

VARIANCE # 19-01-01

19035

SBC PROJECT #

PROJECT NAME

Spring Mill Bible Camp New Cabins

SIGNATURES

✓

APPROPRIATE CODE/SECTION

✓

PLANS

✓

LBO NOTIFICATION

✓

NOTIFICATION OF COMM MEETING

LFO NOTIFICATION

✓

CONTACT/DATE

STAFF COMMENTS

19-01-01



APPLICATION FOR VARIANCE

State Form 44400 (R7 / 10-13)
Approved by State Board of Accounts, 2013

INDIANA DEPARTMENT OF HOMELAND SECURITY
CODE SERVICES SECTION
302 West Washington Street, Room W246
Indianapolis, IN 46204-2739
http://www.in.gov/dhs/fire/fp_bs_comm_code/



INSTRUCTIONS: Please refer to the attached four (4) page instructions.
Attach additional pages as needed to complete this application.

Variance number (Assigned by department)

1. APPLICANT INFORMATION (Person who would be in violation if variance is not granted; usually this is the owner)

Name of	Title
Randy Weilbaker	Chairman
Name of organization	Telephone number
Spring Mill Bible Camp	(502) 548-4570
Address (number and street, city, state, and ZIP code) 2830 State Road 60 East Mitchell IN 47446	

2. PERSON SUBMITTING APPLICATION ON BEHALF OF THE APPLICANT (If not submitted by the applicant)

Name of applicant	Title
Nathan Grimes, PE, PLS, RHI, CEIF,	President
Name of organization	Telephone number
Renaissance Design Build, Inc.	(812) 246-5897
Address (number and street, city, state, and ZIP code) Sellersburg IN 47129	

3. DESIGN PROFESSIONAL OF RECORD (If applicable)

Name of design professional	License number
Isaiah Weilbaker PE	PE11400157
Name of organization	Telephone number
Spring Mill Bible Camp	(812)725-4633
Address (number and street, city, state, and ZIP code) 4609 Brush College Road Floyds Knobs IN 47119	

4. PROJECT IDENTIFICATION

Name of project	State project number	County
Demolition & Construction of new cabins	403225	Lawrence Co
Address of site (number and street, city, state, and ZIP code) 2830 State Road 60 East Mitchell IN 47446		
Type of project <input checked="" type="checkbox"/> New <input type="checkbox"/> Addition <input type="checkbox"/> Alteration <input type="checkbox"/> Change of occupancy <input type="checkbox"/> Existing		

5. REQUIRED ADDITIONAL INFORMATION

The following required information has been included with this application (check as applicable):

- A check made payable to the Indiana Department of Homeland Security for the appropriate amount. (see instructions)
- One (1) set of plans or drawings and supporting data that describe the area affected by the requested variance and any proposed alternatives.
- Written documentation showing that the local fire official has received a copy of the variance application.
- Written documentation showing that the local building official has received a copy of the variance application.

6. VIOLATION INFORMATION

Has the Plan Review Section of the Division of Fire and Building Safety issued a Correction Order?
 Yes (If yes, attach a copy of the Correction Order.) No

Has a violation been issued?
 Yes (If yes, attach a copy of the Violation and answer the following.) No

Violation issued by:
 Local Building Department
 State Fire and Building Code Enforcement Section
 Local Fire Department

7. DESCRIPTION OF REQUESTED VARIANCE

Name of code or standard and edition involved Indiana Building Code 2014	Specific code section 903.2.8, 675-IAC-12-6-3(a), 675-IAC-12-6-7(g) (17)-675-IAC-13-1-8 (NFPA 13)
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Nature of non-compliance (Include a description of spaces, equipment, etc. involved as necessary.)
The automatic sprinkler system code cannot be satisfied due to location of camp relative to correctly sized water main. The nearest water main to the cabins is more than 2 miles away according to the local water department. There are no current plans for water upgrades to this water system in this area.

8. DEMONSTRATION THAT PUBLIC HEALTH, SAFETY, AND WELFARE WILL BE PROTECTED

Select one of the following statements:

- Non-compliance with the rule will not be adverse to the public health, safety or welfare; or
- Applicant will undertake alternative actions in lieu of compliance with the rule to ensure that granting of the variance will not be adverse to public health, safety, or welfare. Explain why alternative actions would be adequate (be specific).

Facts demonstrating that the above selected statement is true:

Summer camp cabins are only used for 8 weeks (40 total camp days) out of the year, during the summer season.
Cabins have an additional egress exit door beyond what is required by the current building codes.
An additional fire extinguisher is being installed in bunk rooms than is required by section 906.1.
A fire escape plan will be posted on the wall in each cabin.

9. DEMONSTRATION OF UNDUE HARDSHIP OR HISTORICALLY SIGNIFICANT STRUCTURE

Select at least one of the following statements:

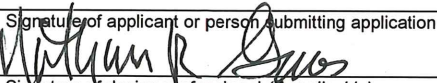

- Imposition of the rule would result in an undue hardship (unusual difficulty) because of physical limitations of the construction site or its utility services.
- Imposition of the rule would result in an undue hardship (unusual difficulty) because of major operational problems in the use of the building or structure.
- Imposition of the rule would result in an undue hardship (unusual difficulty) because of excessive costs of additional or altered construction elements.
- Imposition of the rule would prevent the preservation of an architecturally or a historically significant part of the building or structure.

Facts demonstrating that the above selected statement is true:

See attached engineering cost estimate for water main extension to provide the required water volume and pressure for installation of automatic sprinkler systems to cabins.


10. STATEMENT OF ACCURACY

I hereby certify under penalty of perjury that the information contained in this application is accurate.

Signature of applicant or person submitting application 	Please print name NATHAN R. GRIMES	Date of signature (month, day, year) 11/13/2018
Signature of design professional (if applicable) 	Please print name ISAIAH WEILBAKER	Date of signature (month, day, year) 11/13/2018

11. STATEMENT OF AWARENESS (If the application is submitted on the applicant's behalf, the applicant must sign the following statement.)

I hereby certify under penalty of perjury that I am aware of this request for variance and that this application is being submitted on my behalf.

Signature of applicant 	Please print name RANDY WEILBAKER	Date of signature (month, day, year) 11/12/2018
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ELECTRONICALLY FILE YOUR PROJECT WITH STATE OF INDIANA at <http://www.in.gov/dhs/2650.htm>.

This on-line filing is through a secure site, you can use it to submit your project information, pay the fees and upload your project plans. Use Internet Browser to View this report, other browsers are not compatible to view this report

**CONSTRUCTION DESIGN RELEASE**

State Form 41191 (R9/5-98)

Report Printed on: November 12, 2018



Available At Your Local Licence Branch

Project number

Release date

403225

10/04/18

Construction type

Occupancy classification

V-B, SPK

R-1

Scope of release

ARCH ELEC FDN MECH

PLUM STR

Type of release

Standard

Project name

SPRING MILL BIBLE CAMP

Street address

2830 SR 60 E

City

MITCHELL

County

LAWRENCE

To: Owner / Architect / Engineer

SUPPORT HOOSIER SAFETY

Isaiah Adam Weilbaker PE11400157

4609 BRUSH COLLEGE RD

FLOYDS KNOBS IN 46204

Fax & e-mail: 8122484320, rweilbaker@gmail.com

The plans, specifications and application submitted for the above referenced project have been reviewed for compliance with the applicable rules of the Fire Prevention and Building Safety Commission. The project is released for construction subject to, but not necessarily limited to, the conditions listed below. THIS IS NOT A BUILDING PERMIT. All required local permits and licenses must be obtained prior to beginning construction work. All construction work must be in full compliance with all applicable State rules. Any changes in the released plans and/or specifications must be filed with and released by this Office before any work is altered. This release may be suspended or revoked if it is determined to be issued in error, in violation of any rules of the Commission or if it is based on incorrect or insufficient information. This release shall expire by limitation, and become null and void, if the work authorized is not commenced within one (1) year from the above date.

CONDITIONS:

Note :(A1A & A1B): In accordance with the affidavit sworn under penalties of perjury in the application for construction design release the plans and specifications filed in conjunction with this project shall comply with all of the applicable rules and laws of Fire Prevention and Building Safety Commission. Providing false information constitutes an act of perjury, which is a Class D felony punishable by a prison term and a fine up to \$10,000. In accordance with Section 19 of the General Administrative Rules (675 IAC 12-6-19) a complete set of plans and specifications that conform exactly to the design that was released by the office of the state building commissioner shall be maintained on the construction jobsite as well as a copy of the design release.

14B This project has been reviewed under the 2014 Indiana Building Code.

4G0603AE Detailed plans and specifications of the fire suppression system shall be filed with the required application and appropriate fees in accordance with 675 IAC 12-6-3(a), 675 IAC 12-6-7(g)(17), and 675 IAC 13-1-8. (N.F.P.A. 13)

AREL Pursuant to 675 IAC 12-6-21, the issuance of a design release does not relieve the owner from compliance with all applicable rules of the commission, even if items contrary to those rules appear in the plans and specifications that have been filed with the division. The owner is responsible for correcting any and all areas of noncompliance even if they are discovered subsequent to the issuing of this design release.

Please be advised that if an administrative review of this action is desired, a written petition for review must be filed at the above address with the Fire Prevention and Building Safety Commission identifying the matter for which a review is sought no later than eighteen (18) days from the above - stated date, unless the eighteenth day falls on a Saturday, a Sunday, a legal holiday under State statute, or a day in which the Department of Fire and Building Services is closed during normal business hours. In the latter case, the filing deadline will be the first working day thereafter. If you choose to petition, and the before-mentioned procedures are followed, your petition for review will be granted, and an administrative proceeding will be conducted by an administrative law judge of the Fire Prevention and Building Safety Commission. If a petition for review is not filed, this Order will be final, and you must comply with its requirements.

Code review official DEL SCHROEDER

Director, Division of Fire and Building Safety

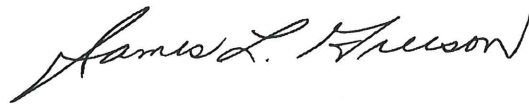
dschroeder@dhs.in.gov

Address (name, title of local official, street, city, state and ZIP code)

CODE OFFICIAL

AARON BLAZIER

312 W WASHINGTON STREET
RM E241
INDIANAPOLIS, IN 46204
Fax & e-mail: 3172330307, ablazier@dhs.in.gov





RENAISSANCE DESIGN BUILD, INC.

INDIANA OFFICES
117 S Indiana Avenue
Sellersburg, IN 47172
Tel: 812-246-5897
Fax: 812-248-4320

rdbi@sbcglobal.net

KENTUCKY OFFICES
1012 S. Fourth Street
Louisville, KY 40203
Tel: 502-424-8373
Fax: 502-587-0931

www.renaissancedesignbuild.com



SPRING MILL BIBLE CAMP WATER MAIN EXTENSION

ENGINEERING CONSTRUCTION COST ESTIMATE

8" Water Main	11,800LF (\$15/lf)	=	\$177,000
Road Pavement Patching	20CY (\$150/CY)	=	3,000
D/W Pavement Patching	220CY (\$150CY)	=	33,000
Fire Hydrants	20(\$2,000EA)	=	40,000
8" Water Valve	28(\$1,000EA)	=	128,000
Seed & Mulch	13,000SY(\$3/SY)	=	39,000
Cabin Sprinkler Cost	2,882(45/SF)	=	15,000
Rock Excavation	1 Lump Sum(\$25,000)	=	25,000
			<hr/>
			\$360,000

SPRING MILL BIBLE CAMP

2830 STATE ROAD 60 EAST | MITCHELL, INDIANA 46204 | LAWRENCE COUNTY

NEW BOYS AND GIRLS CABIN NO.1

1 2 3 4 5 6 7 8 9 10



MARK	DESCRIPTION	DATE

DATE	DESCRIPTION
SEPTEMBER 2018	DESIGNED BY: L.W. BARNER
	DESIGNED BY: B. SVAYOR
	DESIGNED BY: M. KENNER
	DESIGNED BY: M. KENNER
	DESIGNED BY: M. KENNER
	DESIGNED BY: M. KENNER



COVER SHEET
 SPRING MILL BIBLE CAMP
 NEW GIRLS AND BOYS CABIN NO. 1
 MITCHELL, INDIANA 46204

SHEET ID
G1001

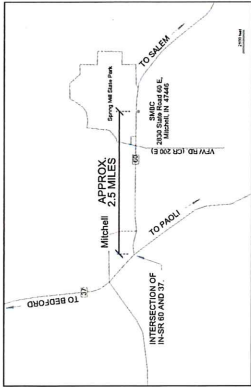
BUILDING CODE INFORMATION

BUILDING CODE = 2010 RCW / INDIANA AMENDMENTS
 BUILDING USE = SUMMER CAMP CABIN
 OCCUPANCY GROUP = R-1
 BUILDING TYPE / CATEGORY = S-5
 BUILDING AREA = 1147 SF / CABIN (7000 SF ALLOWABLE)
 NUMBER OF CABINS = 1
 NUMBER OF STORIES = 1 (6 STORIES ALLOWABLE)
 NUMBER OF STORIES PROVIDED = 1
 AUTOMATIC FIRE ALARM SYSTEM = PROVIDED
 AUTOMATIC FIRE ALARM SYSTEM = NONE
 OCCUPANCY / CABIN = 24
 NUMBER OF EXITS PROVIDED = 2
 NUMBER OF EXITS PROVIDED = 3

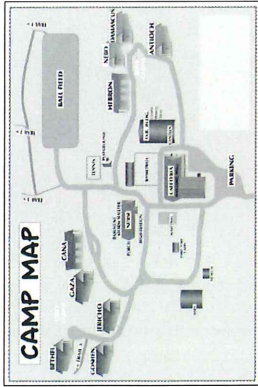
DESIGN LOAD INFORMATION

ROOF LIVE LOAD = 20 PSF
 ROOF DEAD LOAD = 10 PSF
 FLOOR LIVE LOAD = 30 PSF
 FLOOR DEAD LOAD = 10 PSF
 WIND SPEED WITH BASIC DIRECTION = 115 MPH
 RISK CAT. 2, S_w = 0.245s, S_s = 0.115g, S_{ds} = 0.259g, S_{ds} = 0.179g
 SOIL BEARING CAPACITY = 1500 PSF (ASSUMED)

SHEET	INDEX OF SHEETS	DESCRIPTION
CS001	COVERS SHEET	COVERS SHEET
CS101	OVERALL SITE PLAN	OVERALL SITE PLAN
CS102	SITE PLAN BOYS CABIN	SITE PLAN BOYS CABIN
CS103	SITE PLAN GIRLS CABIN	SITE PLAN GIRLS CABIN
CS201	SEPTIC SYSTEM DETAILS	SEPTIC SYSTEM DETAILS
CS202	ABSORPTION FIELD DETAILS (SHEET 1 OF 2)	ABSORPTION FIELD DETAILS (SHEET 1 OF 2)
CS203	ABSORPTION FIELD DETAILS (SHEET 2 OF 2)	ABSORPTION FIELD DETAILS (SHEET 2 OF 2)
CS204	PRESSURIZED FIELD DETAILS (SHEET 1 OF 2)	PRESSURIZED FIELD DETAILS (SHEET 1 OF 2)
CS205	PRESSURIZED FIELD DETAILS (SHEET 2 OF 2)	PRESSURIZED FIELD DETAILS (SHEET 2 OF 2)
CS301	SANITARY SEWER PROFILES	SANITARY SEWER PROFILES
LS101	LIFE SAFETY PLAN	LIFE SAFETY PLAN
AD201	ACCESSIBILITY STANDARDS	ACCESSIBILITY STANDARDS
FP101	CABIN FLOOR PLAN	CABIN FLOOR PLAN
FP102	CABIN FOUNDATION PLAN	CABIN FOUNDATION PLAN
FR101	FRAMING DETAILS (SHEET 1 OF 2)	FRAMING DETAILS (SHEET 1 OF 2)
FR102	FRAMING DETAILS (SHEET 2 OF 2)	FRAMING DETAILS (SHEET 2 OF 2)
S-501	FOUNDATION DETAILS (SHEET 1 OF 2)	FOUNDATION DETAILS (SHEET 1 OF 2)
S-502	FOUNDATION DETAILS (SHEET 2 OF 2)	FOUNDATION DETAILS (SHEET 2 OF 2)
MP101	MECHANICAL PLAN	MECHANICAL PLAN
EP101	ELECTRICAL PLAN	ELECTRICAL PLAN
PP101	PLUMBING PLAN	PLUMBING PLAN



