

PROPOSED BUILDING BETTER IN BELIZE, ECO- COMMUNITY

10.5 MLS MOLLEJON ROAD,
BENQUE VIEJO DEL CARMEN TOWN,
CAYO DISTRICT,
BELIZE C.A.

A00 COVER

ARCHITECTURAL DRAWINGS

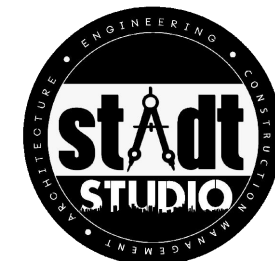
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Rev	Description	By	Date

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BETTER IN BELIZE
 10.5 mls. Mollejon Road,
 Better in Belize, Cayo District,
 Belize, C.A.

Job Title
Proposed Residence
 10.5 mls. Mollejon Road,
 Better in Belize, Cayo District,
 Belize, C.A.

Drawing Name
**ARCHITECTURAL
 & DIMENSIONED
 FLOOR PLAN**

Drawn by
 E. Canto Tech.
 Checked by
 Date
 Nov., 2018
 Date

Project Number
 051_18
 Drawing Scale
 As Shown
 Sheet No.
A02

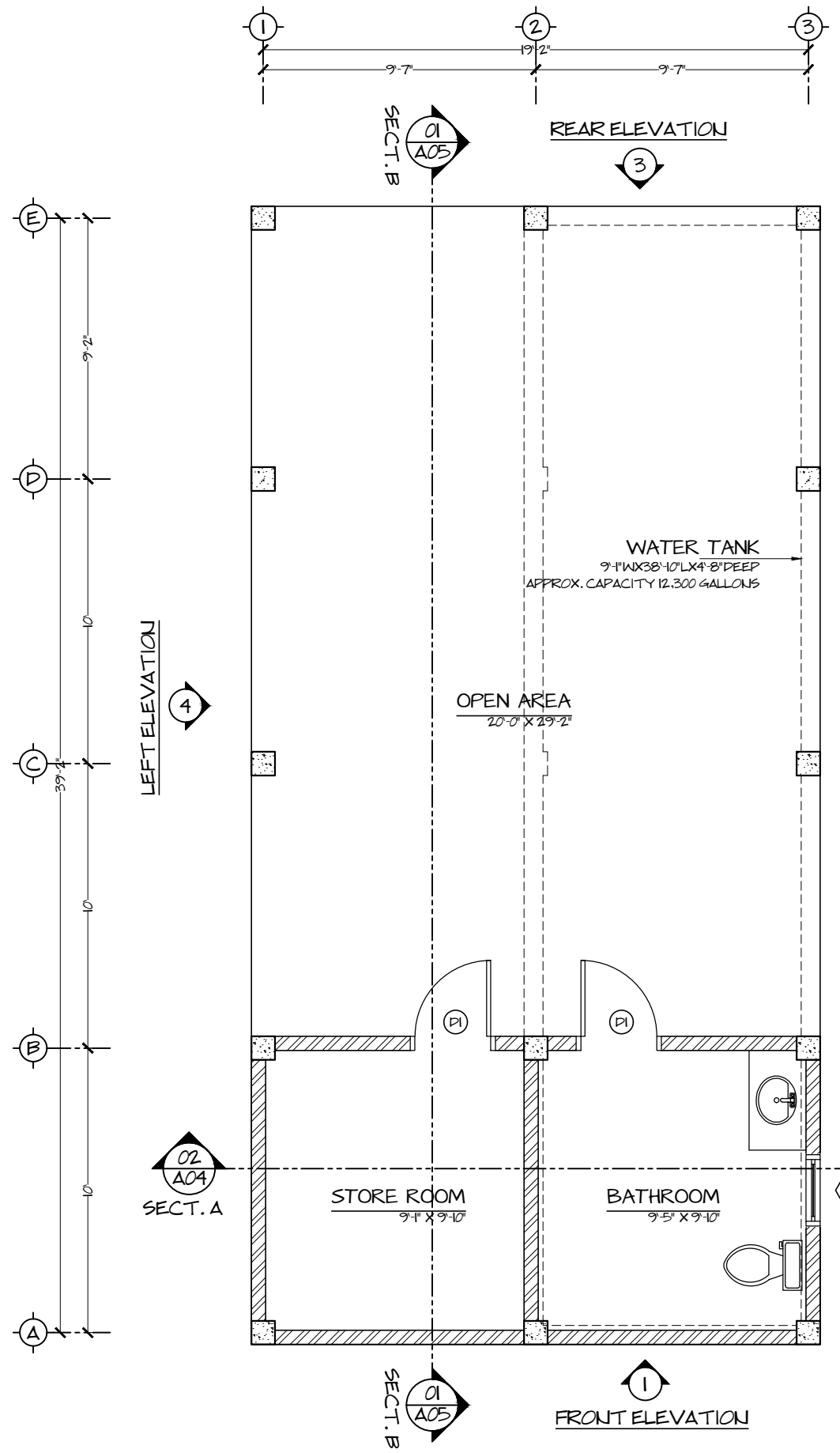
Stamps & Seals

LEGEND

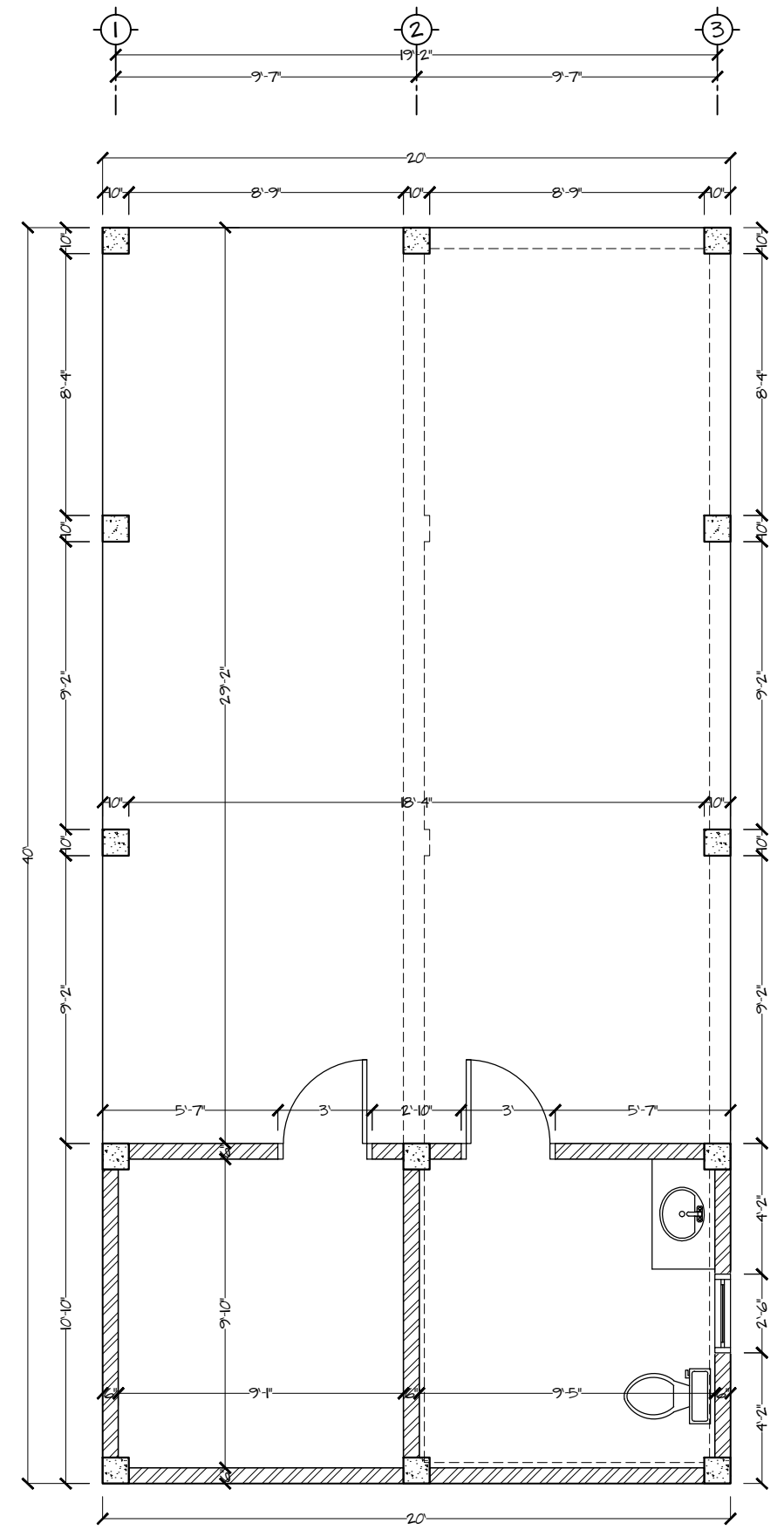
- 6" THK. BLOCK WALLS
- 10"X10" R.C. COLUMN

TOTAL FLOOR AREAS

BUILDING AREAS	= 800 SQ. FT.
WATER CISTERN	= 416 SQ. FT.
TOTAL FLOOR AREAS	= 1216 SQ. FT.



**01
A02**



**02
A02**



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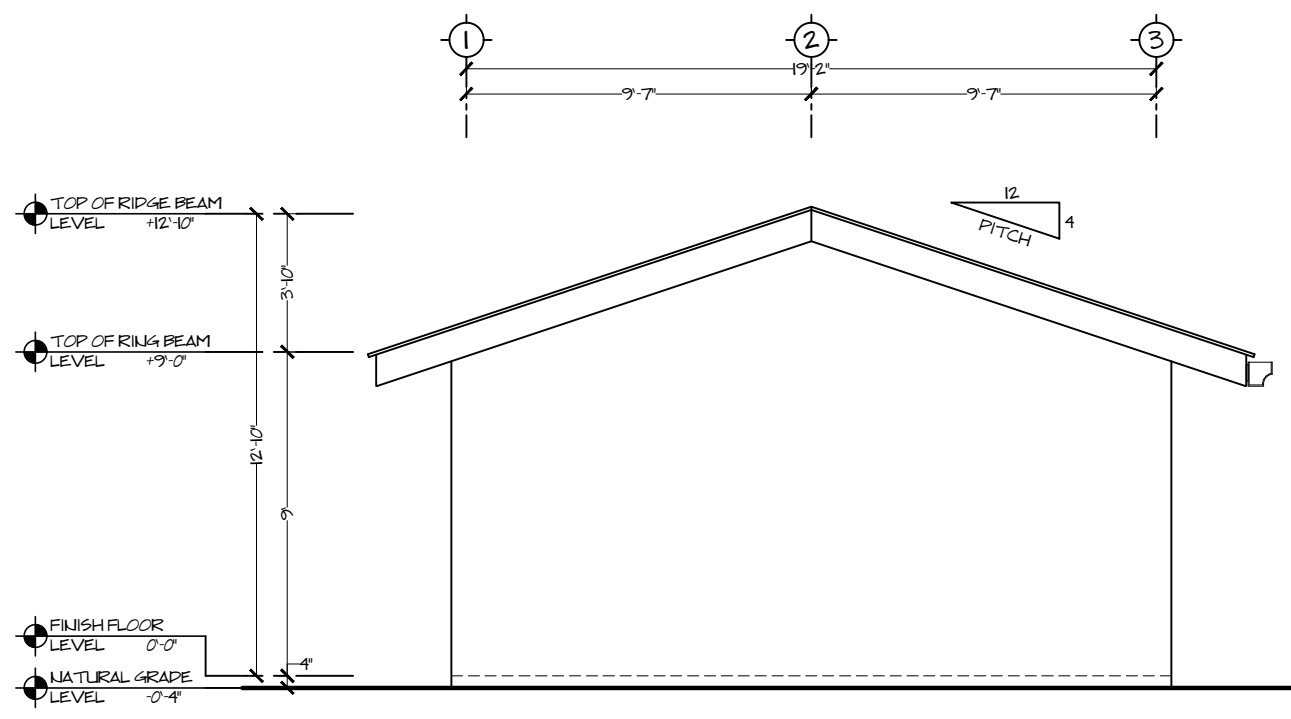
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Drawing Name
BUILDING ELEVATIONS

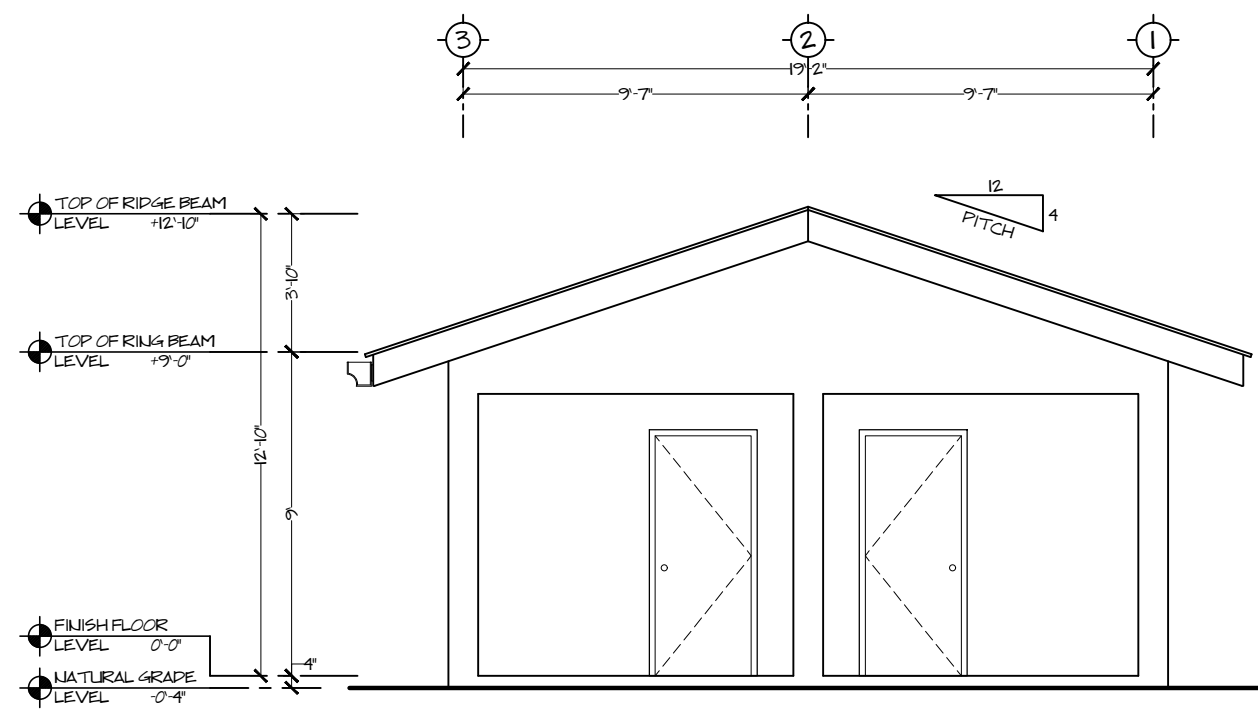
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A03

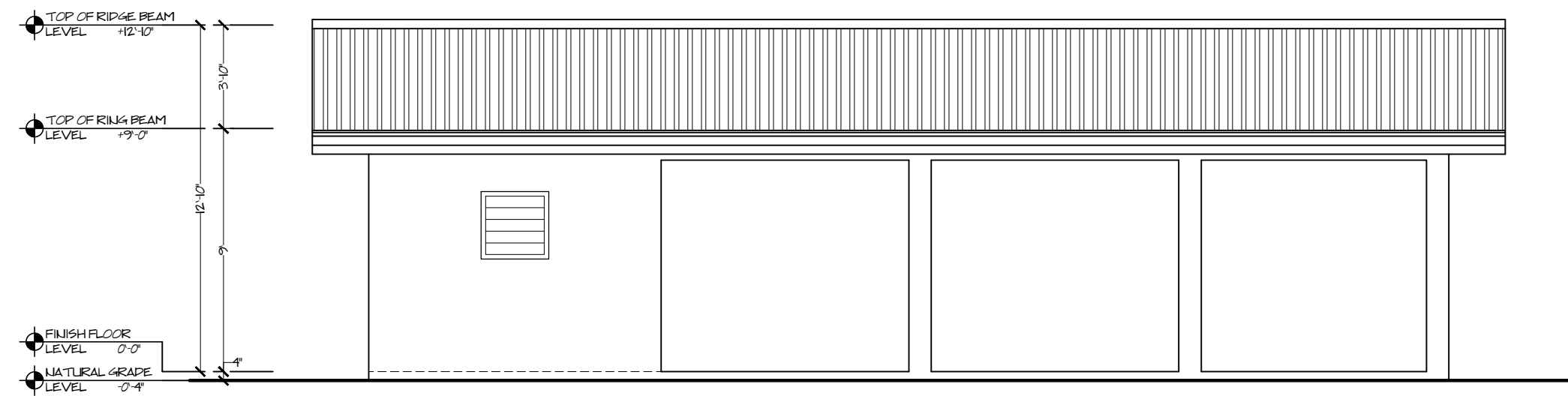
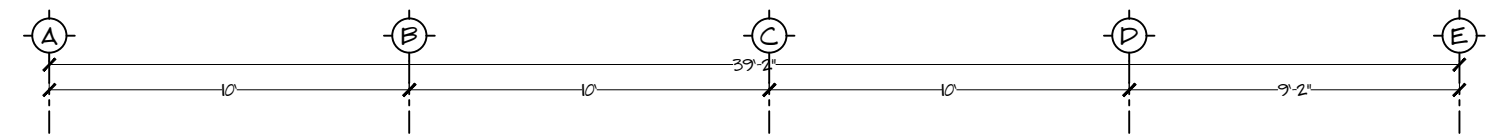
Stamps & Seals




FRONT BUILDING ELEVATION -1
 SCALE: 3/16" = 1'-0"



REAR BUILDING ELEVATION -3
 SCALE: 3/16" = 1'-0"



RIGHT BUILDING ELEVATION -2
 SCALE: 3/16" = 1'-0"

01
 A03

02
 A03

03
 A03



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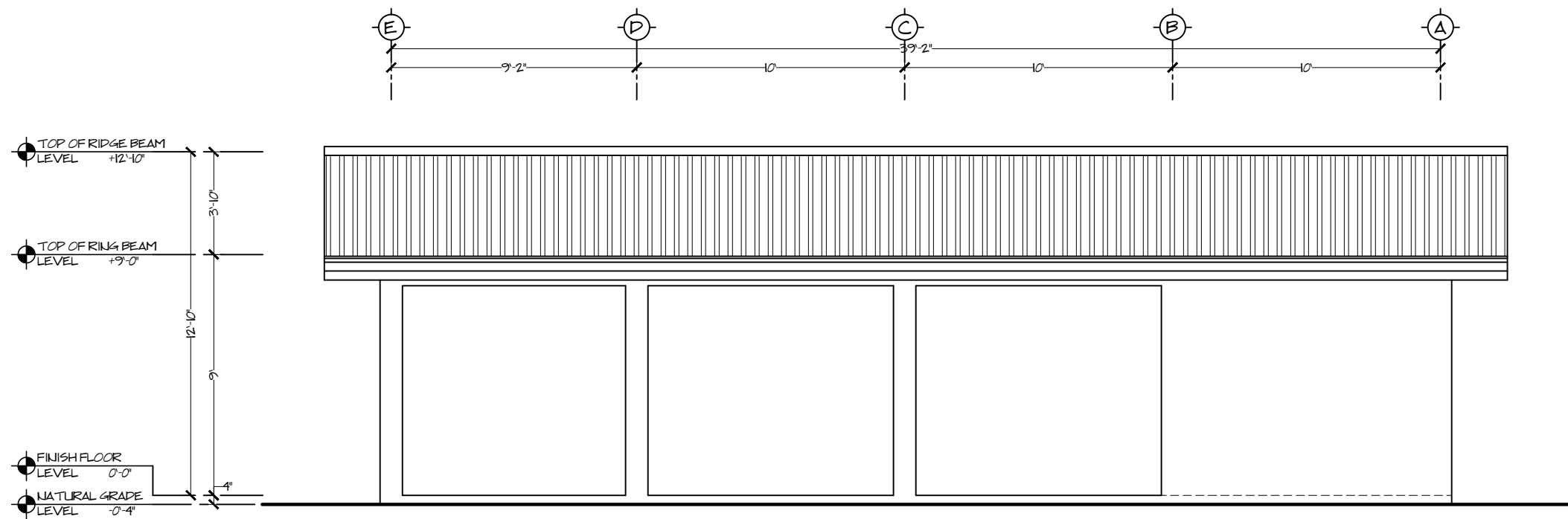
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Drawing Name
BUILDING ELEVATION & SECTION 'A-A'

