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NOTES.

- This drawing is to be read in conjunction with all relevant Architect's, Engineer's, Specialist's details and the Specification.
- All surface water pipes sizes as stated.
- All foul water pipes sizes as stated.
- All drainage pipes to BS EN 295 (clayware) or BS EN 1401 (plastic) U.N.O. Other materials may be permitted subject to the approval of the Engineer.
- Pipes to BS EN 295 with more than 900mm cover between pipe soffit and finished surface to be in Type 'B' bedding. Pipes to BS EN 1401 with more than 900mm between pipe soffit and finished surface to be in Type '3' bedding.
- All pipes under external paved areas with less than 900mm cover to be in Type 'A5' bedding.
- All manholes, trenches, culverts etc to be backfilled with imported granular fill to Class BFI (capping material) compacted to a maximum of 95% of maximum dry density of BS:1377: Part 4 (Vibrating Hammer method).
- The Contractor is responsible for ensuring that full and adequate temporary works are provided to maintain safety and stability of the existing structure whilst the new works are being carried out. The propping is to remain in position until such time that the new works can adequately sustain the intended loads. Details of the proposed temporary works are to be forwarded to the Engineer for comment prior to commencement of works being carried out. Reference should also be made to Nolan Associates Standard detail - Pipes near buildings: (D22)
- Polypropylene Access Chambers (denoted A.C.) are to be no deeper than 600mm.
- Pipe Gradients:
Pipes are to be laid to the levels and gradients shown. Pipe branches are to be laid no flatter than the following table:

	100%	150%
Gullies, sinks and basins	1:40	1:40
Pipes draining 1 or more WC's	1:80	-
Pipes draining 5 or more WC's	1:80	1:150
- For Manhole covers see schedule.
- The Contractor is to enter into all necessary legal agreements with the drainage authority for all connections to the Public Sewer Network.
- The Contractor is to survey all drainage outfalls and determine the levels of any Utility Apparatus that might affect the levels of drainage connections, prior to commencing any drainage works on site.
- The Contractor is to obtain the consent of the Highway Authority to any works within the highway and enter into any necessary legal agreements.
- Rising main to be BS EN 13244-2, all joints electro-welded to provide continuous main.

■ Porous Paving



Project Title: 2016-259
Project No.: The Dice

M.H. No.	Cover level	Invert level	Size	Type	Largest pipe	Cover type	Notes
S1	42.850	42.200	475	PPIC	150	C250	
S1.1	42.850	42.052	475	PPIC	150	C250	
S1.2	42.800	40.474	1200	CR	150	D400	Pumping station 1Ltr/sec
S1.3	42.800	42.032	1200	CR	150	D400	
S1.4	42.800	42.015	1200	CR	150	D400	Demarcation MH
S2	42.850	42.200	475	PPIC	150	C250	
S3	42.850	41.500	475	PPIC	150	C250	
S3.1	42.700	40.500	1200	CRCP	150	D400	
S4	42.850	42.200	475	PPIC	150	C250	
S5	42.550	41.750	600	Tegra	225	C250	
S5.1	42.550	41.171	1200	CR	225	C250	
S5.2	42.550	40.644	1200	CR	225	C250	Pumping station 15.8Ltr/sec
S5.3	42.550	41.408	1200	CR	150	C250	
S5.4	42.550	41.389	1200	CR	150	C250	Demarcation MH
S6	42.550	41.750	600	Tegra	225	C250	
S7	42.550	40.750	1200	CRCP	150	C250	
S7.1	42.550	40.719	1200	CRCP	150	C250	
S8	42.950	41.200	1200	CRCP	225	C250	
S8.1	42.950	41.180	1200	CRCP	225	C250	
S8.2	42.950	41.092	1200	CR	225	C250	
S8.3	42.900	40.997	1200	CR	225	C250	Pump Sta /Restrict 17.5Ltr/sec
S9	42.900	42.300	600	Tegra	225	C250	

NOTES
C.R. Concrete ring manhole see std. detail D1 or D15
CRCP Concrete Ring Catchpit see std detail D14
P.P.I.C Polypropylene Inspection Chamber see std detail D13
X 800sq. Medium duty recessed, anti-slip, screw-down cover and frame eg Broadstel
D400 800sq. Heavy duty, ductile iron, cover and frame to BS EN 124 D400
C proprietary light duty cover and frame

NOLAN ASSOCIATES
PRELIMINARY DRAWING
NOT TO BE USED FOR CONSTRUCTION

P2	Permeable Paving extent added	CH	KP	23.08.17
P1	Preliminary issue	MH	JG	09.12.16
REV	DESCRIPTION	BY	CHKD	DATE

The Dice

Drainage Layout

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Drawn by	Date	Plot Date	Scale
MH	08.12.16	23.08.17	1:250@A0
Checked by	Project No	Dwg No	
JG	2016-259	101	P2