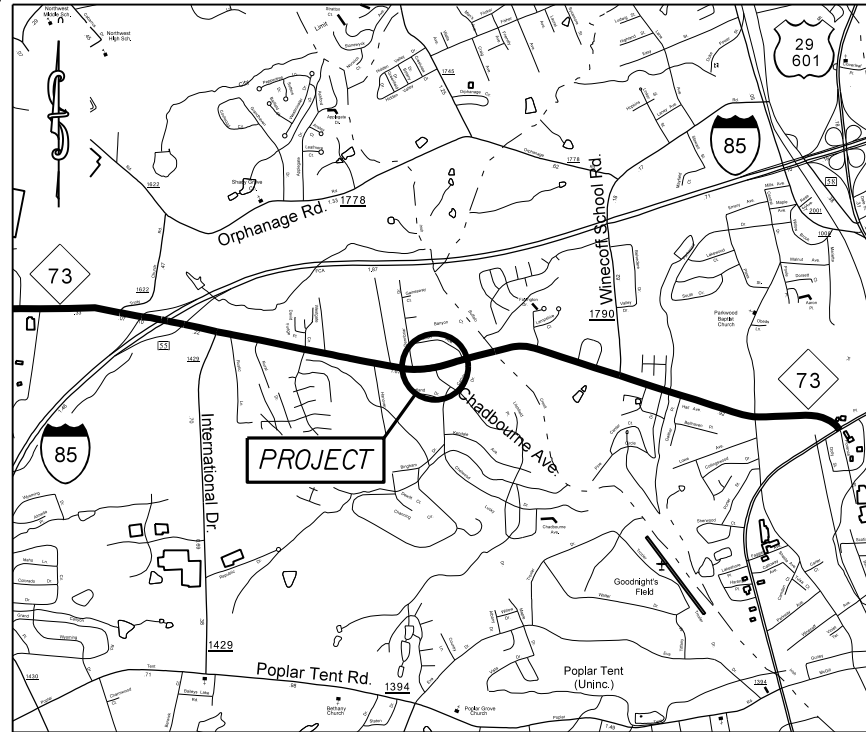


**PROJECT: 43577.3.1 TIP:SS-4910AZ**

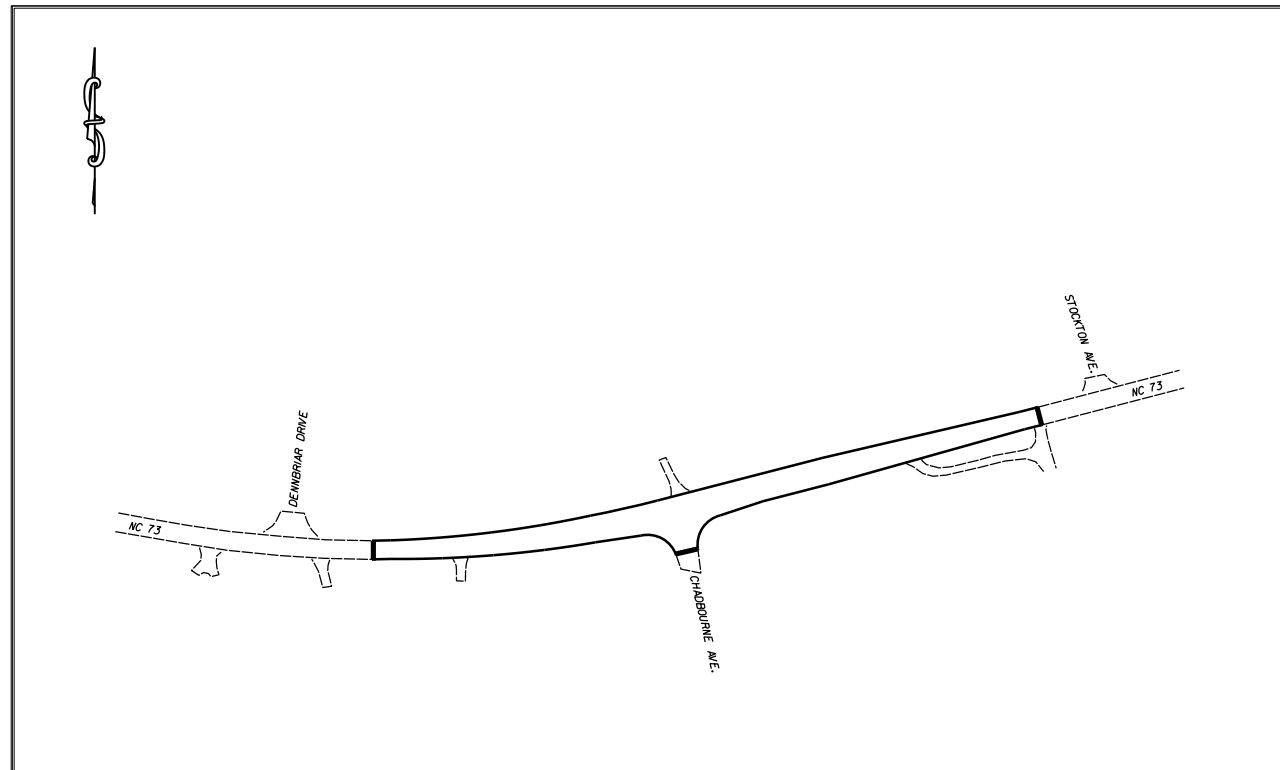


VICINITY MAP

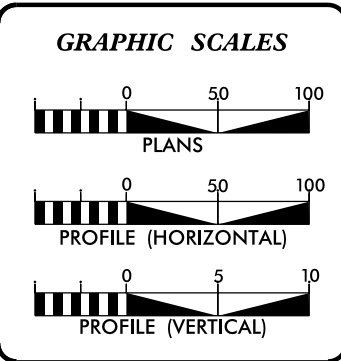
STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
**CABARRUS COUNTY**

**LOCATION:** INTERSECTION OF NC 73 AND CHADBOURNE AVE.

**TYPE OF WORK:** GRADING, PAVING, DRAINAGE &  
 THERMOPLASTIC PAVEMENT MARKINGS



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	43577.3.1	1	
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
43577.1.1	HSIP-0073(20)	P.E.	
43577.2.1		R/W	
43577.3.1		CONST.	



**DESIGN DATA**

ADT	=	
ADT	=	
DHV	=	%
D	=	%
T	=	%
V	=	MPH

**PROJECT LENGTH**

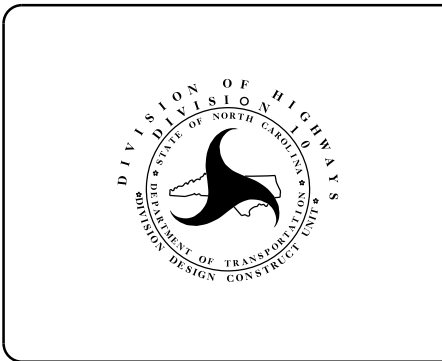
LENGTH OF ROADWAY PROJECT	=	0.17	MILES
TOTAL LENGTH OF STATE PROJECT	=	0.17	MILES

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
 DIVISION TEN  
 DIVISION DESIGN / CONSTRUCT UNIT

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2012 STANDARD SPECIFICATIONS

<b>RIGHT OF WAY DATE:</b> _____	<b>RANDY BOWERS</b> PROJECT ENGINEER
<b>LETTING DATE:</b> February 18, 2015	<b>DONALD HARWARD</b> PROJECT DESIGN ENGINEER

