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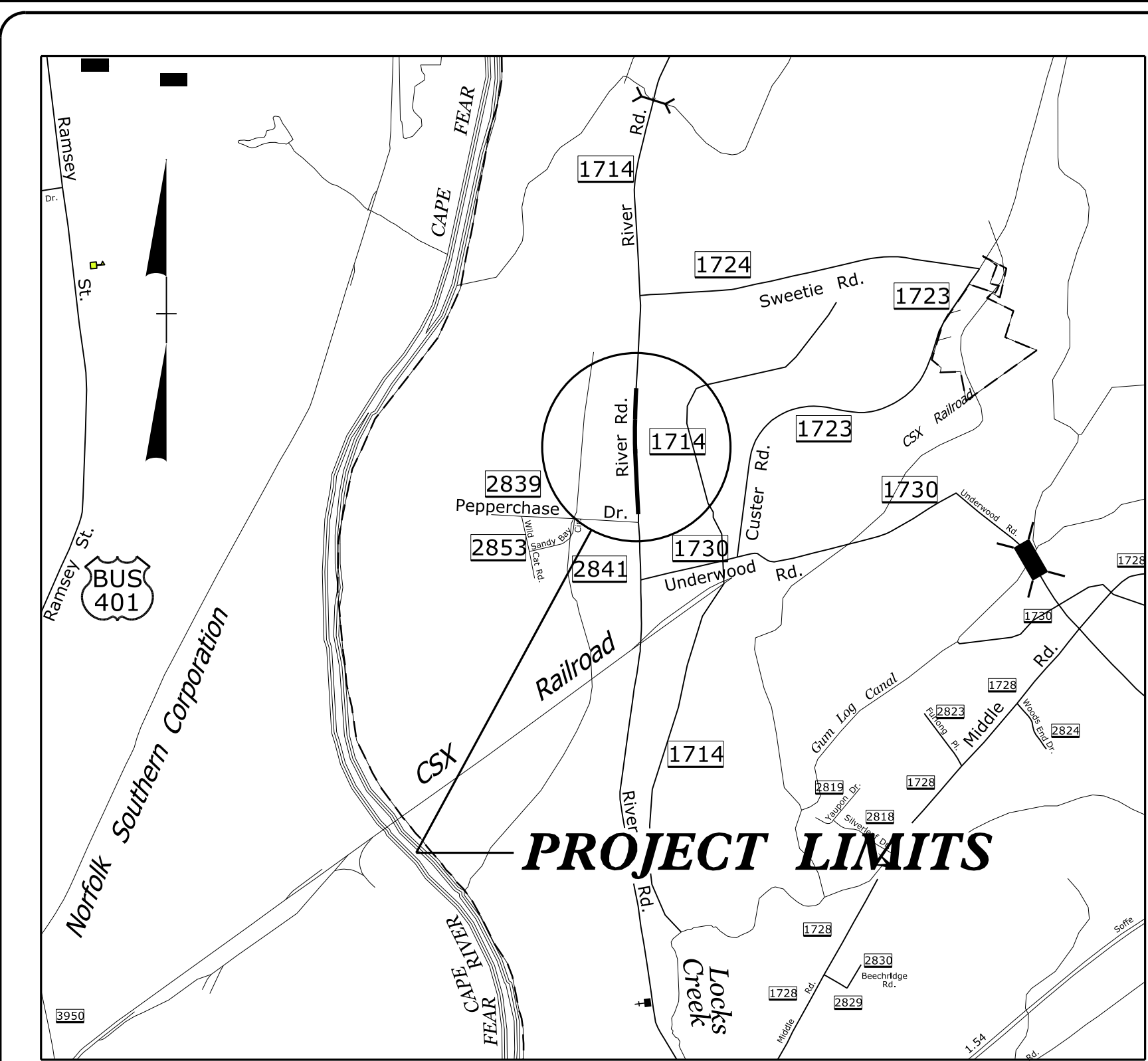
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04-MAY-2017 07:37
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09/08/99

