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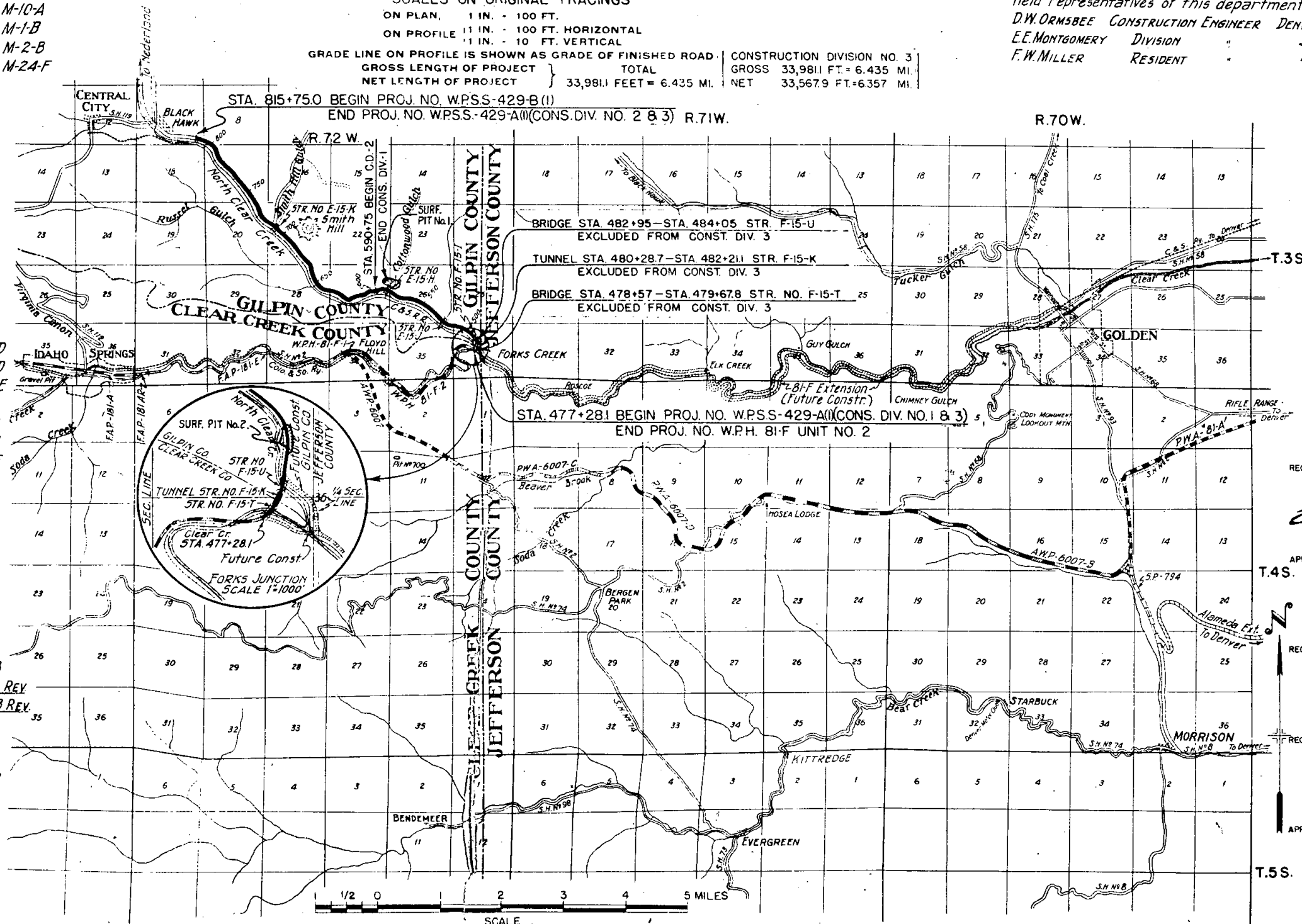
COLORADO STATE HIGHWAY DEPARTMENT PLAN AND PROFILE OF PROPOSED U.S. WORKS PROGRAM HIGHWAY PROJECT NO. W.P.S.S.-429-A (I) STATE HIGHWAY NO. 119 CLEAR CREEK & GILPIN COUNTIES

SCALES ON ORIGINAL TRACINGS

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 TOTAL 33,981.1 FEET = 6.435 MI.
 NET LENGTH OF PROJECT 33,981.1 FEET = 6.435 MI.

CONSTRUCTION DIVISION NO. 3
 GROSS 33,981.1 FT. = 6.435 MI.
 NET 33,567.9 FT. = 6.357 MI.



CONVENTIONAL SIGNS

CENTER LINE OF SURVEY
 RIGHT OF WAY LINE
 SECTION LINE
 ONE-QUARTER SECTION LINE
 POLE LINE
 RAILROAD

NOTE

It is recommended that bidders on this project go over the plan details with one of the following field representatives of this department.
 D.W. ORMSBEE CONSTRUCTION ENGINEER DENVER, COLO.
 E.E. MONTGOMERY DIVISION
 F.W. MILLER RESIDENT

RECOMMENDED FOR APPROVAL

[Signature] 9/6/39
 ASSISTANT ENGINEER DATE

APPROVED

T.4S.

[Signature]
 STATE HIGHWAY ENGINEER DATE
 Aug. 16, 1939.

RECOMMENDED FOR APPROVAL

DISTRICT ENGINEER
 PUBLIC ROADS ADMINISTRATION
 FEDERAL WORKS AGENCY

RECOMMENDED FOR APPROVAL

CHIEF, WESTERN REGION
 PUBLIC ROADS ADMINISTRATION
 FEDERAL WORKS AGENCY

APPROVED

T.5S.

COMMISSIONER
 PUBLIC ROADS ADMINISTRATION
 FEDERAL WORKS AGENCY

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6. MISCELLANEOUS QUANTITIES
7. DETAILS OF TUNNEL SECTIONS
- 8-14. DETAILS OF BRIDGE STA. 478+
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23. STANDARD NAME PLATE
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25. " " " (8'x6')(8'x8')
26. " DOUBLE " " (10'x6')(10'x10')
27. " HEADWALLS FOR C.M.P. CULVERTS
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1. SKETCH MAP & TITLE SHEET
2. TYPICAL SECTIONS
3. SUMMARY OF APPROXIMATE QUANTITIES
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19. SPECIAL TRIPLE 14'x8' CONCRETE BOX CULVERT
20. DETAILS & SUMMARY OF QUANTITIES FOR SPEC. CONC. BOX CULVERTS
21. " OF TREATED TIMBER RAILROAD CULVERT STA. 742+(6'x6')
22. " " " 757+(10'x8')
24. STANDARD CONC. BOX CULVERTS (4'x4')(6'x6')
25. " " " (8'x8')(10'x6')(10'x8')
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31. " STRUCTURE NUMBER LETTERING
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2. TYPICAL SECTIONS
3. SUMMARY OF APPROXIMATE QUANTITIES
6. MISCELLANEOUS QUANTITIES
28. STANDARD TIMBER GUARD POSTS
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COLORADO STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED U.S. WORKS PROGRAM HIGHWAY PROJECT NO. W.P.S.S.-429-A (I) STATE HIGHWAY NO. 119 CLEAR CREEK & GILPIN COUNTIES

New Sheet, 4-27-38 W.W.H.
Rev. Constr. Div. No. 1, 2 & 3 Combined 5.25.38
Rev. Constr. Div. No. 3 7.25.39 W.W.H. W.W.H.
C.B. Tracing made from original sheet Rev. 7.25.39
Rev. 11-1-39 Stand. M-21-B & M-22-B-E.A.R.

FED. ROAD DIST. NO.	STATE	U.S.W.P.H. PROJ. NO.
3	COLO.	W.P.S.S.-429-A(I) CONST. DIV. NO. 3

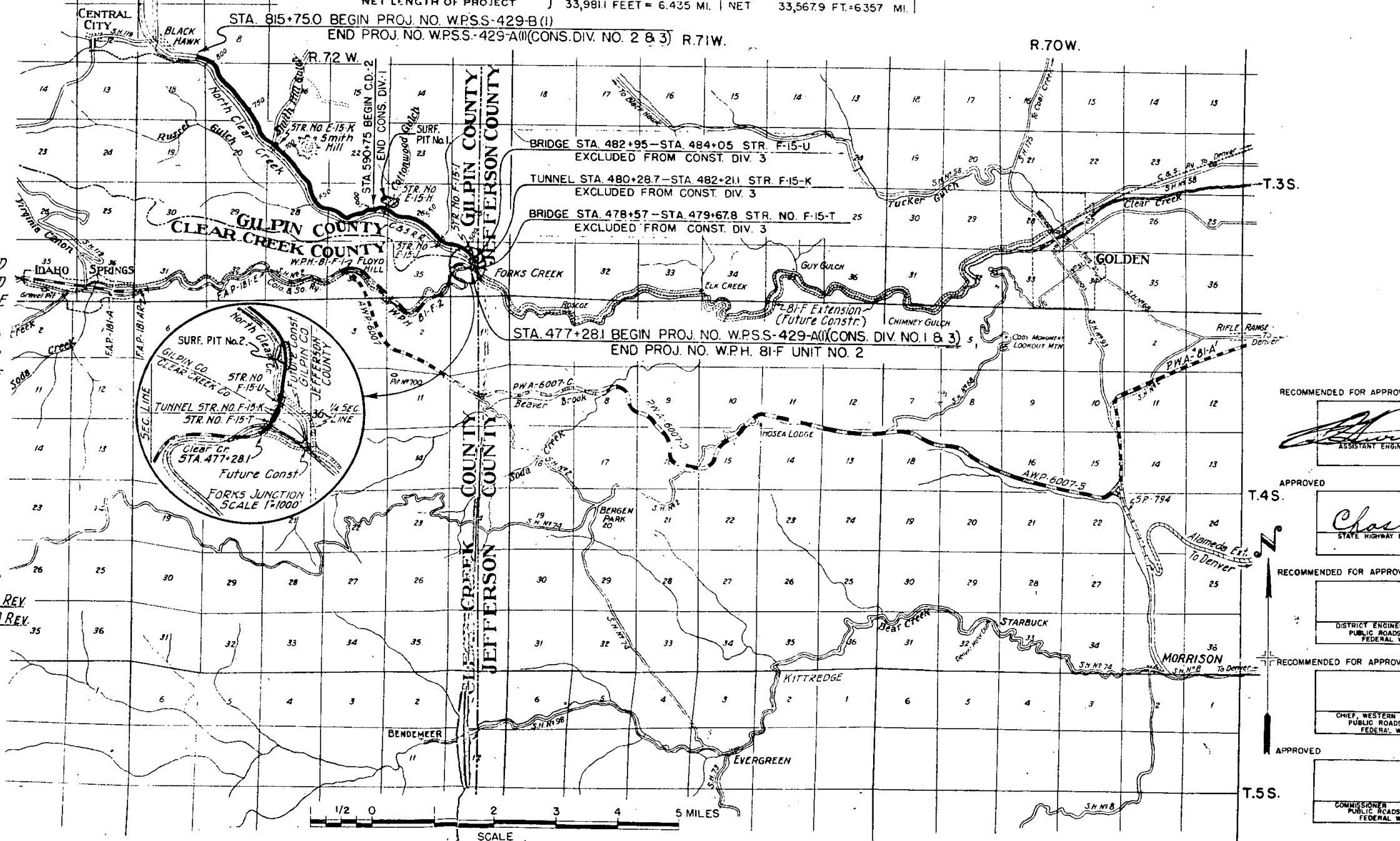
CONVENTIONAL SIGNS

CENTER LINE OF SURVEY 494
RIGHT OF WAY LINE
SECTION LINE
ONE-QUARTER SECTION LINE
POLE LINE
RAILROAD

NOTE

It is recommended that bidders on this project go over the plan details with one of the following field representatives of this department.
D.W. ORMSBEE CONSTRUCTION ENGINEER DENVER, COLO.
E.E. MONTGOMERY DIVISION
F.W. MILLER RESIDENT

SCALES ON ORIGINAL TRACINGS
ON PLAN, 1 IN. = 100 FT.
ON PROFILE 11 IN. = 100 FT. HORIZONTAL
1 IN. = 10 FT. VERTICAL
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD
GROSS LENGTH OF PROJECT } TOTAL
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CONSTRUCTION DIVISION NO. 3
GROSS 33,981.1 FT. = 6.435 MI.
NET 33,567.9 FT. = 6.357 MI.



RECOMMENDED FOR APPROVAL

ASSISTANT ENGINEER

APPROVED

STATE HIGHWAY ENGINEER

RECOMMENDED FOR APPROVAL

DISTRICT ENGINEER
PUBLIC ROADS
FEDERAL WORKS

RECOMMENDED FOR APPROVAL

CHIEF, WESTERN
PUBLIC ROADS
FEDERAL WORKS

APPROVED

COMMISSIONER
PUBLIC ROADS
FEDERAL WORKS

WPSS. 429-A(2)

STA. 479+67.8 TO STA. 482+95

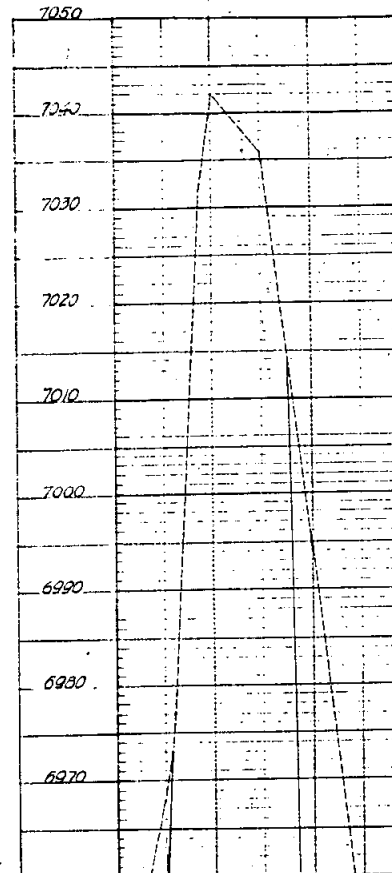
- 3-479+97.8-Req'd. Reinf. Conc. Bridge Slab (Details on Sht. # 7)
- 3-480+28.7-Req'd. Rem. 6"x12"x40' Timber Header (Details on Sht. # 7)
- 1-480+28.7-Req'd. 100 Sq. Yds. Conc. Pavement (Details on Sht. # 7)
- 1-480+28.7-Req'd. 40 Cu. Yds. Sel. Material for Roadbed (Details on Sht. # 7)
- 1-480+38.7-Req'd. Tunnel Portal (Details on Sht. # 4 & 6)
- 1-482+21.1-Req'd. 480 Sq. Yds. Concrete (Details on Sht. # 3)
- 1-482+21.1-Req'd. 395 Lin. Ft. Comb. Recessed (Details on Sht. # 3)
- 1-482+21.1-Req'd. 1000 Sq. Ft. Conc. Sidewalks (Details on Sht. # 3)
- 1-482+21.1-Req'd. Tunnel Portal (Details on Sht. # 5 & 6)
- 1-482+65-Req'd. 140 Sq. Yds. Conc. Pavement (Details on Sht. # 7)
- 1-482+95-Req'd. Reinf. Conc. Bridge Approach (Details on Sht. # 7)
- 1-482+95-Req'd. 40 Cu. Yds. Sel. Material for Roadbed (Details on Sht. # 7)
- 1-482+95-Req'd. Rem. 6"x12"x40' Timber Header (Details on Sht. # 7)

Material for above locations is estimated from Pit Rt. & Lt. 492+00 & is to be classified as "Unclassified Excavation." Estimated overhaul involved:
 19+ -480+ -400 Sta. Yds. Overhaul.
 10+ -482+ -450 Sta. Yds. Overhaul.
 32+ -350 Sta. Yds. Overhaul.

Sta. 477+ to 590+ - Req'd 100 cu. yds. Boulder Excavation. This excavation will be required at various locations on the Project to be designated by the Engineer during construction. This quantity may be materially increased or decreased during construction to meet actual construction requirements.

Revised: 4-27-38 H.J.S.
 Revised Index: 5-25-38 H.J.S.
 Rev. Abut. No. 1, F-15-U, 4-27-39 R.A.D.
 Rev. WPSS-429-A(1) C.D. #3-7-25-39 H.J.S.
 Rev. WPSS-429-A(2) - 8-5-39 H.J.S.
 Rev. WPSS 429-A(1) C.D. #3 & 429-A(2) 10-11-39 T.T.

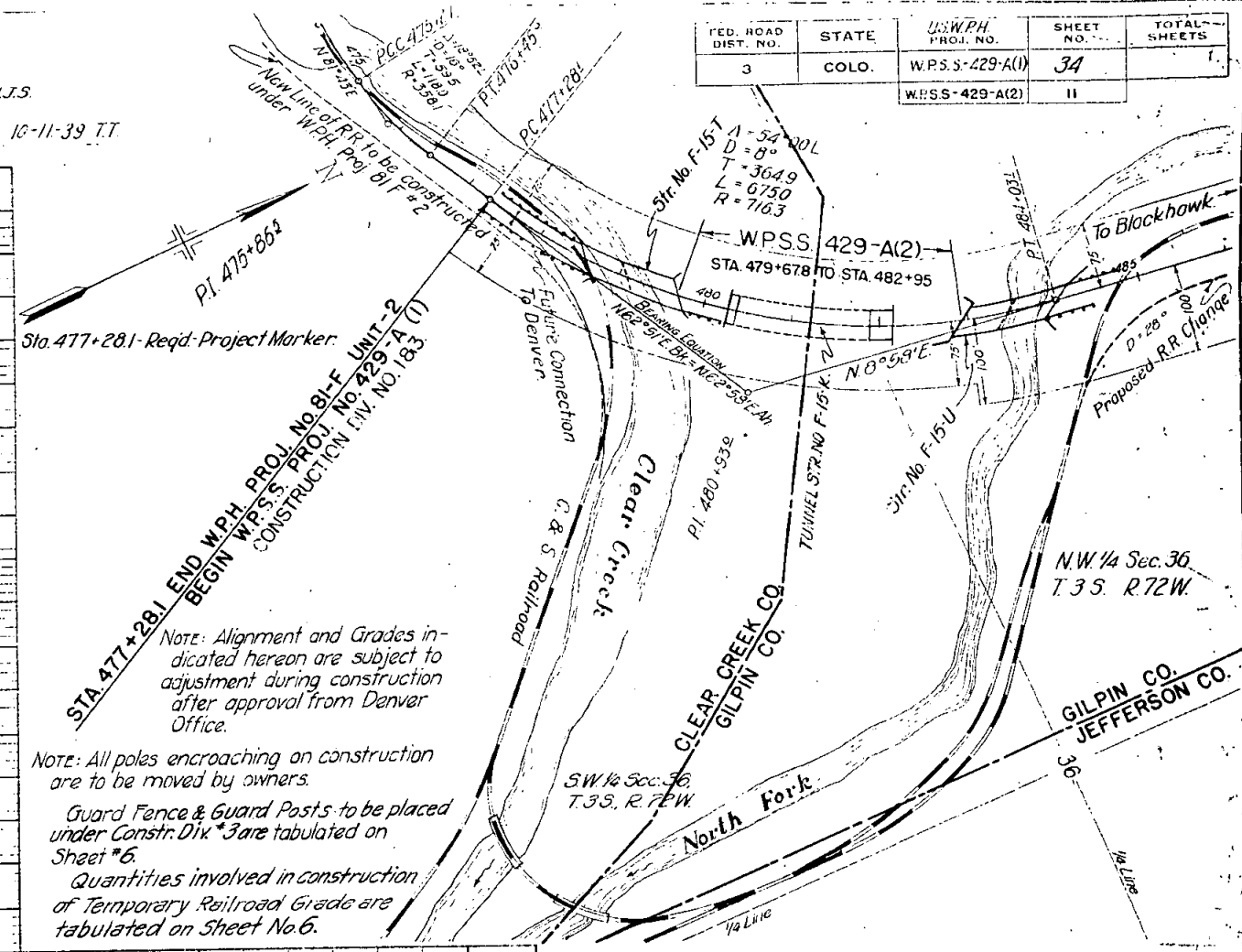
STA. 477+28.1 END W.P.H. PROJECT NO. 81-F UNIT NO. 2
 BEGIN WPSS PROJECT NO. 429-A(1)
 CONSTRUCTION DIV. NO. 183



Sta. 477+28.1-Req'd. Project Marker.