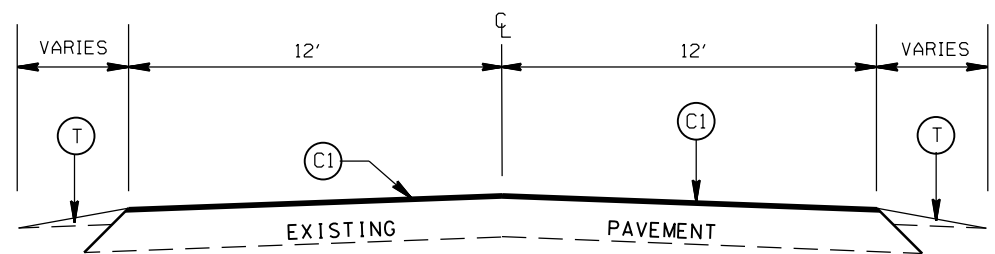


DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA

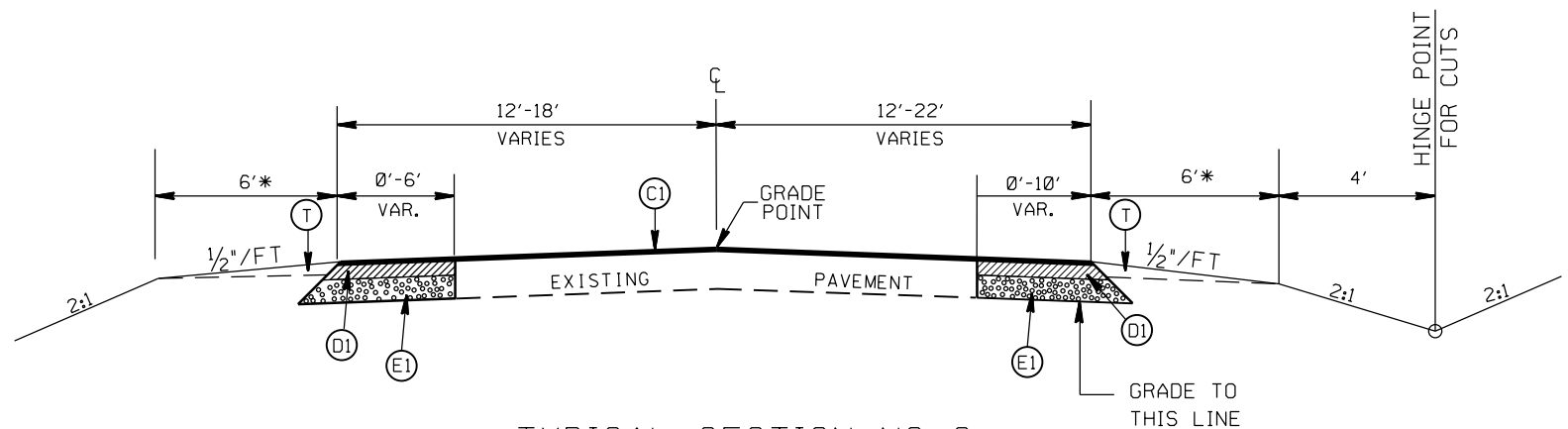
DocuSigned by:  
 Randy Bowers  
 52A4A66079864B2...

APPROVED BY  
 DDC ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

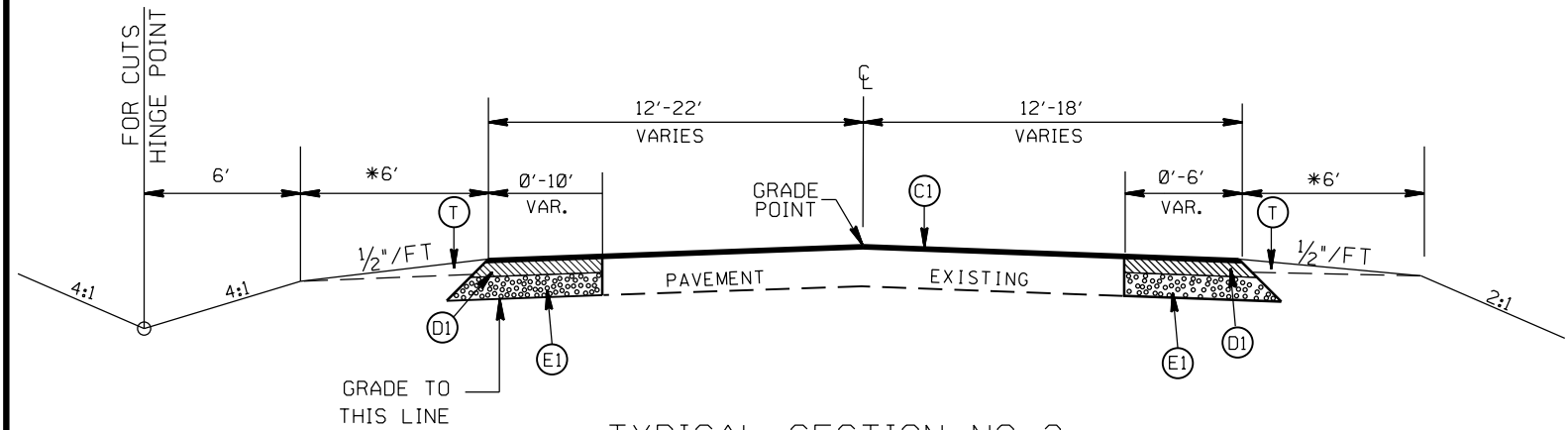
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43577.3.1	2	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 1  
 STA. 13+41.54 TO 13+66.54 -L-  
 STA. 22+25 TO 22+50 -L-



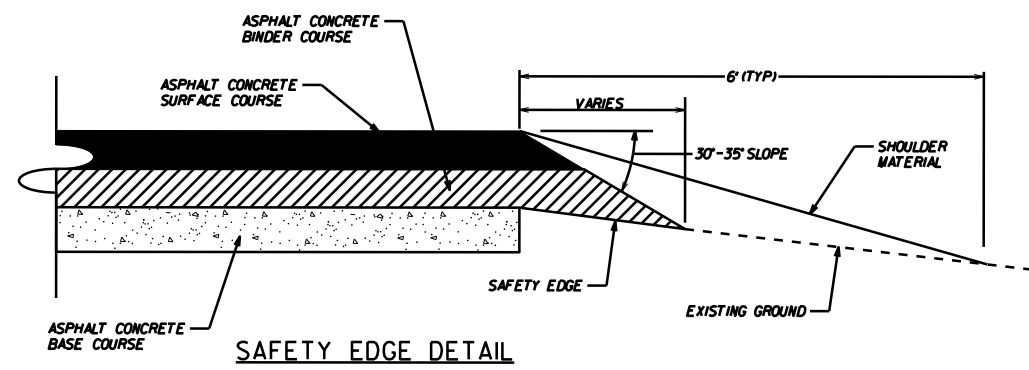
TYPICAL SECTION NO. 2  
 STA. 13+66.54 TO 15+50 -L-  
 STA. 18+00 TO 22+25 -L-



TYPICAL SECTION NO. 3  
 STA. 15+50 TO 18+00 -L-

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1 1/2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(D1)	PROP. APPROX. 3" ASPHALT CONC. BINDER COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
(E1)	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(T)	EARTH MATERIAL



