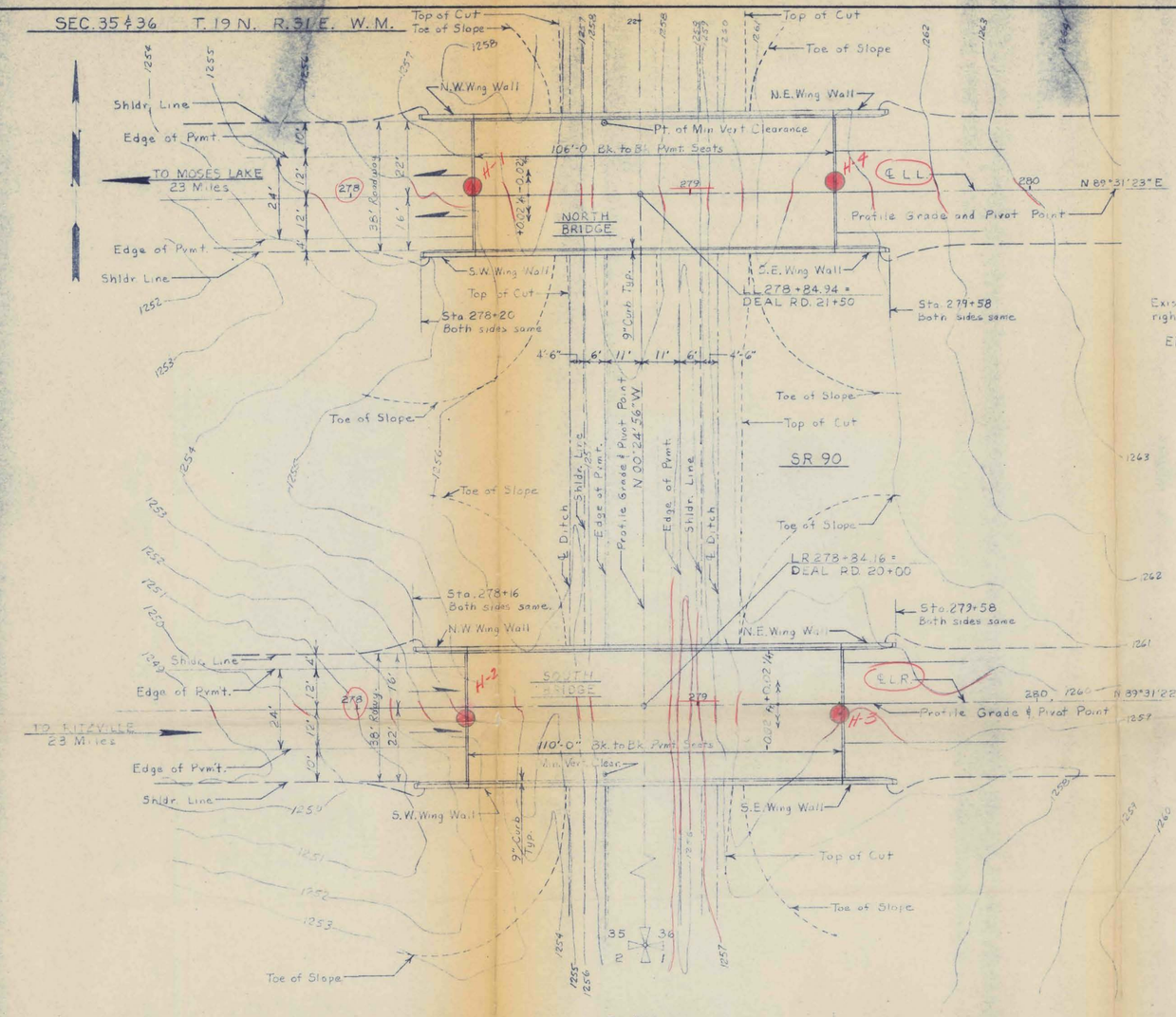
OCT 30 1968

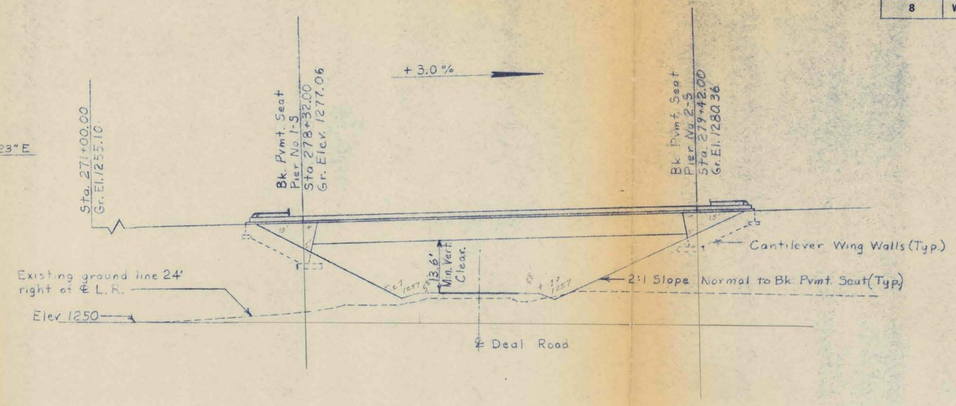
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8	WASH.				

SEC. 35 & 36 T. 19 N. R. 31 E. W.M.



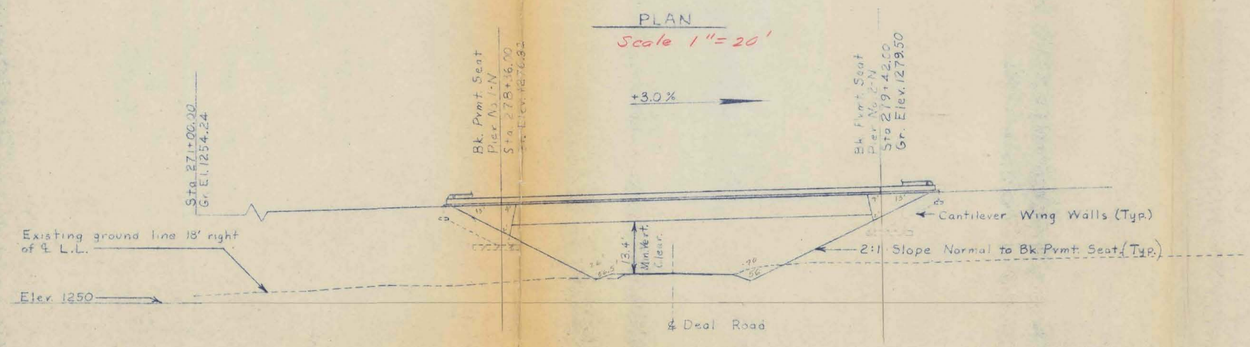
PLAN

Scale 1" = 20'



ELEVATION ~ SOUTH BRIDGE

Grade elevations shown are finish grades on ℄ of L.R. and are equal to profile grade.



ELEVATION ~ NORTH BRIDGE

Grade elevations shown are finish grades on ℄ of L.L. and are equal to profile grade.

Notes to District:

1. Will approach pavement be black top?
2. Revise grades to allow at least a 15' Min. Vert. Clearance.
3. Indicate datum in lower left corner.
4. Will bridge be constructed ~~before~~, with or ~~after~~ approach fills?
5. Will toe of slope remain within "Right of Way"? (R/W Lines not shown on field data)
6. We have assumed that ℄ of approved roadway section for Deal Road is on section line (Sec. 35 & 36). Is this correct?
7. Please verify mileage to towns.

LOADING: HS-20
OR
TWO-24" AXLES @ 4' CENTERS

ADT - 1990 10,350
DHV - 1990 710 & 600
Class - I

OCT 30 1968

Engineer of Bridge Design
Supervising Bridge Engr.
Designed
Design Checked
Drawn by (W.B.H.) J.M.L. OCT. 1968
Quantities Figured
Quantities Checked

100' Series Prestressed Girders.
'A' Dimension = 9" + 1½" Asphalt Overlay Assumed.
Assumed ℄ Exterior Girder 1'-9 from Curb Line.
North Bridge ℄ L.L. Sta. 278+73.94 ~ 15'3" Rt. } Pt. of Minimum
South Bridge ℄ L.R. Sta. 278+73.16 ~ 21'3" Rt. } Vert. Clearance
Layout Checked By A.W.B. 10-22-68