NOTE: Alignment and Grades indicated hereon are subject to adjustment during construction after approval from Denver Office.
 NOTE: All poles encroaching on construction are to be moved by owners.
 Guard Fence & Guard Posts to be placed under Constr. Div. #3 are tabulated on Sheet #6.
 Quantities involved in construction of Temporary Railroad Grade are tabulated on Sheet No. 6.

FED. ROAD DIST. NO.	STATE	U.S.W.P.H. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	W.P.S. 429-A(1)	34	1
		W.P.S. 429-A(2)	11	



Sta. 480+50+ to 482+00+ - Req'd 150' Tunnel. (Details on Sheet #7)

Excavation from Channel Changes shall be used for constructing dikes, filling old channels, or in roadway embankments, as directed by the Engineer.

Sta. 478+57 - 479+67.8 - Req'd. 2 Spans @ 54' Conc. & I Beam Bridge (Details on Shts. #8 to #14)

Sta. 482+95 - 484+05 - Req'd. 2 Spans @ 51' Conc. & I Beam Bridge (Details on Shts. #15 to #18) & 600 Cu. Yds. Uncl. Excav. for Channel Improvement.

WPSS. 429-A(1)

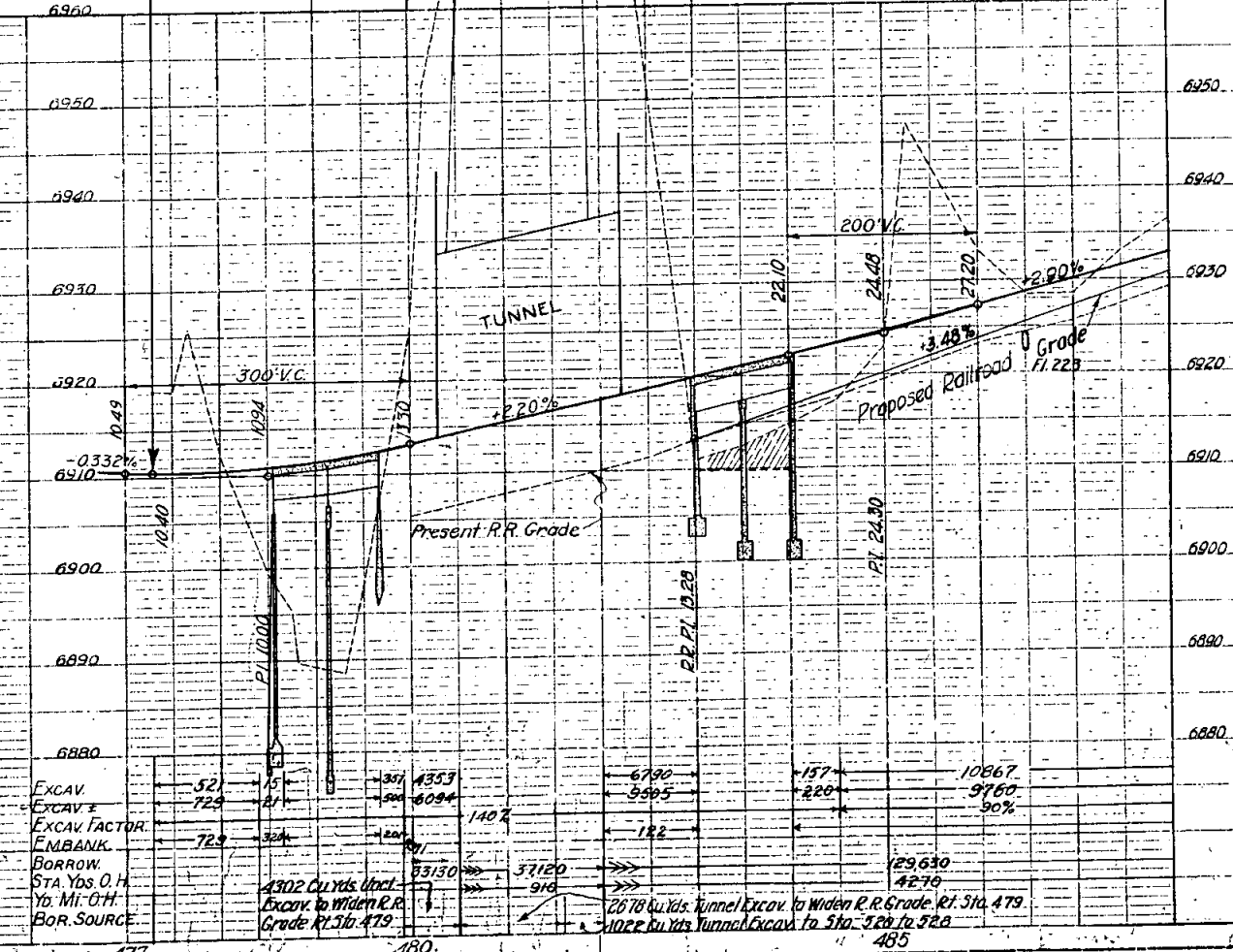
Construction Div. #3 consists of Blading and Grading Roadway, Placing Surfacing Material, Guard Fences & Posts on the Project.

Surfacing Plan on Sht. No. 6 of Plans.
 Guard Fencing Req'd. on Sht. No. 6 of Plans.
 Guard Posts Req'd. on Sht. No. 6 of Plans.

Sta. 477+28.1 - 815+75 Req'd 6.4 Miles Blading & Grading Roadway.

NOTES ON STRUCTURE NO. F-15-T	
PRESENT STRUCTURE	PROPOSED STRUCTURE
Span: 2 @ 34'	Position referred to present structure.
Clear Roadway: 30'-0"	Span: 2 @ 34'
Clear Waterway: 30'-0"	Clear Roadway: 30'-0"
Type of Superstructure: Conc. & I Beam	Clear Waterway: 30'-0"
Type of Substructure: Conc. Abut. & Pier	Type of Superstructure: Conc. & I Beam
Requirements as to removal: None	Type of Substructure: Conc. Abut. & Pier
STREAM DATA:	Detour Structure requirements: None
Drainage Area in Sq. Mi. 290	R.R. Siding Forks Creek. Haul to Bridge Site 1/4 Mi.
Velocity during high water: 10.0	Nearby structures on same stream.
ELEVATION OF:	Location:
Maximum high water: 6883.5	Waterway:
Normal stage: 6883.5	Record during floods:
Drift: Scour	

NOTES ON STRUCTURE NO. F-15-U	
PRESENT STRUCTURE	PROPOSED STRUCTURE
Span: 2 @ 51'-0"	Position referred to present structure.
Clear Roadway: 30'-0"	Span: 2 @ 51'-0"
Clear Waterway: 30'-0"	Clear Roadway: 30'-0"
Type of Superstructure: Conc. & I Beam	Clear Waterway: 30'-0"
Type of Substructure: Abut. #1 Cantilever, Pier #2 Conc.	Type of Superstructure: Conc. & I Beam
Requirements as to removal: None	Type of Substructure: Abut. #1 Cantilever, Pier #2 Conc.
STREAM DATA:	Detour structure requirements: None
Drainage Area in Sq. Mi. 62	R.R. Siding Forks Creek. Haul to bridge site 500 ft.
Velocity during high water: 10.0	Nearby structures on same stream.
ELEVATION OF:	Location:
Maximum high water: 6892.5	Waterway:
Normal stage: 6892.5	Record during floods:
Drift: Scour	



EXCAV.	EXCAV. FACTOR	BORROW	STA. YDS. O.H.	YD. MI. O.H.	BOR. SOURCE
52	729	729	35	15	4353
15	21	21	20	10	6094
35	20	20	20	10	1402
157	220	220	157	10867	90%
37120	910	910	37120	2678	1022
129630	4279	4279	129630	4279	485

W.P.S.S. 429-A(2)

STA. 479+67.8 TO STA. 482+95

- Sta. 479+67.8-479+97.8 - Req'd. Reinf. Conc. Bridge Slab (Details Sht. # 7)
- Sta. 479+67.8 - Req'd. Rem. 6"x12"x40' Timber Header.
- Sta. 479+97.8-480+28.7 - Req'd. 100 Sq Yds. Conc. Pavement. (Details Sht. # 7)
- Sta. 479+67.8-480+28.7 - Req'd. 40 Cu. Yds. Sel. Material for shoulders Rt. & Lt.
- Sta. 480+28.7-480+38.7 - Req'd. Tunnel Portal (Details on Shts. # 4 & 6)
- Sta. 480+28.7-482+21.1 - Req'd. 480 Sq. Yds. Concrete Pavement. (Details on Sht. # 3)
- Sta. 480+28.7-482+21.1 - Req'd. 395 Lin. Ft. Comb. Recessed Reflector Curb & Gutter Rt. & Lt. (Details on Sht. # 3)
- Sta. 480+28.7-482+21.1 - Req'd. 1000 Sq. Ft. Conc. Sidewalks Rt. & Lt. & 50 Cu. Yds. Selected Material to fill under sidewalks. (Details on Sht. # 3)
- Sta. 482+16.4-482+21.1 - Req'd. Tunnel Portal. (Details on Shts. # 5 & 6)
- Sta. 482+21.1-482+65 - Req'd. 140 Sq. Yds. Conc. Pavement. (Details on Sht. # 7)
- Sta. 482+65-482+95 - Req'd. Reinf. Conc. Bridge Approach. (Details on Sht. # 7)
- Sta. 482+21.1-482+95 - Req'd. 40 Cu. Yds. Sel. Material for shoulders Rt. & Lt.
- Sta. 482+95 - Req'd. Rem. 6"x12"x40' Timber Header.

Selected Material for above locations is estimated to be available from Pit Rt. & Lt. 492+00 & is to be classified and paid for as "Unclassified Excavation."

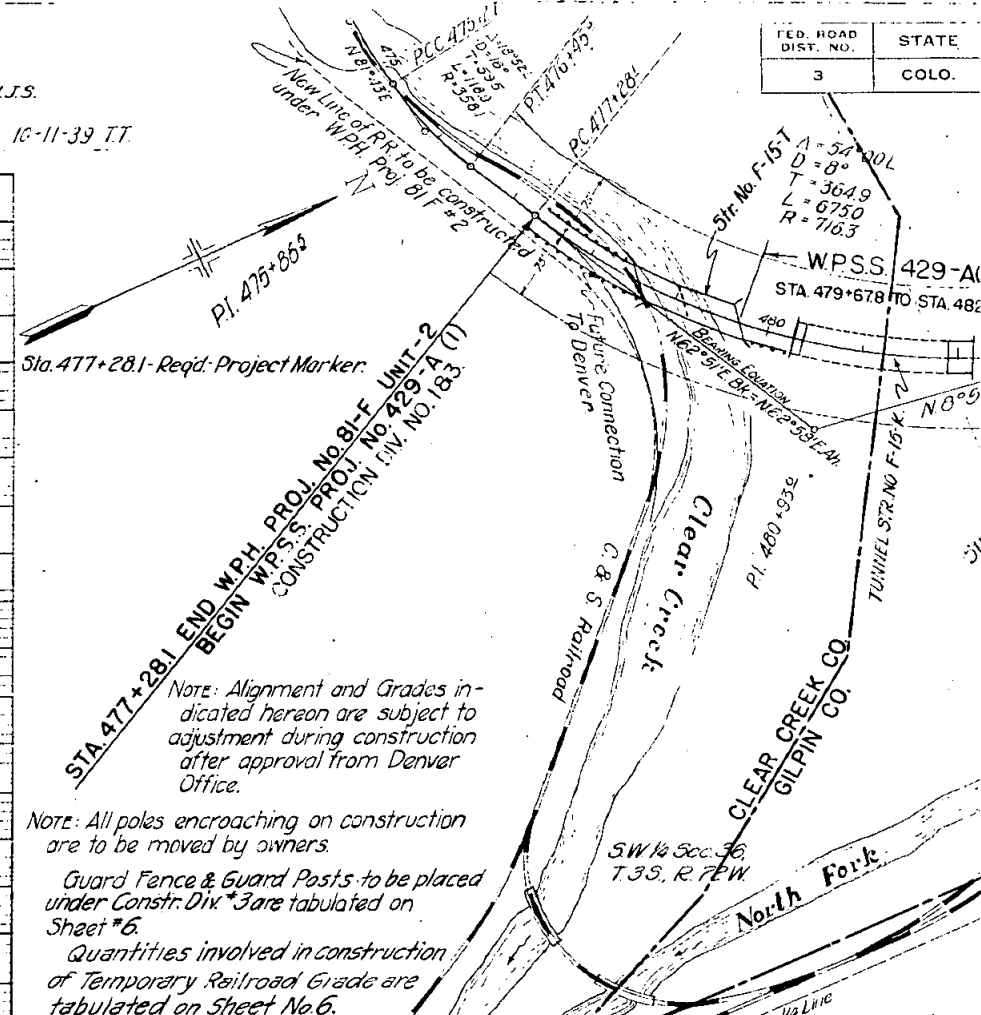
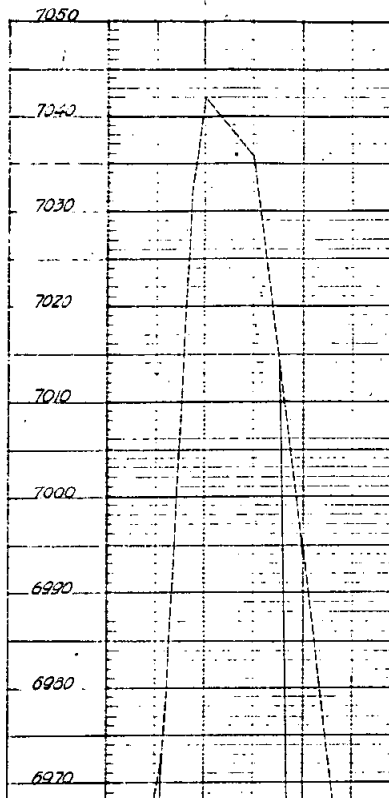
Estimated overhaul involved:

Sta. 479+ - 480+ - 400 Sta. Yds. Overhaul.
Sta. 480+ - 482+ - 450 Sta. Yds. Overhaul.
Sta. 482+ 350 Sta. Yds. Overhaul.

Sta 477+ to 590+ - Req'd 100 cu yds. Boulder Excavation. This excavation will be required at various locations on the Project to be designated by the Engineer during construction. This quantity may be materially increased or decreased during construction to meet actual construction requirements.

Revised: 4-27-38 - H.J.S.
Revised Index: 5-25-38 - H.J.S.
Rev. Abut. No. 1, F-15-U. 4-27-39 - R.A.D.
Rev. W.P.S.S. 429-A(1) C.D. # 3 - 7-25-39 H.J.S.
Rev. W.P.S.S. 429-A(2) - 8-5-39 - H.J.S.
Rev. W.P.S.S. 429-A(1) C.D. # 3 & 429-A(2) 10-11-39 T.T.

STA. 477+28.1 END W.P.H. PROJECT NO. 81-F UNIT NO. 2
BEGIN W.P.S.S. PROJECT NO. 429-A(1)
CONSTRUCTION DIV. NO. 183



Note: Alignment and Grades indicated hereon are subject to adjustment during construction after approval from Denver Office.

Note: All poles encroaching on construction are to be moved by owners.

Guard Fence & Guard Posts to be placed under Constr. Div. #3 are tabulated on Sheet #6.

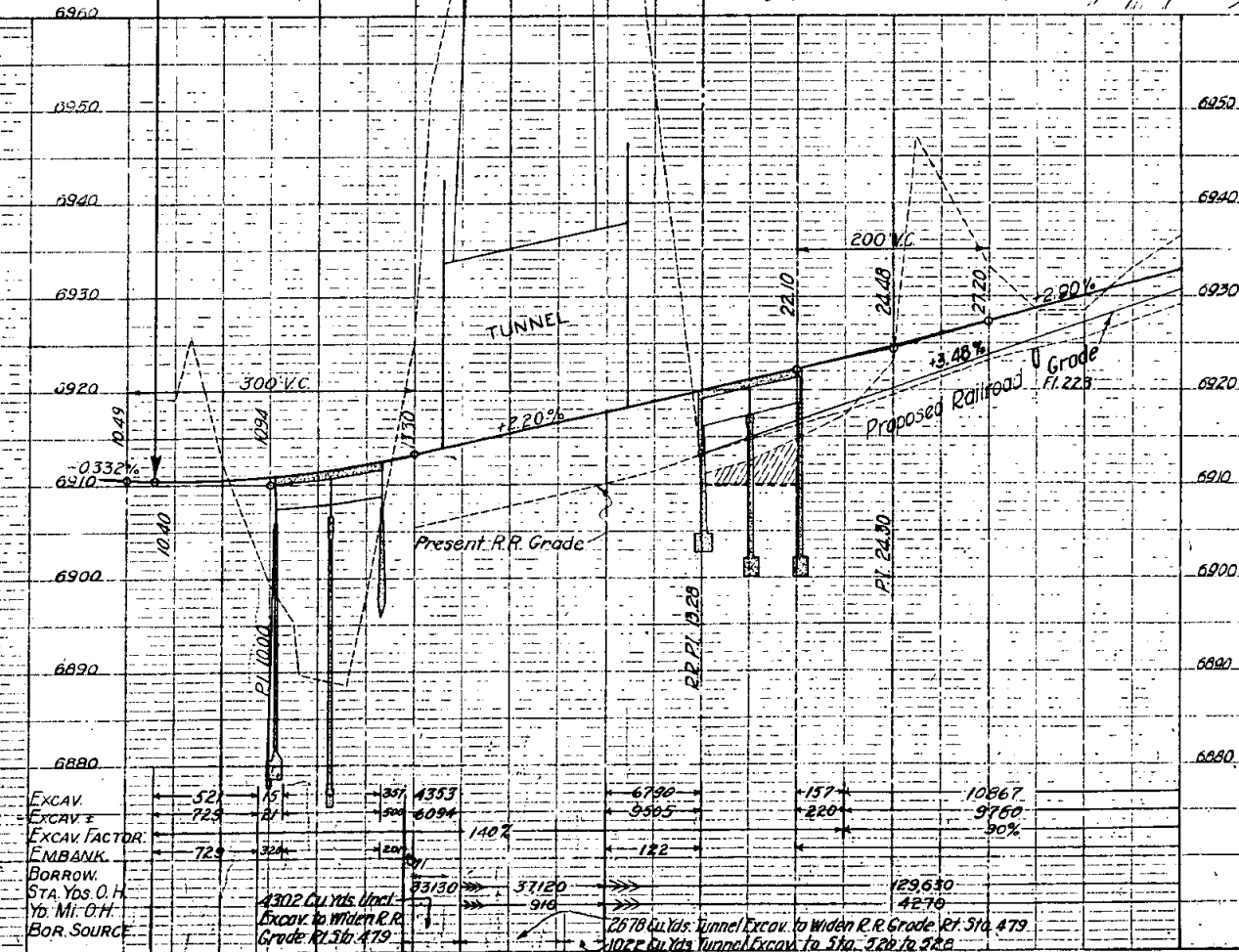
Quantities involved in construction of Temporary Railroad Grade are tabulated on Sheet No. 6.

