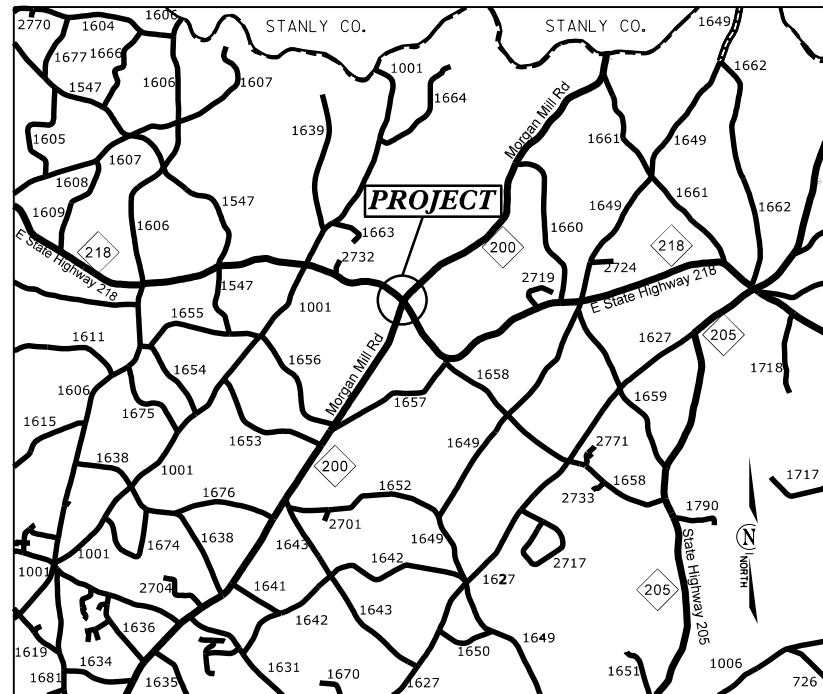


PROJECT: 44856.3.9 TIP: W-57101

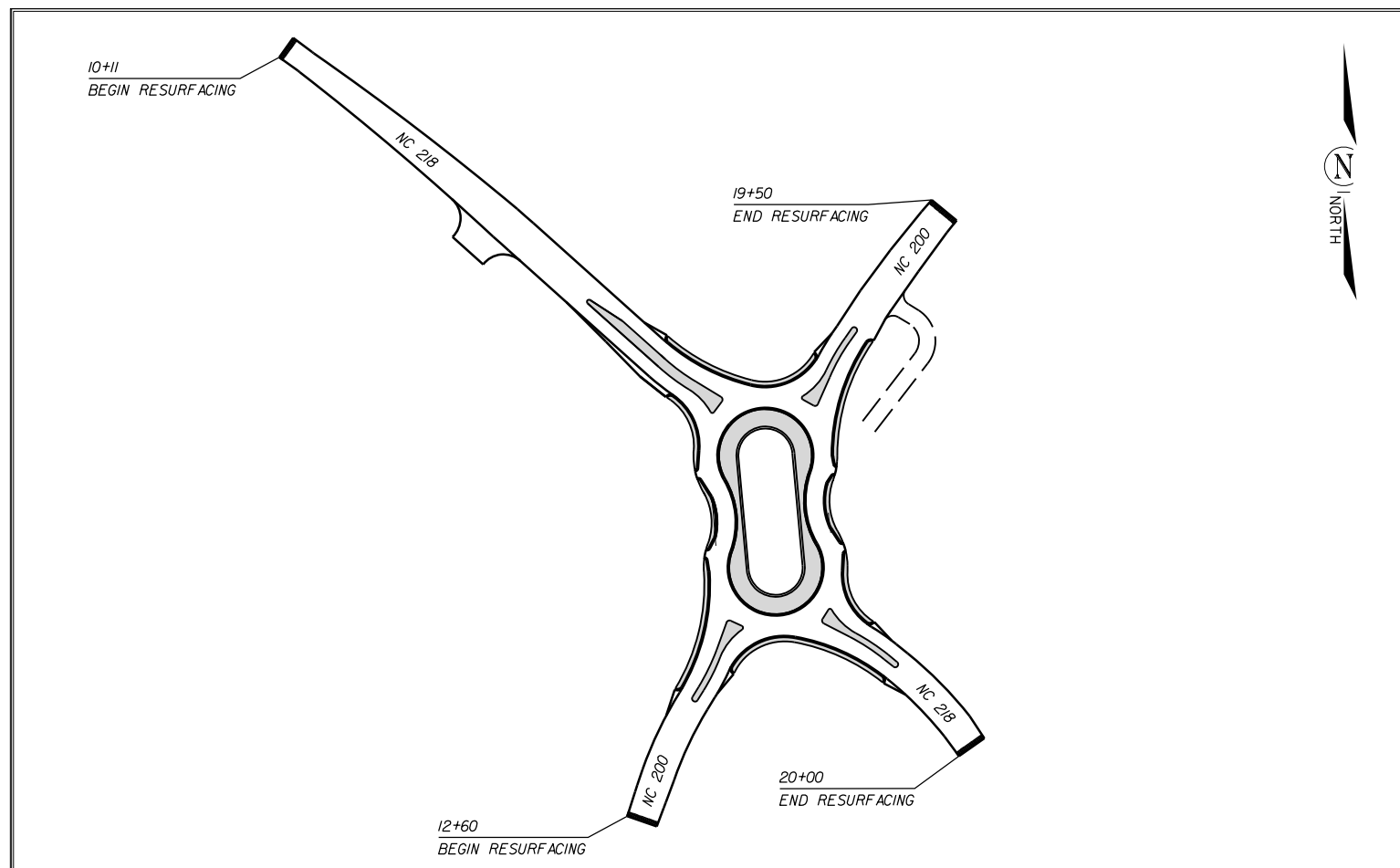


VICINITY MAP NOT TO SCALE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
UNION COUNTY

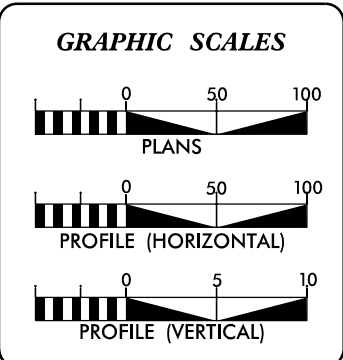
LOCATION: INTERSECTION OF NC 218 AND NC 200

TYPE OF WORK: GRADING, DRAINAGE, PAVEMENT REMOVAL, MILLING, PAVING, MONOLITHIC CONCRETE ISLANDS, CURB & GUTTER, AND THERMOPLASTIC PAVEMENT MARKING



| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C. | 44856.3.9 | 1 | |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| 44856.1.9 | HSIP-0200(005) | P.E. | |
| 44856.2.9 | HSIP-0200(005) | R/W | |
| 44856.3.9 | HSIP-0200(005) | CONST. | |
| | | | |
| | | | |

CLEARING ON THIS PROJECT SHALL BE TO THE LIMITS ESTABLISHED BY METHOD III AS DESCRIBED IN THE NCDOT STANDARD DRAWINGS



DESIGN DATA

| | | |
|-----|---|-----|
| ADT | = | |
| ADT | = | |
| DHV | = | % |
| D | = | % |
| T | = | % |
| V | = | MPH |

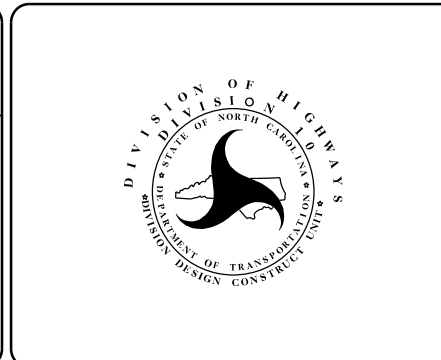
PROJECT LENGTH

| | | |
|-------------------------------|---|-------------|
| LENGTH OF ROADWAY PROJECT | = | 0.297 MILES |
| TOTAL LENGTH OF STATE PROJECT | = | 0.297 MILES |

Prepared In the Office of:
DIVISION OF HIGHWAYS
DIVISION TEN
DIVISION DESIGN / CONSTRUCT UNIT

2018 STANDARD SPECIFICATIONS

| | |
|----------------------------------|---|
| RIGHT OF WAY DATE: 03-03-2022 | DONALD HARWARD PROJECT ENGINEER |
| LETTING DATE: 08-17-2022 | DONALD HARWARD PROJECT DESIGN ENGINEER |



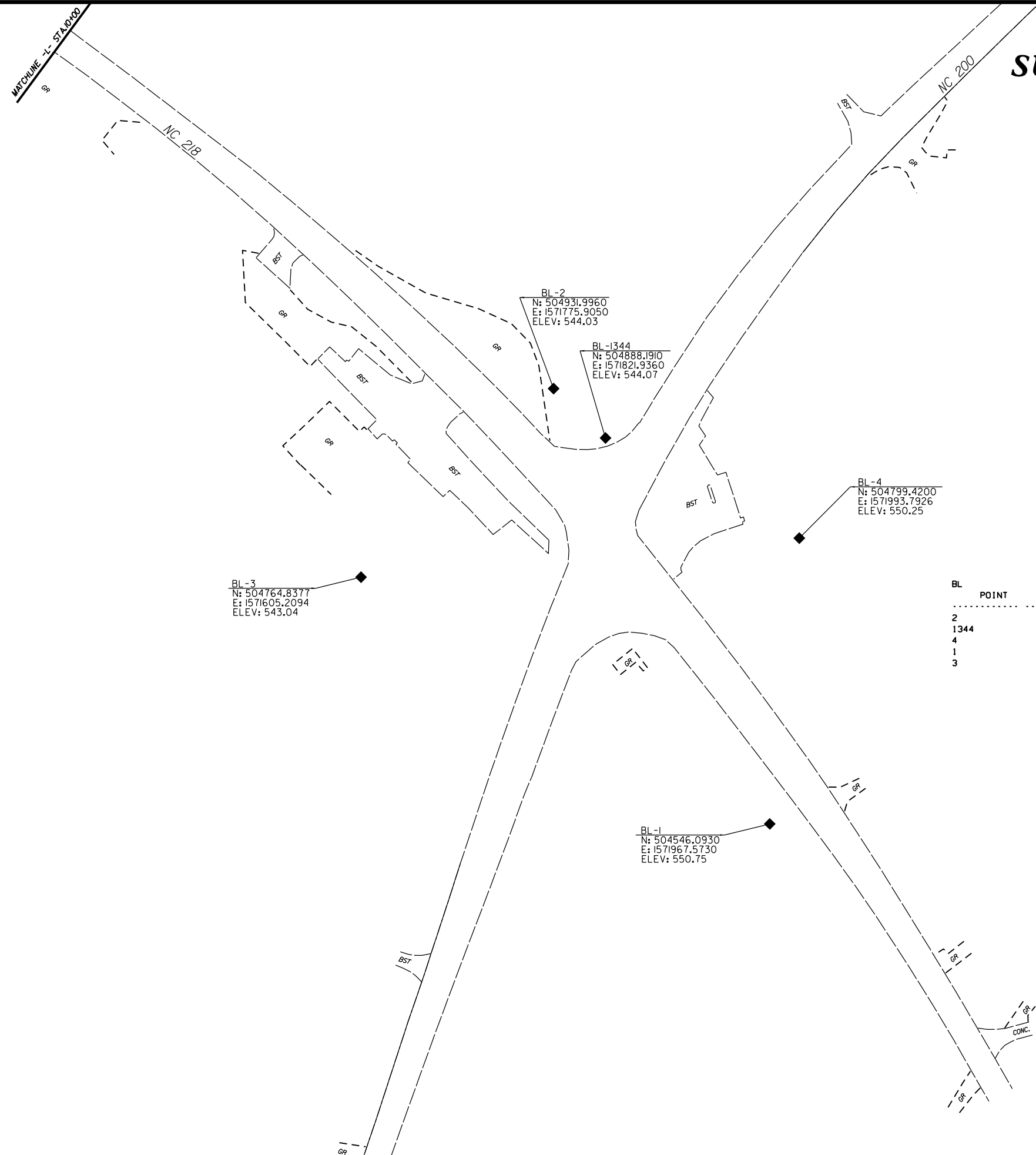
ROADWAY DESIGN ENGINEER

DocuSigned by:
Donald Harward
A92E75CC0FFB43B...

SIGNATURE

| | |
|--------------------------------|-----------|
| PROJECT NO. | SHEET NO. |
| 44856.3.9 | 1A |
| F.A. PROJECT NO. HSP-020010051 | |

SURVEY CONTROL SHEET



BL-2
 N: 504931.9960
 E: 1571775.9050
 ELEV: 544.03

BL-1344
 N: 504888.1910
 E: 1571821.9360
 ELEV: 544.07

BL-4
 N: 504799.4200
 E: 1571993.7926
 ELEV: 550.25

BL-3
 N: 504764.8377
 E: 1571605.2094
 ELEV: 543.04

BL-1
 N: 504546.0930
 E: 1571967.5730
 ELEV: 550.75

| BL POINT | DESC. | NORTH | EAST | ELEVATION | L STATION | OFFSET |
|----------|-------|-------------|--------------|-----------|-----------|-----------|
| 2 | | 504931.9960 | 1571775.9050 | 544.03 | 15+30.55 | 44.73 LT |
| 1344 | | 504888.1910 | 1571821.9360 | 544.07 | 15+94.07 | 42.79 LT |
| 4 | NS | 504799.4200 | 1571993.7926 | 550.25 | 18+19.15 | 162.55 LT |
| 1 | | 504546.0930 | 1571967.5730 | 550.75 | 19+67.47 | 44.19 RT |
| 3 | NS | 504764.8377 | 1571605.2094 | 543.04 | 15+14.85 | 193.67 RT |

NOTES :

- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED BY THE DIVISION IO DDC UNIT. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE DIVISION IO DDC UNIT.

ROUNDABOUT AT THE INTERSECTION
OF NC 200 AND NC 218

| | | | |
|-----------|--------|---|-----------|
| SCALE | 1"=50' |  | REVISIONS |
| DATE | 3-2022 | | |
| DWG. BY | CEB | | |
| DESIGN BY | JDH | | |
| APPROVED | JDH | | |

RIGHT OF WAY, EASEMENT AND PROPOSED ALIGNMENT SHEET

ROW MARKER IRON PIN & CAP

| ALIGN | STATION | OFFSET | NORTH | EAST |
|-------|----------|--------|-------------|--------------|
| L | 15+72.00 | 61.44 | 504825.2443 | 1571735.9805 |
| L | 18+64.00 | 40.58 | 504613.2547 | 1571900.9705 |
| L | 16+88.27 | -83.69 | 504781.3248 | 1571907.6009 |
| L | 19+00.00 | 39.12 | 504592.2323 | 1571929.1774 |

ROW MARKER IRON PIN & CAP

| ALIGN | STATION | OFFSET | NORTH | EAST |
|-------|----------|--------|-------------|--------------|
| Y | 13+75.00 | 45.05 | 504559.2343 | 1571780.5827 |
| Y | 14+25.00 | 43.00 | 504601.5885 | 1571804.0338 |
| Y | 14+60.00 | 55.00 | 504625.0862 | 1571832.6146 |
| Y | 15+12.00 | -85.51 | 504743.0836 | 1571740.2859 |
| Y | 17+50.00 | 54.31 | 504881.9731 | 1571919.5553 |

Y

| TYPE | STATION | NORTH | EAST |
|------|----------|-------------|--------------|
| POT | 10+00.00 | 504229.7681 | 1571612.1642 |
| PC | 13+08.27 | 504520.7781 | 1571713.8564 |
| PT | 13+88.48 | 504593.0657 | 1571748.2675 |
| POT | 15+42.00 | 504723.7542 | 1571828.8249 |
| POT | 16+52.29 | 504833.5834 | 1571818.7859 |
| PC | 18+54.66 | 504998.7759 | 1571935.6824 |
| PCC | 20+83.09 | 505172.0714 | 1572084.0164 |
| PT | 22+37.85 | 505279.0378 | 1572195.8485 |

L

| TYPE | STATION | NORTH | EAST |
|------|----------|-------------|--------------|
| POT | 4+25.00 | 505581.7350 | 1570877.8980 |
| PC | 4+91.40 | 505542.7750 | 1570931.6620 |
| PT | 7+60.00 | 505382.4505 | 1571147.1703 |
| PC | 10+00.00 | 505239.9140 | 1571340.2593 |
| PT | 13+06.69 | 505047.9772 | 1571579.2721 |
| POT | 16+28.14 | 504833.5834 | 1571818.7859 |
| POT | 17+38.43 | 504723.7542 | 1571828.8249 |
| PC | 18+91.95 | 504627.2415 | 1571948.2163 |
| PCC | 19+95.93 | 504551.4672 | 1572018.9255 |
| PT | 23+24.99 | 504271.2530 | 1572191.0612 |

PERMANENT UTILITY EASEMENT

| ALIGN | STATION | OFFSET | NORTH | EAST |
|-------|----------|--------|-------------|--------------|
| Y | 17+37.00 | -69.00 | 504942.5873 | 1571811.3927 |
| Y | 17+43.00 | -80.00 | 504953.8391 | 1571805.8793 |
| Y | 17+72.00 | -47.47 | 504958.7206 | 1571849.1853 |
| Y | 18+63.00 | 74.00 | 504962.4162 | 1572000.6390 |
| Y | 18+70.00 | 83.00 | 504962.4635 | 1572011.7741 |
| Y | 18+92.00 | 50.30 | 504998.6499 | 1571997.8699 |
| Y | 19+00.00 | 57.00 | 505000.6946 | 1572007.8367 |
| Y | 19+12.00 | 50.32 | 505013.8666 | 1572009.5596 |
| Y | 19+32.00 | 74.00 | 505014.0463 | 1572039.9195 |
| Y | 19+37.00 | 65.00 | 505023.3763 | 1572035.8912 |

PERMANENT UTILITY EASEMENT

| ALIGN | STATION | OFFSET | NORTH | EAST |
|-------|----------|--------|-------------|--------------|
| L | 15+35.00 | -71.00 | 504948.6047 | 1571796.7419 |
| L | 15+58.00 | -60.51 | 504925.4506 | 1571806.8846 |
| L | 18+98.59 | -63.89 | 504671.9782 | 1571994.3943 |
| L | 19+04.07 | -92.00 | 504689.0914 | 1572017.6555 |
| L | 19+07.00 | -61.73 | 504663.9354 | 1572000.4479 |
| L | 19+12.00 | -90.48 | 504681.4095 | 1572024.0614 |

ROW MARKER PERMANENT EASEMENT-E

| ALIGN | STATION | OFFSET | NORTH | EAST |
|-------|----------|--------|-------------|--------------|
| Y | 13+56.33 | -73.37 | 504597.9511 | 1571667.0521 |
| Y | 13+57.00 | -86.00 | 504604.3566 | 1571656.1334 |
| Y | 13+76.00 | -86.00 | 504624.9700 | 1571667.2118 |
| Y | 13+76.39 | -73.71 | 504619.2848 | 1571678.1213 |
| Y | 19+70.00 | -58.47 | 505127.7541 | 1571962.2032 |
| Y | 19+82.00 | -78.00 | 505150.1112 | 1571955.7252 |
| Y | 19+89.00 | -49.75 | 505136.9794 | 1571981.8026 |
| Y | 19+98.00 | -66.00 | 505154.8255 | 1571975.9331 |

I, Barry D. Davis, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item, R/W and Easement Staking, was performed under my responsible charge meeting NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures as of 2017. Those standards can be found at <https://connect.ncdot.gov/resources/Location/Pages/>.

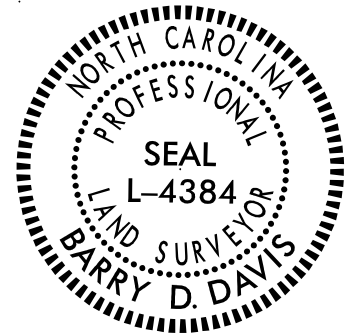
I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from survey control established under my supervision; that the depicted property data shown herein were surveyed under my supervision and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (see deeds for final determination).

Witness my signature, registration number and seal this 30th day of March 2022

Barry D. Davis, _____ DocuSigned by: PLS* L-4384
Professional Land Surveyor

Barry D. Davis

0E2AAE4F48174DC...



NOTES:

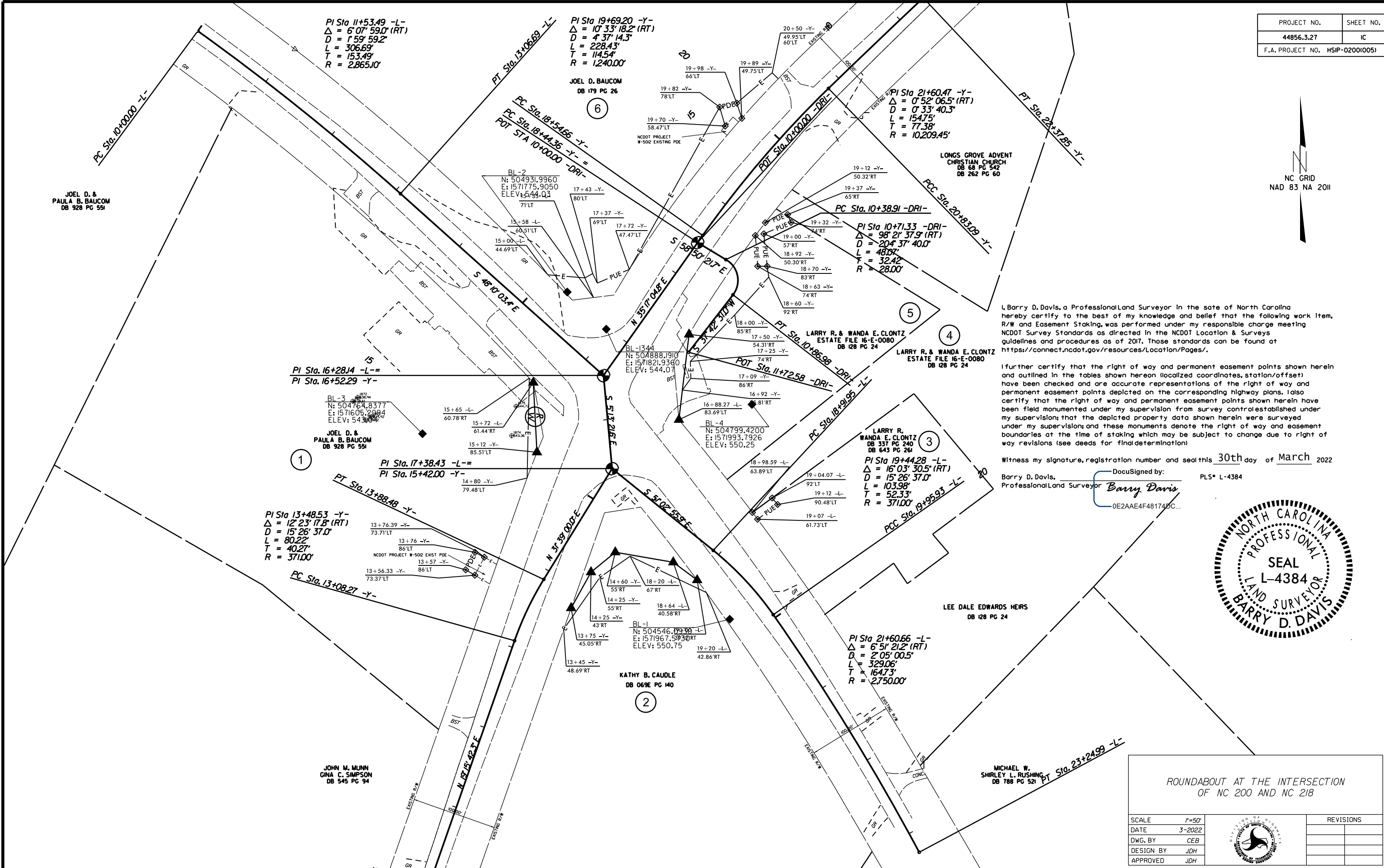
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED BY THE DIVISION IO DDC UNIT. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE DIVISION IO DDC UNIT.

ROUNDABOUT AT THE INTERSECTION
OF NC 200 AND NC 218

| SCALE | N/A | REVISIONS |
|-----------|--------|-----------|
| DATE | 3-2022 | |
| DWG. BY | CEB | |
| DESIGN BY | JDH | |
| APPROVED | JDH | |



| | |
|--------------------------------|-----------|
| PROJECT NO. | SHEET NO. |
| 44856.3.27 | IC |
| F.A. PROJECT NO. HSP-020010051 | |



I, Barry D. Davis, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item, R/W and Easement Staking, was performed under my responsible charge meeting NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures as of 2017. Those standards can be found at <https://connect.ncdot.gov/resources/Location/Pages/>.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from survey control established under my supervision; that the depicted property data shown herein were surveyed under my supervision; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (see deeds for final determination).

Witness my signature, registration number and seal this 30th day of March 2022

Barry D. Davis, DocuSigned by: PLS# L-4384
 Professional Land Surveyor Barry Davis
 0E2AAE4F48174DC...



| | | | |
|-----------|--|--------|-----------|
| SCALE | | 1"=50' | REVISIONS |
| DATE | | 3-2022 | |
| DWG. BY | | CEB | |
| DESIGN BY | | JDH | |
| APPROVED | | JDH | |

ROUNDABOUT AT THE INTERSECTION
OF NC 200 AND NC 218

PI Sta 11+53.49 -L-
 $\Delta = 6^{\circ} 07' 59.2''$ (RT)
 D = 153.49'
 L = 306.69'
 T = 153.49'
 R = 2,865.10'

PI Sta 19+69.20 -Y-
 $\Delta = 10^{\circ} 33' 18.2''$ (RT)
 D = 437' 14.3"
 L = 228.43'
 T = 114.54'
 R = 1,240.00'

PI Sta 21+60.47 -Y-
 $\Delta = 0^{\circ} 52' 06.5''$ (RT)
 D = 0' 33' 40.3"
 L = 154.75'
 T = 77.38'
 R = 10,209.45'

PI Sta 10+71.33 -DRI-
 $\Delta = 98^{\circ} 21' 37.9''$ (RT)
 D = 204' 37' 40.0"
 L = 48.07'
 T = 32.42'
 R = 28.00'

PI Sta 19+44.28 -L-
 $\Delta = 16^{\circ} 03' 30.5''$ (RT)
 D = 15' 26' 37.0"
 L = 103.98'
 T = 52.33'
 R = 371.00'

PI Sta 21+60.66 -L-
 $\Delta = 6^{\circ} 51' 21.2''$ (RT)
 D = 2' 05' 00.5"
 L = 329.06'
 T = 164.73'
 R = 2,750.00'

PI Sta 13+48.53 -Y-
 $\Delta = 12^{\circ} 23' 17.8''$ (RT)
 D = 15' 26' 37.0"
 L = 80.22'
 T = 40.27'
 R = 371.00'

BL -1
 N: 504546.0930 -L-
 E: 157196.7530 -L-
 ELEV: 550.75

BL -1344
 N: 504888.1910
 E: 1571821.9360
 ELEV: 544.07

BL -3
 N: 504764.8377
 E: 1571605.2094
 ELEV: 543.04

BL -2
 N: 504931.9960
 E: 1571775.9050
 ELEV: 544.03

BL -4
 N: 504799.4200
 E: 1571993.7926
 ELEV: 550.25

JOHN M. MUMF
 GINA C. SIMPSON
 DB 545 PG 94

JOEL D. &
 PAULA B. BAUCOM
 DB 928 PG 551

JOEL D. &
 PAULA B. BAUCOM
 DB 928 PG 551

JOEL D. BAUCOM
 DB 179 PG 26

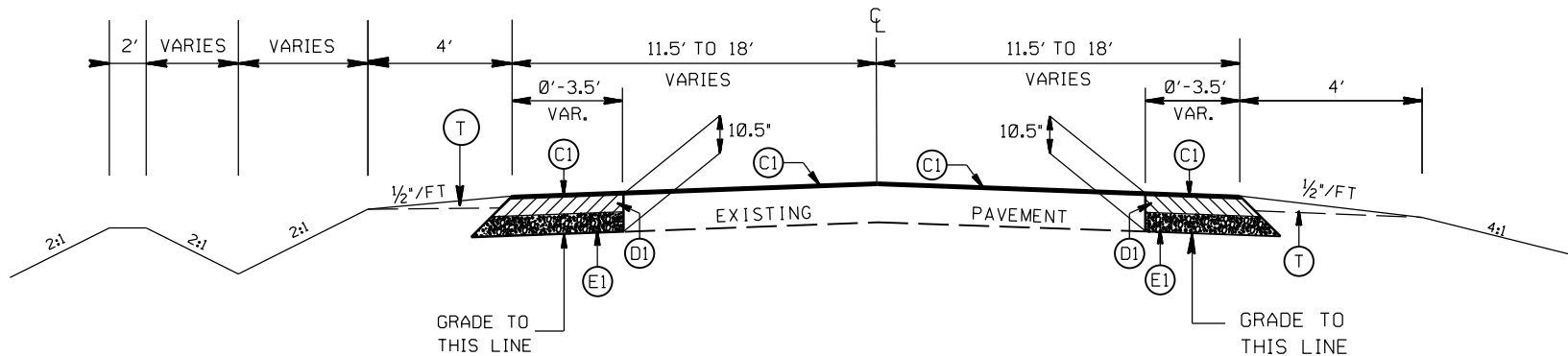
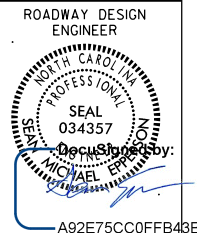
LARRY R. & WANDA E. CLONTZ
 ESTATE FILE 16-E-0080
 DB 128 PG 24

LARRY R. & WANDA E. CLONTZ
 ESTATE FILE 16-E-0080
 DB 128 PG 24

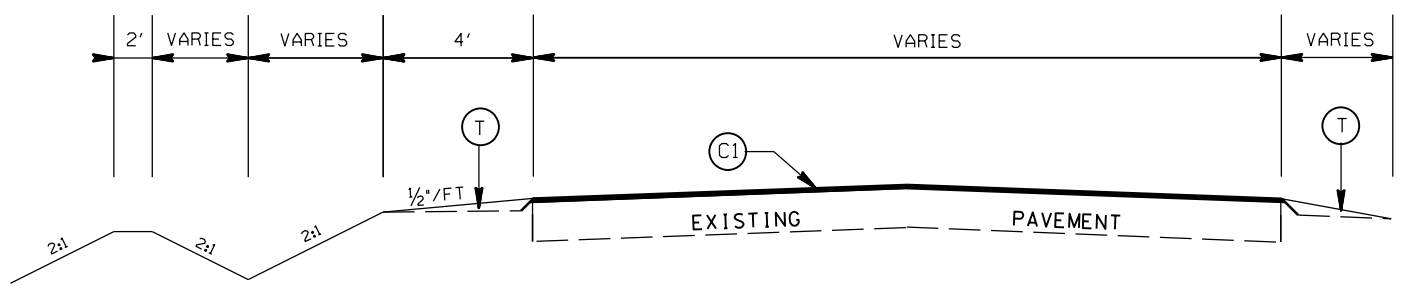
LARRY R.
 WANDA E. CLONTZ
 DB 337 PG 240
 DB 643 PG 261

LEE DALE EDWARDS HEIRS
 DB 128 PG 24

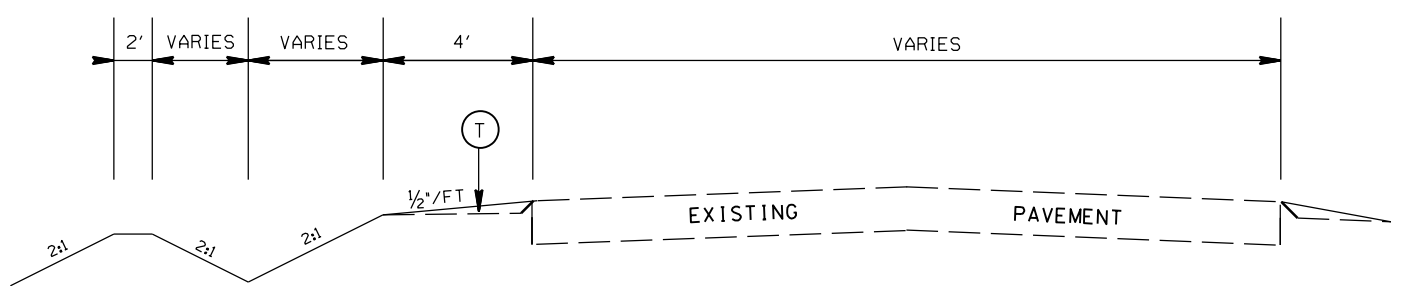
MICHAEL W.
 SHIRLEY L. RUSHING
 DB 788 PG 521



TYPICAL SECTION NO. 3
STA. 10+36.00 TO 13+00.00 -L-



TYPICAL SECTION NO. 2
STA. 10+11.00 TO 10+36.00 -L-



TYPICAL SECTION NO. 1
STA. 4+66.91 TO 10+11.00 -L-

NOTES:
 -UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5) IN PROP. 7" TRUCK MOUNTABLE CONC. ISLAND (R5,R6).
 -OVERLAP WELDED WIRE MESH PANELS 4".

PAVEMENT SCHEDULE

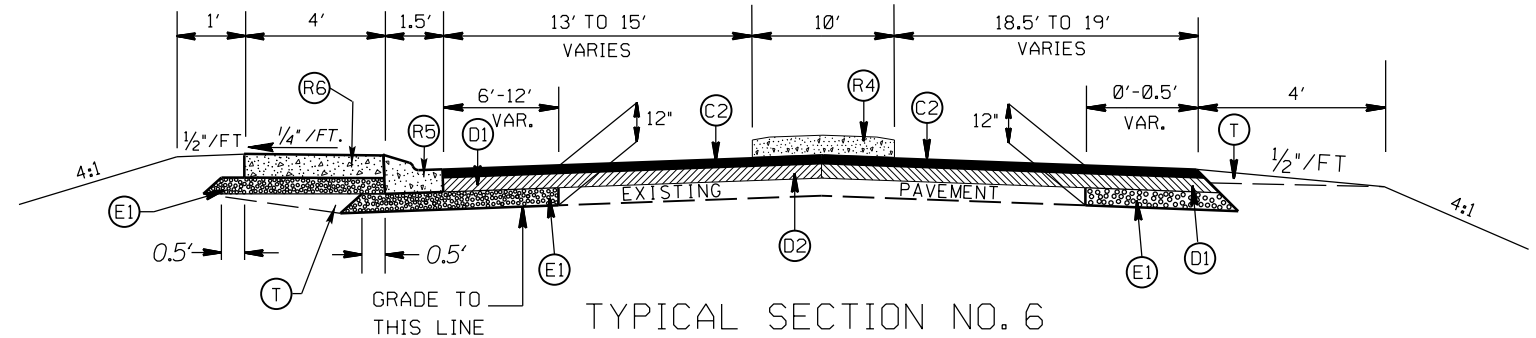
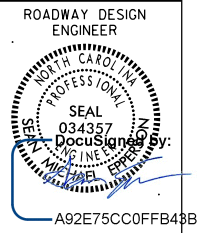
| | |
|------|--|
| (C1) | PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. |
| (C2) | PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS. |
| (D1) | PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. |
| (D2) | PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE. |
| (E1) | PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD. |
| (J) | PROP. 6" ABC BASE COURSE |
| (R1) | PROP. 2'-6" CONC. CURB & GUTTER |
| (R2) | PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE |
| (R3) | PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE |
| (R4) | PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED) |
| (R5) | PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE (BLACK TINT) |
| (R6) | PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE (BLACK TINT) |
| (T) | EARTH MATERIAL |

ROUNDABOUT AT THE INTERSECTION
OF NC 200 AND NC 218

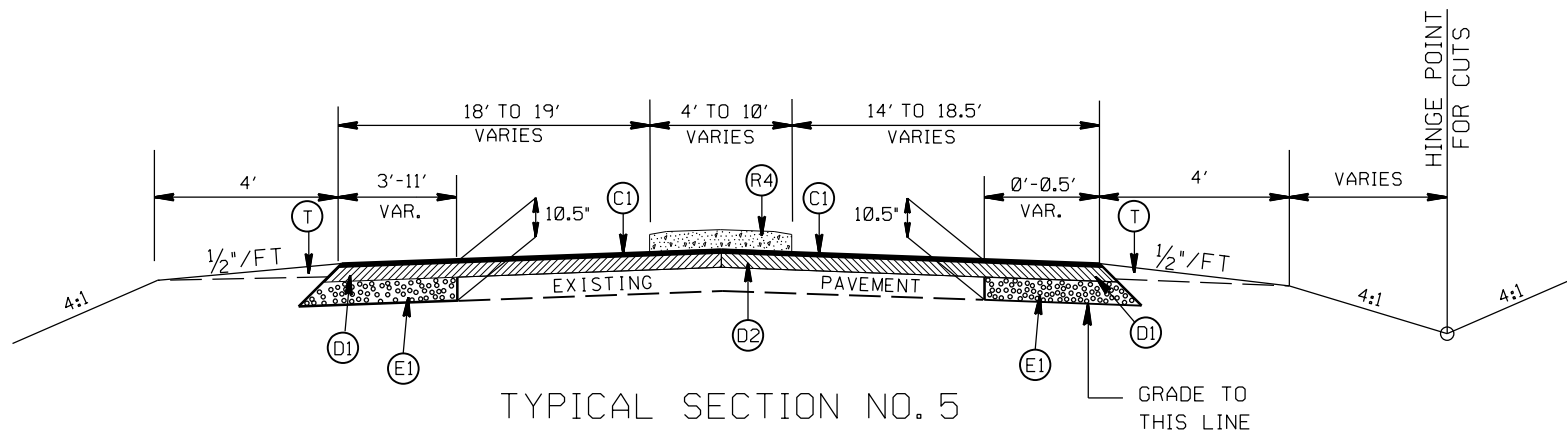
| | |
|-----------|--------|
| SCALE | N/A |
| DATE | 8-2020 |
| DWG. BY | DLS |
| DESIGN BY | JDH |
| APPROVED | JDH |



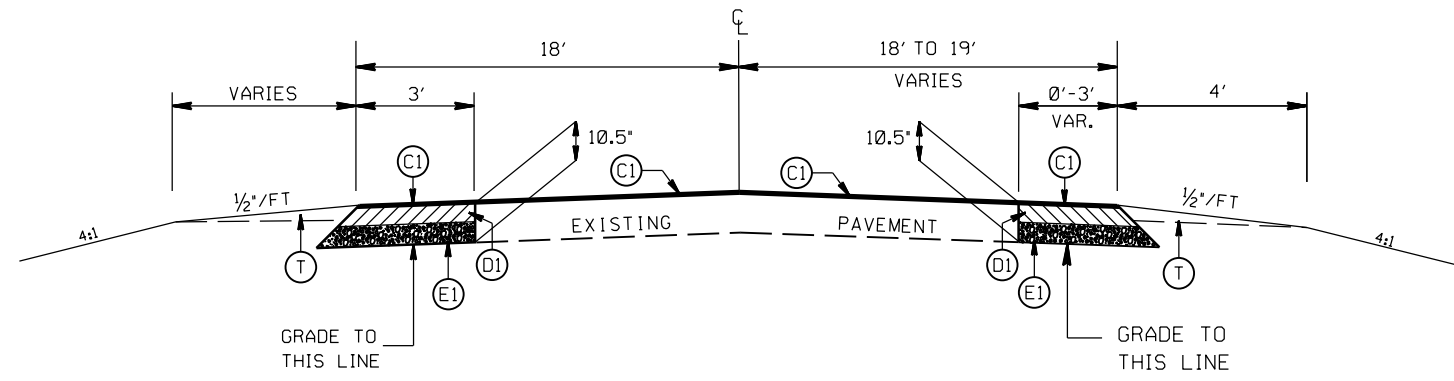
| REVISIONS | | |
|-----------|--|--|
| | | |
| | | |
| | | |



TYPICAL SECTION NO. 6
STA. 14+77.47 TO 15+16.93 -L-



TYPICAL SECTION NO. 5
STA. 13+96.74 TO 14+77.47 -L-



TYPICAL SECTION NO. 4
STA. 13+00.00 TO 13+96.74 -L-

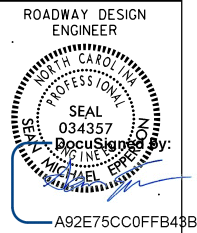
NOTES:
 -UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5) IN PROP. 7" TRUCK MOUNTABLE CONC. ISLAND (R5,R6).
 -OVERLAP WELDED WIRE MESH PANELS 4".

PAVEMENT SCHEDULE

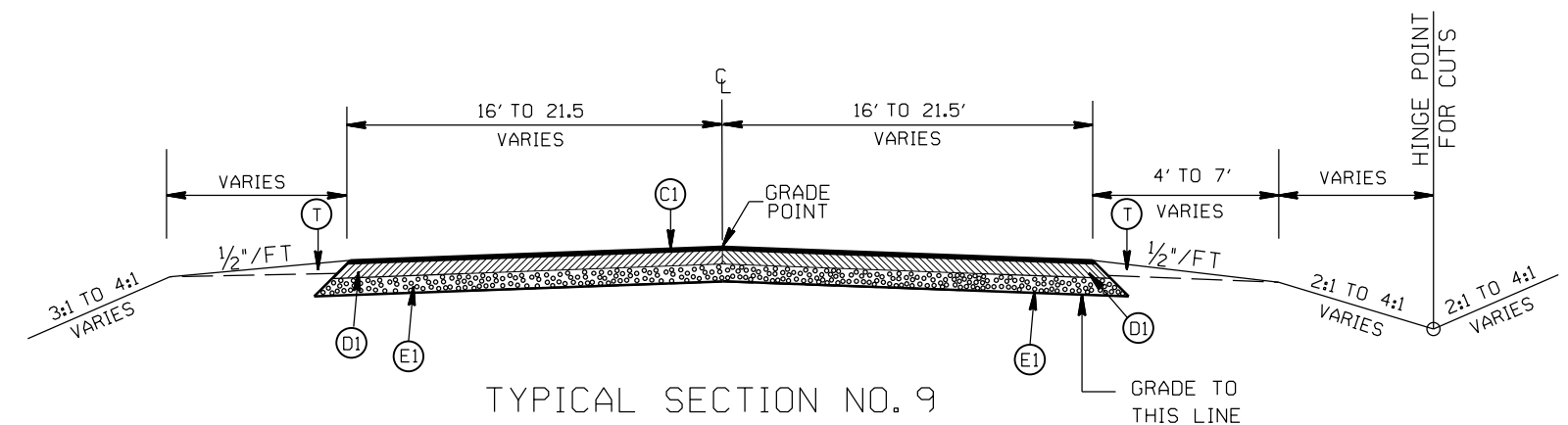
| | |
|------|--|
| (C1) | PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. |
| (C2) | PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS. |
| (D1) | PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. |
| (D2) | PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE. |
| (E1) | PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD. |
| (J) | PROP. 6" ABC BASE COURSE |
| (R1) | PROP. 2'-6" CONC. CURB & GUTTER |
| (R2) | PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE |
| (R3) | PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE |
| (R4) | PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED) |
| (R5) | PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE (BLACK TINT) |
| (R6) | PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE (BLACK TINT) |
| (T) | EARTH MATERIAL |

ROUNDABOUT AT THE INTERSECTION
OF NC 200 AND NC 218

| | | | |
|-----------|--------|--|-----------|
| SCALE | N/A | | REVISIONS |
| DATE | 8-2020 | | |
| DWG. BY | DLS | | |
| DESIGN BY | JDH | | |
| APPROVED | JDH | | |



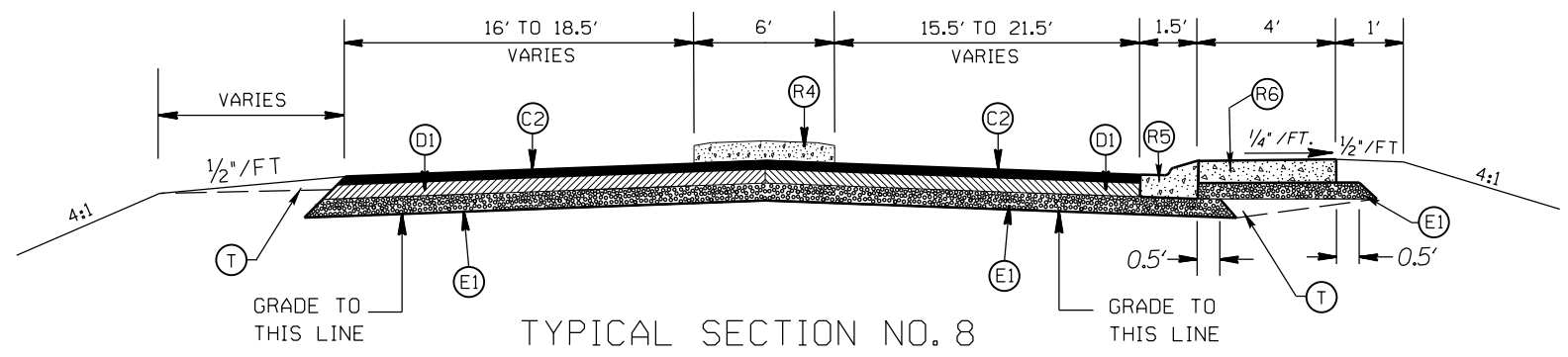
NOTES:
 -UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5) IN PROP. 7" TRUCK MOUNTABLE CONC. ISLAND (R5,R6).
 -OVERLAP WELDED WIRE MESH PANELS 4".



