



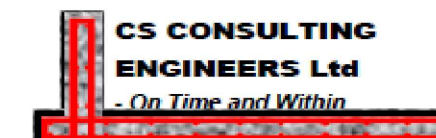
FUNDED BY: THE EUROPEAN UNION

MORNE FORTUNE, CASTRIES ST. LUCIA

DEPT OF FORESTRY VISITORS CENTER DEVELOPMENT

LOCATED AT BENDALS, ANTIGUA

The Consortium of Caribbean Architects and Planners
Ltd, CS Consulting Engineers Ltd,
Kelvin Swanston's Company.





TECHNICAL ASSISTANCE
FOR THE DESIGN AND
SUPERVISION OF SLM-BASED
ECOSYSTEM AND
BIODIVERSITY RESTORATION
INITIATIVES, IN ST. KITTS
AND NEVIS, AND ANTIGUA
AND BARBUDA

CLIENT:

O ECS COMMISSION
MORNE FORTUNE,
CASTRIES ST. LUCIA

PROJECT:
DEPT OF FORESTRY
NURSERY - VISITORS
CENTER

LOCATION:

BENDALS, ANTIGUA

SHEET:

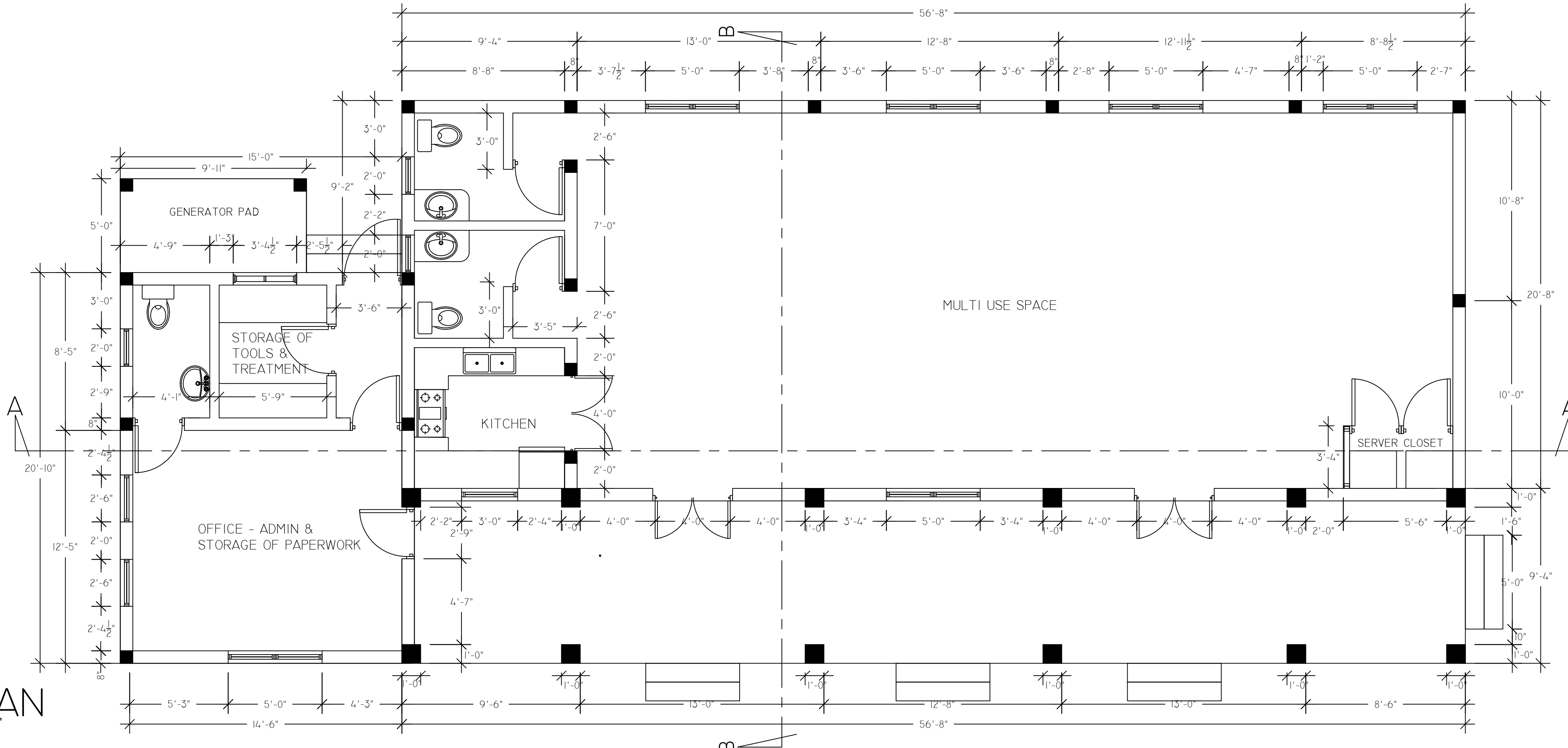
A01 - FLOOR & ROOF
PLAN

NOTES

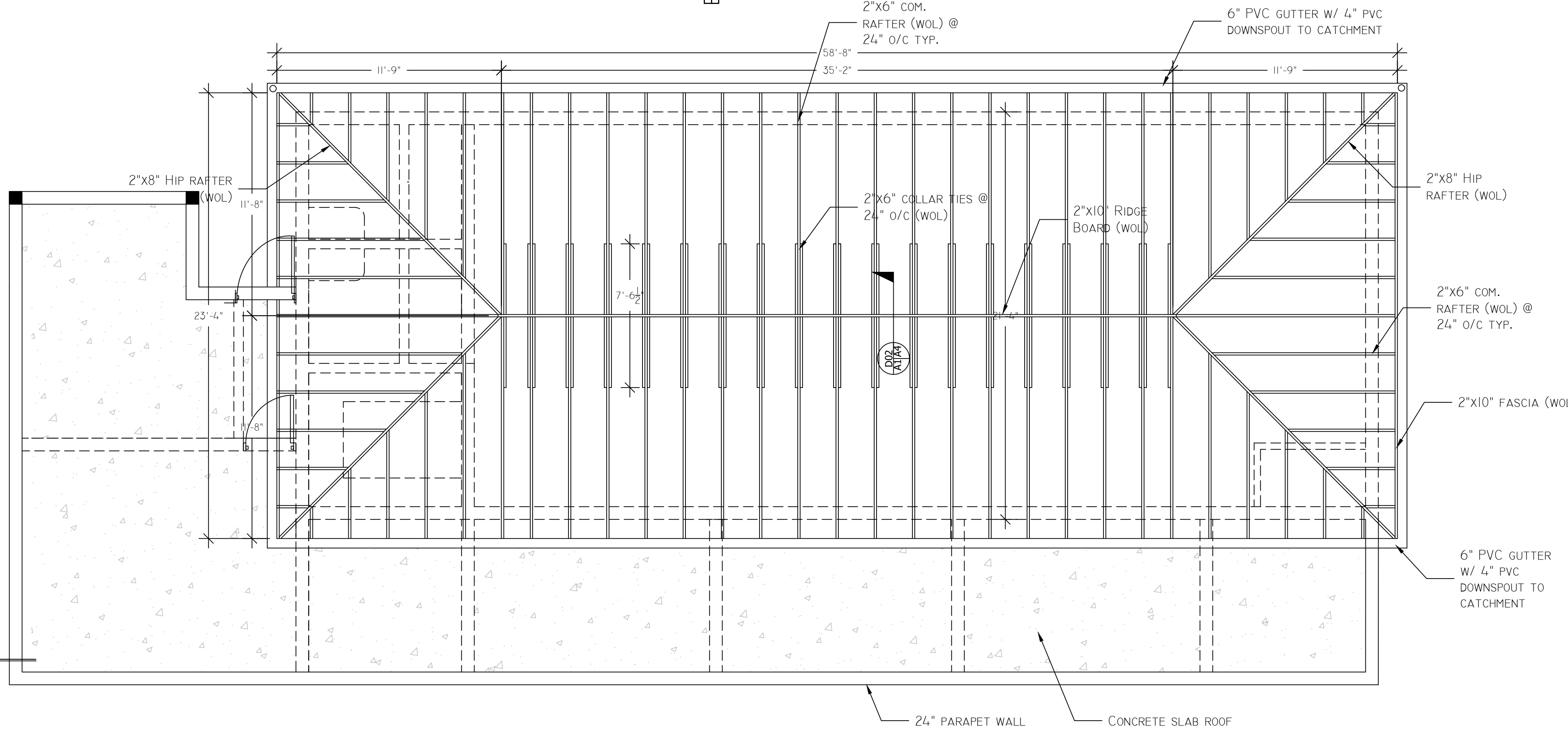
Scale:
1/4" = 1'-0"

Date:
11th May/2023

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FLOOR PLAN
SCALE: 1/4" = 1'-0"



ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"



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SHEET:

A02 - BUILDING
ELEVATIONS

NOTES

THE HEIGHT OF FLOOR SLABS SHALL NOT BE
LESS THAN 12 INCHES ABOVE FINISHED GRADE

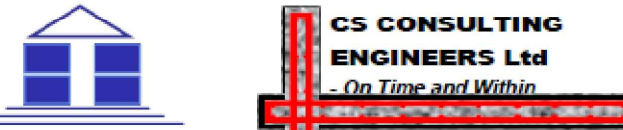
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Date:

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FRONT ELEVATION

SCALE: 1/4"=1'-0"



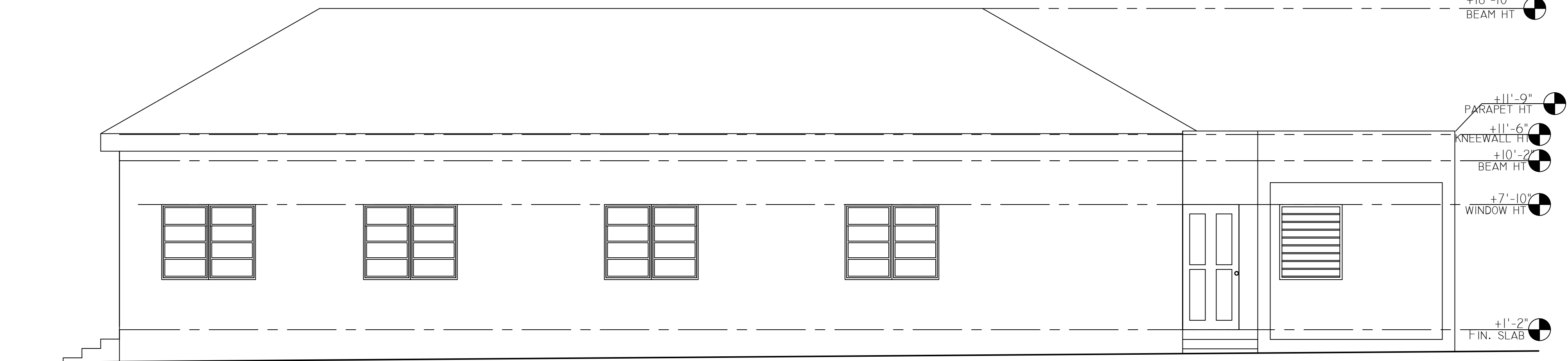
RIGHT ELEVATION

SCALE: 1/4"=1'-0"



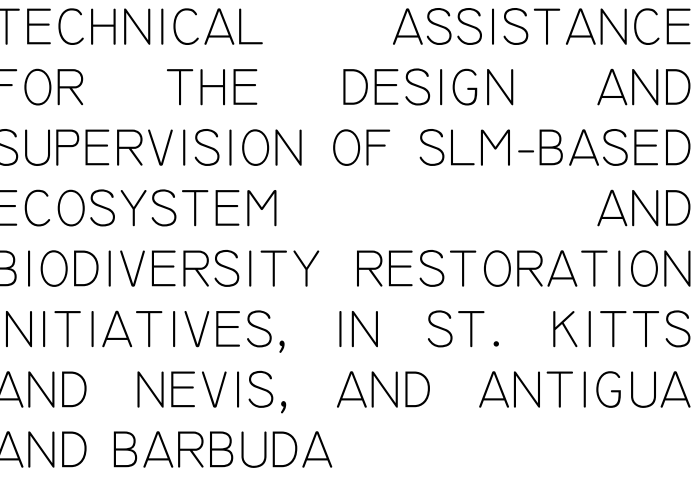
LEFT ELEVATION

SCALE: 1/4"=1'-0"



REAR ELEVATION

SCALE: 1/4"=1'-0"



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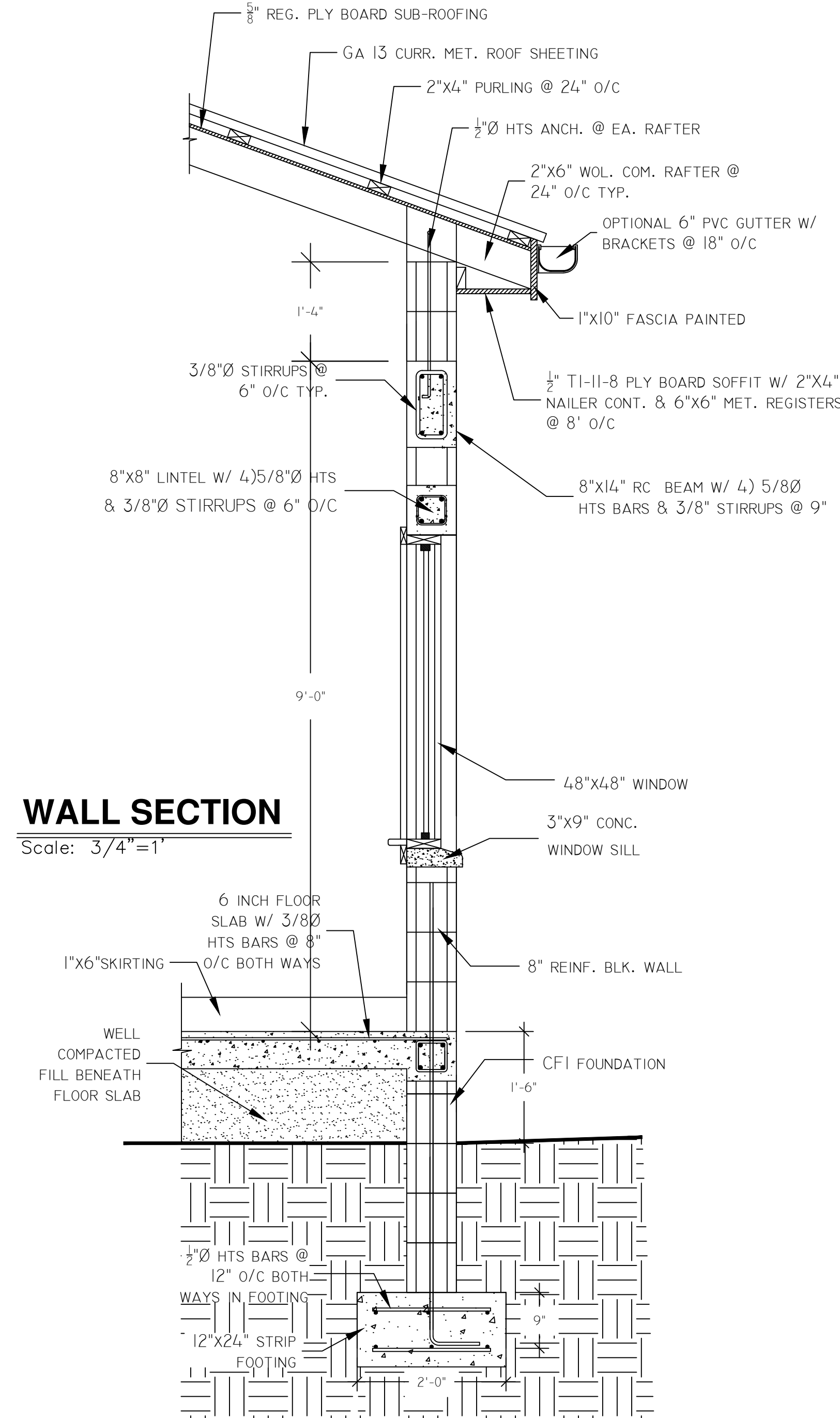
BENDALS, ANTIGUA

A03 - BUILDING SECTIONS

THE DEPTH OF ALL FOOTINGS TO BE
FINALIZED BY THE LAND SURVEYOR IN
THE FIELD:

Date:
11th May/2023


**CS CONSULTING
ENGINEERS Ltd**
 - On Time and Within
 01452 424242 • 01452 424243 • 01452 424244



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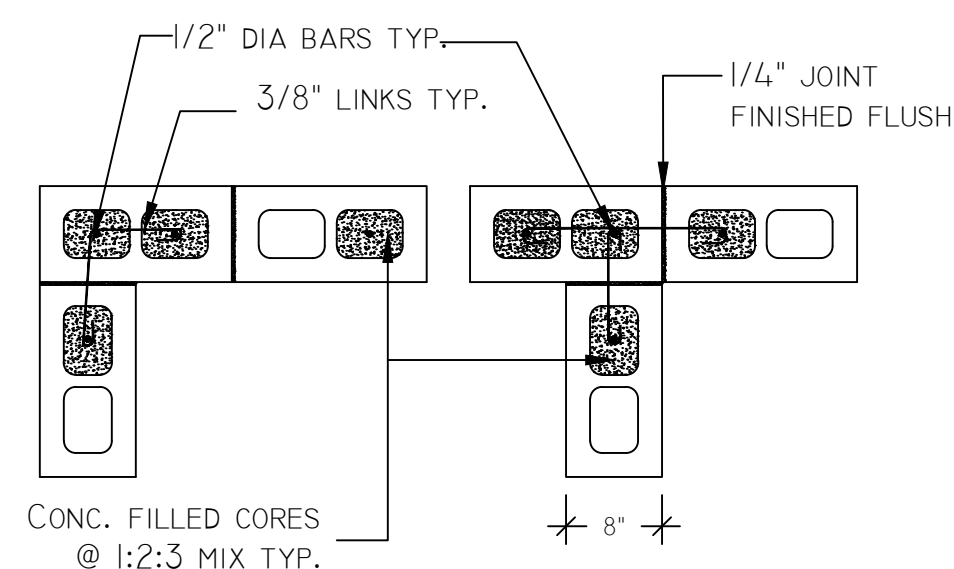
A04 -

