

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL ARCHITECT'S, ENGINEERS AND SPECIALIST'S DRAWINGS WITH THE RELEVANT SPECIFICATIONS.

DESIGN MATERIALS USED AND METHOD OF CONSTRUCTION TO BE IN ACCORDANCE WITH: SANS 0100, D137, D160 - 0154, AS APPLICABLE.

THIS DRAWING NOT TO BE SCALED.

2. REINFORCED CONCRETE

THE APPLICABLE STANDARD SPECIFICATION IS SANS 1200 G
- 1982.

CONCRETE COVER TO REINFORCEMENT AND CONCRETE STRENGTH TO BE AS INDICATED BELOW. COVER IS GIVEN TO THE NEAREST FACE. MINIMUM BAR COVER TO BE MAXIMUM OF BAR DIAMETER AND AS SHOWN BELOW. SPECIFIED COVER TO BE MAINTAINED USING CEMENT MORTAR COVER BLOCKS OR APPROVED PLASTIC SPACERS.

ELEMENT	CONCRETE STRENGTH AT 28 DAYS (N/mm ²)	COVER (mm)
FOUNDATIONS	25	40
COLUMNS	25	30
BEAMS	-	-
SLABS	-	-
WALLS	-	-

1. ALL AGGREGATE TO BE 19mm UNLESS OTHERWISE SPECIFIED.

L. CONCRETE DESIGN MIXES TO BE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION.

CUBE TESTS TO BE CARRIED OUT ON SITE AND LOGGED WITH POSITION AND DATE BY INDEPENDENT LABORATORY. CUBES TO BE TAKEN FOR EACH TYPE OF ELEMENT, AT LEAST ONE DAY AND, AT LEAST ONE CORNER.

REINFORCEMENT TO BE IN ACCORDANCE WITH SANS 920 AND SHALL BE IDENT IN ACCORDANCE WITH SANS 920.

ALL CAST IN ITEMS SHALL BE FREE OF OIL, GREASE, DIRT OR ANY OTHER MATERIAL WHICH MAY IMPAIR THE BOND WITH THE CONCRETE. CONTRACTOR TO REFER TO

UNLIMITED SPECIALIST DRAWINGS FOR
DETAILS/POSITIONS OF OPENINGS, SLEEVES, CONDUITING,
ETC. FOR STORMWATER, SEWERAGE AND OTHER
APPLICATIONS

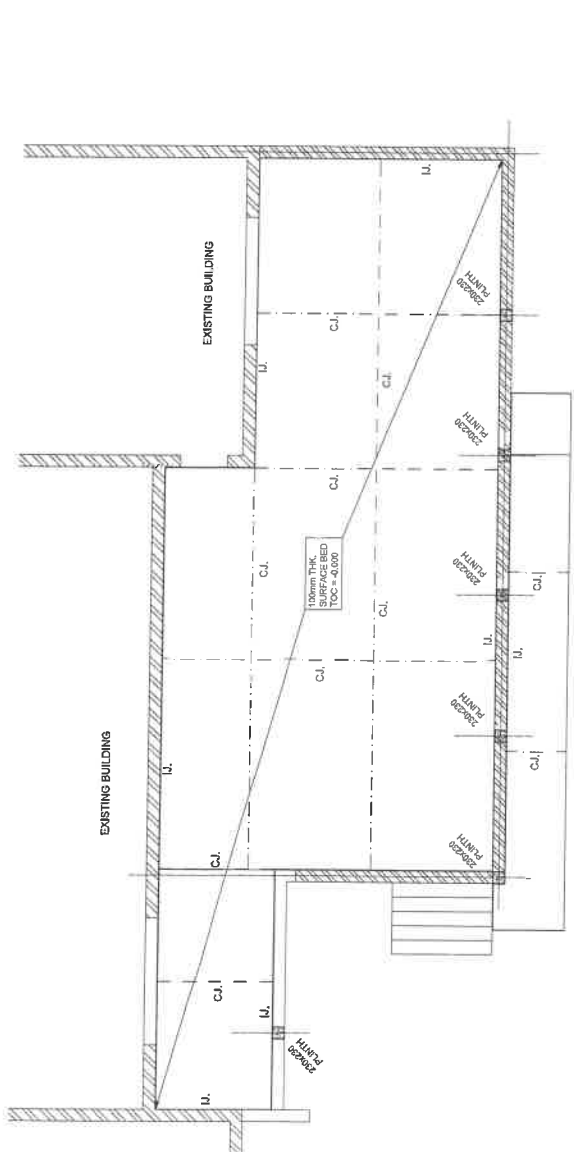
FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE

ALL FOUNDATION EXCAVATIONS TO BE INSPECTED BY THE
GEOTECHNICAL ENGINEER PRIOR TO COMMENCEMENT OF
CONSTRUCTION.

