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PRICE RIVER COAL COMPANY

P.O. BOX 629 HELPER, UTAH 84526 (801) 472-3411

June 28, 1982

RECEIVED

JUN 30 1982

Mr. Jim Smith, Mined Land Co-ordinator
 Department of Natural Resources
 Division of Oil, Gas, and Mining
 4241 State Office Building
 Salt Lake City, Utah 84114

DIVISION OF
 OIL, GAS & MINING

RE: Notification of intent to modify surface facilities at the Castle Gate coal preparation plant: Temporary return beltline from clean coal stacking area to load out belt line.

Dear Mr. Smith:

Our need to respond to current market conditions has necessitated a temporary alteration in our coal processing facilities to satisfy raw coal purchasers. The previously unused clean coal stacking area has been used as a coal storage area. Coal is being delivered to the site via the existing enclosed belt line and stacking tube.

Some re-furbishing of drainage controls was needed to assure adequate storage area and minimize environmental pollution potential. Re-furbishing included raising the height of existing berms, installation of a diversion on the north side of the storage area and installation of a culvert to the Price River to carry the unaffected hill side drainage.

The diversion was cut on the alignment of an old road using a D-6 size machine and a backhoe. Capacity is more than adequate to divert the ten year runoff. The culvert, installed is an 18" CMP.

Drainage designs were calculated using the attached 1" = 200' map. The grade on the diversion splits the drainage area into two sections as shown. Area "A" is 8.5 acres, area "B" 2.7 acres. These are well vegetated, undisturbed slopes. Using the equation $Q = CIA$ and assuming 20% runoff, a 5 minute time concentration and intensity of 2.7 inches per hour (based on an interpolation of both Price and Scofield data) we have generated the following peak runoff figures:

Area A - 4.7 Cfs

Area B - 1.5 Cfs

The 18" CMP used for area "A" with at least 16" of head at the inlet is adequate. The dozer cut diversions have a capacity of at least 10Ft.³ cross-sectional area and are obviously more than adequate for these small drainages. Outlets for both area will be rip-rapped.

Mr. Jim Smith
June 28, 1982
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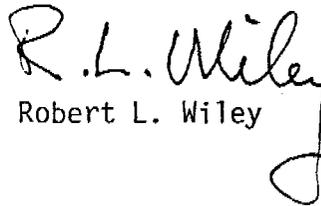
Storage in this area began on June 17, 1982. Diversion and pipe installation were completed (minus rip-rap) at that time. We are uncertain as to the time period storage may be required but to load this material out we will need to install a temporary 42" load out belt. The proposed alignment is shown on the attached 1" = 100' plan map. The proposed alignment will necessitate moving the existing south road berm closer to the river (depicted). This berm will be a minimum 2 feet high and installed prior to belt construction.

We need to begin construction of the belt within a few weeks. Due to our unplanned total shut down until the end of July, we are unsure of exact timing.

Please contact me or Ken Hutchinson if you have further concerns in this matter.

Sincerely,

PRICE RIVER COAL COMPANY


Robert L. Wiley

cc: K. B. Hutchinson

Attachments

ESTIMATED RETURN PERIODS FOR SHORT DURATION PRECIPITATION
(inches)

Station:
Latitude: 39° 47'

Elevation: 7630
Longitude: 111° 07'

D U R A T I O N

RETURN PERIOD (years)	D U R A T I O N									
	5 Min	10 Min	15 Min	30 Min	1 Hr	2 Hr	3 Hr	6 Hr	12 Hr	24 Hr
1	.15	.23	.29	.40	.51	.58	.65	.81	.96	1.11
2	.17	.27	.34	.47	.60	.69	.78	1.00	1.20	1.40
5	.22	.34	.43	.60	.76	.88	1.00	1.29	1.55	1.82
10	.25	.39	.49	.68	.86	1.00	1.14	1.49	1.80	2.12
25	.31	.48	.60	.84	1.06	1.23	1.39	1.80	2.16	2.54
50	.33	.51	.64	.89	1.13	1.33	1.52	2.00	2.43	2.87
100	.36	.55	.70	.97	1.23	1.46	1.67	2.21	2.69	3.19

Station: Silver Lake Brighton
Latitude: 40° 36'

Elevation: 8700
Longitude: 111° 35'

D U R A T I O N

RETURN PERIOD (years)	D U R A T I O N									
	5 Min	10 Min	15 Min	30 Min	1 Hr	2 Hr	3 Hr	6 Hr	12 Hr	24 Hr
1	.07	.11	.14	.19	.24	.42	.59	1.01	1.39	1.78
2	.10	.16	.21	.28	.36	.56	.75	1.22	1.64	2.08
5	.17	.26	.33	.46	.58	.80	1.01	1.53	2.00	2.48
10	.20	.31	.39	.54	.68	.92	1.16	1.74	2.26	2.80
25	.25	.38	.48	.67	.85	1.13	1.39	2.05	2.64	3.25
50	.28	.44	.56	.77	.98	1.28	1.57	2.30	2.95	3.62
100	.32	.50	.64	.88	1.12	1.45	1.76	2.54	3.24	3.96