CONTRACT: DF00171

WBS PROJECT: 44412



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

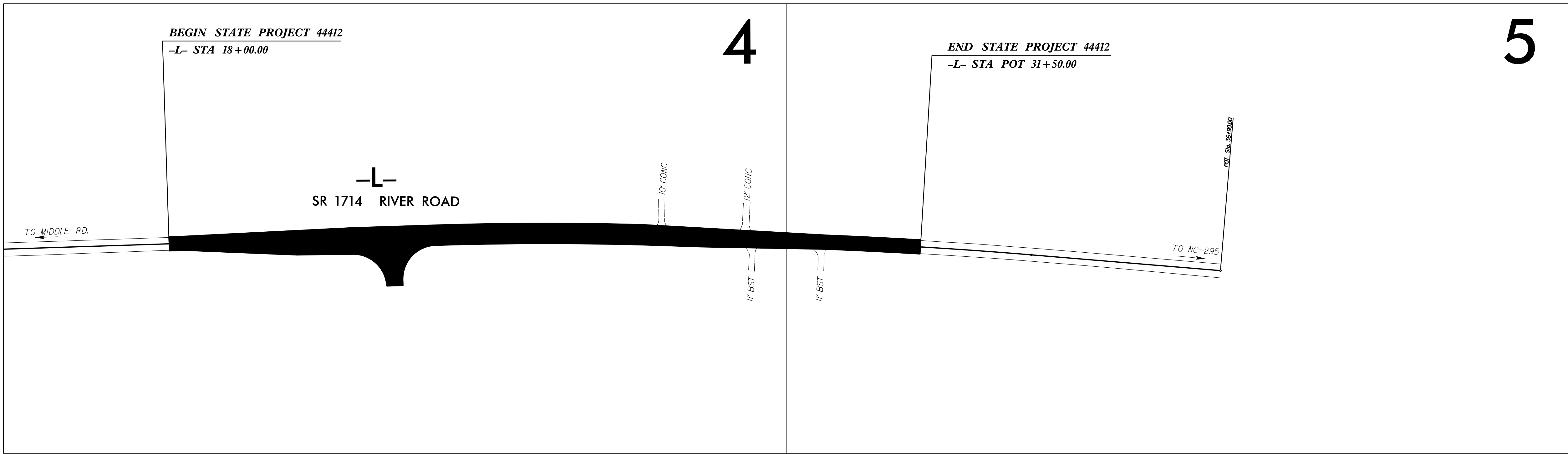
CUMBERLAND COUNTY

LOCATION: SR 1714 (RIVER ROAD) NEAR SR 1730 (UNDERWOOD ROAD)

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



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	44412	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44412		P.E.	
44412		ROW/UTIL	
44412		CONST.	



GRAPHIC SCALES

50 25 0 50 100

PLANS

50 25 0 50 100

PROFILE (HORIZONTAL)

5 2.5 0 5 10

PROFILE (VERTICAL)

DESIGN DATA

ADT 2016 = 2,334
ADT 2036 = 5,320
V = 55 MPH

PROJECT LENGTH

TOTAL LENGTH OF STATE PROJECT 44412 = 0.256 MI

Prepared in the Office of:
DIVISION OF HIGHWAYS
431 Transportation Dr., Fayetteville, NC 28301

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JULY 29, 2016

LETTING DATE:
JULY 19, 2017

SEAN MATUSZEWSKI
PROJECT ENGINEER

GLEENDA SNIVELY
PROJECT DESIGN ENGINEER

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	
Property Corner	
Property Monument	
Parcel/Sequence Number	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
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	
Well	
Small Mine	
Foundation	
Area Outline	
Cemetery	
Building	
School	
Church	
Dam	

HYDROLOGY:

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

RAILROADS:

Standard Gauge	
RR Signal Milepost	
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	
Proposed Right of Way Line with Iron Pin and Cap Marker	
Proposed Right of Way Line with Concrete or Granite R/W Marker	
Proposed Control of Access Line with Concrete C/A Marker	
Existing Control of Access	
Proposed Control of Access	
Existing Easement Line	
Proposed Temporary Construction Easement	
Proposed Temporary Drainage Easement	
Proposed Permanent Drainage Easement	
Proposed Permanent Drainage / Utility Easement	
Proposed Permanent Utility Easement	
Proposed Temporary Utility Easement	
Proposed Aerial Utility Easement	
Proposed Permanent Easement with Iron Pin and Cap Marker	