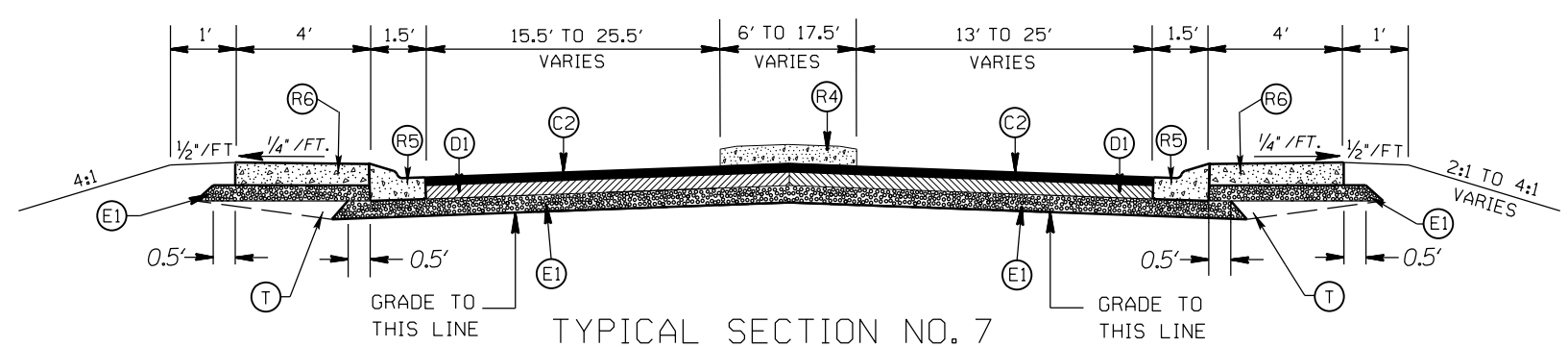
TYPICAL SECTION NO. 9
 STA. 18+91.95 TO 19+75.00 -L-
 STA. 13+08.27 TO 13+88.48 -Y-

PAVEMENT SCHEDULE

| | |
|------|--|
| (C1) | PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. |
| (C2) | PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS. |
| (D1) | PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. |
| (D2) | PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE. |
| (E1) | PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD. |
| (J) | PROP. 6" ABC BASE COURSE |
| (R1) | PROP. 2'-6" CONC. CURB & GUTTER |
| (R2) | PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE |
| (R3) | PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE |
| (R4) | PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED) |
| (R5) | PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE (BLACK TINT) |
| (R6) | PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE (BLACK TINT) |
| (T) | EARTH MATERIAL |



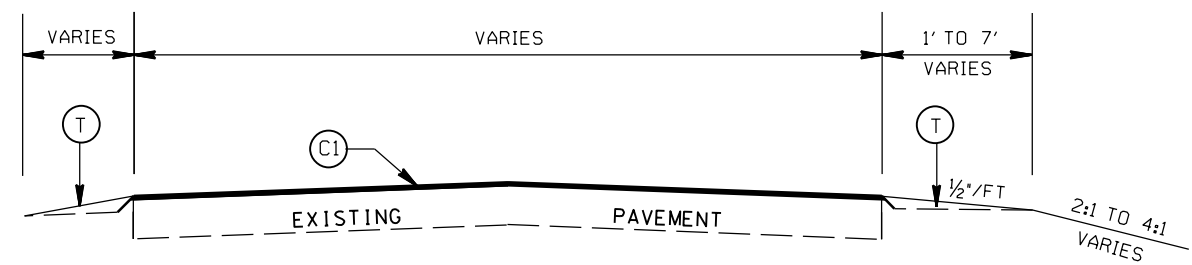
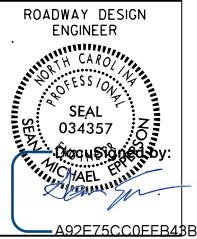
TYPICAL SECTION NO. 8
 STA. 18+47.02 TO 18+91.95 -L-
 STA. 17+62.71 TO 18+05.81 -Y-



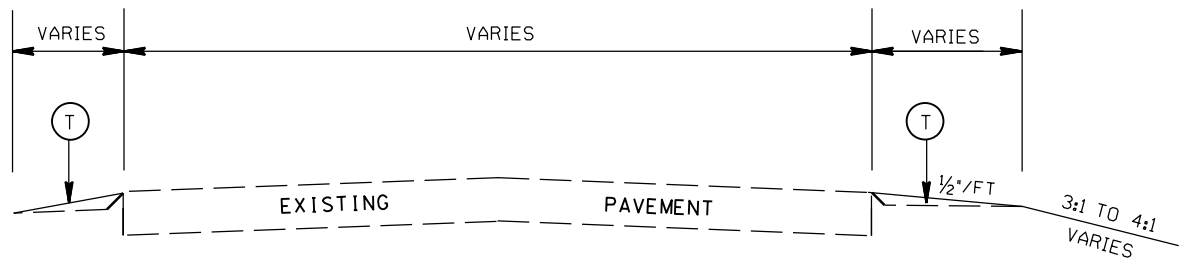
TYPICAL SECTION NO. 7
 STA. 15+16.93 TO 15+62.17 -L-
 STA. 18+04.42 TO 18+47.02 -L-
 STA. 14+31.59 TO 14+76.03 -Y-
 STA. 17+18.26 TO 17+62.71 -Y-

ROUNDBOUT AT THE INTERSECTION
OF NC 200 AND NC 218

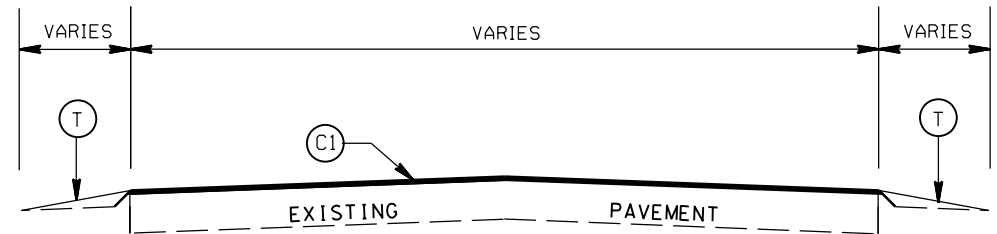
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| SCALE | N/A | | REVISIONS |
| DATE | 8-2020 | | |
| DWG. BY | DLS | | |
| DESIGN BY | JDH | | |
| APPROVED | JDH | | |



TYPICAL SECTION NO. 12
 STA. 12+60.00 TO 13+08.27 -Y-
 STA. 18+50.00 TO 19+50.00 -Y-



TYPICAL SECTION NO. 11
 STA. 11+25.00 TO 12+60.00 -Y-
 STA. 19+50.00 TO 20+45.27 -Y-



TYPICAL SECTION NO. 10
 STA. 19+75.00 TO 20+00.00 -L-

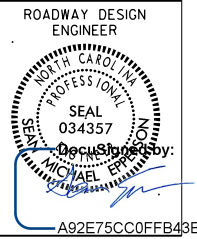
NOTES:
 -UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5)
 IN PROP. 7" TRUCK MOUNTABLE CONC. ISLAND (R5,R6).
 -OVERLAP WELDED WIRE MESH PANELS 4".

PAVEMENT SCHEDULE

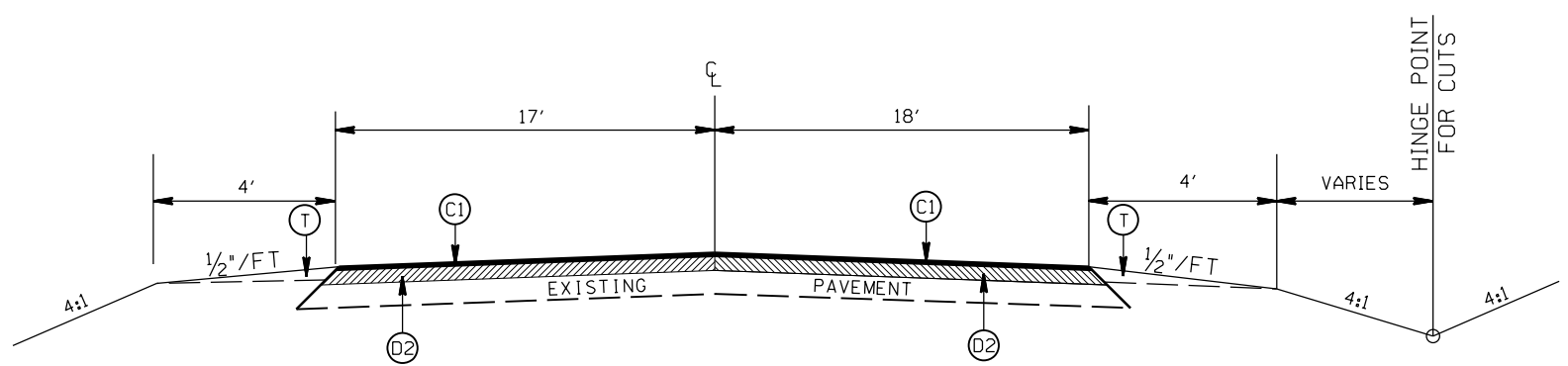
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|------|--|
| (C1) | PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. |
| (C2) | PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS. |
| (D1) | PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. |
| (D2) | PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE. |
| (E1) | PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD. |
| (J) | PROP. 6" ABC BASE COURSE |
| (R1) | PROP. 2'-6" CONC. CURB & GUTTER |
| (R2) | PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE |
| (R3) | PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE |
| (R4) | PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED) |
| (R5) | PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE (BLACK TINT) |
| (R6) | PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE (BLACK TINT) |
| (T) | EARTH MATERIAL |

ROUNDABOUT AT THE INTERSECTION
 OF NC 200 AND NC 218

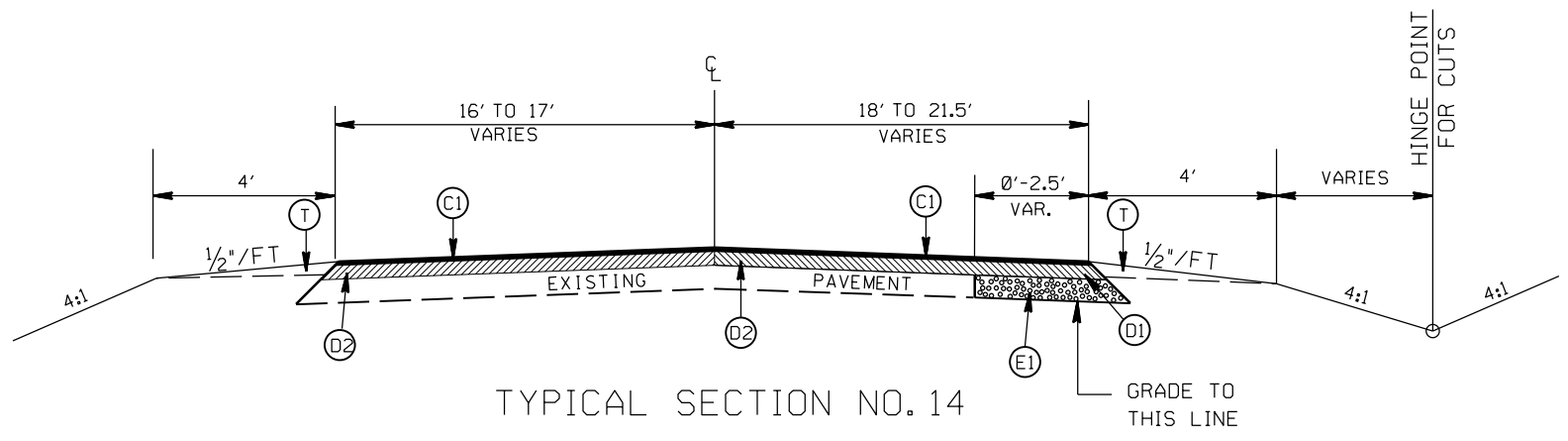
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| SCALE | N/A | | REVISIONS |
| DATE | 8-2020 | | |
| DWG. BY | DLS | | |
| DESIGN BY | JDH | | |
| APPROVED | JDH | | |



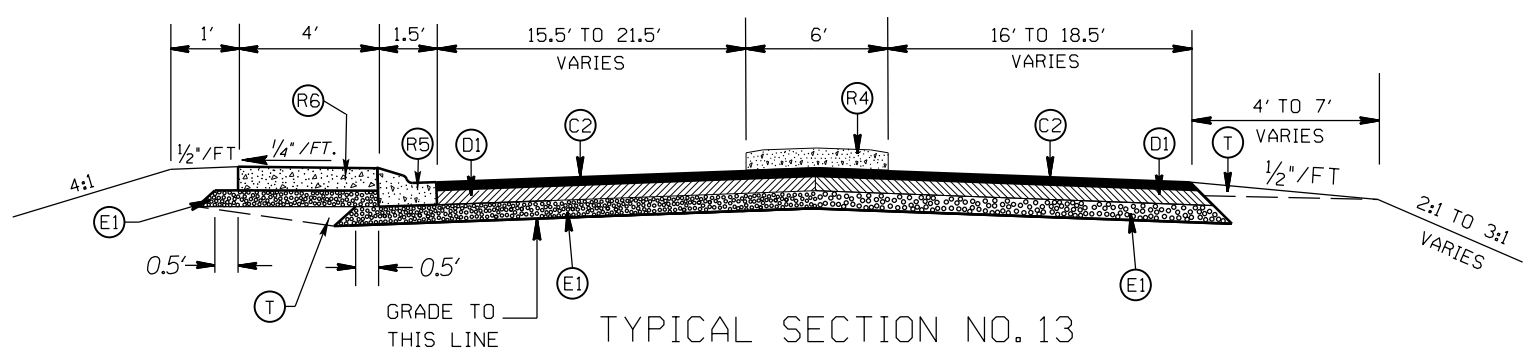
NOTES:
 -UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5) IN PROP. 7" TRUCK MOUNTABLE CONC. ISLAND (R5,R6).
 -OVERLAP WELDED WIRE MESH PANELS 4".



TYPICAL SECTION NO. 15
 STA. 18+30.81 TO 18+50 -Y-



TYPICAL SECTION NO. 14
 STA. 18+05.81 TO 18+30.81 -Y-



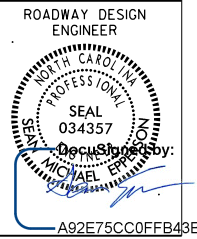
TYPICAL SECTION NO. 13
 STA. 13+88.48 TO 14+31.59 -Y-

PAVEMENT SCHEDULE

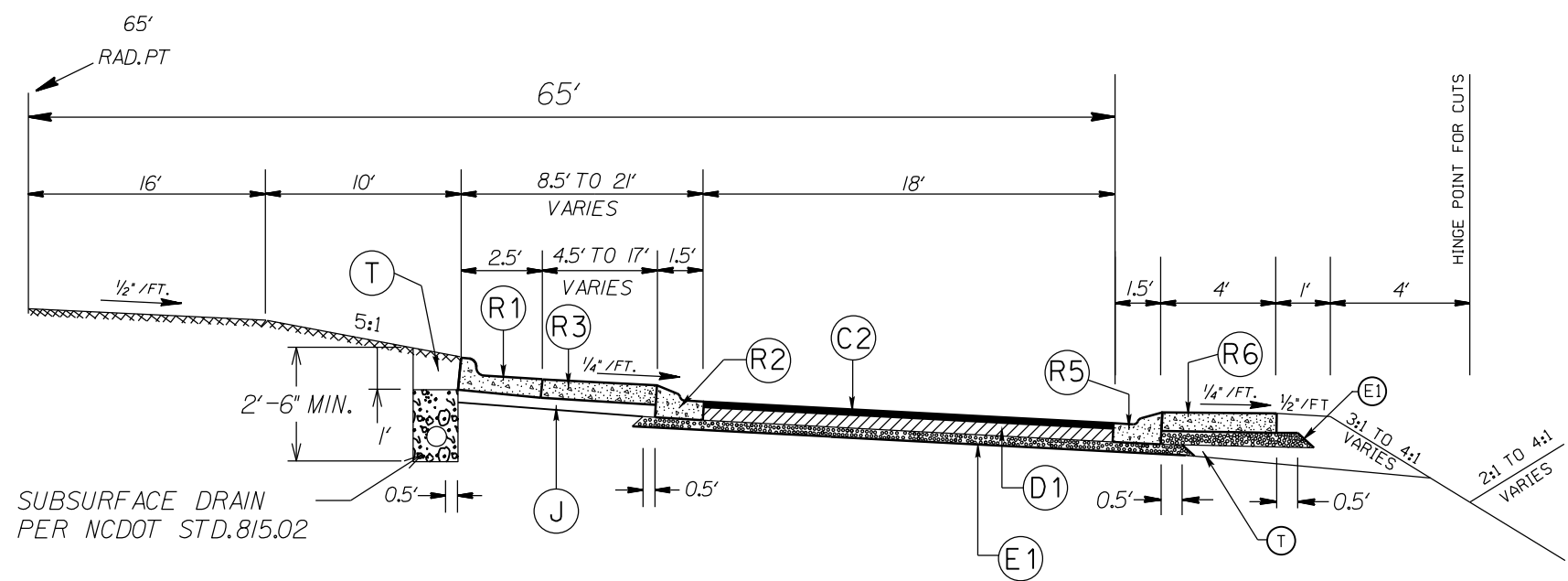
| | |
|------|--|
| (C1) | PROP. APPROX. 1 1/2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. |
| (C2) | PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS. |
| (D1) | PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. |
| (D2) | PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE. |
| (E1) | PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD. |
| (J) | PROP. 6" ABC BASE COURSE |
| (R1) | PROP. 2'-6" CONC. CURB & GUTTER |
| (R2) | PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE |
| (R3) | PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE |
| (R4) | PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED) |
| (R5) | PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE (BLACK TINT) |
| (R6) | PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE (BLACK TINT) |
| (T) | EARTH MATERIAL |

ROUNDABOUT AT THE INTERSECTION
 OF NC 200 AND NC 218

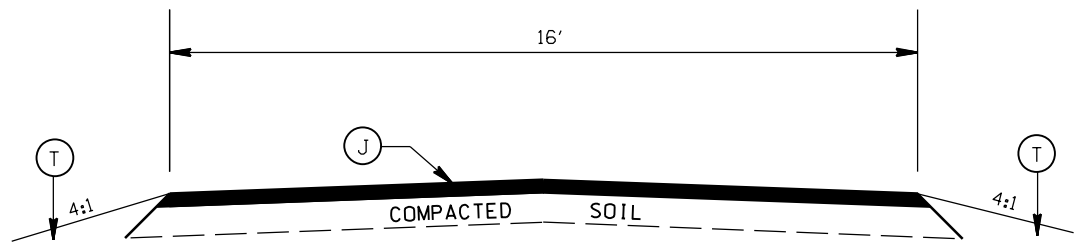
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| SCALE | N/A | | REVISIONS |
| DATE | 8-2020 | | |
| DWG. BY | DLS | | |
| DESIGN BY | JDH | | |
| APPROVED | JDH | | |



NOTES:
 -UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5) IN PROP. 7" TRUCK MOUNTABLE CONC. ISLAND (R5,R6).
 -OVERLAP WELDED WIRE MESH PANELS 4".



TYPICAL SECTION NO. 17
 ROUNDABOUT



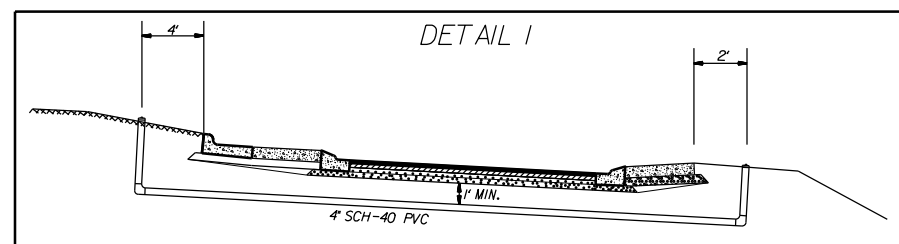
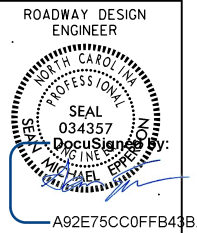
TYPICAL SECTION NO. 16
 STA. 10+18.15 TO 11+72.58 -DRI-

PAVEMENT SCHEDULE

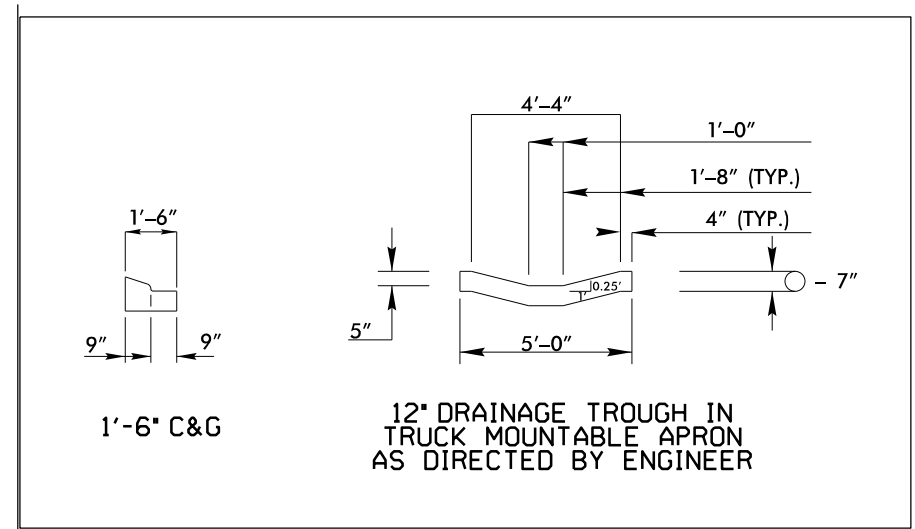
| | |
|------|--|
| (C1) | PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. |
| (C2) | PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS. |
| (D1) | PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. |
| (D2) | PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE. |
| (E1) | PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD. |
| (J) | PROP. 6" ABC BASE COURSE |
| (R1) | PROP. 2'-6" CONC. CURB & GUTTER |
| (R2) | PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE |
| (R3) | PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE |
| (R4) | PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED) |
| (R5) | PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE (BLACK TINT) |
| (R6) | PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE (BLACK TINT) |
| (T) | EARTH MATERIAL |

ROUNDABOUT AT THE INTERSECTION
 OF NC 200 AND NC 218

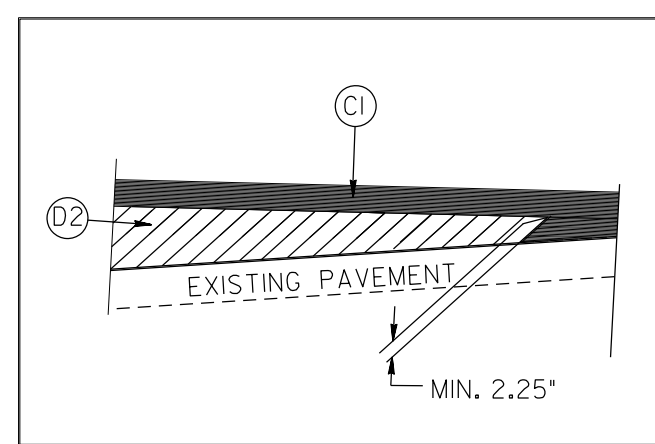
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| SCALE | N/A | | REVISIONS |
| DATE | 8-2020 | | |
| DWG. BY | DLS | | |
| DESIGN BY | JDH | | |
| APPROVED | JDH | | |



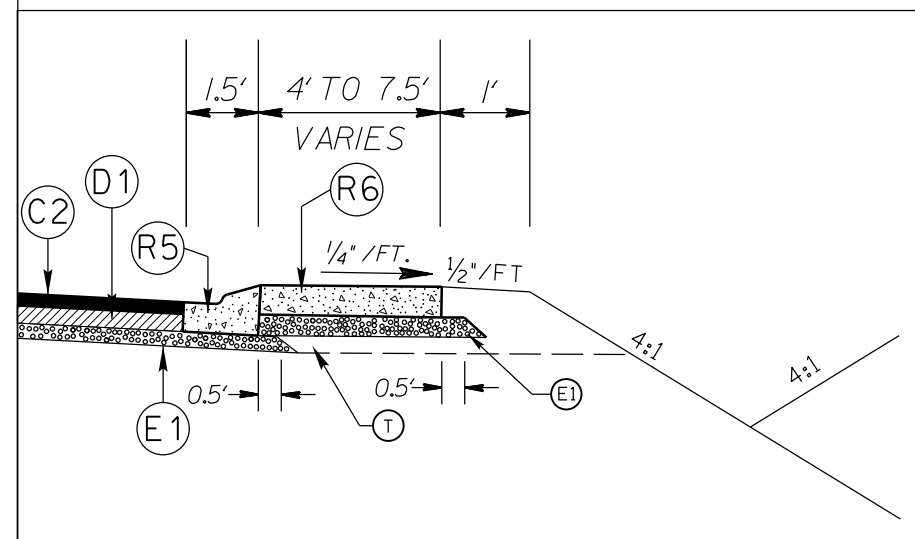
PVC PIPE DETAIL



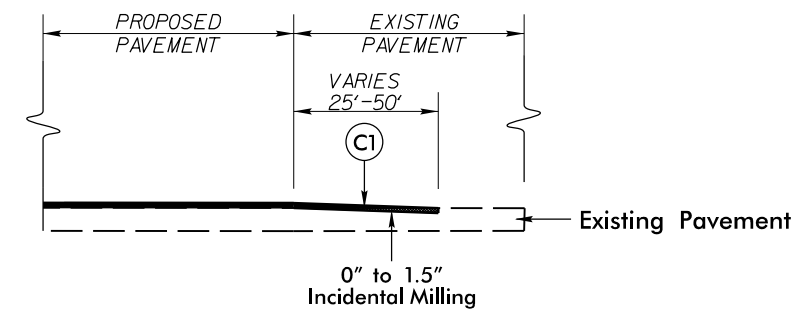
DRAINAGE TROUGH DETAIL



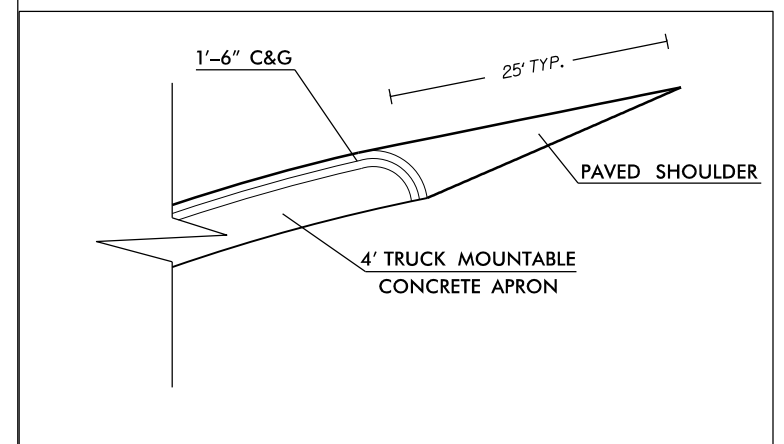
WEDGING DETAIL



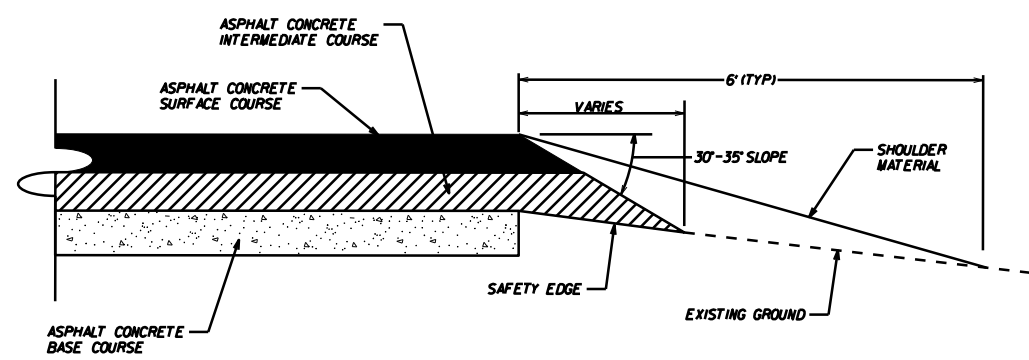
APRON DETAIL



INCIDENTAL MILLING DETAIL
EXISTING ROAD TIE-INS
PROJECT TIE-INS



CURB DETAIL




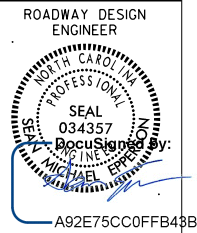
SAFETY EDGE DETAIL

| PAVEMENT SCHEDULE | |
|-------------------|--|
| (C1) | PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. |
| (C2) | PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS. |
| (D1) | PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. |
| (D2) | PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE. |
| (E1) | PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD. |
| (J) | PROP. 6" ABC BASE COURSE |
| (R1) | PROP. 2'-6" CONC. CURB & GUTTER |
| (R2) | PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE |
| (R3) | PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE |
| (R4) | PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED) |
| (R5) | PROP. 1'-6" CONC. CURB & GUTTER, CLASS AA CONCRETE (BLACK TINT) |
| (R6) | PROP. 7" TRUCK MOUNTABLE CONC. ISLAND, CLASS AA CONCRETE (BLACK TINT) |
| (T) | EARTH MATERIAL |

NOTES:
 -UTILIZE WELDED WIRE MESH (EITHER 4X4 W3.5XW3.5 OR 6X6 W5XW5) IN PROP. 7" TRUCK MOUNTABLE CONC. ISLAND (R5,R6).
 -OVERLAP WELDED WIRE MESH PANELS 4".

ROUNDABOUT AT THE INTERSECTION
OF NC 200 AND NC 218

| | | | |
|-----------|---------|---|-----------|
| SCALE | N/A |  | REVISIONS |
| DATE | 09-2020 | | |
| DWG. BY | CEB | | |
| DESIGN BY | JDH | | |
| APPROVED | JDH | | |

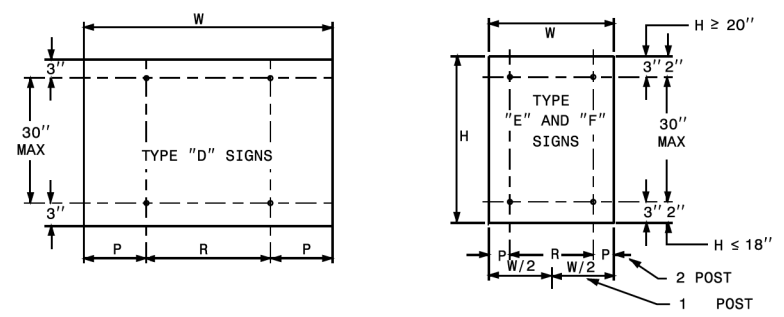
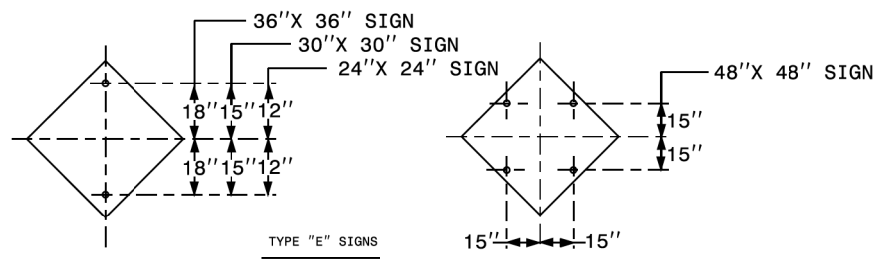


STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
MOUNTING OF
TYPE 'D', 'E' AND 'F' SIGNS
ON 'U' CHANNEL POSTS

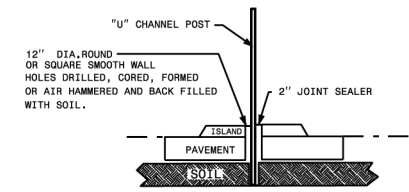
SHEET 2 OF 2
904.50



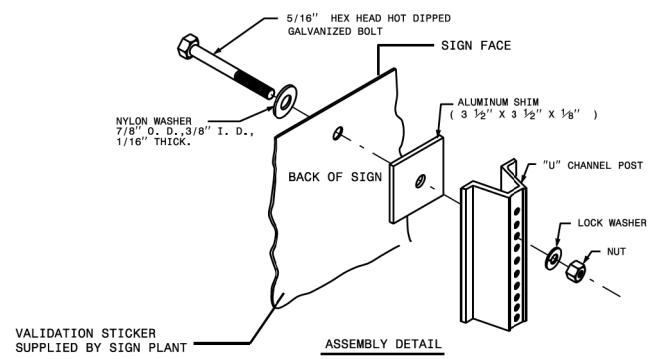
| | NO. SUPPORTS | | |
|---|--------------|-------|-------|
| | 2 | 3 * | 4 |
| P | .207W | .145W | .107W |
| R | .586W | .355W | .262W |

UNITS ON ATTACHED SHEET
* MINIMUM 4 FT. BETWEEN CHANNEL POSTS

HOLE PUNCHING DETAIL



DETAIL FOR INSTALLATION OF CHANNEL POST IN CONCRETE



ASSEMBLY DETAIL

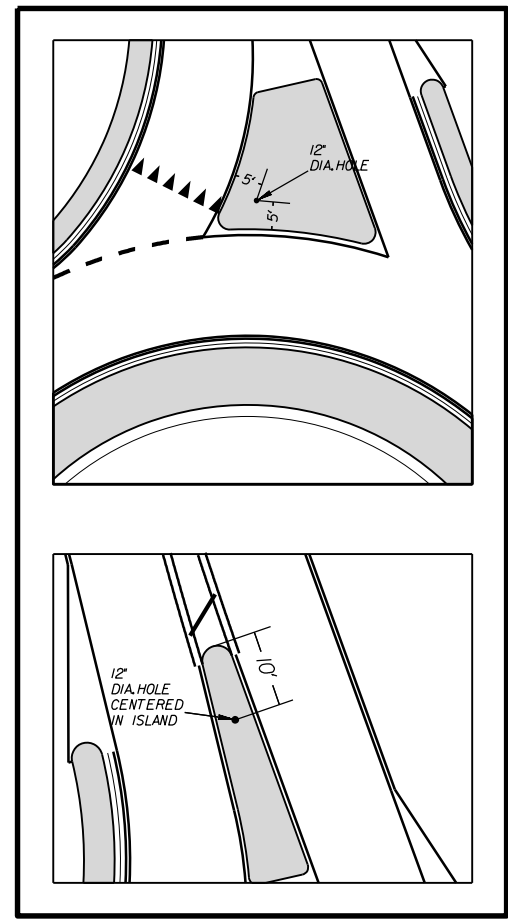
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
MOUNTING OF
TYPE 'D', 'E' AND 'F' SIGNS
ON 'U' CHANNEL POSTS

SHEET 2 OF 2
904.50

12" DIA. HOLE LOCATION FOR SIGN U-CHANNEL POST IN SPLITTER ISLANDS

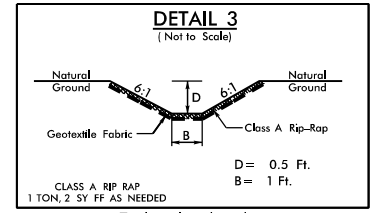
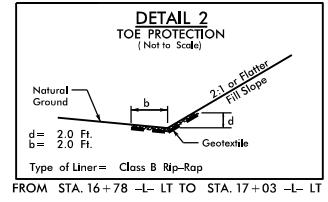
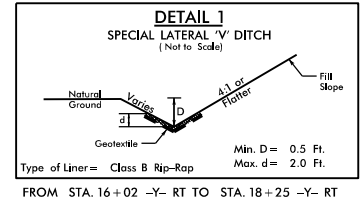
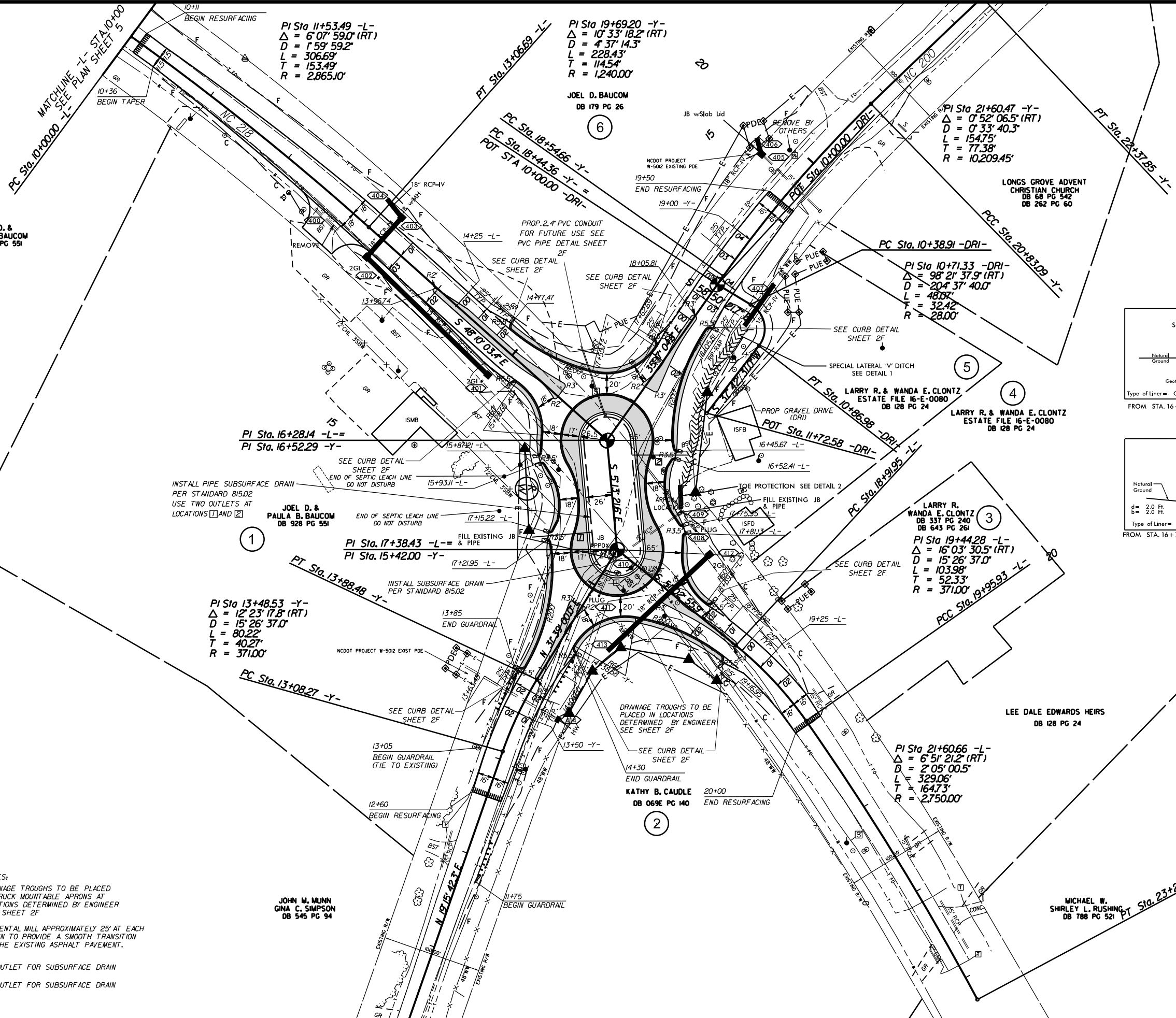
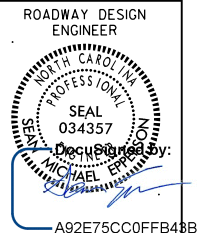


ROUNDABOUT AT THE INTERSECTION OF NC 200 AND NC 218

| | |
|-----------|--------|
| SCALE | N/A |
| DATE | 8-2020 |
| DWG. BY | DLS |
| DESIGN BY | JDH |
| APPROVED | JDH |



| REVISIONS | |
|-----------|--|
| | |
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| | |



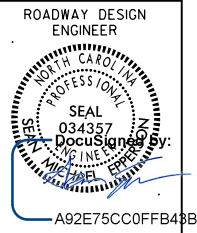
To be placed at the end of Curb Turnouts as directed by the Engineer.

NOTES:
DRAINAGE TROUGHS TO BE PLACED IN TRUCK MOUNTABLE APRONS AT LOCATIONS DETERMINED BY ENGINEER SEE SHEET 2F
INCIDENTAL MILL APPROXIMATELY 25' AT EACH TIE IN TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING ASPHALT PAVEMENT.

