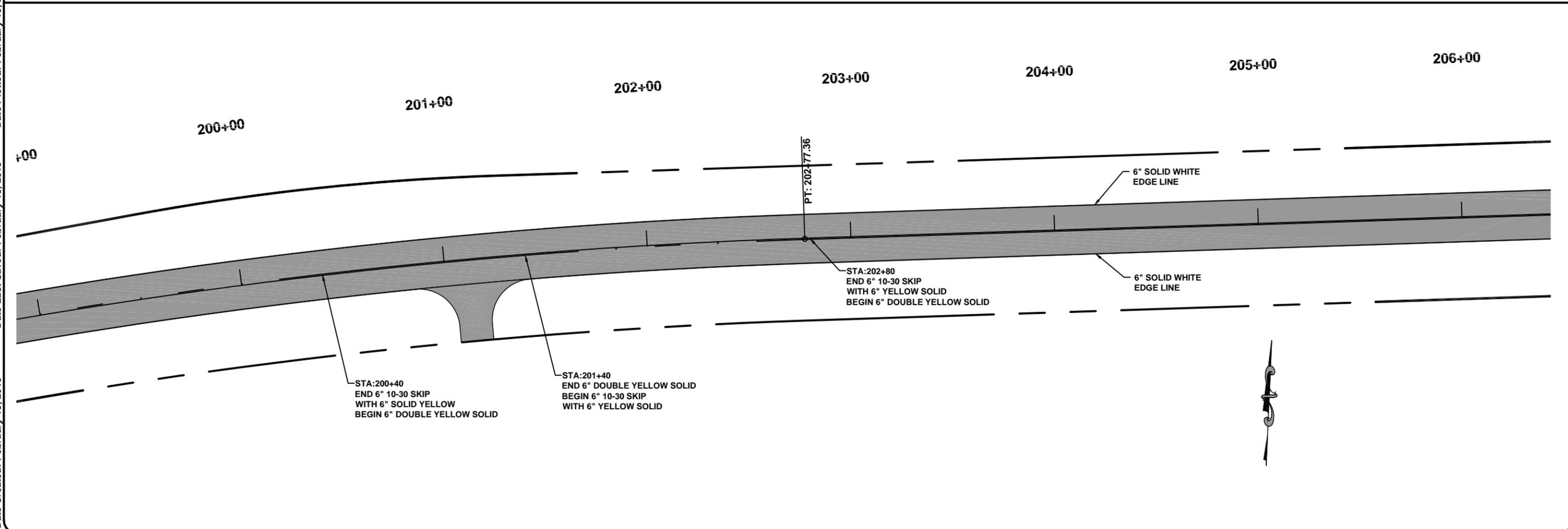
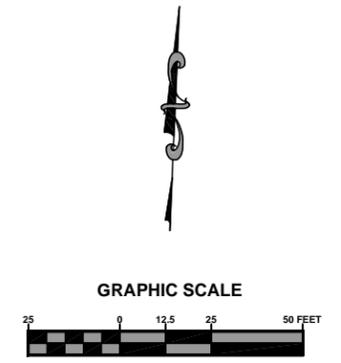
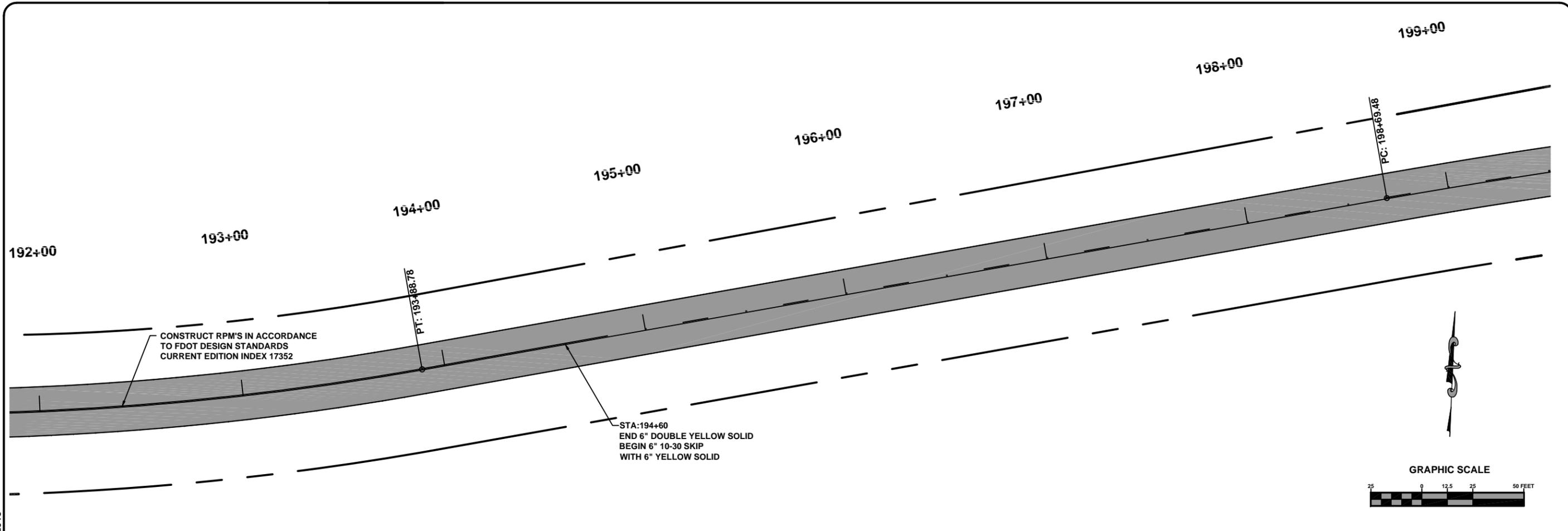
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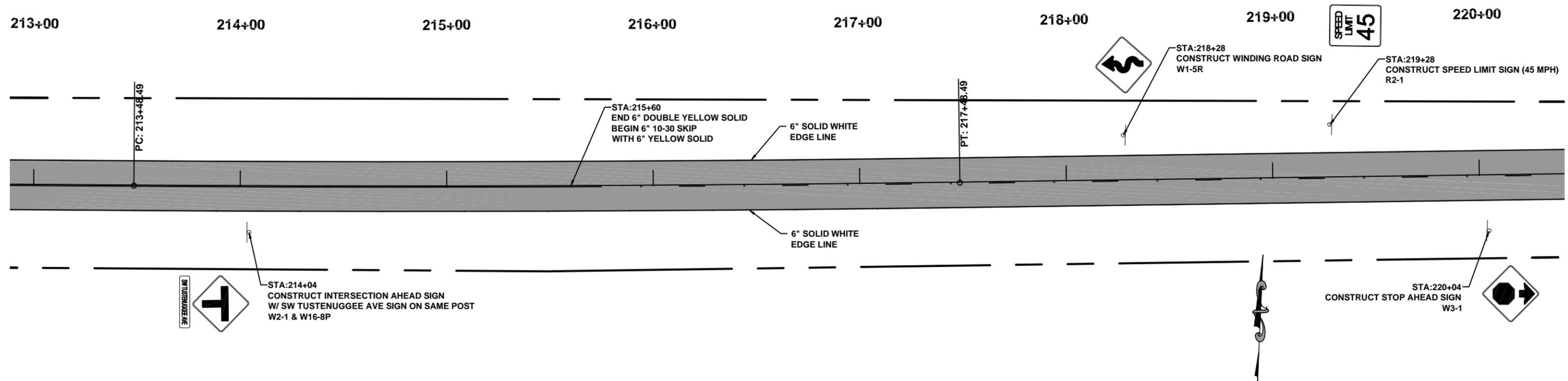
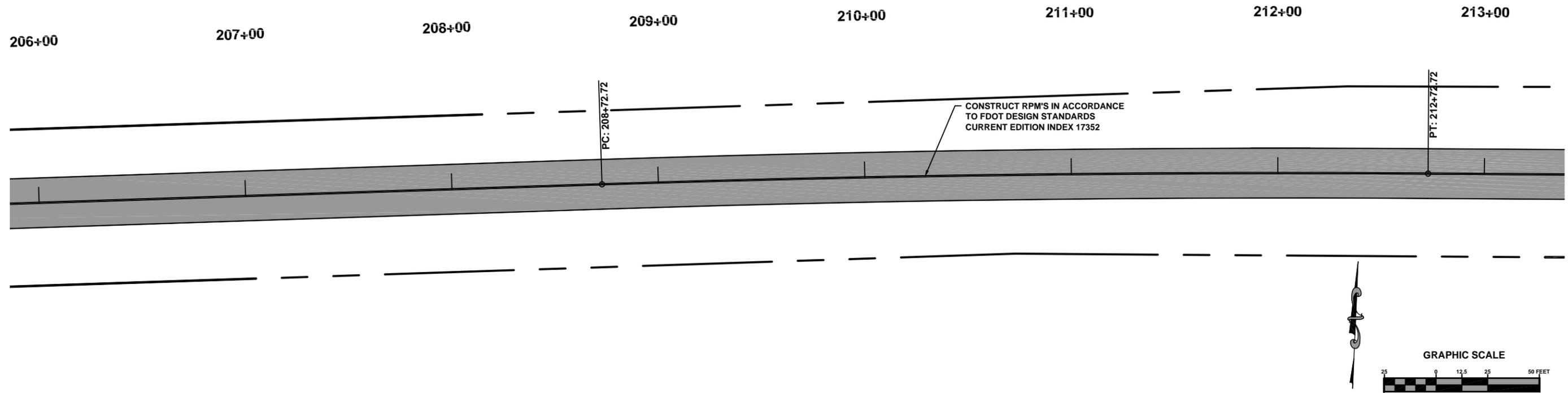


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 SW HERLONG STREET  
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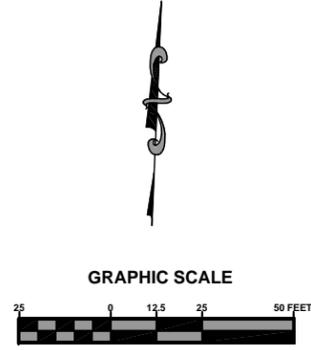
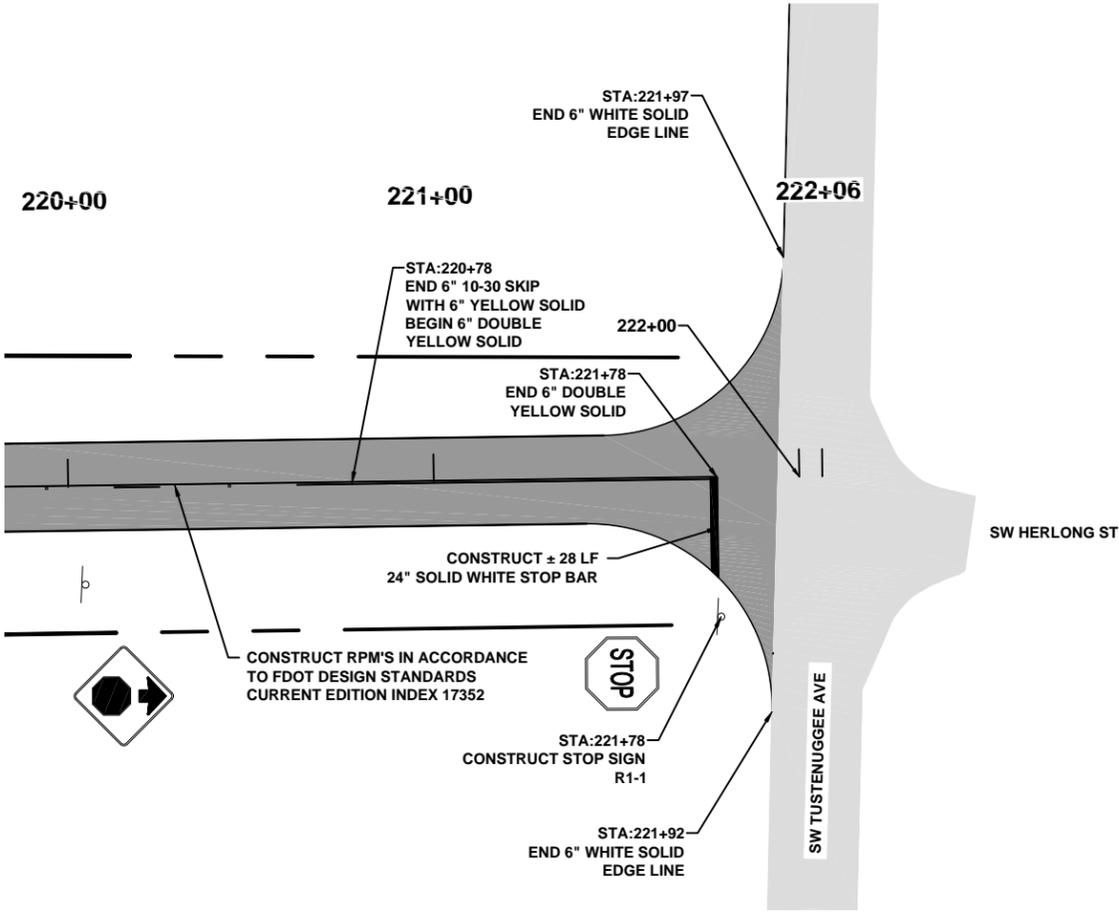
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### SIGNING AND MARKING

SW HERLONG STREET  
COLUMBIA COUNTY, FLORIDA



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Ph. 877-335-1525  
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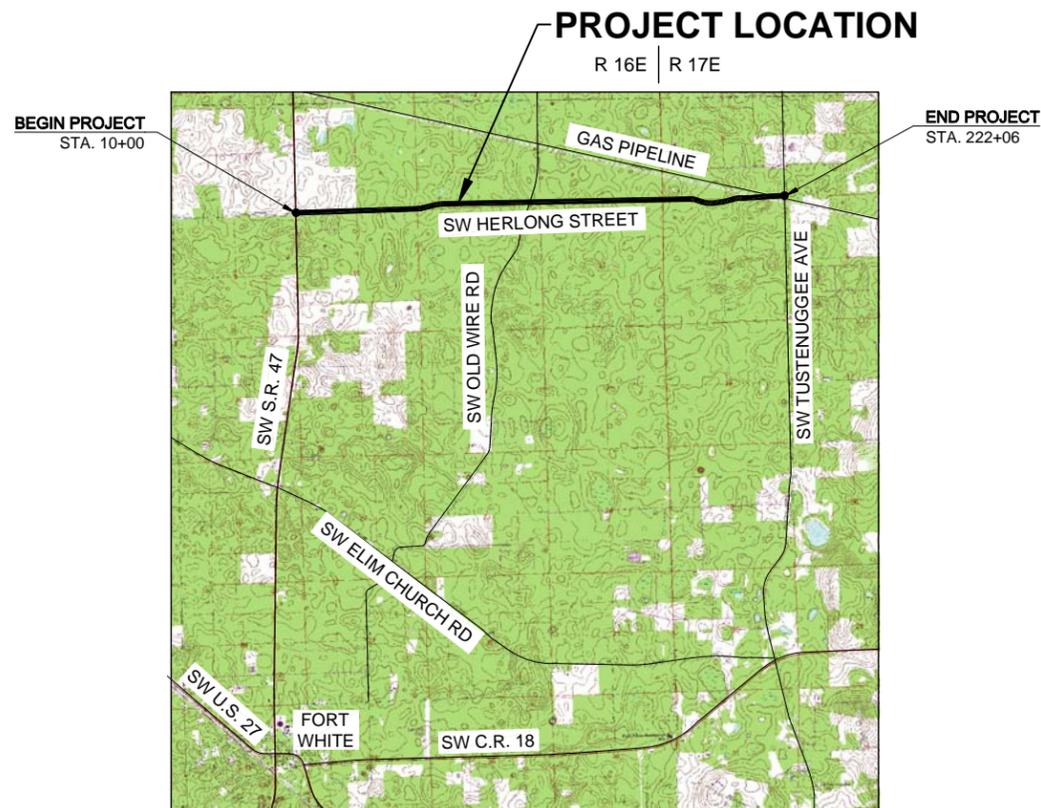
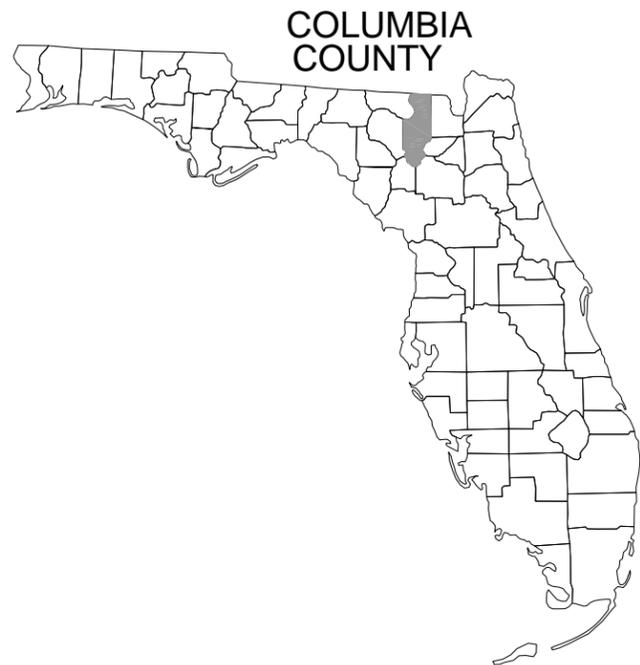
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 SW HERLONG STREET  
 COLUMBIA COUNTY, FLORIDA

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 P.O. BOX 3823  
 Tallahassee, FL 32318  
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 Ph. 877-335-1525  
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**COMPONENTS OF CONTRACT PLANS SET**

ROADWAY PLANS  
SIGNING AND PAVEMENT MARKING PLANS

# SW HERLONG STREET COLUMBIA COUNTY, FLORIDA ROADWAY PLANS



## SHEET INDEX

COVER SHEET	1
PROJECT LAYOUT	2
GENERAL NOTES & LEGEND	3
PLAN & PROFILES	4-19
CROSS SECTIONS	20-70
EROSION NOTES & DETAILS	71
ROADWAY DETAILS	72
BENCHMARK TABLE	73
STORM TABLES & DETAILS	74

ROADWAY PLANS SHOP DRAWINGS TO BE SUBMITTED TO:



PLANS PREPARED BY:

**PLANS PREPARED FOR:**

COLUMBIA COUNTY BOCC  
P.O. BOX 1529  
LAKE CITY, FLORIDA 32056  
386-758-1005

**GOVERNING STANDARDS AND SPECIFICATIONS:**

Florida Department of Transportation, 2015 Design Standards and revised Index Drawings as appended herein, and 2015 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents

For Design Standards click on the "Design Standards" link at the following web site:  
[www.dot.state.fl.us/rddesign/](http://www.dot.state.fl.us/rddesign/)

For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site:  
[www.dot.state.fl.us/specifications\\_office/](http://www.dot.state.fl.us/specifications_office/)

FINAL CONSTRUCTION PLANS  
2/18/2015

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

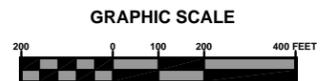
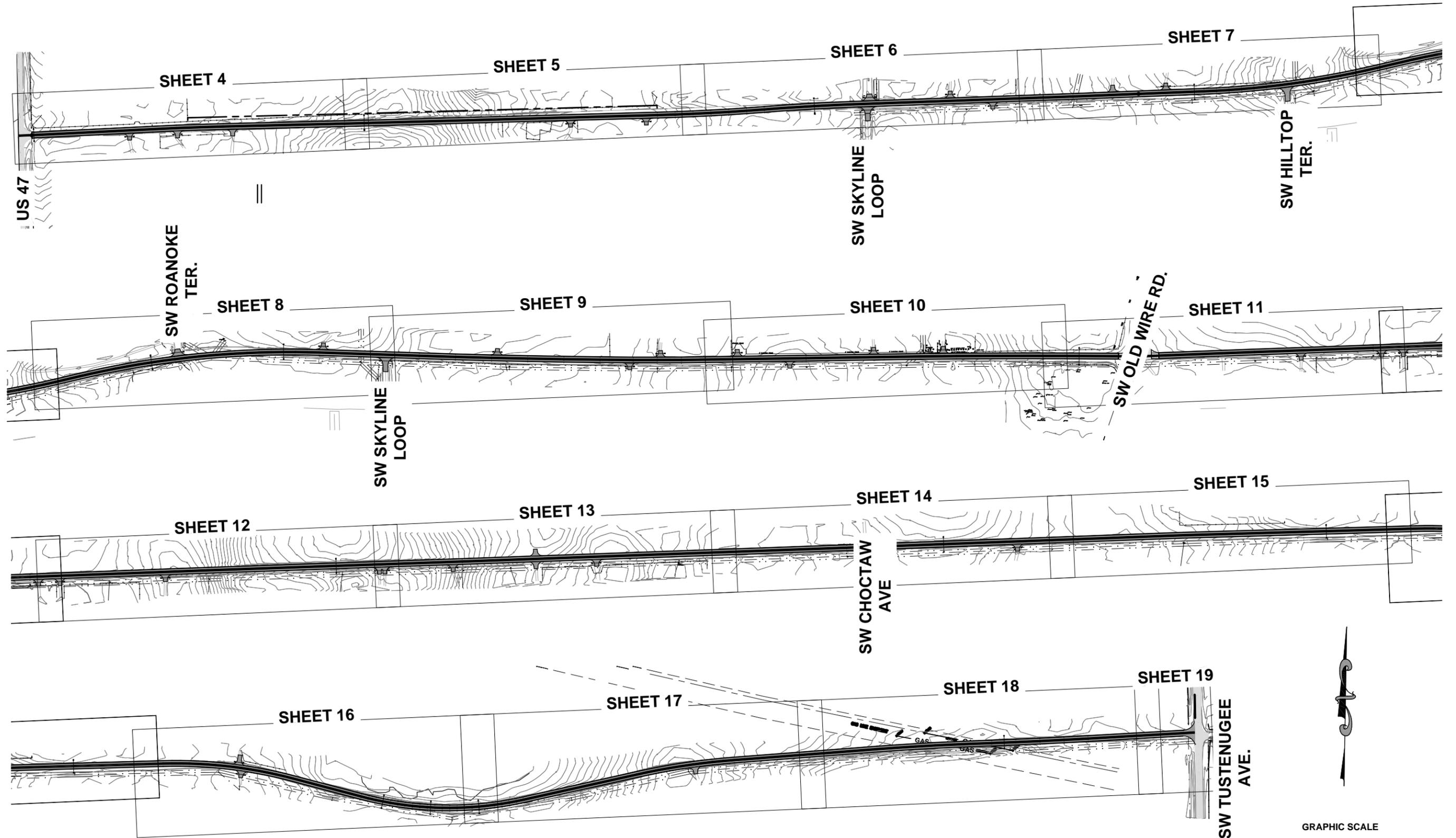
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**PROJECT LAYOUT**  
 SW HERLONG STREET  
 COLUMBIA COUNTY, FLORIDA

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# SYMBOLS AND ABBREVIATIONS

## GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE TO INSURE THAT ALL NEW WORK WILL FIT IN THE MANNER INTENDED ON THE PLANS. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF SUCH DIFFERENCES IMMEDIATELY AND PRIOR TO PROCEEDING WITH THE WORK.
2. THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS AS SET FORTH BY THE ISSUED SUWANNEE RIVER WATER MANAGEMENT DISTRICT ENVIRONMENTAL RESOURCE PERMIT.
3. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE IN A SECURE MANNER. ALL OPEN TRENCHES AND EXCAVATED AREAS SHALL BE PROTECTED FROM ACCESS BY THE GENERAL PUBLIC.
4. SURVEY INFORMATION SHOWN, WAS OBTAINED FROM A SURVEY PREPARED BY DONALD F. LEE & ASSOCIATES, FLORIDA CERTIFICATE NO. 7042.
5. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE ENGINEER.
6. THE SITE IS LOCATED IN SECTION 1, 2, 3, 10, 11 & 12, TOWNSHIP 6 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA.
7. THE CONTRACTOR SHALL IMPLEMENT ALL COMPONENTS OF THE EROSION AND SEDIMENTATION CONTROL PLAN PRIOR TO ANY EARTH DISTURBING ACTIVITIES. ALL COMPONENTS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL ALL VEGETATION IS ESTABLISHED, THE ENTIRE PROJECT AREA IS STABILIZED AND THE OWNER HAS ACCEPTED OPERATION AND MAINTENANCE.
8. ALL SLOPES STEEPER THAN 3:1 SHALL BE STAPLED SOD.
9. ALL DISTURBED AREAS NOT SODDED SHALL BE SEEDED WITH A MIXTURE OF LONG-TERM VEGETATION AND QUICK GROWING SHORT-TERM VEGETATION FOR THE FOLLOWING CONDITIONS. FOR THE MONTHS FROM SEPTEMBER THROUGH MARCH, THE MIX SHALL CONSIST OF 70 POUNDS PER ACRE OF LONG-TERM SEED AND 20 POUNDS PER ACRE OF WINTER RYE. FOR THE MONTHS OF APRIL THROUGH AUGUST, THE MIX SHALL CONSIST OF 70 PER ACRE OF LONG-TERM SEED AND 20 POUNDS PER ACRE OF MILLET.
10. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. CONTRACTOR SHALL PROTECT ALL UTILITIES WITHIN THE PROJECT AREAS.
11. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER CONTRACTORS WITHIN PROJECT AREA.
12. CONTRACTOR SHALL PROVIDE ACTUAL INVERT ELEVATIONS ON ALL DRAINAGE STRUCTURES, INCLUDING CULVERTS, PRIOR TO PLACING ANY BASE MATERIAL. DEVIATIONS FROM THE PLANS SHALL BE APPROVED BY THE ENGINEER BEFORE CONTINUING WORK.
13. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION) AND THE F.D.O.T. DESIGN STANDARDS (CURRENT EDITION), UNLESS OTHERWISE NOTED.
14. IF UNSUITABLE MATERIAL IS ENCOUNTERED DURING GRADING, CONTRACTOR SHALL REMOVE IN ACCORDANCE WITH F.D.O.T. DESIGN STANDARDS INDEX 500.
15. THE CONTRACTOR SHALL NOTIFY THE COUNTY AT LEAST 48 HOURS IN ADVANCE PRIOR TO BEGINNING OF CONSTRUCTION.
16. THE CONTRACTOR SHALL SUBMIT A NOTICE OF CONSTRUCTION COMMENCEMENT TO THE WATER MANAGEMENT DISTRICT AT LEAST 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
17. NO FINAL TESTING WILL BE ACCEPTED UNLESS WITNESS BY THE COUNTY'S REPRESENTATIVE.
18. NO WORK SHALL BE PERFORMED ON SATURDAY, SUNDAY, OR COUNTY RECOGNIZED HOLIDAYS WITHOUT A WRITTEN APPROVAL FORM FROM THE COUNTY AND COUNTY ENGINEER.

19. THE CONTRACTOR SHALL SUBMIT A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM NOTICE OF INTENT ALONG WITH SUPPORTING DOCUMENTATION TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AT LEAST 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMIT FEES.
20. IF DURING CONSTRUCTION OR OPERATION OF THE STORM WATER MANAGEMENT SYSTEM, A STRUCTURAL FAILURE IS OBSERVED THAT HAS THE POTENTIAL TO CAUSE THE DIRECT DISCHARGE OF SURFACE WATER INTO THE FLORIDIAN AQUIFER SYSTEM, CORRECTIVE ACTIONS DESIGNED OR APPROVED BY A REGISTERED PROFESSIONAL SHALL BE TAKEN AS SOON AS PRACTICAL TO CORRECT THE FAILURE. A REPORT PREPARED BY A REGISTERED PROFESSIONAL MUST BE PROVIDED AS SOON AS PRACTICAL TO THE DEPARTMENT FOR REVIEW AND APPROVAL THAT PROVIDES REASONABLE ASSURANCE THAT THE BREACH WILL BE PERMANENTLY CORRECTED.
23. CONTRACTOR SHALL STRIPE ROADWAY IN ACCORDANCE WITH THE PLANS, FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) SPECIFICATIONS 2015, CURRENT FDOT DESIGN STANDARDS AND CURRENT MUTCD.
24. ALL ROADWAY CONNECTIONS SHALL BE PRIVATE DRIVES UNLESS OTHERWISE DENOTED IN PLANS.
25. CONTRACTOR SHALL MAINTAIN MAILBOXES DURING CONSTRUCTION. ALL MAILBOXES SHALL BE RELOCATED.
26. ALL PIPE LENGTH LISTED IN PLANS INCLUDE MITERED END LENGTH.
27. CONTACT PHONE NUMBERS  
 BELLSOUTH 1-800-432-4770  
 CLAY ELECTRIC 1-888-434-9844  
 COLUMBIA COUNTY 386-758-1019  
 COMCAST CABLE 1-904-374-8000  
 ENERGY TRANSFER (GAS) 1-407-838-7171
28. THE CONTRACTOR SHALL DELINEATE THE  $\epsilon$  OF THE LIMEROCK WITH RPM'S ONCE FINISHED GRADE HAS BEEN OBTAINED.

	BENCHMARK		MANHOLE SANITARY EXISTING		SOIL BORING LOCATION
	BOX CABLE		MANHOLE SANITARY PROPOSED		TAP SANITARY SEWER EXISTING
	BOX ELECTRICAL		MANHOLE STORM EXISTING		TAP SANITARY SEWER PROPOSED
	BOX TRAFFIC LIGHT		MANHOLE STORM PROPOSED		VALVE, AIR VENT AUTO EXISTING
	CATCH BASIN ROUND		MANHOLE WATER EXISTING		VALVE, AIR VENT AUTO PROPOSED
	CATCH BASIN SQUARE		MANHOLE WATER PROPOSED		VALVE, AIR VENT HAND EXISTING
	CLEANOUT EXISTING		DELTA POINT EXISTING		VALVE, AIR VENT HAND PROPOSED
	CLEANOUT PROPOSED		DELTA POINT PROPOSED		VALVE, BACKFLOW PREVENTER EXISTING
	CULVERT MITERED END SECTION		STANDARD POINT		VALVE, BACKFLOW PREVENTER PROPOSED
	DITCH BLOCK		METER, GAS EXISTING		VALVE, GAS SHUT OFF EXISTING
	DOT MARKER FOUND		METER, GAS PROPOSED		VALVE, GAS SHUT OFF PROPOSED
	ELECTRICAL DISTRIBUTION SWITCH		METER, SANITARY EXISTING		VALVE, GATE GAS EXISTING
	FLOW ARROW		METER, SANITARY PROPOSED		VALVE, GATE GAS PROPOSED
	GRINDER STATION EXISTING		METER, WATER EXISTING		VALVE, GATE WATER EXISTING
	GRINDER STATION PROPOSED		METER, WATER PROPOSED		VALVE, GATE WATER PROPOSED
	HANDICAP SYMBOL		METER WATER STATION		VALVE, WATER IRRIGATION CONTROL
	HANDHOLE STORM		MONUMENT FOUND CONCRETE		VALVE, SANITARY VAULT EXISTING
	HANDHOLE WATER		MONUMENT (PRM) MARKER CONCRETE		VALVE, SANITARY VAULT PROPOSED
	HYDRANT, FIRE EXISTING		MONUMENT SET CONCRETE		VALVE, WATER VAULT EXISTING
	HYDRANT, FIRE PROPOSED		PEDESTAL, TELEPHONE EXISTING		VALVE, WATER VAULT PROPOSED
	HYDRANT, FLUSHING EXISTING		PEDESTAL, TELEPHONE PROPOSED		WATER STATION
	HYDRANT, FLUSHING PROPOSED		POLE, GUY WIRE EXISTING		WATER TANK
	IRON ROD SET		POLE, GUY WIRE PROPOSED		WELL
	IRON ROD FOUND		POLE, LIGHT EXISTING		WELL, MONITORING
	LINE, BASE		POLE, LIGHT PROPOSED		SEPTIC TANK
	LINE, CENTER		POLE, POWER EXISTING		ASPHALT
	LINE, PROPERTY		POLE, POWER PROPOSED		CONCRETE
	LIFT STATION EXISTING		POLE, POWER W/TTRANSFORMER		GRAVEL
	LIFT STATION PROPOSED		POLE, UTILITY		TITLE MARK
	MANHOLE, ELECTRICAL EXISTING		POST, FIBER OPTIC WARNING		SECTION DETAIL MARK
	MANHOLE, ELECTRICAL PROPOSED		SIGN, DOUBLE POST EXISTING		
	MANHOLE, GAS EXISTING		SIGN, DOUBLE POST PROPOSED		
	MANHOLE, GAS PROPOSED		SIGN, SINGLE POST EXISTING		
			SIGN, SINGLE POST PROPOSED		

	RAILROAD TRACKS		ARC LENGTH		POINT OF BEGINNING
	SILT FENCE		BENCHMARK CALCULATED		POINT OF COMMENCEMENT
	GAS		CHORD BEARING		POINT OF CURVATURE
	BURIED ELECTRIC		CONCRETE MONUMENT		POINT OF COMPOUND CURVATURE
	BURIED TELEPHONE		CLEANOUT		POINT OF INTERSECTION
	BURIED CABLE TV		DEED		POINT OF REVERSE CURVATURE
	BURIED FIBER OPTIC		DITCH, TOP OF		POINT OF TANGENT
	OVERHEAD ELECTRIC		DITCH, BOTTOM OF		PIPE, CORRUGATED METAL
	OVERHEAD TELEPHONE		EAST		PIPE, METAL ARC BITUMINOUS COATED
	FENCE		EDGE OF PAVEMENT		PIPE, REINFORCED CONCRETE
	PROPERTY BOUNDARY LINE		ELECTRICAL FOUND		PIPE, REINFORCED CONCRETE ELLIPTICAL
	RIGHT OF WAY LINE		FINISH FLOOR ELEVATION		PIPE, POLYETHYLENE
	CONTOUR MINOR EXISTING		GAS		PIPE, POLYETHYLENE HIGH DENSITY
	CONTOUR MAJOR EXISTING		GROUND SPOT ELEVATION		PLAT
	CONTOUR MINOR PROPOSED		IRON PIPE		RADIUS
	CONTOUR MAJOR PROPOSED		IRON ROD		RANGE
	EASEMENT LINE		IRON ROD AND CAP		REBAR
			LINEAR FEET		REBAR AND CAP
			LINE, BASE		RECLAIMED WATER
			LINE, CENTER		RIGHT OF WAY
			LINE, PROPERTY		SANITARY SEWER
			LINE, PROPERTY MEASURED		SECTION
			NAIL		SEWER TAP
			NAIL AND DISK		SOUTH
			MANHOLE NO IDENTIFICATION		STORM SEWER
			NORTH		STORM WATER MANAGEMENT FACILITY
			OFFICIAL RECORD BOOK		TANGENT
			OFFSET		TOWNSHIP
			OVERHEAD CABLE		UNDERGROUND CABLE
			OVERHEAD ELECTRIC		UNDERGROUND ELECTRIC
			OVERHEAD TELEPHONE		UNDERGROUND TELEPHONE
			PAGE(S)		VALVE, COMBINATION AIR/VACUUM
			PERMANENT CONTROL POINT		WATER LINE
					WATER METER

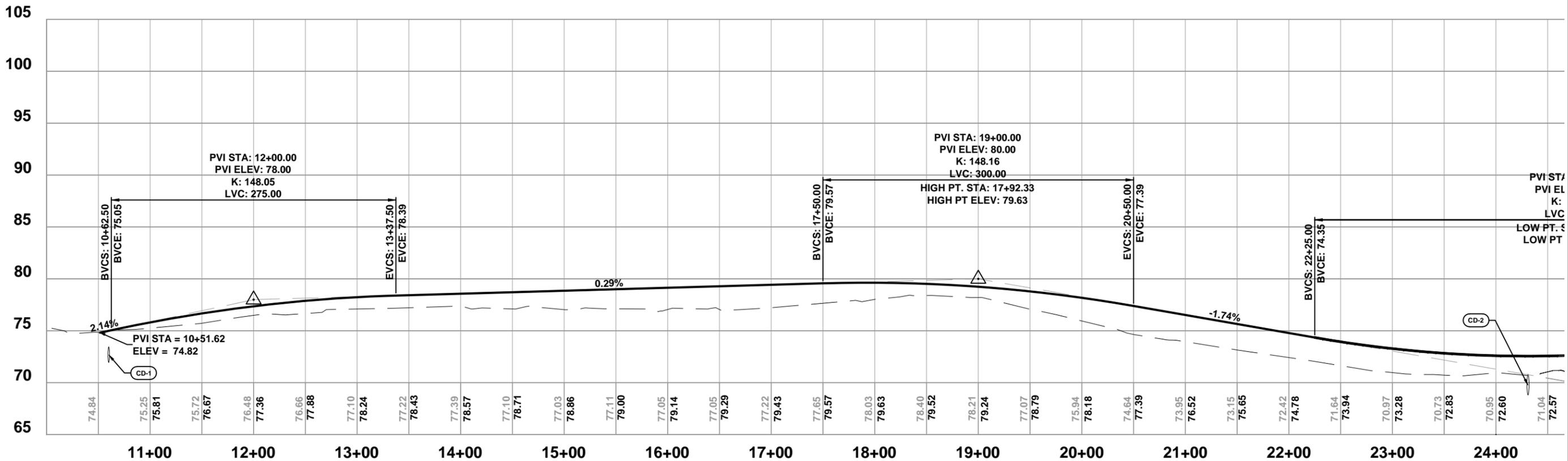
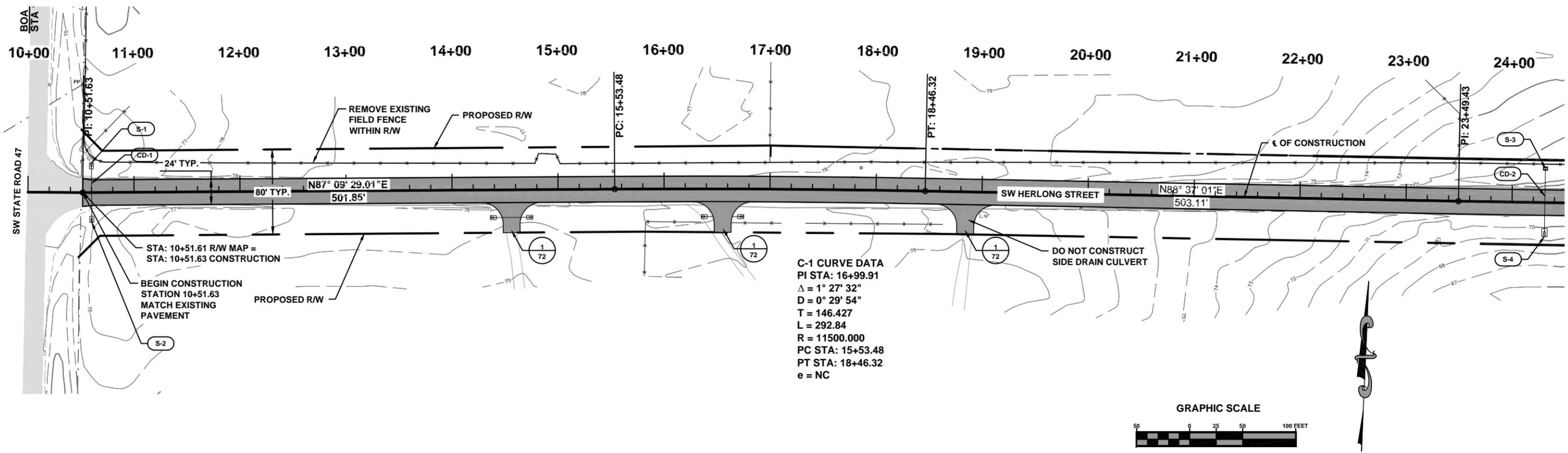
**North Florida Professional Services, Inc.**  
 P.O. BOX 180998  
 Tallahassee, FL 32318  
 Ph. 877-335-1525  
 Fax. 904-290-1111



## GENERAL NOTES & LEGEND

HERLONG STREET  
COLUMBIA COUNTY, FLORIDA

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DATE: 11/24/08	SCALE: [Blank]	SHEET NO. 3	



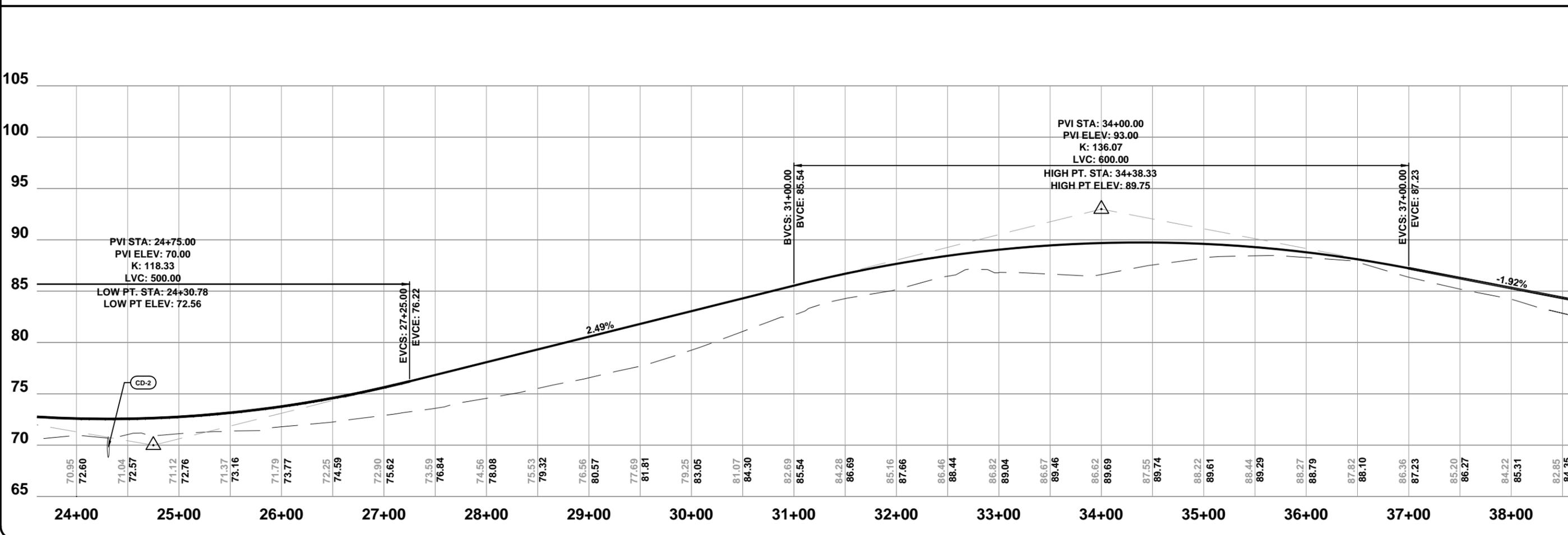
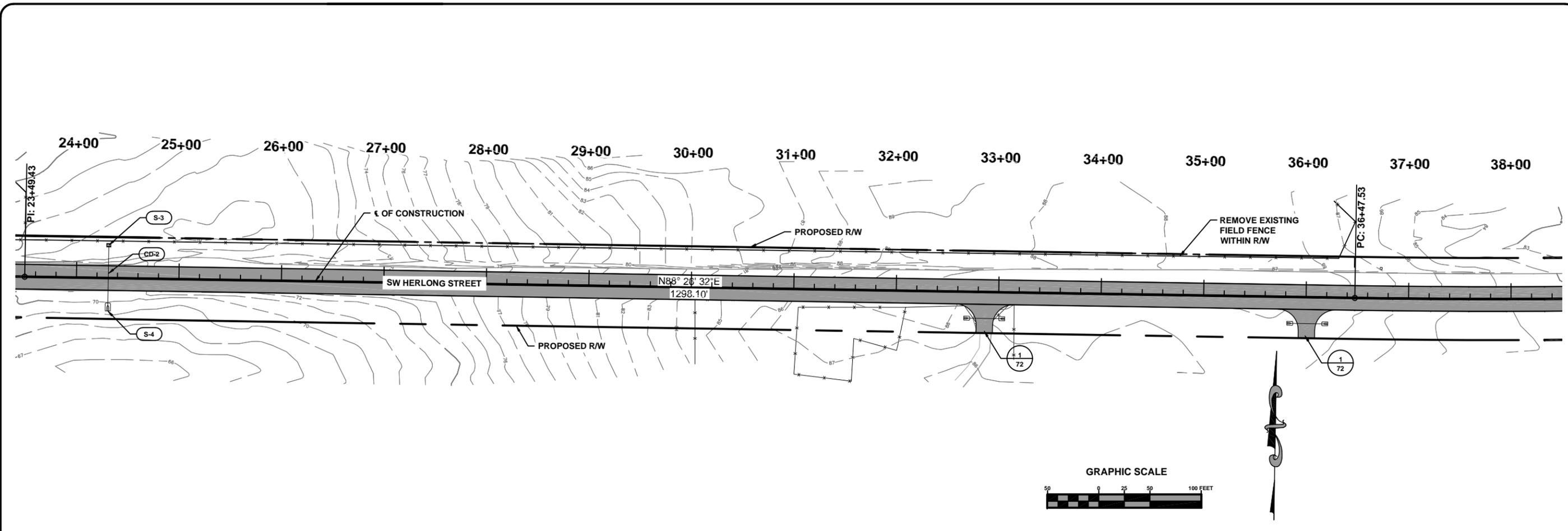
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 SW HERLONG STREET  
 COLUMBIA COUNTY, FLORIDA

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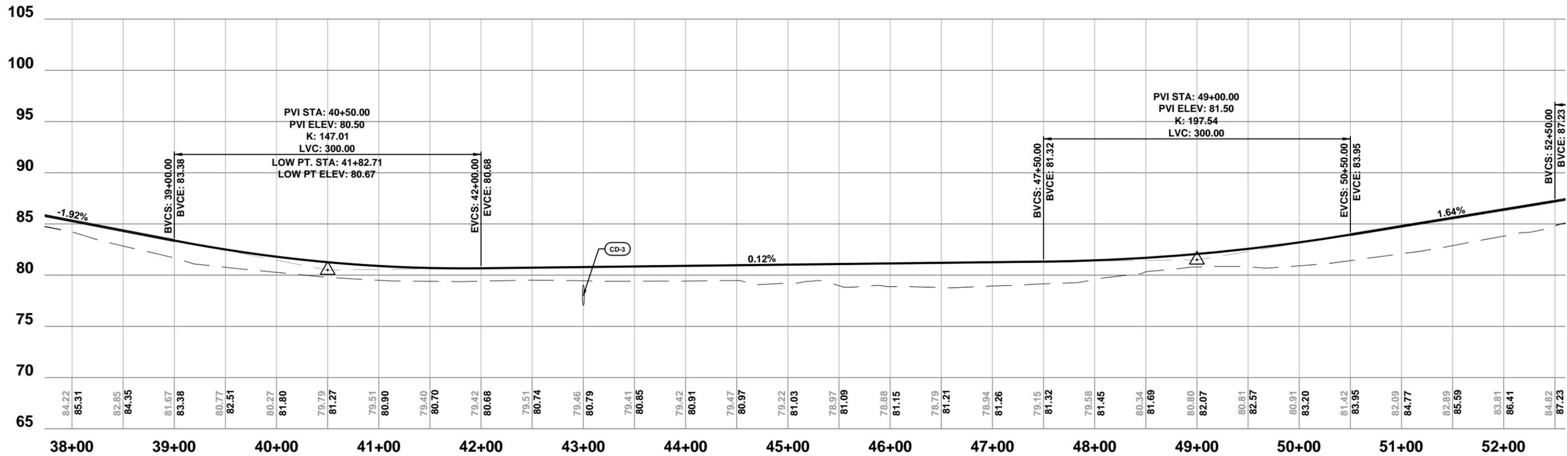
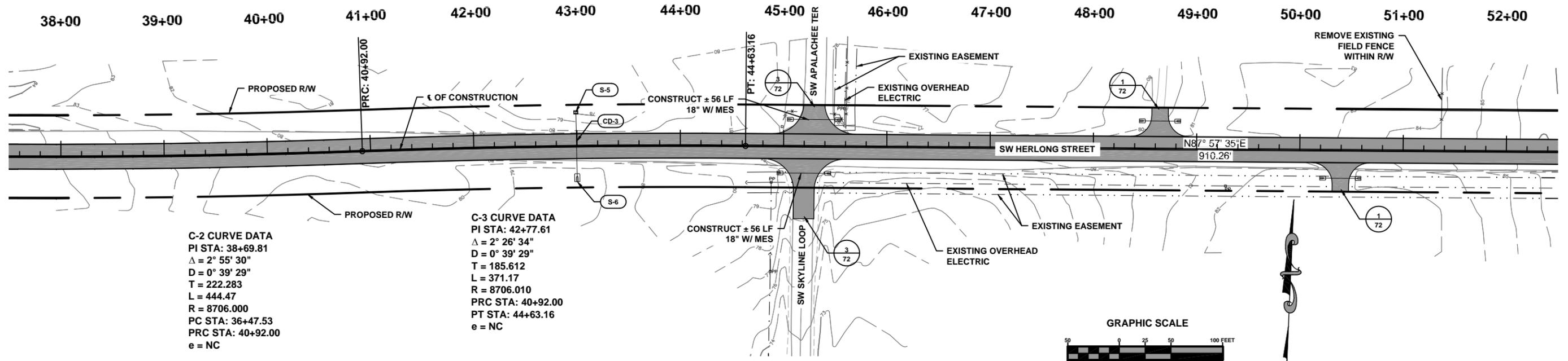
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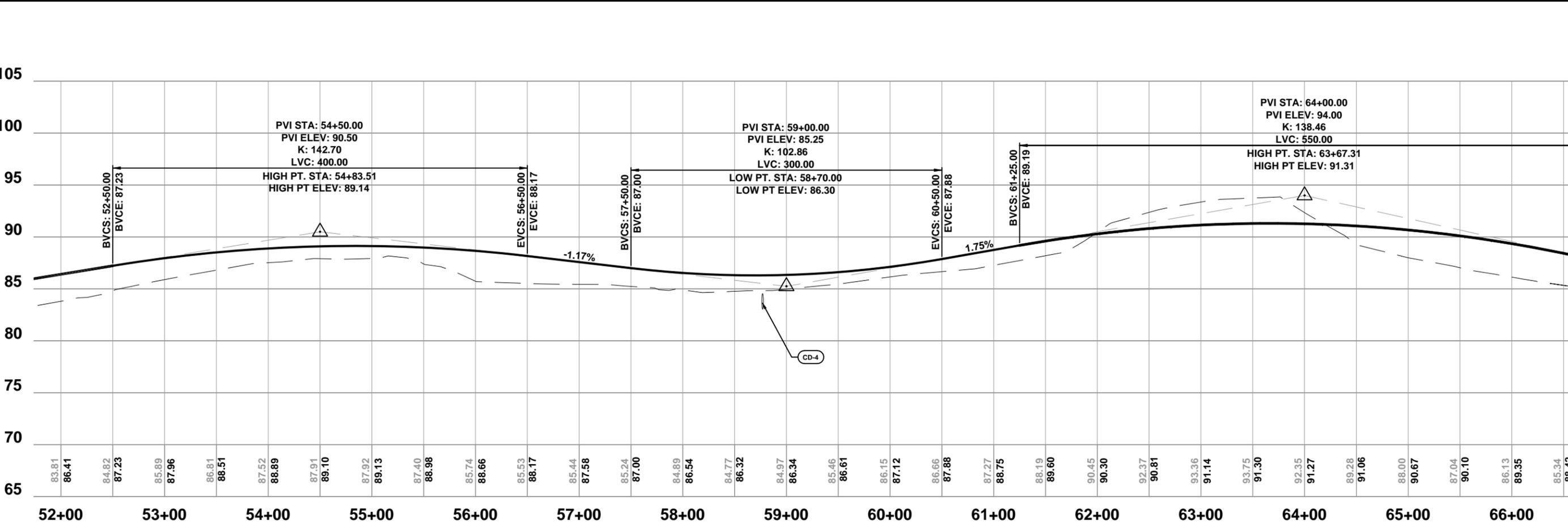
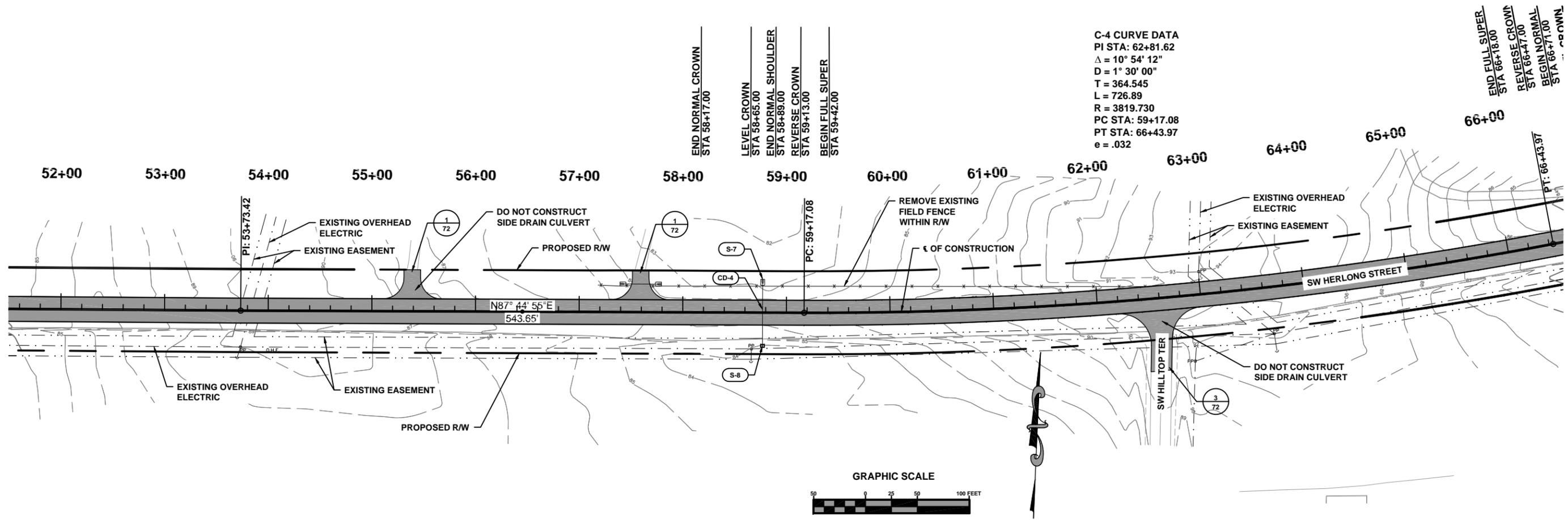
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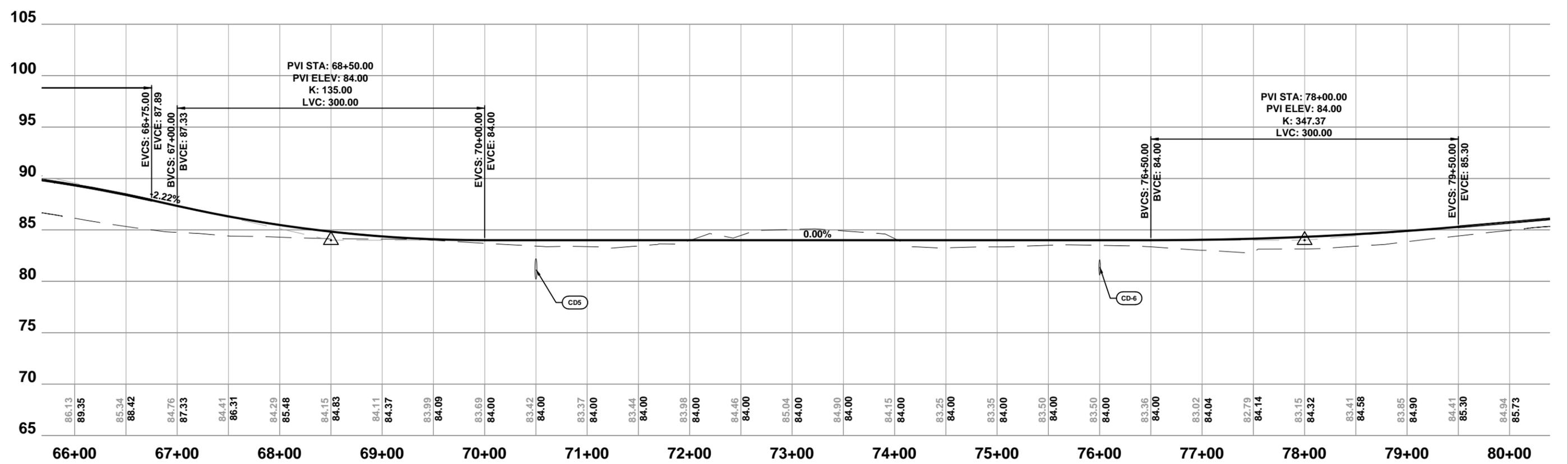
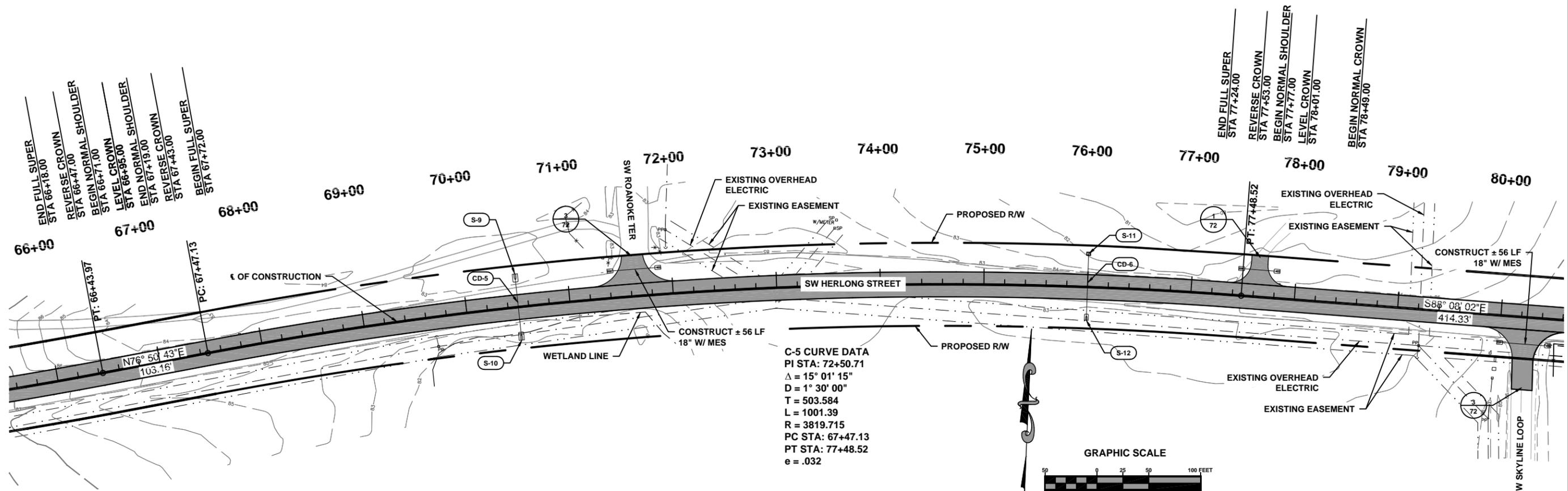
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 Fax. 386-752-4674  
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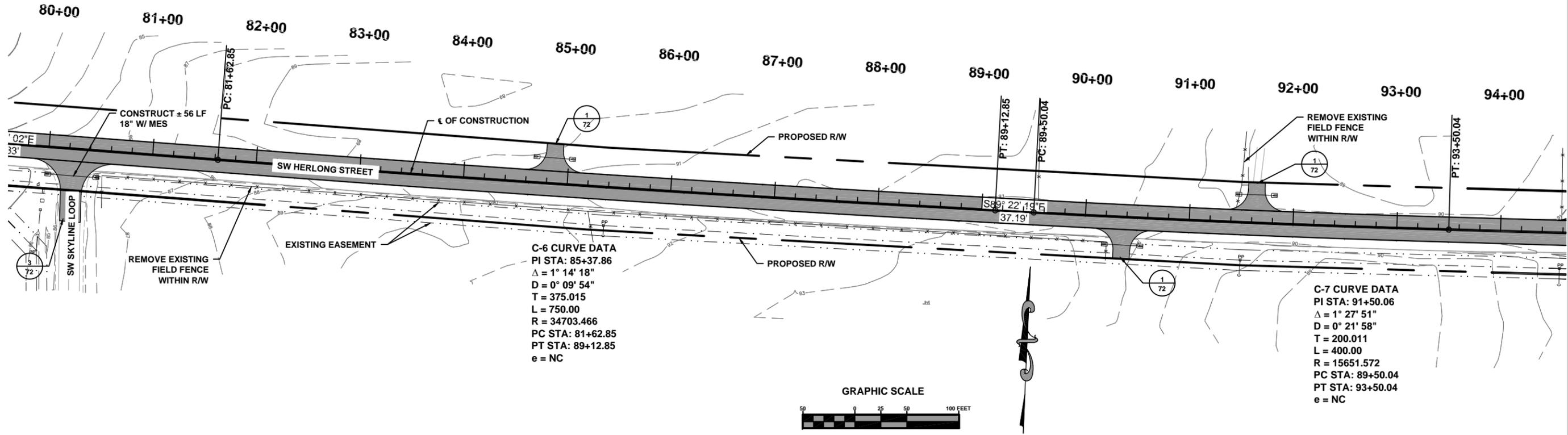
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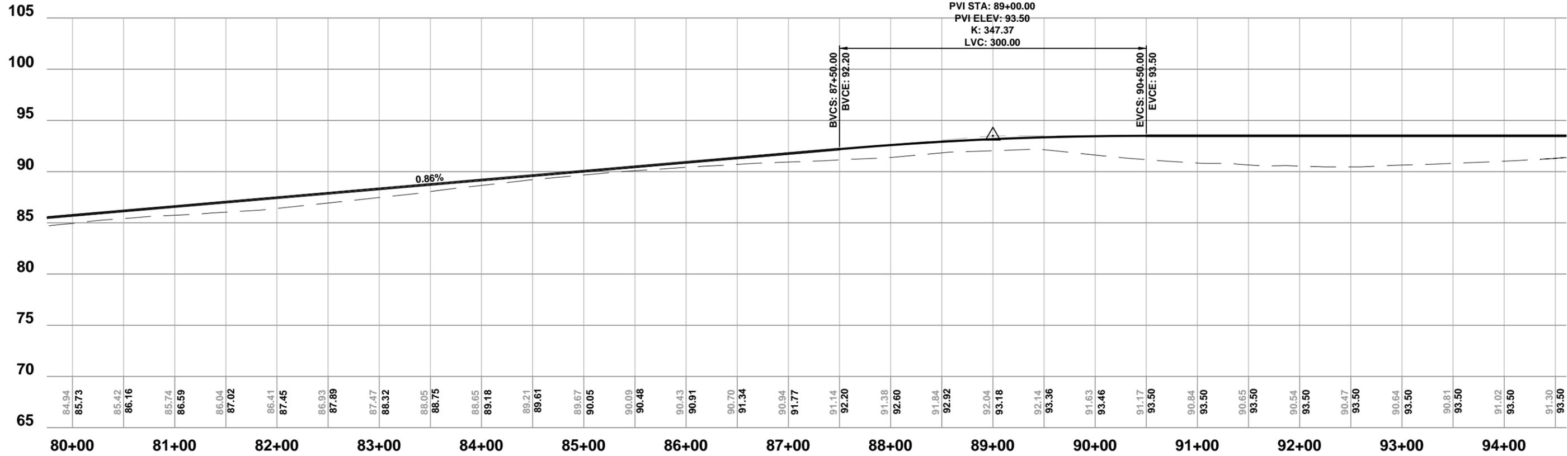
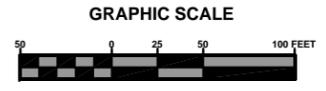
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**C-6 CURVE DATA**  
 PI STA: 85+37.86  
 $\Delta = 1^\circ 14' 18''$   
 $D = 0^\circ 09' 54''$   
 $T = 375.015$   
 $L = 750.00$   
 $R = 34703.466$   
 PC STA: 81+62.85  
 PT STA: 89+12.85  
 $e = NC$

**C-7 CURVE DATA**  
 PI STA: 91+50.06  
 $\Delta = 1^\circ 27' 51''$   
 $D = 0^\circ 21' 58''$   
 $T = 200.011$   
 $L = 400.00$   
 $R = 15651.572$   
 PC STA: 89+50.04  
 PT STA: 93+50.04  
 $e = NC$



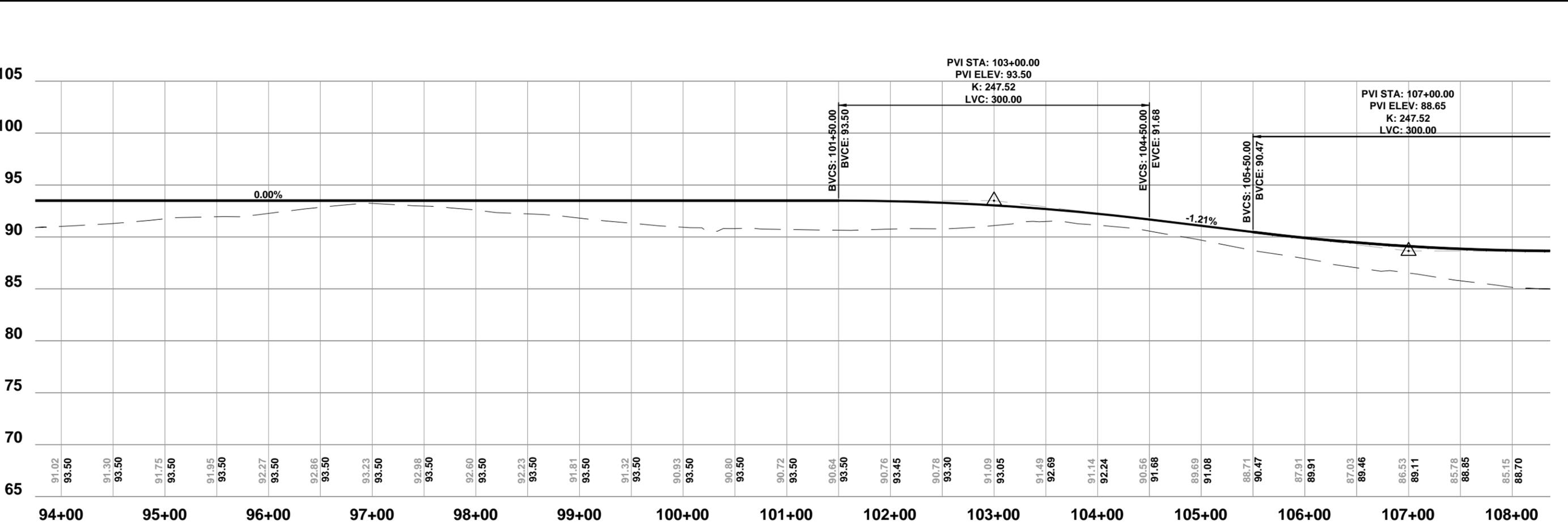
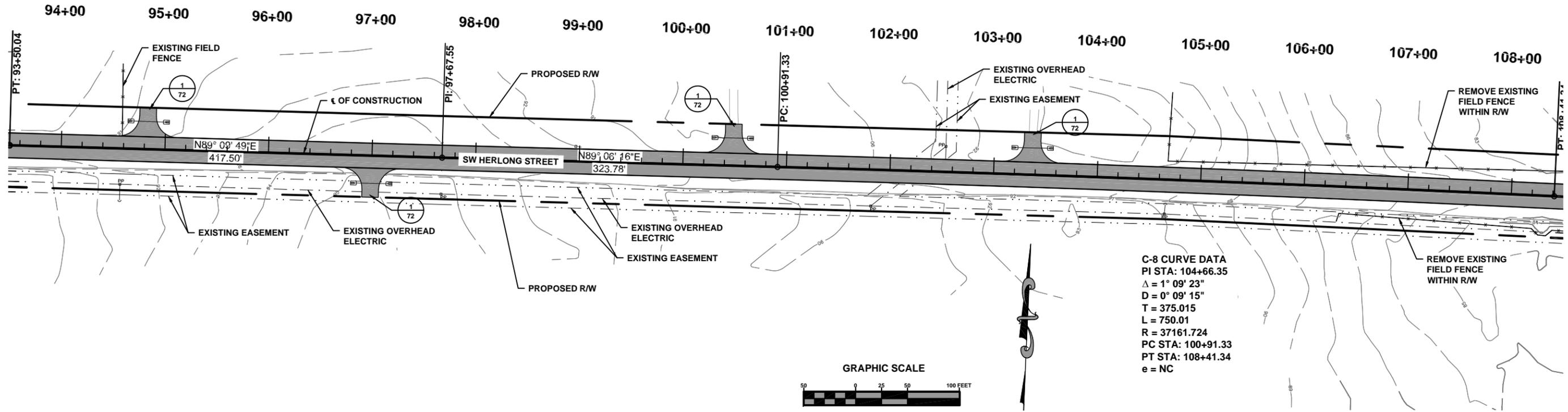
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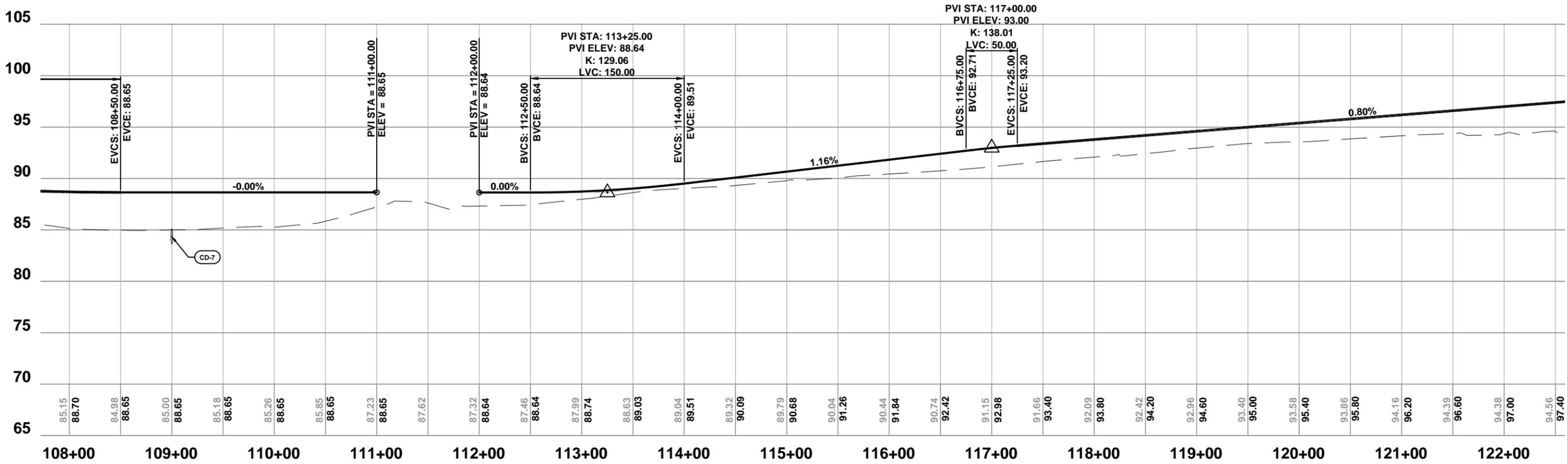
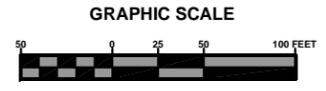
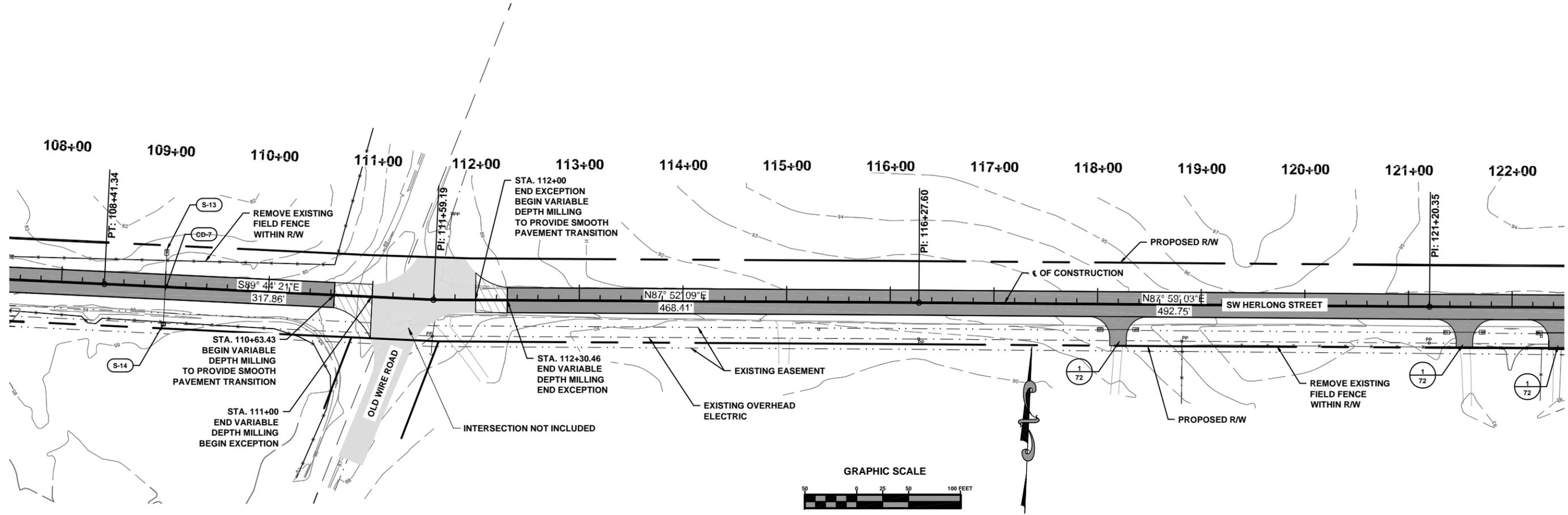
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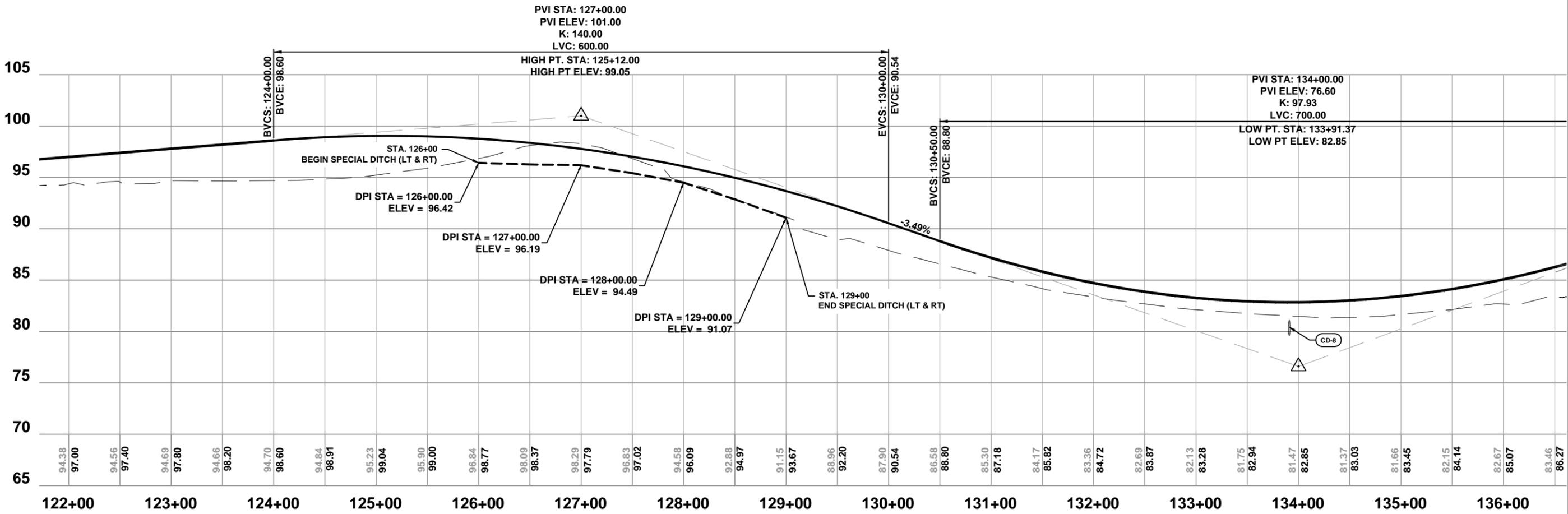
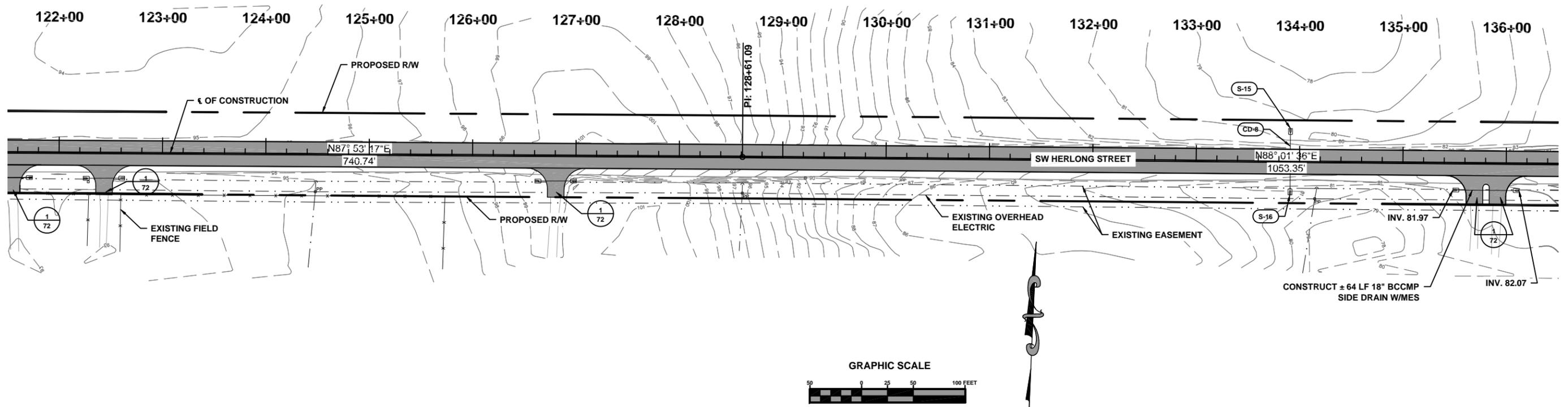
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 Fax. 386-752-4674  
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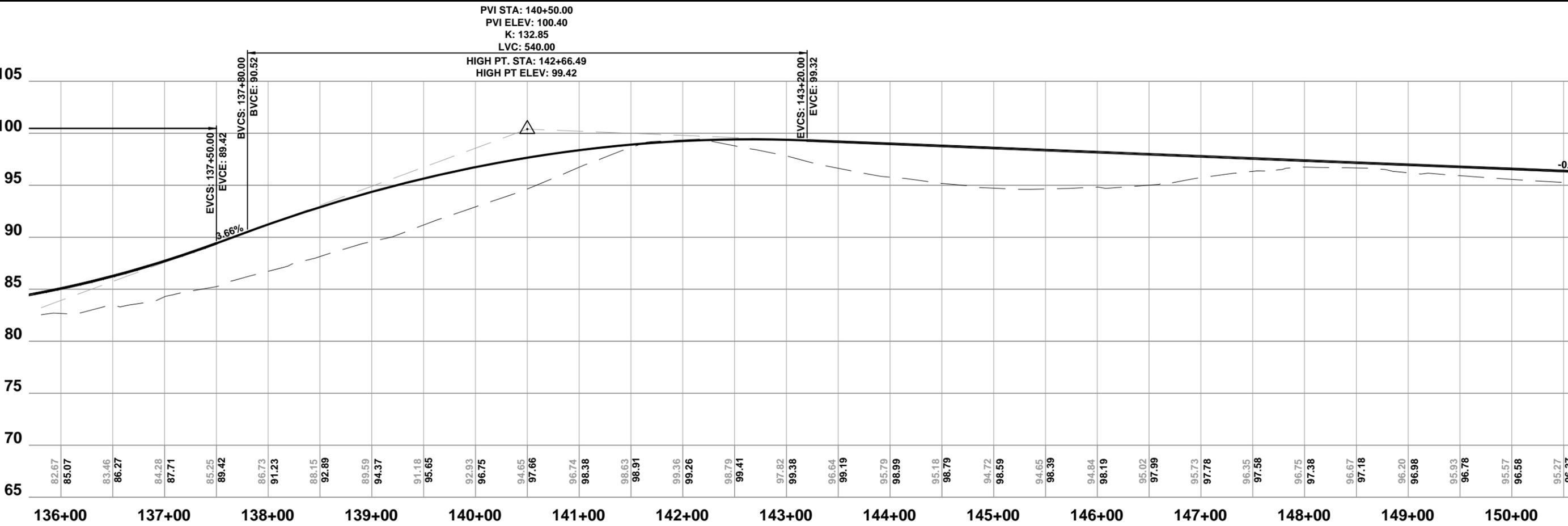
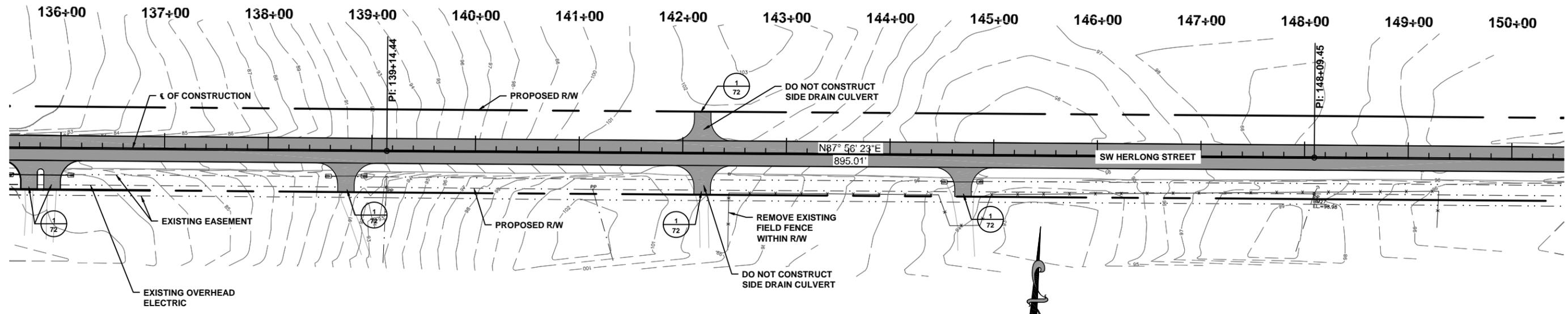
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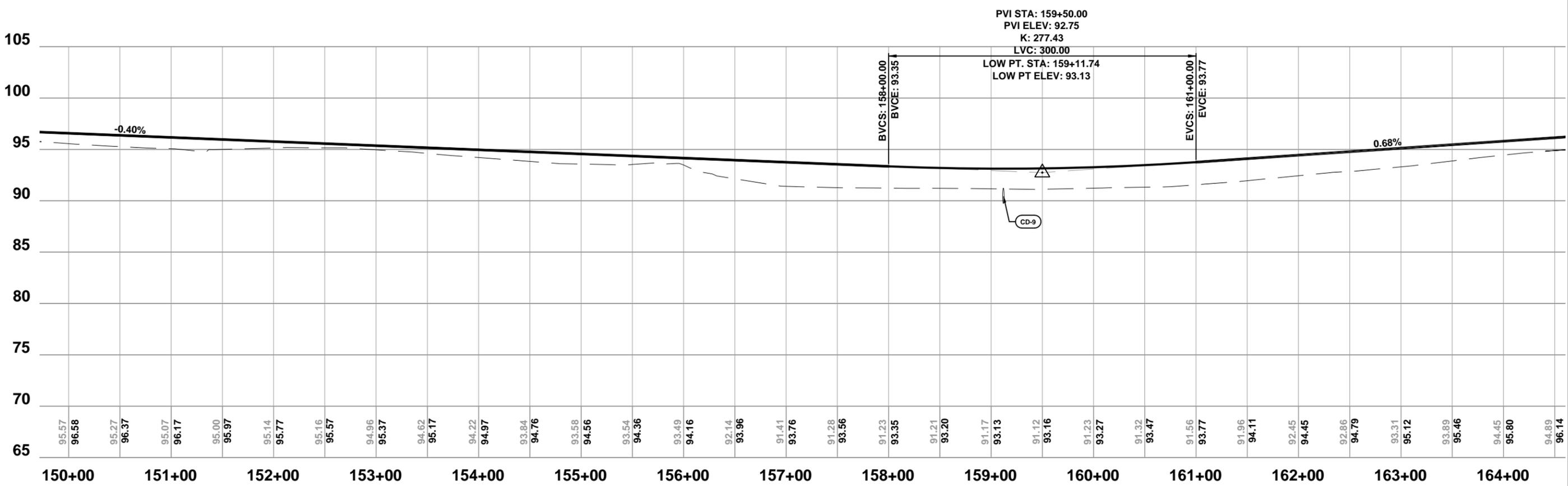
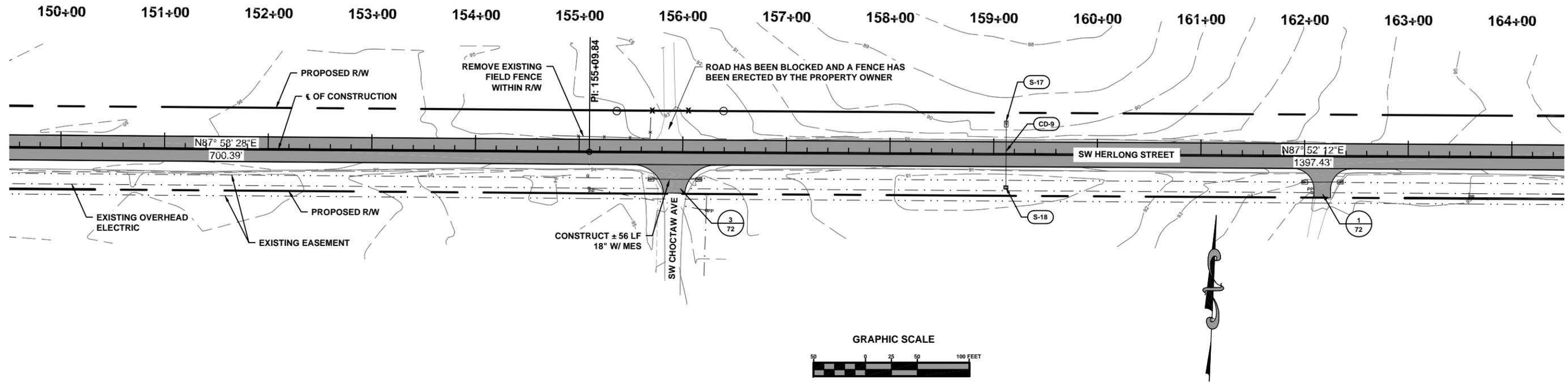
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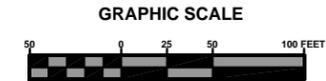
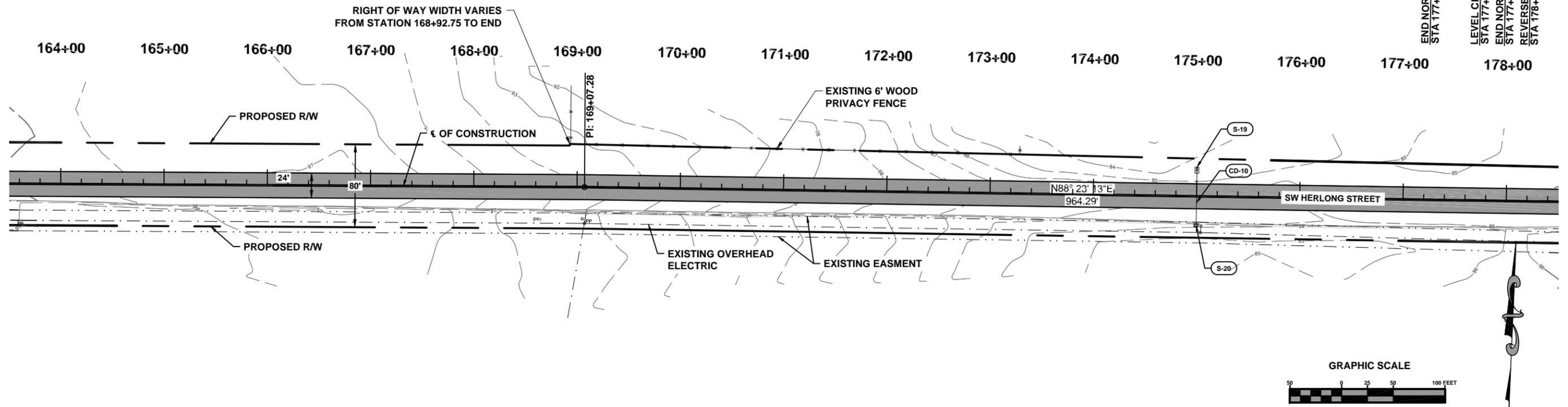


