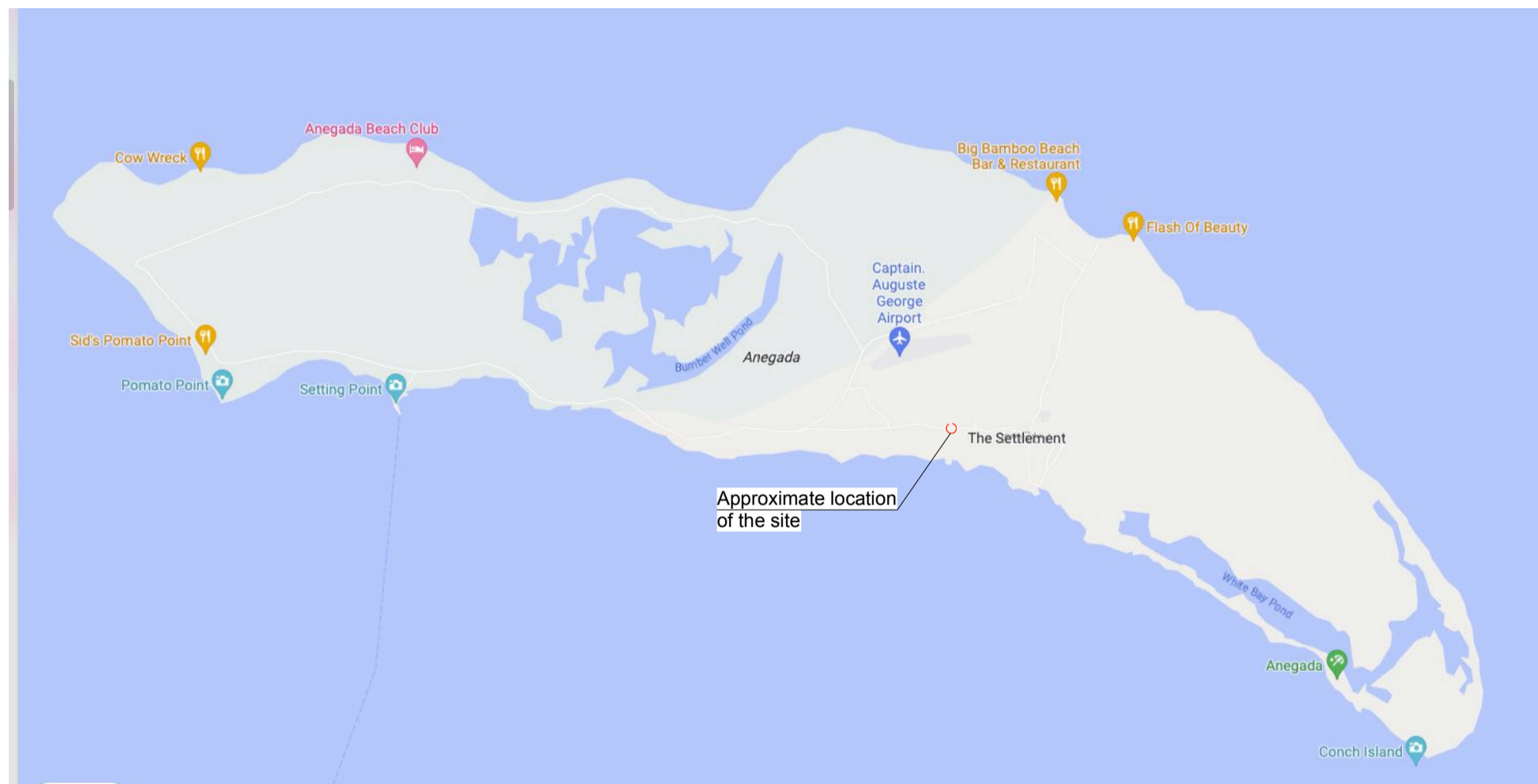
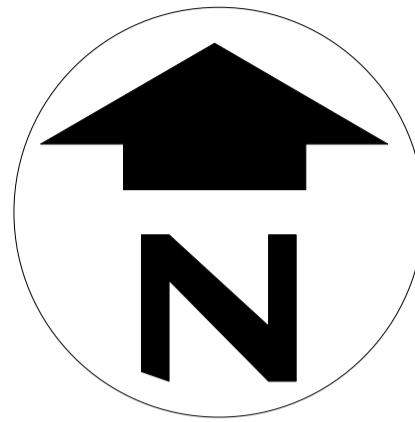


Proposed Building For B.V.I Electricity Anegada, B.V.I



1 Location
Scale: 3/16" = 1'-0"

Section: Anegada
Location: Anegada
Sheet No#: 6070B
Parcel No#: 129
Area: 4.939



2 LOCATION
Scale: 3/32" = 1'-0"

Drawings list

- A100- Location plan
- A101- Site plan
- A102- Foundation
- A103- Switchguard Plan
- A104- Switchguard roof framing
- A105- Section AA/Elevation
- E100- Switchguard Electrical plan
- P100- Switchguard Plumbing plan
- S100- Switchguard slab plan
- S101- Details
- S102- Details
- S103- General notes

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Roadtown
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Tel. 441-6551

Project:
Proposed Building For
B.V.I Electricity,
Anegada, B.V.I

Description

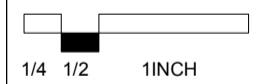
DEVELOPER

ENGINEER

STAMP

REVISIONS	DATE

SCALE: AS NOTED

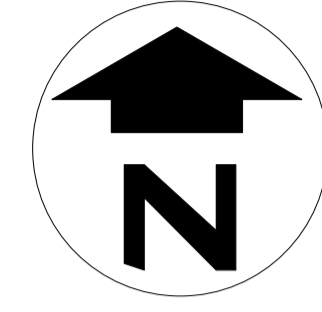
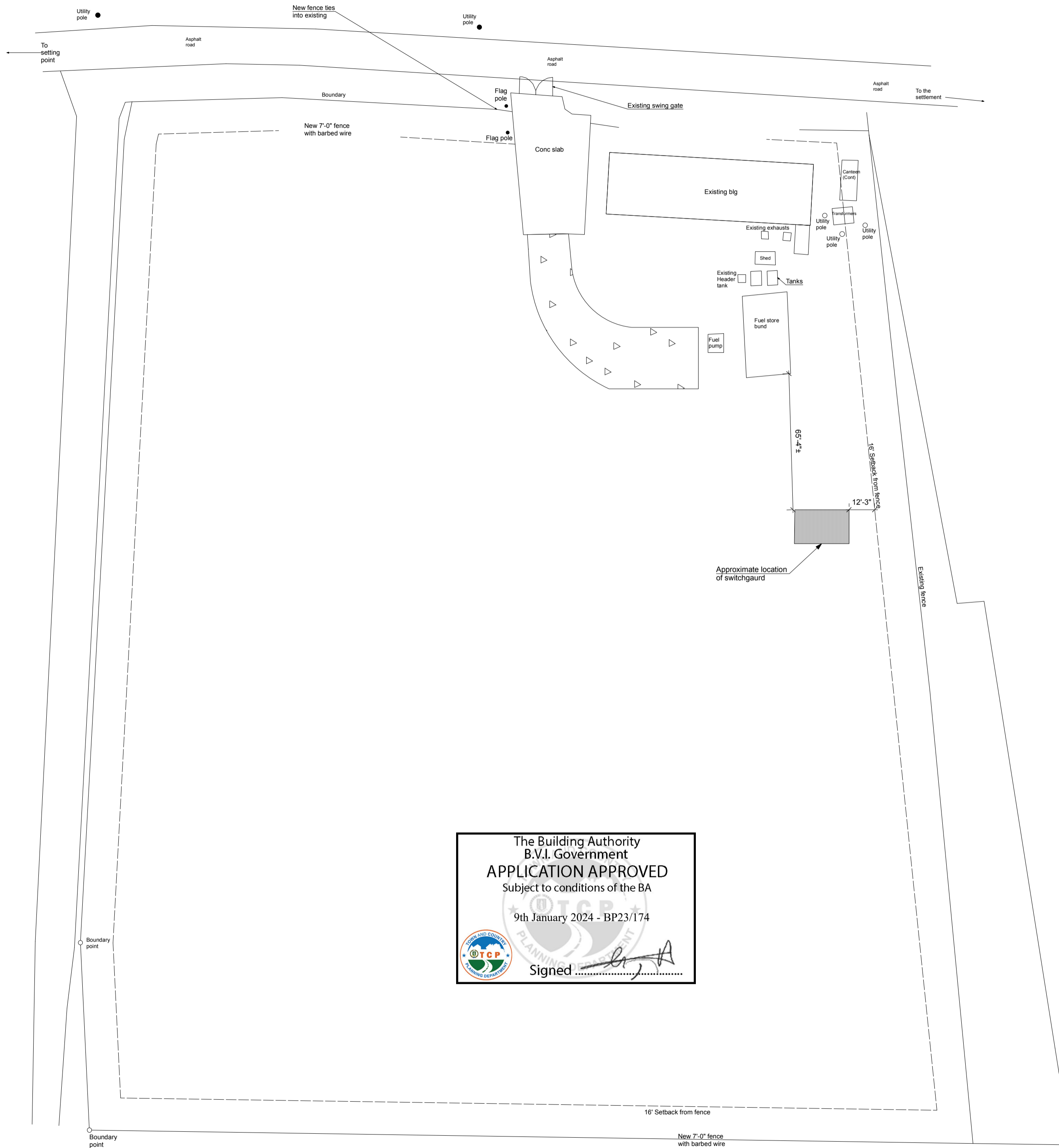


FILE NO: 1703

Date: 4 Jul 2023

SHEET NAME:

Sheet No.	A100
Design By	
Drawn By	C. Cooper
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Description

DEVELOPER

ENGINEER

STAMP

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SCALE : AS NOTED
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FILE NO: 1703

Date: 4 Jul 2023

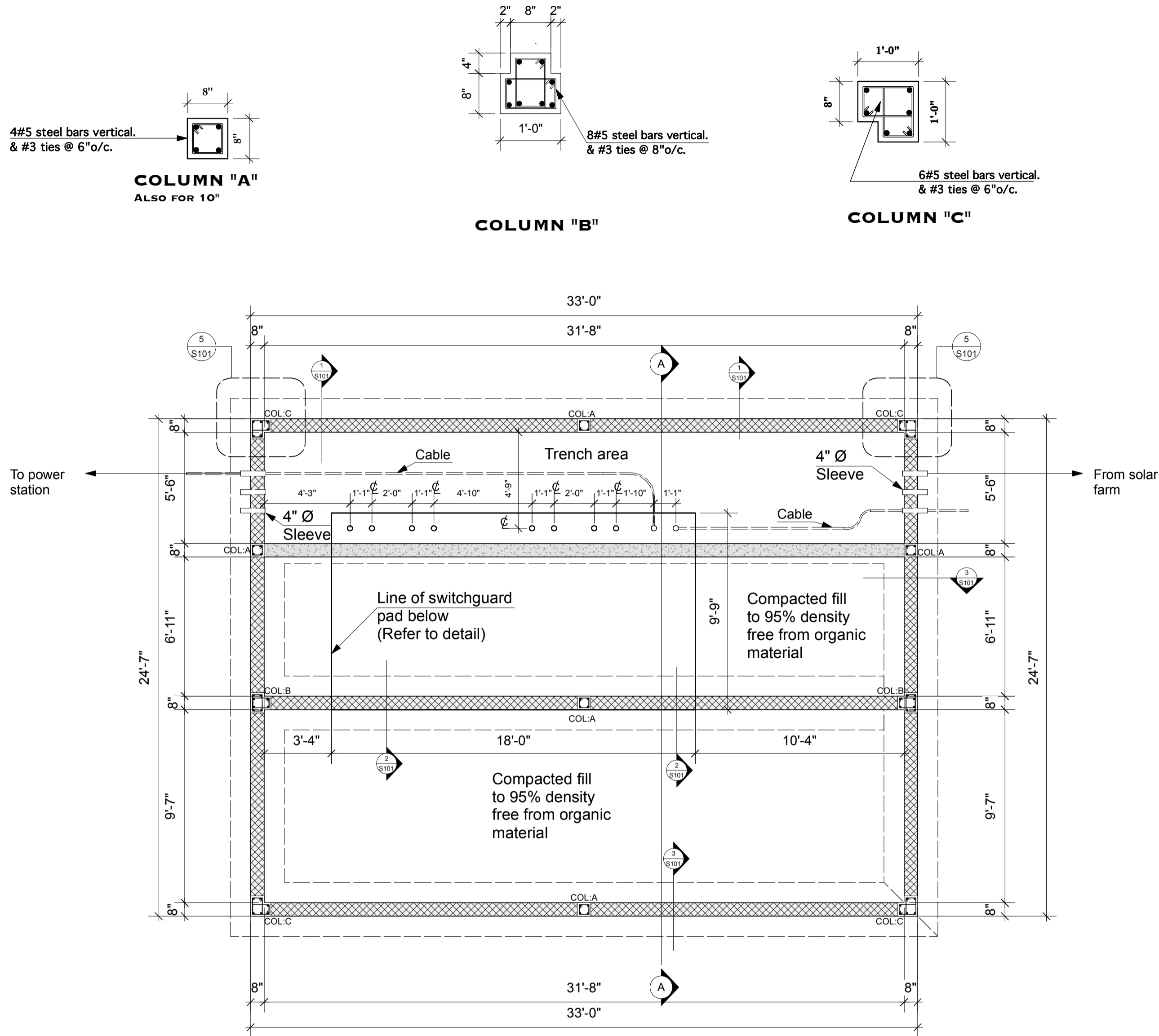
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Drawn By	C. Cooper
Date	
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B.V.I. Government
APPLICATION APPROVED
Subject to conditions of the BA
9th January 2024 - BP23/174