CONSTRUCTION
DETAILS
NOTES

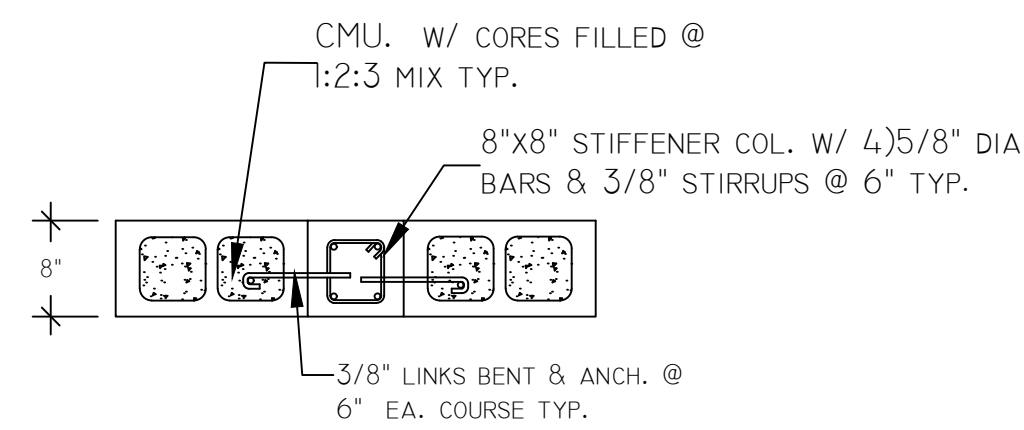
ASSEMBLY DRAWINGS ARE INTENDED AS
GUIDES FOR THE BUILDING
CONTRACTOR. ALL MODIFICATIONS ARE
TO BE APPROVED BY THE
ARCHITECT/ENGINEER

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

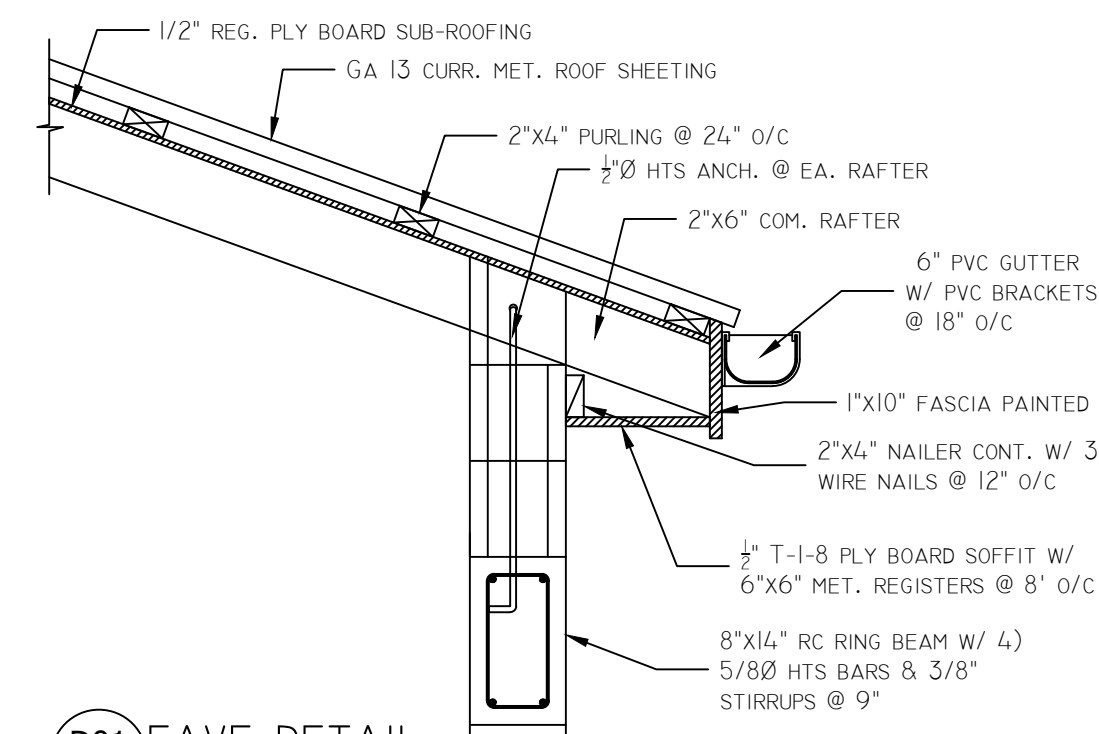
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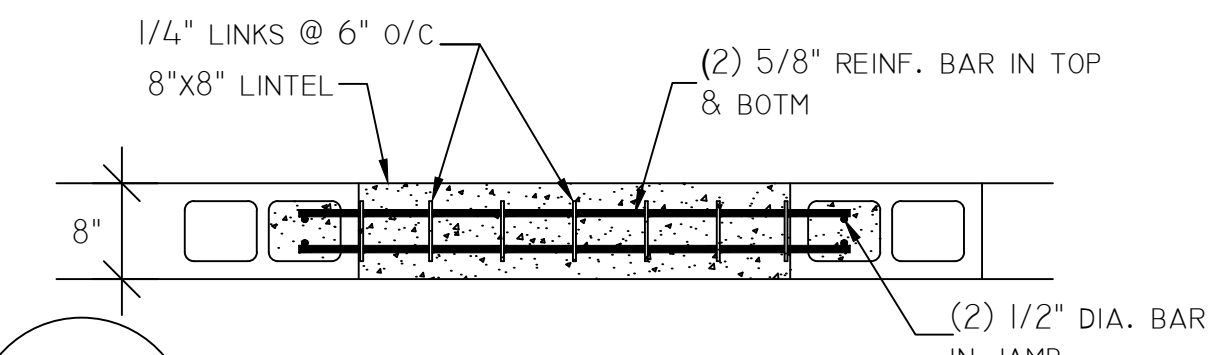
WD-1 WALL JUNC. DET.
SCALE: 3/4"=1'



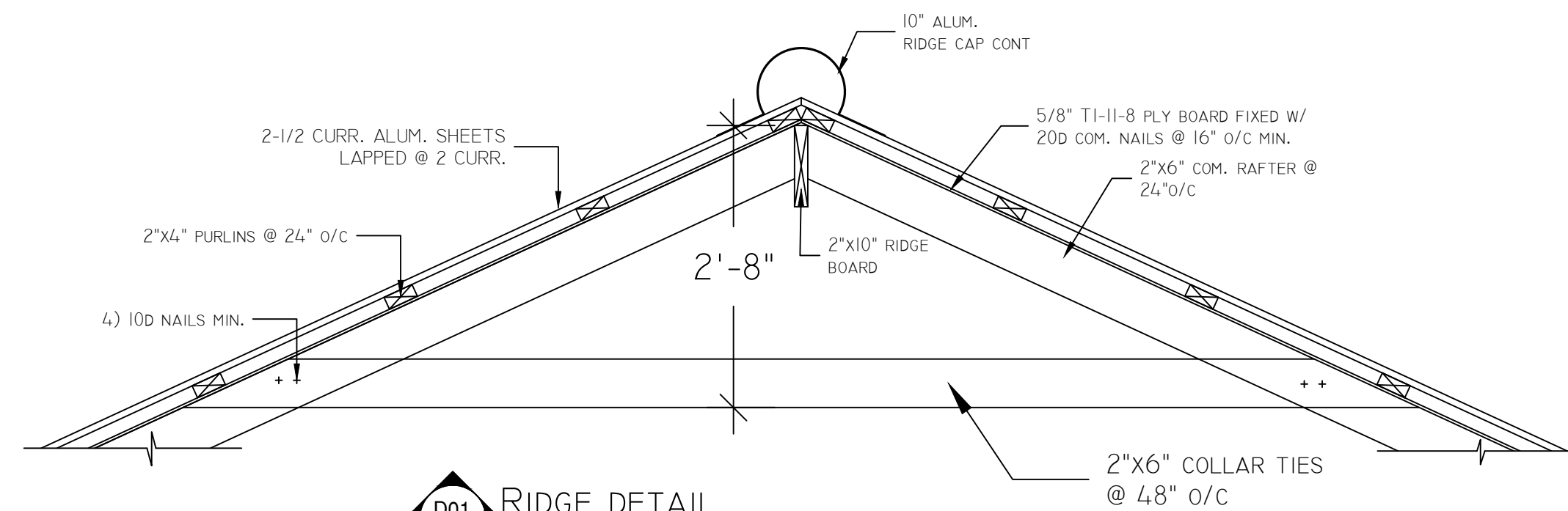
WD-2 STIFFNER CONNEC. DETAIL
SCALE: 3/4"=1'



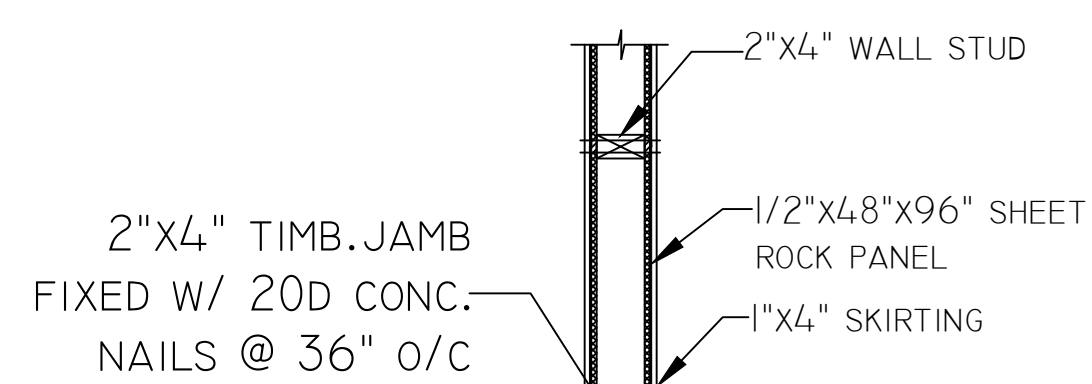
D01 EAVE DETAIL
SCALE: 3/4"=1'



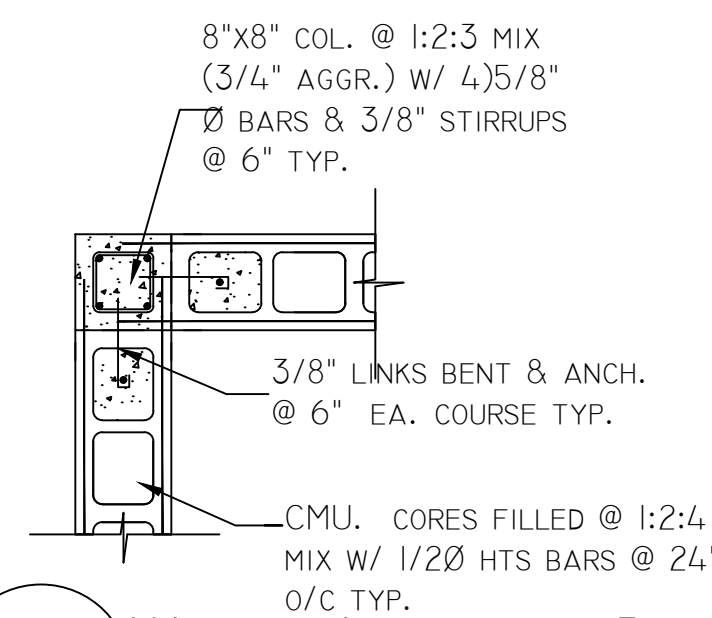
WD-3 LINTEL DET.
SCALE: 3/4"=1'



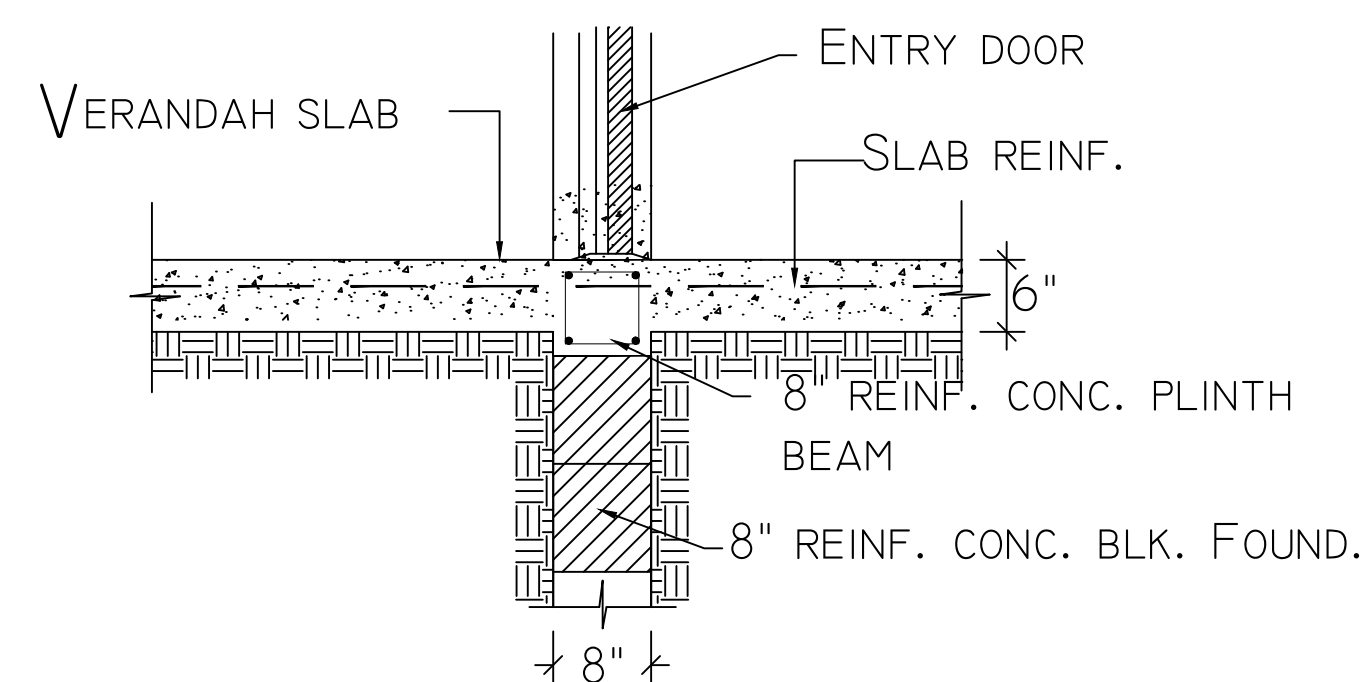
D01 RIDGE DETAIL
SCALE: 3/4"=1'



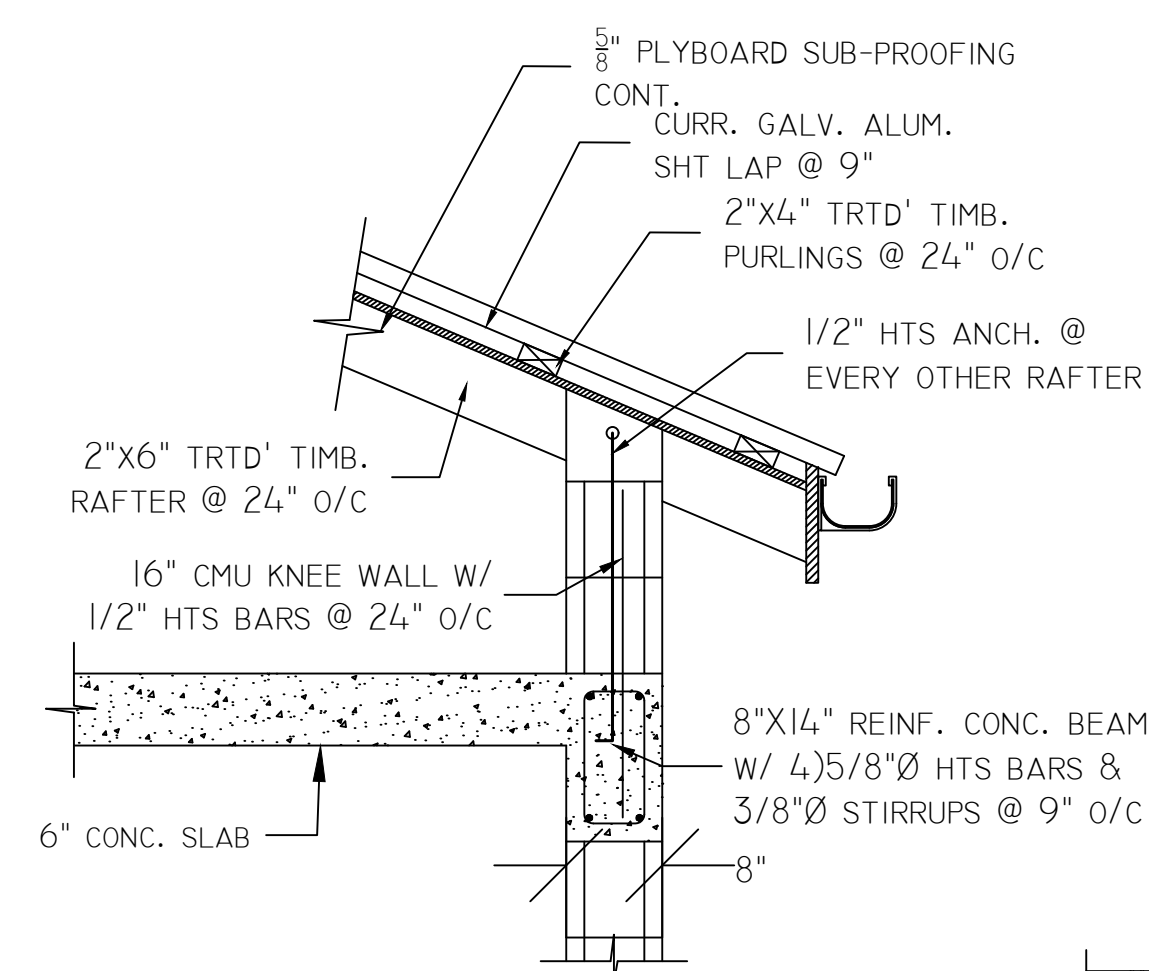
WD-4 PARTITION JUNCTION DET.
SCALE: 3/4"=1'