VICINITY MAP



CAMP MAP VIEWED FROM CAMP ENTRANCE

UTILITY PROVIDERS:
 LAWRENCE COUNTY R-5/C
 7013 N. 35TH ST.
 MITCHELL, IN 46204
 (931) 412-3662-2229
 SOUTH LAWRENCE WATER
 1000 S. 20TH ST.
 MITCHELL, IN 46204
 (931) 412-3488-3544
 VERIZON PHONY
 (931) 412-3488





MARK	DESCRIPTION	APPR	DATE

ISSUE DATE	SEPTEMBER 2018
DESIGNED BY	L. VERAHREN
DRAWN BY	B. SALTER
CHECKED BY	N.A.
CONTRACT NO.	N.A.
DRAWING CODE	SMBC - 1 - 2018
ANSI D	
SIZE	



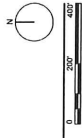
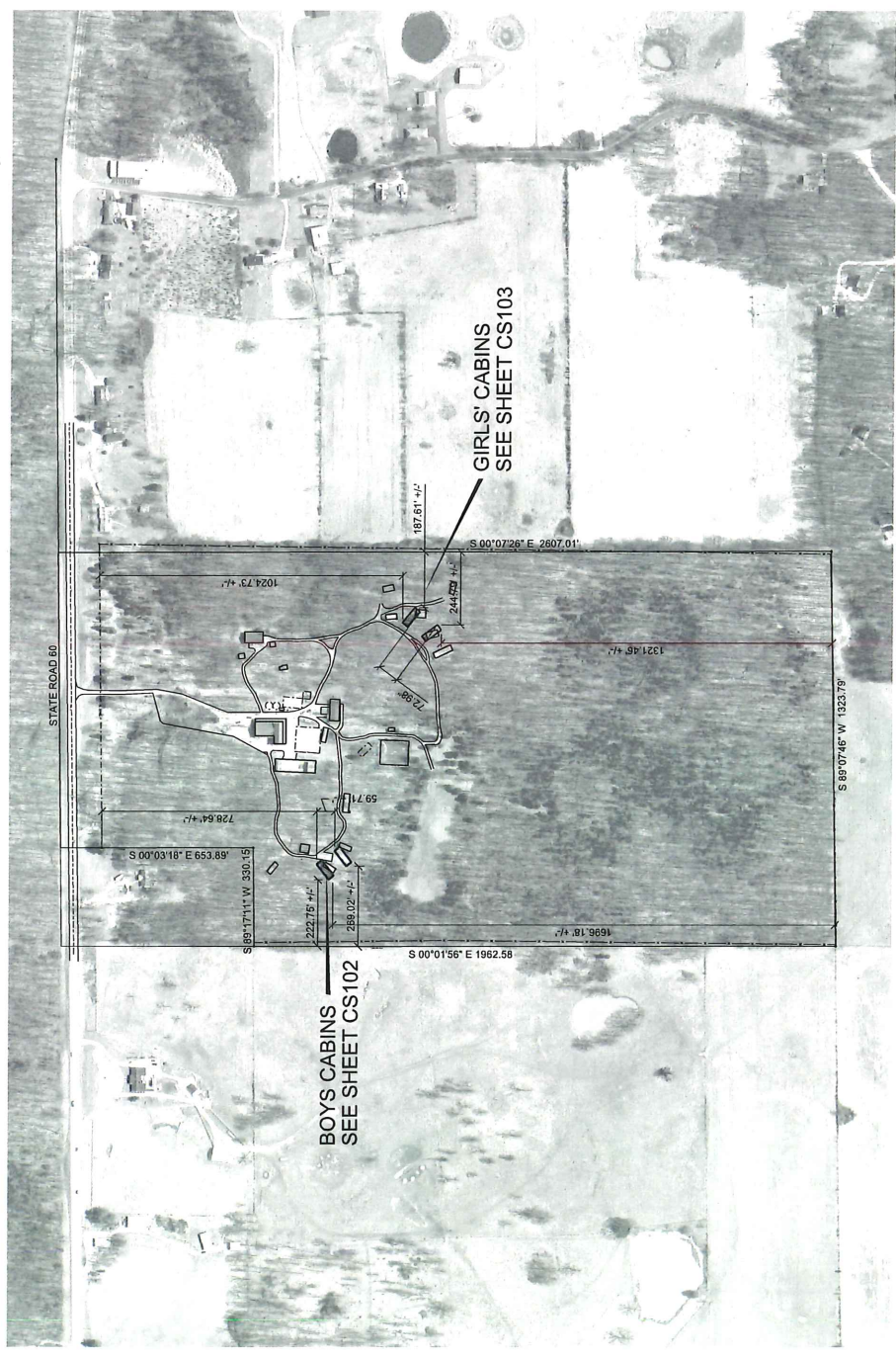
OVERALL SITE PLAN
 NEW GIRLS AND BOYS CABIN NO. 1
 2630 STATE ROAD 80 EAST
 MITCHELL, INDIANA 46341

SHEET ID
CS101

GENERAL SHEET NOTES

1. CONTRACTOR SHALL COORDINATE ALL TEMPORARY AND PERMANENT UTILITY SHUT-DOWNS, RELOCATIONS, AND NEW CONNECTIONS TO ACCOMMODATE NEW CABIN.
2. CLEARING AND GRUBBING IS REQUIRED TO PREPARE SITES FOR CONSTRUCTION. CONTRACTOR SHALL MAKE EFFORT TO PRESERVE AS MANY MATURE TREES AS PRACTICAL.
3. SEE SHEET CS102 FOR DETAILED SITE PLAN OF THE BOYS SIDE.
4. SEE SHEET CS103 FOR DETAILED SITE PLAN OF THE GIRLS SIDE.
5. SEE SHEET FP101 FOR TYPICAL CABIN FLOOR PLAN.

10
9
8
7
6
5
4
3
2
1



A1 OVERALL SITE PLAN
 1"=200'

MARK	DESCRIPTION	APPR	DATE

ISSUE DATE	DESIGNED BY	CHECKED BY	DATE
SEPTEMBER 2018	L. WELBORN	L. WELBORN	

CONTRACT NO.	PROJECT NO.	DATE

DESIGNED BY: L. WELBORN
 CHECKED BY: L. WELBORN
 DATE: SEPTEMBER 2018
 CONTRACT NO.:
 PROJECT NO.:
 DATE:



SITE PLAN - BOYS CABINS
 NEW GIRLS AND BOYS CABIN NO. 1
 2635 EAST ROAD 69 EAST
 MITCHELL, INDIANA 46254

SHEET ID
CS102

GENERAL SHEET NOTES

- SITE IS NOT LOCATED IN A FLOODPLAIN.
- ALL CONSTRUCTION IS LOCATED ON SMBC PROPERTY.
- NO EASEMENTS REQUIRED OR EXIST.
- ALL EXISTING AND PROPOSED SMBC FACILITIES ARE CONNECTED TO PUBLIC WATER SUPPLY.
- NO STORMWATER MANAGEMENT FACILITIES, GEOTHERMAL WELLS, FIELD TILES, OR CEMETERIES EXIST ON-SITE OR ARE ADJACENT TO THE SITE.
- THE LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND BASED UPON EVIDENCE OBSERVED AT GROUND SURFACE. ALL UTILITIES SHALL BE LOCATED AND DEPTH LOCATE ALL UTILITIES PRIOR TO ANY WORK.
- EXISTING TOPOGRAPHY IS BASED UPON FIELD SURVEY AND IS SUFFICIENT TO DESIGN AND CONSTRUCT THE SANITARY SEWER, LEADERS, AND SANITARY MANHOLE AT THE SITE. THE VERTICAL DATUM IS RELATIVE TO THE SITE.
- ALL DIMENSIONS ARE IN U.S. SURVEY FEET.
- SOIL TESTING BY J. BROWN, IRSS #116 ON 5/31/2018.
- THE MAXIMUM PEAK WASTEWATER FLOW FOR THIS OSS SYSTEM IS 1200 GPD. 800 GPD/CABIN.
- SEE TABLES ABOVE FOR SEWER PIPE DATA: MATERIAL TYPE, MIN. SLOPE, AND ELEVATION DATA.
- SEE SHEETS CS501-CSS04 FOR SEPTIC SYSTEM DETAILS.
- SEE SHEET CS201 FOR SANITARY SEWER PROFILE.

SHEET KEYNOTES

- NOT USED.
- CONSTRUCT NEW BOYS CABIN NO. 1. SEE SHEET FP101.
- REMOVE EXISTING BOYS CABIN (DAMASCUS).
- INSTALL NEW PRESBY ASES 30" LONG COMBINATION SERIAL SUBSURFACE SAND AND NEED SEPTIC SYSTEM. 1,200 GPD MAX. IN-SLR = 0.30 GPD/DF. L = 72, W = 37.5, (6) X 100 LF EA ASES PIPES
- 4" PVC WYE CLEANOUT TO FIN. GR. (1) 6" W/ THREADED CAP.
- 4" SDR 26 PVC BLDG SEWER.
- 1250 GAL. PRECAST CONCRETE SEPTIC TANK.
- 4" SDR 26 PVC EFFLUENT SEWER.
- 4" PVC STUB OUT AND CAP FOR FUTURE BOYS CABIN NO. 2 SANITARY CONNECTION.
- 6" SDR 26 EFFLUENT SEWER.
- NO. 7 PRECAST DISTRIBUTION BOX.
- GRASSSED SWALE @ 0.20% SL.
- 1 1/4" SDR 7 POLY POTABLE WATER LINE WITH NSF SEAL RATED 160 PSI, 36" DP.
- 4" PVC LOW VENT.
- 4" PVC LEADER PIPE WITH 2" MIN. DROP TO PRESBY INLET.
- UNDISTURBED DISPERSAL AREA (MINIMUM).
- FUTURE WORK.

LEGEND

- REMOVE
- DEMOLISH
- SOIL TEST PIT
- SPOT ELEVATION
- EXISTING UG ELECTRIC
- EXISTING WATER
- EXISTING SANITARY SEWER
- NEW WATER LINE
- NEW SANITARY SEWER
- CLEAN-OUT
- UTILITY POLE
- LP
- LIGHT POLE

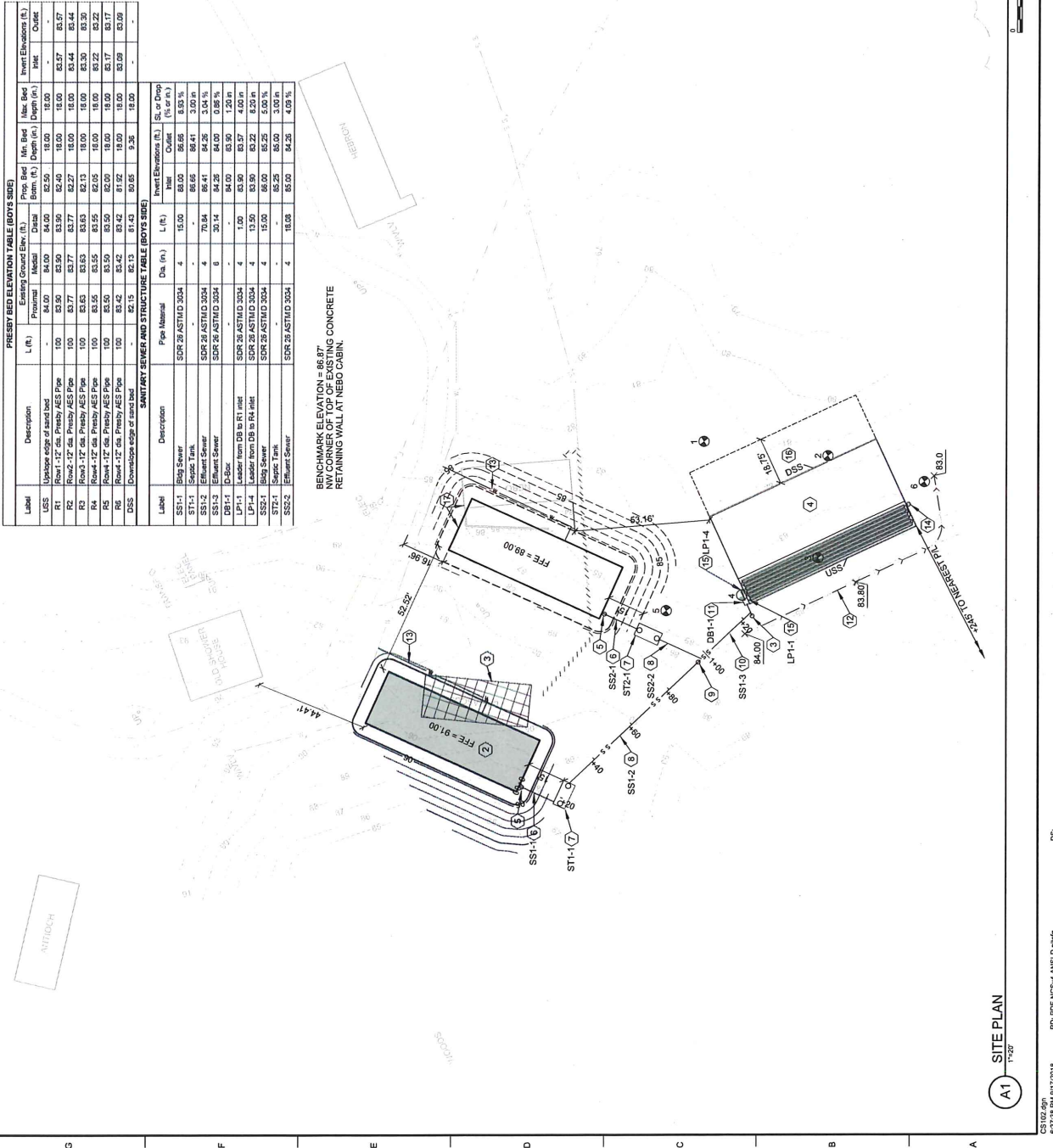
PRESBY FED ELEVATION TABLE (BOYS SIDE)

Label	Description	Existing Ground Elev. (ft.)	Prop. Bed Elev. (ft.)	Min. Bed Elev. (ft.)	Max. Bed Elev. (ft.)	Invert Elevations (ft.)
US5	Upslope edge of sand bed	84.00	84.00	82.50	11.00	11.00
R1	Round-12" dia. Presby ASES Pipe	83.00	83.00	82.50	11.00	82.57
R2	Round-12" dia. Presby ASES Pipe	83.71	83.71	82.50	11.00	82.57
R3	Round-12" dia. Presby ASES Pipe	83.63	83.63	82.50	11.00	82.57
R4	Round-12" dia. Presby ASES Pipe	83.55	83.55	82.50	11.00	82.57
R5	Round-12" dia. Presby ASES Pipe	83.50	83.50	82.00	11.00	82.22
R6	Round-12" dia. Presby ASES Pipe	83.42	83.42	81.92	11.00	83.17
DSS	Downslope edge of sand bed	82.15	82.15	81.43	50.65	83.09

SANITARY SEWER AND STRUCTURE TABLE (BOYS SIDE)

Label	Description	Pipe Material	Di. (in)	L (ft)	Invert Elevations (ft.)	Sl. or Drop (ft/ft)
SS1-1	Sanitary Sewer	SDR 26 ASTM D 3034	4	15.00	82.57	3.05%
SS1-2	Sanitary Sewer	SDR 26 ASTM D 3034	4	70.84	84.26	3.14%
SS1-3	Sanitary Sewer	SDR 26 ASTM D 3034	6	20.14	84.26	0.98%
DB1-1	D-Box				84.00	1.20 ft
LP1-1	Leader from DB to R1 inlet	SDR 26 ASTM D 3034	4	1.00	83.90	83.57
LP1-4	Leader from DB to R4 inlet	SDR 26 ASTM D 3034	4	15.00	83.90	83.22
SS2-1	Sanitary Sewer	SDR 26 ASTM D 3034	4	15.00	82.25	5.20%
SS2-2	Sanitary Sewer	SDR 26 ASTM D 3034	4	11.00	82.25	3.00%
SS2-3	Sanitary Sewer	SDR 26 ASTM D 3034	4	11.00	82.25	4.09%

BENCHMARK ELEVATION = 86.87 FT
 CONCRETE
 RETAINING WALL AT NEED CABIN.



