

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

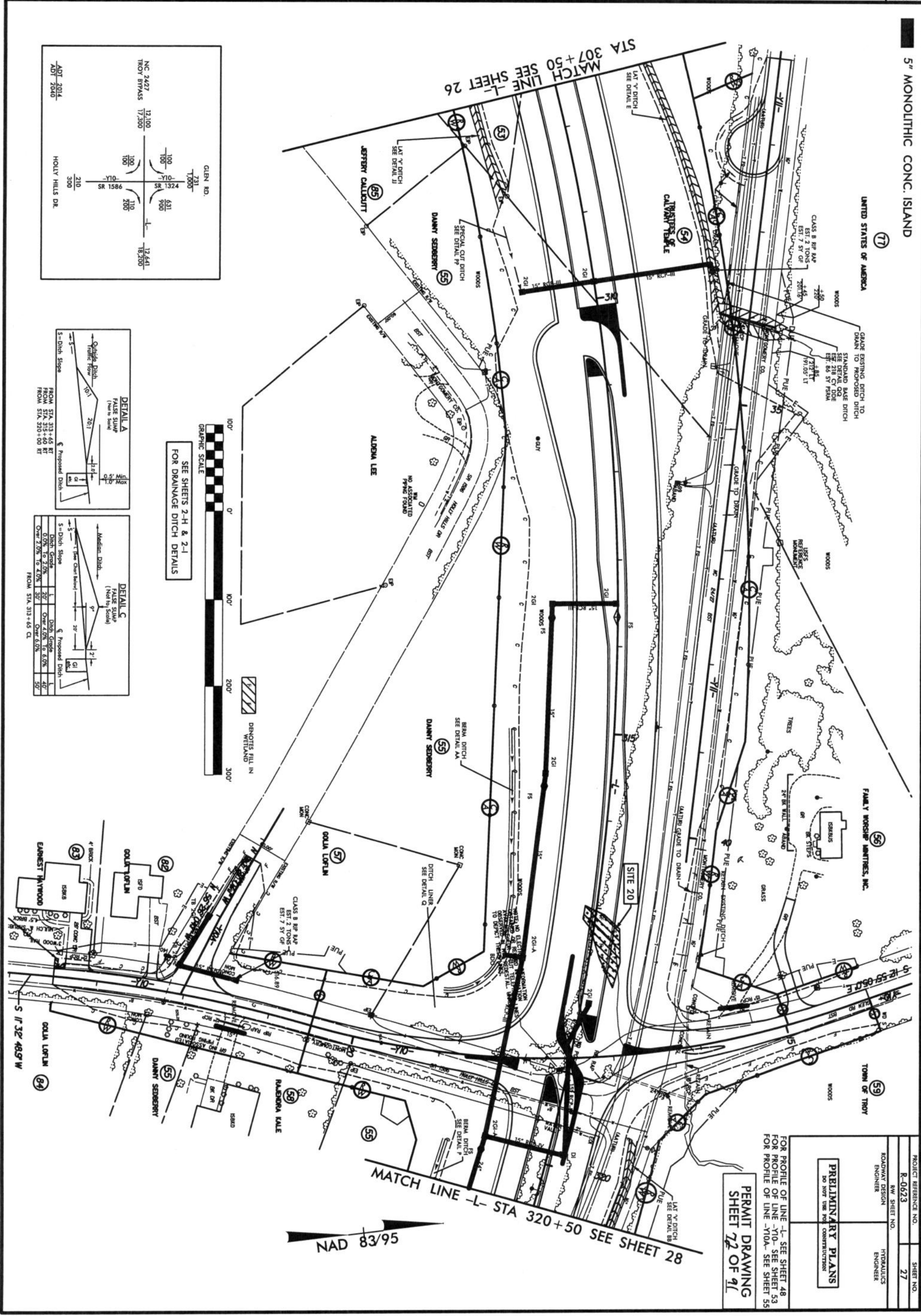
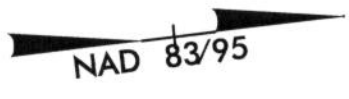
PERMIT DRAWING
SHEET 72 OF 91

FOR PROFILE OF LINE -1- SEE SHEET 48
FOR PROFILE OF LINE -10- SEE SHEET 33
FOR PROFILE OF LINE -10A- SEE SHEET 35

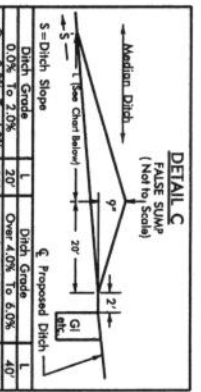
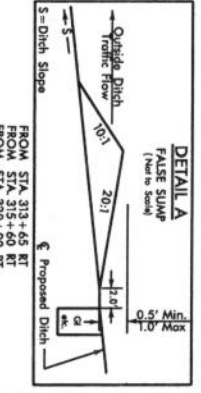
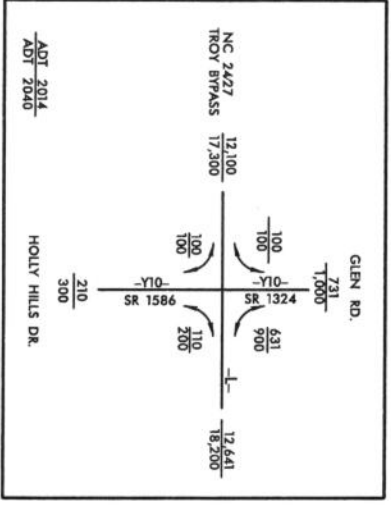
REVISIONS

MATCH LINE -L- STA 307+50 SEE SHEET 26

MATCH LINE -L- STA 320+50 SEE SHEET 28



GRAPHIC SCALE
SEE SHEETS 2-H & 2-I
FOR DRAINAGE DITCH DETAILS

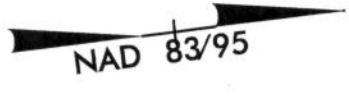


FOR PROFILE OF LINE -L- SEE SHEET 48
 FOR PROFILE OF LINE -Y10- SEE SHEET 53
 FOR PROFILE OF LINE -Y10A- SEE SHEET 55
PERMIT DRAWING
SHEET 73 OF 91

