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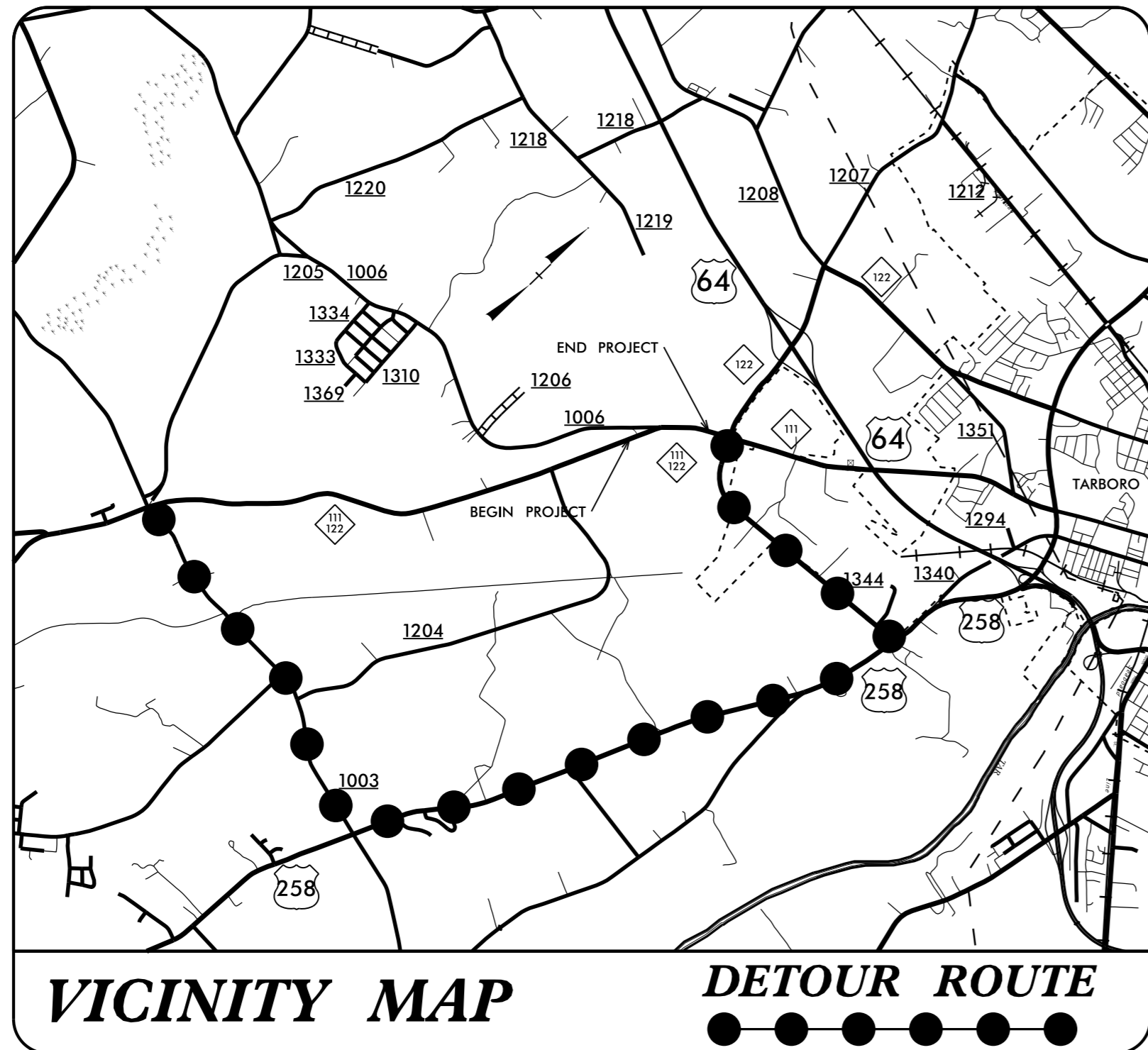
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04-FEB-2019 13:17 \\dot\dfsroot\01\Proj\Store\Div\Proj\Division04\W5601DN\Roadway\Proj\W-5601DN\_DDC4\_TSH.dgn \$\$\$USERNAME\$\$\$

**CONTRACT: DD00297** **TIP PROJECT: W-5601DN**

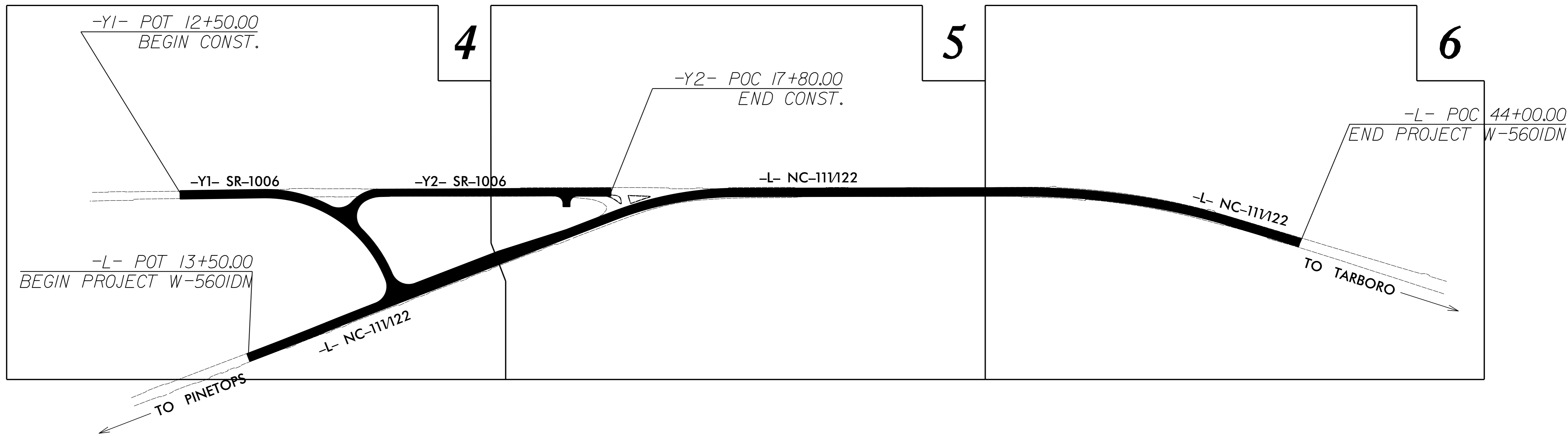
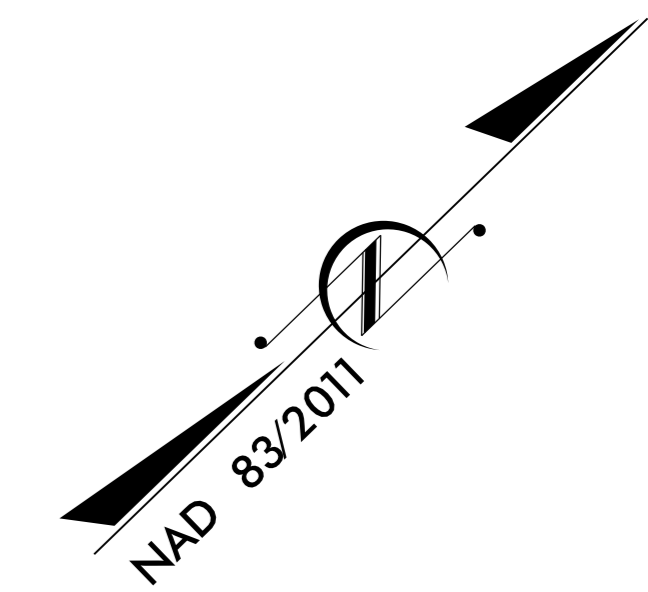
See Sheet 1-A For Index of Sheets



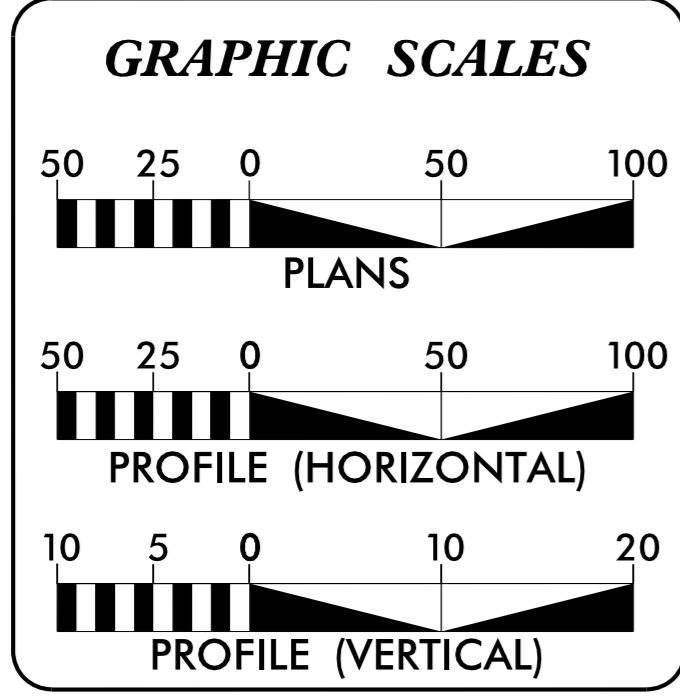
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
**EDGECOMBE COUNTY**

**LOCATION: NC 111/NC 122 BETWEEN 0.19 MI SOUTH OF SR 1006  
(MCKENDREE CHURCH ROAD) AND 0.36 MI NORTH OF  
SR 1006 (MCKENDREE CHURCH ROAD).  
TYPE OF WORK: GRADING, PAVING AND DRAINAGE**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5601DN	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50138.1.119	HSIP-0111(022)	PE	
50138.2.119	HSIP-0111(022)	RW & UTILITY	
50138.3.119	HSIP-0111(022)	CONST.	



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



**DESIGN DATA**  
ADT 2015 = 6400  
  
V = 55 MPH

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT W-5601DN = 0.578 MI.  
TOTAL LENGTH TIP PROJECT W-5601DN = 0.578 MI.

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

2018 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
FEBRUARY 27, 2018

**LETTING DATE:**  
FEBRUARY 26, 2019

**RONNIE KEETER, PE**  
PROJECT ENGINEER

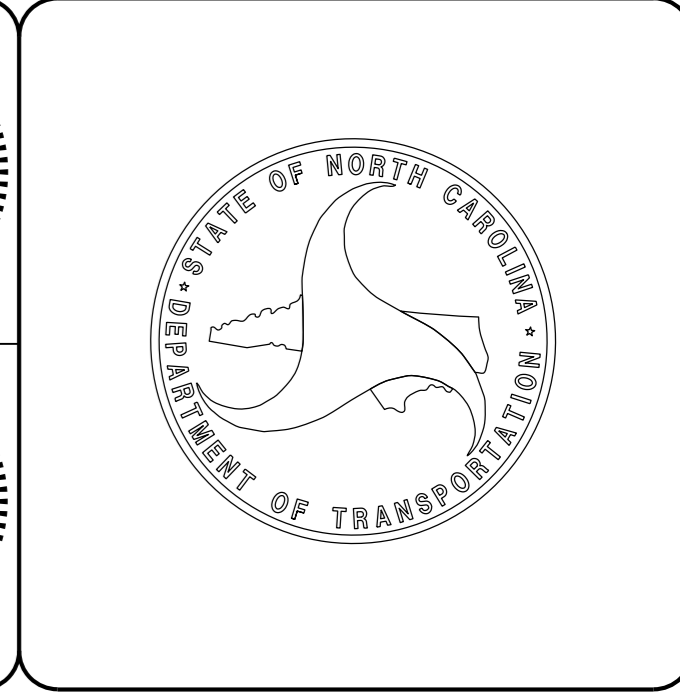
**D.R. ETHRIDGE**  
PROJECT DESIGN ENGINEER

**HYDRAULICS ENGINEER**  
2/4/2019

DocuSigned by:  
*William G. Gandy*  
20190204114205  
SIGNATURE:

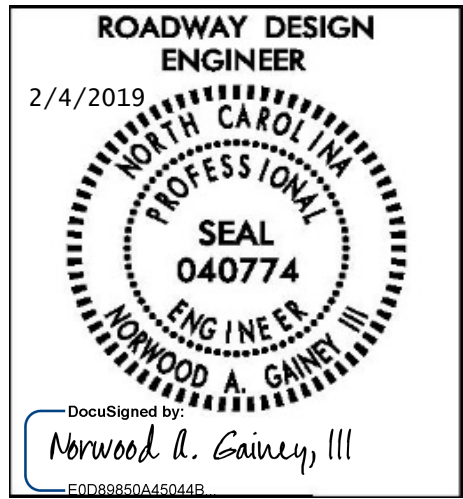
**ROADWAY DESIGN ENGINEER**  
2/4/2019

DocuSigned by:  
*Norwood A. Gandy III*  
20190204114205  
SIGNATURE:



# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PROJ. REFERENCE NO. W-5601DN	SHEET NO. 1-A
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SHEET NUMBER	INDEX OF SHEETS SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1 THRU 2A-2	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
3B-1	ROADWAY SUMMARIES - EARTHWORK, PARCEL INDEX AND PAVEMENT REMOVAL.
3D-1	DRAINAGE SUMMARIES
4 THRU 6	PLAN SHEET
7 THRU 9	PROFILE SHEET
RW-1 THRU RW-6	RIGHT OF WAY PLANS
TMP-1	TRANSPORTATION MANAGEMENT PLANS
PM-1 THRU PM-3	PAVEMENT MARKING PLANS
EC-1 THRU EC-9	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-7	SIGNING PLANS
UC-1 THRU UC-6	UTILITY CONSTRUCTION PLANS
X-1A	CROSS-SECTION SUMMARY
X-1 THRU X-23	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
  - 200.03 METHOD OF CLEARING - METHOD III
  - 225.02 GUIDE FOR GRADING SUBGRADE - SECONDARY AND LOCAL
  - 225.04 METHOD OF OBTAINING SUPERELEVATION - TWO LANE PAVEMENT
  - 225.06 METHOD OF GRADING SIGHT DISTANCE AT INTERSECTIONS
- DIVISION 3 - PIPE CULVERTS
  - 300.01 METHOD OF PIPE INSTALLATION
  - 310.10 DRIVEWAY PIPE CONSTRUCTION
- DIVISION 5 - SUBGRADE, BASES AND SHOULDERS
  - 560.01 METHOD OF SHOULDER CONSTRUCTION - HIGH SIDE OF SUPERELEVATED CURVE - METHOD I
- DIVISION 6 - ASPHALT BASES AND PAVEMENTS
  - 654.01 PAVEMENT REPAIRS
- DIVISION 8 - INCIDENTALS
  - 806.01 CONCRETE RIGHT-OF-WAY MARKER
  - 806.02 GRANITE RIGHT-OF-WAY MARKER
  - 838.21 REINFORCED CONCRETE ENDWALL - FOR SINGLE 54" PIPE 90 SKEW
  - 838.27 REINFORCED CONCRETE ENDWALL - FOR SINGLE 60" PIPE 90 SKEW
  - 838.45 NOTES FOR REINFORCED CONCRETE ENDWALL - STD. DWG 838.21 THRU 838.40
  - 838.51 REINFORCED BRICK ENDWALL - FOR SINGLE 54" PIPE 90 SKEW
  - 838.57 REINFORCED BRICK ENDWALL - FOR SINGLE 60" PIPE 90 SKEW
  - 838.75 NOTES FOR REINFORCED BRICK ENDWALL - STD. DWG 838.51 THRU 838.70
  - 838.80 PRECAST ENDWALLS - 12" THRU 72" PIPE 90 SKEW
  - 840.71 CONCRETE AND BRICK PIPE PLUG
  - 840.72 PIPE COLLAR
  - 876.01 RIP RAP IN CHANNELS
  - 876.02 GUIDE FOR RIP RAP AT PIPE OUTLETS
  - 876.04 DRAINAGE DITCHES WITH CLASS 'B' RIP RAP

**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 III.
- SUPERELEVATION:**
  - ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04. USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.
- SHOULDER CONSTRUCTION:**
  - ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01
- 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:  
CENTURYLINK, TOWN OF TARBORO(WATER&POWER) AND EDGEcombe CO (WATER).
- RIGHT-OF-WAY MARKERS:**
  - ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY CONTRACT.

# 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	□ ECM
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	○ S
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	-----

## 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	-----
New Right of Way Line with Pin and Cap	-----
New Right of Way Line with Concrete or Granite RW Marker	-----
New Control of Access Line with Concrete C/A Marker	-----
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	☼

Note: Not to Scale

\*S.U.E. = Subsurface Utility Engineering

Hedge	-----
Woods Line	-----
Orchard	-----
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	○ S
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.*)	-----
U/G Water Line LOS C (S.U.E.*)	-----
U/G Water Line LOS D (S.U.E.*)	-----
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:

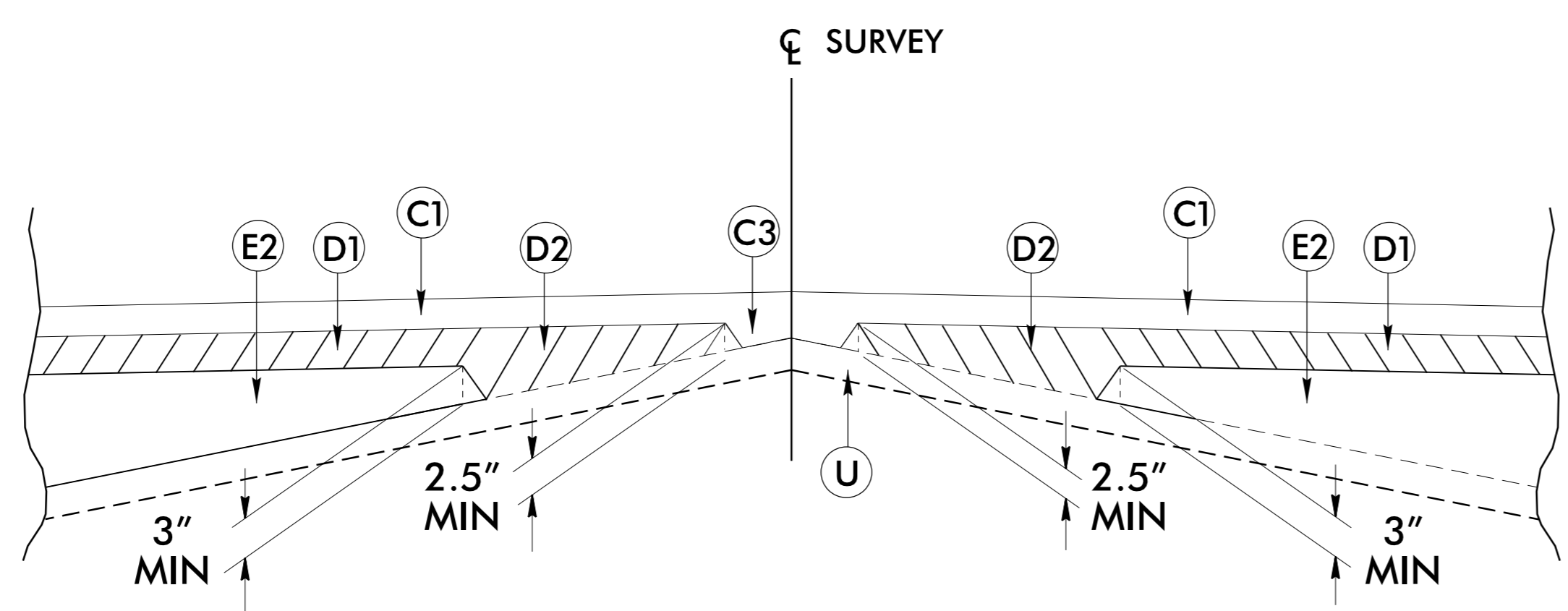
Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	----- SS
Above Ground Sanitary Sewer	----- A/G Sanitary Sewer
SS Forced Main Line LOS B (S.U.E.*)	----- FSS
SS Forced Main Line LOS C (S.U.E.*)	----- FSS
SS Forced Main Line LOS D (S.U.E.*)	----- FSS

## MISCELLANEOUS:

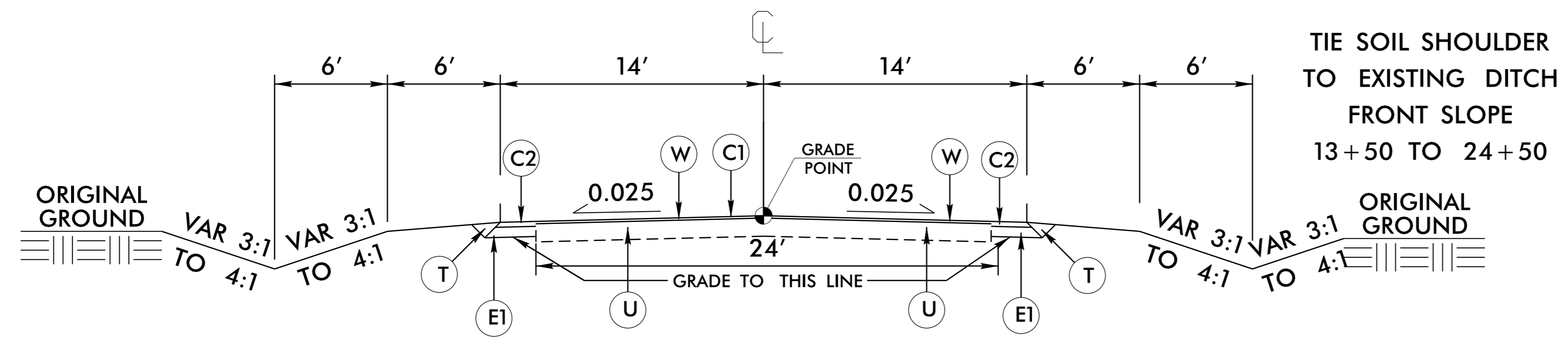
Utility Pole	●
Utility Pole with Base	⊠
Utility Located Object	○
Utility Traffic Signal Box	⊠
Utility Unknown U/G Line LOS B (S.U.E.*)	----- ?UTL
U/G Tank; Water, Gas, Oil	-----
Underground Storage Tank, Approx. Loc.	⊕ UST
A/G Tank; Water, Gas, Oil	-----
Geoenvironmental Boring	⊕
U/G Test Hole LOS A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

6/2/99

PROJECT REFERENCE NO. W-560/DN	SHEET NO. 2A-1
ROADWAY DESIGN ENGINEER 2/4/2019 PROFESSIONAL SEAL 40774 NORWOOD A. GAINY, III	PAVEMENT DESIGN ENGINEER 2/4/2019 PROFESSIONAL SEAL 40774 NORWOOD A. GAINY, III
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



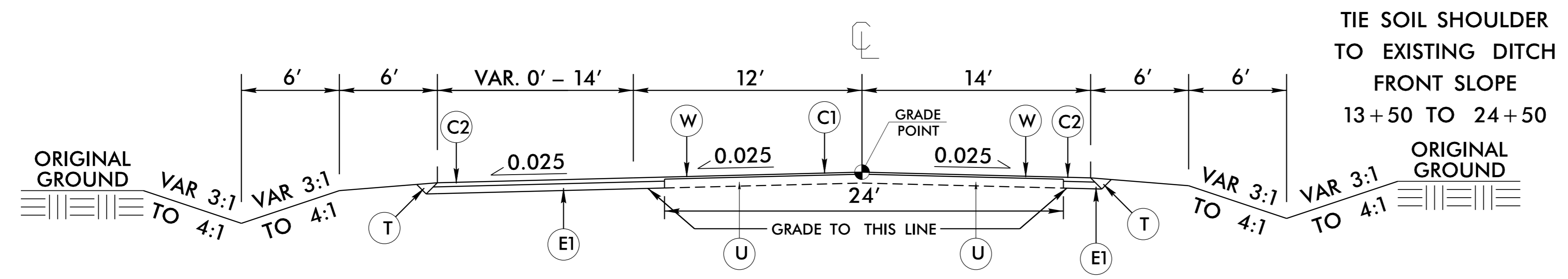
Detail Showing Method of Wedging



TYPICAL SECTION NO. 1

**USE TYPICAL SECTION NO. 1**

-L- FROM STA. 13+50 TO 17+38.06  
-L- FROM STA. 23+11.77 TO 44+00



TYPICAL SECTION NO. 2

**USE TYPICAL SECTION NO. 2**

-L- FROM STA. 17+38.06 TO 23+11.77

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YARD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YARD IN EACH OF TWO LAYERS.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 1.5" IN DEPTH.
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YARD.
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" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YARD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 3" OR GREATER THAN 5.5" IN DEPTH.
U	EXISTING PAVEMENT
T	EARTH MATERIAL
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDGING ON THIS SHEET)

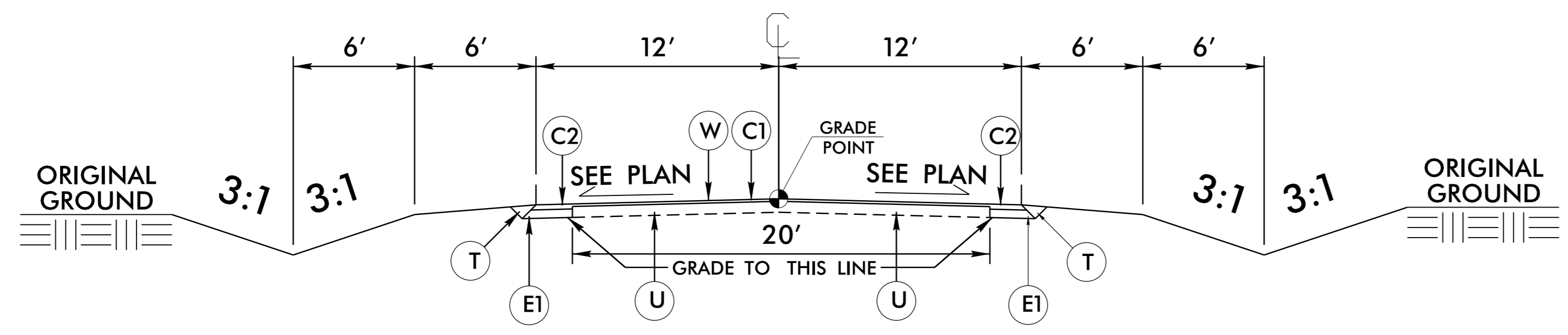
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

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PROJECT REFERENCE NO. W-5601DN	SHEET NO. 2A-2
ROADWAY DESIGN ENGINEER 2/4/2019 SEAL 40774 Norwood A. Gairy, III	PAVEMENT DESIGN ENGINEER 2/4/2019 SEAL 40774 Norwood A. Gairy, III

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

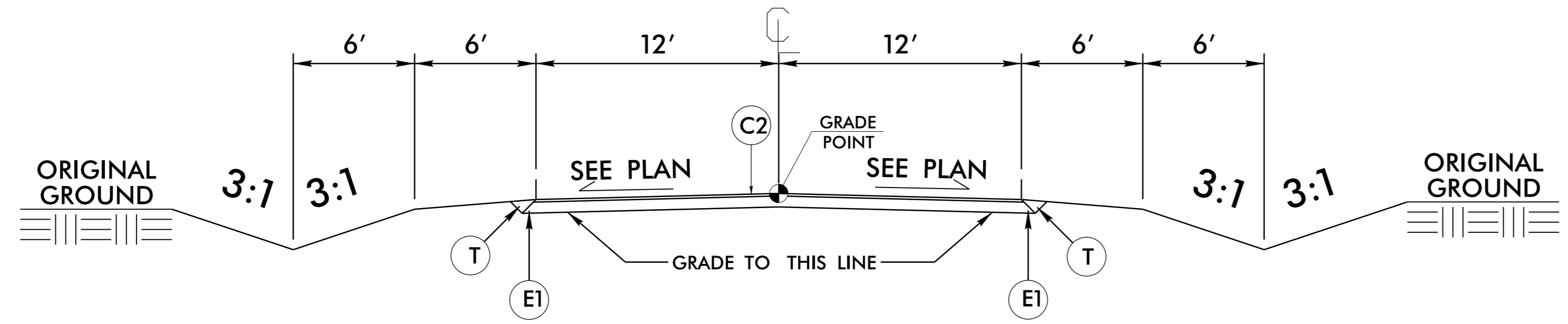
PAVEMENT SCHEDULE	
C1	1.5" S9.5B
C2	3" S9.5B
C3	VAR. S9.5B
D1	2.5" I19.0C
D2	VAR. I19.0C
E1	5.5" B25.0C
E2	VAR. B25.0C
U	EXIST. PAVEMENT
T	EARTH MATERIAL
W	WEDGING



**TYPICAL SECTION NO. 3**

**USE TYPICAL SECTION NO. 3**

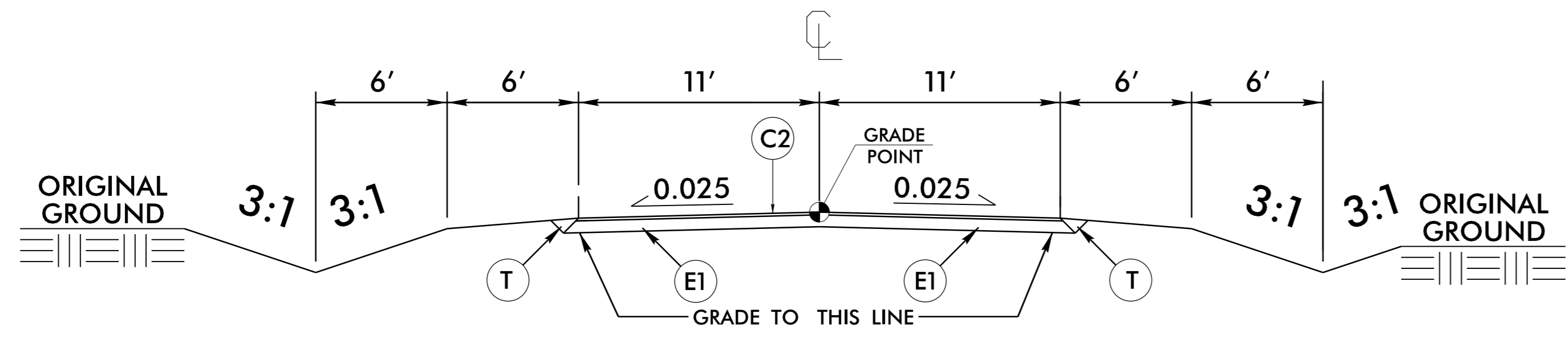
-Y1- FROM STA. 12+50.00 TO STA. 16+00.00



**TYPICAL SECTION NO. 4**

**USE TYPICAL SECTION NO. 4**

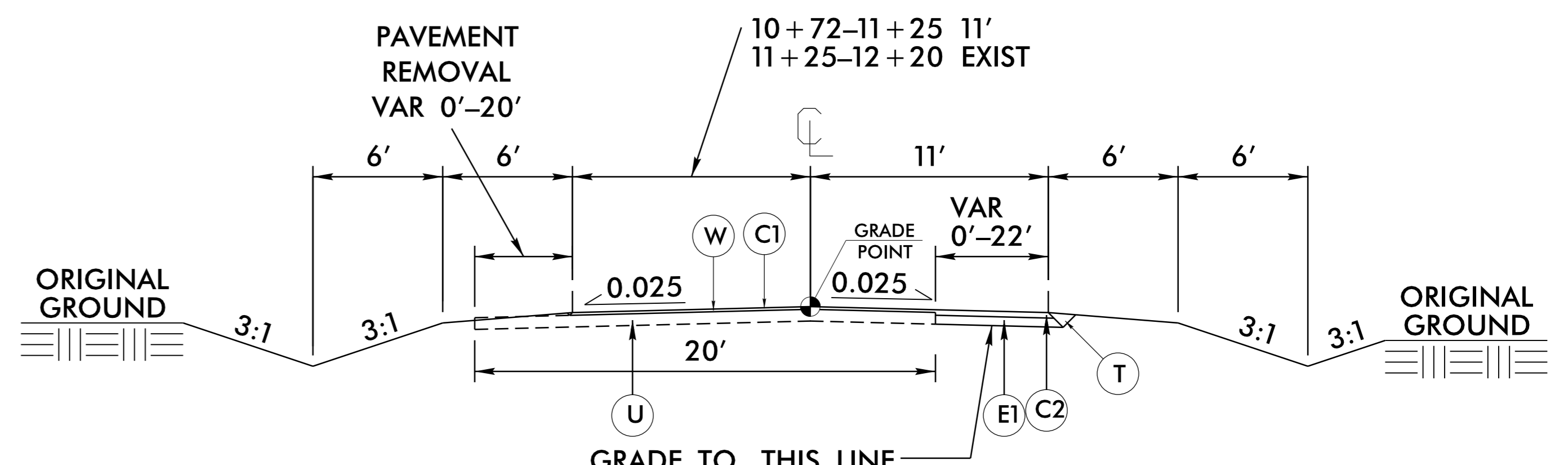
-Y1- FROM STA. 16+00.00 TO STA. 19+86



**TYPICAL SECTION NO. 5**

**USE TYPICAL SECTION NO. 5**

-Y2- FROM STA. 10+12 TO STA. 10+72



**TYPICAL SECTION NO. 6**

**USE TYPICAL SECTION NO. 6**

-Y2- FROM STA. 10+72 TO STA. 12+20.00

RESURFACE -Y2- 12+20.00 TO 17+80.00 WITH 1.5" S9.5B

6/2/99

04-FEB-2019 08:00 4-5601DN.DDC4\_TYP.dgn  
44830105PRN146 83836

DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK  
 Volumes in Cubic Yards

PARCEL INDEX

STATION TO STATION				Uncl. Excav.	Undercut	Embank +%	Borrow	Waste
L	TO	TO	R					
L	13+50.00	TO	44+00.00	2874		3239	1659	1294
Y1	12+50.00	TO	19+74.00	749		373		376
Y2	10+12.00	TO	12+20.00	60		194	161	27
SUBTOTAL				3683		3806	1820	1697
TOTAL				3683		3806	1820	1697
WASTE TO REPLACE BORROW							-38	-38
PROJECT TOTAL				3683		3806	1782	1659
ESTIMATE TO REPLACE TOPSOIL ON BORROW PIT							89	
GRAND TOTAL				3683		3806	1871	1659
SAY				3700			1900	
ESTIMATE UNDERCUT					100			

PARCEL	SHEET	PROPERTY OWNERS NAMES
1	4&5	DUBCO LLC
2	5	MARGARET & RANDY NASH
3	5	EVELYN JOYNER JOHNSON
4	5	WILLIAM & CATHY PARKER
5	5	SAM BRYANT JR & SARAH BRYANT
6	5	LOWELL TAYLOR
7	5	CHARLIE BROWN
8	5	WINNIE COTTON BROWN HEIRS
9	5	ANNINIAS HYMAN
10	5	MEDESSA WEATHERSBE
11	5&6	OLA MAE WILLIAMS HEIRS (GIS) SHIRLEY, WILLIE JR & CARRIE WILLIAMS
12	5&6	DUBCO LLC
13	5&6	LOWELL TAYLOR
14	6	LOWELL TAYLOR
15	6	CALVIN WHITEHEAD & ERNEST WHITEHEAD
16	6	MONA LISA WHITEHEAD BATTLE
17	6	JANICE SMITH
18	6	LUCY WHITEHEAD LIFE ESTATE
19	4	DUBCO LLC
20	4	DUBCO LLC

SUMMARY OF REMOVAL OF EXISTING ASPHALT PAVEMENT

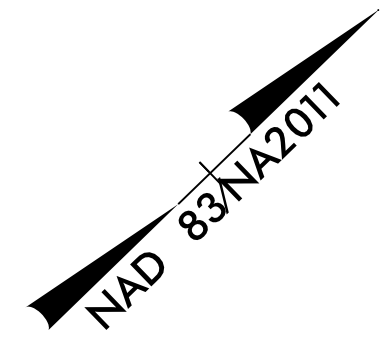
STATION TO STATION					LOC	SQUARE YARDS
-Y1-	TO	TO	-Y2-	R		
-Y1-	15+07	TO	-Y2-	11+25		498
-L-	23+63	TO	-L-	27+27	LT	964
TOTAL						1462
SAY						1470





PROJECT REFERENCE NO. W-560IDN	SHEET NO. 04
RW SHEET NO. 04	
ROADWAY DESIGN ENGINEER 1/24/2019 SEAL 040774 WOOD A. GAINY III	HYDRAULICS ENGINEER 1/25/2019 SEAL 022000 WILLIAM G. CUNY
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

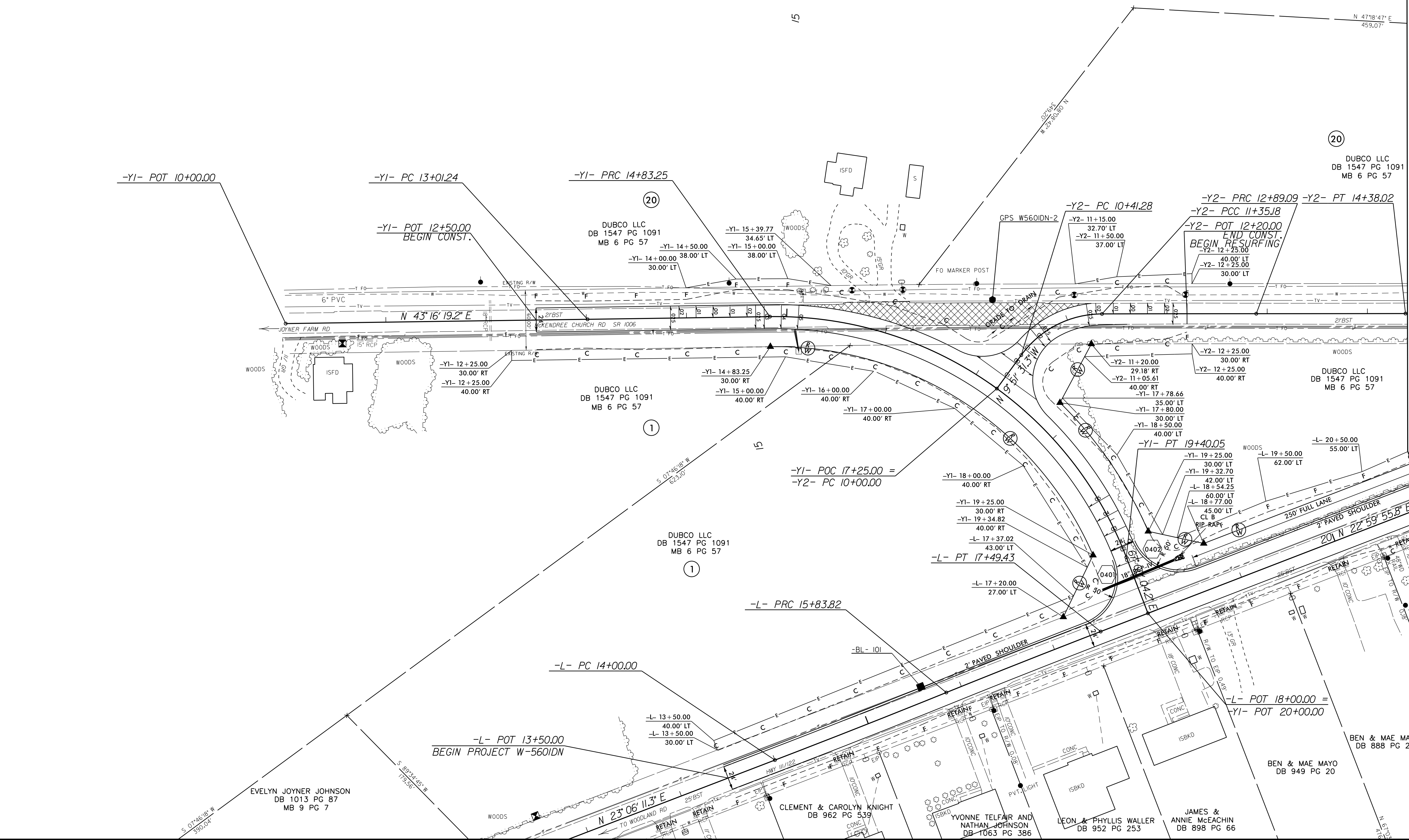
LINE -L-		LINE -Y1-		LINE -Y2-	
PI Sta 14+91.91	PI Sta 16+66.62	PI Sta 13+92.25	PI Sta 17+44.83	PI Sta 10+92.01	PI Sta 12+12.14
$\Delta = 1^{\circ}03'11.5"$ (LT)	$\Delta = 0^{\circ}56'56.0"$ (RT)	$\Delta = 0^{\circ}04'02.7"$ (LT)	$\Delta = 69^{\circ}47'39.3"$ (RT)	$\Delta = 53^{\circ}48'15.4"$ (RT)	$\Delta = 0^{\circ}07'16.6"$ (RT)
$D = 0^{\circ}34'22.6"$	$D = 0^{\circ}34'22.6"$	$D = 0^{\circ}02'13.3"$	$D = 15^{\circ}16'44.0"$	$D = 57^{\circ}17'44.8"$	$D = 0^{\circ}04'43.7"$
$L = 183.82'$	$L = 165.61'$	$L = 182.01'$	$L = 456.80'$	$L = 93.91'$	$L = 153.91'$
$T = 91.91'$	$T = 82.81'$	$T = 91.00'$	$T = 261.58'$	$T = 50.74'$	$T = 76.95'$
$R = 10,000.00'$	$R = 10,000.00'$	$R = 154,696.42'$	$R = 375.00'$	$R = 100.00'$	$R = 72,712.47'$
					PI Sta 13+63.56
					$\Delta = 0^{\circ}04'14.6"$ (LT)
					$D = 0^{\circ}02'51.0"$
					$L = 148.93'$
					$T = 74.47'$
					$R = 120,647.76'$



