NEW MEXICO
STATE HIGHWAY COMMISSION
PLAN & PROFILE
OF PROPOSED
STATE HIGHWAY

NEW MEXICO PROJECT

№ S-1529(4)

TAOS COUNTY

SCALES: PLAN 1" = 100' & 50'; PROFILE HOR. 1" = 100', VERT. 1" = 10'; SCALE OF LAYOUT 1" = 1 MILE

LENGTH OF PROJECT IN MILES 8.131

LENGTH OF NON-PARTICIPATING CONSTR. IN MILES 1.112

FINAL PLANS

CONVENTIONAL SIGNS ON PLAN

ON PROFILE

Colorado

VICINITY MAP

INDEX OF SHEETS

NUMBER	DESCRIPTION	SERIAL	DATE
1	TITLE SHEET		
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4	GENERAL NOTES & LEGEND OF QUANTITIES		
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12	TON MILE MASS DIAGRAM		
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36	WOVEN WIRE FENCE	F-3-2	
37	BARBED WIRE FENCE	F-3-3	
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39	[illegible]		6-21-62
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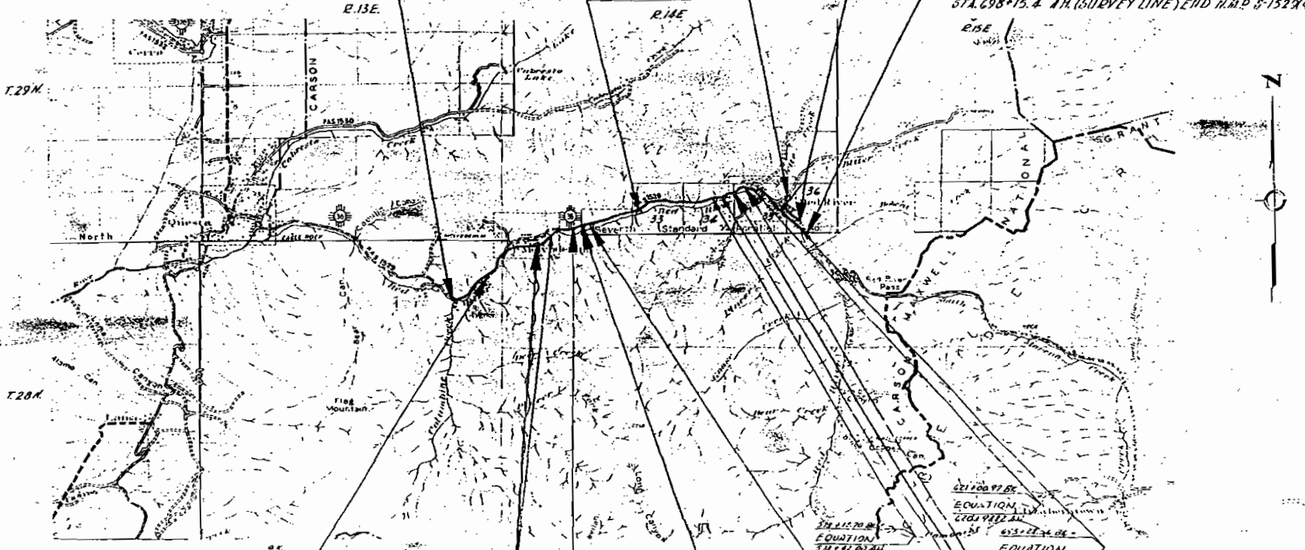
50-54	DATA BOOKLET		

PROJECT NO. S-1529 (4) 1 24

I certify that these plans have been checked under my supervision and that corrections have been made to the best of my knowledge & belief to be the proper as built.
8-1-61
Chief Engineer

RECEIVED
00 MAY -1 PM 1:30
SUPERFUND DIV.
DIRECTOR'S OFC.

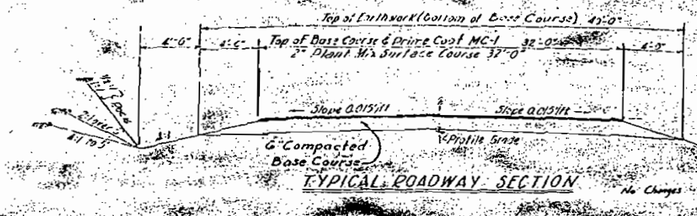

STA. 270+63.38 END N.M.P. S-1529(1)=
STA. 270+63.38 BEGIN N.M.P. S-1529(4) B.O.P.
BORROW PIT
SURFACING PIT
NON-PARTICIPATING CONSTRUCTION
STA. 658+18.82 BK. (CONSTRUCTION LINE) = STA. 658+15.4 AH. (SURVEY LINE) END N.M.P. S-1529(4)
R.13E.
R.14E
T.29N.
T.28N.
CARSON
TAOS
Fire Mountain
Standard
Seventh
North
Taos
Arroyo Hondo
Ranchos de Taos
Valdez
Ojo Caliente
Questa
Cerro
Tres Piedras
Ojo Sarco
Chamisal
Peñasco
Dixon
Embudo
Pilar
Ojo Feliz
Rio Grande
Red River
Eagle Nest
Angel Fire
Black Lake
Taos Pueblo
Taos Ski Valley
Taos Junction
Cerro Colorado
Tres Piedras Pass
Cerro Pelado
Cerro Negro
Cerro Chiquito
Cerro Chato
Cerro Pinto
Cerro Tres Piedras
Cerro Colorado

8-10-60 - Revised notes on Tack Coat and thickness of Base Course.

FED. RD. DIV. NO.	STATE	NMP S-1529 (4)	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	NEW MEXICO		1961	2	84

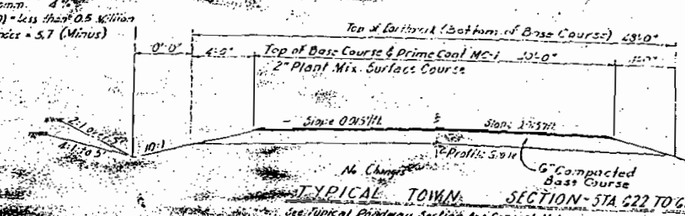
Cuts may be widened for embankment material, as shown on Cross Sections or as directed by the Engineer

A.D.T. (1959) 500
A.D.T. (1979) 1200
D.H.V. (1979) 240
Heavy Comm. 4%
ESAL (C) - Less than 0.5 Million
Traffic Index = 5.7 (Minus)



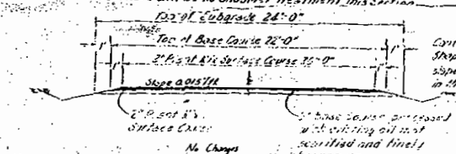
TYPICAL ROADWAY SECTION

Widen 2' for fills over 10' high



TYPICAL TOWN SECTION - STA 622 TO 639

See Typical Roadway Section for General Notes
Note: There will be no Shoulder Treatment this Section



Contractor to blade and shape existing roadside slopes. Cost to be included in the unit price bid for other items.

TYPICAL SECTION
NON-PARTICIPATING

SUBGRADE NOTES: The natural ground upon which fills are to be made and bottoms of cuts (except rock) shall be scarified and finely broken up to 6" depth. The loose material shall then be consolidated by watering and rolling. See table below for "Estimated Factors for Quantities" and equipment used. See Section 18 of Standard Specifications, also Section 21 Compaction. The sub grade shall be watered and rolled to secure compaction as required by the Standard Specifications. See table below for "Estimated Factors for Quantities" and equipment used. Density requirements to be as outlined under Section 21 Compaction of the Standard Specifications.

SURFACING NOTES: Base Course to be placed "compacted depth". Base Course is to be watered and rolled to secure compaction. See Table for "Estimated Factors for Quantities", and Equipment used. After the Base Course has been placed, shaped and compacted to true grade and cross-section, a prime coat of Bituminous Material, Type MC-1 shall be applied and rolled. The Plant Mix Surface Course shall be placed as shown on "TYPICAL ROADWAY SECTION." Bituminous Material, Type 85-100 is to be used in the Plant Mix Surface Course. See Table for "Estimated Factors for Quantities" and Equipment used. Where Rock is encountered in cuts and fills, it shall be plated with 4" of Base Course material in addition to material recommended by the Laboratory.

SIDE SLOPE NOTES: In general use 4:1 slopes except where height of fill is 5' or more, in which case use 2:1 slopes. Fills over 10' widen 2'. Use 4:1 backslopes except where depth of cut exceeds 5' in which case use 2:1. See Cross Sections. Use flat backslopes at ends of cuts and extend cut ditch for enough to carry drainage clear of roadway embankment. Where cut and fill slopes merge, same shall be warped so there is no abrupt change in slope. Roadside improvements included in this Project are flattening slopes, and slope rounding, digging inlet and outlet ditches and diverting water at mouth of cuts. No future roadside improvements are contemplated at this time.

QUANTITY NOTES: Estimated weight of Untreated Surfacing = 3800 Lbs. per Cu.Yd. Estimated weight of Plant Mix Surface Course = 3900 Lbs. per Cu.Yd. The amount of rolling actually performed by each type of roller may be varied as directed by the Project Engineer. amounts shown hereon are for estimating purposes only. Any watering or rolling performed in addition to that required for the compaction of the Subgrade and Base Course shall be ordered in writing by the Project Engineer. Amounts of asphaltic materials and types shown are for estimating purposes only; correct amounts will be determined by the Laboratory. Type and Grade of Asphalt may be changed one grade during construction to meet varying conditions.

TACK COAT: A Tack Coat of Type 85-100 Asphaltic Material, if found necessary, shall be applied at the rate of 0.01 to 0.05 Gal. per Sq. Yd. between the Primed Surface and the Plant Mix Surface Course.

SURFACING NOTES: The existing oil mat shall be scarified and finely broken up and this material shall be processed with 2" of Base Course material. After the material from the existing oil mat and the Base Course material have been mixed, shaped and compacted to true cross-sections, a Prime Coat of Bituminous material Type MC-1 shall be applied and rolled. The Plant Mix Surface Course shall be placed as shown on "Typical Section, Non-Participating." Bituminous material Type 85-100 is to be used in Plant Mix Surface Course. See table for "Estimated Factors for Quantities" and equipment used. The Contractor will be required to blade and shape roadside slopes for which there will be no direct payment, the cost to be included in the unit price bid for other items. No other roadside improvements are contemplated at this time. See Typical Roadway Section for General Notes.

* Each course of Base Course not to exceed 6" compacted thickness.
If samples lifted from the finished Subgrade indicate that additional support is necessary, surfacing shall be increased in accordance with written recommendation from the central laboratory.
When unsuitable material is encountered in the grading operations, same to be stockpiled and used to flatten slope in lieu of introducing overhaul to dispose of the material. This work to be performed as directed by the Engineer.

ESTIMATED FACTORS FOR QUANTITIES

ITEM	TOTAL ROLLING REQUIRED	PNEUMATIC TIRED ROLLER	STEEL TIRED ROLLER	TAMPING ROLLER	50 TON ROLLER	WATER REQUIRED	BITUMINOUS MATERIAL TYPE: MC-1	BITUMINOUS MATERIAL TYPE 85-100	COVER MATERIAL	SURFACING WEIGHTS
Natural Ground	16 Hours Per Mile	—	—	50%	50%	160 M.Gals Per Mile	—	—	—	—
Sub-Grade	150 Cubic Yards compacted per Hr	20%	[redacted]	40%	40%	30 Gals. per Cubic Yards	[redacted]	—	—	[redacted]
Base Course	150 Tons Compacted per Hour	40%	20%	—	40%	25 Gals. per Ton	—	—	—	3300# per Cu. Yd.
Prime Coat	1/2 Hour per mile per foot width	100%	—	—	—	—	0.40 Gals. per Sq. Yd.	—	—	—
Tack Coat	—	—	—	—	—	—		0.05 Gal. per Sq. Yd.	—	—
* Plant Mix Surface Course	1 1/2 Hours per Mile per foot width per inch of Thickness	40%	60%					8.0% by Mixed Aggregate wt.		3900# per Cu. Yd.

* Rolling Quantities shown for Rolling Plant Mix Surface Course are for Estimating Purposes only. There will be no direct payment for this item.

Station	To	Station	Linear Feet	Area
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1330.03	[illegible]
[illegible]	[illegible]	[illegible]	2370.02	[illegible]
[illegible]	[illegible]	[illegible]	901.52	[illegible]
[illegible]	[illegible]	[illegible]	722.11	[illegible]
[illegible]	[illegible]	[illegible]	12122.10	[illegible]
[illegible]	[illegible]	[illegible]	160.65	[illegible]
[illegible]	[illegible]	[illegible]	2116.16	[illegible]
[illegible]	[illegible]	[illegible]	419.21	[illegible]
[illegible]	[illegible]	[illegible]	312.21	[illegible]
[illegible]	[illegible]	[illegible]	249.38	[illegible]
[illegible]	[illegible]	[illegible]	299.27	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Total		[illegible]	[illegible]	

NON-PARTICIPATING

61+10	42+51.4	4311.4	0.777
[illegible]	[illegible]	[illegible]	[illegible]
West 3rd St		2208	0.049
West 2nd St		312.0	0.059
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
Total		[illegible]	[illegible]

WIDENED FILLS
when height of fill is 10' or greater

Plant Mix

SHOULDER DETAIL
Hot Mix to be placed as shown by broken line. Full line represents Section after rolling Hot Mix.