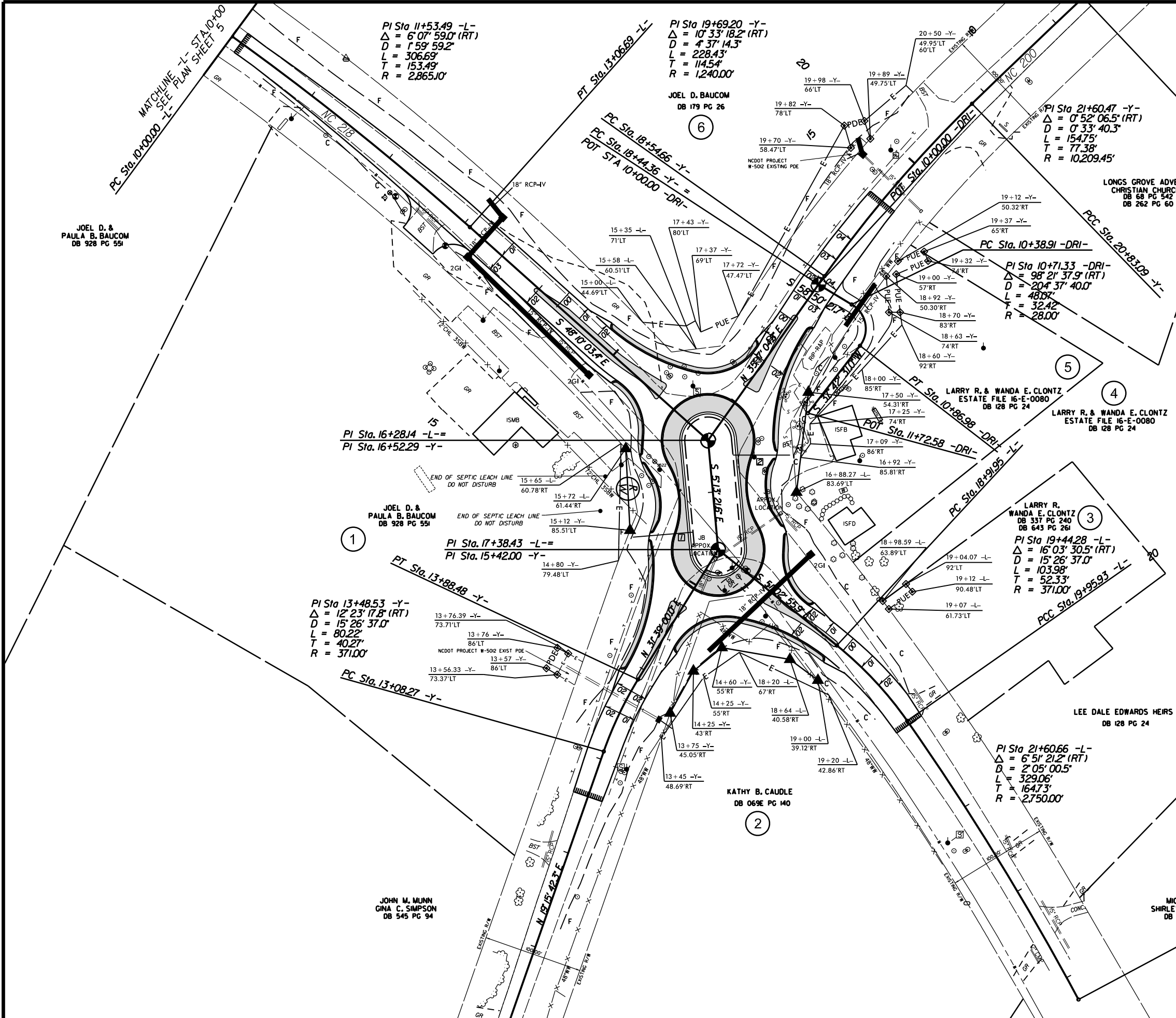
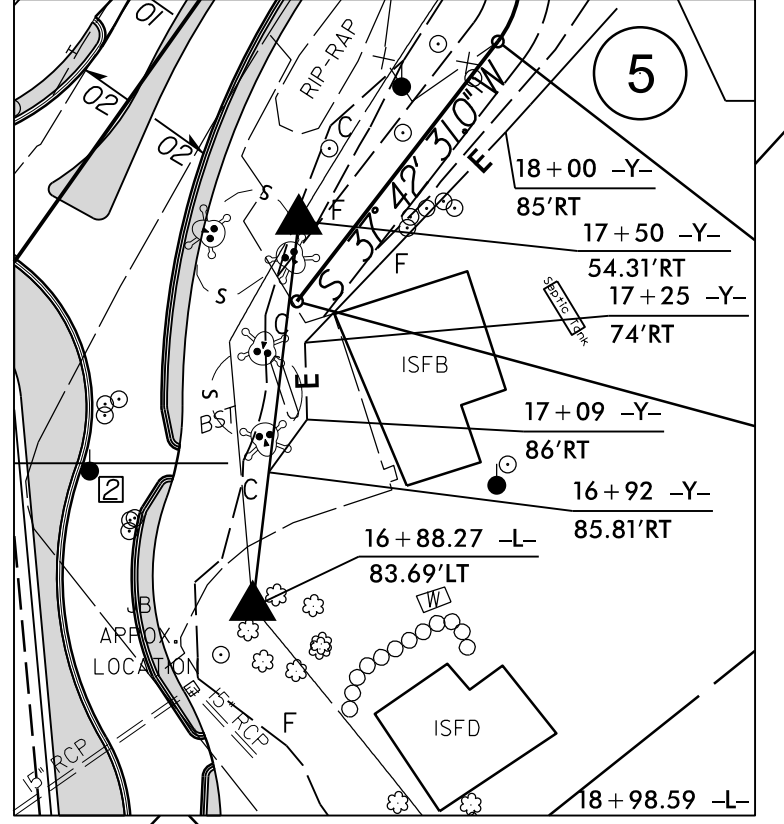
- OUTLET FOR SUBSURFACE DRAIN
- ▣ OUTLET FOR SUBSURFACE DRAIN

JOHN M. MUNN
GINA C. SIMPSON
DB 545 PG 94

| | | | | | | | | | | | | | | | | |
|-----------|--|---------|--|---|--|--|--|--|--|--|--|--|--|--|--|--|
| SCALE | | r=50' | | REVISIONS <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table> | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | |
| DATE | | 01-2020 | | | | | | | | | | | | | | |
| DWG. BY | | CEB | | | | | | | | | | | | | | |
| DESIGN BY | | JDH | | | | | | | | | | | | | | |
| APPROVED | | JDH | | | | | | | | | | | | | | |



NOTE:
FOR CONTAMINATED SOIL AREAS,
REFER TO CONTRACT SPECIAL PROVISIONS
GEOENVIRONMENTAL GV-1.



JOEL D. & PAULA B. BAUCOM
DB 928 PG 551

JOEL D. & PAULA B. BAUCOM
DB 928 PG 551

JOHN M. MUNN
GINA C. SIMPSON
DB 545 PG 94

JOEL D. BAUCOM
DB 179 PG 26

KATHY B. CAUDLE
DB 069E PG 140

LARRY R. & WANDA E. CLONTZ
ESTATE FILE 16-E-0080
DB 128 PG 24

LARRY R. & WANDA E. CLONTZ
ESTATE FILE 16-E-0080
DB 128 PG 24

LARRY R. & WANDA E. CLONTZ
ESTATE FILE 16-E-0080
DB 128 PG 24

LEE DALE EDWARDS HEIRS
DB 128 PG 24

MICHAEL W. RUSHING
DB 788 PG 521

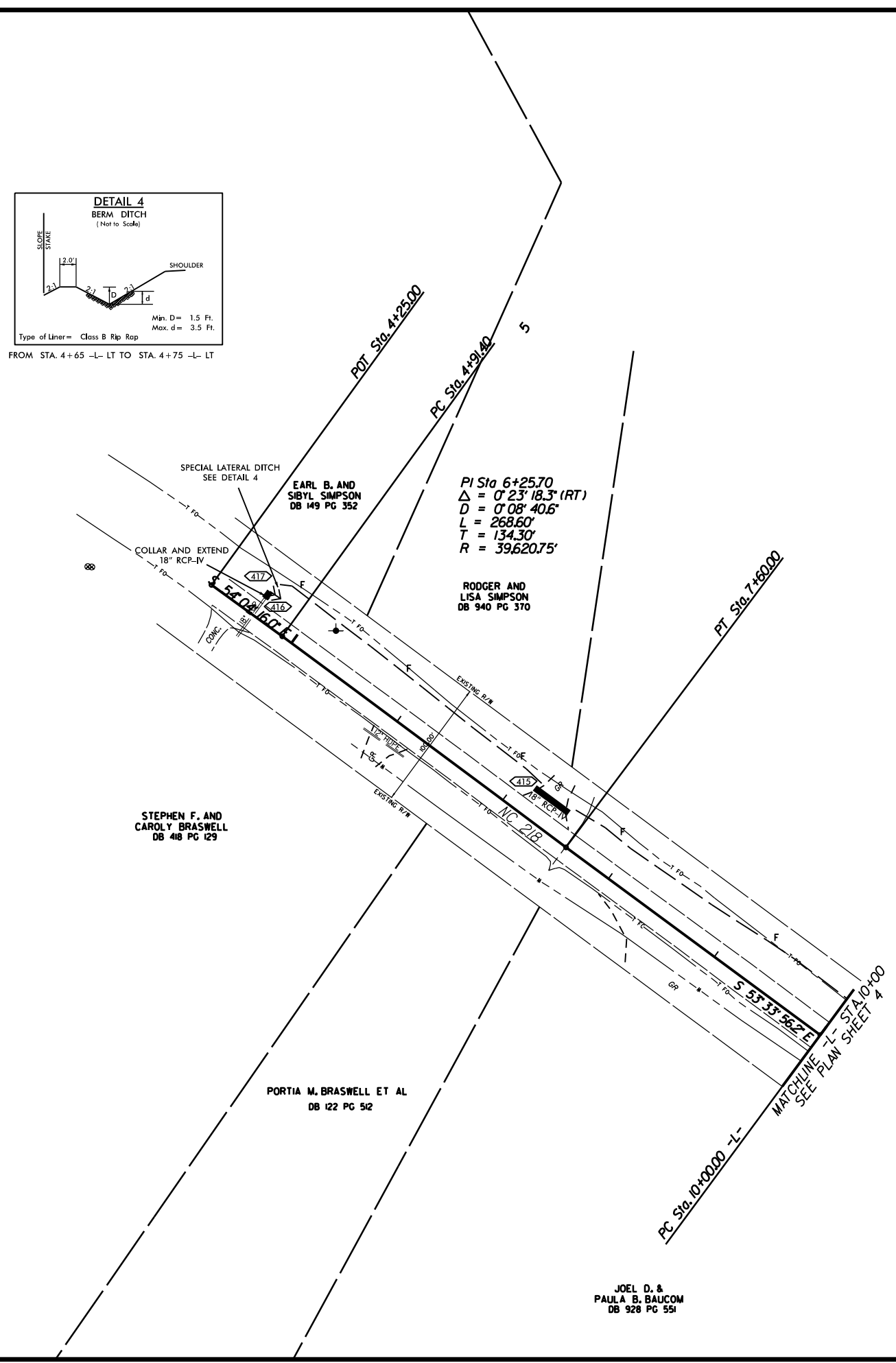
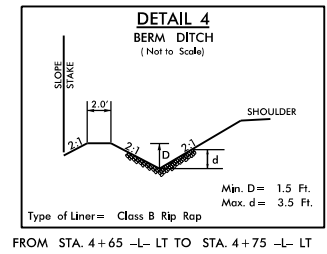
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| ROUNDABOUT AT THE INTERSECTION OF NC 200 AND NC 218 | |
| SCALE | 1"=50' |
| DATE | 09-2020 |
| DWG. BY | CEB |
| DESIGN BY | JDH |
| APPROVED | JDH |
| REVISIONS | |

| | |
|---------------------------------|-----------|
| PROJECT NO. | SHEET NO. |
| 44856.3.9 | 5 |
| F.A. PROJECT NO. HSIP-020010051 | |

ROADWAY DESIGN ENGINEER

SEAL 034357
MICHAEL J. BAUCUM
ENGINEER

A92E75CC0FFB43B



NOTE: INCIDENTAL MILL APPROXIMATELY 25' AT EACH TIE IN TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING ASPHALT PAVEMENT.

ROUNDABOUT AT THE INTERSECTION
OF NC 200 AND NC 218

| | | | |
|-----------|---------|--|-----------|
| SCALE | 1"=50' | | REVISIONS |
| DATE | 01-2020 | | |
| DWG. BY | CEB | | |
| DESIGN BY | JDH | | |
| APPROVED | JDH | | |

JOEL D. &
PAULA B. BAUCOM
DB 928 PG 551

STEPHEN F. AND
CAROLY BRASWELL
DB 418 PG 129

PORTIA M. BRASWELL ET AL
DB 122 PG 512

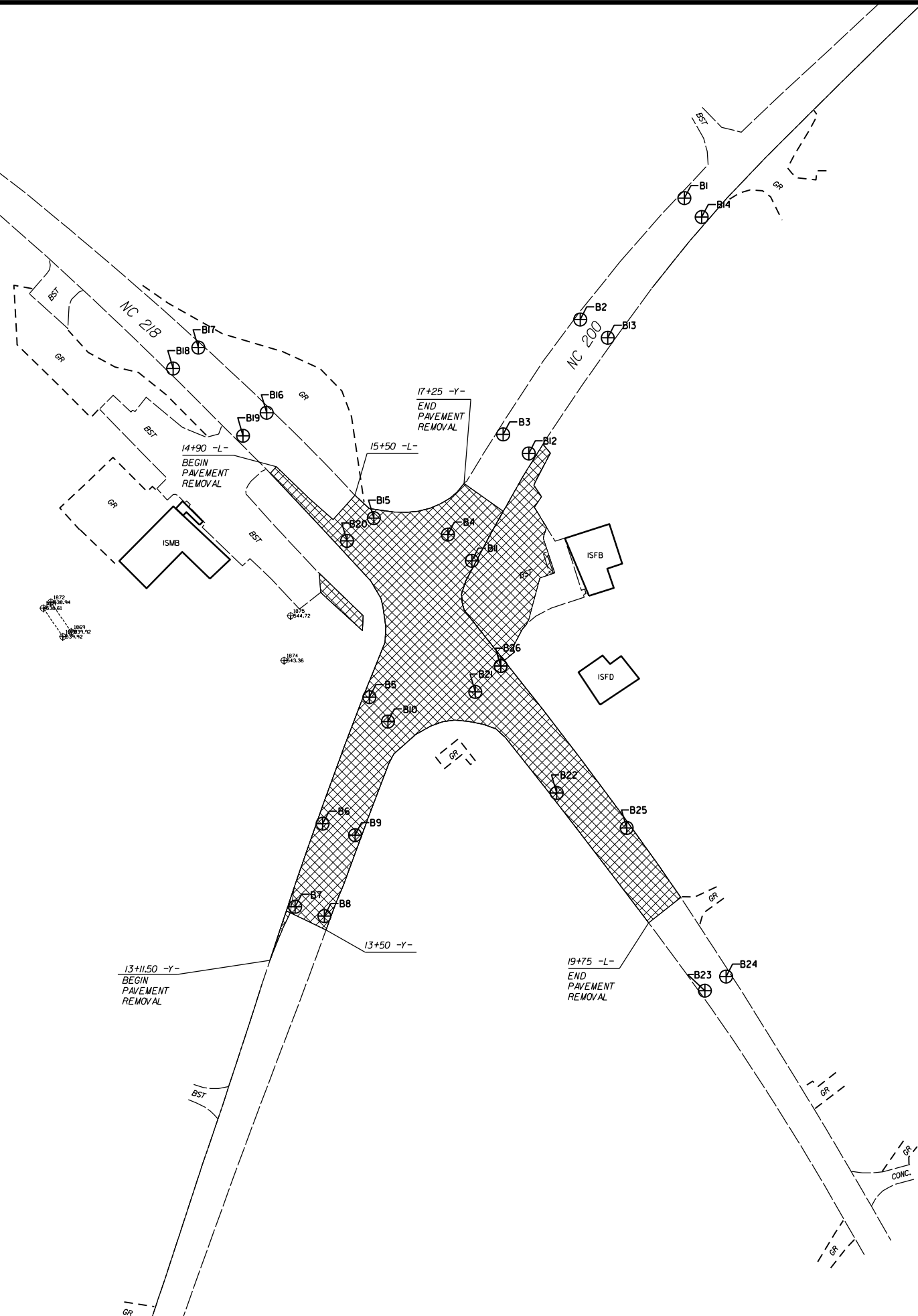
RODGER AND
LISA SIMPSON
DB 940 PG 370

EARL B. AND
SIBYL SIMPSON
DB 149 PG 352

ROADWAY DESIGN ENGINEER

DocuSigner By: MICHAEL J. DOHERTY
A92E75CC0FFB4B

| BORING NUM. | STATION | ASPHALT THICKNESS |
|-------------|---------------------|-------------------|
| B1 | 20+04.4 10J LT -Y- | 0.8' |
| B2 | 18+81.2 12.9 LT -Y- | 1.1' |
| B3 | 17+73.8 9.9 LT -Y- | 1.4' |
| B4 | 16+85.3 C/L -Y- | 0.9' |
| B5 | 15+23.6 49.7 LT -Y- | 2.3' |
| B6 | 14+20.6 29J LT -Y- | 2.1' |
| B7 | 13+55.6 14.8 LT -Y- | 1.2' |
| B8 | 13+59.4 8.7 RT -Y- | 2.0' |
| B9 | 14+26.3 2.9 LT -Y- | 2.2' |
| B10 | 15+15.0 27.5 LT -Y- | 1.9' |
| B11 | 16+79.5 27.0 RT -Y- | 4.4' |
| B12 | 17+73.2 14.9 RT -Y- | 2.1' |
| B13 | 18+82.4 12.8 RT -Y- | 1.7' |
| B14 | 20+02.6 9.8 RT -Y- | 1.2' |
| B15 | 15+72.8 3.9 LT -L- | 0.8' |
| B16 | 14+56.0 9.4 LT -L- | 1.6' |
| B17 | 13+82.7 11.7 LT -L- | 1.4' |
| B18 | 13+78.9 13.5 RT -L- | 1.0' |
| B19 | 14+54.3 16.2 RT -L- | 1.0' |
| B20 | 15+69.2 23.2 RT -L- | 0.9' |
| B21 | 17+53.0 30.3 LT -L- | 2.0' |
| B22 | 18+51.7 9.0 LT -L- | 2.0' |
| B23 | 20+44.4 10.3 RT -L- | 1.1' |
| B24 | 20+44.5 9.5 LT -L- | 1.3' |
| B25 | 19+10.0 22.6 LT -L- | 2.0' |
| B26 | 17+08.6 53J LT -L- | 1.8' |

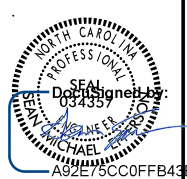


NOTE: ALL PAVEMENT REMOVAL PAVEMENT INCIDENTAL TO LUMP SUM 226 GRADING

ROUNDBOUT AT THE INTERSECTION OF NC 200 AND NC 218

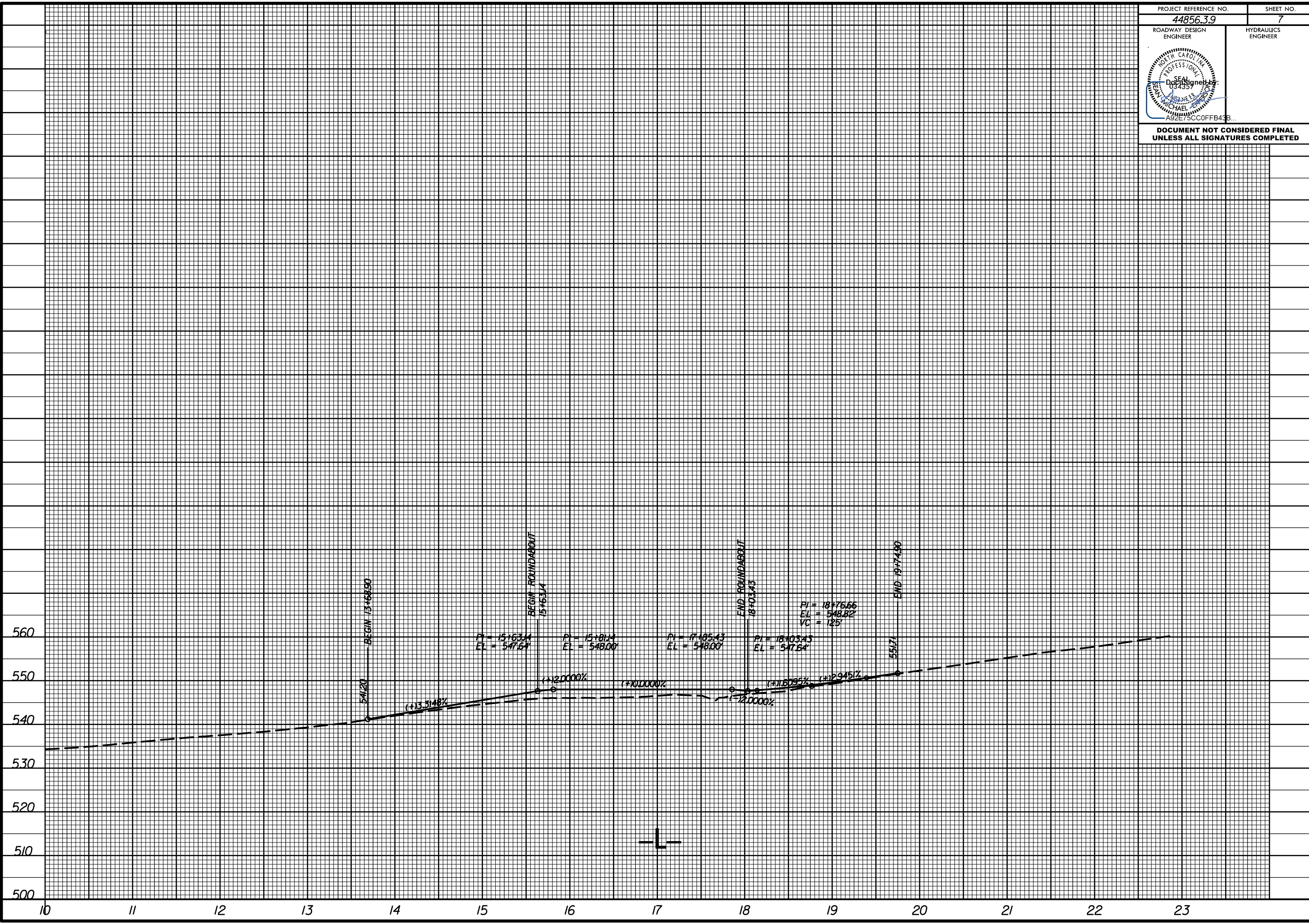
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|-----------|---------|--|-----------|
| SCALE | r=50' | | REVISIONS |
| DATE | 12-2019 | | |
| DWG. BY | CEB | | |
| DESIGN BY | JDH | | |
| APPROVED | JDH | | |

5/14/99



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

12-JUL-2022 09:12 S:\06\200\218-RAB\p1\w-57101_NC200_NC218_RAB_p1.L.dgn



541.20 BEGIN 13+60.50

BEGIN ROUNDABOUT 15+63.14

END ROUNDABOUT 18+03.43

END 19+74.90

PI = 15+63.14 EL = 547.64

PI = 15+81.14 EL = 548.00

PI = 17+85.43 EL = 548.00

PI = 18+03.43 EL = 547.64

PI = 18+76.66 EL = 548.82 VC = 125

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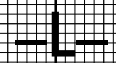
(+)-2.0000%

(+)-1.0000%

(+)-1.6095%

(-)-2.945%

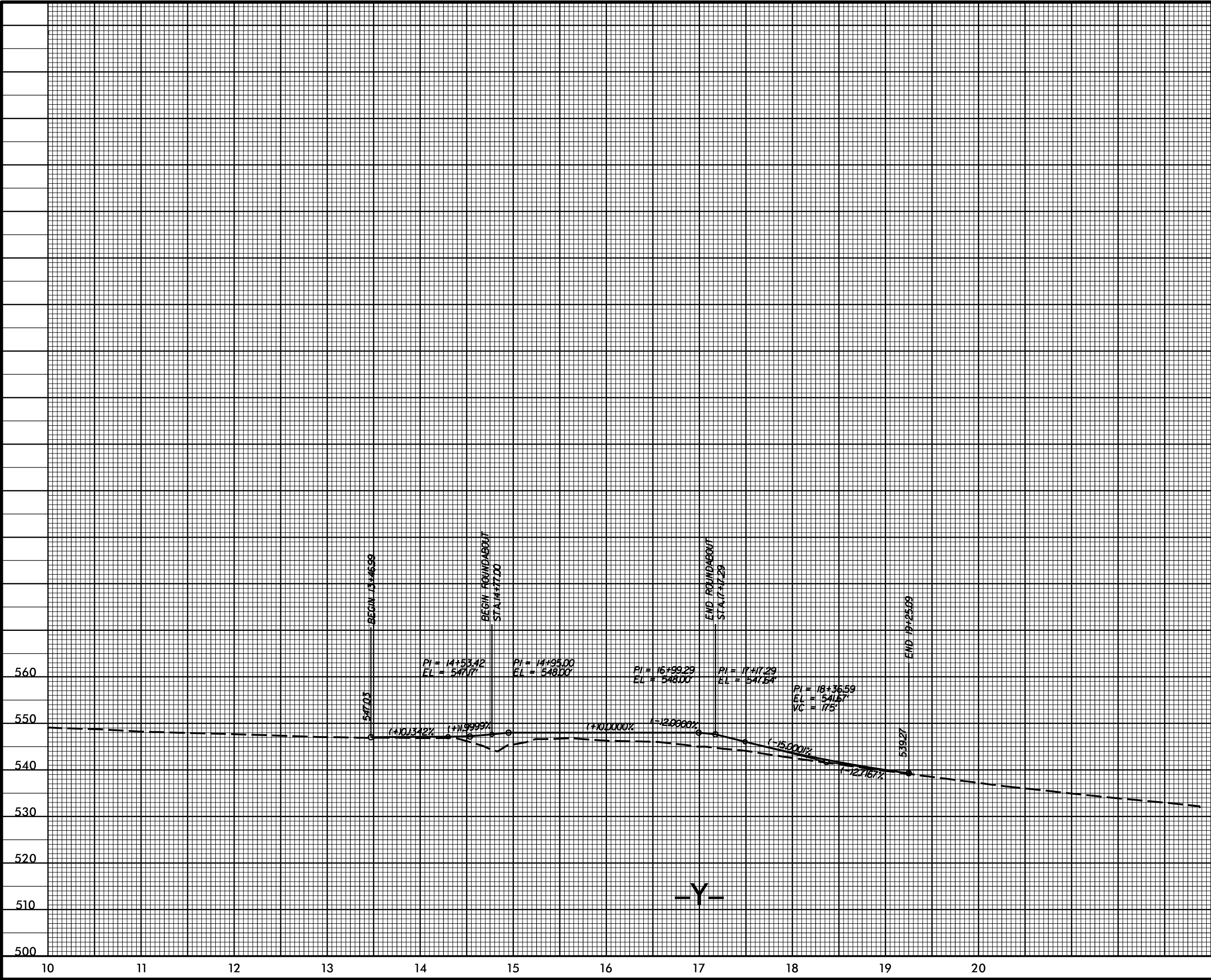
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5/14/99

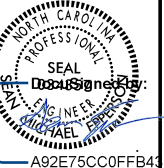
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|--|------------------------|
| PROJECT REFERENCE NO. 44856.3.9 | SHEET NO. 8 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

28-JUN-2022 10:56 S:\DCK\WORK\Union\W-57101_NC_200_NC_218-RAB.pfl\W-57101_NC200_NC218_RAB.pfl_Y.dgn



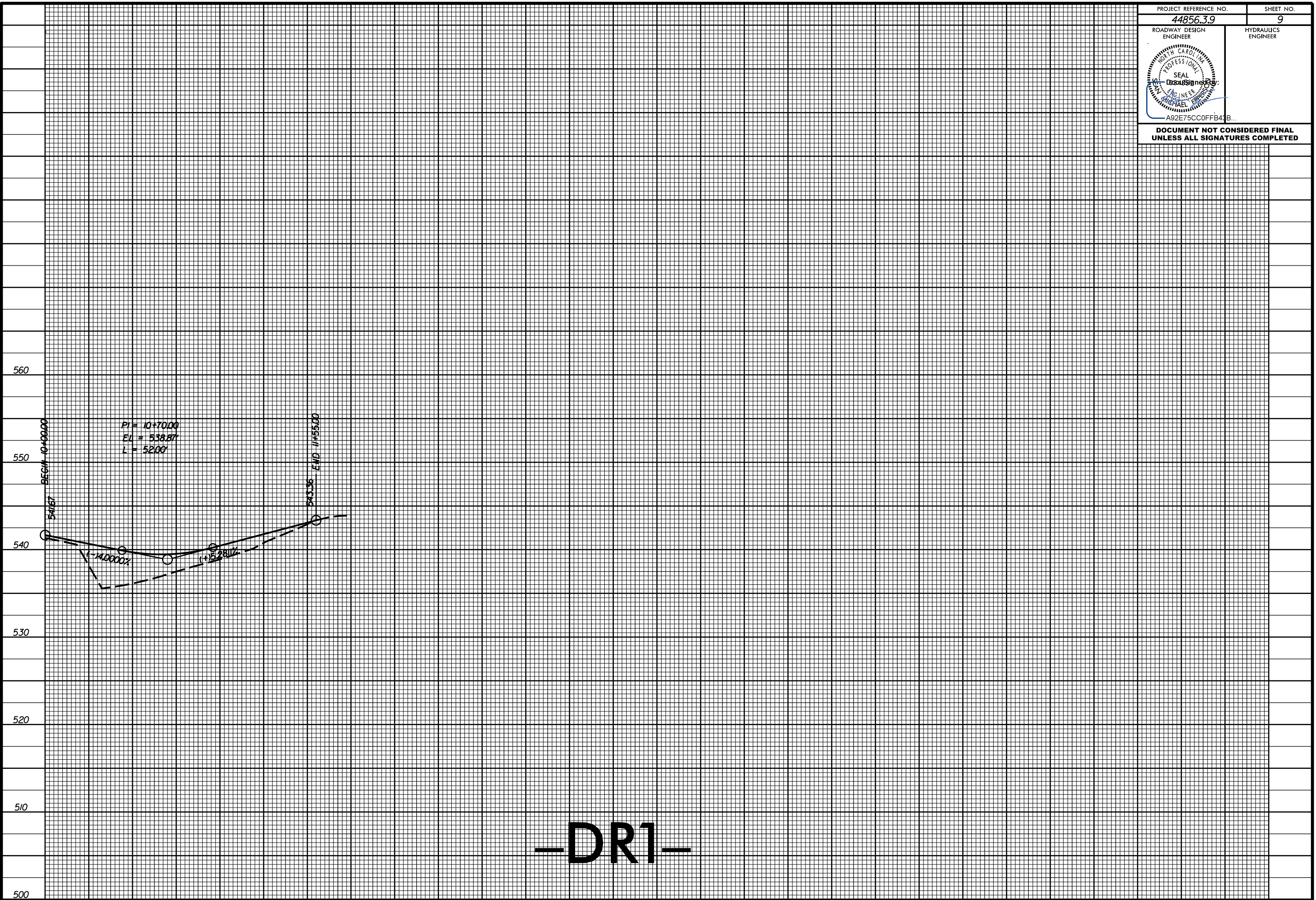
-Y-

5/14/99

| | |
|---|------------------------|
| PROJECT REFERENCE NO. 44856.3.9 | SHEET NO. 9 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
|  | |
| A92E75CC0FFB41B... | |

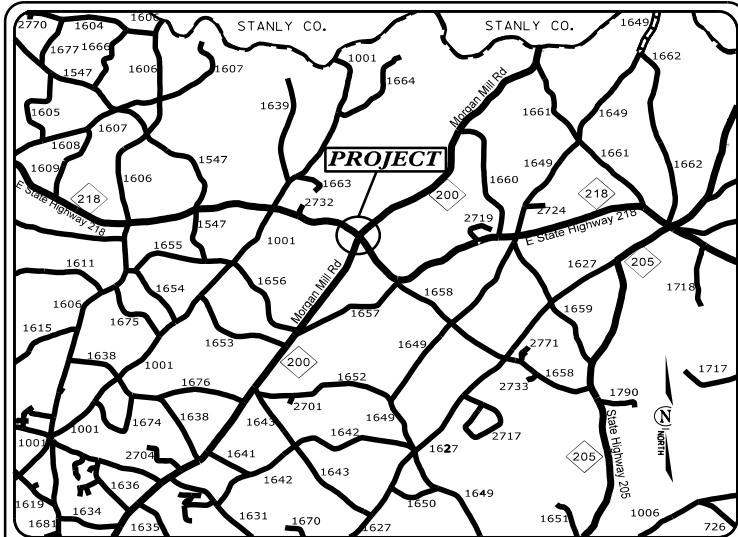
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

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5/14/99



-DRI-

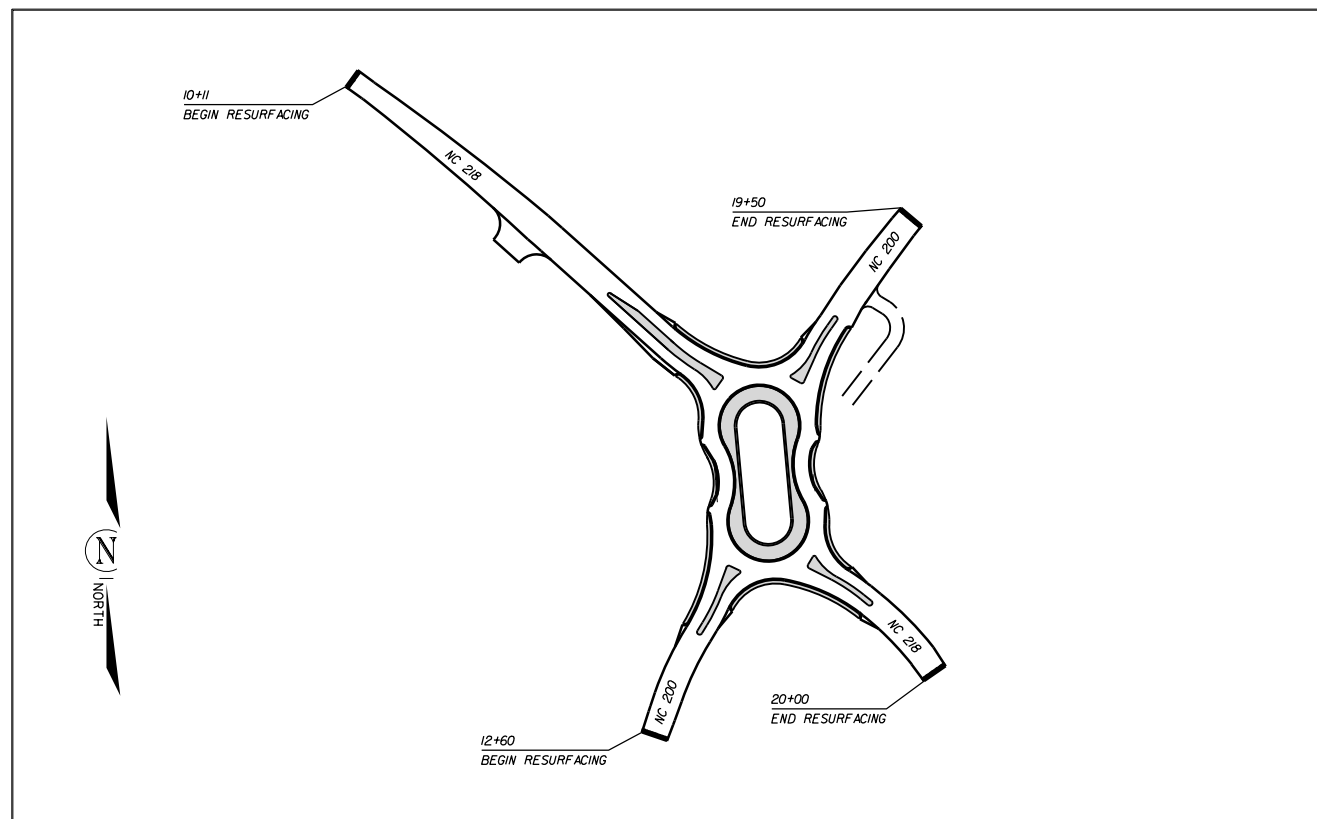
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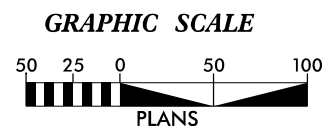
VICINITY MAP
NOT TO SCALE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL
UNION COUNTY

LOCATION: INTERSECTION OF NC 200 AND NC 218



INSTALL PERIMETER EROSION CONTROL MEASURES DURING INITIAL CLEARING PHASE



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.



Prepared In the Office of:
DDC UNIT DIVISION 10
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Designed by:
CHAD BURRIS 4159
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

| | |
|--|--|
| 1604.01 Railroad Erosion Control Detail | 1632.01 Rock Inlet Sediment Trap Type A |
| 1605.01 Temporary Silt Fence | 1632.02 Rock Inlet Sediment Trap Type J |
| 1606.01 Special Sediment Control Fence | 1632.03 Rock Inlet Sediment Trap Type C |
| 1607.01 Gravel Construction Entrance | 1633.01 Temporary Rock Silt Check Type A |
| 1622.01 Temporary Berms and Slope Drains | 1633.02 Temporary Rock Silt Check Type J |
| 1630.01 Riser Basin | 1634.01 Temporary Rock Sediment Dam Type A |
| 1630.02 Silt Basin Type J | 1634.02 Temporary Rock Sediment Dam Type J |
| 1630.03 Temporary Silt Ditch | 1635.01 Rock Pipe Inlet Sediment Trap Type A |
| 1630.04 Stilling Basin | 1635.02 Rock Pipe Inlet Sediment Trap Type J |
| 1630.05 Temporary Diversion | 1640.01 Coir Fiber Jaffle |
| 1630.06 Special Stilling Basin | 1645.01 Temporary Stream Crossing |
| 1631.01 Matting Installation | |

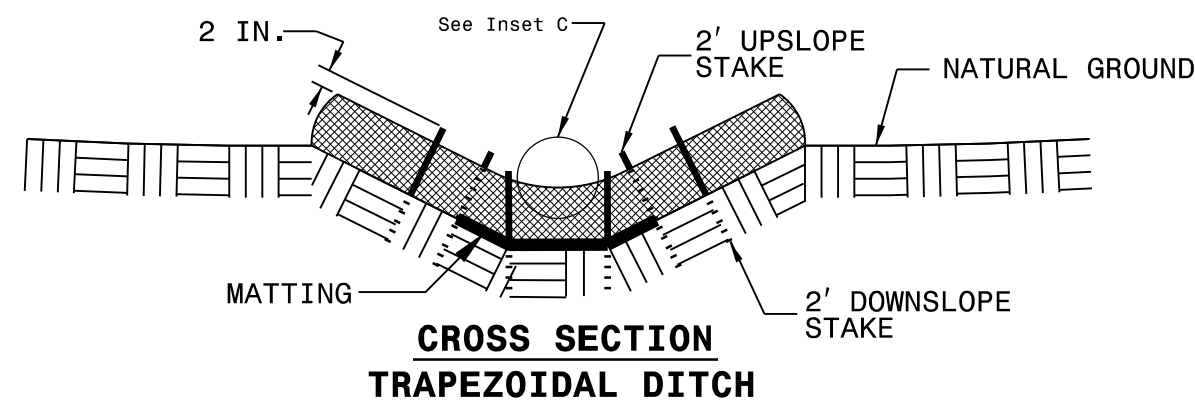
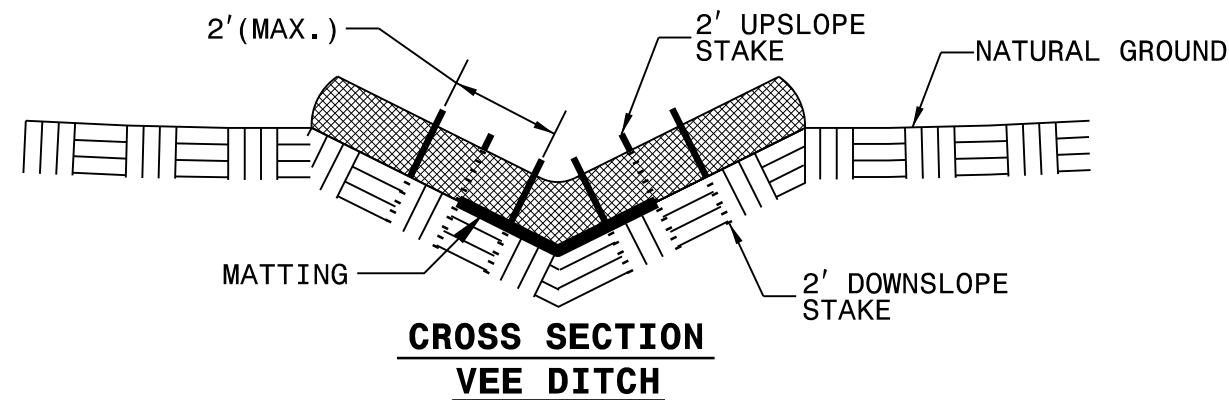
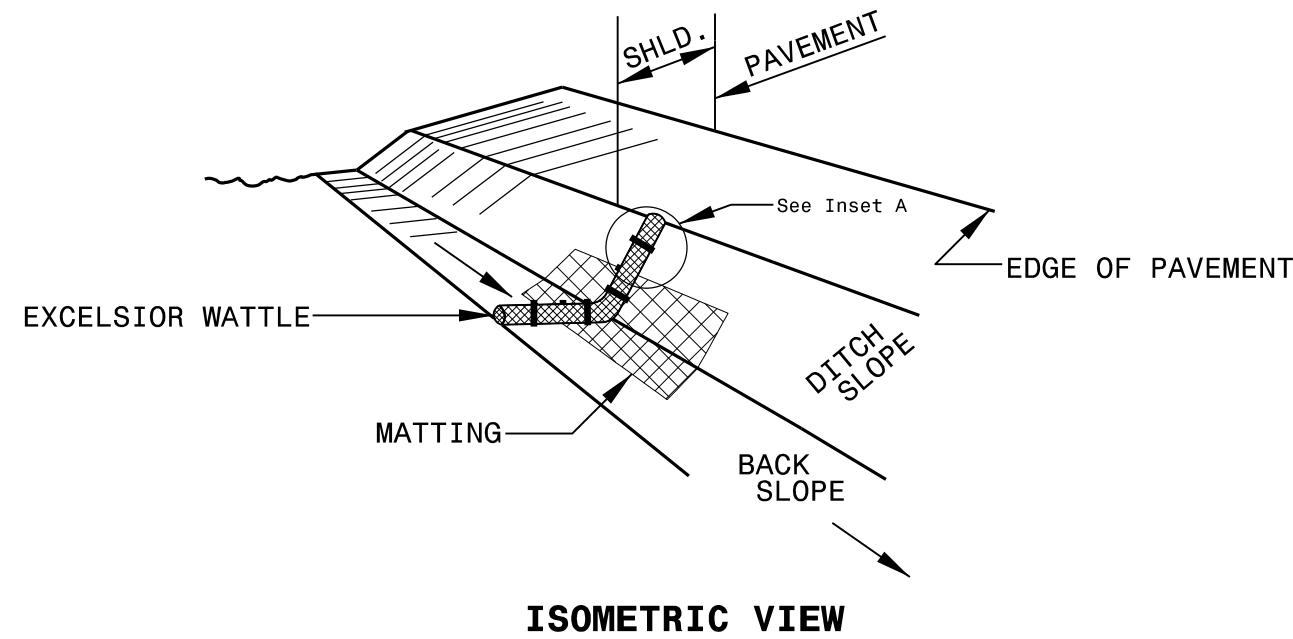
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C. | 44856.3.9 | EC-1 | |
| STATE PROJ. NO. | P.A. PROJ. NO. | DESCRIPTION | |
| 44856.1.9 | HSIP-0200(005) | P.E. | |
| 44856.2.9 | HSIP-0200(005) | R/W | |
| 44856.3.9 | HSIP-0200(005) | CONST. | |

EROSION AND SEDIMENT CONTROL MEASURES

| Std. # | Description | Symbol |
|---------|--|------------|
| 1650.03 | Temporary Silt Ditch | --- |
| 1650.05 | Temporary Diversion | ---TD--- |
| 1605.01 | Temporary Silt Fence | ---H--- |
| 1606.01 | Special Sediment Control Fence | ---Z--- |
| 1622.01 | Temporary Berms and Slope Drains | ---B--- |
| 1650.02 | Silt Basin Type B | ---S--- |
| 1633.01 | Temporary Rock Silt Check Type-A | ---R--- |
| | Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM) | ---RPM--- |
| 1633.02 | Temporary Rock Silt Check Type-B | ---RB--- |
| | Wattle / Coir Fiber Wattle | ---W--- |
| | Wattle / Coir Fiber Wattle with Polyacrylamide (PAM) | ---WPM--- |
| 1634.01 | Temporary Rock Sediment Dam Type-A | ---SDA--- |
| 1634.02 | Temporary Rock Sediment Dam Type-B | ---SDB--- |
| 1635.01 | Rock Pipe Inlet Sediment Trap Type-A | ---RPIA--- |
| 1635.02 | Rock Pipe Inlet Sediment Trap Type-B | ---RPB--- |
| 1650.04 | Stilling Basin | ---SB--- |
| 1650.06 | Special Stilling Basin | ---SSB--- |
| | Rock Inlet Sediment Trap: | |
| 1652.01 | Type A | ---RIA--- |
| 1652.02 | Type B | ---RIB--- |
| 1652.03 | Type C | ---RIC--- |
| | Skimmer Basin | ---SKB--- |
| | Tiered Skimmer Basin | ---TSKB--- |
| | Infiltration Basin | ---IB--- |