REVISIONS

MATCHLINE -Y2- STA. 14+40.00  
SEE SHEET 05

MATCHLINE -L- STA. 21+00.00  
SEE SHEET 05



24 JAN-2019 16:19 W:\E60IDN\DDC4\_PSH04.dgn  
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3:53:50 PM

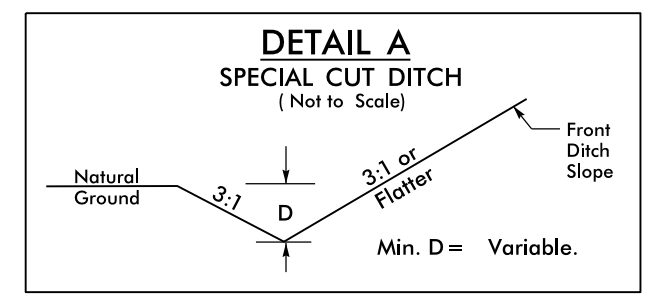
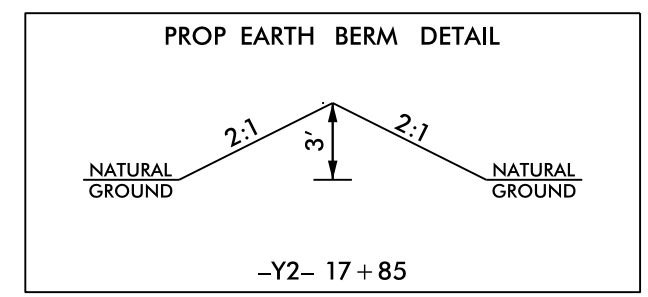
EVELYN JOYNER JOHNSON  
DB 1013 PG 87  
MB 9 PG 7

CLEMENT & CAROLYN KNIGHT  
DB 962 PG 539

YVONNE TELFAIR AND NATHAN JOHNSON  
DB 1063 PG 386

LEON & PHYLLIS WALLER  
DB 952 PG 253

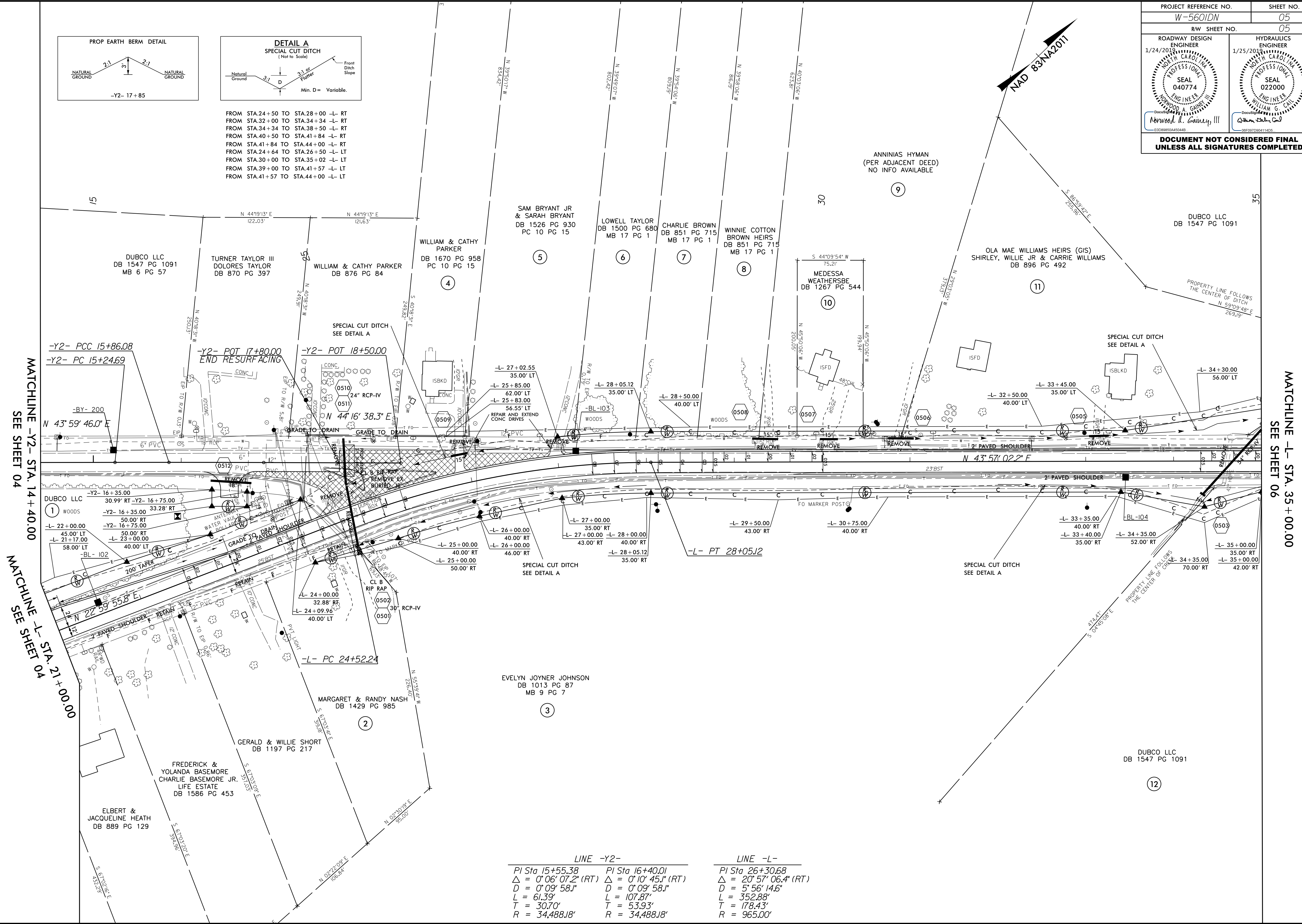
JAMES & ANNIE MCEACHIN  
DB 898 PG 66



FROM STA.24+50 TO STA.28+00 -L- RT  
 FROM STA.32+00 TO STA.34+34 -L- RT  
 FROM STA.34+34 TO STA.38+50 -L- RT  
 FROM STA.40+50 TO STA.41+84 -L- RT  
 FROM STA.41+84 TO STA.44+00 -L- RT  
 FROM STA.24+64 TO STA.26+50 -L- LT  
 FROM STA.30+00 TO STA.35+02 -L- LT  
 FROM STA.39+00 TO STA.41+57 -L- LT  
 FROM STA.41+57 TO STA.44+00 -L- LT

8/17/99

24 JAN-2019 14:19 A:\W-560\DN.LDDC4\_PSH05.dgn



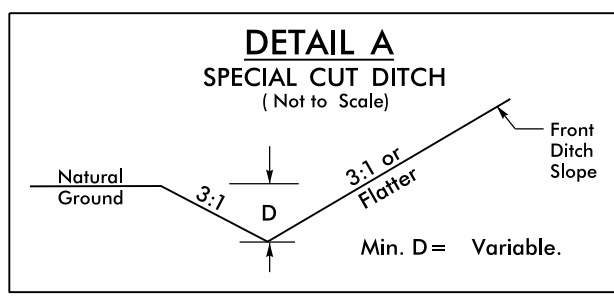
LINE -Y2-		LINE -L-	
PI Sta 15+55.38	PI Sta 16+40.01	PI Sta 26+30.68	
$\Delta = 0^{\circ} 06' 07.2''$ (RT)	$\Delta = 0^{\circ} 10' 45.1''$ (RT)	$\Delta = 20^{\circ} 57' 06.4''$ (RT)	
D = 0' 09' 58.1"	D = 0' 09' 58.1"	D = 5' 56' 14.6"	
L = 61.39'	L = 107.87'	L = 352.88'	
T = 30.70'	T = 53.93'	T = 178.43'	
R = 34,488.18'	R = 34,488.18'	R = 965.00'	

REVISIONS

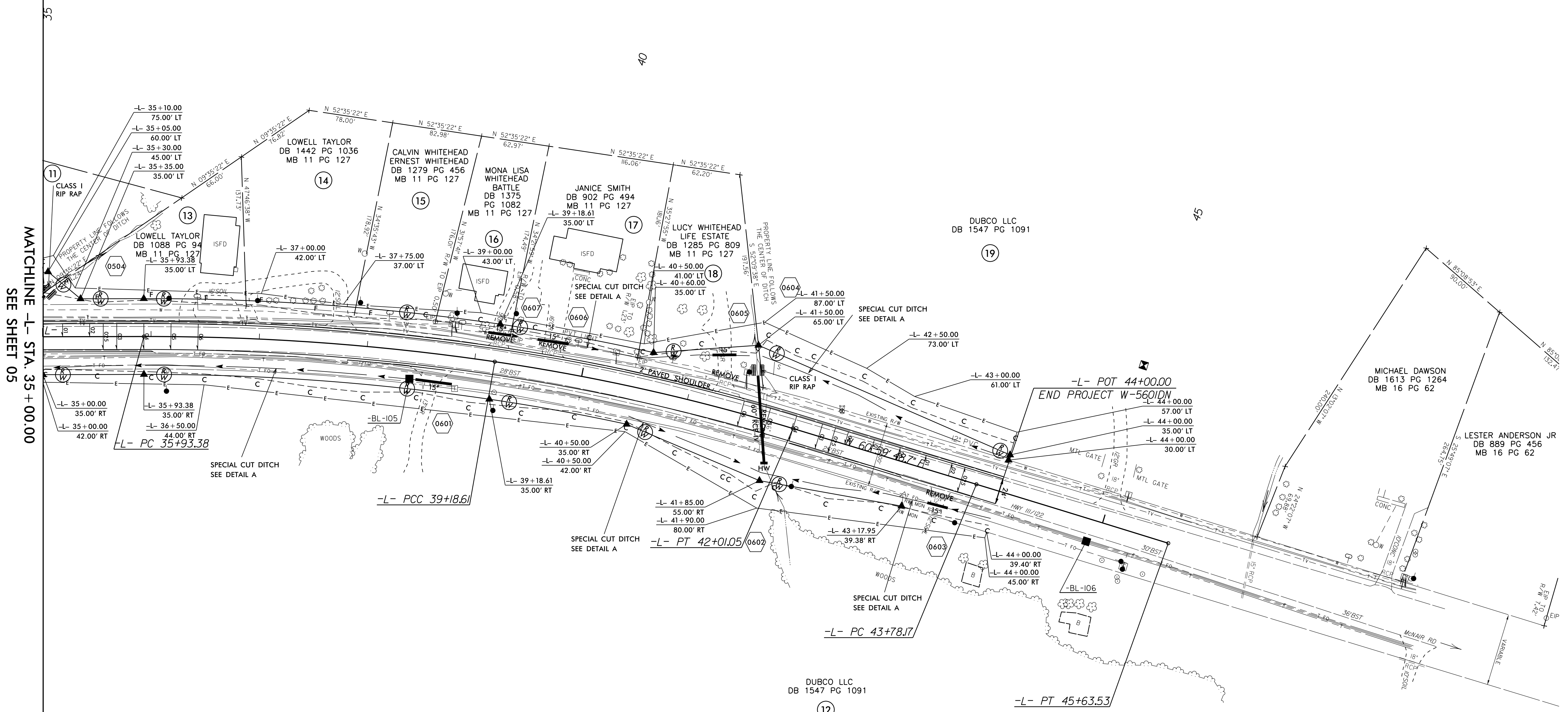
MATCHLINE -Y2- STA. 14+40.00  
SEE SHEET 04

MATCHLINE -L- STA. 21+00.00  
SEE SHEET 04

MATCHLINE -L- STA. 35+00.00  
SEE SHEET 06



- FROM STA.24+50 TO STA.28+00 -L- RT
- FROM STA.32+00 TO STA.34+34 -L- RT
- FROM STA.34+34 TO STA.38+50 -L- RT
- FROM STA.40+50 TO STA.41+84 -L- RT
- FROM STA.41+84 TO STA.44+00 -L- RT
- FROM STA.24+64 TO STA.26+50 -L- LT
- FROM STA.30+00 TO STA.35+02 -L- LT
- FROM STA.39+00 TO STA.41+57 -L- LT
- FROM STA.41+57 TO STA.44+00 -L- LT



MATCHLINE -L- STA. 35+00.00  
SEE SHEET 05

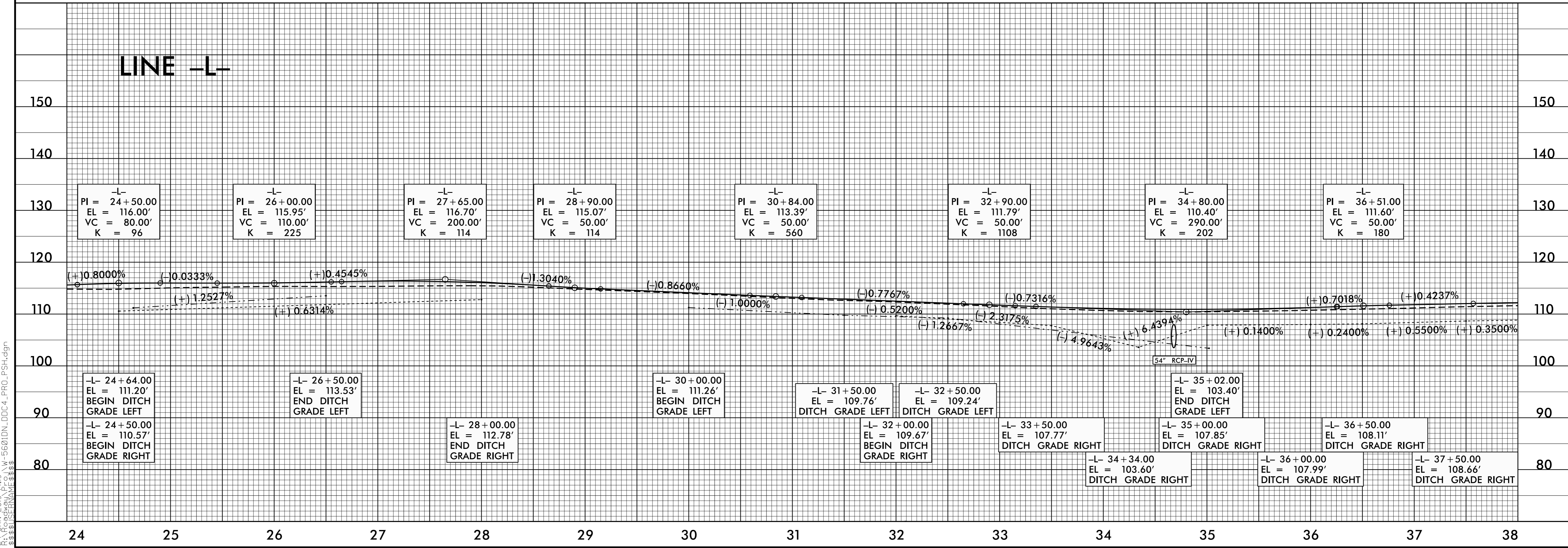
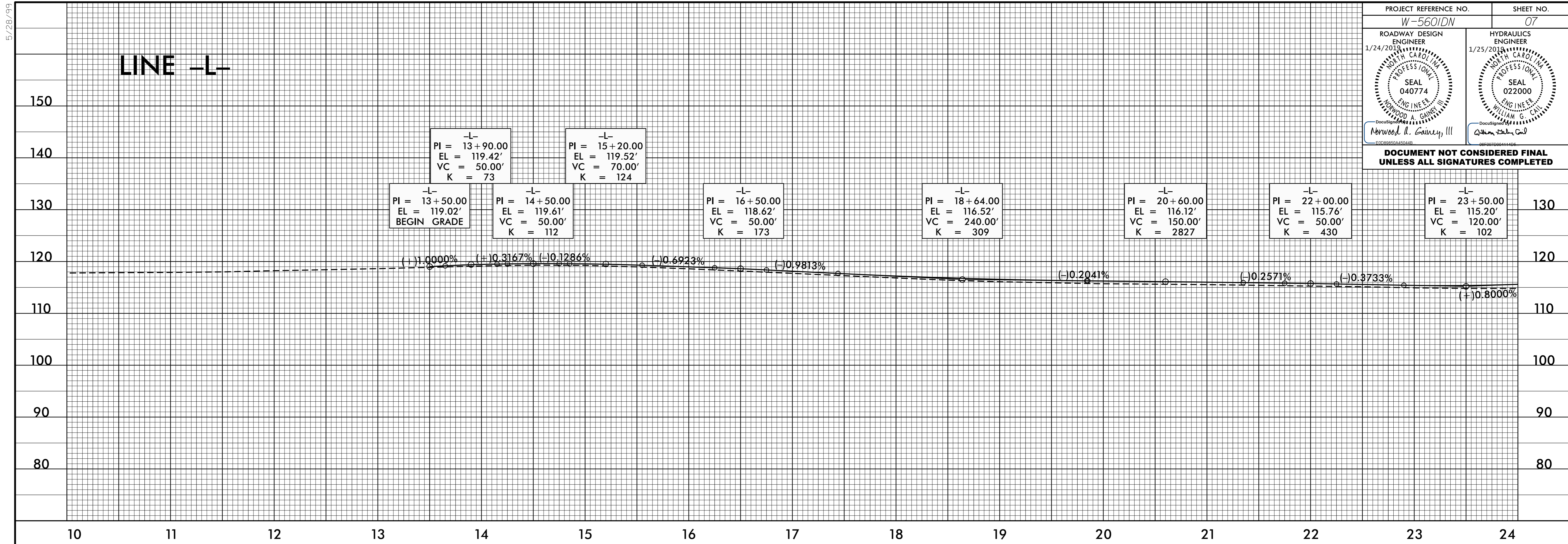
REVISIONS

LINE -L-		
PI Sta 37+56.30	PI Sta 40+60.10	PI Sta 44+70.85
$\Delta = 8' 28' 26.5''$ (RT)	$\Delta = 8' 34' 20.0''$ (RT)	$\Delta = 0' 19' 15.5''$ (RT)
$D = 2' 36' 19.9''$	$D = 3' 02' 06.3''$	$D = 0' 10' 23.4''$
$L = 325.23'$	$L = 282.44'$	$L = 185.37'$
$T = 162.91'$	$T = 141.48'$	$T = 92.68'$
$R = 2,199.00'$	$R = 1,887.78'$	$R = 33,089.49'$

8/17/99

24 JAN 2018 10:19 AM W-560/DN.DDC4\_PSH06.dgn  
3:58:50 PM W-560/DN.DDC4\_PSH06.dgn

PROJECT REFERENCE NO. W-560IDN	SHEET NO. 07
ROADWAY DESIGN ENGINEER 1/24/2019 NORTH CAROLINA PROFESSIONAL SEAL 040774 WOOD A. GAINES III	HYDRAULICS ENGINEER 1/25/2019 NORTH CAROLINA PROFESSIONAL SEAL 022000 WILLIAM G. GAINES
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



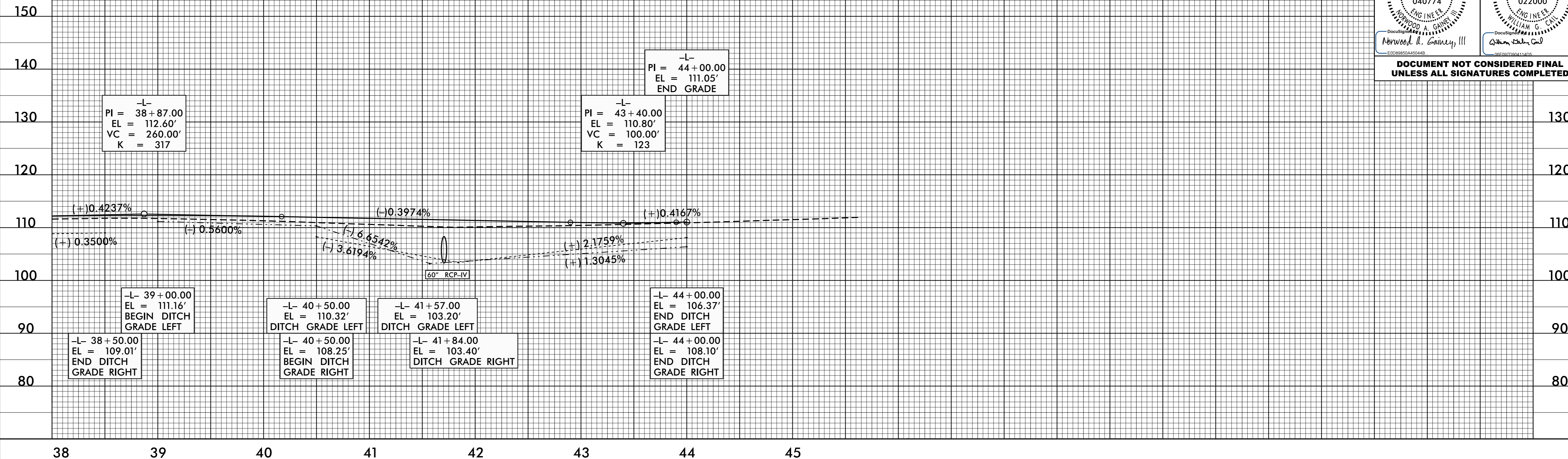
5/28/99

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1:34:30

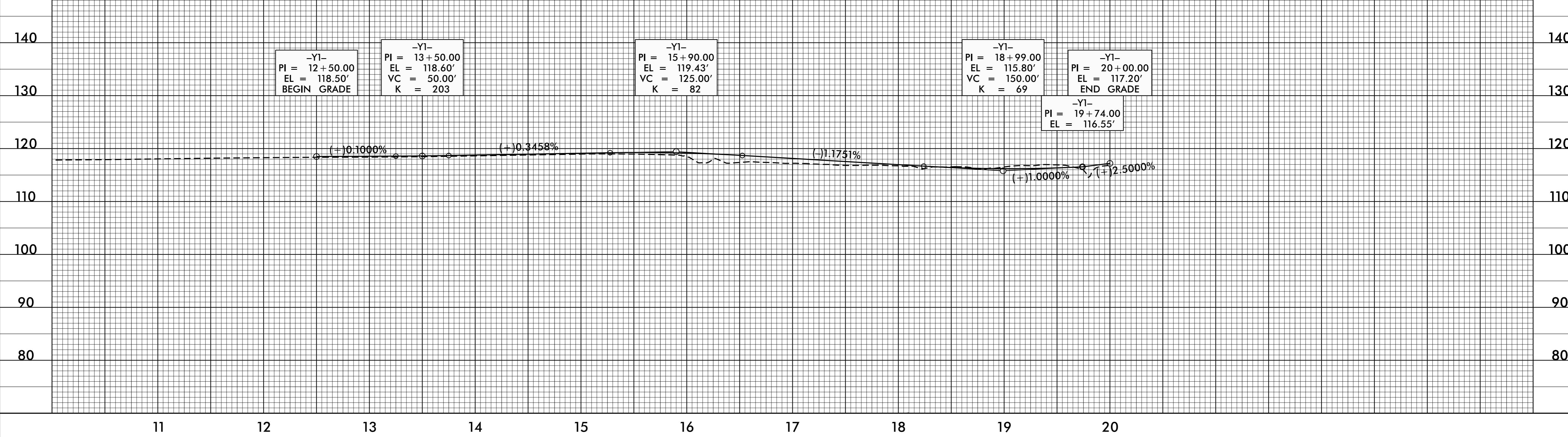
PROJECT REFERENCE NO. W-560IDN	SHEET NO. 08
ROADWAY DESIGN ENGINEER 1/24/2019 SEAL 040774 NORTH CAROLINA PROFESSIONAL ENGINEER WOODROW A. GANER III	HYDRAULICS ENGINEER 1/25/2019 SEAL 022000 NORTH CAROLINA PROFESSIONAL ENGINEER WILLIAM G. QUINN, III

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

# LINE -L-



# LINE -Y1-



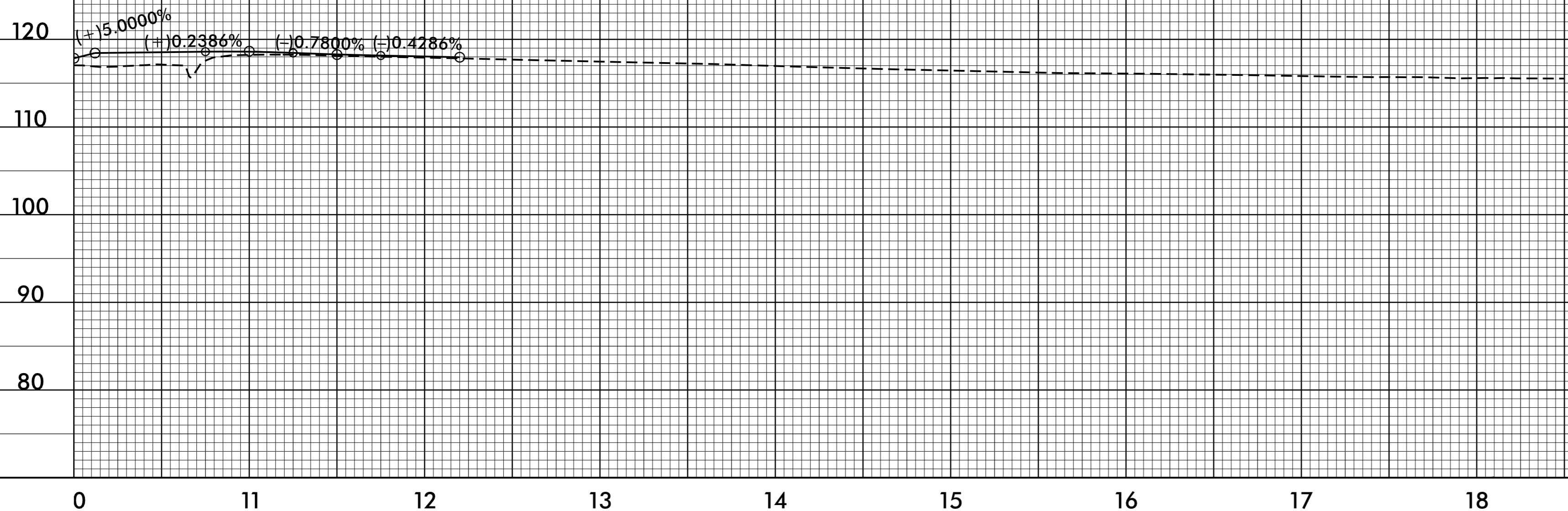
5/28/99

24 JAN-2019 14:20 W-560IDN.DDC4\_PRO.FSH.dgn  
14880 10581 11678 12775

5/28/99

# LINE -Y2-

140	-Y2- PI = 10+12.00 EL = 118.44'	-Y2- PI = 11+50.00 EL = 118.26' VC = 50.00' K = 142
130	-Y2- PI = 10+00.00 EL = 117.84' BEGIN GRADE	-Y2- PI = 11+00.00 EL = 118.65' VC = 50.00' K = 49
		-Y2- PI = 12+20.00 EL = 117.96' END GRADE



PROJECT REFERENCE NO. W-5601DN	SHEET NO. 09
ROADWAY DESIGN ENGINEER 1/24/2019 SEAL 040774 NORTH CAROLINA PROFESSIONAL ENGINEER ARWOOD A. GAINES III	HYDRAULICS ENGINEER 1/25/2019 SEAL 022000 NORTH CAROLINA PROFESSIONAL ENGINEER WILLIAM G. GIBSON
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

24 JAN-2019 14:20 W-5601DN.DDC4-PRO.FSH.dgn

09/08/99

TIP PROJECT: W-5601DN

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

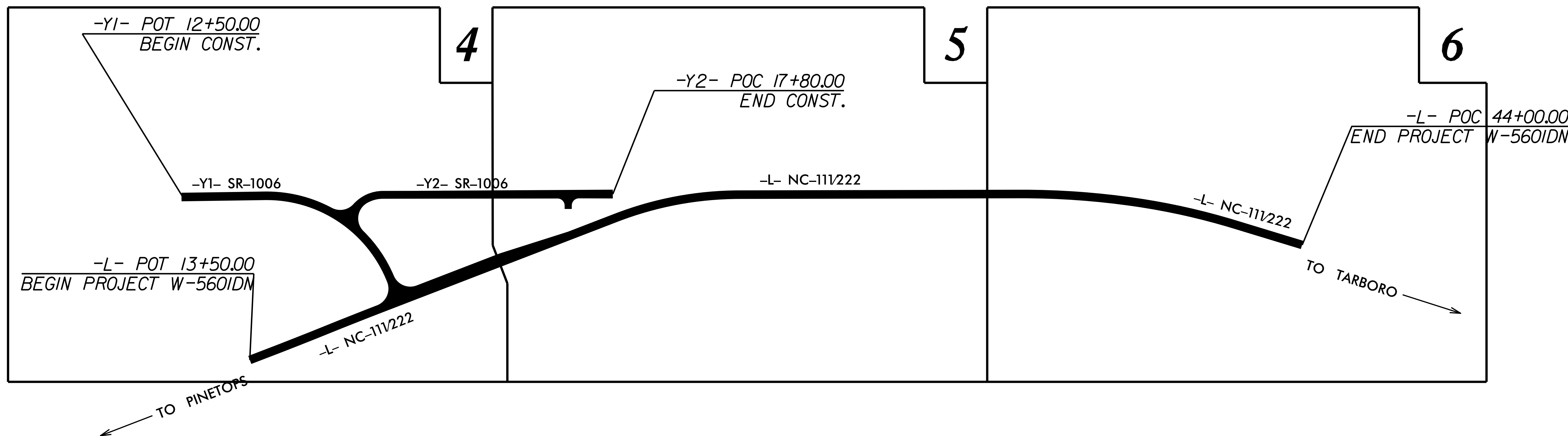
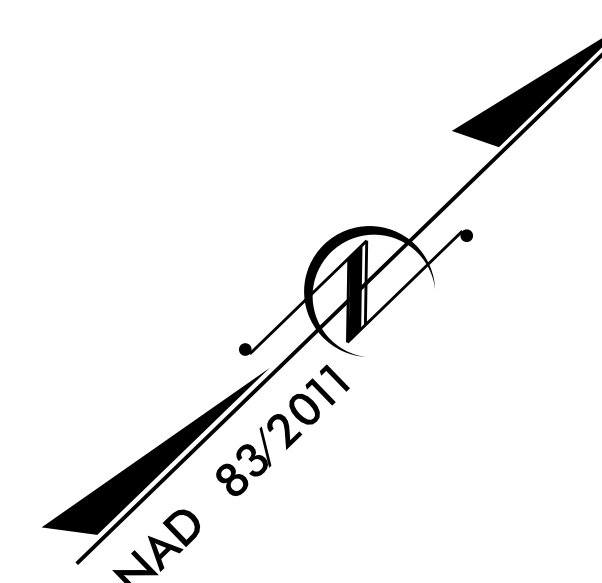
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5601DN	RW01	

SURVEY CONTROL, EXISTING CENTERLINES,  
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

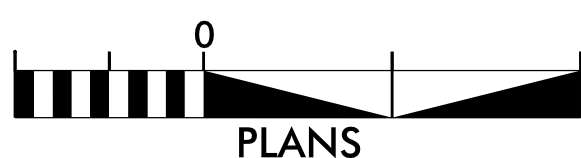
**EDGEcombe COUNTY**

LOCATION: NC 111/NC 122 BETWEEN 0.19 MI SOUTH OF SR 1006  
(MCKENDREE CHURCH ROAD) AND 0.36 MI NORTH OF  
SR 1006 (MCKENDREE CHURCH ROAD).

TYPE OF WORK: GRADING, PAVING AND DRAINAGE



GRAPHIC SCALE



PLANS

**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "W5601DN-2" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 774304.290(ft) EASTING: 2416464.606(ft) ELEVATION: 117.918(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99993090

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "W5601DN-2" TO -Y1- STATION 12+50.00 IS S 41°31'00" W 452.03(ft)

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

**DIVISION OF HIGHWAYS**

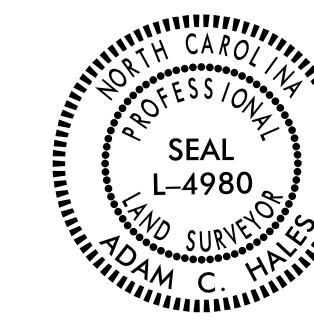
1000 Birch Ridge Dr., Raleigh NC, 27610

2017 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
FEBRUARY 27, 2018

LETTING DATE:  
FEBRUARY 26, 2019

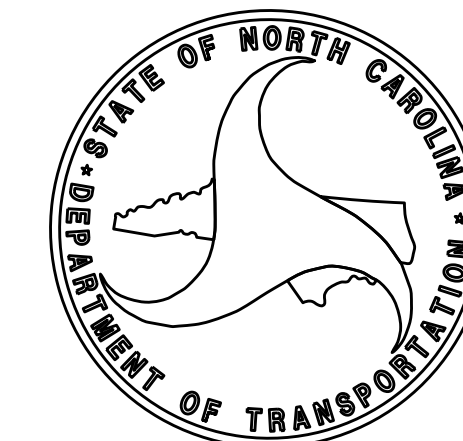
PROFESSIONAL LAND SURVEYOR



DocuSigned by:  
Adam Hales  
E91DD6C1163E43D

SIGNATURE:

1/21/2019



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









# PROPOSED ALIGNMENT CONTROL SHEET

L			
TYPE	STATION	NORTH	EAST
POT	10+00.00	773460.8713	2416486.5544
PC	14+00.00	773828.7912	2416643.5094
PRC	15+83.82	773998.5187	2416714.0787
PT	17+49.43	774151.4953	2416777.5200
PC	24+52.24	774798.4465	2417052.1191
PT	28+05.12	775091.1557	2417245.6734
PC	35+93.38	775658.6538	2417792.7554
PCC	39+18.61	775875.2862	2418034.9403
PT	42+01.05	776030.1615	2418270.8118
PC	43+78.17	776116.0377	2418425.7165
PT	45+63.53	776205.4590	2418588.0866

Y1			
TYPE	STATION	NORTH	EAST
POT	10+00.00	773781.0734	2415991.0648
PC	13+01.24	774000.4101	2416197.5550
PRC	14+83.25	774133.0047	2416322.2364
PT	19+40.05	774221.4699	2416742.0963
POT	20+00.00	774198.0475	2416797.2791

Y2			
TYPE	STATION	NORTH	EAST
POT	10+00.00	774245.7400	2416531.3719
PC	10+41.28	774286.4068	2416524.3047
PCC	11+35.18	774372.9262	2416550.8280
PRC	12+89.09	774483.6267	2416657.7535
PT	14+38.02	774590.7022	2416761.2688
PC	15+24.69	774653.0471	2416821.4664
PCC	15+86.08	774697.1746	2416864.1500
PT	16+93.95	774774.5214	2416939.3342
POT	18+50.00	774886.2515	2417048.2807

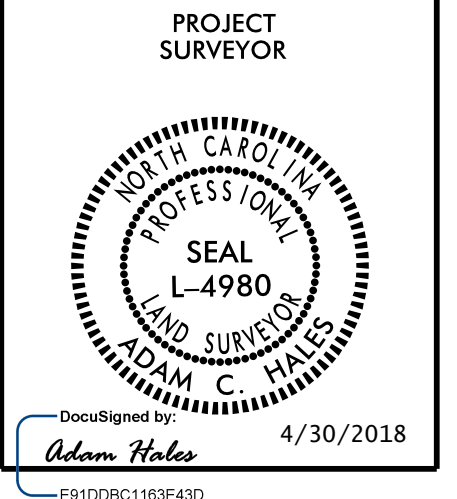
REVISIONS

**NOTES:**

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE PROPOSED ALIGNMENT CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATINO REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

6/2/99

# RIGHT OF WAY CONTROL SHEET



ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
L	17+20.00	-27.00	774134.8654	2416741.1778
L	18+77.00	-45.00	774286.5116	2416785.9420
L	22+00.00	-45.00	774583.8347	2416912.1411
L	23+00.00	-40.00	774673.9324	2416955.8149
L	24+00.00	32.88	774737.5099	2417061.9698
L	24+09.96	-40.00	774775.1535	2416998.7783
L	25+00.00	40.00	774824.4961	2417107.8601
L	26+00.00	40.00	774908.4544	2417154.0223
L	27+00.00	35.00	774990.2455	2417204.6660
L	27+02.55	-35.00	775035.1485	2417150.9053
L	28+05.12	-35.00	775115.4470	2417220.4756
L	28+05.12	35.00	775066.8644	2417270.8713
L	33+40.00	35.00	775451.9429	2417642.0964
L	33+45.00	-35.00	775504.1253	2417595.1709
L	34+35.00	52.00	775508.5384	2417720.2690
L	35+00.00	35.00	775567.1331	2417753.1425
L	35+05.00	-60.00	775636.6664	2417688.2186
L	35+35.00	-35.00	775640.9136	2417727.0382
L	35+93.38	-35.00	775682.9451	2417767.5576
L	35+93.38	35.00	775634.3624	2417817.9532
L	39+18.61	-35.00	775903.0255	2418013.5972
L	39+18.61	35.00	775847.5469	2418056.2835
L	40+50.00	35.00	775922.5627	2418161.1359
L	40+60.00	-35.00	775986.4877	2418130.9107
L	41+50.00	-65.00	776060.7842	2418193.4620
L	41+85.00	55.00	775974.4455	2418283.8825
L	43+17.95	39.38	776052.3988	2418392.1451
L	44+00.00	-35.00	776157.2393	2418427.8652
L	44+00.00	-30.00	776152.8647	2418430.2866

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
Y2	11+20.00	29.18	774344.3962	2416564.9947
Y2	16+35.00	30.99	774710.6842	2416920.4449
Y2	16+35.00	50.00	774697.4376	2416934.0765
Y2	16+75.00	50.00	774726.0663	2416961.9290
Y2	16+75.00	33.28	774737.7316	2416949.9525

ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
Y1	14+83.25	30.00	774112.4665	2416344.1038
Y1	17+80.00	-30.00	774281.1470	2416585.2932
Y1	19+25.00	30.00	774199.0078	2416717.5226
Y1	19+25.00	-30.00	774255.1348	2416738.7302

I, ADAM C. HALES, 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(s) (R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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 existing survey control provided by others; that the depicted property data shown herein were surveyed by others; 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 original signature, registration number and seal this 30th day of April, 2018.

DocuSigned by:  
*Adam Hales*  
E910DBE1193E43D  
Professional Land Surveyor

L-4980  
PLS #

Seal

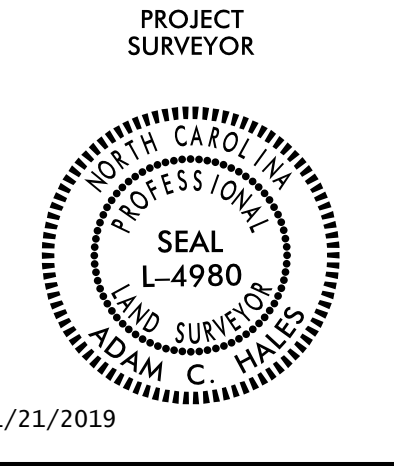
**NOTES:**

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

6/2/19

REVISIONS

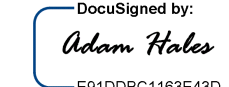
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I, ADAM C. HALES, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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Witness my original signature, registration number and seal this 21st day of January, 2019.