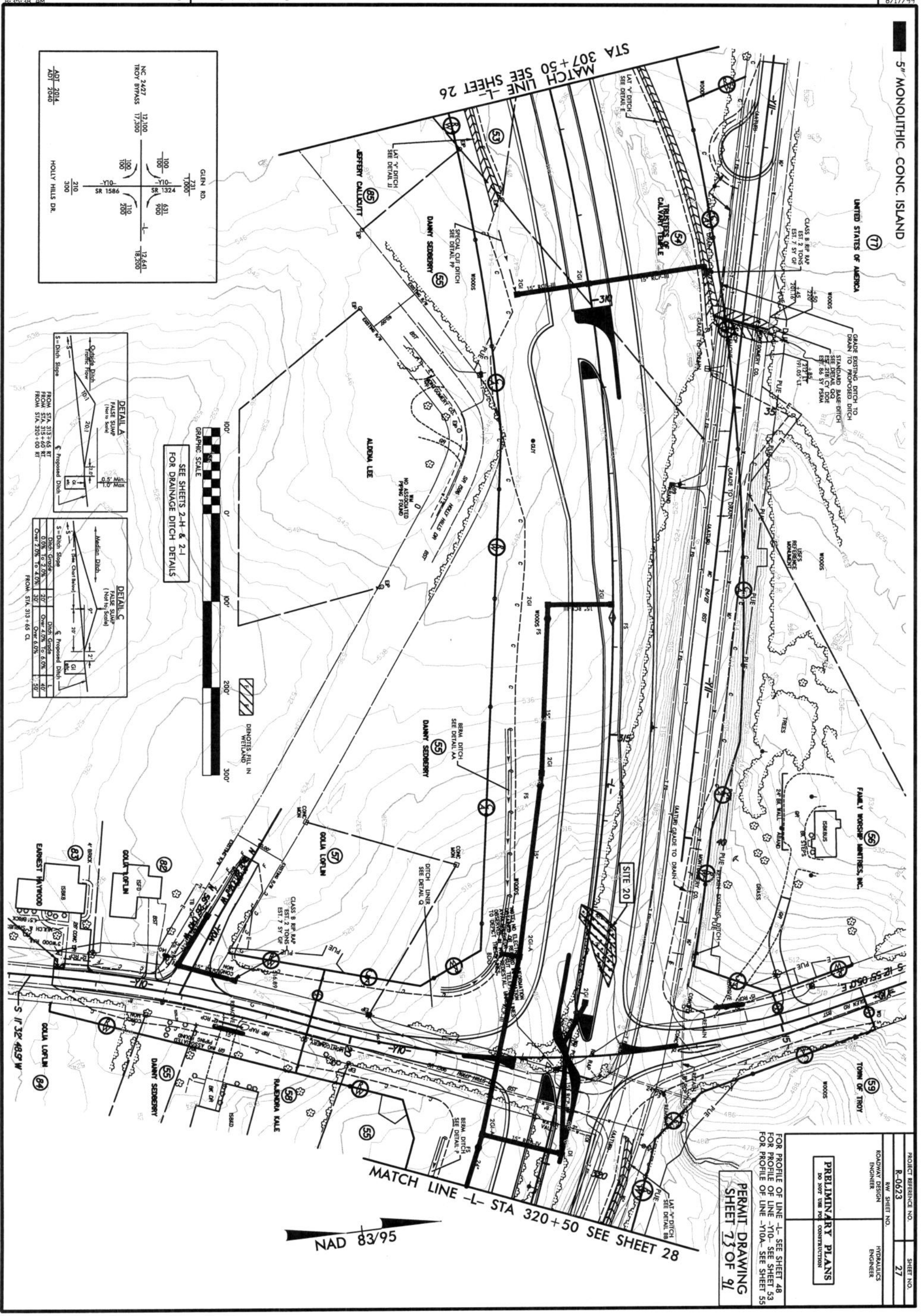
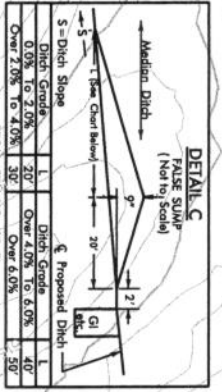
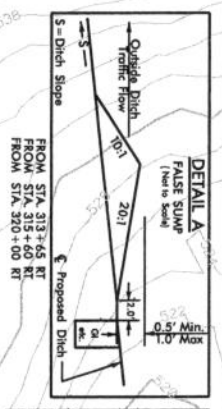
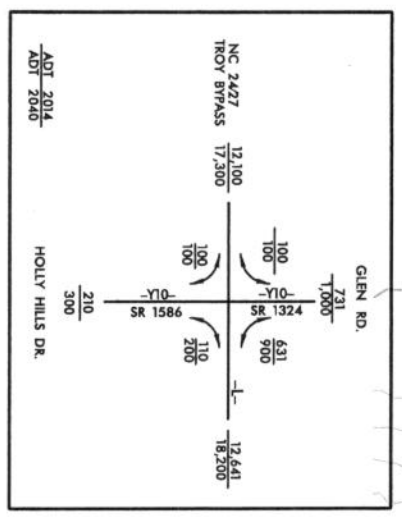
REVISIONS

