GENERAL

- 1. ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION AND ANY OTHER WRITTEN INSTRUCTIONS ISSUED.
- 2. WHERE APPROVAL IS REQUIRED. THIS SHALL BE OF THE SUPERINTENDENT OR HIS REPRESENTATIVE.
- 3. ANY AMBIGUITY OR DISCREPANCY SHALL BE REFERRED FOR CLARIFICATION BEFORE WORK PROCEEDS.
- 2. DIMENSIONS ARE PRESENTED IN MILLIMETERS WITH EQUIVALENT FOOT/INCH VALUE SHOWN IN BRACKETS.
- 3. REFER TO THE DRAWING DIMENSIONS FOR SETTING OUT THE WORKS. HOWEVER. ALL EXISTING DIMENSIONS AND LEVELS ARE APPROXIMATE AND SHALL BE CONFIRMED BY THE CONTRACTOR ON SITE.
- UNLESS NOTED OTHERWISE, ALL LEVELS ARE IN METRES [m].

EXAMPLE: 1000mm [3'-3 \(\) "

- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STABILITY OF THE STRUCTURE UNTIL ITS COMPLETION AND SHALL ENSURE THAT NO PART OF THE STRUCTURE IS OVERSTRESSED DURING THE WORKS.
- 6. WHERE STANDARDS ARE REFERRED TO, THEY SHALL BE THE LATEST EDITION.
- 7. PROPRIETARY ITEMS, PROPOSED BY THE CONTRACTOR, ARE TO BE REVIEWED AND APPROVED BY THE DESIGNING ENGINEER PRIOR TO USE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING WORK AREAS.
- ALL DEMOLITION SHALL BE IN AN ACCEPTABLE MANNER UNDER THE OCCUPATIONAL HEALTH AND SAFETY REGULATIONS 2009. ALL SURPLUS MATERIAL SHALL BE DISPOSED OF OFF SITE IN A LEGAL MANNER.

CONCRETE

- 1. CONCRETE SHALL COMPLY WITH THE FOLLOWING SPECIFICATION:
- MINIMUM CONCRETE COVER TO REINFORCEMENT CONCRETE SPRAY LAYER

EXTERNAL FACE

= 40mm. $\left[1\frac{1}{2}^{"}\right]$

- MINIMUM CONCRETE STRENGTH AT SERVICE F'c

= 28 MPa [4000PSI] UNDERMINED AREA MASS INFILL

- CONCRETE SPRAY PROTECTIVE LAYER = 20 MPa [3000PSI]
- 2. INTERNAL FACES OF THE UNDERMINED AREA SHALL BE PREPARED TO ALLOW FOR CLEAR FLOW OF CONCRETE TO FILL ALL AREAS AND PREVENT FORMATION OF INTERNAL VOIDS
- 3. ALL FORMWORK, SHORING AND RESHORING SHALL BE THE RESPONSIBILITY OF AND DESIGNED BY THE CONTRACTOR
- 4. CONCRETE MIX DESIGNS TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- 5. NO ADDITIVES TO BE USED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
- 6. CAST IN ITEMS WITH LESS THAN 25mm COVER TO ATMOSPHERE SHALL BE HOT DIPPED GALVANISED IN ACCORDANCE WITH ASTM A153.
- 7. CONCRETE SHALL BE TESTED FOR SLUMP ON SITE. THE TEST CYLINDERS SHALL BE TAKEN FOR 3, 7 AND 28 DAY STRENGTHS.

