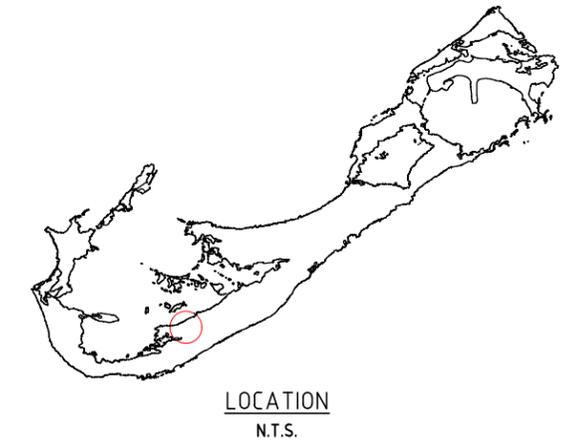


# RETAINING WALL

## 35 BURNT HOUSE HILL

### WARWICK

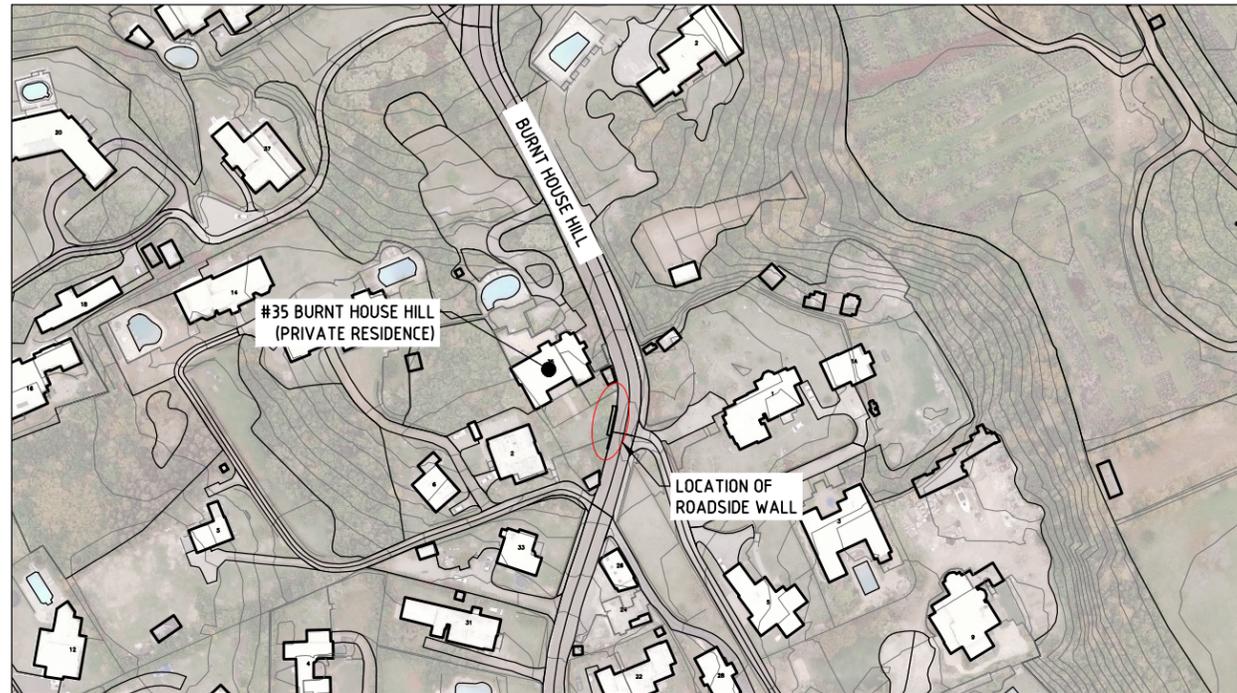
#### 41-49-120



THE MINISTRY OF  
PUBLIC WORKS  
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Hamilton HMCX Bermuda  
Phone: (441) 295-5151

