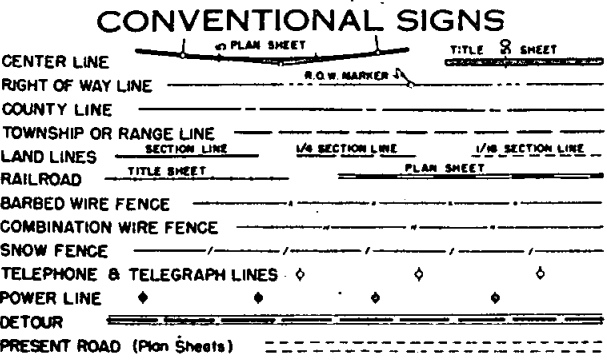


FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOT. SHEETS
9	COLORADO	S 0023 (8)	1	

COLORADO
DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT NO. S 0023(8)
STATE HIGHWAY NO. 71
CROWLEY COUNTY

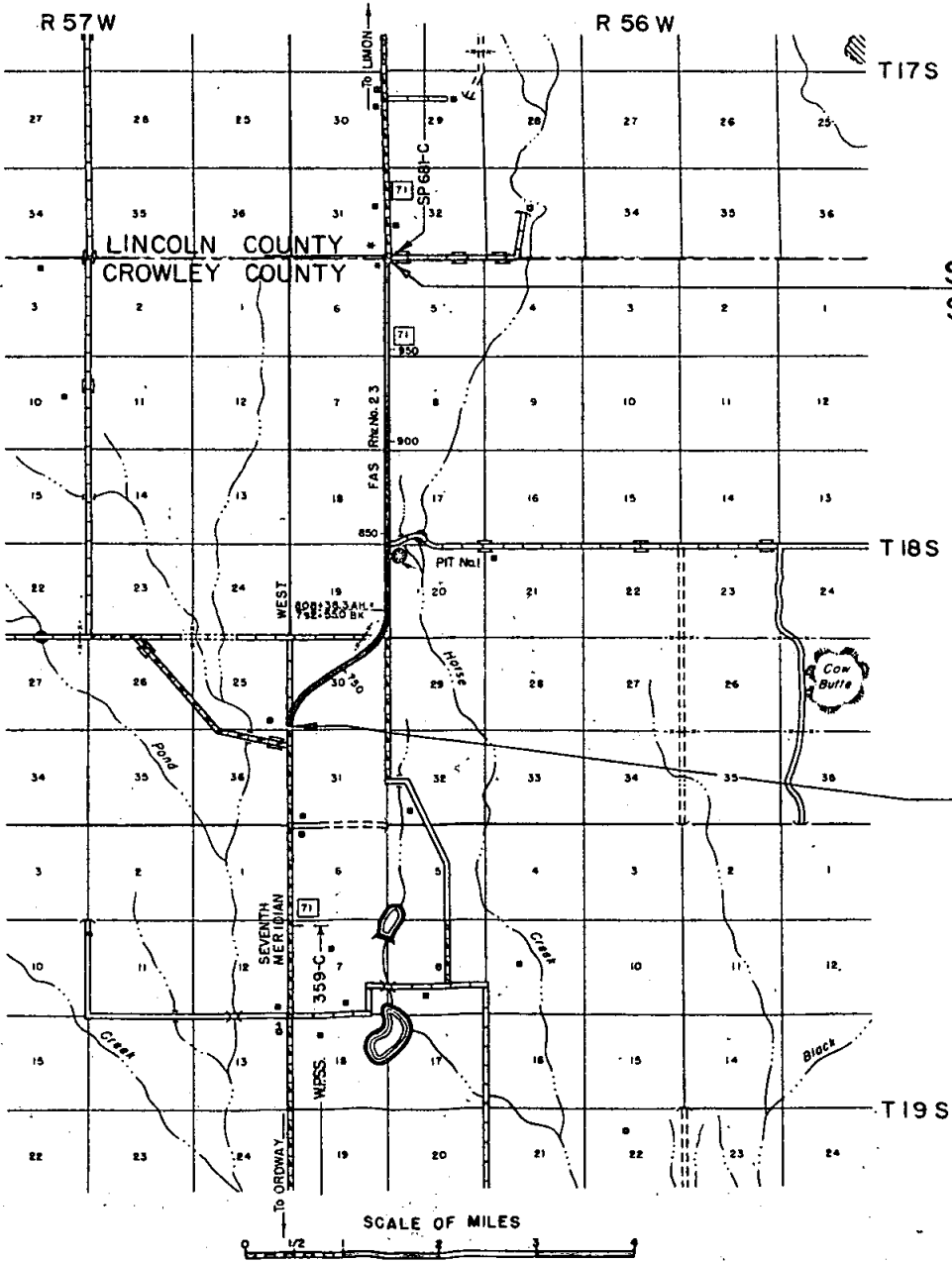
INDEX OF SHEETS	
SHEET NO.	
1	TITLE PAGE, SKETCH MAP AND TABULATION OF LENGTH AND DESIGN DATA
2	TYPICAL CROSS SECTION, GENERAL NOTES AND SUMMARY OF APPROXIMATE QUANTITIES
3	SKETCH MAP OF MATERIAL PIT, SURFACING PLAN, SUB-BASE MATERIAL PLAN, TIMBER GUARD POSTS AND SUMMARY OF EARTHWORK QUANTITIES
4	LIST OF STRUCTURES
5	STANDARD METHODS FOR SUPERELEVATION & WIDENING OF CURVES (CROWNED HIGHWAYS)
6	STANDARD SIDE APPROACH ROADS, FLARING, CUT SLOPE TREATMENT & WIDENING AT BRIDGES AND AT CREST OF GRADES
7	STANDARD MARKER POSTS AND BENCH MARKS
8	STANDARD TIMBER GUARD POSTS
9-10	STANDARD ROADWAY CONSTRUCTION TRAFFIC SIGNS
11	STANDARD METHODS OF BACKFILL AROUND STRUCTURES
12	STANDARD TYPES OF DITCHES AND CONSTRUCTION METHODS
13-22	ALIGNMENT PLAN AND PROFILE
23-24	CROSS SECTIONS FOR STRUCTURES



SCALES OF ORIGINAL DRAWINGS
ON PLAN, 1 IN. = 100 FT.
ON PROFILE, 1 IN. = 100 FT. HORIZONTAL
1 IN. = 10 FT. VERTICAL
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD
GROSS LENGTH OF PROJECT - 28,365.7 Ft. = 5.372 Miles
NET LENGTH OF PROJECT

TABULATION OF LENGTH AND DESIGN DATA

STATION	ROADWAY LIN. FT.		
700+95.8 - BEGIN S 0023(8) = 700+95.8 - END S 0023(7) =	2,844.9'		
729+40.7 BK = EQUATION 729+40.9 AH	6,314.1'		
792+55.0 BK = EQUATION 808+38.3 AH	19,206.7'		
1000+45.0 - END S 0023(8) = 0+00 - BEGIN SP 681-C			
TOTAL	28,365.7'		
SUMMARY		LIN. FT.	MILES
ROADWAY		28,365.7'	5.372'
TOTAL, GROSS AND NET LENGTH		28,365.7'	5.372'
DESIGN DATA			
MAXIMUM DEGREE CURVE		2° 00'	
MAXIMUM GRADE		-2.3%	
MINIMUM N.P.S.D. (HORIZONTAL)		>1300'	
MINIMUM N.P.S.D. (VERTICAL)		850'	
MAXIMUM DESIGN SPEED		70 M.P.H.	



STA. 1000+45.0 END S0023(8) =
STA. 0+00 BEGIN SP681-C

STA. 700+95.8 BEGIN S0023(8) =
STA. 700+95.8 END S0023(7) =

SEE SPECIAL PROVISIONS FOR NOTICE TO BIDDERS

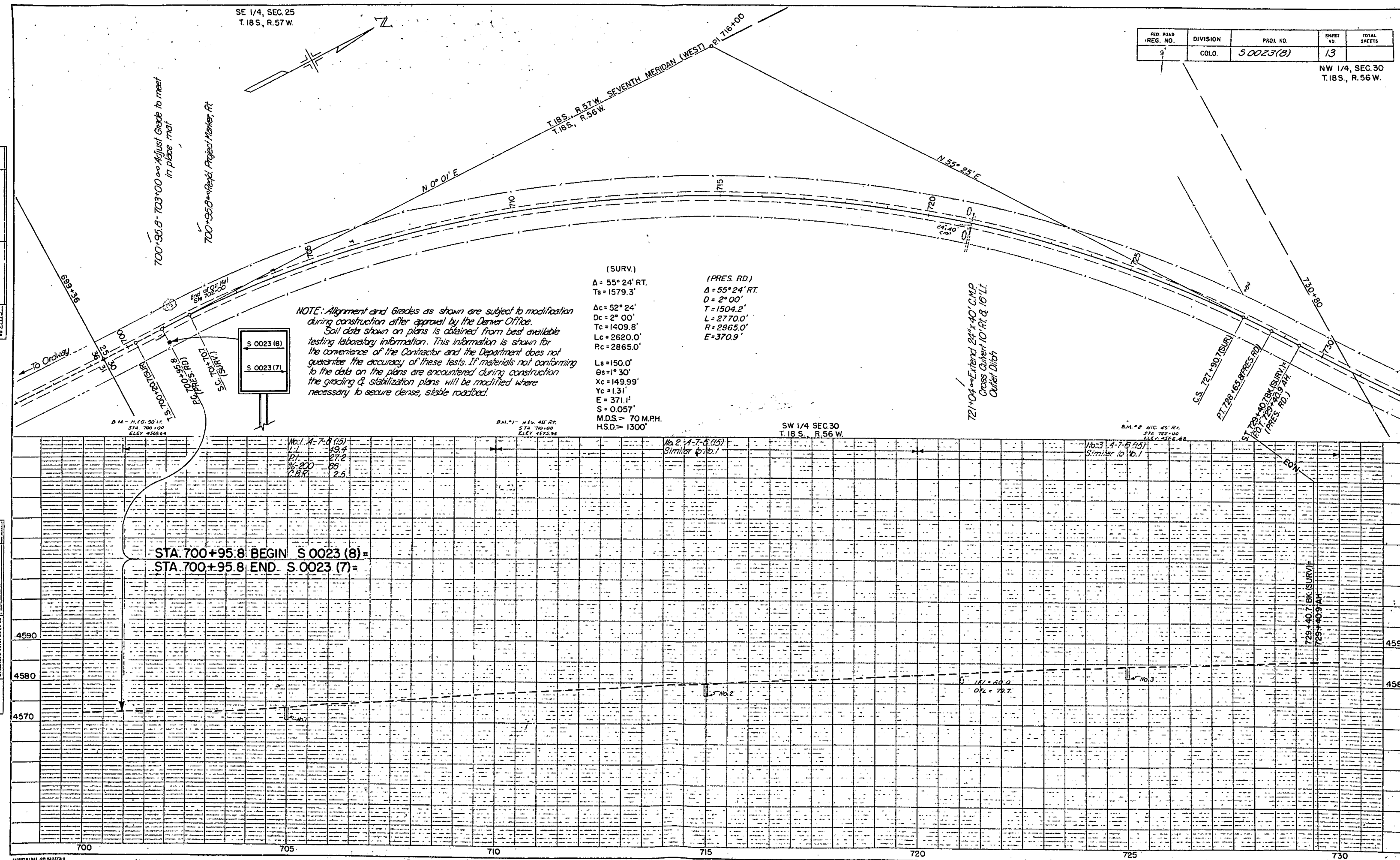
COLORADO
DEPARTMENT OF HIGHWAYS
APPROVED: *Monte L. ...* 10-23-
CHIEF ENGINEER DATE

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED: _____
DIVISION ENGINEER DATE

SE 1/4, SEC. 25
T.18 S., R.57 W.