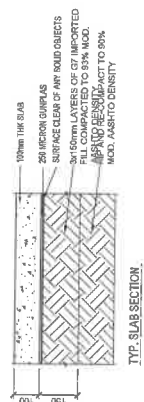
REMOVAL OF FORMWORK TO BE IN ACCORDANCE WITH THE PROJECT SPECIFICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR BACK-PROPPING ON MULTI-STORY

SURFACE BEDS:

RESPONSIBILITY
TO ENSURE
RANDOM

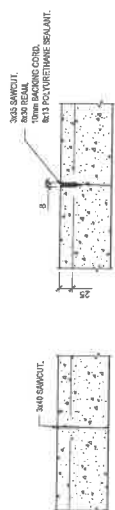


SURFACE BED LAYOUT



TYP. SLAB SECTION

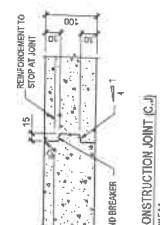
REMOVE AND DISPOSE ALL TOPSOIL APPROXIMATELY 500mm DEEP, REPLACE WITH IMPORTED G7 OR BETTER QUALITY GRANULAR MATERIAL COMPACTED TO 93% MOD AASHTO DENSITY.



CONTRACTION JOINT
SCALE 1:5
SCREENED PORTIONS



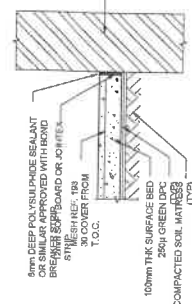
CONTRACTION JOINT



CONSTRUCTION JOINT [C.J.]



* INDICATES CONSTRUCTION OR
CONSTRUCTION JOINT TO SUIT CASTING
CONCRETE



TYPICAL ISOLATION JOINT DETAIL

LEGEND:

PROPOSED:	STORMWATER LINE	EXISTING
	MANHOLE	
	KERB INLET	
	ROAD CENTRELINE	
	ROAD	
	FENCE	
	GRID INLET	
	STORMWATER CONNECTION POINT	

PROJECT STATUS



REV#	DATE	DESCRIPTION
2011/23		RE-ISSUED FOR CLIENT APPROVAL
12/1/21		ISSUED FOR CLIENT APPROVAL

FOR THE UNIVERSITY OF CHICAGO

Avalon Cemetery Admin Block

10592

STAGE 30 PROPOSED
CONTRACT - 1000000

STRUCTURAL

SURFACE BED LAYOUT & DETAILS

Proposed Waiting Area

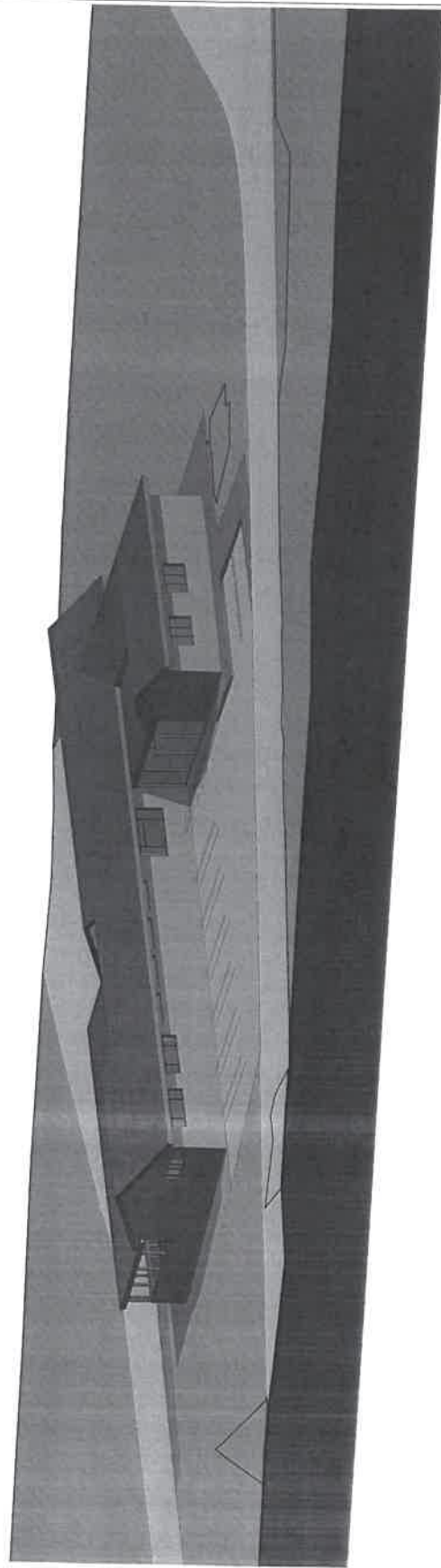
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29	AD 30748	AD 30748				
30	FLANGODA	FLANGODA				
31	AD 30748	AD 30748				
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2WC
CONSULTING

DATE	11/11/2011	REV	B
CD	A103-ST-002		
ISSUED FOR: MONITOR			

1	A104	02
CAD	DATE: 11.11.2013	REV
1:1	1:1	1:1





ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT BRITISH STANDARDS. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETRES. DIMENSIONS MUST NOT SCALE FROM THESE DRAWINGS. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR MINERAL CEMENT CONCRETE WORKING, THIRD EDITION 2006 AND THE STANDARD DETAIL DRAWINGS. THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH THE STANDARD DRAWINGS (IF APPLICABLE).