NOTES ON STRUCTURE NO. F-15-T

PRESENT STRUCTURE	PROPOSED STRUCTURE
Span: Clear Roadway	Position referred to present structure.
Clear Waterway	Span: 2 @ 34'
Type of Superstructure	Clear Roadway
Type of Substructure	Clear Waterway
Requirements as to removal	Type of Superstructure: Conc. & I Beam
STREAM DATA	Type of Substructure: Conc. Abut. & Pier
Drainage Area in Sq. Mi. 290	Detour Structure requirements: None
Velocity during high water	R.R. Siding Forks Creek. Haul to Bridge Site 1/4 Mi.
ELEVATION OF:	Nearby structures on same stream
Maximum high water	Location
Normal Stage	Waterway
Drift	Record during floods

NOTES ON STRUCTURE NO. F-15-U

PRESENT STRUCTURE	PROPOSED STRUCTURE
Span: Clear Roadway	Position referred to present structure.
Clear Waterway	Span: 2 @ 51'-0"
Type of Superstructure	Clear Roadway: 30'-0"
Type of Substructure	Clear Waterway: 646 Sq. Ft.
Requirements as to removal	Type of Superstructure: Conc. & I Beam
STREAM DATA	Type of Substructure: Abut. #1 Cantilever, Pier #2 Conc.
Drainage Area in Sq. Mi. 62	Detour structure requirements: None
Velocity during high water	R.R. Siding Forks Creek. Haul to bridge site 500 ft.
ELEVATION OF:	Nearby structures on same stream
Maximum high water	Location
Normal Stage	Waterway
Drift	Record during floods



Sta. 480+50+ to 482+00+ - Req'd. (Details on Sheet #7)

Excavation from Channel Channel constructing dikes, filling old channel embankments, as directed by

Sta. 478+57 - 479+67.8 - Req'd. Bridge (Details on Sheet #7)

Sta. 482+95 - 484+05 - Req'd. 2' Bridge (Details on Sheet #7)

W.P.S.S. 4

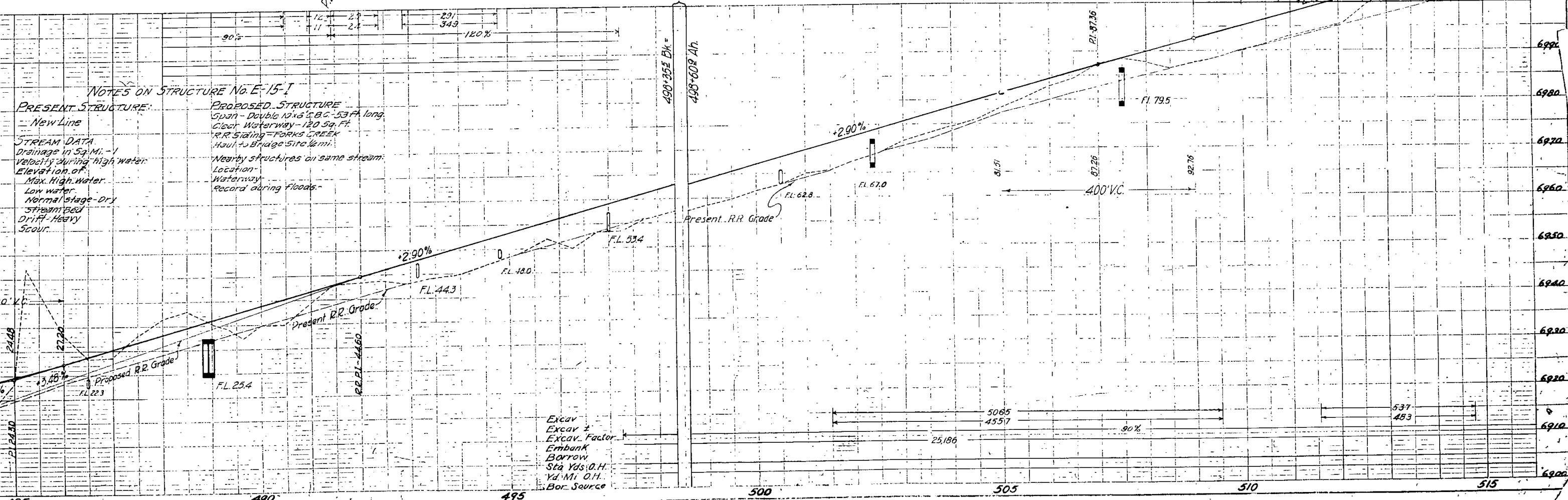
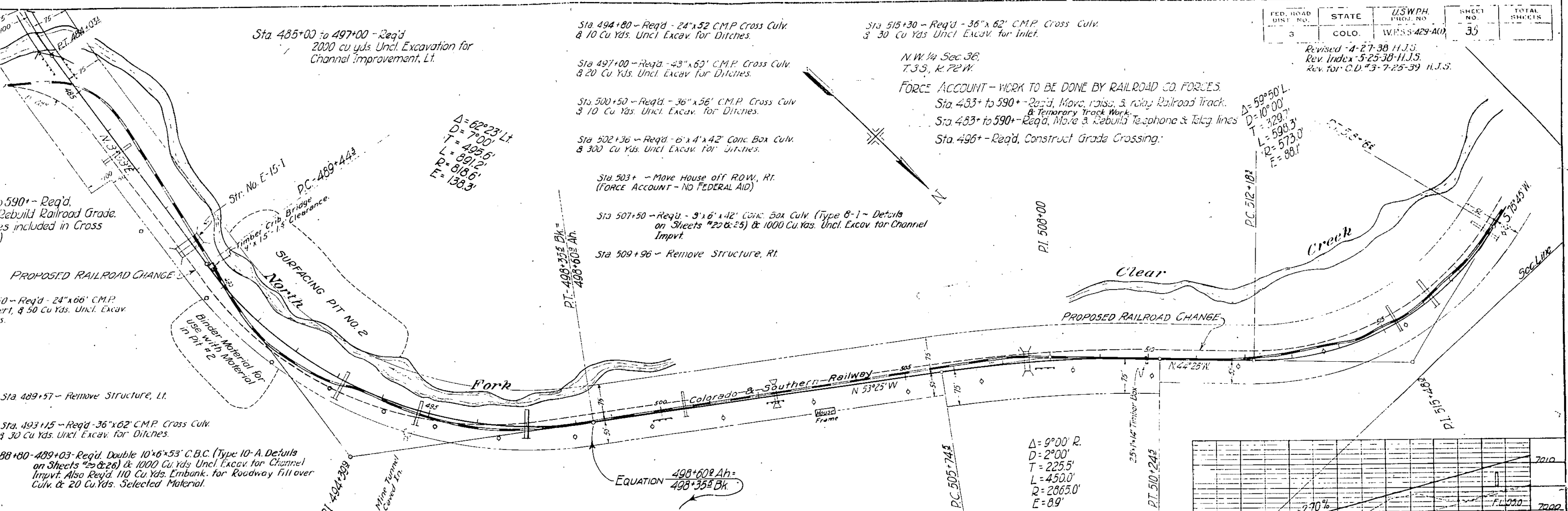
Construction Div. #3 consists of Roadway, Placing Surfacing & Posts on the Project.

Surfacing Plan on Sht. No. 6. Guard Fencing Req'd. on Sht. No. 6. Guard Posts Req'd. on Sht. No. 6.

Sta. 477+28.1 - 815+75 Req'd. Grading Roadway.

EXCAV.	52'	15'	337'	4353'	6790'	157'	10867'
EXCAV. E	725'	21'	1500'	6094'	9905'	220'	9760'
EXCAV. FACTOR	725'	324'	1200'	1402'	122'	*	90%
EMBANK.							
BORROW.							
STA. YDS. O.H.							
YD. MI. O.H.							
BOR. SOURCE							

Revised 4-27-38 H.J.S.
Rev. Index 5-25-38 H.J.S.
Rev. for C.D. #3-7-25-39 H.J.S.



Sta. 485+00 to 497+00 - Req'd
2000 cu yds. Uncl. Excav. for
Channel improvement, Lt.

Sta. 494+80 - Req'd - 24"x52' C.M.P. Cross Culv.
& 10 Cu. Yds. Uncl. Excav. for Ditches.

Sta. 515+30 - Req'd - 36"x62' C.M.P. Cross Culv.
& 30 Cu Yds Uncl. Excav. for Inlet.

Sta. 497+00 - Req'd - 43"x60' C.M.P. Cross Culv.
& 20 Cu. Yds. Uncl. Excav. for Ditches.

N.W. 1/4 Sec. 36,
T.35S., R.72W.

Sta. 500+50 - Req'd - 36"x56' C.M.P. Cross Culv.
& 10 Cu. Yds. Uncl. Excav. for Ditches.

FORCE ACCOUNT - WORK TO BE DONE BY RAILROAD CO. FORCES.

Sta. 483+ to 590+ - Req'd, Move, raise, & relay Railroad Track.

Sta. 483+ to 590+ - Req'd, Move & Rebuild Telephone & Telg. lines

Sta. 496+ - Req'd, Construct Grade Crossing.

Sta. 502+36 - Req'd - 6'x4'x42' Conc. Box Culv.
& 300 Cu Yds. Uncl. Excav. for Ditches.

Sta. 503+ - Move House off ROW, Rt.
(FORCE ACCOUNT - NO FEDERAL AID)

Sta. 507+50 - Req'd - 9'x6'x42' Conc. Box Culv. (Type 8-1 - Details
on Sheets 22 & 25) & 1000 Cu. Yds. Uncl. Excav. for Channel
Impt.

Sta. 509+96 - Remove Structure, Rt.

Sta. 483+ to 590+ - Req'd.
Raise & Rebuild Railroad Grade.
(Quantities included in Cross
Sections.)

Sta. 486+50 - Req'd - 24"x66' C.M.P.
Cross Culvert, & 50 Cu Yds. Uncl. Excav.
for Ditches.

Sta. 489+57 - Remove Structure, Lt.

Sta. 493+15 - Req'd - 36"x62' C.M.P. Cross Culv.
& 30 Cu Yds. Uncl. Excav. for Ditches.

Sta. 488+80 - 489+03 - Req'd, Double 10'x6'x53' C.B.C. (Type 10-A Details
on Sheets 22 & 26) & 1000 Cu. Yds. Uncl. Excav. for Channel
Impt. Also Req'd 110 Cu. Yds. Embank. for Roadway fill over
Culv. & 20 Cu Yds. Selected Material.

$\Delta = 62^{\circ}23' Lt.$
 $D = 7^{\circ}00'$
 $L = 495.6'$
 $R = 89'12"$
 $E = 138.3'$

$\Delta = 59^{\circ}50' L.$
 $D = 10^{\circ}00'$
 $T = 329.7'$
 $L = 598.3'$
 $R = 573.0'$
 $E = 88.1'$

PI. 508+00

PC. 512+18.3

PT. 498+33.5 Bk =
498+60.9 Ah

EQUATION $\frac{498+60.9 Ah =}{498+35.5 Bk}$

$\Delta = 9^{\circ}00' R.$
 $D = 2^{\circ}00'$
 $T = 225.5'$
 $L = 450.0'$
 $R = 2365.0'$
 $E = 8.9'$

EXCAV.
EXCAV. FACTOR
EMBANK.
BORROW
STA Yds. O.H.
Yd. Mi. O.H.
BOR. SOURCE.

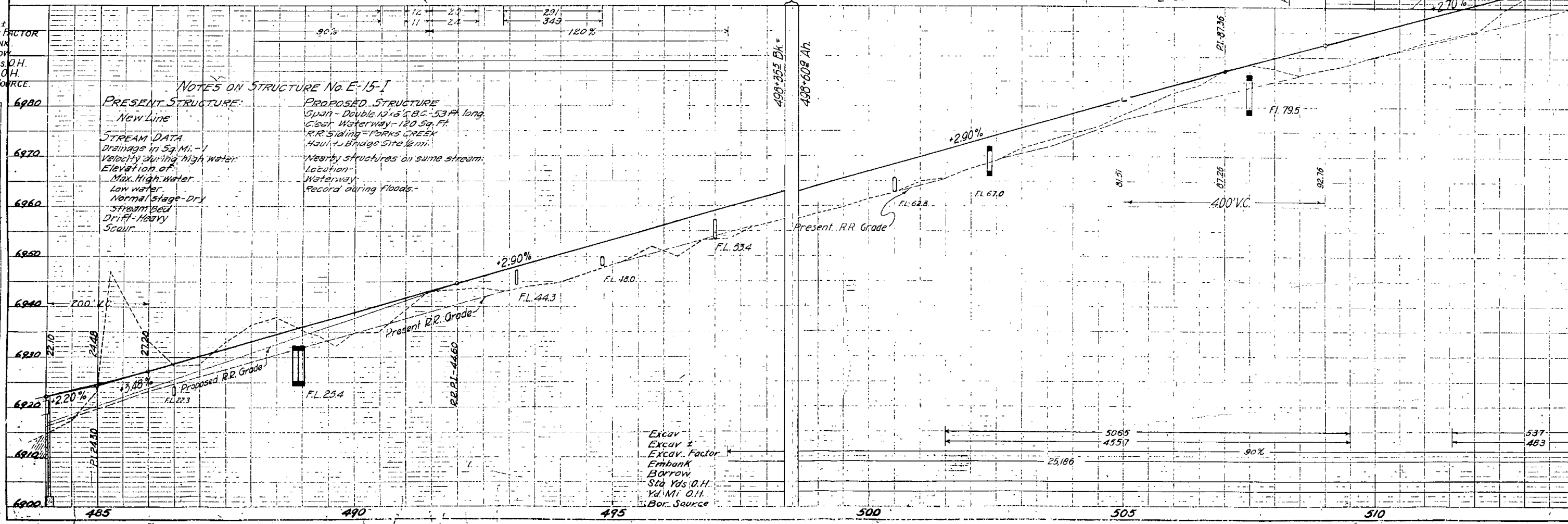
NOTE BOOK
PLOTTER
CROSS-SECTION
B.M. NOTES
STRUCTURE NOTES
NO.

NOTES ON STRUCTURE NO. E-15-1

PRESENT STRUCTURE:
New Line

STREAM DATA:
Drainage in Sq. Mi. - 1
Velocity during high water:
Elevation of:
Max. High water:
Low water:
Normal stage - Dry
Stream bed:
Drift - Heavy
Scour.

PROPOSED STRUCTURE:
Span - Double 10'x6'x53' C.B.C. long
Clear Waterway - 120 Sq. Ft.
R.R. Siding - FORKS CREEK
Haul to Bridge Site 1/2 mi.
Nearby structures on same stream:
Location:
Waterway:
Record during floods.



Req'd - 48'x66' C.M.P. Cross
Cu Yds Uncl. Excav. for Ditches.

N.W. 1/4 Sec. 36,
T.35, R.72W.

Req'd 24'x66' C.M.P. Cross Culvert and
Incl. Excavation for Inlet.

Req'd - 48'x66' C.M.P. Cross Culvert and
Incl. Excav. for Inlet.

N.E. 1/4 Sec. 35,
T.35, R.72W.

Sta. 529+10 - Req'd - 24'x66' C.M.P.
Cross Culvert, 8 100 Cu Yds. Uncl.
Excav. for Ditches.

Force Account - No Federal Aid.
Sta. 532+ - to 533+ - Move 2 Sheas off R.O.W.

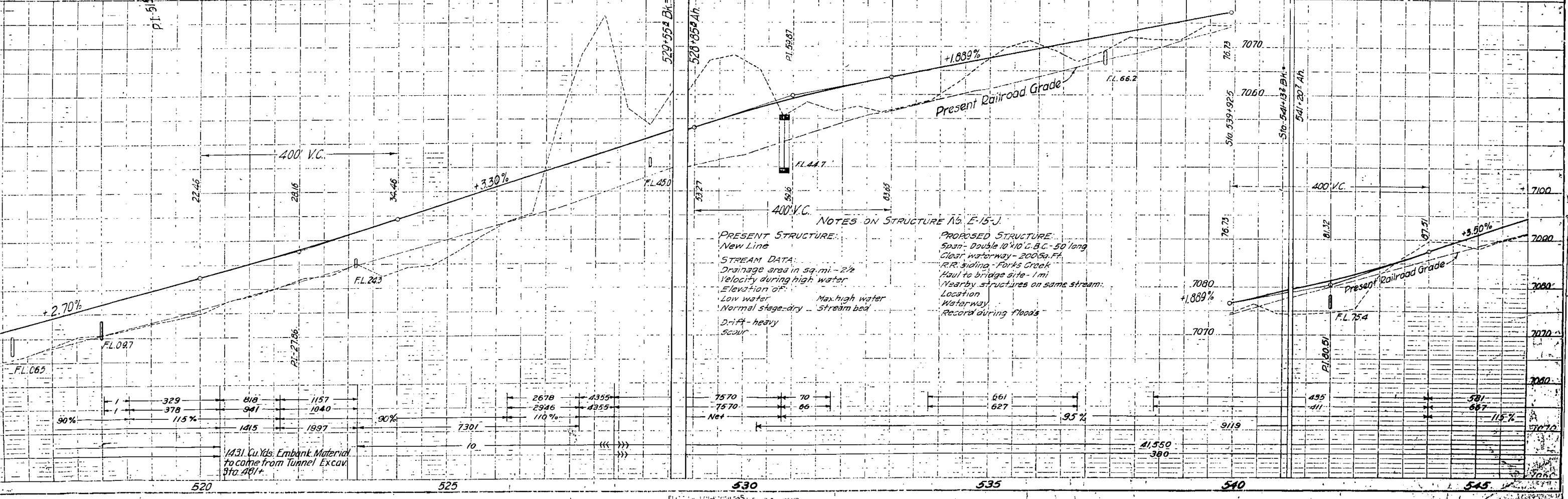
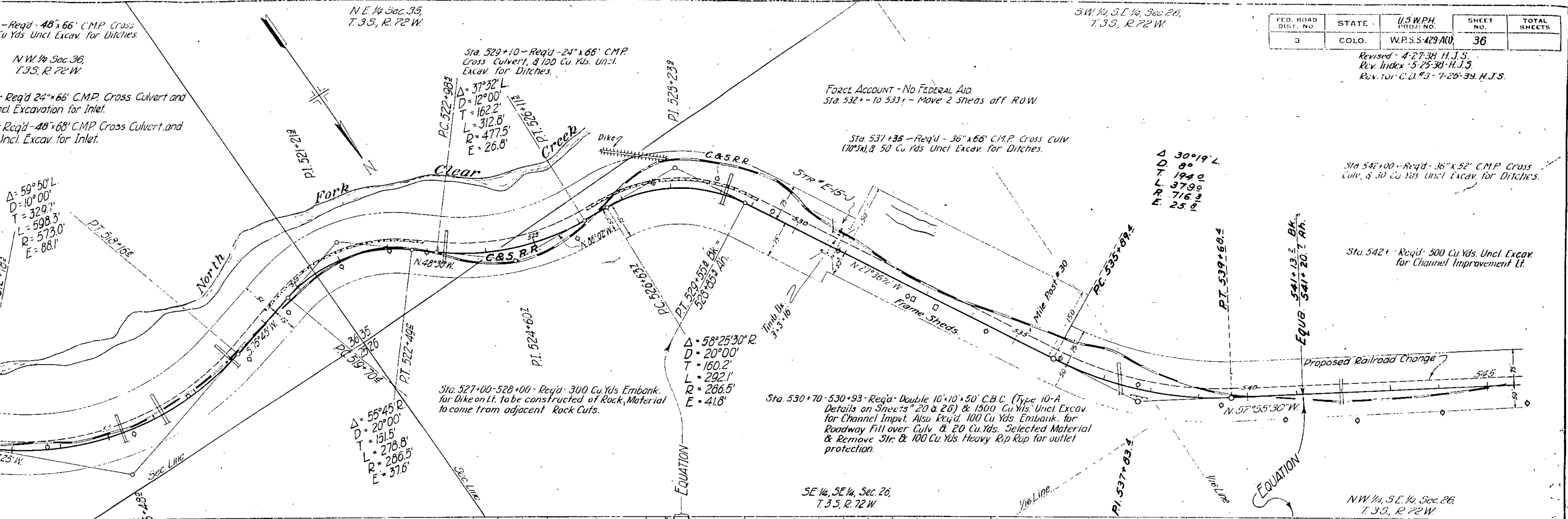
Sta. 531+35 - Req'd - 36'x66' C.M.P. Cross CULV
(70'x11, 8 50 Cu Yds Uncl. Excav. for Ditches.

