

IDENTIFICATION STAMP  
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OFFICE OF REGULATION SERVICES  
03-120240  
AC / FLS / SS / [Signature]  
DATE JAN 02 2018



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PRE-CHECKED SET NAME  
**24'x40' THRU 120'x40' HIGH PITCH MODULAR BUILDINGS**

SITE SPECIFIC PROJECT NAME

SHEET TITLE  
**CONCRETE FOUNDATION PLAN (50 PSF LIVE LOAD + 15 PSF FLOOR PARTITION LOAD)**

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT  
PATRICK C. WILSON  
NO. C12631  
REN 3-31-18  
STATE OF CALIFORNIA  
REGISTERED PROFESSIONAL ENGINEER  
MANNING D. FRANKLIN  
NO. 47358  
STRUCTURAL  
STATE OF CALIFORNIA  
8-20-18  
RST18175

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS SHOWN & SIGNED BY THE DESIGNER OR RECORD.  
PROJECT SPECIFIC STATE AGENCY APPROVAL

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DIV. OF THE STATE ARCHITECT  
02 117846  
AC / FLS / SS / [Signature]  
DATE AUG 2 2018

ORIGINAL PC STATE AGENCY APPROVAL

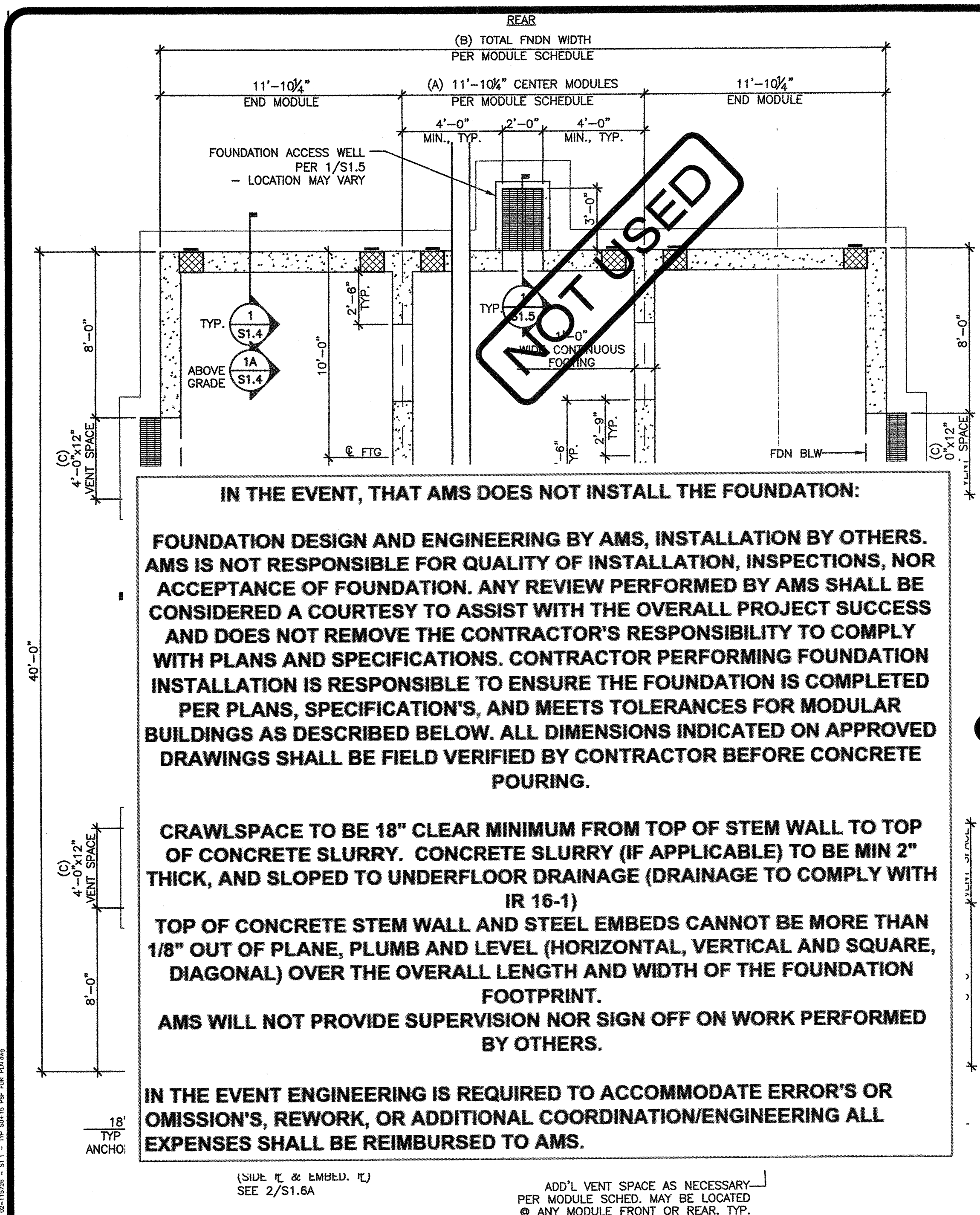
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PC 02-115726  
AC / FLS / SS / [Signature]  
DATE 10-11-2018

