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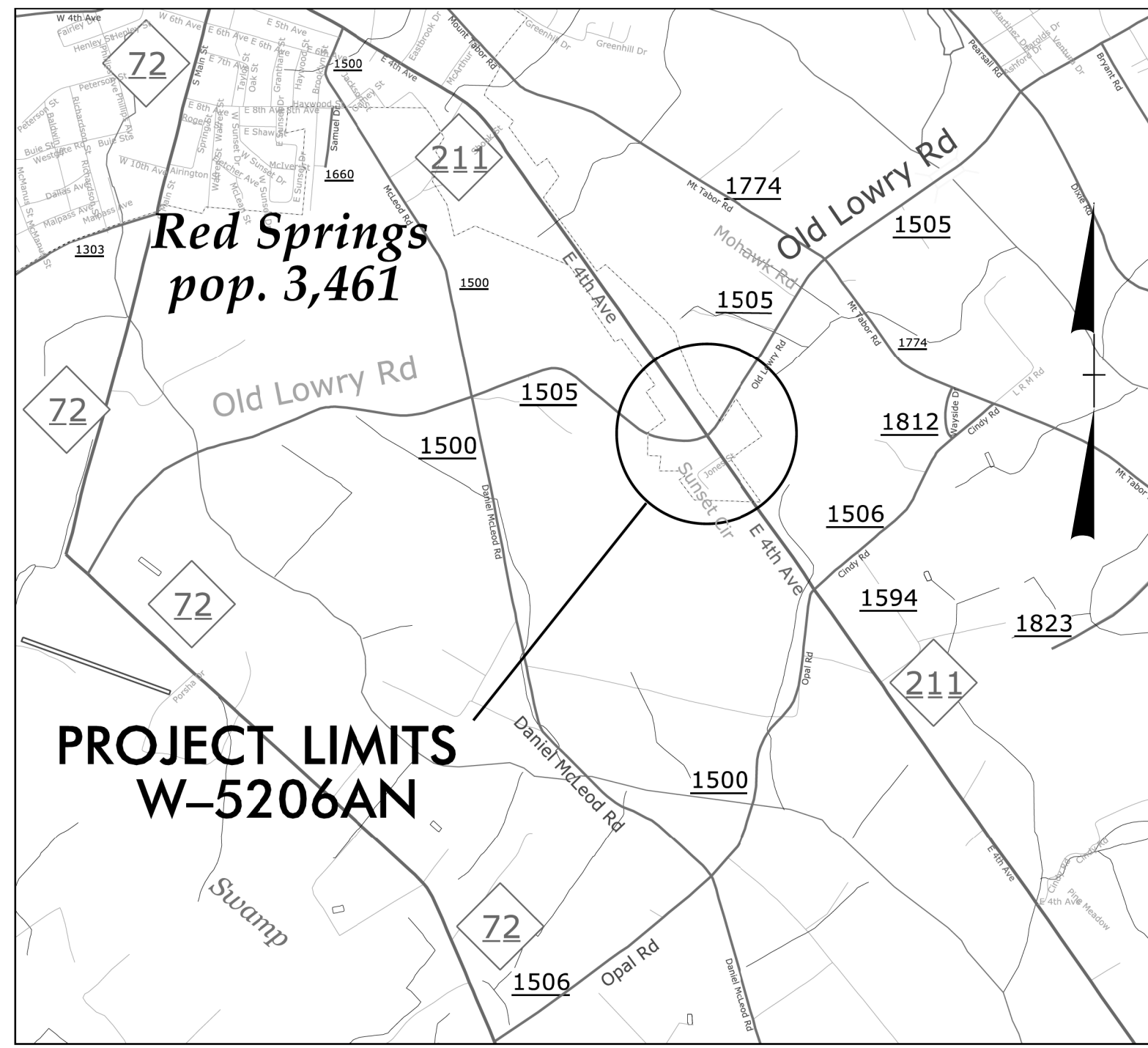
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5206AN	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45336.1.FR40	HSIP-0211(36)	PE	
45336.2.FR40	HSIP-0211(36)	RW, UTILS	
45336.3.FR40	HSIP-0211(36)	CONSTR	

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

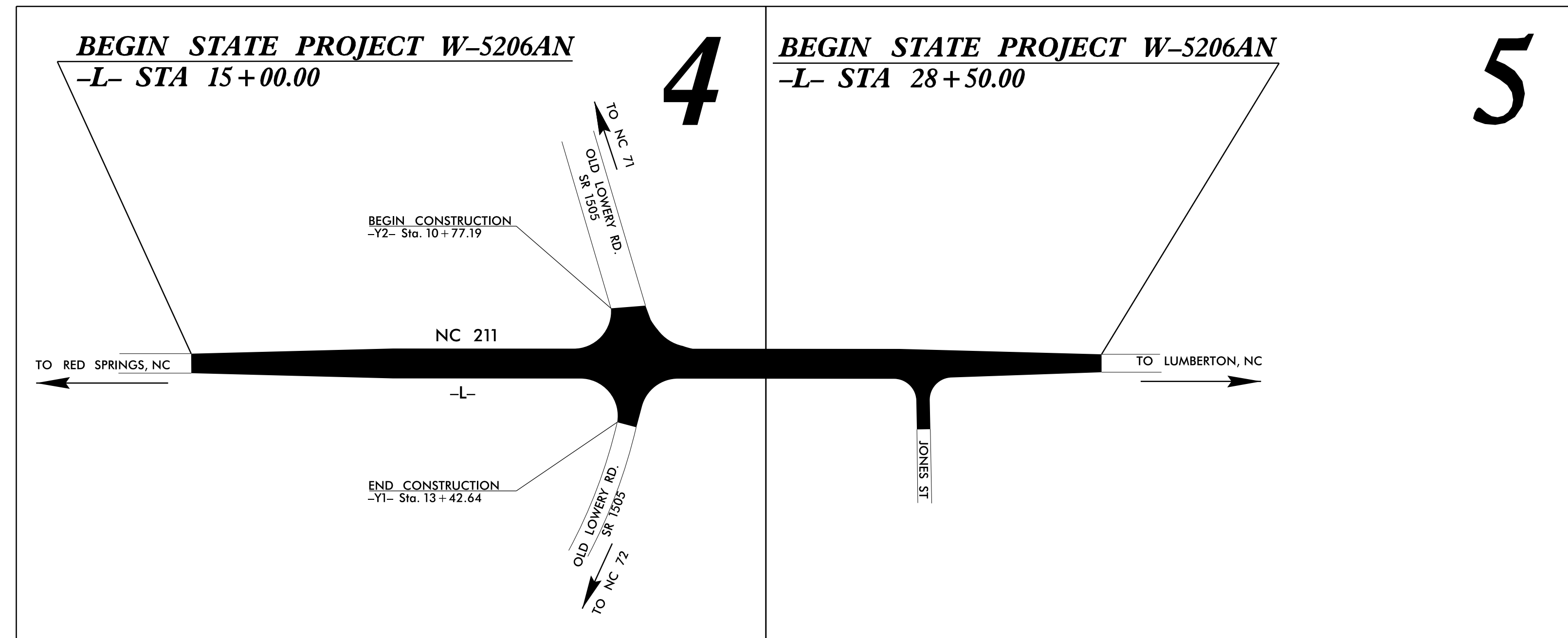
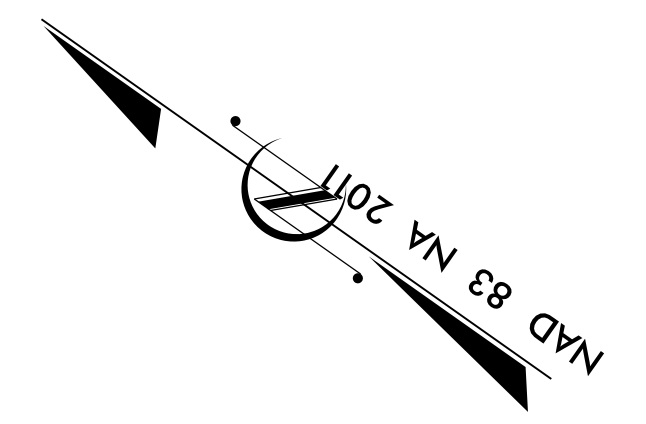
# ROBESON COUNTY