DEPARTMENT OF  
WORKS AND ENGINEERING  
Fax: (441) 295-5658

- GENERAL NOTES:
1. SURVEY GRID IS BNG2000
  2. LEVELS ARE IN METERS ABOVE ORDINANCE DATUM



LOCATION PLAN  
1:1000

#### 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 MPW&E ENGINEER OR HIS REPRESENTATIVE.
3. ANY AMBIGUITY OR DISCREPANCY SHALL BE REFERRED FOR CLARIFICATION BEFORE WORK PROCEEDS.
4. 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.
5. DIMENSIONS ARE IN PRESENTED MILLIMETERS WITH EQUIVALENT FOOT/INCH VALUE SHOWN IN BRACKETS. EXAMPLE: 1000mm [3'-3 3/8"]
6. UNLESS NOTED OTHERWISE, ALL LEVELS ARE TO OD. SET OUT IS TO BNG 2000.
7. 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.
8. WHERE STANDARDS ARE REFERRED TO, THEY SHALL BE THE LATEST EDITION.
9. WHERE PROPRIETARY ITEMS ARE REQUIRED, THEY SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. WHERE NO SPECIFIC TYPE IS SPECIFIED, ANY SYSTEM SHALL BE APPROVED BEFORE USE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING WORK AREAS.
11. 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.

#### EXCAVATION AND EARTHWORKS

1. FOUNDATIONS ARE TO BEAR ON UNDISTURBED AND SOUND GROUND/ROCK. BEARING MATERIAL IS TO REMAIN UNDISTURBED AND BE REVIEWED BY THE ENGINEER PRIOR TO POURING FOOTING.
2. ALL SHORING, SHEETING AND DE-WATERING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
3. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL EXISTING AND SURROUNDING INFRASTRUCTURE
4. ANY SOFT AREAS IN BEARING MATERIAL ARE TO BE REMOVED AND FILLED WITH MASS CONCRETE OF MINIMUM STRENGTH 25 MPa.
5. NO BACKFILLING UNTIL 7 DAYS AFTER LAST CONCRETE POUR
6. BACKFILL MATERIAL SHALL BE FREE FROM ORGANIC MATTER, CONSTRUCTION DEBRIS AND LARGE ROCKS.
7. BACKFILL MATERIAL SHALL BE WELL GRADED AND PLACED IN LAYERS NOT EXCEEDING 150mm [6"]
8. BACKFILL MATERIAL TO BE COMPACTED EVERY 600mm [2']
9. EXISTING VEGETATION ROOTS WITHIN THE EXTENTS OF THE NEW RETAINING WALL TO BE CUT/REMOVED AND TREATED WITH ROOT KILLER
10. IF UNEXPECTED MECHANICAL, ELECTRICAL OR STRUCTURAL ELEMENTS ARE ENCOUNTERED, THE CONTRACTOR SHALL SUBMIT DETAILS OF SUCH TO THE ENGINEER.
11. THE CONTRACTOR SHALL LOCATE AND IDENTIFY EXISTING UNDERGROUND UTILITIES WITHIN THE SITE EXTENTS. IF UTILITIES ARE TO REMAIN, THE CONTRACTOR SHALL ENSURE THAT THE UTILITIES ARE SUPPORTED AND PROTECTED THROUGHOUT THE WORKS.

#### CONCRETE

1. CONCRETE SHALL COMPLY WITH THE FOLLOWING SPECIFICATION:
  - MINIMUM CONCRETE COVER TO REINFORCEMENT FOOTINGS
    - TOP = 50mm.
    - BOTTOM = 75mm
  - MINIMUM CONCRETE STRENGTH AT SERVICE F'c = 25 MPa
  - MINIMUM CEMENT CONTENT = 440 Kg/m<sup>3</sup>
  - MAXIMUM WATER/CEMENT RATIO = 0.4
2. CONCRETE MIX DESIGNS TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
3. NO ADDITIVES TO BE USED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
4. CAST IN ITEMS WITH LESS THAN 25mm COVER TO ATMOSPHERE SHALL BE HOT DIPPED GALVANISED IN ACCORDANCE WITH ASTM A153.
5. ALL FORMWORK, SHORING AND RESHORING SHALL BE THE RESPONSIBILITY OF AND DESIGNED BY THE CONTRACTOR
6. CONCRETE STRENGTH AND SLUMP TO BE AS FOLLOWS

MIN. SPECIFIED 28 DAY STRENGTH	SLUMP
25 MPa [3600PSI]	75mm ± 25mm [3" ± 1"]

#### 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.
13. 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"]
T16	760mm [30"]
T20	900mm [36"]
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