FED. ROAD REG. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	5 0023(B)	13	

NW 1/4, SEC. 30
T.18 S., R.56 W.



ALLEGHENY DISTRICT
DIVISION OF HIGHWAYS
NO. 27713

NO. 27713
STRUCTURE NOT AS SHOWN

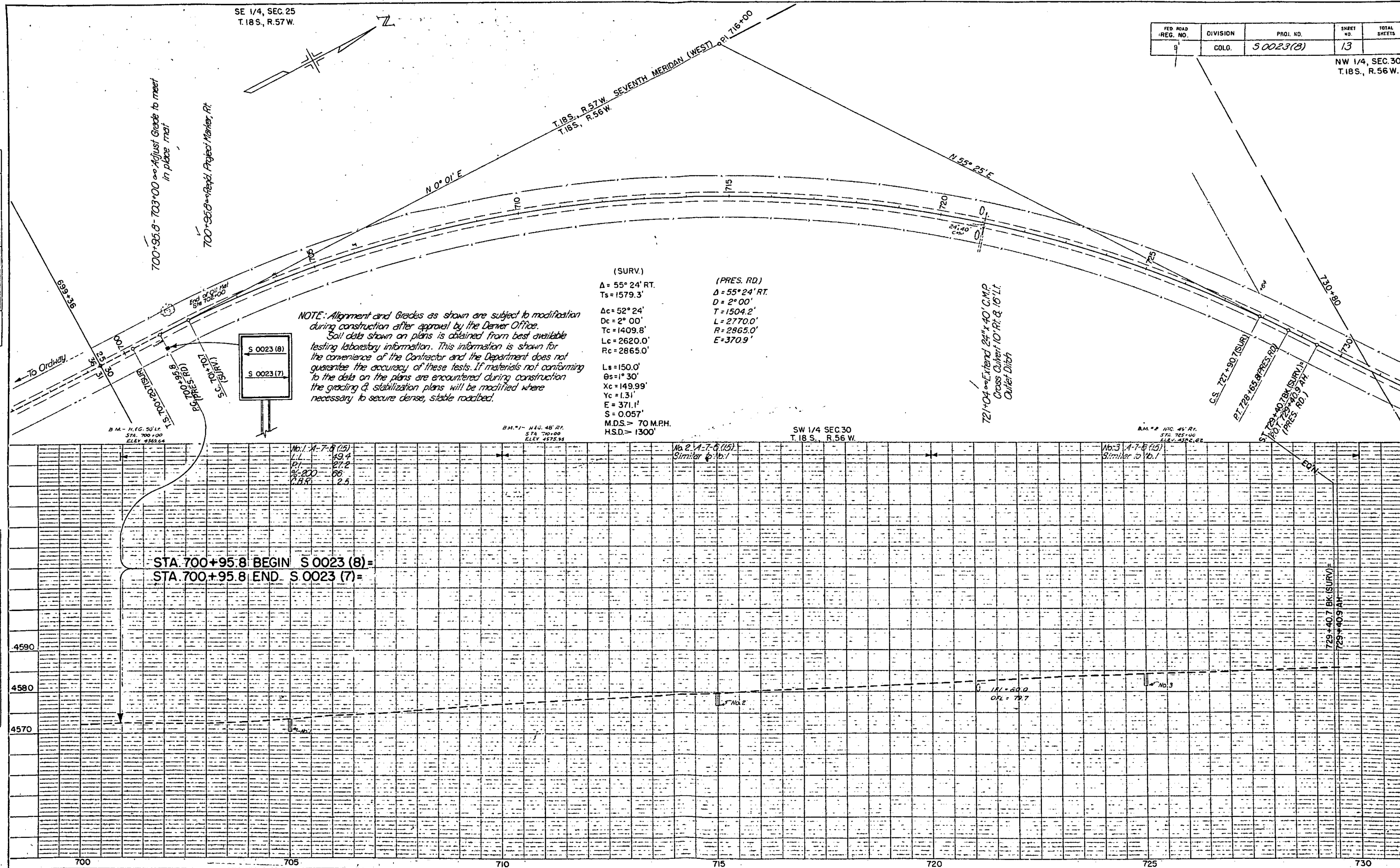
SE 1/4, SEC. 25
T.18 S., R.57 W.

FED. ROAD REG. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S 0023(B)	13	

NW 1/4, SEC. 30
T.18 S., R.56 W.

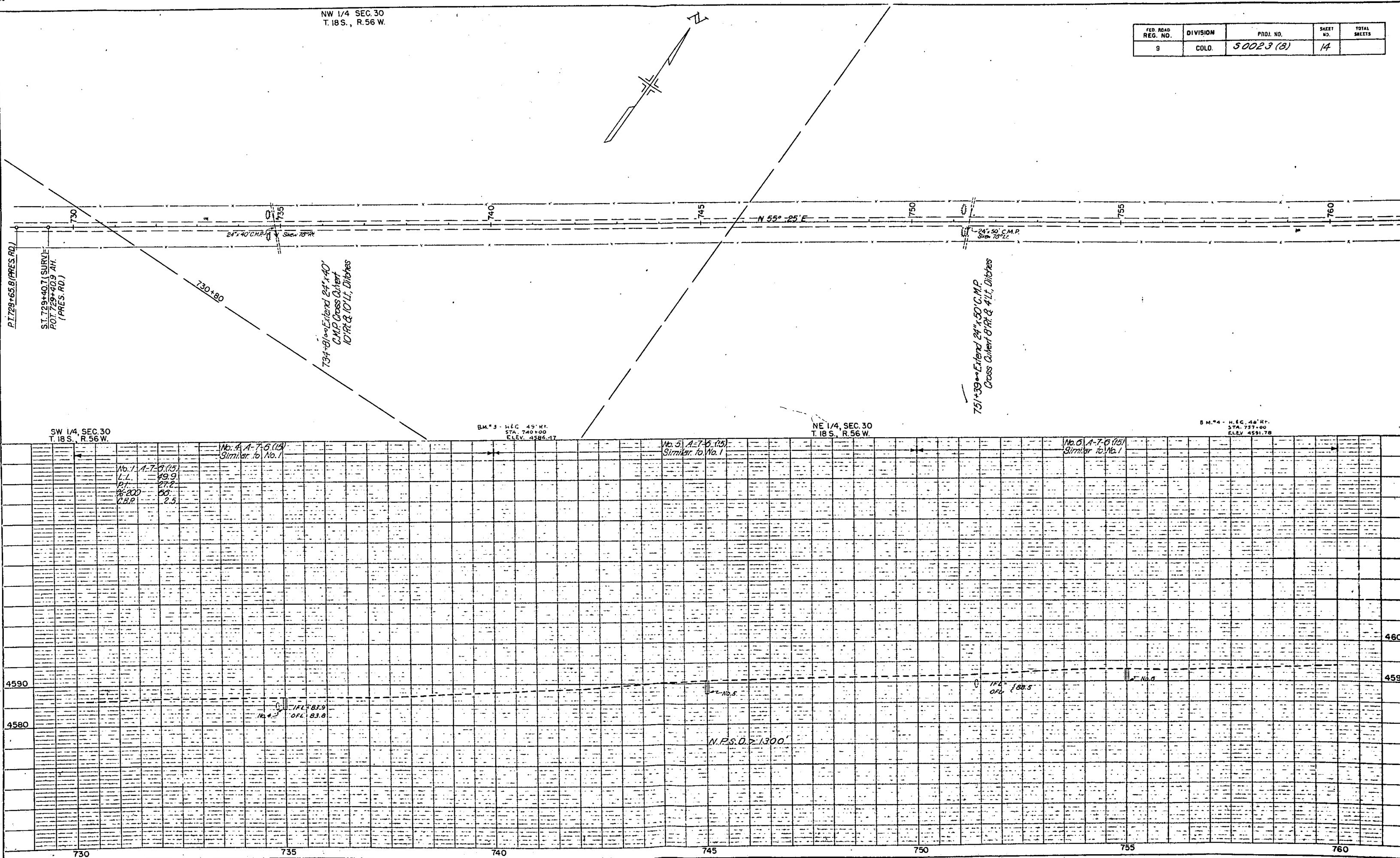
PLAN	DATE
NOTED NO. 2/7/73	

PROFILE	DATE
NOTED NO. 2/7/73	



NW 1/4 SEC. 30
T. 18 S., R. 56 W.