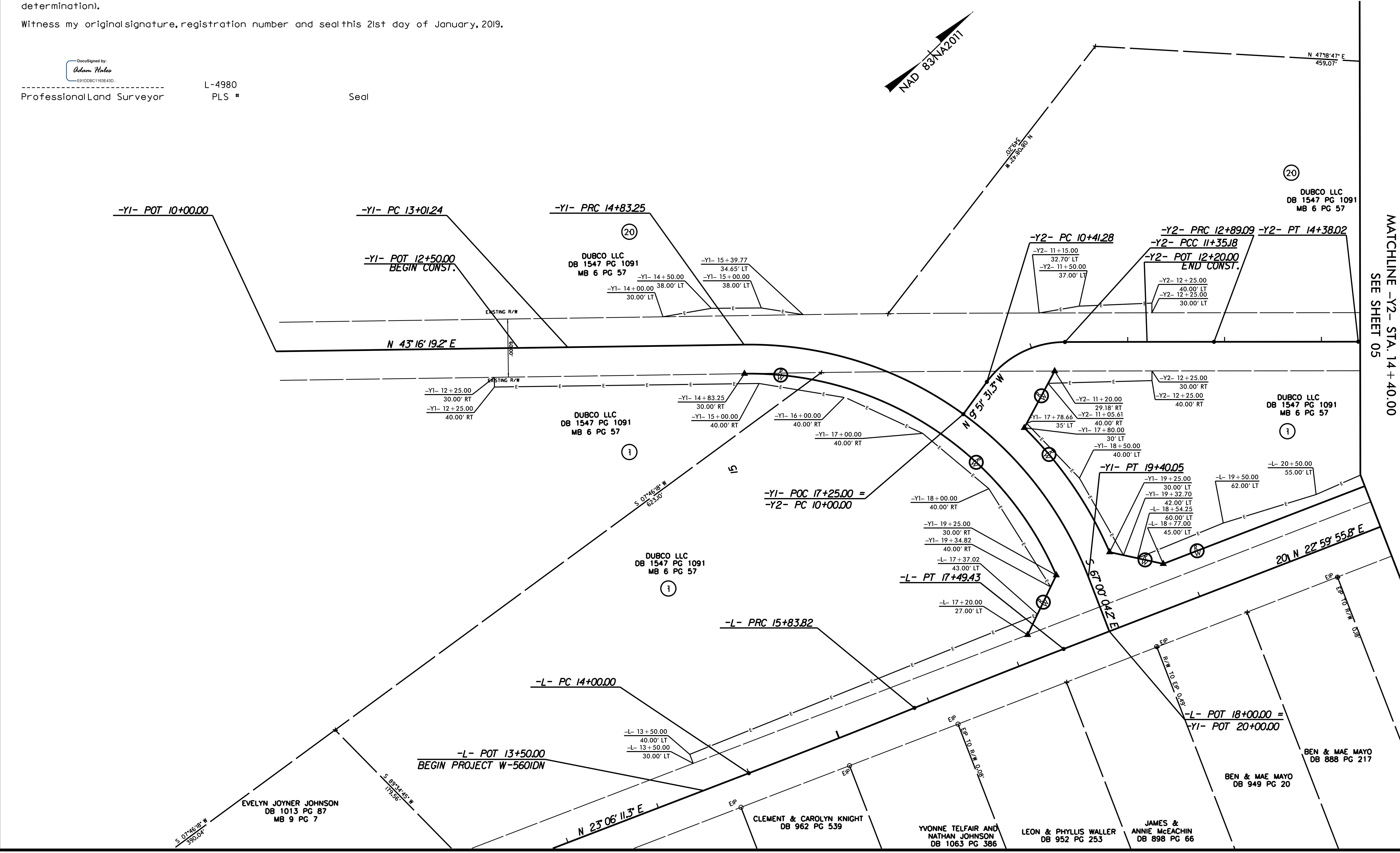
DocuSigned by:  
  
 E-100061183E43D  
 L-4980  
 Professional Land Surveyor PLS # Seal

**NOTES:**

- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

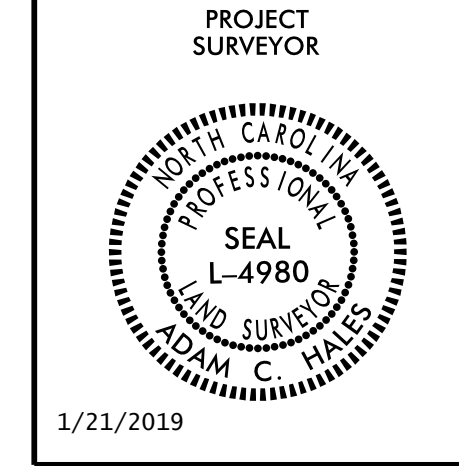
REVISIONS

MATCHLINE -Y2- STA. 14+40.00  
SEE SHEET 05



6/2/19

21-JAN-2019 09:43  
 C:\Users\adamh\Documents\Survey\W5601DN.LS.RW04\_180430.dgn  
 Adam Hales

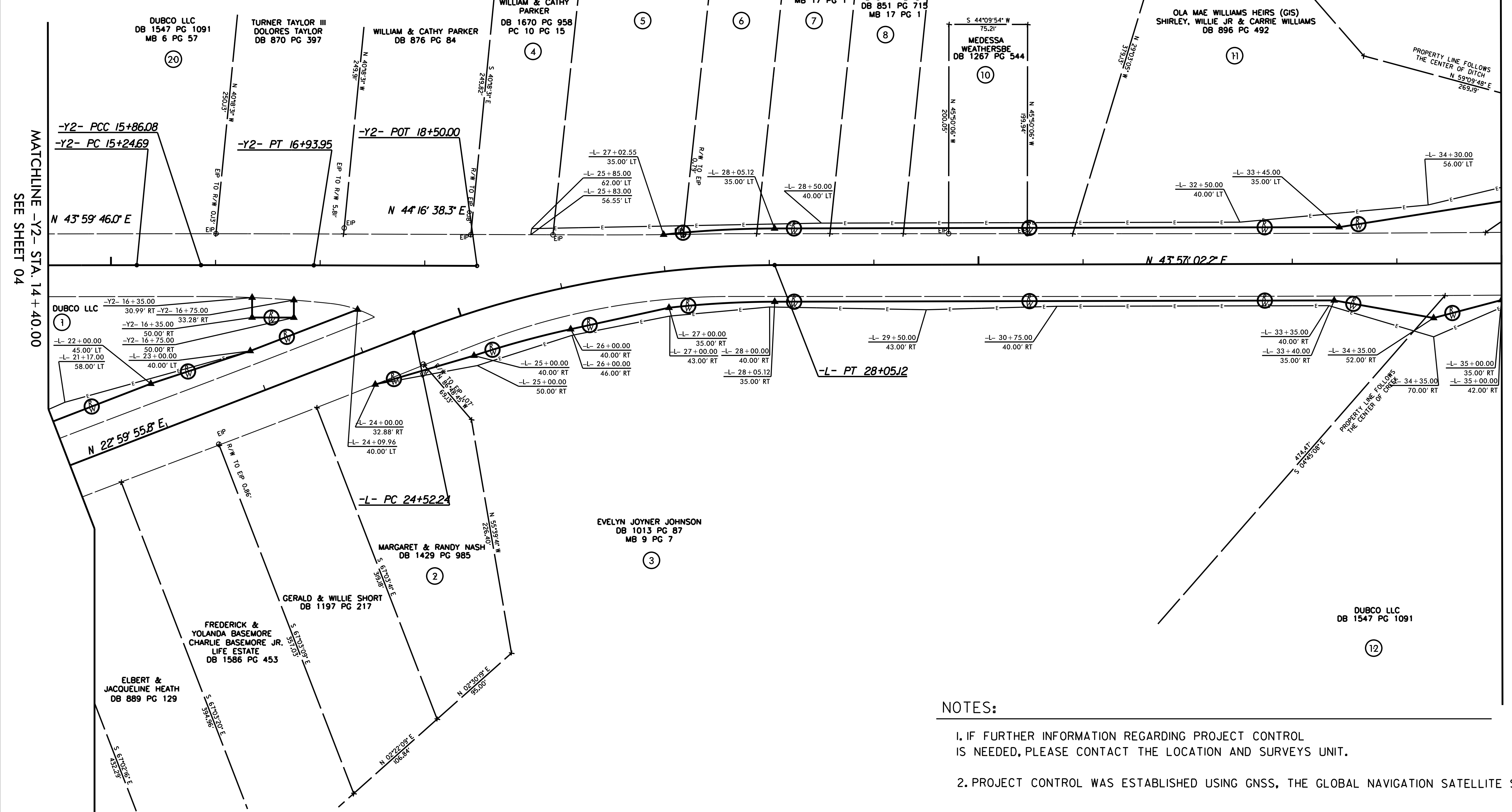


I, ADAM C. HALES, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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Witness my original signature, registration number and seal this 21st day of January, 2019.

DocuSigned by:  
**Adam Hales**  
 E910D8C1103E43D  
 Professional Land Surveyor L-4980 PLS # Seal



**NOTES:**

- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

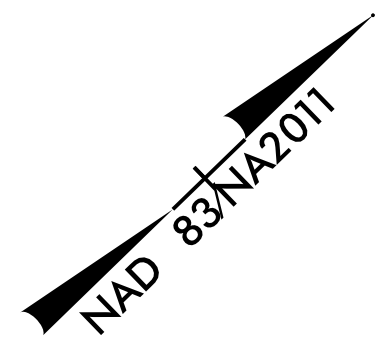
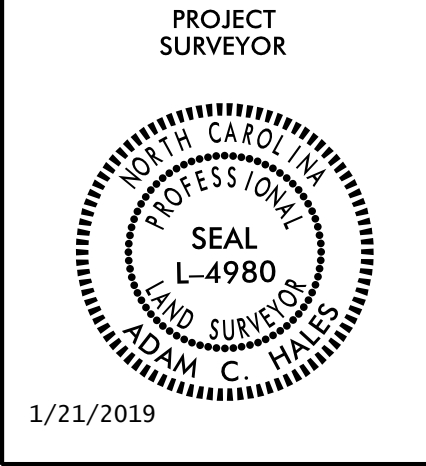
REVISIONS

MATCHLINE -L- STA. 35 + 00.00  
SEE SHEET 06

MATCHLINE -Y2- STA. 14 + 40.00  
SEE SHEET 04

6/2/19

21-JAN-2019 09:43 Survey W5601DN.LS.RW05\_180420.dgn  
 Plotter: 102386 N/A  
 File: W5601DN.LS.RW05\_180420.dgn



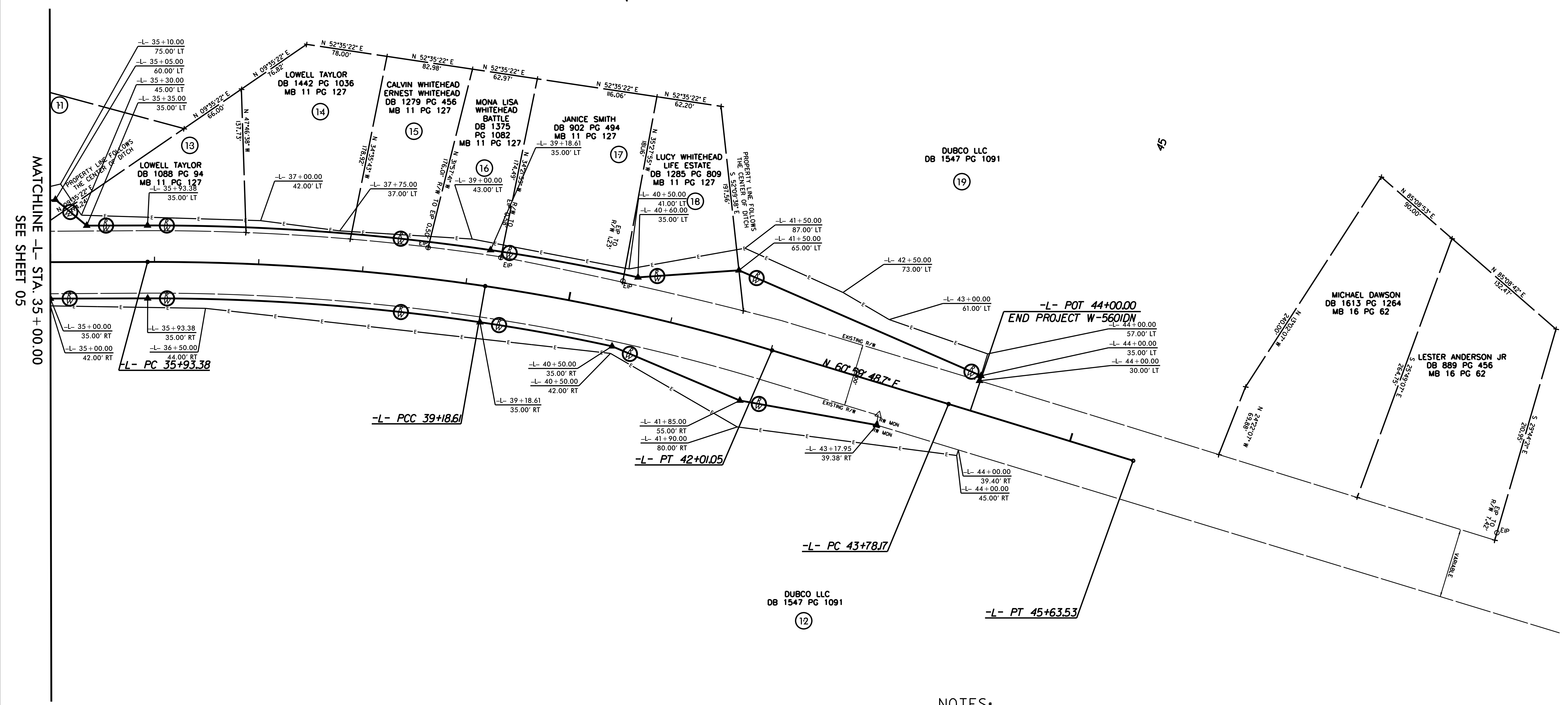
I, ADAM C. HALES, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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 existing survey control provided by others; that the depicted property data shown herein were surveyed by others; 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 original signature, registration number and seal this 21st day of January, 2019.

DocuSigned by:  
Adam Hales  
E91008C1103E43D

Professional Land Surveyor L-4980 PLS # Seal



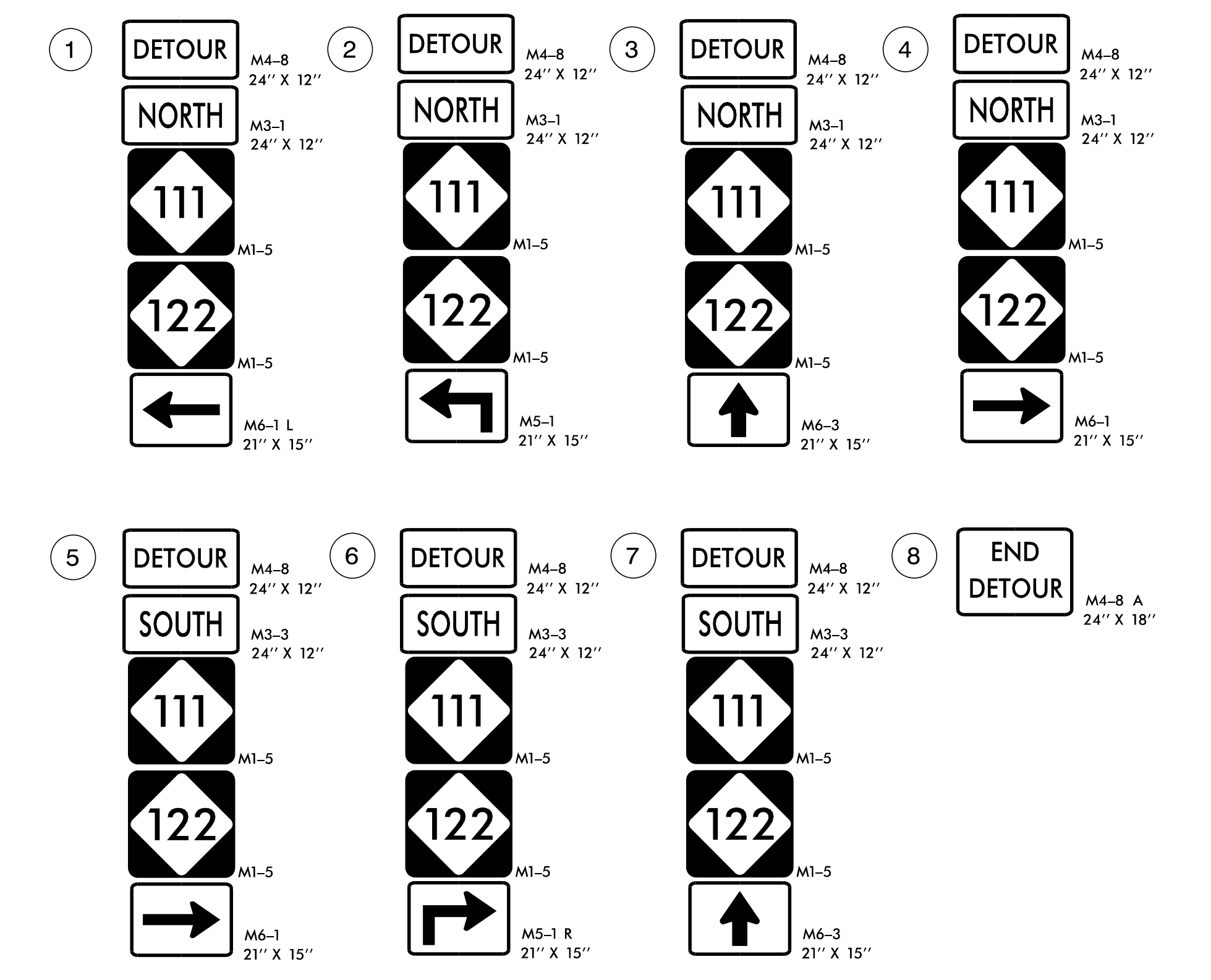
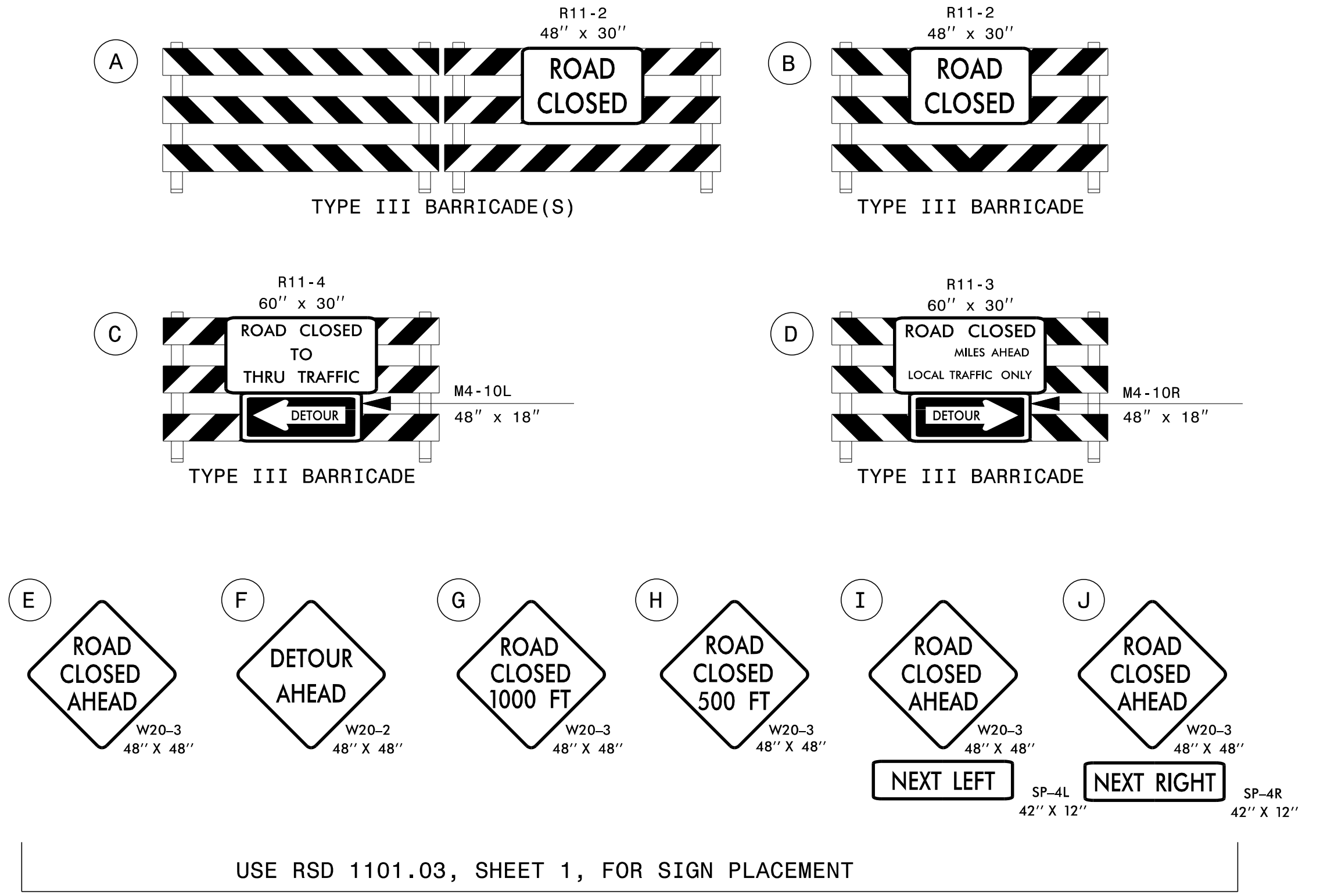
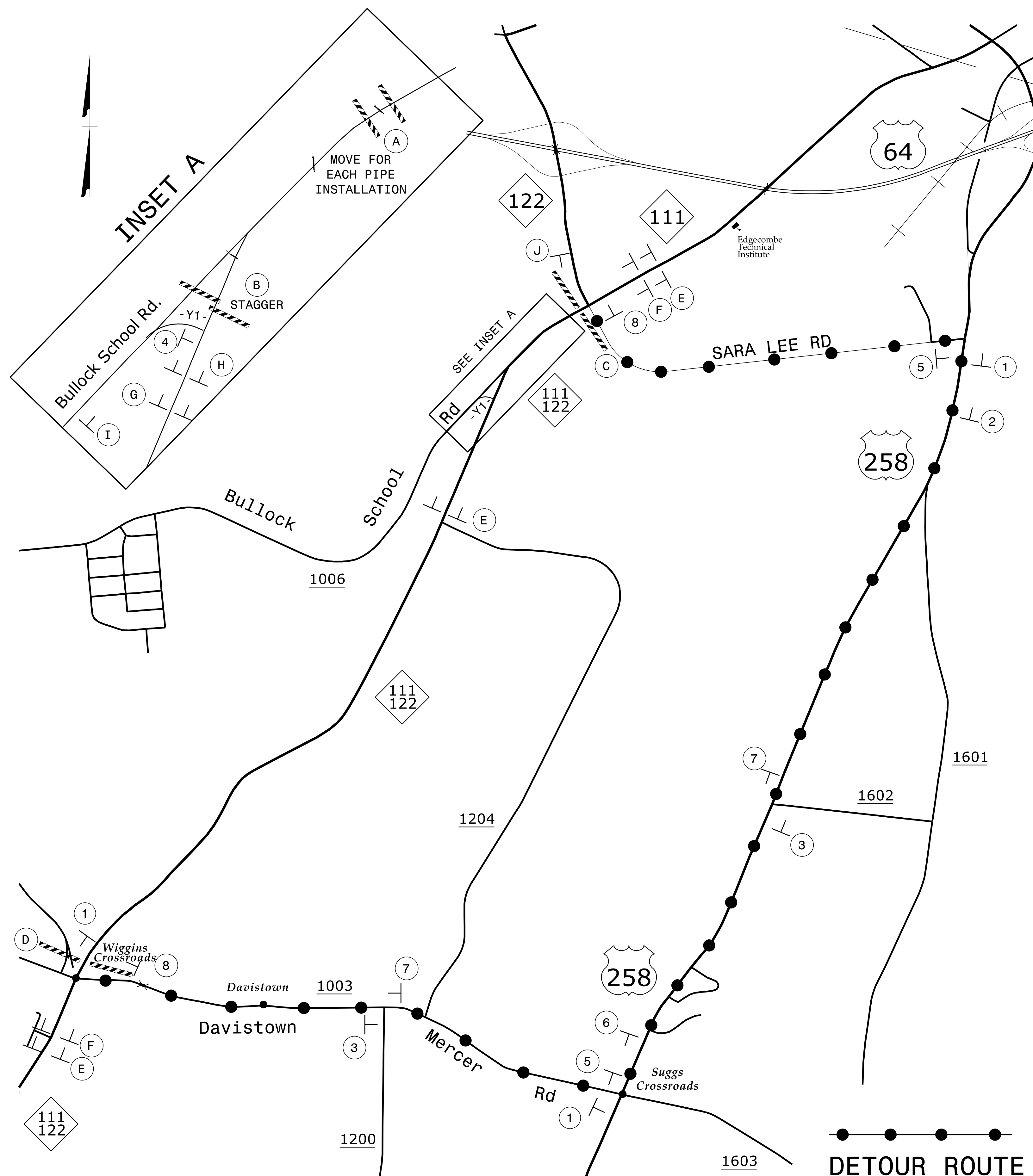
**NOTES:**

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- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

REVISIONS

6/2/19

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10:23:58  
10:23:58



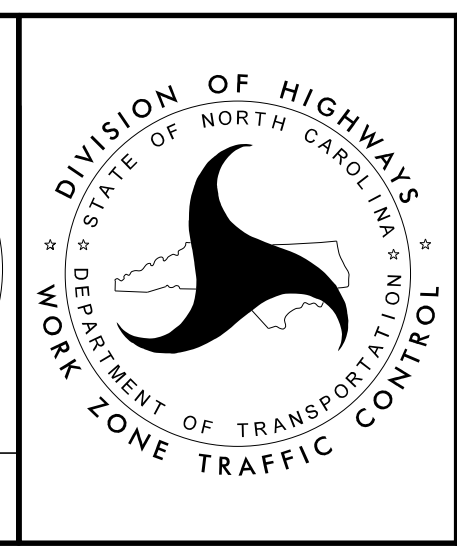
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1/10/2019  
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 User: tabjennings

APPROVED: *Steve Kite*  
 DATE: 1/10/2019

SEAL  
 JOHN S. KITE, II  
 PROFESSIONAL ENGINEER  
 022104

DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED




DETOUR



**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
EDGECOMBE COUNTY**

**LOCATION: NC 111/NC 122 BETWEEN 0.19 MI SOUTH OF SR 1006 (MCKENDREE CHURCH ROAD)  
AND 0.36 MI NORTH OF SR 1006 (MCKENDREE CHURCH RD).**

<small>TIP NO.</small> W-5601DN	<small>SHEET NO.</small> PMP - 1
<small>Designed by:</small> <i>Ayman Alqudwah</i> <small>Professional Engineer #23263CAF965472</small>	
<small>APPROVED:</small>	
<small>DATE:</small> 1/17/2019	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

**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>
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
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

**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
NC 111/NC 122	THERMOPLASTIC	NONE

- D) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- E) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- F) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.
- I) 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.

**PAVEMENT MARKING SCHEDULE**

T2	WHITE STOPBAR (24" 120MIL)
T8	2FT. - 6FT./SP WHITE MINISKIP (4" 120MIL)
TA	WHITE EDGELINE (4" 90MIL)
TD	3FT. - 9FT./SP WHITE MINISKIP (4" 120MIL)
TE	WHITE SOLID LANE LINE (4" 120MIL)
TI	YELLOW DOUBLE CENTER (4" 120MIL)
UB	RIGHT TURN ARROW (90MIL)
UC	STRAIGHT ARROW (90MIL)
UD	COMBO. LEFT/STRAIGHT ARROW (90MIL)

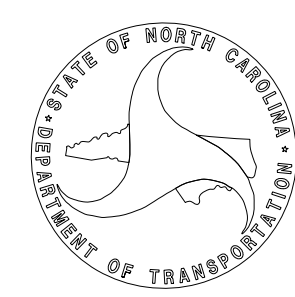
**INDEX**

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
PMP-1	PAVEMENT MARKING PLAN TITLE AND SCHEDULE SHEET
PMP-2-3	PAVEMENT MARKING DETAIL

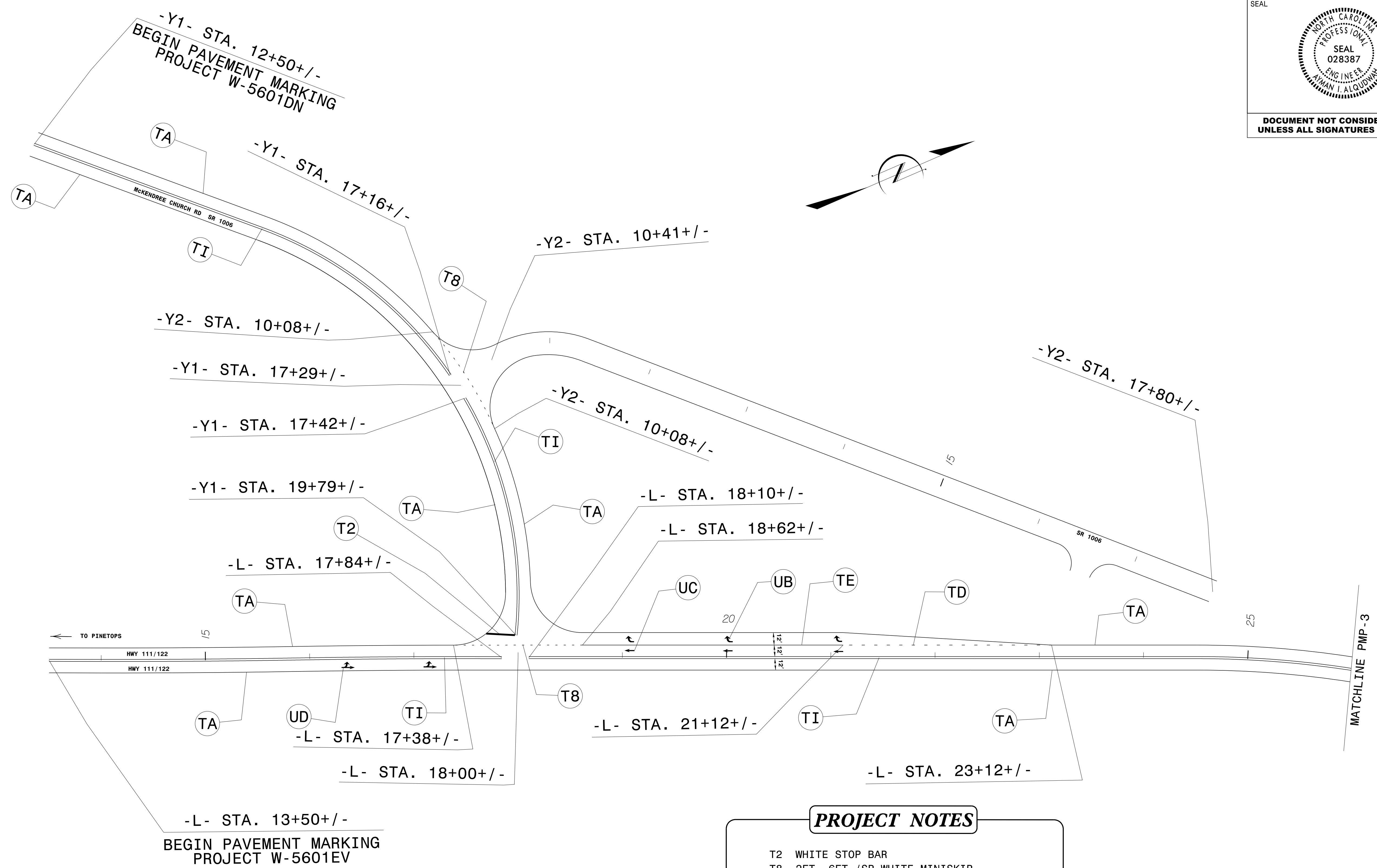
PLAN PREPARED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

AYMAN I. ALQUDWAH, PE SIGNING & DELINEATION REGIONAL ENGINEER

WALTER JOHNSON SIGNING & DELINEATION PROJECT DESIGN ENGINEER



**T.I.P.: W-5601DN**

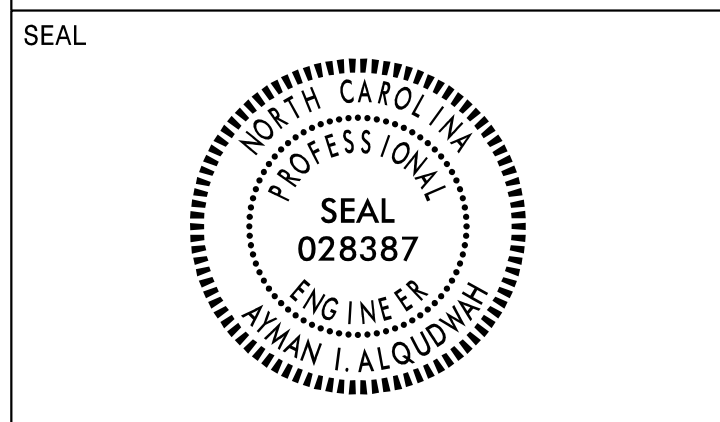


**PROJECT NOTES**

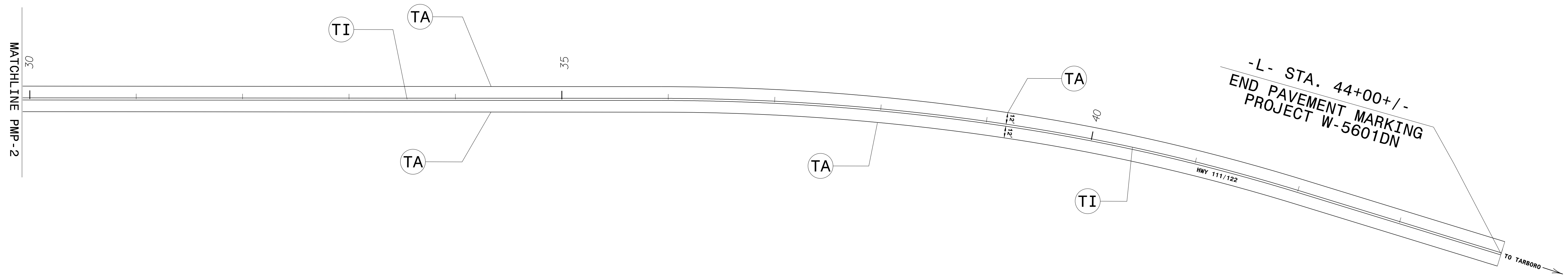
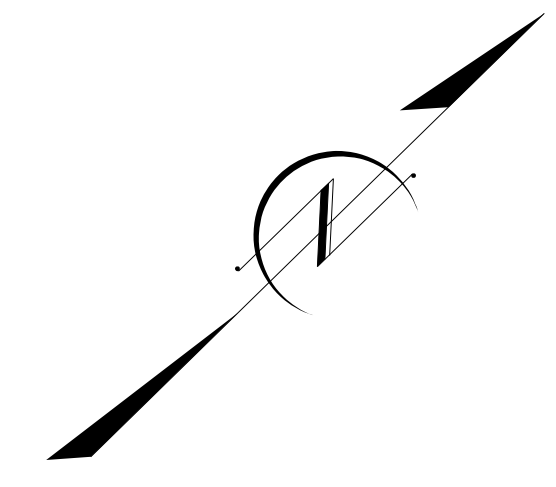
- T2 WHITE STOP BAR
- T8 2FT.-6FT./SP WHITE MINISKIP
- TA WHITE EDGELINE
- TD 3FT.-9FT./SP WHITE MINISKIP
- TE WHITE SOLID LANE LINE
- TI YELLOW DOUBLE CENTER
- UB RIGHT TURN ARROW
- UC STRAIGHT ARROW
- UD COMBO LEFT/STRAIGHT ARROW

**PAVEMENT MARKING DETAILS**

01/28/19  
 P:\Office\Signing\CADD\PM\W5601DN\_Sgn\_PMP\_PMP\_2.dgn  
 User: walterjohnson



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



**PROJECT NOTES**

- TA WHITE EDGELINE
- TI YELLOW DOUBLE CENTER

**PAVEMENT MARKING DETAILS**

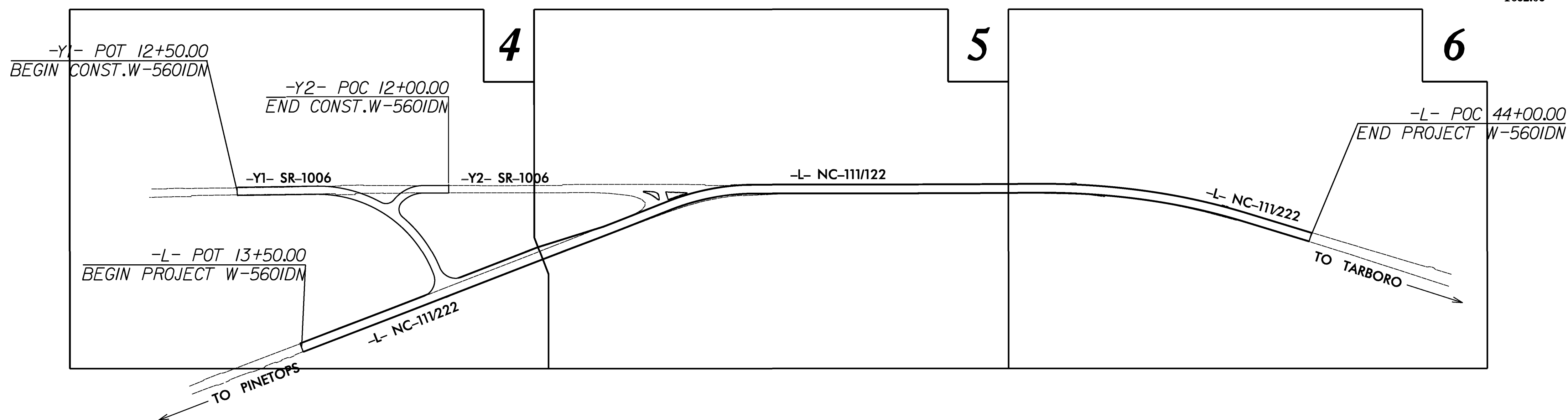
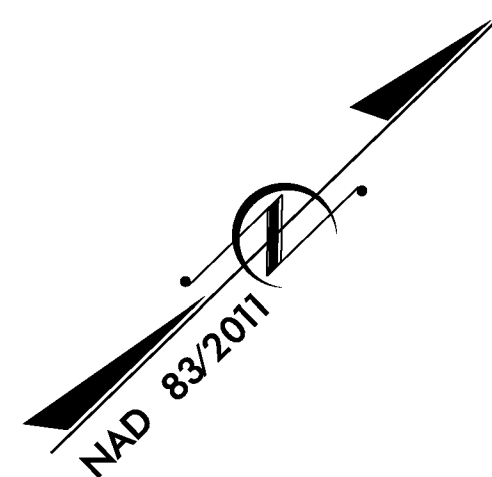
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**TIP PROJECT: W-5601DN**

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

**LOCATION: NC 111/NC 122 BETWEEN 0.19 MI SOUTH OF SR 1006  
(BULLOCK SCHOOL ROAD) AND 0.36 MI NORTH OF  
SR 1006 (BULLOCK SCHOOL ROAD).**

**TYPE OF WORK: GRADING, PAVING AND DRAINAGE**

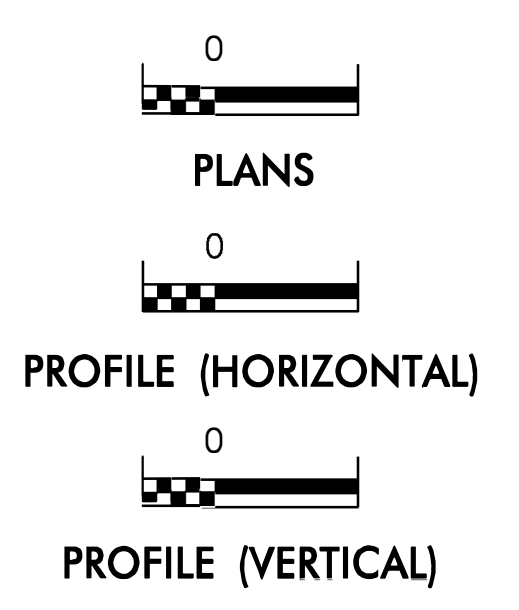


**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	no
1630.05	Temporary Diversion	TO
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	△△△△△
1622.01	Temporary Berms and Slope Drains	—▲—
1630.02	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▩
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	▩
1633.02	Temporary Rock Silt Check Type-B	▶
	Wattle/Coir Fiber Wattle	—○—
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	—○—
1634.01	Temporary Rock Sediment Dam Type-A	▩
1634.02	Temporary Rock Sediment Dam Type-B	▩
1635.01	Rock Pipe Inlet Sediment Trap Type-A	⊓
1635.02	Rock Pipe Inlet Sediment Trap Type-B	⊓
1630.04	Stilling Basin	▭
1630.06	Special Stilling Basin	▭
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	▭
	Tiered Skimmer Basin	▭
	Infiltration Basin	▭

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

**GRAPHIC SCALE**



ROADSIDE ENVIRONMENTAL UNIT  
DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY  
WITH THE REGULATIONS SET FORTH BY THE  
NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 1, 2016  
ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND  
NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared in the Office of:  
**ROADSIDE ENVIRONMENTAL UNIT**  
1 South Wilmington St.  
Raleigh, NC 27611  
**2018 STANDARD SPECIFICATIONS**

Designed by:  
**Wes Chandler, PE** **3374**  
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

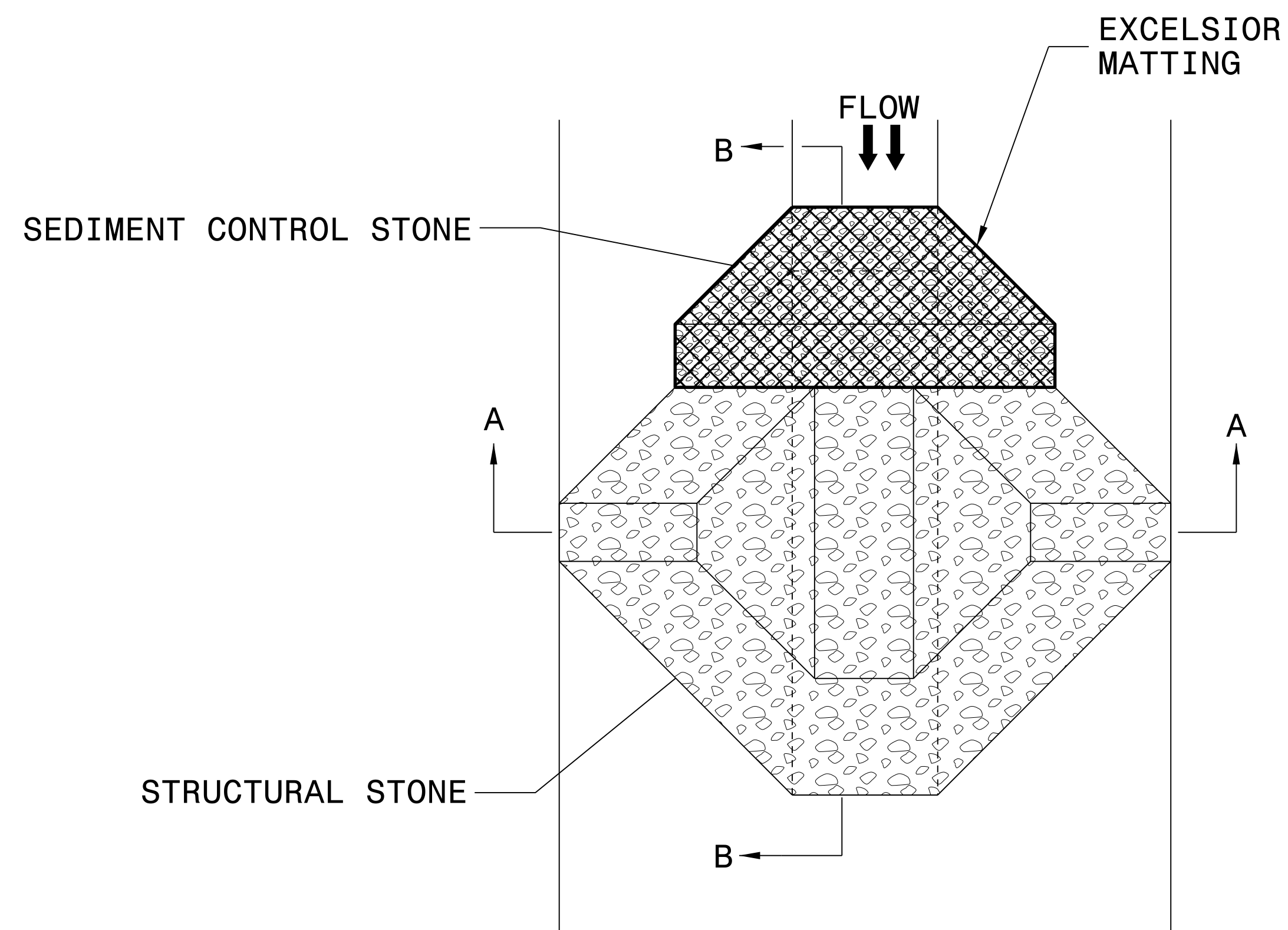
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

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 B
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 B
1630.01 Riser Basin	1633.03 Temporary Rock Silt Check Type C
1630.02 Silt Basin Type 3	1634.01 Temporary Rock Sediment Dam Type A
1630.03 Temporary Silt Ditch	1634.02 Temporary Rock Sediment Dam Type B
1630.04 Stilling Basin	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.05 Temporary Diversion	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.06 Special Stilling Basin	1640.01 Coir Fiber Jaffle
1631.01 Matting Installation	1645.01 Temporary Stream Crossing

06-APR-2018 (M57)  
PLAN FOR PROPOSED HIGHWAY EROSION CONTROL  
W-5601DN, EC-1, SHEET 1 OF 1

PROJECT REFERENCE NO. W-5601DN	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)



PLAN

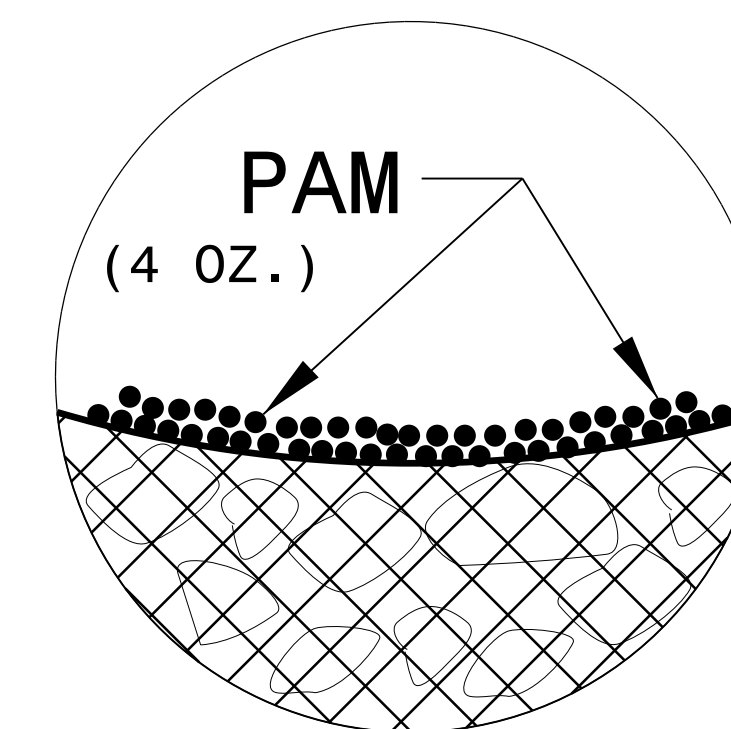
**NOTES:**

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

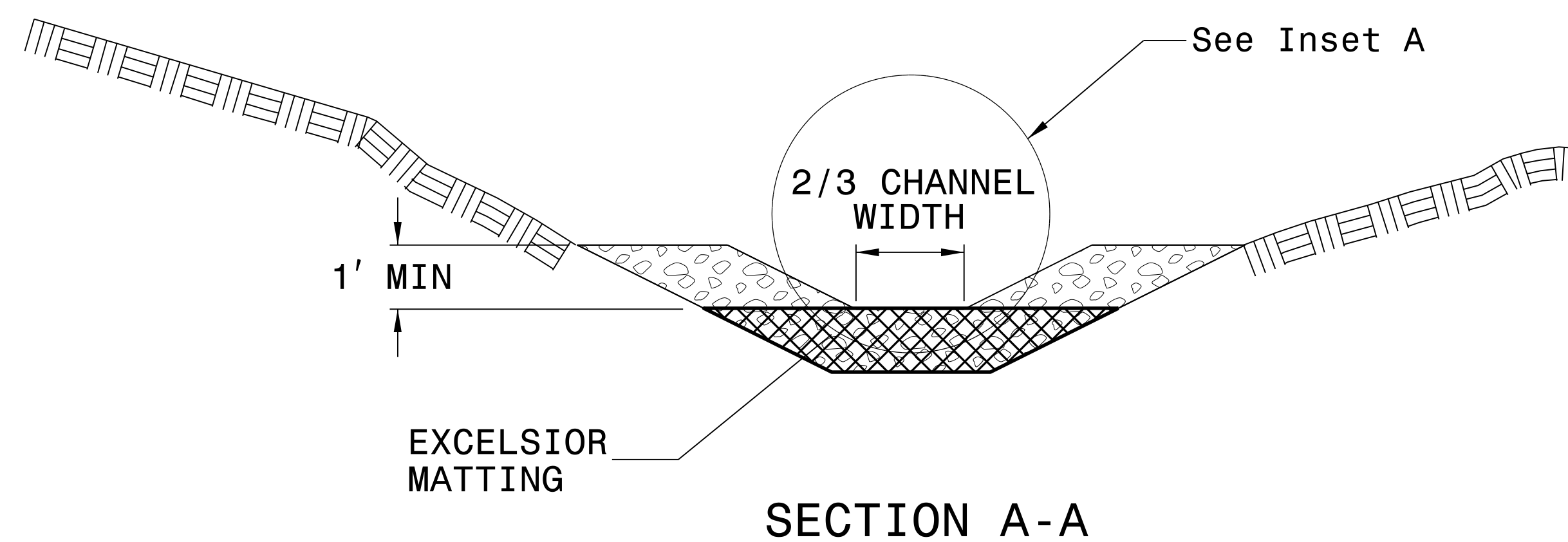
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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 ROCK SILT CHECK.

