

# BIG LOTS!

## & SHOPS

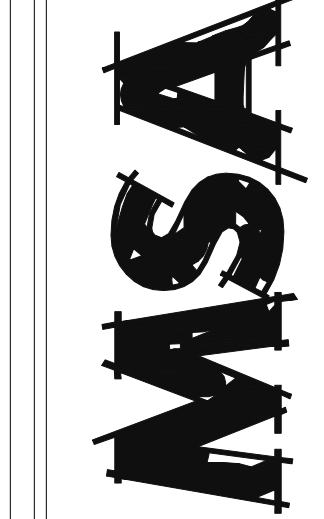
### SCHEDULE OF DRAWINGS

TITLE	ARCHITECTURAL DRAWINGS	STRUCTURAL DRAWINGS	PLUMBING DRAWINGS	HVAC DRAWINGS	ELECTRICAL DRAWINGS
T - 001 DRAWING LIST / CODE SUMMARY	A - 101 FIRST FLOOR PLAN	BY OTHERS	P - 101 FIRST FLOOR SANITARY WASTE PLAN	M - 101 FIRST FLOOR HVAC PLAN	E - 101 FIRST FLOOR POWER PLAN
T - 101 LIFE SAFETY PLAN	A - 102 RETAIL FIXTURES PLAN		P - 102 FIRST FLOOR POTABLE WATER PLAN	M - 201 SCHEDULES AND DETAILS	E - 102 FIRST FLOOR LIGHTING PLAN
	A - 103 CEILING PLAN				E - 201 PANEL SCHEDULES
	A - 104 ROOF PLAN				E - 301 ELECTRICAL NOTES
	A - 201 ELEVATIONS				E - 302 EMS NOTES
	A - 202 ELEVATIONS				E - 303 EMS DIAGRAMS
	A - 301 FINISH SCHEDULE / INTERIOR PARTITIONS				E - 304 EMS LIGHTING CONTROLS
	A - 401 DETAILS				E - 401 SITE LIGHTING
	A - 501 WALL SECTIONS				F - 101 FIRE ALARM PLAN AND DETAILS
	A - 502 WALL SECTIONS				
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	A - 506 WALL SECTIONS				
	A - 507 WALL SECTIONS				
	A - 508 WALL SECTIONS				

No.	Date	Description



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 415 Grassmill Court  
 Winterville, North Carolina 28090  
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BIG LOTS! & SHOPS  
 CHESTERFIELD COUNTY, VIRGINIA

Date: APRIL 10, 2013  
 Drawing No. T-001

#### BUILDING CODE SUMMARY

NAME OF PROJECT:	BIG LOTS AND SHOPS
ADDRESS:	LOT 26950 & 2690 WEIR PLACE CHESTERFIELD COUNTY, VIRGINIA
PROPOSED USE:	RETAIL SALES
OWNER OR AUTHORIZED AGENT:	BEN BRYAN PHONE # (704) 802-4235
OWNED BY:	KINSTON IOTC, LLC PRIVATELY OWNED
CODE ENFORCEMENT JURISDICTION:	CHESTERFIELD COUNTY, VIRGINIA

#### DESIGNER OF RECORD:

LEAD DESIGN PROFESSIONAL:	MARK SMITH ARCHITECT	DESIGNER NAME:	MARK J. SMITH, AIA	LICENSE #:	0401005709	TELEPHONE #:	252-711-4215
Architectural:	BY OTHERS	DESIGNER NAME: <td>MARK J. SMITH, AIA</td> <td>LICENSE #: <td>0401005709</td> <td>TELEPHONE #: <td>252-711-4215</td> </td></td>	MARK J. SMITH, AIA	LICENSE #: <td>0401005709</td> <td>TELEPHONE #: <td>252-711-4215</td> </td>	0401005709	TELEPHONE #: <td>252-711-4215</td>	252-711-4215
Civil:	BY OTHERS	DESIGNER NAME: <td>MARK J. SMITH, AIA</td> <td>LICENSE #: <td>0401005709</td> <td>TELEPHONE #: <td>252-711-4215</td> </td></td>	MARK J. SMITH, AIA	LICENSE #: <td>0401005709</td> <td>TELEPHONE #: <td>252-711-4215</td> </td>	0401005709	TELEPHONE #: <td>252-711-4215</td>	252-711-4215
Electrical:	ENGINEERING SOURCE	DESIGNER NAME: <td>D. WILSON POU, PE</td> <td>LICENSE #: <td>0402037459</td> <td>TELEPHONE #: <td>252-439-0338</td> </td></td>	D. WILSON POU, PE	LICENSE #: <td>0402037459</td> <td>TELEPHONE #: <td>252-439-0338</td> </td>	0402037459	TELEPHONE #: <td>252-439-0338</td>	252-439-0338
Fire Alarm:	ENGINEERING SOURCE	DESIGNER NAME: <td>D. WILSON POU, PE</td> <td>LICENSE #: <td>0402037459</td> <td>TELEPHONE #: <td>252-439-0338</td> </td></td>	D. WILSON POU, PE	LICENSE #: <td>0402037459</td> <td>TELEPHONE #: <td>252-439-0338</td> </td>	0402037459	TELEPHONE #: <td>252-439-0338</td>	252-439-0338
Plumbing:	ENGINEERING SOURCE	DESIGNER NAME: <td>D. WILSON POU, PE</td> <td>LICENSE #: <td>0402037459</td> <td>TELEPHONE #: <td>252-439-0338</td> </td></td>	D. WILSON POU, PE	LICENSE #: <td>0402037459</td> <td>TELEPHONE #: <td>252-439-0338</td> </td>	0402037459	TELEPHONE #: <td>252-439-0338</td>	252-439-0338
Mechanical:	ENGINEERING SOURCE	DESIGNER NAME: <td>D. WILSON POU, PE</td> <td>LICENSE #: <td>0402037459</td> <td>TELEPHONE #: <td>252-439-0338</td> </td></td>	D. WILSON POU, PE	LICENSE #: <td>0402037459</td> <td>TELEPHONE #: <td>252-439-0338</td> </td>	0402037459	TELEPHONE #: <td>252-439-0338</td>	252-439-0338
Sprinkler-Standpipe:	ENGINEERING SOURCE	DESIGNER NAME: <td>D. WILSON POU, PE</td> <td>LICENSE #: <td>0402037459</td> <td>TELEPHONE #: <td>252-439-0338</td> </td></td>	D. WILSON POU, PE	LICENSE #: <td>0402037459</td> <td>TELEPHONE #: <td>252-439-0338</td> </td>	0402037459	TELEPHONE #: <td>252-439-0338</td>	252-439-0338
Structural:	STEVE L. KNIGHT, PE	DESIGNER NAME: <td>STEVE L. KNIGHT, PE</td> <td>LICENSE #: <td>0402013932</td> <td>TELEPHONE #: <td>704-878-2906</td> </td></td>	STEVE L. KNIGHT, PE	LICENSE #: <td>0402013932</td> <td>TELEPHONE #: <td>704-878-2906</td> </td>	0402013932	TELEPHONE #: <td>704-878-2906</td>	704-878-2906
Retaining Walls-6' High:		DESIGNER NAME: <td> </td> <td>LICENSE #: <td> </td> <td>TELEPHONE #: <td> </td> </td></td>		LICENSE #: <td> </td> <td>TELEPHONE #: <td> </td> </td>		TELEPHONE #: <td> </td>	
Other:		DESIGNER NAME: <td> </td> <td>LICENSE #: <td> </td> <td>TELEPHONE #: <td> </td> </td></td>		LICENSE #: <td> </td> <td>TELEPHONE #: <td> </td> </td>		TELEPHONE #: <td> </td>	

PRE-ENGINEERED BUILDING DESIGN: Elite Structures, 303 Old Quilman Road, PO Box 207, Adel, GA 31620  
 229-896-7559, 229-896-7560(fax), contact John Gaeto 704-913-5050, jgaeto@elite-structures.com

#### BUILDING DATA:

YEAR EDITION OF CODE:	2009 VIRGINIA BUILDING CODE
CONSTRUCTION TYPE:	NEW CONSTRUCTION
Sprinklers:	MIXED CONSTRUCTION: NO BIG LOTS YES LEASE SPACE NO
Standpipes:	NO
Fire District:	NO
Building Height:	FEET INCHES 22'-0" # OF STORIES: 1
Mezzanine:	NO
High Rise:	NO Central Reference Sheet # (if provided):
Gross Building Area:	EXISTING (SQ FT) NEW (SQ FT) SUB-TOTAL (SQ FT)
GROSS AREA - BIG LOTS	2nd Floor - SQ FT 29,954 SQ FT 29,954 SQ FT
1st Floor - SQ FT 29,954 SQ FT 29,954 SQ FT	
TOTAL - SQ FT 59,908 SQ FT 59,908 SQ FT	
GROSS AREA - LEASE SHOPS	2nd Floor - SQ FT 7,426 SQ FT 7,426 SQ FT
1st Floor - SQ FT 7,426 SQ FT 7,426 SQ FT	
TOTAL - SQ FT 14,852 SQ FT 14,852 SQ FT	

#### ALLOWABLE AREA:

PRIMARY OCCUPANCY:	MERCANTILE M
SECONDARY OCCUPANCY:	STORAGE S-1 RETAIL STOCKROOM
SPECIAL OCCUPANCY:	NA
MIXED OCCUPANCY:	YES SEPARATION: NONE REQ'D EXCEPTION: 508.4
Non-Separated Mixed Occupancy (302.3.2) The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.	
X Separated Mixed Occupancy (302.3.3) - See below for area calculations For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1. Actual Area of Occupancy A + Actual Area of Occupancy B = ≤ 1.00 Allowable Area of Occupancy A + Allowable Area of Occupancy B = ≤ 1.00	

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 503 AREA	(C) AREA FOR OPEN SPACE INCREASE*	(D) AREA FOR SPRINKLER INCREASE*	(E) ALLOWABLE AREA OR UNLIMITED*	(F) MAXIMUM BUILDING AREA*
BIG LOTS	MERC M	29,954	12,500	5,425	37,500	55,425	55,425
LEASE SPACE	MERC M OR BUS B	7,426	12,500	23,000	12,500	12,500	12,500

Open space area increases from Section 506.2 are computed thus:  
 a. Perimeter which fronts a public way or open space having 20 feet minimum width = 50'  
 b. Total Building Perimeter = 735  
 c. Ratio (R/P) = 0.068  
 d. W = Minimum width of public way = 30'  
 e. Percent of frontage increase = 100(P/P-0.25) x W/30 = ((735 / 503) - 25) / 30 = 43.4% 12,500 x 43.4% = 5,425 SF  
 The sprinkler increase per Section 508.3.3 is as follows:  
 a. Multi-story building I = 200 percent  
 b. Single story building I = 300 percent  
 Unlimited area applicable under conditions Sections Group B, F, M, S, A-4 (507.1, 507.2, 507.3, 507.5; Group A motion picture (507.8); Malls (402.6); and H-2 aircraft paint hangers (507.6).  
 Maximum Building Area = total number of stories in the building x E but not greater than 3 x E.  
 The maximum area of parking garages must comply with 406.3.5. The maximum area of air traffic control towers must comply with 412.1.2.

#### ALLOWABLE HEIGHT:

Type of Construction	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	REFERENCE
Building Height in Feet	Type: II B Feet: 55 FT	Feet+HH-20*	Type: II B	-
Building Height in Stories	Stories: 2	Stories+1*	Stories: 1 STORY	-

#### FIRE PROTECTION REQUIREMENTS:

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	PROVIDED W*	REDUCTION	DETAIL# AND SHEET#	DETAIL# FOR RATED ASSEMBLY	DESIGN# FOR RATED PENETRATION	DESIGN# FOR RATED JOINTS
Structural frame, including columns, girders, trusses	-	0	-	-	-	-	-	-
Bearing walls	-	0	-	-	-	-	-	-
Exterior:	-	0	-	-	-	-	-	-
North	0	-	-	-	-	-	-	-
East	0	-	-	-	-	-	-	-
West	0	-	-	-	-	-	-	-
South	0	-	-	-	-	-	-	-
Interior	0	-	-	-	-	-	-	-
Nonbearing walls and partitions	-	0	-	-	-	-	-	-
Exterior:	-	2 HR	-	-	A-508.2	U.L. Des U-411 & U-806	-	-
North	0'	-	-	-	-	-	-	-
East	> 10'	0	-	-	A-501.1	-	-	-
West	> 10'	0	-	-	A-501.2	-	-	-
South	> 10'	0	-	-	A-502.1	-	-	-
Interior	0	-	-	-	-	-	-	-
Floor construction including supporting beams and joists	-	0	-	-	-	-	-	-
Roof construction including supporting beams and joists	-	0	-	-	-	-	-	-
Stair Exit	-	-	-	-	-	-	-	-
Shafts-Other	-	-	-	-	-	-	-	-
Corridor Separation	-	-	-	-	-	-	-	-
Occupancy Separation	-	-	-	-	-	-	-	-
Party/Fire Wall Separation	-	-	-	-	-	-	-	-
Tenant Separation - Floor	-	-	-	-	-	-	-	-
Tenant Separation - Wall	-	-	-	-	-	-	-	-
Incidental Use - Storage / Laundry	-	-	-	-	-	-	-	-

\*Indicate section number permitting reduction

#### LIFE SAFETY SYSTEM REQUIREMENTS:

Emergency Lighting:	YES
Exit Signs:	YES
Fire Alarm:	YES
Smoke Detection Systems:	YES
Panic Hardware:	YES

#### EXIT REQUIREMENTS NUMBER AND ARRANGEMENT OF EXITS:

FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM REQUIRED	NUMBER OF EXITS SHOWN ON PLANS	TRAVEL DISTANCE ALLOWABLE TRAVEL DISTANCE (TABLE 1004.2.4)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	ARRANGEMENT MEANS OF EGRESS (SECTION 1004.1)
SALES FLOOR	2	3	250 FT	MAX 228 FT	72 FT 210 FT
STOCKROOM	2	2	250 FT	MAX 208 FT	56 FT 115 FT

\*Corridor dead ends (Section 1004.3.2.3) \*Common Path of Travel (Section 1004.2.5)  
 \*Single exits (Table 1005.2.2) \*Exterior Egress Balcony Increase (Section 1004.2.4.2)

#### EXIT WIDTH:

USE GROUP OR SPACE DESCRIPTION	(a) AREA sq.ft.	(b) PER OCCUPANT (TABLE 1004.1.2)	(c) EGRESS WIDTH PER OCCUPANT		(d) EXIT WIDTH (ft) MIN		
			STAIR	LEVEL	STAIR	LEVEL	STAIR
SALES FLOOR	22,761	30	0.3'	0.2'	151.0'	272'	272'
STOCKROOM	6,295	300	0.3'	0.2'	4.2'	69"	69"
EMP LOUNGE	307	15	0.3'	0.2'	4.2'	34"	34"
MGR OFFICES	364	100	4	0.3'	0.2'	1"	34"
LEASE BLDG	7,426	30	246	0.3'	0.2'	50.0'	44"

\*See Table 1003.2.2.2 to determine whether net or gross area is applicable.  
 \*See definition "Area, Gross" and "Area, Net" (Section 1002)  
 \*Minimum stairway width (Section 1003.3.3); min. corridor width (Section 1004.3.2.2); min. door width (Section 1003.3.1)  
 \*Minimum width of exit passageway (Section 1005.3.3)  
 \*See Section 1003.2.2.7 for converging exits.  
 \*The loss of one means of egress shall not reduce the available capacity to less than 50 percent of the total required (Section 1003.2.3)  
 \*Assembly occupancies (Section 1008)

#### STRUCTURAL DESIGN: SEE STRUCTURAL DESIGN BY OTHERS

DESIGN LOADS:	Use Category: II
Important Factors:	Wind (1, ) Snow (1, ) Seismic (1, )
Live Loads:	Roof _____ psf Floor _____ psf
Snow Load:	_____ psf
Wind Load:	Basic Wind Speed _____ mph (ASCE-7-98) Exposure Category _____ Wind Base Shears (for MWFRS) Vx= _____ Vy= _____
SEISMIC DESIGN CATEGORY A:	Compliance with Section 1616.4 only? YES
SEISMIC DESIGN CATEGORY B, C, D:	Provide the following Seismic Design Parameters: Seismic Use Group _____ Spectral Response Acceleration _____ Site Classification _____ Basic structural system _____ Seismic base shear Vx= _____ Vy= _____ Analysis Procedure _____ Architectural, Mechanical, Components anchored? _____
LATERAL DESIGN CONTROL:	Earthquake _____ Wind _____
SOIL BEARING CAPACITIES:	Field Test (provide copy of test report) Presumptive Bearing capacity _____ 2,000 psf Pile size, type, and capacity _____

#### SEE PLUMBING SHEETS FOR PLUMBING FIXTURE REQUIREMENTS:

OCCUPANCY	WATERCLOSETS		URINALS		LAVATORIES		SHOWERS/ TUBS	DRINKING FOUNTAINS	
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	REGULAR	ACCESSIBLE	ACCESSIBLE
-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-

#### ACCESSIBLE PARKING: SEE SITE PLAN BY OTHERS

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	PROVIDED	# OF ACCESSIBLE SPACES PROVIDED	REGULAR WITH 8' ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-

#### SPECIAL APPROVALS:

Special approval: (Local Jurisdiction, Department of Insurance, SBCCI, ICC, etc., describe below)  
 \_\_\_\_\_

#### ENERGY SUMMARY: SEE COMCHECK SUMMARY REPORT

Energy Requirements:  
 The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If energy cost budget method, state the annual energy cost budget versus allowable annual energy cost budget.