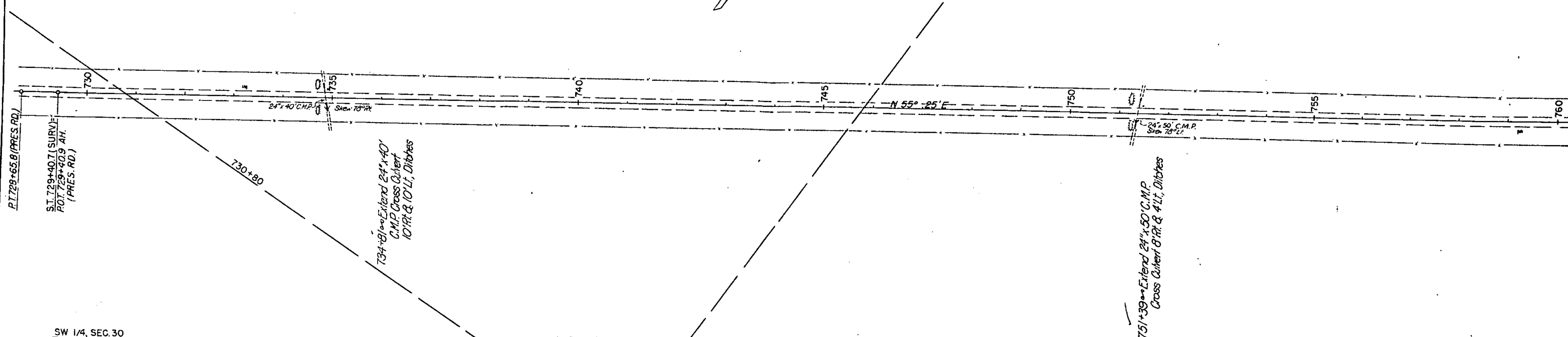
FED. ROAD REG. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	50023 (8)	14	



NW 1/4 SEC. 30
T. 18 S., R. 56 W.

FED. ROAD REG. NO.	DIVISION	PROJ. NO.	SHEET NO.
9	COLO.	50023 (8)	14

PLAN	SURVEYED	DATE
	NOTED	BY
PROFILE	GRADES CHECKED	DATE
	STRUCTURE NOTED	BY



SW 1/4, SEC. 30
T. 18 S., R. 56 W.

B.M. 3 - H.E.C. 45' H.T.
STA. 740+00
ELEV. 4596.47

NE 1/4, SEC. 30
T. 18 S., R. 56 W.

B.M. 4 - H.E.C. 46' H.T.
STA. 757+00
ELEV. 4591.78

No. 1, A=7-6 (15)
L.L. 49.9
P.I. 27.2
R=200
C.B.R. 2.5

No. 4, A=7-6 (15)
Similar to No. 1

No. 5, A=7-6 (15)
Similar to No. 1

No. 6, A=7-6 (15)
Similar to No. 1

No. 1, A=7-6 (15)
L.L. 49.9
P.I. 27.2
R=200
C.B.R. 2.5

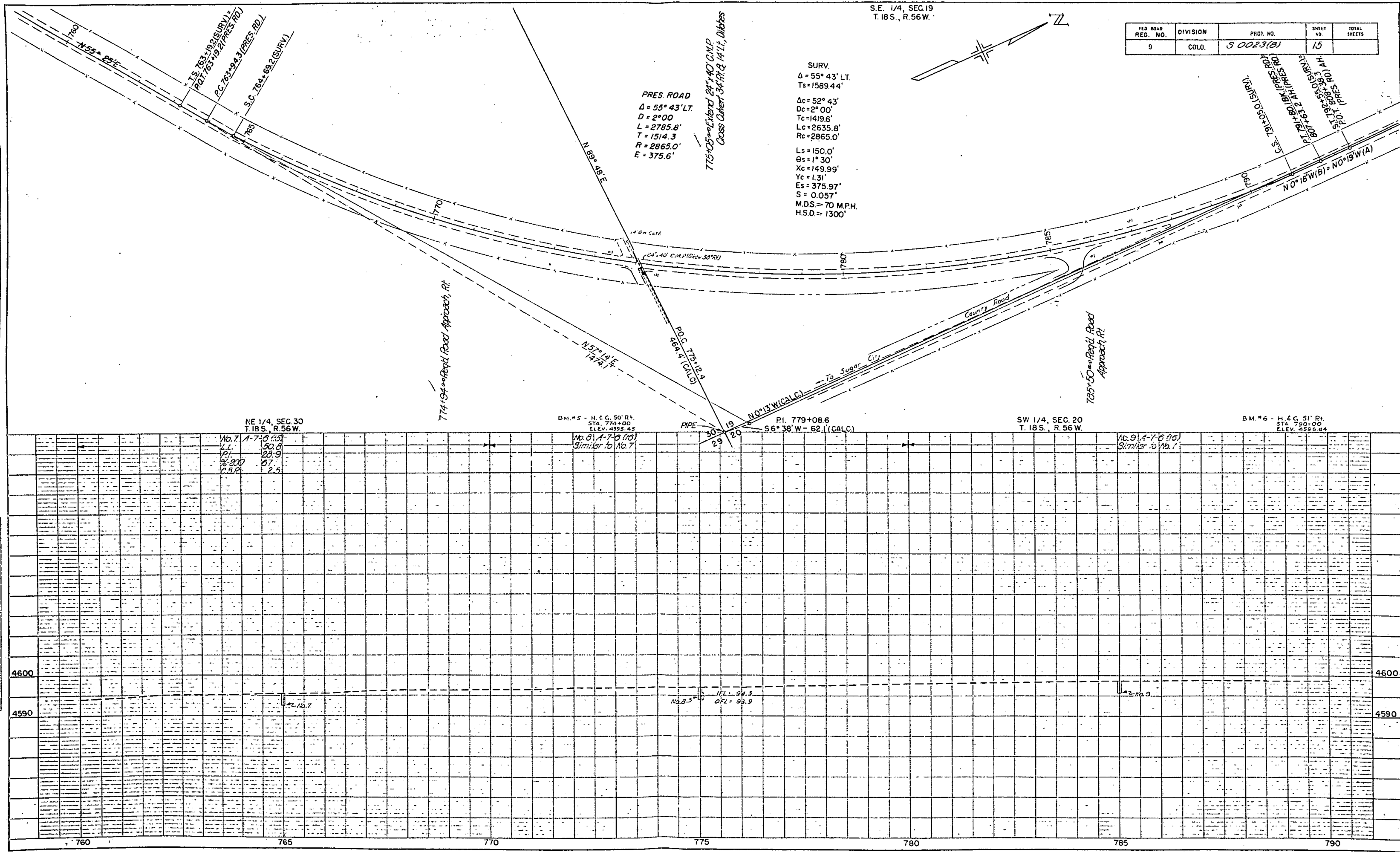
N.P.S.D. > 1300'

No. 5, A=7-6 (15)
Similar to No. 1

No. 6, A=7-6 (15)
Similar to No. 1

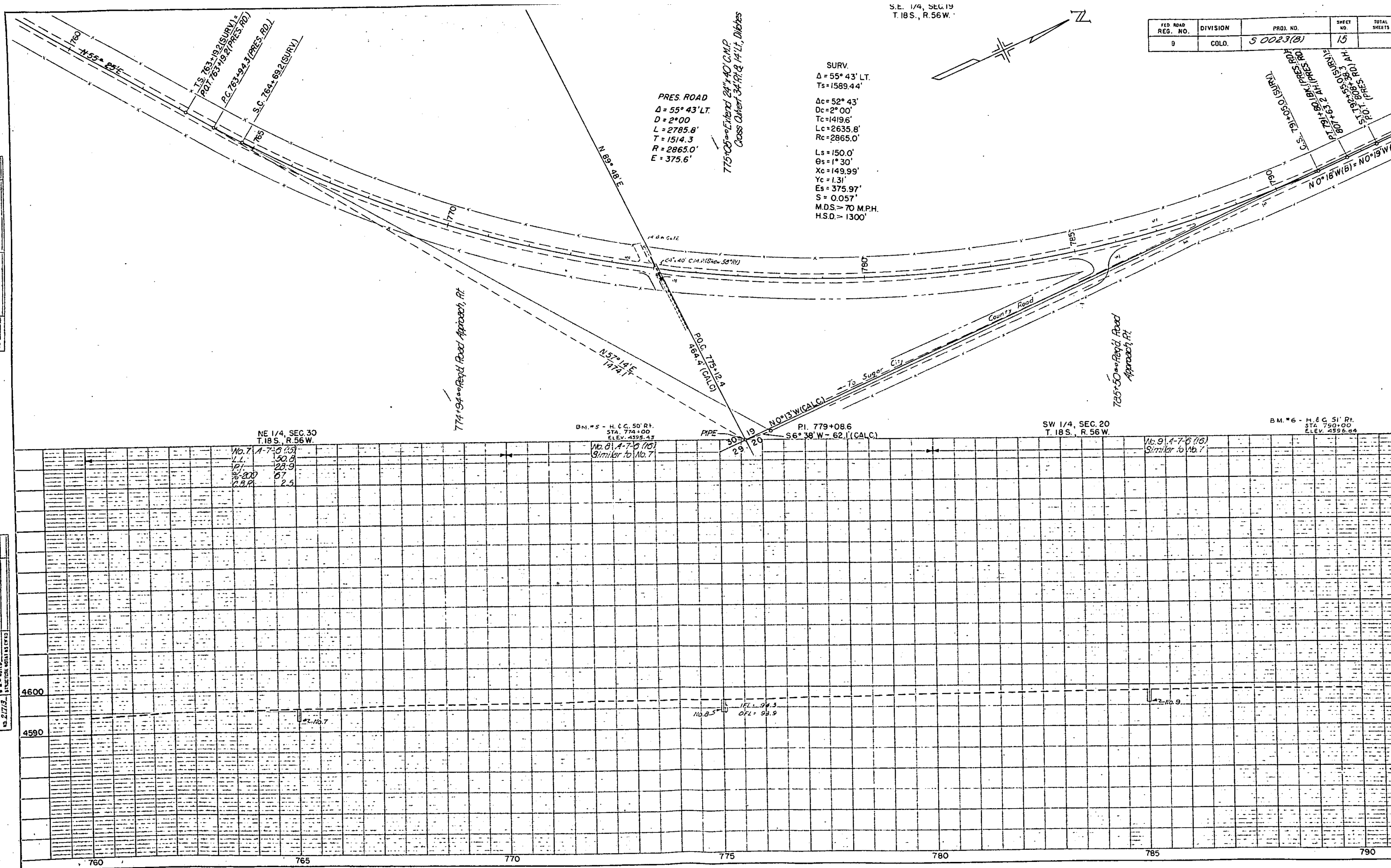
2/17/12
NO 2/17/12

NO 2/17/12
NO 2/17/12



PLAN	BY		DATE
SURVEYED			
PLOTTED			
ALICANT CHECKED			
RT. OF WAY CHECKED			
NO 2773			

PROFILE	BY	DATE
SUBMITTED		
PLICATED		
CRADY'S CHECKED		
8 MAR 1967		



FED. ROAD REG. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	5 0023(B)	15	

SE 1/4, SEC. 19
T. 18 S., R. 56 W.