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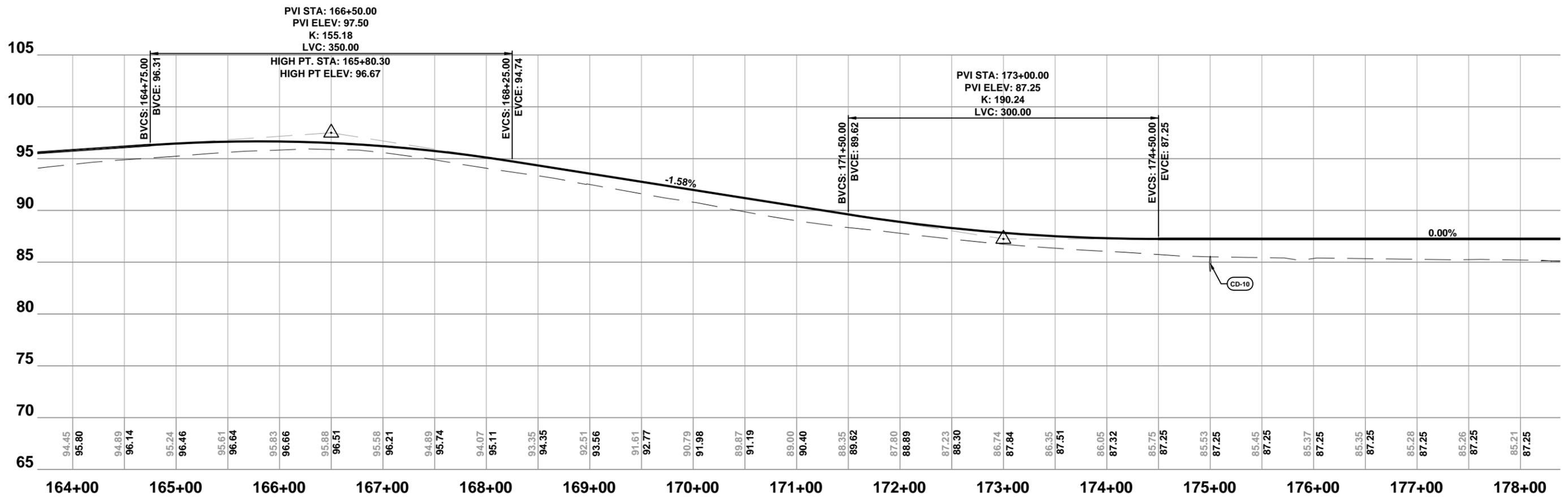
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END NORMAL CROWN  
 STA 177+24.00  
 LEVEL CROWN  
 STA 177+72.00  
 END NORMAL SHOULDER  
 STA 177+96.00  
 REVERSE CROWN  
 STA 178+20.00



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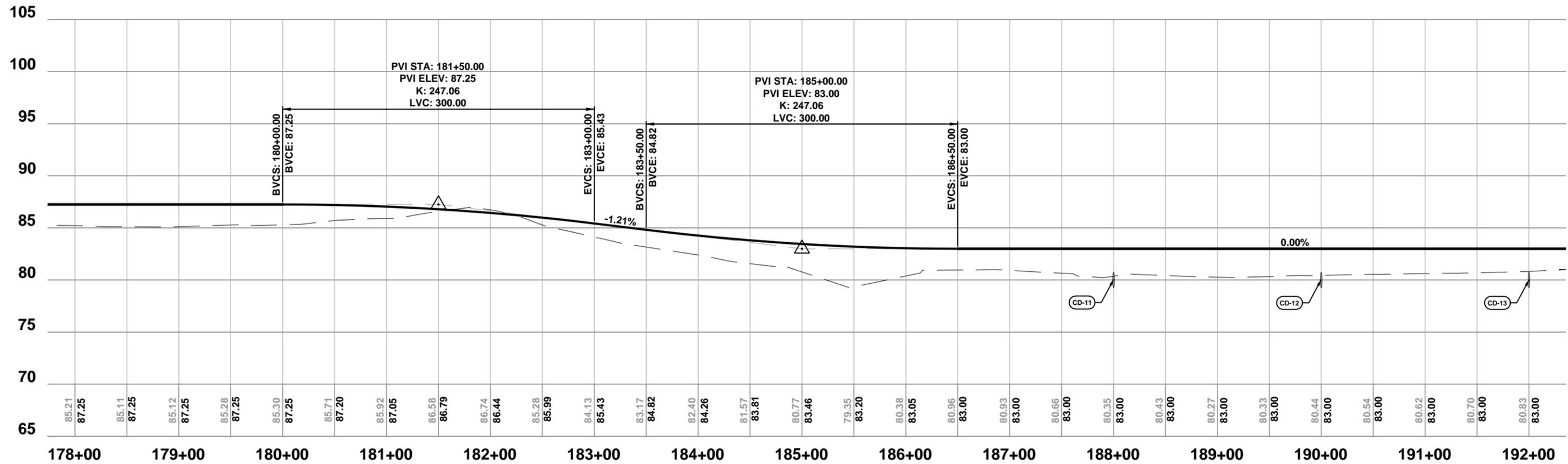
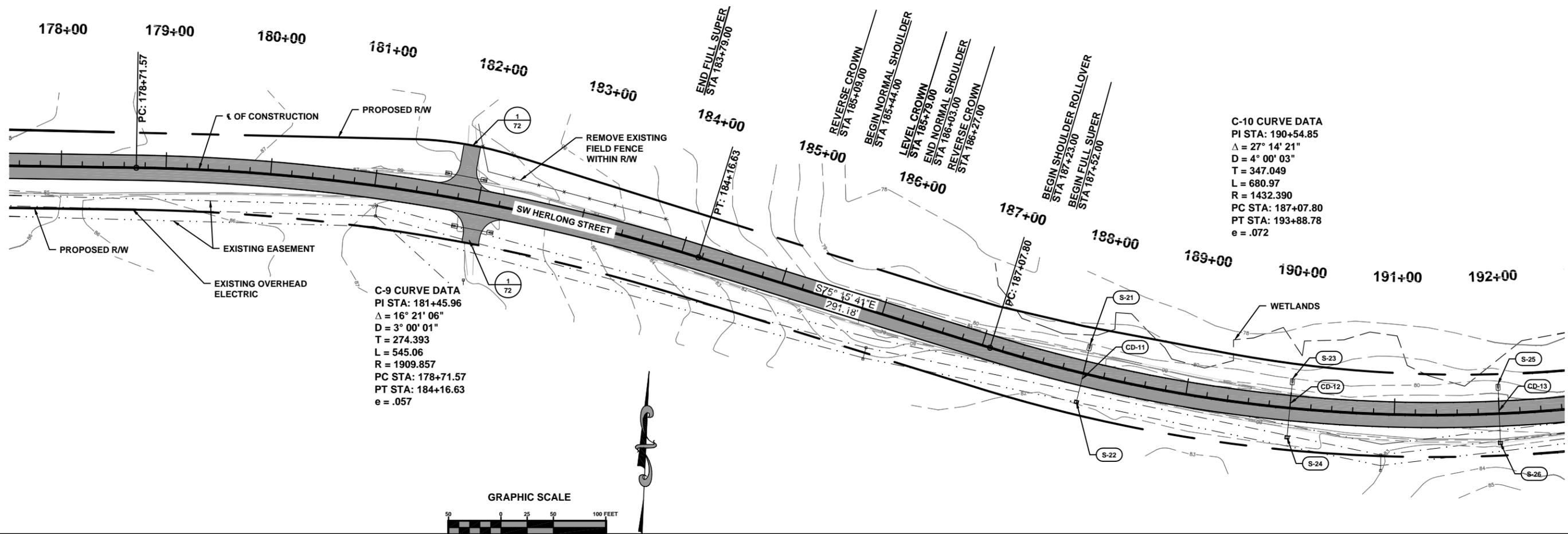
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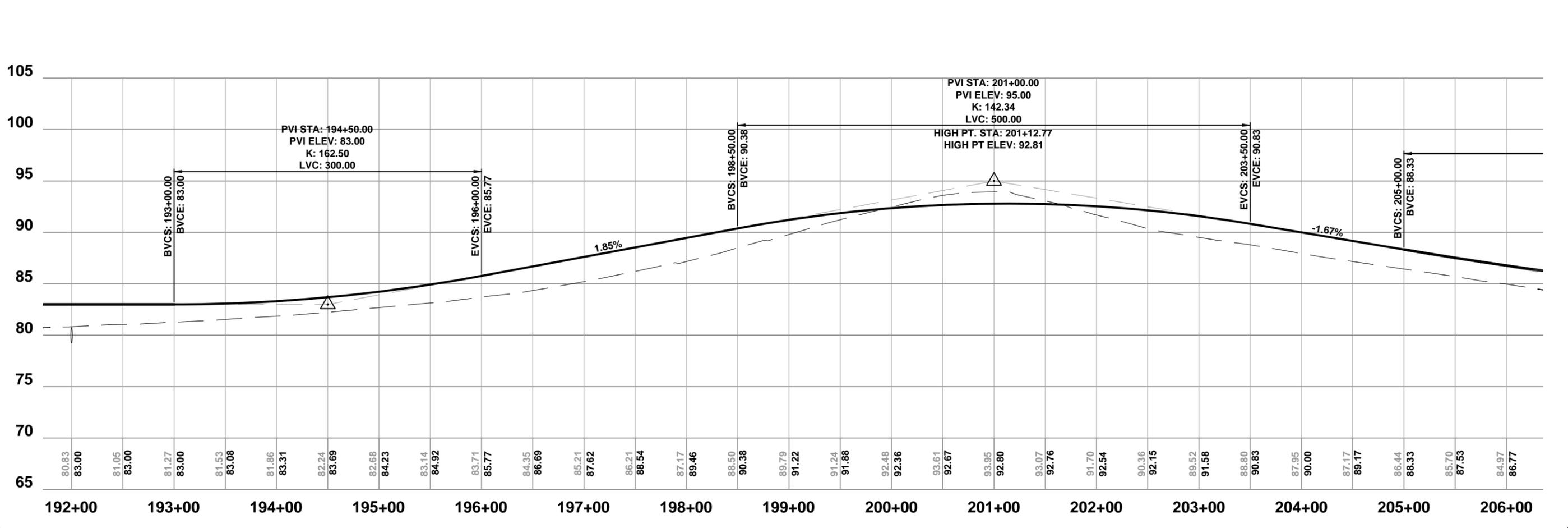
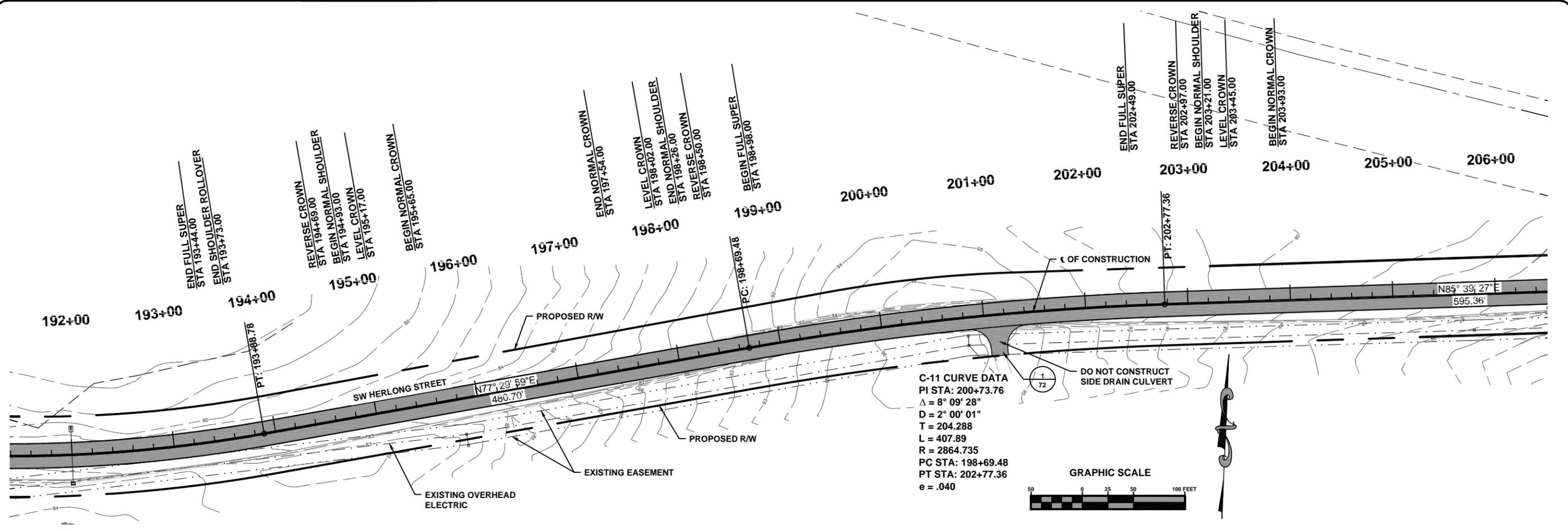


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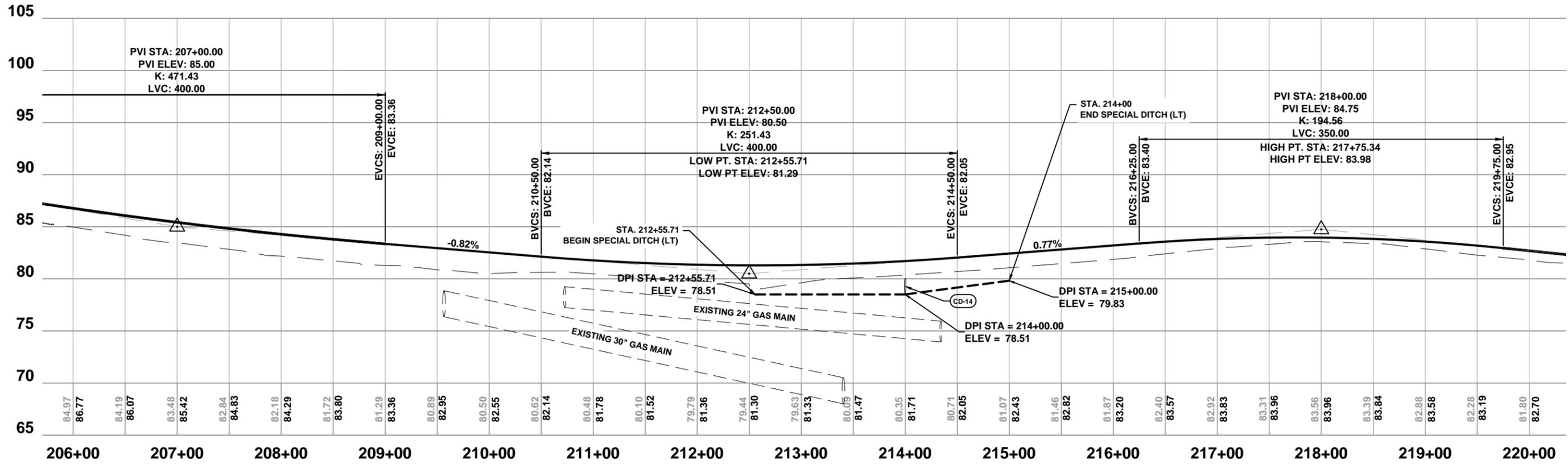
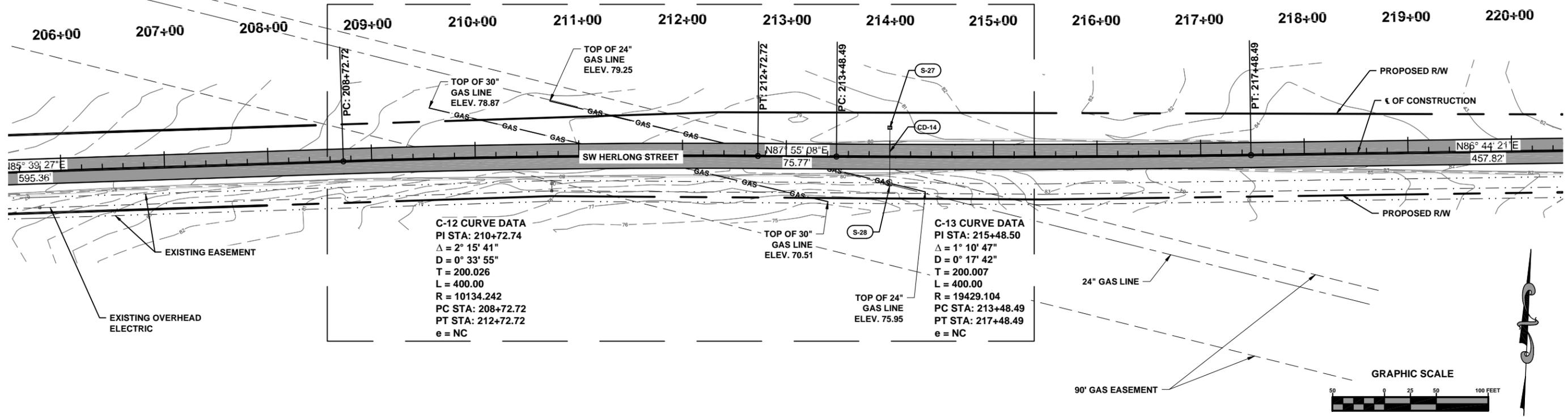
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**LOCATE AND PROTECT THE  
GAS LINE LOCATIONS STA ± 210+05 TO STA ± 215+40  
FLORIDA GAS TRANSMISSION CO.  
CONTACT JOSEPH SANCHEZ (407) 838-7171**



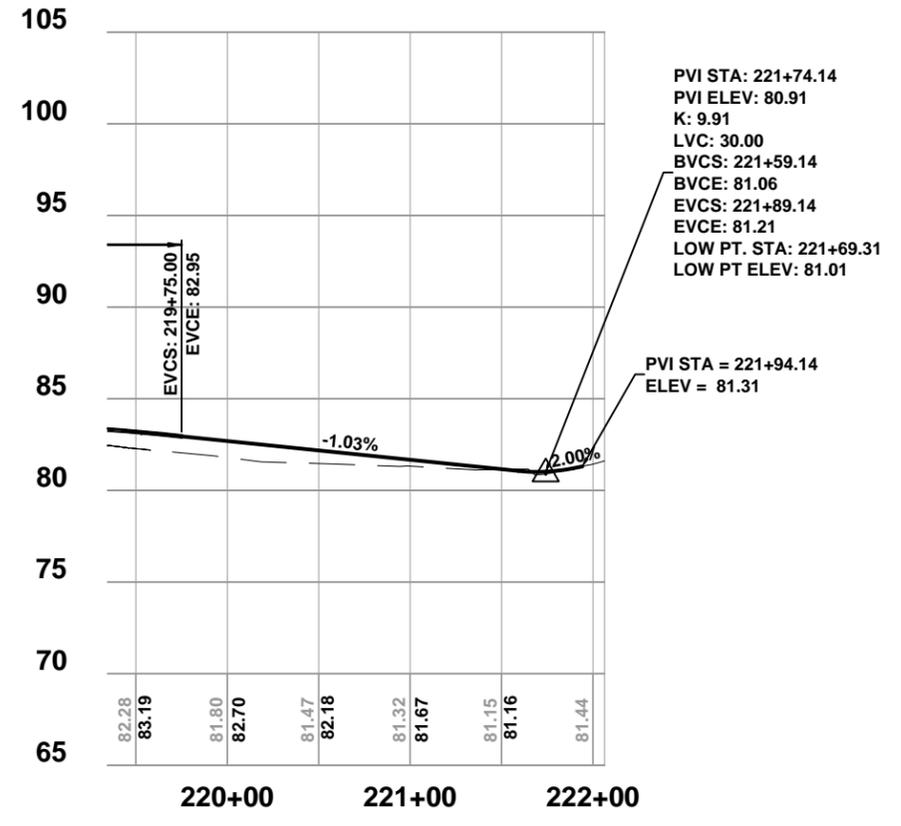
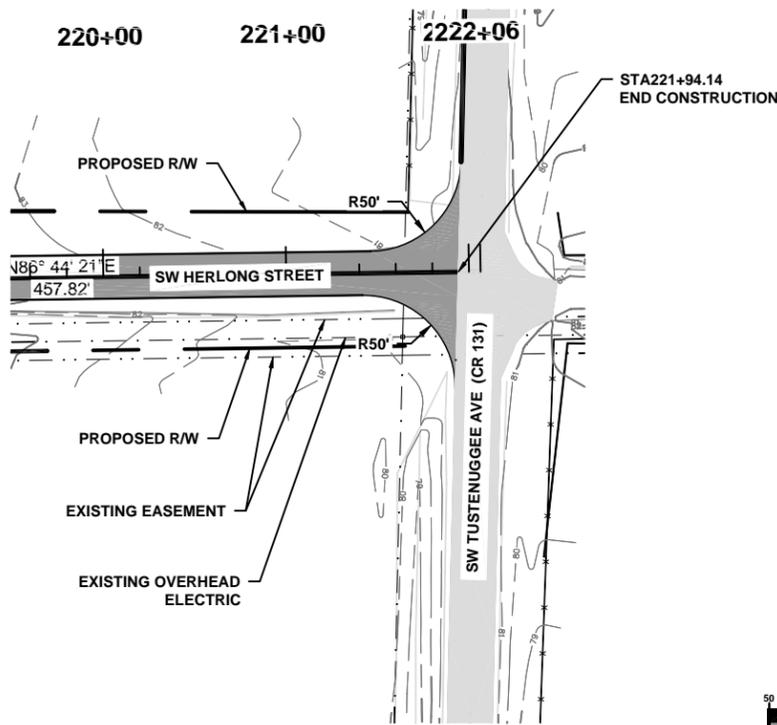
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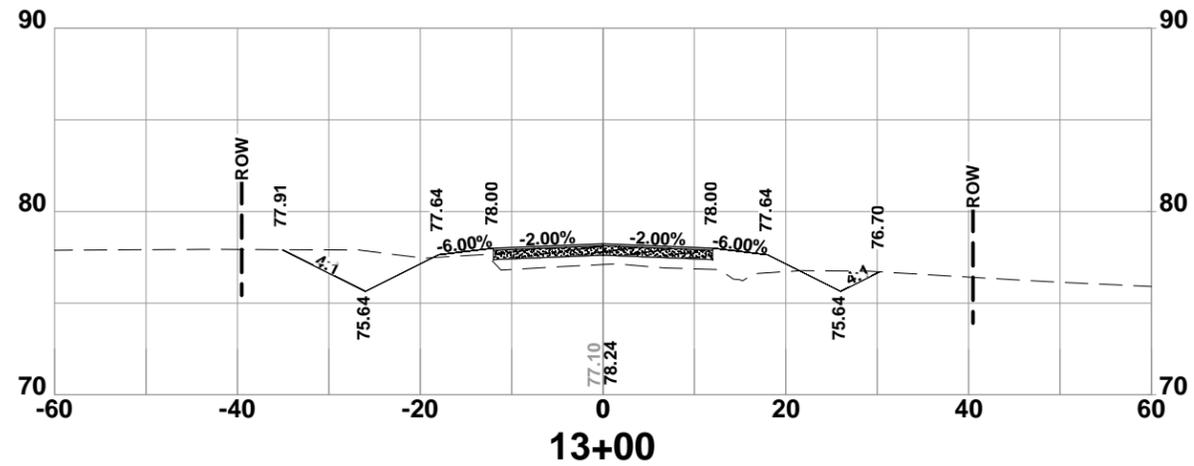
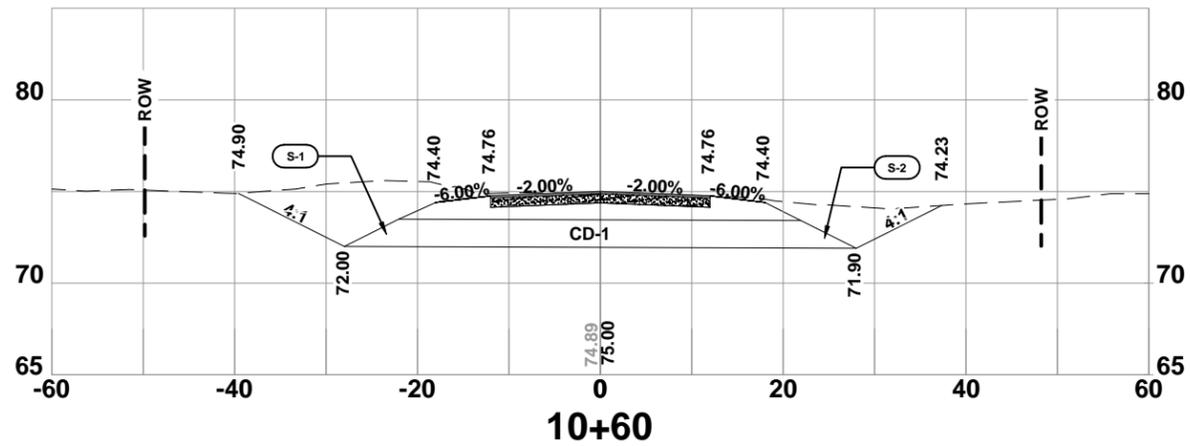
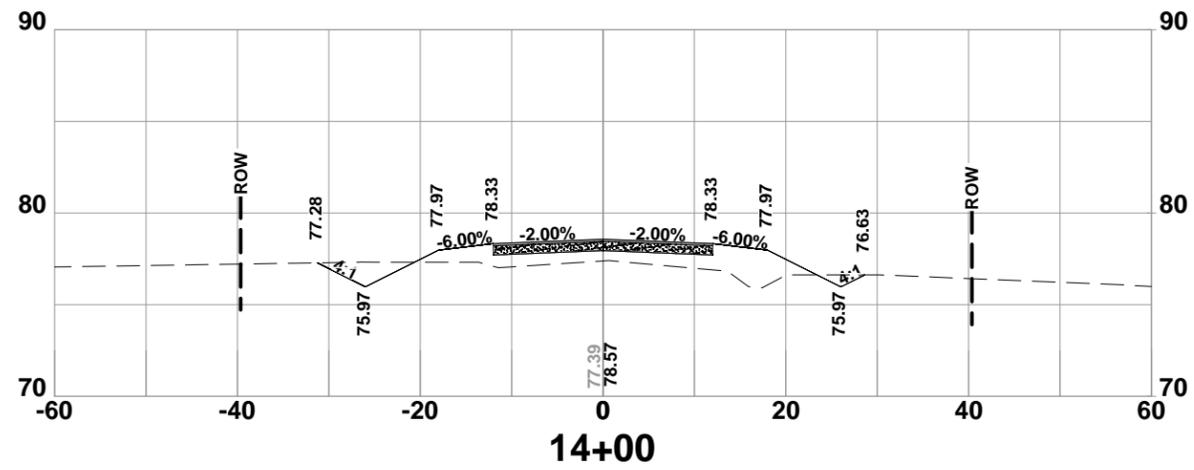
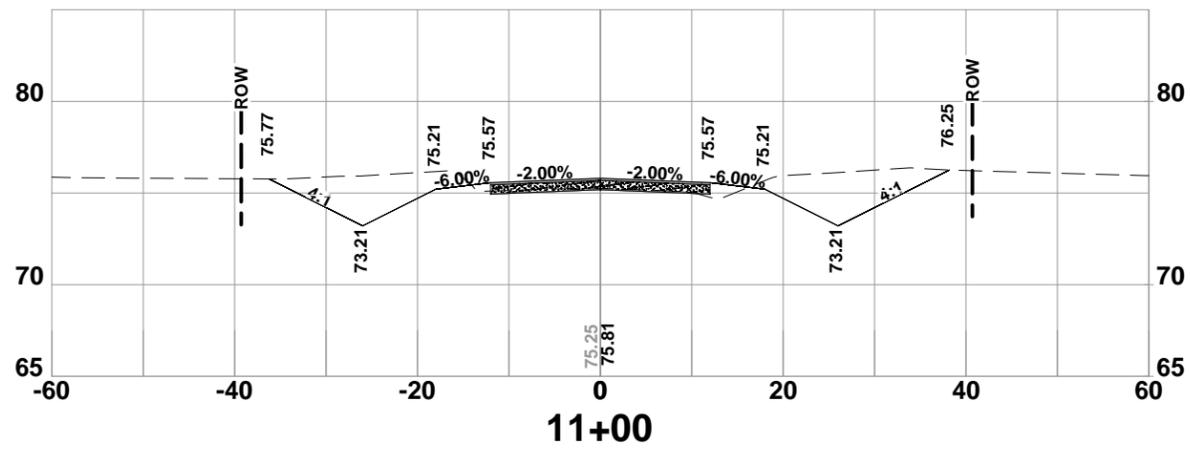
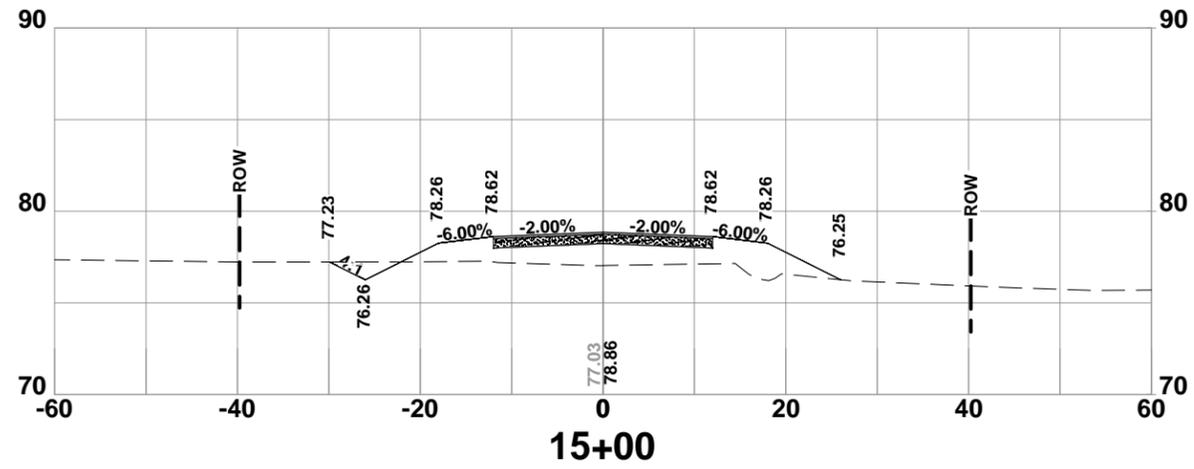
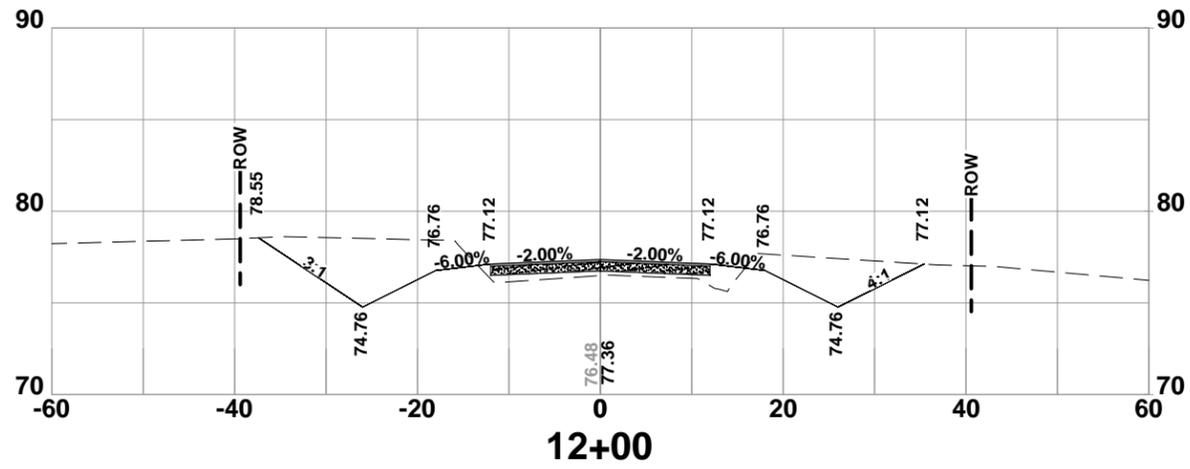
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 Date Last Saved: February 17, 2015  
 Date Plotted: February 18, 2015



**PLAN / PROFILE**  
 SW HERLONG STREET  
 COLUMBIA COUNTY, FLORIDA

REVISIONS:

DESIGNED BY:	GB
DRAFTED BY:	RD
CHECKED BY:	GB
SIGNATURE & SEAL	
DATE:	11/24/08
SHEET NO.:	19

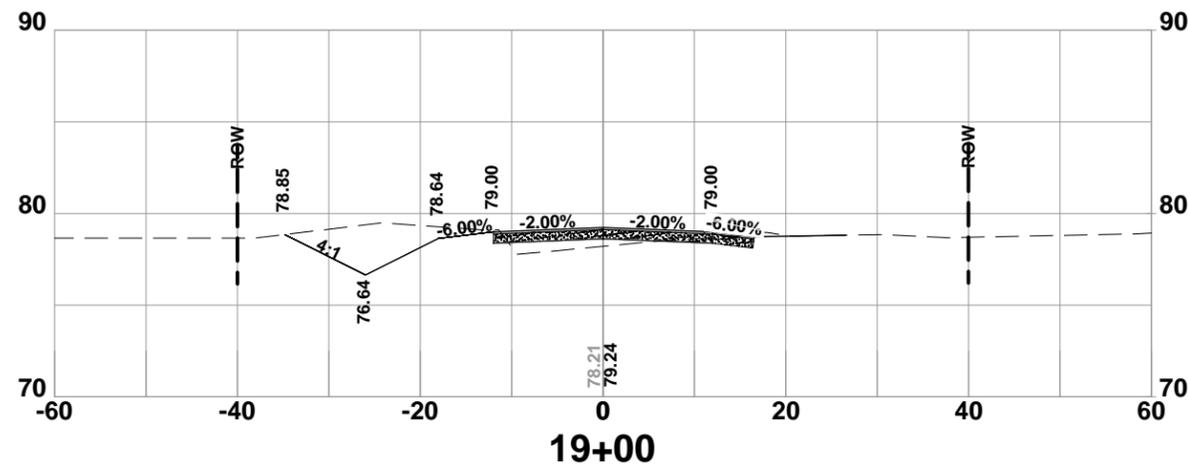
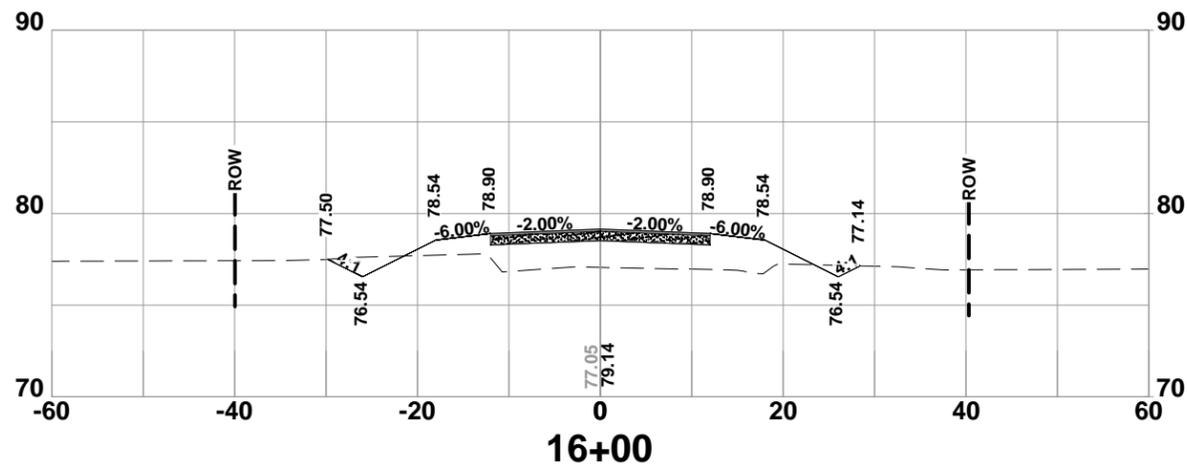
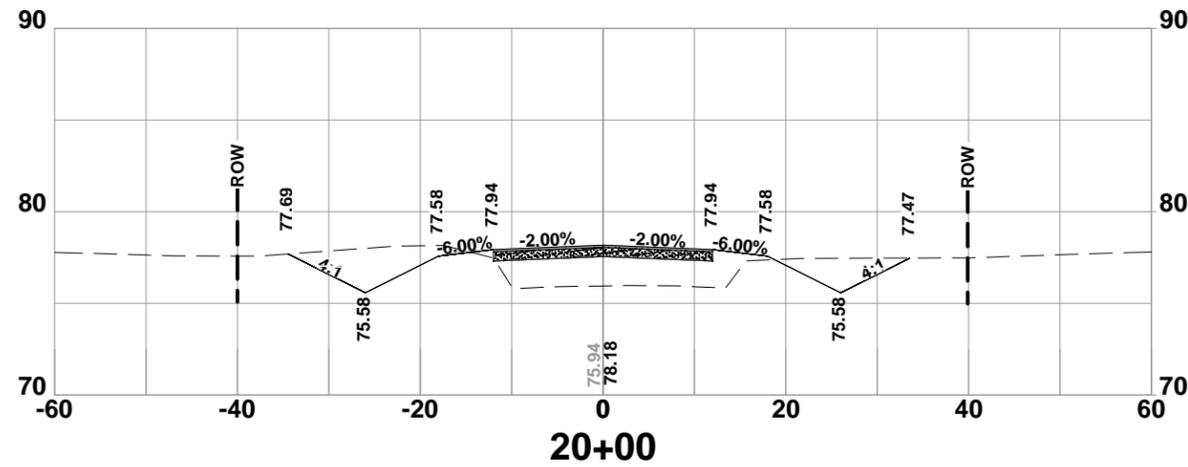
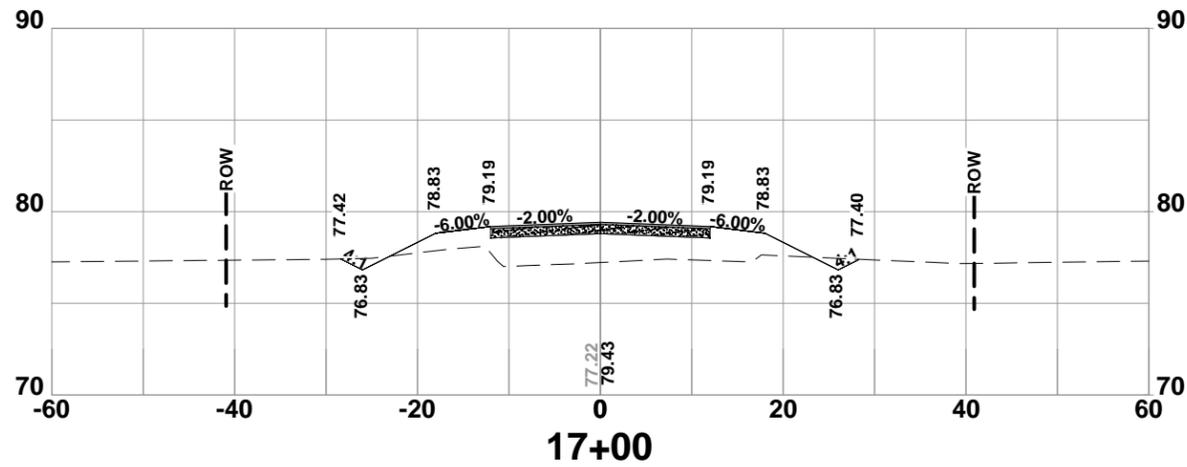
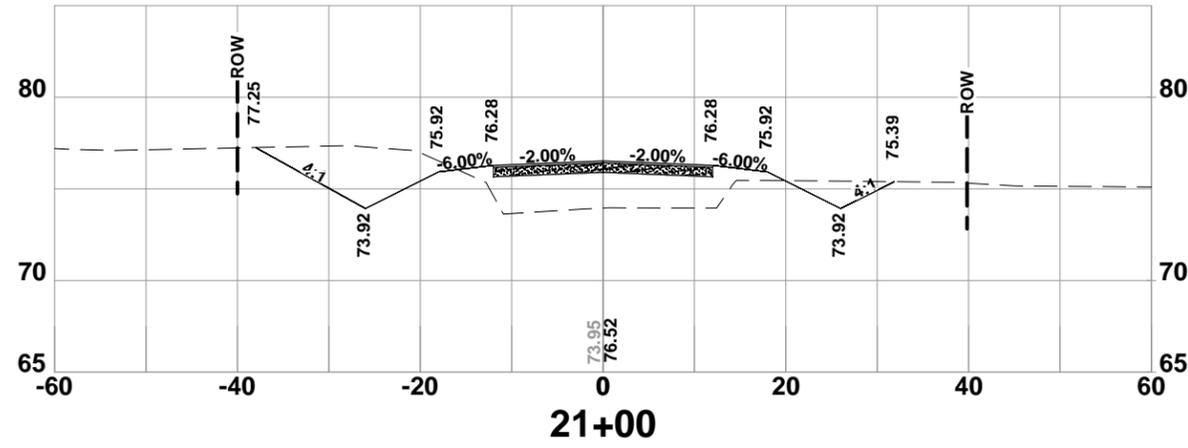
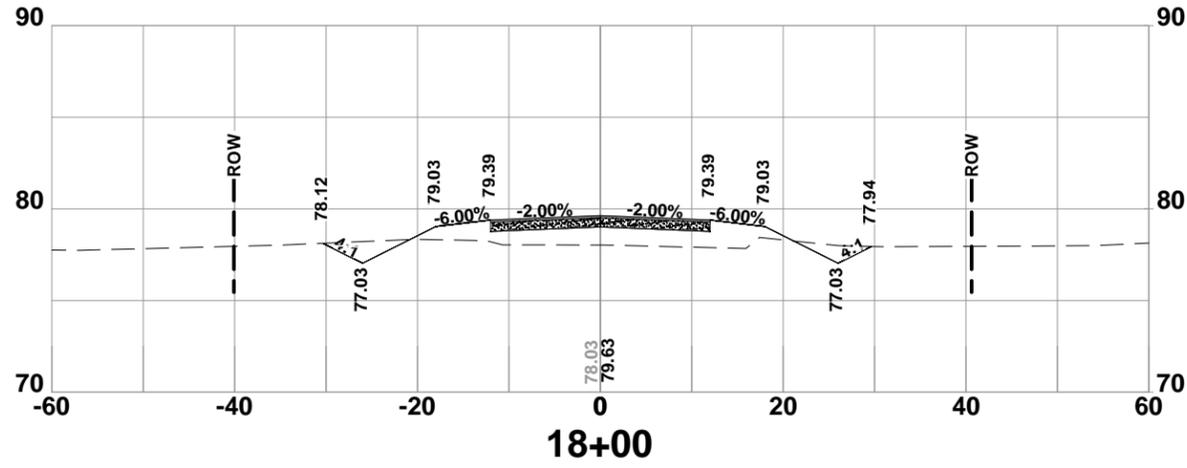


**CROSS SECTIONS**  
 SW HERLONG ST  
 COLUMBIA COUNTY, FLORIDA

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DATE	JOB NUMBER	DESIGNED BY	DRAFTED BY	CHECKED BY
11/24/08	L140602CCB	GB	RD	GB

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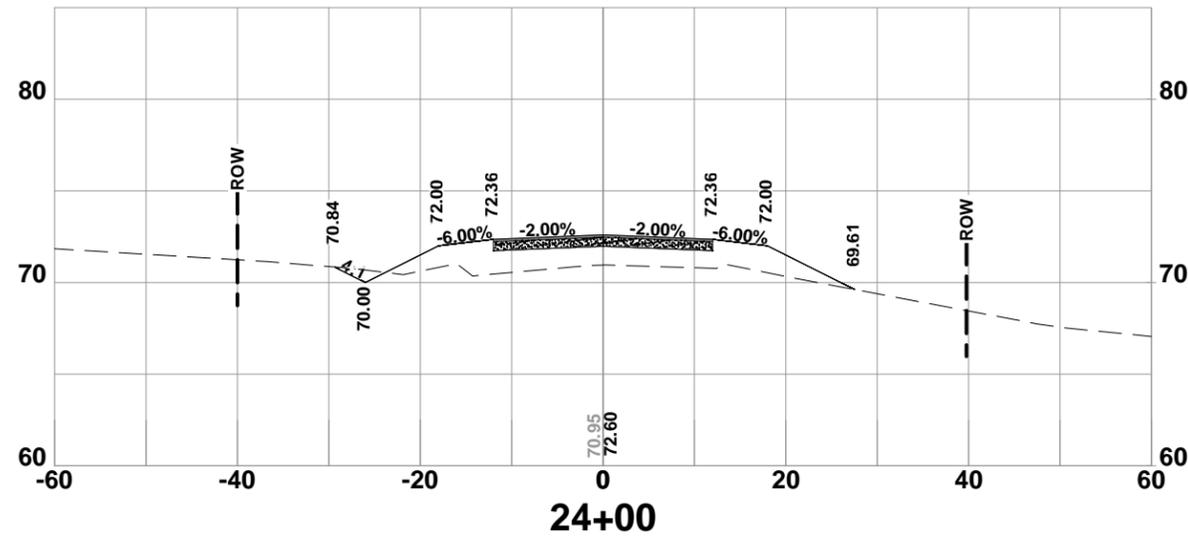
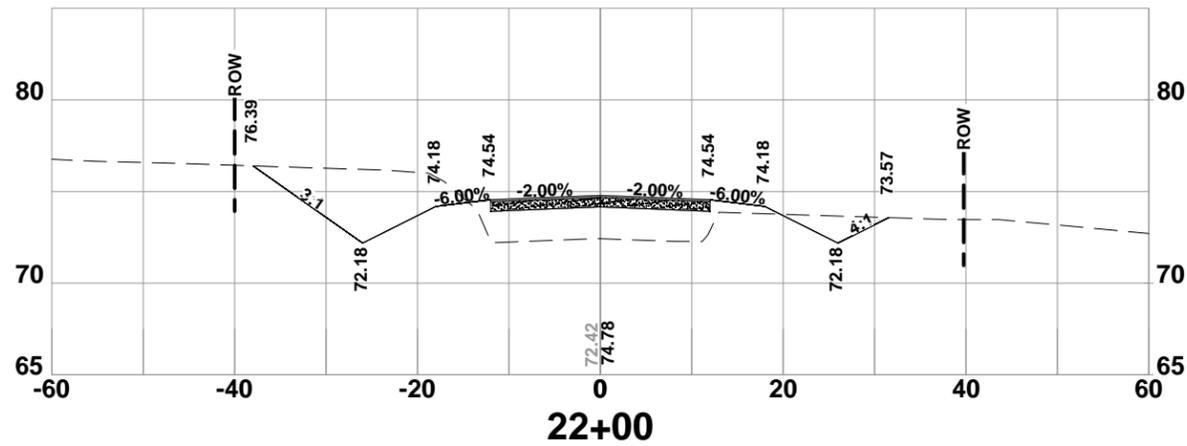
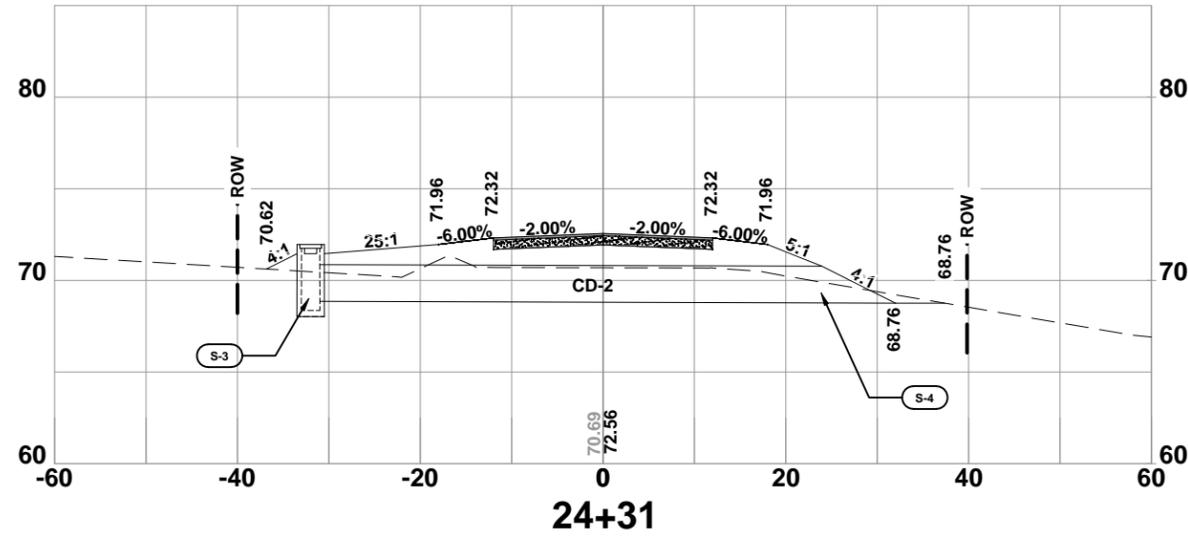
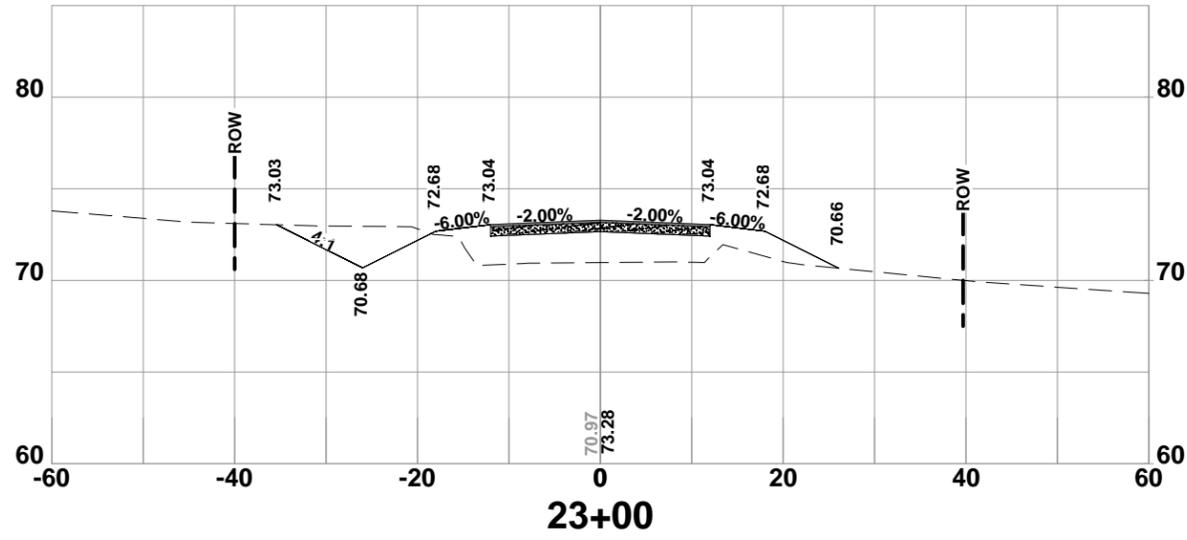


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 SW HERLONG ST  
 COLUMBIA COUNTY, FLORIDA

REVISIONS:

DATE	BY	REVISION
11/24/08	GB	DESIGNED BY
	RD	DRAFTED BY
	GB	CHECKED BY
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JOB NUMBER: L140602CCB  
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DESIGNED BY:	GB
DRAFTED BY:	RD
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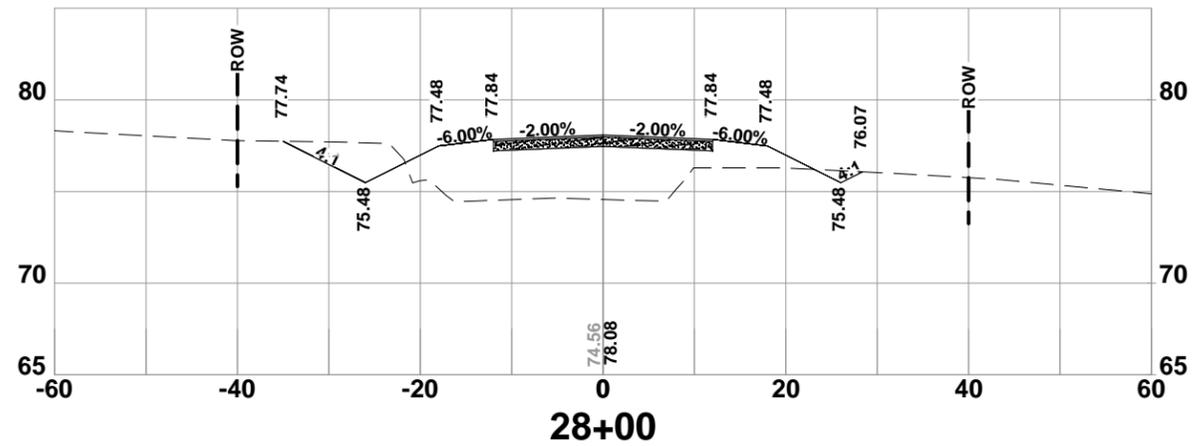
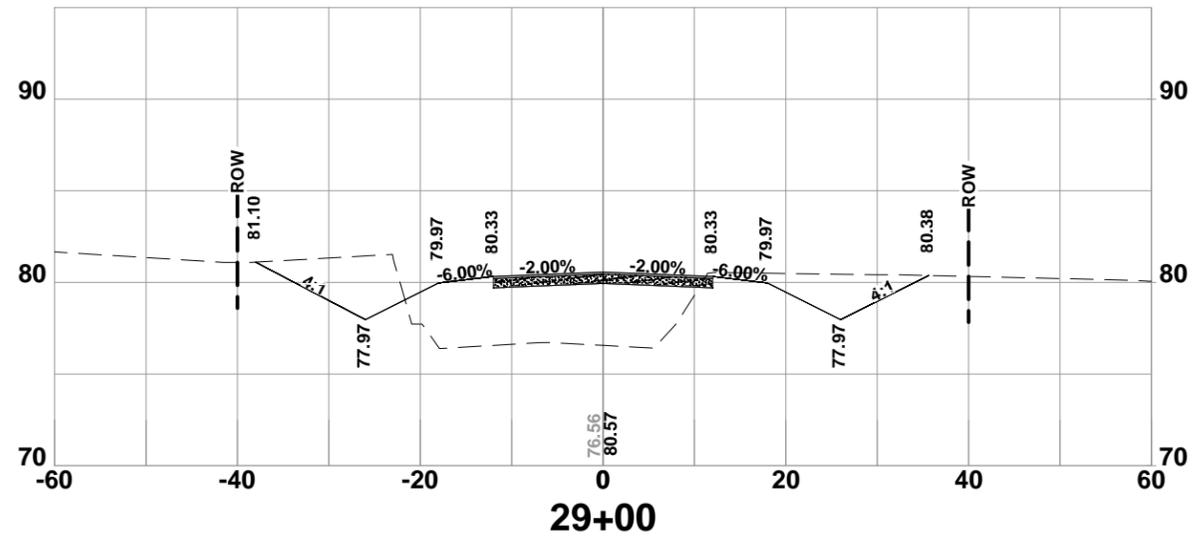
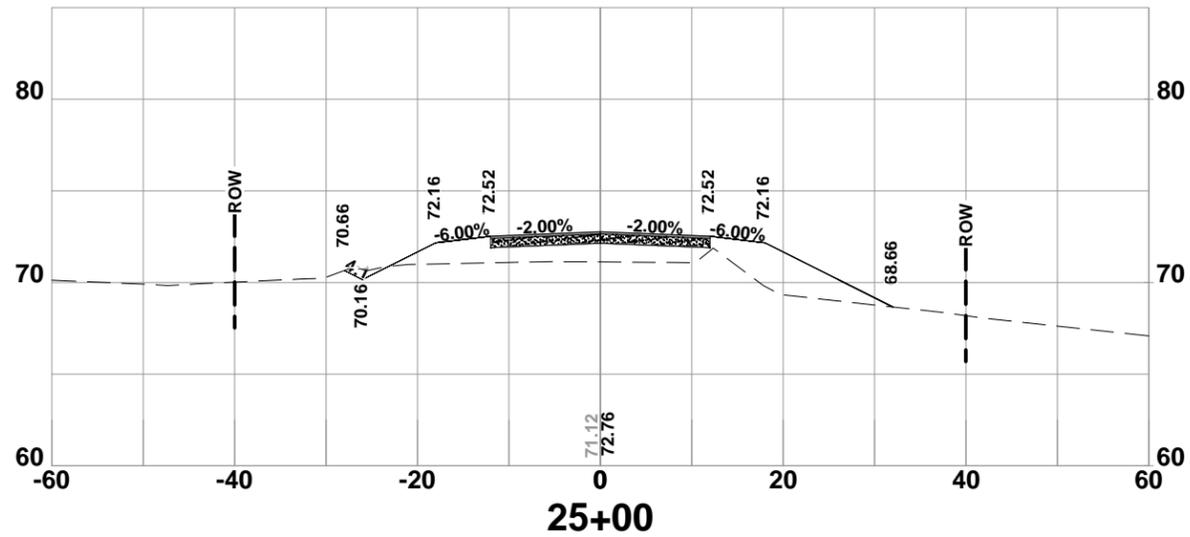
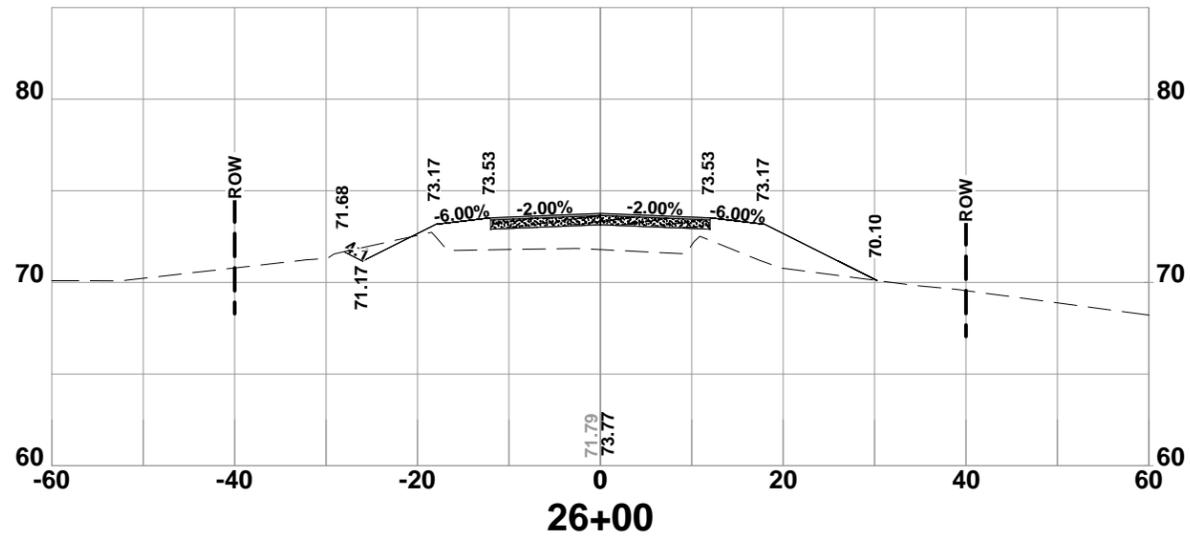
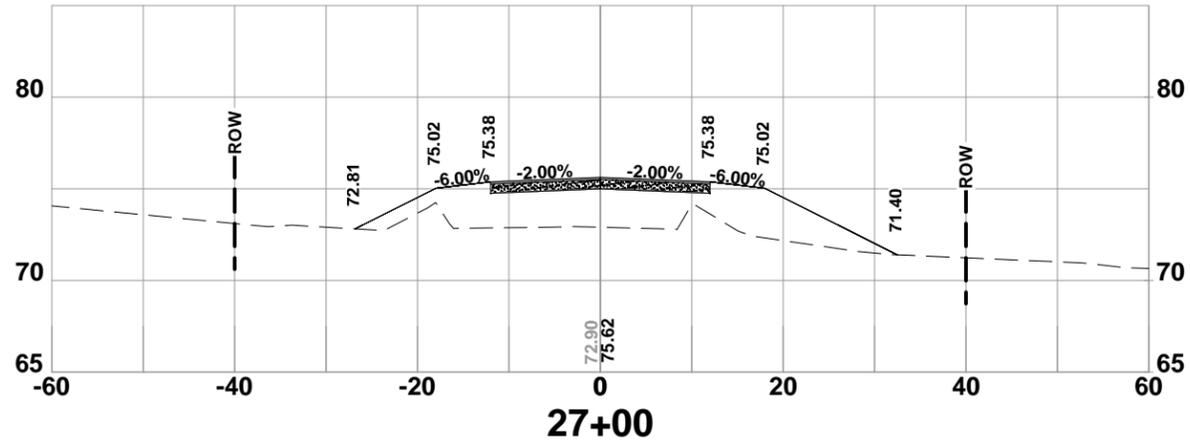
DATE: 11/24/08  
SHEET NO. 22

**CROSS SECTIONS**  
SW HERLONG ST  
COLUMBIA COUNTY, FLORIDA



North Florida Professional Services, Inc.  
P.O. BOX 3823  
Lake City, FL 32025  
Ph. 386-752-4675  
Fax. 386-752-4674

P.O. BOX 180998  
Tallahassee, FL 32318  
Ph. 877-335-1525  
Eng. Lic. 29011

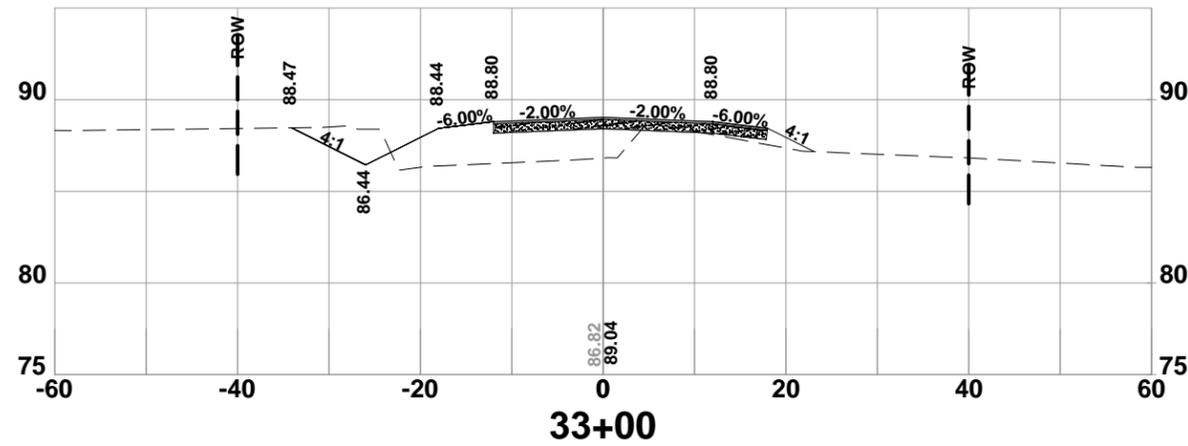
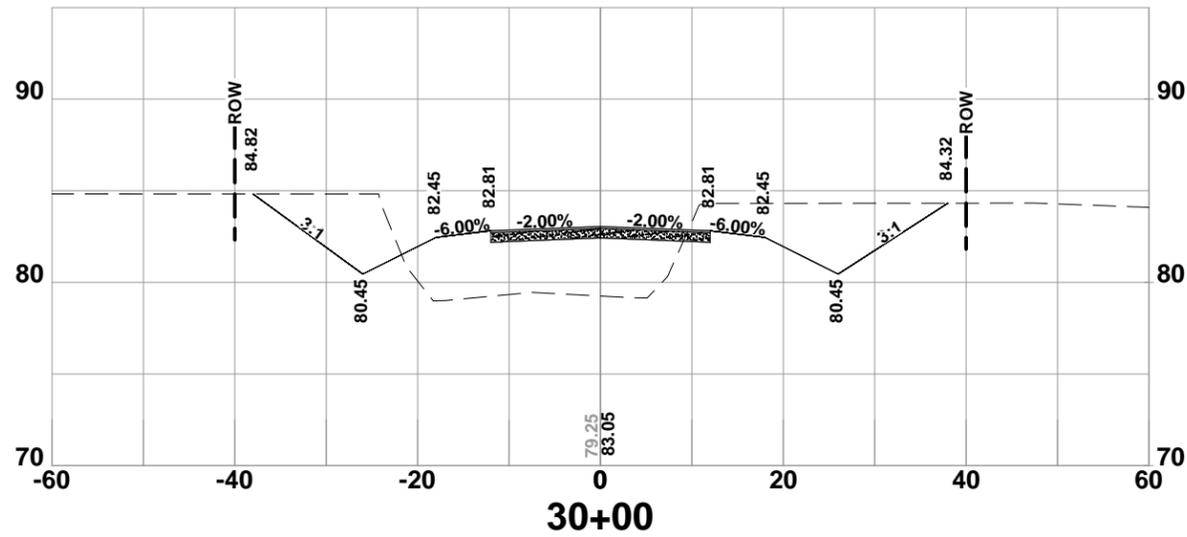
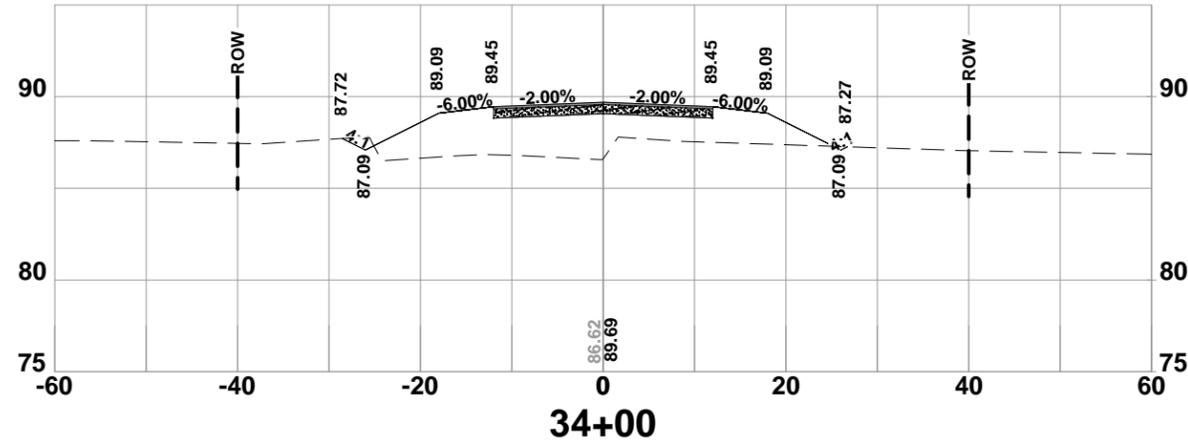
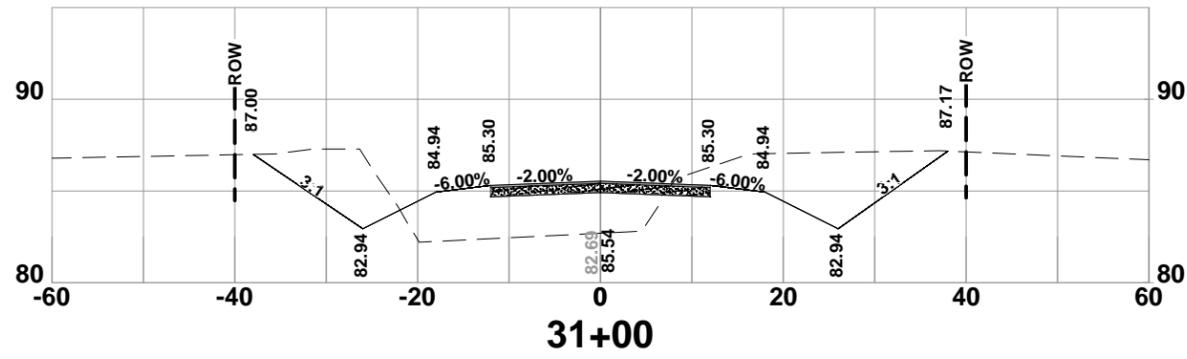
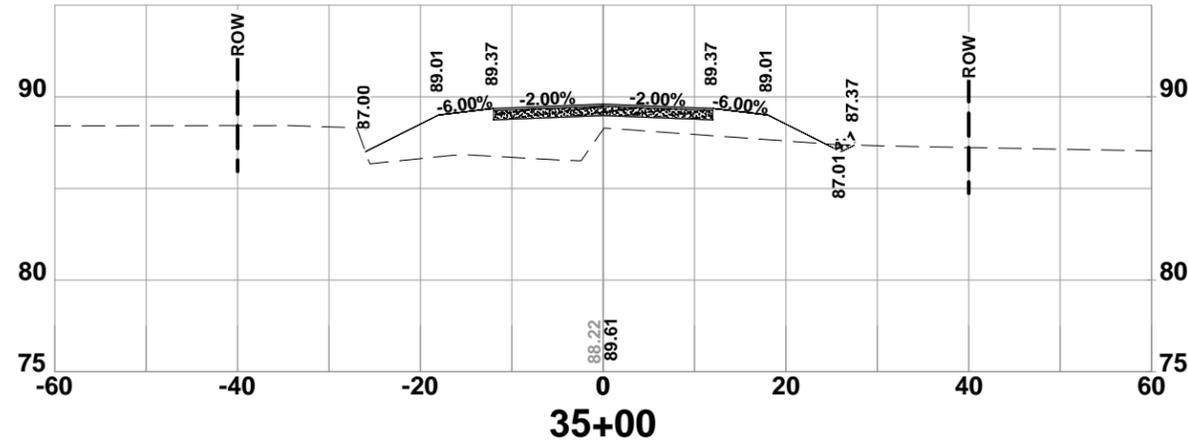
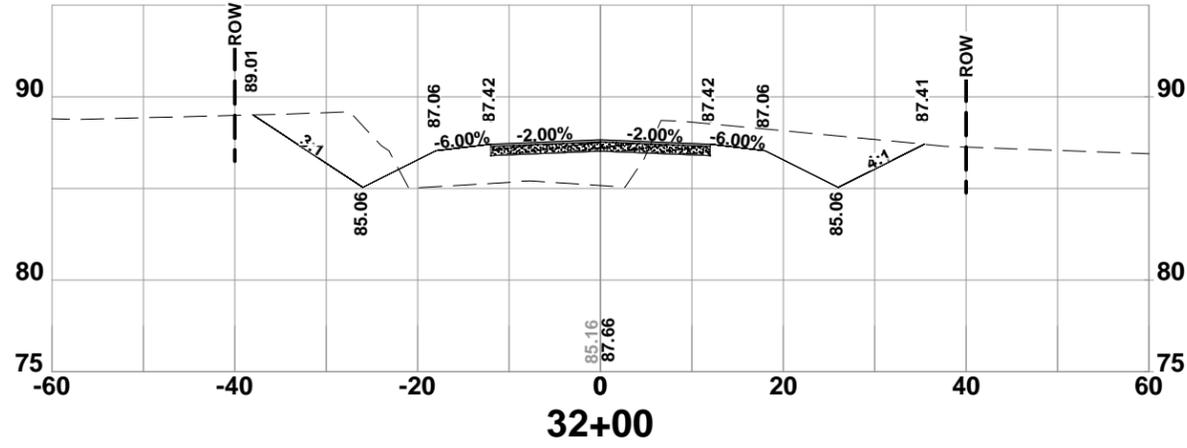