Drawn by
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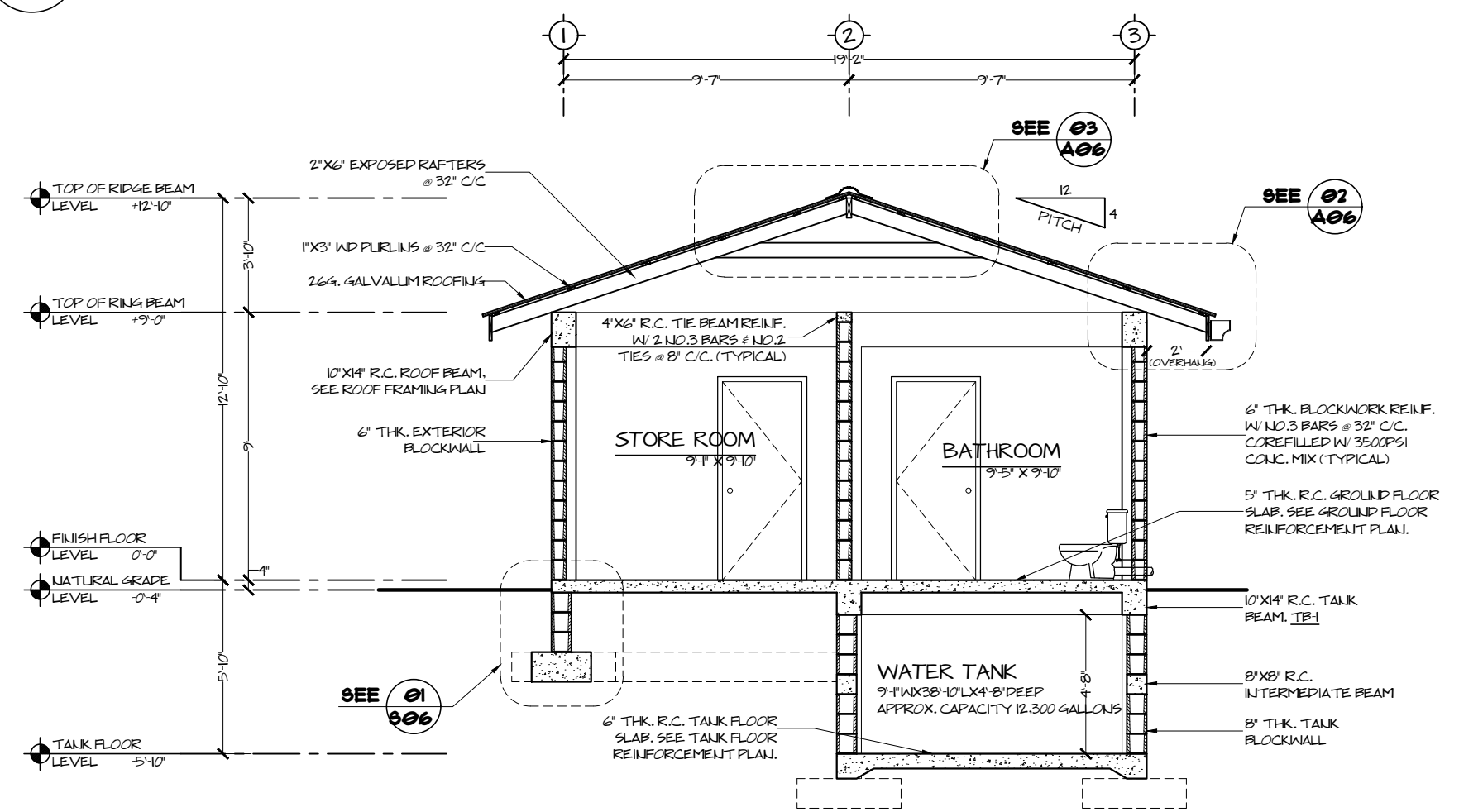
Project Number
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 Drawing Scale
 As Shown
 Sheet No.
A04

Stamps & Seals



01
A04

LEFT BUILDING ELEVATION -4
 SCALE: 3/16" = 1'-0"



02
A04

BUILDING SECTION - 'A-A'
 SCALE: 3/16" = 1'-0"



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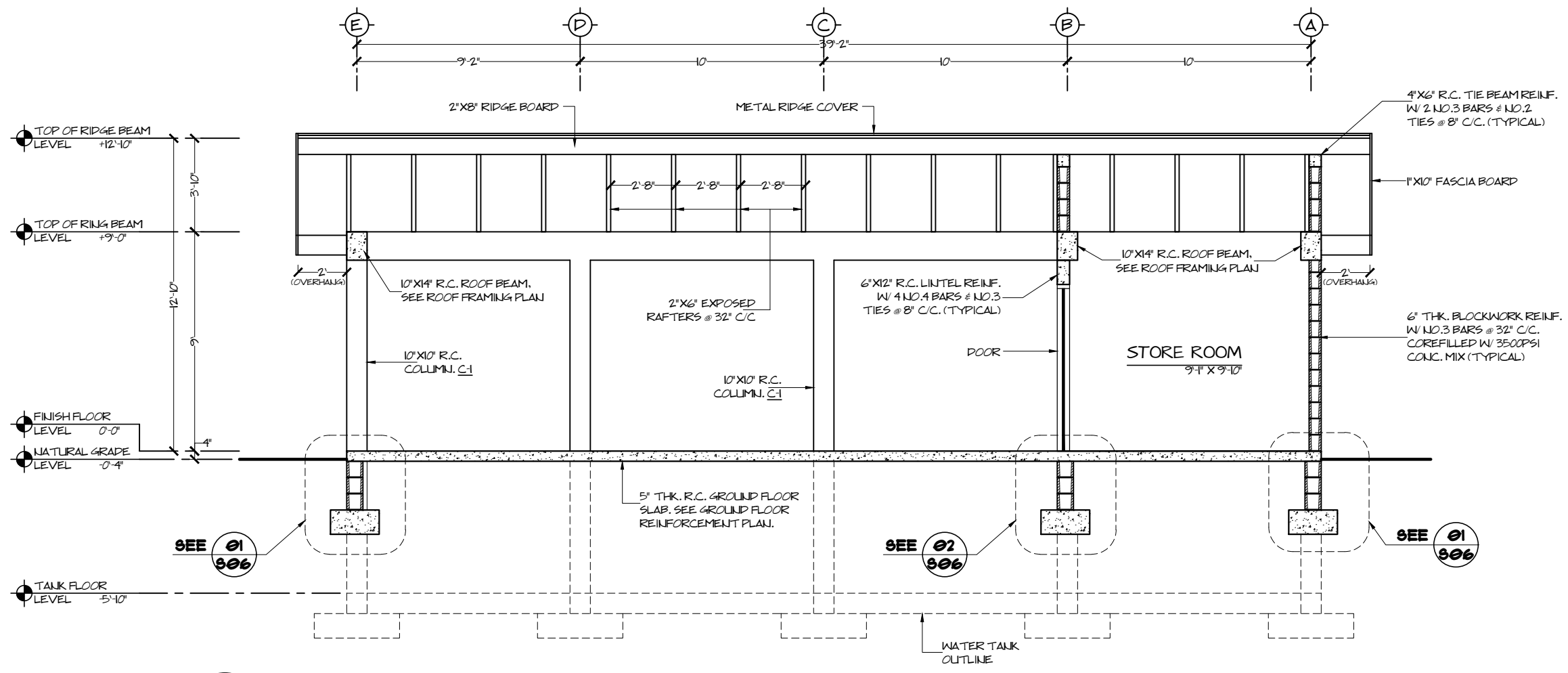
Job Title
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Drawing Name
BUILDING SECTION 'B-B', DOOR & WINDOW SCHEDULE

Drawn by
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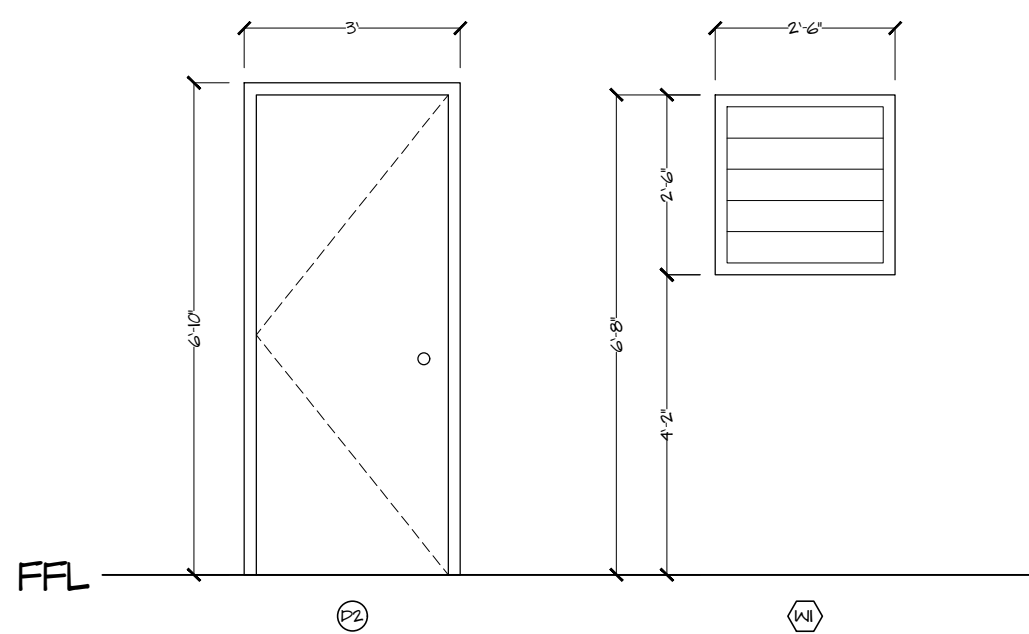
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 As Shown
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A05

Stamps & Seals



01
A05

BUILDING SECTION - 'B-B'
 SCALE: 3/16" = 1'-0"



DOOR SCHEDULE				
DOOR CODE	DOOR SIZE		QTY	SPECIFICATIONS
	W	H		
(D1)	3'-0"	6'-10"	2	EXTERIOR SINGLE SWING, SINGLE LEAF WOOD DOOR. HARDWARE: 1 1/2 PAIRS BUTT HINGES, STORE ROOM LOCKSET (ALL STAINLESS STEEL).

WINDOW SCHEDULE				
WIND. CODE	WIND. SIZE		QTY	SPECIFICATIONS
	W	H		
(W1)	2'-6"	2'-6"	1	ALUMINUM LOUVERED WINDOWS, WHITE ALUMINUM FRAME, MECHANICALLY OPERATED.

GENERAL DOOR & WINDOW NOTES:
 CONTRACTOR SHALL VERIFY ALL DOOR/WINDOW OPENINGS PRIOR TO PURCHASE/MANUFACTURE DOORS/WINDOWS.
 ALL DOOR SIZES SPECIFIED INCLUDES DOOR PANEL WITH FRAME.
 DOOR PANELS: UNLESS OTHERWISE STATED, ALL WOODEN DOORS SHALL BE DARK HARDWOOD, SAND, SEALED AND VARNISHED.
 DOOR FRAMES: UNLESS OTHERWISE STATED, ALL DOOR FRAMES SHALL BE 1 3/4" X WALL THICKNESS DRESSED HARDWOOD FINISHED TO MATCH DOOR PANELS AND SECURE TO WALL WITH 1/2" DIA. STAINLESS STEEL ANCHOR BOLTS W/ WASHERS (3 EACH ON VERTICAL FRAMES & 2 ON HORIZONTAL FRAME).

02
A05

DOOR & WINDOW SCHEDULE
 SCALE: 3/8" = 1'-0"



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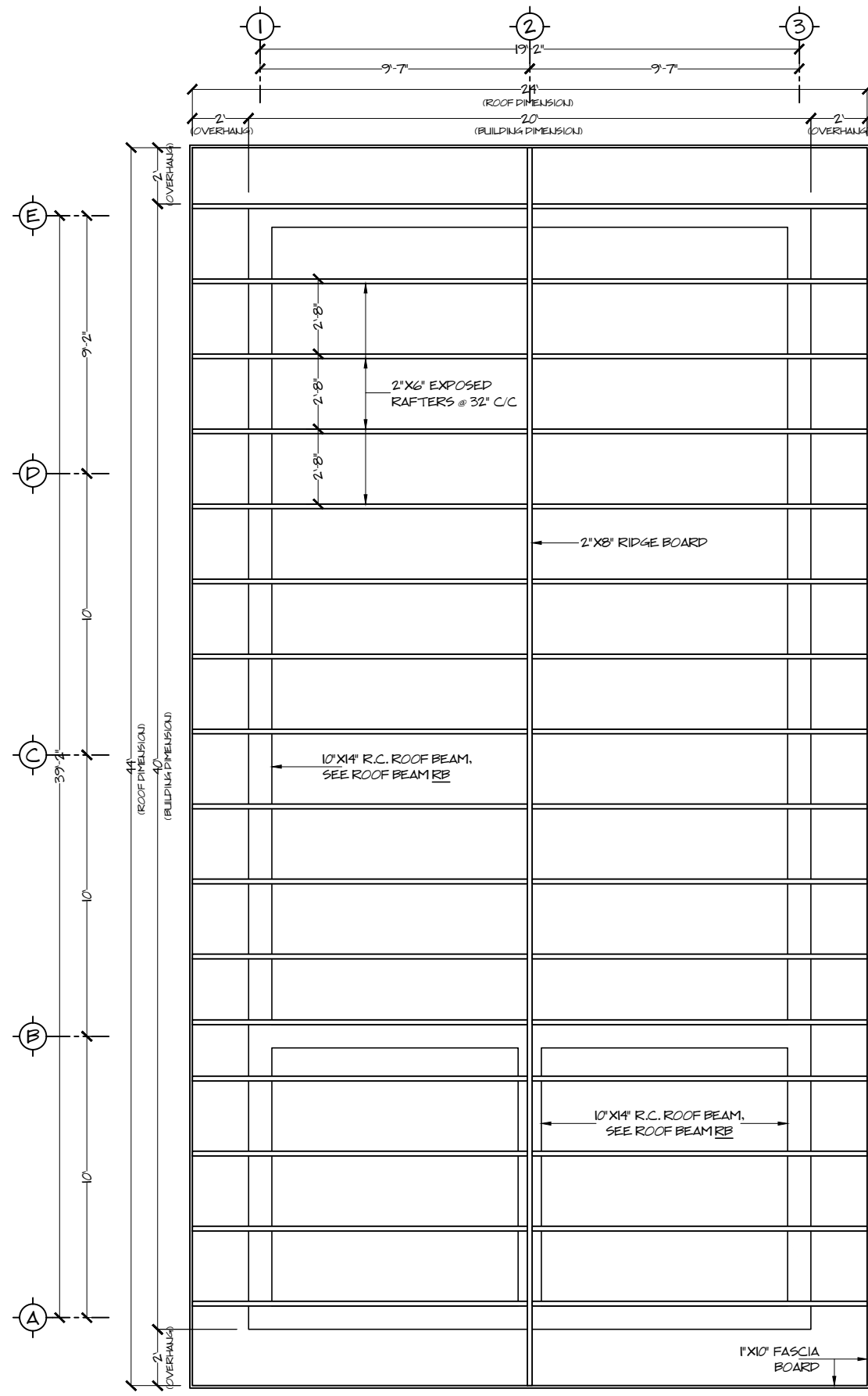
Job Title
Proposed Residence
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Drawing Name
ROOF PLAN & ROOF DETAILS

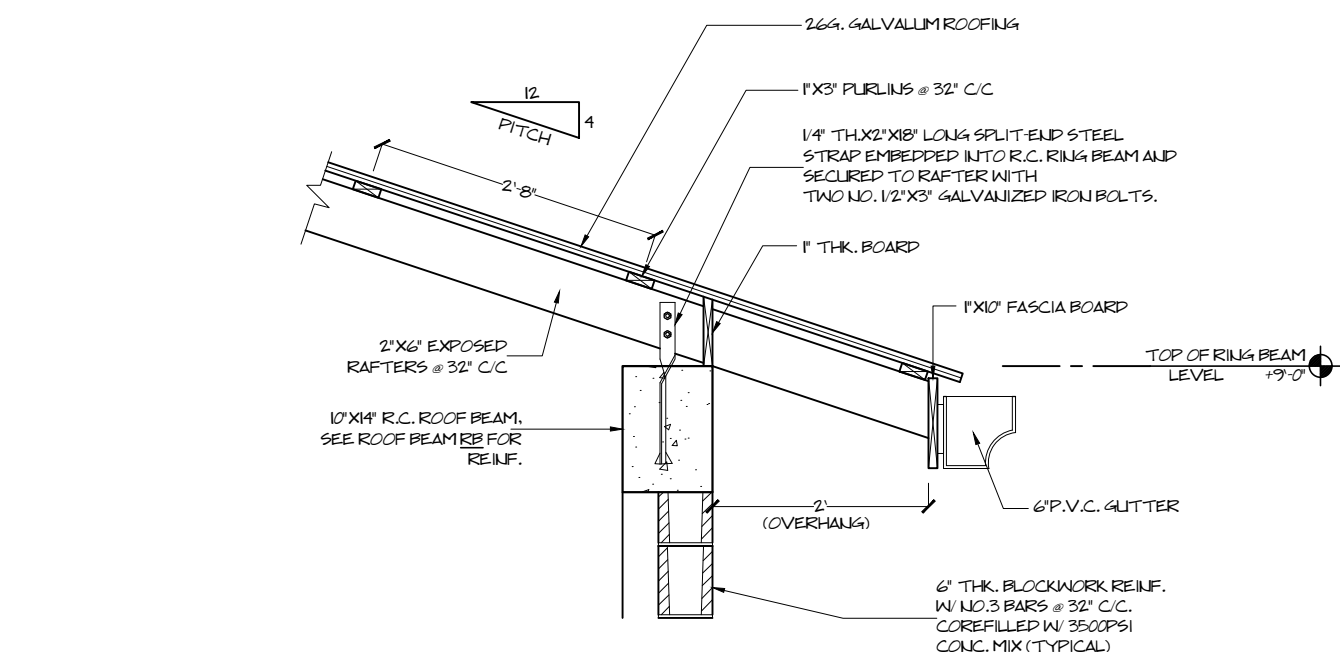
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Project Number
 051_18
 Drawing Scale
 As Shown
 Sheet No.
A06