A1 SITE PLAN
 1"=20'



DATE	APPR.	DESCRIPTION

ISSUE DATE	REVISION NO.	DESCRIPTION



SITE PLAN - GIRLS CABINS
 2430 STATE ROAD 60 EAST
 MITCHELL, INDIANA 46034
 NEW GIRLS AND BOYS CABIN NO. 1
 NEW GIRLS AND BOYS CABIN NO. 2

SHEET ID
CS103

GENERAL SHEET NOTES

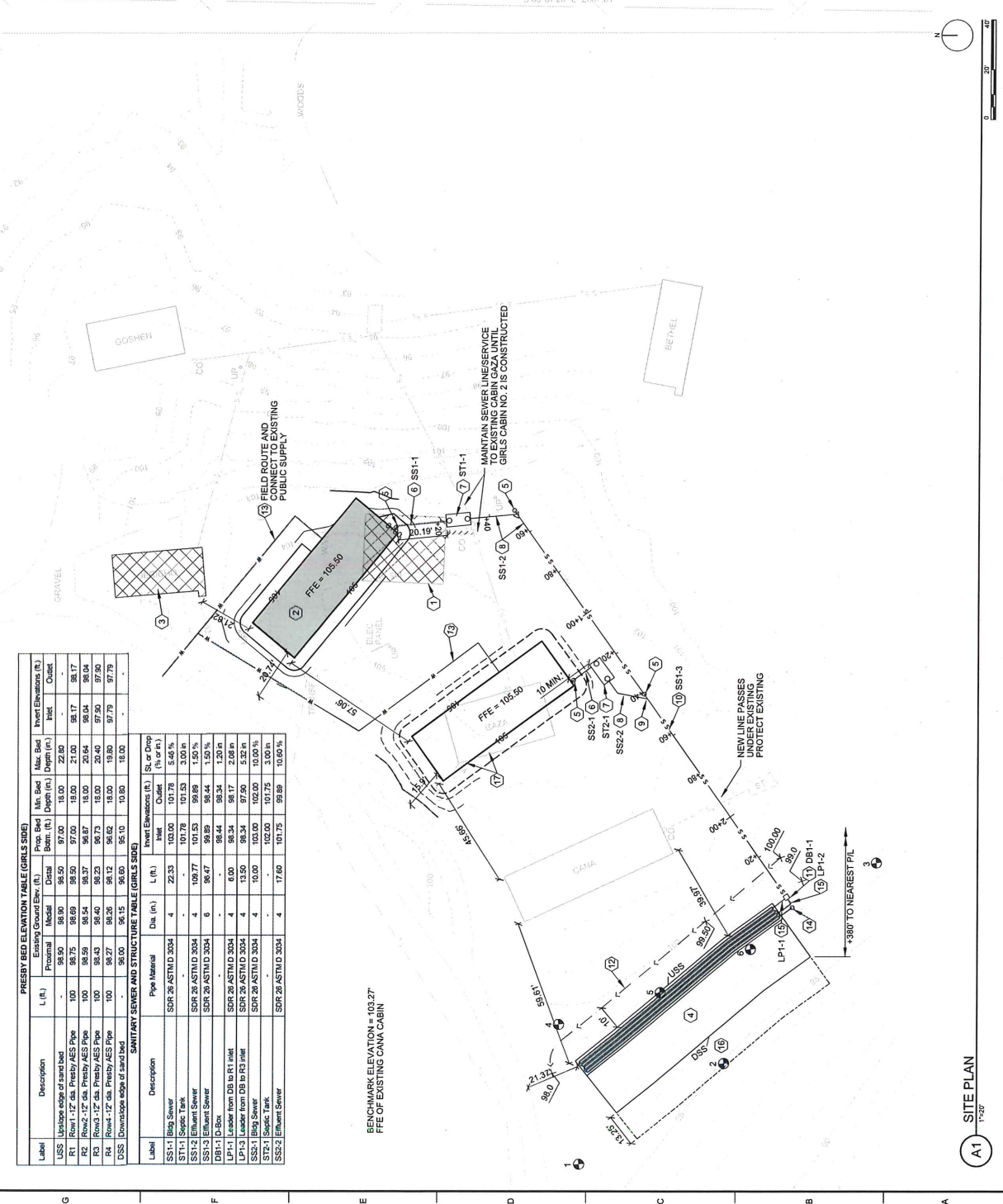
- SITE IS NOT LOCATED IN A FLOODPLAIN.
- ALL CONSTRUCTION IS LOCATED ON SMBC PROPERTY.
- NO EASEMENTS REQUIRED OR EXIST.
- ALL EXISTING AND PROPOSED SMBC FACILITIES ARE CONNECTED TO PUBLIC WATER SUPPLY.
- NO STORMWATER MANAGEMENT FACILITIES, GEOTHERMAL WELLS, FIELD TILES, OR CEMETERIES EXIST ON-SITE OR ARE ADJACENT TO THE SITE.
- THE LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND BASED UPON EVIDENCE OBSERVED AT GROUND LEVEL AND VERBAL REPORTS. CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO ANY WORK.
- EXISTING TOPOGRAPHY IS BASED UPON FIELD RUN LEVEL AND VERBAL REPORTS. CONTRACTOR SHALL VERIFY ALL ELEVATIONS PRIOR TO CONSTRUCTION AND IS SUFFICIENT TO DESIGN AND CONSTRUCT THE OSS SYSTEM. CONTOURS SHOWN ARE AT 1-FOOT INTERVALS. THE VERTICAL DATUM IS RELATIVE TO THE SITE.
- ALL DIMENSIONS ARE IN U.S. SURVEY FEET.
- SOIL TESTING BY J. BROWN, IRSS #116 ON 5/31/2018.
- THE MAXIMUM PEAK WASTEWATER FLOW FOR THIS OSS SYSTEM IS 1200 GPD. 800 GPD/CABIN.
- SEE TABLES ABOVE FOR SEWER PIPE DATA: MATERIAL TYPE, MIN. SLOPE, AND ELEVATION DATA.
- SEE SHEETS CS001-CS004 FOR SEPTIC SYSTEM DETAILS.
- SEE SHEET CS201 FOR SANITARY SEWER PROFILE.

SHEET KEYNOTES

- REMOVE ABANDONED BLOCK BUILDING.
- CONSTRUCT NEW GIRLS CABIN NO. 1. SEE SHEET FP101.
- REMOVE EXISTING GIRLS CABIN (JERICHO).
- INSTALL NEW PRESBYTERIAN SLOPING COMBINATION SERIAL SANITARY SYSTEM.
 L = 102' W = 26.5' (4) X 100 LF EA AES PIPES
- 4" PVC WYE CLEANOUT TO FIN. GR. (+) 6" W/ THREADED CAP.
- 4" SDR 26 PVC BLDG SEWER.
- 1250 GAL. PRECAST CONCRETE SEPTIC TANK.
- 4" SDR 26 PVC EFFLUENT SEWER.
- 4" PVC STUB OUT AND CAP FOR FUTURE GIRLS CABIN NO. 2 SANITARY CONNECTION.
- NO. 7 PRECAST DISTRIBUTION BOX.
- GRASSSED SWALE @ 0.20% SL.
- 1.1/4" SDR 7 POLY POTABLE WATER LINE WITH NSF SEAL RATED 160 PSI, 3/8" DP.
- 4" PVC LOW VENT.
- 4" PVC LEADER PIPE WITH 2" MIN. DROP TO PRESBY INLET.
- UNDISTURBED DISPERSAL AREA (MINIMUM).
- FUTURE WORK.

LEGEND

- REMOVE
- DEMOLISH
- SOIL TEST PIT
- SPOT ELEVATION
- EXISTING UG ELECTRIC
- EXISTING WATER
- EXISTING SANITARY SEWER
- NEW WATER LINE
- NEW SANITARY SEWER
- CO CLEAN-OUT
- LP UTILITY POLE
- LP LIGHT POLE



PRESBYTERIAN ELEVATION TABLE (GIRLS SIDE)

Label	Description	L (ft.)	Existing Ground Elev. (ft.)	Prop. Bed Bottom (ft.)	Min. Bed Depth (ft.)	Max. Bed Depth (ft.)	Invert Elevations (ft.)
USS	Upslope edge of sand bed	-	98.90	98.50	15.00	22.80	Inlet 98.17, Outlet 98.17
R1	Row 1 1.2" dia. Presby AES Pipe	100	98.75	98.00	15.00	21.00	98.17
R2	Row 2 1.2" dia. Presby AES Pipe	100	98.59	98.37	15.00	20.64	98.04
R3	Row 3 1.2" dia. Presby AES Pipe	100	98.43	98.23	15.00	20.40	97.90
R4	Row 4 1.2" dia. Presby AES Pipe	100	98.27	98.06	15.00	19.90	97.73
DSS	Downslope edge of sand bed	00	98.10	98.10	10.00	18.10	-

SANITARY SEWER AND STRUCTURE TABLE (GIRLS SIDE)

Label	Description	Pipe Material	Dia. (in.)	L (ft.)	Invert Elevations (ft.)	Rt. or Drop (ft. or ft.)	
SS1-1	Blkg Sewer	SDR 26 ASTM D 3034	4	22.33	103.00	101.78	5.45%
ST1-1	Septic Tank	-	-	-	101.78	101.53	3.00 ft.
SS1-2	Effluent Sewer	SDR 26 ASTM D 3034	4	109.77	101.53	99.89	1.50%
SS1-3	Effluent Sewer	SDR 26 ASTM D 3034	6	96.47	99.89	98.44	1.50%
DB1-1	D-Box	-	-	-	98.44	98.34	1.20 ft.
LP-1	Leader from DB to R1 Inlet	SDR 26 ASTM D 3034	4	0.00	98.34	97.90	2.09 ft.
LP-2	Leader from DB to R3 Inlet	SDR 26 ASTM D 3034	4	13.50	98.34	97.90	10.00%
SS2-1	Blkg Sewer	SDR 26 ASTM D 3034	4	10.00	102.00	101.93	0.00%
SS2-2	Blkg Sewer	SDR 26 ASTM D 3034	4	17.40	101.75	99.89	10.60%

BENCHMARK ELEVATION = 103.27
 FFE OF EXISTING CANA CABIN

A1
 SITE PLAN
 1"=50'

10 9 8 7 6 5 4 3 2 1

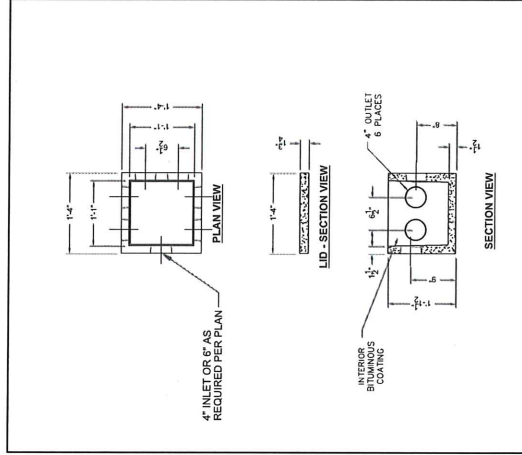


MARK	DESCRIPTION	APPR.	DATE

ISSUE DATE	SEPTEMBER 2018
DESIGNED BY	DR. J. SAVON
DRAWN BY	DR. J. SAVON
CHECKED BY	DR. J. SAVON
CONTRACT NO.	
DRAWING CODE	
SUBMITTED BY	
APPROVED BY	
SCALE	AS SHOWN
PROJECT	
DATE	

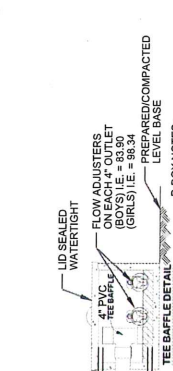
SEPTIC SYSTEM DETAILS
 MITCHELL, INDIANA 46281
 NEW 240 STATE ROAD 60 EAST
 NEW 240 STATE ROAD 60 EAST
 SPRING MILL BIBLE CAMP

SHEET ID
CS501



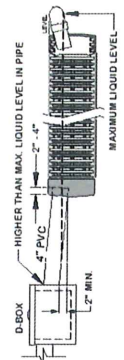
S & M PRECAST, INC.	WEIGHT: BASE 100#, LID 35#
NIPCA CERTIFIED PLANT	DISTRIBUTION BOX
CONCRETE 4000 PSI 8" MIN. COVER	#7
CONCRETE 4000 PSI 8" MIN. COVER	INDIANA
CONCRETE 4000 PSI 8" MIN. COVER	DATE: 2-2-17 DWG: 22-04-001

PRE-CASTER'S TECH SHEET

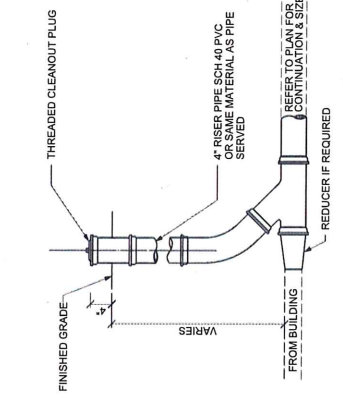


- D-BOX NOTES:**
1. ALL LIDS, JOINTS, AND CONNECTIONS SHALL BE SEALED WATERTIGHT.
 2. PROVIDE 12" COVER OVER TOP OF D-BOX.
 3. SET D-BOX LEVEL.
 4. D-BOX SHALL BE PROVIDED BY SAME SUPPLIER AS PRECAST SEPTIC TANK.