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 SW HERLONG ST  
 COLUMBIA COUNTY, FLORIDA

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2		RD	GB

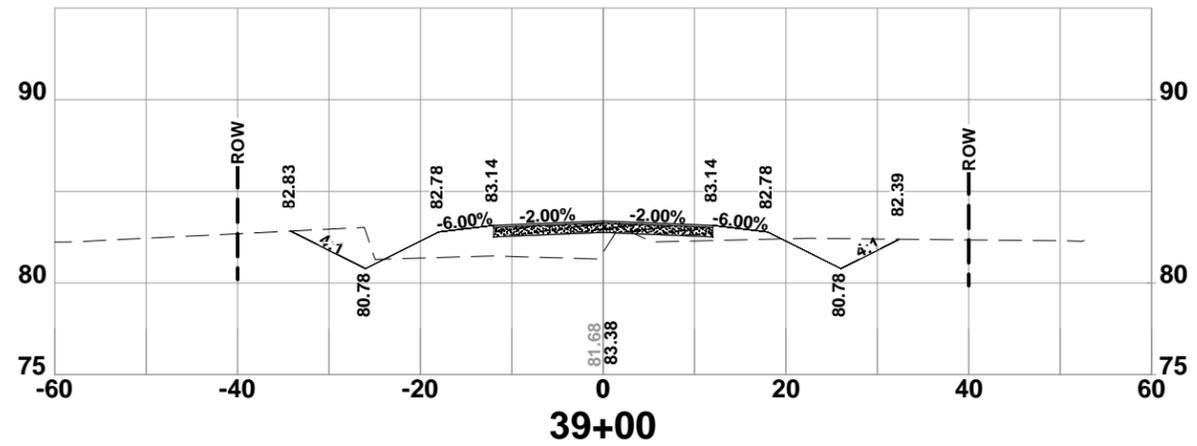
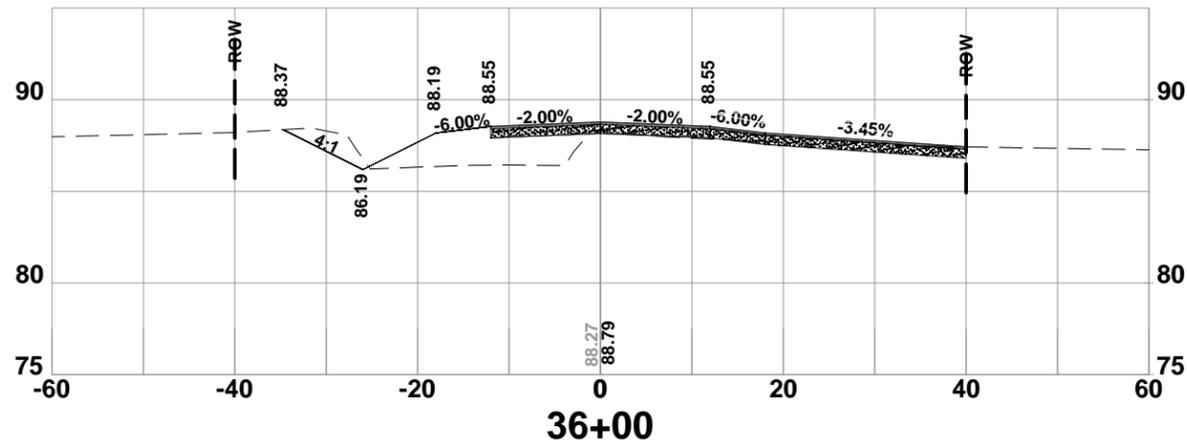
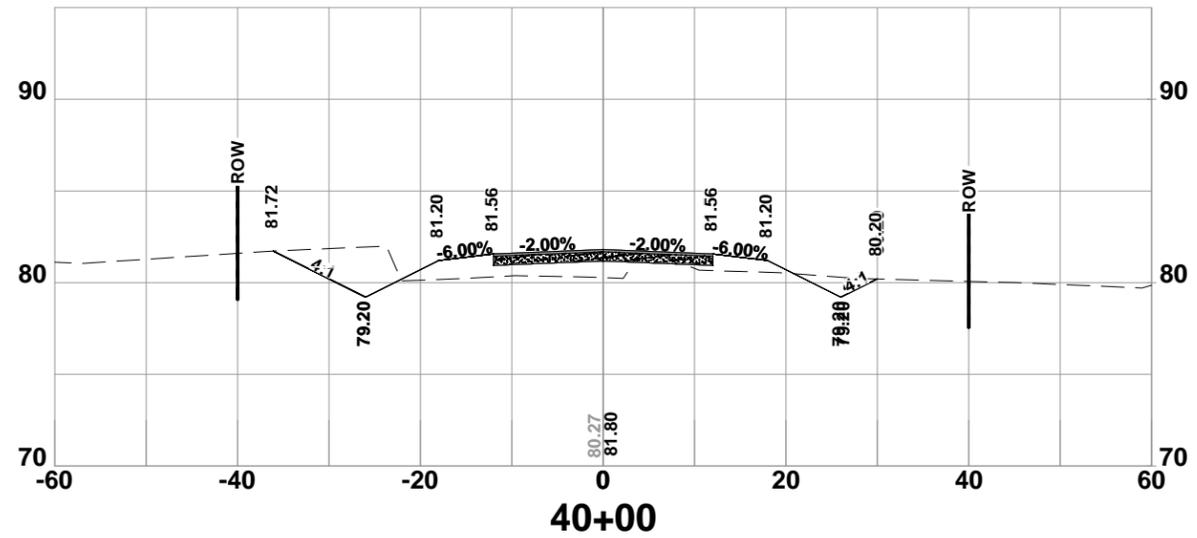
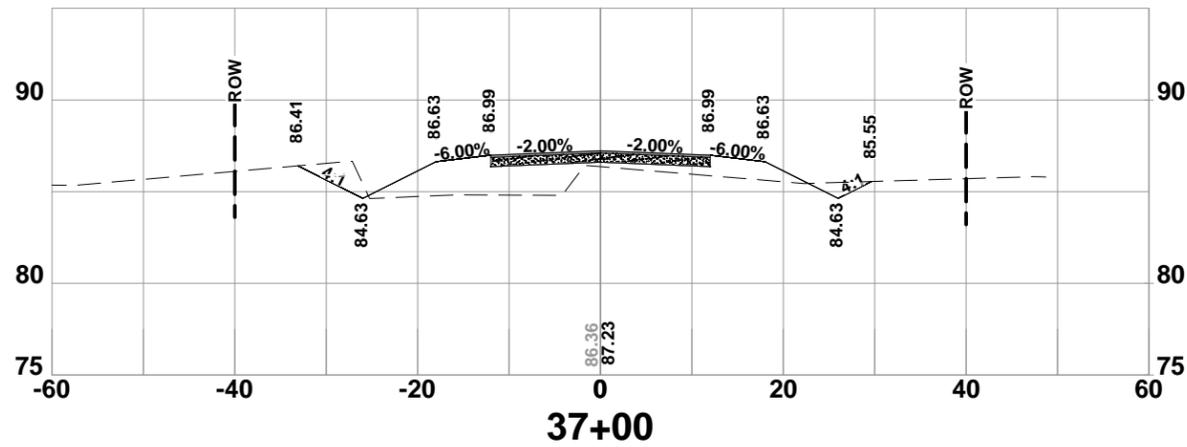
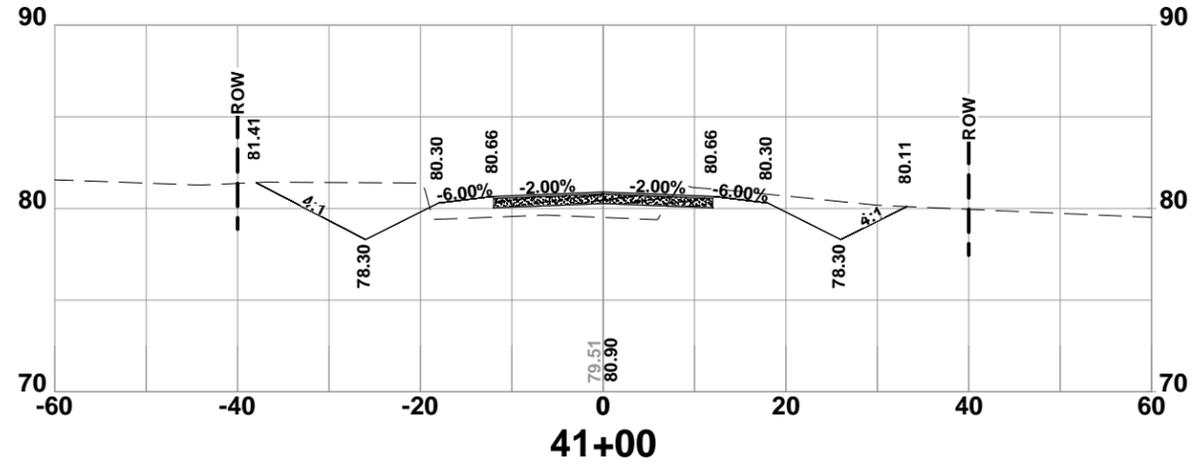
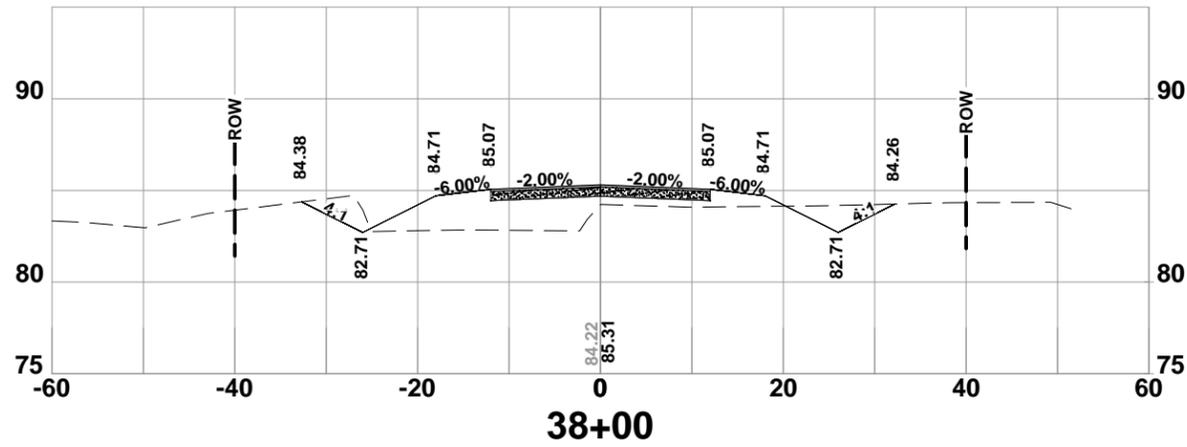
DATE: 11/24/08  
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 SW HERLONG ST  
 COLUMBIA COUNTY, FLORIDA

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JOB NUMBER:	L140602CCB
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 P.O. BOX 3823  
 Tallahassee, FL 32318  
 Lake City, FL 32025  
 Ph. 877-335-1525  
 Fax. 386-752-4674  
 Eng. Lic. 29011

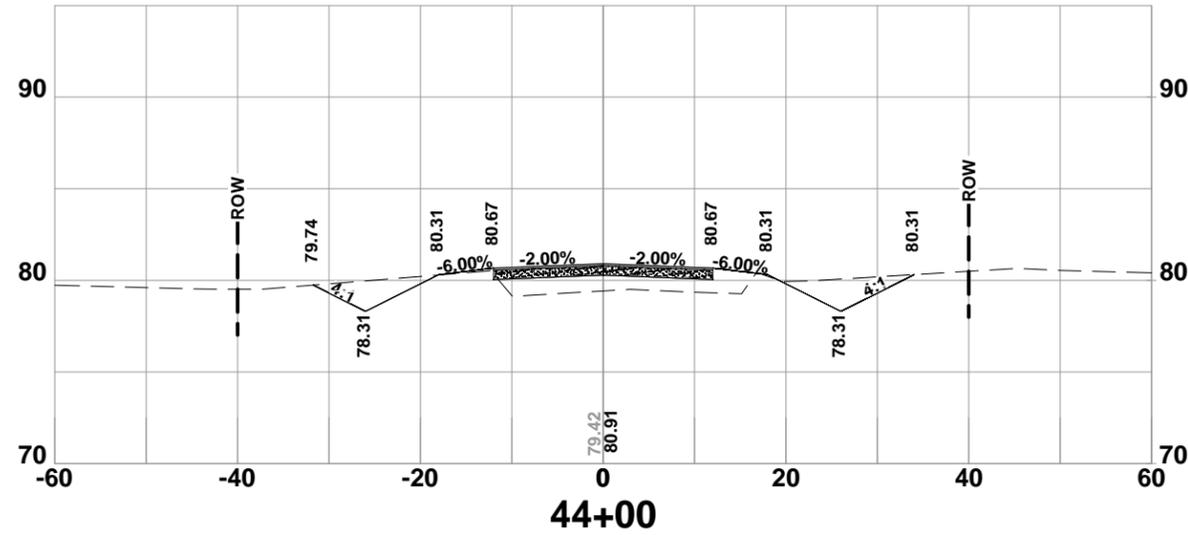
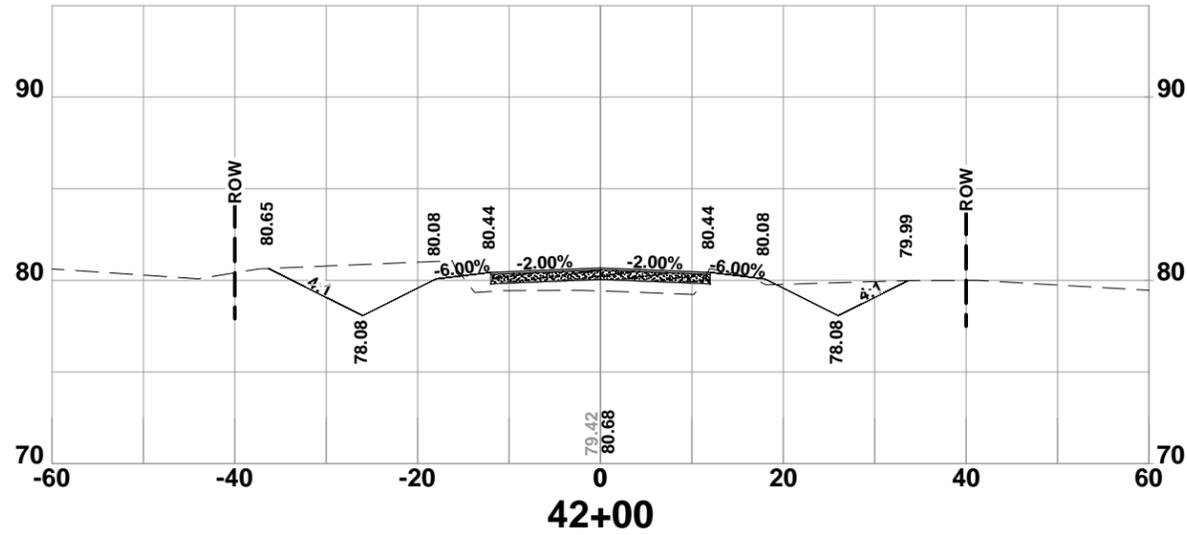
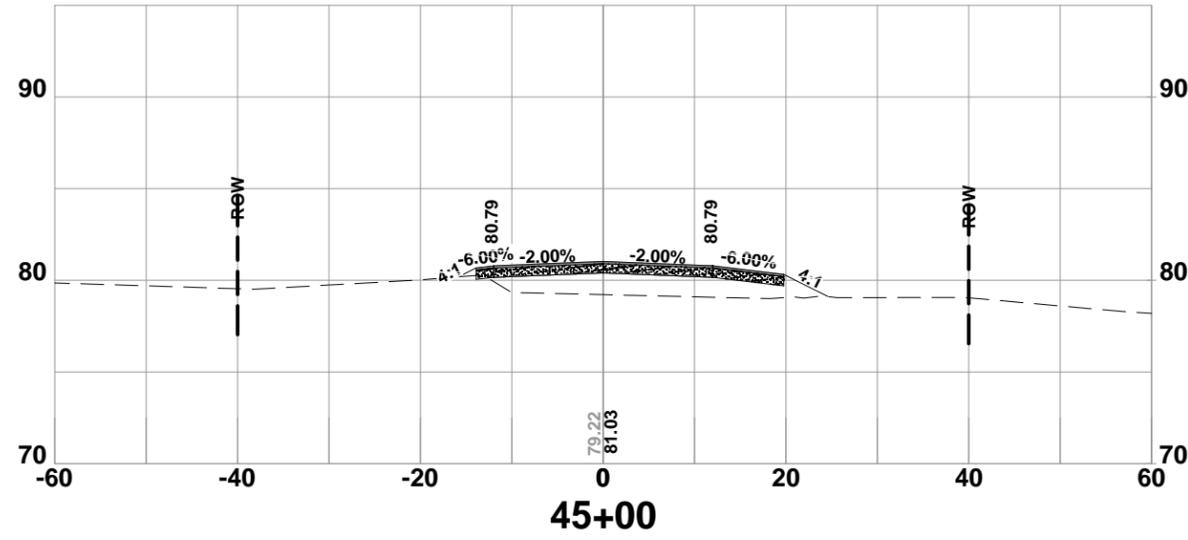
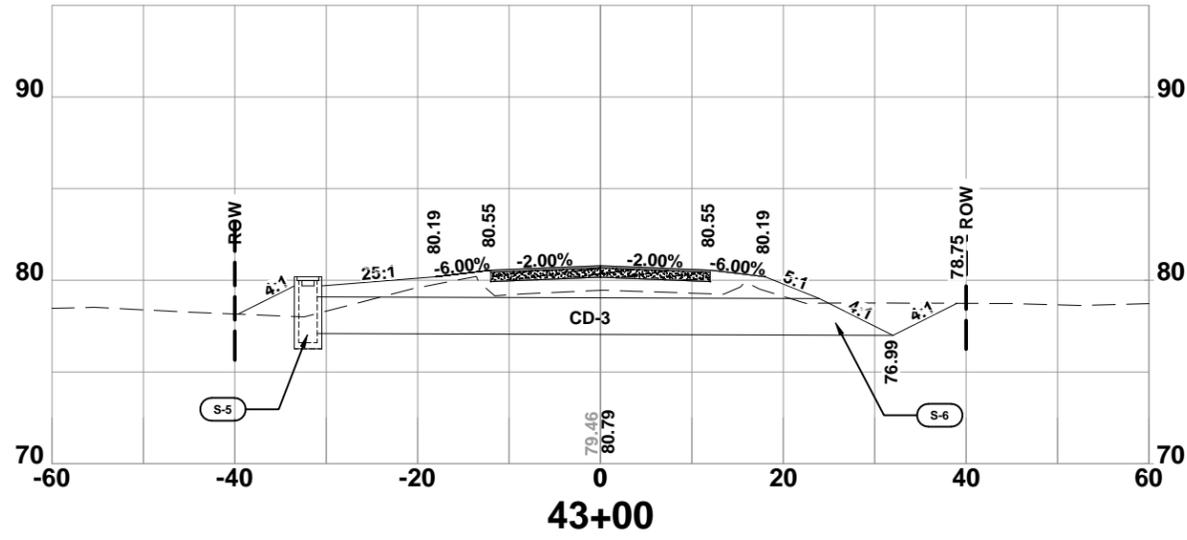
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 SW HERLONG ST  
 COLUMBIA COUNTY, FLORIDA

REVISIONS:

NO.	DATE	BY	DESCRIPTION
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2		RD	DRAFTED BY
3		GB	CHECKED BY

SIGNATURE & SEAL

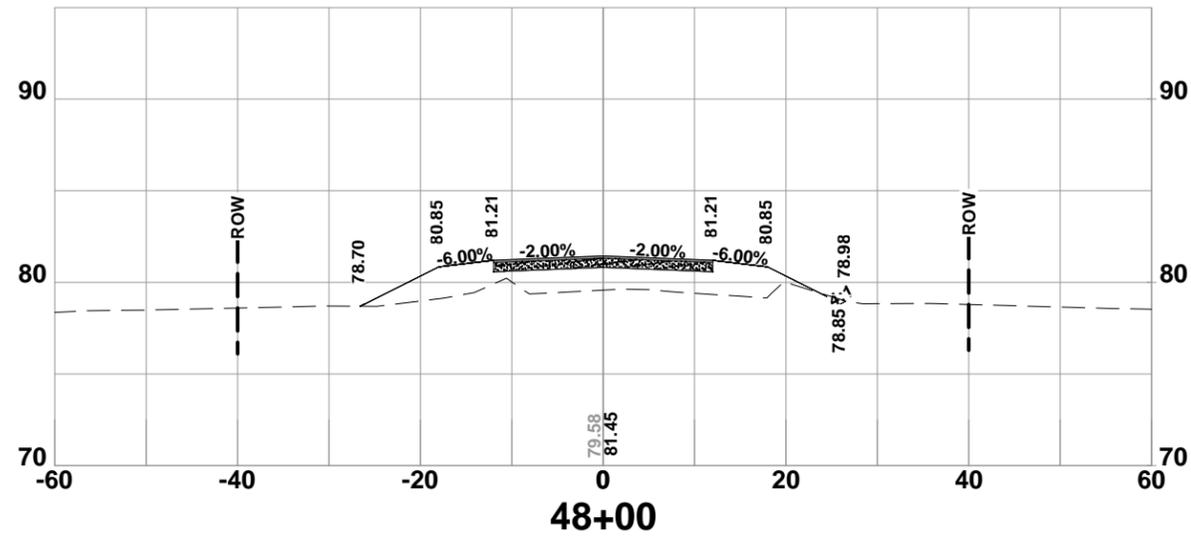
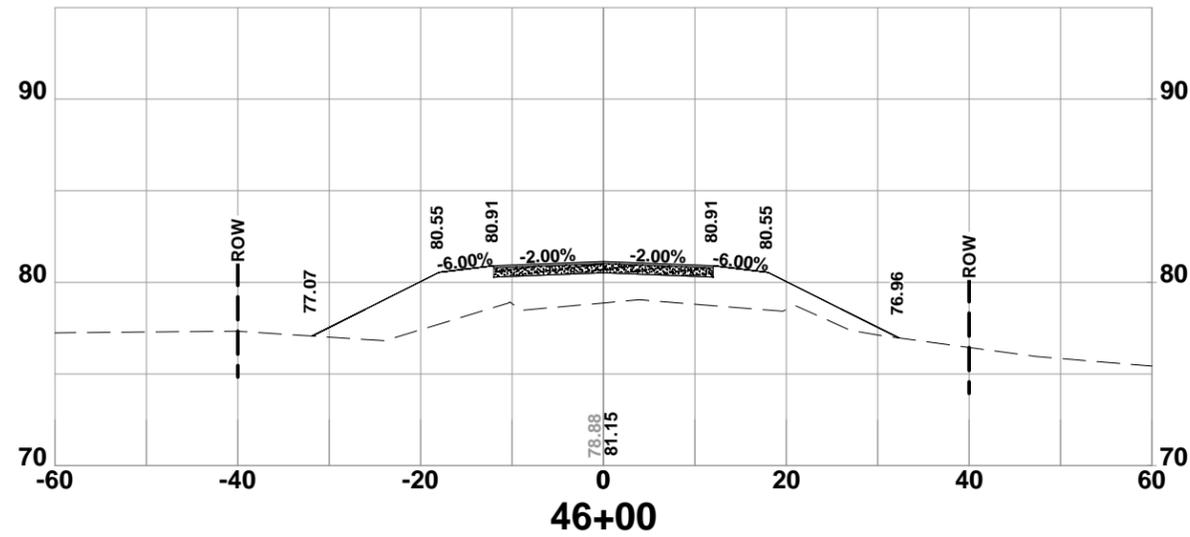
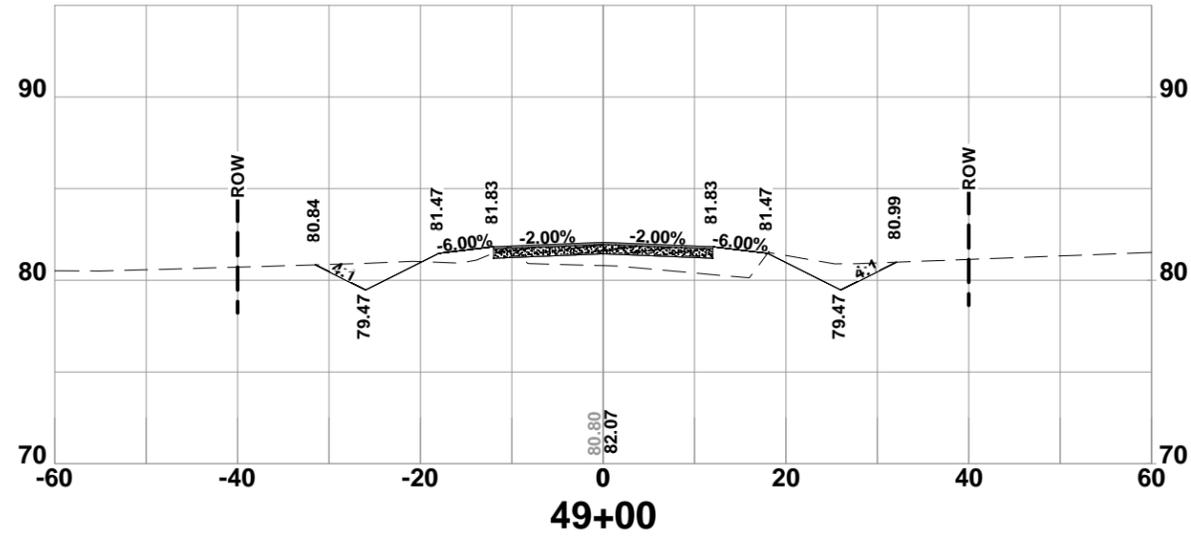
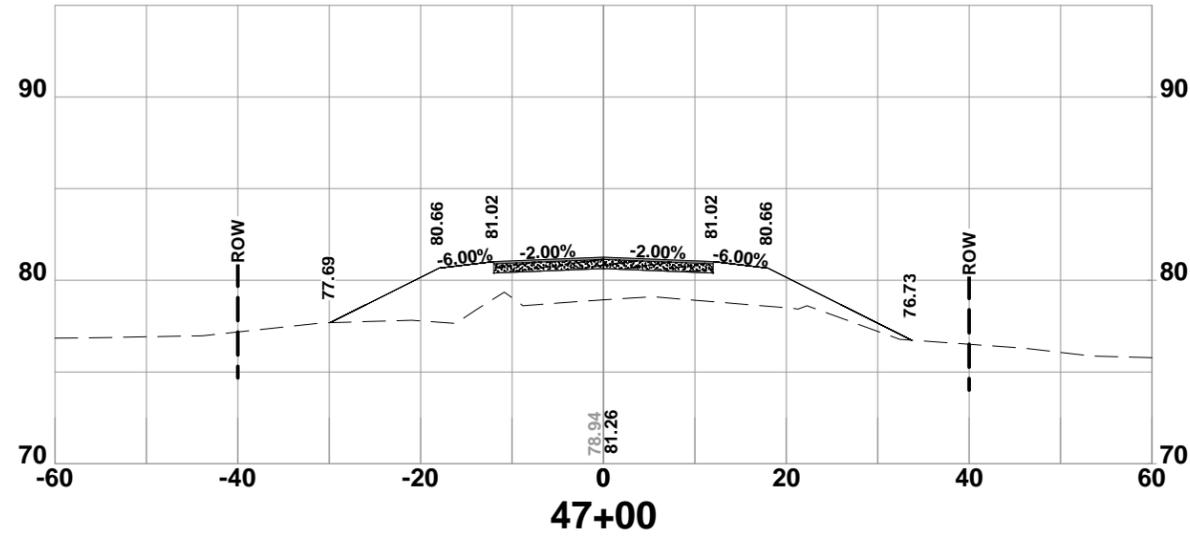
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**CROSS SECTIONS**  
 SW HERLONG ST  
 COLUMBIA COUNTY, FLORIDA

REVISIONS:

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JOB NUMBER:	L140602CCB
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DRAFTED BY:	RD
CHECKED BY:	GB
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SHEET NO. 26	

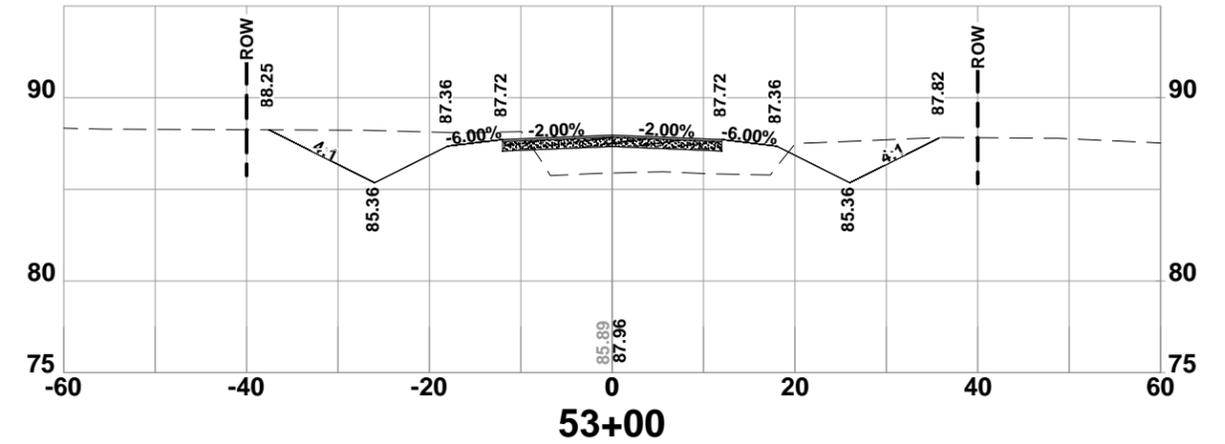
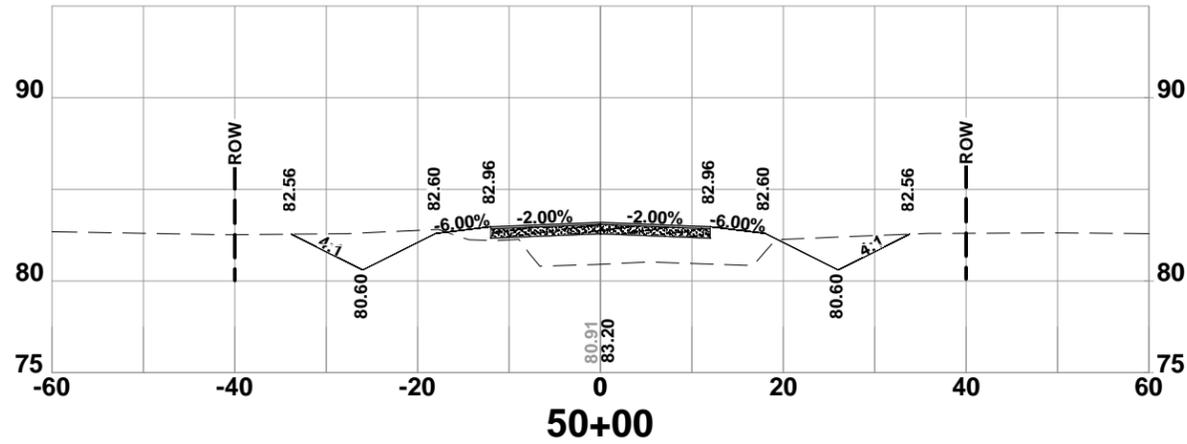
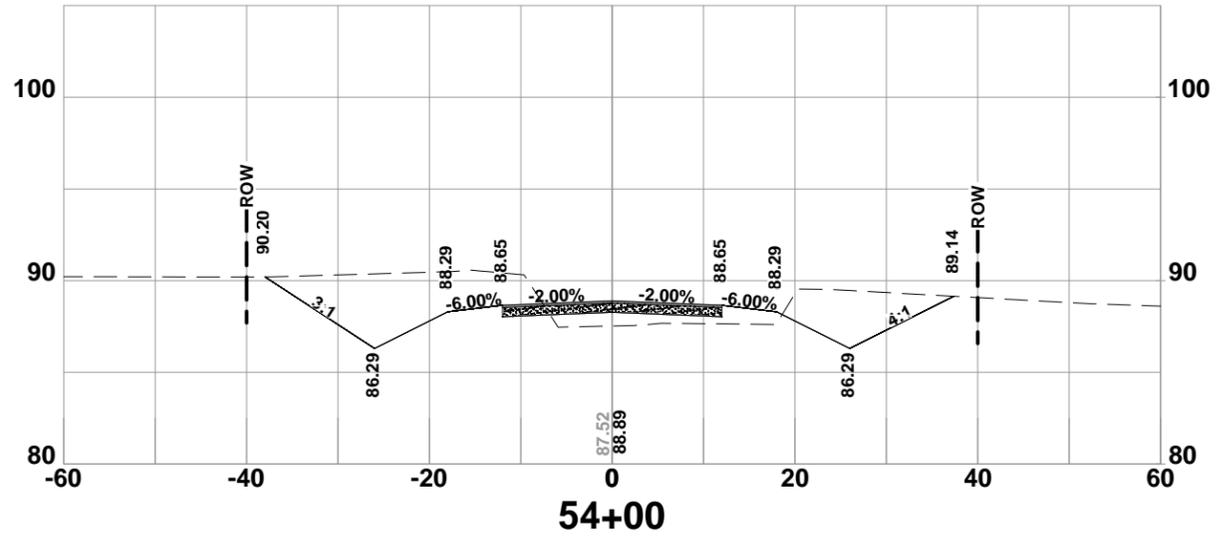
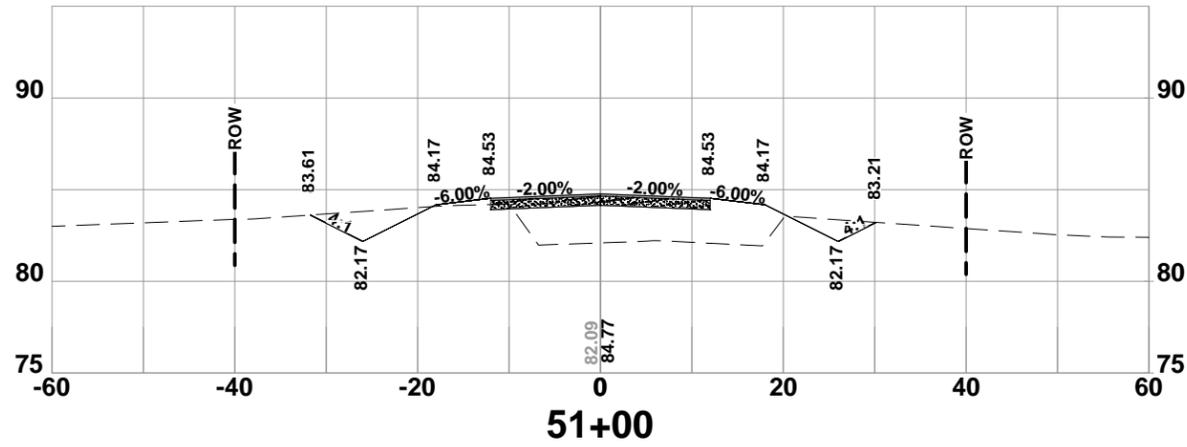
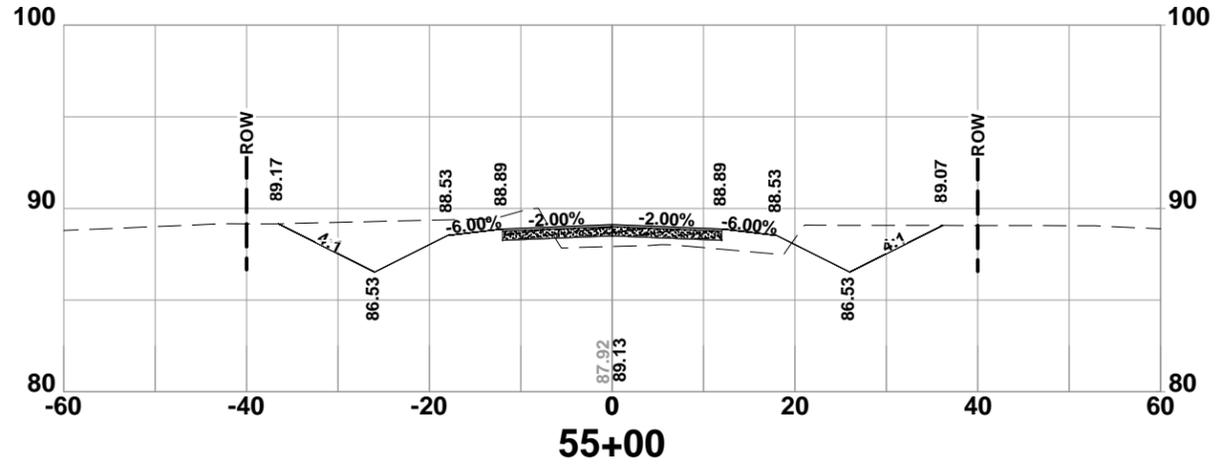
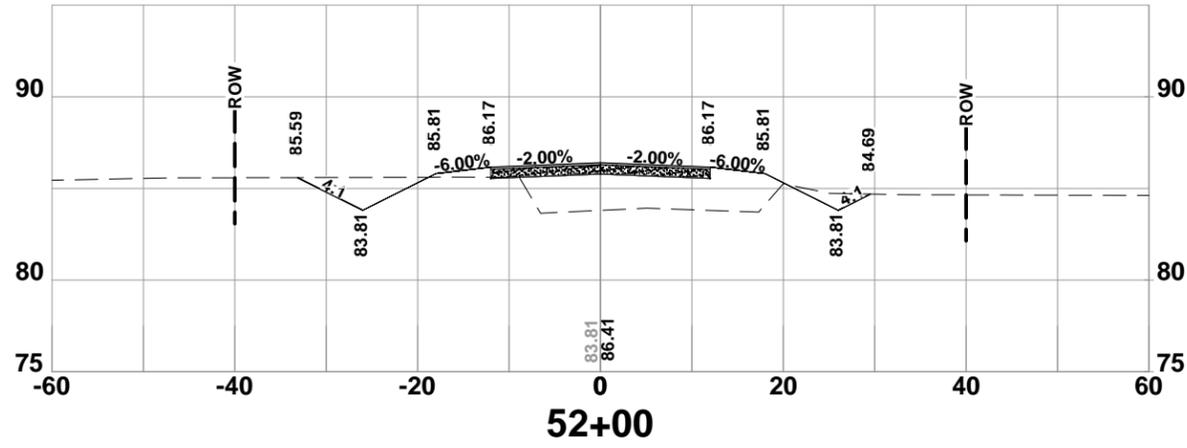


**CROSS SECTIONS**  
 SW HERLONG ST  
 COLUMBIA COUNTY, FLORIDA

REVISIONS:

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3		GB	CHECKED BY

DATE: 11/24/08  
 SHEET NO. 27

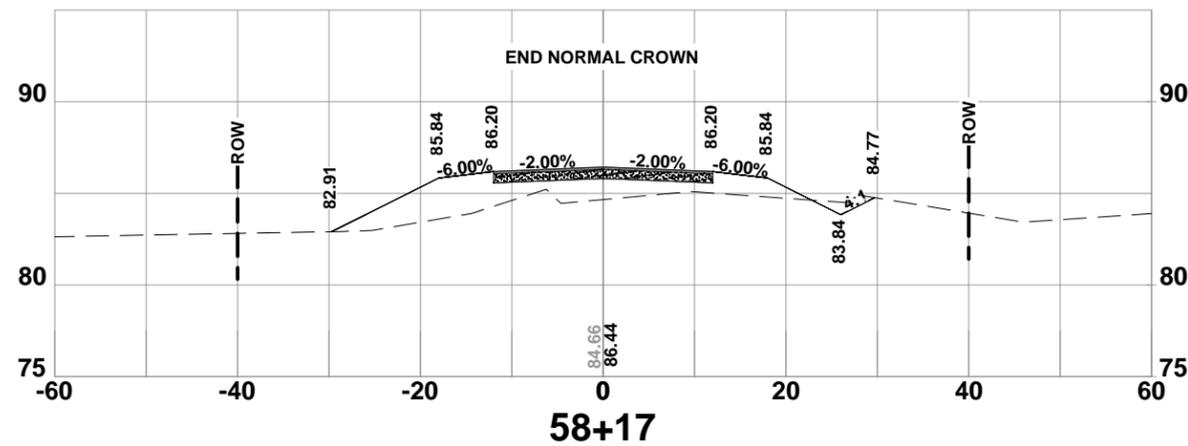
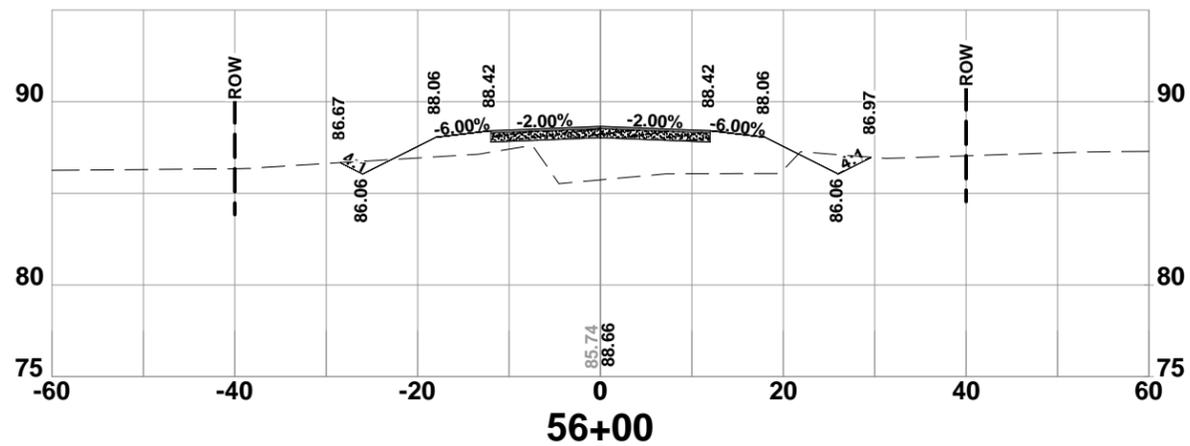
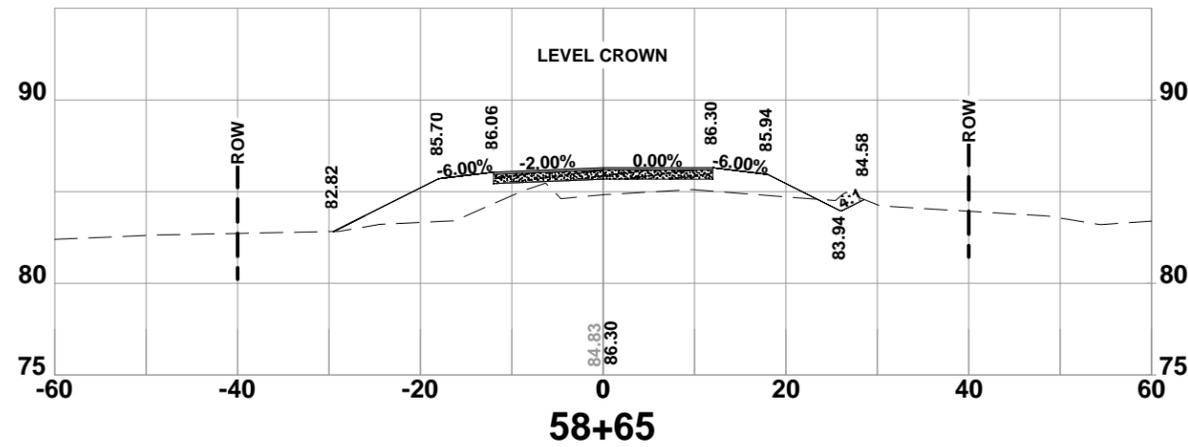
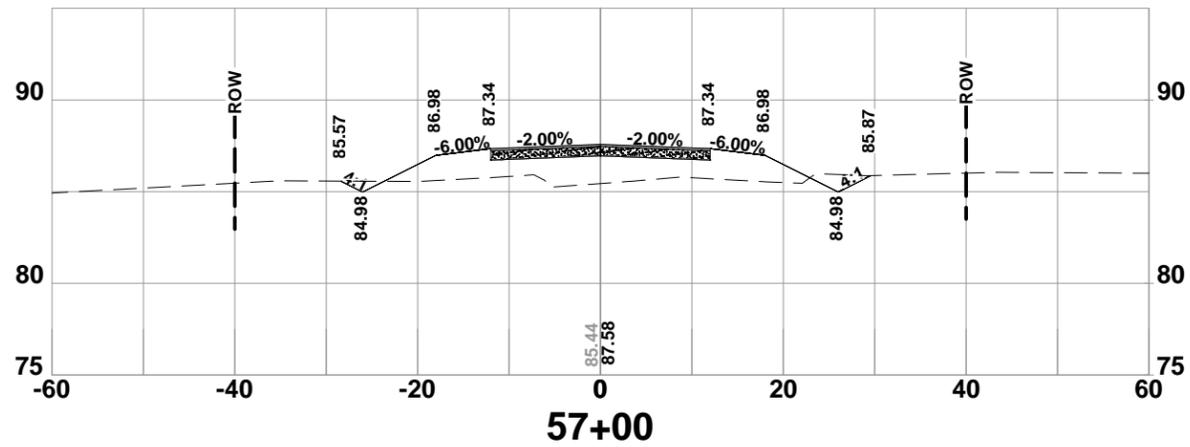
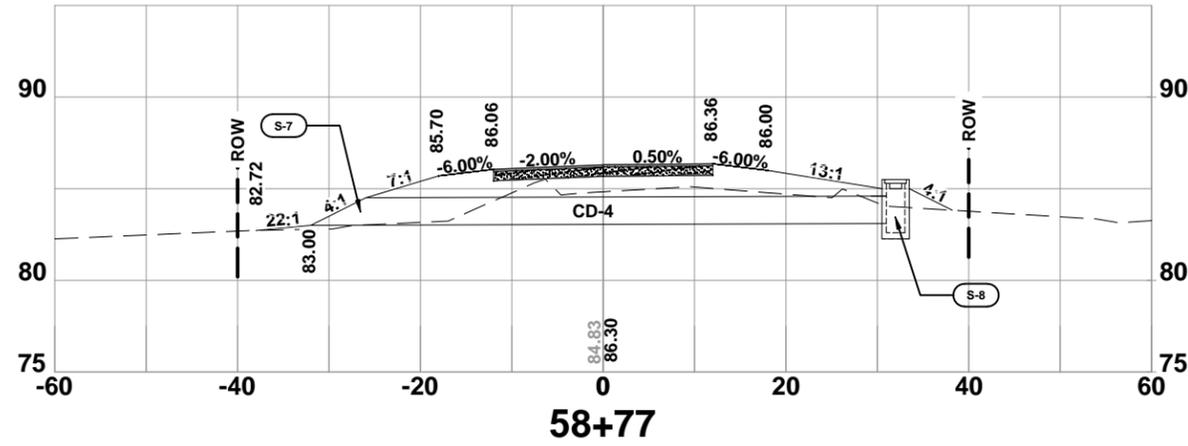
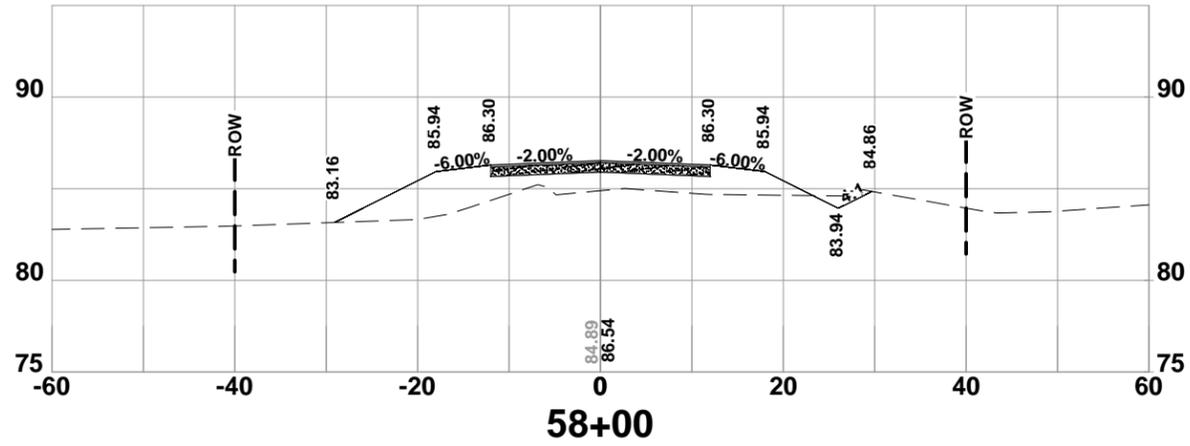


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**CROSS SECTIONS**  
 SW HERLONG ST  
 COLUMBIA COUNTY, FLORIDA

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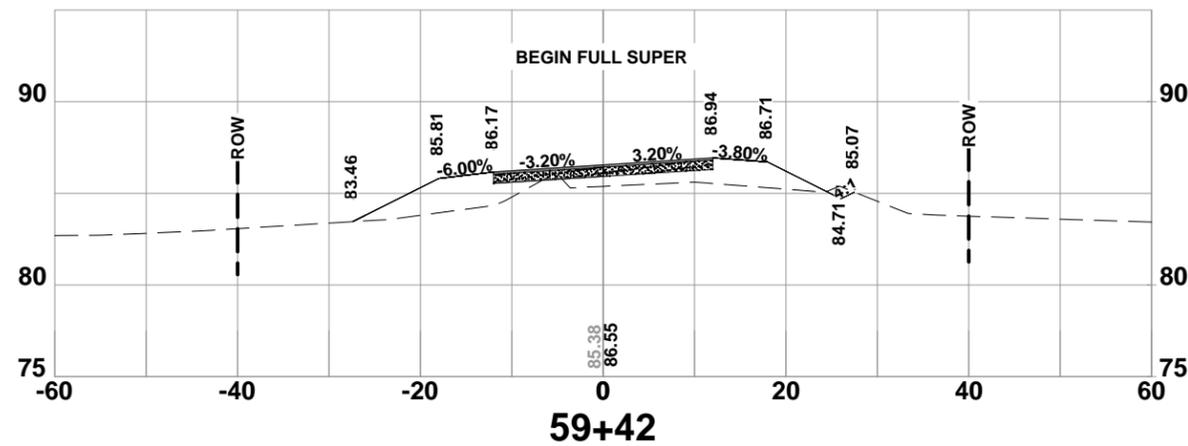
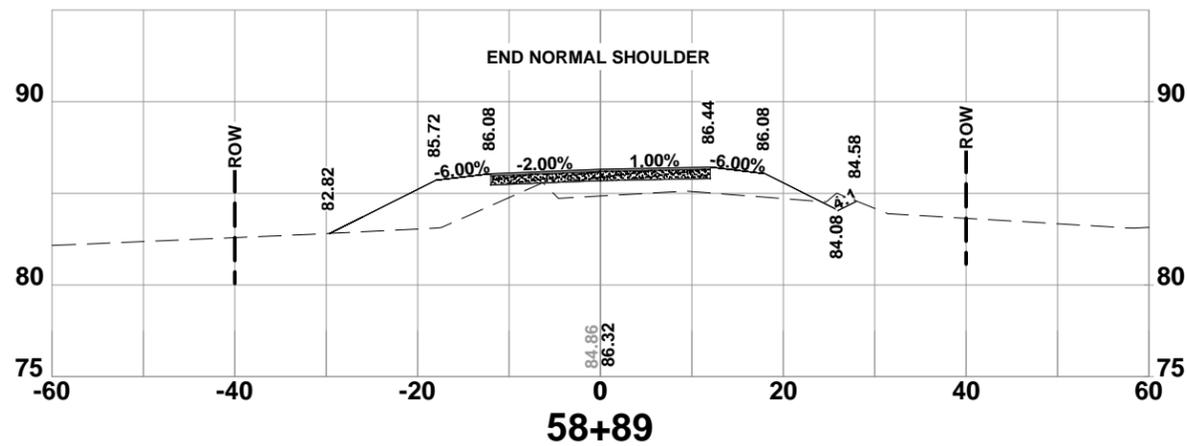
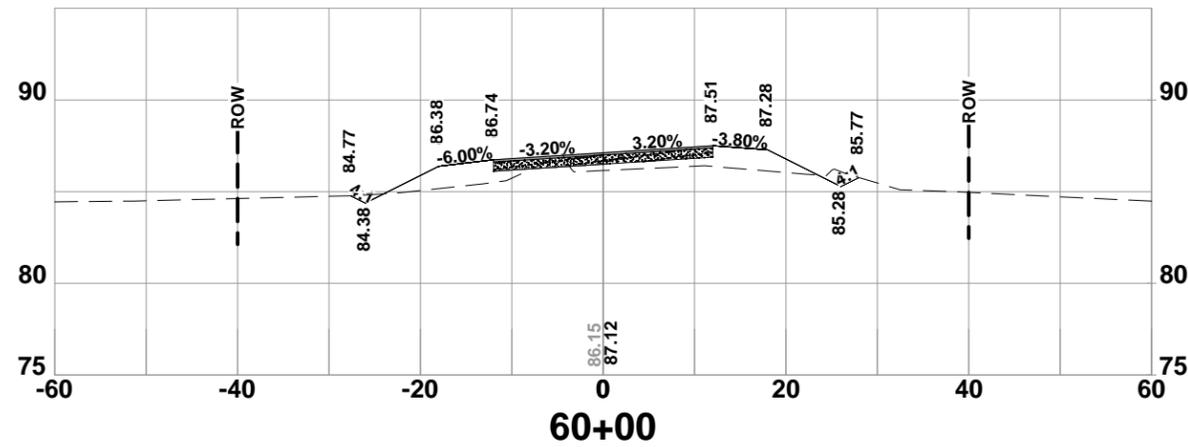
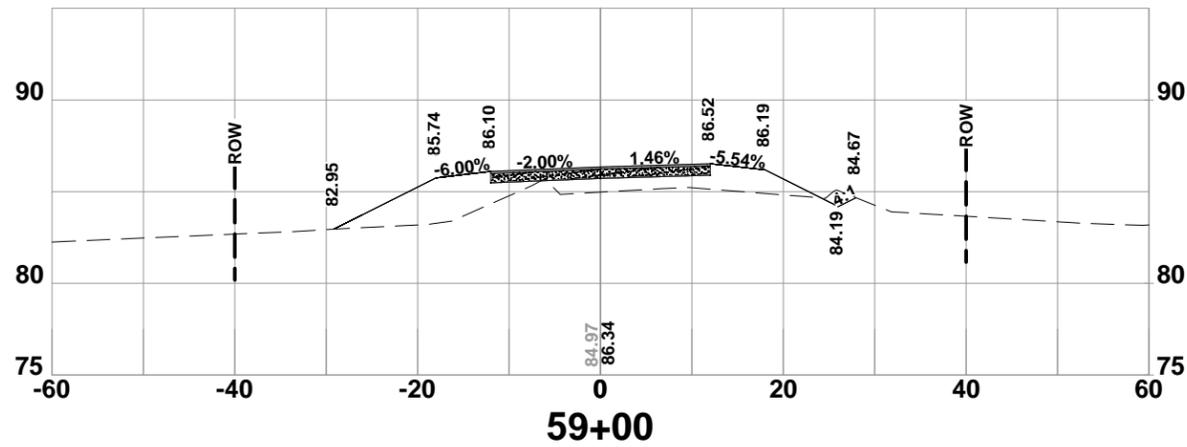
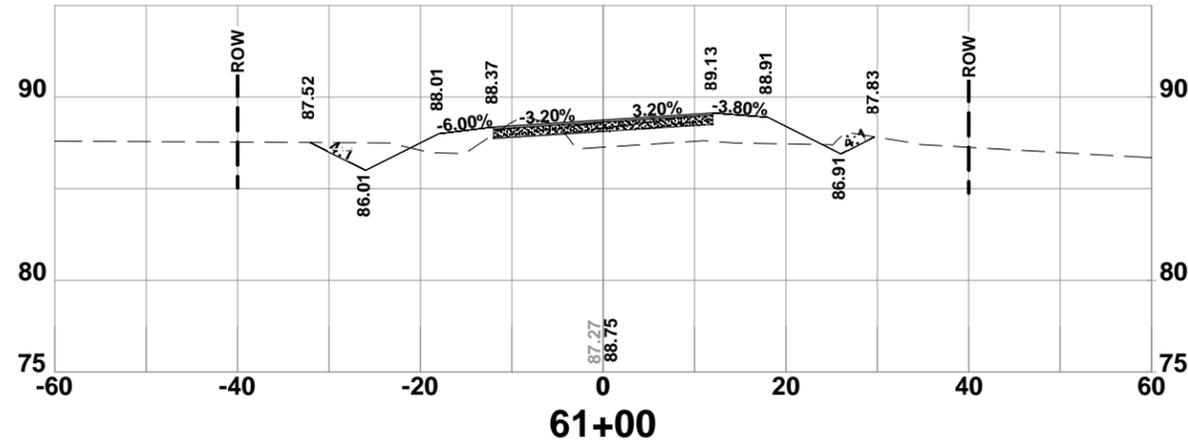
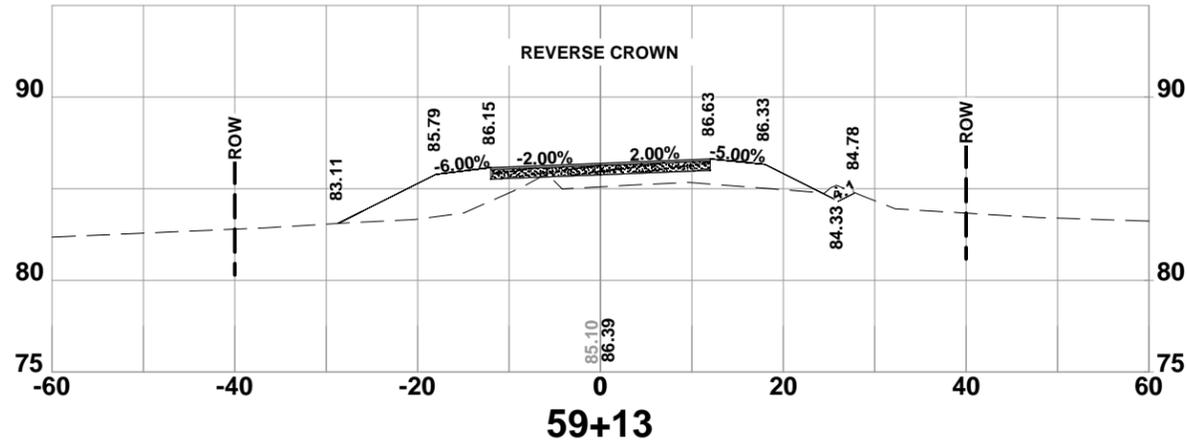
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CHECKED BY:	GB
DATE:	11/24/08
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 COLUMBIA COUNTY, FLORIDA

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JOB NUMBER:	L140602CCB
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CHECKED BY:	GB
DATE:	11/24/08
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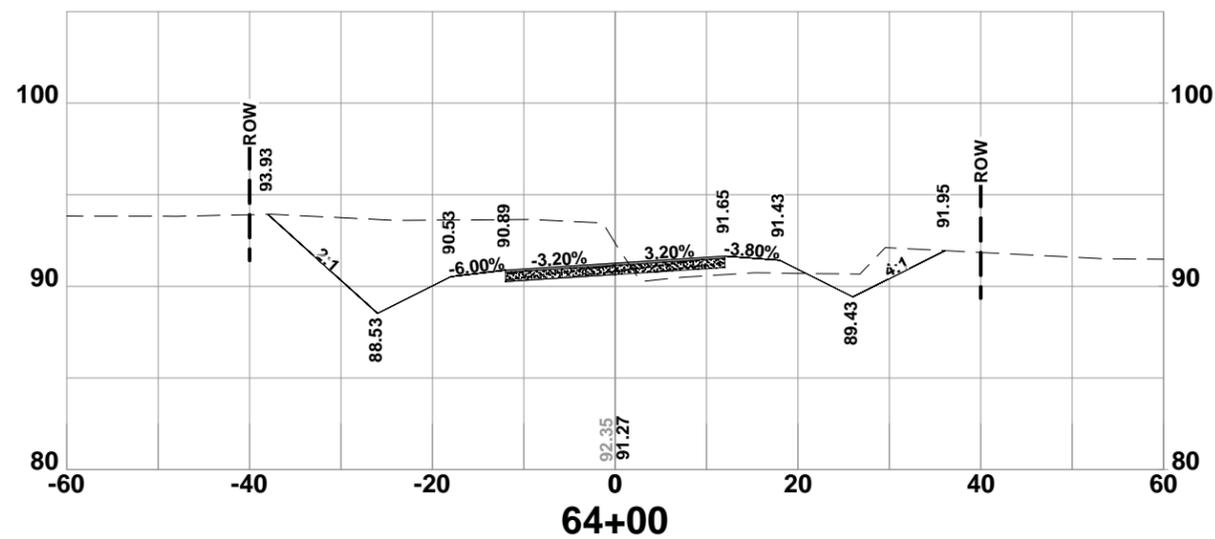
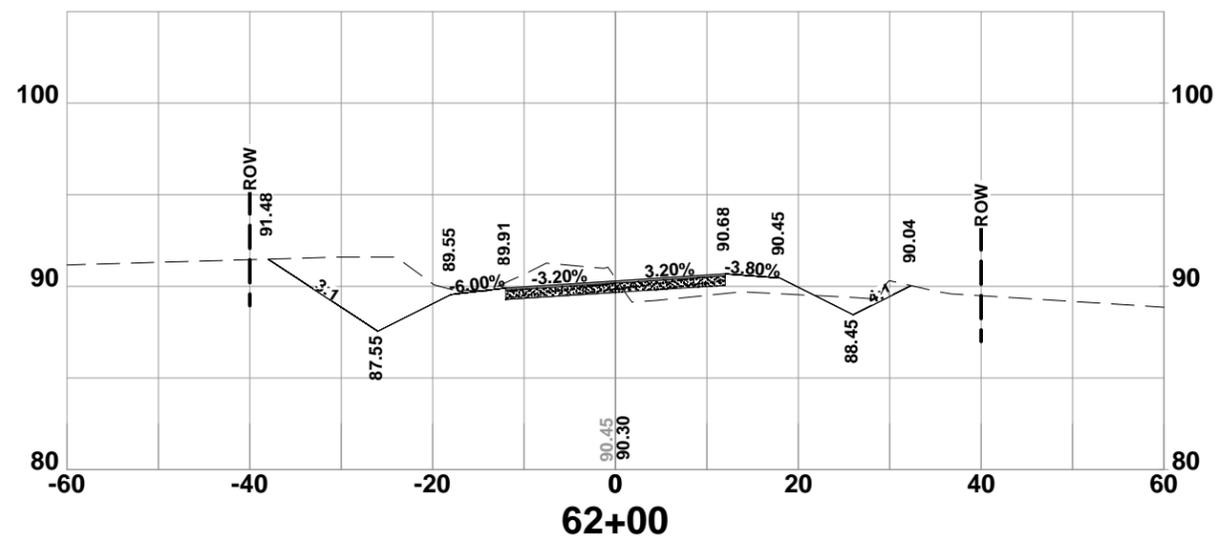
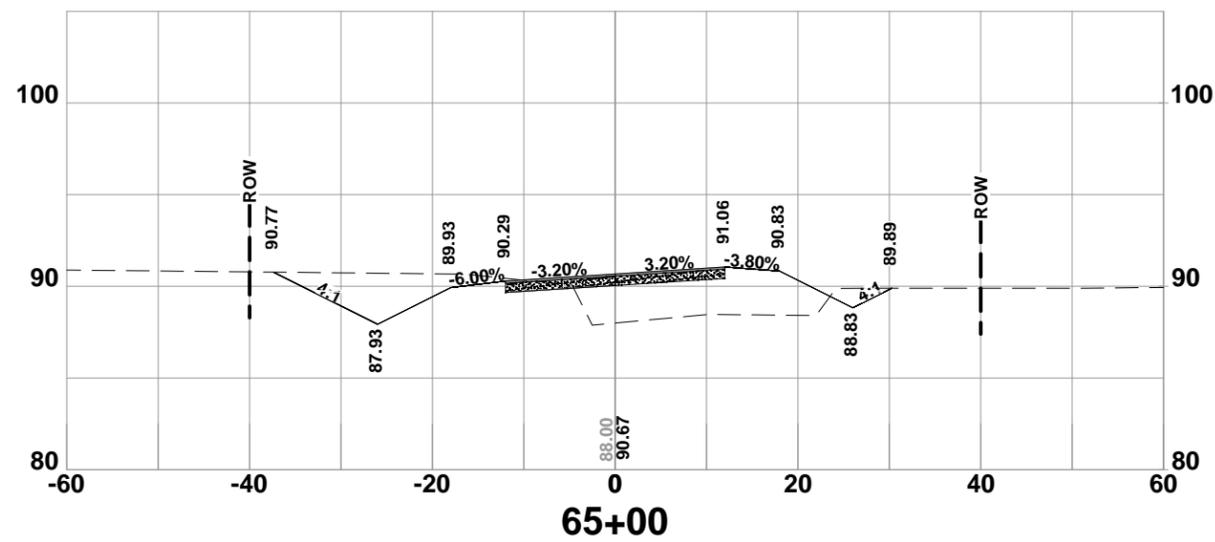
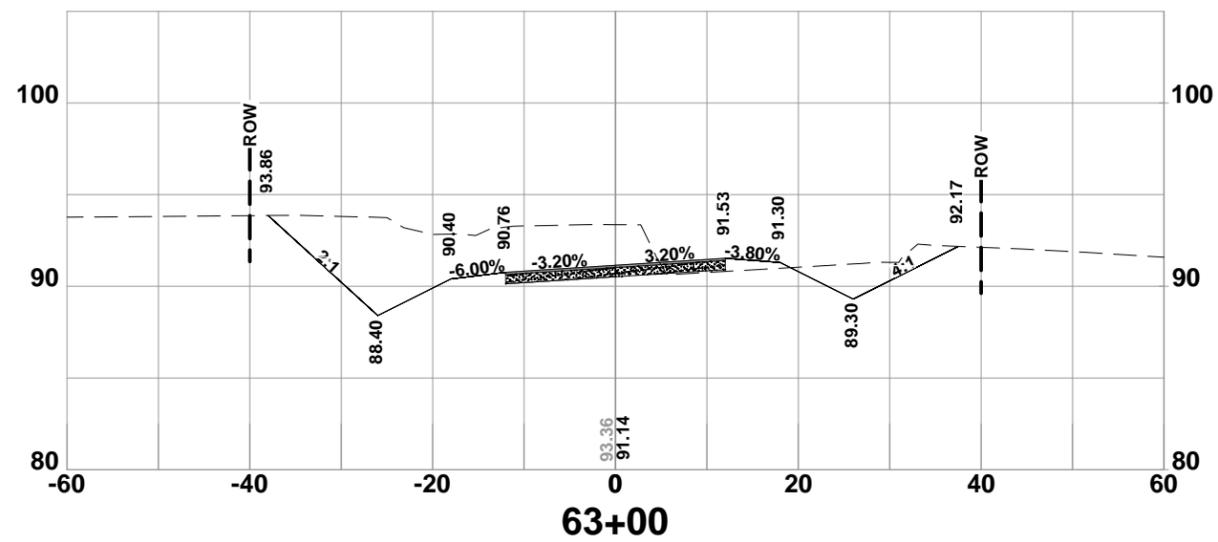


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 SW HERLONG ST  
 COLUMBIA COUNTY, FLORIDA

REVISIONS:

DATE	BY	DESCRIPTION
11/24/08	GB	DESIGNED BY
	RD	DRAFTED BY
	GB	CHECKED BY
		SIGNATURE & SEAL

JOB NUMBER: L140602CCB  
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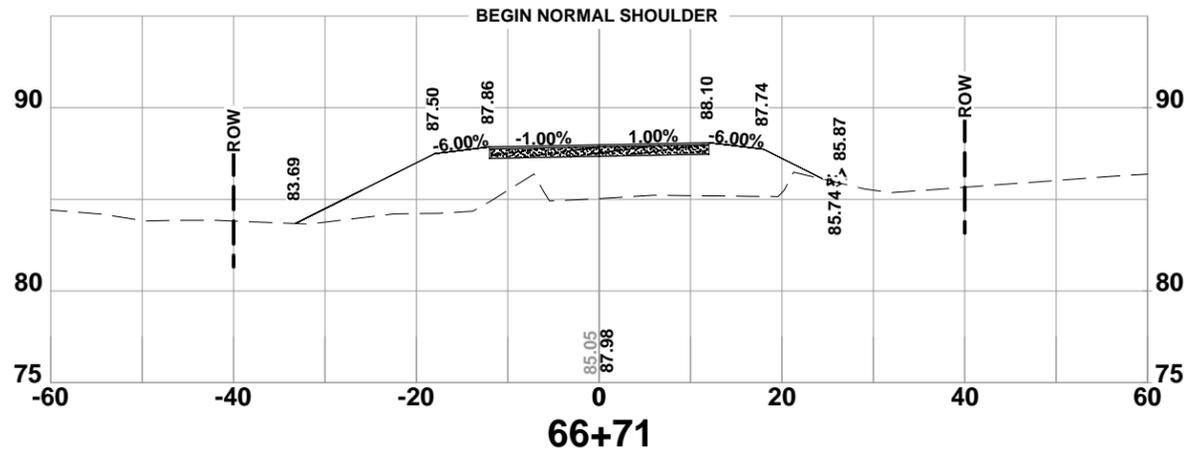
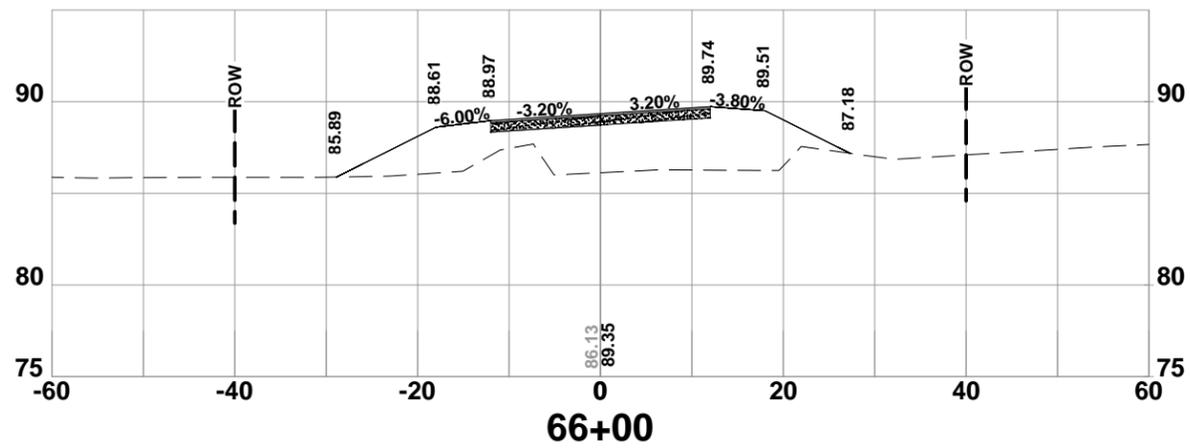
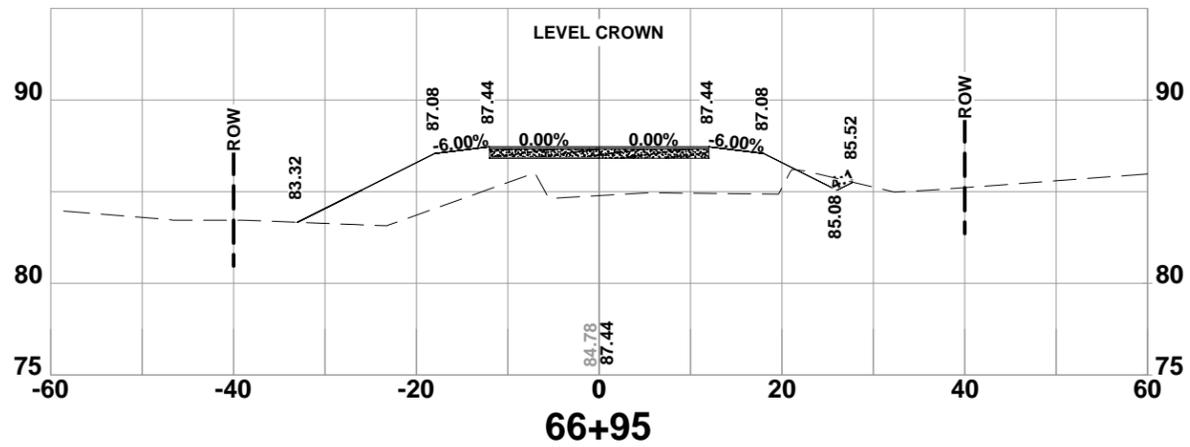
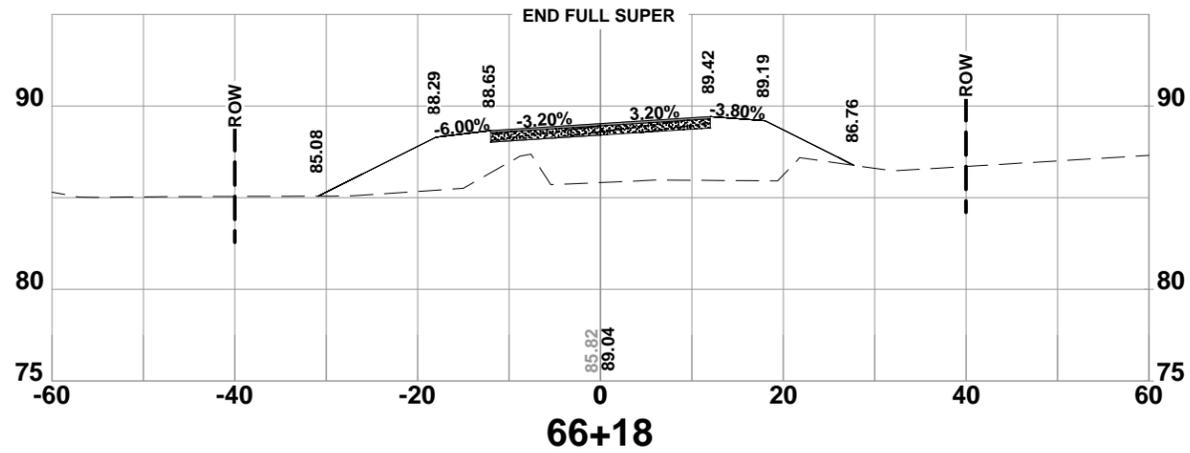
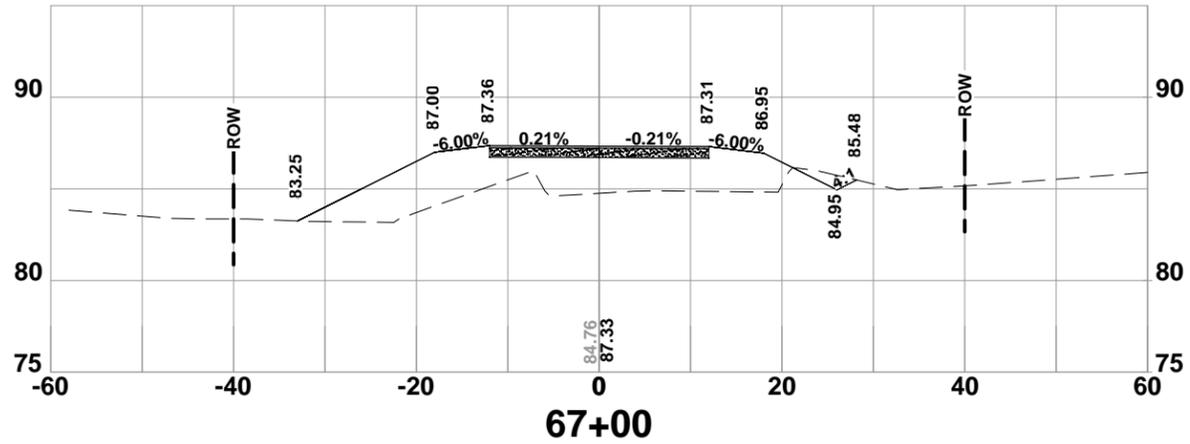
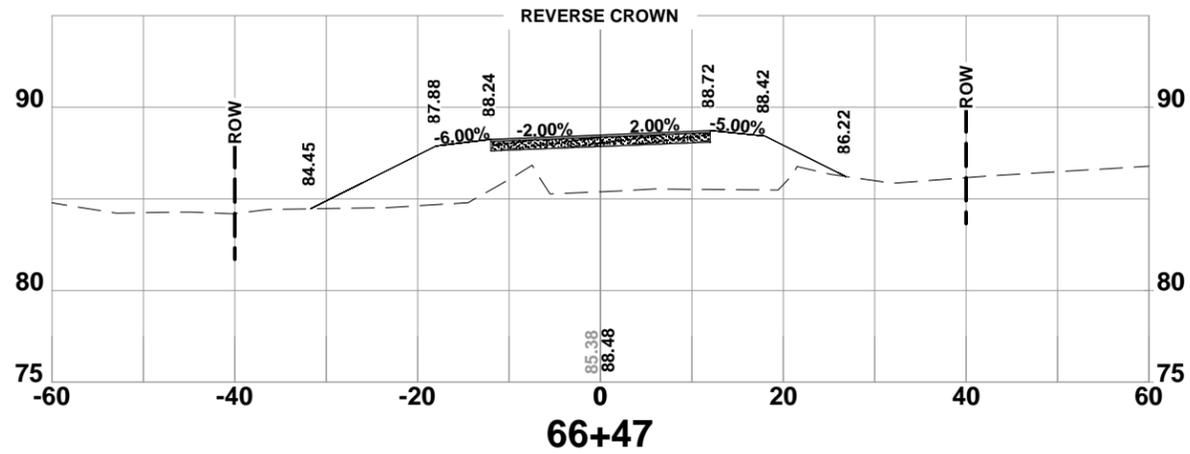