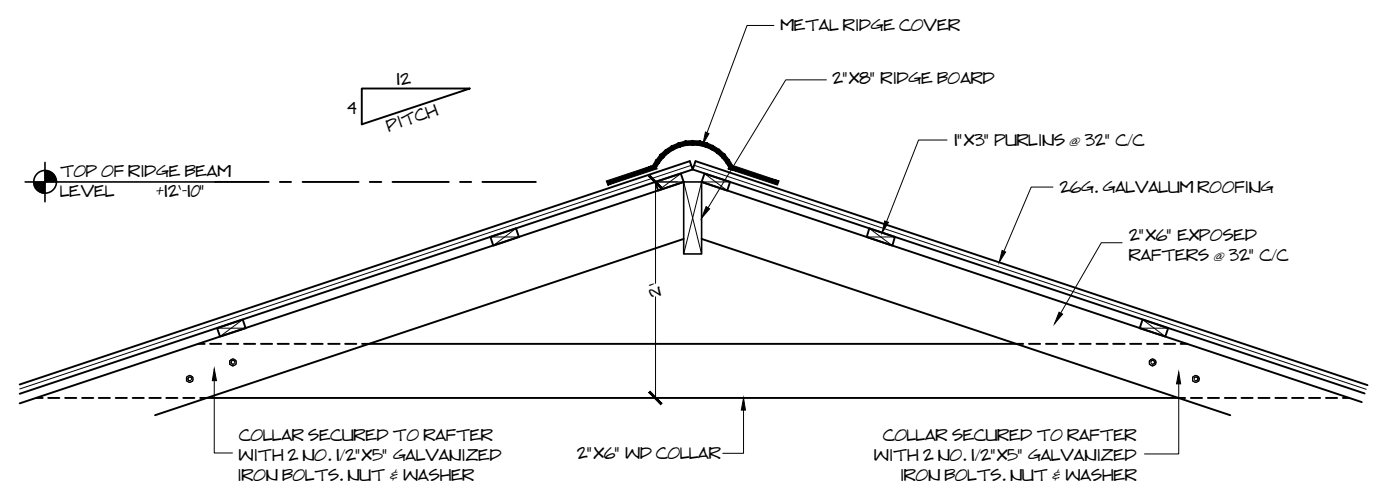
Stamps & Seals




01 A06
ROOF PLAN
 SCALE: 3/16" = 1'-0"



02 A06
TYPICAL EAVE DETAIL
 SCALE: 1/2" = 1'-0"



03 A06
TYPICAL RIDGE DETAIL
 SCALE: 1/2" = 1'-0"



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Proposed Residence
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Drawing Name
STRUCTURAL GENERAL NOTES & DETAILS

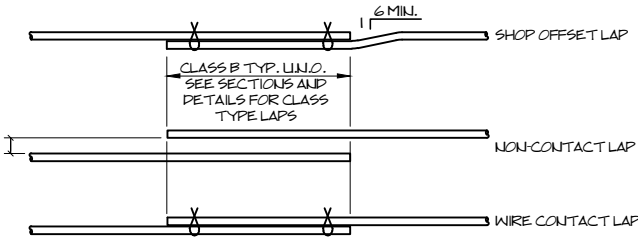
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Project Number 051_18 Sheet No. **S01**
 Drawing Scale As Shown

Stamps & Seals


TYPICAL SPLICE SCHEDULE

TENSION SPLICES	REINFORCING BAR SPLICE LENGTH						
	BAR SIZE GRADE 60	#8	#7	#6	#5	#4	
CLASS A	3000	TOP 1	3'-9"	3'-2"	2'-9"	2'-4"	1'-0"
		BOTTOM 2	2'-11"	2'-5"	2'-4"	1'-9"	1'-5"
	4000	TOP 1	3'-3"	2'-9"	2'-4"	2'-3"	1'-7"
		BOTTOM 2	2'-6"	2'-3"	1'-0"	1'-9"	1'-3"
	5000	TOP 1	2'-11"	2'-5"	2'-3"	2'-0"	1'-5"
		BOTTOM 2	2'-3"	1'-11"	1'-8"	1'-6"	1'-1"
CLASS B	3000	TOP 1	4'-1"	4'-1"	3'-6"	2'-11"	2'-4"
		BOTTOM 2	3'-9"	3'-2"	2'-9"	2'-4"	1'-0"
	4000	TOP 1	4'-3"	3'-7"	3'-4"	2'-6"	2'-4"
		BOTTOM 2	3'-3"	2'-9"	2'-4"	2'-0"	1'-7"
	5000	TOP 1	3'-10"	2'-4"	2'-9"	2'-3"	1'-0"
		BOTTOM 2	2'-11"	2'-5"	2'-4"	1'-9"	1'-5"



CLASS A MAY BE USED WHERE LAPS ARE WELL STAGGERED & NO MORE THAN 50% OF THE BARS ARE SPLICED AT ONE LOCATION.

FOOTNOTES:
 1. TOP BAR: HORIZONTAL REINFORCING WITH MORE THAN 1/2' OF CONCRETE BELOW BAR.
 2. BOTTOM BAR: ALL VERTICAL, ALL HORIZONTAL WALL REINFORCING, AND HORIZONTAL REINFORCING WITH LESS THAN 1/2' OF CONCRETE BELOW BAR.
 3. ALL LAP SPLICES SHALL BE CLASS "B" SPLICE EXCEPT THAT CLASS "A" SPLICES MAY BE USED WHEN ONE HALF OR LESS OF THE TOTAL REINFORCEMENT IS SPLICED WITHIN THE REQUIRED LAP LENGTH.
 4. MINIMUM CLEAR SPACES OF BARS SHALL BE NOT LESS THAN 3 BAR DIAMETER.

REINFORCING SCHEDULE

THK.	SPAN	S	REINFORCEMENT		
			T	B	B
6" & 8"	4'0"	6" & 8"	2-1/2"	3-8"	8' /
6" & 8"	4-0' 8' 0"	6" & 8"	2-3/8"	2-3/8"	3-8" 8' /

MINIMUM CVR.

DESIGN LOADS

1. FLOOR LIVE LOAD _____ 50 PSF (UNFACTORED)
 ROOF LIVE LOAD _____ 20 PSF (UNFACTORED)
 WIND LOADS _____ 150 (ASCE-02)

BUILDING CODES:
 INTERNATIONAL BUILDING CODE 2003 (IBC-2003)
 ASCE-2002

REINFORCEMENT

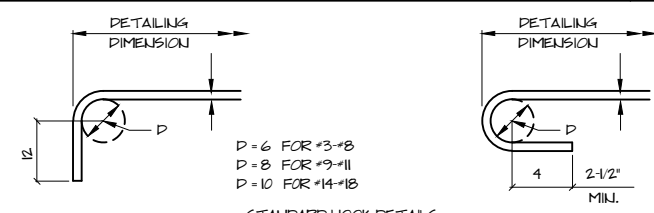
1. ALL 3/8" DIAMETER REINFORCEMENT STEEL SHALL CONFORM TO A.S.T.M. A-615, GRADE 60. ALL LARGER DIAMETER REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO A.S.T.M. A-615, GRADE 60.
 2. ALL REINFORCING STEEL SHALL BE TIED AND SUPPORTED IN SUCH A MANNER AS TO ENSURE THAT THEY MAINTAIN THEIR PROPER COVERAGE DURING THE PLACING OF CONCRETE.
 3. MINIMUM COMPRESSION LAP SPLICES SHALL BE 30X BAR DIAMETER, UNLESS NOTED OTHERWISE ON DRAWINGS. MINIMUM DOWEL EMBEDMENT SHALL BE 22X BAR DIAMETER, UNLESS NOTED OTHERWISE.
 4. ALL REINFORCEMENT, AT THE TIME OF PLACEMENT OF CONCRETE SHALL BE FREE OF MUD, OIL, OR OTHER MATERIALS WHICH MAY AFFECT OR REDUCE BONDING OF CONCRETE.
 5. MINIMUM COVERAGE OF CONCRETE SHALL BE AS FOLLOWS:
 CONCRETE DEPOSITED AGAINST THE GROUND _____ 3"
 CONCRETE COLUMNS _____ 2"
 CONCRETE BEAMS _____ 1.5"
 UNLESS NOTED OTHERWISE ON DRAWINGS.

CONCRETE

1. ALL CEMENT SHALL CONFIRM TO A.S.T.M. C-150, TYPE IP, UNLESS NOTED OTHERWISE.
 2. WATER USED IN MIXING CONCRETE SHALL BE CLEAN, POTABLE AND FREE FROM INJURIOUS AMOUNT OF OILS, ACIDS, ALKALIS, SALTS, ORGANIC MATERIAL AND OTHER SUBSTANCES DELETERIOUS TO CONCRETE OR REINFORCEMENT.

REINFORCING SCHEDULE

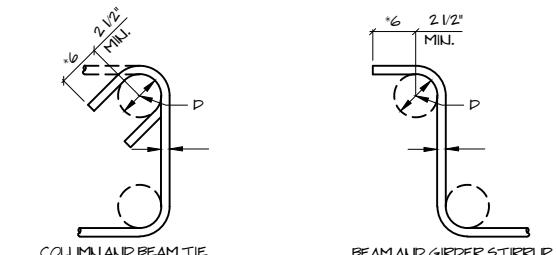
2



STANDARD HOOK DETAILS

TIES AND STIRRUPS ONLY
 #3: D = 1-1/2"
 #4: D = 2"
 #5: D = 2-1/2"
 #6: D = 4-1/2"

TIE NOTES
 1. PROVIDE 10 EXTENSIONS IN LIEU OF 6 AT ALL FRAME COLUMNS AND GIRDERS.



TYPICAL TIES & STIRRUPS DETAIL

4

3. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL MEET THE REQUIREMENTS FOR A.S.T.M. C-39 UNLESS OTHERWISE SPECIFIED. THE NOMINAL SIZE OF AGGREGATES USED SHALL NOT EXCEED 1/5 OF THE NARROWEST DIMENSION BETWEEN SIDES OF FORMS, 1/3 THE DEPTH OF SLABS OR 3/4 THE MINIMUM CLEAR SPACING BETWEEN INDIVIDUAL REINFORCING BARS WITHIN MEMBERS.
 4. THE SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE, 'f', SHALL BE AS FOLLOWS:

CONCRETE SLAB	3500 PSI
BEAMS & GIRDERS	3500 PSI
COLUMNS	3500 PSI
FOUNDATION	3000 PSI

'f' - SPECIFIED 28 DAYS COMPRESSIVE STRENGTH OF CONCRETE, PSI.

5. ALL CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE 318-02

CURING OF CONCRETE

1. BEGINNING IMMEDIATELY AFTER PLACEMENT, CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES, FOR A MINIMUM OF 7 DAYS. THIS MAY BE ACHIEVED BY ANY OF THE FOLLOWING METHODS:
) BY CONTINUOUS SPRINKLING
) APPLICATION OF ABSORPTIVE MATS OF FABRIC KEPT CONTINUOUSLY WET.
) APPLICATION OF SAND KEPT CONTINUOUSLY WET.

MASONRY

1. FOUNDATION WALLS SHALL BE 8" THK. BLK. WITH VERTICAL REINFORCEMENT 3/8" DIA. BARS AT 32" O.C. GROUT SOLID ALL CELLS (SEE KEY NOTES).
 2. EXTERIOR WALLS SHALL BE 8" THK. BLK. WITH VERTICAL REINFORCEMENT 3/8" DIA. BARS AT 32" O.C AND 3/8" DIA HORIZONTAL BARS AT 48" O.C. GROUT CELLS (SEE KEY NOTES).
 3. INTERIOR MASONRY WALLS SHALL BE 4" OR 6" THK. BLK. AS SHOWN ON PLAN W/ 3/8" DIA. VERTL. REBARS AT 32" O.C AND 3/8" DIA HORIZONTAL BARS AT 48" O.C. GROUT CELLS (SEE KEY NOTES).
 4. SPECIFIED COMPRESSIVE STRENGTH OF MASONRY AT THE AGE OF 28 DAYS 'f' = 1500
 5. MANUFACTURER OF MASONRY UNITS SHALL SUBMIT TO THE ENGINEER A CERTIFICATE CERTIFYING THE COMPRESSIVE STRENGTH OF MASONRY BLOCKS
 6. A MINIMUM OF 1/2" DIA. REBAR SHALL BE PLACED AT OPENINGS IN WALL SEE TYPICAL DOOR & WINDOW OPENING DETAILS ON SHEET S-08.

EVALUATION OF CONCRETE

1. THE CONTRACTOR SHALL ALLOW IN HIS RATES FOR CURING AND TESTING OF CONCRETE SPECIMENS FOR THE FOLLOWING ITEMS:
 A. FOUNDATION
 B. CONCRETE SLAB
 C. CONCRETE COLUMNS
 D. CONCRETE BEAMS
 TEST RESULT SHALL BE FURNISHED TO THE STRUCTURAL ENGINEER FOR APPROVAL.

2. A MINIMUM OF FOUR SPECIMENS SHALL BE CURED AND TESTED BY AN INDEPENDENT MATERIAL TESTING LABORATORY.
 3. TWO SPECIMEN SHALL BE TESTED AT SEVEN DAYS, AND TWO AT 28 DAYS. MATERIAL TESTING LABORATORY.
 4. A STRENGTH TEST SHALL BE THE AVERAGE OF THE STRENGTHS OF TWO CYLINDERS MADE FROM THE SAME SAMPLE OF CONCRETE.
 5. THE REQUIRED AVERAGE STRENGTH SHALL EXCEED 'f' AS FOLLOWS:
 'f' = 3000 _____ 4000
 'f' = 3500 _____ 4500

SHOULD ANY INDIVIDUAL STRENGTH TEST RESULT FALLS BELOW THE SPECIFIED 'f' BY MORE THAN 500 PSI, WILL BE CAUSE FOR REJECTION OF CONCRETE AT THE CONTRACTORS EXPENSE.



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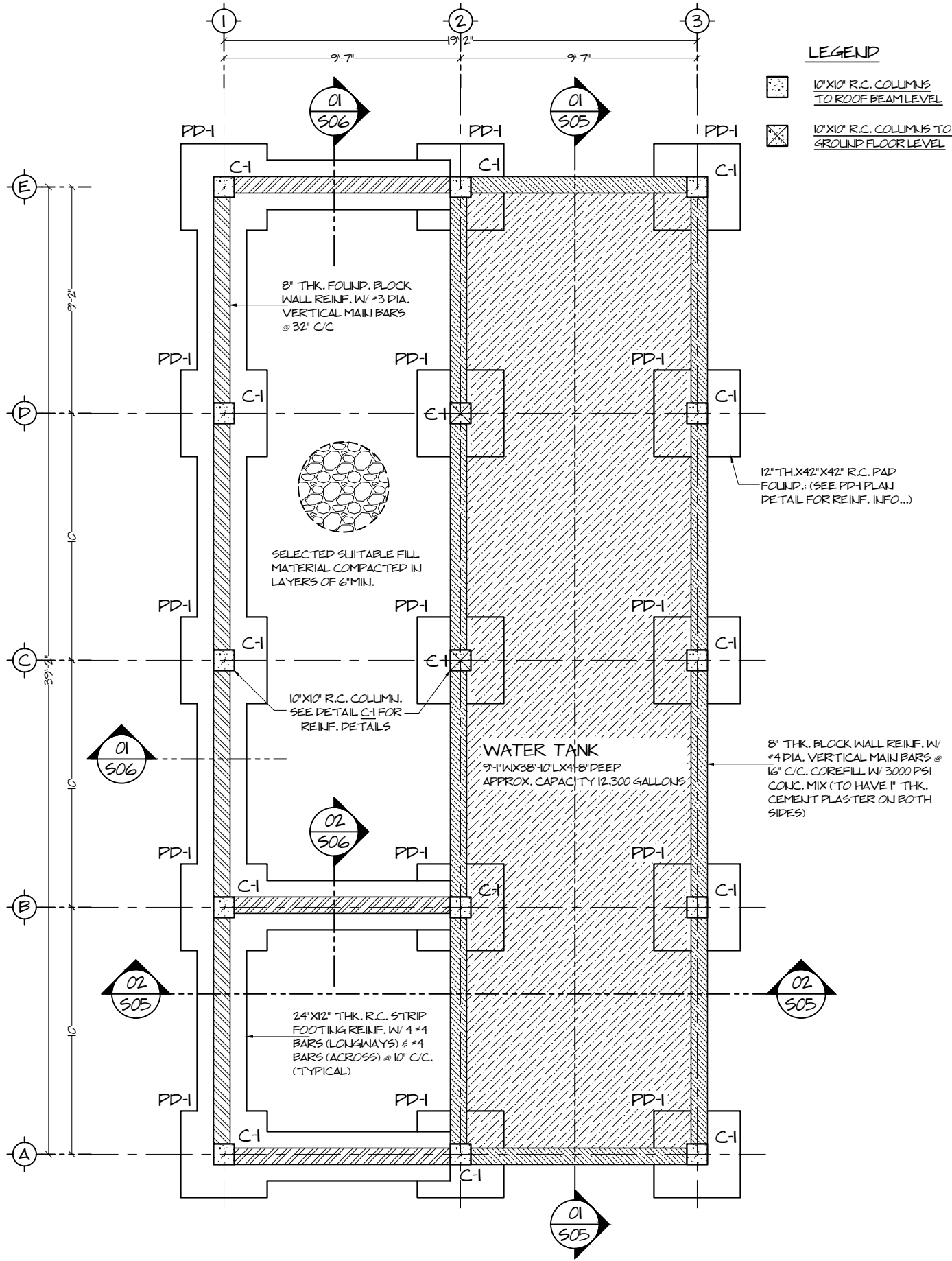
Job Title
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Drawing Name
FOUNDATION, WATER TANK COLUMN & FLOOR REINF. PLAN