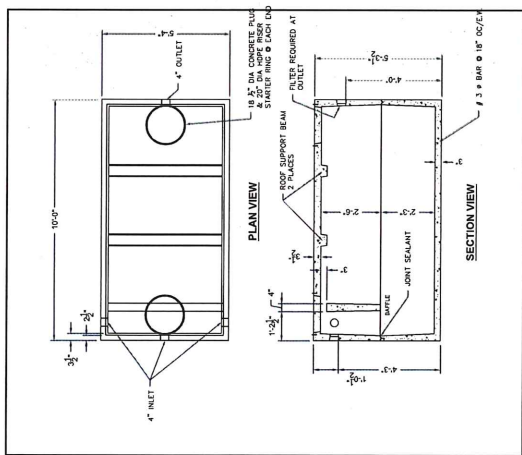
SECTION



MIN. DROP TO PRESBY INLET

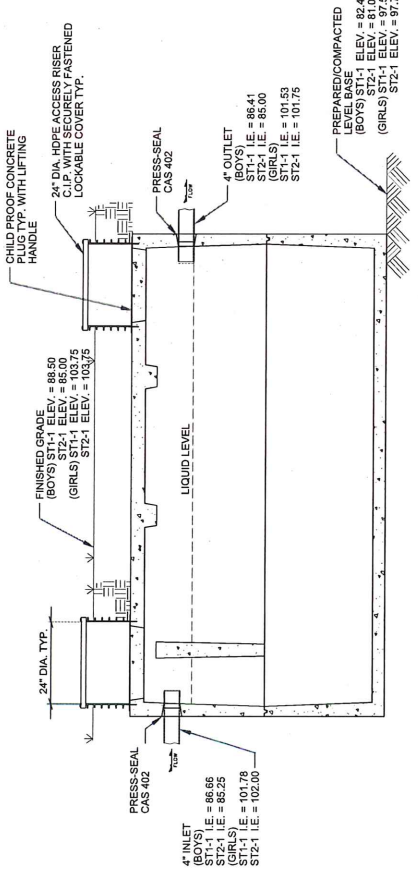


A1 CLEAN-OUT DETAIL



S & M PRECAST, INC.	WEIGHT: 24,000#
NIPCA CERTIFIED PLANT	SEPTIC TANK
CONCRETE 4000 PSI 8" MIN. COVER	1250 GALLON
CONCRETE 4000 PSI 8" MIN. COVER	INDIANA
CONCRETE 4000 PSI 8" MIN. COVER	DATE: 3-1-17 DWG: 22-04-020

PRE-CASTER'S TECH SHEET



SECTION VIEW

- S.T. NOTES:**
1. ALL LIDS, JOINTS AND CONNECTIONS SHALL BE SEALED WATERTIGHT.
 2. SET TANK LEVEL.
 3. SEPTIC TANK SHALL BE IN ACCORDANCE WITH ISDH PRE-APPROVED LIST.

A1 1250 GAL. SEPTIC TANK DETAILS

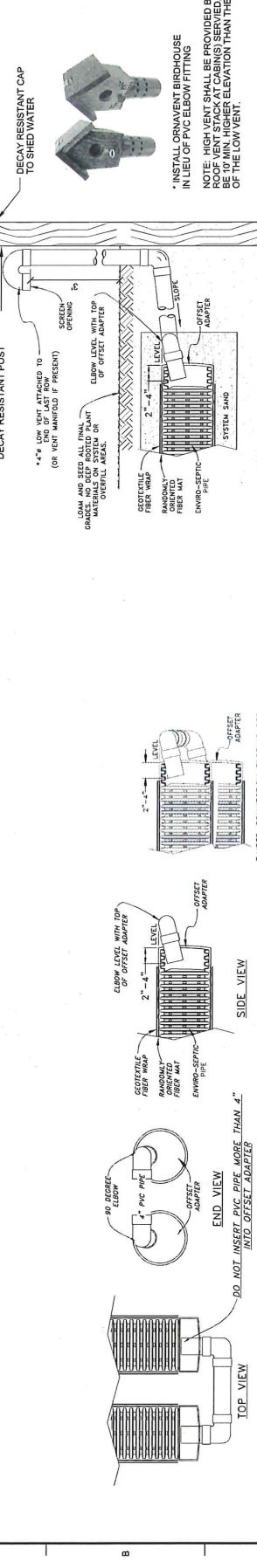
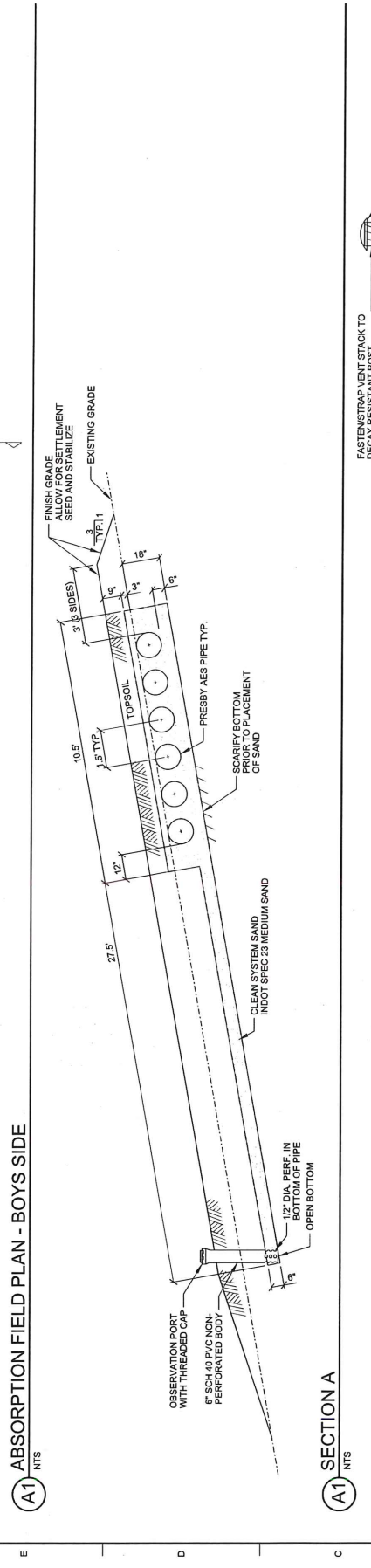
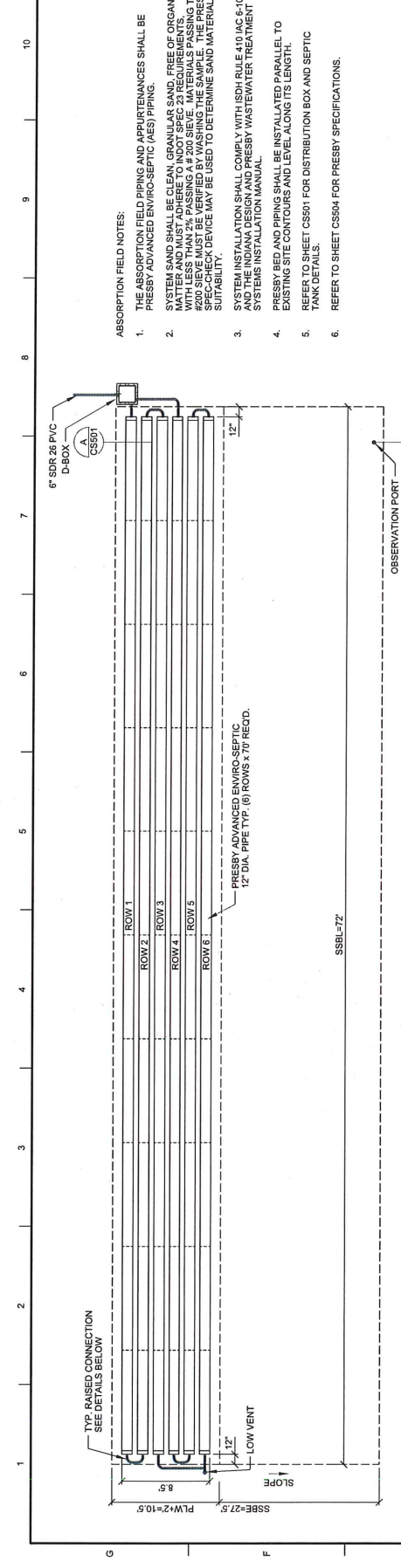
C1 DISTRIBUTION BOX DETAILS

MARK	DESCRIPTION	DATE

ISSUE DATE	ISSUE BY	ISSUE DESCRIPTION

DESIGNED BY: J. B. ...
 CHECKED BY: ...
 DRAWING CODE: ...
 CONTRACT NO.: ...
 SHEET NO.: ...
 SHEET 2 OF 2

SHEET ID
CS502



- ABSORPTION FIELD NOTES:
1. THE ABSORPTION FIELD PIPING AND APPURTENANCES SHALL BE PRESBY/ADVANCED ENVIRO-SEPTIC (AES) PIPING.
 2. SYSTEM SAND SHALL BE CLEAN GRANULAR SAND, FREE OF ORGANIC MATERIALS, WITH LESS THAN 2% PASSING A # 200 SIEVE. MATERIALS PASSING THE #200 SIEVE MUST BE VERIFIED BY WASHING THE SAMPLE. THE PRESBY SUITABILITY DEVICE MAY BE USED TO DETERMINE SAND MATERIAL SUITABILITY.
 3. SYSTEM INSTALLATION SHALL COMPLY WITH ISH RULE 4110 AC 8-10-1 AND THE INDIANA DESIGN AND PRESBY WASTEWATER TREATMENT SYSTEMS INSTALLATION MANUAL.
 4. PRESBY BED AND PIPING SHALL BE INSTALLED PARALLEL TO EXISTING SITE CONTOURS AND LEVEL ALONG ITS LENGTH.
 5. REFER TO SHEET CS501 FOR DISTRIBUTION BOX AND SEPTIC TANK DETAILS.
 6. REFER TO SHEET CS504 FOR PRESBY SPECIFICATIONS.

PRESBY INSTALLATION AND O&M SPECIFICATIONS
For access to the Indiana Design and Installation Manual, refer to
<http://presbyeco.com/home/utility-pages/state-details/?state=IN&tab=1>

23.0 Installation Requirements, Component Handling and Site Preparation

- 23.1 **Component Handling**
 - a) Keep mud, grease, oil, etc. away from all components.
 - b) Avoid dragging pipe through wet or muddy areas.
 - c) Store pipe on high and dry areas to prevent surface water and soil from entering the pipes or fittings.
 - d) The outer fabric of the Presby Pipe is ultra-violet stabilized; however, this protection breaks down after a period of time in direct sunlight. To prevent damage to the fabric, cover the pipe with an opaque tarp if stored outdoors.
- 23.2 **Critical Remainder Prevent Soil Compaction**
 Do not work on or freeze soils (see Indiana 410 IAC 6-5.3-74(e) for complete instructions and testing criteria). Do not excavate the system area immediately after, during or before precipitation.
- 23.3 **Site Preparation Prior to Excavation**
 - a) Locate and stake out the System Sand bed, extension areas and soil material cover extensions on the site according to the approved plan.
 - b) Install plastic or fabric barriers prior to beginning excavation to protect the system from surface water flows during construction.
 - c) Do not travel across or locate excavation equipment within the portion of the site receiving System Sand.
 - d) Do not stockpile materials or equipment within the portion of the site receiving System Sand.
 - e) It is especially important to avoid using construction equipment down slope of the system to prevent soil compaction.

- 23.4 **When to Excavate**
 Do not work on or freeze soils (see Indiana 410 IAC 6-5.3-74(e) for complete instructions and testing criteria). Do not excavate the system area immediately after, during or before precipitation.
- 23.5 **Tree Stumps**
 - a) If possible, locate the system on the site such that no tree stumps greater than 3" in diameter are located in the system bed or dispersal area.
 - b) Avoid soil disturbance, relocation, or compaction.
 - c) Fill all voids created by unintentional stump or root removal with System Sand.
- 23.5.1 **Enlarged Systems**
 - a) Cut tree stumps 3 inches in diameter and smaller, measured at the ground surface, flush with the ground surface.
 - b) Stumps larger than 3 inches in diameter, measured at the ground surface, and the central root system below ground.
 - c) Use a backhoe or excavator with a mechanical "thumb" or similar extraction equipment, lifting or leveraging stump in a manner that minimizes soil disturbance.
 - d) If possible, do not locate the down slope edge of the system bed directly above tree stumps greater than 3" in diameter.

- 23.5.2 **Subsidence Systems**
 - a) Remove all tree stumps and the central root system below ground.
 - b) Use a backhoe or excavator with a mechanical "thumb" or similar extraction equipment, lifting or leveraging stump in a manner that minimizes soil disturbance.
 - c) Fill all voids created by stump removal with System Sand.
- 23.6 **Organic Material Removal**
 Before filling, remove all grass, leaves, sticks, brush and other organic matter or debris from the excavated system site. Do not remove topsoil for elevated systems. It is not necessary for the soil of the system site to be smooth when the site is prepared.

- 23.7 **Raking and Tilling Procedures**
 All areas receiving System Sand, sand fill and cover material extensions must be raked or filled. If a trench is required, it must be raked or filled. The trench must be filled with System Sand or sand fill (receiving System Sand between the vehicle tracks and the lilled soil of the site. Equipment with tires should be avoided due to heavy wheel compaction or underlying soil structures.
- 23.7.1 **Proper Tilling Procedures**
 - a) If a chisel plow or a bulldozer with a ripper is used, make only one pass parallel to the contour of the site.
 - b) If a moldboard plow is used, it must have at least 2 bottoms and make only one pass parallel to the contour of the site. On slopes greater than 5%, turn the furrows up-slope.
 - c) After filling the site, cut off all roots that protrude above the lilled surface (without compaction of the soil).
 - d) If a plow pan exists not exceeding 12" from the original grade, fill the soil to at least 2" below the bottom of the pan.
 - e) The state or local department of health may require field supervision of tilling operations.

- 23.7.2 **Subsidence Systems**
 - a) For in-ground bed systems, excavate the system bed area to a depth of at least 4 in. below original grade.
 - b) Using an excavator or backhoe, fill the bucket teeth perpendicular to the bed and use the teeth to rake areas 2 in. - 6 in. deep into the bottom of the entire area receiving System Sand or sand fill (receiving System Sand between the vehicle tracks and the lilled soil of the site).
 - c) After filling the site, cut off all roots that protrude above the lilled surface (without compaction of the soil).
 - d) Remove all stumps, organic material, stones larger than 6", and construction debris.
 - e) Add 6 in. of System Sand (measured from the original grade) to the excavated site on the same day the system is excavated and before any precipitation.

- 23.7.3 **Elevated Systems**
 The site for elevated systems shall be prepared in accordance with Indiana 410 IAC 6-5.3-86 and -87, or the equivalent, and shall be prepared in accordance with Indiana 410 IAC 6-5.3-86 and -87, or the equivalent, to a depth of at least 12 inches of System Sand (IN DOT 23 sand) on the prepared surface before placing the Presby Pipes.

- 23.8 **Install System Sand and/or Sand Fill Immediately After Excavation**
 - a) To protect the lilled area (System Sand bed area and System Sand extension area) from damage by precipitation, System Sand should be installed immediately after filling (6 in. for below grade and 12 in. for above grade).
 - b) When installing the System Sand, work off either end or the uphill side of the system to avoid compaction of the soil (see "Critical Remainder" in para. 23.2, page 24).
 - c) The lilled area (System Sand bed area and System Sand extension area) shall be lilled with the lilled soil of the site installing System Sand, keep at least 6 in. of sand between the vehicle tracks and the lilled soil.
 - d) Track construction equipment should not travel over the installed system area until at least 12 in. of cover material is placed over the Presby Pipes.