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 SW HERLONG ST  
 COLUMBIA COUNTY, FLORIDA

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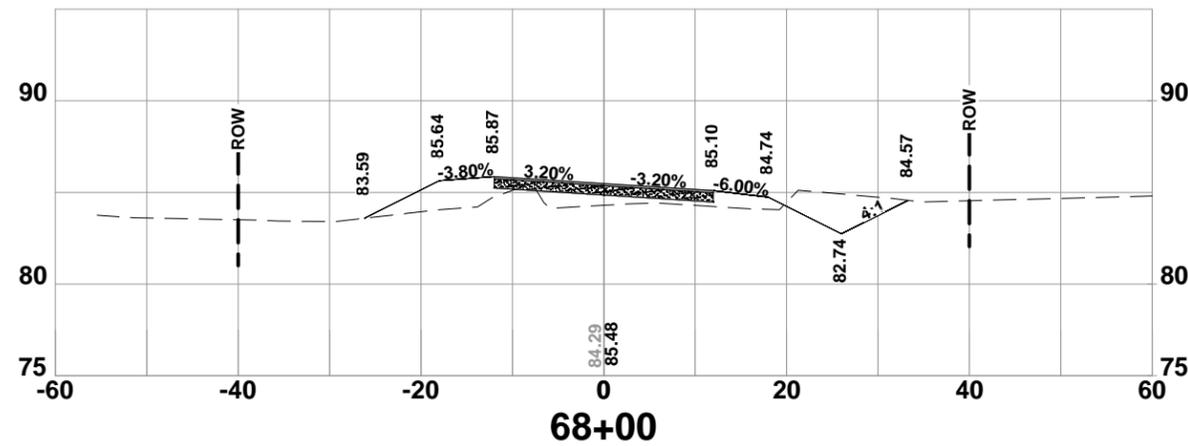
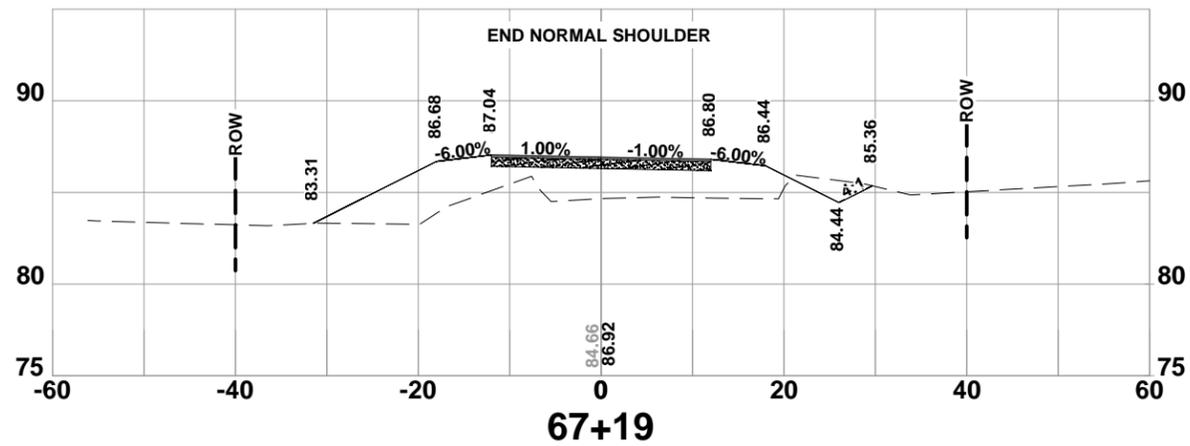
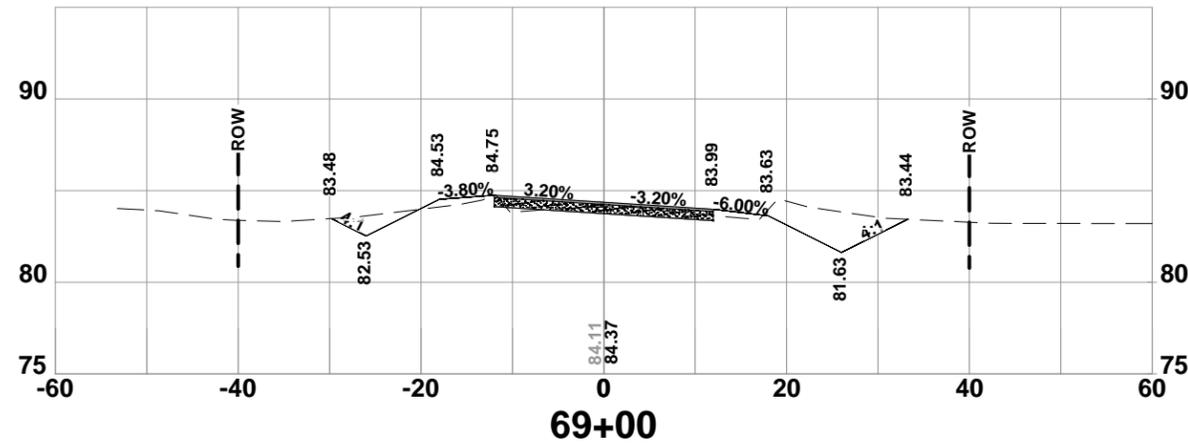
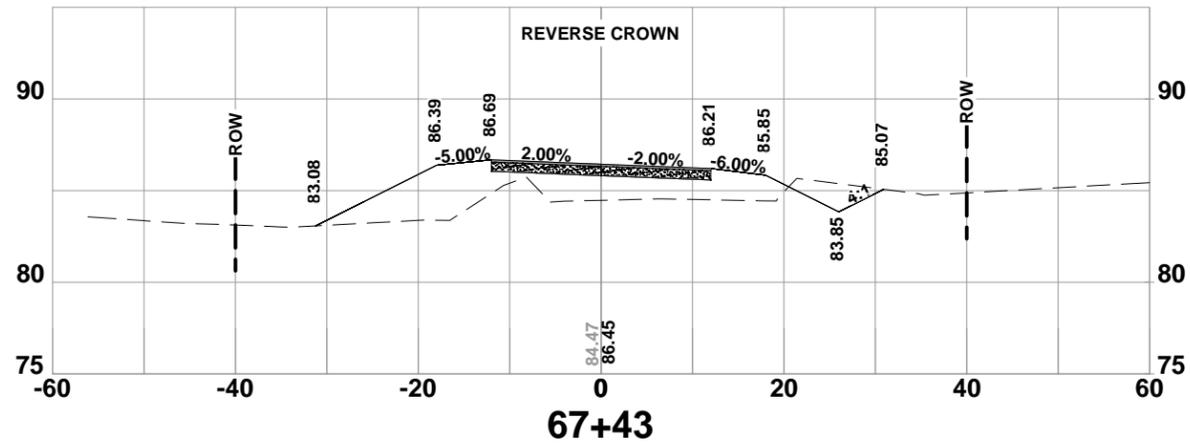
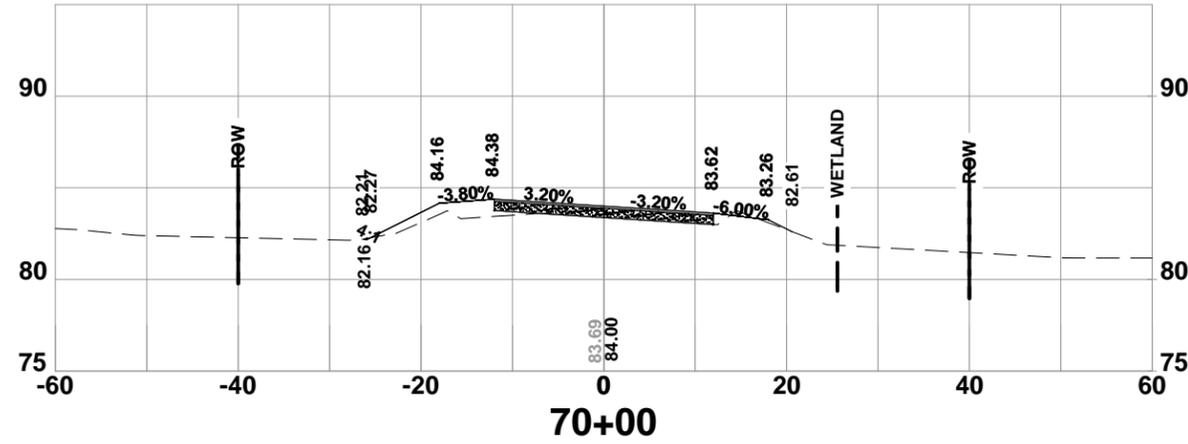
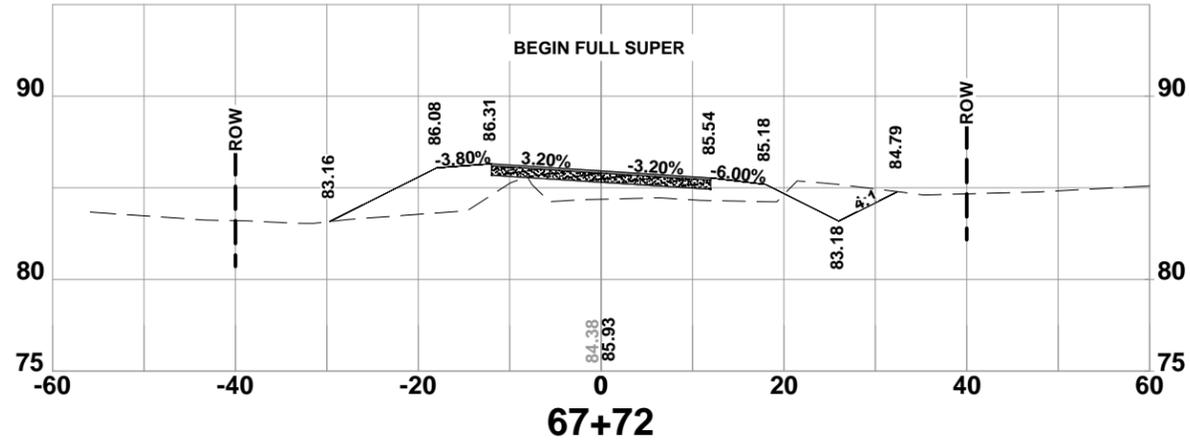
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	GB	CHECKED BY

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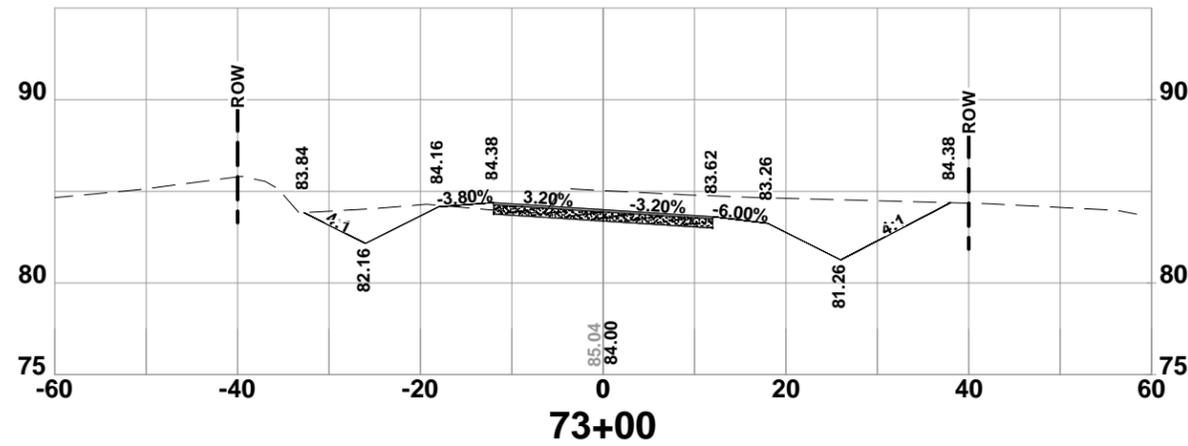
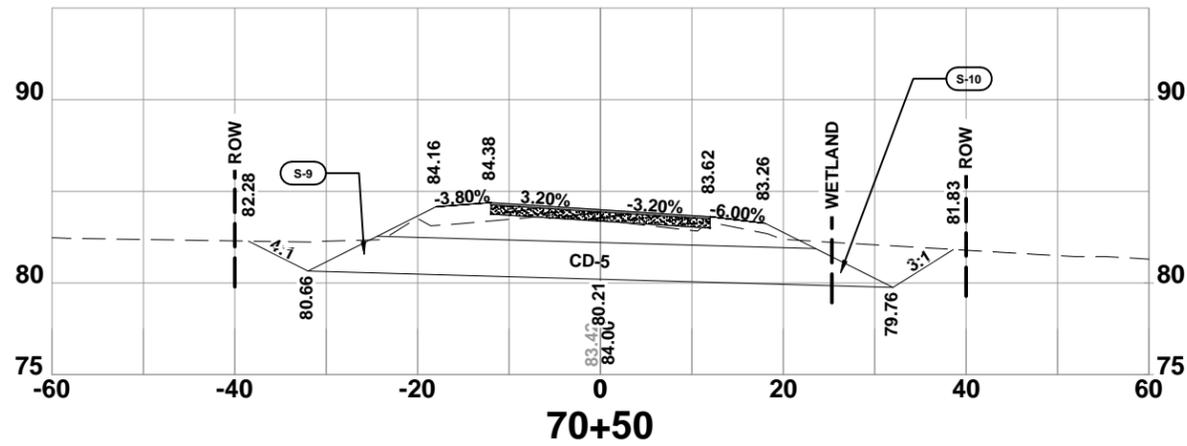
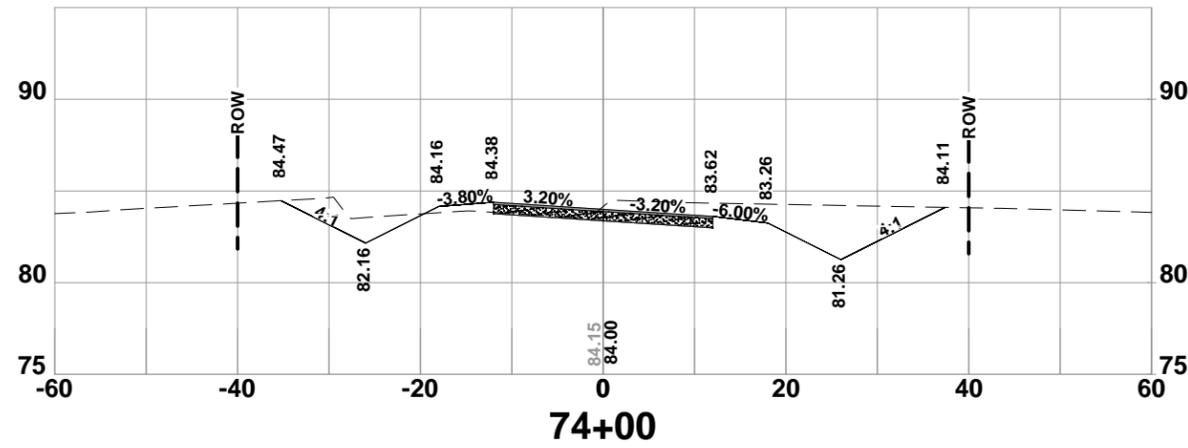
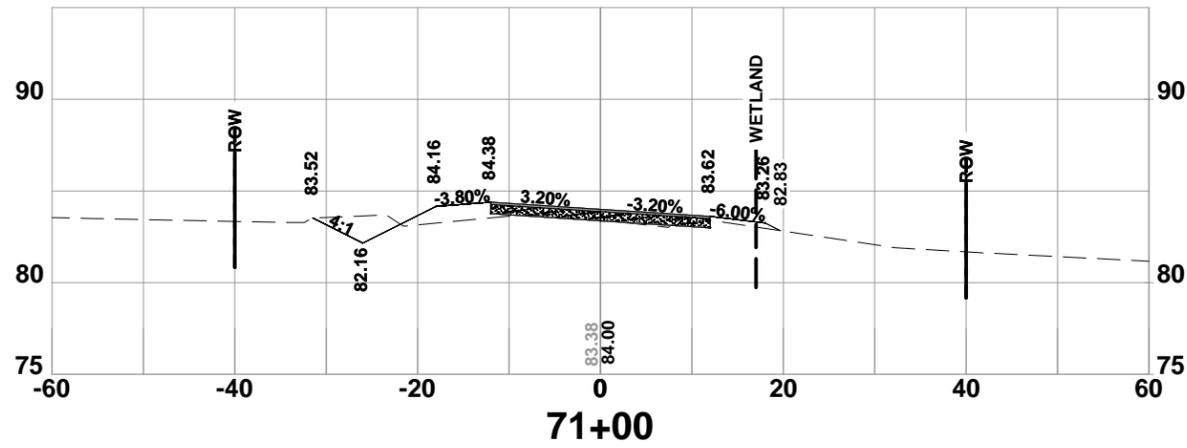
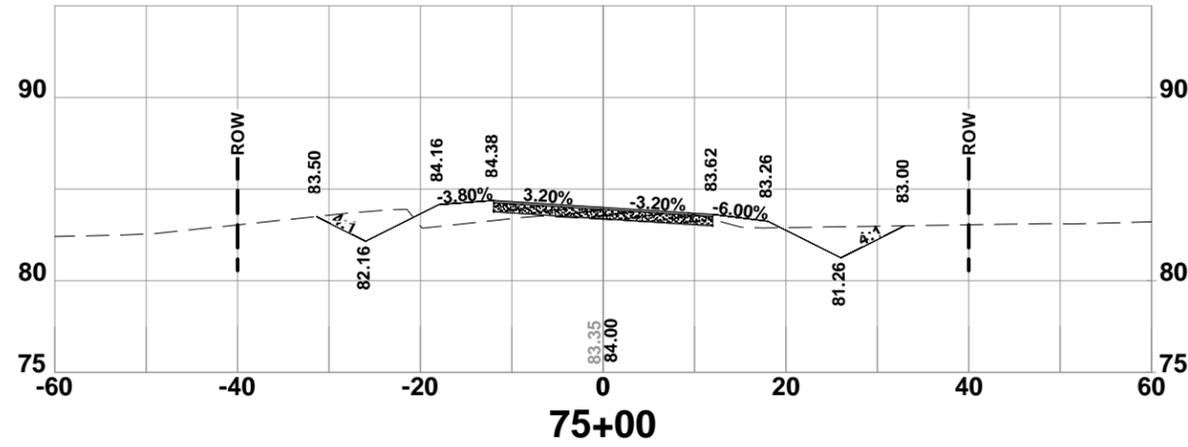
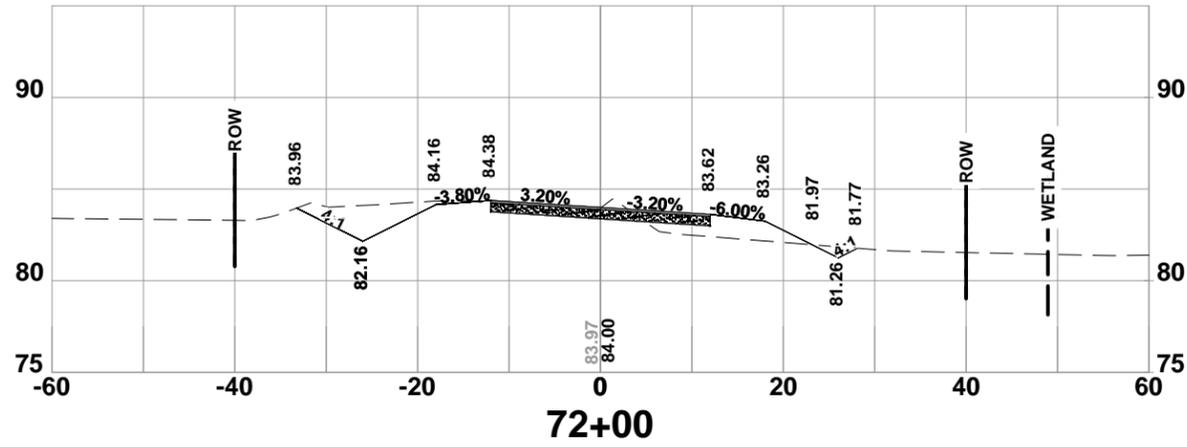
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 SW HERLONG ST  
 COLUMBIA COUNTY, FLORIDA

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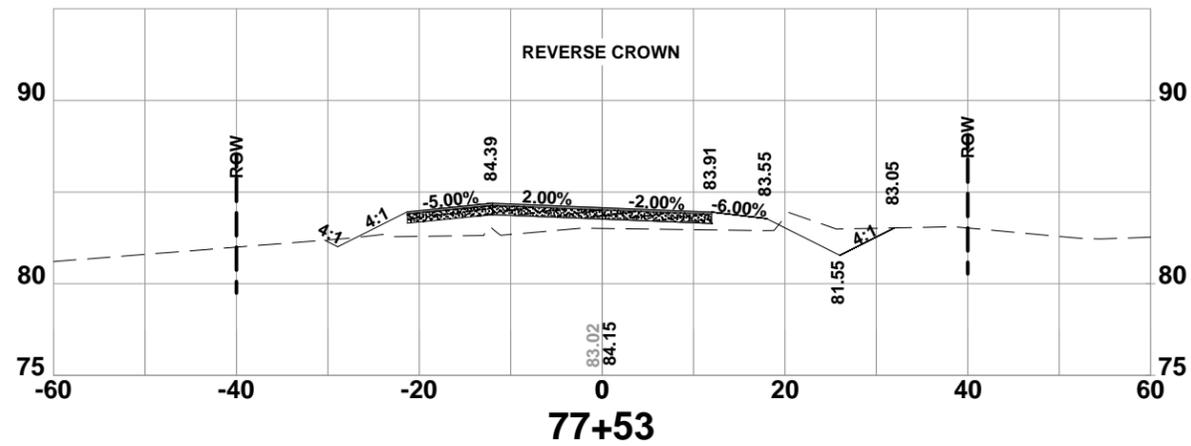
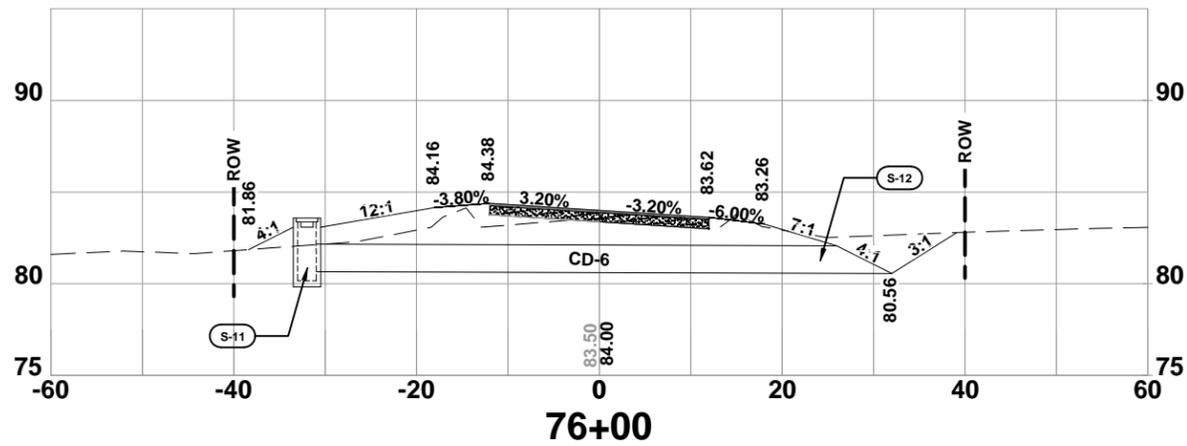
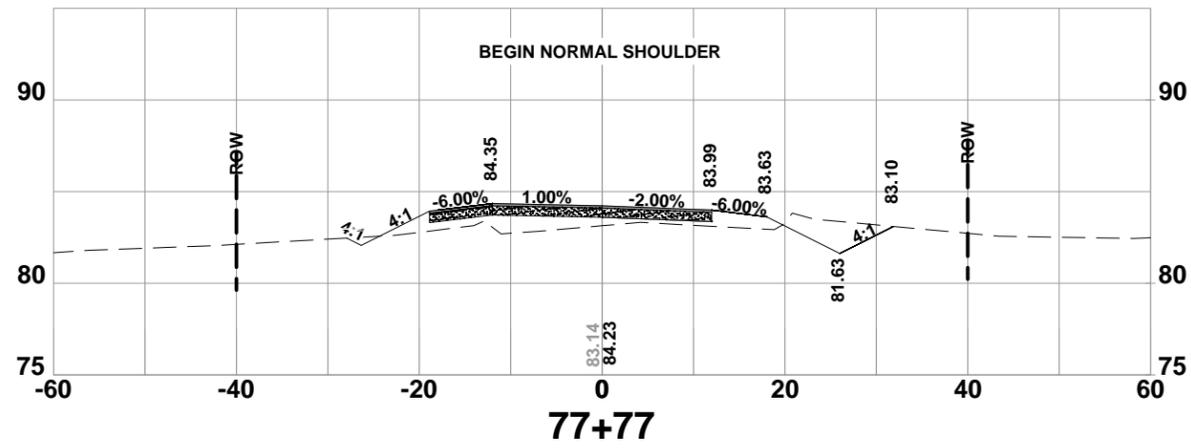
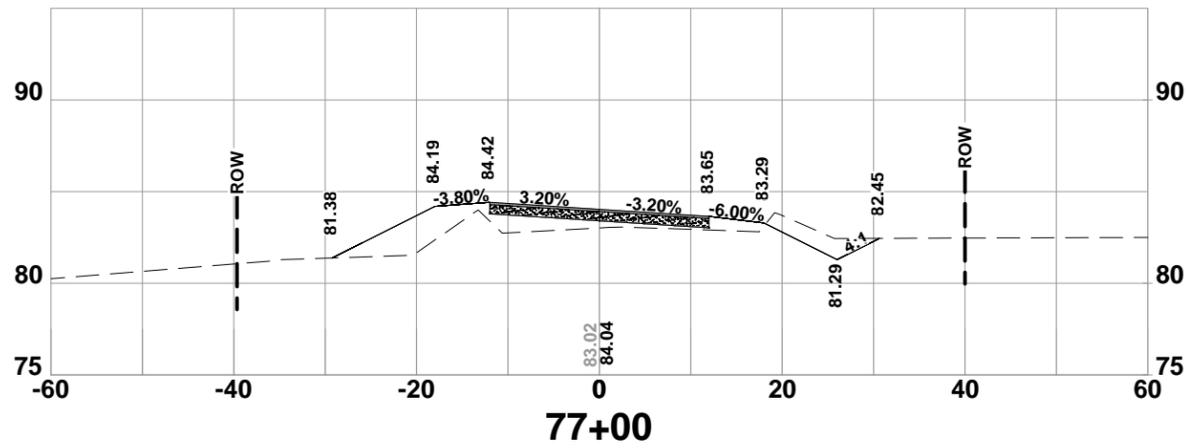
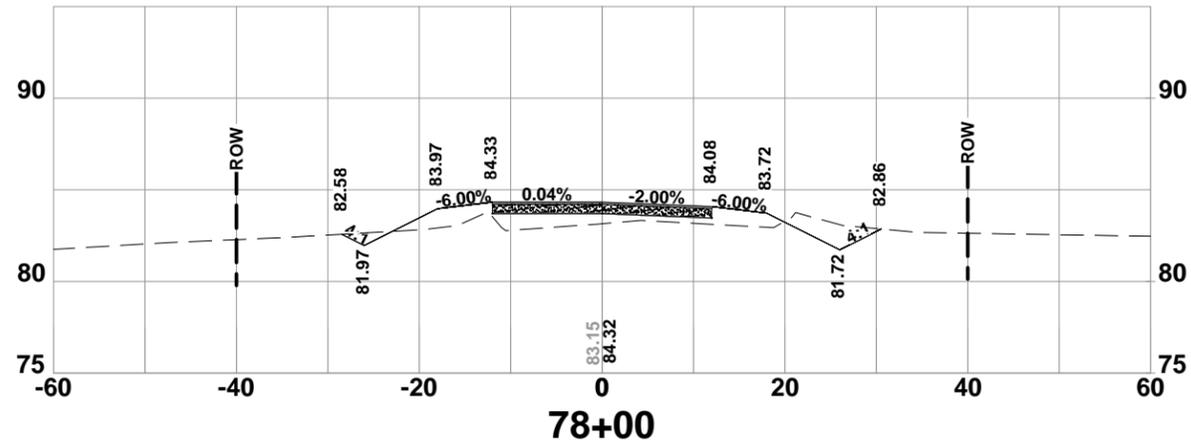
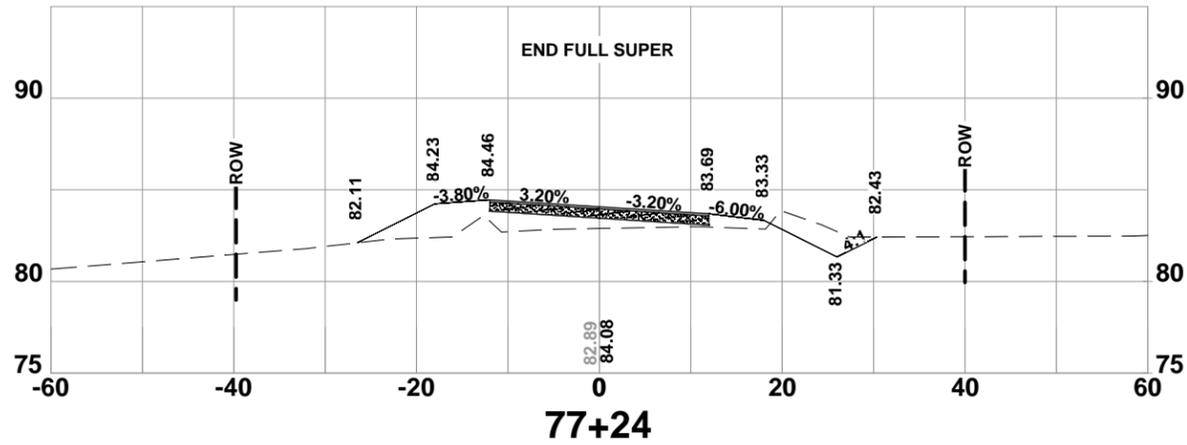


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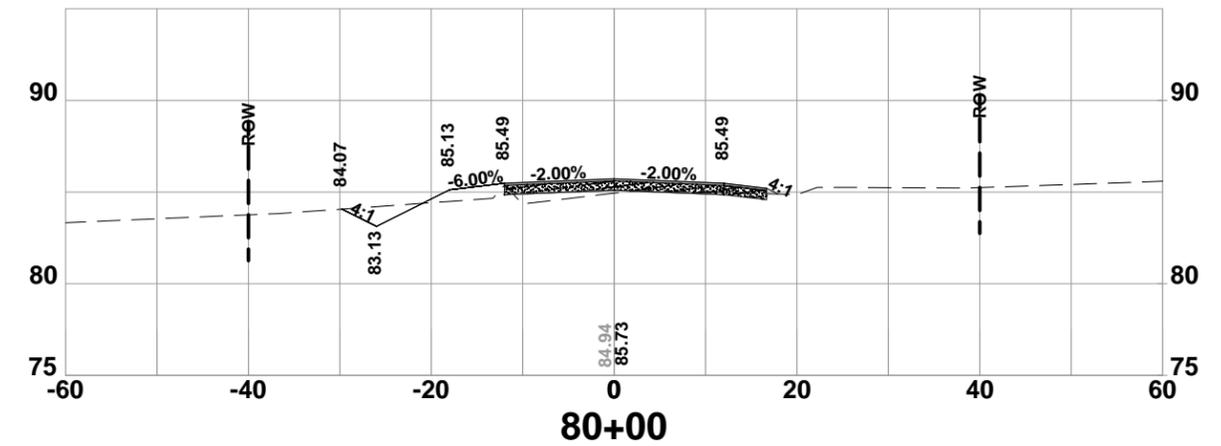
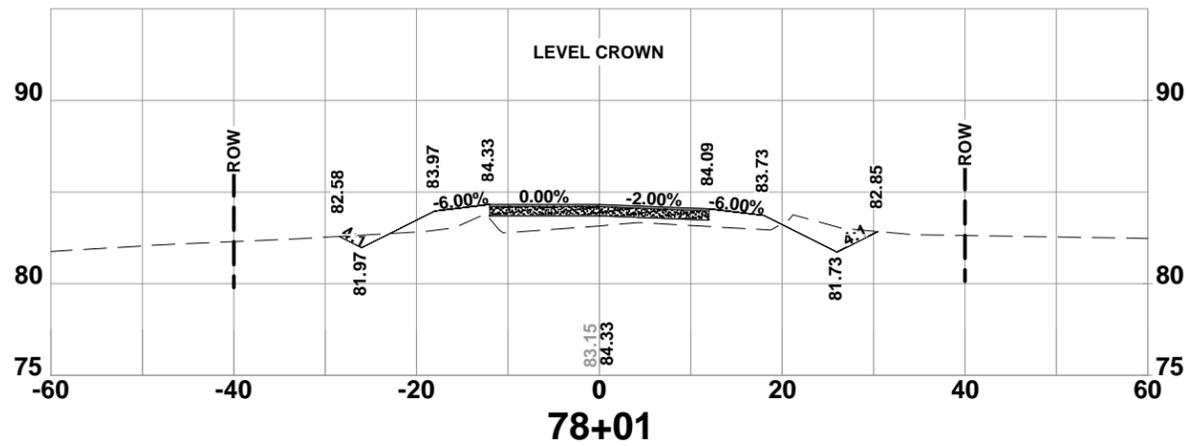
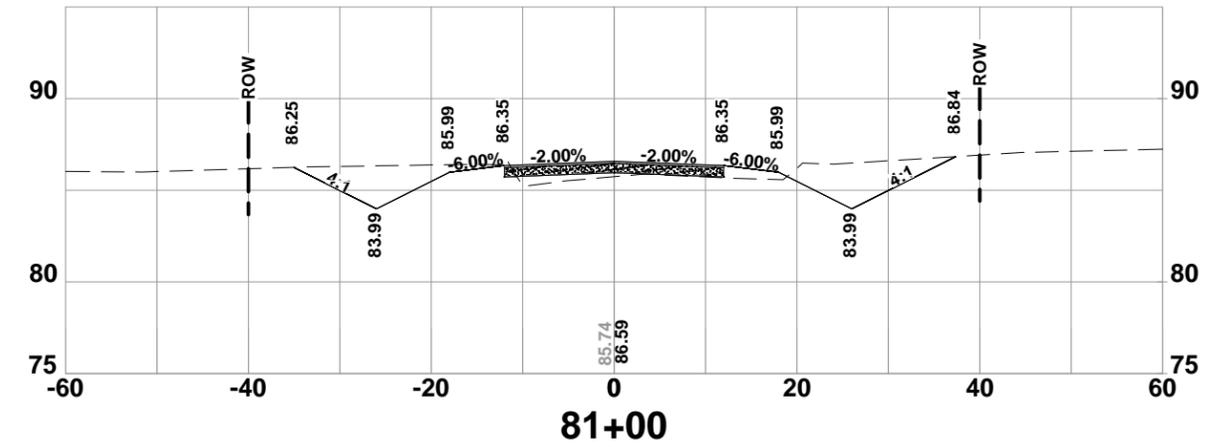
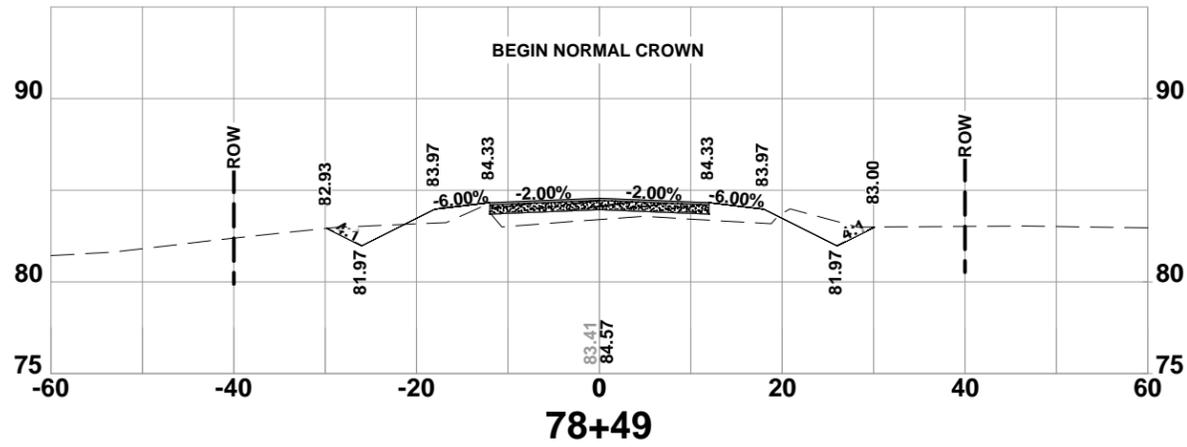
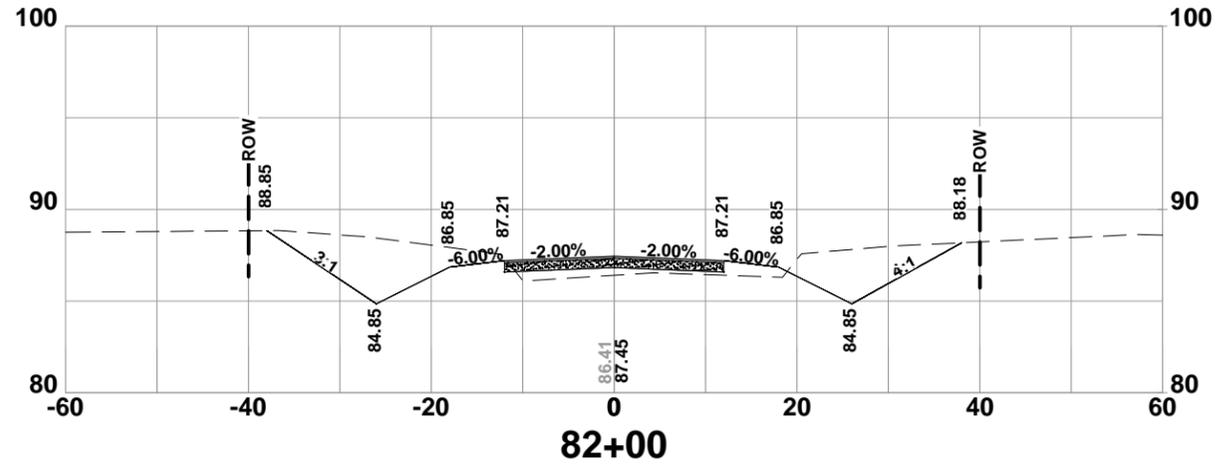
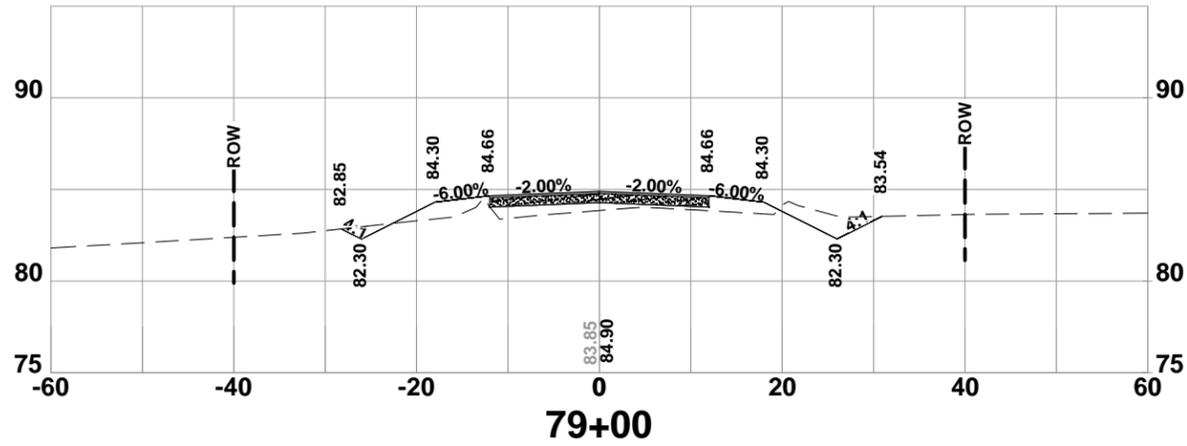
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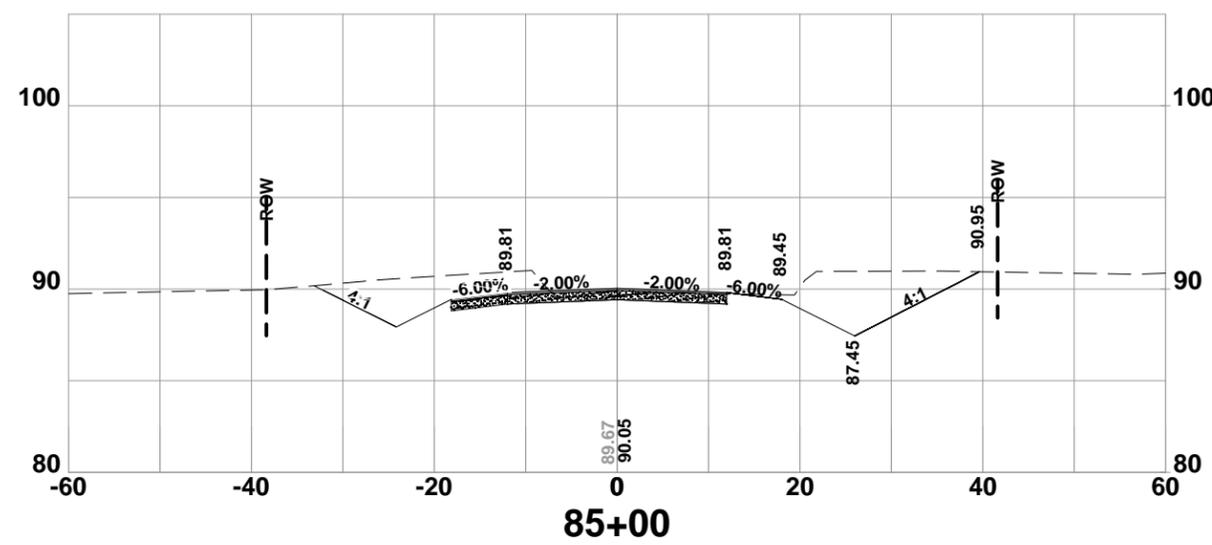
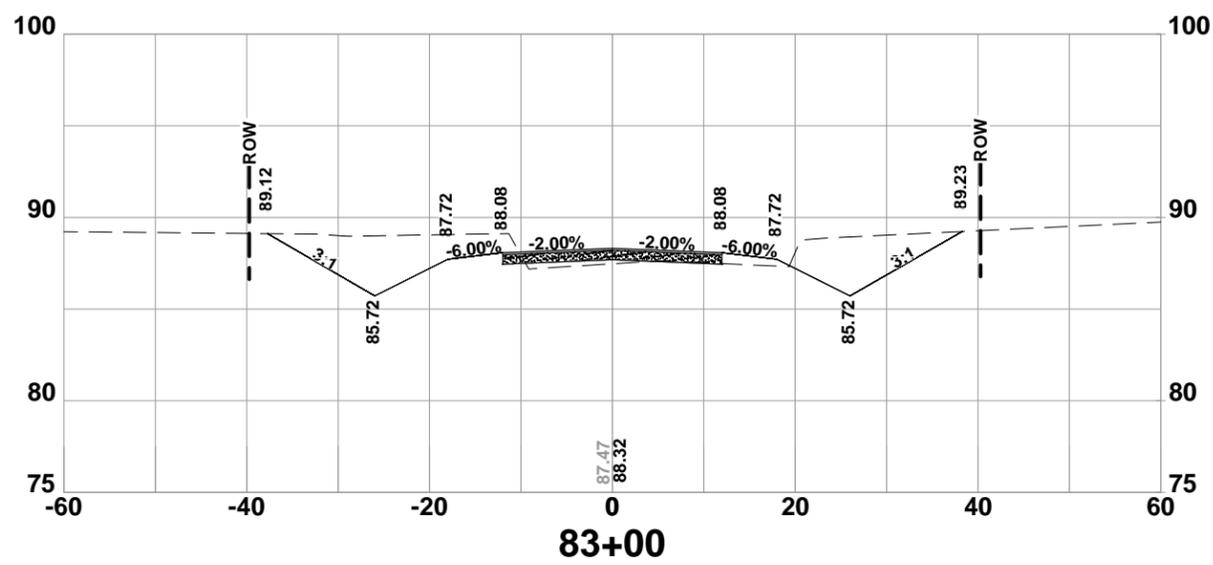
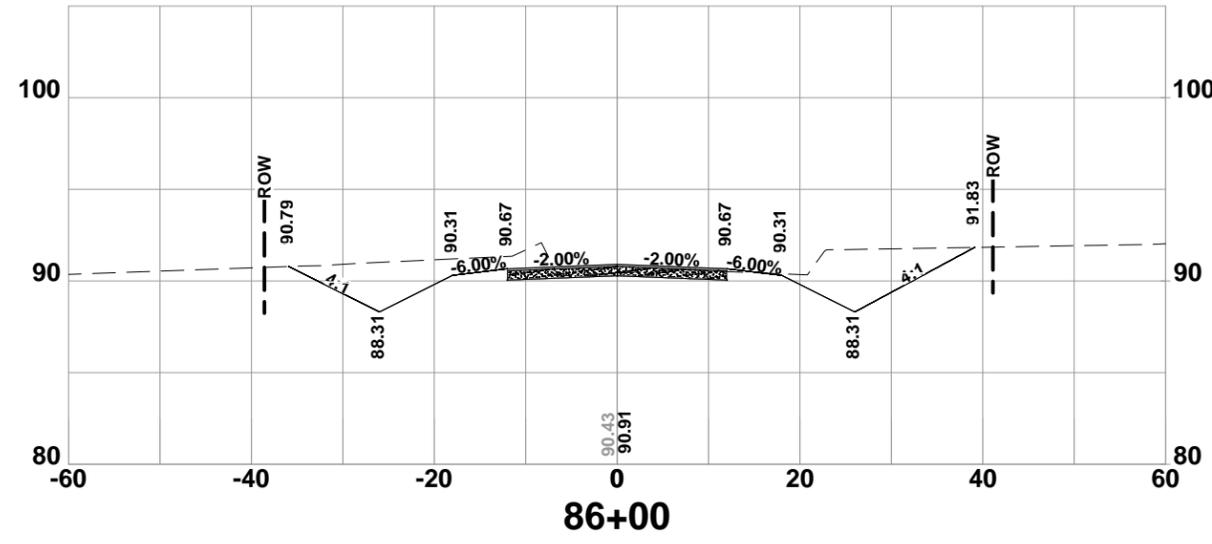
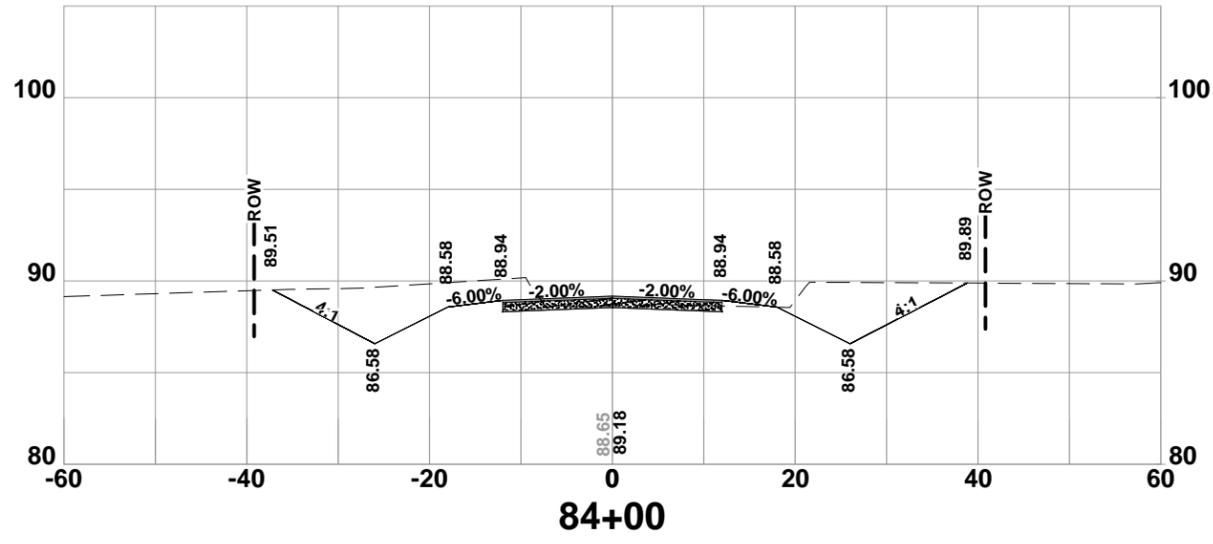
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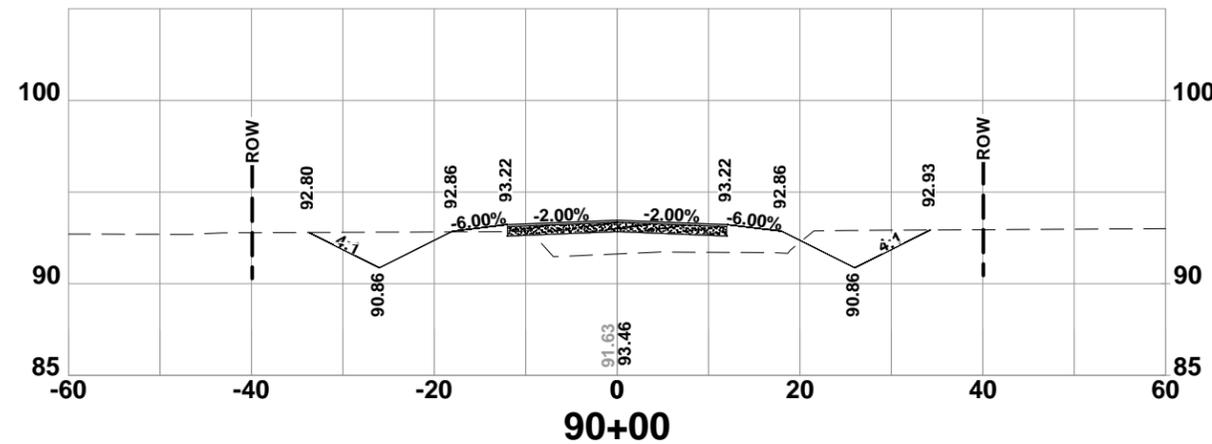
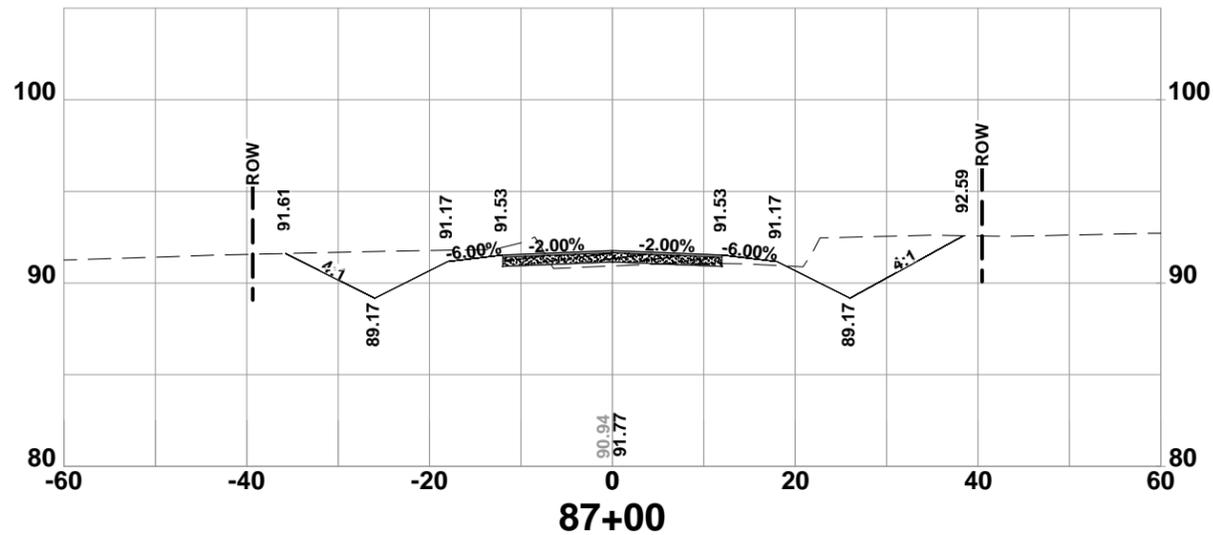
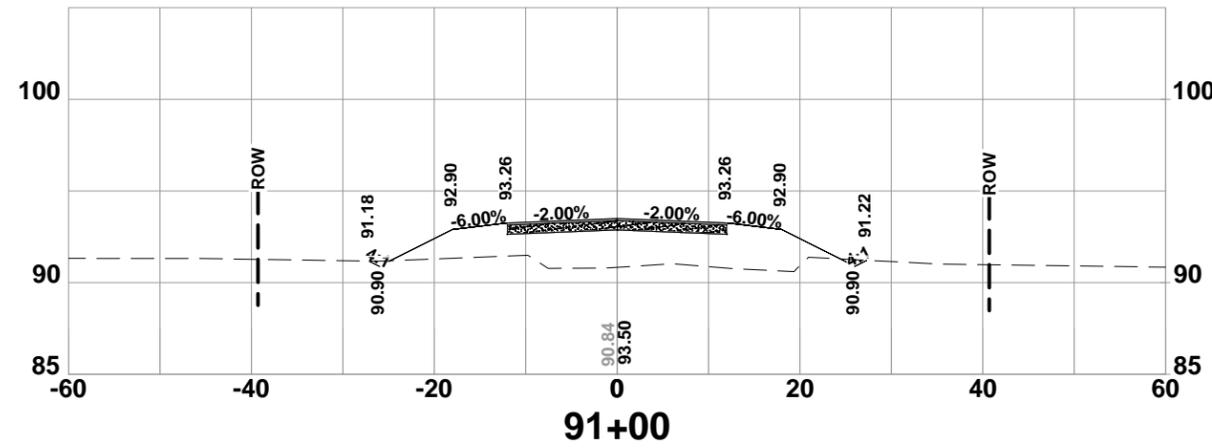
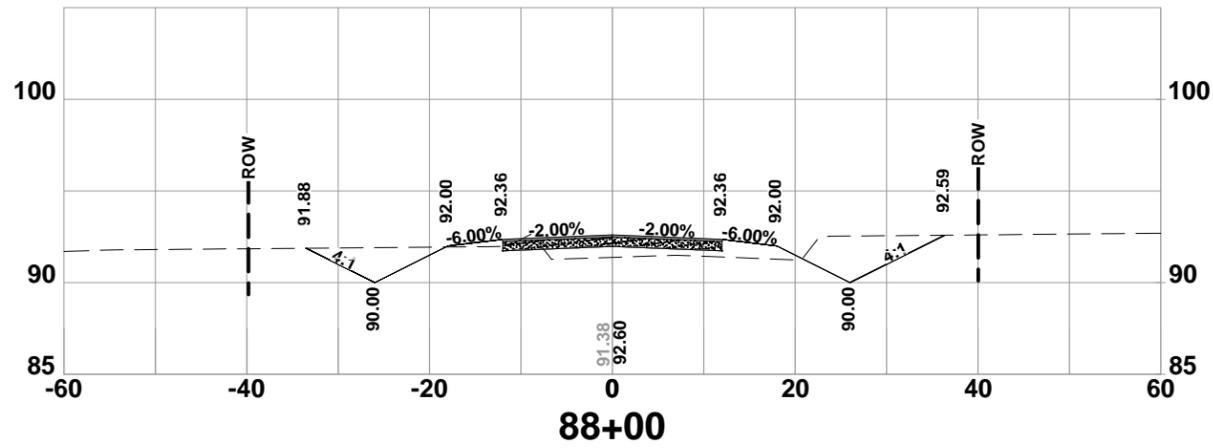
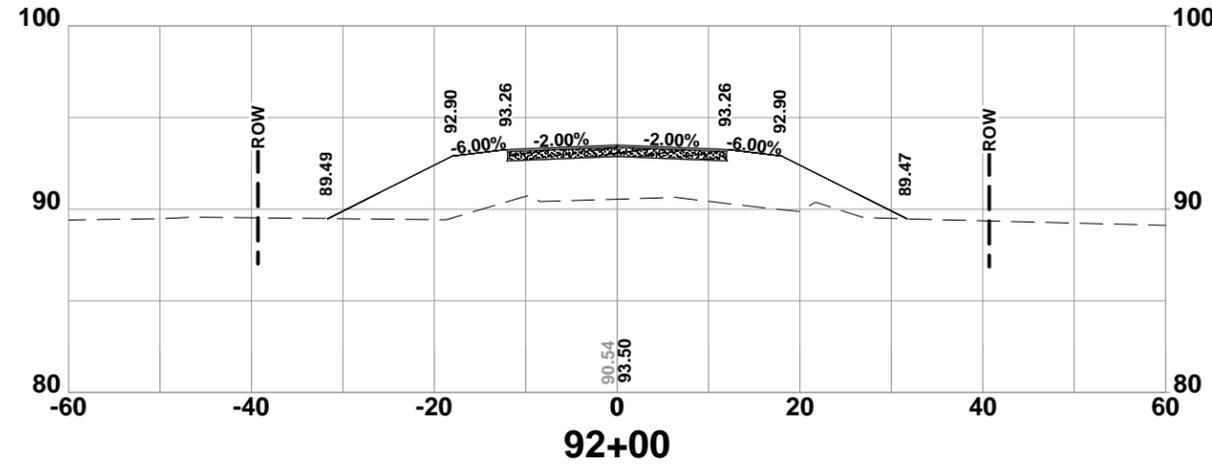
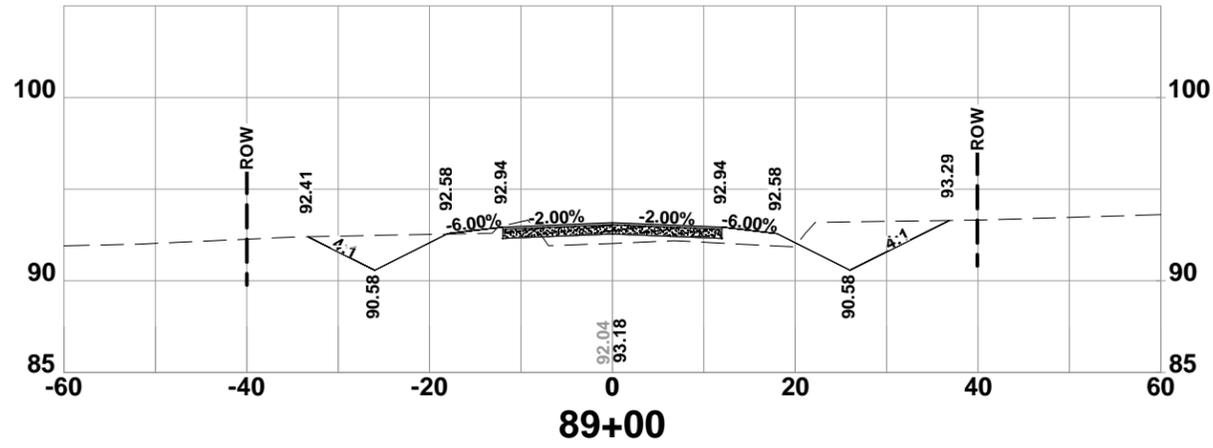
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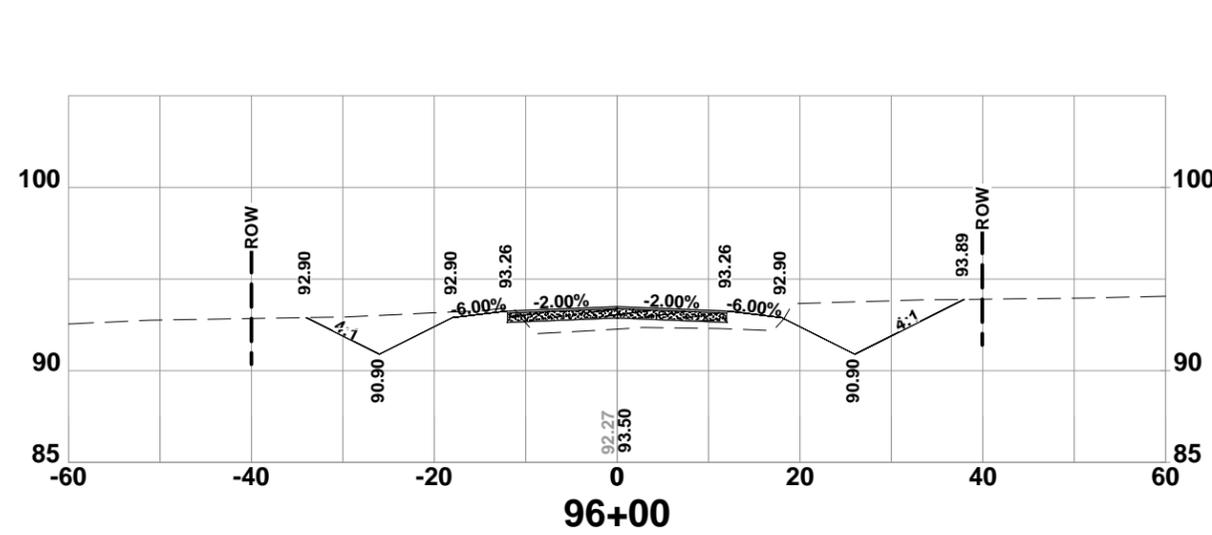
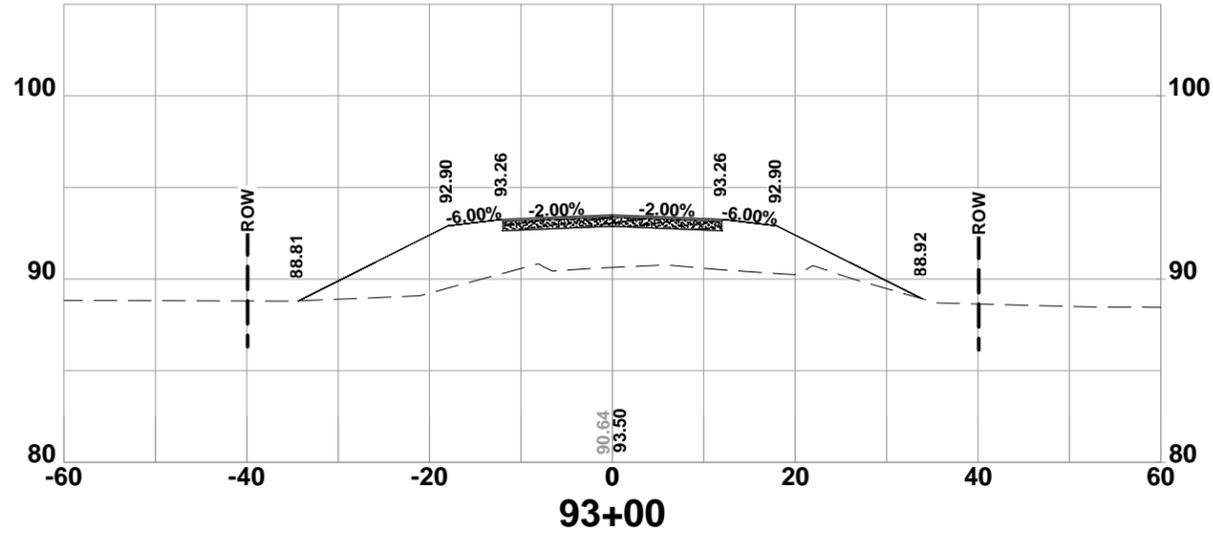
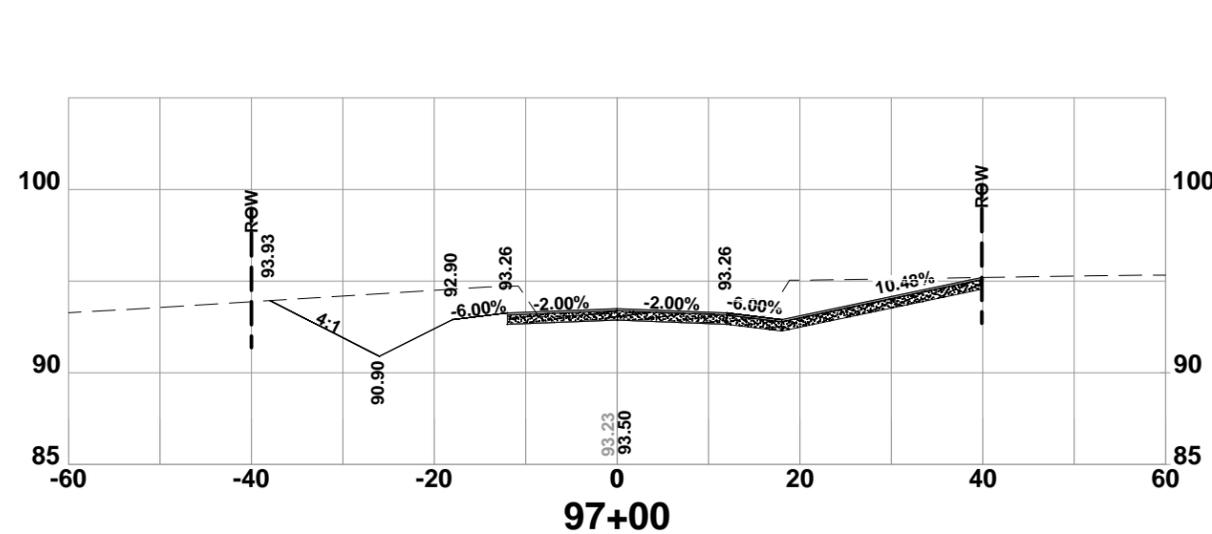
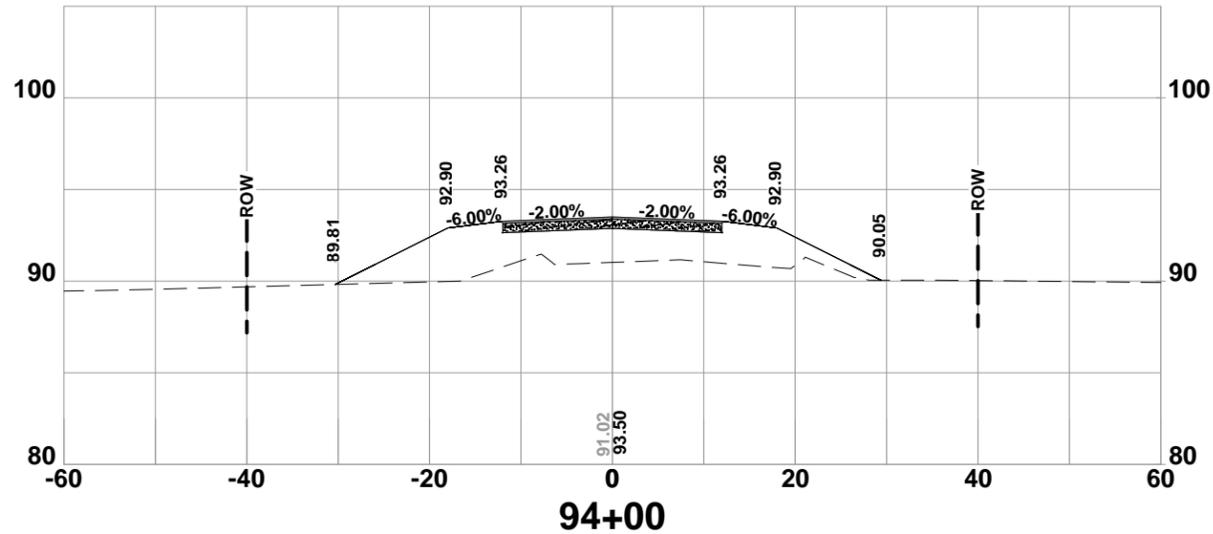
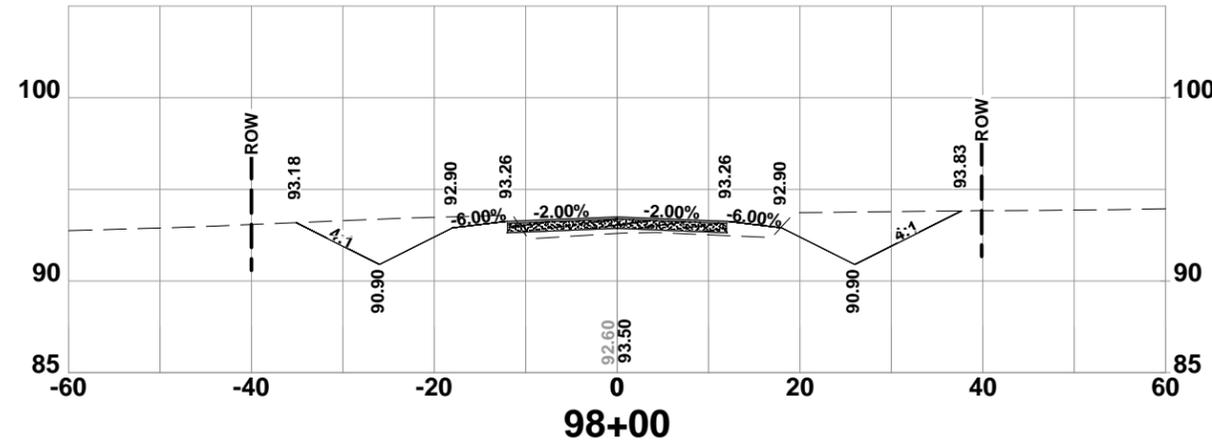
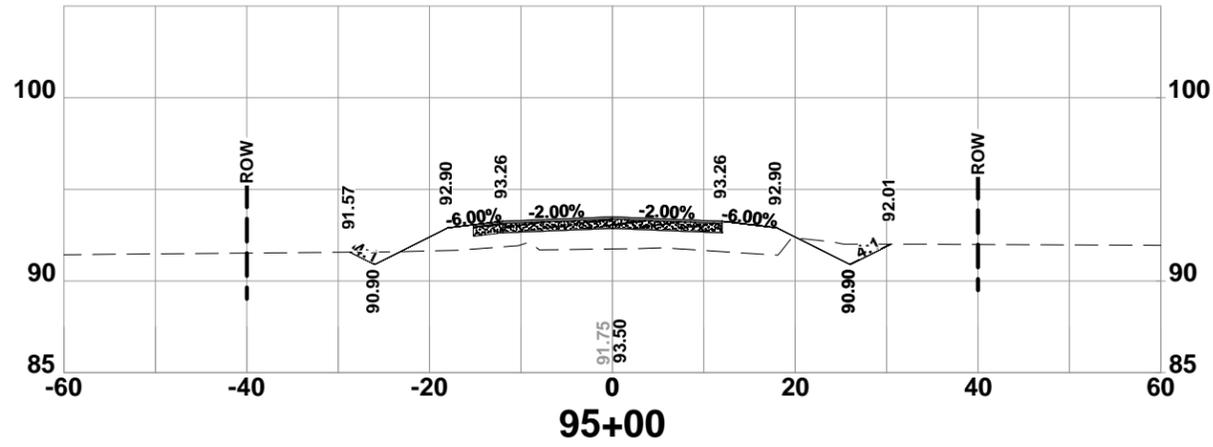


