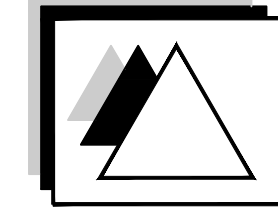
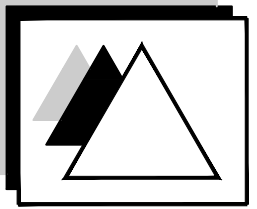
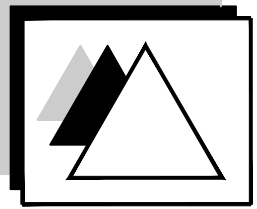
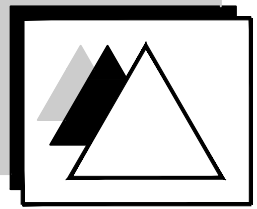
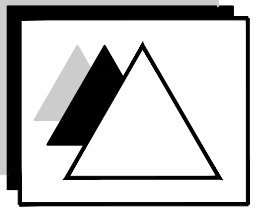
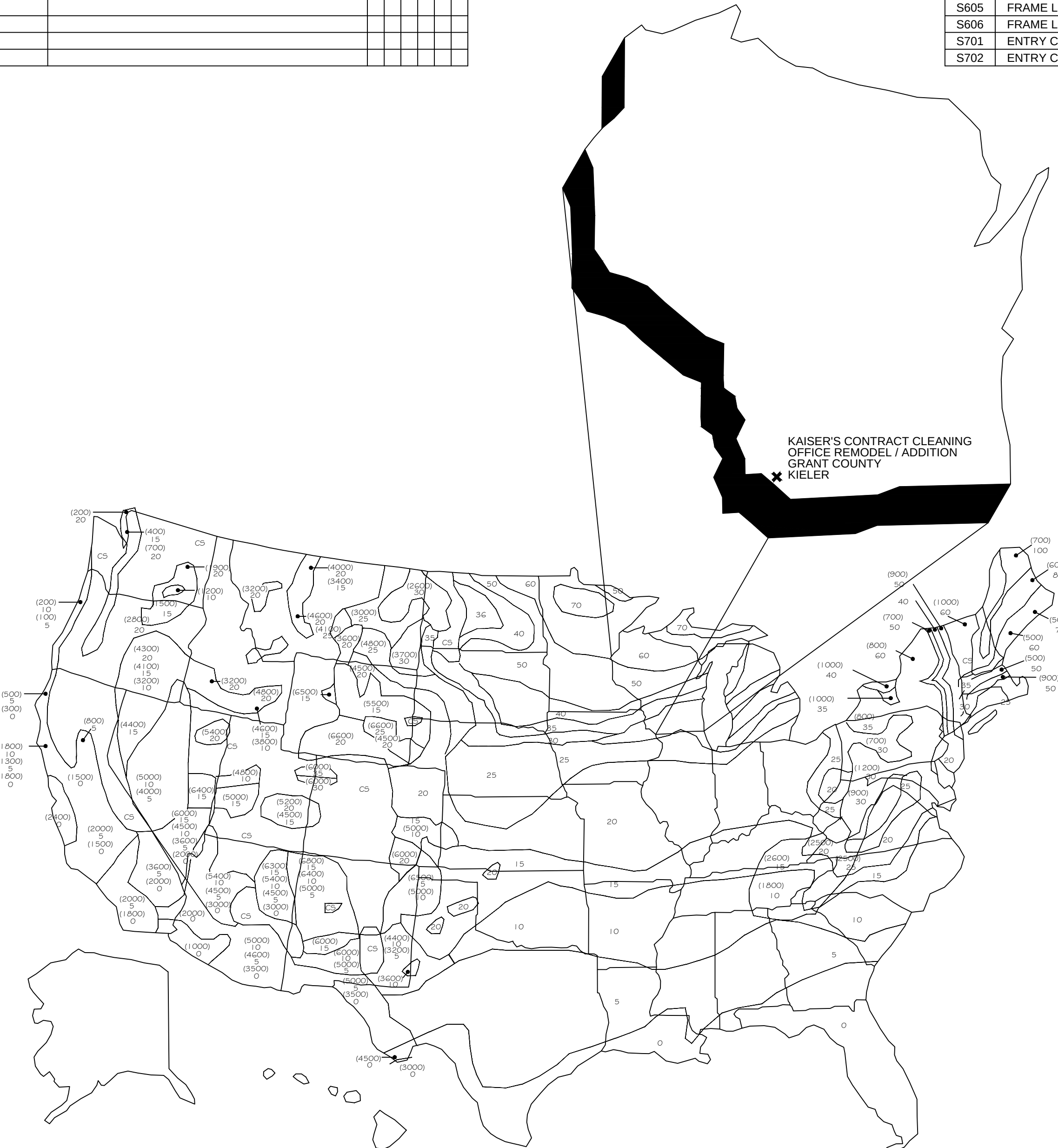


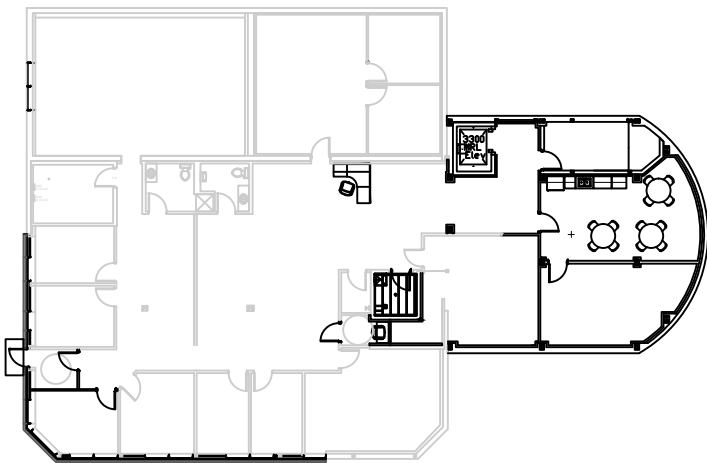
Kaiser's Contract Cleaning Office Remodel / Addition

Kieler, WI

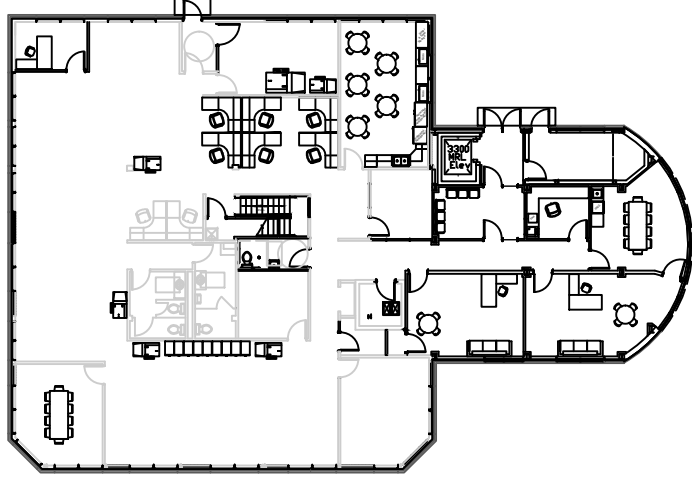
DRAWING INDEX				DRAWING INDEX				CONTINUED DRAWING INDEX				DRAWING INDEX				DRAWING INDEX			
CIVIL				ARCHITECTURAL				STRUCTURAL				LIGHTING				PLUMBING			
																			
DELTA 3 ENGINEERING INC				DELTA 3 ENGINEERING INC				DELTA 3 ENGINEERING INC				DELTA 3 ENGINEERING INC				DELTA 3 ENGINEERING INC			
C101	EXISTING SITE PLAN		X	A001	CODE ANALYSIS			S101	ADDITION FOUNDATION PLAN VIEW			E101	BASEMENT LEVEL LIGHTING PLAN			P001	PLUMBING FIXTURE SCHEDULES & DETAILS		
C102	PROPOSED SITE PLAN		X	A002	PHASING PLAN - BASEMENT PLAN		X	S201	FOUNDATION DETAILS		X	E102	MAIN LEVEL LIGHTING PLAN		X	P101	DRAIN, WASTE, & VENT PLAN & SCHEMATIC		X
C103	GRADING PLAN		X	A003	PHASING PLAN - MAIN LEVEL		X	S202	FOUNDATION DETAILS		X	E103	UPPER LEVEL LIGHTING PLAN		X	P102	WATER DISTRIBUTION PLAN VIEW		X
C104	LANDSCAPING & EROSION CONTROL PLAN		X	A004	PHASING PLAN - UPPER LEVEL		X	S301	BASEMENT FRAMING & DIMENSIONING PLAN		X	E104	BASEMENT LEVEL EMERGENCY LIGHTING PLAN		X	P103	WATER DISTRIBUTION SCHEMATIC		X
C105	EROSION CONTROL DETAILS		X	A101	EXISTING LOWER LEVEL FLOOR PLAN			S302	MAIN LEVEL FRAMING & DIMENSIONING PLAN		X	E105	MAIN LEVEL EMERGENCY LIGHTING PLAN		X				
C106	SITE DETAILS			A102	EXISTING MAIN LEVEL & MEZZ. FLOOR PLAN			S303	UPPER LEVEL FRAMING & DIMENSION PLAN		X	E106	UPPER LEVEL EMERGENCY LIGHTING PLAN		X				
				A103	PROPOSED LOWER LEVEL FLOOR PLAN		X	S304	ROOF FRAMING PLAN		X	E107	BASEMENT LEVEL ELECTRICAL PLAN		X				
				A104	PROPOSED MAIN LEVEL FLOOR PLAN		X	S305	BASEMENT LEVEL MASONRY PLAN		X	E108	MAIN LEVEL ELECTRICAL PLAN		X				
				A105	PROPOSED UPPER LEVEL FLOOR PLAN		X	S306	MAIN LEVEL MASONRY PLAN		X	E109	UPPER LEVEL ELECTRICAL PLAN		X				
				A106	PROPOSED LOWER LEVEL DEMO PLAN		X	S307	UPPER LEVEL MASONRY PLAN & MASONRY DETAILS		X								
				A107	PROPOSED MAIN LEVEL DEMO PLAN		X	S401	MAIN LEVEL PRECAST PLAN & FLOOR FRAMING PLAN		X								
				A108	PROPOSED UPPER LEVEL DEMO PLAN		X	S402	UPPER LEVEL PRECAST PLAN & FLOOR FRAMING PLAN		X								
				A201	EXISTING ELEVATIONS			S403	UPPER LEVEL CEILING FRAMING PLAN		X								
				A202	EXISTING ELEVATIONS			S404	MAIN LEVEL PRECAST POUR STOP PLAN		X								
				A203	PROPOSED ELEVATIONS		X	S405	UPPER LEVEL PRECAST POUR STOP PLAN		X								
				A204	PROPOSED ELEVATIONS			S406	POUR STOP DETAILS		X								
				A301	BASEMENT LEVEL FINISH & REFLECTIVE CEILING PLAN & FINISHES		X	S501	CROSS SECTIONS		X								
								S502	CROSS SECTION		X								
				A302	MAIN LEVEL FINISH & REFLECTIVE CEILING PLAN & FINISHES		X	S600	BASE PLATE PLAN		X								
								S601	MAIN LEVEL STEEL PLAN		X								
				A303	UPPER LEVEL FINISH & REFLECTIVE CEILING PLAN & FINISHES		X	S602	SECOND FLOOR STEEL PLAN		X								
								S603	ROOF LEVEL STEEL PLAN		X								
								S604	FRAME LINE ELEVATIONS		X								
								S605	FRAME LINE ELEVATIONS		X								
								S606	FRAME LINE ELEVATIONS		X								
								S701	ENTRY CANOPY PLANS		X								
								S702	ENTRY CANOPY SECTIONS		X								



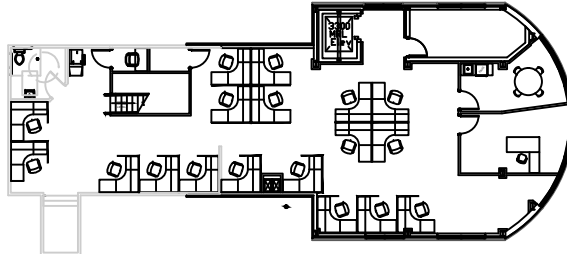
<u>PROJECT DESIGN CODES</u>		<u>FACILITY AREA SCHEDULE</u>		<u>ENGINEER & DESIGNERS CONTACT INFORMATION</u>		<u>CONSTRUCTION MANAGER CONTACT INFORMATION</u>	
2009 INTERNATIONAL BUILDING CODE			<u>EXISTING</u>	<u>PROPOSED</u>	<u>PROJECT ENGINEER:</u>		<u>PROJECT MANAGER:</u>
2009 INTERNATIONAL MECHANICAL CODE		LOWER LEVEL	5,415 SQ.FT.	6,857 SQ.FT.	SCOTT CHYKO P.E.		GEORGE MURPHY
2009 INTERNATIONAL PLUMBING CODE		MAIN LEVEL	5,431 SQ.FT.	6,660 SQ.FT.	OFFICE: 608.348.5355		MOBILE: 563.581.6175
2009 INTERNATIONAL FUEL GAS CODE		UPPER LEVEL	1,1802 SQ.FT.	2,935 SQ.FT.	E-MAIL: scott@delta3eng.biz		E-MAIL: george@murphyconstructiongroup.com
2009 NATIONAL ELECTRICAL CODE					DELTA 3 ENGINEERING, INC		MURPHY CONSTRUCTION GROUP, LLC
2009 INTERNATIONAL FIRE CODE					875 SOUTH CHESTNUT STREET		4970 NORTHFRANCE COURT
WISCONSIN UNIFORM PLUMBING CODE					PLATTEVILLE, WI 53818		DUBUQUE, IA 52002
<u>CONTRACTOR NOTE !!!</u>							
ALL CONTRACTORS INVOLVED IN THE CONSTRUCTION OF THIS PROJECT							
MUST BE A LICENSED CONTRACTOR OR UNDER THE DIRECT							
SUPERVISION OF A LICENSED CONTRACTOR							
		TOTAL FACILITY		16,452 SQ.FT.			



PROPOSED LOWER LEVEL PLAN
SCALE: N.T.S.



PROPOSED MAIN LEVEL PLAN
SCALE: N.T.S.

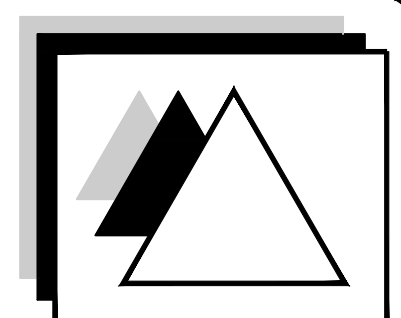


PROPOSED UPPER LEVEL PLAN
SCALE: N.T.S.

PSSI
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3681 PRISM LANE, KIELER, WI 53812

REVISIONS:		
NO.	DATE	DESCRIPTION
DC1	7/22/14	Structural steel revised
DC2	8/7/14	Space under stairs added to Janitor Closet
DC2	8/8/14	Sump pit added
DC2	8/8/14	Stairs moved 3' East
DC2	8/11/14	Wall moved 3' East
DC2	8/12/14	Alcove scuttle added
1	8/14/14	WDR NR NOI SUB
2	9/15/14	Minor schedule on north side
DC3	9/23/14	2nd floor steps, foot knock out
DC3	9/23/14	Structural steel revised
DC3	10/16/14	HR Office added
DC3	10/28/14	2nd floor steps and roof added to plan set
DC3	11/5/14	1st floor plate added to plan set
DC3	11/6/14	Structural steel revised
DC3	11/6/14	Lighting updated
3	11/6/14	Downspout #13 added
CC1	11/28/14	Elevation height updated
CC2	12/5/14	Elevation height updated
CC3	1/5/2015	Door & window changes, ceiling height changes, finish changes
CC-4	4/14/15	Finish changes
CC-5	4/23/15	Masonry base angle rev.

For Construction	
PROJECT NUMBER	D14-041
SHEET SCALE	N.T.S.
DRAWN BY	J.Ballie
DATE ISSUED	August 31, 2015
SHEET NUMBER	TITLE



DELTA 3 ENGINEERING INC

Professional Civil-Municipal & Structural Engineering, Grant Writing, Land Development Planning & CAD Services

875 South Chestnut Street
Platteville, Wisconsin 53818
Phone: (608) 348-5355
Fax: (608) 348-5455

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DC3
HR office added



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OFFICE REMODEL / ADDITION

3081 PRISM LANE, KIELER, WI 53012

CODE ANALYSIS SUMMARY

GENERAL INFORMATION	SECTION	NOTES
INTERNATIONAL BUILDING CODE 2009		
EXISTING BASEMENT LEVEL FACILITY SQUARE FOOTAGE:		5,416 SQ.FT.
EXISTING MAIN LEVEL FACILITY SQUARE FOOTAGE:		5,431 SQ.FT.
EXISTING UPPER LEVEL FACILITY SQUARE FOOTAGE:		1,180 SQ.FT.
PROPOSED BASEMENT LEVEL FACILITY SQUARE FOOTAGE:		6,867 SQ.FT.
PROPOSED MAIN LEVEL FACILITY SQUARE FOOTAGE:		6,860 SQ.FT.
PROPOSED UPPER LEVEL FACILITY SQUARE FOOTAGE:		2,835 SQ.FT.

USE & OCCUPANCY CLASSIFICATION	SECTION	NOTES
PROPOSED BASEMENT LEVEL FACILITY SQUARE FOOTAGE:	304	Business Group B
PROPOSED MAIN LEVEL FACILITY SQUARE FOOTAGE:	304	Business Group B
PROPOSED UPPER LEVEL FACILITY SQUARE FOOTAGE:	304	Business Group B

PROJECT BUILDING CONSTRUCTION, HEIGHT, & AREA	SECTION	NOTES
CONSTRUCTION TYPE:	602.5	Type V construction is that type of construction in which the structural elements, exterior walls and interior walls are of any materials permitted by code.
BUILDING HT.:	Proposed	39'
STORIES:	Actual	2 Stories with basement
ALLOWABLE HEIGHTS AND BUILDING AREA PER FLOOR:	TABLE 503	2 stories, 9,000 sq.ft. per story, and 47' building height

FIRE RESISTANCES	SECTION	NOTES
EXIT ENCLOSURE:	1002	1 Hour fire barrier construction required
EXIST ENCLOSURE PENETRATIONS:	TABLE 715.4	1 Hour protected opening - 100 square inches of glazing allowed per door

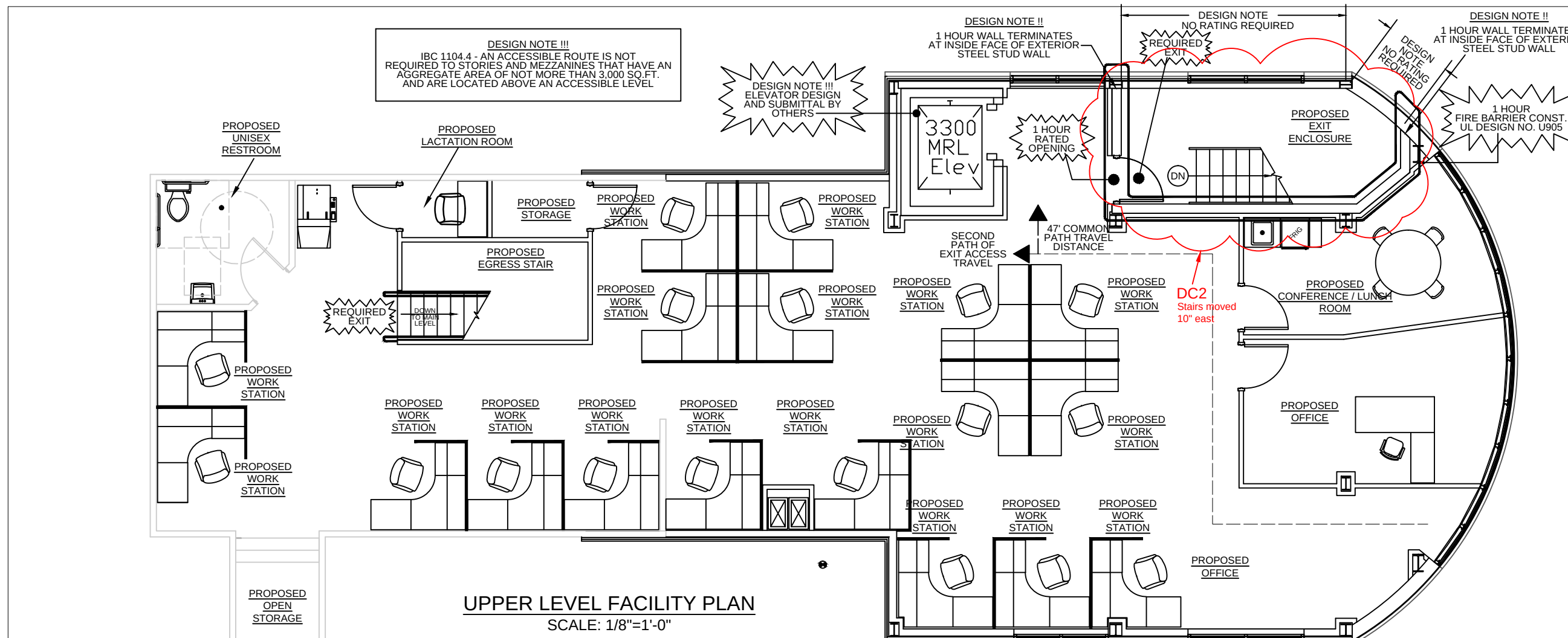
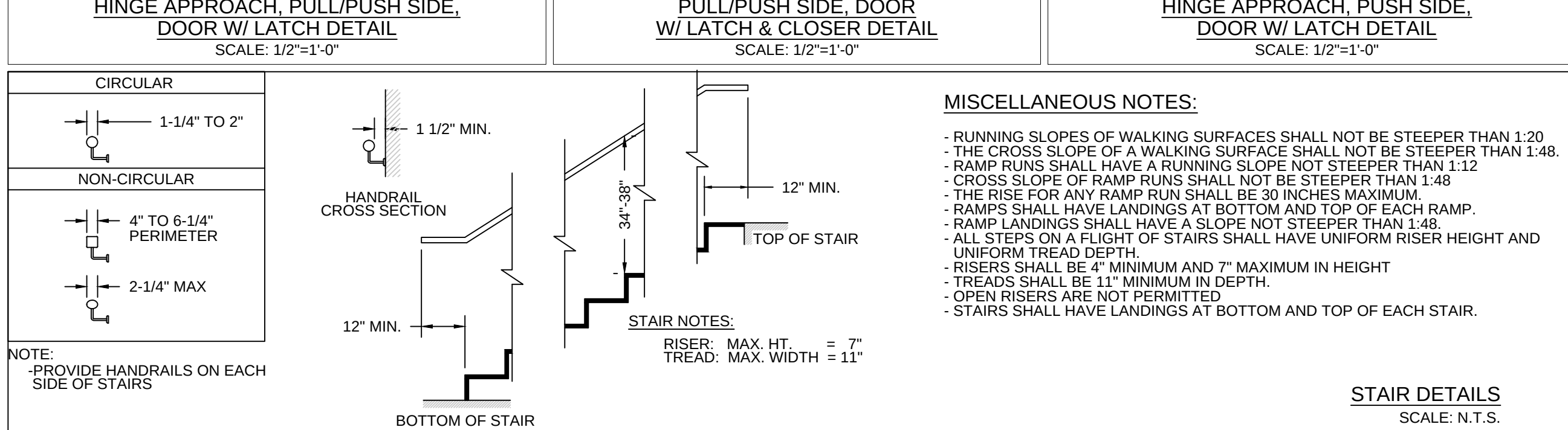
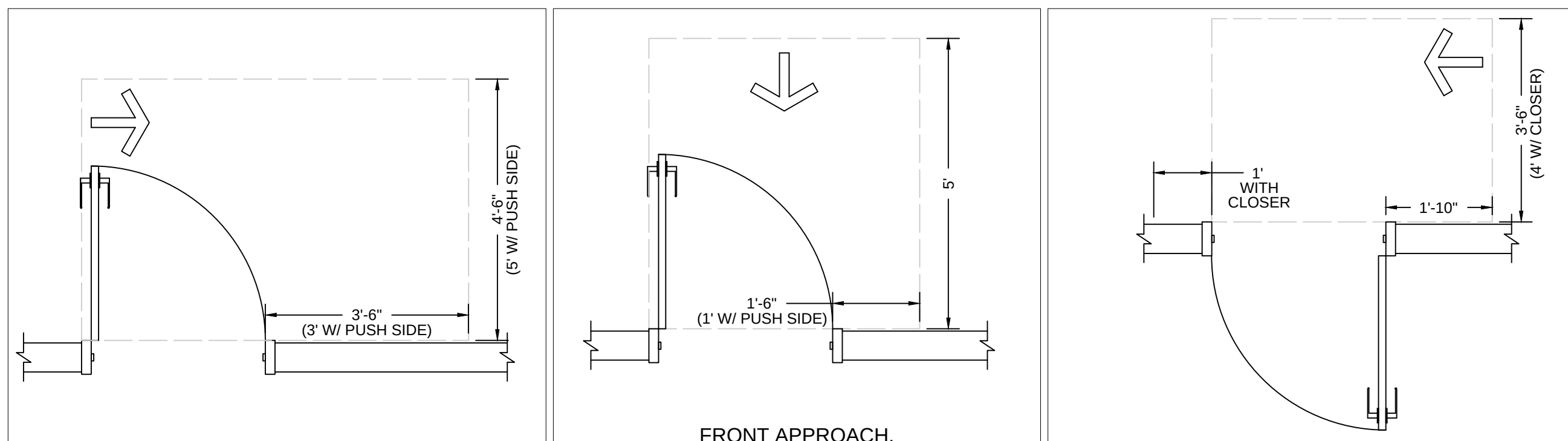
OCCUPANT LOAD CAPACITIES	SECTION	NOTES
BASEMENT LEVEL: (6,405 sq.ft. gross)	TABLE 1004.1.1	64 occupants - (Business Areas 100 gross) - Actual = 33 occupants
MAIN LEVEL: (6,455 sq.ft. gross)	TABLE 1004.1.1	64 occupants - (Business Areas 100 gross) - Actual = 33 occupants
UPPER LEVEL: (2,841 sq.ft. gross)	TABLE 1004.1.1	28 occupants - (Business Areas 100 gross) - Actual = 13 occupants
TOTAL OCCUPANTS ESTIMATED:		154 occupants - (Business Areas 100 gross) - Actual = 79 occupants

MEANS OF EGRESS	SECTION	NOTES
NUMBER OF EXITS REQUIRED:		
BASEMENT:	1015.1	2 Exits required - Common path of egress exceeds 75' allowable
MAIN LEVEL:	1015.1	2 Exits required - Common path of egress exceeds 75' allowable
UPPER LEVEL:	1015.1	2 Exits required - Common path of egress exceeds 100' allowable
REQUIRED EGRESS WIDTHS		
BASEMENT:	1006.1	36" walk doors required at each exit
MAIN LEVEL:	1006.1	36" walk doors required at each exit
UPPER LEVEL:	1006.1	36" walk doors required at each exit
MAXIMUM EXIT TRAVEL DISTANCE	Table 1016.1	200' without sprinkler system

FIRE SUPPRESSION SYSTEM	SECTION	NOTES
Sprinkler Not Required in facility		

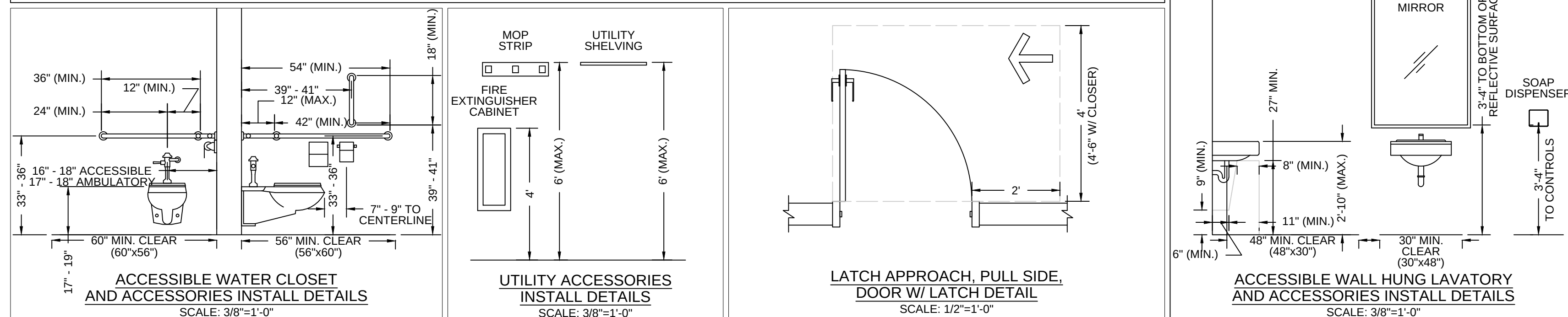
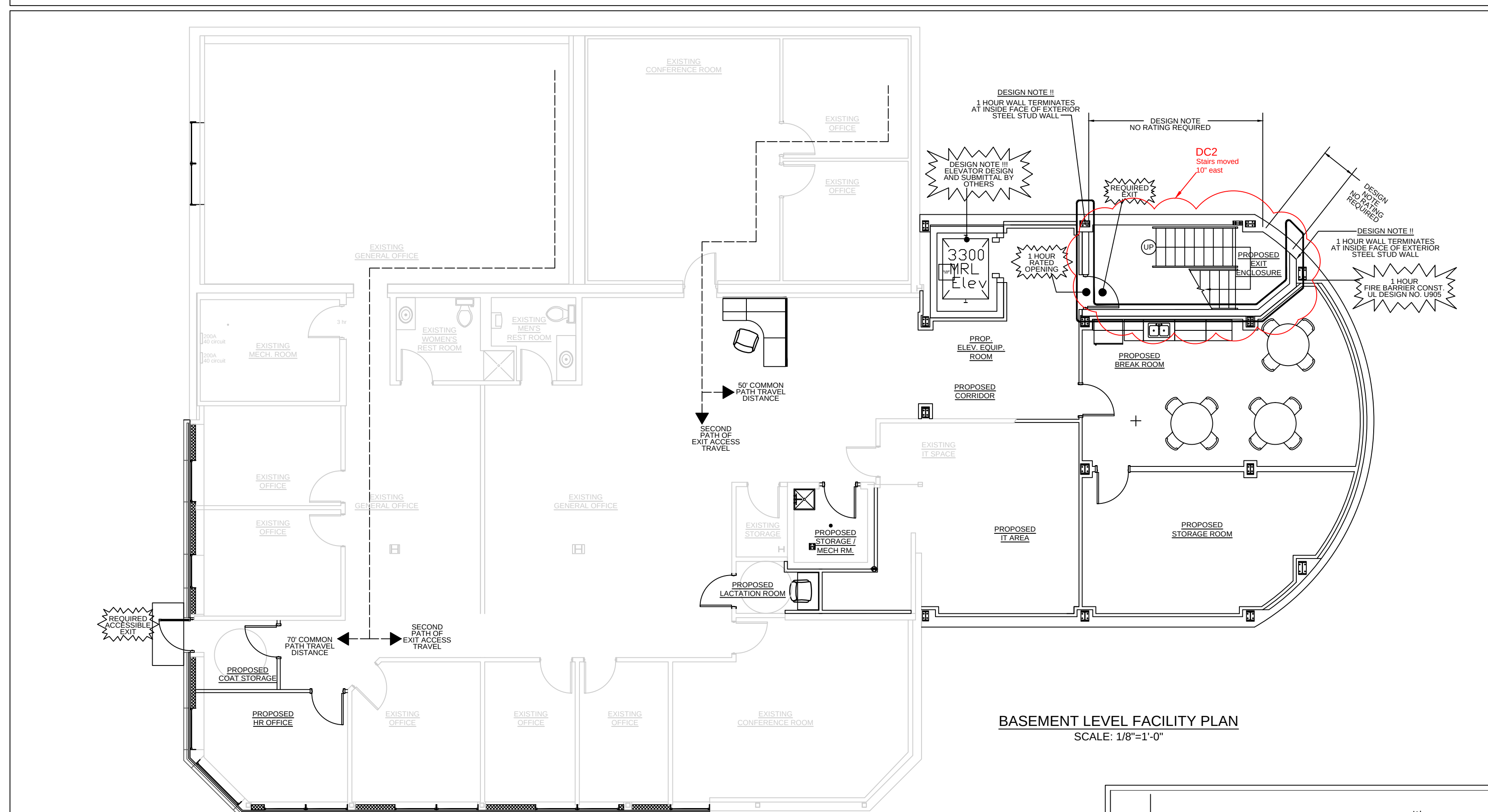
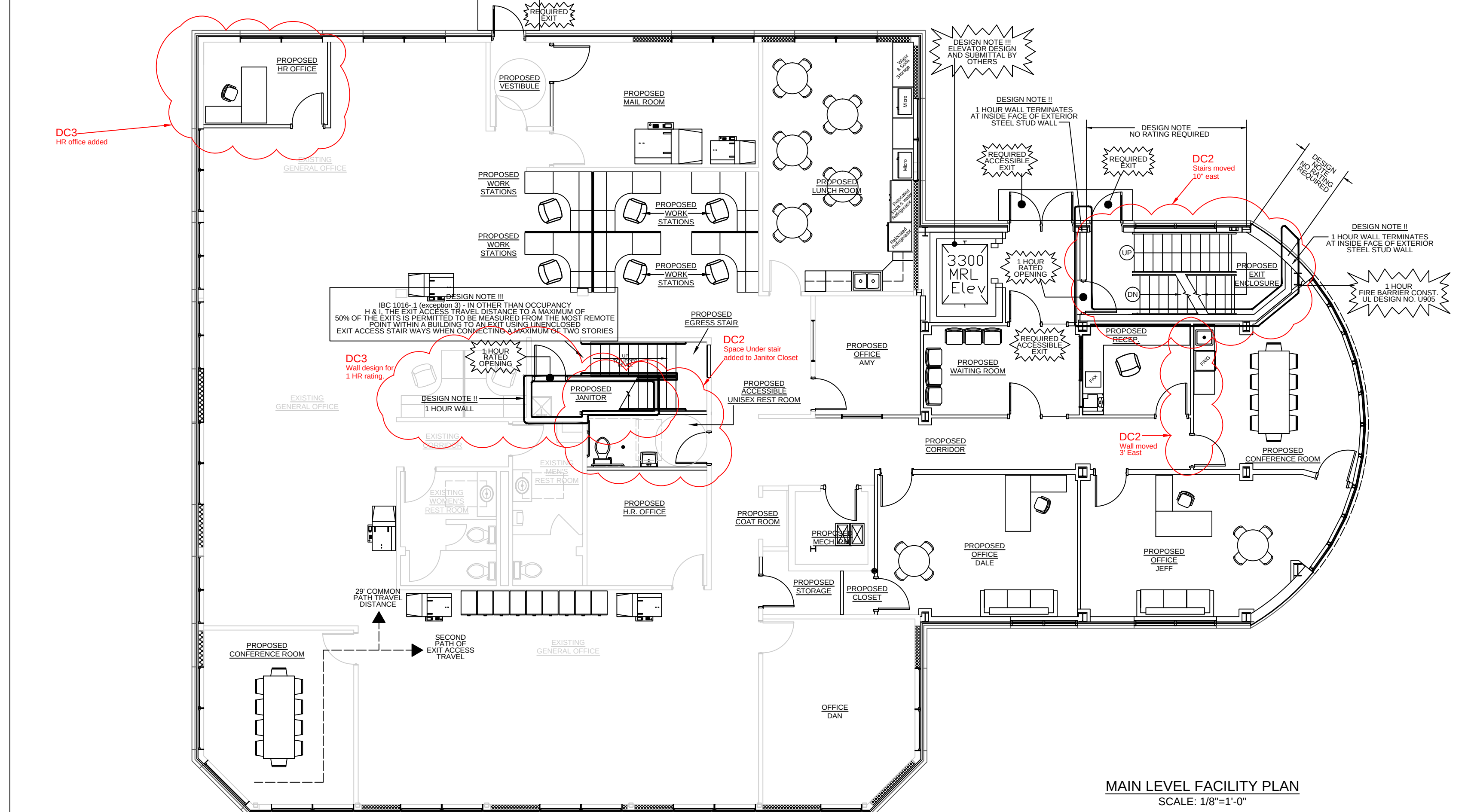
PLUMBING FIXTURES	REQUIRED	PROPOSED	SECTION	NOTES
MEN				
URINALS	0	1	TABLE 2902.1	
WATER CLOSETS	2	3	TABLE 2902.1	
SHOWERS	0	0	TABLE 2902.1	
WOMEN				
WATER CLOSETS	2	4	TABLE 2902.1	
SHOWERS	0	0	TABLE 2902.1	
FACILITY				
LAVATORIES	2	6	TABLE 2902.1	
DRINKING FOUNTAINS	2	2	TABLE 2902.1	Tap Water at Sinks
SERVICE SINKS	1	2	TABLE 2902.1	

TABLE 402.1.1 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT *											
CLIMATE ZONE	FENESTRATION U-FACTOR	GLAZED FENESTRATION SHGC	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT WALL R-VALUE	SHAF T R-VALUE	CRAWL SPACE WALL R-VALUE	CHIMNEY WALL R-VALUE	FOR SI: 1 FOOT = 304.8 MM.
1	0.15	0.75	0.30	30	13	34	13	0	0	0	a. R-VALUES ARE MINIMUMS. U-FACTORS AND SHGC ARE MAXIMUMS. R-19 BATTS COMPRESSED INTO A NOMINAL 2 x 6 FRAMING CAVITY SUCH THAT THE R-VALUE IS REDUCED BY R-1 OR MORE SHALL BE MARKED WITH THE COMPRESSED BATT R-VALUE IN ADDITION TO THE FULL THICKNESS R-VALUE.
2	0.05	0.75	0.30	30	13	46	13	0	0	0	b. THE FENESTRATION U-FACTOR COLUMN EXCLUDES SKYLIGHTS. THE SHGC COLUMN APPLIES TO ALL GLAZED FENESTRATION.
3	0.05	0.65	0.30	30	13	58	19	0	0	0	c. "15/19" MEANS R-15 CONTINUOUS INSULATED SHEATHING ON THE INTERIOR OR EXTERIOR OF THE HOME OR R-19 CAVITY INSULATION AT THE INTERIOR OF THE BASEMENT WALL. "15/19" SHALL BE PERMITTED TO BE MET WITH R-13 CAVITY INSULATION ON THE INTERIOR OF THE BASEMENT WALL PLUS R-3 CONTINUOUS INSULATED SHEATHING ON THE INTERIOR OR EXTERIOR OF THE HOME. "10/17" MEANS R-10 CONTINUOUS INSULATED SHEATHING ON THE INTERIOR OR EXTERIOR OF THE HOME OR R-13 CAVITY INSULATION AT THE INTERIOR OF THE BASEMENT WALL.
4 EXCEPT S AND D	0.35	0.60	NR	38	13	5/10	19	10/13	10/2.8	10/13	d. R-5 SHALL BE ADDED TO THE REQUIRED SLAB EDGE R-VALUES FOR HEATED SLABS. INSULATION DEPTH SHALL BE THE DEPTH OF THE FOOTING OR 2 FEET, WHICHEVER IS LESS IN ZONES 1 THROUGH 3 FOR HEATED SLABS.
5 AND D	0.35	0.60	NR	38	20 OR 13+5	13/17	30*	10/13	10/2.8	10/13	e. THERE ARE NO SHGC REQUIREMENTS IN THE MARINE ZONE.
6	0.35	0.60	NR	49	20 OR 13+5	15/19	30*	15/19	10/4.8	15/13	f. BASEMENT WALL INSULATION IS NOT REQUIRED IN WARM-HUMID LOCATIONS AS DEFINED BY FIGURE 301.1 AND TABLE 301.1.
7 AND 8	0.35	0.60	NR	49	21	19/21	30*	15/19	15/4.8	19/13	g. OR INSULATION SUFFICIENT TO FILL THE FRAMING CAVITY, R-19 MINIMUM.



REVISIONS:		
NO.	DATE	DESCRIPTION
DC2	8/7/14	Space under stairs added to Janitor Closet
DC2	8/8/14	Stairs moved 10' East
DC2	8/11/14	Wall moved 3' East
DC3	10/28/14	HR Office added
DC3	11/4/14	Janitor Closet room made 1 HR rated.

For Construction	
PROJECT NUMBER	D14-041
SHEET SCALE	AS NOTED
DRAWN BY	J. Baile
DATE ISSUED	August 31, 2015
SHEET NUMBER	A001



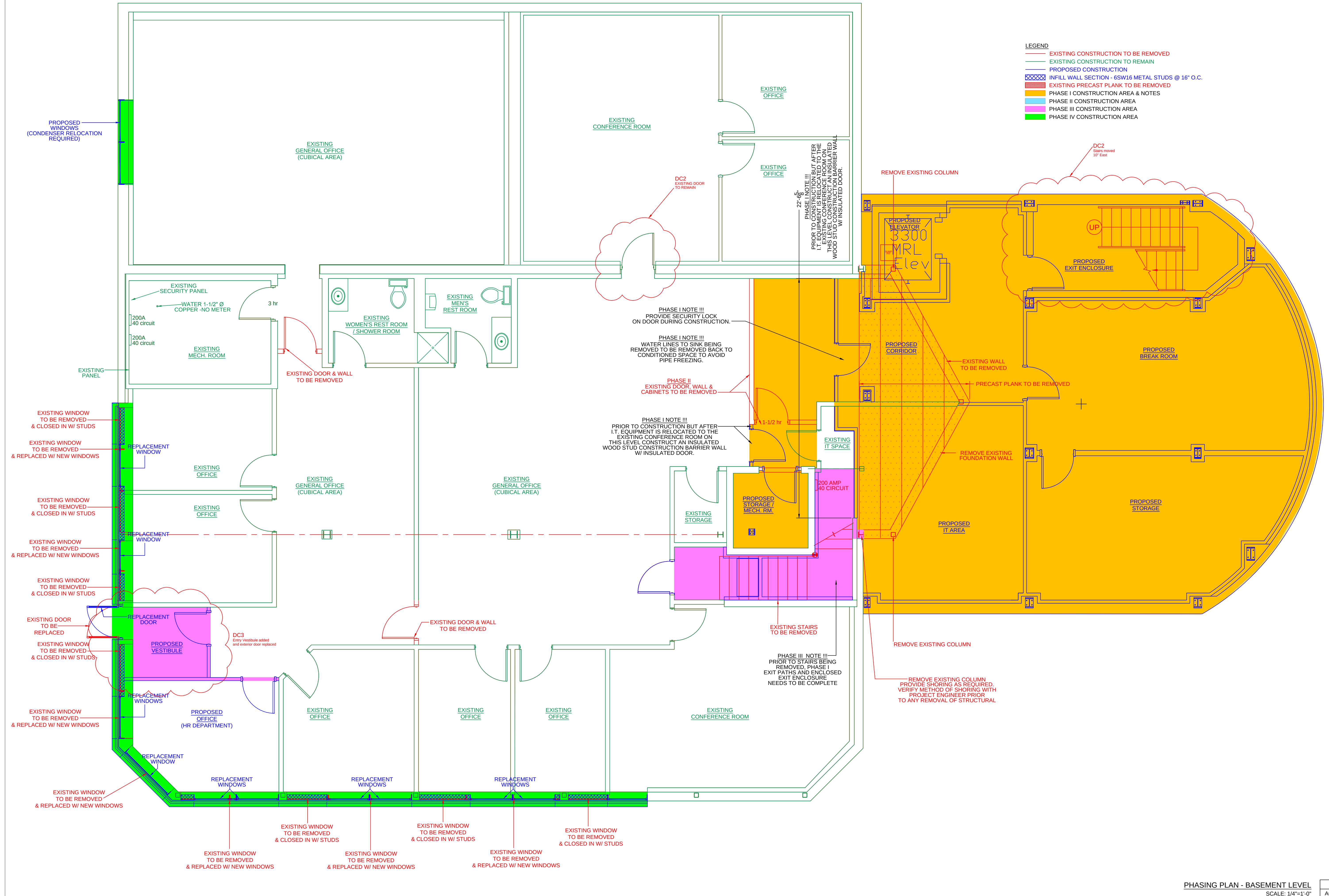


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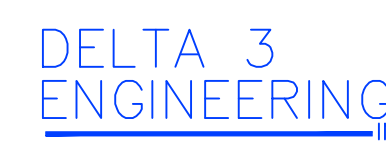
PSSI
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3681 PRISM LANE, KIELER, WI 53812

[illegible]

PROJECT NUMBER	D14-041
SHEET SCALE	1/4" = 1'-0"
DRAWN BY	T. SCHROEDER
DATE ISSUED	August 31, 2015
SHEET NUMBER	A002



G:\Projects\2014\14-041 Kaisers 2014 Office Addition\CAD\Arch\A002, A003, A004 - Phasing Plans.dwg, A002, 2/25/2016 2:26:26 PM, leiboldj



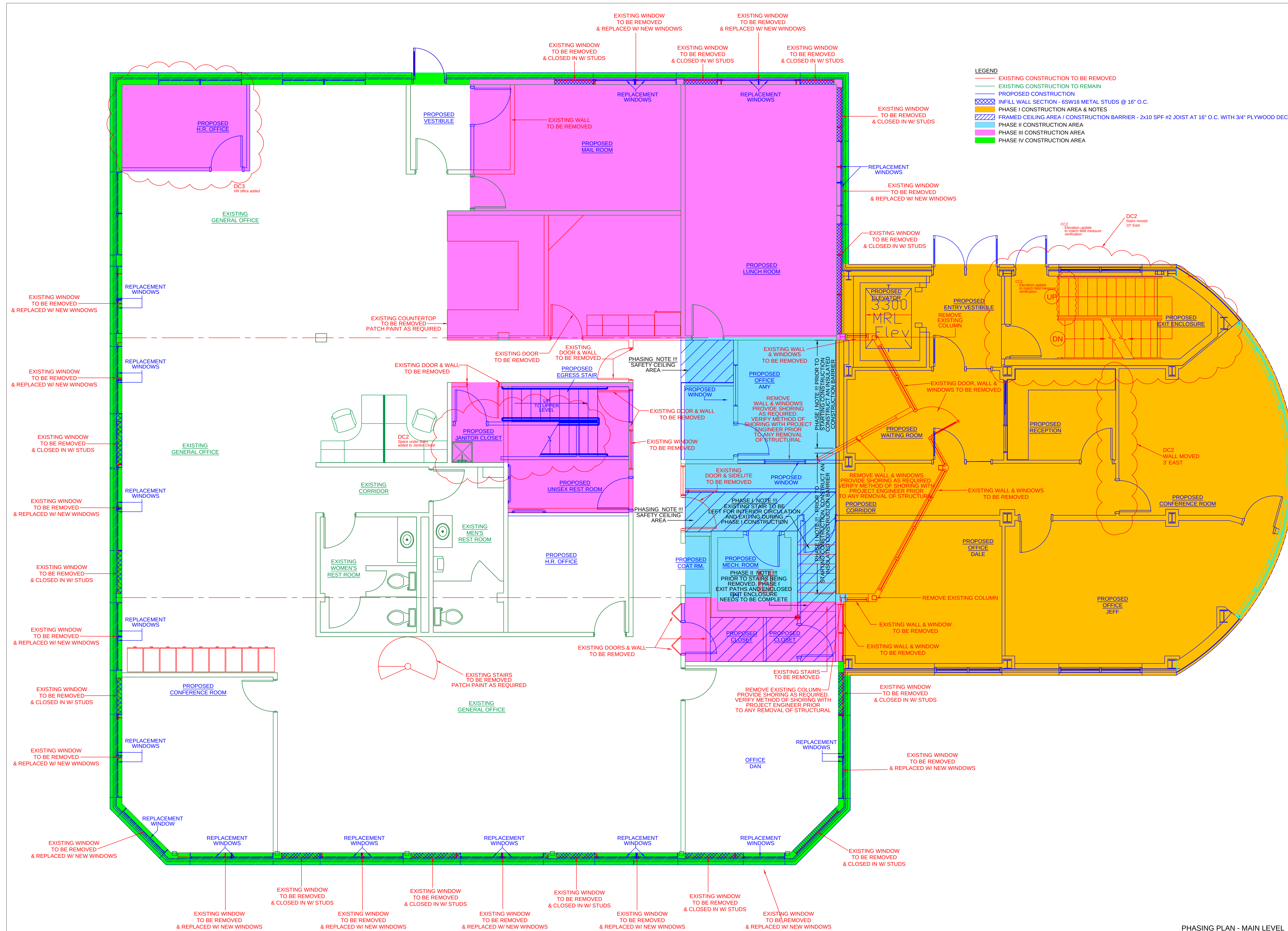
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[illegible]

For Construction	
PROJECT NUMBER	D14-041
SHEET SCALE	1/4" = 1'-0"
DRAWN BY	T. SCHROEDER
DATE ISSUED	August 31, 2015
SHEET NUMBER	A003



PHASING PLAN - MAIN LEVEL
SCALE: 1/4"=1'-0"

A003



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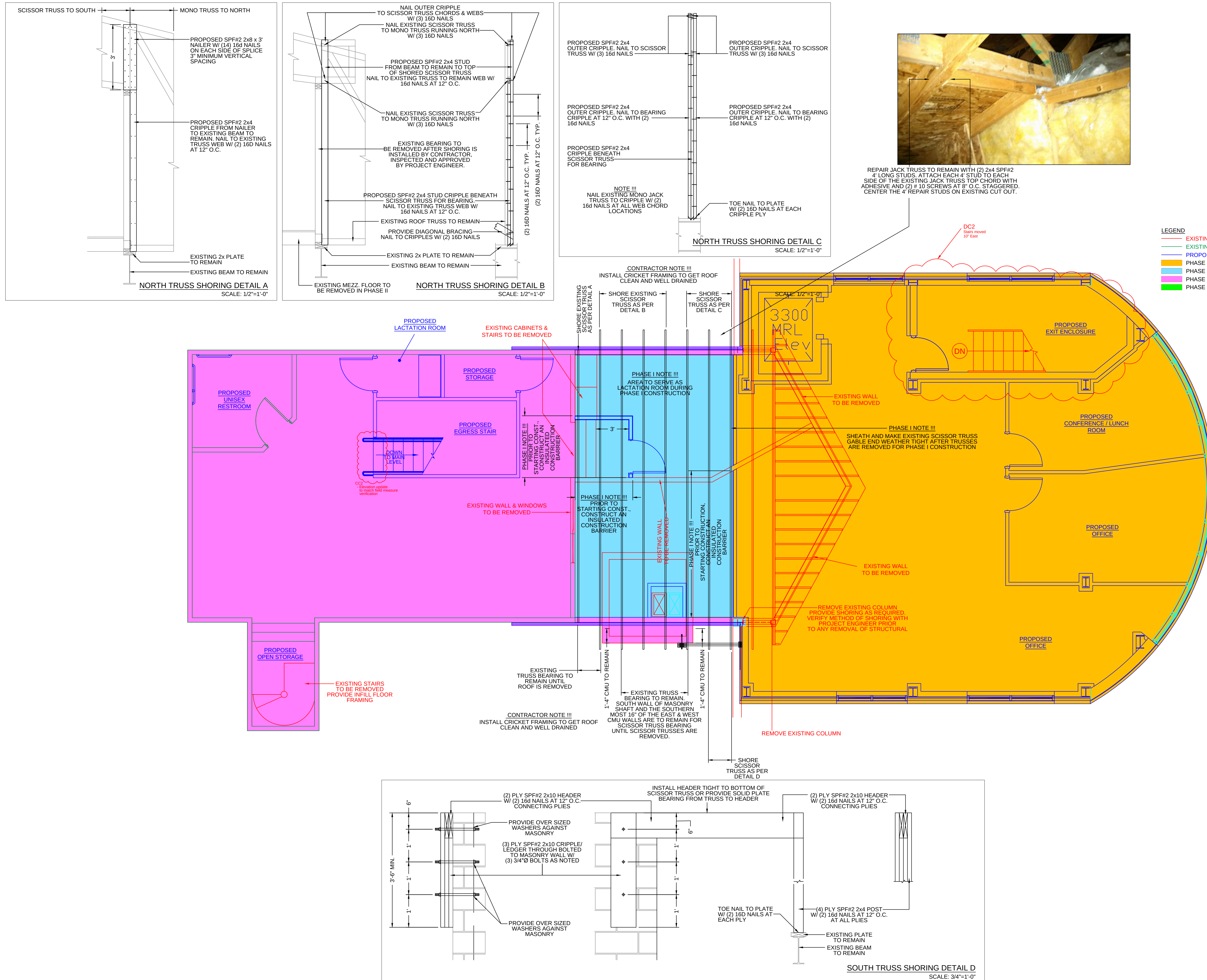
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[illegible]

For Construction

PROJECT NUMBER	D14-041
SHEET SCALE	1/4" = 1'-0"
DRAWN BY	T. SCHROEDER
DATE ISSUED	August 31, 2015
SHEET NUMBER	A004





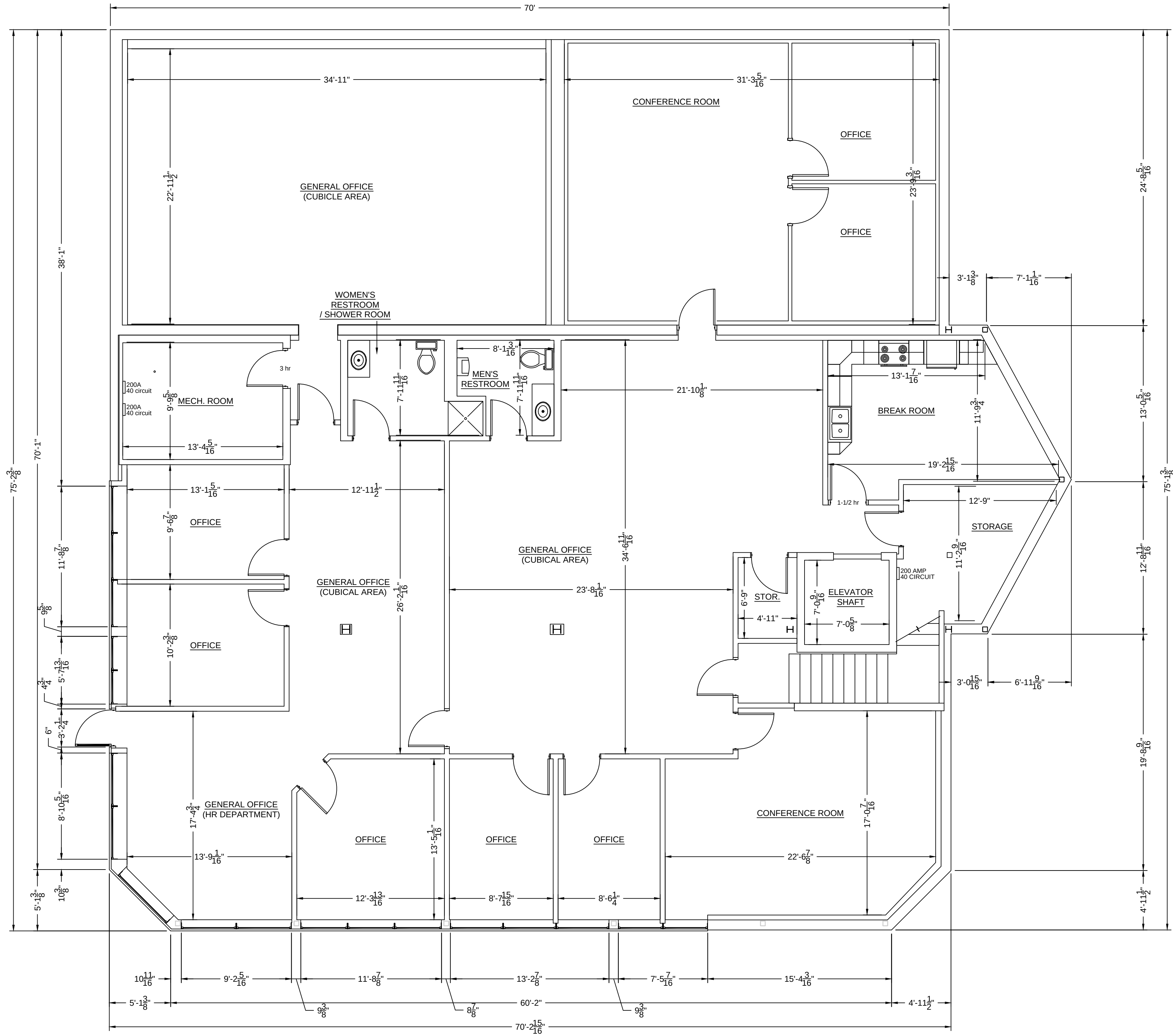
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[illegible]