FED. ROAD DIST. NO.	STATE	U.S.W.P.H. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	W.P.S.S. 429A(1)	36	

Revised - 4-27-38 H.J.S.
Rev. Index - 5-25-38 H.J.S.
Rev. for C.D. 7-25-39 H.J.S.

Sta. 542+00 - Req'd - 36'x52' C.M.P. Cross
Culv. & 30 Cu Yds Uncl. Excav. for Ditches.

Sta. 542+ - Req'd - 500 Cu Yds. Uncl. Excav.
for Channel Improvement Lt.



Sta 518+00 - Req'd - 48'x66' C.M.P. Cross
Culv. & 30 Cu Yds. Uncl. Excav. for Ditches.

N.W. 1/4 Sec. 36,
T.3S, R.72W.

Sta 523+15 - Req'd 24'x66' C.M.P. Cross Culvert and
10 cu yds. Uncl. Excavation for Inlet.

Sta 516+20 - Req'd - 48'x66' C.M.P. Cross Culvert and
500 cu yds. Uncl. Excav. for Inlet.

N.E. 1/4 Sec. 35,
T.3S, R.72W.

Sta 529+10 - Req'd - 24'x66' C.M.P. Cross
Culvert, & 100 Cu Yds. Uncl.
Excav. for Ditches.

$\Delta = 37^{\circ}32' L$
 $D = 12^{\circ}00'$
 $T = 162.2'$
 $L = 312.8'$
 $R = 477.5'$
 $E = 26.8'$

S.W. 1/4, S.E. 1/4, Sec. 26,
T.3S, R.72W.

FED. ROAD DIST. NO.	STATE	U.S.W.P.H. PROJ. NO.
3	COLO.	W.P.S.S. 429A(1)

Revised - 4-27-38 H.J.S.
Rev. Index - 5-25-38 H.J.S.
Rev. for C.D. #3 - 7-25-38

FORCE ACCOUNT - No FEDERAL AID
Sta 532+00 to 533+00 - Move 2 Sheds off ROW.

Sta 531+35 - Req'd - 36'x66' C.M.P. Cross Culv.
(70'x10') & 50 Cu Yds. Uncl. Excav. for Ditches.

$\Delta = 30^{\circ}19' L$
 $D = 8^{\circ}$
 $T = 194.0'$
 $L = 379.0'$
 $R = 716.3'$
 $E = 25.8'$

Sta 542+00 - Req'd - 36'x66' C.M.P. Cross Culv.
& 30 Cu Yds. Uncl. Excav.

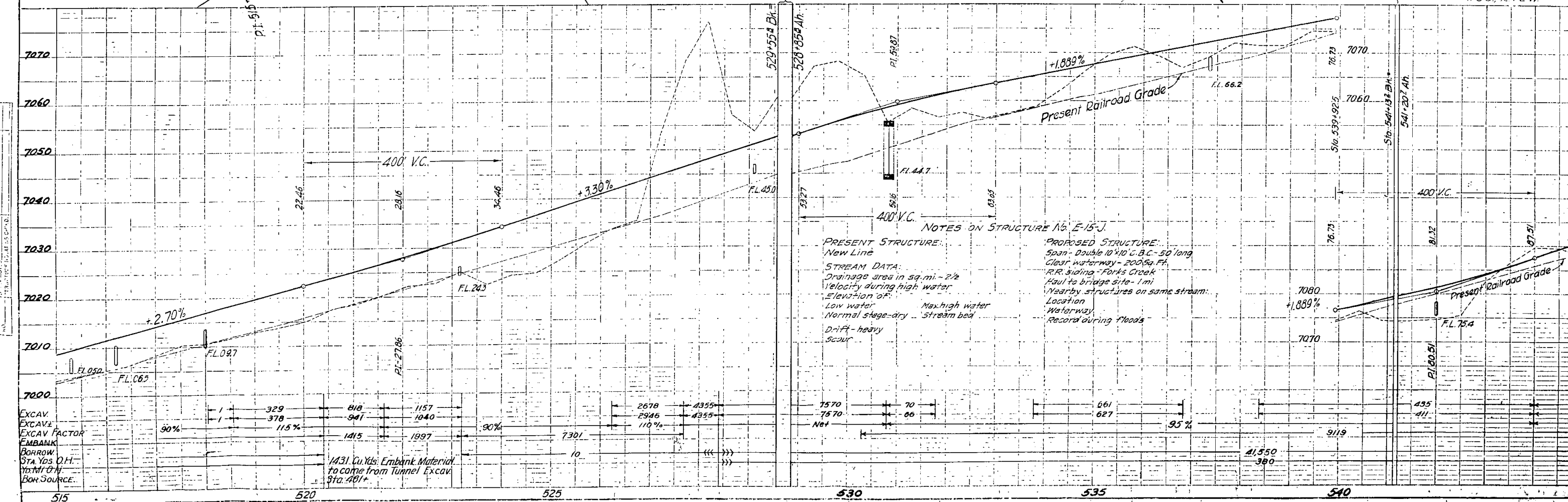
Sta 542+00 - Req'd - 500 Cu Yds.
for Channel Imp.

Sta 527+00-528+00 - Req'd - 300 Cu Yds Embank.
for Dike on Lt. to be constructed of Rock, Material
to come from adjacent Rock Cuts.

Sta 530+70-530+93 - Req'd - Double 10'x10'x50' C.B.C. (Type 10-A
Details on Sheets 20 & 26) & 1500 Cu Yds. Uncl. Excav.
for Channel Impvt. Also Req'd 100 Cu Yds. Embank. for
Roadway Fill over Culv. & 20 Cu Yds. Selected Material
& Remove Str. & 100 Cu Yds. Heavy Rip Rap for outlet
protection.

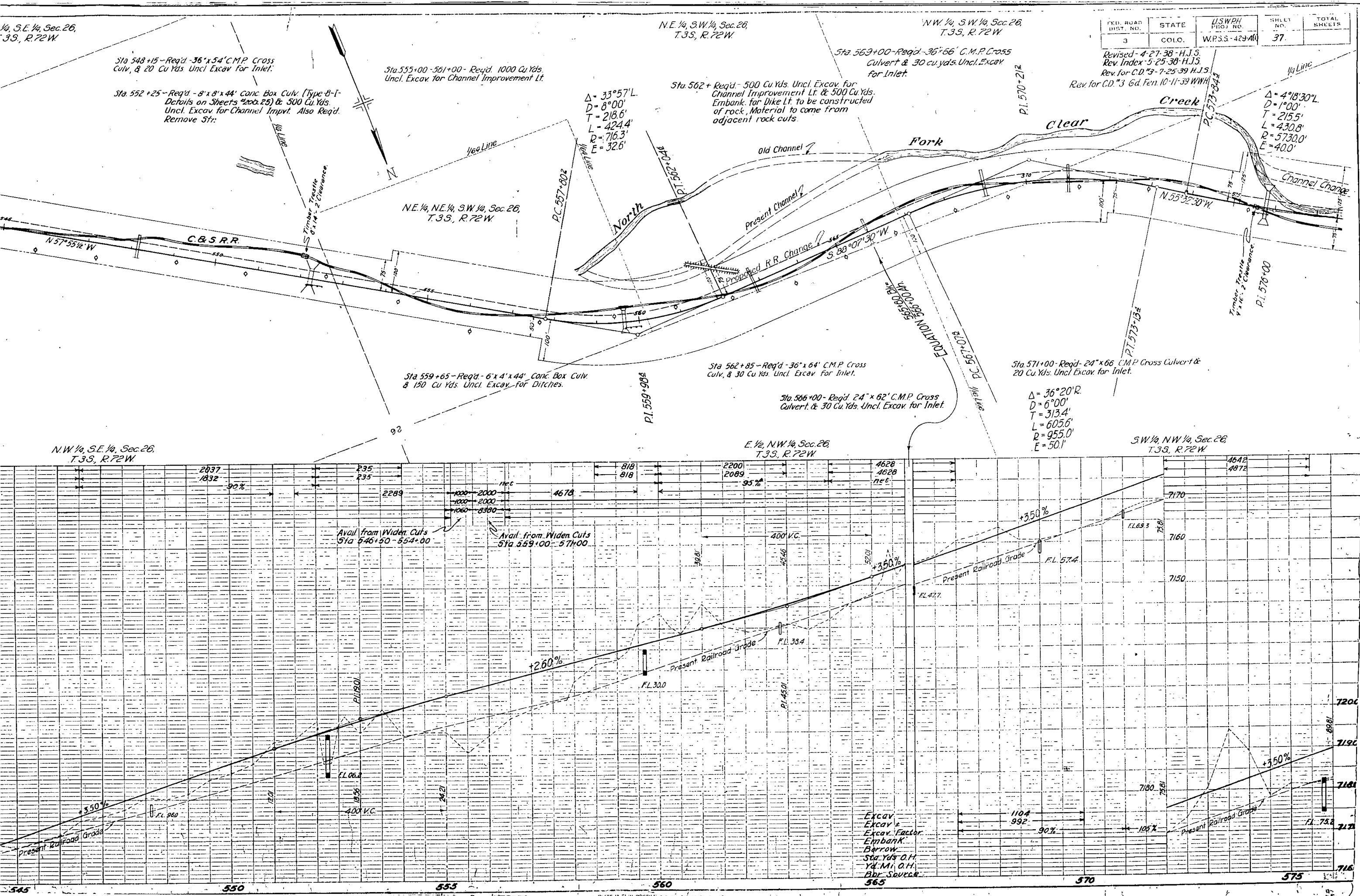
SE 1/4, SE 1/4, Sec. 26,
T.3S, R.72W.

NW 1/4, SE 1/4, Sec. 26,
T.3S, R.72W.



FED. ROAD DIST. NO.	STATE	U.S.W.P.H. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	W.P.S.S.-429-461	37.	

Revised - 4-27-38 - H.J.S.
Rev. Index - 5-25-38 - H.J.S.
Rev. for C.D. #3 - 7-25-39 H.J.S.
Rev. for C.D. #3 Gd. Fen. 10-11-39 WWH



S.W. 1/4, S.E. 1/4, Sec. 26,
T.3S, R.72W

N.E. 1/4, S.W. 1/4, Sec. 26,
T.3S, R.72W

N.W. 1/4, S.W. 1/4, Sec. 26,
T.3S, R.72W

FED. ROAD DIST. NO.	STATE	USWPH PROJ. NO.
3	COLO.	W.P.S.S. - 429-40

Revised - 4-27-38 - H.J.S.
Rev. Index - 5-25-38 - H.J.S.
Rev. for C.D. "3" - 7-25-39 H.J.S.
Rev. for C.D. "3" 6d. Feb. 10-11-39 W.W.H.

Sta 548+15 - Req'd - 36"x54" C.M.P. Cross
Culv. & 20 Cu Yds. Uncl. Excav. for Inlet.

Sta. 555+00 - 561+00 - Req'd. 1000 Cu Yds.
Uncl. Excav. for Channel Improvement Lt.

Sta. 552+25 - Req'd - 8"x8"x44" Conc. Box Culv. (Type 8-1)
Details on Sheets 200.25 & 500 Cu Yds.
Uncl. Excav. for Channel Impvt. Also Req'd.
Remove 5fr.

Sta. 562+ - Req'd - 500 Cu Yds. Uncl. Excav. for
Channel Improvement Lt. & 500 Cu Yds.
Embank. for Dike Lt. to be constructed
of rock. Material to come from
adjacent rock cuts.

Sta. 569+00 - Req'd - 36"x66" C.M.P. Cross
Culvert & 30 cu. yds. Uncl. Excav.
for Inlet.

P.I. 570+212

Creek

Clear

Fork

old Channel

Present Channel

Proposed R.R. Change

N.E. 1/4, N.E. 1/4, S.W. 1/4, Sec. 26,
T.3S, R.72W

Sta. 559+65 - Req'd - 6"x4"x44" Conc. Box Culv.
& 150 Cu Yds. Uncl. Excav. for Ditches.

Sta. 562+85 - Req'd - 36"x64" C.M.P. Cross
Culv. & 30 Cu Yds. Uncl. Excav. for Inlet.

Sta. 566+00 - Req'd - 24"x62" C.M.P. Cross
Culvert & 30 Cu Yds. Uncl. Excav. for Inlet.

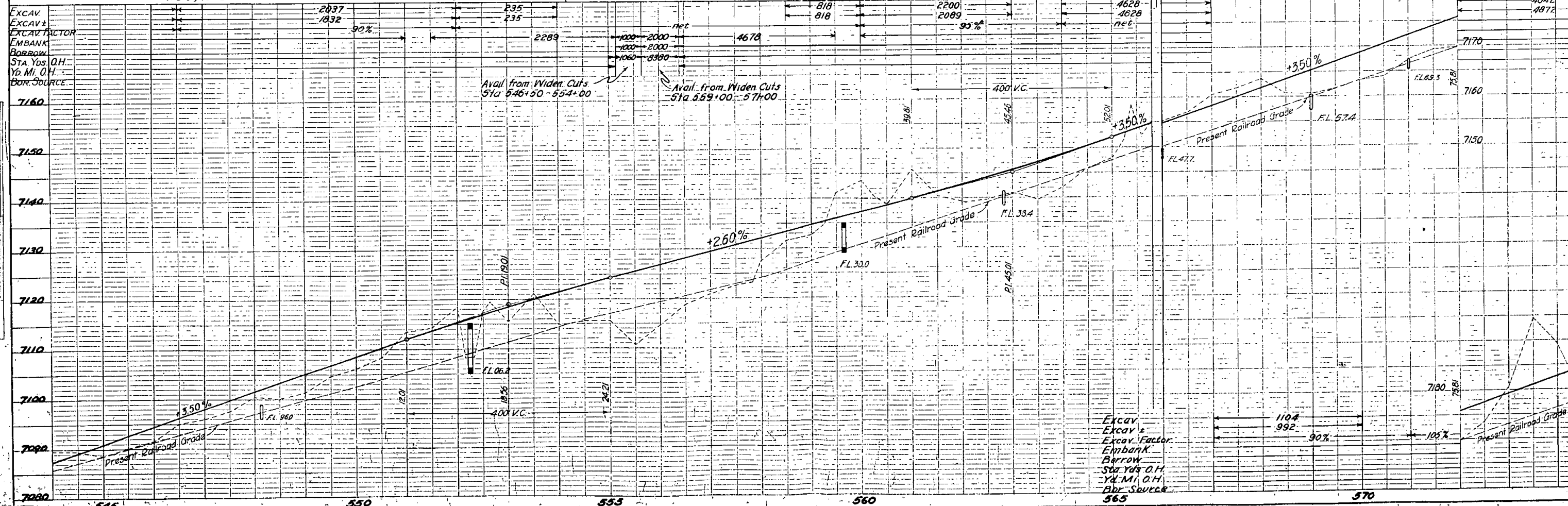
Sta. 571+00 - Req'd - 24"x66" C.M.P. Cross Culvert &
20 Cu Yds. Uncl. Excav. for Inlet.

$\Delta = 36^{\circ}20'R$
 $D = 6^{\circ}00'$
 $T = 313.4'$
 $L = 605.6'$
 $R = 955.0'$
 $E = 50.1'$

S.W. 1/4, N.W. 1/4, Sec. 26,
T.3S, R.72W

N.W. 1/4, S.E. 1/4, Sec. 26,
T.3S, R.72W

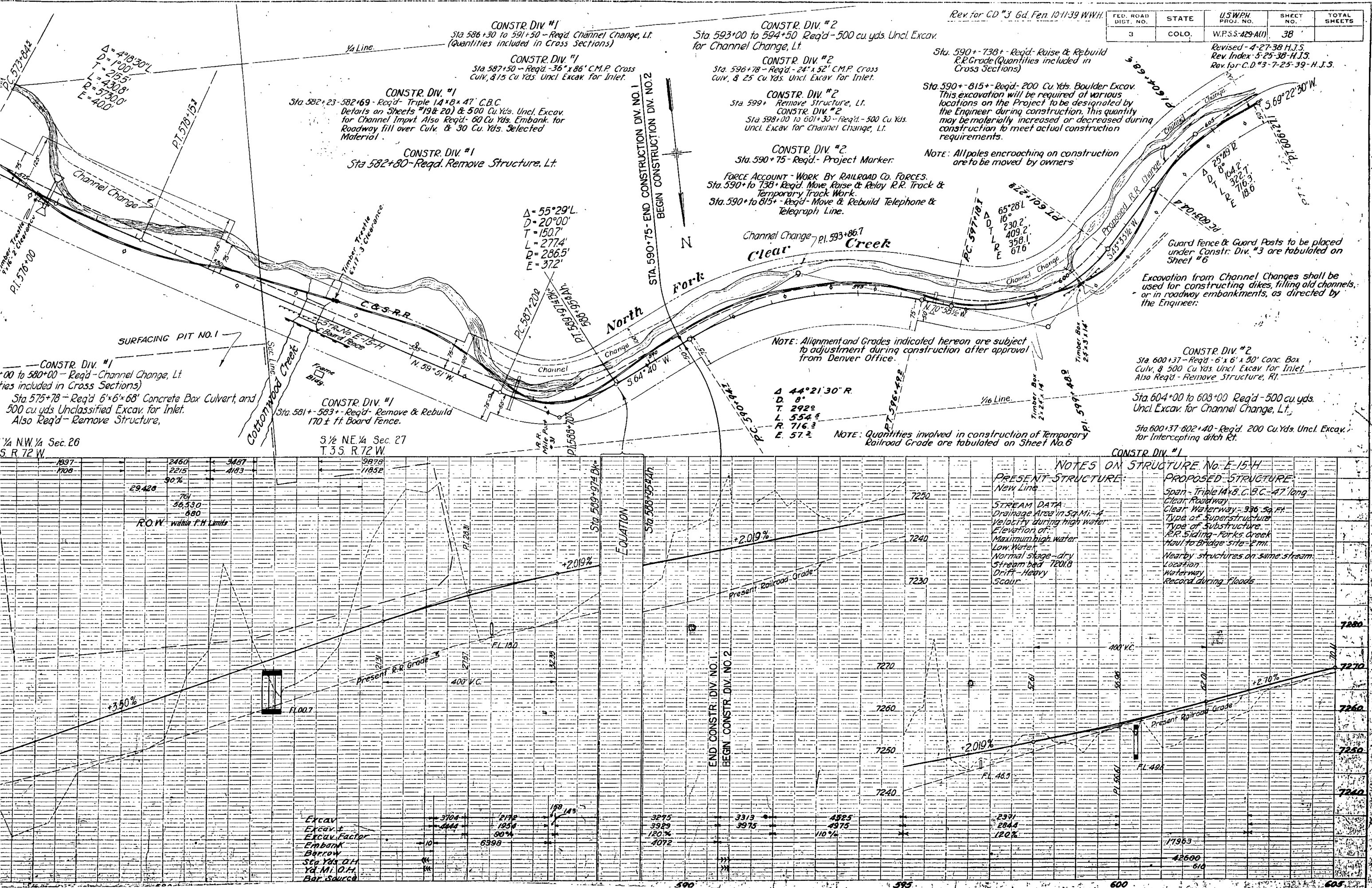
E. 1/2, N.W. 1/4, Sec. 26,
T.3S, R.72W

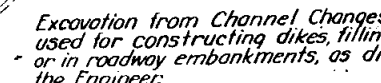


FED. ROAD DIST. NO.	STATE	U.S.W.P.H. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	W.P.S.S.-429-A(1)	38	

Rev. for C.D. #3 Gd. Fen. 10-11-39 W.W.H.

