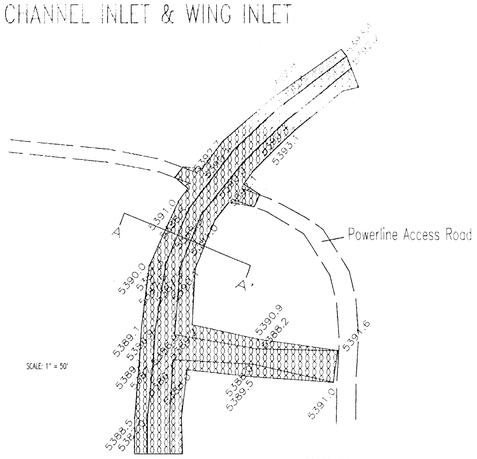
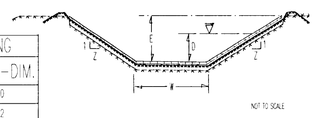
MAIN CHANNEL INLET & WING INLET

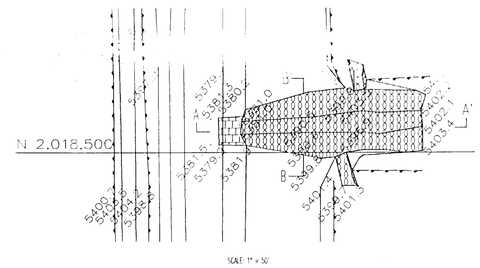


CROSS SECTION A – A'

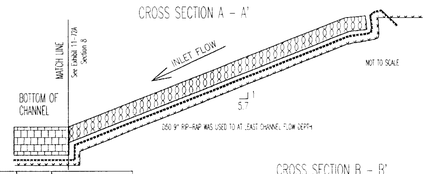


ITEM	DIM.	MAIN ELEV.–DIM.	WING ELEV.–DIM.
CHANNEL WIDTH (ft)	W1	15.0	12.0
FLOW DEPTH (ft)	D	2.43	1.12
FLOW W/ FREEBOARD	E	3.43	2.12
SIDE SLOPES	Z	2.5/2.5	2.5/5.0
VELOCITY (fps)		3.24	1.98
INFLOW RATE (cfs)		166.29	35.76
RIP-RAP D50 SIZE		9"	9"
RIP-RAP THICKNESS		1.5'	1.5'
MANNING'S NUMBER		0.038	0.038

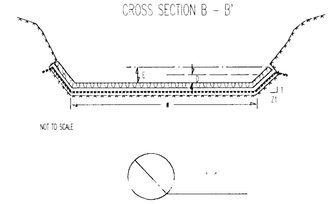
INLET #2 – STA 26+45



CROSS SECTION A – A'

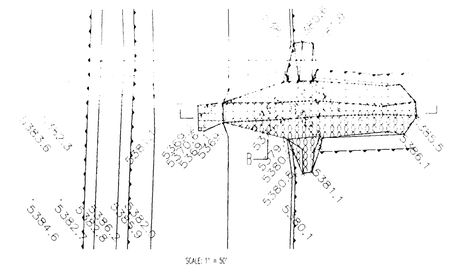


CROSS SECTION B – B'

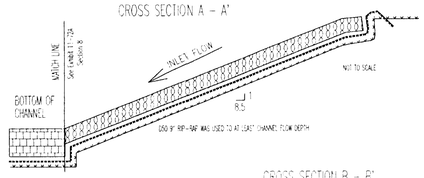


ITEM	DIM.	ELEV.–DIM.
INLET WIDTH (ft)	W	9.30 minimum
FLOW DEPTH (ft)	D	0.13
FLOW W/ FREEBOARD	E	1.13
INLET SLOPE (%)		17.52 average
SIDE SLOPES	Z1	2.0
VELOCITY		10.72
INFLOW RATE (cfs)		13.77
RIP-RAP D50 SIZE (in)		9.00
RIP-RAP THICKNESS (ft)		1.5 minimum
MANNING'S NUMBER		0.035

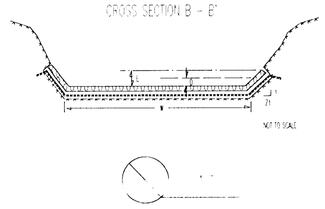
INLET #4 – STA 64+00



CROSS SECTION A – A'

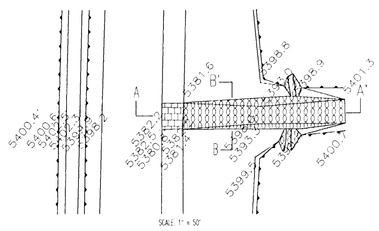


CROSS SECTION B – B'

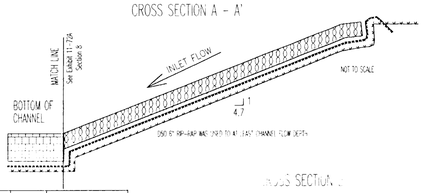


ITEM	DIM.	ELEV.–DIM.
INLET WIDTH (ft)	W	5.0 minimum
FLOW DEPTH (ft)	D	0.81
FLOW W/ FREEBOARD	E	1.81
INLET SLOPE (%)		11.7 average
SIDE SLOPES	Z1	2.0
VELOCITY		[illegible]
INFLOW RATE (cfs)		[illegible]
[illegible]		[illegible]
RIP-RAP THICKNESS (ft)		1.5 minimum
MANNING'S NUMBER		[illegible]