- 23.9 **Distribution Box Installation**
 To prevent the distribution box from being placed level on compacted soil, sand or pea gravel base, or concrete pad.
- 23.10 **Level Row Tolerances**
 Use a laser level or transit to install rows level. Variations beyond a total of 1 in. (±1/2 in.) may affect system performance and are not acceptable.
- 23.11 **Correct Alignment of Bio-Accelerator®**
 When using Advanced Enviro-Septic® pipe, the Bio-Accelerator® (white geo-textile fabric) is to be positioned centered along the bottom of the pipe rows with the sawn seam up (12 o'clock position). No pipe connections are to be made until the system is installed. The system design must be approved by the system designer without the written approval of the health department that issued the approval and the system's designer.

- 23.12 **Row Spacers**
 System Sand may be used to keep pipe in place while covering, but simple tools may also be constructed for use. The tools are shown below. One is made from rebar, the other from wood. Great stakes may also be used. Caution: Remove all tools used as row spacers before final covering.

Two methods for spacing pipe for backfill.

- 23.13 **Connect Rows Using Raised Connections**
 To prevent the system from sagging and debris pile, use 60° elbows. They enable greater liquid storage capacity and increase the bacterial surfaces being developed. Use raised connections to connect the rows of the Presby System.
- 23.14 **Backfilling Rows**
 - a) Confirm pipe rows are positioned with Bio-Accelerator® along the bottom with the sawn seam up (12 o'clock position) when using Advanced Enviro-Septic® pipe.
 - b) Straddle each row of pipe and walk heel-to-heel its entire length, ensuring that System Sand fills all void spaces beneath the Presby Pipe.
 - c) Finish spacing System Sand to the top of the rows and leave them exposed for inspection purposes.
- 23.15 **Backfilling and Final Grading**
 System Sand to a minimum of 3 in. over the pipe and a minimum of 12 in. beyond the Presby Pipe on all sides. The final grade shall be similar to the soil at the site, without causing compaction. Construction equipment should not travel over the installed system area until at least 12 in. of cover material is placed over the Presby Pipes (H-10 Loading). The system is required for H-20 loading. Vehicular traffic is not allowed on systems in Indiana at this time.

- 23.16 **Grass Soil Cover Method**
 A minimum of 5 inches of stable earth cover (topsoil or loam), with a texture similar to the soil at the site, and capable of sustaining plant growth, must be placed above the installed system (see para. 6.14, page 7).
- 23.17 **Erosion Control**
 To prevent erosion, soil cover above the system shall be planted with native, shallow-rooted vegetation such as grass, wildflowers and certain perennials or ground covers.
- 23.18 **Trees and Shrubs**
 No trees or shrubs should be located within 10 ft of the system perimeter to prevent roots from growing into and damaging the system.

- 24.1 **System Bacteria Rejuvenation and Expansion**
 This section covers procedures for bacteria rejuvenation and explains how to expand existing systems. Presby Environmental, Inc. must be contacted for technical assistance prior to attempting rejuvenation procedures.
- 24.2 **Why would System Bacteria Rejuvenation be needed?**
 Bacteria rejuvenation is the return of bacteria to an aerobic state. Flooding, improper venting, alteration or removal of the system, or the use of antibiotics, antifungals, disinfectants, or other chemicals in any system from an aerobic to an anaerobic state. This conversion severely limits the bacteria's ability to effectively treat effluent. Presby Systems are near ability to be rejuvenated in place.

- 24.3 **How to Rejuvenate Bacteria**
 System bacteria may be returned to an aerobic state. By using the following procedure, this can be accomplished in most Presby Systems without costly removal and replacement. Caution: This procedure must be followed in such a way as to not create a public health hazard:
 1. Contact Presby Environmental before attempting Rejuvenation for technical assistance.
 2. Determine the problem causing the bacteria conversion.
 3. The system must be removed by an Indiana Lic. and State Health Officer.
 4. If foreign matter has entered the system, flush the pipes.
 5. Rejuvenate the open excavation.
 6. Rejuvenate the system with the system.
 7. Allow all rows to dry for 72 hours minimum. The System Sand should return to its natural color.
 8. Re-assemble the system to its original design configuration. Presby components are not biodegradable.
 9. Rejuvenate the system as there is no physical damage and they are adequately cleaned.

- 24.4 **System Expansion**
 Presby Systems are easily expanded by adding equal lengths of pipe to each row of the original design or by adding new rows. System expansions must comply with State and local regulations. Permits will be required prior to Presby System expansion.

- 24.5 **System Replacement**
 If a Presby System replacement follows the procedure outlined below. Caution: This procedure must be followed in such a way as to not create a public health hazard.
 - a) Secure the required state and local permits/approvals prior to beginning any work.
 - b) Remove the system to be replaced. The system must be removed by an Indiana Lic. and State Health Officer.
 - c) Replace damaged components with new Presby Products. If components are not damaged, they may be reused or contaminated soils from the site.
 - d) Replace in the same excavated location with new System Sand (IN DOT 23 sand).

- 25.1 **Operation & Maintenance**
 All system replacements must comply with State and Local regulations.

- 25.2 **Prepar Use**
 The Presby System requires periodic maintenance. The system is not subject to abuse. An awareness of proper use and routine maintenance operations will ensure the system's longevity. We encourage all system owners and service providers to obtain and review a copy of our Owner's Manual, available on our website www.PresbyEnvironmental.com or via mail upon request to (800) 473-5298 or info@presbyeco.com.

- 25.3 **System Abuse Conditions**
 - a) Liquid in high volume (excessive number of occupants, excessive use of water in a short period of time), leaking fixtures, whirlpool tubs, hot tubs, water softening equipment or additional water discharging fixtures if garbage disposals or water softening equipment (not specified in system design)
 - b) Solids in high volume (excessive number of occupants, paper products, personal hygiene products, garbage disposals or water softening equipment if not specified in system design)
 - c) Antibiotic medications in high concentrations
 - d) Chemicals or other caustic chemicals in any amount
 - e) Petroleum products in any amount
 - f) Fertilizers or other caustic chemicals in any amount
 - g) System sulfonation (compacted soils, barrier materials, etc.)
 - h) Special Note: Presby Environmental, Inc. and most regulatory agencies do not recommend the use of septic system additives.

- 25.4 **System Maintenance/Pumping of the Septic Tank**
 - a) Inspect the septic tank at least once every two years under normal usage.
 - b) If the septic tank is pumped, it must be pumped by a licensed Septic Tank Cleaner for sewage removal.
 - c) If a garbage disposal is used, the septic tank will likely require more frequent pumping.
 - d) Check the integrity of the tank inlet and outlet baffles and repair if needed. No groundwater is entering it. Also check the integrity of the tank inlet and outlet baffles and repair if needed.
 - e) Inspect the system to ensure that vents are in place and free of obstructions.
 - f) Effluent lines require ongoing maintenance due to their tendency to clog and cut off oxygen to the system. Follow manufacturer's maintenance instructions and inspect filters frequently.

- 25.5 **Site Maintenance**
 System site maintenance shall remain free of shrubs, trees, and other woody vegetation to which a minimum of 10 ft of the system, including the entire System Sand bed area, and areas impacted by slope lapping and perimeter drains (if used). Roots can infiltrate and cause damage or clogging of system components. It is important to make sure that the overall pipes are screened to prevent animal activity. Also check cultral Pipe regularly to ensure that they are not obstructed in any way.

POST INSTALLATION NOTIFICATION:
 FOLLOWING PRESBY SYSTEM INSTALLATION, THE INSTALLER SHALL SUBMIT A COMPLETED "SYSTEM INSTALLATION FORM" TO PRESBY AND THE HEALTH DEPARTMENT.
<http://presbyeco.com/wp-content/uploads/2016/09/Indiana-Installation-Form.pdf>



MARK	DESCRIPTION	APPR	DATE

ISSUE DATE	REVISION NO.	DESCRIPTION



SPRING MILL BIBLE CAMP
 2400 STATE ROAD 60 EAST
 NEW GLEN AND BOSTON RD.
 MITCHELL, INDIANA 46043

PRESBY SYSTEM SPECIFICATIONS

SHEET ID
CS504



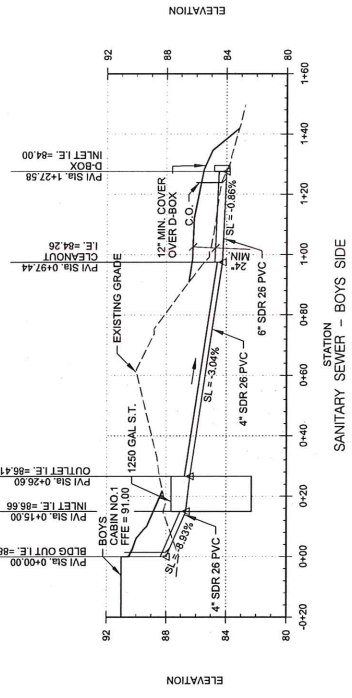
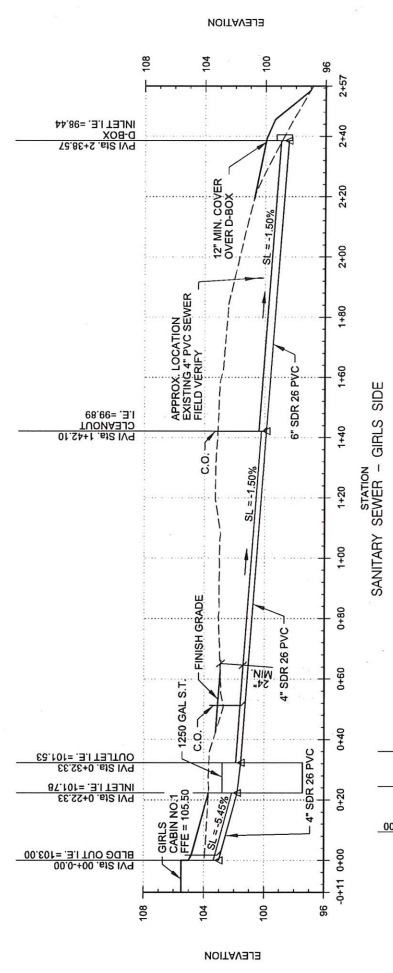
MARK	DESCRIPTION	DATE

ISSUE DATE	
DESIGNED BY	L.W. BAKER
DRAWN BY	L.W. BAKER
CONTRACT NO.	
PROJECT NO.	
DATE	
SCALE	
ANSI D MS1D	

SPRING MILL BIBLE CAMP
 2430 STATE ROAD 69 EAST
 MITCHELL, INDIANA 46044

SHEET ID
CG201

10
9
8
7
6
5
4
3
2
1



- NOTES:
- PIPE MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE PRE-APPROVED LIST AND RULE 410 IAC 6-10.1.
 - MINIMUM ALLOWABLE PIPE SLOPES
- | DIA. | TYPE | SLOPE |
|------|----------|-------|
| 4" | SEWER | 1.33% |
| 6" | SEWER | 0.67% |
| ALL | EFFLUENT | 0.20% |

A1 SANITARY SEWER PROFILE
 PROFILE VIEW: TYP

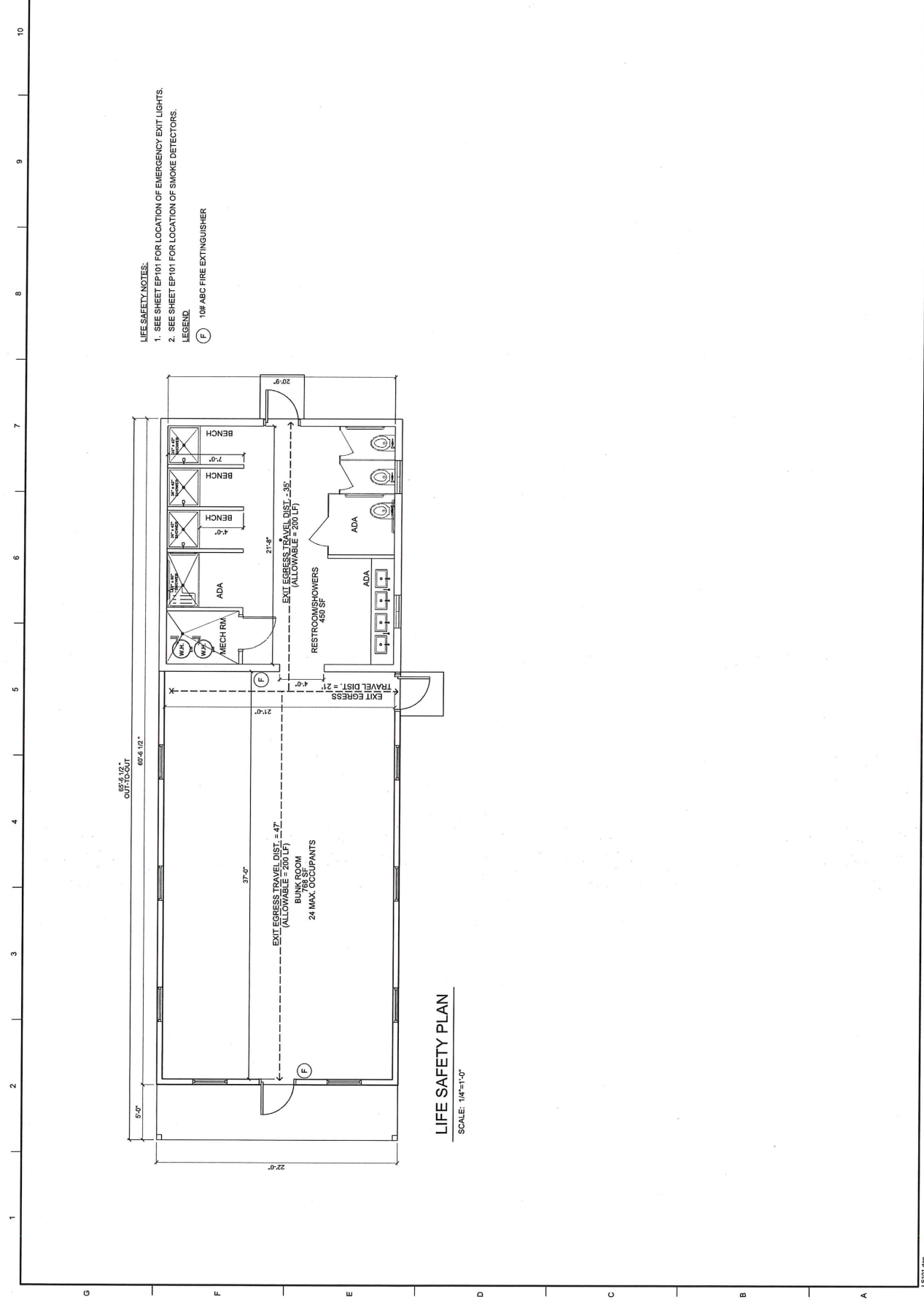


MARK	DESCRIPTION	APPR	DATE

ISSUE DATE	REVISIONS
SEPTEMBER 2018	1. DRAWN BY: L. WEILANDER
	2. CHECKED BY: J. SKAMON
	3. CONTRACT NO.:
	4. DRAWING CODE: SMBC - 1 - 2018
	5. SUBMITTED BY: L. WEILANDER
	6. ANS/D ANS/D