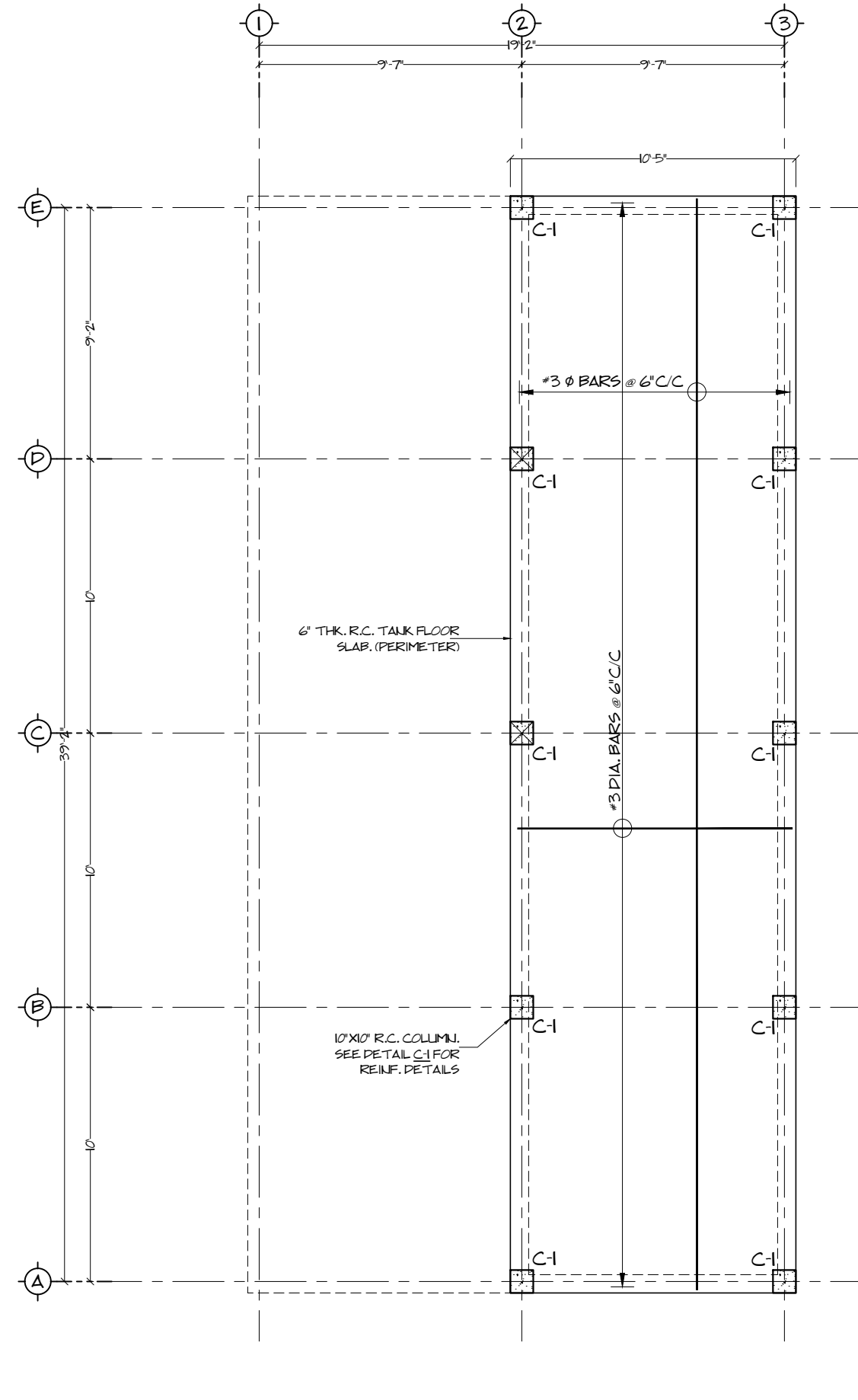
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 Drawing Scale
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 Sheet No.
S02

Stamps & Seals



01
FOUNDATION PLAN
 SCALE: 3/16" = 1'-0"



02
WATER TANK COLUMN & REINF. PLAN
 SCALE: 3/16" = 1'-0"

01
S02

02
S02



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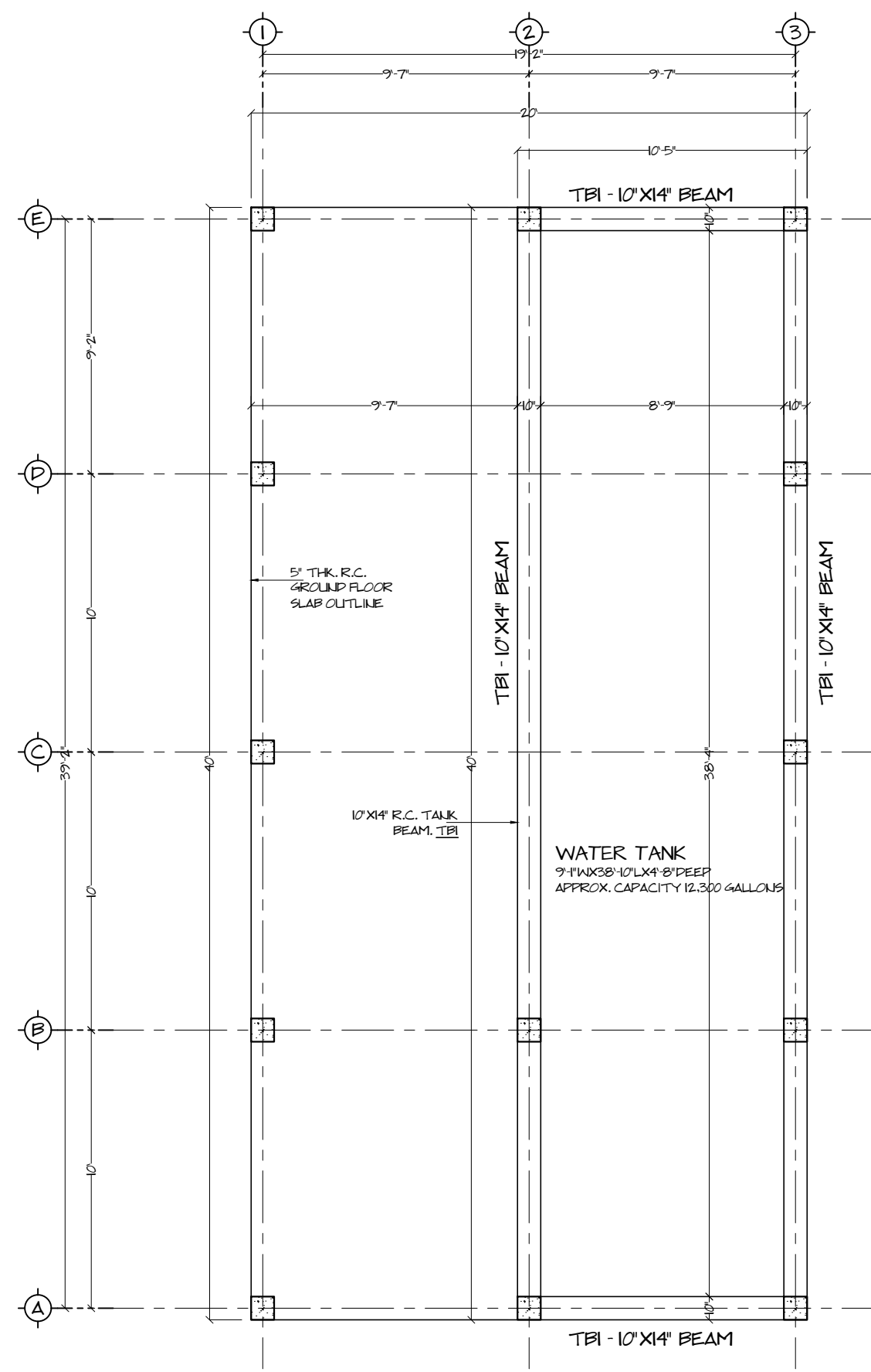
Job Title
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Drawing Name
WATER TANK BEAM & GROUND FLOOR COLUMN & REINF. PLAN

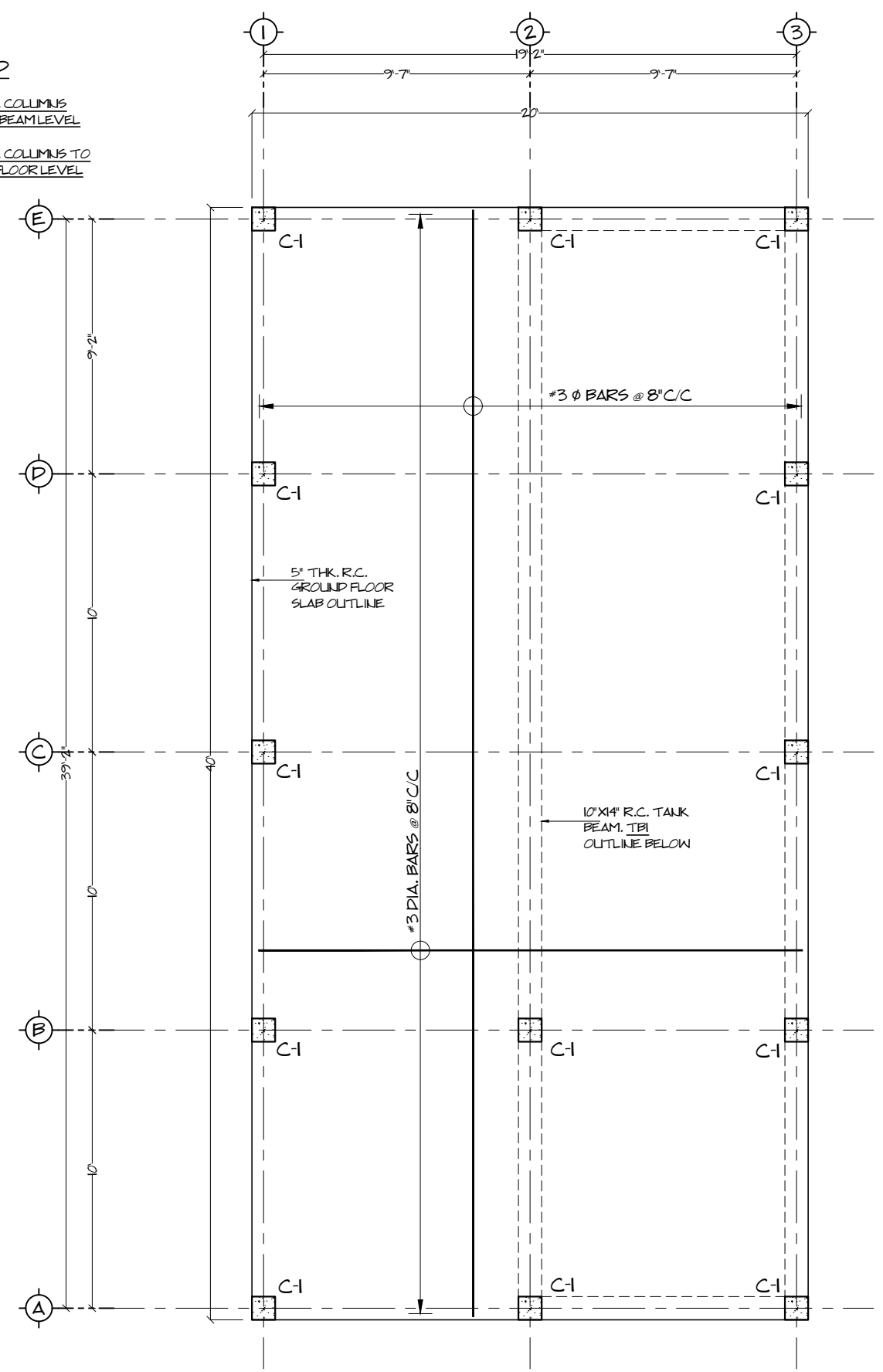
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Stamps & Seals



LEGEND
 10'X10' R.C. COLUMNS TO ROOF BEAM LEVEL
 10'X10' R.C. COLUMNS TO GROUND FLOOR LEVEL



01
S03

02
S03



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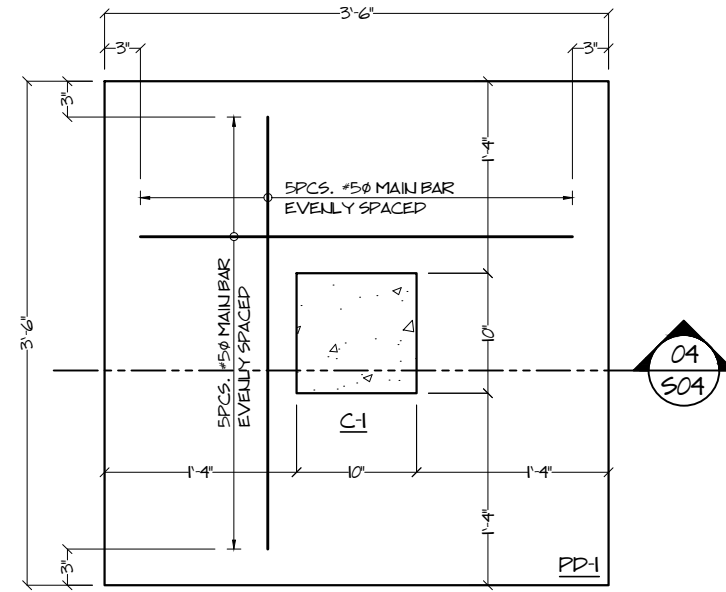
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Drawing Name
FOUNDATION, BEAM & COLUMN DETAILS

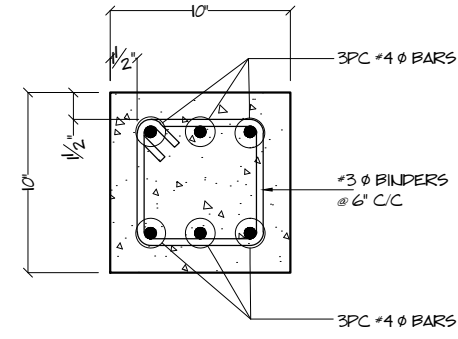
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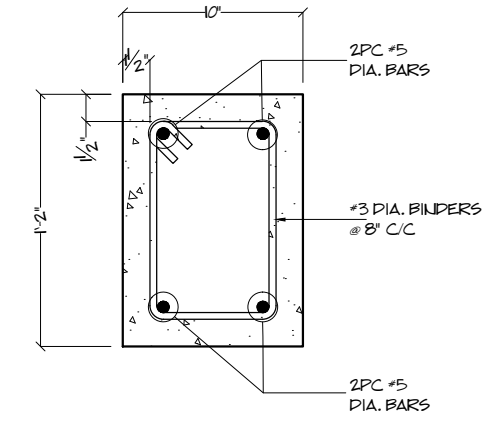
Stamps & Seals



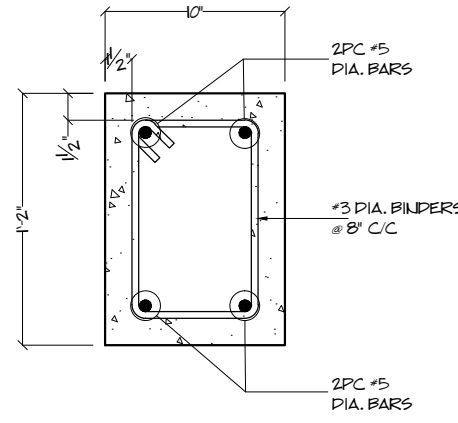
01 S04 **PAD FOOTING PD-1**
 PLAN VIEW SCALE: 3/4" = 1'-0"



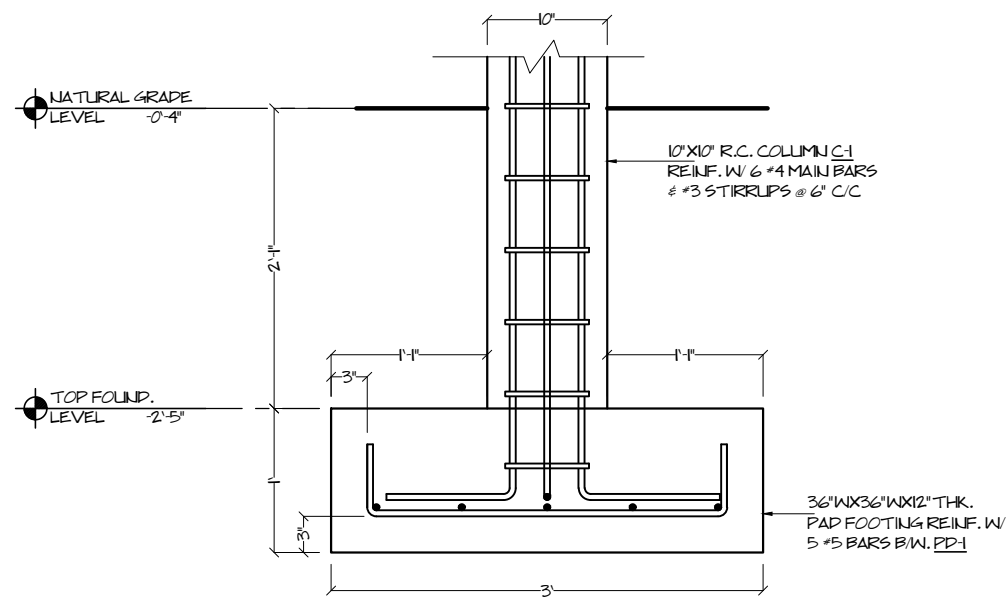
02 S04 **R.C. COLUMN DETAIL C-1**
 SECTION SCALE: 1 1/4" = 1'-0"



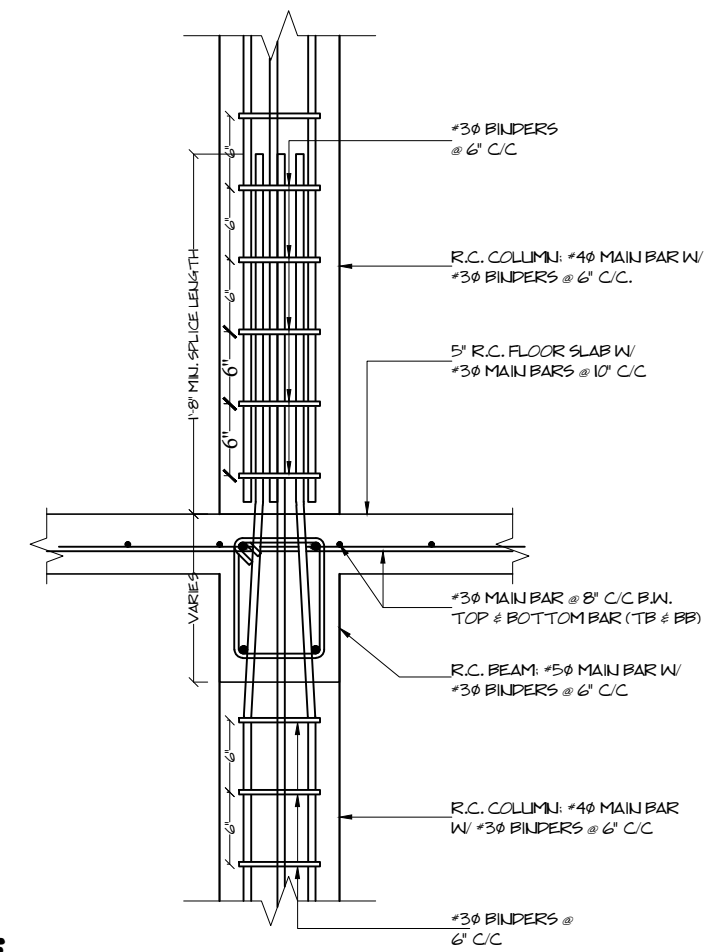
03 S04 **R.C. TANK BEAM - TBI 10" x 14"**
 SECTION SCALE: 1 1/4" = 1'-0"



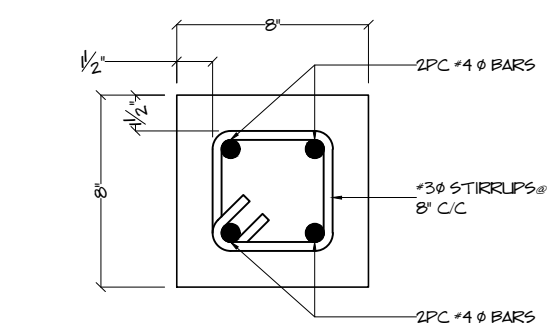
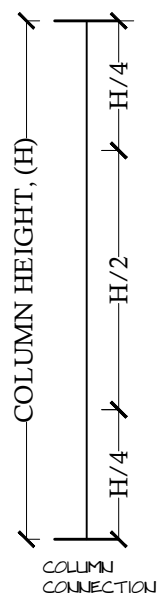
05 S04 **R.C. ROOF BEAM - RB 10" x 14"**
 SECTION SCALE: 1 1/4" = 1'-0"