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

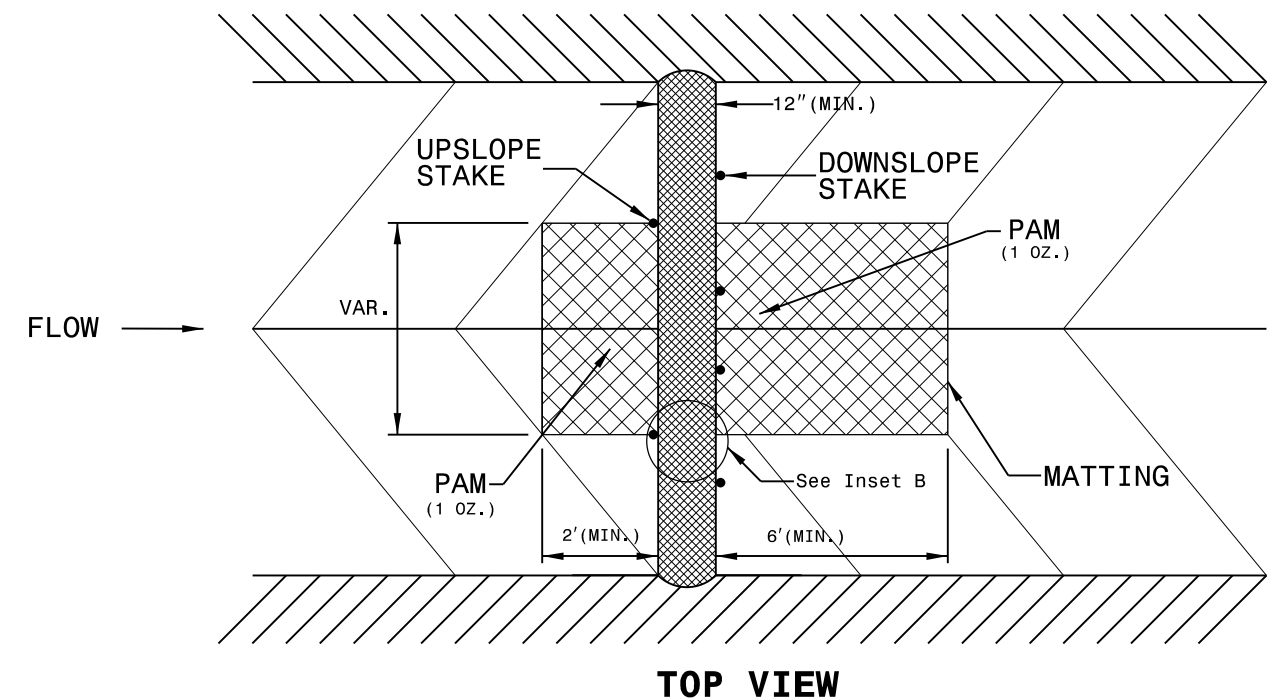
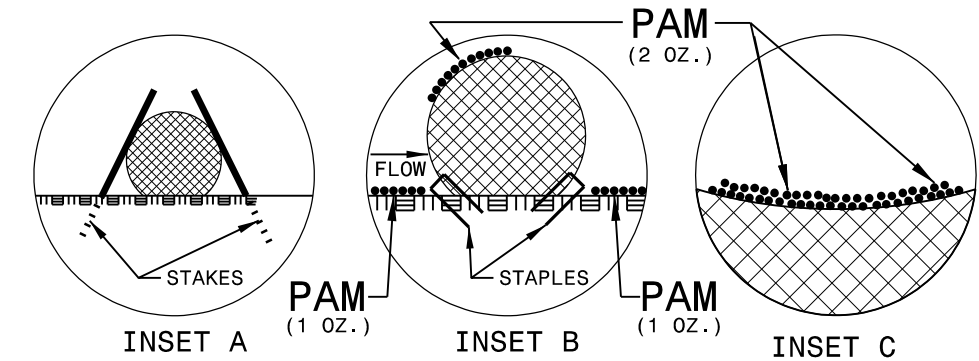
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

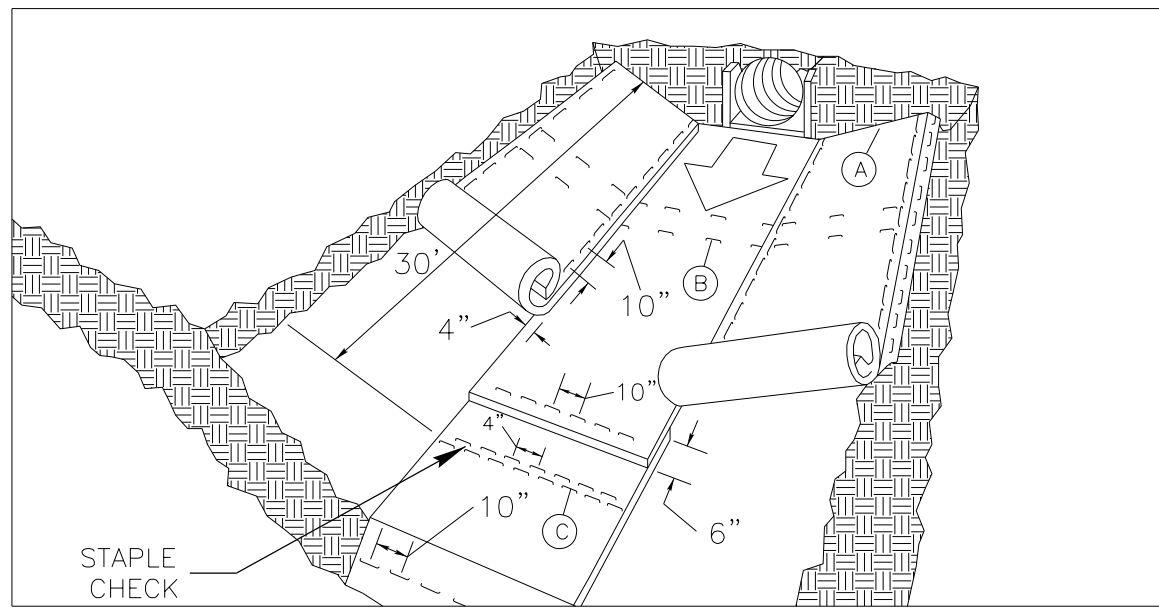
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



MATTING INSTALLATION DETAIL



MATTING IN DITCHES

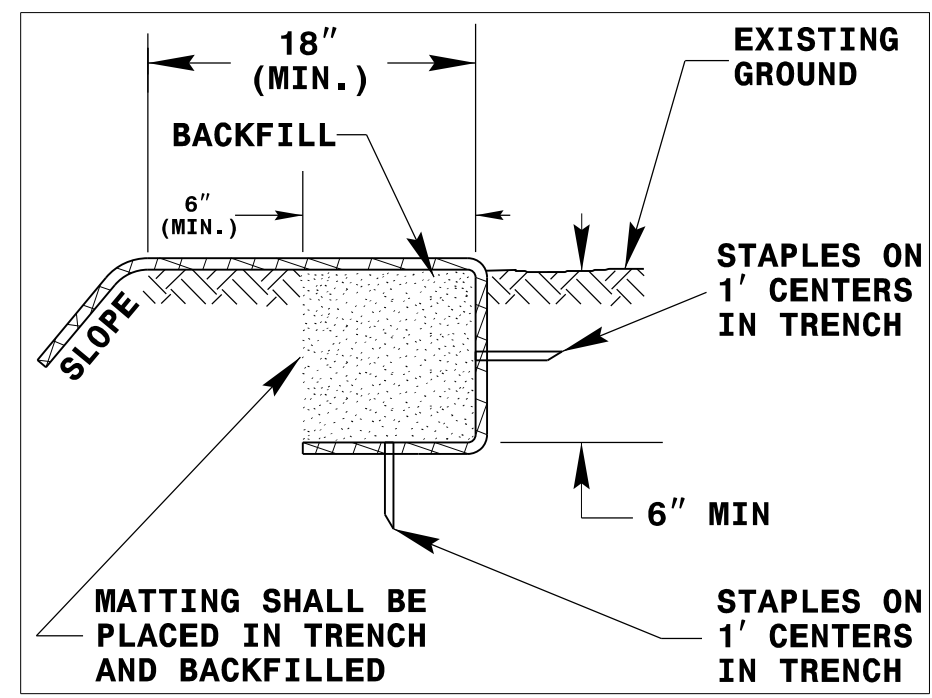
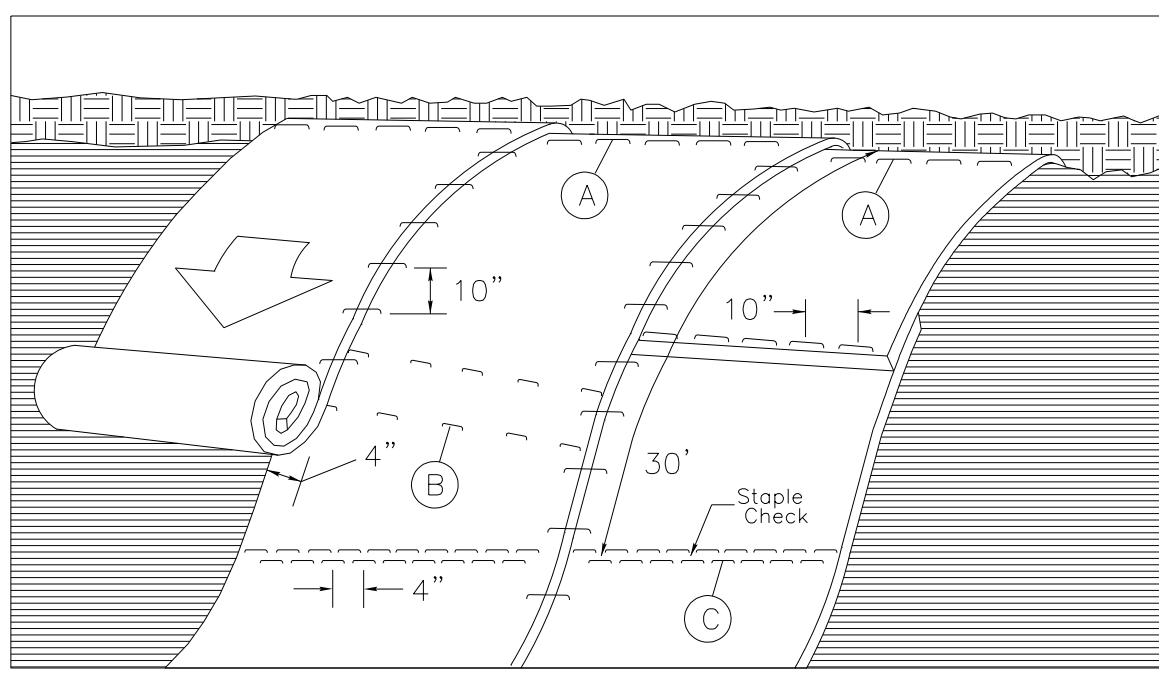


DIAGRAM (A)



MATTING ON SLOPES

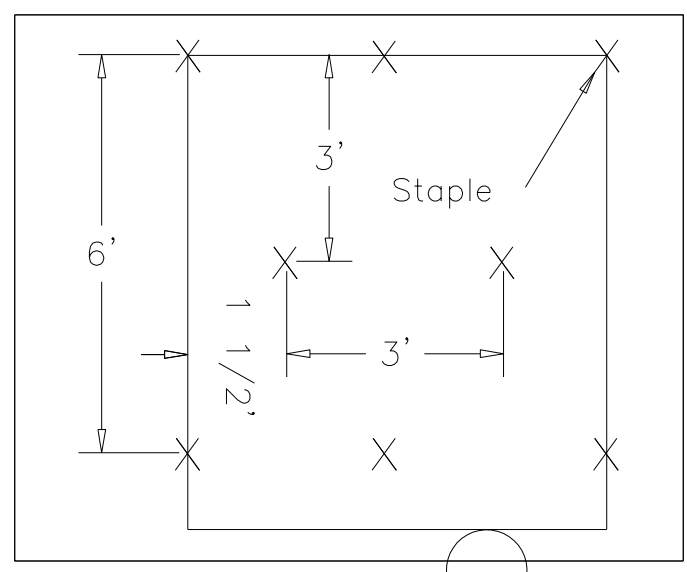


DIAGRAM (B)

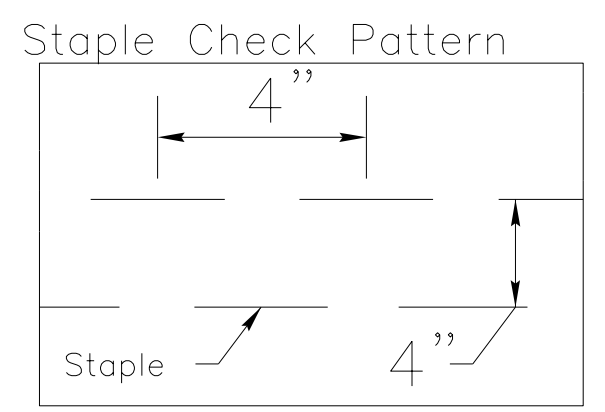


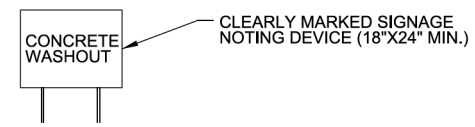
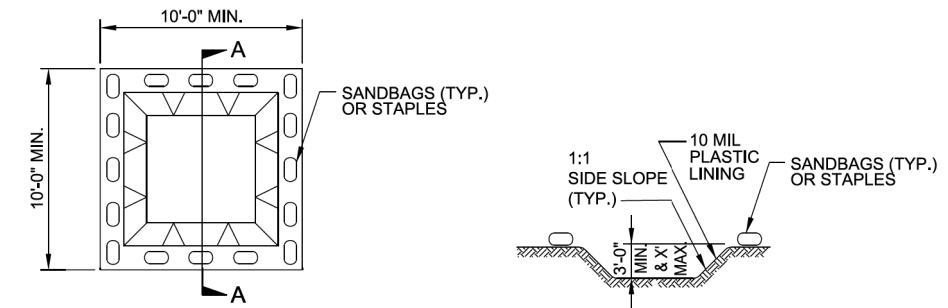
DIAGRAM (C)

NOTES:

THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.
 STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



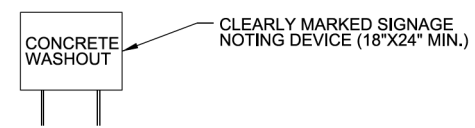
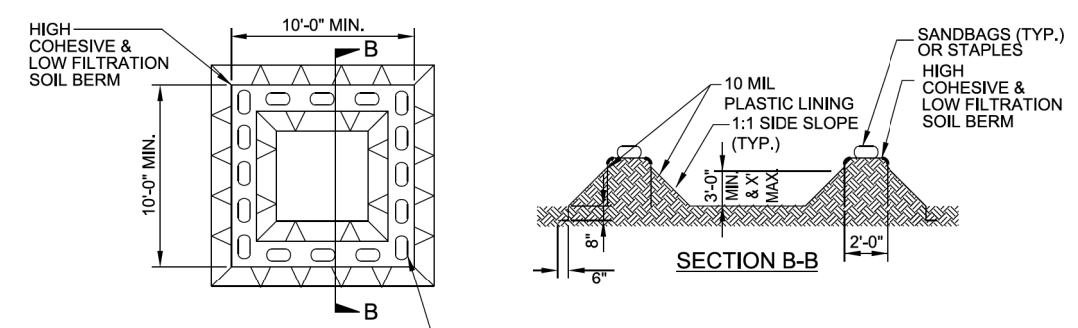
SECTION A-A

- NOTES:**
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

PLAN

BELOW GRADE WASHOUT STRUCTURE

NOT TO SCALE



SECTION B-B

- NOTES:**
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

PLAN

ABOVE GRADE WASHOUT STRUCTURE

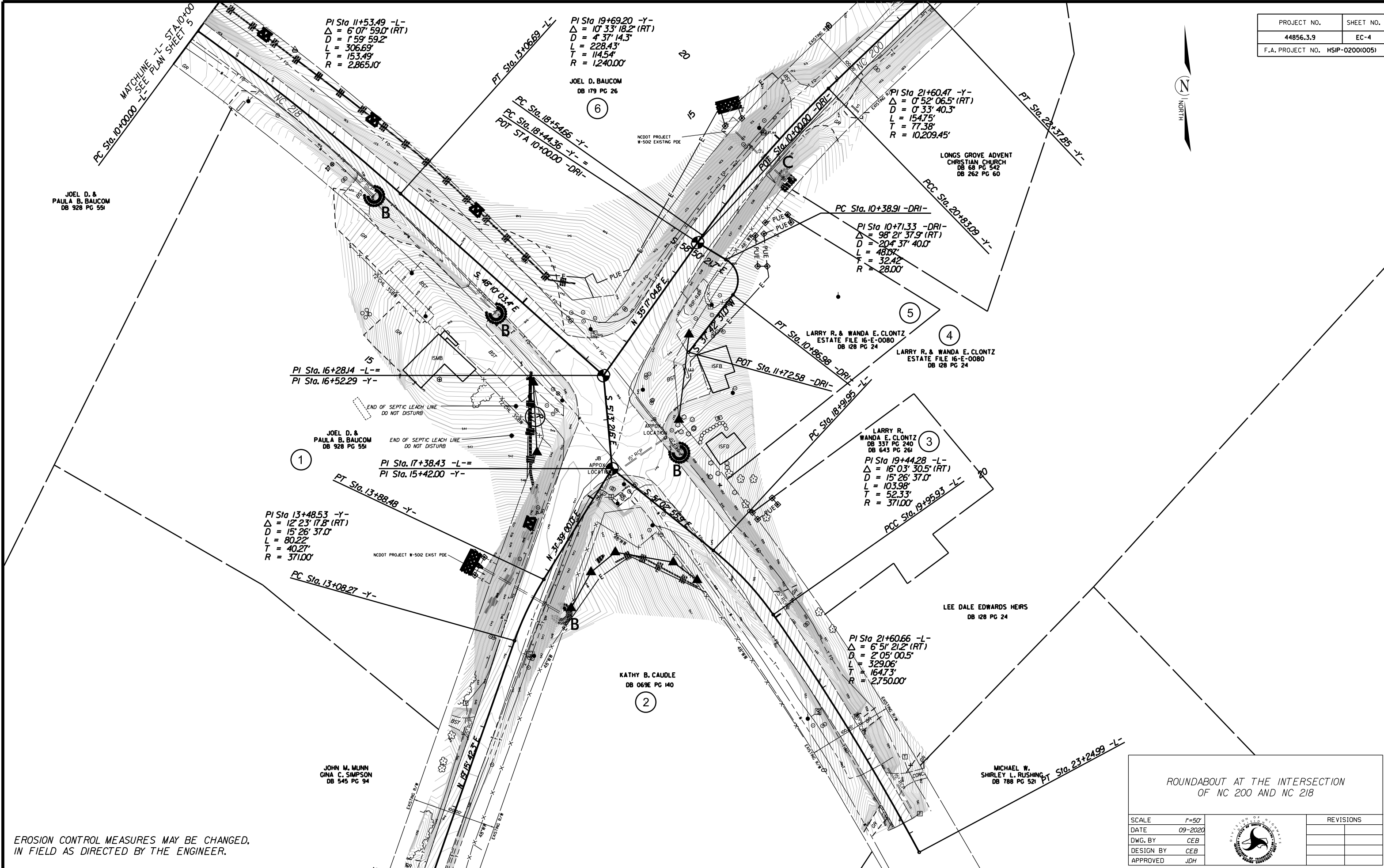
NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

| <i>SITE DESCRIPTION</i> | <i>STABILIZATION TIME</i> | <i>TIMEFRAME EXCEPTIONS</i> |
|--|---------------------------|--|
| PERIMETER DIKES, SWALES, DITCHES AND SLOPES | 7 DAYS | NONE |
| HIGH QUALITY WATER (HOW) ZONES | 7 DAYS | NONE |
| SLOPES STEEPER THAN 3:1 | 7 DAYS | IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED. |
| SLOPES 3:1 OR FLATTER | 14 DAYS | 7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH. |
| ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1 | 14 DAYS | NONE, EXCEPT FOR PERIMETERS AND HOW ZONES. |

| | |
|--------------------------------|-----------|
| PROJECT NO. | SHEET NO. |
| 44856.3.9 | EC-4 |
| F.A. PROJECT NO. HSP-020010051 | |



PI Sta 11+53.49 -L-
 $\Delta = 6' 07' 59.0''$ (RT)
 $D = 1' 59' 59.2''$
 $L = 306.69'$
 $T = 153.49'$
 $R = 2,865.10'$

PI Sta 19+69.20 -Y-
 $\Delta = 10' 33' 18.2''$ (RT)
 $D = 4' 37' 14.3''$
 $L = 228.43'$
 $T = 114.54'$
 $R = 1,240.00'$

PI Sta 21+60.47 -Y-
 $\Delta = 0' 52' 06.5''$ (RT)
 $D = 0' 33' 40.3''$
 $L = 154.75'$
 $T = 77.38'$
 $R = 10,209.45'$

PI Sta 16+28.14 -L-
 PI Sta 16+52.29 -Y-


PI Sta 17+38.43 -L-
 PI Sta 15+42.00 -Y-

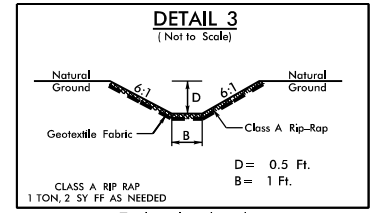
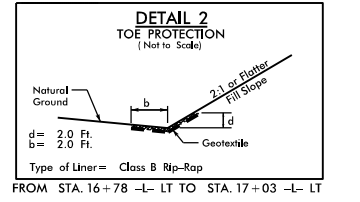
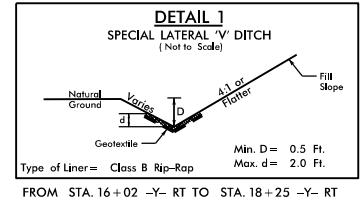
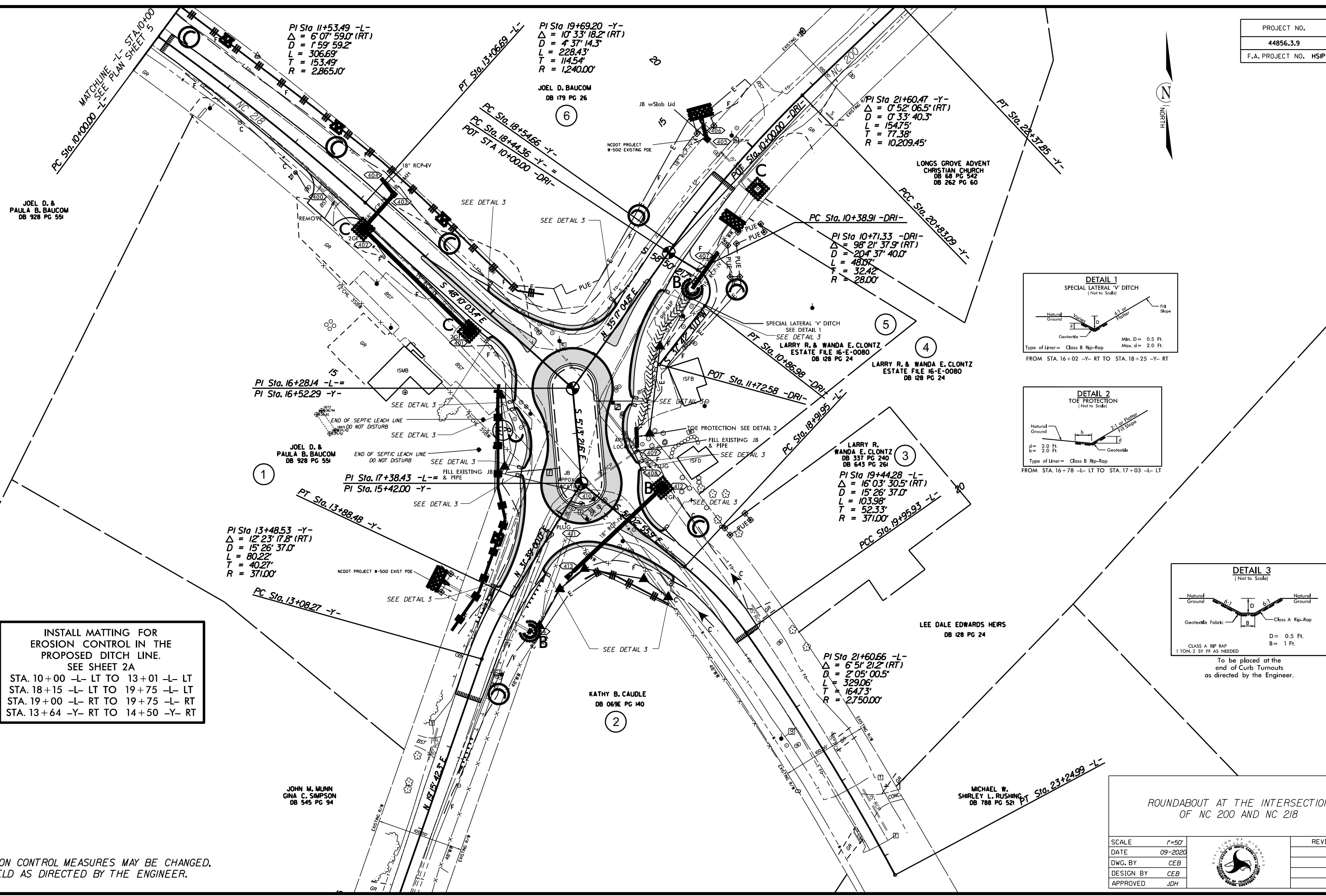
PI Sta 13+48.53 -Y-
 $\Delta = 12' 23' 17.8''$ (RT)
 $D = 15' 26' 37.0''$
 $L = 80.22'$
 $T = 40.27'$
 $R = 371.00'$

PI Sta 21+60.66 -L-
 $\Delta = 6' 51' 21.2''$ (RT)
 $D = 2' 05' 00.5''$
 $L = 329.06'$
 $T = 164.73'$
 $R = 2,750.00'$

EROSION CONTROL MEASURES MAY BE CHANGED,
 IN FIELD AS DIRECTED BY THE ENGINEER.

ROUNDABOUT AT THE INTERSECTION
 OF NC 200 AND NC 218

| | | | |
|-----------|---------|---|-----------|
| SCALE | 1"=50' |  | REVISIONS |
| DATE | 09-2020 | | |
| DWG. BY | CEB | | |
| DESIGN BY | CEB | | |
| APPROVED | JDH | | |



INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE. SEE SHEET 2A

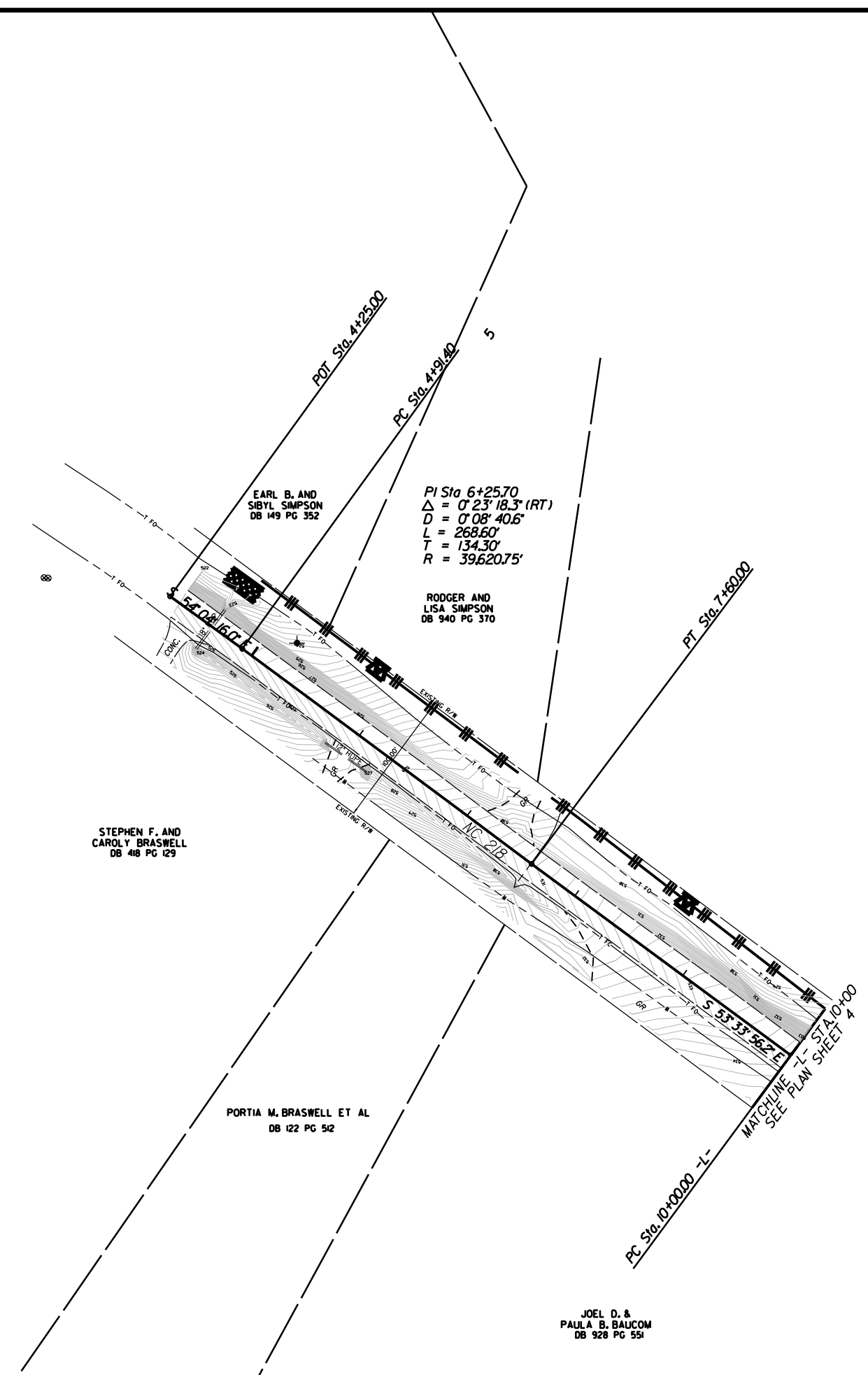
STA. 10+00 -L- LT TO 13+01 -L- LT
STA. 18+15 -L- LT TO 19+75 -L- LT
STA. 19+00 -L- RT TO 19+75 -L- RT
STA. 13+64 -Y- RT TO 14+50 -Y- RT

EROSION CONTROL MEASURES MAY BE CHANGED, IN FIELD AS DIRECTED BY THE ENGINEER.

ROUNDABOUT AT THE INTERSECTION OF NC 200 AND NC 218

| | | | |
|-----------|---------|--|-----------|
| SCALE | 1"=50' | | REVISIONS |
| DATE | 09-2020 | | |
| DWG. BY | CEB | | |
| DESIGN BY | CEB | | |
| APPROVED | JDH | | |

| | |
|--------------------------------|-----------|
| PROJECT NO. | SHEET NO. |
| 44856.3.9 | EC-5 |
| F.A. PROJECT NO. HSP-020010051 | |



STEPHEN F. AND
CAROLY BRASWELL
DB 418 PG 129

PORTIA M. BRASWELL ET AL
DB 122 PG 512

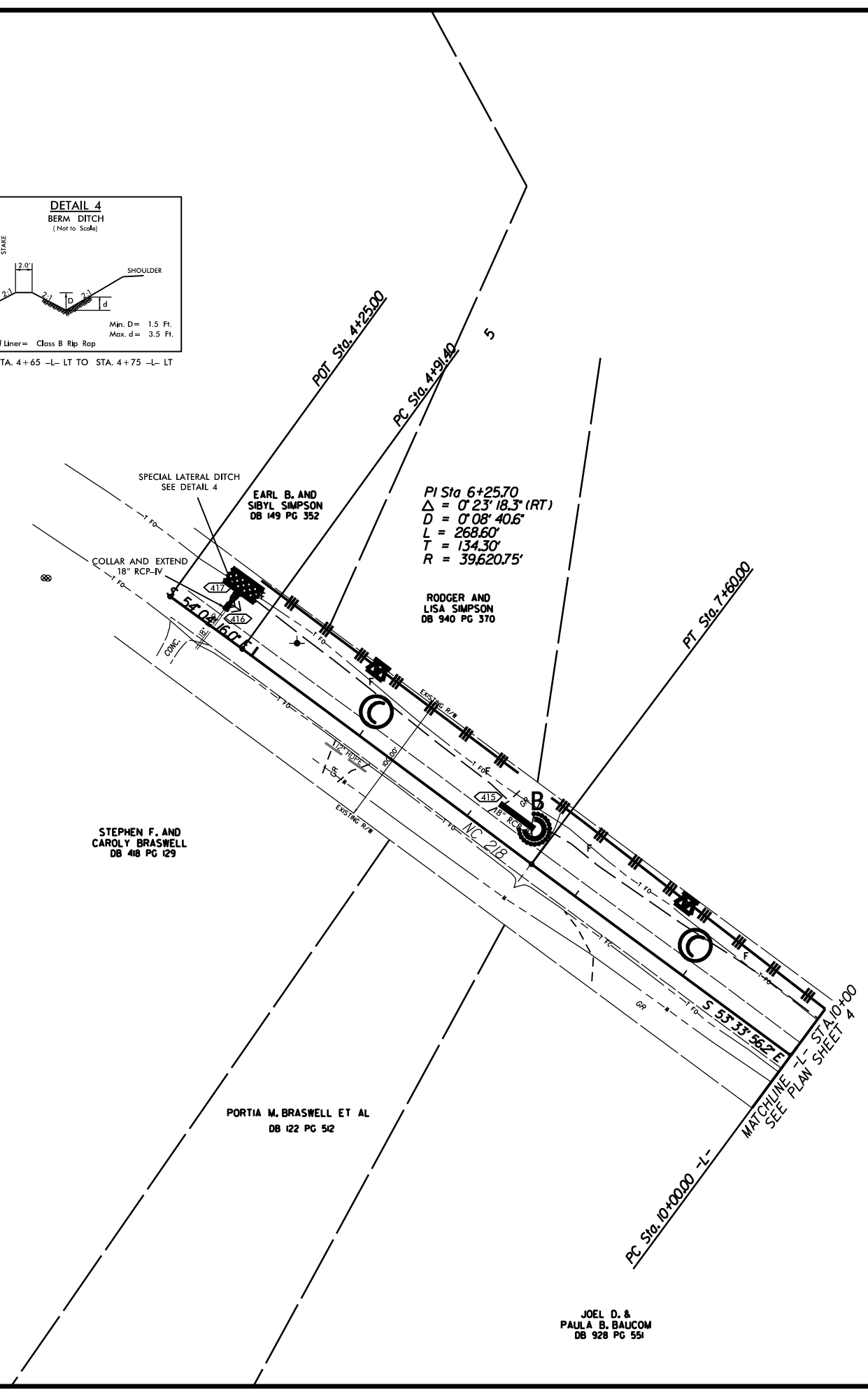
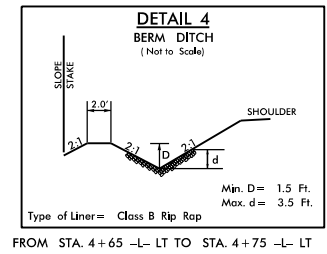
JOEL D. &
PAULA B. BAUCOM
DB 928 PG 551

EROSION CONTROL MEASURES MAY BE CHANGED,
IN FIELD AS DIRECTED BY THE ENGINEER.

ROUNDBOUT AT THE INTERSECTION
OF NC 200 AND NC 218

| | | | |
|-----------|---------|--|-----------|
| SCALE | 1"=50' | | REVISIONS |
| DATE | 02-2020 | | |
| DWG. BY | CEB | | |
| DESIGN BY | CEB | | |
| APPROVED | JDH | | |

| | |
|--------------------------------|-----------|
| PROJECT NO. | SHEET NO. |
| 44856.3.9 | EC-5A |
| F.A. PROJECT NO. HSP-020010051 | |



PI Sta 6+25.70
 $\Delta = 0^\circ 23' 18.3''$ (RT)
 $D = 0' 08' 40.6''$
 $L = 268.60'$
 $T = 134.30'$
 $R = 39,620.75'$

RODGER AND
LISA SIMPSON
DB 940 PG 370

STEPHEN F. AND
CAROLY BRASWELL
DB 418 PG 129

PORTIA M. BRASWELL ET AL
DB 122 PG 512

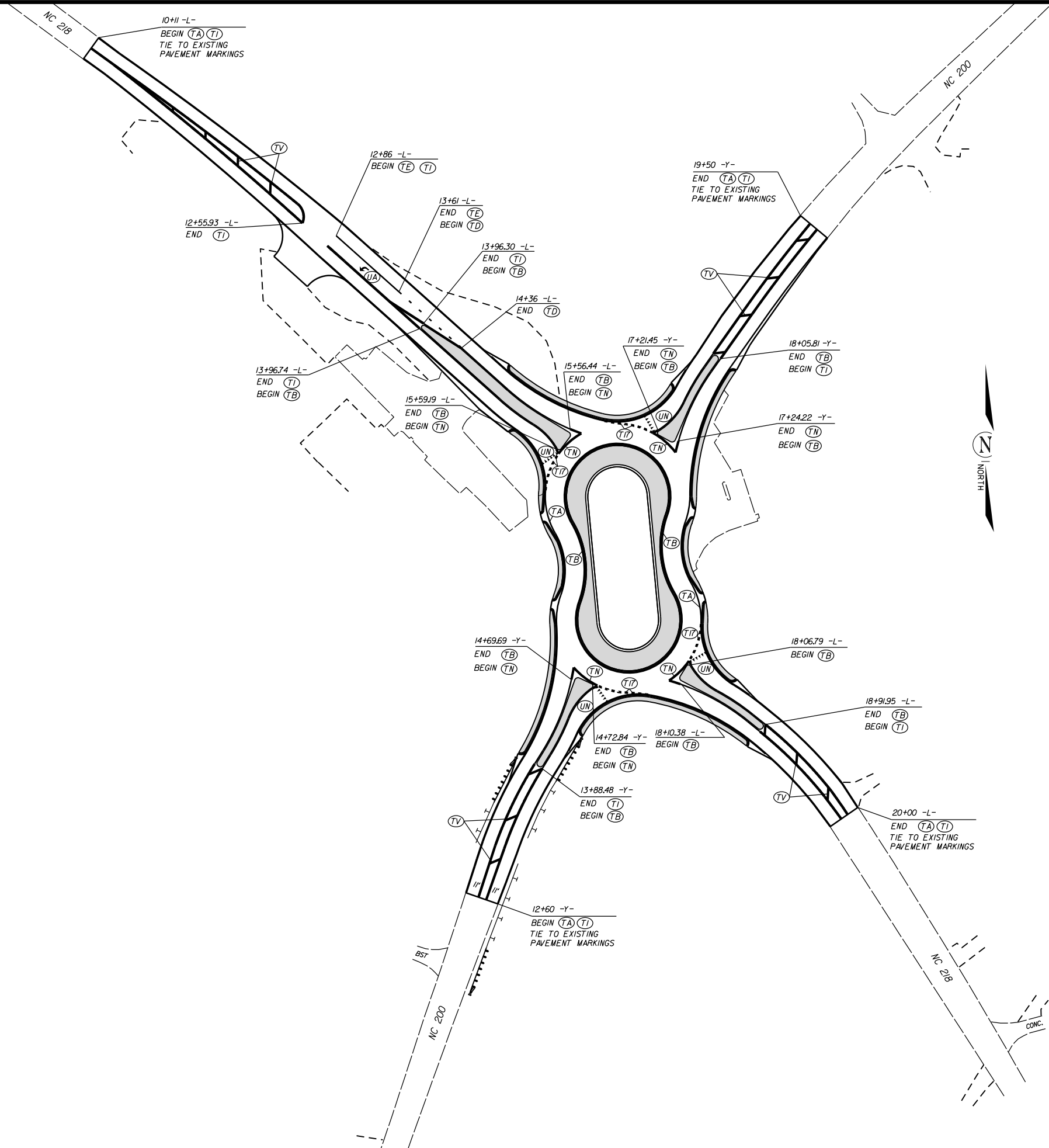
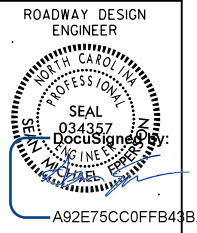
JOEL D. &
PAULA B. BAUCOM
DB 928 PG 551

INSTALL MATTING FOR
EROSION CONTROL IN THE
PROPOSED DITCH LINE.
SEE SHEET 2A
STA. 4+75 -L- LT TO 10+00 -L- LT

EROSION CONTROL MEASURES MAY BE CHANGED,
IN FIELD AS DIRECTED BY THE ENGINEER.