LIFE SAFETY PLAN
 SPRING MILL BIBLE CAMP
 3430 STATE ROAD 60 EAST
 MITCHELL, INDIANA 46204

SHEET ID
LS101

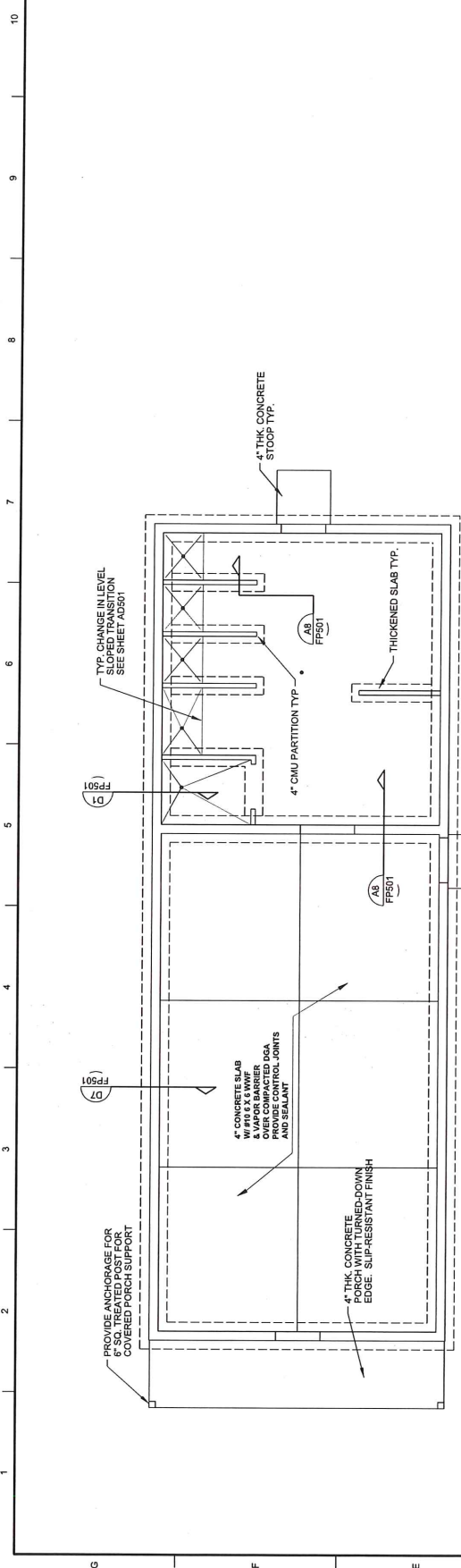


MARK	DESCRIPTION	APPR	DATE

REVISION	DATE	BY	DESCRIPTION
1	SEPTEMBER 2018	DRAWN BY: R. KAY	SCHEMATIC NO. 18
2	SEPTEMBER 2018	CHECKED BY: M. GIBBS	CONTRACT NO. 18-001
3	SEPTEMBER 2018	DESIGNED BY: L. WEINBAUER	SMBC - 1 - 2018



CABIN FOUNDATION PLAN
SPRING MILL BIBLE CAMP
NO. 1
2430 STATE ROAD 69 EAST
MICHTEL, INDIANA 46204



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

- REINFORCED CONCRETE**
1. MATERIAL SPECIFICATIONS IN GENERAL COMPLY WITH ACI-308-98. SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS:
 - I. CLASS
 - A. INTERIOR PIER: ALL OTHER
 - B. SITE CONCRETE FOR FOUNDATIONS
 - C. INTERIOR SLABS ON GRADE AND ALL OTHER CONCRETE NOT OTHERWISE IDENTIFIED
 - II
 - A. STRUCTURAL SLABS
 - B. PIER: SITE CONCRETE, PIT WALLS AND ALL EXPOSED CONCRETE TO WEATHER, AND ALL EXPOSED CONCRETE NOT OTHERWISE IDENTIFIED
 - III
 - A. ALL DEFORMED REINFORCING BARS: Fy = 80,000 PSI.
 2. FIELD MANUAL: PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE SP-15 AT ALL TIMES.
 3. CONTINGENCIES:
 - A. PROVIDE 1/4 TON OF REINFORCING BARS TO BE USED AS DIRECTED BY THE FIELD ENGINEER.
 - B. PROVIDE REINFORCING BARS TO BE USED AS DIRECTED BY THE FIELD ENGINEER OVER EXCAVATION, SOFT SPOTS, AND TRENCHES.
 4. OPENINGS:
 - A. REINFORCING BARS TO BE USED AS DIRECTED BY THE FIELD ENGINEER TO RECONCILE THEIR EXACT REQUIREMENTS BEFORE PROCEEDING WITH WORK.
 - B. PROVIDE CORNER BARS AT WALL AND FOOTING CORNERS TO MATCH HORIZONTAL BEYOND OPENING IN EVERY DIRECTION. OPENINGS SHALL BE 12" X 12" MAY BE SLIGHTLY OVER SIZE.
 - C. IF ANY OPENING NOT SHOWN ON THE PLANS IS REQUIRED, SECURE APPROVAL OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING.
 5. FOOTINGS: PIERS, WALLS
 - A. PROVIDE CORNER BARS AT WALL AND FOOTING CORNERS TO MATCH HORIZONTAL BEYOND OPENING IN EVERY DIRECTION. OPENINGS SHALL BE 12" X 12" MAY BE SLIGHTLY OVER SIZE.
 - B. DO NOT BACKFILL UNTIL BOTH ADJACENT FLOOR SLABS ARE IN PLACE.
 6. SPLICES:
 - A. PROVIDE CORNER BARS AT WALL AND FOOTING CORNERS TO MATCH HORIZONTAL BEYOND OPENING IN EVERY DIRECTION. OPENINGS SHALL BE 12" X 12" MAY BE SLIGHTLY OVER SIZE.
 - B. MINIMUM LAP FOR FOOTING, SLAB, AND HORIZONTAL WALL REINFORCING = 36 DIAMETERS.
- CONSTRUCTION JOINTS:**
7. CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER.
 8. WEDGE ANCHORS AND CHEMICAL ANCHORS:
 - A. EMBEDMENT SHALL BE 8 BOLT DIAMETERS, EXCEPT AS OTHERWISE DESIGNATED.
- MASONRY**
1. MATERIALS:
 - A. MORTAR: TYPE M, MASONRY (HOLLOW AND SOLID), Fm = 1,500 PSI
 - B. MORTAR: TYPE S, MASONRY (HOLLOW AND SOLID), Fm = 1,000 PSI
 - C. BOND BEAM AND CORE FILL: ASTM C276, COARSE TYPE
 - D. REINFORCING: #4, #5, #6, #8, #10, #11, #14, #16, #18, #20, #22, #25, #29, #36, #42, #54, #60, #66, #72, #78, #84, #90, #96, #102, #108, #114, #120, #126, #132, #138, #144, #150, #156, #162, #168, #174, #180, #186, #192, #198, #204, #210, #216, #222, #228, #234, #240, #246, #252, #258, #264, #270, #276, #282, #288, #294, #300, #306, #312, #318, #324, #330, #336, #342, #348, #354, #360, #366, #372, #378, #384, #390, #396, #402, #408, #414, #420, #426, #432, #438, #444, #450, #456, #462, #468, #474, #480, #486, #492, #498, #504, #510, #516, #522, #528, #534, #540, #546, #552, #558, #564, #570, #576, #582, #588, #594, #600, #606, #612, #618, #624, #630, #636, #642, #648, #654, #660, #666, #672, #678, #684, #690, #696, #702, #708, #714, #720, #726, #732, #738, #744, #750, #756, #762, #768, #774, #780, #786, #792, #798, #804, #810, #816, #822, #828, #834, #840, #846, #852, #858, #864, #870, #876, #882, #888, #894, #900, #906, #912, #918, #924, #930, #936, #942, #948, #954, #960, #966, #972, #978, #984, #990, #996, #1002, #1008, #1014, #1020, #1026, #1032, #1038, #1044, #1050, #1056, #1062, #1068, #1074, #1080, #1086, #1092, #1098, #1104, #1110, #1116, #1122, #1128, #1134, #1140, #1146, #1152, #1158, #1164, #1170, #1176, #1182, #1188, #1194, #1200, #1206, #1212, #1218, #1224, #1230, #1236, #1242, #1248, #1254, #1260, #1266, #1272, #1278, #1284, #1290, #1296, #1302, #1308, #1314, #1320, #1326, #1332, #1338, #1344, #1350, #1356, #1362, #1368, #1374, #1380, #1386, #1392, #1398, #1404, #1410, #1416, #1422, #1428, #1434, #1440, #1446, #1452, #1458, #1464, #1470, #1476, #1482, #1488, #1494, #1500
 - E. MASONRY DESIGN STRENGTH: Fm = 1,500 psi.
 2. MISCELLANEOUS:
 - A. PROVIDE 100% SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, 1 COURSE UNDER PIER.
 - B. FILL CORE SOLID AROUND ANCHOR BOLTS.
 - C. FILL CORE SOLID AROUND ANCHOR BOLTS.
 - D. PROVIDE SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, 1 COURSE UNDER PIER.
 - E. PROVIDE SOLID BLOCKS OR SOLIDLY FILLED HOLLOW BLOCKS AT ALL EXPANSION JOINTS.
 - F. EXPANSION JOINTS SHALL HAVE MINIMUM EMBEDMENT OF 6 BOLT DIAMETERS, EXCEPT AS DETAILLED OTHERWISE.
 - G. PROVIDE SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, 1 COURSE UNDER PIER.
 - H. PROVIDE SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, 1 COURSE UNDER PIER.
 - I. PROVIDE SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, 1 COURSE UNDER PIER.
 - J. PROVIDE SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, 1 COURSE UNDER PIER.
 - K. PROVIDE SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, 1 COURSE UNDER PIER.
 - L. PROVIDE SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, 1 COURSE UNDER PIER.
 - M. PROVIDE SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, 1 COURSE UNDER PIER.
 - N. PROVIDE SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, 1 COURSE UNDER PIER.
 - O. PROVIDE SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, 1 COURSE UNDER PIER.
 - P. PROVIDE SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, 1 COURSE UNDER PIER.
 - Q. PROVIDE SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, 1 COURSE UNDER PIER.
 - R. PROVIDE SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, 1 COURSE UNDER PIER.
 - S. PROVIDE SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, 1 COURSE UNDER PIER.
 - T. PROVIDE SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, 1 COURSE UNDER PIER.
 - U. PROVIDE SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, 1 COURSE UNDER PIER.
 - V. PROVIDE SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, 1 COURSE UNDER PIER.
 - W. PROVIDE SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, 1 COURSE UNDER PIER.
 - X. PROVIDE SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, 1 COURSE UNDER PIER.
 - Y. PROVIDE SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, 1 COURSE UNDER PIER.
 - Z. PROVIDE SOLID BEARING, MINIMUM 3 COURSES UNDER BEAMS, 1 COURSE UNDER PIER.
- LINELINES**
1. PROVIDE MASONRY LINELINE OVER ALL OPENINGS IN MASONRY WALLS. REFER TO FOUNDATION PLAN FOR LINELINE SIZES AND DESIGNATIONS IN PLANS & SECTIONS.

1 2 3 4 5 6 7 8 9 10



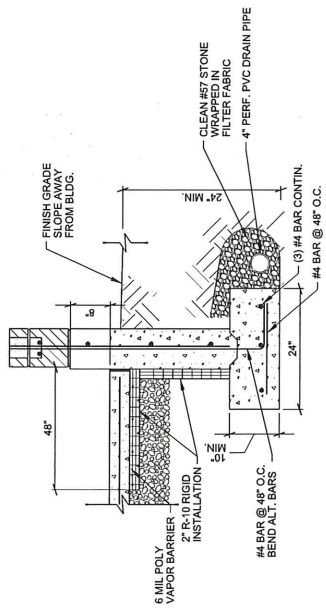
MARK	DESCRIPTION	APPR	DATE

DESIGNED BY L. WEBBANK SR. ENGINEER	DRAWN BY M. CAVON	CHECKED BY M. CAVON	DATE 11/11/2018
PROJECT NO. 18-0000	CONTRACT NO. 18-0000	ISSUE NO. 1	REVISION 1

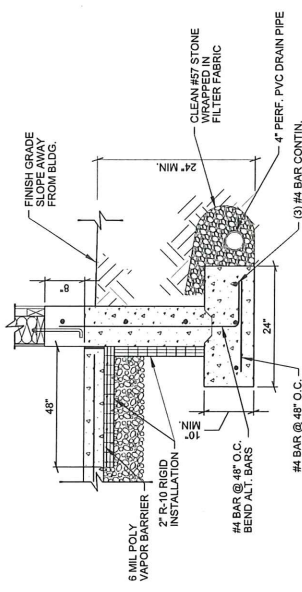


SPRING MILL BIBLE CAMP
FOUNDATION DETAILS
(SHEET 1 OF 2)
HENRY & SON ARCHITECTS
3000 STATE ROAD 60 EAST
MITCHELL, INDIANA 46294

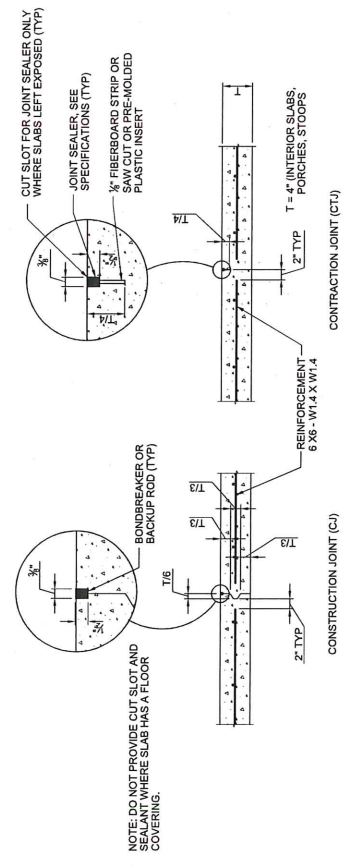
SHEET ID
FP501



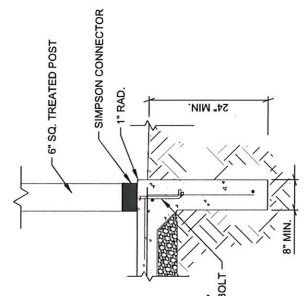
D1 TYP. CMU EXTERIOR FOOTING
SCALE: 1"=1'-0"



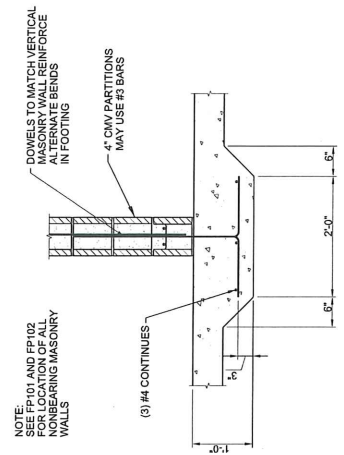
D7 TYP. FRAME WALL FOOTING
SCALE: 1"=1'-0"



A1 TYP. SLAB CONTROL JOINTS (NON-VEHICULAR)
SCALE: 1"=1'-0"



A5 TYP. TURN-DOWN SLAB
SCALE: 1"=1'-0"



A8 TYP. CMU THICKENED SLAB FOOTING
SCALE: 1"=1'-0"