SR 90-1533-1

Program No. 65060A0 Control Section 0101 R BL 604C SR 90 SCHRAG INT. O-XING (DEAL ROAD)

H. F. 26.66 (Rev. 5-67)

WASHINGTON
STATE HIGHWAY COMMISSION
DEPARTMENT OF HIGHWAYS

Original to Materials Engineer
Copy to Bridge Engineer
Copy to District Engineer
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LOG OF TEST BORING

P S.H. 18 S.R. 90 Section Grant Co. Line to Ritzville Job No. L-2323
Hole No. H-1 Sub Section Deal Road O'Xing: Pier 1-N Cont. Sec. 0101-R
Station L1 278+36 Offset 3' Lt. ℄ Ground El. 1257.0
Type of Boring Rotary with Mud 8C48-8 Casing 4" 5.5 W.T. El. Dry Hole
Inspector Calvin Lockwood Date 29 Mar. 1969 Sheet 1 of 2

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	4		3 2 2 5 Std. Pen 1	SILT & SAND - Very loose to compact, brown FINE
5	19		6 7 12 16 Std. Pen 2	
10	22		6 10 12 12 Std. Pen 3	
15	30		13 15 15 13 Std. Pen 4	SILT SAND & GRAVEL - compact to dense brown, all sizes sand, fine gravel - in variable layers (Basalt & Caleche) (Tri-Cone hit cobble at 18.0)
20				

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Hole No. H-1 Sub Section Deal Road O'Xing Pier 1-N Sheet 2 of 2

EPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	56		12 19 37 50 Std. Pen 5	
25				SILTY SAND - Very dense, brown, fine
				with all sizes sand & fine gravel scattered
	113		25 88 Std Pen 6	throughout & occasional piece coarse gravel
30				
31.6	140/7"		40 1"-100 Std. Pen 7	
				BASALT - Very dense, black, shattered
				with brown silt in fractures
35				
.2	100/2"		2"-100 Std Pen 8	TEST BORING STOPPED AT 36.2
				Water Level: Dry Hole
40				Samples moist throughout hole

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DEPARTMENT OF HIGHWAYS

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LOG OF TEST BORING

P S.H. 18 S.R. 90 Section Grant Co. Line to Ritzville Job No. L-2323
Hole No. H-2 Sub Section Deal Road O'Xing: Pier 1-S Cont. Sec. 0101-R
Station L^r 278+32 Offset 3' Rt. ℄ Ground El. 1253.0
Type of Boring Rotary with mud 8C48-8 Casing 4" 5.5 W.T. El. Dry Hole
Inspector Calvin Lockwood Date 29-30 Mar 1969 Sheet 1 of 2

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	3		1 1 2 2 Std. Pen 1	SILT & SAND - Very loose to compact brown fine
5				
	16		5 7 9 11 Std. Pen 2	
10				
	18		6 7 11 42 Std. Pen 3	
15				SILTY SAND - Dense, brown, fine - with assorted sizes gravel scattered throughout (Basalt & Caleche)
	39		14 17 22 26 Std. Pen 4	
20				

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Hole No. H-2 Sub Section Deal Road O'Xing; Pier 1-S Sheet 2 of 2

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	76/6"		76 Std. Pen 5	SILTY SAND & GRAVEL - Very dense,
				Brown, all sizes (Basalt)
25				
	116/9"		36 Std Pen 6	
26.3			3"-80	
				BEDROCK - Very dense, black, badly
				shattered, basalt
30				
	100/2"		2"-100 Std. Pen. 7	(30.5-30.7) (No Recovery - Sample of Wash 27.0-30.5)
35				
	150/2"		2"-150 Std. Pen 8	(No recovery - sample of wash 33.0-35.5) TEST BORING STOPPED AT 35.7
				DRY HOLE
				SAMPLES MOIST THROUGHOUT HOLE

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STATE HIGHWAY COMMISSION
DEPARTMENT OF HIGHWAYS

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LOG OF TEST BORING

P S.H. 18 S.R. 90 Section Grant Co. Line to Ritzville Job No. L-2323
Hole No. H-3 Sub Section Deal Road O'Xing: Pier 2-S Cont. Sec. 0101-R
Station L^R 279+42 Offset 3' Rt. ℄ Ground El. 1259.0
Type of Boring Rotary with Mud 8C48-8 Casing 4" 5.5 W.T. El. Dry Hole
Inspector Calvin Lockwood Date 31 Mar. 1969 Sheet 1 of 2