PRE-CHECKED (PC) DOCUMENT  
CODE 2018 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

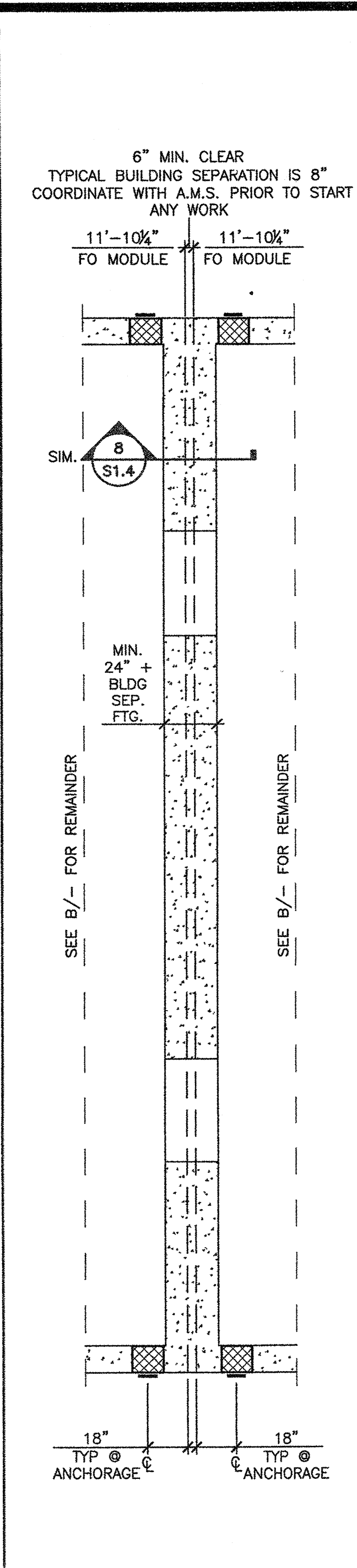