LOCATION: NC 211 AT SR 1505 (OLD LOWERY ROAD)

TYPE OF WORK: WIDENING, GRADING, UTILITY CONSTRUCTION, DRAINAGE, PAVING AND PAVEMENT MARKINGS



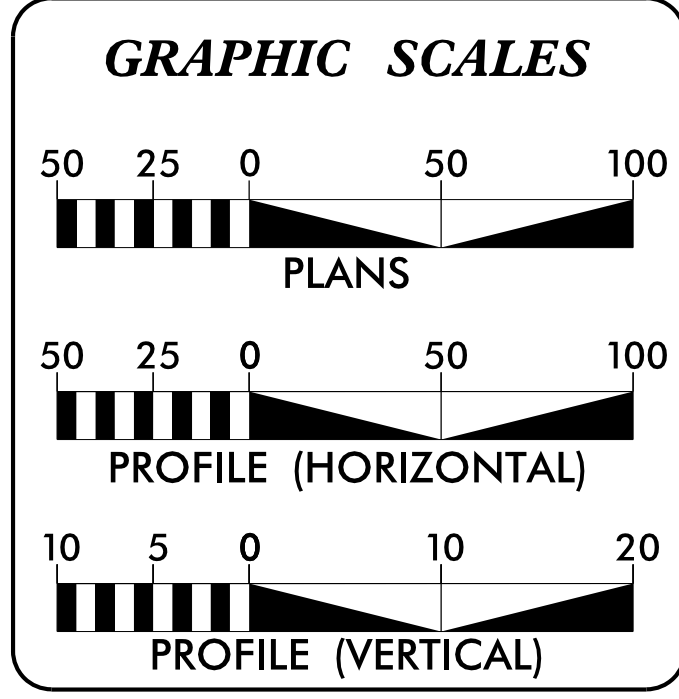
VICINITY MAP NOT TO SCALE



DOCUMENT NOT CONSIDERED FINAL  
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TIP PROJECT: W-5206AN

CONTRACT:



**DESIGN DATA**

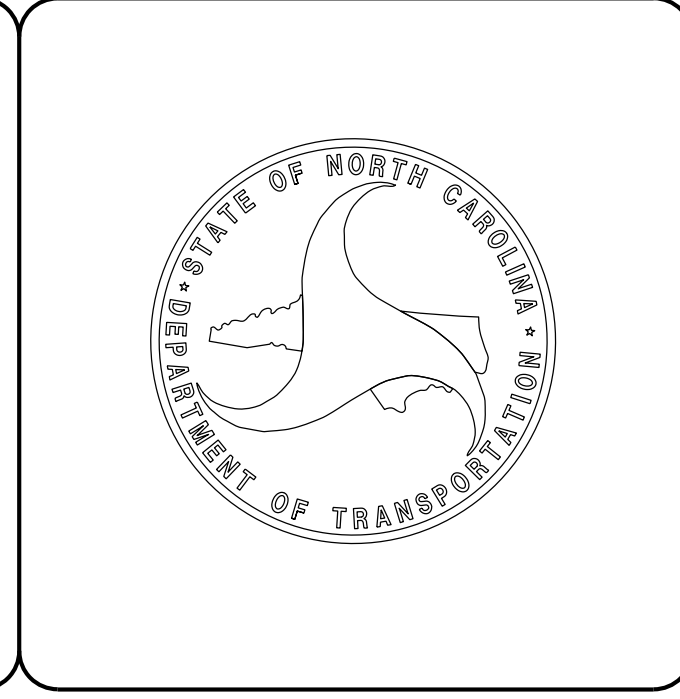
ADT 2014	=	2,400
ADT 2034	=	4,350
D	=	50 %
V	=	50 MPH
* TTST	=	8 DUAL 5 ESTIMATED
REGIONAL	TIER	

**PROJECT LENGTH**

PROJECT LENGTH = 0.231mi

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
431 Transportation Drive, Fayetteville, NC 28301

2012 STANDARD SPECIFICATIONS	
<b>RIGHT OF WAY DATE:</b> FEBRUARY 25, 2015	<b>SEAN MATUSZEWSKI</b> PROJECT ENGINEER
<b>LETTING DATE:</b> FEBRUARY 24, 2016	<b>RICK HANDLIN</b> PROJECT DESIGN ENGINEER



22-JAN-2016 10:09 H:\DCC\Projects\W-5206AN\NC 211Robeson County\Roadway\Proj\W5206AN.Rdy.tsh.dgn \$\$\$\$USERNAME\$\$\$

Note: Not to Scale

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

# CONVENTIONAL PLAN SHEET SYMBOLS

## BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EP
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	MLB
Proposed Wetland Boundary	MLB
Existing Endangered Animal Boundary	EAB
Existing Endangered Plant Boundary	EPB
Existing Historic Property Boundary	HPB
Known Soil Contamination: Area or Site	☠
Potential Soil Contamination: Area or Site	☠?

## 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	○ CSX TRANSPORTATION MILEPOST 35
Switch	□ SWITCH
RR Abandoned	-----
RR Dismantled	-----

## RIGHT OF WAY:

Baseline Control Point	◆
Existing Right of Way Marker	△
Existing Right of Way Line	-----
Proposed Right of Way Line	○ RW
Proposed Right of Way Line with Iron Pin and Cap Marker	○ RW ▲
Proposed Right of Way Line with Concrete or Granite R/W Marker	▲ RW
Proposed Control of Access Line with Concrete CA Marker	○ CA
Existing Control of Access	○ CA
Proposed Control of Access	○ CA
Existing Easement Line	----- E
Proposed Temporary Construction Easement	----- E
Proposed Temporary Drainage Easement	----- TDE
Proposed Permanent Drainage Easement	----- PDE
Proposed Permanent Drainage / Utility Easement	----- DUE
Proposed Permanent Utility Easement	----- PUE
Proposed Temporary Utility Easement	----- TUE
Proposed Aerial Utility Easement	----- AUE
Proposed Permanent Easement with Iron Pin and Cap Marker	◆

## 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	○ 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	●
Recorded U/G Power Line	----- P
Designated U/G Power Line (S.U.E.*)	----- P

## TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Booth	□
Telephone Pedestal	⊕
Telephone Cell Tower	●
U/G Telephone Cable Hand Hole	□
Recorded U/G Telephone Cable	----- T
Designated U/G Telephone Cable (S.U.E.*)	----- T
Recorded U/G Telephone Conduit	----- TC
Designated U/G Telephone Conduit (S.U.E.*)	----- TC
Recorded U/G Fiber Optics Cable	----- T FO
Designated U/G Fiber Optics Cable (S.U.E.*)	----- T FO

## WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
Recorded U/G Water Line	----- W
Designated U/G Water Line (S.U.E.*)	----- W
Above Ground Water Line	----- A/G Water

## TV:

TV Satellite Dish	☼
TV Pedestal	□
TV Tower	⊗
U/G TV Cable Hand Hole	□
Recorded U/G TV Cable	----- TV
Designated U/G TV Cable (S.U.E.*)	----- TV
Recorded U/G Fiber Optic Cable	----- TV FO
Designated U/G Fiber Optic Cable (S.U.E.*)	----- TV FO

## GAS:

Gas Valve	◇
Gas Meter	⊕
Recorded U/G Gas Line	----- G
Designated U/G Gas Line (S.U.E.*)	----- G
Above Ground Gas Line	----- A/G Gas