ROUNDBOUT AT THE INTERSECTION
OF NC 200 AND NC 218

| | | | |
|-----------|---------|--|-----------|
| SCALE | 1"=50' | | REVISIONS |
| DATE | 02-2020 | | |
| DWG. BY | CEB | | |
| DESIGN BY | CEB | | |
| APPROVED | JDH | | |



PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

- | | |
|--|---|
| TA - WHITE EDGELINE (4'.90 MIL) | TU - WHITE DIAGONAL (12'.90 MIL) |
| TB - YELLOW EDGELINE (4'.90 MIL) | TV - YELLOW DIAGONAL (12'.90 MIL) |
| TC - 10FT. WHITE SKIP (4'.90 MIL) | TV - WHITE LINE, RR X (16'.90 MIL) |
| TD - 3FT.-9FT./SP WHITE MINISKIP (4'.90 MIL) | T2 - WHITE STOPBAR (24'.90 MIL) |
| TE - WHITE SOLID LANE LINE (4'.90 MIL) | T3 - WHITE CROSSWALK LINE (24'.90 MIL) |
| TF - 10FT. YELLOW SKIP (4'.90 MIL) | T4 - WHITE RUMBLE STRIP (4'.240 MIL) |
| TH - YELLOW SINGLE CENTER (4'.90 MIL) | T5 - YELLOW RUMBLE STRIP (4'.240 MIL) |
| TI - YELLOW DOUBLE CENTER (4'.90 MIL) | T6 - WHITE EDGELINE (6'.90 MIL) |
| TJ - 10FT. WHITE SKIP (6'.90 MIL) | T7 - YELLOW EDGELINE (6'.90 MIL) |
| TK - 3FT.-9FT./SP WHITE MINISKIP (6'.90 MIL) | T8 - 2FT.-6FT./SP WHITE MINISKIP (4'.90 MIL) |
| TL - WHITE SOLID LANE LINE (6'.90 MIL) | T9 - 2FT.-6FT./SP YELLOW MINISKIP (4'.90 MIL) |
| TM - 10FT. YELLOW SKIP (6'.90 MIL) | T10 - 3FT.-3FT./SP WHITE MINISKIP (12'.90 MIL) |
| TN - WHITE GORELINE (8'.90 MIL) | T11 - 2FT.-6FT./SP WHITE MINISKIP (6'.90 MIL) |
| TO - WHITE DIAGONAL (8'.90 MIL) | T12 - 2FT.-6FT./SP YELLOW MINISKIP (6'.90 MIL) |
| TP - YELLOW DIAGONAL (8'.90 MIL) | T13 - 3FT.-9FT./SP WHITE MINISKIP (8'.90 MIL) |
| TQ - WHITE CROSSWALK LINE (8'.90 MIL) | T14 - 3FT.-9FT./SP WHITE MINISKIP (12'.90 MIL) |
| TR - WHITE SOLID LANE LINE (8'.90 MIL) | T15 - YELLOW SINGLE CENTER (6'.90 MIL) |
| TS - WHITE GORELINE (12'.90 MIL) | T16 - YELLOW DOUBLE CENTER (6'.90 MIL) |
| TT - WHITE SOLID LANE LINE (12'.90 MIL) | T17 - 3FT.-3FT./SP WHITE MINISKIP ENTRANCE LINE (8'.90 MIL) |

PAVEMENT MARKING SYMBOLS

- | | |
|--|--|
| UA - LEFT TURN ARROW (90 MIL) | UU - FISH-HOOK STRAIGHT ARROW (90 MIL) |
| UB - RIGHT TURN ARROW (90 MIL) | UV - FISH-HOOK LEFT/STRAIGHT ARROW (90 MIL) |
| UC - STRAIGHT ARROW (90 MIL) | UW - FISH-HOOK RIGHT/STRAIGHT ARROW (90 MIL) |
| UD - COMBO. LEFT/STRAIGHT ARROW (90 MIL) | UX - FISH-HOOK LEFT/RIGHT ARROW (90 MIL) |
| UE - COMBO. RIGHT/STRAIGHT ARROW (90 MIL) | UY - FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW (90 MIL) |
| UF - COMBO. LEFT/RIGHT ARROW (90 MIL) | UZ - FISH-HOOK W/CIRCLE STRAIGHT ARROW (90 MIL) |
| UG - COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL) | |
| UH - HANDICAP PARKING (90 MIL) | WA - FISH-HOOK W/CIRCLE LEFT ARROW (90 MIL) |
| UI - ALPHANUMERIC CHAR. (90 MIL) | WB - FISH-HOOK W/CIRCLE LEFT/STRAIGHT ARROW (90 MIL) |
| UJ - BICYCLE SYMBOL (90 MIL) | WC - FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW (90 MIL) |
| UK - BICYCLE STRAIGHT ARROW (90 MIL) | |
| UL - BICYCLE CHAR. (90 MIL) | MA - PERMANENT RAISED MARKER (YELLOW & YELLOW) |
| UM - 12" YIELD LINE TRIANGLE (90 MIL) | MB - PERMANENT RAISED MARKER (CRYSTAL & RED) |
| UN - 24" YIELD LINE TRIANGLE (90 MIL) | MC - PERMANENT RAISED MARKER (YELLOW & RED) |
| UO - BICYCLE LEFT ARROW (90 MIL) | MD - PERMANENT RAISED MARKER (YELLOW) |
| UP - MERGE ARROW (90 MIL) | ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW) |
| UQ - RAMP ARROW SYMBOL (90 MIL) | MF - SNOWPLOWABLE MARKER (CRYSTAL & RED) |
| UR - SHARROW (90 MIL) | MG - SNOWPLOWABLE MARKER (YELLOW & RED) |
| US - BICYCLE LOOP DETECTOR (90 MIL) | ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL) |
| UT - U-TURN ARROW (90 MIL) | MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL) |

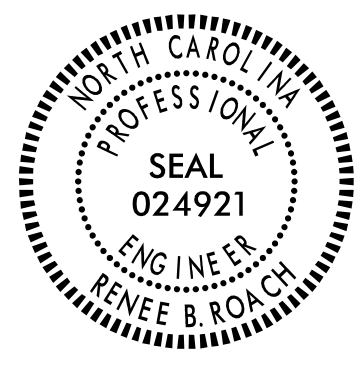
ROUNDBOUT AT THE INTERSECTION OF NC 200 AND NC 218

| | | | |
|-----------|---------|--|-----------|
| SCALE | 1"=50' | | REVISIONS |
| DATE | 03-2022 | | |
| DWG. BY | CEB | | |
| DESIGN BY | JDH | | |
| APPROVED | JDH | | |

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

**SIGNING PLAN
UNION COUNTY**

LOCATION: INTERSECTION OF NC 200 AND NC 218

| | |
|---|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| W-57101 | SIGN-1 |
| APPROVED: <u>Renée B. Roach</u> | |
| DATE: 06/22/2022 | |
| SEAL | |
|  | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

| <u>STD. NO.</u> | <u>TITLE</u> |
|-----------------|--|
| 904.10 | ORIENTATION OF GROUND MOUNTED SIGNS |
| 904.50 | MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS |

GENERAL NOTES

- . SIGNS FURNISHED BY STATE
- . CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ACTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.
- . ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

SUMMARY OF QUANTITIES

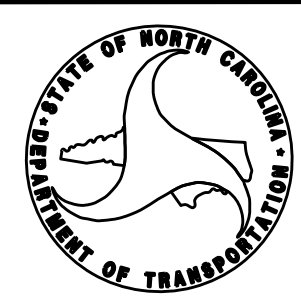
| ITEM NO. | | ITEM DESCRIPTION | QUANTITY | UNIT |
|------------|-----------|--|----------|------|
| DESC. NO. | SECT. NO. | | | |
| 4072000000 | 903 | SUPPORTS, 3 LB STEEL U-CHANNEL | 874 | L.F. |
| 4096000000 | 904 | SIGN ERECTION, TYPE D | 8 | EA. |
| 4102000000 | 904 | SIGN ERECTION, TYPE E | 20 | EA. |
| 4108000000 | 904 | SIGN ERECTION, TYPE F | 12 | EA. |
| 4155000000 | 907 | DISPOSAL OF SIGN SYSTEM, U-CHANNEL | 18 | EA. |
| 4192000000 | 907 | DISPOSAL OF SUPPORT, U-CHANNEL | 1 | EA. |
| 4116100000 | 904 | SIGN ERECTION, RELOCATE SIGN TYPE D (GROUND MOUNTED) | 1 | EA. |

INDEX

| SHEET NO. | DESCRIPTION |
|-----------|---------------------|
| SIGN-1 | TITLE SHEET |
| SIGN-2 | E AND F SHEETS |
| SIGN-3-3A | SIGN DESIGNS |
| SIGN-4-4A | SIGNING PLAN SHEETS |

PLAN PREPARED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

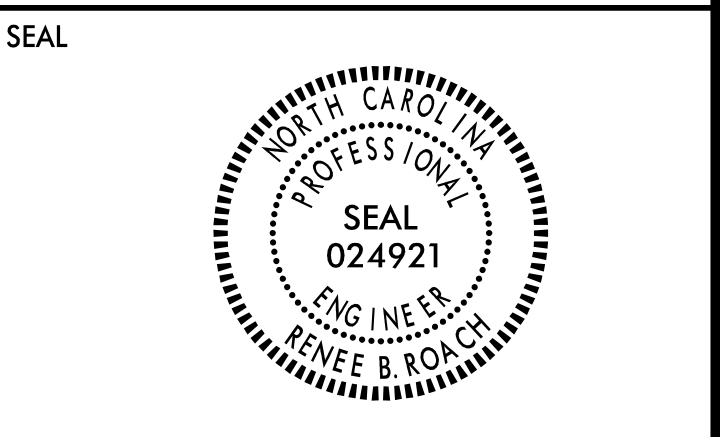
KELVIN JORDAN SIGNING & DELINEATION REGIONAL ENGINEER
WALTER JOHNSON SIGNING & DELINEATION PROJECT DESIGN ENGINEER



T.I.P.: W-57101

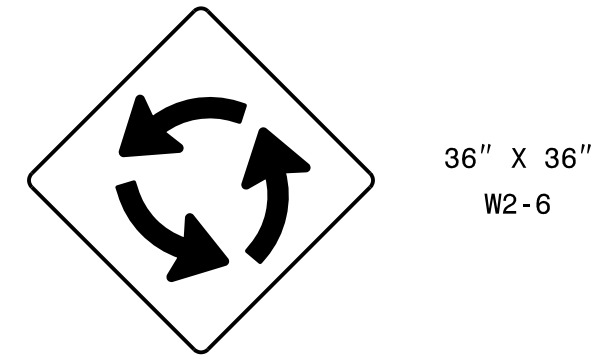
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\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$SYTIME\$\$\$\$\$

APPROVED: Renee B. Roach
DATE: 06/22/2022



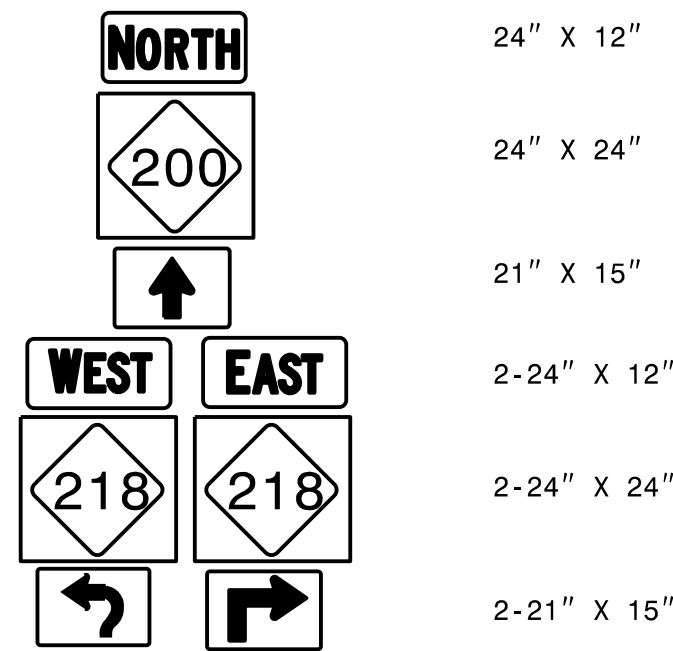
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

401 QUANTITY REQ'D .4_



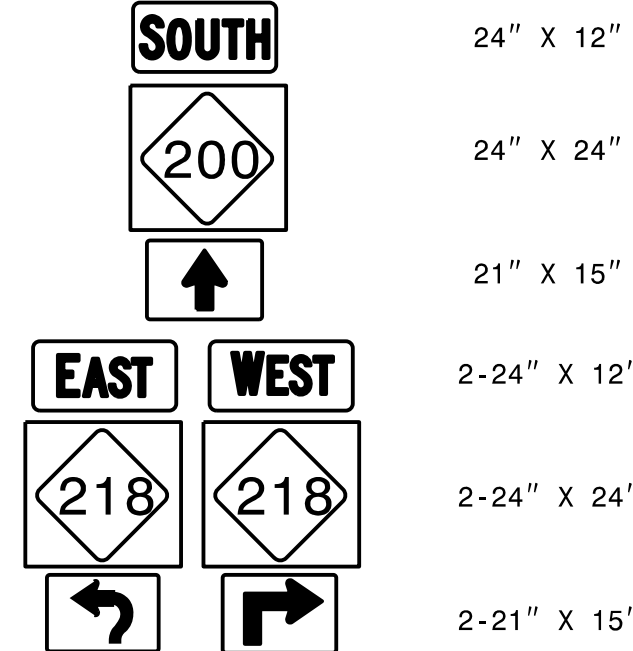
ONE "U" POST PER SIGN

502



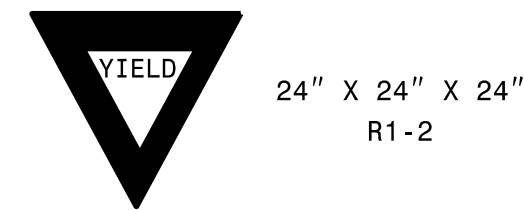
TWO "U" POSTS PER SIGN

508



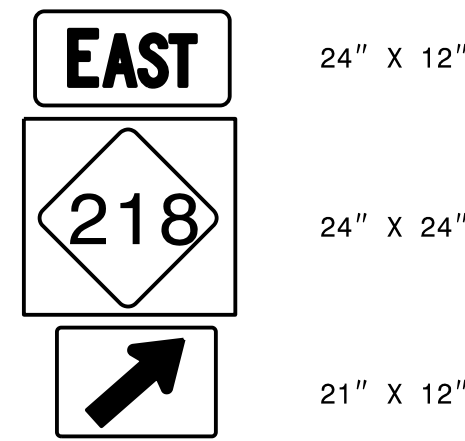
TWO "U" POSTS PER SIGN

402 QUANTITY REQ'D .8_



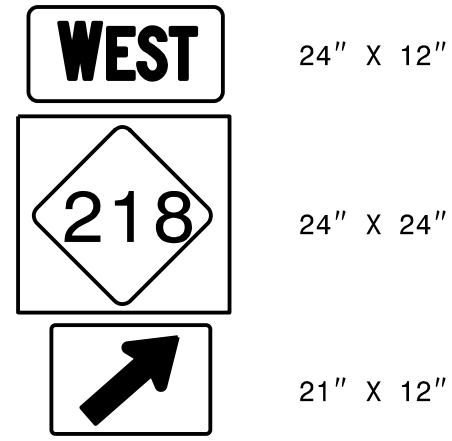
ONE "U" POST PER SIGN

503



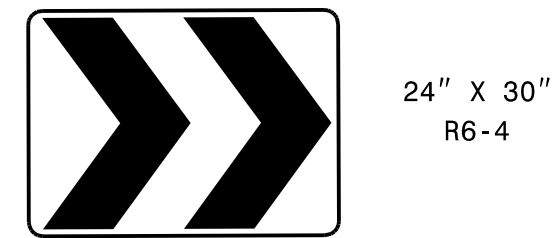
MOUNTED BELOW 305
IN 1 INSTALLATION

509



MOUNTED BELOW 307
IN 1 INSTALLATION

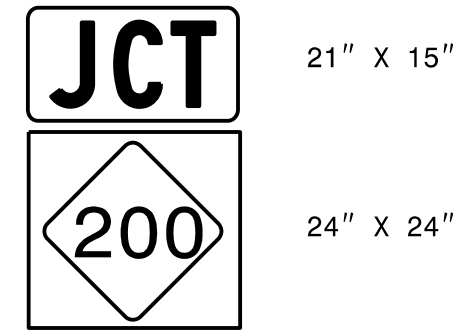
403 QUANTITY REQ'D .4_



ONE "U" POSTS PER SIGN

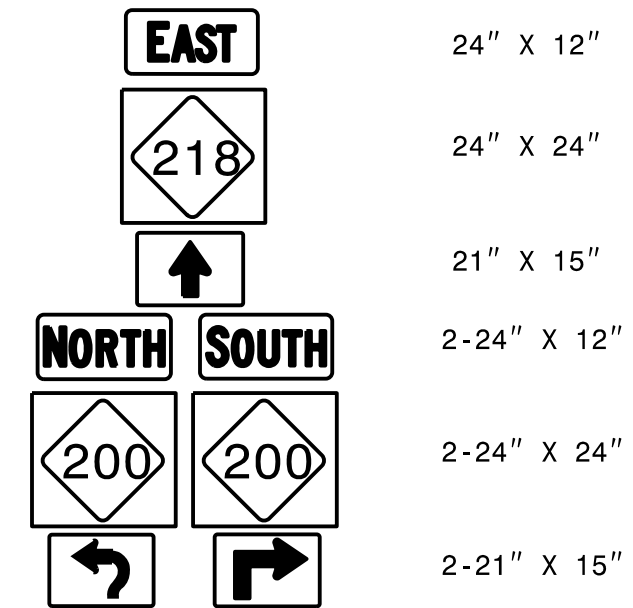
504

510



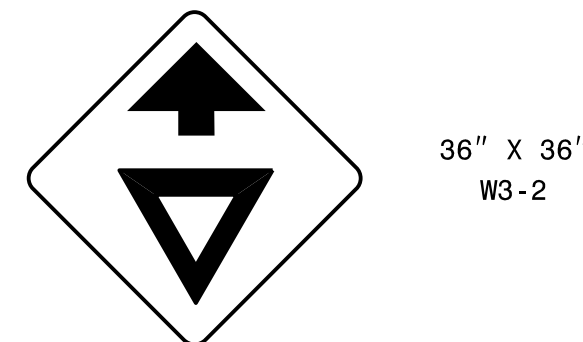
ONE "U" POST PER SIGN

511



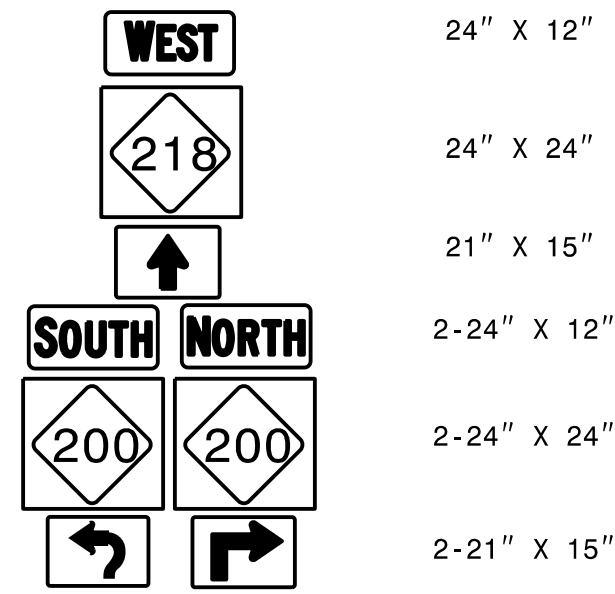
TWO "U" POSTS PER SIGN

404 QUANTITY REQ'D .4_



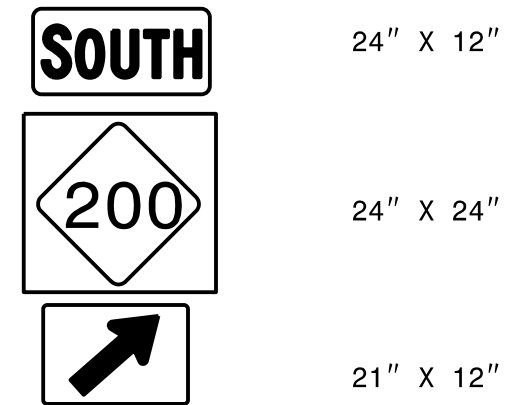
ONE "U" POST PER SIGN

505



TWO "U" POSTS PER SIGN

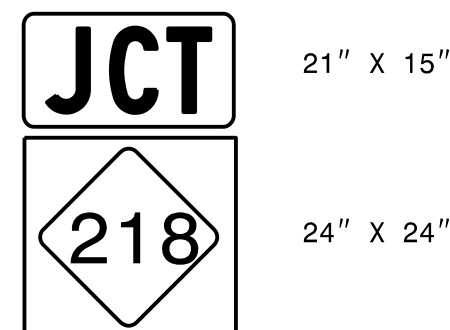
512



MOUNTED BELOW 308
IN 1 INSTALLATION

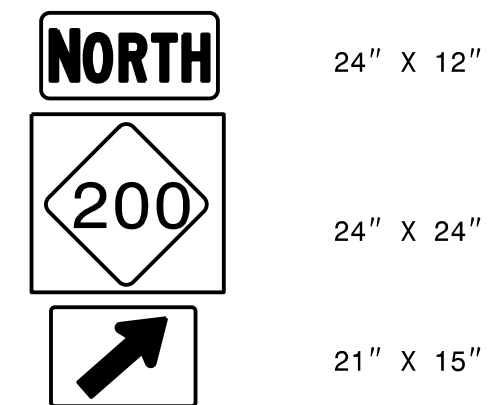
501

507



ONE "U" POST PER SIGN

506



MOUNTED BELOW 306
IN 1 INSTALLATION

TYPE "E" & "F" SIGNS

SYSTEMS
DESIGN
INC.

SIGN NUMBER: 301 BACKG COLOR: Green/Green/Green
 TYPE: D COPY COLOR: White DESIGN BY: W. Johnson CHECKED BY: KLJ Aug 12, 2020
 PROJECT ID: W-5710I LOCATION: INTERSECTION OF NC 200 AND NC 218 DIV: 10

| SYMBOL | X | Y | WID | HT |
|------------|------|------|-----|------|
| AR_Type D | 5.3 | 30.1 | 6 | 9 |
| AR_FISHOOK | 5.3 | 14.1 | 9.9 | 10.8 |
| AR_Type D | 56.2 | 2.9 | 6 | 9 |

QUANTITY: 1
 SIGN WIDTH: 6'-0"
 HEIGHT: 3'-6"
 TOTAL AREA: 21.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 2.25"
 NO. Z BARS:
 LENGTH:

USE NOTES:
 1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
 2. Background shall be Grade C reflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

| Letter spacings are to start of next letter | | | | | | | | | | | Series/Size |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------------|
| | | | | | | | | | | | Text Length |
| L | o | c | u | s | t | | | | | | D 2000 |
| 17.3 | 4.3 | 4.4 | 4.3 | 4.4 | 3.1 | 2.4 | 3.2 | | | | 22.7 |
| M | i | n | t | H | i | l | l | | | | D 2000 |
| 21.2 | 6 | 2.2 | 4.1 | 2.4 | 6 | 5.4 | 2.2 | 2.2 | 1 | 19.5 | 31.4 |
| N | e | w | S | a | l | e | m | | | | D 2000 |
| 6.8 | 5.2 | 3.9 | 6.8 | 6 | 4.7 | 4.6 | 1.9 | 4.4 | 5.9 | 21.8 | 43.3 |

FILENAME: Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 302 BACKG COLOR: Green/Green/Green
 TYPE: D COPY COLOR: White DESIGN BY: W. Johnson CHECKED BY: KLJ Aug 12, 2020
 PROJECT ID: W-5710I LOCATION: INTERSECTION OF NC 200 AND NC 218 DIV: 10

| SYMBOL | X | Y | WID | HT |
|------------|------|------|-----|------|
| AR_Type D | 5.3 | 30.1 | 6 | 9 |
| AR_FISHOOK | 6.2 | 14.1 | 9.9 | 10.8 |
| AR_Type D | 36.9 | 3 | 6 | 9 |

QUANTITY: 1
 SIGN WIDTH: 4'-6"
 HEIGHT: 3'-6"
 TOTAL AREA: 15.8 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 2.25"
 NO. Z BARS:
 LENGTH:

USE NOTES:
 1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
 2. Background shall be Grade C reflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

| Letter spacings are to start of next letter | | | | | | | | | | | Series/Size |
|---|-----|-----|-----|-----|-----|-----|------|-----|---|-----|-------------|
| | | | | | | | | | | | Text Length |
| M | i | n | t | H | i | l | l | | | | D 2000 |
| 17.3 | 6 | 2.2 | 4.1 | 2.4 | 6 | 5.4 | 2.2 | 2.2 | 1 | 5.3 | 31.4 |
| M | o | n | r | o | e | | | | | | D 2000 |
| 22.1 | 5.8 | 4.6 | 4.7 | 2.8 | 4.4 | 3.5 | 6.2 | | | | 25.7 |
| L | o | c | u | s | t | | | | | | D 2000 |
| 8.1 | 4.3 | 4.4 | 4.3 | 4.4 | 3.1 | 2.4 | 23.1 | | | | 22.7 |

FILENAME: Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 303 BACKG COLOR: Green/Green/Green
 TYPE: D COPY COLOR: White DESIGN BY: W. Johnson CHECKED BY: KLJ Aug 12, 2020
 PROJECT ID: W-5710I LOCATION: INTERSECTION OF NC 200 AND NC 218 DIV: 10

| SYMBOL | X | Y | WID | HT |
|------------|------|------|-----|------|
| AR_Type D | 6.4 | 30.1 | 6 | 9 |
| AR_FISHOOK | 6.4 | 14.1 | 9.9 | 10.8 |
| AR_Type D | 50.2 | 3 | 6 | 9 |

QUANTITY: 1
 SIGN WIDTH: 6'-0"
 HEIGHT: 3'-6"
 TOTAL AREA: 21.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 2.25"
 NO. Z BARS:
 LENGTH:

USE NOTES:
 1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
 2. Background shall be Grade C reflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

| Letter spacings are to start of next letter | | | | | | | | | | | Series/Size |
|---|-----|-----|-----|-----|-----|-----|------|-----|-----|------|-------------|
| | | | | | | | | | | | Text Length |
| M | o | n | r | o | e | | | | | | D 2000 |
| 18.4 | 5.8 | 4.6 | 4.7 | 2.8 | 4.4 | 3.5 | 27.9 | | | | 25.7 |
| N | e | w | S | a | l | e | m | | | | D 2000 |
| 22.3 | 5.2 | 3.9 | 6.8 | 6 | 4.7 | 4.6 | 1.9 | 4.4 | 5.9 | 6.4 | 43.3 |
| M | i | n | t | H | i | l | l | | | | D 2000 |
| 12.8 | 6 | 2.2 | 4.1 | 2.4 | 6 | 5.4 | 2.2 | 2.2 | 1 | 27.8 | 31.4 |

FILENAME: Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 304 BACKG COLOR: Green/Green/Green
 TYPE: D COPY COLOR: White DESIGN BY: W. Johnson CHECKED BY: KLJ Aug 12, 2020
 PROJECT ID: W-5710I LOCATION: INTERSECTION OF NC 200 AND NC 218 DIV: 10

| SYMBOL | X | Y | WID | HT |
|------------|------|------|-----|------|
| AR_Type D | 8.3 | 29.3 | 6 | 9 |
| AR_FISHOOK | 6.4 | 14.1 | 9.9 | 10.8 |
| AR_Type D | 47.4 | 3 | 6 | 9 |

QUANTITY: 1
 SIGN WIDTH: 6'-0"
 HEIGHT: 3'-6"
 TOTAL AREA: 21.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 2.25"
 NO. Z BARS:
 LENGTH:

USE NOTES:
 1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
 2. Background shall be Grade C reflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

| Letter spacings are to start of next letter | | | | | | | | | | | Series/Size |
|---|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-------------|
| | | | | | | | | | | | Text Length |
| N | e | w | S | a | l | e | m | | | | D 2000 |
| 20.3 | 5.2 | 3.9 | 6.8 | 6 | 4.7 | 4.6 | 1.9 | 4.4 | 5.9 | 8.3 | 43.3 |
| L | o | c | u | s | t | | | | | | D 2000 |
| 22.3 | 4.3 | 4.4 | 4.3 | 4.4 | 3.1 | 2.4 | 27 | | | | 22.7 |
| M | o | n | r | o | e | | | | | | D 2000 |
| 15.6 | 5.8 | 4.6 | 4.7 | 2.8 | 4.4 | 3.5 | 30.6 | | | | 25.7 |

FILENAME: Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

\$\$\$\$\$\$SYTIME\$\$\$\$\$
 \$\$\$\$\$\$SUBSERIAL\$\$\$\$\$
 \$\$\$\$\$\$DATE\$\$\$\$\$
 \$\$\$\$\$\$TIME\$\$\$\$\$
 \$\$\$\$\$\$BY\$\$\$\$\$
 \$\$\$\$\$\$CITY\$\$\$\$\$
 \$\$\$\$\$\$STATE\$\$\$\$\$
 \$\$\$\$\$\$ZIP\$\$\$\$\$
 \$\$\$\$\$\$COUNTRY\$\$\$\$\$
 \$\$\$\$\$\$PHONE\$\$\$\$\$
 \$\$\$\$\$\$FAX\$\$\$\$\$
 \$\$\$\$\$\$EMAIL\$\$\$\$\$
 \$\$\$\$\$\$WEBSITE\$\$\$\$\$
 \$\$\$\$\$\$ADDRESS\$\$\$\$\$
 \$\$\$\$\$\$CITY\$\$\$\$\$
 \$\$\$\$\$\$STATE\$\$\$\$\$
 \$\$\$\$\$\$ZIP\$\$\$\$\$
 \$\$\$\$\$\$COUNTRY\$\$\$\$\$
 \$\$\$\$\$\$PHONE\$\$\$\$\$
 \$\$\$\$\$\$FAX\$\$\$\$\$
 \$\$\$\$\$\$EMAIL\$\$\$\$\$
 \$\$\$\$\$\$WEBSITE\$\$\$\$\$

| <p>SIGN NUMBER: 305 TYPE: D QUANTITY: 1 SIGN WIDTH: 5'-6" HEIGHT: 1'-6" TOTAL AREA: 8.3 Sq.Ft.</p> <p>BORDER TYPE: FLUSH RECESS: 0" WIDTH: 1" RADIUS: 3"</p> <p>NO. Z BARS: LENGTH:</p> | <p>BACKG COLOR: Green COPY COLOR: White</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> </thead> <tbody> <tr> <td>AR_Type D</td> <td>54.1</td> <td>5.4</td> <td>6</td> <td>9</td> </tr> </tbody> </table> | SYMBOL | X | Y | WID | HT | AR_Type D | 54.1 | 5.4 | 6 | 9 | <p>DESIGN BY: W. Johnson PROJECT ID: W-57101</p> <p>CHECKED BY: KLJ LOCATION: INTERSECTION OF NC 200 AND NC 218</p> <p>Jun 02, 2022 DIV: 10</p> |
|---|--|--------|-----|----|-----|----|-----------|------|-----|---|---|---|
| SYMBOL | X | Y | WID | HT | | | | | | | | |
| AR_Type D | 54.1 | 5.4 | 6 | 9 | | | | | | | | |

BORDER R=3" TH=1"

Spacing Factor is 1 unless specified otherwise

| Letter spacings are to start of next letter | | | | | | | | | | | | Series/Size |
|---|-----|-----|-----|---|-----|-----|-----|-----|-----|------|--|-------------|
| | | | | | | | | | | | | Text Length |
| N | e | w | S | a | i | e | m | | | | | D 2000 |
| 4.8 | 5.2 | 3.9 | 6.8 | 6 | 4.7 | 4.6 | 1.9 | 4.4 | 5.9 | 17.9 | | 43.3 |

Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

| <p>SIGN NUMBER: 306 TYPE: D QUANTITY: 1 SIGN WIDTH: 4'-0" HEIGHT: 1'-6" TOTAL AREA: 6.0 Sq.Ft.</p> <p>BORDER TYPE: FLUSH RECESS: 0" WIDTH: 1" RADIUS: 3"</p> <p>NO. Z BARS: LENGTH:</p> | <p>BACKG COLOR: Green COPY COLOR: White</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> </thead> <tbody> <tr> <td>AR_Type D</td> <td>34.8</td> <td>5.4</td> <td>6</td> <td>9</td> </tr> </tbody> </table> | SYMBOL | X | Y | WID | HT | AR_Type D | 34.8 | 5.4 | 6 | 9 | <p>DESIGN BY: W. Johnson PROJECT ID: W-57101</p> <p>CHECKED BY: KLJ LOCATION: INTERSECTION OF NC 200 AND NC 218</p> <p>Jun 02, 2022 DIV: 10</p> |
|---|--|--------|-----|----|-----|----|-----------|------|-----|---|---|---|
| SYMBOL | X | Y | WID | HT | | | | | | | | |
| AR_Type D | 34.8 | 5.4 | 6 | 9 | | | | | | | | |

BORDER R=3" TH=1"

Spacing Factor is 1 unless specified otherwise

| Letter spacings are to start of next letter | | | | | | | | | | | | Series/Size |
|---|-----|-----|-----|-----|-----|-----|------|--|--|--|--------|-------------|
| | | | | | | | | | | | | Text Length |
| L | o | c | u | s | t | | | | | | D 2000 | |
| 6.1 | 4.3 | 4.4 | 4.3 | 4.4 | 3.1 | 2.4 | 19.2 | | | | | 22.7 |

Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

| <p>SIGN NUMBER: 307 TYPE: D QUANTITY: 1 SIGN WIDTH: 4'-6" HEIGHT: 1'-6" TOTAL AREA: 6.8 Sq.Ft.</p> <p>BORDER TYPE: FLUSH RECESS: 0" WIDTH: 1" RADIUS: 3"</p> <p>NO. Z BARS: LENGTH:</p> | <p>BACKG COLOR: Green COPY COLOR: White</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> </thead> <tbody> <tr> <td>AR_Type D</td> <td>42.1</td> <td>5.4</td> <td>6</td> <td>9</td> </tr> </tbody> </table> | SYMBOL | X | Y | WID | HT | AR_Type D | 42.1 | 5.4 | 6 | 9 | <p>DESIGN BY: W. Johnson PROJECT ID: W-57101</p> <p>CHECKED BY: KLJ LOCATION: INTERSECTION OF NC 200 AND NC 218</p> <p>Jun 02, 2022 DIV: 10</p> |
|---|--|--------|-----|----|-----|----|-----------|------|-----|---|---|---|
| SYMBOL | X | Y | WID | HT | | | | | | | | |
| AR_Type D | 42.1 | 5.4 | 6 | 9 | | | | | | | | |

BORDER R=3" TH=1"

Spacing Factor is 1 unless specified otherwise

| Letter spacings are to start of next letter | | | | | | | | | | | | Series/Size |
|---|---|-----|-----|-----|---|-----|-----|-----|---|------|--|-------------|
| | | | | | | | | | | | | Text Length |
| M | i | n | t | H | i | l | l | | | | | D 2000 |
| 4.7 | 6 | 2.2 | 4.1 | 2.4 | 6 | 5.4 | 2.2 | 2.2 | 1 | 17.9 | | 31.4 |

Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

| <p>SIGN NUMBER: 308 TYPE: D QUANTITY: 1 SIGN WIDTH: 4'-0" HEIGHT: 1'-6" TOTAL AREA: 6.0 Sq.Ft.</p> <p>BORDER TYPE: FLUSH RECESS: 0" WIDTH: 1" RADIUS: 3"</p> <p>NO. Z BARS: LENGTH:</p> | <p>BACKG COLOR: Green COPY COLOR: White</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> </thead> <tbody> <tr> <td>AR_Type D</td> <td>36.3</td> <td>5.4</td> <td>6</td> <td>9</td> </tr> </tbody> </table> | SYMBOL | X | Y | WID | HT | AR_Type D | 36.3 | 5.4 | 6 | 9 | <p>DESIGN BY: W. Johnson PROJECT ID: W-57101</p> <p>CHECKED BY: KLJ LOCATION: INTERSECTION OF NC 200 AND NC 218</p> <p>Jun 02, 2022 DIV: 10</p> |
|---|--|--------|-----|----|-----|----|-----------|------|-----|---|---|---|
| SYMBOL | X | Y | WID | HT | | | | | | | | |
| AR_Type D | 36.3 | 5.4 | 6 | 9 | | | | | | | | |

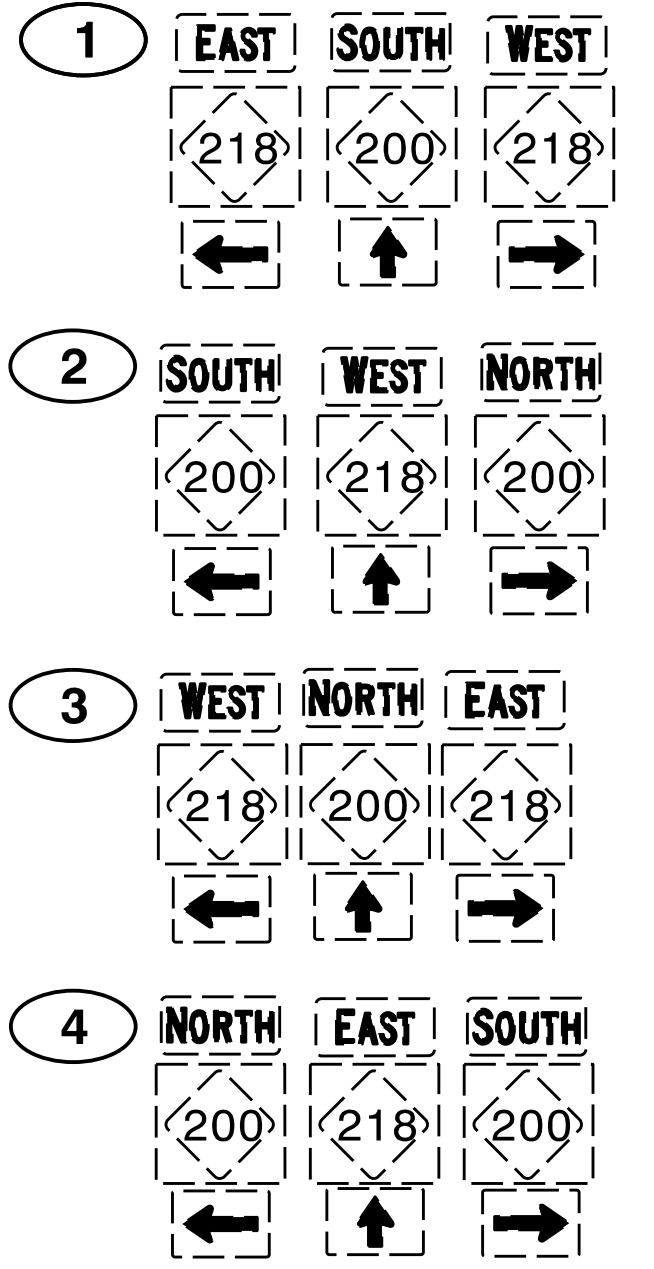
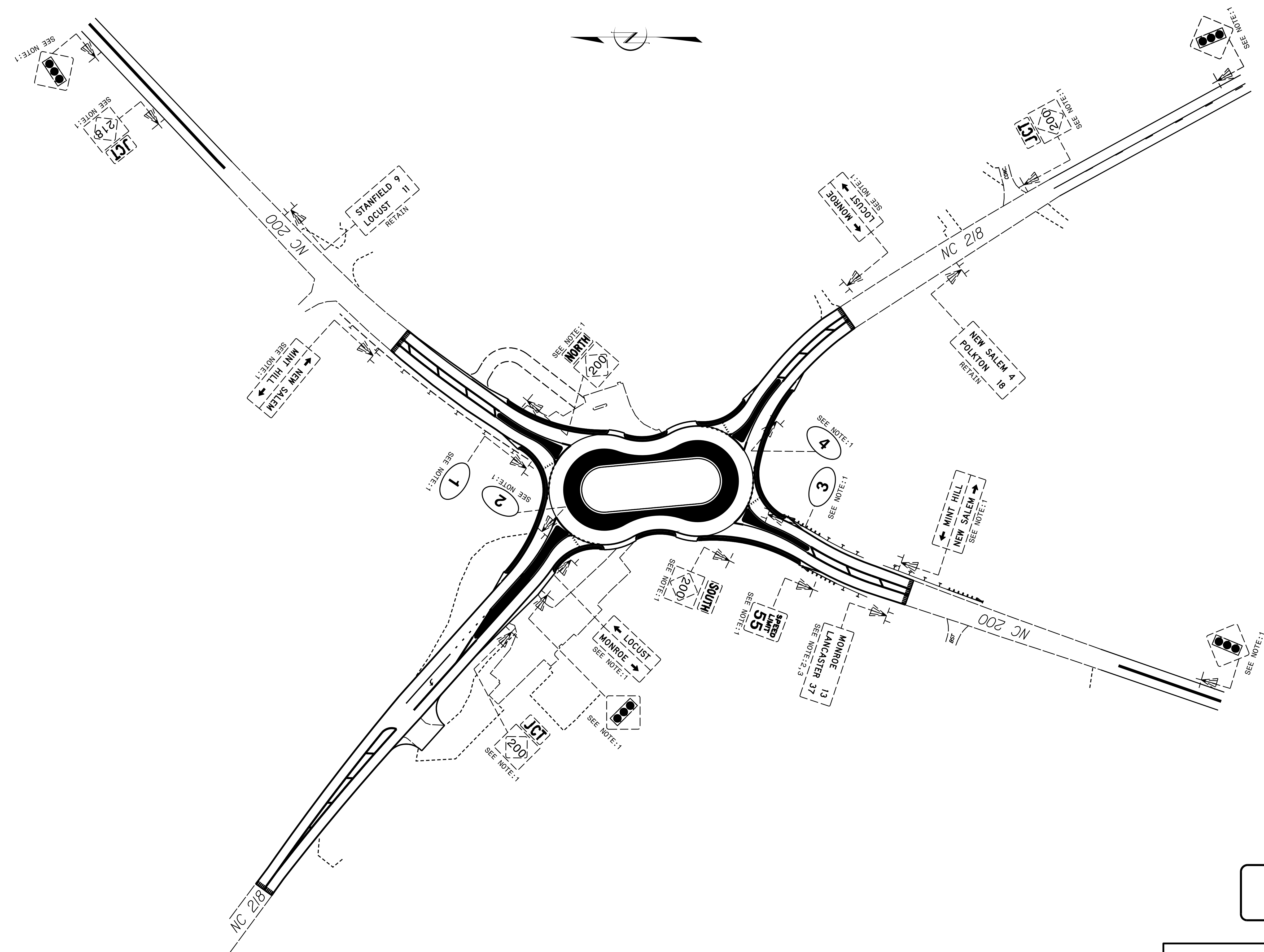
BORDER R=3" TH=1"

Spacing Factor is 1 unless specified otherwise

| Letter spacings are to start of next letter | | | | | | | | | | | | Series/Size |
|---|-----|-----|-----|-----|-----|-----|------|--|--|--|--------|-------------|
| | | | | | | | | | | | | Text Length |
| M | o | n | r | o | e | | | | | | D 2000 | |
| 4.6 | 5.8 | 4.6 | 4.7 | 2.8 | 4.4 | 3.5 | 17.7 | | | | | 25.7 |

Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL


\$\$\$\$\$\$SYTIME\$\$\$\$\$
 \$\$\$\$\$\$DATE\$\$\$\$\$
 \$\$\$\$\$\$DRAWING\$\$\$\$\$
 \$\$\$\$\$\$NO. 024921\$\$\$\$\$
 \$\$\$\$\$\$Renee B. Roach\$\$\$\$\$
 \$\$\$\$\$\$Professional Engineer\$\$\$\$\$
 \$\$\$\$\$\$State of North Carolina\$\$\$\$\$
 \$\$\$\$\$\$

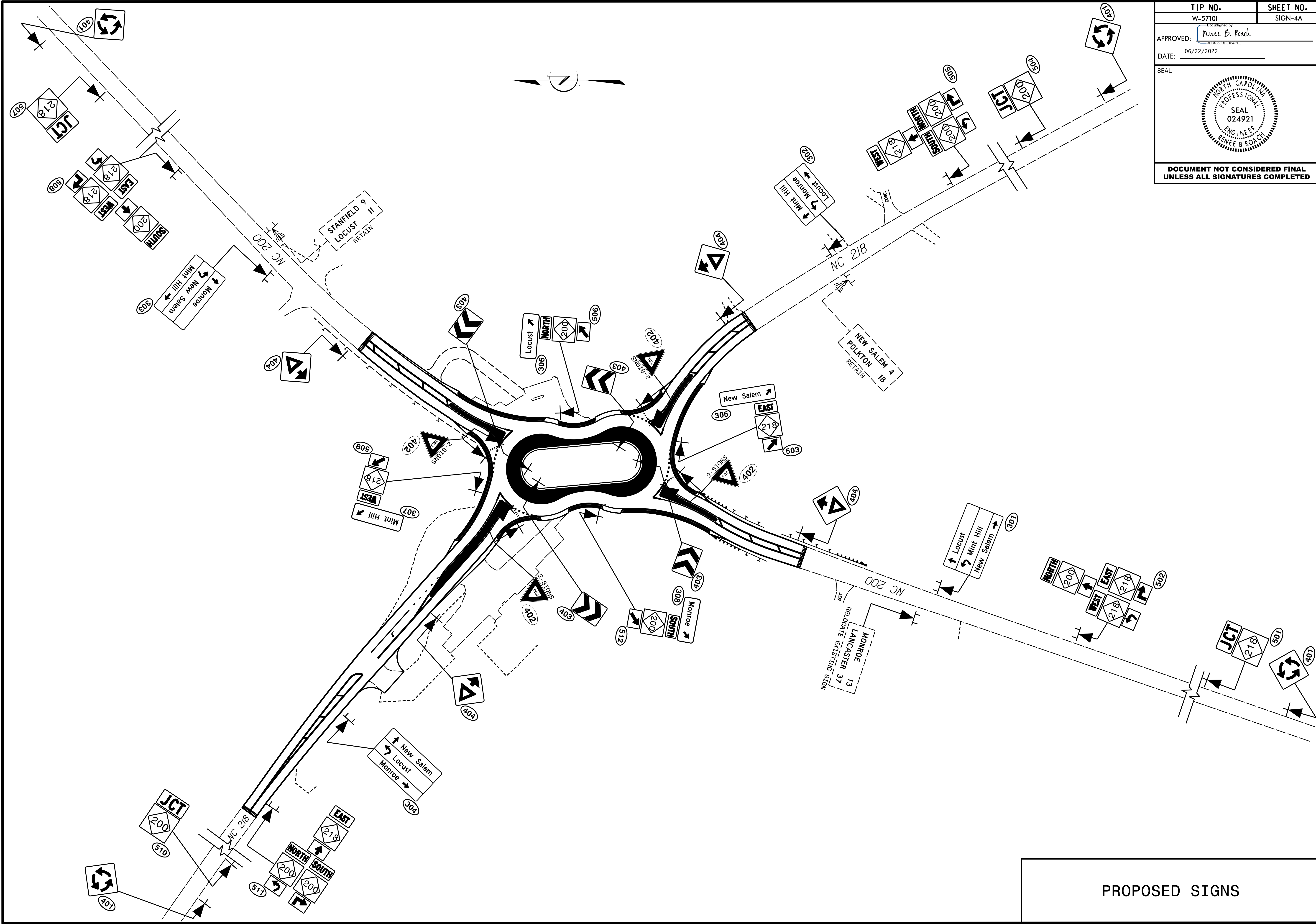


- PROJECT NOTES**
- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
 - 2 DISPOSAL OF SUPPORT, U-CHANNEL
 - 3 SIGN ERECTION, RELOCATE SIGN TYPE D

EXISTING SIGNS

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DGN\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

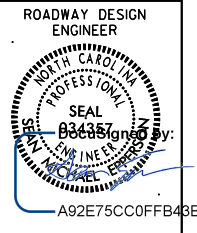
| | |
|---|----------------------|
| TIP NO. W-57101 | SHEET NO. SIGN-4A |
| APPROVED: <i>Renee B. Roach</i> | |
| DATE: 06/22/2022 | |
| SEAL | |
|  | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |



\$\$\$\$\$SYTIME\$\$\$\$\$
 \$\$\$SUBPARALLEL\$\$\$

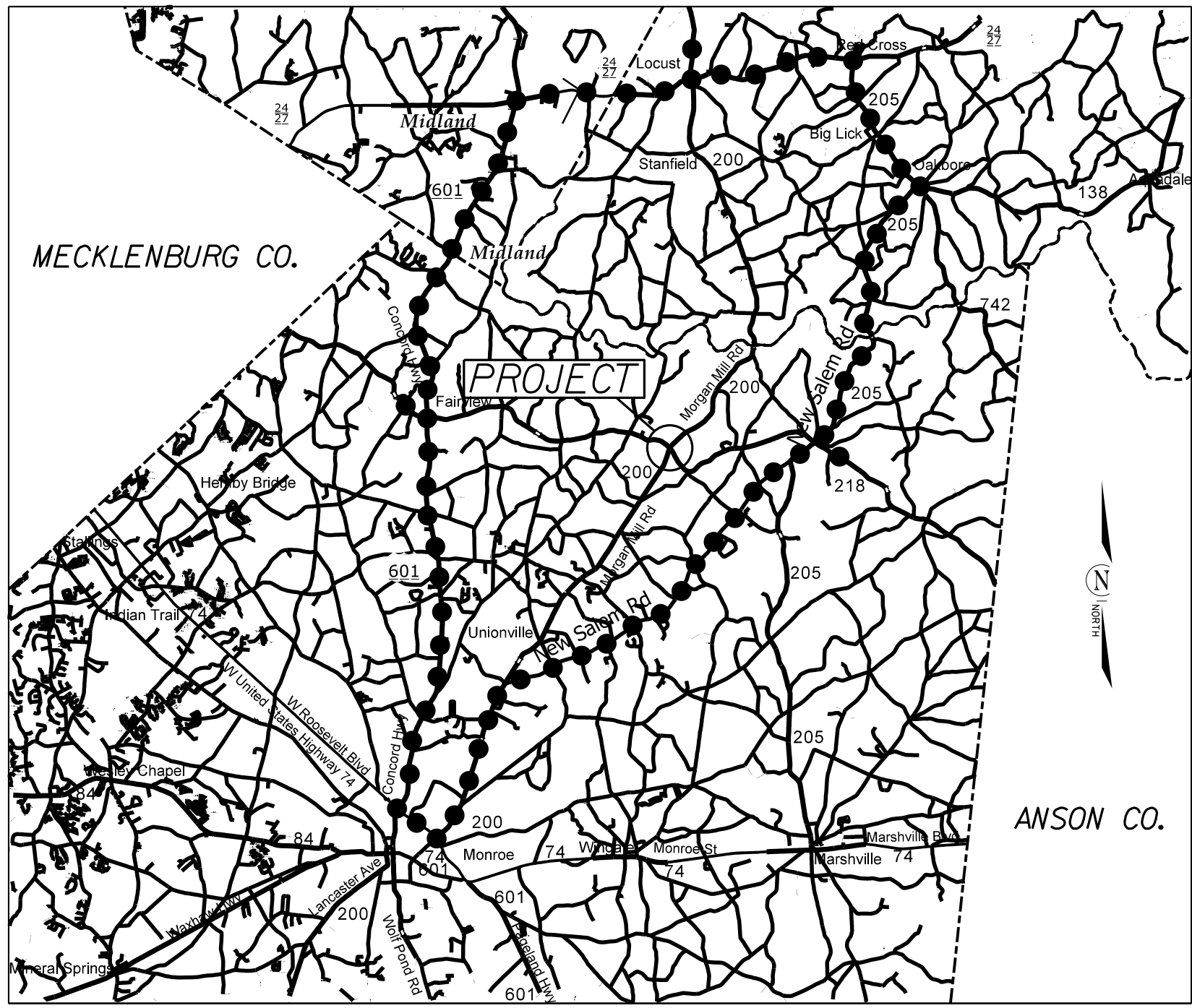
PROPOSED SIGNS

| | |
|--------------------------------|-----------|
| PROJECT NO. | SHEET NO. |
| 44856.3.9 | TCP-1 |
| F.A. PROJECT NO. HSP-020010051 | |

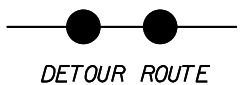


OFFSITE TRUCK DETOUR

OFFSITE DETOUR TO BE INSTALLED AND MAINTAINED BY NCDOT.
 THE CONTRACTOR IS RESPONSIBLE FOR THE BARRACADES ON THE PROJECT. SEE SHEET TCP-2

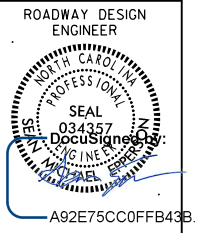


NOTE: CONTRACTOR SHALL CONTACT
 SELINA BLALOCK AT 704-244-8270
 TWO WEEKS PRIOR TO ROAD CLOSURE.