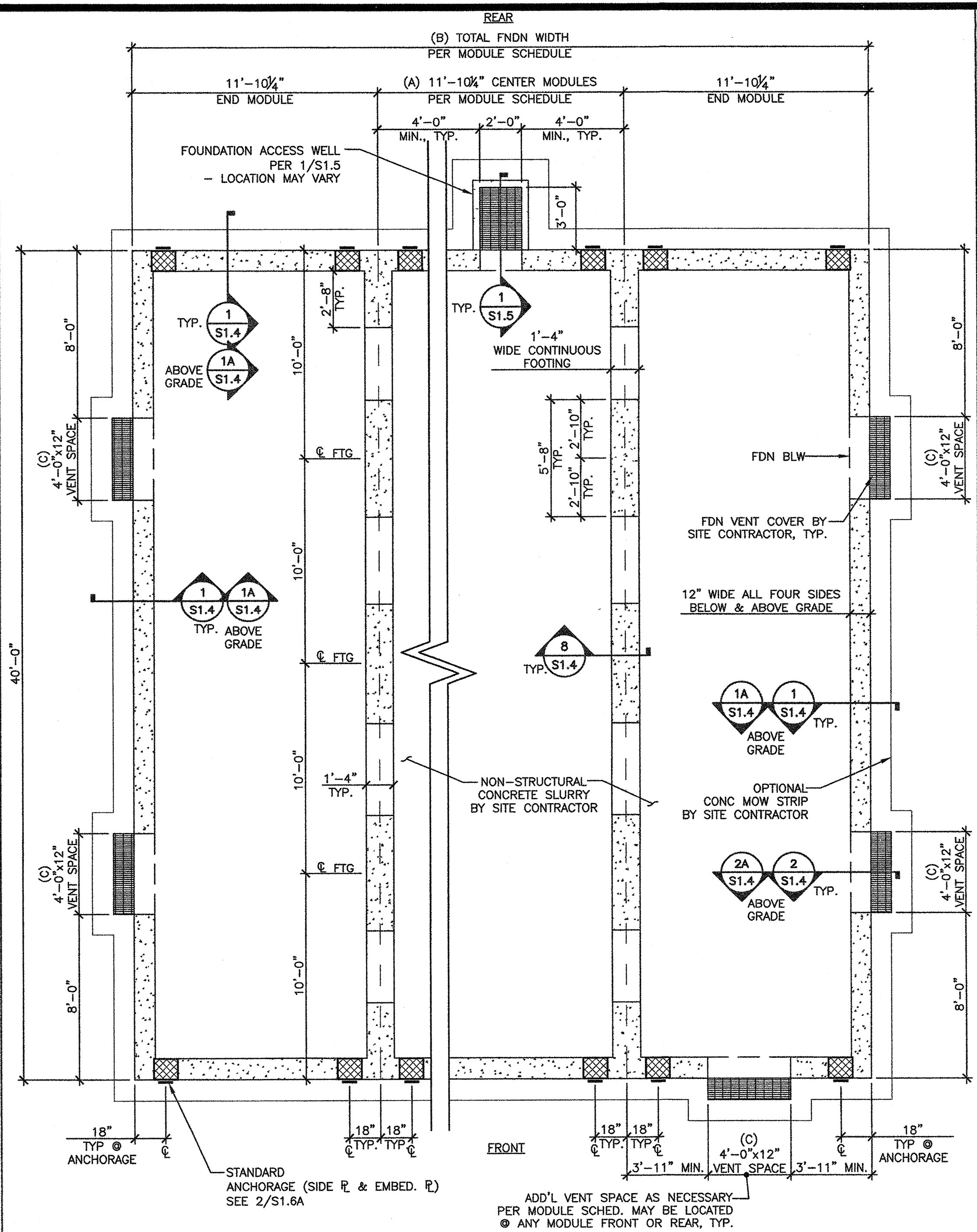
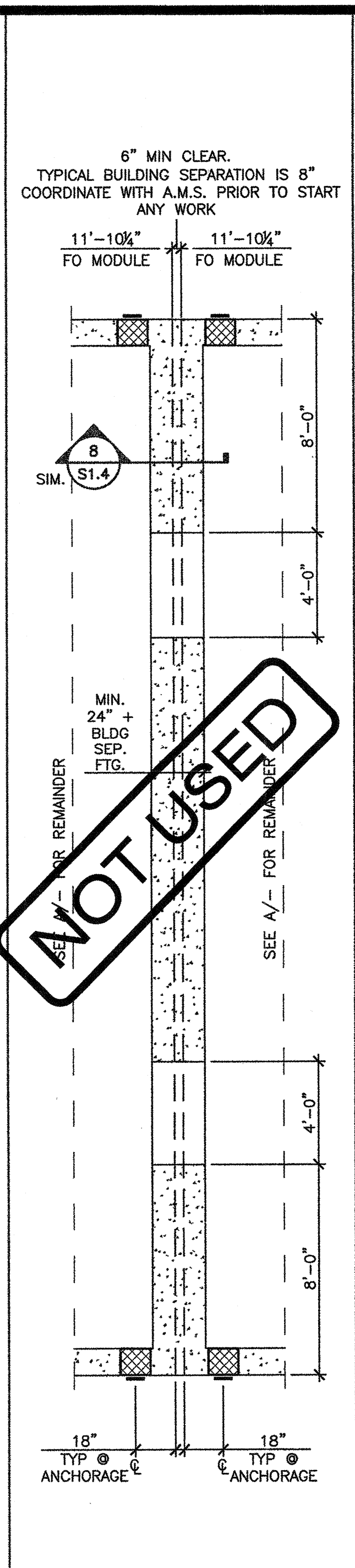
REVISIONS