## SANITARY SEWER:

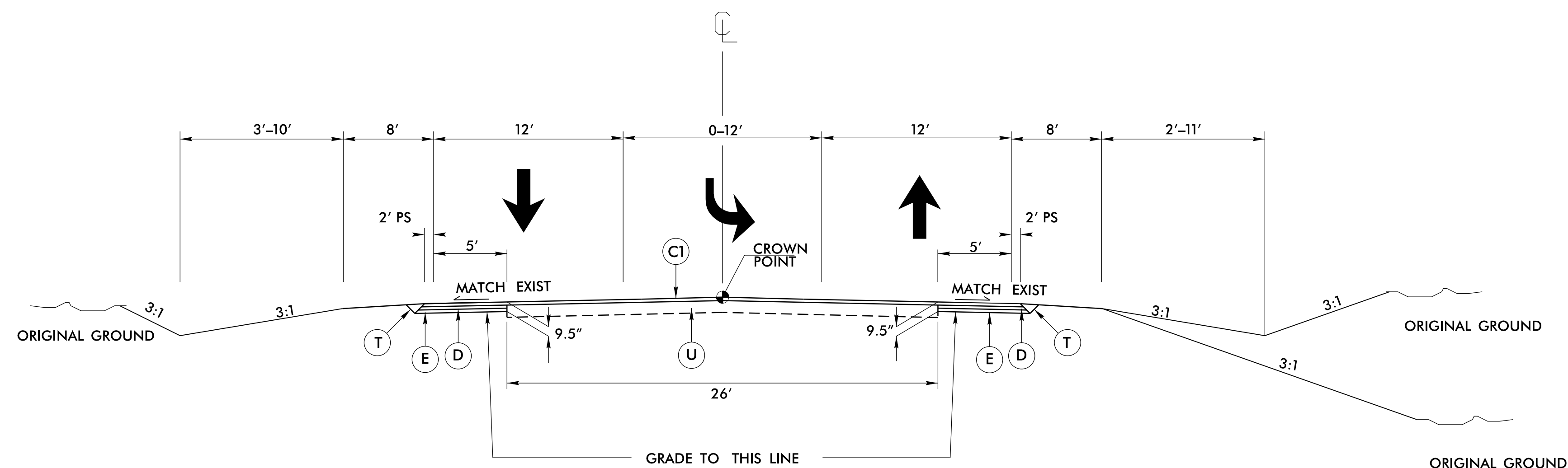
Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	----- SS
Above Ground Sanitary Sewer	----- A/G Sanitary Sewer
Recorded SS Forced Main Line	----- FSS
Designated SS Forced Main Line (S.U.E.*)	----- FSS

## MISCELLANEOUS:

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

PROJECT REFERENCE NO.	SHEET NO.
W-5206AN	2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

**TRANSITION FROM EXISTING TO TYPICAL NO. 1**  
-L- STA. 15+00.00 TO STA 17+94.37



**TYPICAL SECTION NO. 1**  
-L- STA. 17+94.37 TO STA 24+64.05

**TRANSITION FROM TYPICAL NO. 1 TO EXISTING**  
-L- STA. 24+64.05 TO STA 28+50.00

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D	PROP. APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
E	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
T	EARTH MATERIAL
U	EXISTING PAVEMENT

**PROJECT NOTES**

1. The Contractor shall not work on both sides of the road simultaneously within the same area.
2. Ingress and egress shall be maintained to all businesses dwellings on the project.
3. at the end of each workday, the Contractor shall be required to backfill any area adjacent to existing travelway that has been graded leaving no more than a 3" drop-off.
4. A minimum of two-way, two-lane traffic (plus all existing left and right turn lanes) shall be maintained during periods of construction inactivity.
5. The Contractor shall not be allowed to stop traffic for more than 5 minutes at a time in any one direction.
6. During periods of construction inactivity, the difference in elevation between lanes shall not exceed 1 1/2 inch.
7. Access to police and fire stations, fire hydrants, and hospitals shall be maintained at all times.
8. During periods of construction inactivity, place cones/drums 3' from existing edge of pavement (travelway) as directed by the Engineer.
9. Contractor to install and maintain all Erosion Control devices as directed by the Engineer.

**MILLING AT PAVEMENT TIE-INS**

**NOTES TO CONTRACTOR**

For surface mixes over 1" in thickness, mill the existing pavement in accordance with the following sketch as directed by the Engineer.

Locations shall include ties into existing concrete pavement, at bridge approaches where the bridge will not be resurfaced, and at the beginning and ending point of each resurfacing map.

Perform the work in accordance with Section 607 of the January 2012 North Carolina Department of Transportation Standard Specifications for Roads and Structures. Resurfacing will be accomplished at the same time as the milling operation.

CONTRACTOR SHALL COORDINATE WITH LOCAL TRAFFIC SERVICES UNIT PRIOR TO THE INSTALLATION OF ALL PROPOSED SIGNAL DESIGN AND PLACEMENT OF ALL PAVEMENT MARKINGS.

FOR SIGNAL WORK, CONTACT FRANK WEST 910-486-1452, 28 DAYS PRIOR TO PLACEMENT.

FOR PAVEMENT MARKING, CONTACT KENT LANGDON 910-486-1452, 14 DAYS PRIOR TO FINAL PLACEMENT.

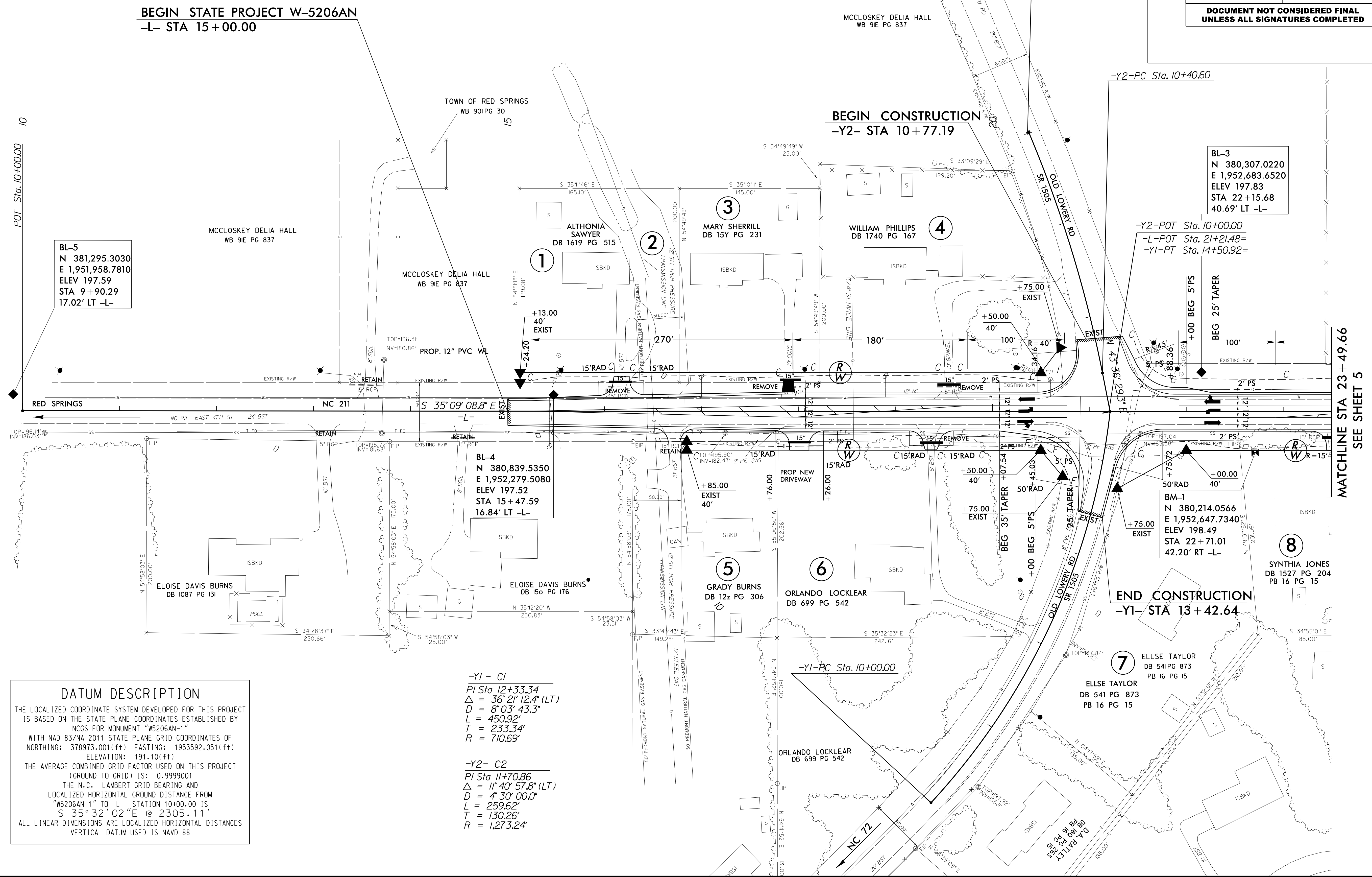
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PROJECT REFERENCE NO.	SHEET NO.
W-5206AN	4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