NE 1/4, SEC. 19
T. 18 S., R. 56 W.

FED. ROAD REG. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	5 0023 (B)	16	



G.S. 791+05.0 (SURV.)
PT. 791+80.1 (PRES. RD) BK= 807+63.2 (PRES. RD.) AH.
ST. 792+55.0 (SURV.) BK= POT. 808+38.3 (PRES. RD.) AH.

BEARING EQUATION
N 0° 18' W BACK= N 0° 19' W AHEAD

EQUATION

SW 1/4, SEC. 20
T. 18 S., R. 56 W.

BM * 7 (U.S. GOV'T. B.M. * Q-271) 53' RT.
STA. 814+73.1
ELEV. 4602.00

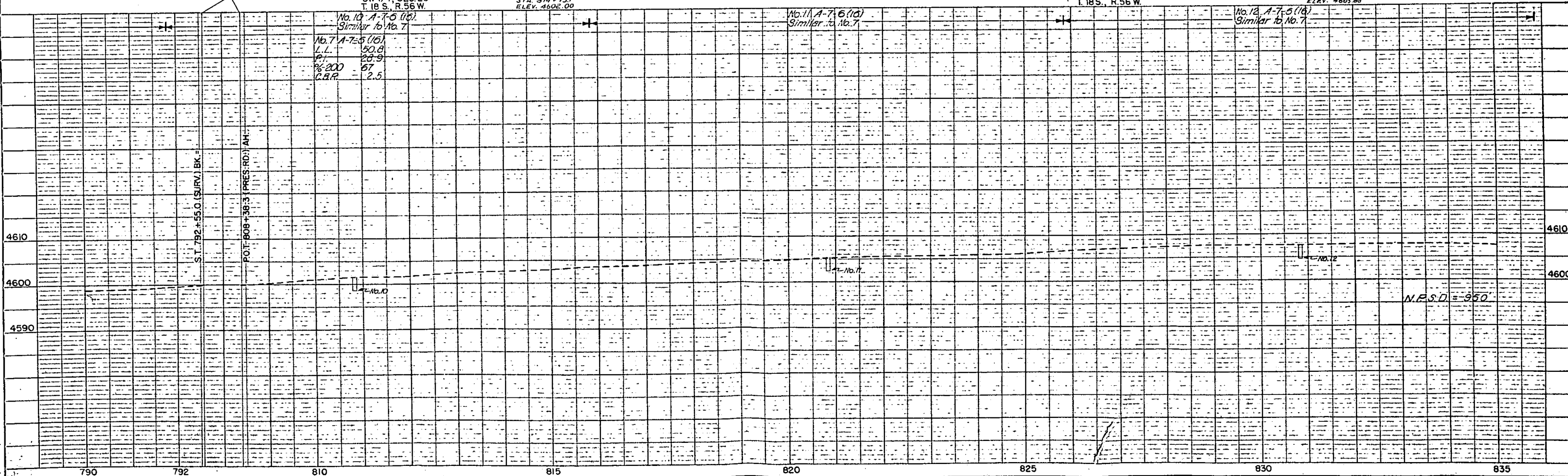
NW 1/4, SEC. 20
T. 18 S., R. 56 W.

BM * 8, H.E.G. 49' RT.
STA. 830+83.1
ELEV. 4605.80

No. 10 A-7-5 (16)
Similar to No. 7
No. 7 A-7-5 (16)
I.L. 50.8
P.T. 20.9
% 200 67
C.B.R. 2.5

No. 11 A-7-6 (16)
Similar to No. 7

No. 12 A-7-5 (16)
Similar to No. 7



4610
4600
4590

4610
4600
4590

790 792 810 815 820 825 830 835

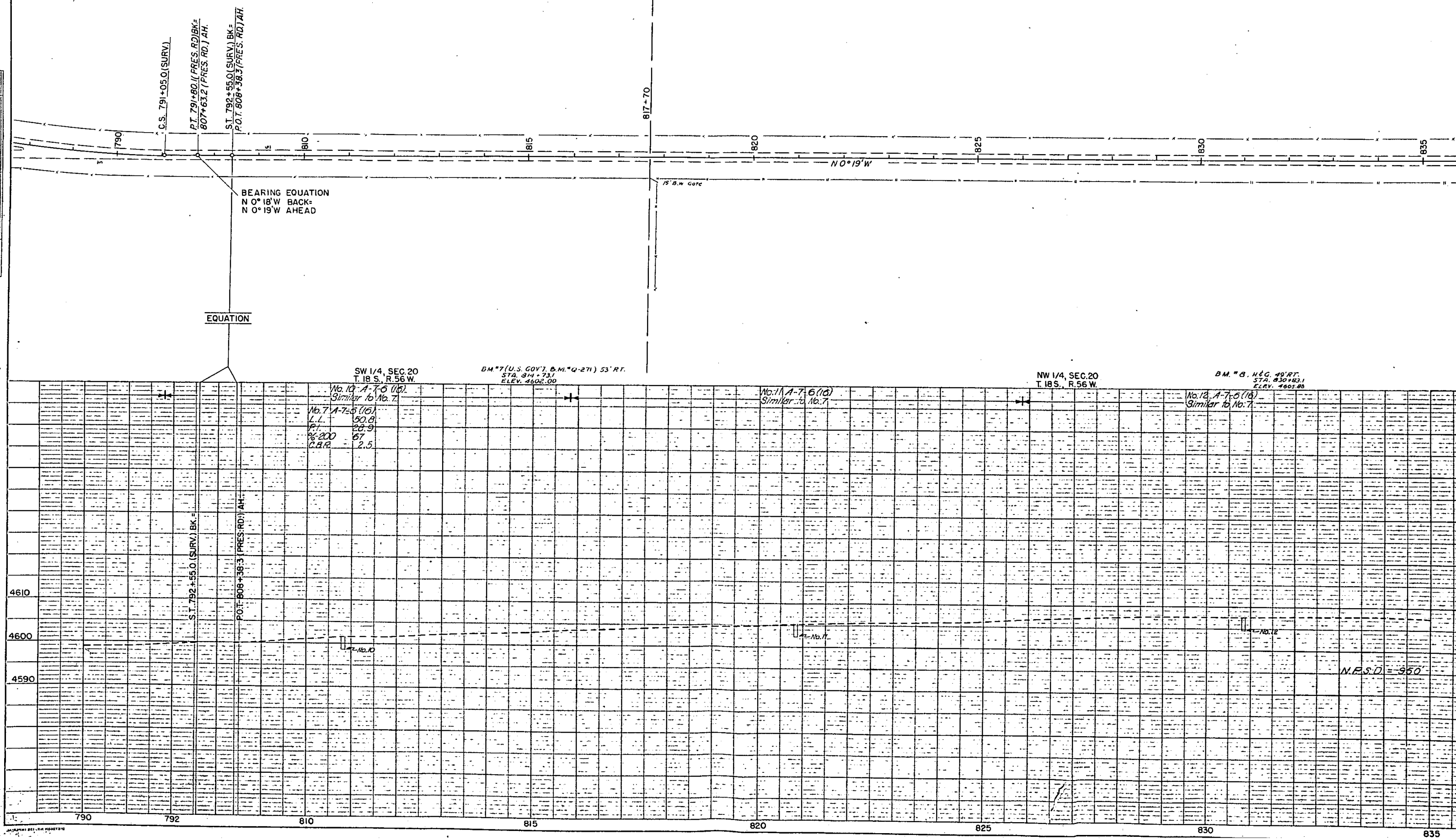
SE 1/4, SEC. 19
T. 18 S., R. 56 W.

NE 1/4, SEC. 19
T. 18 S., R. 56 W.

FED. ROAD REG. NO.	DIVISION	PROJ. NO.	SHEET NO.	TC SH
9	COLO.	5 0023 (B)	16	

PLAN	DATE
SUBMITTED	
NOTED	
APPROVED	
BY	

PROFILE	DATE
SUBMITTED	
NOTED	
APPROVED	
BY	



NE 1/4, SEC. 19
T. 18S., R. 56W.

SE 1/4, SEC. 18
T. 18S., R. 56W.

FED. ROAD REG. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	50023(B)	17	

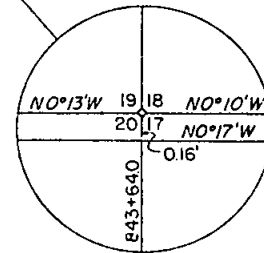


PI. $\Delta = 0^\circ 02' RT.$

PI. $\Delta = 0^\circ 10' RT.$

843+50 $\approx$ Road Approach, Rt.

846+03 $\approx$ Extend 24' x 40'
C.H.P. Cross Culvert 10'
Rt. & 10' Lt. Ditches



NW 1/4, SEC. 20
T. 18S., R. 56W.

B.M. = S. H&G.
STA. 845+33.1
ELEV. 4600.36

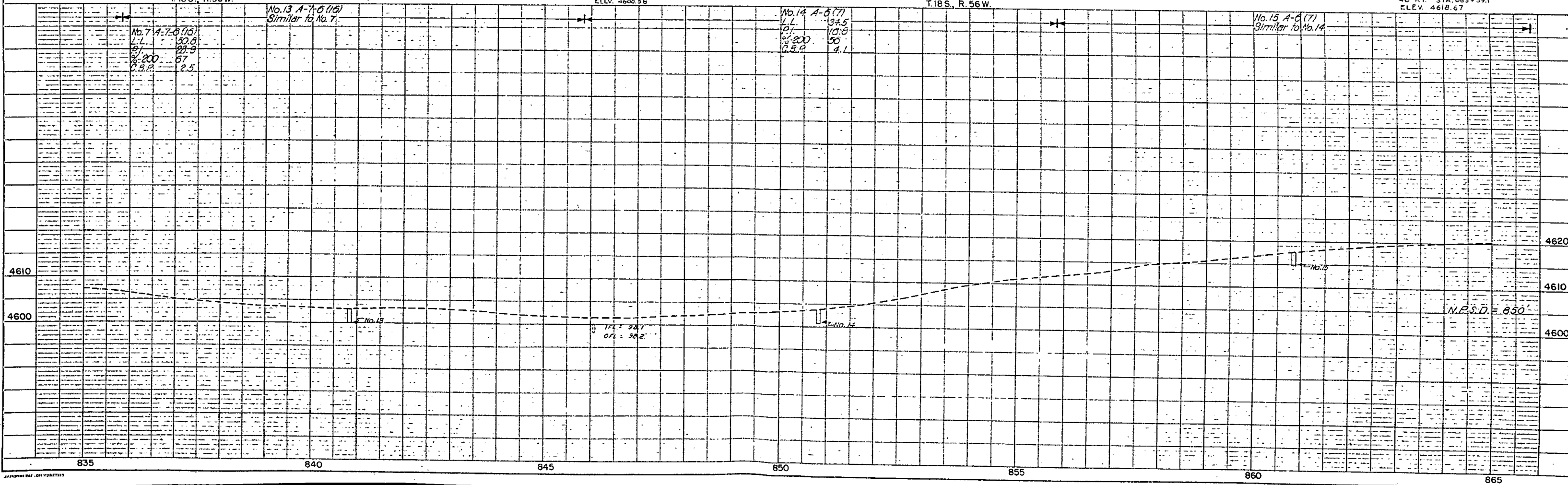
SW 1/4, SEC. 17
T. 18S., R. 56W.