SAFETY EDGE DETAIL

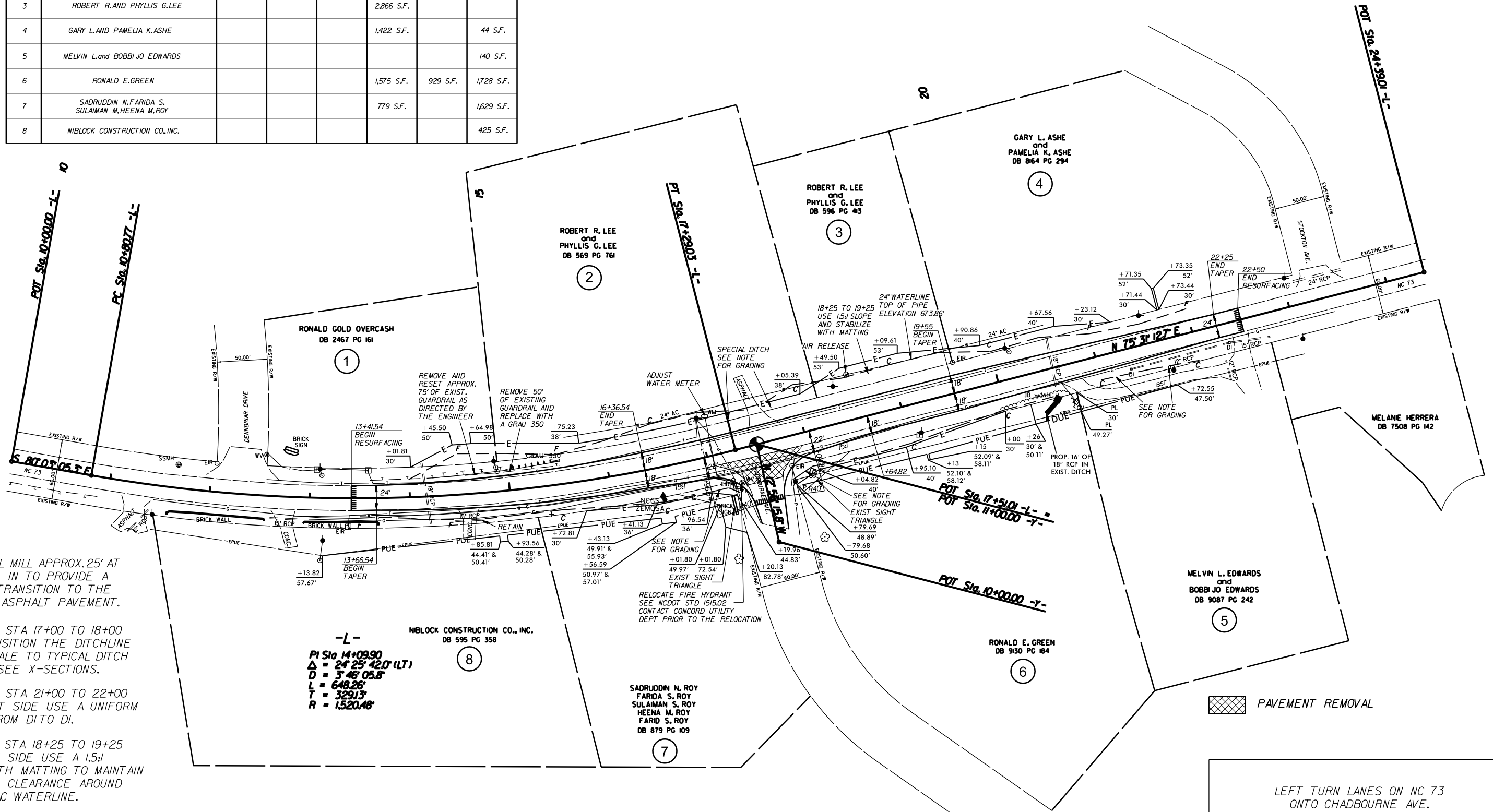
NOTES  
 \* - 7' WITH GUARDRAIL (FACE GR MIN. 4' FROM EOP)  
 USE 4:1 SLOPES BETWEEN STA. 15+50 & 18+00 LT -L-

LEFT TURN LANES ON NC 73  
 ONTO CHADBOURNE AVE.

SCALE	r=50'		REVISIONS
DATE	10-12		
DWG. BY	JDH		
DESIGN BY	JDH		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43577.3J	3	
F.A. PROJECT NO.			

PARCEL NO.	PARCEL OWNER	TOTAL ACREAGE	AREA TAKEN	AREA REMAINING	TEMP. CONST. EASE.	DUAL UTILITY EASE.	PERM. UTILITY EASE.
1	RONALD GOLD OVERCASH				1,273 S.F.		
2	ROBERT R. AND PHYLLIS G. LEE				3,093 S.F.		
3	ROBERT R. AND PHYLLIS G. LEE				2,866 S.F.		
4	GARY L. AND PAMELIA K. ASHE				1,422 S.F.		44 S.F.
5	MELVIN L. AND BOBBI JO EDWARDS						140 S.F.
6	RONALD E. GREEN				1,575 S.F.	929 S.F.	1,728 S.F.
7	SADRUDDIN N. FARIDA S. SULAIMAN M. HEENA M. ROY				779 S.F.		1,629 S.F.
8	NIBLOCK CONSTRUCTION CO., INC.						425 S.F.



NOTE: INCIDENTAL MILL APPROX. 25' AT EACH TIE IN TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING ASPHALT PAVEMENT.

BETWEEN STA 17+00 TO 18+00  
-L- TRANSITION THE DITCHLINE FROM SWALE TO TYPICAL DITCH SECTION. SEE X-SECTIONS.

BETWEEN STA 21+00 TO 22+00  
-L- RIGHT SIDE USE A UNIFORM SWALE FROM DITO DI.

BETWEEN STA 18+25 TO 19+25  
-L- LEFT SIDE USE A 1.5:1 SLOPE WITH MATTING TO MAINTAIN 4' MINIMUM CLEARANCE AROUND THE 24" AC WATERLINE.

THE PROPERTY OWNERS OF PARCEL #2 REQUESTED THE SLOPES BE NO STEEPER THAN A 4:1. THEY AGREED TO ALLOW THE NCDOT TO ENCROACH AS NEEDED TO INSURE THIS SLOPE.

-L-  
PI Sta 14+09.90  
Δ = 24' 25" 42.0' (LT)  
D = 3' 46" 05.8"  
L = 648.26'  
T = 329.33'  
R = 1,520.48'

PAVEMENT REMOVAL

LEFT TURN LANES ON NC 73 ONTO CHADBOURNE AVE.

SCALE	1"=50'		REVISIONS
DATE	10-12		
DWG. BY	JDH		
DESIGN BY	JDH		
APPROVED	RWB		

PAVEMENT MARKING SCHEDULE

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43577.3J	PMP-1	
F.A. PROJECT NO.			