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill	
Proposed Curb Ramp	
Existing Metal Guardrail	
Proposed Guardrail	
Existing Cable Guiderail	
Proposed Cable Guiderail	
Equality Symbol	
Pavement Removal	
Single Tree	
Single Shrub	
Hedge	
Woods Line	

VEGETATION:

Orchard	
Vineyard	

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR:	
Head and End Wall	
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	
Storm Sewer Manhole	
Storm Sewer	

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.*)	
U/G Power Line LOS C (S.U.E.*)	
U/G Power Line LOS D (S.U.E.*)	

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.*)	
U/G Telephone Cable LOS C (S.U.E.*)	
U/G Telephone Cable LOS D (S.U.E.*)	
U/G Telephone Conduit LOS B (S.U.E.*)	
U/G Telephone Conduit LOS C (S.U.E.*)	
U/G Telephone Conduit LOS D (S.U.E.*)	
U/G Fiber Optics Cable LOS B (S.U.E.*)	
U/G Fiber Optics Cable LOS C (S.U.E.*)	
U/G Fiber Optics Cable LOS D (S.U.E.*)	

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	

TV:

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

GAS:

Gas Valve	
Gas Meter	
U/G Gas Line LOS B (S.U.E.*)	
U/G Gas Line LOS C (S.U.E.*)	
U/G Gas Line LOS D (S.U.E.*)	
Above Ground Gas Line	

SANITARY SEWER:

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

MISCELLANEOUS:

Utility Pole	
Utility Pole with Base	
Utility Located Object	
Utility Traffic Signal Box	
Utility Unknown U/G Line LOS B (S.U.E.*)	
U/G Tank; Water, Gas, Oil	
Underground Storage Tank, Approx. Loc.	
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
20-APR-2017 14:07
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15:43:53

PROJECT REFERENCE NO.

44412

SHEET NO.

2

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
T	EARTH MATERIAL
U	EXISTING PAVEMENT

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

TRANSITION FROM EXISTING TO TYPICAL NO. 1

-L-STA. 18 + 00.00 TO -L-STA. 22 + 77.87

TYPICAL SECTION NO. 1

-L- STA. 22 + 77.87 TO 26 + 48.96

*3' SHOULDER -L-LT STA. 24 + 50.00 & 25 + 50.00

TRANSITION FROM TYPICAL NO. 1 TO EXISTING

-L-STA. 26 + 48.96 TO -L-STA. 31 + 50.00

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.

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 and 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 1" 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. Channelizing devices in work areas shall be spaced not greater than 50' on center in tangent areas, 45' on center in tapers, and 10' on center in radii, and shall be set 3' off the edge of travelway, unless otherwise indicated on plans.

10. Contractor to install Erosion Control devices as directed by the Engineer.

11. Contractor shall coordinate with the Division Six Traffic Services Unit (910-486-1452) for placement of all pavement markings and signs.

12. Pedestrian signs on RRFB's will be paid for under Signs for Signals.

13. All right of way is to be monumented upon completion of project and will be paid for under construction surveying.

CONTRACTOR SHALL COORDINATE WITH LOCAL TRAFFIC SERVICES UNIT FOR PROPOSED SIGNAL DESIGN AND PLACEMENT OF ALL PAVEMENT MARKINGS.

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

SUMMARY OF EARTHWORK

IN CUBIC YARDS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATION STATION		EXCAVATION					EMBANKMENT				BORROW	WASTE			
		TOTAL UNCL. EXCAV.	ROCK	UNDER-CUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. (+) 25%		ROCK	SUITABLE	UNSUIT.	TOTAL
18 + 00 (-L-)	31 + 50 (-L-)	250				250	600		600	750	500				
TOTALS		250				250	600		600	750	500				
EST. 5% TO REPLACE SOIL ON BORROW PIT											25				
GRAND TOTALS						250	600		600	750	525				
SAY											525				

Note: Approximate quantities only. Unclassified Excavation, Fine Grading and Clearing and Grubbing will be paid for at the contract lump sum price for "Grading" according to Standard Specifications Section 226.