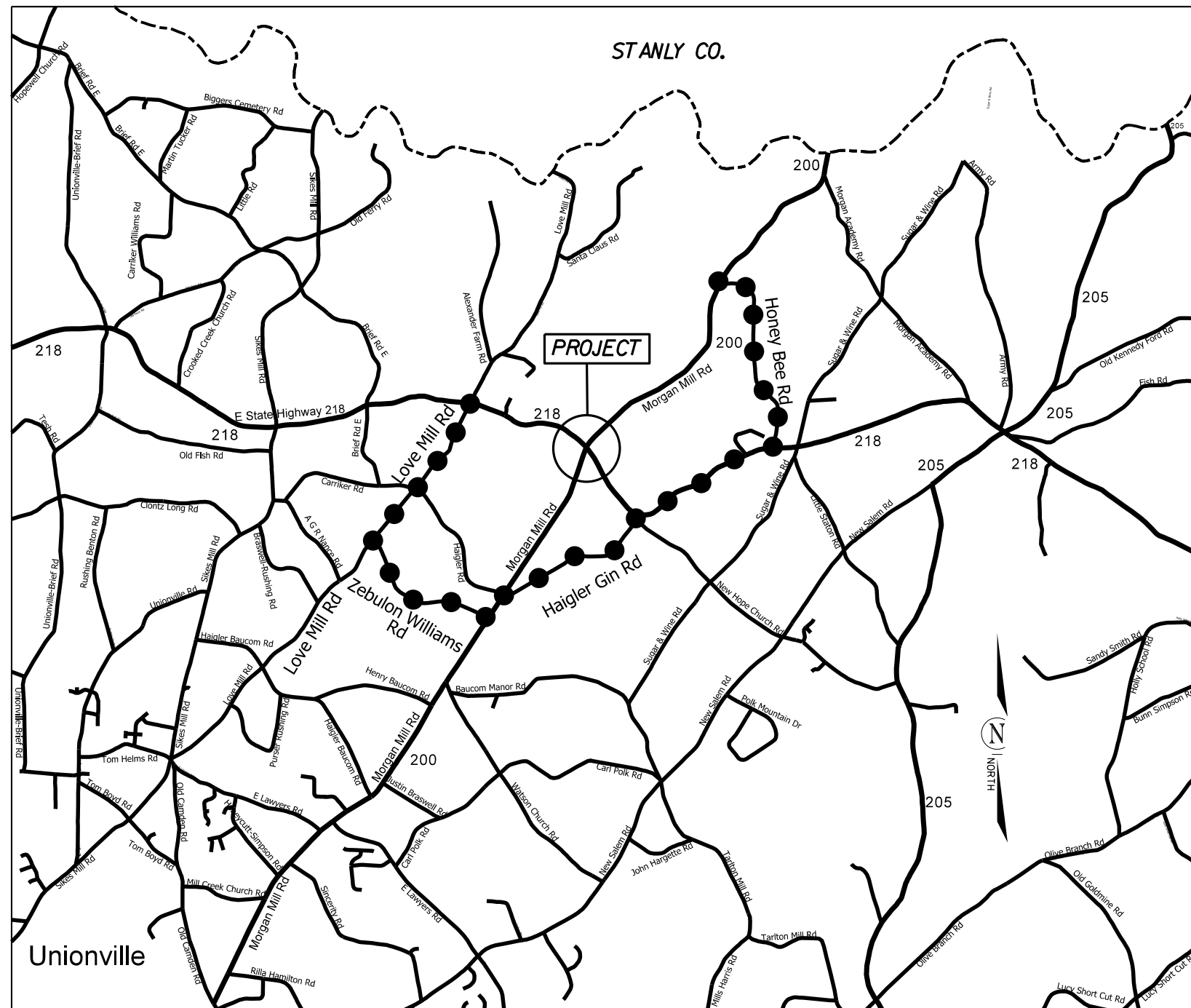
| | | | |
|--|--------|--|-----------|
| ROUNDABOUT AT THE INTERSECTION OF NC 200 AND NC 218 | | | REVISIONS |
| SCALE | N/A | | |
| DATE | 9-2020 | | |
| DWG. BY | CEB | | |
| DESIGN BY | JDH | | |
| APPROVED | JDH | | |

| | |
|--------------------------------|-----------|
| PROJECT NO. | SHEET NO. |
| 44856.3.9 | TCP-1A |
| F.A. PROJECT NO. HSP-020010051 | |

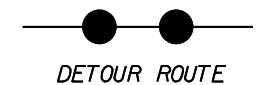


OFFSITE DETOUR

OFFSITE DETOUR TO BE INSTALLED AND MAINTAINED BY NCDOT.
 THE CONTRACTOR IS RESPONSIBLE FOR THE BARRACADES ON THE PROJECT. SEE SHEET TCP-2

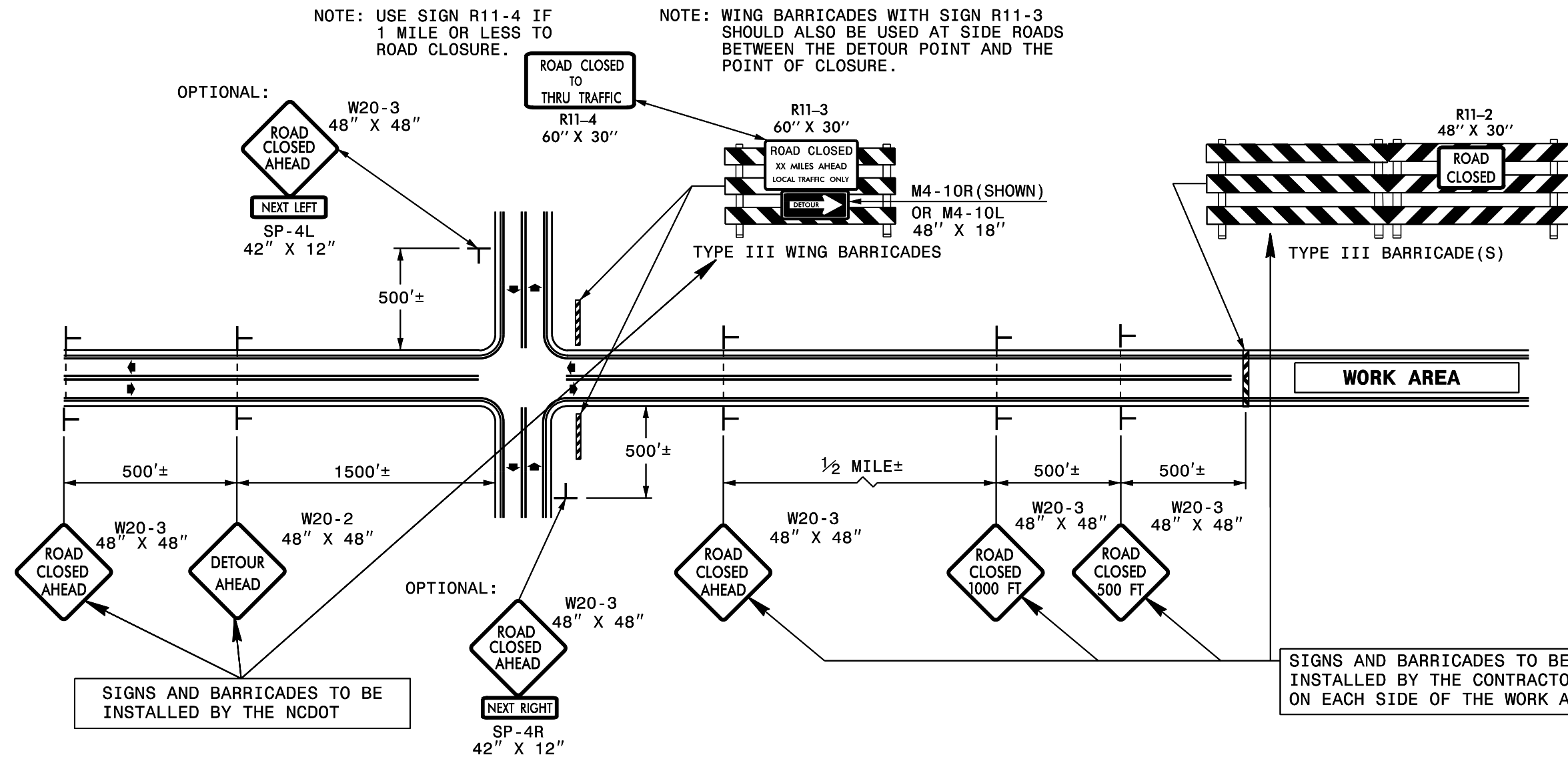
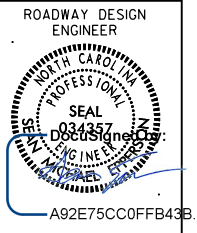


NOTE: CONTRACTOR SHALL CONTACT
 SELINA BLALOCK AT 704-244-8270
 TWO WEEKS PRIOR TO ROAD CLOSURE.



ROUNDBOUT AT THE INTERSECTION
 OF NC 200 AND NC 218

| | | | |
|-----------|--------|---|-----------|
| SCALE | N/A |  | REVISIONS |
| DATE | 9-2020 | | |
| DWG. BY | CEB | | |
| DESIGN BY | JDH | | |
| APPROVED | JDH | | |



NOTE: USE SIGN R11-4 IF 1 MILE OR LESS TO ROAD CLOSURE.

NOTE: WING BARRICADES WITH SIGN R11-3 SHOULD ALSO BE USED AT SIDE ROADS BETWEEN THE DETOUR POINT AND THE POINT OF CLOSURE.

GENERAL NOTES

- 1-IF NECESSARY USE THIS STD. FOR TWO-LANE, TWO-WAY, AND MULTILANE DIVIDED AND UNDIVIDED ROADWAYS.
- 2-INSTALLATION OF DETOUR ROUTING PANELS, TEMPORARY ROUTE MARKERS, DESTINATION SIGNS, AND ANY NECESSARY MODIFICATIONS TO EXISTING OR PROPOSED REGULATORY OR WARNING SIGNS WILL BE MADE BY NCDOT FORCES UNLESS OTHERWISE DESIGNATED IN THE PLANS. PROVIDE A MINIMUM 21 CALENDAR DAY NOTICE TO STATE FORCES BEFORE A ROADWAY IS CLOSED TO TRAFFIC SUCH THAT THE NECESSARY PROVISIONS CAN BE MADE TO INSTALL DETOUR ROUTE SIGNS, INFORM LOCAL EMERGENCY AND LAW ENFORCEMENT PERSONNEL, SCHOOLS, OR ANY OTHER PARTIES AFFECTED BY THE ROAD CLOSURE.
- 3-INSTALL SIGNS BEFORE THE BARRICADES WHEN CLOSING THE ROADWAY TO TRAFFIC. REMOVE BARRICADES BEFORE SIGNS WHEN OPENING THE ROADWAY TO TRAFFIC. INSTALL/REMOVE SIGNS AND BARRICADES WITHIN THE SAME CALENDAR DAY.
- 4-USE ADDITIONAL TYPE III BARRICADES IN STAGGERED LOCATIONS SUPPLEMENTED WITH SIGN R11-4 "ROAD CLOSED TO THRU TRAFFIC" IN THE EVENT THAT TRAFFIC MUST BE MAINTAINED BEYOND THE DETOUR POINT.
- 5-DO NOT DISPLAY FRACTIONS OR DECIMALS ON SIGN R11-3 "ROAD CLOSED XX MILES AHEAD".
- 6-POSITION WING BARRICADES ON THE SHOULDERS AND SLOPE THE STRIPES DOWNWARD IN THE DIRECTION TOWARD WHICH TRAFFIC MUST TURN IN DETOURING.
- 7-USE PORTABLE SIGNS IF ROAD CLOSURE IS TO BE IMPLEMENTED FOR LESS THAN ONE DAY OR FOR EMERGENCIES.

LEGEND

┆ STATIONARY SIGN

◄ DIRECTION OF TRAFFIC FLOW

SIGNS AND BARRICADES TO BE INSTALLED BY THE CONTRACTOR ON EACH SIDE OF THE WORK AREA.

SIGNS AND BARRICADES TO BE INSTALLED BY THE NCDOT

ROUNDABOUT AT THE INTERSECTION OF NC 200 AND NC 218

| | | | |
|-----------|--------|--|-----------|
| SCALE | N/A | | REVISIONS |
| DATE | 9-2020 | | |
| DWG. BY | CEB | | |
| DESIGN BY | JDH | | |
| APPROVED | JDH | | |

| | |
|--------------------------------|-----------|
| PROJECT NO. | SHEET NO. |
| 44856.3.9 | UC-1 |
| F.A. PROJECT NO. HSP-020010051 | |

GENERAL NOTES:

CONTACT MICHAEL CALDWELL OF UNION COUNTY PUBLIC WORKS 72 HOURS PRIOR TO BEGINNING WORK ON THIS PROPOSED WATER MAIN AT (M) 704-968-4150 (W) 704-296-4284

THE PROPOSED WATER LINE CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2018; UNION COUNTY'S "SANITARY SEWER AND WATER SPECIFICATIONS" AND "STANDARD DETAILS" REVISION #6 DATED NOVEMBER 2014; AND THE NOTES AND DETAILS PROVIDED IN THE CONSTRUCTION PLANS.

PRIOR TO WATER CONSTRUCTION, THE CONTRACTOR MUST SUBMIT TO UNION COUNTY THE PROPOSED UTILITY MATERIAL SUBMITTALS AND SHOP DRAWINGS, AS APPLICABLE FOR REVIEW AND OBTAIN UNION COUNTY APPROVAL OF UTILITY MATERIAL SUBMITTALS AND SHOP DRAWINGS

WATER VALVES ARE TO BE OPERATED BY UNION COUNTY PUBLIC WORKS STAFF

ENTIRE LENGTH OF RELOCATED WATER MAIN MUST BE RESTRAINED JOINT

FIELD-LOCKING GASKETS ARE ALLOWABLE AS RESTRAINING DEVICES FOR WATER PIPE.

WATER PIPE IS TO BE PC 360 DUCTILE IRON PIPE.

ALL SLEEVES MUST BE OF THE RESTRAINED JOINT TYPE.

CONTRACTOR SHALL PROVIDE A PLAN FOR BLOCKING AT ALL TIE-IN LOCATIONS. PLAN MUST BE APPROVED BY UNION COUNTY REPRESENTATIVE PRIOR TO PERFORMING WORK.

CONTRACTOR IS TO USE TEMP. PLUGS AND BLOW OFFS FOR TESTING AND DISINFECTION

WATER FOR TESTING WILL BE PROVIDED BY UNION COUNTY. TESTS SHALL BE REPEATED UNTIL TEST RESULTS ARE SATISFACTORY.

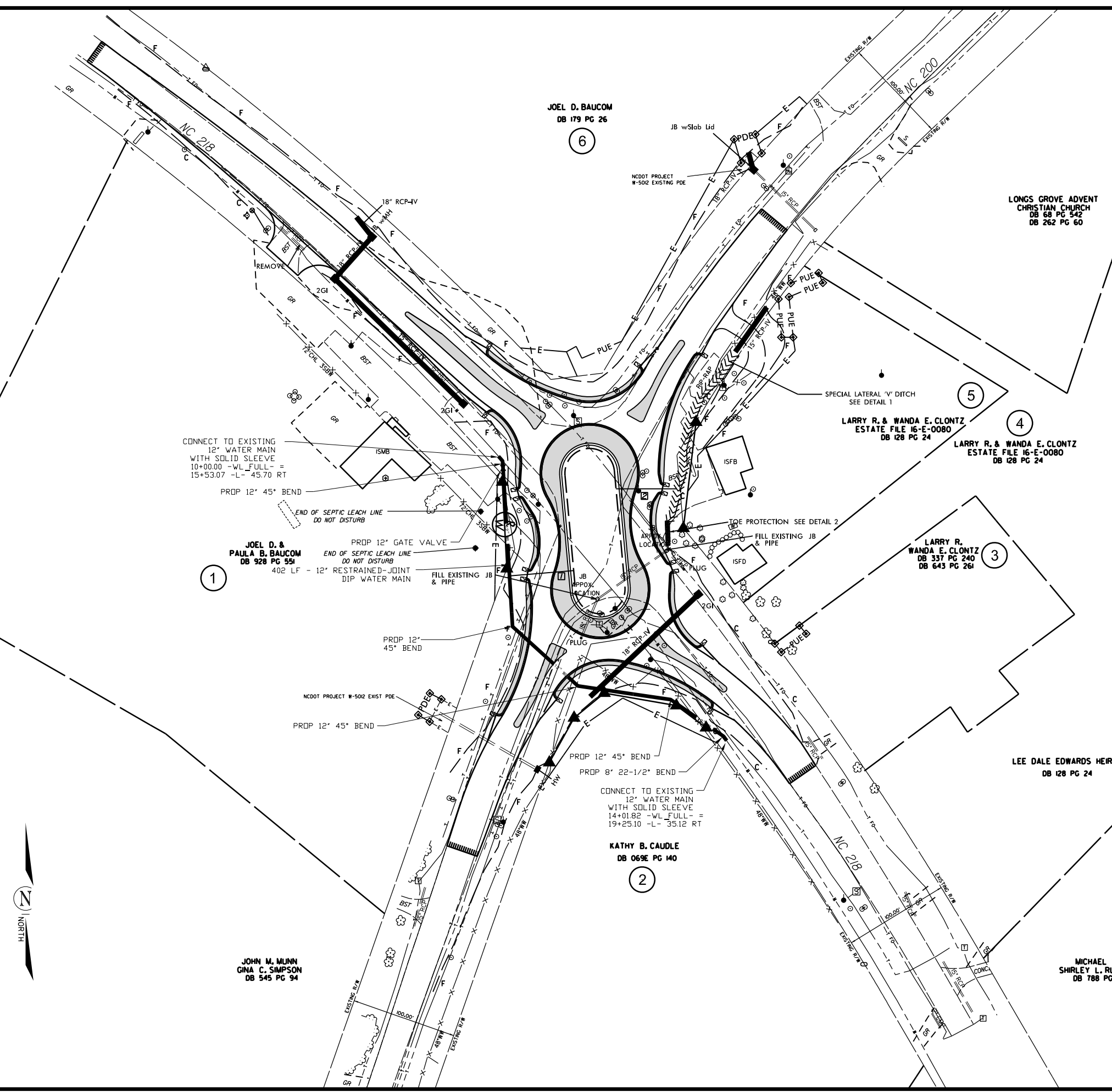
SAMPLES FOR BACTERIOLOGICAL TESTING WILL BE COLLECTED BY UNION COUNTY PERSONNEL AND TESTED AT K&W LABORATORIES IN MIDLAND, NC. SAMPLES WILL TYPICALLY BE COLLECTED ONLY ON WEDNESDAYS. EACH SAMPLE WILL COST \$50 TO TEST, PAYABLE BY THE CONTRACTOR. REQUESTS FOR SAMPLE COLLECTION MUST BE MADE AT LEAST 48 HOURS IN ADVANCE OF THE SAMPLE COLLECTION - COORDINATE WITH UNION COUNTY FIELD REPRESENTATIVE. SAMPLE RESULTS WILL BE AVAILABLE NO SOONER THAN 24 HOURS AFTER THE SAMPLES ARE DELIVERED TO THE LAB.

THE NEW WATER MAIN MUST BE AT LEAST 3 FEET BELOW THE PROPOSED EDGE OF PAVEMENT AND PROVIDE A MINIMUM 3 FEET OF COVER AT ALL TIMES.

CONTRACTOR IS TO PROVIDE TWO TIE-IN CREWS WORKING CONCURRENTLY, ONE AT EACH END TO MINIMIZE SHUTDOWN TIME.

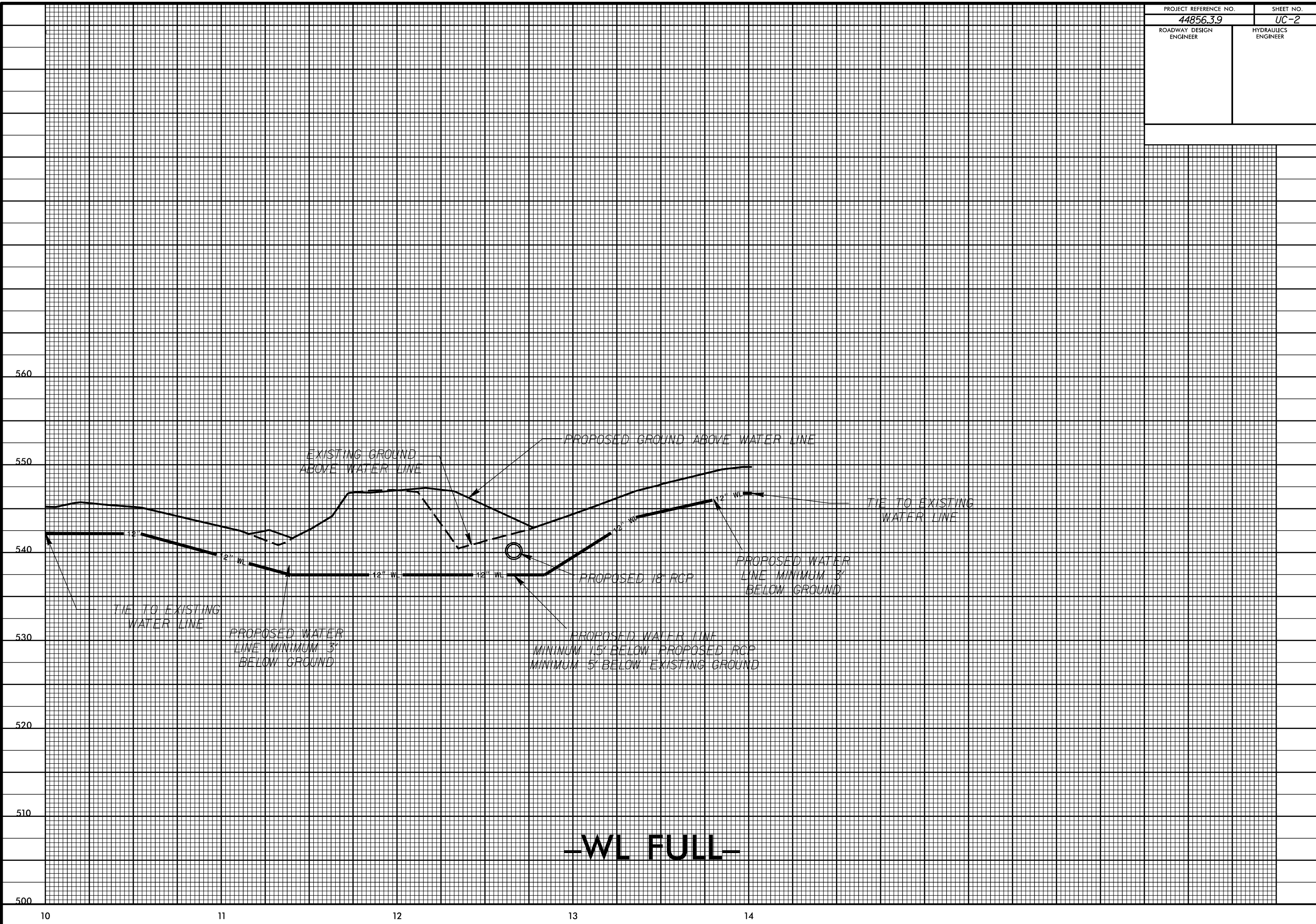
SHUT DOWN WILL BE LIMITED TO A MAXIMUM OF FOUR HOURS. PROVIDE 96 HOURS ADVANCE NOTICE TO UNION COUNTY PRIOR TO SHUT-DOWN OF WATER MAIN.

DUE TO OPERATING HOURS OF LOCAL BUSINESSES, TIE-INS TO THE EXISTING WATER MAIN MAY REQUIRE NIGHT WORK

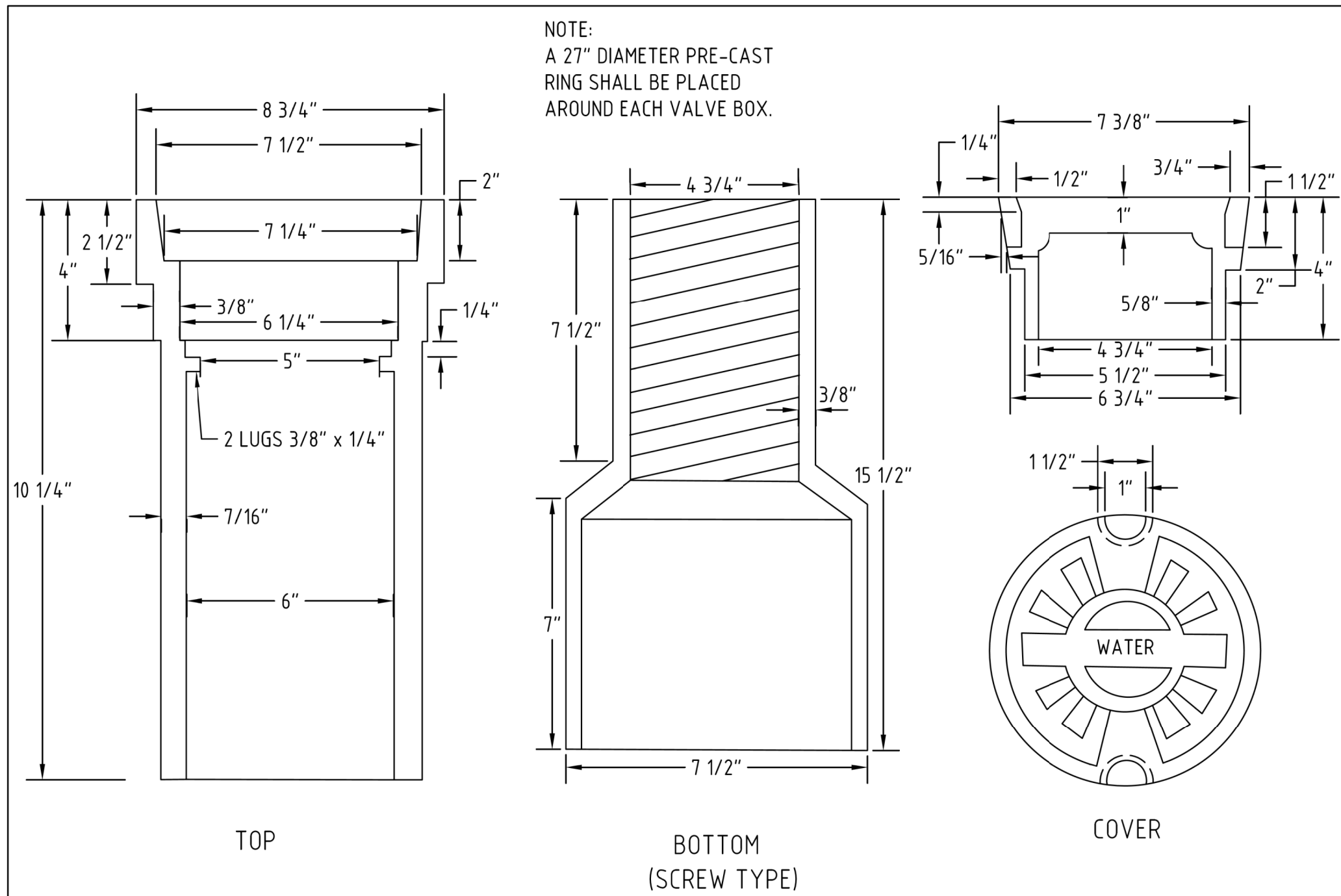


ROUNDABOUT AT THE INTERSECTION
OF NC 200 AND NC 218

| | | | |
|-----------|---------|--|-----------|
| SCALE | 1"=50' | | REVISIONS |
| DATE | 02-2020 | | |
| DWG. BY | CEB | | |
| DESIGN BY | JDH | | |
| APPROVED | JDH | | |



-WL FULL-

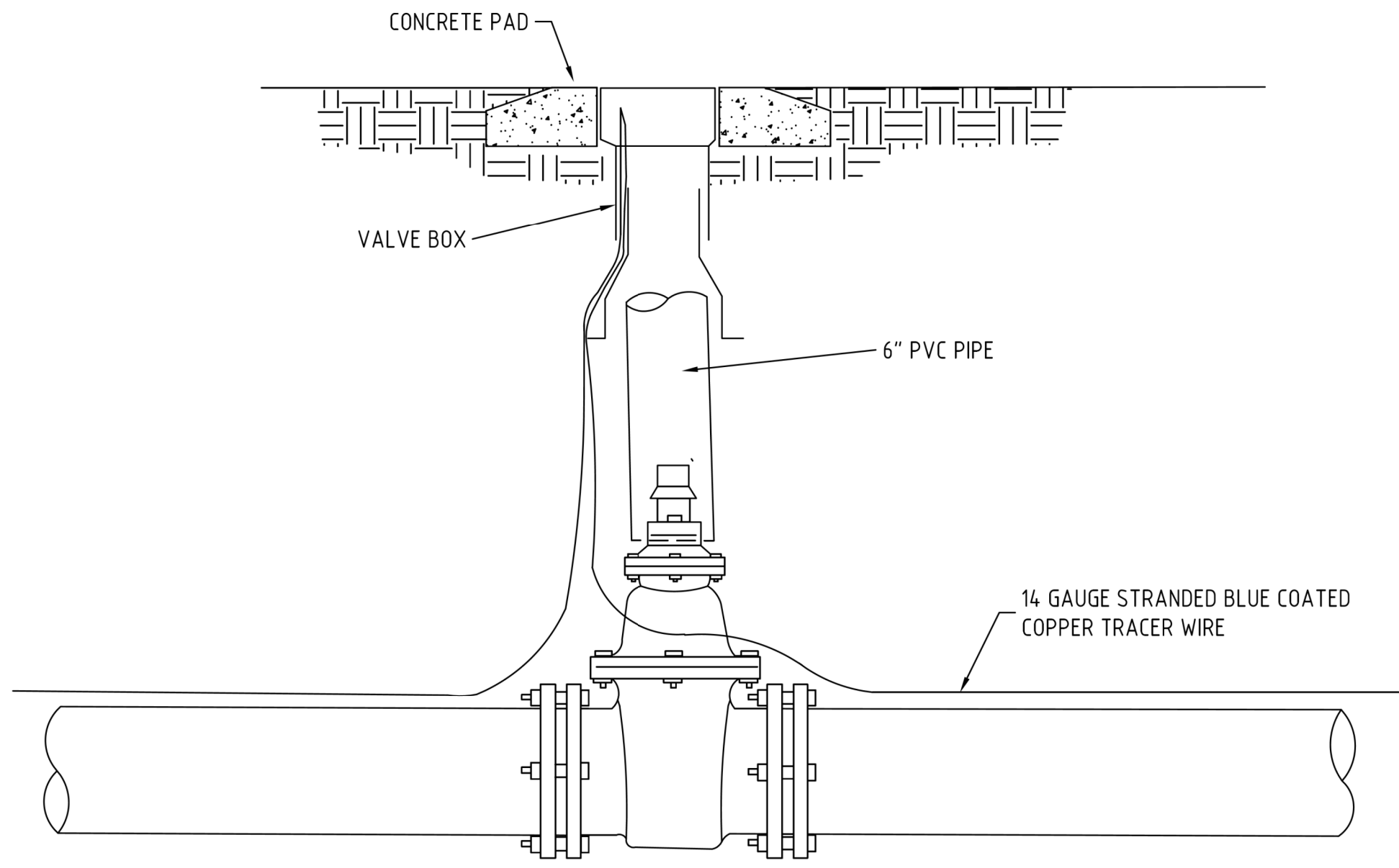


| | | | |
|--|-------------------|--|---|
| UNION COUNTY PUBLIC WORKS DEPARTMENT UNION COUNTY, N.C. | STANDARD DETAIL | | 1 |
| | VALVE BOX | | |
| | SCALE: N.T.S. | | |
| | DATE: 11-17-06 | | |

ROUNDABOUT AT THE INTERSECTION
OF NC 200 AND NC 218


| | | | |
|-----------|--------|--|-----------|
| SCALE | r=50' | | REVISIONS |
| DATE | 6-2022 | | |
| DWG. BY | CEB | | |
| DESIGN BY | CEB | | |
| APPROVED | JDH | | |

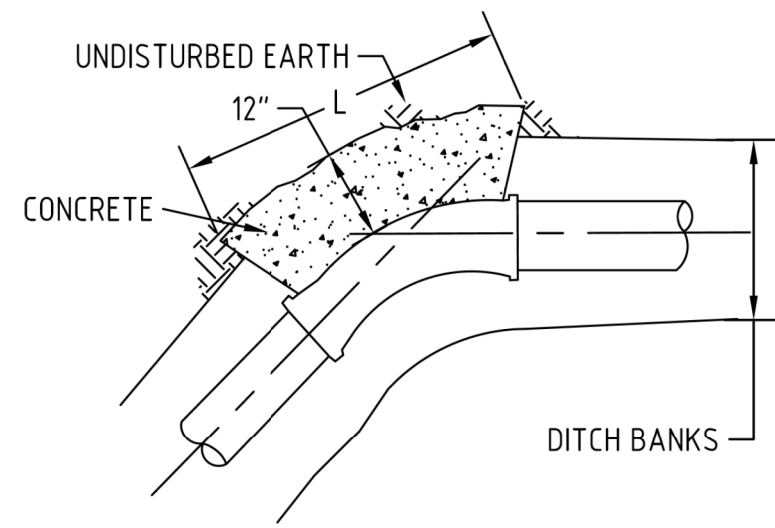
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| PROJECT NO. | SHEET NO. |
| 44856.3.9 | UC-3A |
| F.A. PROJECT NO. HSP-020010051 | |



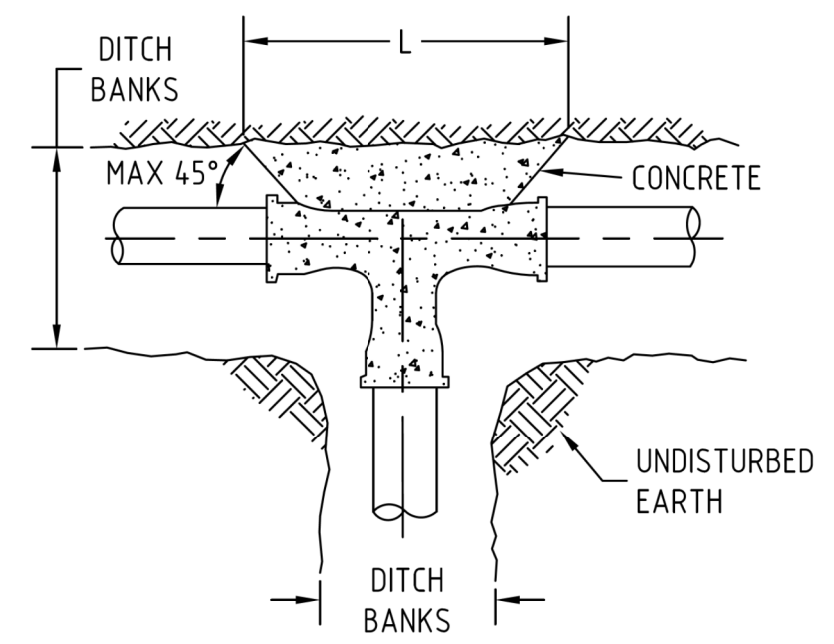
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|--|------------------------|------------------|----|
| UNION COUNTY PUBLIC WORKS DEPARTMENT UNION COUNTY, N.C. | STANDARD DETAIL | SCALE: N.T.S. | 1A |
| | VALVE BOX INSTALLATION | DATE: 10-4-11 | |

ROUNDABOUT AT THE INTERSECTION
OF NC 200 AND NC 218

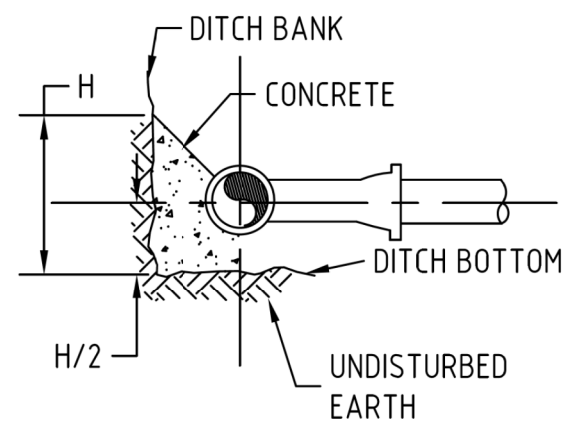
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|-----------|--------|---|-----------|
| SCALE | r=50' |  | REVISIONS |
| DATE | 6-2022 | | |
| DWG. BY | CEB | | |
| DESIGN BY | CEB | | |
| APPROVED | JDH | | |



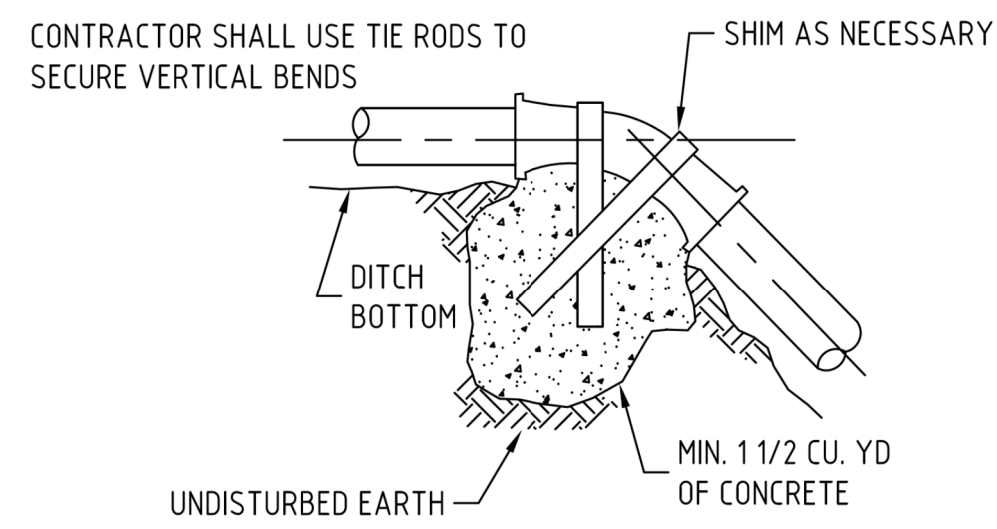
PLAN 45° BENDS
ALSO 90°, 22 1/2°, 11 1/2°



PLAN TEE



ELEVATION AT FITTINGS



VERTICAL BEND

| | | | |
|--|-------------------|--|----|
| UNION COUNTY PUBLIC WORKS DEPARTMENT UNION COUNTY, N.C. | STANDARD DETAIL | | 16 |
| | THRUST BLOCK | | |
| | SCALE: N.T.S. | | |
| | DATE: 11-17-06 | | |

ROUNDABOUT AT THE INTERSECTION
OF NC 200 AND NC 218

| | | | |
|-----------|--------|--|-----------|
| SCALE | r=50' | | REVISIONS |
| DATE | 6-2022 | | |
| DWG. BY | CEB | | |
| DESIGN BY | CEB | | |
| APPROVED | JDH | | |

| ANCHORAGE SCHEDULE | | | | | | | | | | | |
|--------------------|--------------|------|--------------|------|----------|------|----------|------|------|------|---------------------------|
| PIPE SIZE | 11 1/4° BEND | | 22 1/2° BEND | | 45° BEND | | 90° BEND | | TEE | | TEST PRESSURE (P.S.I.) |
| | L | H | L | H | L | H | L | H | L | H | |
| 6" | 1'3" | 1'0" | 2'3" | 1'0" | 2'6" | 1'6" | 2'9" | 1'6" | 2'0" | 1'6" | 200 |
| | 1'6" | 1'3" | 2'3" | 1'6" | 3'0" | 1'6" | 4'0" | 1'6" | 3'0" | 1'6" | 300 |
| 8" | 1'6" | 1'6" | 2'6" | 1'9" | 3'0" | 2'0" | 3'9" | 2'0" | 2'6" | 2'0" | 200 |
| | 2'0" | 1'6" | 3'0" | 2'0" | 3'9" | 2'3" | 4'6" | 2'6" | 3'6" | 2'3" | 300 |
| 12" | 2'6" | 1'9" | 4'0" | 2'3" | 4'3" | 3'0" | 5'0" | 3'3" | 4'0" | 3'0" | 200 |
| | 3'6" | 2'0" | 5'3" | 2'6" | 6'0" | 3'3" | 7'0" | 3'6" | 5'0" | 3'6" | 300 |
| 14" | 3'0" | 1'0" | 4'0" | 3'0" | 4'6" | 3'9" | 6'0" | 3'9" | 4'6" | 3'6" | 200 |
| | 4'0" | 2'6" | 5'3" | 3'6" | 6'0" | 4'3" | 6'6" | 5'0" | 5'0" | 5'0" | 300 |
| 16" | 3'0" | 2'9" | 4'6" | 3'6" | 5'0" | 4'6" | 7'0" | 4'3" | 5'0" | 4'0" | 200 |
| | 4'0" | 3'0" | 6'3" | 3'9" | 6'5" | 5'3" | 8'0" | 5'3" | 7'6" | 4'0" | 300 |

THRUST BLOCK DIMENSIONS BASED ON SOIL BEARING CAPACITY OF 2000 P.S.F. AND A WATER TEST PRESSURE OF 150 P.S.I. SIZES OF THRUST BLOCKS MAY BE REVISED BY THE ENGINEER WHERE BEARING CAPACITY OF SOIL VARIES.