04 S04 **PAD FOOTING PD-1**
 SECTION SCALE: 3/4" = 1'-0"



07 S04 **COLUMN CONNECTION DETAIL**
 SCALE: N.T.S.



06 S04 **TANK INTERMEDIATE BEAM DETAIL**
 SCALE: 2" = 1'-0"



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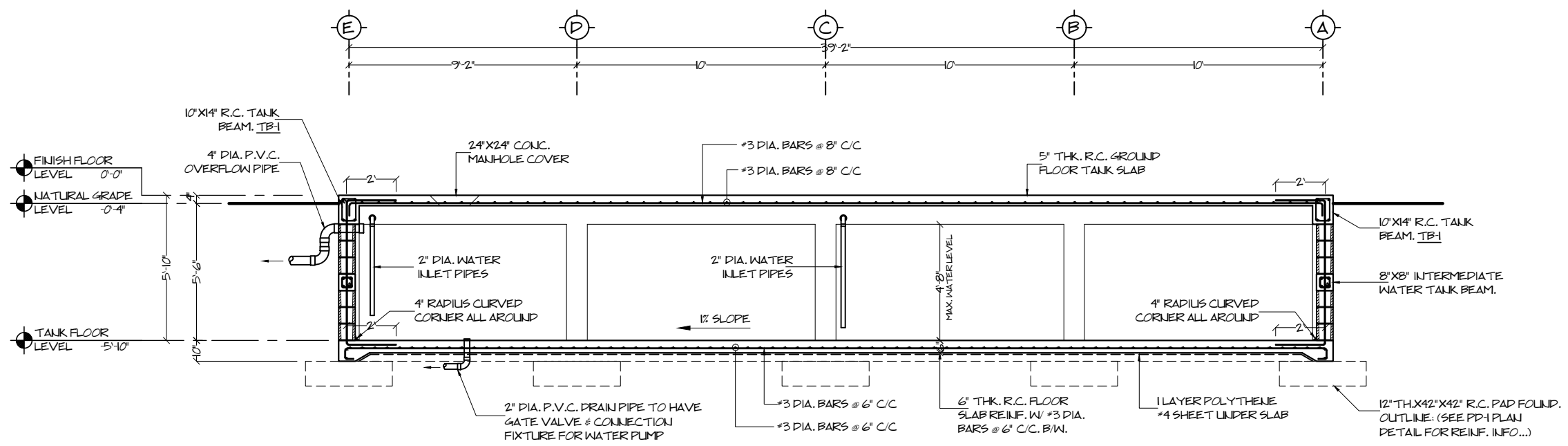
Job Title
Proposed Residence
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Drawing Name
WATER TANK SECTIONS

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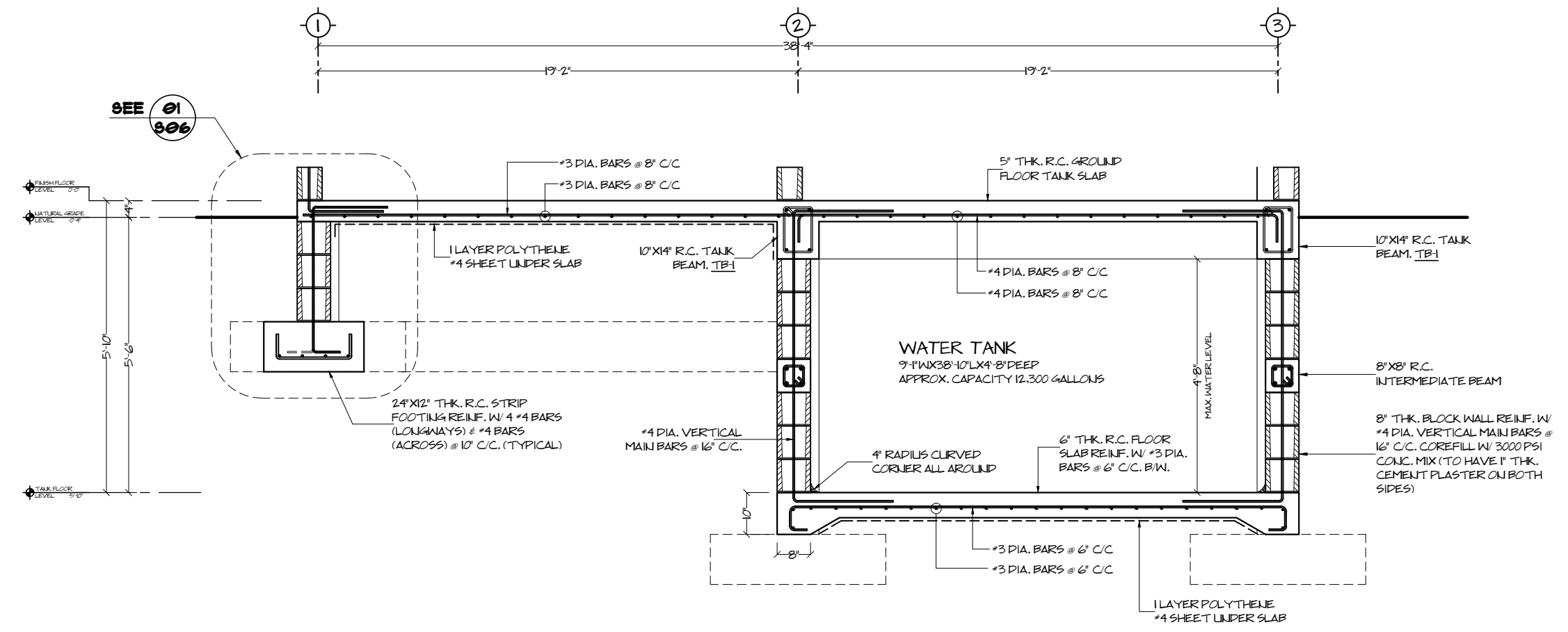
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S05

Stamps & Seals



01
S05

WATER TANK SECTION
 SCALE: 3/16" = 1'-0"



02
S05

WATER TANK SECTION
 SCALE: 3/8" = 1'-0"



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Proposed Residence

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Drawing Name
FOOTING & COLUMN CONNECTION DETAILS

Drawn by
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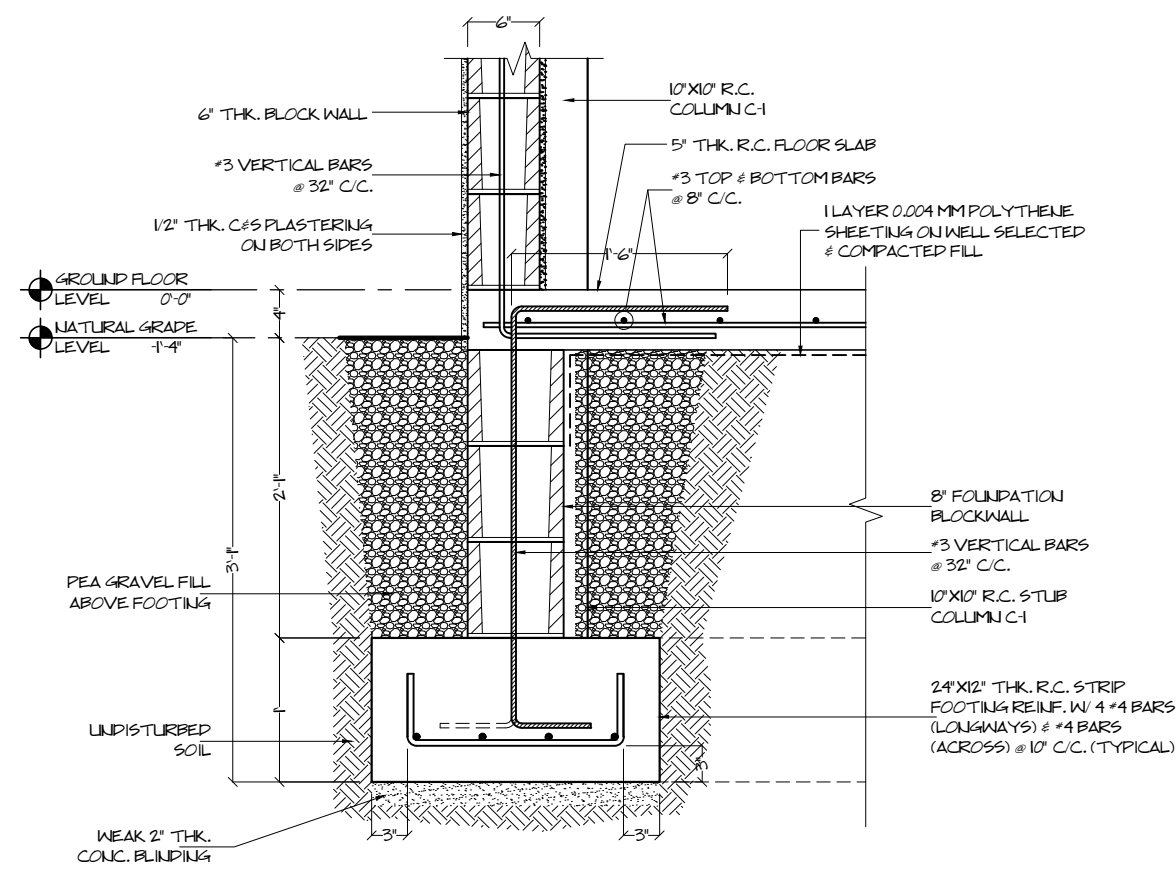
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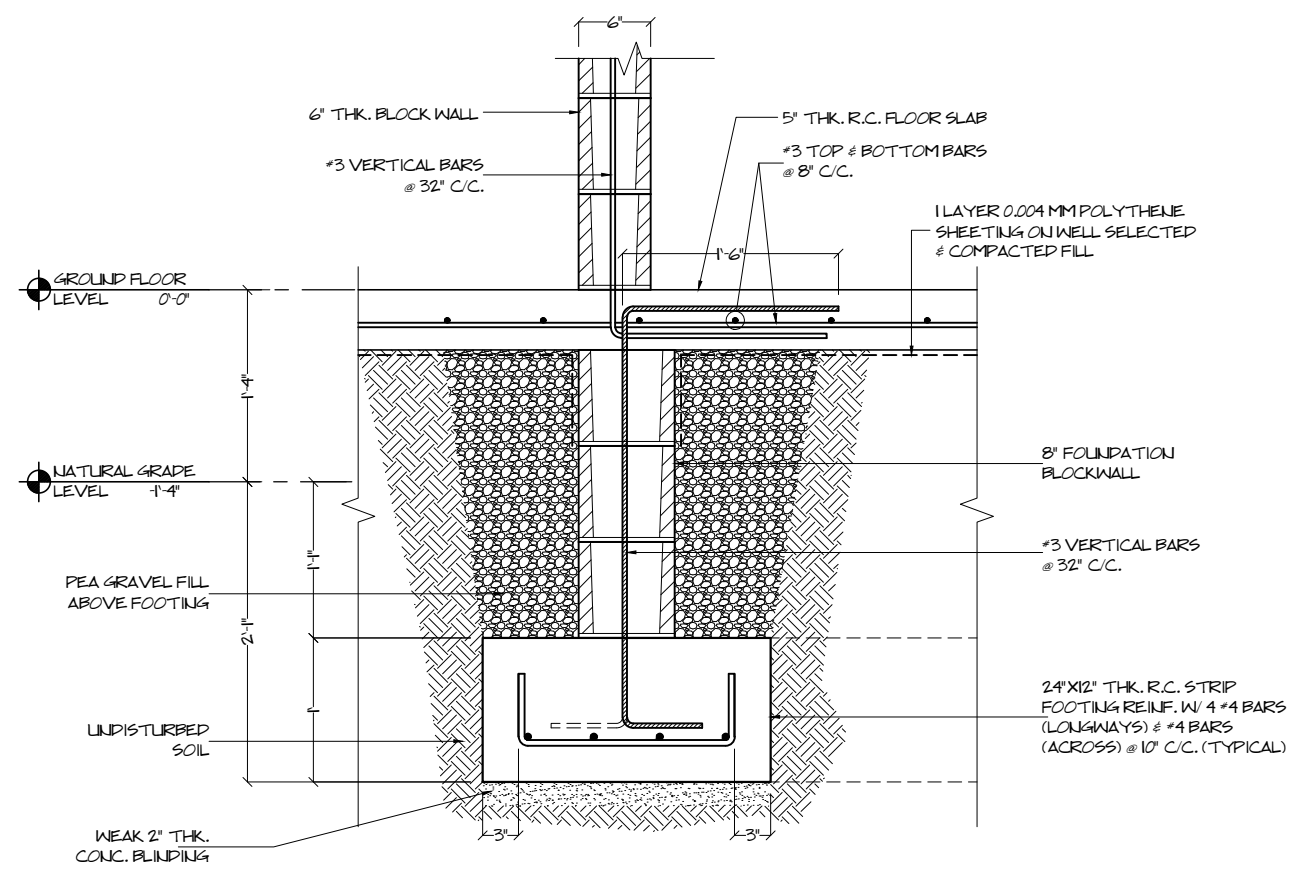
Stamps & Seals



SECTION DETAIL - STRIP FOOTING (PERIMETER)

01
 S06

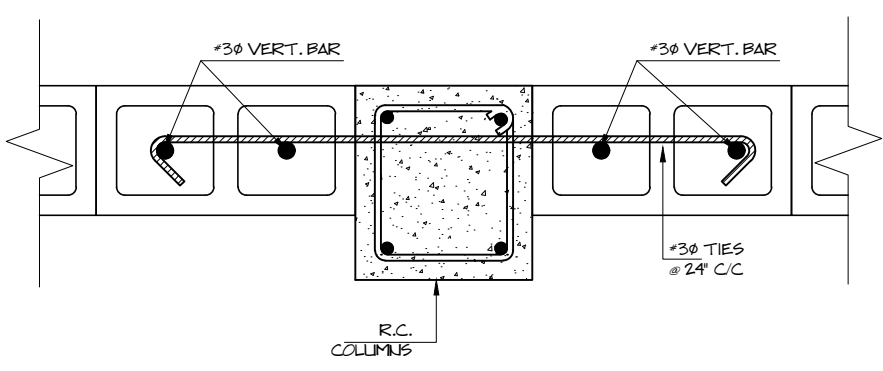
SCALE: 3/4" = 1'-0"



SECTION DETAIL - STRIP FOOTING (INTERMEDIATE)

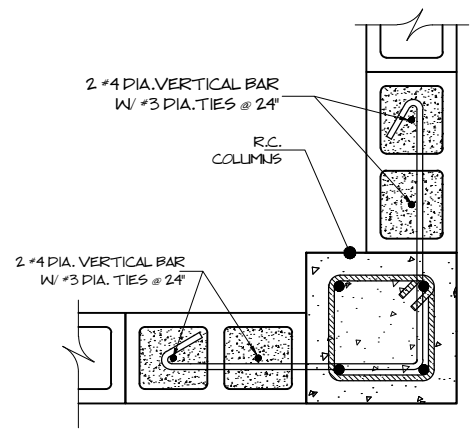
02
 S06

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



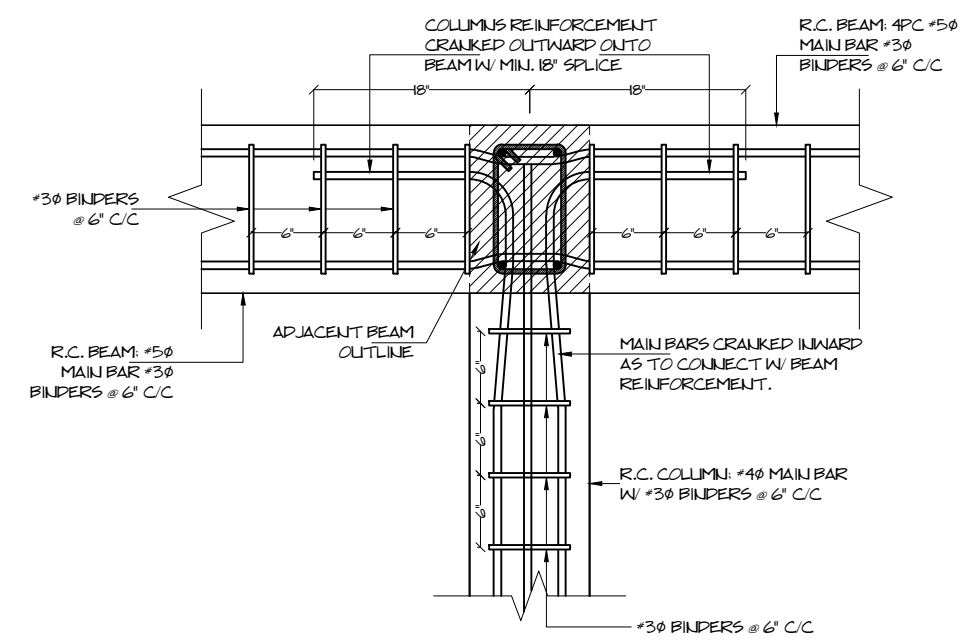
WALL & COLUMN DETAIL
 SCALE: N.T.S.

03
 S06



BLOCK/ COLUMN WALL CORNER DETAIL
 SCALE: N.T.S.

04
 S06



COLUMN END DETAIL
 SCALE: N.T.S.

05
 S06

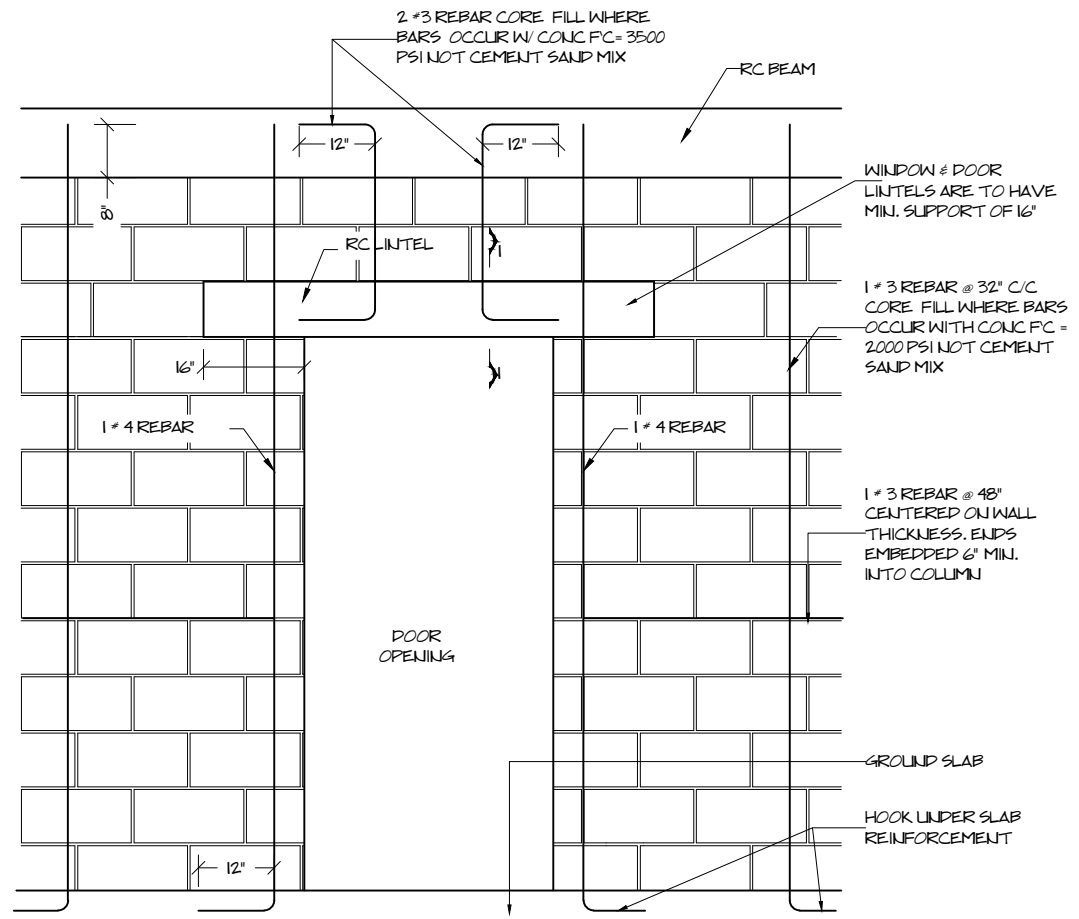


NOTE:
THESE DIAGRAM ARE SCHEMATIC. THEY ARE NOT INTENDED TO SHOW THE NUMBER OF BLOCK ROWS FOR THE WALL. FOR TOTAL HEIGHT OF WALLS PLEASE REFER TO ARCHITECTURAL SECTIONS.