Signed _____

SITE PLAN



4 SWITCHGUARD FOUNDATION
Scale: 1/4" = 1'-0"

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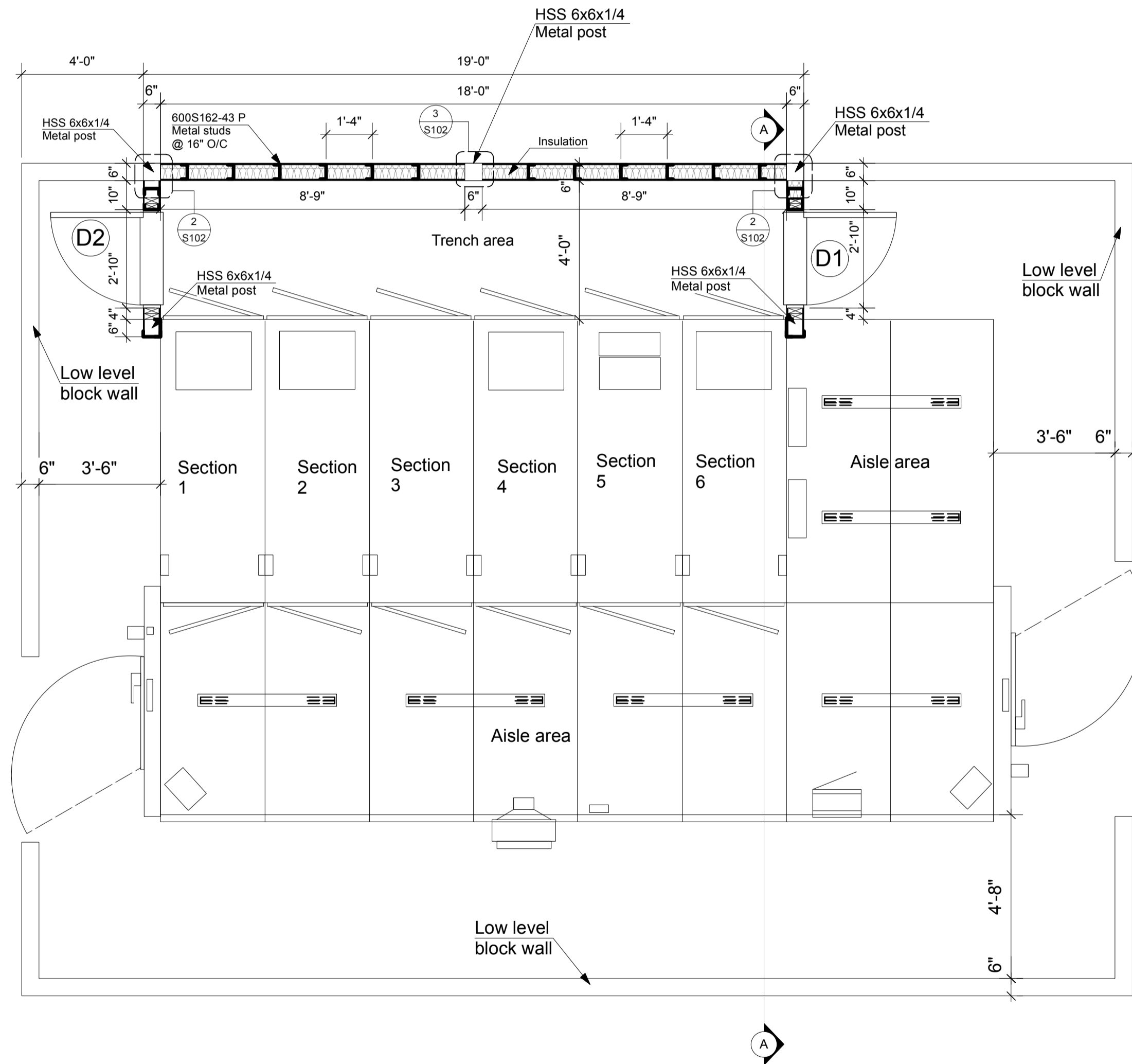
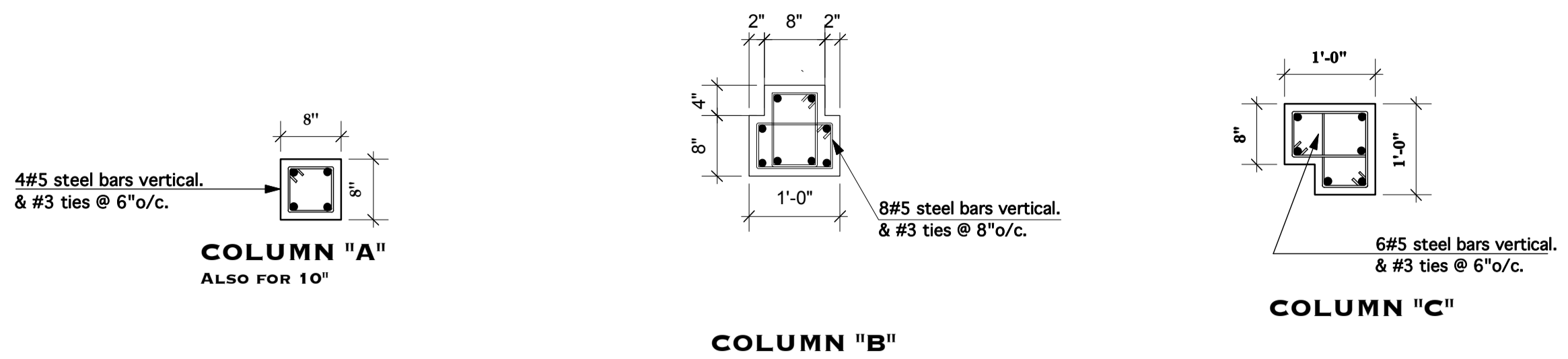
Project:
**Proposed Building For
B.V.I Electricity,
Anegada, B.V.I**

Description

REVISIONS	DATE

SCALE: AS NOTED

FILE NO:	1724
Date:	4 Jul 2023
SHEET NAME:	
Sheet No.	A102
Design By	
Drawn By	C. Cooper
Date	
Scale	as shown



5 **SWITCHGUARD PLAN**
Scale: 3/8" = 1'-0"

Project:
**Proposed Building For
B.V.I Electricity,
Anegada, B.V.I**

Description

REVISIONS	DATE

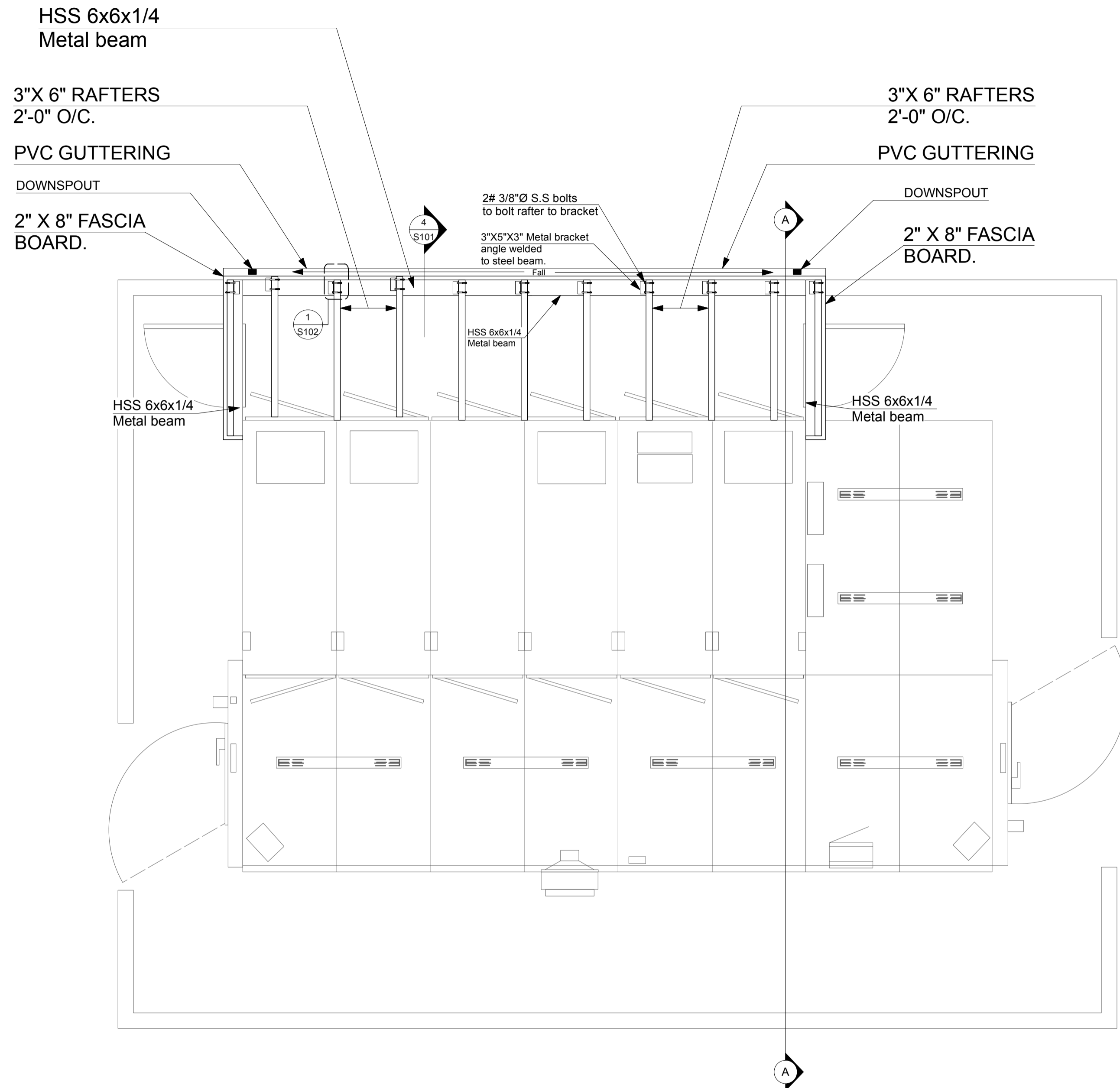
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FILE NO: 1724
Date: 4 Jul 2023

SHEET NAME:

Sheet No.	A103
Design By	
Drawn By	C. Cooper
Date	
Scale	as shown



6 SWITCHGUARD ROOF FRAMING PLAN
Scale: 3/8" = 1'-0"

The Building Authority
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Subject to conditions of the BA
9th January 2024 - BP23/174
Signed *[Signature]*