PROVIDE TAR PAPER JOINT BETWEEN CONCRETE THRUST BLOCK AND PORTION OF PIPE BEING ANCHORED.

ALL CONCRETE THRUST BLOCKS SHALL BE 2500 P.S.I. CONCRETE.

MAXIMUM VERTICAL DEFLECTION SHALL BE 22 1/2°.

JOINTS SHALL REMAIN FREE OF CONCRETE FOR INSPECTION, REPAIR OR REPLACEMENT OF JOINTS.

UNION COUNTY PUBLIC WORKS DEPARTMENT
UNION COUNTY, N.C.

STANDARD DETAIL

THRUST BLOCK SPECIFICATIONS

SCALE:
N/A
DATE:
11-17-06

17

ROUNDABOUT AT THE INTERSECTION
OF NC 200 AND NC 218

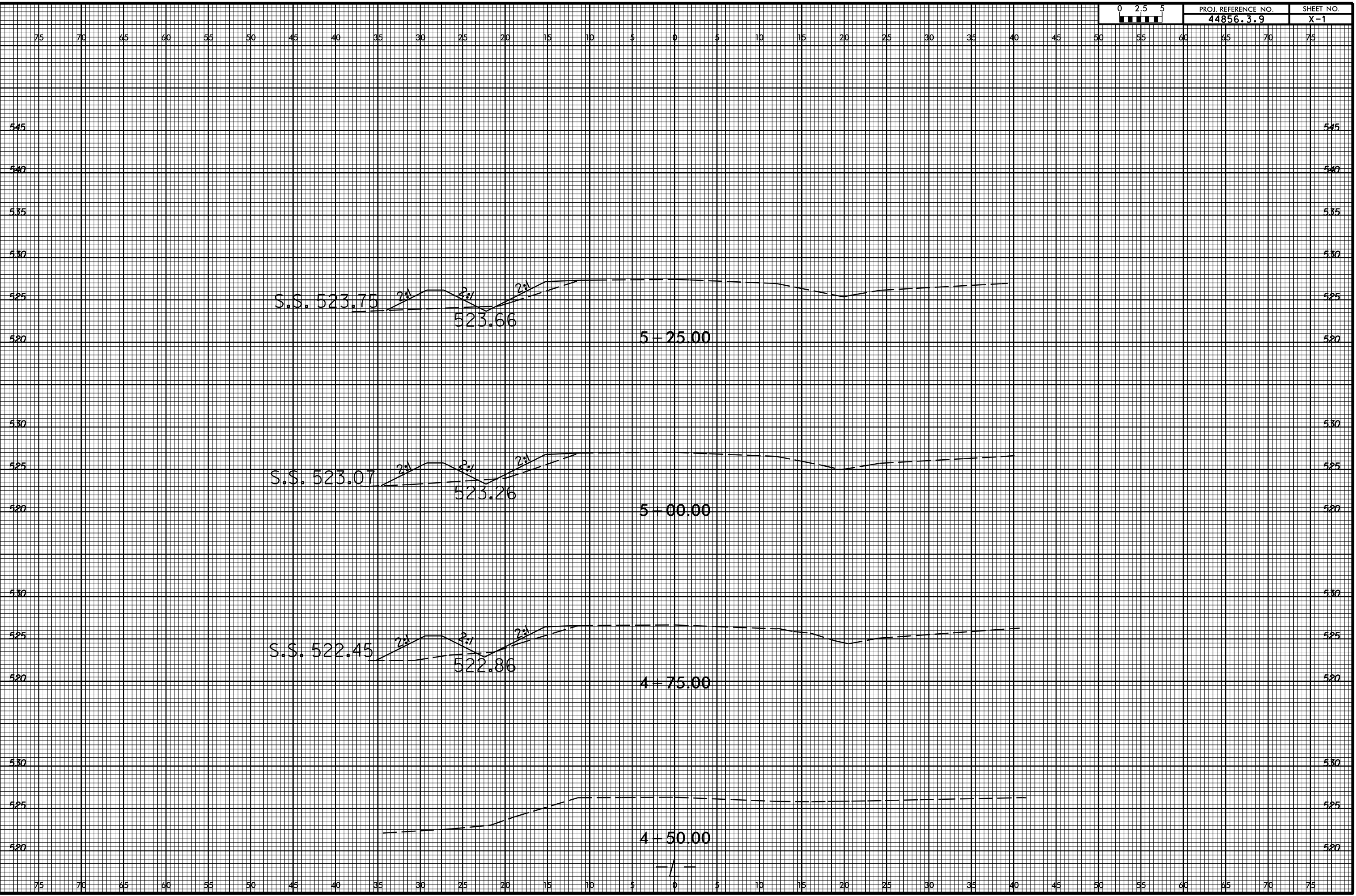
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DATE: 6-2022
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DESIGN BY: CEB
APPROVED: JDH

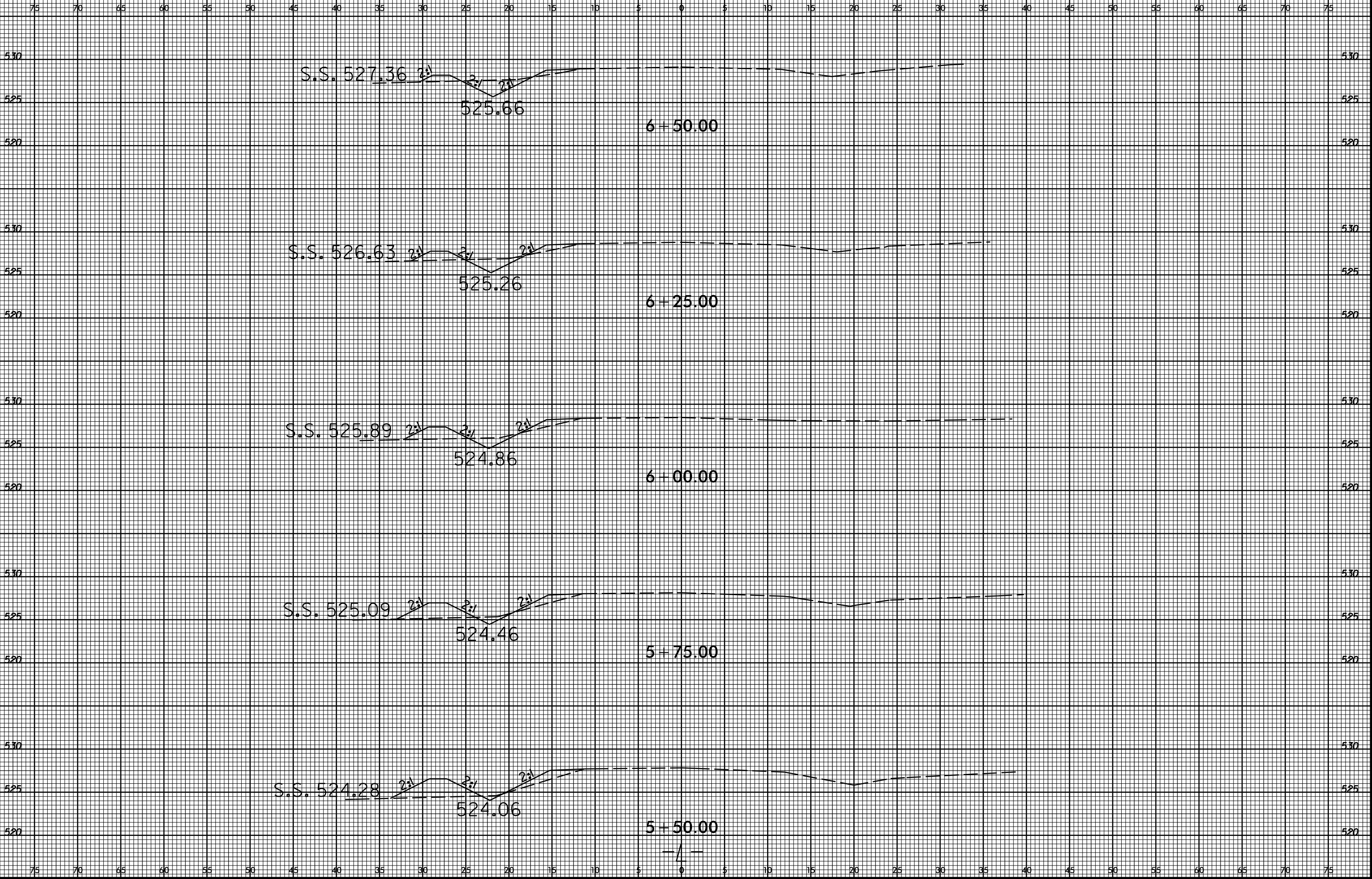


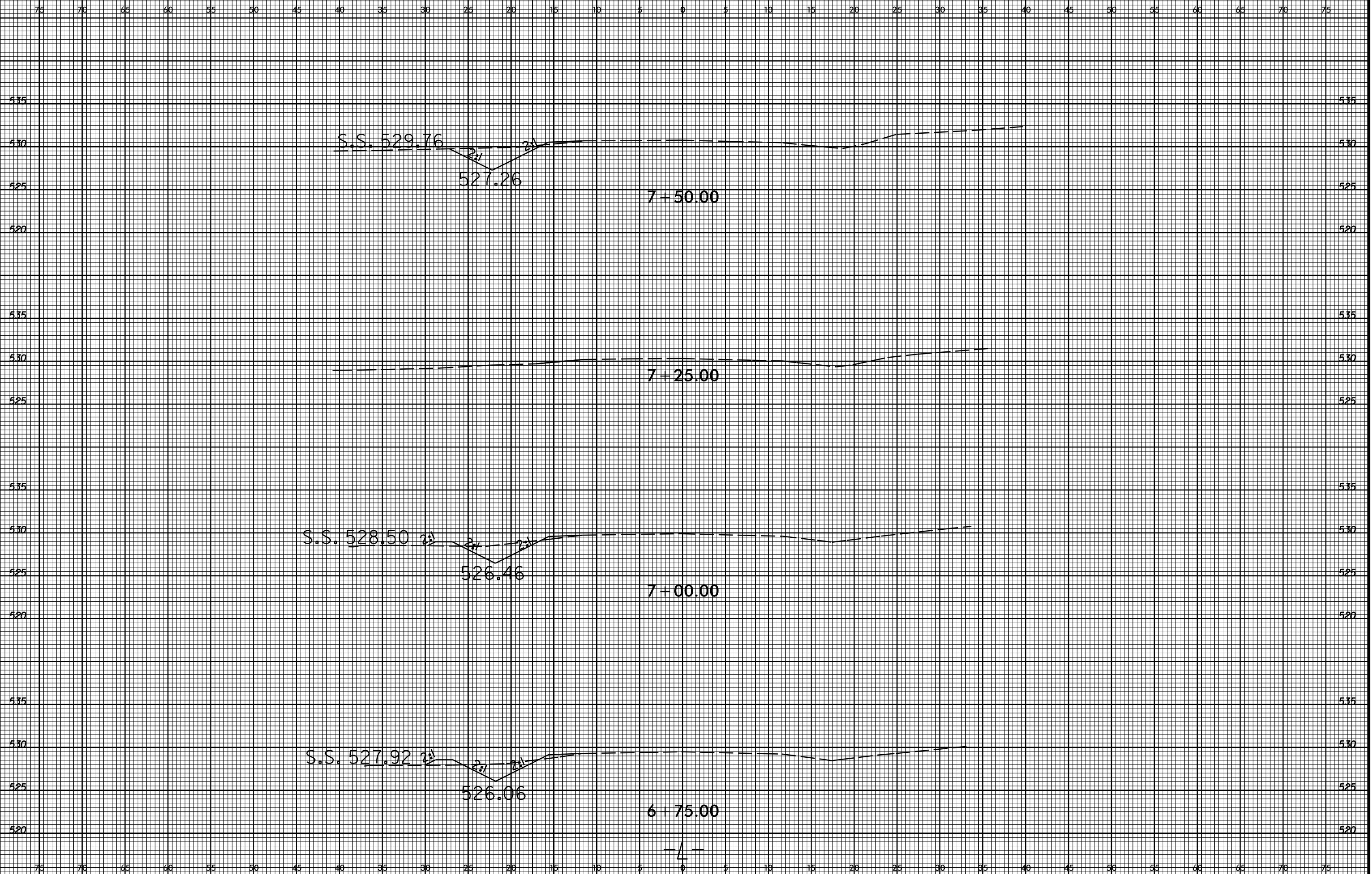
REVISIONS

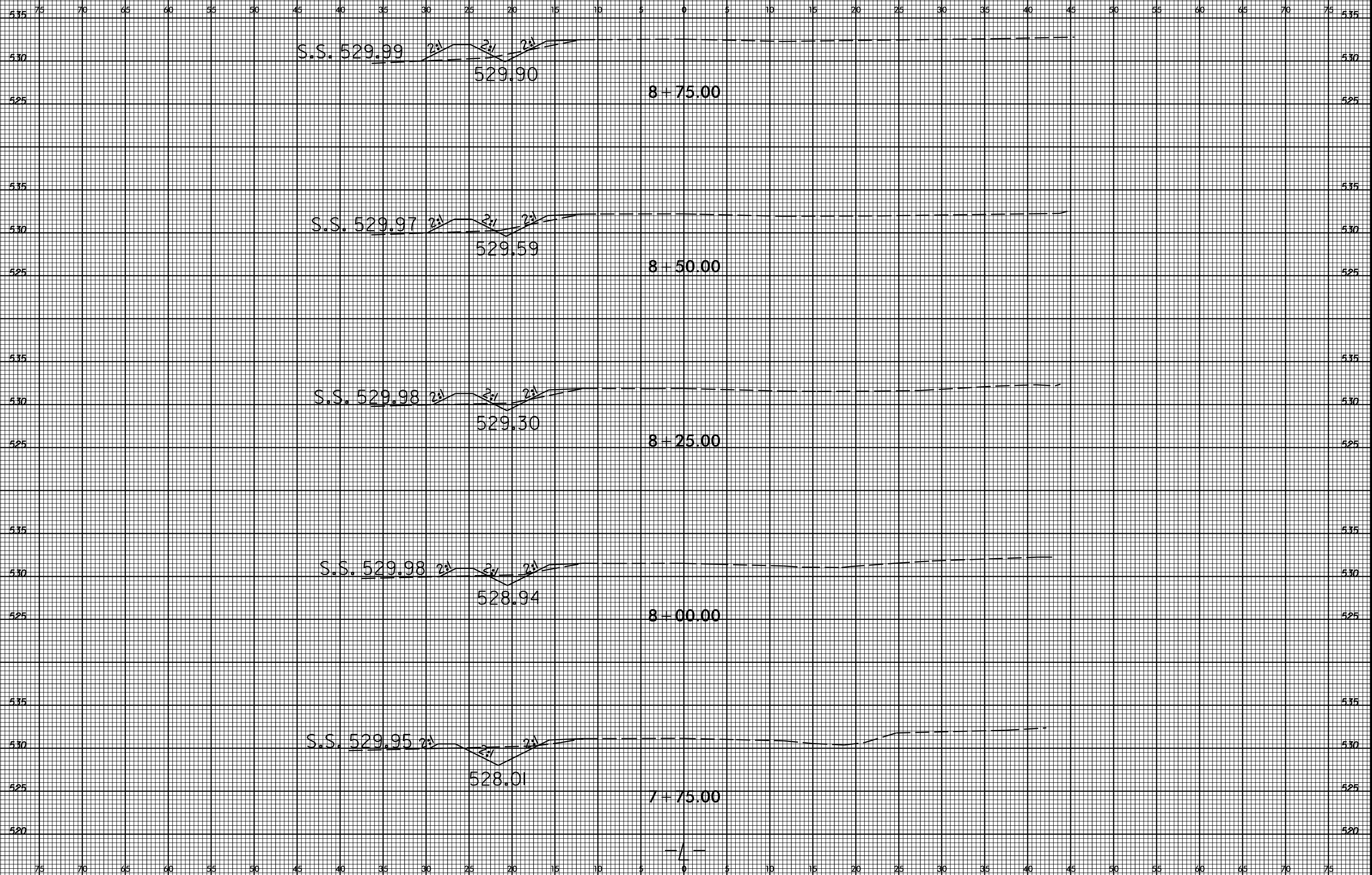
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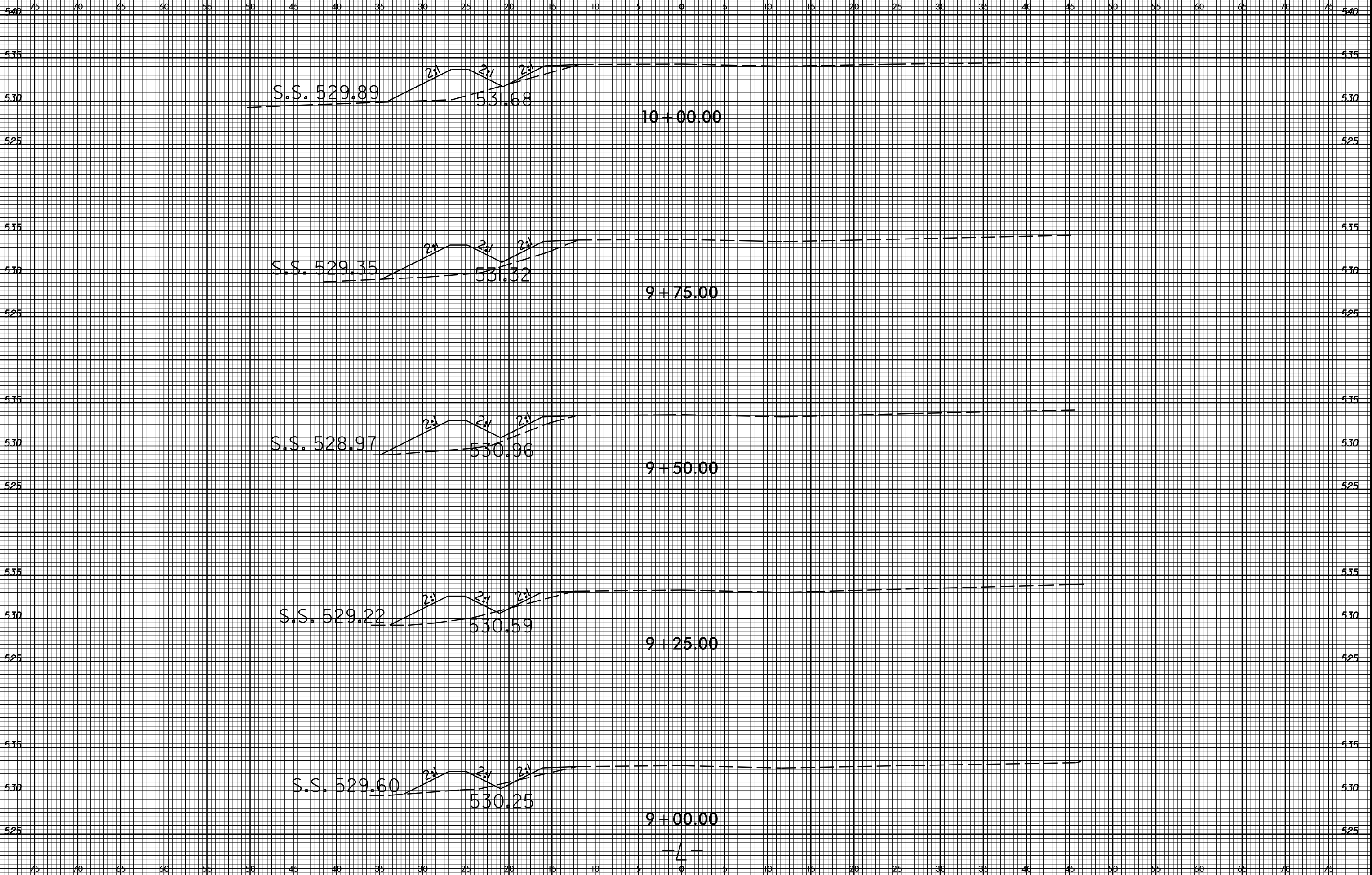
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75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

540 540

535 S.S. 534.16 2% 2% 2% S.S. 535.18 535

530 533.51 11+00.00 530

540 540

535 S.S. 533.17 2% 2% 2% S.S. 534.95 535

530 532.99 10+75.00 530

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525 525

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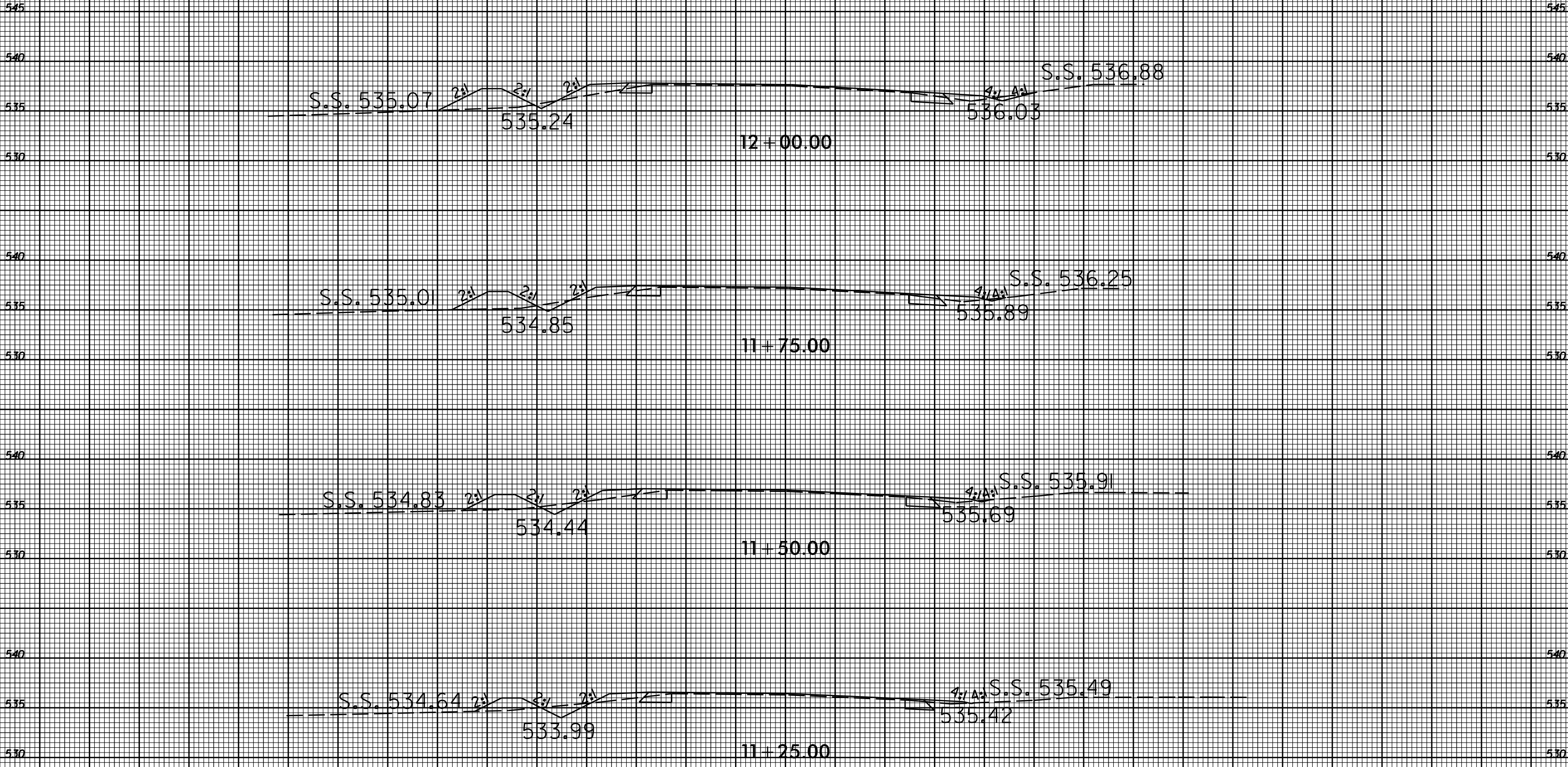
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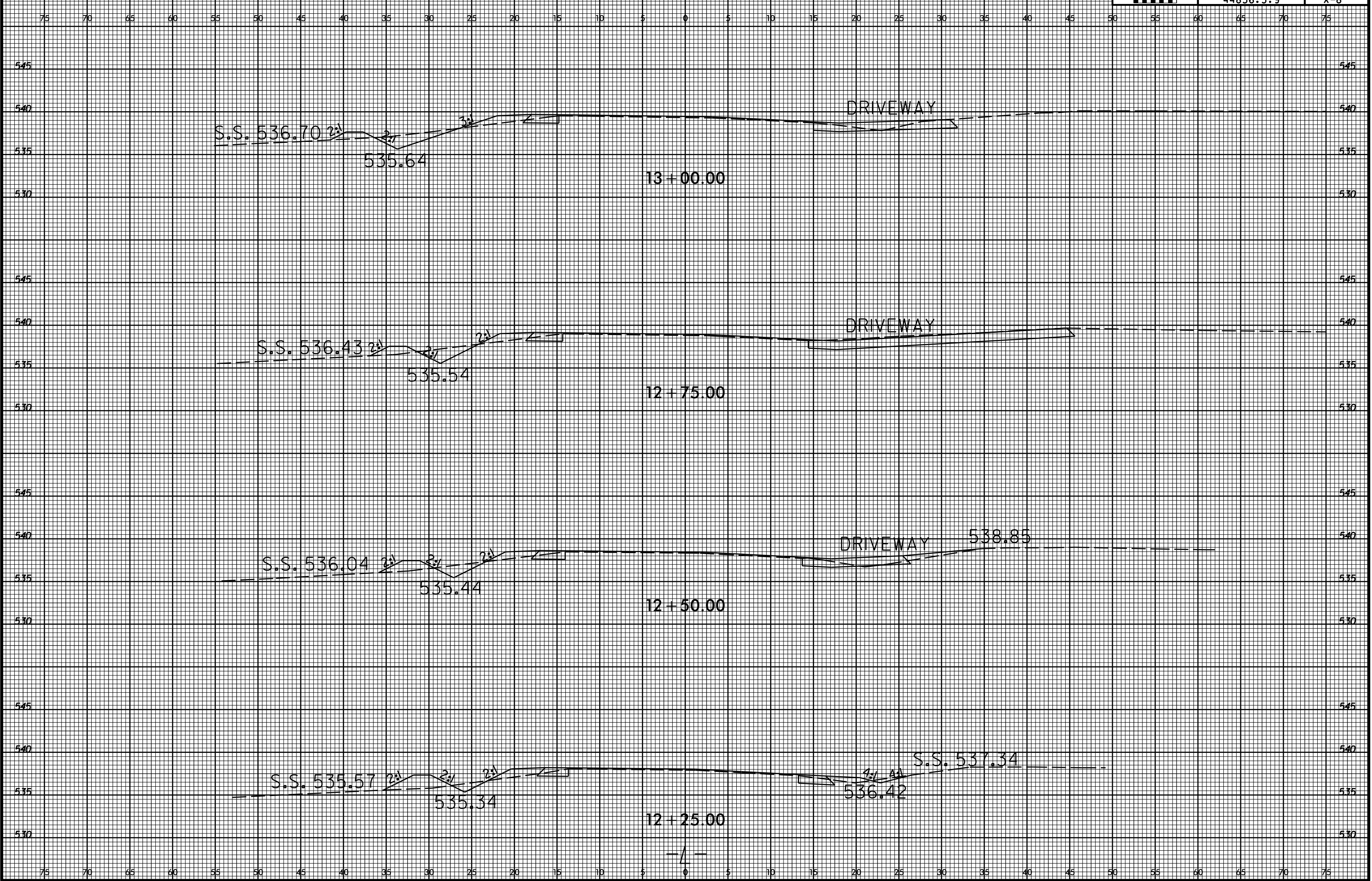
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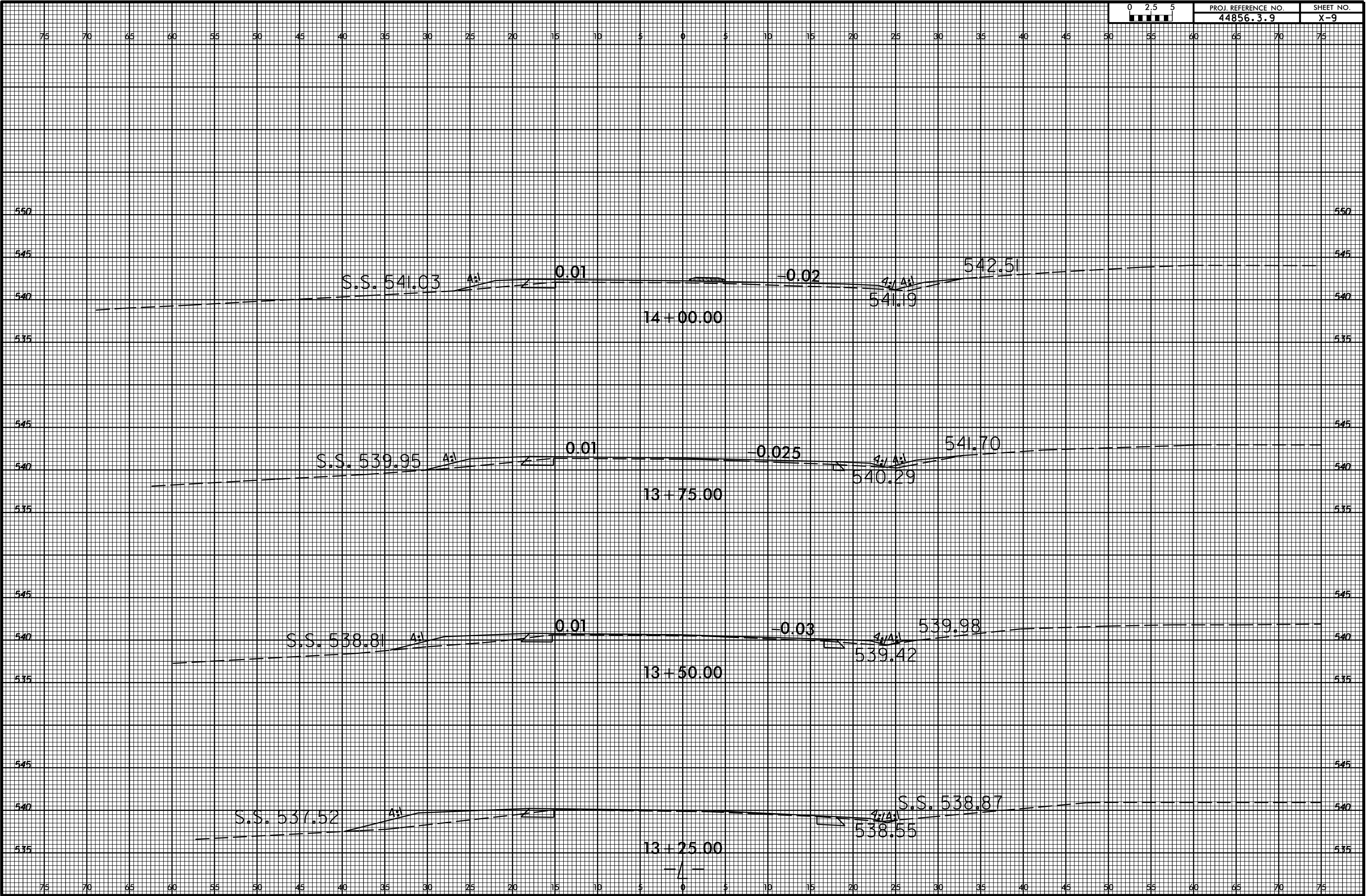
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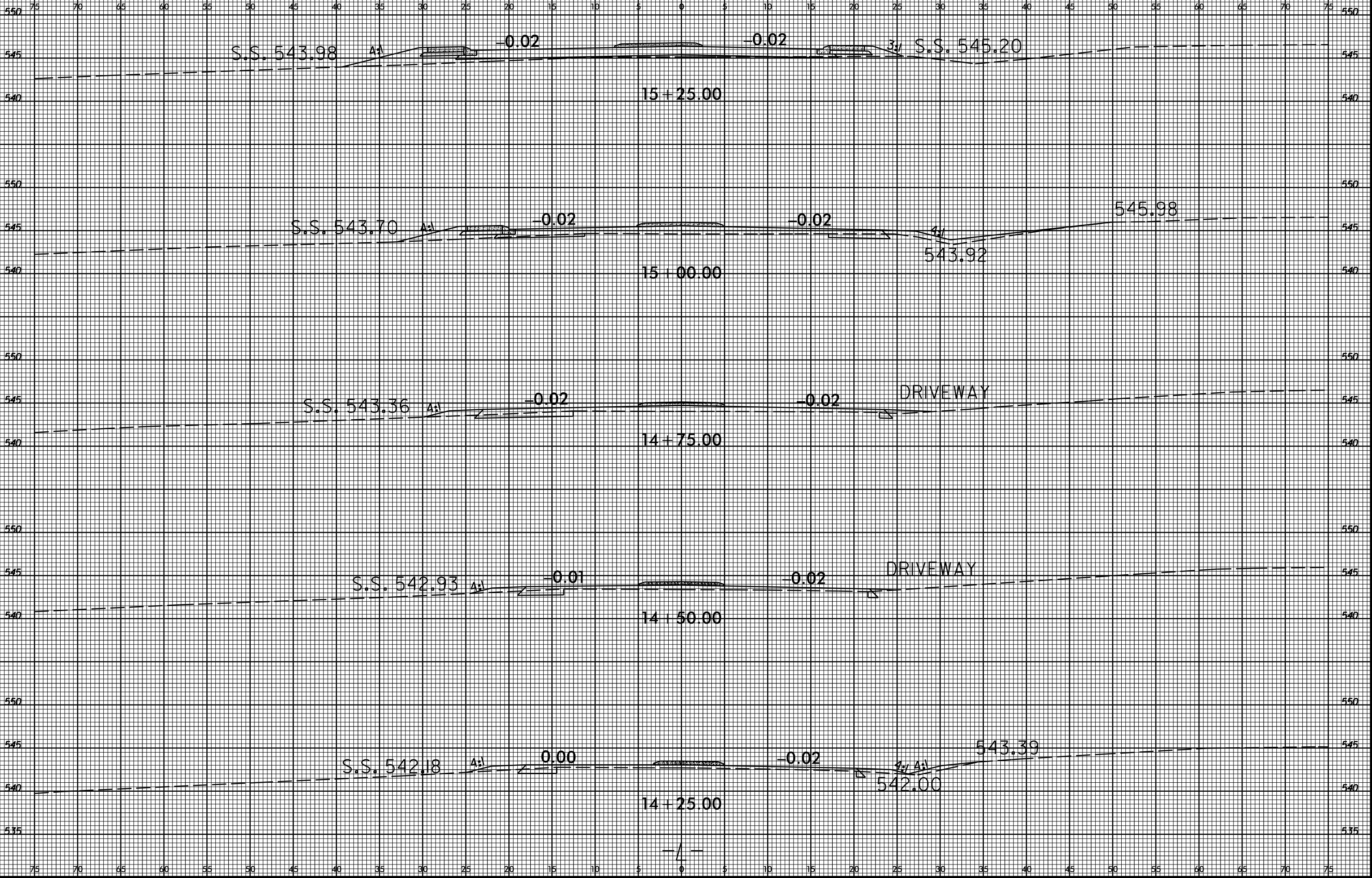


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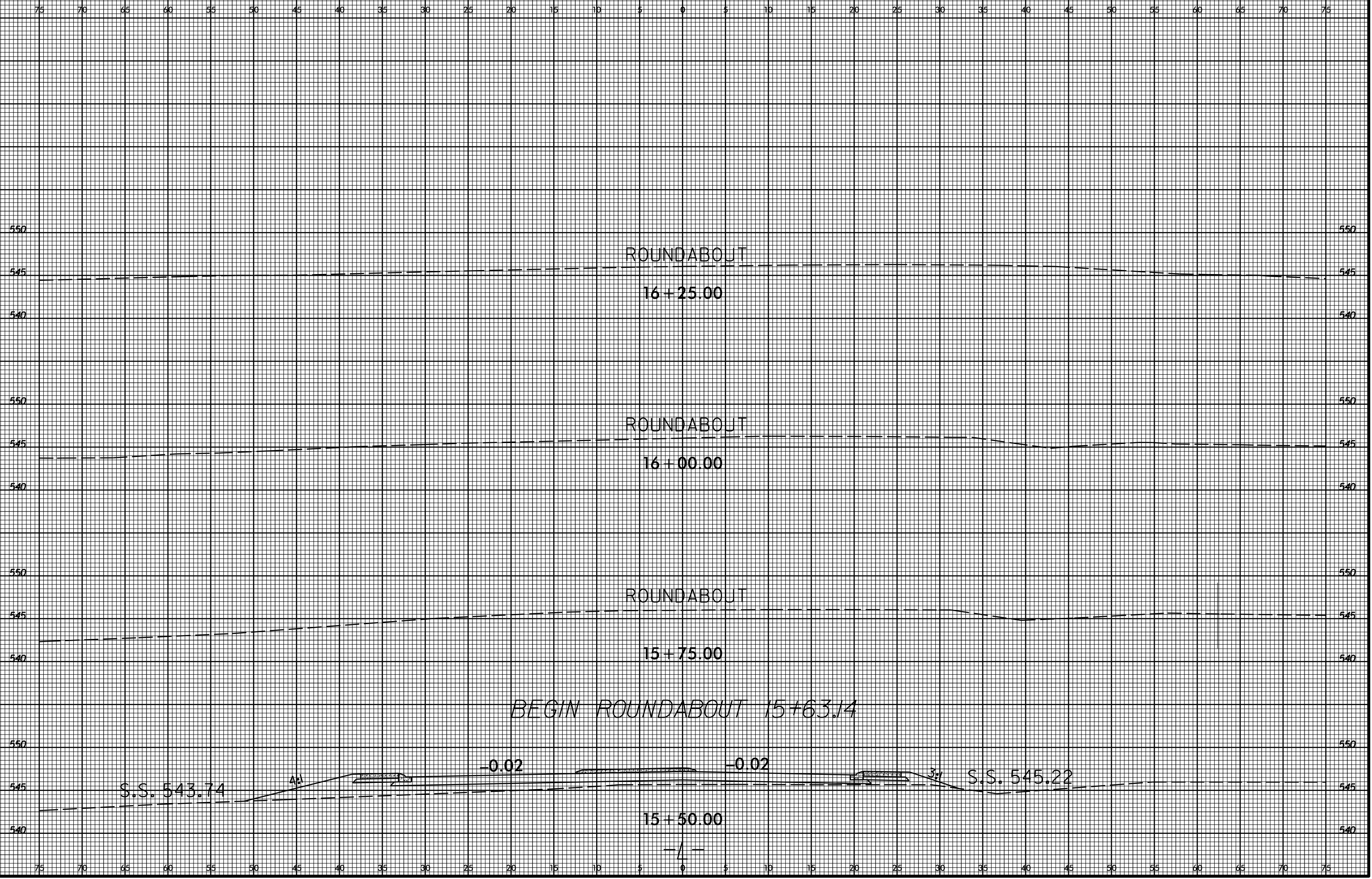


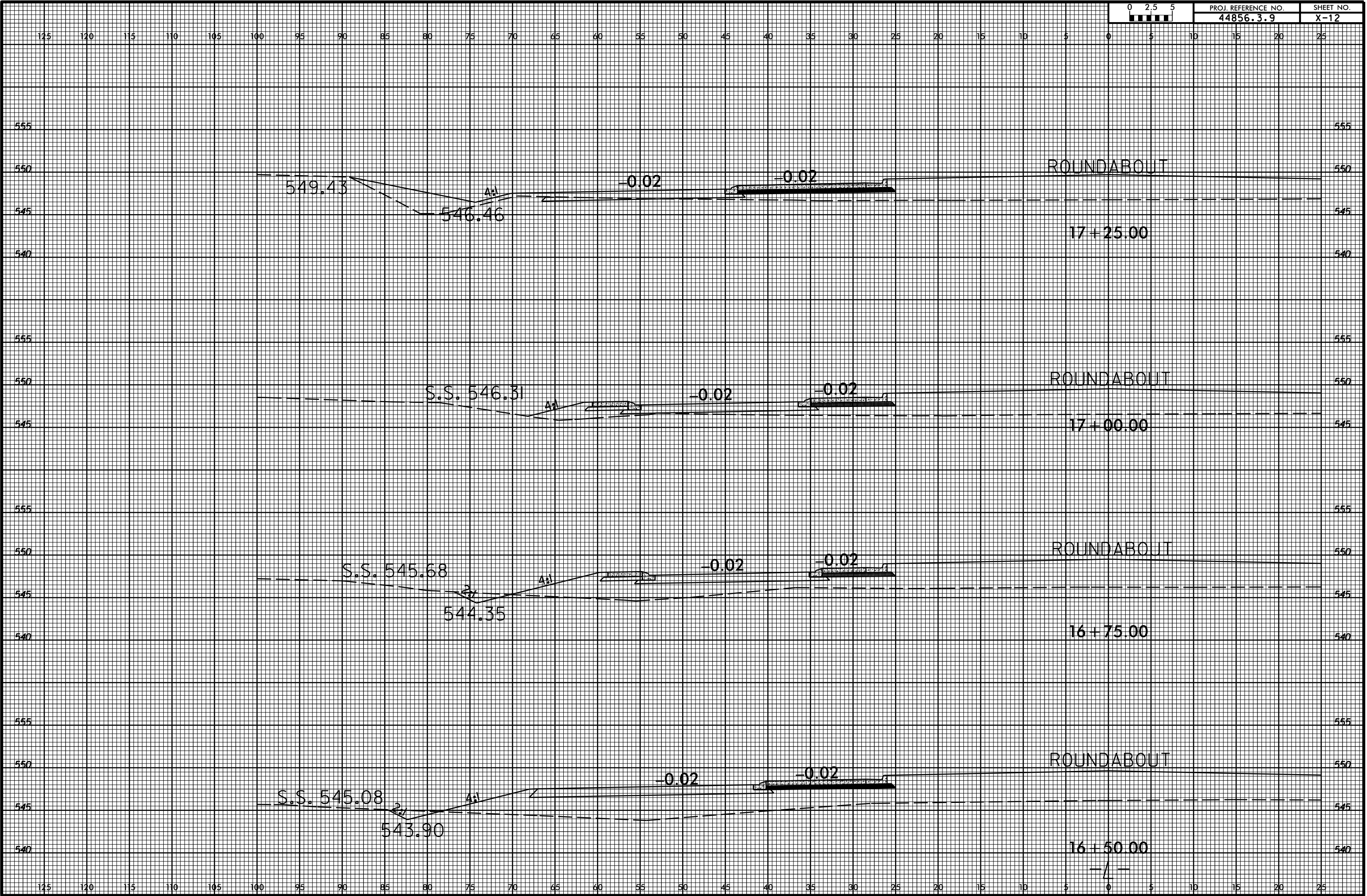
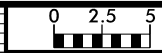


