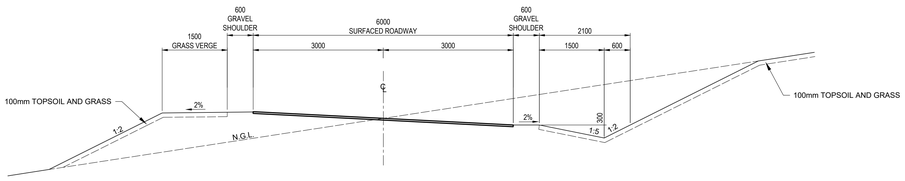
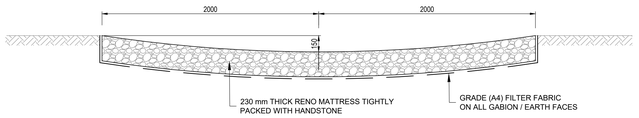
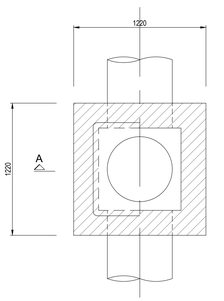


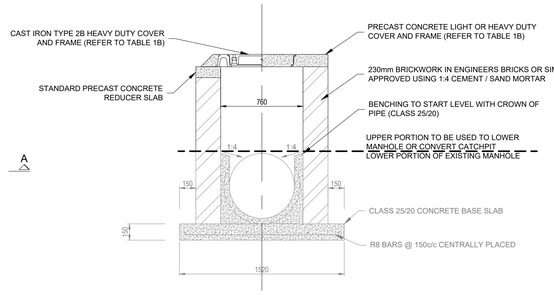
TYPICAL ROAD CROSS SECTION
SCALE 1:50



RENO MATTRESS LINING AT PIPE OUTLETS OR WHERE INSTRUCTED
SCALE 1:20

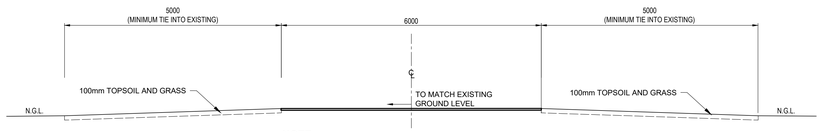


PLAN
SCALE 1:20



SECTION A-A
SCALE 1:20

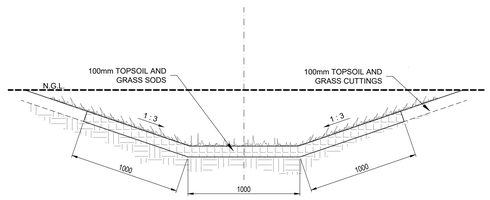
STORMWATER MANHOLE TYPE S1
TYPICAL MANHOLE FOR PIPES UP TO AND
INCLUDING 600mmØ AND LESS THAN 2,0m DEEP



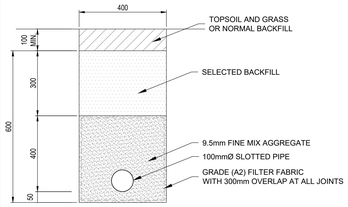
NOTE:

1. AREAS ADJACENT TO SURFACING TO BE TRIMMED TO ALLOW FREE DRAINING OF STORMWATER ACROSS OR AWAY FROM ROADWAY

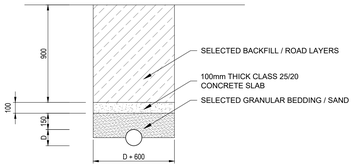
AIRFIELD PLATFORM ROAD
SCALE 1:50



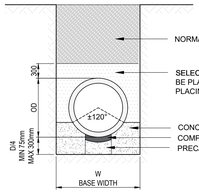
TYPICAL OPEN DRAIN - GRASS LINED
SCALE 1:20



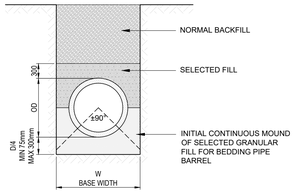
DETAIL OF SUBSOIL DRAIN
SCALE 1:10



DETAIL OF PIPE PROTECTION
SCALE 1:20



CLASS A
PIPE BEDDING TRENCH

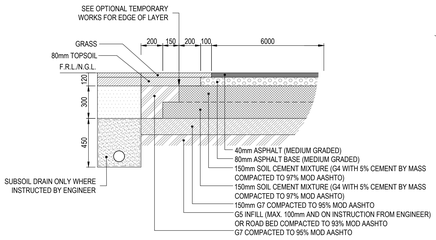


CLASS B
PIPE BEDDING TRENCH

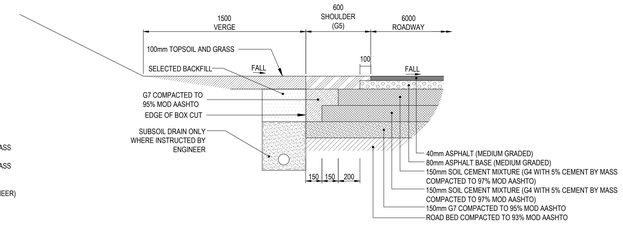
EXTERNAL DIAMETER OF PIPE BARREL (mm)		SIDE ALLOWANCE ON EACH SIDE
OVER	UP TO AND INCLUDING	
-	125	300
125	700	300
700	1000	400
1000	2000	500
2000	-	600