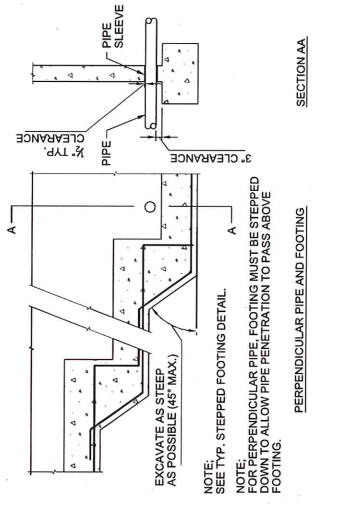
MARK	DESCRIPTION	APPR	DATE

ISSUED DATE	SEPTEMBER 2018
DESIGNED BY	L. WEBB
DRAWN BY	B. BAYOR
IN CHARGE	L. WEBB
CHECKED BY	L. WEBB
CONTRACT NO.	
FOR	
TO	
PROJECT NO.	
DATE	
ANSI D 451.0	

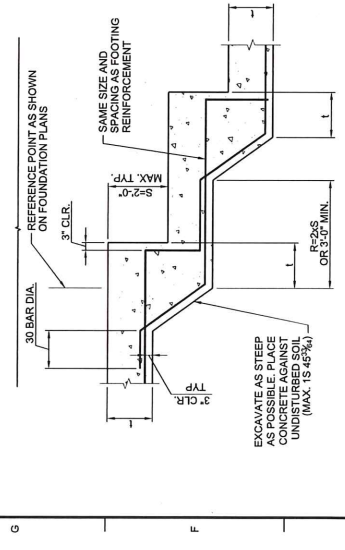


FOUNDATION DETAILS
 (SHEET 2 OF 2)
 SPRING MILL BIBLE CAMP
 NEW GIRLS AND BOYS CAMP NO. 1
 1400 STATE ROAD 60 EAST
 MITCHELL, INDIANA 46204

10 9 8 7 6 5 4 3 2 1



E4 TYP. BURIED PIPE AT FOOTING
 SCALE: 3/8"=1'-0"

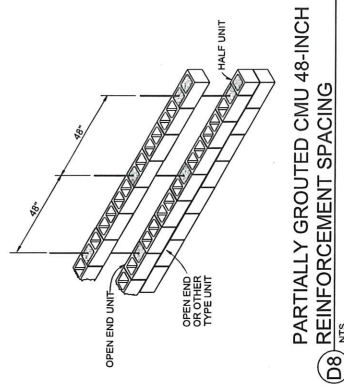


E1 TYP. STEPPED FOOTING
 SCALE: 3/8"=1'-0"

MARK	DESCRIPTION	APPR	DATE

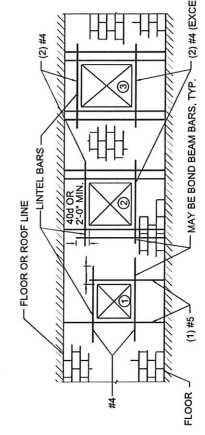
REVISION	DATE	BY	DESCRIPTION

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1

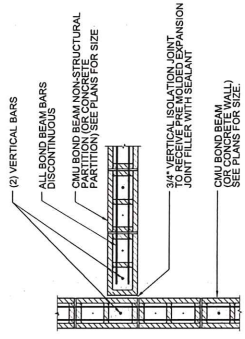


(D8) NTS

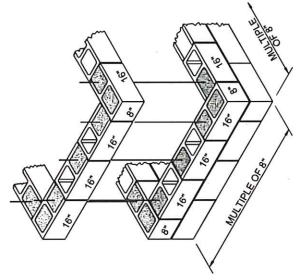
- NOTES**
- GROUT LINTELS SOLID FOR 1' (MIN.) BEYOND OPENING
 - FOR ALL OTHERS, GROUT LINTELS TO EITHER EDGE EXCEED 2'-0" BUT LESS THAN 4'-0" UNLESS OTHERWISE NOTED.
 - BOND BEAM REINFORCEMENT NOT SHOWN FOR CLARITY.



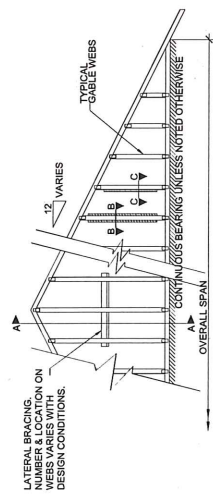
(D1) NTS



(C5) NTS



(C1) NTS



- NOTES**
- BRACING SHALL BE PER TRUSS MANUFACTURER RECOMMENDATIONS AND BUILDING CODE REQUIREMENT.

(A1) NTS

MARK	DESCRIPTION	DATE

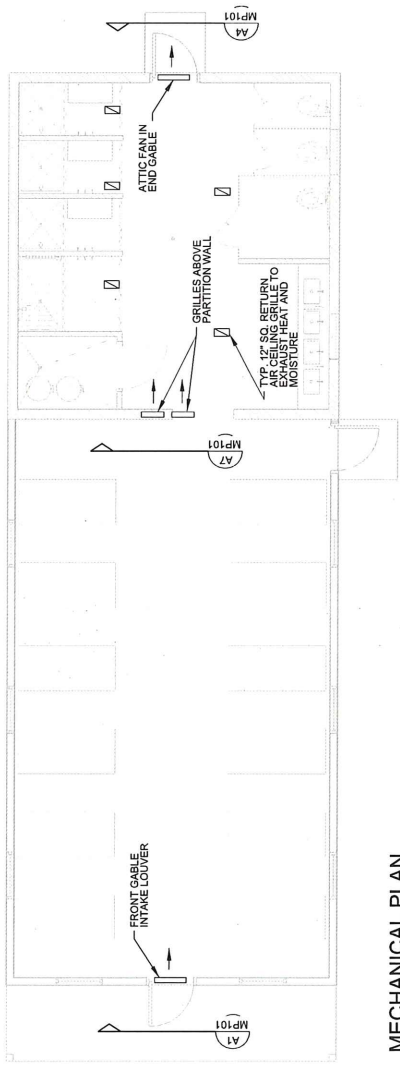
REVISION	DATE	DESCRIPTION
1		
2		
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7		
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9		
10		
11		
12		
13		

DESIGNED BY: L. WEAVER
 DRAWN BY: B. KAYOR
 CHECKED BY: L. WEAVER
 CONTRACT NO.: 18-0011
 DRAWING NO.: 18-0011-01
 DATE: 11/14/2018
 PROJECT: SMBC - 1 - 2018

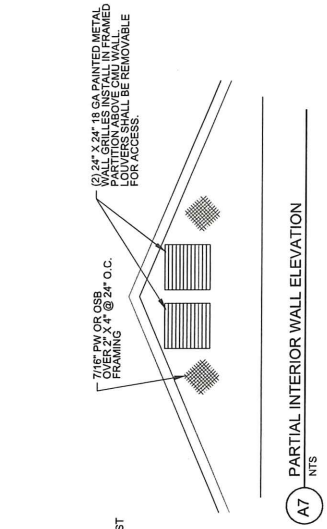
MECHANICAL PLAN
 SPRING MILL BIBLE CAMP
 4300 STATE ROAD 60 EAST
 MITCHELL, INDIANA 46204

10 9 8 7 6 5 4 3 2 1

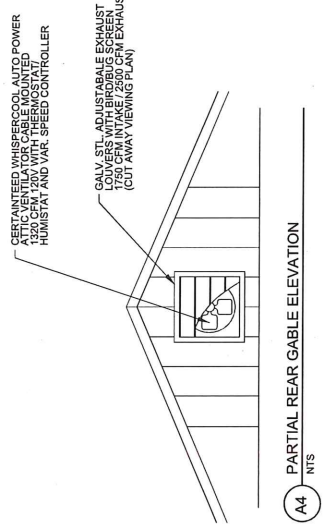
- NOTES:**
- FURNISH AND INSTALL A COMPLETE HEATING AND COOLING SYSTEM, FULLY AUTOMATIC AND EVENLY BALANCED IN ALL ROOMS. SHOWING THE LOCATION, TYPE AND SIZE OF UNITS, DUCTWORK, SUPPLY, DIFFUSERS, RETURN GRILLES, ETC.
 - SYSTEM SHALL BE IN ACCORDANCE WITH THE AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS.
 - BASED ON STANDARD RATING CONDITIONS AND DESIGN OF THE INDUSTRY AND RULES OF TRADE.
 - THE CONTRACTOR SHALL GUARANTEE THAT THE SYSTEM WILL OPERATE UNDER THE CONDITIONS STIPULATED BY THE OWNER.
 - THE CONTRACTOR SHALL SUBMIT FINAL LAYOUT OF SYSTEM AND INSTALLATION DIAGRAMS, SHOP DRAWINGS, AND FOR APPROVAL BEFORE INSTALLATION. CONSULT AN ENGINEER CONFORM TO THE PRACTICE OF GOOD WORKMANSHIP, IN ACCORDANCE WITH APPLICABLE REQUIREMENTS.
 - THE MECHANICAL CONTRACTOR SHALL CORRECT ANY DEFICIENCIES NOTED BY THE OWNER AND THE FINAL RESPONSIBILITY FOR CORRECT INSTALLATION AND PROPER FUNCTIONING OF THE HEATING AND COOLING SYSTEM SHALL REST WITH THE MECHANICAL CONTRACTOR.
 - ALL INSTALLATIONS SHALL BE DONE BY EXPERIENCED CRAFTSMEN AND ACCORDING TO THE RULES OF THE TRADE.
 - COOLING EQUIPMENT AND ALL RELATED ITEMS SHALL BE LOCAL CODES, FEDERAL, STATE AND LOCAL HEALTH, SAFETY AND NECESSARY PERMITS.
 - THE HVAC CONTRACTOR SHALL PROCURE AND PAY FOR ALL DUCT DIMENSIONS ARE FOR FREE AREA. PROPER ADJUSTMENT SHOULD BE MADE TO COVER ALL DUCT DIMENSIONS IF DUCT LINER IS USED.
 - CONTRACTOR SHALL COVER UP ANY DUCT WORK IS TO BE LEFT OPEN.
 - ALL WINDOWS ARE SCREENED, ACCESSIBLE, OPERABLE AND FULLY OPENABLE BY HAND FROM THE INSIDE WITHOUT USE OF ANY SPECIAL DEVICE OR KEY.



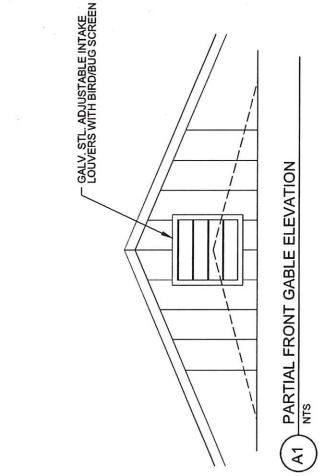
MECHANICAL PLAN
 SCALE: 1/4"=1'-0"



PARTIAL INTERIOR WALL ELEVATION
 A7 NTS



PARTIAL REAR GABLE ELEVATION
 A4 NTS



PARTIAL FRONT GABLE ELEVATION
 A1 NTS

MARK	DESCRIPTION	APPR	DATE

ISSUE DATE	REVISION	BY	DATE

DESIGNED BY: L. WEBER
 DRAWN BY: L. WEBER
 CHECKED BY: L. WEBER
 SUBMITTED BY: L. WEBER
 DRAWING CODE: SMBC-1-2018
 ANSID A3110

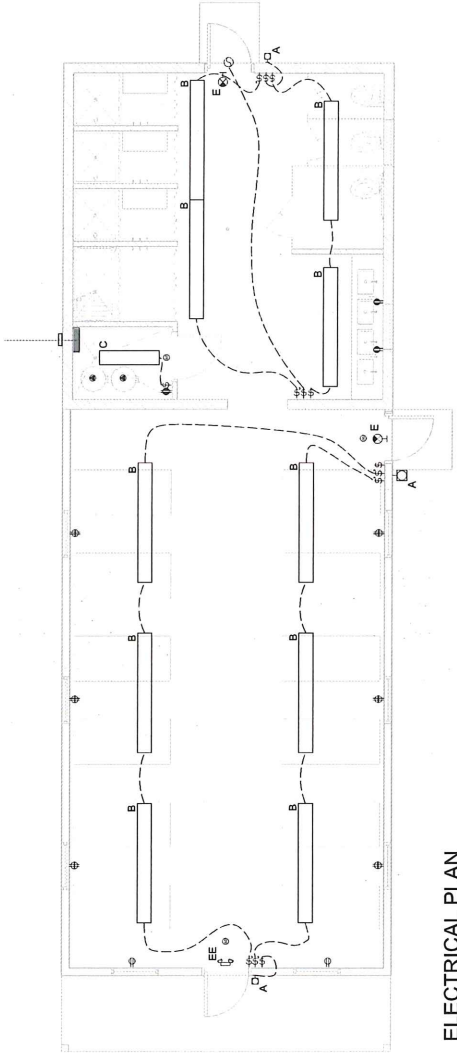
SPRING MILL BIBLE CAMP
 260 S 51ST RD
 MICHIGAN, INDIANA 46204
 ELECTRICAL PLAN

SHEET ID
EP101

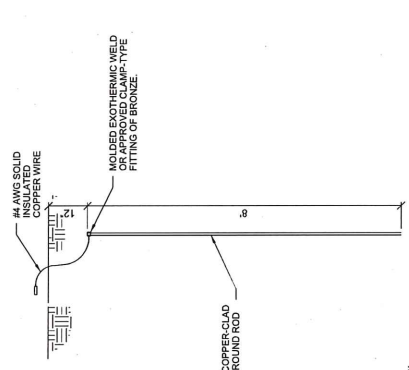
NOTES:

- ALL WORK, MATERIALS, AND EQUIPMENT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE, UNDERWRITERS LABORATORIES, OSHA, AND LOCAL CODES.
- INSTALLATION OF ALL WIRING SHALL BE CONSIDERED DIAGNOSTIC ONLY SHOWING GENERAL ARRANGEMENT IDENTIFIED FUNCTION, AND TYPES OF FIXTURES AND EQUIPMENT TO BE INSTALLED. ALL WORK SHALL COMPLY WITH PROJECT REQUIREMENTS.
- SERVICE ENTRANCE CONDUCTORS AND EQUIPMENT SHALL BE OF A CAPACITY ADEQUATE TO SERVICE THE CALCULATED LOAD AND ANY SPARE CIRCUITS PROVIDED FOR FUTURE USE.
- THE SIZE OF SERVICE ENTRANCE CONDUCTORS AND CAPACITY OF SERVICE EQUIPMENT SHALL BE COMPUTED BY THE METHOD INDICATED IN THE NATIONAL ELECTRIC CODE.
- VERIFY SERVICE ENTRANCE WITH THE UTILITY PROVIDER.
- COORDINATE CLEARANCES, DOOR SWINGS, ETC. WITH OTHER TRADES TO AVOID CONFLICT.
- WIRING SHALL BE CONCEALED IN WALLS OR CEILINGS APPROVED SURFACE WIRING SHALL BE RUN IN APPROVED CONDUIT.
- INSTALLATION SHALL BE RESPONSIBLE FOR INSPECTION AND APPROVAL OF THE COMPLETE AND SATISFACTORY INSTALLATION OF FIXTURES, EQUIPMENT, AND FOR FINAL ACCEPTANCE BY A QUALIFIED LICENSED ELECTRICIAN.