FED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
9	NEW MEXICO	NMP S-1529(6)	1961	2b

Prov. added 8-9-60

GENERAL NOTES:

1. New Mexico State Highway Department Specifications (1954 Edition) shall govern construction of this project unless otherwise specified.
2. When the material encountered in excavation is of satisfactory quality it shall be hauled to the top of embankment after the lower part of embankment is completed.
3. The contractor shall provide, and assume all responsibility for haul roads between the materials pit and the job.
4. Stripping from the material pits will not be paid for unless specified in the Proposal Schedule.
5. All pits used by the contractor shall be leveled off and blended to as nearly natural contours as possible after required material has been removed. There shall be no compensation for this work.
6. The contractor shall exercise due care to preserve trees and shrubbery outside the actual construction limits of this project.
7. All obstructions within the right of way shall be removed except those designated to remain as encroachments. These obstructions not marked on the plans shall be removed by the contractor. Cost of this removal shall be included in the Unit Price bid for various contract bid items.
8. The contractor shall exercise extreme care in removing trees, stumps and roots in order not to damage utilities or adjacent property.
9. All debris within the right of way shall be removed by the contractor. Cost to be included in other bid items.
10. All reinforcing bars used on this project shall conform to New Mexico State Highway Department Standard Specifications for road and bridge construction, (1954 Edition) except that bars shall be new billet steel, intermediate grade.
11. The contractor shall provide for and maintain all-weather detours during construction of this project, for which no compensation will be allowed. Where traffic is detoured over raw construction, the contractor will be required to keep the sections used in good riding condition and free from any hazards to traffic. The safety and comfort of the traveling public shall be the prime consideration.
12. No construction stakes shall be set through areas to be cleared of old building foundations, sidewalks and other obstructions, until such clearing has been accomplished. After the construction area has been cleared, construction stakes will be set as soon as practicable.
13. Prior to construction the contractor shall ascertain the true location and depth of all buried utilities. This information may be obtained from the Owners.
14. Non fence is not a right of way consideration. All existing fences within right of way to be removed by Contractor. Posts and wires to be disposed of as directed by the Engineer.
15. Quantities shown on plans for barbed wire fence, woven wire fence, gates and right of way markers are approximate only. Correct quantities for these items will be furnished by the Engineer.
16. Excavation for "Ditch and outlet ditches to be paid for as Excavation Unclassified [redacted]
17. Excavation for pipe culverts as shown on plan sheets is for information only. The contractor only shall be paid for this item will be as specified under Special Provision modifying Section 17 - Excavation for Pipe Culverts.
18. The contractor shall have the option of placing either Corrugated Galvanized Metal Culvert Pipe or Standard Reinforced Concrete Pipe where "Culvert Pipe" is specified. Whichever type of culvert pipe is used, it shall meet all requirements for the respective types as outlined in the Standard Specifications, (1954 Edition).
19. 2% of Sprinkle and Skill, variable throughout Project.

TURNOUTS (CONT'D)

STATION TO STATION	LOC	SIZE	REMARKS
666+63	Lt	20'0.1	
[illegible]	Rt	20'0.1	
683+00	Lt	20'0.1	
355+50	Rt & Lt	20'0.1	
[illegible]	[illegible]	[illegible]	
688+10	Lt & Rt	20'0.1	
690+00	Lt	20'0.1	1-29"x18" Arch
690+25	Rt	16'0.1	12' Cattle Guard
690+50	Lt	20'0.1	1-29"x18" Arch
444+00	Rt	16'	
500+00	Rt	16'	
501+15	Lt	20'0.1	
501+00	Lt	16'	
655+00	Rt	20'0.1	
669+00	Rt	20'0.1	24" Pipe Culvert
669+62	Rt	16'0.1	
673+00	Lt	20'0.1	

WOVEN-WIRE FENCE

STATION TO STATION		LOC	SPACING	LIN. FT.
681+33	684+70	Lt	0	3680
689+88	690+50	Rt	0	1560
Sub-Total			7-1	5240
[illegible]				[illegible]
Total			7-1	[illegible]

For details see Sheet 4 of 7-5-L

PROTECTION DITCH & DYKE

STATION TO STATION		LOC	SIZE	CU YD	STATION TO STATION		LOC	SIZE	CU YD
334+80	344+00	Lt	400'x19"x2'	[illegible]	493+00	503+00	Lt	1000'x16"x2'	[illegible]
339+50	341+75	Lt	300'x10"x2'	[illegible]	515+50	518+75	Lt	300'x10"x2'	[illegible]
344+00	346+25	Lt	200'x10"x2'	201	528+30	532+80	Lt	280'x10"x3'	[illegible]
[illegible]	[illegible]	Lt	225'x10"x2'	243	527+75	532+00	Lt	425'x10"x2'	[illegible]
378+60	[illegible]	Rt	300'x10"x2'	311	539+40	543+50	Lt	900'x16"x2'	[illegible]
385+80	[illegible]	Rt	300'x10"x2'	311	543+05	565+80	Lt	1820'x16"x3'	[illegible]
388+10	[illegible]	Rt	50'x10"x2'	32	563+25	570+10	Lt	500'x10"x3'	[illegible]
439+00	443+50	Lt	250'x10"x2'	363	581+00	583+00	Lt	100'x10"x2'	[illegible]
445+00	446+50	Lt	150'x10"x2'	155					
[illegible]	450+05	Lt	200'x10"x2'	[illegible]					
[illegible]	[illegible]	Lt	450'x20"x4'	[illegible]					
[illegible]	[illegible]	Lt	525'x20"x4'	[illegible]					
479+50	485+75	Lt	725'x10"x4'	[illegible]					
[illegible]		Lt	100'x10"x4'	267					

TOTAL CU.YD. [illegible]

TURNOUTS

STATION TO STATION	LOC	SIZE	REMARKS
271+20 & 272+86	Rt	20'0.1	See Sheet 23
271+25	Lt	20'0.1	
272+62	Lt	20'0.1	
273+23	Rt	20'0.1	
292+00	Lt	20'0.1	1-29"x18" Arch
[illegible]	Rt	20'0.1	
[illegible]	Rt	20'0.1	
303+00	Rt	20'0.1	
309+00	Lt	20'0.1	1-29"x18" Arch
[illegible]	Rt	20'0.1	
[illegible]	Lt	20'0.1	
[illegible]	Lt	20'0.1	
[illegible]	Lt	20'0.1	
[illegible]	Rt	16'	
[illegible]	Rt	16'	
[illegible]	Rt	16'	
[illegible]	Rt	20'0.1	29"x18" Arch
[illegible]	Lt	20'0.1	
[illegible]	Lt	20'0.1	
[illegible]	Lt	20'0.1	
[illegible]	Lt	20'0.1	
[illegible]	Lt	20'0.1	
[illegible]	Rt	20'0.1	
[illegible]	Lt	20'0.1	24" Pipe Culvert
[illegible]	Lt & Rt	20'0.1	24" Pipe Culvert
494+00	Rt	20'0.1	
[illegible]	Rt	20'0.1	
[illegible]	Rt	20'0.1	
569+90	Rt	20'0.1	Gate
[illegible]	Rt	20'0.1	
571+85	Lt	20'0.1	29"x18" Arch
[illegible]	Lt	20'0.1	29"x18" Arch
[illegible]	Lt	20'0.1	
578+15	Rt	20'0.1	1-18" CG
580+30	Rt	6'	Gate
595+13	Lt	[illegible]	
[illegible]	Rt	20'0.1	[illegible]
609+80	Rt	16'	Gate
577+78	Lt	20'0.1	1-29"x18" Arch
616+25	Rt	20'0.1	Gate
617+25	Rt	20'0.1	Gate
620+18	Rt	20'0.1	
[illegible]	Lt	20'0.1	
[illegible]	Rt	20'0.1	
[illegible]	Lt & Rt	20'0.1	29"x18" Lt
[illegible]	Rt	20'0.1	
[illegible]	Rt	20'0.1	
[illegible]	Lt & Rt	20'0.1	29"x18" U
[illegible]	Lt & Rt	20'0.1	2-Pipes
632+90	Lt & Rt	20'0.1	29"x18"
[illegible]	Lt & Rt	20'0.1	[illegible]
[illegible]	Rt	20'0.1	Gate
[illegible]	Rt	20'0.1	Gate
[illegible]	Lt	20'0.1	[illegible]
643+39.5	Lt & Rt	20'0.1	
650+35	Rt	20'0.1	
652+19.5	Lt & Rt	20'0.1	
655+79.5	Lt & Rt	20'0.1	
[illegible]	Rt	20'0.1	
662+99.5	Lt & Rt	20'0.1	1-29"x18" Arch Lt
[illegible]	Rt	16'	

REMOVAL OF DRAINAGE STRUCTURES

STATION	STRUCTURE	LOC	REMARKS
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Timber Bridge 11'x13'	Lt & [illegible]	
417+15	Timber Bridge 27.7'x16.7'	Lt	
428+05	Timber Bridge 34'x19.2'	Lt	
435+50	Timber Bridge 12'x6.7'	Lt	Flume Protection
462+36	1-18"x33" Corrugated Metal Culvert	Rt	
491+24	1-30"x23.7" Corrugated Metal Culvert	Rt	
504+02	1-30"x27.9" Corrugated Metal Culvert	Rt	
532+03.1	1-30"x28.4" Corrugated Metal Culvert	Lt	
543+61.3	1-30"x26.7" Corrugated Metal Culvert	Rt	
565+05.9	1-24"x28.1" Corrugated Metal Culvert	Rt	
586+11	1-24"x22.8 Corrugated Metal Culvert	Rt	
591+55	1-24"x28 Corrugated Metal Culvert	Lt	
617+80	1-36"x32" Corrugated Metal Culvert	Lt	
625+20	1-18"x23.4" Corrugated Metal Culvert	Rt	
650+33.6	1-24"x33.4" Corrugated Metal Culvert	Lt	
632+42.4	1-24"x32.1" Corrugated Metal Culvert	Lt	
653+21.8	1-24"x49" Corrugated Metal Culvert	Lt	
659+35.9	Timber Bridge 20.6'x20'	Lt	
662+50	1-30"x50" Corrugated Metal Culvert	Lt	
624+60	1-24"x70" Corrugated Metal Culvert	Lt	
629+38	1-24"x14" Corrugated Metal Culvert	Lt	

USGS. BM REMOVE & RESET

STATION	LOC
406+16'	Lt
509+57'	Lt

S P E C I A L

PROVISIONS

For Minimum Wage Rates
For Handling Traffic 11-10-57
For Control of Traffic 10-25-56
Modifying Section 12 Clearing & Grubbing 10-7-57
Revising Section 15 Roadway and Drainage Excavation and Section 18 - Embankment 5-9-60
Modifying Section 21 Compaction 7-28-55
Modifying Section 48 Right of Way and Station Markers 6-10-60
Modifying Section 49 Standard Federal Aid Project Markers 4-29-60
For Sequence of Work
Relating to Materials

Special Provisions and Specifications for this Project are listed above. See contract assembly for other Special Provisions and Specifications to be used in separate appendix to the Standard Specifications for Road and Bridge Construction, Edition of 1954.

SPECIFICATIONS

For Pay Limitation for Sub-base used as Plating 3-10-60
For Pulverizing and Processing Existing Bituminous Surfacing 7-15-60
For Galvanized Standard Pipe 7-15-60
For Installation of Water System