PROJECT NUMBER	D14-041
SHEET SCALE	3/16" = 1'-0"
DRAWN BY	J.Baillie
DATE ISSUED	August 31, 2015

SHEET NUMBER **A101**



EXISTING BASEMENT LEVEL FLOOR PLAN - 5,415 SQ.FT.
SCALE: 3/16"=1'-0"



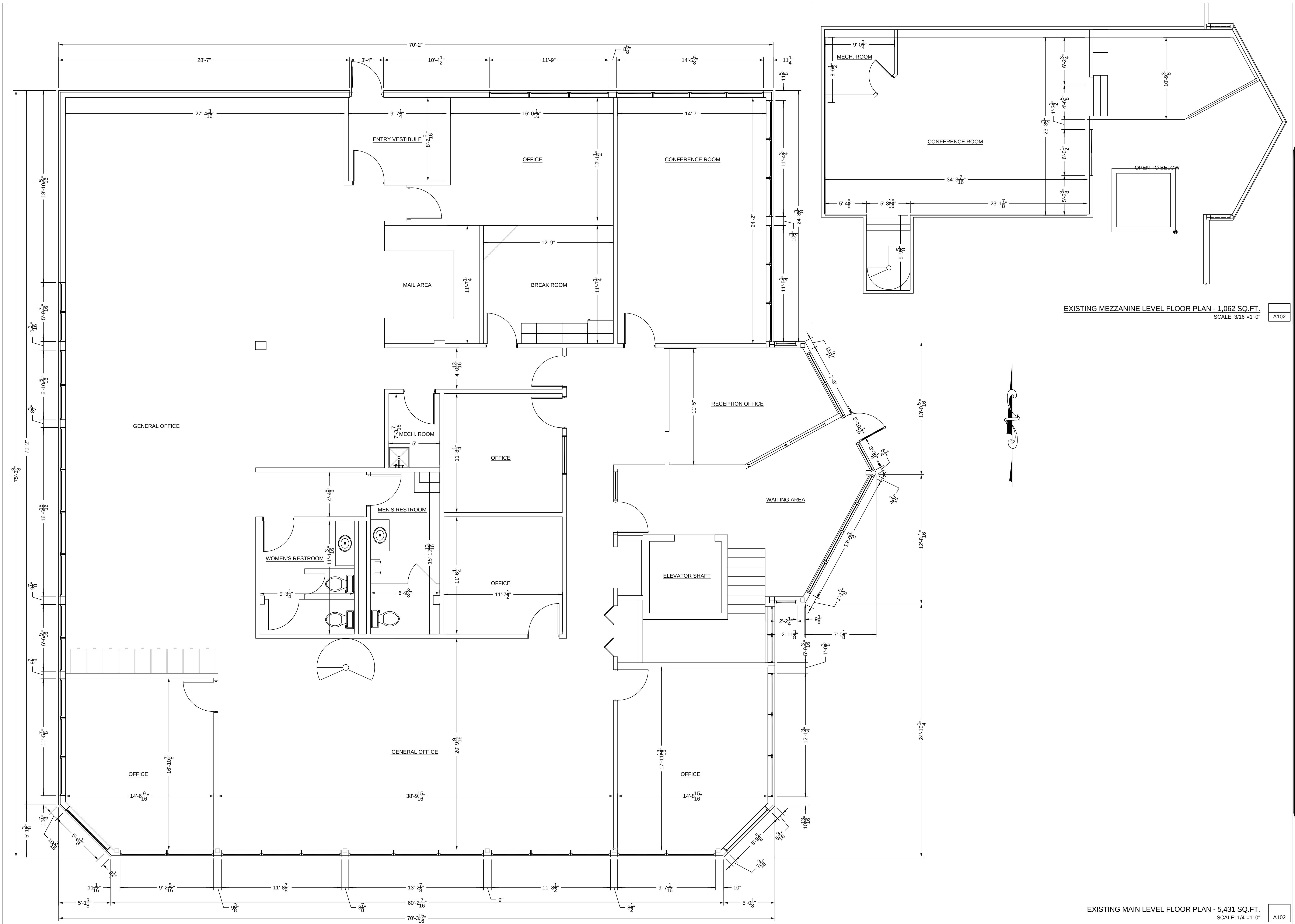
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PROJECT NUMBER	D14-041
SHEET SCALE	AS NOTED
DRAWN BY	J.Bailie
DATE ISSUED	August 31, 2015

SHEET
NUMBER

A102





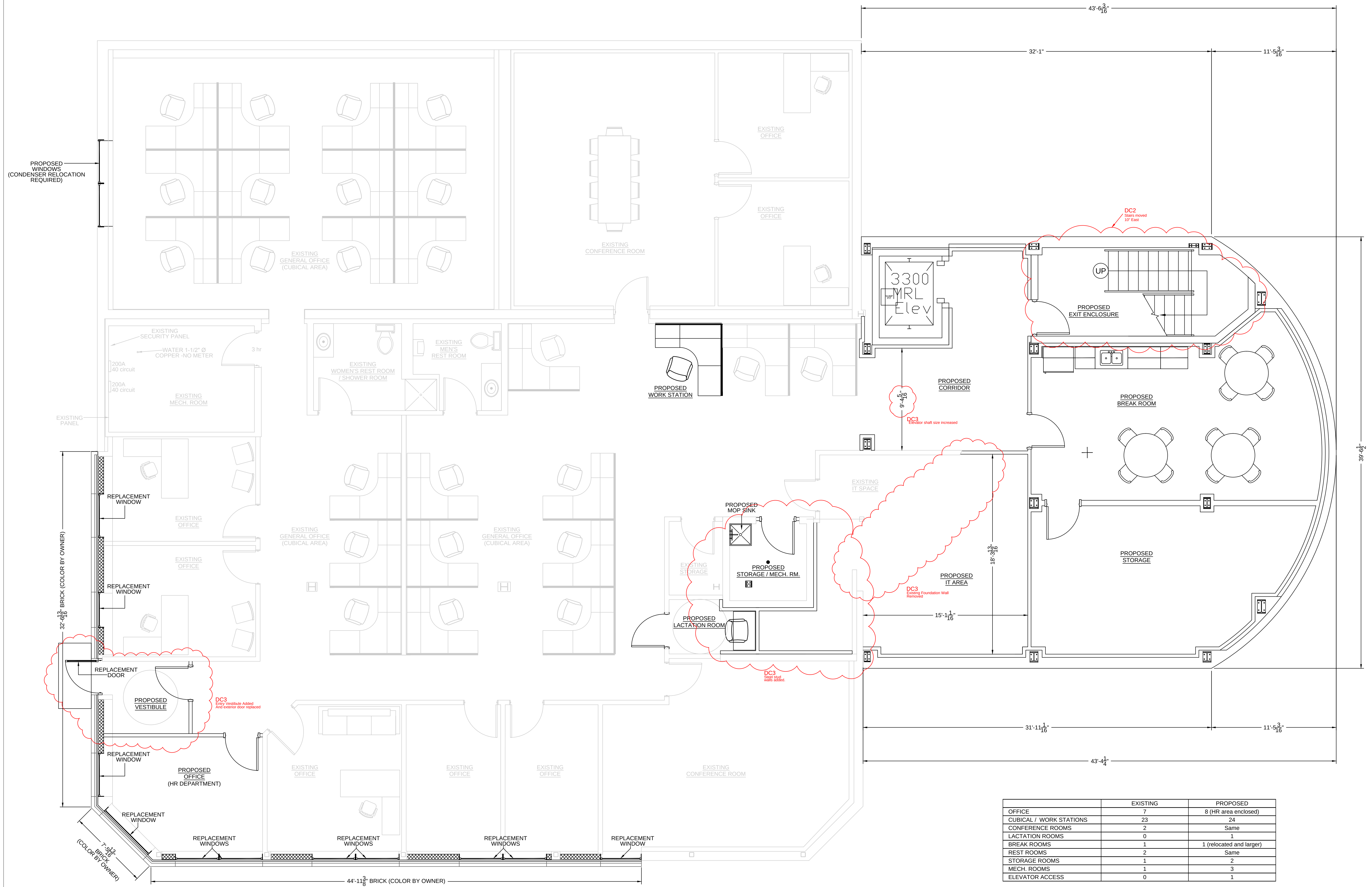
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OFFICE REMODEL / ADDITION

[illegible]

For Construction

PROJECT NUMBER	D14-041
SHEET SCALE	1/4" = 1'-0"
DRAWN BY	J.Baillie
DATE ISSUED	August 31, 2015
SHEET NUMBER	A103



	EXISTING	PROPOSED
OFFICE	7	8 (HR area enclosed)
CUBICAL / WORK STATIONS	23	24
CONFERENCE ROOMS	2	Same
LACTATION ROOMS	0	1
BREAK ROOMS	1	1 (relocated and larger)
REST ROOMS	2	Same
STORAGE ROOMS	1	2
MECH. ROOMS	1	3
ELEVATOR ACCESS	0	1

PROPOSED BASEMENT FLOOR PLAN - 6,857 SQ.FT.
SCALE: 1/4"=1'-0"

A103



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For Construction	
PROJECT NUMBER	D14-041
SHEET SCALE	1/4" = 1'-0"
DRAWN BY	J.Baillie
DATE ISSUED	August 31, 2015
SHEET NUMBER	A104





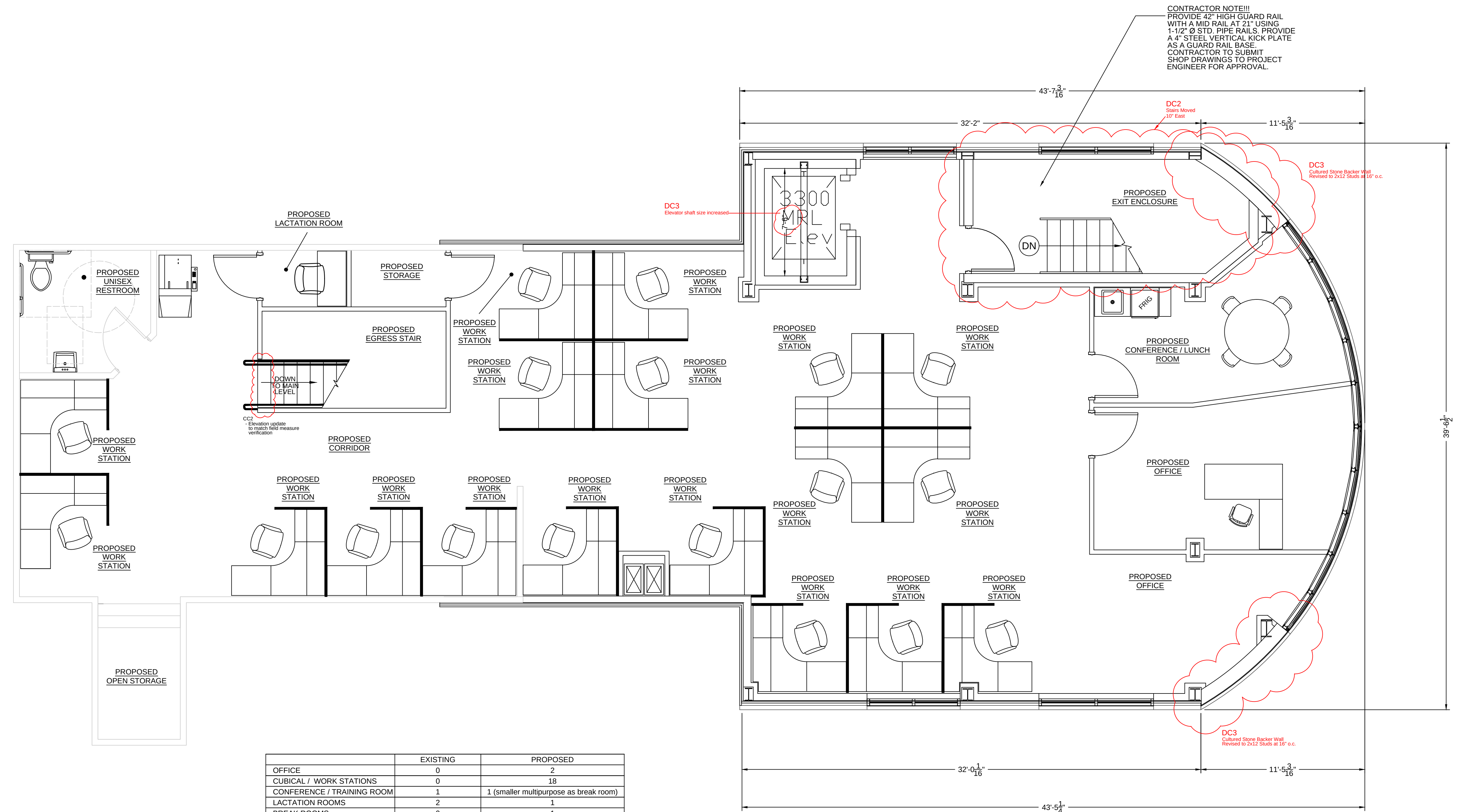
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PROJECT NUMBER	D14-041
SCALE	1/4" = 1'-0"
DRAWN BY	J.Bailie
DATE	August 31, 2015

A105



	EXISTING	PROPOSED
OFFICE	0	2
CUBICAL / WORK STATIONS	0	18
CONFERENCE / TRAINING ROOM	1	1 (smaller multipurpose as break room)
LACTATION ROOMS	2	1
BREAK ROOMS	0	1
REST ROOMS	0	1
STORAGE ROOMS	0	1
MECH. ROOMS	1	0
ELEVATOR ACCESS	0	1

PROPOSED UPPER LEVEL FLOOR PLAN - 2,935 SQ.FT.
SCALE: 1/4"=1'-0"

105

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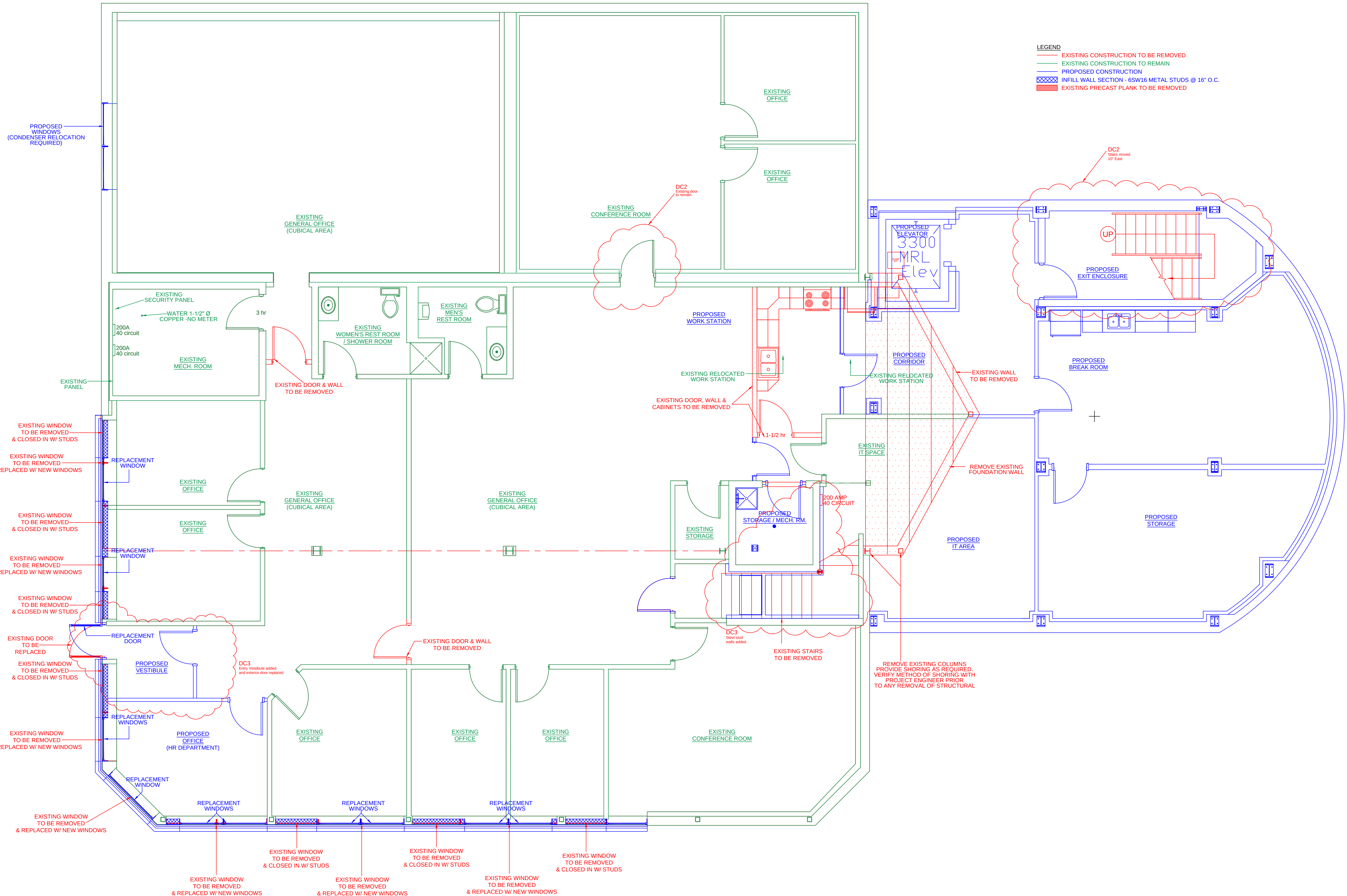


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[illegible]

PROJECT NUMBER	D14-041
SHEET SCALE	1/4" = 1'-0"
DRAWN BY	T. SCHROEDER
DATE ISSUED	August 31, 2015
SHEET NUMBER	A106



PROPOSED BASEMENT LEVEL DEMO PLAN
SCALE: 1/4"=1'-0"

A106



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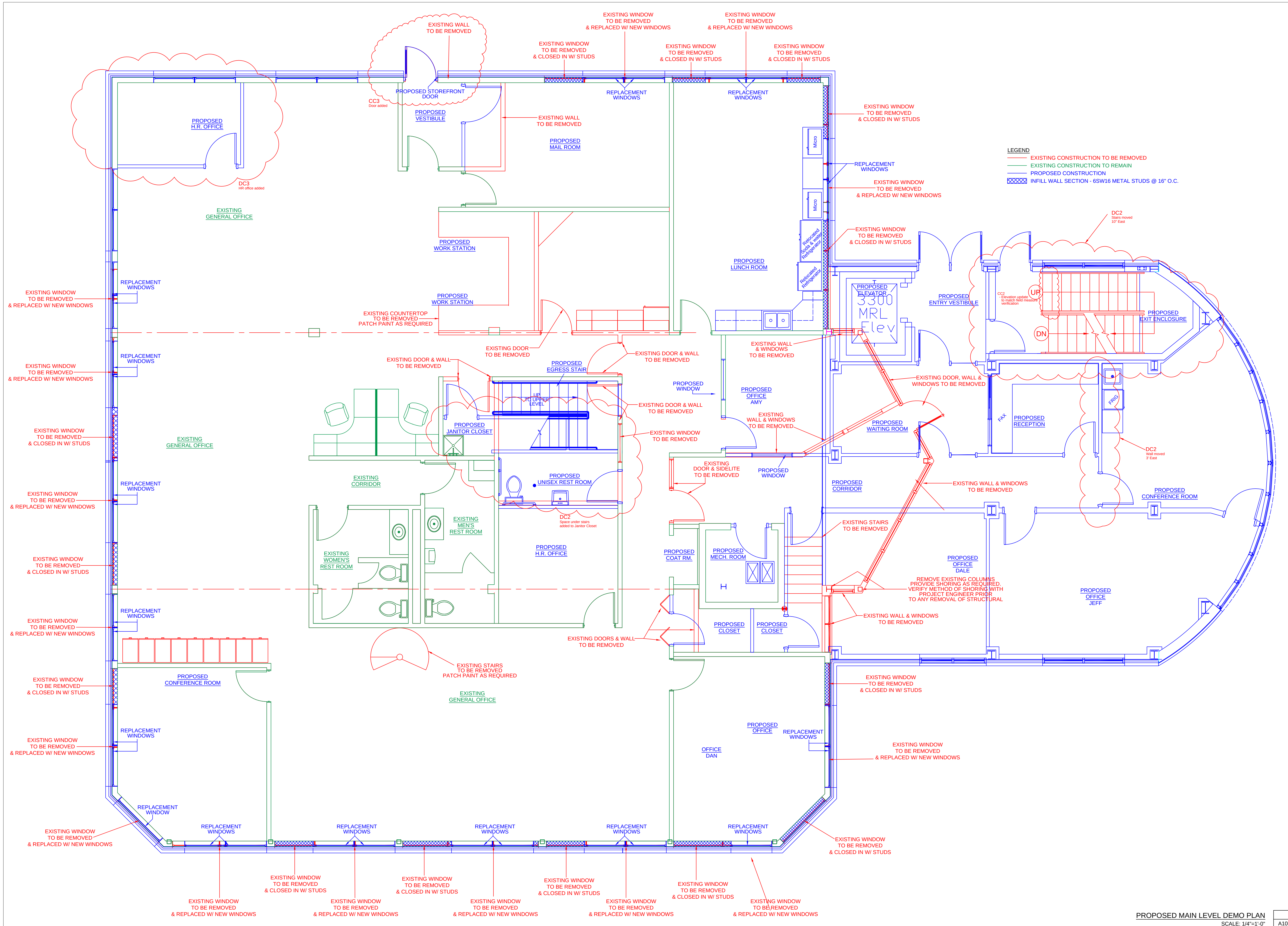
OFFICE REMODEL / ADDITION

[illegible]

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LECT ER	D14-041
ET LE	1/4" = 1'-0"
WN Y	T. SCHROEDER
TE ED	August 31, 2015
ET ER	A107

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PROPOSED MAIN LEVEL DEMO PLAN
SCALE: 1/4"=1'-0"

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

107



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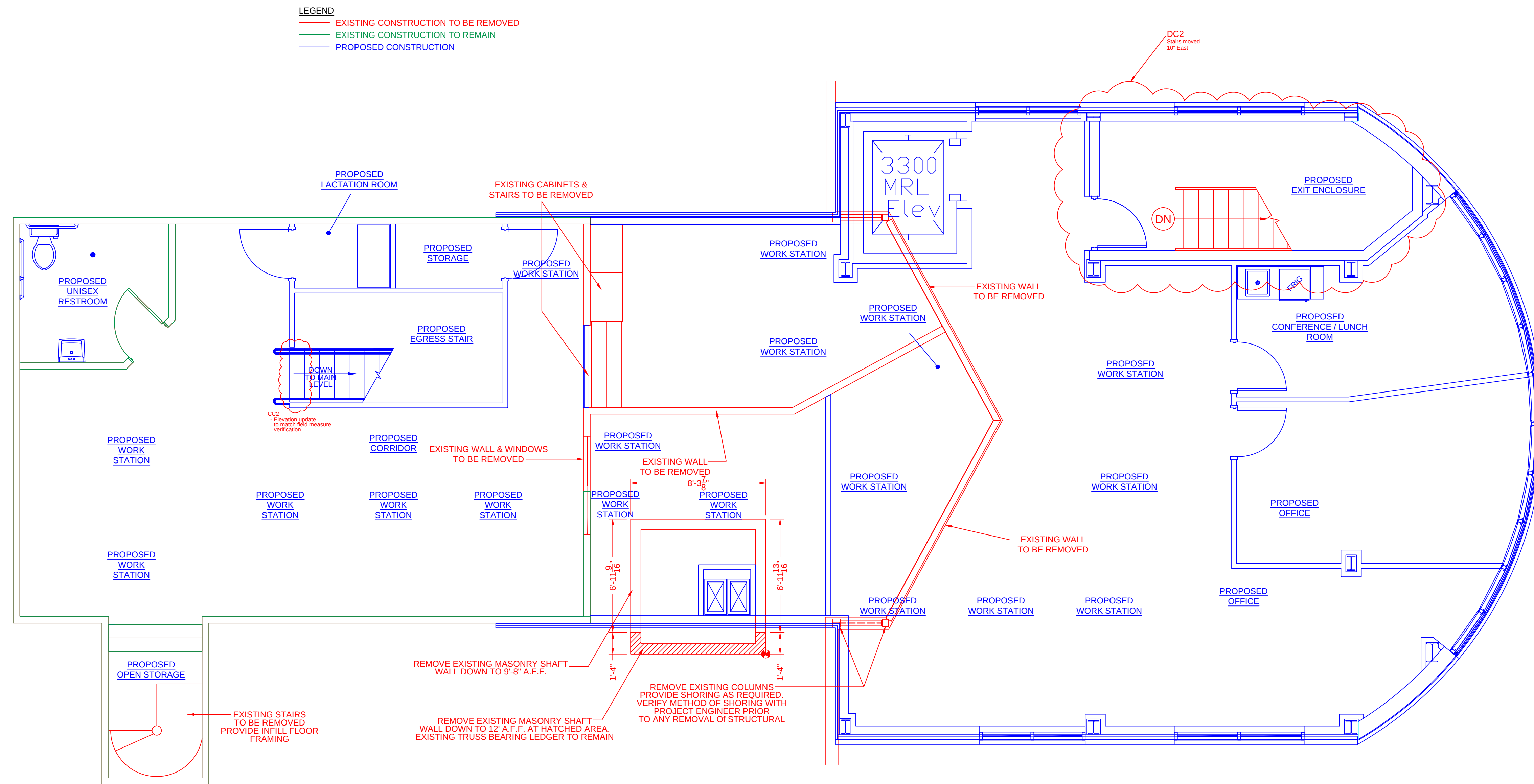
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[illegible]

PROJECT NUMBER	D14-041
SHEET SCALE	1/4" = 1'-0"
DRAWN BY	T. SCHROEDER
DATE ISSUED	August 31, 2015

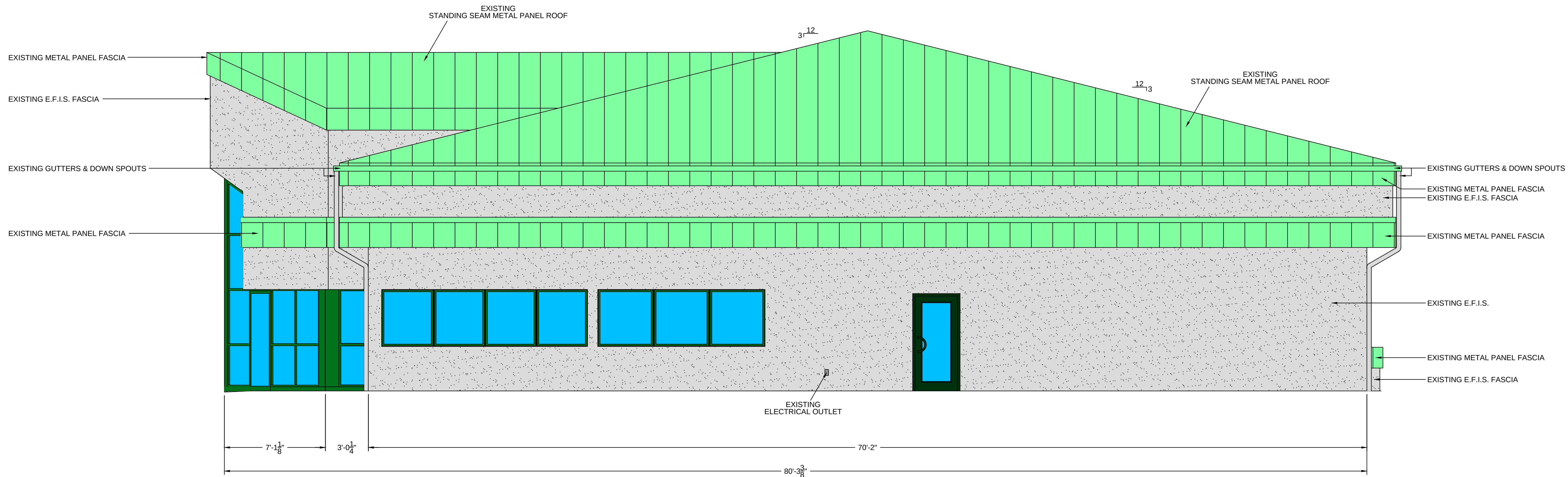
SHEET NUMBER | A108



PROPOSED UPPER LEVEL DEMO PLAN
SCALE: 1/4"=1'-0"

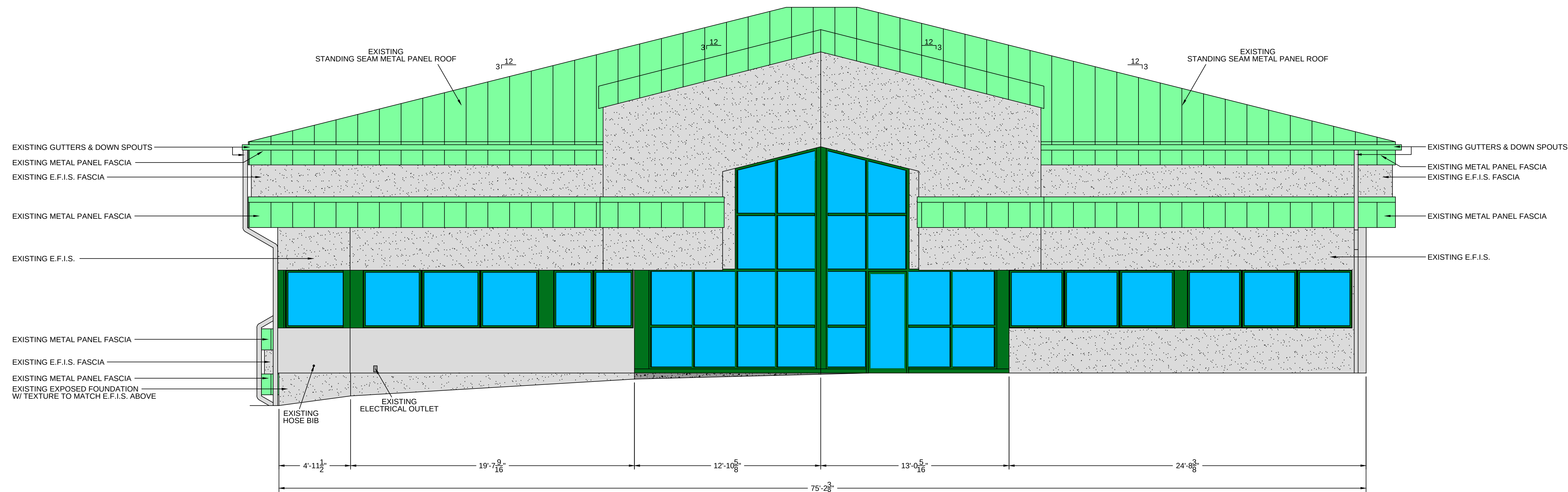
A108	
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EXISTING NORTH ELEVATION
SCALE: 1/4"=1'-0"

A201

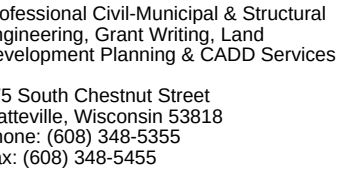


EXISTING EAST ELEVATION
SCALE: 1/4"=1'-0"

A201

[illegible]

For Construction	
PROJECT NUMBER	D14-041
SHEET SCALE	1/4" = 1'-0"
DRAWN BY	J.Baillie
DATE ISSUED	August 31, 2015
SHEET NUMBER	A201



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PROJECT NUMBER	D14-041
SHEET SCALE	1/4" = 1'-0"
DRAWN BY	J.Baillie
DATE ISSUED	August 31, 2015
SHEET NUMBER	A202



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A203



A203

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ECT BER	D14-041
ET LE	AS NOTED
WN y	J.Bailie
TE ED	August 31, 2015
ET BER	A203



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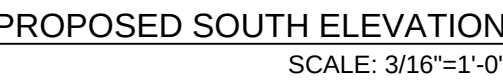
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PSSI
OFFICE REMODEL / ADDITION

[illegible]

For Construction

JECT BER	D14-041
ET LE	AS NOTED
WN y	J.Bailie
TE ED	August 31, 2015
ET BER	A204



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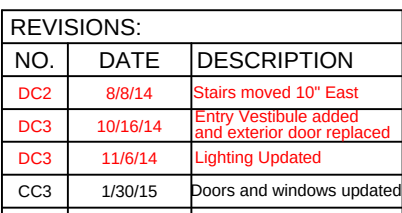
SINGLE GLAZED		DOUBLE GLAZED		GLAZED BLOCK
CLEAR	TINTED	CLEAR	TINTED	
0.8	0.7	0.7	0.6	
0.6				

NOTES:
-WINDOW FRAME FINISH & COLOR TO BE CHOSEN BY OWNER.

NOTES:
-DOOR HINGES & HARDWARE COLOR TO BE CHOSEN BY OWNER
-DOOR STAIN COLOR TO BE CHOSEN BY OWNER.

NOTES:
-DOOR HINGES & HARDWARE COLOR TO BE CHOSEN BY OWNER
-DOOR STAIN COLOR TO BE CHOSEN BY OWNER.

NOTES:
-EXISTING FINISHES TO REMAIN U.N.O.

[illegible]

For Construction	
PROJECT NUMBER	D14-041
SHEET SCALE	3/16"=1'-0"
DRAWN BY	J. PERRIN
DATE ISSUED	August 31, 2015
SHEET NUMBER	A301

Figure 10-10 consists of six diagrams labeled A through F, illustrating thermal expansion and contraction in various frame structures. Diagrams A, B, and C are arranged in a row at the top, while D, E, and F are arranged in a row at the bottom. Each diagram shows a frame with a central vertical member and two horizontal members on either side. The dimensions of the frame are indicated by arrows and text. In all diagrams, the vertical dimension is 4 inches. The horizontal dimension is 2 inches for A, B, and C, and 2 inches for D, E, and F. The material of the frame is specified: METAL for A and D, and ALUM. (Aluminum) for B, C, E, and F. Arrows indicate the direction of expansion or contraction: vertical arrows pointing up and down, and horizontal arrows pointing left and right. In diagrams A, B, and C, the vertical arrows are labeled '4" METAL', '4" ALUM.', and '4" ALUM.' respectively. In diagrams D, E, and F, the vertical arrows are labeled '4" METAL', '4" ALUM.', and '4" ALUM.' respectively. In diagrams A, B, and C, the horizontal arrows are labeled '2" METAL', '2" ALUM.', and '2" ALUM.' respectively. In diagrams D, E, and F, the horizontal arrows are labeled '2" METAL', '2" ALUM.', and '2" ALUM.' respectively. The diagrams show that thermal expansion and contraction occur in all directions, and the magnitude of the expansion or contraction depends on the material and the dimensions of the frame.

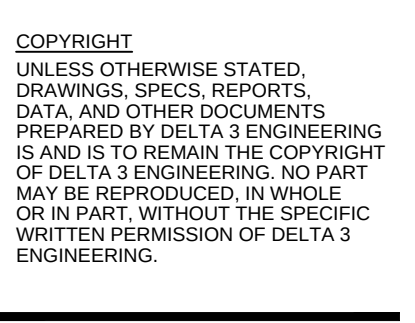
DC3
HR OFFICE ADDED

NOTES:
2-EXISTING FINISHES TO REMAIN UNO

NOTES:
-DOOR HINGES & HARDWARE COLOR TO BE CHOSEN BY OWNER.
-DOOR STAIN COLOR TO BE CHOSEN BY OWNER.

[illegible]

NOTES:
-WINDOW FRAME FINISH & COLOR TO BE CHOSEN BY OWNER



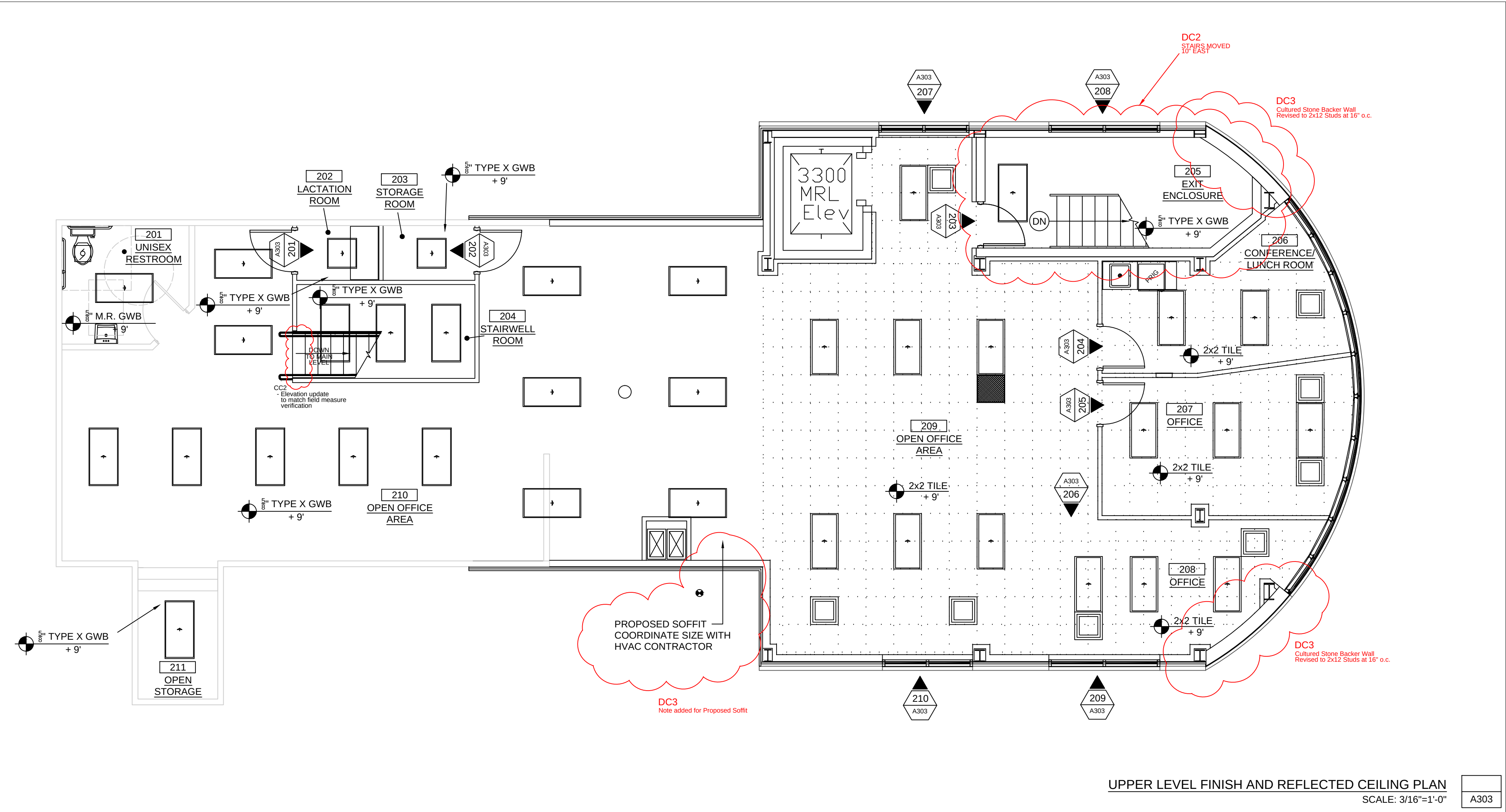
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REVISIONS:		
NO.	DATE	DESCRIPTION
DC2	8/7/14	Space under stairs added to Janitor Closet
DC2	8/8/14	Stairs moved 10' East
DC2	8/11/14	Wall moved 3' East
DC3	9/23/14	Cutured Stone Backer Wall Revised to 2x12 at 16" o.c.
DC3	10/28/14	HR Office added
DC3	11/6/14	Contractor note added
DC3	11/6/14	Lighting Updated
CC2	12/9/14	Revisions as noted
CC3	1/30/15	Revisions as noted

For Construction	
PROJECT NUMBER	D14-041
SHEET SCALE	3/16" = 1'-0"
DRAWN BY	J. PERRIN
DATE ISSUED	August 31, 2015
SHEET NUMBER	A302

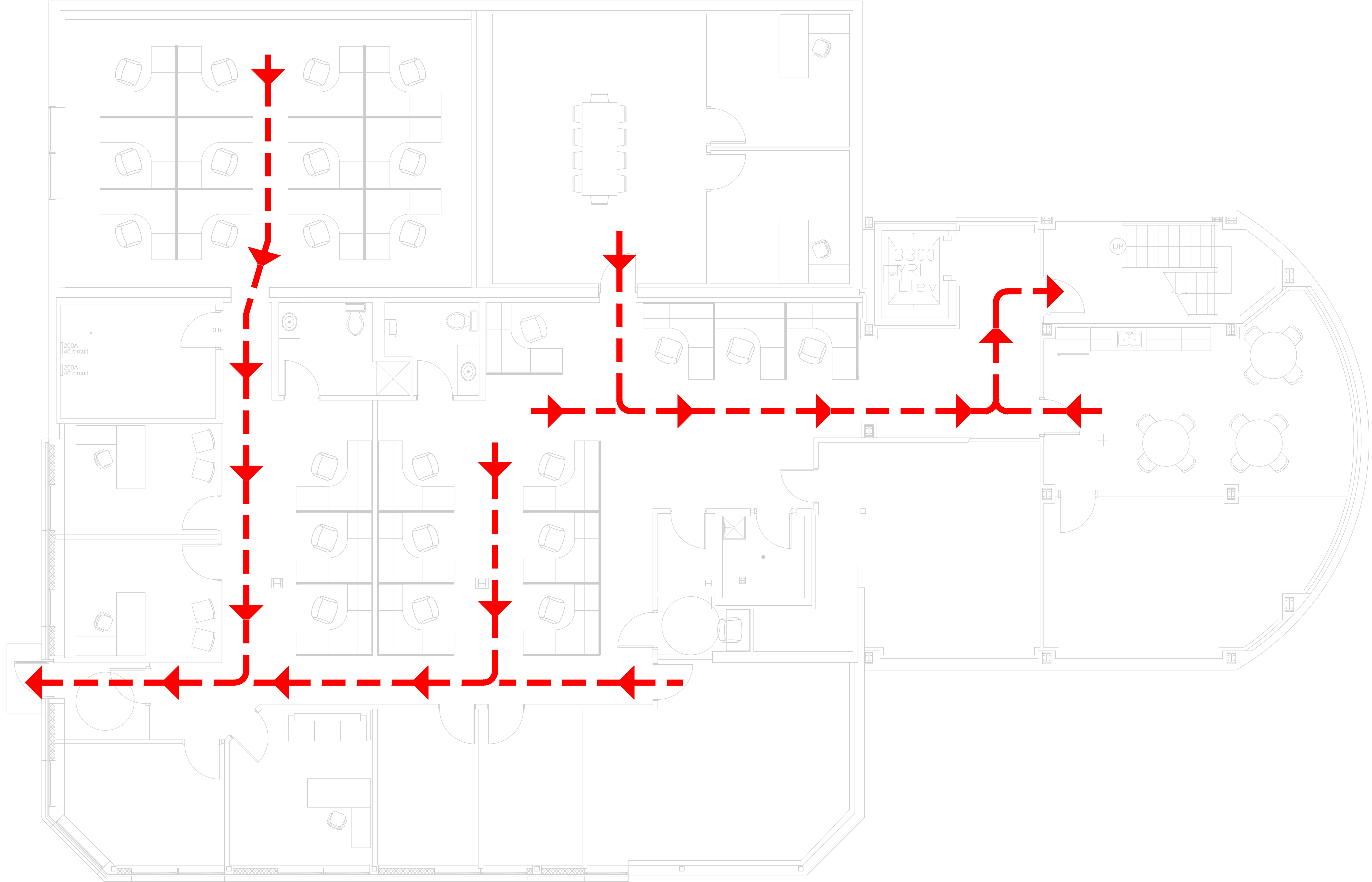
UPPER LEVEL WINDOW SCHEDULE										207	208	209	210
	SIZE	8-0 x 4-0								☒	☒	☒	☒
	SIZE	6-6 x 4-0								☒	☒	☒	☒
	TYPE	FIXED PANE								☒	☒	☒	☒
	TYPE	FIXED PANE MIDDLE - CASEMENT OUTSIDES								☒	☒	☒	☒
	TYPE	DOUBLE HUNG								☒	☒	☒	☒
	TYPE	HORIZONTAL SLIDER								☒	☒	☒	☒
EXTERIOR FRAME	MATERIAL	METAL CLAD								☒	☒	☒	☒
	MATERIAL	WOOD								☒	☒	☒	☒
	MATERIAL	VINYL								☒	☒	☒	☒
	MATERIAL	16 GA. COLD ROLLED METAL								☒	☒	☒	☒
	MATERIAL	18 GA. COLD ROLLED METAL								☒	☒	☒	☒
EXTERIOR FRAME	MATERIAL	ALUM. ALLOY - MIN. 1/8" WALL THICKNESS								☒	☒	☒	☒
	MATERIAL	THERMALLY BROKEN								☒	☒	☒	☒
	MATERIAL	FACTORY PRIMED								☒	☒	☒	☒
	MATERIAL	PRE-FINISHED (COLOR BY OWNER)								☒	☒	☒	☒
	MATERIAL	INSULATED								☒	☒	☒	☒
INTERIOR FRAME	MATERIAL	WOOD - FULL DEPTH								☒	☒	☒	☒
	MATERIAL	WOOD								☒	☒	☒	☒
	MATERIAL	VINYL								☒	☒	☒	☒
	MATERIAL	16 GA. COLD ROLLED METAL								☒	☒	☒	☒
	MATERIAL	ALUM. ALLOY - MIN. 1/8" WALL THICKNESS								☒	☒	☒	☒
GLASS	GLASS	THERMALLY BROKEN								☒	☒	☒	☒
	GLASS	FACTORY PRIMED								☒	☒	☒	☒
	GLASS	PRE-FINISHED (COLOR BY OWNER)								☒	☒	☒	☒
	GLASS	INSULATED								☒	☒	☒	☒
	GLASS	THERMAL PANE LOW-E INSULATED								☒	☒	☒	☒
OPT.	GLASS	GLAZED .40 SHGC OR BETTER								☒	☒	☒	☒
	GLASS	SPANDREL GLASS								☒	☒	☒	☒
	GLASS	INSIDE SCREENS								☒	☒	☒	☒
	GLASS	GRIDS IN AIR SPACE								☒	☒	☒	☒
	GLASS	ACRYLIC INTERIOR SILL								☒	☒	☒	☒
	GLASS	PREFINISHED WOOD INTERIOR SILL								☒	☒	☒	☒
	GLASS									☒	☒	☒	☒
	GLASS									☒	☒	☒	☒
	GLASS									☒	☒	☒	☒
	GLASS									☒	☒	☒	☒
TABLE 303.1.3(1) DEFAULT GLAZED FENESTRATION U-FACTOR													
FRAME TYPE		SINGLE PANE	DOUBLE PANE	SKYLIGHT SINGLE		DOUBLE							
METAL		1.20	0.80	2.00		1.30							
METAL W/ THERMAL BREAK		1.10	0.65	1.90		1.10							
NONMETAL OR METAL CLAD		0.95	0.55	1.75		1.05							
GLAZED BLOCK		0.60											
TABLE 303.1.3(3) DEFAULT GLAZED FENESTRATION SHGC													
SINGLE GLAZED CLEAR		DOUBLE GLAZED CLEAR		GLAZED BLOCK									
TINTED		TINTED		TINTED									
0.8		0.7		0.6									
0.7		0.6		0.5									

NOTES:
- WINDOW FRAME FINISH & COLOR TO BE CHOSEN BY OWNER.

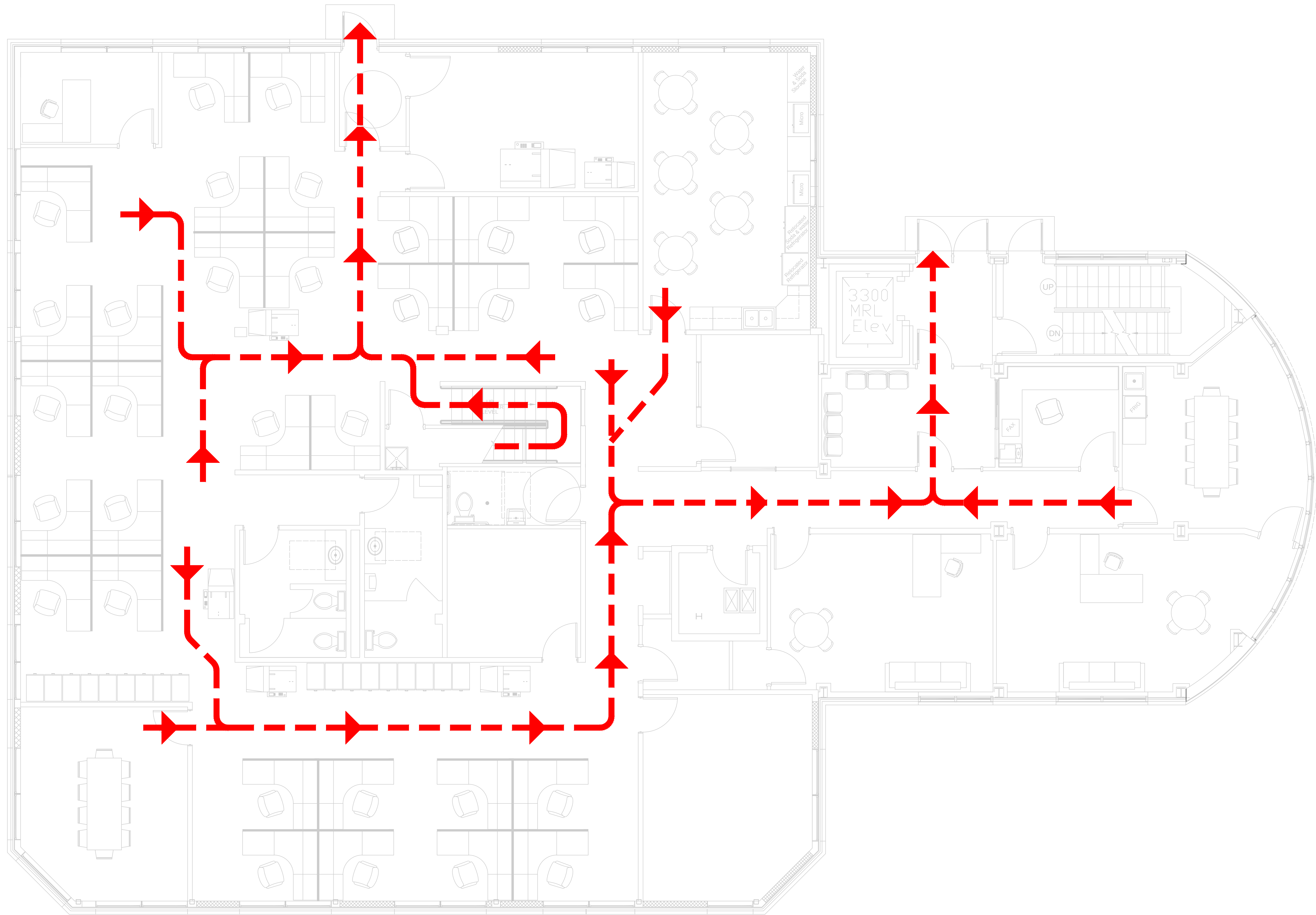


NOTES:
-EXISTING FINISHES TO REMAIN U.N.O.