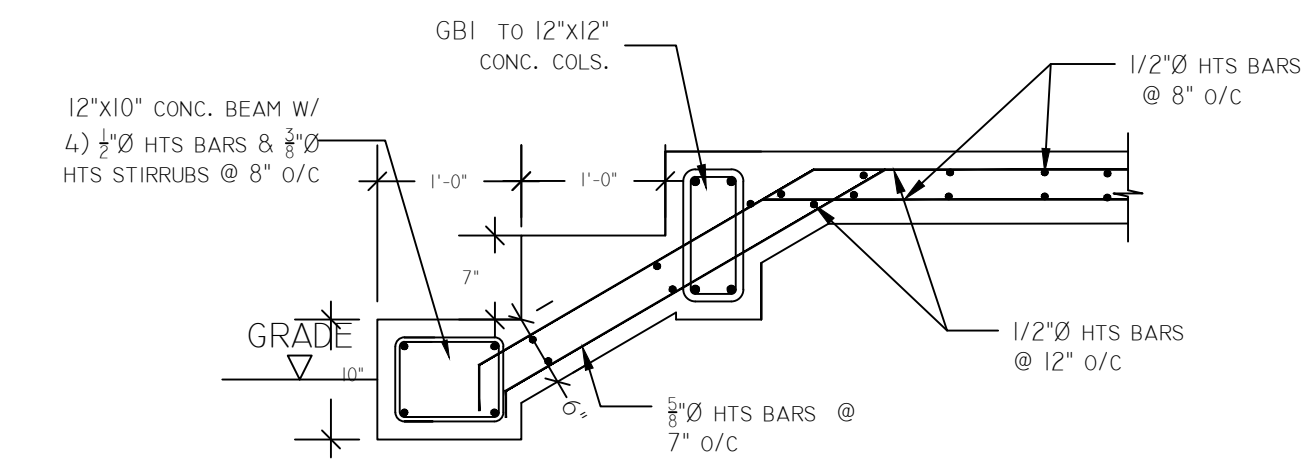
WD-5 WALL JUNCTION DET.
SCALE: 3/4"=1'-0"



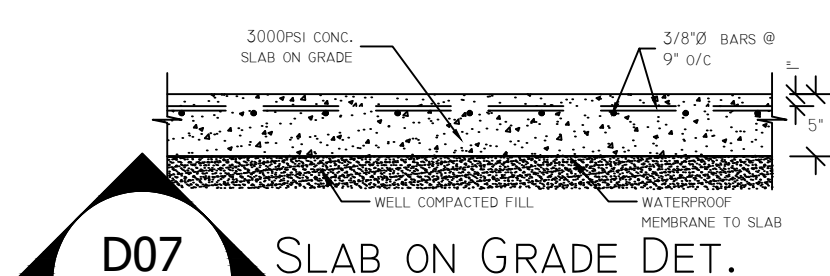
D03 Typ. Slab-On-Grade Det.
SCALE: 3/4"=1'



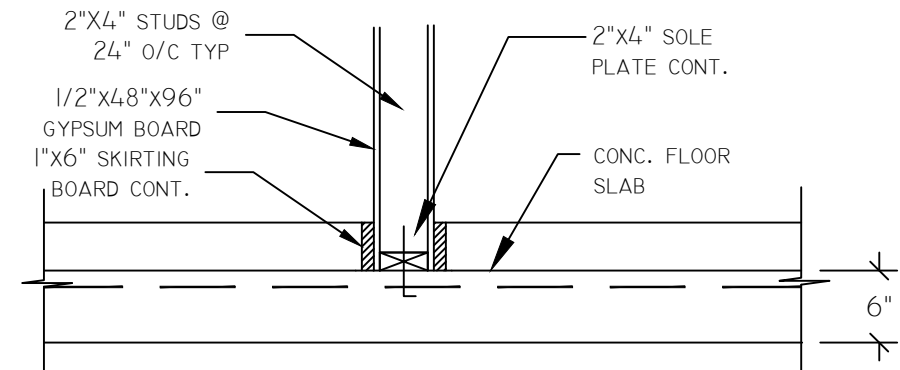
D05 EAVE DETAIL
SCALE: 3/4"=1'



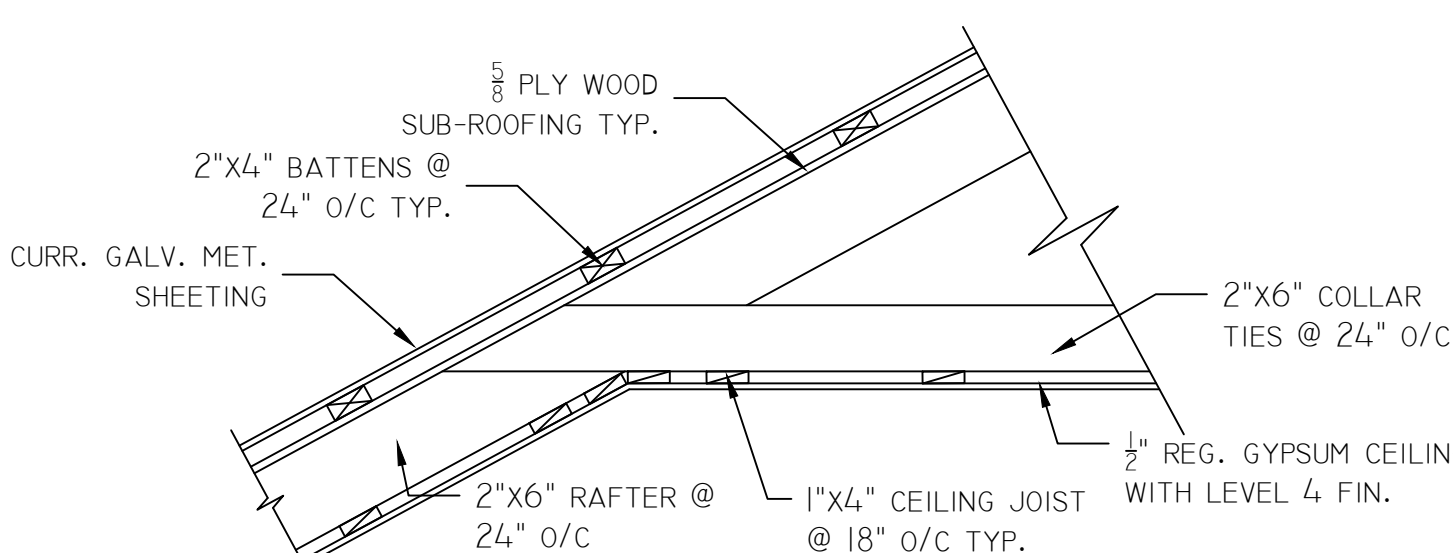
D06 TYP. STEP SECTION
SCALE: 3/4"=1'



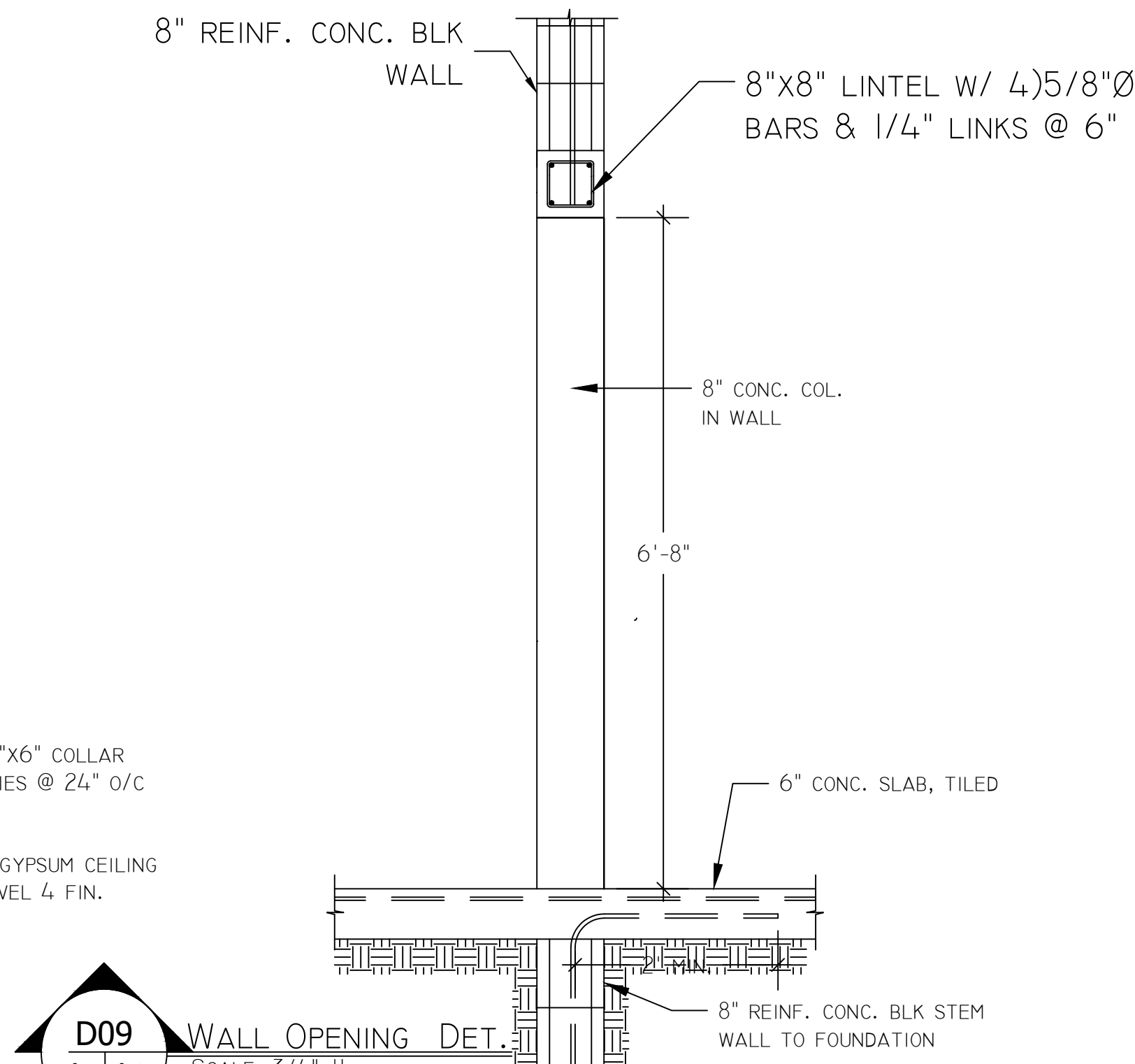
D07 SLAB ON GRADE DET.
SCALE: 3/4"=1'



D04 TIMB. WALL TO SLAB DET
SCALE: 3/4"=1'



D08 TYP. CEILING DETAIL
SCALE: 3/4"=1'



D09 WALL OPENING DET.
SCALE: 3/4"=1'

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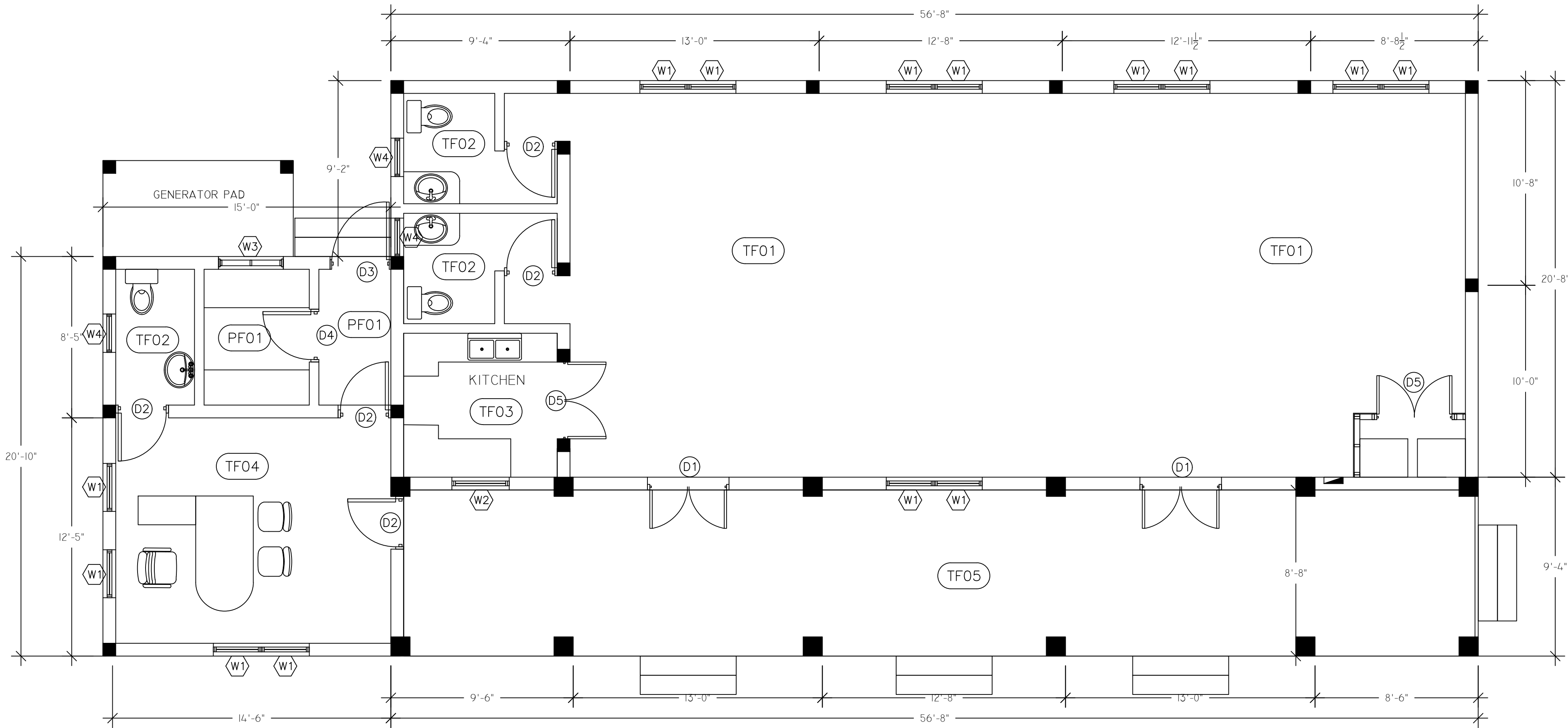
A05 - SCHEDULES

NOTES

THE ANTIGUA FORESTRY DEPARTMENT
SHALL DETERMINE FINAL OPTIONS FOR
DOORS AND WINDOWS ETC.