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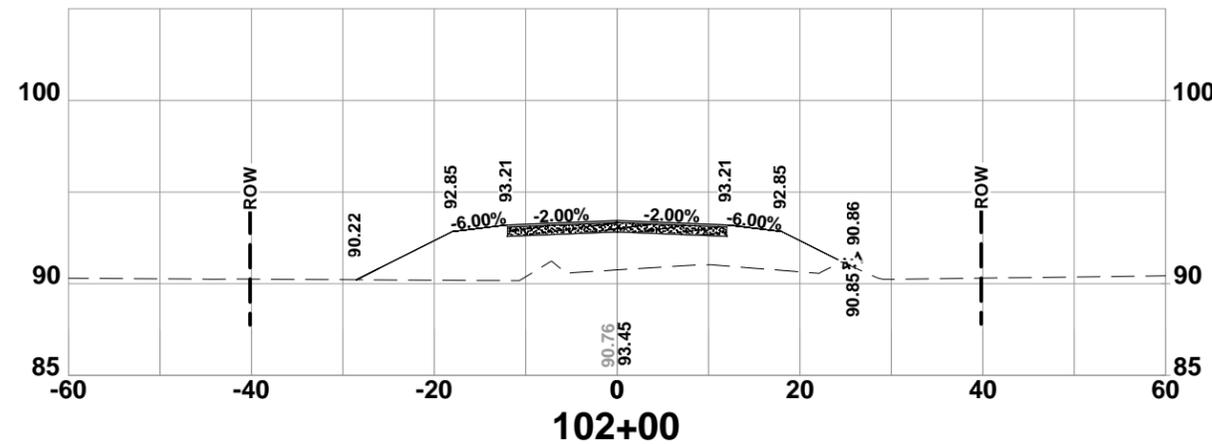
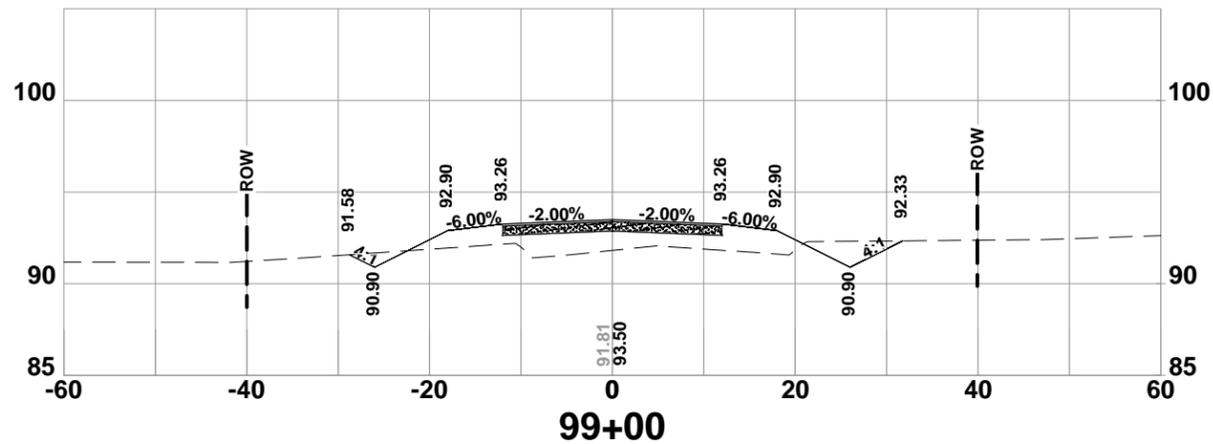
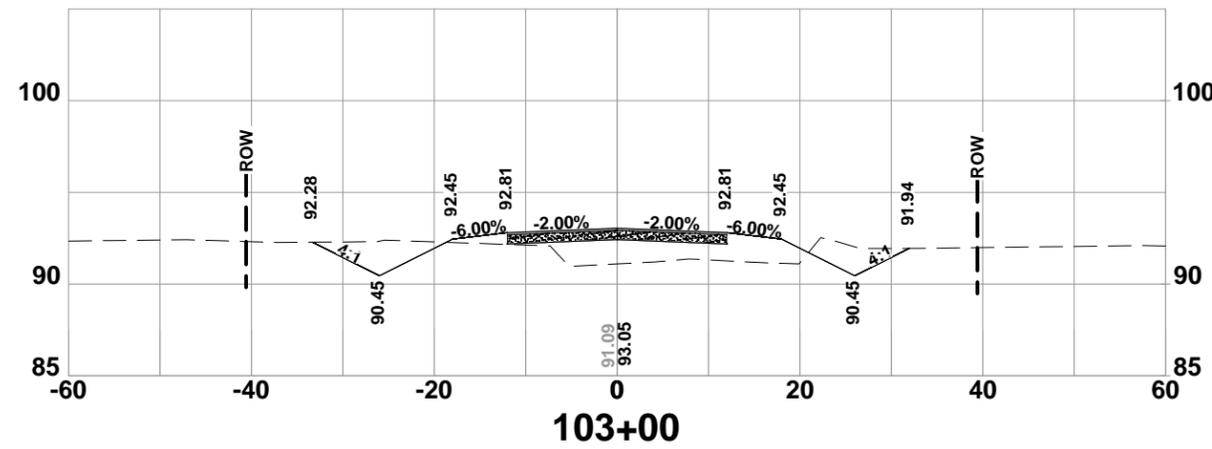
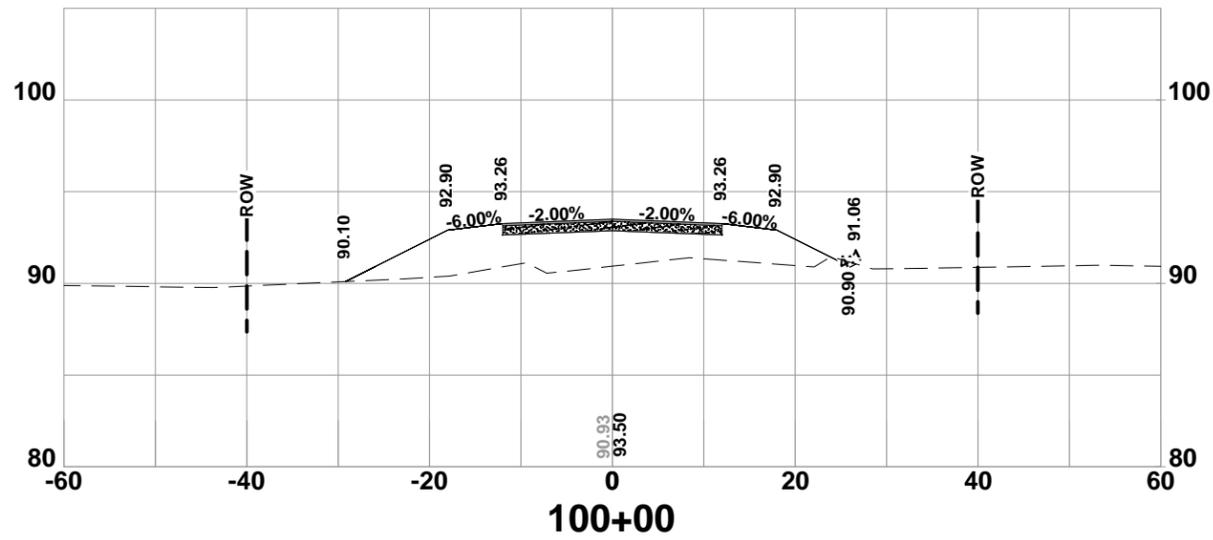
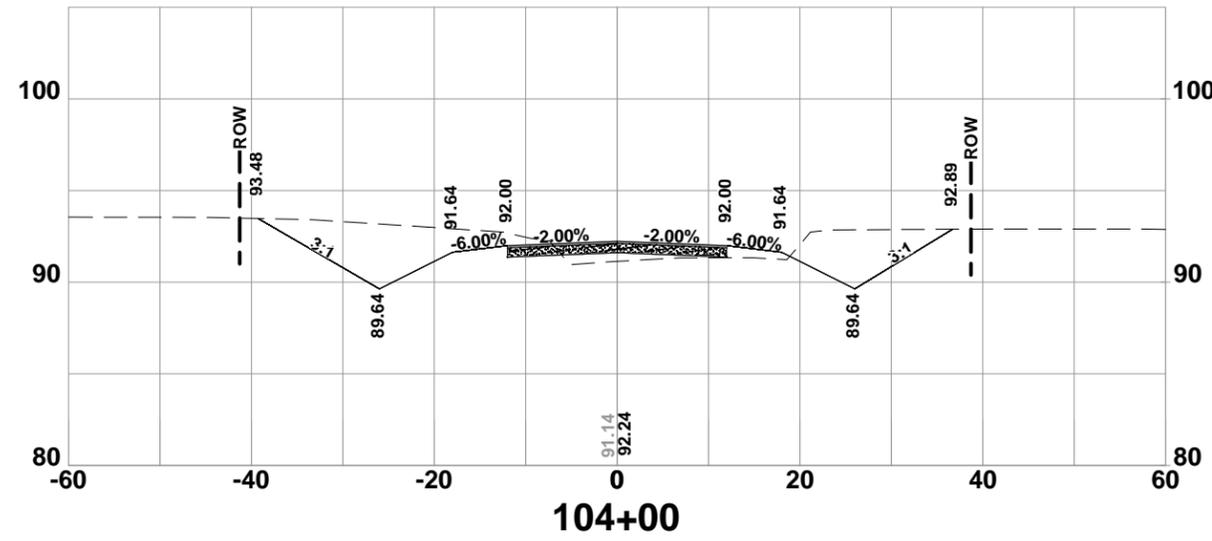
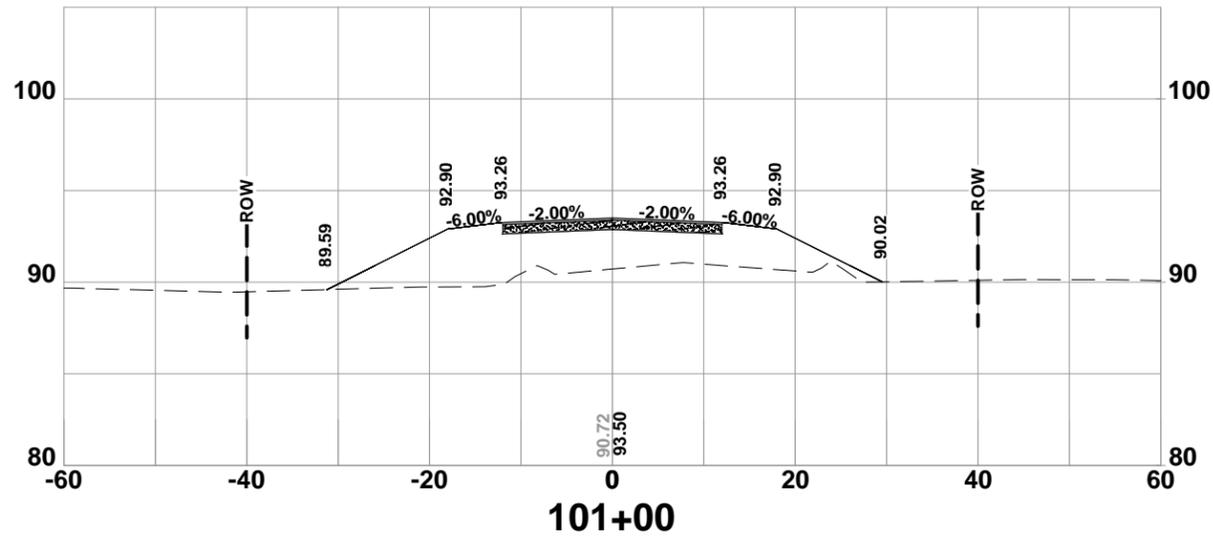
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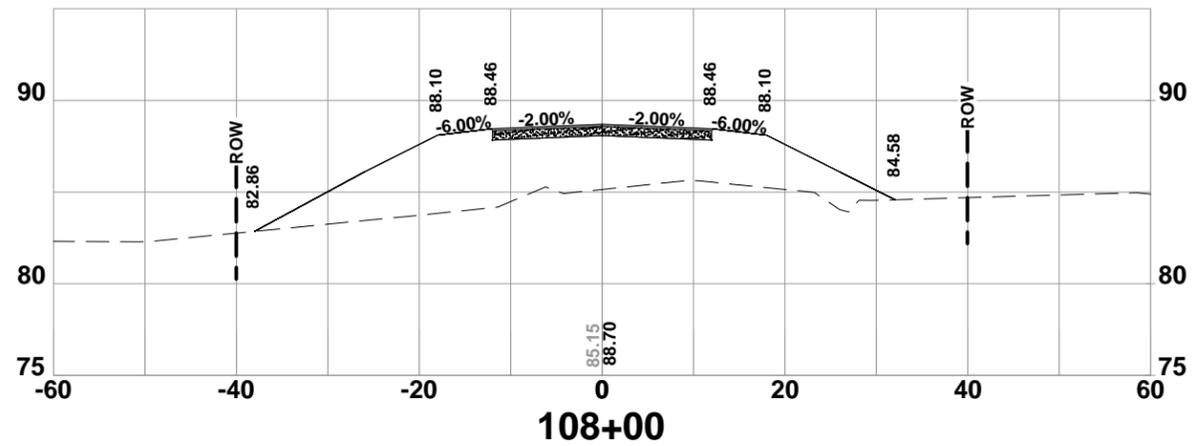
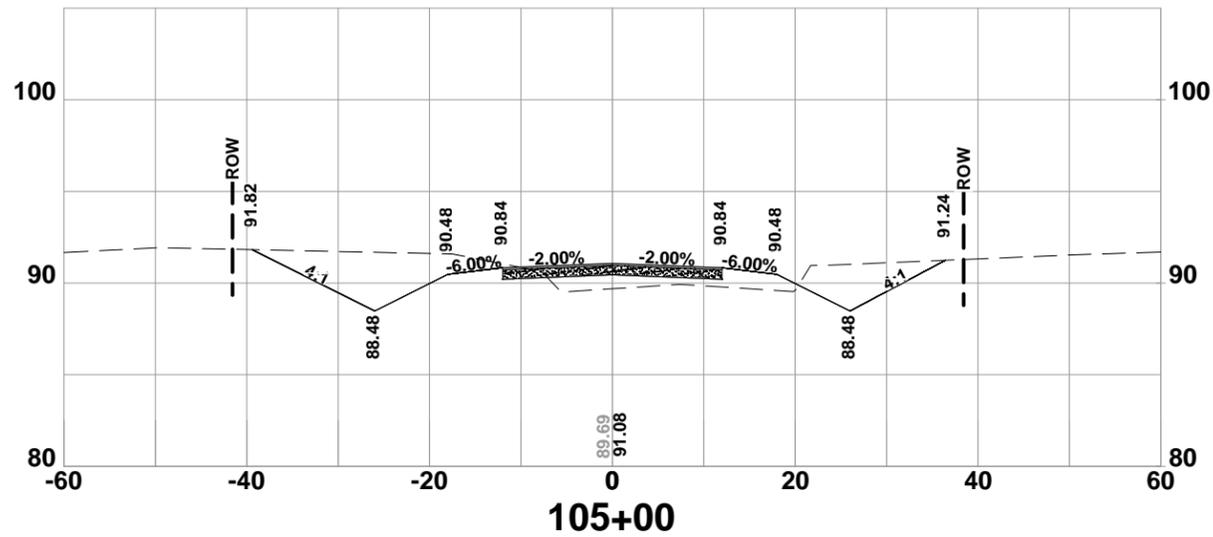
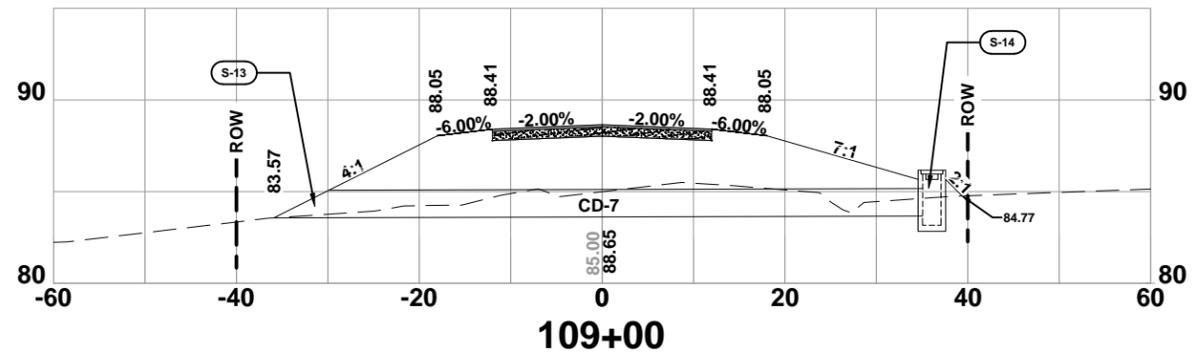
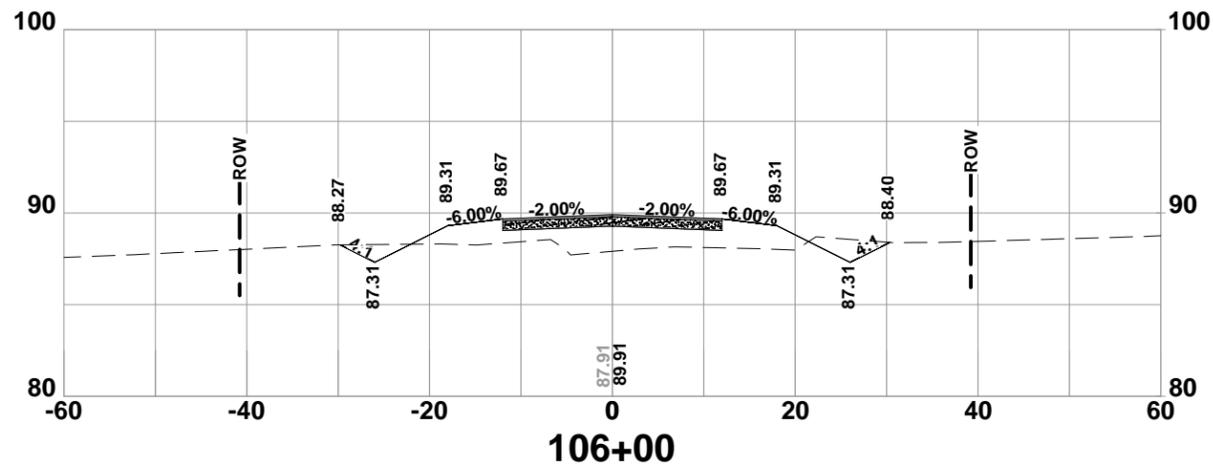
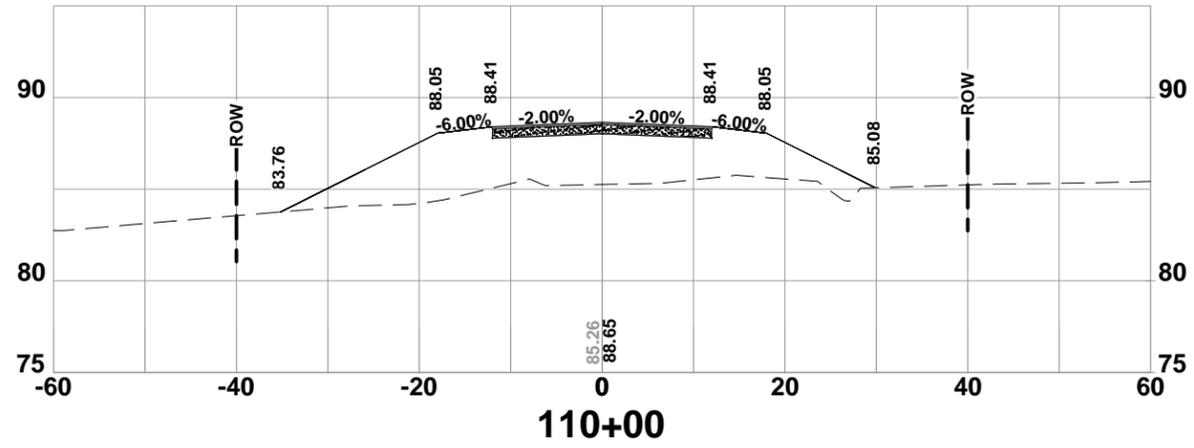
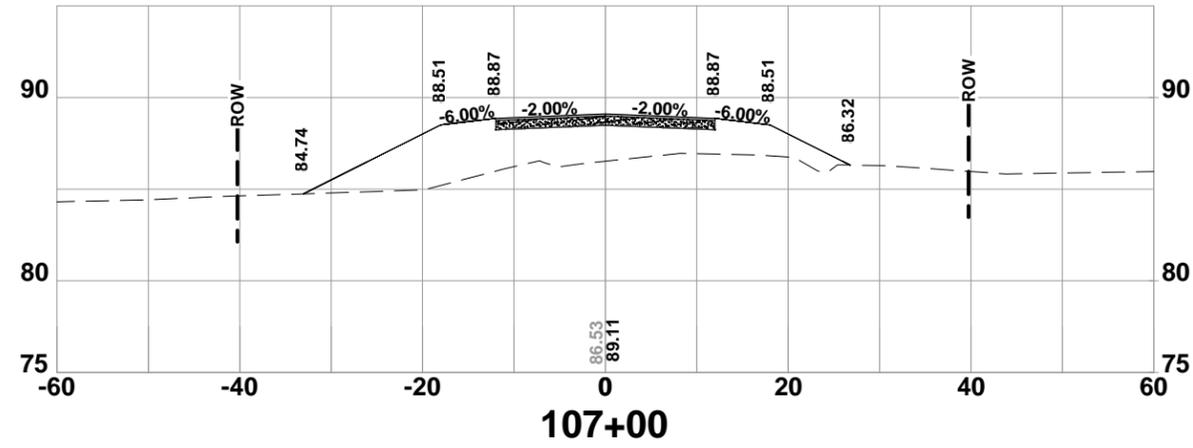
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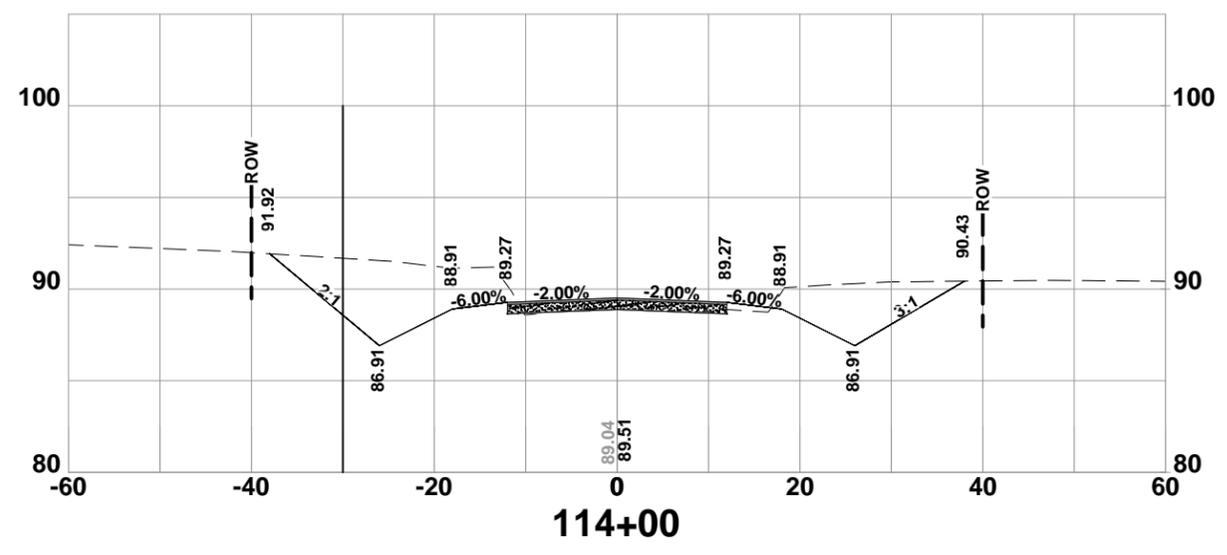
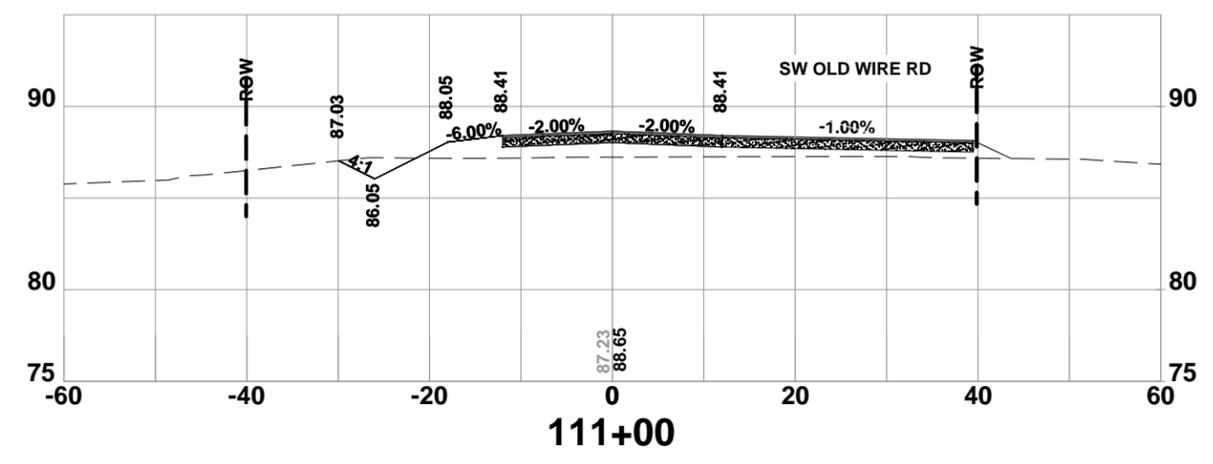
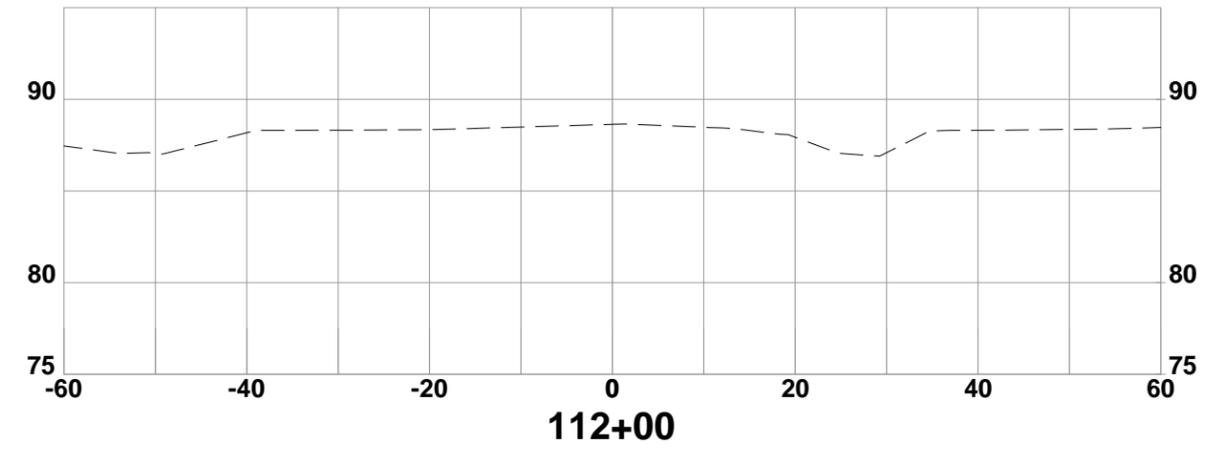
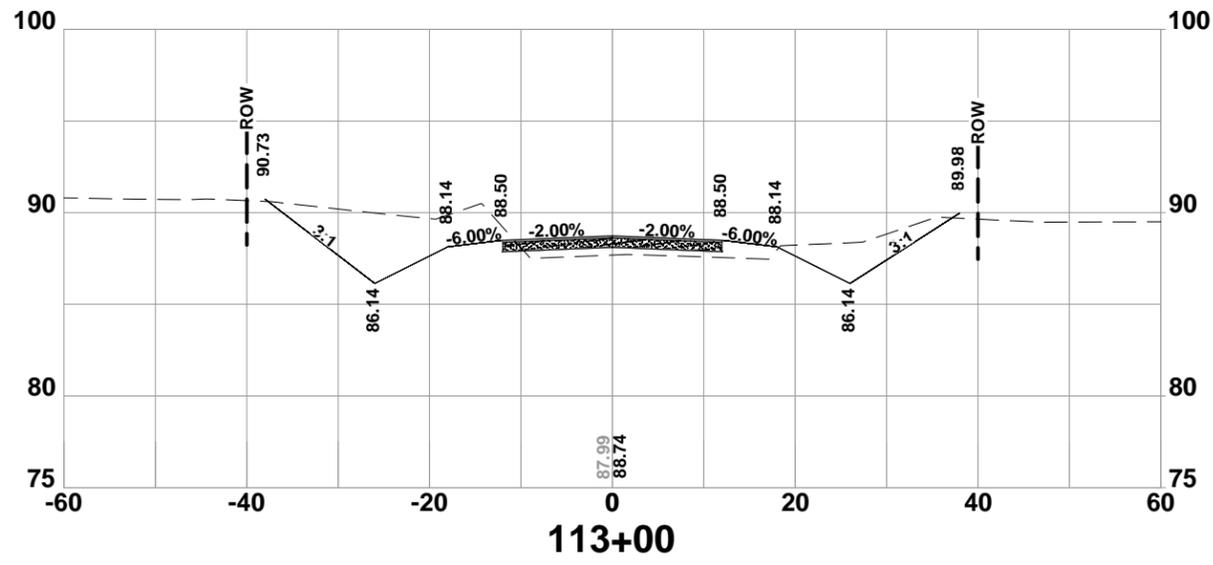
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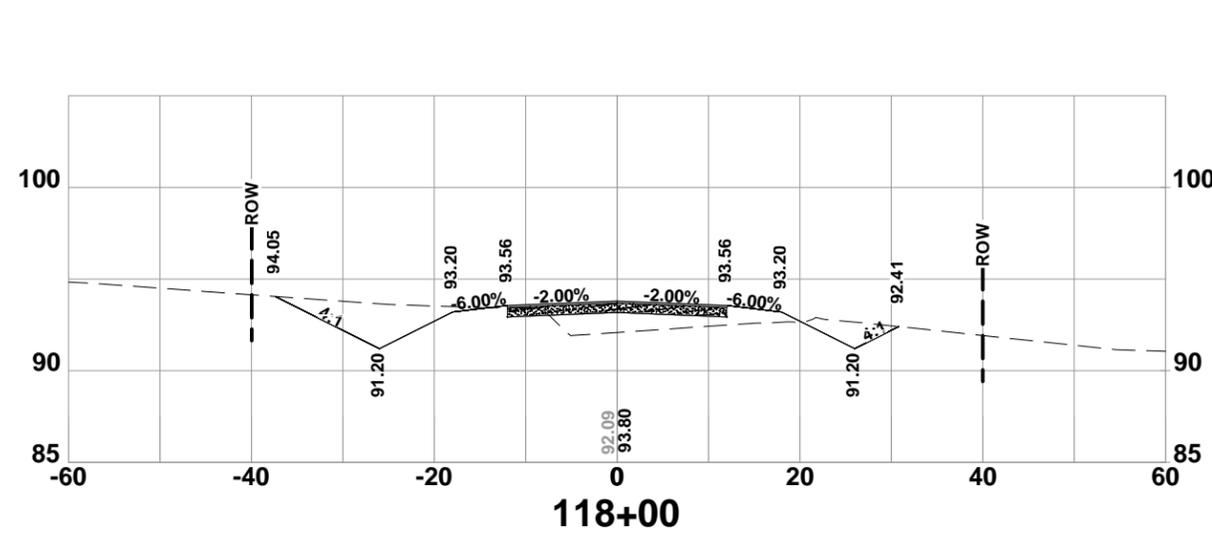
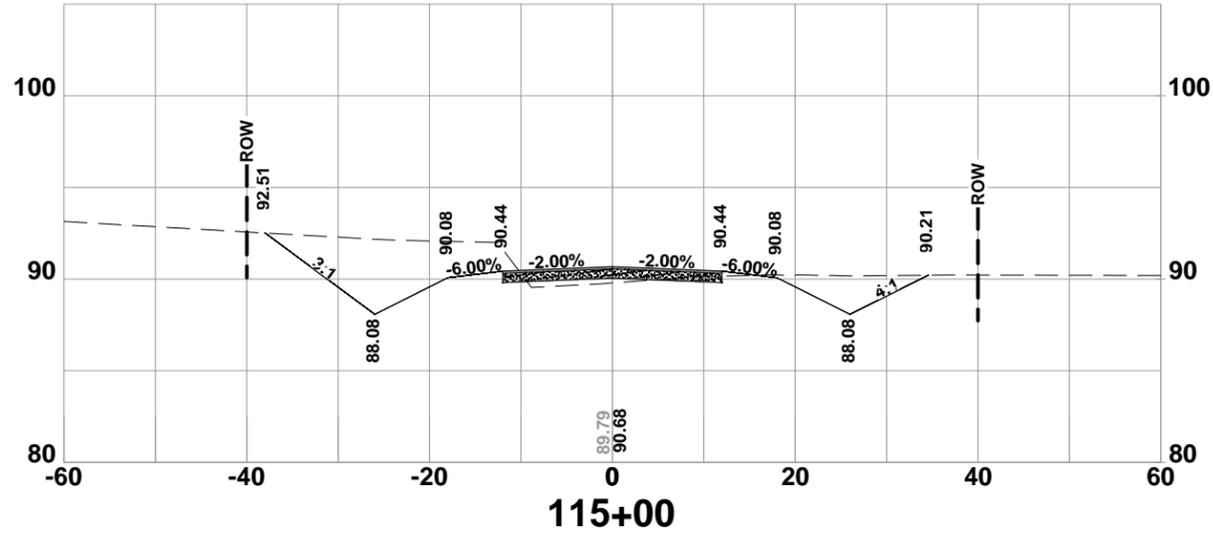
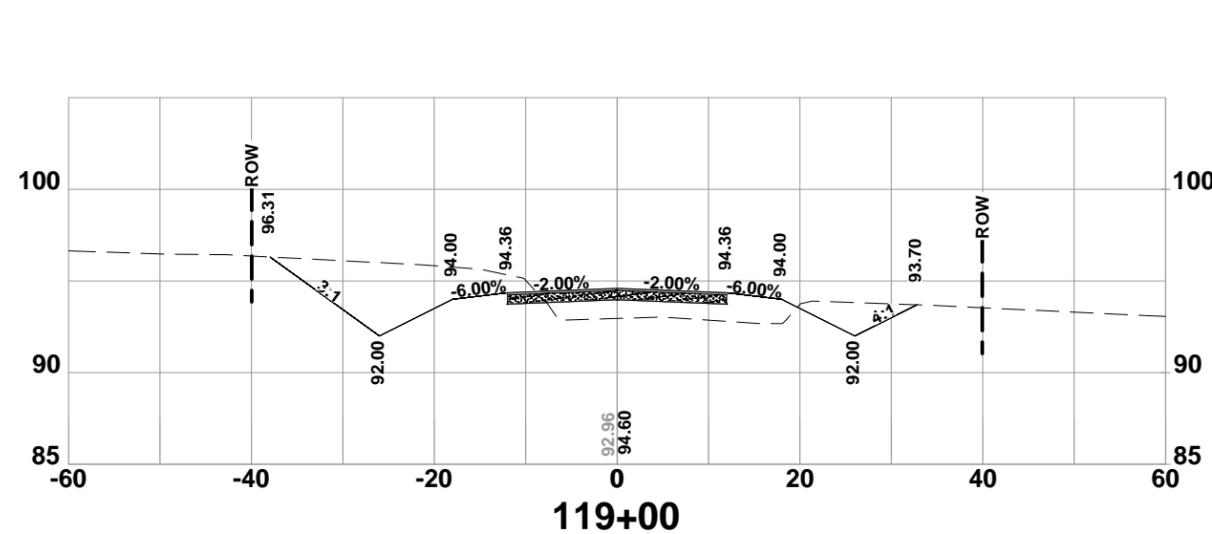
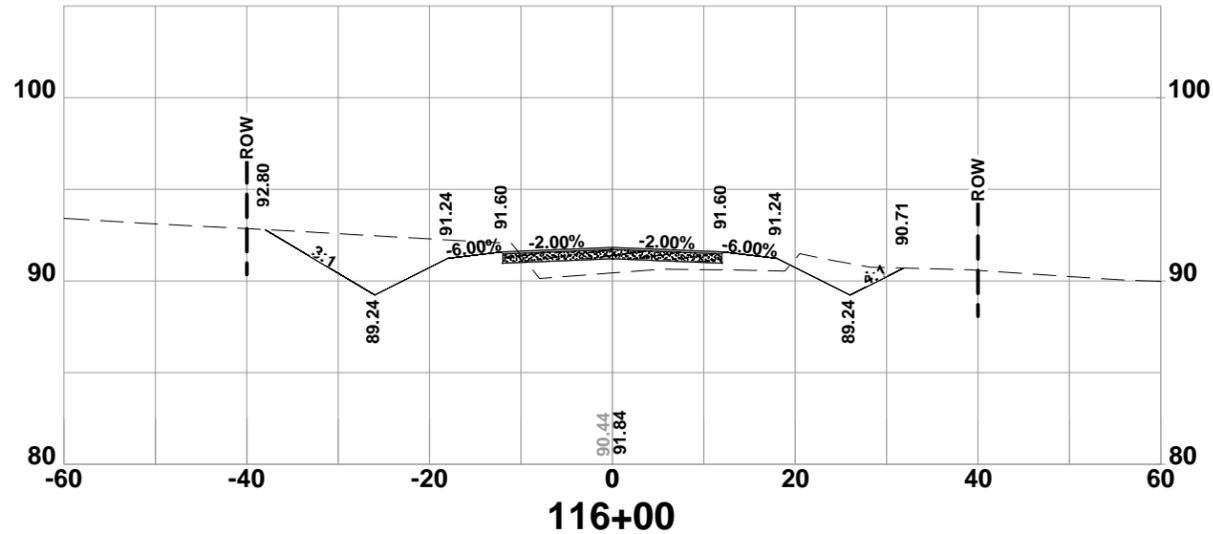
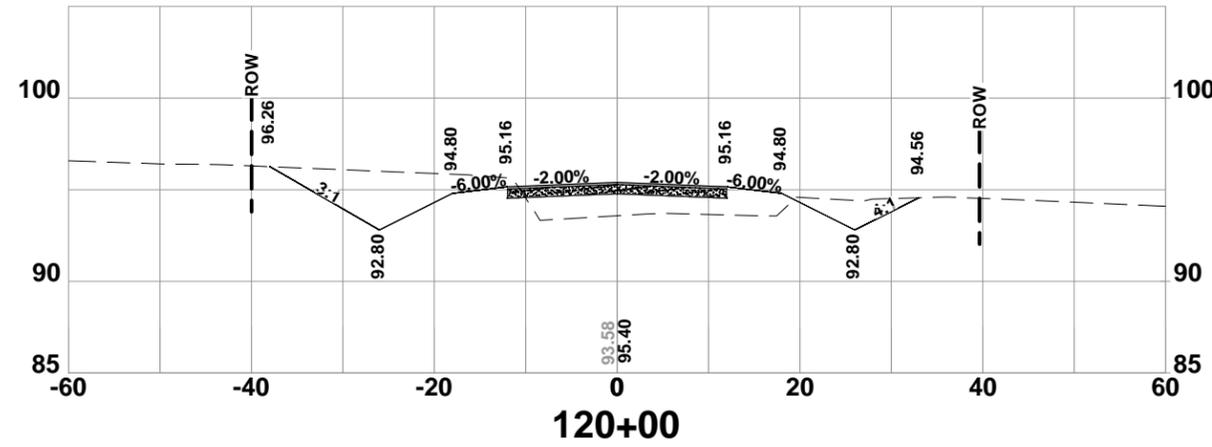
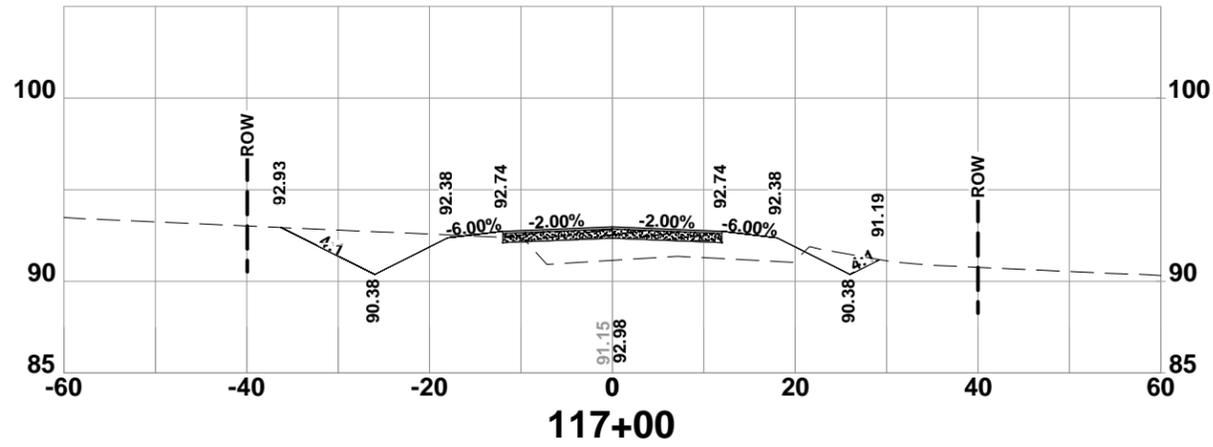
North Florida Professional Services, Inc.  
 P.O. BOX 3823  
 Tallahassee, FL 32318  
 Ph. 877-335-1525  
 Fax. 386-752-4674  
 Eng. Lic. 29011



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 P.O. BOX 3823  
 Tallahassee, FL 32318  
 Ph. 877-335-1525  
 Eng. Lic. 29011

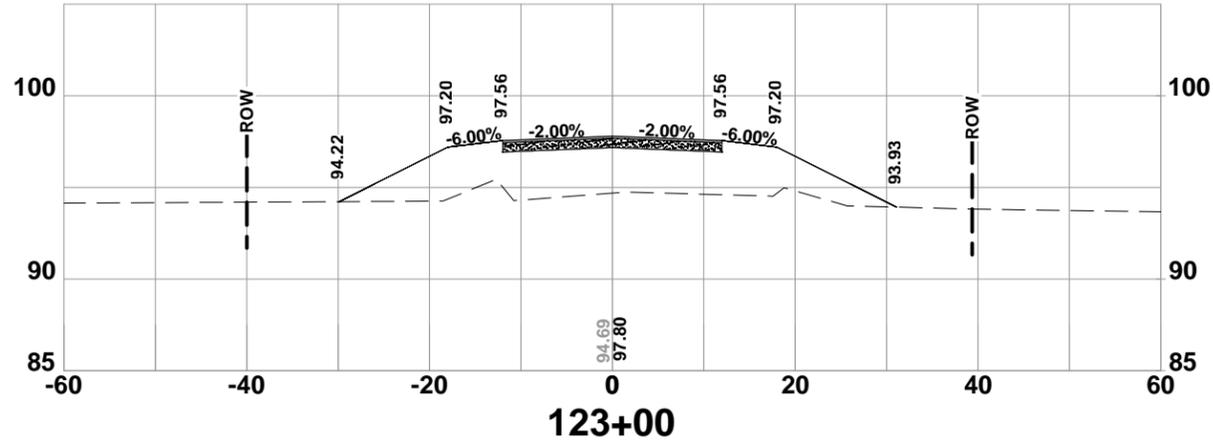


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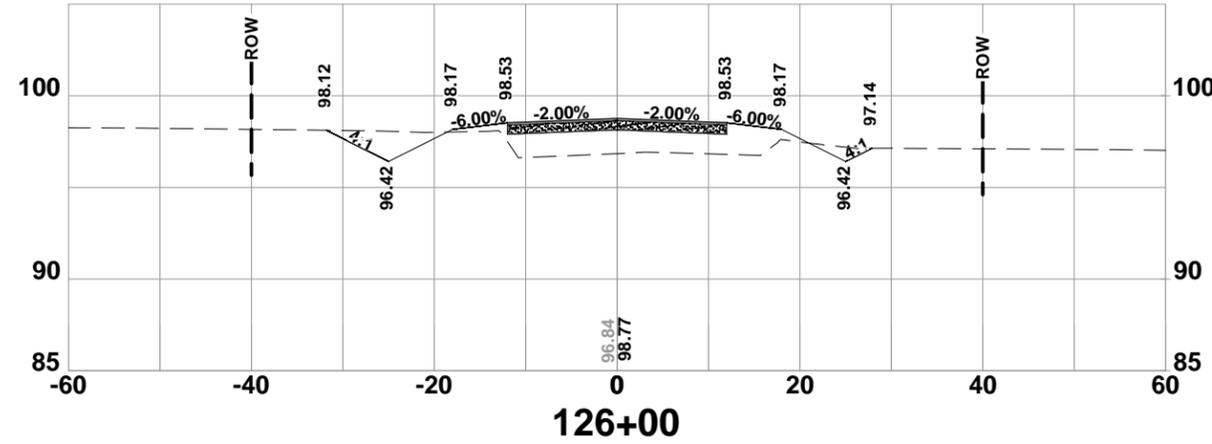
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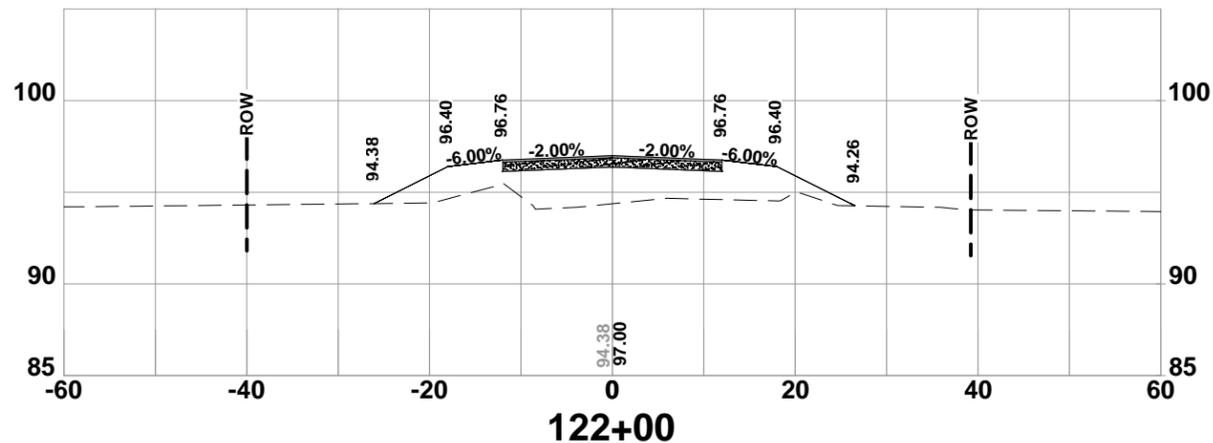
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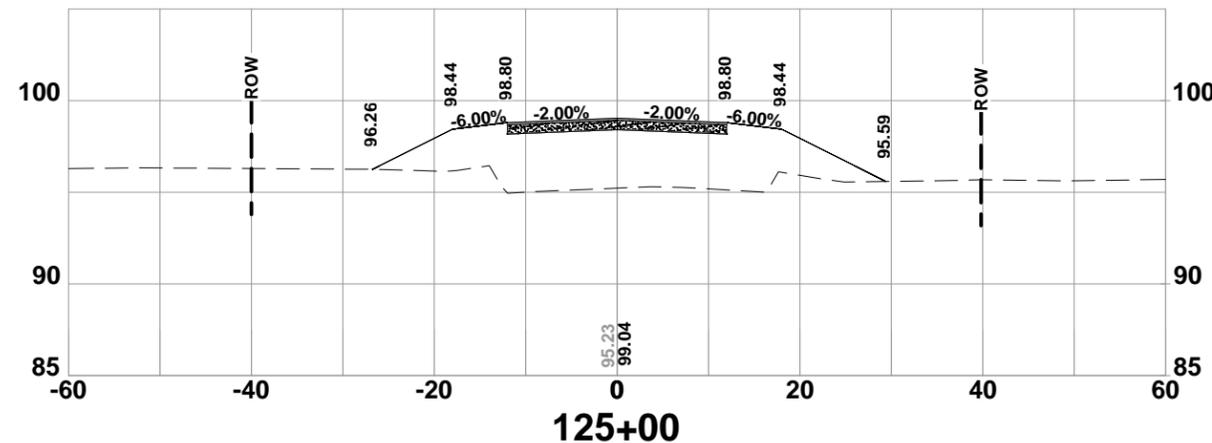
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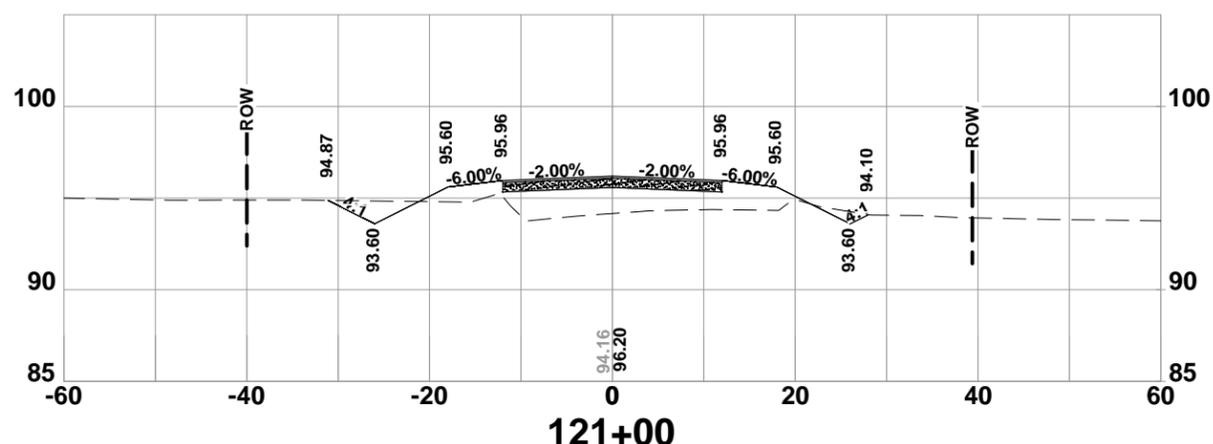
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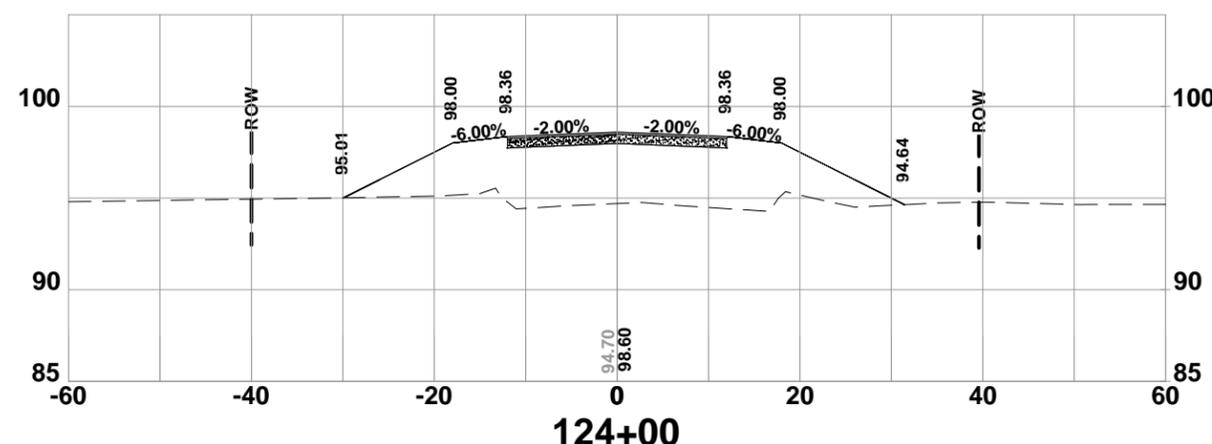
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125+00



121+00



124+00



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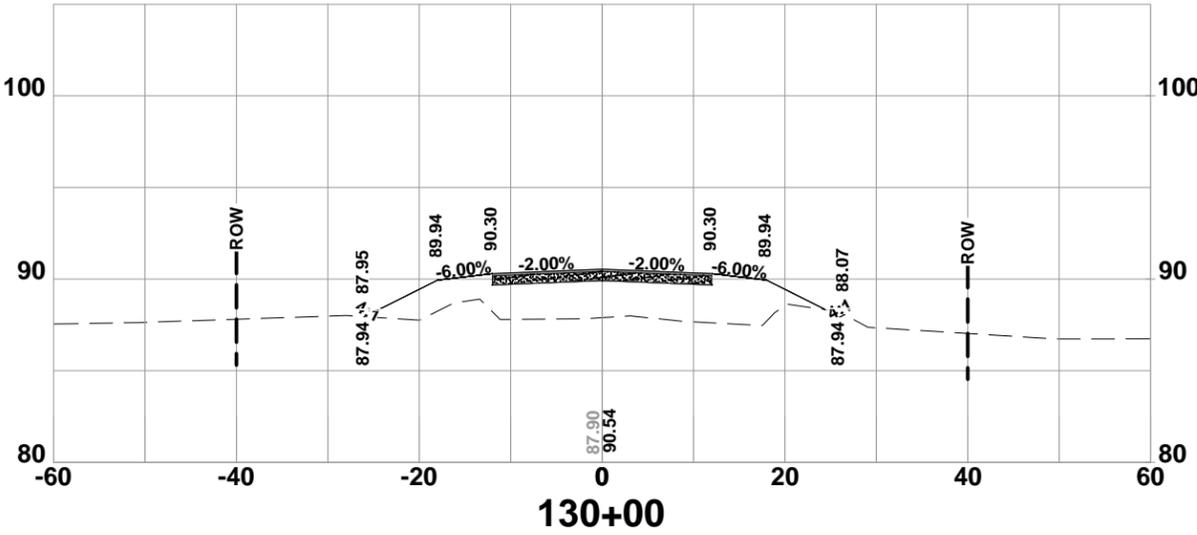
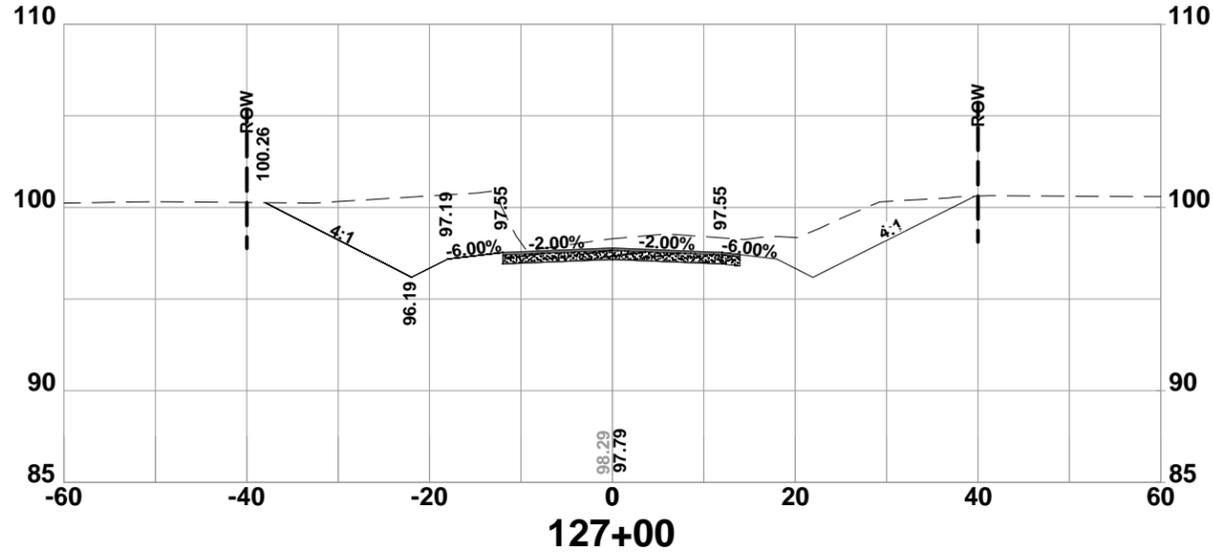
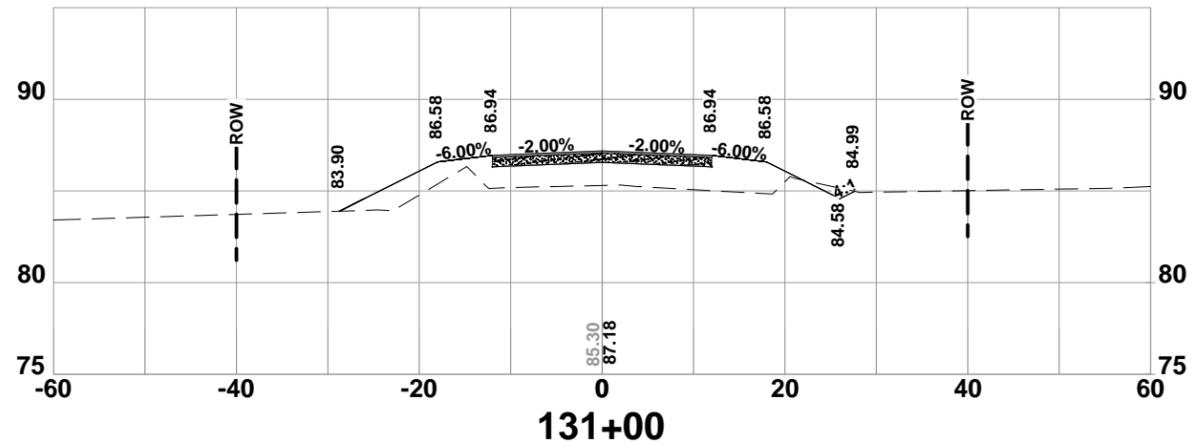
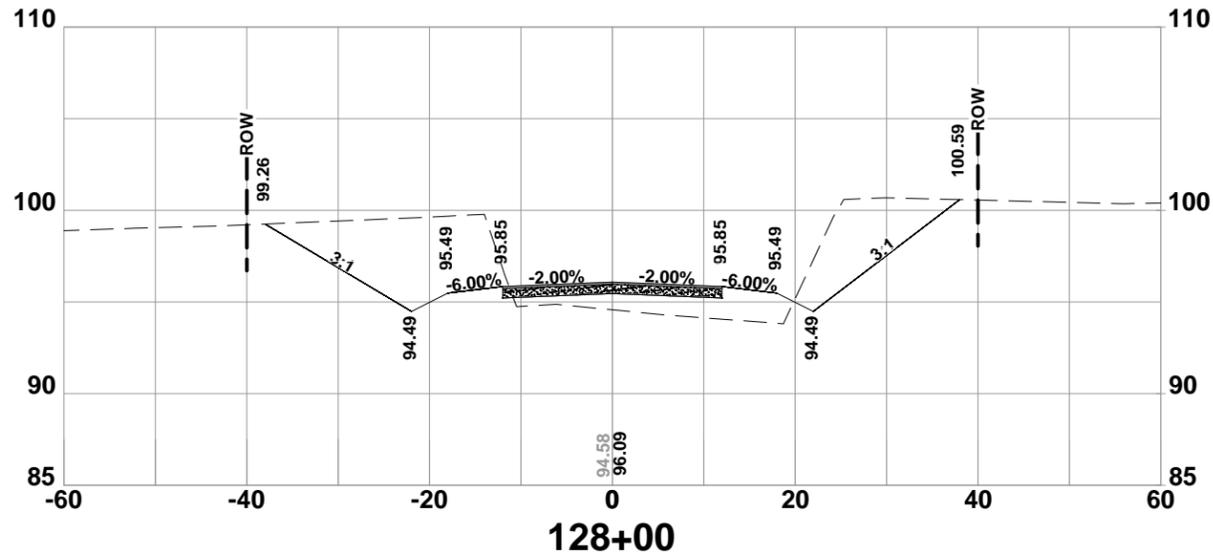
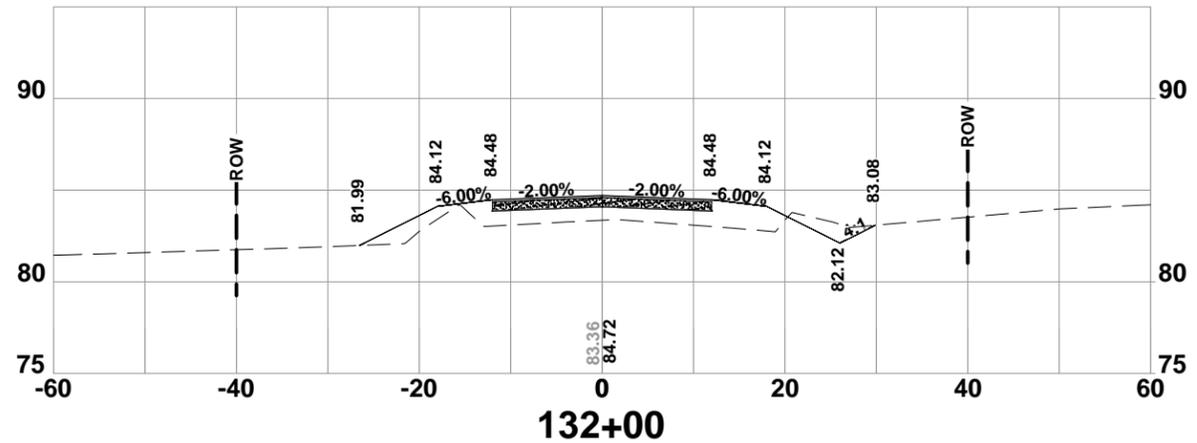
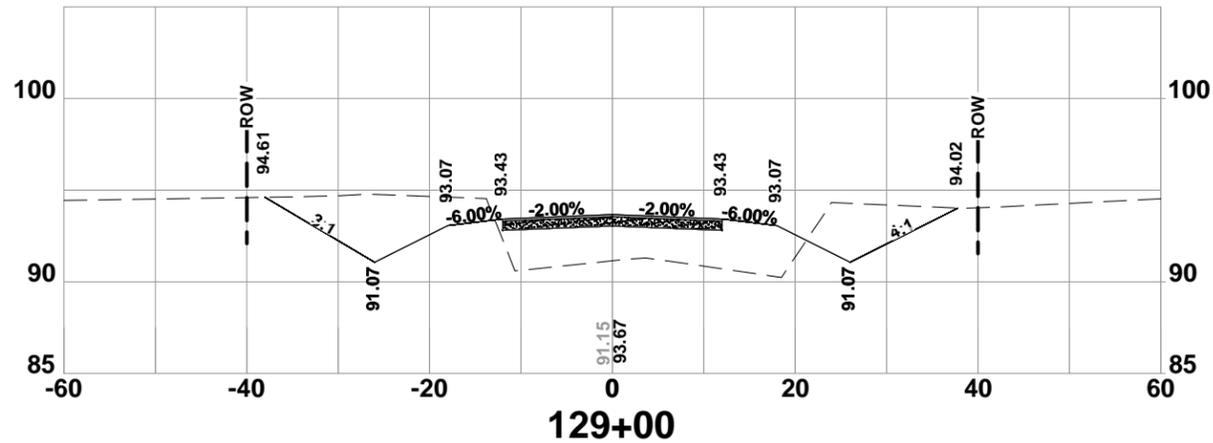
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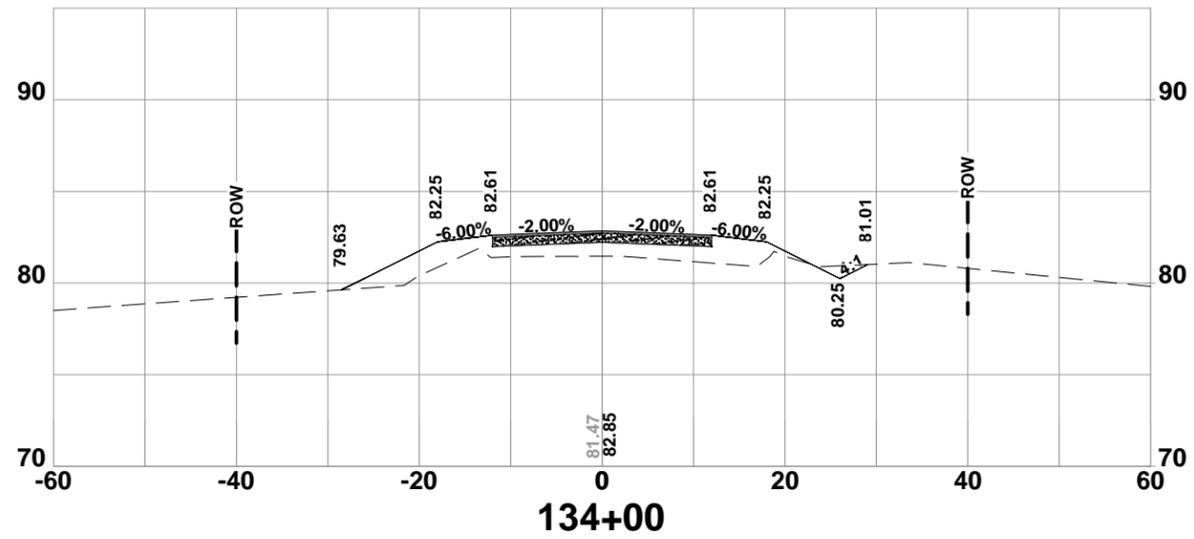
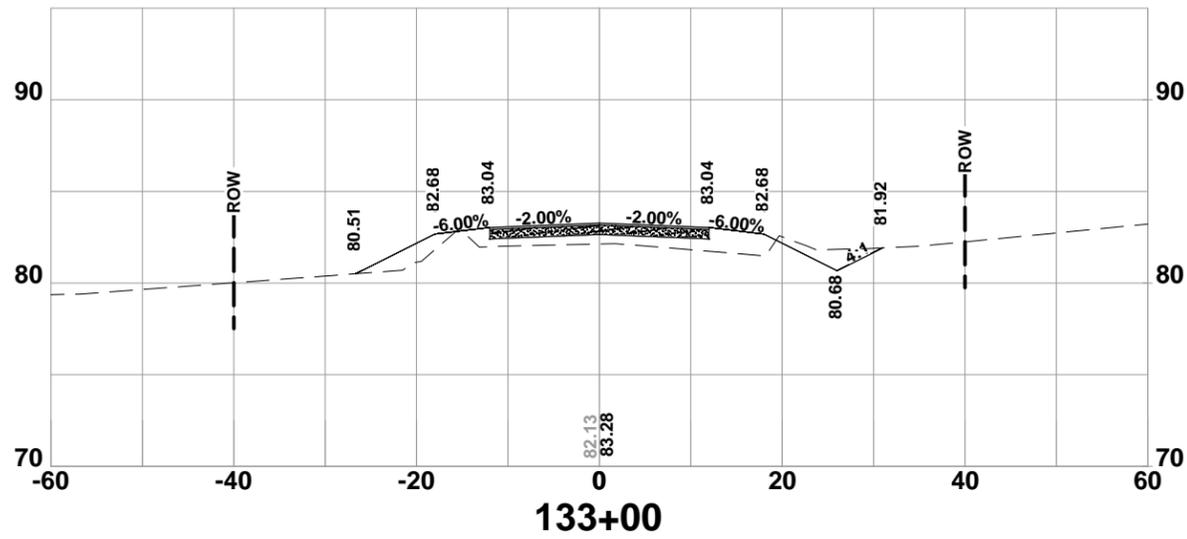
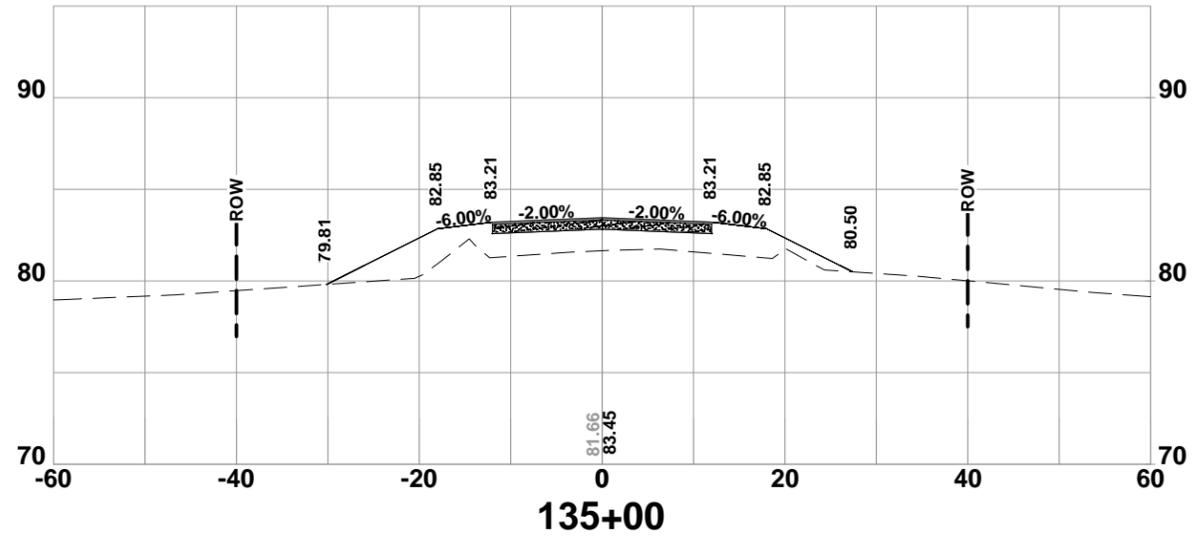
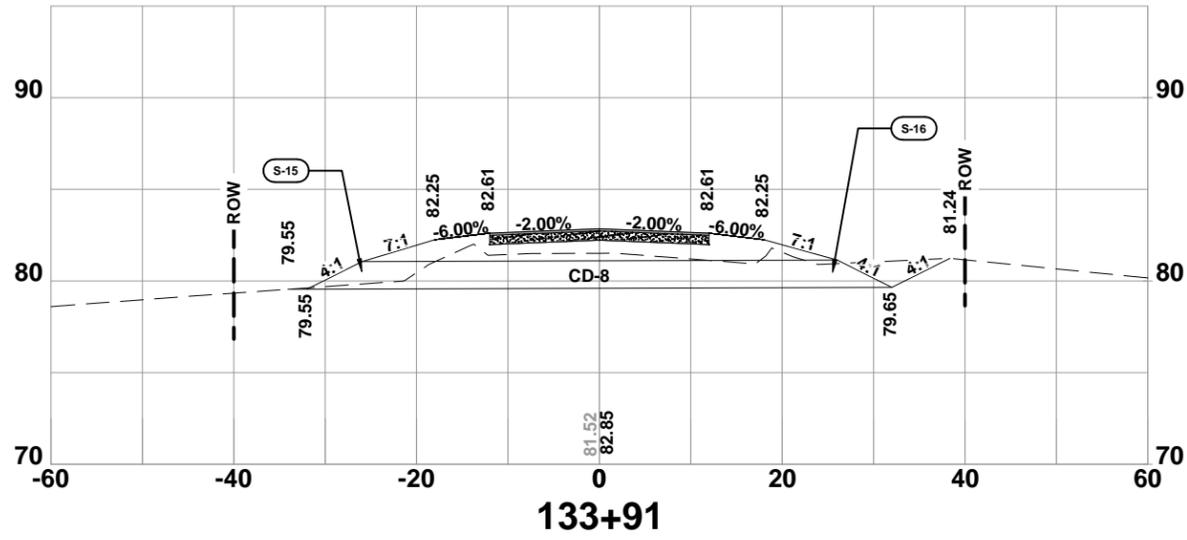


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 COLUMBIA COUNTY, FLORIDA

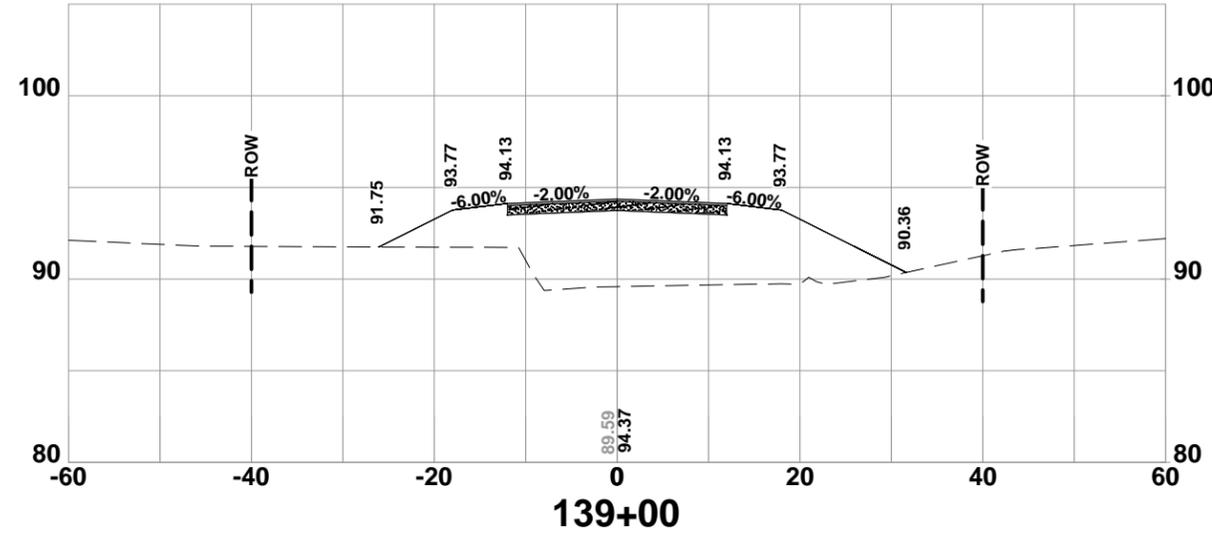
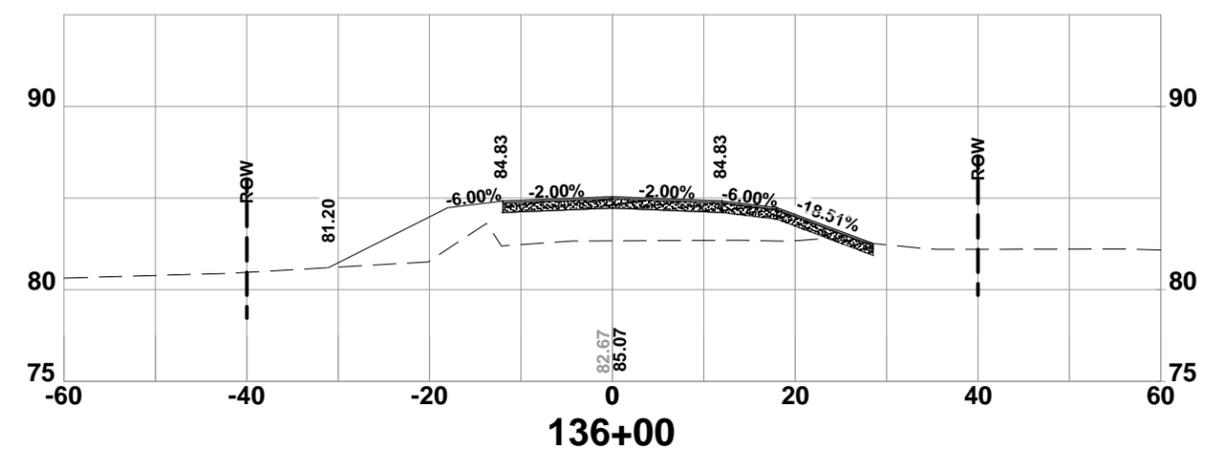
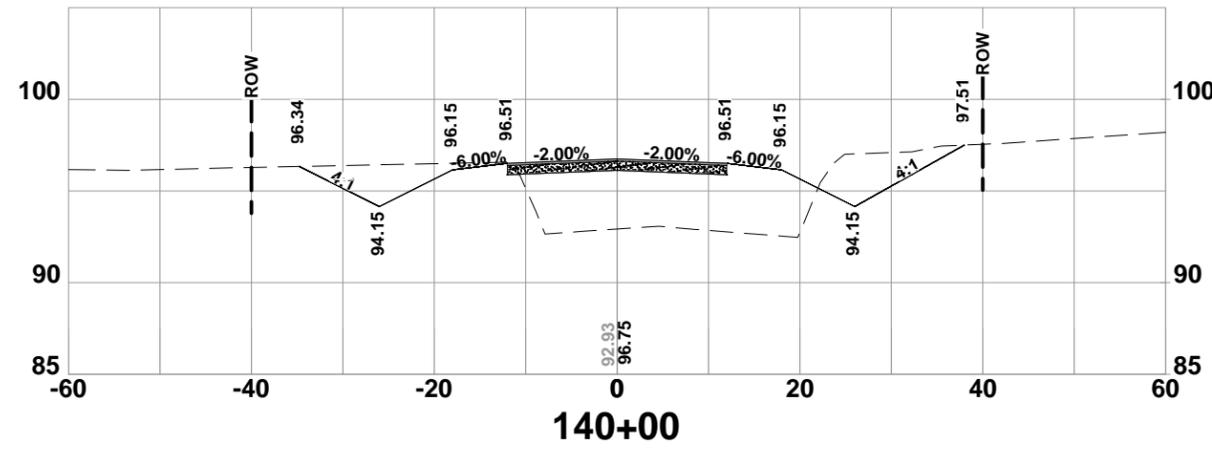
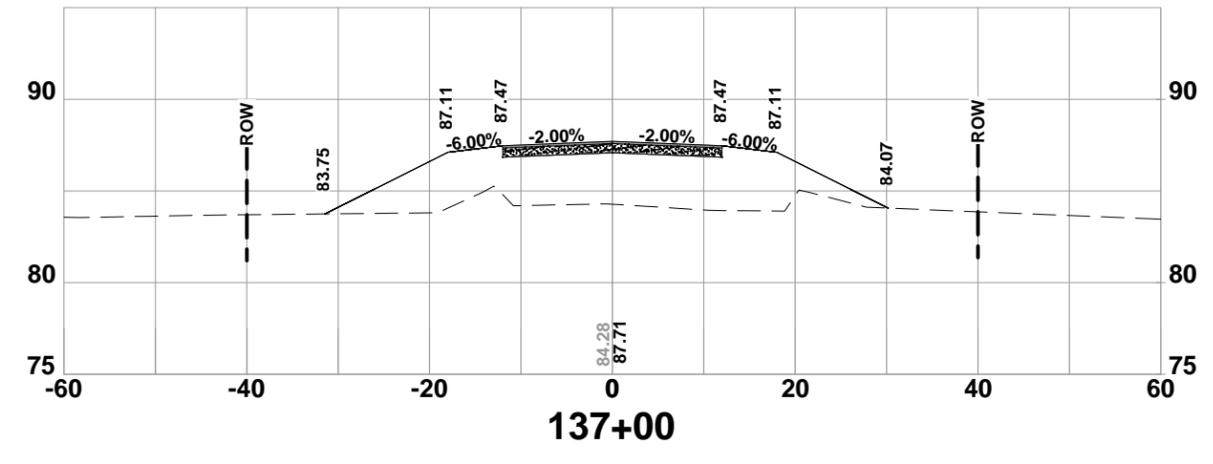
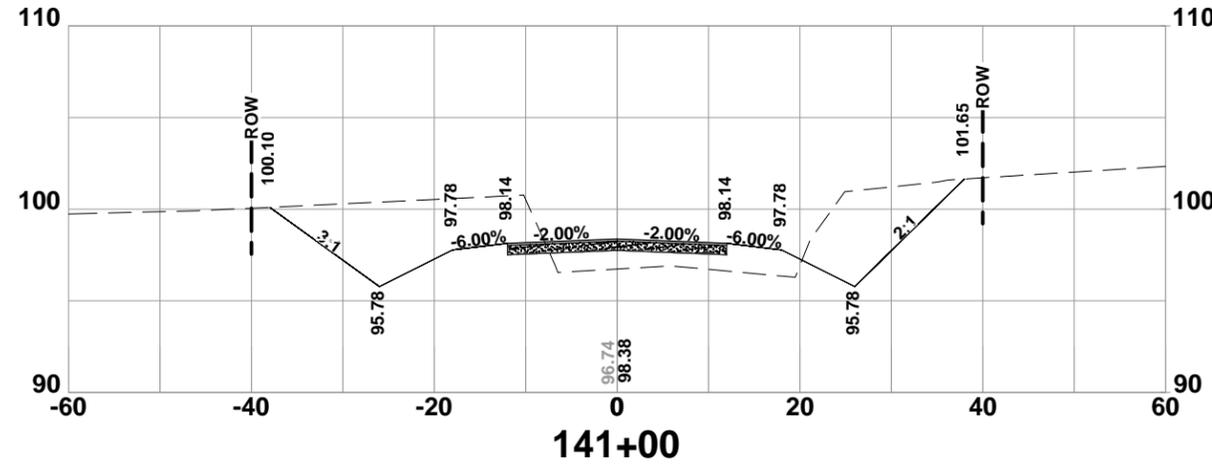
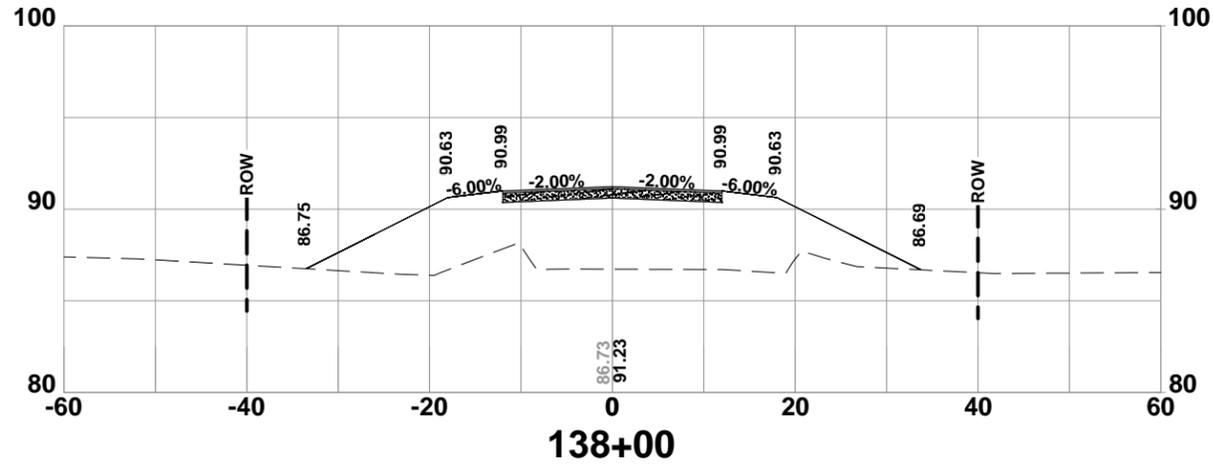
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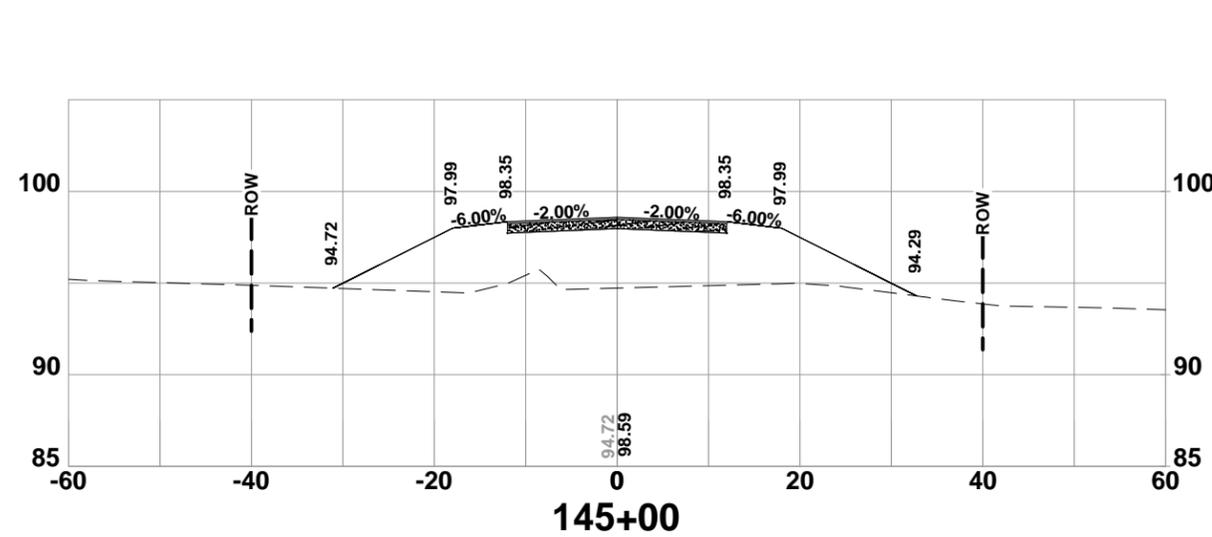
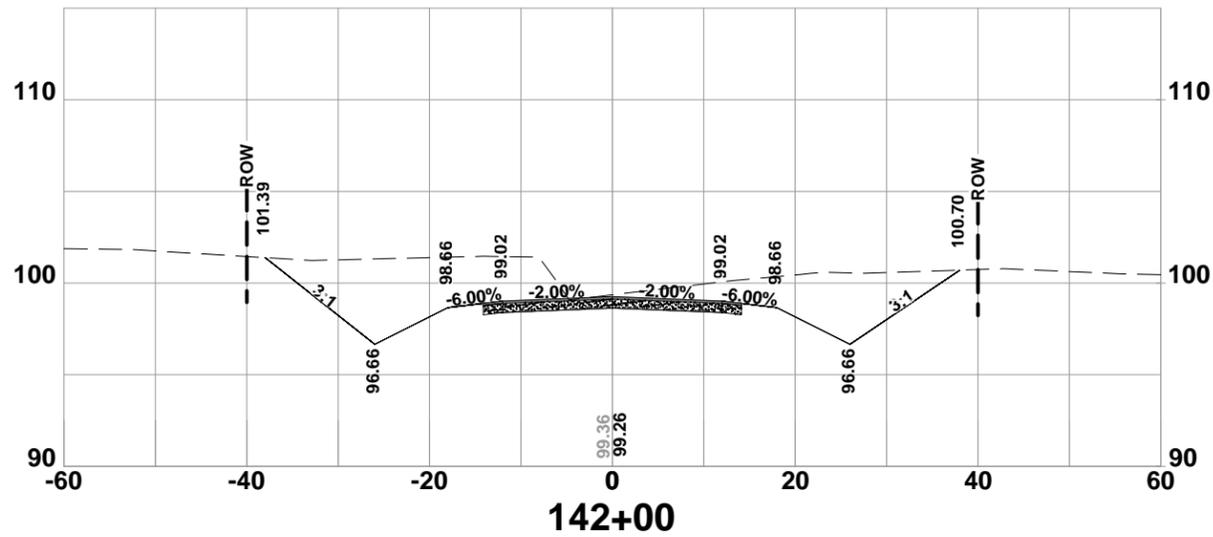
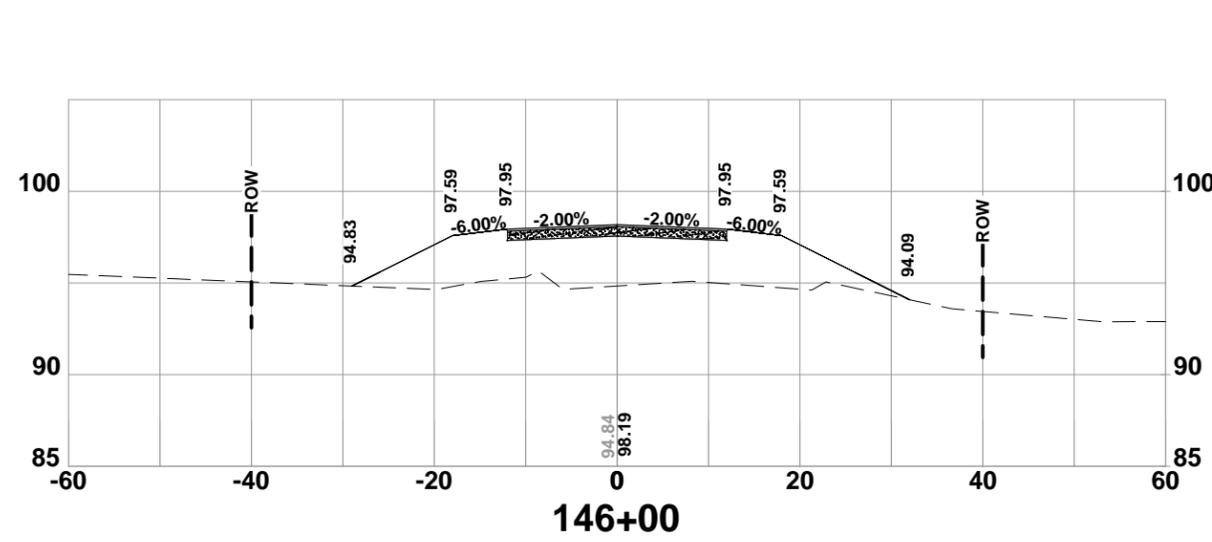
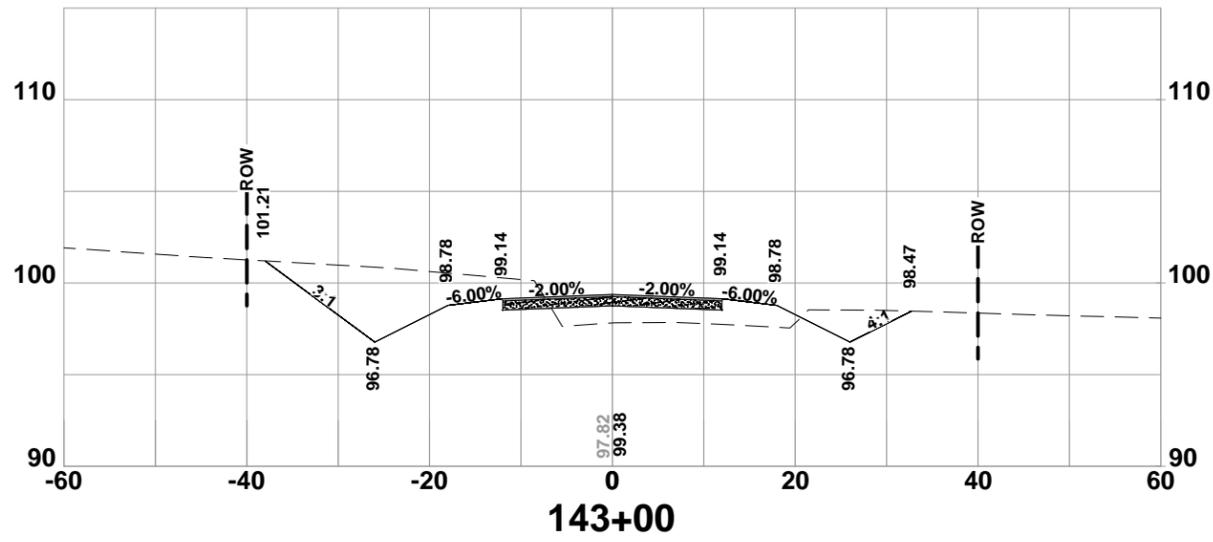
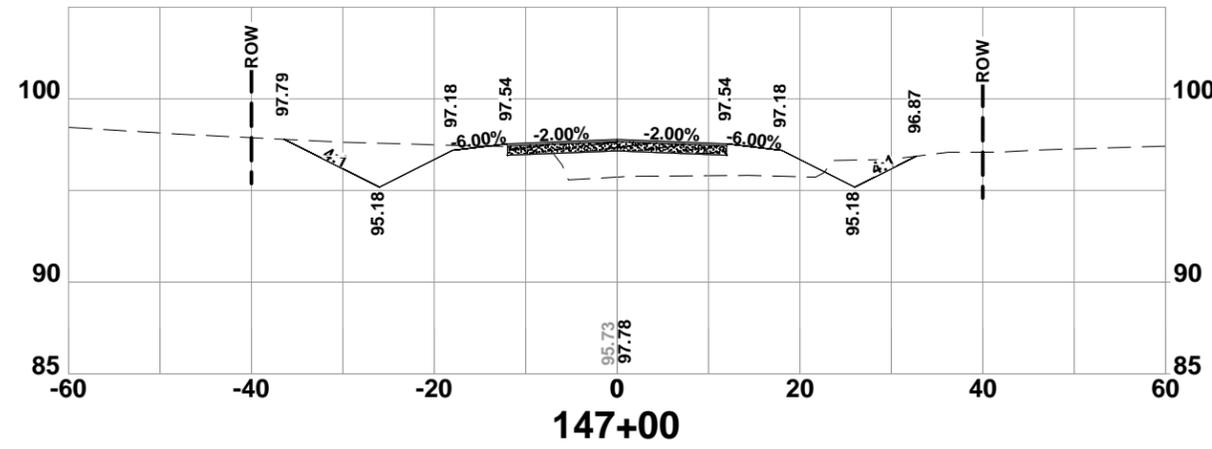
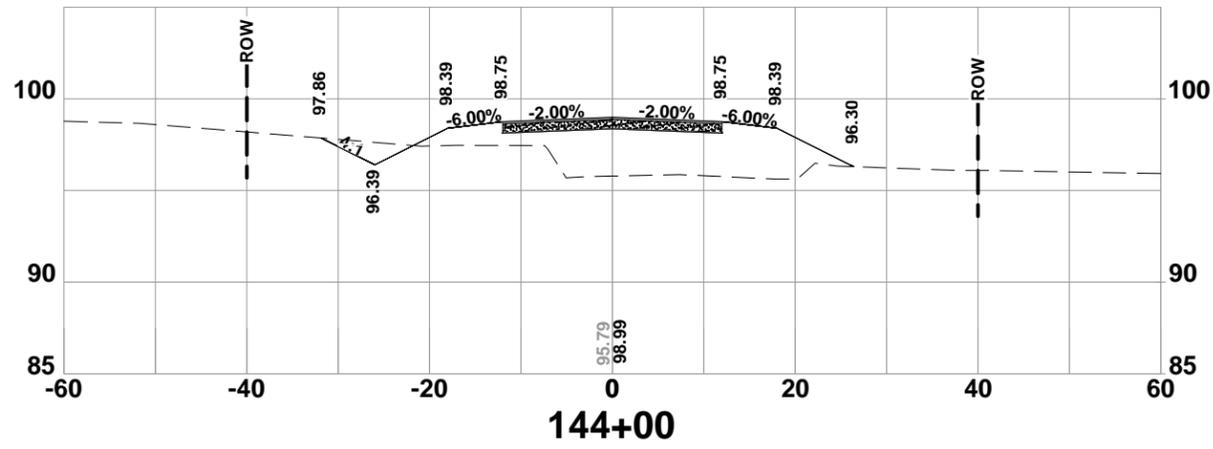
North Florida Professional Services, Inc.  
 P.O. BOX 3823  
 Tallahassee, FL 32318  
 Lake City, FL 32025  
 Ph. 877-335-1525  
 Fax. 386-752-4674  
 Eng. Lic. 29011

