














GENERAL NOTES:-

1. THE CONTRACTOR WILL BE DEEMED TO HAVE INSPECTED THE SITE AND BE IN AGREEMENT WITH THE WORKS REQUIRED AS PER THE TENDER DOCUMENTS, UNLESS ALTERNATIVE PROPOSALS WITH COST IMPLICATIONS ARE RESOLVED TOGETHER WITH THE TENDER DOCUMENTS. ALTERNATIVE PROPOSALS SUBMITTED DURING CONSTRUCTION SHALL BE ON A DESIGN AND CONSTRUCT BASIS, WITH THE DESIGN AT CONTRACTOR'S EXPENSE.
2. VARIATIONS DEEMED NECESSARY BY THE CONTRACTOR SHALL BE FORWARDED TO THE PROJECT MANAGER IN WRITING FOR APPROVAL BEFORE ANY CONSTRUCTION BASED ON THE VARIATION COMMENCES.
3. SERVICES SHOWN ON DRAWING ARE KNOWN OR SOURCED FROM EXISTING DRAWINGS. THE CONTRACTOR MUST ENSURE THAT ALL SERVICES THAT INTERSECT OR RUN ALONGSIDE THE PROPOSED WORKS ARE LOCATED BEFORE CONSTRUCTION COMMENCES. ANY CLASHES SHALL BE REPORTED TO THE PROJECT MANAGER IN WRITING. THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGES TO EXISTING SERVICES DUE TO NEGLIGENCE.
4. ALL EXISTING PIPES AND MANHOLES INCORPORATED INTO THE NEW SYSTEM SHALL HAVE DEFECTS RECTIFIED TO COMPLY TO STANDARDS FOR NEW WORKS.
5. DIMENSIONS SHOWN ON DRAWINGS SHALL TAKE PREFERENCE OVER DIMENSIONS SCALED.
6. ALL LEVELS AND DIMENSIONS SHALL BE CHECKED BEFORE ANY WORK COMMENCES. FAILURE TO DO SO SHALL DEEM THE CONTRACTOR LIABLE FOR ANY WORK REQUIRED TO RECTIFY ERRORS AS A RESULT OF THE FAILURE TO CHECK THE LEVELS AND DIMENSIONS.
7. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS, UNLESS OTHERWISE INDICATED.
8. THE LATEST REVISION OF SANS SPECIFICATIONS SHALL APPLY. ALL WORK SHALL BE DONE IN ACCORDANCE WITH RELEVANT SANS SPECIFICATIONS, UNLESS OTHERWISE INDICATED.
9. ALL LENGTHS SHOWN ARE APPROXIMATE AND SHALL BE CONFIRMED ON SITE BY CONTRACTOR.