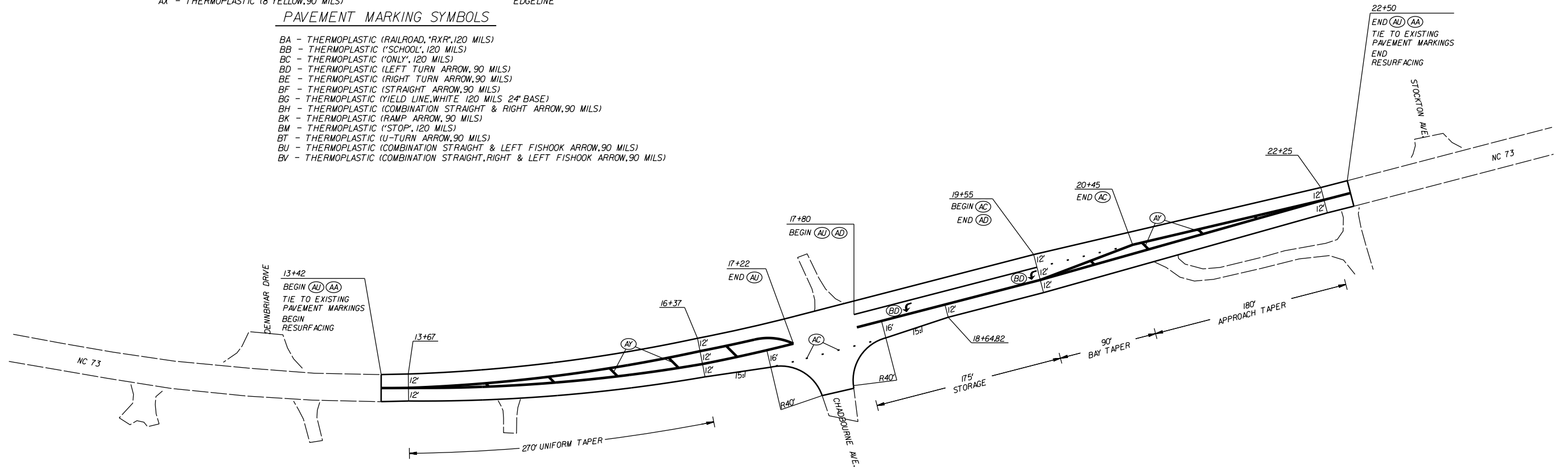
PAY ITEM DESCRIPTION

PAVEMENT MARKING LINES

AA - THERMOPLASTIC (4" WHITE, 90 MILS)	EDGE LINE
AB - THERMOPLASTIC (4" WHITE, 120 MILS)	4" X 10' SKIP
AC - THERMOPLASTIC (4" WHITE, 120 MILS)	4" X 2' MINISKIP
AD - THERMOPLASTIC (4" WHITE, 120 MILS)	SOLID LANE LINE
AH - THERMOPLASTIC (8" WHITE, 90 MILS)	EDGE LINE
AI - THERMOPLASTIC (8" WHITE, 90 MILS)	GORE LINE
AJ - THERMOPLASTIC (8" WHITE, 90 MILS)	DIAGONALS
AN - THERMOPLASTIC (12" WHITE, 120 MILS)	12" X 3' MINISKIP W/3' GAP (ENTRANCE LINE)
AO - THERMOPLASTIC (24" WHITE, 120 MILS)	STOP BAR
AP - THERMOPLASTIC (24" WHITE, 120 MILS)	CROSSWALK LINE
AQ - THERMOPLASTIC (4" YELLOW, 90 MILS)	EDGE LINE
AR - THERMOPLASTIC (4" YELLOW, 120 MILS)	4" X 10' SKIP
AS - THERMOPLASTIC (4" YELLOW, 120 MILS)	4" X 2' MINISKIP
AT - THERMOPLASTIC (4" YELLOW, 120 MILS)	SINGLE CENTER
AU - THERMOPLASTIC (4" YELLOW, 120 MILS)	DOUBLE CENTER LINE
AV - THERMOPLASTIC (8" YELLOW, 90 MILS)	DIAGONALS
AX - THERMOPLASTIC (8" YELLOW, 90 MILS)	EDGE LINE

PAVEMENT MARKING SYMBOLS

BA - THERMOPLASTIC (RAILROAD, "RXR", 120 MILS)
BB - THERMOPLASTIC ("SCHOOL", 120 MILS)
BC - THERMOPLASTIC ("ONLY", 120 MILS)
BD - THERMOPLASTIC (LEFT TURN ARROW, 90 MILS)
BE - THERMOPLASTIC (RIGHT TURN ARROW, 90 MILS)
BF - THERMOPLASTIC (STRAIGHT ARROW, 90 MILS)
BG - THERMOPLASTIC (YIELD LINE, WHITE, 120 MILS 24" BASE)
BH - THERMOPLASTIC (COMBINATION STRAIGHT & RIGHT ARROW, 90 MILS)
BK - THERMOPLASTIC (RAMP ARROW, 90 MILS)
BM - THERMOPLASTIC ("STOP", 120 MILS)
BT - THERMOPLASTIC (U-TURN ARROW, 90 MILS)
BU - THERMOPLASTIC (COMBINATION STRAIGHT & LEFT FISHHOOK ARROW, 90 MILS)
BV - THERMOPLASTIC (COMBINATION STRAIGHT, RIGHT & LEFT FISHHOOK ARROW, 90 MILS)



LEFT TURN LANES ON NC 73  
ONTO CHADBOURNE AVE.

SCALE	1"=50'
DATE	10-12
DWG. BY	JDH
DESIGN BY	JDH
APPROVED	RWB



REVISIONS	

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	43577.3.1	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  

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**PLAN FOR PROPOSED  
HIGHWAY EROSION CONTROL**

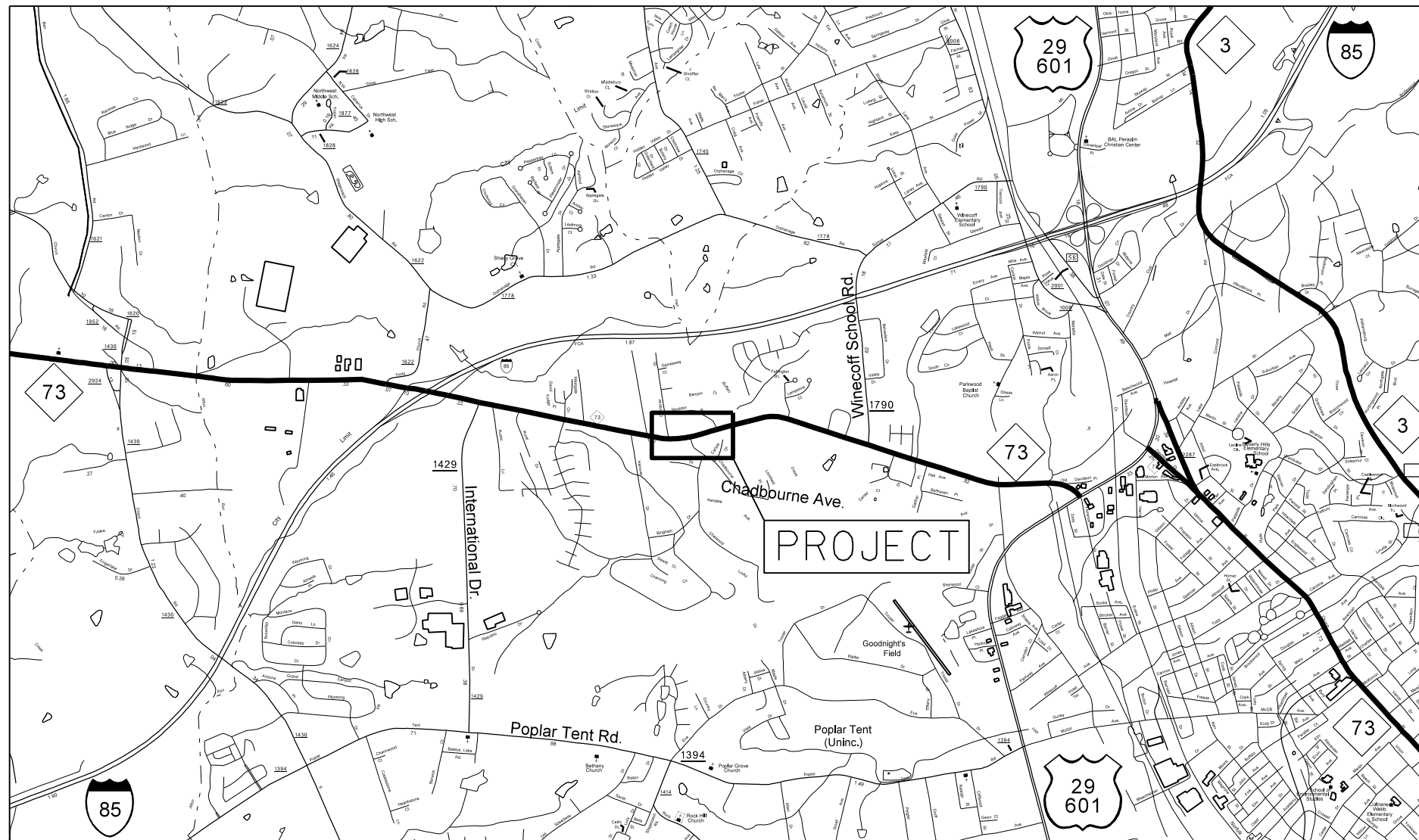
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**EROSION AND SEDIMENT CONTROL MEASURES**

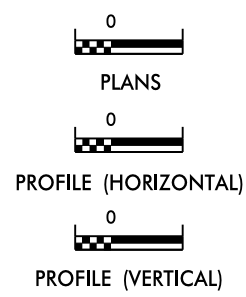
Std. #	Description	Symbol
1630.05	Temporary Silt Ditch	---
1630.05	Temporary Diversion	---
1605.01	Temporary Silt Fence	--- --- ---
1606.01	Special Sediment Control Fence	--- --- ---
1622.01	Temporary Berms and Slope Drains	--- --- ---
1630.02	Silt Basin Type B	--- --- ---
1633.01	Temporary Rock Silt 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.