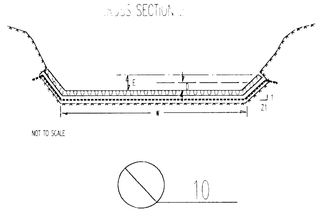
INLET #1 – STA 18+00



CROSS SECTION A – A'



CROSS SECTION B – B'



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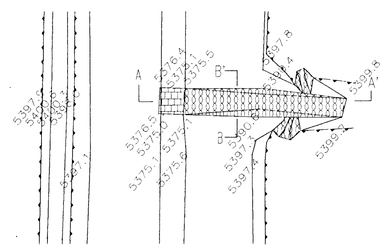
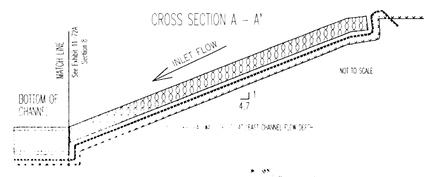
ITEM	DIM.	ELEV.–DIM.
INLET WIDTH (ft)	W	12.5
FLOW DEPTH (ft)	D	0.34
FLOW W/ FREEBOARD	E	1.34
MAX INLET SLOPE (%)		20.75
SIDE SLOPES	Z1	2.0
VELOCITY		5.96
INFLOW RATE (cfs)		13.85
RIP-RAP D50 SIZE (in)		3.0
RIP-RAP THICKNESS (ft)		0.5 minimum
MANNING'S NUMBER		0.051

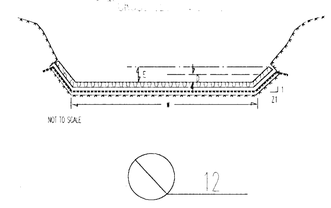
INLET #3 – STA 39+64



CROSS SECTION A – A'



CROSS SECTION B – B'



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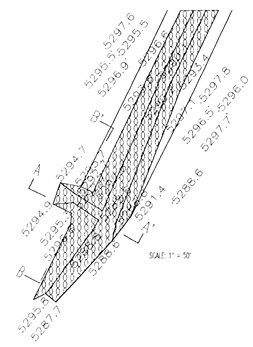
ITEM	DIM.	ELEV.–DIM.
INLET WIDTH (ft)	W	10.8
FLOW DEPTH (ft)	D	0.46
FLOW W/ FREEBOARD	E	1.46
MAX INLET SLOPE (%)		28.41
SIDE SLOPES	Z1	2.0
VELOCITY		6.56
INFLOW RATE (cfs)		19.30
RIP-RAP D50 SIZE (in)		6.0
RIP-RAP THICKNESS (ft)		1.0 minimum
MANNING'S NUMBER		0.065

INLET #5 – STA 108+82



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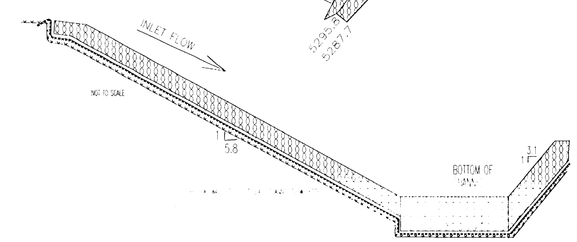

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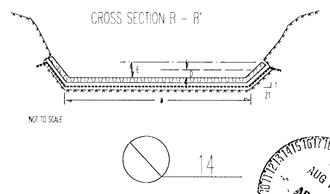

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ITEM	DIM.	ELEV.–DIM.
INLET WIDTH (ft)	W	6.9
FLOW DEPTH (ft)	D	0.25
FLOW W/ FREEBOARD	E	1.25
INLET SLOPE (%)		17.2
SIDE SLOPES	Z1	2.0
VELOCITY		4.51
INFLOW RATE (cfs)		8.48
RIP-RAP D50 SIZE (in)		3.00
MANNING'S NUMBER		0.052

APPROVED AUG 1997

LEGEND

RIP-RAP
GABION BASKET
GEOTEXTILE FABRIC

PLAN VIEW SECTIONS

0 50 100 150

Scale: 1" = 50'

BHP Minerals

NAVAJO MINE

FRUITLAND, NEW MEXICO

"AS-BUILT"
LOWE DIXON DIVERSION
GENERAL ARRANGEMENTS
MAIN & INLET CHANNELS

DRAWN BY JPD	SCALE N/A		
APPROVED BY	DATE 1/7/95		
DRAWING NO		LOCATION NO	

EXHIBIT
11-72B

REV	DATE	DRAFT BY	REVISION DESCRIPTION	LMG	E.Q.	P.E.	P.S.	TBP
2	06-07-97	BH	AS-BUILT DESIGN FOR INLETS #2 STA 26+45 & #4 STA 64+00					
1	10-08-96	DJR	RE-DESIGNED INLET FLOWS & RIP-RAP, CHANGED LAYOUTS ACCORDINGLY					
A	10-11-95	JPD	SUBMITTED TO OSM					

APPROVALS

MARI/USR/PROJECT/DALEY/LOWDIXDIV2.DGN