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LEGEND:

PROPOSED:	MANHOLE	EXISTING:
	KERB INLET	EXISTING:
	ROAD CENTERLINE	
	ROAD	
	FENCE	
	GRI D INLET	
	STORMWATER CONNECTION POINT	

PROJECT STATUS

CONCEPT DRAWING TENDER DRAWING APPROVED CONSTRUCTION DRAWING AS BUILT DRAWING

REV#	DATE	DESCRIPTION
		SIZE ON ORDERING DRAWINGS AND PART

15075 ON DISTRICT, DEPARTMENT, 1001 1001

Avalon Cemetery Admin Block

PROPOSED DESIGN

AGE 02 PROPOSAL

ARCHITECTURE

[illegible]

3Ds

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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CONTRACTOR

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A104

A104

1

ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SABS (UNLESS OTHERWISE SPECIFIED). ALL DIMENSIONS MUST BE CHECKED AND APPROVED ON SITE. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR MUNICIPALITY ENGINEERING WORKS, THIRD EDITION 2003 AND THE STANDARD DETAIL DRAWINGS. THE BEST DRAWINGS MUST BE READ IN CONJUNCTION WITH THE STANDARD DRAWINGS (IF APPLICABLE).

STORMWATER LINE
MANHOLE
KERB INLET
ROAD CENTERLINE
ROAD
FENCE

CONCRETE
DRAWING

FENCE
DRAWING

APPROVED AS BUILT
CONSTRUCTION DRAWING

1997

PROPOSED DESIGN

STAGE 02 PROPOSAL

POLYESTER FIBRE

R-SBPA	Q-MTH-EMBU
MTS	R-SBPA

[illegible]

CONTRACTOR

A103	
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Seal off external cracks on plaster and paint.
Provide lockable security calorates size 450x
900mm high
remove existing tiles in abutments and replace with
new gloss ceramic tiles at 1800mm height

Ground Floor Plan
scale: 1 : 50

INSULATION
Insulation under roof sheathing and above ceiling boards, 125mm thick
yellow wood ceiling insulation; laid above ceiling according to

INSULATION
Insulation under roof sheathing and above ceiling boards, 125mm thick mineral wool ceiling insulation; field above ceiling according to manufacturers specification. With combination of 25mm insulation membrane under roof sheathing.

new colour WATER WOODS (GUTTERS & DOWN PIPES) re-coated aluminium seamless gutters, size 100 x 75 x 0.6mm thick colour to be determined by architect including matching rivet/blood mitres and caps internally sealed using Siltan Mastic, hung by nail fixed external aluminium hangers at 600mm centres with rectangular fluted downpipes, size 100 x 75 x 0.6mm thick colour to be determined by

mineral wool ceiling insulation; false
above ceiling according to
manufacturer's specification. W/ty
combination of 250mm steel plate
membrane under roof cladding

60x40 2.5mm thick
rectangle for hollow
rod sheet piling

conc. larvae feeding
driver's speed limit

11

INTERNAL WALLS
Plaster and paint internal walls. Paint window frames and door frames as per specifications

LDOR
 Jack up. Remove and clean screed holes and
 fill with concrete. Apply self leveling screed
 and install anti-slip porcelain tiles

LARGE BOARDS
Remove existing and replace with 225 x
6mm thick fibre cement barge board.
COLESONRY : (300mm girth barge finishing)

New D-Form roof sheathing galvanized inside. Fixed on

remove and replace as
100 x 75mm fish water p

[illegible]

Plaster and paint
Siding in front wall

111

[illegible]

UNIONATIONS

Unionations should be held at an surface of properly prepared base. Proper composition of the classified fill material in layers not exceeding 200 mm when mechanical requirement is to be used or 300 mm when hand-laid requirement is to be used or 200 mm when hand-laid compaction is to be used, must take place for all foundation types.

INDOCHINA
can down existing steel windows, steel grilles, steel
natural roof members, burglar bars, etc., and apply two coats
of Methylene Urethane on existing enamel painted surfaces.
Also and overhead mesh of steel windows, including ceiling

replace existing barge board with new 219 X 12 mm thick cement fibre barge board

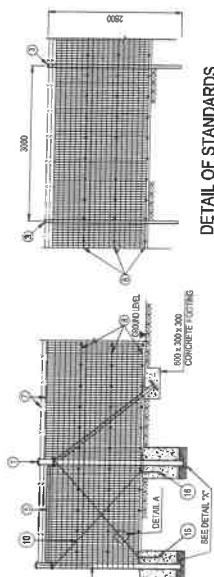
Existing Brickwork

[illegible]

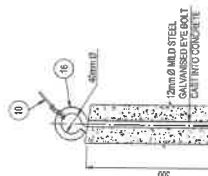
Ne: 1

CEMETERY	PROJECT TEAM	DATE	SCALE
	PROJECT MANAGER	2004/09/09	AS SHOWN
	A. MURPHY	SHEET NO.	
	COLORED	1 OF 1	
	M. P. SEMANE	CONSULTANT PROJECT NO.	
		REF:	DATE:
	DRAWN	A1	CIVIL
	T. S. NIOSHI	DRAWING NUMBER	
	CHECKED		