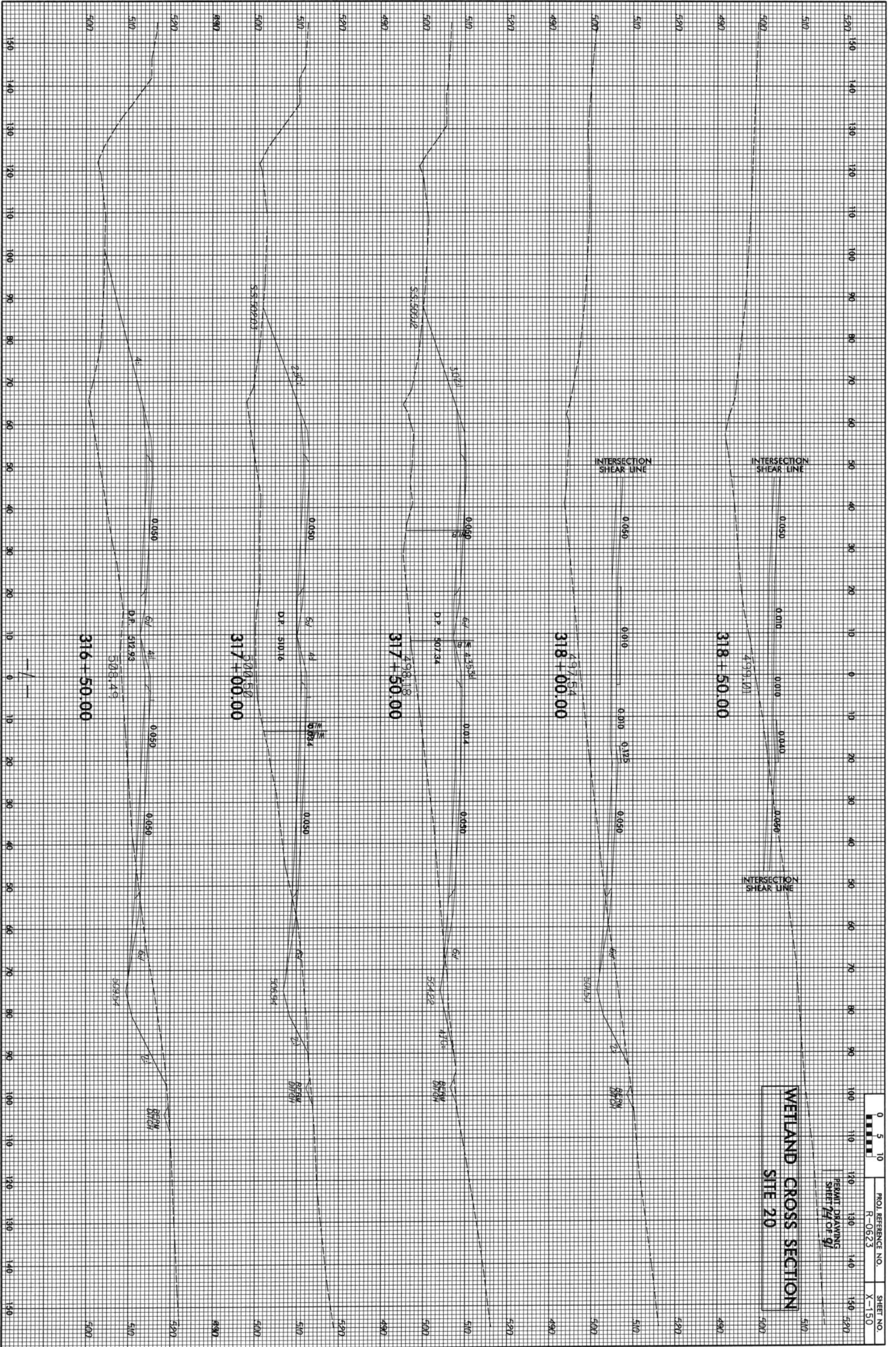
MATCH LINE -L- STA 307+50 SEE SHEET 26

MATCH LINE -L- STA 320+50 SEE SHEET 28



GRAPHIC SCALE
 SEE SHEETS 2-H & 2-I
 FOR DRAINAGE DITCH DETAILS

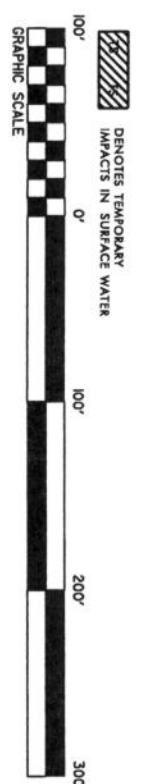
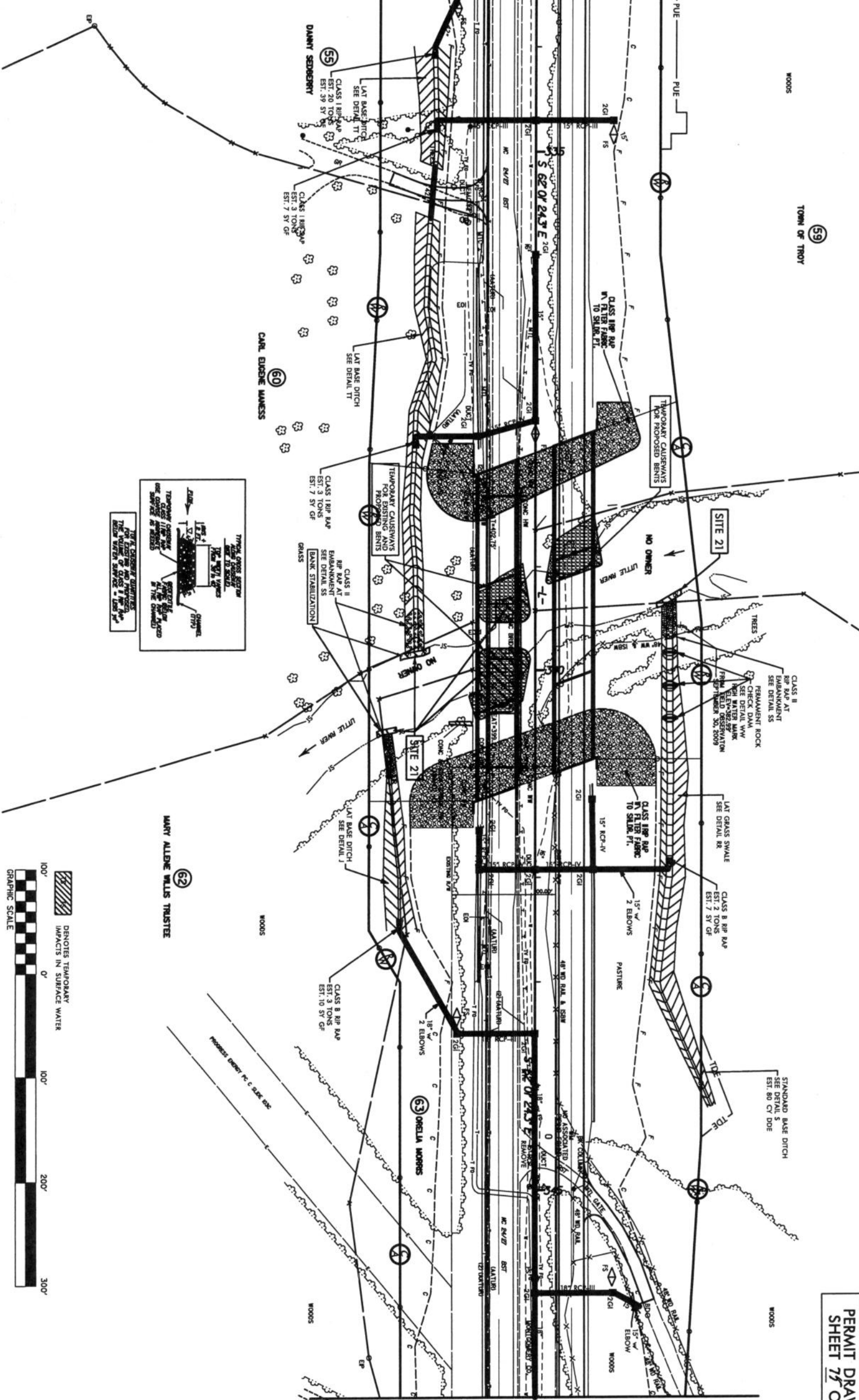
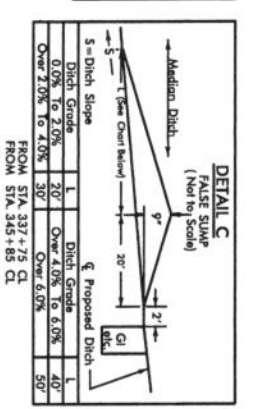
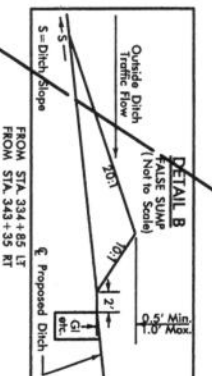
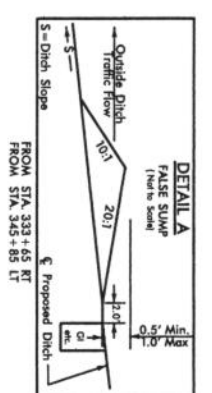
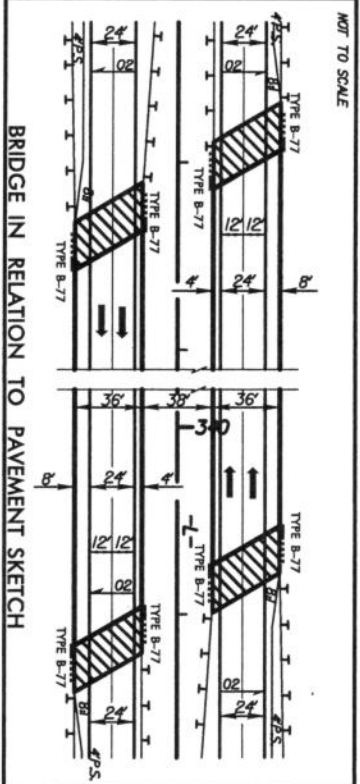