TABLE 5-2(a)

ESTIMATED RETURN PERIODS FOR SHORT
DURATION PRECIPITATION (INCHES) - PRICE, UTAH*

Return Period (Yrs)	Duration									
	5 Min	10 Min	15 Min	30 Min	1 Hr	2 Hr	3 Hr	6 Hr	12 Hr	24 Hr
1	.08	.13	.17	.23	.29	.37	.44	.62	.78	.95
2	.12	.18	.23	.32	.40	.49	.58	.80	1.00	1.20
5	.16	.25	.32	.44	.56	.68	.79	1.07	1.32	1.58
10	.20	.31	.39	.54	.68	.81	.94	1.25	1.53	1.82
25	.24	.37	.47	.65	.82	.98	1.13	1.50	1.83	2.18
50	.28	.43	.54	.75	.95	1.12	1.29	1.71	2.08	2.47
100	.31	.49	.62	.85	1.08	1.27	1.45	1.91	2.32	2.74

Ref: Utah State University, 1971, Department of Soils and Biometeorology
Bulletin No. 1.

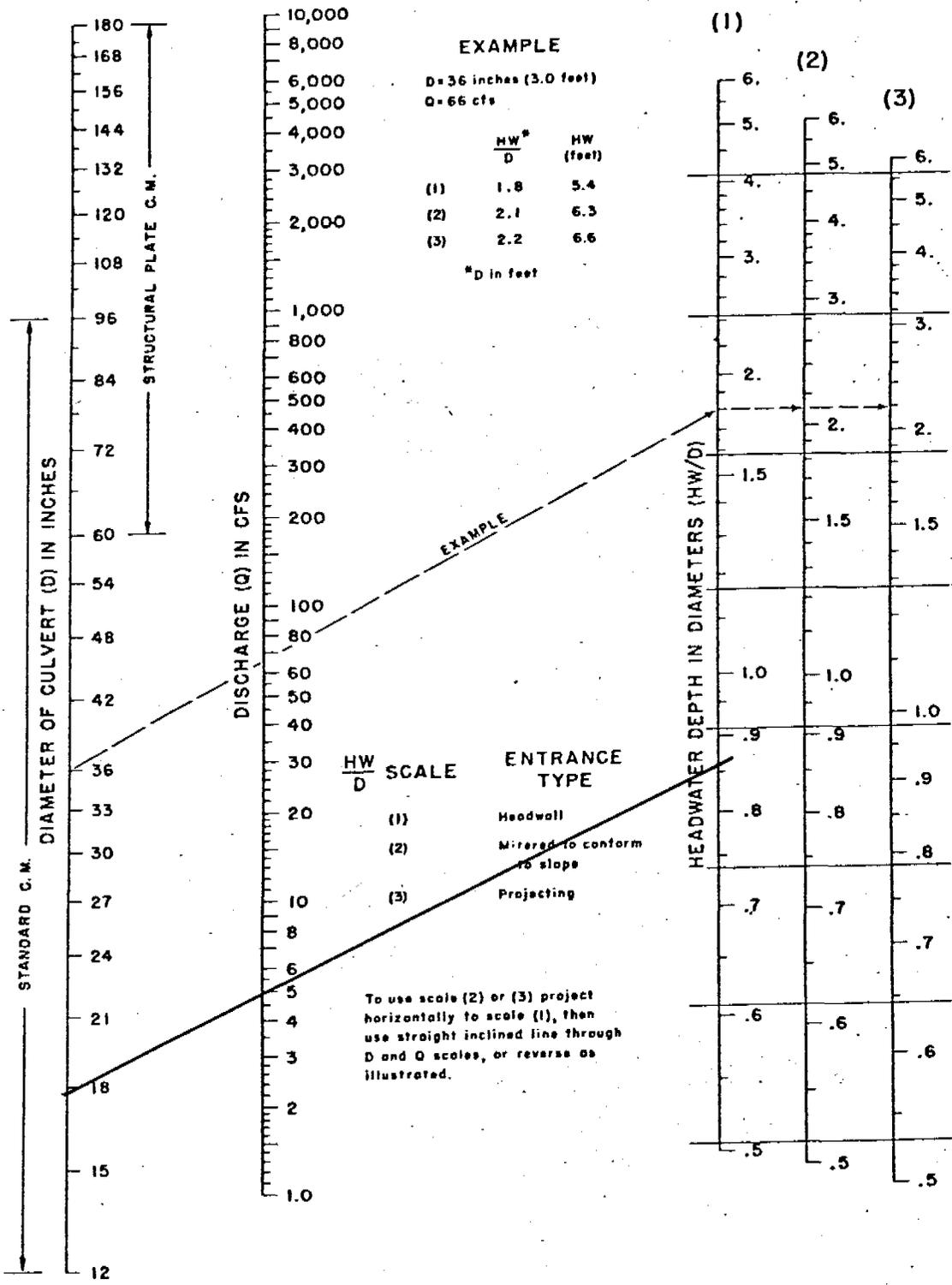
TABLE 5-2(b)