ISSUED FOR: INFORMATION

AMENDMENTS:		
NO:	REVISION	DATE:
A	FOR INFORMATION	06/01/26
B	FOR TENDER	10/02/26

SCALE: AS SHOWN AT ANSI D

SURVEY	
PREPARED: -	DATE: -
DESIGN	
PREPARED: -	DATE: -
CHECKED: -	DATE: -
DRAWING	
PREPARED: A.KENNY	DATE: 06/01/2026
CHECKED: -	DATE: -

APPROVED BY:  
A.KENNY

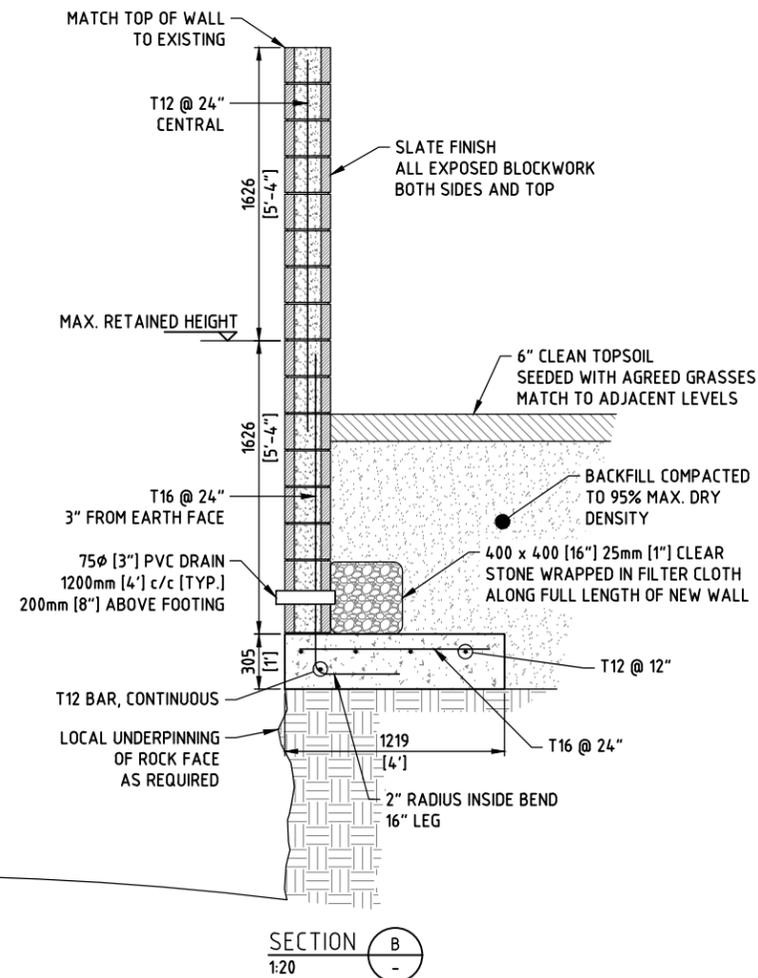
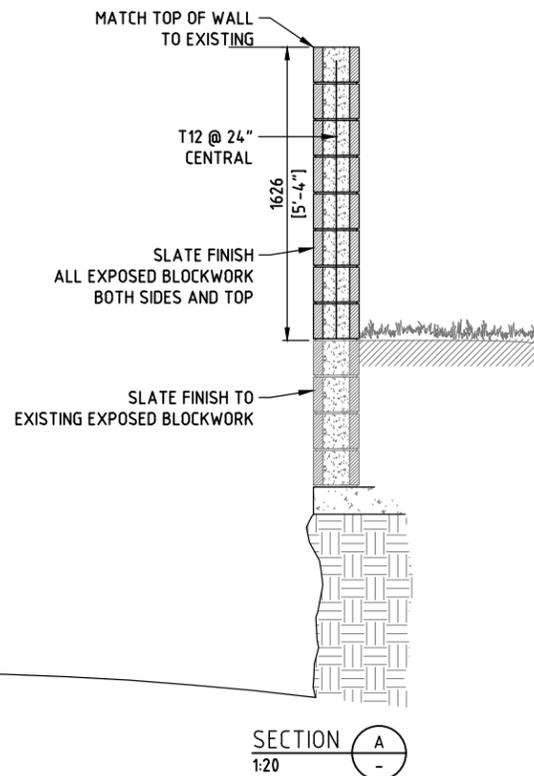
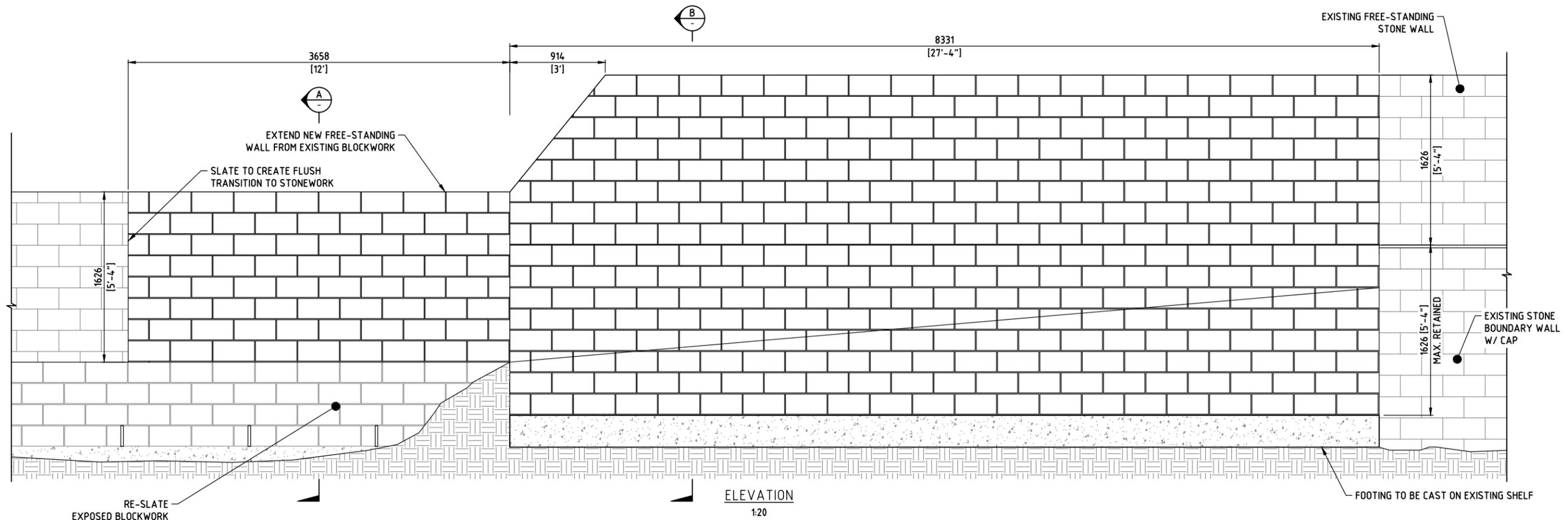
PROJECT NUMBER:  
41-49-120