Thermal Envelope	Method of Compliance: SEE COMCHECK CALCS
Roof/Ceiling Assembly (each assembly)	PRE-ENGINEERED BLDG FRAMING w/METAL ROOFING
Description of assembly	0.046
U-Value of total assembly	30
R-Value of total assembly	0.096
R-Value of insulation	-
U-Value of skylight	-
Total sq. ft. of skylights in each assembly	-
Exterior Walls (each assembly)	8" METAL STUDS, R-19 BATT INSUL, BRICK VENEER
Description of assembly	-
U-Value of total assembly	19
R-Value of insulation	-
Openings (windows or doors with glazing)	0.290
U-Value of assembly	0.38
Shading coefficient	0.40
Projection factor	-
Low E required, if applicable	-
Door R-Values	INSULATED METAL DOORS R-5

#### Walls adjacent to unconditioned space (each assembly)

Description of assembly	-
U-Value of total assembly	-
R-Value of insulation	-
Openings	-
U-Value of total assembly	-
Low E required, if applicable	-
Door R value	-

#### Walls below grade (each assembly)

Description of assembly	-
U-Value of total assembly	-
R-Value of insulation	-

#### Floors over unconditioned space (each assembly)

Description of assembly	-
U-Value of total assembly	-
R-Value of insulation	-

#### Floor slab on grade

Description of assembly	-
U-Value of total assembly	-
R-Value of insulation	0
Horizontal/vertical requirement	-

#### ELECTRICAL SUMMARY: SEE ELECTRICAL DRAWINGS

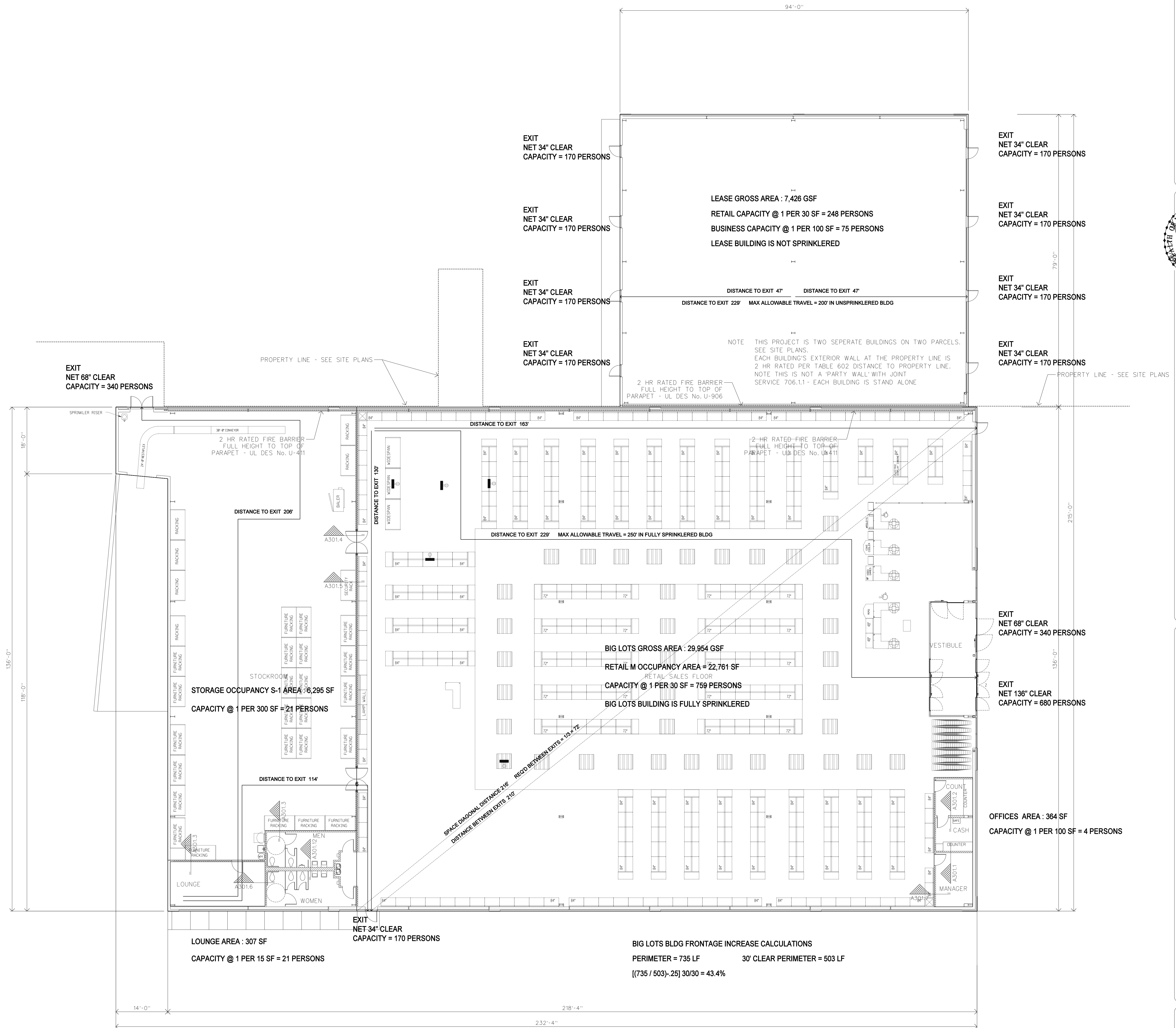
Electrical System and Equipment:	Method of Compliance: NA per Vol X Section 505
Lighting schedule	-
Lamp type required in fixture	-
Number of lamps in fixture	-
Ballast type used in the fixture	-
Number of ballasts in fixture	-
Total wattage per fixture	-
Total interior wattage specified versus allowed	-

#### Equipment schedules with motors

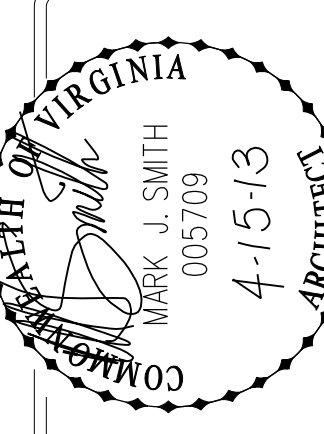
Motor horsepower	-
Number of phases	-
Minimum efficiency	-
Motor type	-
# of poles	-

#### MECHANICAL SUMMARY: SEE MECHANICAL DRAWINGS

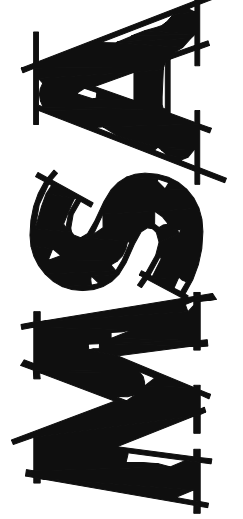
Mechanical Systems, Service Systems, and Equipment:	Method of Compliance:
Thermal zone:	Winter dry bulb Summer dry bulb
Interior design conditions:	Winter dry bulb Summer dry bulb Relative humidity
Building heating load:	-
Building cooling load:	-
Mechanical Spacing Conditioning System	Unitary
Description of unit	-
Heating efficiency	-
Cooling efficiency	-
Heat output of unit	-
Cooling output of unit</	



No.	Date:	Description
1	2-11-13	PER PLANNING DEPT COMMENTS
2	2-13-13	TRUCK DOCK / SCREEN WALL
2	2-13-13	FIRE BARRIER NOTE



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 Winterville, North Carolina 28990  
 (852) 717-4219 mark@marksmitharchitect.com



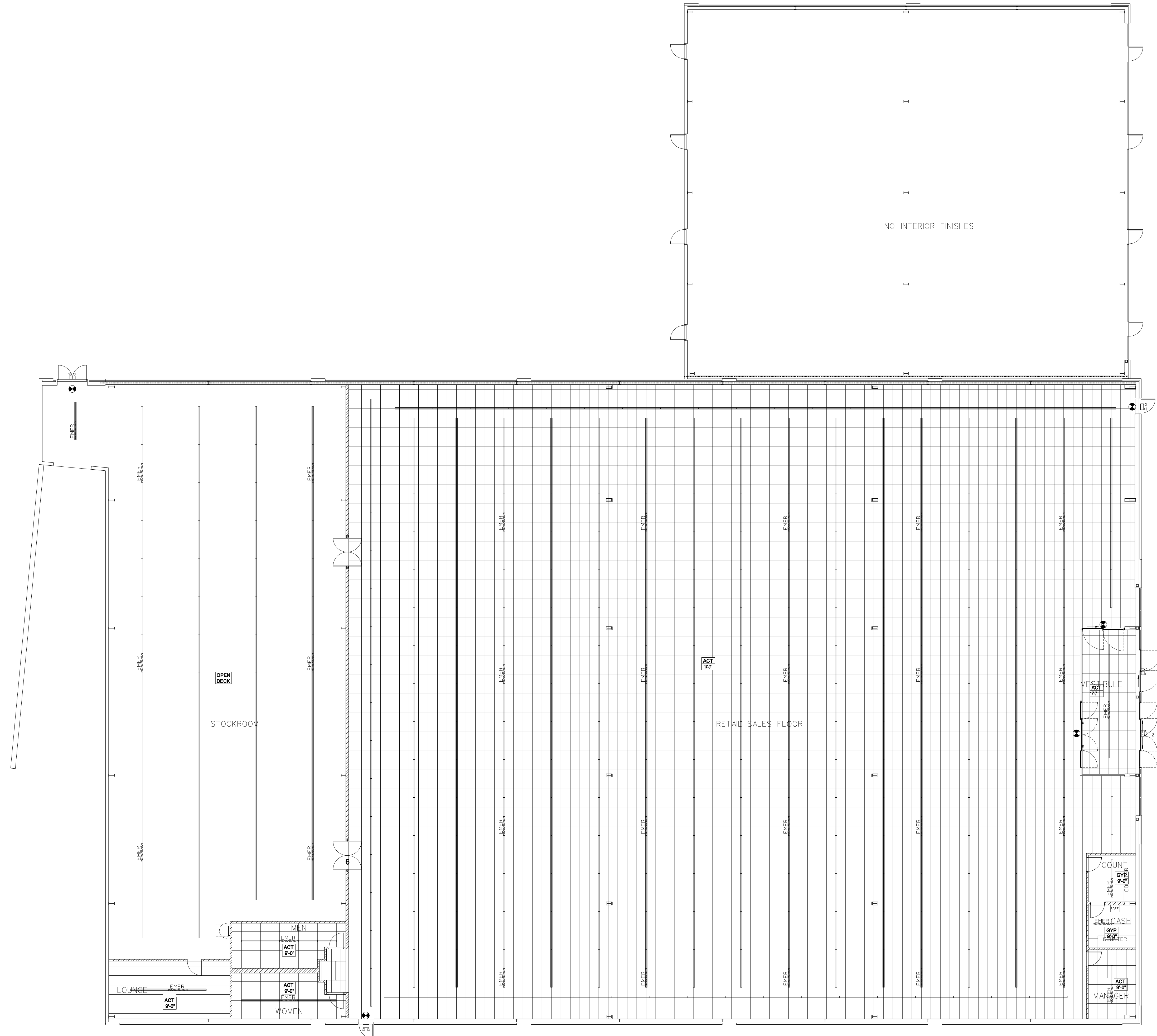
**BIG LOTS! & SHOPS**  
 CHESTERFIELD COUNTY VIRGINIA  
 #2699 AND 2669 WEIR PLACE

Date: **APRIL 10, 2013**  
 Drawing no.

**T-101**



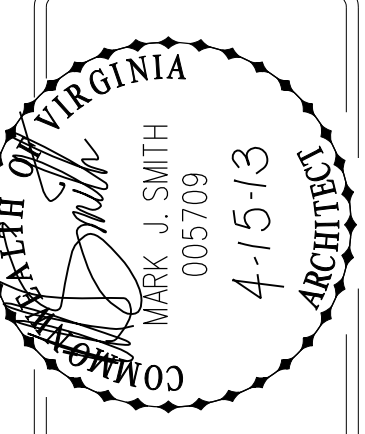




LEGEND	
	(GYP) GYPSUM BOARD
	(ACT) ACOUSTIC TILE
	CEILING HEIGHT GYPSUM BOARD
	CEILING HEIGHT ACOUSTIC TILE

REFLECTED CEILING PLAN 103.1  
SCALE: 3/32" = 1'-0"

No.	Date	Description



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**BIGLOTS! & SHOPS** VIRGINIA  
#2699 AND 2666 WEIR PLACE CHESTERFIELD COUNTY

Date: APRIL 10, 2013

Drawing no.

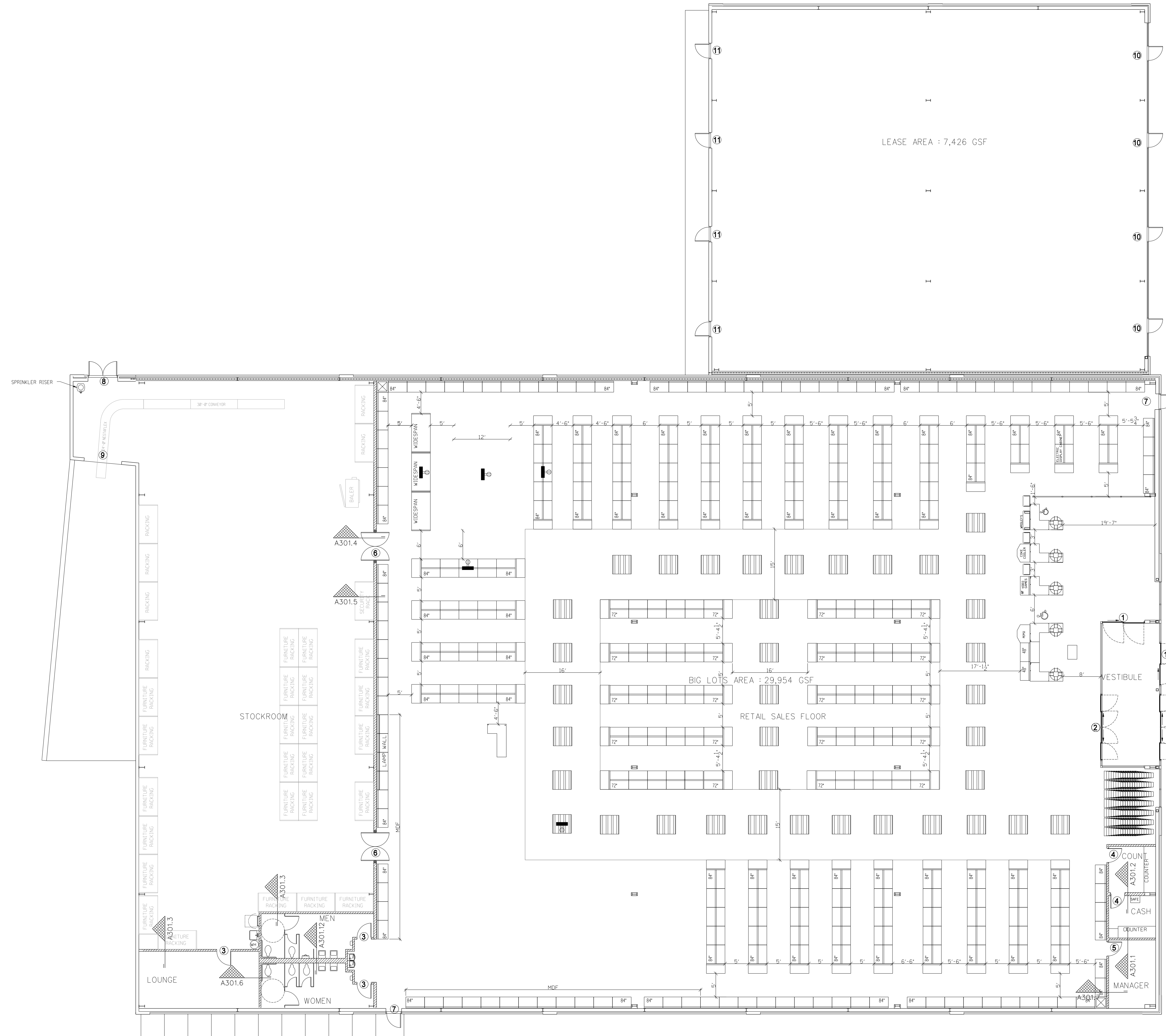
A-103



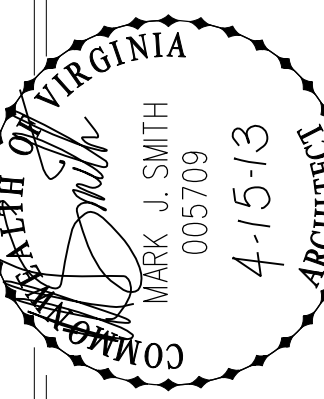
**ATTENTION FIXTURE INSTALLER**

**FIXTURE NOTES:**

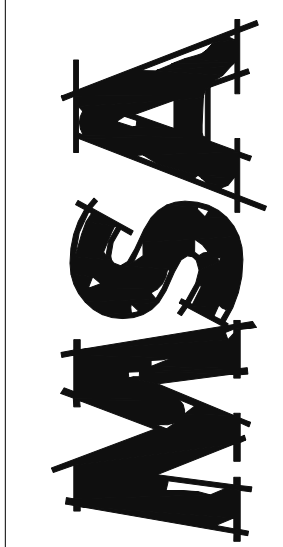
- 1) 48" GONDOLA RUN AT THE SERVICE COUNTER TO HAVE 22" DEEP BASE DECKS, (2) SHEETS OF 46"x 40" PEGBOARD ONE ON EACH SIDE PER 4' SECTION.
- 2) 72" GONDOLA RUNS TO HAVE 22" DEEP BASE DECKS, (2) SHEETS OF PEGBOARD OF 46"x 64", ONE ON EACH SIDE PER 4' SECTION.
- 72" END CAPS TO HAVE 48"x 22" BASE DECKS, 72" UPRITES, (2) SHEETS OF PEGBOARD OF 46"x 64" ONE ON EACH SIDE PER 4' SECTION, (2) BASE END TRIMS & (2) UPRITE END TRIMS.
- 3) 84" GONDOLA RUNS TO HAVE 22" DEEP BASE DECKS, (4) SHEETS OF PEGBOARD, (2) 46"x 40" & (2) 46" x 36", ONE SIZE OF EACH ON EITHER SIDE PER 4' SECTION.
- 84" END CAPS TO HAVE 48"x 22" BASE DECKS, 84" UPRITES, (4) SHEETS OF PEGBOARD, (2) 46"x 40" & (2) 46" x 36", ONE SIZE OF EACH ON EITHER SIDE PER 4' SECTION, (2) BASE END TRIMS & (2) UPRITE END TRIMS.
- 4) 54" WALLCASE RUNS HAVE 25" DEEP BASE DECKS, (2) SHEETS OF 46" x 46" PEGBOARD, ONE ON EACH SIDE PER 4' SECTION.
- 5) 84" WALLCASE RUNS HAVE 25" DEEP BASE DECKS, (2) SHEETS OF PEGBOARD, (1) 46"x 40" & (1) 46"x 36" PER 4' SECTION.



No.	Date:	Description



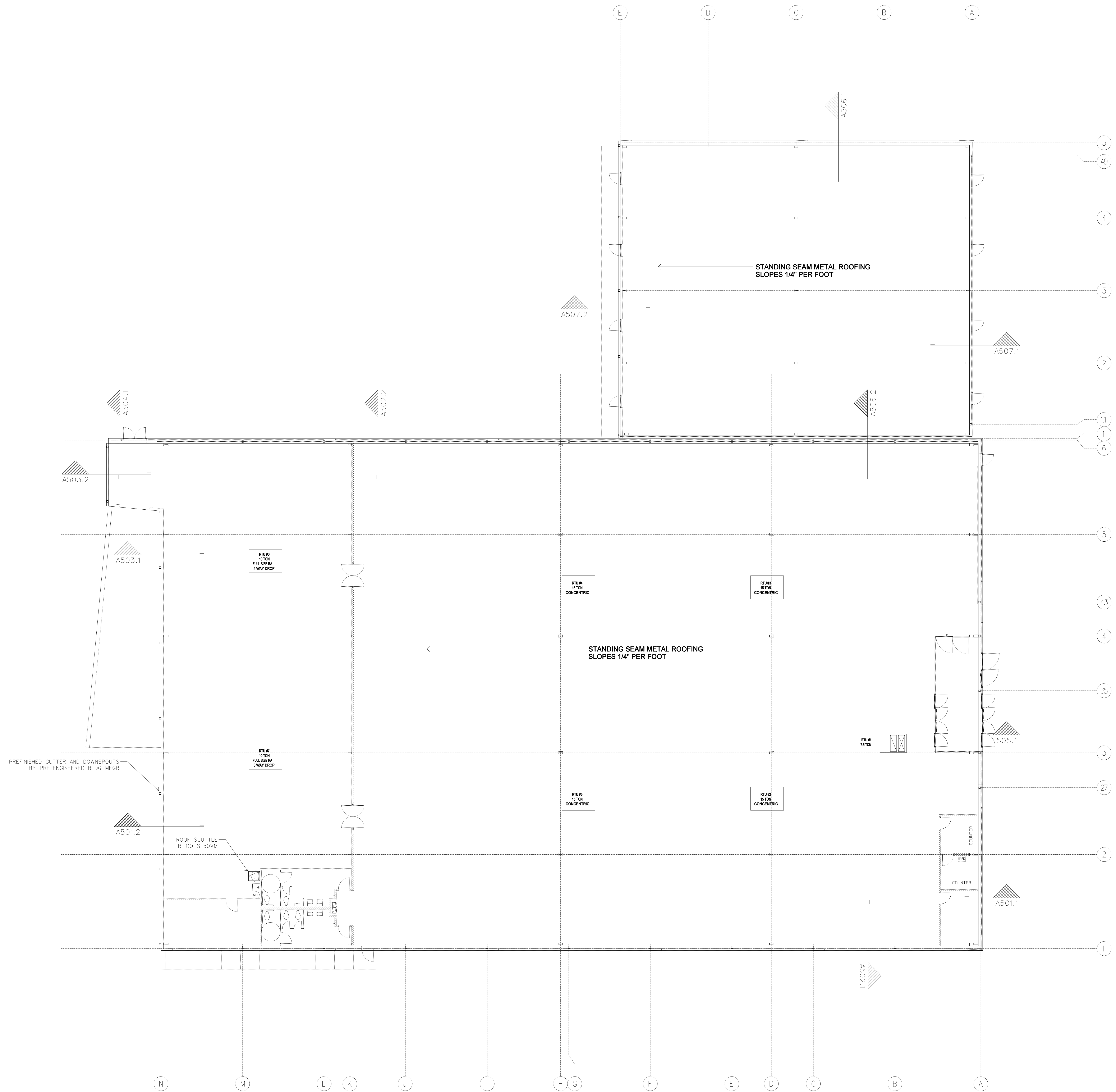
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**BIG LOTS! & SHOPS**  
#2689 AND 2669 WEIR PLACE CHESTERFIELD COUNTY VIRGINIA

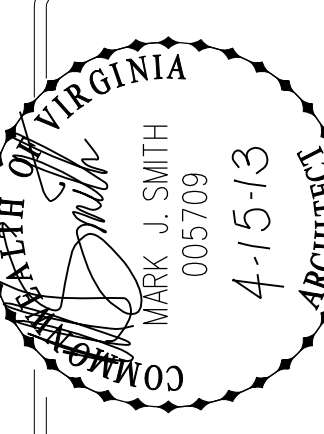
Date: **APRIL 10, 2013**  
Drawing no.

