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See Sheet 1-A For Index of Sheets

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

JOHNSTON COUNTY

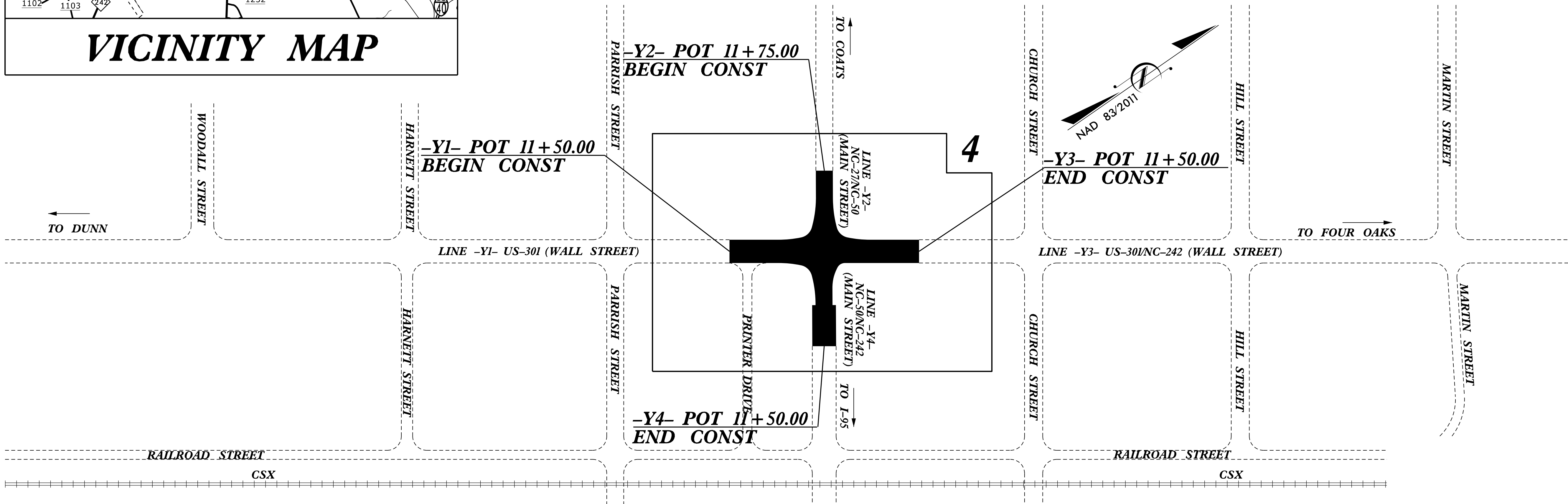
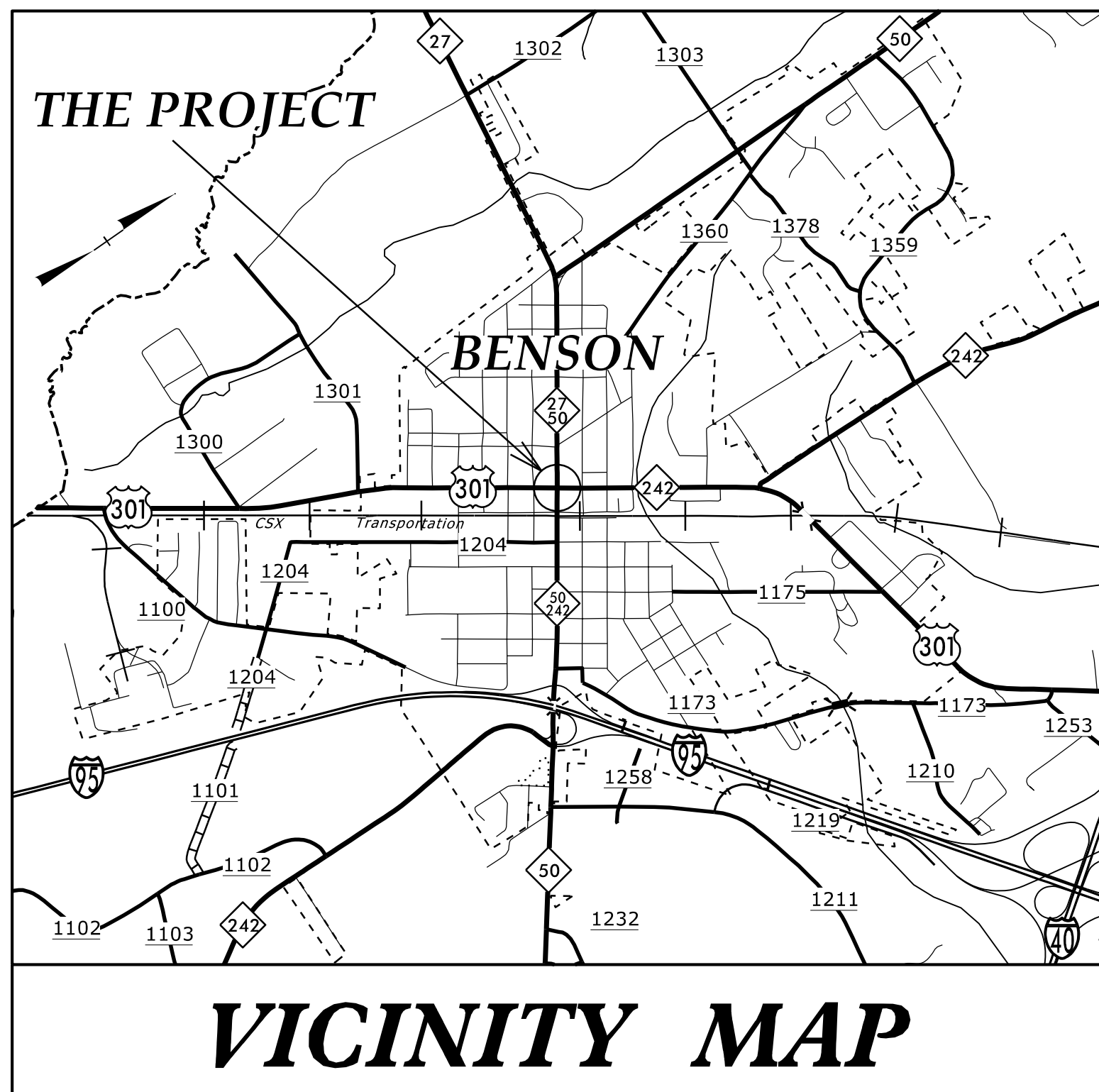
LOCATION: US-301/NC-242 (WALL STREET) AND NC-50/NC-242 (MAIN STREET) INTERSECTION.

TYPE OF WORK: GRADING, DRAINAGE AND PAVING

| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-----------------------------|--------------|--------------|
| N.C. | W-5704H | 1 | |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| 44850.1.8 | HSIP-0301(044) | PE | |
| 44850.2.8 | HSIP-0301(044) | RW & UTILITY | |
| 44850.3.8 | HSIP-0301(044) | CONST | |

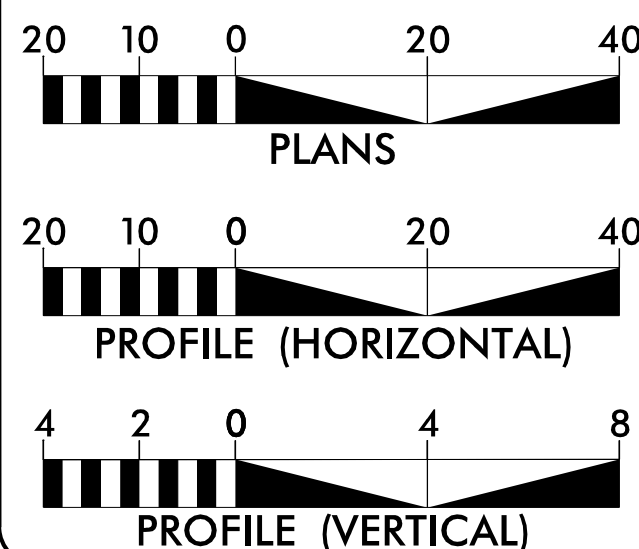
TIP PROJECT: W-5704H

CONTRACT: DD00378



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2016 = 9500

FUNCTIONAL CLASS
MINOR ARTERIAL

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT W-5704H = 0.063 MILES
TOTAL LENGTH TIP PROJECT W-5704H = 0.063 MILES

NOTE: LENGTH -Y1-, -L- & -Y3-

Prepared in the Office of:
DIVISION OF HIGHWAYS
Division 4 DDC
509 Ward Blvd., Wilson NC, 27895

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
MARCH 21, 2019

LETTING DATE:
APRIL 26, 2022

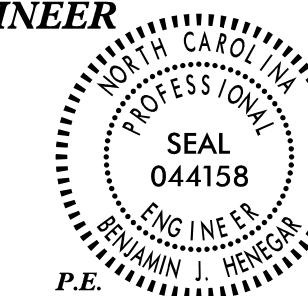
KEVIN BOWEN, PE
PROJECT ENGINEER

D.R. ETHRIDGE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

01/24/2022 | 11:54 AM PST

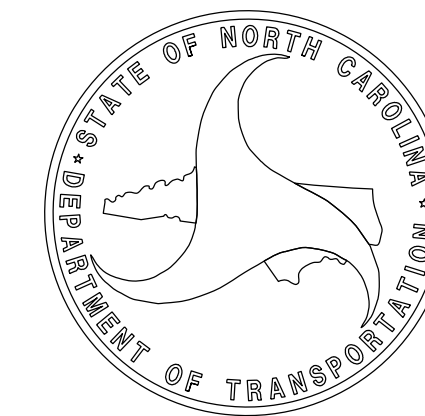
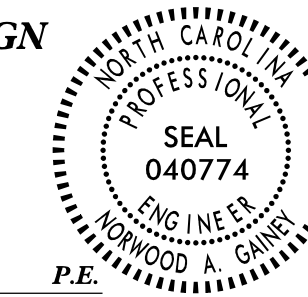
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Benjamin J. Henegar
SIGNATURE:



ROADWAY DESIGN ENGINEER

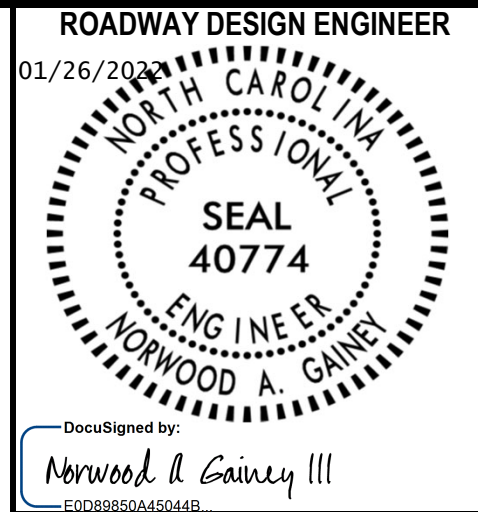
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DocuSigned by:
Norwood A. Gentry III
SIGNATURE:



STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

| | |
|--------------------------------|------------------|
| PROJ. REFERENCE NO. W-5704H | SHEET NO. I-A |
|--------------------------------|------------------|



| SHEET NUMBER | INDEX OF SHEETS SHEET |
|-----------------------|--|
| 01 | TITLE SHEET |
| 01A | INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS |
| 01B | CONVENTIONAL SYMBOLS |
| 02A-1 THRU 02A-2 | PAVEMENT SCHEDULE AND TYPICAL SECTIONS |
| 03B-1 | ROADWAY SUMMARIES - EARTHWORK, PARCEL INDEX, AND REMOVAL OF EXISTING ASPHALT PAVEMENT. |
| 03D-1 | DRAINAGE SUMMARIES |
| 04 | PLAN SHEET |
| 05 | PROFILE SHEET |
| RW02C-1 THRU 1RW02C-3 | SURVEY CONTROL, EXISTING CENTERLINES RIGHT OF WAY, EASEMENTS AND PROPERTY TIES |
| TMP-1 THRU TMP-4 | TRANSPORTATION MANAGEMENT PLANS |
| PM-1 THRU PM-4 | PAVEMENT MARKING PLANS |
| SIGN-1 THRU SIGN-5 | SIGNING PLANS |
| X-1A | CROSS-SECTION SUMMARY |
| X-1 THRU X-17 | CROSS-SECTIONS |

2018 ROADWAY ENGLISH STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" HIGHWAY DESIGN BRANCH - 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:

- DIVISION 2 - EARTHWORK
 - 200.02 METHOD OF CLEARING - METHOD II
 - 225.02 GUIDE FOR GRADING SUBGRADE - SECONDARY AND LOCAL
- DIVISION 3 - PIPE CULVERTS
 - 300.01 METHOD OF PIPE INSTALLATION
- DIVISION 8 - INCIDENTALS
 - 840.00 CONCRETE BASE PAD FOR DRAINAGE STRUCTURES
 - 840.01 BRICK CATCH BASIN - 12" THRU 54" PIPE
 - 840.02 CONCRETE CATCH BASIN - 12" THRU 54" PIPE
 - 840.03 FRAME, GRATES AND HOOD - FOR USE ON STANDARD CATCH BASIN
 - 840.25 ANCHORAGE FOR FRAMES - BRICK OR CONCRETE OR PRECAST
 - 840.29 FRAMES AND NARROW SLOT FLAT GRATES
 - 840.34 TRAFFIC BEARING JUNCTION BOX - FOR USE WITH PIPES 42" AND UNDER
 - 840.35 TRAFFIC BEARING GRATED DROP INLET - FOR CAST IRON DOUBLE FRAME AND GRATES
 - 840.45 PRECAST DRAINAGE STRUCTURE
 - 840.46 TRAFFIC BEARING PRECAST DRAINAGE STRUCTURE
 - 840.54 MANHOLE FRAME AND COVER
 - 840.66 DRAINAGE STRUCTURE STEPS
 - 840.72 PIPE COLLAR
 - 846.01 CONCRETE CURB, GUTTER AND CURB & GUTTER
 - 848.01 CONCRETE SIDEWALK
 - 848.05 CURB RAMP - PROPOSED CURB & GUTTER
 - 848.06 CURB RAMP - EXISTING CURB & GUTTER
 - 852.02 CONCRETE MOUNTABLE MEDIAN - FOR USE WITH RIGID OR FLEXIBLE PAVEMENT
 - 876.02 GUIDE FOR RIP RAP AT PIPE OUTLETS

GENERAL NOTES: 2018 SPECIFICATIONS

- GRADE LINE:**
- GRADING AND SURFACING OR RESURFACING AND WIDENING:**
 - THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.
- CLEARING:**
 - CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.
- SIDE ROADS:**
 - THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.
- TEMPORARY SHORING:**
 - SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.
- SUBSURFACE PLANS:**
 - NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.
- UTILITIES:**
 - UTILITY OWNERS ON THIS PROJECT ARE:
PIEDMONT NATURAL GAS, SPECTRUM, CENTURYLINK AND TOWN OF BENSON (POWER).
- ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.
- RIGHT-OF-WAY MARKERS:**
 - ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

| | |
|---------------------------------------|-----------|
| State Line | ----- |
| County Line | ----- |
| Township Line | ----- |
| City Line | ----- |
| Reservation Line | ----- |
| Property Line | ----- |
| Existing Iron Pin | ○ EIP |
| Computed Property Corner | ----- |
| Property Monument | □ EDM |
| Parcel/Sequence Number | ⑫③ |
| Existing Fence Line | -x-x-x- |
| Proposed Woven Wire Fence | ○ |
| Proposed Chain Link Fence | □ |
| Proposed Barbed Wire Fence | ◇ |
| Existing Wetland Boundary | ----- WLB |
| Proposed Wetland Boundary | ----- WLB |
| Existing Endangered Animal Boundary | ----- EAB |
| Existing Endangered Plant Boundary | ----- EPB |
| Existing Historic Property Boundary | ----- HPB |
| Known Contamination Area: Soil | ☠-s-☠ |
| Potential Contamination Area: Soil | ??-s-?? |
| Known Contamination Area: Water | ☠-w-☠ |
| Potential Contamination Area: Water | ??-w-?? |
| Contaminated Site: Known or Potential | ☠?? |

BUILDINGS AND OTHER CULTURE:

| | |
|-------------------------------|-----|
| Gas Pump Vent or U/G Tank Cap | ○ |
| Sign | ○ |
| Well | ○ W |
| Small Mine | ✕ |
| Foundation | □ |
| Area Outline | □ |
| Cemetery | □ |
| Building | □ |
| School | □ |
| Church | □ |
| Dam | □ |

HYDROLOGY:

| | |
|------------------------------------|------------|
| Stream or Body of Water | ----- |
| Hydro, Pool or Reservoir | ----- |
| Jurisdictional Stream | ----- JS |
| Buffer Zone 1 | ----- BZ 1 |
| Buffer Zone 2 | ----- BZ 2 |
| Flow Arrow | ← |
| Disappearing Stream | ----- |
| Spring | ○ |
| Wetland | ----- |
| Proposed Lateral, Tail, Head Ditch | ----- |
| False Sump | ----- |

RAILROADS:

| | |
|--------------------|---------------|
| Standard Gauge | ----- |
| RR Signal Milepost | ○ MILEPOST 35 |
| Switch | □ SWITCH |
| RR Abandoned | ----- |
| RR Dismantled | ----- |

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

RIGHT OF WAY & PROJECT CONTROL:

| | |
|--|-------------|
| Secondary Horiz and Vert Control Point | ◆ |
| Primary Horiz Control Point | ○ |
| Primary Horiz and Vert Control Point | ◆ |
| Exist Permanent Easement Pin and Cap | ◇ |
| New Permanent Easement Pin and Cap | ◆ |
| Vertical Benchmark | ⊠ |
| Existing Right of Way Marker | △ |
| Existing Right of Way Line | ----- |
| New Right of Way Line | ----- R/W |
| New Right of Way Line with Pin and Cap | ----- R/W ▲ |
| New Right of Way Line with Concrete or Granite RW Marker | ----- R/W |
| New Control of Access Line with Concrete CA Marker | ----- C/A |
| Existing Control of Access | ----- |
| New Control of Access | ----- |
| Existing Easement Line | ----- E |
| New Temporary Construction Easement | ----- E |
| New Temporary Drainage Easement | ----- TDE |
| New Permanent Drainage Easement | ----- PDE |
| New Permanent Drainage / Utility Easement | ----- DUE |
| New Permanent Utility Easement | ----- PUE |
| New Temporary Utility Easement | ----- TUE |
| New Aerial Utility Easement | ----- AUE |

ROADS AND RELATED FEATURES:

| | |
|----------------------------|----------|
| Existing Edge of Pavement | ----- |
| Existing Curb | ----- |
| Proposed Slope Stakes Cut | ----- C |
| Proposed Slope Stakes Fill | ----- F |
| Proposed Curb Ramp | ----- CR |
| Existing Metal Guardrail | ----- |
| Proposed Guardrail | ----- |
| Existing Cable Guiderail | ----- |
| Proposed Cable Guiderail | ----- |
| Equality Symbol | ⊕ |
| Pavement Removal | ----- |

VEGETATION:

| | |
|--------------|---|
| Single Tree | ☼ |
| Single Shrub | ☼ |

| | |
|------------|----------------|
| Hedge | ----- |
| Woods Line | ----- |
| Orchard | ----- |
| Vineyard | ----- Vineyard |

EXISTING STRUCTURES:

| | |
|--|---------------|
| MAJOR: | |
| Bridge, Tunnel or Box Culvert | ----- CONC |
| Bridge Wing Wall, Head Wall and End Wall | ----- CONC WW |
| MINOR: | |
| Head and End Wall | ----- CONC HW |
| Pipe Culvert | ----- |
| Footbridge | ----- |
| Drainage Box: Catch Basin, DI or JB | □ CB |
| Paved Ditch Gutter | ----- |
| Storm Sewer Manhole | ⊙ |
| Storm Sewer | ----- S |

UTILITIES:

| | |
|--------------------------------|---------|
| POWER: | |
| Existing Power Pole | ● |
| Proposed Power Pole | ○ |
| Existing Joint Use Pole | ● |
| Proposed Joint Use Pole | ○ |
| Power Manhole | ⊙ |
| Power Line Tower | ⊠ |
| Power Transformer | ⊠ |
| U/G Power Cable Hand Hole | ----- |
| H-Frame Pole | ● |
| U/G Power Line LOS B (S.U.E.*) | ----- P |
| U/G Power Line LOS C (S.U.E.*) | ----- P |
| U/G Power Line LOS D (S.U.E.*) | ----- P |

TELEPHONE:

| | |
|--|------------|
| Existing Telephone Pole | ● |
| Proposed Telephone Pole | ○ |
| Telephone Manhole | ⊙ |
| Telephone Pedestal | ⊠ |
| Telephone Cell Tower | ⊠ |
| U/G Telephone Cable Hand Hole | ----- |
| U/G Telephone Cable LOS B (S.U.E.*) | ----- T |
| U/G Telephone Cable LOS C (S.U.E.*) | ----- T |
| U/G Telephone Cable LOS D (S.U.E.*) | ----- T |
| U/G Telephone Conduit LOS B (S.U.E.*) | ----- TC |
| U/G Telephone Conduit LOS C (S.U.E.*) | ----- TC |
| U/G Telephone Conduit LOS D (S.U.E.*) | ----- TC |
| U/G Fiber Optics Cable LOS B (S.U.E.*) | ----- T FO |
| U/G Fiber Optics Cable LOS C (S.U.E.*) | ----- T FO |
| U/G Fiber Optics Cable LOS D (S.U.E.*) | ----- T FO |

WATER:

| | |
|--------------------------------|-----------------|
| Water Manhole | ⊙ |
| Water Meter | ○ |
| Water Valve | ⊗ |
| Water Hydrant | ⊕ |
| U/G Water Line LOS B (S.U.E.*) | ----- W |
| U/G Water Line LOS C (S.U.E.*) | ----- W |
| U/G Water Line LOS D (S.U.E.*) | ----- W |
| Above Ground Water Line | ----- A/G Water |

TV:

| | |
|---------------------------------------|-------------|
| TV Pedestal | ⊠ |
| TV Tower | ⊗ |
| U/G TV Cable Hand Hole | ----- |
| U/G TV Cable LOS B (S.U.E.*) | ----- TV |
| U/G TV Cable LOS C (S.U.E.*) | ----- TV |
| U/G TV Cable LOS D (S.U.E.*) | ----- TV |
| U/G Fiber Optic Cable LOS B (S.U.E.*) | ----- TV FO |
| U/G Fiber Optic Cable LOS C (S.U.E.*) | ----- TV FO |
| U/G Fiber Optic Cable LOS D (S.U.E.*) | ----- TV FO |

GAS:

| | |
|------------------------------|---------------|
| Gas Valve | ◇ |
| Gas Meter | ⊕ |
| U/G Gas Line LOS B (S.U.E.*) | ----- G |
| U/G Gas Line LOS C (S.U.E.*) | ----- G |
| U/G Gas Line LOS D (S.U.E.*) | ----- G |
| Above Ground Gas Line | ----- A/G Gas |

SANITARY SEWER:

| | |
|-------------------------------------|--------------------------|
| Sanitary Sewer Manhole | ⊙ |
| Sanitary Sewer Cleanout | ⊕ |
| U/G Sanitary Sewer Line | ----- SS |
| Above Ground Sanitary Sewer | ----- A/G Sanitary Sewer |
| SS Forced Main Line LOS B (S.U.E.*) | ----- FSS |
| SS Forced Main Line LOS C (S.U.E.*) | ----- FSS |
| SS Forced Main Line LOS D (S.U.E.*) | ----- FSS |

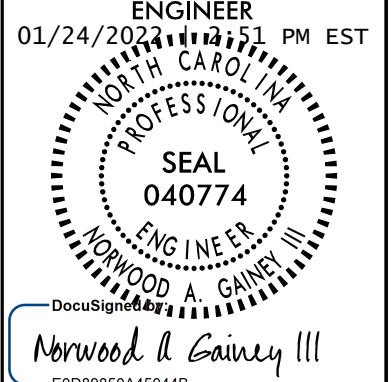
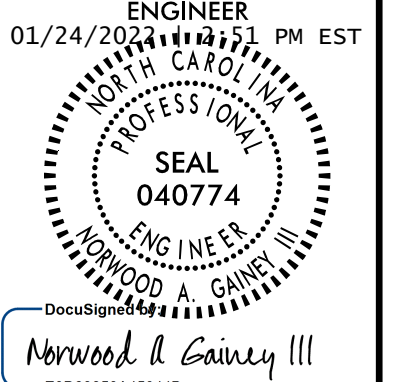
MISCELLANEOUS:

| | |
|--|------------|
| Utility Pole | ● |
| Utility Pole with Base | ⊠ |
| Utility Located Object | ○ |
| Utility Traffic Signal Box | ⊠ |
| Utility Unknown U/G Line LOS B (S.U.E.*) | ----- 7UTL |
| U/G Tank; Water, Gas, Oil | ----- |
| Underground Storage Tank, Approx. Loc. | ⊠ UST |
| A/G Tank; Water, Gas, Oil | ----- |
| Geoenvironmental Boring | ⊕ |
| U/G Test Hole LOS A (S.U.E.*) | ⊕ |
| Abandoned According to Utility Records | AATUR |
| End of Information | E.O.I. |

PAVEMENT SCHEDULE

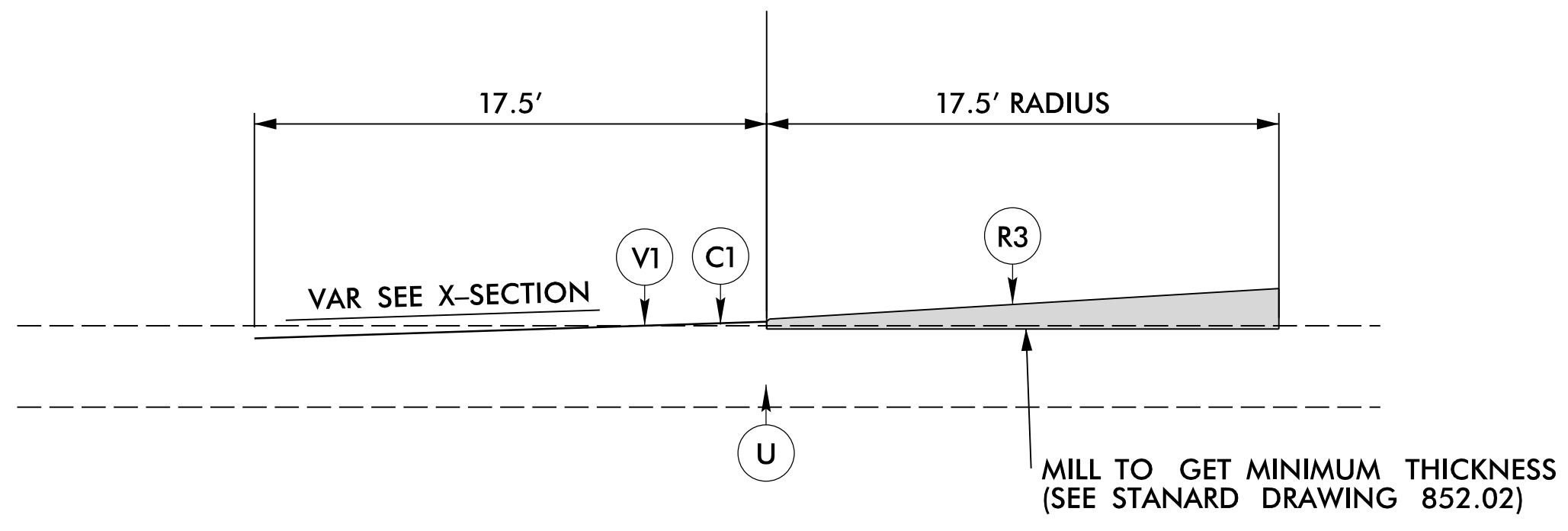
| | | | | | |
|----|--|----|---|----|---|
| C1 | PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD. | E1 | PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YARD. | T1 | EARTH MATERIAL. |
| C2 | PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD. IN EACH OF TWO LAYERS. | E2 | PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5.5" IN DEPTH. | U1 | EXISTING PAVEMENT. |
| C3 | PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YARD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 1.5" DEPTH. | R1 | 2'-6" CONCRETE CURB AND GUTTER. | V1 | VAR. 0"-3" MILLING |
| D1 | PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YARD. | R2 | 2'-0" CONCRETE VALLEY GUTTER | W1 | VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL) |
| D2 | PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" IN DEPTH OR GREATER THAN 4" IN DEPTH. | R3 | CONCRETE MOUNTABLE MEDIAN | | |