DRAWN BY: AS NOTED  
DATE: SHEET NUMBER

**S1.1-02**



**IN THE EVENT, THAT AMS DOES NOT INSTALL THE FOUNDATION:**  
**FOUNDATION DESIGN AND ENGINEERING BY AMS, INSTALLATION BY OTHERS. AMS IS NOT RESPONSIBLE FOR QUALITY OF INSTALLATION, INSPECTIONS, NOR ACCEPTANCE OF FOUNDATION. ANY REVIEW PERFORMED BY AMS SHALL BE CONSIDERED A COURTESY TO ASSIST WITH THE OVERALL PROJECT SUCCESS AND DOES NOT REMOVE THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH PLANS AND SPECIFICATIONS. CONTRACTOR PERFORMING FOUNDATION INSTALLATION IS RESPONSIBLE TO ENSURE THE FOUNDATION IS COMPLETED PER PLANS, SPECIFICATIONS, AND MEETS TOLERANCES FOR MODULAR BUILDINGS AS DESCRIBED BELOW. ALL DIMENSIONS INDICATED ON APPROVED DRAWINGS SHALL BE FIELD VERIFIED BY CONTRACTOR BEFORE CONCRETE POURING.**  
**CRAWLSPACE TO BE 18" CLEAR MINIMUM FROM TOP OF STEM WALL TO TOP OF CONCRETE SLURRY. CONCRETE SLURRY (IF APPLICABLE) TO BE MIN 2" THICK, AND SLOPED TO UNDERFLOOR DRAINAGE (DRAINAGE TO COMPLY WITH IR 16-1)**  
**TOP OF CONCRETE STEM WALL AND STEEL EMBEDS CANNOT BE MORE THAN 1/8" OUT OF PLANE, PLUMB AND LEVEL (HORIZONTAL, VERTICAL AND SQUARE, DIAGONAL) OVER THE OVERALL LENGTH AND WIDTH OF THE FOUNDATION FOOTPRINT.**  
**AMS WILL NOT PROVIDE SUPERVISION NOR SIGN OFF ON WORK PERFORMED BY OTHERS.**  
**IN THE EVENT ENGINEERING IS REQUIRED TO ACCOMMODATE ERROR'S OR OMISSION'S, REWORK, OR ADDITIONAL COORDINATION/ENGINEERING ALL EXPENSES SHALL BE REIMBURSED TO AMS.**



CONCRETE FOUNDATION PLAN (PLYWOOD FLOOR)  
50 PSF LIVE LOAD + 15 PSF PARTITION LOAD

SCALE 1/4"=1'-0"

NOMINAL BLDG SIZE (FT)	TOTAL # OF 12" WIDE MODULES	TOTAL # OF CENTER MODULES	TOTAL # OF END MODULES	TOTAL NOMINAL FLOOR AREA (FT²)	TOTAL NET FREE VENT AREA REQ'D (FT²)	NET FREE VENT AREA PROVIDED (FT²)
24'x40'	2	0	2	960	3	6.4
36'x40'	2	2	2	1440	4	9.6
48'x40'	4	2	2	1920	5	12.8
60'x40'	6	2	2	2400	6	16.0
72'x40'	8	4	2	2880	7	19.2
84'x40'	10	6	2	3360	8	22.4
96'x40'	12	8	2	3840	9	25.6
108'x40'	14	10	2	4320	10	28.8
120'x40'	16	12	2	4800	11	32.0