Project:
**Proposed Building For
B.V.I Electricity,
Anegada, B.V.I**

Description

REVISIONS	DATE

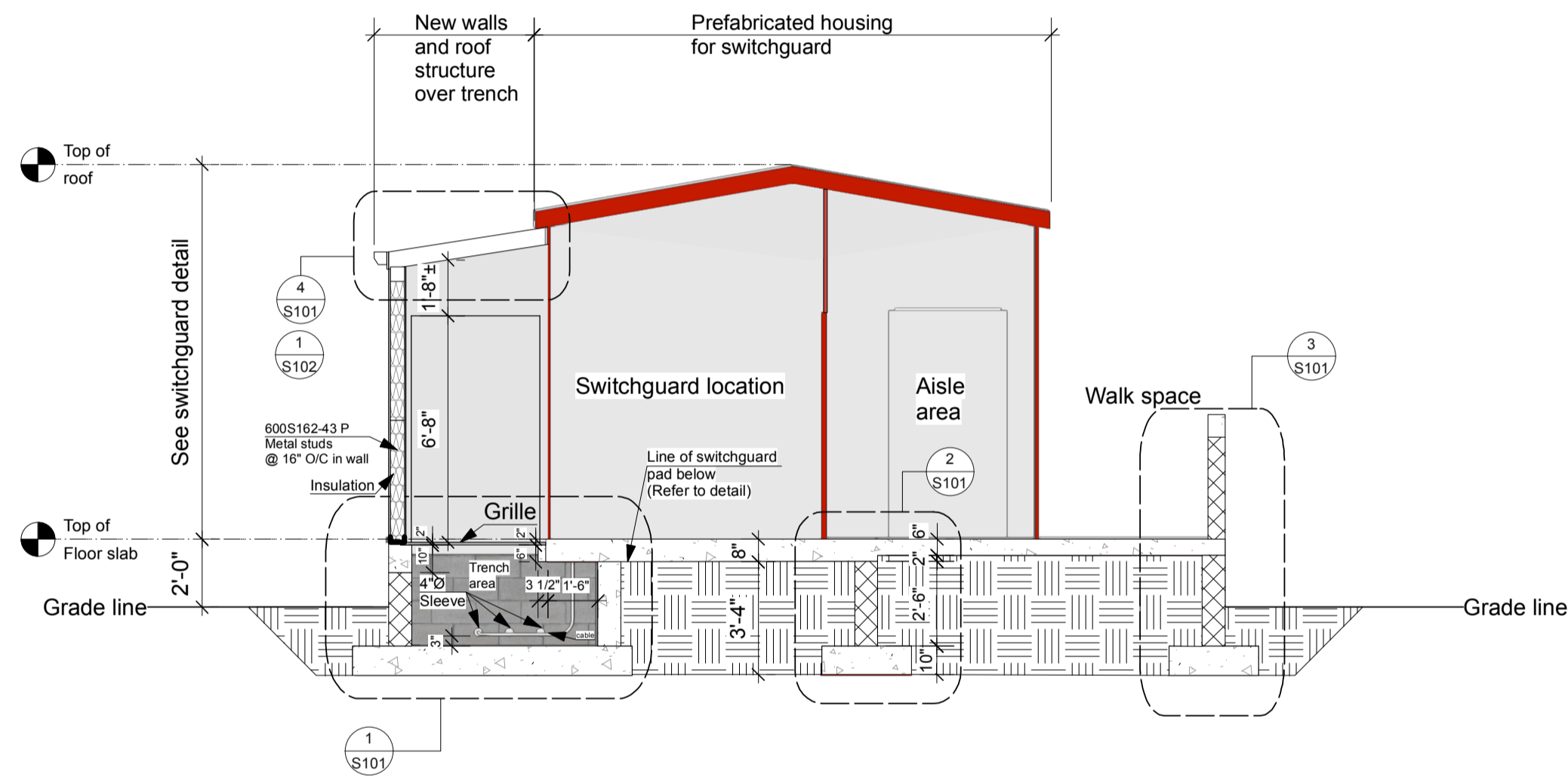
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Date: 4 Jul 2023
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Drawn By	C. Cooper
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Scale	as shown

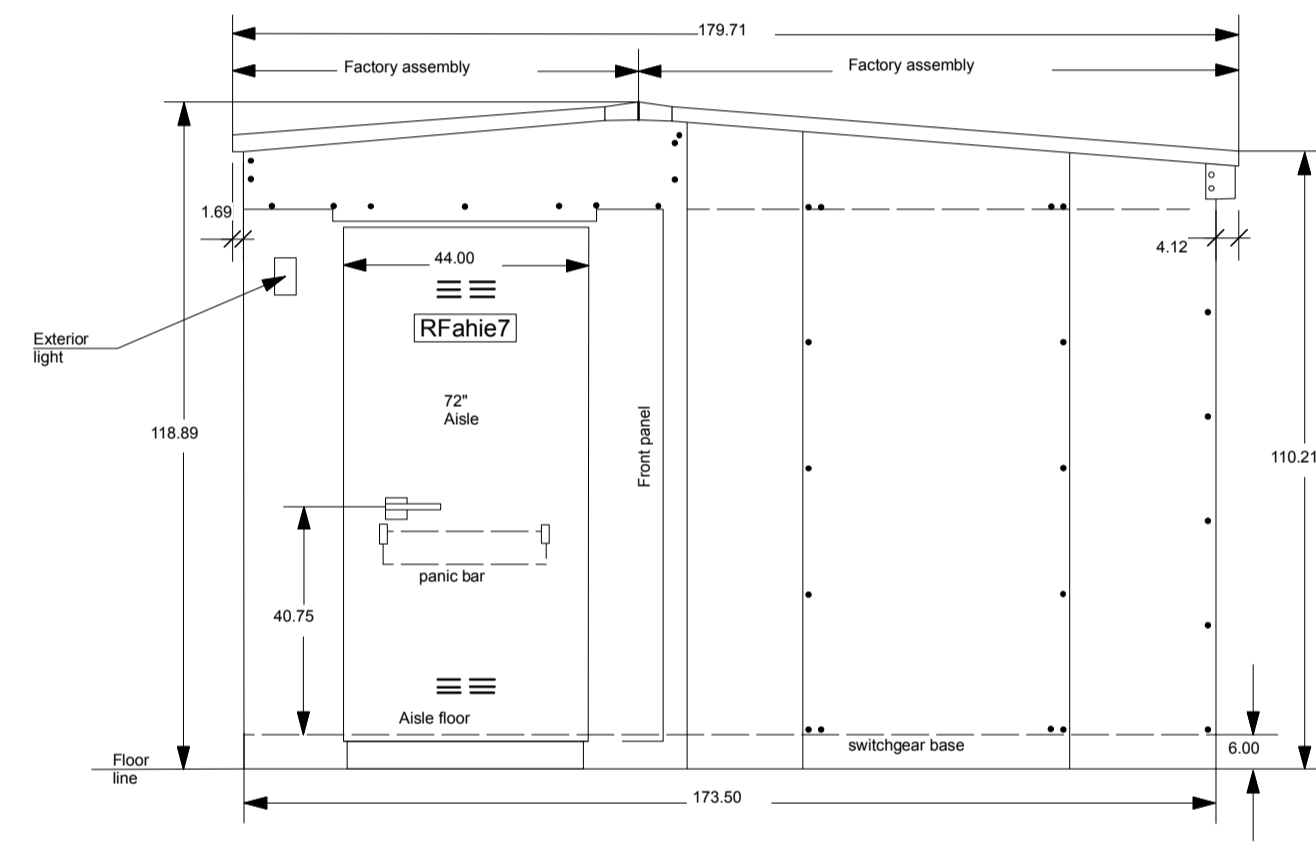
Project:
**Proposed Building For
B.V.I Electricity,
Anegada, B.V.I**

Description



SECTION AA
Scale: 1/4" = 1'-0"

6



7 SWITCHGUARD ELEVATION
Scale: 3/8" = 1'-0"

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REVISIONS	DATE

SCALE : AS NOTED
1/4 1/2 1 INCH

FILE NO: 1724
Date: 4 Jul 2023

SHEET NAME:

Sheet No.	A105
Design By	
Drawn By	C. Cooper
Date	
Scale	as shown

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Project:
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Description

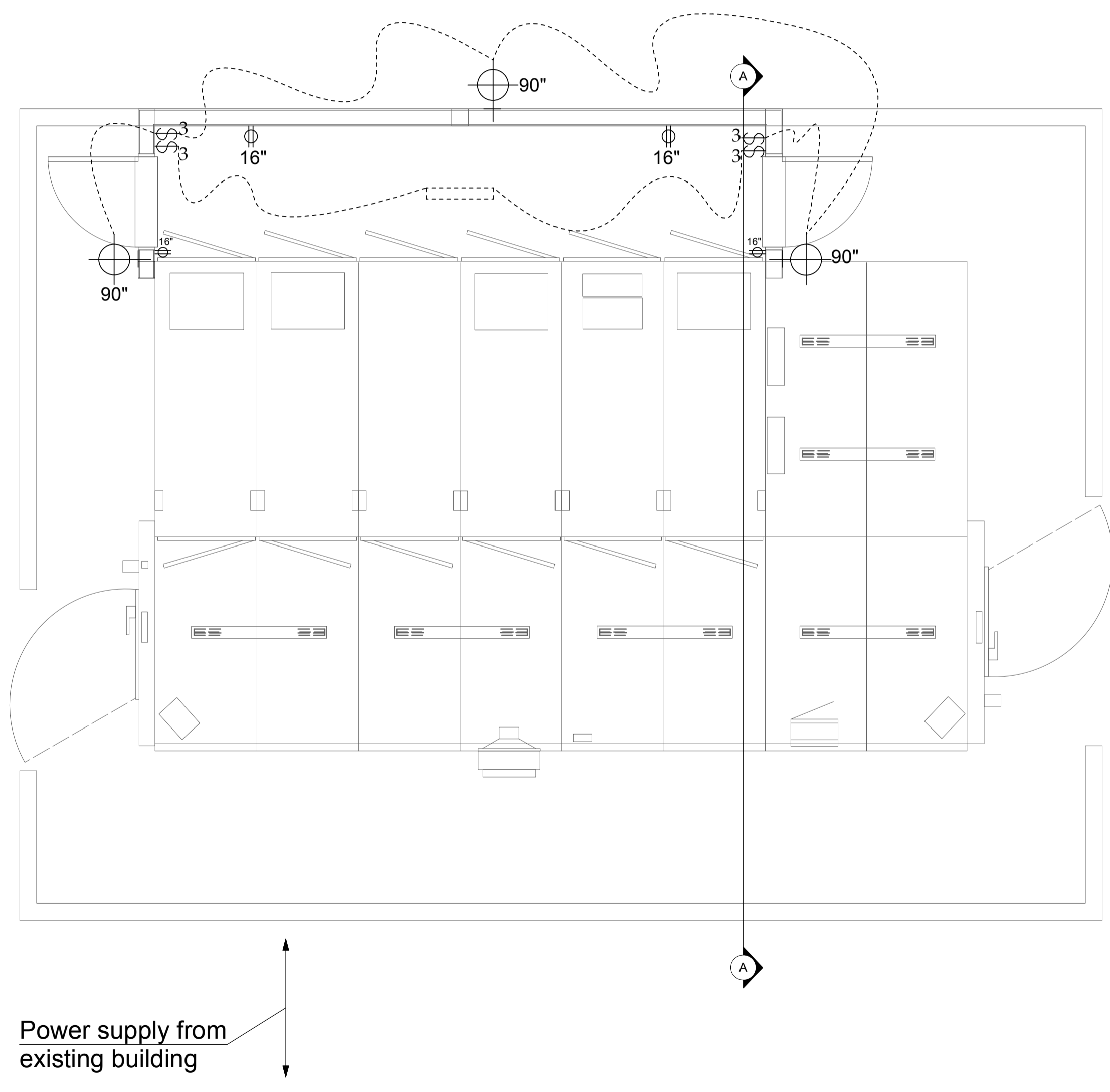
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SCALE : AS NOTED

FILE NO: 1724
Date: 4 Jul 2023

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Sheet No.	E100
Design By	
Drawn By	C. Cooper
Date	
Scale	as shown



LEGEND

- | | | | |
|--|---------------------|--|----------------------------|
| | Ceiling light | | cable t.v |
| | Wall mounted light | | Telephone |
| | Switches | | Panel Board |
| | Dimmer Switch | | WP Weatherproof |
| | Switch 2 way 3 pole | | GFI Ground fault protector |
| | Duplex outlet | | Ceiling fan |
| | Junction Box | | Fluorescent light |
| | Recess light | | Thermostat |
| | Track light | | |