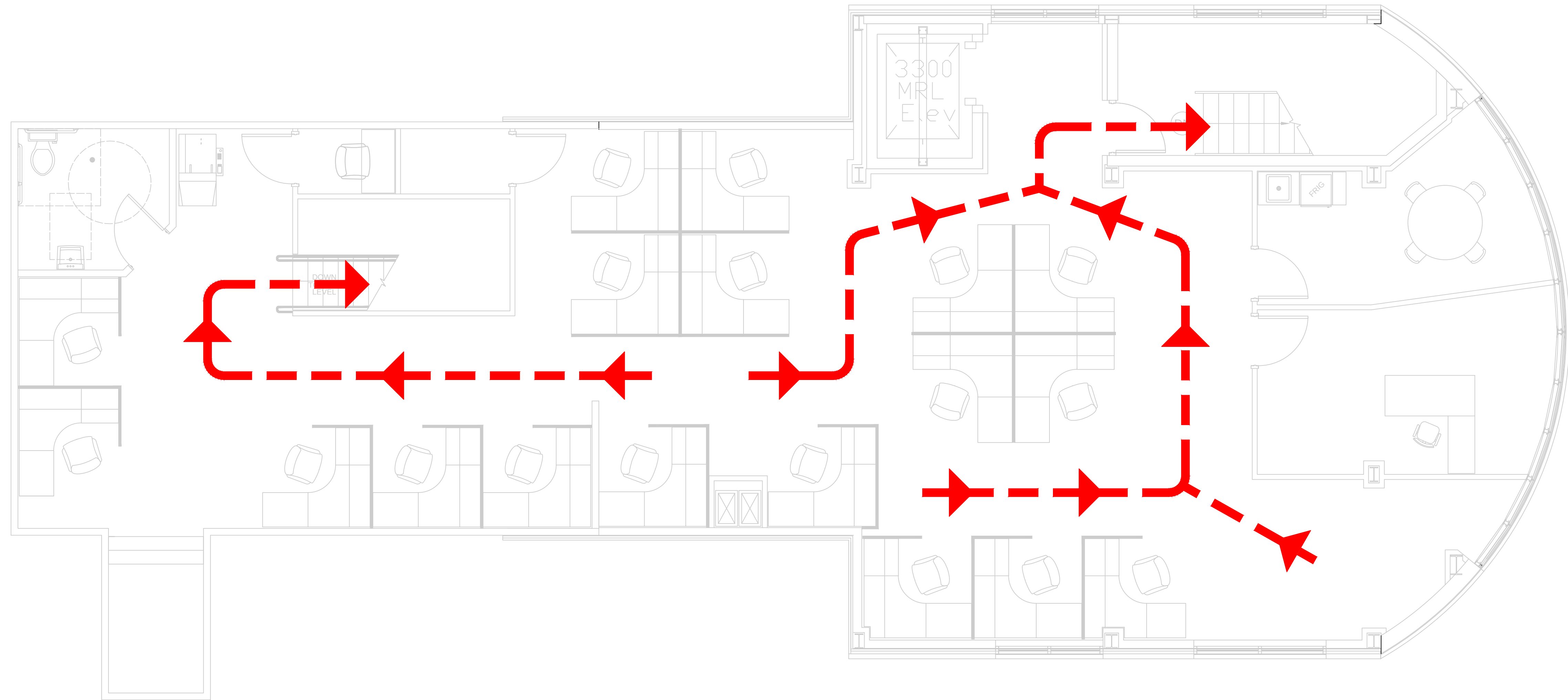
For Construction	
PROJECT NUMBER	D14-041
SHEET SCALE	3/16"=1'-0"
DRAWN BY	J. PERRIN
DATE ISSUED	August 31, 2015
SHEET NUMBER	A303



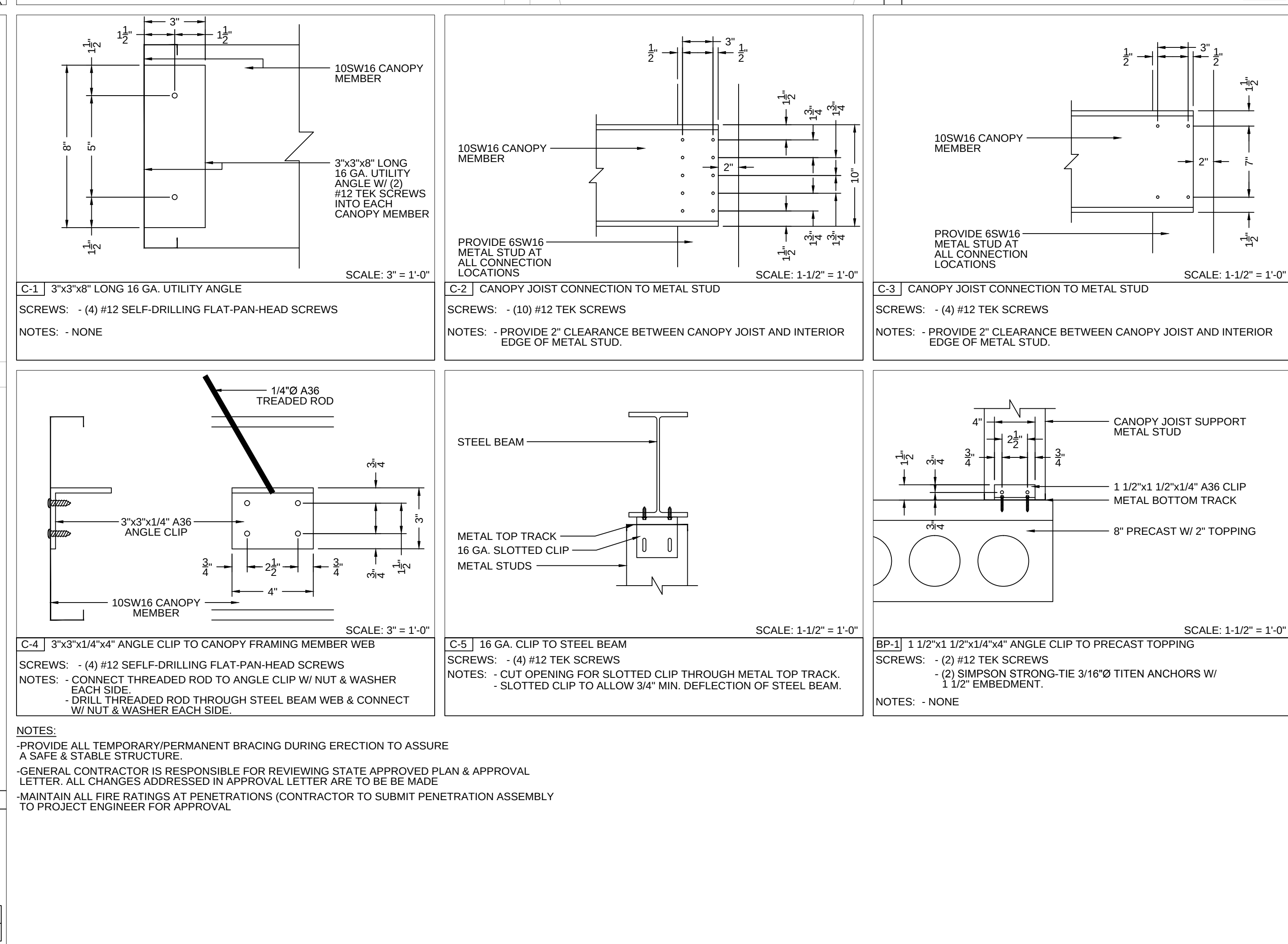
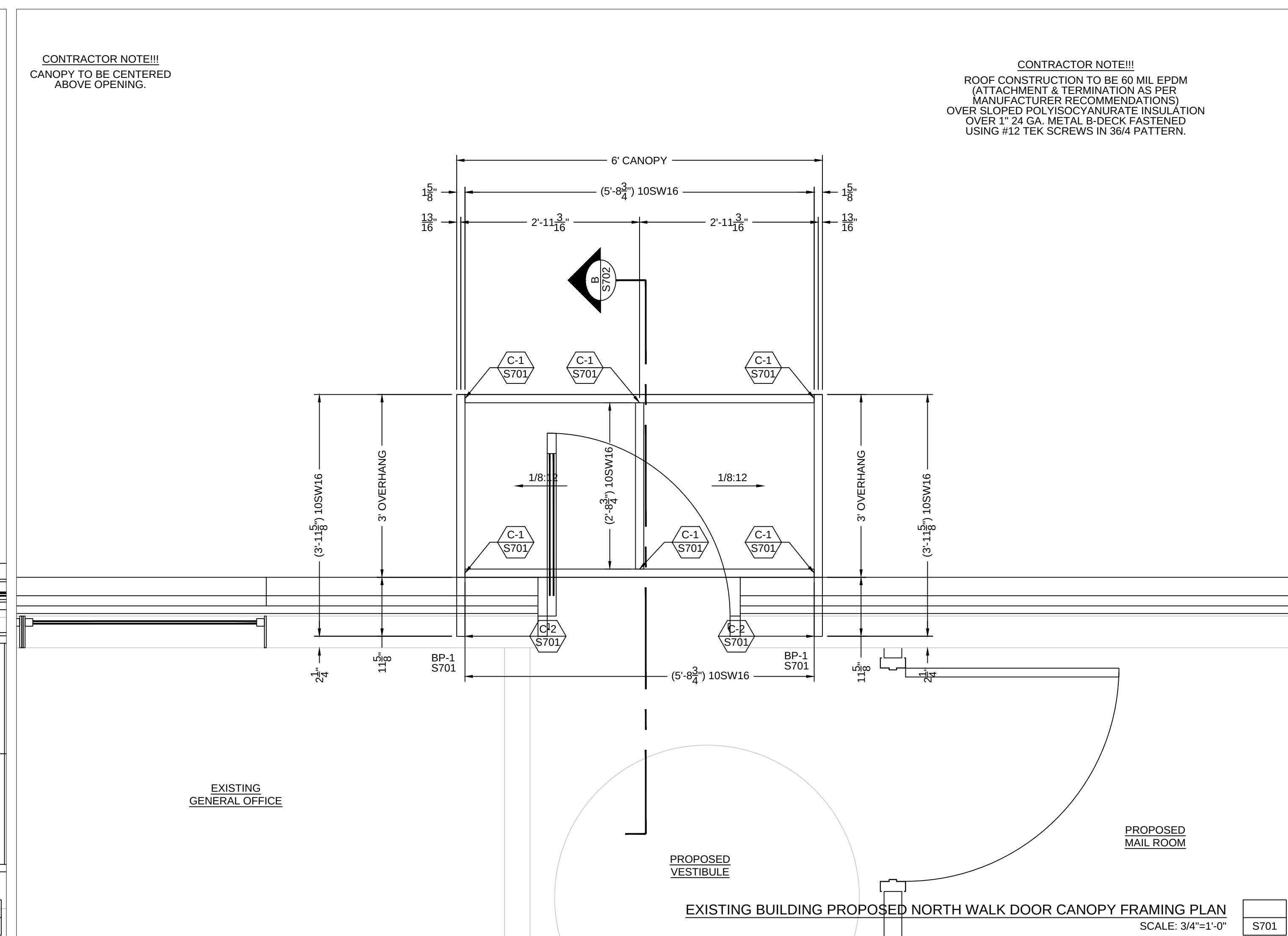
BASEMENT LEVEL EXITING DIAGRAM

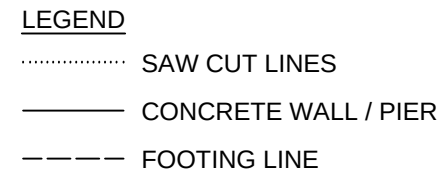


MAIN LEVEL EXITING DIAGRAM



UPPER LEVEL EXITING DIAGRAM





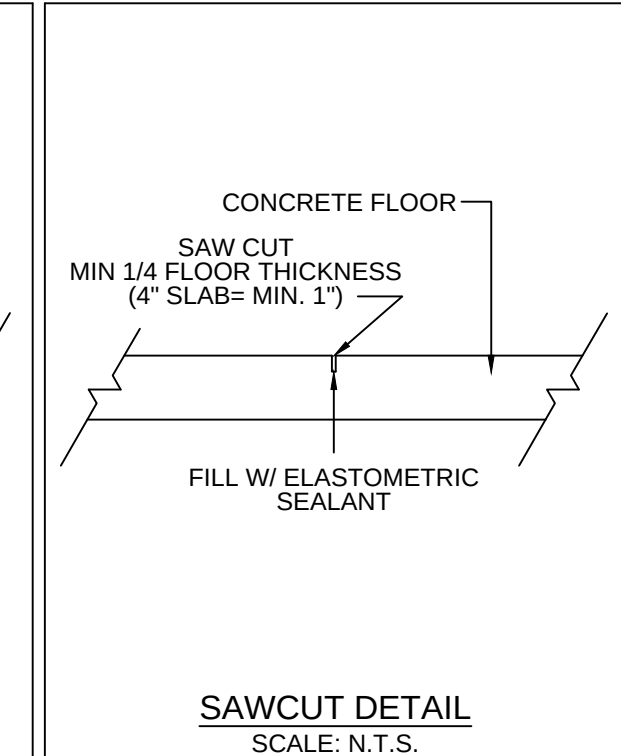
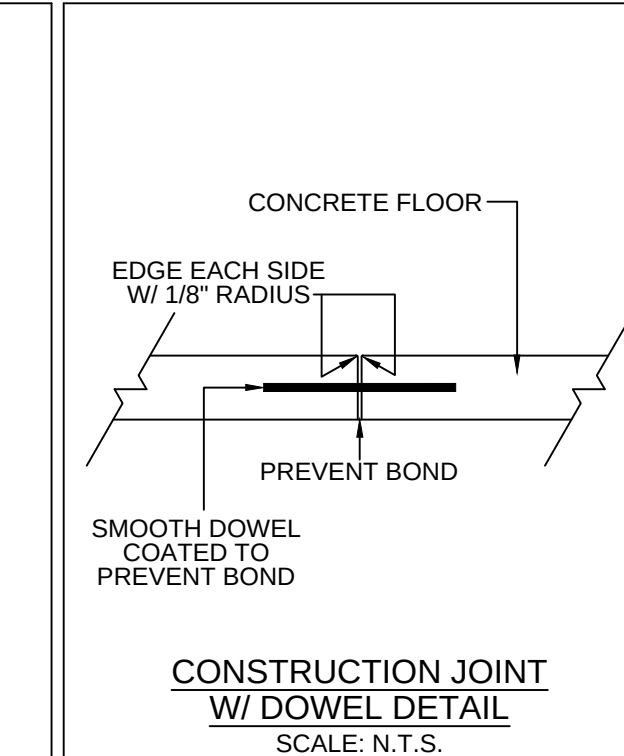
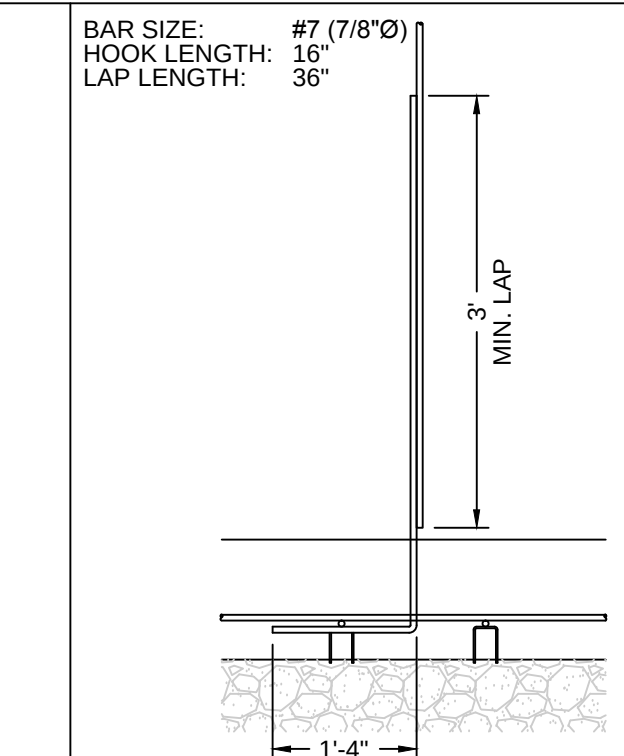
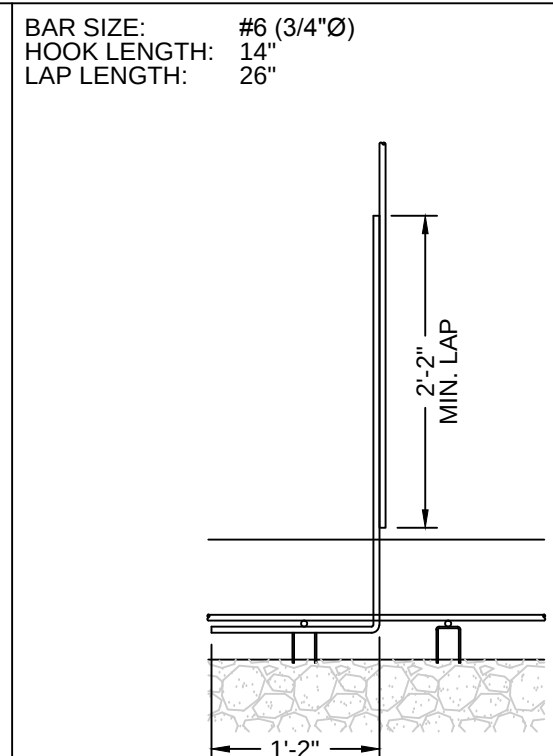
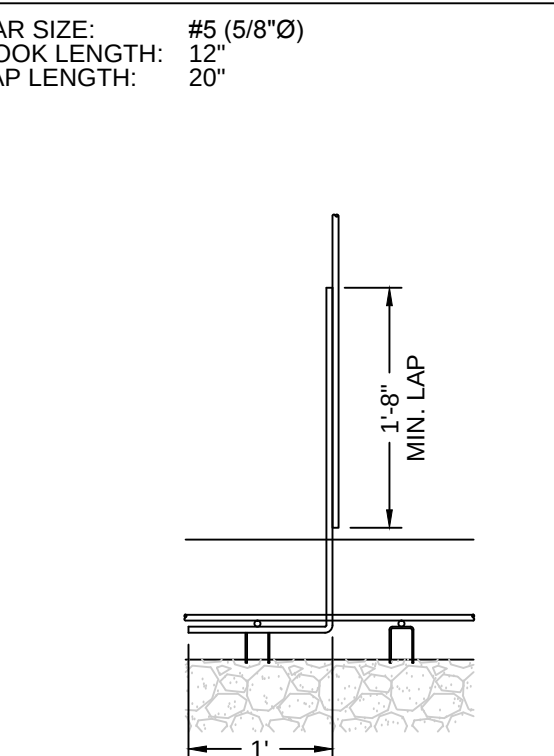
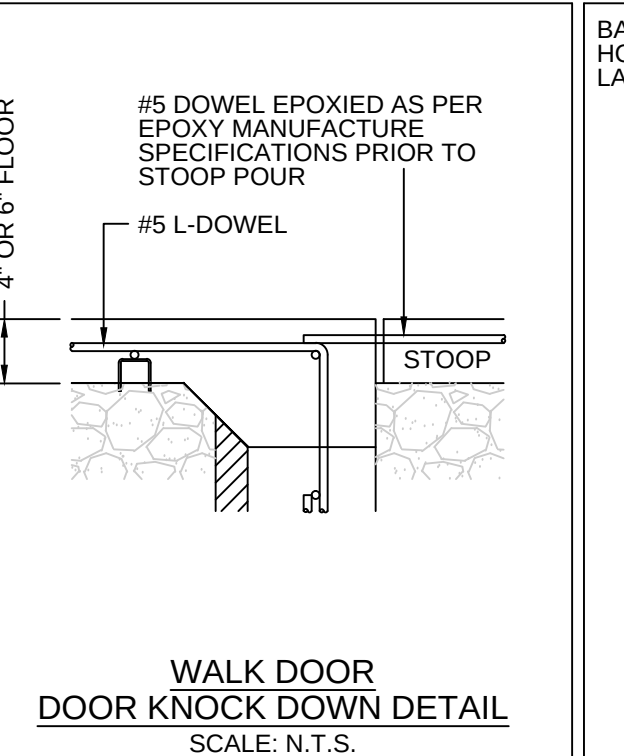
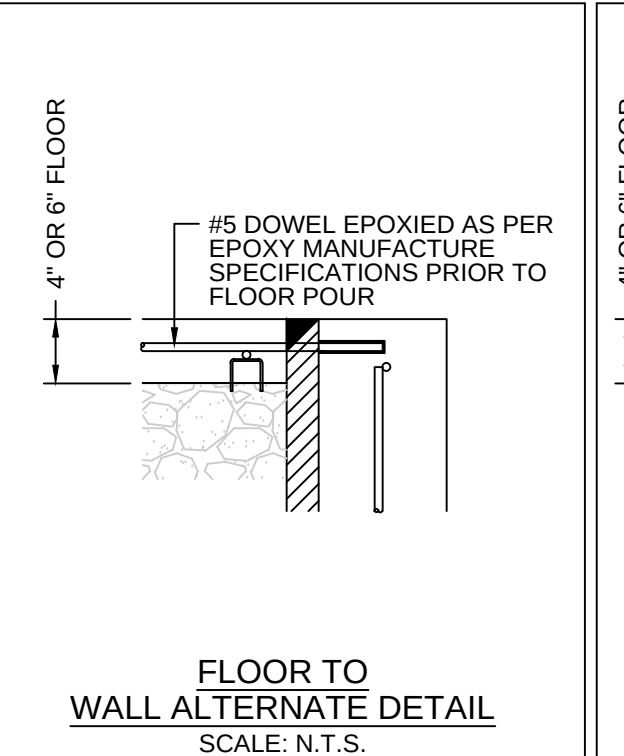
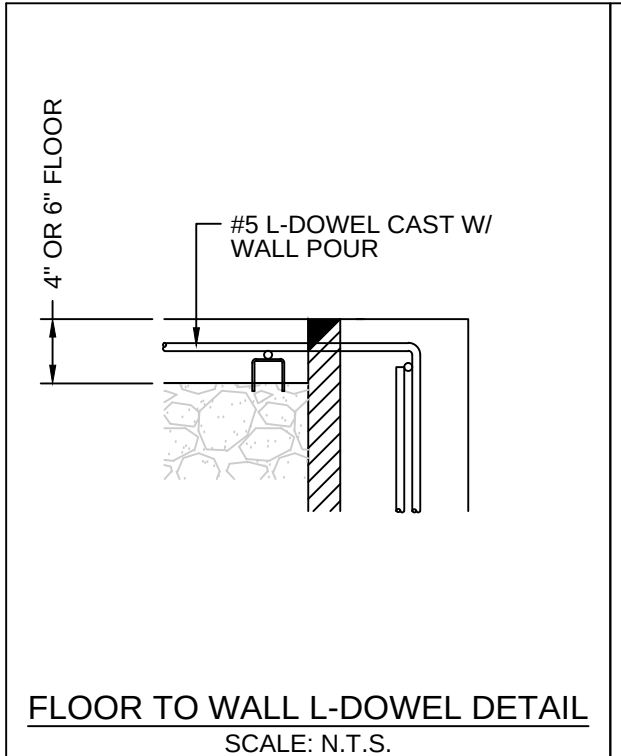
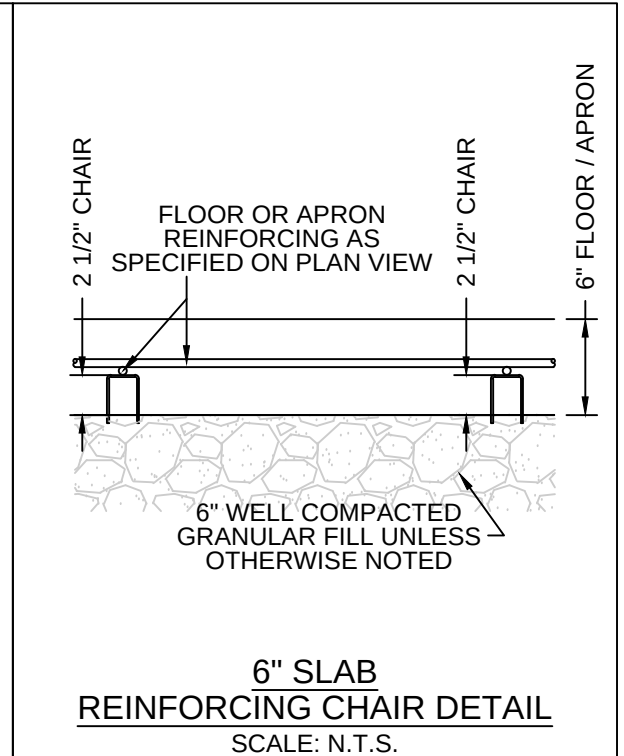
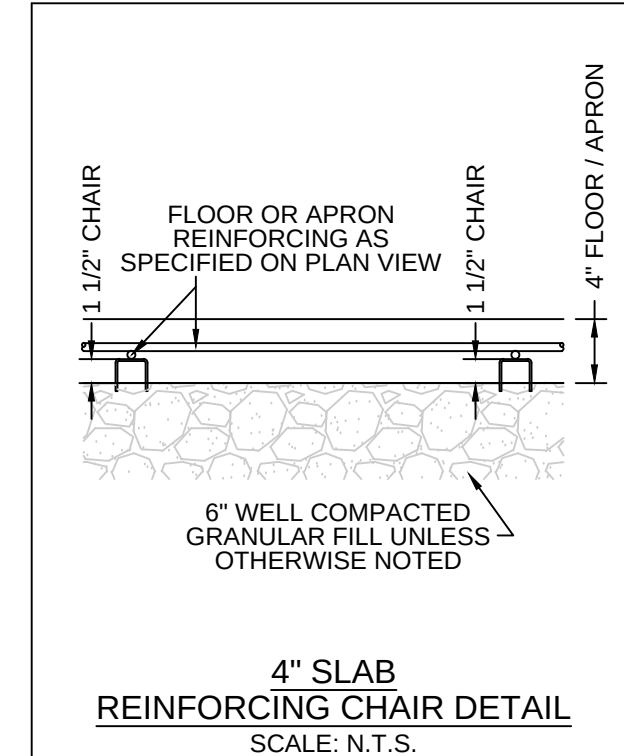
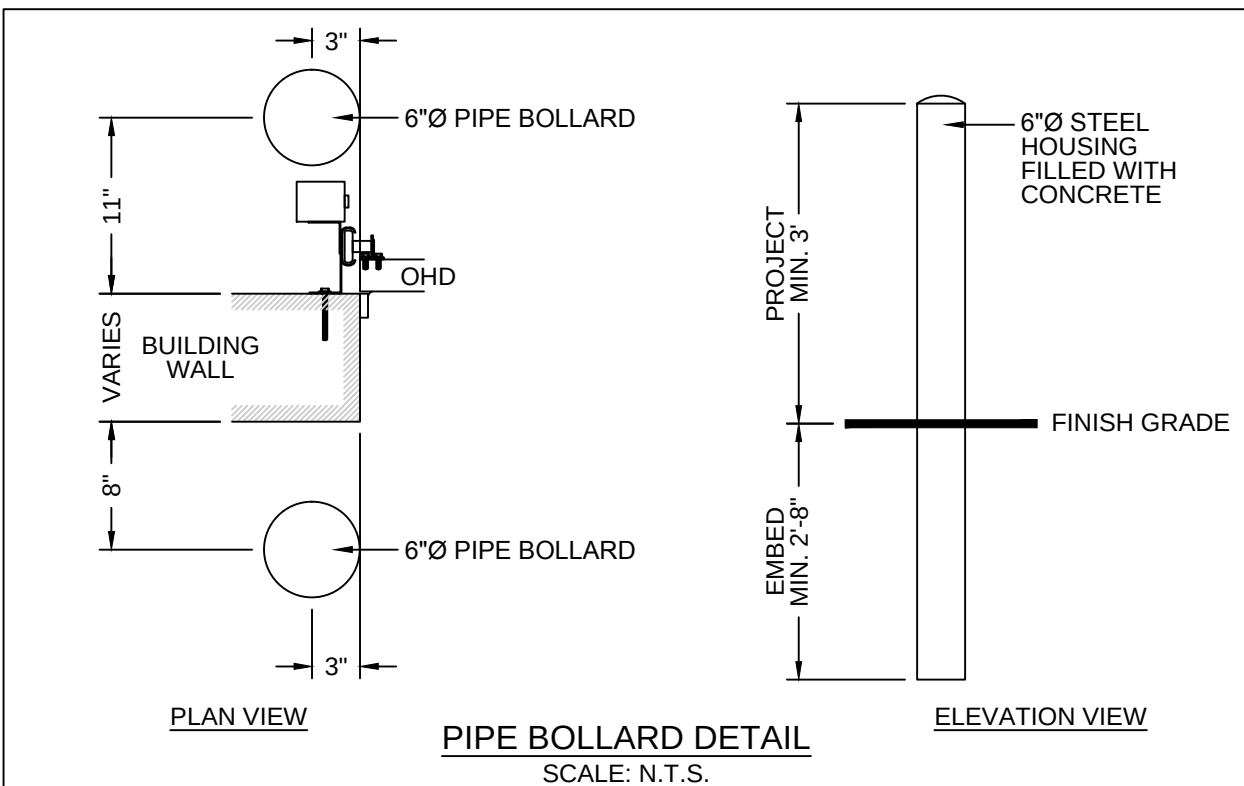
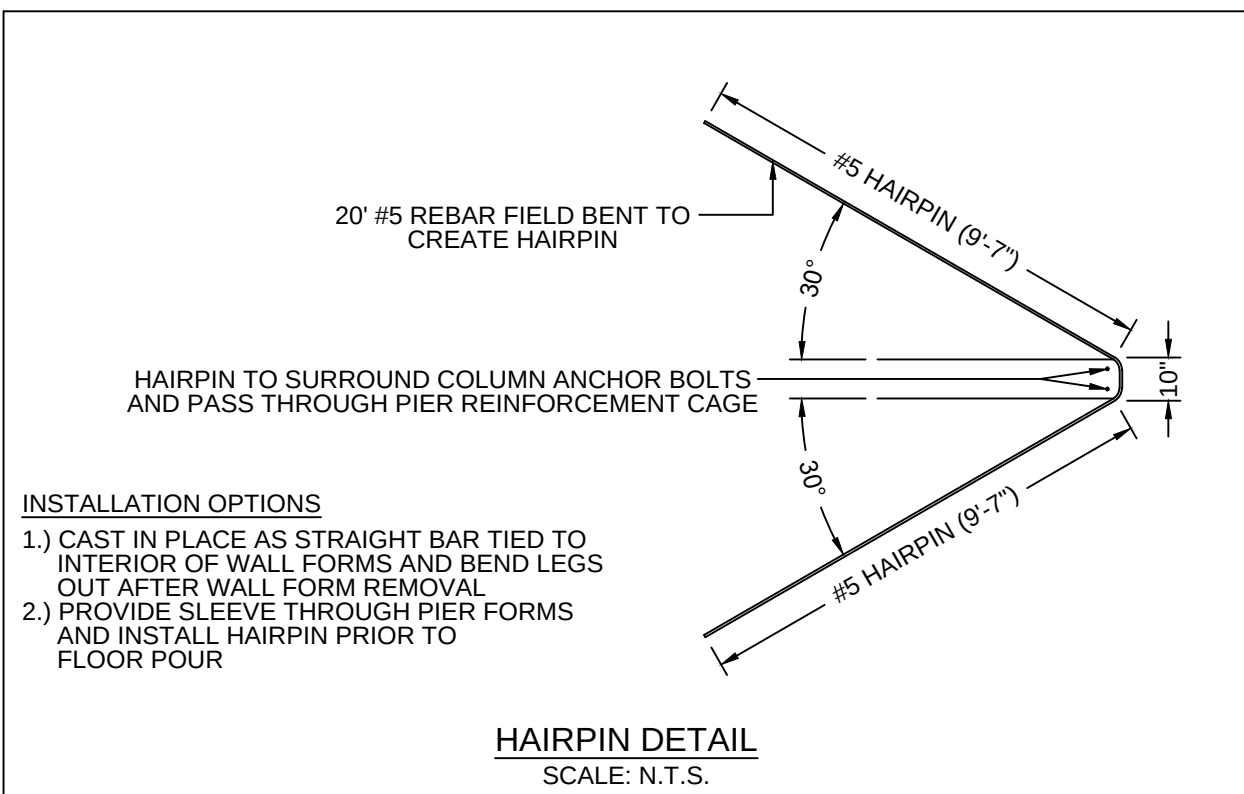
- SOIL NOTES:
1. FOUNDATION EXCAVATION, BACKFILLING & COMPACTION TO BE INSPECTED BY A QUALIFIED SOIL TESTING FIRM
 2. SITE SOIL BEARING CAPACITY PRESSURE 2,000 PSF. IF THE FOUNDATION IS NOT ON VIRGIN SOIL, PLACE 6" MINIMUM ON COMPACTED GRANULAR FILL (REQUIRED COMPACTION 95% OF MAX DENSITY)
 3. MINIMUM 6" WELL COMPACTED FILL UNDER FOOTING AND SLABS.
(REQUIRED 95% OF MAX. DENSITY)
 4. BEFORE BACK FILLING AND COMPACTING SHORE ALL FOUNDATION WALLS.

- REINFORCING NOTES:**
1. ALL STEEL REINFORCEMENT TO BE NEW MATERIAL WITHOUT RUST OR SCALE.
 2. ALL STEEL REINFORCEMENT MUST HAVE MIN. YIELD STRESS OF 60,000psi.
 3. ALL STEEL REINFORCEMENT MUST HAVE MIN. TENSILE STRENGTH OF 75,000psi.
 4. REINFORCING #4 & #5 CONT. BARS DELIVERED IN STOCK LENGTH.
 5. REINFORCING #4 BARS ARE TO BE FIELD BENT. REINFORCING #5 BARS AND LARGER ARE TO BE SHOP BENT.
 6. CONT. REINFORCING TO LAP MIN. 18" AT SPLICES AND SPLICES ARE TO BE STAGGERED 12".
 7. REINFORCEMENT DOWELS THAT ARE TO BE CAST IN FOOTINGS FOR CONCRETE COLUMNS AND WALLS ABOVE ARE TO BE SAME SIZE AS WALL REINFORCEMENT. REINFORCEMENT FROM FOOTING TO COLUMN OR FOOTING TO 30" RADIUS OF CURVE OR AS SPECIFIED IN DETAIL LAP DETAIL.
 8. CONCRETE FOOTING REINFORCEMENT IS TO HAVE 90 DEGREE BEND. WALL REINFORCEMENT DOWELS ARE TO BE STRAIGHT.

- CONCRETE NOTES:**
1. CAST CONCRETE AVOIDING SEPARATION OF AGGREGATE, ALLOWING CONCRETE TO REMAIN IN PLASTIC CONDITION YET FLOW EASILY AROUND REINFORCEMENT
 2. CONCRETE FOOTINGS ARE CENTERED UNDER WALLS OR COLUMNS UNLESS NOTED OTHERWISE
 3. FOOTING AND FOUNDATION WALLS TO HAVE A ULTIMATE COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS
 4. SLAB AND FOUNDATION WALLS GREATER THAN 4" IN HEIGHT IS TO HAVE A ULTIMATE COMPRESSIVE STRENGTH OF 4,000psi AT 28 DAYS
 5. MAX SLUMP 5" MAX AGGREGATE 3/4" TO 6" BAG CEMENT PER CUBIC YARD / EXTERIOR CONCRETE IS TO HAVE 6% ENTRAINED AIR, NO CALCIUM CHLORIDE OR FLY ASH ADMIXTURES PERMITTED
 6. HOT WEATHER CONCRETING--REFER TO ACI 306
 7. COLD WEATHER CONCRETING--REFER TO ACI 306
 8. MEASURING PLACING CONCRETE--REFER TO ACI 306

- TESTING NOTES:
1. CONCRETE TESTING IN ACCORDANCE TO ACI 318--LATEST VERSION TO BE PROVIDED BY GENERAL CONTRACTOR. TEST RESULTS ARE TO BE PROVIDED TO THE FOLLOWING: PROJECT ENGINEER, OWNER, AND REQUIRED SUBCONTRACTORS

- OTHER NOTES:**
1. REFER TO ALL CORRESPONDING PLANS TO ASSURE PROPER DIMENSIONS AND PLACEMENT OF ALL ANCHOR INSERTS AND ANY UNDER SLAB / FOUNDATION UTILITIES.
 2. PROVIDE 2" MIN. FLOOR CONCRETE TO ALL JOINTS CONSULT PROJECT ENGINEER. WALL JOINTS AT MAX. OF 60" O.C. REINFORCING TO CARRY THROUGH JOINTS, FILL JOINTS W/ EPOXYMETRIC SEALANT.
 3. PROVIDE 2" MIN. FLOOR CONCRETE TO BE APPLIED ON ALL NON-EPOXIFIED FLOOR AREAS, SCHED FLOORS AND SLABS ON GRADE LEVEL, MAINTAINING SURFACE FLATNESS P/ OF 25. PROVIDE 1" MIN. CLEAR VAPOR BARRIER BENEATH SLAB. LAP JOINTS AS PER MANUFACTURER'S RECOMMENDATIONS.
 4. PROVIDE 2" MIN. FLOOR CONCRETE TO BE APPLIED ON ALL NON-EPOXIFIED FLOOR AREAS, SCHED FLOORS AND SLABS ON GRADE LEVEL, MAINTAINING SURFACE FLATNESS P/ OF 25. PROVIDE 1" MIN. CLEAR VAPOR BARRIER BENEATH SLAB. LAP JOINTS AS PER MANUFACTURER'S RECOMMENDATIONS.
 5. HIRE PUMP CONTRACTOR TO PROVIDE ACCESSORY CONCRETE PAD FOR CONDENSING UNIT.
 6. HIRE PUMP CONTRACTOR TO PROVIDE ACCESSORY CONCRETE PAD FOR CONDENSING UNIT.

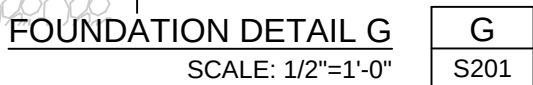
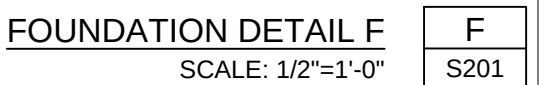
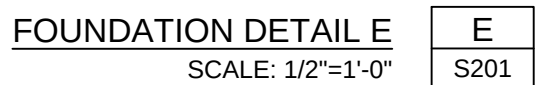
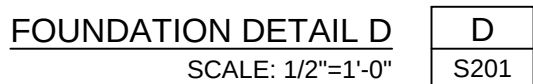


REVISIONS:		
NO.	DATE	DESCRIPTION
DC2	8/8/14	Sump pit added
DC2	8/8/14	Stairs moved 10' East
DC3	9/23/14	Knock out depth revised
DC3	10/16/14	Wall thickness modified
	10/29/14	Elevator shaft rev.
DC3	11/6/14	Notes revised
CC1	11/21/14	FND location revised
CC1	11/24/14	Wall knockout depth revised
CC1	12/2/14	Finish Floor Elev. updated

For Construction	
PROJECT NUMBER	D14-041
SHEET SCALE	AS NOTED
DRAWN BY	J.Baillie
DATE ISSUED	August 31, 2015
SHEET NUMBER	S101

[illegible]

For Construction	
PROJECT NUMBER	D14-041
SHEET SCALE	AS NOTED
DRAWN BY	J.Bailie
DATE ISSUED	August 31, 2015
SHEET NUMBER	S201

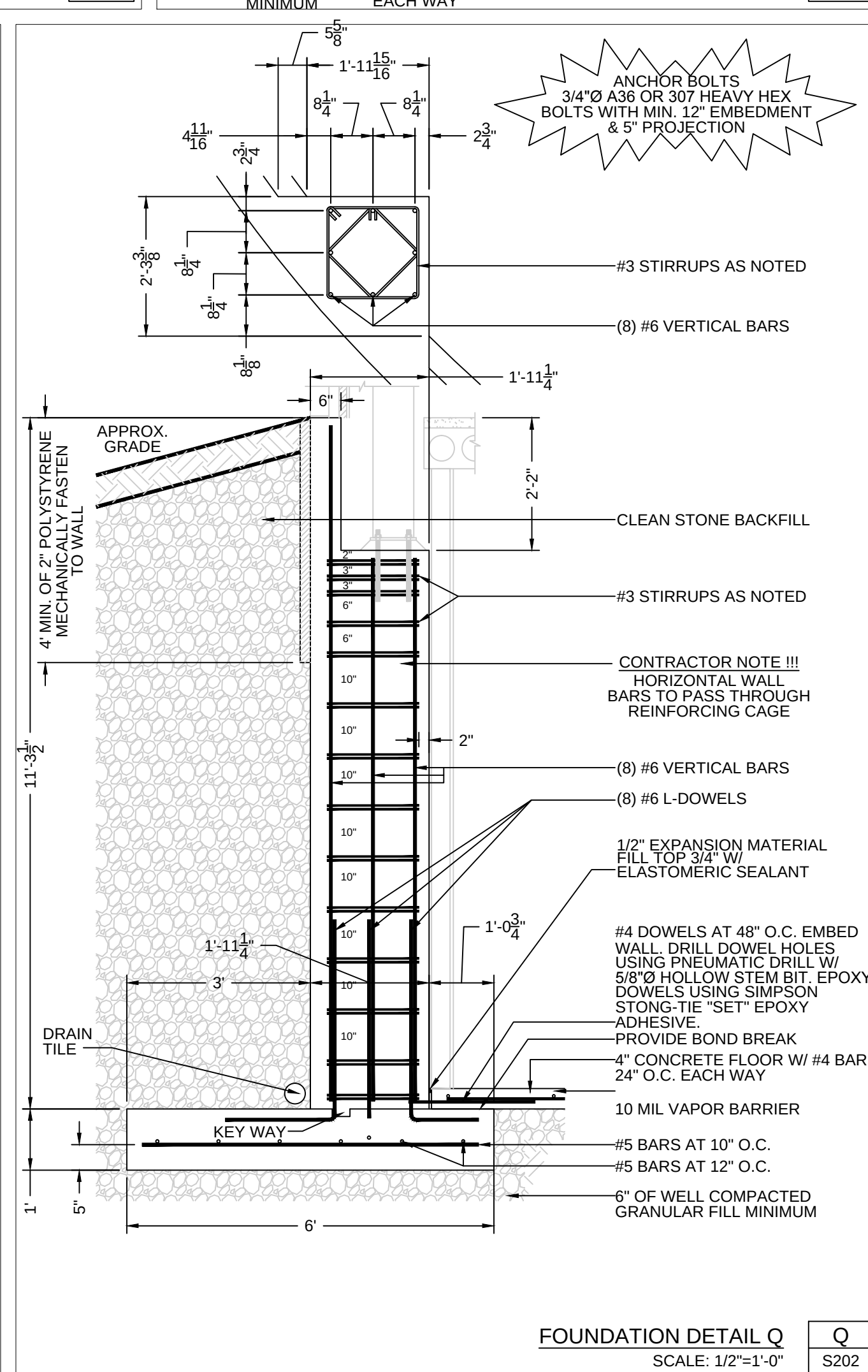
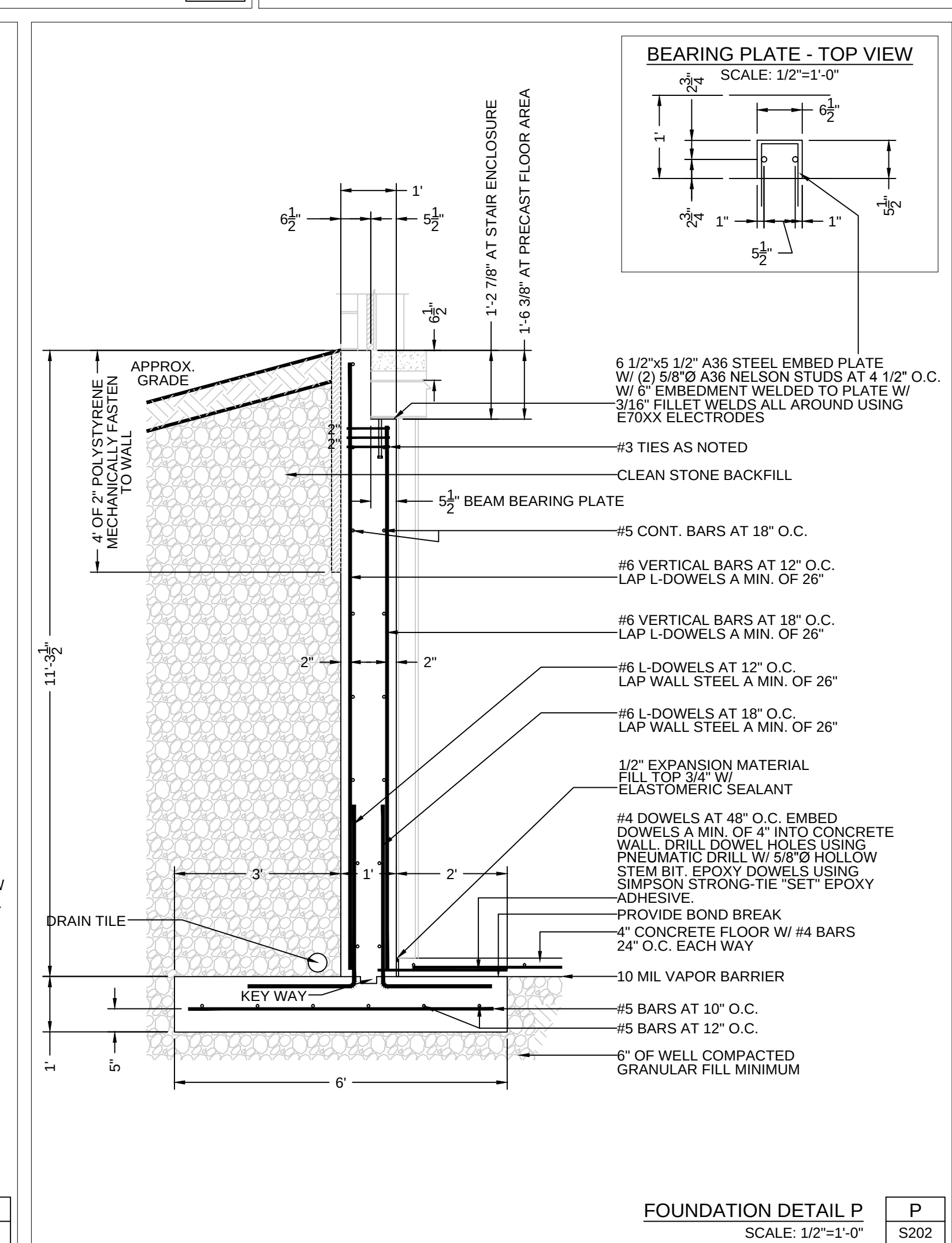
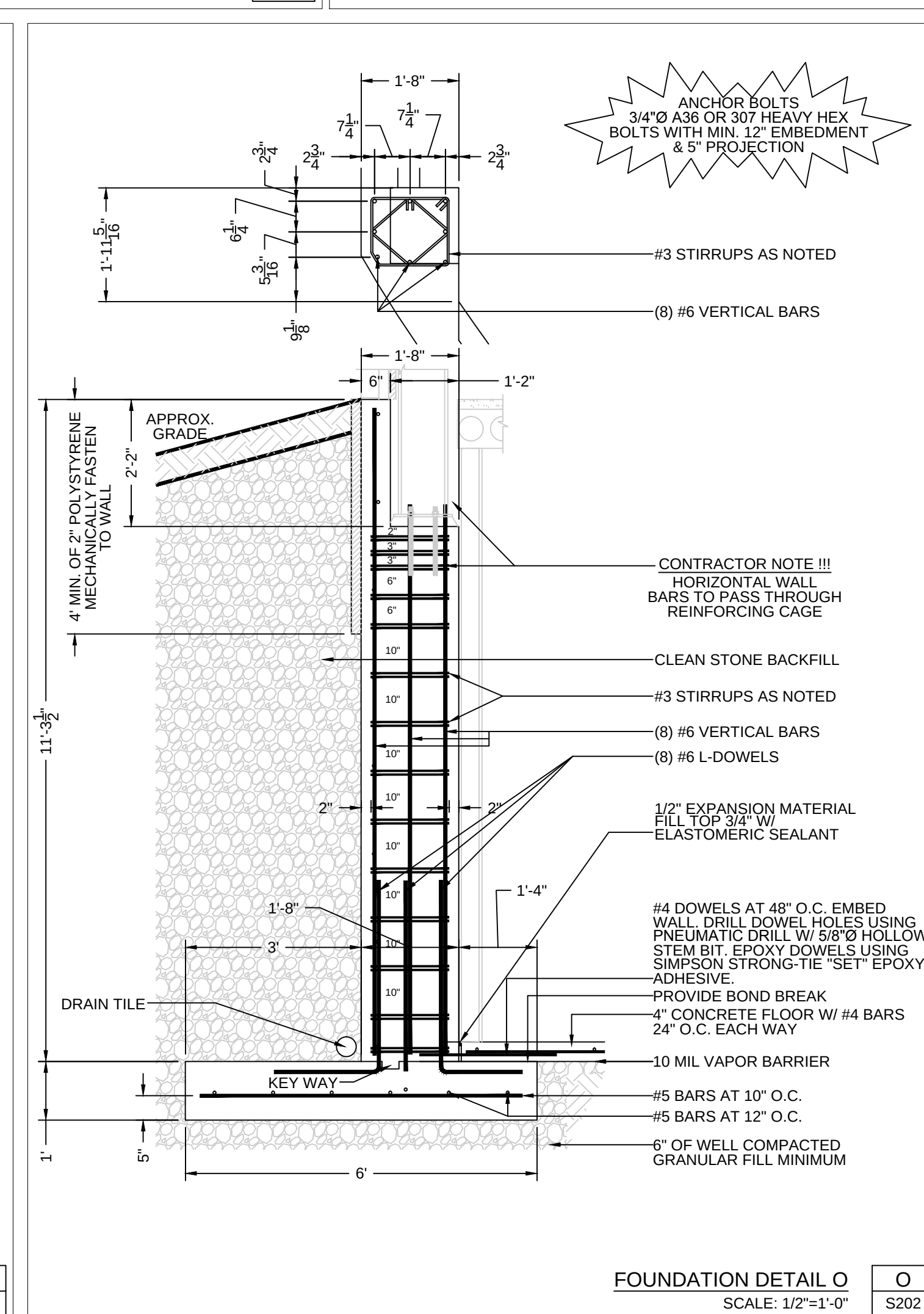
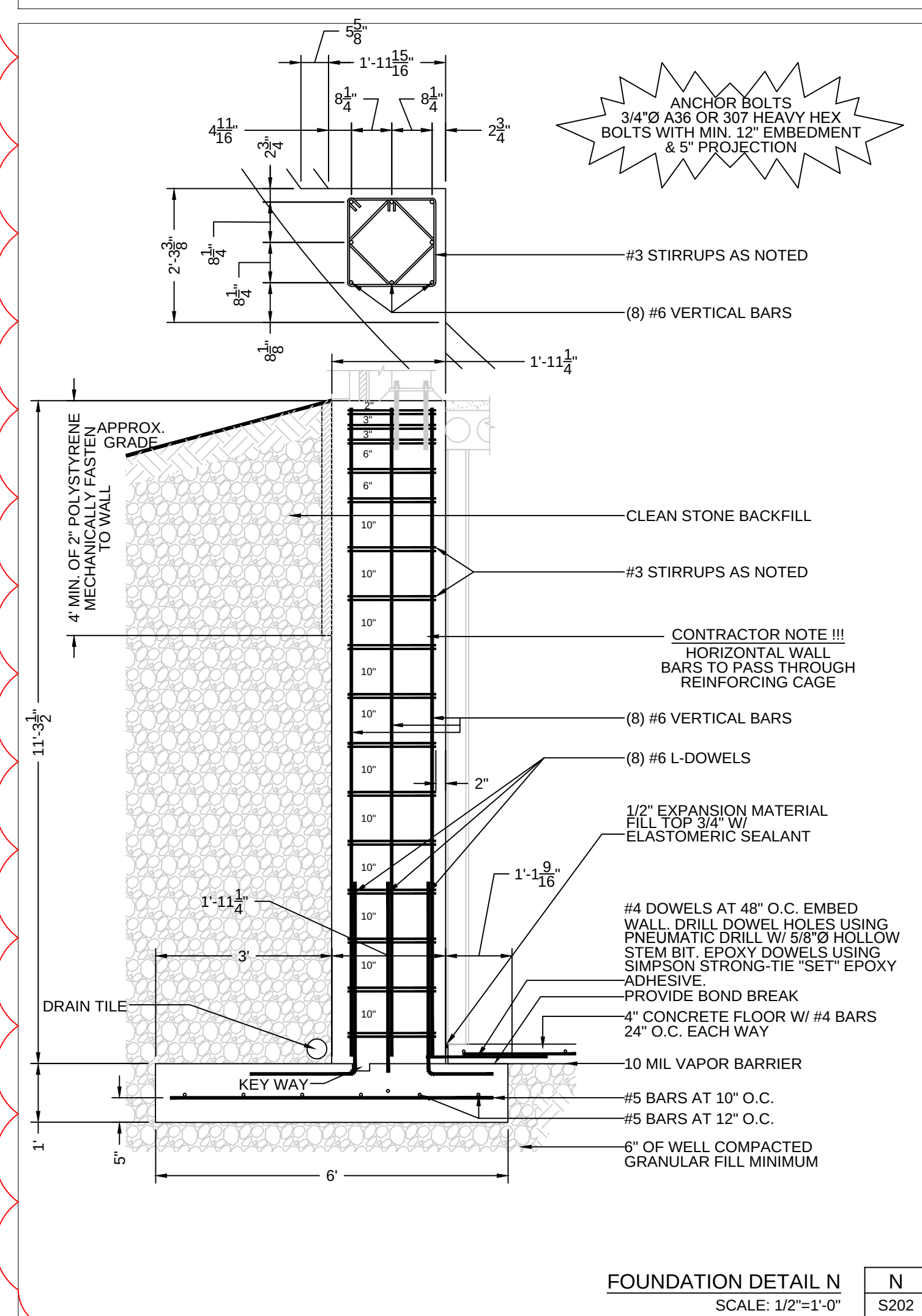
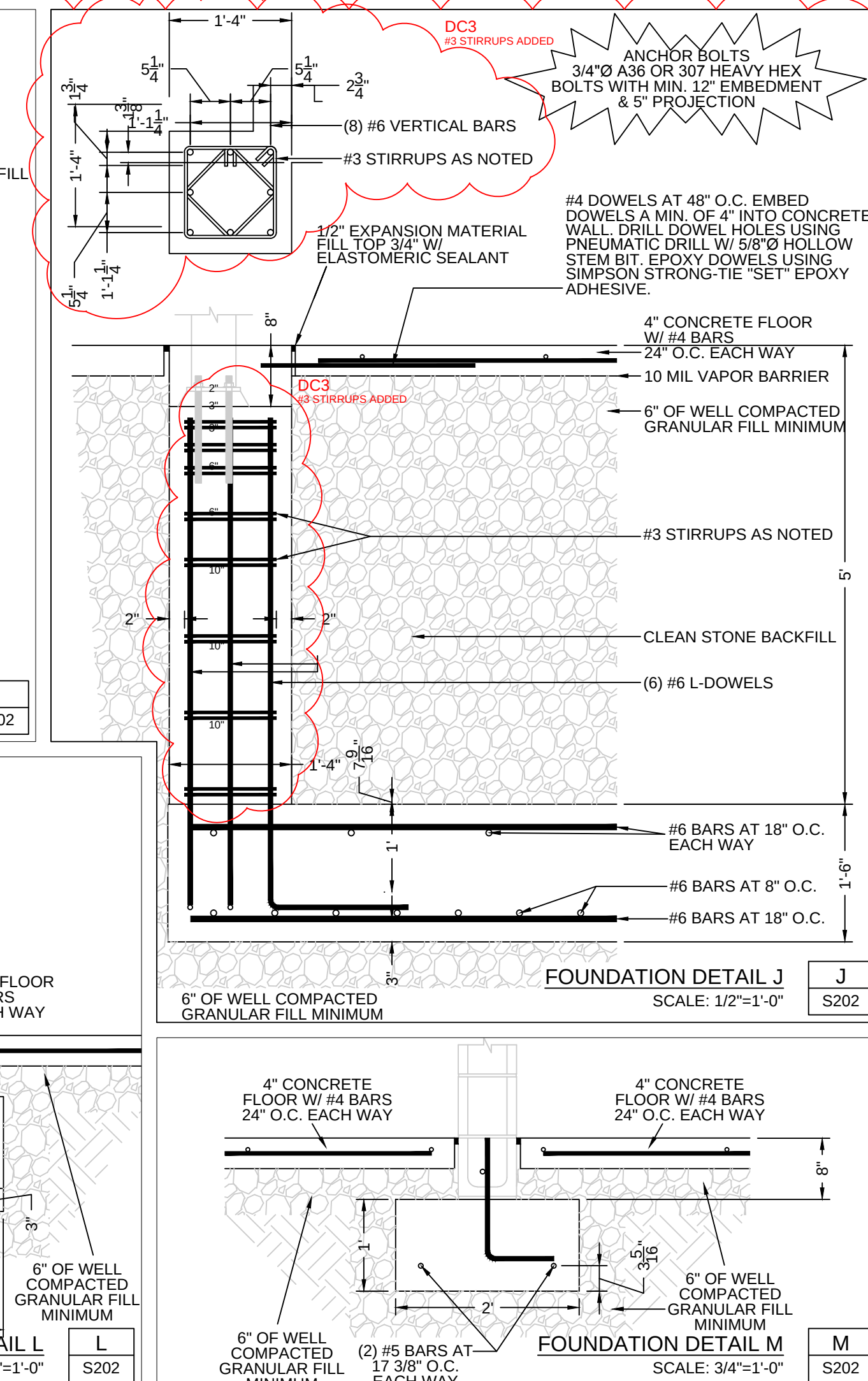
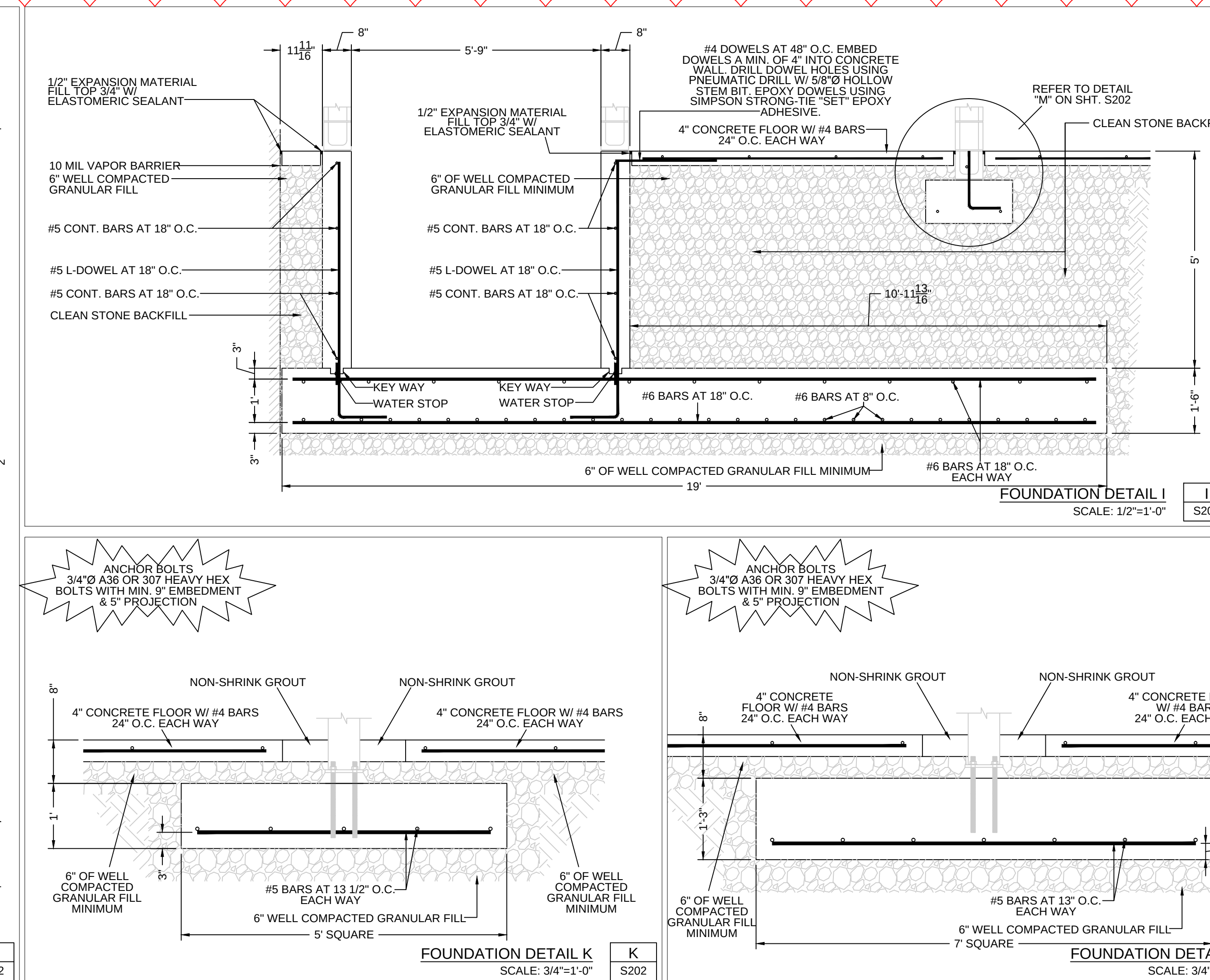
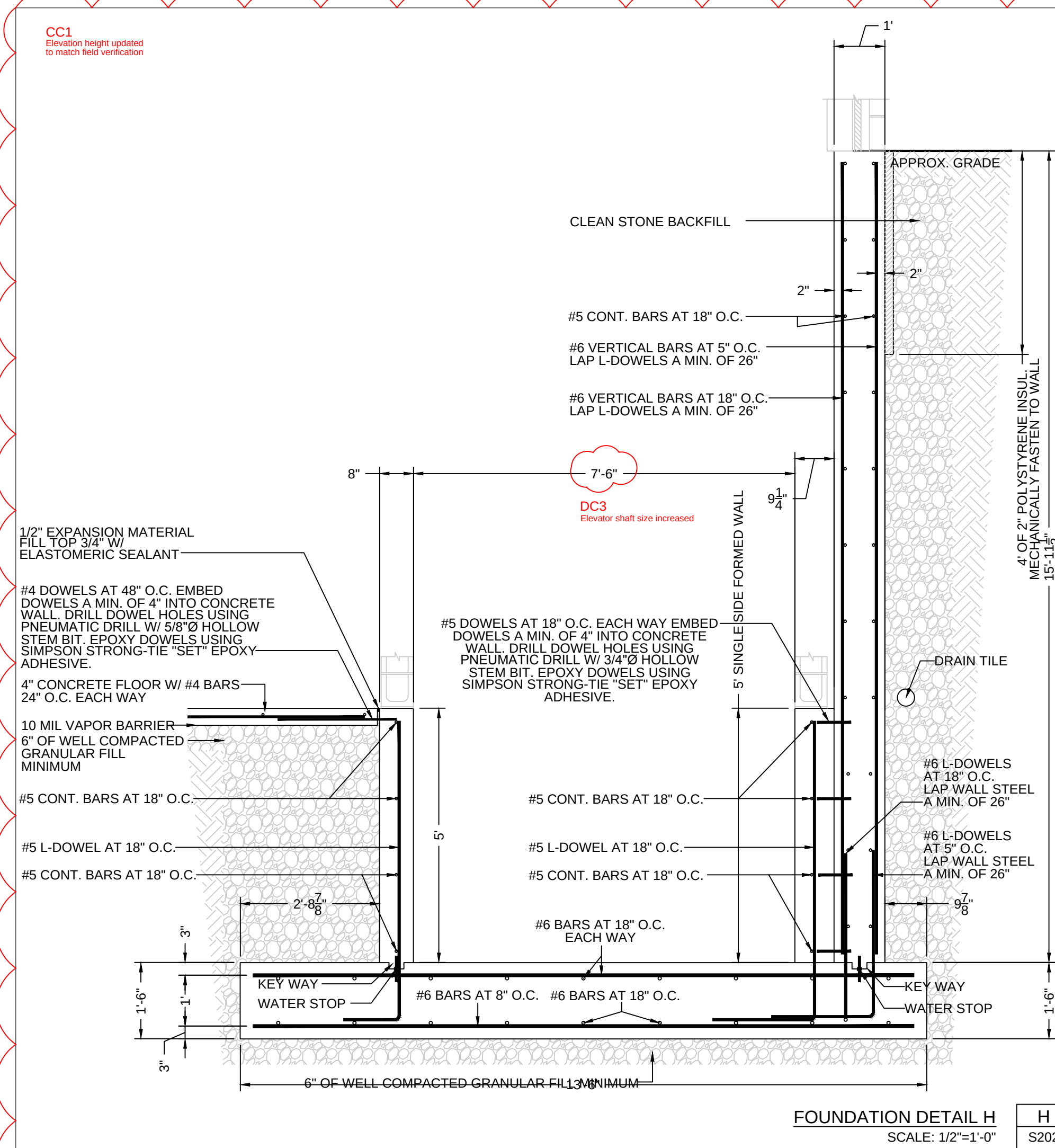