8/17/99

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\$\$\$\$\$SERIAL\$\$\$\$\$

REVISIONS

MATCHLINE STA 29+00
SEE SHEET 4

WILLIAM D MURPHY SR & WF SHIRLEY W
DB 3006 PG 73
PB 104 PG 133

ELTON W. LONG & WF TONETTE M.
DB 5517 PG 332
PB 104 PG 133

BL-4
N 489,824.5850
E 2,045,391.3060
ELEV 91.02
STA 29+40.98
25.01' LT -L-

GILBERT SMITH FAMILY LLC
DB 6880 PG 183

END STATE PROJECT 44412
-L- STA POT 31+50.00

BL-5
N 490,236.8367
E 2,045,423.1589
ELEV 90.25
STA 34+82.20
16.41' LT -L-

EX HOME
+91.25
45.00 LT
R/W

CITY OF
FAYETTEVILLE
DB 6490 PG 136

+89.93
EX. RW

20' DRWY
TURNOUT

RETAIN

30' DRWY
TURNOUT

HOME
+79.20
GILBERT SMITH FAMILY LLC
DB 6880 PG 183
DB 2175 PG 535

CITY OF
FAYETTEVILLE
DB 6490 PG 136

NATHANIEL GIENGER
DB 9128 PG 223
PB 132 PG 80

PT STA 33+49.47

POT STA. 36+90.00



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "CARGILL-1" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 487965.2850(±) EASTING: 2045447.5340(±) ELEVATION: 89.4200(±)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999877335

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CARGILL-1" TO -L- STATION 18+00 IS S 7°06'48" E 210.96'

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

PROJECT REFERENCE NO.