**A-102**

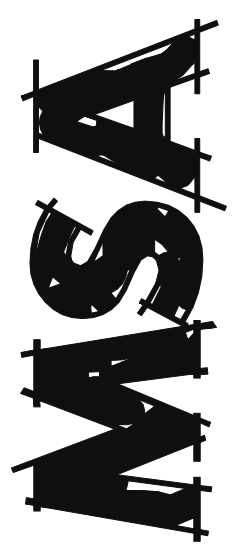


**ROOF PLAN 104.1**  
SCALE: 3/32" = 1'-0"

No.	Date:	Description



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Winterville, North Carolina 28090  
(822) 717-4219 mark@marksmitharchitect.com



**BIGLOTS! & SHOPS**  
#2689 AND 2660 WEIR PLACE CHESTERFIELD COUNTY VIRGINIA

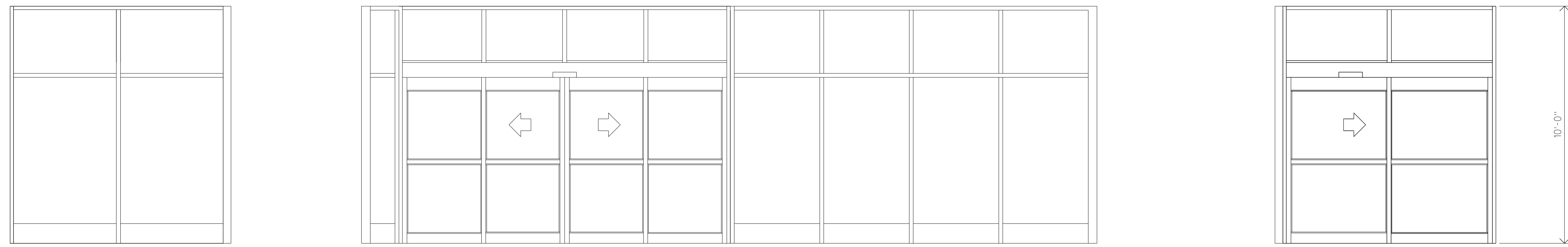
Date: **APRIL 10, 2013**

Drawing no.

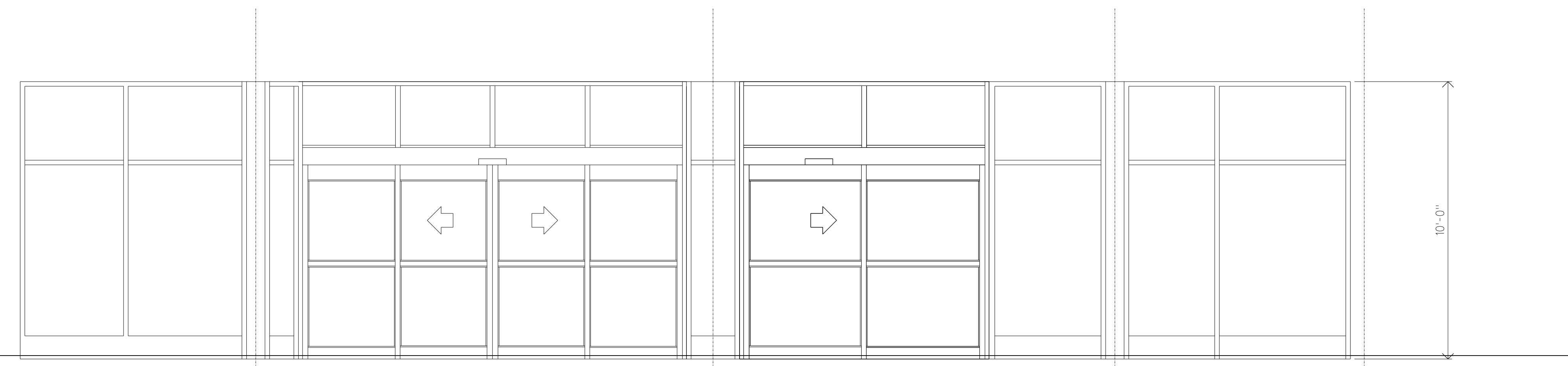
**A-104**



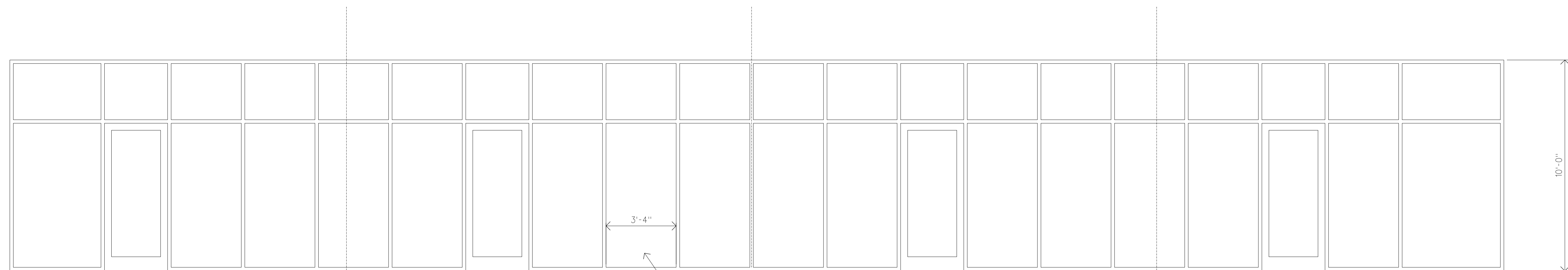




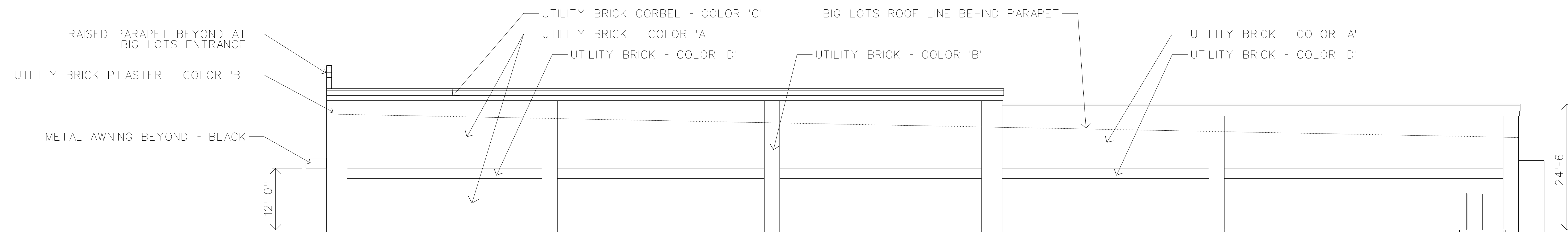
**BIG LOTS INTERIOR VESTIBULE STOREFRONT ELEVATION 202.4**  
SCALE: 3/8" = 1'-0"



**BIG LOTS ENTRANCE STOREFRONT ELEVATION 202.3**  
SCALE: 3/8" = 1'-0"



**SHOPS STOREFRONT ELEVATION 202.2**  
SCALE: 3/8" = 1'-0"



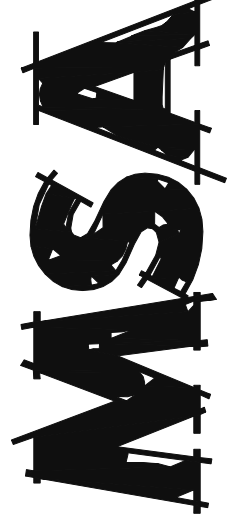
**ALTERNATE BIG LOTS NORTH ELEVATION SHOWN WITHOUT SHOPS BUILDING 202.1**  
SCALE: 3/32" = 1'-0"

**BRICK TYPES** CAROLINA CERAMICS OR EQUIV  
 BRICK COLOR 'A' CRIMSON LIGHT SMOOTH+WR 2900  
 BRICK COLOR 'B' CRIMSON DARK SMOOTH+WR 2246  
 BRICK COLOR 'C' CRIMSON LIGHT VELOUR+WR 2492  
 BRICK COLOR 'D' EMPIRE IVORY SMOOTH+WR 2084

No.	Date	Description



**Mark Smith Architect**  
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**BIGLOTS! & SHOPS**  
 CHESTERFIELD COUNTY VIRGINIA  
 #2699 AND 2660 WEIR PLACE

Date: **APRIL 10, 2013**  
 Drawing no.

**A-202**

### ROOM FINISH SCHEDULE

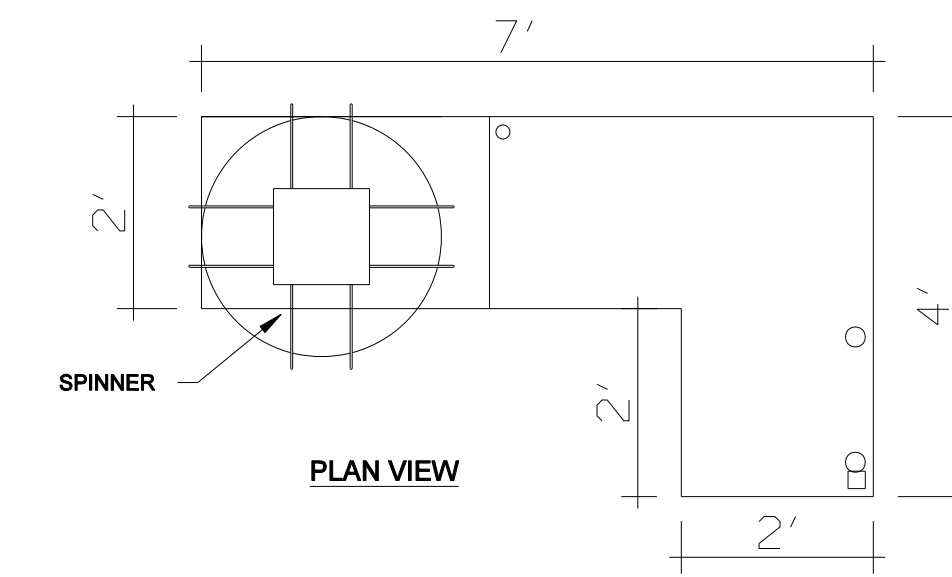
ROOM & OR AREA	FLOOR		BASE	WALLS SURFACE	CEILING		REMARKS
	VTI JORDON #4000 POLISHED CONCRETE	SEALED CONCRETE			MATERIAL	HEIGHT	
VESTIBULE				P-1			
SALES AREA:							
SIDE WALLS				P-1			
FRONT & REAR WALLS				P-3			
INTERIOR STEEL COLUMNS				P-10			
LOUNGE				P-1			
WOMEN'S RESTROOM				P-6			
MEN'S RESTROOM				P-6			
MANAGER'S OFFICE				P-1			
COUNT ROOM				P-1	P-1		
CASH ROOM				P-1			
STOCK ROOM	P-11			P-9			
JANITOR SINK AREA	P-11			P-9			
RESTROOM ENTRY				P-1			
WATER COOLER AREA				P-1, P-7			

### INTERIOR FINISH LEGEND

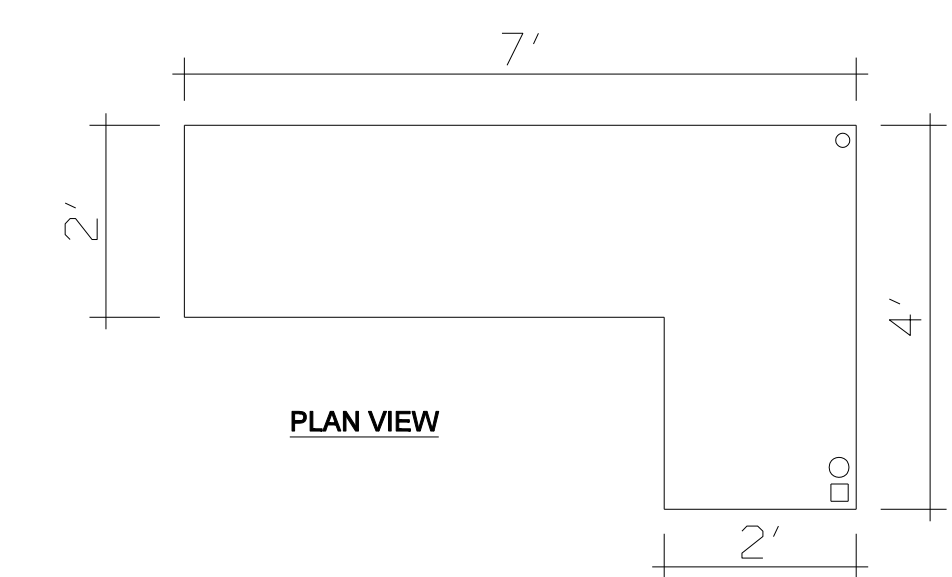
- P-1 SHERWIN WILLIAMS - PROMAR 200 LATEX - EGGSHELL FINISH - #SW6355 - DOVER WHITE
- P-3 SHERWIN WILLIAMS - PROMAR 200 LATEX - EGGSHELL FINISH - #SW6258 - TRICORN BLACK
- P-4 SHERWIN WILLIAMS - PRODUCT# A418200 - ALL SURFACE ENAMEL - ACRYLIC LATEX GLOSS, BLACK
- P-5 WALNUT STAIN WITH POLYURATHANE FINISH
- P-6 FIBERGLASS REINFORCED PLASTIC "FRP" BRITE WHITE WITH T-MOLDING & J-MOLDING ON ALL WALLS FROM FLOOR TO CEILING.
- P-7 FIBERGLASS REINFORCED PLASTIC "FRP" BRITE WHITE WITH T-MOLDING & J-MOLDING ON WALL BEHIND WATER COOLER FROM FLOOR TO CEILING.
- P-8 FIBERGLASS REINFORCED PLASTIC "FRP" BRITE WHITE WITH T-MOLDING & J-MOLDING ON WALL BEHIND MOP SINK FROM FLOOR TO MAX. 8'-0" A.F.F.
- P-9 INSTALL FIRE RETARDANT TREATED PLYWOOD ON THE BACK OF ALL EXPOSED STOCKROOM DRYWALLS TO 4'-0" A.F.F. EXCEPT AT EXTERIOR CMU WALLS
- P-10 SHERWIN WILLIAMS - DTM #B66W111 - GLOSS FINISH - #SW6385 - DOVER WHITE
- P-11 CONCRETE FLOOR SEALER EUCCO DIAMOND CLEAR #18178 APPLICATION - FLOOR TO BE SCRUBBED AND APPLY 3 COATS WITH ROLLER - NO SPRAY APPLICATIONS
- P-12 SHERWIN WILLIAMS - BRILLIANT WHITE - DRY FALL FLAT FINISH - B48W60

### EXTERIOR FINISH SCHEDULE

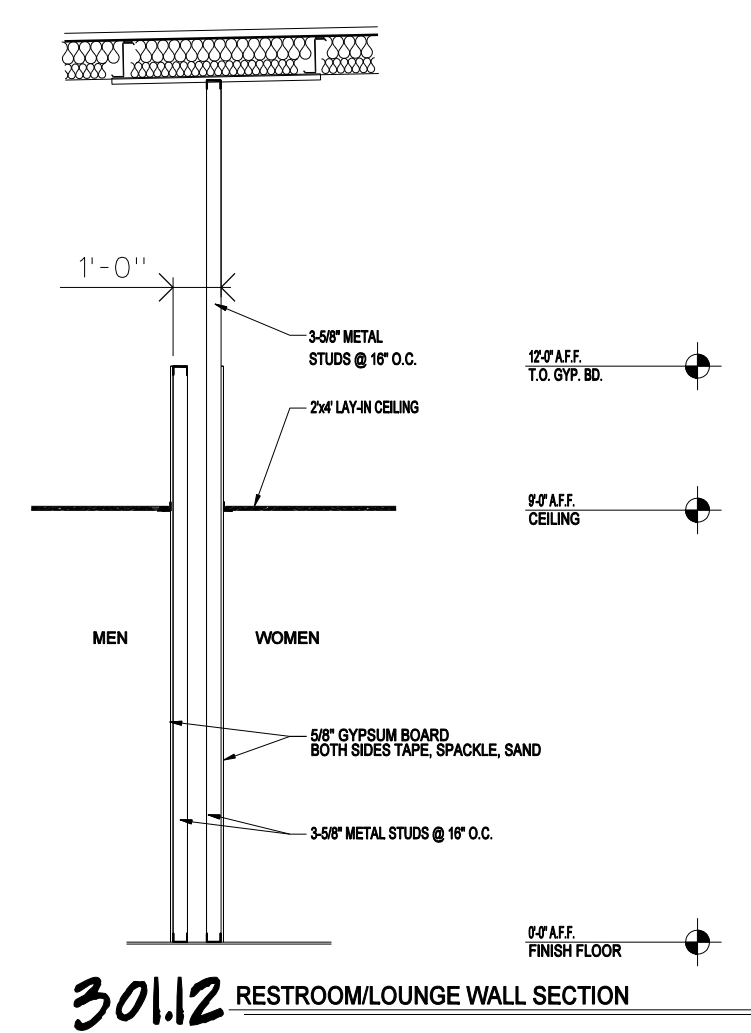
- EP-1 BUILDING EXTERIOR & SIGN ERIS AREAS - SHERWIN WILLIAMS A100 SATIN - #SW6590 INTRICATE IVORY
- EP-2 METALWOOD BUILDING TRIM & ROOF CAPS - SHERWIN WILLIAMS A100 GLOSS - #SW6258 - TRICORN BLACK
- EP-3 INTERIOR AND EXTERIOR WINDOW MULLIONS SHERWIN WILLIAMS - BOND-PLEX WATER BASED ACRYLIC COATING B71-200 SERIES - SW6258 - TRICORN BLACK (ONLY APPLIES IF MULLIONS ARE NOT CLEAR OR DARK BRONZE FINISH)