EXCAVATION AND EARTHWORKS

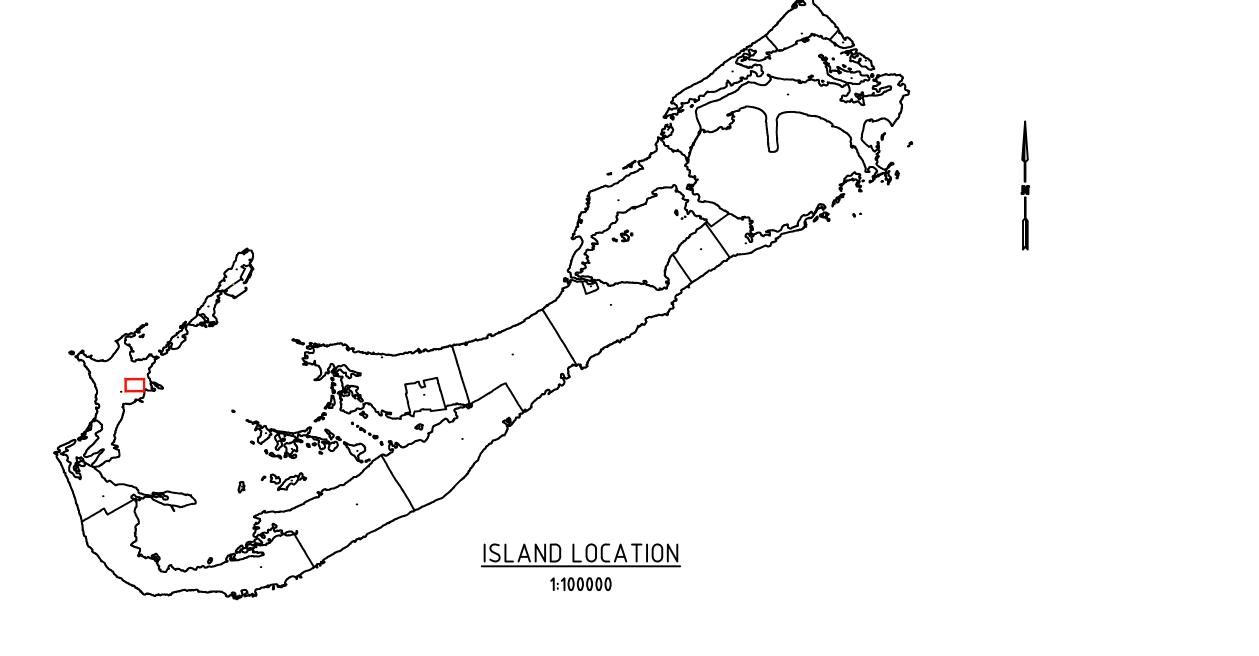
- 1. CONTRACTOR TO TAKE CARE IN EXCAVATION OF ROCK FACE AND IN GENERAL TO NOT CAUSE ADDITIONAL ROCK COLLAPSE
- 2. EXCAVATION BEHIND EXISTING BLOCKWORK WALL TO BE CARRIED OUT BY HAND AND/OR LIGHT TOOLS
- 3. ALL SHORING, SHEETING AND DE-WATERING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
- 4. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL EXISTING AND SURROUNDING INFRASTRUCTURE
- 9. ANY SOFT AREAS IN ROCK FACE ARE TO BE SCOURED AND REMOVED. TO BE FILLED WITH SPRAY CONCRETE OF MINIMUM STRENGTH 20 MPa.
- 10. EXISTING VEGETATION WITHIN THE EXTENTS OF THE WORKS ARE TO BE REMOVED BY CUT-STUMP METHOD AND TREATED WITH SYSTEMIC HERBICIDE
- 11. IF UNEXPECTED MECHANICAL, ELECTRICAL OR STRUCTURAL ELEMENTS ARE ENCOUNTERED, THE CONTRACTOR SHALL SUBMIT DETAILS OF SUCH TO THE ENGINEER.