REVISIONS  
 22 JAN 2016 10:04 W-5206AN NC 211 Robeson County\Roadway\Proc\W5206AN\_Bdy.psh\_4.dgn  
 8/17/99



BL-5  
 N 381,295.3030  
 E 1,951,958.7810  
 ELEV 197.59  
 STA 9+90.29  
 17.02' LT -L-

BL-4  
 N 380,839.5350  
 E 1,952,279.5080  
 ELEV 197.52  
 STA 15+47.59  
 16.84' LT -L-

BL-3  
 N 380,307.0220  
 E 1,952,683.6520  
 ELEV 197.83  
 STA 22+15.68  
 40.69' LT -L-

BM-1  
 N 380,214.0566  
 E 1,952,647.7340  
 ELEV 198.49  
 STA 22+71.01  
 42.20' RT -L-

**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "W5206AN-1" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 378973.001(±ft) EASTING: 1953592.051(±ft) ELEVATION: 191.10(±ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9999001

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "W5206AN-1" TO -L- STATION 10+00.00 IS  
 S 35° 32' 02" E @ 2305.11'

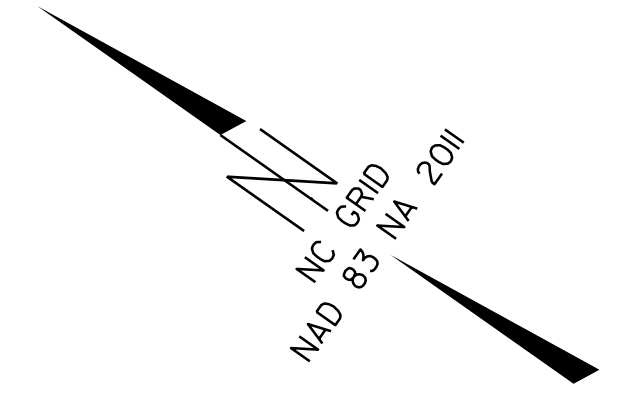
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES  
 VERTICAL DATUM USED IS NAVD 88

-Y1 - C1  
 PI Sta 12+33.34  
 Δ = 36' 21" 12.4" (LT)  
 D = 8' 03" 43.3"  
 L = 450.92'  
 T = 233.34'  
 R = 710.69'

-Y2 - C2  
 PI Sta 11+70.86  
 Δ = 11' 40" 57.8" (LT)  
 D = 4' 30" 00.0"  
 L = 259.62'  
 T = 130.26'  
 R = 1,273.24'

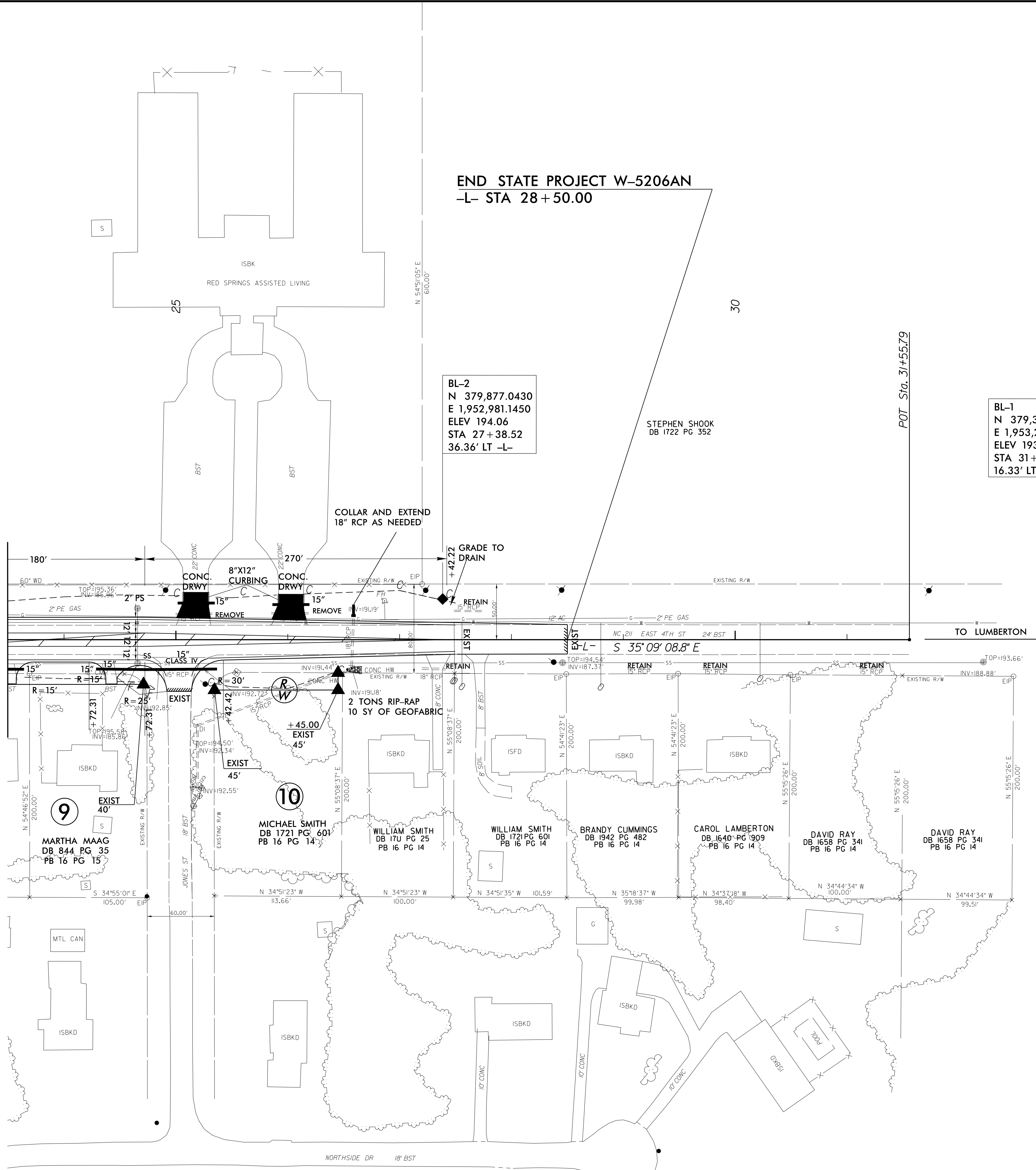
MATCHLINE STA 23+49.66  
 SEE SHEET 5

PROJECT REFERENCE NO.	SHEET NO.
W-5206AN	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



