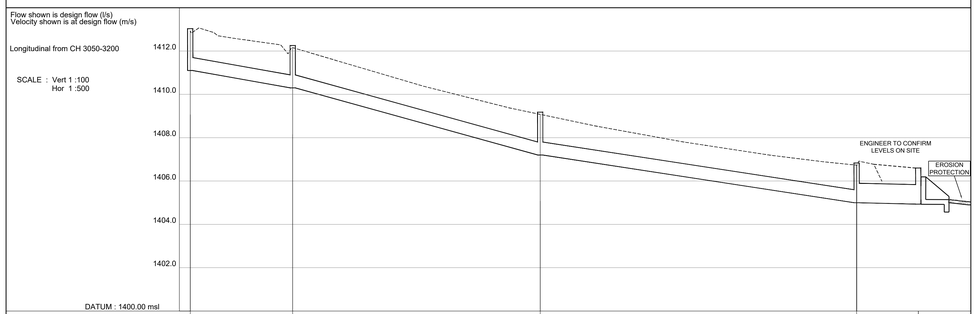
GI 21/22 - HW 8



Peg Distance (m)	0.00	23.65	80.76	153.78	168.00	
Ground level (m)	1412.03	1412.16	1409.08	1406.73		
Invert Level (m)	1411.10	1410.30	1407.20	1405.00	1404.93	
Depth (m)	1.83	1.86	1.88	1.73		
Grade (1:_)		28.04	18.03	32.61	200.00	
Capacity(80%D) (l/s)		1065.99	1329.22	988.46	1167.52	
Flow (l/s)		290		550	810	
Horizontal Align.		138:32:43	175:34:50	175:36:33	135:58:48	
Pipe description		600mm dia./Class100D - Storm			900mm dia./Class100D - Storm	
Reference	GI 21/22	MH 12	MH 13	GI 23/24	HW 8	
Velocity (m/s)		3.6	4.3	4.1	2.3	

GI 21/22 - HW 8

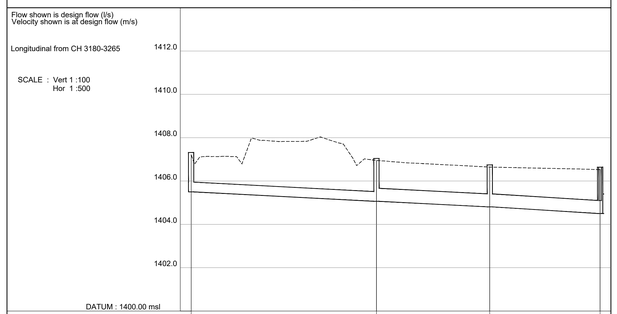
Pipe lengths (m)

Reference	Horiz.	Slope
GI 21/22 - MH 12	23.648	23.662
MH 12 - MH 13	57.115	57.199
MH 13 - GI 23/24	73.017	73.050
GI 23/24 - HW 8	14.220	14.220

Pipe design data

Reference	Y	X	IL in / out		DEPTH in / out	
GI 21/22	88783.483	3284578.760	1411.100	1411.100	1.833	1.833
MH 12	88799.139	3284561.036	1410.300	1410.300	1.857	1.857
MH 13	88803.540	3284504.091	1407.200	1407.200	1.877	1.877
GI 23/24	88809.130	3284431.289	1404.998	1404.998	1.735	1.735
HW 8	88819.012	3284421.063	1404.933	1404.933	-	-

GI 25/26 - D1_2



Peg Distance (m)	0.00	42.76	68.91	94.37	
Ground level (m)	1407.22	1406.95	1406.65	1406.53	
Invert Level (m)	1405.50	1405.06	1404.81	1404.50	
Depth (m)	1.72	1.89	1.84	2.03	
Grade (1:_)		95.28	97.01	78.96	
Capacity(80%D) (l/s)		286.03	573.07	635.19	
Flow (l/s)		230	245	255	
Horizontal Align.		140:50:05	175:18:38	177:15:21	
Pipe description		450mm dia./Class100D - Storm	600mm dia./Class100D - Storm		
Reference	GI 25/26	SW 64	SW 65	D1_2	
Velocity (m/s)		2.2	2.2	2.4	

GI 25/26 - D1_2

Pipe lengths (m)

Reference	Horiz.	Slope
GI 25/26 - SW 64	42.764	42.766
SW 64 - SW 65	26.151	26.152
SW 65 - D1_2	25.460	25.462

Pipe design data

Reference	Y	X	IL in / out		DEPTH in / out	
GI 25/26	88772.855	3284450.422	1405.500	1405.500	1.716	1.716
SW 64	88799.863	3284417.266	1405.064	1405.064	1.888	1.888
SW 65	88802.001	3284391.203	1404.807	1404.807	1.839	1.839
D1_2	88803.220	3284365.772	1404.500	1404.500	2.027	2.027

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:	C45231	DESIGNED BY:	M MARAIS
CONTINUED ON:	C45233	CHECKED BY:	K GOVENDER
CROSS SECTION NO:	C41972-C41982	DRAWN BY:	P RAMAUTAR
PLAN NO:	C41964-C41971	CHECKED BY:	M SINGH
NAIDU CONSULTING - CONSULTING ENGINEER	K . GOVENDER	SIGN :	DATE :

Designed by:-

NAIDU CONSULTING

Naidu Consulting no.:- D267/4118/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

SHEET 9 OF 12

SCALE: HOR 1:2000, VERT 1:200

PLAN No. C45232

C45232