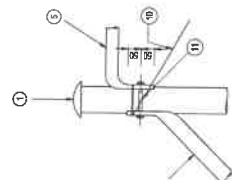
DETAIL OF STANDARDS



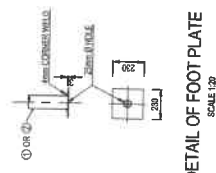
ENCE DETAIL AND STRAINING POST AT GATE



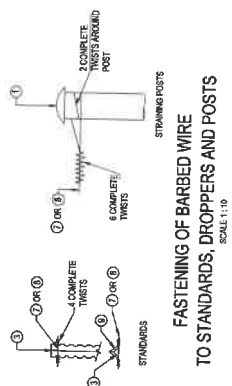
DETAIL OF
STEEL PEG
SCALE 1:5



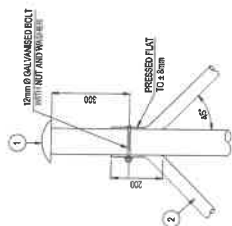
DETAIL 8
SCALE 1:10



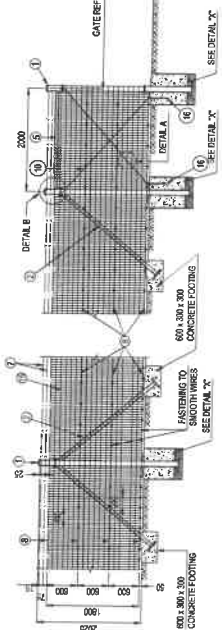
DETAIL OF FOOT PLATE



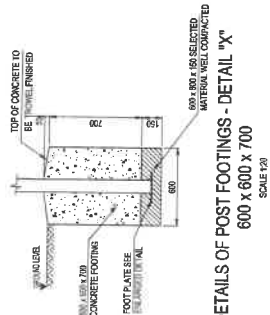
FASTENING OF BARBED WIRE TO STANDARDS, DROPPERS AND POSTS



DETAIL OF
STRAINING POST
SCALE 1 : 10



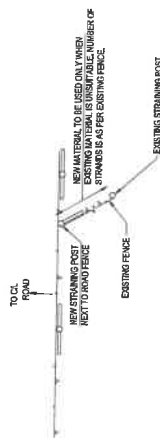
STRAINING POST DETAIL



DETAILS OF POST FOOTINGS - DETAIL "X"
600 x 600 x 700
SCALE 1/20



DETAIL OF TYING MESH
TO SMOOTH WIRE
NTS



FENCING IN RELATION TO ROAD AND REPAIR
OF EXISTING FENCE IF CUT BY ROAD RESERVE

ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT BASIS REQUIREMENTS. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS. THESE DRAWINGS MUST BE CHECKED AND APPROVED ON SITE.

LEGEND:

 KERB INLET
 ROAD CENTERLINE

 GRID INLET
 STORMWATER CONNECTION POINT

PROJECT STATUS

[illegible]

SIZE ON ORIGINAL DRAWING 100 mm

Avalon Cemetery Admin Block

STAGE 02 PROPOSAL
ARCHITECTURE

Site Plan		ITEM No.
No.		

PSAT/7/10/07

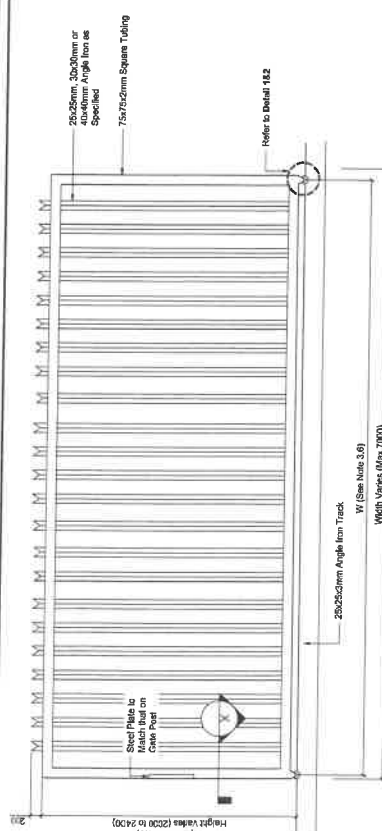


VVO
CONSULTING
ENGINEERS

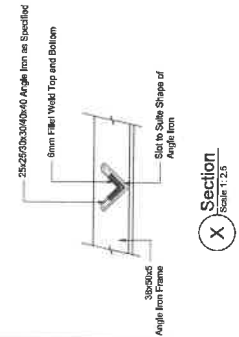
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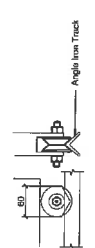
PROJECT TEAM	DATE 2027/12/26	SCALE AS SHOWN
PROJECT MANAGER	SHEET NO. 1 OF 1	CIVIL A1
A.MABUNDTA	CONTRACT PROJECT NO.	DRAWING NUMBER 100-PM-4001
DESIGNED	REV.	VOTE NUMBER
M.R SEMANE	DRAWN	
T.S. NKOSI	CHECKED	
T.85/31		