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

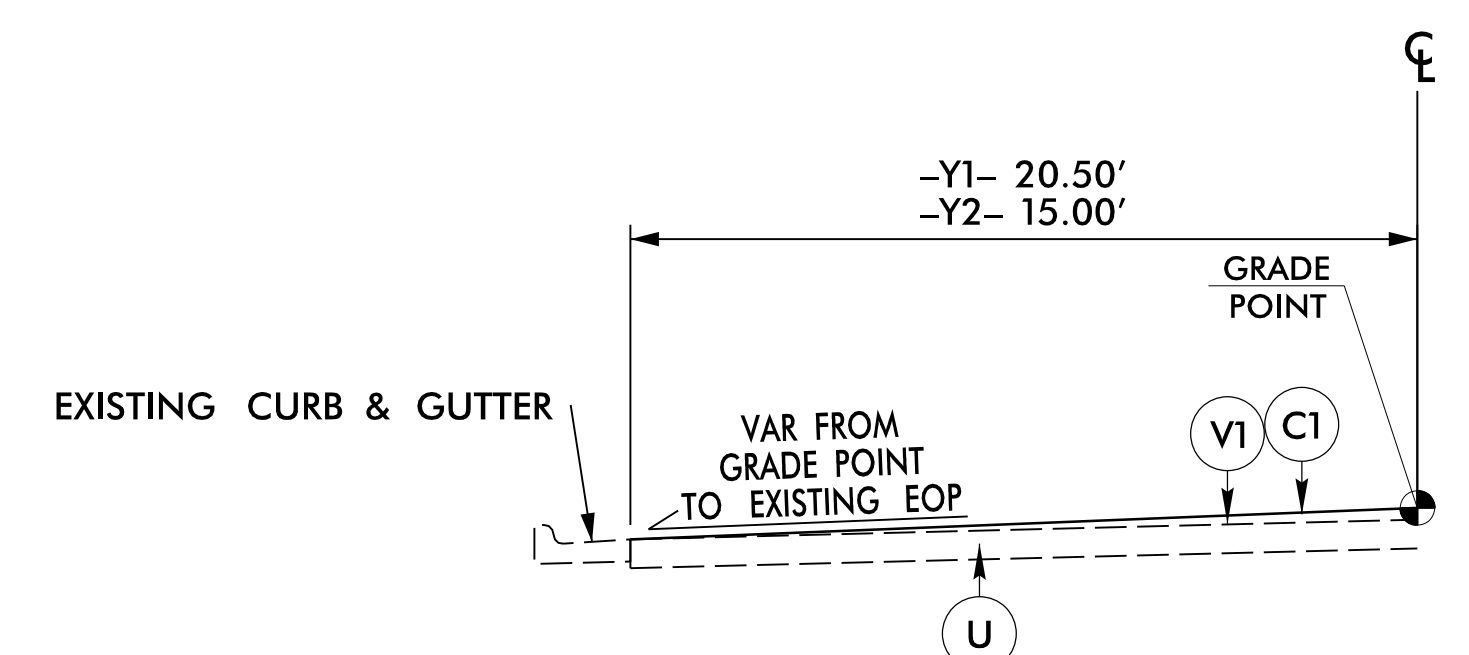
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USE TYPICAL SECTION NO. 1

-L- STA 10+00 TO -L- STA 11+09.96

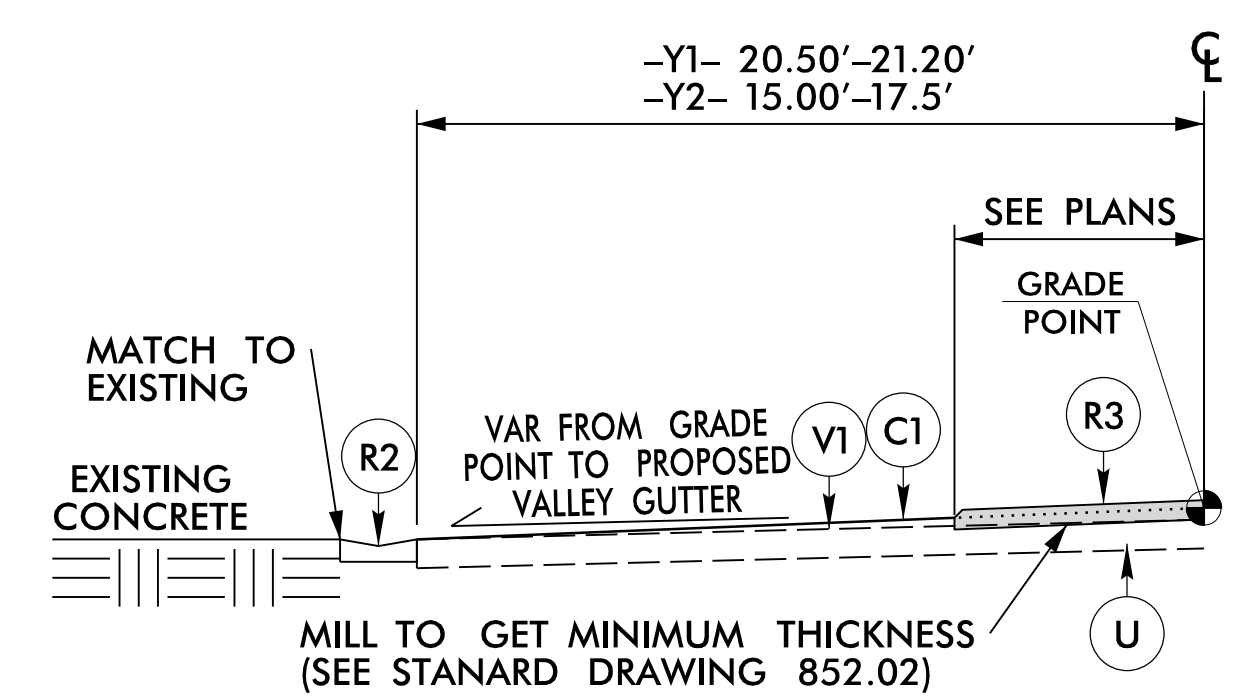


TYPICAL SECTION NO. 1



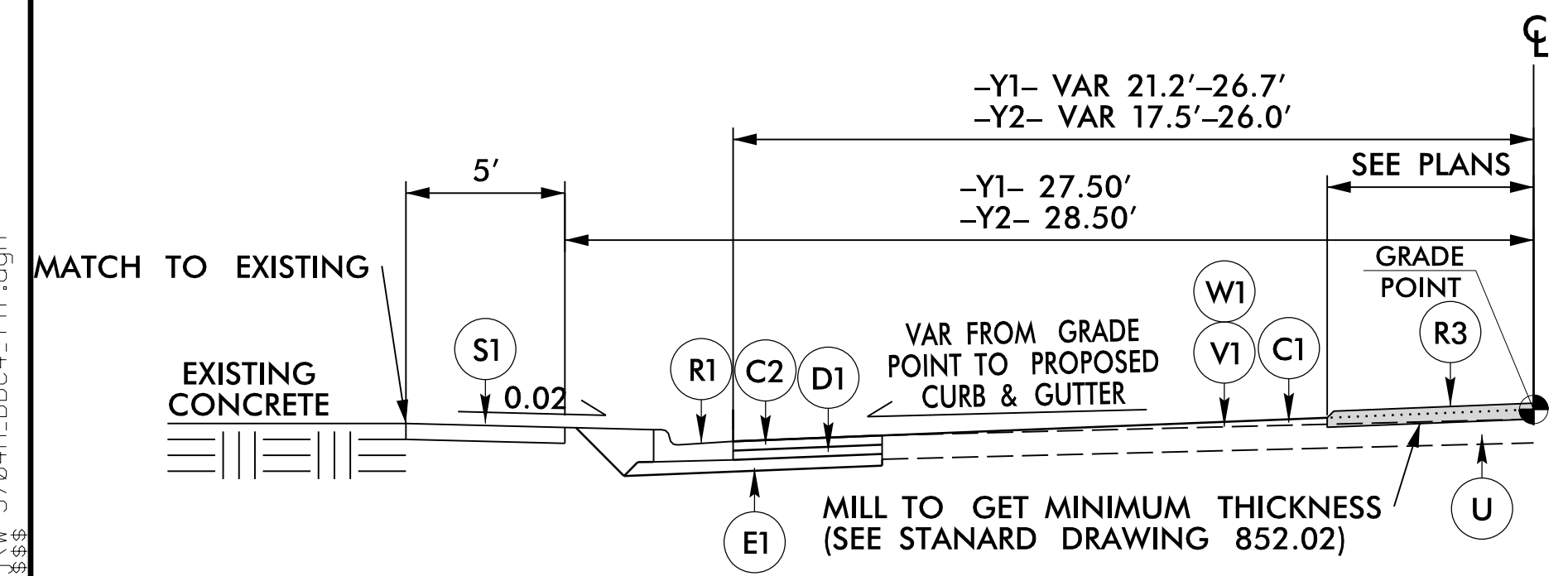
TYPICAL SECTION NO. 2

- Y1- STA. 11+50.00 TO STA. 11+85.00 (LEFT)
- Y1- STA. 11+50.00 TO STA. 12+27.50 (RIGHT, MIRROR IMAGE)
- Y2- STA. 11+75.00 TO STA. 12+20.93 (LEFT), (RIGHT, MIRROR IMAGE)
- Y3- STA. 10+17.50 TO STA. 10+67.50 (RIGHT, MIRROR IMAGE) ADD MOUNTABLE MEDIAN
- Y4- STA. 10+77.50 TO STA. 11+50.00 (LEFT), (RIGHT, MIRROR IMAGE) ADD MOUNTABLE MEDIAN



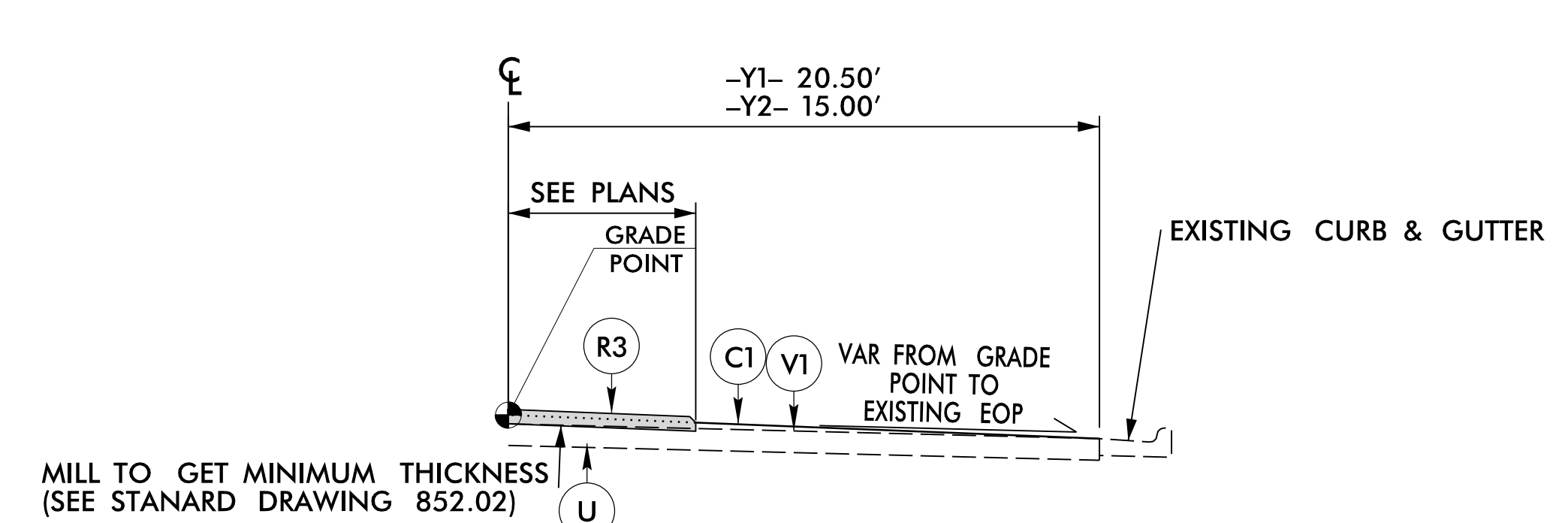
TYPICAL SECTION NO. 3

- Y1- STA. 11+85.00 TO STA. 12+52.50 (LEFT) MOUNTABLE MEDIAN STARTS 12+27.50
- Y2- STA. 12+20.93 TO STA. 12+52.50 (RIGHT, MIRROR IMAGE)



TYPICAL SECTION NO. 4

- Y1- STA. 12+52.50 TO STA. 12+82.50 (LEFT)
- Y2- STA. 12+52.50 TO STA. 12+82.50 (RIGHT, MIRROR IMAGE)
- Y4- STA. 10+17.50 TO STA. 10+77.50 (LEFT, NO NEW SIDEWALK)

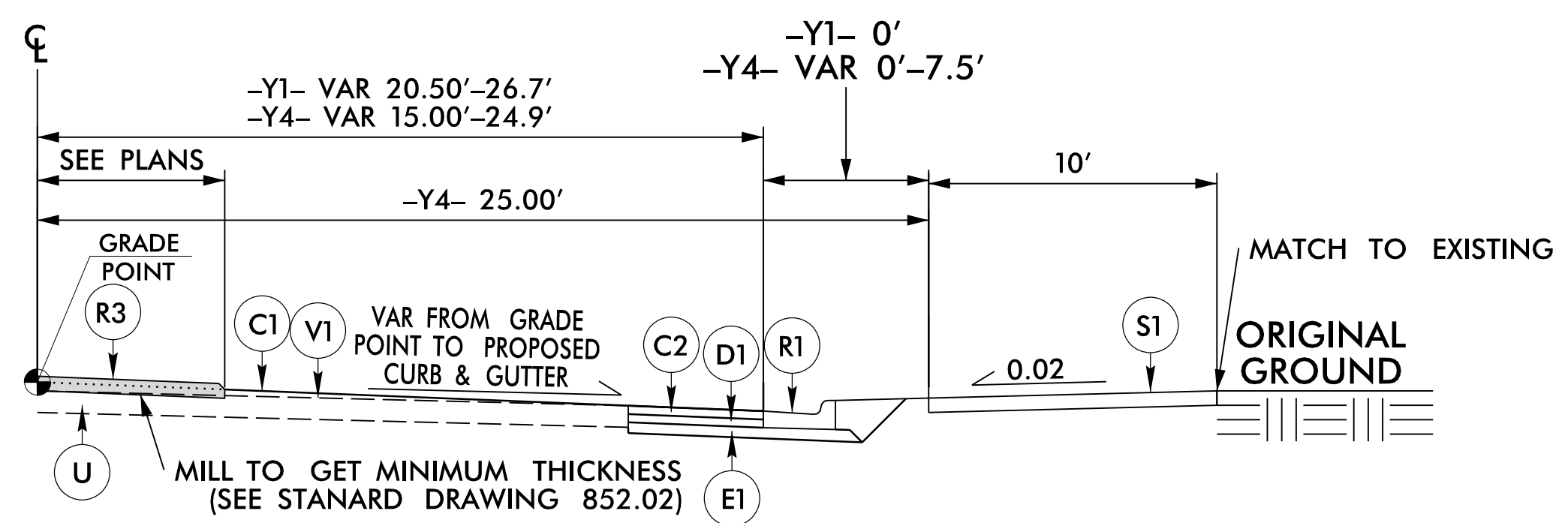


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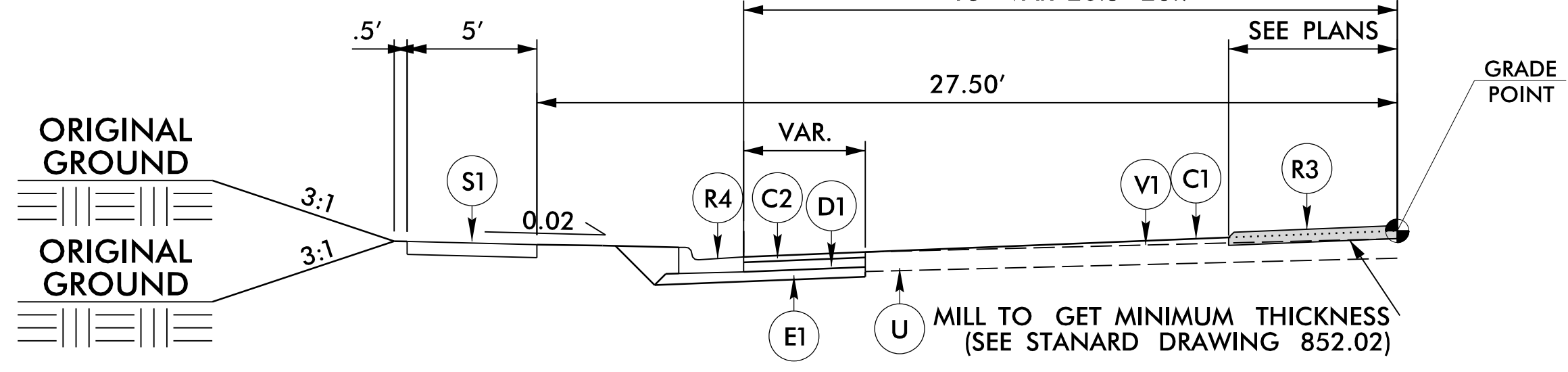
- Y1- STA. 11+27.50 TO STA. 12+32.50 (RIGHT)
- Y2- STA. 12+20.93 TO STA. 12+24.33 (LEFT, MIRROR IMAGE)

6/2/99
24-JAN-2022 14:07
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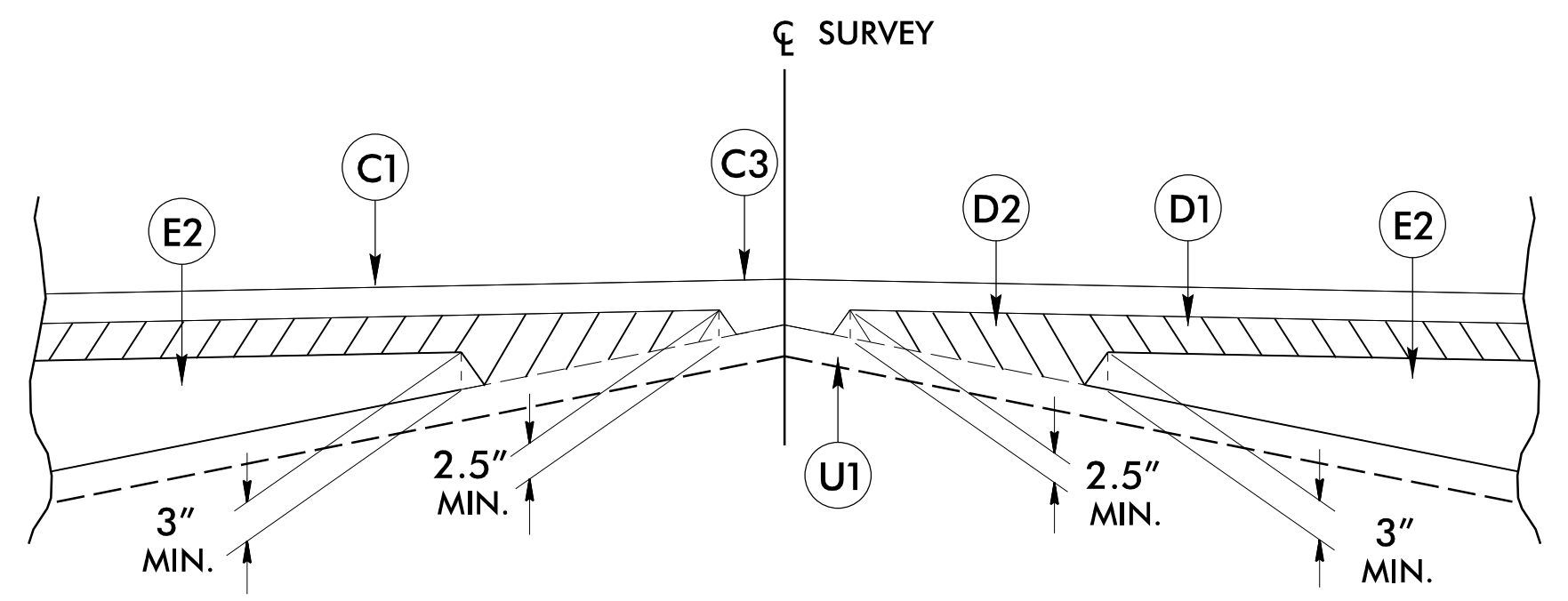
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



TYPICAL SECTION NO. 6
 -Y1- STA. 12 + 32.50 TO STA. 12 + 82.50 (RIGHT)
 -Y4- STA. 10 + 17.50 TO STA. 10 + 77.50 (RIGHT)



TYPICAL SECTION NO. 7
 -Y3- 10 + 67.50 TO 10 + 92.50 (LEFT & RIGHT)
 MILL 1.5" RESURFACE 1.5" C1(S9.5B) WITH MM
 -Y2- STA. 12 + 24.33 TO STA. 12 + 52.50 (LEFT) NO SIDEWALK
 -Y2- STA. 12 + 52.50 TO STA. 12 + 82.50 (LEFT)
 -Y3- STA. 10 + 17.50 TO STA. 10 + 67.50 (LEFT)



Detail Showing Method of Wedging

PAVEMENT SCHEDULE

| | |
|----|------------------|
| C1 | 1.5" S9.5C |
| C2 | 3" S9.5C |
| C3 | VAR S9.5C |
| D1 | 4" I19.0C |
| D2 | VAR I19.0C |
| E1 | 4" B25.0C |
| E2 | VAR B25.0C |
| R1 | 2.5' C&G |
| R2 | 2' VALLEY GUTTER |
| R3 | MOUNTABLE MEDIAN |
| T1 | EARTH MATERIAL |
| U1 | EXIST. PAVEMENT |
| V1 | 0"-3" MILLING |
| W1 | WEDGING |

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

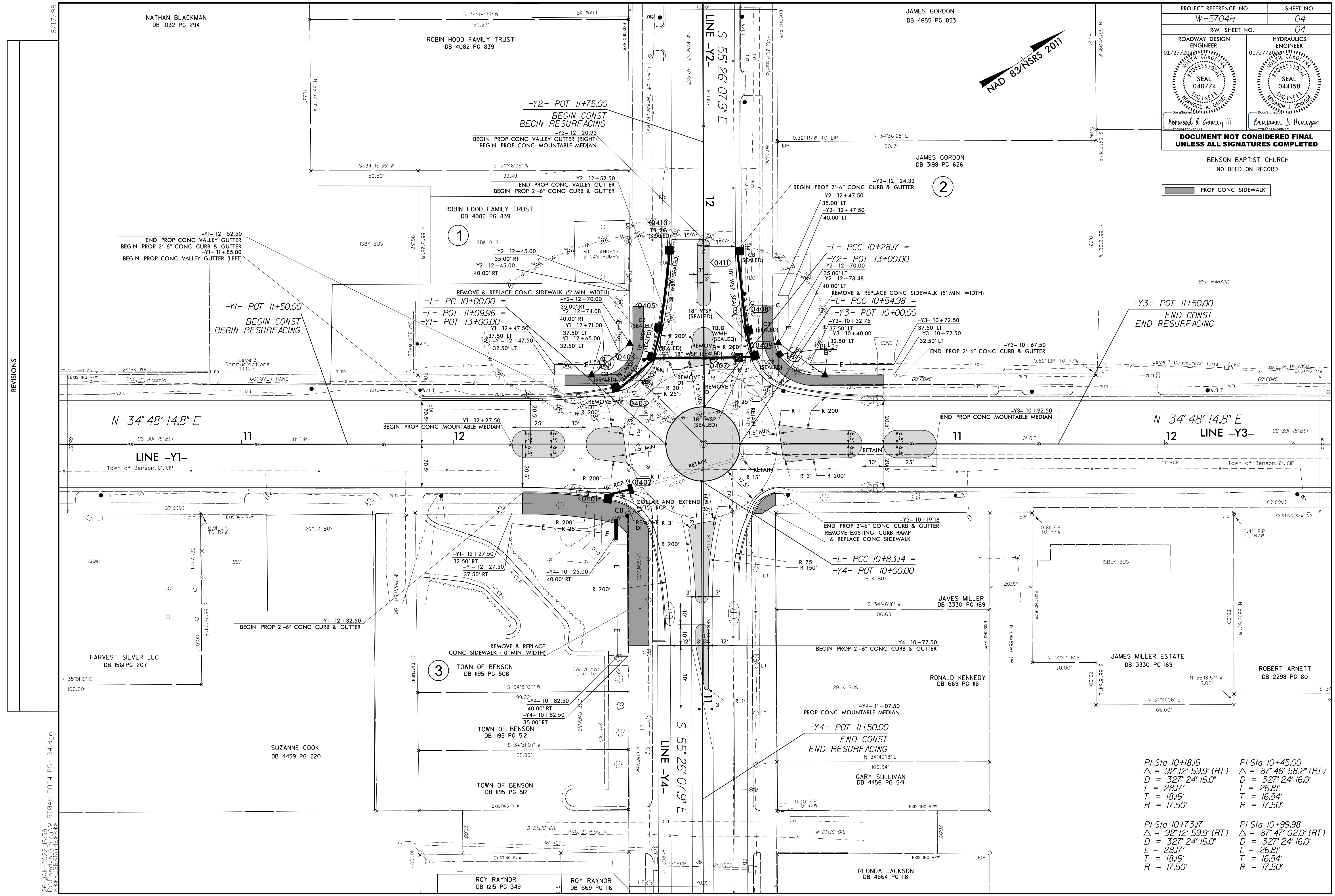
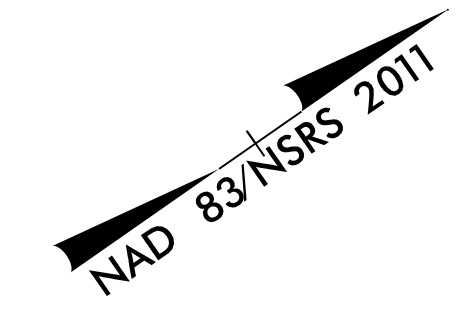
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| R/W SHEET NO. | 04 |
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| 01/27/2022 | 01/27/2022 |
| SEAL 040774 | SEAL 044158 |
| NORWOOD & GAINES | BENJAMIN J. HENEGAR |
| Norwood A. Gaines III | Benjamin J. Henegar |

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BENSON BAPTIST CHURCH
NO DEED ON RECORD