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

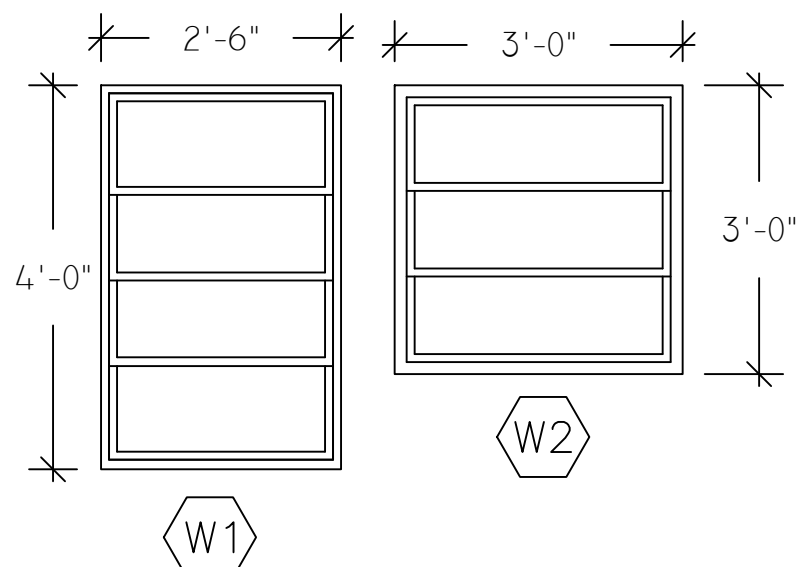
Date:
11th May/2023



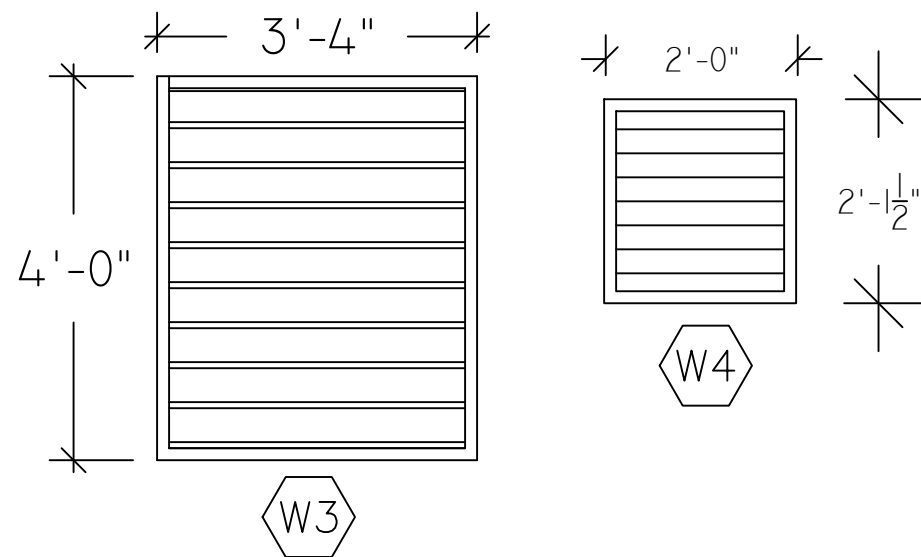
DOOR & WINDOW SCHEDULE

SCALE: 1/4"=1'-0"

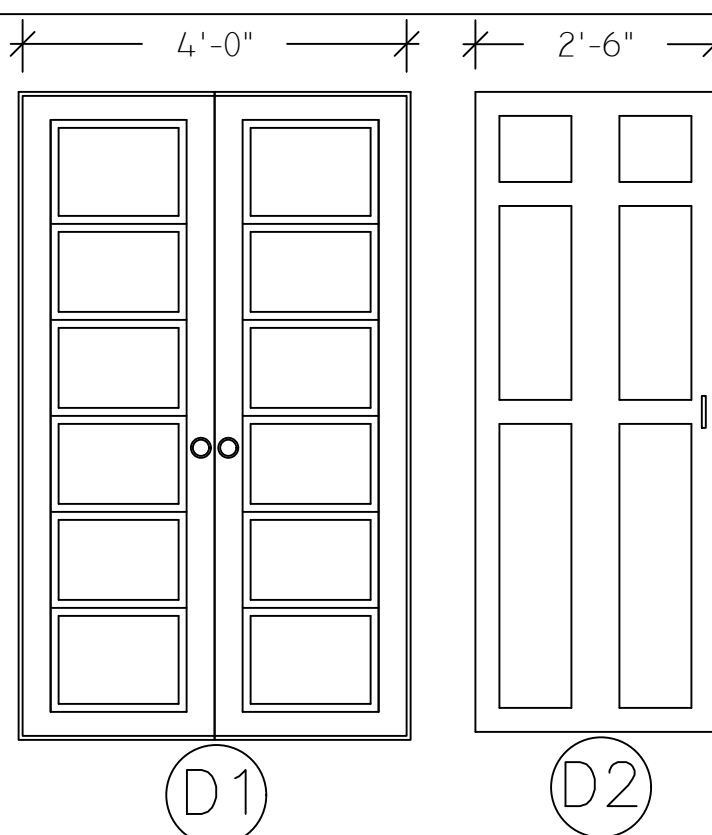
CODE NO.:	W1	W2
STYLE:	AWNING LOUVER	AWNING LOUVER
COMPOSITION:	8 INCH BLADES	8 INCH BLADES
MATERIAL:	GLASS, ALUM.	GLASS, ALUM.
SIZE:	30"W x 48"H	36"W x 36"H
COLOR:	WHITE	WHITE
FINISH:	POLISHED	POLISHED
LOCKS/ CLOSING:	OPERATOR	OPERATOR
QUANTITY:	14	01



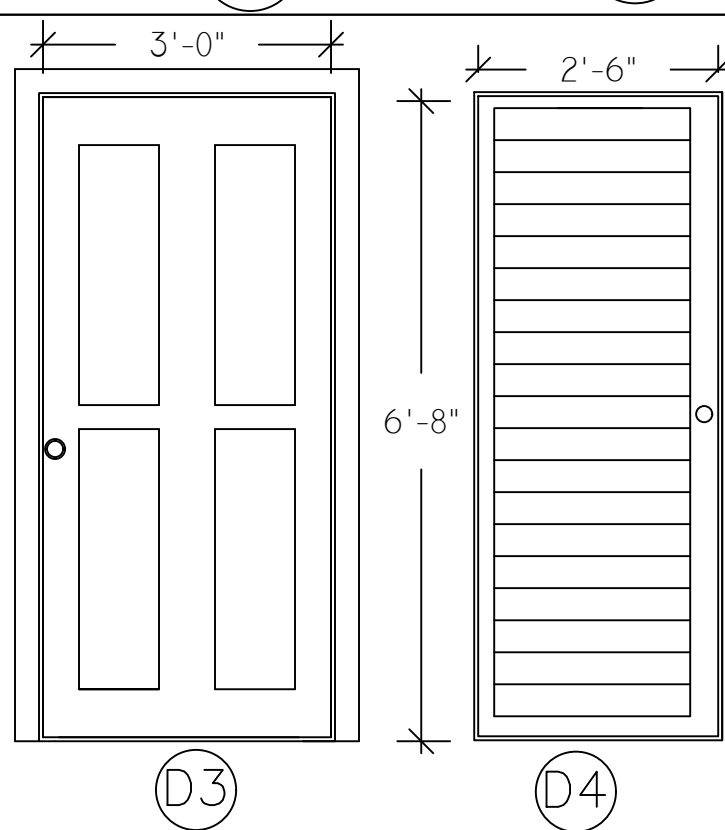
CODE NO.:	W3	W4
STYLE:	FIXED LOUVER	MIAMI LOUVER
COMPOSITION:	1"x3" LUMBER	6 INCH BLADES
MATERIAL:	TIMBER	ALUM.
SIZE:	40"W x 48"H	24"W x 25.5"H
COLOR:	PAINTED	WHITE
FINISH:	N/A	POLISHED
LOCKS/ CLOSING:	SCREENS	OPERATOR
HINGE:	-	-
QUANTITY:	01	03



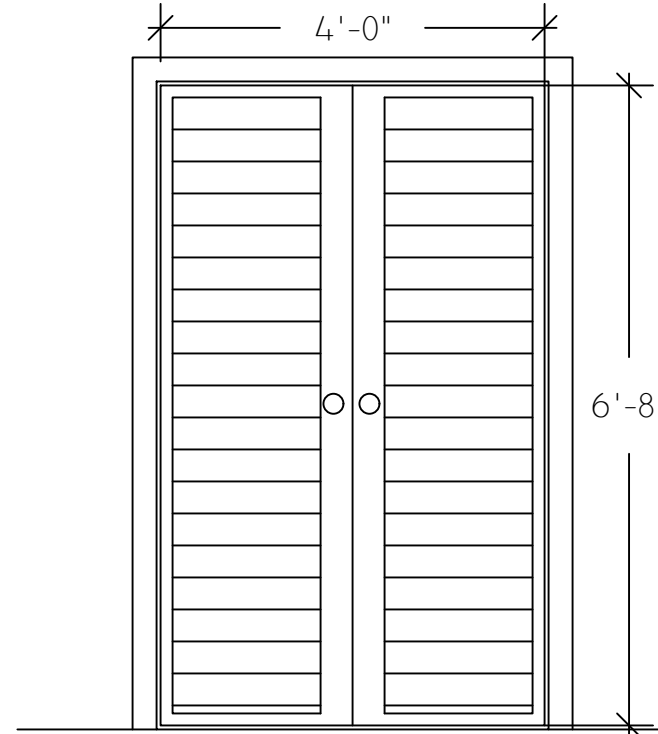
CODE NO.:	D1	D2
STYLE:	DOUBLE LEAF	SINGLE LEAF
COMPOSITION:	SOLID PANEL	SOLID COLONIAL 6 PANEL
MATERIAL:	TIMBER	TIMBER
SIZE:	48" W x 80" H	30" W x 80" H
COLOR:	WHITE	WHITE -
FINISH:	PAINTED	PAINTED
LOCKS/CLOSING:	DEADBOLT COMB.	DEADBOLT COMB
HINGE:	4" BRASS	4" BRASS
QUANTITY:	02	05



CODE NO.:	D3	D4
STYLE:	SINGLE LEAF	SINGLE LEAF
COMPOSITION:	4 PANEL	JALOUSIE
MATERIAL:	ALUM.	TIMBER
SIZE:	36" W x 80" H	30" W x 80" H
COLOR:	WHITE	TBD
FINISH:	FACTORY INSTALLED	PAINTED
LOCKS/ CLOSING:	DEAD BOLD COMB.	ENTRY LOCK
HINGE:	4" BRASS	4" BRASS
QUANTITY:	01	01

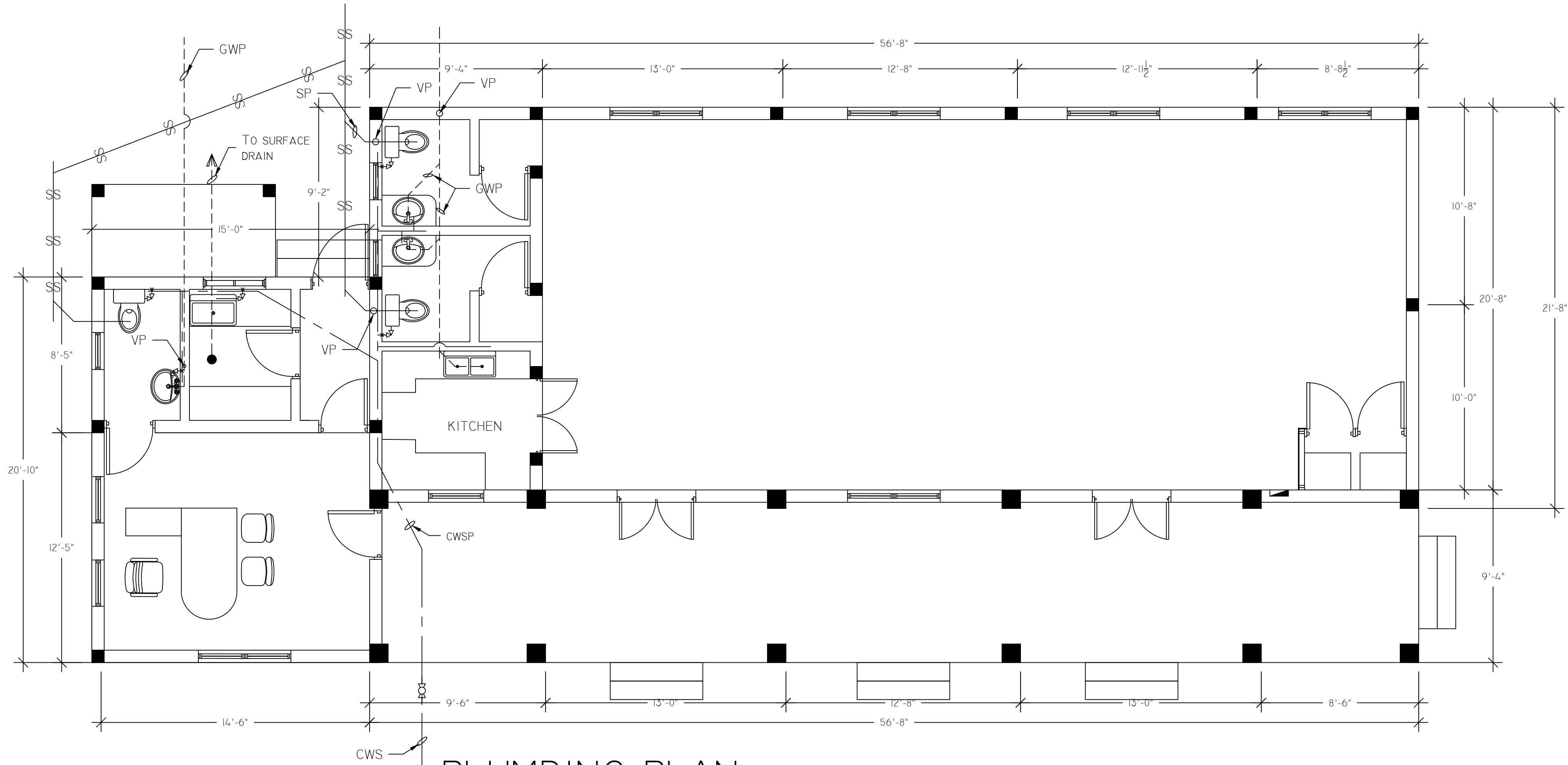


CODE NO.:	D5
STYLE:	DOUBLE LEAF
COMPOSITION:	JALOUSIE
MATERIAL:	SOLID TIMBER
SIZE:	48" W x 80" H
COLOR:	TBD
FINISH:	PAINTED
LOCKS/ CLOSING:	CLOSER
HINGE:	4" BRASS
QUANTITY:	02



DOOR & WINDOW SCHEDULE

SCALE: 1/2"=1'-0"



PLUMBING PLAN

SCALE: 1/4"=1'-0"

PLUMBING SCHEDULE			
SYM	DESCRIPTION	TYPE	LOC
	DOMESTIC WASTE WATER PIPE	1 1/2" Ø PVC SCH 40	STOREROOM
	WATER SUPPLY LINE	3/4" Ø 8 PVC SCH 40	STOREROOM
	ANGLE VALVE TO EACH FIXTURE	PLASTIC	STOREROOM
	PVC BALL VALVE @ SUPPLY LINE	PVC BALL VALVE	YARD
	3" Ø CLEAN OUT @ 14' 0"/C	PVC SCH 40	STOREROOM
	3" FLOOR DRAIN W/ METAL COVER	STAINLESS STEEL	STOREROOM
	2" VENT CPVC PIPE	CPVC SCH 40	STOREROOM

PLUMBING SPECIFICATIONS			
SYM	DESCRIPTION	SPECIFICATION	END
WS	WATER SERVICE	1/2" PVC SCH 40 PIPE TO TRANSMIT WATER TO ALL PLUMBING FIXTURES	YARD SUPPLY
CWSP	COLD WATER SUPPLY PIPE	1/2" PVC SCH 40 PIPE TO TRANSMIT WATER TO ALL PLUMBING FIXTURES	YARD SERVICE
GWP	2" PVC GRAY WATER PIPE GRADIENT 1:30 (MIN)	TRAPS SHALL BE SUPPLIED WITH THE FITTING TO WHICH THEY WILL BE ATTACHED. ALL TRAPS SHALL HAVE MINIMUM WATER SEAL OF 2".	YARD TRENCH
SP	4" PVC SOIL PIPE GRADIENT 1:40 (MIN)	4" PVC SCH 40 PIPE TO TRANSMIT SOIL WATER TO THE SEWER, ALL WATER CLOSETS SHALL BE TRAPPED AS CLOSELY AS POSSIBLE TO THE FIXTURE OUTLET, TRAPS SHALL HAVE MINIMUM WATER SEAL OF 3"	SOIL SEWER
SS	6" PVC SOIL SEWER GRADIENT 1:60 (MIN)	6" PVC SCH 40 PIPE TO TRANSMIT SOIL WATER TO THE SEWER.	SEPTIC TANK
VP	2" PVC VENT PIPE	2" PVC SCH 40 PIPE VENTING ALL TRAP TO A HEIGHT OF NOT LESS THAN 24" ABOVE THE ROOF VENTS SHALL EXTEND NOT LESS THAN 1'-0" ABOVE THE EAVE AND NOT LESS THAN 3'-0" ABOVE THE HEAD OF ANY WINDOW THAT IS 10'-0" OR LESS AWAY	OPEN



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CENTER

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SHEET:

P01 - PLUMBING PLAN
& DETAILS

NOTES

UNLESS OTHERWISE STATED ALL DIMENSIONS ARE TO BE TAKEN AS REPRESENTED ON DRAWINGS

PIPE WORK
ALL CHANGES IN DIRECTION IN THE HORIZONTAL PLANE FOR SANITARY AND WASTE PIPES SHALL BE FITTED WITH A CLEAN OUT. ALL PIPES SHALL BE FIXED AT 10FT INTERVALS TO A MIN. DEPTH OF 18" FOR PIPES 2" OR LARGER AND 12" FOR SMALLER PIPES.