**END STATE PROJECT W-5206AN  
-L- STA 28+50.00**

**MATCHLINE STA 23+49.66  
SEE SHEET 5**



BL-2  
N 379,877.0430  
E 1,952,981.1450  
ELEV 194.06  
STA 27+38.52  
36.36' LT -L-

BL-1  
N 379,397.9990  
E 1,953,293.9780  
ELEV 193.22  
STA 31+55.79  
16.33' LT -L-

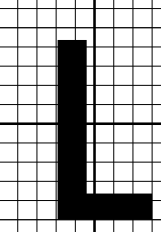
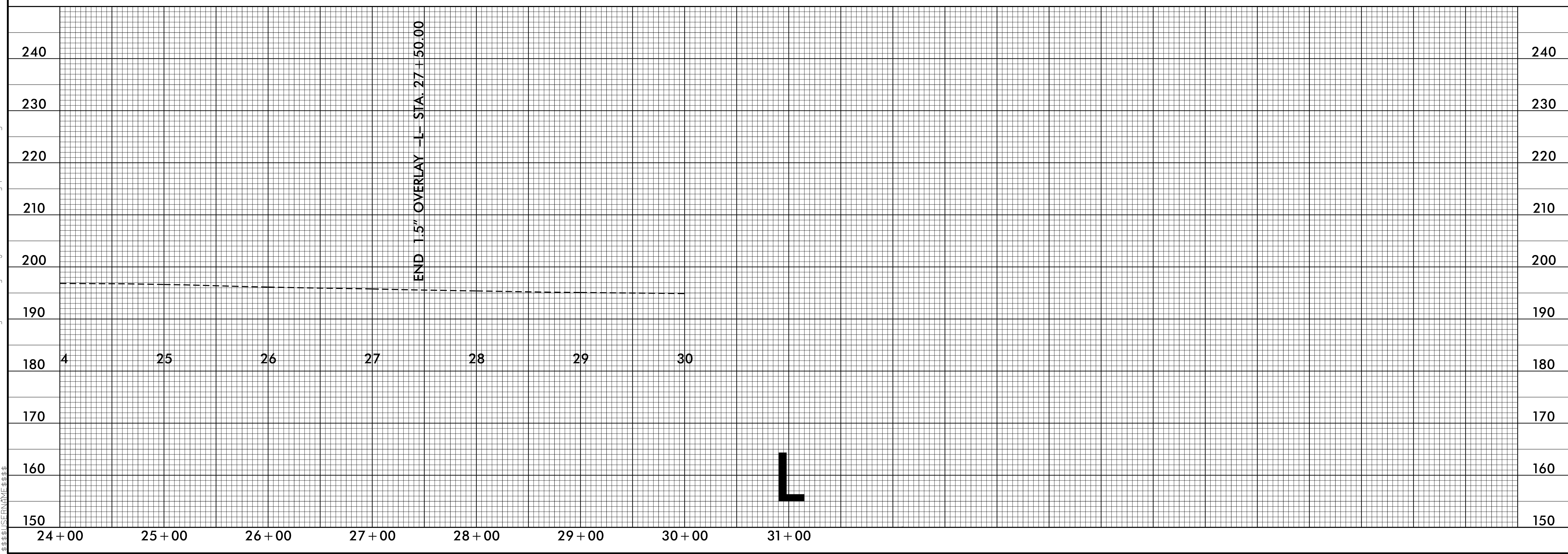
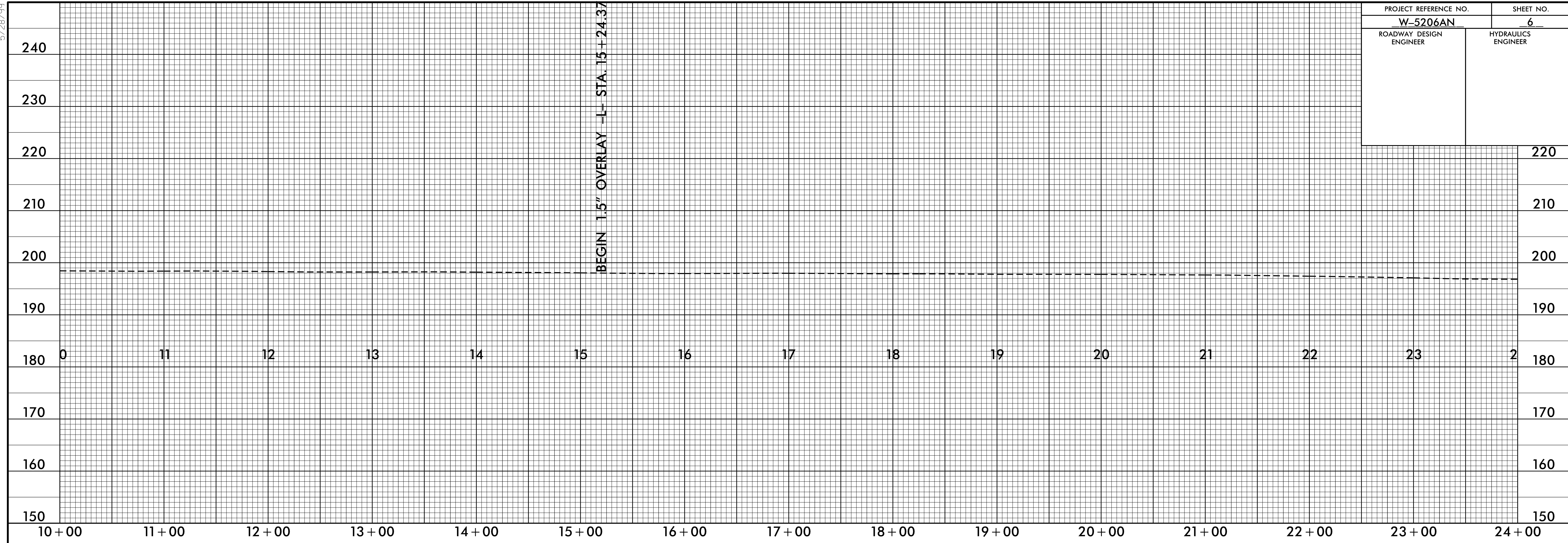
REVISIONS