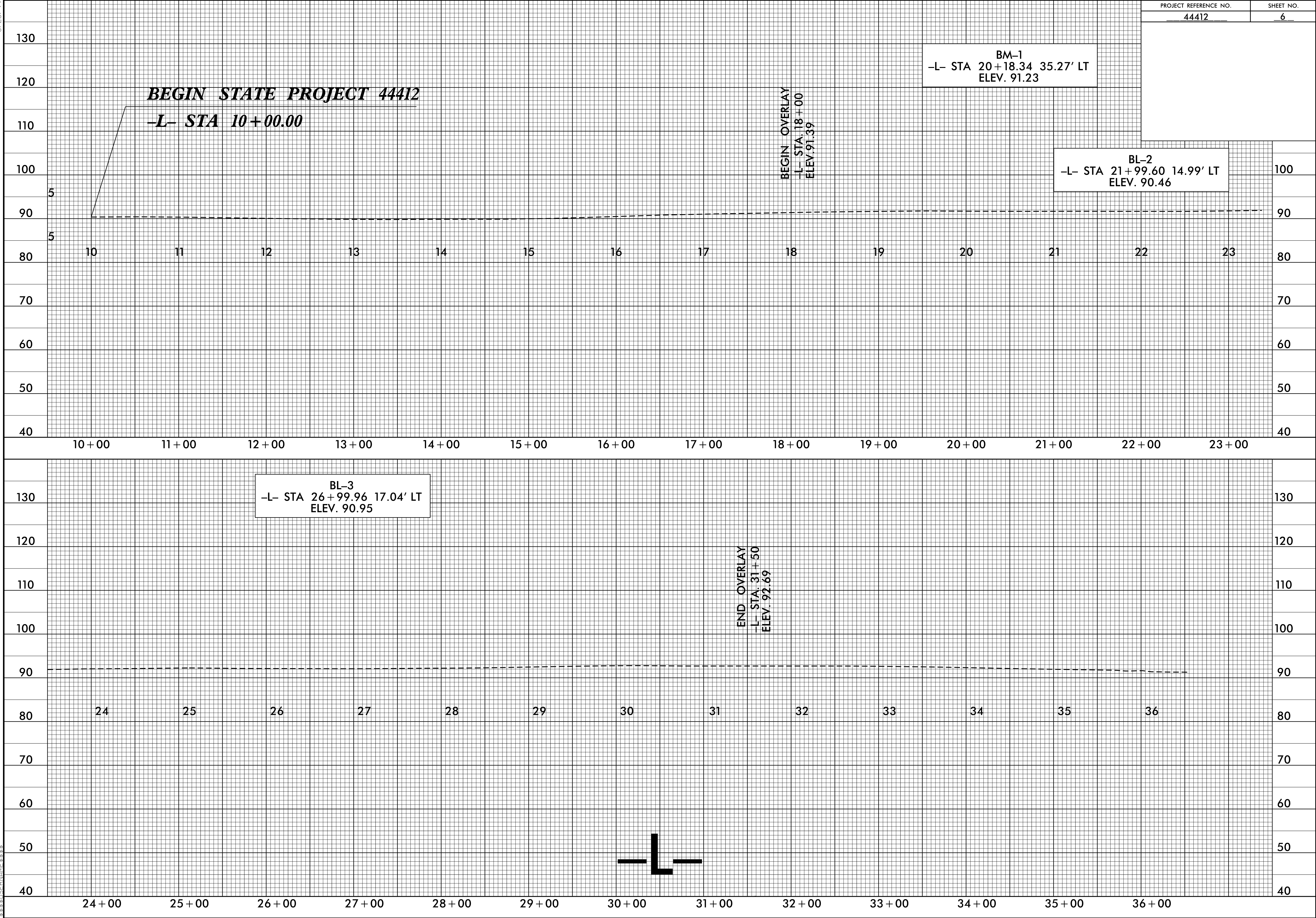
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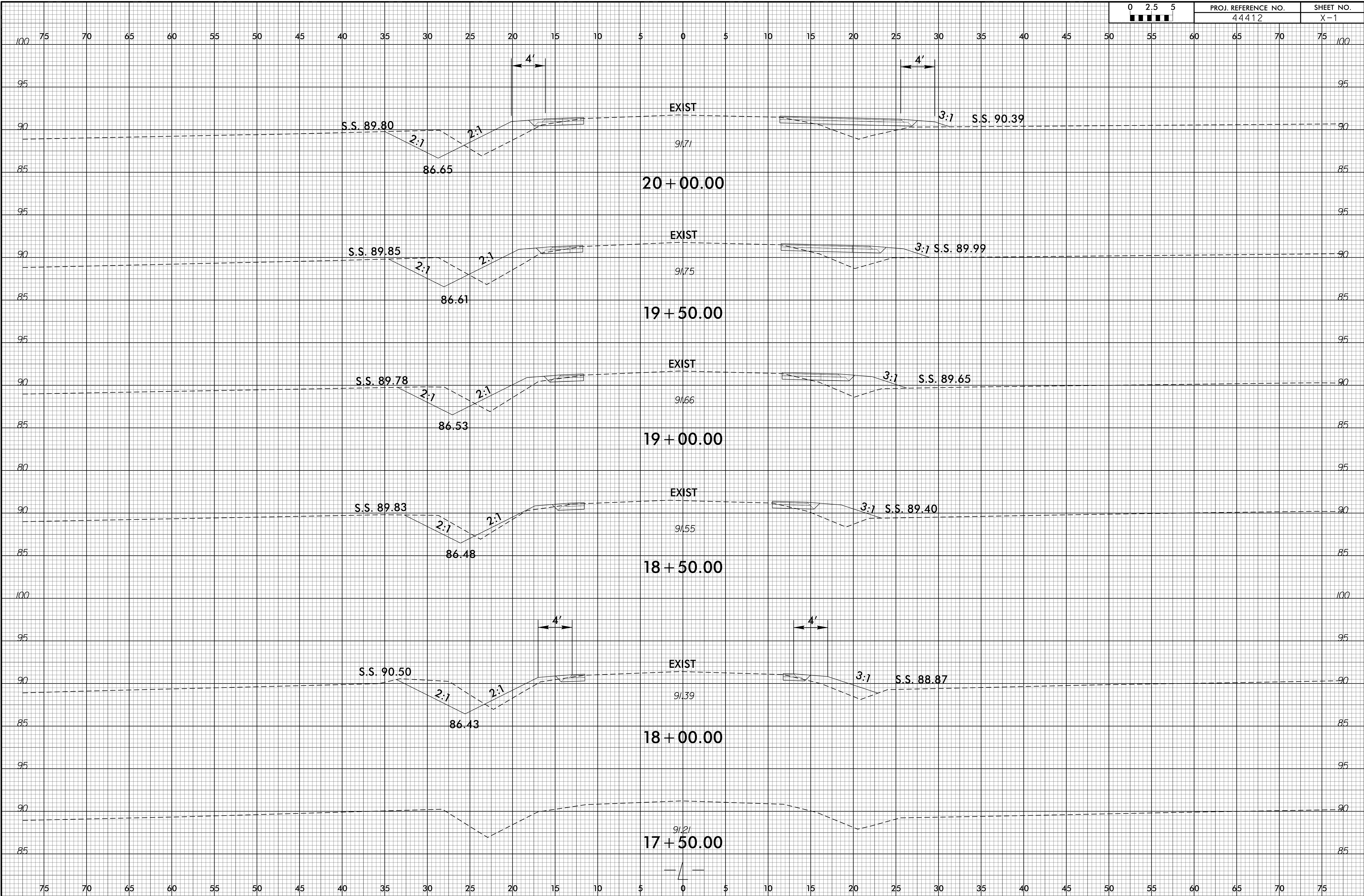
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5/28/99