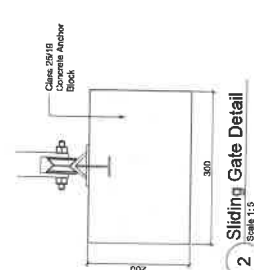
Sliding Gate Detail
Scale 1:25



Section
Scale 1:2.5



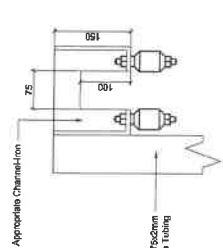
Sliding Gate Detail
Scale 1:5



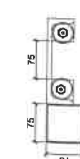
3000

Sliding Gate Detail

Scale 1:5



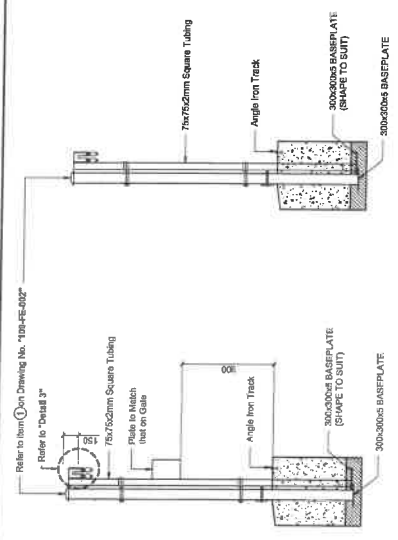
Elevation
Gateposts for Sliding Gate Detail



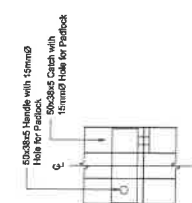
Plan

Gateposts for Sliding Gate Detail

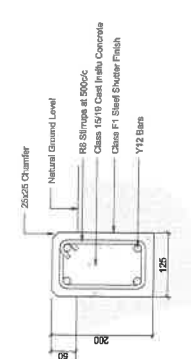
Scale 1" = 5'



Gateposts for Sliding Gate Detail
Scale 1:25



C Detail
Scale 1:5



Typical Section
Concrete Beam
Scale 1:5

- | Fencing Notes | |
|---------------|--|
| 1. General | All Material and with the Required |
| 1.1. | SANIS Recycled Do not Scale |
| 1.2. | SANIS Recycled Do not Scale |
| 1.3. | Approved on All Construction |
| 1.4. | with the Sanis Down to the Ground |
| 1.5. | Applicable |
| 2. Concrete | |
| 2.1. | All Excavations/Retaining Walls/Engineered Retention/Reinforcement |
| 2.2. | Impacted and Structural Before |
| 3. Steel | |
| 3.1. | Otherwise Induced Cold Formed |
| 3.2. | Structural and Cold Formed |
| 3.3. | Holding Down |
| 3.4. | Splicing of Steel |
| 3.5. | The Rules Ten |
| 3.6. | shall be Checked |
| | and Height of |
| | Respectively. |
| | Shown on the |
| | Schedule of |

AMENDMENTS					CONSULTANT:		CLIENT:		PROJECT APPROVAL				PROPOSED SLIDING GATE - DETAILS				AVALON CEMETERY			
REV	DATE	APPROVED	DESCRIPTION	BY	2MC CONSULTING ENGINEERS		CITY PARKS HOUSE 49 DE KORTE STREET BRAMFONTEIN Tel: +27(0) 11 712 9800 Fax: +27(0) 11 403 4685 www.joburgcityparks.com		ENGINEERING MANAGER		SIGNATURE		DATE		PROJECT TEAM		SCALE			
1	25/11/06	1.280/1	ISSUED FOR APPROVAL	LS	2MC CONSULTING ENGINEERS BRANDROODLOOCHS HOUSE UNIT 44 BRANDROODLOOCHS 19 BRADFORD ROAD BEDFORDVIEW 2007		Postal Address PO BOX 99 HEINRICH 1603 TELL: 084 810 6129		PROJECT MANAGER						PROJECT FILE		DATE			
									PROJECT MANAGER						A MANORICA		ARCHITECT			
									CLIENT APPROVAL						DESIGNED		CONSULTANT PROJECT FILE			
									SIGNATURE		DATE				MIL. REMARK		REV. DATE			
									ENGINEERING OPERATIONS						DRAWN		A CIVIL A1			
															T.S. NOTED		DRAWING NUMBER			
															CHECKED		100-FE-003			
															T.S. NOTED		DATE: 14/03/07			

1. POSTS:
2600K 100 X 3mm MILD STEEL, TUBING WITH STEEL CAP AND 230 X 230 X 3mm BASE PLATE,
FULLY GALVANIZED (SANS 1216SD 1461) (WITHOUT HOLES FOR WIRES).