**PROJECT: 43577.3.1 TIP: SS-4910AZ**

**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 3, 2011  
ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND  
NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared In the Office of:  
**DDC UNIT DIVISION 10**  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**2012 STANDARD SPECIFICATIONS**

**DONALD HARWARD** 3028  
EROSION CONTROL DESIGNER LEVEL III-A CERTIFICATION #

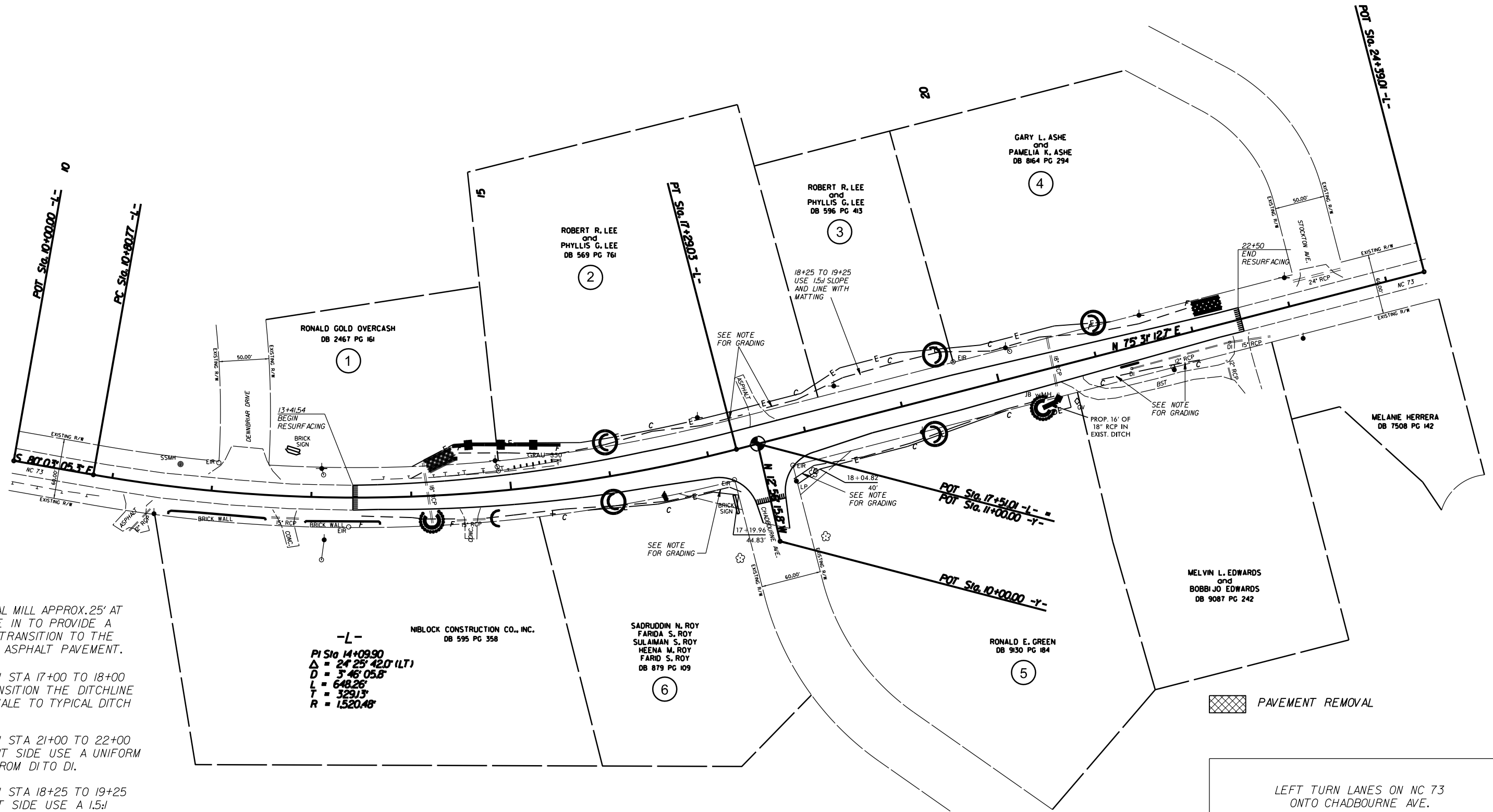
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 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	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

NC 73 141-5905 10-24  
p:\d\at\0001\43577\3.1\chadbourne\_erosion\_t1.tlshsheet.dgn

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43577.3J	EC-2	
F.A. PROJECT NO.			



NOTE: INCIDENTAL MILL APPROX. 25' AT EACH TIE IN TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING ASPHALT PAVEMENT.

BETWEEN STA 17+00 TO 18+00 -L- TRANSITION THE DITCHLINE FROM SWALE TO TYPICAL DITCH SECTION.

BETWEEN STA 21+00 TO 22+00 -L- RIGHT SIDE USE A UNIFORM SWALE FROM DI TO DI.

BETWEEN STA 18+25 TO 19+25 -L- LEFT SIDE USE A 1.5:1 SLOPE WITH MATTING.

-L-  
 NIBLOCK CONSTRUCTION CO., INC.  
 DB 595 PG 358  
 PI Sta 14+09.90  
 $\Delta = 24' 25" 42.0" (LT)$   
 $D = 3' 46" 05.8"$   
 $L = 648.26'$   
 $T = 329.13'$   
 $R = 1,520.46'$