B.M. = 10 (U.S. GOV. "R-60")
48' RT. STA. 863+39.1
ELEV. 4618.67

No. 13 A-7-6 (15)
Similar to No. 7.

No. 14 A-8 (7)
L.L. 34.5
O.L. 10.0
S.P. 50
E.L. 4.1

No. 15 A-8 (7)
Similar to No. 14



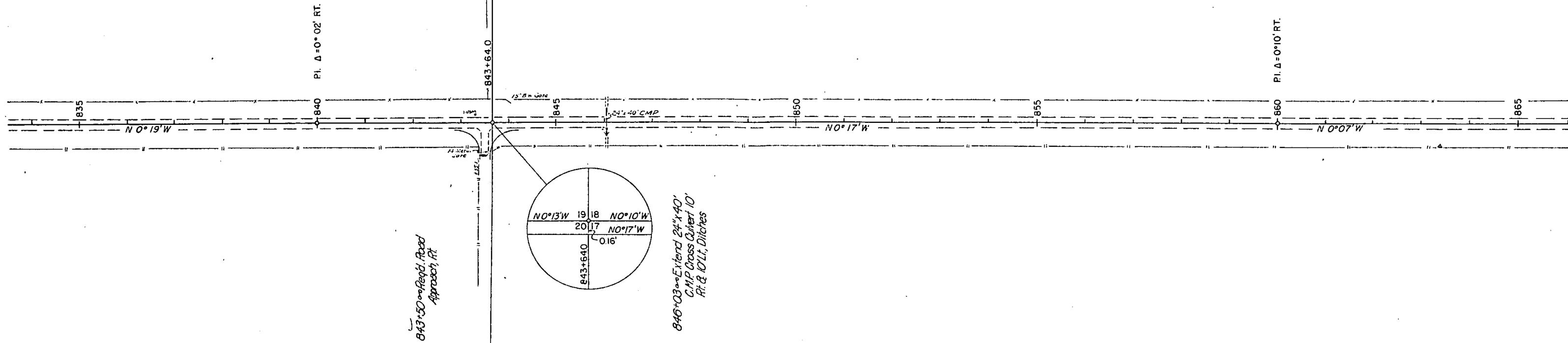
NE 1/4, SEC. 19
T. 18S., R. 56W.

SE 1/4, SEC. 18
T. 18S., R. 56W.



FED. ROAD REG. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	50023(B)	17	

PLAN	DATE
SURVEYED NOTE BOOK NO. 2772	
ALIGNED CHECKED NO. 2773	



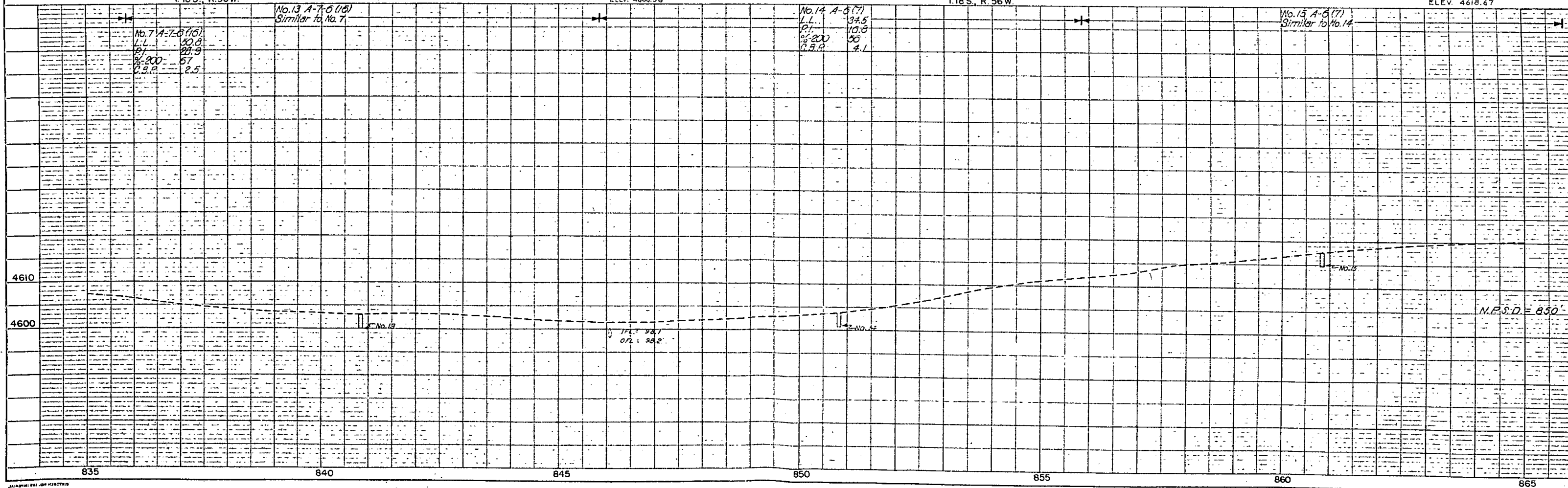
NW 1/4, SEC. 20
T. 18S., R. 56W.

B.M. # 9, H.E.G.
STA. 845+83.1
ELEV. 4600.58

SW 1/4, SEC. 17
T. 18S., R. 56W.

B.M. # 10 (U.S. GOV. # R-80)
48' RT. STA. 863+39.1
ELEV. 4618.67

PROFILE	DATE
SURVEYED NOTE BOOK NO. 2772	
GRADES CHECKED STRUCTURE ELEVATIONS CHECKED	



SE 1/4, SEC. 18
T. 18 S., R. 56 W.

NE 1/4, SEC. 18
T. 18 S., R. 56 W.



FED. ROAD REG. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
0	COLO.	5 0023(B)	18	

869+80.0

868+50.00 Extend 24"x40"
C.M.P. Cross Culvert
6' Ht. & 12" Lt. Ditches

895+96.0

N 0° 07' W

SW 1/4, SEC. 17
T. 18 S., R. 56 W.

BM "H", H&G, RT.
STA. 880+83.1
ELEV. 4627.1

NW 1/4, SEC. 17
T. 18 S., R. 56 W.

No. 10 A-6(7)
Similar to No. 14

No. 17 A-6(7)
Similar to No. 14

No. 18 A-6(7)
Similar to No. 14

No. 14 A-6(7)
L.L. 38.5
P.T. 18.0
Sta. 860+50
C.S.P. 4.1

4630

4620

4610

4640

4630

4620

142' 16.0
DEL. 15.8

No. 10

N.P.S.D. = 830

No. 17

No. 18

865

870

875

880

885

890

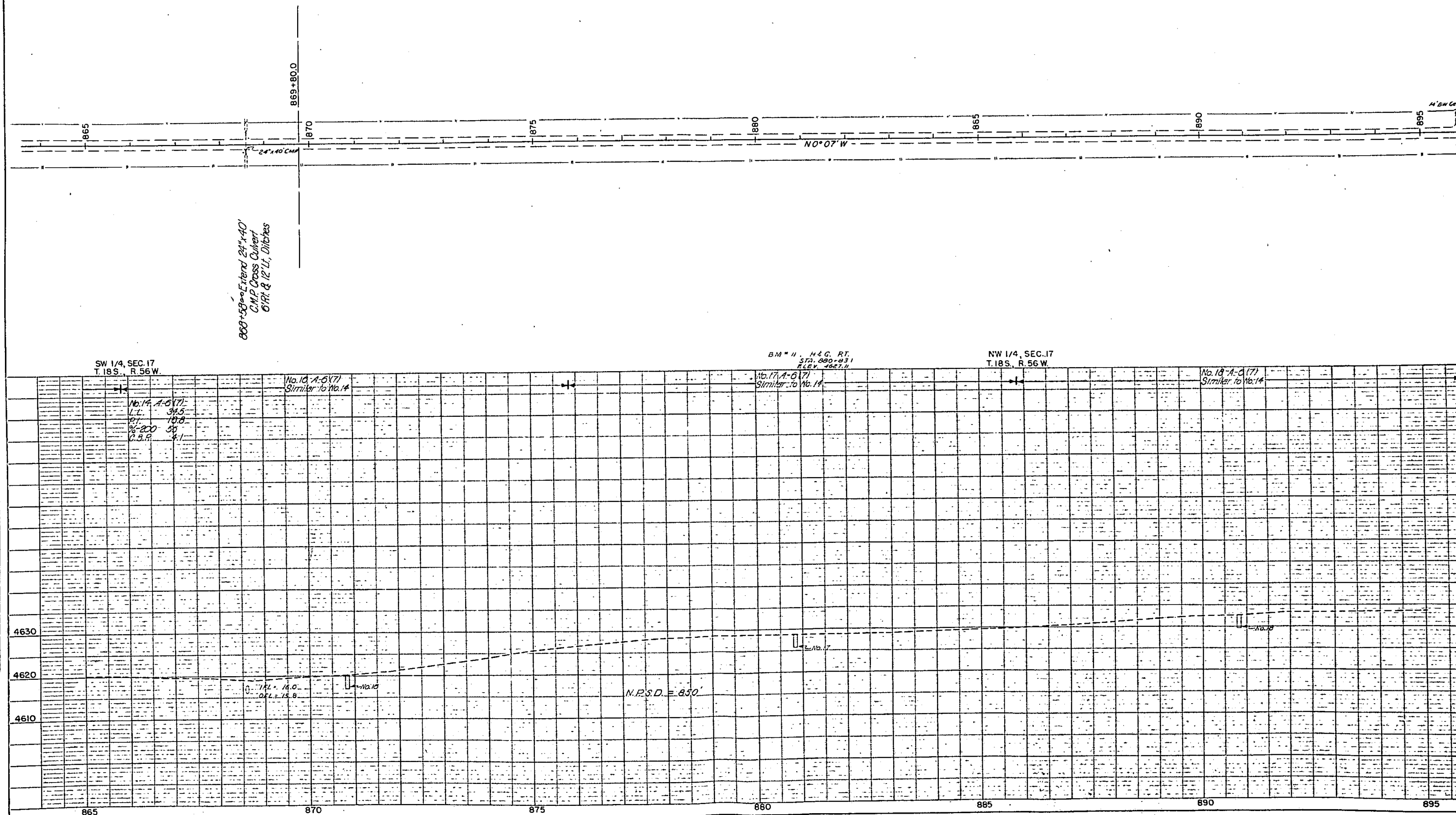
895

NE 1/4, SEC. 18
T. 18 S., R. 56 W.

