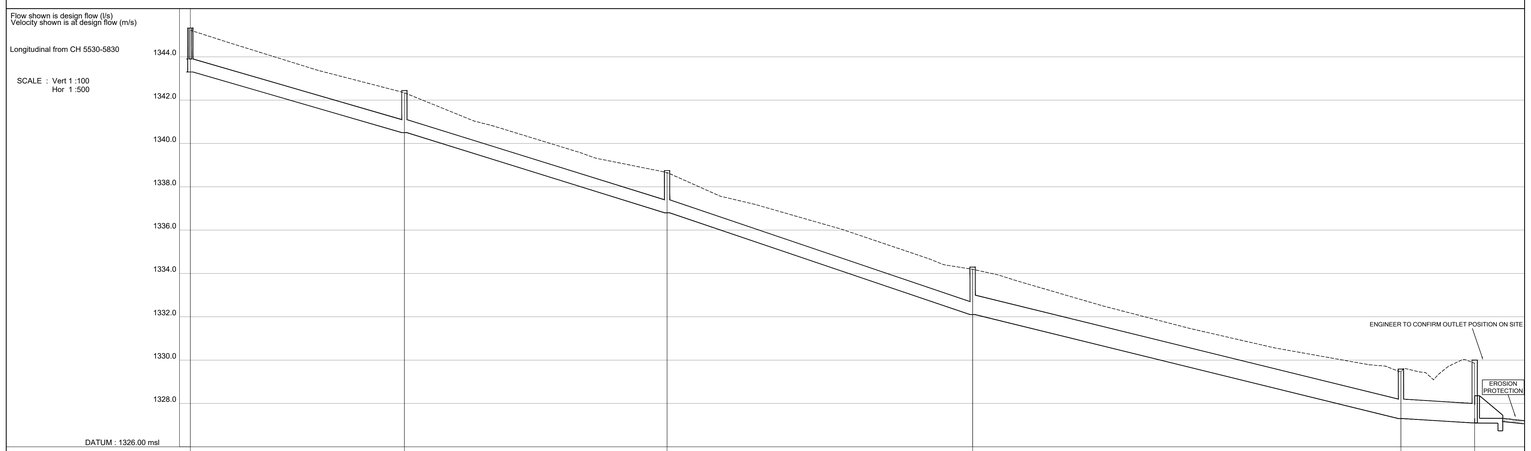
GI 46 - HW 18



Peg Distance (m)	0.00	49.39	110.00	180.51	279.35	296.35
Ground level (m)	1345.23	1342.34	1339.65	1334.19	1329.49	1329.85
Invert Level (m)	1343.30	1340.50	1338.80	1332.10	1327.30	1327.10
Depth (m)	1.93	1.84	1.85	2.09	2.19	2.75
Grade (1:_)		17.20	16.05	14.74	20.34	78.93
Capacity(80%D) (l/s)		1360.81	1408.81	1469.96	3661.34	1858.52
Flow (l/s)		450				590
Horizontal Align.		221:51:03	225:56:14	231:54:20	232:59:05	199:58:14
Pipe description		600mm dia./Class100D - Storm			900mm dia./Class100D - Storm	
Reference	GI 46	MH 16	MH 17	MH 18	GI 48	HW 18
Velocity (m/s)		4.9	5.0	5.2	4.5	3.0

GI 46 - HW 18

Pipe lengths (m)

Reference	Horiz.	Slope
GI 46 - MH 16	49.389	49.468
MH 16 - MH 17	60.609	60.721
MH 17 - MH 18	70.514	70.670
MH 18 - GI 48	98.837	98.954
GI 48 - HW 18	17.006	17.007

Pipe design data

Reference	Y	X	IL in / out		DEPTH in / out	
GI 46	87494.755	3282660.629	1343.300	1343.300	1.927	1.927
MH 16	87461.803	3282623.840	1340.500	1340.500	1.842	1.842
MH 17	87418.251	3282581.690	1336.800	1336.800	1.847	1.847
MH	87362.757	3282538.186	1332.100	1332.100	2.092	2.092
GI 48	87283.838	3282478.683	1327.300	1327.300	2.186	2.186
HW 18	87278.030	3282462.700	1327.100	1327.100	2.751	2.751

FOR FINAL APPROVAL

SYMBOL	DATE	DESCRIPTION	CHECKED	SIGNED
D	OCT 2019	FOR FINAL APPROVAL	KG	
C	AUG 2018	FOR APPROVAL	KG	
B	AUG 2016	FOR APPROVAL	MM	

AMENDMENTS

AS BUILT

SUPERVISING ENGINEER DATE

SUPERVISING AUTHORITY

CONTINUED FROM: C45234
CONTINUED ON: -
CROSS SECTION NO: C41972-C41982
PLAN NO: C41964-C41971

DESIGNED BY: M MARAIS
CHECKED BY: K GOVENDER
DRAWN BY: P RAMAUTAR
CHECKED BY: M SINGH

NAIDU CONSULTING - CONSULTING ENGINEER
K . GOVENDER SIGN : ..... DATE : .....

Designed by:-
NAIDU CONSULTING
Naidu Consulting no.:- D267/4121/D

transport
Department:
Transport
Province of KwaZulu-Natal

UPGRADE OF MAIN ROAD P402 (HOLY FAMILY CONVENT - KWAMGWAGWA)

TRANSPORTATION ENGINEERING : CHIEF ENGINEER

HEAD : TRANSPORT

DESCRIPTION

FROM KM 0+000 TO KM 7+517

PIPE LONGITUDINAL SECTION

STAKED KM DISTANCE
AS SHOWN

SCALE
HOR 1:2000
VERT 1:200

SHEET 12 OF 12

PLAN No.
C45235

C45235