NOTES:  
1. DO NOT INSTALL BUILDING IN AREAS OF WATER FLOW LINES.  
2. CONCRETE MIXTURES:  
A. ULTIMATE 28-DAY CONCRETE COMPRESSIVE STRENGTH (f'c) SHALL BE 3500 PSI MIN. EXCEPT VENTS & ACCESS WELLS MAY BE 3,000 PSI MIN.  
B. PROPORTIONING OF CONCRETE MIXTURES SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.3.  
C. DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.4.  
D. CEMENT SHALL BE CERTIFIED PER TITLE 24, PART 2, SECTION 1910A.1.  
3. BUILDINGS MAY BE SET ON CONCRETE FOUNDATIONS THAT HAVE REACHED A MINIMUM CONCRETE COMPRESSIVE STRENGTH OF 70% OF THE SPECIFIED DESIGN STRENGTH (f'c) STATED ABOVE IN NOTE #2. PRIOR TO THE SETTING OF THE MODULAR BUILDING ON CONCRETE FOUNDATIONS THAT HAVE NOT YET CURED 28 DAYS POST PLACEMENT OF FOUNDATION CONCRETE, THE FOUNDATION CONTRACTOR SHALL:  
A. HAVE THE PROJECT TESTING LAB PERFORM CONCRETE CYLINDER COMPRESSION TESTS OF THE FOUNDATION CONCRETE USED AT THE SITE.  
B. FURNISH THE PROJECT IOR AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WITH THE CONCRETE TEST REPORTS VERIFYING THAT THE FOUNDATION CONCRETE HAS REACHED THE MINIMUM STRENGTH AS SPECIFIED ABOVE, AND  
C. NOTIFY THE PROJECT IOR AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF THEIR INTENT TO SET THE MODULAR BUILDING PRIOR TO 28 DAYS POST PLACEMENT OF FOUNDATION CONCRETE.  
4. THE REINFORCING BARS MUST BE TESTED PER TITLE 24, PART 2, SECTION 1910A.2. TEST OF REINFORCING BARS MAY BE WAIVED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WITH THE APPROVAL OF DSA FOR A ONE-STORY BUILDING, PROVIDED CERTIFIED MILL TEST REPORTS ARE PROVIDED FOR EACH SHIPMENT OF SUCH REINFORCEMENT.  
5. REINFORCING STEEL SHALL BE 60,000 PSI MINIMUM, PER ASTM A615.  
6. DESIGN SOIL BEARING CAPACITY: 1500 PSF.  
(1/3 INCREASE IN SOIL BEARING CAPACITY NOT PERMITTED UNLESS USING ALTERNATIVE BASIC LOAD COMBINATIONS PER CBC SECTION 1605A.3.2)  
7. THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL VERIFY THE NET AREA OF THE UNDER-FLOOR VENTING IS EQUAL TO OR LARGER THAN THE VENT AREA REQUIRED (AS SHOWN ON THE ADJACENT TABLE).

NOTES:  
1. TOTAL FOUNDATION WIDTH INCLUDES 1/4" PER MODULE CONSTRUCTION TOLERANCE.  
2. UNLESS NOTED OTHERWISE, DIMENSIONS ARE FROM FACE OF CONCRETE TO FACE OF CONCRETE (F.O.C. TO F.O.C.)  
3. THE NUMBER OF VENTS REQUIRED IS BASED ON THE VENT NET FREE AREA (NFA) PROVIDED BEING GREATER OR EQUAL TO THE VENT NFA REQUIRED. VENT NFA REQUIRED IS BASED ON A 1:150 VENTILATION RATIO OF THE NOMINAL BUILDING FLOOR AREA. VENT NFA PROVIDED IS THE ACTUAL OPEN AREA WITH A VENT GROSS AREA REDUCTION PERCENTAGE OF 73% & NUMBER OF VENTS PROVIDED.  
NFA<sub>REQUIRED</sub> = A<sub>FLOOR</sub> / 150  
A<sub>VENT,GROSS</sub> × 73% × (# OF VENTS) > NFA<sub>REQUIRED</sub>  
(12"x4") × 0.73 × (# OF VENTS) > NFA<sub>REQUIRED</sub>  
2.92 FT² × (# OF VENTS) > NFA<sub>REQUIRED</sub>

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

NOMINAL BLDG SIZE (FT)	TOTAL # OF 12" WIDE MODULES	TOTAL # OF CENTER MODULES	TOTAL # OF END MODULES	TOTAL NOMINAL FLOOR AREA (FT²)	TOTAL NET FREE VENT AREA REQ'D (FT²)	NET FREE VENT AREA PROVIDED (FT²)
24'x40'	2	0	2	960	3	6.4
36'x40'	2	2	2	1440	4	9.6
48'x40'	4	2	2	1920	5	12.8
60'x40'	6	2	2	2400	6	16.0
72'x40'	8	4	2	2880	7	19.2
84'x40'	10	6	2	3360	8	22.4
96'x40'	12	8	2	3840	9	25.6
108'x40'	14	10	2	4320	10	28.8
120'x40'	16	12	2	4800	11	32.0