000003

ESTIMATED STRUCTURE QUANTITIES

FED. RD. DIV. NO.	STATE	NMP S-1529(4)	FINAL VOLUME	SHEET NO.	TOTAL SHEETS
3	NEW YORK		1961	2d	84

STATION	STRUCTURE	SKEW	SIZE	SIZE	Excavation: Unclassified — Ditch Total Cu. Yd.	Ditch Cu. Yd.	Total Cu. Yd.	Excavation for Pipe Culvert Cu. Yd.	Mechanical Tamping Each	Scarified Pavement Removed Sq. Yd.	Class "F" Concrete Pavement Cu. Yd.	Reinforcement for Concrete Pavement Pounds	Culvert Pipe 24" Diameter Lin. Ft.	30" Diameter Lin. Ft.	36" Diameter Lin. Ft.	42" Diameter Lin. Ft.	48" Diameter Lin. Ft.	60" Diameter Lin. Ft.	72" Diameter Lin. Ft.	84" Diameter Lin. Ft.	108" Diameter Lin. Ft.	29"x18" CMP Arch Lin. Ft.	43"x27" CMP Arch Lin. Ft.	50"x31" CMP Arch Lin. Ft.	58"x36" CMP Arch Lin. Ft.	73"x42" CMP Arch Lin. Ft.	Class "F" Concrete Pipe Diameter Lin. Ft.	Pipe Culvert Reinforcement Pounds	Pipe Culvert Cu. Yd.	Concrete Sidewalk Sq. Yd.	Concrete Curb Lin. Ft.	Concrete Gutter Lin. Ft.	Concrete Median Strip Lin. Ft.	Concrete Slope Protection Lin. Ft.
270+63.35	Repaint "Project" Marker																																	
281+18	Build Single Pipe Culvert 24" Dia. x 64' (Normal)		25'x10'x5.5'	100'x10'x5.5'	338		36	3					64																					
285+00	Build Single Pipe Culvert 42" Dia. x 102'	15° LH	50'x10'x2.0	100'x10'x4.5'	184		100	8								102																		
292+00	Build Single C.M.P. Arch Culvert 29" x 18" x 28' (To Left)							2													42													
297+00	Build Single Pipe Culvert 48" Dia. x 72' (Normal)			25'x15'x3.5'	9		20	6								72																		
301+90	Build Single Perforated Corr. Sele. Metal Pipe Culv. 8" Dia. x 185'																																	184
302+00	Build Double C.M.P. Arch Culvert 58" x 36" x 36' (Normal)		100'x15'x6.0'		537		23	8																172										
307+11	Build Single Pipe Culvert 24" Dia. x 70'	30° LH					7	3						70																				
303+00	Build Single C.M.P. Arch Culvert 29" x 18" x 28' (To Left)							2													42													
309+50	Build Valve Box and Water System																														1			
313+00	Build Single Pipe Culvert 30" Dia. x 72' (Normal)		35'x10'x2.0'		109		25	6						72																				
320+00	Build Single Pipe Culvert 24" Dia. x 72' (Normal)			200'x10'x2.0'	104		13	3						72																				
324+00	Build Single Pipe Culvert 24" Dia. x 54' (Normal)			15'x10'x1.5'	8		9	2					54																					
329+00	Build Triple C.M.P. Arch Culvert 58" x 36" x 66' (Normal)		57'x15'x2.0'	100'x20'x2'	161		52	14																192										
321+60	Build Single Pipe Culvert 60" Dia. x 76' (Normal)		25'x10'x2.0'	50'x10'x2.5	749		150	9									76																	
323+00	Build Single Pipe Culvert 36" Dia. x 66' (Normal)		25'x10'x6.0'		211		36	6																										
330+55	Build Single Pipe CMP Arch Culvert 29" x 18" x 28' (To Left)																				42													
346+35	Build Single Pipe Culvert 24" Dia. x 72' (Normal)		25'x10'x12.0'		1959		2	3					80																					
348+64	Build Double C.M.P. Culvert 72" Dia. x 62.8' Bevel	15° LH	20'x20'x6.5'		795		230	22										122											106.67	396				
~~356+00~~	~~Build Single Pipe Culvert 36" Dia. x 66' (Normal)~~		~~15'x10'x2.0'~~																															
355+15	Build Single Pipe Culvert 24" Dia. x 78' (Normal)						53	13					78																					
357+25	Build Double Pipe Culvert 36" Dia. x 66'	15° LH		40'x10'x1.0'	22																													
359+50	Build Single Pipe Culvert 21" Dia. x 68'	15° LH	100'x10'x1.0	100'x10'x2.0'	1045		1062	18																										
360+50	Build Single Pipe Culvert 24" Dia. x 72' (Normal)			100'x10'x2.0'	69		104	7																										
365+76	Build Single Pipe Culvert 48" Dia. x 76'	30° LH	50'x10'x1.5'		73		30	7								76																		
372+30	Build Single Pipe Culvert 54" Dia. x 72'	20° LH	50'x10'x1.0'	50'x10'x1.0'	62		27	7																										
371+65	Build Single C.M.P. Arch Culvert 58" x 36" x 80'	45° LH	100'x25'x5.0'	200'x25'x5.5'	1673		350	19																276							1			
366+75.6	Build Valve Box and Water System																							160										
374+00	Build Single Pipe Culvert 30" Dia. x 62' (Normal)							1																										
208+00	Build Single Pipe Culvert 24" Dia. x 56' (Normal)		100'x10'x5.0'		125		30	3					56																					
210+97	Build Single C.M.P. Arch Culvert 58" x 36" x 62' (Normal)		100'x10'x3.5'	100'x10'x2.5'	179		53	3																62										
216+30	Build Double C.M.P. Arch Culvert 50" x 31" x 58' (Normal)		100'x15'x2.0'	100'x15'x2.0'	270		80	6									106																	
218+00	Build Single Pipe Culvert 60" Dia. x 108'	45° LH						11																										
228+05.5	Build Single Pipe Culvert 24" Dia. x 102'	30° RH						4					48																					
235+25	Build Single C.M.P. Arch Culvert 50" x 31" x 150' (Flume)	66° RH						6		444	130												150											
239+50	Build Single Pipe Culvert 36" Dia. x 60' (Normal)		20'x10'x2.5'				5	2							60																			
245+00	Build Single Pipe Culvert 24" Dia. x 78' (Normal)							3					78																					
247+50	Build Triple C.M.P. Arch Culvert 58" x 36" x 66' (Normal)		100'x25'x8.0'	50'x25'x5.0'	693		230	11																198										
~~250+50~~	~~Build Single C.M.P. Arch Culvert 29" x 18" x 28' (To Left)~~																																	
253+85	Build Single C.M.P. Culvert 84" Dia. x 84' Bevel (Normal)							11												84									76.58	289				
259+50	Build Single Structural Plate Pipe Culvert 108" Dia. x 91'		800'x20'x22.0'	400'x20'x20.0'	29769		518	13.0												94									13.78	220				
262+83.5	Build Single C.M.P. Culvert 84" Dia. x 88' Bevel (Normal)		500'x15'x3.5'	400'x15'x3.0	050		240	11											58	58									76.50	289				
268+00	Build Single C.M.P. Culvert 84" Dia. x 100' Bevel	45° LH	500'x20'x12.0'	500'x20'x10.0'	1111		435	13											100										108.24	203				
278+50	Build Single C.M.P. Culvert 72" Dia. x 143'	45° LH	500'x15'x11.0'	500'x15'x4.0'	6280		315	11										108											85.58	323				
278+30	Build Single Pipe Culvert 48" Dia. x 93'	30° RH	300'x10'x5.0'	200'x10'x4.0'	823		97	8								98																		
292+00	Build Single Pipe Culvert 54" Dia. x 80'	30° LH	100'x10'x4.0'	150'x10'x5.5'	454		156	9							53																			
~~293+03~~	~~Build Single Pipe Culvert 24" Dia. x 56' (To Right)~~							~~2~~					~~56~~																					
~~294+15~~								2																										
~~295+50~~	Build Single Pipe Culvert 24" Dia. x 66' (To Left)							2					66																					
297+23	Build Single Pipe Culvert 60" Dia. x 80' (Normal)		25'x10'x1.5'	40'x10'x2.5'	41		17	3									80																	

For Details [illegible] Final Estimate of Project No. 11733-L

N.Y. No. S-1529(4) S.H.F.A. No.

ESTIMATED STRUCTURE QUANTITIES

Div. No.	State	Fed. Aid Project No.	Fiscal Year	Sheet No.	Total Sheets
9		S-1529 (4)	1961	2e	84

Station	Structure	Skew	Size	Size	Excavation Unclassified Cu.Yd.	Ditch Cu.Yd.	Total Cu.Yd.	Excavation for Pipe Culvert Hour	Mechanical Tamping Each	Standard Foundation Project Mat'ls Type I Cu.Yd.	Class "A" Concrete Cu.Yd.	Reinforcement for Concrete Structures Pound	24" Diameter Lin.Ft.	30" Diameter Lin.Ft.	36" Diameter Lin.Ft.	48" Diameter Lin.Ft.	54" Diameter Lin.Ft.	60" Diameter Lin.Ft.	72" Diameter Lin.Ft.	84" Diameter Lin.Ft.	108" Diameter Lin.Ft.	29"x18" CMP Arch Lin.Ft.	43"x27" CMP Arch Lin.Ft.	50"x31" CMP Arch Lin.Ft.	58"x36" CMP Arch Lin.Ft.	71"x44" CMP Arch Lin.Ft.	Class "A" Concrete for Culverts Pound	Wire Fabric Reinforcement Sq.Ft.	Pound	Valve Box and Riser Setting Each	Cutting Round Or Oval Hole In Pipe Each	Reconstruct Or Build Headwall Cu.Yd.	Lin.Ft.
					153						20	498	74	754	88 / 88	88 / 88	55 / 55	85 / 85	43 / 43	55 / 55	88 / 88	82	18	30	29	83	86							
					Excavation Unclassified						Class "A" Concrete		Culvert Pipe									Culvert Arch	Culvert Pipe											
506+02.5	Build Double Pipe Culvert 54" Dia. x 68' (Normal)		50'x5'x3.5	100'x15'x2.5	164		150	16																										
509+00	Build Double Pipe Culvert 48" Dia. x 64' (Normal)		25'x10'x2.0	50'x10'x2.0	39		71	9									196																	
523+68	Build Single Structural Plate Pipe Culvert 108" Dia. x 81' Gage Sheet No. 512-110 (Normal)		50'x15'x2.0	50'x15'x12.5	672		148	15												82														
533+00	Build Quadruple C.M.P. Arch Culvert 50"x31"x 68' (Normal)			100'x30'x6.0'	467		595	16															556											
543+68	Build Double C.M.P. Culvert 72" Dia. x 68' Bevel (Normal)		100'x20'x10'	35'x20'x4.0'	922		590	19										132									1010	352						
551+31	Build Single Pipe Culvert 24" Dia. x 44' (Normal)		25'x10'x2.0		13		26	2																										
565+22 50	Build Triple Pipe Culvert 60" Dia. x 68' (Normal)		150'x30'x2.0	15'x30'x2.5	704		602	24												604														
~~577+75~~ ~~577+85~~	Build Single C.M.P. Arch Culvert 29"x18" x 28' (T.O. Left)							2													18 28													
577+75	Build Single C.M.P. Arch Culvert 29"x18"x 28' (T.O. Left)							2													28													
627+25	Build Single C.M.P. Arch Culvert 29"x18"x 22' (T.O. Left)																				22													
578+15	Build Cattleguard on Right 18' Roadway Serial XC-1																													1				
580+00	Build Double Pipe Culvert 60" Dia. 76' (Normal)		150'x5'x12.5		1216		57	19								152																		
584+91	Build Single Pipe Culvert 36" Dia. x 44' (Normal)		15'x10'x10'		110		40	2																										
591+99	Build Single Pipe Culvert 42" Dia. x 44' (Normal)		20'x10'x2.0		62		70	7																										
623+31	Build Single C.M.P. Arch Culvert 29"x18" x 22' (T.O. Left)																				22													
~~592+00~~	~~Build Cattleguard on Right 18' Roadway Serial XC-1~~																																	
597+51	Build Single C.M.P. Culvert 72" Dia. x 66' Bevel (Normal)			100'x10'x2.5	69		30	10								66											60.25	229					
604+99	Build Single Pipe Culvert 48" Dia. x 44' (Normal)		150'x10'x7.0		467		34						76 76																					
603+00	Build Single Pipe Culvert 60" Dia. x 68' (Normal)		50'x10'x2.0		26		52	6									30																	
616+00	Build Single Pipe Culvert 36" Dia. x 68' (Normal)		100'x10'x7.0		311		30	4									74																	
628+00	Build Single C.M.P. Arch Culvert 29"x18" x 70' (L)																				70													
629+80	Build Single C.M.P. Arch Culvert 29"x18" x 56' (L)																				56													
632+22	Build Triple C.M.P. Arch Culvert 72" x 44' x 78'	15° Rt.	50'x30'x1.0		30		67	18																	234									
635+61	Build Single Pipe Culvert 36" Dia. x 66' (Normal)		50'x10'x2.5	100'x10'x3.0	124		46	6												86														
~~640+00~~	~~Build Single Pipe Culvert 36" Dia. x 70' (Normal)~~		25'x10'x2.0	100'x10'x2.0	65		56	4												70														
641+65	~~Build Single C.M.P. Arch Culvert 29"x18" x 70' (T.O. Left)~~																																	
642+90																																		
~~643+00~~	~~Build Single C.M.P. Arch Culvert 43"x27"x 68' (Normal)~~		100'x10'x3.0	100'x10'x3.0	177		68	5														78												
651+33	Build Single C.M.P. Arch Culvert 43"x27"x 68' (Normal)		50'x10'x3.0		42		20	4														68												
659+39	Build Quintuple C.M.P. Arch Culvert 72"x44"x 78' (Normal)		250'x50'x5.0	250'x50'x5.0	2778		307	33																	560									
662+03	Build Single C.M.P. Arch Culvert 29"x18"x 60' (T.O. Left)							3													60													
663+60	Build Single C.M.P. Culvert 29"x18"x 20' (T.O. Left)																				20													
664+40	" " 1-29"x18" (T.O. Left)																				40													
~~664+00~~	~~Build Single Pipe Culvert 36" Dia. x 93' (Normal)~~																																	
669+00	Build Single Pipe Culvert 36" Dia. x 93' (Normal)	85° Lt.		100'x10'x2.0	53		72	2																										
675+96	Build Single Pipe Culvert 48" Dia. x 72' (Normal)			100'x10'x1.5	36		18	6																										
679+80	Build Double Pipe Culvert 48" Dia. x 72' (Normal)		25'x15'x2.0	50'x15'x1.0	34		24	12																										
~~684+00~~	~~Build Single C.M.P. Arch Culvert 29"x18" x 22' (T.O. Left)~~							2													22													
~~684+40~~																																		
689+25	Build Cattleguard 18' Roadway Serial XC-1 XC-2 Sec.																													1				
~~690+00~~	~~Build Single C.M.P. Arch Culvert 29"x18" x 68' (T.O. Left)~~							2																										
690+00	Build Single C.M.P. Arch Culvert 29"x18" x 68' (T.O. Left)							2													68													
693+55	Build Triple C.M.P. Arch Culvert 55"x36" x 76' (Normal)		25'x25'x2.0		61		55	12																132										
695+00	Build Project Vecker Type I Serial PN-1																																	216
697+00	Build Single pot cor. Bolt Plate Pipe Culvert 8'x5'x6'																																	216
699+00																																		
699+00																																		

* Pipe Culvert, Bevel with Concrete Flarwalls
** Arch Culvert with Concrete Box Transitions at each end to existing Wooden Flume
*** Structural Plate Pipe Culvert Bevel with Concrete Flarwalls, Gage No. 512-110

	Excavation Unclassified	Ditch	Total	Excavation for Pipe Culvert	Mechanical Tamping	Standard Foundation Project Mat'ls Type I	Class "A" Concrete	Reinforcement for Concrete Structures	24" Diameter	30" Diameter	36" Diameter	48" Diameter	54" Diameter	60" Diameter	72" Diameter	84" Diameter	108" Diameter	29"x18" CMP Arch	43"x27" CMP Arch	50"x31" CMP Arch	58"x36" CMP Arch	71"x44" CMP Arch	Class "A" Concrete for Culverts	Wire Fabric Reinforcement	Valve Box and Riser Setting	Cutting Round Or Oval Hole In Pipe	Reconstruct Or Build Headwall	Lin.Ft.
TOTALS	6171	2771	8942	1	2.66	330	996	182	672	312	540	240	550	916	341	377	2	2	1	1	1	1416

For Totals See Final Estimate & Note Sheet No. 1177-L

TON MILE HAUL SCHEDULE

6" COMPACTED BASE COURSE							4" COMPACTED BASE COURSE PLATING MATERIAL						
STATION TO STATION	LENGTH IN STAS.	AVERAGE WIDTH	TONS/STA.	TONS	TURNOUTS TONS	TOTAL TONS BASE COURSE	AVERAGE WIDTH	TONS/STA.	TONS	TOTAL TONS 6" BASE CSE. 4" BASE CSE. PLATING	MILES FR. PIT	PIT LOC.	TON MILES
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TOTALS	[illegible]					[illegible]				[illegible]			175739.95
USE	[illegible]									14200.00			175800.00

For Details See Notebook No. 11782-L

NON-PARTICIPATING

2" COMPACTED BASE COURSE													
0+40	[illegible]	24.2110	20.68	24.739940	537.77	35.56	568.99						1106.97
[illegible]	[illegible]	[illegible]	20.68	24.739940	143.50	74.48	222.98						665.94
[illegible]	[illegible]	[illegible]	20.68	24.739940	185.50	—	185.50						1953.00
West Third Street	[illegible]	[illegible]	20.68	24.739940	143.55	74.48	119.01						357.03
West Second Street	[illegible]	[illegible]	20.68	24.739940	143.50	74.48	135.09						540.36
West First Street	[illegible]	[illegible]	20.68	24.739940	143.50	74.48	135.09						540.36
East First Street	[illegible]	[illegible]	22.03	24.739940	143.50	74.48	135.09						540.36
West Fourth Street	1.4510	[illegible]											
East 2nd Street	3.1200	[illegible]											
TOTALS					1373.80	408.32	1302.15			1802.15			6297.62
USE		[illegible]								1825.00			6300.00