PROF CONC SIDEWALK

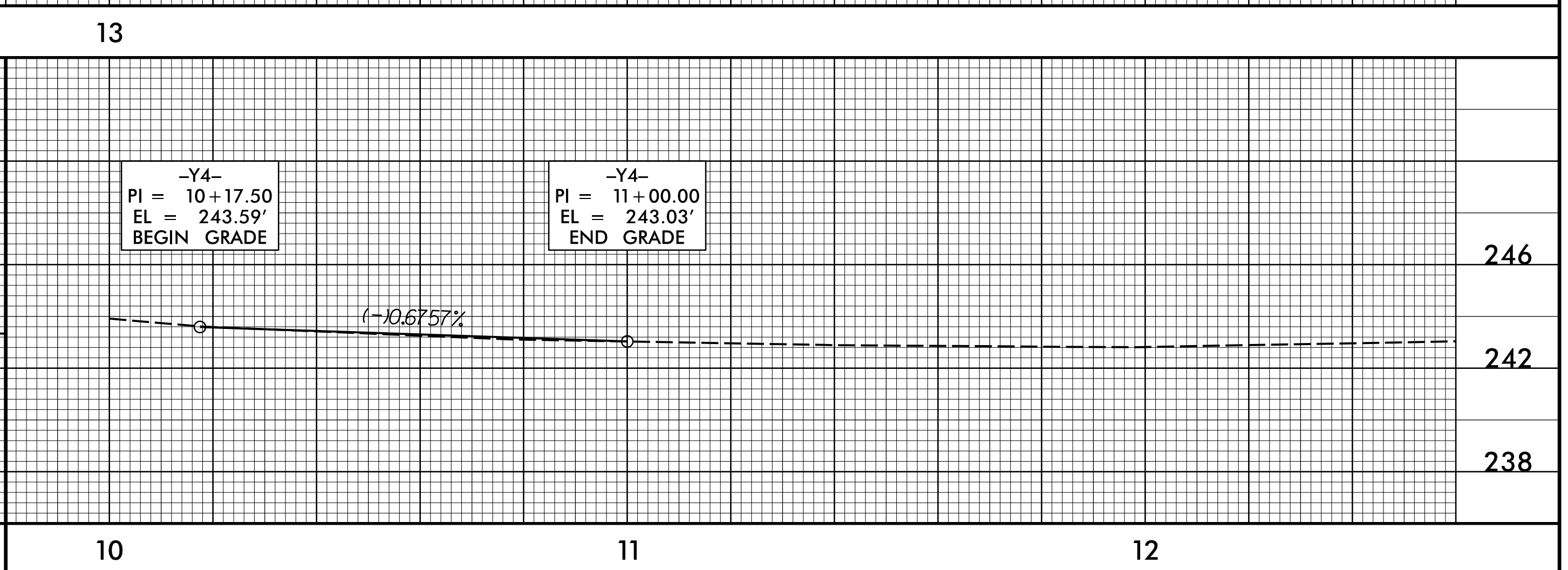
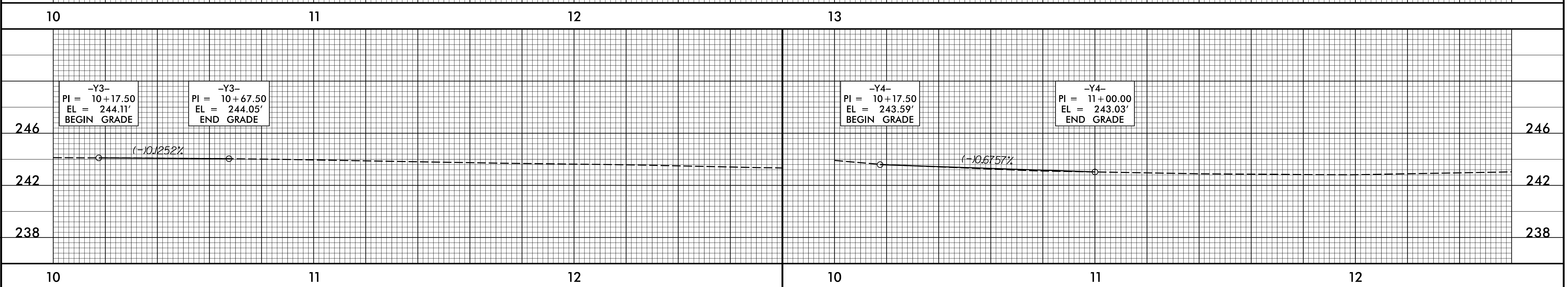
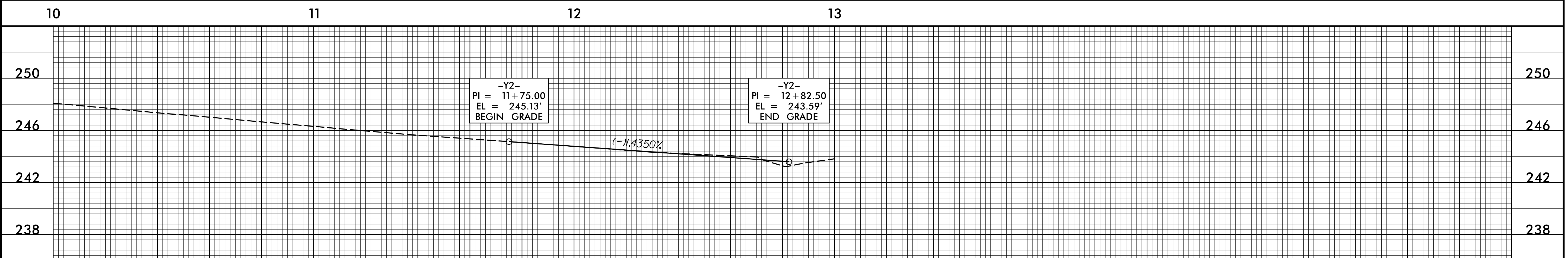
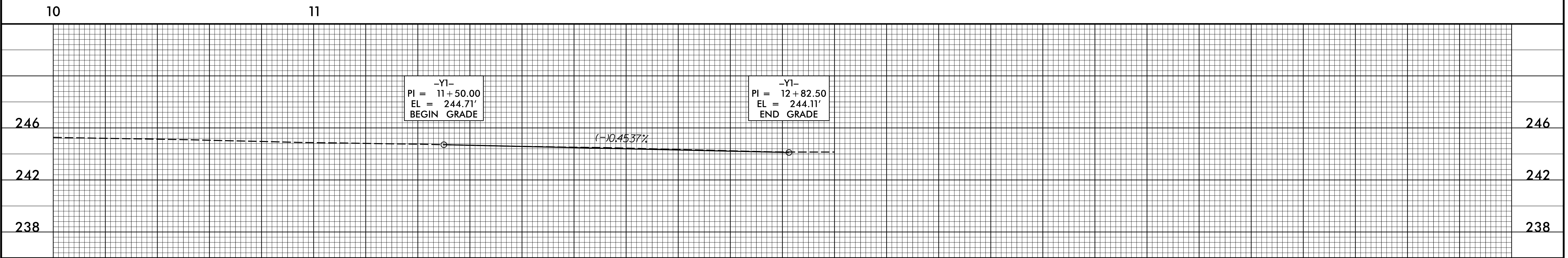
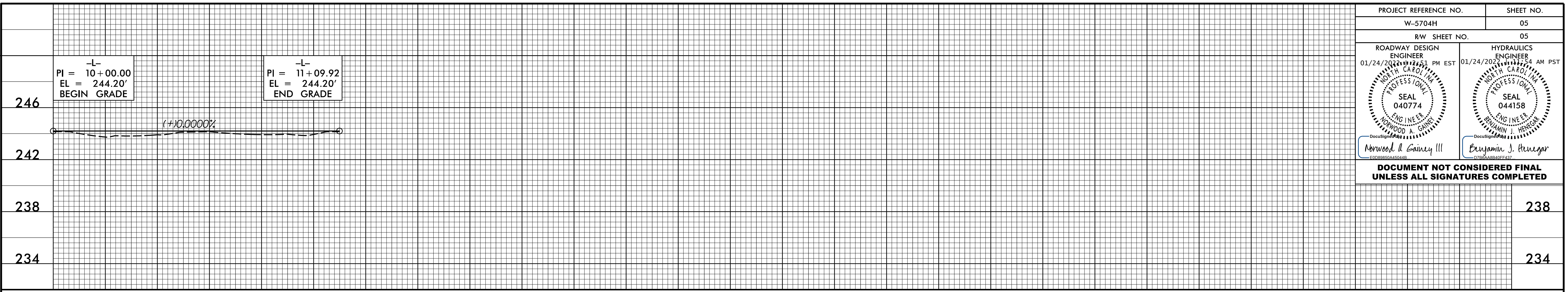


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|--|--|
| PI Sta 10+18.19 $\Delta = 92' 12' 59.9''$ (RT) $D = 327' 24' 16.0''$ $L = 28.17'$ $T = 18.19'$ $R = 17.50'$ | PI Sta 10+45.00 $\Delta = 87' 46' 58.2''$ (RT) $D = 327' 24' 16.0''$ $L = 26.81'$ $T = 16.84'$ $R = 17.50'$ |
| PI Sta 10+73.17 $\Delta = 92' 12' 59.9''$ (RT) $D = 327' 24' 16.0''$ $L = 28.17'$ $T = 18.19'$ $R = 17.50'$ | PI Sta 10+99.98 $\Delta = 87' 47' 02.0''$ (RT) $D = 327' 24' 16.0''$ $L = 26.81'$ $T = 16.84'$ $R = 17.50'$ |

REVISIONS

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| RW SHEET NO. | 05 |
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| SEAL 040774 | SEAL 044158 |
| Northwood & Gainey III | Benjamin J. Henegar |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |



REVISIONS

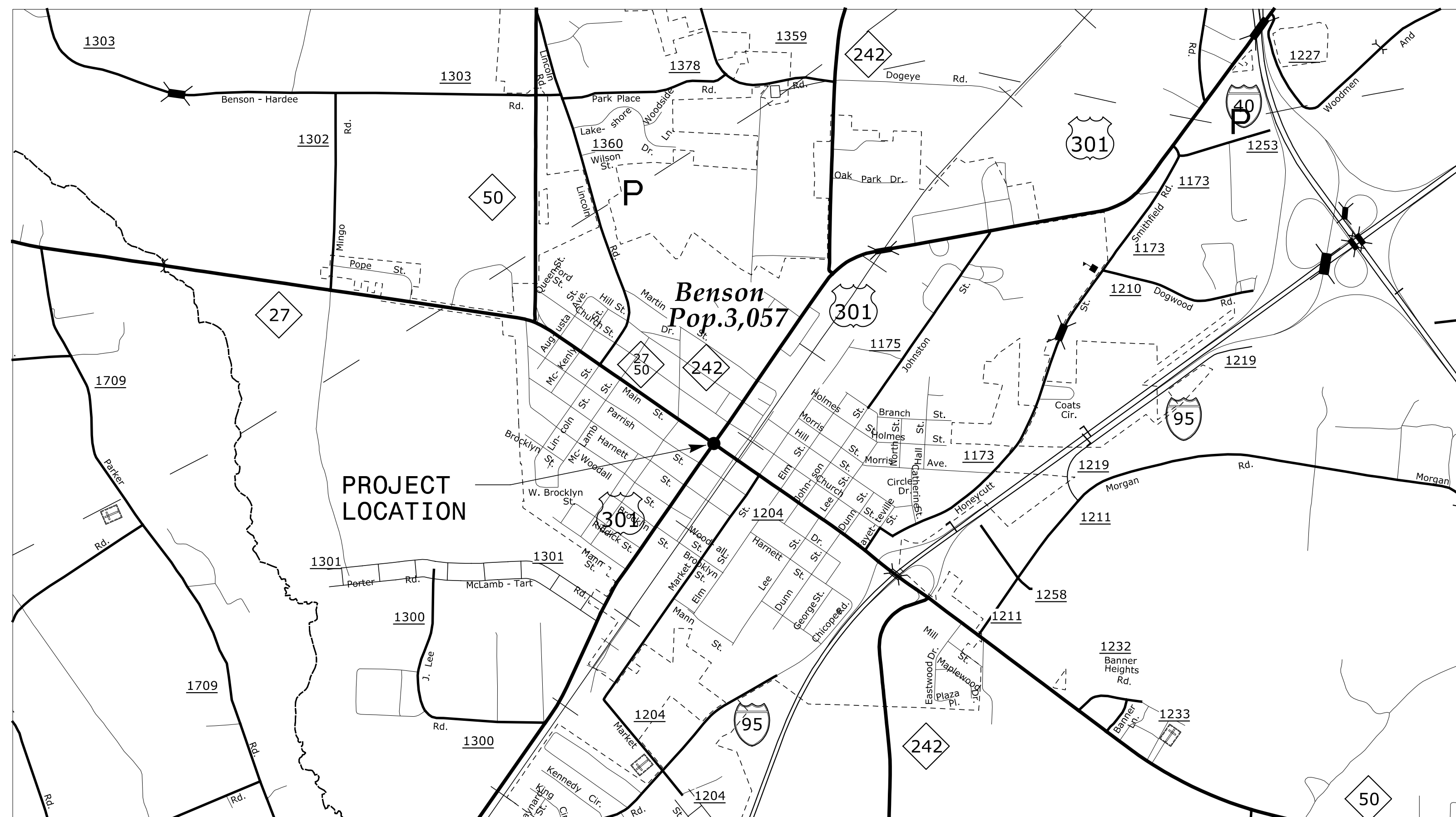
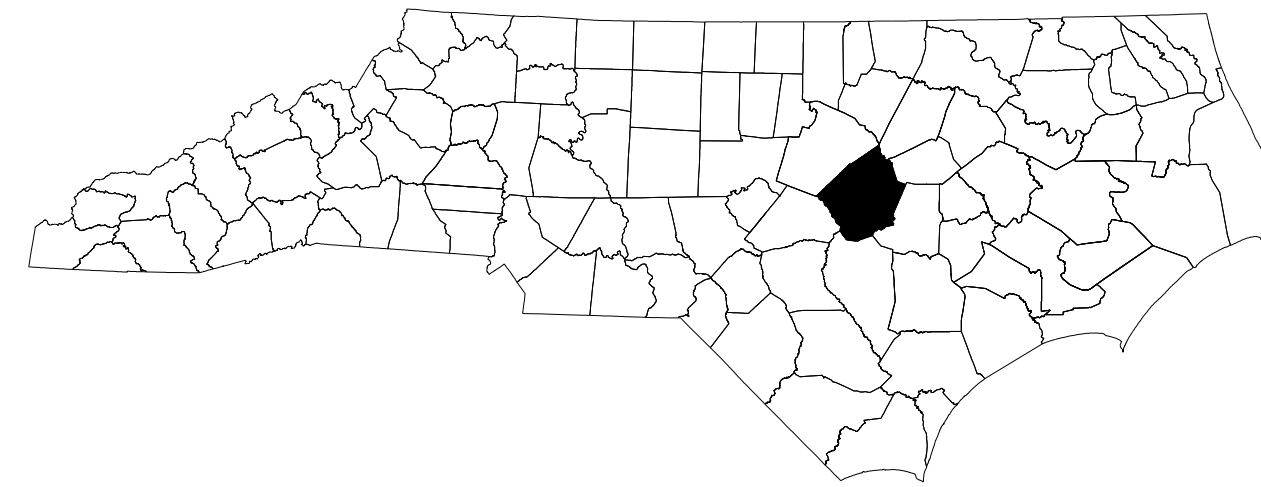
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DDC4

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

JOHNSTON COUNTY



VICINITY MAP
NOT TO SCALE

| SHEET NO. | TITLE |
|-------------------------|--|
| TMP-1 | TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS |
| TMP-1A | LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND |
| TMP-1B | TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES) |
| TMP-2 THRU TMP-2A | DETOUR SIGNING - TRUCKS |
| TMP-2B | DETOUR SIGNING - LOCAL TRAFFIC |
| TMP-3 | TEMPORARY TRAFFIC CONTROL PHASING |
| TMP-4 | TEMPORARY TRAFFIC CONTROL PHASE I DETAIL |

SHEET NO.
TMP-1

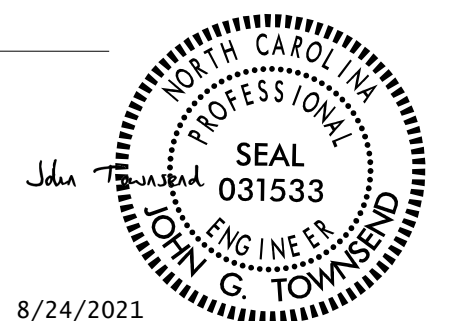
W-5704H

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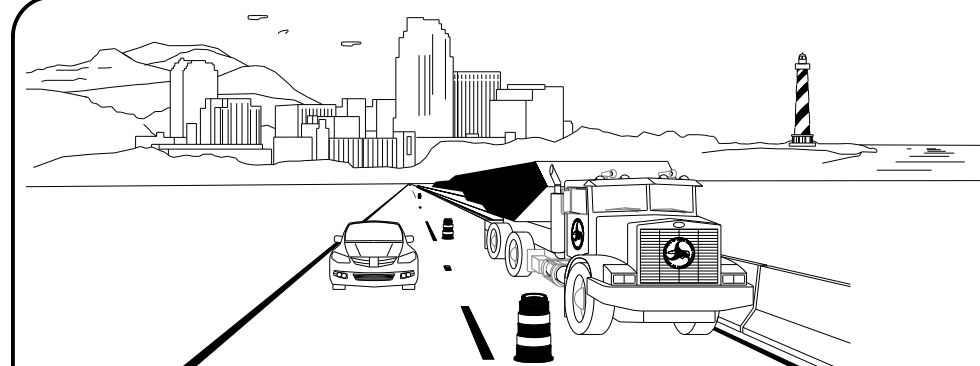
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DATE: _____



8/24/2021



WORK ZONE SAFETY & MOBILITY
"from the MOUNTAINS to the COAST"

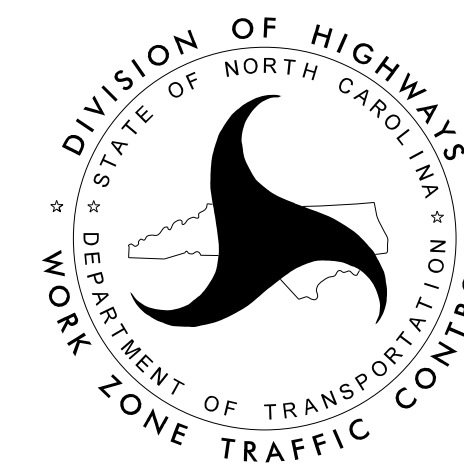
PLANS PREPARED BY:

JOHN TOWNSEND, PE (VHB)

NCDOT CONTACTS:

ADDISON GAINNEY, PE
PROJECT ENGINEER

COREY MCLAMB, PE
PROJECT DESIGN ENGINEER



ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - 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:

| STD. NO. | TITLE |
|----------|---|
| 1101.01 | WORK ZONE WARNING SIGNS |
| 1101.02 | TEMPORARY LANE CLOSURES |
| 1101.03 | TEMPORARY ROAD CLOSURES |
| 1101.05 | WORK ZONE VEHICLE ACCESSES |
| 1101.11 | TRAFFIC CONTROL DESIGN TABLES |
| 1110.01 | STATIONARY WORK ZONE SIGNS |
| 1110.02 | PORTABLE WORK ZONE SIGNS |
| 1115.01 | FLASHING ARROW BOARDS |
| 1130.01 | DRUMS |
| 1135.01 | CONES |
| 1145.01 | BARRICADES |
| 1150.01 | FLAGGING DEVICES |
| 1160.01 | TEMPORARY CRASH CUSHION |
| 1165.01 | TRUCK MOUNTED ATTENUATOR |
| 1180.01 | SKINNY - DRUMS |
| 1205.01 | PAVEMENT MARKINGS - LINE TYPES AND OFFSETS |
| 1205.02 | PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS |
| 1205.04 | PAVEMENT MARKINGS - INTERSECTIONS |
| 1205.05 | PAVEMENT MARKINGS - TURN LANES |
| 1205.07 | PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS |
| 1205.08 | PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES |
| 1205.09 | PAVEMENT MARKINGS - PAINTED ISLANDS |
| 1205.14 | PAVEMENT MARKINGS - ROUNDABOUTS |
| 1250.01 | RAISED PAVEMENT MARKERS - INSTALLATION SPACING |
| 1251.01 | RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY) |

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)
- WORK AREA
- REMOVAL

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM
- SKINNY DRUM
- TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

- CRYSTAL/CRYSTAL
- CRYSTAL/RED
- YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

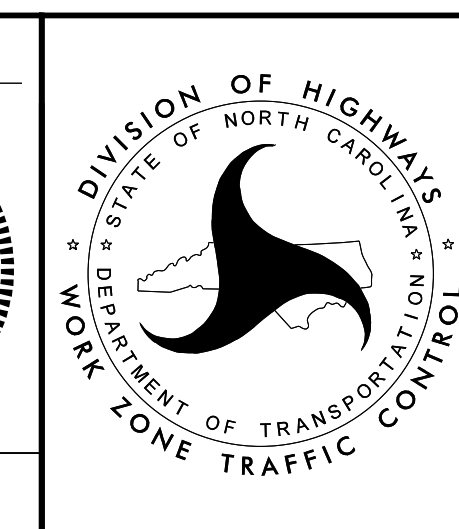
- WHITE CROSSWALK LINE
- PAINT (8")

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APPROVED: _____
 DATE: _____
 John T. Townsend
 SEAL
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 ENGINEER
 JOHN C. TOWNSEND
 8/24/2021

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ROADWAY STANDARD
DRAWINGS & LEGEND

GENERAL NOTES

| | |
|---------------------|-----------|
| PROJ. REFERENCE NO. | SHEET NO. |
| W-5704H | TMP-1B |

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME
MAIN STREET
WALL STREET

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 6:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 6:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 6:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
9. FOR MULE DAYS 2022, BETWEEN THE HOURS OF 6:00 A.M. THE WEDNESDAY OF THE MULE DAYS 2022 AND 6:00 P.M. THE MONDAY AFTER THE MULE DAYS 2022.

B) DO NOT CLOSE ROADS AS FOLLOWS:

| ROAD NAME | DAY AND TIME RESTRICTIONS |
|-------------|---|
| MAIN STREET | CLOSURE LIMITED TO 21 CONSECUTIVE CALENDAR DAYS |
| WALL STREET | CLOSURE LIMITED TO 21 CONSECUTIVE CALENDAR DAYS |

LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

G) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

H) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

I) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 200 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

J) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

K) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

L) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

M) CONTRACTOR WILL COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

CONTRACTOR WILL COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

N) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

O) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 200 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

P) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

Q) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

PAVEMENT MARKINGS AND MARKERS

R) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

| ROAD NAME | MARKING | MARKER |
|-------------|---------|--------|
| MAIN STREET | PAINT | NONE |
| WALL STREET | PAINT | NONE |

S) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.

T) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

U) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

V) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.

W) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).

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NC License No. C-3705

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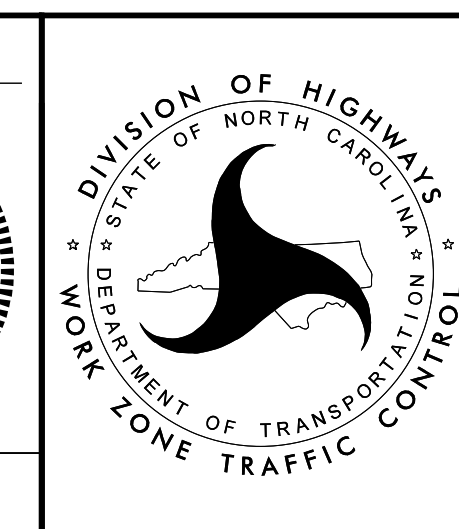
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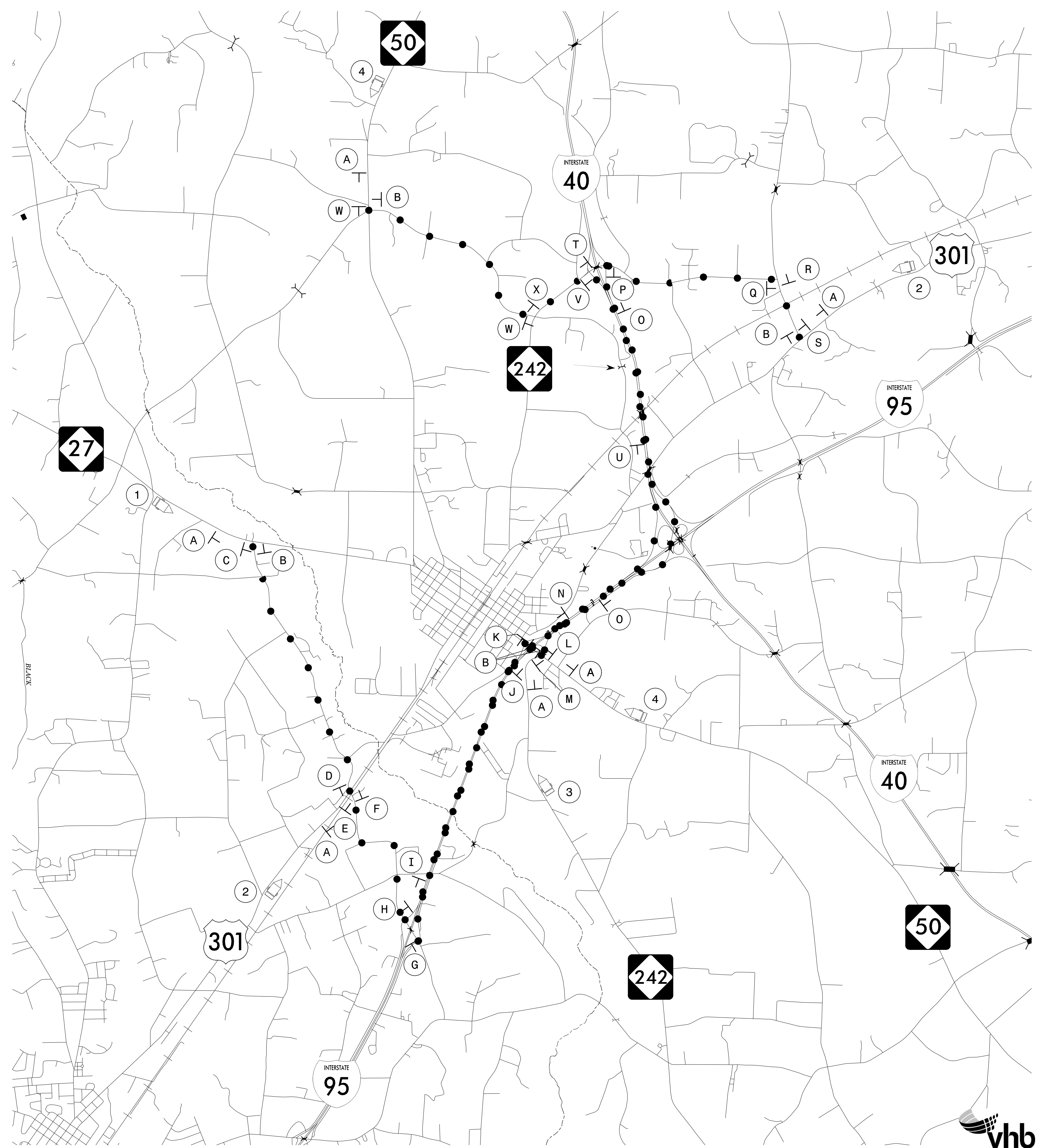
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ENGINEER
JOHN C. TOWNSEND

3/31/2022

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TRANSPORTATION
OPERATIONS
PLAN



| MESSAGE NO. 1 | MESSAGE NO. 2 |
|-----------------------------|--------------------------|
| NC 27 CLOSED @ US 301 | THRU TRUCKS DETOUR |

CHANGEABLE MESSAGE SIGN

①

| MESSAGE NO. 1 | MESSAGE NO. 2 |
|------------------------------|--------------------------|
| NC 242 CLOSED @ US 301 | THRU TRUCKS DETOUR |