2. STAYS:
3550 X 15 X 3mm MILD STEEL, TUBING WITH 230 X 230 X 3mm BASE PLATE, FULLY GALVANIZED
(SANS 1216SD 1461).

2. STAYS: 3650 X T8 X 3mm MILD STEEL TUBING WITH 230 X 230 X 3mm BASE PLATE, FULLY GALVANIZED (SANS 1216501481).

3. STANDARDS:
2000 X 2.5 kg/m³ SECTION COMPLETE WITH HOLES AT 50 mm CENTRES, FULLY GALVANIZED (SAIS 12/ISO 481) IF WITHIN 25 km FROM THE COAST.

4. DRÖPPEHS: NONE

5. CROSS BRACE SUPPORT :
2400 X 60 Ø X 3mm MILD STEEL TUBING BENT AND FLATTENED AS SHOWN, FULLY GALVANIZED
(SANS 12115SD 1461) LENGTHS PRESSED FLAT TO ± 8mm.

6. BARBED WIRE:
32 X 2.5mm OVAL HIGH TENSILE GRADE SINGLE STRAND 10 LBS PER 100 YD.

7. SMOOTH WIRE:

3.0mm Ø HIGH TENSILE GRADE (SAWS 675) FULLY GALVANIZED.

8. TYING WIRE:
2.5mm Ø MILD STEEL (SANS 875), FULLY GALVANIZED FOR TYING TO STANDARDS, 1.6mm Ø MILD STEEL (SANS 575), FULLY GALVANIZED FOR TYING MESH TO SMOOTH WIRES.

9. STRAINING WIRE:

4mm Ø MILD STEEL (SANS 675), FULLY GALVANIZED, (4 STRANDS, DOUBLED AND TWISTED TO TAKE STRAIN).

10. BOLTS FOR STAYS:
12mm Ø MILD STEEL, INCLUDING NUTS AND WASHERS, FULLY GALVANIZED.

11. MAXIMUM SPACING OF:

STANDARDS 3m of

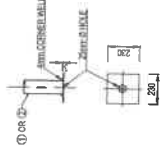
12. ALL WIRES TO BE ERECTED

13. MINIMUM CONCRETE STRENGTH OF FOOTINGS 20 MPa AT 28 DAYS.

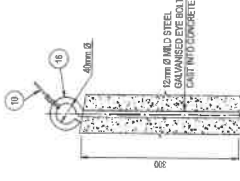
100 X 50 X 2.5mm Ø (1600 HEIGHT) FULLY GALVANIZED,
IN, WELDED MESH:

15. STEEL PEG:

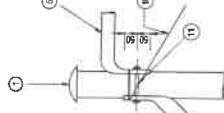
12mm & MILD STEEL FULLY GALVANIZED,



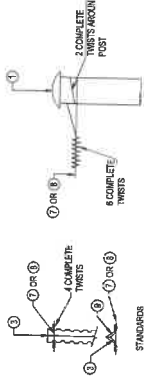
DETAIL OF FOOT PLATE



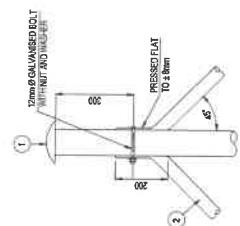
DETAIL OF
STEEL PEG
SCALE 1:5



DETAIL B
SCALE 1:10



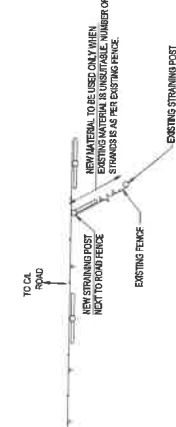
FASTENING OF BARBED WIRE
TO STANDARDS, DROPPERS AND POSTS



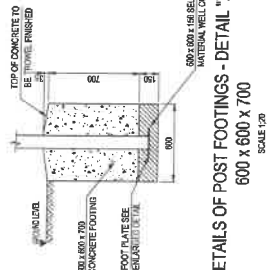
DETAIL OF
STRAINING POST



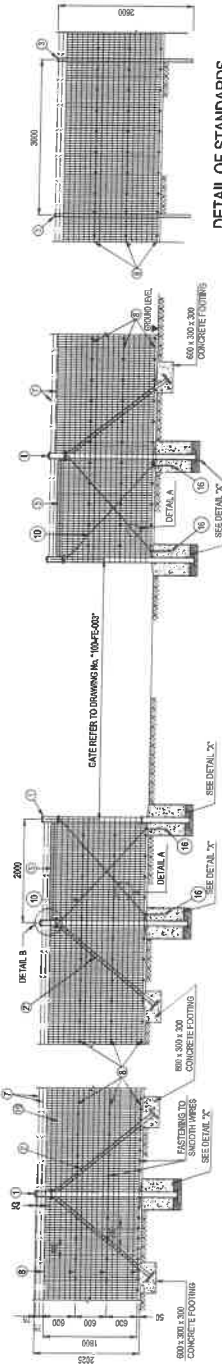
DETAIL A
N.T.S.
DETAIL OF TYING MESH
TO SMOOTH WIRE