See Notebook No. 11782-L

Station	Description	Location	No.
[illegible]	[illegible]	[illegible]	[illegible]

End of Way Markers
Fol. next page

DIV. NO.	STATE	NMP	YEAR	NO.	SHEET NO.
9	NEW MEXICO	S-1529(4)	1961	29	84

See Final Estimate

ITEM No	DESCRIPTION	UNIT	ROADWAY PRELIM.	ROADWAY FINAL	NON-PART. CONST. PRELIM	NON-PART. CONST. FINAL	TOTAL PRELIM	TOTAL FINAL
10	Removal of Old Structures	Lump Sum	Lump Sum				Lump Sum	
11	Removal of Obstructions	Lump Sum	Lump Sum				Lump Sum	
12	Clearing and Grubbing	Lump Sum	Lump Sum				Lump Sum	
15a	Excavation - Unclassified	Cu Yd	319914	413,403			319914	413403
20a	Ordinary Borrow	Cu Yd	24400	34056			24400	34056
22	Watering	M Gal	10400	1720	92	30	10492	1750
23	Rolling - (Tamping Roller)	Hour	730	568			730	568
24	Rolling - (Pneumatic Tred)	Hour	640	487	21	29.5	661	516.5
25	Rolling - (Steel Tires)	Hour	90	74	5	8	95	82
27a	Fifty (50) Ton Roller Operation	Hour	900	556	10	0	910	556
28	Mechanical Tamping	Sq Yd	554	377			554	377
31	Stations Yard Overhaul	Sta Yd	242826	358214			242826	358214
32	Quarter Mile Yard Haul	Ton Mi	133952	245377			133952	245377
32A	Ton Mile Haul	Ton Mi	175100	174408	6300	6259	181100	180667
38b	Pipe Underdrains Perf. Corr. Metal Pipe - 8" Diam	Lin Ft	484	1464			484	1464
43g	Wire Enclosed Pipe Rip Rap	Cu Yd	263	252			263	252
43h	Wire Fabric For Pipe Rip Rap	Sq Yd	7286	7286			7286	7286
43j	Excavation For Pipe Rip Rap	Cu Yd	55	53			55	53
43k	Steel Stakes	Lin Ft	650	445			650	445
44b	Cattleguard - 12' Roadway	Each	1	1			1	1
44c	Cattleguard - 18' Roadway	Each	2	1			2	1
46a	Galvanized Barbed Wire Fence	Lin Ft	10045	17777			10045	17777
46c	Gates - Standard Type	Each	7	10			7	10
46d	Bracing	Each	52	71			52	71
47a	Galvanized Woven Wire Farm Fence	Lin Ft	552	447			552	447
48	Right of Way Markers	Each	200	194			200	194
49a	Standard Federal Aid Project Markers, Type I	Each	1	1			1	1
50	Treated Timber Warning Posts, Reflectorized (6' Overall)	Each	373	358			373	358
54	Base Course	Ton	64200	63872	1095	1133	65295	65105
63a	Bituminous Materials, Prime - Type MC-1	Gal	1580	1429.1	125	116.3	1705	1545.4
65	Bituminous Material (Tack Coat) Type 65-100	Gal	198	220	16	0	214	220
88A	Culvert Pipe - 36" Diam				50		50	
88j	Culvert Pipe - 48" Diam				52		52	
70d	Bituminous Materials (Plant Mix) Type 5-100	Gal	8071	6993.6	636	513.1	8707	7506.7
70g	Plant Mix Surface Course Type II	Ton	18015	17308	1420	1332	19435	19340
74a	Class "A" Concrete	Cu Yds	464	464			464	464
74g	Class "F" Concrete Pavement	Sq Yd	540	1080			540	1080
75a	Reinforcement for Concrete Structures	Lb	330	330			330	330
75b	Wire Fabric Reinforcement	Sq Yd	3177	3177			3177	3177
84	Grouted Rock Retards	Cu Yd	104	156			104	156
85l-85l	Culvert Pipe - 24" Diam	Lin Ft	984	996		56	984	1052
85q-85q	Culvert Pipe - 30" Diam	Lin Ft	138	182			138	182
85h-85h	Culvert Pipe - 36" Diam	Lin Ft	702	622		(+50)	702	672
85i-85i	Culvert Pipe - 42" Diam	Lin Ft	334	312			334	312
85j-85j	Culvert Pipe - 48" Diam	Lin Ft	530	540		(+2)	530	540
85k-85k	Culvert Pipe - 54" Diam	Lin Ft	316	316			316	316
85m-85m	Culvert Pipe - 60" Diam	Lin Ft	696	690			696	690
85n	Corr. Metal Culvert Pipe 72" Diam Bev.	Lin Ft	434	434			434	434
89d	Corrugated Metal Pipe Arch Culvert 29" Span, 18" Rise	Lin Ft	478	550			478	550
89f	Corrugated Metal Pipe Arch Culvert 43" Span, 27" Rise	Lin Ft	146	146			146	146
89g	Corrugated Metal Pipe Arch Culvert 50" Span, 31" Rise	Lin Ft	602	602			602	602
89h	Corrugated Metal Pipe Arch Culvert 55" Span, 36" Rise	Lin Ft	110	916			110	916
89j	Corrugated Metal Pipe Arch Culvert 72" Span, 49" Rise	Lin Ft	594	594			594	594
90g	Struct Plate Pipe 105" Diam. Gage 512-110	Lin Ft	178	178			178	178
100	Galvanized Pipe - 2" Diam	Lin Ft	170	170			170	170
103	Galvanized Standard Pipe - 4" Diam	Lin Ft	450	600			450	600
103a	Installation of Water System "A"	Lump Sum	Lump Sum				Lump Sum	
120a	Scarifying, Pulverizing & Processing existing Bituminous Surface	Mile			1.112	1.110	1.112	1.110
85p	Corr. Metal Culvert Pipe - 84" Diam Bev.	Lin Ft	272	272			272	272
103b	Installation of Water System "B"	Lump Sum	Lump Sum	Lump Sum			Lump Sum	Lump Sum
12d	Clearing & Grubbing	Acre		5				5
161c	4" Cast Iron Pipe	Lin Ft		50				50
91h	Replacing 18" Corr Metal Culv Pipe	Lin Ft		184				184
91c	Pipe Underdrains Perf Corr Metal Pipe - 6" Diam	Lin Ft		226				226
5th	Mixing, Placing & Finishing Bituminous Material	Sq Yd		14791				14791
11	MMBT Equipment Asphalt	Gal		3976				3976
200	Replace Telephone Line	Lin Ft		2300				2300

6.18 - 84C	Mix Type PC	Uc Ft			1
6.18 - 84C	Mix Type	Cy			1
6.20 - 106 AA	PT	Uc Ft			2
6.21 - 109 CM		Uc Ft			2
6.24 - 113	Steel Cover	Uc Ft			3
6.25 - 105		Uc Ft			1
6.31 - 135		Cy			1
6.35 - 135	Steel Cover	Uc Ft			2
6.35 - 135 B	PC	Uc Ft			2
6.36 - 140 B	PT	Uc Ft			2
6.39 - 154	PT	Uc Ft			2
6.42 - 158	PT	Uc Ft			2
6.48 - 168	CSP	Uc Ft			2
6.49 - 169	PC	Uc Ft			2
6.51 - 169	PT	Uc Ft	Total		1-99

See Final Notebooks 11183-L, 11184-L, and Final Estimates

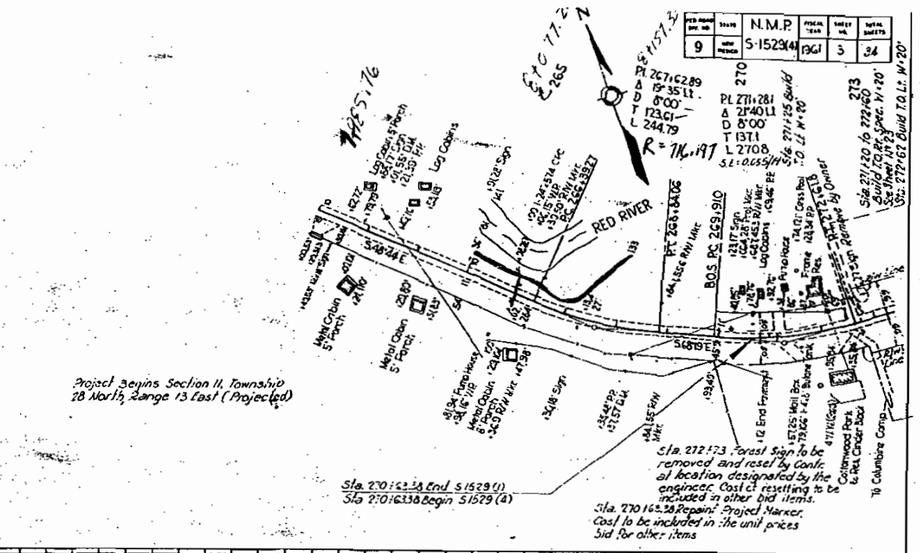
1. All fences within Right-of-way to be removed by contractor unless otherwise noted.
2. All turnouts whose "W" = 20' shall be oiled to Right-of-way Line.
3. All stations and dimensions used for topography are based on Survey ℄ which has been shown and so marked.

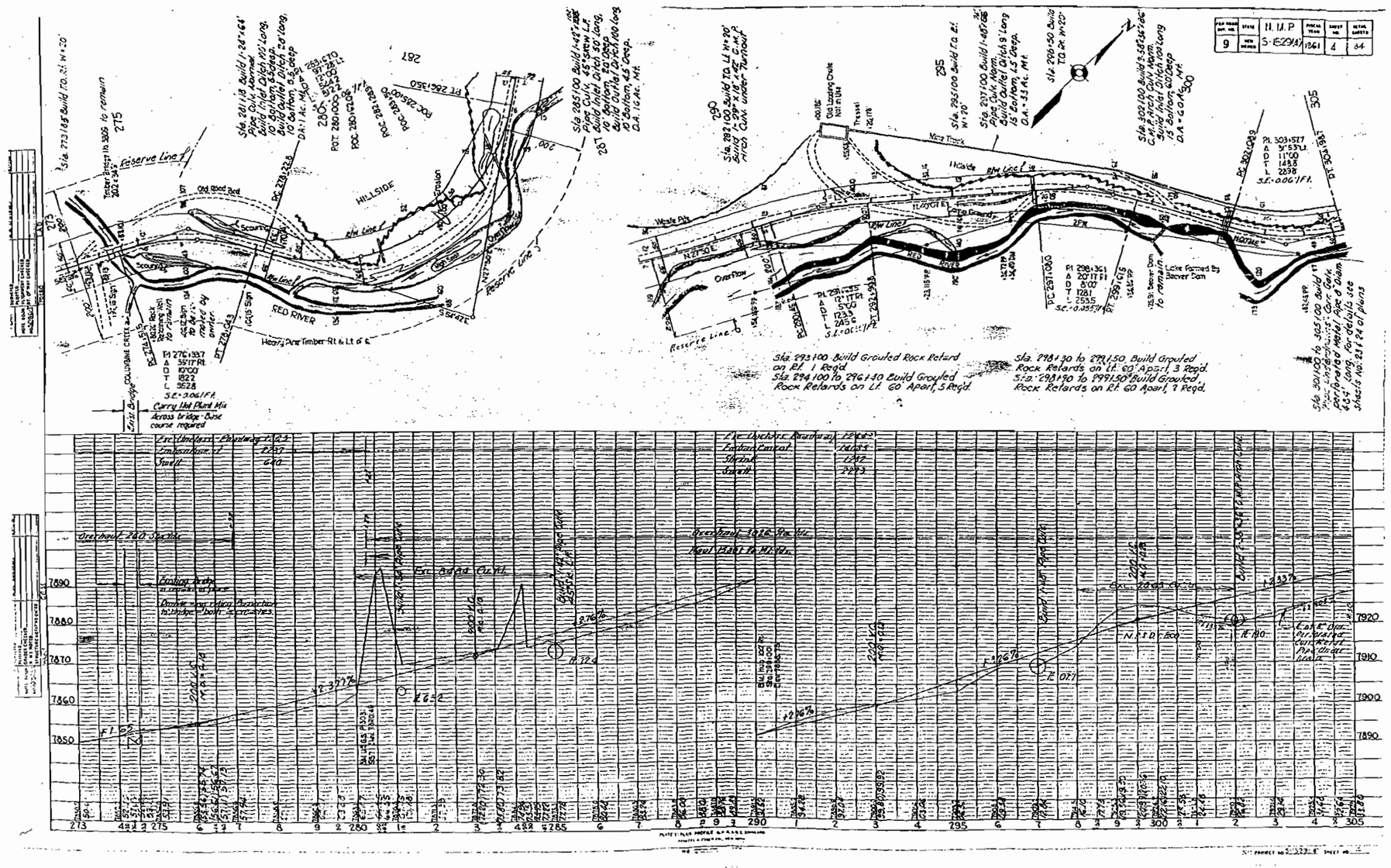
UTILITY OWNERS
Kit Carson Electric Co-op - Taos, New Mex.
Pioneer Water - Red River, New Mex.
Molybdenum Corp. of America - Red River, New Mex.
L.S. Lewis - Red River, New Mexico
T.V. Association of Red River
Mt. States Tel. and Tel.