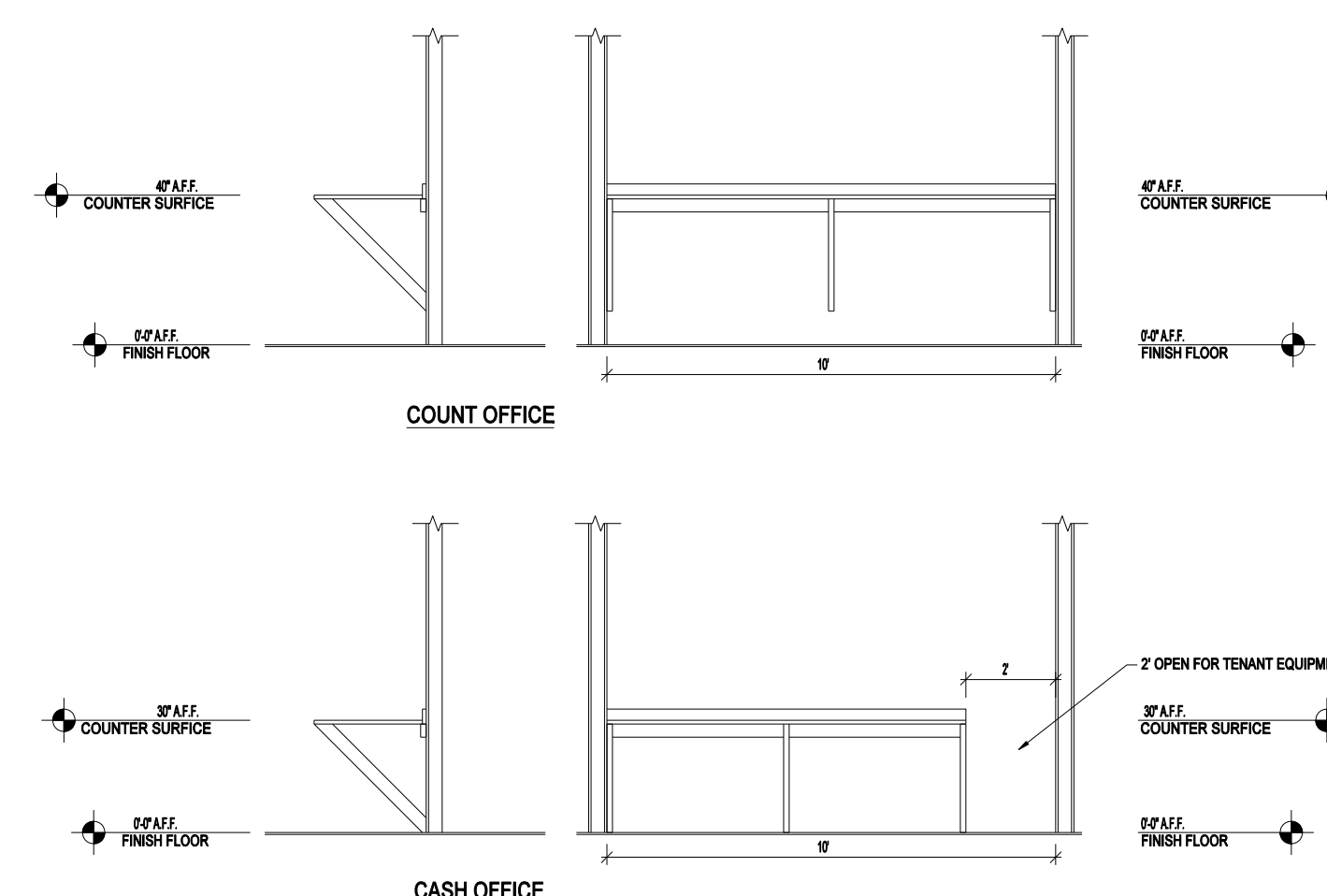
301.15 CHECKOUT DETAILS



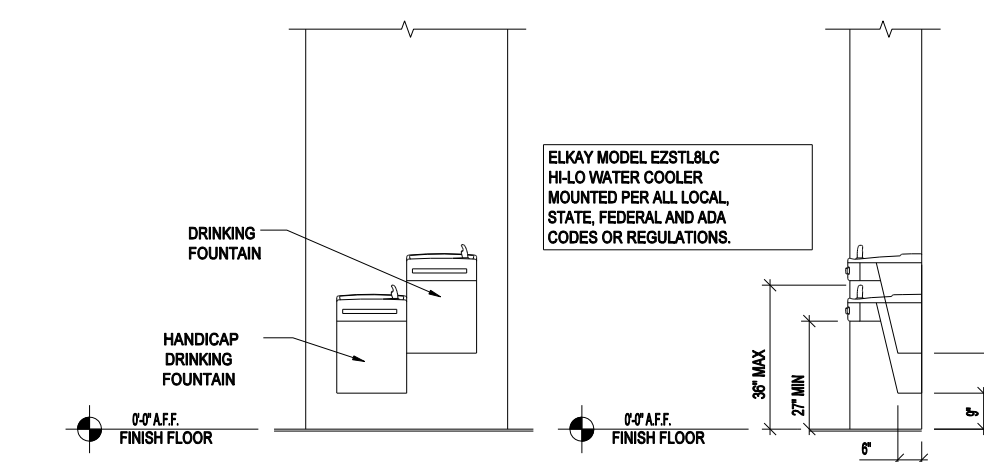
301.14 FURNITURE CHECKOUT DETAILS



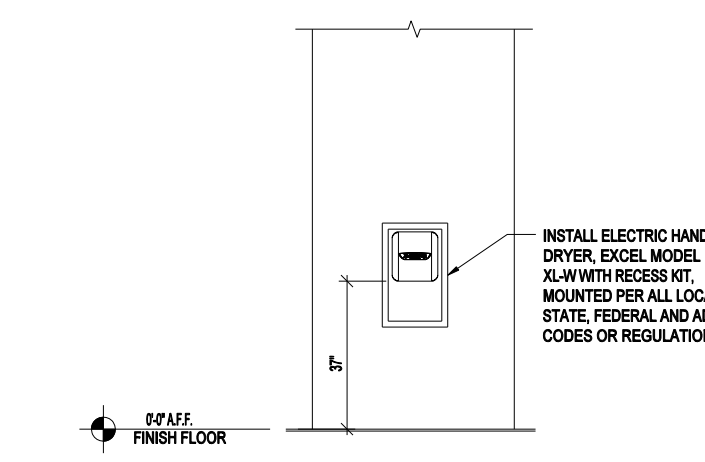
301.12 RESTROOM/LOUNGE WALL SECTION



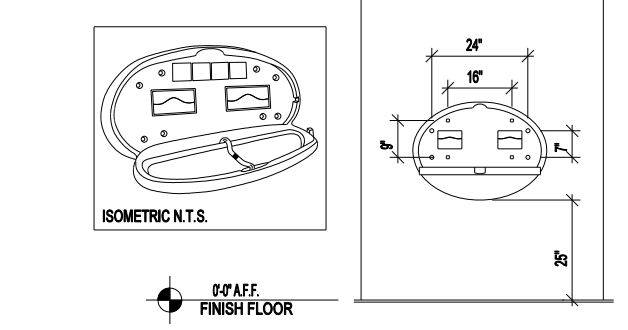
301.11 OFFICE COUNTER ELEVATIONS



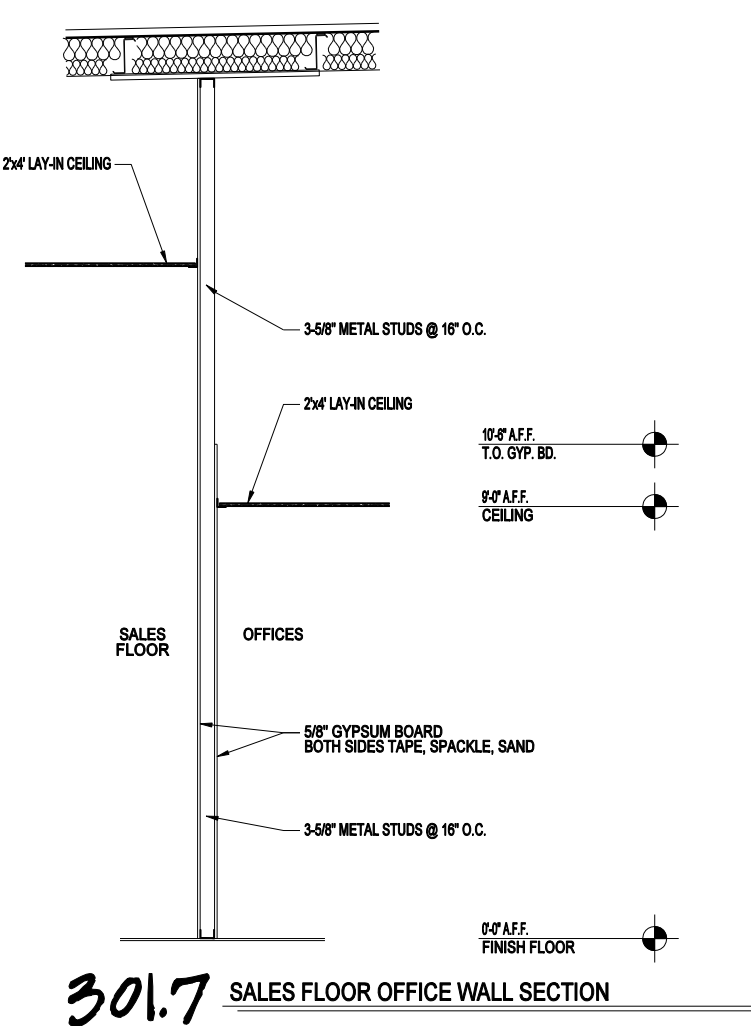
301.10 WATER COOLER ELEVATION



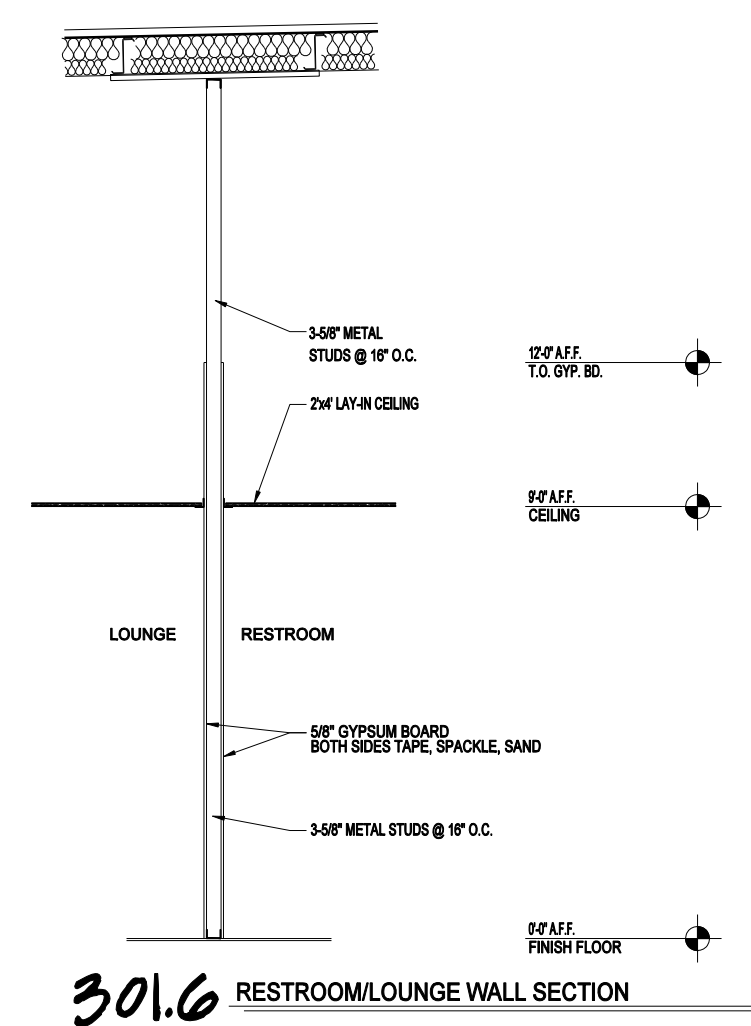
301.9 HAND DRYER ELEVATION



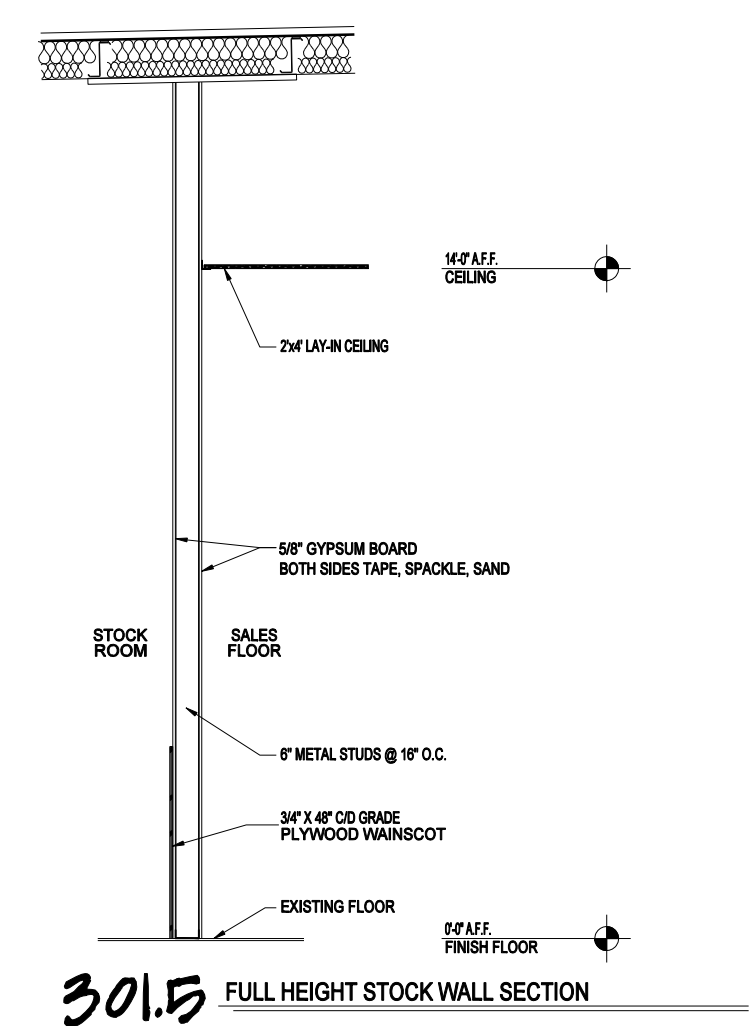
301.8 BABY CHANGING TABLE



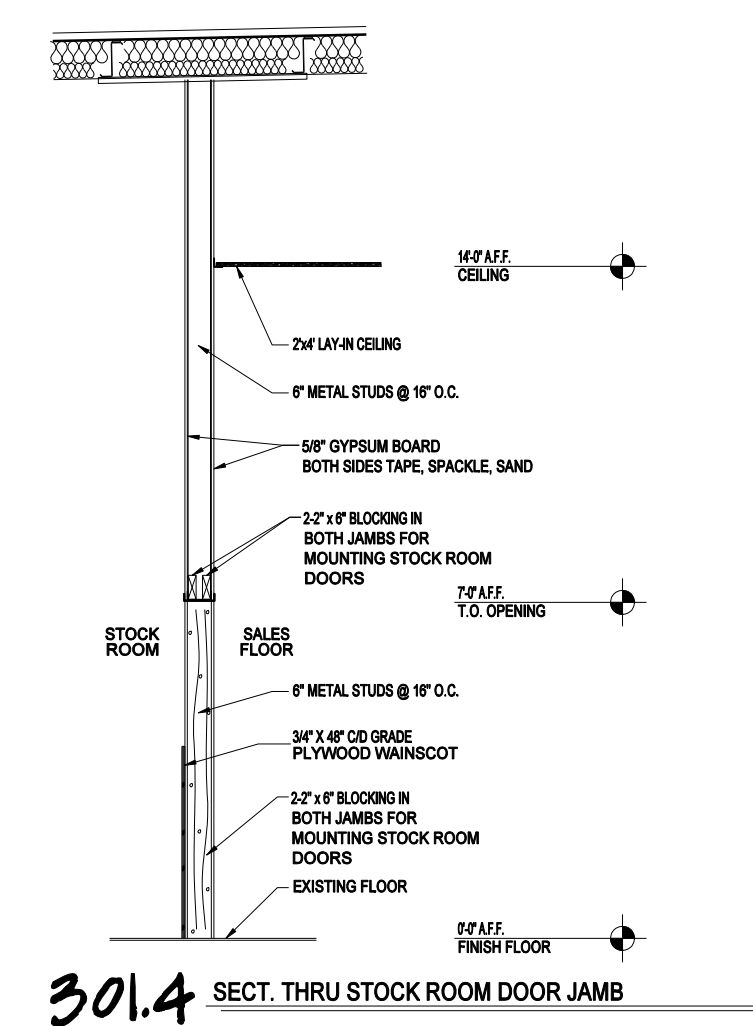
301.7 SALES FLOOR OFFICE WALL SECTION



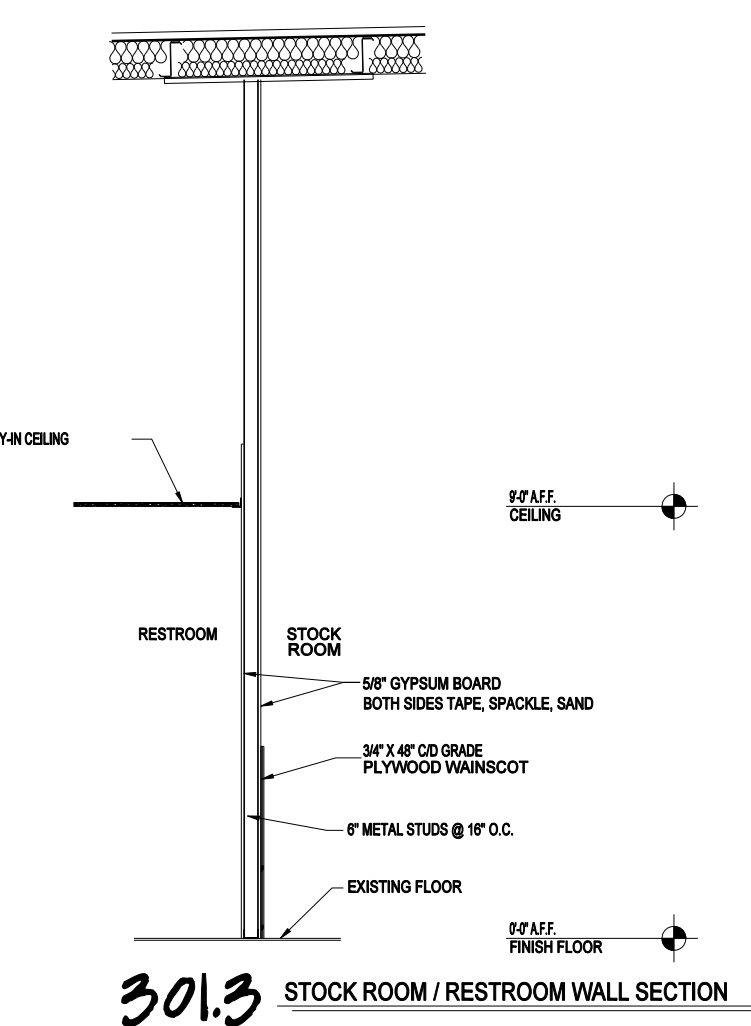
301.6 RESTROOM/LOUNGE WALL SECTION



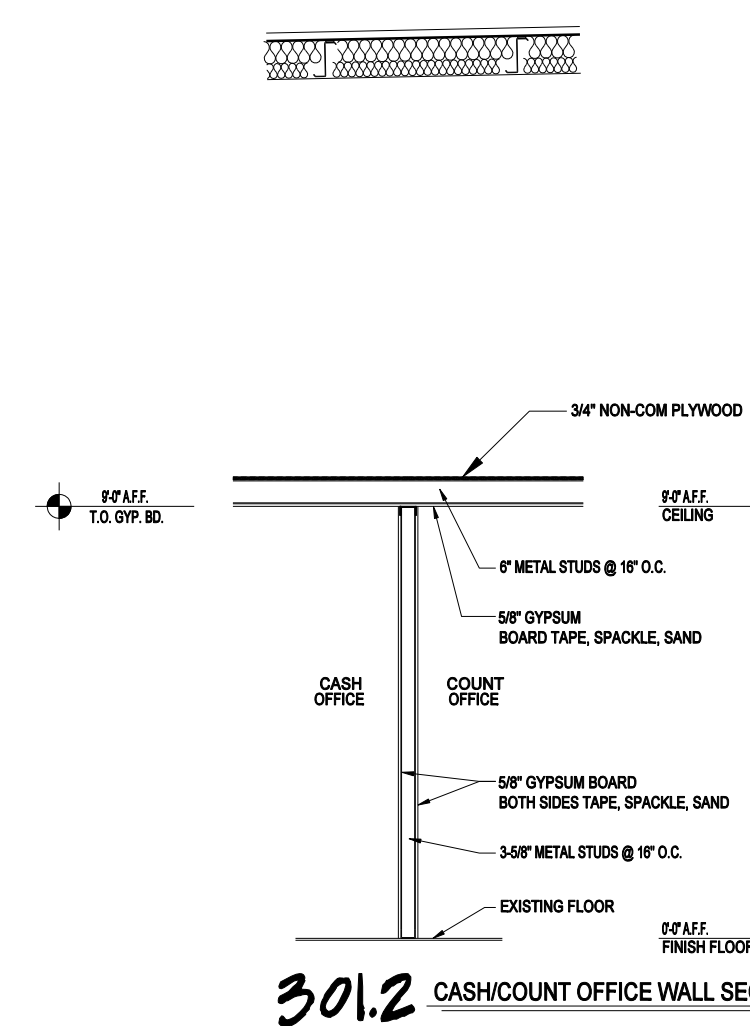
301.5 FULL HEIGHT STOCK WALL SECTION



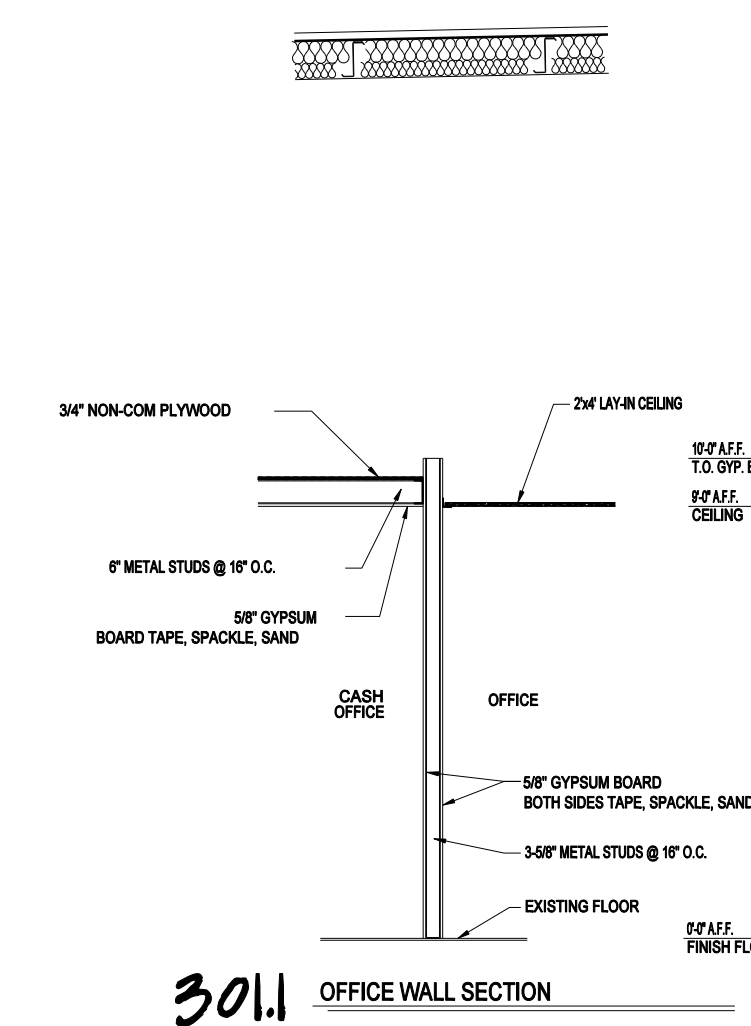