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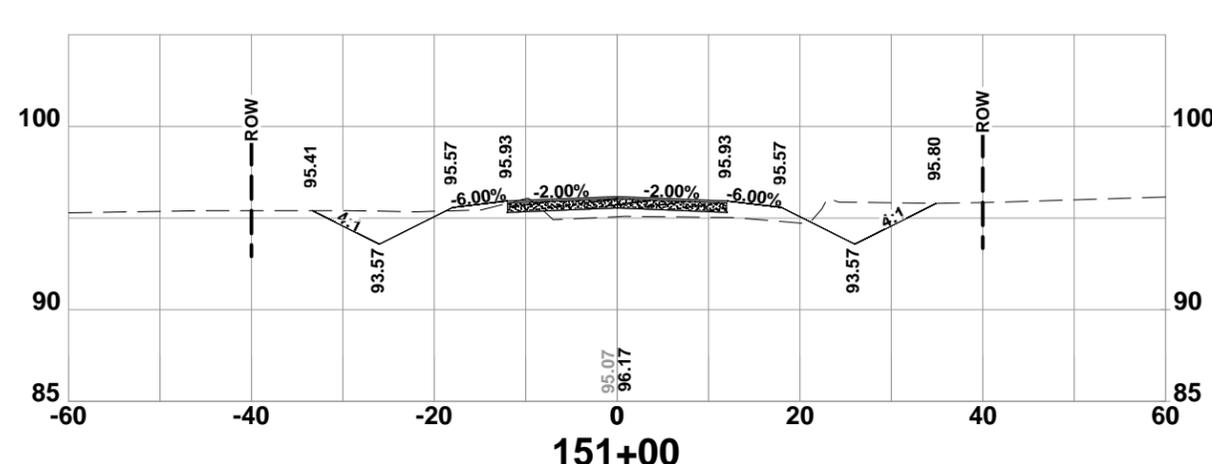
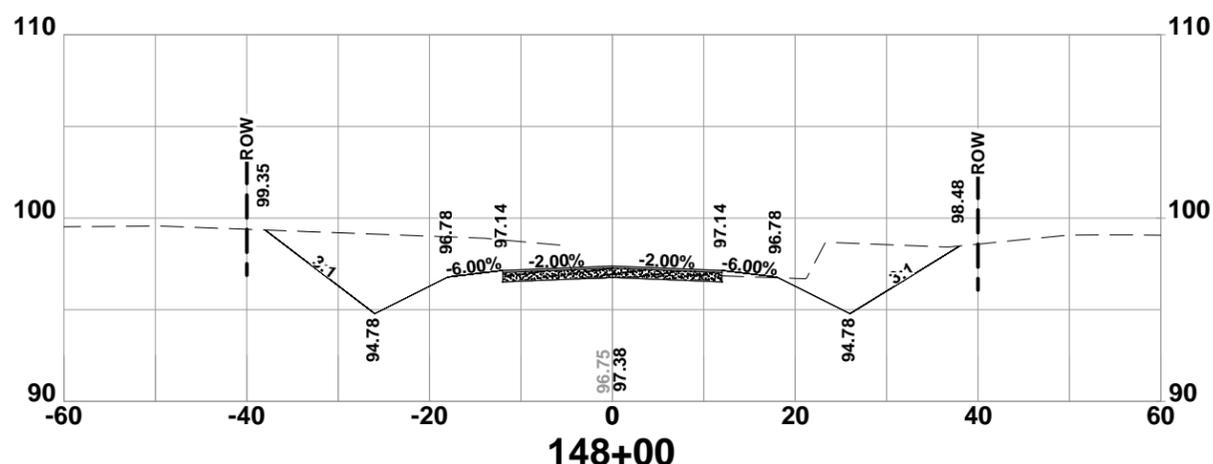
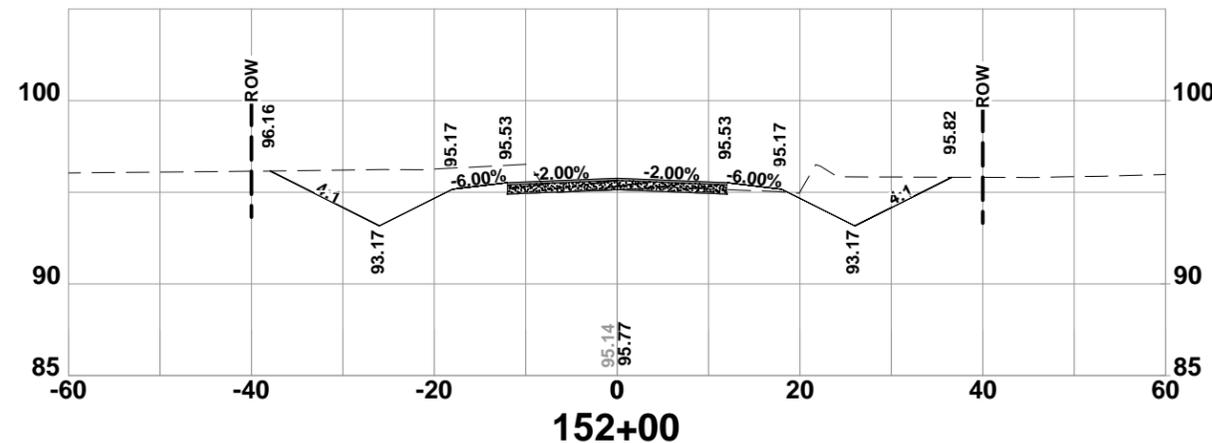
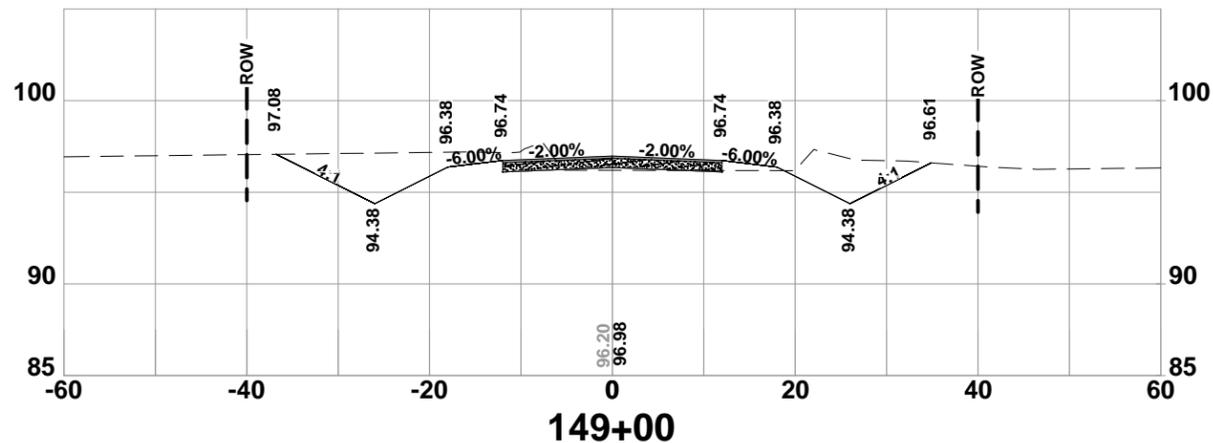
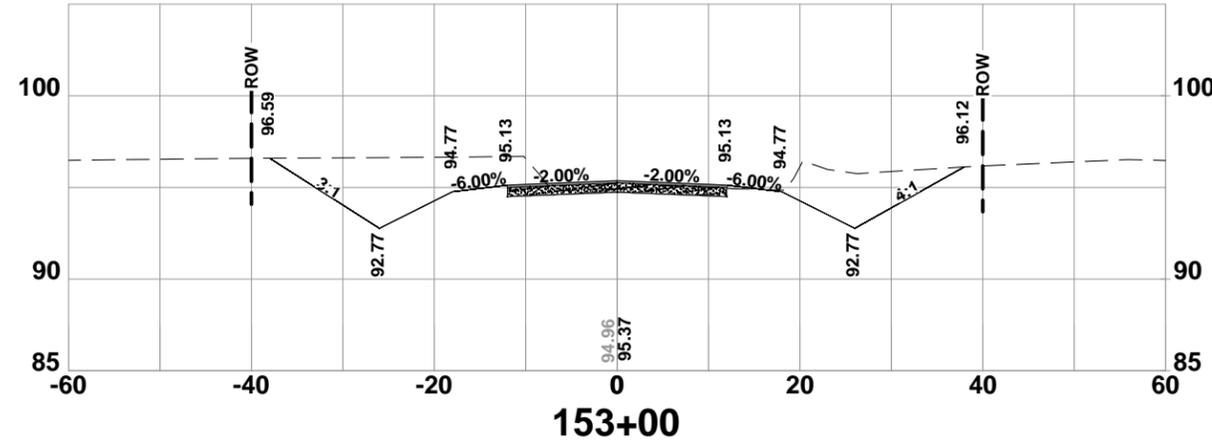
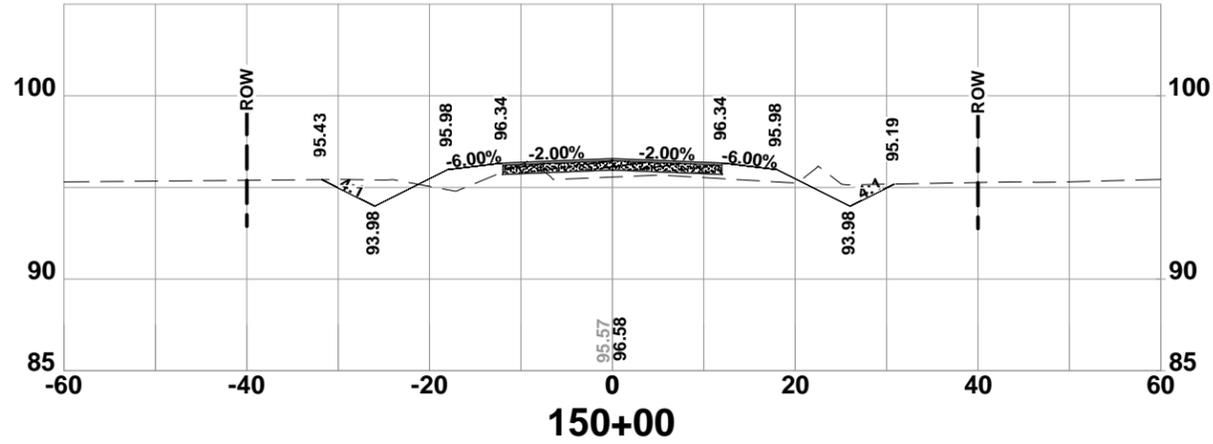


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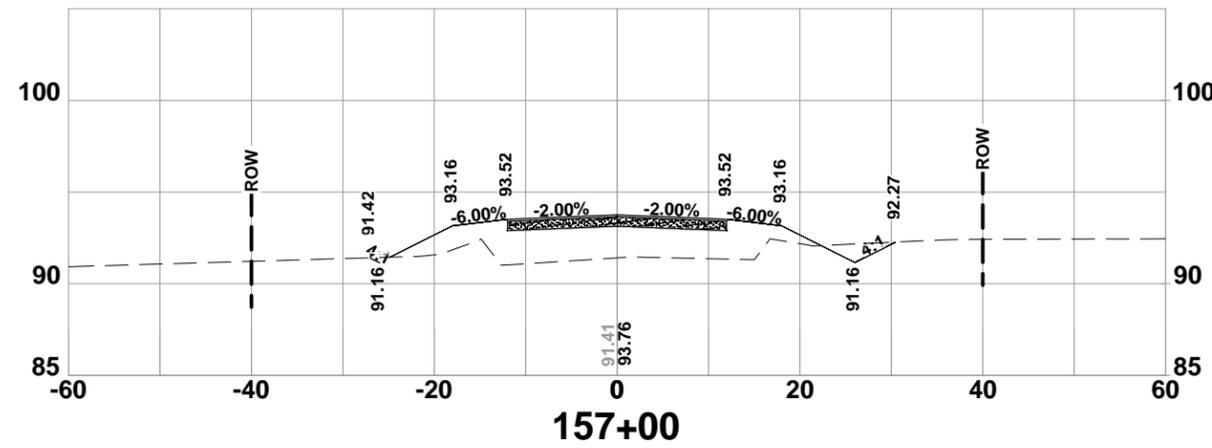
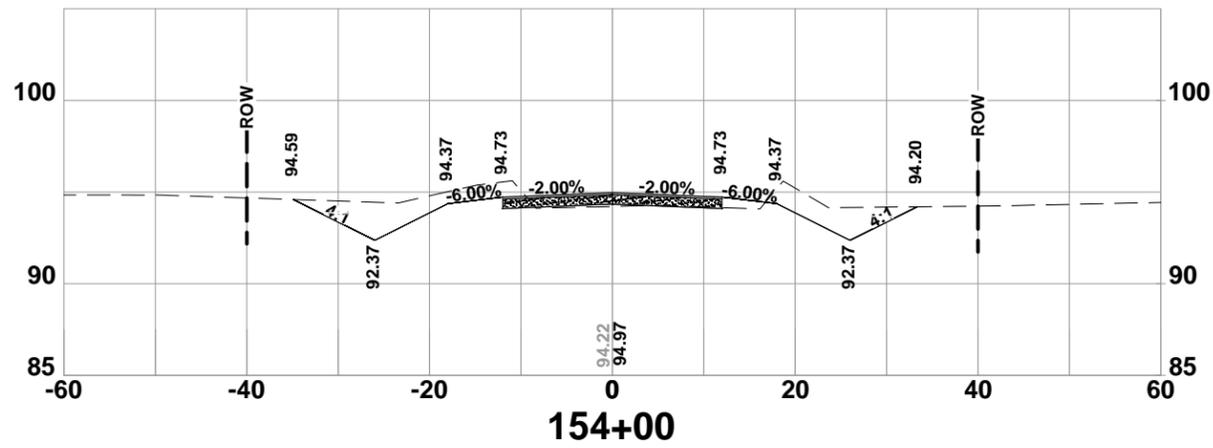
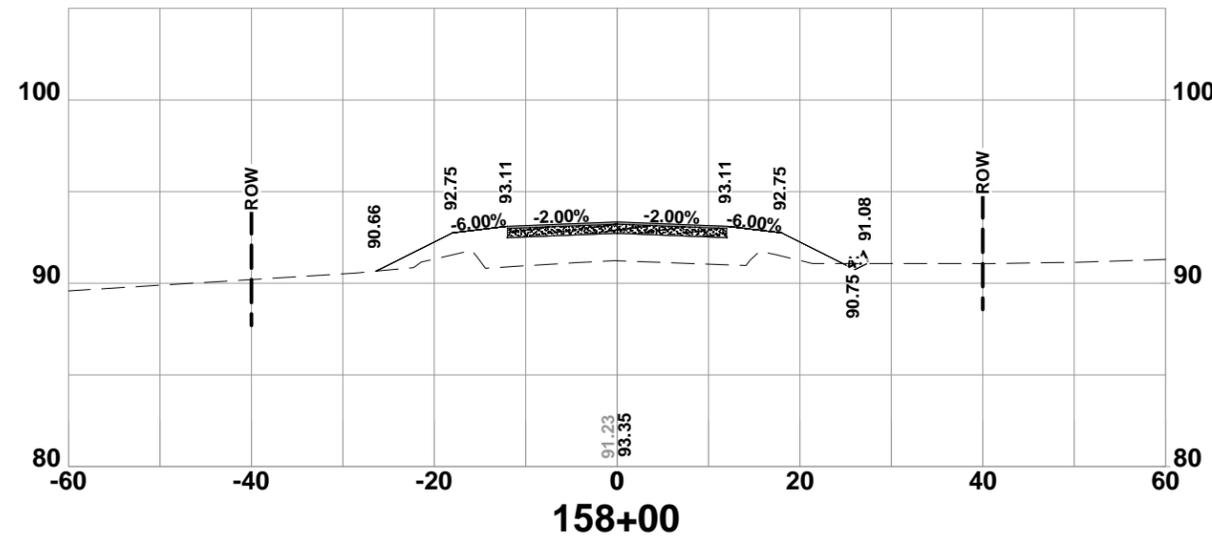
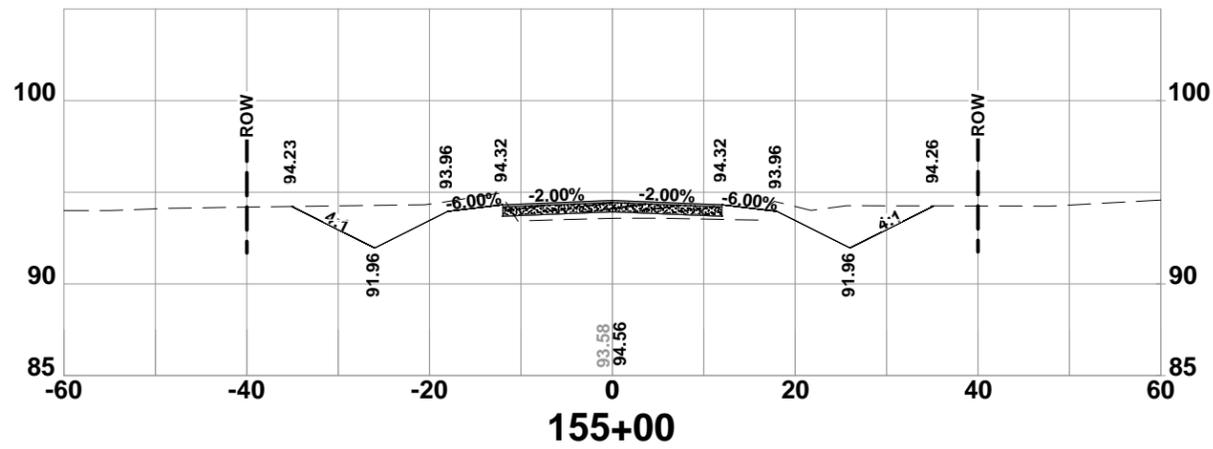
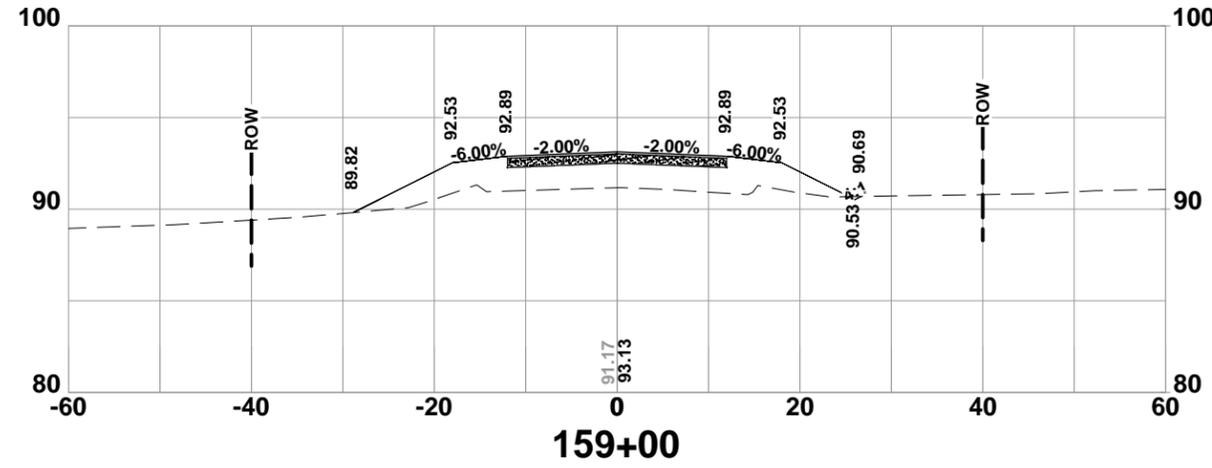
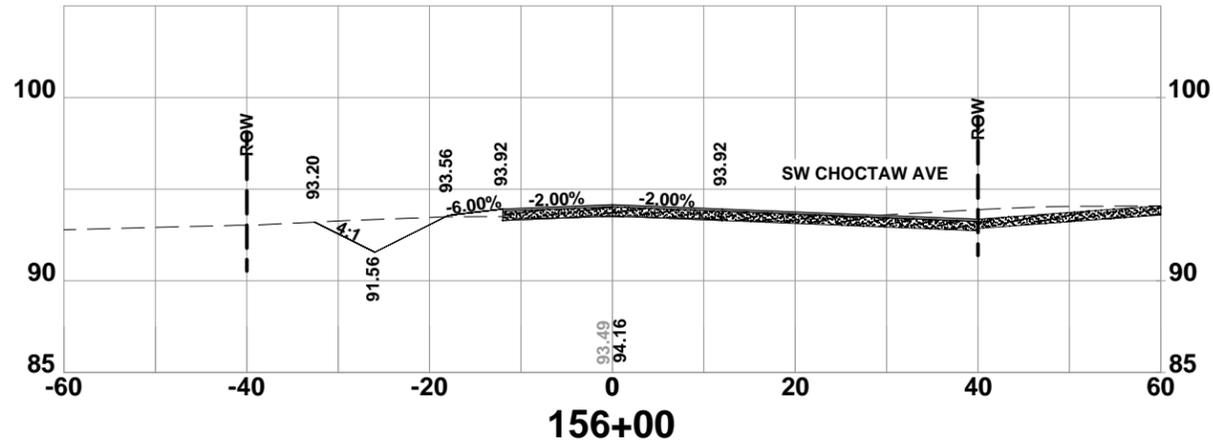
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 SW HERLONG ST  
 COLUMBIA COUNTY, FLORIDA

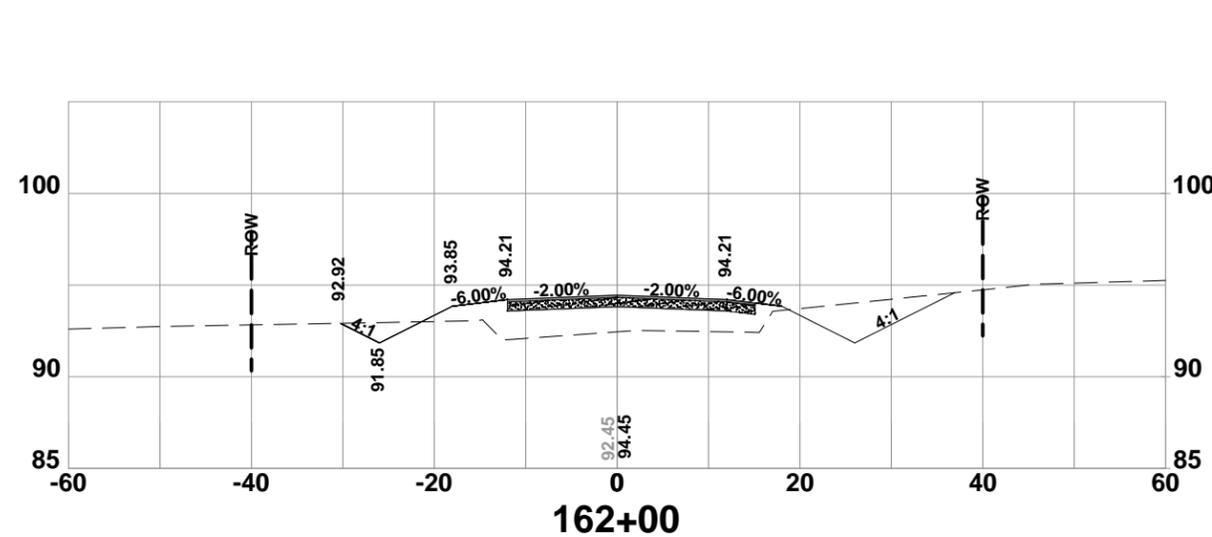
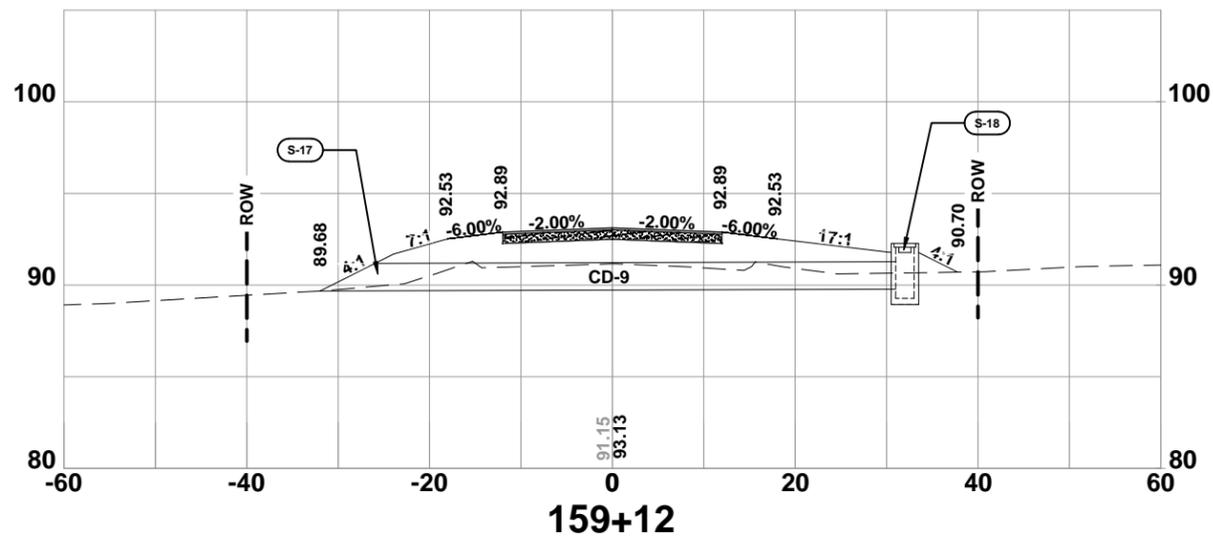
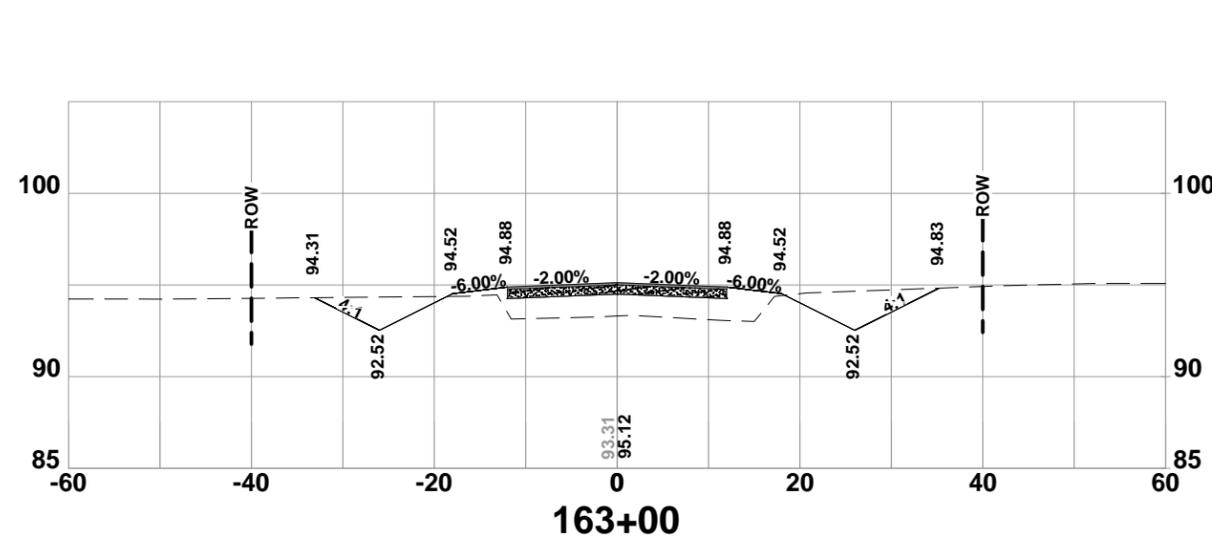
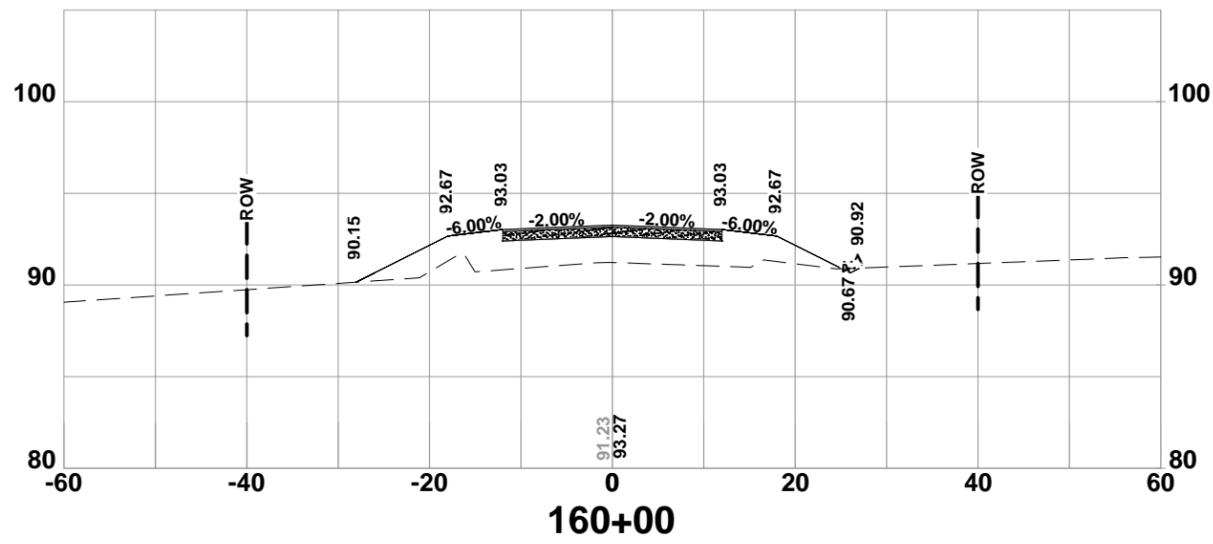
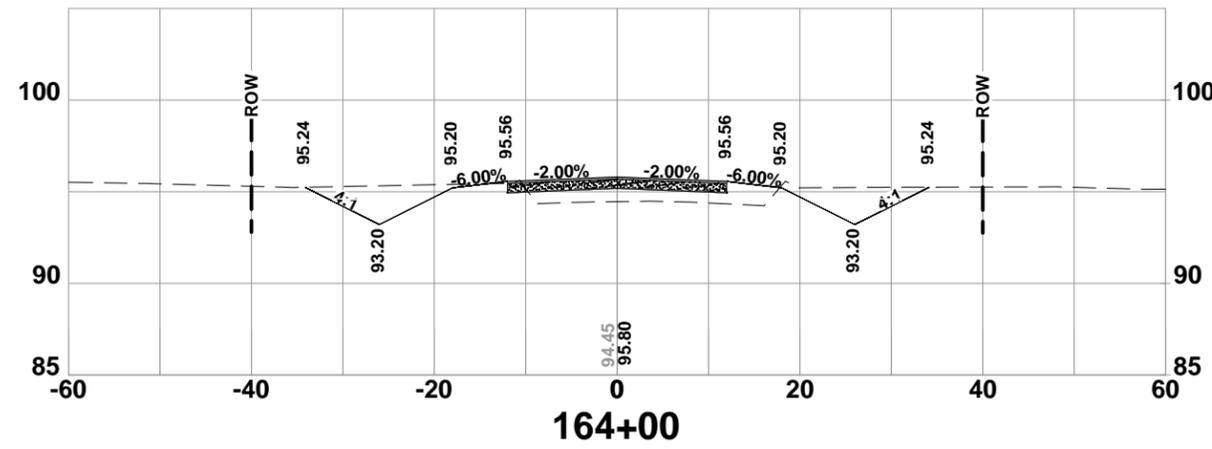
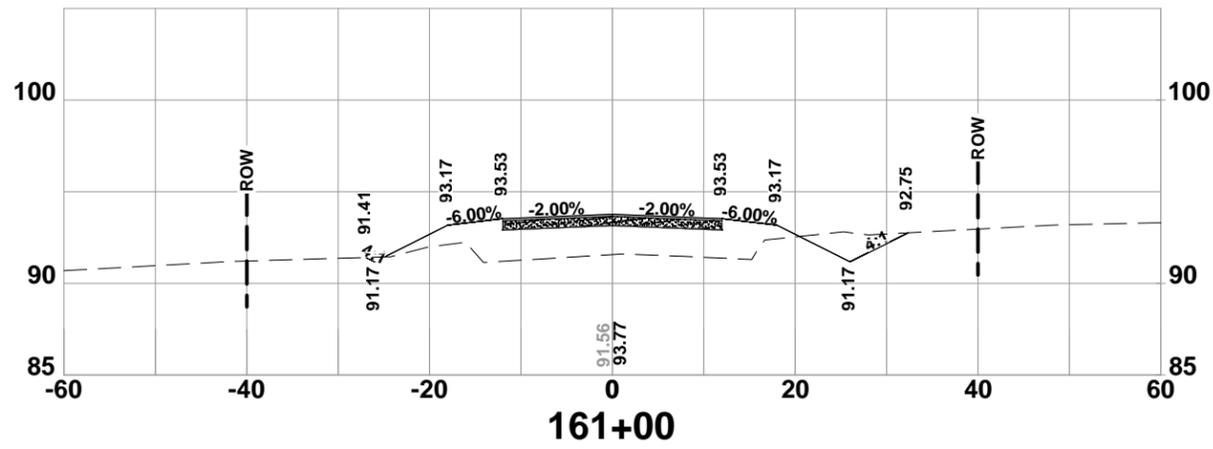
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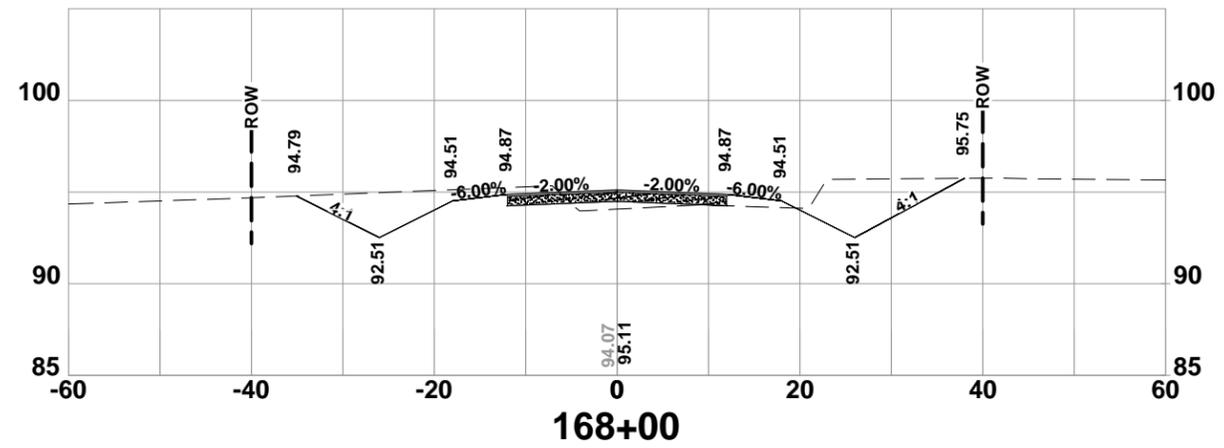
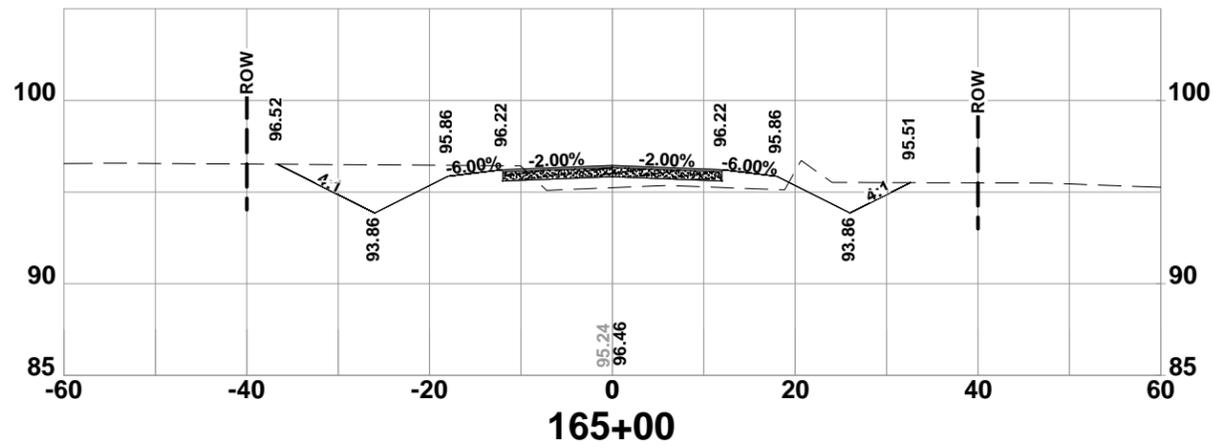
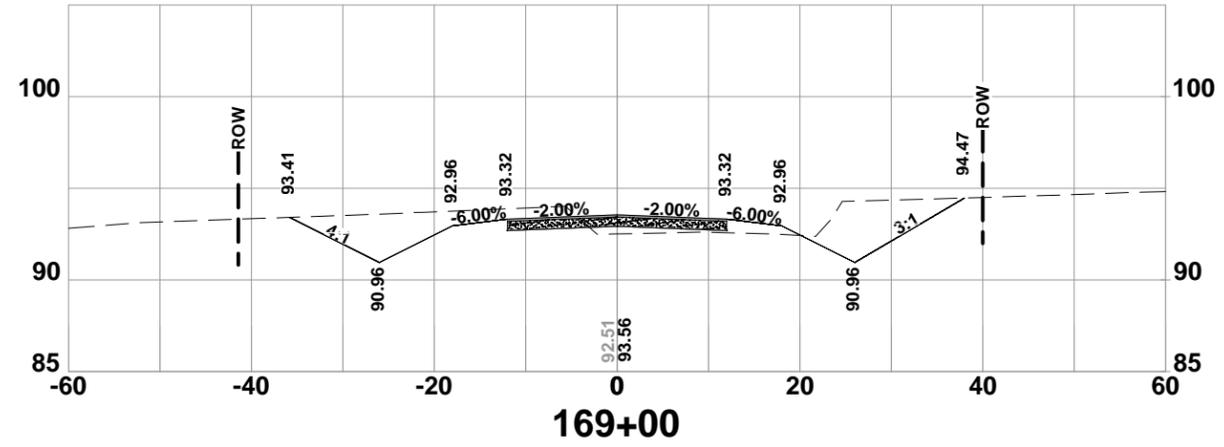
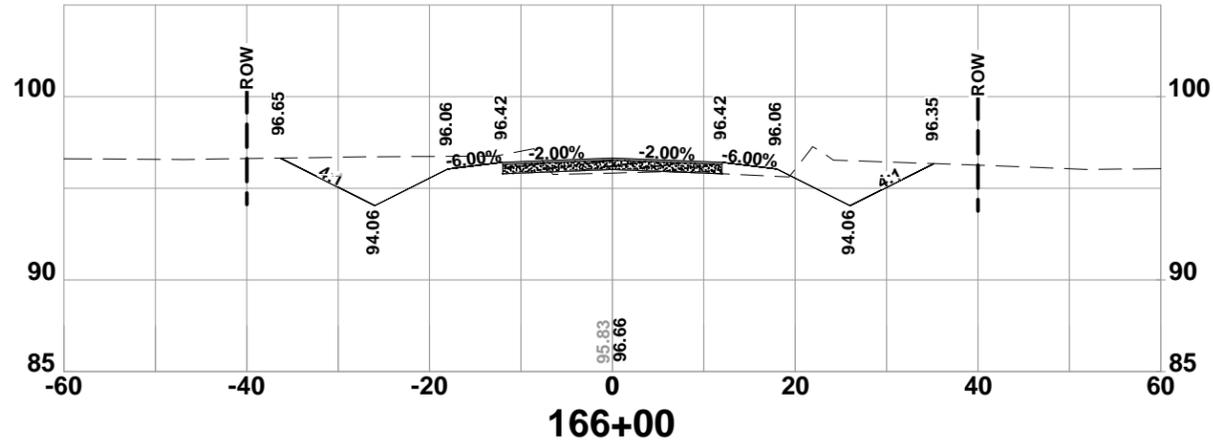
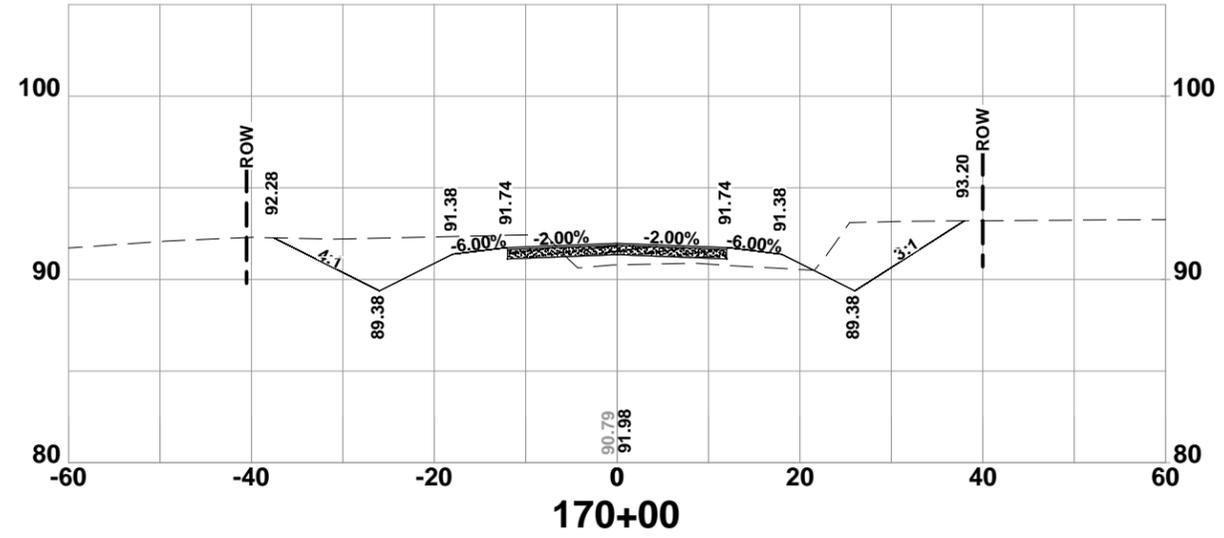
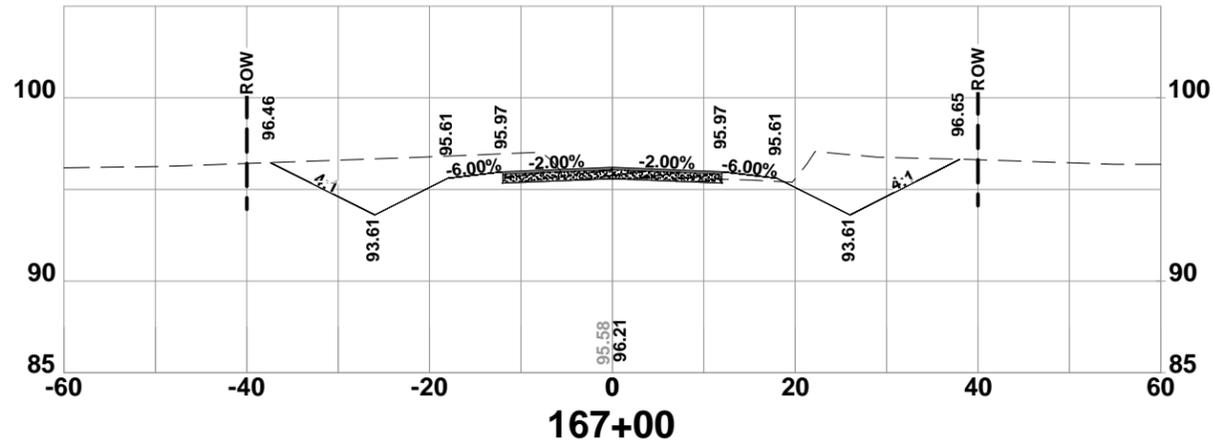
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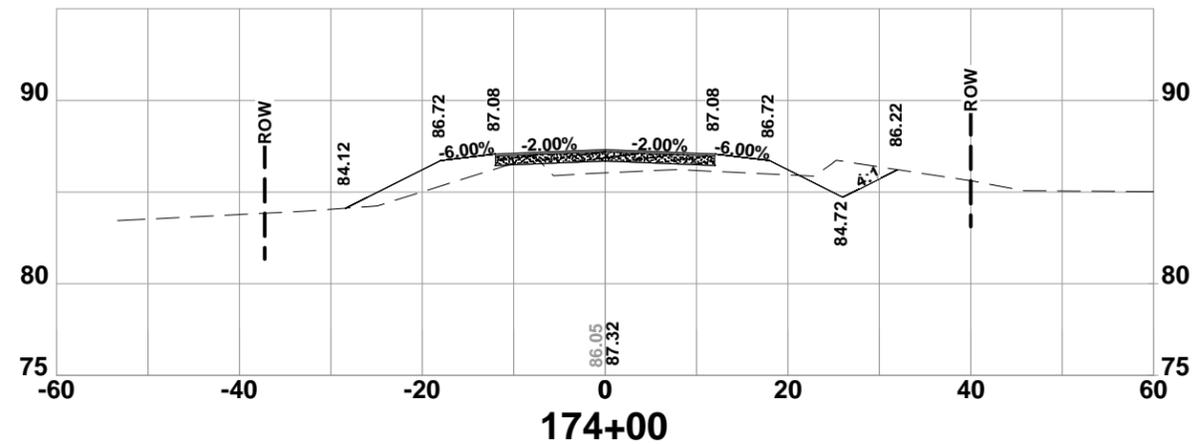
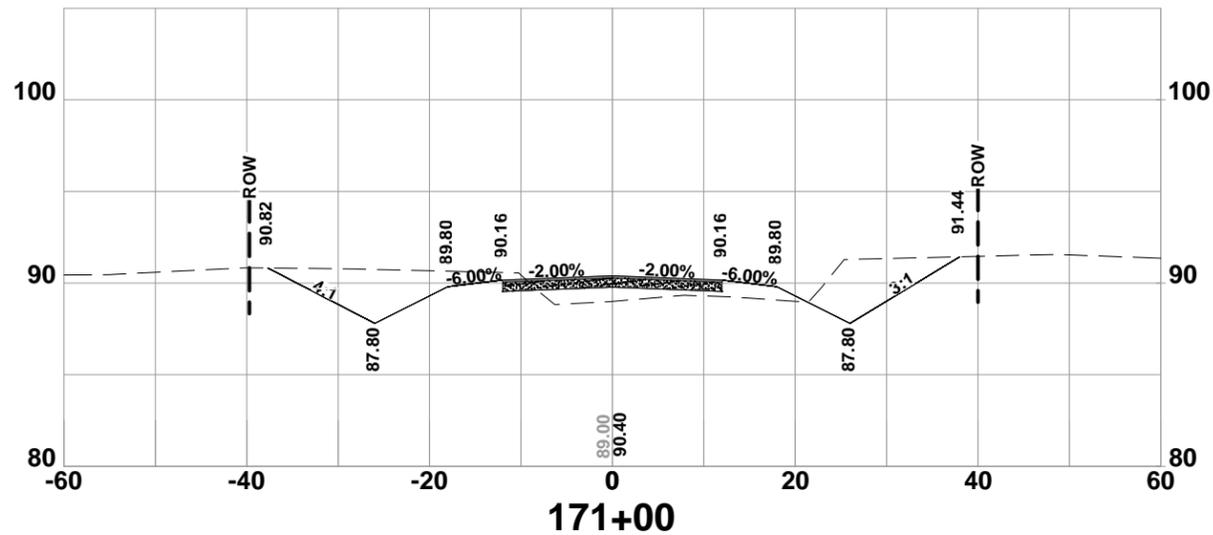
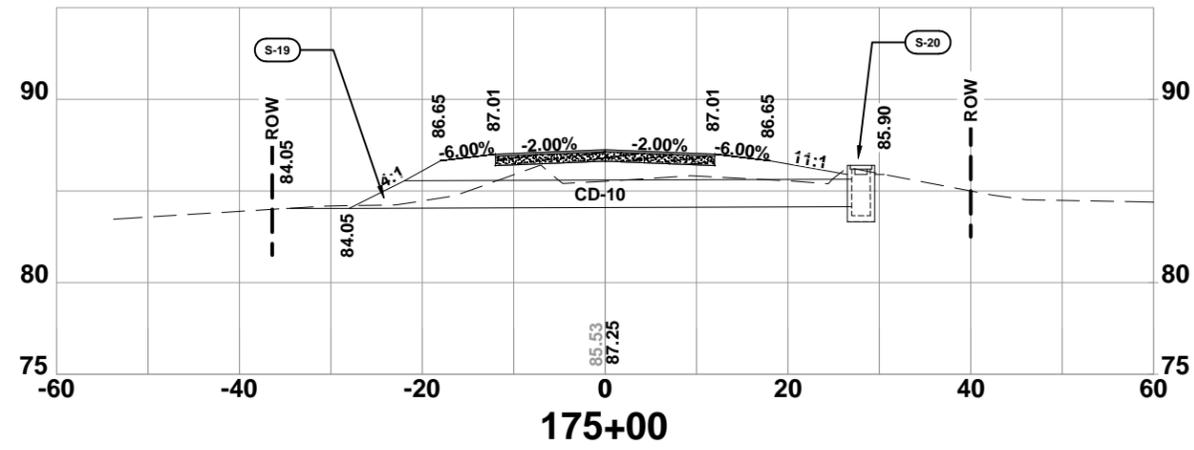
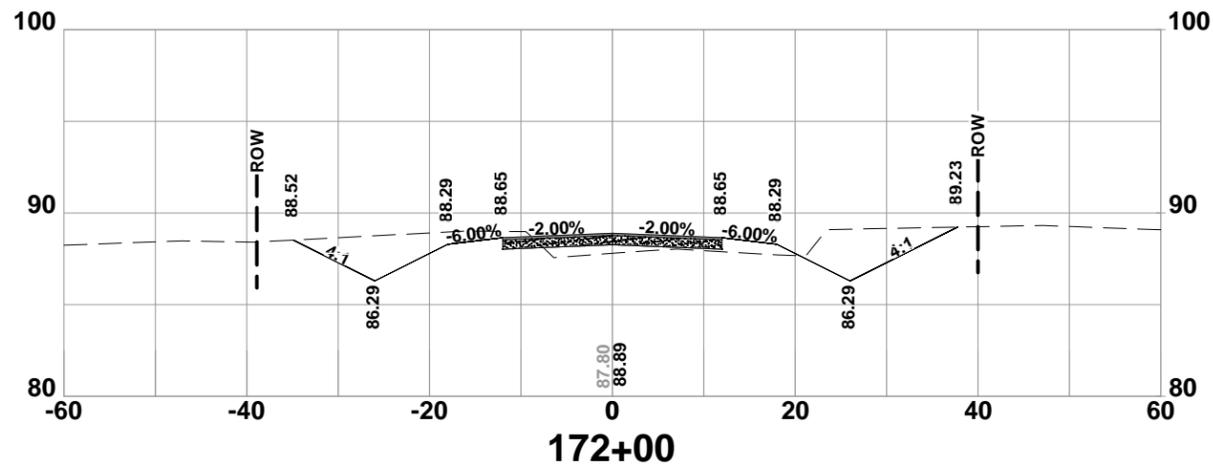
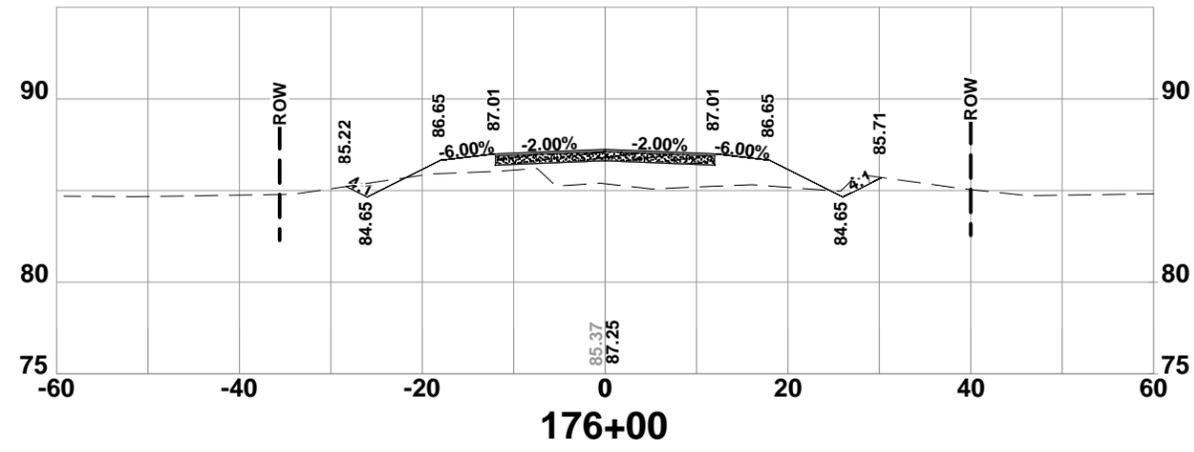
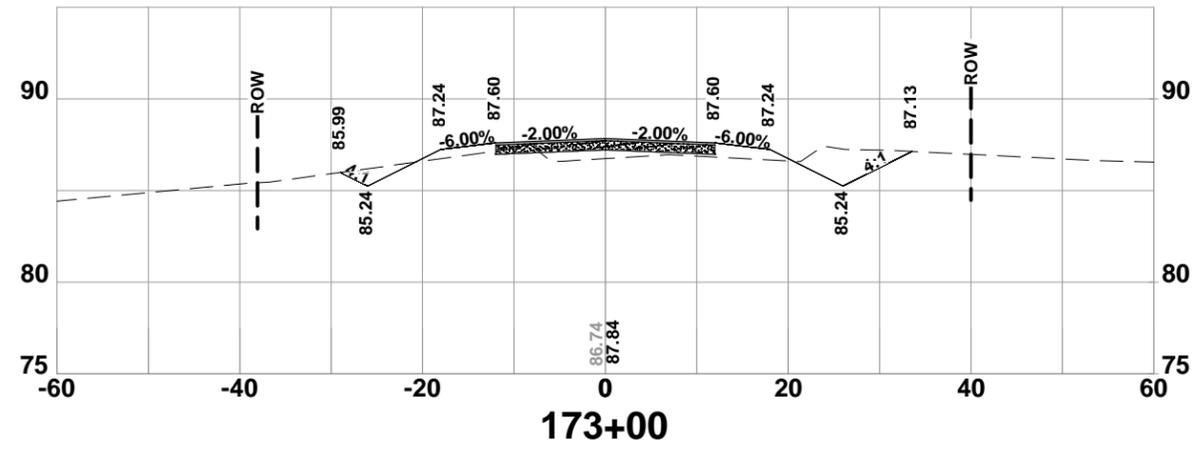
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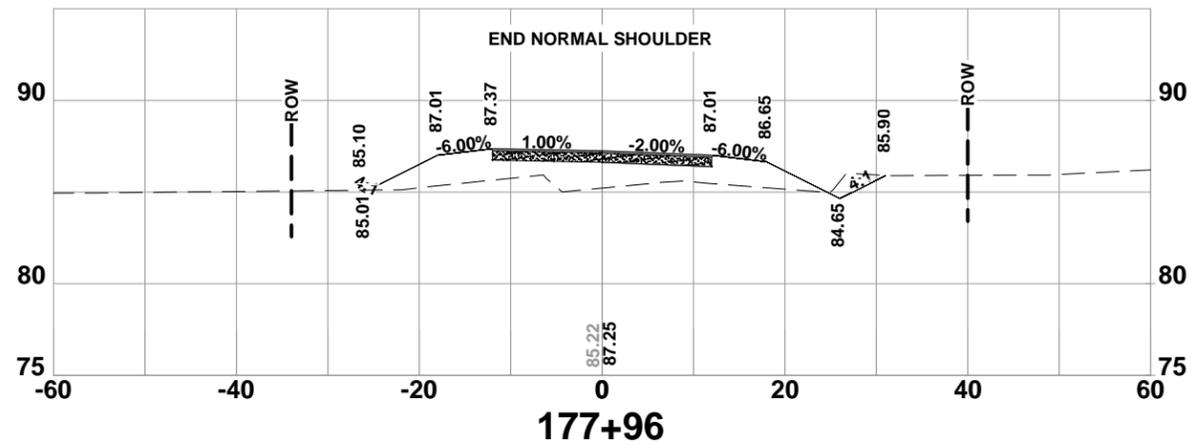
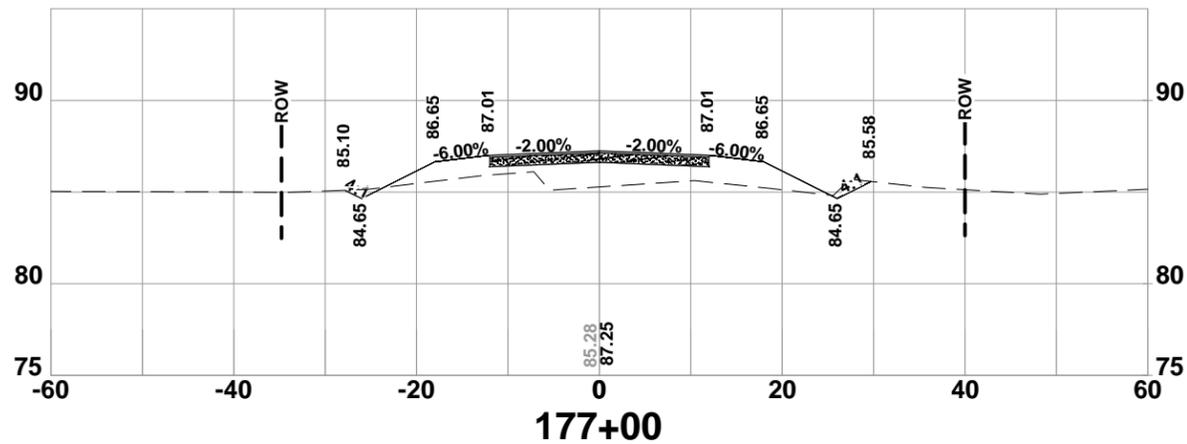
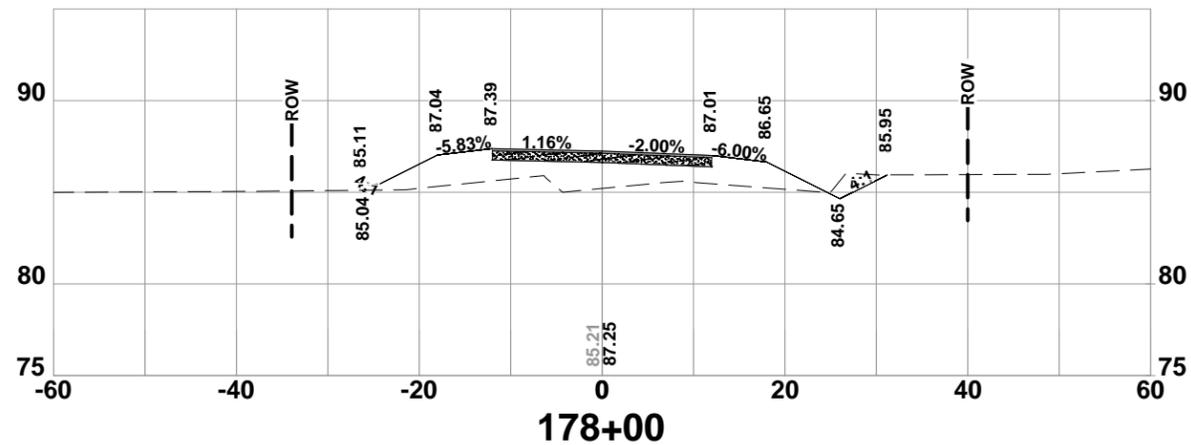
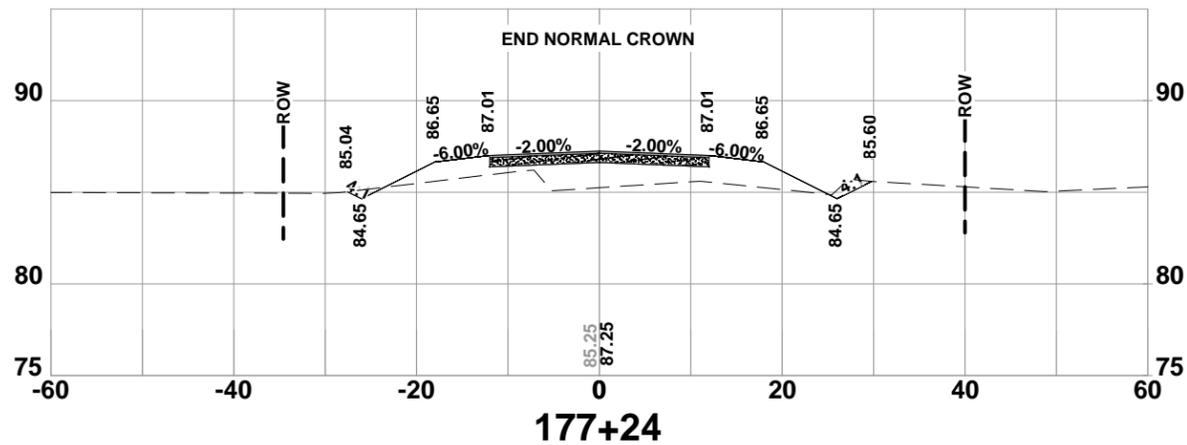
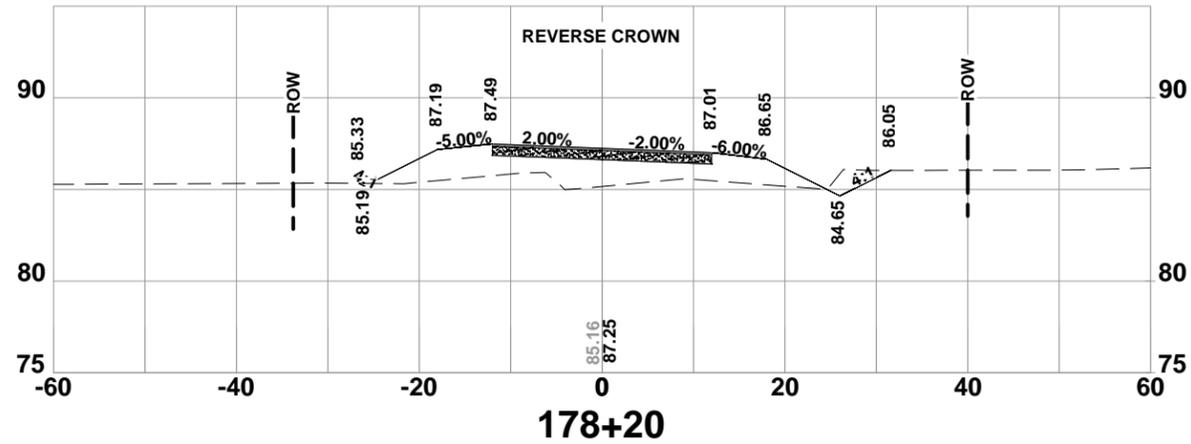
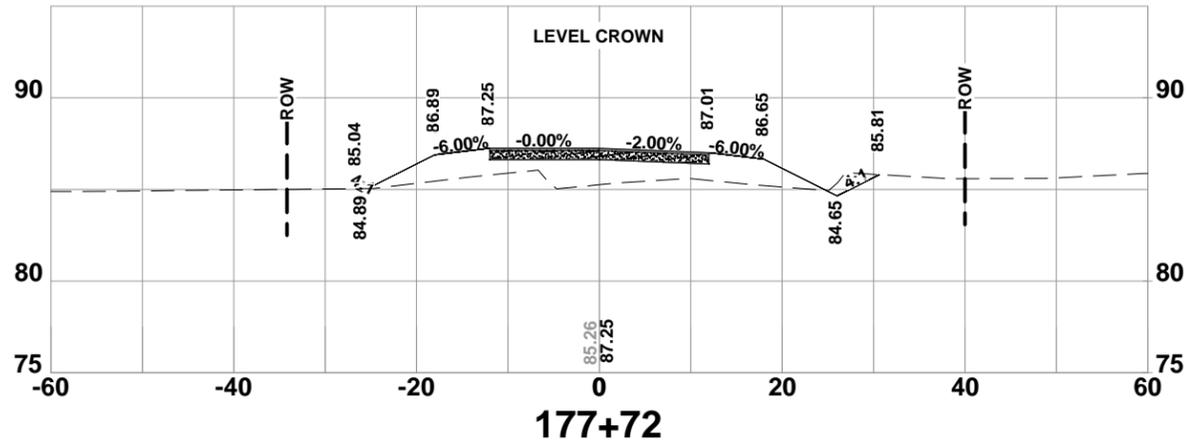
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 SW HERLONG ST  
 COLUMBIA COUNTY, FLORIDA