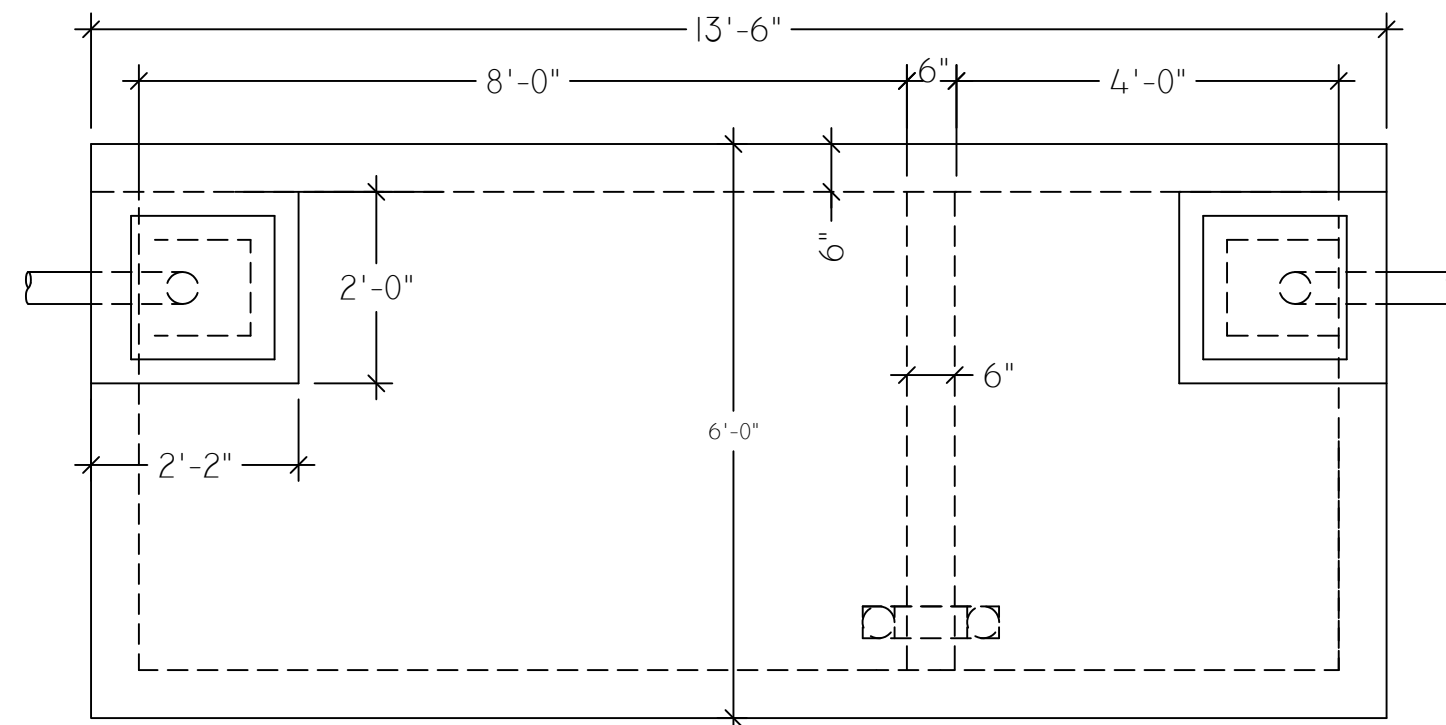
Scale:

1/4" = 1'-0"

Date:

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SEPTIC TANK PLAN VIEW

SEPTIC TANK SIZE

- 8 EMPLOYEES
- OTHER USERS 8 PERSONS
- TOTAL PERSONS = 16

CONSUMPTION

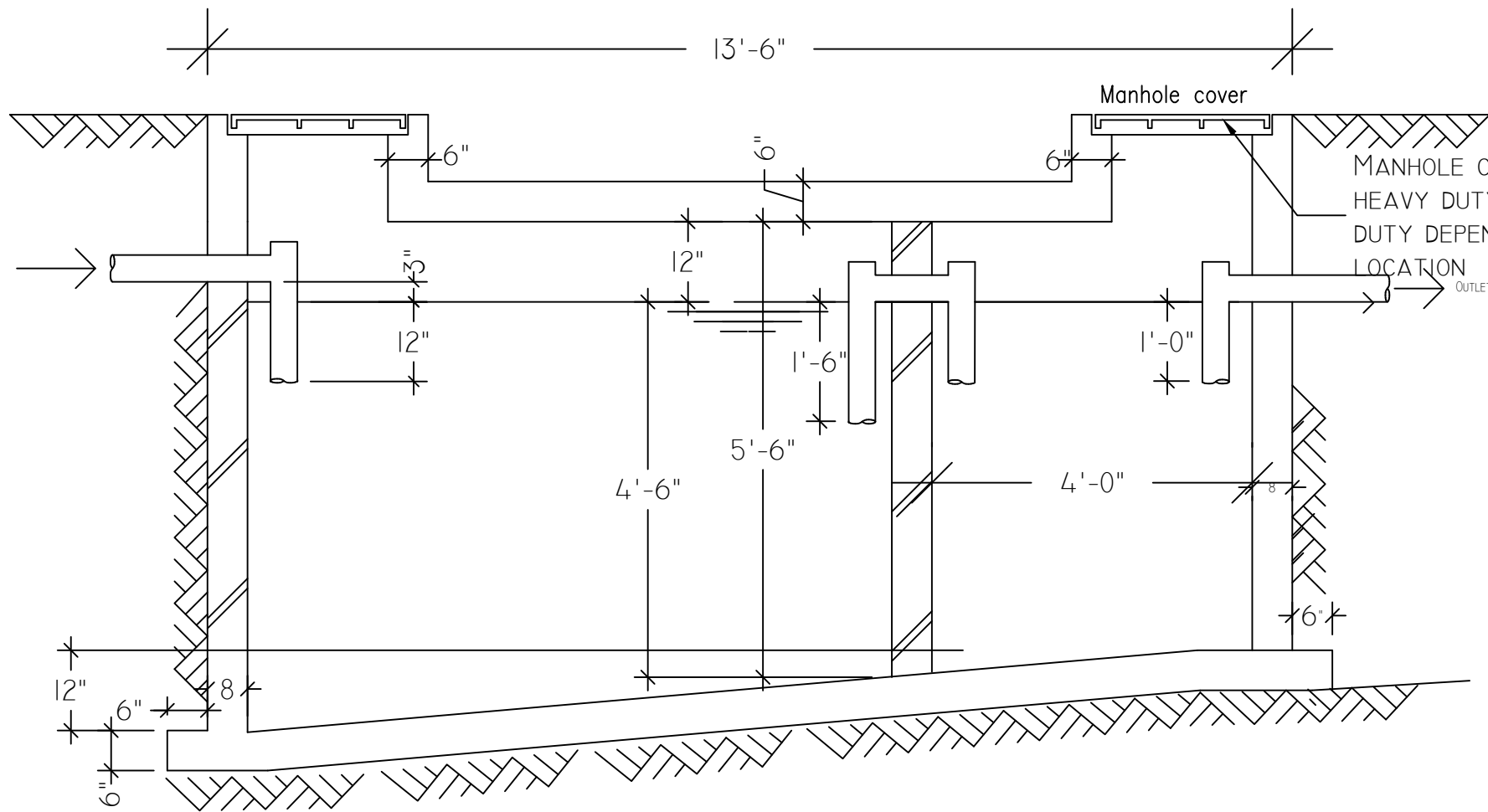
150GAL/DAY/PERSON ==> 2400GPD

WASTE PRODUCTION

80%(CONSUMPTION) ==> 1920GPD

SIZE OF SEPTIC TANK

13.5' x 5'



Note:

Septic tanks are to be constructed in accordance with the designs which have been approved by the Ministry of Health. The drawing here provided is for a typical single family dwelling and may not be the same as that provided by the Ministry.

Top and Bottom Slabs:

6" reinforced concrete with 1/2" dia. bars at 9" centres transversely and 3/8" dia. bars at 12" centres longitudinally.

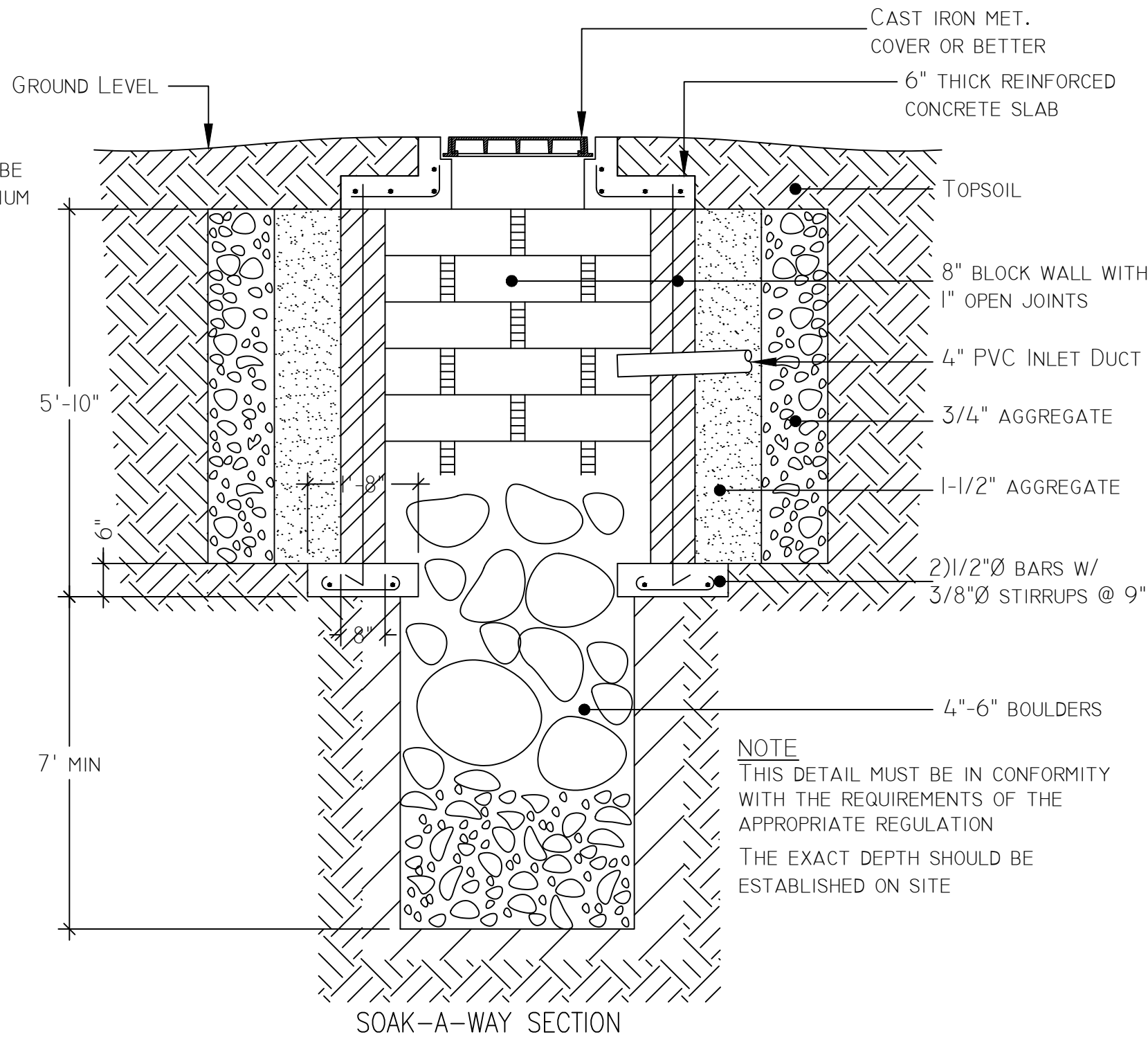
Slope of bottom slab to be 1/4" to 1'-0".

Access hatches to be patented cast iron or steel covers 18" square, or of 4" thick concrete with 4" mesh reinforcement.

Walls:

6" reinforced concrete with 1/2" dia. bars at 8" vertically and 1/2" dia. bars at 16" horizontally, or:

6" concrete blocks filled with 1:3:6 concrete and with reinforcement every other course.
The inside face to be plastered with two courses of 3/8" thick cement mortar.



SOAK-A-WAY SECTION

GENERAL STRUCTURAL NOTES

1.0 BASIS FOR DESIGN

1.1 RELEVANT BUILDING CODES USED IN DESIGN:

1.1.1 AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-05)

1.1.2 AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530.1-05)

1.1.3 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301-99)

1.1.4 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES (ASCE 7-02)

1.1.5 CARIBBEAN UNIFIED BUILDING CODE (CUBiC)

1.2 DESIGN LOADS

1.2.1 LIVE LOADS CONFORMING TO ACI 318-05/LATEST & ASCE 7-02/LATEST

1.2.2 BASIC WIND SPEED:145 MPH; 3s GUST (ASCE 7-02)

1.2.3 EARTHQUAKE: ZONE 2a (CUBiC)

2.0 FOUNDATION

2.1 FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 8,000 PSF (383 kPa)

2.2 ALL FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED NATURAL SOIL OR CONTROLLED COMPACTED FILL, APPROVED BY THE ENGINEER. THE MATERIAL AT FOOTING GRADE SHALL BE INSPECTED BY AN ENGINEER PRIOR TO CONSTRUCTION. IF UNSUITABLE MATERIAL IS ENCOUNTERED, THE FOOTINGS/FOUNDATION SHALL BE LOWERED OR FOUNDED ON COMPACTED FILL OR AS OTHERWISE DIRECTED BY THE ENGINEER.

2.3 THE FOOTING ELEVATIONS IF SHOWN ON THE DRAWINGS ARE FOR ESTIMATION PURPOSES ONLY AND DESIGNATE A MINIMUM DEPTH OF FOOTING WHERE A SAFE SOIL BEARING PRESSURE IS EXPECTED. THE UNDERSIDE OF THE FOOTING/BASE SHALL BE LOWERED OR EXTENDED AS REQUIRED TO ACHIEVE THE REQUIRED DESIGN BEARING CAPACITY.

2.4 ANY REQUIRED FILL SHALL BE APPROVED GRANULAR MATERIAL AND SHALL BE PLACED IN LAYERS COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY AS DEFINED BY ASTM D1557 MODIFIED PROCTOR TEST. SHOULD GROUND WATER BE ENCOUNTERED ABOVE THE PROPOSED UNDERSIDE OF FOUNDATIONS, THE NATURAL SOIL SHOULD BE BLINDED WITH CONCRETE TO PREVENT SOFTENING. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF ALL ACCUMULATED WATER FROM EXCAVATIONS AND DE-WATERING OPERATIONS IN SUCH A MANNER AS NOT TO CAUSE DAMAGE TO THE WORKS OF THE ADJACENT PROPERTIES.

2.5 ALL ORGANIC OR OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM SUBGRADE AND BACKFILL AREAS & REPLACED WITH AN APPROVED CLEAN FILL MATERIAL COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY AS DEFINED BY ASTM D1557. BACKFILL MATERIAL SHOULD BE PLACED IN LAYERS, WHICH, BEFORE COMPACTION, SHALL NOT EXCEED 8" THICK. EACH LAYER SHALL BE SPREAD UNIFORMLY AND EVENLY AND SHALL BE THOROUGHLY MIXED DURING THE SPREAD TO ENSURE UNIFORMITY OF MATERIAL IN EACH LAYER.

3.0 CONCRETE

3.1 ALL REINFORCED CONCRETE SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318, LATEST & ACI 301-99).

3.2 CONCRETE MIXING, PLACEMENT, CURING AND QUALITY SHALL CONFORM TO THE RECOMMENDATIONS IN ACI 305 R-02, HOT WEATHER CONCRETING.

3.3 TIME BETWEEN CONCRETE BATCHING AND PLACEMENT SHALL BE IN ACCORDANCE TO ASTM C34 AND SHALL BE PLACED WITHIN 1.5 HRS OF BATCHING.

3.4 ALL CONCRETE SHALL BE CONSOLIDATED IN PLACE BY THE USE OF INTERNAL VIBRATORS. REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL SO AS TO CAUSE SEGREGATION OF AGGREGATES. UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 5 FEET.

3.5 ANY ADMIXTURE TO BE USED IN CONCRETE SHALL BE APPROVED BY THE ENGINEER PRIOR TO USAGE.

3.6 ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCEMENT DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. SHALL BE SECURELY POSITIONED IN FORMS.

4.0 REINFORCEMENT

4.1 ALL REINFORCING STEEL BARS SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI, LATEST & CRSI'S MANUAL OF STANDARD PRACTICE.

4.2 ALL REINFORCEMENT SHALL BE HIGH STRENGTH DEFORMED BARS CONFORMING TO ASTM A615, LATEST. ALL BARS SHALL BE GRADE 60, EXCEPT FOR VERTICAL REINFORCEMENT IN BLOCK WALLS & STIRRUPS OR TIES MAY BE GRADE 40.

4.3 WELDED WIRE FABRIC SHALL CONFIRM TO THE REQUIREMENTS OF ASTM A185-02 AND SHALL BE LAPPED ONE FULL MESH PLUS 2" MINIMUM AT SIDES AND END SPLICES AND WIRED TOGETHER.

4.4 REINFORCEMENT PROTECTION (CONCRETE COVER)

MINIMUM CONCRETE COVER TO ALL STEEL SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:

4.4.1 CONCRETE CAST AGAINST AND PERMANENT EXPOSED TO EARTH: 3"
4.4.2 CONCRETE POURED AGAINST FORMS; EXPOSED TO EARTH OR WEATHER (INCLUDES SLABS ON GRADES): 2"

4.3 CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
A) STRUCTURAL SLABS, WALLS: 3/4"
B) BEAMS, COLUMNS (PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS): 1-1/2"

4.5 NO SPLICES OF REINFORCEMENT SHALL BE MADE EXCEPT AS DETAILED OR AUTHORIZED BY THE ENGINEER. NO TACK WELDING OF REINFORCING BARS IS ALLOWED.

LAP SPLICES WHERE PERMITTED SHALL BE AS FOLLOWS:

Minimum lap for 3/8" Dia. bars 1'-6"
Minimum lap for 1/2" Dia. bars 2'-0"
Minimum lap for 5/8" Dia. bars 2'-6"

4.6 CONTINUOUS TOP AND BOTTOM BARS IN BEAMS SHALL BE SPLICED AS FOLLOWS:
4.6.1 TOP BARS NEAR/AT MID-SPAN (MIDDLE THIRD) AND HOOKED AT NON-CONTINUOUS EDGE.
4.6.2 BOTTOM BARS SPLICED NEAR/OVER SUPPORTS.
4.6.3 TOP BARS CENTERED OVER SUPPORTS UNLESS OTHERWISE NOTED.

4.7 CONTRACTOR TO PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT POSITIONS SHOWN IN THE DRAWINGS. ALL REINFORCEMENT TO BE HELD SECURELY IN PROPER POSITION IN ACCORDANCE WITH ACI 318-05. ALL ACCESSORIES TO BE GALVANIZED.

4.8 ALL TIES AND STIRRUPS SHALL BE 135deg. SEISMIC HOOKS IN ACCORDANCE WITH ACI 318-05.

5.0 MASONRY AND PARTITIONS

5.1 ALL MASONRY CONSTRUCTION AND DETAILS SHALL CONFORM TO THE CURRENT PROVISIONS OF THE BUILDING CODE REGULATIONS FOR MASONRY STRUCTURES -ACI 530 (ASCE 5), AND SPECIFICATIONS FOR MASONRY STRUCTURES - ACI 530.1 (ASCE 6).

5.2 ALL REINFORCED CONCRETE BLOCKWORK SHALL BE CONSTRUCTED USING TWO AND THREE CELL MASONRY UNITS ONLY, UNLESS OTHERWISE DETAILED.