FED. ROAD REG. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	50023(B)	18	

PLAN	BY	DATE
NOTE BOOK		
2/7/52		
NO. 2713		

PROFILE	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
NO. 2719	GRADES CHECKED _____		
	B.M.'S NOTED _____		
	STRUCTURE MOVED AS CHECKED _____		



NE 1/4, SEC. 18
T. 18 S., R. 56 W.

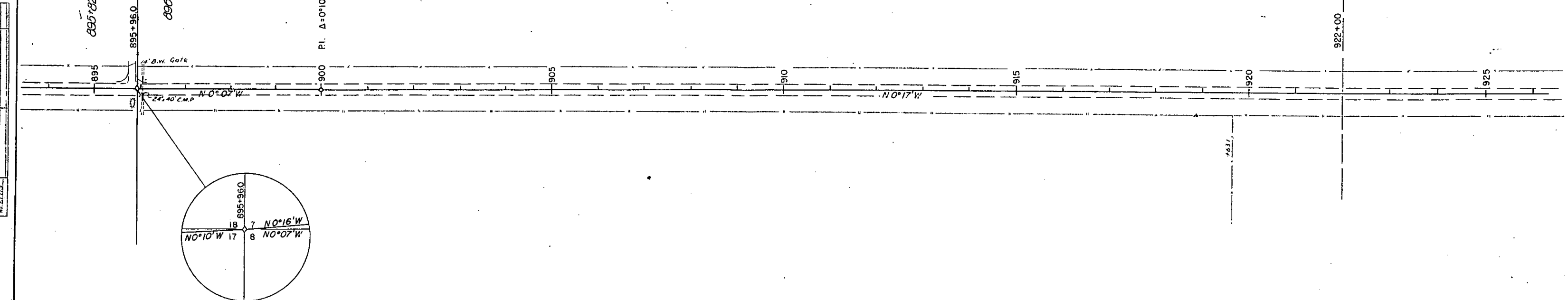
SE 1/4, SEC. 7
T. 18 S., R. 56 W.

FED. ROAD REG. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	5 0023(B)	19	

NE 1/4, SEC. 7
T. 18 S., R. 56 W.



ALIGNED CHECKED
NO. 21/12
NO. 21/12



NW 1/4, SEC. 17
T. 18 S., R. 56 W.

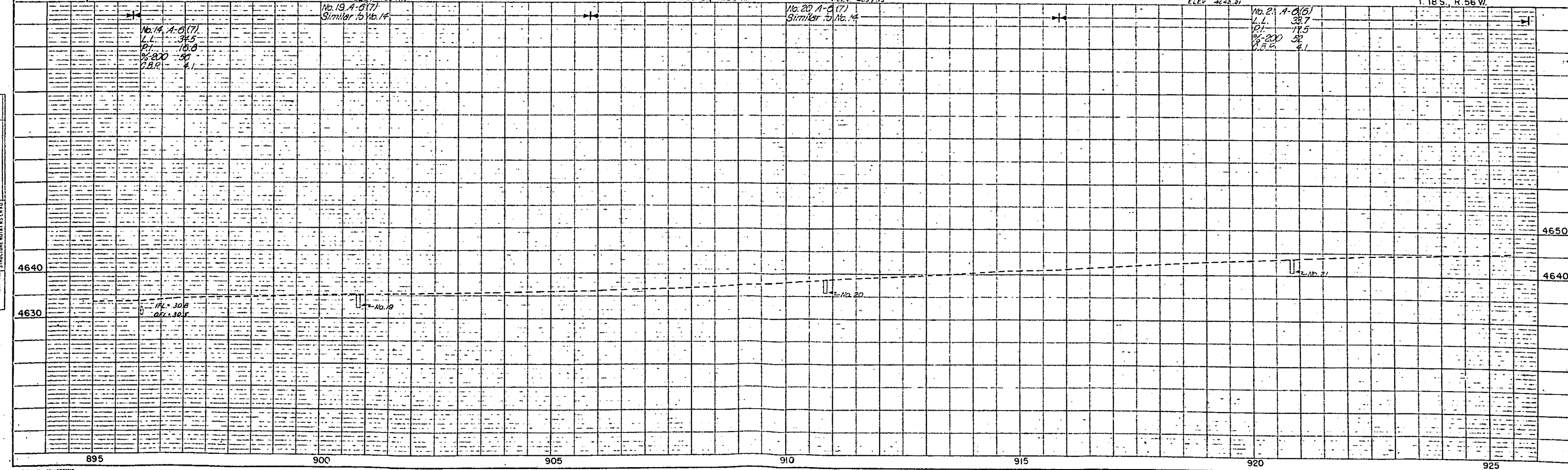
BM # 12 - H.C. 50' RT.
STA. 900+163.1
ELEV. 4634.11

SW 1/4, SEC. 8
T. 18 S., R. 56 W.

BM # 13 - H.C. 50' RT.
STA. 910+131.1
ELEV. 4637.13

BM # 14 (U.S. GOV'T & M. R. 271)
START STA 918+83.1
ELEV. 4642.21

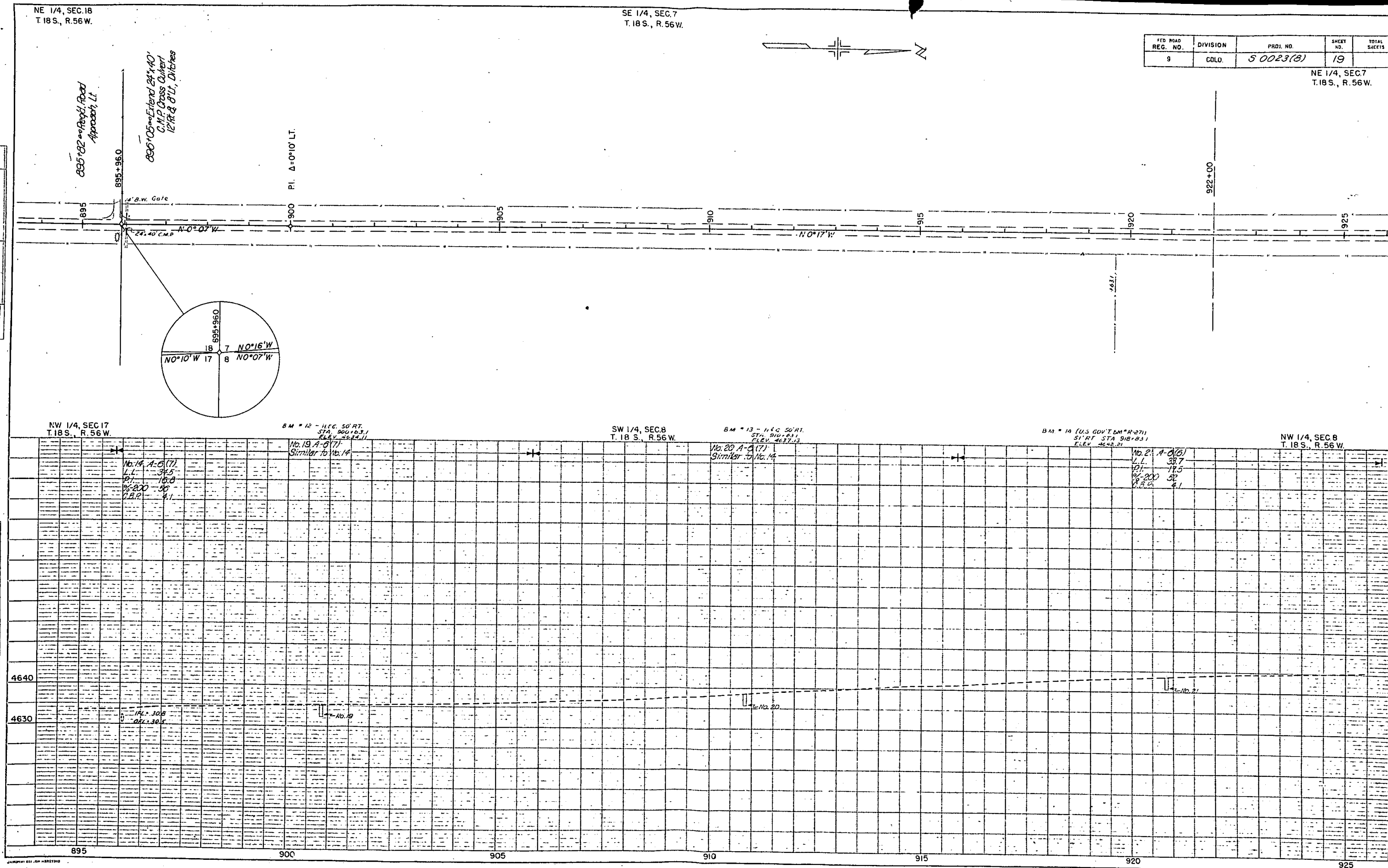
NW 1/4, SEC. 8
T. 18 S., R. 56 W.



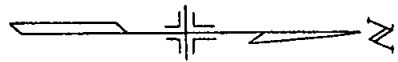
NO. 21/12
NO. 21/12



NE 1/4, SEC.7
T.18 S., R.56 W.