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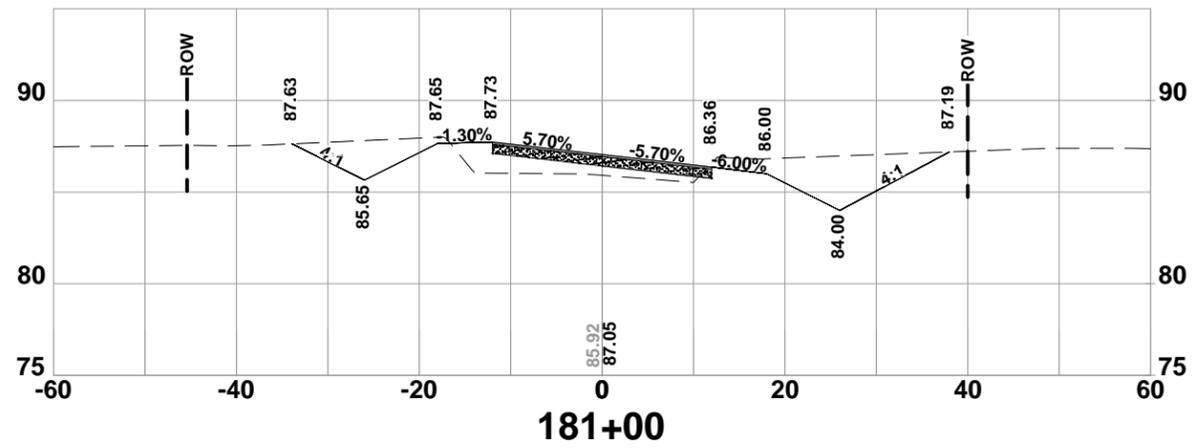
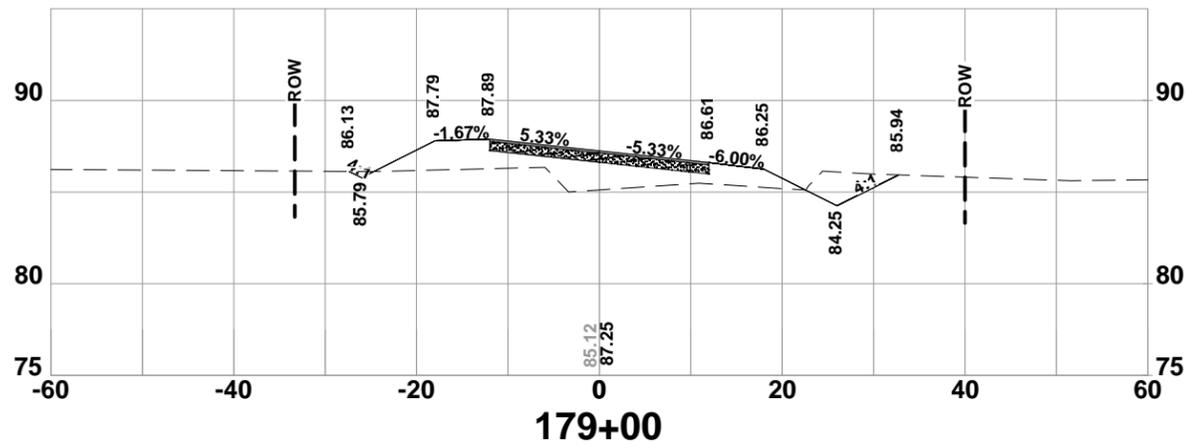
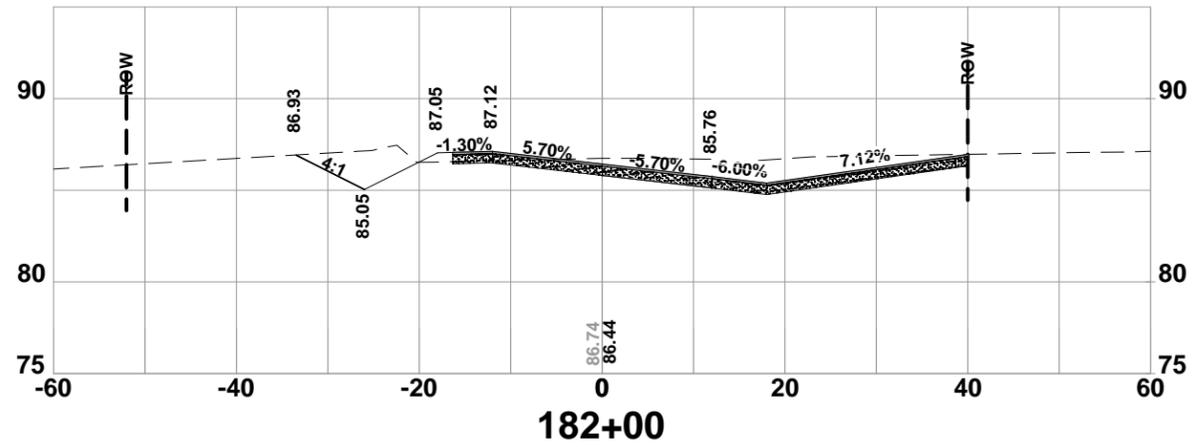
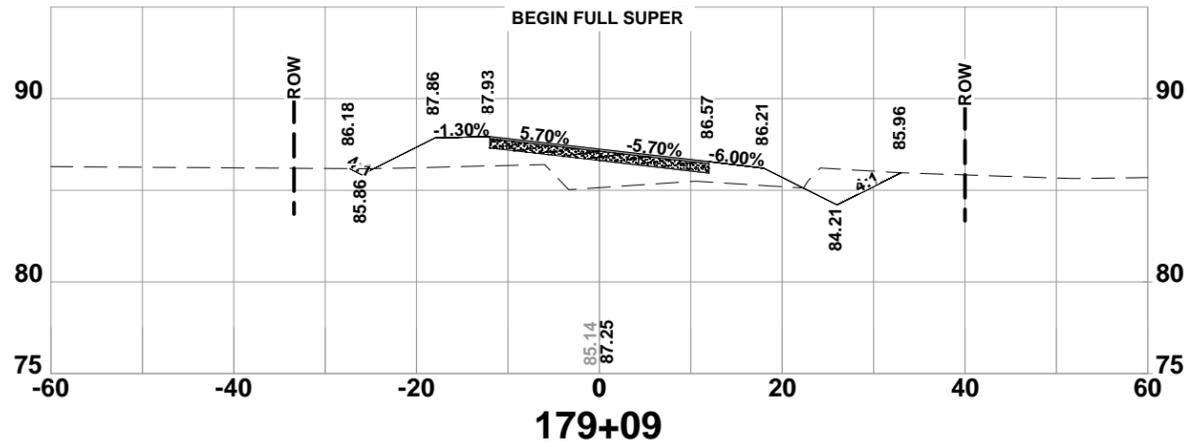
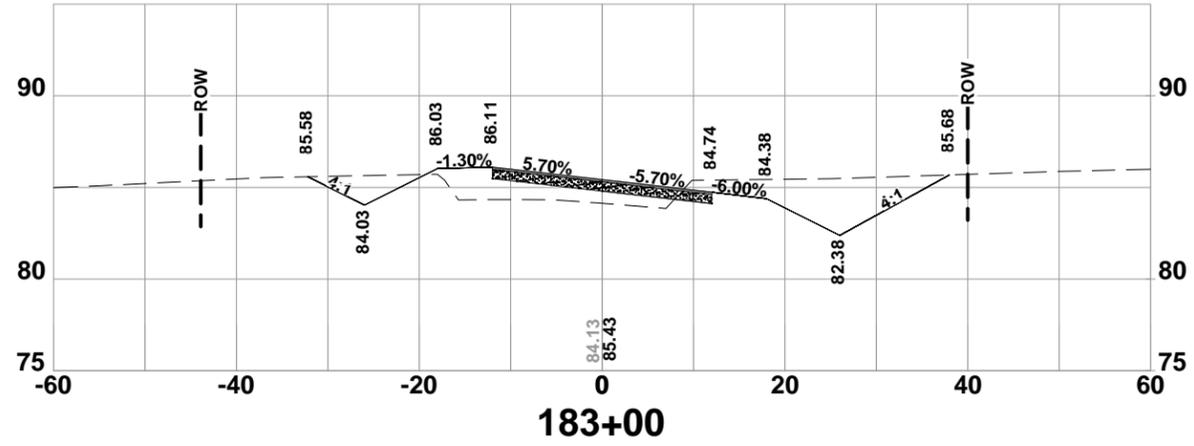
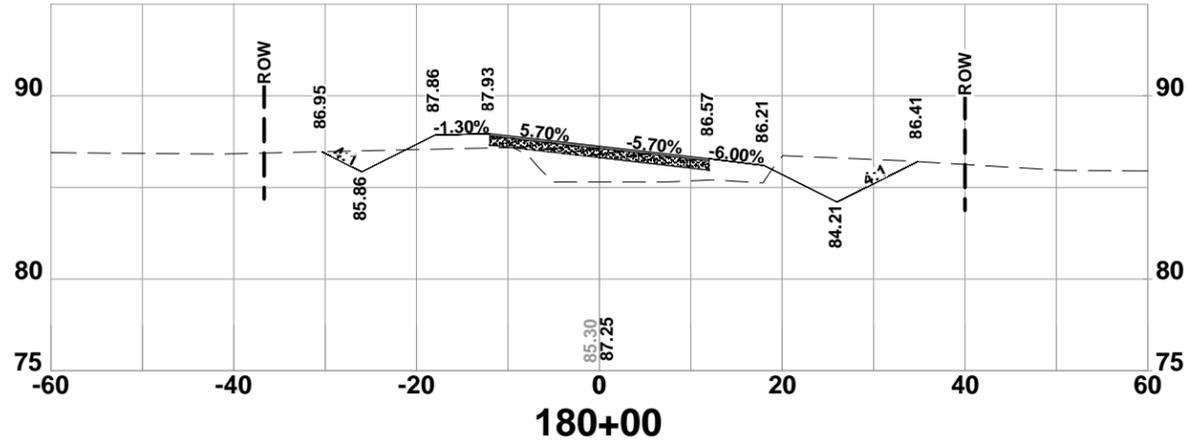
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 COLUMBIA COUNTY, FLORIDA

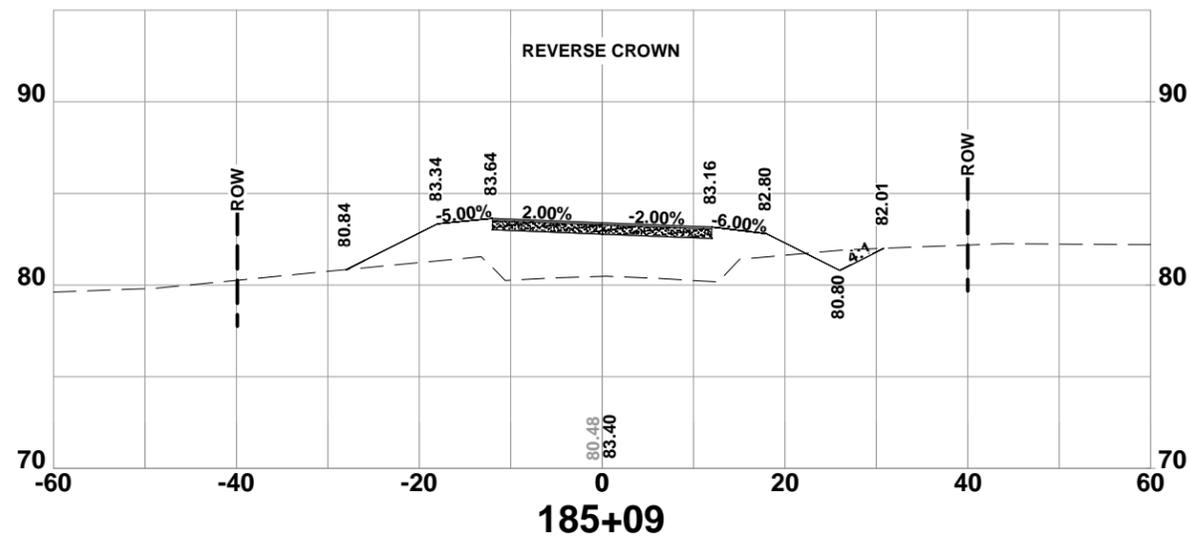
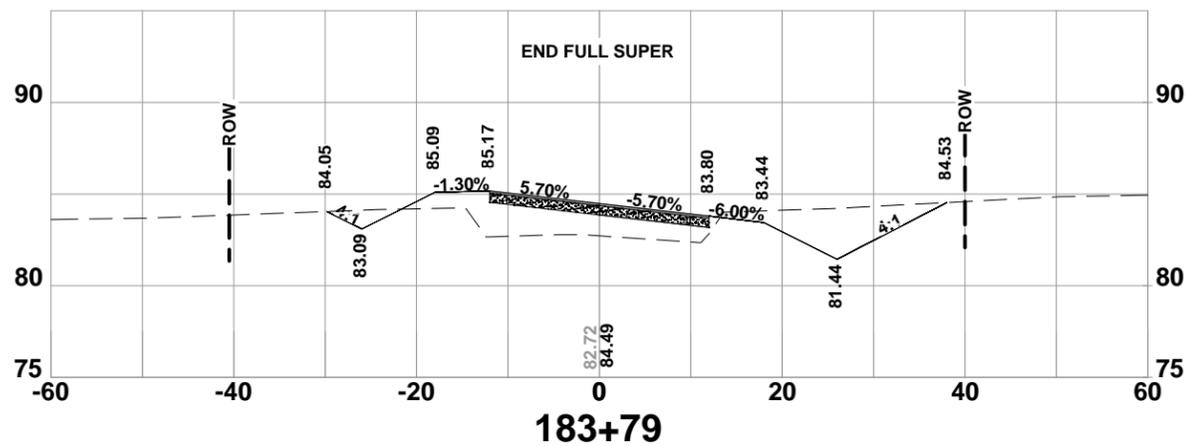
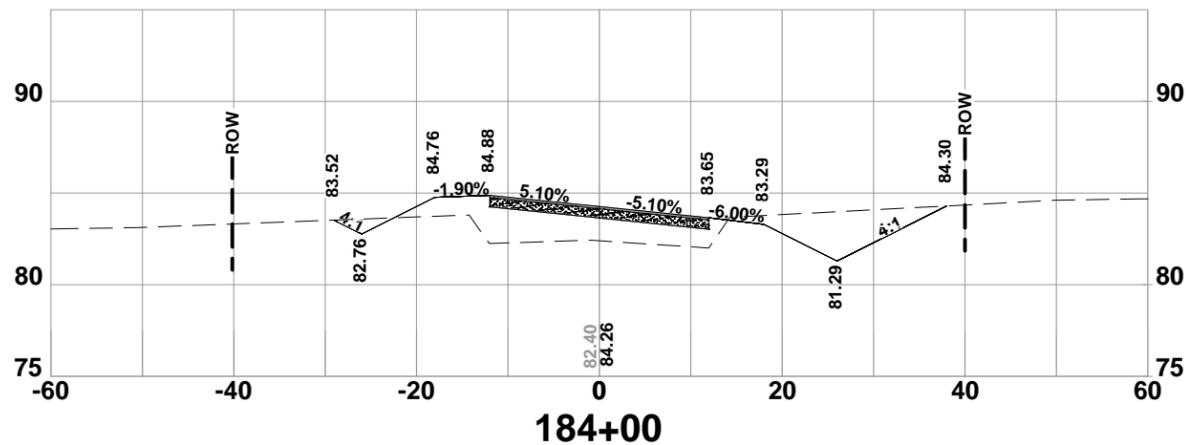
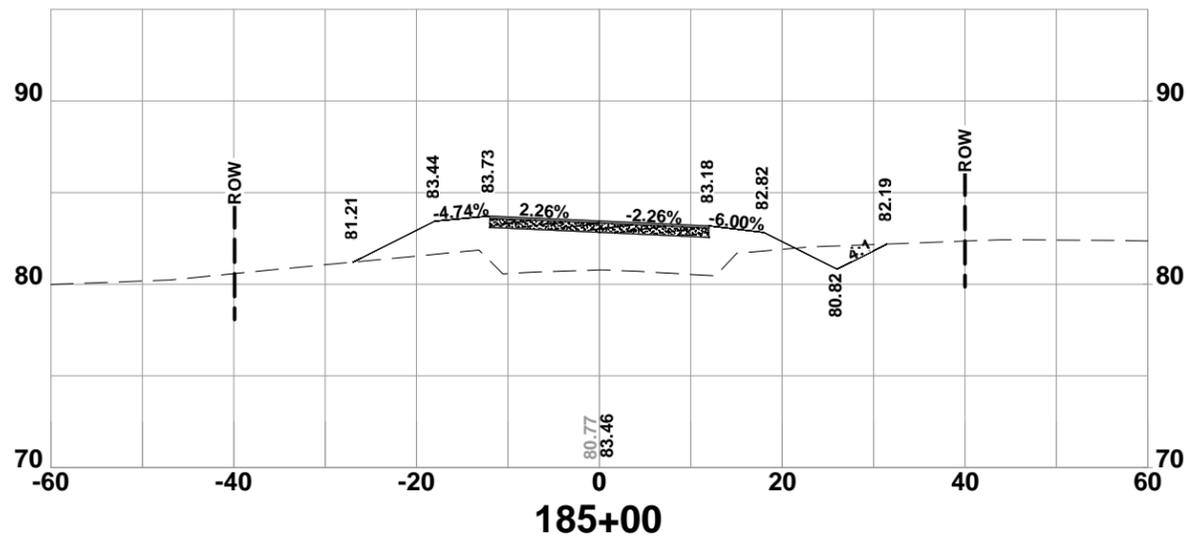


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	RD	DRAFTED BY
	GB	CHECKED BY
		SIGNATURE & SEAL

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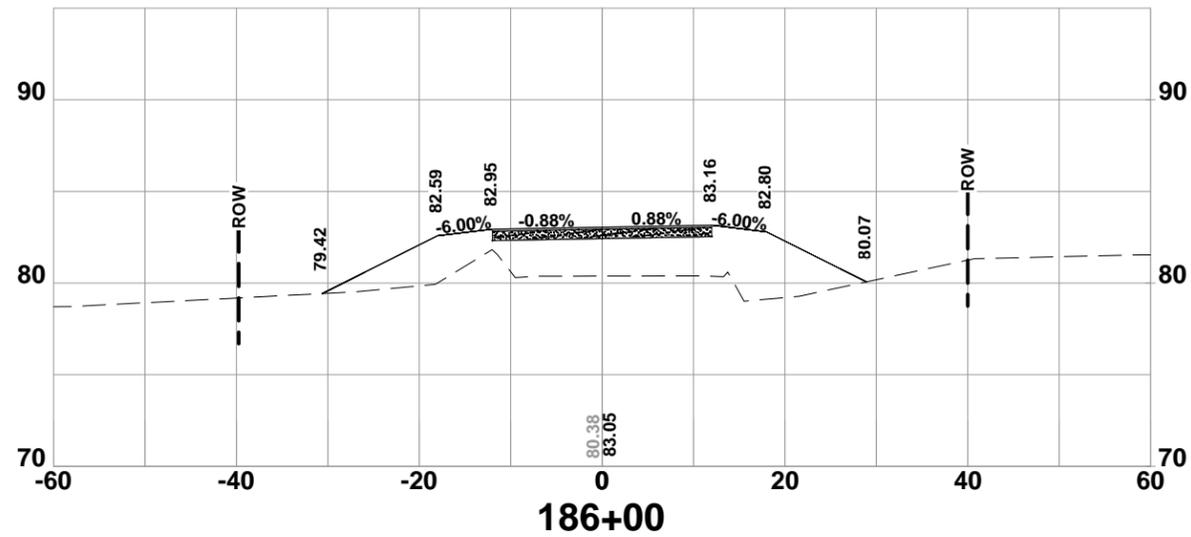
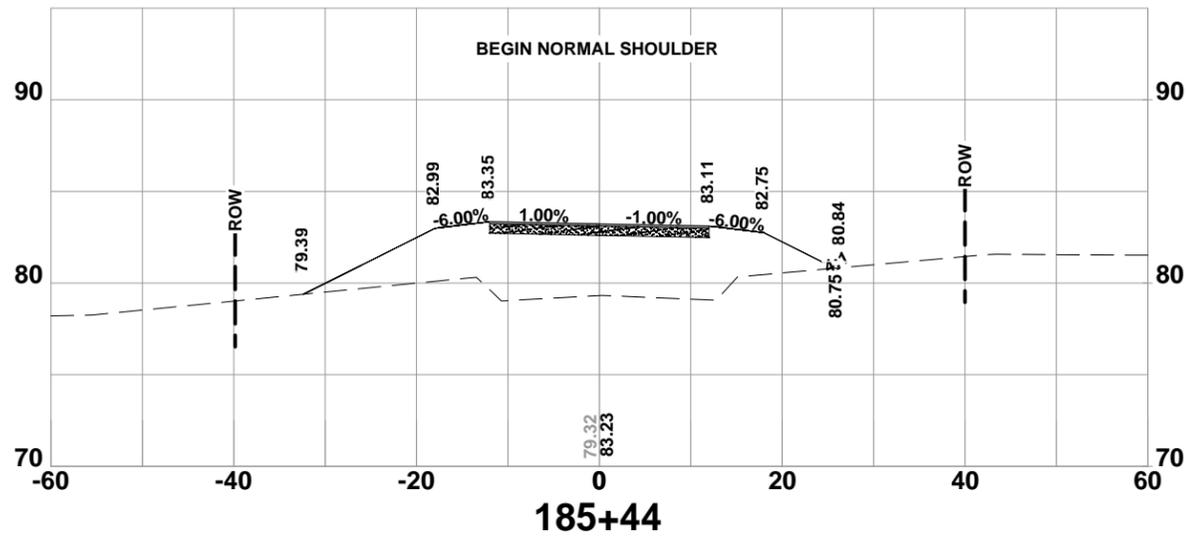
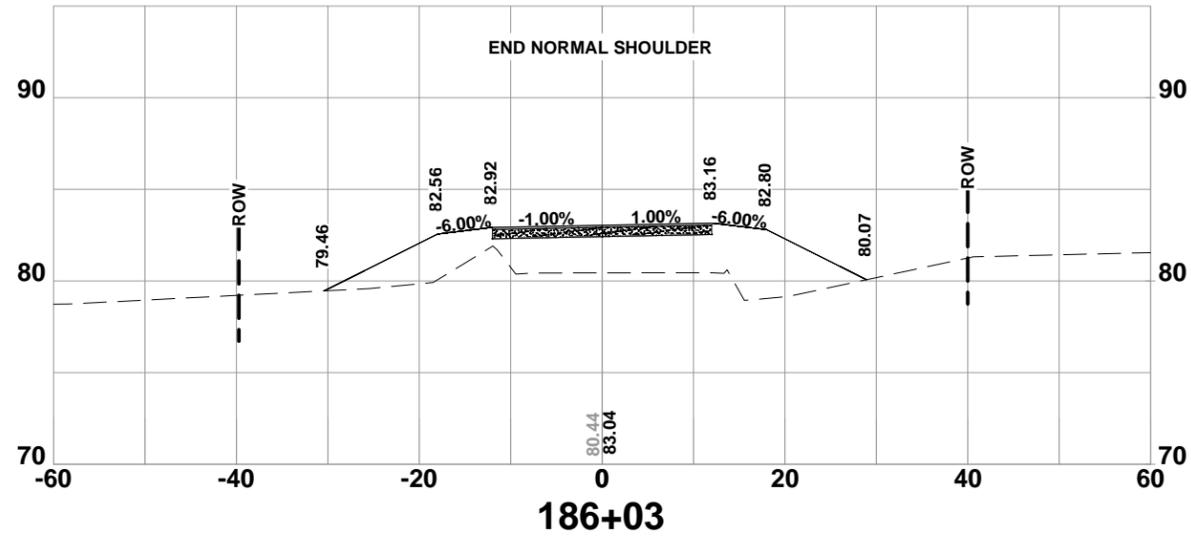
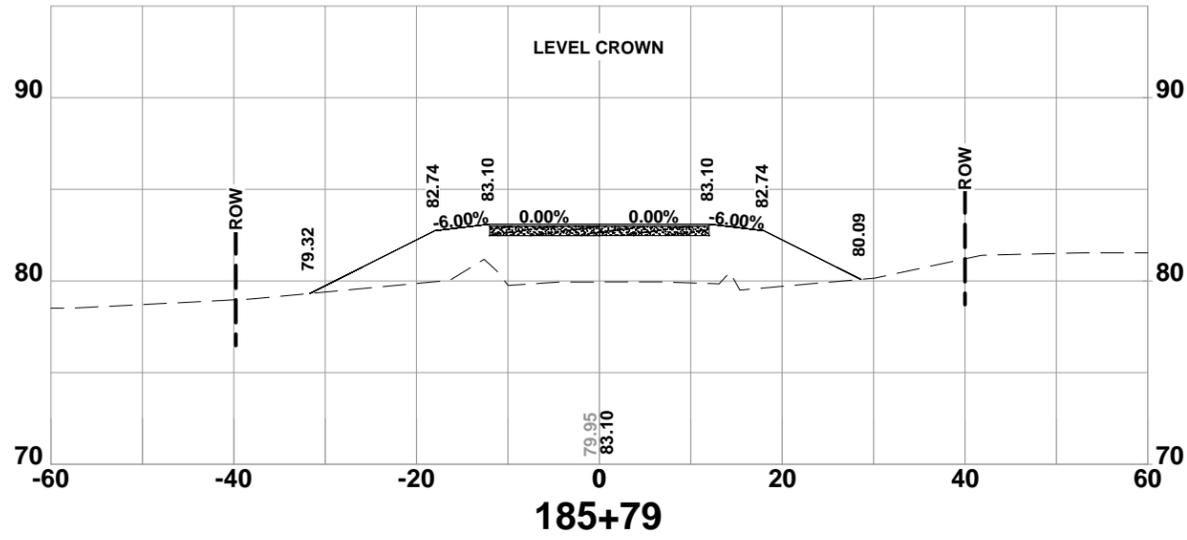
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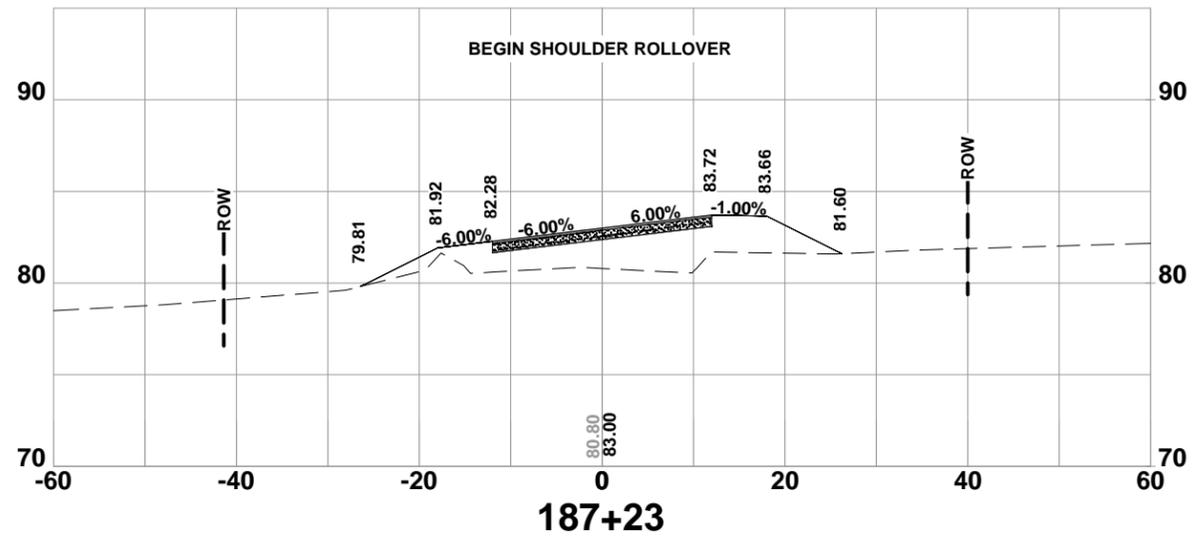
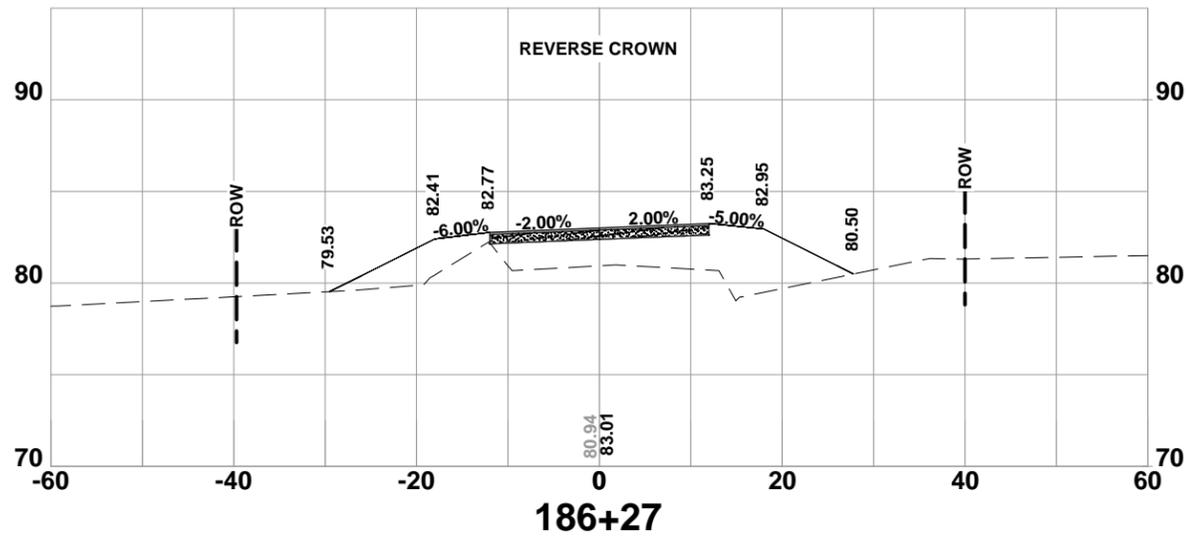
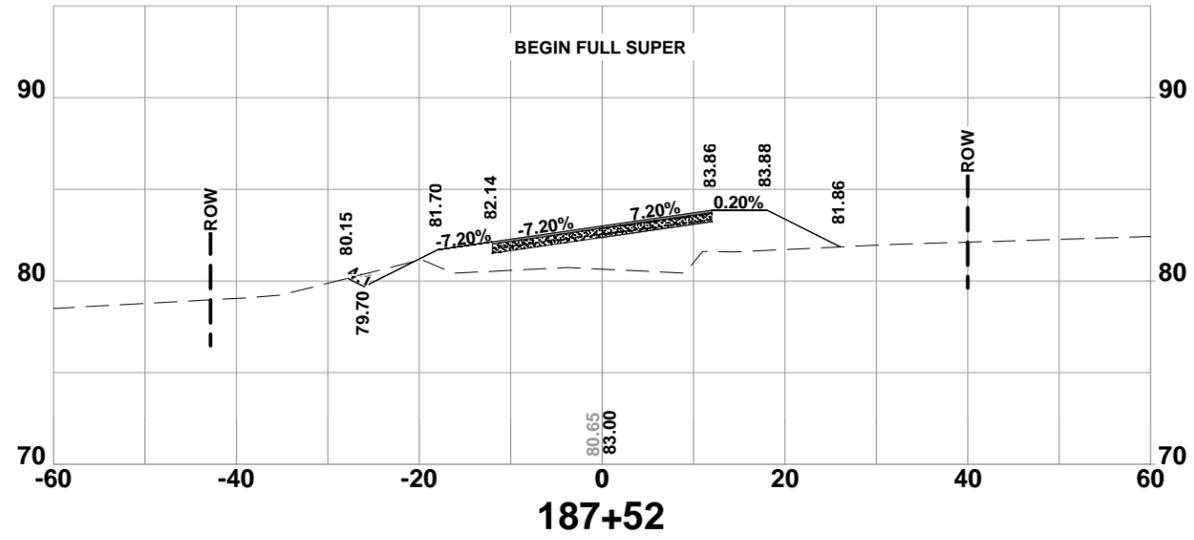
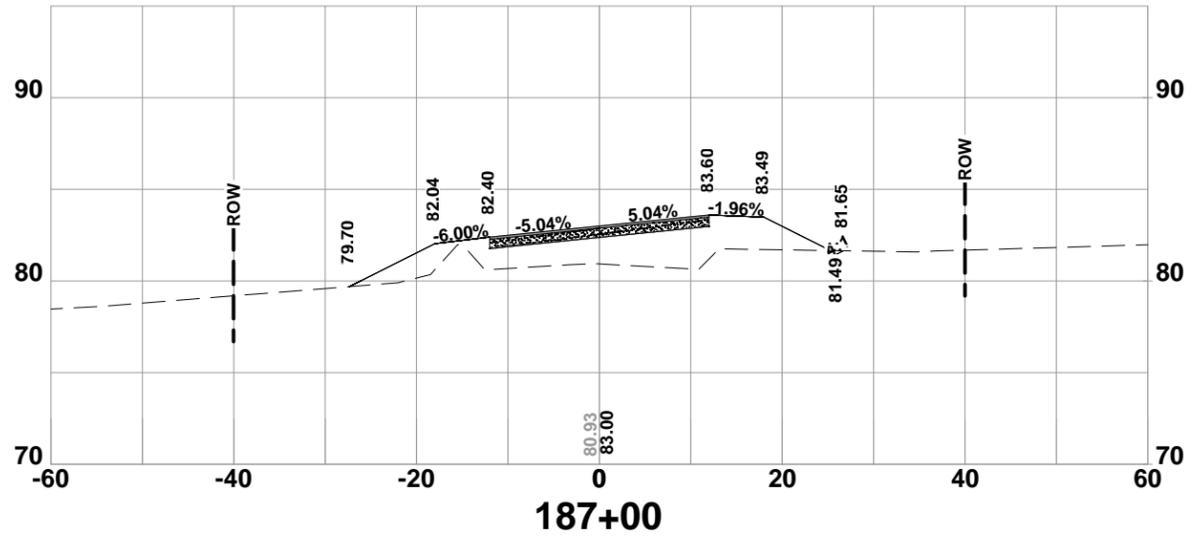
DATE	DESIGNED BY	DRAFTED BY	CHECKED BY
11/24/08	GB	RD	GB

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**CROSS SECTIONS**  
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North Florida Professional Services, Inc.  
 P.O. BOX 3823  
 Tallahassee, FL 32318  
 Ph. 877-335-1525  
 Fax. 386-752-4674  
 Eng. Lic. 29011



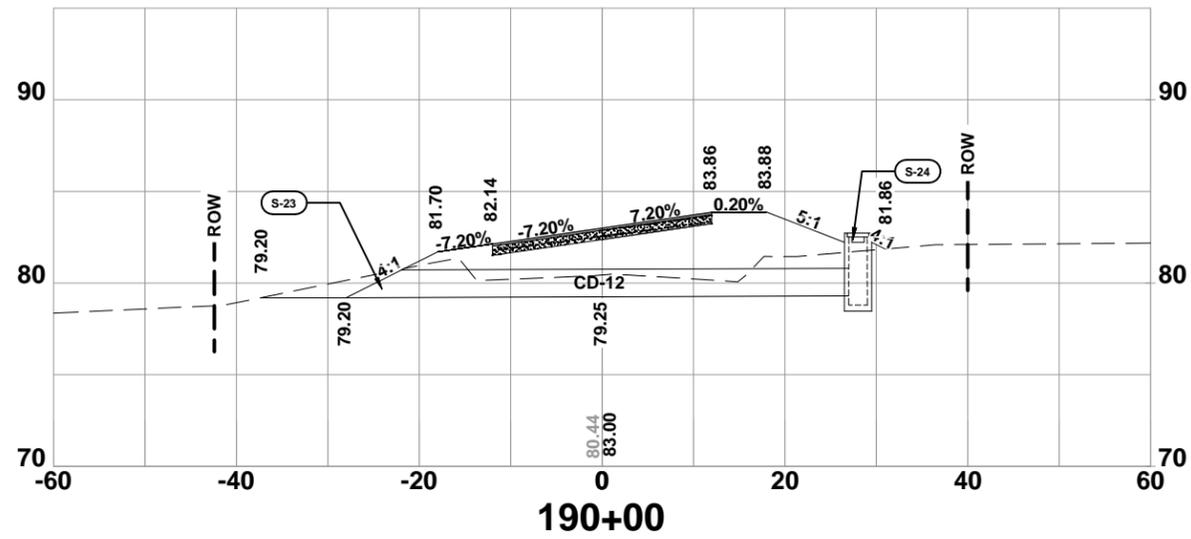
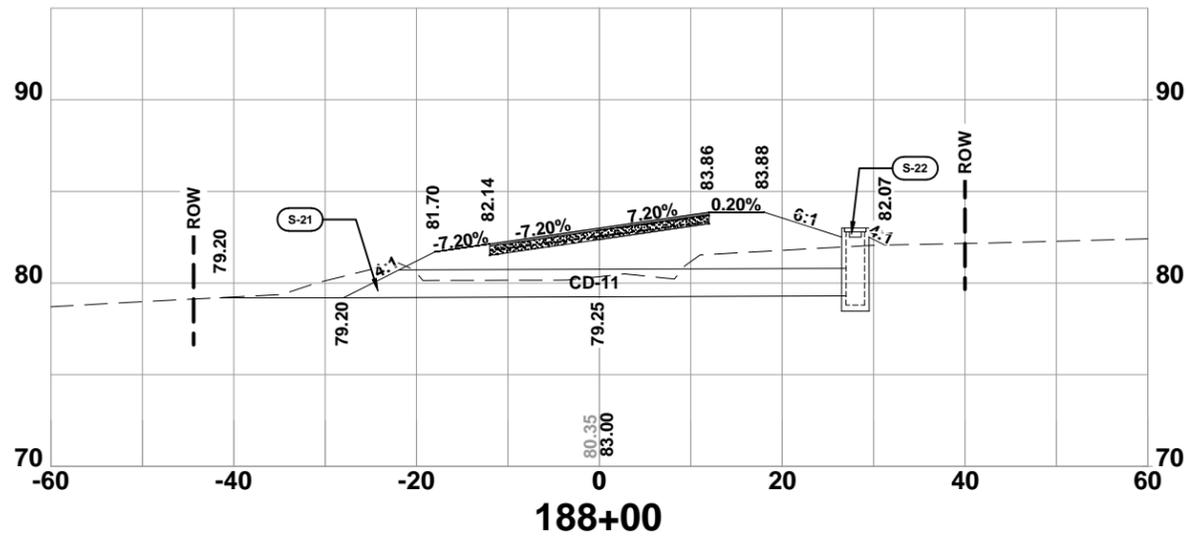
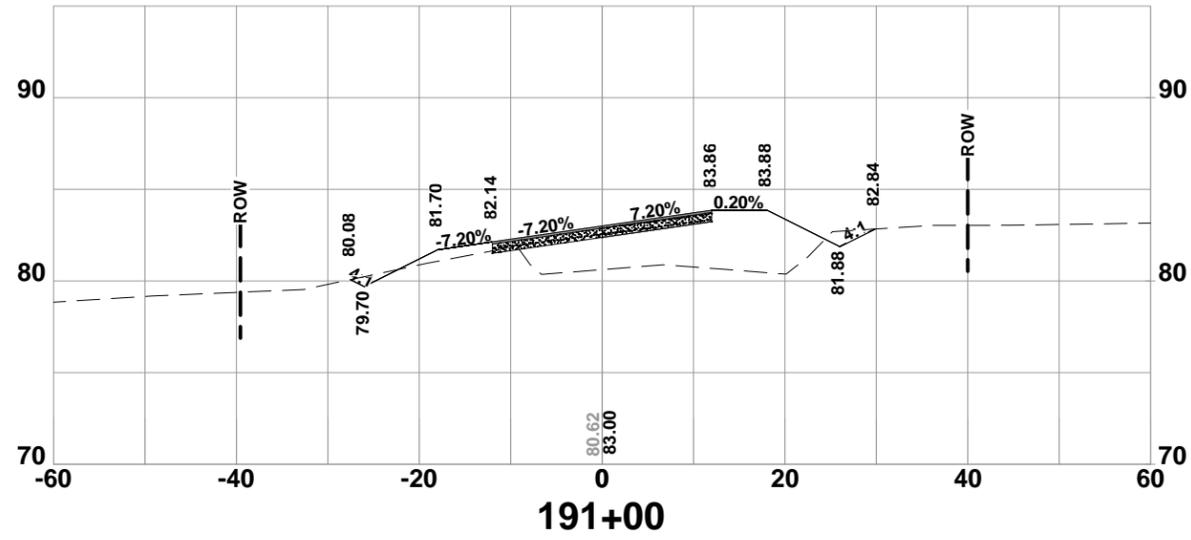
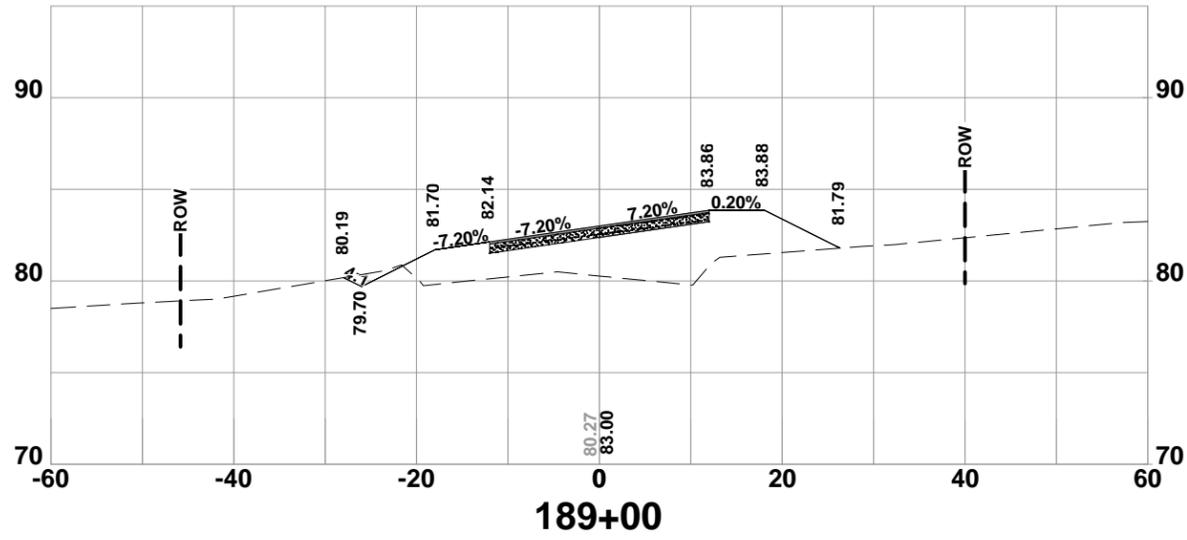
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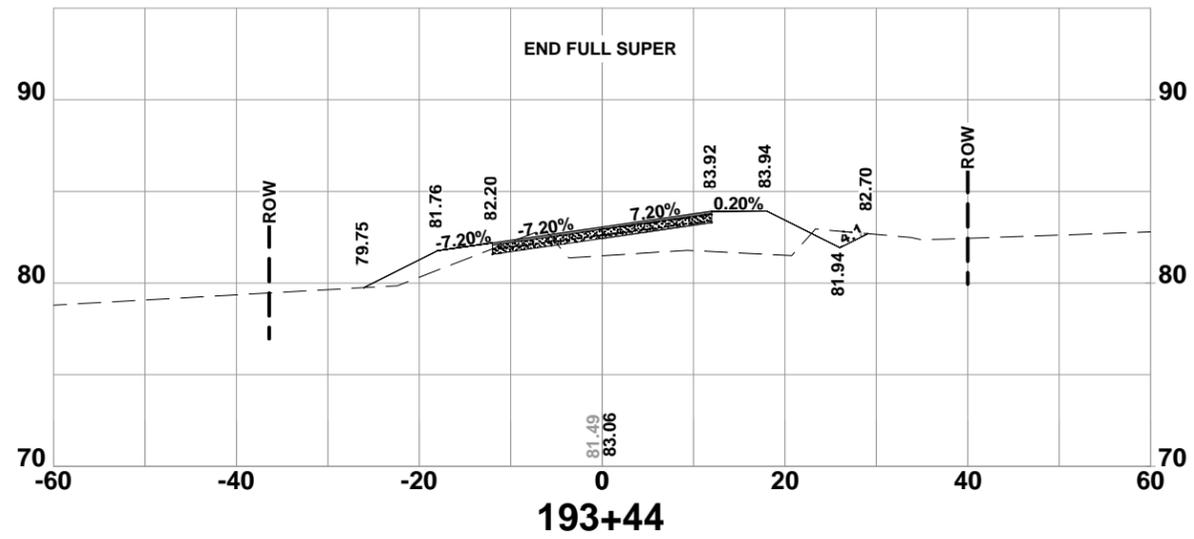
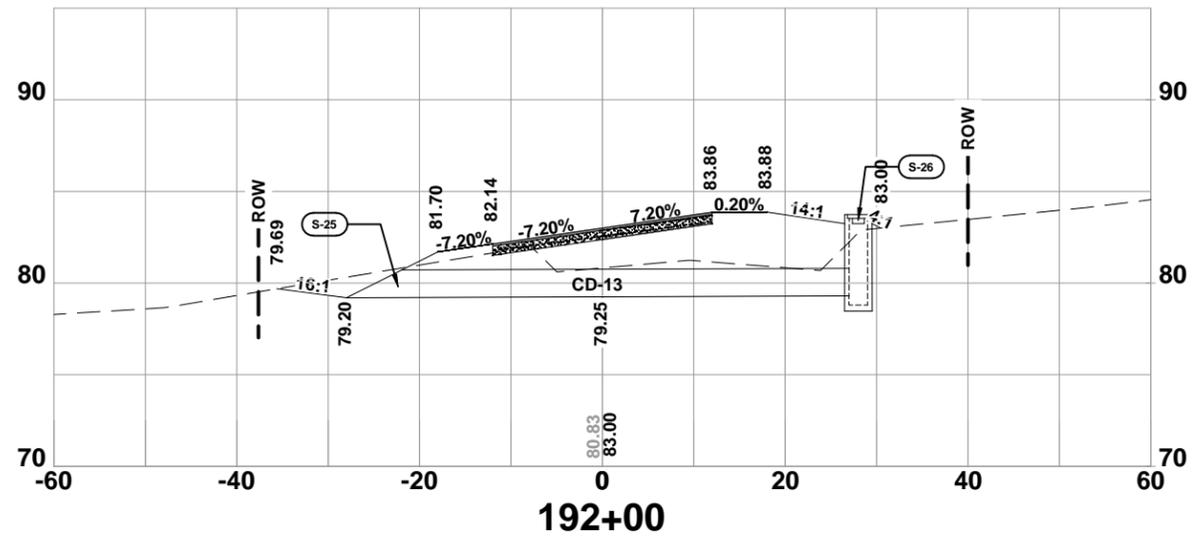
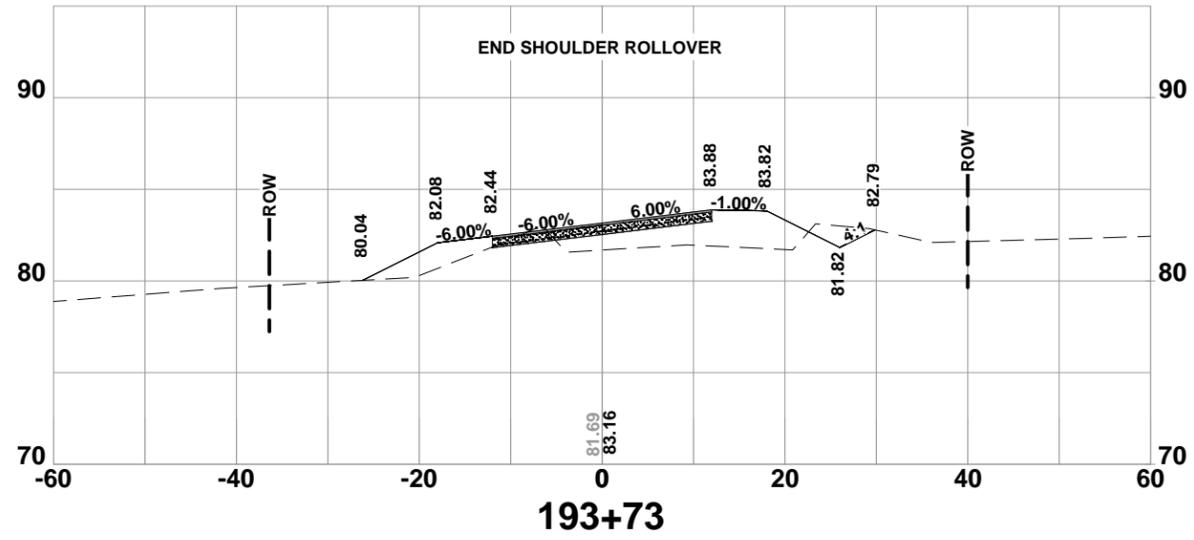
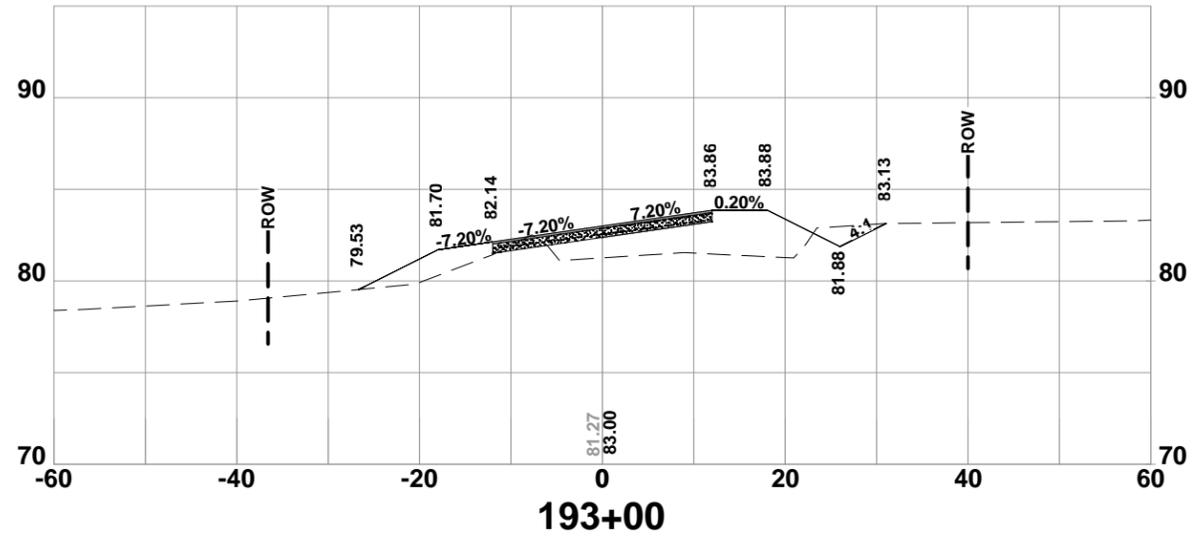
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NO.	DATE	BY	DESCRIPTION
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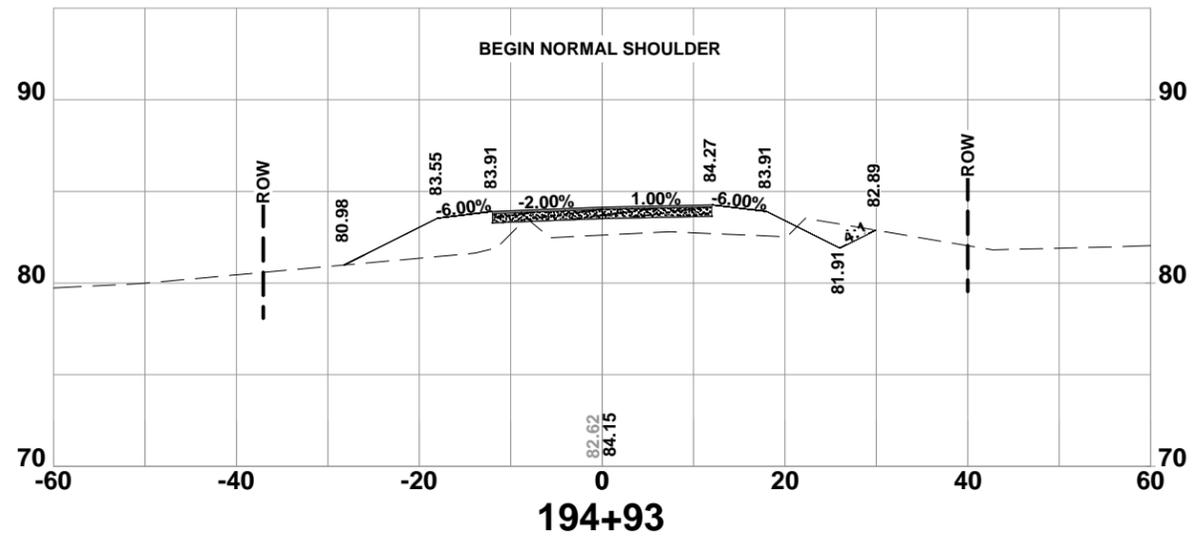
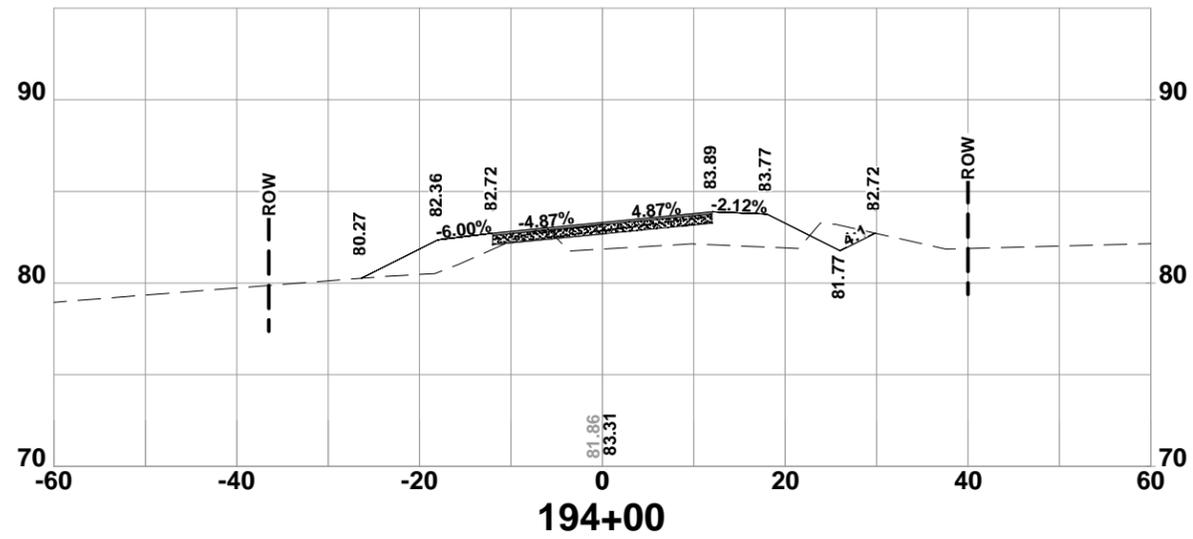
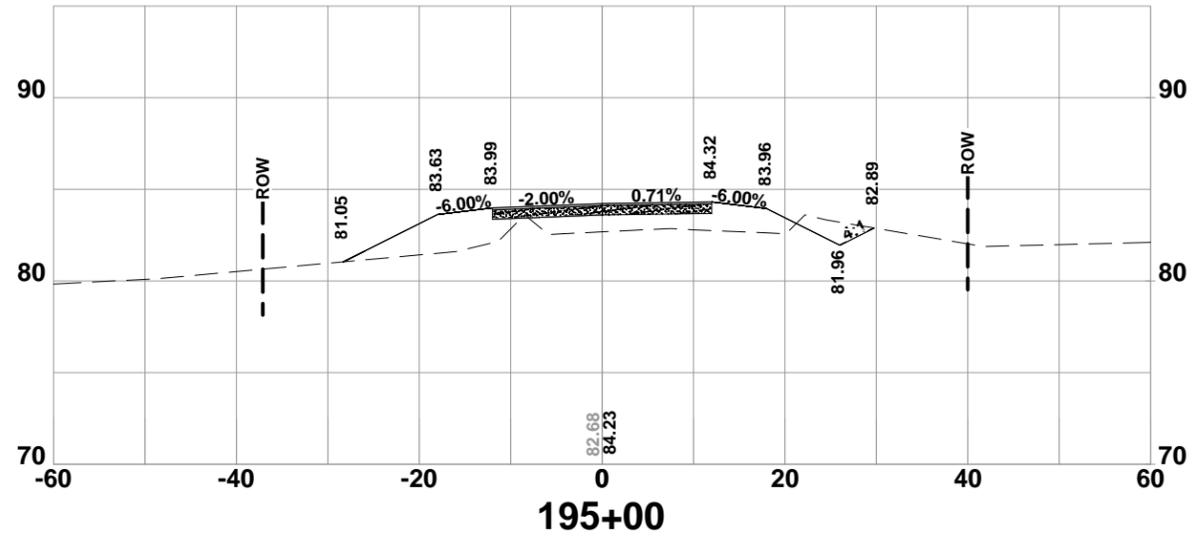
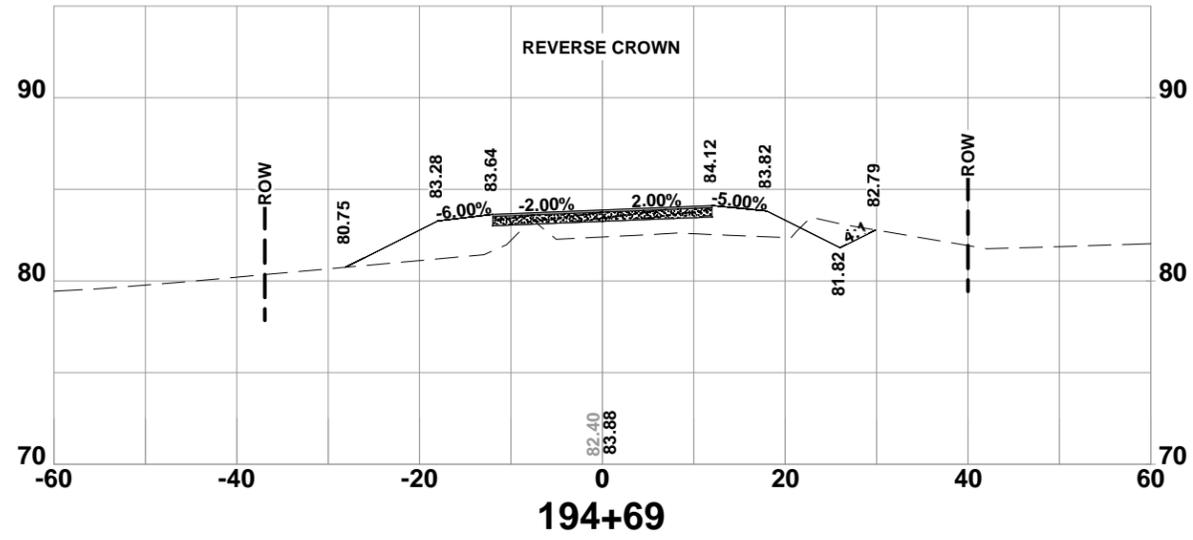


**CROSS SECTIONS**  
 SW HERLONG ST  
 COLUMBIA COUNTY, FLORIDA

North Florida Professional Services, Inc.  
 P.O. BOX 3823  
 Tallahassee, FL 32318  
 Ph. 877-335-1525  
 Fax. 386-752-4674  
 Eng. Lic. 29011

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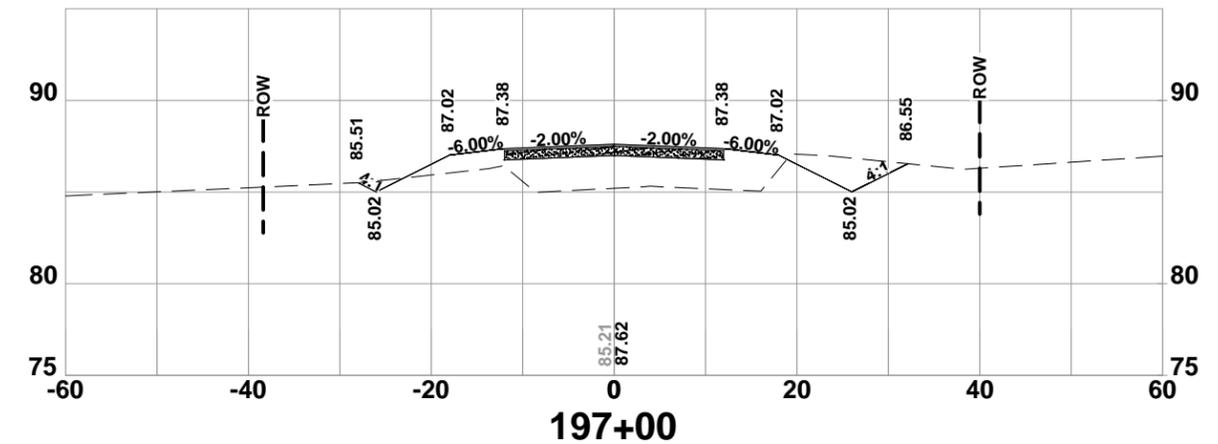
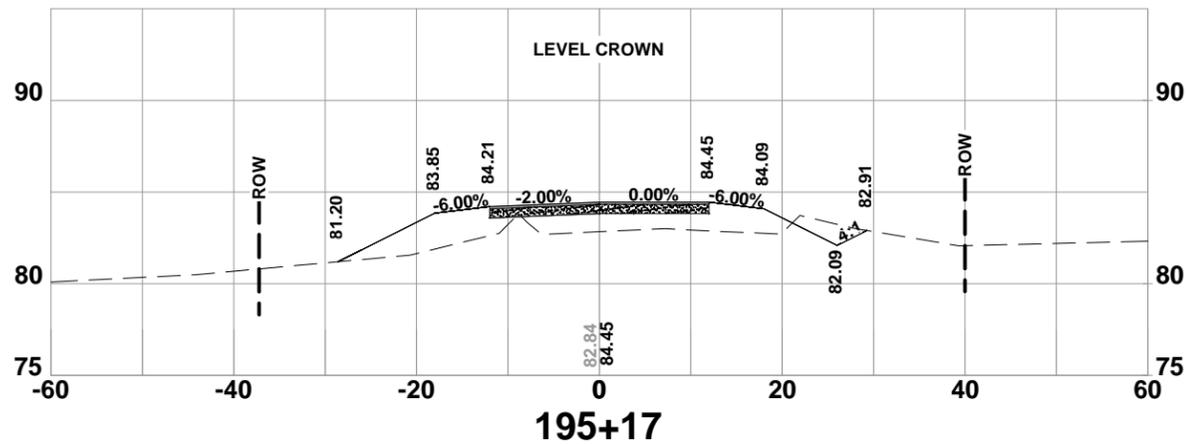
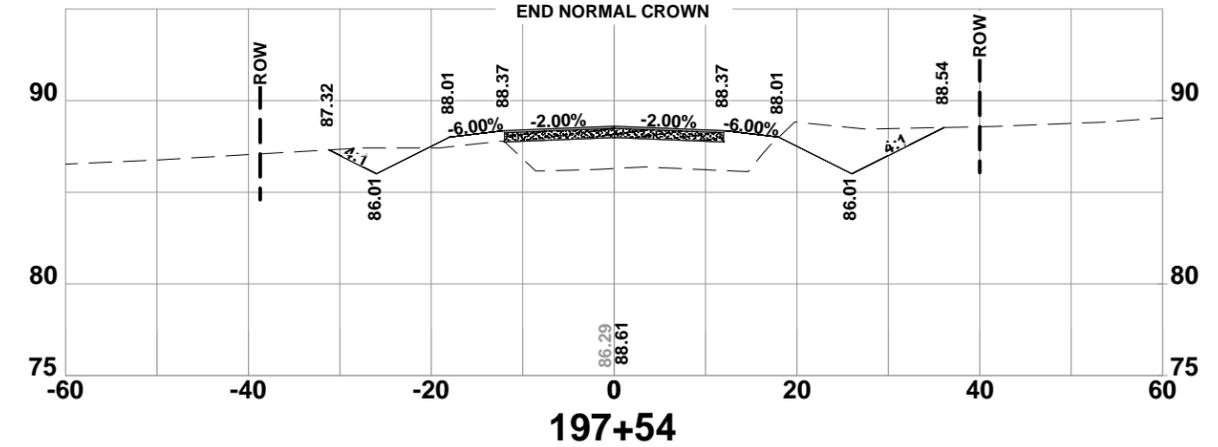
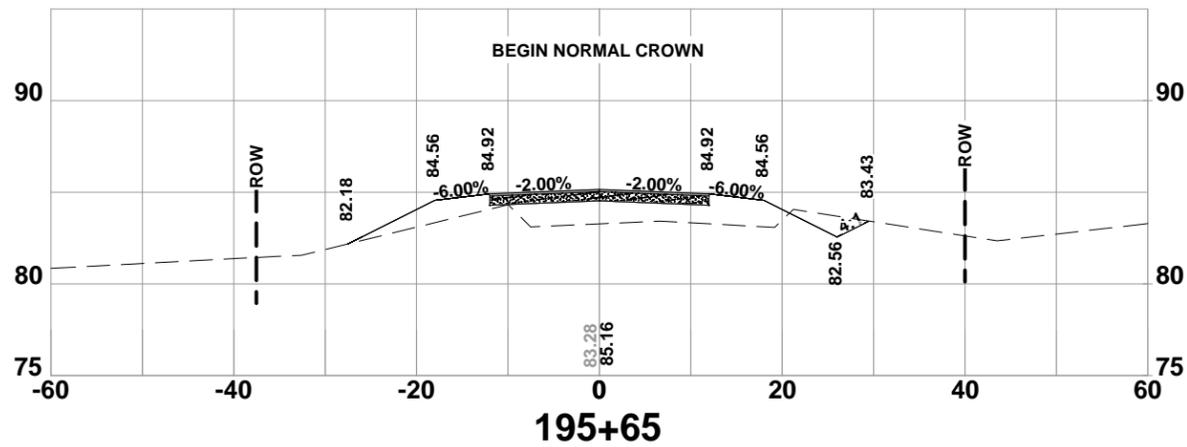
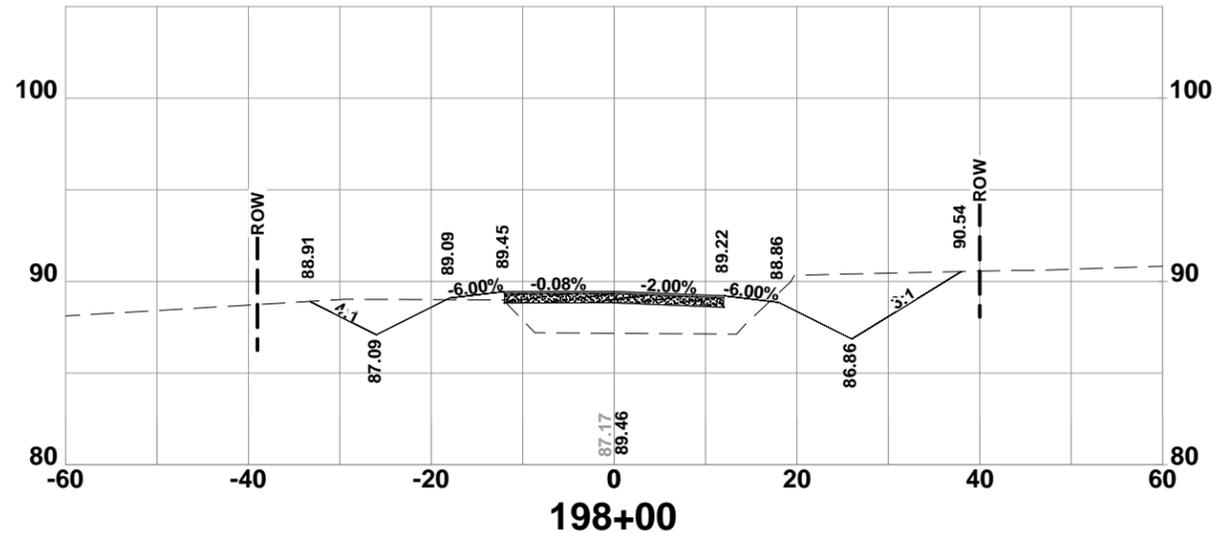
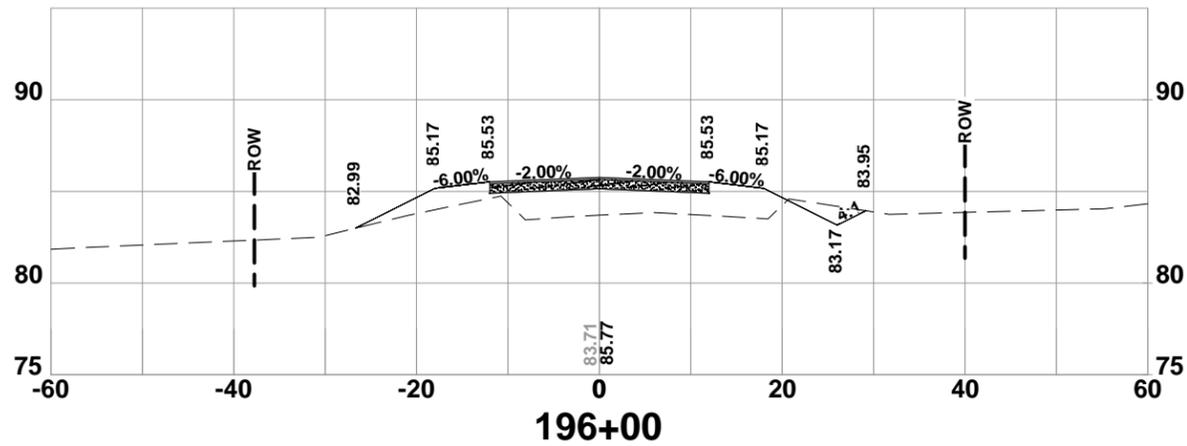
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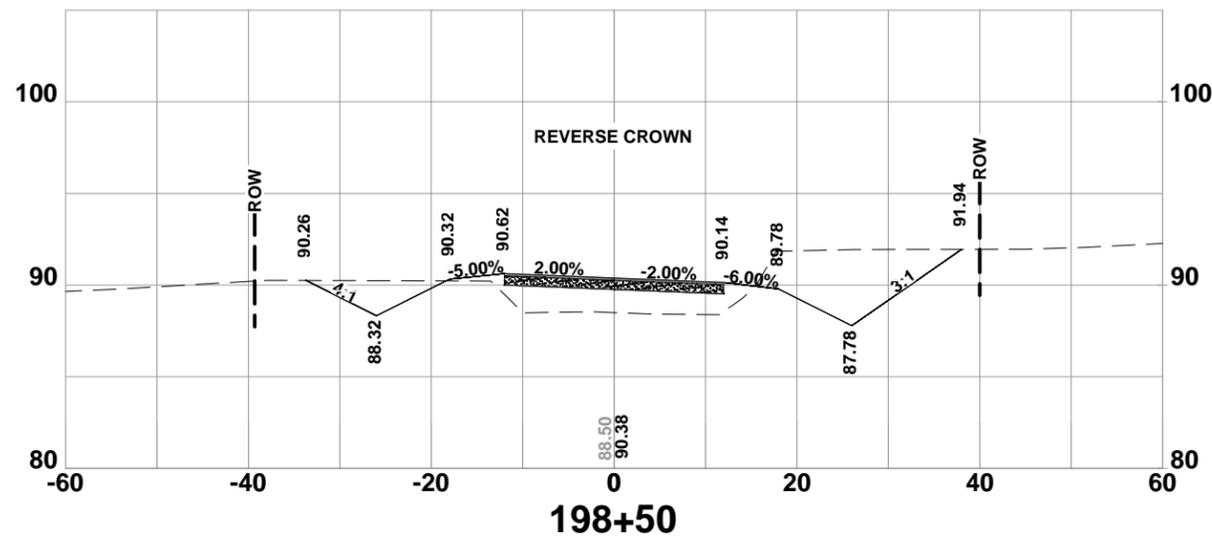
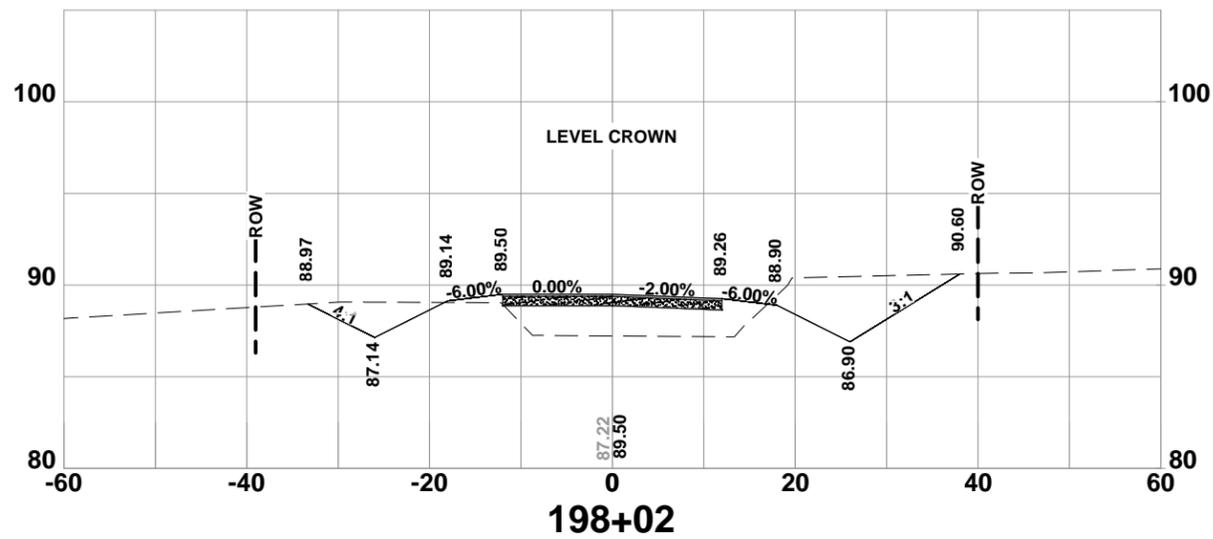
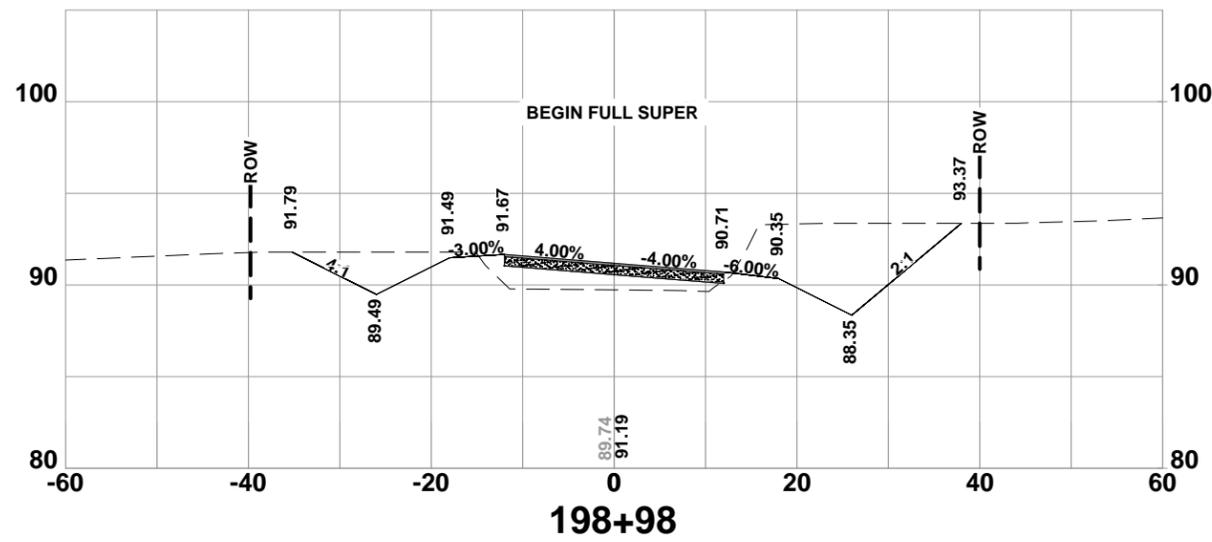
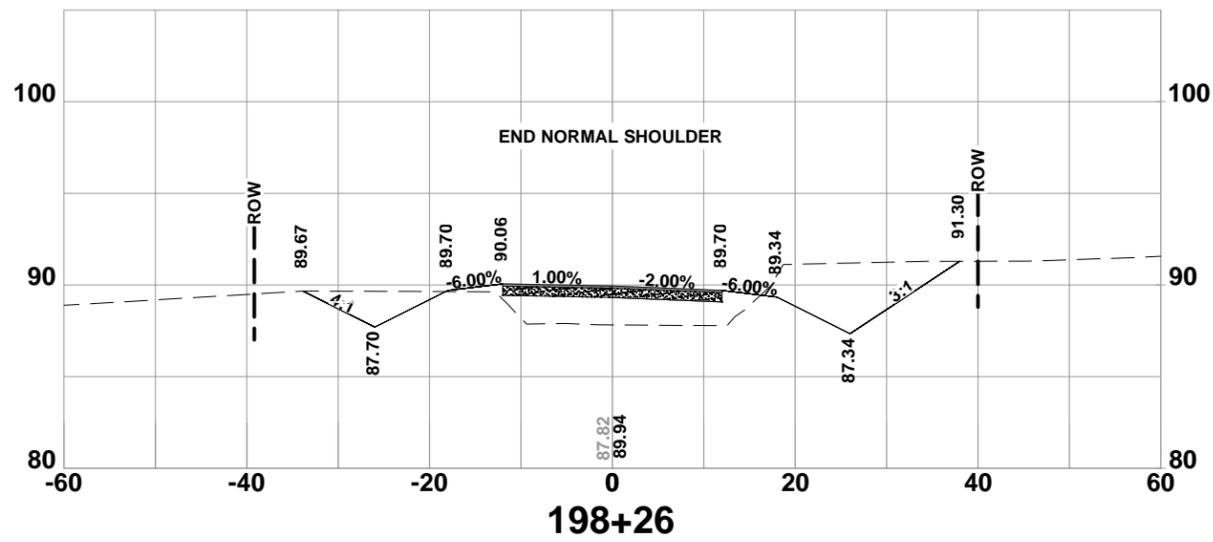
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		RD	GB

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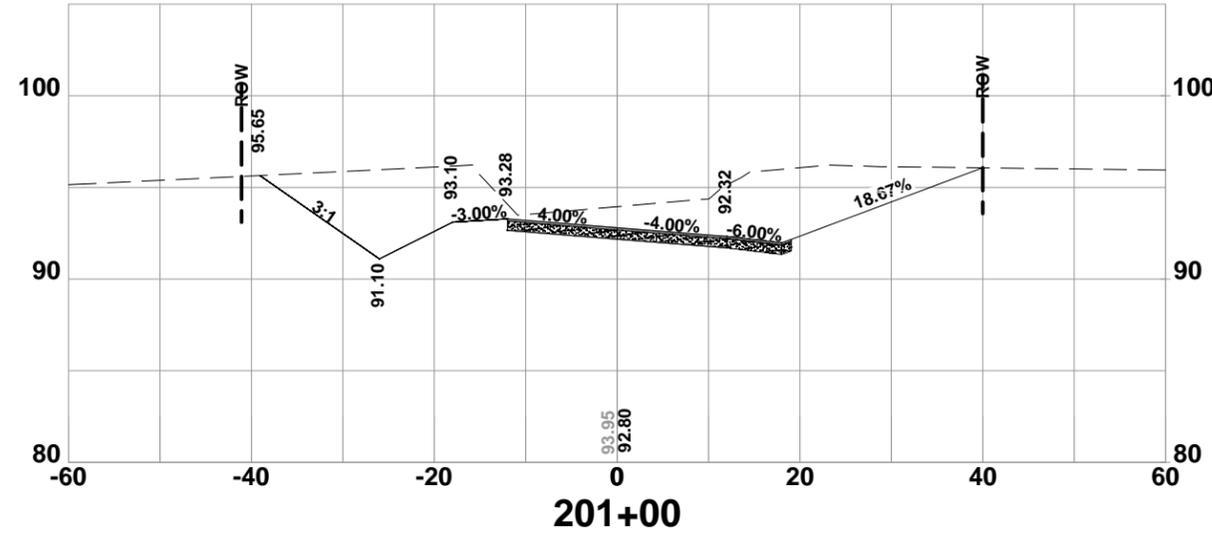
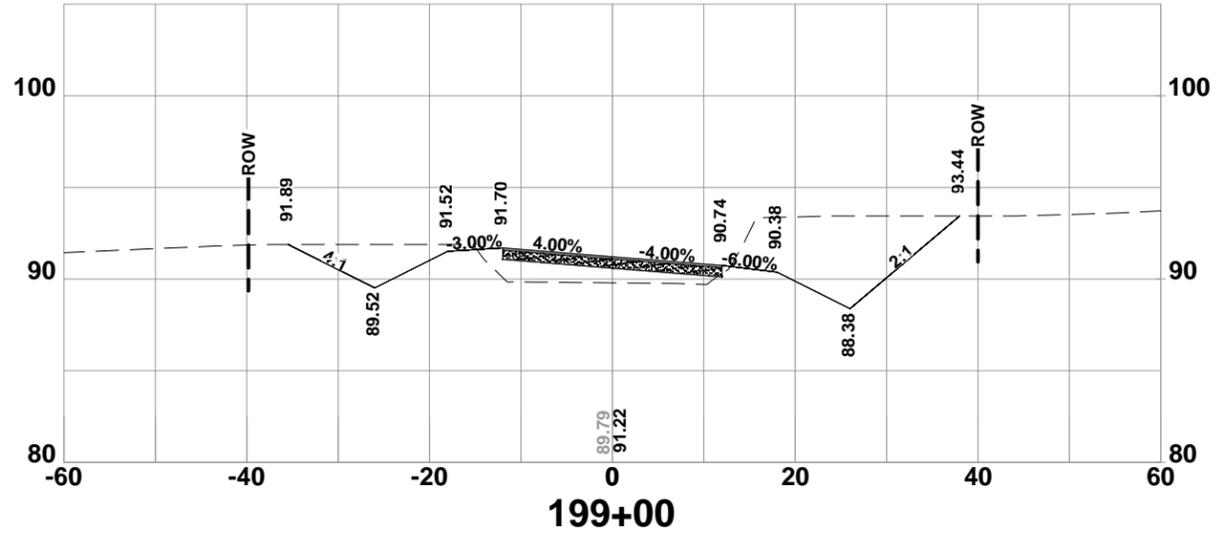
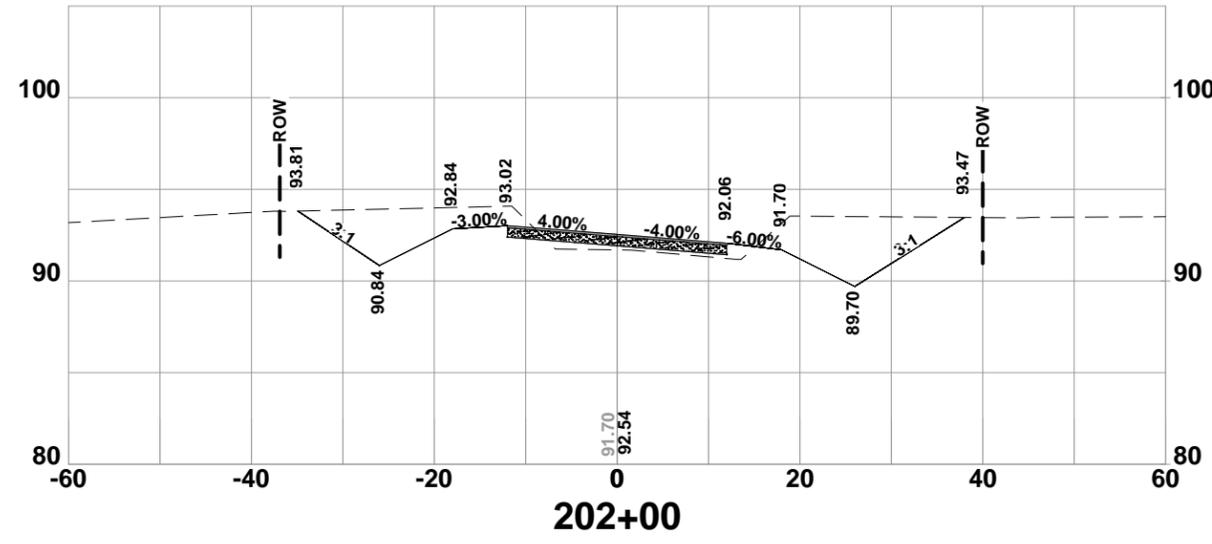
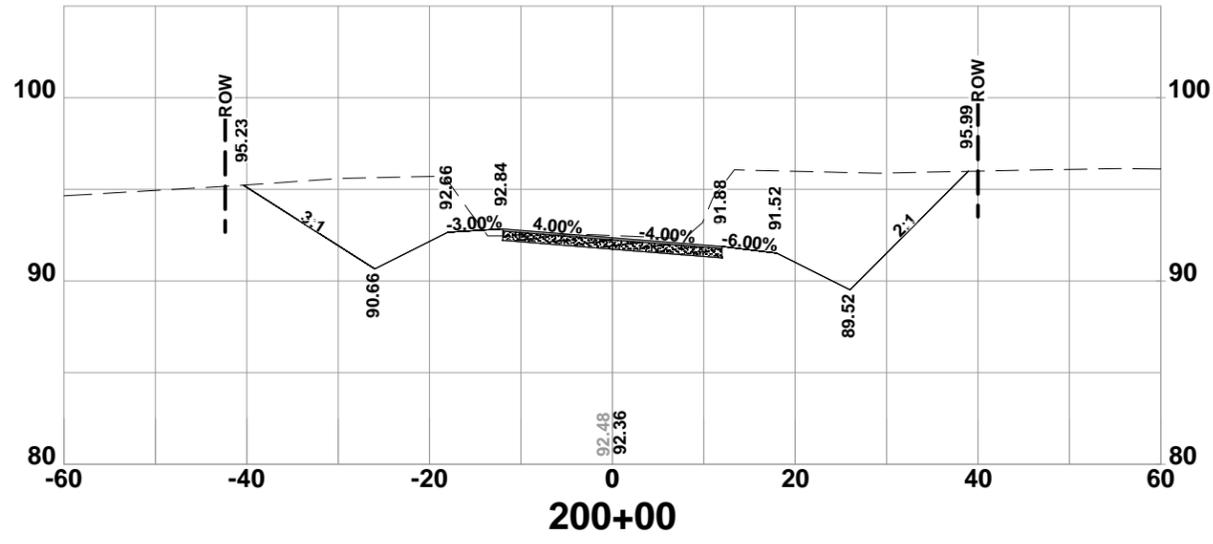
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3		GB	CHECKED BY