RIGHT OF WAY WIDTHS

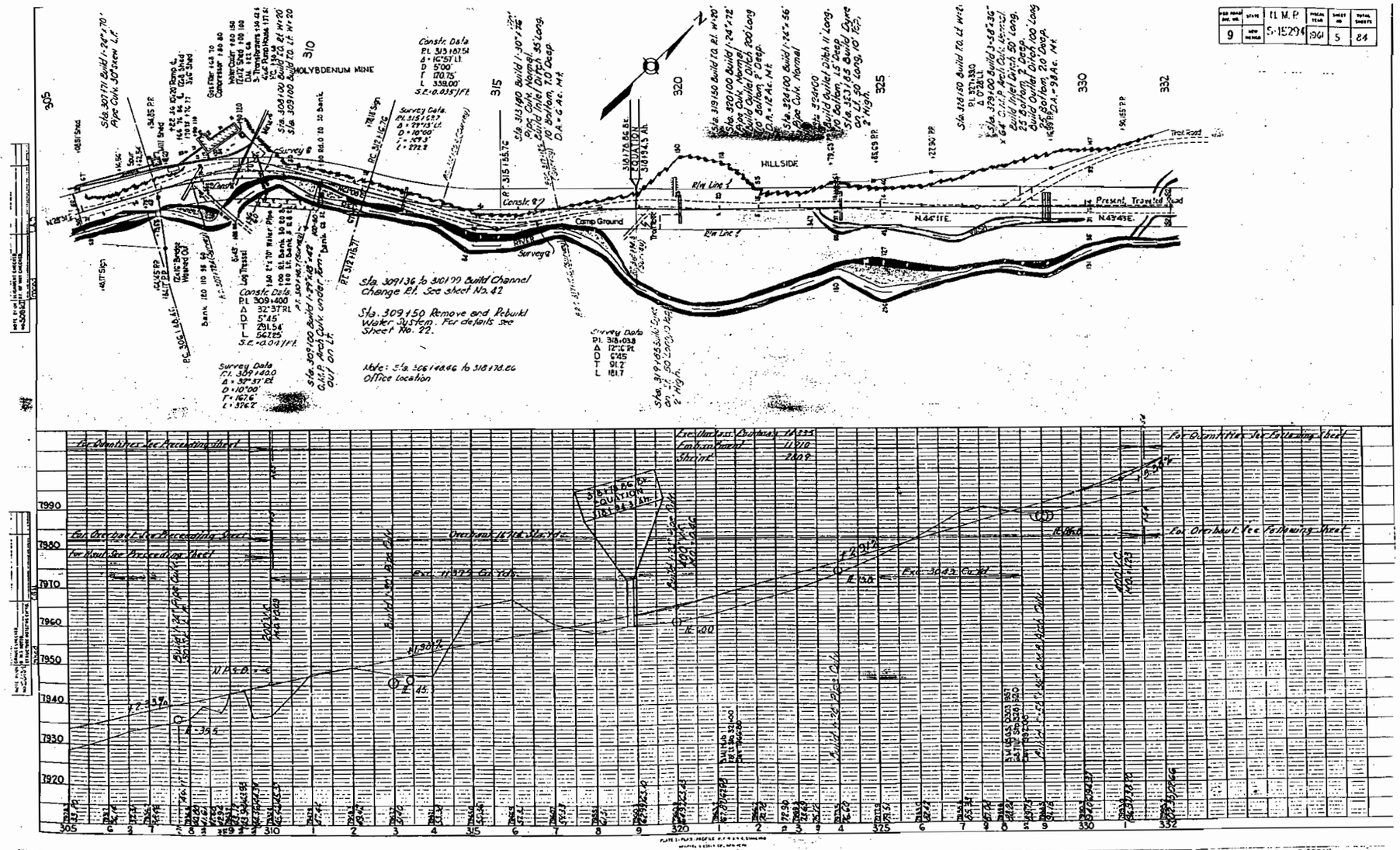
STATION	TO	STATION	LOCATION	WIDTH
270+63.38		272+75.4	Lt.	50'
270+63.38		272+75.4	Rt.	50'
272+75.4		289+80	Rt.	66'
272+75.4		278+60	Lt.	66'
278+60		279+10	Lt.	66'-50'
279+10		~~283+60~~	Lt.	50'
~~283+60~~		~~285+46.7~~	Lt.	50' Variable
~~285+46.7~~		330+00	Lt.	50'
330+00		334+00	Lt.	120'
335+50		367+50	Rt.	50'
348+50		350+70	Lt.	50'
367+60		373+69.92	Rt.	66'
350+70		360+07.82	Lt.	66'
360+07.82		402+03.14	Lt.	~~50'~~ 40'
402+03.14		~~404+88.15~~	Lt.	~~50'~~ 20'
373+69.92		403+63.14	Rt.	40'

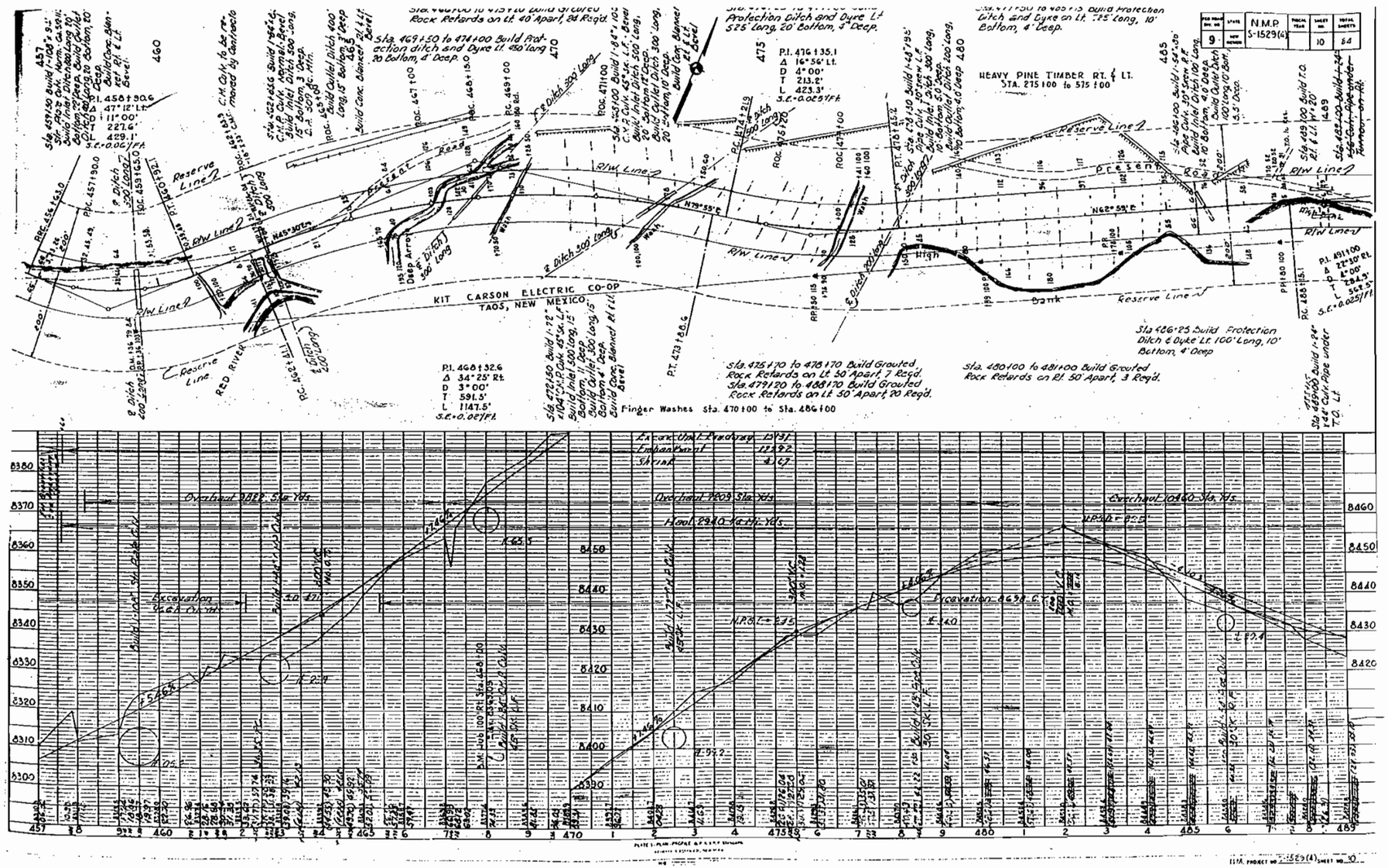
STATION	TO	STATION	LOCATION	WIDTH
273+63.38		275+[illegible]	Rt.	50'
273+63.38		276+[illegible]	Rt.	~~50'~~ 40'
276+72.95		279+00	Rt.	50'
276+56.54		279+00	Lt.	~~50'~~ 40'
276+80		279+00.6	Lt.	60'
279+00.6		279+40	Lt.	80'
279+50		613+79.1	Lt.	60'
500+00		617+25	Rt.	~~50'~~ 40'
617+25		619+50	Rt.	~~50'~~ 25'
619+50		620+80.75	Rt.	50'-40'
613+79.1		621+00	Lt.	70'-20'
620+80.75		621+[illegible]	Rt.	~~50'~~ 20'-40'
621+[illegible]		623+43.5	Lt.	20'
623+[illegible]		625+[illegible]	Lt.	33.5'
625+[illegible]		693+[illegible]	Lt.	40'
693+43.5		693+[illegible]	Lt.	66'
623+[illegible]		693+[illegible]	Rt.	~~50'~~ 40'
623+[illegible]		693+[illegible]	Rt.	50'
693+[illegible]		576+60	Rt.	~~50'~~ 25'
576+60		694+86	Rt.	~~50'~~ 40'