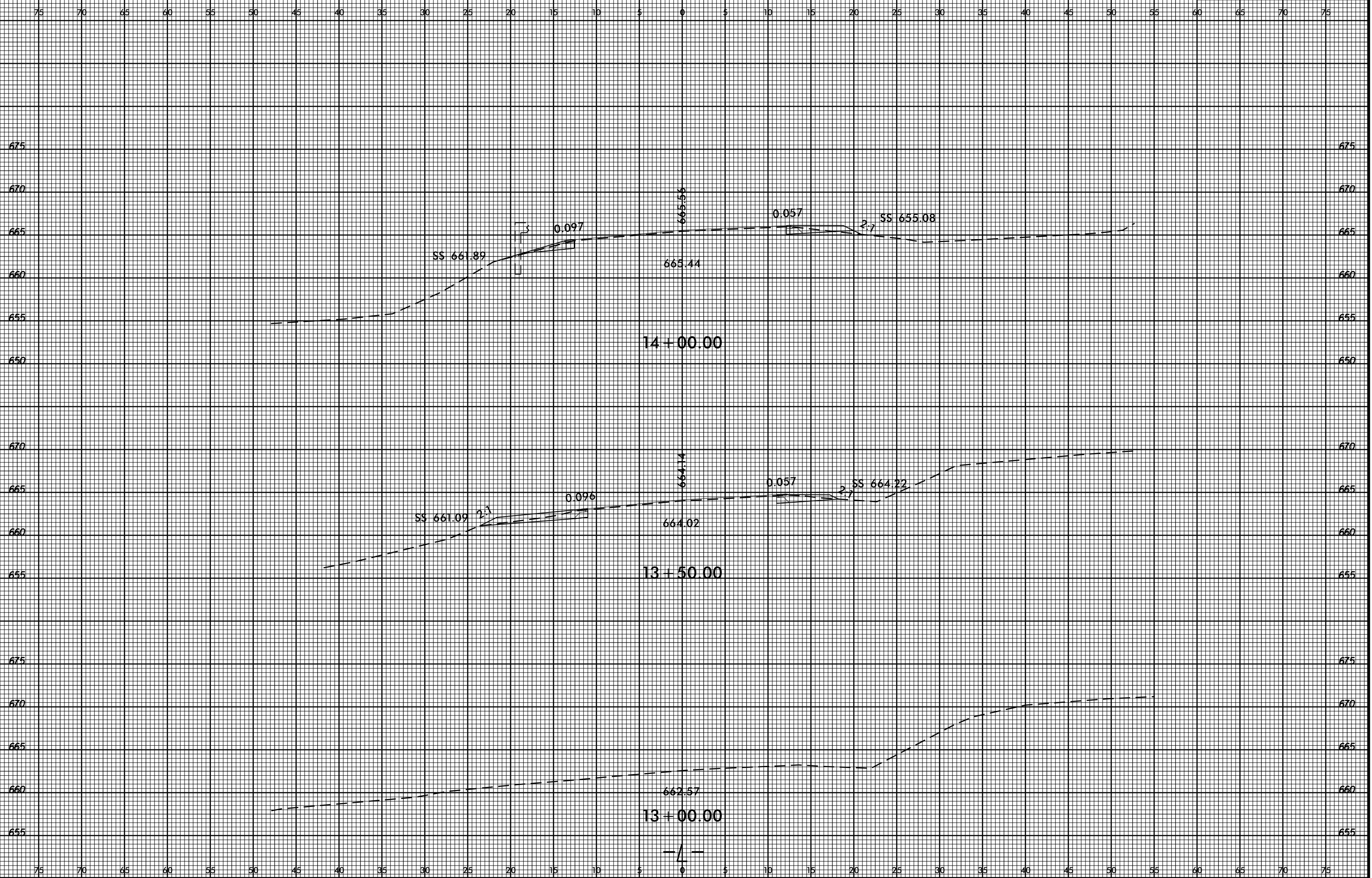
PAVEMENT REMOVAL

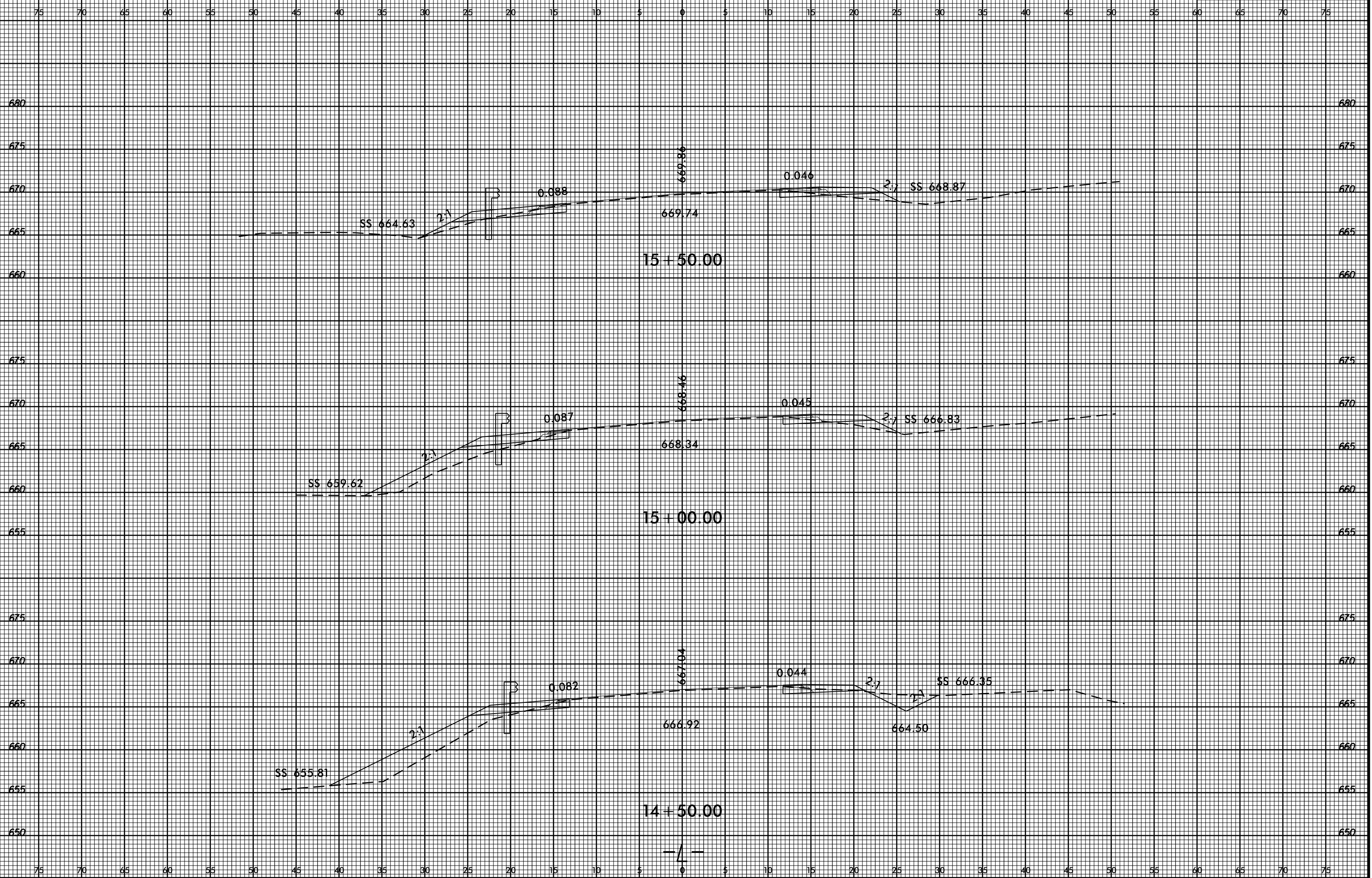
LEFT TURN LANES ON NC 73 ONTO CHADBOURNE AVE.