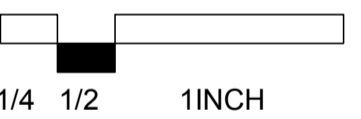
1 SWITCHGUARD ELECTRICAL PLAN

Project:
**Proposed Building For
B.V.I Electricity,
Anegada,B.V.I**

Description

REVISIONS	DATE

SCALE : AS NOTED

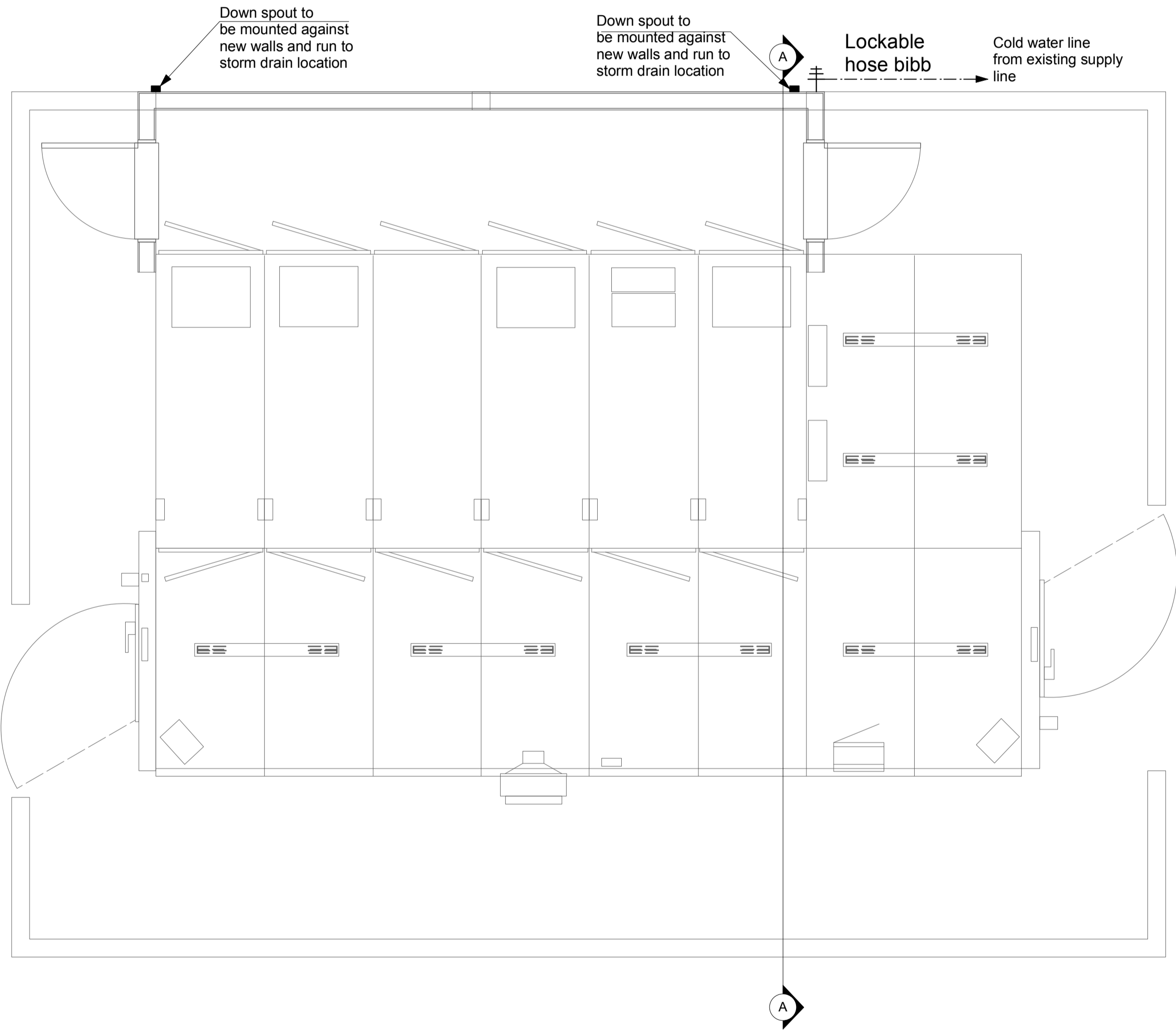


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Date: 4 Jul 2023

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Design By	
Drawn By	C. Cooper
Date	
Scale	as shown



5 SWITCHGUARD PLUMBING PLAN
Scale: 3/8" = 1'-0"



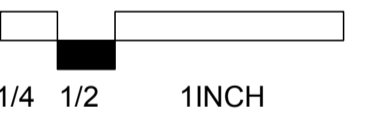
- Note:**
- (1) Plumbing system to be configure so that if either the cistern or govt. water supply is interrupted,one will be able to switch over to the other, by the means of valves & supply the entire building.
 - (2) Vent all fixtures.

Project:
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Description

REVISIONS	DATE

SCALE : AS NOTED

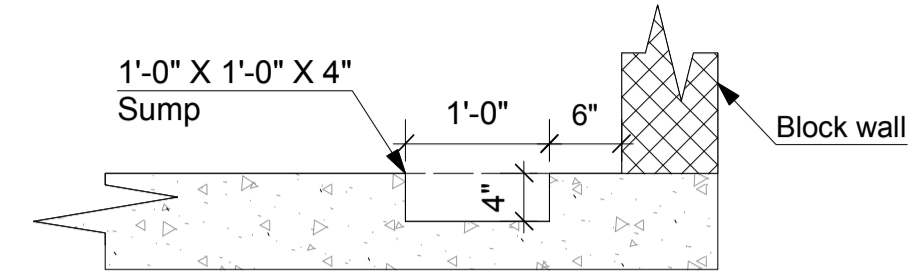


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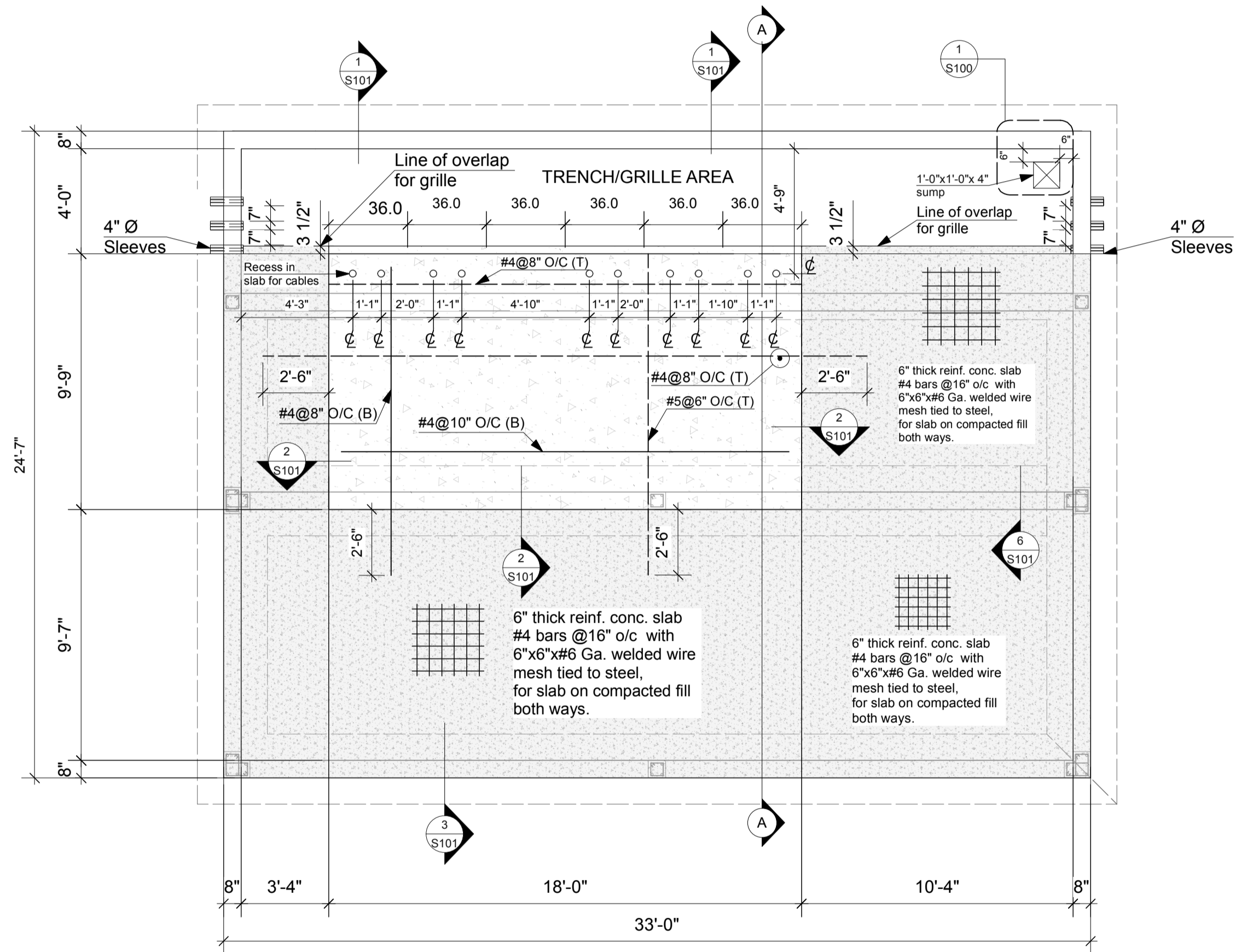
Date: 4 Jul 2023

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1 SUMP DETAIL
Scale: 3/4" = 1'-0"