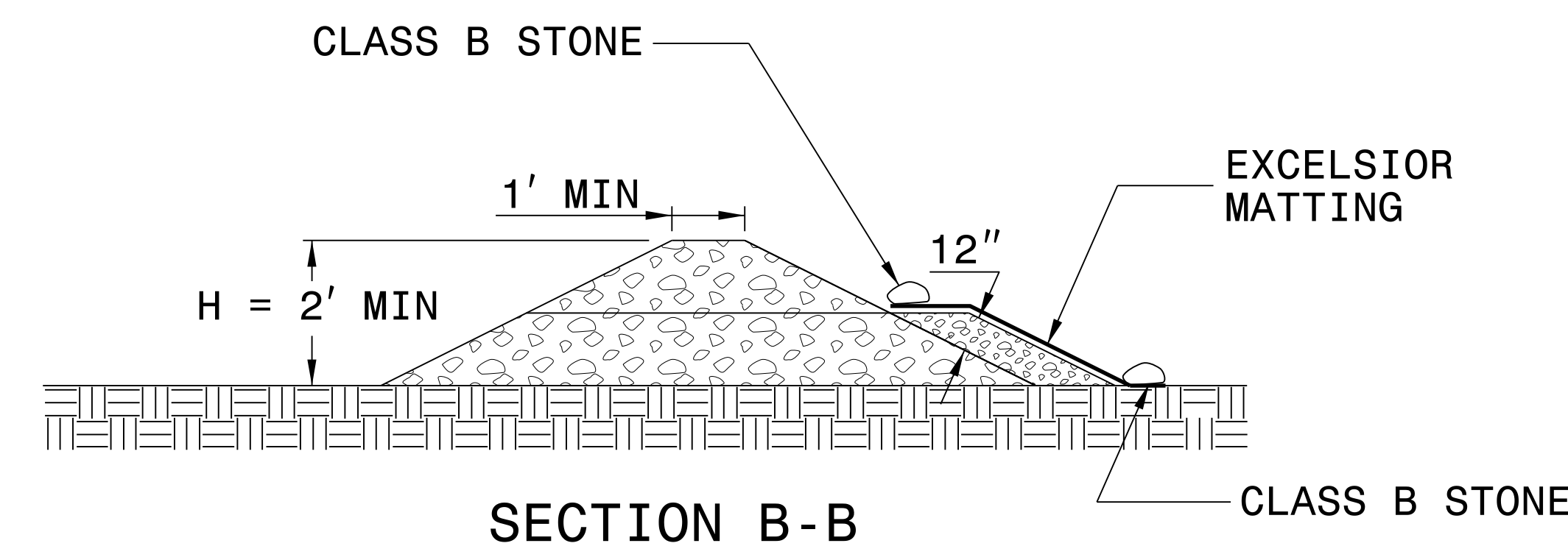
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A

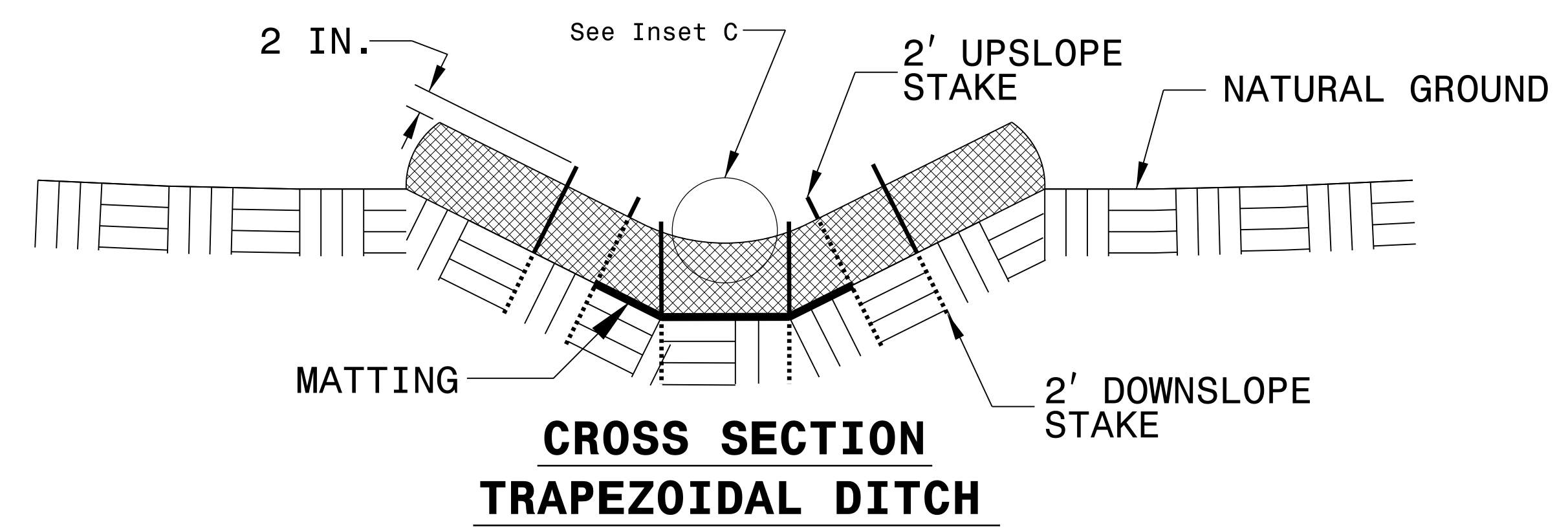
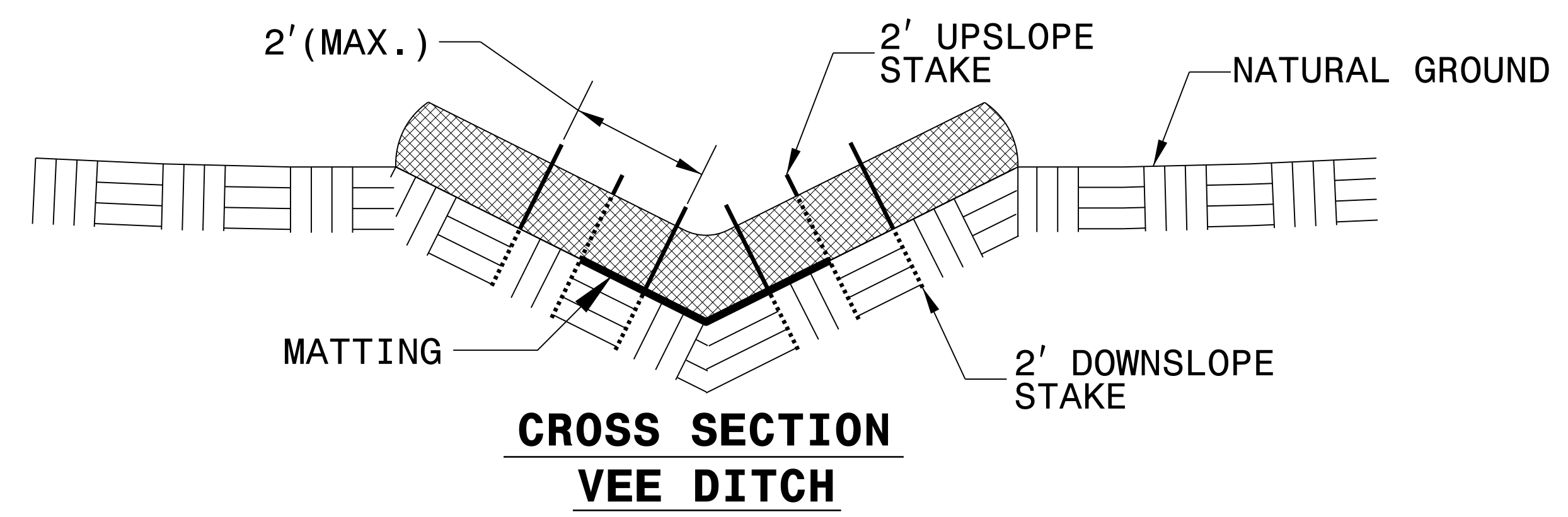
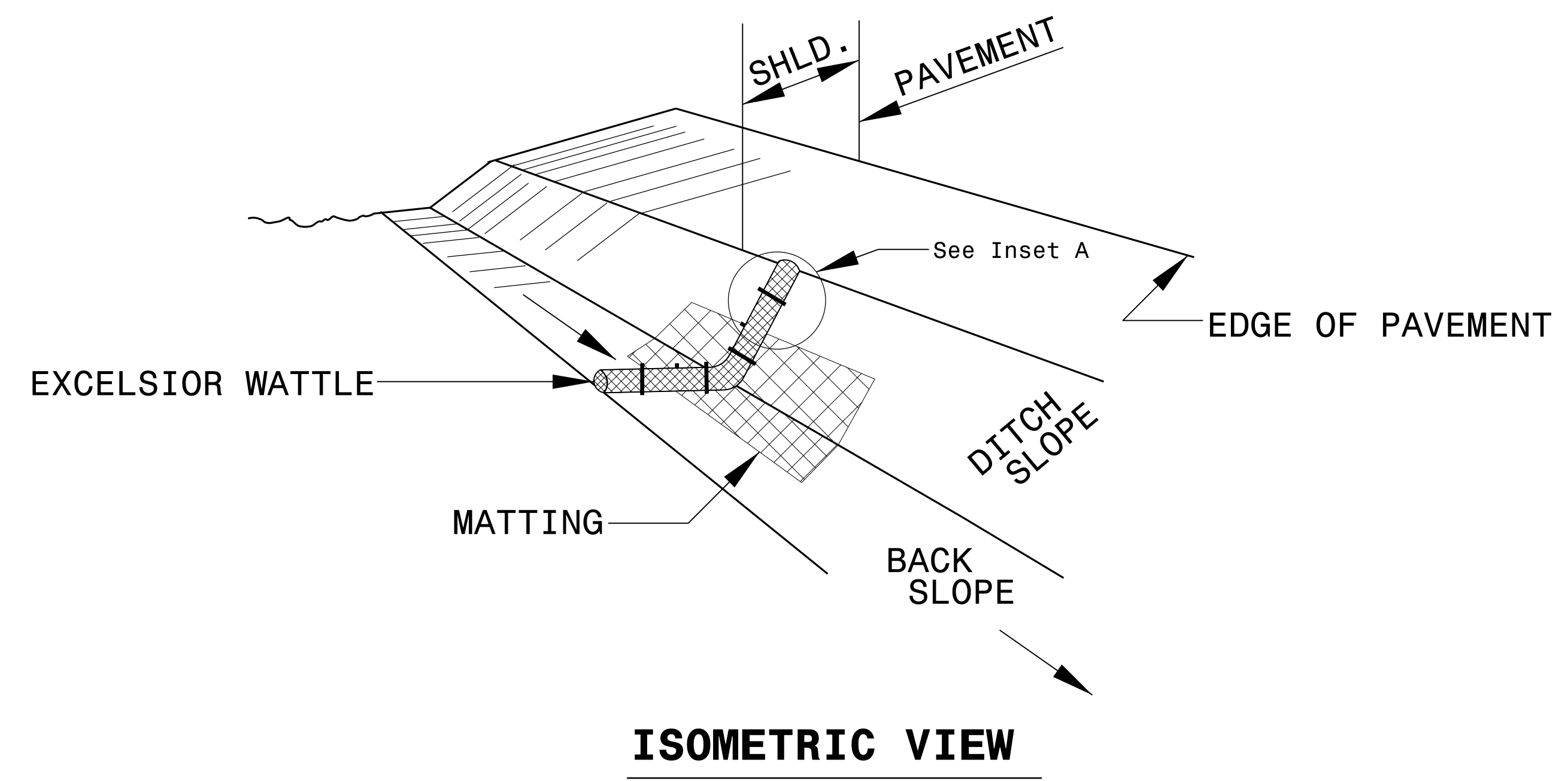


SECTION B-B

NOT TO SCALE

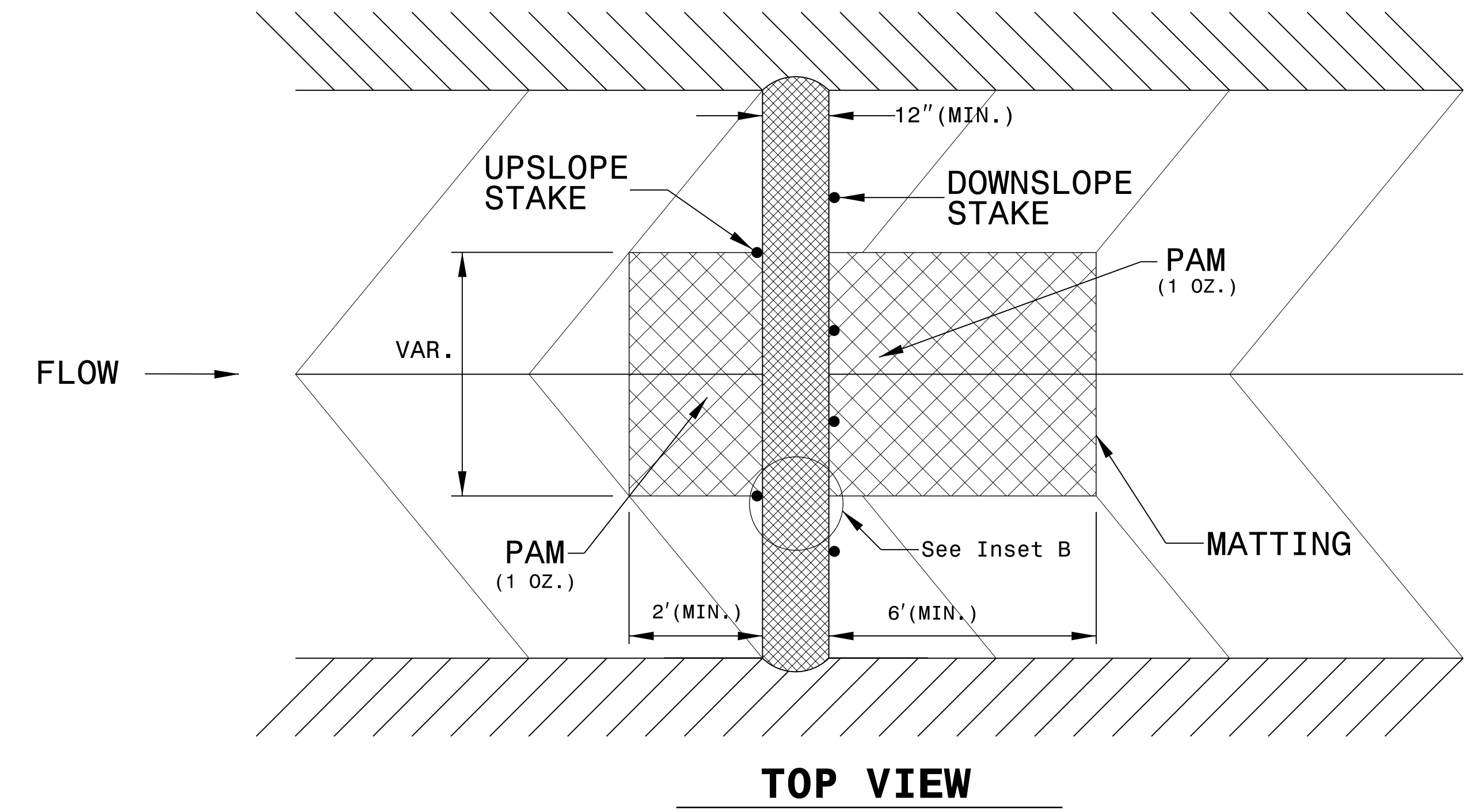
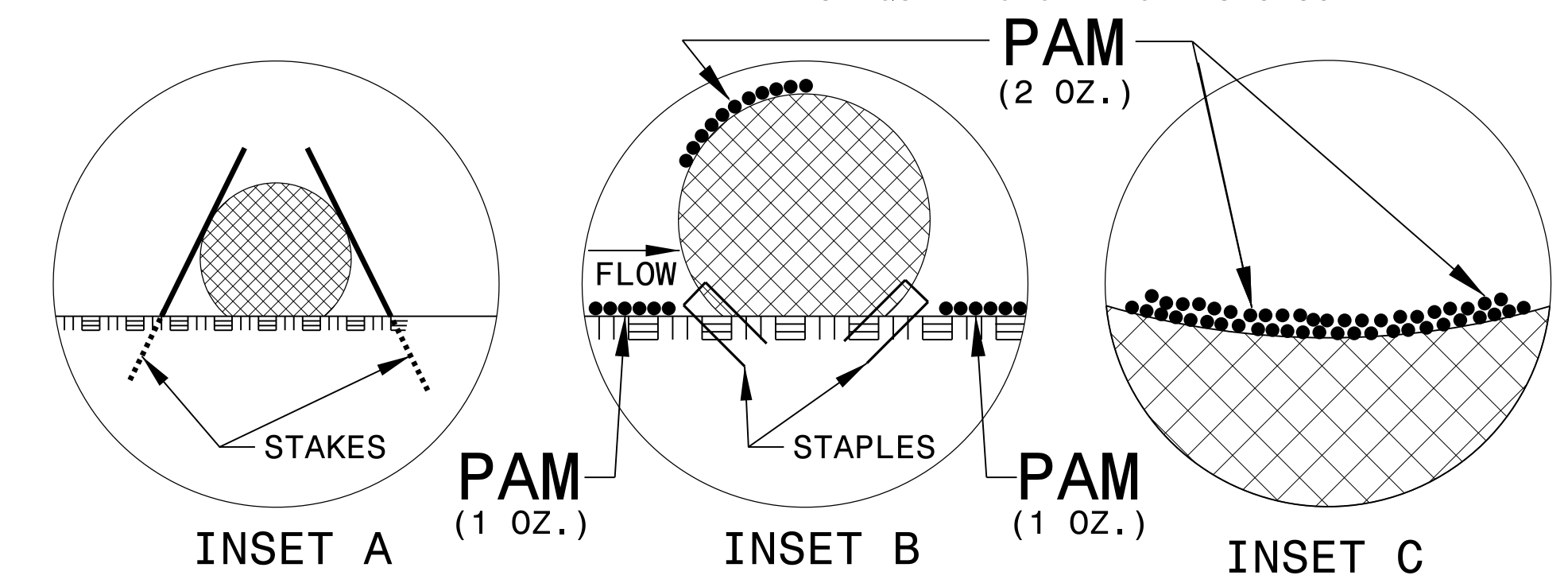
PROJECT REFERENCE NO. W-5601DN	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# 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.



DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>W-5601DN</i>	SHEET NO. <i>EC-3</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

## SOIL STABILIZATION SUMMARY SHEET

### *MATTING FOR EROSION CONTROL*

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-Y1-	19+00	19+50	LT	35
5	-L-	24+50	26+50	LT	140
5	-L-	27+50	35+00	LT	785
5	-L-	28+00	34+50	RT	680
6	-L-	40+50	42+00	RT	105
6	-L-	41+50	44+00	LT	175
6	-L-	42+00	44+00	RT	140
				SUBTOTAL	2,060
				MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER	2,000
				TOTAL	4,060
				SAY	4,100

### *PERMANENT SOIL REINFORCEMENT MAT*

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
5	-L-	34+50	35+00	RT	35
6	-L-	40+50	41+50	LT	70
				SUBTOTAL	105
				ADDITIONAL PSRM TO BE INSTALLED	0
				TOTAL	105
				SAY	105

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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PROJECT REFERENCE NO. <i>W-5601DN</i>	SHEET NO. <i>EC-3A</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# ***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 (HQW) 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 HQW ZONES.

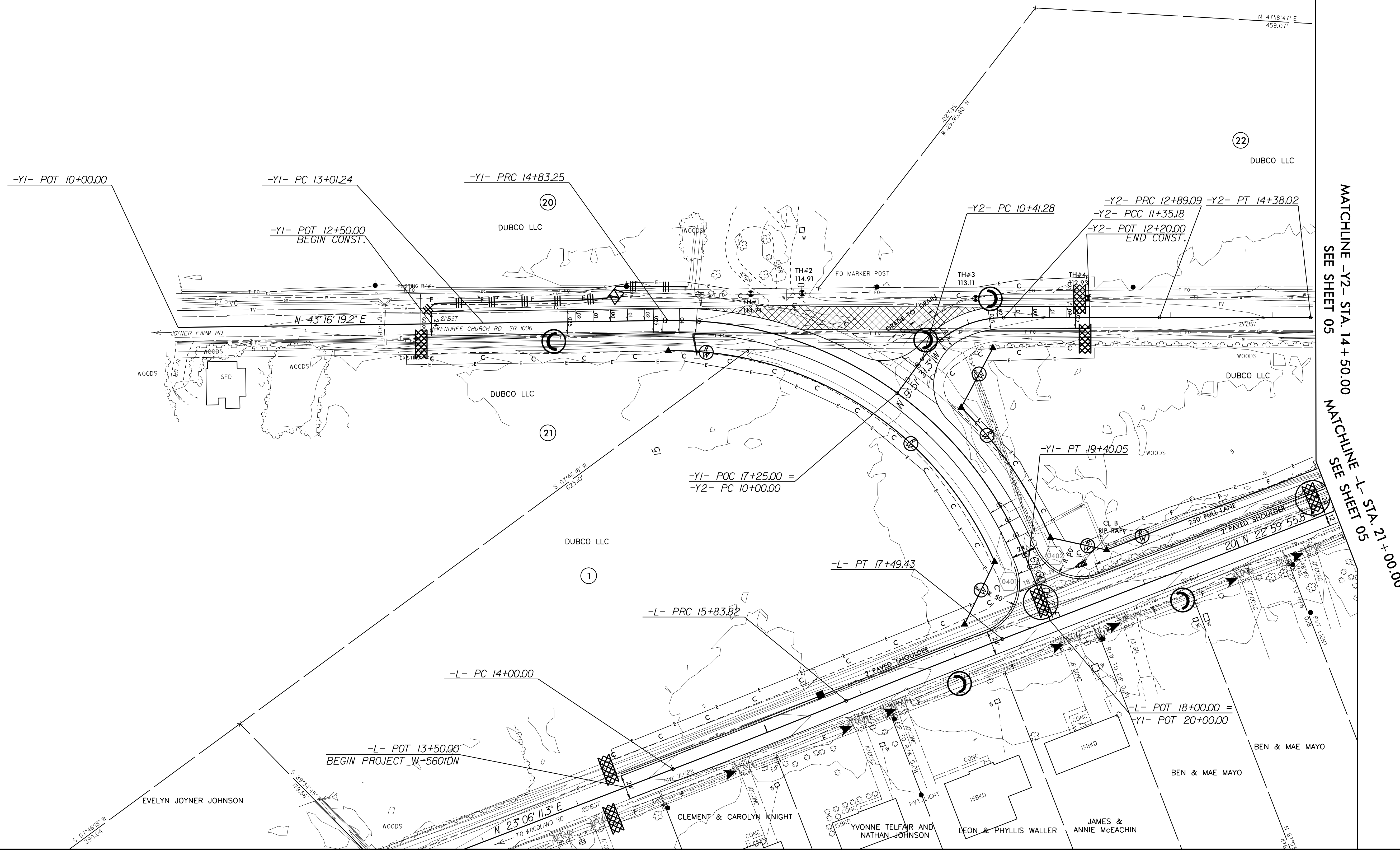
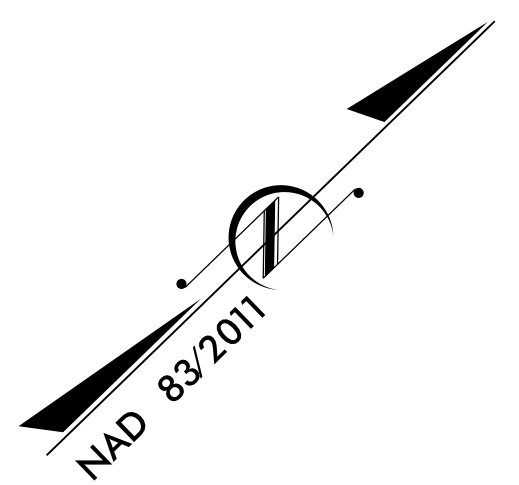


8/17/99

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

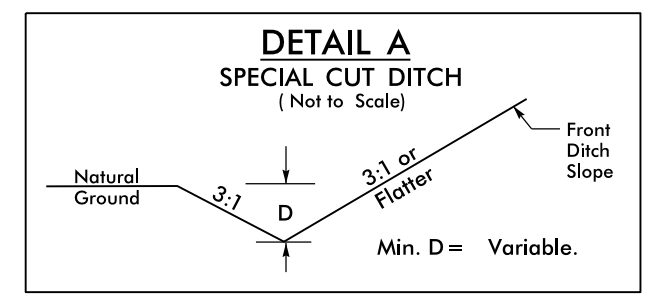
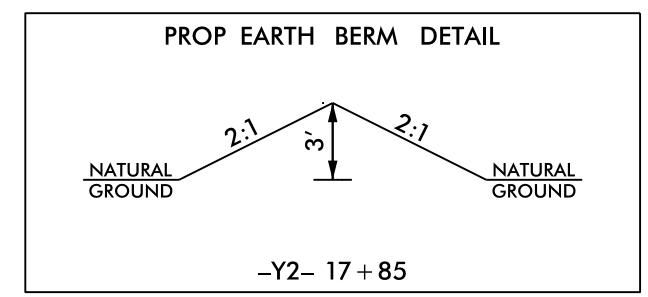
PROJECT REFERENCE NO.	SHEET NO.
W-560/DN	EC-4/CONST.4
R/W SHEET NO.	04
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE -Y2- STA. 14+50.00 SEE SHEET 05  
 MATCHLINE -L- STA. 21+00.00 SEE SHEET 05

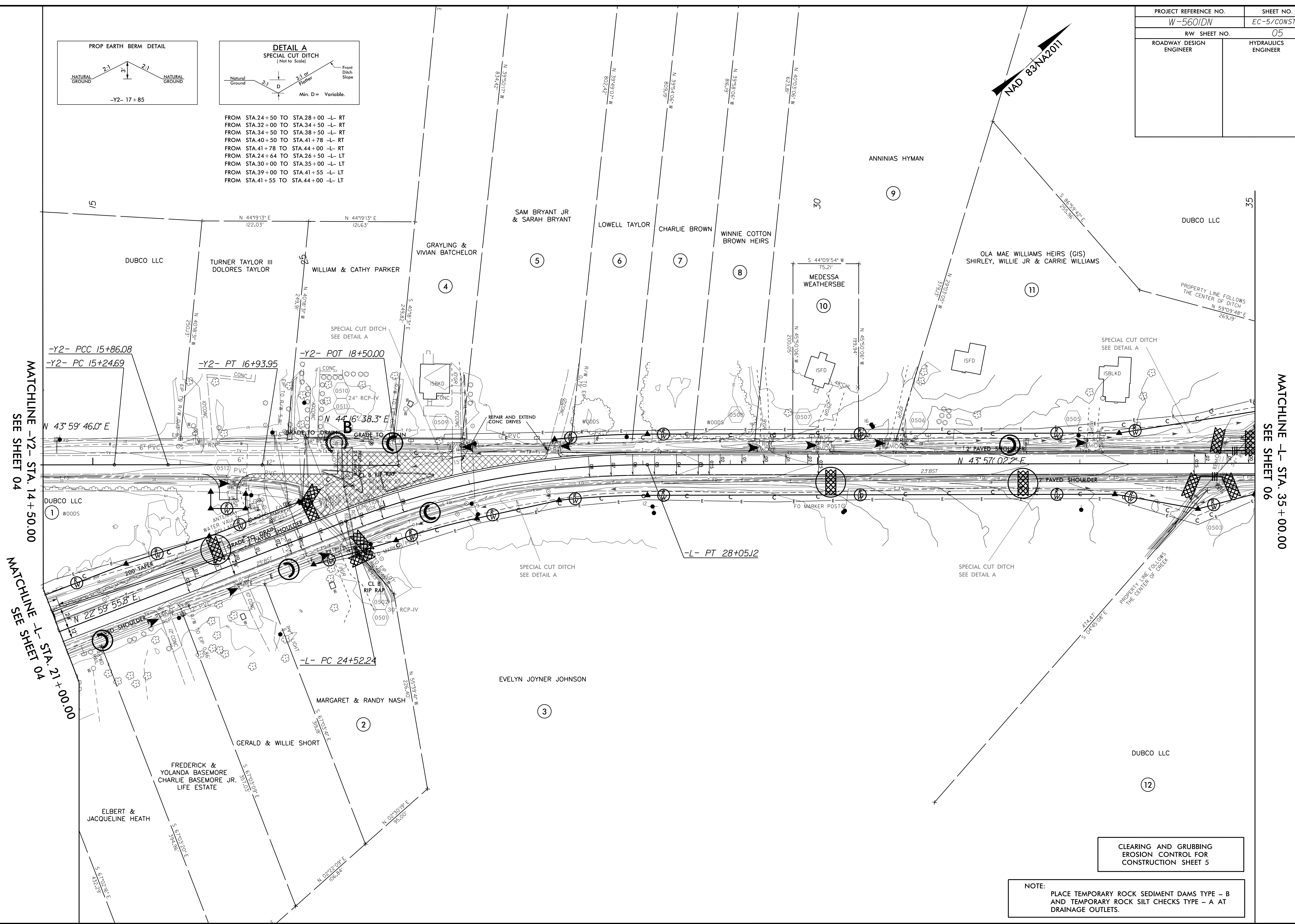
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PROJECT REFERENCE NO.	SHEET NO.
W-560/DN	EC-5/CONST-5
R/W SHEET NO.	05
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



- FROM STA.24+50 TO STA.28+00 -L- RT
- FROM STA.32+00 TO STA.34+50 -L- RT
- FROM STA.34+50 TO STA.38+50 -L- RT
- FROM STA.40+50 TO STA.41+78 -L- RT
- FROM STA.41+78 TO STA.44+00 -L- RT
- FROM STA.24+64 TO STA.26+50 -L- LT
- FROM STA.30+00 TO STA.35+00 -L- LT
- FROM STA.39+00 TO STA.41+55 -L- LT
- FROM STA.41+55 TO STA.44+00 -L- LT

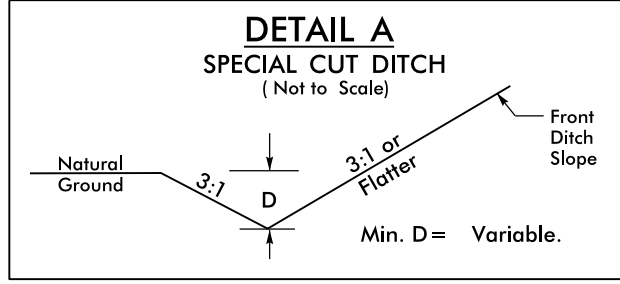
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CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 5

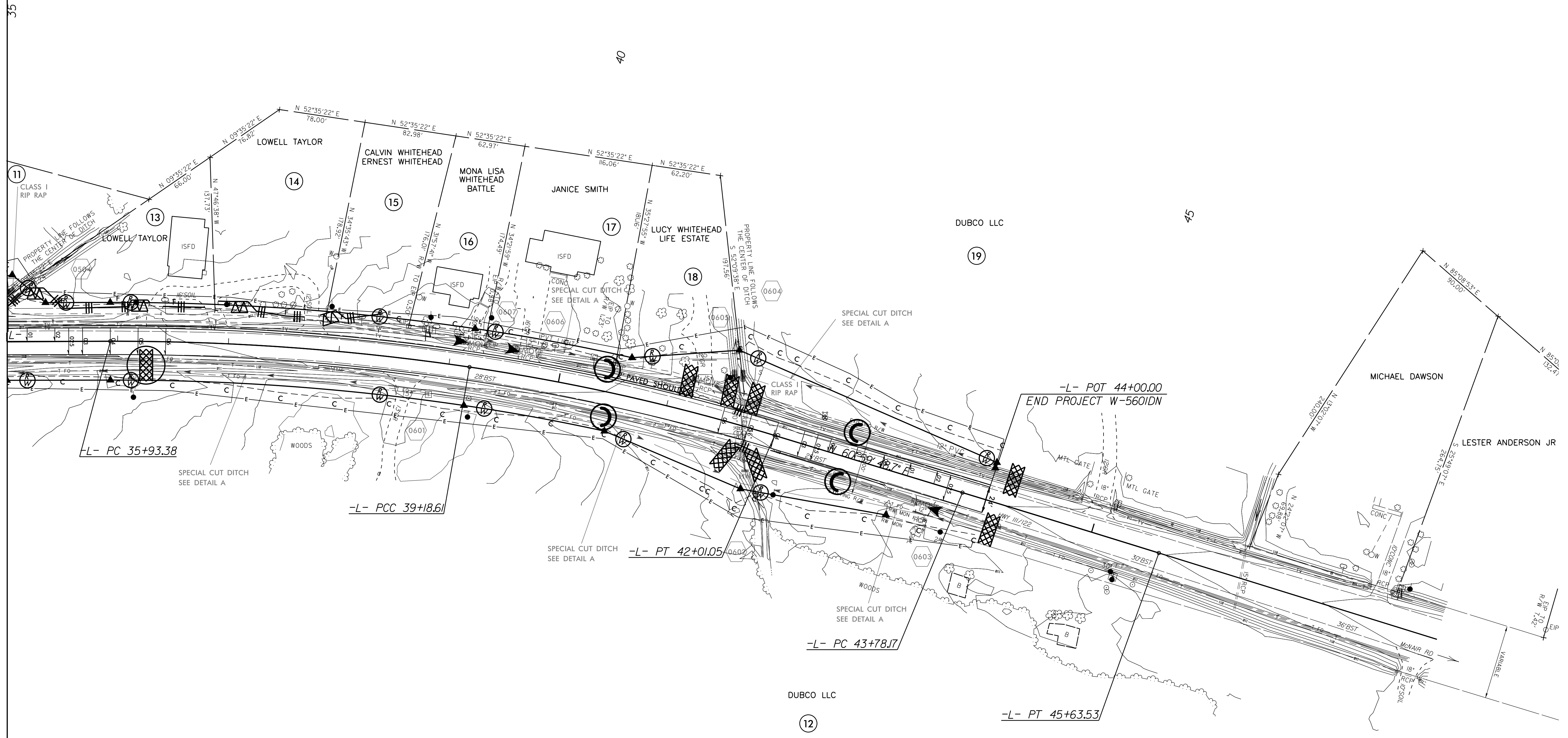
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

PROJECT REFERENCE NO.	SHEET NO.
W-560IDN	EC-6/CONST.6
R/W SHEET NO.	06
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



- FROM STA.24+50 TO STA.28+00 -L- RT
- FROM STA.32+00 TO STA.34+50 -L- RT
- FROM STA.34+50 TO STA.38+50 -L- RT
- FROM STA.40+50 TO STA.41+78 -L- RT
- FROM STA.41+78 TO STA.44+00 -L- RT
- FROM STA.24+64 TO STA.26+50 -L- LT
- FROM STA.30+00 TO STA.35+00 -L- LT
- FROM STA.39+00 TO STA.41+55 -L- LT
- FROM STA.41+55 TO STA.44+00 -L- LT