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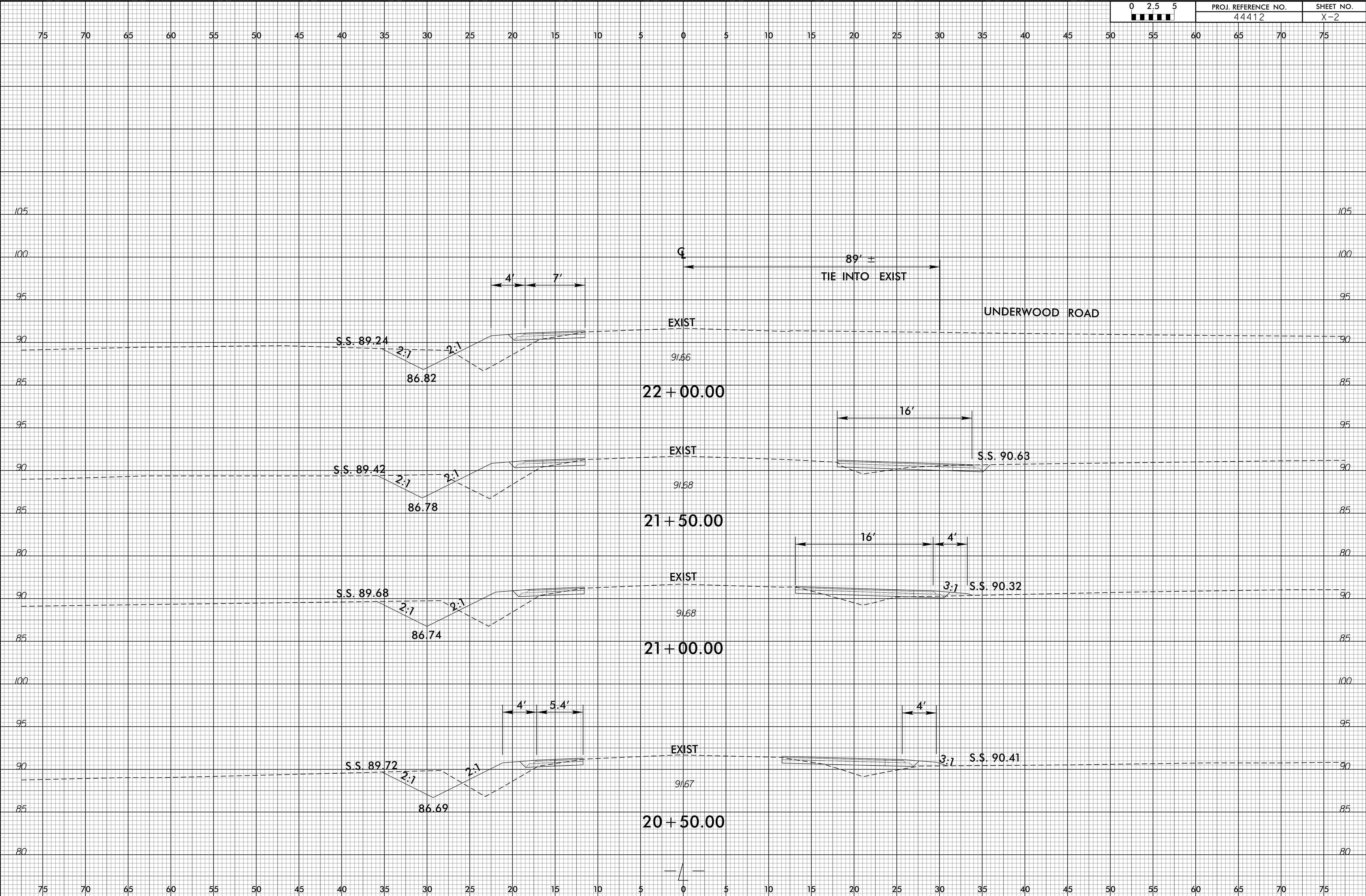