LEGEND

- 6" CONCRETE SLAB
- 8" CONCRETE SLAB

8 SWITCHGUARD SLAB PLAN
Scale: 1/4" = 1'-0"

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Description

DEVELOPER

ENGINEER

STAMP

REVISIONS	DATE

SCALE : AS NOTED

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FILE NO: 1703

Date: 4 Jul 2023

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Sheet No. **S101**

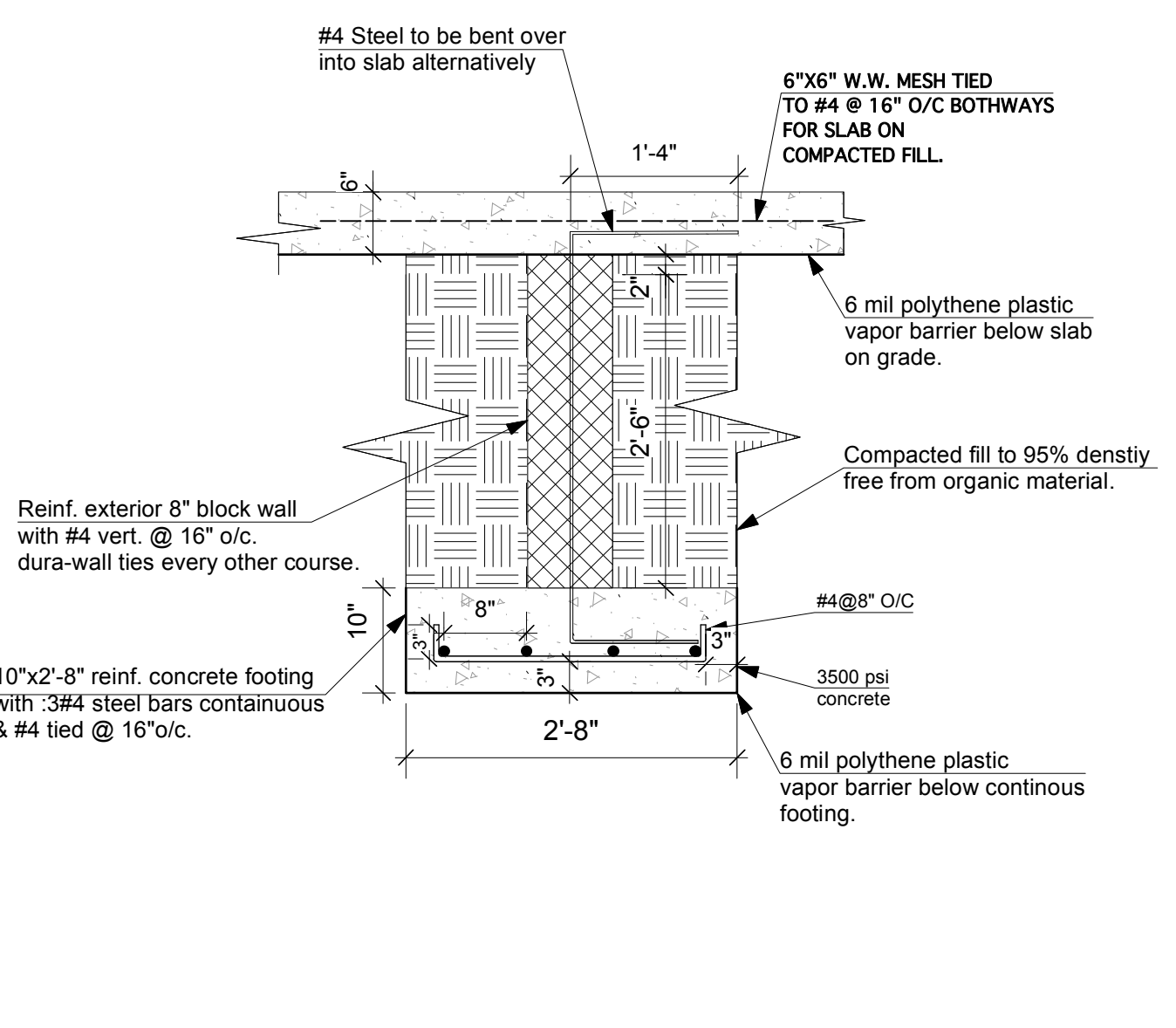
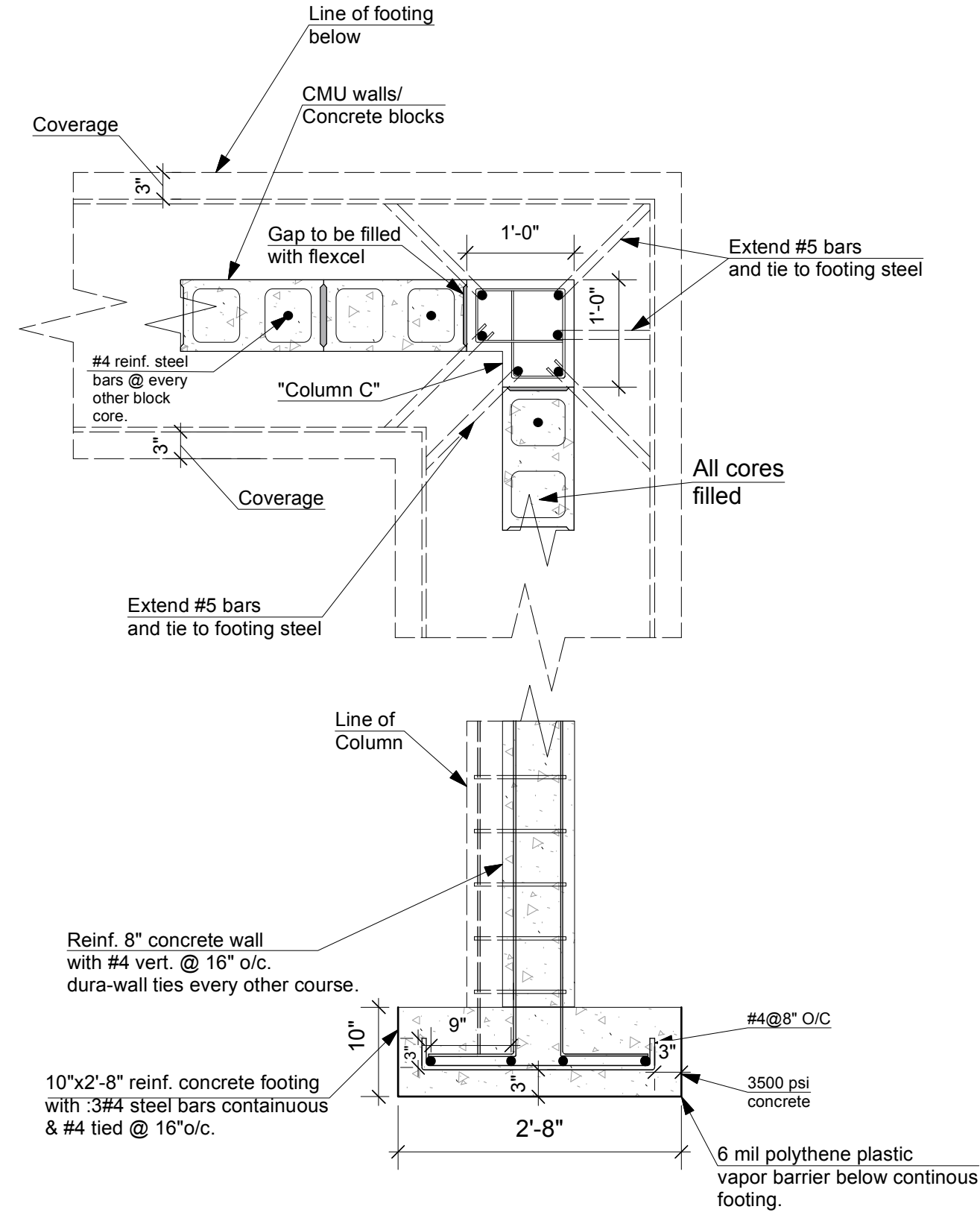
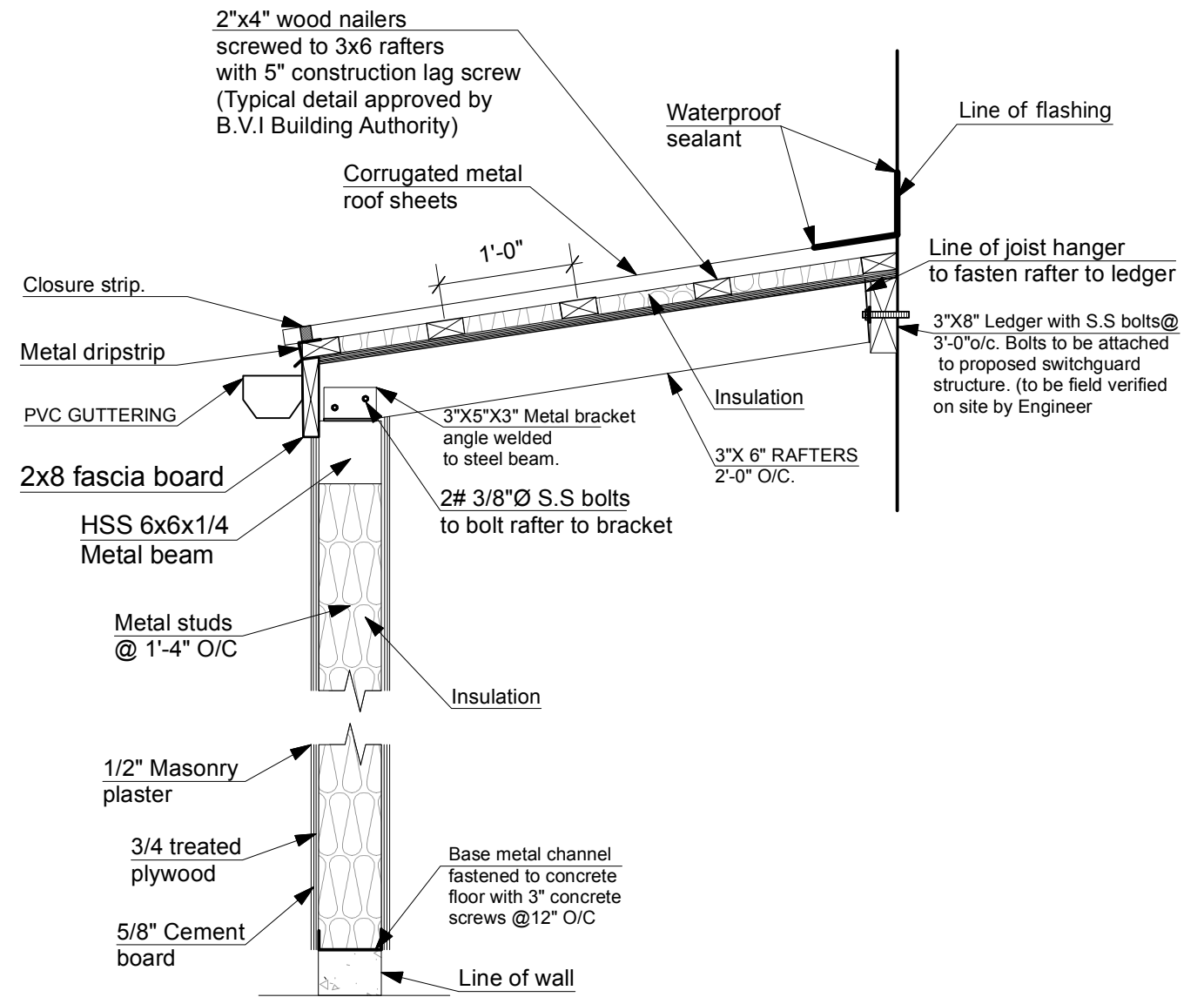
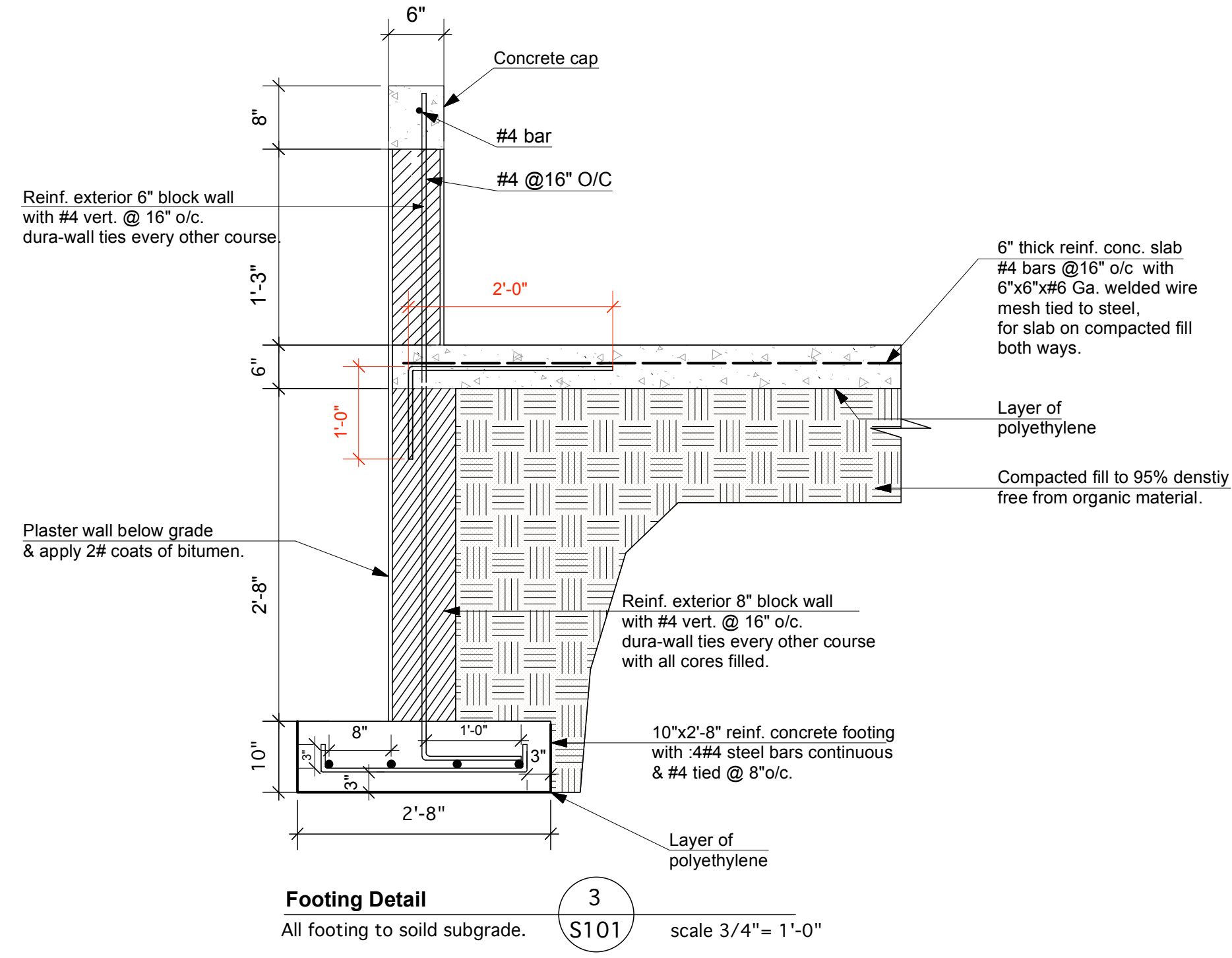
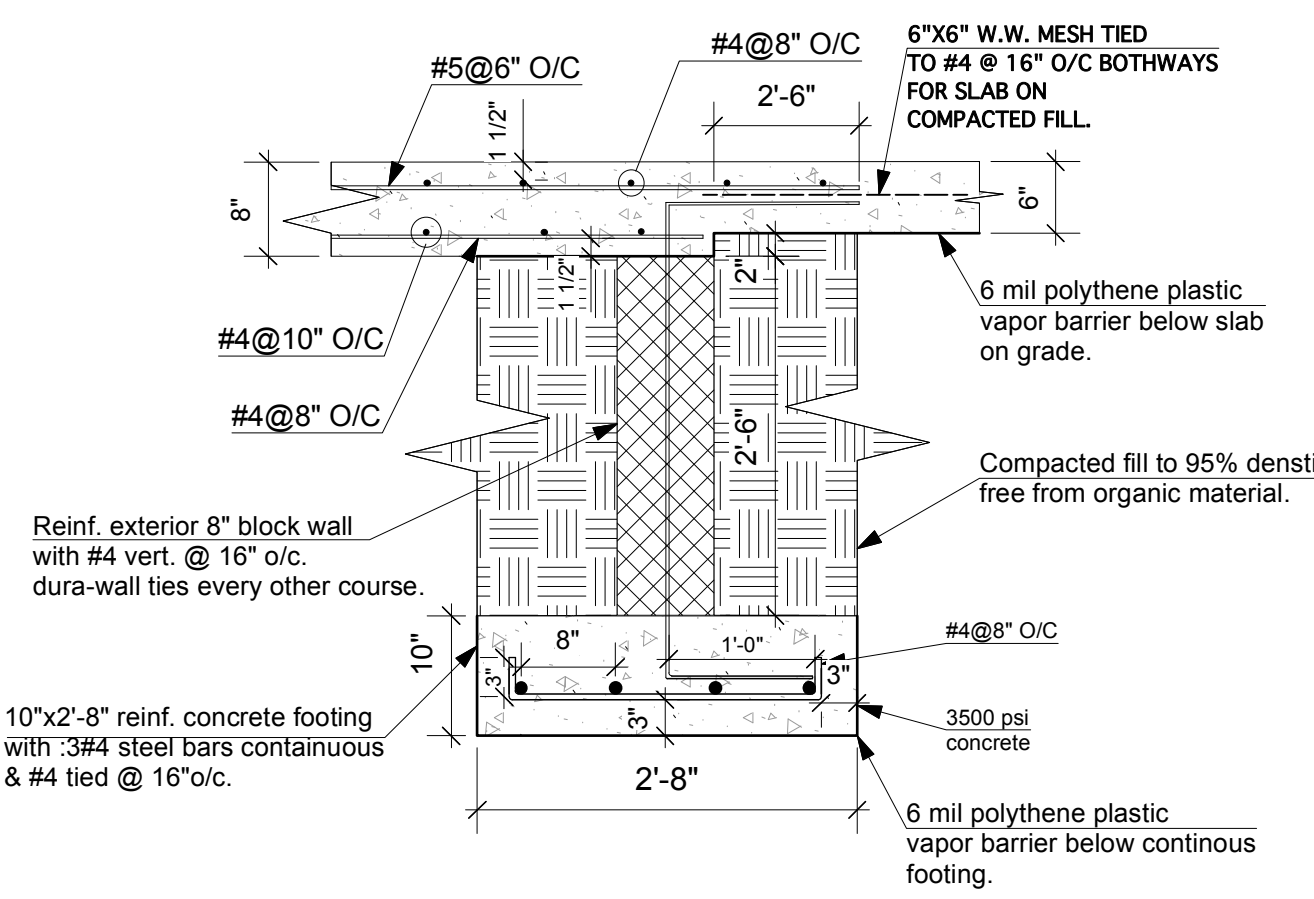
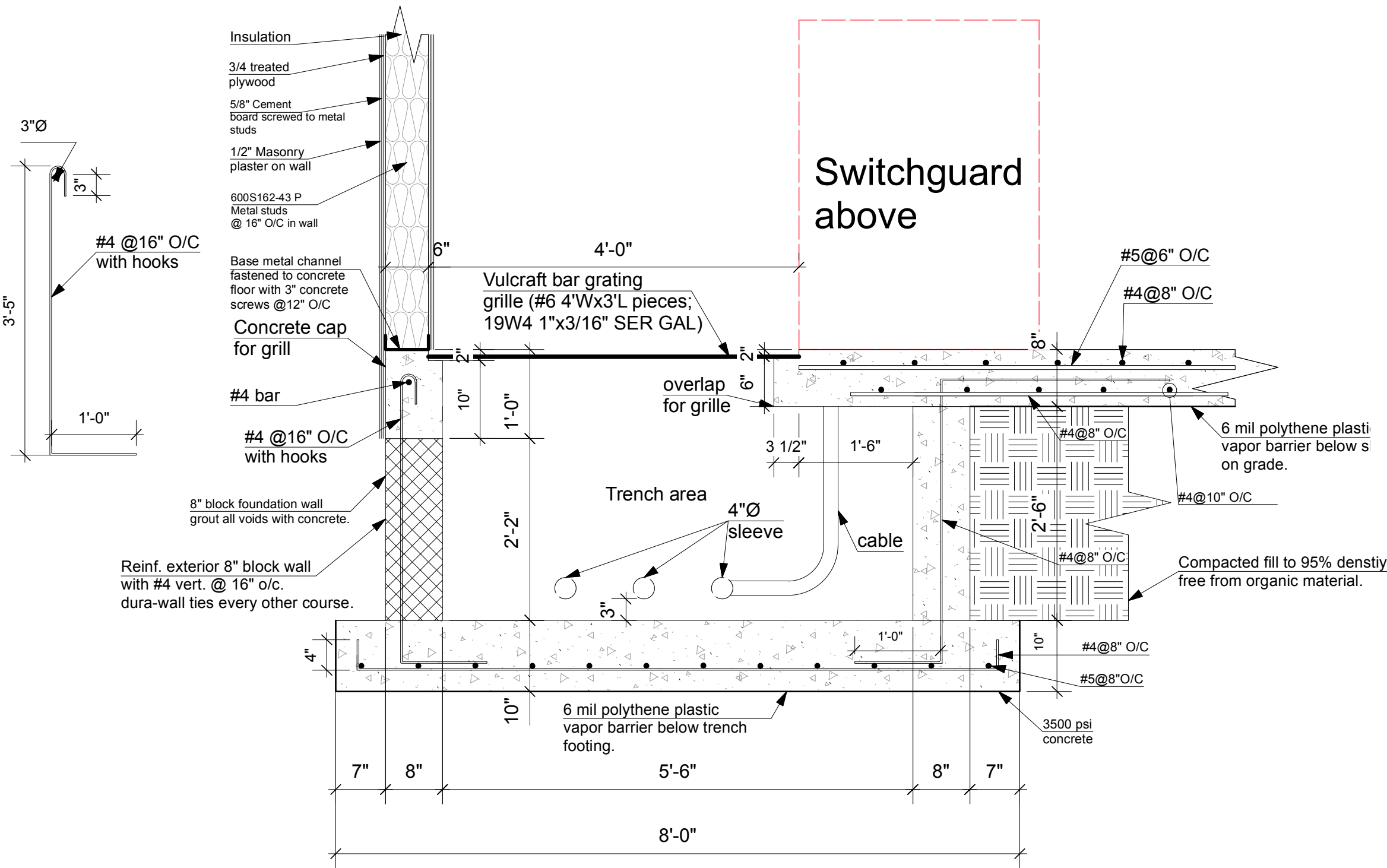
Design By