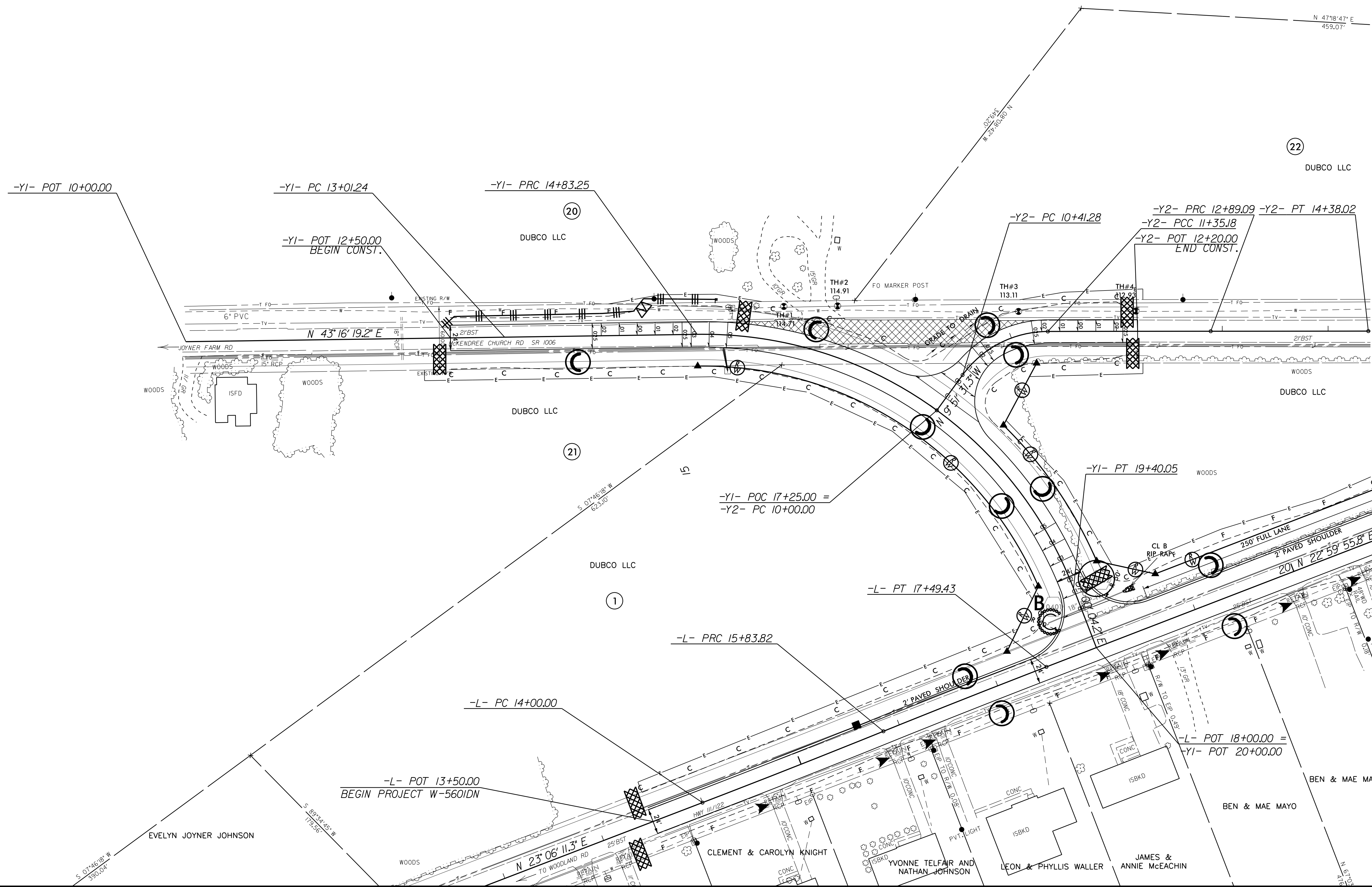
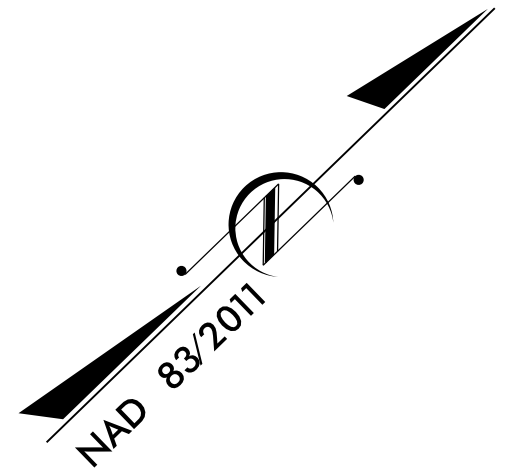
MATCHLINE -L- STA. 35+00.00  
SEE SHEET 05



CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 6

NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

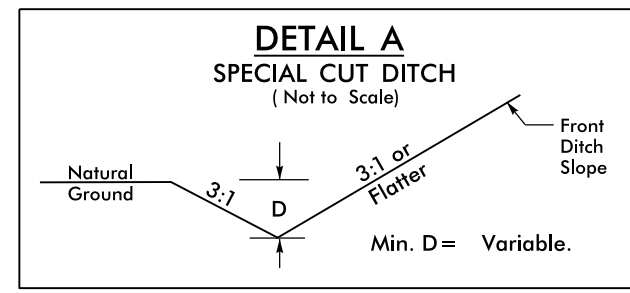
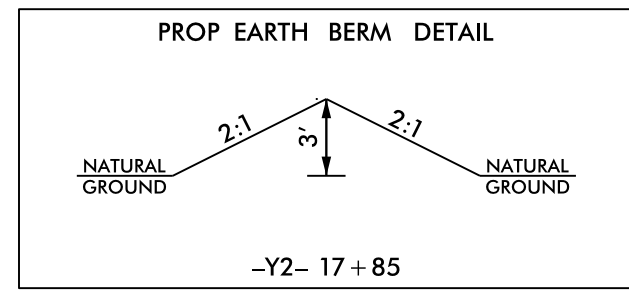
PROJECT REFERENCE NO.	SHEET NO.
W-560/DN	EC-7/CONST.4
R/W SHEET NO.	04
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE -Y2- STA. 14+50.00 SEE SHEET 05  
 MATCHLINE -L- STA. 21+00.00 SEE SHEET 05

8/17/99  
 03-APR-2018 08:30 D:\s19a\W-560\IDN\_EC.PSH04.dgn  
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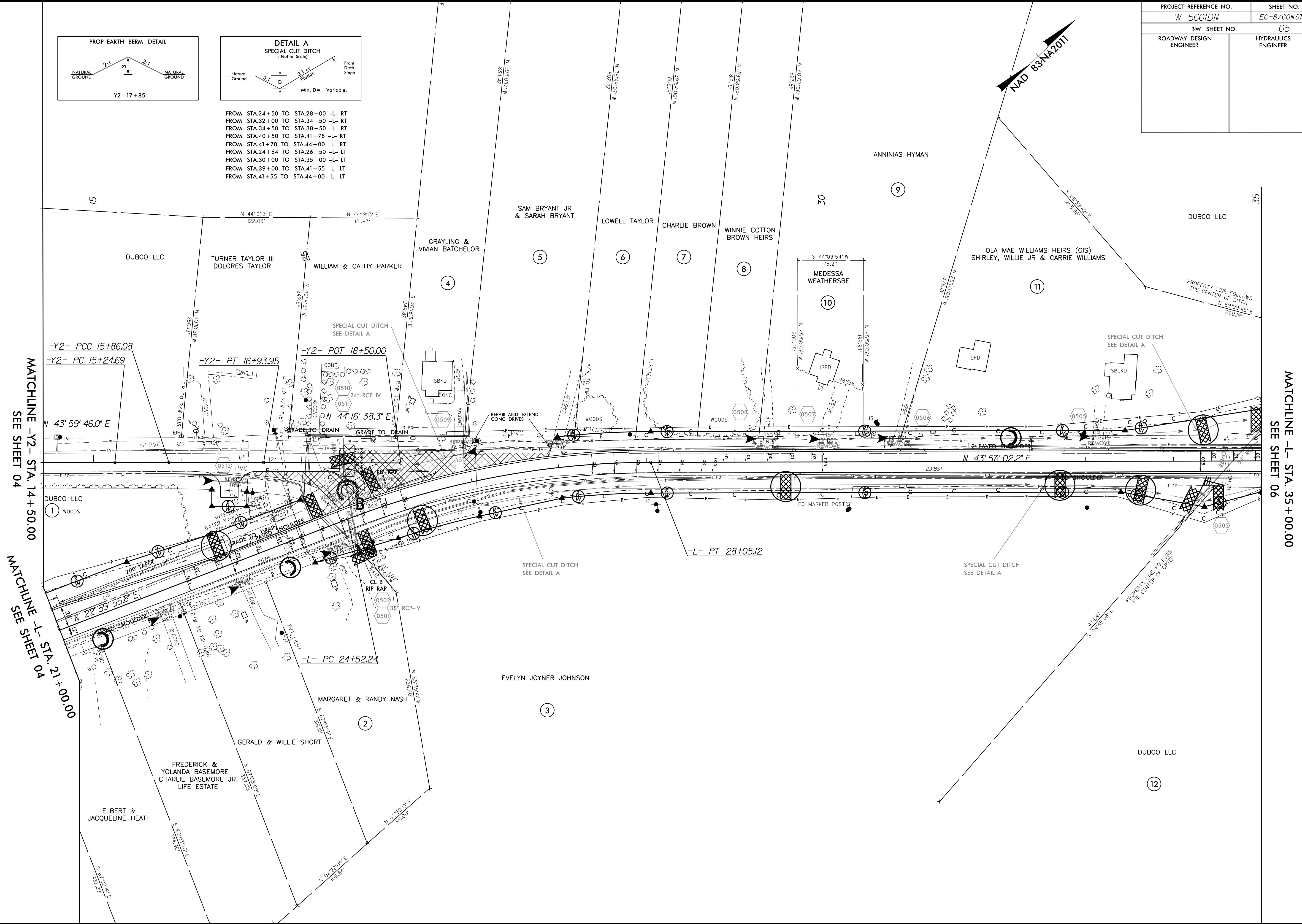
PROJECT REFERENCE NO.	SHEET NO.
W-560/DN	EC-8/CONST-5
R/W SHEET NO.	05
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



FROM STA.24+50 TO STA.28+00 -L- RT  
 FROM STA.32+00 TO STA.34+50 -L- RT  
 FROM STA.34+50 TO STA.38+50 -L- RT  
 FROM STA.40+50 TO STA.41+78 -L- RT  
 FROM STA.41+78 TO STA.44+00 -L- RT  
 FROM STA.24+64 TO STA.26+50 -L- LT  
 FROM STA.30+00 TO STA.35+00 -L- LT  
 FROM STA.39+00 TO STA.41+55 -L- LT  
 FROM STA.41+55 TO STA.44+00 -L- LT

8/17/99

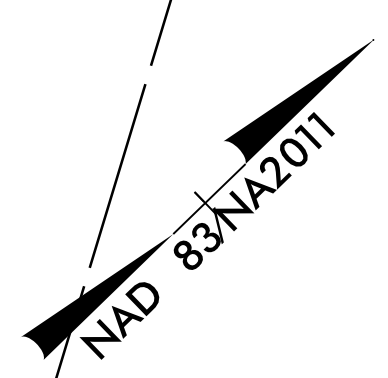
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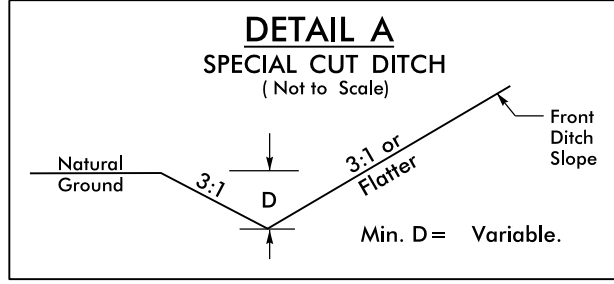
MATCHLINE -Y2- STA. 14+50.00  
SEE SHEET 04

MATCHLINE -L- STA. 21+00.00  
SEE SHEET 04

MATCHLINE -L- STA. 35+00.00  
SEE SHEET 06

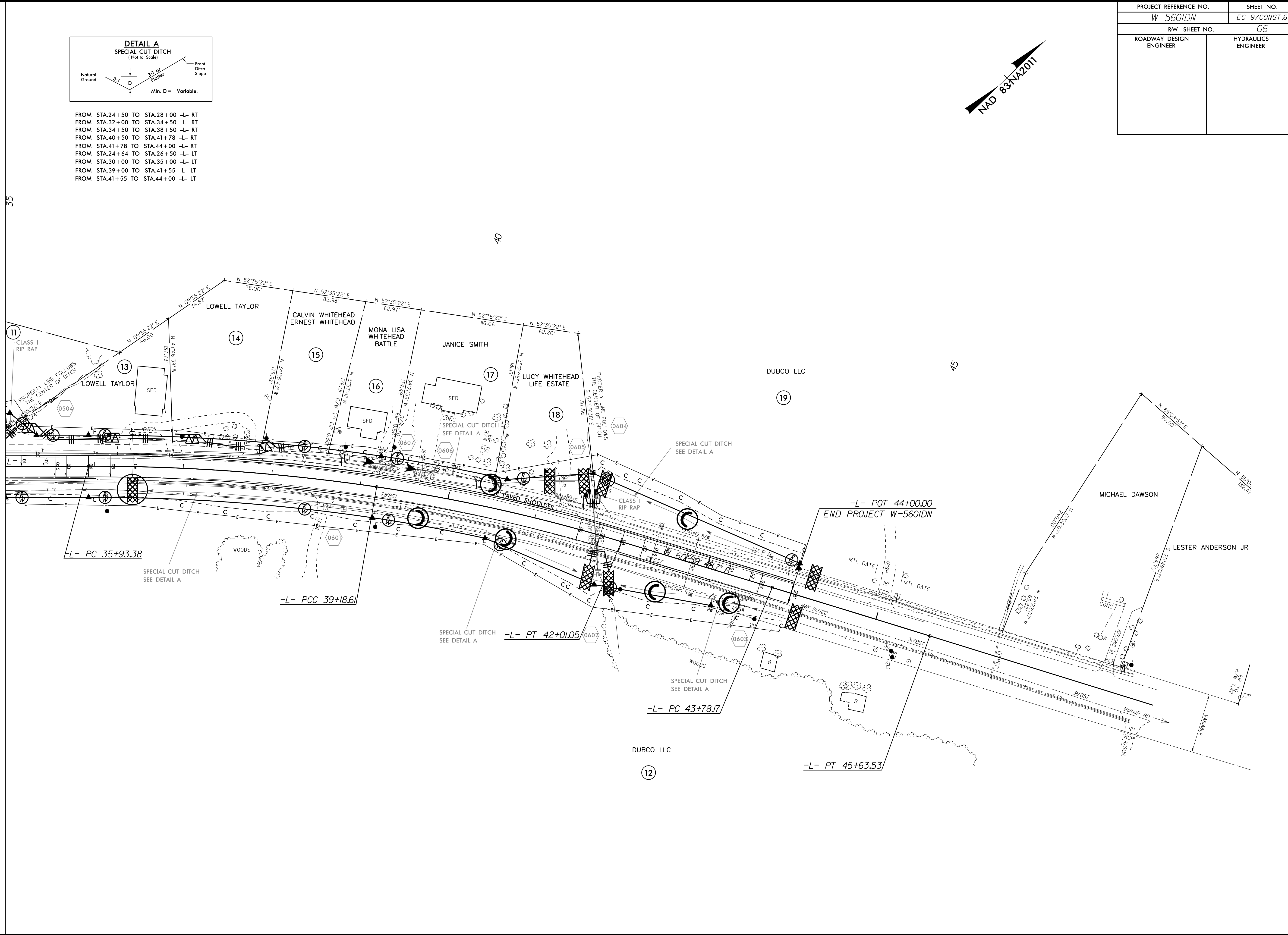


PROJECT REFERENCE NO.	SHEET NO.
W-560IDN	EC-9/CONST.6
RW SHEET NO.	06
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



- FROM STA.24+50 TO STA.28+00 -L- RT
- FROM STA.32+00 TO STA.34+50 -L- RT
- FROM STA.34+50 TO STA.38+50 -L- RT
- FROM STA.40+50 TO STA.41+78 -L- RT
- FROM STA.41+78 TO STA.44+00 -L- RT
- FROM STA.24+64 TO STA.26+50 -L- LT
- FROM STA.30+00 TO STA.35+00 -L- LT
- FROM STA.39+00 TO STA.41+55 -L- LT
- FROM STA.41+55 TO STA.44+00 -L- LT

MATCHLINE -L- STA. 35+00.00  
SEE SHEET 05



8/17/99  
03-APR-2018 10:23 D:\s195\W-560IDN\_EC\_PSH06.dgn  
REVISION 1  
REVISION 2  
REVISION 3

**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
EDGECOMBE COUNTY**

**LOCATION: NC 11/NC 122 BETWEEN 0.19 MI SOUTH OF SR 1006(BULLOCK SCHOOL ROAD)  
AND 0.36 MI NORTH OF SR 1006 (BULLOCK SCHOOL ROAD).**

PROJECT REFERENCE NO. <b>W-5601DN</b>	SHEET NO. <b>SIGN-1</b>
APPROVED: <b>Ayman Alquodway</b> F32ACSCAF865472..	
DATE: 1/7/2019	
SEAL 	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

**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
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	263	L.F.
4096000000	904	SIGN ERECTION, TYPE D	1	EA.
4102000000	904	SIGN ERECTION, TYPE E	14	EA.
4108000000	904	SIGN ERECTION, TYPE F	2	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	10	EA.
4158000000	907	DISPOSAL OF SIGN SYSTEM, WOOD	5	EA.

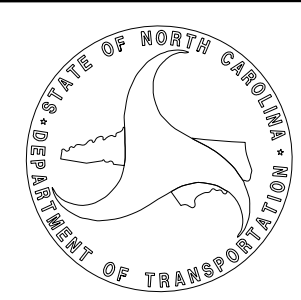
**INDEX**

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2	E AND F SHEETS
SIGN-3	SIGN DESIGNS
SIGN-4-6	SIGNING PLAN SHEETS

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

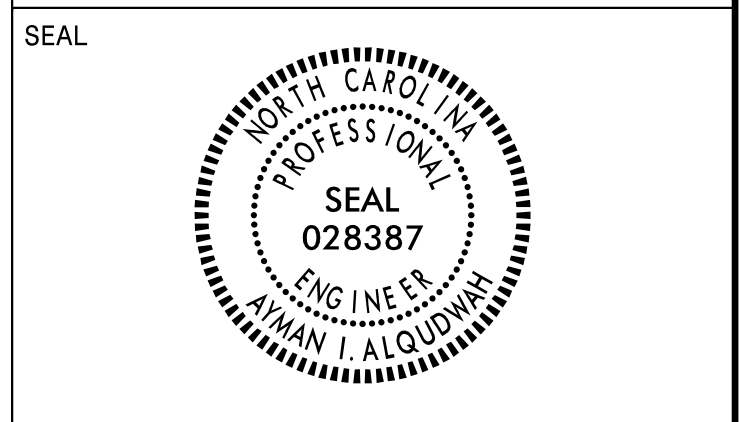
AYMAN ALQUODWAY, PE SIGNING & DELINEATION REGIONAL ENGINEER

WALTER JOHNSON SIGNING & DELINEATION PROJECT DESIGN ENGINEER



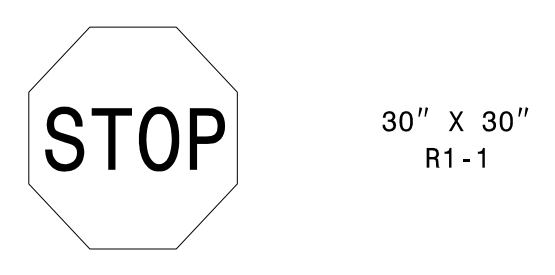
T.I.P.: W-5601DN

DocuSigned by:  
*Ayman Alqudwah*  
F32AC5CAF86472...  
APPROVED: \_\_\_\_\_  
DATE: 10/8/2018



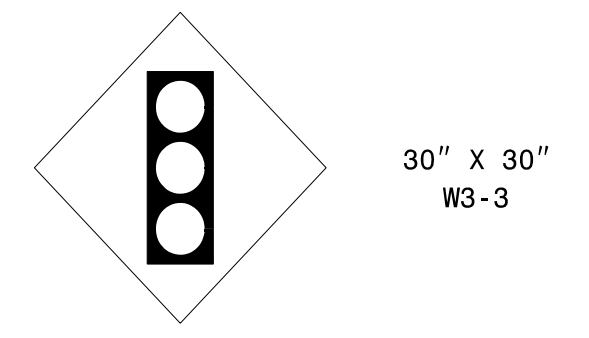
**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

401 QUANTITY REQ'D 2



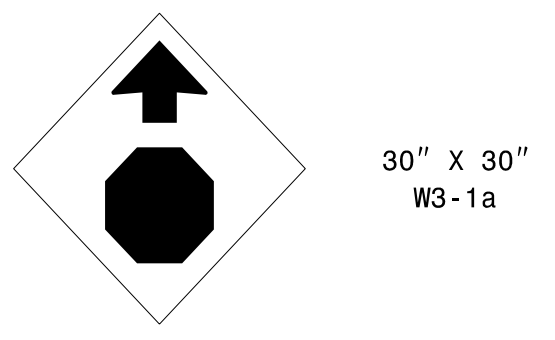
ONE "U" POST PER SIGN

407 QUANTITY REQ'D 1



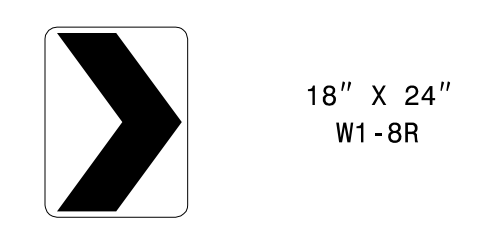
ONE "U" POST PER SIGN

402 QUANTITY REQ'D 2



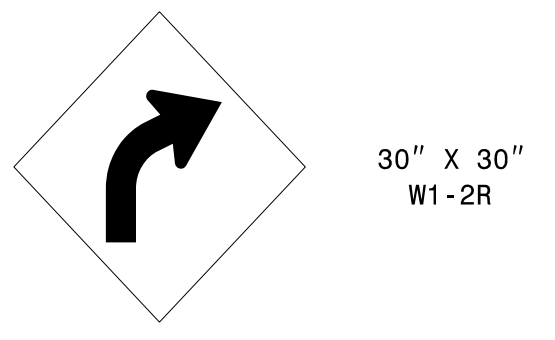
ONE "U" POST PER SIGN

408 QUANTITY REQ'D 2



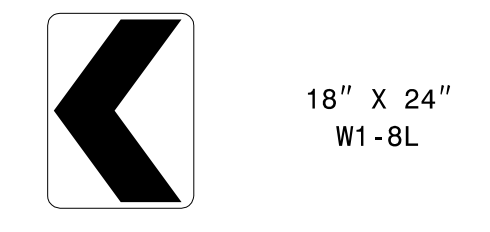
ONE "U" POST PER SIGN

403 QUANTITY REQ'D 1



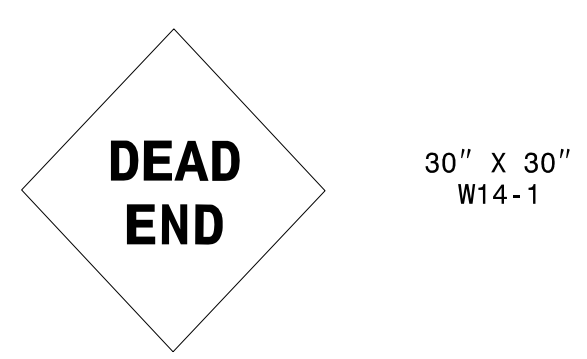
ONE "U" POST PER SIGN

409 QUANTITY REQ'D 2



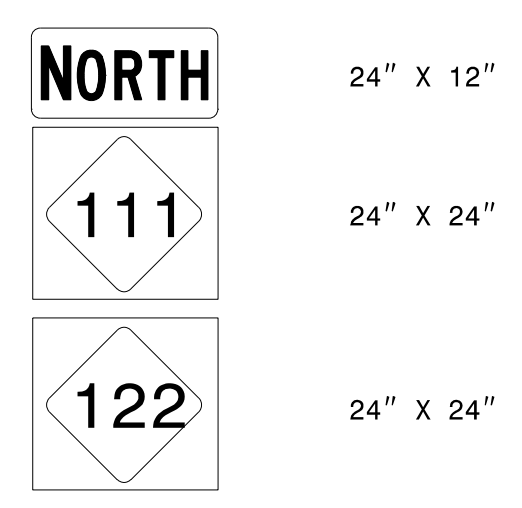
MOUNTED BACK TO BACK  
IN 2 INSTALLATIONS  
WITH SIGN 408

405 QUANTITY REQ'D 1



ONE "U" POST PER SIGN

501



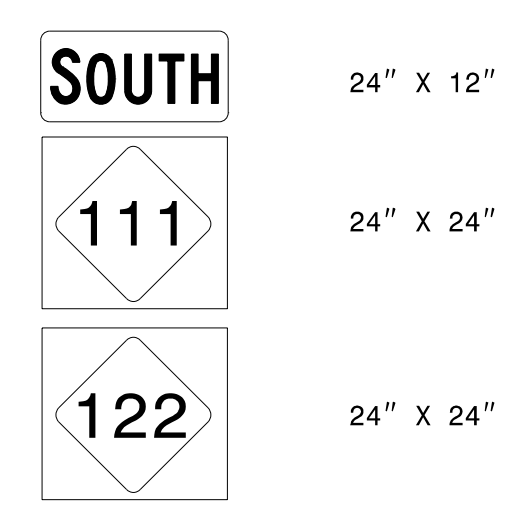
ONE "U" POST PER SIGN

406 QUANTITY REQ'D 3



ONE "U" POST PER SIGN

502



ONE "U" POST PER SIGN

**TYPE "E" & "F" SIGNS**

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 R:\Traffic\Signing\CADD\Signing Layout Plans\W5601DN\_sgn\_SGN\_P5H02.dgn  
 User: jct-johnson

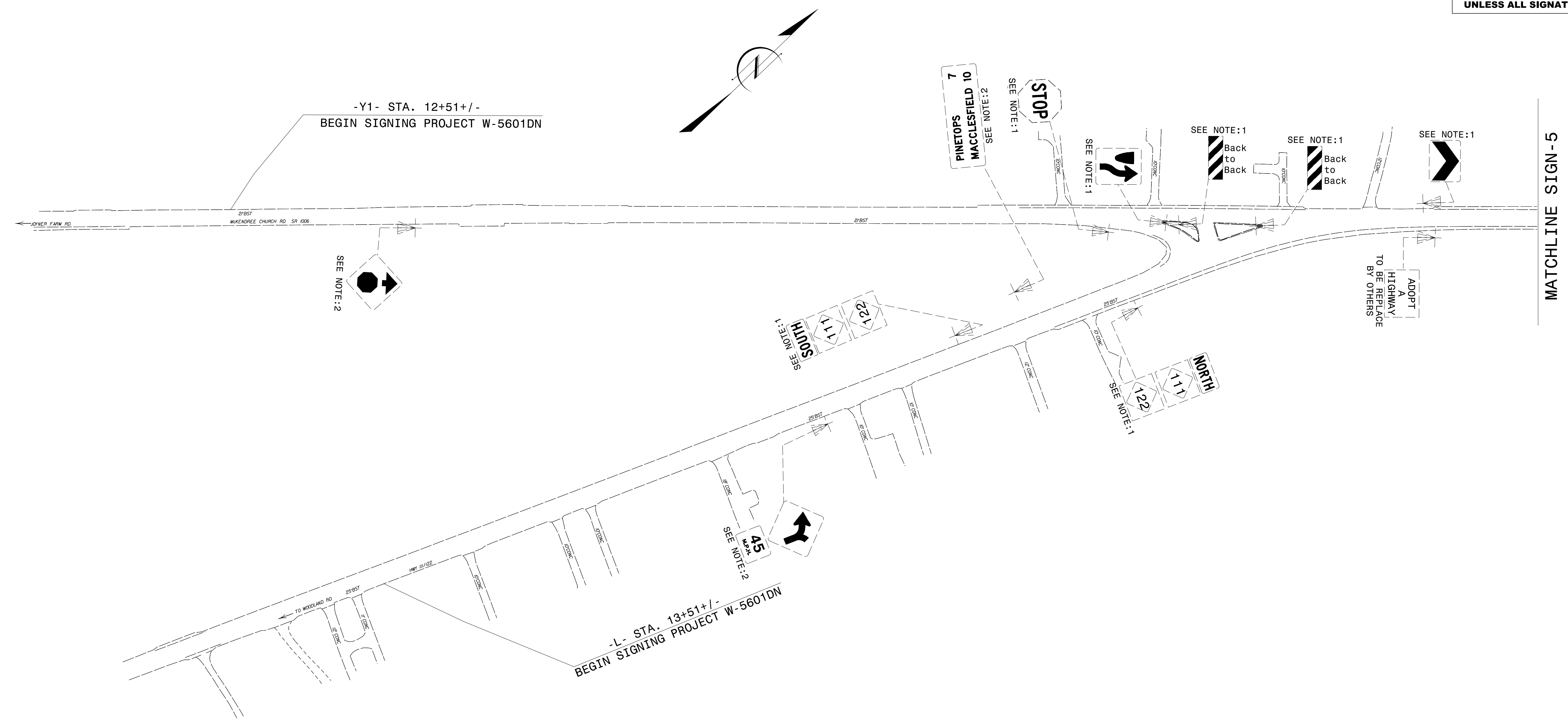


TIP NO. W-5601DN	SHEET NO. SIGN-3
APPROVED: <i>Ayman Alqudwah</i> F50ADSCAF98472	
DATE: 5/7/2018	
SEAL	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

<b>SIGN NUMBER:</b> 301 <b>TYPE:</b> D <b>QUANTITY:</b> 1 <b>SIGN WIDTH:</b> 7'-0" <b>HEIGHT:</b> 2'-6" <b>TOTAL AREA:</b> 17.5 Sq.Ft. <b>BORDER TYPE:</b> FLUSH <b>RECESS:</b> 0" <b>WIDTH:</b> 1" <b>RADII:</b> 3" <b>NO. Z BARS:</b> <b>LENGTH:</b>	<b>BACKG COLOR:</b> Green <b>COPY COLOR:</b> White <table border="1" style="width: 100%; text-align: center;"> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	SYMBOL	X	Y	WID	HT																																														<b>DESIGN BY:</b> W. Johnson <b>PROJECT ID:</b> W-5601DN	<b>CHECKED BY:</b> AIA <b>LOCATION:</b> NC 111/122	<b>Mar 27, 2018</b> <b>DIV:</b> 4																																																																																		
SYMBOL	X	Y	WID	HT																																																																																																																																				
<b>USE NOTES:</b> 1,2 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.																																																																																																																																								
<b>LETTER POSITIONS</b> Letter spacings are to start of next letter																																																																																																																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>P</th><th>I</th><th>N</th><th>E</th><th>T</th><th>O</th><th>P</th><th>S</th><th>7</th> <th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th> <th>Series/Size</th> </tr> <tr> <th></th> <th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th> <th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th> <th>Text Length</th> </tr> </thead> <tbody> <tr> <td></td> <td>7.1</td><td>5</td><td>2.4</td><td>5.5</td><td>4.2</td><td>4.5</td><td>5.6</td><td>4.6</td><td>4.1</td><td>29.8</td><td>4.1</td><td>7.1</td><td></td><td></td><td></td><td></td><td></td><td></td> <td>D 2000</td> </tr> <tr> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td>69.7</td> </tr> <tr> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td>D 2000</td> </tr> <tr> <td></td> <td>7.1</td><td>5.6</td><td>5.9</td><td>5.3</td><td>5.4</td><td>4.6</td><td>4.3</td><td>5.1</td><td>4.6</td><td>2.4</td><td>4.7</td><td>4.6</td><td>4.1</td><td>6</td><td>2.8</td><td>4.3</td><td>7.1</td> <td>69.7</td> </tr> </tbody> </table>																			P	I	N	E	T	O	P	S	7										Series/Size																				Text Length		7.1	5	2.4	5.5	4.2	4.5	5.6	4.6	4.1	29.8	4.1	7.1							D 2000																				69.7																				D 2000		7.1	5.6	5.9	5.3	5.4	4.6	4.3	5.1	4.6	2.4	4.7	4.6	4.1	6	2.8	4.3	7.1	69.7
	P	I	N	E	T	O	P	S	7										Series/Size																																																																																																																					
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FILENAME: Sign Design					NORTH CAROLINA D.O.T. SIGN DETAIL																																																																																																																																			

05/07/18  
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 User: walterjohnson

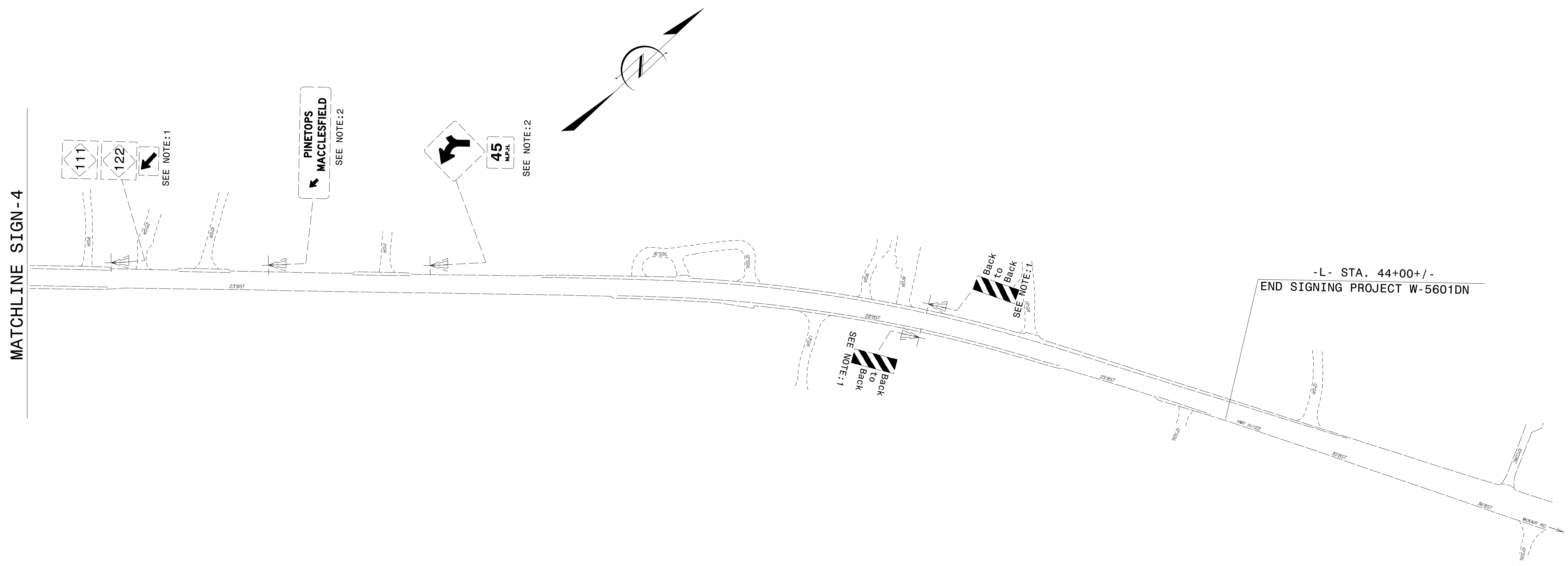
SIGN DESIGN



**PROJECT NOTES**

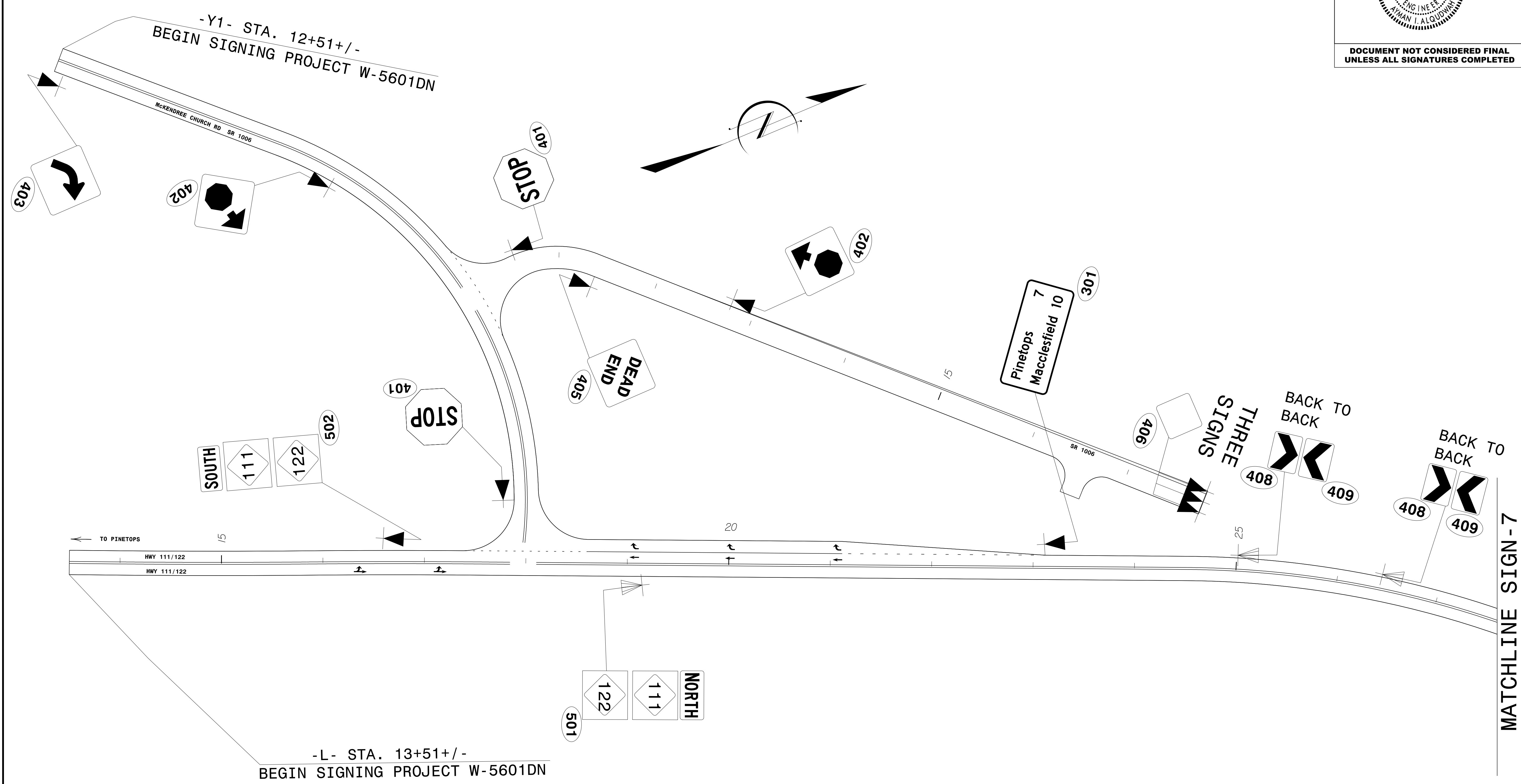
- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 2 DISPOSAL OF SIGN SYSTEM, WOOD

EXISTING SIGNS




- PROJECT NOTES**
- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
  - 2 DISPOSAL OF SIGN SYSTEM, WOOD

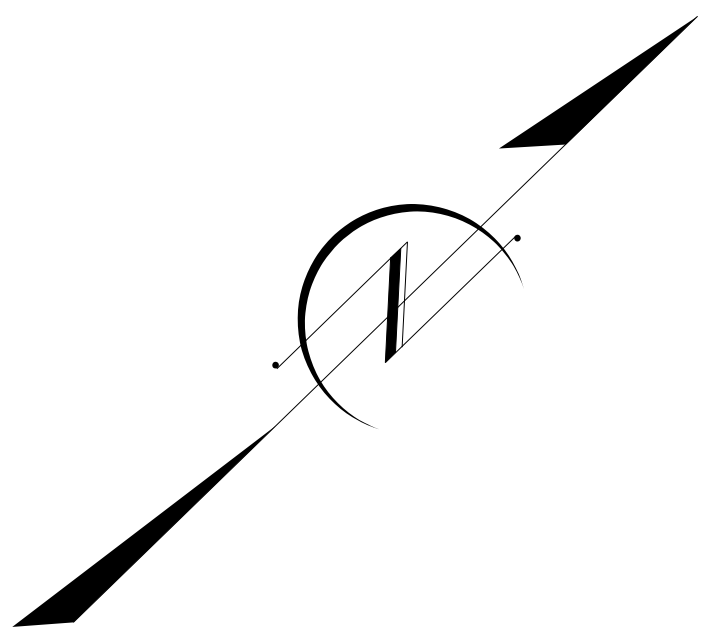
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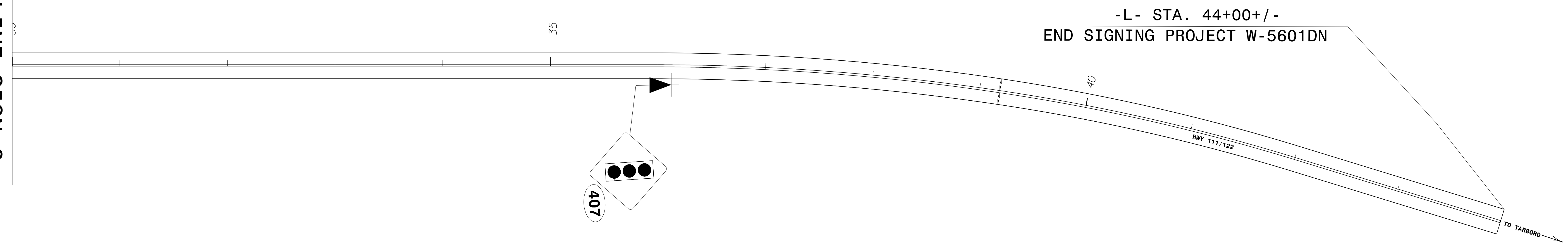
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 User: walterjohnson

PROPOSED SIGNS

TIP NO. W-5601DN	SHEET NO. SIGN-7
Discussed by: APPROVED: <i>Ayman Alqudusah</i> <small>F50ADSCAF985472</small>	
DATE: 5/7/2018	
SEAL 	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



MATCHLINE SIGN-6



05/03/18  
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 User: walterjohnson