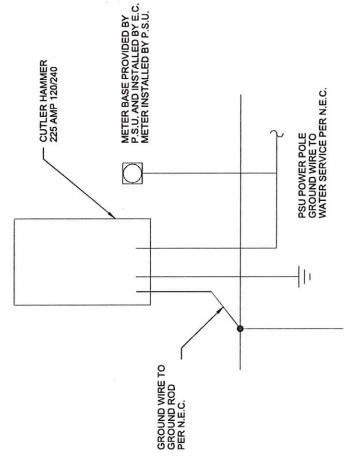
Tag	Description	Lamp			Notes
		Qty	Type	Watts	
A	Outdoor shielded	1	LED	120	wall surface weather and vandal resistant
B	8" TS indoor stop	2	LED	120	ceiling surface
C	4" TS indoor stop	2	LED	120	ceiling surface
EE	Emergency exit control	1	LED	120	wall surface battery and charger
E	Exit sign	1	LED	120	wall surface battery and charger



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



GROUNDING DETAIL
 NTS



TYP. ELECTRICAL RISER DIAGRAM
 NTS

ELECTRICAL LEGEND

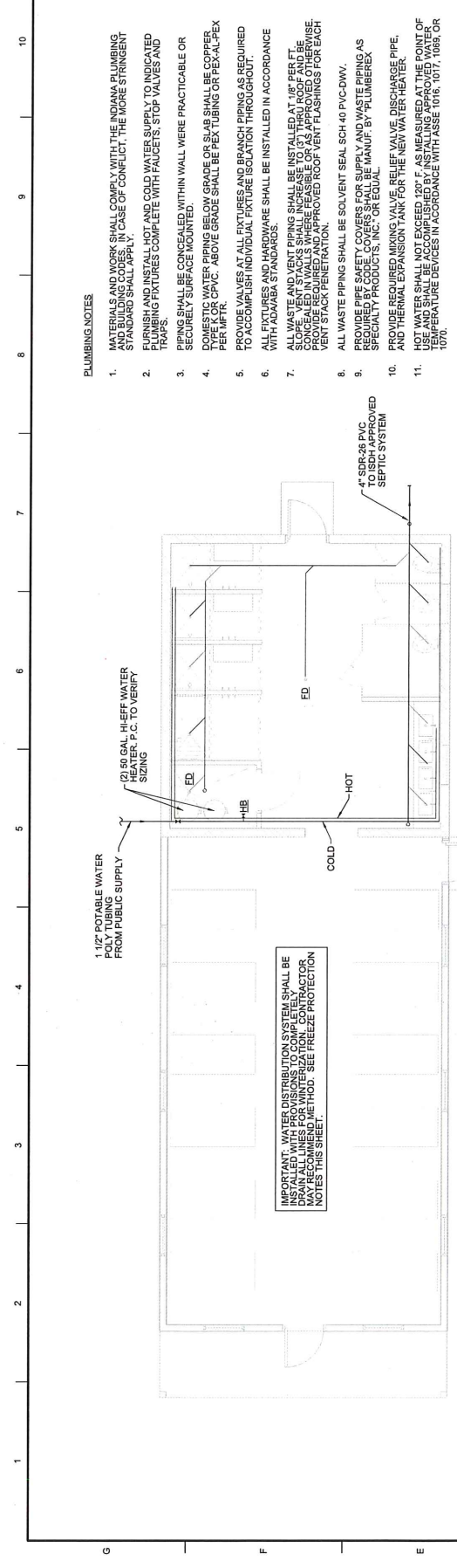
⊕	SWITCH	⊕	EXIT SIGN (WALL MOUNTED)
⊕	3-WAY SWITCH	⊕	JUNCTION BOX
⊕	120 VOLT OUTLET	⊕	DOUBLE GROUND OUTLET
⊕	DEDICATED CIRCUIT	⊕	DOUBLE DUPLEX GROUND OUTLET
⊕	240 VOLT CIRCUIT	⊕	GROUND FAULT DUPLEX OUTLET
⊕	STANDARD LIGHT FIXT.	⊕	GROUND FAULT DEDICATED OUTLET
⊕	RECESSED CAN LIGHT	⊕	ELECTRICAL PANEL
⊕	WALL LIGHT FIXT.	⊕	ELECTRICAL MOTOR
⊕	METAL HALIDE WALL PACK	⊕	PURD DISCONNECT SWITCH
⊕	SMOKE DETECTOR	⊕	TUBE FIXTURE, SEE SCHEDULE
⊕	EXHAUST FAN	⊕	CONDUIT RUN UNDERGROUND
⊕	DATAPHONE JACK	⊕	WPG WEATHERPROOF GROUND FAULT
⊕	EMERGENCY LIGHT ON BATTERY PACK	⊕	
⊕	4" T5 FLUORESCENT LIGHT	⊕	
⊕	15W FLUORESCENT LIGHT	⊕	

MARK	DESCRIPTION	DATE

ISSUE DATE	ISSUE BY	DESCRIPTION



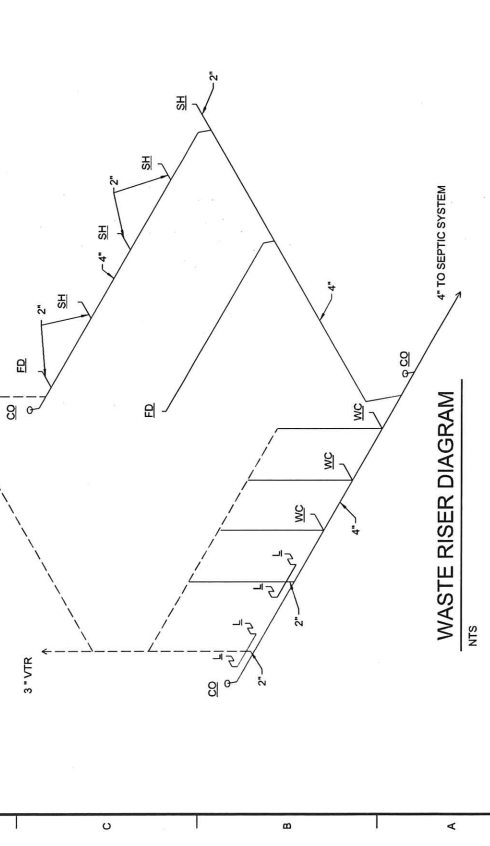
DESIGNED BY: SFT/BAKEM 2018
 DRAWN BY: SFT/BAKEM
 CHECKED BY: SFT/BAKEM
 CONTRACT NO.: 18-001
 PROJECT NO.: 18-001
 DRAWING NO.: 18-001-PLUMBING PLAN
 SHEET NO.: 18-001-PLUMBING PLAN

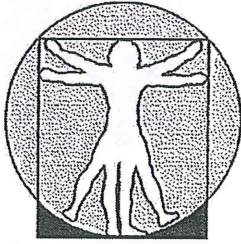


- PLUMBING NOTES**
- MATERIALS AND WORK SHALL COMPLY WITH THE INDIANA PLUMBING AND BUILDING CODES. IN CASE OF CONFLICT, THE MORE STRINGENT STANDARD SHALL APPLY.
 - FURNISH AND INSTALL HOT AND COLD WATER SUPPLY TO INDICATED TRAPPING FIXTURES COMPLETE WITH FAUCETS, STOP VALVES AND TRAPPING.
 - PIPES SHALL BE CONCEALED WITHIN WALL WHERE PRACTICABLE OR SECURELY SURFACE MOUNTED.
 - DOMESTIC WATER PIPING BELOW GRADE OR SLABS SHALL BE COPPER TYPE K OR CPVC. ABOVE GRADE SHALL BE PEX TUBING OR PEX-AL-PEX PER MFR.
 - PROVIDE VALVES AT ALL FIXTURES AND BRANCH PIPING AS REQUIRED TO FACILITATE INDIVIDUAL FIXTURE ISOLATION THROUGHOUT.
 - ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE STANDARDS.
 - ALL WASTE AND VENT PIPING SHALL BE INSTALLED AT 1/8" PER FT. SLOPE. VENT STACKS SHALL INCREASE TO 3/4" THRU ROOF AND BE PROVIDED WITH WIND RAIN CAPS. WIND RAIN CAPS SHALL BE PROVIDED TO PREVENT WIND AND APPLIED ROOF FLASHINGS FROM CAUSING VENT STACK PENETRATION.
 - ALL WASTE PIPING SHALL BE SOLVENT SEAL SCH 40 PVC-DWV.
 - PROVIDE PIPE SAFETY COVERS FOR SUPPLY AND WASTE PIPING AS REQUIRED BY CODE. COVERS SHALL BE MANUF. BY PLUMBEREX SPECIALTY PRODUCTS, INC. OR EQUAL.
 - ALL VIDE REQUIRED MAKING VALVE, RELIEF VALVE, DISCHARGE PIPE, AND VIDE REQUIRED MAKING VALVE, RELIEF VALVE, DISCHARGE PIPE, AND VIDE REQUIRED MAKING VALVE, RELIEF VALVE, DISCHARGE PIPE.
 - HOT WATER SHALL NOT EXCEED 120°F. HOT WATER SHALL BE INSTALLED AND USED AS REQUIRED BY APPLICABLE CODES. PROVIDE TEMPERATURE PROTECTION DEVICES IN ACCORDANCE WITH ASSE 1016, 1017, 1065, OR 1018.
- FREEZE PROTECTION NOTES**
- ALL ITEMS LISTED BELOW ARE RECOMMENDATIONS AND SHOULD NOT BE USED UNLESS SPECIFICALLY LISTED. THE SHUT-DOWN AND DRAINING OF ITEMS LISTED BELOW SHALL BE THE RESPONSIBILITY OF SMBC.
- ALL PIPING, FIXTURES, EQUIPMENT, ETC. DOWNSTREAM OF EXTERIOR SHUT-DOWN VALVE SHALL BE DRAINABLE.
 - WATER HEATERS TO BE SHUT-DOWN, TANKS DRAINED, AND PREPPED FOR WINTER STORAGE PER MANUFACTURER'S RECOMMENDATIONS.
 - ALL DRAINS, INCLUDING FLOOR DRAINS, FLOOR SINKS, CATCH BASIN DRAINS, AND SINKS SHALL BE DRAINABLE. WATER SHALL BE DRAINABLE AND NOT FROZEN OR OTHER EPIDEMIOLOGICAL SEWER AUTHORITY APPROVED LIQUID IN DRAIN TRAP.
 - ALL WATER CLOSET BOWLS TO BE PROVIDED WITH BIO-DEGRADABLE ANTI-FREEZE OR OTHER EPIDEMIOLOGICAL SEWER AUTHORITY APPROVED LIQUID. UPON SHUT-DOWN OF FACILITY, THE DOMESTIC WATER METER AND ALL DOWNSTREAM PIPING SHALL BE DRAINABLE AND DRAINED FREE OF WATER WITH STORAGE BY OWNER.
 - ALL MIXING VALVES AND TRAP PRIMER VALVES TO BE DISCONNECTED, DRAINABLE, AND STORED POST SYSTEM SHUT-DOWN.

PLUMBING LEGEND
 SEE FLOOR PLAN FOR SHOWER ROOM FIXTURES AND ACCESSORIES.

L	LAVATORY
WC	WATER CLOSET
HB	HOSE BIBB - INTERIOR WALL HYDRANT, ANGLED NOZZLE, THREADED OUTLET
FD	FLOOR DRAIN - CAST IRON WITH BRONZE AND INTEGRAL CLEANOUT
CO	CLEAN OUT - FLUSH WITH FLOOR CAST IRON BODY. SCHEDULE 40 BRONZE TOP SECURED TO CASTING WITH SCREWS
WH	WATER HEATER - EFFICIENCY 50 GAL. ELECTRIC MAX. 5000W, 240V. PROVIDE RELIEF VALVE, EXPANSION TANK.
SH	SHOWER
VTR	VENT THRU ROOF





RENAISSANCE DESIGN BUILD, INC.

INDIANA OFFICES
117 S Indiana Avenue
Sellersburg, IN 47172
Tel: 812-246-5897
Fax: 812-248-4320

rdbi@sbcglobal.net

KENTUCKY OFFICES
1012 S. Fourth Street
Louisville, KY 40203
Tel: 502-424-8373
Fax: 502-587-0931

www.renaissancedesignbuild.com



November 6, 2018

Indiana Department of Homeland Security
Code Services Section
402 West Washington Street, Room E245
Indianapolis, Indiana 46024-2739

Re: Spring Mill Bible Camp
Job No. 2018-496A

Dear Commissioners,

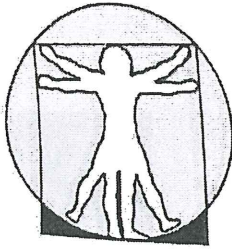
This letter is being submitted with all variance applications by Spring Mill Bible Camp. Its purpose is to provide "written documentation showing that the local fire department is aware of the nature of the variance" and "written documentation showing that the local building official is aware of the nature of the variances."

Representatives of Spring Mill Bible Camp have discussed and explained to me the nature of the proposed variances.

By my signature affixed below, I am not necessarily approving the requested variances, only stating that I am aware of the request and its nature.


(Local Fire Department)

Fire Chief
Marian Twp F.D.
Lawrence Co. IN.
812-583-0024



RENAISSANCE DESIGN BUILD, INC.

INDIANA OFFICES
117 S Indiana Avenue
Sellersburg, IN 47172
Tel: 812-246-5897
Fax: 812-248-4320

rdbi@sbcglobal.net

KENTUCKY OFFICES
1012 S. Fourth Street
Louisville, KY 40203
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November 6, 2018

Indiana Department of Homeland Security
Code Services Section
402 West Washington Street, Room E245
Indianapolis, Indiana 46024-2739

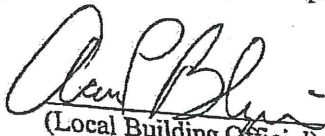
Re: Spring Mill Bible Camp
Job No. 2018-496A

Dear Commissioners,

This letter is being submitted with all variance applications by Spring Mill Bible Camp. Its purpose is to provide "written documentation showing that the local fire department is aware of the nature of the variance" and "written documentation showing that the local building official is aware of the nature of the variances."

Representatives of Spring Mill Bible Camp have discussed and explained to me the nature of the proposed variances.

By my signature affixed below, I am not necessarily approving the requested variances, only stating that I am aware of the request and its nature.


(Local Building Official)

Chaney, Sarah

From: Blazier, Aaron
Sent: Tuesday, November 27, 2018 7:46 AM
To: Clouse, Chris
Cc: Cooley, Erica; Chaney, Sarah
Subject: RE: Variance letter

Chris,

This has been signed and sent back some time ago. I still have no idea what the variance is pertaining to, other than this CDR "403225 SPRING MILL BIBLE CAMP".

Aaron P Blazier | Code Official- Code Enforcement
Fire & Building Safety Division
Indiana Department of Homeland Security
302 West Washington Street, Room E241
Indianapolis, IN 46204
Cell: 317-499-7692
Email: ablazier@dhs.in.gov
Web: www.in.gov/dhs

From: Clouse, Chris
Sent: Monday, November 26, 2018 3:24 PM
To: Blazier, Aaron <ABlazier@dhs.IN.gov>
Cc: Cooley, Erica <ECOoley@dhs.IN.gov>; Chaney, Sarah <SChaney@dhs.IN.gov>
Subject: Variance letter

Aaron, This letter came today with nothing else. Sarah did not find a variance application on file. Do you have any idea what this is about?

Christine Clouse / Secretary 3
Fire and Building Code Enforcement
302 W Washington Street, Rm E241
Indianapolis, IN 46204
Phone 317-232-2393
Questions 317-232-1407
Fax 317-233-0307
Email: cclouse@dhs.in.gov
Web: www.in.gov/dhs

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