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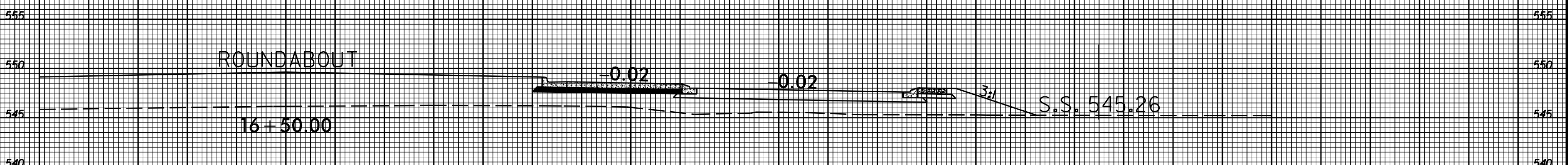
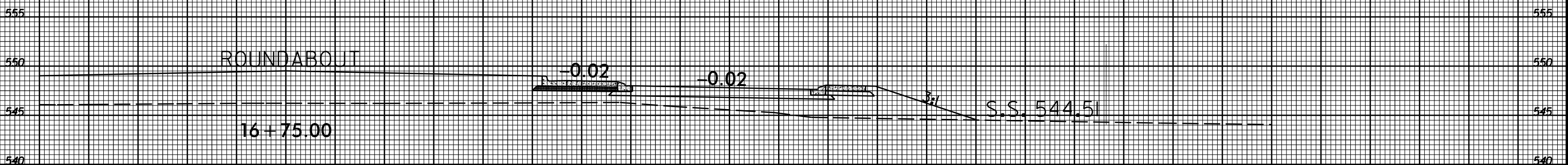
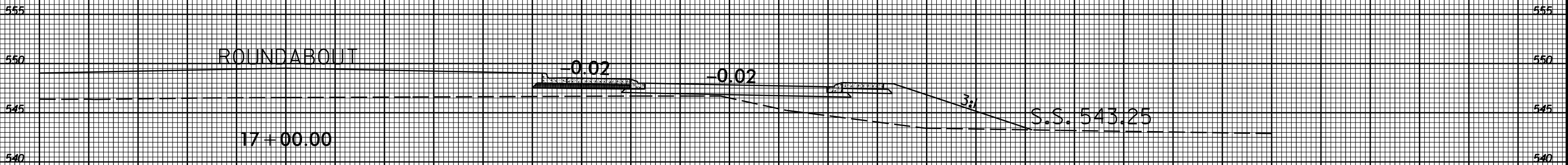
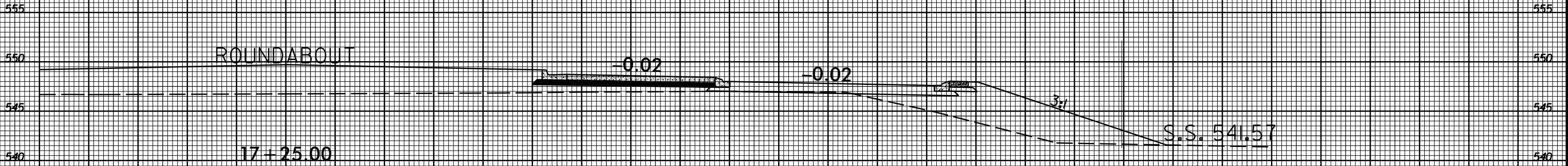


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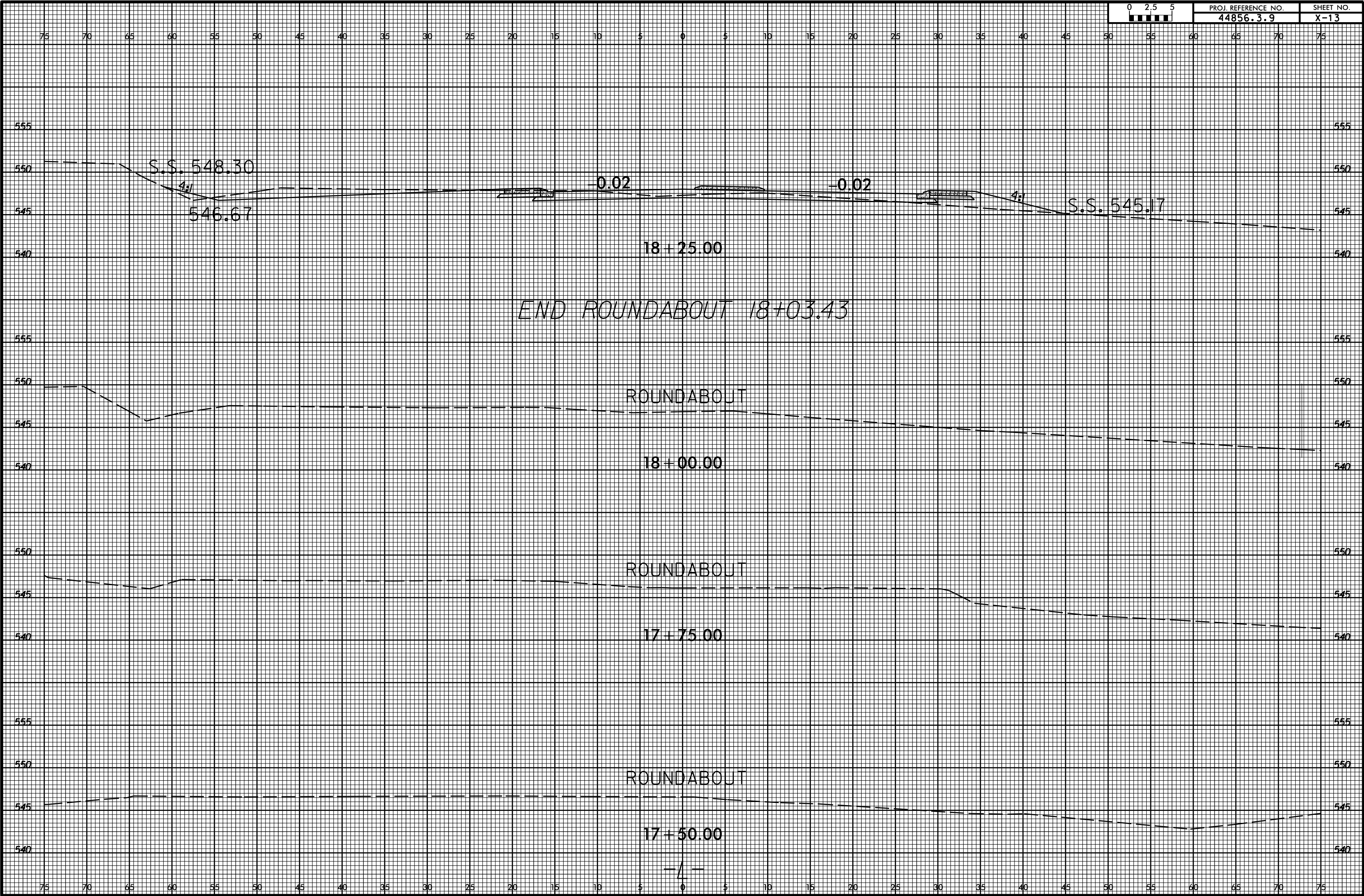


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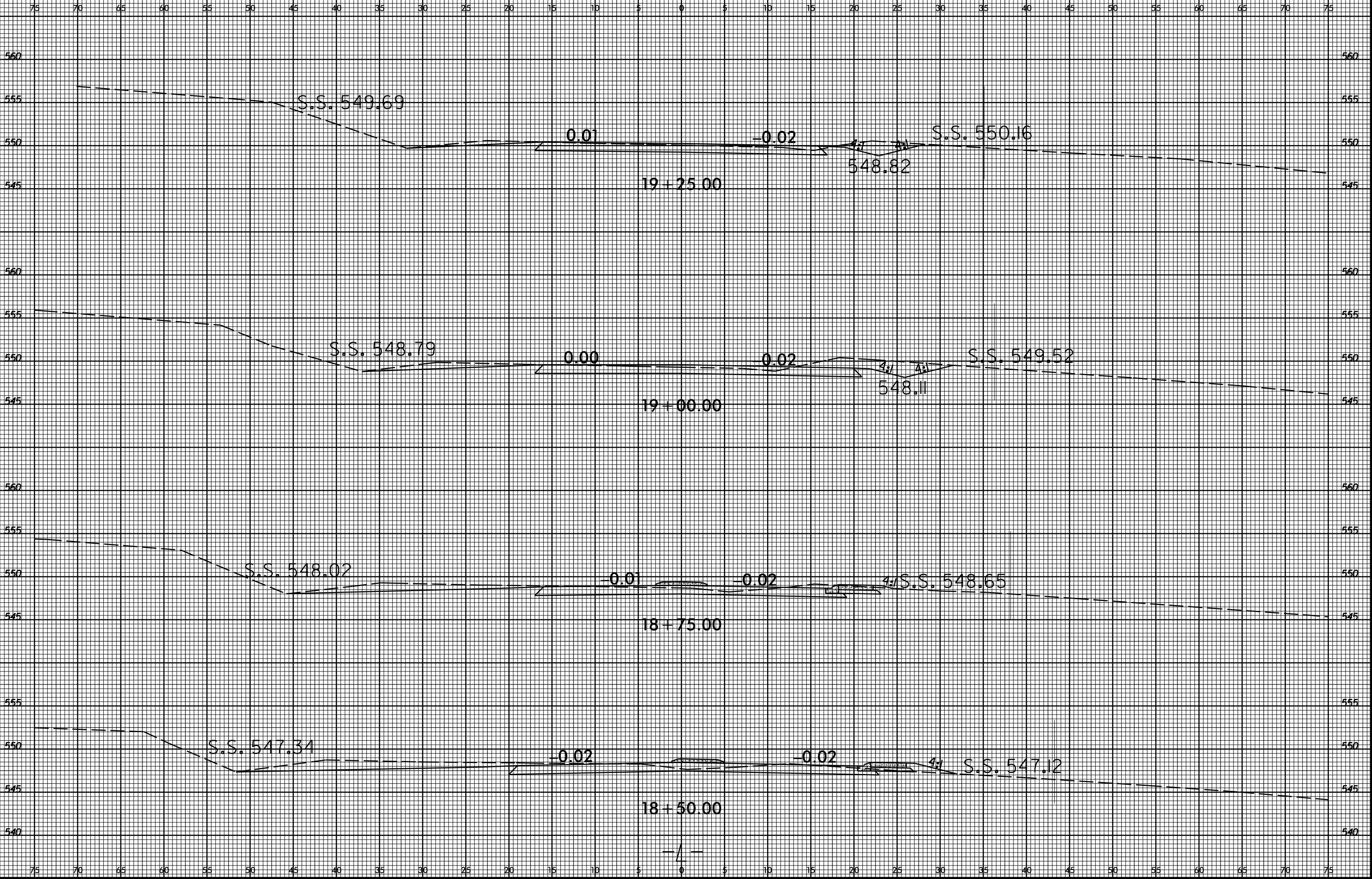


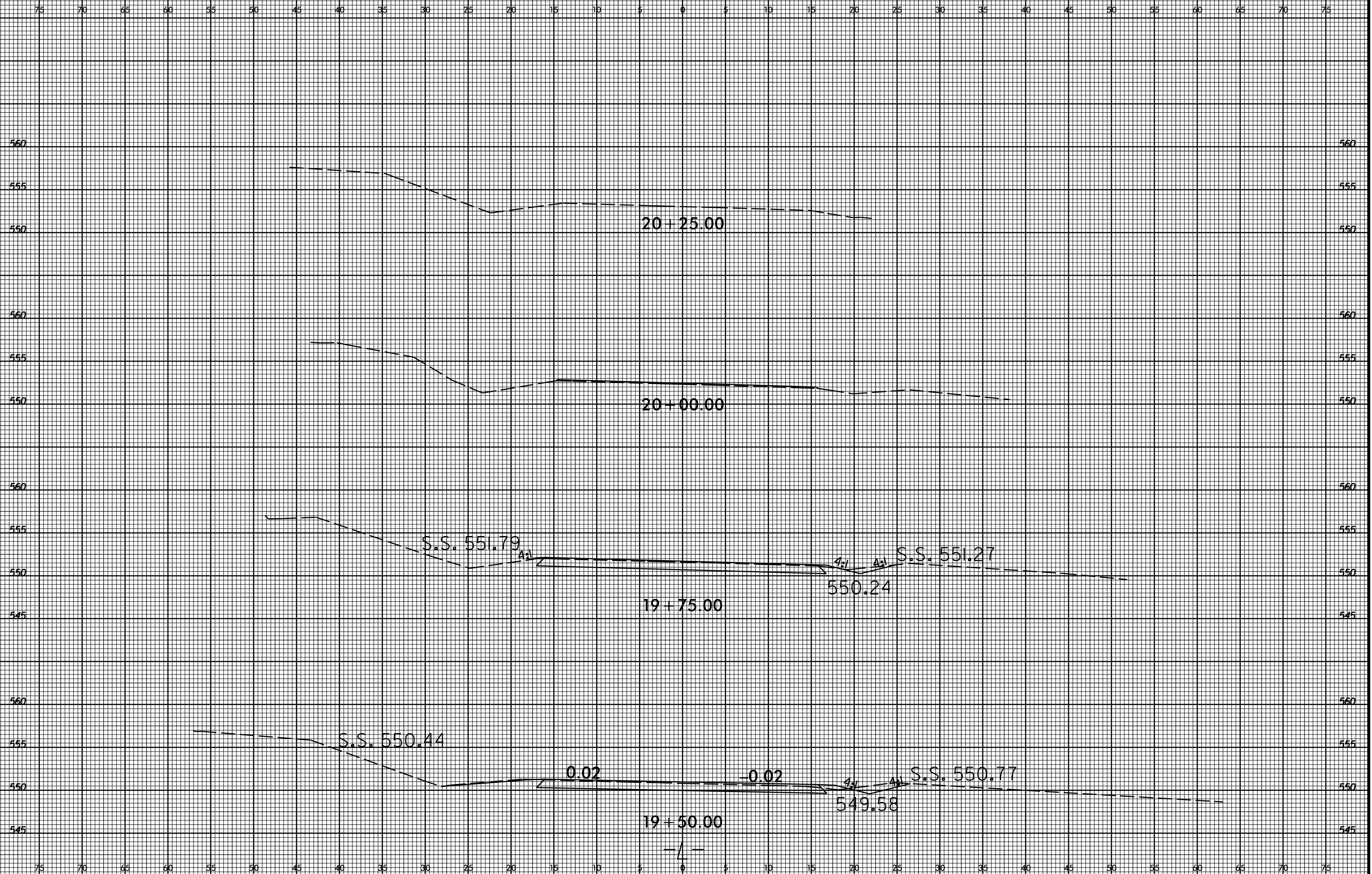
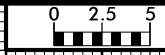
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20 + 25.00

20 + 00.00

19 + 75.00

19 + 50.00

S.S. 551.79

S.S. 551.27

S.S. 550.44

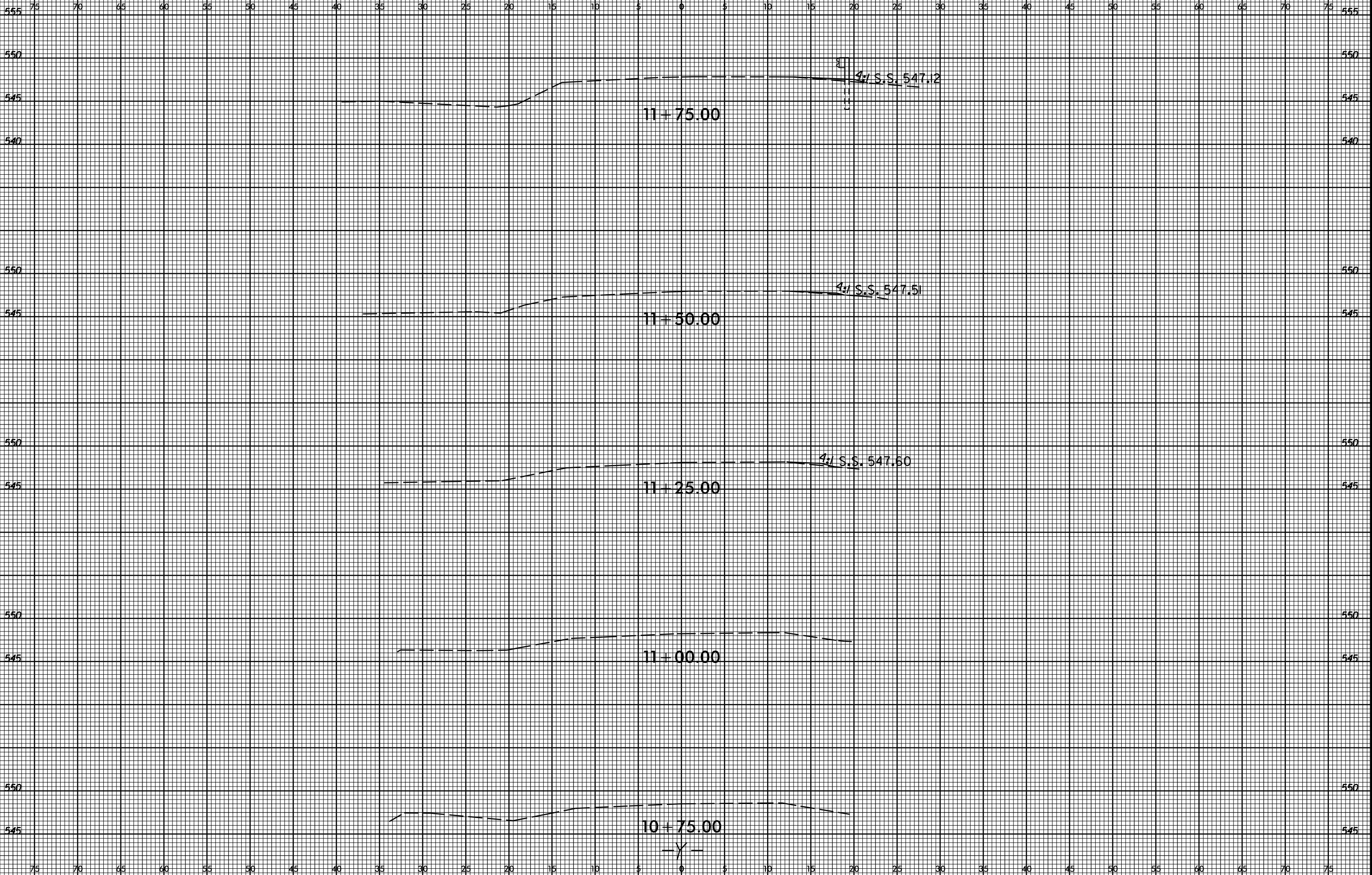
S.S. 550.77

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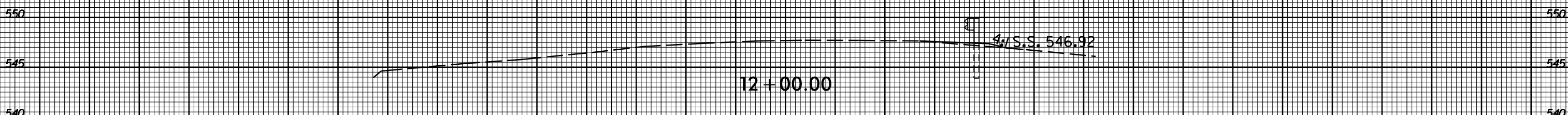
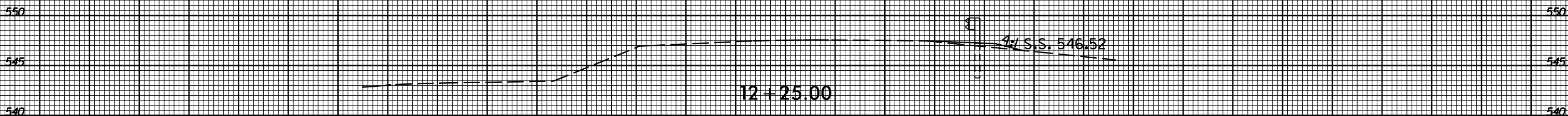
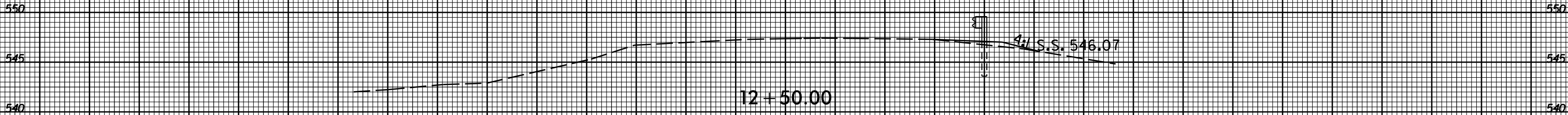
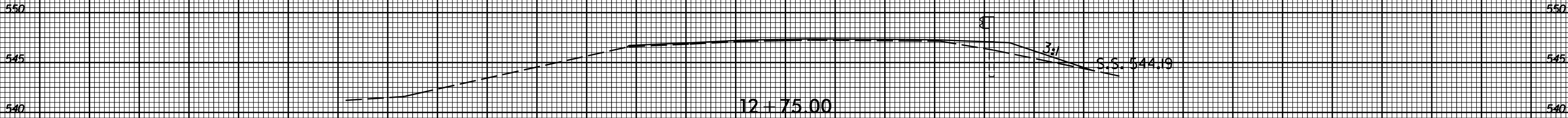
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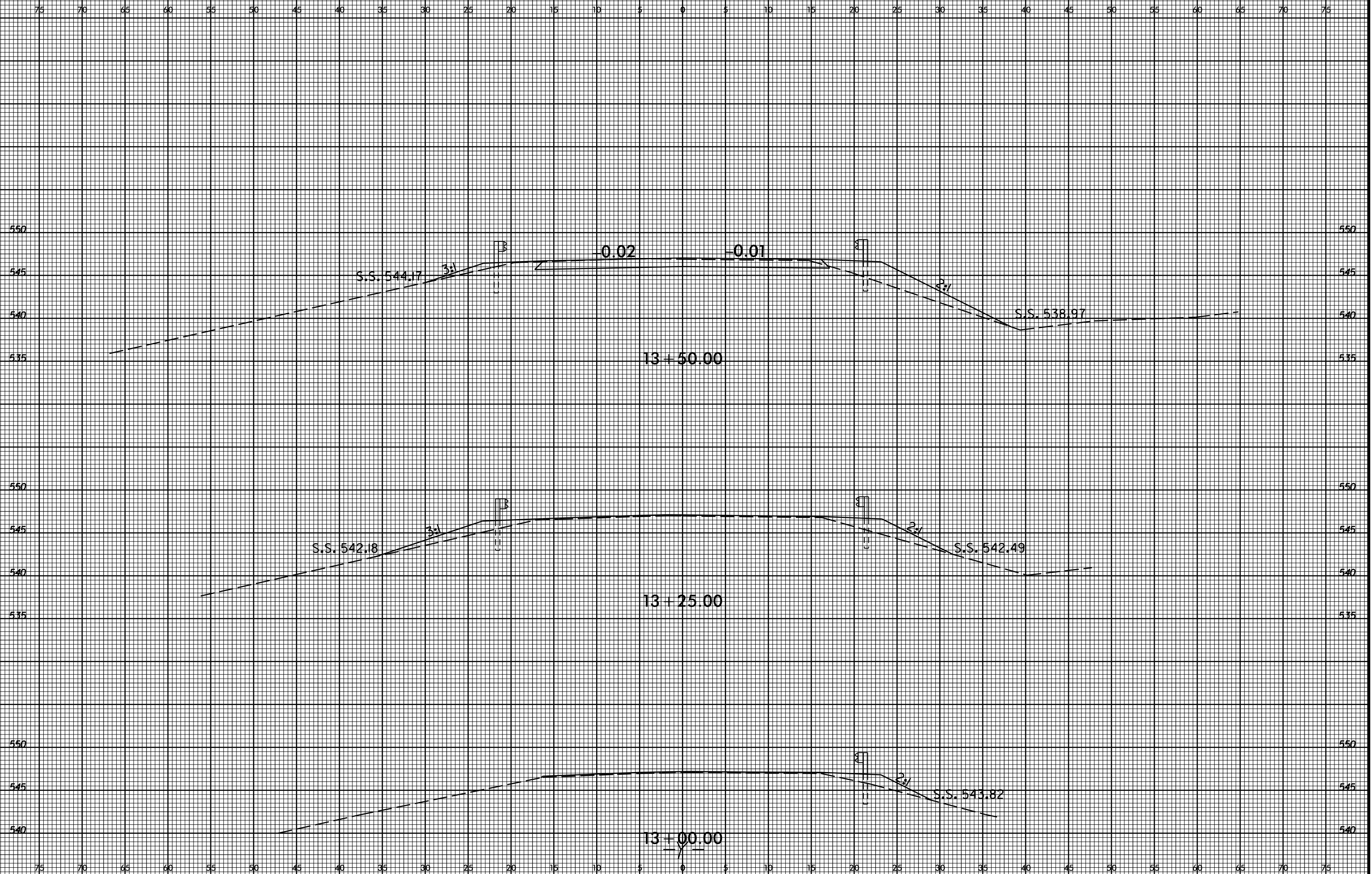
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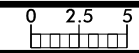
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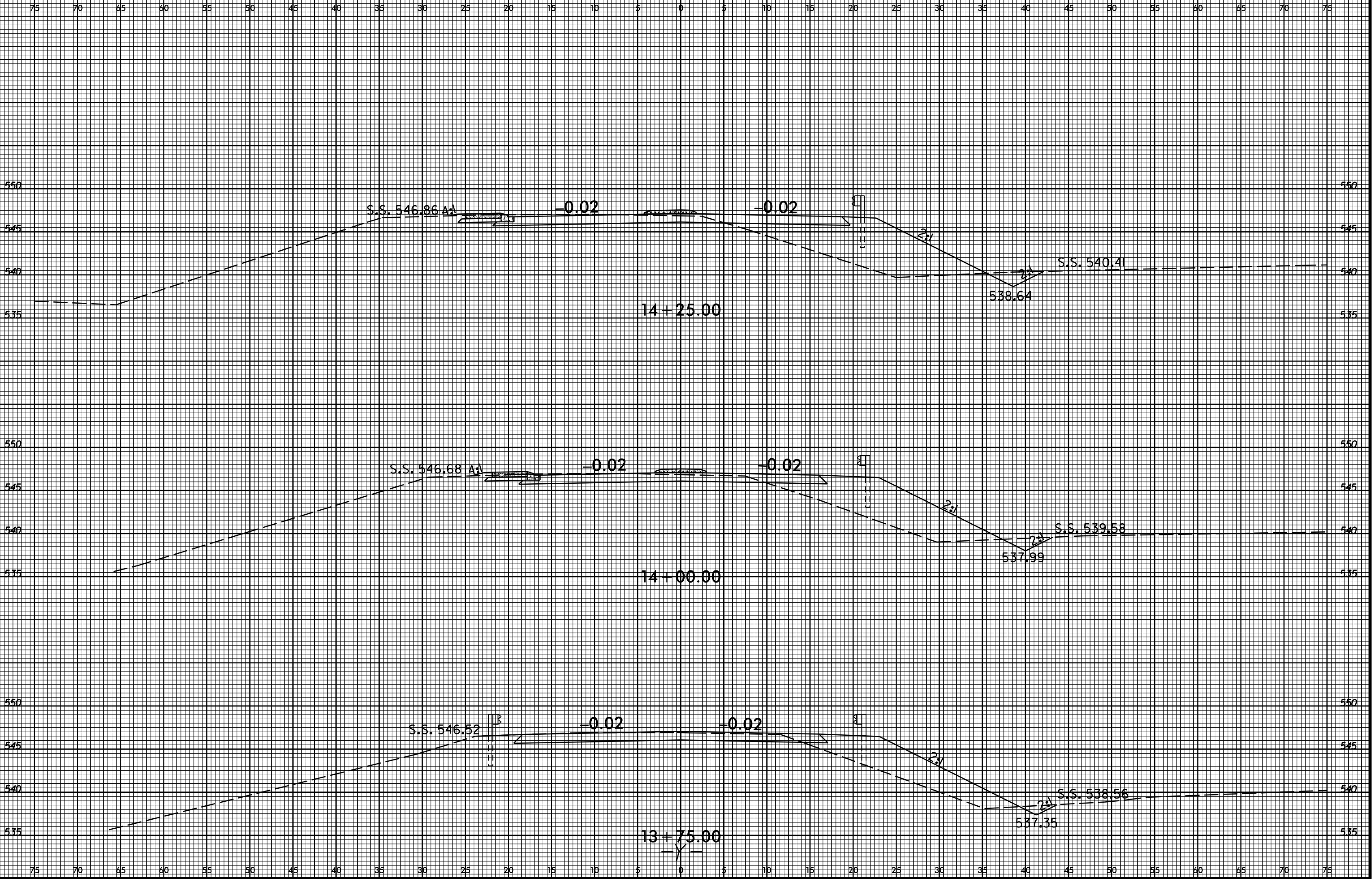


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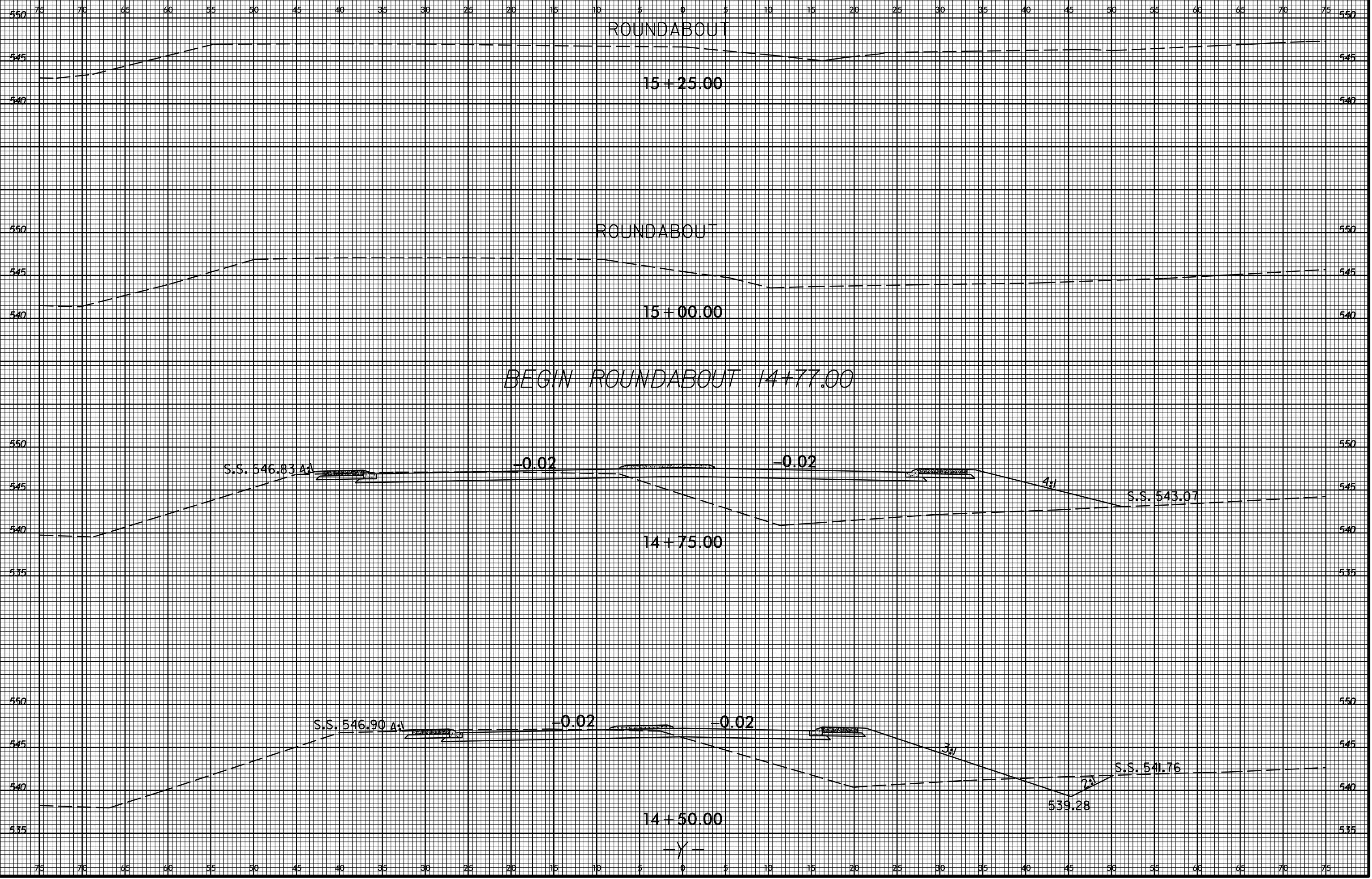


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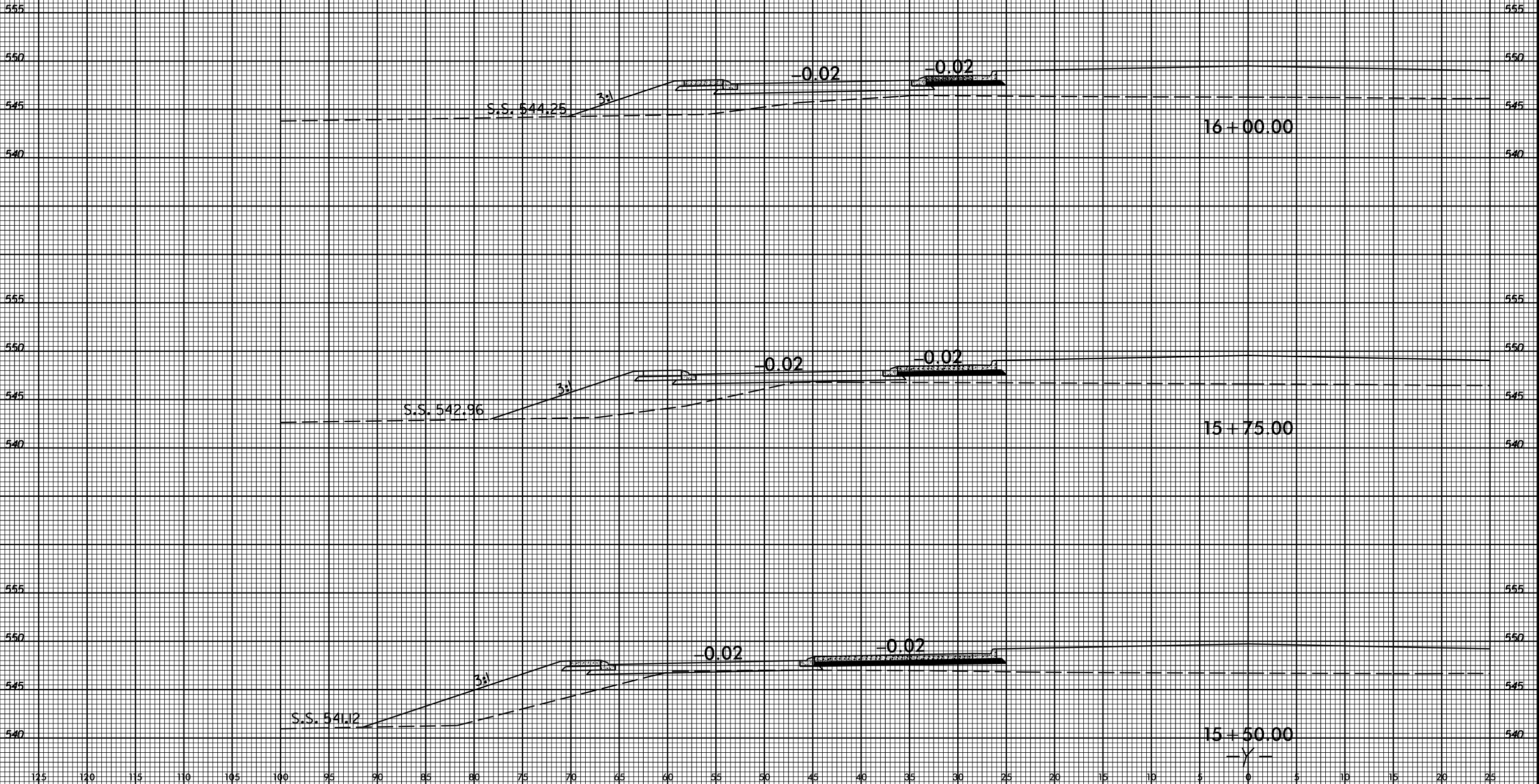
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X-19



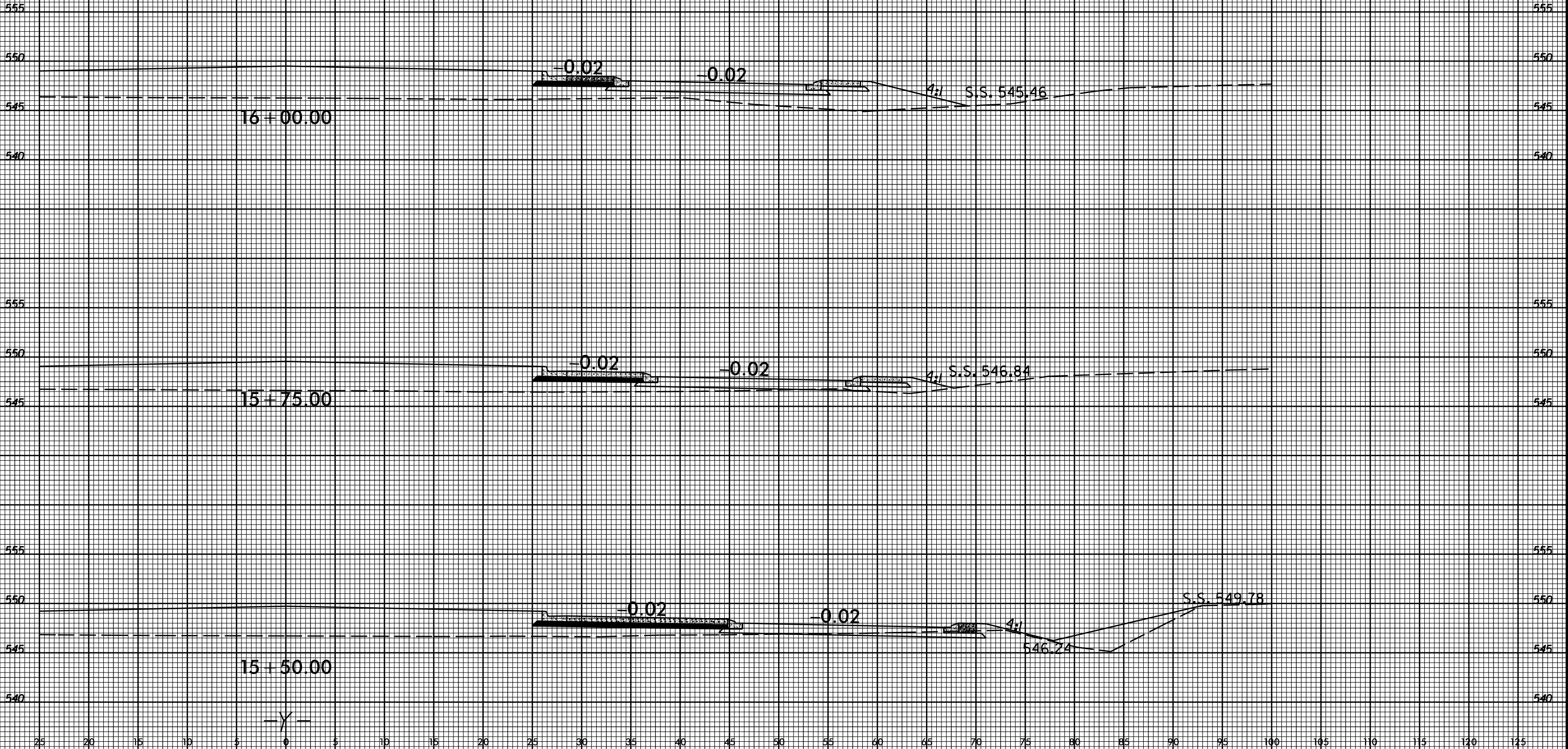
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125 120 115 110 105 100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25



25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125



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6/23/16

0 2.5 5
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PROJ. REFERENCE NO.
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SHEET NO.
X-22

125 120 115 110 105 100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25

555

555

550

550

545

545

540

540

S.S. 545.60

3%

-0.02

-0.02

16 + 50.00

555

555

550

550

545

545

540

540

S.S. 545.18

3%

-0.02

-0.02

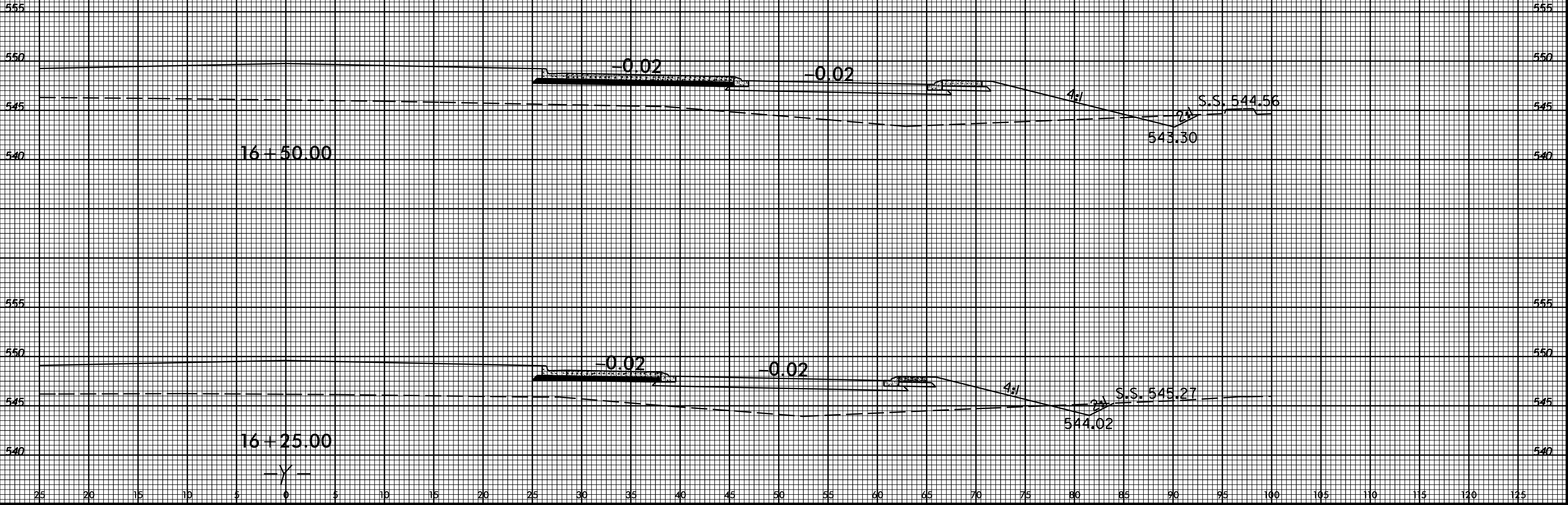
16 + 25.00

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