Drawn By **C. Cooper**

Date

Scale as shown

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Project:
Proposed Building For
B.V.I Electricity,
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Description

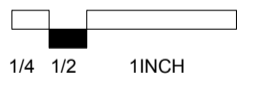
DEVELOPER

ENGINEER

STAMP

REVISIONS	DATE

SCALE : AS NOTED

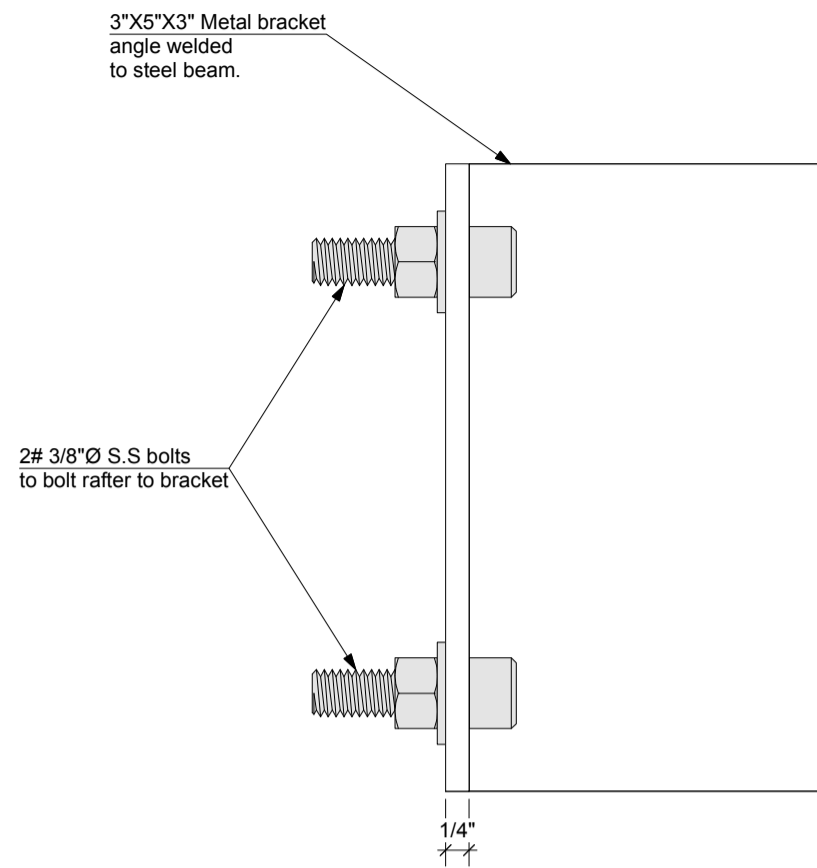


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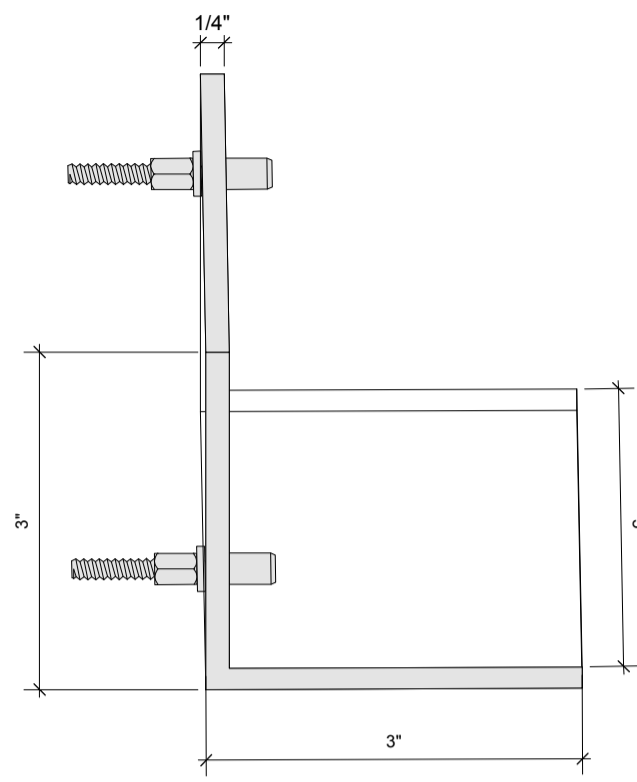
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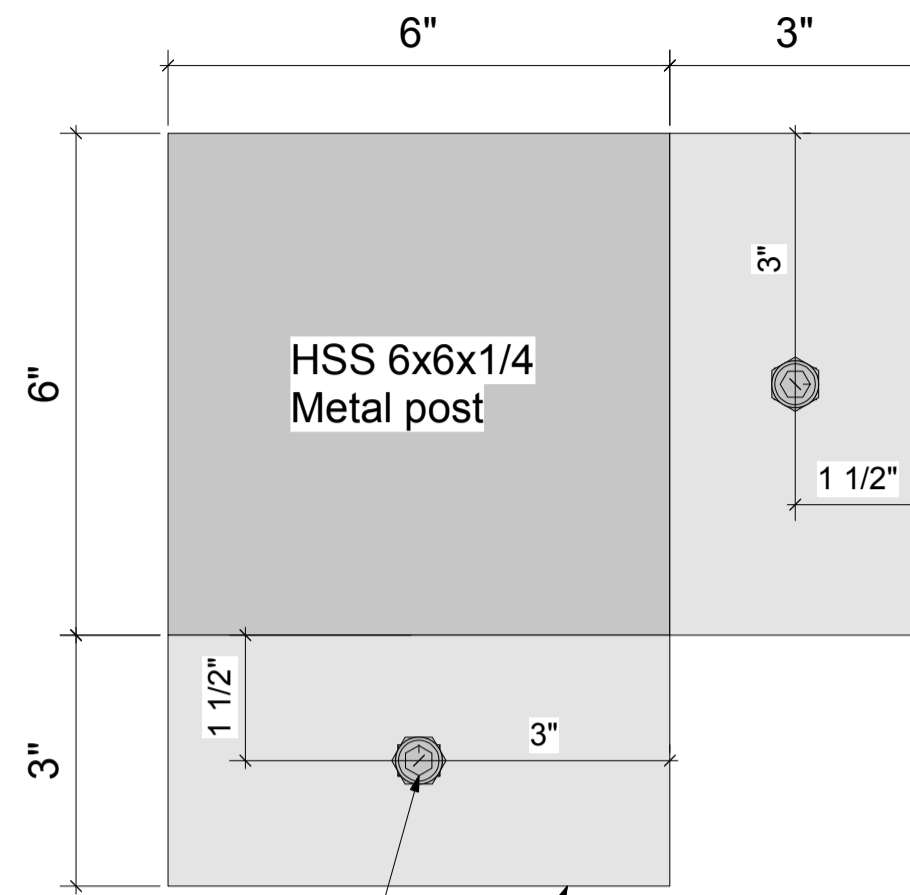
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Design By	
Drawn By	C. Cooper
Date	
Scale	as shown
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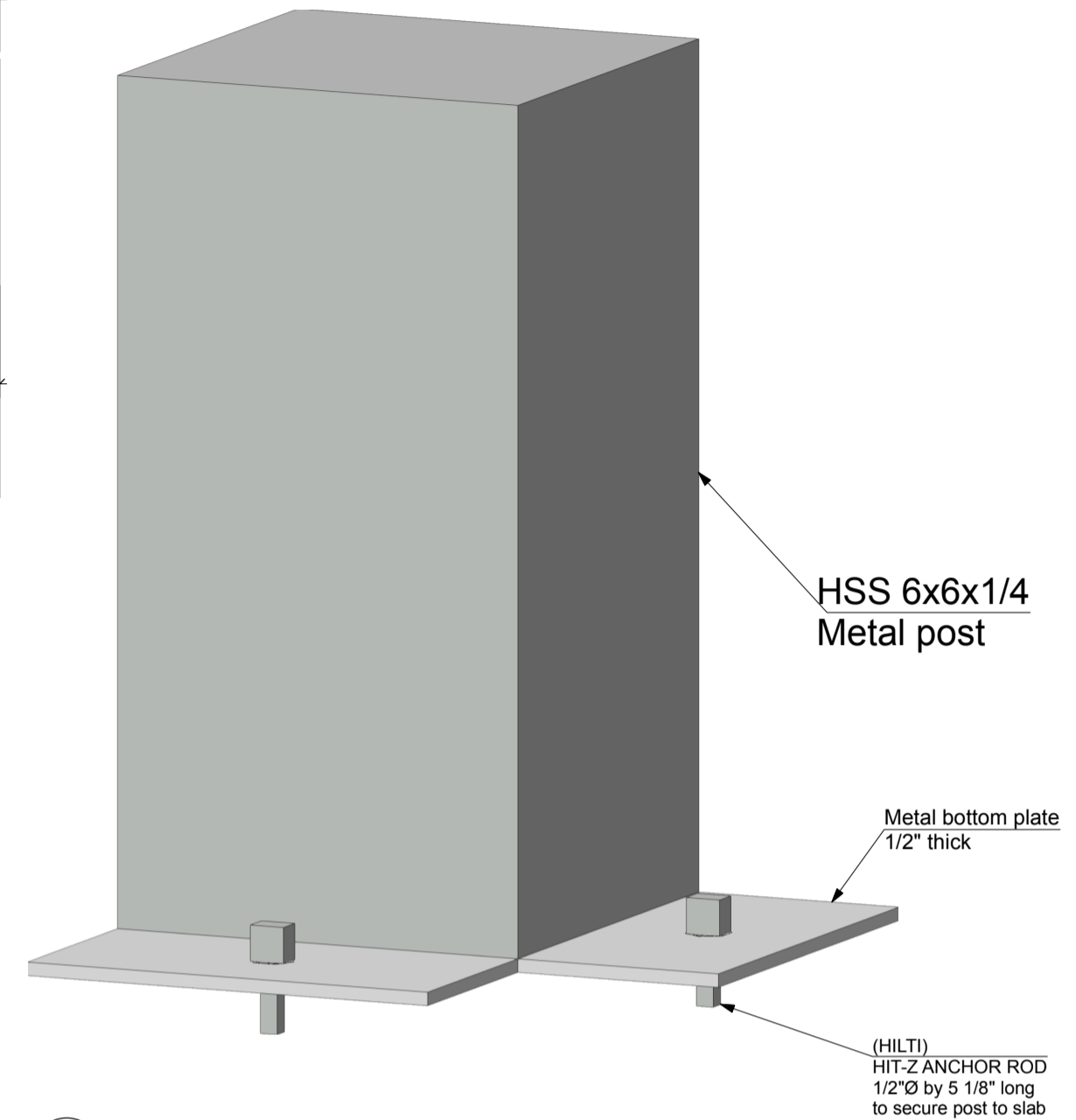
1 3"X5"X3" plate plan view
Scale: Actual Size



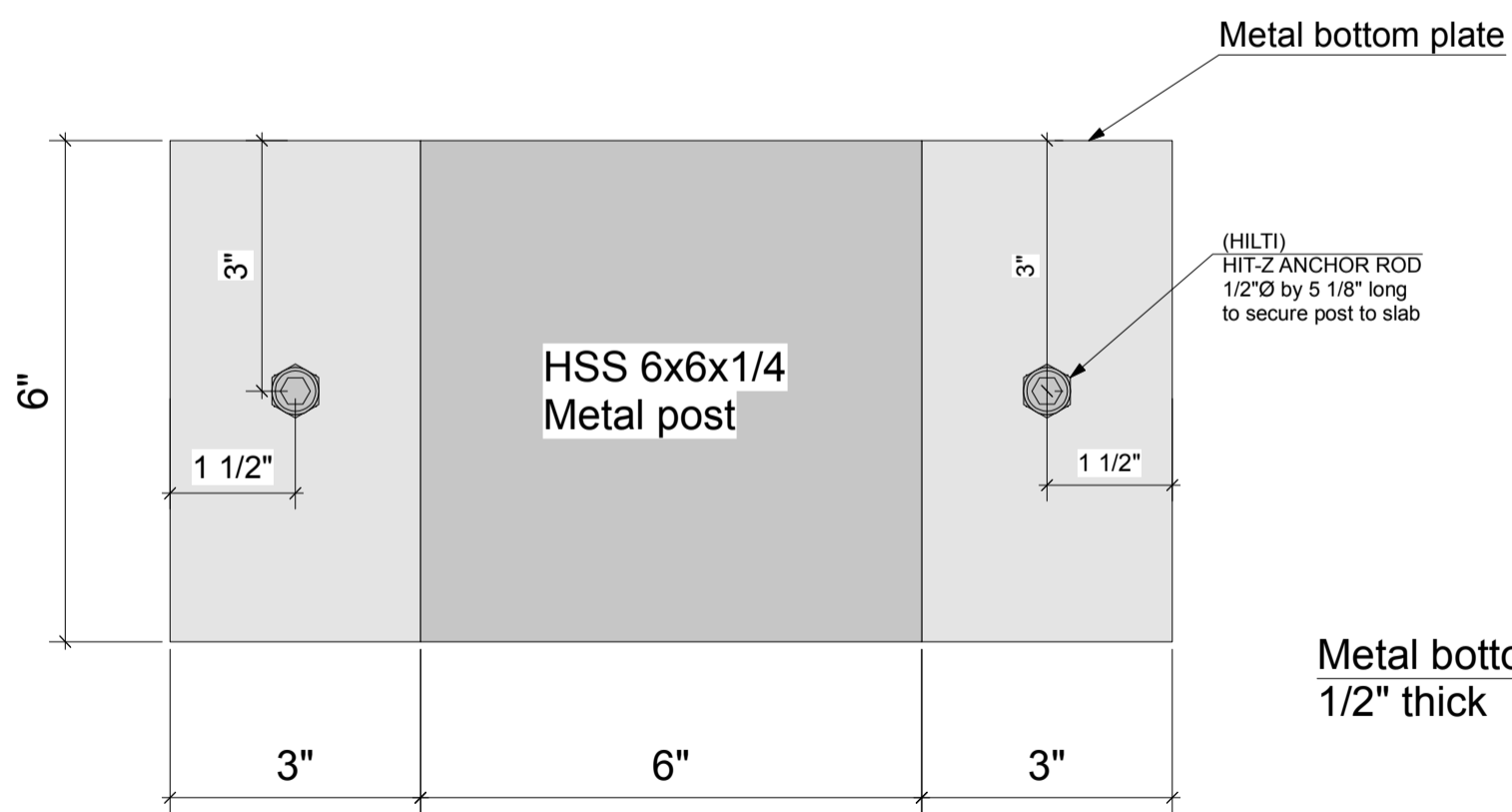
1A 3"X5"X3" plate side elevation view
Scale: Actual Size



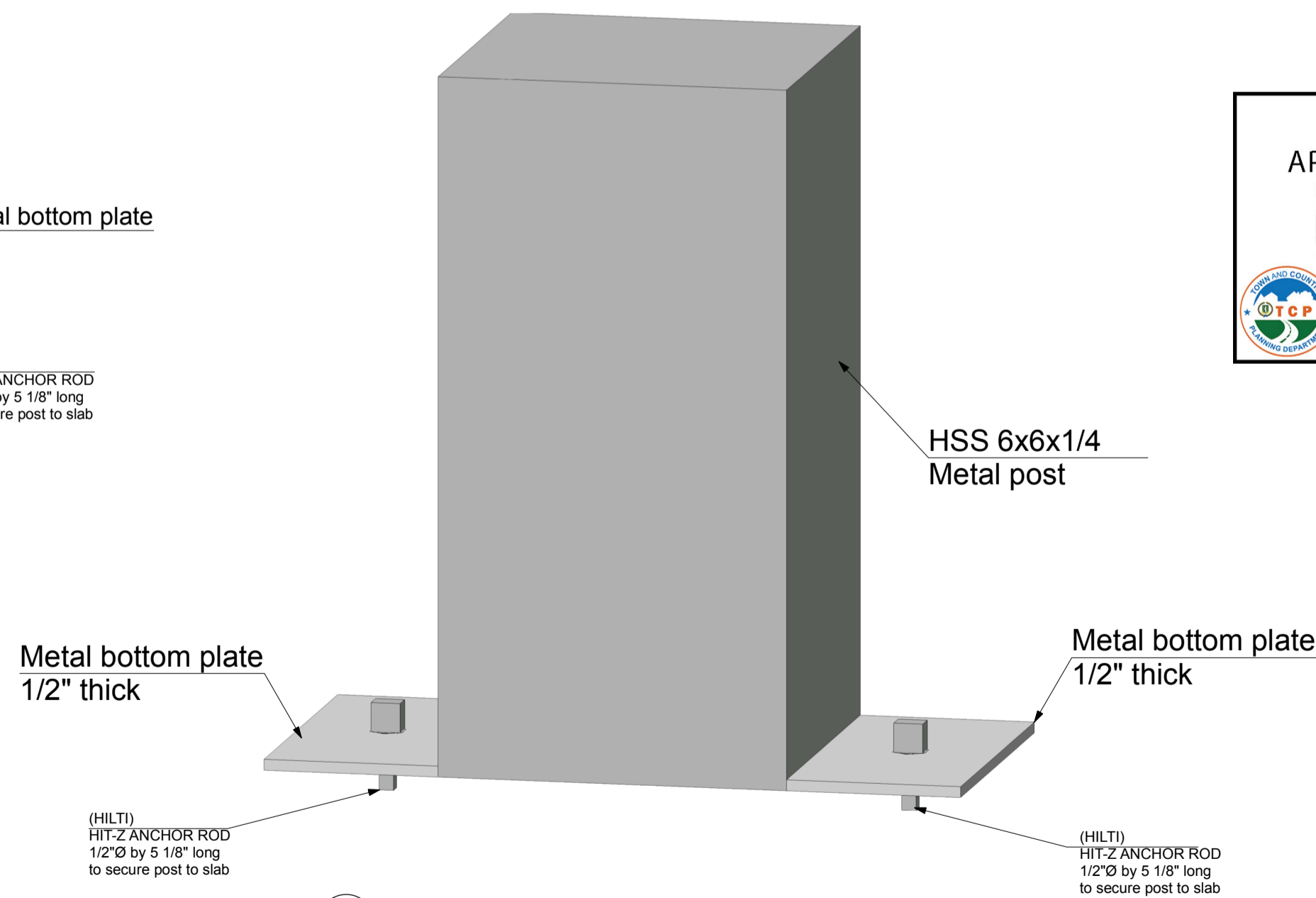
2 Plan view of corner 6"X6" Metal post & metal bottom plate
Scale: 1:1.5