CHANGEABLE MESSAGE SIGN

③

| MESSAGE NO. 1 | MESSAGE NO. 2 |
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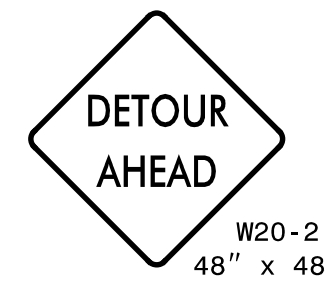
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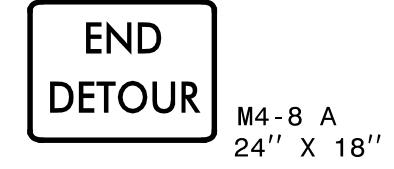
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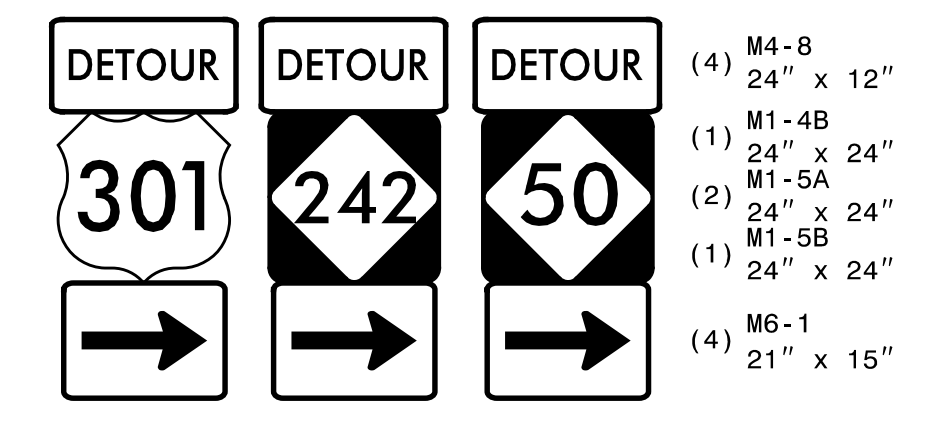
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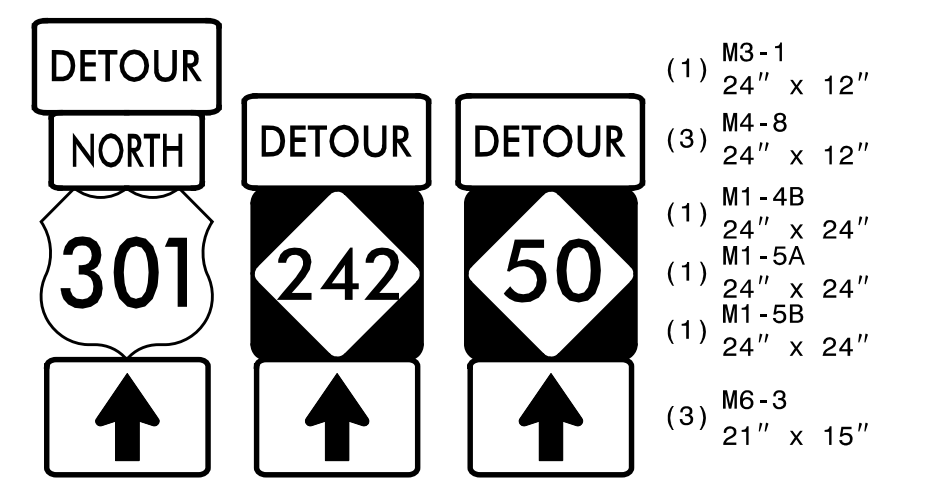
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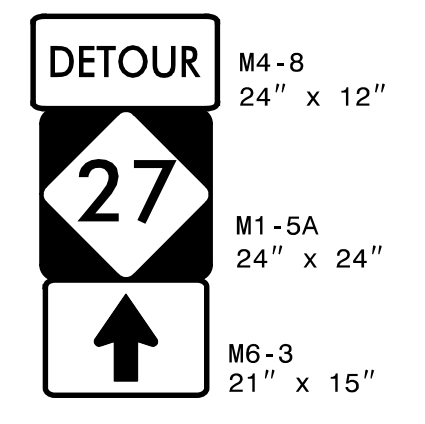
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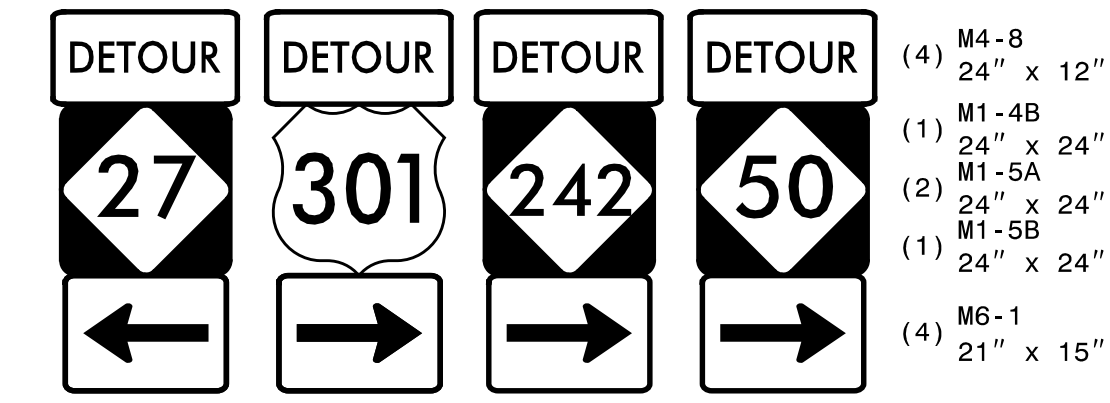
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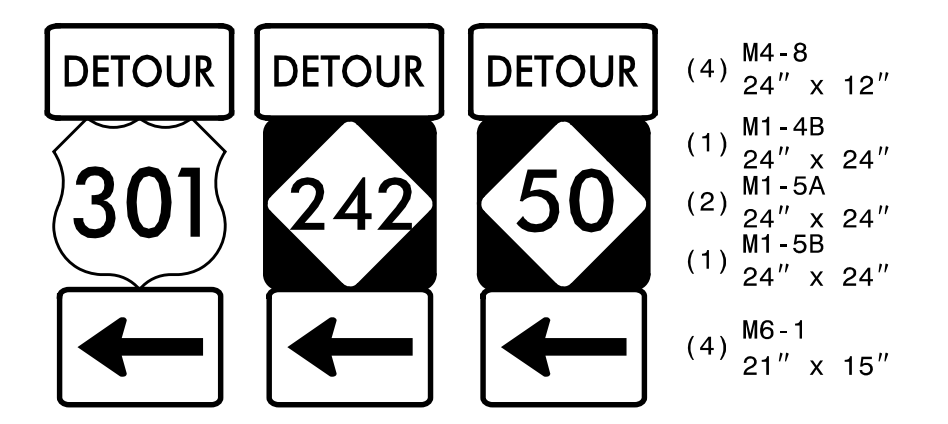
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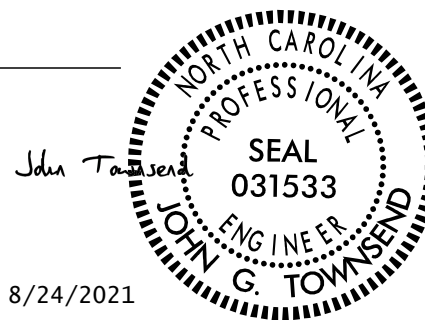
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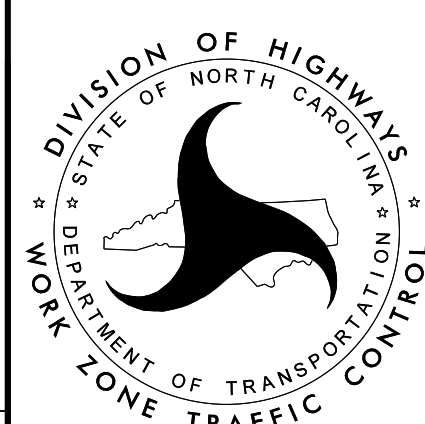
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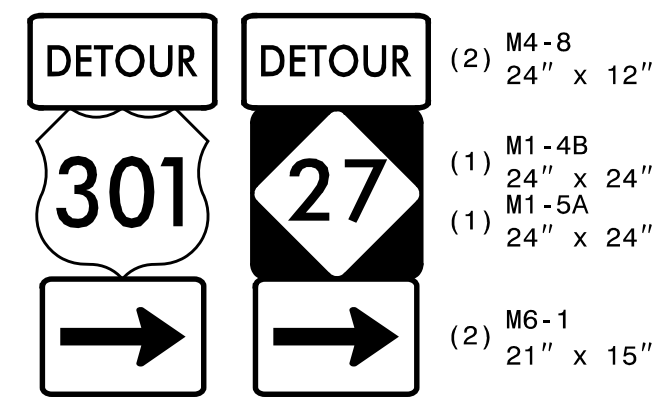
DETOUR SIGNING
-
TRUCKS

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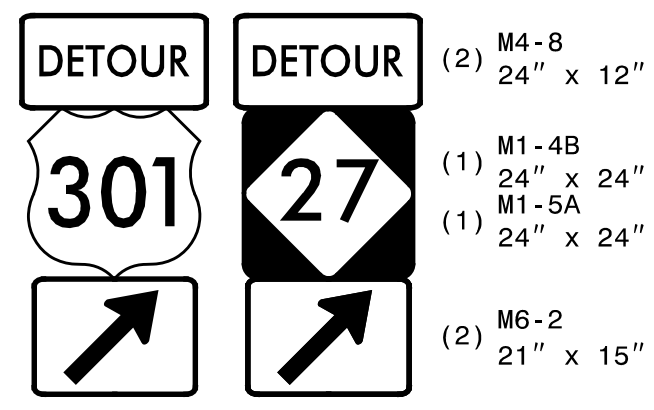


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NC License No. C-3705

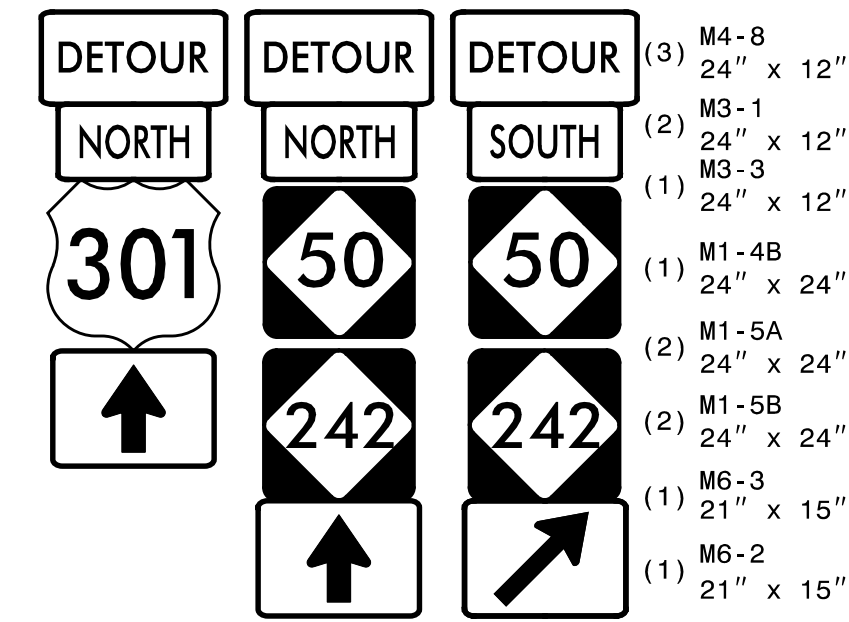
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User:Jtownsend



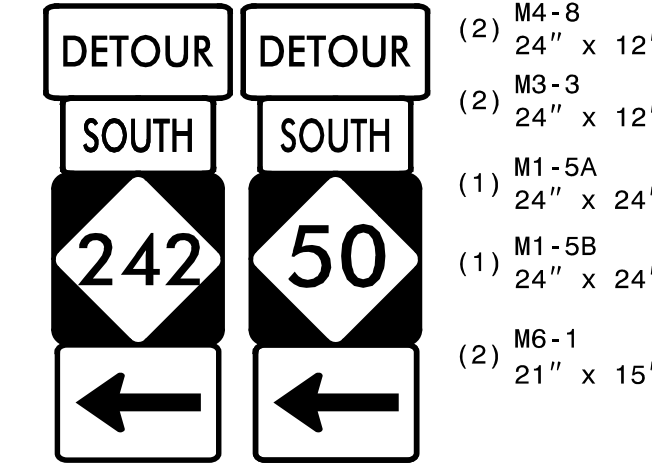
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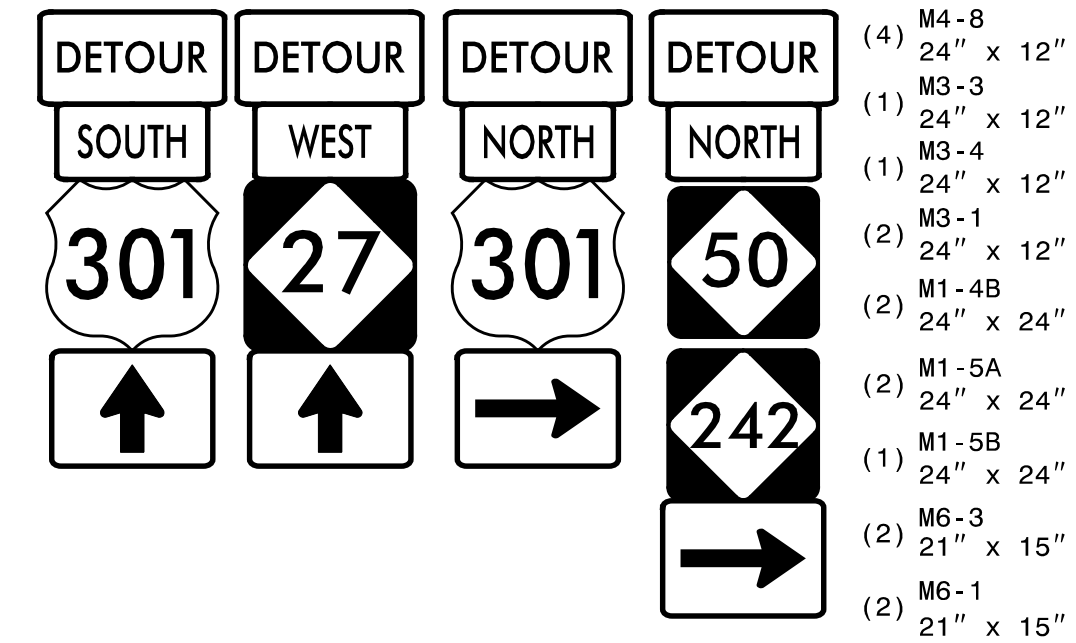
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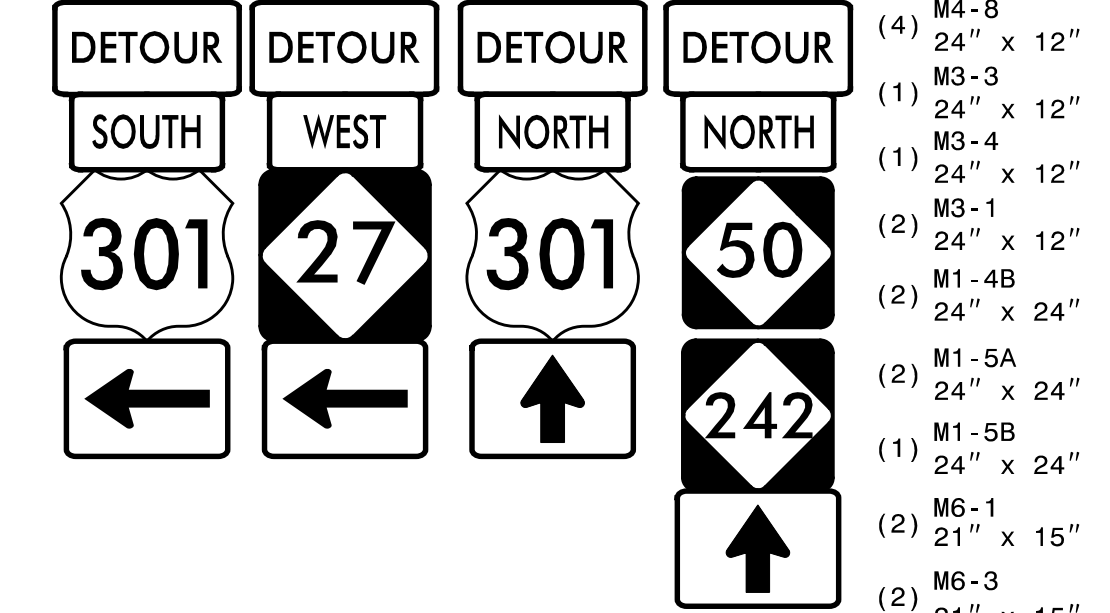
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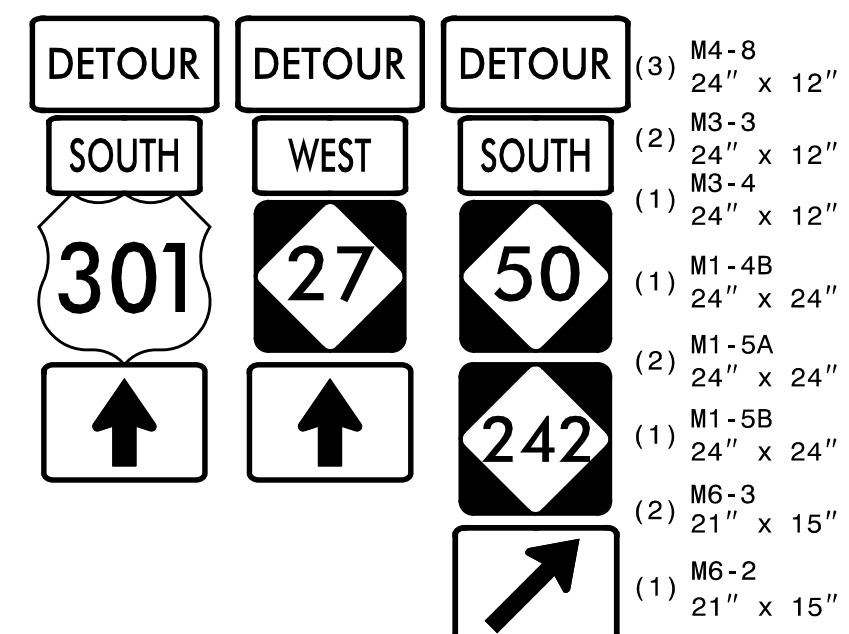
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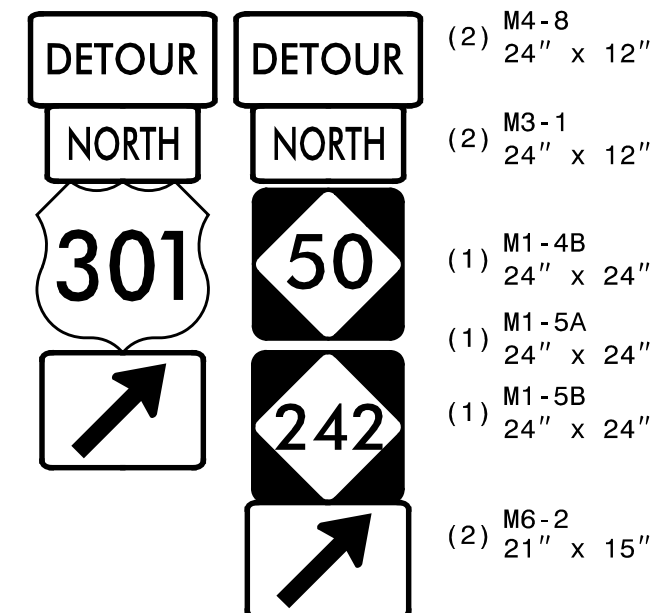
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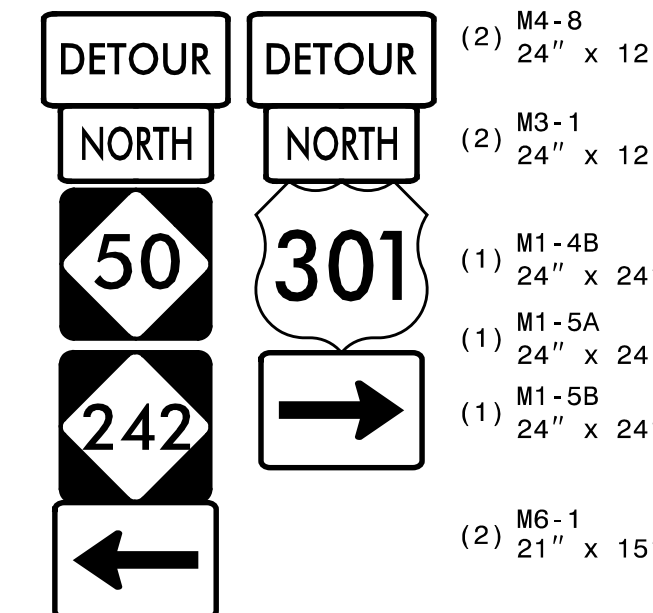
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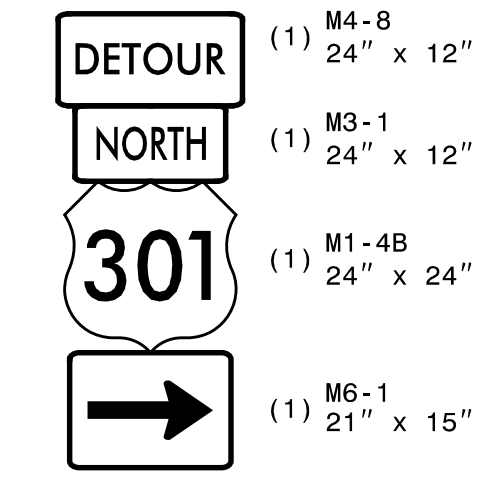
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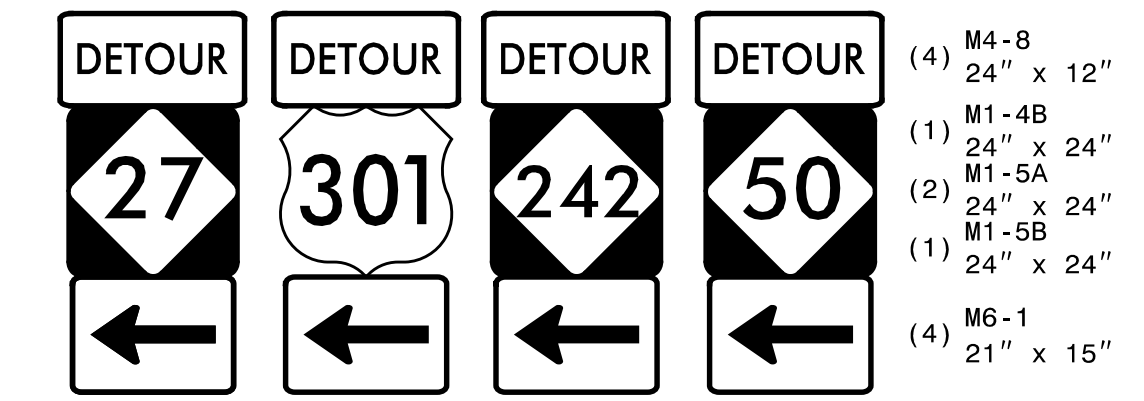
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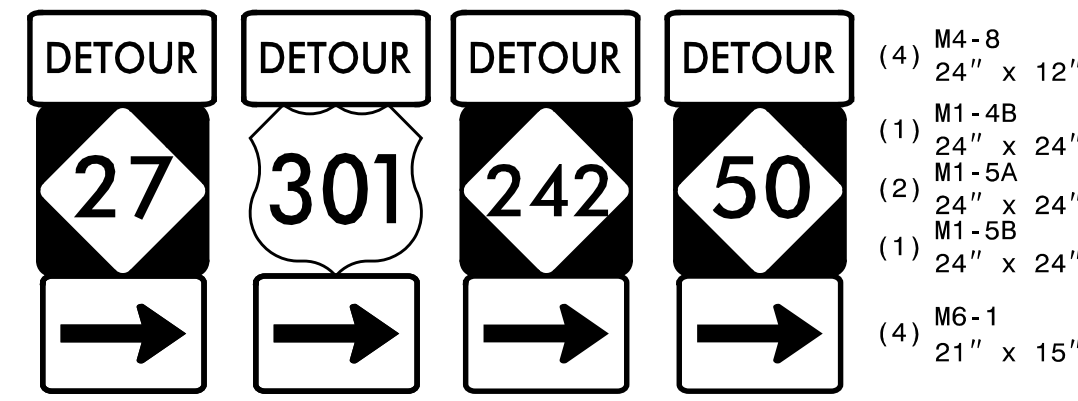
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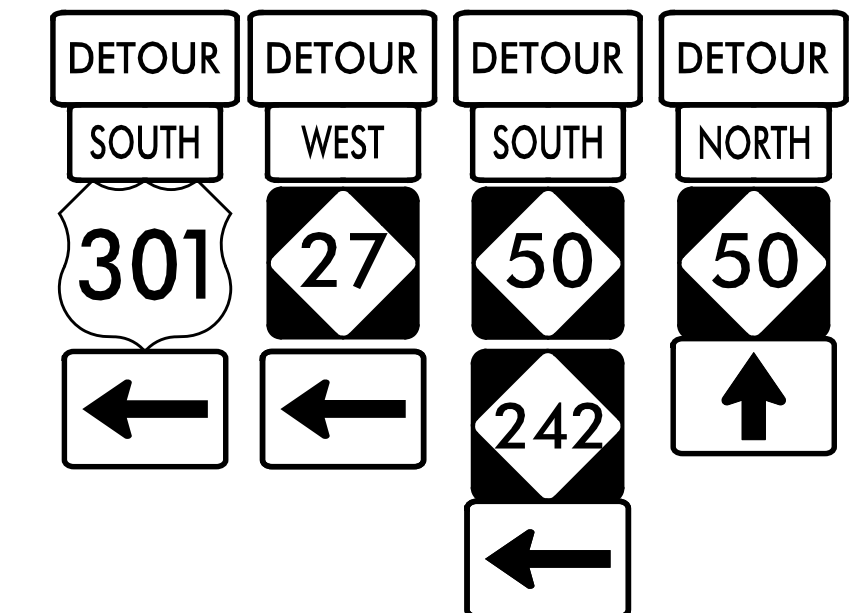
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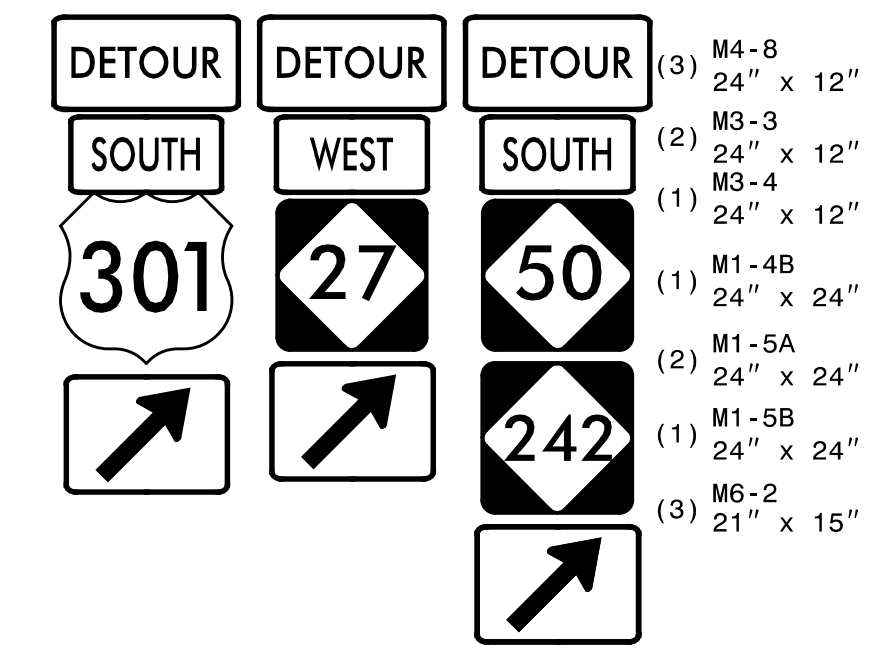


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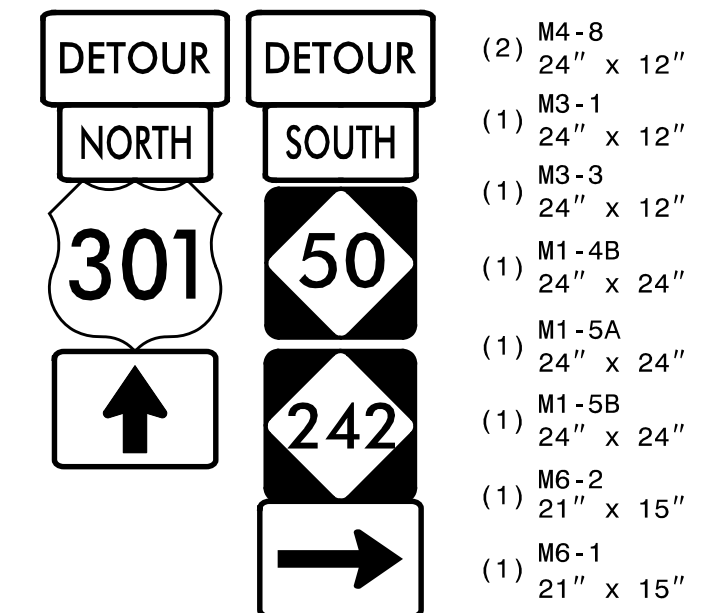


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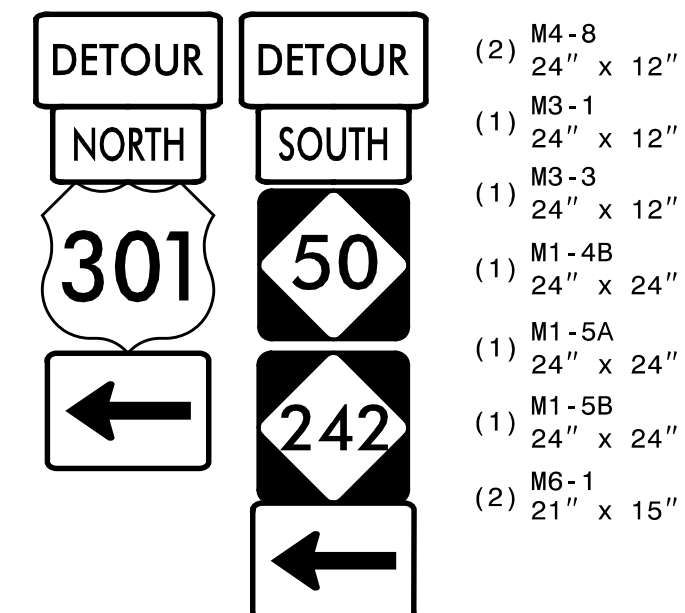
- (4) M4-8 24" x 12"
- (2) M3-3 24" x 12"
- (1) M3-4 24" x 12"
- (1) M3-1 24" x 12"
- (1) M1-4B 24" x 24"
- (3) M1-5A 24" x 24"
- (1) M1-5B 24" x 24"
- (3) M6-1 21" x 15"
- (1) M6-2 21" x 15"