NOTES:  
1. DO NOT INSTALL BUILDING IN AREAS OF WATER FLOW LINES.  
2. CONCRETE MIXTURES:  
A. ULTIMATE 28-DAY CONCRETE COMPRESSIVE STRENGTH (f'c) SHALL BE 3500 PSI MIN. EXCEPT VENTS & ACCESS WELLS MAY BE 3,000 PSI MIN.  
B. PROPORTIONING OF CONCRETE MIXTURES SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.3.  
C. DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.4.  
D. CEMENT SHALL BE CERTIFIED PER TITLE 24, PART 2, SECTION 1910A.1.  
3. BUILDINGS MAY BE SET ON CONCRETE FOUNDATIONS THAT HAVE REACHED A MINIMUM CONCRETE COMPRESSIVE STRENGTH OF 70% OF THE SPECIFIED DESIGN STRENGTH (f'c) STATED ABOVE IN NOTE #2. PRIOR TO THE SETTING OF THE MODULAR BUILDING ON CONCRETE FOUNDATIONS THAT HAVE NOT YET CURED 28 DAYS POST PLACEMENT OF FOUNDATION CONCRETE, THE FOUNDATION CONTRACTOR SHALL:  
A. HAVE THE PROJECT TESTING LAB PERFORM CONCRETE CYLINDER COMPRESSION TESTS OF THE FOUNDATION CONCRETE USED AT THE SITE.  
B. FURNISH THE PROJECT IOR AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WITH THE CONCRETE TEST REPORTS VERIFYING THAT THE FOUNDATION CONCRETE HAS REACHED THE MINIMUM STRENGTH AS SPECIFIED ABOVE, AND  
C. NOTIFY THE PROJECT IOR AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF THEIR INTENT TO SET THE MODULAR BUILDING PRIOR TO 28 DAYS POST PLACEMENT OF FOUNDATION CONCRETE.  
4. THE REINFORCING BARS MUST BE TESTED PER TITLE 24, PART 2, SECTION 1910A.2. TEST OF REINFORCING BARS MAY BE WAIVED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WITH THE APPROVAL OF DSA FOR A ONE-STORY BUILDING, PROVIDED CERTIFIED MILL TEST REPORTS ARE PROVIDED FOR EACH SHIPMENT OF SUCH REINFORCEMENT.  
5. REINFORCING STEEL SHALL BE 60,000 PSI MINIMUM, PER ASTM A615.  
6. DESIGN SOIL BEARING CAPACITY: 1500 PSF.  
(1/3 INCREASE IN SOIL BEARING CAPACITY NOT PERMITTED UNLESS USING ALTERNATIVE BASIC LOAD COMBINATIONS PER CBC SECTION 1605A.3.2)  
7. THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL VERIFY THE NET AREA OF THE UNDER-FLOOR VENTING IS EQUAL TO OR LARGER THAN THE VENT AREA REQUIRED (AS SHOWN ON THE ADJACENT TABLE).

NOTES:  
1. TOTAL FOUNDATION WIDTH INCLUDES 1/4" PER MODULE CONSTRUCTION TOLERANCE.  
2. UNLESS NOTED OTHERWISE, DIMENSIONS ARE FROM FACE OF CONCRETE TO FACE OF CONCRETE (F.O.C. TO F.O.C.)  
3. THE NUMBER OF VENTS REQUIRED IS BASED ON THE VENT NET FREE AREA (NFA) PROVIDED BEING GREATER OR EQUAL TO THE VENT NFA REQUIRED. VENT NFA REQUIRED IS BASED ON A 1:150 VENTILATION RATIO OF THE NOMINAL BUILDING FLOOR AREA. VENT NFA PROVIDED IS THE ACTUAL OPEN AREA WITH A VENT GROSS AREA REDUCTION PERCENTAGE OF 73% & NUMBER OF VENTS PROVIDED.  
NFA<sub>REQUIRED</sub> = A<sub>FLOOR</sub> / 150  
A<sub>VENT,GROSS</sub> × 73% × (# OF VENTS) > NFA<sub>REQUIRED</sub>  
(12"x4") × 0.73 × (# OF VENTS) > NFA<sub>REQUIRED</sub>  
2.92 FT² × (# OF VENTS) > NFA<sub>REQUIRED</sub>

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

NOMINAL BLDG SIZE (FT)	TOTAL # OF 12" WIDE MODULES	TOTAL # OF CENTER MODULES	TOTAL # OF END MODULES	TOTAL NOMINAL FLOOR AREA (FT²)	TOTAL NET FREE VENT AREA REQ'D (FT²)	NET FREE VENT AREA PROVIDED (FT²)
24'x40'	2	0	2	960	3	6.4
36'x40'	2	2	2	1440	4	9.6
48'x40'	4	2	2	1920	5	12.8
60'x40'	6	2	2	2400	6	16.0
72'x40'	8	4	2	2880	7	19.2
84'x40'	10	6	2	3360	8	22.4
96'x40'	12	8	2	3840	9	25.6
108'x40'	14	10	2	4320	10	28.8
120'x40'	16	12	2	4800	11	32.0