PROPOSED SIGNS

09.08/99

TIP PROJECT: W-5601DN

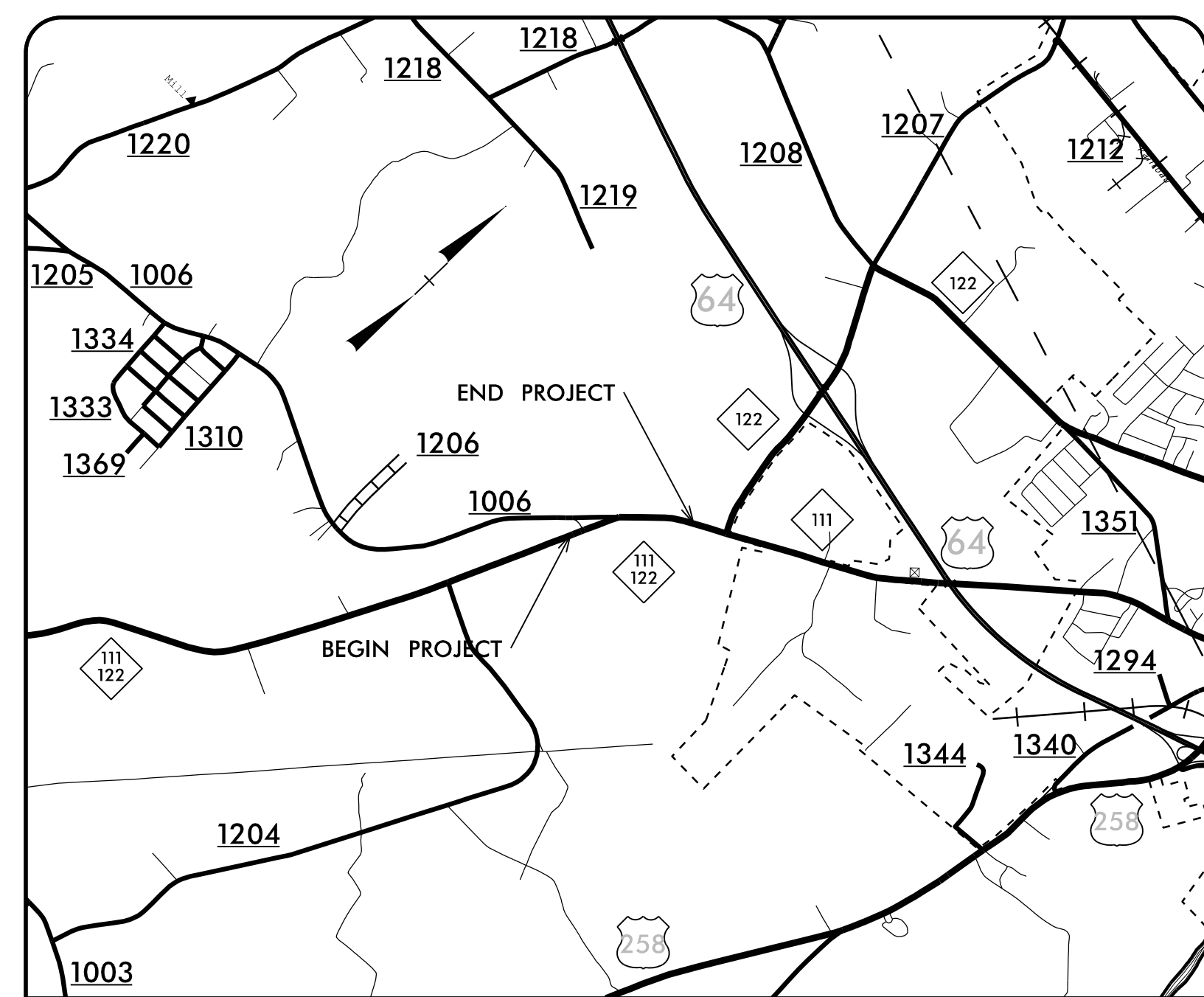
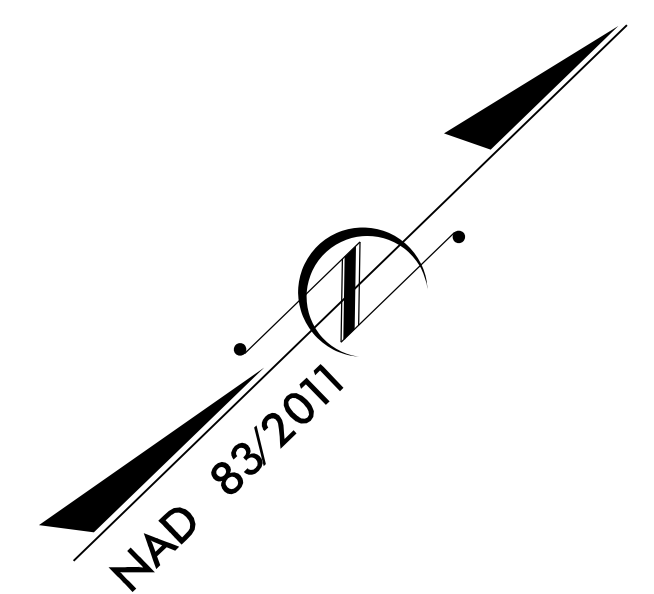
T.I.P. NO.	SHEET NO.
W-5601DN	UC-1

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

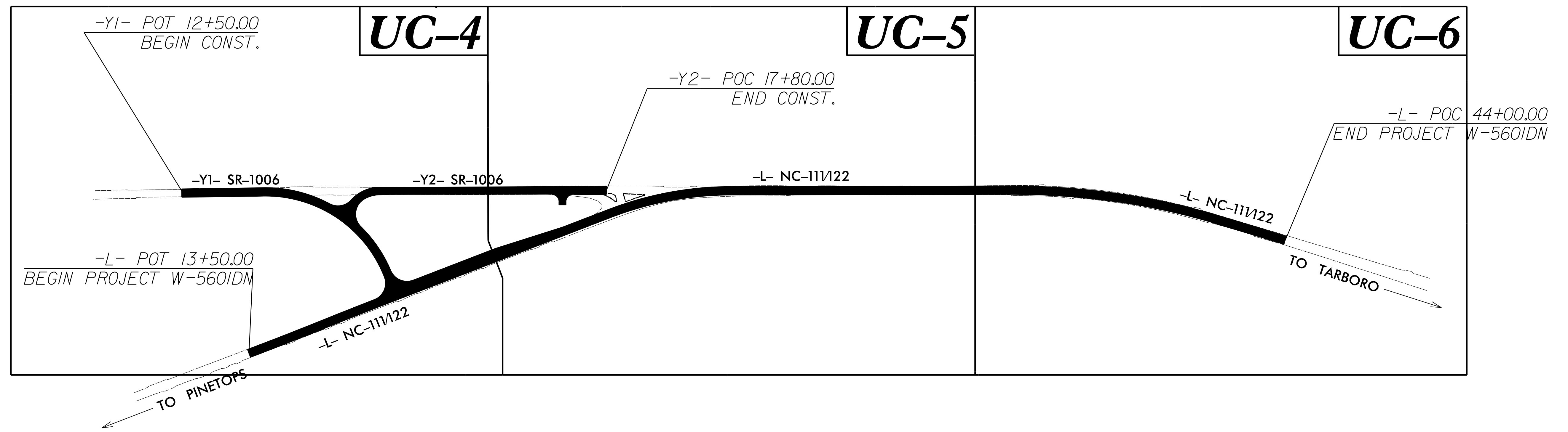
**UTILITY CONSTRUCTION PLANS**  
**EDGEcombe COUNTY**

**LOCATION: NC 111/NC 122 BETWEEN 0.19 MI SOUTH OF SR 1006  
(MCKENDREE CHURCH ROAD) AND 0.36 MI NORTH OF  
SR 1006 (MCKENDREE CHURCH ROAD)**

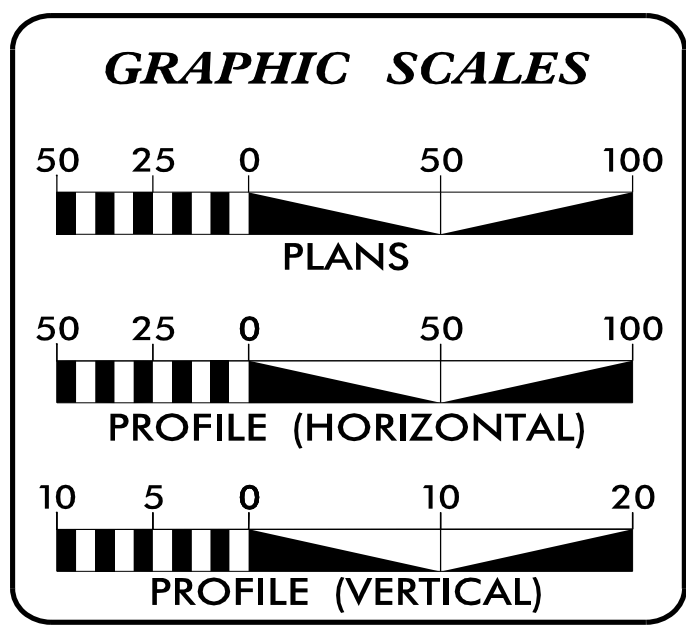
**TYPE OF WORK: WATER RELOCATION**



**VICINITY MAP**



DOCUMENT NOT CONSIDERED FINAL  
UNTIL ALL SIGNATURES ARE COMPLETED



**INDEX OF SHEETS**

SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES
UC-3A AND 3B	DETAILS
UC-4 THRU UC-6	UTILITY CONSTRUCTION SHEETS

**WATER AND SEWER OWNERS ON PROJECT**

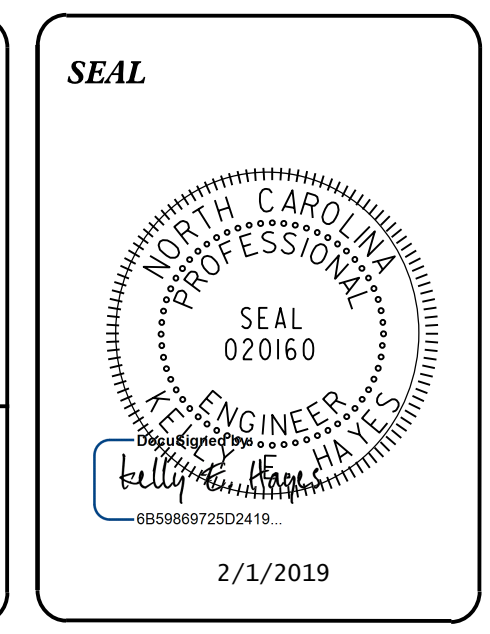
(A) WATER - TOWN OF TARBORO

PREPARED IN THE OFFICE OF

**SEPI**  
ENGINEERING & CONSTRUCTION

1025 Wade Avenue  
Raleigh, NC 27605  
Tel: 919-789-9977  
Fax: 919-789-9591  
License: C-2197

Kelly Hayes, PE, PLS CONSULTANT CONTACT #1  
Ben Crawford, PE CONSULTANT CONTACT #2  
XXXX CONSULTANT CONTACT #3



**DIVISION OF HIGHWAYS UTILITIES UNIT**  
1555 MAIL SERVICES CENTER  
RALEIGH, NC 27699-1555  
PHONE (919) 707-6690  
FAX (919) 250-4151

Kim Morre, PE DIVISION 4 UTILITY ENGINEER  
Corey McLamb, PE DIVISION 4 CONST. ENGINEER  
XXXX UTILITIES AREA COORDINATOR  
XXXX UTILITIES COORDINATOR

1/31/2019  
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USER:thorrtis

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# UTILITIES PLAN SHEET SYMBOLS

## PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	
11 1/4 Degree Bend	
22 1/2 Degree Bend	
45 Degree Bend	
90 Degree Bend	
Plug	
Tee	
Cross	
Reducer	
Gate Valve	
Butterfly Valve	
Tapping Valve	
Line Stop	
Line Stop with Bypass	
Blow Off	
Fire Hydrant	
Relocate Fire Hydrant	
Remove Fire Hydrant	REM FH
Water Meter	
Relocate Water Meter	
Remove Water Meter	REM WM
Water Pump Station	
RPZ Backflow Preventer	
DCV Backflow Preventer	
Relocate RPZ Backflow Preventer	
Relocate DCV Backflow Preventer	

## PROPOSED SEWER SYMBOLS

Gravity Sewer Line (Sized as Shown)	
Force Main Sewer Line (Sized as Shown)	
Manhole (Sized per Note)	
Sewer Pump Station	

## PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Telephone Pedestal	
Utility Line by Others (Type as Shown)	
Trenchless Installation	
Encasement by Open Cut	
Encasement	

Thrust Block	
Air Release Valve	
Utility Vault	
Concrete Pier	
Steel Pier	
Plan Note	
Pay Item Note	

NOTE  
PAY ITEM

## EXISTING UTILITIES SYMBOLS

Power Pole		*Underground Power Line	
Telephone Pole		*Underground Telephone Cable	
Joint Use Pole		*Underground Telephone Conduit	
Utility Pole		*Underground Fiber Optics Telephone Cable	
Utility Pole with Base		*Underground TV Cable	
H-Frame Pole		*Underground Fiber Optics TV Cable	
Power Transmission Line Tower		*Underground Gas Pipeline	
Water Manhole		Aboveground Gas Pipeline	
Power Manhole		*Underground Water Line	
Telephone Manhole		Aboveground Water Line	
Sanitary Sewer Manhole		*Underground Gravity Sanitary Sewer Line	
Hand Hole for Cable		Aboveground Gravity Sanitary Sewer Line	
Power Transformer		*Underground SS Forced Main Line	
Telephone Pedestal		Underground Unknown Utility Line	
CATV Pedestal		SUE Test Hole	
Gas Valve		Water Meter	
Gas Meter		Water Valve	
Located Miscellaneous Utility Object		Fire Hydrant	
Abandoned According to Utility Records	AATUR	Sanitary Sewer Cleanout	
End of Information	E.O.I.		

\*For Existing Utilities  
Utility Line Drawn from Record (Type as Shown)  
Designated Utility Line (Type as Shown)

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2/1/2019  
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UTS

PROJECT REFERENCE NO.	SHEET NO.
W-5601DN	UC-3
DESIGNED BY: KEH	
DRAWN BY: TAH	
CHECKED BY: KEH	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

# UTILITY CONSTRUCTION

## GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2018.
2. THE EXISTING UTILITIES BELONG TO THE TOWN OF TARBORO.
3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, PUBLIC WATER SUPPLY SECTION.  
  
ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT QUALITY, DIVISION OF WATER RESOURCES, WATER QUALITY SECTION. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.
4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.
5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DEPARTMENT.
7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.
8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.
9. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

## PROJECT SPECIFIC NOTES:

1. PROPOSED WATER LINE FROM -L- LINE STATION 34+25 TO -L- LINE STATION 35+50 AND STATION 35+65 TO -L- LINE STATION 42+10 SHALL BE PVC C900.
2. SPECIFICATION SECTION 1505-3(E) COVERS THRUST RESTRAINT WITH THE CONDITION THAT TOWN OF TARBORO WILL ONLY ALLOW THREADED ROD / MEGA LUG RESTRAINT METHOD. FOR LOCATION WHERE JOINT RESTRAINT IS IMPRACTICAL, CONCRETE THRUST BLOCKING WILL BE USED.
3. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS CONTRACTOR'S RESPONSIBILITY TO HAVE BORE DESIGNED AND SEALED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE IS ALLOWED TO RIVER, WETLANDS, OR BUFFER ZONES.
4. RELATION OF WATER MAINS TO SEWERS LAY WATER MAINS AT LEAST 10 FEET Laterally FROM EXISTING OR PROPOSED SEWERS OR STORM DRAINS. IF LOCAL CONDITIONS OR BARRIERS PREVENT A 10 FOOT SEPARATION, LAY THE WATER MAIN WITH AT LEAST 18 INCHES VERTICAL SEPARATION ABOVE THE TOP OF THE SEWER OR STORM DRAIN PIPE EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON A BENCH OF UNDISTURBED EARTH.  
  
WHEN A PROPOSED WATER MAIN CROSSES OVER A PROPOSED OR EXISTING SEWER OR STORM DRAIN PIPE, LAY THE WATER MAIN WITH AT LEAST 18 INCHES VERTICAL SEPARATION ABOVE THE TOP OF THE SEWER OR STORM DRAIN PIPE. IF LOCAL CONDITIONS OR BARRIERS PREVENT AN 18 INCH VERTICAL SEPARATION, CONSTRUCT BOTH THE WATER MAIN AND THE SEWER FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT CROSSING WITH FERROUS PIPE HAVING WATER MAIN QUALITY JOINTS.  
  
WHEN A PROPOSED WATER MAIN CROSSES UNDER A PROPOSED OR EXISTING SEWER, CONSTRUCT BOTH THE WATER MAIN AND THE SEWER OF FERROUS MATERIALS WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. CENTER THE SECTION OF WATER PIPE AT THE POINT OF CROSSING.

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

5. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS, SPECIFICATIONS AND STANDRAD DETAILS/DRAWINGS OF THE UTILITY OWNERS.
6. THE CONTRACTOR SHALL COORDINATE ISOLATION OF THE EXISTING WATER MAIN FOR TIE-INS WITH UTILITY OWNER. CALL RAD ROUNTREE AT 252-641-4214. IF TEMPORARY SHUT DOWN OF UTILITY IS REQUIRED THE CONTRACTOR WILL COORDINATE THIS SHUT DOWN WITH UTILITY OWNERS IN A MANNER THAT IS MOST CONVENIENT FOR CUSTOMERS AND UTILITY OWNER.


## LIST OF STANDARD DRAWINGS

1515.01 WATER METER



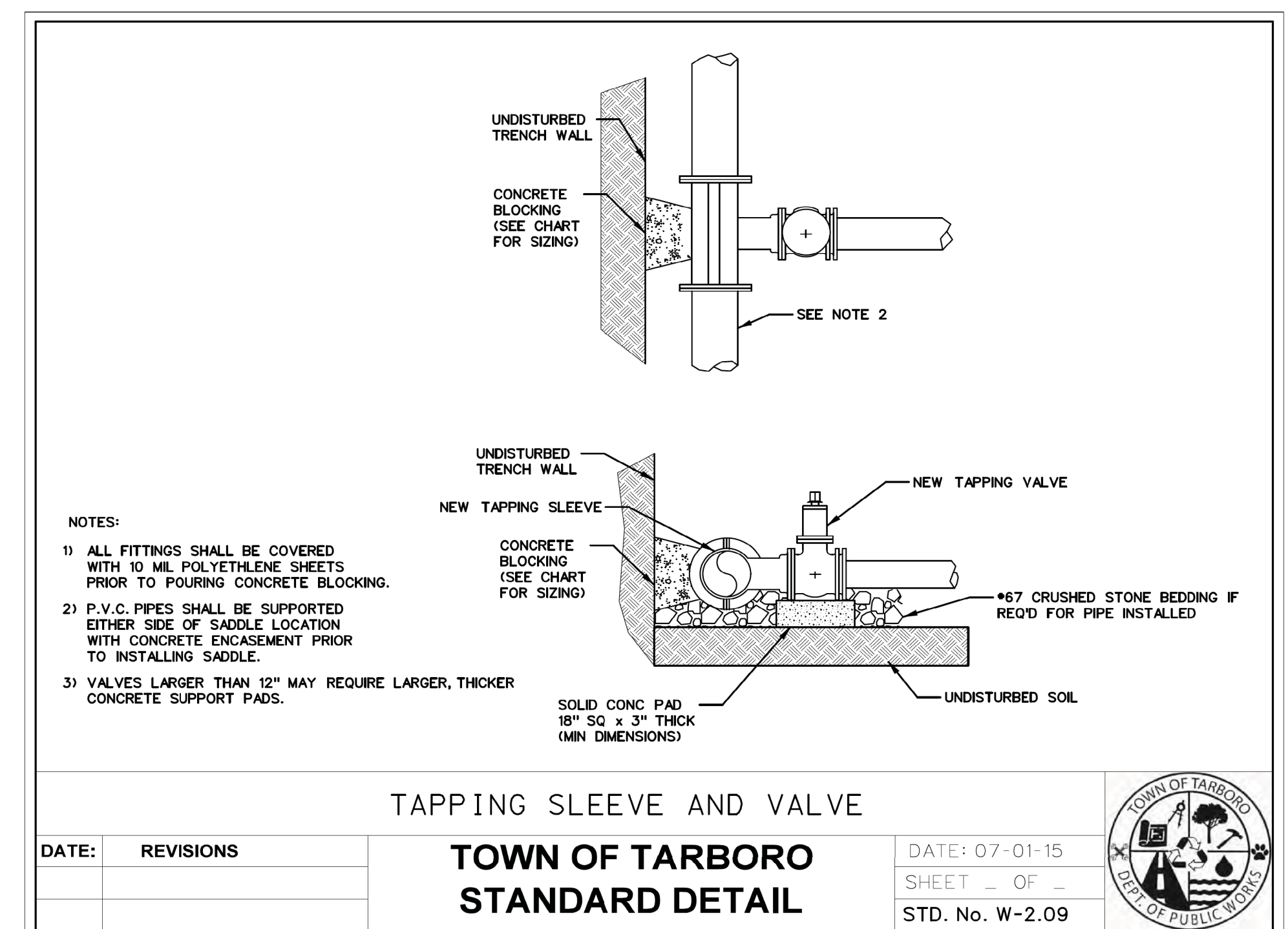
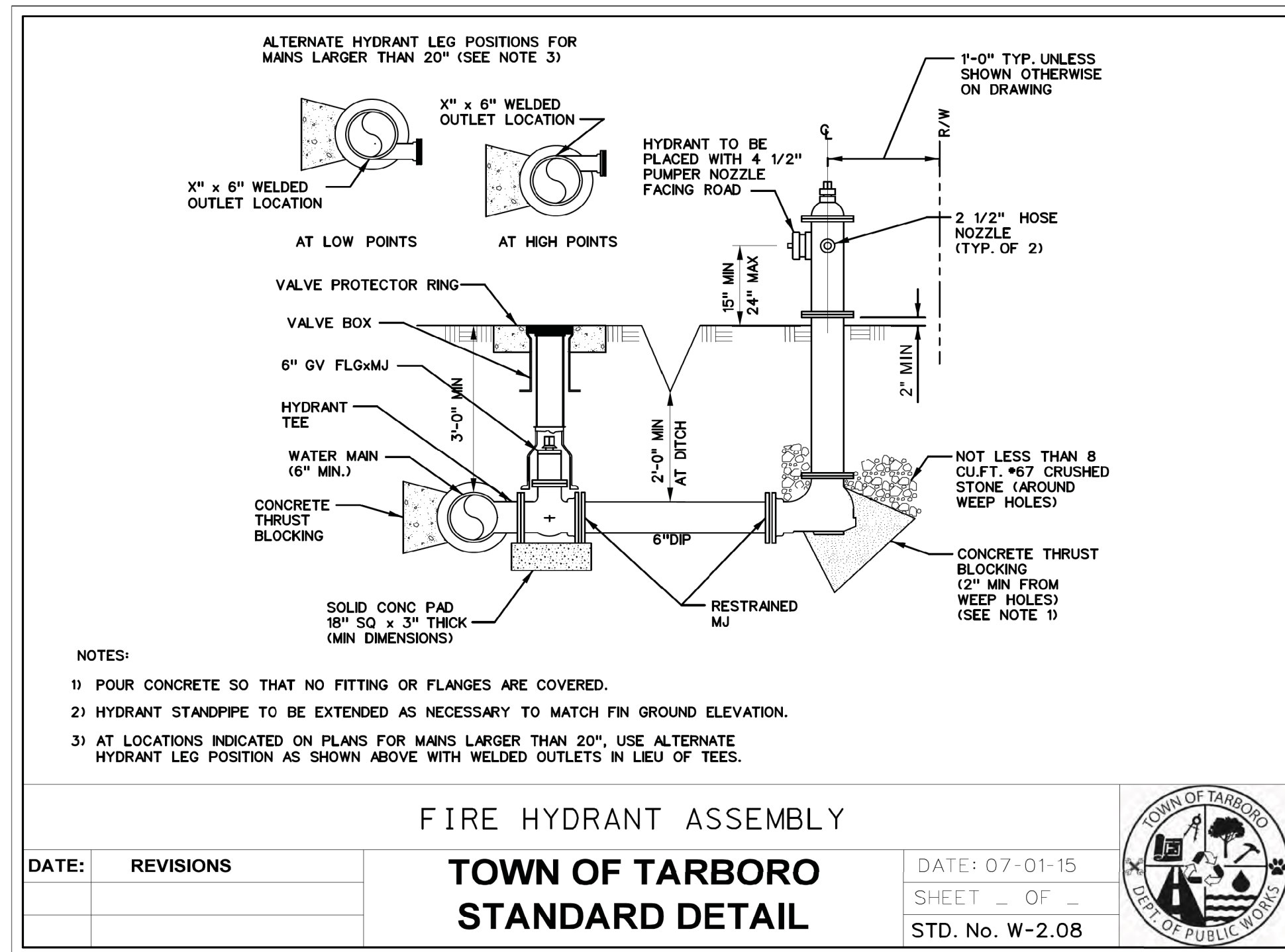
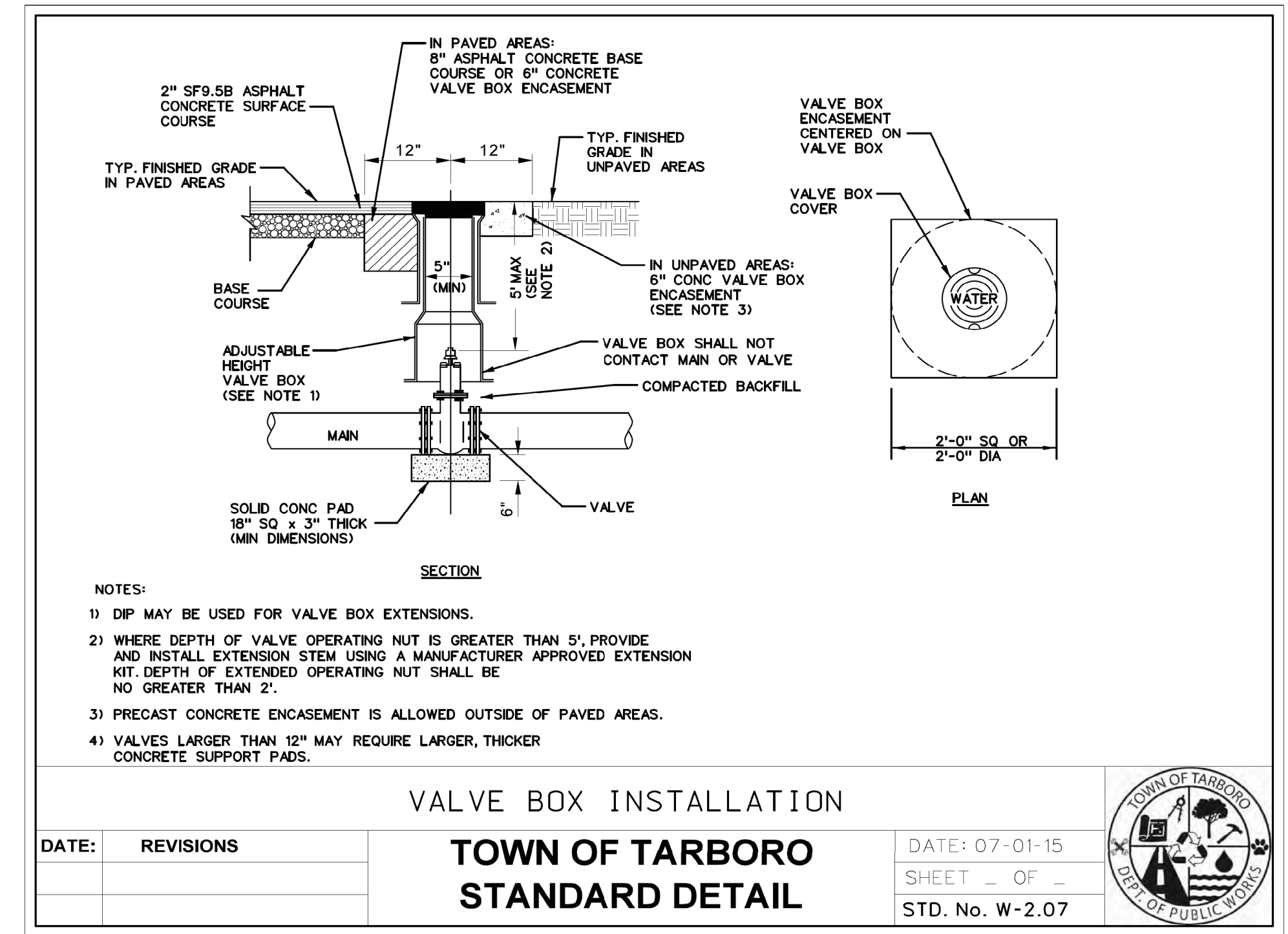
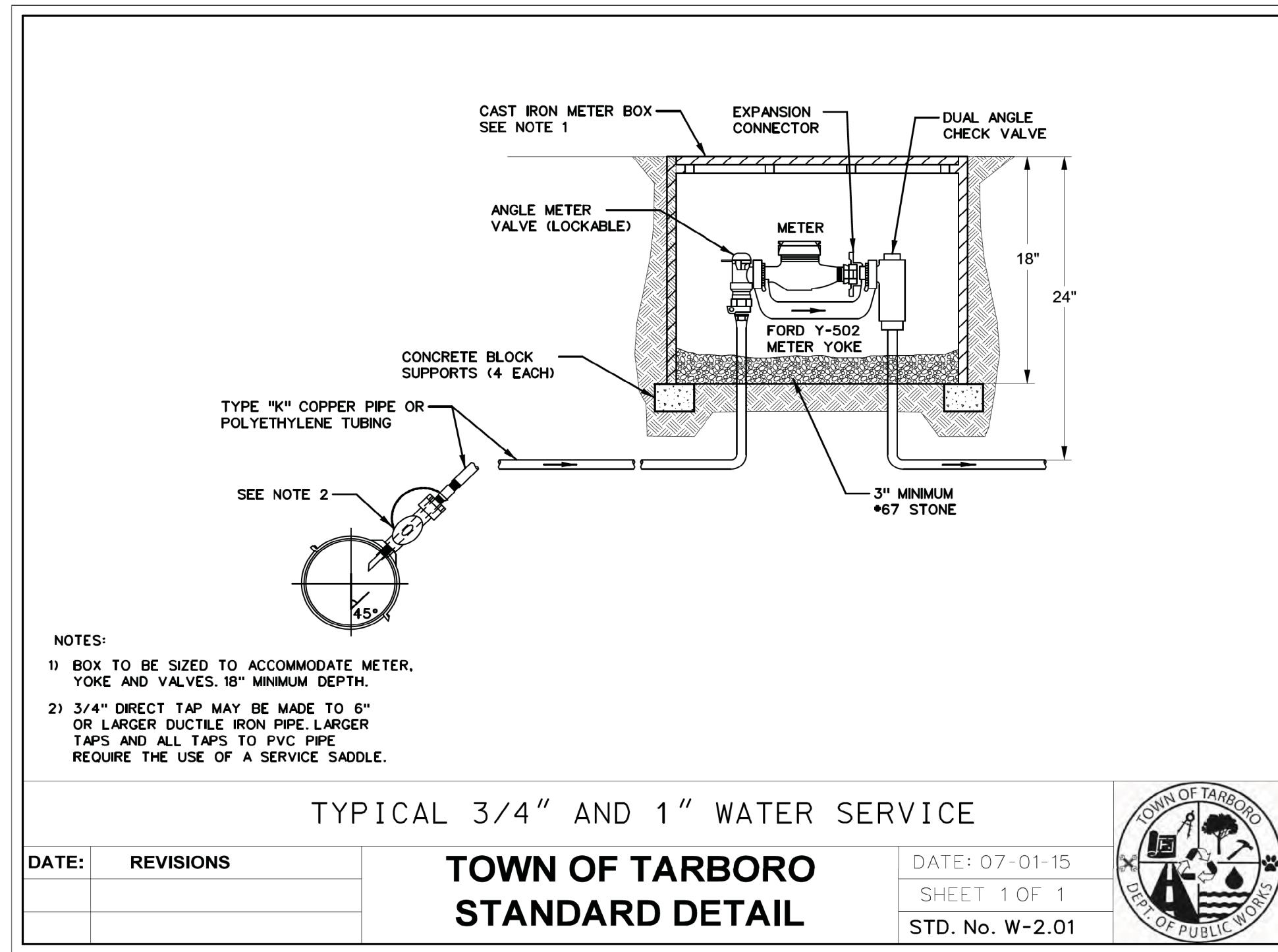
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# PROJECT TYPICAL DETAILS

PROJECT REFERENCE NO.	SHEET NO.
W-5601DN	UC-3A
DESIGNED BY: KEH	
DRAWN BY: TAH	
CHECKED BY: KEH	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY 2/1/2019	

## UTILITY CONSTRUCTION

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# PROJECT TYPICAL DETAILS

PROJECT REFERENCE NO.	SHEET NO.
W-5601DN	UC-3B
DESIGNED BY: KEH	
DRAWN BY: TAH	
CHECKED BY: KEH	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
2/1/2019	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY

## UTILITY CONSTRUCTION

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NOTE:  
1) VALVES LARGER THAN 12" MAY REQUIRE LARGER, THICKER CONCRETE SUPPORT PADS.

STANDARD TEMPORARY CAPPING

DATE:	REVISIONS	<p><b>TOWN OF TARBORO</b> STANDARD DETAIL</p>	DATE: 07-01-15
			SHEET _ OF _
			STD. No. W-2.11

ROD REQUIREMENTS

BRANCH SIZE	NO. OF RODS
4"	2
6"	2
8"	4
12"	4
16"	6
24"	6

NOTES:  
1) ONCE INSTALLED AND TIGHT, THE STEEL RODS AND BOLTS SHALL BE COATED WITH 2 COATS OF BITUMINOUS BASE PAINT.  
2) SEE STANDARD THRUST BLOCK DETAIL.  
3) CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL FITTINGS.

STANDARD VALVE RODDING

DATE:	REVISIONS	<p><b>TOWN OF TARBORO</b> STANDARD DETAIL</p>	DATE: 07-01-15
			SHEET _ OF _
			STD. No. W-2.12

NOTES:  
1) ALL FACES OF THE BLOCK SHALL REST AGAINST UNDISTURBED SOIL.  
2) PIPE JOINTS, BOLTS, NUTS, RETAINER GLANDS ARE NOT TO BE ENCASED IN CONCRETE.  
3) DIMENSIONS ARE BASED ON 150 PSI TEST PRESSURE 1,000 PSF BEARING CAPACITY. INCREASE SIZE BASED ON SOIL CONDITIONS.

FITTING	DIMENSION "A"			
	4"	6"	8"	12"
11 1/4" BEND	1'-6"	1'-6"	1'-6"	2'-0"
22 1/2" BEND	1'-6"	1'-6"	2'-0"	2'-8"
45" BEND	1'-6"	2'-0"	2'-6"	3'-8"
90" BEND	1'-8"	2'-6"	3'-4"	5'-0"
TEE	1'-8"	2'-6"	3'-4"	5'-0"

THRUST BLOCK FOR HORIZONTAL PIPE BENDS

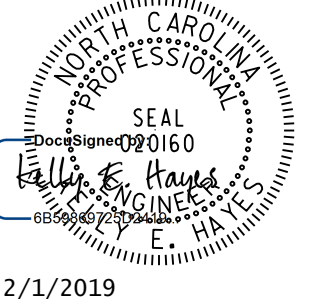
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			SHEET _ OF _
			STD. No. W-2.13

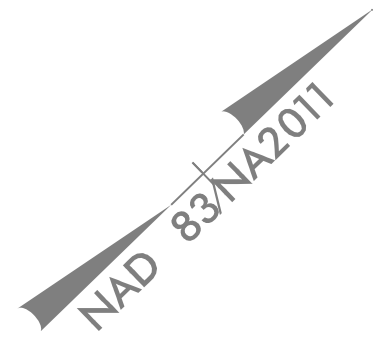
NOTES:  
1) STONE BEDDING IS NOT REQUIRED IN SUITABLE CLASS I, CLASS II, AND CLASS III, SOILS. PROVIDE STONE BEDDING IN UNSTABLE CLASS IV OR CLASS V SOILS, RUNNING WATER OR OTHER UNSTABLE SOIL CONDITIONS IN BEDDING AND HAUNCH ZONE. BACKFILL WITH CLASS I, II, OR III MATERIAL IN INITIAL BACKFILL.  
2) CLASS I FOUNDATION STONE SHALL BE REQUIRED WHEN SOIL CONDITIONS ARE UNSTABLE. UNDERCUT DEPTH AS DIRECTED BY TOWN.  
3) TRENCH WIDTH IS MINIMUM OF THE PIPE O.D. PLUS 18" AND MAXIMUM OF PIPE O.D. PLUS 24".  
4) INITIAL BACKFILL SHALL BE PLACED AND COMPACTED IN 6" LIFTS. INITIAL BACKFILL SHALL CONTAIN NO MATERIAL OVER 1 1/2" IN DIAMETER, FROZEN LUMPS, OR DEBRIS.  
5) BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH SPECIFICATIONS.