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	4		1 Std. 1 Pen 3 1 3	SILT & SAND - Very loose to very dense Brown, fine
5				
	13		6 Std. 6 Pen 7 2 10	
10				
	75		14 Std. 23 Pen 52 3 63	
				SILTY SAND & GRAVEL - Compact to very
15				Dense, brown, all sizes sand & fine gravel
	30		18 Std. 16 Pen 14 4 44	
20				

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Hole No. H-3 Sub Section Deal Road O'Xing Pier 2-S Sheet 2 of 2

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	70/6"		70 Std. Pen 5	
25				
	100/2"		χ Std. 2"-100 Pen 6	GRAVEL - Very dense, shattered, basalt
				small amount silt
				BEDROCK - Very dense, black shattered
				Basalt - Trace of silt in fractures
30				
	100/1"		χ Std Pen 1"-100	(No recovery - Wash cuttings)
			W A S H 8	
35				
				TEST BORING STOPPED AT 35.5
				Dry Hole
				Samples Moist to 5.0 - Dry thereon
40				Except for Wash water

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WASHINGTON
STATE HIGHWAY COMMISSION
DEPARTMENT OF HIGHWAYS

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LOG OF TEST BORING

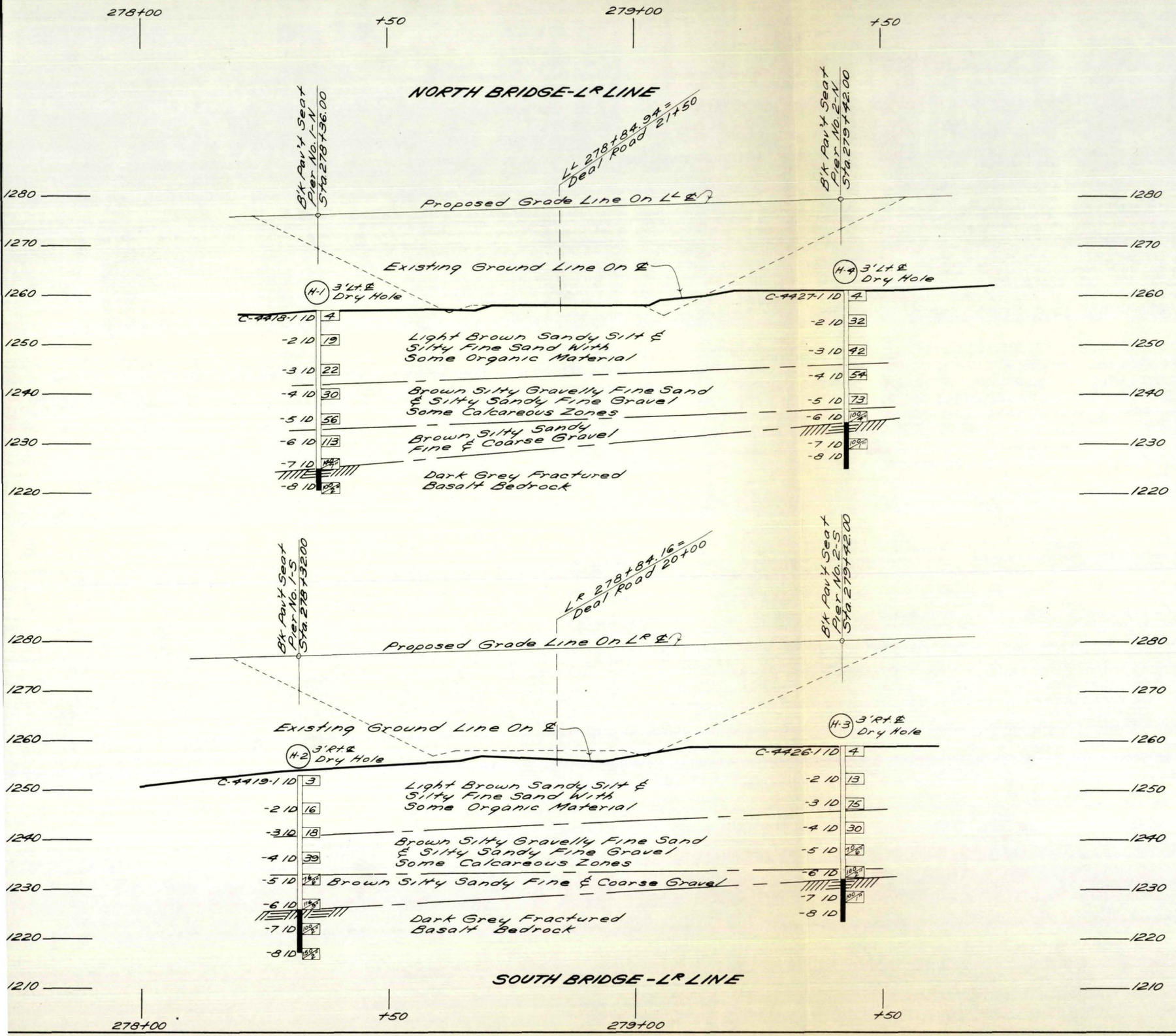
P S.H. 18 S.R. 90 Section Grant Co. Line to Ritzville Job No. L-2323
Hole No. H-4 Sub Section Deal Road O'Xing: Pier 2-N Cont. Sec. 0101-R
Station L1 279+43 Offset 3' Lt. ℄ Ground El. 1261.0
Type of Boring Rotary with mud 8048-8 Casing 4" 5.0 W.T. El. Dry Hole
Inspector Calvin Lockwood Date 31 Mar 1969 Sheet 1 of 2