FENCING IN RELATION TO ROAD AND REPAIR
OF EXISTING FENCE IF CUT BY ROAD RESERVE



DETAILS OF POST FOOTINGS - DETAIL "X"
600 x 600 x 700

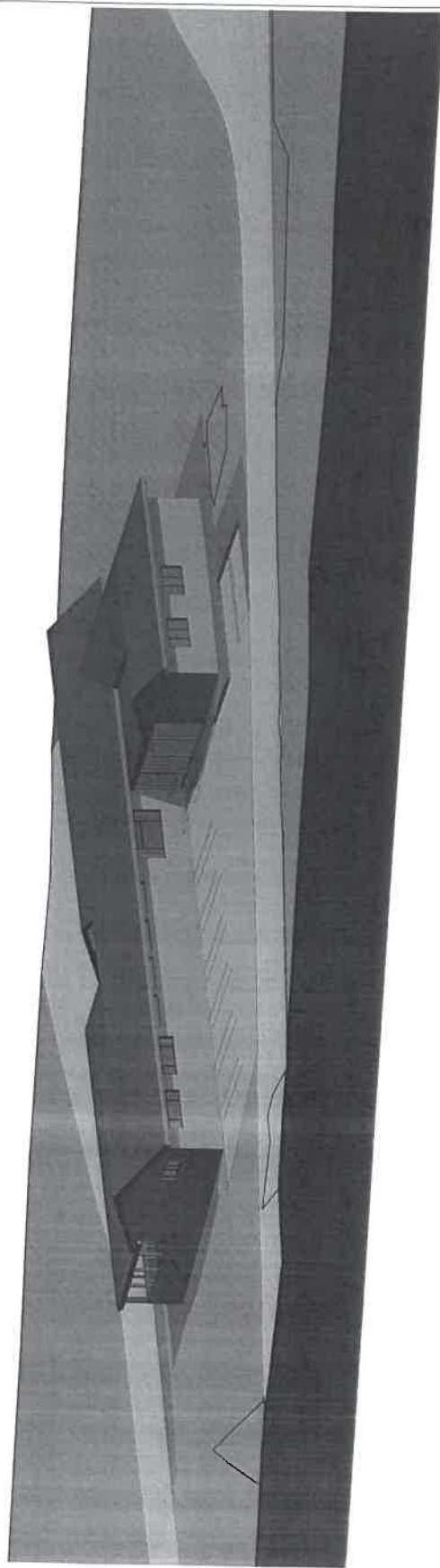


STRAINING POST DETAIL

FENCE DETAIL AND STRAINING POST AT GATE

DETAIL OF STANDARD
SCALE 1:50

AMENDMENTS				CONSULTANT:		CLIENT:	
REV	DATE	APPROVED	DESCRIPTION				
A	20/11/08	BY T.S.	ISSUED FOR APPROVAL	2MC CONSULTING ENGINEERS Postal Address PO BOX 88 UNIT 44 BRADFORD HOUSE 12 BRADFORD ROAD BEDEFORDVIEW 2007		CITY PARKS HOUSE 41 DE KORTEKOP STREET BRAMFONTEIN Tel: +27(0) 11 712 6900 Fax: +27(0) 11 403 4495 www.joburgcityparks.com	
				Project Address PO BOX 183 HEINRICH 1803 BEDEFORDVIEW 2007		POSTAL ADDRESS PO BOX 183 JOHANNESBURG 2000	
				SIGNATURE DATE		SIGNATURE DATE	
				ENGINEERING OPERATIONS		ENGINEERING OPERATIONS	
				CLIENT APPROVAL		PROJECT APPROVAL	
				PROJECT MANAGER		ENGINEERING MANAGER	
				SIGNATURE DATE		SIGNATURE DATE	
				PROJECT TEAM		PROJECT MANAGER	
				DATE SCALE AS SHOWN		DATE SCALE AS SHOWN	
				PROJECT TEAM		PROJECT MANAGER	
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				DATE SCALE AS SHOWN		DATE SCALE AS SHOWN	
				PROJECT TEAM		PROJECT MAN	



ALL MATERIALS AND WORKSMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT EDITIONS OF THE FOLLOWING STANDARDS:

- ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS OTHERWISE SPECIFIED.
- ALL DIMENSIONS MUST BE CHECKED AND APPROVED ON SITE.
- ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD CODE OF PRACTICE FOR MUNICIPAL CIVIL ENGINEERING WORKS, PUBLISHED IN 1993 AND THE STANDARD CODE DETAIL DRAWINGS.
- THE STANDARD DRAWINGS MUST BE READ IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS OF APPROPRIATE AGENCIES.

Work not authorized: Work not authorized includes professional, design, construction, inspection, testing, or other services not provided by the drawings in a specific project. The use of the drawings for any other purpose, such as for design or construction of equipment or components, will render the user liable for any and all consequences resulting from such use. The user assumes all liability for any and all consequences resulting from such use.