301.4 SECT. THRU STOCK ROOM DOOR JAMB



301.3 STOCK ROOM / RESTROOM WALL SECTION



301.2 CASH/COUNT OFFICE WALL SECTION

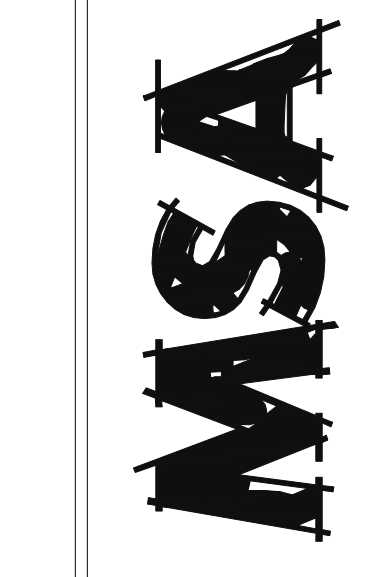


301.1 OFFICE WALL SECTION

No.	Date	Description



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(857) 717-4219 mark@marksmitharchitect.com

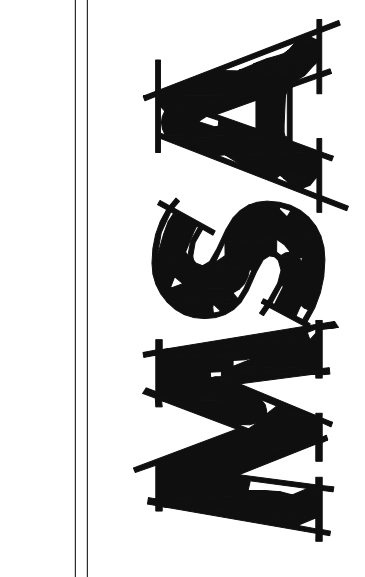


BIG LOTS! & SHOPS  
#2690 AND 2660 WEIR PLACE CHESTERFIELD COUNTY VIRGINIA

No.	Date:	Description



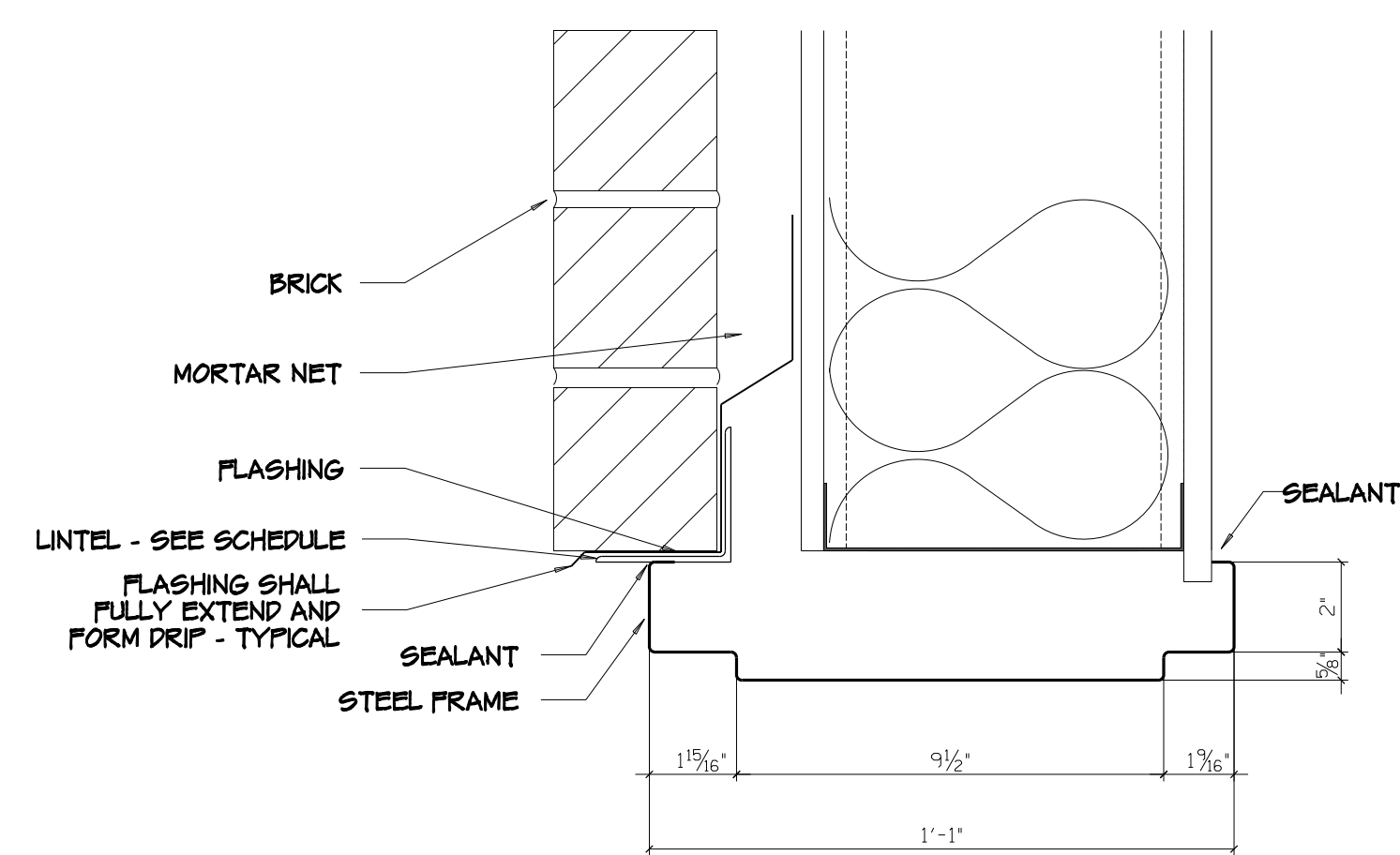
**MSA** Mark Smith Architect  
 415 Grasshopper Court  
 Winterville, North Carolina 28090  
 (888) 717-4219 mark@marksmitharchitect.com



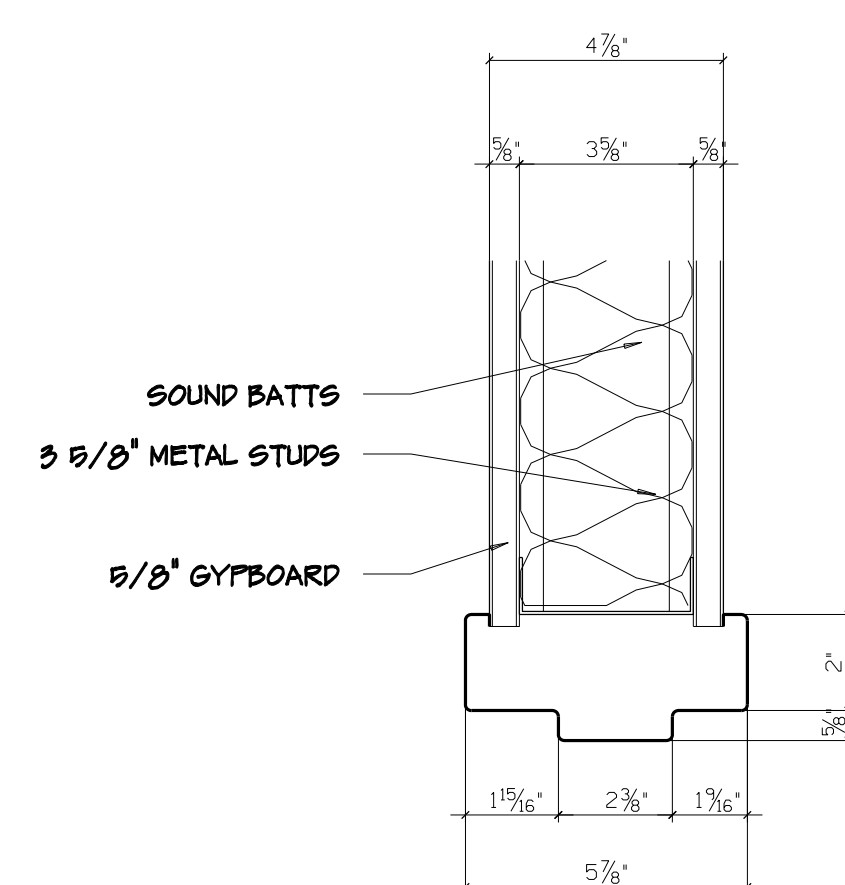
**BIGLOTS! & SHOPS**  
 CHESTERFIELD COUNTY VIRGINIA  
 #2694 AND 2666 WEIR PLACE

Date: APRIL 15, 2013  
 Drawing no.