REVISIONS

MATCH LINE -L- STA 333+50 SEE SHEET 28

MATCH LINE -L- STA 347+00 SEE SHEET 30



PROJECT REFERENCE NO. R-0623 SHEET NO. 29

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

PRELIMINARY PLANS

NO NOT FOR CONSTRUCTION

FOR PROFILE OF LINE -L- SEE SHEET 49

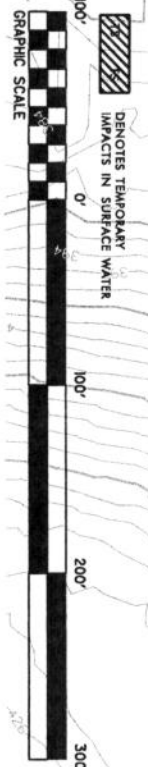
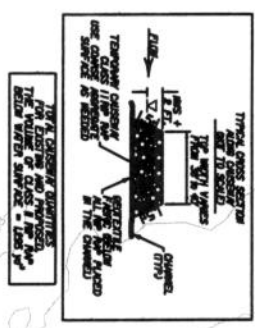
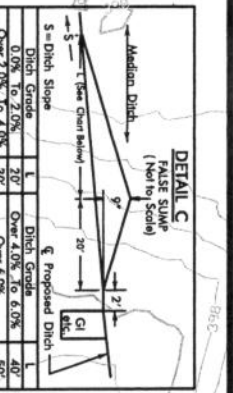
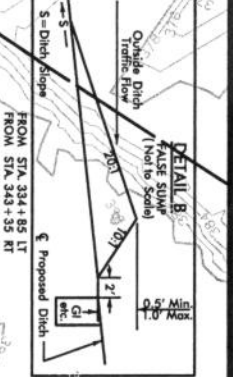
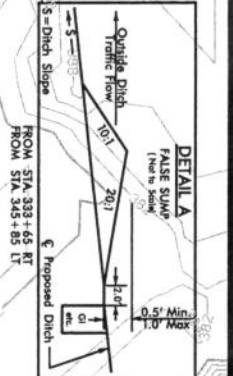
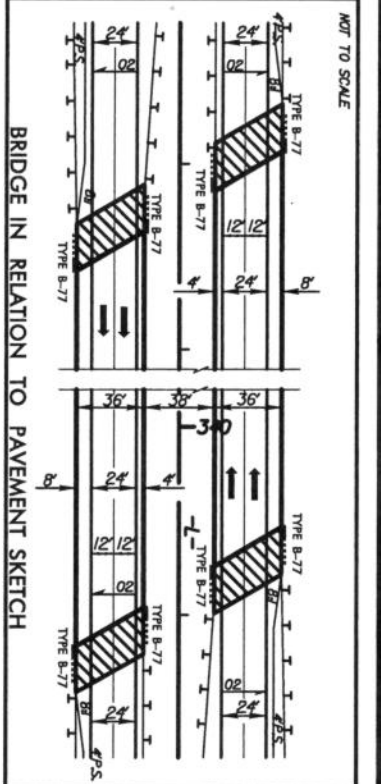
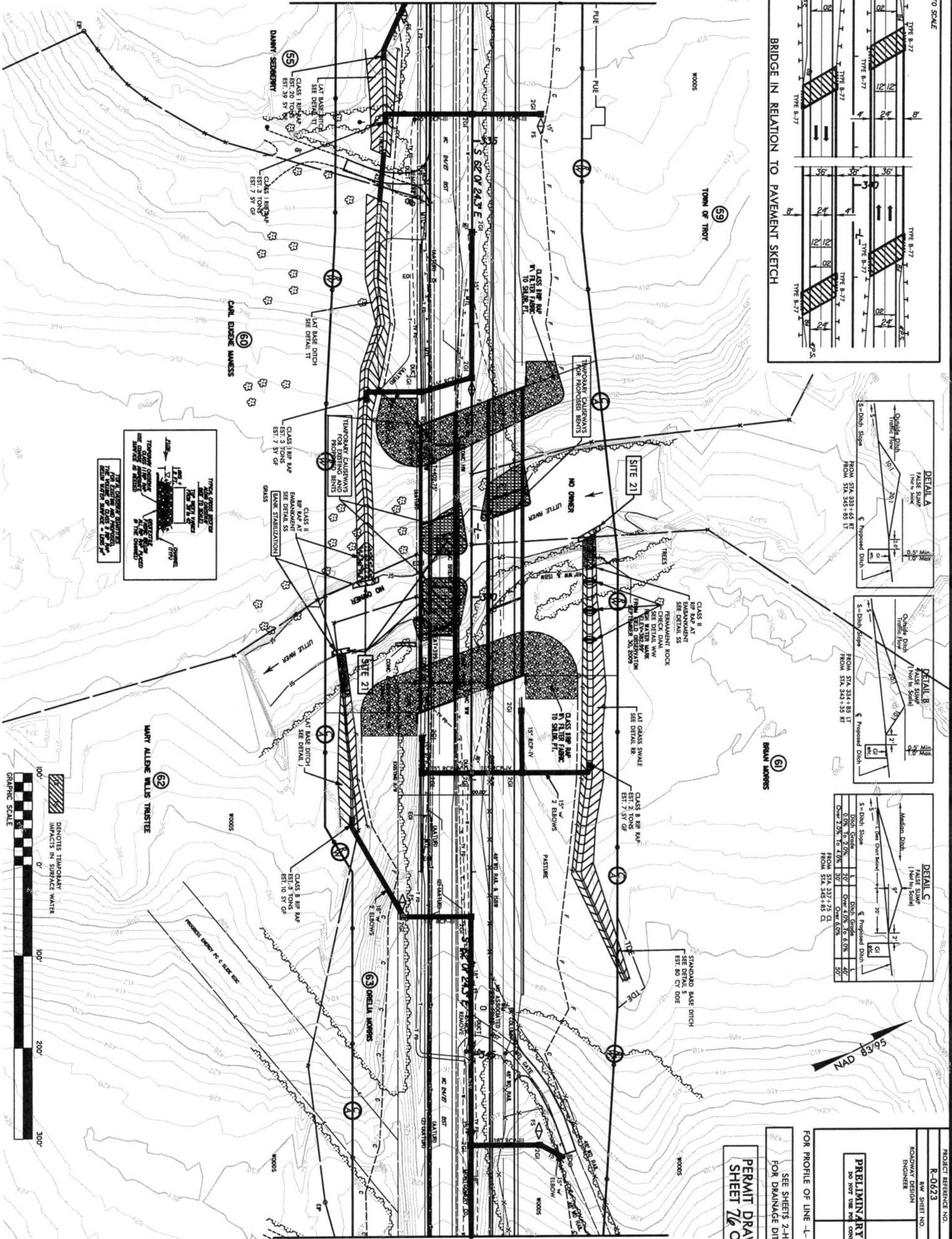
SEE SHEETS 2-H & 2-I FOR DRAINAGE DITCH DETAILS