2A Elevation of Corner 6"X6" Metal post & metal bottom plate
Scale: 1:1.5



3 Plan view of HSS 6X6x1/4 Metal post & bottom plate
Scale: 1:1.5



3A Elevation of 6"X6" Metal post & bottom plate
Scale: 1:1.5



Project:
**Proposed Building For
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Anegada, B.V.I**

Description

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REVISIONS DATE

SCALE: AS NOTED



FILE NO: 1703

Date: 4 Jul 2023

SHEET NAME:

Sheet No. **S103**

Design By

Drawn By **C. Cooper**

Date

Scale as shown

No#

GENERAL NOTES

- THE CONTRACTOR SHALL NOT SCALE THE DRAWINGS TO ESTABLISH DIMENSIONS. ALL DIMENSIONS SHALL BE CHECKED ON-SITE PRIOR TO ASSEMBLY OR CONSTRUCTION OF ANY WORK.
- THE STRUCTURE HAS BEEN DESIGNED FOR THE IN-SERVICE LOADS. THE METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SUPPORT FORMWORK FOR CONCRETE CONSTRUCTION SHALL NOT BE REMOVED BEFORE THE CONCRETE HAS GAINED SUFFICIENT STRENGTH TO SAFELY SUPPORT THE DEAD AND SUPERIMPOSED LOADS. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID OVERLOADS, AND MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
- MATERIALS SPECIFIED ON THE DRAWINGS AND/OR IN THE SPECIFICATIONS SHALL BE USED UNLESS THE CONTRACTOR OBTAINS WRITTEN APPROVAL OF THE ENGINEER TO USE ALTERNATIVE MATERIALS. WHEN REQUESTING SUCH APPROVAL, THE CONTRACTOR SHALL PROVIDE ADEQUATE AND DETAILED MANUFACTURER'S LITERATURE AND TECHNICAL DATA FOR EACH MATERIAL PRIOR TO ITS POTENTIAL USE.
- THE STRUCTURAL DRAWINGS SHOULD BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
- THE CONTRACTOR TO VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH ANY WORK.
- ANY CONFLICT, DISCREPANCY OR OMISSION FROM THE STRUCTURAL DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER. IF A DIFFERENCE EXISTS BETWEEN SPECIFICATIONS AND DRAWINGS, THE DRAWINGS SHALL GOVERN.

CONCRETE NOTES

- CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 301, 305, 306, 308, 315, 316 AND 350R SPECIFICATIONS.
- LATEST REVISION AND/OR VERSION OF ALL CODES AND REFERENCE STANDARDS SHALL BE FOLLOWED.
- FOR ALL MEMBERS OTHER THAN FOOTINGS, CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4000PSI AT 28 DAYS. FOR FOOTINGS, CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3500PSI AT 28 DAYS. SLUMP SHALL BE 3 1/2 INCHES ± 1 INCH.
- CONCRETE SHALL BE AIR ENTRAINED. CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150. TYPE I WITH AIR ENTRAINMENT ADMIXTURE CONFORMING TO ASTM C260. AIR CONTENT (% BY VOLUME) SHALL NOT BE LESS THAN 4% OR GREATER THAN 8.5% AND SHALL DEPEND ON MAXIMUM SIZE AGGREGATE USED.
- NO ADMIXTURE SHALL CONTAIN CALCIUM CHLORIDE BASED COMPOUNDS, FLYASH AND POZZOLAN CONTENT SHALL NOT EXCEED 20% BY WEIGHT OF CEMENT.
- NO CONSTRUCTION JOINT SHALL BE MADE UNLESS SHOWN ON DRAWINGS OR APPROVED IN WRITING BY ENGINEER.
- PVC WATERSTOPS SHALL BE 6 INCH FLAT RIBBED PVC WATERSTOPS R6-316 OR 4 INCH RIBBED CENTER BULB WATERSTOPS RB4-316. WATERSTOPS SHALL BE HEAT FUSED AT ALL JOINTS.
- UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE EMBEDMENT OF CONDUITS, PIPES, SLEEVES, ETC. OF ANY MATERIAL SHALL NOT BE PERMITTED WITHIN ANY CONCRETE STRUCTURAL ELEMENT (COLUMNS, BEAMS, ETC.) WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER.
- STRUCTURAL CONCRETE SHALL BE VIBRATED TO ENSURE CONSOLIDATION. VIBRATION SHALL NOT BE USED TO MOVE CONCRETE. CARE SHALL BE TAKEN TO PREVENT SEGREGATION AND LOSS OF AIR ENTRAINMENT CAUSED BY EXCESSIVE VIBRATION.
- ALL WATER SHALL BE ADDED TO THE CONCRETE AT THE BATCHING PLANT. NO FURTHER WATER SHALL BE ADDED AT THE SITE.
- ALL CONCRETE SHALL BE POURED WITHIN 90 MINUTES OF BATCHING TIME.
- CONCRETE FINISHES SHALL BE IN COMPLIANCE WITH THE ARCHITECTURAL REQUIREMENTS.
- ALL CONCRETE SHALL BE CURED IMMEDIATELY AFTER THE INITIAL SET OF THE CONCRETE USING A PROPRIETARY CURING COMPOUND. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF PROBLEMS RESULTING FROM INADEQUATE PROTECTION AND CURING OF CONCRETE.
- FORMWORK FOR CONCRETE SHALL BE DESIGNED AND ERECTED TO RESIST THE FORCES DEVELOPED BY THE WET CONCRETE. FORMWORK SHALL NOT BE STRIPPED UNTIL THE CONCRETE HAS ACHIEVED AT LEAST 50% OF THE DESIGN STRENGTH. STRUCTURAL ITEMS SHALL REMAIN SUPPORTED UNTIL THE DESIGN STRENGTH HAS BEEN ACHIEVED.
- TESTING FOR COMPRESSIVE STRENGTH SHALL BE DONE FOR EVERY 50 CUBIC YARDS OF CONCRETE POURED, OR FOR EACH DAY'S POURING, FOR THE CASE OF SMALL POURS.

1 GENERAL NOTES
Scale: 3/16" = 1'-0"

REINFORCING STEEL NOTES

- REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS.
- LAP SPLICES IN REINFORCING BARS SHALL BE A MINIMUM 38 TIMES BAR DIAMETERS. THE SPLICES SHALL NOT BE LESS THAN 48 INCHES.
- CONCRETE PROTECTION FOR REINFORCING BARS (UNLESS OTHERWISE NOTED):
A. FOOTINGS - 3 INCH BOTTOM AND SIDES, 2 INCH TOP
B. GRADE BEAMS - 2 INCH BOTTOM AND SIDES, 1 1/2 INCH TOP (TO STIRRUPS)
C. PIERS - 1 1/2 INCH TO TIES
D. FORMED SLABS - 1 1/2 INCH TOP AND BOTTOM
E. WALLS AND PADS - 2 INCH
F. EXTERIOR SLABS ON FILL - 2 1/2 INCH BOTTOM, 2 INCH TOP
G. INTERIOR SLABS ON FILL - 2 1/2 INCH BOTTOM, 1 1/2 INCH TOP
- PROVIDE CORNER REINFORCING BARS OF LENGTH= 12xD TO MATCH HORIZONTAL BARS AT CORNERS AND INTERSECTIONS FOR CONTINUITY.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A82 AND A185 SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE ALL ACCESSORIES REQUIRED TO SUPPORT REINFORCEMENT TO MAINTAIN THE MINIMUM COVER REQUIREMENTS.
- REINFORCING STEEL BARS SHALL NOT BE WELDED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
- ALL TIE BARS AND STIRRUPS SHALL HAVE 135° SEISMIC HOOKS IN ACCORDANCE WITH ACI 318-05.
- CONTINUOUS TOP AND BOTTOM BARS IN BEAMS SHALL BE SPLICED AS FOLLOWS:
A. TOP BARS AT MID-SPAN
B. BOTTOM BARS OVER SUPPORTS

MASONRY NOTES

- MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530.
- ALL BLOCK WALLS SHALL BE CONSTRUCTED USING TWO (2) CEL MASONRY UNITS.
- ALL CELLS TO BE GROUTED FOR FULL WALL HEIGHT. THE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF GROUT SHALL BE 3000 PSI.
- TYPE "M" MORTAR SHALL BE USED ALL MASONRY CONSTRUCTION BELOW GRADE, TYPE "S" ABOVE GRADE.
- HORIZONTAL REINFORCEMENT SHALL BE TRUSS TYPE REINFORCEMENT AT EVERY OTHER COURSE. THE WIRE SHALL CONFORM TO ASTM A82 STANDARD GAGE.

FOUNDATION NOTES

- FOUNDATION DESIGN IS BASED UPON A NET ALLOWABLE SOIL BEARING CAPACITY OF 250KN/M2 FOR FOOTINGS BEARING ON APPROVED NATIVE SUBGRADE SOILS OR COMPACT STRUCTURAL GRANULAR FILL.
- CONTRACTOR SHALL FIELD VERIFY THE FOUNDATION BEARING GRADE MATERIAL AND BEARING CAPACITY DURING CONSTRUCTION. FOUNDATIONS SHALL BE PLACED ON APPROVED BEARING GRADE.
- NO FOOTING SHALL BEAR ON EXISTING FILL, SOFT OR LOOSE ORGANIC OR OTHER UNSUITABLE SOILS. IF ENCOUNTERED, THE EXISTING FILL AND UNSUITABLE SOILS AT THE FOOTING BEARING GRADE LEVEL SHALL BE REMOVED DOWN TO COMPETENT NATIVE SUBGRADE AND EXCAVATION BACKFILLED WITH COMPACTED STRUCTURAL GRANULAR FILL.
- EXISTING UNDERGROUND PIPING, REINFORCED CONCRETE STRUCTURES, UTILITIES, ELECTRICAL CABLES AND GROUNDING SYSTEMS NOT IDENTIFIED ON THE DRAWINGS THAT MAY EXIST WHEN UNCOVERED, THE CONTRACTOR MUST REPORT FINDINGS TO THE ENGINEER FOR IDENTIFICATION AND RECOMMENDED ACTION.
- NO PIPES OR CONDUITS SHALL BE PLACED IN FOOTINGS.

BUILDING CODE DATA

ORGANIZATION OF EASTERN CARIBBEAN STATES
(OECs) BUILDING CODE, 2016; INTERNATIONAL BUILDING CODE, 2021

LOCATION: ANEGADA, BVI

BUILDING DIMENSIONS: 24'-7" X 33'-0" X 9'-10 7/8"

OCCUPANCY CLASS:

BUILDING TYPE: REINFORCED CONCRETE & BLOCK FOUNDATION WITH METAL STRUCTURE BOLTED TO REINFORCED CONCRETE SLAB

STRUCTURAL LOADS (NON-FACTORED)

- DEAD LOAD** STRUCTURAL EQUIPMENT
- FLOOR LIVE LOAD**
UNIFORMLY DISTRIBUTED LOAD 100 POUNDS PER SQUARE FOOT
CONCENTRATED LOAD 2000 POUNDS
- WIND LOAD**
BASIC WIND SPEED (3-SECOND GUST) 185 MILES PER HOUR
BUILDING STRUCTURAL CATEGORY II (SECTION 1609.3)
EXPOSURE CATEGORY C (SECTION 1609.4.2)
WIND LOAD IMPORTANCE FACTOR 1.15 (SECTION 1609)
- EARTHQUAKE LOAD**
SEISMIC USE GROUP I (SECTION 1616.2)
SEISMIC IMPORTANCE FACTOR 1.25 (SECTION 1613.5)
SITE CLASS (SOIL PROFILE) C (SECTION 1615.1.1)
MAPPED SPECTRAL RESPONSE COEFFICIENTS
S_s (SHORT PERIOD) 1.375 (SECTION 1613.2.1)
S₁ (1-SECOND) 0.475 (SECTION 1613.2.1)
DESIGN SPECTRAL RESPONSE COEFFICIENTS
S_m (SHORT PERIOD) 0.917 (SECTION 1613.2.4)
S_m (1-SECOND) 0.317 (SECTION 1613.2.4)
SEISMIC DESIGN CATEGORY A (TABLES 1613.2.5(1) & 1613.2.5(2))
ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE
BASIC SEISMIC FORCE BUILDING FOUNDATION
RESISTING SYSTEM
- DEFLECTION LIMITATION**
CONCRETE SLAB NOT TO EXCEED 1/240 OF SPAN

REBAR DEVELOPMENT LENGTH & STANDARD HOOK DETAILS