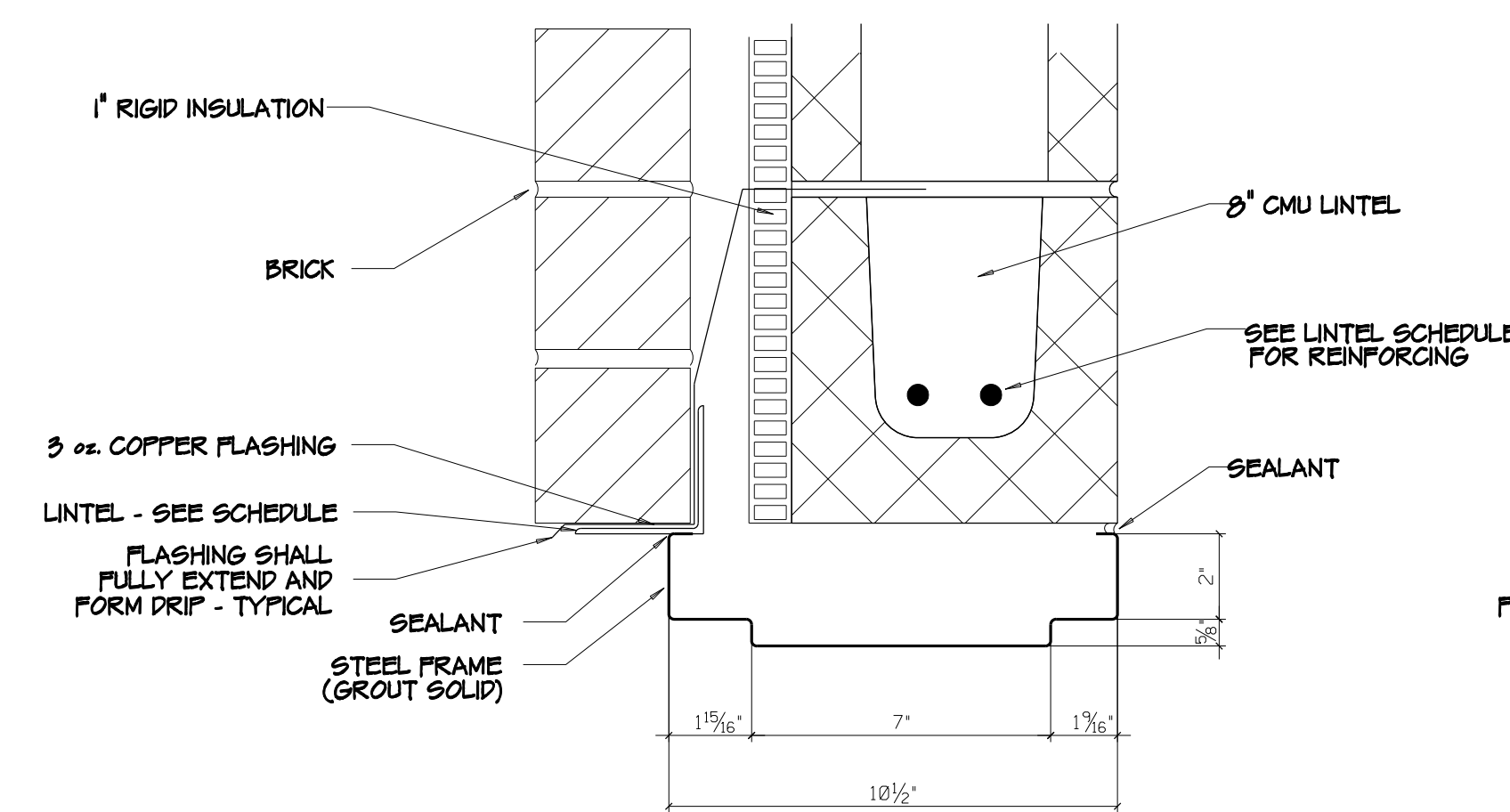
**A-401**



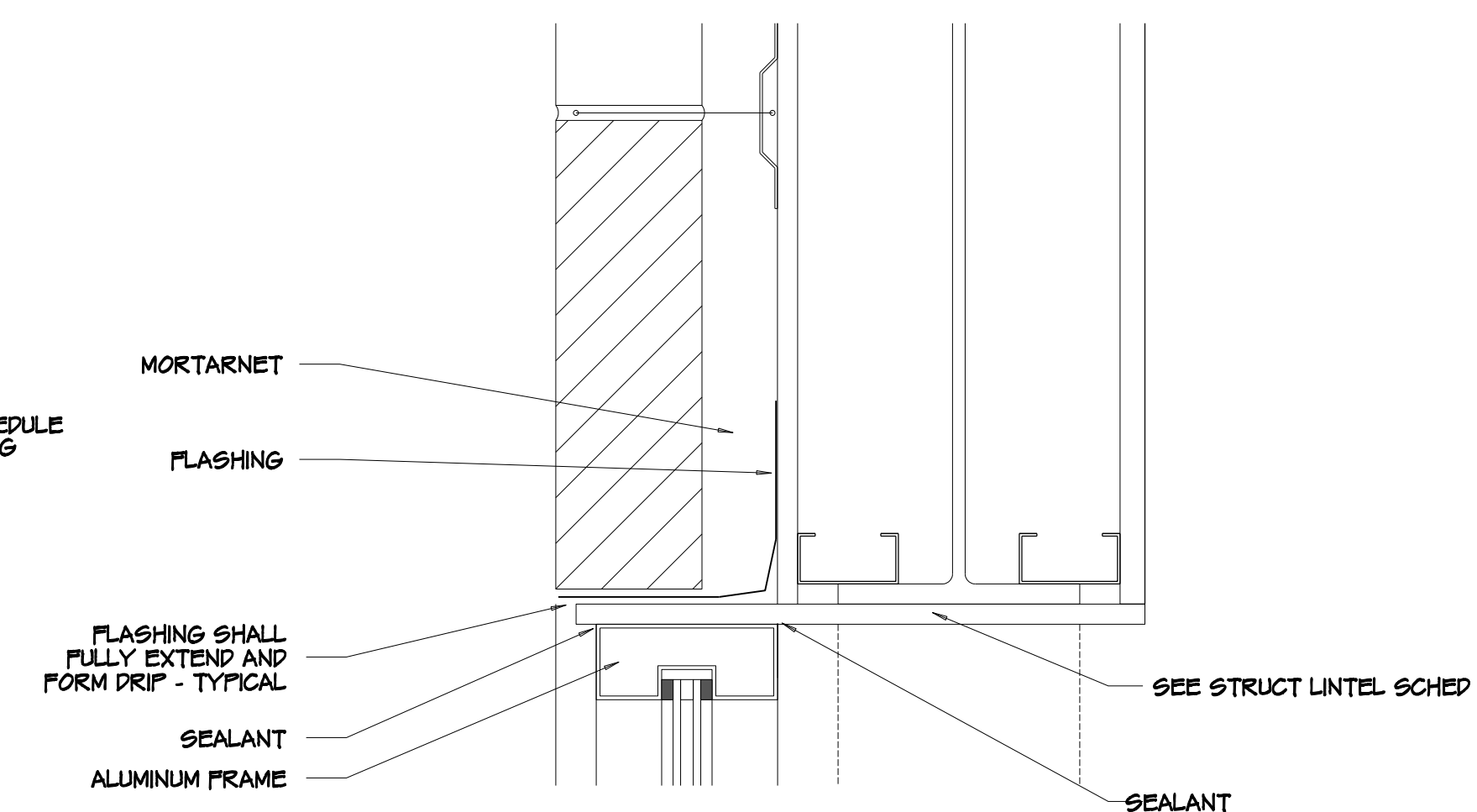
**401.8** TYP STUD EXTERIOR HM HEAD



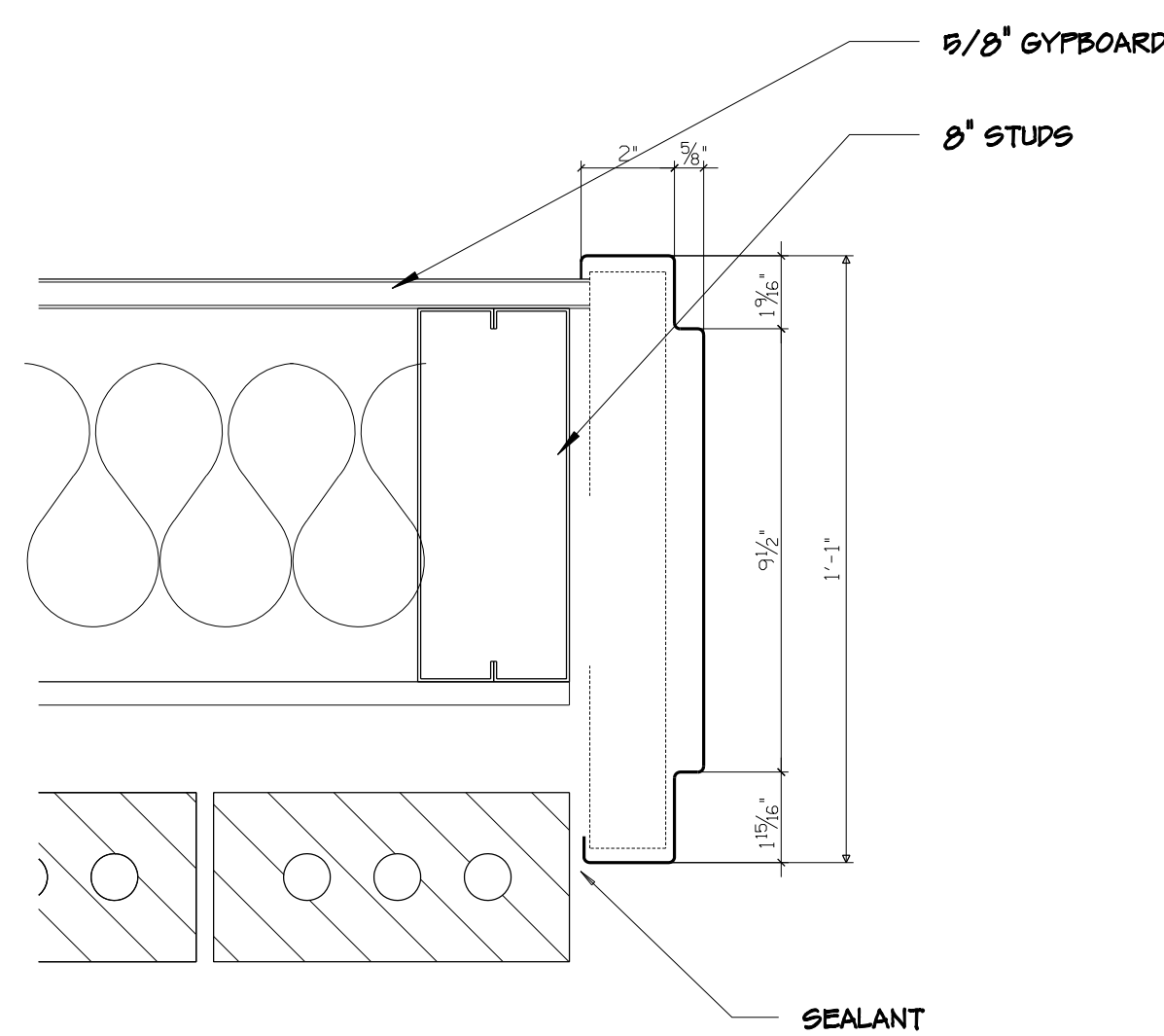
**401.7** TYP STUD PARTITION HEAD



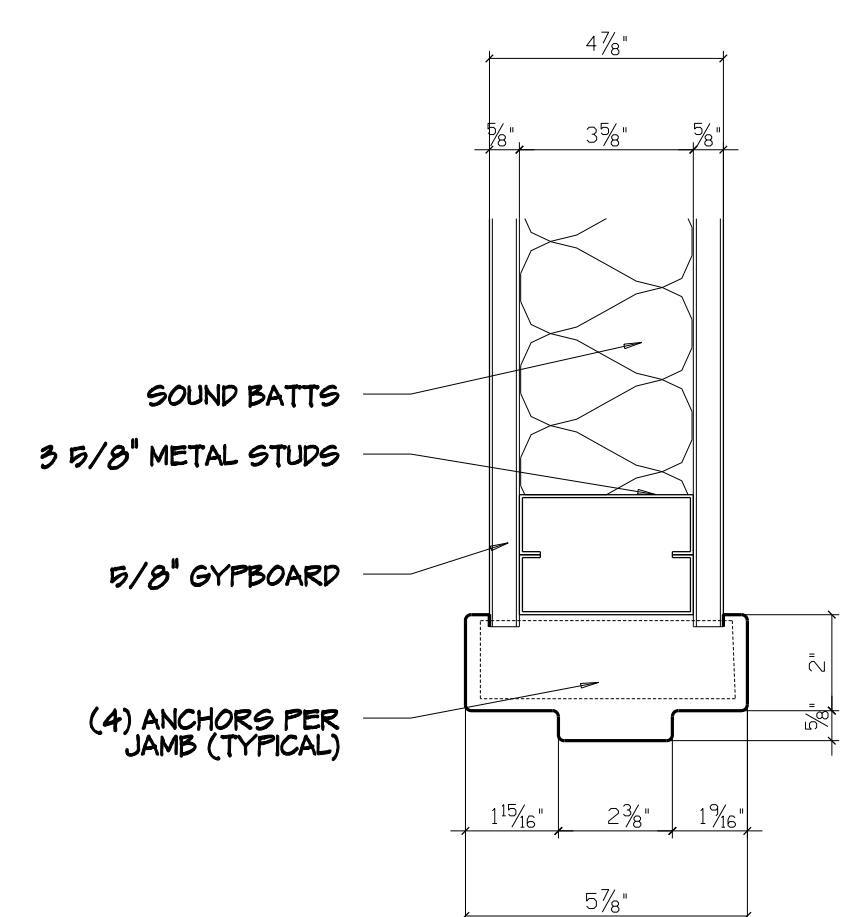
**401.6** TYP CMU EXTERIOR HM HEAD



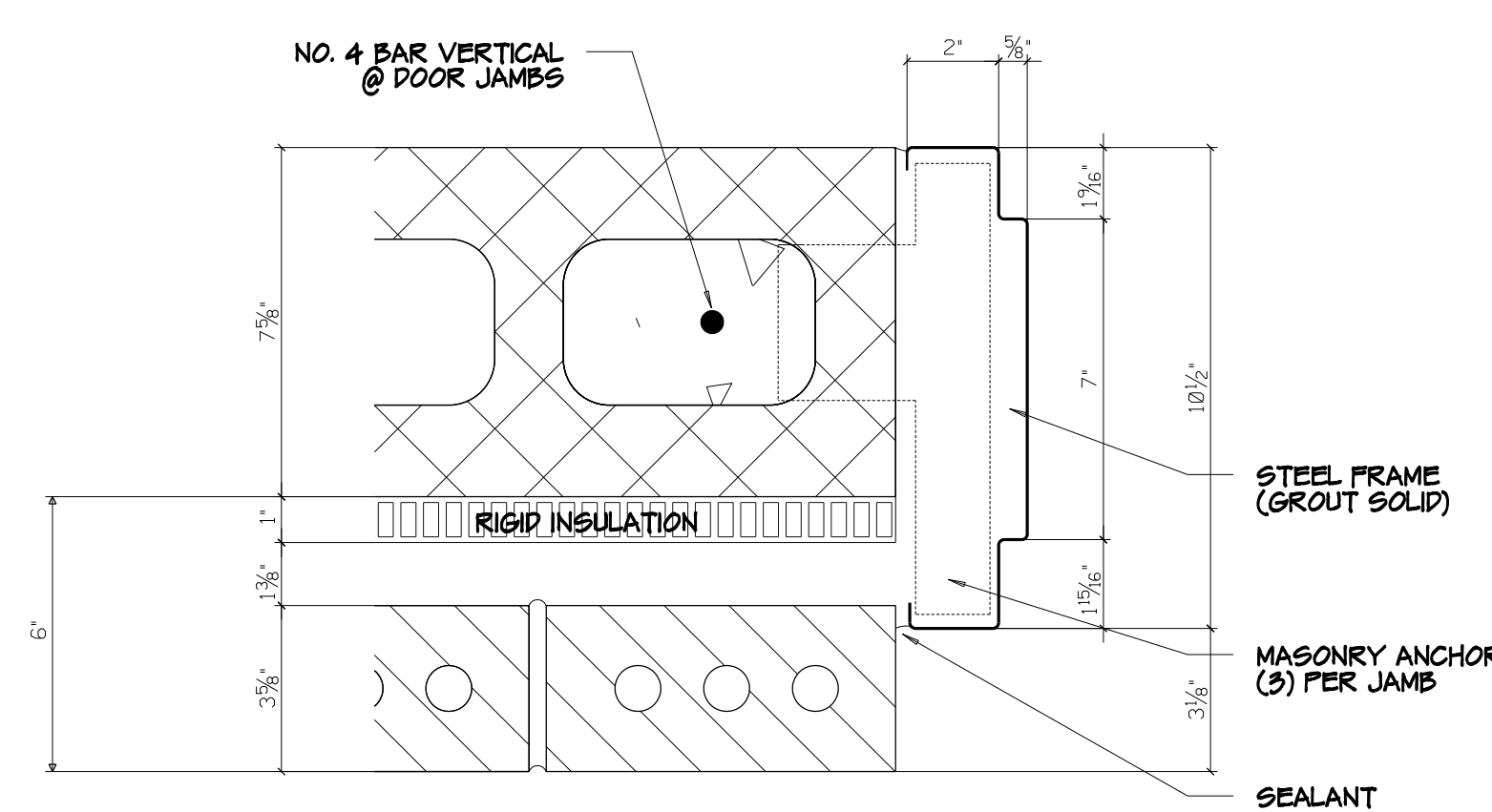
**401.5** TYP EXTERIOR ALUM HEAD



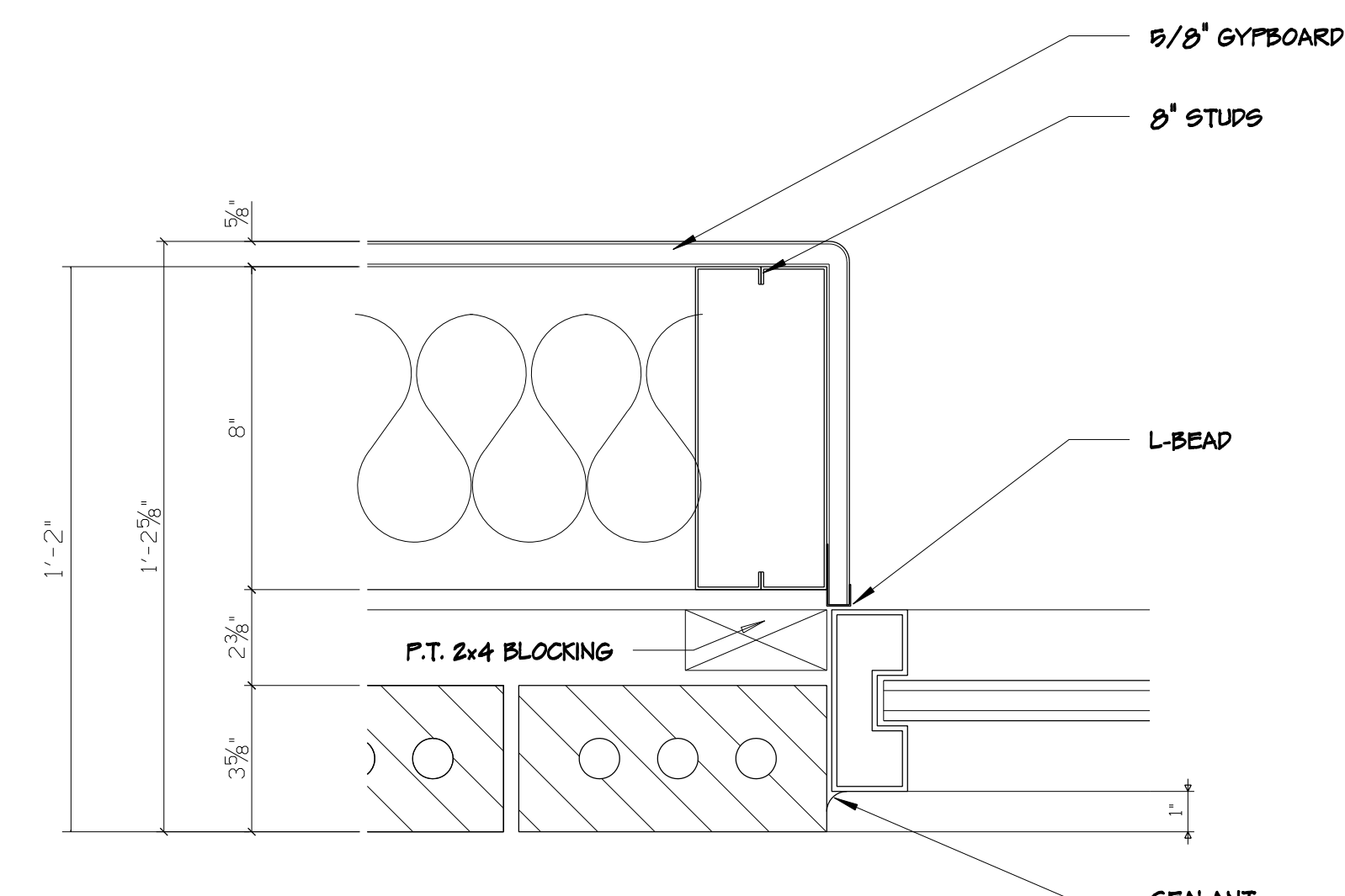
**401.4** TYP STUD EXTERIOR HM JAMB



**401.3** TYP STUD PARTITION JAMB



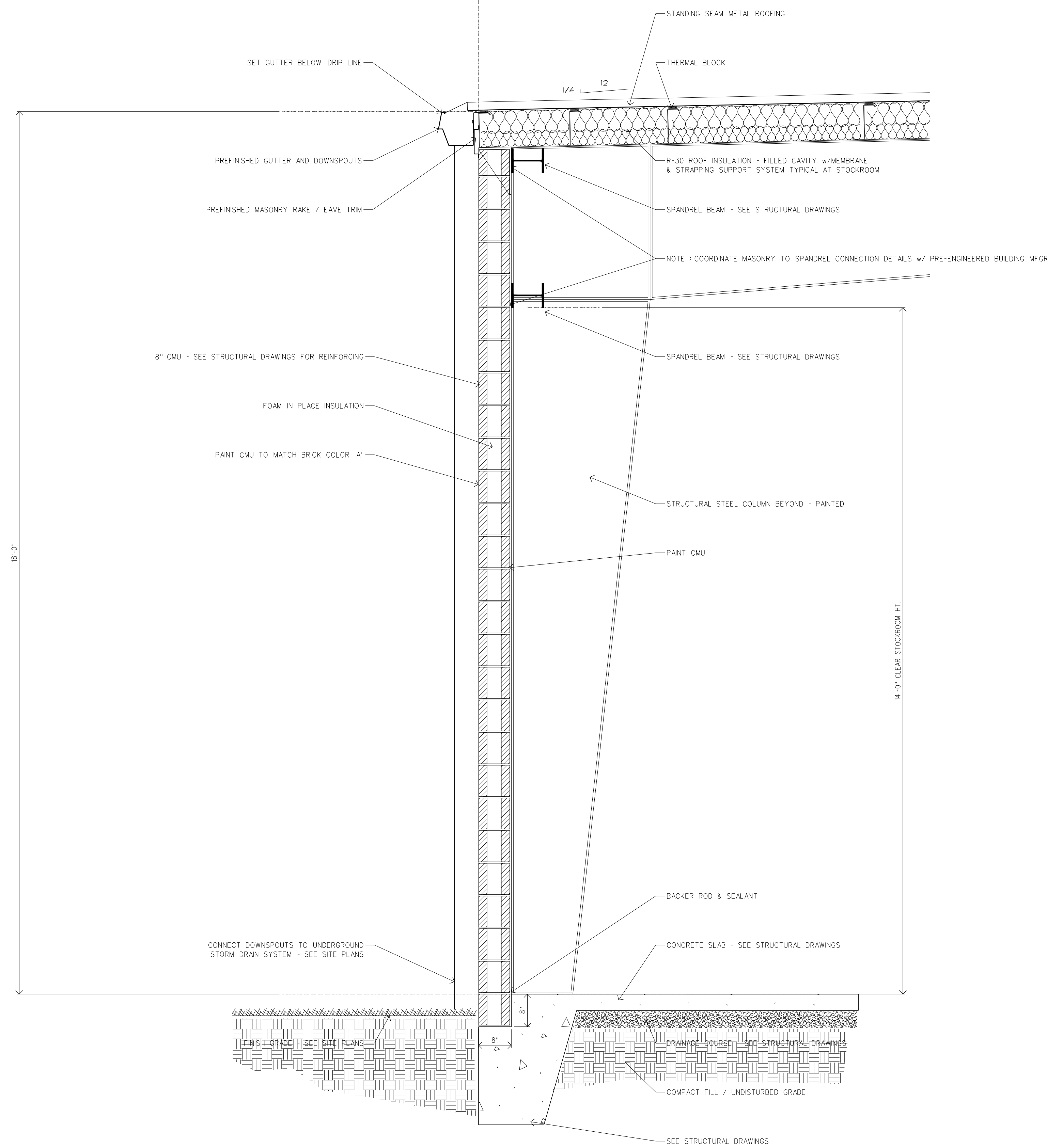
**401.2** TYP CMU EXTERIOR HM JAMB



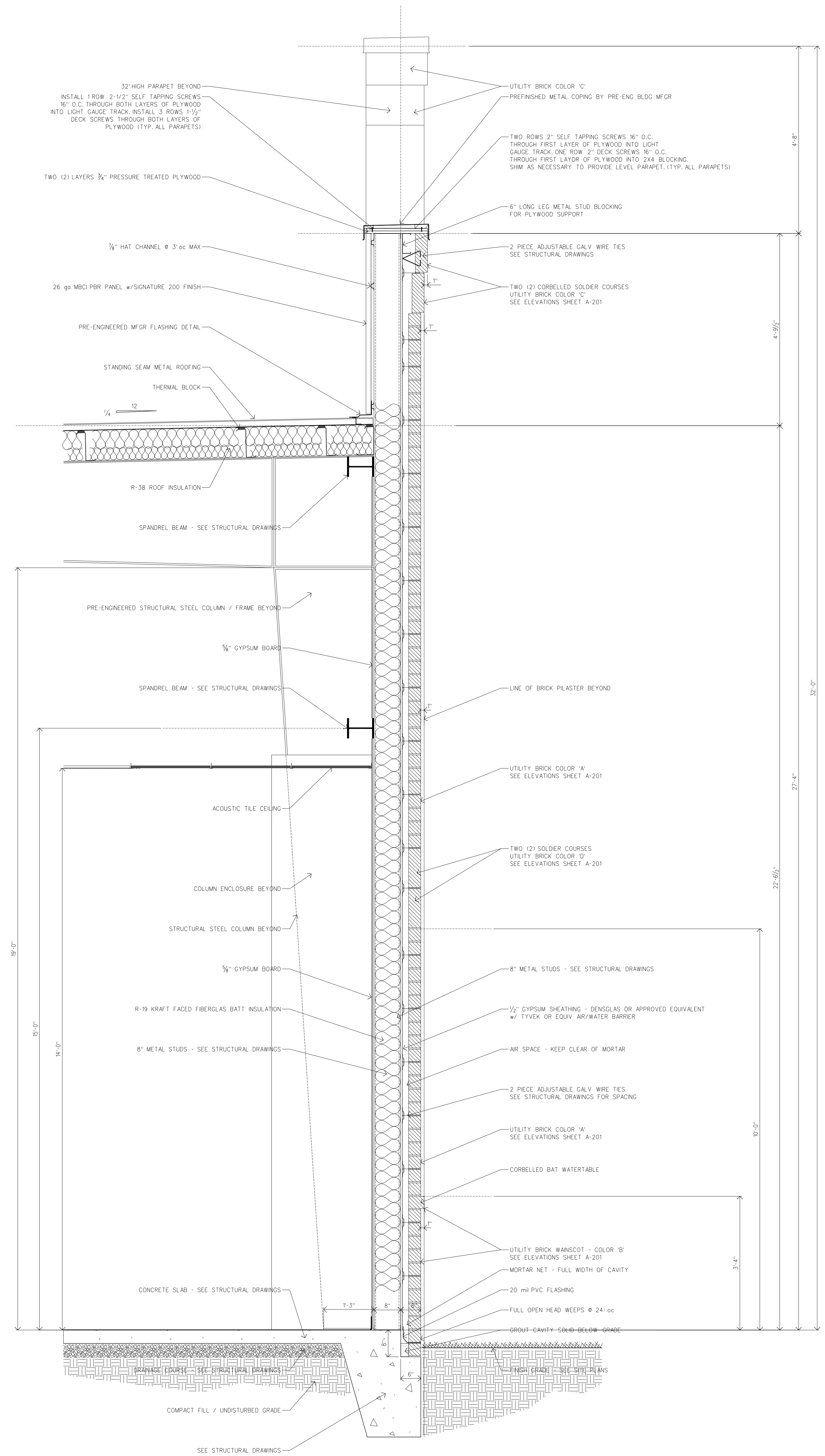
**401.1** TYP EXTERIOR ALUM JAMB

DOOR DETAILS 401  
 SCALE: 3/4" = 1'-0"