NOTE:
- CORE WITH REINFORCEMENT TO BE FILLED WITH 3500 PSI CONCRETE
- ALL CONCRETE MASONRY UNITS SHALL HAVE AT LEAST 700 PSI (GROSS) MIN. COMPRESSIVE STRENGTH AT 28 DAYS.

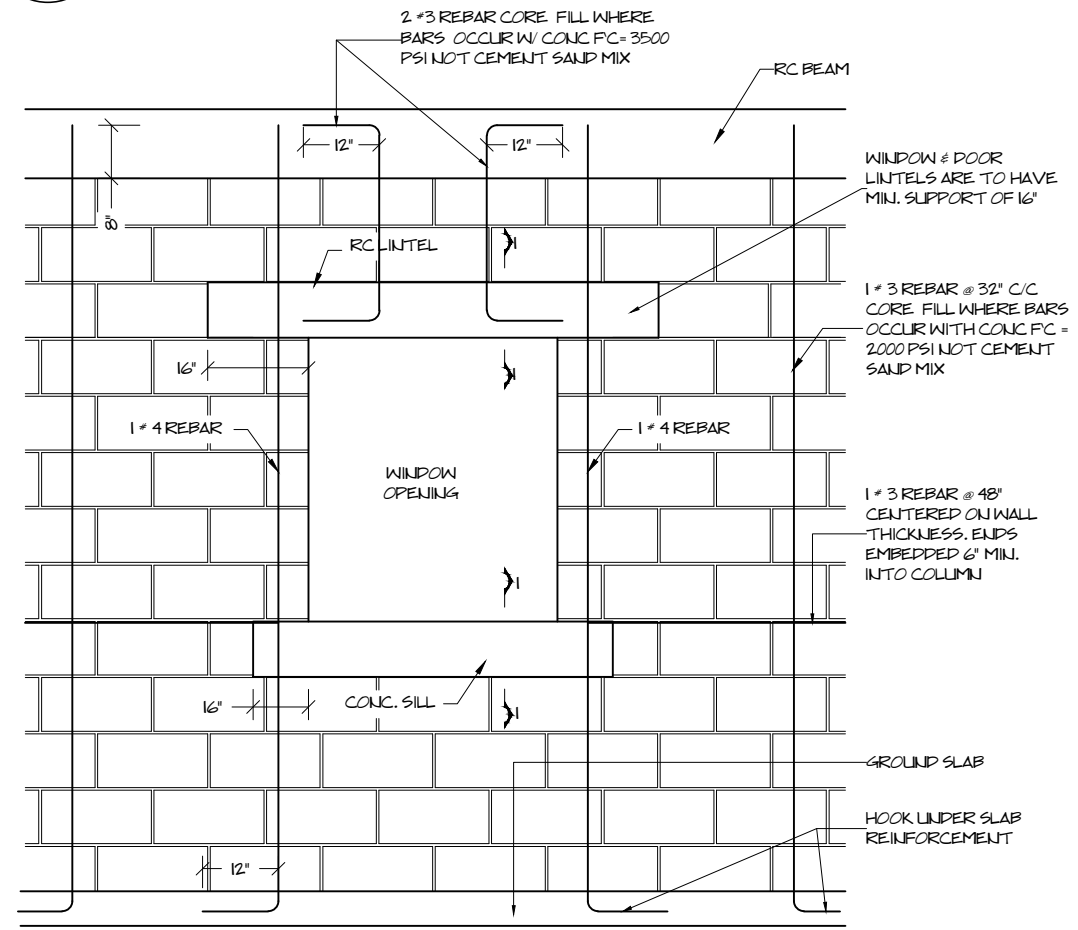
01
S07

TYPICAL DOOR OPENING
SCALE: N.T.S.



02
S07

TYPICAL WINDOW OPENING
SCALE: N.T.S.



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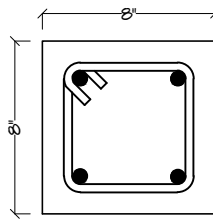
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Proposed Residence
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Drawing Name
WALL, SILL, LINTEL & BEAM DETAILS

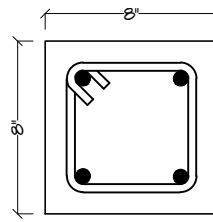
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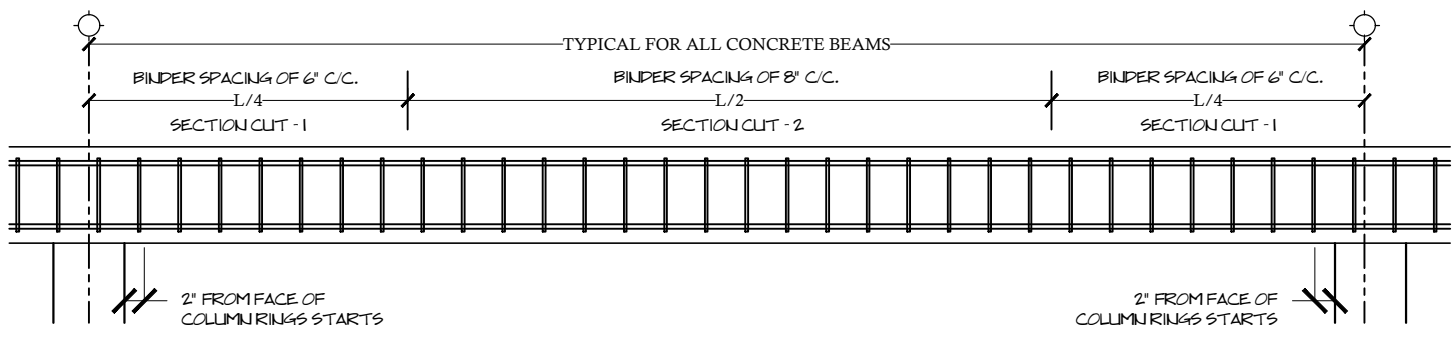
2 #4 DIA. REBAR (TOP BARS)
#3 DIA. TIES @ 8" C/C
2 #4 DIA. REBAR (BOTTOM BARS)



2 #4 DIA. REBAR (TOP BARS)
#3 DIA. TIES @ 8" C/C
2 #4 DIA. REBAR (BOTTOM BARS)

03
S07

LINTEL & SILL SECTIONS
SCALE: N.T.S.



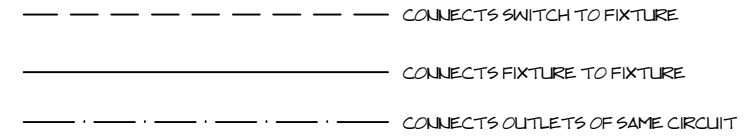
04
S07

TYPICAL BEAM SECTION
SCALE: N.T.S.

ELECTRICAL LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
120 V FLUSH 3-PIN OUTLET 16" OFF FINISHED GROUND LEVEL.		PUSH BUTTON SWITCH (DOOR BELL)		EMERGENCY EXIT LIGHTED SIGN	
120 V FLUSH 3-PIN OUTLET UNDER BUILDING		SINGLE POLE LIGHT SWITCH		MOTION SENSOR SPOT LIGHT WITH PHOTO CELL LIGHT SWITCH	
COUNTER TOP OUTLET 42" ABOVE FINISHED GROUND LEVEL		DOUBLE POLE LIGHT SWITCH		1X20 TUBE FLUORESCENT, 1 LAMP, 120V	
120 V FLUSH 3-PIN OUTLET @ FINISHED FLOOR LEVEL.		3WAY LIGHT SWITCH		2X40 TUBE FLUORESCENT, 1 LAMP, 120V	
120 V FLUSH 3-PIN OUTLET @ CEILING LEVEL FOR GARAGE DOOR MECHANISM.		4WAY LIGHT SWITCH		LOW PROFILE WRAPAROUND FLUORESCENT LAMP, 2 LAMP, 2X20	
GFCI FLUSH OUTLET WITH WEATHER PROOF COVER PLATES.		FLUORESCENT CEILING LIGHT FIXTURE		LOW PROFILE WRAPAROUND FLUORESCENT LAMP, 2 LAMP, 2X40	
240 V FLUSH OUTLET 42" OFF FINISHED GROUND LEVEL.		4" RECESS LIGHTING		EXTRACTOR FAN / EXHAUST FAN	
CABLE TELEVISION TERMINAL POINT		6" HANGING CEILING LIGHT FIXTURE		CHANDELIER LIGHT FIXTURE	
TELEPHONE TERMINAL POINT .		INTERNAL WALL HUNG LIGHT FIXTURE (SCONCE)		PREMIUM TROFFER 2SP SERIES, 24"X24"	
ETHERNET TERMINAL POINT .		EXTERNAL WALL HUNG LIGHT FIXTURE		DECORATIVE CEILING FAN COMPLETE W LIGHTS	
GROUND FAULT CIRCUIT INTERRUPTER		VANITY WALL HUNG LIGHT FIXTURES REFLECTING ON CEILING			
PHOTO CELL LIGHT SWITCH		VANITY TRACK LIGHTS			
CLASS A FIRE EXTINGUISHER (28 LBS.)					
ADDRESSABLE SMOKE DETECTOR					
DISTRIBUTION PANEL (RECESSED)					
CONDENSING SPLIT UNIT					
EVAPORATOR SPLIT UNIT					

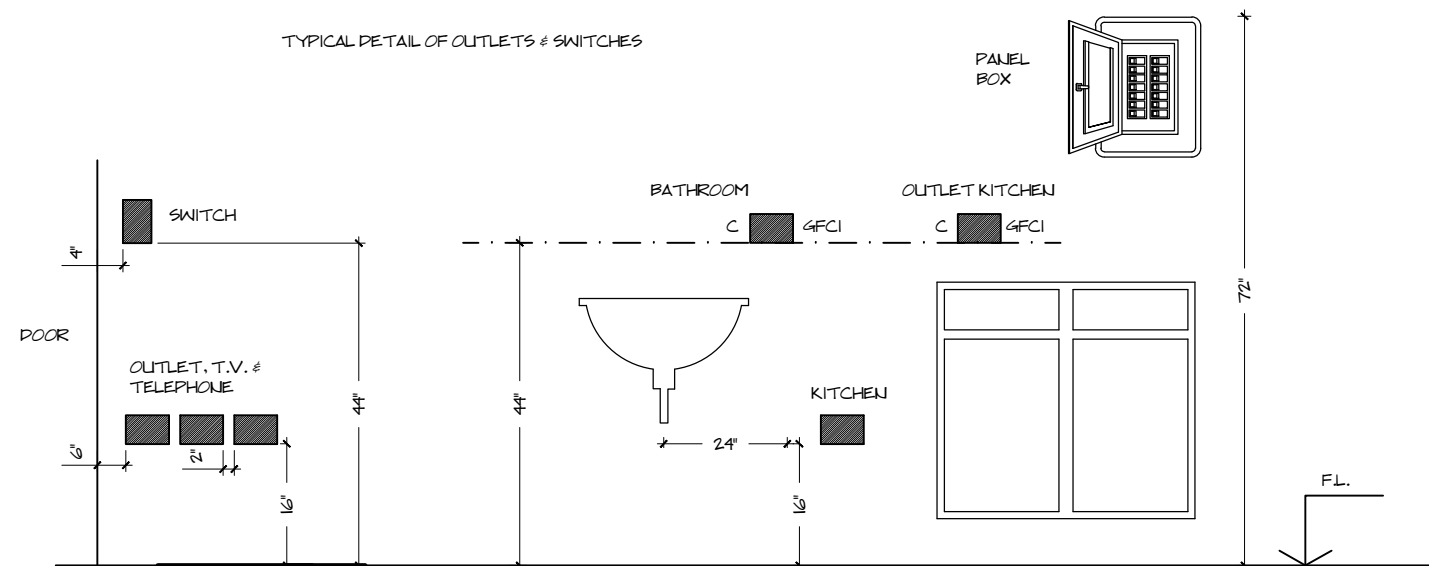
WIRES:



GENERAL ELECTRICAL NOTES

- ALL WORKS SHALL BE DONE IN ACCORDANCE WITH LOCAL APPLICABLE CODE.
- THE DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS, BENDS AND BOXES REQUIRED TO MAKE A COMPLETE NEAT INSTALLATION IN ACCORDANCE WITH APPLICABLE CODE.
- APPROVAL SHALL BE OBTAINED FROM STRUCTURAL ENGINEER PRIOR TO CUTTING OR DRILLING ANY STRUCTURAL SUPPORT MEMBER.
- WIRE SIZES SHALL BE #12 THIN / THIN UNLESS OTHERWISE NOTED ON PLANS. CONDUCTOR #6 OR LARGER SHALL BE THIN.
- ALL CONDUCTORS TO BE COPPER UNLESS OTHERWISE NOTED
- ALL CONDUCTORS SHALL BE RUN IN CONDUIT. (NON-METALLIC TYPE) NMC CABLE IS PERMITTED AS AN OPTION. IF PVC SCHEDULE 40 IS USED FOR UNDERGROUND FEEDERS ONLY. AN EQUIPMENT GROUND CONDUCTOR MUST BE INSTALLED AND CONDUIT SIZE INCREASE AS REQUIRED. THE USE OF NMC IS PERMITTED FOR ALL OTHER WIRING.
- ALL NON POWER RELATED WIRING CAN BE RUN IN CEILING PLENUM WITHOUT CONDUIT
- FUSES SHALL BE DUAL ELEMENT, TIME DELAY TYPE UNLESS OTHERWISE NOTED.
- ALL LUMINARIES SHALL BE PROPERLY SUPPORTED IN ACCORDANCE WITH THE CEILING SYSTEM MANUFACTURER RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS.
- THIS DRAWING IS A GUIDE FOR THE ELECTRICAL INSTALLATION OF ELECTRICAL SERVICE. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE A FUNCTIONING SYSTEM.
- ALL CABLES SHALL BE RUN WITHOUT SPLICES EXCEPT OTHERWISE INDICATED.
- ALL PULL AND JUNCTION BOXES SHALL BE ACCESSIBLE AT ALL TIMES
- EXACT POINT AND METHODS OF CONNECTION SHALL BE DETERMINED IN FIELD.
- ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER.
- ALL RACEWAY ROUTED, INSULATED CONDUCTORS SYSTEMS SHALL BE COLOR CODED AS FOLLOWS:
 240/120V SYSTEM
 PHASE 'A' BLACK
 PHASE 'B' RED
 PHASE 'C' BLUE
 NEUTRAL WHITE
 GROUND GREEN
- ALL ROUGH IN DIMENSIONS ARE TO CENTER LINE OF DEVICE UNLESS OTHERWISE NOTED.
- ALL CONDUCTOR SPLICES IN EXTERIOR LOCATED PULL BOXES EXPOSED TO THE WEATHER TO BE WEATHER SEALED.
- CONTRACTOR IS ALLOWED TO REARRANGE THE DISTRIBUTION OF THE ELECTRICAL LOADS CONNECTED TO THE BRANCH CIRCUITS IN THE FIELD, AS LONG AS LOAD IS BALANCED & INDEPENDENT CIRCUIT LOADING IS IN COMPLIANCE WITH LOCAL CODE.
- DISTRIBUTION PANELS SHALL BE NEMA1 WITH PUSH-ON BREAKERS COMPLETE WITH SEPARATE NEUTRAL AND GROUND BARS AS IS EXISTING.
- TELEPHONE WIRING SHOULD BE 2 RUNS OF CAT 5 NETWORK CABLING.

TYPICAL DETAIL OF OUTLETS & SWITCHES



NOTE: ALL SWITCHES AND OUTLETS TO BE AT LEAST 4" AWAY FROM DOOR OR WINDOWS OPENING



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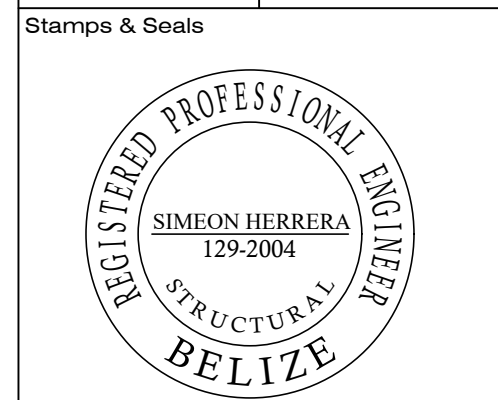
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Job Title
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Drawing Name
ELECTRICAL LEGEND & NOTES

Drawn by Date
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Drawing Name
ELECTRICAL LIGHTING & POWER PLAN

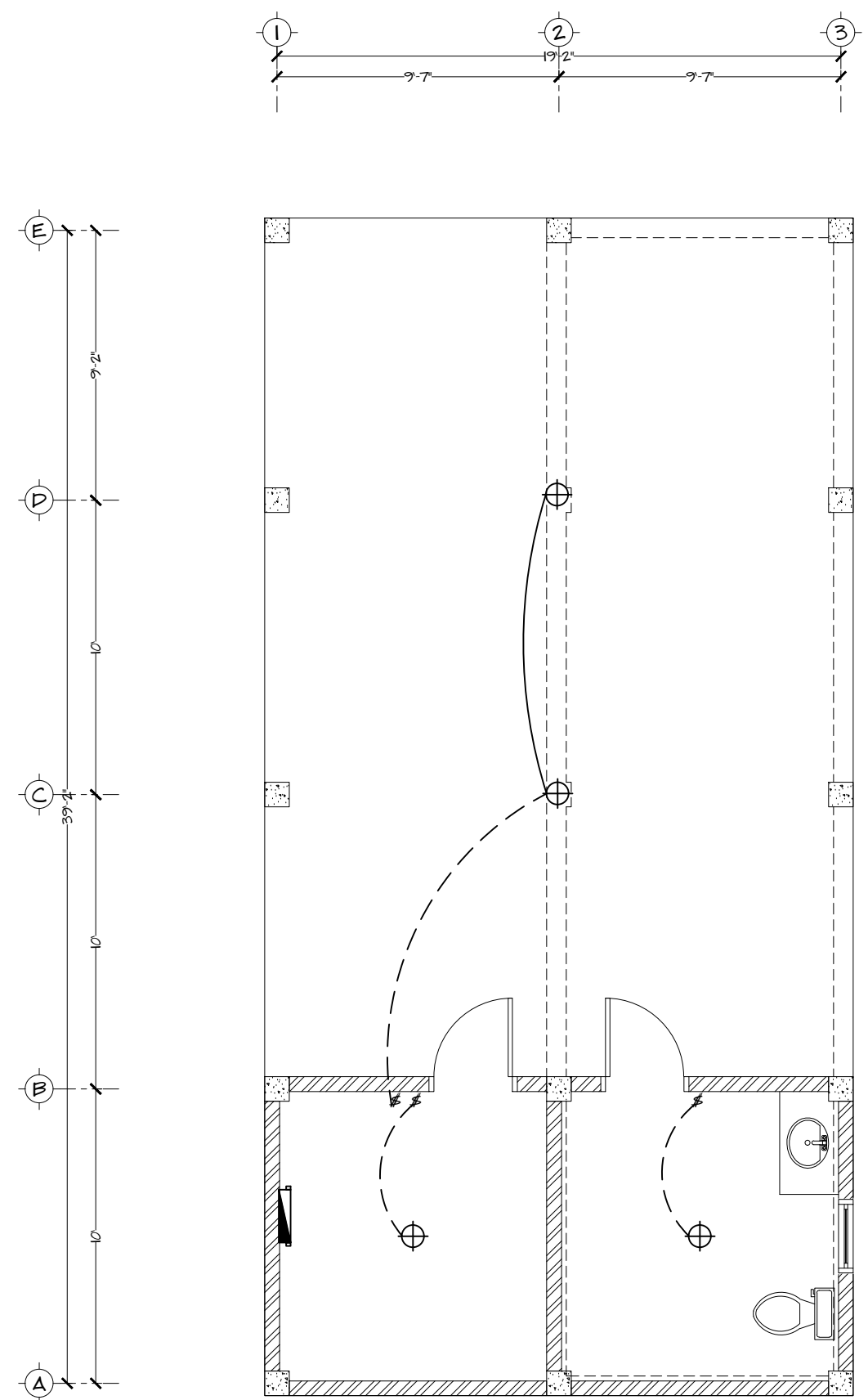
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Drawing Scale	As Shown