PERMIT DRAWING SHEET 7 OF 9

REVISIONS

MATCH LINE -L- STA 333+50 SEE SHEET 28

MATCH LINE -L- STA 347+00 SEE SHEET 30



PROJECT REFERENCE NO. R-0623

SHEET NO. 29

RAW SHEET NO. ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

PRELIMINARY PLANS
 DO NOT USE FOR CONSTRUCTION

FOR PROFILE OF LINE -L- SEE SHEET 49

SEE SHEETS 2-H & 2-I FOR DRAINAGE DITCH DETAILS

PERMIT DRAWING
 SHEET 76 OF 91

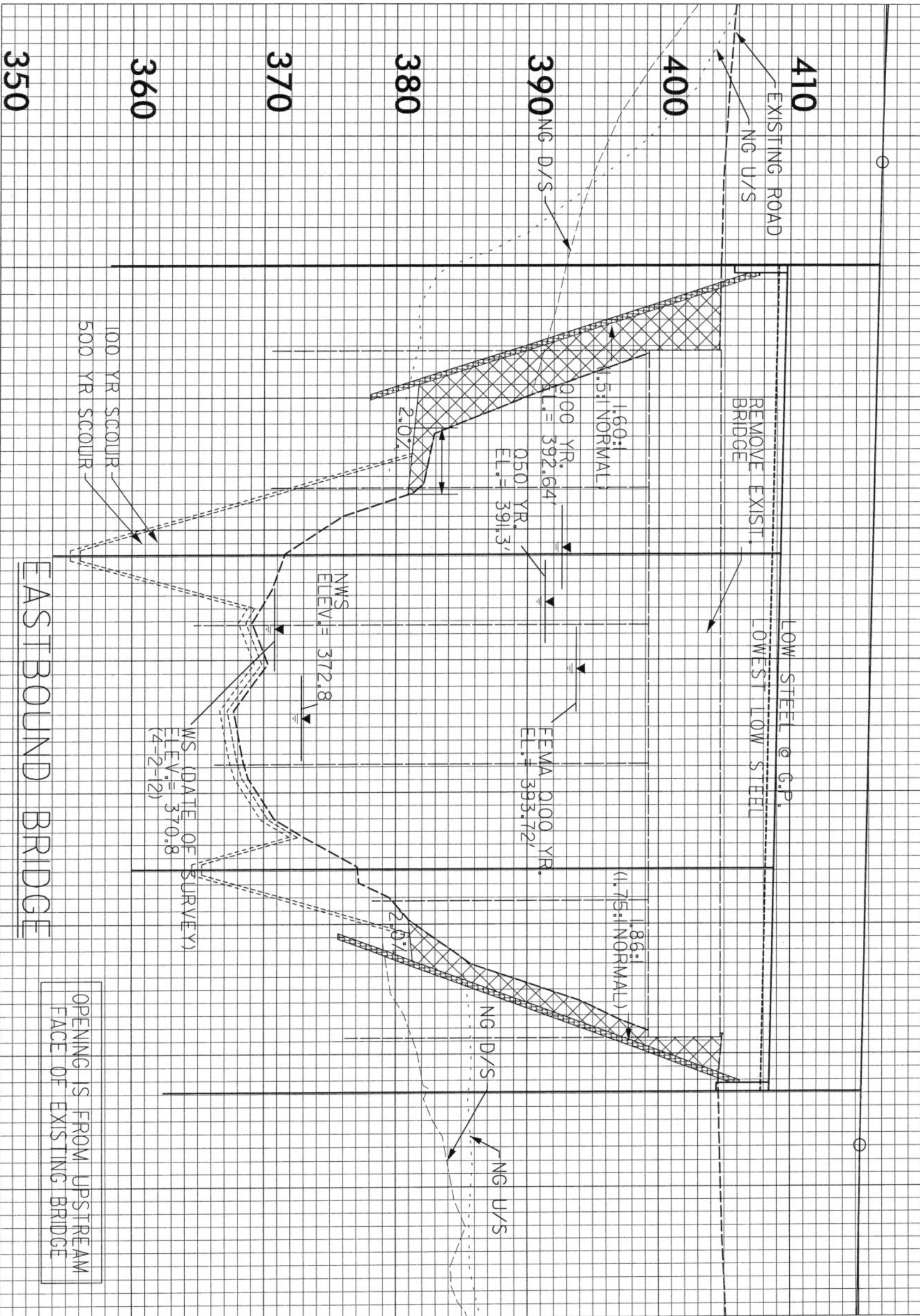
338 + 00

339 + 00

340 + 00

341 + 00

PERMIT DRAWING
SHEET 77 OF 91



410

EXISTING ROAD

EXISTING U/S

400

390

NG D/S

380

370

360

350

REMOVE EXIST. BRIDGE

LOW STEEL @ G.P.
LOWEST LOW STEEL

1.60:1
1.5:1 (NORMAL)

100 YR.
EL. = 392.64'

500 YR.
EL. = 391.3'

FEMA 1000 YR.
EL. = 393.72'

1.86:1
1.75:1 (NORMAL)

2.0:1
2.0%

NWS
ELEV. = 372.8

MS (DATE OF SURVEY)
ELEV. = 370.8
(4-2-12)