REVISIONS:		
NO.	DATE	DESCRIPTION
DC3	10/29/14	Elevator shaft rev.
DC3	11/5/14	#3 Stirrup added
CC1	11/28/14	Elevation height updated

[illegible]

For Construction

PROJECT NUMBER	D14-041
SHEET SCALE	AS NOTED
DRAWN BY	J.Baillie
DATE ISSUED	August 31, 2015
SHEET NUMBER	S202

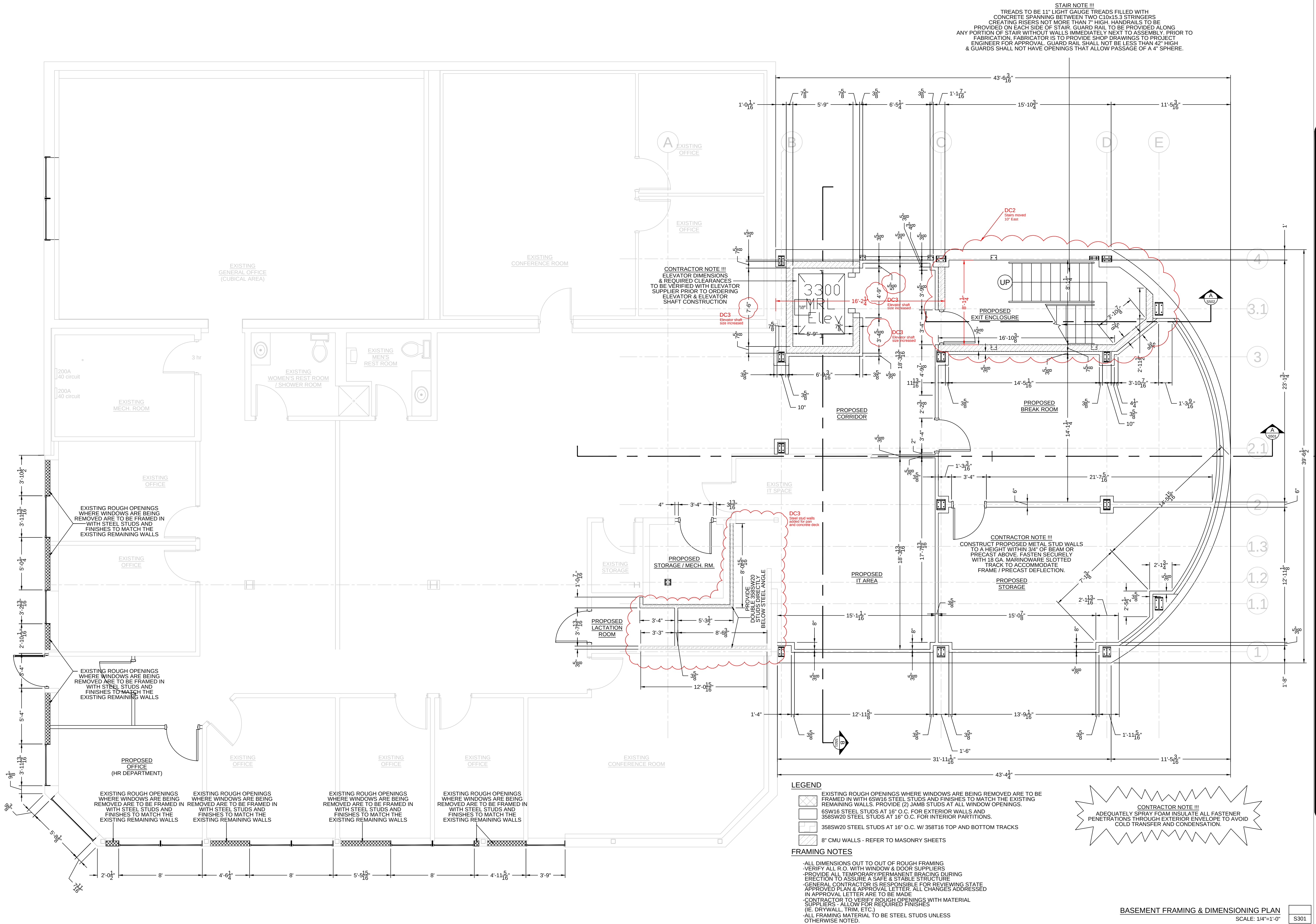




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For Construction	
PROJECT NUMBER	D14-041
SHEET SCALE	AS NOTED
DRAWN BY	J.Baillie
DATE ISSUED	August 31, 2015
SHEET NUMBER	S301

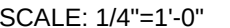




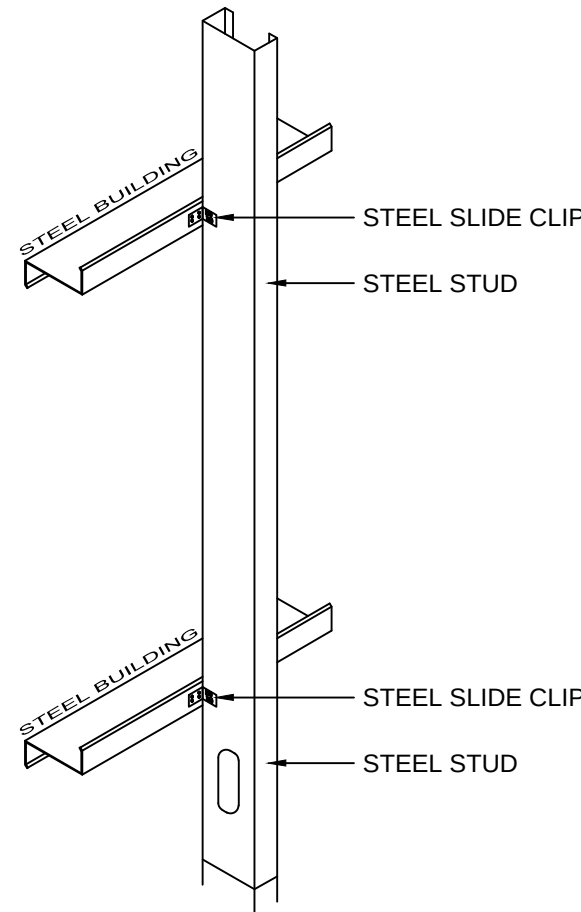
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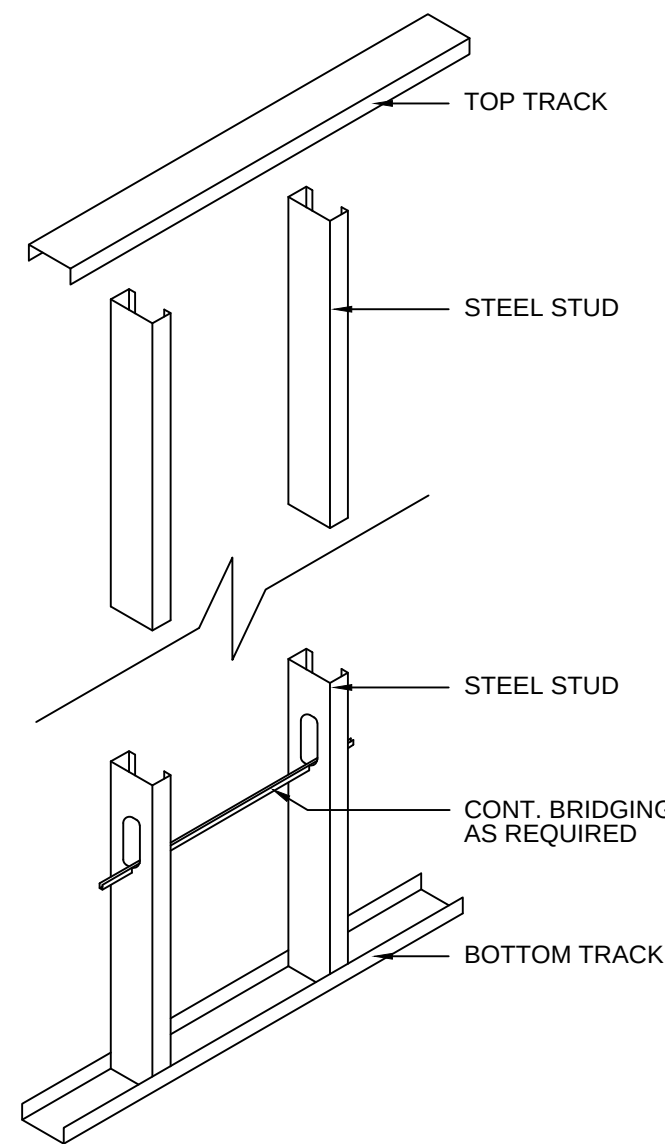
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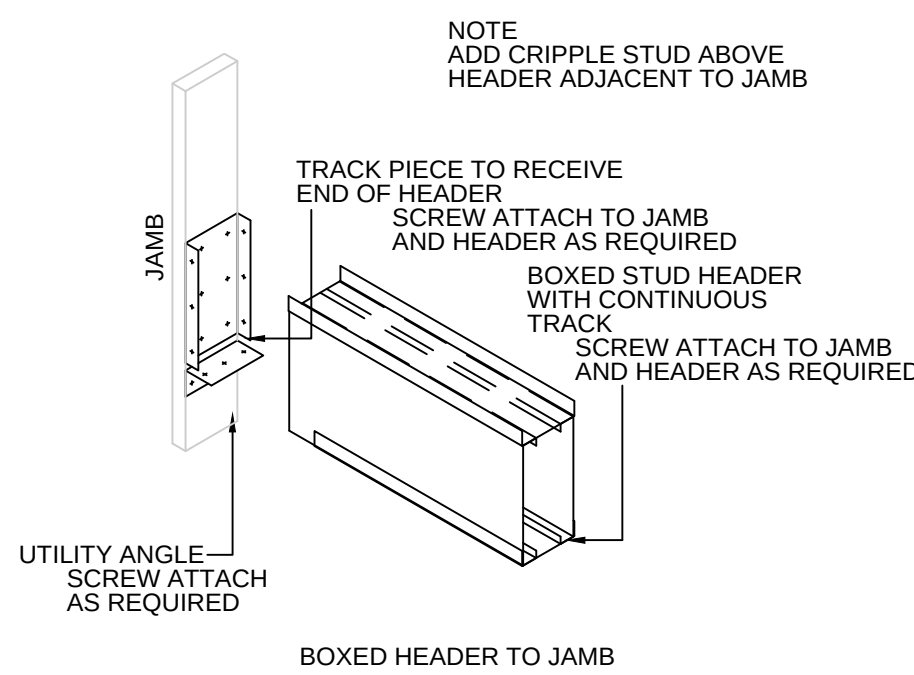
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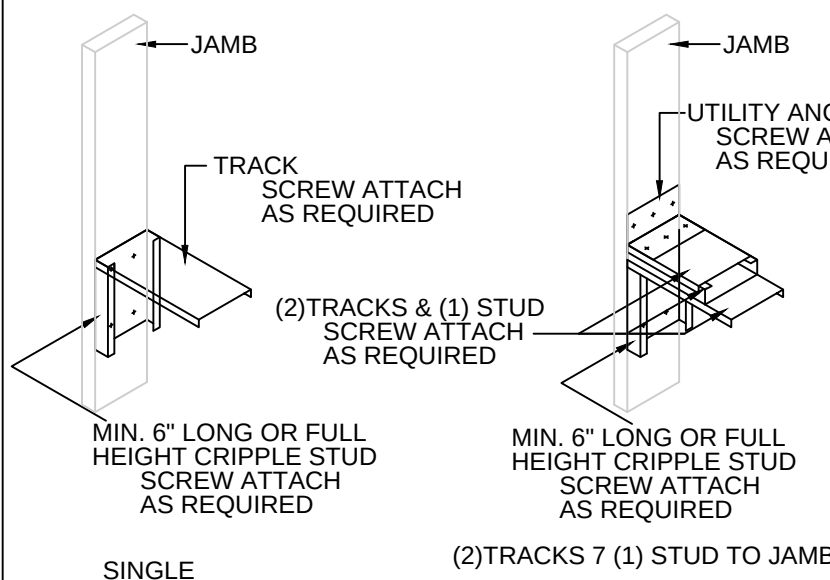
SLIDE CLIP TO STEEL BUILDING
SCALE: 1/2"=1'-0"
S303



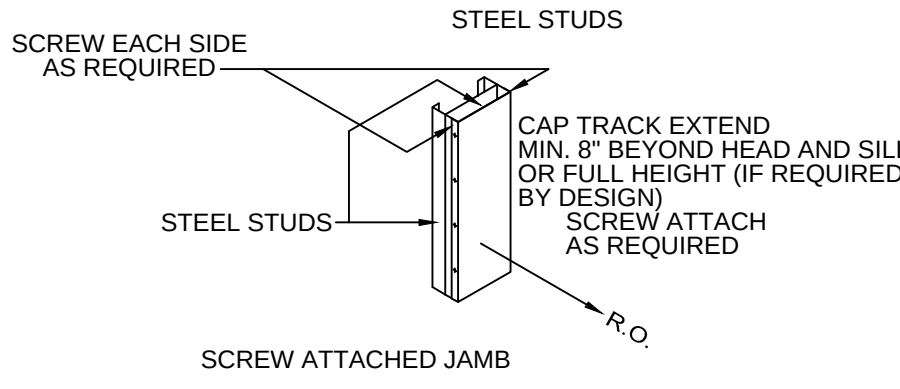
STEEL STUD DETAIL
SCALE: 3/8"=1'-0"
S303



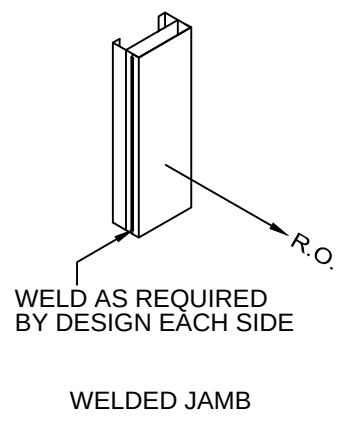
BOXED HEADER TO JAMB
SCALE: 1"=1'-0"
S303



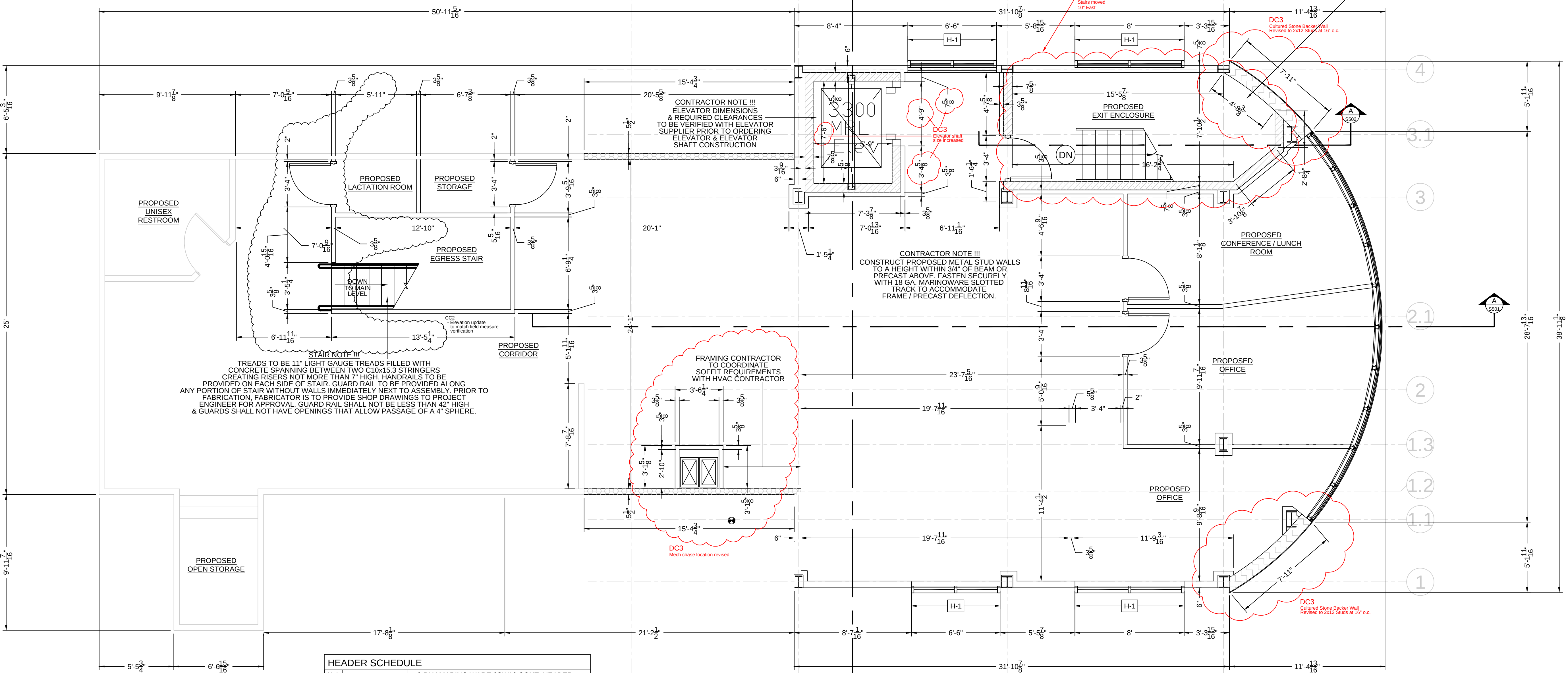
STEEL STUD SILL ASSEMBLIES
SCALE: 1"=1'-0"
S303



STEEL STUD JAMB ASSEMBLIES
SCALE: 1"=1'-0"
S303



STEEL STUD JAMB ASSEMBLIES
SCALE: 1"=1'-0"
S303



HEADER SCHEDULE	
H-1	2-PLY MARINO WARE 6SW16 CONT. HEADER W/ MARINO WARE 6T16 TRACKS

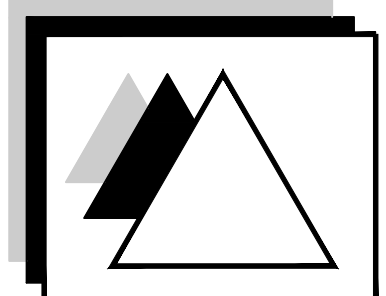
FRAMING NOTES

- ALL DIMENSIONS OUT TO OUT OF ROUGH FRAMING
- VERIFY ALL R.O. WITH WINDOW & DOOR SUPPLIERS
- PROVIDE ALL TEMPORARY/PERMANENT BRACING DURING ERECTION TO ASSURE A SAFE & STABLE STRUCTURE
- GENERAL CONTRACTOR IS RESPONSIBLE FOR REVIEWING STATE APPROVED PLAN & APPROVAL LETTER. ALL CHANGES ADDRESSED IN APPROVAL LETTER ARE TO BE MADE
- CONTRACTOR TO VERIFY ROUGH OPENINGS WITH MATERIAL SUPPLIERS - ALLOW FOR REQUIRED FINISHES (IE. DRY WALL, TRIM, ETC.)
- ALL FRAMING MATERIAL TO BE STEEL STUDS UNLESS OTHERWISE NOTED.

- LEGEND**
- EXISTING ROUGH OPENINGS WHERE WINDOWS ARE BEING REMOVED ARE TO BE FRAMED IN WITH 6SW16 GA. STEEL STUDS AND FINISHES TO MATCH THE EXISTING REMAINING WALLS. PROVIDE (2) JAMB STUDS AT ALL WINDOW OPENINGS.
 - 6SW16 STEEL STUDS AT 16" O.C. FOR EXTERIOR WALLS AND 358SW20 STEEL STUDS AT 16" O.C. FOR INTERIOR PARTITIONS.
 - SPF#2 2x6 STUDS AT 16" O.C. WITH SINGLE BOTTOM PLATE AND DOUBLE TOP PLATE.
 - 8" CMU WALLS - REFER TO MASONRY SHEETS

CONTRACTOR NOTE !!!
ADEQUATELY SPRAY FOAM INSULATE ALL FASTENER PENETRATIONS THROUGH EXTERIOR ENVELOPE TO AVOID COLD TRANSFER AND CONDENSATION.

UPPER LEVEL FRAMING AND DIMENSIONING PLAN
SCALE: 1/4"=1'-0"
S303



DELTA 3 ENGINEERING, INC.
Professional Civil-Municipal & Structural Engineering, Grant Writing, Land Development Planning & CAD Services
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Platteville, Wisconsin 53818
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**PSSI
OFFICE REMODEL / ADDITION**
3681 PRISM LANE, KIELER, WI 53812

REVISIONS:		
NO.	DATE	DESCRIPTION
DC2	8/9/14	Stairs moved 10" East
DC3	9/23/14	Revised to 2x12 at 16" o.c.
	10/29/14	Revised to 2x12 at 16" o.c.
	11/4/14	Mech chase location revised
CC2	12/5/14	Revisions as noted

For Construction	
PROJECT NUMBER	D14-041
SHEET SCALE	AS NOTED
DRAWN BY	J.Baile
DATE ISSUED	August 31, 2015
SHEET NUMBER	S303

FOR SLAB: COMMON OR 25.4mm.

a. INCH OR BOX NAILS ARE PERMITTED TO USE, EXCEPT WHERE OTHERWISE STATED.

b. NAILS SPACED AT 6 INCHES ON CENTER AT EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES AT SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE.

c. FOR NAILING OF WOOD STRUCTURAL PANEL, AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.

d. COMMON OR DEFORMED SHANK.

e. COMMON.

f. DEFORMED SHANK.

g. CORROSION RESISTING OR CASING NAIL.

h. FASTENERS SPACED 3 INCHES ON CENTER AT EXTERIOR EDGES AND 6 INCHES ON CENTER AT EXTERIOR EDGES AND 6 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR 1/2 INCH DIAMETER HEAD AND 1 1/2 INCH SHEATHING AND 1 3/4 INCH SHEATHING.

i. CORROSION STAIN WITH NOMINAL 7/16 INCH CROWN AND 1 1/8 INCH LENGTH FOR 12 INCH SHEATHING AND 1 1/2 INCH SPF FOR 25/52 INCH SHEATHING. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).

j. FASTENERS SPACED AT 24 INCHES, CROWN OR FINISH NAILS SPACED 6 INCHES ON CENTER AT PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS.

k. FASTENERS SPACED AT 24 INCHES, CROWN OR FINISH NAILS SPACED 6 INCHES ON CENTER AT PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS.

l. STRIPS SHALL HAVE MINIMUM CROWNING OF 7/16 INCH

m. FASTENERS APPLICATIONS, FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS.

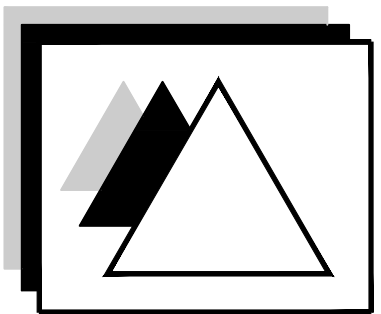
n. FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS FOR SUB FLOOR AND WALL SHEATHING AND 3 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS FOR FLOOR SHEATHING.

o. FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS



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

SHEET NUMBER	S304
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OFFICE REMODEL / ADDITION

3881 PRISM LANE, KIELER, WI 5312

MASONRY NOTES:

1. ALL MASONRY MATERIALS TO BE STORED SUCH THAT THEY REMAIN ABOVE FREEZING AND FREE OF ICE AND SNOW.
2. ALL MORTAR TO BE TYPE N OR S UNLESS OTHERWISE NOTED. OTHERWISE NOTED.
3. ALL CMU BLOCKS TO HAVE A MINIMUM $f_m=1,500$ P.S.I. UNLESS OTHERWISE NOTED.
4. ALL REINFORCING TO BE PLACED IN THE CENTER OF GROUTED CELLS UNLESS OTHERWISE NOTED.
5. FOR HOT WEATHER MASONRY REFER TO TMS MSJC SPECIFICATION.
6. FOR COLD WEATHER MASONRY REFER TO TMS MSJC SPECIFICATION.
A) COLD WEATHER IS DEFINED AS WHEN THE AMBIENT TEMPERATURE IS BELOW 40° F.
1) TEMPERATURE 32° TO 40° F.
a) MORTAR TEMPERATURE TO BE BETWEEN 40 AND 120° F AT THE TIME OF MIXING.
2) TEMPERATURE 25 TO 32° F.
a) MORTAR TEMPERATURE TO BE BETWEEN 40 AND 120° F AT THE TIME OF MIXING.
b) MORTAR TEMPERATURE TO REMAIN ABOVE FREEZING UNTIL PLACEMENT.
c) GROUT TEMPERATURE TO BE BETWEEN 40 AND 120° F AT THE TIME OF MIXING.
d) GROUT TEMPERATURE TO BE ABOVE 70° F AT THE TIME OF PLACEMENT.
7. $3/8"$ BRICK EXPANSION JOINTS ARE TO BE PROVIDED WITHIN $8'$ OF ALL BUILDING CORNERS, AT A MAXIMUM OF $16'$ O.C. AND AT ALL BRICK BEARING ELEVATION CHANGE.
8. HORIZONTAL JOINT REINFORCING EVERY SECOND COURSE (GROUT WALL OR SIMILAR: 9 G.A. MIN.)
9. MORTAR TO COMPLY WITH PROPORTION REQUIREMENTS OF ASTM C 270

3) TEMPERATURE BELOW 25° F:
a) SAME PROVISIONS AS 6.A.2 AND:
b) HEAT MASONRY TO 40° F BEFORE GROUTING.
c) PROVIDE AN ENCLOSURE AND AUXILIARY HEAT TO MAINTAIN AIR TEMPERATURE ABOVE 32° F.

4) PROTECTION OF NEWLY PLACE MASONRY.
a) PROVIDE WEATHER RESISTIVE MEMBRANE AND AUXILIARY HEAT TO ENSURE MASONRY TEMPERATURE DOES NOT DROP BELOW 32° F FOR A PERIOD OF AT LEAST 48 HOURS.

ELEVATOR BOND BEAM NOTES !!!
COURSES 1,15,16,34,35, AND TOP TWO COURSE ARE TO BE CONTINUOUS BOND BEAMS WITH A SINGLE #5 REINFORCEMENT.
WALLS ARE TO BE REINFORCED VERTICALLY AT $32"$ O.C. W/ #5 VERTICAL BARS AND GROUTED FULL. WALLS ARE TO BE REINFORCED HORIZONTALLY WITH HOHMANN & BARNARD LADDER REINFORCEMENT AT $16"$ O.C.

STAIR TOWER BOND BEAM NOTES!!!
COURSES 1,8,9,16,17,25,26,34,35, AND TOP TWO COURSE ARE TO BE CONTINUOUS BOND BEAMS WITH A SINGLE #5 REINFORCEMENT.
WALLS ARE TO BE REINFORCED VERTICALLY AT $32"$ O.C. W/ #5 VERTICAL BARS AND GROUTED FULL. WALLS ARE TO BE REINFORCED HORIZONTALLY WITH HOHMANN & BARNARD LADDER REINFORCEMENT AT $16"$ O.C.

CONTRACTOR NOTE !!!
ELEVATOR DIMENSIONS & REQUIRED CLEARANCES TO BE VERIFIED WITH ELEVATOR SUPPLIER PRIOR TO ORDERING ELEVATOR & ELEVATOR SHAFT CONSTRUCTION

5/8" A36 OR A307 THREADED ROD EMBED THREADED ROD A MIN. OF $5"$ INTO PROPOSED BOND BEAM. DRILL HOLES USING PNEUMATIC DRILL W/ $3/4"$ HOLLOW STEM BIT. EPOXY DOWELS USING SIMPSON STRONG TIE "SET" EPOXY ADHESIVE.
PRECAST & OVER POUR
PRECAST & OVER POUR
WELD 5/8x1/4x4" ANGLE TO BEAM W/ $1"x3/16"$ E70XX FILLET WELD STEEL BEAM

STEEL TO MASONRY CLIP DETAIL
SCALE: $1/2"=1'-0"$

LINTEL SCHEDULE	
L-1	(2) COURSE BOND BEAM CMU UNITS W/ (2) #5 CONT. BAR. CELLS FULLY GROUTED BEARING: $8"$ MIN. EACH SIDE (R.O. VARIES)
L-2	5"x3 1/2"x3/8" STEEL ANGLE LOOSE LINTEL BEARING: $8"$ MIN. EACH SIDE (R.O. VARIES)

LEGEND

- 8" CMU WALLS WITH REINFORCING AT $32"$ O.C. VERTICALLY AND REINFORCED CELLS GROUTED FULL. HORIZONTAL REINFORCEMENT AT $16"$ O.C.
- MODULAR BRICK WITH HOHMANN & BARNARD X-SEAL HOT DIP GALVANIZED BRICK TIES AT $16"$ O.C. EACH WAY, POLY GUARD BASE FLASHING, AND WEEP HOLES

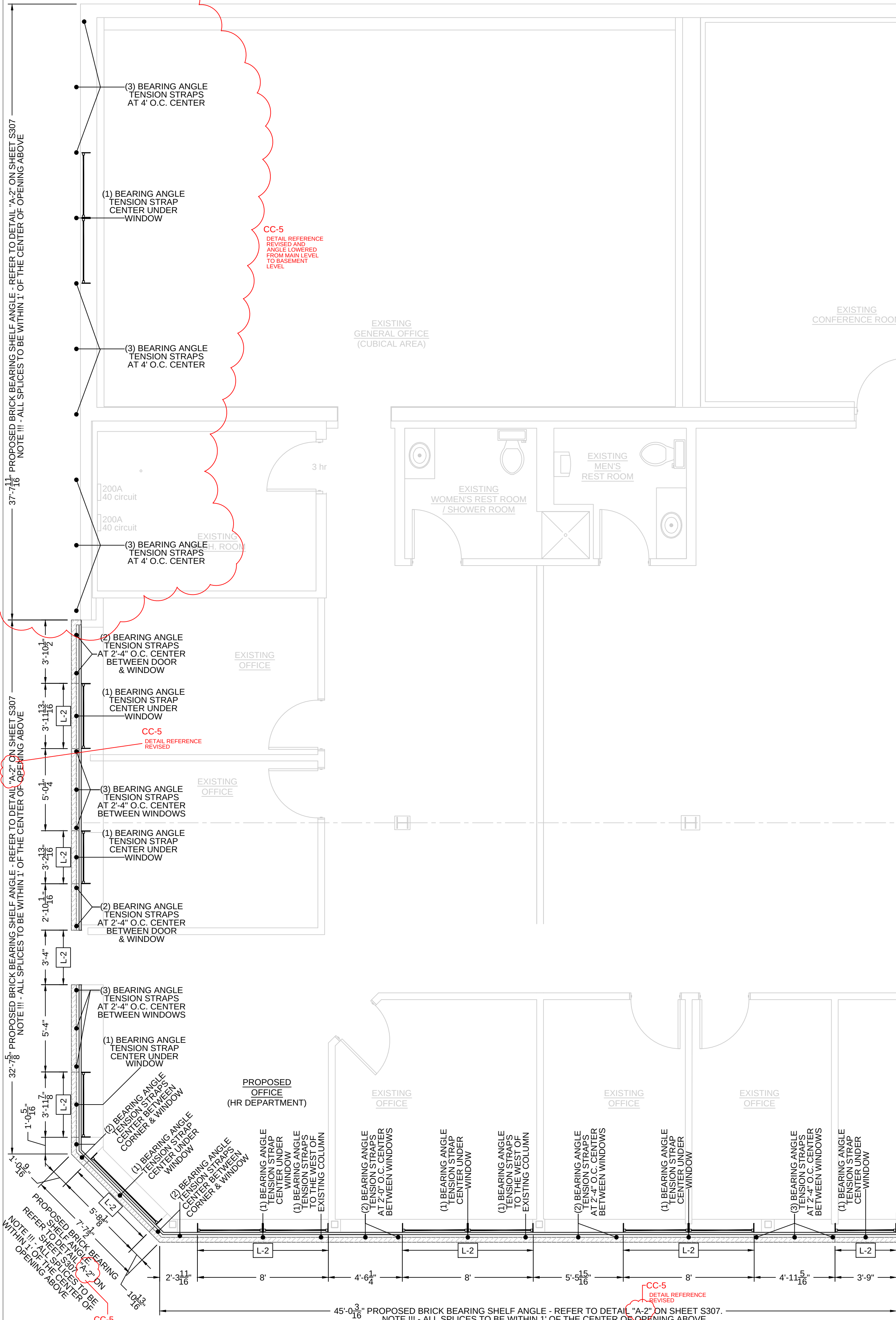
BASEMENT LEVEL MASONRY PLAN
SCALE: $1/4"=1'-0"$

S305

REVISIONS:		
NO.	DATE	DESCRIPTION
DC-1	08/14	Stairs moved 10' East
DC-3	10/29/14	Elevator shaft rev.
CC-5	4/23/15	Base angle revisions

For Construction

PROJECT NUMBER	D14-041
SHEET SCALE	AS NOTED
DRAWN BY	J.Baile
DATE ISSUED	August 31, 2015
SHEET NUMBER	S305



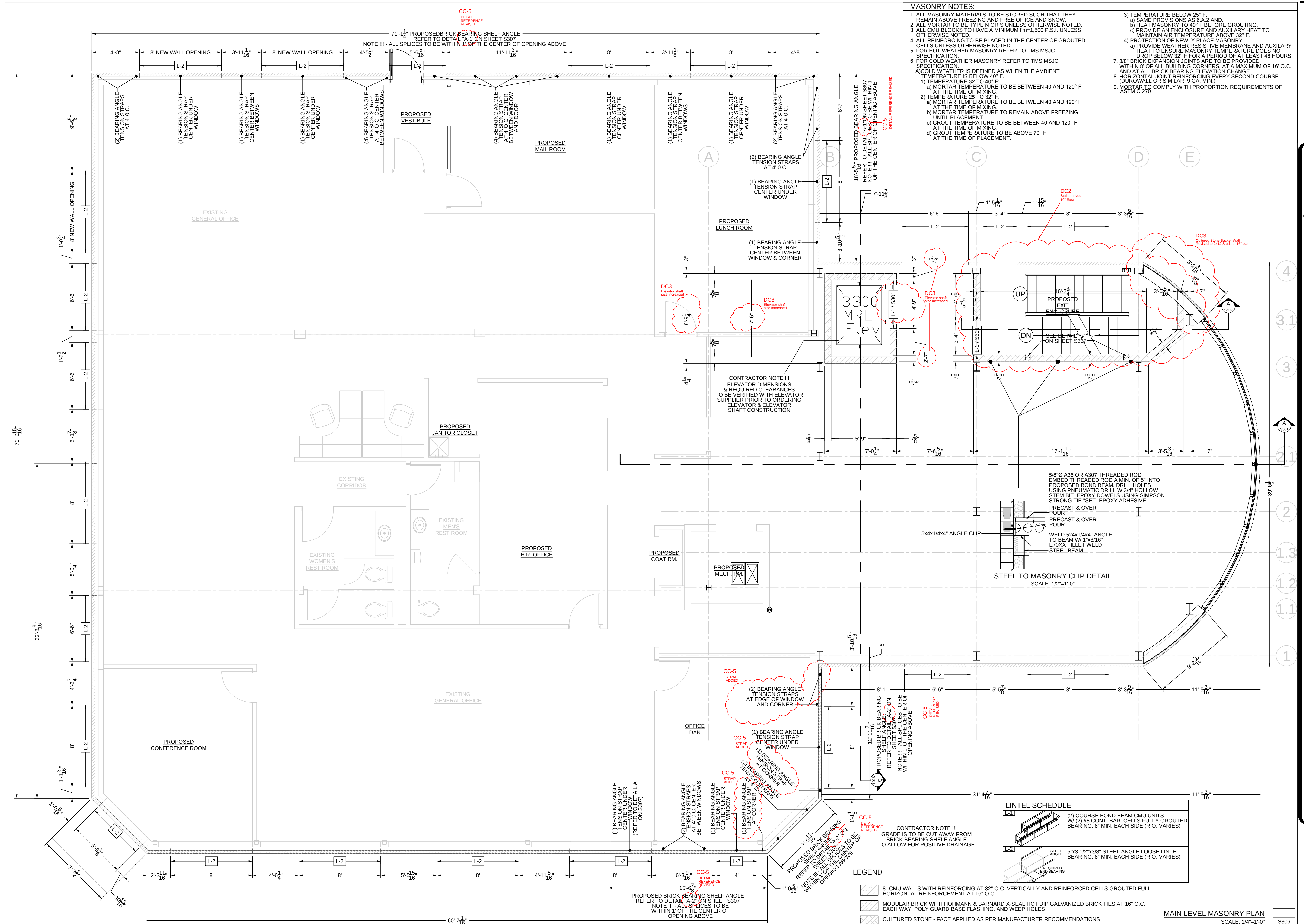


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ECT BER	D14-041
ET LE	AS NOTED
WN y	J.Bailie
FE ED	August 31, 2015



MASONRY NOTES:

1. ALL MASONRY MATERIALS TO BE STORED SUCH THAT THEY REMAIN ABOVE FREEZING AND FREE OF ICE AND SNOW.
2. ALL MORTAR TO BE TYPE N OR S UNLESS OTHERWISE NOTED.
3. ALL CMU BLOCKS TO HAVE A MINIMUM fm=1,500 P.S.I. UNLESS OTHERWISE NOTED.
4. ALL REINFORCING TO BE PLACED IN THE CENTER OF GROUTED CELLS UNLESS OTHERWISE NOTED.
5. FOR HOT WEATHER MASONRY REFER TO TMS MSJC SPECIFICATION.
6. FOR COLD WEATHER MASONRY REFER TO TMS MSJC SPECIFICATION.

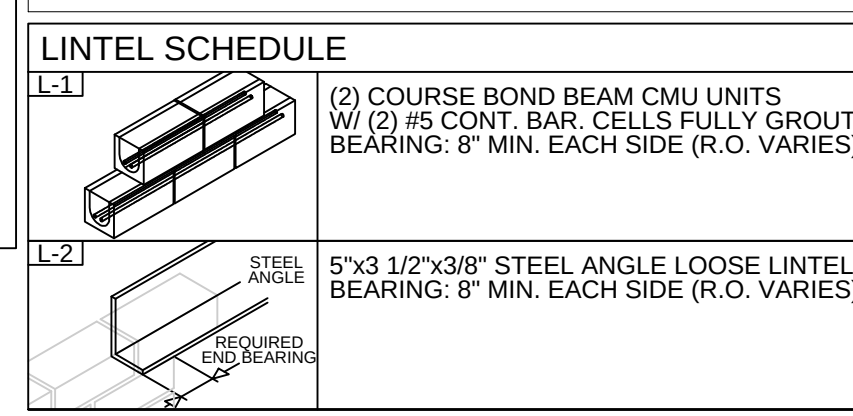
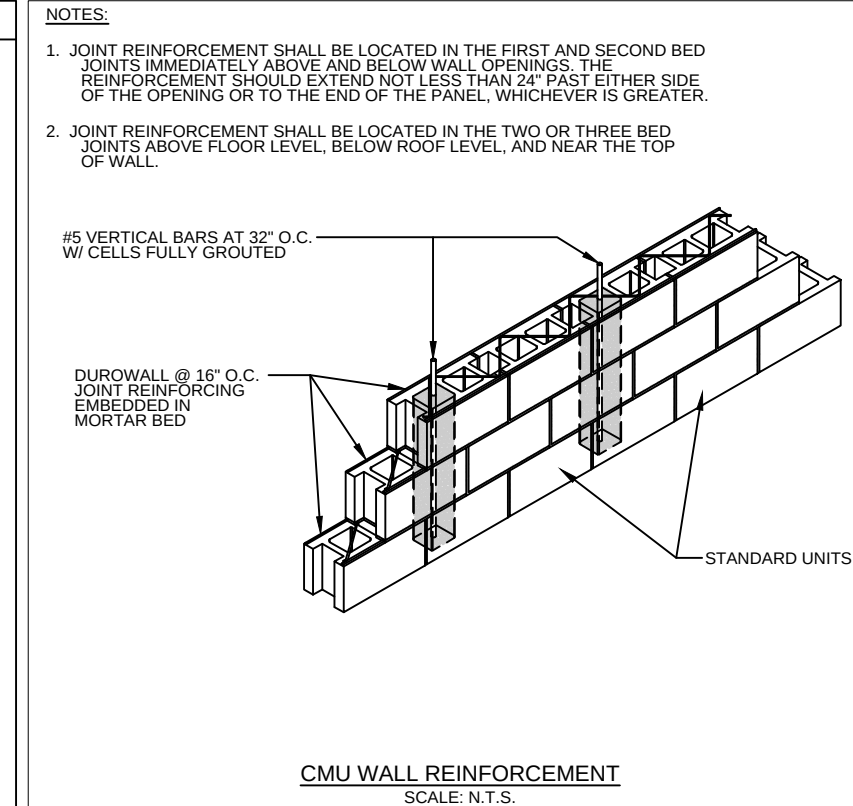
A) COLD WEATHER IS DEFINED AS WHEN THE AMBIENT TEMPERATURE IS BELOW 40° F.

- 1) TEMPERATURE 32° TO 40° F:
 - a) MORTAR TEMPERATURE TO BE BETWEEN 40 AND 120° F AT THE TIME OF MIXING.
- 2) TEMPERATURE 25° TO 32° F:
 - a) MORTAR TEMPERATURE TO BE BETWEEN 40 AND 120° F AT THE TIME OF MIXING.
 - b) MORTAR TEMPERATURE TO REMAIN ABOVE FREEZING UNTIL PLACEMENT.
- 3) TEMPERATURE 20° TO 25° F:
 - a) GROUT TEMPERATURE TO BE BETWEEN 40 AND 120° F AT THE TIME OF MIXING.
 - b) GROUT TEMPERATURE TO BE ABOVE 70° F AT THE TIME OF PLACEMENT.
- 4) TEMPERATURE BELOW 20° F:
 - a) SAME PROVISIONS AS 6.A.2 AND:
 - b) HEAT MASONRY TO 40° F BEFORE GROUTING.
 - c) PROVIDE AN ENCLOSURE AND AUXILIARY HEAT TO MAINTAIN AIR TEMPERATURE ABOVE 32° F.

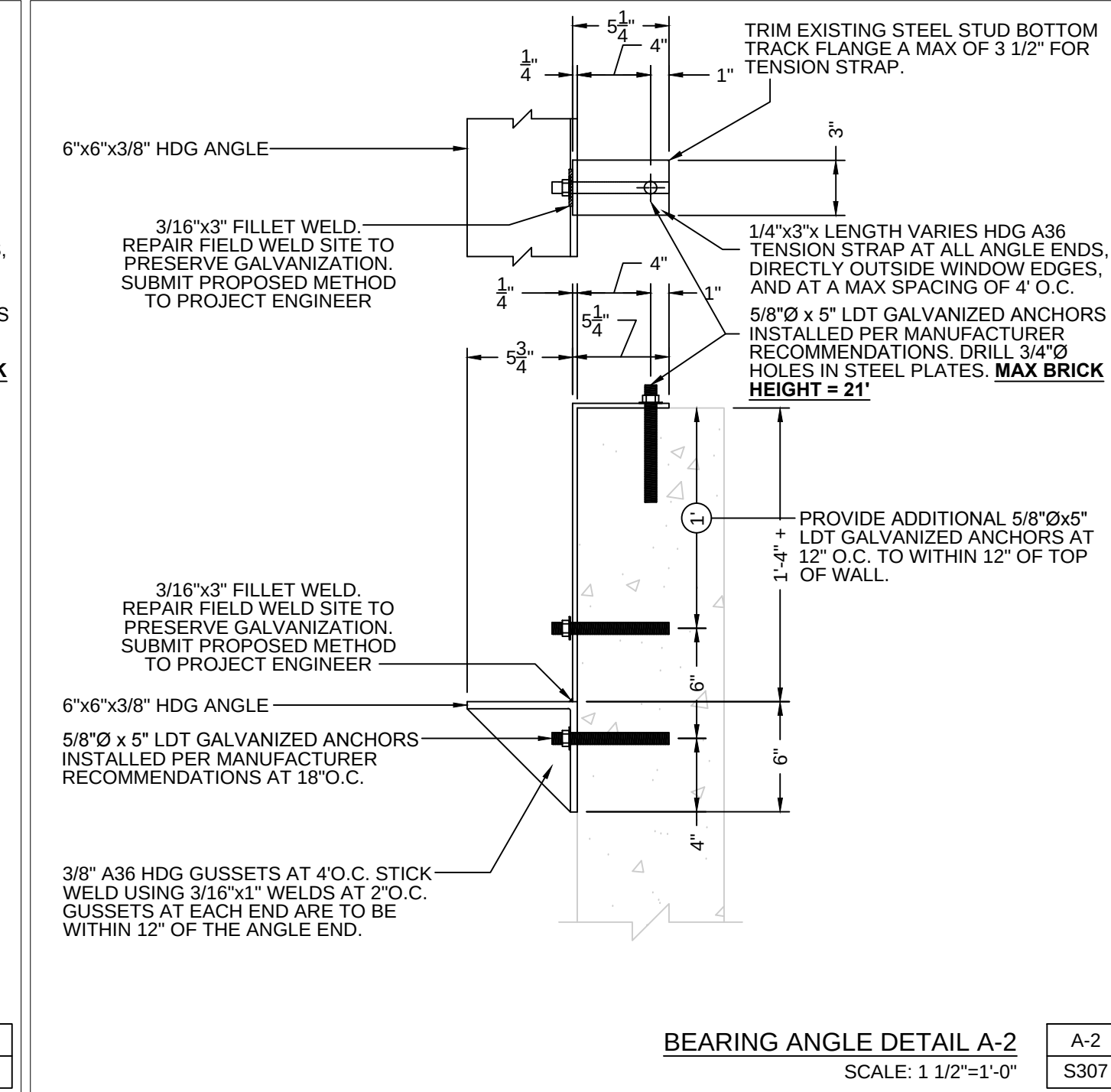
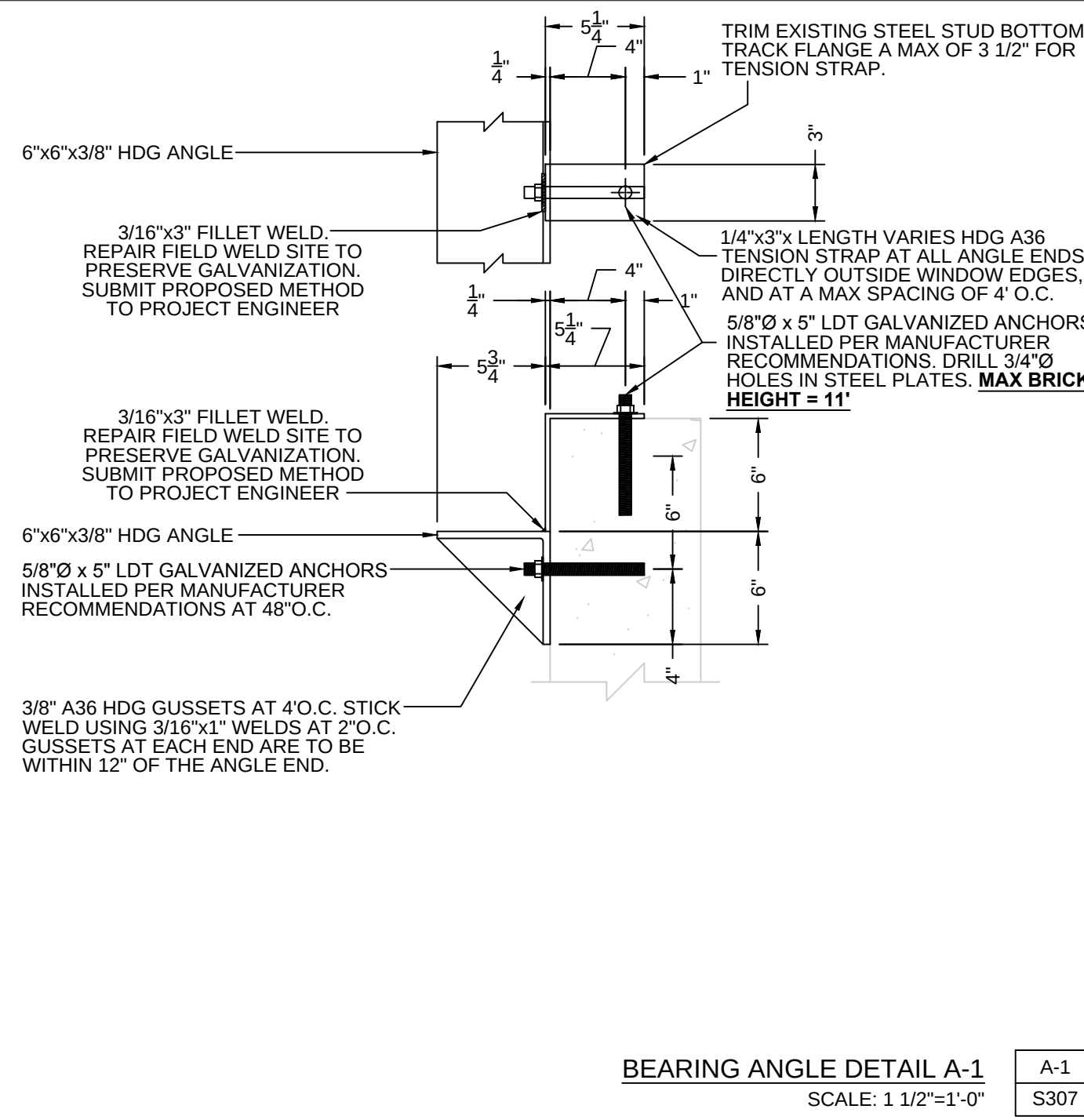
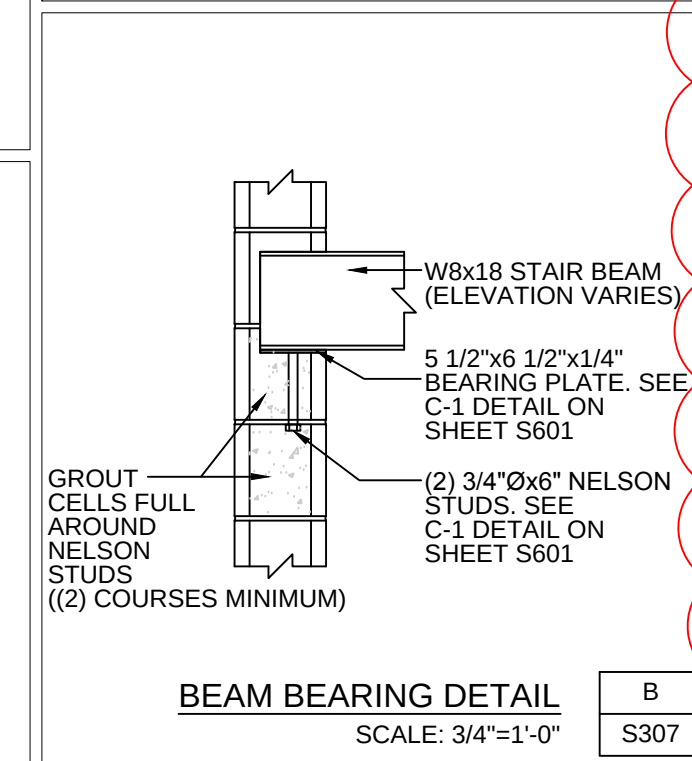
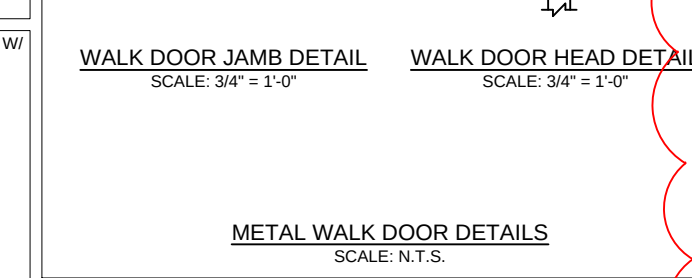
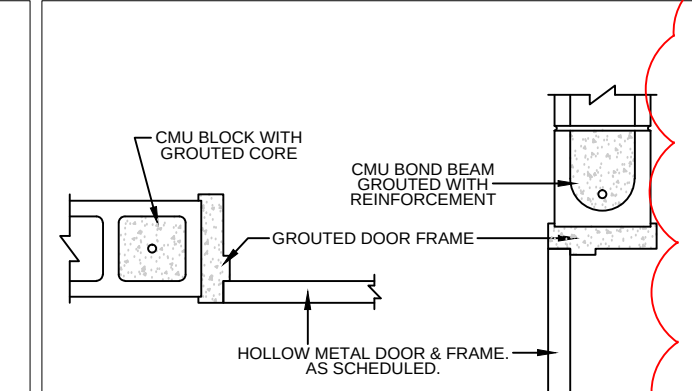
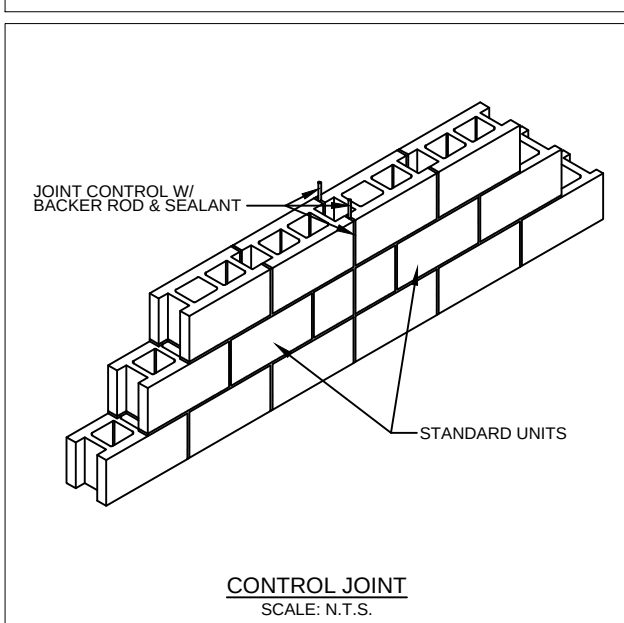
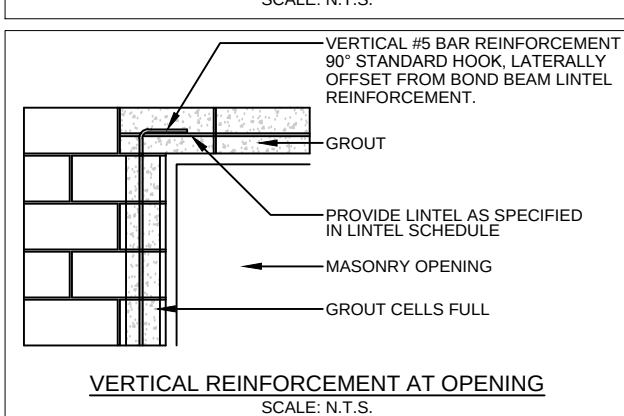
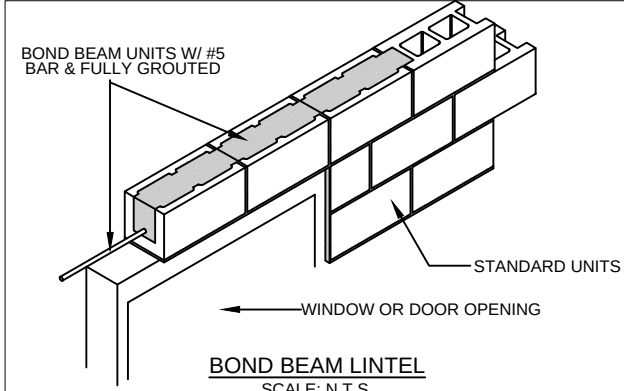
C) PROTECTION OF NEWLY PLACE MASONRY:

- a) PROVIDE WEATHER RESISTIVE MEMBRANE AND AUXILIARY HEAT TO ENSURE MASONRY TEMPERATURE DOES NOT DROP BELOW 32° F FOR A PERIOD OF AT LEAST 48 HOURS.