Stamps & Seals

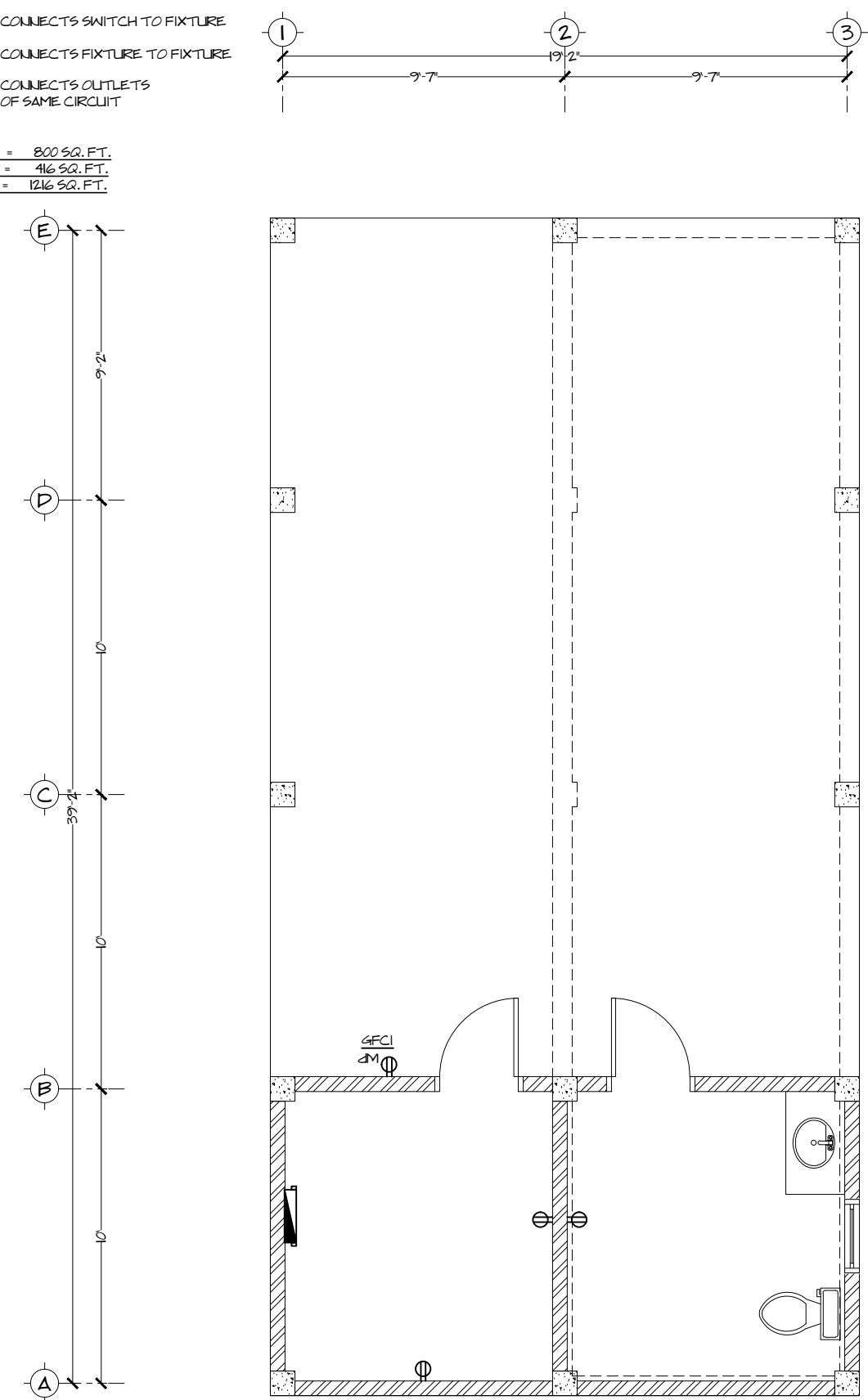
WIRES:
 - - - - - CONNECTS SWITCH TO FIXTURE
 _____ CONNECTS FIXTURE TO FIXTURE
 - - - - - CONNECTS OUTLETS OF SAME CIRCUIT

TOTAL FLOOR AREAS = 800 SQ. FT.
 BUILDING AREAS = 416 SQ. FT.
 WATER CISTERN = 416 SQ. FT.
 TOTAL FLOOR AREAS = 1216 SQ. FT.



01
M02

ELECTRICAL LIGHTING PLAN
 SCALE: 3/16" = 1'-0"



02
M02

ELECTRICAL POWER PLAN
 SCALE: 3/16" = 1'-0"

PLUMBING LEGEND

SYMBOL	DESCRIPTION
	4" P.V.C. SOLID WASTE PIPE (4" SW), FROM W.I.C. TO SEPTIC TANK
	2" P.V.C. LIQUID WASTE PIPE (2" LW), FROM ALL FIXTURES TO SOAK-AWAY
	2" P.V.C. VENT PIPE (2" V.T.), FROM ALL FIXTURES TO MAIN STOCK THROUGH CEILING
SYMBOL	DESCRIPTION
	3/4" COLD WATER PIPE (3/4" CW), FROM WATER SYSTEM TO ALL FIXTURES
	1/2" HOT WATER PIPE (1/2" HW), FROM HEATER TO FIXTURES THAT REQUIRE HOT WATER
	WATER METER
	GATE VALVE
	SHUT OFF VALVE
	CHECK VALVE
	ON DEMAND WATER HEATER
	ELECTRONIC WATER PUMP
	PRESSURE TANK
	PIPE CONNECTIONS GOING UP TO UPPER FLOOR
	PIPE CONNECTION GOING DOWN TO LOWER FLOOR
	FIXTURE CONNECTION TO PIPE
	ELBOW: 90 FLANGE JOINT
	ELBOW: 90 DOUBLE FLANGE JOINT
	ELBOW: 135 FLANGE JOINT
	ELBOW: 135 DOUBLE FLANGE JOINT
	ELBOW: 135 DOUBLE FLANGE JOINT WITH CLEAN-OUT ACCESS
	MAIN VENT

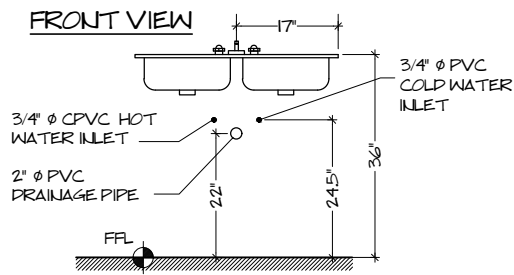
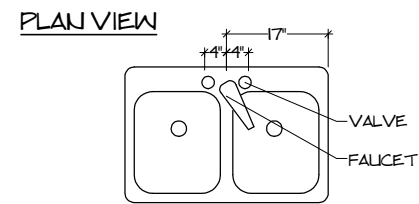
GENERAL PLUMBING NOTES

- 1.- MAIN POTABLE WATER PIPE TO BE 3/4" PVC SCH 40 PIPE.
- 2.- POTABLE WATER PIPE THAT LEADS TO ACCESSORIES TO BE 3/4" PVC SCH 40 PIPE.
- 3.- HOT WATER PIPE TO BE 1/2" LPVC SCH 40 PIPE (IF REQUIRED)
- 4.- DISCHARGE PIPES FROM WATER CLOSETS KNOWN AS SOLID WASTE PIPES TO BE 4" SCH 40
- 5.- DISCHARGE PIPES FROM LAVATORIES KNOWN AS LIQUID WASTE PIPES TO BE 2" SCH 40
- 6.- ALL FITTING FOR LINES TO BE INCLUDED. VENT PIPES TO BE 2" AND TO INCLUDE A MAIN VENT STOCK OF 2".
- 7.- CHANGES IN DIRECTION OF SOIL/WASTE LINES TO BE AT 135.
- 8.- ALL FIXTURES SHALL HAVE A 1/2" ANGLE VALVE.

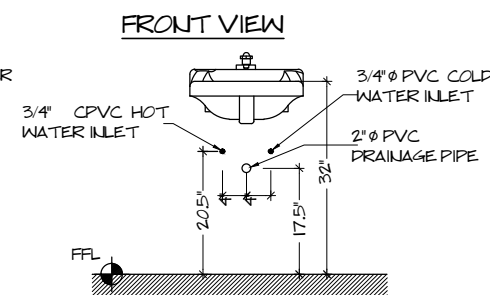
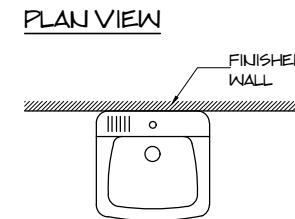
- 9.) ALL DRAINAGE PIPES CHANGE IN DIRECTION TO BE FITTED WITH A 135 ELBOW, EITHER SINGLE OR DOUBLE FLANGE JOINT.
- 10.) CHANGE IN DIRECTIONS SHOULD BE FITTED WITH A CLEAN OUT POINT THAT COULD BE EASILY ACCESSED & SEALED AFTER USE.
- 11.) DRAINAGE SLOPE IS CALCULATED BASED ON MAGUIRE'S RULE OF THUMB, WHICH GIVES A FALL ACCORDING TO RATE OF FLOW (VELOCITY), DEPENDING ON THE DIAMETER OF THE PIPE. THE VELOCITY REQUIRED SHOULD BE AT LEAST 0.75 / (2.46 /), TO ENSURE SELF CLEANSING WITH A DRAINAGE CAPACITY OF CLEAR FLOW CONDITION.

DRAINAGE SLOPE FOR DRAINAGE PIPES
 4" SW PIPE: USE A SLOPE OF 1 IN 40
 2" LW PIPE: USE A SLOPE OF 1 IN 20

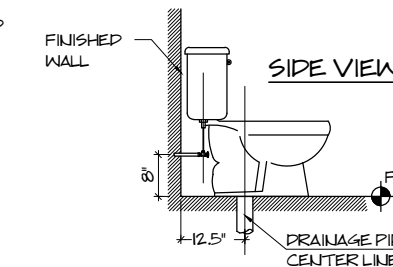
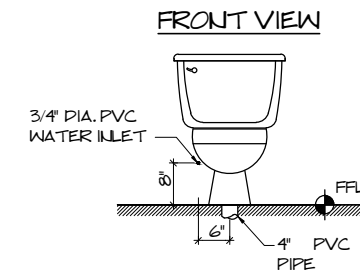
- 12.) ONLY VENT PIPES CHANGE IN DIRECTION COULD BE FITTED WITH A 90 ELBOW, EITHER SINGLE OR DOUBLE FLANGE JOINT.



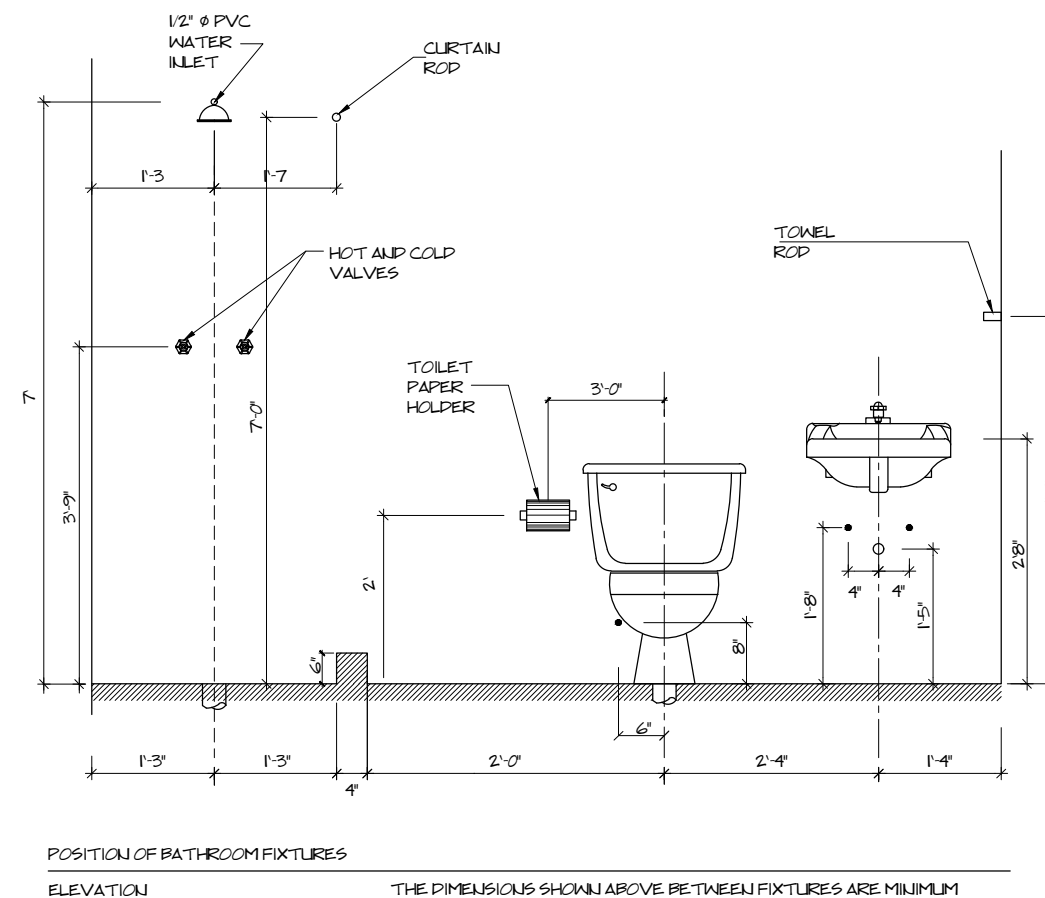
KITCHEN SINK
SUPPLY & DRAINAGE INSTALLATION N.T.S.



WASH HAND BASIN
SUPPLY & DRAINAGE INSTALLATION N.T.S.



WATER CLOSET W/ TANK
SUPPLY & DRAINAGE INSTALLATION SCALE: N.T.S.



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Drawing Name
PLUMBING LEGEND & NOTES

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Project Number
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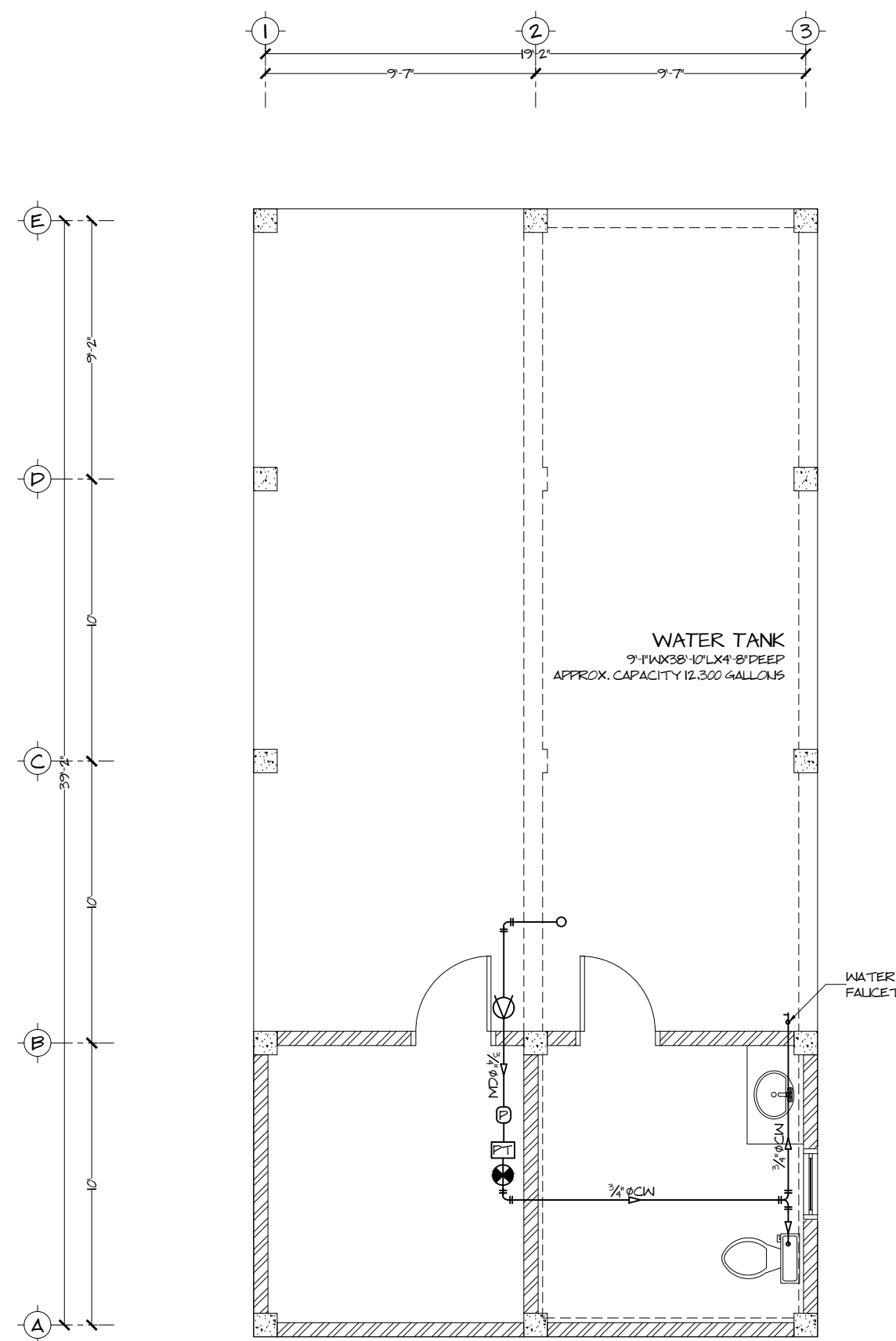
Job Title
Proposed Residence
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Drawing Name
PLUMBING SUPPLY & DRAINAGE PLAN

Drawn by
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 Checked by
 Date
 Nov., 2018
 Date