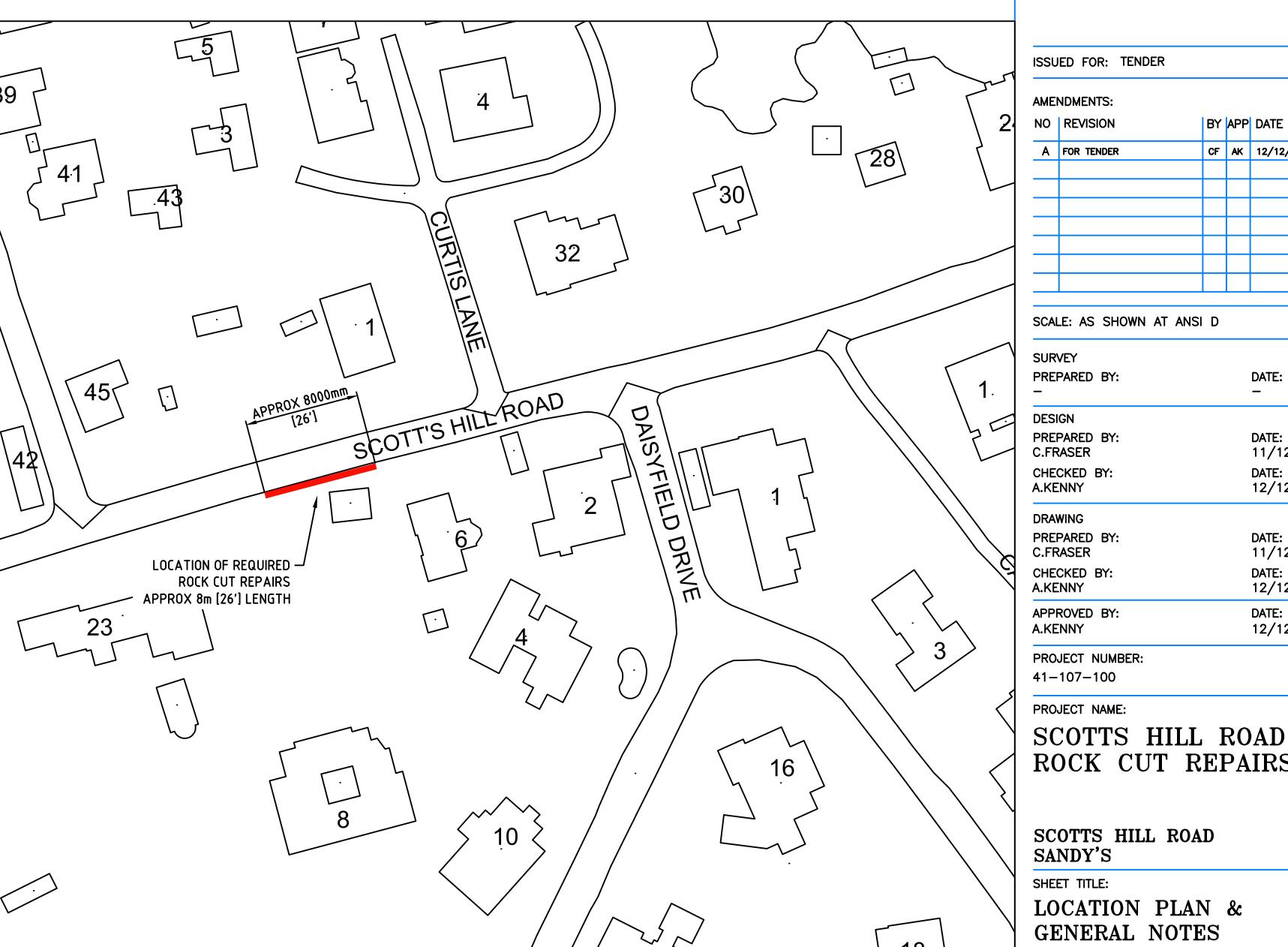
REINFORCEMENT

- 1. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS. IF SHOWN/PERMITTED, WELDS SHALL DEVELOP THE FULL STRENGTH OF THE REINFORCING ELEMENT.
- 2. ALL REINFORCING STEEL TO HAVE A MINIMUM YIELD STRENGTH OF 410 MPa AND SHALL BE TYPE 2 DEFORMED BARS
- 3. ALL REINFORCING STEEL SHALL BE CLASS II GALVANISED IN ACCORDANCE WITH ASTM A767. TIE WIRE SHALL ALSO BE GALVANISED.
- 4. REINFORCEMENT SPACING NOT SHOWN SHALL BE TAKEN AS EQUAL.
- 5. REINFORCING CHAIRS ARE TO BE CONCRETE AND AS SMALL AS PRACTICABLE. PROPRIETARY PLASTIC COVER SUPPORTS MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
- 6. REINFORCING BARS SHOWN ON THESE DRAWINGS ARE DIAGRAMMATIC ONLY.
- 7. BARS SHOWN MAY REPRESENT MORE THAN ONE LENGTH AND/OR PROFILE.
- 8. BARS MAY NOT BE SHOWN IN TRUE POSITION FOR CLARITY. ALL HOOKS, BENDS AND COGS ARE STANDARD AND SHALL BE IN ACCORDANCE WITH ACI 318 UNLESS NOTED OTHERWISE.
- 9. LAP SPLICES TO ALTERNATE AND NO MORE THAN 50% OF SPLICES SHALL BE IN ANY ONE SECTION.
- 10. BARS SHALL NOT BE CUT NOR BENT ON SITE WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
- 11. BARS SHALL BE BENT COLD BY MACHINE OR OTHER APPROVED MEANS PRODUCING A GRADUAL AND EVEN MOTION. BARS INCORRECTLY BENT SHALL NOT BE RE-BENT AND INCORPORATED IN THE WORKS AND NO REINFORCEMENT SHALL BE BENT WHEN IN POSITION IN THE WORKS, WHETHER OR NOT IT IS PARTIALLY EMBEDDED IN HARDENED CONCRETE.
- 12. CONTRACTOR TO PROVIDE 24 HOURS NOTICE FOR THE INSPECTION OF ALL REINFORCING PRIOR TO POURING CONCRETE.
- 10. LAP LENGTHS SHALL BE AS TABULATED (SHOWN BELOW) UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