NG D/S

NG U/S

EASTBOUND BRIDGE

OPENING IS FROM UPSTREAM
FACE OF EXISTING BRIDGE

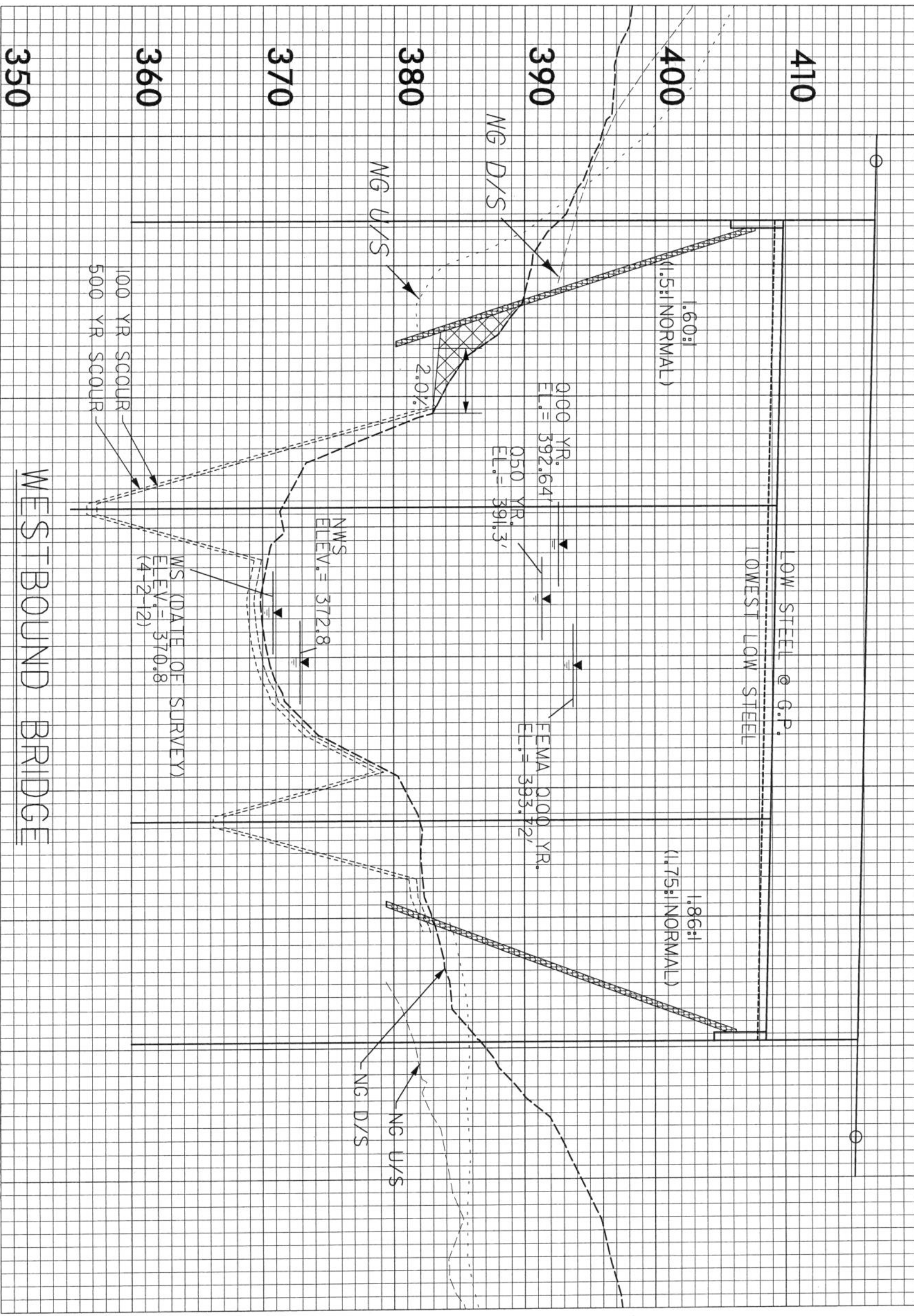
338+00

339+00

340+00

341+00

PERMIT DRAWING
SHEET 76 OF 91



410

400

390

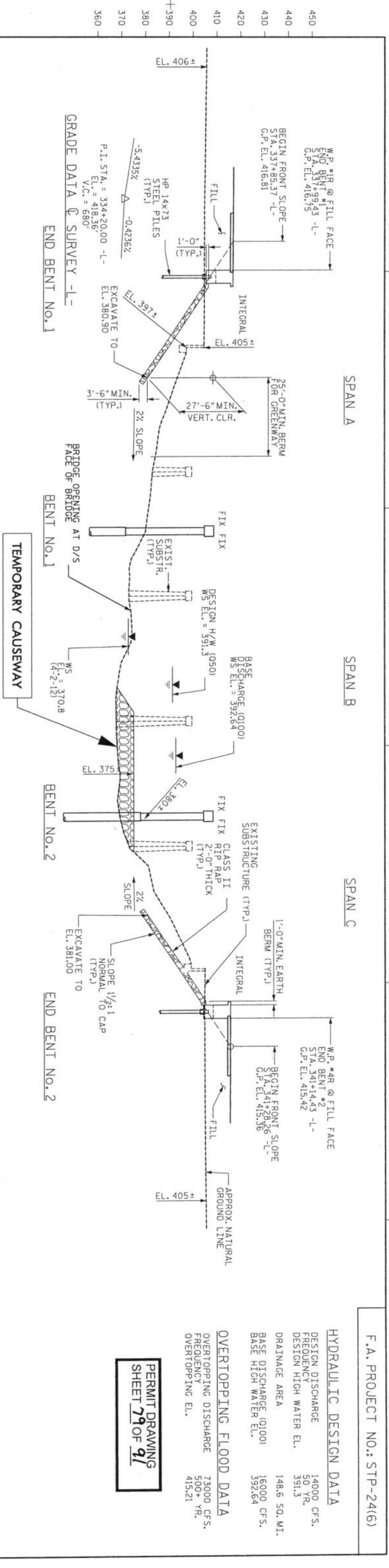
380

370

360

350

WESTBOUND BRIDGE



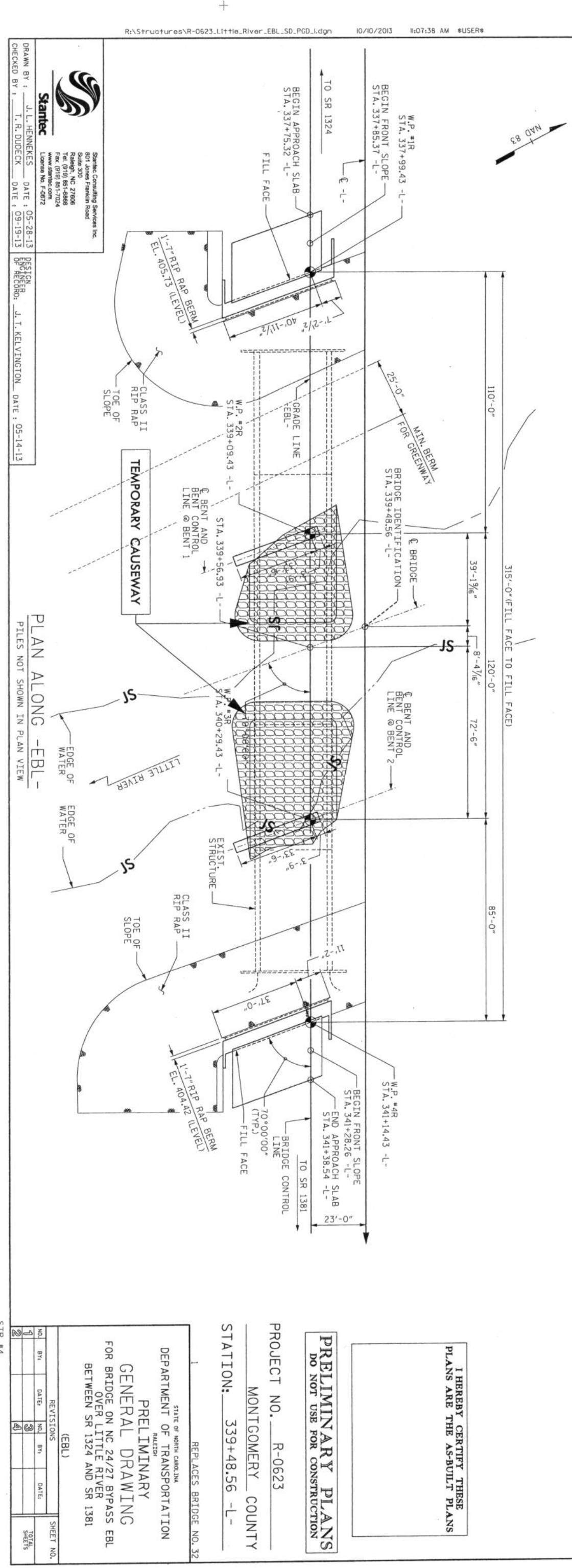
SECTION ALONG GRADE LINE -EBL-

SECTIONS @ BENTS AND END BENTS ARE @ RIGHT ANGLES

HYDRAULIC DESIGN DATA	
DESIGN DISCHARGE	14000 CFS.
FREQUENCY	50 YR.
DESIGN HIGH WATER EL.	391.3
DRAINAGE AREA	148.6 SQ. MI.
BASE DISCHARGE (0100)	16000 CFS.
BASE HIGH WATER EL.	392.64
OVERTOPPING FLOOD DATA	
OVERTOPPING DISCHARGE	7300 CFS.
FREQUENCY	500+ YR.
OVERTOPPING EL.	415.21

PERMIT DRAWING
SHEET **79** OF **91**

NOTES:
BENTS AND END BENTS ARE PARALLEL.