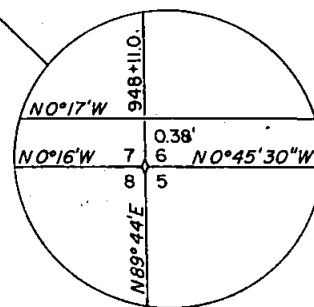
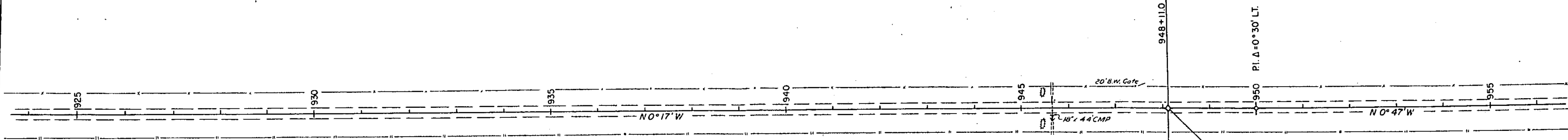


NE 1/4 SEC.7
T.18S., R.56W.



FED. ROAD REG. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S0023 (B)	20	

SE 1/4, SEC.6
T.18S., R.56W.



B.M. #15 - H.I.G. 50' RT.
STA. 930+83.1
ELEV. 4666.50

NW 1/4, SEC.8
T.18S., R.56W.

B.M. #16 - H.I.G. 50' RT.
STA. 945+83.1
ELEV. 4654.96

SW 1/4, SEC.5
T.18S., R.56W.

No. 22 A-5 (C)
Similar to No. 21

No. 23 A-5 (C)
Similar to No. 21

No. 24 A-5 (C)
Similar to No. 21

No. 21 A-5 (C)
L.I. 33.7
P.I. 17.5
% 2.0 52
G.D.P. 4.1

IFL 53.7
OFL 52.8

No. 24

No. 22

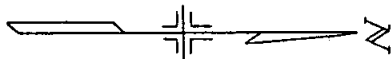
No. 23

NO. 21713

NO. 21713

JANUARY 1951

NE 1/4 SEC.7
T.18S., R.56W.

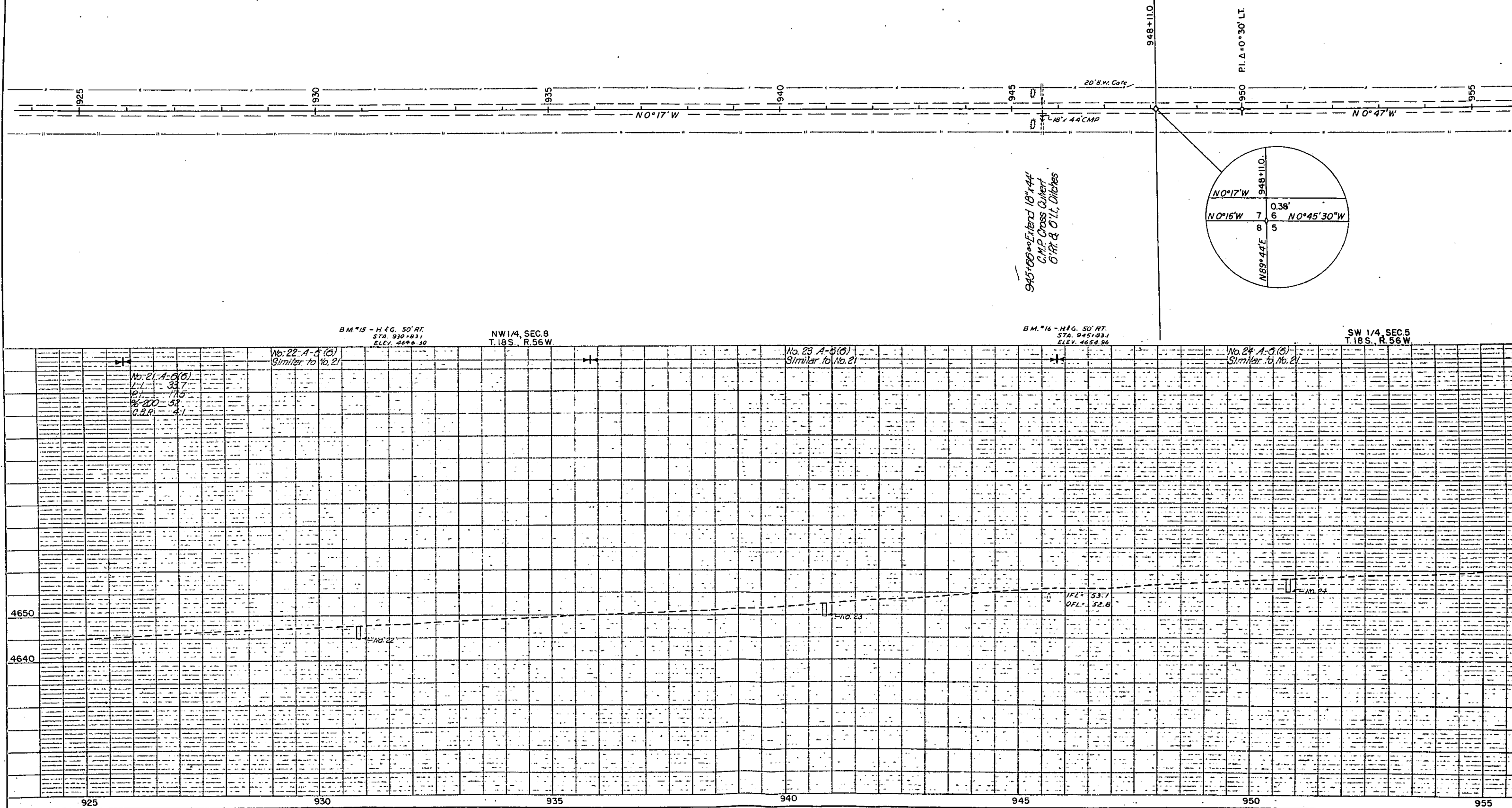


FED. ROAD REG. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	50023 (B)	20	

SE 1/4, SEC.6
T.18S., R.56W.

PLAN	SURVEYED	DATE
4016 BORN	2/7/52	
NO. 2/7/52		

PROFILE	SURVEYED	DATE
4016 BORN	2/7/52	
NO. 2/7/52		



B.M. 15 - H.G. 50' RT.
STA. 930+10.31
ELEV. 4646.30

NW 1/4, SEC.8
T.18S., R.56W.

B.M. 16 - H.G. 50' RT.
STA. 945+10.31
ELEV. 4654.36

SW 1/4, SEC.5
T.18S., R.56W.

No. 21 A-5 (6)
L.L. 33.7
H.L. 17.5
% 200 - 58
C.C.P. 4.1

No. 22 A-5 (6)
Similar to No. 21

No. 23 A-5 (6)
Similar to No. 21

No. 24 A-5 (6)
Similar to No. 21

IFL 53.7
OFL 52.6

No. 22

No. 23

No. 24

T.18 S., R.56 W.

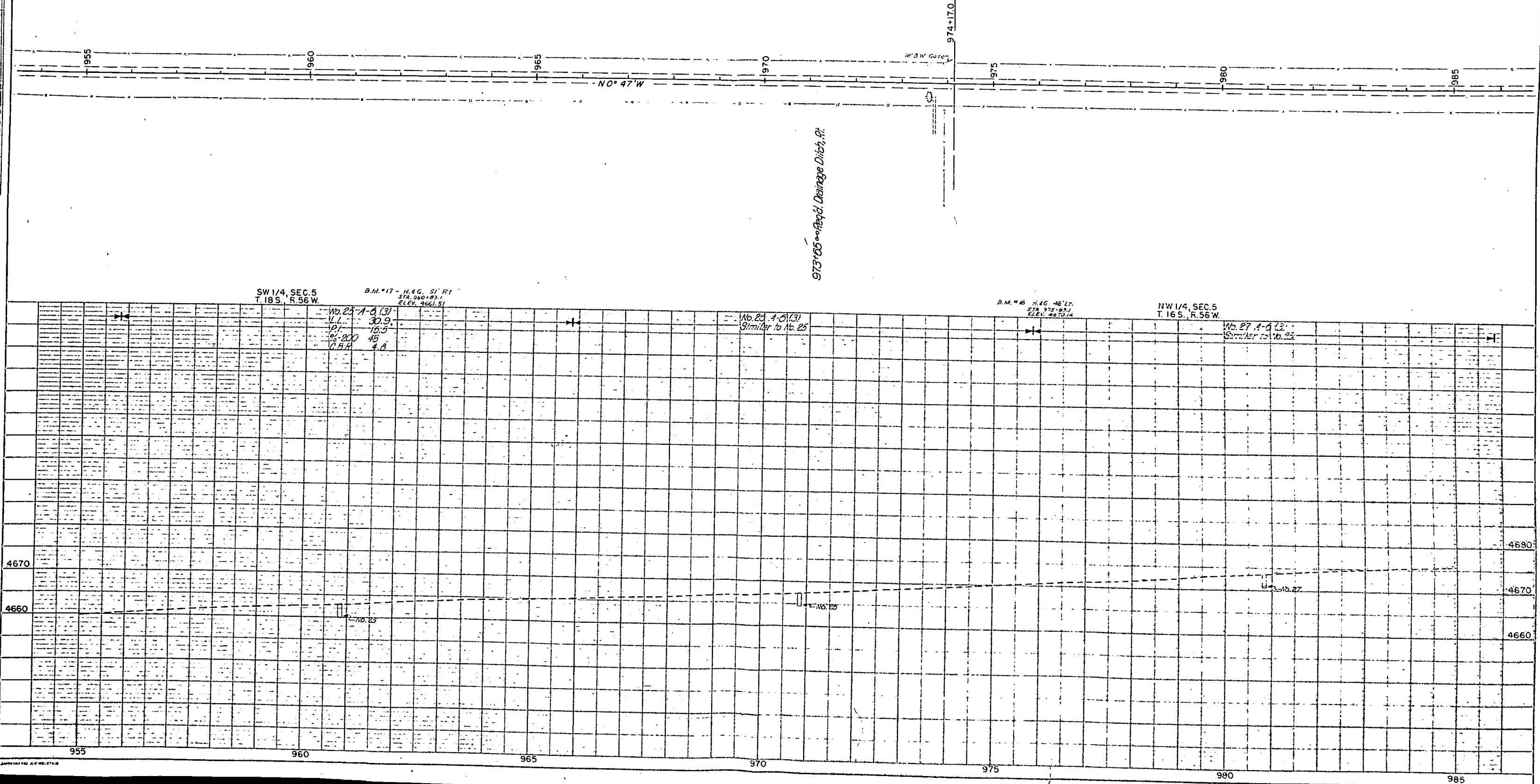


NE 1/4, SEC. 6
T.18 S., R.56 W.