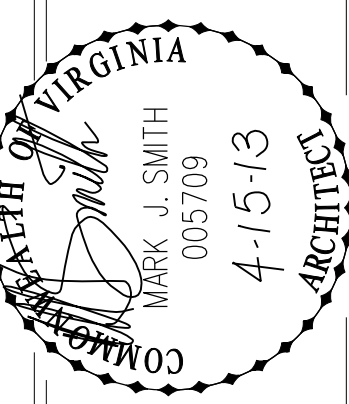


WALL SECTION AT LOW EAVE - REAR WALL 501.2  
SCALE: 3/4" = 1'-0"

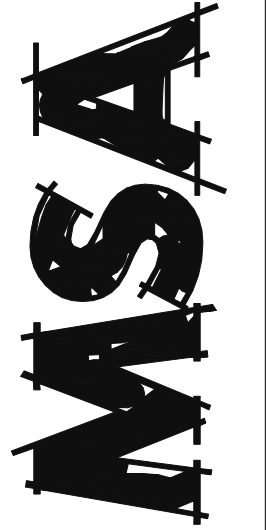


WALL SECTION AT HIGH EAVE - FRONT WALL 501.1  
SCALE: 3/4" = 1'-0"

No.	Description



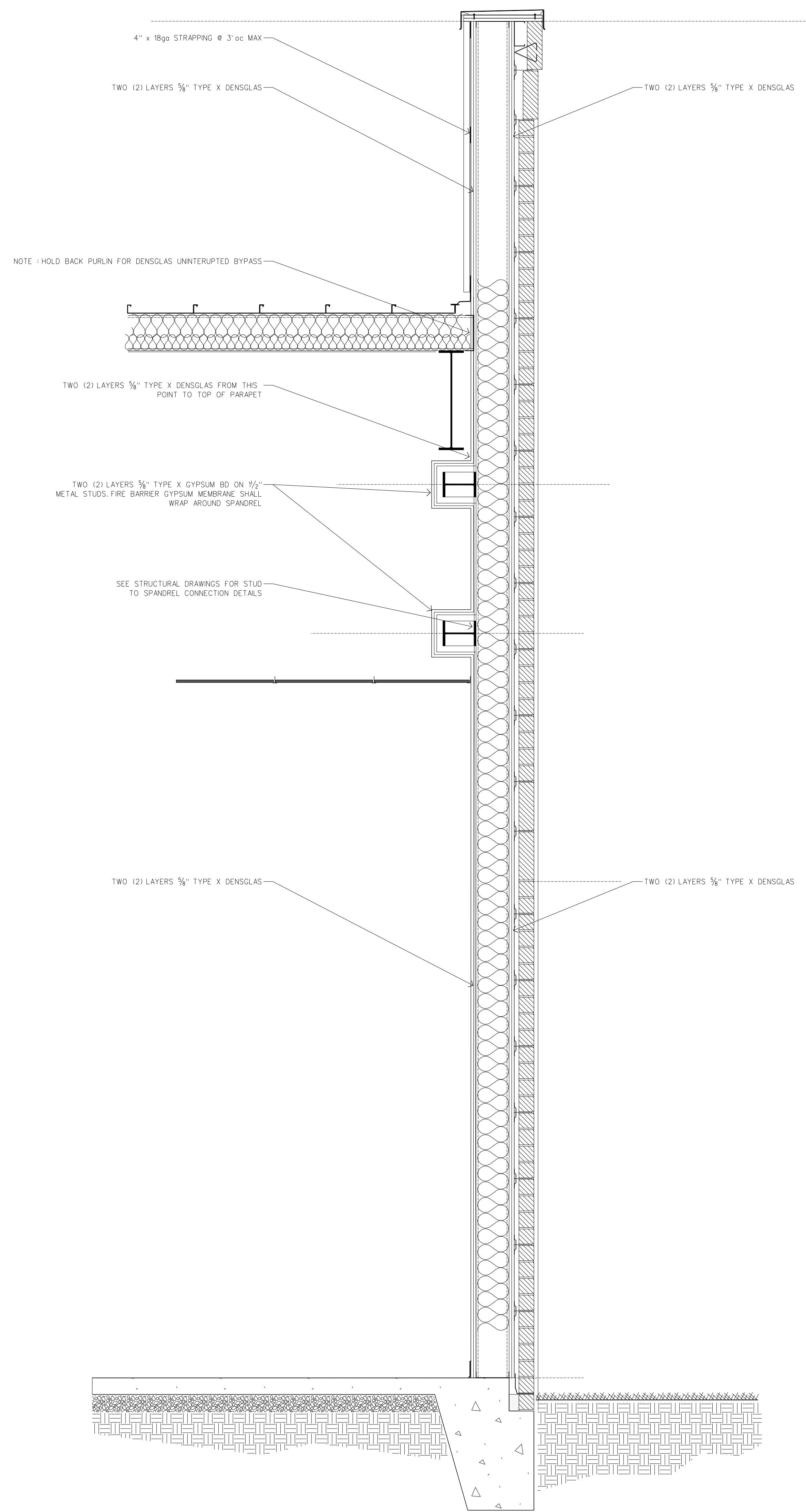
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(828) 717-4219 mark@marksmitharchitect.com



BIGLOTS! & SHOPS  
CHESTERFIELD COUNTY VIRGINIA  
#2689 AND 2666 WEIR PLACE

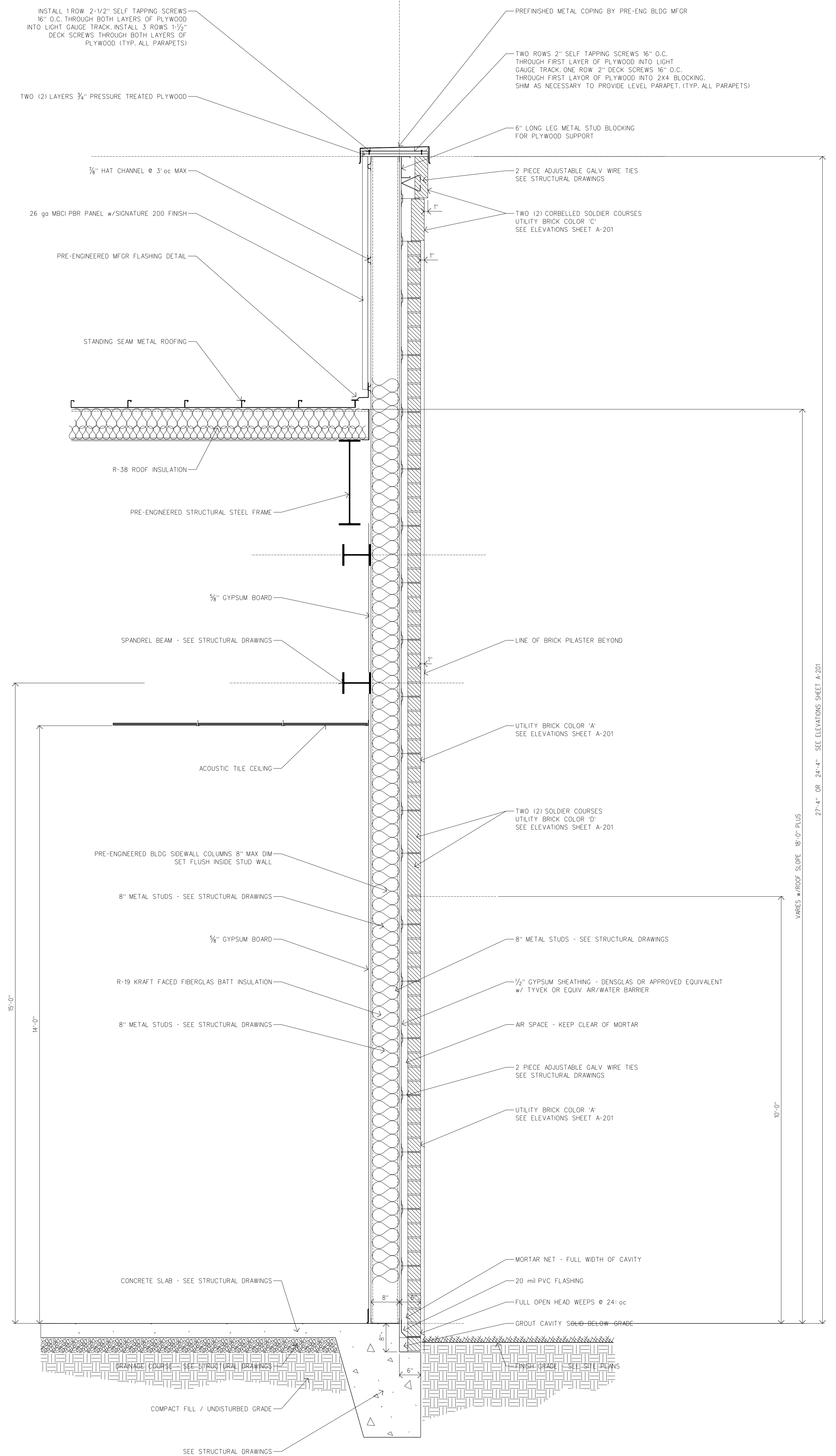
Date: APRIL 10, 2013  
Drawing no.

A-501



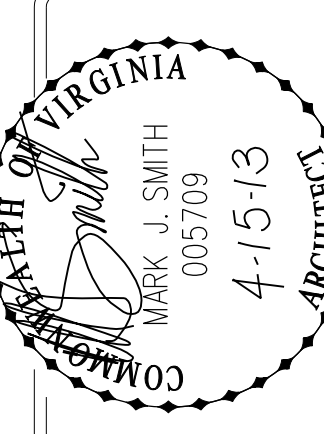
U.L. DES No. U-411

WALL SECTION AT 2 HR RATED SIDEWALL 502.2  
SCALE: 3/4" = 1'-0"



WALL SECTION AT TYPICAL SIDEWALL 502.1  
SCALE: 3/4" = 1'-0"

No.	Date	Description

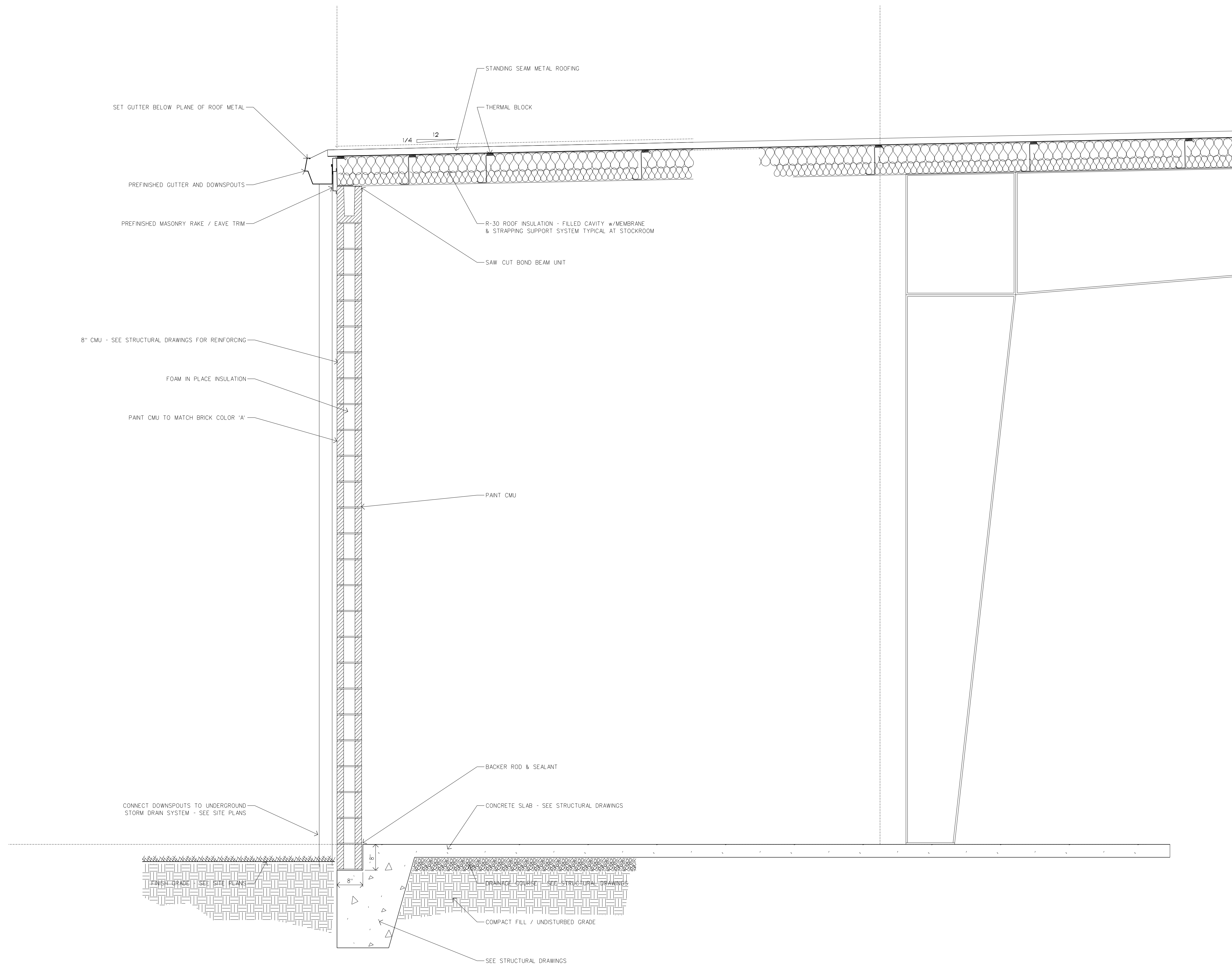


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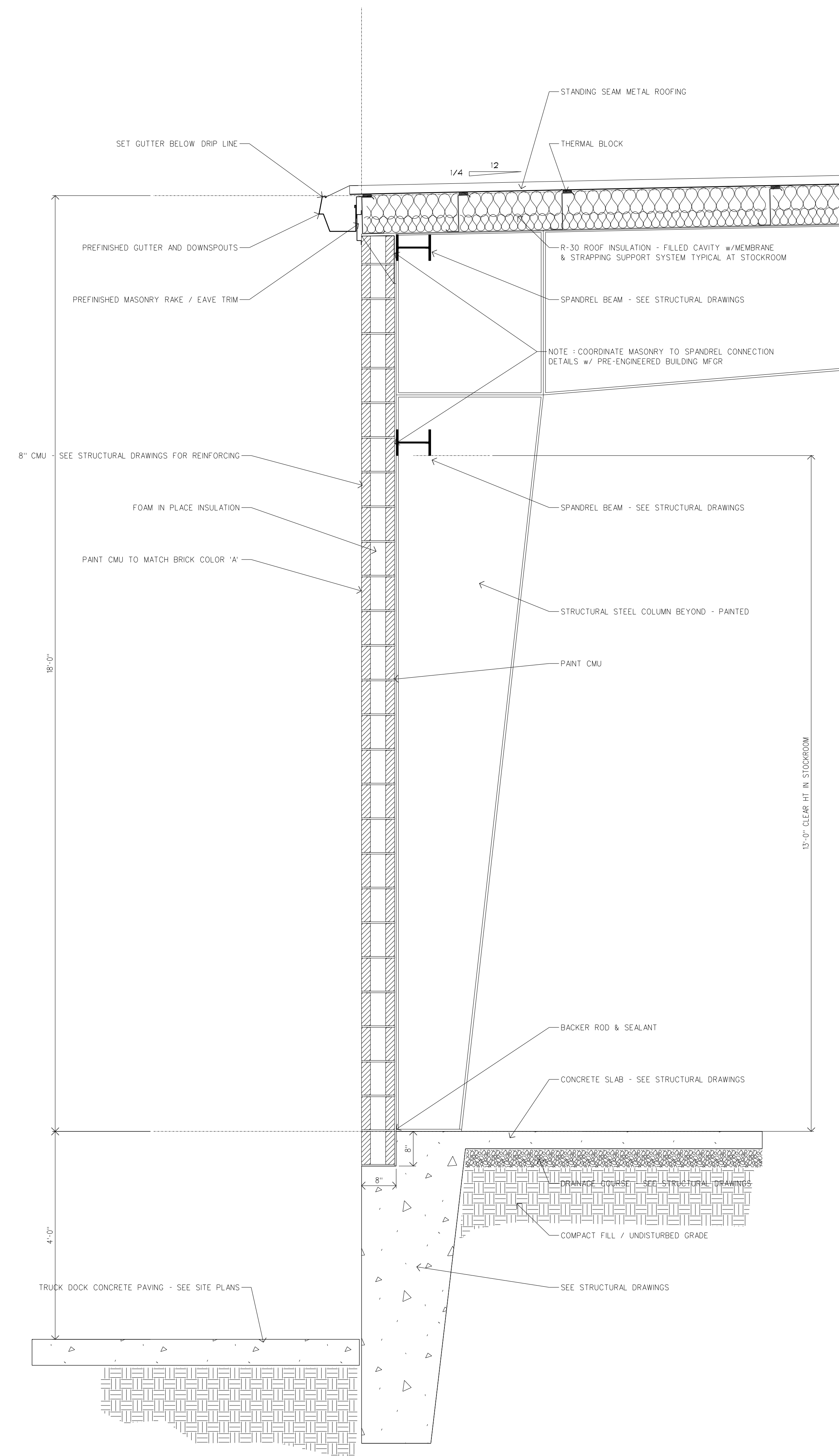
**BIGLOTS! & SHOPS**  
#2689 AND 2660 WEIR PLACE CHESTERFIELD COUNTY VIRGINIA

Date: APRIL 10, 2013

Drawing no. A-502



WALL SECTION AT DOCK / LOW EAVE - REAR WALL 503.2  
SCALE: 3/4" = 1'-0"



WALL SECTION AT LOW EAVE - REAR WALL 503.1  
SCALE: 3/4" = 1'-0"