Revised - 4-27-38 H.J.S.
Rev. Index - 5-25-38 - H.J.S.
Rev. for C.D. #3 - 7-25-39 - H.J.S.



[illegible]

Sta 608+10 - Req'd - 36"x54" C.M.P. Cross
Culv. & 35 Cu Yds. Uncl. Excav. for Inlet.

Sta 612+00 to 619+00 - Req'd - 2000 Cu Yds.
Uncl. Excav. for Channel Change, Lt.

NE 1/4 SW 1/4 Sec 27
T.35. R.72W.

NW 1/4 SW 1/4 Sec. 27
T.35. R.72W.

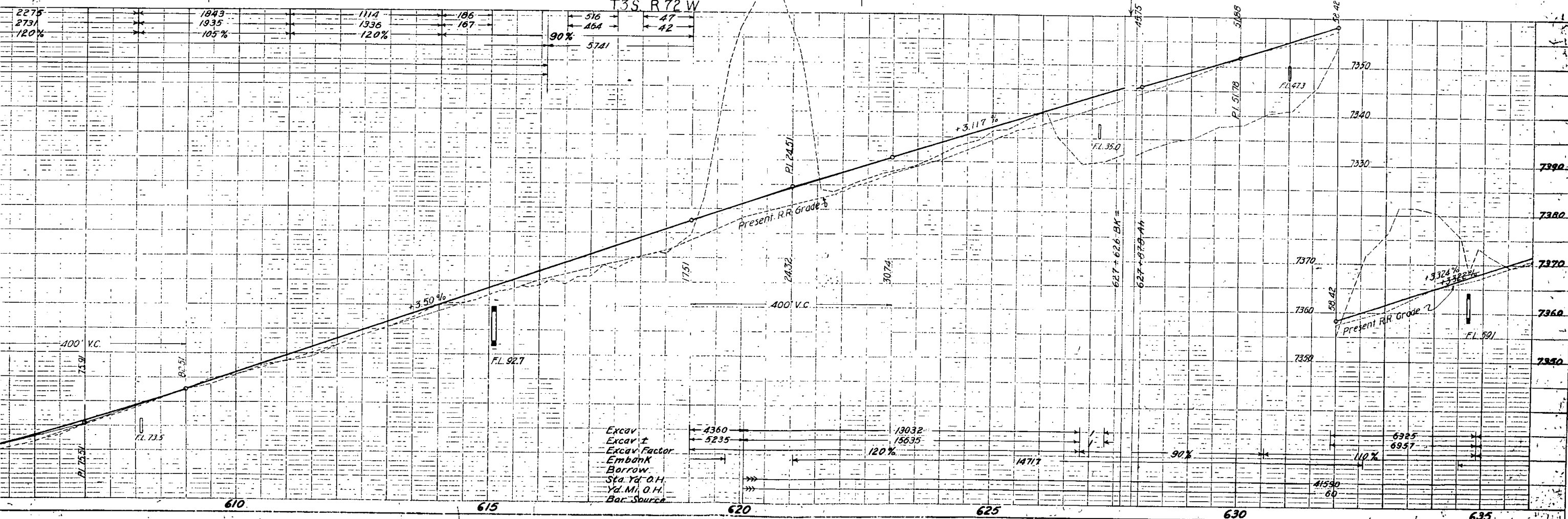
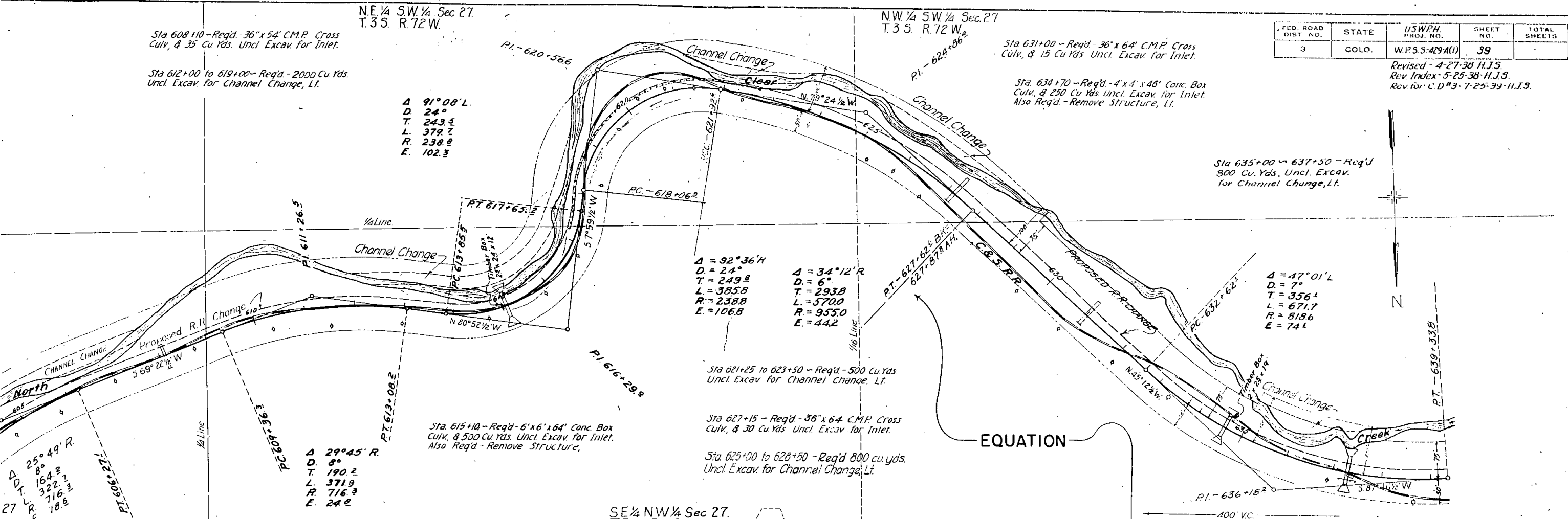
Sta 631+00 - Req'd - 36"x64" C.M.P. Cross
Culv. & 15 Cu Yds. Uncl. Excav. for Inlet.

Sta 634+70 - Req'd - 4'x4'x46' Conc. Box
Culv. & 250 Cu Yds. Uncl. Excav. for Inlet.
Also Req'd - Remove Structure, Lt.

Sta 635+00 to 637+50 - Req'd
800 Cu. Yds. Uncl. Excav.
for Channel Change, Lt.

FED. ROAD DIST. NO.	STATE	USWPH. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	W.P.S.S.-429A(1)	39	

Revised - 4-27-38 H.J.S.
Rev. Index - 5-25-38 H.J.S.
Rev. for C.D.#3 - 7-25-39 H.J.S.



Sta 608+10 - Req'd - 36" x 54" C.M.P. Cross
Culv. & 35 Cu Yds. Uncl. Excav. for Inlet.

Sta 612+00 to 619+00 - Req'd - 2000 Cu Yds.
Uncl. Excav. for Channel Change, Lt.

NE 1/4 SW 1/4 Sec 27
T.3S. R.72W.

NW 1/4 SW 1/4 Sec. 27
T.3S. R.72W.

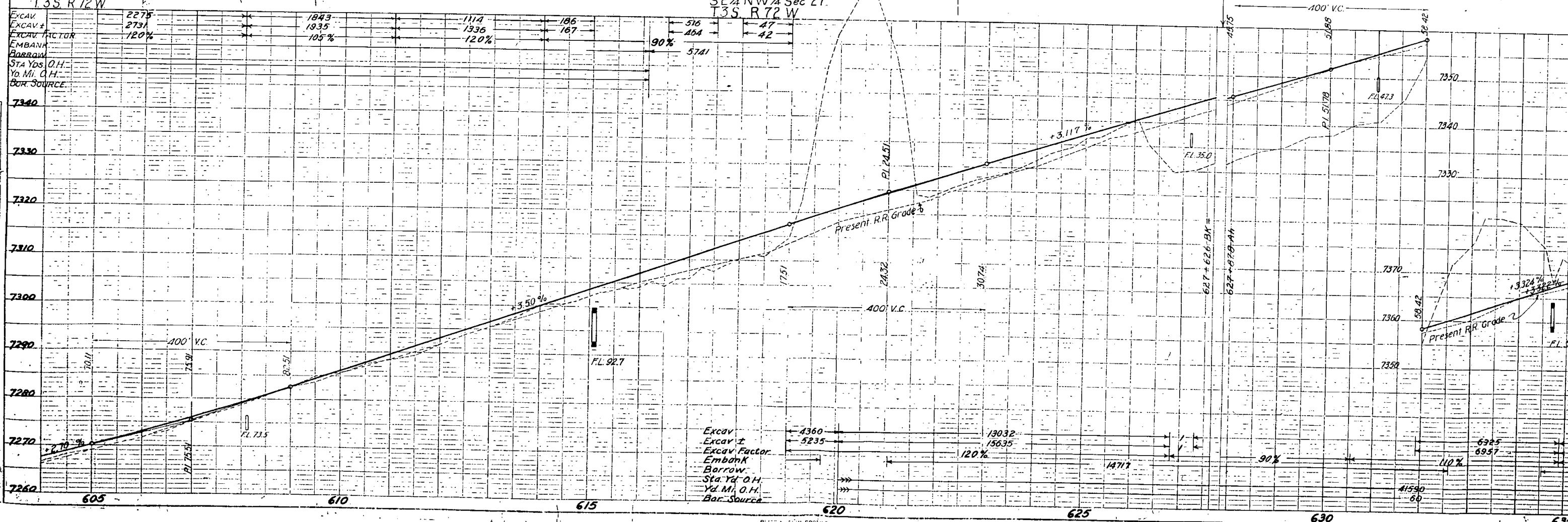
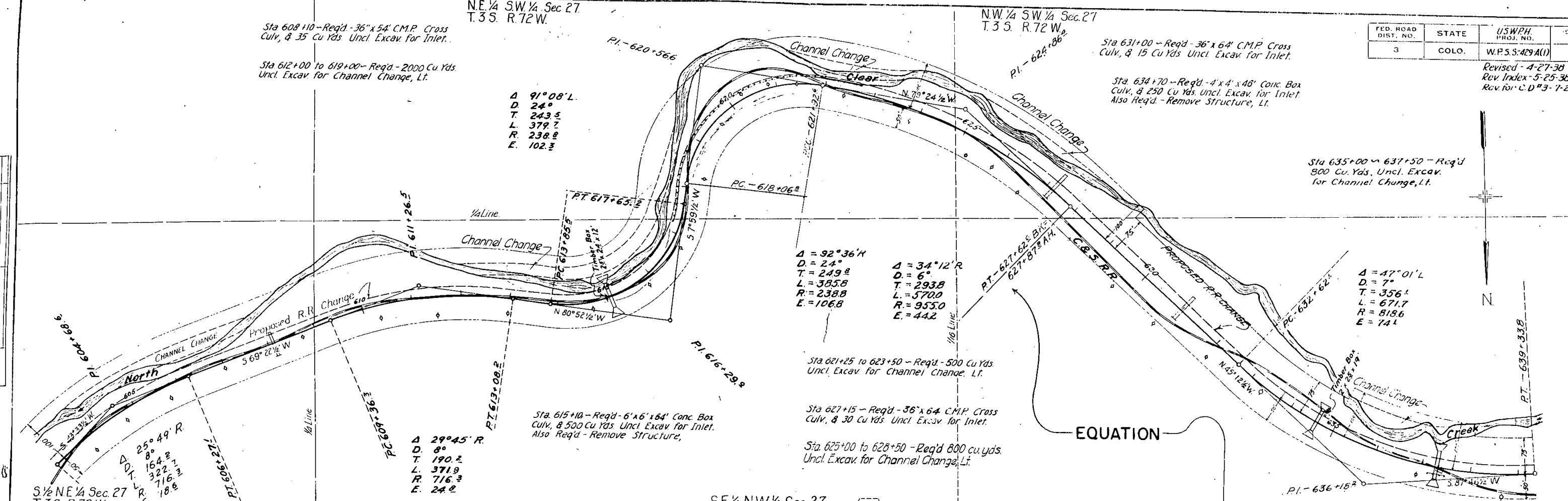
Sta 631+00 - Req'd - 36" x 64" C.M.P. Cross
Culv. & 15 Cu Yds. Uncl. Excav. for Inlet.

Sta. 634+70 - Req'd - 4' x 4' x 46" Conc. Box
Culv. & 250 Cu Yds. Uncl. Excav. for Inlet.
Also Req'd - Remove Structure, Lt.

FED. ROAD DIST. NO.	STATE	U.S.W.P.H. PROJ. NO.	REV.
3	COLO.	W.P.S.S. 429 A(1)	3

Revised - 4-27-38 H.
Rev. Index - 5-25-38
Rev. for C.D. #3 - 7-21

Sta 635+00 to 637+50 - Req'd
800 Cu. Yds. Uncl. Excav.
for Channel Change, Lt.



SE 1/4 NW 1/4 Sec 27
T.3S. R.72W.

Excav.
Excav. Factor
Embank.
Borrow
Sta. Yd. O.H.
Yd. M. O.H.
Bar. Source

EQUATION

SE 1/4 NE 1/4 SEC. 28.
T.35-R.72 W.

Sta 637+30 - Reg'd. 4'x4'x60' Cork Box
Culv. & 200 Cu Yds. Uncl. Excav. for Inlet.
Also Reg'd. - Remove Structure.

Sta 641+35 - Reg'd. 36"x76" C.M.P. Cross Culv. and
10 cu yds. Uncl. Excav. for Inlet Ditch.

$\Delta = 20^\circ 32' L$
 $D = 10^\circ 00'$
 $T = 103.8'$
 $L = 205.3'$
 $R = 5730'$
 $E = 9.3'$

PC 649+87.4
PT 651+72.2 Bk =
651+68.3 Ah.

R.P.I. 653+73.7
P.T. 655+86.2

FED. ROAD DIST. NO.	STATE	USW.P.H. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	W.P.S. 5-423-A(1)	40	

Revised - 4-27-38 H.J.S.
Rev. Index - 5-25-38 H.J.S.
Rev. for C.D. #3 - 7-25-39 H.J.S.

NW 1/4 NE 1/4 SEC. 28.
T.35-R.72 W.

$\Delta = 47^\circ 01' L$
 $D = 7^\circ 00'$
 $T = 356.1'$
 $L = 671.7'$
 $R = 818.6'$
 $E = 74.1'$

$\Delta = 49^\circ 44' R$
 $D = 16^\circ 00'$
 $T = 166.0'$
 $L = 310.8'$
 $R = 358.1'$
 $E = 36.6'$

Projected Line
Curve Data
 $\Delta = 52^\circ 30' R$
 $D = 14^\circ$
 $T = 201.8'$
 $L = 375.0'$
 $R = 409.3'$

Original Curve
Data
 $\Delta = 55^\circ 16' R$
 $D = 14^\circ 00'$
 $T = 244.8'$
 $L = 409.3'$
 $R = 52.2'$

Projected Line
Curve Data
 $\Delta = 64^\circ 0' R$
 $D = 20^\circ$
 $T = 179.0'$
 $L = 320.0'$
 $R = 286.5'$

Original Curve
Data
 $\Delta = 65^\circ 36' R$
 $D = 20^\circ 00'$
 $T = 180.0'$
 $L = 320.0'$
 $R = 286.5'$

Sta 649+ - 651+ - Reg'd. - 500 Cu Yds. for
Channel Improvement & 1000 Cu Yds.
Embank. for Berm on Lt. to be constructed
of rock. Material to come adjacent rock
cuts.

Sta 651+25 - Reg'd. - 36"x54" C.M.P. Cross
Culvert, & 40 Cu Yds. Uncl. Excav. for Inlet.

Sta 657+00 to 659+00 - Reg'd. - Chan. Change, Lt.
(Quantities included in Cross Sections)

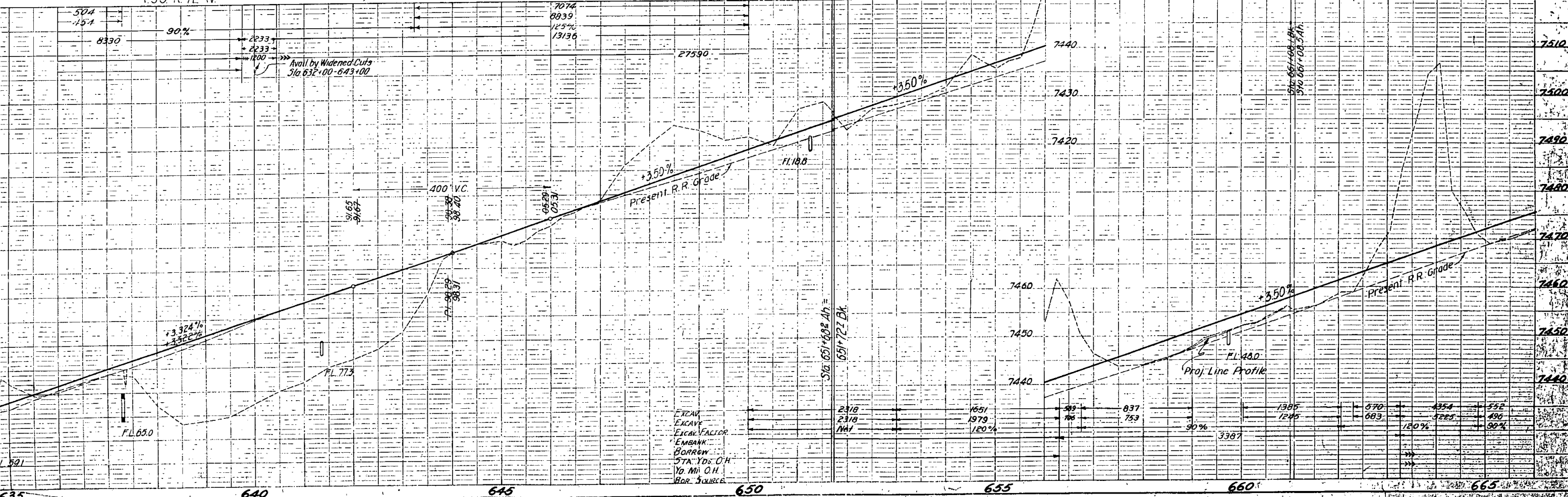
Sta. 659+75 - Reg'd. 36"x56" C.M.P. Cross Culv.
and 20 cu yds. Uncl. Excav. for Ditches.

Sta. 660+50 to 662+00 - Reg'd. Channel Change, Lt.
(Quantities included in Cross Sections.)

SW 1/4 NW 1/4 SEC. 27
T.35-R.72 W.

NE 1/4, NE 1/4, SEC. 28,
Twp. 3 S., R. 72 W.