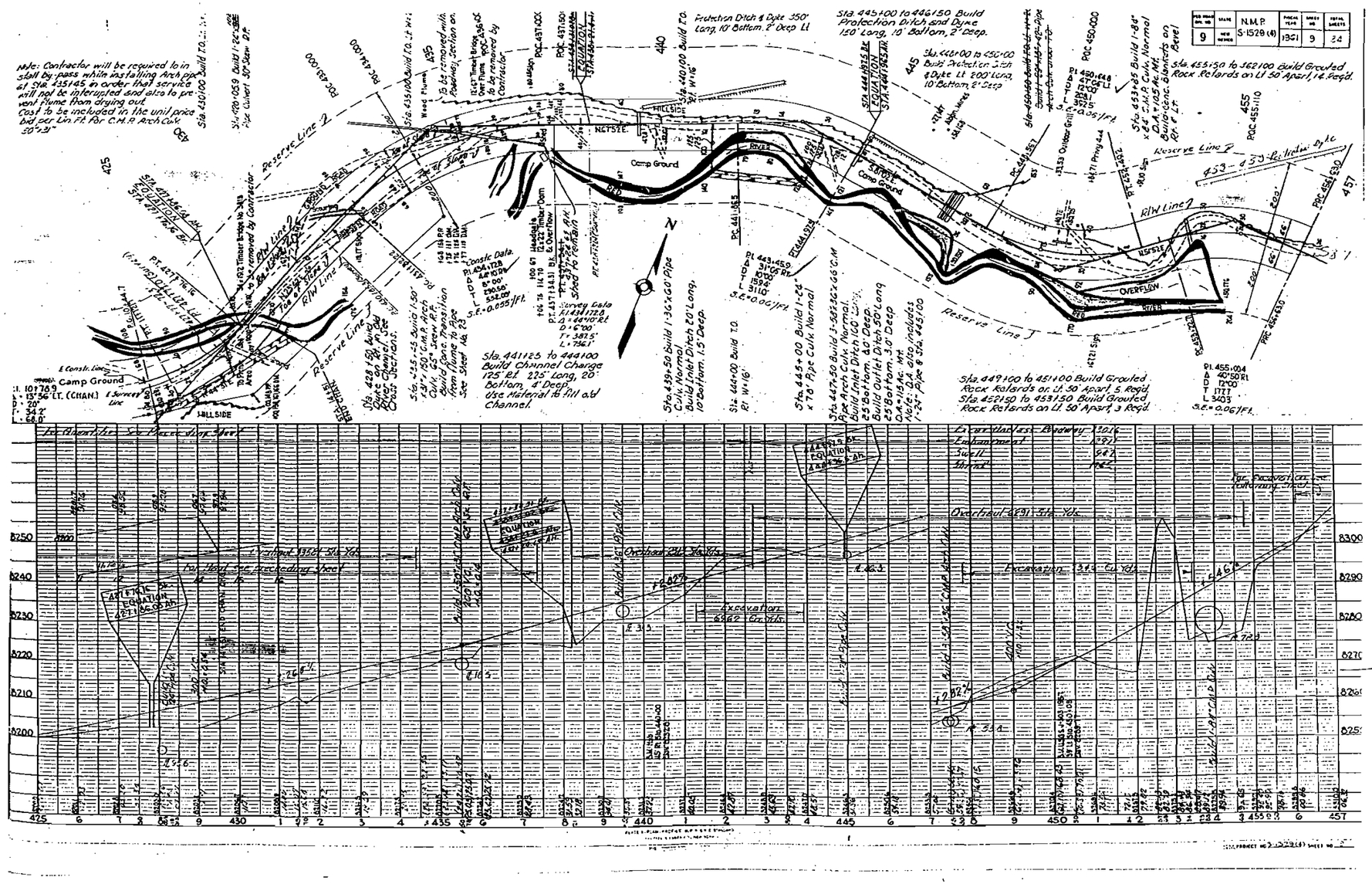


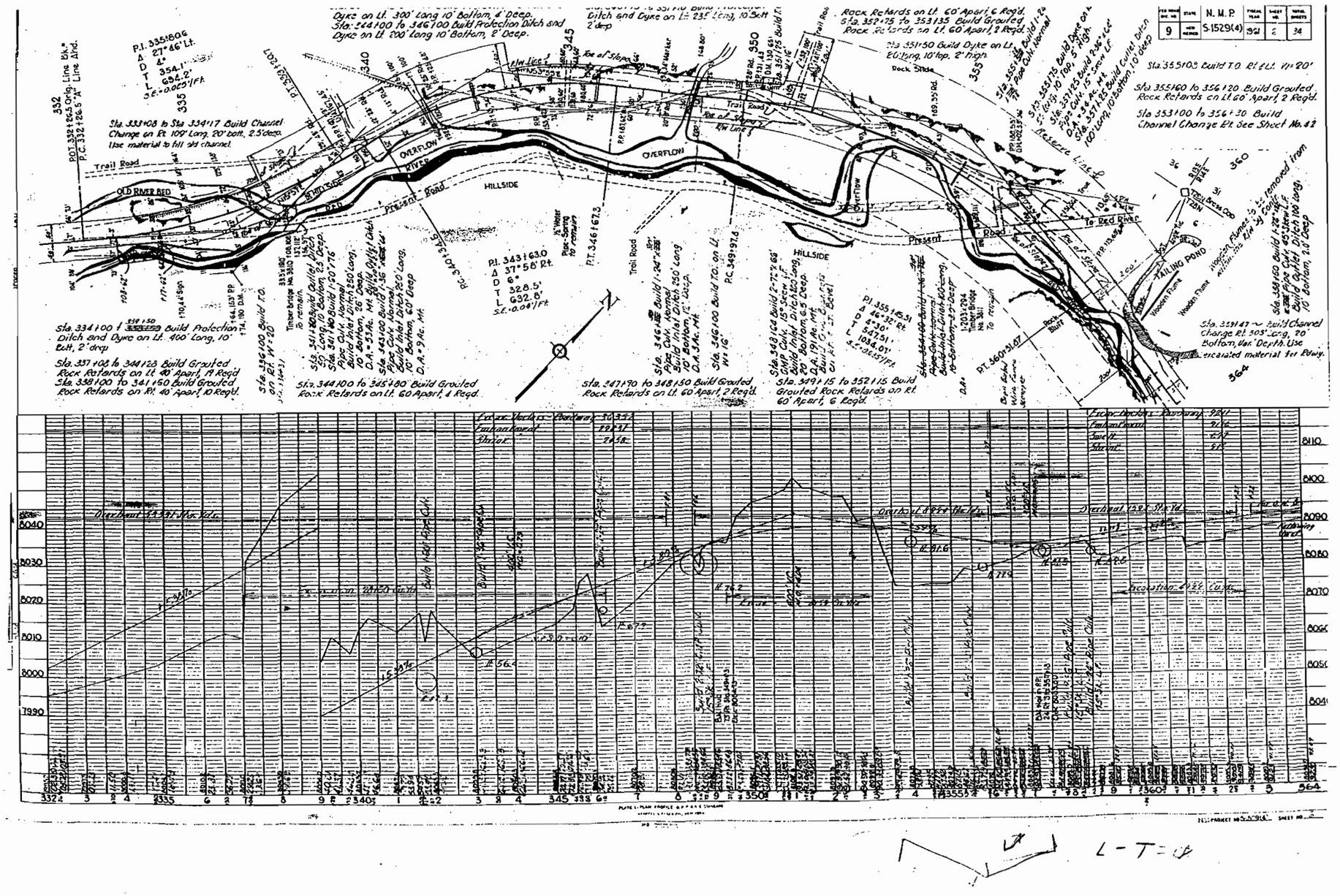

N. M. P.
S-E29(8)
1861
9
4
34
Reserve Line
Old Blood Bell
HILLSIDE
RED RIVER
COLUMBIA CREEK
Heavy Pine Timber Rt. & Lt. of ℄
Sta. 293+00 Build Grouted Rock Retard on Rt. 1 Reqd.
Sta. 294+00 to 296+40 Build Grouted Rock Retards on Lt. 60' Apart, 5 Reqd.
Sta. 298+30 to 299+50 Build Grouted Rock Retards on Lt. 60' Apart, 3 Reqd.
Sta. 298+90 to 299+50 Build Grouted Rock Retards on Rt. 60' Apart, 2 Reqd.
Sta. 301+00 to 305+00 Build 4" Perforated Metal Pipe & Drain 4.5' long, for details see Sheets No. 23 & 24 of plans
Haul Road To Mt. Hy.
Haul Road To Mt. Hy.
Existing Bridge in service in place
Drive new deck, transition to bridge - bolt stringers
Carry Hot Plant Mix Across bridge - base course required
Sta. 273+18.5 Build T.O. at W=20'
Sta. 281+18 Build T.O. at W=64'
Sta. 285+00 Build T.O. at W=20'
Sta. 289+50 Build T.O. at W=20'
Sta. 292+00 Build T.O. at W=20'
Sta. 295+00 Build T.O. at W=20'
Sta. 297+00 Build T.O. at W=20'
Sta. 302+00 Build T.O. at W=20'
Sta. 303+00 Build T.O. at W=20'
Sta. 305+00 Build T.O. at W=20'
Sta. 273 to 275 Build Grouted Rock Retards on Rt. 60' Apart, 3 Reqd.
Sta. 279+00 to 280+00 Build Grouted Rock Retards on Rt. 60' Apart, 2 Reqd.
Sta. 283+00 to 285+00 Build Grouted Rock Retards on Rt. 60' Apart, 3 Reqd.
Sta. 287+00 to 289+00 Build Grouted Rock Retards on Rt. 60' Apart, 3 Reqd.
Sta. 290+00 to 292+00 Build Grouted Rock Retards on Rt. 60' Apart, 3 Reqd.
Sta. 295+00 to 297+00 Build Grouted Rock Retards on Rt. 60' Apart, 3 Reqd.
Sta. 300+00 to 302+00 Build Grouted Rock Retards on Rt. 60' Apart, 3 Reqd.
Sta. 303+00 to 305+00 Build Grouted Rock Retards on Rt. 60' Apart, 3 Reqd.
7890
7880
7870
7860
7850
7920
7910
7900
7890
273
275
280
285
290
295
300
305

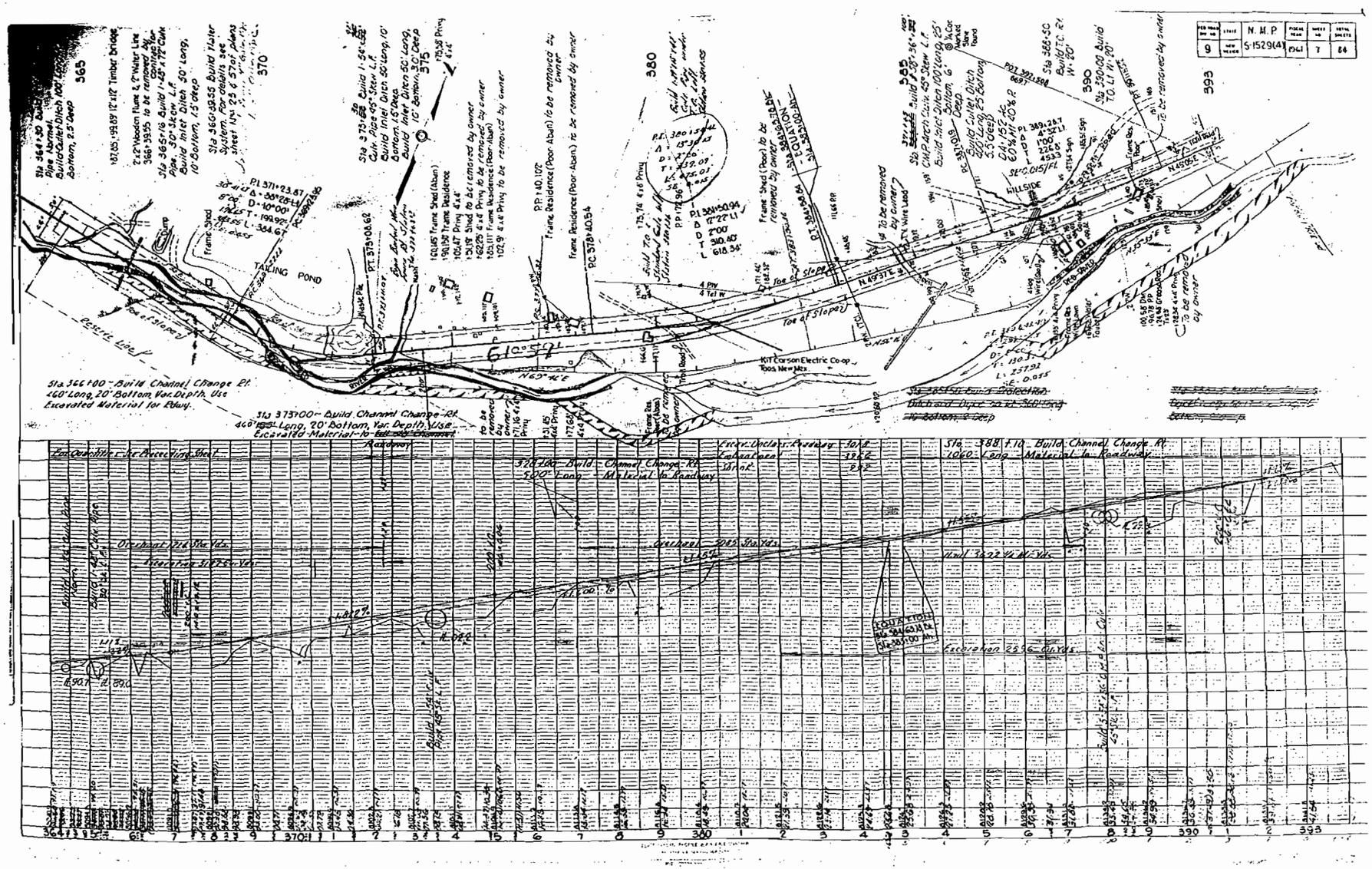
FED. ROAD DIV. NO.	STATE	ILL. M.P.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	NEW MEXICO	S-15296	1961	5	84