MINIMUM ALLOWABLE LAP LENGTHS				
BAR DIAMETER	MIN LAP LENGTH			
T10	460mm [18"]			
T12	600mm [24"] 760mm [30"] 900mm [36"]			
T16				
T20				
T25	1500mm [60"]			

ALTERNATIVE BAR SIZES					
METRIC BAR SIZE (mm)	IMPERIAL EQUIVALENT (")	FORMER IMPERIAL DESIGNATION			
T10	3/8"	#3			
T12	1/2"	#4			
T16	5/8"	#5			
T20	3/4"	#6			
T25	1"	#8			
T 25	1"	#8			





LOCATION PLAN

1:500

THE MINISTRY OF PUBLIC WORKS

P.O. Box HM525 Hamilton HMCX Bermuda Phone: (441) 295-5151

DEPARTMENT OF WORKS AND ENGINEERING

Fax: (441) 295-5658

AME	NDMENTS:			
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A.KENNY				12/12/2
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C.FRASER CHECKED BY:				DATE:
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ROCK CUT REPAIRS

SCOTTS HILL ROAD

LOCATION PLAN &

REVISION

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GENERAL NOTES

SANDY'S

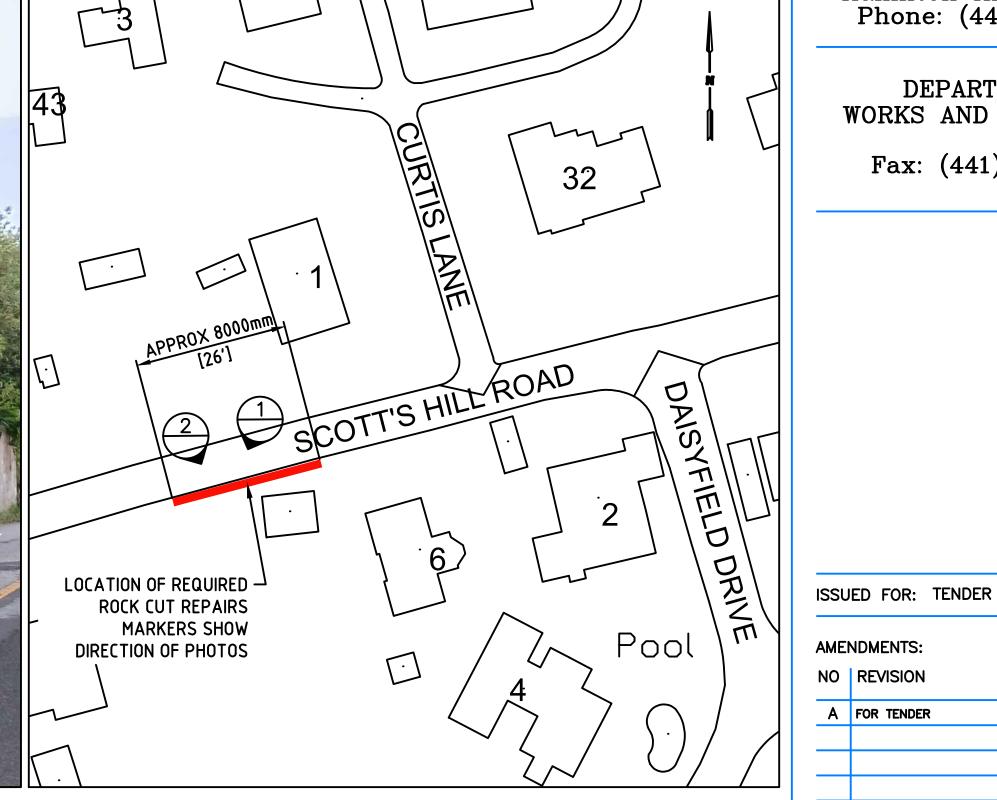
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SCALE 1:500 AT ORIGINAL SIZE