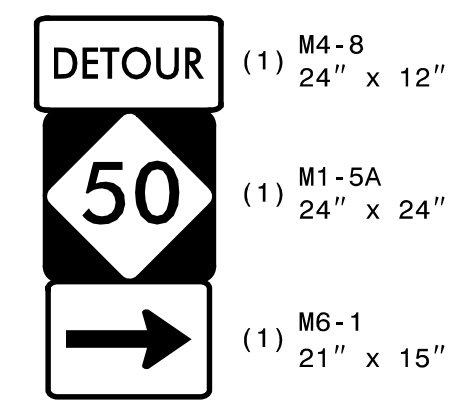
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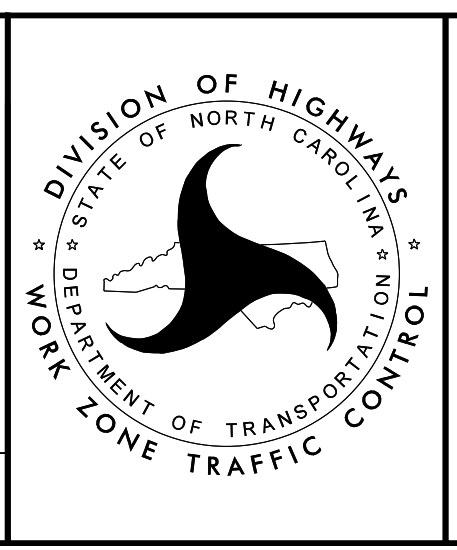


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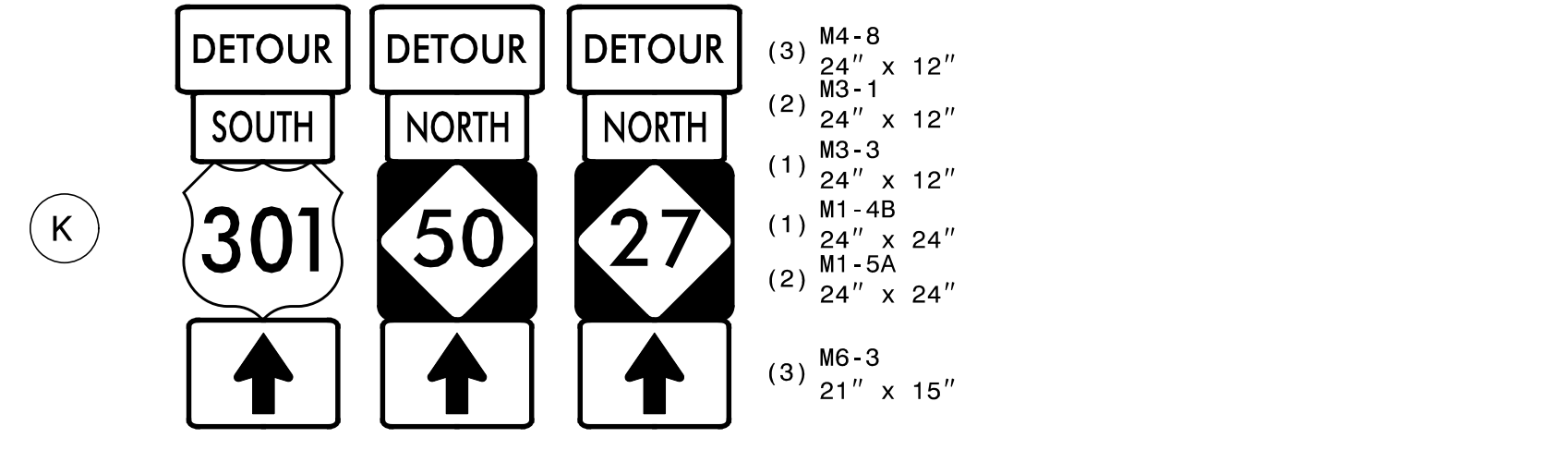
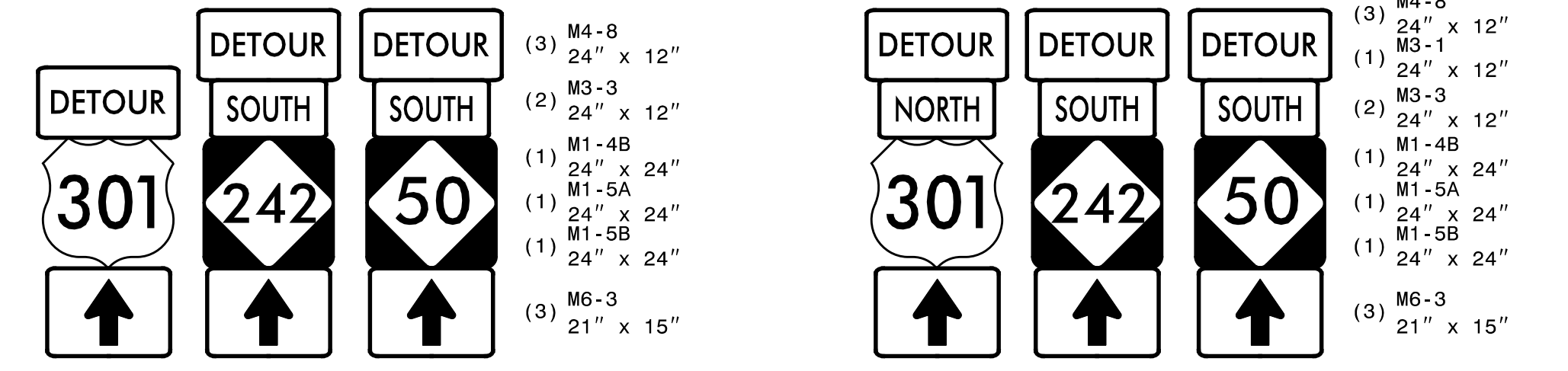
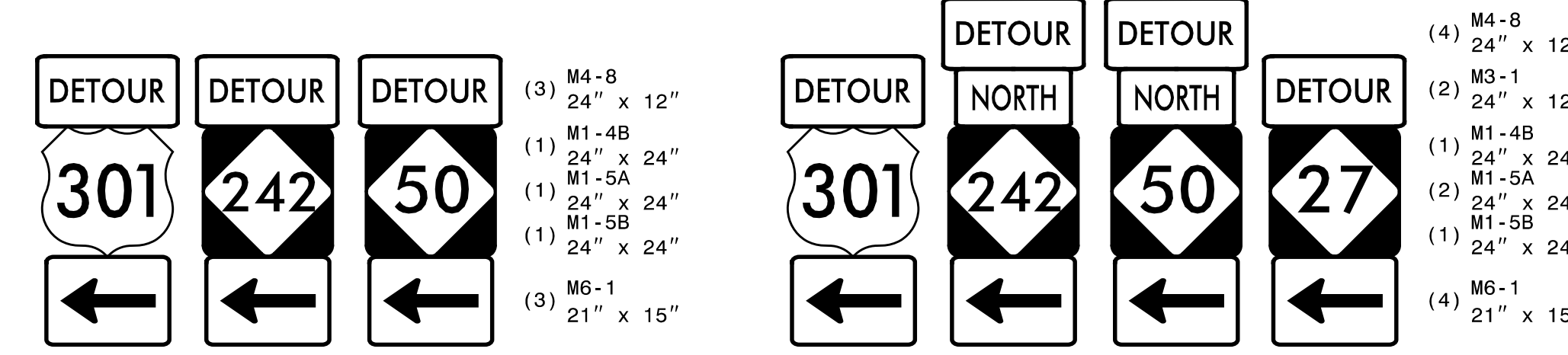
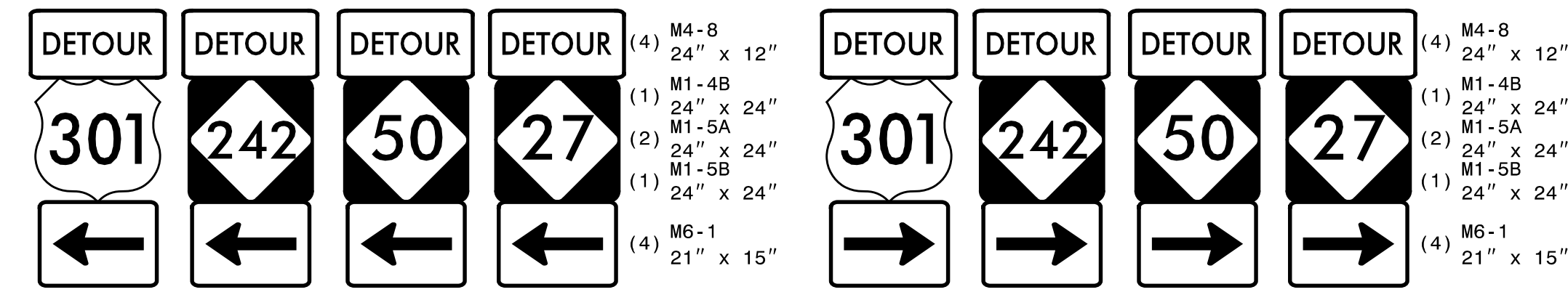
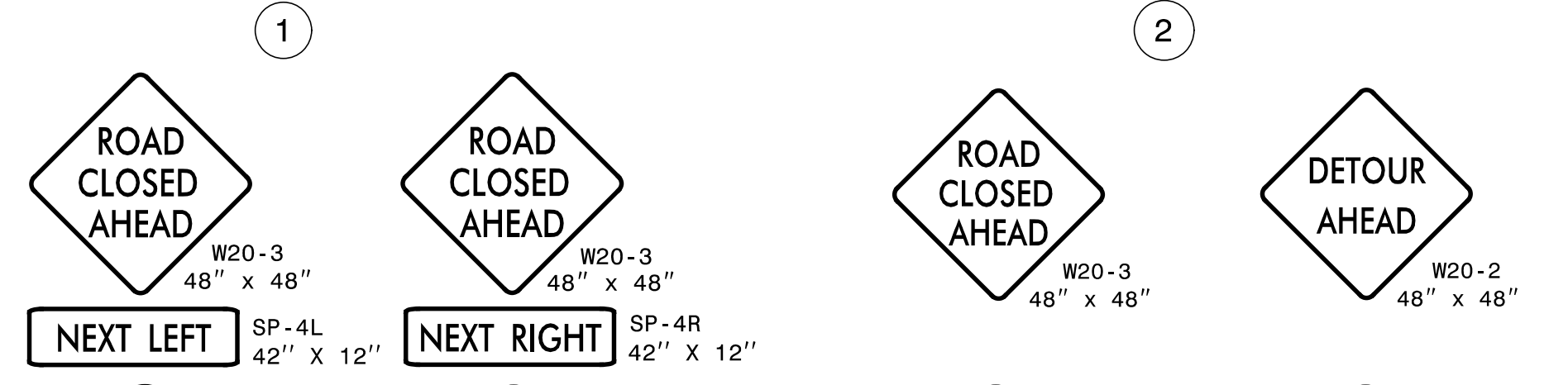
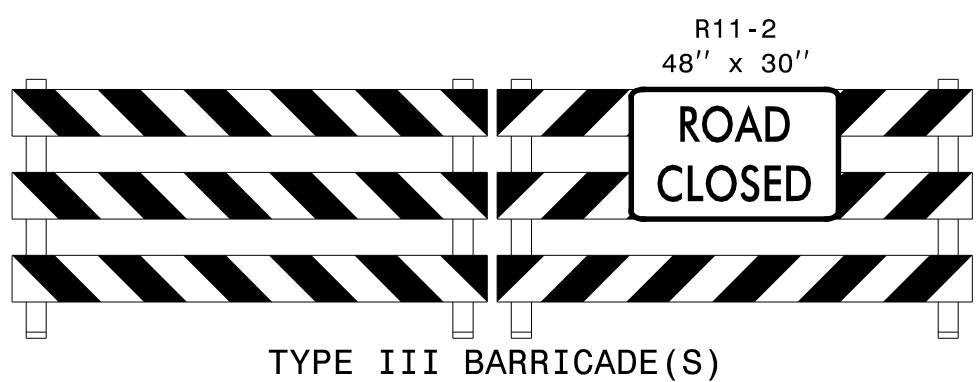
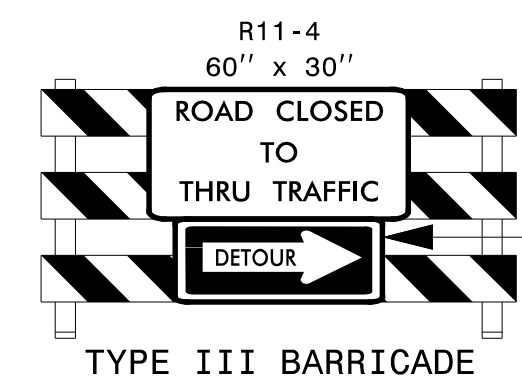
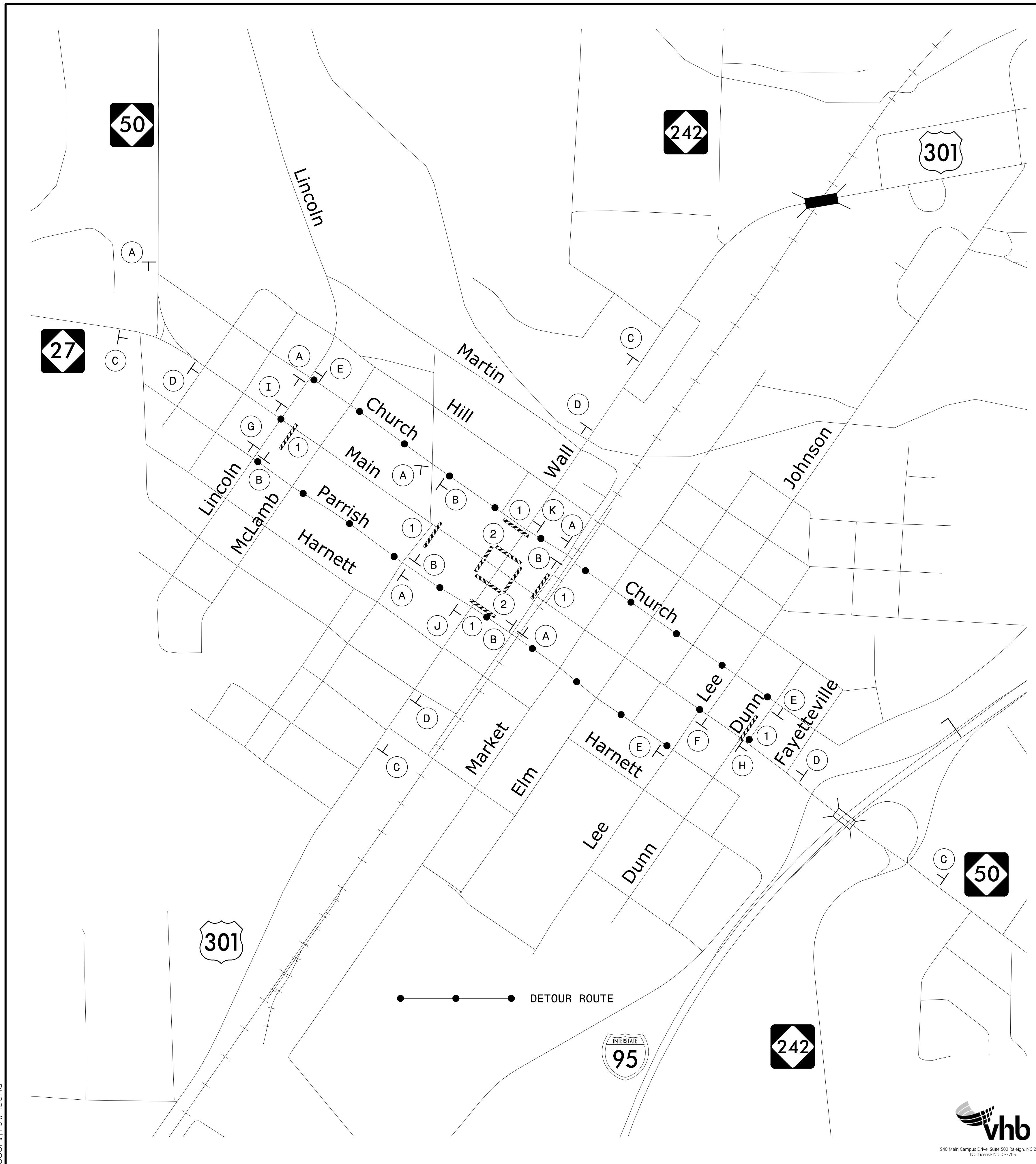
8/24/2021 R:\TrafficControl\TCP\W5704H_tmp_TMP-02A.dgn User:JHtownsend



APPROVED: _____
 DATE: _____
 John Townsend
 SEAL
 031533
 ENGINEER
 JOHN C. TOWNSEND
 8/24/2021
**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**



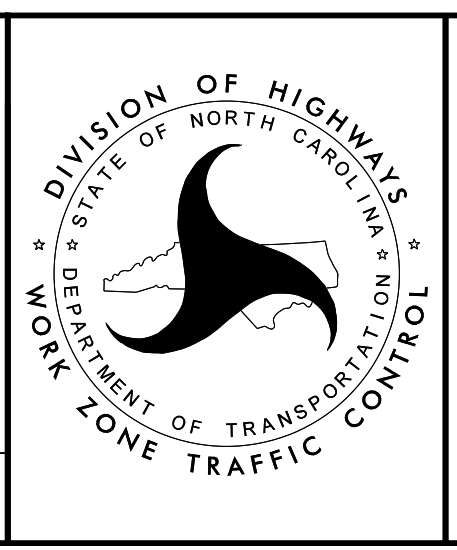
DETOUR SIGNING
 TRUCKS



8/24/2021
 R:\TrafficControl\TCP\W5704H_tmp_TMP-02B.dgn
 User:JHowsend



APPROVED: _____
 DATE: _____
 John Townsend
 SEAL 031533
 PROFESSIONAL ENGINEER
 JOINTLY LICENSED
 IN NORTH CAROLINA AND VIRGINIA
 8/24/2021



DETOUR SIGNING
 -
 LOCAL

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

PHASING

| | |
|---------------------|-----------|
| PROJ. REFERENCE NO. | SHEET NO. |
| W-5704H | TMP-3 |

THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING DRIVEWAYS DURING CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS DIRECTED IN THE PHASING NOTES.

ERADICATE EXISTING MARKINGS WHICH CONFLICT WITH MARKINGS SHOWN IN THIS PLAN. REPLACE FADED OR WORN MARKINGS AS NEEDED DURING CONSTRUCTION TO MAINTAIN CLEAR DIRECTION TO THE TRAVELING PUBLIC OR AS DIRECTED BY THE ENGINEER.

PHASE I

STEP 1

INSTALL AND COVER DETOUR SIGNS AS SHOWN ON SHEETS TMP-2 THRU TMP-2B.

STEP 2

INTERMEDIATE CONTRACT TIME: THE CONTRACTOR SHALL COMPLETE THE WORK REQUIRED OF PHASE I STEP 3 IN 21 CONSECUTIVE CALENDAR DAYS AND COORDINATE WITH THE ENGINEER AND BUSINESS OWNERS TO AVOID OR MINIMIZE IMPACTS TO BUSINESS OPERATIONS.

STEP 3

UNCOVER DETOUR SIGNING PLACED IN STEP 1 AND CLOSE THE INTERSECTION OF WALL STREET AT MAIN STREET.

INSTALL ADA COMPLIANT PEDSTRIAN BARRICADES AS SHOWN ON THE PLANS TO CLOSE AND DETOUR THE SIDEWALK AND PROVIDE PEDESTRIAN TRANSPORT SERVICE FOR PEDESTRIAN TRAFFIC TO/FROM THE WEST ON W MAIN STREET. ACCESS TO BUSINESSES SHALL BE MAINTAINED AT ALL TIMES.

CONSTRUCT CURB AND GUTTER, DRAINAGE, ASPHALT PAVEMENT, SIDEWALK, CURB RAMPS, AND CONCRETE ISLANDS.

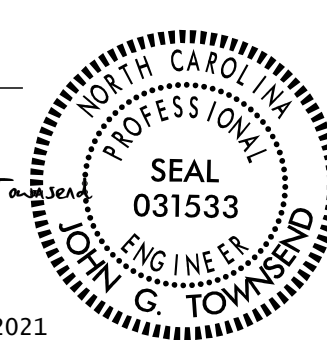
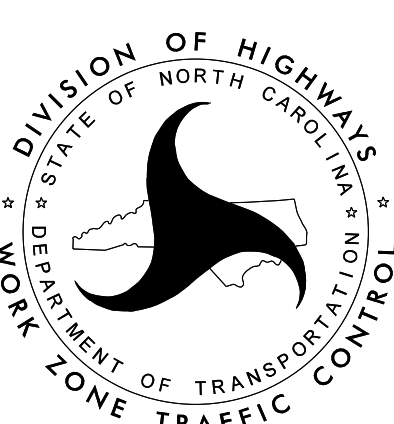
INSTALL FINAL PAVEMENT LAYER AND FINAL PAVEMENT MARKINGS AND MARKERS. SEE PAVEMENT MARKING PLANS FOR DETAIL.

OPEN THE INTERSECTION OF WALL STREET AT MAIN STREET AND REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES.

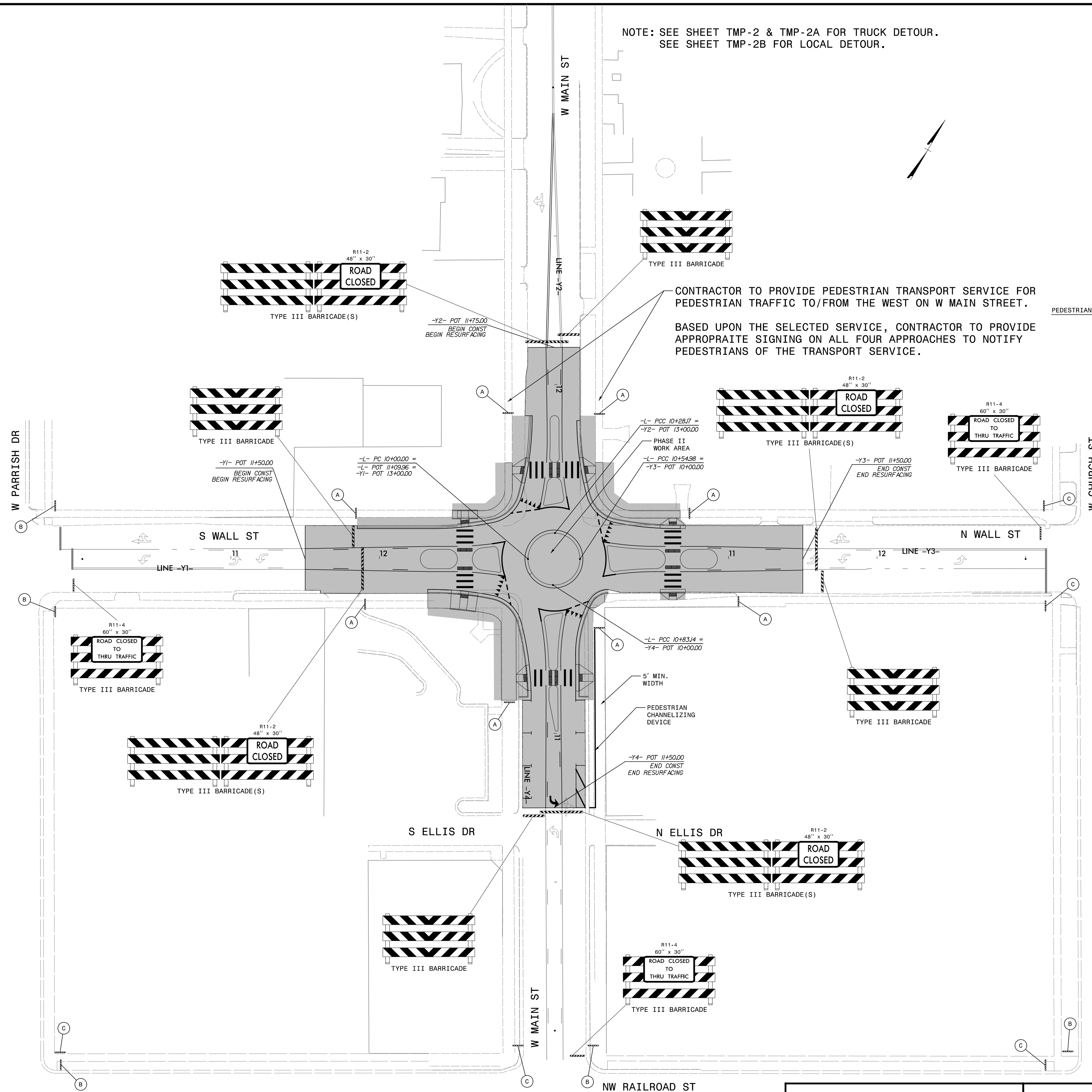
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User:JHtownsend



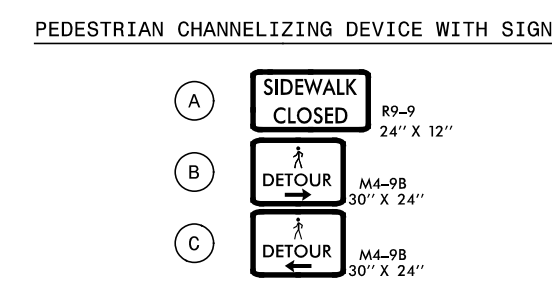
940 Main Campus Drive, Suite 500 Raleigh, NC 27606
NC License No. C-3705

| | | |
|--|---|---------|
| APPROVED: _____ DATE: _____  John C. Townsend 8/24/2021 |  | PHASING |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | | |

NOTE: SEE SHEET TMP-2 & TMP-2A FOR TRUCK DETOUR.
SEE SHEET TMP-2B FOR LOCAL DETOUR.



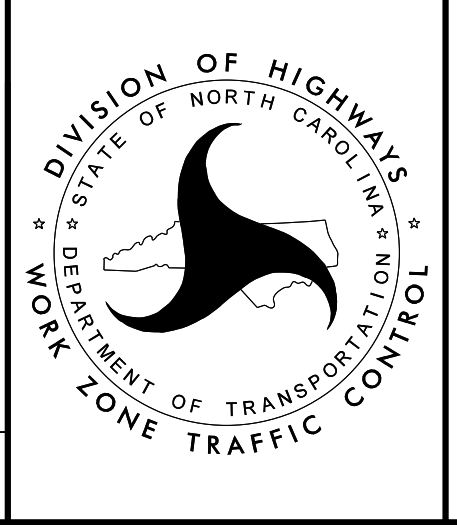
CONTRACTOR TO PROVIDE PEDESTRIAN TRANSPORT SERVICE FOR PEDESTRIAN TRAFFIC TO/FROM THE WEST ON W MAIN STREET.
BASED UPON THE SELECTED SERVICE, CONTRACTOR TO PROVIDE APPROPRIATE SIGNING ON ALL FOUR APPROACHES TO NOTIFY PEDESTRIANS OF THE TRANSPORT SERVICE.



APPROVED: _____
DATE: _____

Seal of John C. Townsend, Professional Engineer, License No. 031533, State of North Carolina. Date: 3/30/2022.