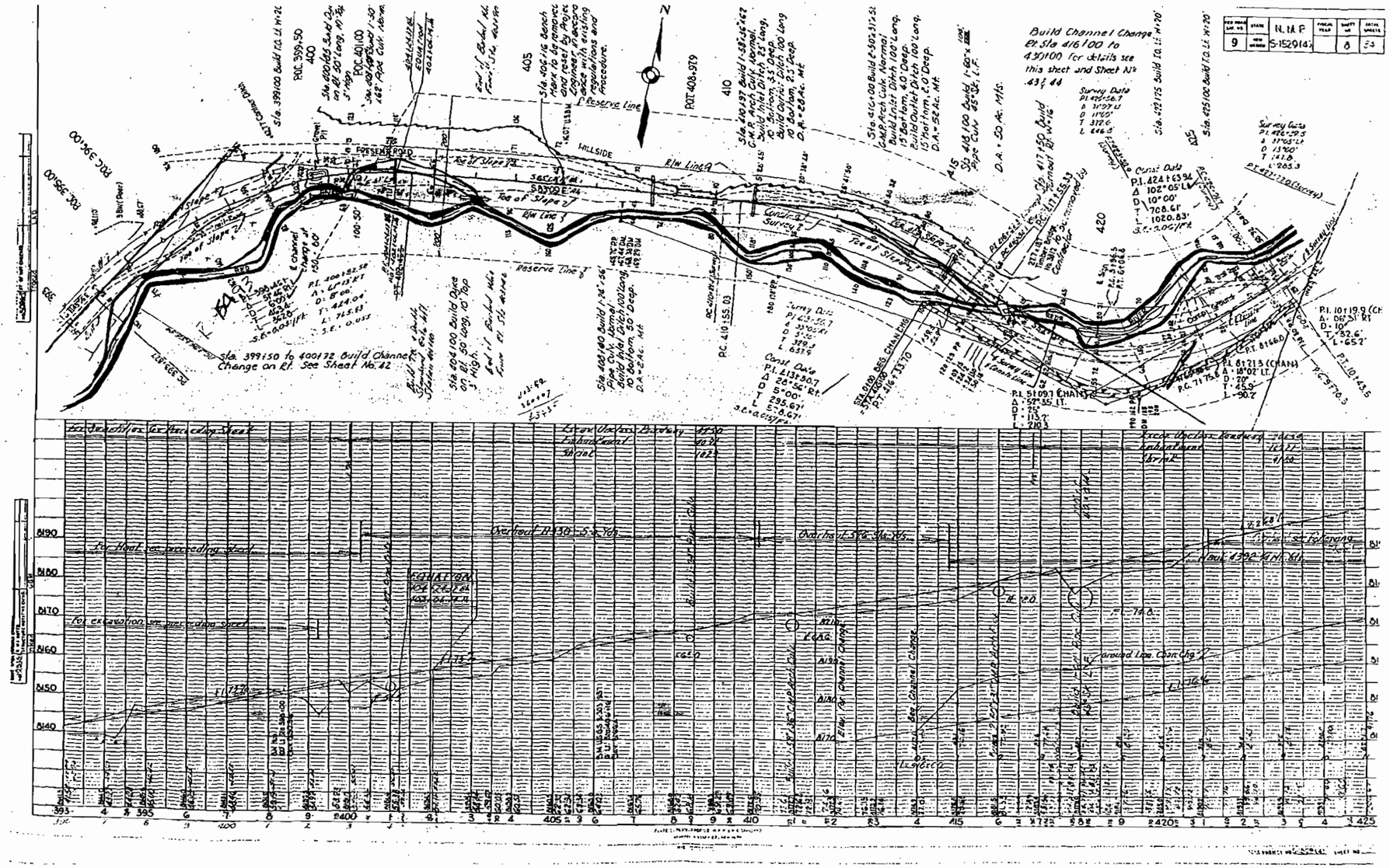


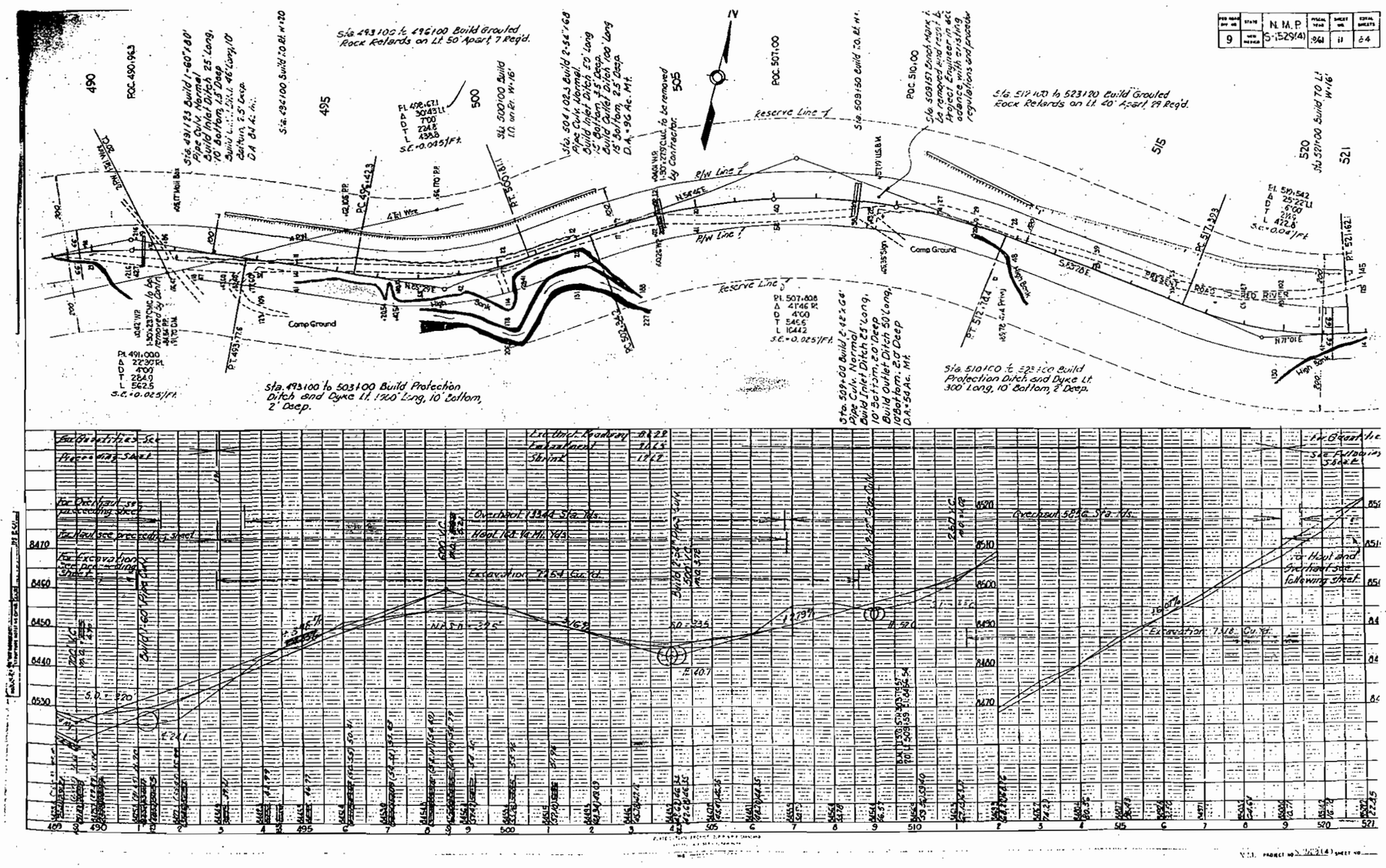

N.M.P.
S-1529(4)
KIT CARSON ELECTRIC CO-OP
TAOS, NEW MEXICO
HEAVY PINE TIMBER RT. & LT.
STA. 275+00 to 575+00
RED RIVER
Reserve Line
R/W Line
Finger Washes Sta. 470+00 to Sta. 486+00
Sta. 475+70 to 478+70 Build Grouted Rock Retards on Lt. 50' Apart, 7 Req'd.
Sta. 479+20 to 488+70 Build Grouted Rock Retards on Lt. 50' Apart, 20 Req'd.
Sta. 480+00 to 481+00 Build Grouted Rock Retards on Rt. 50' Apart, 3 Req'd.
Sta. 486+25 Build Protection Ditch & Dyke Lt. 100' Long, 10' Bottom, 4' Deep
Overhaul 9209 Sta. Yds.
Overhaul 10460 Sta. Yds.
Excavation 4638 C.Y.


N.M.P.
S-1529 (4)
1961
Note: Contractor will be required to install by-pass while installing Arch pipe at Sta. 435+45 in order that service will not be interrupted and also to prevent flume from drying out. Cost to be included in the unit price bid per Lin. Ft. for C.M.P. Arch Culv. 50"x31"
Sta. 430+00 Build T.O. Lt. W.16'
Sta. 435+00 Build T.O. Lt. W.16'
Sta. 440+00 Build T.O. Rt. W.16'
Protection Ditch & Dike 350' Long, 10' Bottom, 2' Deep Lt
Sta. 445+00 to 446+50 Build Protection Ditch and Dyke 150' Long, 10' Bottom, 2' Deep.
Sta. 446+00 to 450+00 Build Protection Ditch & Dyke Lt 200' Long, 10' Bottom, 2' Deep
Sta. 455+50 to 462+00 Build Grouted Rock Retards on Lt 50' Apart, 14 Reqd.
Sta. 453+85 Build 1-84" x 84" C.M.P. Culv. Normal Culv. + 105 Rt. Mt. Build Conc. Aprons on Rt. & Lt.
Sta. 441+25 to 444+00 Build Channel Change 125' Rt. 225' Long, 20' Bottom, 4' Deep. Use Material to fill old Channel.
Sta. 439+50 Build 1-36"x60' Pipe Culv. Normal. Build Inlet Ditch 60' Long, 10' Bottom, 1.5' Deep.
Sta. 445+00 Build 1-24" x 76' Pipe Culv. Normal
Sta. 447+50 Build 1-38"x66" C.M. Pipe Arch Culv. Normal. Build Inlet Ditch 160' Long, 25' Bottom, 4.0' Deep. Build Outlet Ditch 50' Long, 25' Bottom, 3.0' Deep. C.M.P. = 1.5 Ac. Mt. Note: D.X. also includes 1-24" Pipe @ Sta. 445+00
Sta. 449+00 to 451+00 Build Grouted Rock Retards on Lt. 50' Apart 5 Reqd.
Sta. 452+50 to 453+50 Build Grouted Rock Retards on Lt. 50' Apart, 3 Reqd.
Camp Ground
HILLSIDE
RIVER
OVERFLOW
Reserve Line 2
R/W Line 7
Reserve Line 7
453 - 455 Relocation Dyke
Excavation 6962 Cu. Yds.
Overhaul (691) Sta. Yds.
Excavation 3314 Cu. Yds.
Overhaul (1350) Sta. Yds.
Earthwork Equation
For Profile See Preceding Sheet
For Profile See Following Sheet
For Excavation See Following Sheet

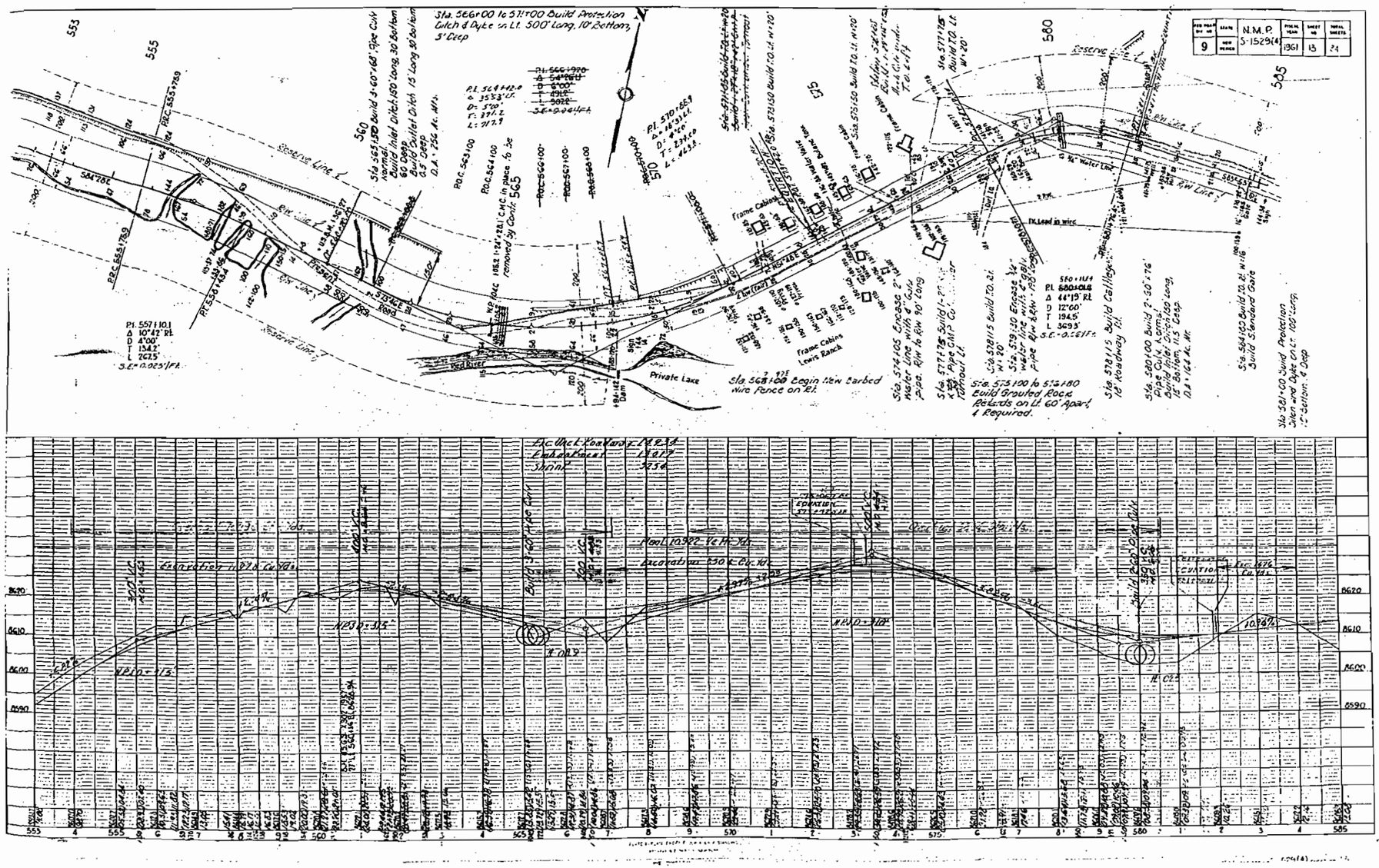

N. M. P.
S-1529(4)
Dyke on Lt. 300' Long 10' Bottom, 4' Deep.
Sta. 344+00 to 346+00 Build Protection Ditch and Dyke on Lt. 200' Long 10' Bottom, 2' Deep.
Rock Retards on Lt. 60' Apart, 6 Reqd.
Sta. 352+75 to 353+35 Build Grouted Rock Retards on Lt. 60' Apart, 2 Reqd.
Sta. 351+50 Build Dyke on Lt. 60' Long, 10' Top, 2' High.
Sta. 355+03 Build T.D. Rt. S.L. W=20'
Sta. 355+60 to 356+20 Build Grouted Rock Retards on Lt. 60' Apart, 2 Reqd.
Sta. 353+00 to 356+30 Build Channel Change Rt. See Sheet No. 42
Sta. 333+08 to Sta. 334+17 Build Channel Change on Rt. 109' Long, 20' bott., 2.5' deep. Use material to fill old channel.
Trail Road
OLD RIVER BED
OVERFLOW
RIVER
HILLSIDE
Present Road
Reserve Line
To Red River
TAILING POND
Wooden Flume
Rock Bluff
Trail Brook Cod
Sta. 334+00 to 344+25 Build Grouted Rock Retards on Lt. 40' Apart, 14 Reqd.
Sta. 338+00 to 341+60 Build Grouted Rock Retards on Rt. 40' Apart, 10 Reqd.
Sta. 344+00 to 345+80 Build Grouted Rock Retards on Lt. 60' Apart, 4 Reqd.
Sta. 347+90 to 348+50 Build Grouted Rock Retards on Lt. 60' Apart, 2 Reqd.
Sta. 349+15 to 352+15 Build Grouted Rock Retards on Rt. 60' Apart, 6 Reqd.
Sta. 359+47 ~ Build Channel Change Rt. 505' Long, 20' Bottom, Var. Depth. Use excavated material for Rdwy.
Sta. 334+00 to 337+50 Build Protection Ditch and Dyke on Lt. 400' Long, 10' Bott., 2' deep
Sta. 357+08 to 344+25 Build Grouted Rock Retards on Lt. 40' Apart, 14 Reqd.
Sta. 338+00 to 341+60 Build Grouted Rock Retards on Rt. 40' Apart, 10 Reqd.
L - T = ∅

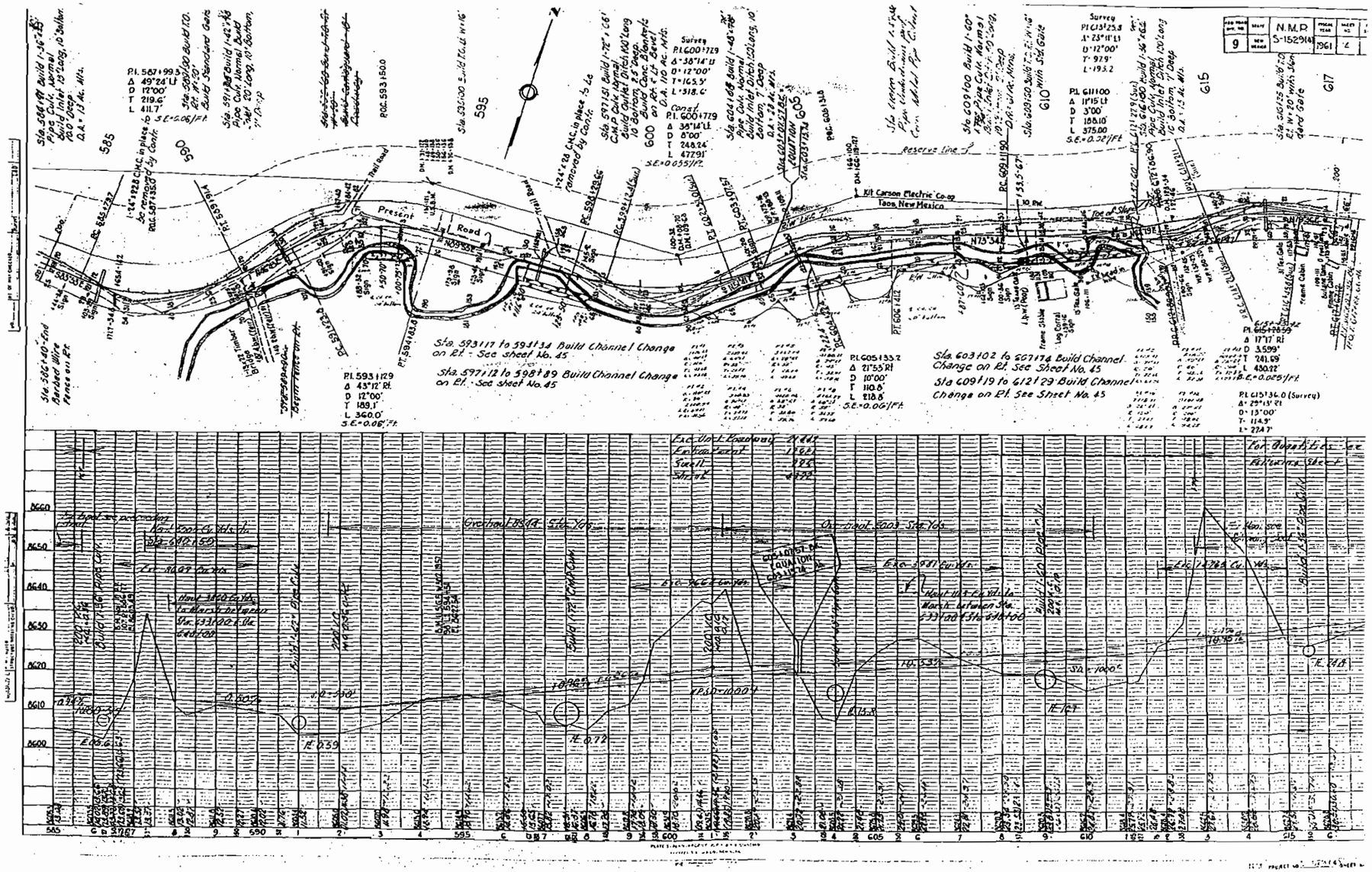

N. M. P.
S-1529(4)
TAILING POND
Kit Carson Electric Co-op
Toos New Mex
Sta 366+00 ~ Build Channel Change Rt.
460' Long, 20' Bottom, Var. Depth, Use
Excavated Material for Rdwy.
Sta 373+00 ~ Build Channel Change Rt.
460' Long, 20' Bottom, Var. Depth, Use
Excavated Material to Roadway
Sta 388+10 Build Channel Change Rt.
1060' Long Material to Roadway
Excavation 2556 Cu. Yds.
HILLSIDE
365
370
375
380
385
390
393