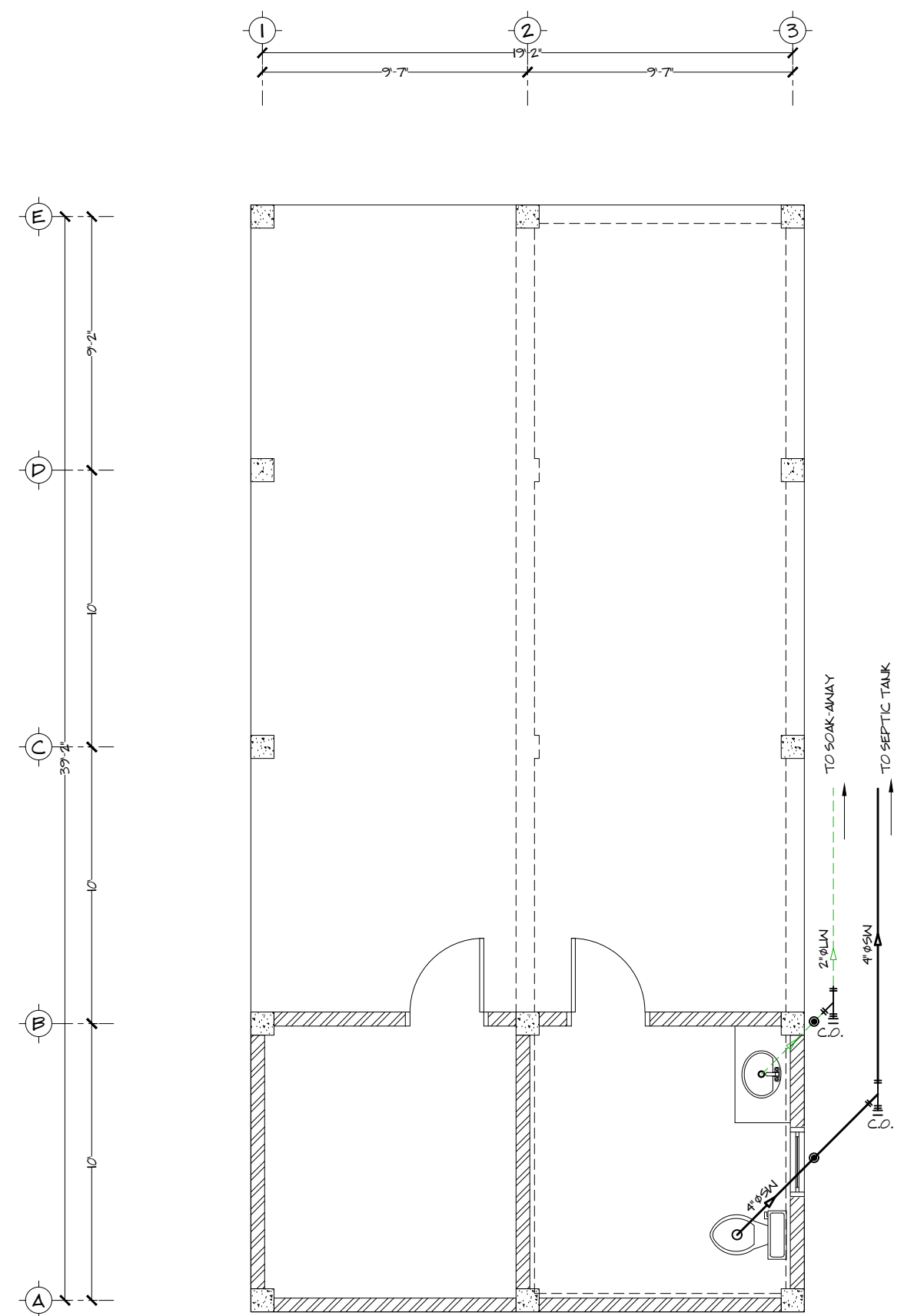
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M04

Stamps & Seals



01
M04

PLUMBING SUPPLY PLAN
 SCALE: 3/16" = 1'-0"



02
M04

PLUMBING DRAINAGE PLAN
 SCALE: 3/16" = 1'-0"



Rev	Description	By	Date

NOTES:
 ■ The Contractor shall verify all measurements and report any inconsistencies before commencement.
 ■ **DO NOT SCALE THIS DRAWING.**
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Client
BETTER IN BELIZE
 10.5 mls. Mollejon Road,
 Better in Belize, Cayo District,
 Belize, C.A.

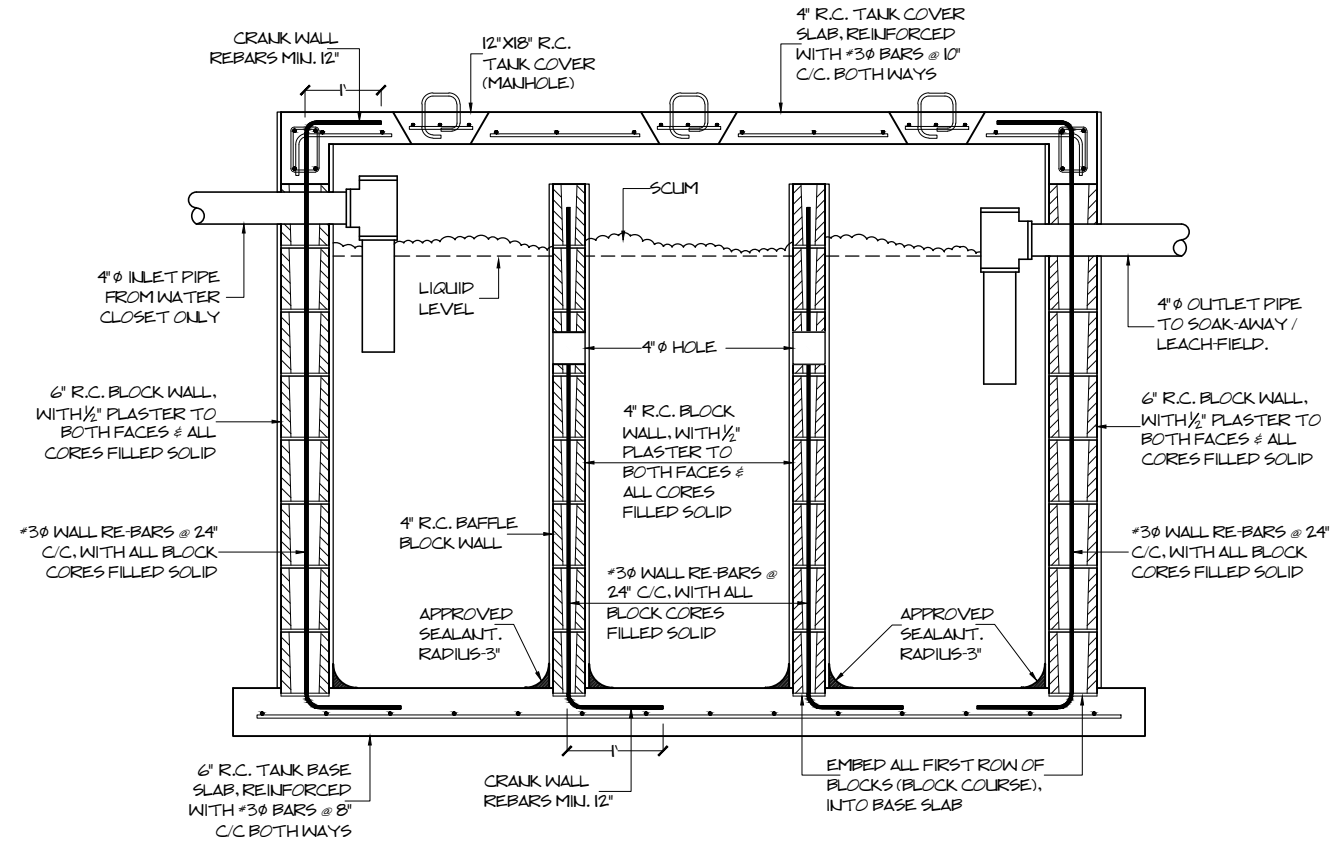
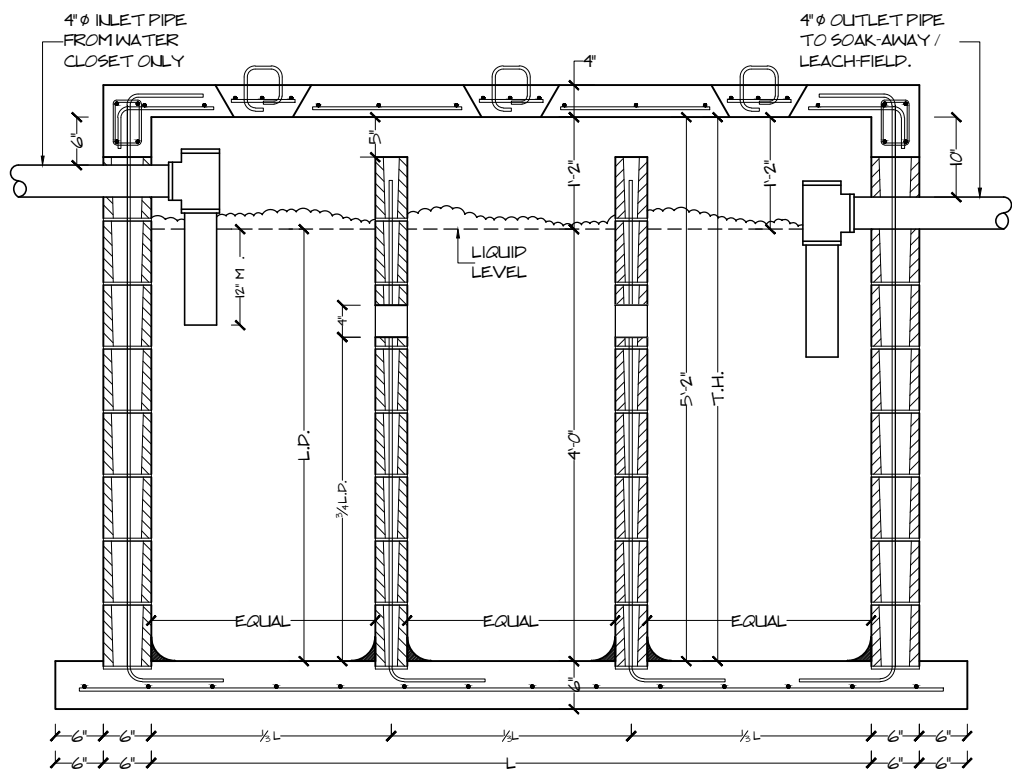
Job Title
Proposed Residence
 10.5 mls. Mollejon Road,
 Better in Belize, Cayo District,
 Belize, C.A.

Drawing Name
SEPTIC TANK DETAILS

Drawn by
 E. Canto Tech.
 Checked by
 Date
 Nov., 2018
 Date

Project Number
 051_18
 Drawing Scale
 As Shown
 Sheet No.
M05

Stamps & Seals




01
M05

SEPTIC TANK DETAIL
 DIMENSIONED SECTION SCALE: N.T.S.

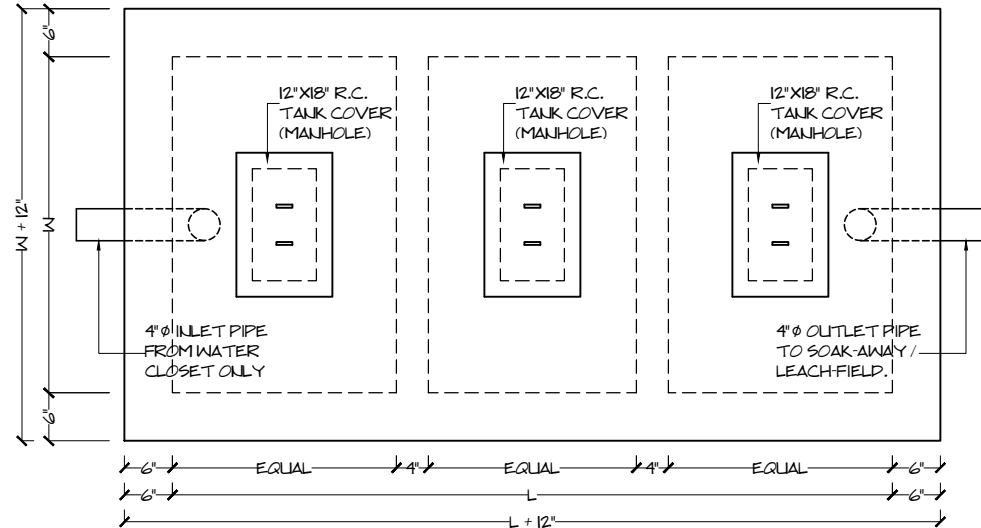
02
M05

SEPTIC TANK DETAIL
 LABELED SECTION SCALE: N.T.S.

NUMBER OF BEDROOMS	MAXIMUM NO. OF PERSONS SERVED	NOMINAL LIQUID CAPACITY OF TANK US GALLONS (APPROX)	RECOMMENDED INSIDE DIMENSIONS			
			LENGTH FT IN	WIDTH FT IN	LIQUID DEPTH FT IN	TOTAL HEIGHT FT IN
2	6	600	7 0	3 0	4 0	5 2

SPECIFICATIONS:

1. INLET PIPE MUST DIP 12" BELOW LIQUID LEVEL IN TANK.
2. TANK MUST BE AIR AND WATER TIGHT.
3. INVERT LEVEL OF OUTLET PIPE MUST BE 2" MINIMUM BELOW TOP OF BAFFLE WALL.



03
M05

SEPTIC TANK DETAIL
 LABELED PLAN VIEW SCALE: N.T.S.



Rev	Description	By	Date

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Client
BETTER IN BELIZE
 10.5 mls. Molejon Road,
 Better in Belize, Cayo District,
 Belize, C.A.

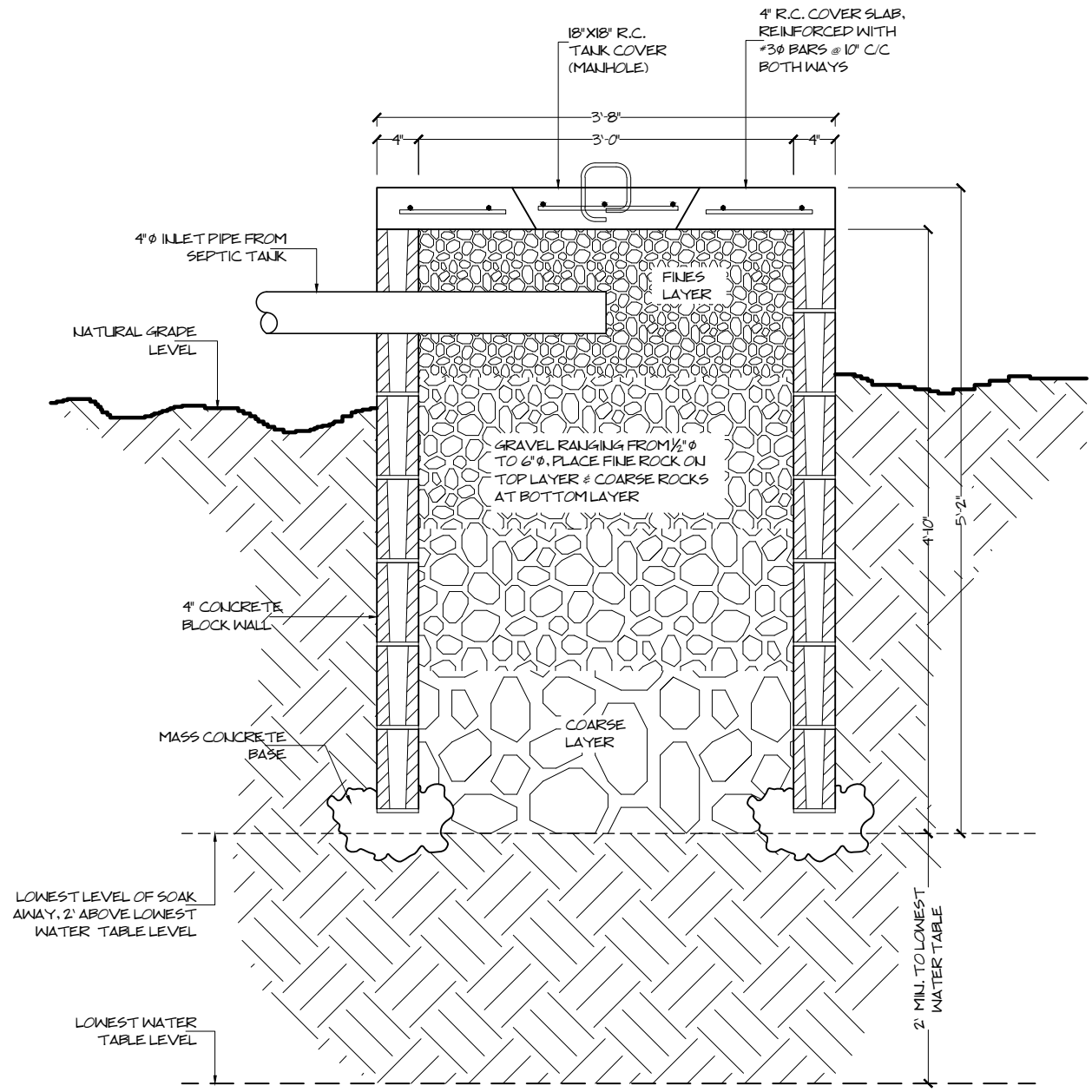
Job Title
Proposed Residence
 10.5 mls. Molejon Road,
 Better in Belize, Cayo District,
 Belize, C.A.

Drawing Name
SOAK-AWAY DETAILS

Drawn by
 E. Canto Tech.
 Checked by
 Date
 Nov., 2018
 Date

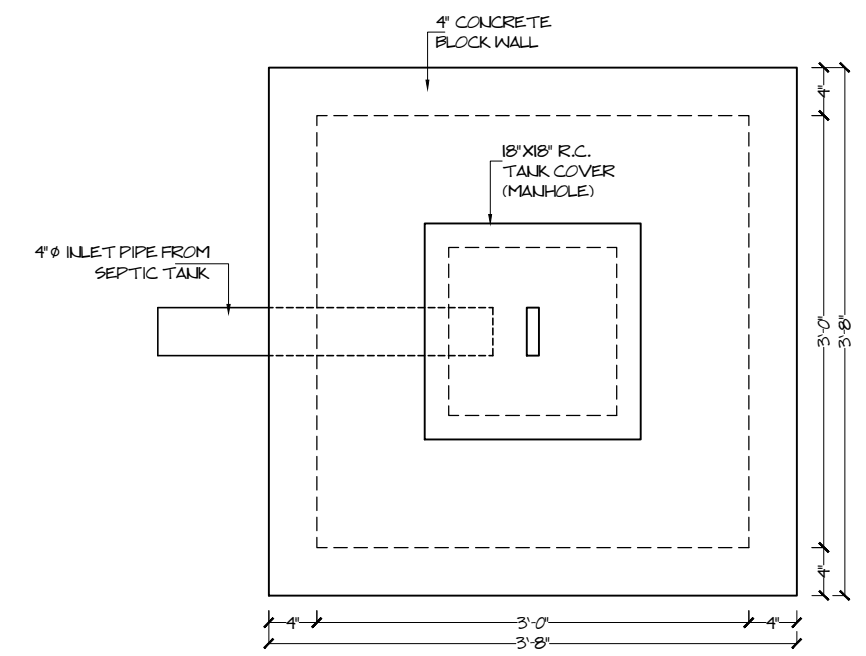
Project Number
 051_18
 Drawing Scale
 As Shown
 Sheet No.
M06

Stamps & Seals



01
 M06

SOAK-AWAY DETAIL
 SECTION THRU SCALE: N.T.S.



02
 M06

SOAK-AWAY DETAIL
 PLAN VIEW SCALE: N.T.S.