SCALE	r=50'
DATE	10-12
DWG. BY	JDH
DESIGN BY	JDH
APPROVED	RWB

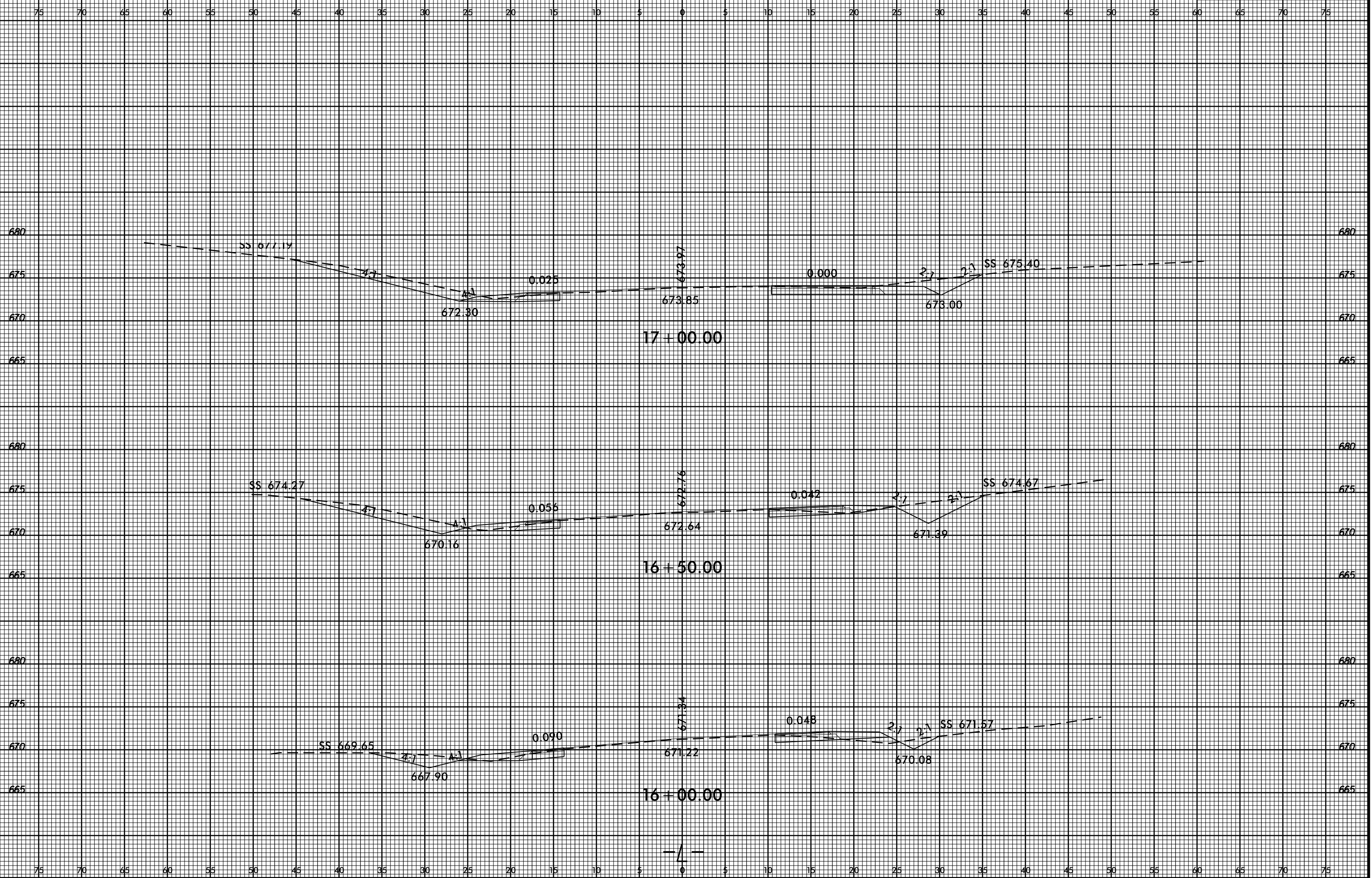


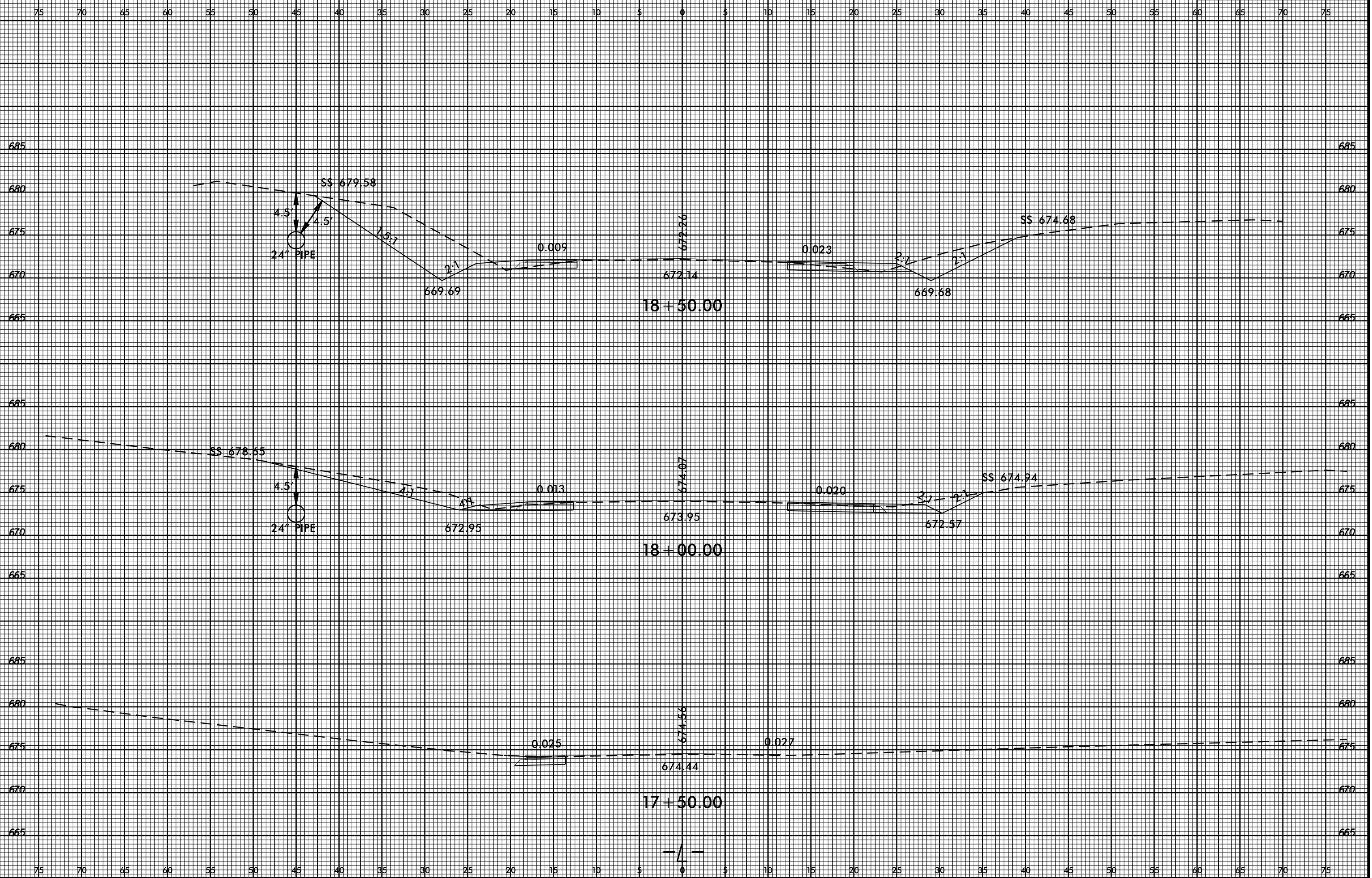
REVISIONS	

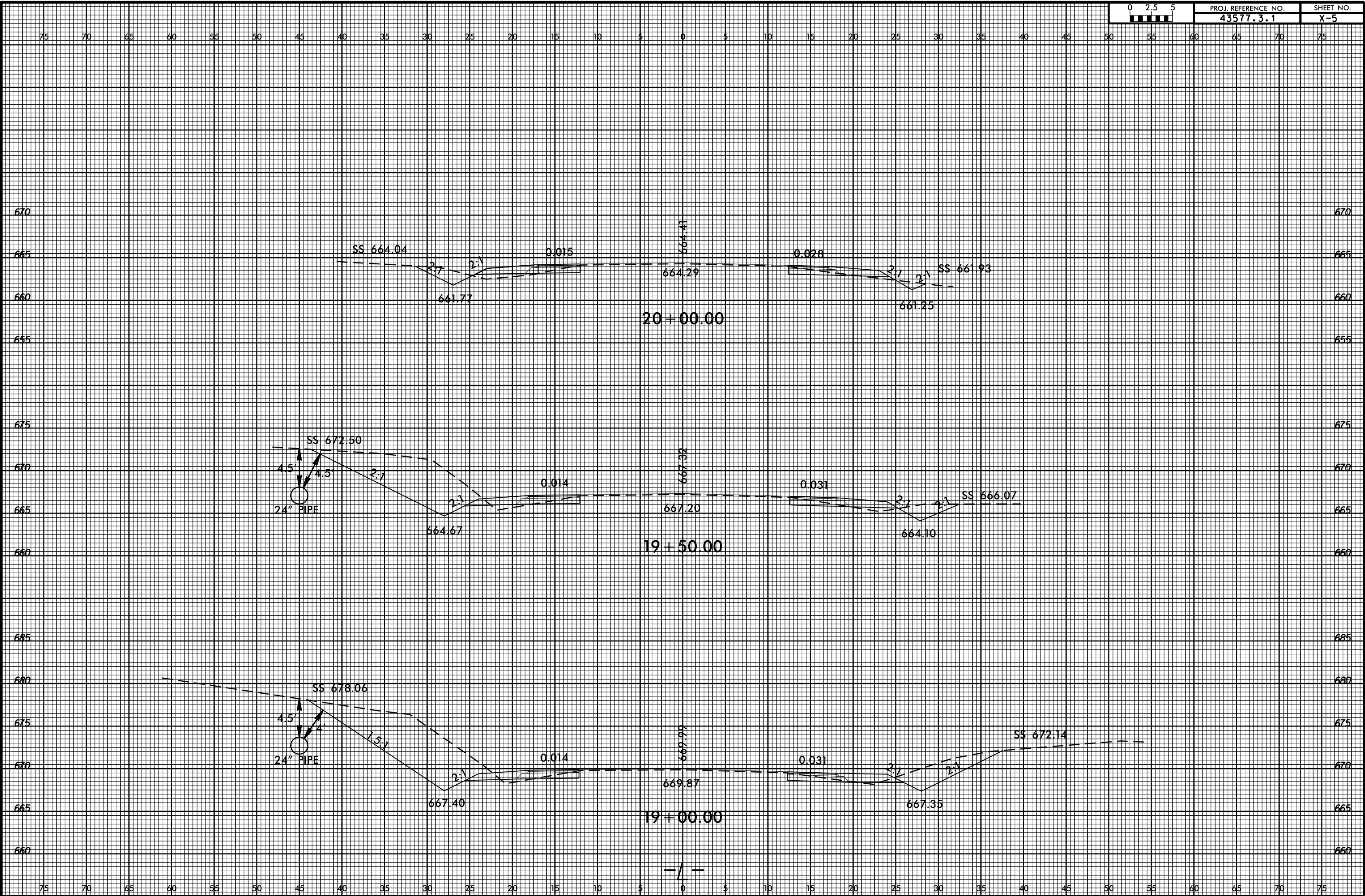