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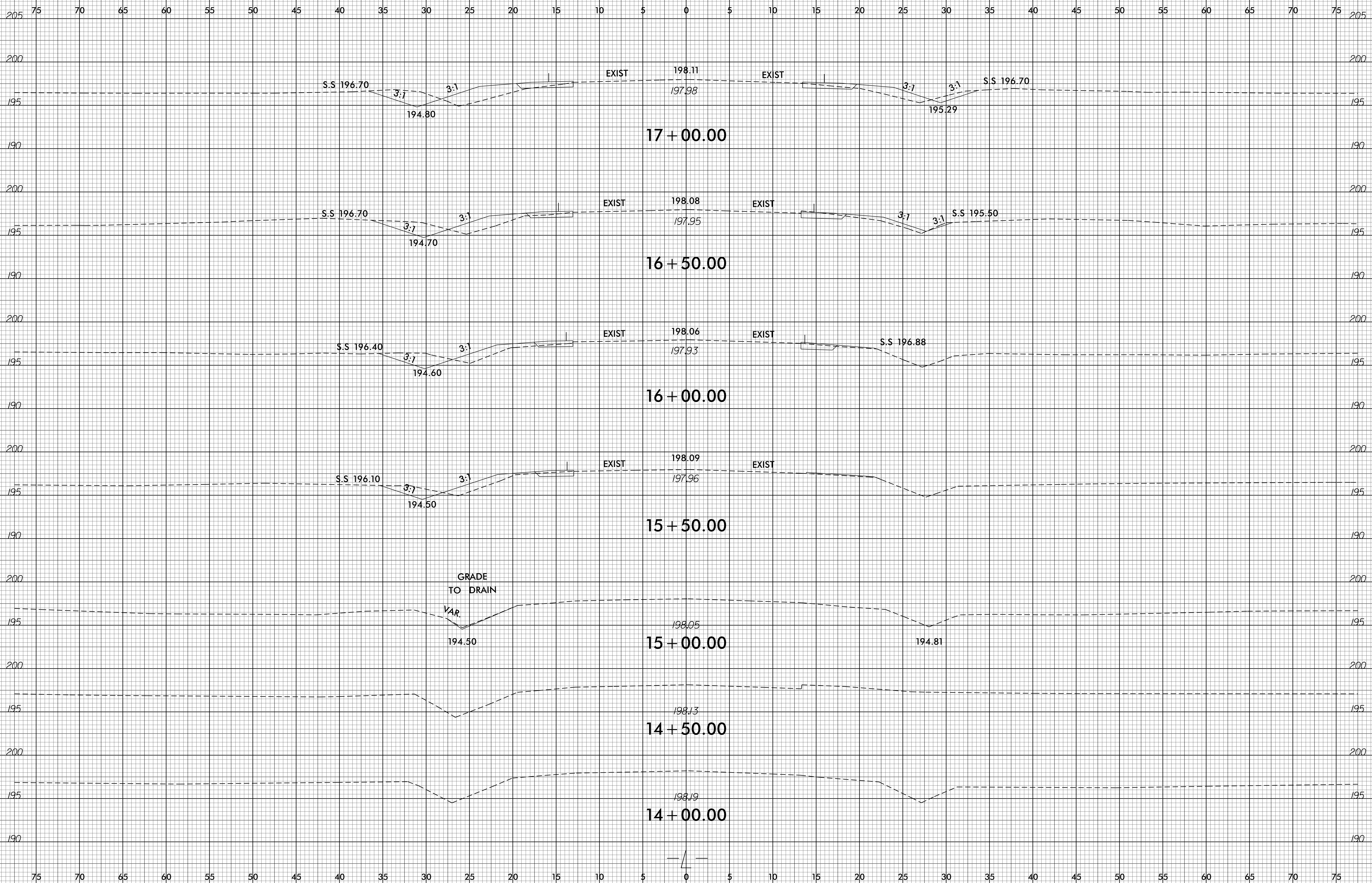
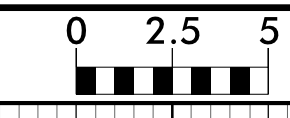
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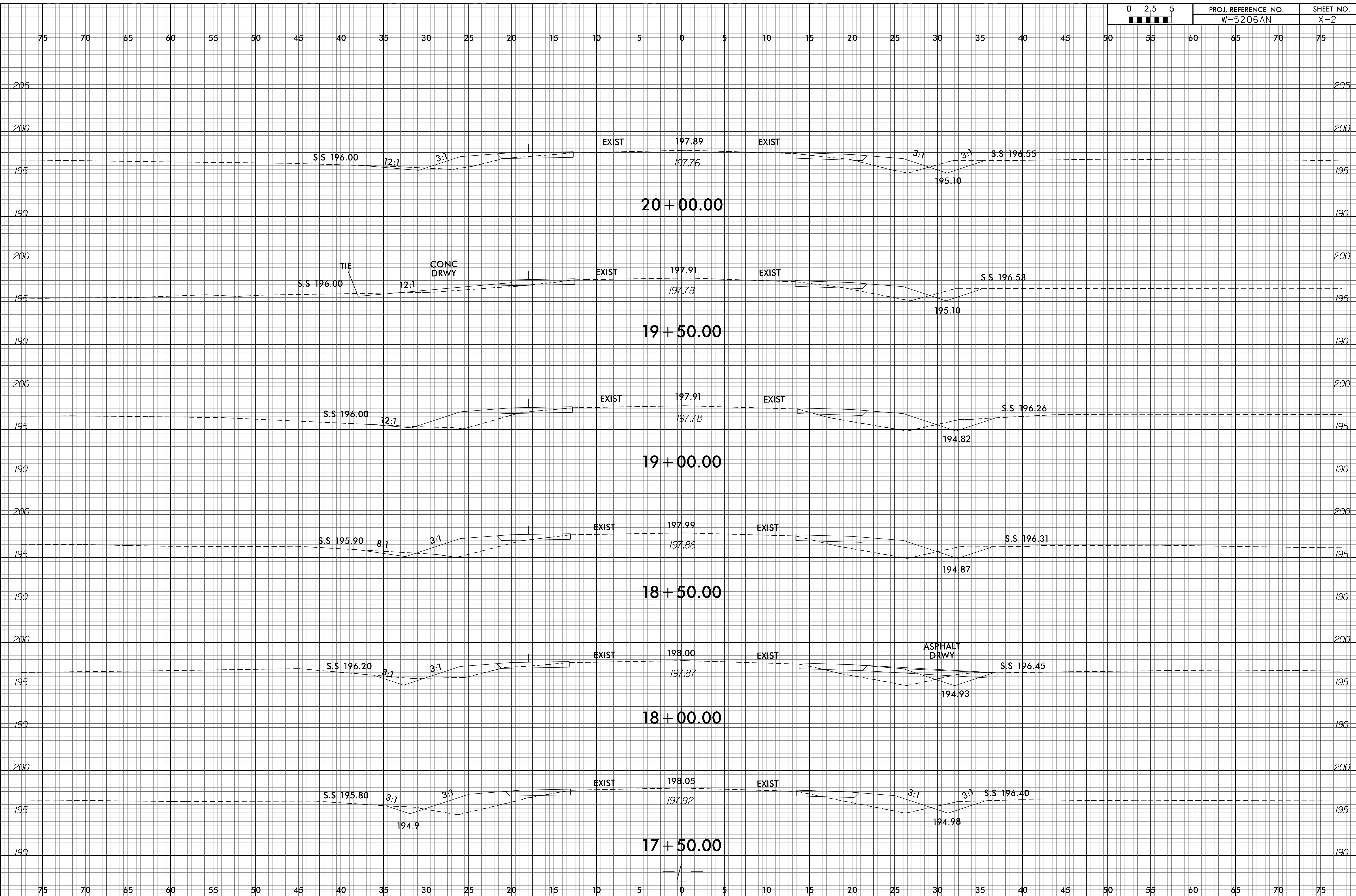
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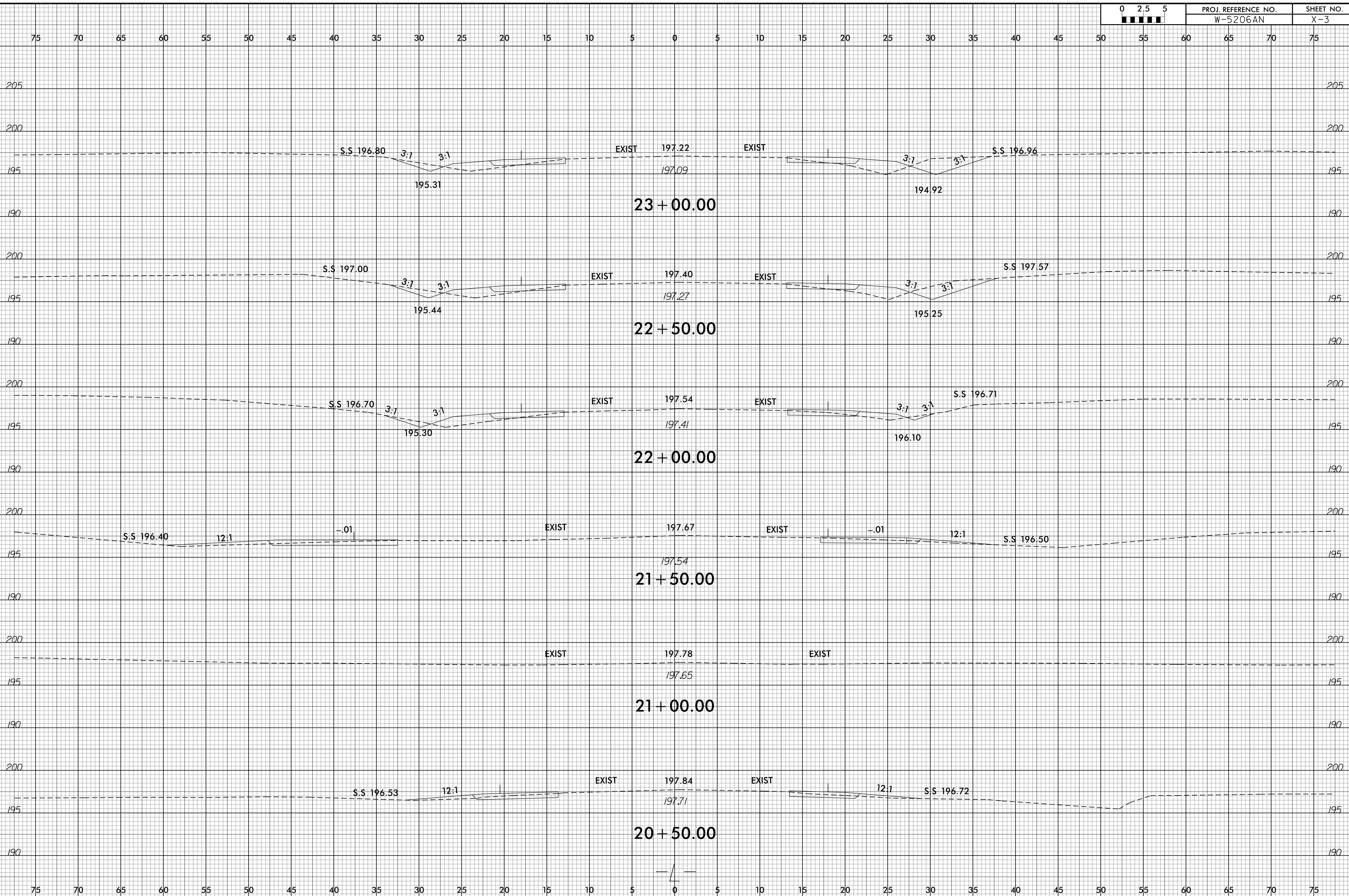
PROJECT REFERENCE NO.	SHEET NO.
W-5206AN	6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