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	4		1 2 2 3 Std. Pen 1	SILT & SAND - Very loose to dense, brown fine
5	32		10 12 20 19 Std. Pen 2	
10	42		9 18 24 37 Std. Pen 3	
15	54		24 27 27 27 Std. Pen 4	SILTY SAND & GRAVEL - Dense, brown all sizes sand & fine gravel (Basalt & Caleche)
20				

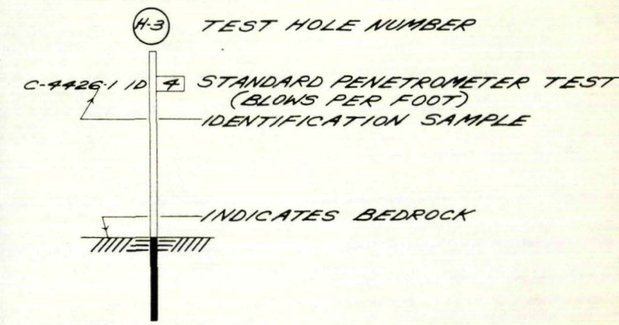
H. F. 2666-A (Rev. 5-67)

Hole No. H-4 Sub Section Deal Road O'Xing: Pier 2-N Sheet 2 of 2

DEPTH	BLOWS PER FT.	PROFILE	SAMPLE TUBE NOS.	DESCRIPTION OF MATERIAL
	73		10 26 47 69 Std. Pen 5	
25				GRAVEL - Very dense, shattered basalt
	100/4"		4"-100 Std Pen 6	small amount silt
				BEDROCK - Very dense, black
				shattered basalt - with silt in
30				fractures
			Std Pen 7	(No recovery wash from 27.0 to 31.0)
			1"-100	
			W A S H	
35			8	
				TEST BORING STOPPED AT 36.0
				DRY HOLE
40				SAMPLES MOIST TO 5 FT DRY THEREON



TEST HOLE LEGEND



THIS PRINT REDUCED 50%

JOB NO. L-2323 [S.R. 90] C.S. 010

GRANT CO. LINE TO RITZVILL

DEAL ROAD O'X-ING

FOUNDATION PROFILE

WASHINGTON STATE HIGHWAY COMMISSION
DEPARTMENT OF HIGHWAYS
MATERIALS DIVISION
R. Y. LECLERC — MATERIALS ENGINEER

DATE June 19
SCALE 1" = 10 V
1" = 10 H
SHEET 1 OF 1

Keuffel & Esser Co. Rankin #175H