PRECIPITATION FOR CASTLE GATE AREA**

Storm	Precip (in)	Storm	Precip (in)
yr-6 hr	.92	2 yr-24 hr	1.30
yr-6 hr	1.20	5 yr-24 hr	1.65
yr-6 hr	1.32	10 yr-24 hr	1.90
yr-6 hr	1.65	25 yr-24 hr	2.30
yr-6 hr	1.85	50 yr-24 hr	2.70
yr-6 hr	2.05	100 yr-24 hr	2.90

Ref: National Oceanic and Atmospheric Administration,
1974, NOAA Atlas 2, Vol. VI, Rainfall Frequency
Maps of Utah

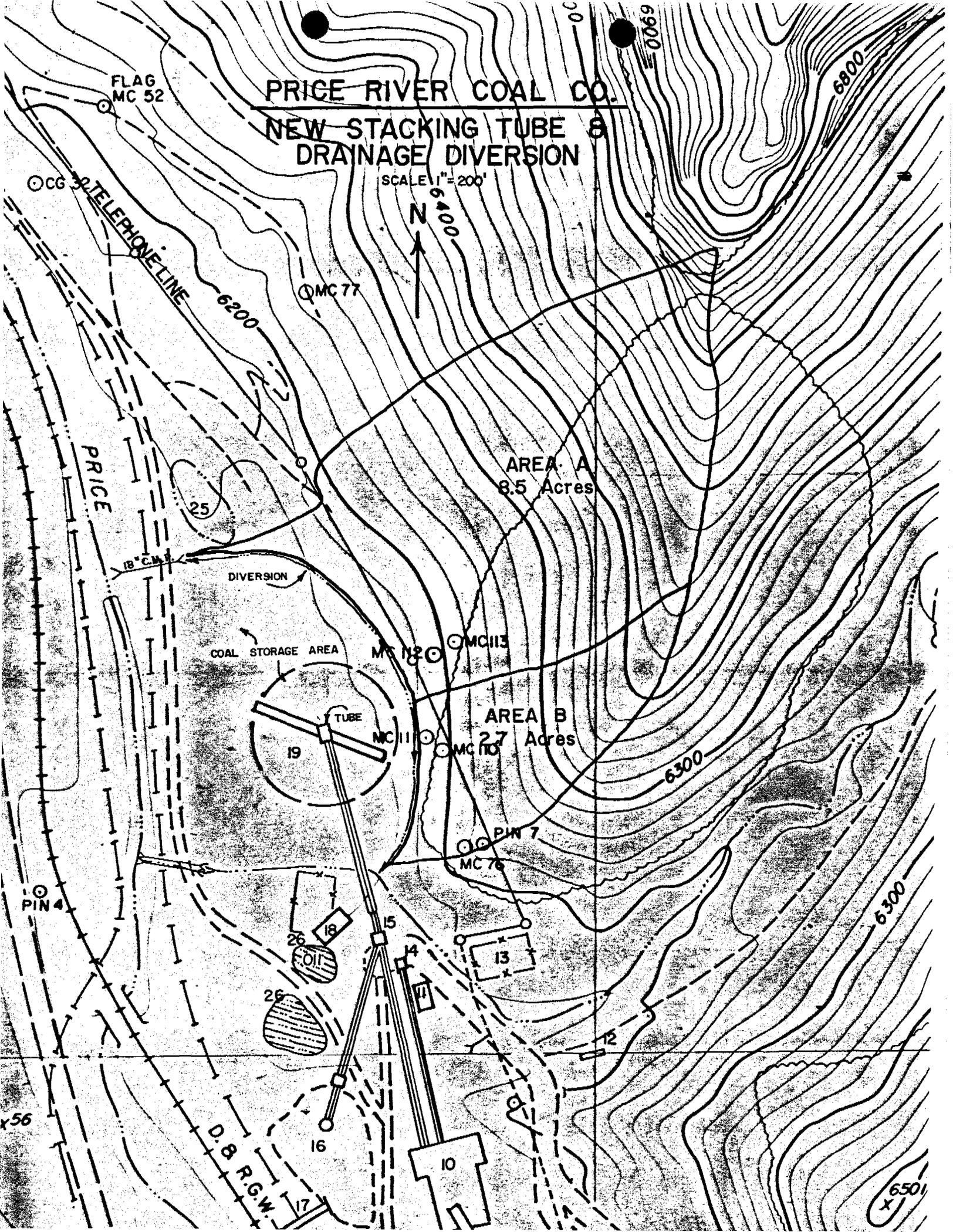
Chart 2-53: HEADWATER DEPTH FOR C.M.P. CULVERTS WITH INLET CONTROL



PRICE RIVER COAL CO.

NEW STACKING TUBE & DRAINAGE DIVERSION

SCALE 1" = 200'



FLAG MC 52

TELEPHONE LINE

PRICE

AREA A
8.5 Acres

DIVERSION

COAL STORAGE AREA

TUBE

AREA B
2.7 Acres

PIN 4

PIN 7
MC 76

D.B. P.G.W.

650
x