I HEREBY CERTIFY THESE PLANS ARE THE AS-BUILT PLANS

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PROJECT NO. R-0623
MONTGOMERY COUNTY
STATION: 339+48.56 -L-

REPLACES BRIDGE NO. 32

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

PRELIMINARY GENERAL DRAWING
FOR BRIDGE ON NC 24/27 BYPASS EBL
OVER LITTLE RIVER
BETWEEN SR 1324 AND SR 1381
(EBL)

NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

SHEET NO. _____
TOTAL SHEETS _____

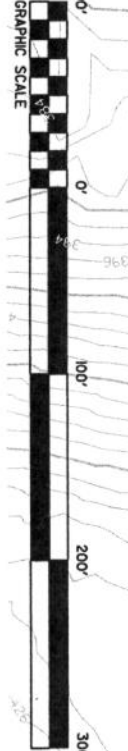
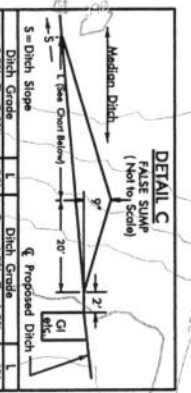
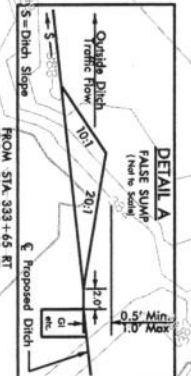
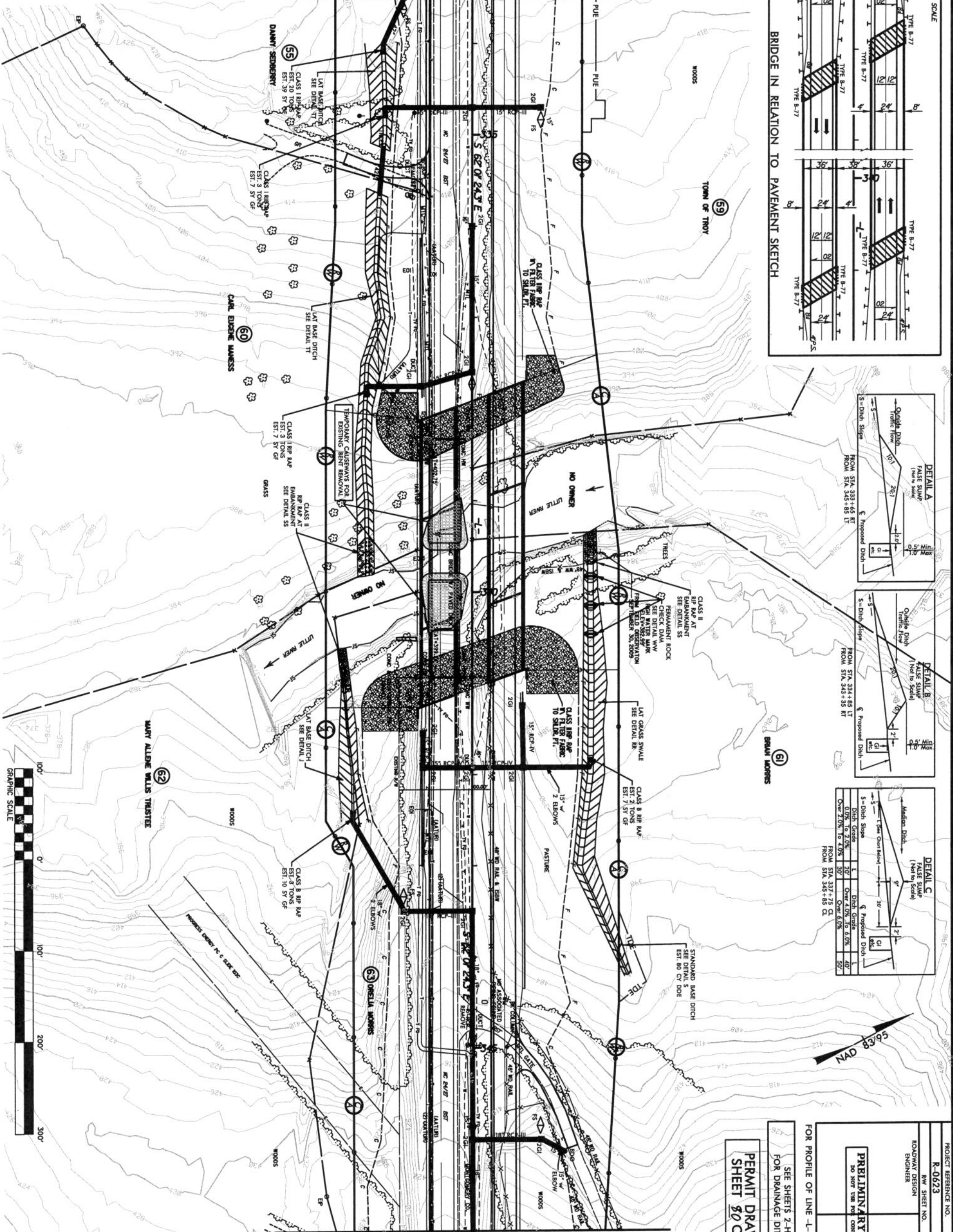
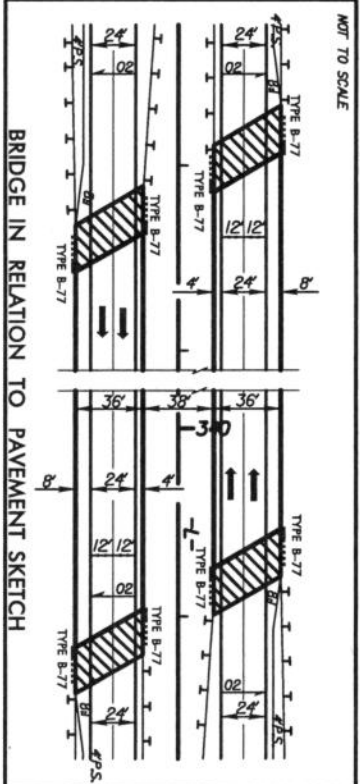
Stantec
801 Jones Franklin Road
Suite 300
Raleigh, NC 27606
Phone: (919) 486-4400
Fax: (919) 851-7024
www.stantec.com
License No. F4072