NOTES:  
1. DO NOT INSTALL BUILDING IN AREAS OF WATER FLOW LINES.  
2. CONCRETE MIXTURES:  
A. ULTIMATE 28-DAY CONCRETE COMPRESSIVE STRENGTH (f'c) SHALL BE 3500 PSI MIN. EXCEPT VENTS & ACCESS WELLS MAY BE 3,000 PSI MIN.  
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C. DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.4.  
D. CEMENT SHALL BE CERTIFIED PER TITLE 24, PART 2, SECTION 1910A.1.  
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A. HAVE THE PROJECT TESTING LAB PERFORM CONCRETE CYLINDER COMPRESSION TESTS OF THE FOUNDATION CONCRETE USED AT THE SITE.  
B. FURNISH THE PROJECT IOR AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WITH THE CONCRETE TEST REPORTS VERIFYING THAT THE FOUNDATION CONCRETE HAS REACHED THE MINIMUM STRENGTH AS SPECIFIED ABOVE, AND  
C. NOTIFY THE PROJECT IOR AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF THEIR INTENT TO SET THE MODULAR BUILDING PRIOR TO 28 DAYS POST PLACEMENT OF FOUNDATION CONCRETE.  
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5. REINFORCING STEEL SHALL BE 60,000 PSI MINIMUM, PER ASTM A615.  
6. DESIGN SOIL BEARING CAPACITY: 1500 PSF.  
(1/3 INCREASE IN SOIL BEARING CAPACITY NOT PERMITTED UNLESS USING ALTERNATIVE BASIC LOAD COMBINATIONS PER CBC SECTION 1605A.3.2)  
7. THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL VERIFY THE NET AREA OF THE UNDER-FLOOR VENTING IS EQUAL TO OR LARGER THAN THE VENT AREA REQUIRED (AS SHOWN ON THE ADJACENT TABLE).

NOTES:  
1. TOTAL FOUNDATION WIDTH INCLUDES 1/4" PER MODULE CONSTRUCTION TOLERANCE.  
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NFA<sub>REQUIRED</sub> = A<sub>FLOOR</sub> / 150  
A<sub>VENT,GROSS</sub> × 73% × (# OF VENTS) > NFA<sub>REQUIRED</sub>  
(12"x4") × 0.73 × (# OF VENTS) > NFA<sub>REQUIRED</sub>  
2.92 FT² × (# OF VENTS) > NFA<sub>REQUIRED</sub>

CONCRETE FOUNDATION PLAN (CONCRETE FLOOR)  
50 PSF LIVE LOAD + 15 PSF PARTITION LOAD

SCALE 1/4"=1'-0"

NOMINAL BLDG SIZE (FT)	TOTAL # OF 12" WIDE MODULES	TOTAL # OF CENTER MODULES	TOTAL # OF END MODULES	TOTAL NOMINAL FLOOR AREA (FT²)	TOTAL NET FREE VENT AREA REQ'D (FT²)	NET FREE VENT AREA PROVIDED (FT²)
24'x40'	2	0	2	960	3	6.4
36'x40'	2	2	2	1440	4	9.6
48'x40'	4	2	2	1920	5	12.8
60'x40'	6	2	2	2400	6	16.0
72'x40'	8	4	2	2880	7	19.2
84'x40'	10	6	2	3360	8	22.4
96'x40'	12	8	2	3840	9	25.6
108'x40'	14	10	2	4320	10	28.8
120'x40'	16	12	2	4800	11	32.0

NOTES:  
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A. HAVE THE PROJECT TESTING LAB PERFORM CONCRETE CYLINDER COMPRESSION TESTS OF THE FOUNDATION CONCRETE USED AT THE SITE.  
B. FURNISH THE PROJECT IOR AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WITH THE CONCRETE TEST REPORTS VERIFYING THAT THE FOUNDATION CONCRETE HAS REACHED THE MINIMUM STRENGTH AS SPECIFIED ABOVE, AND  
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NOTES:  
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(12"x4") × 0.73 × (# OF VENTS) > NFA<sub>REQUIRED</sub>  
2.92 FT² × (# OF VENTS) > NFA<sub>REQUIRED</sub>