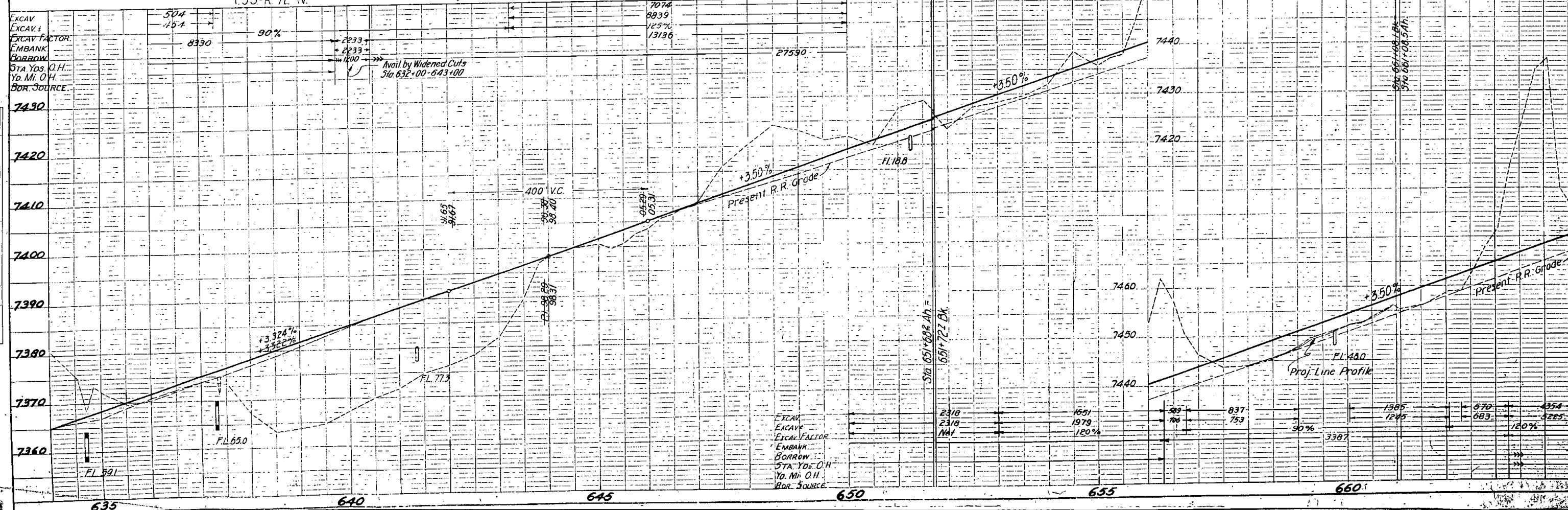
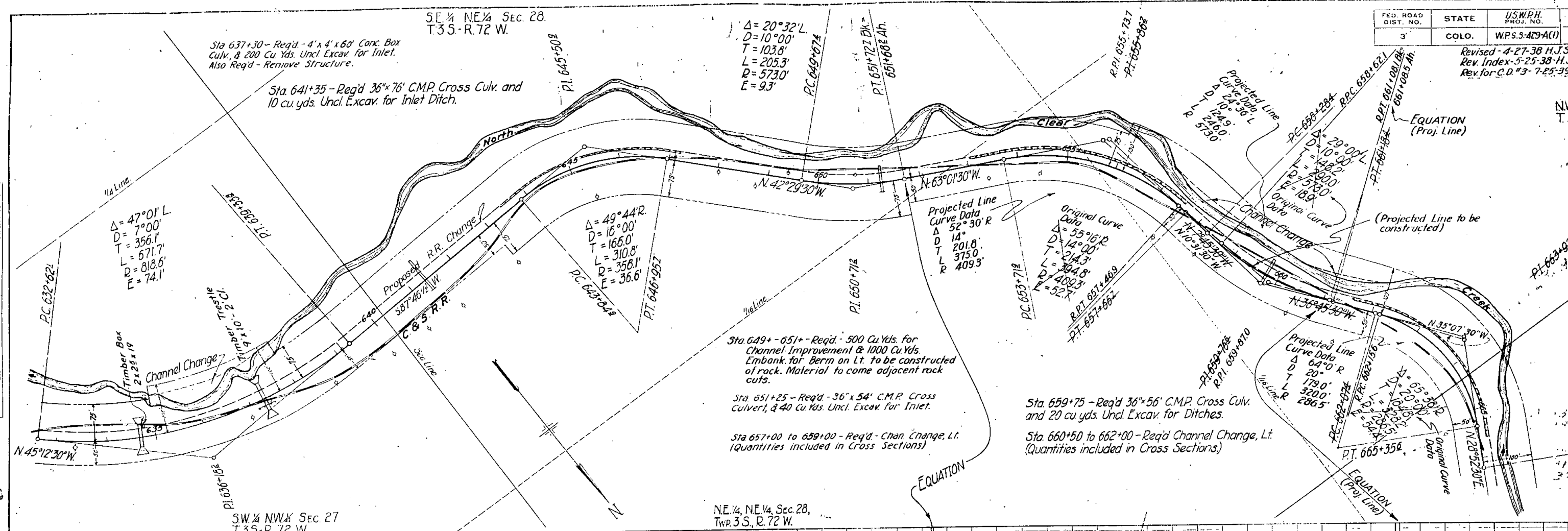
SW 1/4 SE 1/4 SEC. 21
T.35-R.72 W.



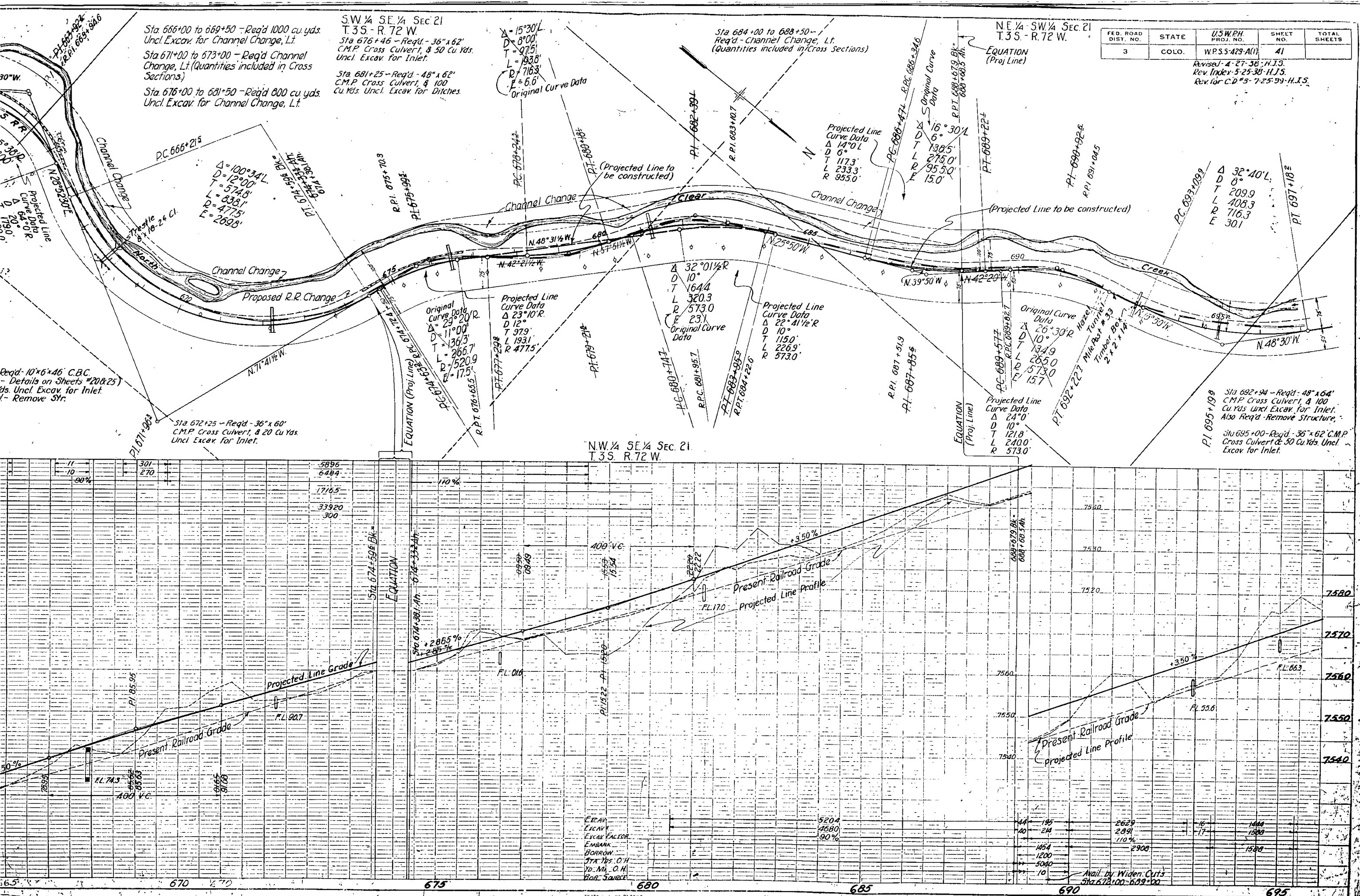
NOTE: BOOK 1, CHANDLER & CO. ENGINEERS, S.D. 1912, P. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

FED. ROAD DIST. NO.	STATE	USWPH PROJ. NO.
3	COLO.	W.P.S. 3-429-A(1)

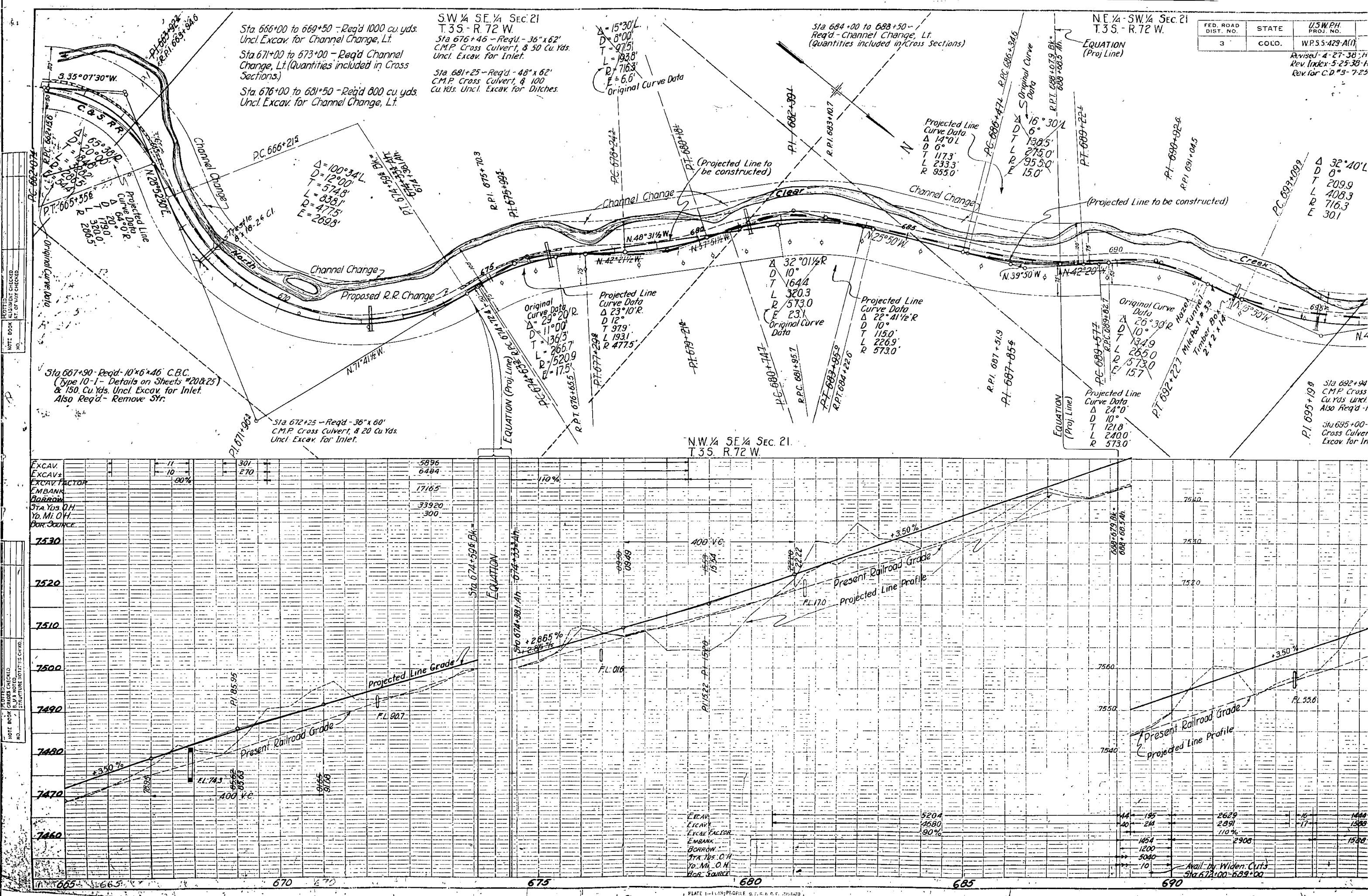
Revised 4-27-38 H.J.S.
Rev. Index-5-25-38 H.J.S.
Rev. for C.D. 7-25-39



Revised-4-27-38-H.J.S.
Rev. Index-5-25-38-H.J.S.
Rev. for C.D.#5-7-25-39-H.J.S.



Revised-4-27-38;
Rev. Index-5-25-38-
Rev. for C.D.#3-7-25



1/4 Sec. 21
2 W.

Sta. 698+30 - Req'd - 36" x 62" C.M.P. Cross Culv.
& 30 Cu. Yds. Uncl. Excav. for Inlet.

Sta. 705+00-706+50 - Req'd - Channel Change Lt.
(Quantities included in Cross Sections)

Sta. 706+75 - Req'd - 24" x 72" C.M.P. Cross
Culv. & 30 Cu. Yds. Uncl. Excav.
for Inlet.

Sta. 708+50-713+20 - Req'd - Channel Change Lt.
(Quantities included in Cross Sections)

Sta. 710+90 - Req'd - 36" x 66" C.M.P. Cross
Culv. & 30 Cu. Yds. Uncl.
Excav. for Inlet.

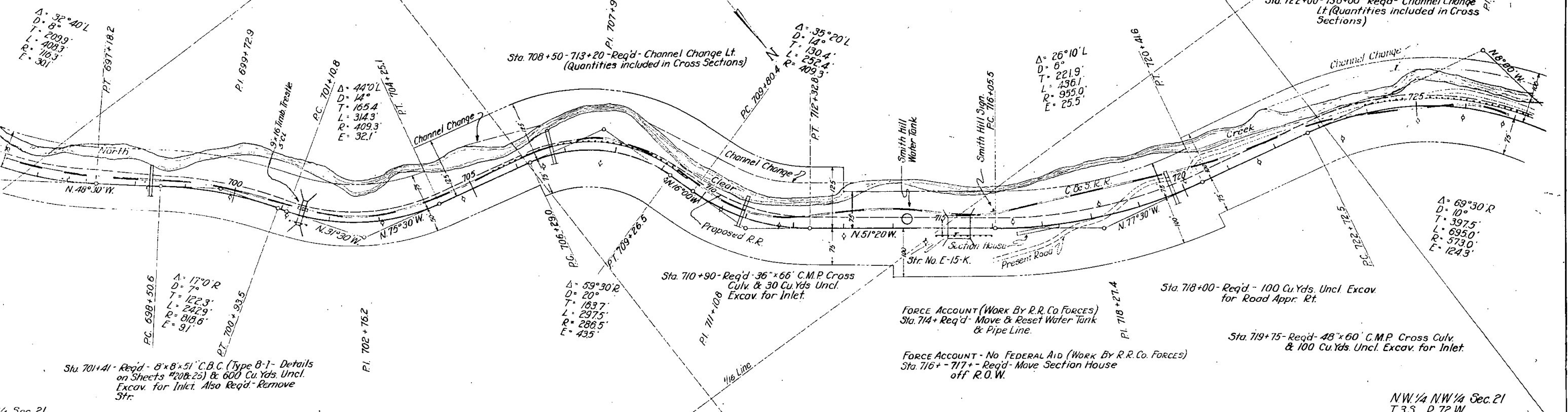
Sta. 715+12-715+58 - Req'd - Triple 14" x 8" x 47" C.B.C.
Details on Sheets #19 & 20 & 1500 Cu. Yds. Uncl.
Excav. for Channel Impvt. Also Req'd - 60 Cu. Yds.
Embank. for Roadway fill over Culv. & 30 Cu. Yds. Selected
Material & Remove Str.

Revised - 4-27-38 H.J.S.
Rev. Index - 5-25-38 H.J.S.
Rev. for C.O.'s 7-25-39 H.J.S.

FED. ROAD DIST. NO.	STATE	USWPH. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	WP55-429-A(1)	42	

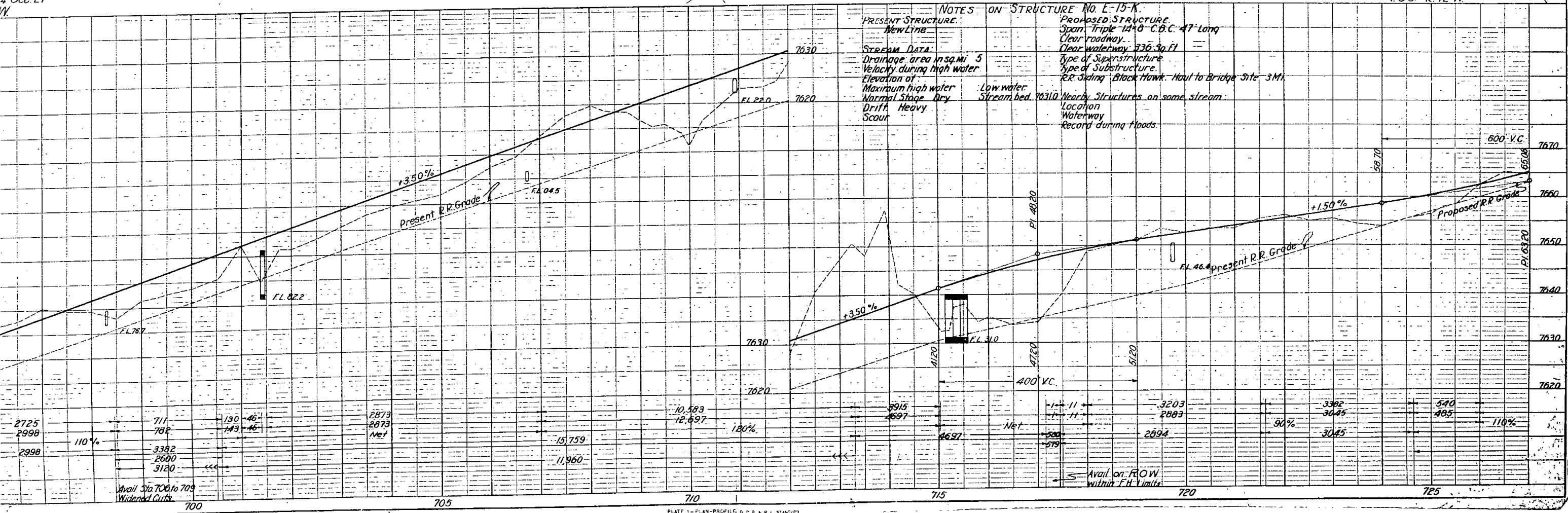
NE 1/4 NE 1/4 Sec. 20
T.3S. R.72W.

Sta. 722+00-730+00 - Req'd - Channel Change
Lt. (Quantities included in Cross
Sections)



1/4 Sec. 21
2 W.

NW 1/4 NW 1/4 Sec. 21
T.3S. R.72W.



NE 1/4 SW 1/4 Sec. 21
T.35. R.72 W.

Sta 698+30 - Req'd - 36"x62" C.M.P. Cross Culv.
& 30 Cu.Yds. Uncl. Excav. for Inlet.

Sta 705+00 - 706+50 - Req'd - Channel Change Lt.
(Quantities included in Cross Sections)

Sta 706+75 - Req'd - 24"x72" C.M.P. Cross
Culv. & 30 Cu.Yds. Uncl. Excav.
for Inlet.