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PHASE I

3/30/2022 R:\TrafficControl\TCP\W5704H_Tmp_TMP-4.dgn User:JHownsend



| | |
|--|-----------|
| TIP NO. | SHEET NO. |
| W-5704H | PMP-1 |
| APPROVED: _____ | |
| DATE: _____ | |
| SEAL | |
| | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
JOHNSTON COUNTY**

LOCATION: US-301 /NC-242 (WALL STREET) AND NC-50 /NC-242 (MAIN STREET) INTERSECTION IN BENSON

T.I.P.: W-5704H

CONTRACT:

INDEX

| SHEET NO. | DESCRIPTION |
|-----------|--|
| PMP-1 | PAVEMENT MARKING PLAN TITLE AND SCHEDULE SHEET |
| PMP-4 | PAVEMENT MARKING DETAIL |

PAVEMENT MARKING SCHEDULE

| SYMBOL | ITEM DESCRIPTION | TOTAL QUANTITY |
|--------|--|----------------|
| | <u>THERMOPLASTIC (24", 90 MILS.)</u> | |
| T3 | WHITE CROSSWALK LINE (HIGH VISIBILITY) | 220 FT |
| | <u>THERMOPLASTIC (4", 90 MILS.)</u> | |
| TA | WHITE EDGELINE | 75 FT |
| TB | YELLOW EDGELINE | 496 FT |
| | <u>THERMOPLASTIC (4", 90 MILS.)</u> | |
| TF | 10 FT. YELLOW SKIP | 520 FT |
| TH | YELLOW SINGLE CENTER | 520 FT |
| TI | YELLOW DOUBLE CENTER | 158 FT |
| | <u>THERMOPLASTIC (8", 90 MILS.)</u> | |
| TN | WHITE GORELINE | 138 FT |
| TO | WHITE DIAGONAL | 28 FT |
| | <u>THERMOPLASTIC (8", 90 MILS.)</u> | |
| T10 | 3 FT.-3FT./SP WHITE MINISKIP | 74 FT |
| | <u>THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS.)</u> | |
| UA | LEFT TURN ARROW | 1 EA |
| UN | 24" YIELD LINE TRIANGLE | 19 EA |

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

| | | |
|-----------|---------------|--------------|
| ROAD NAME | MARKING | MARKER |
| -L- | THERMOPLASTIC | SNOWPLOWABLE |
| -Y- LINES | THERMOPLASTIC | SNOWPLOWABLE |
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

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:

| STD. NO. | TITLE |
|----------|---|
| 1205.01 | PAVEMENT MARKINGS - LINE TYPES AND OFFSETS |
| 1205.02 | PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS |
| 1205.04 | PAVEMENT MARKINGS - INTERSECTIONS |
| 1205.07 | PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS |
| 1205.08 | PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES |
| 1205.14 | PAVEMENT MARKINGS - ROUNDABOUTS |
| 1250.01 | RAISED PAVEMENT MARKERS - INSTALLATION SPACING |
| 1253.01 | RAISED PAVEMENT MARKERS - SNOWPLOWABLE |

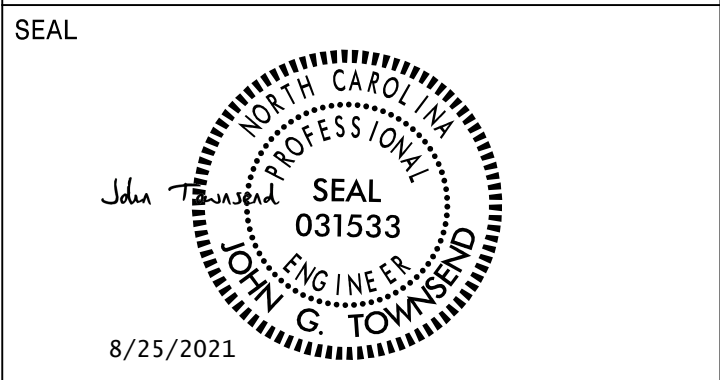
PLAN PREPARED BY: VHB Engineering NC, P.C.

John G. Townsend, PE PROJECT ENGINEER



Venture I
940 Main Campus Drive, Suite 500
Raleigh, NC 27606
NC License No. C-3705
919.829.0328

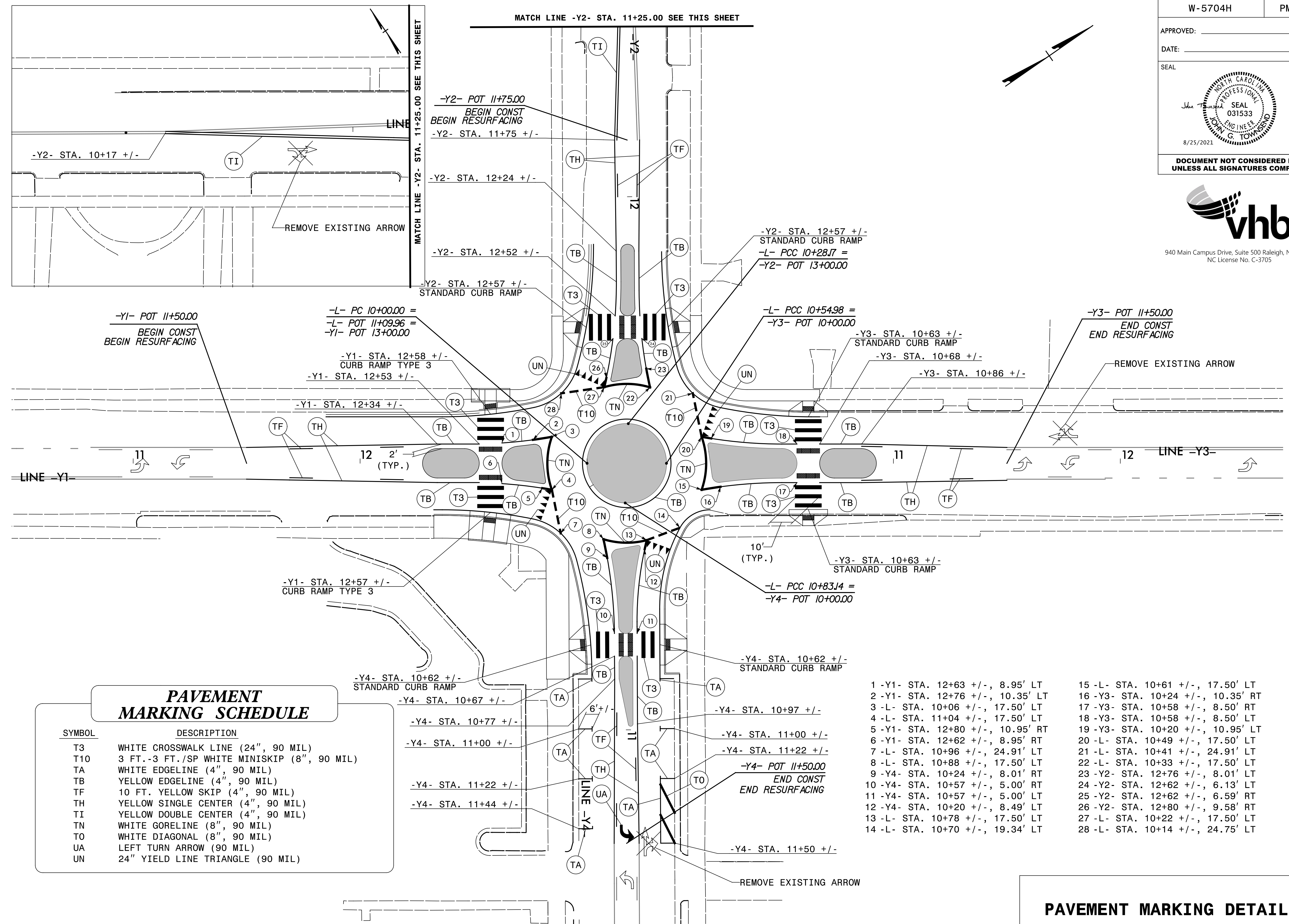
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 DATE: _____



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 NC License No. C-3705



| PAVEMENT MARKING SCHEDULE | |
|---------------------------|--|
| SYMBOL | DESCRIPTION |
| T3 | WHITE CROSSWALK LINE (24", 90 MIL) |
| T10 | 3 FT.-3 FT./SP WHITE MINISKIP (8", 90 MIL) |
| TA | WHITE EDGELINE (4", 90 MIL) |
| TB | YELLOW EDGELINE (4", 90 MIL) |
| TF | 10 FT. YELLOW SKIP (4", 90 MIL) |
| TH | YELLOW SINGLE CENTER (4", 90 MIL) |
| TI | YELLOW DOUBLE CENTER (4", 90 MIL) |
| TN | WHITE GORELINE (8", 90 MIL) |
| TO | WHITE DIAGONAL (8", 90 MIL) |
| UA | LEFT TURN ARROW (90 MIL) |
| UN | 24" YIELD LINE TRIANGLE (90 MIL) |

- 1 -Y1- STA. 12+63 +/-, 8.95' LT
- 2 -Y1- STA. 12+76 +/-, 10.35' LT
- 3 -L- STA. 10+06 +/-, 17.50' LT
- 4 -L- STA. 11+04 +/-, 17.50' LT
- 5 -Y1- STA. 12+80 +/-, 10.95' RT
- 6 -Y1- STA. 12+62 +/-, 8.95' RT
- 7 -L- STA. 10+96 +/-, 24.91' LT
- 8 -L- STA. 10+88 +/-, 17.50' LT
- 9 -Y4- STA. 10+24 +/-, 8.01' RT
- 10 -Y4- STA. 10+57 +/-, 5.00' RT
- 11 -Y4- STA. 10+57 +/-, 5.00' LT
- 12 -Y4- STA. 10+20 +/-, 8.49' LT
- 13 -L- STA. 10+78 +/-, 17.50' LT
- 14 -L- STA. 10+70 +/-, 19.34' LT
- 15 -L- STA. 10+61 +/-, 17.50' LT
- 16 -Y3- STA. 10+24 +/-, 10.35' RT
- 17 -Y3- STA. 10+58 +/-, 8.50' RT
- 18 -Y3- STA. 10+58 +/-, 8.50' LT
- 19 -Y3- STA. 10+20 +/-, 10.95' LT
- 20 -Y1- STA. 10+49 +/-, 17.50' LT
- 21 -L- STA. 10+41 +/-, 24.91' LT
- 22 -L- STA. 10+33 +/-, 17.50' LT
- 23 -Y2- STA. 12+76 +/-, 8.01' LT
- 24 -Y2- STA. 12+62 +/-, 6.13' LT
- 25 -Y2- STA. 12+62 +/-, 6.59' RT
- 26 -Y2- STA. 12+80 +/-, 9.58' RT
- 27 -L- STA. 10+22 +/-, 17.50' LT
- 28 -L- STA. 10+14 +/-, 24.75' LT


PAVEMENT MARKING DETAIL

8/25/2021
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 User:jtownsend

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
JOHNSTON COUNTY

LOCATION: US-301 /NC-242 (WALL STREET) AND NC-50 /NC-242 (MAIN STREET) INTERSECTION IN BENSON

| | |
|---|---------------------|
| PROJECT REFERENCE NO. W-5704H | SHEET NO. SIGN-1 |
| APPROVED: _____ | |
| DATE: _____ | |
| SEAL | |
|  | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

T.I.P.: W-5704H

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:

| STD. NO. | TITLE |
|----------|--|
| 903.10 | GROUND MOUNTED SIGN SUPPORTS |
| 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 CONTRACTOR
- . 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.

SUMMARY OF QUANTITIES

| ITEM NO. | ITEM DESCRIPTION | | QUANTITY | UNIT |
|------------|------------------|-------------------------------------|----------|------|
| DESC. NO. | SECT. NO. | | | |
| 4025000000 | 901 | CONTRACTOR FURNISHED, TYPE E SIGN | 101 | S.F. |
| 4072000000 | 903 | SUPPORTS, 3 LB STEEL U-CHANNEL | 240 | L.F. |
| 4102000000 | 904 | SIGN ERECTION, TYPE E | 12 | EA. |
| 4116100000 | 904 | SIGN ERECTION, RELOCATE SIGN TYPE E | 3 | EA. |
| 4116100000 | 904 | SIGN ERECTION, RELOCATE SIGN TYPE F | 3 | EA. |
| 4192000000 | 907 | DISPOSAL OF SUPPORT, U-CHANNEL | 6 | EA. |

PROJECT NOTES

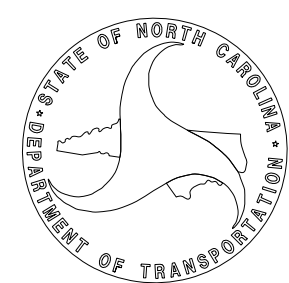
- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 2 DISPOSAL OF SUPPORT, U-CHANNEL
- 3 SIGN ERECTION, RELOCATE SIGN TYPE D, E, AND F
- 4 SIGN ERECTION, TYPE D, E, AND F

CONTRACT:

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

SIGNING & DELINEATION REGIONAL ENGINEER

SIGNING & DELINEATION PROJECT DESIGN ENGINEER



INDEX

| SHEET NO. | DESCRIPTION |
|-----------|---------------------|
| SIGN-1 | TITLE SHEET |
| SIGN-3 | F SHEET |
| SIGN-4-5 | SIGNING PLAN SHEETS |

APPROVED: _____

DATE: _____

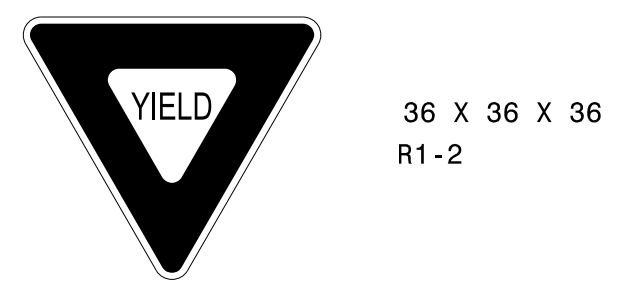
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8/25/2021

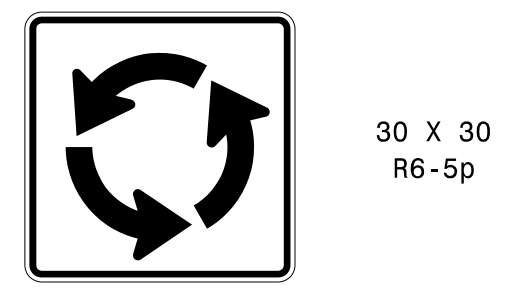
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401 QUANTITY REQ'D 4



ONE "U" POSTS PER SIGN

402 QUANTITY REQ'D 4



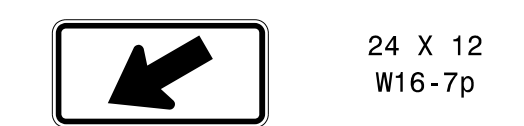
MOUNT BELOW SIGN 401
IN 4 INSTALLATIONS
ONE "U" POST PER SIGN

403 QUANTITY REQ'D 4



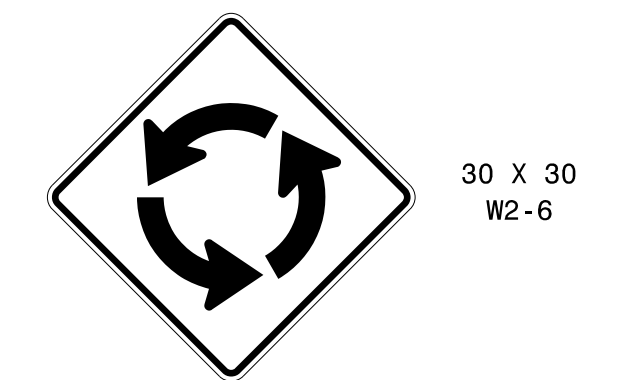
ONE "U" POST PER SIGN

404 QUANTITY REQ'D 4



MOUNT BELOW SIGN 403
IN 4 INSTALLATIONS
ONE "U" POST PER SIGN

405 QUANTITY REQ'D 4

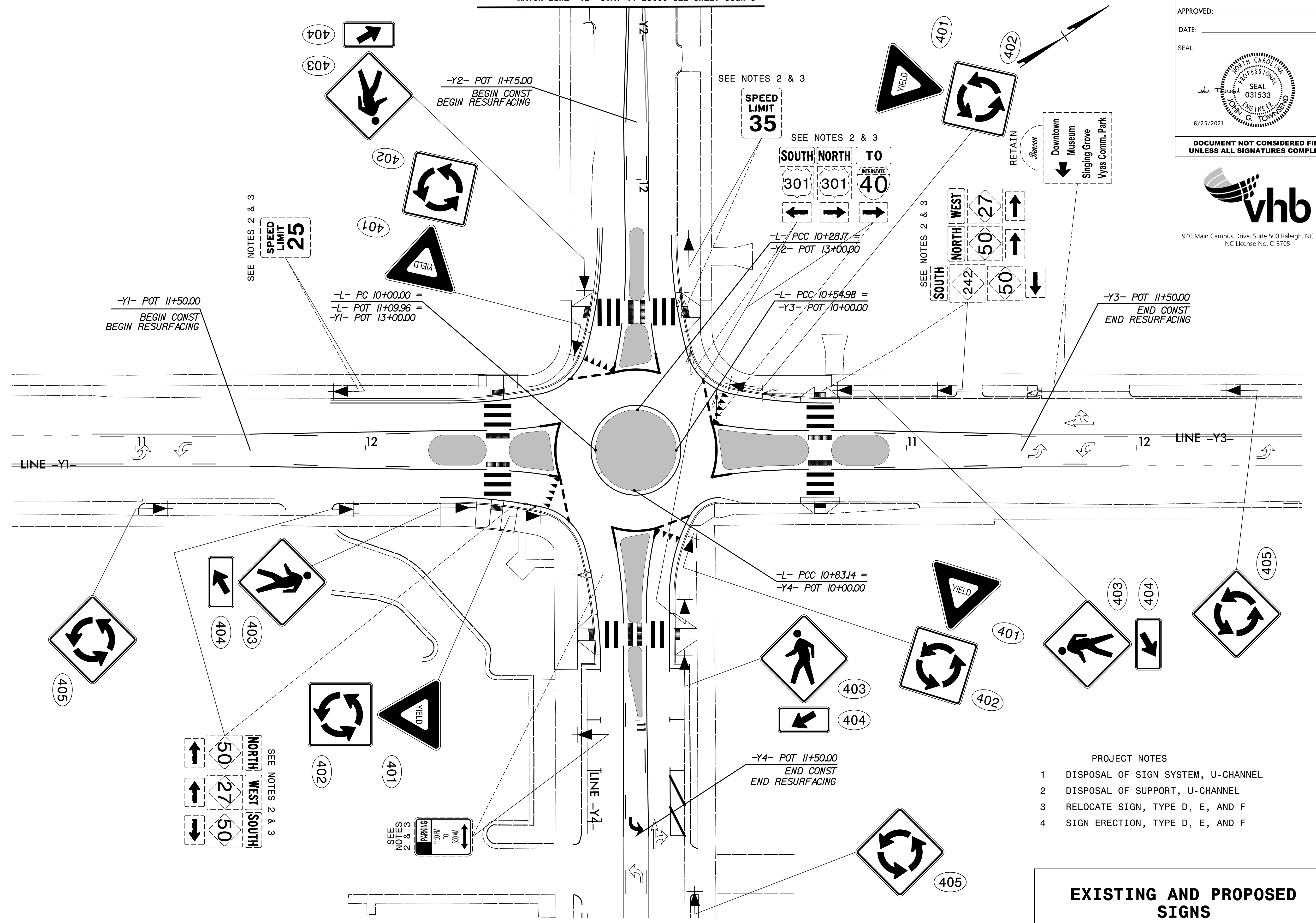


ONE "U" POST PER SIGN

TYPE "E" SIGNS



MATCH LINE -Y2- STA. 11+25.00 SEE SHEET SIGN-5



- PROJECT NOTES
- DISPOSAL OF SIGN SYSTEM, U-CHANNEL
 - DISPOSAL OF SUPPORT, U-CHANNEL
 - RELOCATE SIGN, TYPE D, E, AND F
 - SIGN ERECTION, TYPE D, E, AND F

EXISTING AND PROPOSED SIGNS

APPROVED: _____

DATE: _____

SEAL

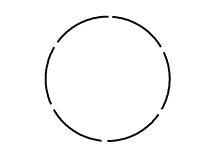
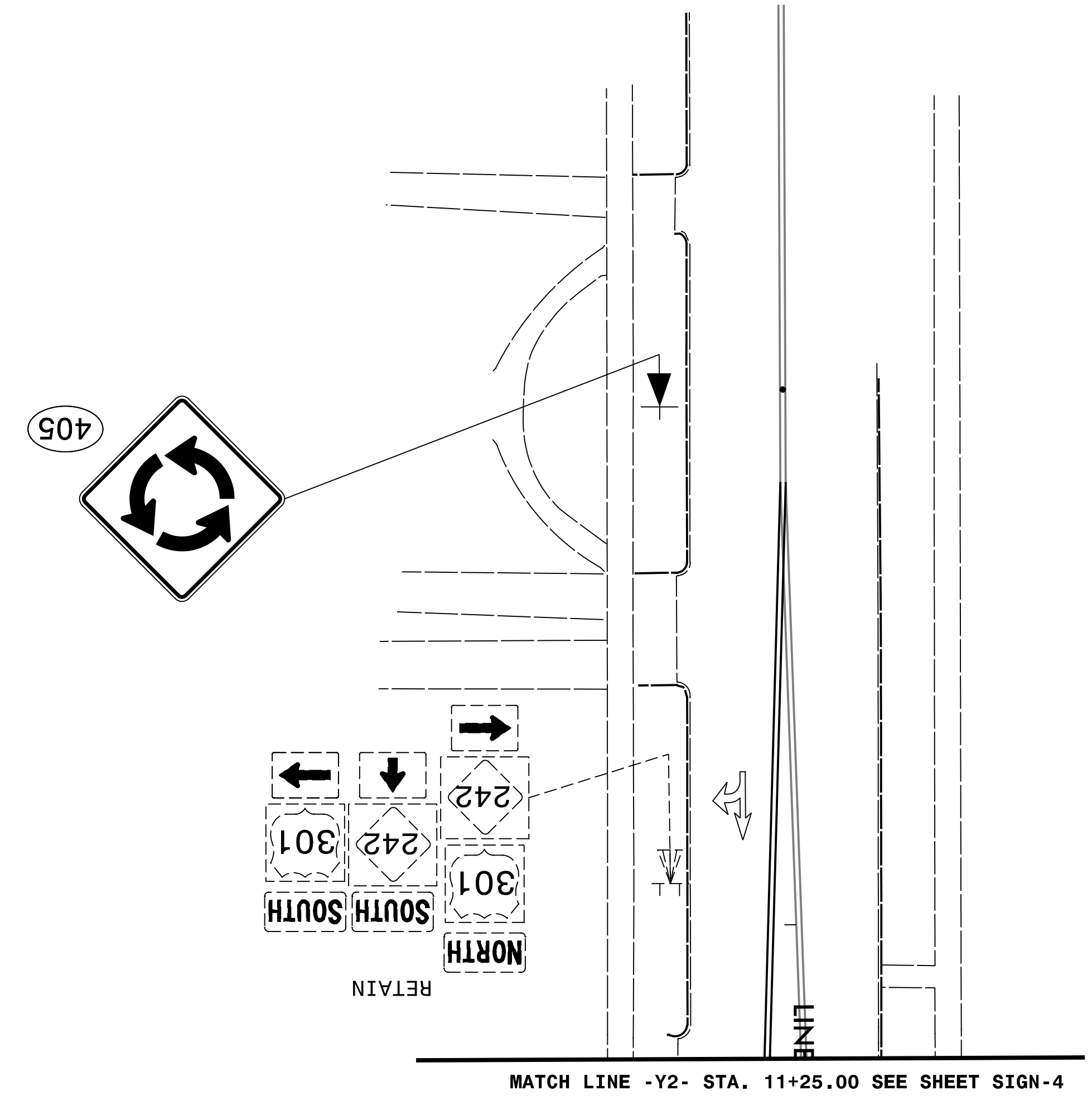
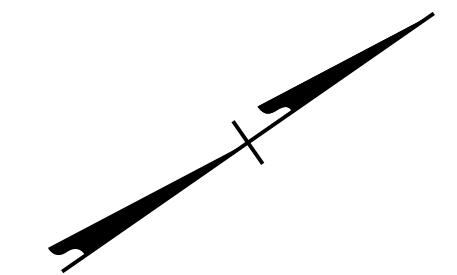


8/25/2021

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PROJECT NOTES

- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 2 DISPOSAL OF SUPPORT, U-CHANNEL
- 3 RELOCATE SIGN, TYPE D, E, AND F
- 4 SIGN ERECTION, TYPE D, E, AND F

**EXISTING AND PROPOSED
SIGNS**

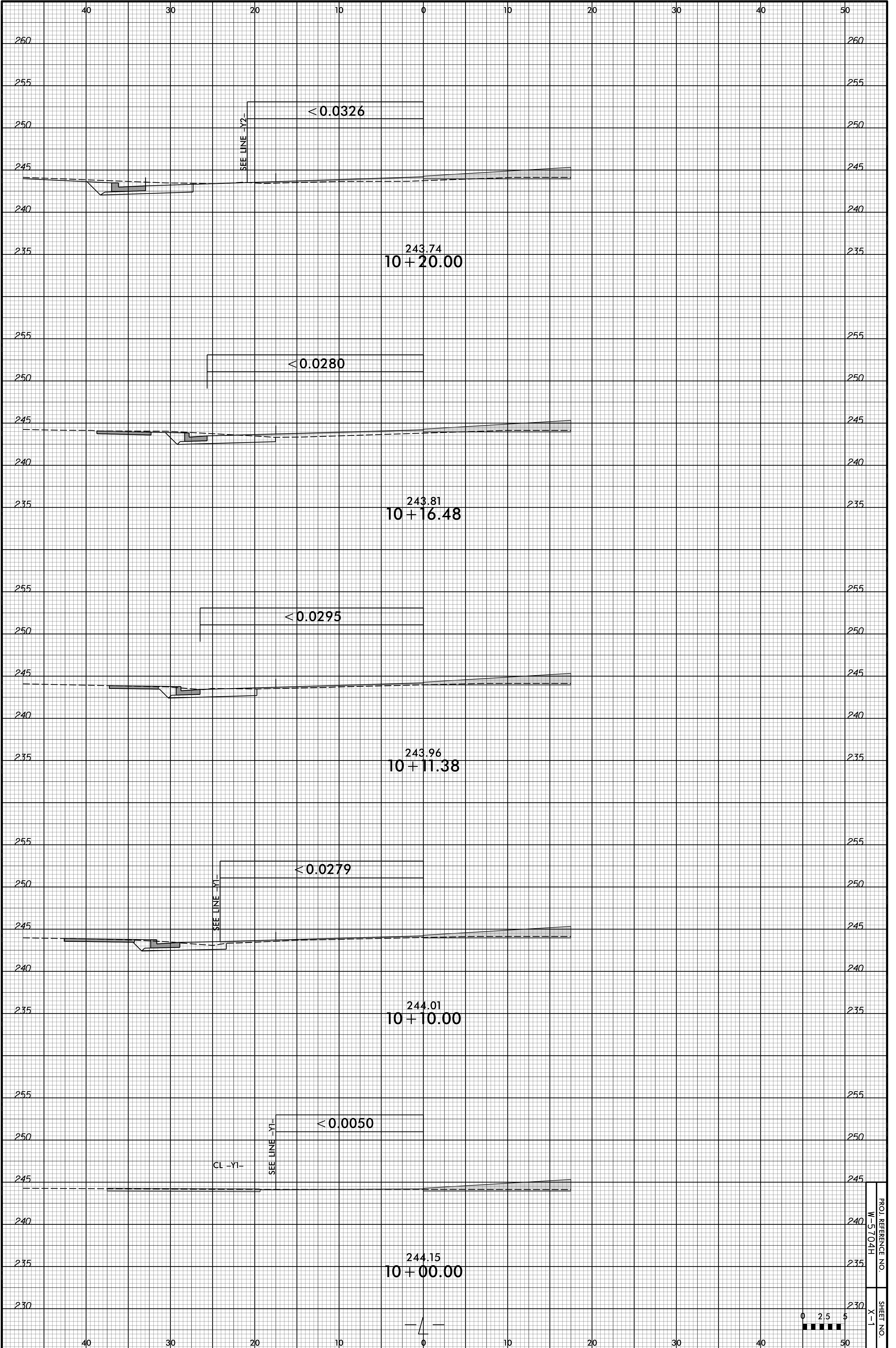
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS CROSS-SECTION SUMMARY

| | |
|--------------------------------|-------------------|
| PROJ. REFERENCE NO. W-5704H | SHEET NO. X-1A |
|--------------------------------|-------------------|

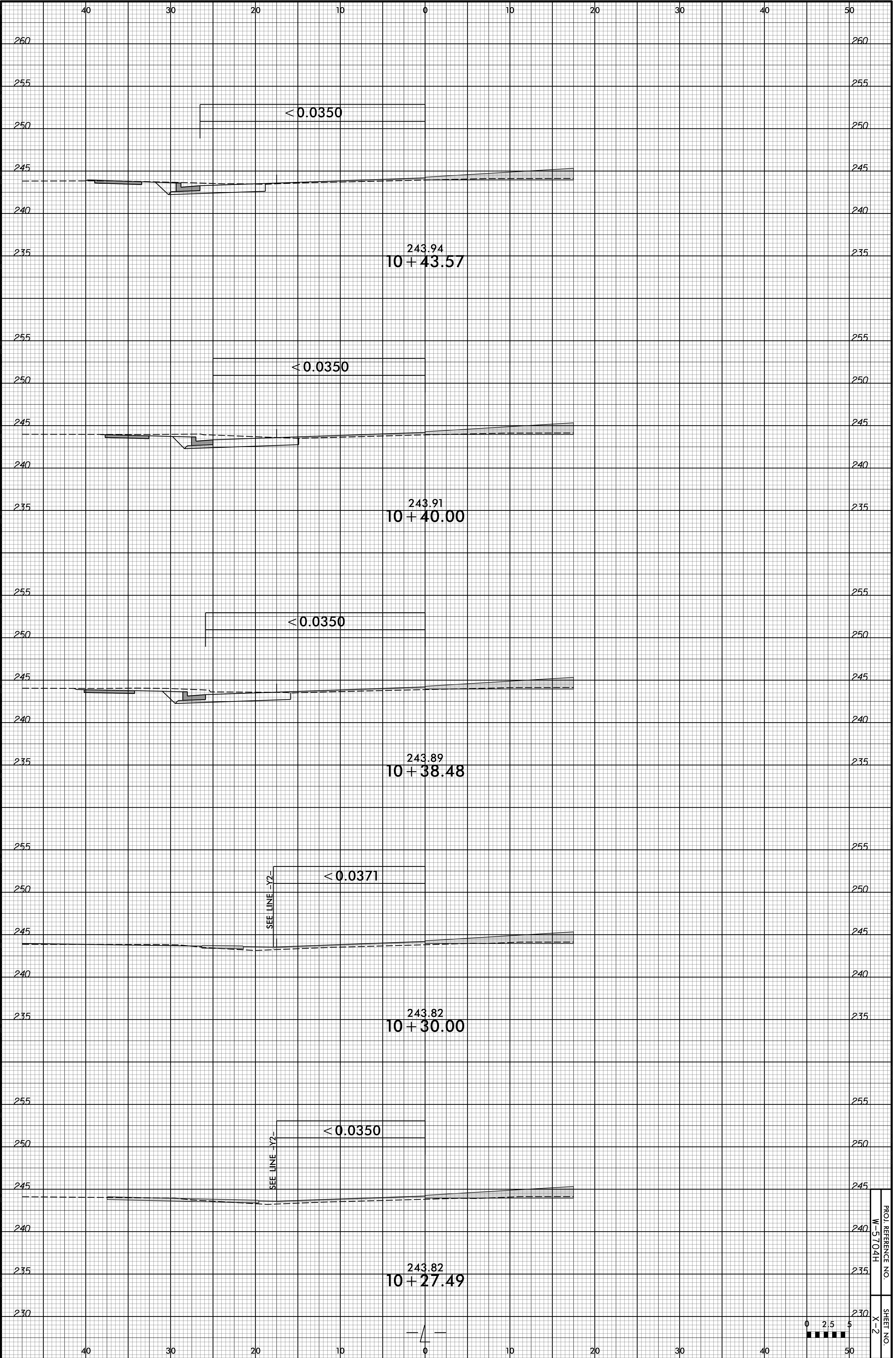
Quantities are approximate only. The Resident Engineer will recross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid.