5.3 WALLS SHALL BE REINFORCED HORIZONTALLY AT 2' O.C. THE WIRE SHALL CONFORM TO ASTM A82 -01, STANDARD GAGE, GALVANIZED UNLESS SHOWN OTHERWISE.

5.4 FILL ALL FOUNDATION BLOCK CELLS WITH CONCRETE OF 3,000 PSI 28 DAY STRENGTH.

6.0 GENERAL

6.1 CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS, ELEVATIONS AND SITE CONDITIONS PRIOR TO START OF CONSTRUCTION. THE CONSULTANT/ARCHITECT SHALL BE NOTIFIED, IN WRITING, IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES. IN NO CASE SHALL DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THESE DRAWINGS. FIGURED DIMENSIONS ARE TO BE USED ONLY.

6.2 ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSULTANT/ARCHITECT AND RESOLVED BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.

6.3 STRUCTURAL DRAWINGS SHALL BE COORDINATED AND READ WITH ALL RELEVANT ARCHITECTURAL AND CIVIL DRAWINGS.

6.4 WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR WORK OR OTHERWISE SPECIFIED BY THE ENGINEER.

6.5 NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER "GENERAL NOTES" AND TYPICAL DETAILS.

6.6 ENGINEER'S APPROVAL MUST BE SECURED FOR ALL STRUCTURAL SUBSTITUTIONS. ONCE APPROVED, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES AND SHALL COORDINATE ALL DETAILS OF SAID SUBSTITUTION.



TECHNICAL ASSISTANCE FOR THE DESIGN AND SUPERVISION OF SLM-BASED ECOSYSTEM AND BIODIVERSITY RESTORATION INITIATIVES, IN ST. KITTS AND NEVIS, AND ANTIGUA AND BARBUDA

CLIENT:

OECs COMMISSION MORNE FORTUNE, CASTRIES ST. LUCIA

PROJECT:

DEPT OF FORESTRY NURSERY - VISITORS CENTER

LOCATION:

BENDALS, ANTIGUA

SHEET:

S01 .1 SPECIFICATIONS

NOTES

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

Date:
11th May/2023

TECHNICAL ASSISTANCE
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NURSERY - VISITORS
CENTER

LOCATION:

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SHEET:

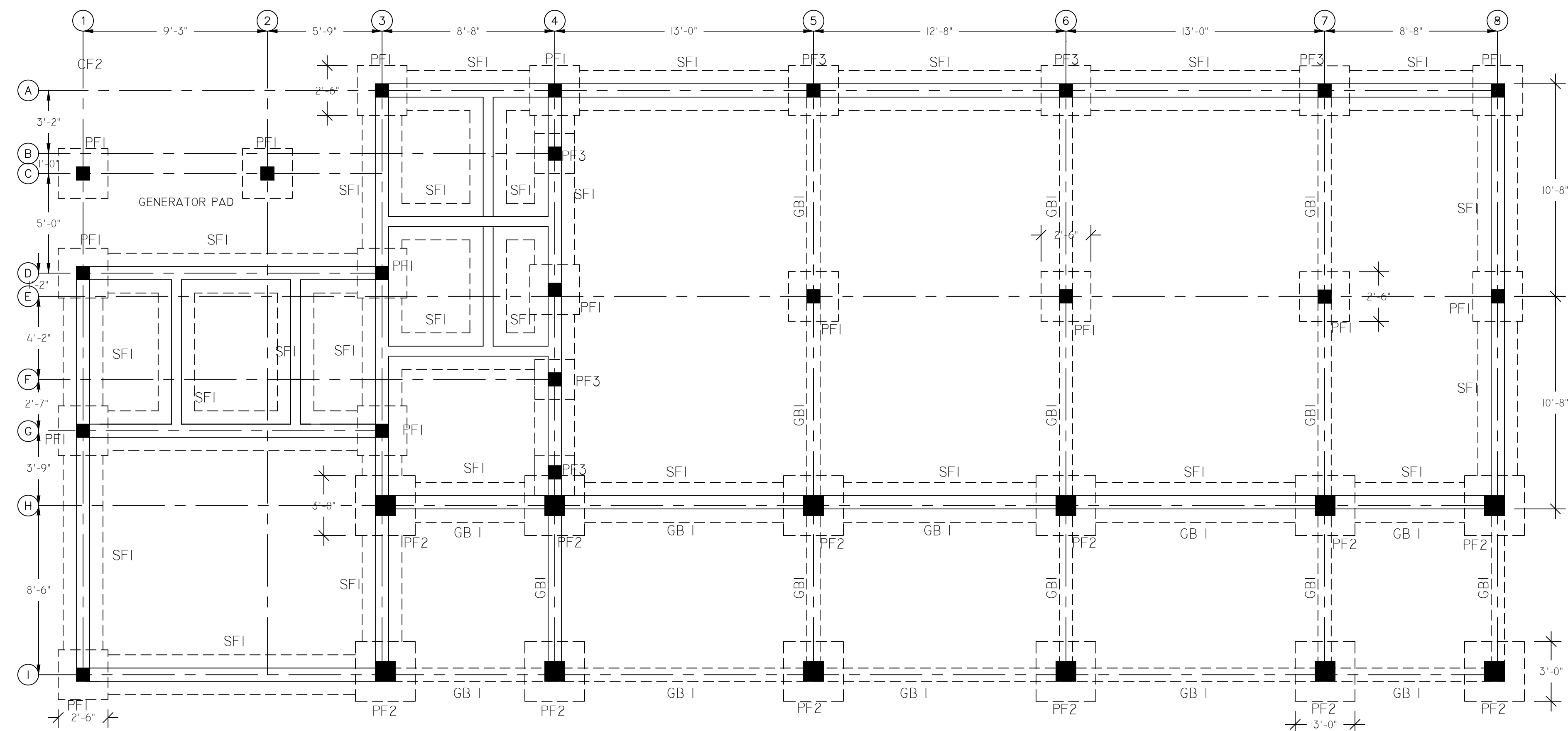
S01 - FOUNDATIONS

NOTES

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

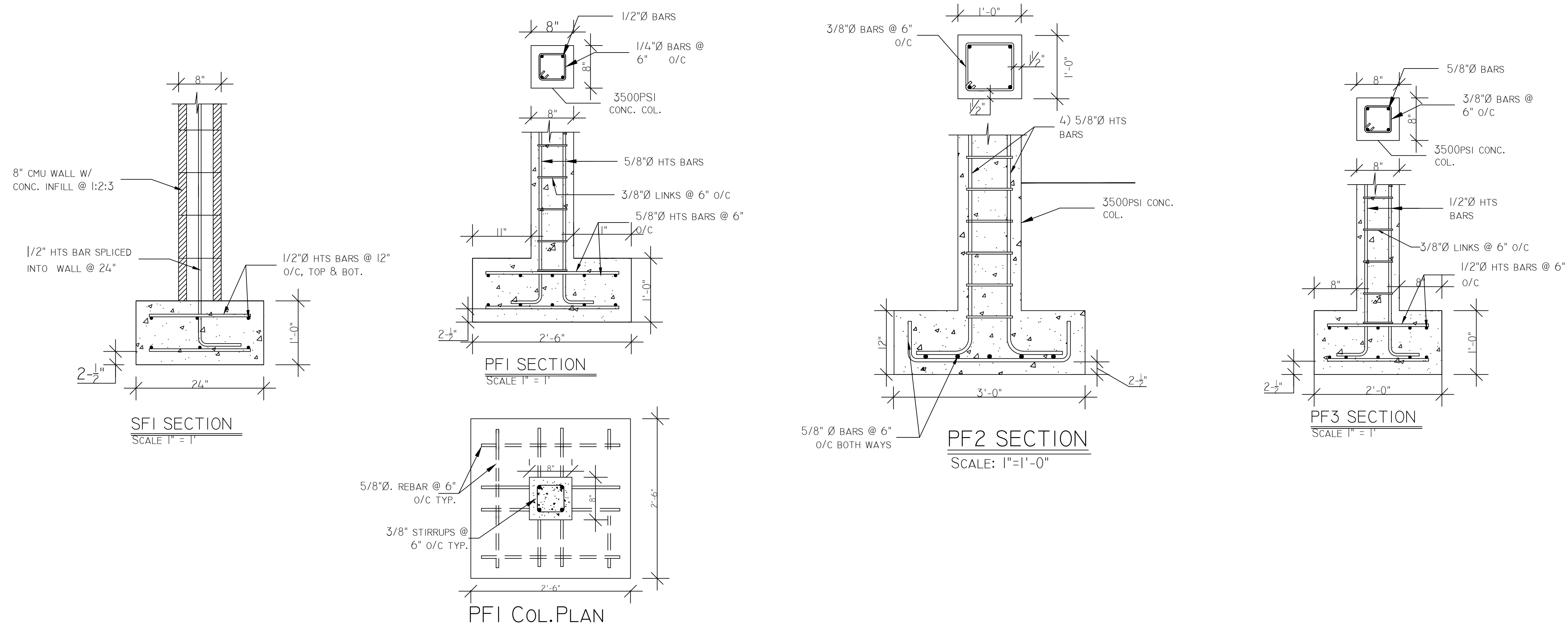
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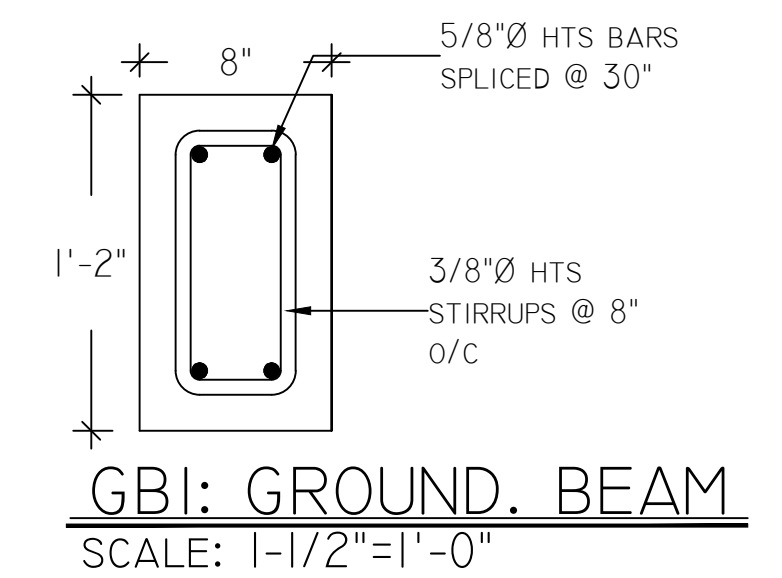
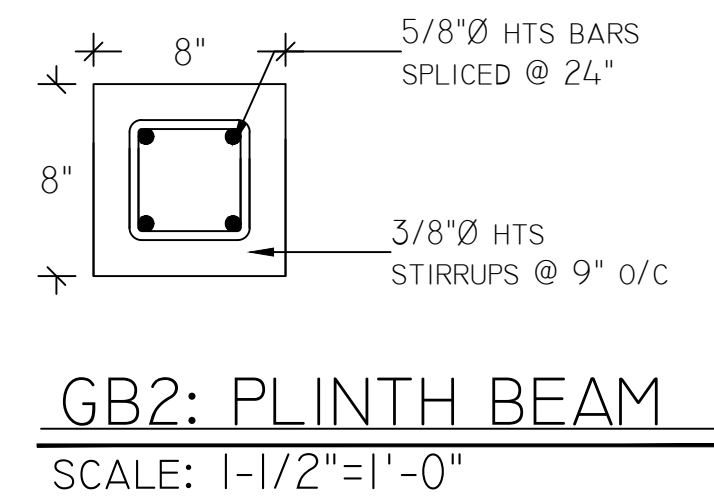
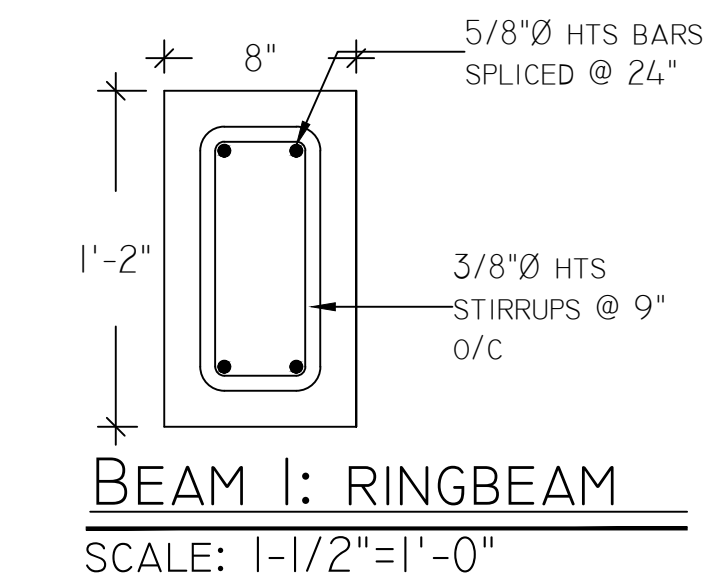
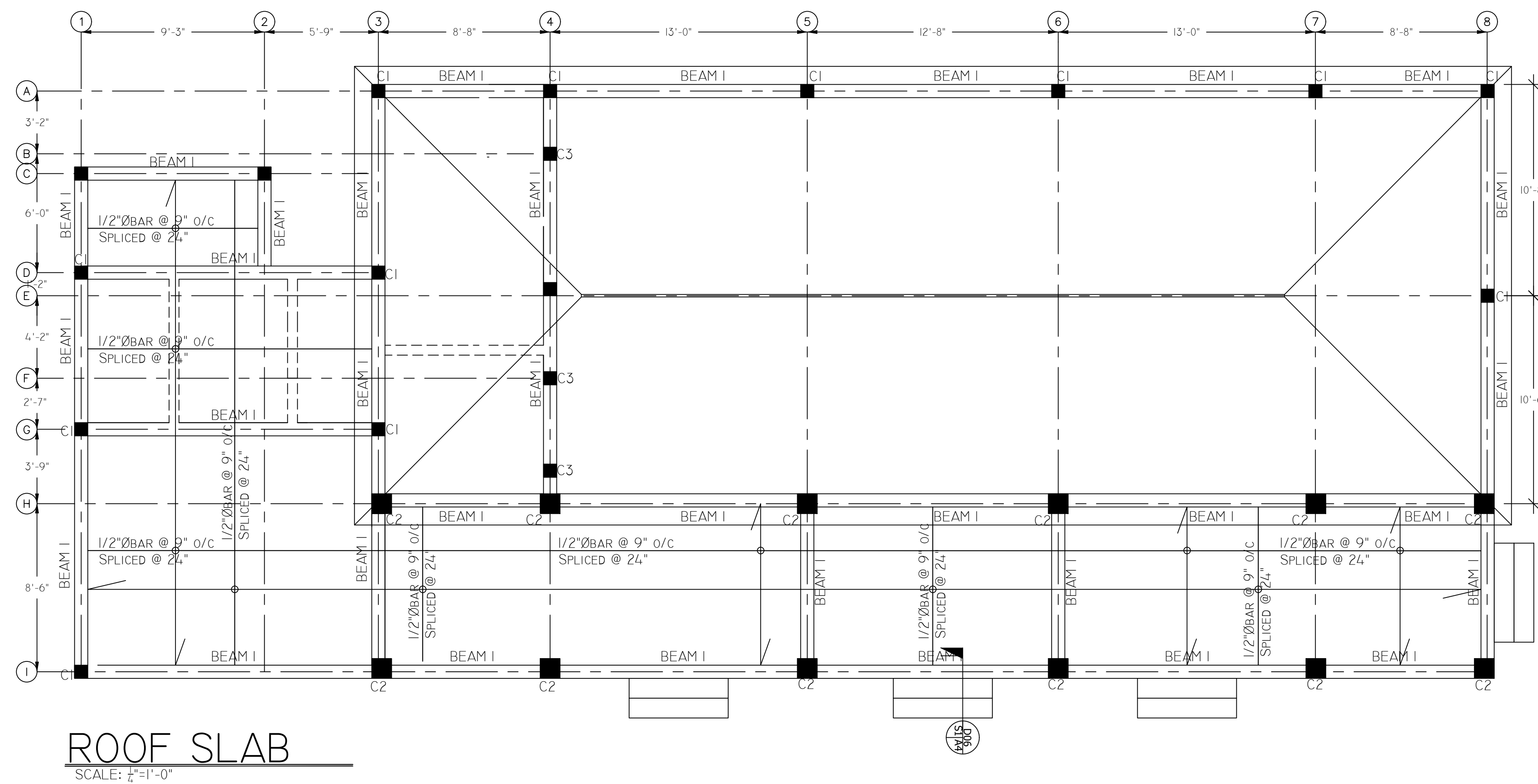
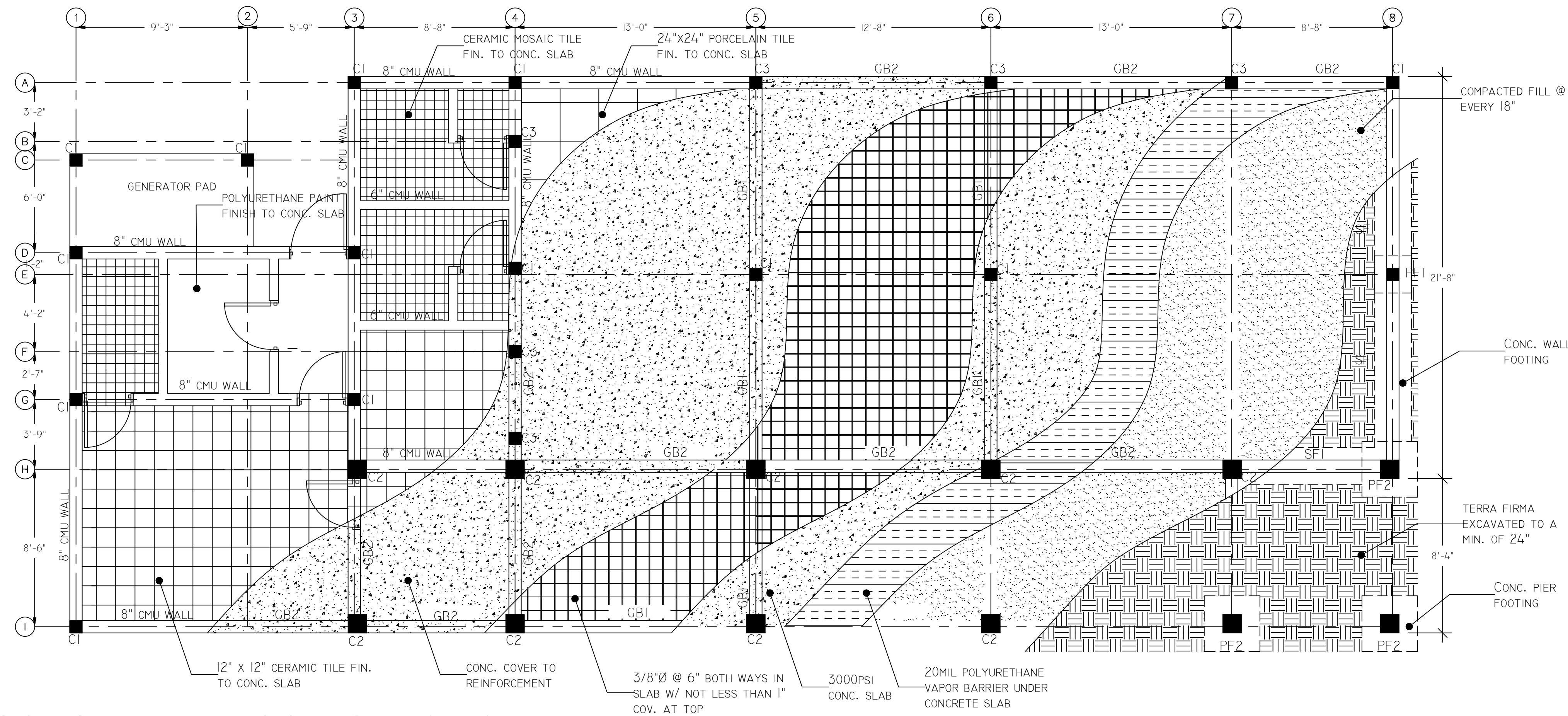
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FOUNDATION PLAN