REG. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	5 0023(B)	21	

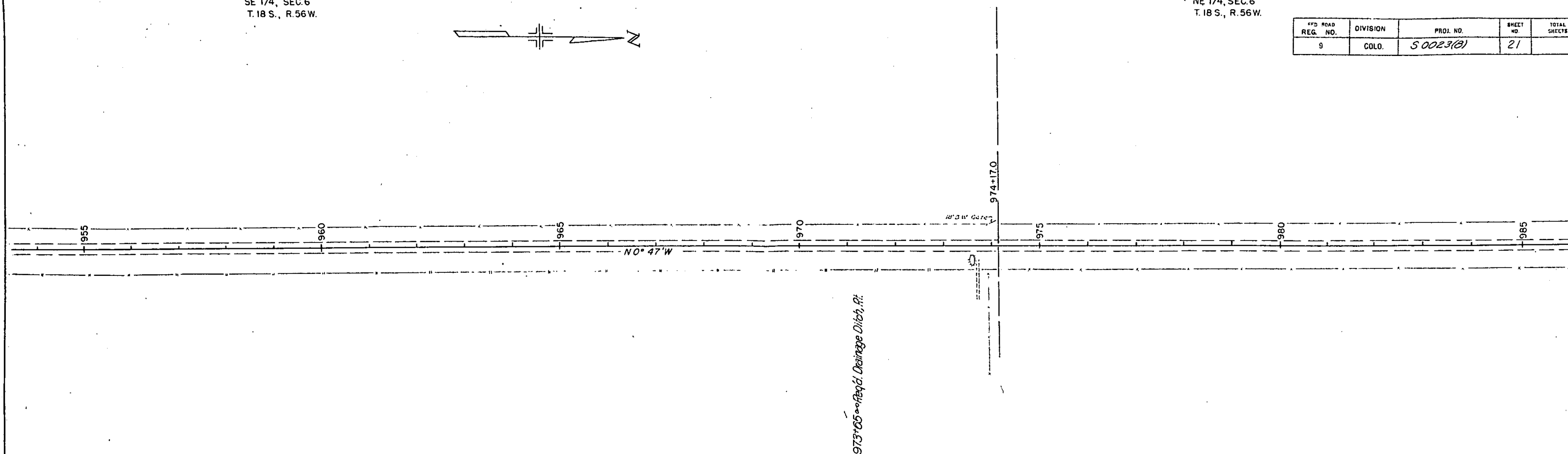
FILED UNDER
2/7/72
NO. 2772

NO. 2772
B. M. & AUTO.
STRUCTURE NOTATIONS ON 10

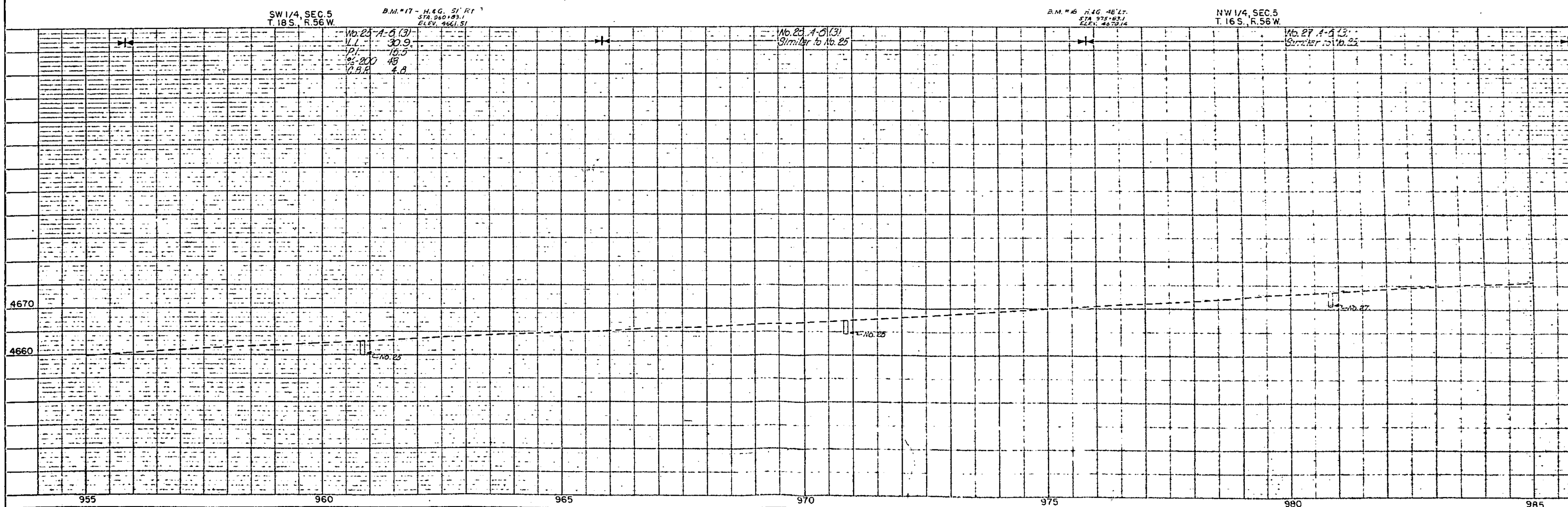


CFD ROAD REG. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	S0023(B)	21	

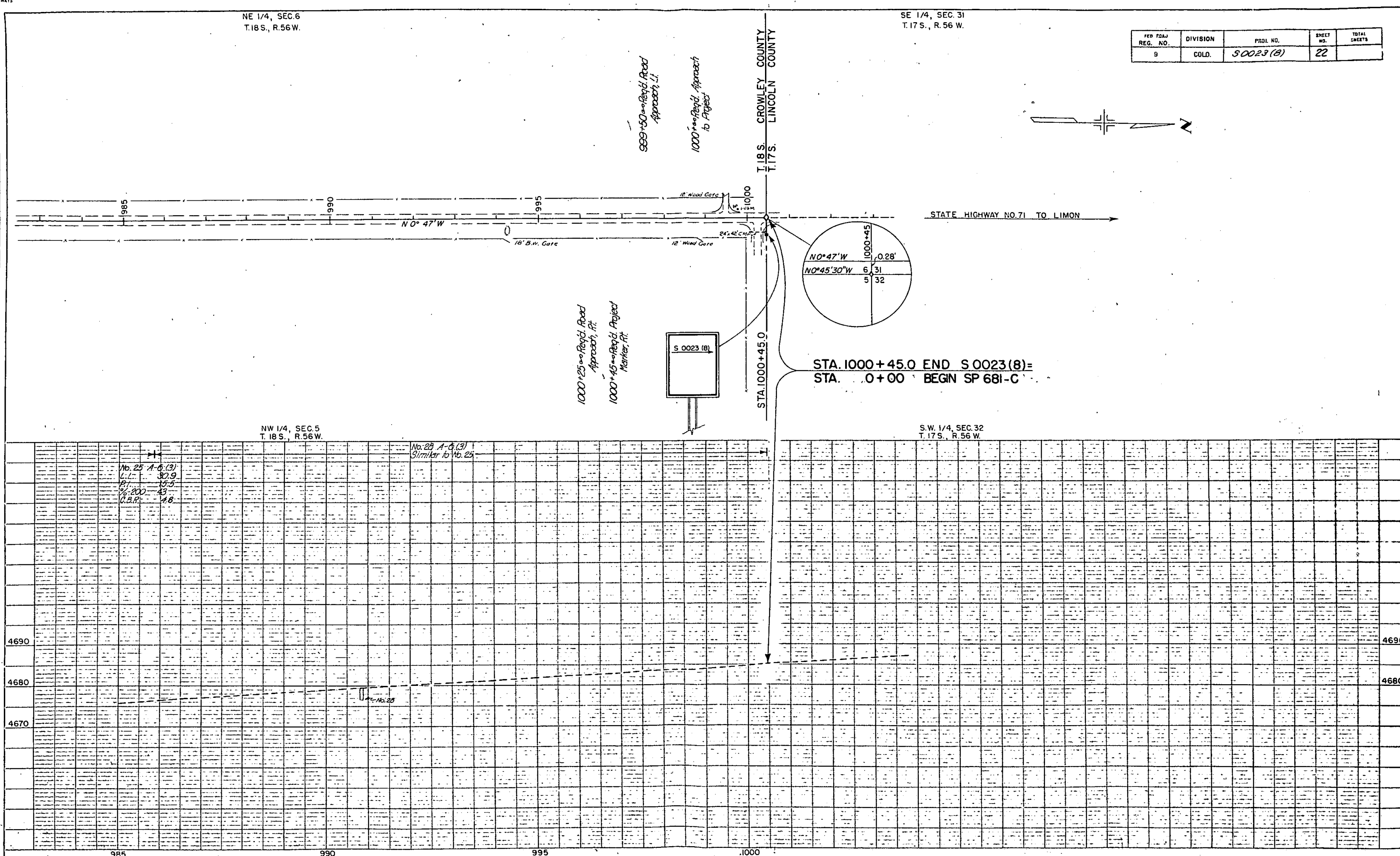
PLAN	SUBMITTED	BY	DATE
4016 BOOK	PLOTTED		
21712	ALIGNED CHECKED		
NO. 21713	RT. OF WAY CHECKED		



DATE	DT		
SURVEYED			
PLANTED			
CHARGES CHECKED			
B. N. L. NOTED			
STRUCTURE LOCATES CHAD			



NO 21713	STRUCTURE NOTAT NS CHKD		
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FED PROJ REG. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLD.	50023 (B)	22	

PLAN	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
NO 21713	ALIGNMENT CHECKED _____		
	RT. OF WAY CHECKED _____		

PROFILE	BY	DATE
SUGGESTED		
PLOTTED		
GRADES CHECKED		
D M L NOTED		
STRUCTURE NOTED AS CHECKED		