WATER LINE BEDDING

DATE:	REVISIONS	<p><b>TOWN OF TARBORO</b> STANDARD DETAIL</p>	DATE: 07-01-15
			SHEET 1 OF 1
			STD. No. W-2.14

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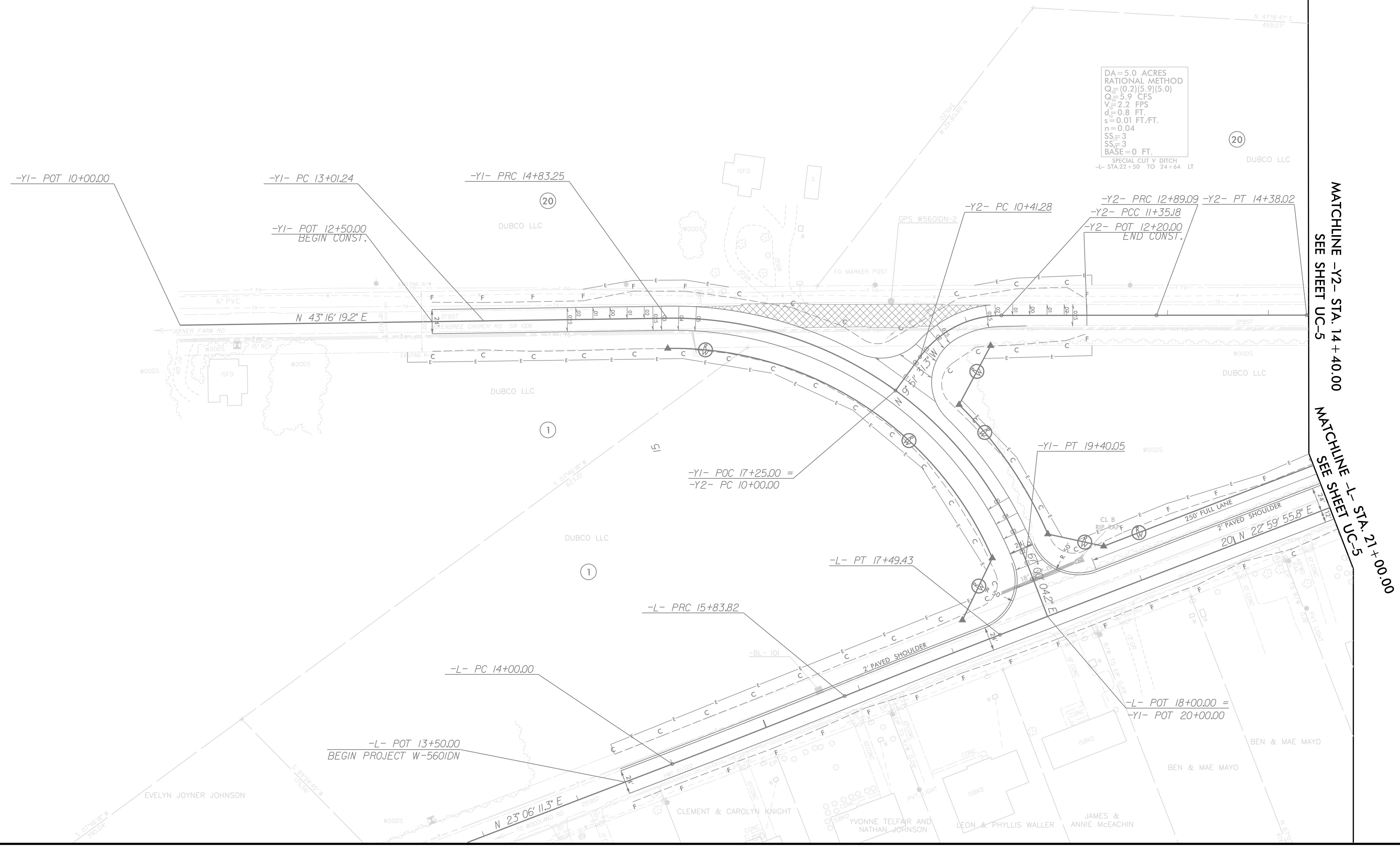
PROJECT REFERENCE NO.	SHEET NO.
W-5601DN	UC-4
DESIGNED BY: KEH	
DRAWN BY: TAH	
CHECKED BY: KEH	
APPROVED BY:	
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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
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UTILITY CONSTRUCTION

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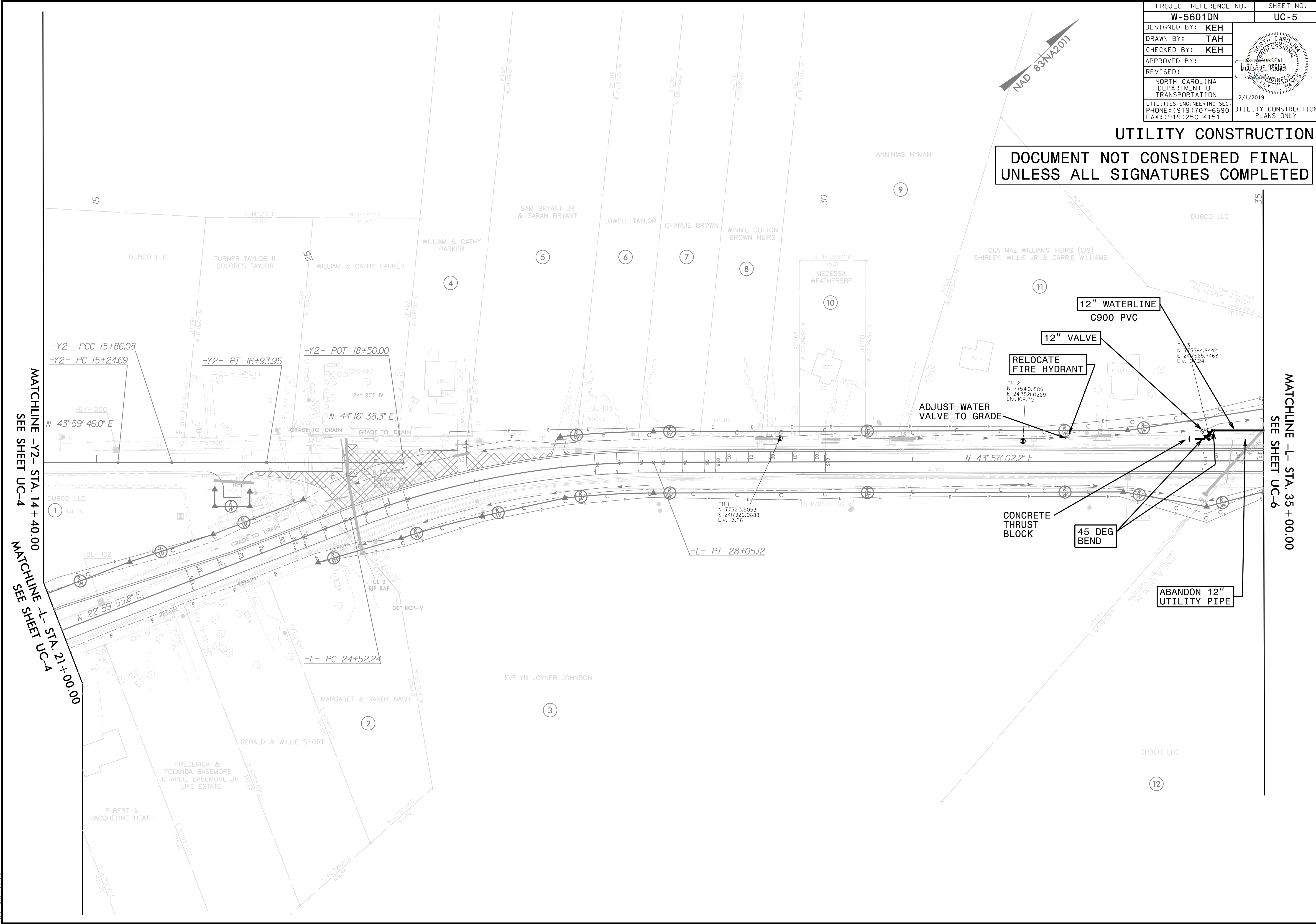
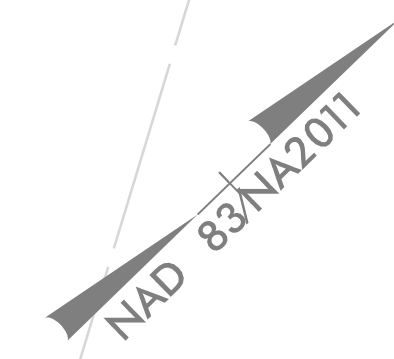
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 $d = 0.8$  FT  
 $s = 0.01$  FT./FT.  
 $n = 0.04$   
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 $SS_2 = 3$   
 BASE=0 FT.  
 SPECIAL CUT V DITCH  
 -L- STA.22+50 TO 24+64 LT



PROJECT REFERENCE NO.	SHEET NO.
W-5601DN	UC-5
DESIGNED BY: KEH	
DRAWN BY: TAH	
CHECKED BY: KEH	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
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MATCHLINE -L- STA. 21+00.00  
SEE SHEET UC-4

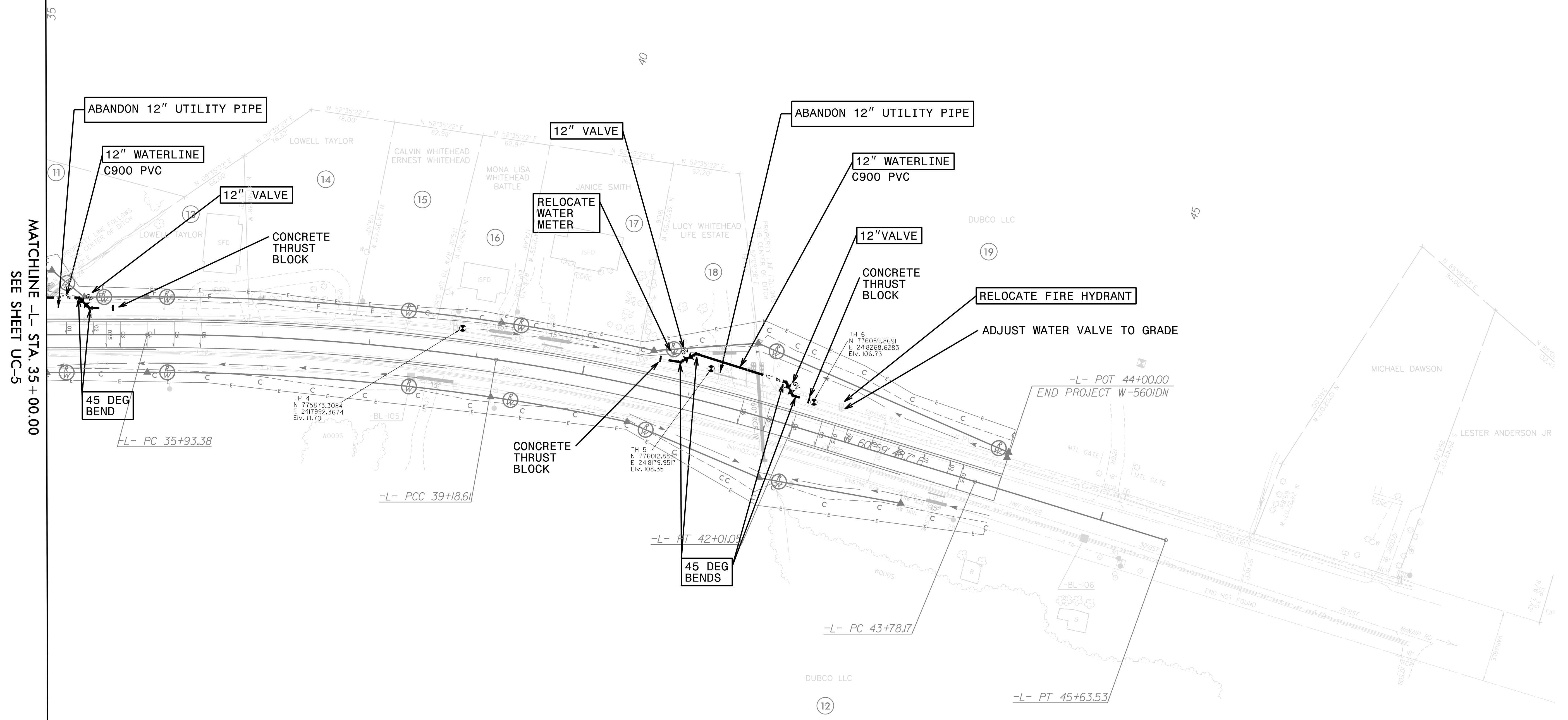
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SEE SHEET UC-6

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W-5601DN	UC-6
DESIGNED BY: KEH	
DRAWN BY: TAH	
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UTILITY CONSTRUCTION PLANS ONLY	



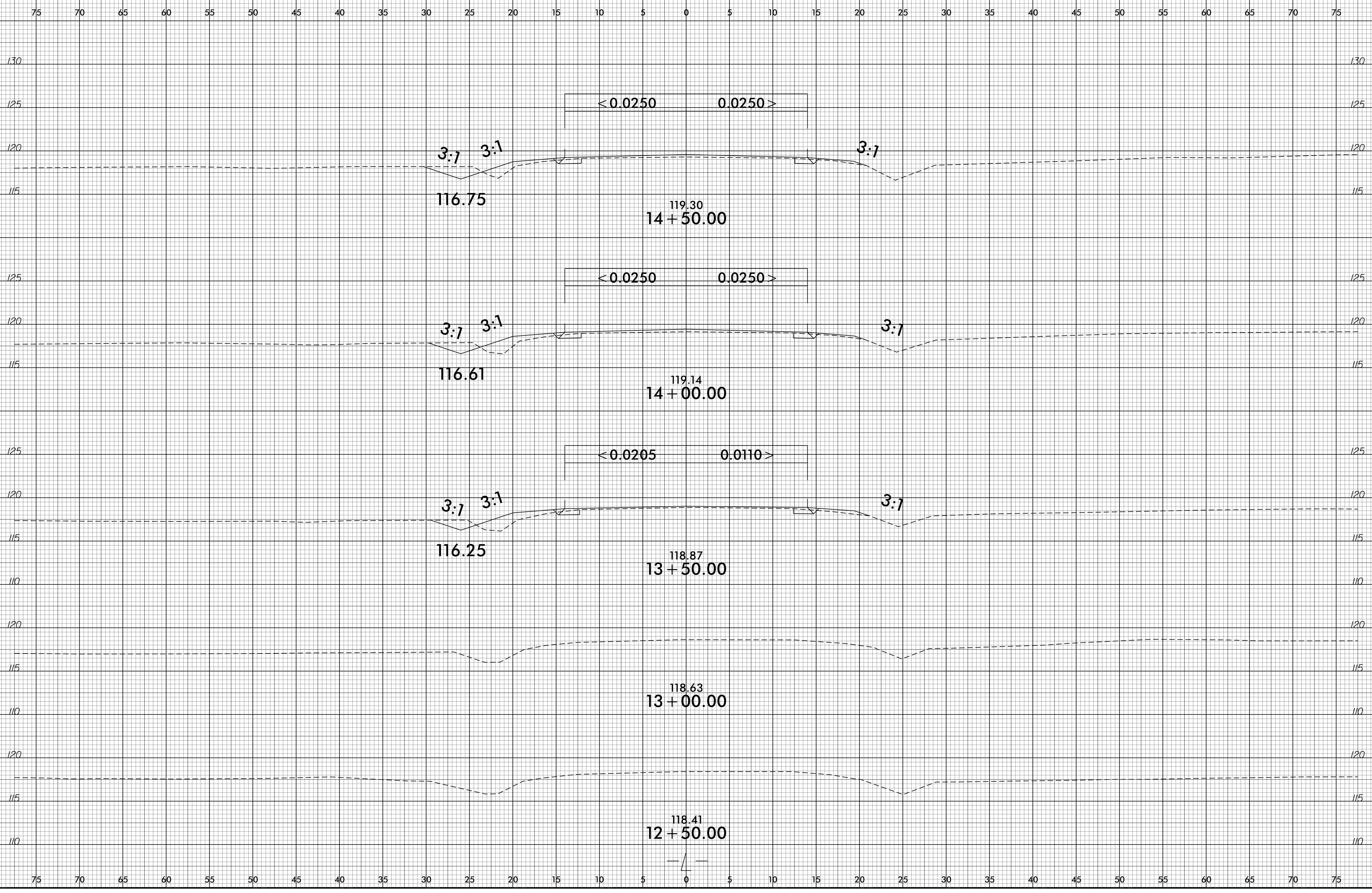
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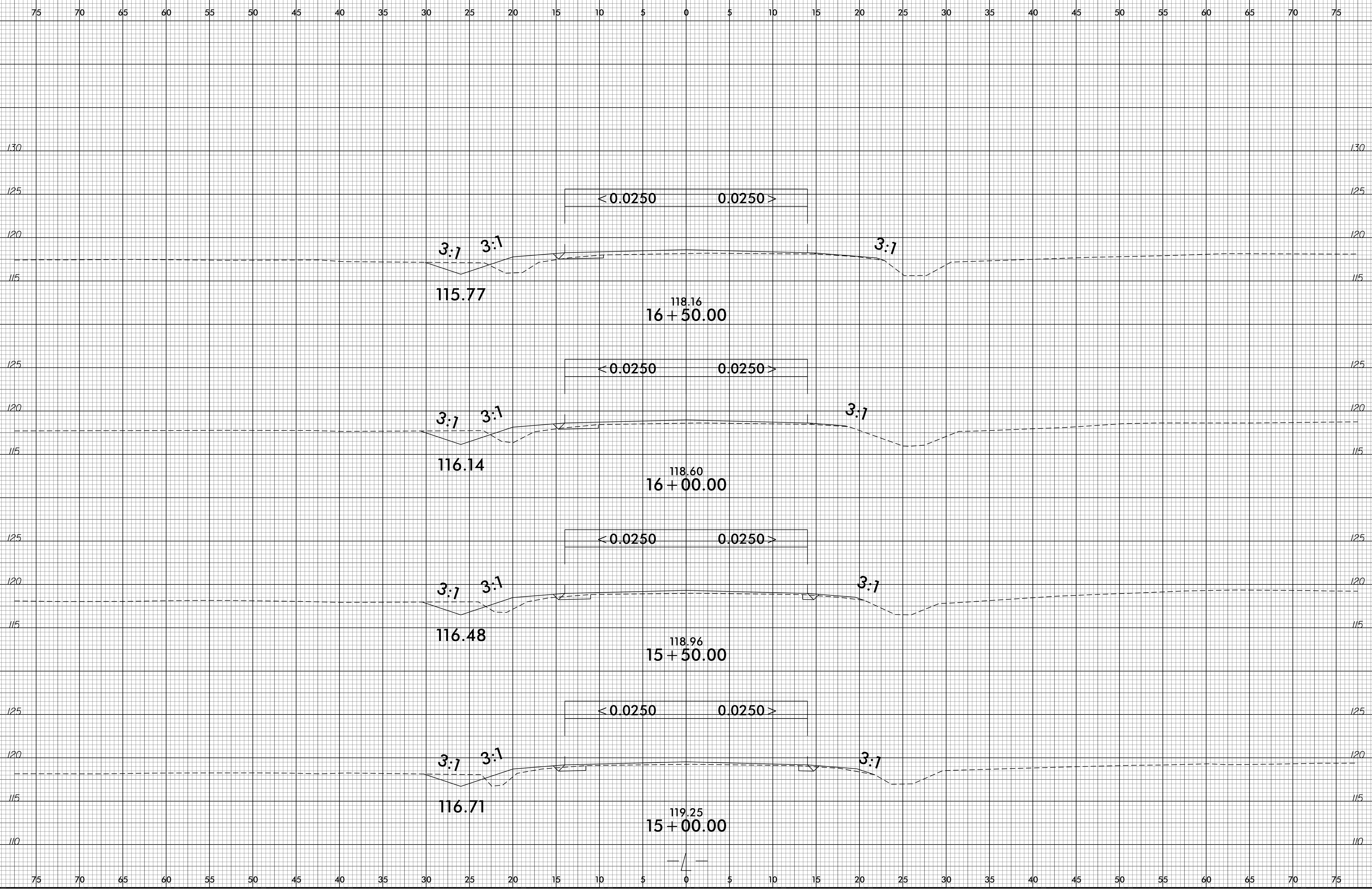
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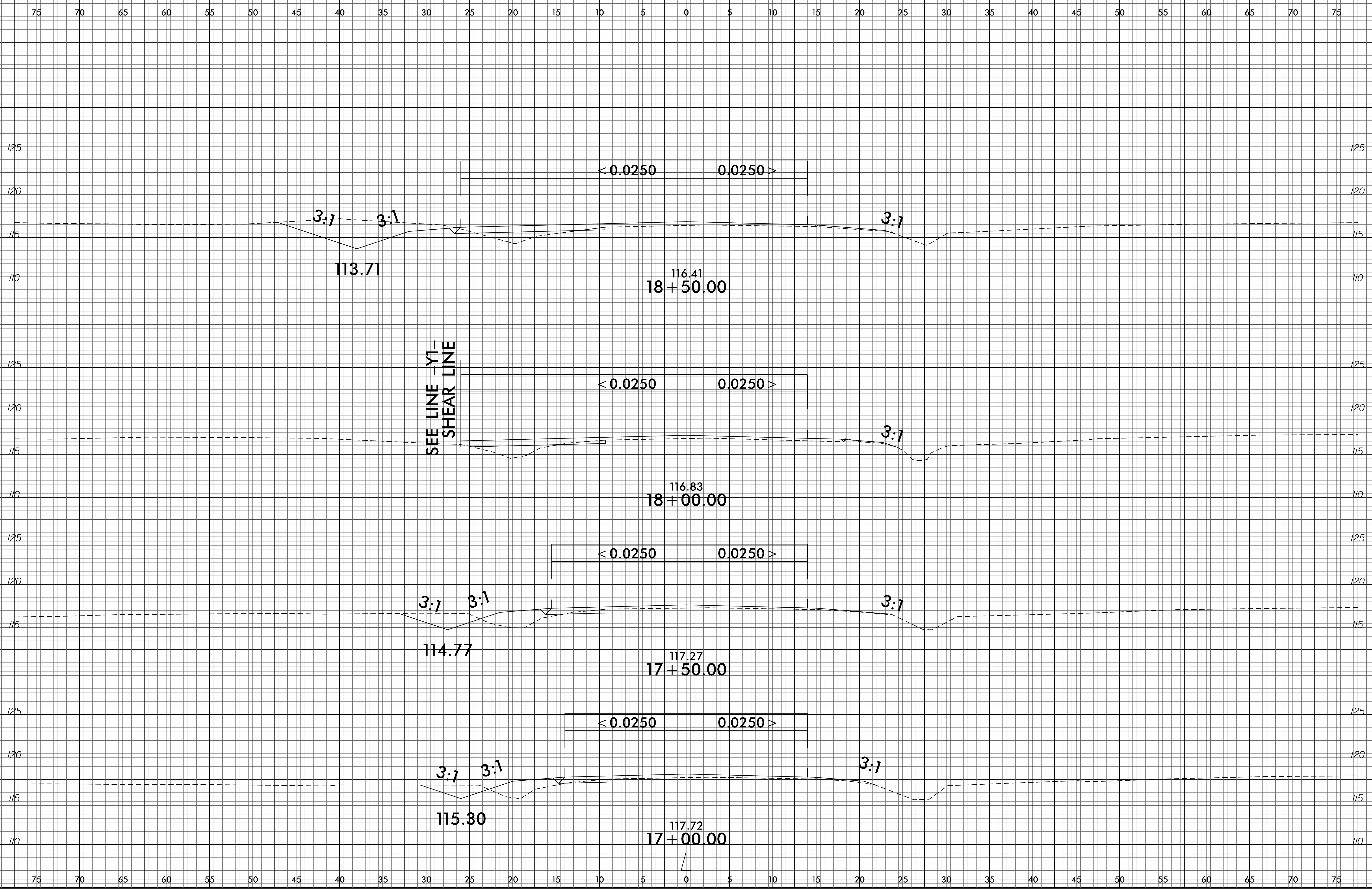
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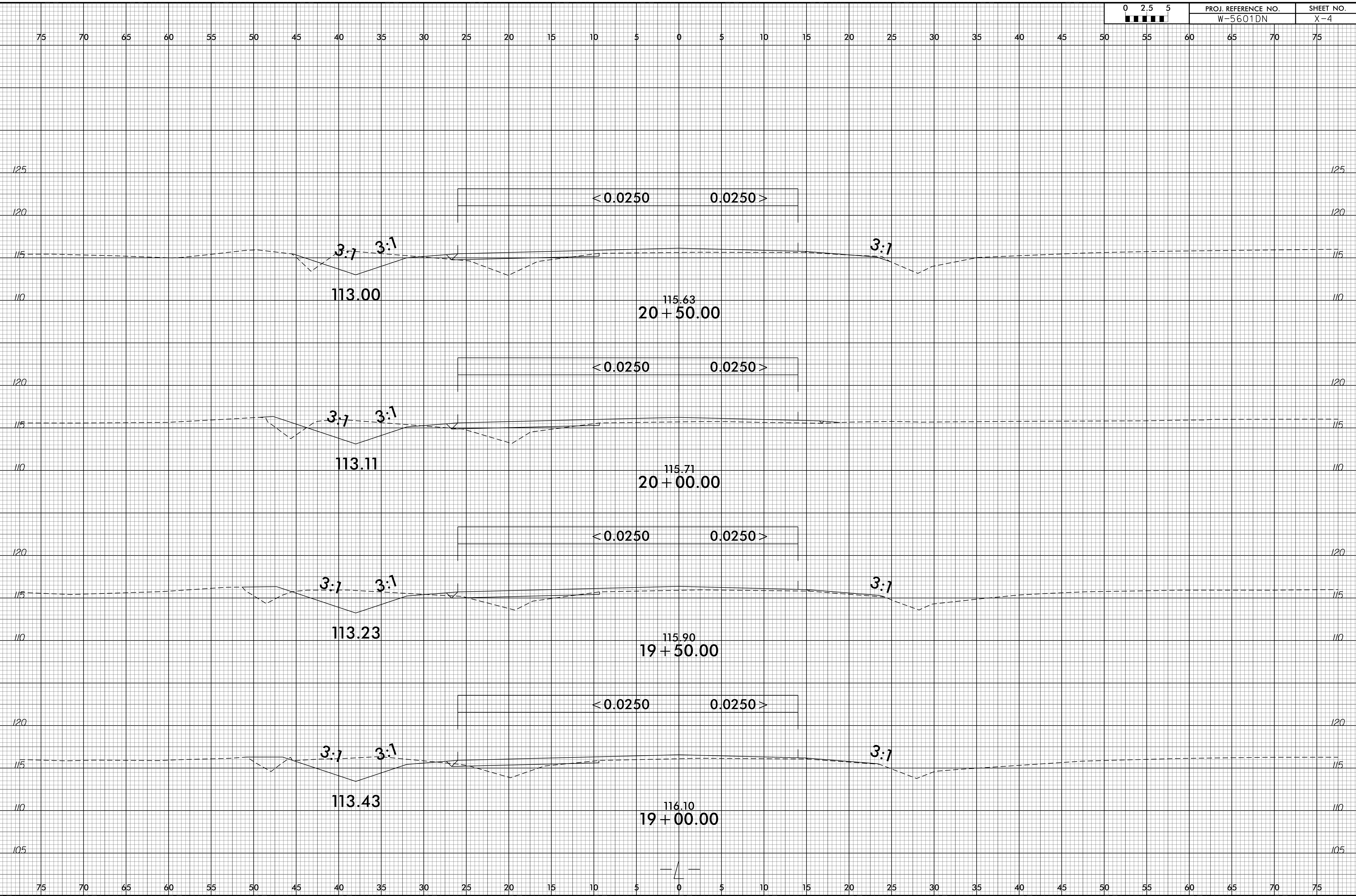


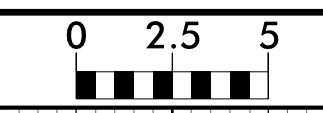




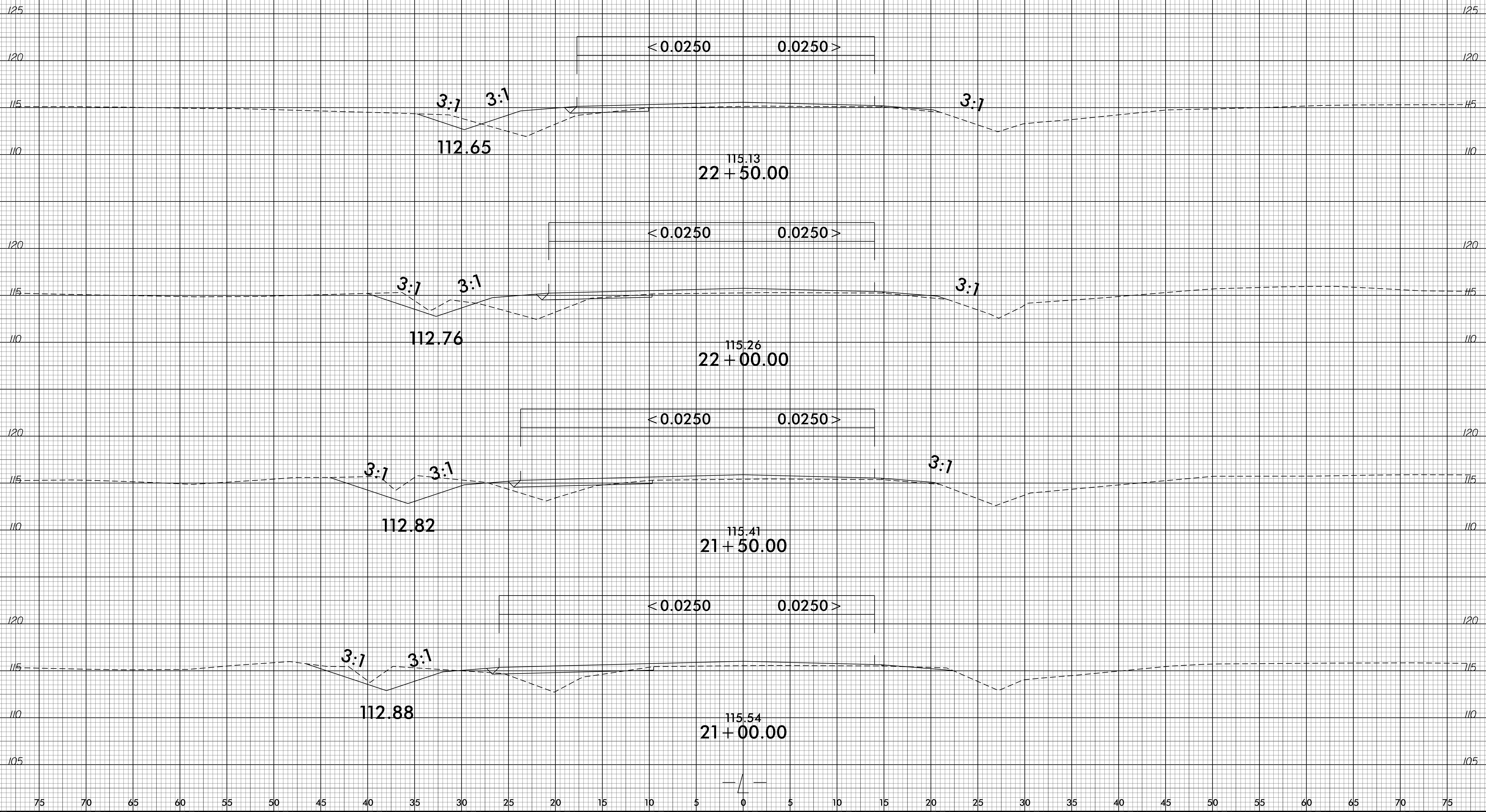




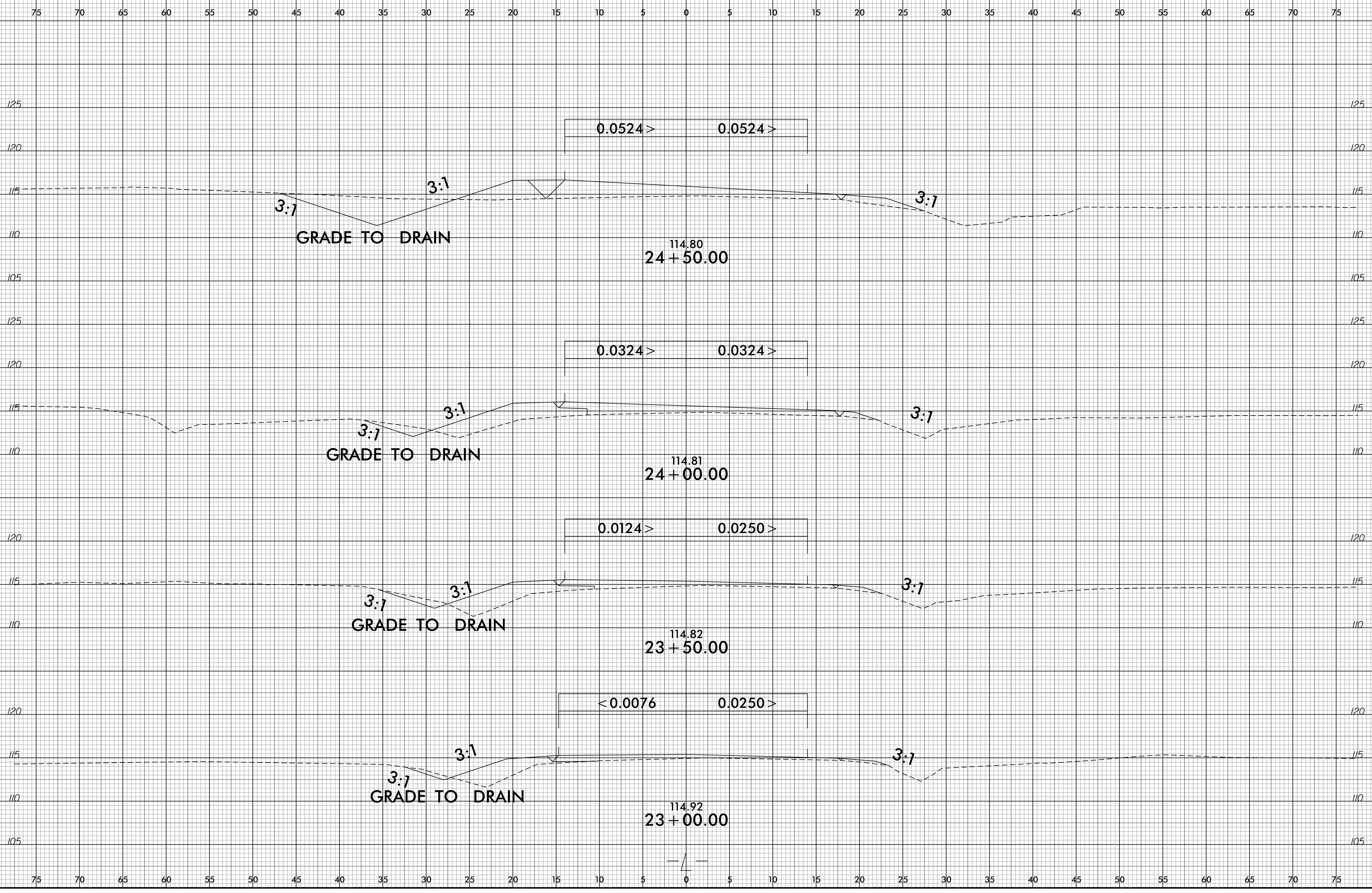


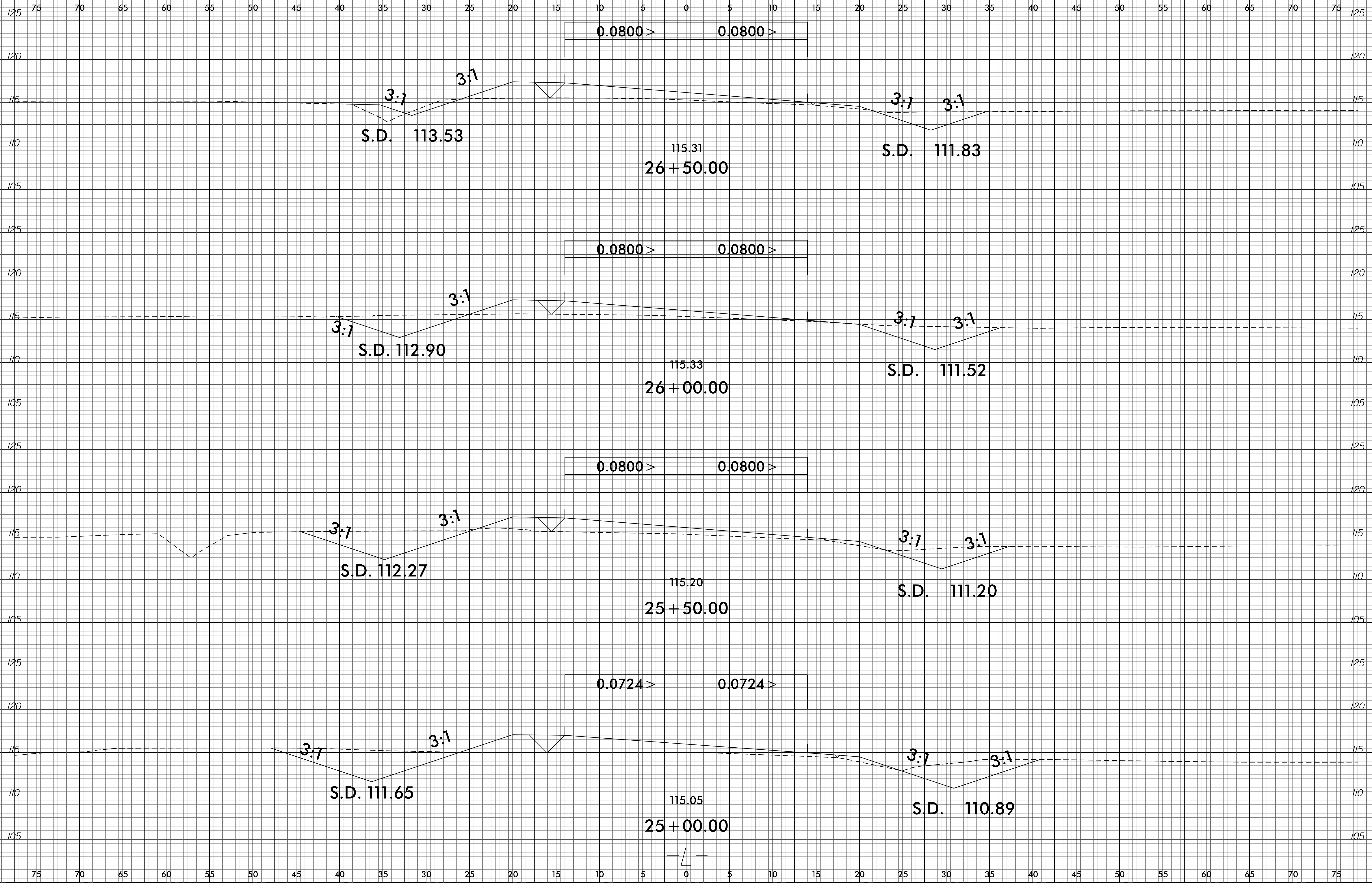


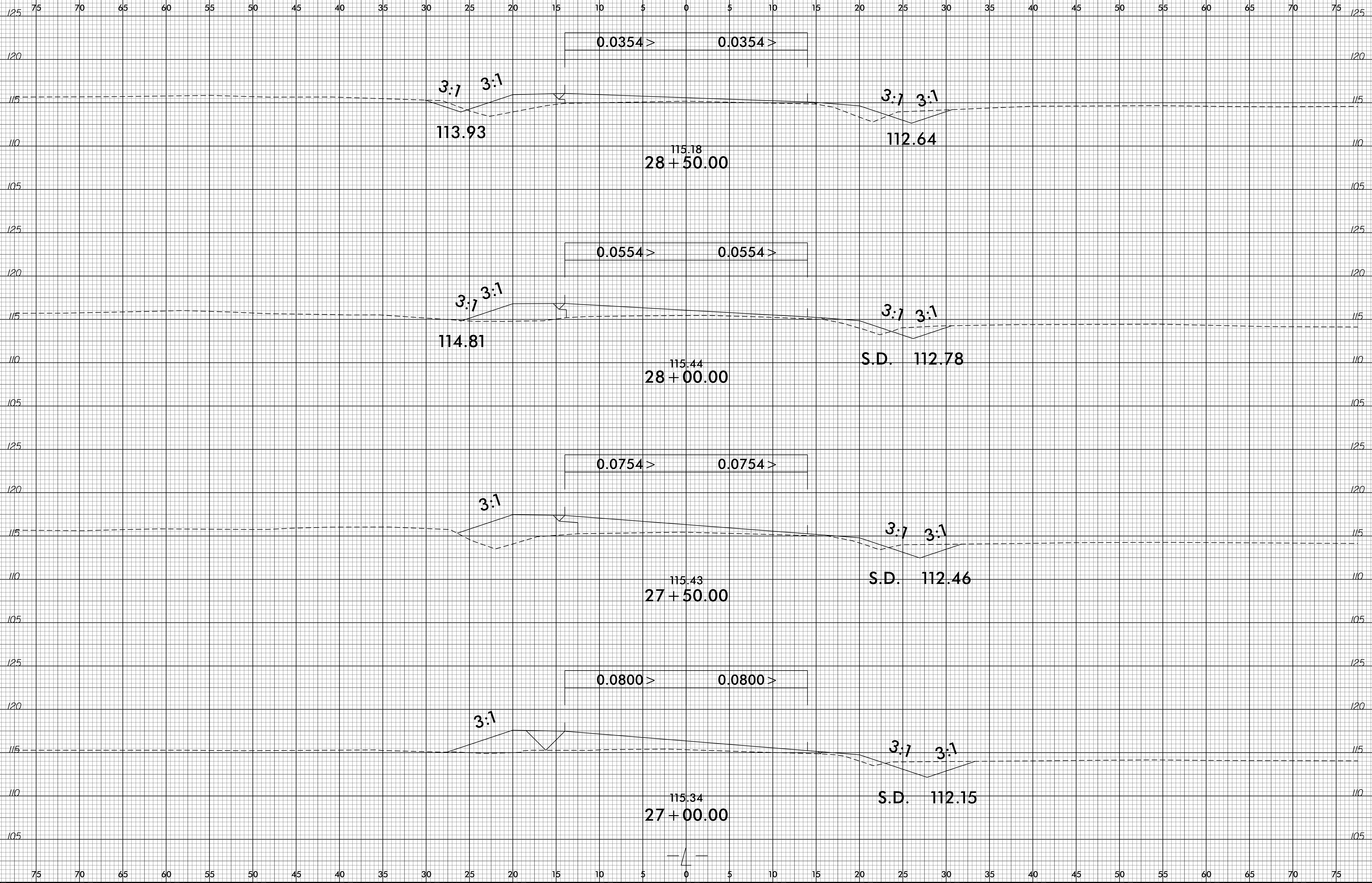
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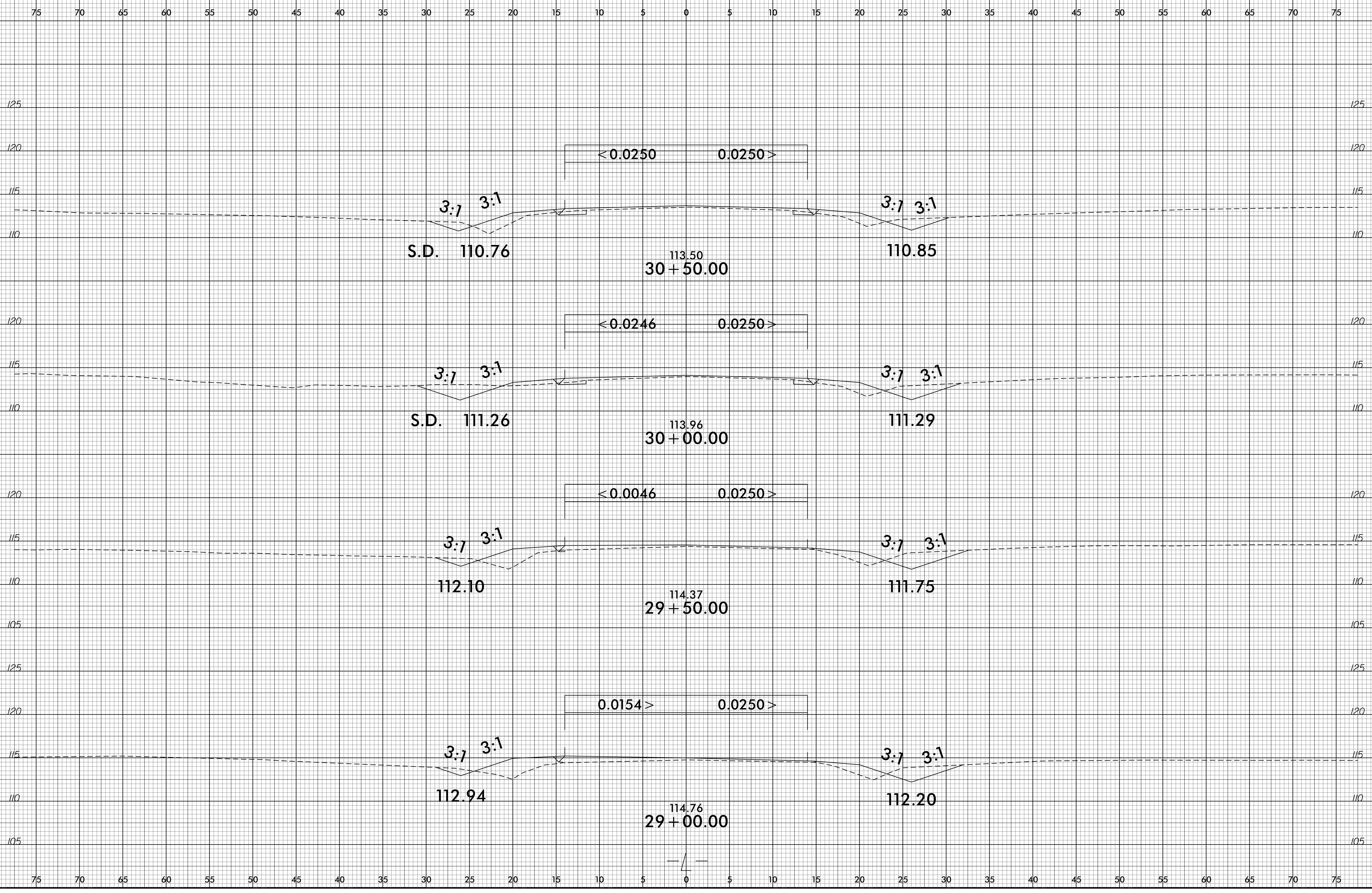