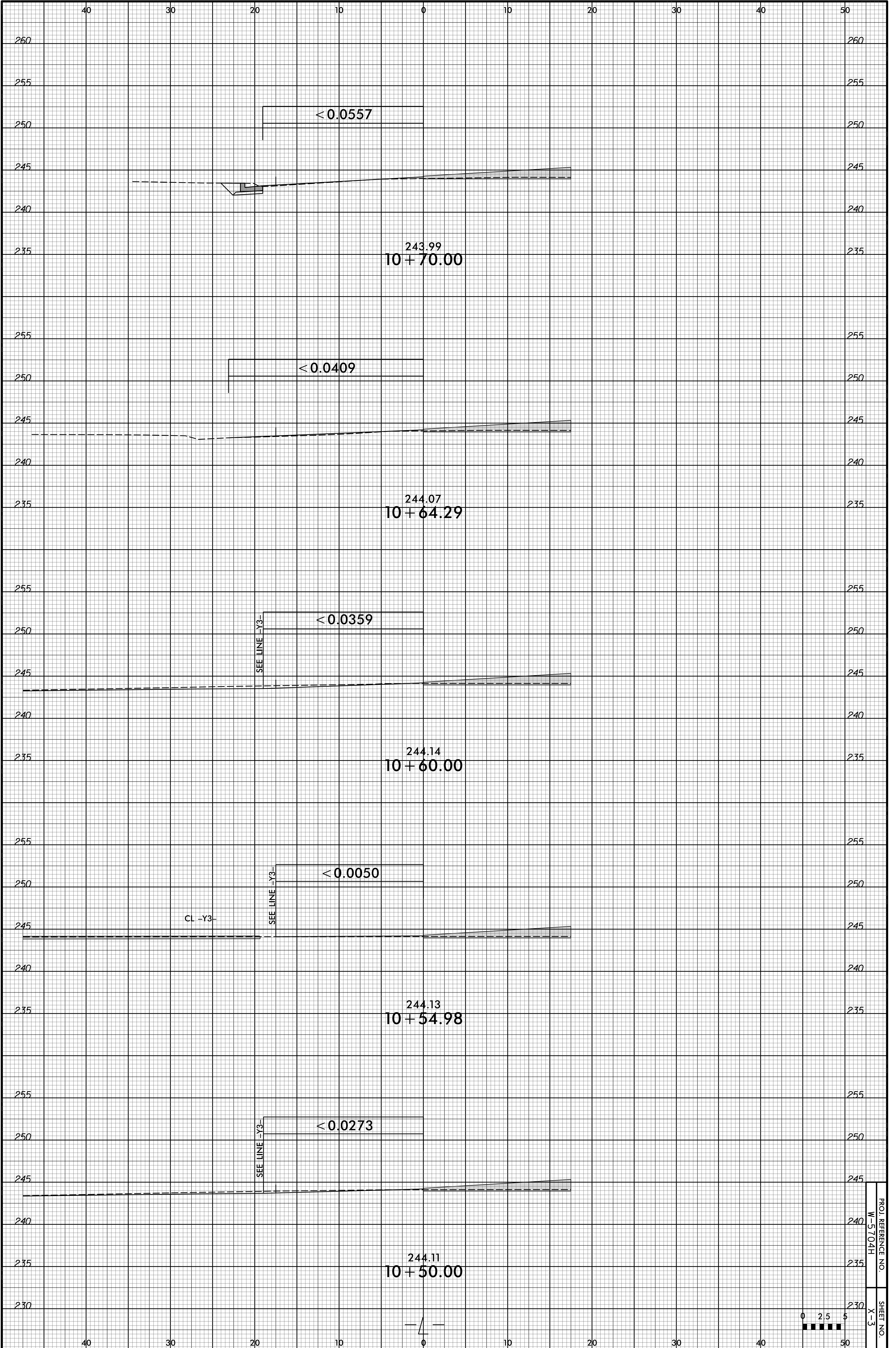
NOTE: EMBANKMENT COLUMN DOES NOT INCLUDES BACKFILL FOR UNDERCUT

| STATION L | UNCLASSIFIED EXCAVATION (CU YD) | EMBANKMENT (CU YD) | | STATION Y1 | UNCLASSIFIED EXCAVATION (CU YD) | EMBANKMENT (CU YD) | | STATION Y3 | UNCLASSIFIED EXCAVATION (CU YD) | EMBANKMENT (CU YD) | | STATION | UNCLASSIFIED EXCAVATION (CU YD) | EMBANKMENT (CU YD) | |
|--------------|---------------------------------------|-----------------------|--|---------------|---------------------------------------|-----------------------|--|---------------|---------------------------------------|-----------------------|--|---------|---------------------------------------|-----------------------|--|
| 10+00 | | | | 11+50 | | | | 10+18 | | | | | | | |
| 10+10 | 2 | | | 11+75 | | | | 10+50 | 17 | | | | | | |
| 10+20 | 6 | | | 12+00 | | | | 11+00 | 10 | | | | | | |
| 10+30 | 3 | | | 12+25 | | | | 11+50 | 10 | | | | | | |
| 10+40 | 4 | | | 12+50 | 3 | | | | | | | | | | |
| 10+50 | 4 | | | 12+75 | 12 | | | | | | | | | | |
| 10+60 | | | | 12+83 | 6 | | | | | | | | | | |
| 10+70 | 1 | | | | | | | | | | | | | | |
| 10+80 | 1 | | | | | | | | | | | | | | |
| 10+90 | 3 | | | | | | | | | | | | | | |
| 11+00 | 5 | | | | | | | | | | | | | | |
| 11+10 | 2 | | | | | | | | | | | | | | |
| | | | | STATION Y2 | UNCLASSIFIED EXCAVATION (CU YD) | EMBANKMENT (CU YD) | | STATION Y4 | UNCLASSIFIED EXCAVATION (CU YD) | EMBANKMENT (CU YD) | | | | | |
| | | | | 11+75 | | | | 10+18 | | | | | | | |
| | | | | 12+00 | | | | 10+50 | 22 | 1 | | | | | |
| | | | | 12+50 | 5 | | | 11+00 | 22 | 2 | | | | | |
| | | | | 12+83 | 24 | | | 11+50 | 22 | | | | | | |

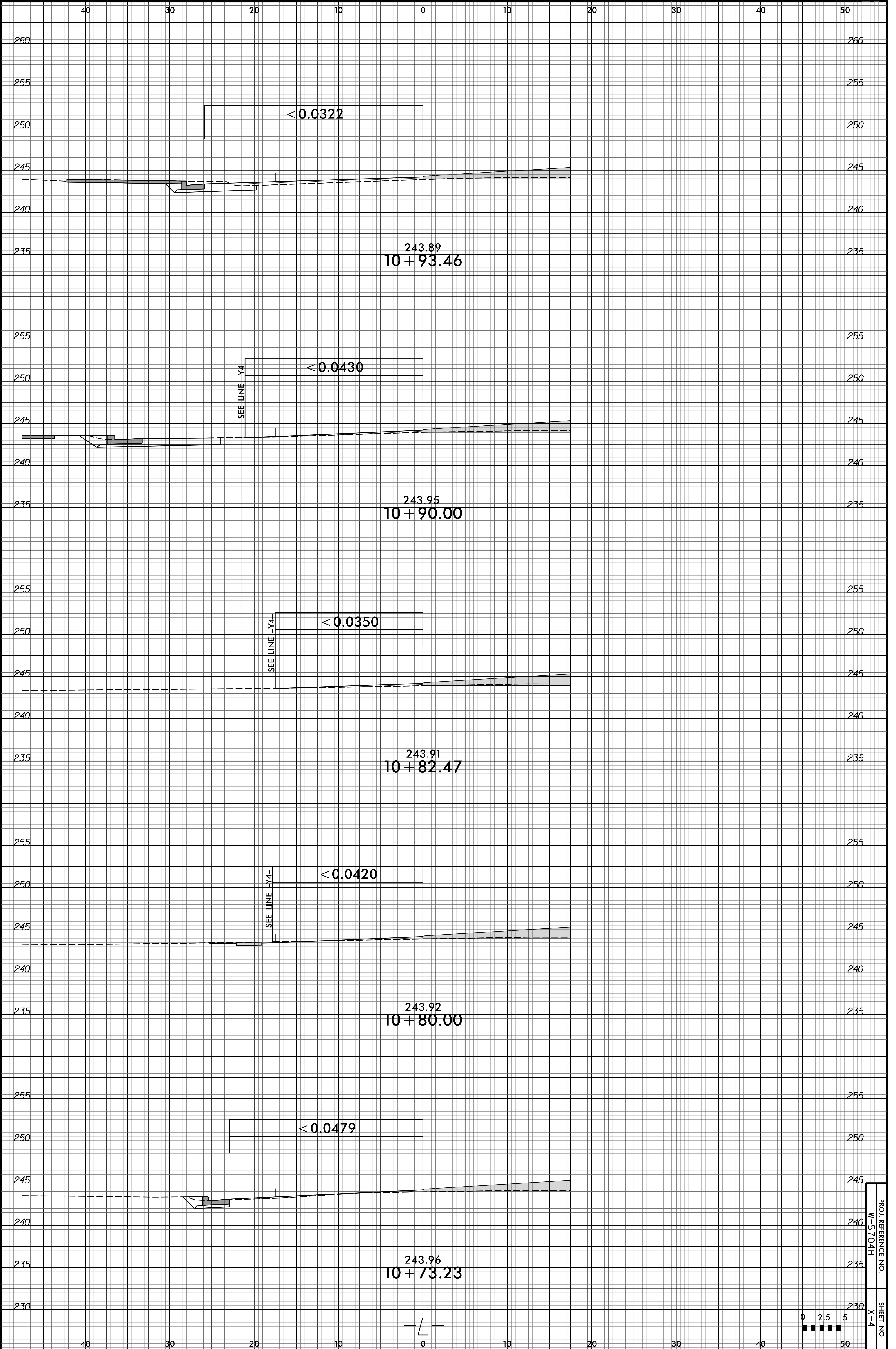


PROJ. REFERENCE NO. W-5704H
SHEET NO. X-1

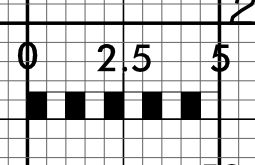


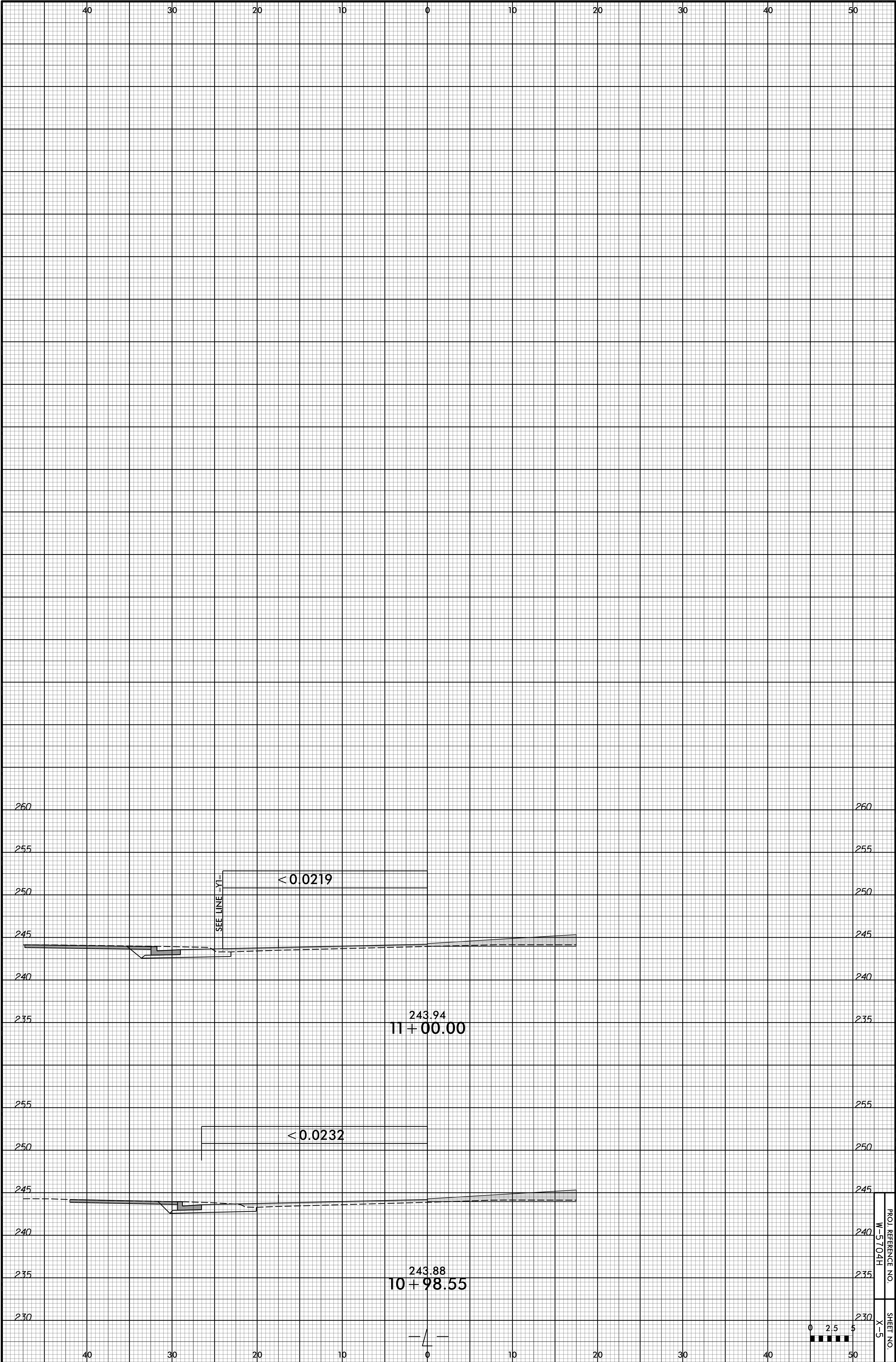


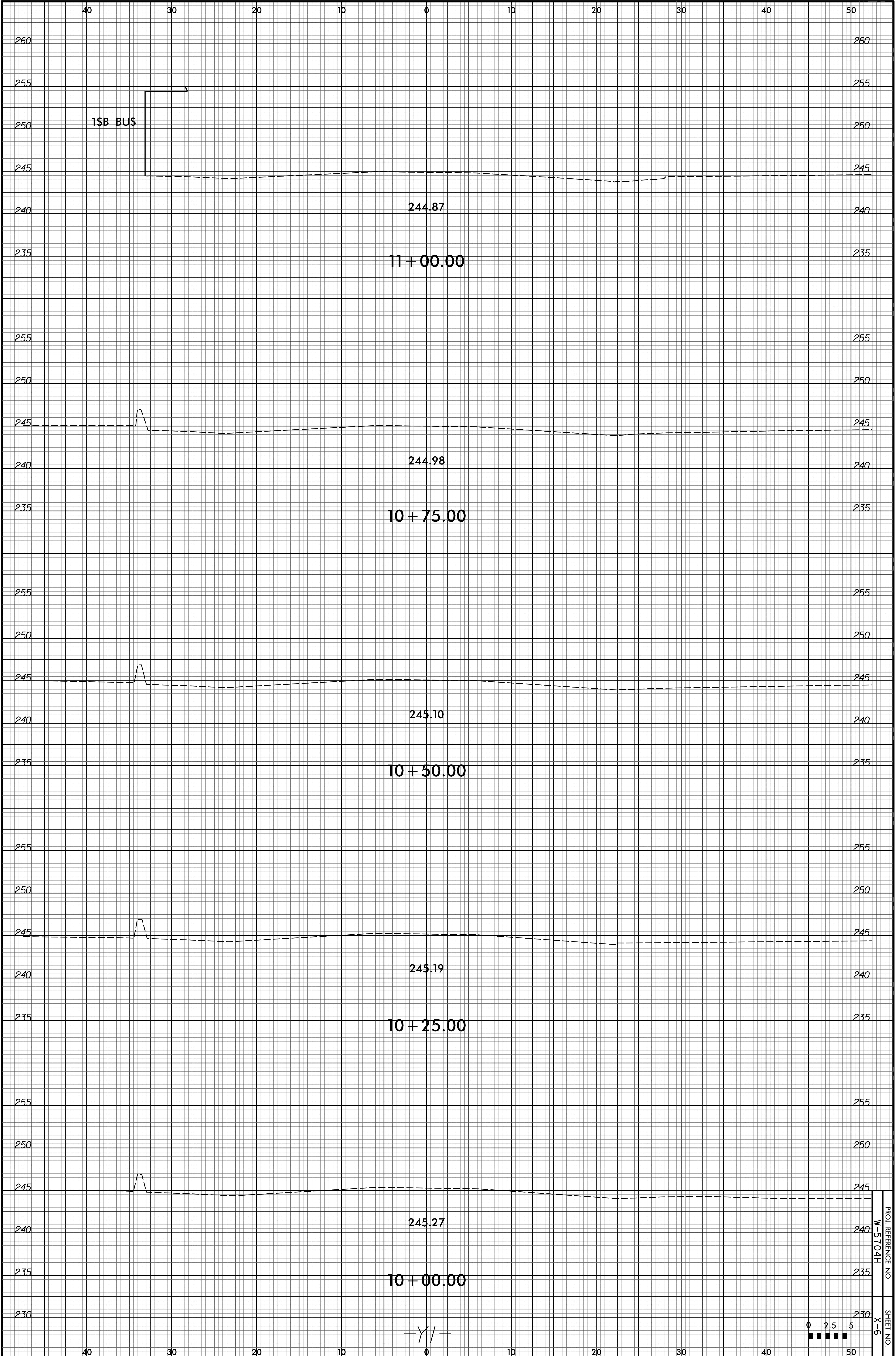
PROJ. REFERENCE NO. W-5704H
SHEET NO. X-3



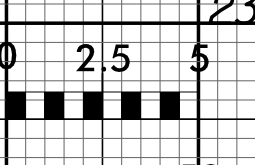
PROJ. REFERENCE NO. W-5704H
SHEET NO. X-4



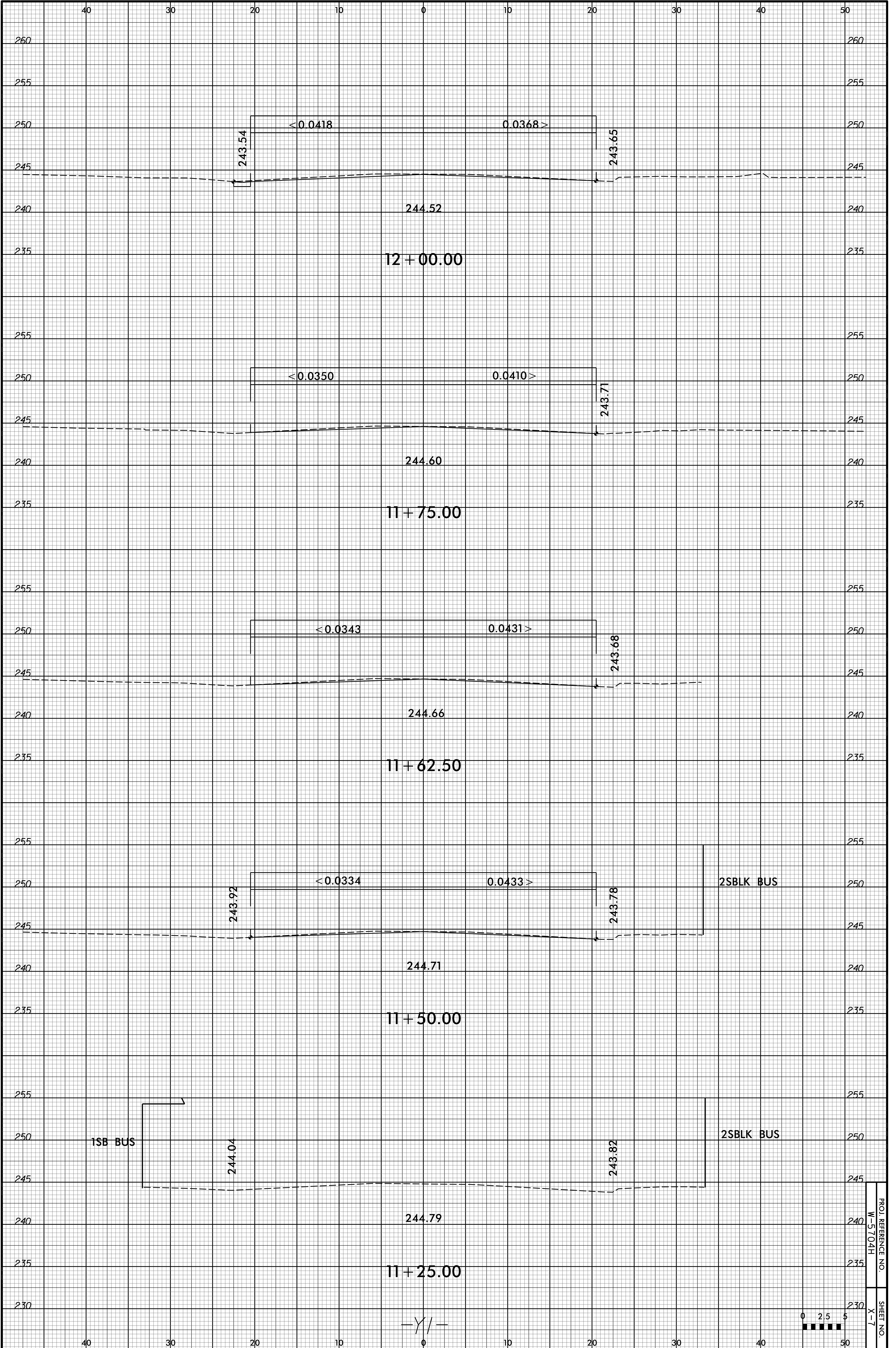




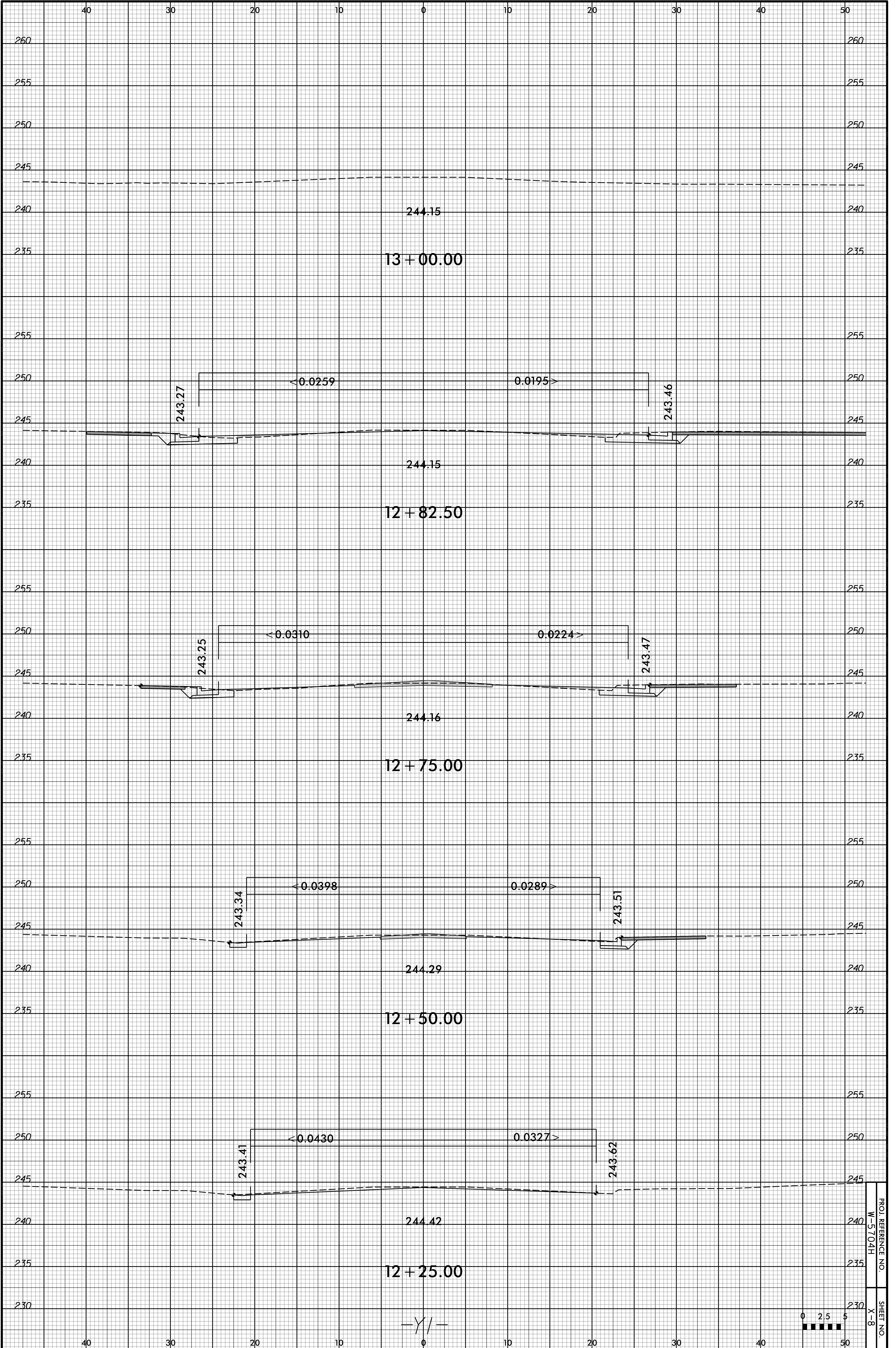
PROJ. REFERENCE NO. W-5704H
SHEET NO. X-6