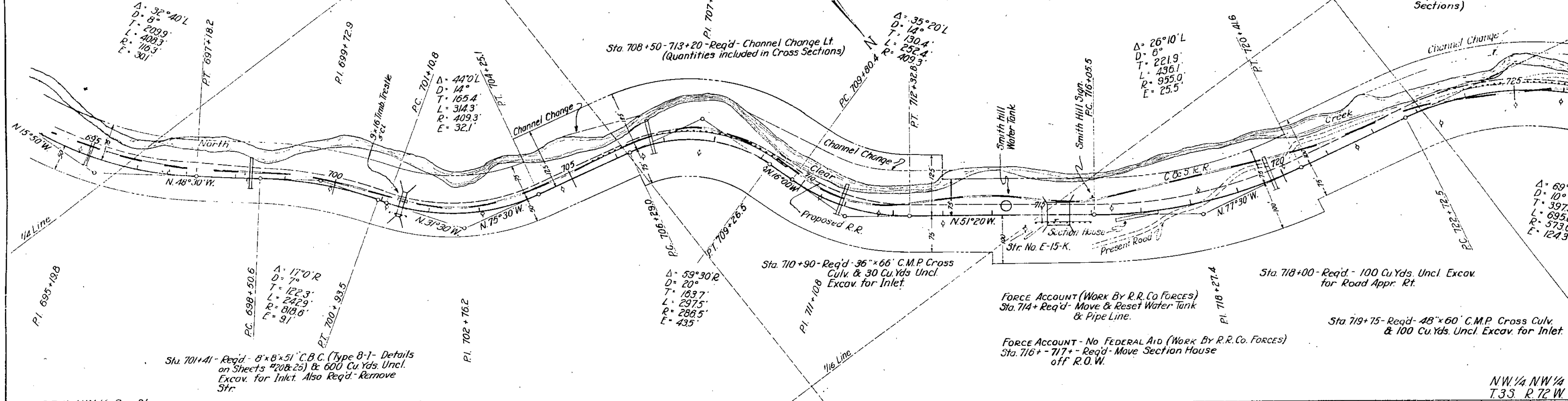
SW 1/4 NW 1/4 Sec. 21
T.35. R.72 W.

Revised - 4-27-38 H.J.S.
Rev. Index - 5-25-38 H.J.S.
Rev. for C.O.'s 7-25-39 - H.J.S.

FED. ROAD DIST. NO.	STATE	USWPH PROJ. NO.	SH N
3	COLO.	WP55-429-A(1)	4

NE 1/4 NE 1/4 Sec. 20
T.35. R.72 W.

Sta 722+00 - 730+00 - Req'd - Channel Change
Lt (Quantities included in Cross
Sections)



SE 1/4 NW 1/4 Sec. 21
T.35. R.72 W.

Sta 701+41 - Req'd - 8"x8"x51" C.B.C. (Type 8-1 - Details
on Sheets #208 & 251) & 600 Cu.Yds. Uncl.
Excav. for Inlet. Also Req'd - Remove
Str.

Sta 710+90 - Req'd - 36"x66" C.M.P. Cross
Culv. & 30 Cu.Yds. Uncl.
Excav. for Inlet.

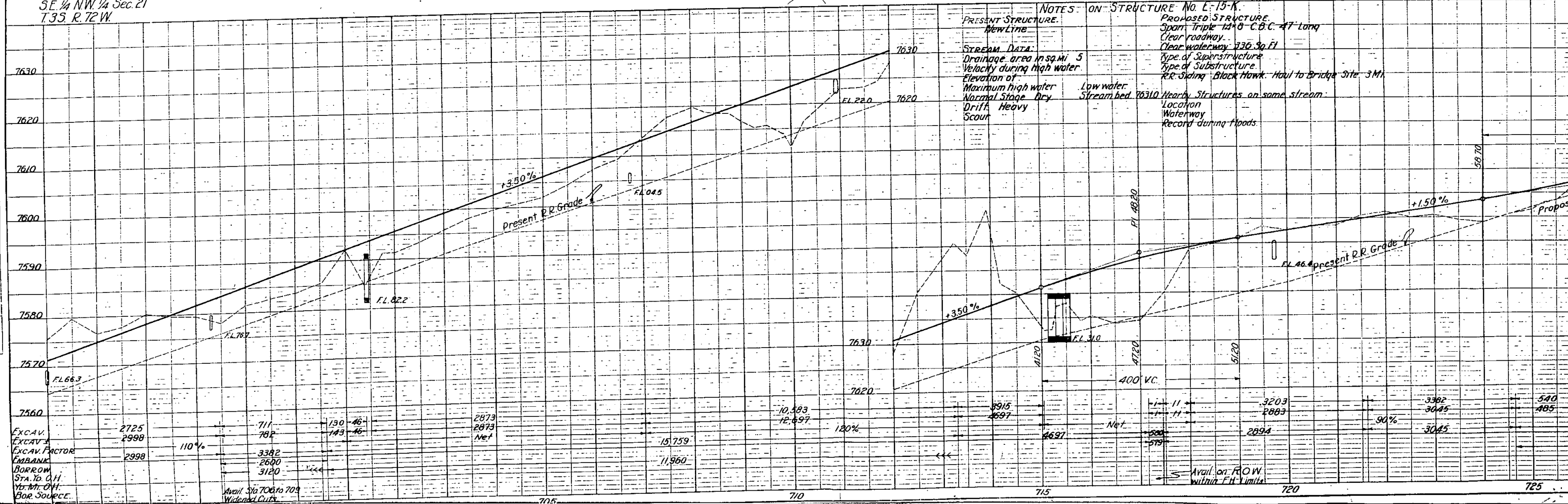
FORCE ACCOUNT (Work By R.R. Co. Forces)
Sta 714+ Req'd - Move & Reset Water Tank
& Pipe Line.

FORCE ACCOUNT - No FEDERAL AID (Work By R.R. Co. Forces)
Sta 716+ - 717+ - Req'd - Move Section House
off R.O.W.

Sta 718+00 - Req'd - 100 Cu.Yds. Uncl. Excav.
for Road Appr. Rt.

Sta 719+75 - Req'd - 48"x60" C.M.P. Cross Culv.
& 100 Cu.Yds. Uncl. Excav. for Inlet.

NW 1/4 NW 1/4
T.35. R.72 W.



NOTES ON STRUCTURE No. E-15-K.
PRESENT STRUCTURE: New Line.
STREAM DATA: Drainage area in sq. mi. 5
Velocity during high water.
Elevation of Maximum high water Normal Stage Dry.
Drift Heavy Scour.
PROPOSED STRUCTURE: Span Triple 14'x8' C.B.C. 47' Long
Clear roadway.
Clear waterway 336 Sq. Ft.
Type of Superstructure.
Type of Substructure.
R.R. Siding Black Hawk. Haul to Bridge Site 3 Mi.
Low water: Stream bed 76310. Nearby Structures on same stream.
Location Waterway Record during floods.

EXCAV.
EXCAV.
EXCAV. FACTOR
EMBANK.
BORROW
STA. TO O.H.
Yd. Mt. Off.
BOR. SOURCE.

Avail. Sta 700 to 709
Widened Cuts

Avail. on R.O.W.
without F.H. limits

NE 1/4 NE 1/4 Sec. 20
T35 R72 W

Sta. 731+00 - Reg'd - 24"x62' C.M.P. Cross Culv.
& 40 Cu. Yds. Uncl. Excav. for Inlet

Sta. 735+60 - Reg'd - 48"x68' C.M.P. Cross Culv. &
300 Cu. Yds. Uncl. Excav. for Inlet

Sta. 737+00 - 738+50 - Reg'd - Channel Change Lt.
(Quantities in Cross Sections)

Sta. 737+95 - Reg'd - 24"x68' C.M.P. Cross Culv.
& 30 Cu. Yds. Uncl. Excav. for Inlet

Sta. 738+70 - Reg'd - 24"x92' C.M.P. Cross Culv.
& 30 Cu. Yds. Uncl. Excav. for Inlet

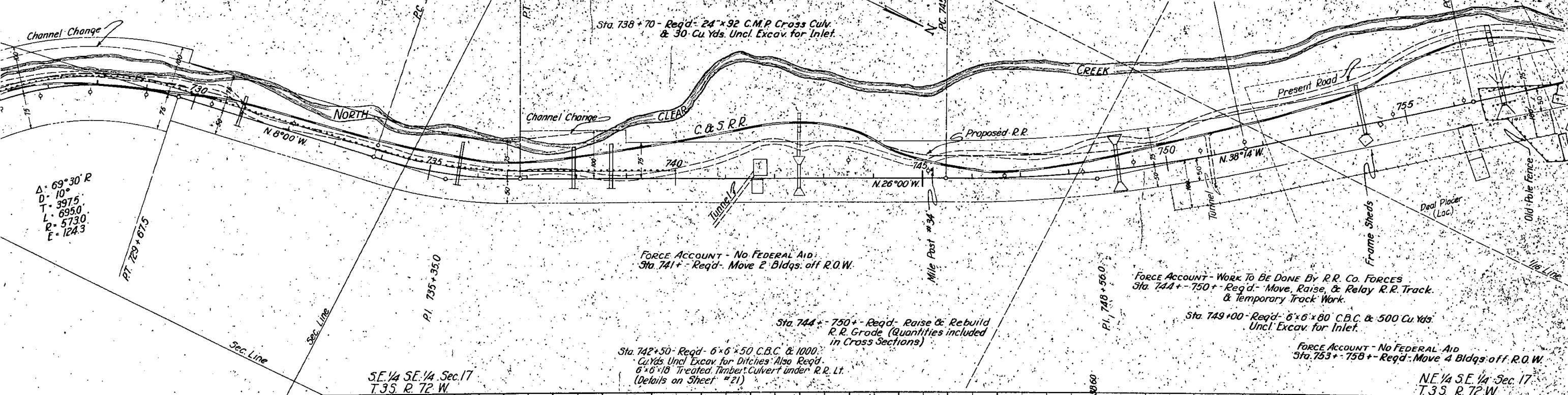
Rev. 4-27-38 - H.J.S.
Rev. Index 5-25-38 - H.J.S.
Rev. for C.D. #3 - 7-25-39 - H.J.S.
Rev. R.O.W. 755, f-5-6-54 S.W.Z.

Δ 12°14' L
D 2°
T 307.0
L 611.7
R 2865.0
E 16.4

Sta. 754+10 - Reg'd - 24"x114' C.M.P. T
Cross Culv. & 10 Cu. Yds.
Uncl. Excav. for Ditches

NW 1/4 SE 1/4 Sec. 17
T35 R72 W Δ 5°44' L
D 1°
T 267.3
L 574.2
R 5730.0
E 72

FED. ROAD DIST. NO.	STATE	U.S.W.P.H. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	WR55-429-A(1)	43	56



NE 1/4 NE 1/4 Sec. 20
T. 35 R. 72 W.

Sta. 731+00 - Reg'd - 24"x62" C.M.P. Cross Culv.
& 40 Cu. Yds. Uncl. Excav. for Inlet.

Sta. 735+60 - Reg'd - 48"x88" C.M.P. Cross Culv. &
300 Cu. Yds. Uncl. Excav. for Inlet.

$\Delta = 10^{\circ} 0' L$
 $D = 6'$
 $T = 151.3$
 $L = 300.0$
 $R = 955.0$
 $E = 11.9$

Sta. 737+00 - 738+50 - Reg'd - Channel Change Lt.
(Quantities in Cross Sections)

Sta. 737+95 - Reg'd - 24"x88" C.M.P. Cross Culv.
& 30 Cu. Yds. Uncl. Excav. for Inlet.

Sta. 738+70 - Reg'd - 24"x92" C.M.P. Cross Culv.
& 30 Cu. Yds. Uncl. Excav. for Inlet.

Rev. 4-27-38 - H.J.S.
Rev. Index 5-25-38 - H.J.S.
Rev. for C.D. #3 7-25-39 - H.J.S.
Rev. R.O.W. 75.5' ± 5-6-54 S.W.Z.

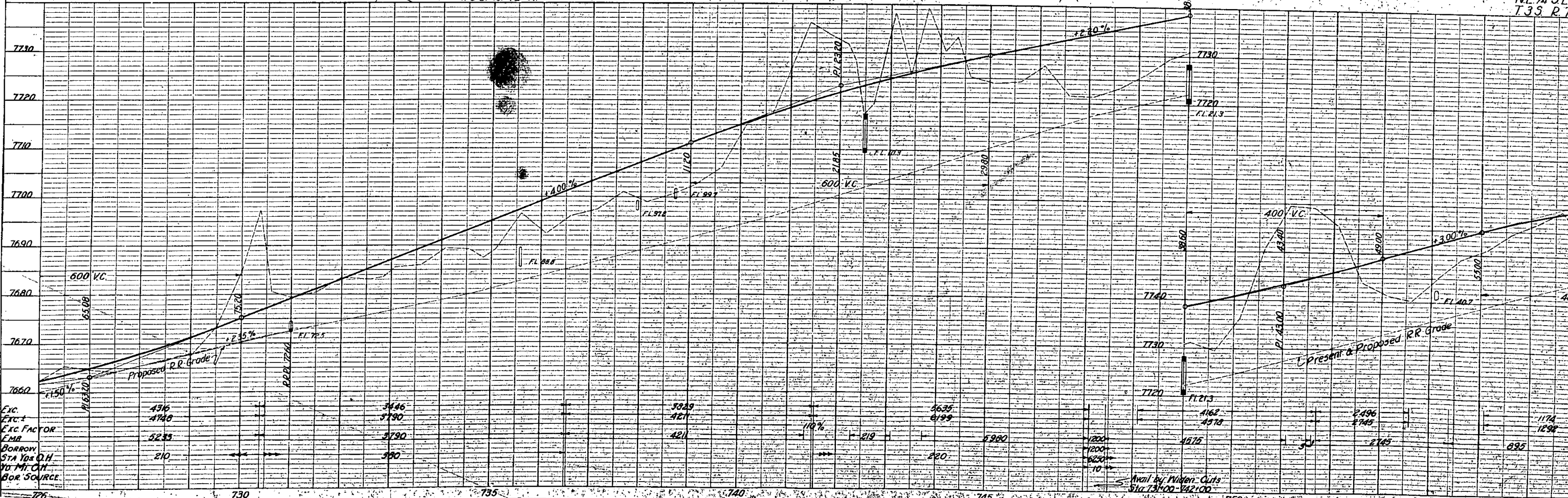
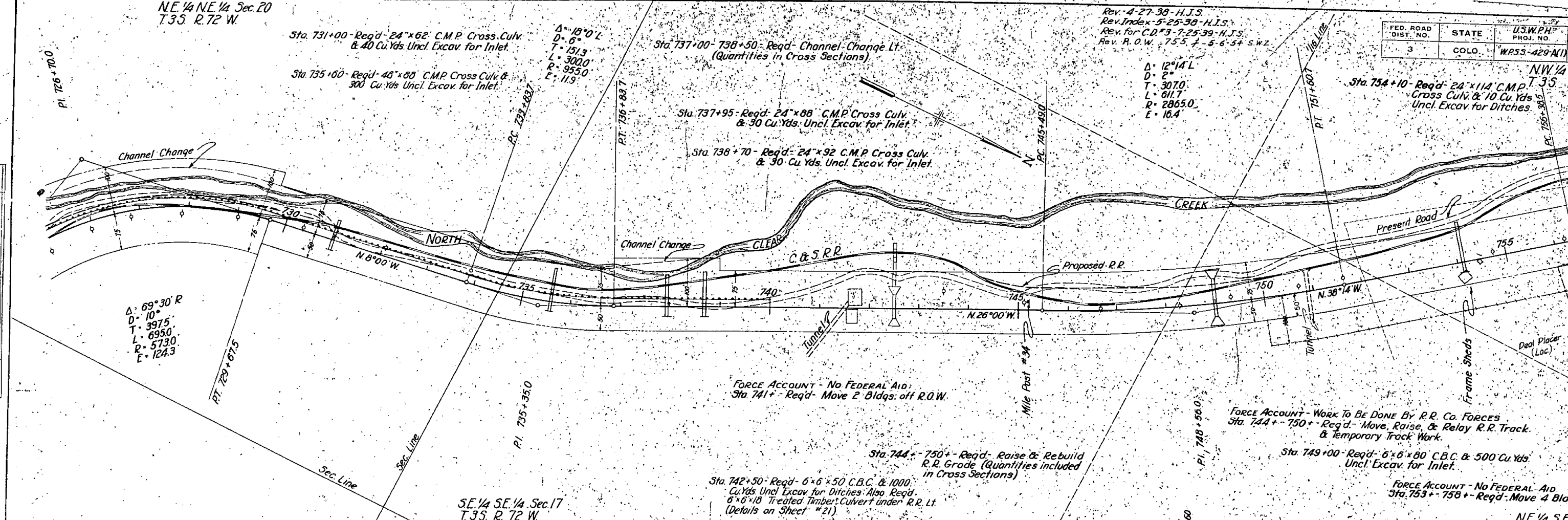
$\Delta = 12^{\circ} 14' L$
 $D = 2'$
 $T = 307.0$
 $L = 611.7$
 $R = 2865.0$
 $E = 16.4$

FED. ROAD DIST. NO.	STATE	U.S.W.P.H. PROJ. NO.
3	COLO.	WPSS-429-A(1)

Sta. 754+10 - Reg'd - 24"x114" C.M.P. T. 35 R. 72 W.
Cross Culv. & 10 Cu. Yds. Uncl. Excav. for Ditches.

NOTE: BOOK ALIGNMENT CHECKED
PT. OF WAY CHANGED

NOTE: BOOK ALIGNMENT CHECKED
STRUCTURE NOTATIONS CHANGED



1/4 SE 1/4 Sec 17
T.35 R.72 W

802+ Reqd. Raise & Rebuild R.R.
Grade (Quantities included in Cross
Sections)

$\Delta = 5^{\circ}44'1/2''$ L
D = 10
T = 2873
L = 5742
R = 57300

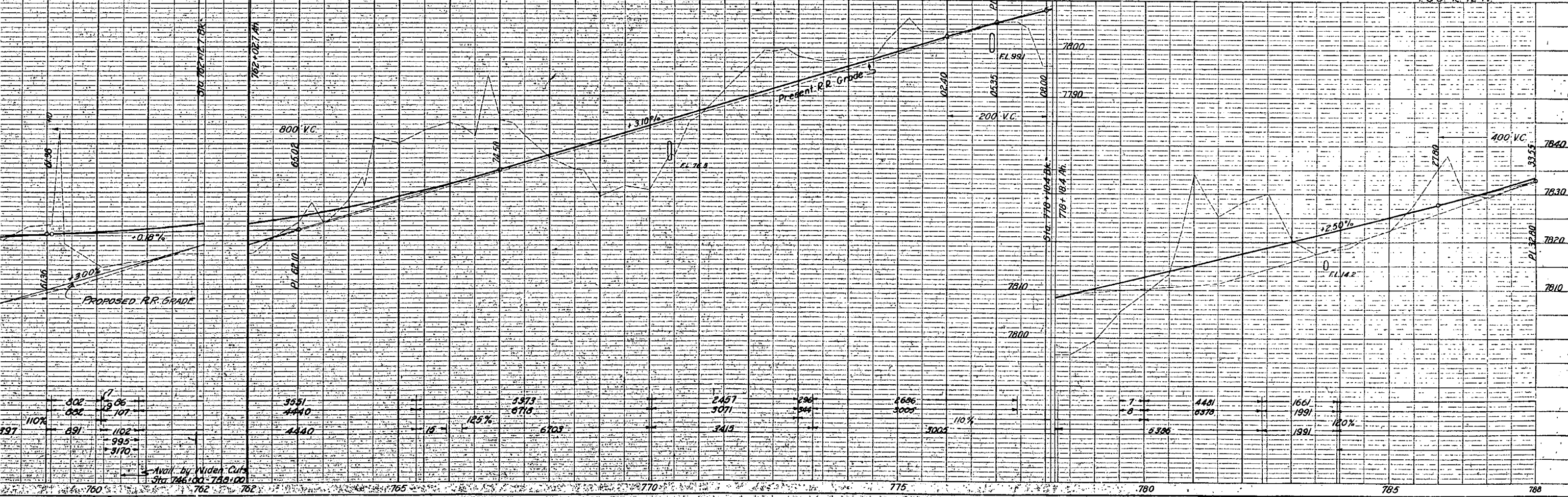
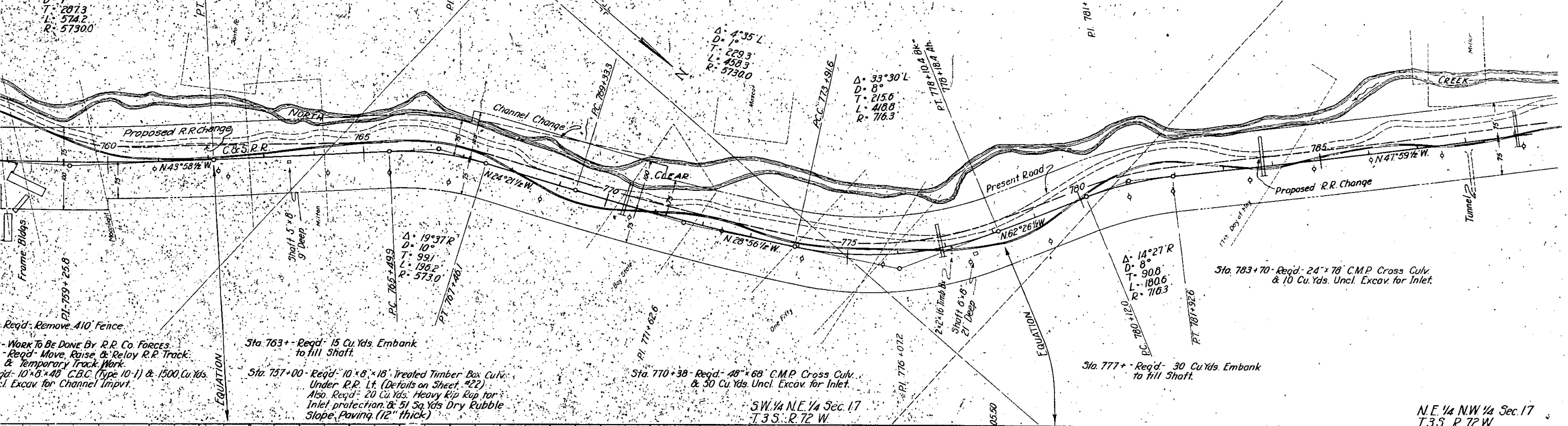
Sta 767+00-771+00: Reqd. 500 Cu Yds.
Uncl. Excav. for Channel
Change Lt.