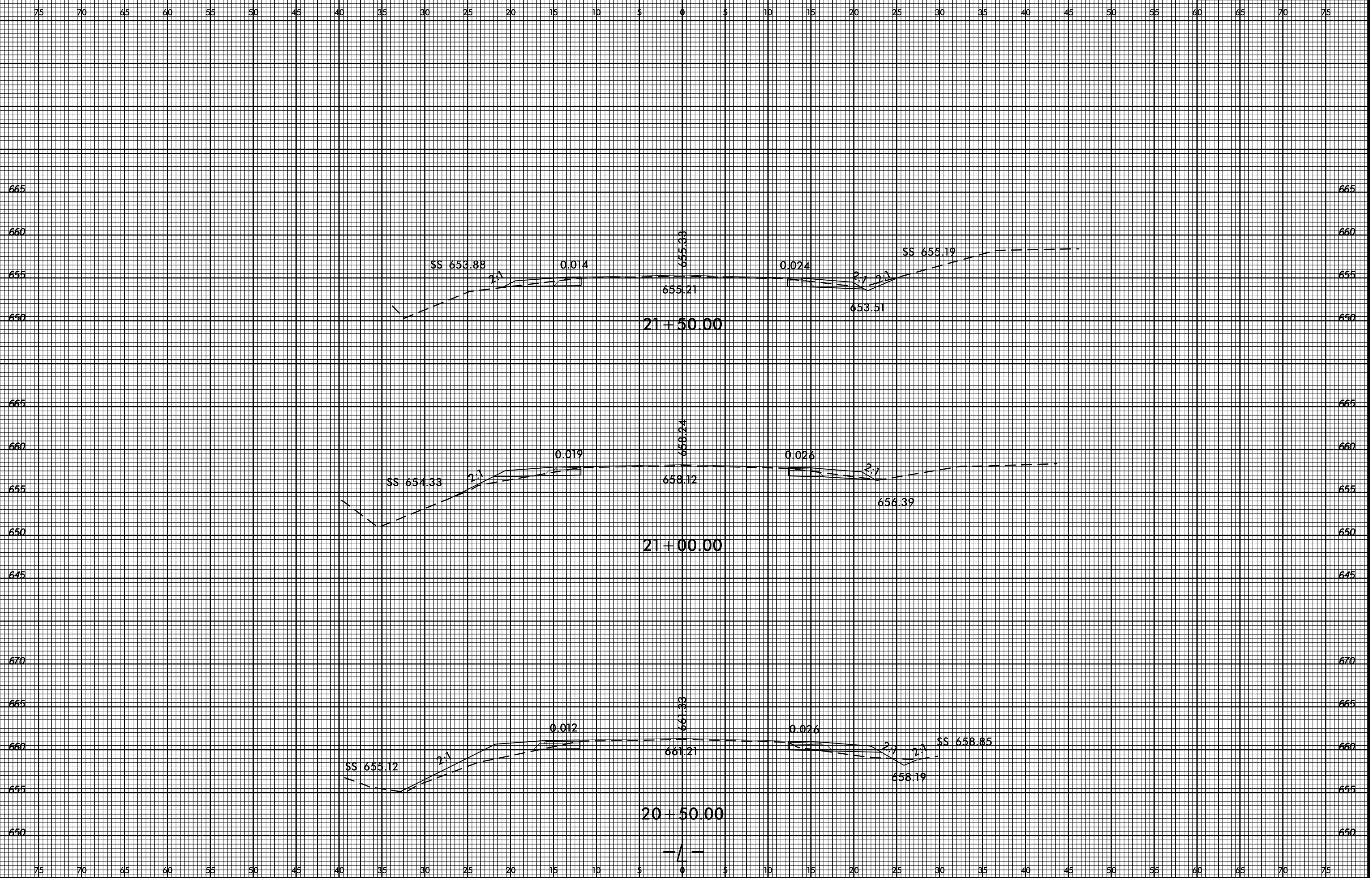






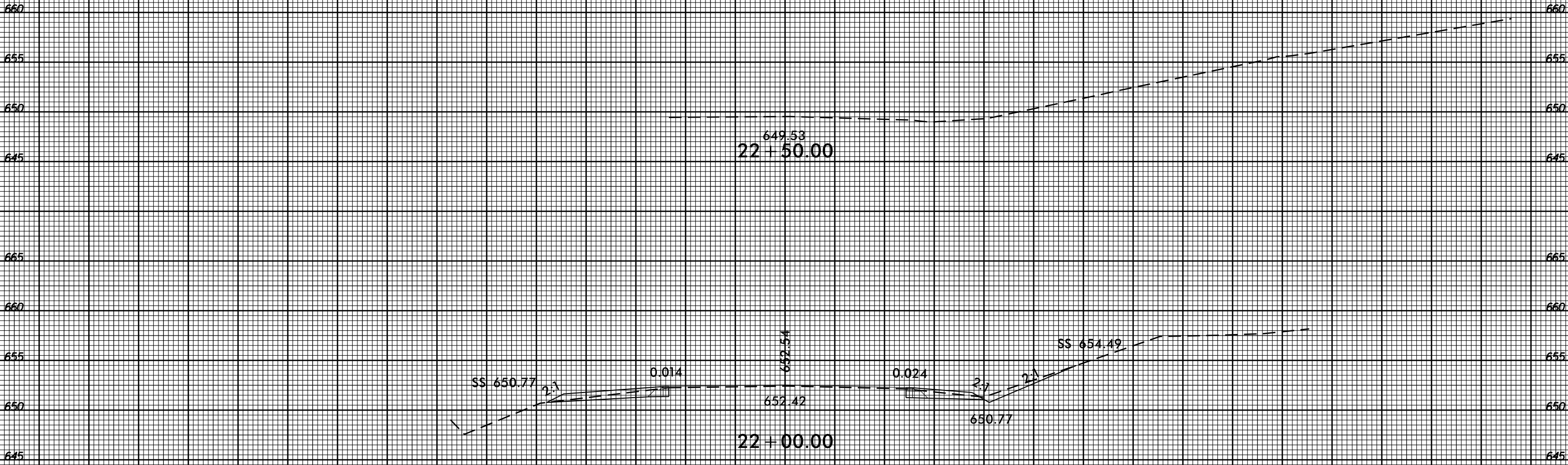






8/23/99

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



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