7. 3/8" BRICK EXPANSION JOINTS ARE TO BE PROVIDED WITHIN 8' OF ALL BUILDING CORNERS, AT A MAXIMUM OF 16' O.C. AND AT ALL BRICK BEARING ELEVATION CHANGE.
8. HORIZONTAL JOINT REINFORCING EVERY SECOND COURSE (DUROWALL OR SIMILAR: 9 GA. MIN.)
9. MORTAR TO COMPLY WITH PROPORTION REQUIREMENTS OF ASTM C 270



- LEGEND**
- 8" CMU WALLS WITH REINFORCING AT 32" O.C. VERTICALLY AND REINFORCED CELLS GROUTED FULL. HORIZONTAL REINFORCEMENT AT 16" O.C.
 - MODULAR BRICK WITH HOHMANN & BARNARD X-SEAL HOT DIP GALVANIZED BRICK TIES AT 16" O.C. EACH WAY, POLY GUARD BASE FLASHING, AND WEEP HOLES
 - CULTURED STONE - FACE APPLIED AS PER MANUFACTURER RECOMMENDATIONS

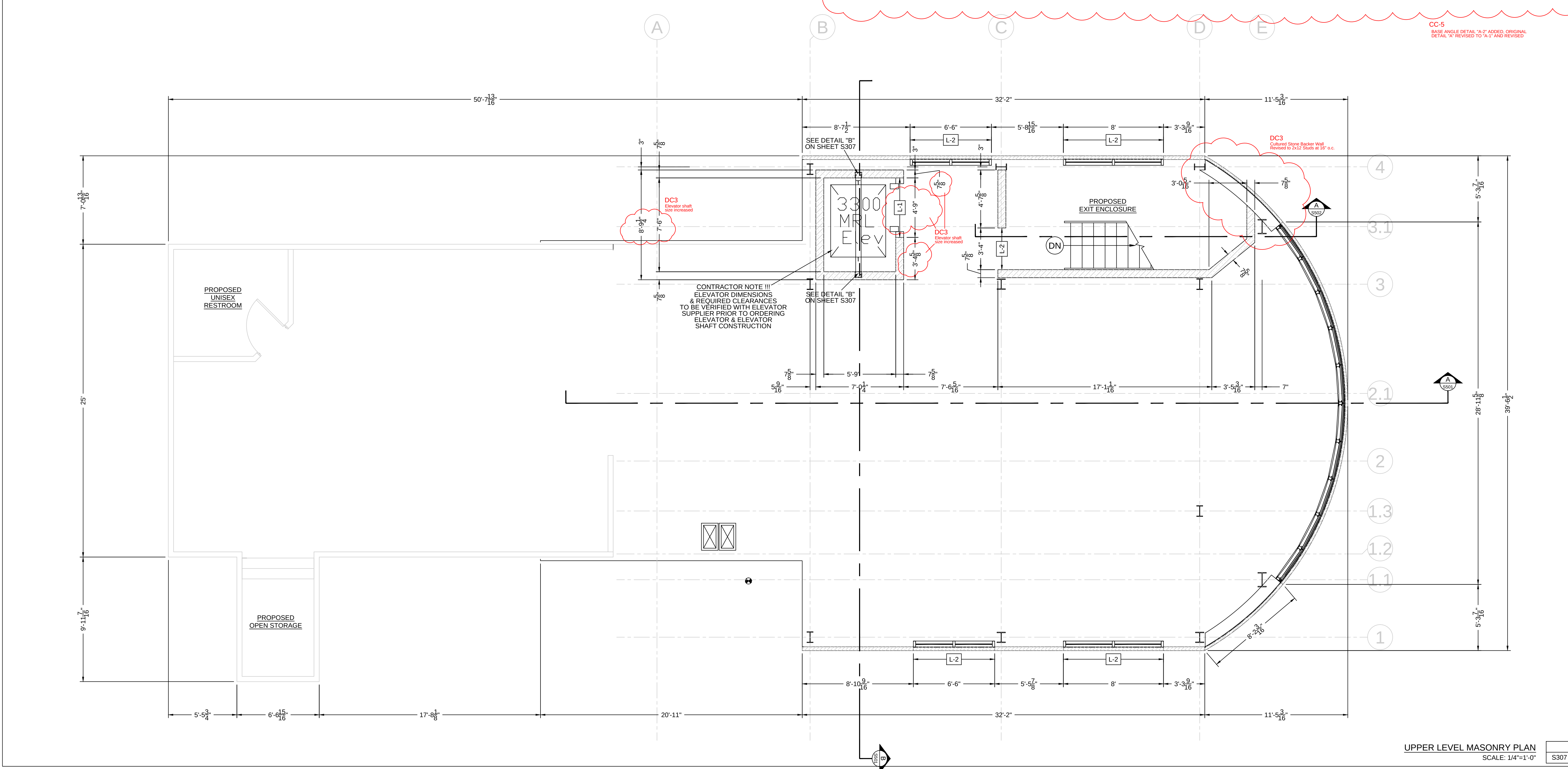


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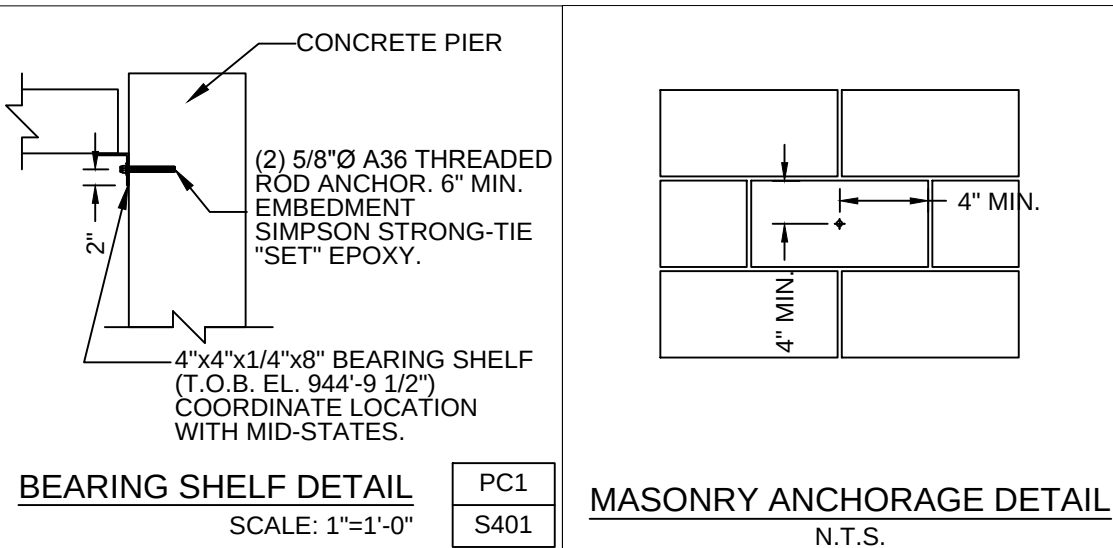
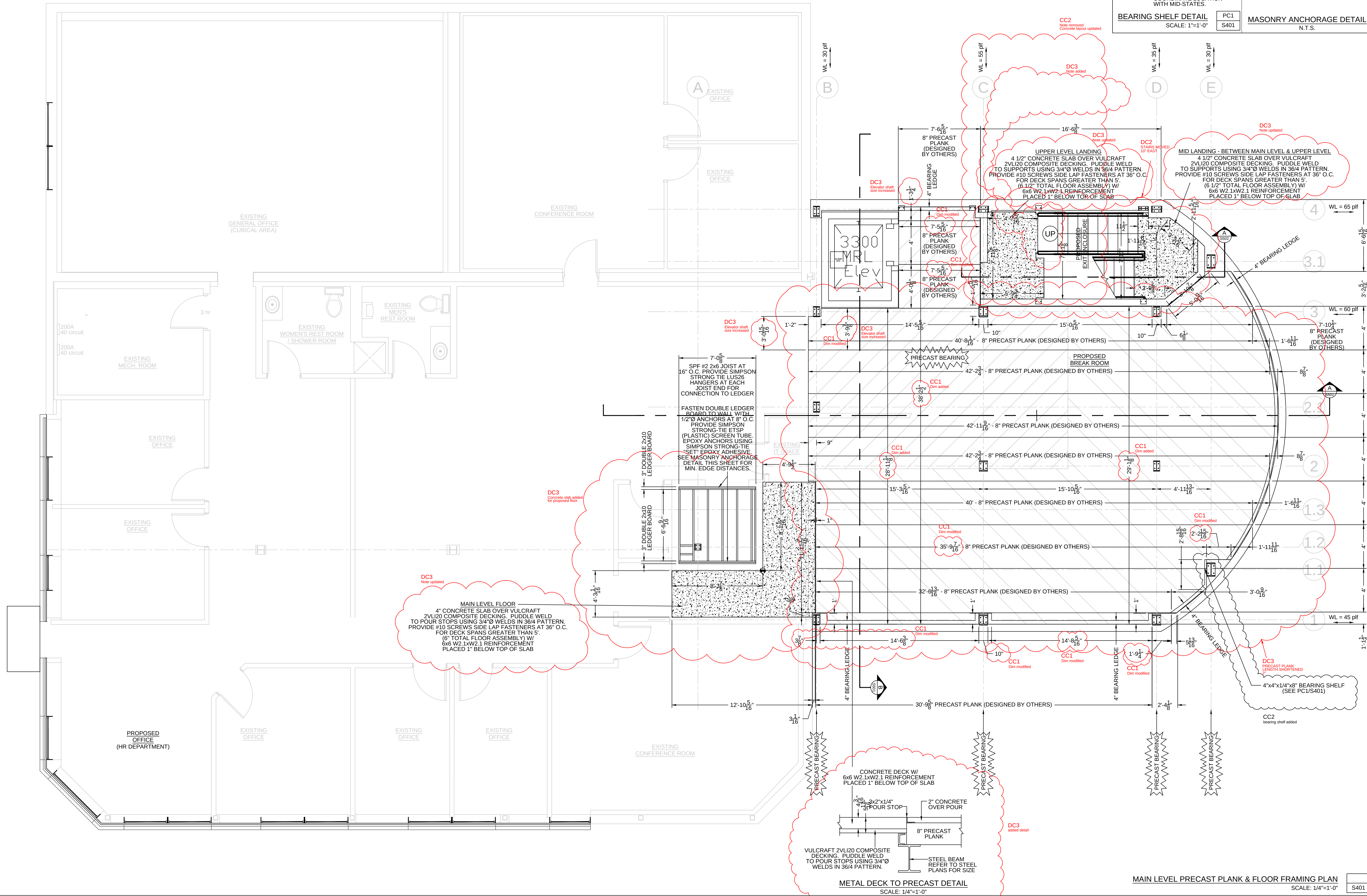
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3681 PRISM LANE, KIELER, WI 53812

 100 psf LIVE LOAD

 50 psf LIVE LOAD

- PROVIDE 10 psf SUPERIMPOSED DEAD LOAD OVER ALL FLOOR AREAS.
- PRECAST PLANKS ARE TO BE CONNECTED TO STEEL FRAMING AT 48" O.C. MAX
- ALL LATERAL LOADS ARE UNFACTORED WIND LOADS.



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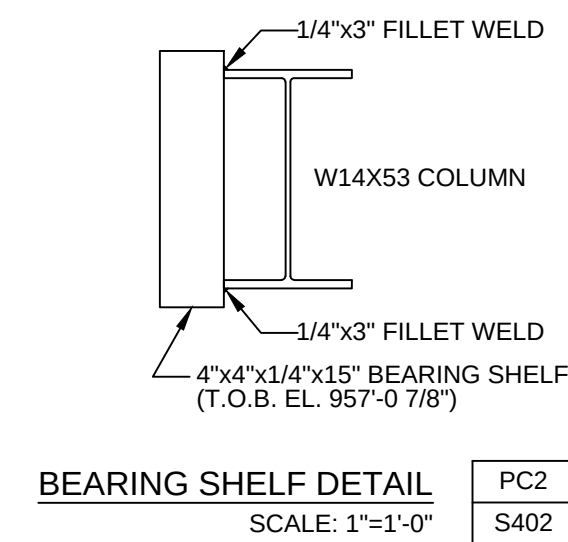
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REVISIONS:		
NO.	DATE	DESCRIPTION
DC2	8/8/14	Stairs moved 30" East
DC3	10/29/14	Precast plank length changed
DC3	10/29/14	Elevator shaft rev
DC3	11/4/14	Concrete floor added
DC3	11/4/14	CCC to precast floor detail added
DC3	11/4/14	Notes added and updated
CC1	11/24/14	Precast dim modified for 1/2" clearance at masonry
CC1	11/24/14	Dimensions added
CC2	12/9/14	Note removed
CC2	12/18/14	Concrete board updated
CC2	12/18/14	beaming shelf added

For Construction

PROJECT NUMBER	D14-041
SHEET SCALE	AS NOTED
DRAWN BY	J.Baillie
DATE ISSUED	August 31, 2015
SHEET NUMBER	S401



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For Construction

PROJECT NUMBER	D14-041
SHEET SCALE	AS NOTED
DRAWN BY	J.Baillie
DATE ISSUED	August 31, 2015
SHEET NUMBER	S402



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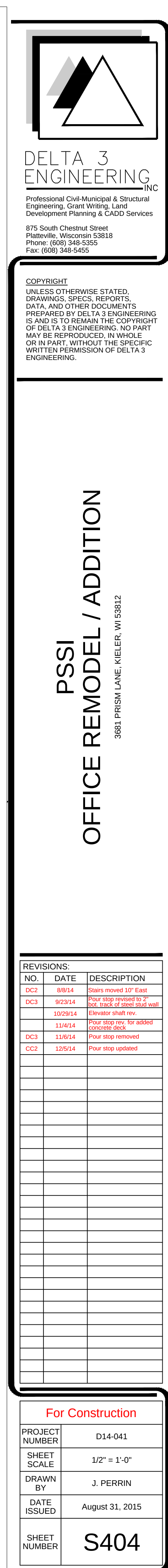
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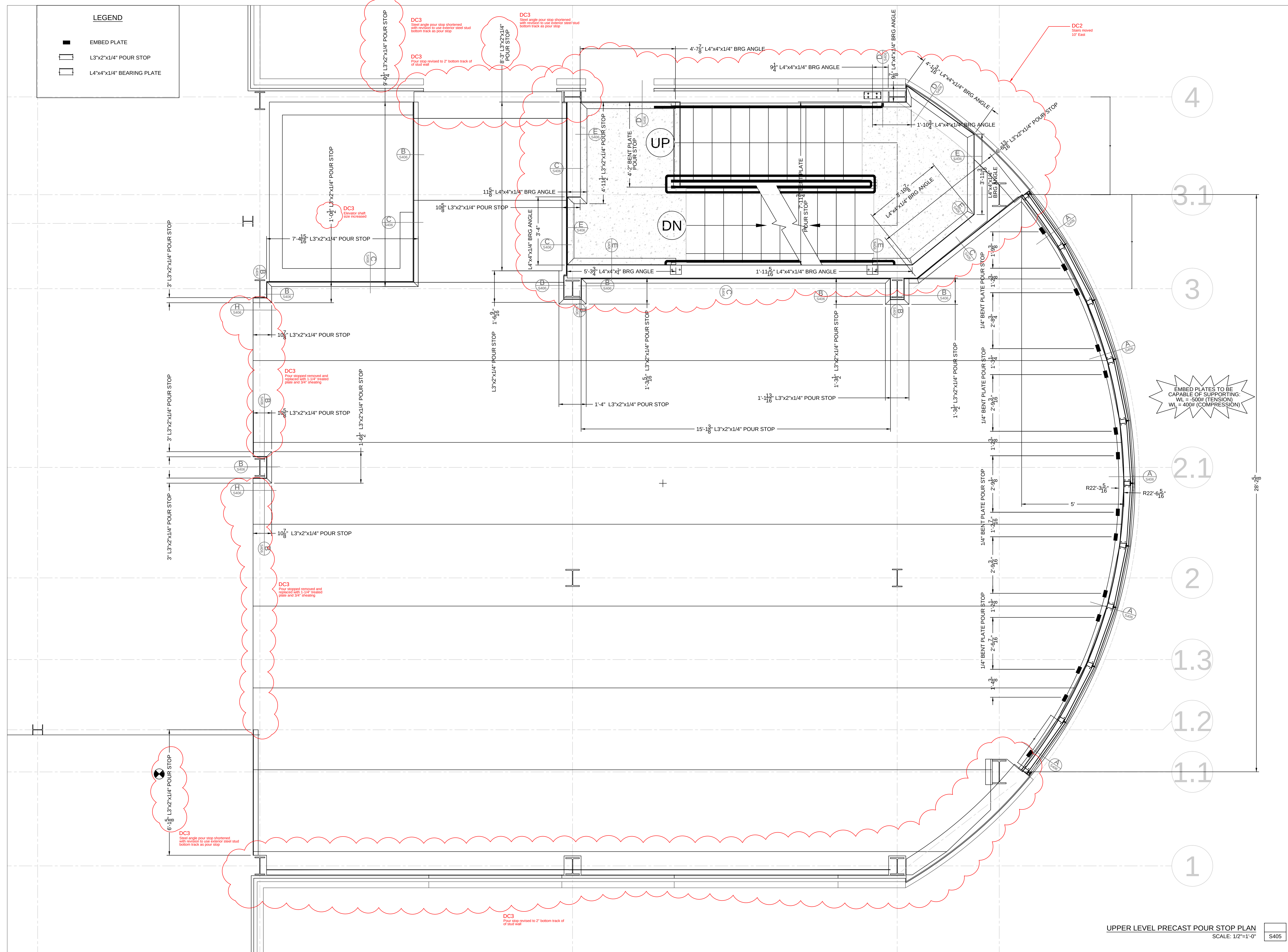
PROJECT NUMBER	D14-041
SHEET SCALE	AS NOTED
DRAWN BY	J. Perrin
DATE ISSUED	August 31, 2015

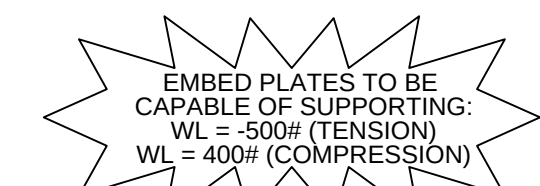
SHEET
NUMBER



C:\Projects\2014\14-041 Kaisers 2014 Office Addition\CAD\Structural\S401, S402, S403 -- Precast Plan.dwg, S403, 2/25/2016 2:32:34 PM, leiboldj







POUR STOP AT CURTAIN WALL DETAIL
SCALE: 1-1/2"=1'-0"

POUR STOP DETAIL
SCALE: 1-1/2"=1'-0"

PRECAST TO CMU WALL DETAIL
SCALE: 3"=1'-0"

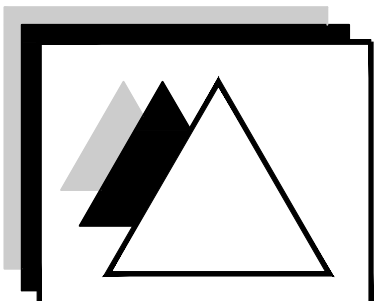
DECK TERMINATION ON BEAM
SCALE: 3"=1'-0"

DECK TERMINATION INTO WALL
SCALE: 3"=1'-0"

STRINGER CONNECTION TO BEAM
SCALE: 3"=1'-0"

WOOD SUBFLOOR TO PRECAST TRANSITION DETAIL
SCALE: 1-1/2"=1'-0"

For Construction	
PROJECT NUMBER	D14-041
SHEET SCALE	AS NOTED
DRAWN BY	J. PERRIN
DATE ISSUED	August 31, 2015
SHEET NUMBER	S406



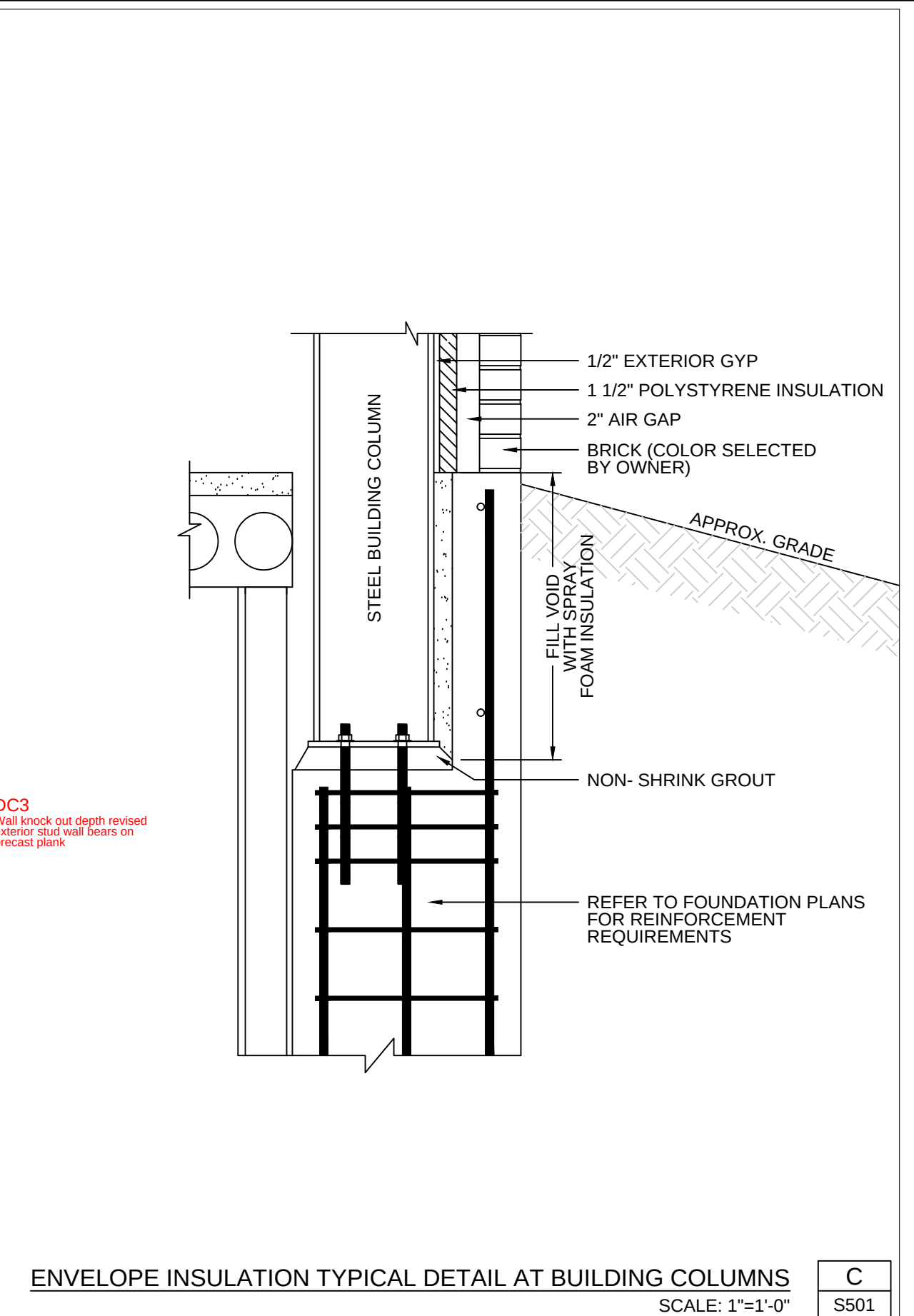
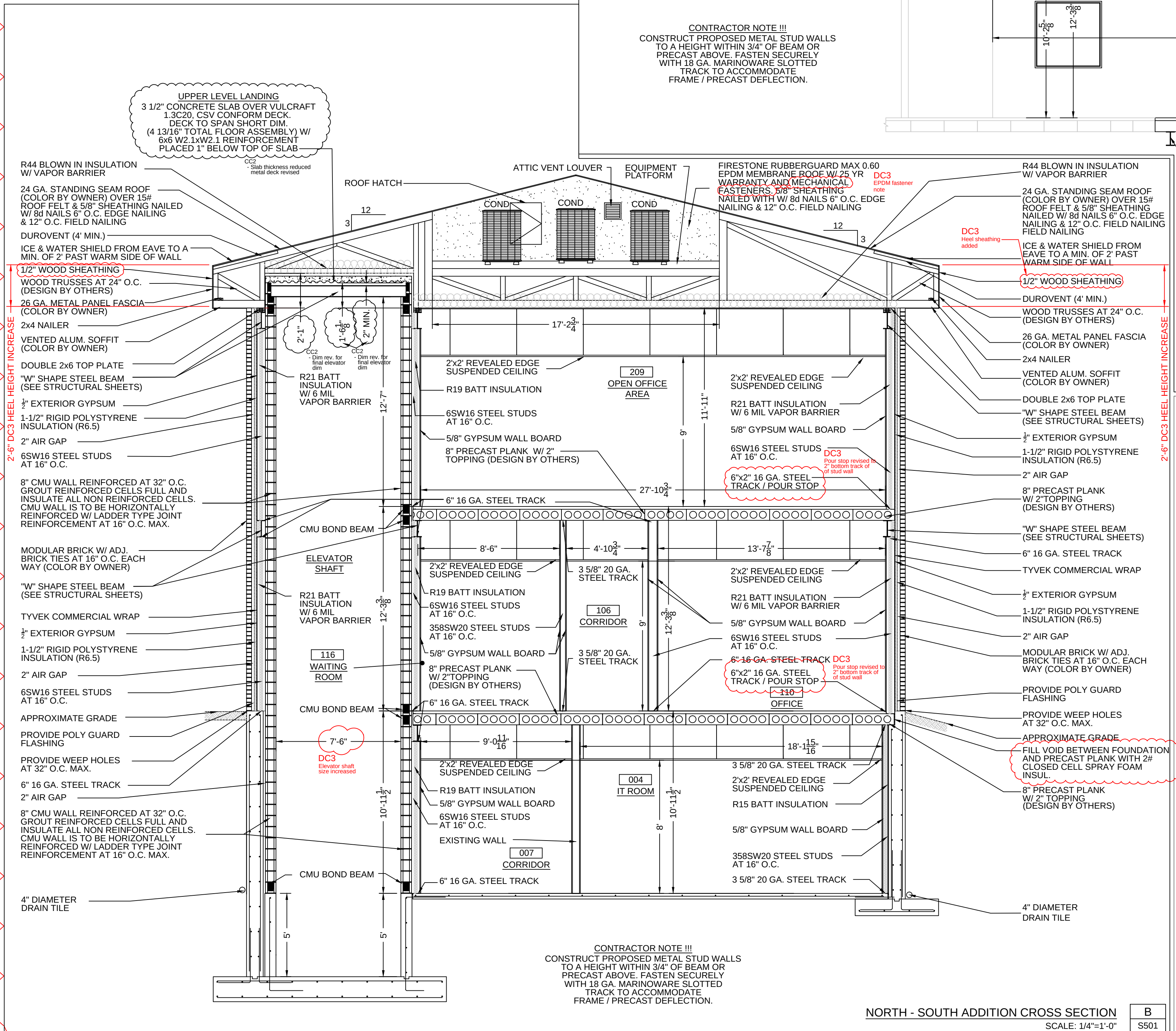
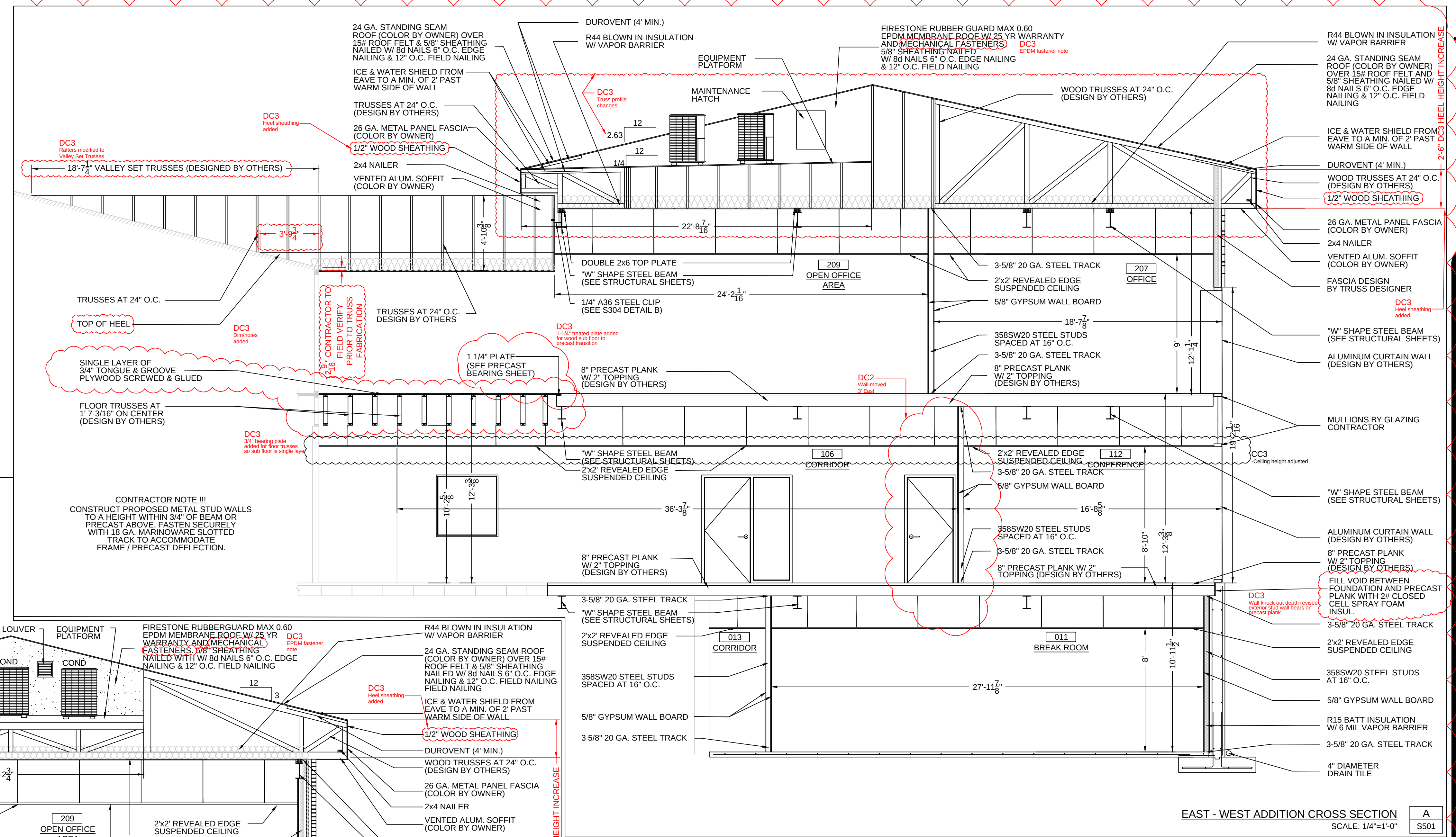
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REVISIONS:		
NO.	DATE	DESCRIPTION
DC3	9/13/14	Wall moved 2' East
DC3	9/23/14	Truss profile change
DC3	9/23/14	Heel sheathing added
DC3	9/23/14	Heel height increase
DC3	9/23/14	Knock out depth revised
DC3	9/23/14	Pour stop revised to 2\"/>
DC3	9/23/14	DimNotes added
DC3	9/23/14	Rafter modified to Valley Set Trusses
DC3	10/16/14	EPDM fastener notes
DC3	10/16/14	Heel fascia note added
DC3	10/29/14	Elevator shaft rev
DC3	11/4/14	Scissor trusses & floor truss bearing revision
DC3	11/4/14	1-Layer steel added for sub floor to precast transition
CC1	11/26/14	Elevation height updated
CC2	12/5/14	Revisions as noted
CC3	1/30/15	Main floor ceiling height changed to 8'-0"

For Construction	
PROJECT NUMBER	D14-041
SHEET SCALE	1/4" = 1'-0"
DRAWN BY	J.Baile
DATE ISSUED	August 31, 2015
SHEET NUMBER	S501

24 GA. STANDING SEAM ROOF (COLOR BY OWNER) OVER 15# ROOF FELT & 5/8" SHEATHING NAILED W/ 8d NAILS 6" O.C. EDGE NAILING & 12" O.C. FIELD NAILING

TRUSSES AT 24" O.C. (DESIGN BY OTHERS)

R44 BLOW IN INSULATION W/ VAPOR BARRIER

3-5/8" 20 GA. STEEL TRACK

2 LAYERS OF 5/8" TYPE X GYPSUM WALL BOARD

CMU BOND BEAM (SEE STRUCTURAL SHEETS)

6SW16 STEEL JOIST SPACED AT 16" O.C.

1 HOUR FIRE RATED 8" CMU WALL REINFORCED AT 32" O.C. UL DESIGN NO. U905

5/8" GYPSUM WALL BOARD

358SW20 STEEL STUDS SPACED AT 16" O.C.

L4"x4"x1/4" BEARING ANGLE

5/8"Ø A36 ANCHOR BOLTS AT 16" O.C. EMBED ANCHOR A MIN. OF 5" INTO CONCRETE WALL. DRILL DOWEL HOLES USING PNEUMATIC DRILL W/ 5/8"Ø HOLLOW STEM BIT. EPOXY DOWELS USING SIMPSON STRONG-TIE "SET" EPOXY ADHESIVE.

CMU BOND BEAM (SEE STRUCTURAL SHEETS)

3-5/8" 20 GA. STEEL TRACK

2" CONCRETE TOPPING

8" PRECAST PLANK

"W" SHAPE STEEL BEAM (SEE STRUCTURAL SHEETS)

CONTRACTOR NOTE!!!
PROVIDE 42" (MINIMUM HEIGHT) GUARD RAIL ON BOTH SIDES OF STAIRS USING 1-1/2" Ø STD. PIPE RAILS & INTERMEDIATE SUPPORTS AT 5' O.C. MAX. BOTTOM RAIL TO BE 4" ABOVE STEEL STRINGER & INTERMEDIATE BALUSTERS AT 4" O.C. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO PROJECT ENGINEER FOR APPROVAL.

CONTRACTOR NOTE!!!
PROVIDE 34" - 36" HIGH HAND RAIL ON BOTH SIDES OF STAIRS USING 1-1/2" Ø STD. PIPE RAILS. PROVIDE RAILING EXTENSIONS AS SHOWN. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO PROJECT ENGINEER FOR APPROVAL.

CONTRACTOR NOTE!!!
PROVIDE LANDINGS TO BE CONSTRUCTED OF: 4 1/2" CONCRETE SLAB OVER 2" DECKING (6 1/2" TOTAL FLOOR ASSEMBLY) W/ 6x6 W/ 1W/21 REINFORCEMENT PLACED 1" BELOW TOP OF SLAB.

STAIR NOTE !!
TREADS TO BE 11" LIGHT GAUGE TREADS FILLED WITH CONCRETE SPANNING BETWEEN TWO C10x15.3 STRINGERS CREATING RISERS NOT MORE THAN 7" HIGH. HANDRAILS TO BE PROVIDED ON EACH SIDE OF STAIR. GUARD RAIL TO BE PROVIDED ALONG ANY PORTION OF STAIR WITHOUT WALLS IMMEDIATELY NEXT TO ASSEMBLY. PRIOR TO FABRICATION, FABRICATOR IS TO PROVIDE SHOP DRAWINGS TO PROJECT ENGINEER FOR APPROVAL. GUARD RAIL SHALL NOT BE LESS THAN 42" HIGH & GUARDS SHALL NOT HAVE OPENINGS THAT ALLOW PASSAGE OF A 4" SPHERE.

2" CONCRETE TOPPING

8" PRECAST PLANK

"W" SHAPE STEEL BEAM (SEE STRUCTURAL SHEETS)

5/8"Ø A36 ANCHOR BOLTS AT 16" O.C. EMBED ANCHOR A MIN. OF 5" INTO CONCRETE WALL. DRILL DOWEL HOLES USING PNEUMATIC DRILL W/ 5/8"Ø HOLLOW STEM BIT. EPOXY DOWELS USING SIMPSON STRONG-TIE "SET" EPOXY ADHESIVE.

L4"x4"x1/4" BEARING ANGLE

1 HOUR FIRE RATED 8" CMU WALL REINFORCED AT 32" O.C. UL DESIGN NO. U905

5/8" GYPSUM WALL BOARD

358SW20 STEEL STUDS SPACED AT 16" O.C.

CMU BOND BEAM (SEE STRUCTURAL SHEETS)

3-5/8" 20 GA. STEEL TRACK

205
EXIT
ENCLOSURE

CC2
Stair well adjusted

113
EXIT
ENCLOSURE

012
EXIT
ENCLOSURE

10'-11 1/2"

1

6-11/16" RISER (7" MAX.)

11" MIN. TREAD

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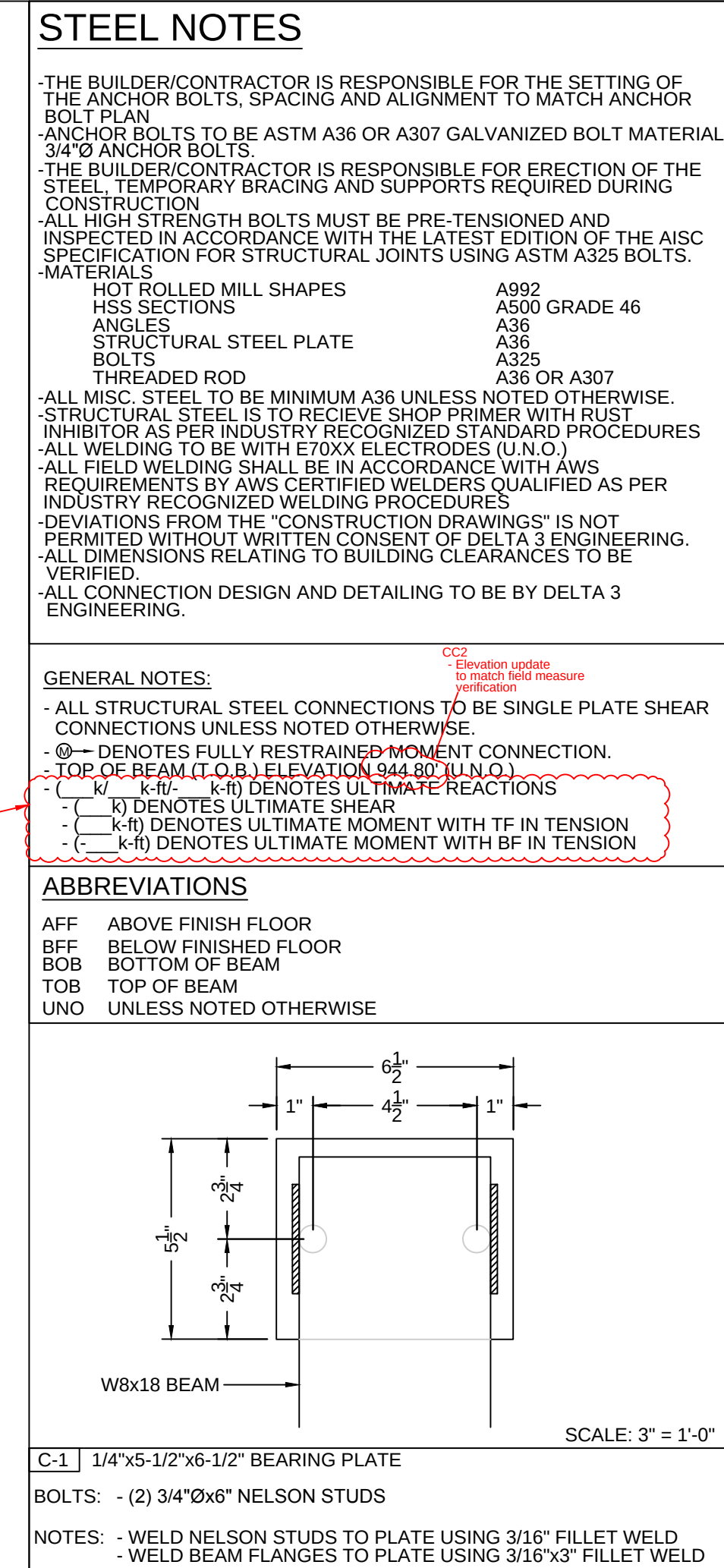
11" MIN. TREAD

6-11/16" RISER (7" MAX.)

11" MIN. TREAD

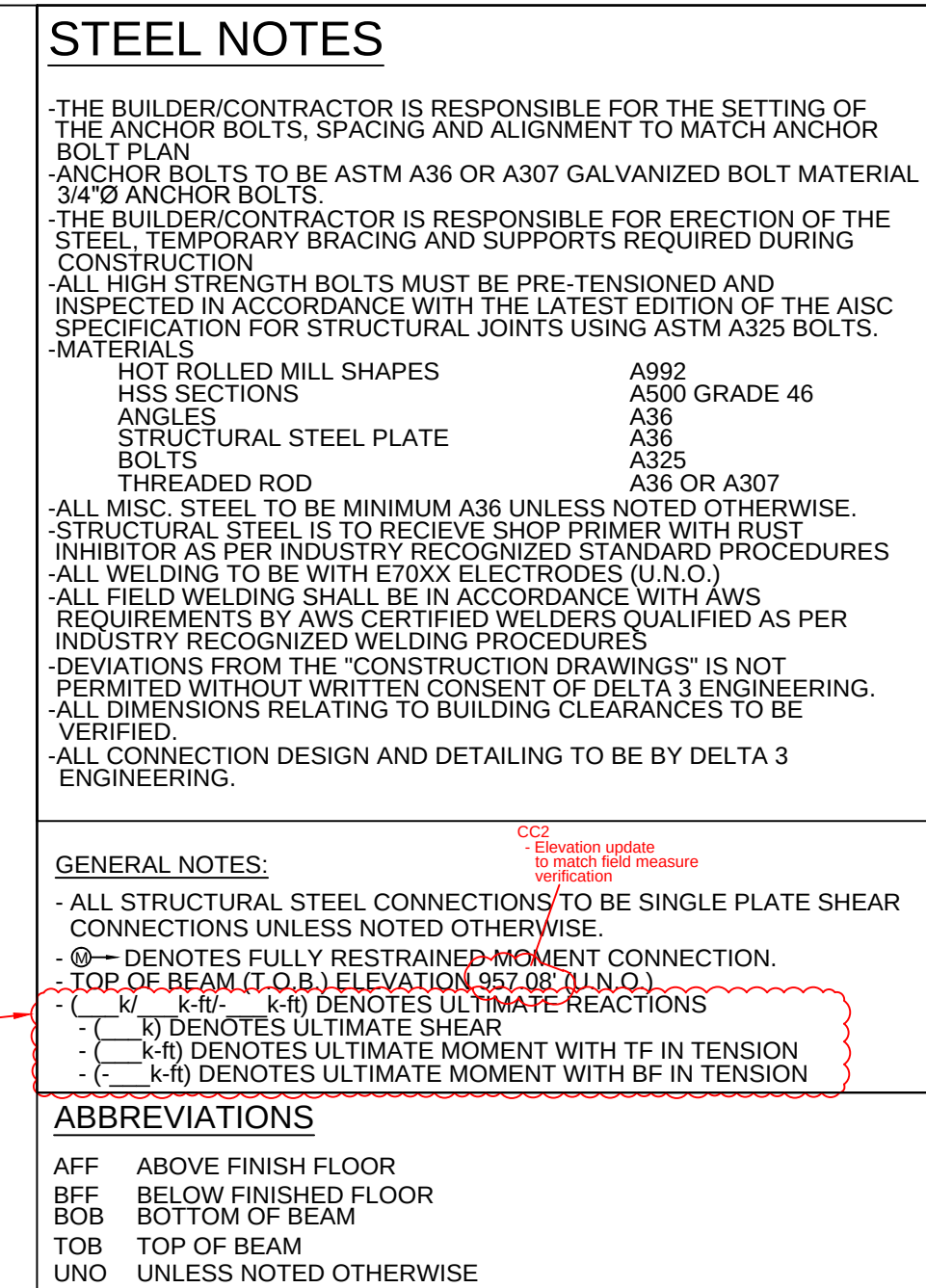
6-11/16" RISER (7" MAX.)