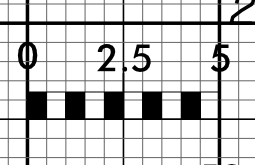
-Y/-

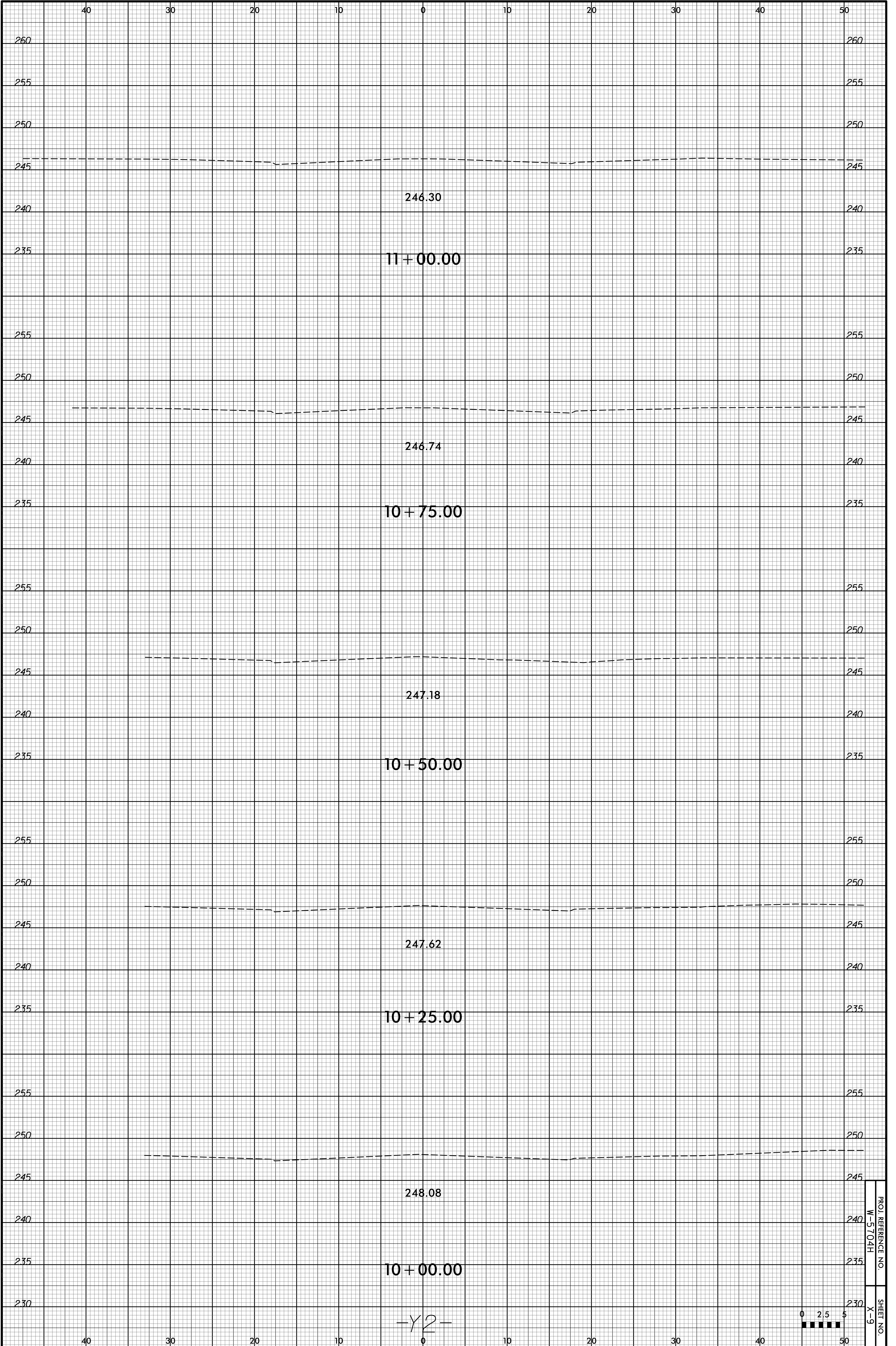


PROJ. REFERENCE NO. W-5704H
SHEET NO. X-7



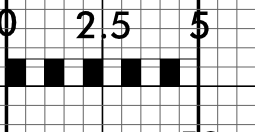
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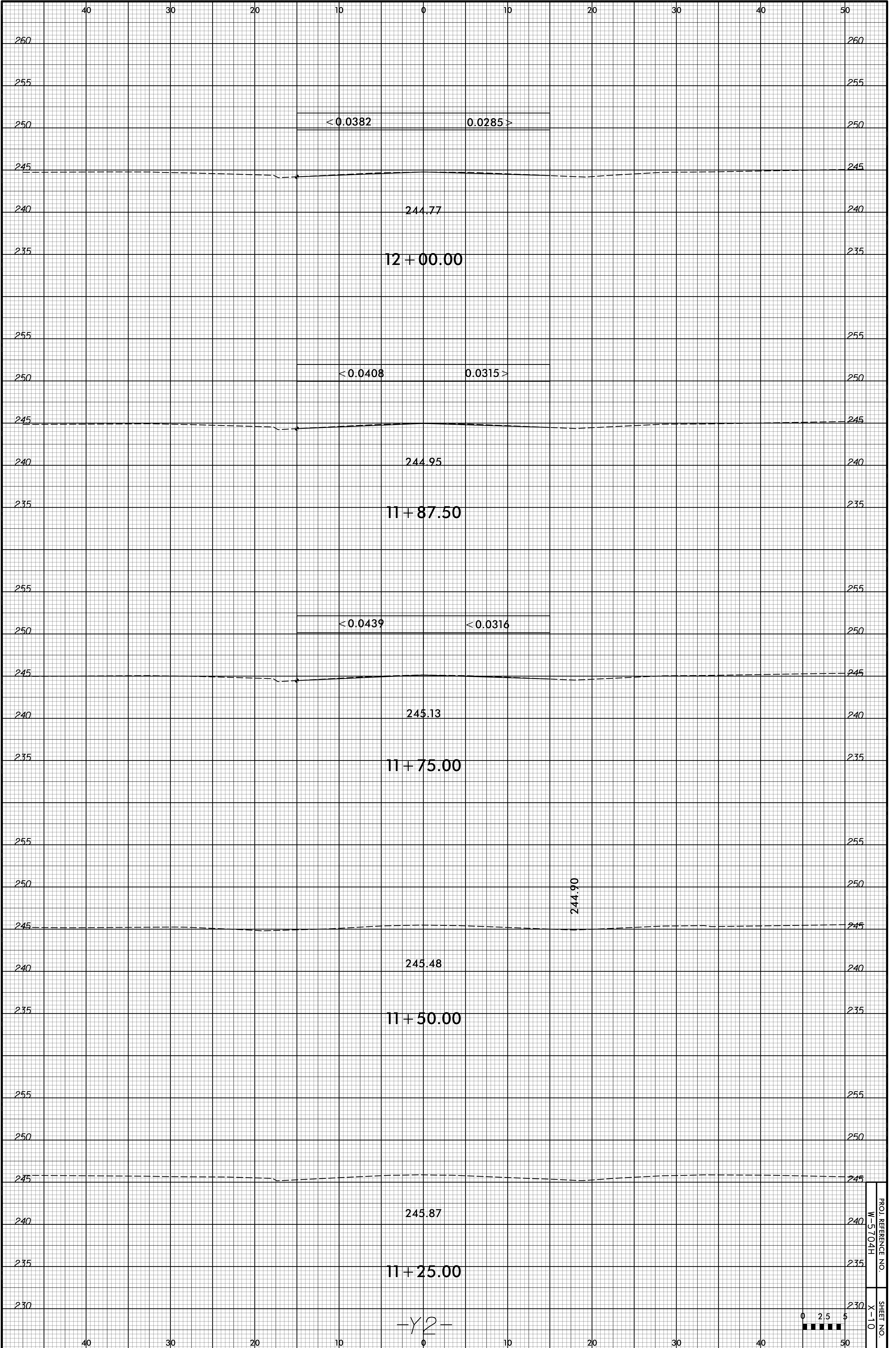




PROJ. REFERENCE NO. W-5704H
SHEET NO. X-9

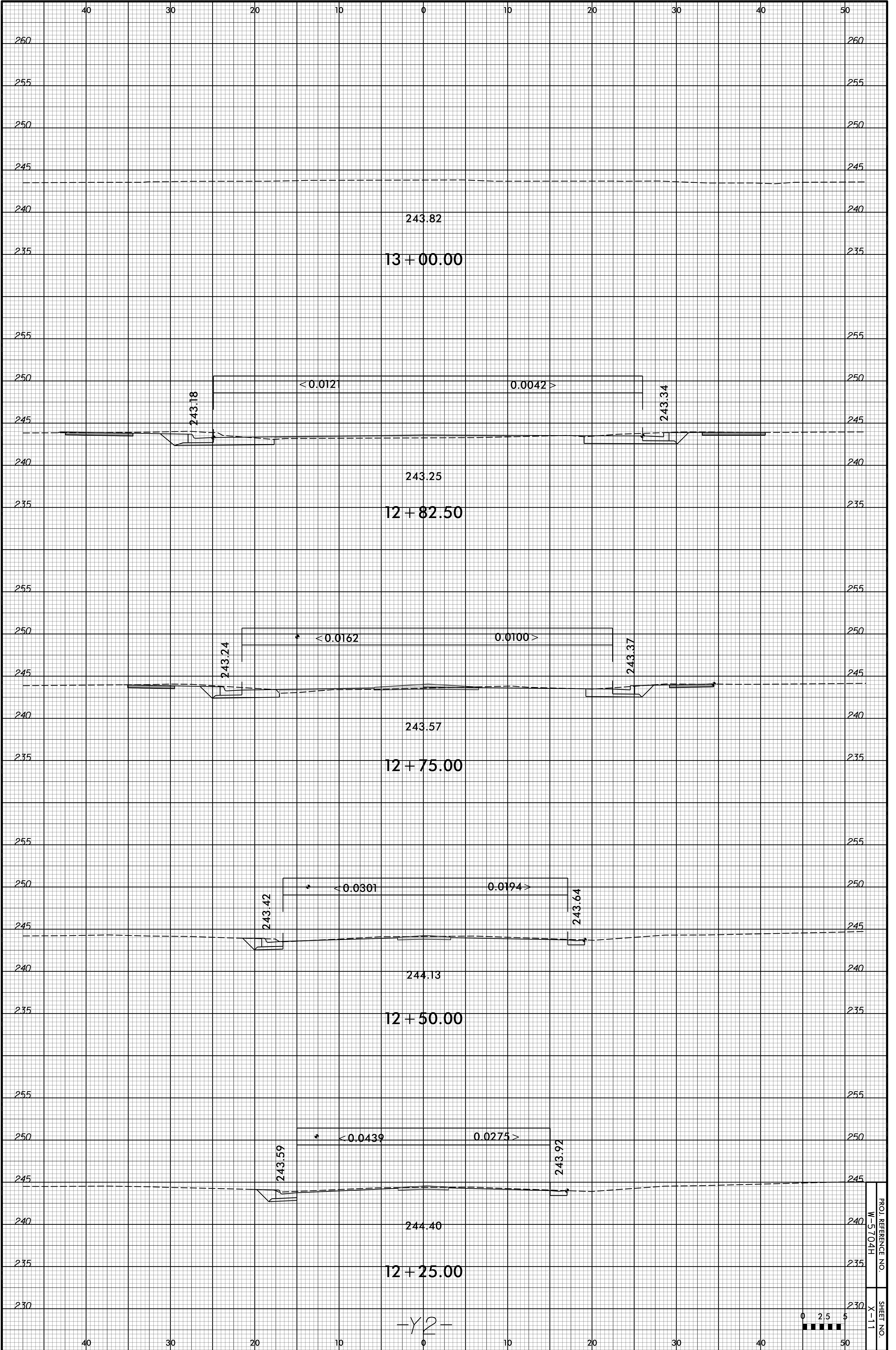
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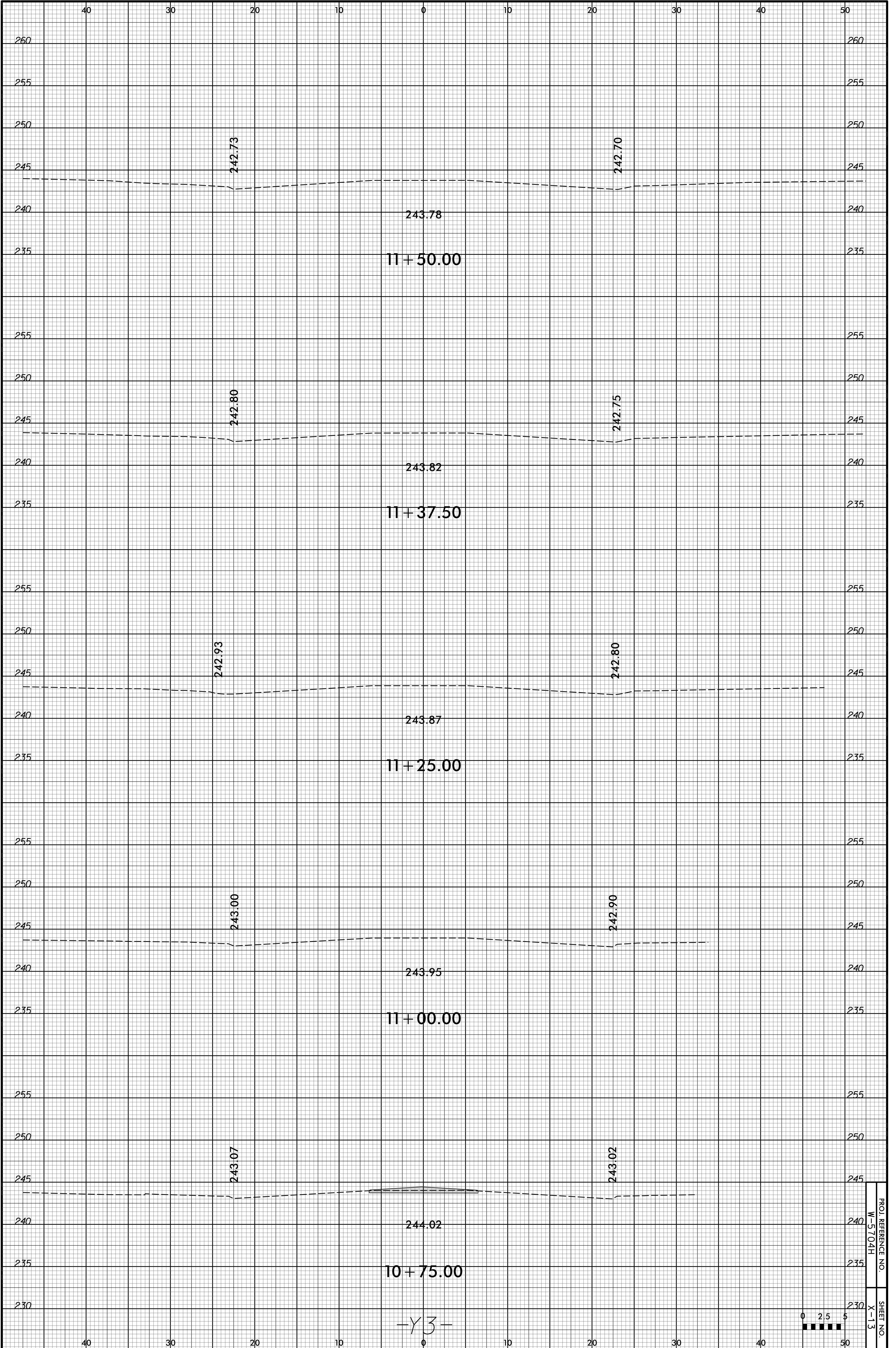


-Y2-

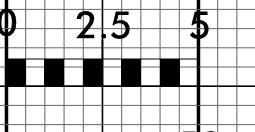
PROJ. REFERENCE NO. W-5704H
SHEET NO. X-10



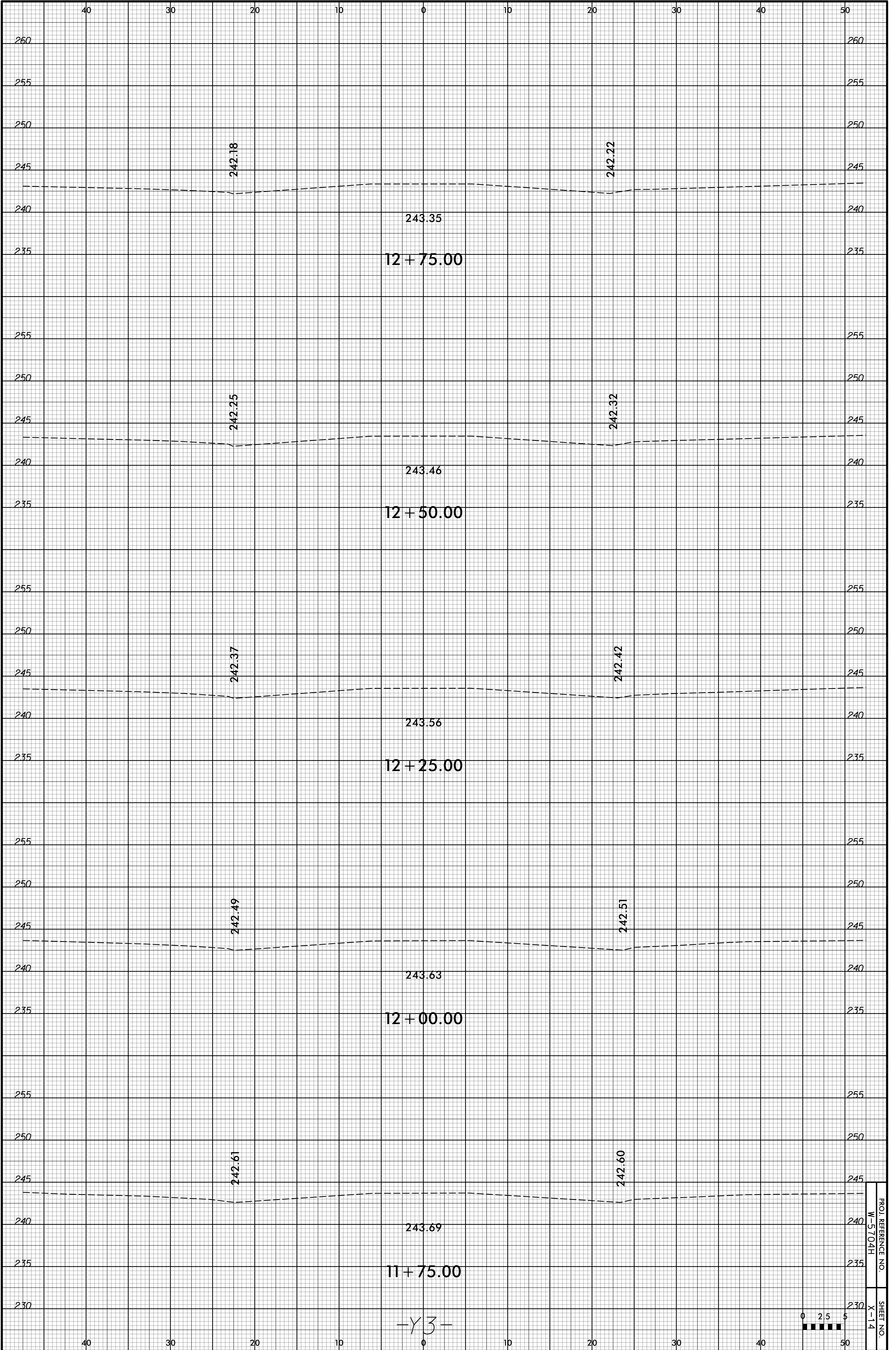
PROJ. REFERENCE NO. W-5704H
SHEET NO. X-11

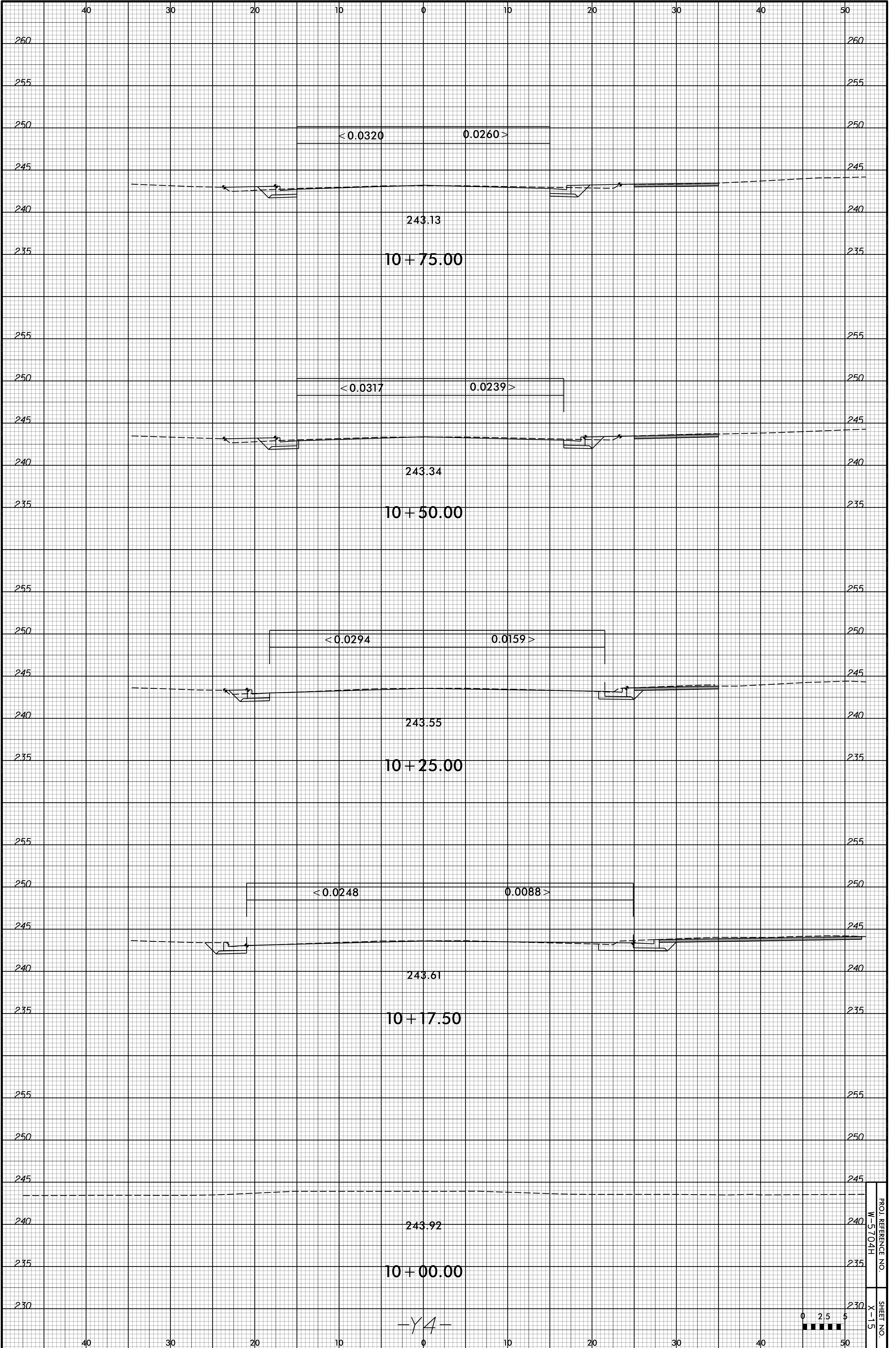


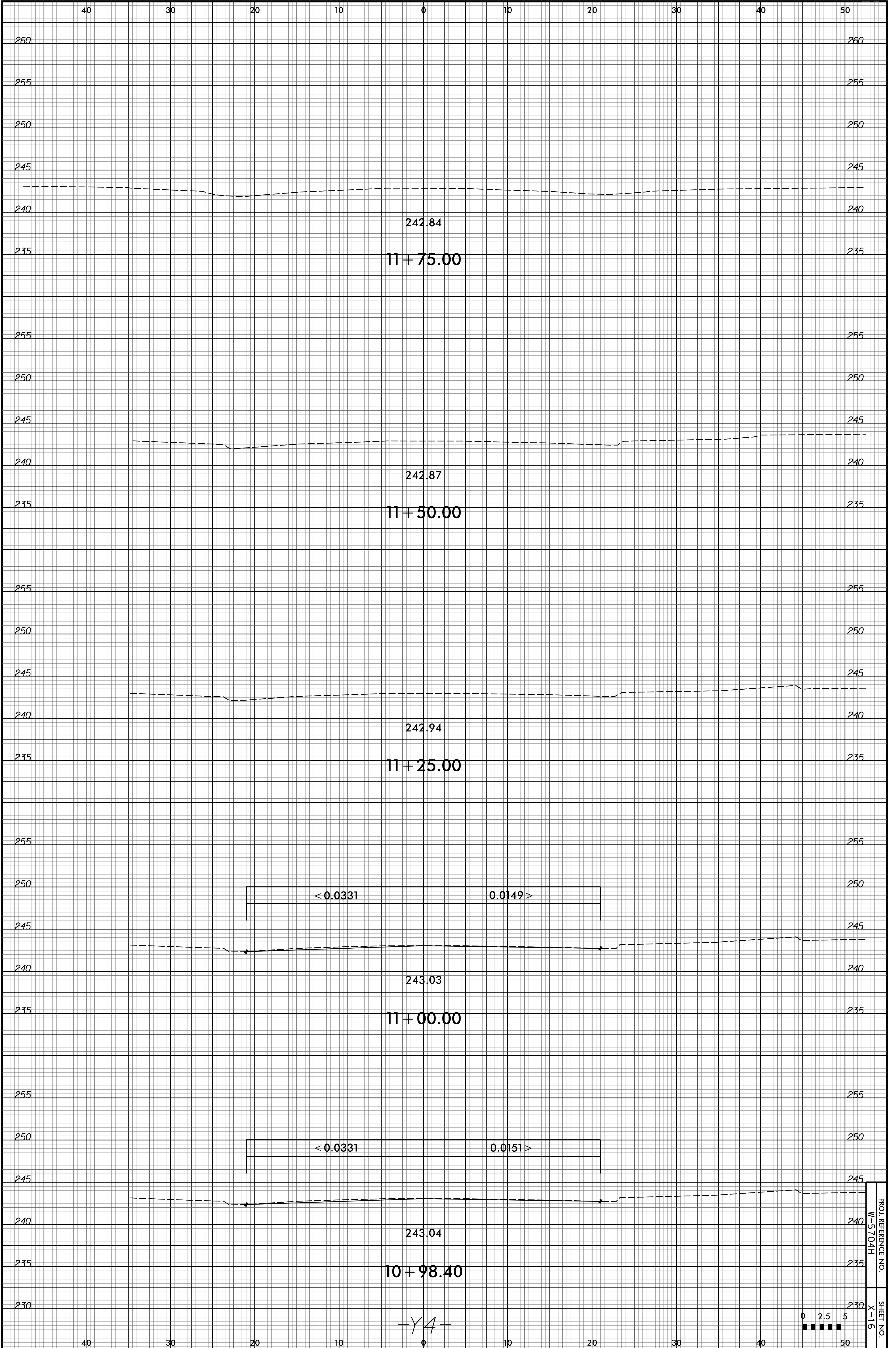
-Y3-



PROJ. REFERENCE NO. W-5704H
SHEET NO. X-13







PROJ. REFERENCE NO. W-5704H
SHEET NO. X-16