LEGEND:

PROPOSED:	EXISTING:
STORMWATER LINE	MANHOLE
KERB INLET	ROAD CENTERLINE
ROAD	FENCE
GRID INLET	STORMWATER CONNECTION POINT

CONCL. /
DRAWING

REV No	DATE	DESCRIPTION
		SIZE ON ORIGINAL DRAWING: 1/4" = 1'-0"

[illegible]

NOTES

ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT GAS REGULATIONS.

ALL DIMENSIONS ARE IN MILLIMETRES. (UNLESS NOTED OTHERWISE)

DO NOT SCALE FROM DRAWINGS.

ALL DIMENSIONS MUST BE CHECKED AND APPROVED ON SITE.

ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING, THIRD EDITION 2005 AND THE STANDARD DETAIL BOOK.

THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH THE STANDARD DRAWINGS (IF APPLICABLE).

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LEGEND:	
PROPOSED:	EXISTING:
●	○
■	□
STORMWATER LINE	
MAN-HOLE	
KURB INLET	
ROAD CENTERLINE	
ROAD	
FENCE	
GRID INLET	■
STORMWATER CONNECTION POINT	●

PROJECT STATUS

APPROVED AS BUILT
CONSTRUCTION DRAWING

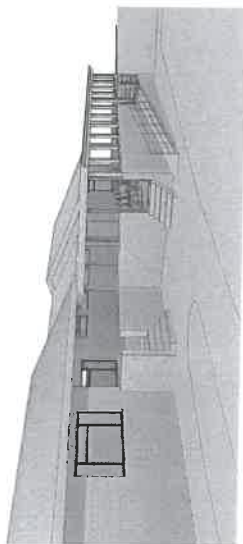
EST No	DATE:	DESCRIPTION:
REVISIONS		
SIZE ON ORIGINAL DRAWING 100 mm		

Avalon Cemetry Admin Block PROPOSED DESIGN STAGE 02 PROPOSAL ARCHITECTURE	DATE: 10/11/2017 PROJECT: AVALON CEMETERY LOCATION: AVALON CEMETERY SCALE: 1/8" = 1'-0" BY: [Signature]
---	--

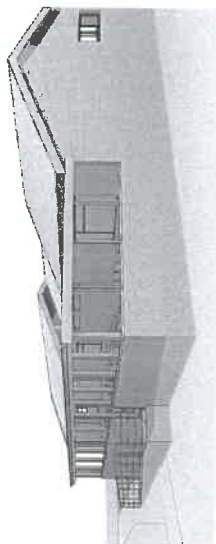
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OUTLINE

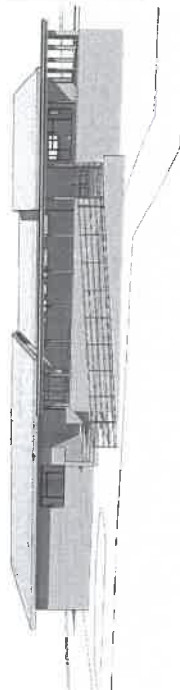
NO	CAD	DRAWING NUMBER	REVISION	
1		A103		02



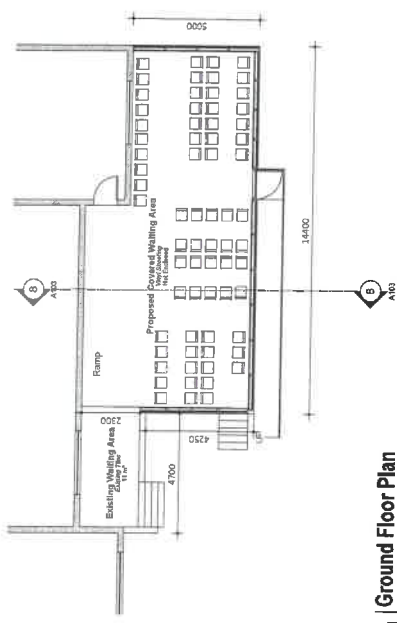
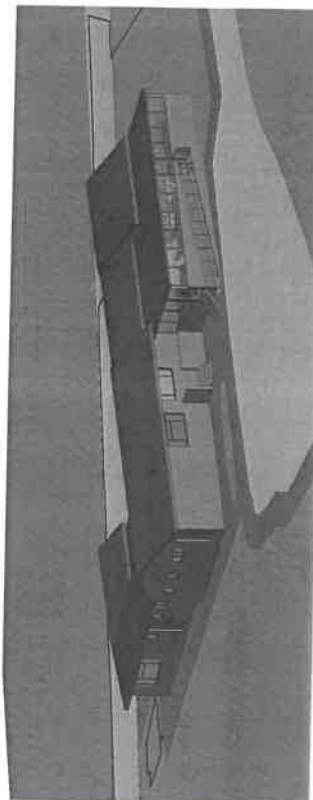
5 | 3D View 1



6 | 3D View 2



3D View 3



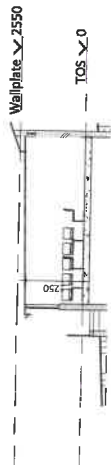
Ground Floor Plan
1 - 100



West Elevation
1:100



4 **South Elevation**
1 : 100



Section 4
8 | **1 : 100**