Drawn by: J.L. HENNEKES DATE: 05-28-13
Checked by: T.R. DUDECK DATE: 09-19-13

DESIGNER: J.T. KELVINGTON DATE: 05-14-13
DATE REVISION: 09/19/13

REVISIONS

MATCH LINE -L- STA 333+50 SEE SHEET 28



MATCH LINE -L- STA 347+00 SEE SHEET 30

PROJECT REFERENCE NO. R-0623 SHEET NO. 29

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

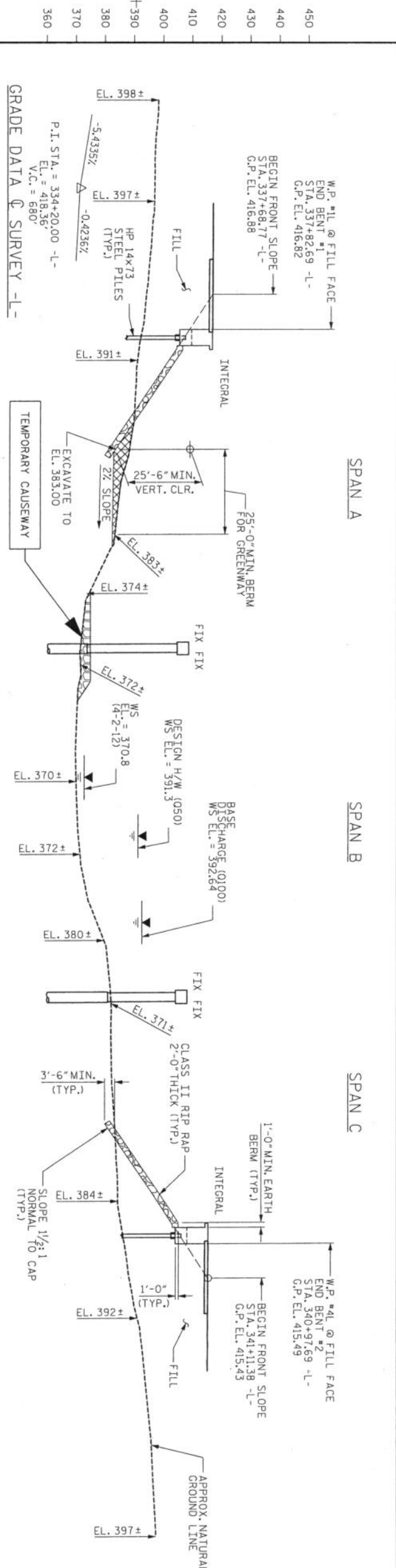
PRELIMINARY PLANS
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FOR PROFILE OF LINE -L- SEE SHEET 49

SEE SHEETS 2-H & 2-I FOR DRAINAGE DITCH DETAILS

PERMIT DRAWING SHEET 90 OF 91

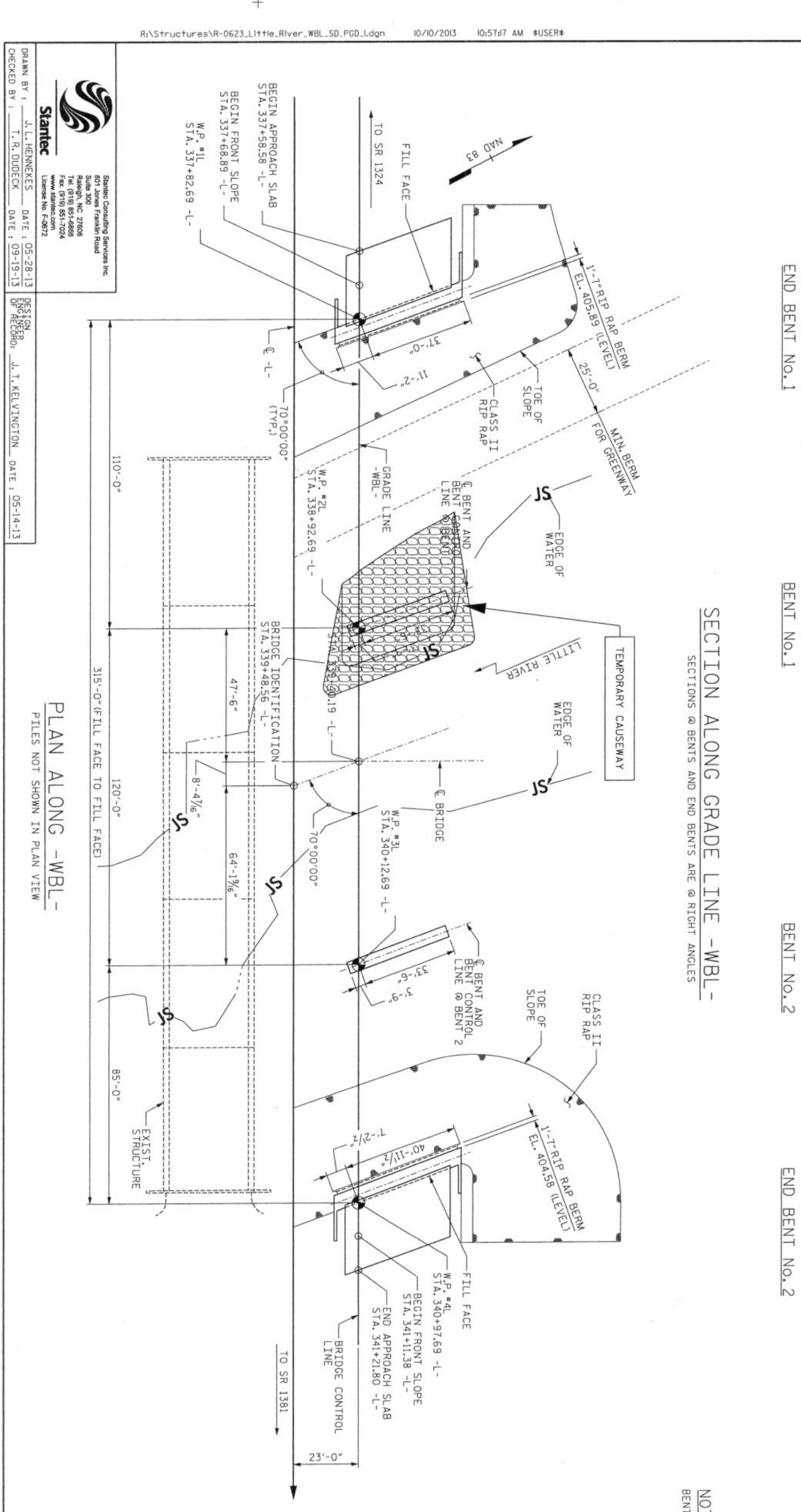
337+00 338+00 339+00 340+00 341+00 342+00



F.A. PROJECT NO.: STP-24(6)

HYDRAULIC DESIGN DATA
DESIGN DISCHARGE 14000 CFS.
FREQUENCY 50 YR.
DESIGN HIGH WATER EL. 391.3
DRAINAGE AREA 148.6 SQ. MI.
BASE DISCHARGE (0100) 16000 CFS.
BASE HIGH WATER EL. 392.64

NOTES:
BENTS AND END BENTS ARE PARALLEL.



DRAWN BY: J. L. HENNEKES
CHECKED BY: T. R. DUDECK
DATE: 05-28-13
DATE: 09-19-13
DESIGN ENGINEER: J. T. KELVINGTON
DATE: 05-14-13