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

NOMINAL BLDG SIZE (FT)	TOTAL # OF 12" WIDE MODULES	TOTAL # OF CENTER MODULES	TOTAL # OF END MODULES	TOTAL NOMINAL FLOOR AREA (FT²)	TOTAL NET FREE VENT AREA REQ'D (FT²)	NET FREE VENT AREA PROVIDED (FT²)
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36'x40'	2	2	2	1440	4	9.6
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60'x40'	6	2	2	2400	6	16.0
72'x40'	8	4	2	2880	7	19.2
84'x40'	10	6	2	3360	8	22.4
96'x40'	12	8	2	3840	9	25.6
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120'x40'	16	12	2	4800	11	32.0

NOTES:  
1. DO NOT INSTALL BUILDING IN AREAS OF WATER FLOW LINES.  
2. CONCRETE MIXTURES:  
A. ULTIMATE 28-DAY CONCRETE COMPRESSIVE STRENGTH (f'c) SHALL BE 3500 PSI MIN. EXCEPT VENTS & ACCESS WELLS MAY BE 3,000 PSI MIN.  
B. PROPORTIONING OF CONCRETE MIXTURES SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.3.  
C. DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.4.  
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A. HAVE THE PROJECT TESTING LAB PERFORM CONCRETE CYLINDER COMPRESSION TESTS OF THE FOUNDATION CONCRETE USED AT THE SITE.  
B. FURNISH THE PROJECT IOR AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WITH THE CONCRETE TEST REPORTS VERIFYING THAT THE FOUNDATION CONCRETE HAS REACHED THE MINIMUM STRENGTH AS SPECIFIED ABOVE, AND  
C. NOTIFY THE PROJECT IOR AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF THEIR INTENT TO SET THE MODULAR BUILDING PRIOR TO 28 DAYS POST PLACEMENT OF FOUNDATION CONCRETE.  
4. THE REINFORCING BARS MUST BE TESTED PER TITLE 24, PART 2, SECTION 1910A.2. TEST OF REINFORCING BARS MAY BE WAIVED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WITH THE APPROVAL OF DSA FOR A ONE-STORY BUILDING, PROVIDED CERTIFIED MILL TEST REPORTS ARE PROVIDED FOR EACH SHIPMENT OF SUCH REINFORCEMENT.  
5. REINFORCING STEEL SHALL BE 60,000 PSI MINIMUM, PER ASTM A615.  
6. DESIGN SOIL BEARING CAPACITY: 1500 PSF.  
(1/3 INCREASE IN SOIL BEARING CAPACITY NOT PERMITTED UNLESS USING ALTERNATIVE BASIC LOAD COMBINATIONS PER CBC SECTION 1605A.3.2)  
7. THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL VERIFY THE NET AREA OF THE UNDER-FLOOR VENTING IS EQUAL TO OR LARGER THAN THE VENT AREA REQUIRED (AS SHOWN ON THE ADJACENT TABLE).

NOTES:  
1. TOTAL FOUNDATION WIDTH INCLUDES 1/4" PER MODULE CONSTRUCTION TOLERANCE.  
2. UNLESS NOTED OTHERWISE, DIMENSIONS ARE FROM FACE OF CONCRETE TO FACE OF CONCRETE (F.O.C. TO F.O.C.)  
3. THE NUMBER OF VENTS REQUIRED IS BASED ON THE VENT NET FREE AREA (NFA) PROVIDED BEING GREATER OR EQUAL TO THE VENT NFA REQUIRED. VENT NFA REQUIRED IS BASED ON A 1:150 VENTILATION RATIO OF THE NOMINAL BUILDING FLOOR AREA. VENT NFA PROVIDED IS THE ACTUAL OPEN AREA WITH A VENT GROSS AREA REDUCTION PERCENTAGE OF 73% & NUMBER OF VENTS PROVIDED.  
NFA<sub>REQUIRED</sub> = A<sub>FLOOR</sub> / 150  
A<sub>VENT,GROSS</sub> × 73% × (# OF VENTS) > NFA<sub>REQUIRED</sub>  
(12"x4") × 0.73 × (# OF VENTS) > NFA<sub>REQUIRED</sub>  
2.92 FT² × (# OF VENTS) > NFA<sub>REQUIRED</sub>