11" MIN. TREAD



REVISIONS:		
NO.	DATE	DESCRIPTION
DC1	7/22/14	Column relocated
	7/22/14	Frame line A moved
DC2	8/8/14	Stairs moved 10" East
	9/23/14	Beam size revised
DC3	9/23/14	Reactions added
DC3	9/23/14	Connection notes
DC3	9/23/14	Connection updated
DC3	11/4/14	C-Channel added for metal pan bearing
CC1	11/23/14	Column relocated
CC1	11/23/14	Frame line 1.2 moved
CC1	11/24/14	Dimensions added
CC1	12/2/14	T.O.B elevation updated
CC2	12/5/14	Revisions as noted

For Construction	
PROJECT NUMBER	D14-041
SHEET SCALE	3/8" = 1'-0"
DRAWN BY	JDH
DATE ISSUED	August 31, 2015
SHEET NUMBER	S601

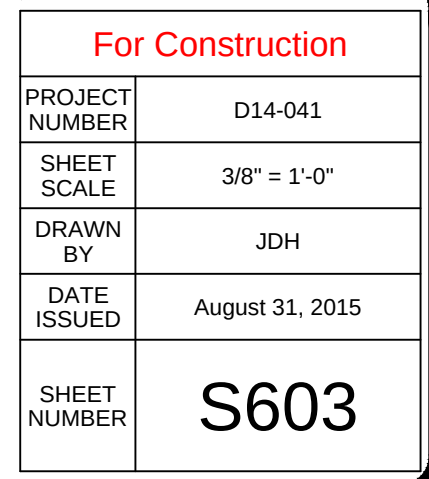


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[illegible]

For Construction	
PROJECT NUMBER	D14-041
SHEET SCALE	3/8" = 1'-0"
DRAWN BY	JDH
DATE ISSUED	August 31, 2015
SHEET NUMBER	S602



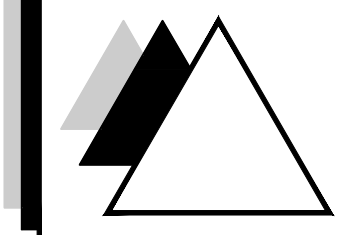
ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
BFF	BELOW FINISHED FLOOR
BOB	BOTTOM OF BEAM
TOB	TOP OF BEAM
UNO	UNLESS NOTED OTHERWISE

S603

PROPOSED ROOF LEVEL STEEL FRAMING PLAN

5603



DELTA 3
ENGINEERING INC

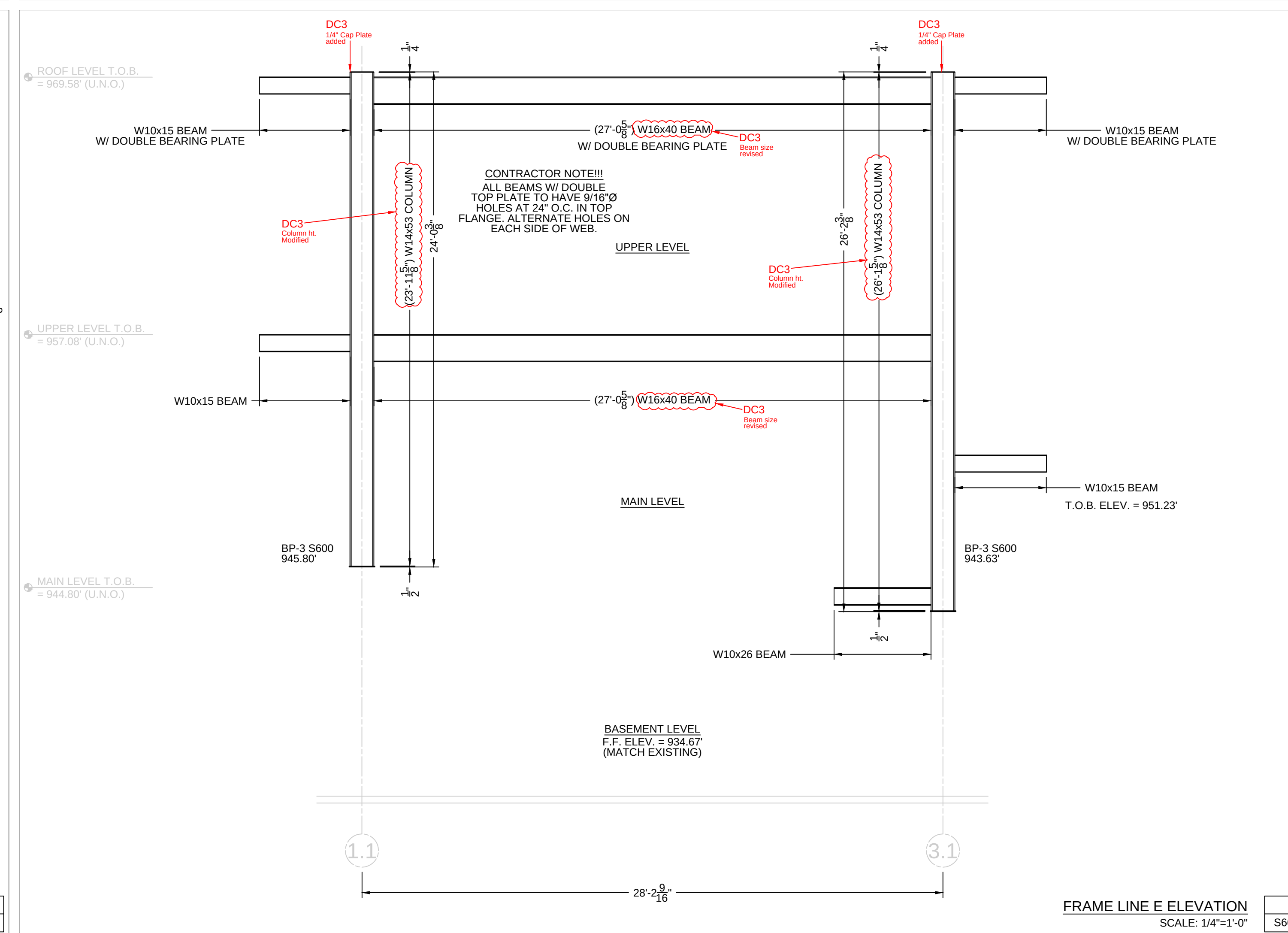
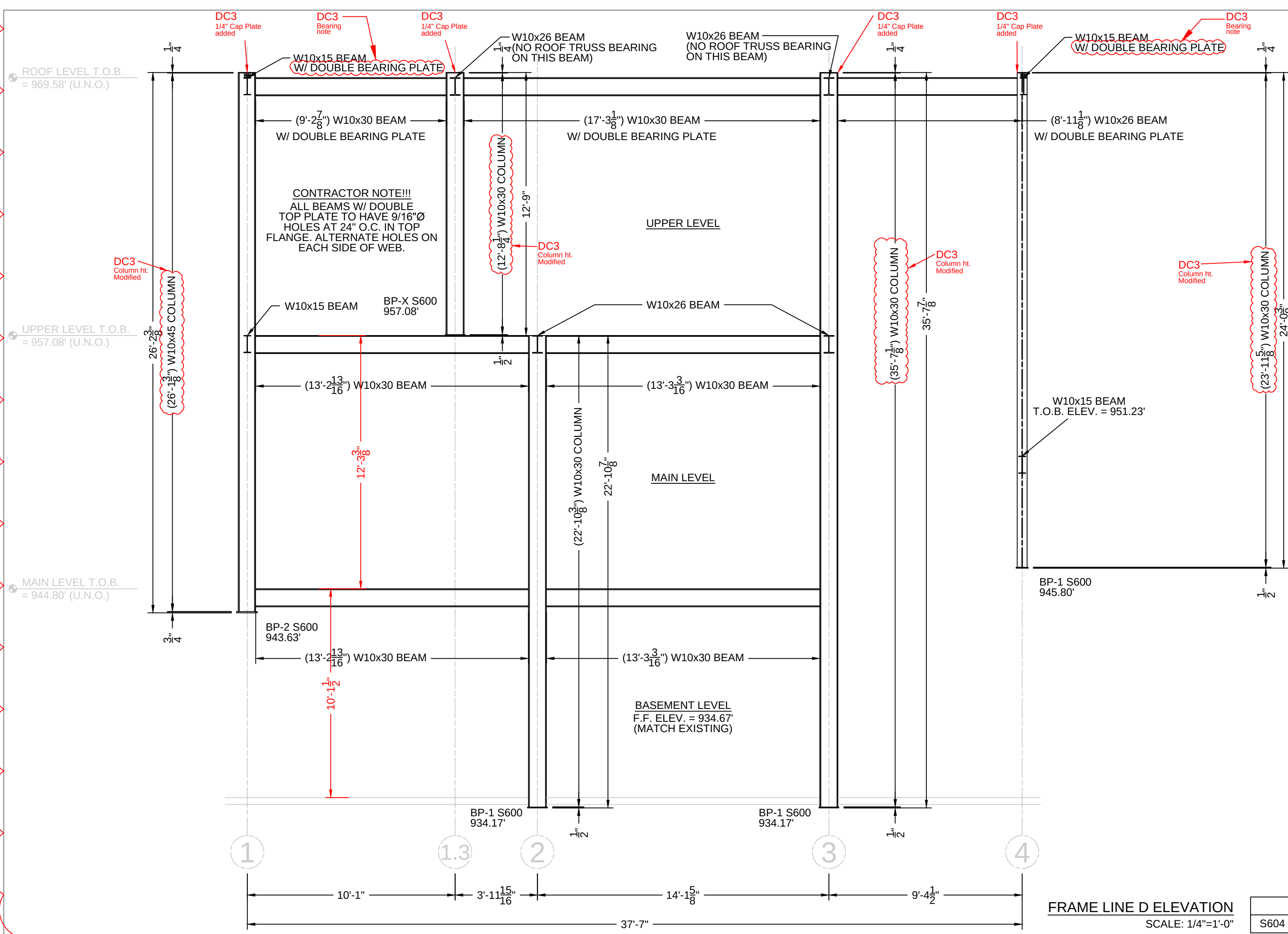
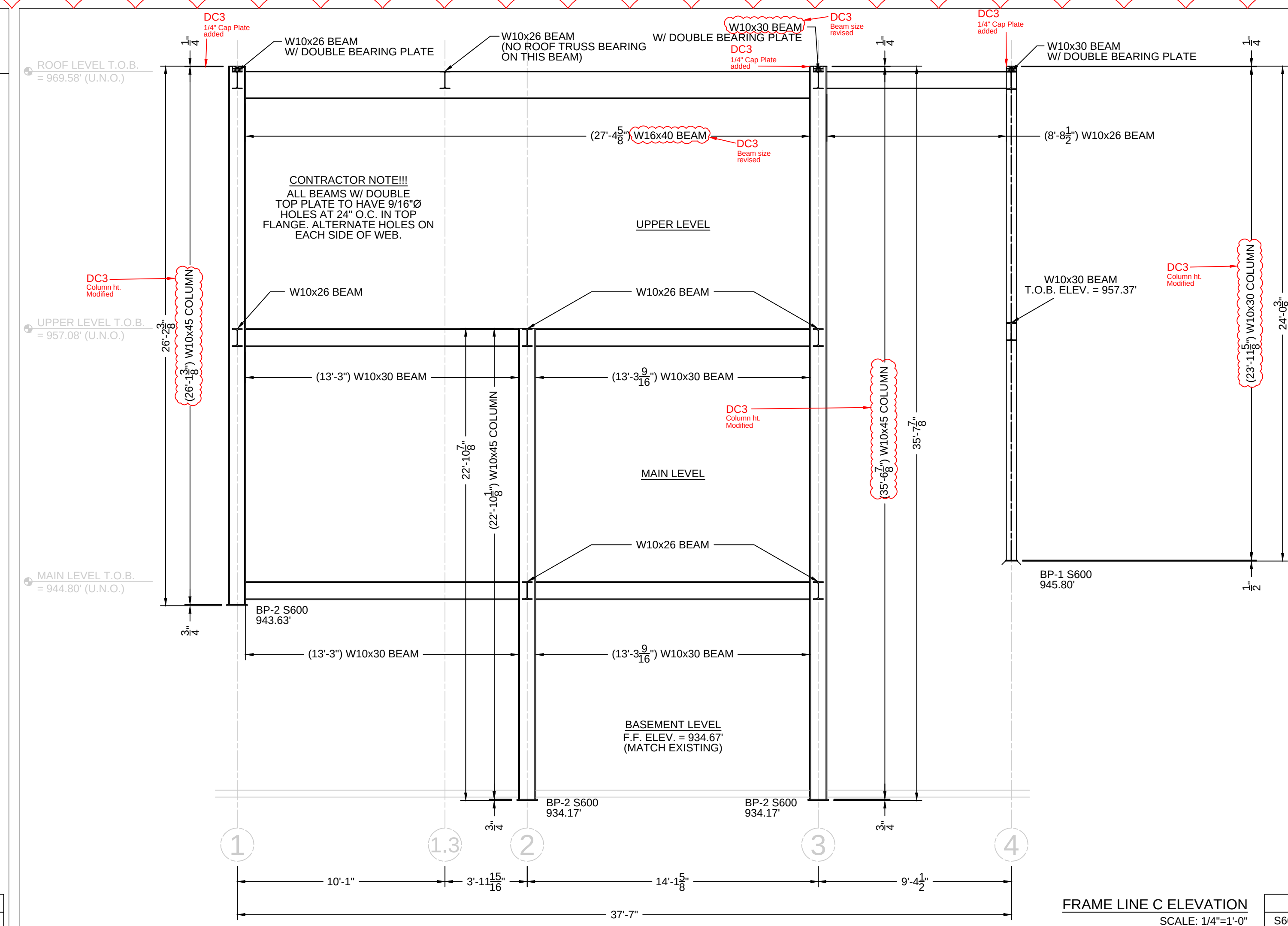
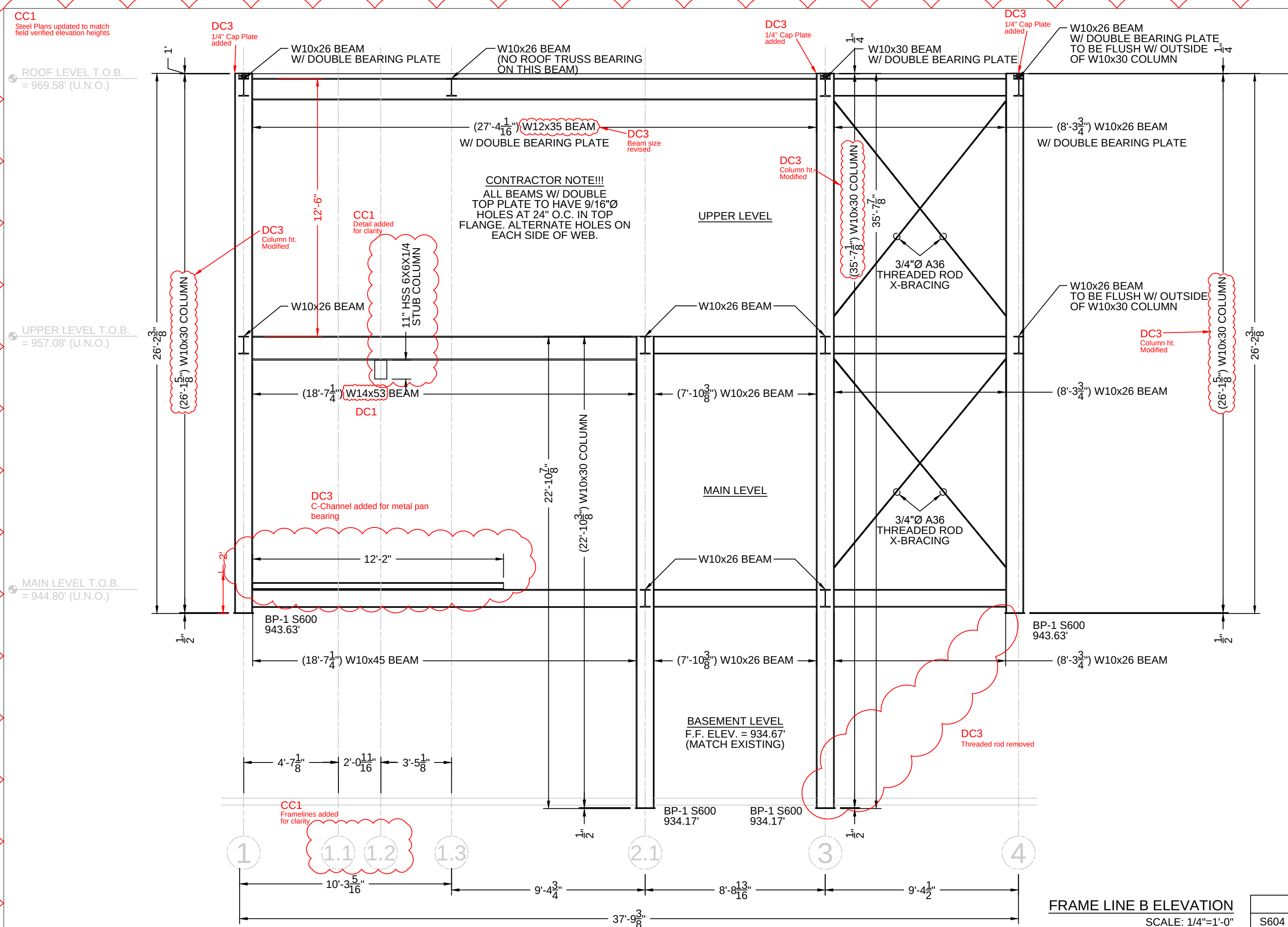
Professional Civil-Municipal & Structural
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Platteville, Wisconsin 53818
Phone: (608) 348-5355
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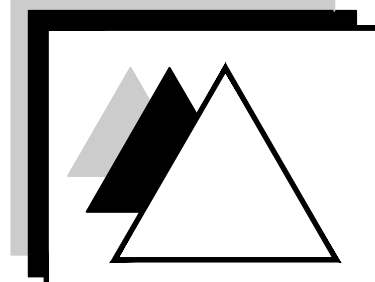
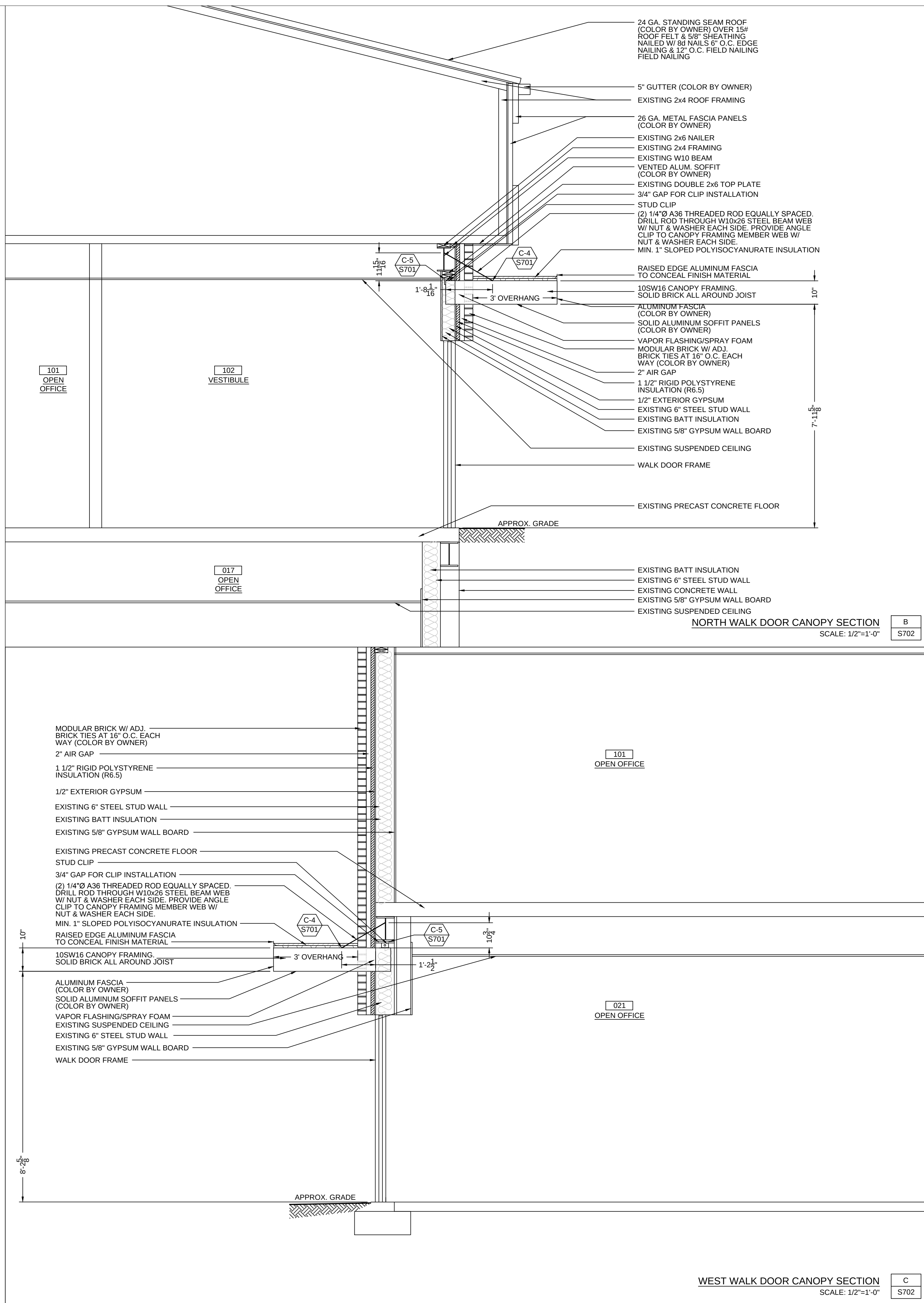
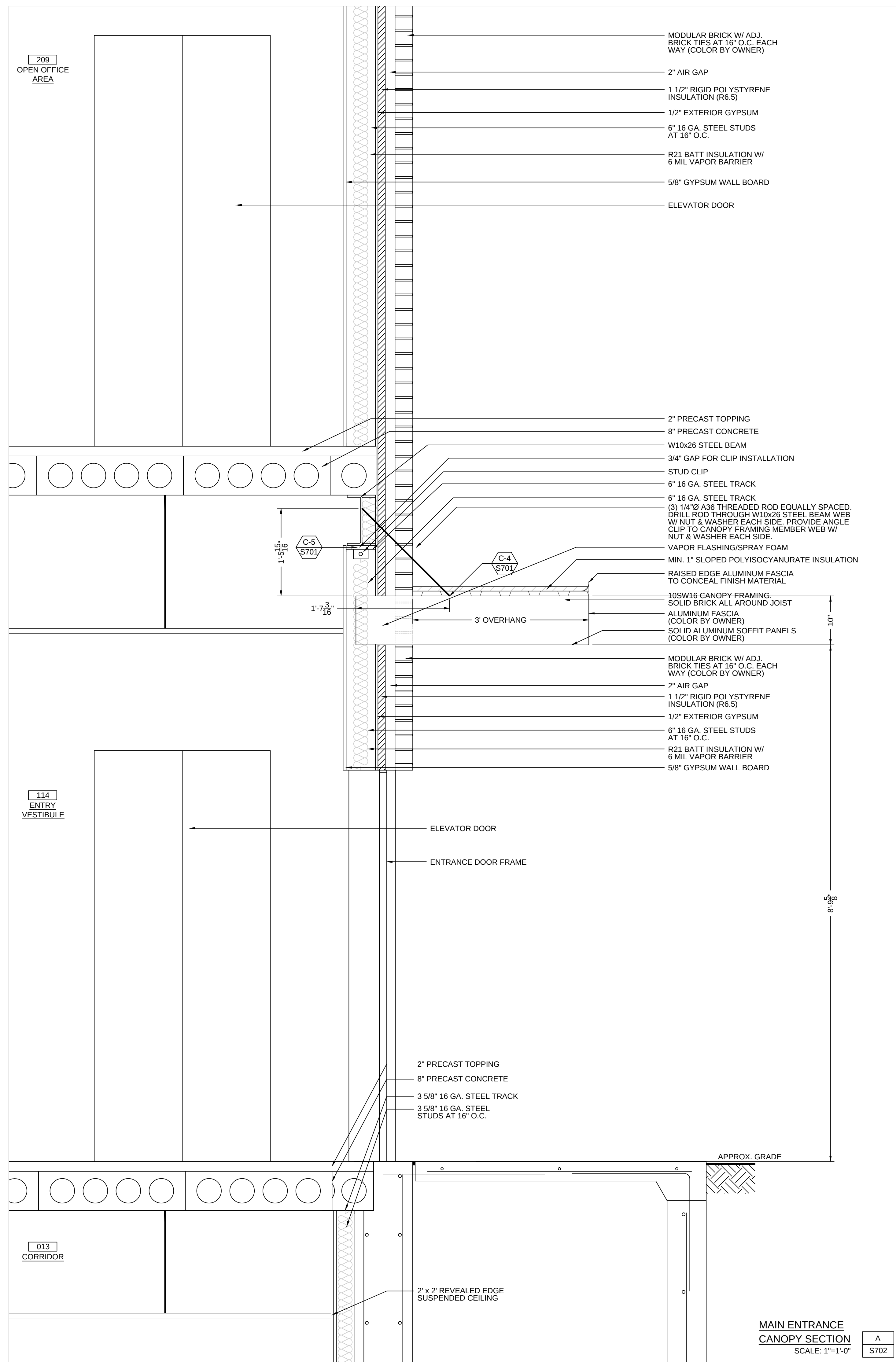
3881 PRISM LANE, KIELER, WI 53812



NO.	DATE	DESCRIPTION
DC1	11/23/14	Beam size revised
DC2	9/23/14	Beam size revised
DC3	9/23/14	Beam size revised
DC3	9/23/14	Beam size revised
DC3	9/23/14	Column Ht. modified
DC3	9/23/14	1/4" Cap Plates added
DC3	11/4/14	C-Channel added for metal pan bearing
DC3	11/6/14	Threaded rod removed
CC1	11/21/14	Detail added for clarity
CC1	11/21/14	Frames added for clarity
CC1	12/2/14	Elevation height updated

For Construction

PROJECT NUMBER	D14-041
SHEET	1/4" = 1'-0"
DRAWN BY	J. SCHWEITZER
DATE ISSUED	August 31, 2015
SHEET NUMBER	S604

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3681 PRISM LANE, KIELER, WI 53812

REVISIONS:		
NO.	DATE	DESCRIPTION
DC3	11/6/14	Sheet added to plan set

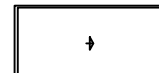
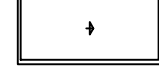
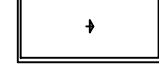
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For Construction

PROJECT NUMBER	D14-041
SHEET SCALE	AS NOTED
DRAWN BY	J. PERRIN
DATE ISSUED	August 31, 2015
SHEET NUMBER	S702

2009 IECC NOTES

- 1.) EACH INTERIOR AREA ENCLOSED BY CEILING HEIGHT PARTITIONS SHALL HAVE AN INDEPENDENT SWITCHING CONTROL DEVICE, EXCEPT IN AREAS DESIGNATED AS SECURITY OR EMERGENCY AREAS THAT MUST BE CONTINUOUSLY LIGHTED OR IN STAIRWAYS OR CORRIDORS THAT ARE ELEMENTS OF THE MEANS OF EGRESS.
- 2.) EACH AREA THAT IS REQUIRED TO HAVE A MANUAL CONTROL SHALL ALSO ALLOW THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A REASONABLY UNIFORM ILLUMINATION PATTERN BY AT LEAST 50%, EXCEPT WHERE AREAS THAT HAVE ONLY ONE LUMINAIRE, AREAS THAT ARE CONTROLLED BY OCCUPANT-SENSING DEVICE, CORRIDORS, STOREROOMS, RESTROOMS OR PUBLIC LOBBIES, SLEEPING UNIT, OR USES LESS THAN 0.6 WATTS PER SQ. FT.
- 3.) A SCHEDULED BASIS, USING TIME-OF-DAY, WITH AN INDEPENDENT PROGRAM SCHEDULE THAT CONTROLS THE CENTER LIGHTING IN AREAS THAT DO NOT EXCEED 25,000 SQ. FT. AND ARE NOT MORE THAN ONE FLOOR, OR AN OCCUPANT SENSOR THAT SHALL TURN LIGHTING OFF WITHIN 30 MINUTES OF AN OCCUPANT LEAVING A SPACE, OR A SIGNAL FROM ANOTHER CONTROL OR ALARM SYSTEM THAT INDICATES THE AREA IS UNOCCUPIED; EXCEPT IN SLEEPING UNITS, LIGHTING IN SPACES WHERE AN AUTOMATIC SHUTOFF WOULD ENDANGER OCCUPANT SAFETY OR SECURITY.
- 4.) WHERE AN AUTOMATIC TIME SWITCH CONTROL DEVICE IS INSTALLED SHALL INCORPORATE AN OVER-RIDE SWITCHING DEVICE THAT IS READILY ACCESSIBLE; IS LOCATED SO THAT A PERSON USING THE DEVICE CAN SEE THE LIGHTS OR THE AREA CONTROLLED BY THAT SWITCH, OR SO THAT THE AREA BEING LIT IS ANNUNCIATED; IS MANUALLY OPERATED; ALLOWS THE LIGHTING TO REMAIN ON FOR NO MORE THAN 2 HOURS WHEN AN OVERRIDE IS INITIATED; AND CONTROLS AN AREA NOT EXCEEDING 5,000 SQ. FT.
- 5.) WHERE AN AUTOMATIC TIME SWITCH CONTROL DEVICE IS INSTALLED SHALL INCORPORATE AN AUTOMATIC HOLIDAY SCHEDULING FEATURE THAT TURNS OFF ALL LOADS FOR AT LEAST 24 HOURS, THEN RESUMES THE NORMALLY SCHEDULED OPERATION; EXCEPT IN RETAIL STORES AND ASSOCIATED MALLS, RESTAURANTS, GROCERY STORES, PLACES OF RELIGIOUS WORSHIP AND THEATERS.
- 6.) SLEEPING UNITS IN HOTELS, MOTELS, BOARDING HOUSES OR SIMILAR BUILDINGS SHALL HAVE AT LEAST ONE MASTER SWITCH AT THE MAIN ENTRY DOOR THAT CONTROLS ALL PERMANENTLY WIRED LUMINAIRES AND SWITCHED RECEPTACLES, EXCEPT THOSE IN THE BATHROOM, SUITES SHALL HAVE AN ADDITIONAL SWITCH MEETING THESE REQUIREMENTS AT THE ENTRY TO EACH ROOM OR AT THE PRIMARY ENTRY TO THE SUITE.
- 7.) EXTERIOR LIGHTING SHALL BE CONTROLLED BY A DIRECTIONAL PHOTOCELL OR ASTRONOMICAL TIME SWITCH THAT AUTOMATICALLY TURNS OFF THE EXTERIOR LIGHTING WHEN SUFFICIENT DAYLIGHT IS AVAILABLE OR WHEN THE LIGHTING IS NOT REQUIRED DURING NIGHTTIME HOURS; LIGHTING NOT DESIGNED FOR NIGHTTIME OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH; LIGHTING DESIGNATED FOR DUSK-TO-DAWN OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH OR PHOTOSENSOR. ASTRONOMICAL TIME SWITCHES SHALL BE CAPABLE OF RETAINING PROGRAMMING AND THE TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST 24 HOURS.
- 8.) FLUORESCENT LUMINAIRES EQUIPPED WITH ONE, THREE OR ADD-NUMBERED LAMP CONFIGURATIONS THAT ARE RECESS-MOUNTED WITHIN 10 FEET CENTER-TO-CENTER OF EACH OTHER AND FLUORESCENT LUMINAIRES EQUIPPED WITH ONE, THREE OR ANY OTHER ADD-NUMBERED LAMP CONFIGURATION, THAT ARE PENDANT- OR SURFACE-MOUNTED WITHIN 1 FOOT EDGE-TO-EDGE OF EACH OTHER ARE TO BE TANDEM WIRED.
- 9.) INTERNALLY ILLUMINATED EXIT SIGNS SHALL NOT EXCEED 5 WATTS PER SIDE.

FIXTURE LEGEND		
FIXTURE SYMBOL	FIXTURE ID	FIXTURE DISCRPTION
 F1	F1	FIXTURE F-1 SURFACE DUALED 4300 NOMINAL DELIVERED LUMENS 2X4 MODEL NO. = 2SDL43L840-4-D-UNV
 F2	F2	FIXTURE F-2 SURFACE DUALED 5800 NOMINAL DELIVERED LUMENS 2X4 MODEL NO. = 2SDL58L840-4-D-UNV
 F3	F3	FIXTURE F-3 SURFACE DUALED 3800 NOMINAL DELIVERED LUMENS 2X2 MODEL NO. = 2SDL38L840-2-D-UNV
 F4	F4	FIXTURE F-4 RECESSED DUALED 4300 NOMINAL DELIVERED LUMENS 2X4 MODEL NO. = 2DLG43L840-4-D-UNV
 F5	F5	FIXTURE F-5 RECESSED DUALED 5800 NOMINAL DELIVERED LUMENS 2X4 MODEL NO. = 2DLG58L840-4-D-UNV
 F6	F6	FIXTURE F-6 RECESSED DUALED 7300 NOMINAL DELIVERED LUMENS 2X4 MODEL NO. = 2DLG73L840-4-D-UNV
 F7	F7	FIXTURE F-7 LED RECESSED CANOPY LIGHT MODEL NO. = CGR35WLU-ASM-BK
 F8	F8	FIXTURE F-8 LED MEDIUM FULL CUTOFF WALL LIGHT MODEL NO. = WTM60WLU-SC2-BK

DESIGN CRITERA	ROOM DIM.		DESIGN DIMENSIONS			ROOM REFLECTANCE			DESIGN RESULTS		
	FIXTURE	HEIGHT (ft)	WORK PLANE HEIGHT (ft)	LUMINAIRE SUSPENSION HT. (ft)	ACTUAL LUMINAIRE HEIGHT (ft)	CEILING	WALLS	FLOOR	AVERAGE ILLUMINANCE (fc - footcandles)	NUMBER OF LUMINAIRES	LIGHTING POWER DENSITY (W/ft²)
ROOM NAMES											
001- HR OFFICE	F6	8'-0"	2'-6"	0	8'-0"	80%	50%	20%	52	2	0.94
008 - STORAGE/MECH ROOM	F2	8'-0"	2'-6"	0	8'-0"	80%	50%	20%	46	1	1.17
009 - IT ROOM	F4	8'-0"	2'-6"	0	8'-0"	80%	50%	20%	50	6	0.70
010 - STORAGE ROOM	F4	8'-0"	2'-6"	0	8'-0"	80%	50%	20%	49	5	0.69
011 - BREAK ROOM	F5	8'-0"	2'-6"	0	8'-0"	80%	50%	20%	53	6	0.77
012 -EXIT ENCLOSER A	F4	8'-0"	2'-6"	0	8'-0"	80%	50%	20%	51	1	1.44
012 -EXIT ENCLOSER B	F5	8'-0"	2'-6"	0	8'-0"	80%	50%	20%	55	1	1.27
013 -CORRIDOR	F5	8'-0"	2'-6"	0	8'-0"	80%	50%	20%	52	3	0.82
014 - ENTRY VESTIBULE	F4	8'-0"	2'-6"	0	8'-0"	80%	50%	20%	44	1	1.10

~~ILLUMINATION LEVELS PROVIDED BY LIGHTING SUPPLIER. VERIFY LIGHTING LEVELS REQUIRED WITH OWNER PRIOR TO ANY INSTALLATION.~~

SWITCHING LEGEND	
	WATT STOPPER OCCUPANCY WALL SWITCH SENSOR PASSIVE INFRARED WALL SWITCH OCCUPANCY SENSOR MODEL NO. = PW-100
	WATT STOPPER PASSIVE OCCUPANCY CEILING SENSOR PASSIVE INFRARED HVAC/BAS CEILING SENSOR MODEL NO. = GI-24

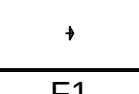
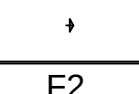
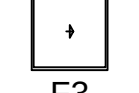
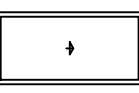
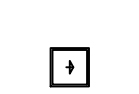
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For Construction	
PROJECT NUMBER	D14-041
SHEET SCALE	3/16" = 1'-0"
DRAWN BY	C. SMOODY
DATE ISSUED	August 31, 2015
SHEET NUMBER	E101

2009 IECC NOTES

- 1.) EACH INTERIOR AREA ENCLOSED BY CEILING HEIGHT PARTITIONS SHALL HAVE AN INDEPENDENT SWITCHING CONTROL DEVICE; EXCEPT IN AREAS DESIGNATED AS SECURITY OR EMERGENCY AREAS THAT MUST BE CONTINUOUSLY LIGHTED OR IN STAIRWAYS OR CORRIDORS THAT ARE ELEMENTS OF THE MEANS OF EGRESS.
- 2.) EACH AREA THAT IS REQUIRED TO HAVE A MANUAL CONTROL SHALL ALSO ALLOW THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A REASONABLY UNIFORM ILLUMINATION PATTERN BY AT LEAST 50%; EXCEPT WHERE AREAS THAT HAVE ONLY ONE LUMINAIRE, AREAS THAT ARE CONTROLLED BY OCCUPANT-SENSING DEVICE, CORRIDORS, STOREROOMS, RESTROOMS OR PUBLIC LOBBIES, SLEEPING UNIT, OR USES LESS THAN 0.6 WATTS PER SQ. FT.
- 3.) A SCHEDULED BASIS, USING TIME-OF-DAY, WITH AN INDEPENDENT PROGRAM SCHEDULE THAT CONTROLS THE INTERIOR LIGHTING IN AREAS THAT DO NOT EXCEED 25,000 SQ. FT. AND ARE NOT MORE THAN ONE FLOOR, OR AN OCCUPANT SENSOR THAT SHALL TURN LIGHTING OFF WITHIN 30 MINUTES OF AN OCCUPANT LEAVING A SPACE, OR A SIGNAL FROM ANOTHER CONTROL OR ALARM SYSTEM THAT INDICATES THE AREA IS UNOCCUPIED; EXCEPT IN SLEEPING UNITS, LIGHTING IN SPACES WHERE AN AUTOMATIC SHUTOFF WOULD ENDANGER OCCUPANT SAFETY OR SECURITY.
- 4.) WHERE AN AUTOMATIC TIME SWITCH CONTROL DEVICE IS INSTALLED SHALL INCORPORATE AN OVER-RIDE SWITCHING DEVICE THAT IS READILY ACCESSIBLE; IS LOCATED SO THAT A PERSON USING THE DEVICE CAN SEE THE LIGHTS OR THE AREA CONTROLLED BY THAT SWITCH, OR SO THAT THE AREA BEING LIT IS ANNUNCIATED; IS MANUALLY OPERATED; ALLOWS THE LIGHTING TO REMAIN ON FOR NO MORE THAN 2 HOURS WHEN AN OVERRIDE IS INITIATED; AND CONTROLS AN AREA NOT EXCEEDING 5,000 SQ. FT.
- 5.) WHERE AN AUTOMATIC TIME SWITCH CONTROL DEVICE IS INSTALLED SHALL INCORPORATE AN AUTOMATIC HOLIDAY SCHEDULING FEATURE THAT TURNS OFF ALL LOADS FOR AT LEAST 24 HOURS, THEN RESUMES THE NORMALLY SCHEDULED OPERATION; EXCEPT IN RETAIL STORES AND ASSOCIATED MALLS, RESTAURANTS, GROCERY STORES, PLACES OF RELIGIOUS WORSHIP AND THEATERS.
- 6.) SLEEPING UNITS IN HOTELS, MOTELS, BOARDING HOUSES OR SIMILAR BUILDINGS SHALL HAVE AT LEAST ONE MASTER SWITCH AT THE MAIN ENTRY DOOR THAT CONTROLS ALL PERMANENTLY WIRED LUMINAIRES AND SWITCHED RECEPTACLES, EXCEPT THOSE IN THE BATHROOM. SUITES SHALL HAVE A CONTROL MEETING THESE REQUIREMENTS AT THE ENTRY TO EACH ROOM OR AT THE PRIMARY ENTRY TO THE SUITE.
- 7.) EXTERIOR LIGHTING SHALL BE CONTROLLED BY A DIRECTIONAL PHOTOCCELL OR ASTRONOMICAL TIME SWITCH THAT AUTOMATICALLY TURNS OFF THE EXTERIOR LIGHTING WHEN SUFFICIENT DAYLIGHT IS AVAILABLE OR WHEN THE LIGHTING IS NOT REQUIRED DURING NIGHTTIME HOURS. LIGHTING NOT DESIGNATED FOR DUSK-TO-DAWN OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH. LIGHTING DESIGNATED FOR DUSK-TO-DAWN OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH OR PHOTOSENSOR. ASTRONOMICAL TIME SWITCHES SHALL BE CAPABLE OF RETAINING PROGRAMMING AND THE TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST 10 HOURS.
- 8.) FLUORESCENT LUMINAIRES EQUIPPED WITH ONE, THREE OR ADD-NUMBERED LAMP CONFIGURATIONS, THAT ARE RECESS-MOUNTED WITHIN 10 FEET CENTER-TO-CENTER OF EACH OTHER AND FLUORESCENT LUMINAIRES EQUIPPED WITH ONE, THREE OR ANY OTHER ODD-NUMBERED LAMP CONFIGURATION, THAT ARE PENDANT, OR SURFACE-MOUNTED WITHIN 1 FOOT EDGE-TO-EDGE OF EACH OTHER ARE TO BE TANDEM WIRED.
- 9.) INTERNALLY ILLUMINATED EXIT SIGNS SHALL NOT EXCEED 5 WATTS PER SIDE.

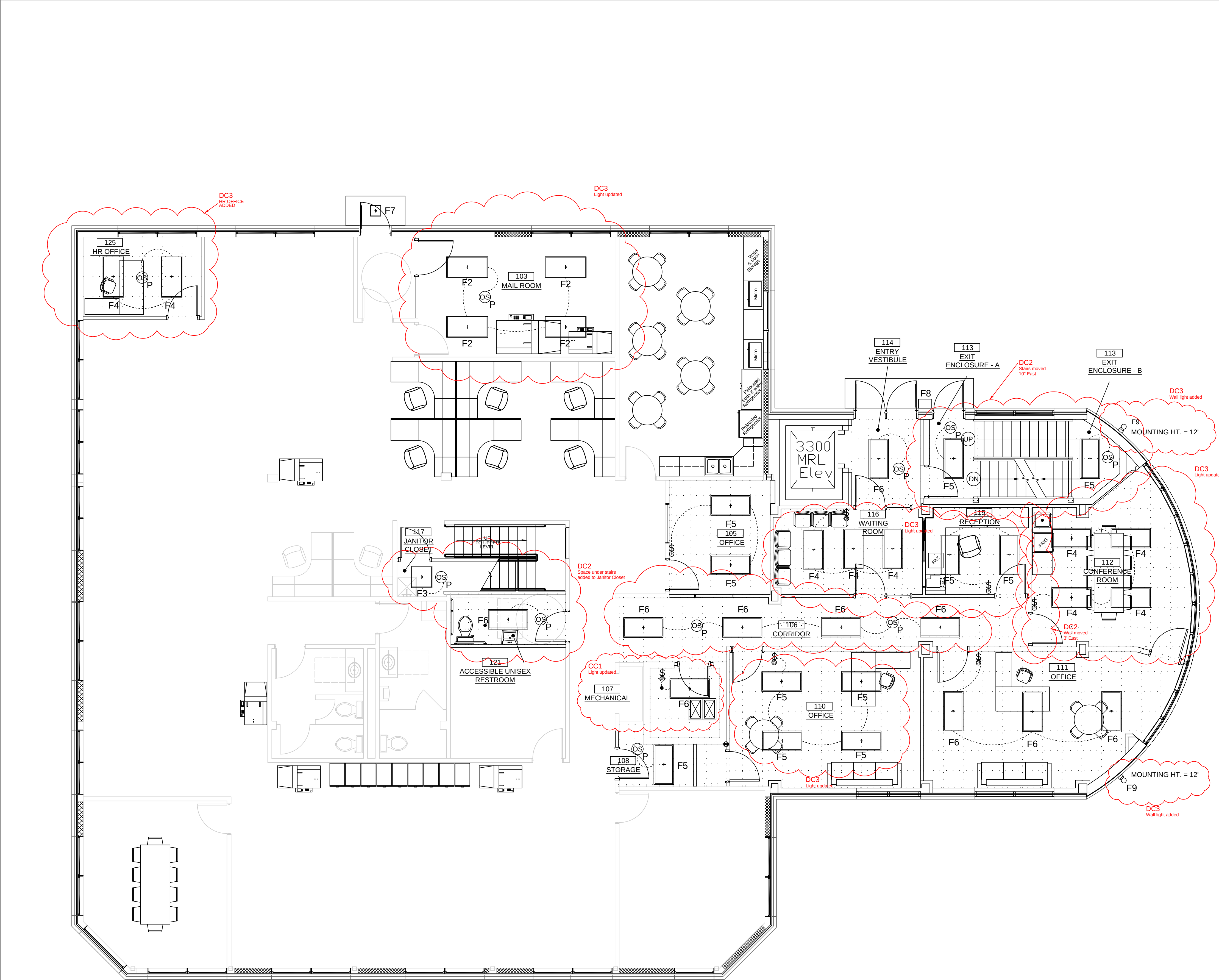
FIXTURE LEGEND

FIXTURE SYMBOL	FIXTURE ID	FIXTURE DESCRIPTION
	F1	FIXTURE F-1 SURFACE DUALED 4300 NOMINAL DELIVERED LUMENS 2X4 MODEL NO. = 2SDL43L840-4-D-UNV
	F2	FIXTURE F-2 SURFACE DUALED 5800 NOMINAL DELIVERED LUMENS 2X4 MODEL NO. = 2SDL58L840-4-D-UNV
	F3	FIXTURE F-3 SURFACE DUALED 3800 NOMINAL DELIVERED LUMENS 2X2 MODEL NO. = 2SDL38L840-2-D-UNV
	F4	FIXTURE F-4 RECESSED DUALED 4300 NOMINAL DELIVERED LUMENS 2X4 MODEL NO. = 2DLG43L840-4-D-UNV
	F5	FIXTURE F-5 RECESSED DUALED 5800 NOMINAL DELIVERED LUMENS 2X4 MODEL NO. = 2DLG58L840-4-D-UNV
	F6	FIXTURE F-6 RECESSED DUALED 7300 NOMINAL DELIVERED LUMENS 2X4 MODEL NO. = 2DLG73L840-4-D-UNV
	F7	FIXTURE F-7 LED RECESSED CANOPY LIGHT MODEL NO. = CGR35WLU-ASM-BK
	F8	FIXTURE F-8 LED MEDIUM FULL CUTOFF WALL LIGHT MODEL NO. = WTM60WLU-SC2-BK
	F9	FIXTURE F-9 SYRIOS LED SERIES 3"Ø UP/DOWN WALL LIGHT MODEL NO. = L2W11R0-24W-277 COLOR BY OWNER

DESIGN CRITERIA

ROOM NAMES	ROOM DIM.	DESIGN DIMENSIONS	ROOM REFLECTANCE	DESIGN RESULTS
	FIXTURE HEIGHT (ft)	WORK PLANE HEIGHT (ft) LUMINAIRE SUSPENSION HT. (ft) ACTUAL LUMINAIRE HEIGHT (ft)	CEILING WALLS FLOOR	AVERAGE ILLUMINANCE (fc = footcandles) NUMBER OF LUMINAIRES LIGHTING POWER DENSITY (W/ft²)
103 - MAIL ROOM	F2 9'-0"	2'-6" 0 8'-9"	80% 50% 20%	54 2 0.95
105 - OFFICE	F5 9'-0"	2'-6" 0 9'-0"	80% 50% 20%	53 2 1.02
106 - CORRIDOR	F6 9'-0"	2'-6" 0 9'-0"	80% 50% 20%	53 4 1.09
107 - MECHANICAL	F6 9'-0"	2'-6" 0 9'-0"	80% 50% 20%	53 1 1.5
108 - STORAGE	F5 9'-0"	2'-6" 0 9'-0"	80% 50% 20%	42 1 1.23
110 - OFFICE	F5 9'-0"	2'-6" 0 9'-0"	80% 50% 20%	50 4 0.86
111 - OFFICE	F6 9'-0"	2'-6" 0 9'-0"	80% 50% 20%	50 3 0.78
112 - CONFERENCE ROOM	F4 9'-0"	2'-6" 0 9'-0"	80% 50% 20%	49 4 0.83
113 - EXIT ENCLOSURE A	F5 9'-0"	2'-6" 0 9'-0"	80% 50% 20%	59 1 1.91
113 - EXIT ENCLOSURE B	F5 9'-0"	2'-6" 0 9'-0"	80% 50% 20%	48 1 1.27
114 - ENTRY VESTIBULE	F6 9'-0"	2'-6" 0 9'-0"	80% 50% 20%	52 1 1.27
115 - RECEPTION	F5 9'-0"	2'-6" 0 9'-0"	80% 50% 20%	54 2 1.24
116 - WAITING ROOM	F4 9'-0"	2'-6" 0 9'-0"	80% 50% 20%	48 3 0.94
117 - JANITOR CLOSET	F3 9'-0"	2'-6" 0 8'-3"	80% 50% 20%	49 1 2.14
121 - ACCESSIBLE UNISEX RESTROOM	F6 9'-0"	2'-6" 0 9'-0"	80% 50% 20%	50 2 1.33
125 - HR OFFICE	F4 9'-0"	2'-6" 0 9'-0"	80% 50% 20%	54 1 1.02

ILLUMINATION LEVELS PROVIDED BY LIGHTING SUPPLIER. VERIFY LIGHTING LEVELS REQUIRED WITH OWNER PRIOR TO ANY INSTALLATION.



SWITCHING LEGEND

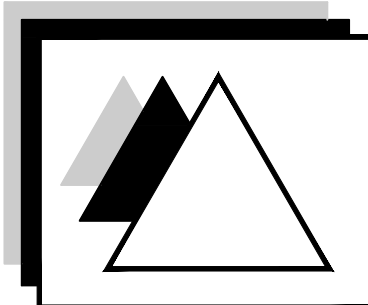


WATT STOPPER OCCUPANCY WALL SWITCH SENSOR
PASSIVE INFRARED WALL SWITCH OCCUPANCY SENSOR
MODEL NO. = PW-100

WATT STOPPER PASSIVE OCCUPANCY CEILING SENSOR
PASSIVE INFRARED HVAC/BAS CEILING SENSOR
MODEL NO. = CI-24

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

E102



DELTA 3
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3881 PRISM LANE, KIELER, WI 53121

NO.	DATE	DESCRIPTION
DC3	8/11/14	Stairs under stairs added
DC2	8/8/14	Stairs moved 10' East
DC2	8/11/14	Wall moved 3' East
DC3	8/27/14	HR Office added
DC3	11/5/14	Wall light added
CC1	11/5/14	Light updated
CC1	11/28/14	Light updated

For Construction

PROJECT NUMBER	D14-041
SHEET SCALE	3/16" = 1'-0"
DRAWN BY	C. SMOODY
DATE ISSUED	August 31, 2015
SHEET NUMBER	E102

- 1) EACH INTERIOR AREA ENCLOSED BY CEILING HEIGHT PARTITIONS SHALL HAVE AN INDEPENDENT SWITCHING CONTROL DEVICE, EXCEPT IN AREAS DESIGNATED AS SECURITY OR EMERGENCY AREAS THAT MUST BE CONTINUOUSLY LIGHTED OR IN STAIRWAYS OR CORRIDORS THAT ARE ELEMENTS OF THE BUILDING ENVELOPE.
- 2) EACH AREA THAT IS REQUIRED TO HAVE A MANUAL CONTROL SHALL ALSO ALLOW THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A REASONABLY UNIFORM ILLUMINATION PATTERN BY AT LEAST 50%, EXCEPT WHERE AREAS THAT HAVE ONLY ONE LUMINAIRE, AREAS THAT ARE CONTROLLED BY OCCUPANT-SENSING DEVICE, CORRIDORS, STOREROOMS, RESTROOMS OR PUBLIC LOBBIES, AND STAIRWAYS.
- 3) A SCHEDULED BASIS, USING TIME-OF-DAY, WITH AN INDEPENDENT PROGRAM SCHEDULE THAT CONTROLS THE INTERIOR LIGHTING IN AREAS THAT DO NOT EXCEED 25,000 SQ. FT. AND ARE NOT MORE THAN ONE FLOOR, OR AN OCCUPANT SENSOR THAT SHALL TURN LIGHTING OFF WITHIN 30 MINUTES OF AN OCCUPANT LEAVING A SPACE, OR A SIGNAL FROM ANOTHER CONTROL OR ALARM SYSTEM THAT INDICATES THAT THE SPACE IS UNOCCUPIED, THOSE IN SELECTING UNIT SPACES AND SPACES WHERE AN AUTOMATIC SHUTOFF WOULD ENDANGER OCCUPANT SAFETY OR SECURITY.
- 4) WHERE AN AUTOMATIC TIME SWITCH CONTROL DEVICE IS INSTALLED SHALL INCORPORATE AN OVER-RIDE SWITCHING DEVICE THAT IS READILY ACCESSIBLE; IS LOCATED SO THAT A PERSON USING THE DEVICE CAN SEE THE LIGHTS OR THE AREA CONTROLLED BY THAT SWITCH, OR SO THAT THE AREA OF THE LIGHTING IS IDENTIFIABLE AND EASILY OPERATED; AND, ONCE IN SETBACK, STORES AND MORE THAN 2 HOURS WHEN AN OVERRIDE IS INITIATED; AND CONTROLS AN AREA NOT EXCEEDING 5,000 SQ. FT.
- 5) WHERE AN AUTOMATIC TIME SWITCH CONTROL DEVICE IS INSTALLED SHALL INCORPORATE AN AUTOMATIC HOLIDAY SCHEDULING FEATURE THAT TURNS OFF ALL LOADS FOR AT LEAST 24 HOURS, AND WHERE THE RESULTING UNOCCUPIED OPERATION OF THE LIGHTING IN THE BATHROOM, SUITES AND ASSOCIATED MALLS, RESTAURANTS, GROCERY STORES, PLACES OF RELIGIOUS WORSHIP AND THEATERS.
- 6) SLEEPING UNITS IN HOTELS, MOTELS, BOARDING HOUSES OR SIMILAR BUILDINGS SHALL HAVE AT LEAST ONE MASTER SWITCH ON THE MAIN ENTRY DOOR THAT CONTROLS ALL PERMANENTLY WIRED LIGHTING IN THE UNIT AND IN THE BATHROOM AND IN THE BATHROOM SUITES SHALL HAVE A CONTROL MEETING THESE REQUIREMENTS AT THE ENTRY TO EACH ROOM OR AT THE PRIMARY ENTRY TO THE SUITE.
- 7) EXTERIOR LIGHTING SHALL BE CONTROLLED BY A DIRECTIONAL PHOTOCELL OR ASTRONOMICAL TIME SWITCH THAT AUTOMATICALLY TURNS OFF THE EXTERIOR LIGHTING WHEN SUFFICIENT DAYLIGHT IS AVAILABLE; OR WHEN THE LIGHTING IS NOT REQUIRED DURING NIGHTTIME HOURS. LIGHTING NOT DESIGNATED FOR DUSK-TO-DAWN OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH. LIGHTING DESIGNATED FOR DUSK-TO-DAWN OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH OR PHOTOSENSORS. ASTRONOMICAL TIME SWITCHES SHALL BE AVAILABLE FOR THE DETERMINING AND THE TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST 10 HOURS.
- 8) FLUORESCENT LUMINAIRES EQUIPPED WITH ONE, THREE OR ADD-NUMBERED LAMP CONFIGURATIONS THAT ARE RECESS-MOUNTED WITHIN 10 FEET CENTER-TO-CENTER OF EACH OTHER AND FLUORESCENT LUMINAIRES EQUIPPED WITH ONE, THREE OR ANY OTHER ADD-NUMBERED LAMP CONFIGURATION SHALL BE RECESS-MOUNTED WITHIN 1 FOOT EDGE-TO-EDGE OF EACH OTHER ARE TO BE TANDUM WIRED.
- 9) INTERNALLY ILLUMINATED EXIT SIGNS SHALL NOT EXCEED 5 WATTS PER SIDE.