SCALE: 1/4" = 1'-0"





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NURSERY - VISITORS
CENTER

LOCATION:

BENDALS, ANTIGUA

SHEET:

S02 - STRUCTURE LAYOUT

NOTES

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

Date:
11th May/2023



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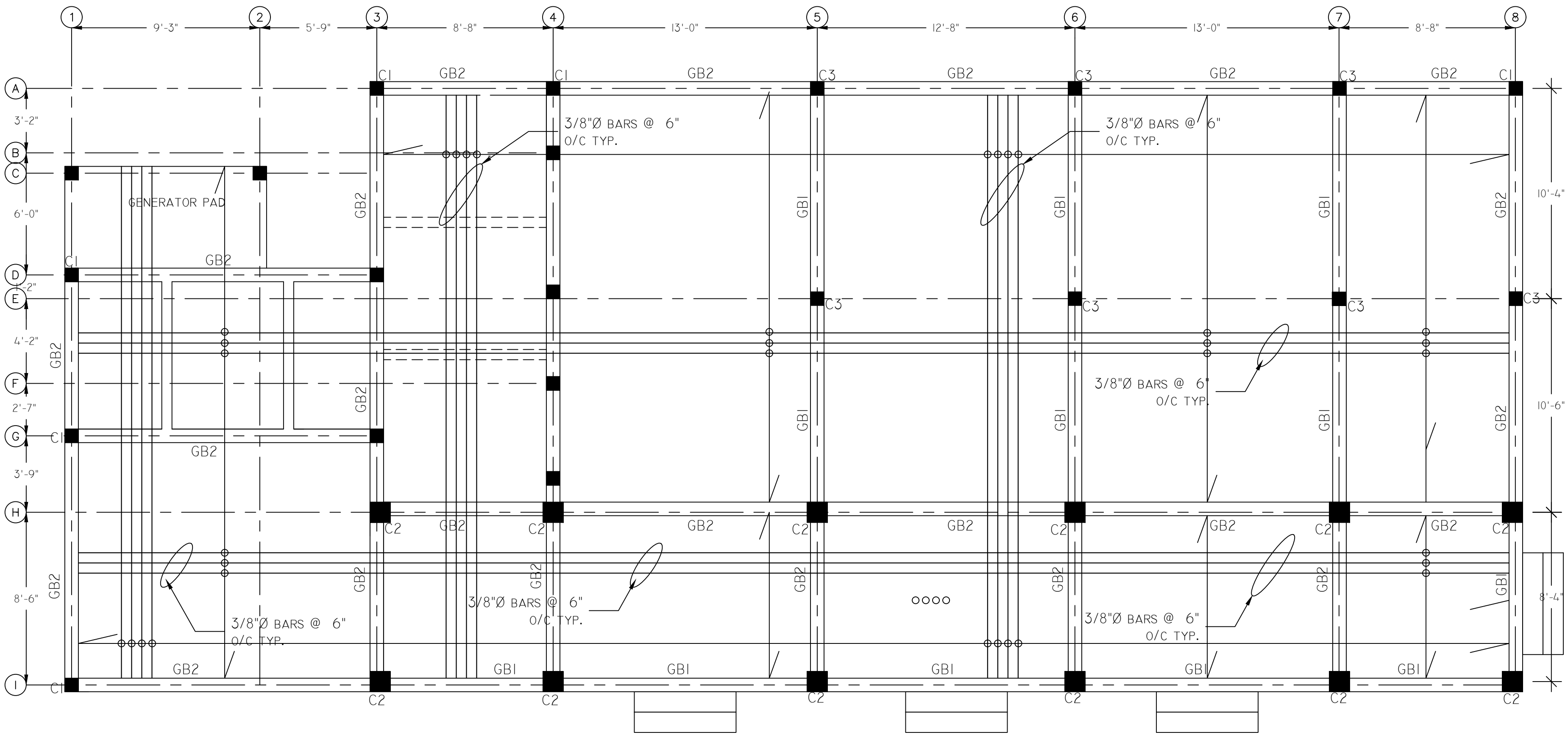
S03 - STRUCTURE
LAYOUT

NOTES

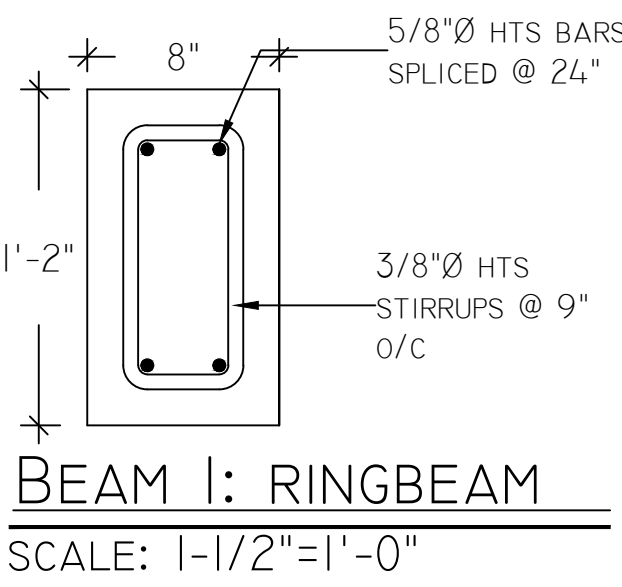
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Date:
11th May/2023

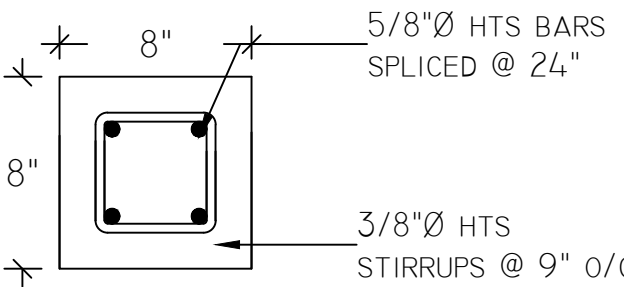
The Consortium of Caribbean Architects and Planners
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Kelvin Swanston's Company.



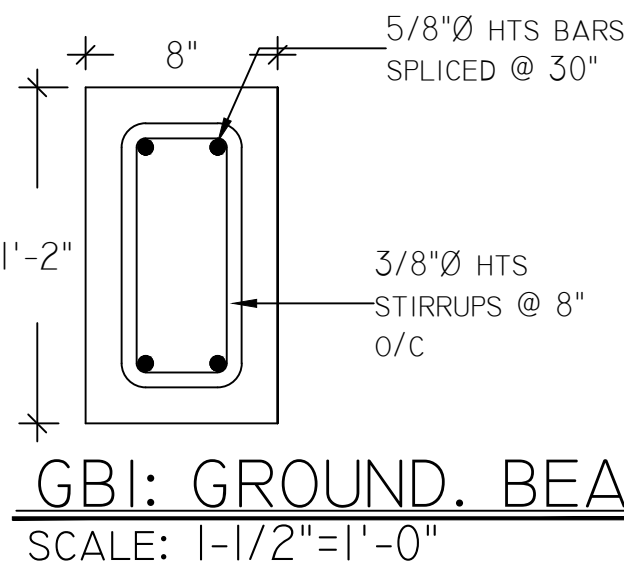
SLAB ON GRADE LAYOUT
SCALE: 1/4"=1'-0"



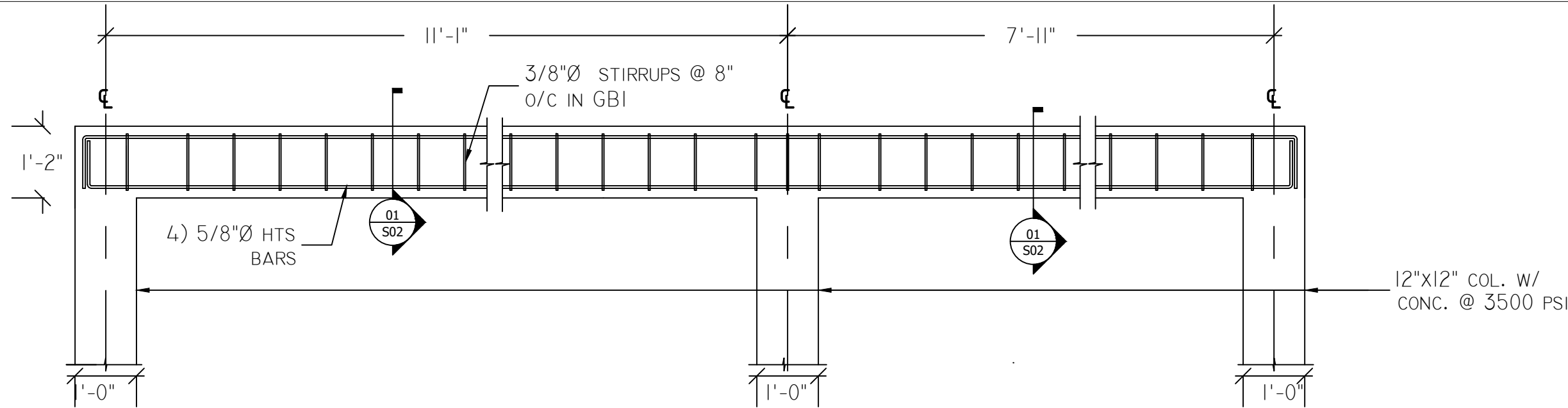
BEAM I: RINGBEAM
SCALE: 1-1/2"=1'-0"



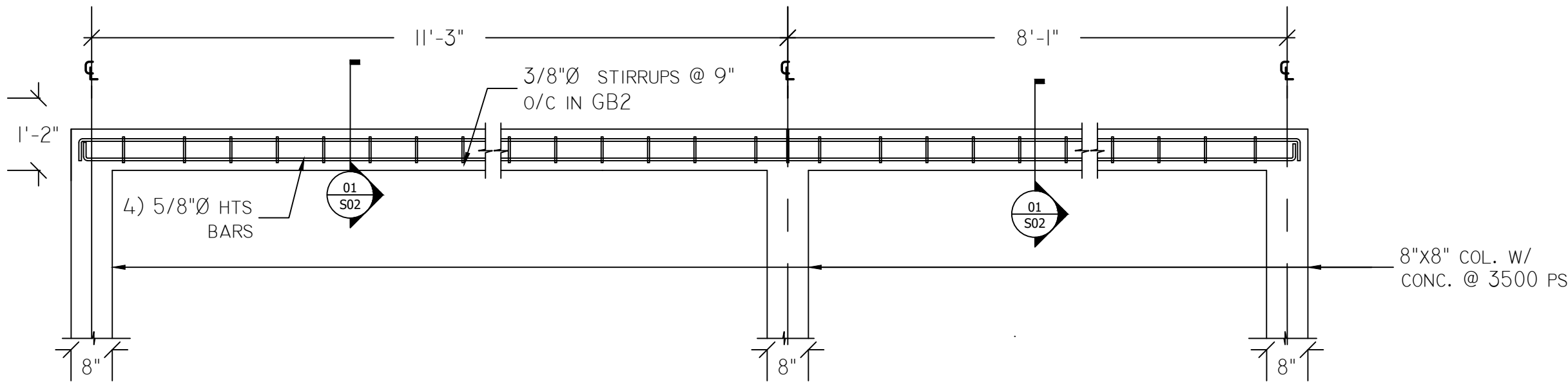
GB2: PLINTH BEAM
SCALE: 1-1/2"=1'-0"



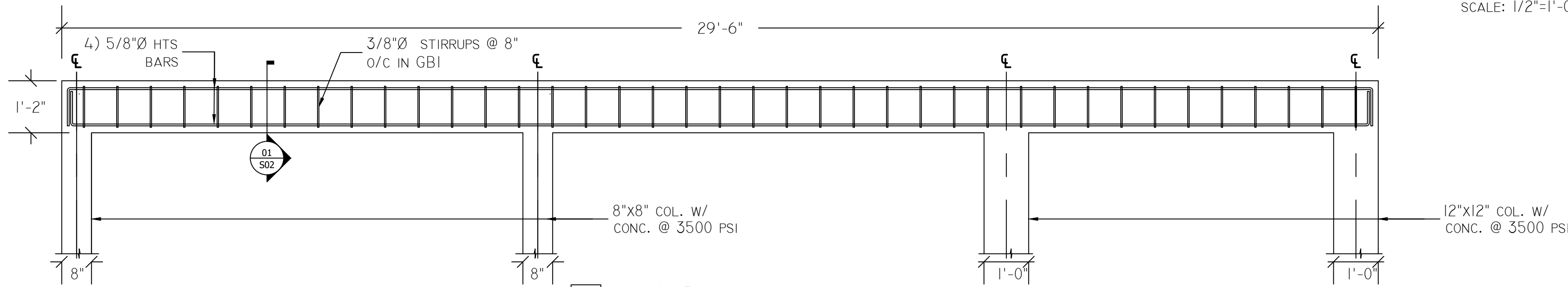
GBI: GROUND. BEAM
SCALE: 1-1/2"=1'-0"



SECTION 01
FLOOR BEAM ON GRIDLINES H & I
SCALE: 1/2"=1'-0"



SECTION 01
FLOOR BEAM ON GRID LINES A, D, G, H, I
& 1, 3, 4
SCALE: 1/2"=1'-0"



SECTION 01
FLOOR BEAM ON GRIDLINES 4, 5, 6 & 7
SCALE: 1/2"=1'-0"



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PROJECT:
DEPT OF FORESTRY
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CENTER

LOCATION:

BENDALS, ANTIGUA

SHEET:

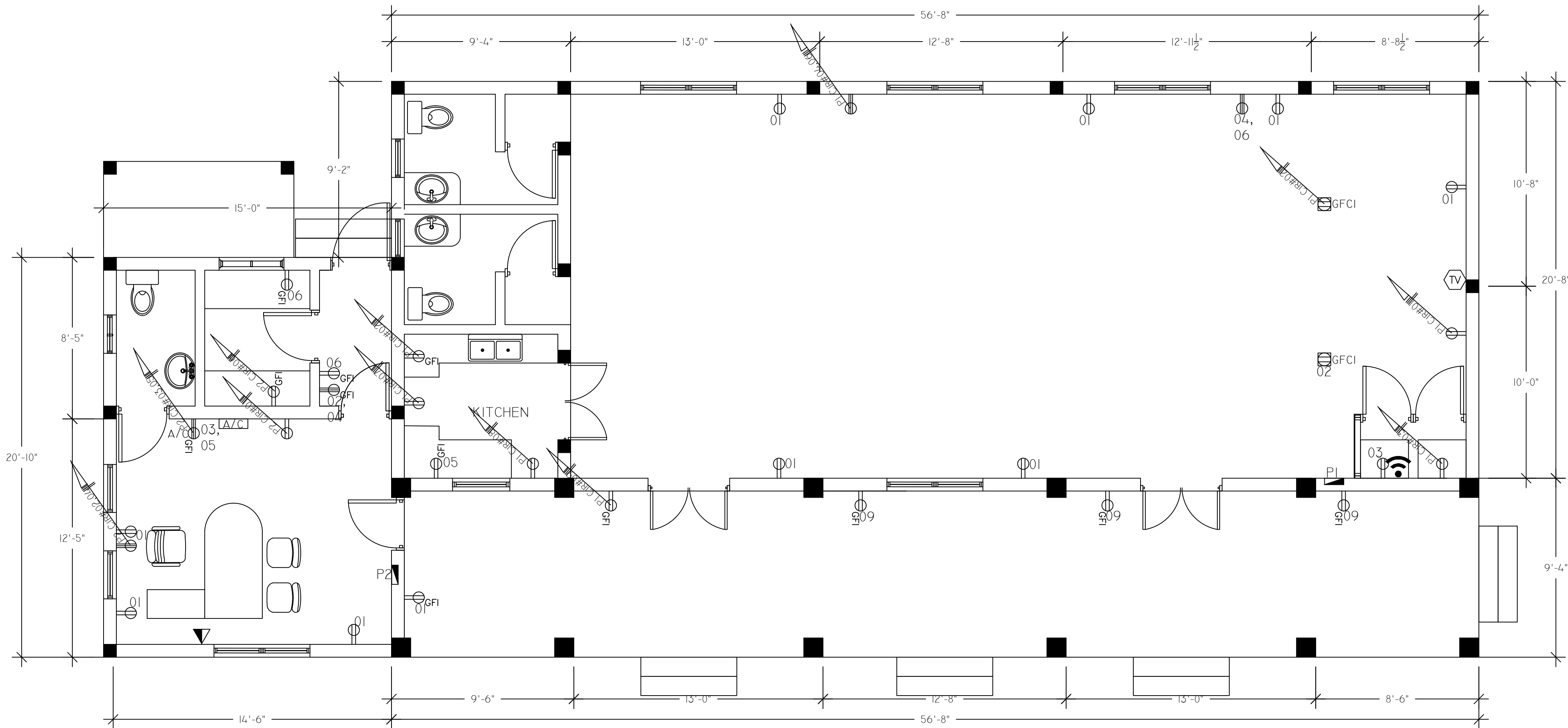
E01 -LIGHTING PLAN
SCHEDULE

NOTES

WHILST A STEP-DOWN TRANSFORMER IS
PROVIDED FOR, THE APUA WILL
DETERMINE IF Φ -3W SERVICE IS
AVAILABLE IN THE AREA.