PROJECT NAME:  
**RETAINING WALL 35  
BURNT HOUSE HILL**

35 BURNT HOUSE HILL  
WARWICK-PARISH  
SHEET TITLE:  
**TITLE SHEET AND GENERAL  
NOTES**

SHEET NUMBER: **S001** REVISION: **B**

- GENERAL NOTES:  
1. SURVEY GRID IS BNG2000  
2. LEVELS ARE IN METERS  
ABOVE ORDINANCE DATUM



ISSUED FOR: INFORMATION

AMENDMENTS:	NO:	REVISION	DATE:
A	FOR INFORMATION		06/01/26
B	FOR TENDER		10/02/26

SCALE: AS SHOWN AT ANSI D

SURVEY	PREPARED: -	DATE: -
DESIGN	PREPARED: -	DATE: -
CHECKED: -	CHECKED: -	DATE: -
DRAWING	PREPARED: A.KENNY	DATE: 06/01/2026
CHECKED: -	CHECKED: -	DATE: -

APPROVED BY:  
A.KENNY

PROJECT NUMBER:  
41-49-12

PROJECT NAME:  
**RETAINING WALL 35  
BURNT HOUSE HILL**

35 BURNT HOUSE HILL  
WARWICK-PARISH

SHEET TITLE:  
**ELEVATION AND SECTIONS**

SHEET NUMBER:  
**S002**

REVISION  
**B**