DESIGN CRITERIA		ROOM DIM.	DESIGN DIMENSIONS			ROOM REFLECTANCE			DESIGN RESULTS				
			FIXTURE	HEIGHT (ft)	WORK PLANE HEIGHT (ft)	LUMINAIRE SUSPENSION HT. (ft)	ACTUAL LUMINAIRE HEIGHT (ft)	CEILING	WALLS	FLOOR	AVERAGE ILLUMINANCE (fc ± footcandle)	NUMBER OF LUMINAIRES	LIGHTING POWER DENSITY (W/ft ²)
ROOM NAMES													
201 - UNISEX RESTROOM		F2	9'-0"	2'-6"	0	9'-0"	80%	50%	20%	35	1	0.71	
202 - LACTATION ROOM		F3	9'-0"	2'-6"	0	8'-7"	80%	50%	20%	46	1	1.9	
203 - STORAGE ROOM		F3	9'-0"	2'-6"	0	8'-7"	80%	50%	20%	46	1	1.9	
204 - STAIRWELL ROOM		F2	18'-0"	2'-6"	0	17'-7"	80%	50%	20%	49	3	2.18	
205 - EXIT ENCLOSURE		F1	9'-0"	2'-6"	0	9'-0"	80%	50%	20%	44	1	1.44	
206 - CONFERENCE/LUNCH ROOM		F5	9'-0"	2'-6"	0	9'-0"	80%	50%	20%	49	2	0.95	
207 - OFFICE		F5	9'-0"	2'-6"	0	9'-0"	80%	50%	20%	52	3	1.01	
208 - OFFICE		F4	9'-0"	2'-6"	0	9'-0"	80%	50%	20%	51	3	0.92	
209 - OPEN OFFICE AREA		F5	9'-0"	2'-6"	0	9'-0"	80%	50%	20%	50	6	0.65	
210 - OPEN OFFICE AREA A		F1	9'-0"	2'-6"	0	8'-7"	80%	50%	20%	53	2	1.19	
210 - OPEN OFFICE AREA B		F2	9'-0"	2'-6"	0	8'-7"	80%	50%	20%	49	5	0.68	
210 - OPEN OFFICE AREA C		F2	9'-0"	2'-6"	0	8'-7"	80%	50%	20%	54	6	0.73	
211 - OPEN STORAGE		F2	9'-0"	2'-6"	0	8'-7"	80%	50%	20%	41	1	1.02	
CORRIDOR		F6	9'-0"	2'-6"	0	9'-0"	80%	50%	20%	52	1	1.27	

SWITCHING LEGEND	
	WATT STOPPER OCCUPANCY WALL SWITCH SENSOR PASSIVE INFRARED WALL SWITCH OCCUPANCY SENSOR MODEL NO. = PW-100
	WATT STOPPER PASSIVE OCCUPANCY CEILING SENSOR PASSIVE INFRARED HVAC/BAS CEILING SENSOR MODEL NO. = CI-24



For Construction	
PROJECT NUMBER	D14-041
SHEET SCALE	1/4" = 1'-0"
DRAWN BY	C. SMOODY
DATE ISSUED	August 31, 2015
SHEET NUMBER	E103

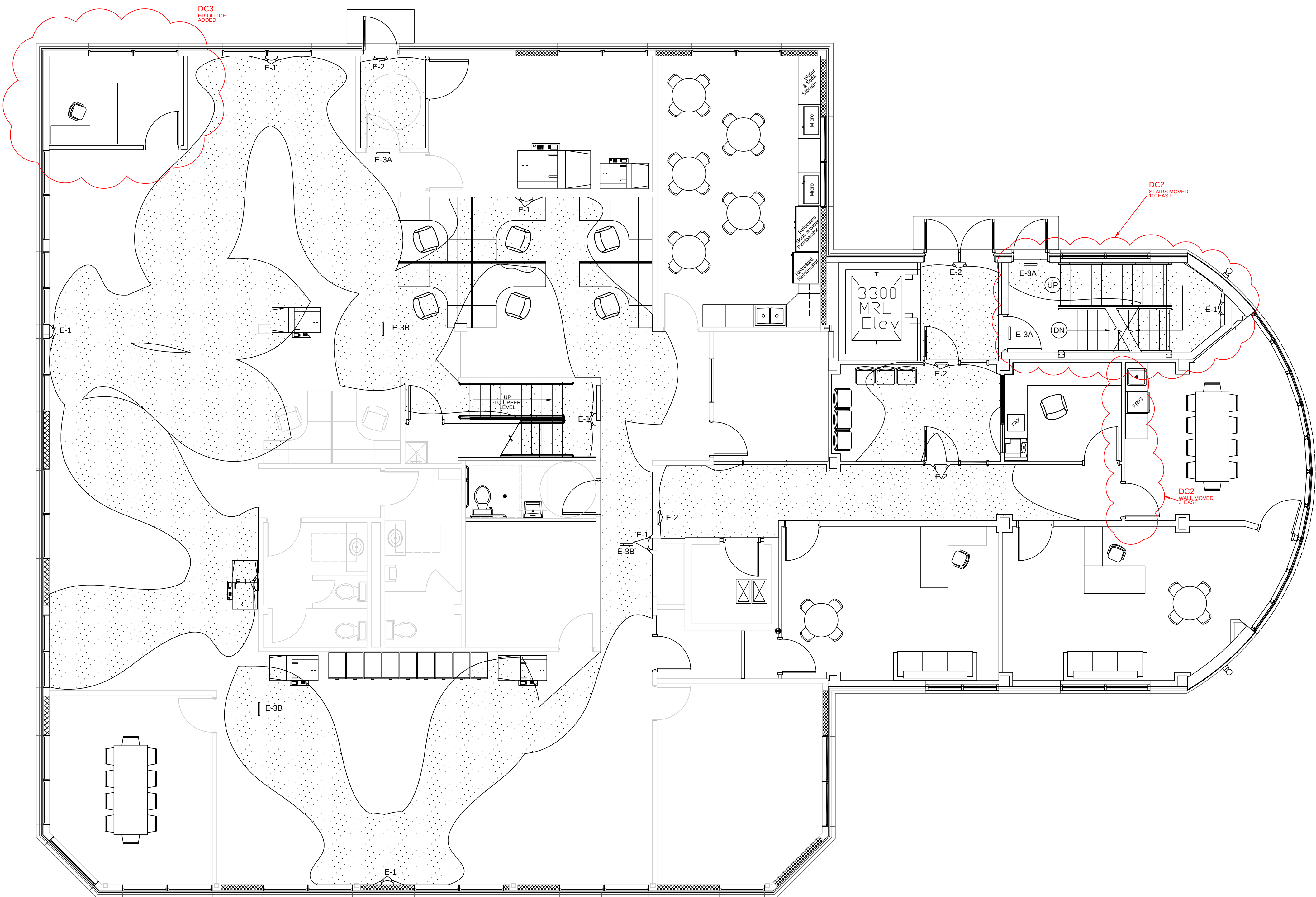
- 3) EACH INTERIOR AREA ENCLOSED BY CEILING HEIGHT PARTITIONS SHALL HAVE AN INDEPENDENT SWITCHING CONTROL DEVICE; EXCEPT IN AREAS DESIGNATED AS SECURITY OR EMERGENCY AREAS THAT MUST BE CONTINUOUSLY LIGHTED OR IN STAIRWAYS OR CORRIDORS THAT ARE ELEMENTS OF THE EGRESS PATH.
- 4) EACH AREA THAT IS REQUIRED TO HAVE A MANUAL CONTROL SHALL ALSO ALLOW THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A REASONABLY UNIFORM ILLUMINATION PATTERN BY AT LEAST 50%; EXCEPT WHERE AREAS THAT HAVE ONLY ONE LUMINAIRE, AREAS THAT ARE CONTROLLED BY OCCUPANT-SENSING DEVICE, CORRIDORS, STOREROOMS, RESTROOMS OR PUBLIC LOBBIES.
- 5) A SCHEDULED BASIS, USING TIME-OF-DAY, WITH AN INDEPENDENT PROGRAM SCHEDULE THAT CONTROLS THE INTERIOR LIGHTING IN AREAS THAT DO NOT EXCEED 25,000 SQ. FT. AND ARE NOT MORE THAN ONE FLOOR, OR AN OCCUPANT SENSOR THAT SHALL TURN LIGHTING OFF WITHIN 30 MINUTES OF AN OCCUPANT LEAVING A SPACE, OR A SIGNAL FROM ANOTHER CONTROL OR ALARM SYSTEM THAT INDICATES THE AREA IS UNOCCUPIED. EXCEPT THOSE IN SLEEPING UNITS, IN COMMON SPACES WHERE AN AUTOMATIC SHUTOFF WOULD ENDANGER OCCUPANT SAFETY OR SECURITY.
- 6) WHERE AN AUTOMATIC TIME SWITCH CONTROL DEVICE IS INSTALLED SHALL INCORPORATE AN OVER-RIDE SWITCHING DEVICE THAT IS READILY ACCESSIBLE; IS LOCATED SO THAT A PERSON USING THE DEVICE CAN SEE THE LIGHTS OR THE AREA CONTROLLED BY THAT SWITCH, OR SO THAT THE AREA BEING ILLUMINATED IS AN EGRESS PATH; EXCEPT THOSE IN SLEEPING UNITS, IN COMMON AREAS MORE THAN 2 HOURS WHEN AN OVERRIDE IS INITIATED; AND CONTROLS AN AREA NOT EXCEEDING 5,000 SQ. FT.
- 7) WHERE AN AUTOMATIC TIME SWITCH CONTROL DEVICE IS INSTALLED SHALL INCORPORATE AN AUTOMATIC HOLIDAY SCHEDULING FEATURE THAT TURNS OFF ALL LIGHTS FOR AT LEAST 24 HOURS. THIS RESULT IS AN EXCEPTION TO THE REQUIREMENTS FOR RETAIL STORES, RESTAURANTS, ASSOCIATED MALLS, RESTAURANTS, GROCERY STORES, PLACES OF RELIGIOUS WORSHIP AND THEATERS.
- 8) SLEEPING UNITS IN HOTELS, MOTELS, BOARDING HOUSES OR SIMILAR BUILDINGS SHALL HAVE AT LEAST ONE MASTER SWITCH AT THE MAIN ENTRY DOOR THAT CONTROLS ALL PERMANENTLY WIRED LUMINAIRES AND SWITCHED RECEPTACLES, EXCEPT THOSE IN THE BATHROOM. SUITES SHALL HAVE A CONTROL MEETING THESE REQUIREMENTS AT THE ENTRY TO EACH ROOM OR AT THE PRIMARY ENTRY TO THE SUITE.
- 9) EXTERIOR LIGHTING SHALL BE CONTROLLED BY A DIRECTIONAL PHOTOCELL OR ASTRONOMICAL TIME SWITCH THAT AUTOMATICALLY TURNS OFF THE EXTERIOR LIGHTING WHEN SUFFICIENT DAYLIGHT IS AVAILABLE OR WHEN THE LIGHTING IS NOT REQUIRED DURING NIGHTTIME HOURS. LIGHTING NOT DESIGNATED FOR DUSK-UNTIL-DAWN OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH. LIGHTING DESIGNATED FOR DUSK-TO-DAWN OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH OR PHOTOSENSOR. ASTRONOMICAL TIME SWITCHES SHALL BE CAPABLE OF RETROFIT PROGRAMMING AND THE TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST 10 HOURS.
- 10) FLUORESCENT LUMINAIRES EQUIPPED WITH ONE, THREE OR ADD-NUMBERED LAMP CONFIGURATIONS THAT ARE RECESS-MOUNTED WITHIN 10 FEET CENTER-TO-CENTER OF EACH OTHER AND FLUORESCENT LUMINAIRES EQUIPPED WITH ONE, THREE OR ANY OTHER ODD-NUMBERED LAMP CONFIGURATION ON THE SURFACE, OR SURFACE-MOUNTED WITHIN 1 FOOT EDGE-TO-EDGE OF EACH OTHER ARE TO BE TANDEM WIRED.
- 11) INTERNALLY ILLUMINATED EXIT SIGNS SHALL NOT EXCEED 5 WATTS PER SIDE.

FIXTURE SYMBOL	FIXTURE ID	FIXTURE DESCRIPTION
	E-1	FIXTURE E-1 CHLORIDE CTX SERIES COMPAC THERMOPLASTIC UNIT MODEL NO. = CTX6L12WCSWA
	E-2	FIXTURE E-2 CHLORIDE VC SERIES EMERGENCY UNIT COMBO FIXTURE MODEL NO. = VCRW
	E-3A	FIXTURE E-3A SYMMETRY SERIES THERMOPLASTIC LED SINGLE SIDED EXIT SIGN MODEL NO. = SLN1RW
	E-3B	FIXTURE E-3B SYMMETRY SERIES THERMOPLASTIC LED DOUBLE SIDED EXIT SIGN MODEL NO. = SLN2RW



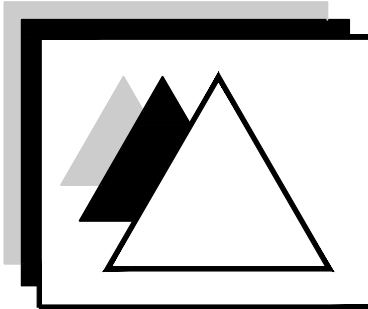
- 1) EACH INTERIOR AREA ENCLOSED BY CEILING HUNG PARTITIONS SHALL HAVE AN INDEPENDENT SWITCHING CONTROL DEVICE, EXCEPT IN AREAS DESIGNATED AS SECURITY OR EMERGENCY AREAS THAT MUST BE CONTINUOUSLY LIGHTED OR IN STAIRWAYS OR CORRIDORS THAT ARE ELEMENTS OF THE ESCAPE ROUTE.
- 2) EACH AREA THAT IS REQUIRED TO HAVE A MANUAL CONTROL SHALL ALSO ALLOW THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A REASONABLY UNIFORM ILLUMINATION PATTERN BY AT LEAST 50%; EXCEPT WHERE AREAS THAT HAVE ONLY ONE LUMINAIRE, AREAS THAT ARE CONTROLLED BY OCCUPANT-SENSING DEVICE, CORRIDORS, STOREROOMS, RESTROOMS OR PUBLIC LOBBIES, LOBBIES, LOUNGES, OFFICES, AND RECEPTION AREAS.
- 3) A SCHEDULED BASIS, USING TIME-OF-DAY, WITH AN INDEPENDENT PROGRAM SCHEDULE THAT CONTROLS THE INTERIOR LIGHTING IN AREAS THAT DO NOT EXCEED 25,000 SQ. FT. AND ARE NOT MORE THAN ONE FLOOR, OR AN OCCUPANT SENSOR THAT SHALL TURN LIGHTING OFF WITHIN 30 MINUTES OF AN OCCUPANT LEAVING A SPACE, OR A SIGNAL FROM ANOTHER CONTROL OR ALARM SYSTEM THAT INDICATES OCCUPANCY OF THE SPACE, SHALL BE PROVIDED FOR ALL AREAS EXCEPT SPACES WHERE AN AUTOMATIC SHUT-OFF WOULD ENDANGER OCCUPANT SAFETY OR SECURITY.
- 4) WHERE AN AUTOMATIC TIME SWITCH CONTROL DEVICE IS INSTALLED SHALL INCORPORATE AN OVER-RIDE SWITCHING DEVICE THAT IS READILY ACCESSIBLE; IS LOCATED SO THAT A PERSON USING THE DEVICE CAN SEE THE LIGHTS OR THE AREA CONTROLLED BY THAT SWITCH, OR SO THAT THE AREA BEING SHUT DOWN IS UNDER THE PERSON'S OPERATION; EXCEPT IN RETAIL STORES AND FOR MORE THAN 2 HOURS WHEN AN OVERRIDE IS INITIATED; AND CONTROLS AN AREA NOT EXCEEDING 5,000 SQ. FT.
- 5) WHERE AN AUTOMATIC TIME SWITCH CONTROL DEVICE IS INSTALLED SHALL INCORPORATE AN AUTOMATIC HOLIDAY SCHEDULING FEATURE THAT TURNS OFF ALL LOADS FOR AT LEAST 24 HOURS, THAT RESULTS IN THE HOLIDAY SCHEDULES, EXCEPT THOSE IN RETAIL STORES AND FOR ASSOCIATED MALLS, RESTAURANTS, GROCERY STORES, PLACES OF RELIGIOUS WORSHIP AND THEATERS.
- 6) SLEEPING UNITS IN HOTELS, MOTELS, BOARDING HOUSES OR SIMILAR BUILDINGS SHALL HAVE AT LEAST ONE MASTER SWITCH AT THE MAIN ENTRY DOOR THAT CONTROLS ALL PERMANENTLY WIRED LUMINAIRES AND SWITCHES THAT REGULATE USES, EXCEPT THOSE IN BATHROOM SUITES SHALL HAVE A CONTROL MEETING THESE REQUIREMENTS AT THE ENTRY TO EACH ROOM OR AT THE PRIMARY ENTRY TO THE SUITE.
- 7) EXTERIOR LIGHTING SHALL BE CONTROLLED BY A DIRECTIONAL PHOTOCELL OR ASTRONOMICAL TIME SWITCH THAT AUTOMATICALLY TURNS OFF THE EXTERIOR LIGHTING WHEN SUFFICIENT DAYLIGHT IS AVAILABLE OR WHEN THE LIGHTING IS NOT REQUIRED DURING NIGHTTIME HOURS; LIGHTING NOT DESIGNATED FOR DUSK-TO-LIGHT-UP OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH; LIGHTING DESIGNATED FOR DUSK-TO-DAWN OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH OR PHOTOSENSOR; ASTRONOMICAL TIME SWITCHES SHALL BE CAPABLE OF PREVENTING OVERHEATING AND THE TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST 10 HOURS.
- 8) FLUORESCENT LUMINAIRES EQUIPPED WITH ONE, THREE OR ADD-NUMBERED LAMP CONFIGURATIONS, THAT ARE RECESS-MOUNTED WITHIN 10 FEET CENTER-TO-CENTER OF EACH OTHER AND FLUORESCENT LUMINAIRES EQUIPPED WITH ONE, THREE OR ANY OTHER ODD-NUMBERED LAMP CONFIGURATION, RECESSED OR SURFACE-MOUNTED WITHIN 1 FOOT EDGE-TO-EDGE OF EACH OTHER ARE TO BE TANDEN WIRED.
- 9) INTERNALLY ILLUMINATED EXIT SIGNS SHALL NOT EXCEED 5 WATTS PER SIDE.

FIXTURE SYMBOL	FIXTURE ID	FIXTURE DISCUSSION
	E-1	FIXTURE E-1 CHLORIDE CTX SERIES COMPAC THERMOPLASTIC UNIT MODEL NO. = CTX6L12WCSWA
	E-2	FIXTURE E-2 CHLORIDE VC SERIES EMERGENCY UNIT COMBO FIXTURE MODEL NO. = VCRW
	E-3A	FIXTURE E-3A SYMMETRY SERIES THERMOPLASTIC LED SINGLE SIDED EXIT SIGN MODEL NO. = SLN1RW
	E-3B	FIXTURE E-3B SYMMETRY SERIES THERMOPLASTIC LED DOUBLE SIDED EXIT SIGN MODEL NO. = SLN2RW



MAIN LEVEL EMERGENCY LIGHTING PLAN
SCALE: 3/16"=1'-0"

E105

DELTA 3
ENGINEERING INC.Professional Civil-Municipal & Structural
Engineering, Grant Writing, Land
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OFFICE REMODEL / ADDITION

3681 PRISM LANE, KIELER, WI 53812

[illegible]

For Construction

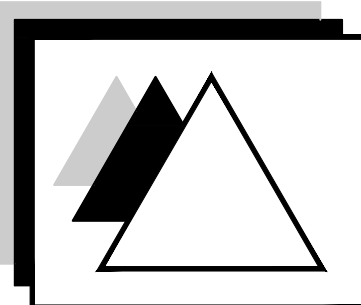
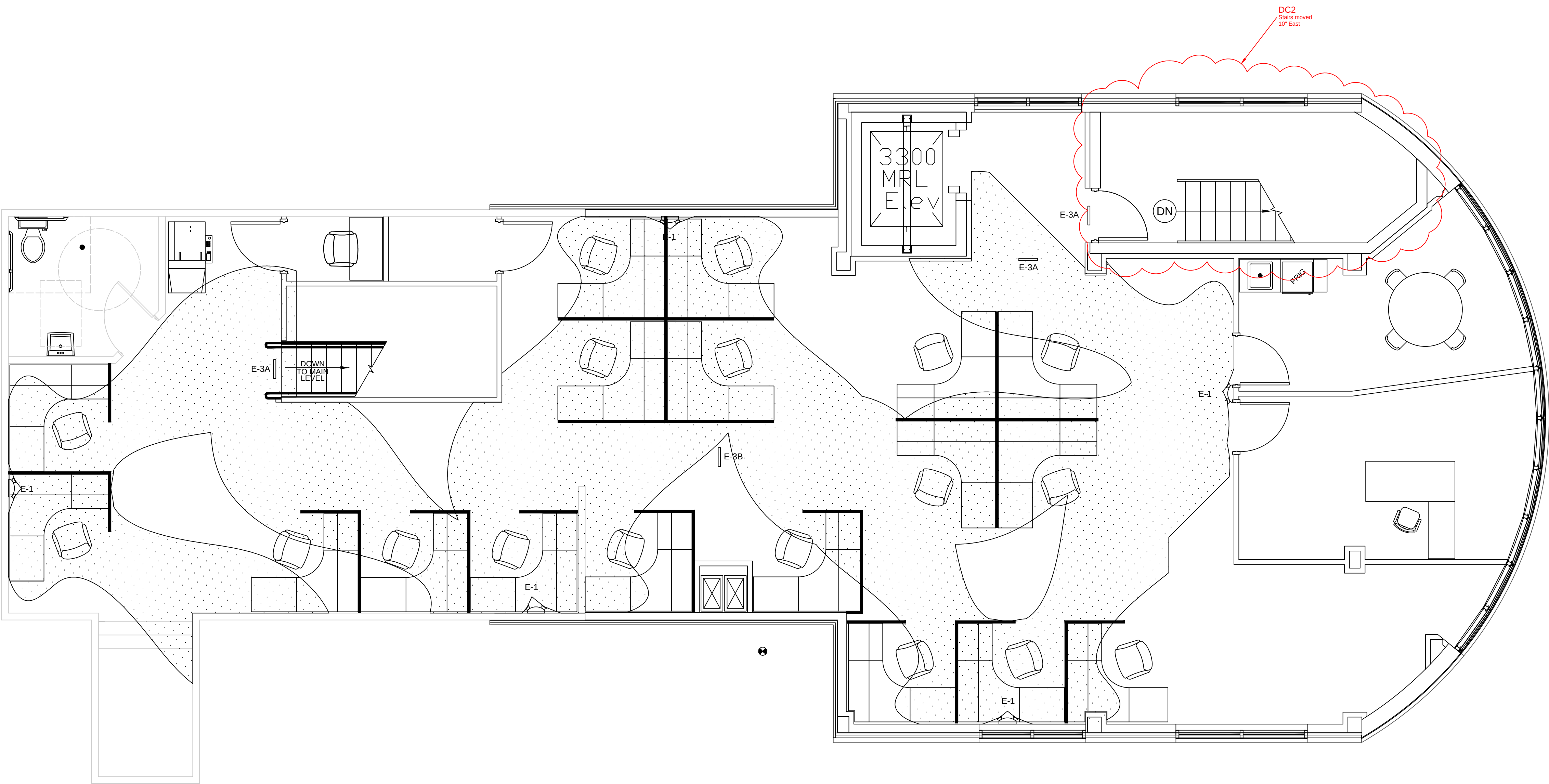
PROJECT NUMBER	D14-041
SHEET SCALE	3/16" = 1'-0"
DRAWN BY	C. SMOODY
DATE ISSUED	August 31, 2015
SHEET NUMBER	E105

2009 IECC NOTES

- 1) EACH INTERIOR AREA ENCLOSED BY CEILING HEIGHT PARTITIONS SHALL HAVE AN INDEPENDENT SWITCHING CONTROL DEVICE; EXCEPT IN AREAS DESIGNATED AS SECURITY OR EMERGENCY AREAS THAT MUST BE CONTINUOUSLY LIGHTED OR IN STAIRWAYS OR CORRIDORS THAT ARE ELEMENTS OF THE MEANS OF EGRESS.
- 2) EACH AREA THAT IS REQUIRED TO HAVE A MANUAL CONTROL, SHALL ALSO ALLOW THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A REASONABLY UNIFORM ILLUMINATION PATTERN BY AT LEAST 50%; EXCEPT WHERE AREAS THAT HAVE ONLY ONE LUMINAIRE, AREAS THAT ARE CONTROLLED BY OCCUPANT-SENSING DEVICE, CORRIDORS, STOREROOMS, RESTROOMS OR PUBLIC LOBBIES, AND SLEEPING QUARTERS.
- 3) A SCHEDULED BASIS, USING TIME-OF-DAY, WITH AN INDEPENDENT PROGRAM SCHEDULE THAT CONTROLS THE INTERIOR LIGHTING IN AREAS THAT DO NOT EXCEED 25,000 SQ. FT. AND ARE NOT MORE THAN ONE FLOOR, OR AN OCCUPANT SENSOR THAT SHALL TURN LIGHTING OFF WITHIN 30 MINUTES OF AN OCCUPANT LEAVING A SPACE, OR A SIGNAL FROM ANOTHER CONTROL OR ALARM SYSTEM THAT INDICATES THE AREA IS UNOCCUPIED, SHALL BE PROVIDED FOR ALL SLEEPING QUARTERS SPACES WHERE AN AUTOMATIC SHUTOFF WOULD ENDANGER OCCUPANT SAFETY OR SECURITY.
- 4) WHERE AN AUTOMATIC TIME SWITCH CONTROL DEVICE IS INSTALLED SHALL INCORPORATE AN OVER-RIDE SWITCHING DEVICE THAT IS READILY ACCESSIBLE; IS LOCATED SO THAT A PERSON USING THE DEVICES CAN SEE THE LIGHTS OR THE AREA CONTROLLED BY THAT SWITCH, OR SO THAT THE AREA BEGINS IT'S ANNOUNCEMENT PERIOD AFTER THE LIGHTING IS INITIATED; AND PROVIDES FOR NO MORE THAN TWO HOURS WHEN AN OVERRIDE IS INITIATED; AND CONTROLS AN AREA NOT EXCEEDING 5,000 SQ. FT.
- 5) WHERE AN AUTOMATIC TIME SWITCH CONTROL DEVICE IS INSTALLED SHALL INCORPORATE AN AUTOMATIC HOLIDAY SCHEDULING FEATURE THAT TURNS OFF ALL LIGHTS FOR UP TO 72 HOURS; THE RESULT BEING THE NORMAL SCHEDULED OPERATION; EXCEPT IN RETAIL STORES AND ASSOCIATED MARKETS, RESTAURANTS, GROCERY STORES, PLACES OF RELIGIOUS WORSHIP AND THEATERS.
- 6) SLEEPING UNITS IN HOTELS, MOTELS, BOARDING HOUSES OR SIMILAR BUILDINGS SHALL HAVE AT LEAST ONE MASTER SWITCH FOR THE MAIN ENTRY DOOR THAT CONTROLS ALL PERMANENTLY WIRED LUMINAIRES AND SWITCHED RECEPTACLES, EXCEPT THOSE IN THE BATHROOM. SUITES SHALL HAVE A CONTROL MEETING THESE REQUIREMENTS AT THE ENTRY TO EACH ROOM OR AT THE PRIMARY ENTRY TO THE SUITE.
- 7) EXTERIOR LIGHTING SHALL BE CONTROLLED BY A DIRECTIONAL PHOTOCELL OR ASTRONOMICAL TIME SWITCH THAT AUTOMATICALLY TURNS OFF THE EXTERIOR LIGHTING WHEN SUFFICIENT DAYLIGHT IS AVAILABLE OR WHEN THE LIGHTING IS NOT REQUIRED DURING NIGHTTIME HOURS. LIGHTING NOT DESIGNATED FOR DUSK-TIL-DAWN OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH; LIGHTING DESIGNATED FOR DUSK-TO-DAWN OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH WITH PHOTOCELL; ASTRONOMICAL TIME SWITCHES SHALL BE CAPABLE OF RETAINING PROGRAMMING AND THE TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST 10 HOURS.
- 8) FLUORESCENT LUMINAIRES EQUIPPED WITH ONE, THREE OR ADD-NUMBERED LAMP CONFIGURATIONS, THAT ARE RECESS-MOUNTED WITHIN 10 FEET CENTER-TO-CENTER OF EACH OTHER AND ARE NOT EQUIPPED WITH A REMOTE ON/OFF SWITCH OR WITH A REMOTE DIMMABLE LAMP CONFIGURATION, THAT ARE PENDANT- OR SURFACE-MOUNTED WITHIN 1 FOOT EDGE-TO-EDGE OF EACH OTHER ARE TO BE TANDEM WIRED.
- 9) INTERNALLY ILLUMINATED EXIT SIGNS SHALL NOT EXCEED 5 WATTS PER SIDE.

FIXTURE LEGEND

FIXTURE SYMBOL	FIXTURE ID	FIXTURE DISCRIPTION
	E-1	FIXTURE E-1 CHLORIDE CTX SERIES COMPAC THERMOPLASTIC UNIT MODEL NO. = CTX6L12WCWSA
	E-2	FIXTURE E-2 CHLORIDE VC SERIES EMERGENCY UNIT COMBO FIXTURE MODEL NO. = VCRW
	E-3A	FIXTURE E-3A SYMMETRY SERIES THERMOPLASTIC LED SINGLE SIDED EXIT SIGN MODEL NO. = SLN1RW
	E-3B	FIXTURE E-3B SYMMETRY SERIES THERMOPLASTIC LED DOUBLE SIDED EXIT SIGN MODEL NO. = SLN2RW

DELTA 3
ENGINEERING INC.

Professional Civil-Municipal & Structural
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OFFICE REMODEL / ADDITION

3681 PRISM LANE, KIELER, WI 53812

REVISIONS:

[illegible]

For Construction

PROJECT NUMBER	D14-041
SHEET SCALE	1/4" = 1'-0"
DRAWN BY	C. SMOODY
DATE ISSUED	August 31, 2015
SHEET NUMBER	E106

UPPER LEVEL EMERGENCY LIGHTING PLAN
SCALE: 1/4"=1'-0"

E106



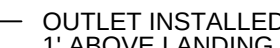
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	PHONE TERMINATION OUTLET: RJ-11 WIRE: CAT V
	COMPUTER TERMINATION OUTLET: RJ-45 WIRE: CAT V
	DUPLEX OUTLET
	GROUND FAULT INTERRUPTER
	WEATHER PROOF OUTLET
	OHD OPENER SWITCH AND OUTLET (CONTRACTOR TO PROVIDE 1 REMOTE PER DOOR)
	220v OUTLET
	CABLE TV

NOTES:

- ELECTRICAL CONTRACTOR RESPONSIBLE TO INSTALL ALL ELECTRICAL COMPONENTS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- ELECTRICAL CONTRACTOR RESPONSIBLE FOR ALL RELATED MATERIALS & LABOR TO PROVIDE A FULLY FUNCTIONABLE WASTEWATER TREATMENT PLANT.
- ELECTRICAL CONTRACTOR TO VERIFY ALL ELECTRICAL REQUIREMENTS & LOCATIONS WITH EQUIPMENT SUPPLIERS PRIOR TO INSTALLATION.



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OFFICE REMODEL / ADDITION

[illegible]

PROJECT NUMBER	D14-041
SHEET SCALE	1/4" = 1'-0"
DRAWN BY	J. Perrin
DATE ISSUED	August 31, 201

SHEET NUMBER	E107
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BASEMENT LEVEL ELECTRICAL PLAN
SCALE: 1/4"=1'-0"

E107



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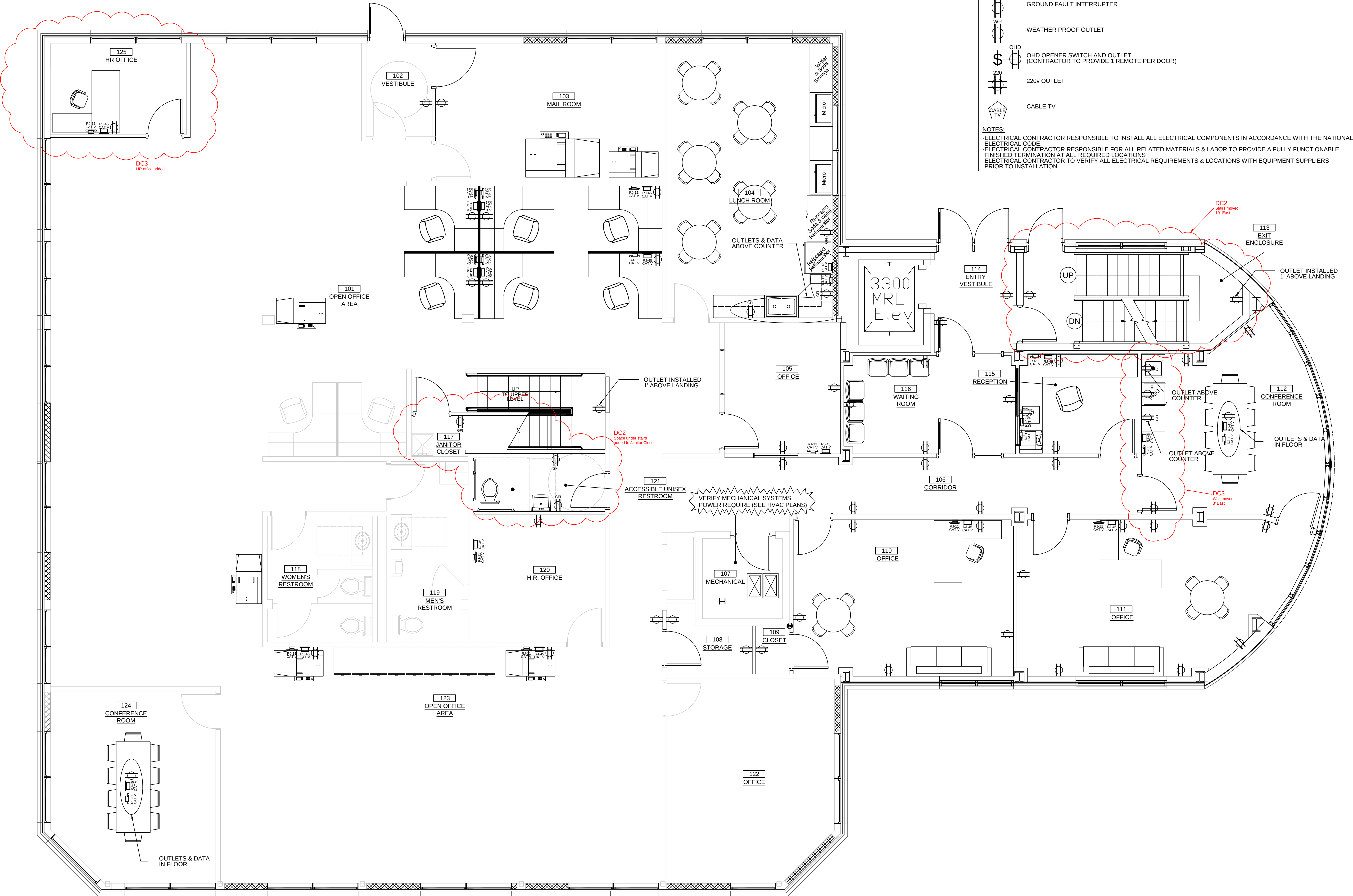
ECT BER	D14-041
ET LE	1/4" = 1'-0"
WN y	J. Perrin
E ED	August 31, 2015

E108

	PHONE TERMINATION OUTLET: RJ-11 WIRE: CAT V
	COMPUTER TERMINATION OUTLET: RJ-45 WIRE: CAT V
	DUPLEX OUTLET
	GROUND FAULT INTERRUPTER
	WEATHER PROOF OUTLET
	OHD OPENER SWITCH AND OUTLET (CONTRACTOR TO PROVIDE 1 REMOTE PER DOOR)
	220v OUTLET
	CABLE TV

NOTES:

- ELECTRICAL CONTRACTOR RESPONSIBLE TO INSTALL ALL ELECTRICAL COMPONENTS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- ELECTRICAL CONTRACTOR RESPONSIBLE FOR ALL RELATED MATERIALS & LABOR TO PROVIDE A FULLY FUNCTIONABLE ELECTRICAL SYSTEM AT ALL REQUIRED LOCATIONS
- ELECTRICAL CONTRACTOR TO VERIFY ALL ELECTRICAL REQUIREMENTS & LOCATIONS WITH EQUIPMENT SUPPLIERS PRIOR TO INSTALLATION



MAIN LEVEL ELECTRICAL PLAN

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

108

	PHONE TERMINATION OUTLET: RJ-11 WIRE: CAT V
	COMPUTER TERMINATION OUTLET: RJ-45 WIRE: CAT V
	DUPLEX OUTLET
	GROUND FAULT INTERRUPTER
	WEATHER PROOF OUTLET
	OHD OPENER SWITCH AND OUTLET (CONTRACTOR TO PROVIDE 1 REMOTE PER DOOR)
	220v OUTLET
	CABLE TV

NOTES:

- ELECTRICAL CONTRACTOR RESPONSIBLE TO INSTALL ALL ELECTRICAL COMPONENTS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- ELECTRICAL CONTRACTOR RESPONSIBLE FOR ALL RELATED MATERIALS & LABOR TO PROVIDE A FULLY FUNCTIONABLE FINISHED TERMINATION AT ALL REQUIRED LOCATIONS
- ELECTRICAL CONTRACTOR TO VERIFY ALL ELECTRICAL REQUIREMENTS & LOCATIONS WITH EQUIPMENT SUPPLIERS PRIOR TO INSTALLATION



PSSI
REMODEL / ADDITION
3661 PRISM LANE, KIELER, WI 53812

[illegible]

For Construction	
PROJECT NUMBER	D14-041
SHEET SCALE	1/4"=1'-0"
DRAWN BY	J. Perrin
DATE ISSUED	August 31, 2015
SHEET NUMBER	E109

MAIN LEVEL FIRE ALARM PLAN
SCALE: 1/8"=1'-0"

BASEMENT LEVEL FIRE ALARM PLAN
SCALE: 1/8"=1'-0"

- | LEGEND | |
|---|---|
|  | FIRE ALARM ANNUNCIATOR PANEL |
|  | MANUAL PULL STATION DEVICE |
|  | FIRE ALARM COMBINATION SPEAKER/STROBE DEVICE |
|  | FIRE ALARM STROBE ONLY DEVICE |
|  | HEAT DETECTOR - CEILING MOUNT |
|  | SMOKE DETECTOR - CEILING MOUNT |
|  | FIRE ALARM DUCT SMOKE DETECTOR
S= SUPPLY, R=RETURN |
|  | FIRE ALARM CONNECTION TO TAMPER SWITCH |
|  | FIRE ALARM CONNECTION TO FLOW SWITCH |
|  | FIRE ALARM RELAY |
|  | FIRE ALARM REMOTE TEST SWITCH |
|  | FIRE ALARM DOOR HOLD OPEN DEVICE |
|  | FIRE ALARM CEILING MOUNTED COMBINATION
SPEAKER/STROBE DEVICE |
|  | FIRE ALARM CEILING MOUNTED SPEAKER DEVICE |
|  | FIRE ALARM CEILING MOUNTED STROBE DEVICE |

CLASSIFICATION OF THE SUPERVISING STATION: MONITORING TYPE REMOTE SUPERVISION

NOTES:

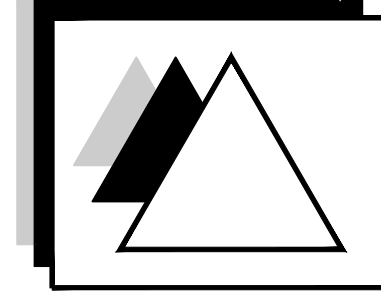
- Automatic fire detectors utilized for the purpose of performing fire safety functions shall be connected to the buildings fire alarm control unit. Detectors shall, upon actuation, perform the intended function and activate the alarm notification appliances or activate a visible and audible supervisory signal at a constantly attended location.
- Total coverage shall include all rooms, halls, storage areas, basements, attics, lofts, spaces above suspended ceilings, and other subdivisions and accessible spaces, as well as the inside of all closets, elevator shafts, enclosed stairways, dumbwaiter shafts, and chutes. - Where partitions extend to within 15% of the ceiling height, the spaces separated by the partitions shall be considered as separate rooms.
- All points on the ceiling shall have a detector within a distance equal to or less than 0.7 times the listed spacing of the fixture. - For irregularly shaped areas, the spacing between detectors shall be permitted to be greater than the listed spacing, provided that the maximum spacing from the detector to the farthest point of a sidewall or corner within its zone of protection is not greater than 0.7 times the listed spacing.
- Wiring to auxiliary devices and equipment used to accomplish fire safety functions shall be monitored for integrity in accordance with NFPA 72.
- In areas that are not continuously occupied, a single smoke detector shall be provided at the location of each fire alarm control unit, notification appliance circuit extenders and supervising station transmitting equipment.
- Manual fire alarm boxes shall be located not more than 5' from the entrance to each exit. Additional manual fire alarm boxes shall be located so that travel distance to the nearest box does not exceed 200'.
- The height of the manual fire alarm boxes shall be a minimum of 42" and a maximum of 48" measured vertically, from the floor level to the activating handle or lever of the box.
- Manual fire alarm boxes shall be red in color.
- Where fire alarm systems are not monitored by supervising station, an approved permanent sign shall be installed adjacent to each manual fire alarm box that reads: WHEN ALARM SOUNDS - CALL FIRE DEPARTMENT.
- The fire code official is authorized to require the installation of listed manual fire alarm box protective covers to prevent malicious false alarms or to provide the manual fire alarm box with protection from physical damage. The protective cover shall be transparent or red in color with transparent face to permit visibility of the manual fire alarm box.
- Where an automatic smoke detection system is required it shall utilize smoke detectors unless ambient conditions prohibit such an installation. In spaces where smoke detectors cannot be utilized due to ambient conditions, approved automatic heat detectors shall be permitted.
- A fire alarm system shall annunciate at the panel and shall initiate occupant notification upon activation.
- Audible alarm notification appliances shall be provided and emit a distinctive sound that is not to be used for any purpose other than that of a fire alarm.
- The audible alarm notification appliances shall provide a sound pressure level of 15 decibels above the average ambient sound level of 5dBA above the maximum sound level having a duration of at least 60 seconds, whichever is greater.
- The maximum sound pressure level for audible alarm notification appliances shall be 110 dBA at the minimum hearing distance from the audible appliance.
- Fire alarm systems shall be installed in accordance with NFPA 72
- Wiring shall comply with the requirements of NFPA 70 and NFPA 72.
- The primary and secondary power supply for the fire alarm system shall be provided in accordance with NFPA 72
- Access shall be provided to each fire alarm device and notification appliance for periodic inspection, maintenance and testing.
- With every new system, a documentation cabinet shall be installed at the system control unit or at another approved location at the protected premises.
- Secondary power supply shall automatically provide power to the protected premises system within 10 seconds whenever the primary power supply fails to provide the minimum voltage required for proper operation.
- Testing shall be performed in accordance with NFPA 72 Table 14.4.3.2 or more often if required by authority having jurisdiction.

SEQUENCE OF OPERATION:

- 1.) DEVICES ACTIVATES I.E. PULL STATION AND SMOKE DETECTOR
- 2.) SIMULTANEOUSLY SIRENS ACTIVATE AND CENTRAL STATION NOTIFIED AND THE ELEVATOR RECALL IS ACTIVATED
- 3.) CENTRAL STATION NOTIFIES FIRE DEPARTMENT

MISC.

- 1.) IF THERE IS A GROUND FAULT THE SYSTEM GIVES AN AUDIBLE ALERT AND CENTRAL STATION RECEIVES THE SIGNAL AND MAKES NOTIFICATION.

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33681 PRISM LANE, KIELER, WI 53812

[illegible]

For Construction

PROJECT NUMBER	D14-041
SHEET SCALE	AS NOTED
DRAWN BY	J.Baillie
DATE ISSUED	August 31, 2015
SHEET NUMBER	FA101

PLUMBING FIXTURE SCHEDULE								
ID	FIXTURE	DRU	WASTE		HOT WATER		COLD WATER	
			TRAP	VENT	WSFU	SIZE	WSFU	SIZE
								DESCRIPTION
								FAUCET, MANIFESTED WALNUT KNOX, HALL WUNG LAVATORY AREA, WHITE, OVER FLOW MODEL: 2008
L-1	LAVATORY	1	1 1/4"	1 1/2"	5	1/2"		FAUCET, CHICAGO FAUCET 200-AH-WAXE3 37MMCP SINGLE LEVER HOT & COLD WATER MIXING SINK BRACKET, CHROME PLATE, 4" CENTER, 1/2" SPOT, FOUR HOLE TRAP & DRAIN, INSULATION WRAPPED
MB-1	MOP BASIN	3	2"	1 1/2"	2	1/2"		FITTER, MASTIFF MOP SERVICE BASIN MODEL 63M 24"x24"x10" HIGH BASIN FAUCET, CHICAGO SERVICE SINK FAUCET 3.05-RCP, 3/4" MALE MOSE THREADED OUTLET, PAIL HOOD, WATTS MODEL SAC NON-REMOVABLE VACCUUM BREAKER ACCESSORIES: HOSE BRACKET, MOP BRACKET, WALL GUARDS FITTING: MANIFESTED DIAL TO STAMP HEIGHT LOOSE MODEL NO. 137-160
WC-1	WATER CLOSET	6	3"	2"	---	---	3"	ACCESSORIES: ELONGATED, PRIMO TOLIT SEAT FITTING: ELKAY CR332Z-7, 20# YIP, 3/4" SS SINK, SELF RIMMING, DOUBLE BOWL, 37"x22"x7 DEEP, 1 HOLES AT 4" CENTERS FAUCET, CHICAGO FAUCET 200-AH-WAXE3 37MMCP MANUAL FAUCET, #7 WRESTLE AX MINERAL SPRING, CHROME FINISH, 1/2" SPOT, DEEP MOUNTED, SINK SPRAY, FOUR HOLE MOUNTING @ 4" CENTERS
S-1	SINK - 2 COMPARTMENT	2	1 1/2"	1 1/2"	2	1/2"		TRAP, CHROME PLATED CAST BRASS P-TRAP WITH BASKET STRAINER DRAINS STOPS & SUPPLIES: MAGUIRE PIVOTAL LOCKSE KEY QUARTER TURN ANGLE STOPS WITH CHROME OSCULOTRONO, & CHROME PLATE COPPER RISERS
S-2	SINK	1	1 1/2"	1 1/2"	1.5	1/2"	1.5	FAUCET, ADVANCE TACO STAINLESS STEEL DROP IN SINGLE BOWL 16"x14"x10" SINK - MODEL NO. SS-109-10 FAUCET, AMERICAN STANDARD HERITAGE TWO HANDLE CENTERSET SINK FAUCET WITH AURA COMPLIANT WIRET BALE HANDLES MODEL NO. 7490-00

PLUMBING DRAIN & CLEAN OUT SCHEDULE					
ID	FIXTURE	WASTE			DESCRIPTION
		DRU	TRAP	VENT	
FD-1	FLOOR DRAIN	3	3"	1/2"	FIXTURE: SIOUX CHIEF 832 SERIES, ABS BODY, NICKEL BRONZE ADJUSTABLE STRAINER, ADJUSTABLE ON GRADE INSTALLATION
FD-1	FLOOR DRAIN	3	3"	1/2"	FIXTURE: SIOUX CHIEF SOLVENT WELD FLOOR DRAIN SNAP IN STAINLESS STEEL STRAINER MODEL 845-012
FOO-1	FLOOR CLEAN OUT	---	---	---	FIXTURE: SIOUX CHIEF 834 SERIES, NICKEL BRONZE ADJUSTABLE COVER, ADJUSTABLE ON GRADE INSTALLATION

HOT WATER HEATER SCHEDULE		
ID	FIXTURE	DESCRIPTION
WH-1	HOT WATER HEATER - GAS	A.O. SMITH RESIDENTIAL GAS WATER HEATER MODEL: GDV-40 (38,000 btu/h, 73 FIRST HOUR GALLON RATING, 41 GPH RECOVERY)

WATER CALCULATION WORKSHEET					
WATER CALCULATION WORKSHEET FOR _____		KISARS CONTRACT CLEANING OFFICE REMODEL / ADDITION			
		NAME/ADDRESS OF PROJECT _____			
INFORMATION REQUIRED TO CALCULATE WATER SERVICE					
1. DEMAND OF BUILDING IN GALLONS PER MINUTE		WFUS _F =	<u>61</u>	(GPM) =	<u>32</u>
2. DIFFERENCE IN ELEVATION FROM MAIN OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE				(feet) =	<u>15</u>
3. SIZE OF THE WATER METER (WHEN AVAILABLE)				(inch) =	<u>90</u>
4. DEVELOPED LENGTH FROM MAIN OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE.				(feet) =	<u>97</u>
5. LOW PRESSURE AT MAIN IN STREET OR EXTERNAL PRESSURE TANK.				(psig) =	<u>50 PSI</u>
CALCULATE WATER SERVICE PRESSURE LOSS					
6. LOW PRESSURE AT MAIN IN STREET OR EXTERNAL PRESSURE TANK (VALUE OF #5 ABOVE)					<u>50 PSI</u>
7. WATER SERVICE DIAMETER IS <u>2.0</u> WATER IS <u>COPPER</u> PRESSURE LOSS PER 100' = <u>1</u> PSI x <u>0.3</u> DECIMAL EQUIVALENT OF SERVICE LENGTH, IE (#5 + #6)					<u>0.3</u>
(SUBTRACT LINE F FROM LINE B) SUBTOTAL					<u>48.10</u>
8. DETERMINED PRESSURE GRAB OR LOSS DUE TO ELEVATION (MULTIPLY L VALUE OF #2 ABOVE BY .434)				VALUE OF B	<u>6.51</u>
9. AVAILABLE PRESSURE AFTER BUILDING CONTROL VALVE (SUBTRACT R ADD LINE B)				SUBTOTAL	<u>42.59</u>
CALCULATE THE PRESSURE AVAILABLE FOR UNIFORM LOSS (VALUE OF A)					
10. AVAILABLE PRESSURE AFTER THE BLDG. CONTROL VALVE (FROM P# ABOVE)				VALUE OF B	<u>42.59</u>
11. PRESSURE LOSS OF WATER METER (WHEN METER IS REQUIRED OR INSTALLED)				VALUE OF C	<u>8</u>
(SUBTRACT LINE C FROM LINE B)					<u>36.59</u>
12. PRESSURE AT CONTROLLING FIXTURE (CONTROLLING FIXTURE IS _____ FLOOR LEVEL BREAK ROOM SINK _____)				VALUE OF D	<u>8</u>
(SUBTRACT THE VALUE OF D)					<u>28.59</u>
13. DIFFERENCE IN ELEVATION BETWEEN THE BUILDING CONTROL VALVE AND THE CONTROLLING FIXTURE IN FEET <u>22'</u> x <u>.434psi/ft</u>				VALUE OF E	<u>9.62</u>
(SUBTRACT THE VALUE OF E)					<u>18.61</u>
14. PRESSURE LOSS DUE TO WATER TREATMENT DEVICES, INSTANTANEOUS WATER HEATERS AND BACK FLOW PREVENTERS WHICH SERVE THE CONTROLLING FIXTURE (PRESSURE LOSS DUE TO <u>SOFTNER</u> _____)				VALUE OF F	<u>13</u>
(SUBTRACT THE VALUE OF F)					<u>5.61</u>
15. DEVELOPED LENGTH FROM BUILDING CONTROL VALVE TO CONTROLLING FIXTURE IN FEET <u>130'</u> x <u>L 5</u>				VALUE OF G	<u>195</u>
(DIVIDE BY THE VALUE OF G) SUBTOTAL					<u>0.028</u>
(WATER DISTRIBUTION PIPING MATERIAL IS _____ VARIES - SEE PLAN _____)					
A. PRESSURE AVAILABLE FOR UNIFORM LOSS				MULTIPLY BY VALUE OF "A"	<u>2.88</u>

PLUMBING LEGEND

-----	SANITARY DRAIN, WASTE OR SEWER (SAN)
-----	CLEAR WATER WASTE
-----	PROCESS WASTE
-----	HIGH STRENGTH PROCESS WASTE
-----	SANITARY VENT
-----	CLEAR WATER VENT
-----	PROCESS WASTE VENT
-----	HIGH STRENGTH PROCESS WASTE VENT
-----	COLD WATER
-----	HOT WATER
-----	HOT WATER RECIRCULATION
-----	PROCESS COLD WATER
-----	PROCESS 150 DEGREE HOT WATER
-----	PROCESS 150 DEGREE HOT WATER RECIRCULATION
-----	NON-POTABLE COLD WATER
-----	NON-POTABLE HOT WATER
-----	NON-POTABLE RECIRCULATION
-----	TEMPERED WATER
-----	COLD SOFT WATER
-----	COMPRESSED AIR
-----	DOMESTIC WATER SERVICE
 TEE (BRANCH TO SIDE)  TEE (BRANCH DOWN)  RISER UP  RISER DOWN  CLEAN OUT (CO), WARD CLEAN OUT (WCO)  FLOOR CLEAN OUT (FCO), WARD CLEAN OUT (WCO)  DOWN SPOUT NOZZLE (DSN)  UNION  FLOW  CHECK VALVE  PRESSURE REGULATING VALVE (PRV)  HOSE BIBB(H) OR WALL HYDRANT (WH)  CAP  BALANCING VALVE  SHUT OFF VALVE  PIPE STRAINER  FIXTURE STOP  VALVE IN RISER  WATER HAMMER ARRESTOR  RELIEF VALVE  RBWP - REDUCED PRESSURE ZONE BACK FLOW PREVENTER  FLOOR DRAIN (FD)  HUB DRAIN (HD)  TRENCH DRAIN (TD)	

ABBREVIATIONS

A	COMPRESSED AIR
AF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
BFG	BELOW FINISH GRADE
BFV	BELOW FINISH GRADE
BWV	BACKWASH VALVE
CB	CATCH BASIN
CD	CLEAN OUT
CC	CIRCULATION PUMP
CS	COLD SOLT WATER
CO	COLD WATER
COW	CLEAR WATER CISTERN
CR	CLEAR WATER
DRK	DRINKING FOUNTAIN
DS	DOMESTIC WATER HEAT EXCHANGER
DSN	DOWN SPOUT NOZZLE
DSM	DRUMSHAKER
E	EXISTING
EC	ELECTRICAL CONTRACTOR
EIW	EMERGENCY EYE WASH
EW	EMERGENCY SHOWER/ EYE WASH
FCO	FLOOR CLEAN OUT
G	NATURAL GAS
GC	GENERAL CONTRACTOR
HB	HOSE BIB
HV	HIGH STRENGTH PROCESS WASTE VENT
HS	HIGH STRENGTH PROCESS WASTE
HW	HOT WATER
HWR	HOT WATER RECIRCULATION
IE	INVERT ELEVATION
L	LAVATORY
MB	MOP BASIN
MA	MAN HOLE
NBP	NOT POTABLE COLD WATER
NPN	NOT POTABLE
NPR	NOT POTABLE HOT RECIRCULATION
OW	OVERFLOW
ORD	OVERFLOW ROOF DRAIN
PCW	PROCESS COLD WATER
PHW	PROCESS HOT WATER
PHR	PROCESS HOT WATER RECIRCULATION
PNW	PROCESS NITROGEN WATER
PV	PROCESS WASTE VALVE
PP	PROCESS WATER
RPBP	REDUCED PRESSURE ZONE BACK FLOW PREVENTER
SNK	SINK
SAN	SANITARY
SD	SUBSOIL DRAIN
ST	STORM
T	TEMPERED WATER
TD	TRENCH DRAIN
TWV	THERMOSTAT MIXING VALVE
UR	URINAL
V	VENT
VTR	VENT THRU ROOF
W	DOMESTIC WATER SERVICE
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WH	WATER HEATER
WHA	WATER HAMMER ARRESTOR
WHR	WATER HEATER
YCO	YARD CLEAN OUT

GENERAL NOTE PLUMBING NOTES:

STAINLESS STEEL SYSTEM:

- 1) THE MINIMUM SIZE OF A GRAVITY FLOW SANITARY BUILDING SEWER SHALL BE 8" IN DIAMETER.
- 2) IF THE SIZE OF A BUILDING SEWER IS LOCATED AT A GSEPTIC OR NOT LESS THAN 8' BELOW FINISHED GRADE UNLESS THE BUILDING SEWER DISCHARGES TO A SEPTIC TANK, HOLDING TANK OR COLLECTION TRENCH THEN THE BUILDING SEWER SHALL BE 8" BELOW FINISHED GRADE.

CLEAN OUTS

- 1) STORM BUILDING SEWERS 10" OR LESS IN DIAMETER SHALL HAVE CLEAN OUTS LOCATED NOT MORE THAN 100' APART.
- 2) STORM BUILDING SEWERS 12" OR LESS IN DIAMETER SHALL HAVE MANHOLES LOCATED NOT MORE THAN 100' APART.
- 3) ALL MANHOLES AND MAN HOLES ARE INSTALLED IN SANITARY BUILDING SEWERS 8" OR LESS IN DIAMETER THE DISTANCE FROM A CLEAN OUT TO A MAN HOLE UPSTREAM IS NOT TO BE MORE THAN 200'.
- 4) A CLEAN OUT SHALL BE LOCATED WITHIN 10' OF EITHER THE BUILDING DOWN AND THE BUILDING SEWER THE DISTANCE FROM A MAN HOLE TO A CLEAN OUT UPSTREAM IS NOT TO BE MORE THAN 300'.
- 5) EVERY CLEAN OUT SHALL BE INSTALLED IN THE DIRECTION OF WASTE FLOW OR AT A RIGHT ANGLE.
- 6) A MANHOLE TO LOCATED BURIED UNDERGROUND EXTERIOR NON METALLIC SEWERMAINS AND WATER SERVICES MANHOLE MUST BE PROVIDED WITH TRACER WIRE.

STORM & CLEAN WATER DRAIN SYSTEM:

- 1) THE MINIMUM SIZE OF A GRAVITY FLOW STORM BUILDING SEWER SHALL BE 3" IN DIAMETER BETWEEN THE BUILDING AND THE LOT LINE.
- 2) THE MINIMUM SIZE OF A GRAVITY FLOW STORM BUILDING SEWER SHALL BE 8" IN DIAMETER BETWEEN THE BUILDING AND THE LOT LINE.
- 3) A GRAVITY FLOW STORM BUILDING SEWER SHALL NOT BE SMALLER THAN ANY STORM BUILDING DRAIN PERMITTED TO BE INCREASED IN SLOPE IS SUFFICIENT TO MAINTAIN THE VOLUME RATE OF FLOW.
- 4) A REDUCTION IN DIAMETER FOR THE BUILDING SIEWER SHALL BE MADE IN A MANHOLE.

CLEAN OUTS

- 1) STORM BUILDING SEWERS 10" OR LESS IN DIAMETER SHALL BE PROVIDED WITH CLEAN OUTS
- 2) STORM BUILDING SEWERS 10" OR LESS IN DIAMETER SHALL HAVE CLEAN OUTS LOCATED NOT MORE THAN 100' APART.
- 3) STORM BUILDING SEWERS 12" OR LESS IN DIAMETER SHALL HAVE MANHOLES LOCATED NOT MORE THAN 100' APART.
- 4) ALL MANHOLES AND MAN HOLES ARE INSTALLED IN SANITARY BUILDING SEWERS 8" OR LESS IN DIAMETER THE DISTANCE FROM A CLEAN OUT TO A MAN HOLE UPSTREAM IS NOT TO BE MORE THAN 200'.
- 5) A CLEAN OUT SHALL BE LOCATED WITHIN 10' OF EITHER THE BUILDING DOWN AND THE BUILDING DRAIN THE DISTANCE FROM A MAN HOLE TO A CLEAN OUT UPSTREAM IS NOT TO BE MORE THAN 300'.