LOCATION PLAN



SCALE 1:500 AT ORIGINAL SIZE

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SCOTTS HILL ROAD SANDY'S

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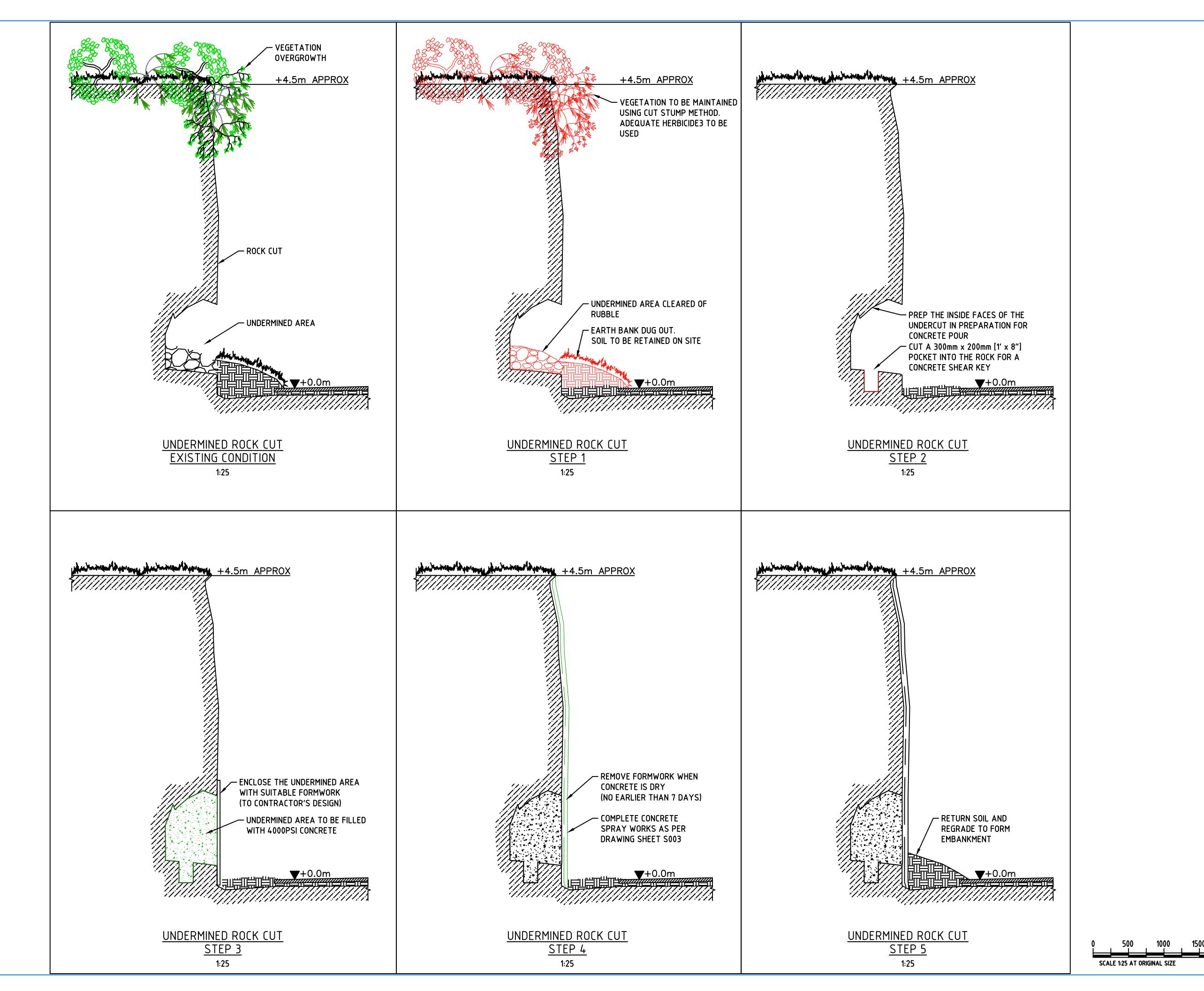
PROJECT NUMBER:

SITE DESCRIPTION

REVISION SHEET NUMBER: S001

SCOTTS HILL ROAD ROCK CUT REPAIRS

FIGURE 2



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DESIGN PREPARED BY:

C.FRASER CHECKED BY:

DRAWING

A.KENNY

PREPARED BY: C.FRASER CHECKED BY:

APPROVED BY: A.KENNY

A.KENNY

PROJECT NUMBER: 41-107-100

PROJECT NAME:

SCOTTS HILL ROAD ROCK CUT REPAIRS

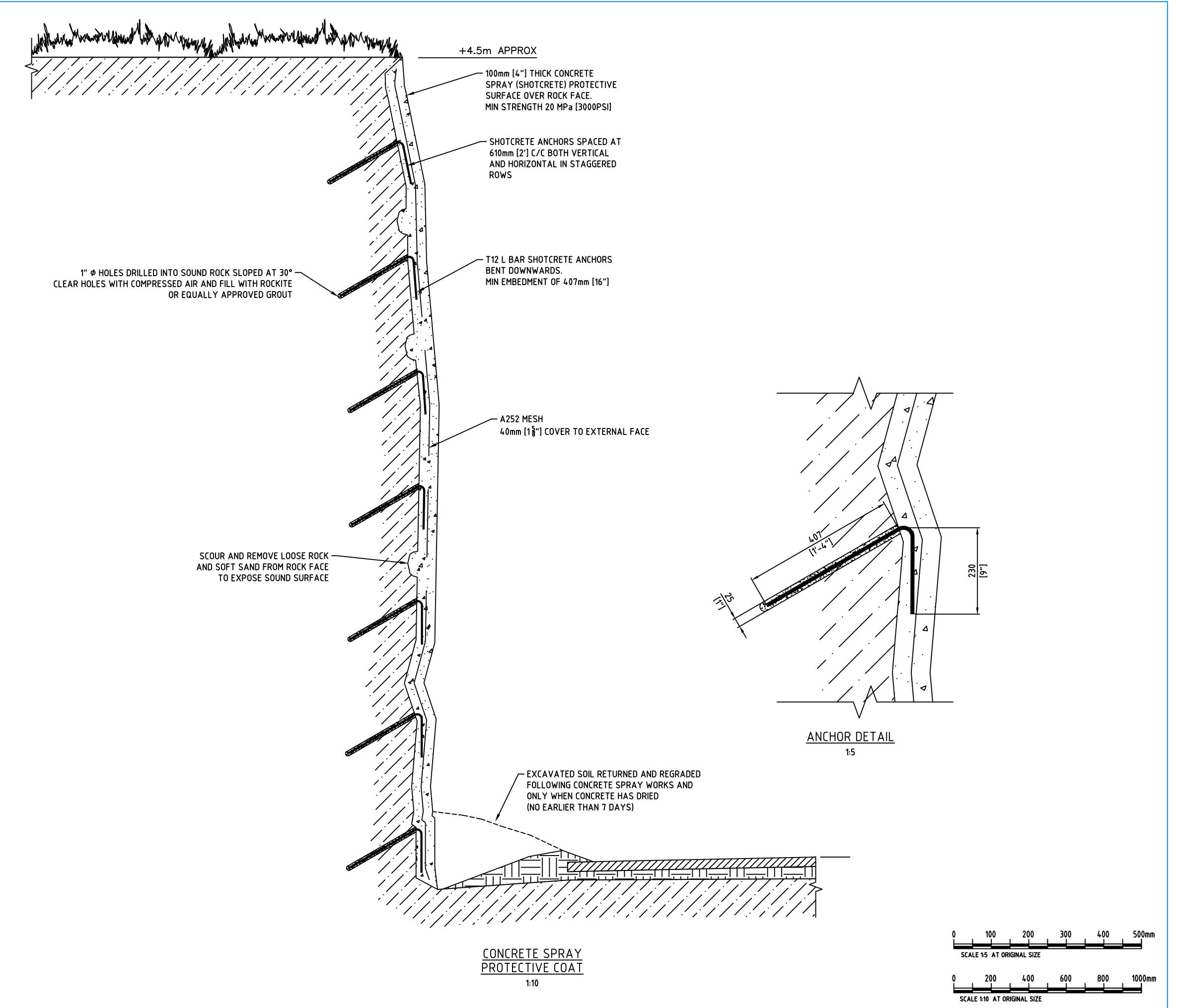
SCOTTS HILL ROAD SANDY'S

SHEET TITLE:

CONSTRUCTION SEQUENCE

SHEET NUMBER: S002

REVISION



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ISSUED FOR: TENDER

AMENDMENTS:

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SURVEY PREPARED BY:

DESIGN

PREPARED BY: C.FRASER

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DATE: 12/12/23

DRAWING

PREPARED BY: C.FRASER

CHECKED BY: A.KENNY

APPROVED BY: A.KENNY

PROJECT NUMBER: 41-107-100

PROJECT NAME:

SCOTTS HILL ROAD ROCK CUT REPAIRS

SCOTTS HILL ROAD SANDY'S

SHEET TITLE:

CONCRETE SPRAY STRENGTHENING WORKS

SHEET NUMBER:

REVISION \mathbf{A}

S003