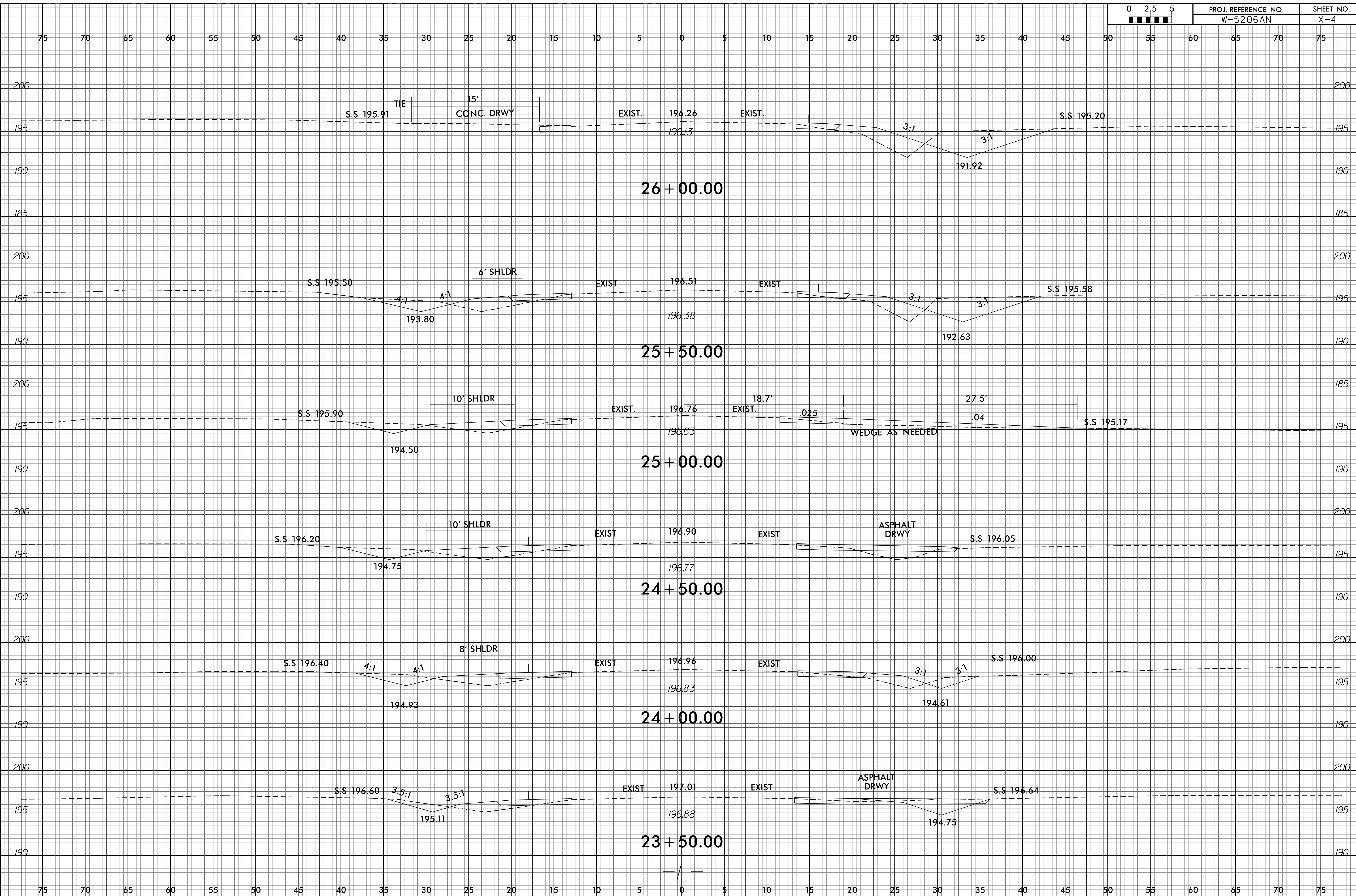




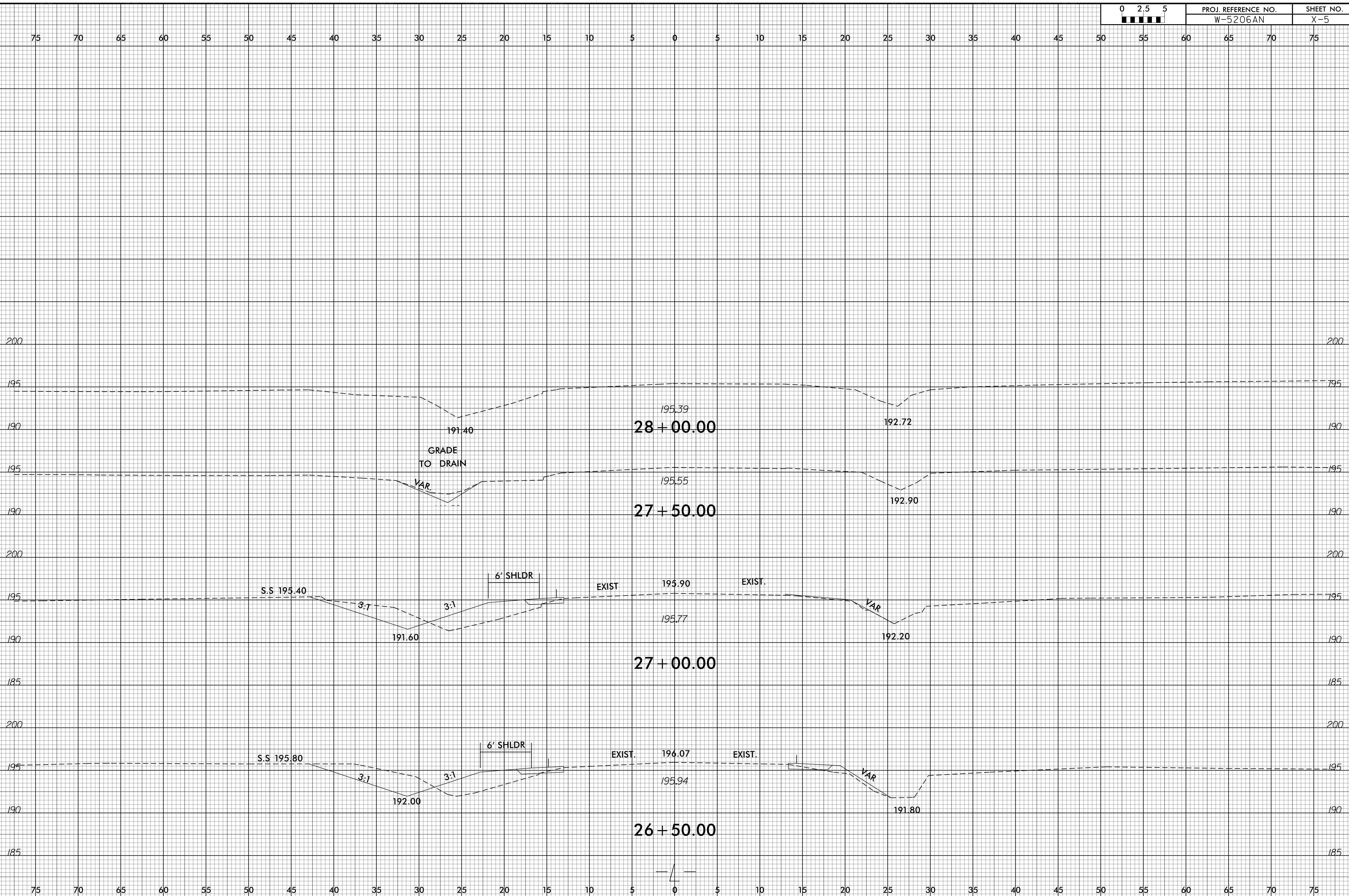






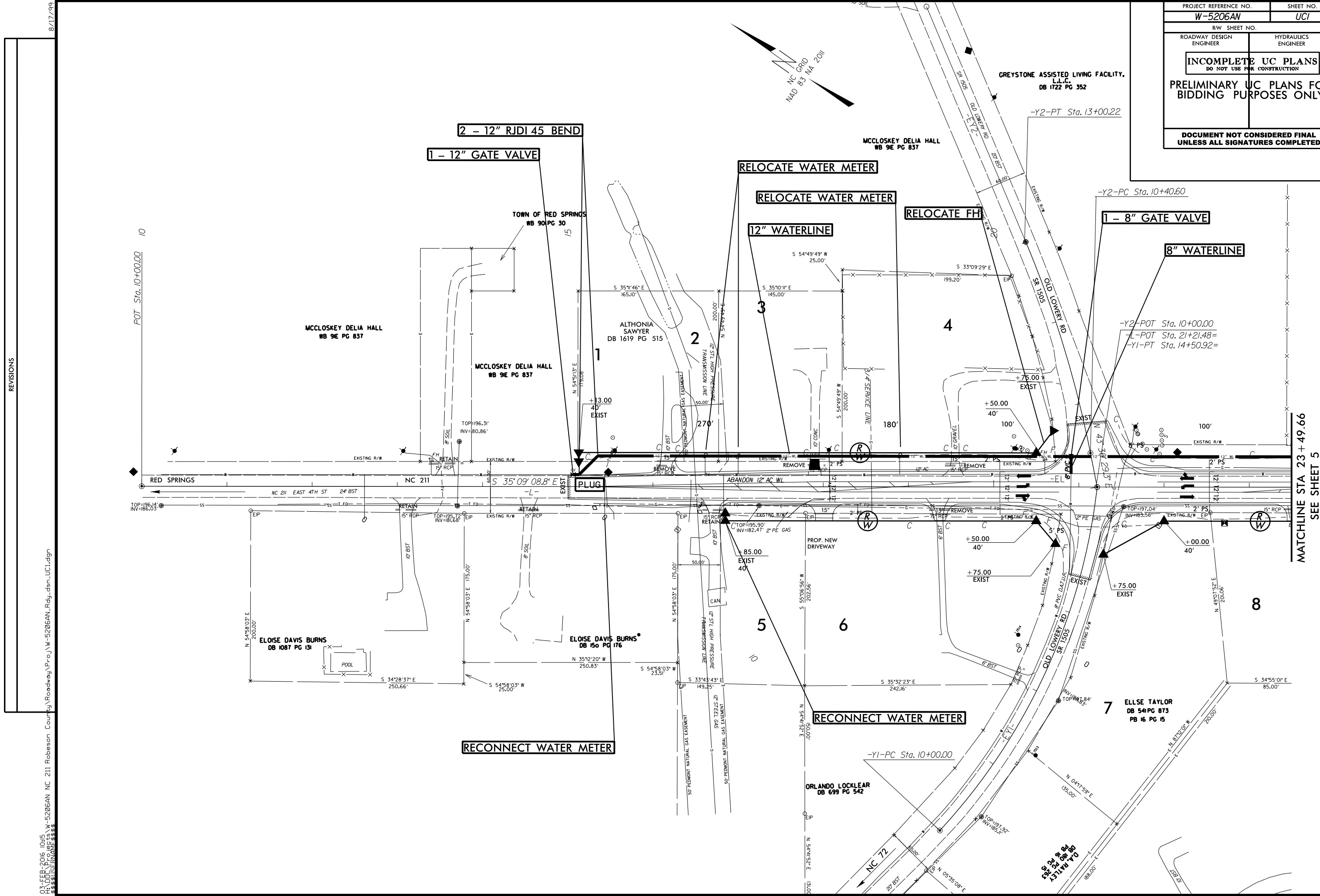








PROJECT REFERENCE NO.	SHEET NO.
W-5206AN	UCI
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE UC PLANS</b> DO NOT USE FOR CONSTRUCTION	
<b>PRELIMINARY UC PLANS FOR BIDDING PURPOSES ONLY</b>	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

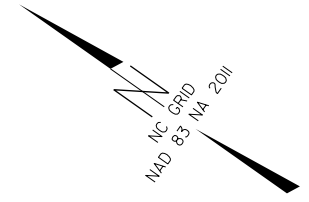