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

Date:
11th May/2023



POWER PLAN




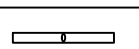

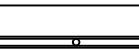



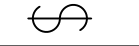
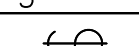
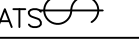
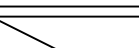
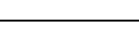



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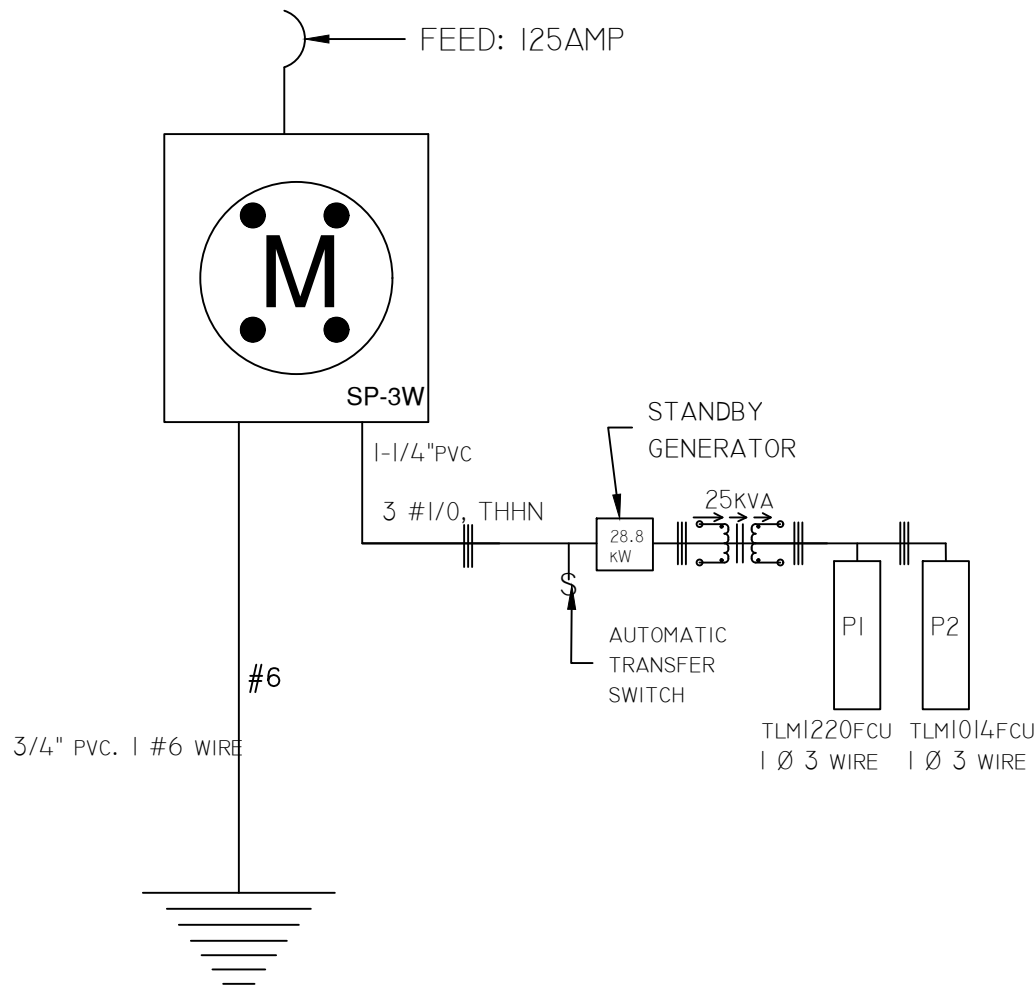
SCHEDULE - PANEL 1

PANEL ID: TLM2012CCU LOAD CENTER, WIRE RATING: 6 2/0 SINGLE-PHASE, THREE-WIRE, 120 VAC, MAIN BREAKER: THQL2125GF									
WIRE: #3/0 90°C THHN VOLT: 120/240									
AMP: 125A 1Ø3 WIRE LOCATION: MULTI-USE HALL, FRONT SIDEWALL									
ITEM	WIRE	AMP	VOLT	CIR	CIR	VOLT	AMP	WIRE	ITEM
RECEPTACLES: MULTI-USE SPACE	12	20	120	01	02	120	20	12	RECEPTACLES: FLOOR - MULTI USE SPACE
RECEPTACLES: SERVER ROOM	12	20	120	03	04	220	20	12	RECEPTACLES: MULTI-USE SPACE
RECEPTACLES: KITCHEN APPLIANCE	12	20	120	05	06	220	20	12	//
RECEPTACLES: KITCHEN APPLIANCE	12	20	120	07	08	120	20	6	RECEPTACLES: KITCHEN APPLIANCE
RECEPTACLES: VERANDA (GFCI)	12	20	120	09	10	120	15	6	LIGHTS: MULTI-USE SPACE
LIGHTS: MULTI-USE SPACE	12	15	120	11	12	120	15	12	LIGHTS: MULTI-USE SPACE
LIGHTS: MULTI-USE SPACE & RESTROOMS	12	15	120	13	14	120	15	12	LIGHTS: KITCHEN
LIGHTS: VERANDA	12	15	120	15	16	120	20	12	CEILING FAN: MULTI-USE
CEILING FAN: MULTI-USE	12	20	120	17	18	120	20	12	CEILING FAN: MULTI-USE
SMOKE DETECTOR	12	15	120	19	20	120	20	12	

SCHEDULE - PANEL 2

PANEL ID: TLM10630CCU LOAD CENTER, WIRE RATING: 6 2/0 SINGLE-PHASE, THREE-WIRE, 120 VAC, MAIN BREAKER: THQL21125GF - GFCI BREAKER INSTALLED									
WIRE: #3 90°C THHN VOLT: 120/240									
AMP: 85A 1Ø3 WIRE LOCATION: OFFICE									
ITEM	WIRE	AMP	VOLT	CIR	CIR	VOLT	AMP	WIRE	ITEM
RECEPTACLES: OFFICE & VERANDA	12	20	120	01	02	220	20	12	RECEPTACLES: OFFICE A/C
RECEPTACLES: OFFICE & HALL	12	20	220	03	//	220	20	12	//
//	12	20	220	05	06	120	20	12	RECEPTACLES: STOREROOM
LIGHTS: OFFICE & STOREROOM	12	15	120	07	08	120	15	12	LIGHTS: SECURITY & VERANDA
GENERATOR: AUTOMATIC TRANSFER SWITCH	10	30	220	09	10	120	20	12	
//	12	30	220	11	12	120	20	12	

ELECTRICAL SCHEDULE					
SYMBOL	DESCRIPTION	AMP	WIRE	QTY	LOC
	VANITY LAMP LAMP @ 6.5' AFF.	15	12G	02	RESTROOM
	WALL MOUNTED EXTERIOR LANTERN @ 7'AFF. CF20/CW	15	12G	12	VERANDA
	MOTION SENSOR LAMP	15	12G	06	EXTERIOR
	SMOKE DETECTOR	15	12G	9	INTERIOR SPACES
	FT8/40/DL/24 @ 7'AFF.	15	12G	01	KITCHEN
	DOWN LIGHTS	15	12G	14	MULTI-USE SPACE
	FT8/40/CW/40 PENDANT LAMP w/ CHAIN @ 7'AFF.	15	12G	15	MULTIUSE SPACE, KITCHEN
	FT8/40/CW/40 FLUSH CEILING LAMP @ 7'AFF.	15	12G	03	STOREROOM
	WALL MOUNT LAMP @ 6'AFF.	15	12G	02	OFFICE
	42IN CEILING FAN @ 6'AFF.	15	12G	10	MULTI-USE SPACE
	10'X10' CEILING MOUNT LAMP, FLUSH - DAMP	15	12G	01	VERANDA
	SINGLE POLE SWITCH @ 48" AFF	15	12G	16	REFER TO EI
	THREE-WAY SWITCH @ 48" AFF	15	12G	04	REFER TO EI
	2-GANG SWITCH @ 48" AFF	15	12G	02	REFER TO EI
	AUTOMATIC TRANSFER SWITCH TO GENERATOR	30	10G	01	GENERATOR PAD
	LAMPS WITH MOTION SENSOR	15	12G	06	REFER TO EI
	ACCESS PANEL TO CEILING - 24" X 48"	N/A	N/A	02	MULTI-USE SPACE





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AND BARBUDA

CLIENT:

O ECS COMMISSION
MORNE FORTUNE,
CASTRIES ST. LUCIA

PROJECT:

DEPT OF FORESTRY
NURSERY - VISITORS
CENTER

LOCATION:

BENDALS, ANTIGUA

SHEET:

E02 - POWER PLAN &
SCHEDULE

NOTES

ALL ELECTRICAL INSTALLATION SHALL
CONFORM TO THE STANDARDS SET BY THE
ANTIGUA POWER COMPANY. DRAWINGS
PRESENTED ARE IN ACCORDANT WITH THE
NEC 2017

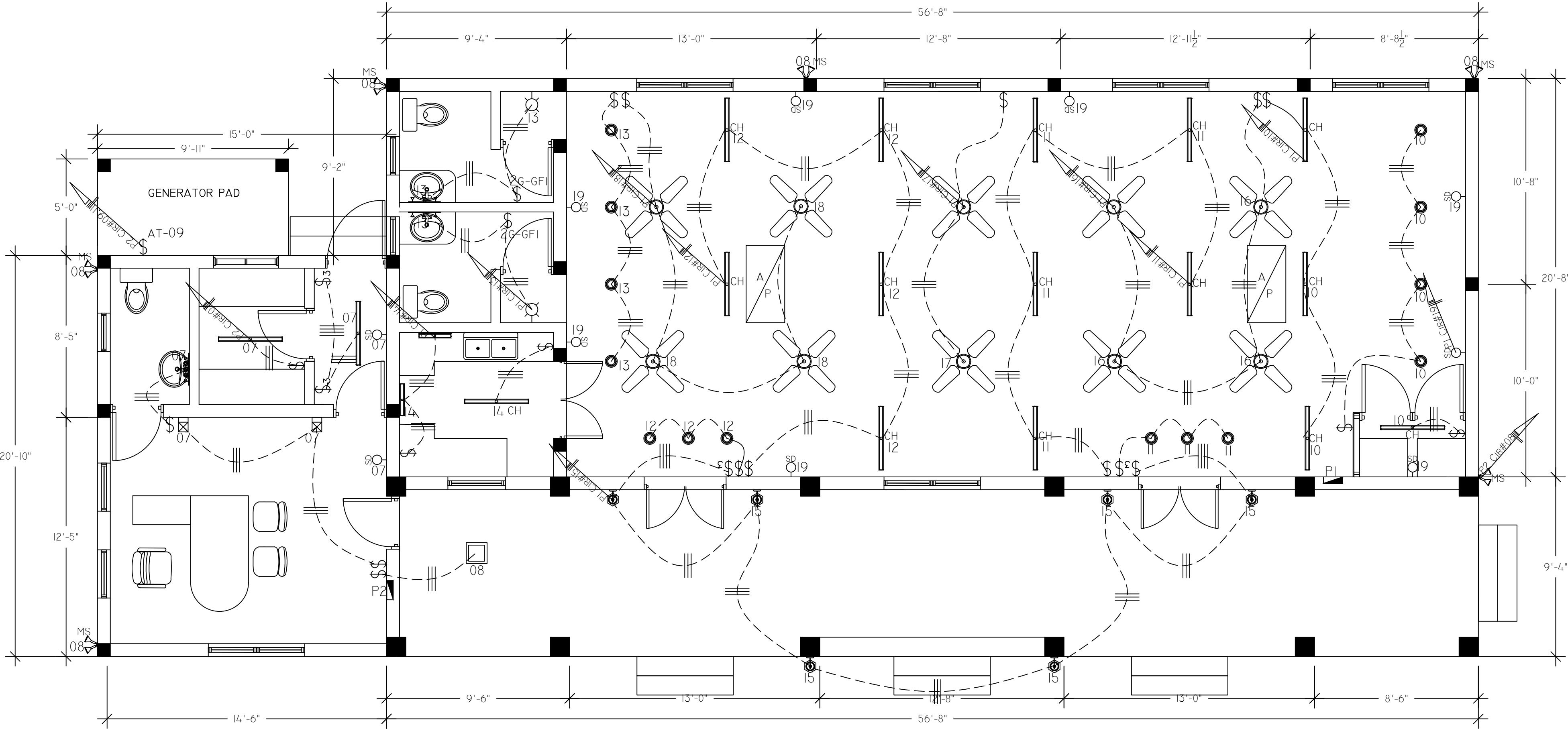
Scale:

1/4" = 1'-0"

Date:

11th May/2023

The Consortium of Caribbean Architects and Planners
Ltd, CS Consulting Engineers Ltd,
Kelvin Swanston's Company.



LIGHTING PLAN

SCALE: $\frac{1}{4}$ "=1'-0"

SCHEDULE - PANEL 1

PANEL ID: TLM3012CCU LOAD CENTER, WIRE RATING: 6 2/0 SINGLE-PHASE, THREE-WIRE, 120 VAC, MAIN BREAKER: THQL21125GF				WIRE: #3/0 90°C THHN VOLT: 120/240				AMP: 125A 1Ø3 WIRE LOCATION: MULTI-USE HALL, FRONT SIDEWALL			
ITEM	WIRE	AMP	VOLT	CIR	CIR	VOLT	AMP	WIRE	ITEM		
RECEPTACLES: MULTI-USE SPACE	12	20	120	01	02	120	20	12	RECEPTACLES: FLOOR - MULTI USE SPACE		
RECEPTACLES: SERVER ROOM	12	20	120	03	04	220	20	12	RECEPTACLES: MULTI-USE SPACE		
RECEPTACLES: KITCHEN APPLIANCE	12	20	120	05	06	220	20	12	//		
RECEPTACLES: KITCHEN APPLIANCE	12	20	120	07	08	120	20	6	RECEPTACLES: KITCHEN APPLIANCE		
RECEPTACLES: VERANDA (GFCI)	12	20	120	09	10	120	15	6	LIGHTS: MULTI-USE SPACE		
LIGHTS: MULTI-USE SPACE	12	15	120	11	12	120	15	12	LIGHTS: MULTI-USE SPACE		
LIGHTS: MULTI-USE SPACE & RESTROOMS	12	15	120	13	14	120	15	12	LIGHTS: KITCHEN		
LIGHTS: VERANDA	12	15	120	15	16	120	20	12	CEILING FAN: MULTI-USE		
CEILING FAN: MULTI-USE	12	20	120	17	18	120	20	12	CEILING FAN: MULTI-USE		
SMOKE DETECTOR	12	15	120	19	20	120	20	12			

SCHEDULE - PANEL 2

PANEL ID: TLM10630CCU LOAD CENTER, WIRE RATING: 6 2/0 SINGLE-PHASE, THREE-WIRE, 120 VAC, MAIN BREAKER: THQL21125GF - GFCI BREAKER INSTALLED				WIRE: #3 90°C THHN VOLT: 120/240				AMP: 70A 1Ø3 WIRE LOCATION: OFFICE			
ITEM	WIRE	AMP	VOLT	CIR	CIR	VOLT	AMP	WIRE	ITEM		
RECEPTACLES: OFFICE & VERANDA	12	20	120	01	02	220	20	12	RECEPTACLES: OFFICE A/C		
RECEPTACLES: OFFICE & HALL	12	20	220	03	//	220	20	12	//		
//	12	20	220	05	06	120	20	12	RECEPTACLES: STOREROOM		
LIGHTS: OFFICE & STOREROOM	12	15	120	07	08	120	15	12	LIGHTS: SECURITY & VERANDA		
GENERATOR: AUTOMATIC TRANSFER SWITCH	10	20	220	09	10	120	20	12			
//	12	20	220	11	12	120	20	12			