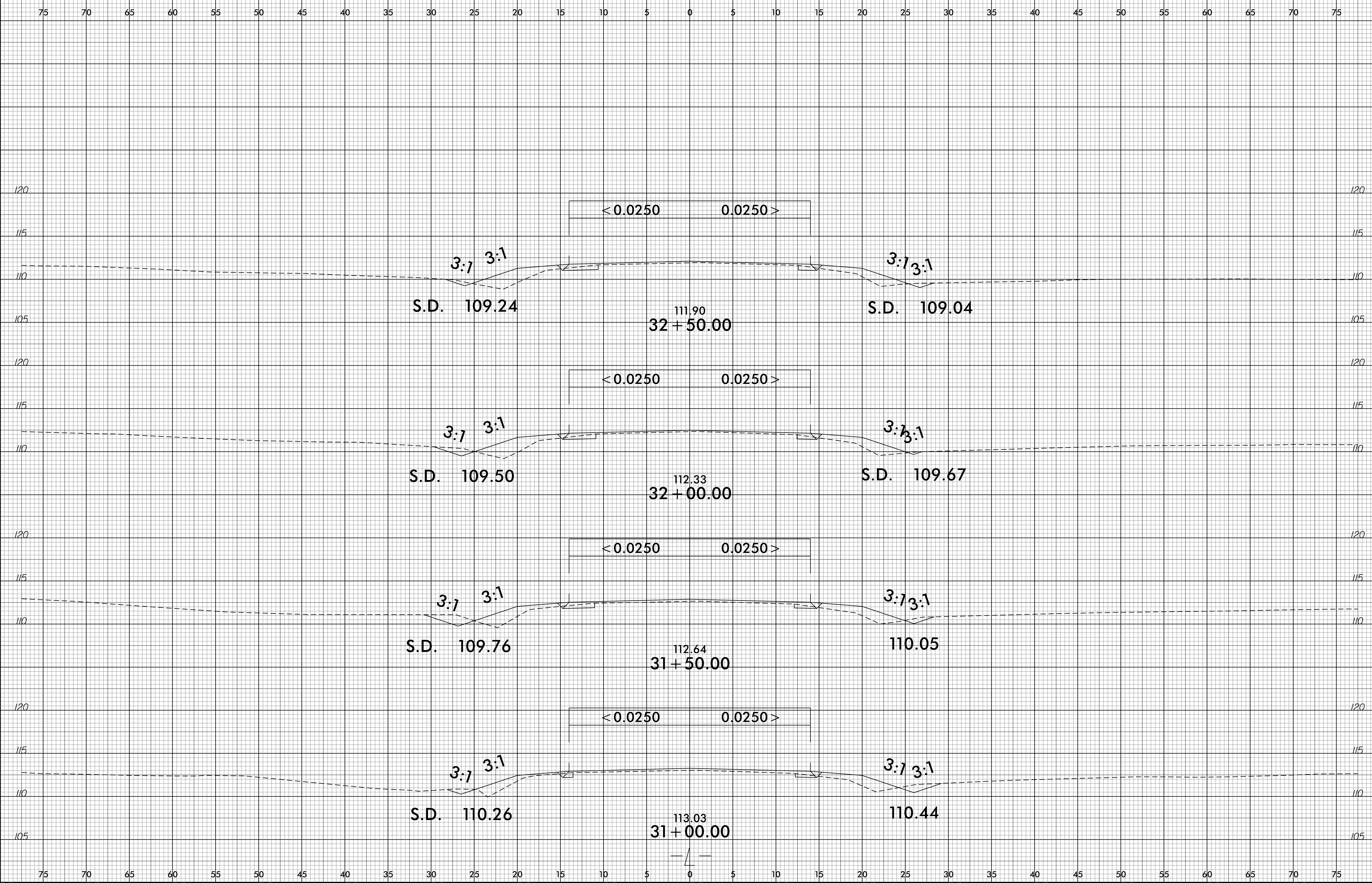
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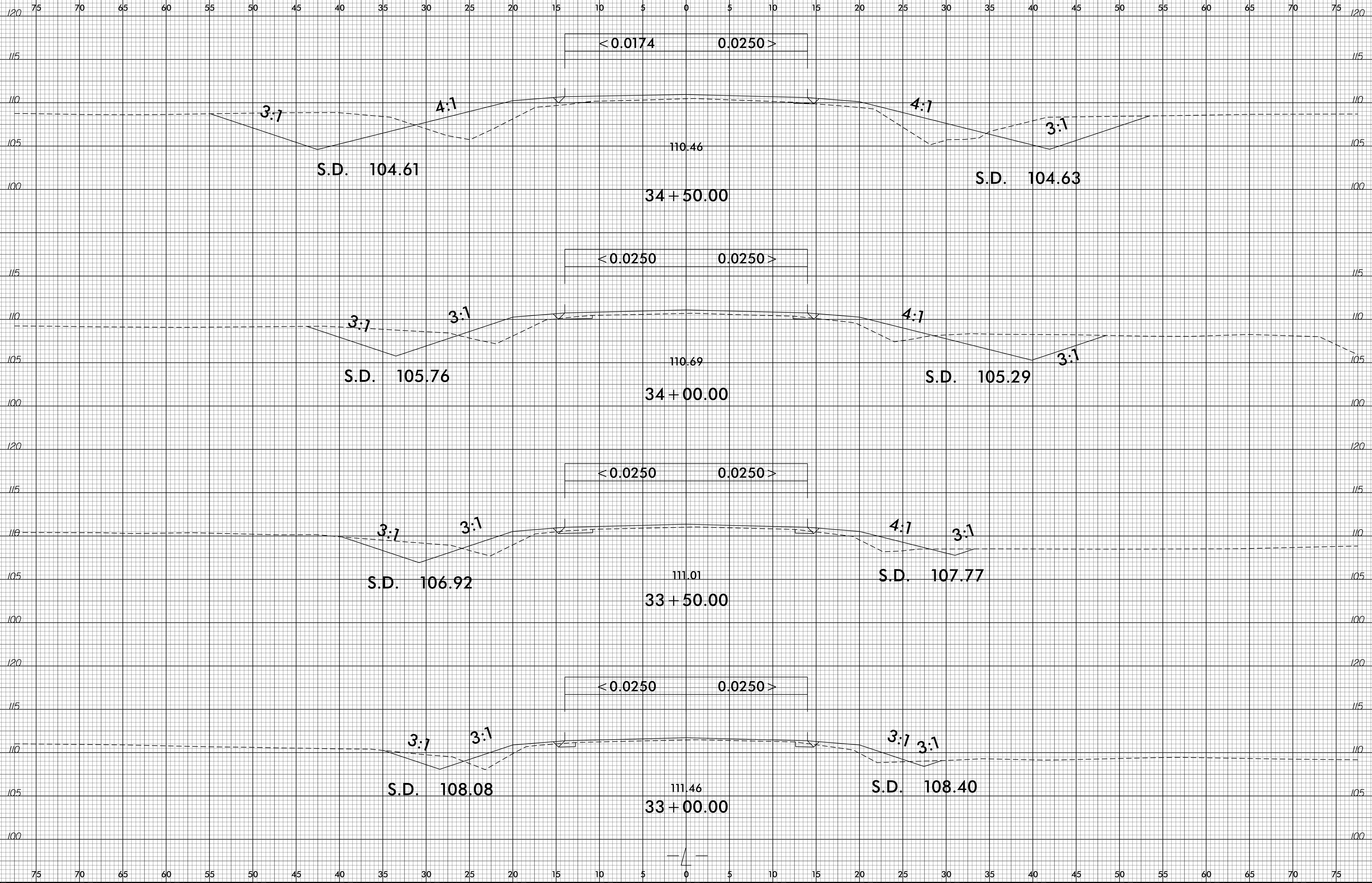


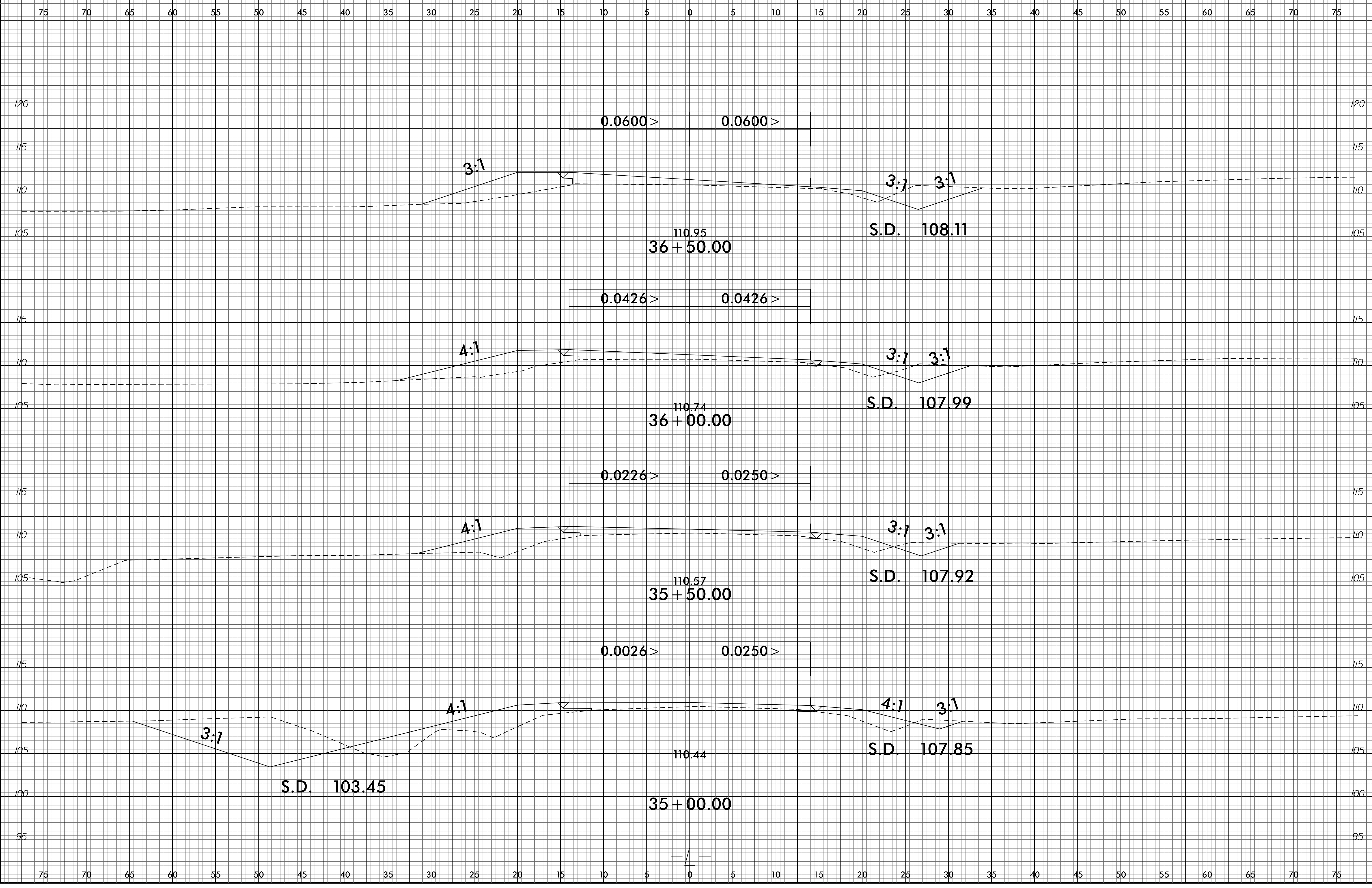


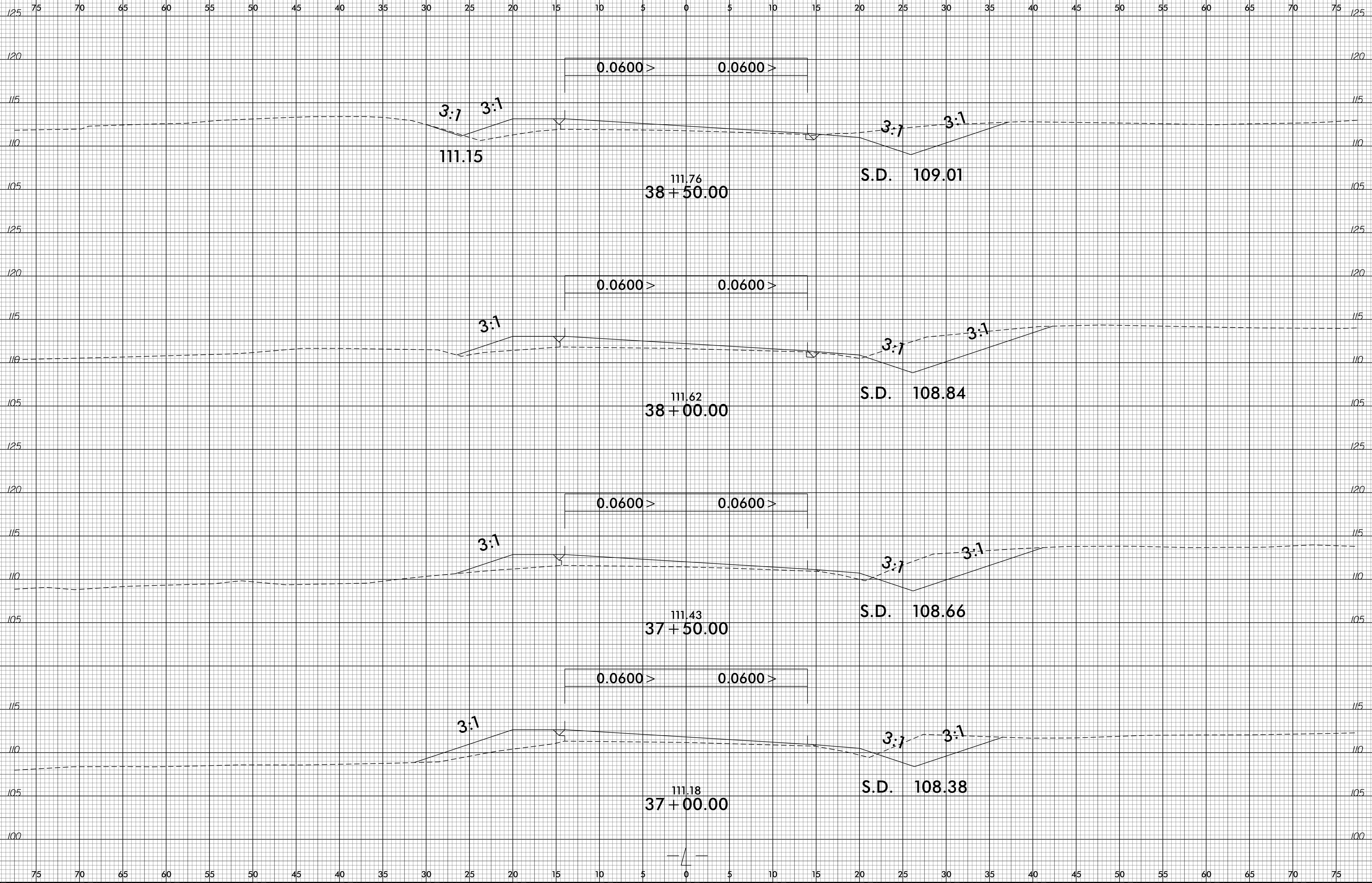


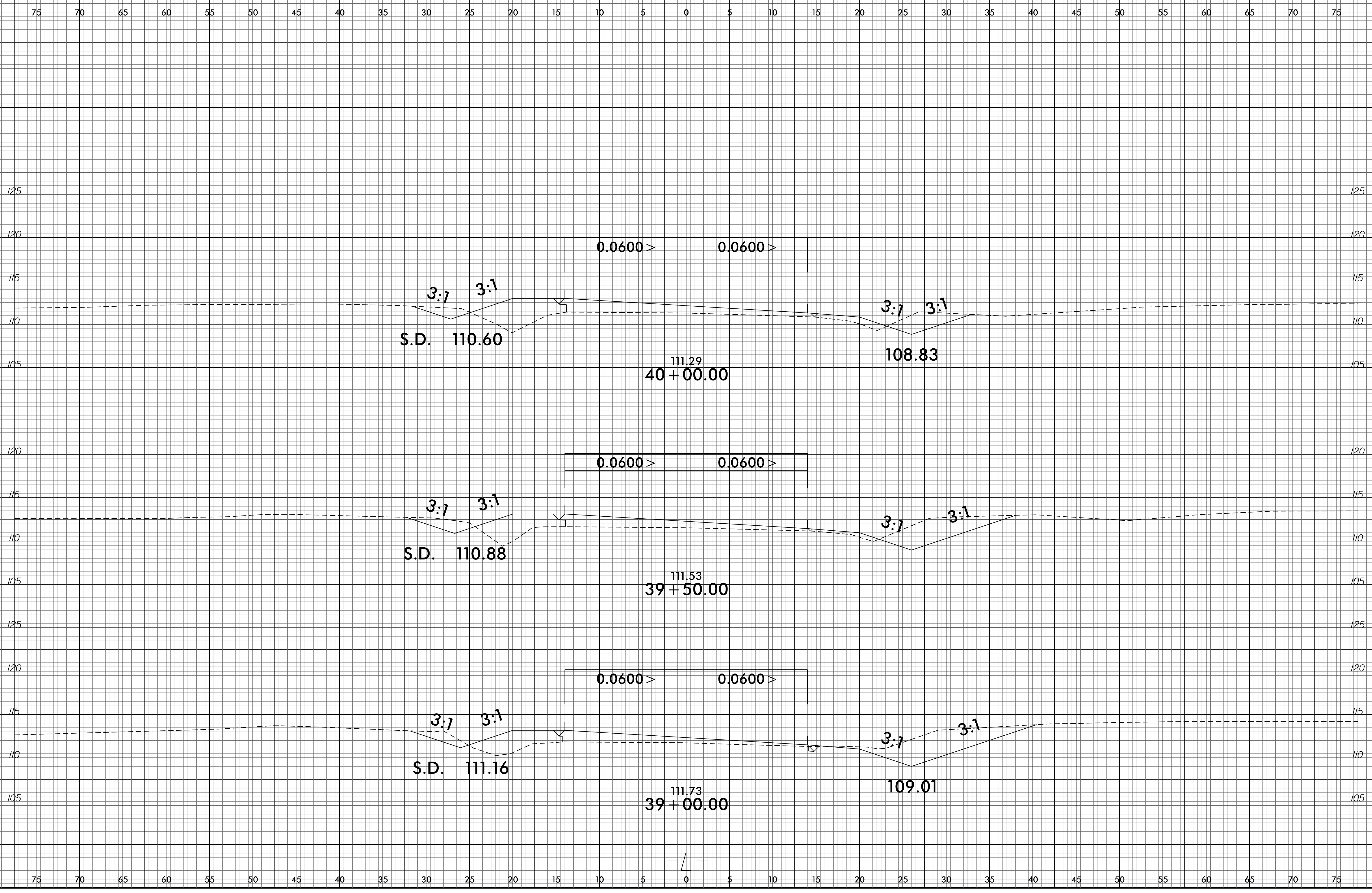


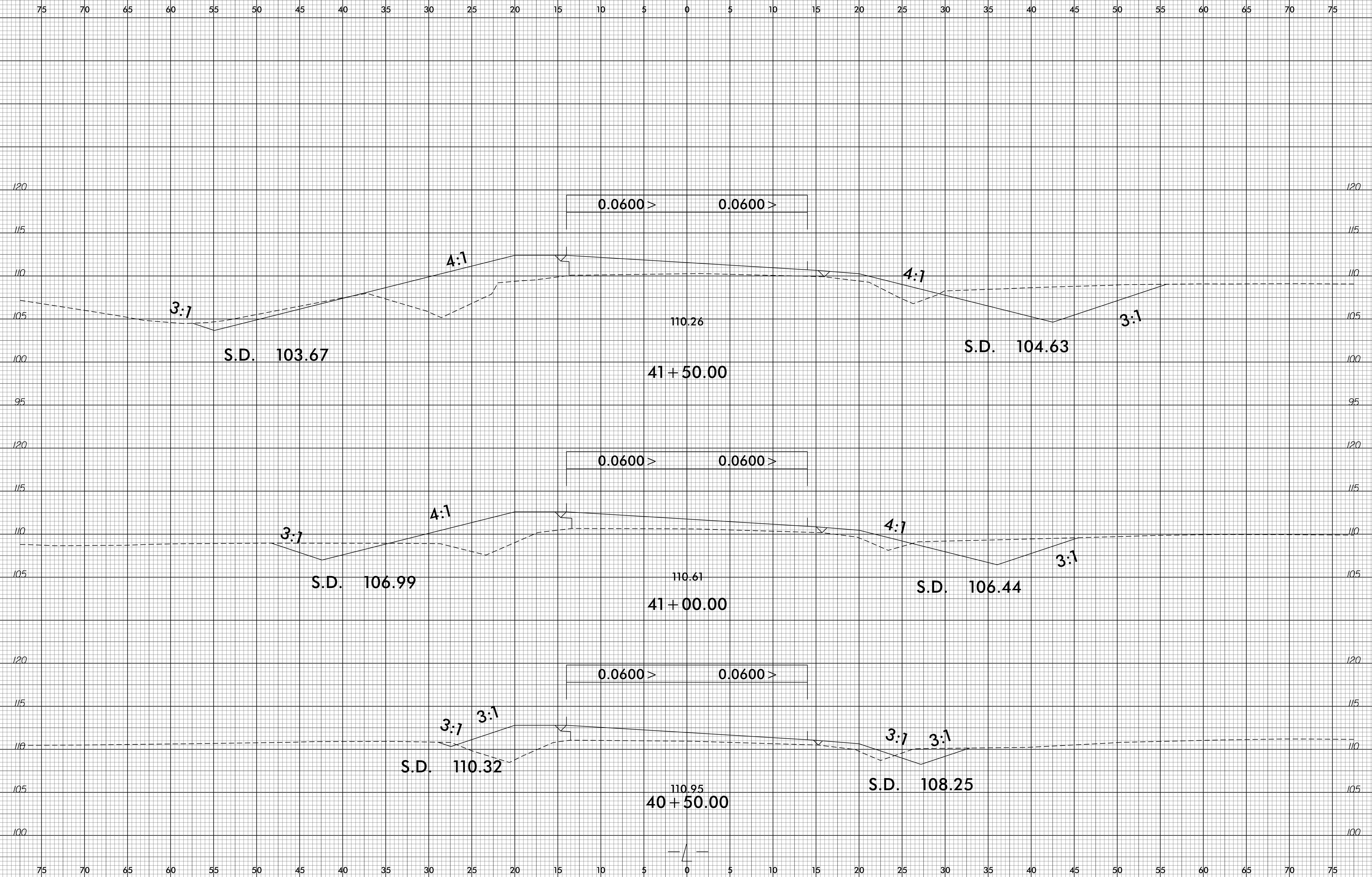


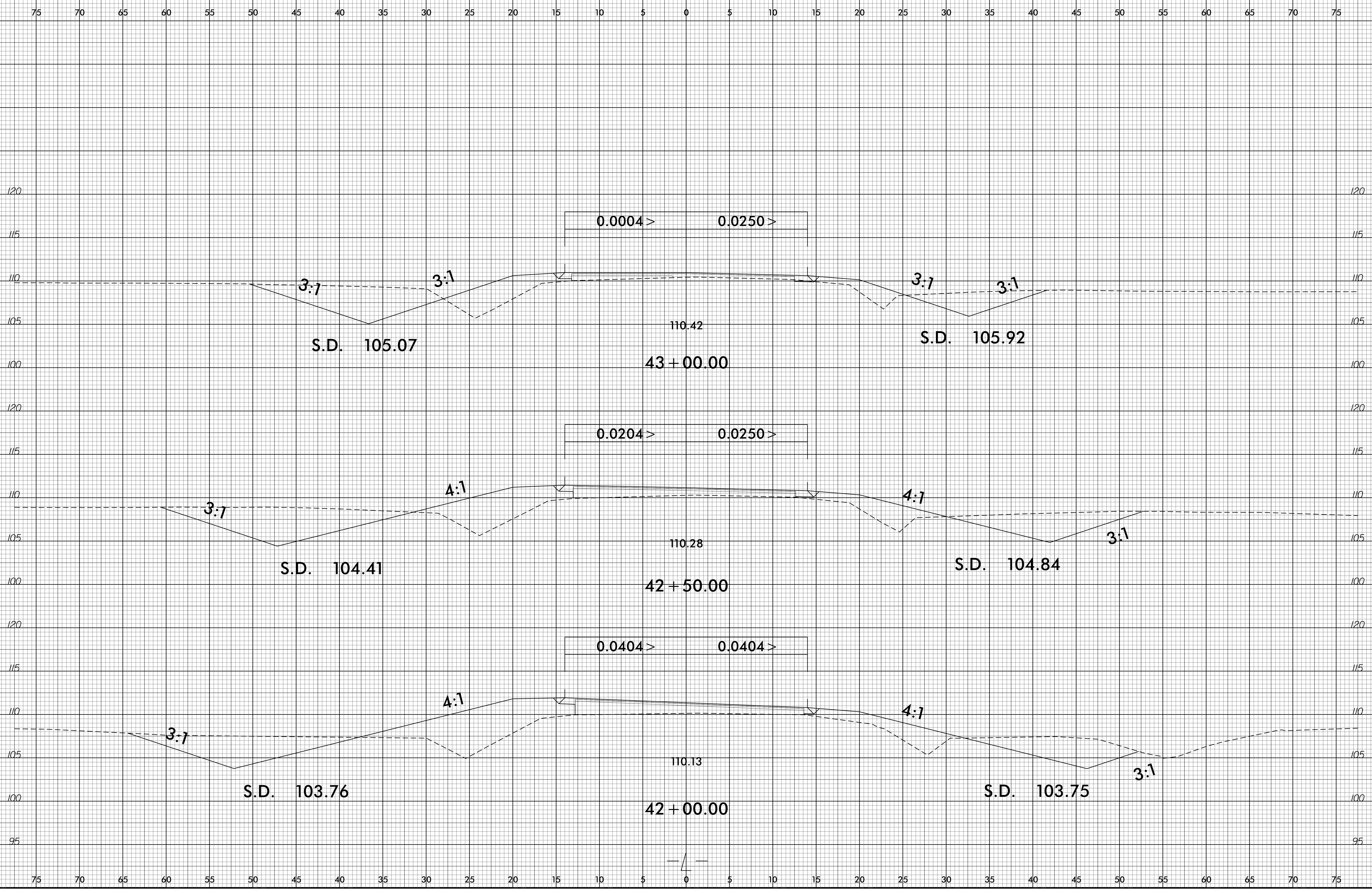


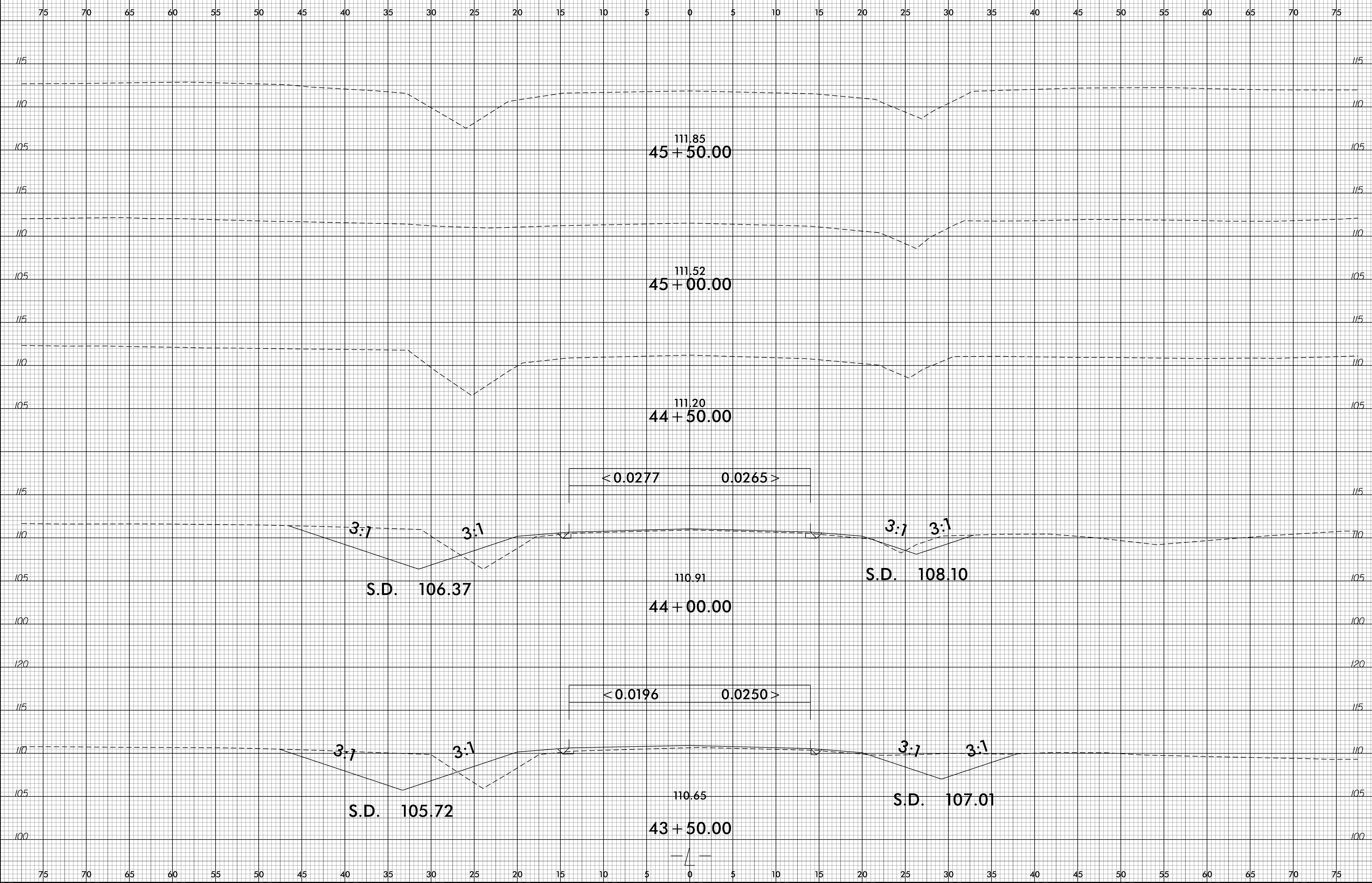


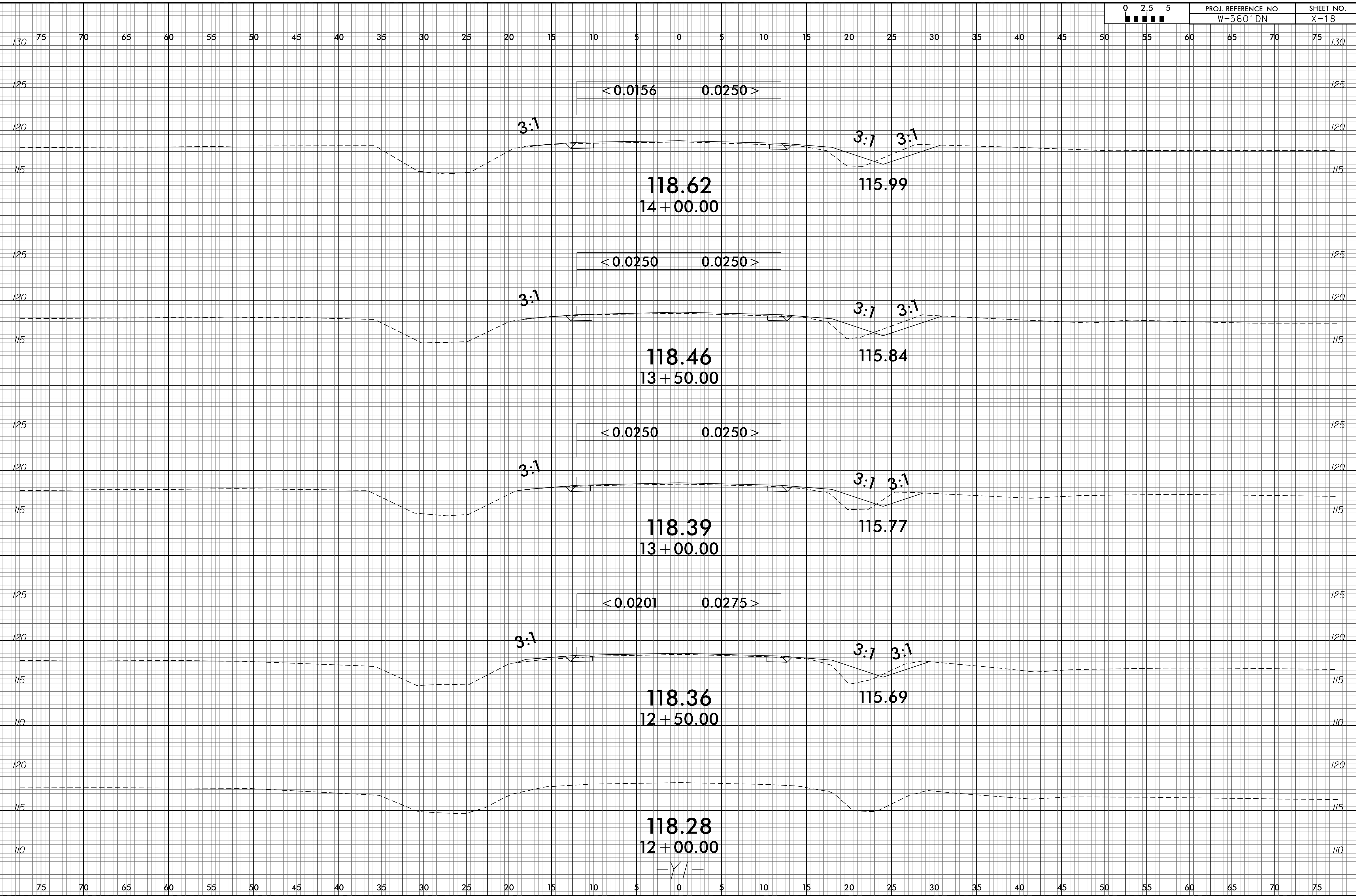






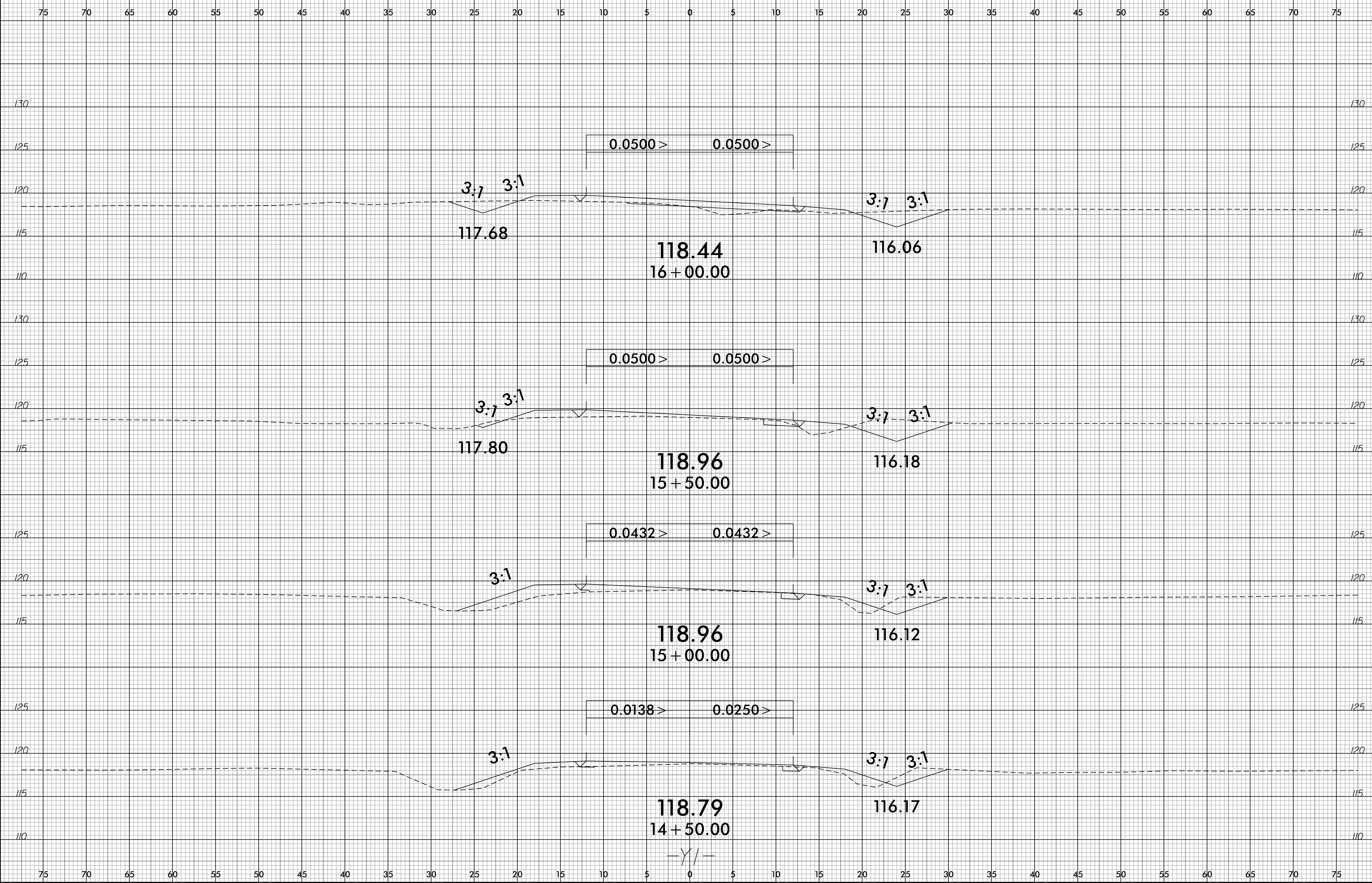




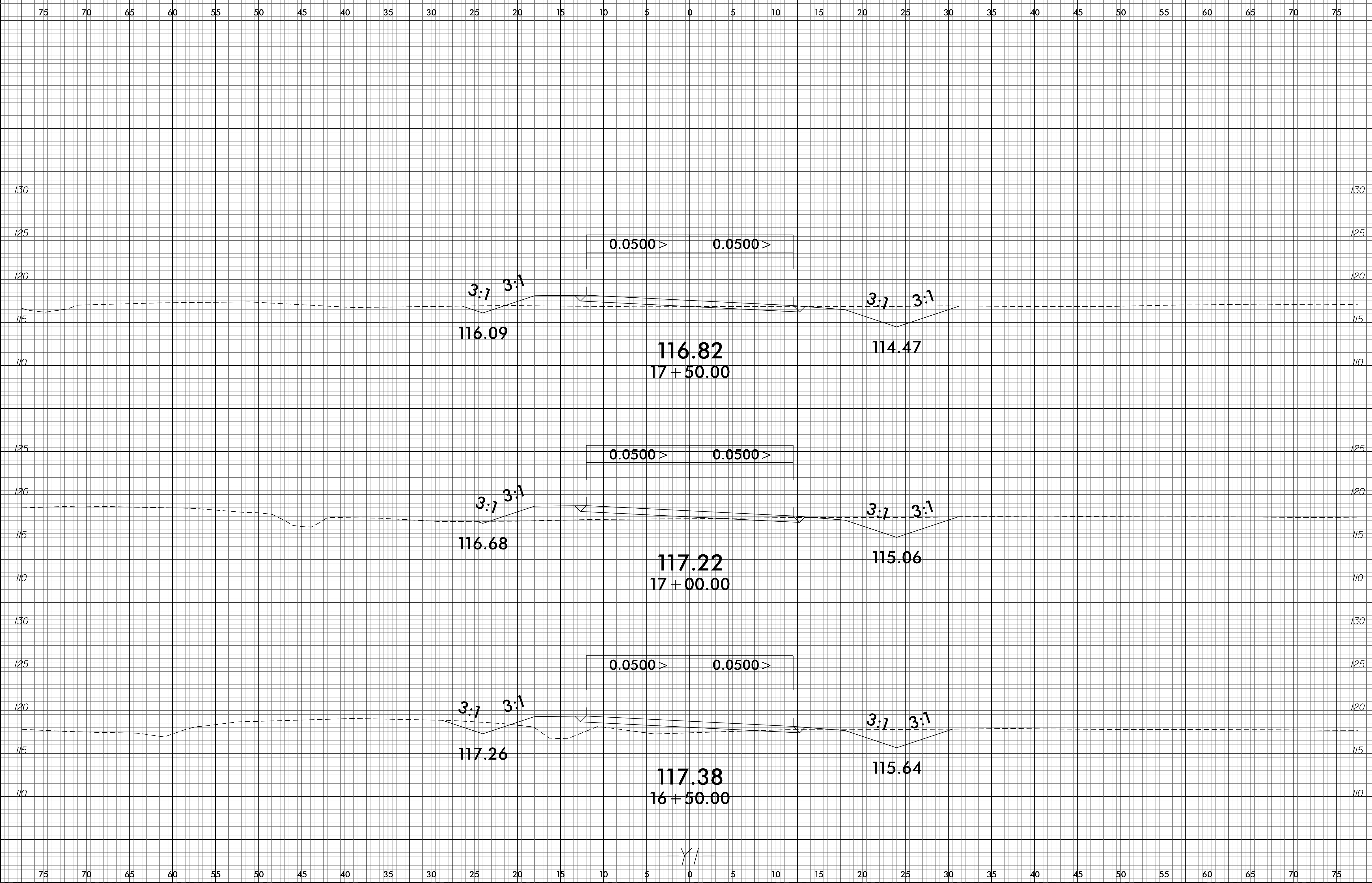




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