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MATCHLINE STA 23 + 49.66  
SEE SHEET 5

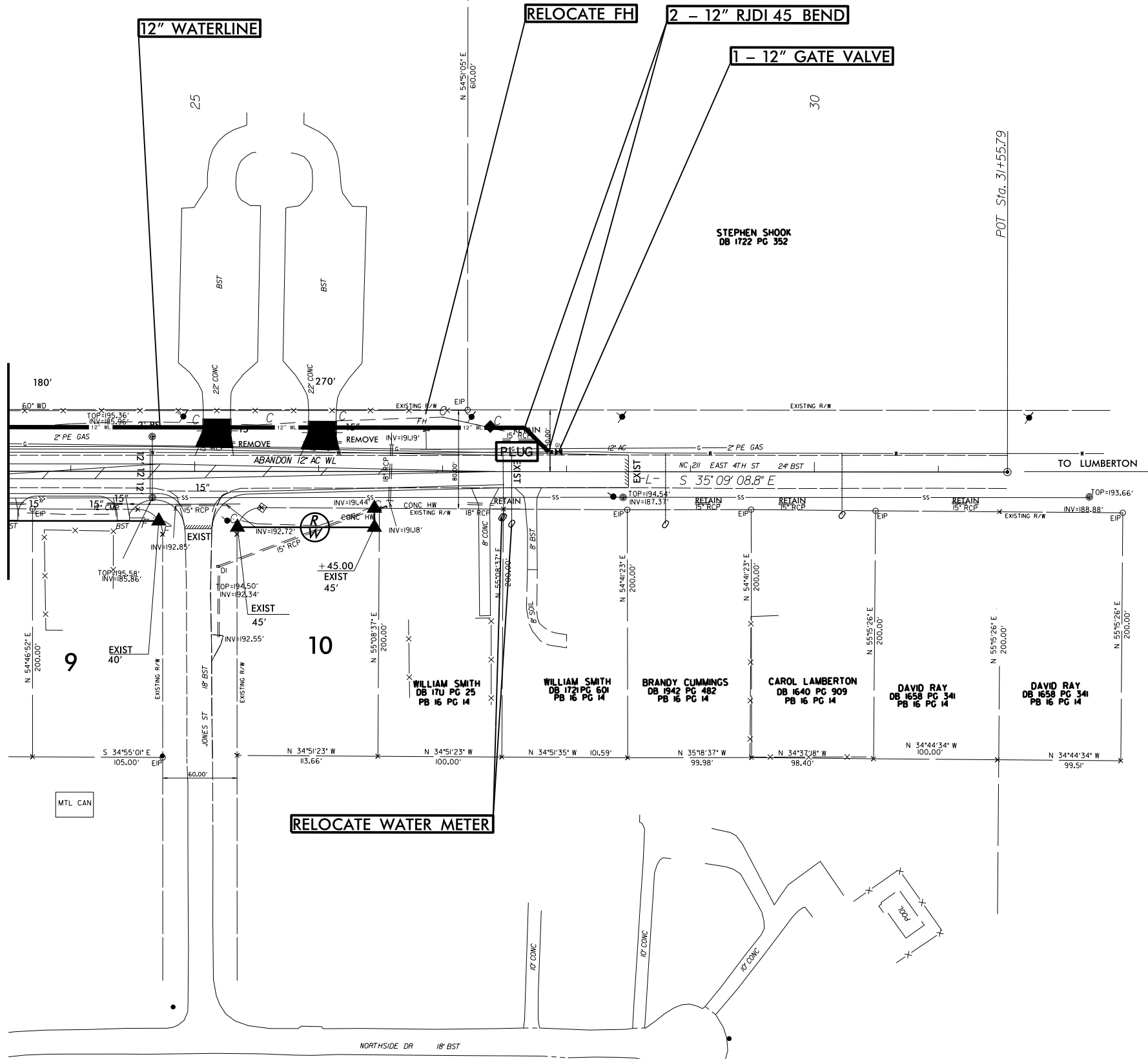
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE UC PLANS</b> DO NOT USE FOR CONSTRUCTION	
<b>PRELIMINARY UC PLANS FOR BIDDING PURPOSES ONLY</b>	
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8/17/99

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MATCHLINE STA 23 + 49.66  
SEE SHEET 5



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