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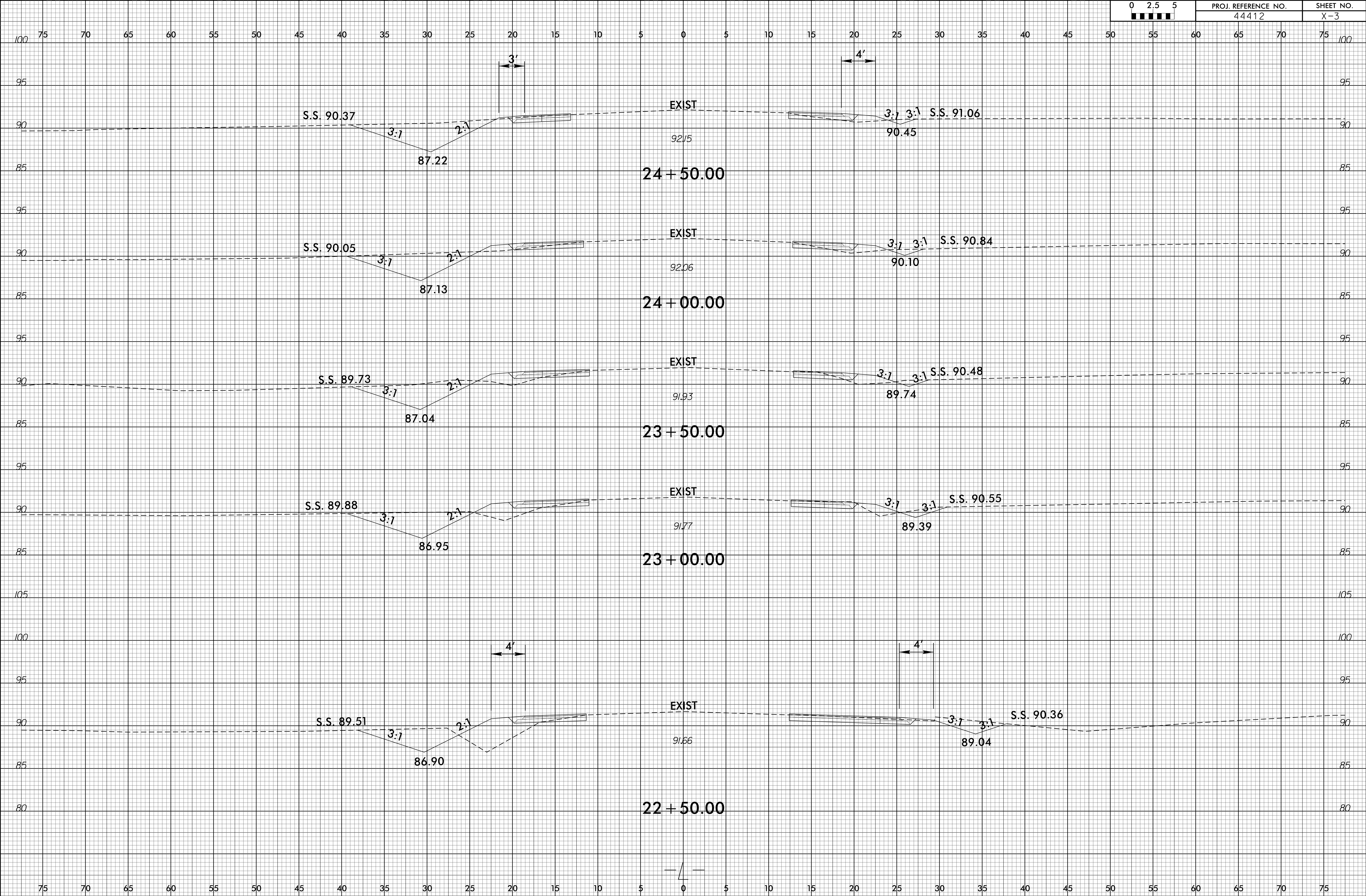
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