1/4 SE 1/4 NW 1/4 Sec 17
T.35 R.72 W

Sta. 776+90- Reqd. 48'x64' C.M.P. Cross Culv.
& 50 Cu Yds. Uncl. Excav. for Inlet.
Also Reqd. Remove 1 Structure.

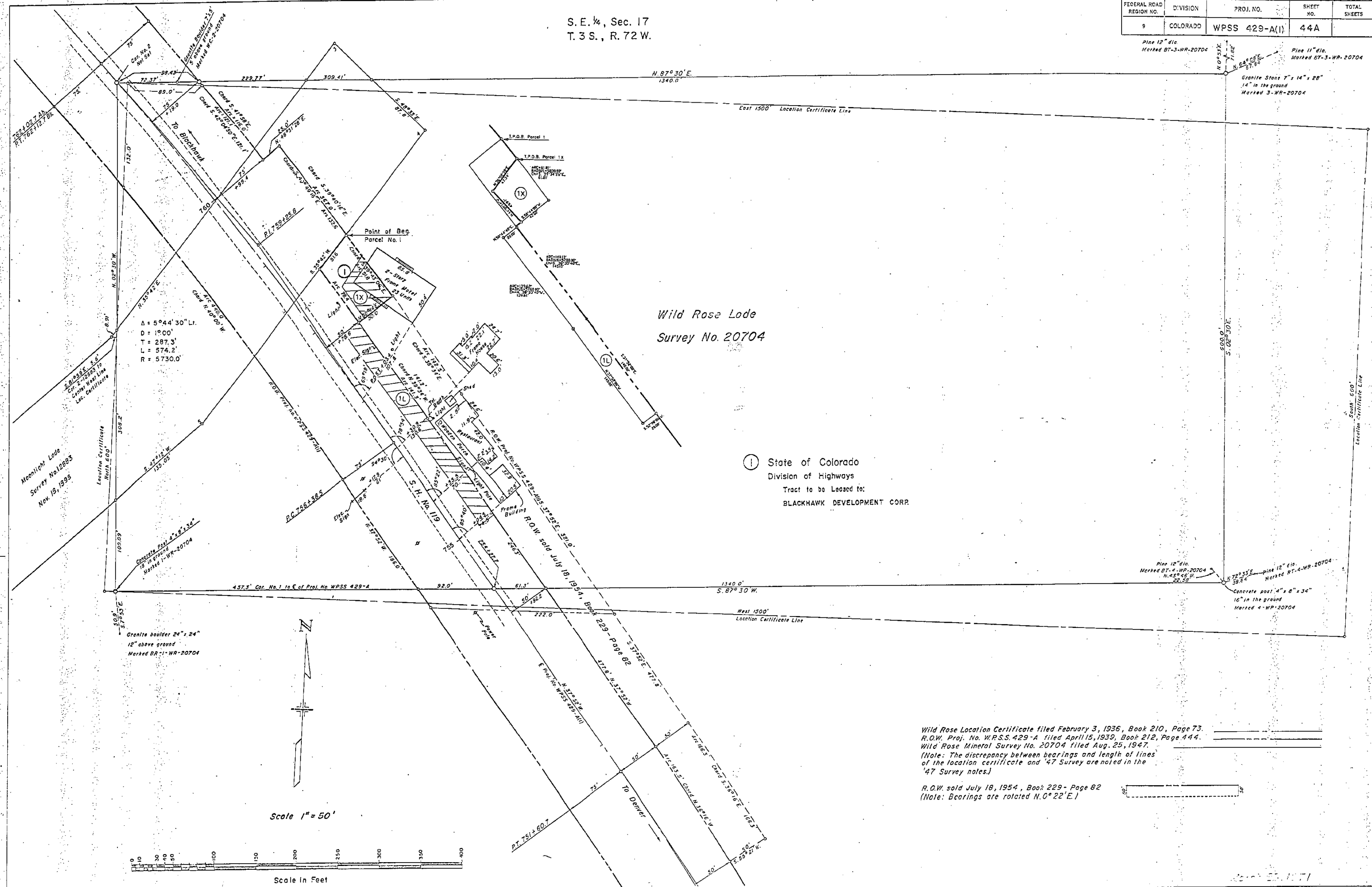
FED. ROAD DIST. NO.	STATE	USWPH. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	WP35-429A(1)	44	

Revised 4-27-38-H.J.S.
Rev. Index 5-25-38-H.J.S.
Rev. for C.D. 7-25-39-H.J.S.
Rev. R.O.W. 755 + 5-6-54 S.W. I.



FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	WPSS 429-A(1)	44A	

S.E. 1/4, Sec. 17
T. 3 S., R. 72 W.

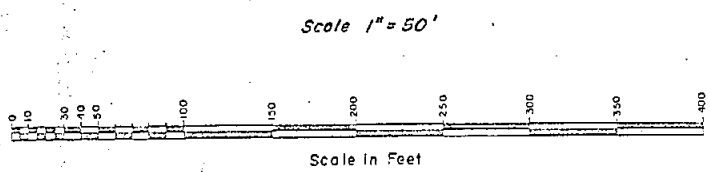


Wild Rose Lode
Survey No. 20704

① State of Colorado
Division of Highways
Tract to be Leased to:
BLACKHAWK DEVELOPMENT CORP.

Wild Rose Location Certificate filed February 3, 1936, Book 210, Page 73.
R.O.W. Proj. No. WPSS 429-A filed April 15, 1939, Book 212, Page 444.
Wild Rose Mineral Survey No. 20704 filed Aug. 25, 1947.
(Note: The discrepancy between bearings and length of lines of the location certificate and '47 Survey are noted in the '47 Survey notes.)

R.O.W. sold July 18, 1954, Book 229 - Page 82
(Note: Bearings are rotated N. 0° 22' E.)



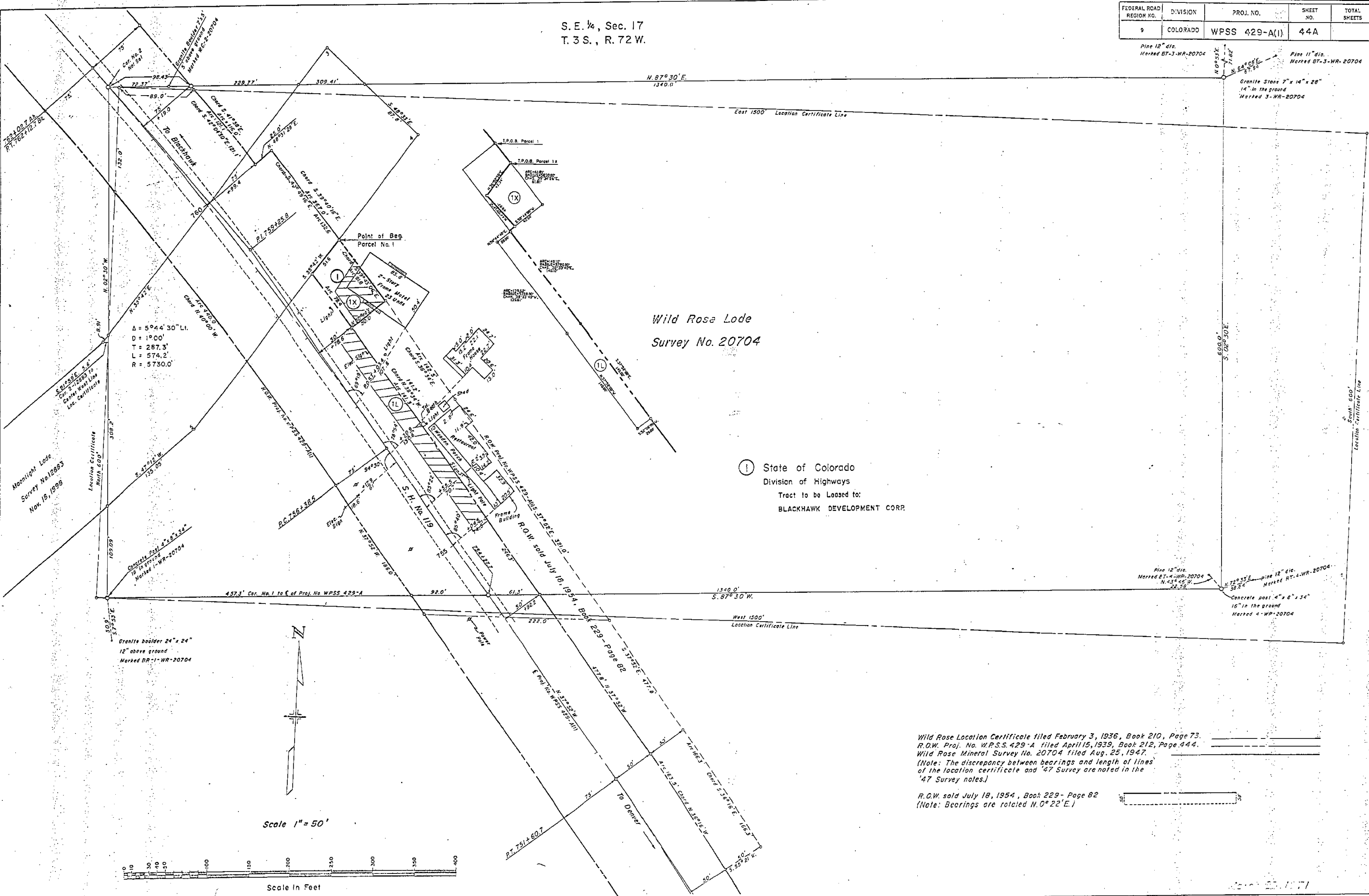
S.E. 1/4, Sec. 17
T. 3 S., R. 72 W.

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	WPSS 429-A(1)	44A	

Pine 12" dia.
Marked BT-3-WR-20704

Pine 11" dia.
Marked BT-3-WR-20704

Granite Stone 7" x 14" x 28"
14" in the ground
Marked 3-WR-20704



① State of Colorado
Division of Highways
Tract to be Leased to:
BLACKHAWK DEVELOPMENT CORP.

Wild Rose Location Certificate filed February 3, 1936, Book 210, Page 73.
R.O.W. Proj. No. WPSS 429-A filed April 15, 1939, Book 212, Page 444.
Wild Rose Mineral Survey No. 20704 filed Aug. 25, 1947.
(Note: The discrepancy between bearings and length of lines
of the location certificate and '47 Survey are noted in the
'47 Survey notes.)

R.O.W. sold July 18, 1954, Book 229- Page 82
(Note: Bearings are rotated N. 0° 22' E.)

05-Req'd- 24"x72' C.M.P. Cross Culv.
& 30 Cu.Yds. Uncl. Excav. for Inlet.

~~PROPOSED MATERIAL~~

E 1/4 N.W. 1/4 Sec. 17
T 5 S. R 72 W.

Sta. 803+00 - Req'd - 36"x90' C.M.P. Cross Culv.
& 700 Cu.Yds. Uncl. Excav. for Ditches.

Sta. 814+80-Reqd- 300 Cu.Yds Embank for
Road Approach Lt.

Sta. 804+00- Reg'd- 48"x90' C.M.P. Cross Culv.
& 900 Cu.Yds. Uncl. Excav. for Ditches.

Sta. 804+-815+- Reg'd- Raise & Rebuild R.R. Grade
(Quantities included in Cross Sections)

FORCE ACCOUNT - WORK TO BE DONE BY R.R. CO. FORCES.
Sta. 804+-815+- Reqd. Move, Raise, & Relay R.R. Track.

Sta. 808+25-815+75-Req'd: 3000 Cu Yds. Uncl. Excav.
for Channel Change Lt.

Sta. 799+00 - 801+50 - Reg'd - Channel Change Lt.
(Quantities included in Cross Sections)

Sta. 799+40- Req'd. 36" x 82' C.M.P. Cross Culv.
& 40 Cu.Yds. Uncl. Excav. for Inlet.

Sta. 809+75-Req'd- 36"x68" C.M.P. Cross Culv.
& 20 Cu.Yds. Uncl. Excav. for Inlet.

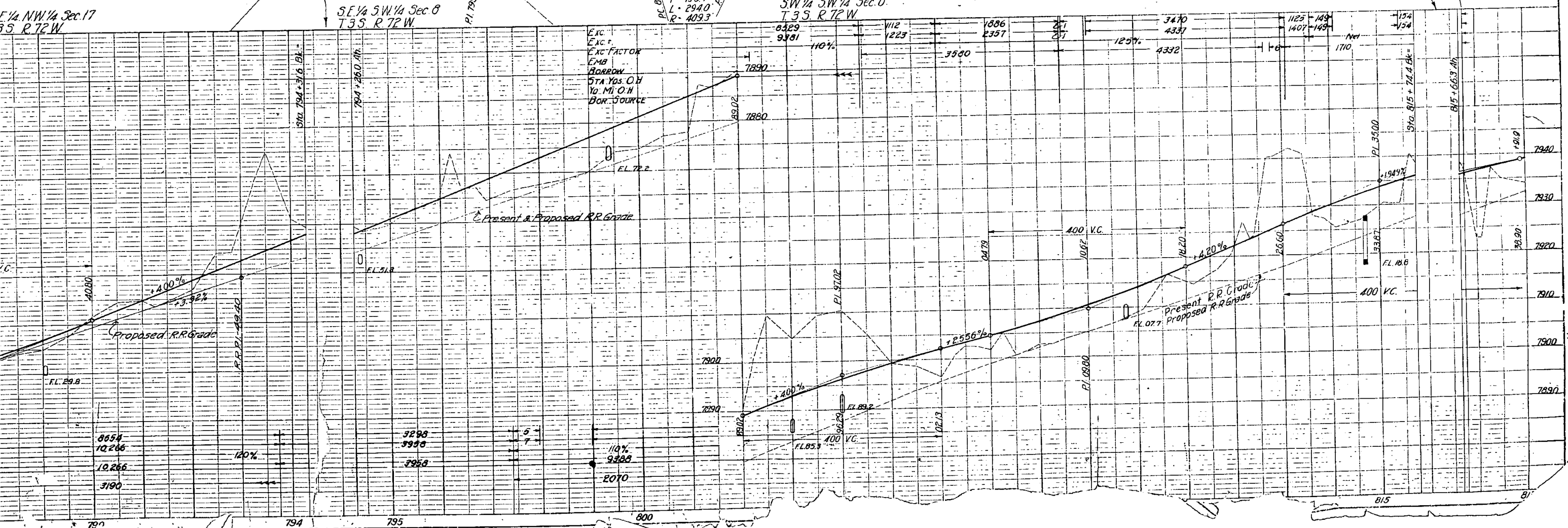
Sta. 814+ - 815+ - Reqd. - Move 2 Bldgs & Scale Pit
of R.O.W. - FORCE ACCOUNT - No FED AID

Sta. 814 + 70 - Reg'd - 8'x8'60" - C.B.C. (Type - 8' III -
Details on Sheets 20 & 25) 1000 Cu. Yds.
Uncl. Excav. for Channel Impvt.

P.L. 819, 16.0

Revised - 4-27-38-HJS
Rev. Index - 5-25-38-HJS.
Rev. for C.D. #3 - 7-25-39-HJS.
v for CD #3 Gd. Fen 10-11-39 WWH

W.P.H. J. NO.	SHEET NO.	TOTAL SHEETS
S-429-A(1)	45	



NW 1/4 NW 1/4 Sec. 17
T3S. R72W

Sta. 803+00 - Reg'd - 36"x90" C.M.P. Cross Culv.
& 700 Cu.Yds. Uncl. Excav. for Ditches.

Sta. 814+80 - Reg'd - 300 Cu.Yds Embank for
Road Approach Lt.

Sta. 789+05 - Reg'd - 24"x72" C.M.P. Cross Culv.
& 30 Cu.Yds Uncl. Excav. for Inlet.

Sta. 794+40 - Reg'd - 24"x68" Cross
Culv. & 40 Cu.Yds Uncl. Excav.
for Inlet.

Sta. 804+00 - Reg'd - 48"x90" C.M.P. Cross Culv.
& 900 Cu.Yds. Uncl. Excav. for Ditches.

Sta. 804+815+ - Reg'd - Raise & Rebuild R.R. Grade
(Quantities included in Cross Sections)

FORCE ACCOUNT - WORK TO BE DONE BY R.R. CO. FORCES.
Sta. 804+815+ - Reg'd. Move, Raise, & Relay R.R. Track.
& Temporary Track Work.
Sta. 808+25-815+75 - Reg'd - 3000 Cu.Yds. Uncl. Excav.
for Channel Change Lt.

Sta. 799+00 - 801+50 - Reg'd - Channel Change Lt.
(Quantities included in Cross Sections)

Sta. 799+40 - Reg'd - 36"x82" C.M.P. Cross Culv.
& 40 Cu.Yds Uncl. Excav. for Inlet.

Sta. 814+70 - Reg'd - 8"x8" 60" C.B.C.
Details on Sheets 20
Uncl. Excav. for Chan

Sta. 809+75 - Reg'd - 36"x68" C.M.P. Cross Culv.
& 20 Cu.Yds. Uncl. Excav. for Inlet.

Sta. 814+815+ - Reg'd - Move 2 Bldgs & Scale Pit
of ROW - FORCE ACCOUNT - NO FED. AID

SW 1/4 SW 1/4 Sec. 8
T3S. R72W

NE 1/4 NW 1/4 Sec. 17
T3S. R72W

SE 1/4 SW 1/4 Sec. 8
T3S. R72W