NOTES:

1. DEPTH OF MATERIAL BELOW PIPE, NOMINALLY D/4, SHALL BE SUBJECT TO A MINIMUM OF 75mm AND MAXIMUM OF 300mm
2. PLACING AND COMPACTION OF MATERIAL ADJACENT TO PIPE SHALL TAKE PLACE UNIFORMLY ON BOTH SIDES OF THE PIPE

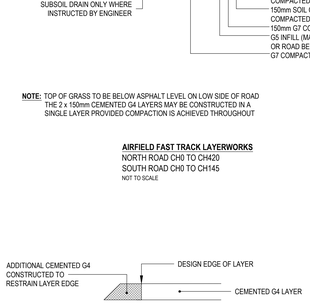


NOTE: TOP OF GRASS TO BE BELOW ASPHALT LEVEL ON LOW SIDE OF ROAD THE 2 x 150mm CEMENTED G4 LAYERS MAY BE CONSTRUCTED IN A SINGLE LAYER PROVIDED COMPACTION IS ACHIEVED THROUGHOUT

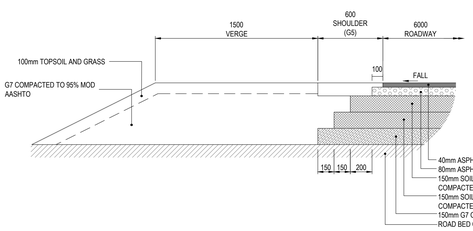


CUT
SCALE 1:20

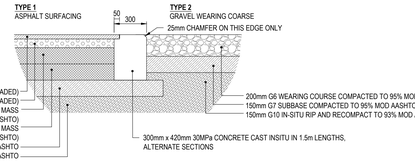
AIRFIELD FAST TRACK LAYERWORKS
NORTH ROAD CH0 TO CH420
SOUTH ROAD CH0 TO CH145
NOT TO SCALE



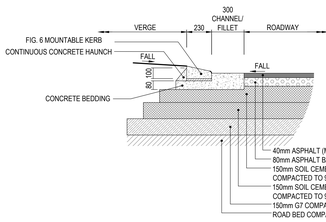
OVER CONSTRUCTION OF LAYER WIDTH
TEMPORARY WORKS LAYERWORKS
NOT TO SCALE



FILL
SCALE 1:20

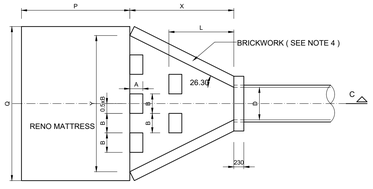


EDGE BEAM AT ASPHALT / GRAVEL INTERFACE
SCALE 1:20



AIRFIELD ROAD WITH KERB (WHERE INDICATED)
SCALE 1:20

NOTE: 300mm CHANNEL TO HAVE 1:10 FALL TOWARDS KERB. FILLET TO MATCH ROAD CROSSFALL



PLAN

NOM. PIPE DIA.	DIMENSIONS (mm)								
D	A	B	C	L	X	Y*	P	Q*
375	250	200	250	750	1800	2175	4000	3000
450	250	200	250	900	1800	2250	4000	3000
525	250	375	250	1050	2000	2525	6000	4000
600	300	450	300	1200	2200	2800	6000	4000
750	300	450	300	1500	2400	3150	6000	4000
825	300	450	300	1650	2600	3425	6000	6000
900	300	450	450	1800	2800	3700	6000	6000
1050	300	450	450	2100	3000	4050	6000	6000
1200	300	450	450	2400	3200	4400	6000	6000
1350	300	450	450	2600	3500	4790	6000	6000

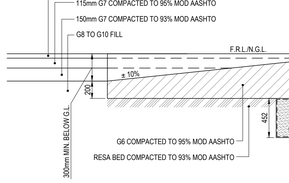
* Y AND Q TO BE INCREASED BY (D+300) FOR EACH ADDITIONAL PIPE BARREL

NOTES:

1. MATTRESS THICKNESS AS SPECIFIED BY ENGINEER
2. CONCRETE GRADE 25/20
3. COVER TO STEEL 40mm MINIMUM
4. REINFORCEMENT TO BE CUT AND BENT ON SITE MINIMUM LAPS 500mm
5. HEADWALL BRICKWORK SIZES (IN mm)

WALL HEIGHT	BRICKWORK
0-1100	230
1100-1400	345
1400-1800	460

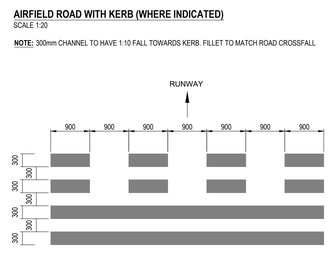
6. ALL EXPOSED BRICKWORK TO BE FACEBRICK, RUSTIC TAN
7. NO SPLITTER BLOCKS ARE REQUIRED FOR INLET HEADWALL STRUCTURES
8. THE RENO MATTRESS IS TO BE UPTURNED AT THE EDGES TO ENSURE THAT THE WATER FLOWS OFF THE CONCRETE AFORN AND ONTO THE MATTRESS



"RAMP" DETAIL WITH SUBSOIL DRAIN WITHIN RESA ONLY
SCALE 1:25

NOTE:
TOP OF GRASS TO BE BELOW ASPHALT LEVEL ON LOW SIDE OF ROAD

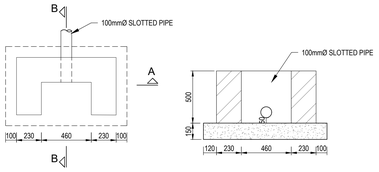
TYPICAL CROSS SECTION OF ACCESS ROAD
(LOOKING NORTH)



NOTE:

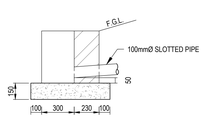
1. ALL MARKINGS TO BE IN 300mm WIDE REFLECTIVE PAINT (WHITE) ACROSS FULL WIDTH OF THE ROADWAY

RUNWAY HOLDING POSITION MARKING
SCALE 1:50



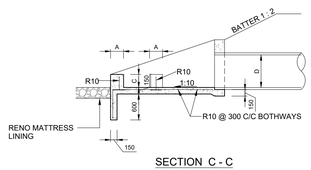
PLAN
SCALE 1:10

SECTION A - A
SCALE 1:10

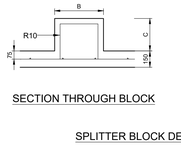


SECTION B - B
SCALE 1:10

DETAIL OF SUBSOIL DRAIN HEADWALL
SCALE 1:10



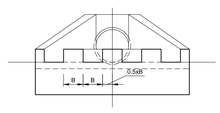
SECTION C - C



SECTION THROUGH BLOCK

BLOCK REINFORCING
(R10)

SPLITTER BLOCK DETAILS



ELEVATION

TYPE H1 HEADWALL
NOT TO SCALE

NOTES

FOR CONSTRUCTION

REVISION SCHEDULE

No	DATE	DESCRIPTION	DRW	CHK
A	'18/05/04	FINAL DESIGN ISSUED FOR APPROVAL	LD	JB
B	'18/10/24	DETAIL ADDED. ISSUED FOR APPROVAL	LD	JB
C	'18/11/05	LAYERWORKS REVISED. ISSUED FOR APPROVAL	LD	JB
D	'19/04/05	ISSUED FOR TENDER	LD	JB
0	'19/11/26	ISSUED FOR CONSTRUCTION	LD	JB
1	'20/03.13	DETAIL ADDED. ISS. FOR CONSTRUC.	LD	JB

CONSULTING ENGINEER

SIGNATURE	PR No	DATE
	200970005	2020/03/13

CLIENT

SIGNATURE		DATE

DESIGNED	DRAWN	CHECKED
J. BOHLER/K. NAIKER	L. DU PLESSIS	J. BOHLER

CONSULTANT

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Infrastructure Excellence
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www.ixengineers.co.za

CLIENT

AIRPORTS COMPANY SOUTH AFRICA

PROJECT

KING SHAKA
INTERNATIONAL AIRPORT
EMERGENCY AIRSIDE
ACCESS ROADS

DRAWING DESCRIPTION

CONSTRUCTION
DETAILS

SCALE FOR REDUCED PLAN

0 5 10 15 20 25 30 35 40 45 50
50mm ON ORIGINAL PLAN

DATE	SCALE	ORIGINAL SIZE
2018/04/19	AS SHOWN	A0

DRAWING NUMBER	REV
300713-00-CI-DRD-0001-001	1

P:\Civil\1 - Current Projects\300713_KSIA Emergency Airside Access Rds\6. Drawings\3. Actual\6_Civil\300713-00-CI-DRD.dwg

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