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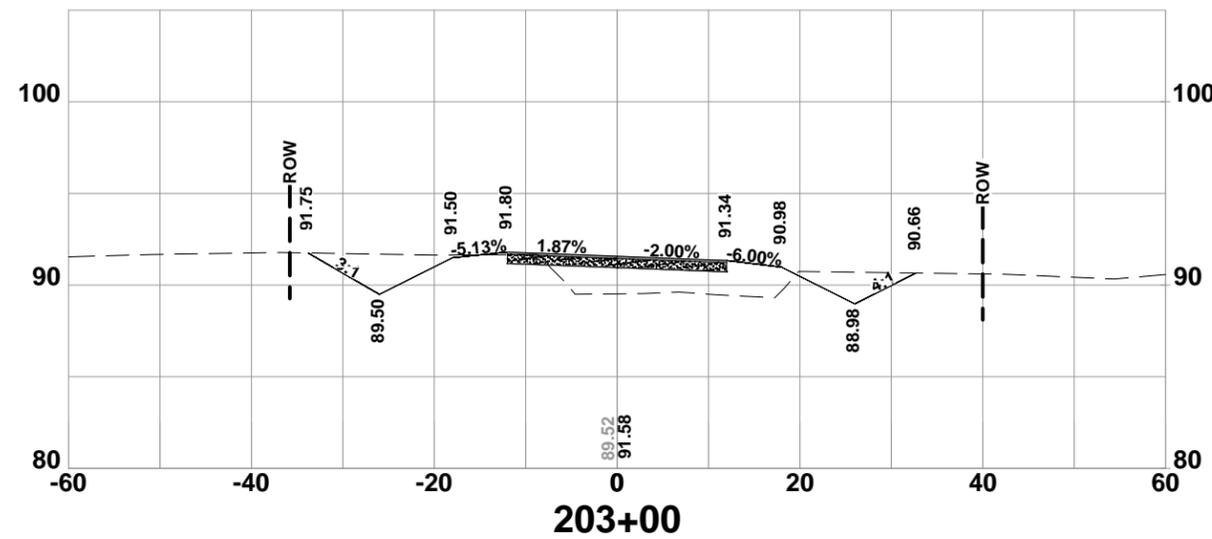
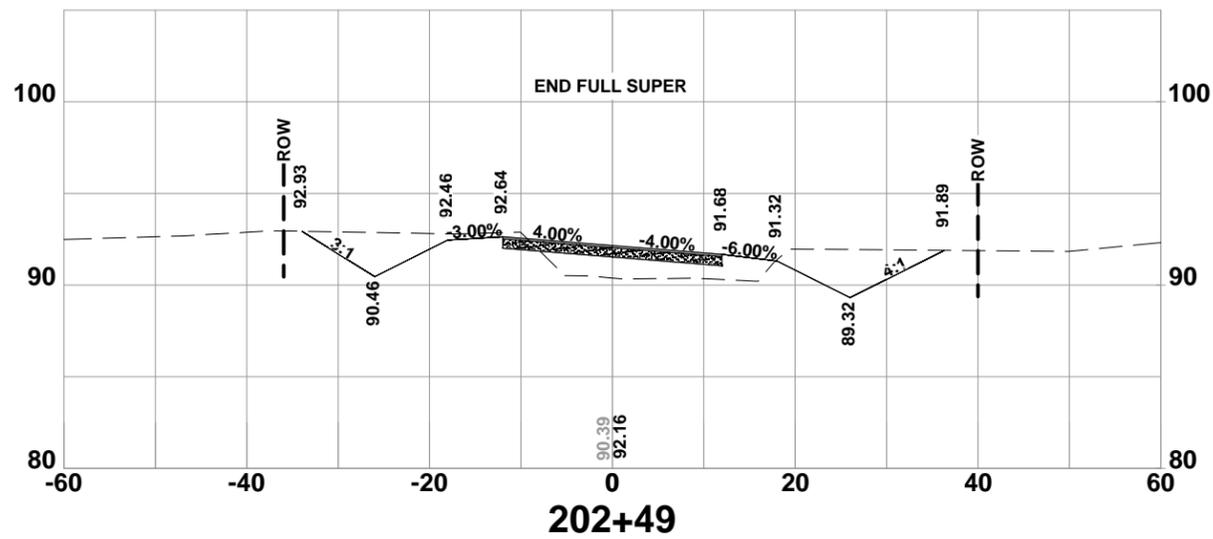
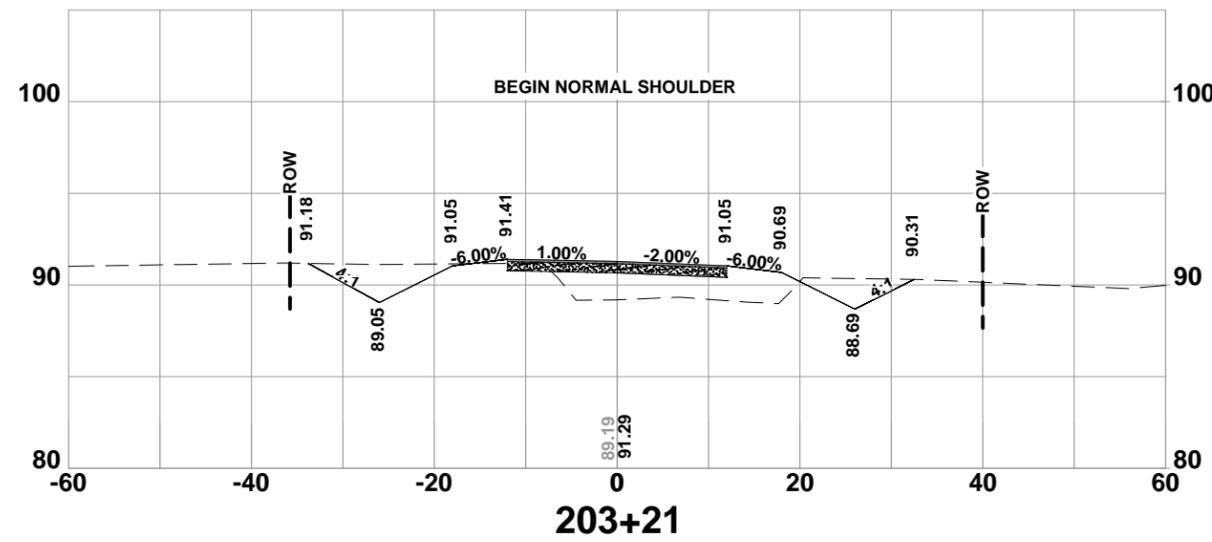
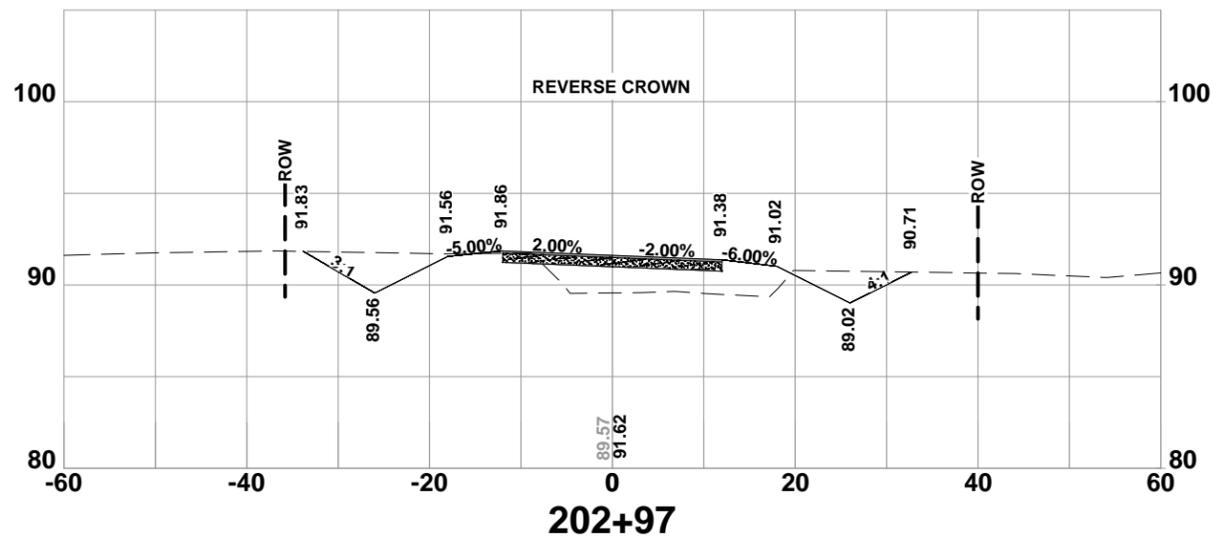
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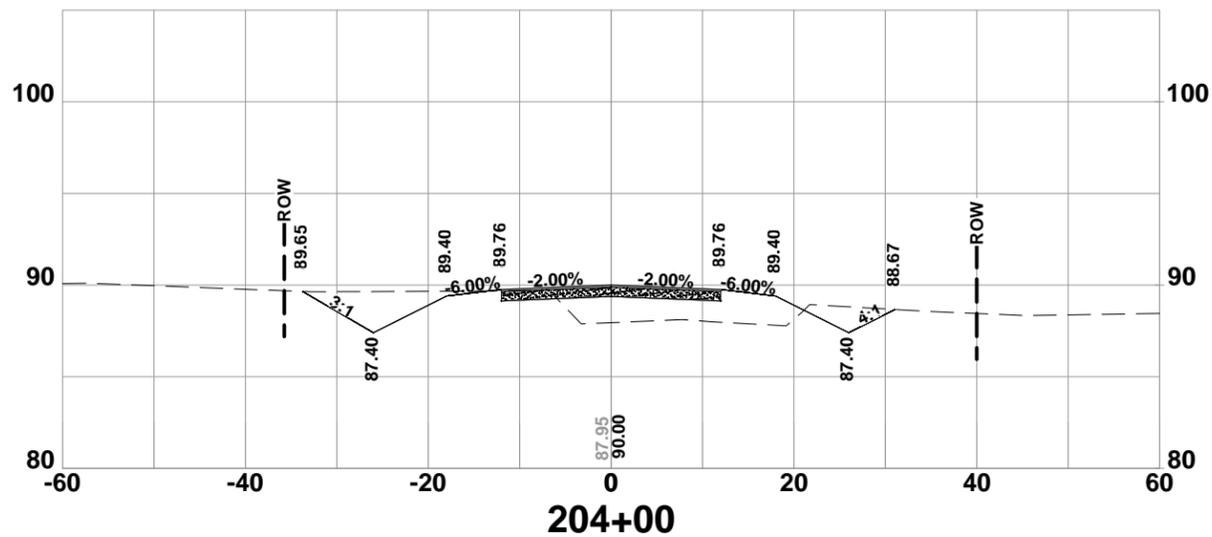
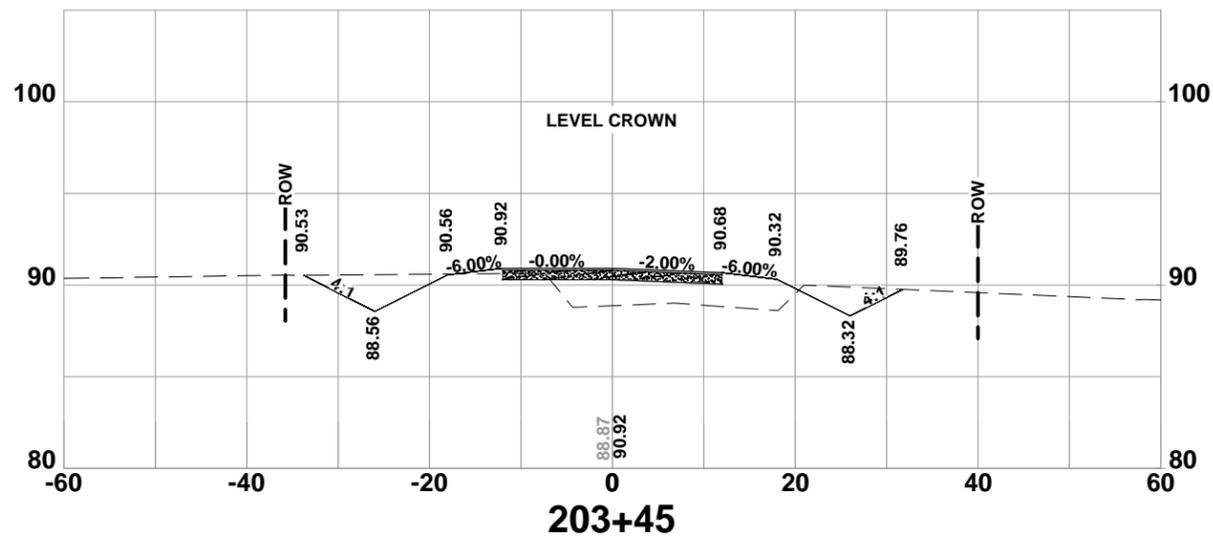
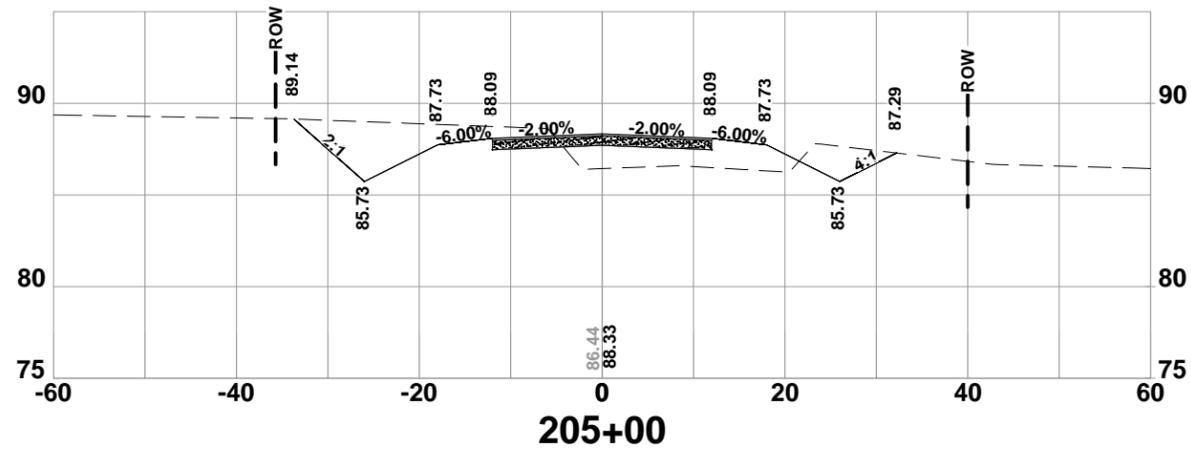
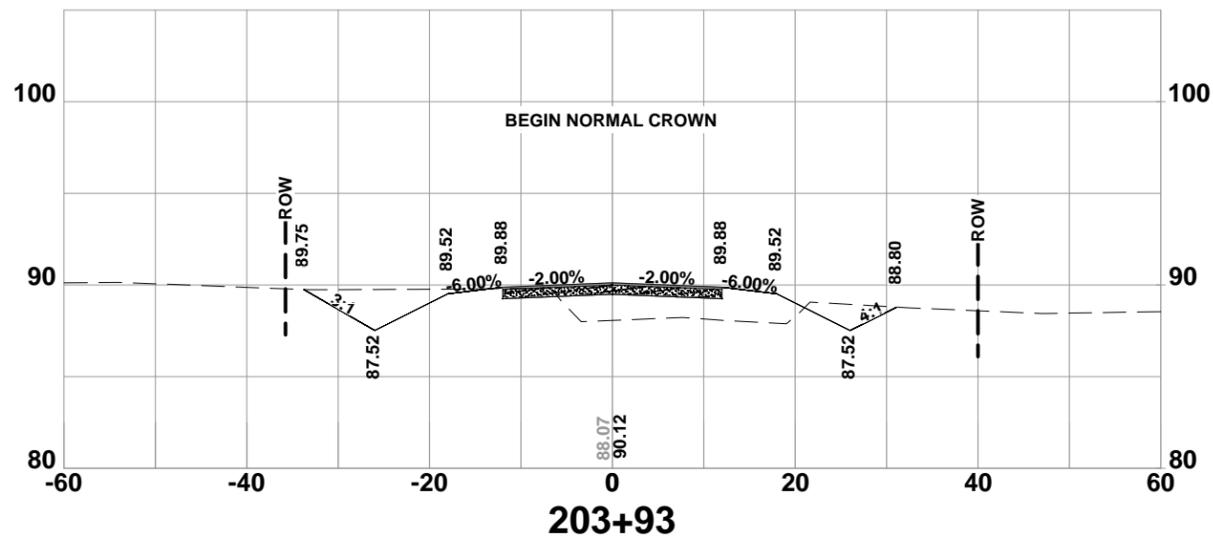


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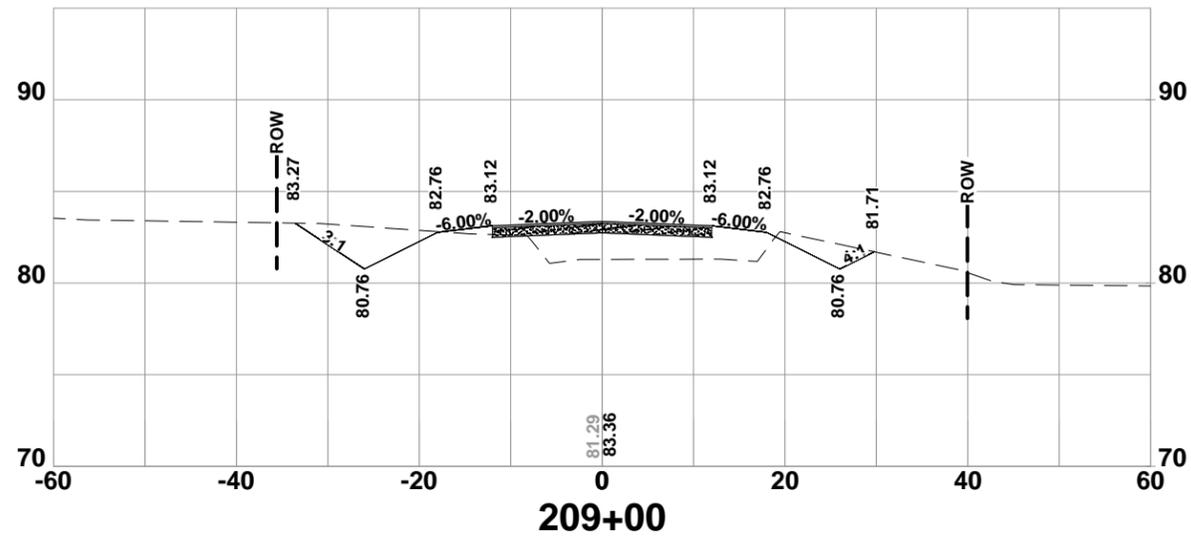
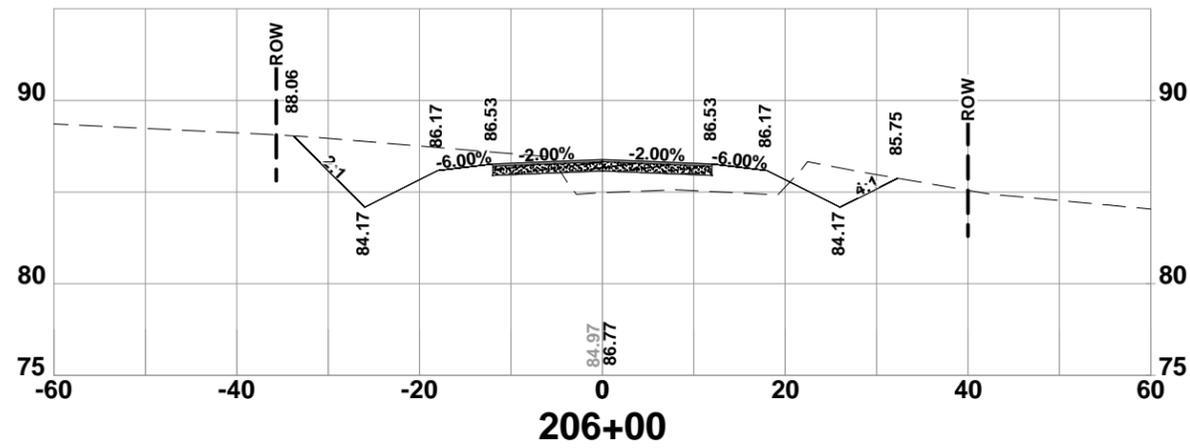
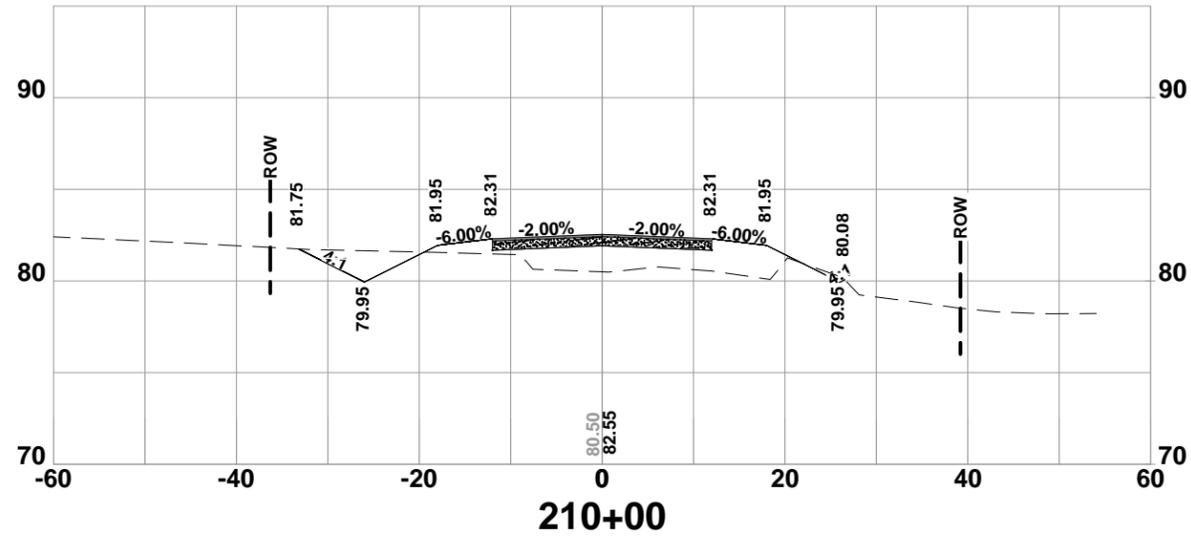
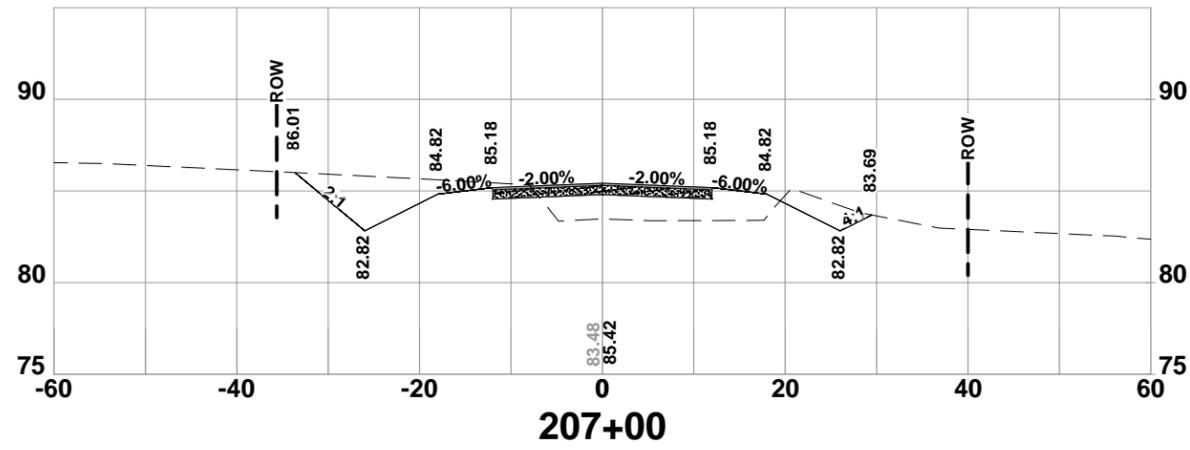
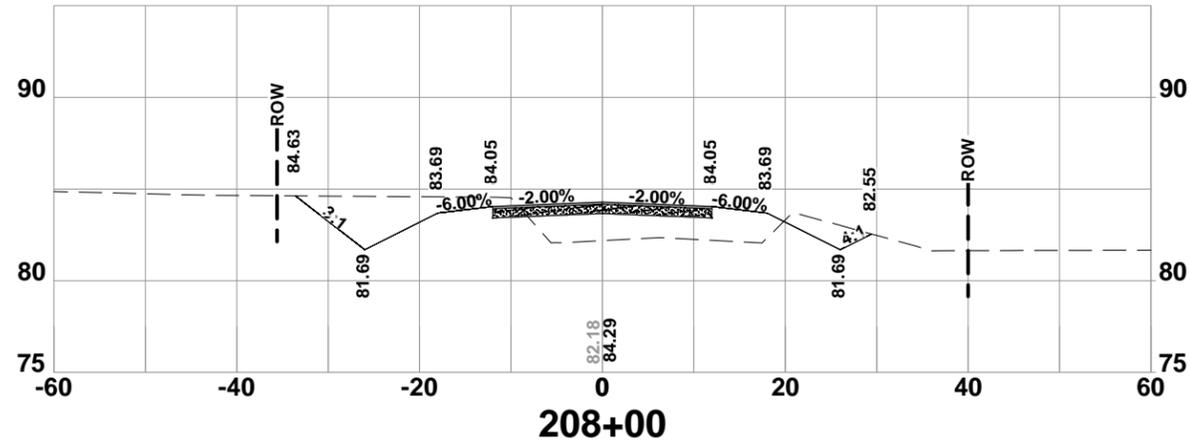
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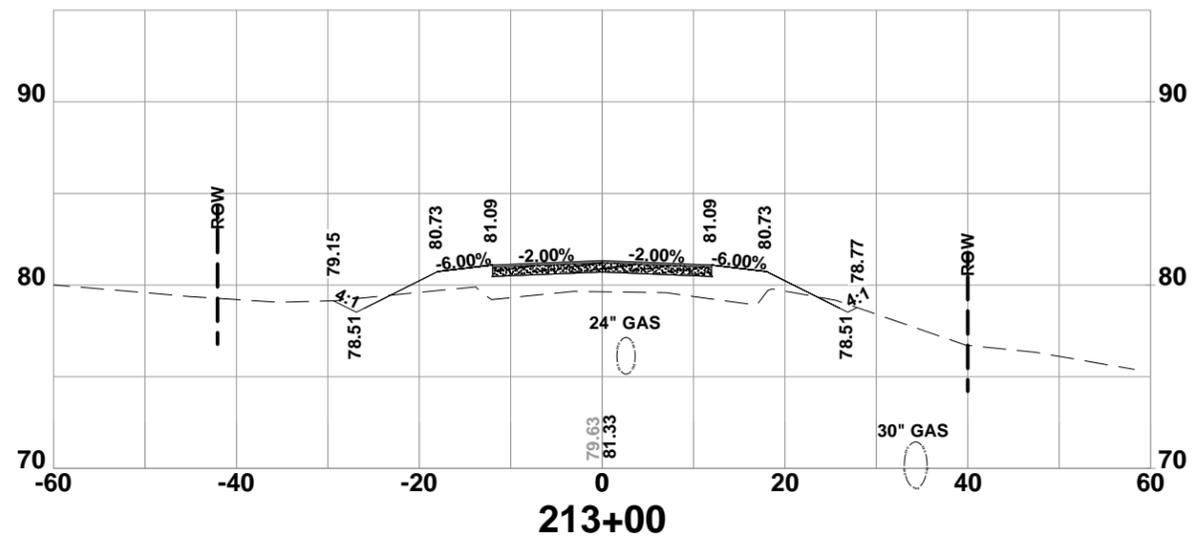
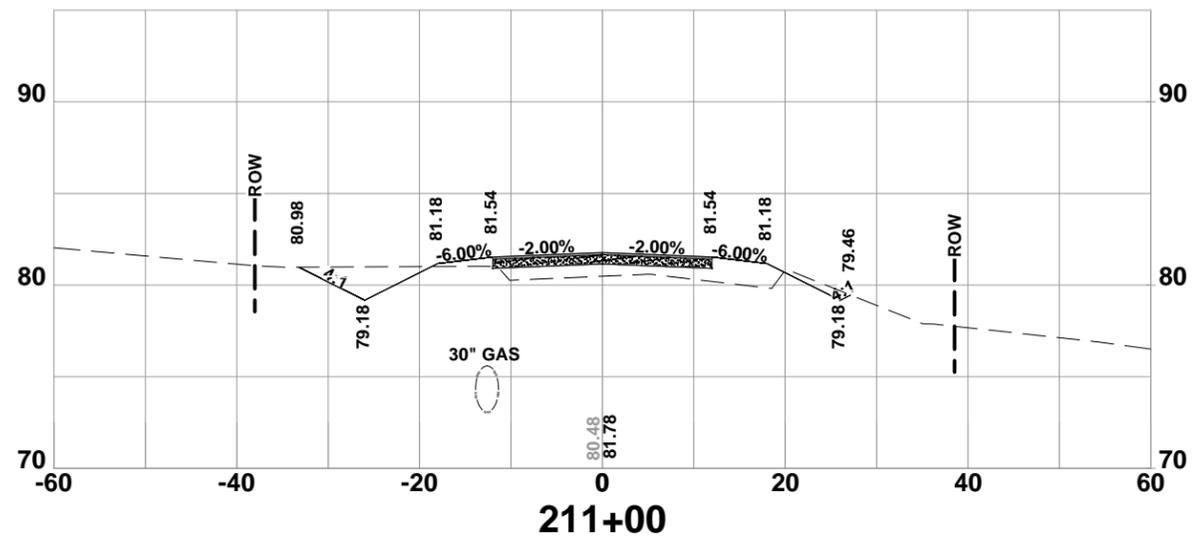
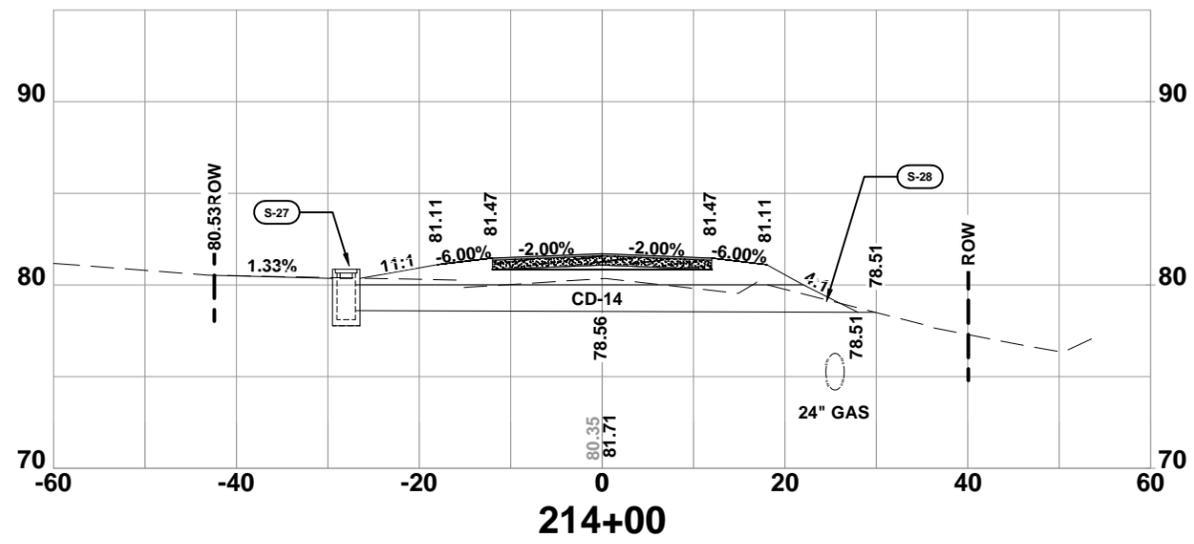
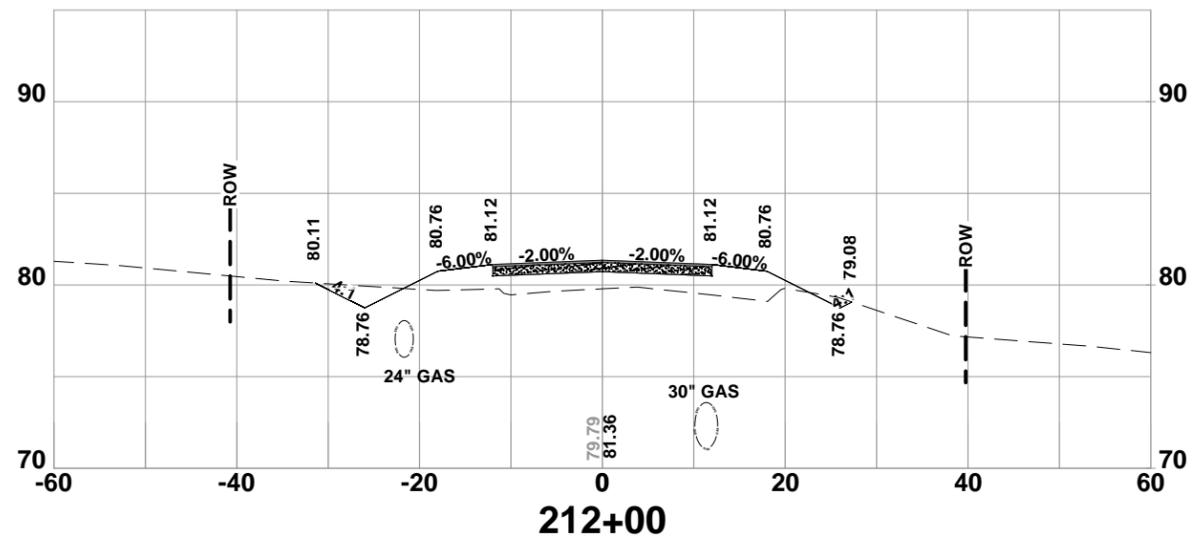
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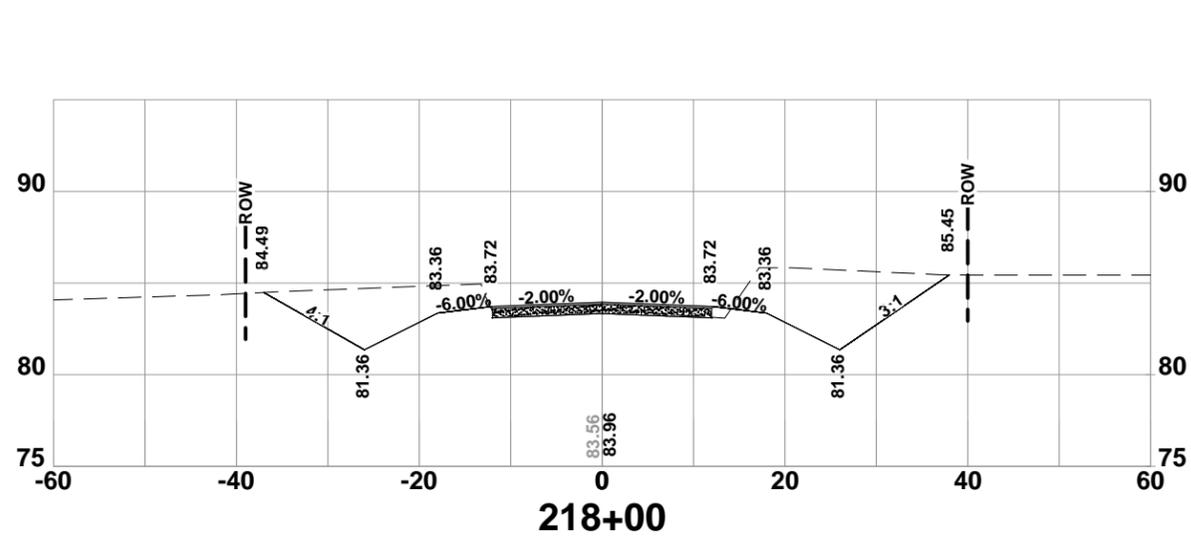
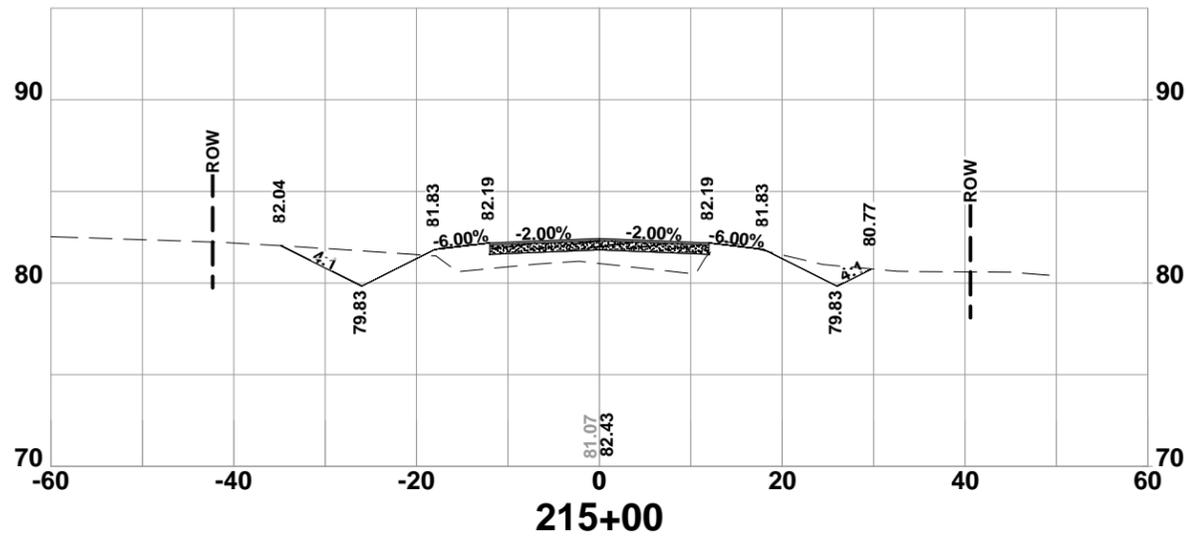
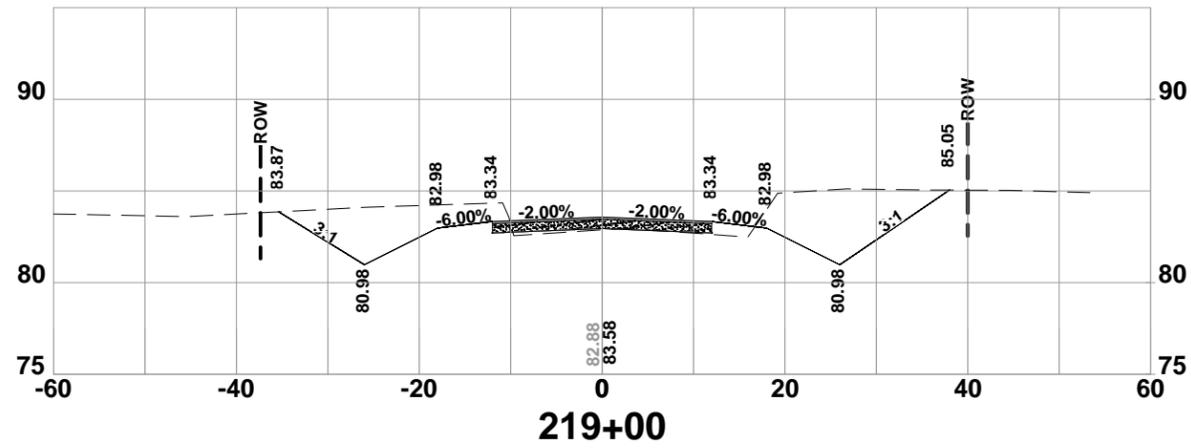
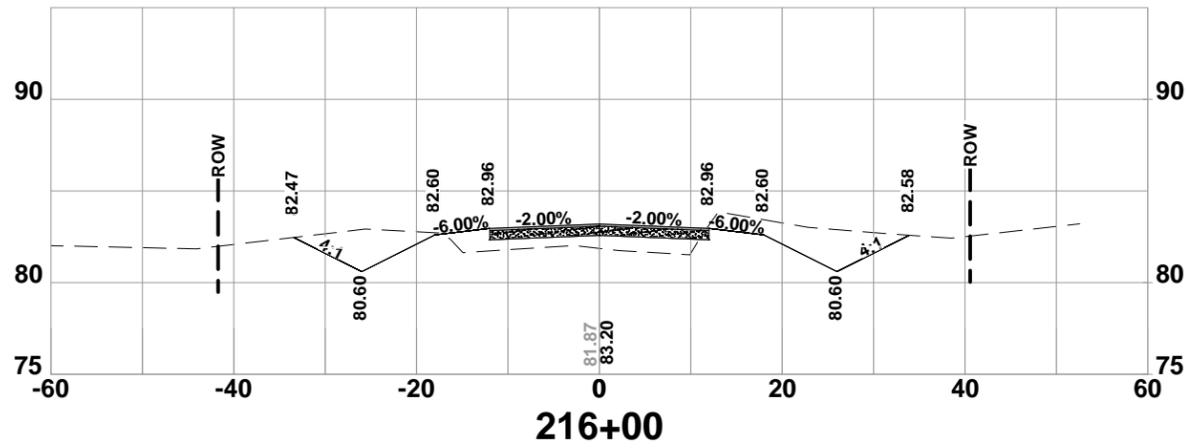
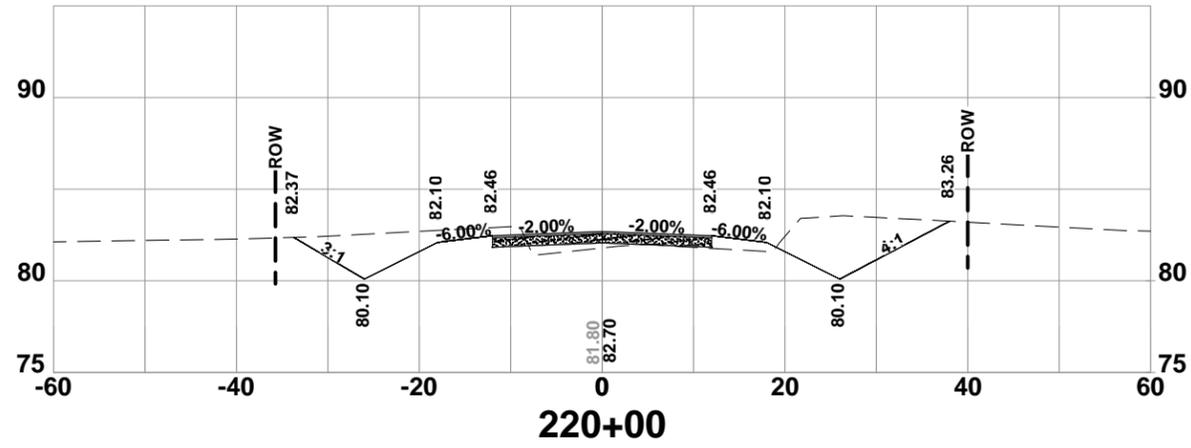
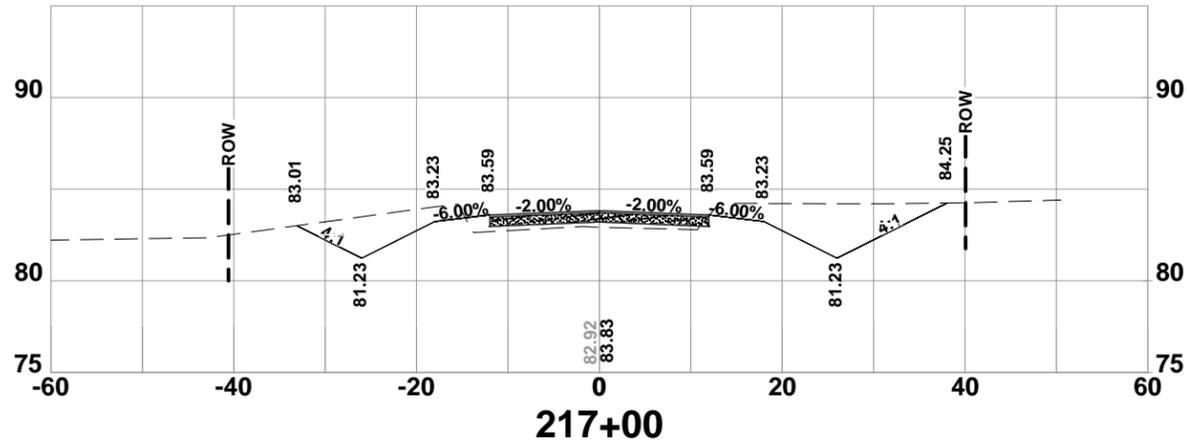
LOCATE AND PROTECT THE  
 GAS LINE LOCATIONS STA ± 210+05 TO STA ± 215+40  
 FLORIDA GAS TRANSMISSION CO.  
 CONTACT JOSEPH SANCHEZ (407) 838-7171



**CROSS SECTIONS**  
 SW HERLONG ST  
 COLUMBIA COUNTY, FLORIDA

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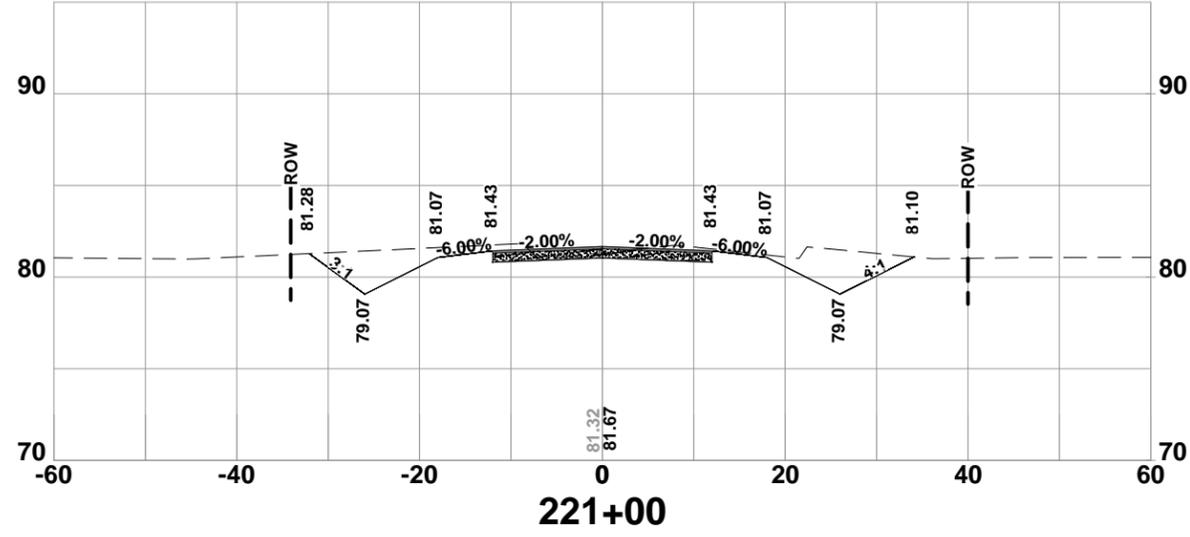


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 COLUMBIA COUNTY, FLORIDA

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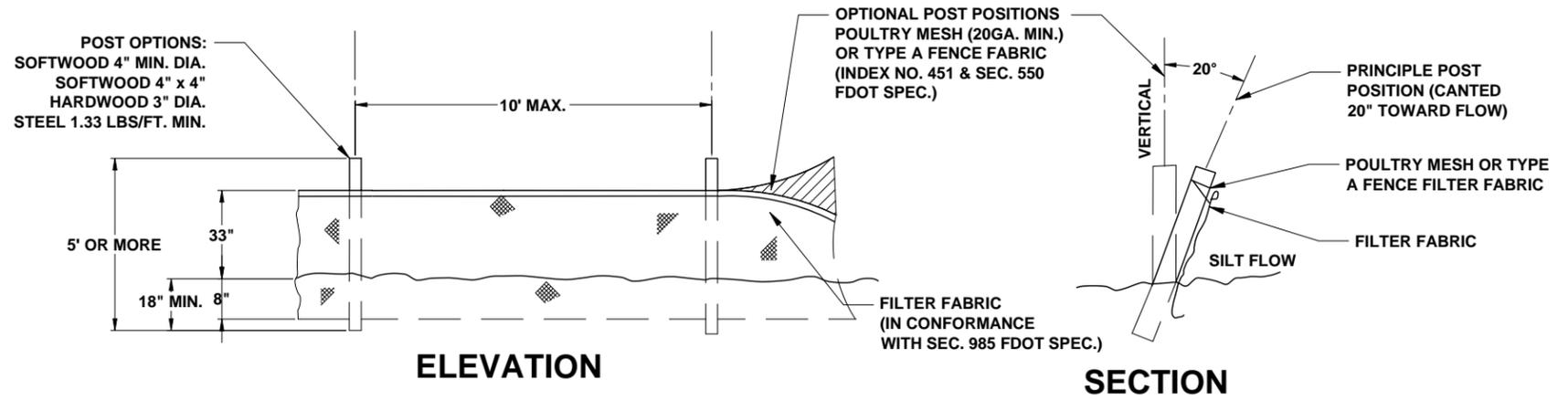
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 SW HERLONG ST  
 COLUMBIA COUNTY, FLORIDA



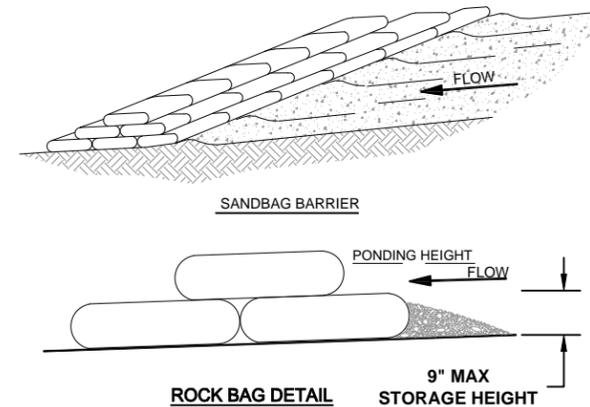
North Florida Professional Services, Inc.  
 P.O. BOX 3823  
 Lake City, FL 32025  
 Ph. 386-752-4675  
 Fax. 386-752-4674  
 Tallahassee, FL 32318  
 Ph. 877-335-1525  
 Eng. Lic. 29011

# EROSION CONTROL NOTES

- THIS EROSION AND SEDIMENTATION CONTROL PLAN COMPLIES WITH THE REQUIREMENTS OF THE "FLORIDA DEVELOPMENT MANUAL" AND THE "FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL".
- THE CONTRACTOR SHALL ADHERE TO COLUMBIA COUNTY, SRWMD, AND OTHER GOVERNING AUTHORITIES FOR EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACTOR SHALL USE BMP'S FROM THE "FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL".
- THE CONTRACTOR SHALL ADJUST AND REVISE THIS PLAN TO MEET ACTUAL FIELD CONDITIONS. ANY REVISIONS SHALL BE APPROVED BY THE REVIEWING AGENCIES.
- SEDIMENT AND EROSION CONTROL FACILITIES, STORM DRAINAGE FACILITIES AND DETENTION BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
- EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL AND REPLACED AS NECESSARY.
- SEDIMENT AND EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION IS COMPLETE AND UNTIL A PERMANENT GROUND COVER HAS BEEN ESTABLISHED.
- ALL OPEN DRAINAGE SWALES SHALL BE GRASSED AND RIPRAP SHALL BE PLACED AS REQUIRED TO CONTROL EROSION.
- SILT FENCES SHALL BE LOCATED ON SITE TO PREVENT SEDIMENT AND EROSION FROM LEAVING PROJECT LIMITS.
- CONTRACTOR SHALL PLACE A DOUBLE ROW OF SILT FENCE IN AREAS WHERE RUNOFF FROM DISTURBED AREAS MAY ENTER WETLANDS.
- DURING CONSTRUCTION AND AFTER CONSTRUCTION IS COMPLETE, ALL STRUCTURES SHALL BE CLEANED OF ALL DEBRIS AND EXCESS SEDIMENT.
- ALL GRADED AREAS SHALL BE STABILIZED IMMEDIATELY WITH A TEMPORARY FAST-GROWING COVER AND/OR MULCH.
- A PAD OF RUBBLE RIP RAP SHALL BE PLACED AT THE BOTTOM OF ALL COLLECTION FLUMES AND COLLECTION PIPE OUTLETS. GRANITE OR LIMESTONE RIPRAP IS REQUIRED, NO BROKEN CONCRETE WILL BE ACCEPTED.
- ALL SIDE SLOPES STEEPER THAN 3:1 SHALL BE ADEQUATELY PROTECTED FROM EROSION THROUGH THE USE OF HAY BALES OR SODDING.
- ALL STABILIZATION PRACTICES SHALL BE INITIATED AS SOON AS PRACTICABLE IN AREAS OF THE JOB WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY STOPPED, BUT IN NO CASE SHALL THE DISTURBED AREA BE LEFT UNPROTECTED FOR MORE THAN SEVEN DAYS.
- ALL WASTE GENERATED ON THE PROJECT SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY CONTRACTOR.
- LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPS.
- EXCESS DIRT SHALL BE REMOVED DAILY.
- THIS PROJECT SHALL COMPLY WITH ALL WATER QUALITY STANDARDS. PERMIT REQUIRED FROM SRWMD HAS BEEN OBTAINED.
- QUALIFIED PERSONNEL SHALL INSPECT THE AREA USED FOR STORAGE OF STOCKPILES, THE SILT FENCE AND STRAW BALES, THE LOCATION WHERE VEHICLES ENTER OR EXIT THE SITE, AND THE DISTURBED AREAS THAT HAVE NOT BEEN FINALLY STABILIZED, AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM OF 0.25 INCHES OR GREATER.
- SITES THAT HAVE BEEN FINALLY STABILIZED WITH SOD OR GRASSING SHALL BE INSPECTED AT LEAST ONCE EVERY WEEK.



**1 TYPE IV SILT FENCE**  
SCALE:N.T.S.



NOTES:

- A 'REASONABLE' DESIGN SIZE PARTICLE MUST BE SELECTED.
- SIZE DISTRIBUTION OR UPSTREAM SOIL PARTICLES MUST BE EVALUATED.
- INFLOW AND OUTFLOW FROM THE SYSTEM FOR A SPECIFIC FREQUENCY STORM MUST BE KNOWN.
- POND VOLUME IS DIRECTLY PROPORTIONAL TO THE DISCHARGE RATE OF THE SYSTEM.
- POND VOLUME IS INVERSELY PROPORTIONAL TO THE MASS OF THE DESIGN SIZE SUSPENDED PARTICLE.
- A SYSTEM MUST PROVIDE SUFFICIENT FLOW TO ALLOW FOR DEPOSITION OF DESIGN PARTICLES.
- THE PONDING HEIGHT MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.
- ROCK BAG SILT BARRIER SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE POUNDING EFFICIENCY.
- PLACE ROCK BAG SUCH THAT NO GAPS ARE EVIDENT.
- INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" MAXIMUM RECOMMENDED STORAGE HEIGHT.
- REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

**2 ROCK BAGS**  
SCALE:N.T.S.

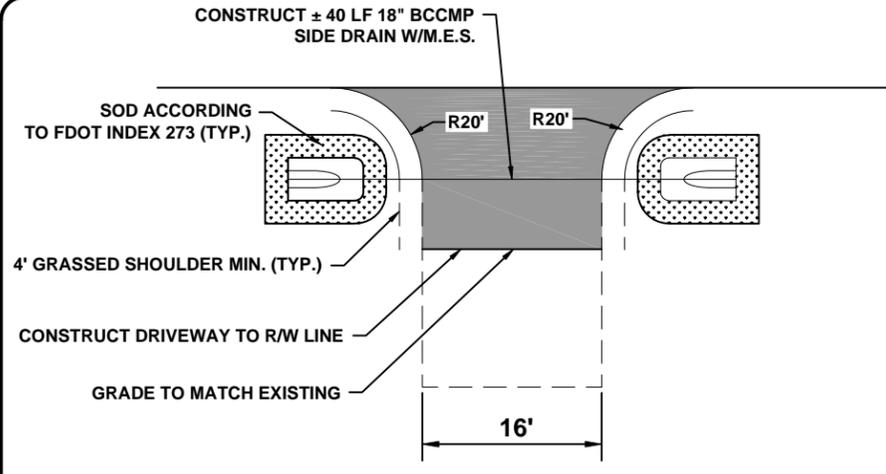
North Florida Professional Services, Inc.  
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Lake City, FL 32025  
Ph. 386-752-4675  
Fax. 386-752-4674



**EROSION CONTROL NOTES & DETAILS**  
SW HERLONG STREET  
COLUMBIA COUNTY, FLORIDA

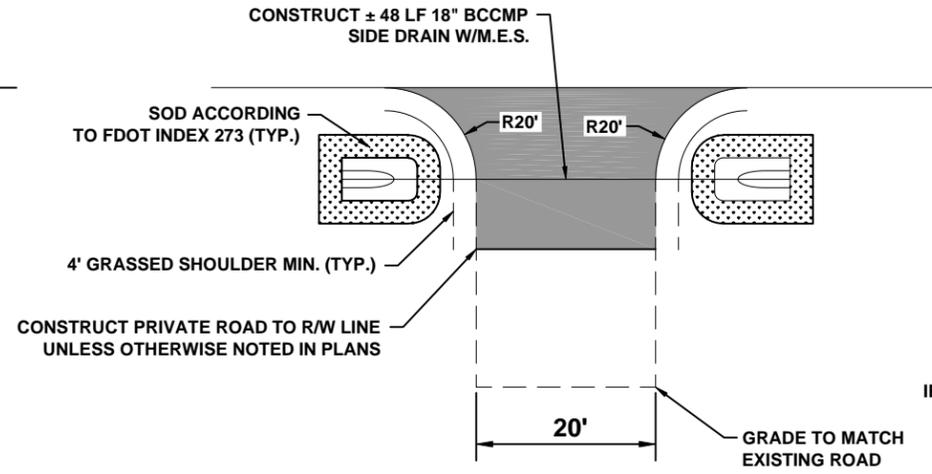
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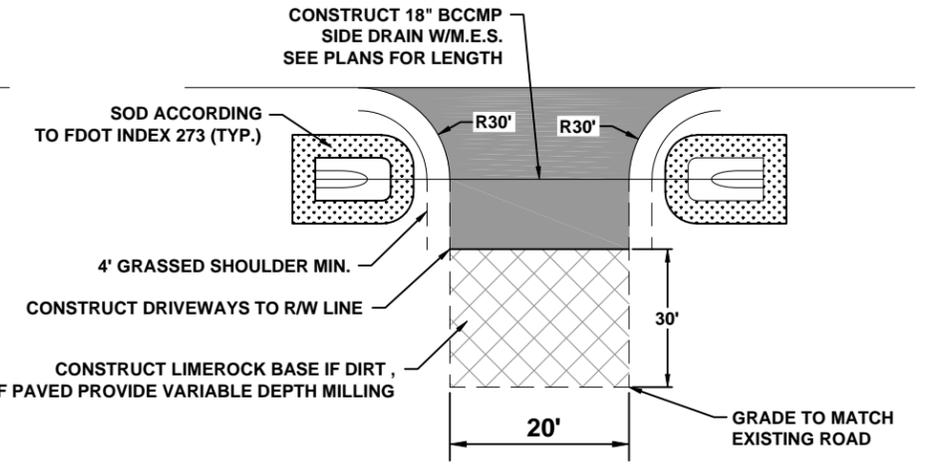
HATCHING DENOTES  
PAVEMENT SHALL BE 165#/SY TYPE SP-12.5 SURFACE COURSE  
TRAFFIC LEVEL "B" ASPHALTIC CONCRETE  
OPTIONAL BASE GROUP 4

**1 PRIVATE DRIVE CONNECTION**  
SCALE:N.T.S.



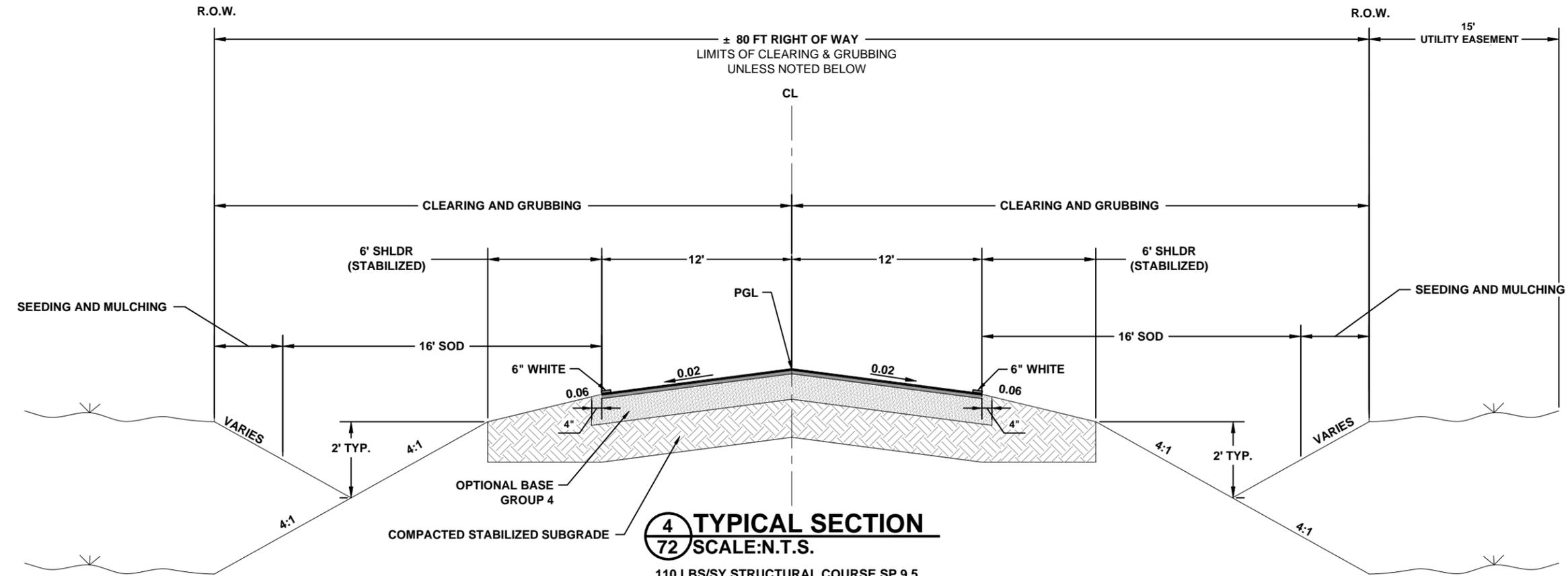
HATCHING DENOTES  
PAVEMENT SHALL BE 165#/SY TYPE SP-12.5 SURFACE COURSE  
TRAFFIC LEVEL "B" ASPHALTIC CONCRETE  
OPTIONAL BASE GROUP 4

**2 PRIVATE ROAD CONNECTION**  
SCALE:N.T.S.



HATCHING DENOTES  
PAVEMENT SHALL BE 165#/SY TYPE SP-12.5 SURFACE COURSE  
TRAFFIC LEVEL "B" ASPHALTIC CONCRETE  
OPTIONAL BASE GROUP 4

**3 DIRT/PAVED COUNTY ROAD CONNECTION**  
SCALE:N.T.S.



**4 TYPICAL SECTION**  
SCALE:N.T.S.

110 LBS/SY STRUCTURAL COURSE SP 9.5  
165 LBS/SY STRUCTURAL COURSE SP 12.5  
TRAFFIC LEVEL "B" ASPHALTIC CONCRETE  
OPTIONAL BASE GROUP 4  
12" COMPACTED STABILIZED SUBGRADE  
MINIMUM L.B.R. 40

STA. 10+51.62 TO 221+94.14  
DESIGN SPEED = 50 MPH

**ADDITIONAL 15' CLEARING/GRUBBING  
FOR ELECTRICAL EASEMENTS**

STA. 62+60 TO 85+20 (RT)  
STA. 179+10 TO 206+50 (RT)

**NOTES:**

- SEE PLAN & PROFILE SHEETS FOR SPECIAL DITCH PROFILES.
- PAVEMENT MARKINGS SHALL BE PLACED IN TWO APPLICATIONS.

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Date Last Saved: February 17, 2015  
Date Plotted: February 18, 2015

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**ROADWAY DETAILS**  
SW HERLONG STREET  
COLUMBIA COUNTY, FLORIDA

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JOB NUMBER: L140602CCB  
DATE: 11/24/08  
SHEET NO. 72

BM	STATION	OFFSET	ELEVATION	DESCRIPTION
BM2	15+95.23	11.80'	77.819	NAIL IN 10" CHERRY TREE
BM3	26+53.98	6.11'	73.052	RR SPIKE IN 30" OAK TREE
BM4	32+96.67	-2.68'	88.677	RR SPIKE IN 10" OAK TREE
BM5	38+03.85	-36.87'	85.018	NAIL IN 6" OAK TREE
BM6	43+87.79	43.02'	80.236	TOP OF IRON REBAR & CAP
BM7	51+63.83	-8.28'	85.449	NAIL IN 6" OAK TREE
BM8	56+67.66	-9.23'	86.838	NAIL IN 8" OAK TREE
BM9	61+51.53	-9.39'	89.274	NAIL IN 8" PINE TREE
BM10	62+50.52	132.21'	89.534	RR SPIKE IN CENTERLINE OF HILLTOP TERRACE
BM11	65+54.29	-7.04'	89.132	RR SPIKE IN 7" OAK TREE
BM12	71+86.45	-40.88'	82.667	TOP OF IRON REBAR & CAP (ROANOKE)
BM13	75+23.86	-21.99'	84.262	NAIL IN 10" OAK TREE
BM14	80+26.89	94.93'	86.603	RR SPIKE IN CENTERLINE OF PAVEMENT (SKYLINE LOOP)
BM15	84+76.23	87.05'	92.351	RR SPIKE IN TWIN 8" OAK TREE
BM16	89+40.93	32.66'	92.522	TOP OF IRON REBAR & CAP
BM17	95+11.00	21.94'	91.953	TOP OF CONCRETE MONUMENT
BM18	100+15.62	-14.26'	91.558	RR SPIKE IN 12" OAK TREE
BM19	105+95.25	40.93'	87.650	TOP OF IRON REBAR & CAP
BM20	110+31.82	-86.17'	84.366	RR SPIKE IN 8" OAK TREE
BM21	113+45.68	-16.40'	91.643	RR SPIKE IN 7" PINE TREE
BM22	120+57.47	-15.66'	95.757	RR SPIKE IN 7" PINE TREE
BM23	126+18.67	-18.14'	99.506	RR SPIKE IN TRIPLE 8" OAK TREE
BM24	133+17.69	-19.80'	81.413	RR SPIKE IN 9" PINE TREE
BM25	137+96.32	-9.06'	88.492	RR SPIKE IN 6" PINE TREE
BM26	142+45.43	36.62'	99.147	TOP OF IRON REBAR & CAP
BM27	148+10.04	34.99'	98.985	RR SPIKE IN POWER POLE
BM28	152+63.85	-10.57'	97.410	RR SPIKE IN 8" PINE TREE
BM29	158+42.38	110.84'	92.875	RR SPIKE IN 12" OAK TREE
BM30	166+25.41	-9.22'	98.323	RR SPIKE IN TRIPLE 8" OAK TREE
BM31	175+04.99	34.94'	85.400	NAIL IN POWER POLE
BM32	179+80.81	-9.92'	87.714	RR SPIKE IN 6" OAK
BM33	181+76.22	51.92'	88.924	NAIL IN 20" OAK TREE
BM34	190+89.12	38.71'	83.731	NAIL IN POWER POLE
BM35	195+84.21	34.69'	83.594	NAIL IN POWER POLE
BM36	200+84.01	26.95'	97.183	NAIL IN POWER POLE
BM37	206+49.45	45.54'	83.289	
BM38	210+72.56	34.80'	78.799	NAIL IN POWER POLE
BM39	218+61.16	44.10'	86.895	NAIL IN 10" PINE
BM40	222+20.01	61.61'	81.531	RR SPIKE IN PAVEMENT
BM41	225+16.09	12.68'	84.018	NAIL IN POWER POLE
BM42	232+37.69	18.36'	78.500	RR SPIKE IN 24" OAK
BM43	239+63.11	33.79'	71.921	NAIL IN POWER POLE
BM44	242+76.65	34.90'	78.021	RR SPIKE IN POWER POLE
BM45	249+95.99	34.28'	87.981	NAIL IN POWER POLE
BM46	253+74.51	36.79'	91.758	CONC. MONUMENT (STAMPED SRWM 061708002)
BM47	260+22.61	32.62'	98.592	NAIL IN 15" OAK TREE
BM48	264+02.51	39.89'	89.067	NAIL IN 38" OAK TREE
BM49	268+90.19	-2.83'	83.705	NAIL IN 10" OAK TREE
BM50	275+44.90	36.87'	86.536	NAIL IN POWER POLE W/ TRANSFORMER

REVISIONS:

JOB NUMBER: L140602CCB	DESIGNED BY: GB	DRAFTED BY: RD	CHECKED BY: GB
DATE: 11/24/08	SIGNATURE & SEAL		
SHEET NO. 73			

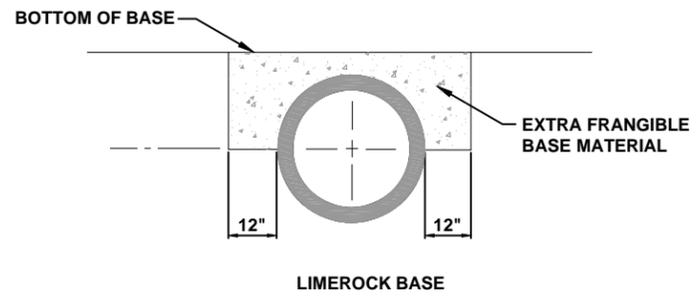
**BENCHMARK TABLE**  
 SW HERLONG STREET  
 COLUMBIA COUNTY, FLORIDA



North Florida Professional Services, Inc.  
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 Tallahassee, FL 32318  
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STORM STRUCTURE TABLE										
STRUCTURE NUMBER	STATION	OFFSET	TYPE	GRATE EL.	SLOT EL.	NORTH PIPE INV.	EAST PIPE INV.	SOUTH PIPE INV.	WEST PIPE INV.	REMARKS
S-1	10+60	28' (LT)	MES			72.00 (18")				
S-2	10+60	28' (RT)	MES					71.90 (18")		
S-3	24+31	32' (LT)	TYPE "C" DBI	71.96	71.46			68.86 (24")		SLOT ON BOTH WEST AND EAST SIDES
S-4	24+31	32' (RT)	MES					68.76 (24")		
S-5	43+00	32' (LT)	TYPE "C" DBI	80.19	79.69			77.09 (24")		SLOT ON BOTH WEST AND EAST SIDES
S-6	43+00	32' (RT)	MES					76.98 (24")		
S-7	58+77	32' (LT)	MES			83.00 (18")				
S-8	58+77	32' (RT)	TYPE "C" DBI	85.50	85.00	83.10 (18")				SLOT ON BOTH WEST AND EAST SIDES
S-9	70+50	32' (LT)	MES			80.66 (24")				
S-10	70+50	32' (RT)	MES					79.76 (24")		
S-11	76+00	32' (LT)	TYPE "C" DBI	83.59	83.09			80.66 (18")		SLOT ON BOTH WEST AND EAST SIDES
S-12	76+00	32' (RT)	MES					80.56 (18")		
S-13	109+00	36' (LT)	MES			83.57 (18")				
S-14	109+00	36' (RT)	TYPE "C" DBI	86.17	85.67	83.67 (18")				SLOT ON BOTH WEST AND EAST SIDES
S-15	133+91	32' (LT)	MES			79.55 (18")				
S-16	133+91	32' (RT)	MES					79.65 (18")		
S-17	159+12	32' (LT)	MES			89.68 (18")				
S-18	159+12	32' (RT)	TYPE "C" DBI	92.28	91.78	89.78 (18")				SLOT ON BOTH WEST AND EAST SIDES
S-19	175+00	28' (LT)	MES			84.05 (18")				
S-20	175+00	28' (RT)	TYPE "C" DBI	86.40	85.90	84.15 (18")				SLOT ON BOTH WEST AND EAST SIDES
S-21	188+00	28' (LT)	MES			79.20 (18")				
S-22	188+00	28' (RT)	TYPE "C" DBI	83.01	82.51	79.30 (18")				SLOT ON BOTH WEST AND EAST SIDES
S-23	190+00	28' (LT)	MES			79.20 (18")				
S-24	190+00	28' (RT)	TYPE "C" DBI	82.73	82.23	79.30 (18")				SLOT ON BOTH WEST AND EAST SIDES
S-25	192+00	28' (LT)	MES			79.20 (18")				
S-26	192+00	28' (RT)	TYPE "C" DBI	83.75	83.25	79.30 (18")				SLOT ON BOTH WEST AND EAST SIDES
S-27	214+00	28' (LT)	TYPE "C" DBI	80.86	80.36			78.61 (18")		SLOT ON BOTH WEST AND EAST SIDES
S-28	214+00	28' (RT)	MES					78.51 (18")		

SEE FDOT DESIGN STANDARDS 232 AND 273



- NOTES:  
 1. DETAIL APPLIES TO ALL CROSS DRAINS  
 2. FRANGIBLE BASE MATERIAL INCLUDED IN THE COST OF PIPE

**EXTRA BASE FOR CROSS CULVERTS UNDER FLEXIBLE PAVEMENTS**

1/74 SCALE: N.T.S.

CROSS DRAIN TABLE					
PIPE NUMBER	STATION	SIZE	LENGTH	MATERIAL	REMARKS
CD-1	10+60	18"	56	RCP	
CD-2	24+31	24"	64	RCP	
CD-3	43+00	24"	64	RCP	
CD-4	58+77	18"	64	RCP	
CD-5	70+50	24"	64	RCP	
CD-6	76+00	18"	64	RCP	
CD-7	109+00	18"	72	RCP	
CD-8	133+91	18"	64	RCP	
CD-9	159+12	18"	64	RCP	
CD-10	175+00	18"	56	RCP	
CD-11	188+00	18"	56	RCP	
CD-12	190+00	18"	56	RCP	
CD-13	192+00	18"	56	RCP	
CD-14	214+00	18"	56	RCP	

CONSTRUCT ACCORDING TO FDOT DESIGN STANDARDS 272  
 SEE STORM STRUCTURE TABLE FOR INVERTS

File Location: X:\2014\L140602CCB\Design\CADD\cDFLppr01\STRUC Date Created: February 17, 2015 Date Last Saved: February 17, 2015 Date Plotted: February 18, 2015

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**STORM TABLES AND DETAILS**  
 SW HERLONG STREET  
 COLUMBIA COUNTY, FLORIDA

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 L140602CCB  
 DESIGNED BY: GB  
 DRAFTED BY: RD  
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 SIGNATURE & SEAL  
 DATE: 11/24/08  
 SHEET NO. 74