WATER DISTRIBUTION:

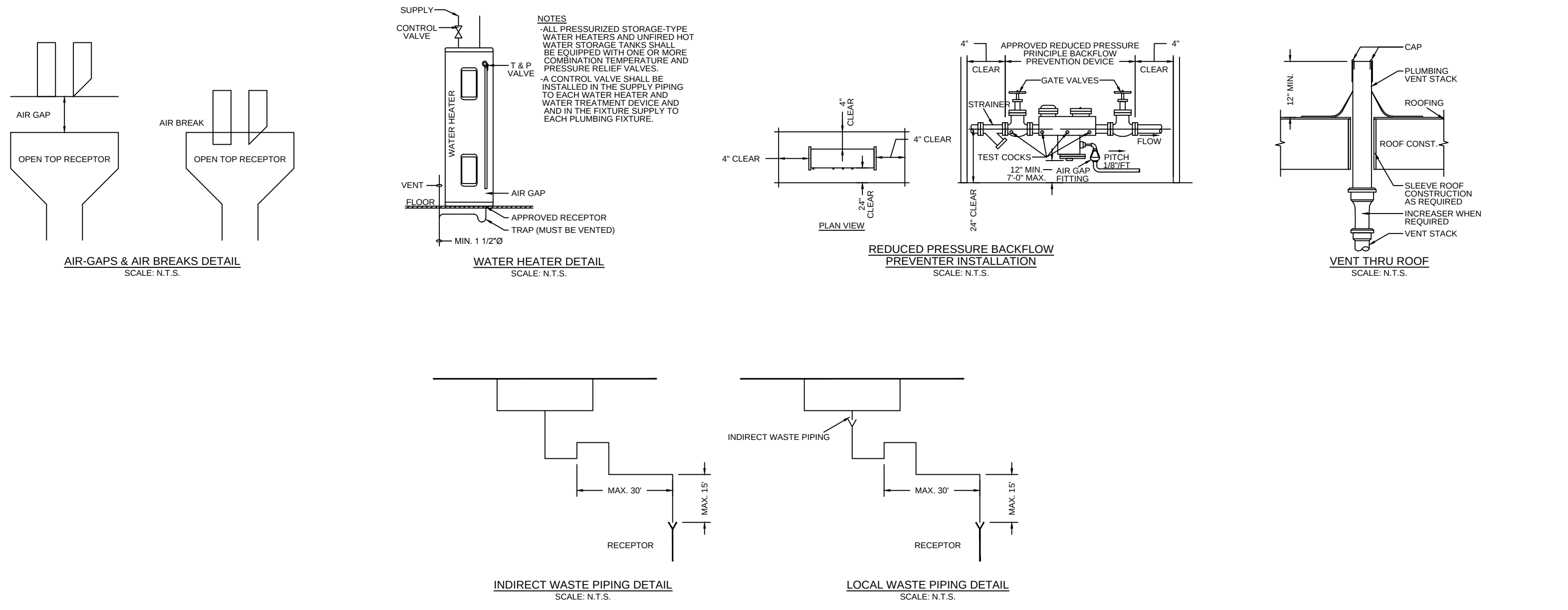
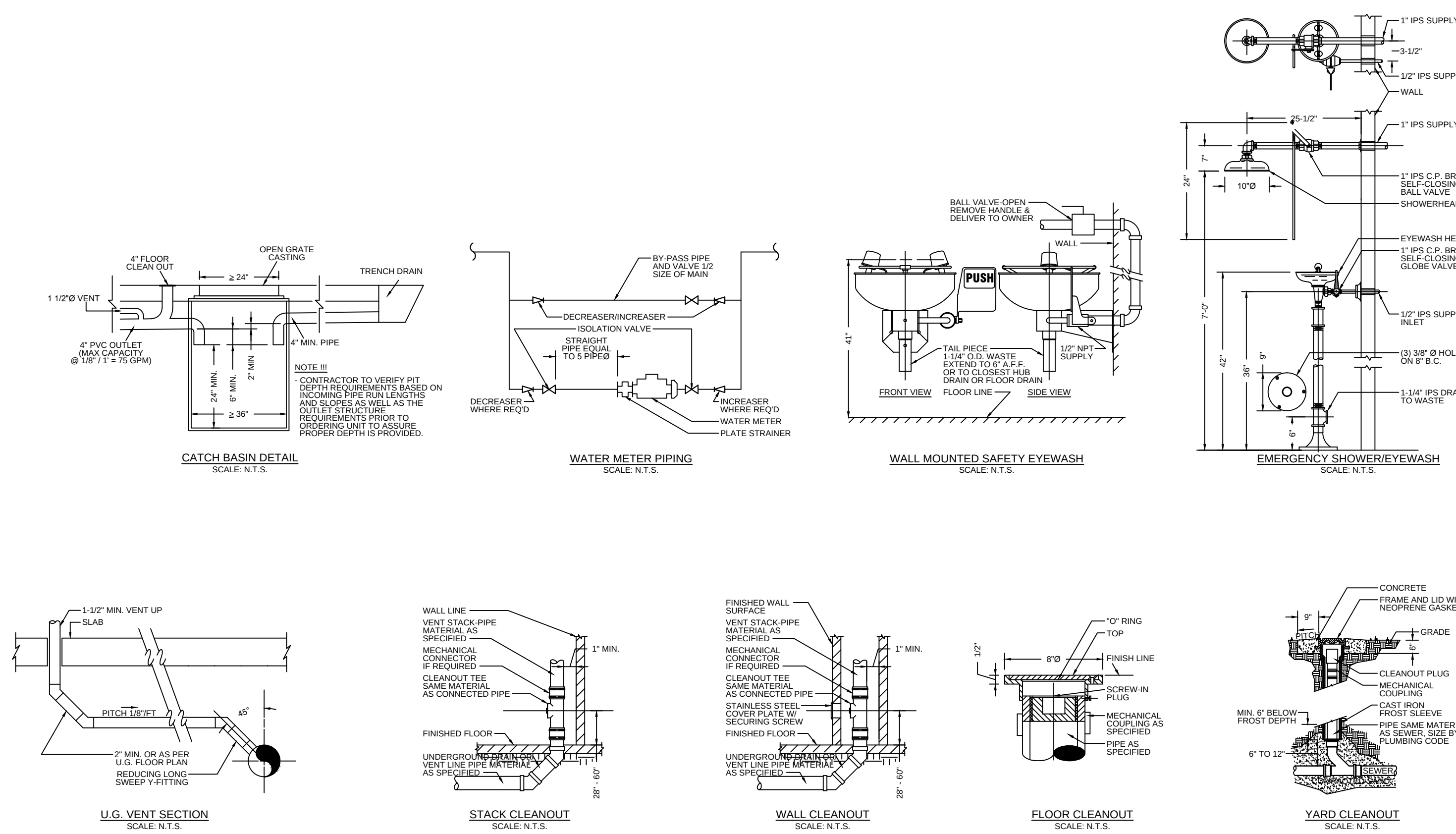
- 1) A CURB STOP SHALL BE INSTALLED IN EACH WATER SERVICE WHICH CONNECTS TO A PUBLIC MAIN, TRUNK MAIN, MAIN, TIE LINE, OR SERVICE LINE.
- 2) THE MINIMUM SIZE OF MAINS AND WATER SERVICE SHALL NOT BE LESS THAN 1" DIAMETER.
- 3) ALL WATER MAINS SHALL BE LOCATED AT A MINIMUM OF 4' FROM ANY ADJACENT LOT LINE OR 3' HORIZONTAL FROM ANY SANITARY SEWER UNLESS THE WATER SERVICE PIPING IS INSTALLED IN A TRENCH WITH THE SANITARY SEWER.
- 4) NO PRIVATE WATER MAIN OR WATER SERVICE MAY BE INSTALLED WITHIN 6" OF A STORM BUILDING SEWER OR COLLECTION TRENCH OR SEPTIC TANK UNLESS THE INSTALLATION PLAN IS APPROVED. ALL CHANGES ADDRESSED IN APPROVAL LETTER ARE TO BE MADE.

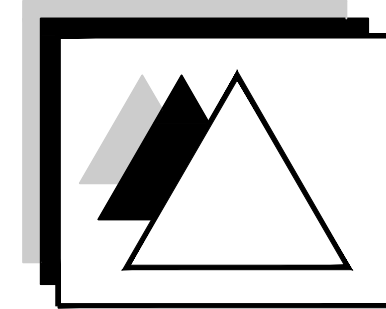
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GENERAL WATER DISTRIBUTION NOTES

WATER DISTRIBUTION:

- 1) IF A WATER SERVICE 6" OR LESS IN DIAMETER CONNECTS TO A PUBLIC WATER MAIN, A CONNECTION COCK SHALL BE INSTALLED AT THE CONNECTION TO THE PUBLIC WATER MAIN.
- 2) A CURB STOP VALVE SHALL BE INSTALLED IN EACH WATER SERVICE WHICH CONNECTS TO A PUBLIC WATER MAIN. THE CURB STOP SHALL BE LOCATED OUTSIDE OF THE CONNECTION COCK AND THE 3"
- 3) IF A WATER METER IS PROVIDED, A CONTROL VALVE SHALL BE INSTALLED WITHIN 5' DEVELOPED LENGTH DOWNSTREAM FROM THE OUTHLET OF THE WATER METER. IF A BYPASS IS PROVIDED, A CONTROL VALVE MUST BE INSTALLED WITHIN THE BYPASS PIPING.
- 4) CONTROL VALVES SHALL BE INSTALLED IN THE SUPPLY PIPING TO EACH WATER HEATER, WATER TREATMENT DEVICE AND IN THE FUTURE SUPPLY TO EACH PLUMBING FIXTURE.
- 5) IF THE DEVELOPED LENGTH OF THE WATER DISTRIBUTION PIPING FROM THE SOURCE OF THE HOT HEATING CABLE SHALL BE PROVIDED.
- 7) IF THE APPROVED FLOW RATE EXCEEDS 30 GPM A CIRCULATION SYSTEM OR SELF-REGULATING VALVE SHALL BE PROVIDED.
- 7) EVERY REEFER VALVE WHICH IS DESIGNED TO DISCHARGE WATER OR STEAM SHALL BE CONNECTED TO A DISCHARGE PIPE.
- 8) ALL NOT WATER SUPPLY SYSTEMS SHALL BE EQUIPPED WITH AUTOMATIC TEMPERATURE CONTROLS.
- 9) PRIVATE WATER MAINS AND WATER SERVICES SHALL NOT BE LESS THAN 3/4" DIAMETER.
- 10) ALL WATER MAINS AND WATER SERVICES SHALL BE INSTALLED AT LEAST 18" DEPTH UNLESS OTHERWISE SPECIFIED.
- 11) PRIVATE WATER MAINS AND WATER SERVICES 2" OR LESS SHALL BE INSTALLED AT LEAST 30" DEPTH UNLESS OTHERWISE SPECIFIED.
- 12) ALL WATER MAINS AND WATER SERVICES SHALL BE INSTALLED AT LEAST 18" ABOVE THE SEWER.
- 13) ALL PLUMBING FIXTURES SHALL BE PROVIDED WITH AN AIR BREAK WITHIN 6" OF A STORM SEWER OR ALL PLUMBING FIXTURES SHALL BE PROVIDED WITH A WATER HAMMER ARRESTOR.
- 14) DRAINAGE PIPES SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/8" PER FOOT. THE PRINK OF THE SYSTEM SHALL BE FILLED WITH WATER AND ALLOWED TO STAND FOR AT LEAST 24 HOURS.
- 15) DRAINAGE PIPES SHALL BE FLUSHED BEFORE BEING USED. THE FLUSHING OF THE PRINK OF THE BUILDING CONSTRUCTION, THE FLUSHING AT EACH WATER OUTLET SHALL CONTINUE FOR AT LEAST TWO FULL FILL AND DRAIN CYCLES.
- 15) PLUMBING CONTRACTOR IS RESPONSIBLE FOR REVENING STATE APPROVAL LETTER AND APPROVAL LETTER AFTER ALL WORKING DRAWINGS ARE SUBMITTED FOR REVIEW AND APPROVAL.
- 16) CONTRACTOR TO PROVIDE BALL VALVE FOR ALL BRANCH LINES IMMEDIATELY UPON THE END OF EACH RUN OF PIPING.
- 18) CONTRACTOR TO PROVIDE BALL VALVE IMMEDIATELY BEFORE ALL EQUIPMENT TERMINATIONS.
- 19) CONTRACTOR TO VERIFY CONNECTION REQUIREMENTS AND LINE SIZES WITH EQUIPMENT SUPPLIER PRIOR TO INSTALLING ANY PIPING.





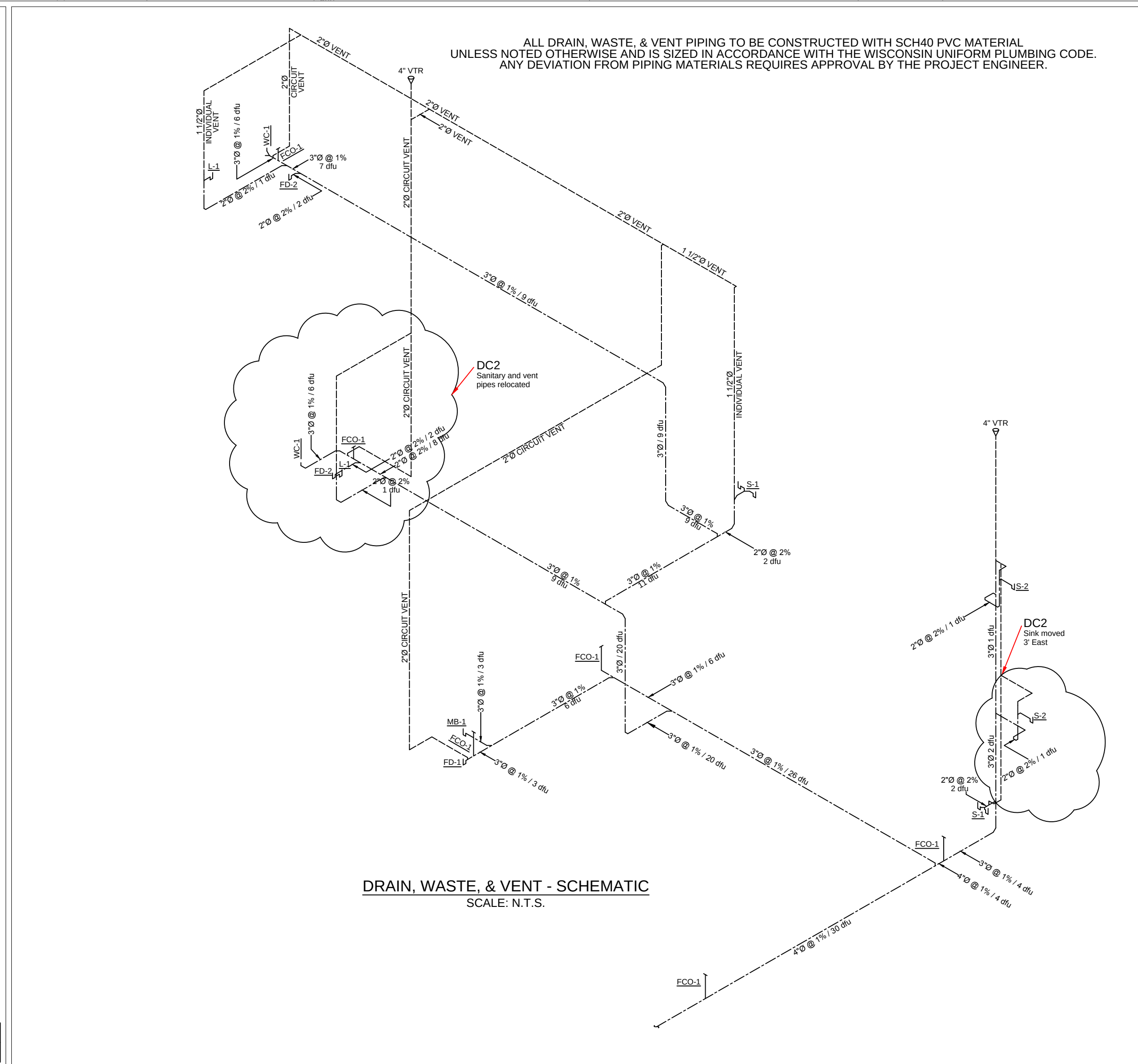
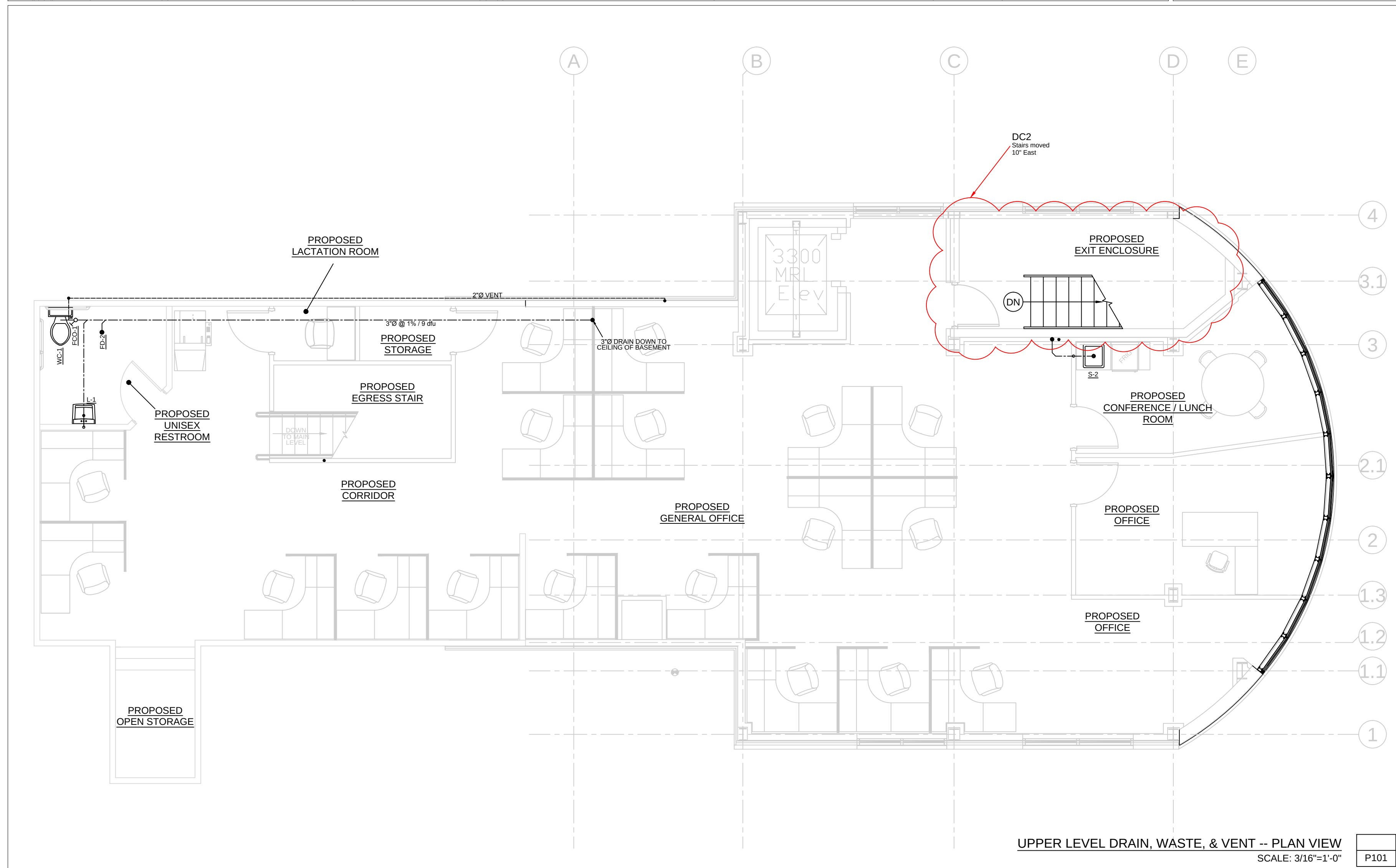
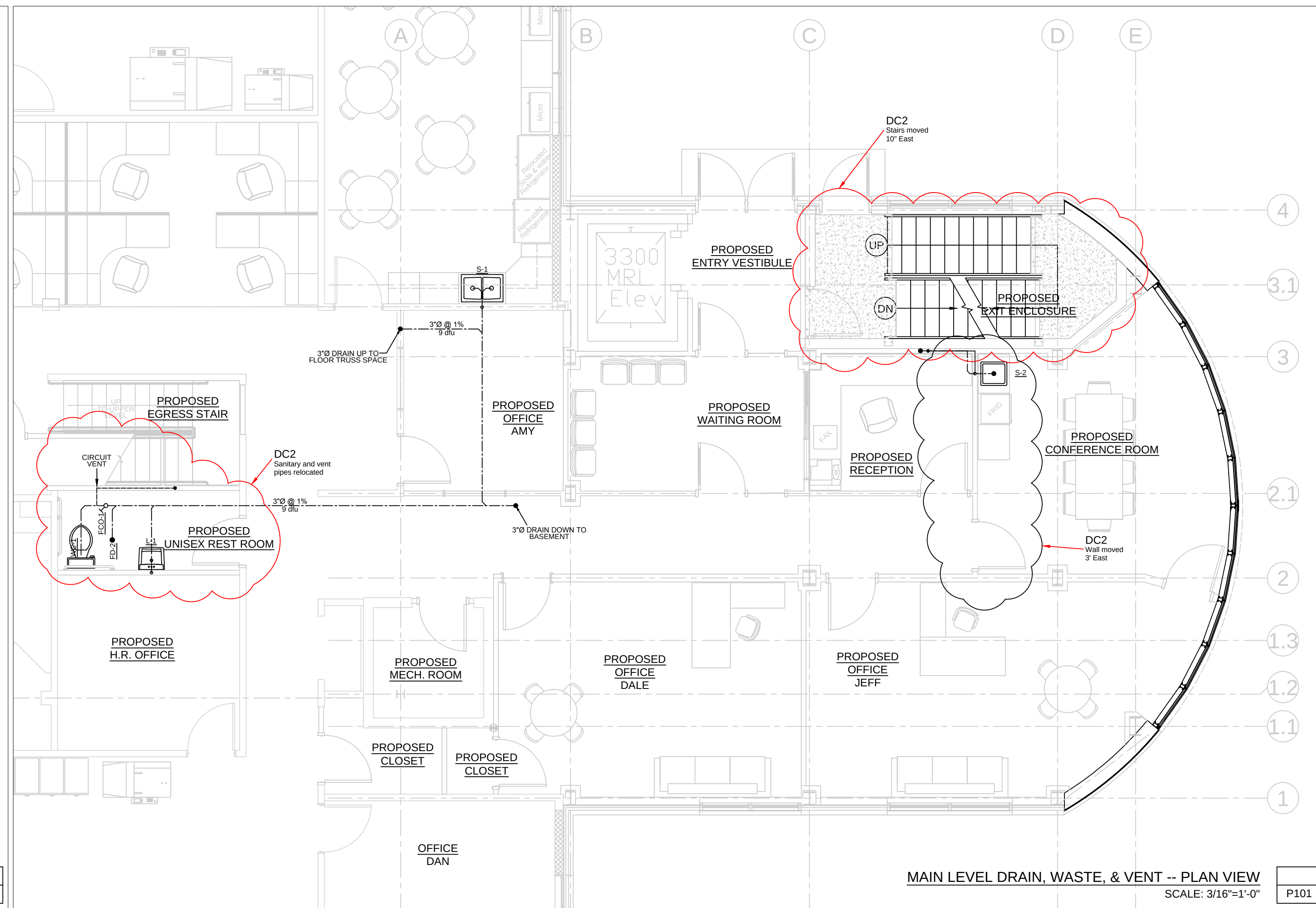
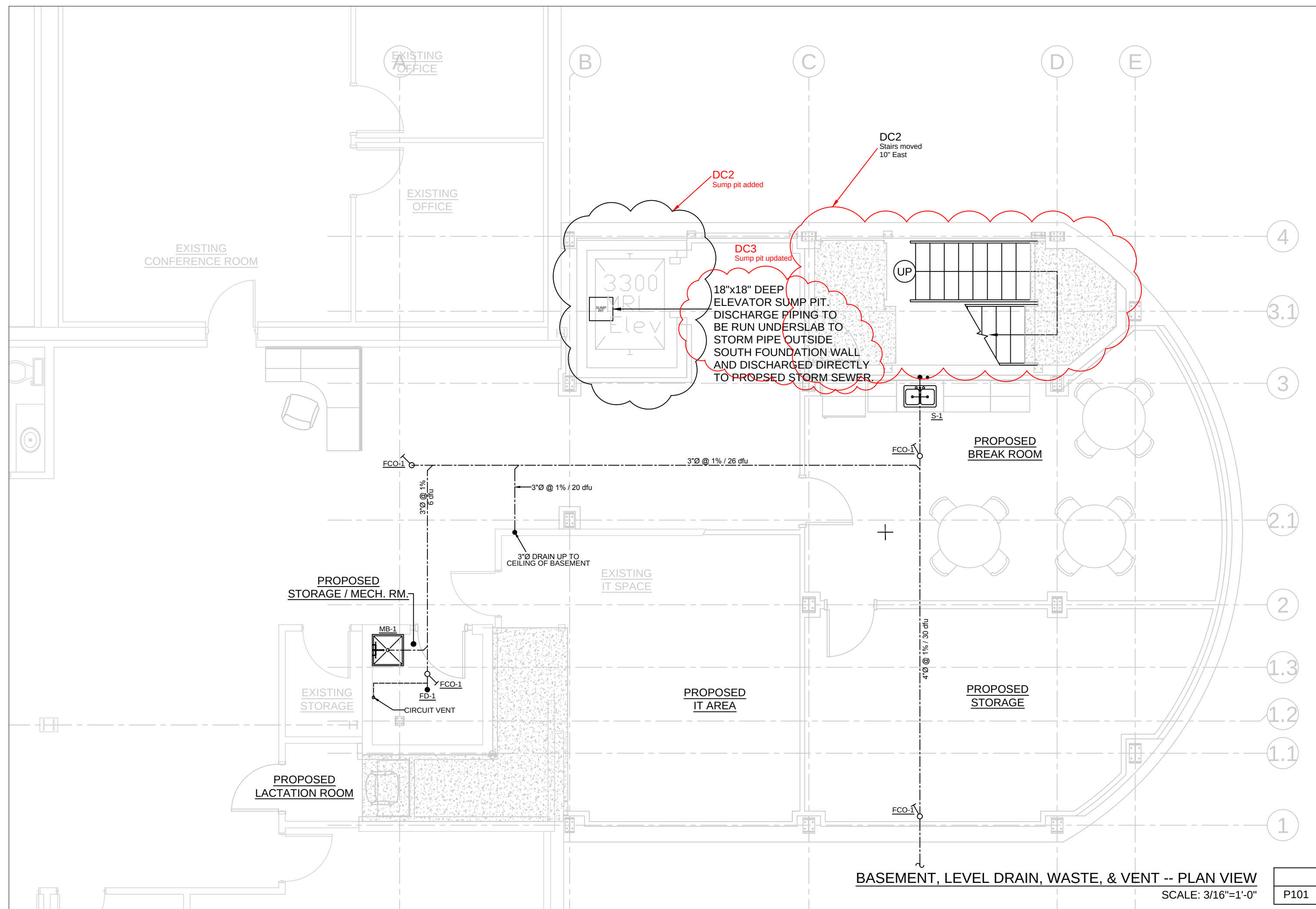
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OFFICE REMODEL / ADDITION

3881 PRISM LANE, KIELER, WI 53812



REVISIONS:	
NO.	DATE
DC2	8/7/14
DC2	8/7/14
DC2	8/8/14
DC2	8/9/14
DC2	8/11/14
DC2	11/6/14

For Construction	
PROJECT NUMBER	D14-041
SHEET NUMBER	AS NOTED
DRAWN BY	J. Baile
DATE ISSUED	August 31, 2015
SHEET NUMBER	P101



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UPPER LEVEL WATER DISTRIBUTION -- PLAN VIEW
SCALE: 3/16"=1'-0"

[illegible]

For Construction

PROJECT NUMBER	D14-041
SHEET SCALE	AS NOTED
DRAWN BY	J.Baillie
DATE ISSUED	August 31, 2015
SHEET NUMBER	P102



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3681 PRISM LANE, KIELEK, WI 53812

For Construction	
PROJECT NUMBER	D14-041
SHEET SCALE	AS NOTED
DRAWN BY	J.Baillie
DATE ISSUED	August 31, 2015
SHEET NUMBER	P103



WATER DISTRIBUTION - SCHEMATIC
SCALE: N.T.S.

HVAC EQUIPMENT REQUIREMENTS	REQUIRED HEATING	REQUIRED COOLING
ZONE 1 - Basement Level	13,197 btuh	1.4 tons - 17,291 btuh
ZONE 2 - Main Level	35,498 btuh	3.4 tons - 40,988 btuh
ZONE 3 - Upper Level	38,898 btuh	3.8 tons - 44,490 btuh
ZONE 4 - Exit Enclosure	2,961 btuh	NOT COOLED

VENTILATION

1.) EVERY OC

- 2) MECHANICAL MEANS SHALL BE PROVIDED DURING THE PERIODS THAT A ROOM OR SPACE IS OCCUPIED.
- 3) OUTDOOR AIR EXHAUST AND INTAKE OPENINGS SHALL BE LOCATED A MINIMUM OF 10' FROM LOT LINES OR BUILDINGS ON SAME LOT.
- 4) EXHAUST AIR SHALL NOT BE DIRECTED onto WALKWAYS.
- 5) MECHANICAL & GRAVITY OUTDOOR AIR INTAKE OPENINGS SHALL BE LOCATED A MINIMUM OF 10' SEPARATELY FROM ANY HAZARDOUS OR NOXIOUS CONTAINMENT SOURCE.
- 6) AIR EXHAUST AND INTAKE OPENINGS THAT TERMINATE OUTDOORS SHALL BE LOCATED AT LEAST 10' FROM EXHAUST GRILLS OR GRILLES.
- 7) NATURAL VENTILATION OF AN OCCUPIED SPACE SHALL BE THROUGH WINDOWS, DOORS, LOUVERS OR OTHER OPENINGS TO THE OUTDOORS AND HAVE A MINIMUM VENTILABLE AREA TO THE OUTDOORS OF 4% WHEN THIS METHOD IS DESIGNED.

- 8.) MECHANICAL VENTILATION SHALL BE PROVIDED BY A METHOD OF SUPPLY AND RETURN AIR THAT APPROXIMATELY EQUAL EACH OTHER WITH OUT CREATING A NEGATIVE PRESSER WHEN THIS METHOD IS DESIGNED.
- 9.) VENTILATION SYSTEMS SHALL BE BALANCED BY AN APPROVED METHOD AND INDICATE THAT THE VENTILATION SYSTEM IS CAPABLE OF SUPPLYING THE AIR FLOW RATES. PROVIDE BALANCING REPORT TO THE PROJECT ENGINEER.

ZONE 1 - Basement Level

ZONE 1 - Basement Level	Forced Air	Furn - 1	Lennox	ML195UH04
ZONE 2 - Main Level	Forced Air	Furn - 2	Lennox	ML195UH09
ZONE 3 - Upper Level	Forced Air	Furn - 3	Lennox	ML195UH09
ZONE 4 - Exit Enclosure	Elec. Wall Heater	EW-H-1	Cadet	CSC102

- ALL SPECIFIED HEATING UNITS ARE FUELED BY NATURAL GAS IN DESIGN. ANY DEVIATION IN FUEL TYPE REQUIRES PROJECT ENGINEER APPROVAL & STATE SUBMITTAL.
- MAKE-UP AIR BTUH CALC: $BTUH = (cfm)(1.08)(70)$
- NATURAL GAS PIPING TO BE INSTALLED BY PLUMBING CONTRACTOR.

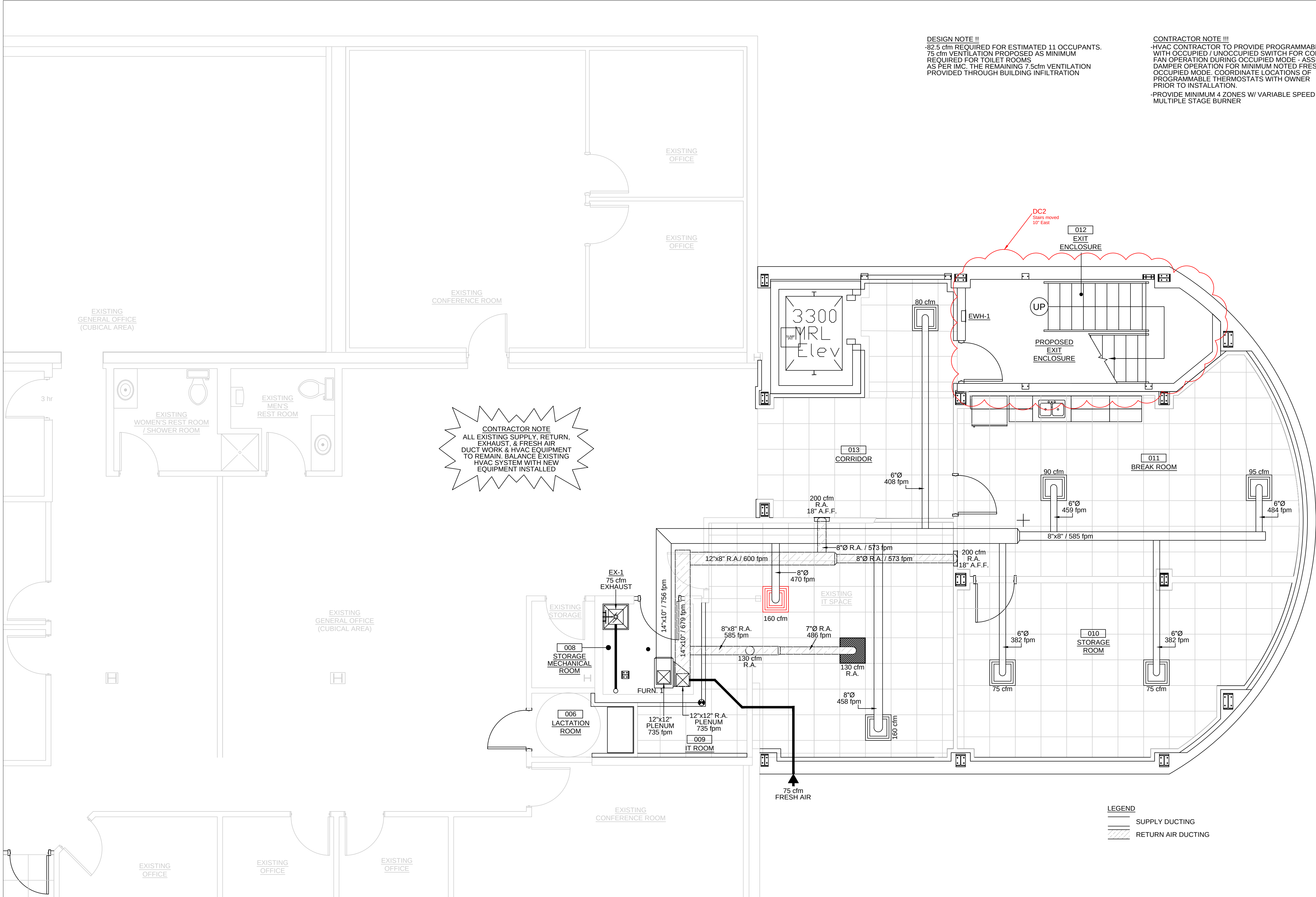
- 10) MECHANICAL VENTILATION SYSTEMS SHALL BE PROVIDED WITH MANUAL OR AUTOMATIC CONTROLS THAT WILL OPERATE SUCH SYSTEMS WHENEVER SPACES ARE OCCUPIED.
- 11) UNINHABITED SPACES, SUCH AS CRAWL SPACES AND ATTICS, SHALL BE PROVIDED WITH NATURAL OR MECHANICAL VENTILATION SYSTEM.
- EXHAUST SYSTEMS SHALL BE PROVIDED AS FOLLOWS:
- 1) THE TERMINATION POINT OF EXHAUST OUTLETS AND DUCTS DISCHARGING TO THE OUTDOORS SHALL BE LOCATED AS SUCH:
 - 10' FROM PROPERTY LINE, 3' FROM EXTERIOR WALLS & ROOFS,
 - 10' FROM OPERABLE OPENINGS INTO BUILDINGS, AND 10' FROM ABOVE ADJOINING GRADE.
 - 10' FOR DUCTS CONVEYING EXPLOSIVE OR FLAMMABLE VAPORS.
 - 5' FROM EXTERIOR WALLS AND ROOFS, AND 10' FROM OPERABLE OPENINGS INTO BUILDINGS, 6' FROM EXTERIOR WALLS & ROOFS
 - 3' FROM COMBUSTIBLE WALLS AND OPERABLE OPENINGS INTO BUILDINGS.
 - 2) THE DIRECTION OF DISCHARGE SHALL BE IN THE DIRECTION OF DISCHARGE, & 10' ABOVE ADJOINING GRADE.
 - 3) AN EXHAUST SYSTEM SHALL BE PROVIDED, MAINTAINED, AND OPERATED AS FOLLOWS:
 - FOR ALL OCCUPANCIES, INCLUDING BUT NOT LIMITED TO, KITCHENS, FORGES, SALAMANDERS, AND OTHER APPLIANCES, EQUIPMENT AND PROCESSES PRODUCE DUST OR PARTICLES THAT FLOAT IN THE AIR, EMIT TOXIC GASES, MISTS, OR SPRAY, GAS OR SMOKE IN QUANTITIES INJURIOUS TO HEALTH OR SAFETY.

- 1) CORRIDORS SHALL NOT BE SERVED AS SUPPLY, RETURN, EXHAUST, RELIEF OR EXTRACT AIRWAYS.
- 2) FLEXIBLE AIR CONNECTIONS SHALL BE LIMITED TO 14'
- 3) ALL AIRWAY LONGITUDINAL JOINTS SHALL BE GASKETED AND CONNECTIONS SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS, MASTIC-PLUS-EMBEDDED FABRIC SYSTEMS OR TAPES
- 4) AIRWAYS SHALL BE SUPPORTED WITH APPROVED HANGERS AT INTERVALS NOT EXCEEDING 10'
- 5) FLEXIBLE DUCTING SHALL BE SUPPORTED AS PER MANUFACTURE RECOMMENDATIONS
- 6) DUCTS CONNECTING TO FURNACES SHALL HAVE A CLEARANCE TO COMBUSTIBLES IN ACCORDANCE WITH THE FURNACE MANUFACTURE'S RECOMMENDATIONS
- 7) DUCT REGISTERS, GRILLES AND DIFFUSERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 8) FLOOR PENETRATIONS SHALL BE PROTECTED BY A MINIMUM 1" FLOOR REQUIRED TO HAVE A FIRE-RESISTANCE RATING OR REQUIRED TO BE FIRE STOP BLOCKED.
- 9) RETURN DETECTORS SHALL BE INSTALLED IN RETURN AIR SYSTEMS WITH A DESIGN CAPACITY GREATER THAN 2,000 cfm. IN THE RETURN AIR DUCT SHALL BE A DETECTOR FOR AIRBORNE PARTICLES, OUTDOOR AIR CONNECTIONS, OR DECONTAMINATION EQUIPMENT.

- 10) ALL DUCTING IN UNCONDITIONED SPACES SHALL BE INSULATED WITH A MINIMUM R-8 INSULATION.
- 11) ALL DUCTWORK SHALL BE UNVENTILATED AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED FABRIC TAPE, OR TAPE (AS SPECIFIED) AND MECHANICAL DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A AND SHALL BE MARKED "181A-P" FOR PRESSURE SENSITIVE TAPE, "181A-M" FOR MASTIC OF MASTIC-PLUS-EMBEDDED FABRIC TAPE, OR "181A-F" FOR TAPE. ALL FLEXIBLE AIR DUCTS AND FLEXIBLE AIR CONNECTORS SHALL COMPLY WITH UL181B AND SHALL BE MARKED "181B-F" FOR PRESSURE SENSITIVE TAPE OR "181B-M" FOR MASTIC OF MASTIC-PLUS-EMBEDDED FABRIC TAPE. DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. MECHANICAL FASTENERS FOR USE WITH FLEXIBLE AIR DUCTS SHALL BE LISTED TO UL181B AND SHALL BE MARKED "181B-C" UNLESS DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY DUCT.
- 12) EACH REGISTER GRILLE, OR DIFFUSER SHALL BE SUPPLIED WITH VOLUME DAMPERS FOR AIR SUPPLY ADJUSTMENTS.
- 13) ALL DUCTING BETWEEN SUSPENDED CEILING AND THE DRYWALL LID SHALL BE INSULATED WITH A MINIMUM R-8 INSULATION.
- 14) DUCT WEIGHT IS TO BE LIMITED TO 8" DUE TO FINISHED CEILING REQUIREMENTS.

- 1.) CONTRACTOR TO PROVIDE PROGRAMMABLE THERMOSTAT AT LOCATION VERIFY BY OWNER.
- 2.) CONTRACTOR TO PROVIDE CONTROL WIRING AND CONTROLS (SUMMER, WINTER OFF SWITCH) FROM MAKE-UP AIR TO EXHAUST AS REQUIRED BY MECHANICAL CODE.
- 3.) CONTRACTOR TO SUPPLY, SIZE & INSTALL GAS PIPING TO ALL HVAC UNITS AS REQUIRED.

EQ.	VENTILATION					MAKE UP AIR					
	EXHAUST FAN NO.	MANUFACTURE	MODEL NO.	REQUIRED CFM	ELEC. REQ.	UNIT	MANUFACTURE	MODEL NO.	CFM	HEATING (BTUH)	ELEC. REQ.
az-1ph	EX-1	Broan	HD80	75	110v					FRESH AIR THROUGH FURN - 1	
az-1ph	EX-2	Broan	HD80	75	110v					FRESH AIR THROUGH FURN - 2	
az-1ph	EX-3	Broan	HD80	75	110v					FRESH AIR THROUGH FURN - 3	
	NONE REQUIRED - UNOCCUPIED SPACE					NONE REQUIRED - UNOCCUPIED SPACE					



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[illegible]

For Construction

PROJECT NUMBER	D14-041
SHEET SCALE	AS NOTED
DRAWN BY	J.Baillie
DATE ISSUED	August 31, 2015
SHEET NUMBER	M101

HVAC EQUIPMENT REQUIREMENTS	REQUIRED HEATING	REQUIRED COOLING
ZONE 1 - Basement Level	13,197 btuh	1.4 tons - 17,291 btuh
ZONE 2 - Main Level	35,498 btuh	3.4 tons - 40,988 btuh
ZONE 3 - Upper Level	38,898 btuh	3.8 tons - 44,490 btuh
ZONE 4 - Exit Enclosure	2,961 btuh	NOT COOLED

VENTILATION

- 1) EVERY OCCUPIED SPACE SHALL BE VENTILATED BY NATURAL MEANS, OR MECHANICAL MEANS.
- 2) VENTILATION SHALL BE PROVIDED DURING THE PERIODS THAT A ROOM OR SPACE IS OCCUPIED.
- 3) OUTDOOR AIR EXHAUST AND INTAKE OPENINGS SHALL BE LOCATED AT LEAST 10 FEET FROM LOT LINES OF BUILDINGS ON SAME LOT
- 4) EXHAUST AIR SHALL NOT BE DIRECTED ONTO WALKWAYS.
- 5) MECHANICAL & GRAVITY OUTDOOR AIR INTAKE OPENINGS SHALL BE LOCATED AT A MINIMUM OF 10 HORIZONTAL FEET FROM ANY HAZARDOUS OR NOXIOUS CONTAINMENT SOURCE.
- 6) AIR EXHAUST AND INTAKE OPENINGS THAT TERMINATE OUTDOORS SHALL BE LOCATED AT LEAST 10 FEET FROM ANY BALCONY, WALKWAYS OR RAILINGS.
- 7) NATURAL VENTILATION OF AN OCCUPIED SPACE SHALL BE THROUGH WINDOWS, DOORS, LOUVERS OR OTHER OPENINGS TO THE OUTDOORS AND HAVE A MINIMUM PERMEABLE AREA TO THE OUTDOORS OF 4% WHEN THIS METHOD IS DESIGNED.
- 8) MECHANICAL VENTILATION SHALL BE PROVIDED BY A METHOD OF SUPPLY AND RETURN AIR THAT DOES NOT REQUIRE EACH FLOOR OR ZONE TO CREATE A NEGATIVE PRESSURE WHEN THIS METHOD IS DESIGNED.
- 9) VENTILATION SYSTEMS SHALL BE BALANCED BY AN APPROVED METHOD AND THE BALANCING REPORT SHALL BE SUBMITTED TO THE PROJECT ENGINEER. THE AIR FLOW RATES, PROVIDE BALANCING REPORT TO THE PROJECT ENGINEER

10.) MECHANICAL VENTILATION SYSTEMS SHALL BE PROVIDED WITH MANUAL OR AUTOMATIC CONTROLS THAT WILL OPERATE SUCH SYSTEMS WHENEVER THE SYSTEM IS REQUIRED TO OPERATE.

11.) UNINHABITED SPACES, SUCH AS CRAWL SPACES AND ATTICS, SHALL BE PROVIDED WITH NATURAL OR MECHANICAL VENTILATION SYSTEM.

12.) THE TERMINATION POINT OF EXHAUST OUTLETS AND DUCTS DISCHARGING TO THE OUTDOORS SHALL BE LOCATED AS SUCH:

- 10' FROM PROPERTY LINE, 3' FROM EXTERIOR WALLS & ROOFS,
- 10' SPACES OR FROM OPENINGS INTO BUILDINGS, AND 10' ABOVE ADJOINING GRADE.
- FOR DUCTS CONVEYING EXPLOSIVE OR FLAMMABLE VAPORS - FUMES OR DUSTS, 20' FROM EXTERIOR WALLS & ROOFS, 10' FROM OPENINGS INTO BUILDINGS, 6' FROM EXTERIOR WALLS & ROOFS
- 30' FROM COMBUSTIBLE WALLS AND OPERABLE OPENINGS INTO BUILDINGS WITHIN THE DIRECTION OF DISCHARGE, & 10' ABOVE ADJOINING GRADE.

2.) AN EXHAUST SYSTEM SHALL BE PROVIDED, MAINTAINED, AND OPERATED FOR ALL ACTIVITIES OCCURRING IN THE WORK AREA, SUCH AS CUTTING, FORGES, SALAMANDERS, AND OTHER APPLIANCES, EQUIPMENT AND PROCESSES PRODUCE DUST OR PARTICLES THAT FLOAT IN THE AIR, EMIT TOXIC GASES, MISTS, OR SPRAY, GAS OR SMOKE IN QUANTITIES INJURIOUS TO HEALTH OR SAFETY.

DUCT SYSTEMS

1. CORRIDORS SHALL NOT SERVE AS SUPPLY, RETURN, EXHAUST, RELIEF OR VENTILATION AIR DUCTS.
2. FLEXIBLE AIR CONNECTORS SHALL BE LIMITED TO 14'.
3. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, OR UL-181A PLUG-EMBEDDED FABRIC SYSTEMS.
4. DUCTING SHALL BE SUPPORTED WITH APPROVED HANGERS AT INTERVALS NOT EXCEEDING 10'.
5. FLEXIBLE DUCTING SHALL BE SUPPORTED AS PER MANUFACTURER RECOMMENDATIONS.
6. DUCTS CONNECTING TO FURNACES SHALL HAVE A CLEARANCE TO COMBUSTIBLES IN ACCORDANCE WITH THE FURNACE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
7. DUCT REGISTERS, GRILLES AND DIFFUSERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
8. DUCT COVERINGS (INSULATION) SHALL NOT PENETRATE A WALL OR FLOOR REQUIRED TO HAVE A FIRE-RESISTANCE RATING OR REQUIRED TO BE FIRE-STOPPED.
9. SMOKE DETECTORS SHALL BE INSTALLED IN RETURN AIR SYSTEMS WITH A DESIGN CAPACITY GREATER THAN 2,000 cfm. IN THE RETURN AIR DUCT OF AN AIR HANDLING UNIT, OR IN THE EXHAUST, OUTDOOR AIR CONNECTIONS, OR DECONTAMINATION EQUIPMENT.

- 10) ALL DUCTING IN UNCONDITIONED SPACES SHALL BE INSULATED WITH A MINIMUM R-5 INSULATION.
- 11) ALL DUCTS, DUCT FITTINGS, AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK, SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED FABRIC (REINFORCED MASTIC), OR MECHANICAL FASTENERS. ALL DUCTWORK SHALL BE MARKED AND LABELED IN ACCORDANCE WITH UL 181A AND SHALL BE LISTED "181A-P" FOR PRESSURE SENSITIVE TAPE, "181A-M" FOR MASTIC OR MECHANICAL FASTENERS, AND "181A-F" FOR FLEXIBLE AIR DUCTS. FLEXIBLE AIR DUCTS AND FLEXIBLE AIR CONNECTORS SHALL COMPLY WITH UL181B AND SHALL BE MARKED "181B-FP" FOR PRESSURE SENSITIVE TAPE OR "181B-M" FOR MECHANICAL FASTENERS. MECHANICAL FASTENERS FOR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. MECHANICAL FASTENERS FOR USE WITH FLEXIBLE AIR DUCTS SHALL BE MARKED "181B-C" UNLESS DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY DUCT.
- 12) EACH REGISTER GRILLE, OR DIFFUSER SHALL BE SUPPLIED WITH VOLUME DAMPERS FOR AIR SUPPLY ADJUSTMENTS.
- 13) ALL DUCTING BETWEEN SUSPENDED CEILING AND THE DRYWALL LID SHALL BE INSULATED WITH A MINIMUM R-5 INSULATION.
- 14) DUCT HEIGHT IS TO BE LIMITED TO 3" DUE TO FINISHED CEILING REQUIREMENTS.

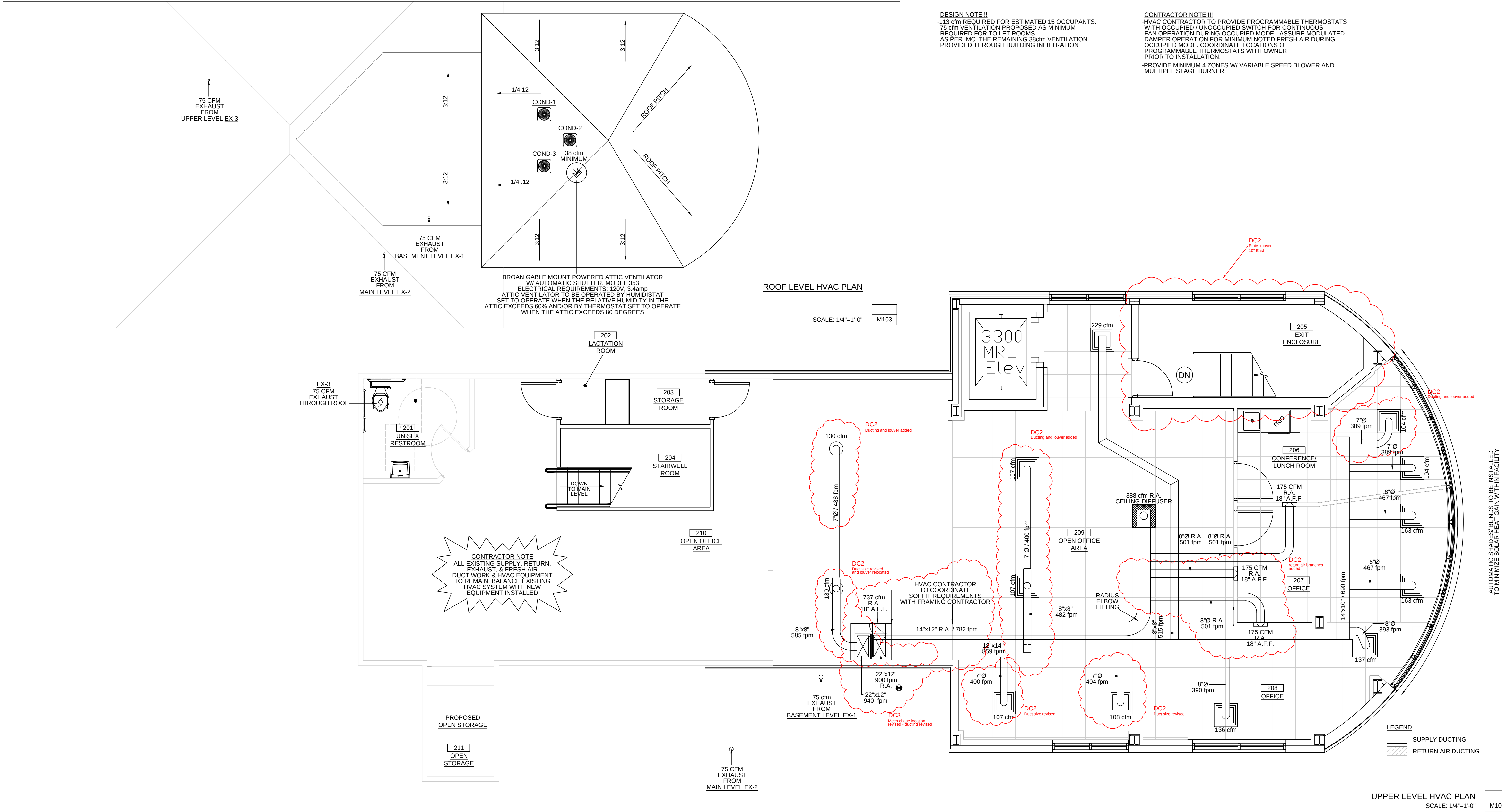
MISC. NOTES

- 1) CONTRACTOR TO PROVIDE PROGRAMMABLE THERMOSTAT AT LOCATION VERIFY BY OWNER.
- 2) CONTRACTOR TO PROVIDE CONTROL WIRING AND CONTROLS (SUMMER, WINTER OFF SWITCH) FROM MAKE-UP AIR TO EXHAUST AS REQUIRED BY MECHANICAL CODE.
- 3) CONTRACTOR TO SUPPLY, SIZE & INSTALL GAS PIPING TO ALL HVAC UNITS AS REQUIRED.

HVAC EQUIPMENT SCHEDULE	HEATING								COOLING						VENTILATION				MAKE UP AIR								
	SYSTEM	UNIT	MANUFACTURE	MODEL NO.	EXTERNAL S.P. IN. W.G.	CFM	HEATING (BTUH)	ELEC. REQ.	SYSTEM	UNIT	MANUFACTURE	MODEL NO.	COOLING (TONS)	ECONOMIZER REQUIRED	ERV REQUIRED	ELEC. REQ.	EXHAUST FAN NO.	MANUFACTURE	MODEL NO.	REQUIRED CFM	ELEC. REQ.	UNIT	MANUFACTURE	MODEL NO.	CFM	HEATING (BTUH)	ELEC. REQ.
ZONE 1 - Basement Level	Forced Air	Furn - 1	Lennox	ML195UH045XP24B	0.9	735	41,000	120v-60hz-1ph	Forced Air	Cond - 1	Lennox	13ACX-024	2	Yes	No	208/230v-60hz-1ph	EX-1	Braan	HD80	75	110v						FRESH AIR THROUGH FURN - 1
ZONE 2 - Main Level	Forced Air	Furn - 2	Lennox	ML195UH090XP60C	0.9	1725	85,000	120v-60hz-1ph	Forced Air	Cond - 2	Lennox	13ACX-048	4	Yes	No	208/230v-60hz-1ph	EX-2	Braan	HD80	75	110v						FRESH AIR THROUGH FURN - 2
ZONE 3 - Upper Level	Forced Air	Furn - 3	Lennox	ML195UH090XP60C	0.9	1725	85,000	120v-60hz-1ph	Forced Air	Cond - 3	Lennox	XC21-060	5	Yes	No	208/230v-60hz-1ph	EX-3	Braan	HD80	75	110v						FRESH AIR THROUGH FURN - 3
ZONE 4 - Exit Enclosure	Elec. Wall Heater	EWH-1	Cadet	CSC102TW	N/A	N/A	2,560	208v																			
													NOT COOLED					NONE REQUIRED - UNOCCUPIED SPACE								NONE REQUIRED - UNOCCUPIED SPACE	

NOTES:

- ALL SPECIFIED HEATING UNITS ARE FUELED BY NATURAL GAS IN DESIGN. ANY DEVIATION IN FUEL TYPE REQUIRES PROJECT ENGINEER APPROVAL & STATE SUBMITTAL.
- MAKE-UP AIR BTUH CALC: BTUH = (cfm)(1.08)(70)
- NATURAL GAS PIPING TO BE INSTALLED BY PLUMBING CONTRACTOR.



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REVISIONS:		
NO.	DATE	DESCRIPTION
DC2	8/8/14	Stairs moved 10" East
DC3	11/4/14	Mech chase location revised - ducting revised

For Construction

PROJECT NUMBER	D14-041
SHEET SCALE	AS NOTED
DRAWN BY	J.Baillie
DATE ISSUED	August 31, 2015
SHEET NUMBER	M103