ATTACHMENTS:-		STORMWATER NOTES:-	CONSTRUCTION & REHABILITATION ACTIVITIES FOR STORMWATER SYSTEM:-
1.	ANY DISCREPANCIES IN LEVELS AND SETTING OUT DATA TO BE QUERIED WITH THE ENGINEER PRIOR TO COMMENCEMENT OF ANY WORK.	1. TRENCHES FOR PPES TO BE EXCAVATED AND BACKFILLED IN ACCORDANCE WITH THE REQUIREMENT OF SANS 1200 DB - PIPE TRENCHING.	1. REMOVE ALL DUST & CAVED MATERIAL FROM SURFACE & SUBS-SURFACE DRAINAGE SYSTEMS.
2.	ALL WORKMANSHIP TO BE IN ACCORDANCE WITH SANS 1200 PART D: EARTHWORKS AND THE RELEVANT PROJECT SPECIFICATIONS AS INCLUDED IN THE CONTRACT.	2. ALL RIGID CONCRETE PPES SHALL HAVE CLASS B BEDDING UNLESS STATED OTHERWISE.	2. REPAIR BROKEN SINKHOLE & RE-SHAPE ALL HARD STANDING AREAS TO ENSURE DRAINAGE TOWARDS THE DETENTION POND.
3.	BEFORE PLACING ANY FILL MATERIAL, THE EXISTING GROUND SURFACE MUST BE CLEARED AND GRUBBED OF ALL VEGETATION AND ORGANIC MATTER.	3. FOR STORMWATER PPES SHALL BE SPIGOT & SOCKET CLASS 1000 (SANS 677).	3. PPES, CULVERTS, MANHOLES & CHANNELS NEED TO BE CLEANED REGULARLY AS SYSTEM IS BLOCKED & MANHOLES ARE SLEET UP.
4.	UNLESS OTHERWISE INDICATED, ALL BANK BATTERS TO BE: 1:1.5 OUT AND 1:2 FILL	4. ALL CONCRETE PIPE JOINTS TO BE WRAPPED WITH 42 B00M JMWOWEN/CONTINUOUS FLYDNET/NEEDLE PUNCHED POLYESTER REINFORCED MESH WITH TO BE 75mm PPES 3000 TO 6000.	4. LENGTHS OF PPES, NUMBER OF CULVERTS & MANHOLES CLEARLY SHOWN IN LONGITUDINAL SECTION FOR QUANTIFYING.
5.	THE UNCOMPLICATED THICKNESS OF FILL LAYERS SHALL NOT EXCEED 300mm	5. NB, ALL MANHOLE COVERS TO SUIT CROSSFALL OF FINISHED PAVING.	5. CLEAN OUT ALL SLABS & DRYING BEDS.
6.	LOCATE ALL EXISTING SERVICES IN AREA PRIOR TO ANY CONSTRUCTION TAKING PLACE.	6. ON COMPLETION, THE INSTALLATION SHALL BE TESTED TO THE ENGINEERS SPECIFICATION.	6. RE-SHAPE ALL HARD STANDING AREAS TO ENSURE DRAINAGE AWAY FROM THE ROADS TOWARDS THE STORMWATER POND.
7.	THE CONTRACTOR IS TO TAKE DOWNTERRAINING AND ENCOUNTERING BEDROCK INTO ACCOUNT IN ACCORDANCE TO THE TRUE NATURE AND EXTENT OF THE WORKS. SEE WORKS INFORMATION FOR MORE DETAIL.	7. THE CONTRACTOR SHALL SUBMIT A FULL SET OF AS-BUILT DRAWINGS UPON COMPLETION OF THE INSTALLATION.	7. LOW POINTS TO BE REPAIRED WITH A MINIMUM OF 150 mm G2 LAYER COMPACTED TO 95 % MOD ASHTO.
		8. ALL EXISTING STORMWATER PPES, MANHOLES, CHANNELS AND ANY OTHER STORMWATER INFRASTRUCTURE TO BE CLEARED AND CLEARED OF ALL DEBRIS BEFORE ANY WORK COMMENCES. ALL DAMAGED EXISTING STORMWATER INFRASTRUCTURE SHALL BE REINSTATED TO ORIGINAL CONDITION.	CONSTRUCTION & REHABILITATION ACTIVITIES FOR POND 6 AND POND 12:-
		9. ANY DISCREPANCIES IN LEVELS AND SETTING OUT DATA TO BE QUERIED WITH THE ENGINEER PRIOR TO COMMENCEMENT OF ANY WORK.	1. FOR RESPECTIVE POND DETAIL REFER TO DRAWING S201597-2-001-COE-0002-01.
		10. ALL EXISTING STORMWATER PPES ARE CONCRETE UNLESS STATED OTHERWISE.	2. CLEAR ALL GRUB & VEGETATION.
			3. CONTRACT TO 95 % MOD ASHTO.
			4. REPAIR & REINSTATE ALL DOWN CHUTES IF APPLICABLE.
			5. PLACE STONE PITTING ENERGY DISSIPATORS AT OUTLET OF CULVERTS & DOWN CHUTES.
			6. DETENTION POND TO BE CONSTRUCTED TO UNIMPROVED LAYERWORKS.
			7. PLEASE SEE S201597-2-001-COE-0002-01 FOR POND 6 AND POND 12 LAYERWORKS.
			8. STEEL BOLLARDS (QUANTITY 40) TO BE PLACED AROUND POND 12:
			8.1. 9mm THICK RILD STEEL
			8.2. 150mm DIAMETER
			8.3. AT LEAST 900mm ABOVE GROUND
			8.4. REMOVABLE TO ALLOW ACCESS FOR MAINTENANCE PERMANENT METAL GROUND SOCKET ANCHORED IN A CONCRETE FOUNDATION
			8.5. 40MPa PLAIN CONCRETE FOUNDATION OF 400mm X 400mm X 450mm DEEP - MIN COVER OF 50mm
			8.6. PAINTED IN REFLECTIVE YELLOW PAINT

NOTES:

- a. MEASUREMENTS ARE BASED ON METRIC SYSTEM.
- b. ALL LEVELS ARE IN METERS TO MEAN SEA LEVELS (MSL)
- c. DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED.
- d. THE CONTRACTOR SHALL VERIFY ALL SERVICES OR CONDITIONS ON THE SITE AND NOTIFY THE ENGINEERING OF ANY VARIATIONS FROM DIMENSIONS BEFORE CONSTRUCTION.

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