N.H.P.
S-152914
Build Channel Change
Pt Sta 416+00 to
430+00 for details see
this sheet and Sheet No
43 & 44
Sta. 399+50 to 400+72 Build Channel
Change on Rt. See Sheet No. 42
HILLSIDE
Reserve Line
Toe of Slope
Rim Line
Centerline Survey
Sta. 399+50
Sta. 400+65
Sta. 401+00
Sta. 406+16 Bench Mark to be removed and reset by Project Engineer in accordance with existing practices and procedures.
Sta. 410+00 Build 2-30"x31'x61' C.M.P. Arch Culv. Normal. Build Inlet Ditch 25' Long, 10' Bottom, 3.5' Deep. Build Outlet Ditch 100' Long 10' Bottom, 2.5' Deep.
Sta. 410+00 Build 2-30"x31'x51' C.M.P. Arch Culv. Normal. Build Inlet Ditch 100' Long, 15' Bottom, 4.0' Deep. Build Outlet Ditch 100' Long, 15' Bottom, 2.0' Deep.
Sta. 416+00 Build 1-60" x 100' Pipe Culv. 45° Skew, L.F.
Sta. 432+75 Build 1-2-10'x8' Box Culv. Normal
Sta. 425+00 Build 1-2-10'x8' Box Culv. Normal
Sta. 400+82.58
P.I. 400+13 Rt.
Δ 8°00'
D 424.04'
T 715.63'
L 0.035
S.E.
Sta. 404+00 Build Pipe Culv. 40' to 50' Long, 10' Top 4' High.
Sta. 403+40 Build 1-24" x 56' Pipe Culv. Normal. Build Inlet Ditch 100' Long, 10' Bottom, 3.0' Deep. D.A. = 2 Ac. Mi.
P.C. 410+55.03
Survey Data
P.I. 413+50.7
Δ 39°00' Lt.
D 5°16'
T 329.3'
L 631.9'
Const. Data
P.I. 413+50.7
Δ 28°56' Rt.
D 5°00'
T 295.67'
L 5.8.67'
S.E. = 0.035'/ft.
Sta. 409+00 BEG. CHANGE
P.T. 416+33.70
Survey Data
P.I. 424+63.94
Δ 102°05' Lt.
D 10°00'
T 708.61'
L 1020.83'
S.E. = 0.035'/ft.
P.I. 51+09.7 (CHAIN)
Δ 52°55' Lt.
D 7°
T 113.7'
L 210.3'
P.I. 61+21.3 (CHAIN)
Δ 18°02' Lt.
D 7°0'
T 45.9'
L 90.2'
P.I. 10+19.9 (CH
Δ 102°51' Rt.
D 10°
T 52.6'
L 65.2'
P.T. 10+43.5
P.C. 9+70.3
Survey Data
P.I. 432+59.5
Δ 37°05' Lt.
D 13°00'
T 141.6'
L 283.3'
P.T. 432+72.0 (Survey)
Sta. 432+72 Build 1-2-10'x8' Box Culv. Normal
Sta. 425+00 Build 1-2-10'x8' Box Culv. Normal
Sta. 417+50 Build 1-60" x 100' Pipe Culv. 45° Skew, L.F.
D.A. = 50 Ac. Mi.
D.A. = 56 Ac. Mi.
Overhaul 11+30 - 5.2 Yds.
Overhaul 1+50 - 16.4 Yds.
Ground line Const. Chg.
Elev. Top Channel Change
Elev. Top Channel Change
Elev. Top Channel Change


N.M.P.
S-1529(4)
Sta. 493100 to 496100 Build Grouted Rock Retards on Lt. 50' Apart, 7 Req'd.
Sta. 512100 to 523120 Build Grouted Rock Retards on Lt. 40' Apart, 29 Req'd.
Sta. 493100 to 503100 Build Protection Ditch and Dyke Lt. 1000' Long, 10' Bottom, 2' Deep.
Sta. 510100 to 523100 Build Protection Ditch and Dyke Lt. 300' Long, 10' Bottom, 2' Deep.
Reserve Line
R/W Line
Camp Ground
RED RIVER
Overhaul 13944 Sta. Yds.
Haul 1824 Va. Yd. Yds.
Excavation 7254 Cu. Yd.
Overhaul 5816 Sta. Yds.
Excavation 7318 Cu. Yd.

N.M.P.
S-1529(4)
1961
12
24
Reserve Line
R/W Line
Present Road
Sta. 524+00 to 526+20 Build Protection Ditch and Dyke on Lt. 220' Long, 10' Bottom, 3' Deep.
Sta. 527+25 to 532+00 Build Protection Ditch and Dyke on Lt. 425 long, 10' Bottom, 3' Deep.
Sta. 534+00 to 536+00 Build Protection Ditch and Dyke on Lt. 200 Long, 10' Bottom 2' Deep.
Sta. 536+00 to 543+00 Build Protection Ditch and Dyke on Lt. 700' Long, 10' Bottom 2' Deep
Sta. 546+00 to 554+00 Build Grouted Rock Retards on Lt. 40' Apart 23 Regd.
Sta. 545+00 to 563+20 Build Protection Ditch and Dyke on Lt. 1820' Long, 10' Bottom, 3' Deep.
To Be Removed By Owners
Sta. 533+00 Build 4-50'x3' C.M.P. Arch Culv. Normal D.A.=149 Ac. Mt. Build Outlet Ditch 100' Lt. 30' Bottom, 6' Deep.
Sta. 543+618 Build 2-72"x6' C.M.P. Culvert Normal Build Inlet Ditch 100' Long, 20' Bottom, 110' Deep Build Outlet Ditch 55' Long 20' Bottom 4.0' Deep D.A.=195 Ac. Mt. Build Conc. Blanket PC 543.3 Lt. on Rt. 2' Lt. Bevel
Sta. 551+31 Build 1-24"x8' Pipe Culv. Normal Build Inlet Ditch 25' Long 10' Bottom, 2.0' Deep
Sta. 525+00 Build 108"x8' Struc. Plate Pipe Culv. Normal Build Conc. Blankets Rt. & Lt. Bevel Build Inlet Ditch 300' Long, 15' Bottom, 2.0' Deep. Build Outlet Ditch 30' Long, 15' Bottom, 12.5' Deep. D.A.=239 Ac. Mt.
PI. 527+18.8 Δ 12°15' Rt. D 2°00' T 307.5' L 612.5' S.E.=0.015/ft.
PI. 545+18.21 Δ 25°33' Rt. D 5°00' T 258.1' L 512.5' S.E.=0.035/ft.
PI. 552+45.8 Δ 15°16' Lt. D 2°00' T 382.2' L 663.3' S.E.=0.015/ft.
Overhaul 1129 Sta.-Yds.
Final Est. Yd. Hi. Yds.
N.P.S.D.=440
Excavation 3635
N.P.S.D.=585'
Overhaul 1715 Sta.-Yds.
Overhaul 705 Sta.-Yds.
Excavation 1129
Excavation 1715
Excavation 705
Build Grade Rock Ditch
Build Grade Rock Ditch
For Quantities See Following Sheet
For Excavation See Following Sheet
For Haul See Following Sheet
Sta. 300
Sta. 400
Sta. 500
Sta. 600
Sta. 700
Sta. 800
Sta. 900
Sta. 1000
Sta. 1100
Sta. 1200
Sta. 1300
Sta. 1400
Sta. 1500
Sta. 1600
Sta. 1700
Sta. 1800
Sta. 1900
Sta. 2000
Sta. 2100
Sta. 2200
Sta.


N.M.P.
S-1529(4)
1961
Reserve Line
R/W Line
Private Lake
Frame Cabins
Lewis Ranch
Sta. 566+00 to 571+00 Build Protection Ditch & Dyke on Lt. 500' Long, 10' Bottom, 5' Deep
Sta. 563+50 Build 3-60"x68' Pipe Culv. Install Inlet Ditch 150' Long, 30' Bottom Build Outlet Ditch 15' Long 50' Bottom 0.5' Deep
Sta. 568+00 Begin New Barbed Wire Fence on Rt.
Sta. 575+00 to 576+80 Build Grouted Rock Pedestals on Lt. 60' Apart, 4 Required.
Sta. 578+15 Build Cattleguard 18' Roadway Rt.
Sta. 581+00 Build Protection Dike and Dyke on Lt. 100' Long, 12' Bottom, 4' Deep
Sta. 584+00 Build Standard Gate
Sta. 580+00 Build 7-60"x76' Pipe Culv. Install Inlet Ditch 150' Long, 12' Bottom, 1.5' Deep
Sta. 574+05 Encase 2" Water Line with 4" Gate Pipe. R/W to R/W 90' Long
Sta. 569+50 Encase 3/4" Water Line with 4" Gate Pipe R/W to R/W - 195' Long
Sta. 577+75 Build 1-24" Pipe Culv. 60' Long, 18' Roadway Lt.
Sta. 578+15 Build T.O. 21' W=20'
Sta. 577+25 Build T.O. 21' W=20'
Sta. 573+50 Build T.O. 11' W=20'
Sta. 571+50 Build T.O. 11' W=20'
Sta. 563+50 Build T.O. 21' W=20'
Sta. 560+00 Build T.O. 21' W=20'
Sta. 563+50 Install Ditch 15' Long 50' Bottom 0.5' Deep
Sta. 566+00 Install Ditch 15' Long 50' Bottom 0.5' Deep
Sta. 568+00 Install Ditch 15' Long 50' Bottom 0.5' Deep
Sta. 570+00 Install Ditch 15' Long 50' Bottom 0.5' Deep
Sta. 572+00 Install Ditch 15' Long 50' Bottom 0.5' Deep
Sta.


N.M.P.
S-1529(4)
1961
Kit Carson Electric Co-op
Taos, New Mexico
Present Road
Reserve line
Sta. 593+17 to 594+34 Build Channel Change on Rt. See Sheet No. 45
Sta. 597+12 to 598+89 Build Channel Change on Rt. See Sheet No. 45
Sta. 603+02 to 607+74 Build Channel Change on Rt. See Sheet No. 45
Sta. 609+19 to 612+29 Build Channel Change on Rt. See Sheet No. 45
Sta. 586+40 End Barbed Wire Fence on Rt.
P.I. 587+99.3
Δ 49°24' Lt
D 12°00'
T 219.6'
L 411.7'
P.I. 593+129
Δ 43°12' Rt
D 12°00'
T 189.1'
L 360.0'
S.E.=0.06'/Ft.
P.I. 600+72.9
Δ 38°14' Lt
D 8°00'
T 248.24'
L 477.91'
S.E.=0.055'/Ft.
P.I. 605+33.2
Δ 21°55' Rt
D 10°00'
T 110.8'
L 218.8'
S.E.=0.06'/Ft.
P.I. 611+00
Δ 11°15' Lt
D 3°00'
T 188.10'
L 375.00
S.E.=0.32'/Ft.
P.I. 615+36.0 (Survey)
Δ 29°13' Rt
D 13°00'
T 114.9'
L 224.7'
Δ 17°17' Rt
D 3.599'
T 241.69'
L 480.22'
S.E.=0.025'/Ft.
585
590
595
600
605
610
615
617
8660
8650
8640
8630
8620
8610
8600

N.M.P.
S-1529(4)
1961
9
15
84
Townsite Corner No. 1
Abandoned Mill
Terrace Tower
Office
Cinder Block Swimming Pool
Frame Cabin
Garage
Jack Chambless Enterprises
Valley Lodge
Cafe
Thunderbird Court & Cafe
S.E.D. Motel, Cafe & Theatre
Sporting Goods
MALLET CREEK
PRESIDENT ROAD
Toe of Slope
R/W Line
Sta 617+00 to 620+20 Build Grouted Rock Relards on Lt. 40' Apart, 9 Reqd.
Sta 621+50 to 626+50 Build Grouted Rock Relards on Lt. 50' Apart, 11 Reqd.
Note: If the existing 6" Water Line is encountered in installing the 3'-72"×43" C.M.P. Arch Culv. the Contractor shall lower the line; leaving a minimum of 2' between bottom of Arch Pipe and top of Water Line. Cost of this work is not to be paid for directly but cost to be included in Unit Price Bid for Excavation Unclassified, which payment shall include all Excavating, Backfilling, Compacting, Pipe Fittings, Moving, Reinstalling, any new C.I. Pipe required because of Breakage or Shortage and all other incidentals necessary to complete the work.
Pi: 620+66.1
Δ 46°35' Rt.
D 22°00'
T 112.1'
L 211.7'
S.E.=0.08'/Ft.
Haul 2,337 To Hr. Sta.
Haul 2,337 To Hr. Sta.
8665
8660
8655
8650
8645
8640
8635
8630
N.M. PROJECT NO. S-1529(4) SHEET NO. 15