No.	Date	Description

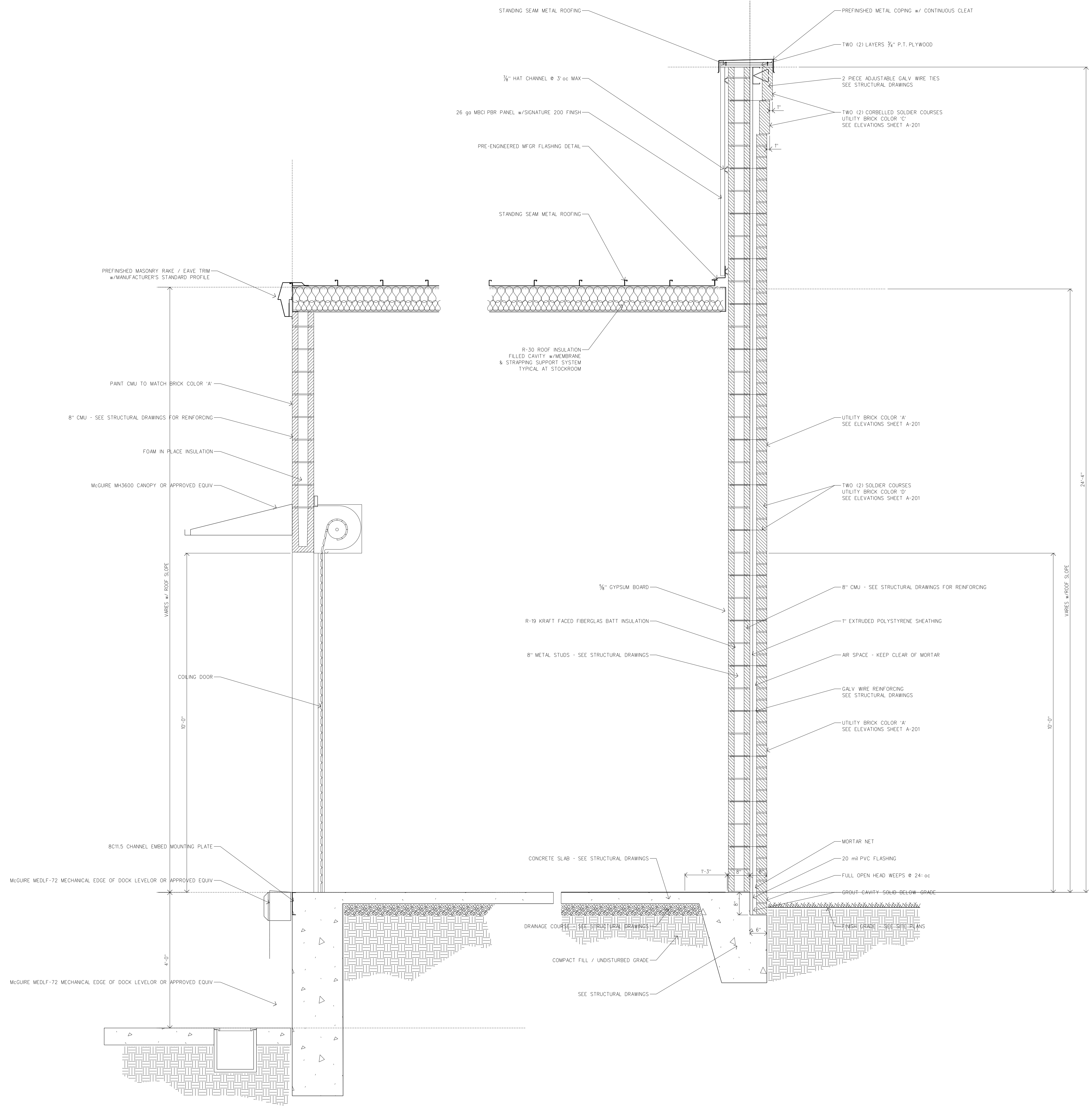


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**BIGLOTS! & SHOPS** VIRGINIA  
#2689 AND 2666 WEIR PLACE CHESTERFIELD COUNTY

Date: APRIL 10, 2013  
Drawing no. A-503





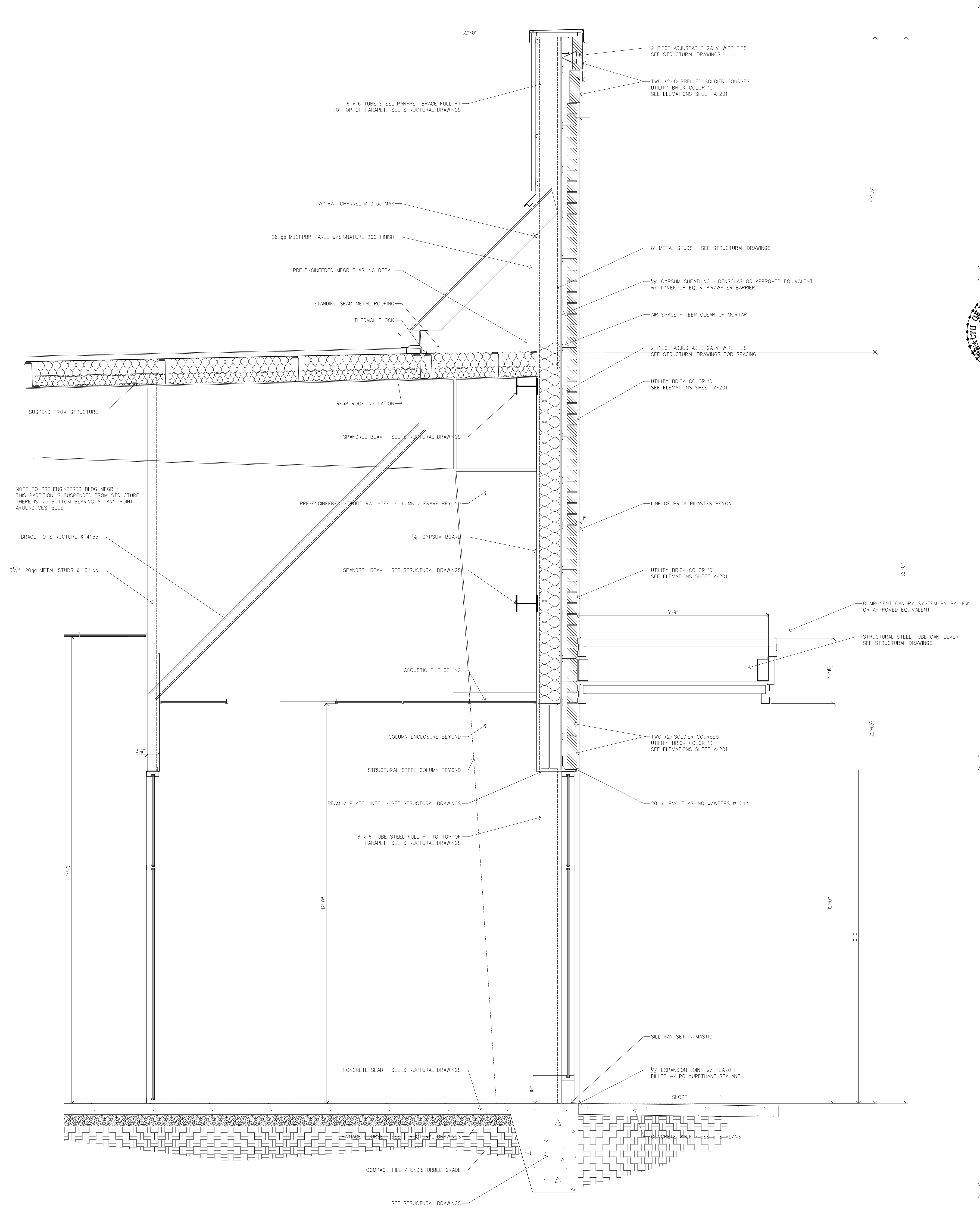
No.	Date:	Description



**MSA** Mark Smith Architect  
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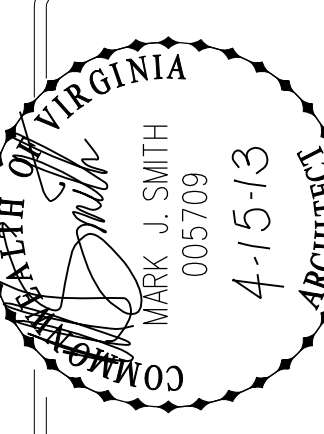
**BIGLOTS! & SHOPS** VIRGINIA  
 #2689 AND 2666 WEIR PLACE CHESTERFIELD COUNTY

Date:	APRIL 10, 2013
Drawing no.	A-504

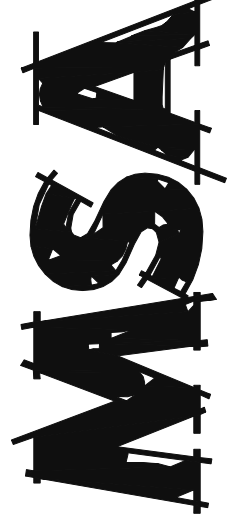


WALL SECTION AT HIGH EAVE - FRONT WALL @ STOREFRONT 505.1  
SCALE: 3/4" = 1'-0"

No.	Date	Description



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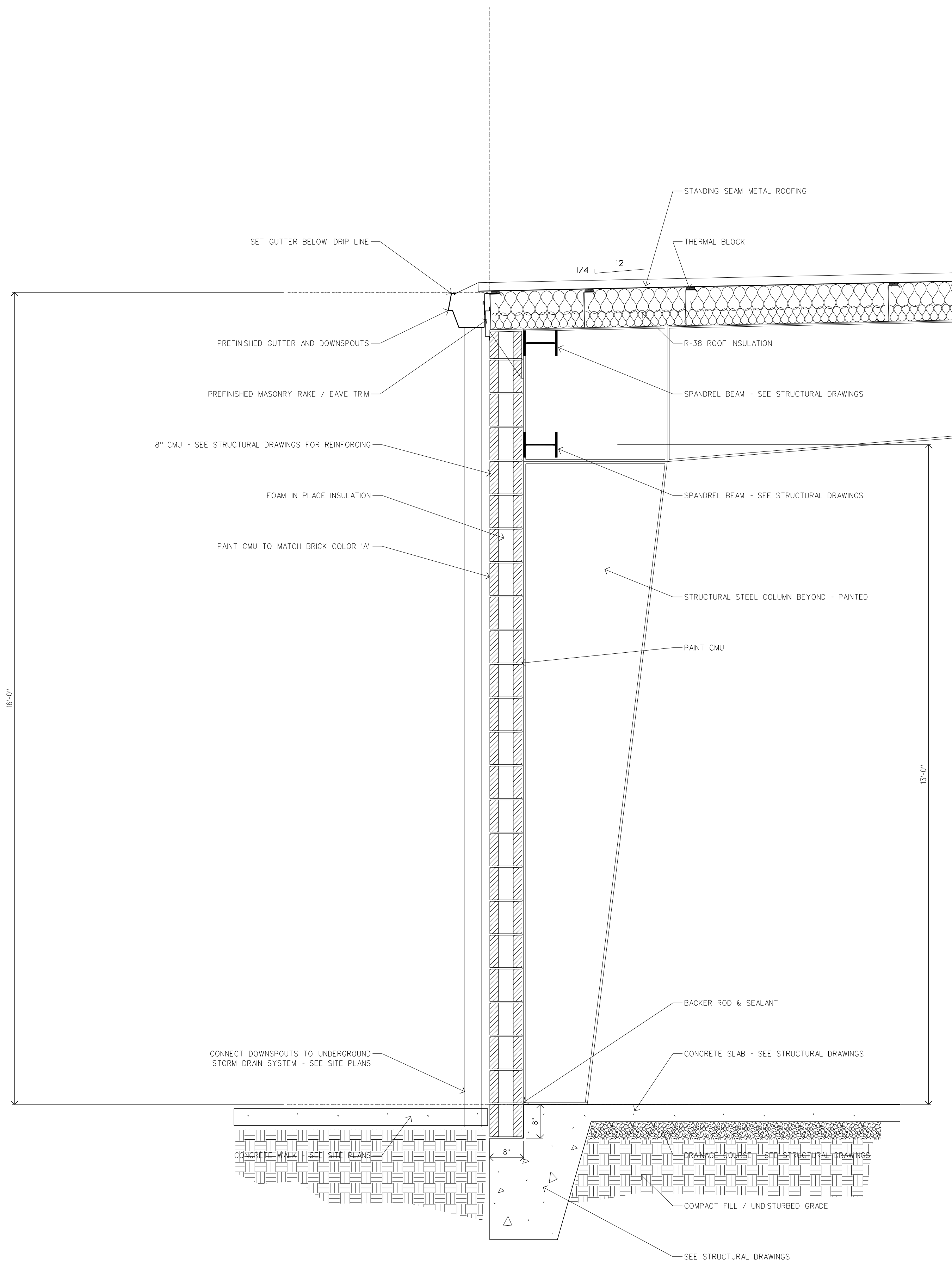
BIGLOTS! & SHOPS  
#2699 AND 2660 WEIR PLACE CHESTERFIELD COUNTY VIRGINIA

Date: APRIL 10, 2013  
Drawing no.

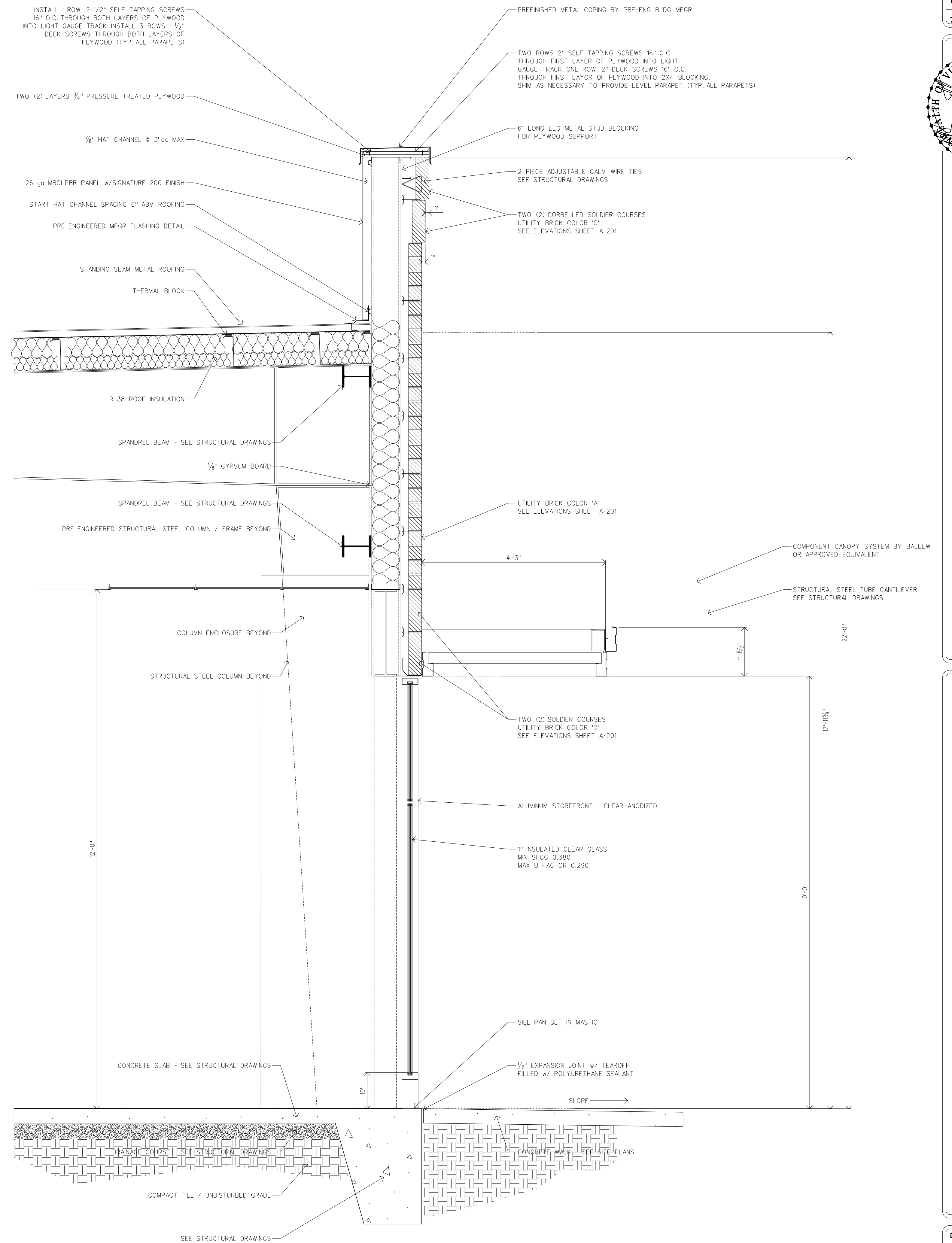
A-505







WALL SECTION AT LOW EAVE - SHOPS REAR WALL 507.2  
SCALE: 3/4" = 1'-0"

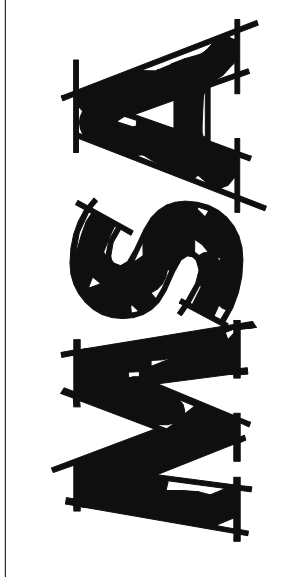


WALL SECTION AT HIGH EAVE - SHOPS FRONT WALL 507.1  
SCALE: 3/4" = 1'-0"

No.	Date	Description



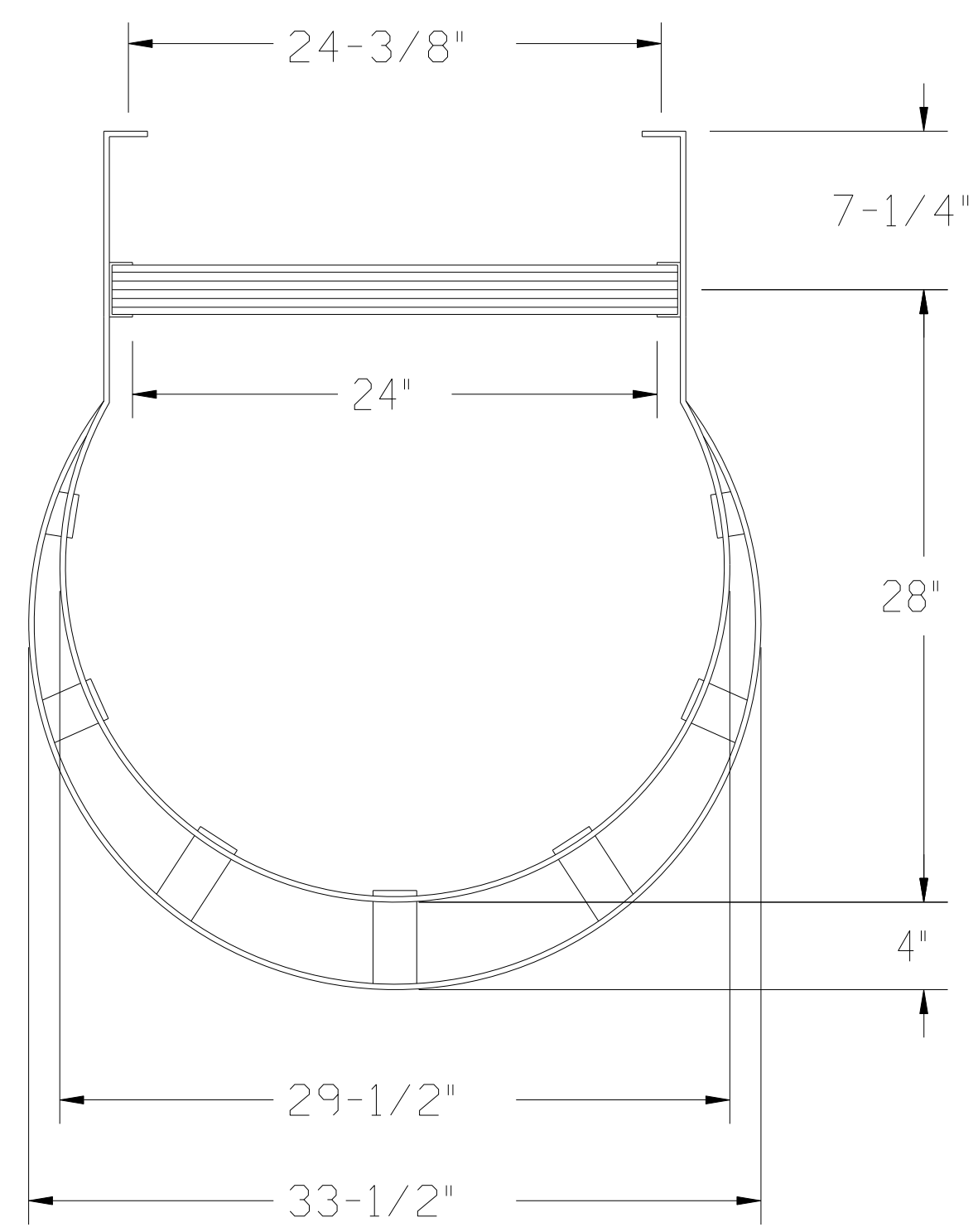
Mark Smith Architect  
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Winterville, North Carolina 28090  
(803) 717-4219 mark@marksmitharchitect.com



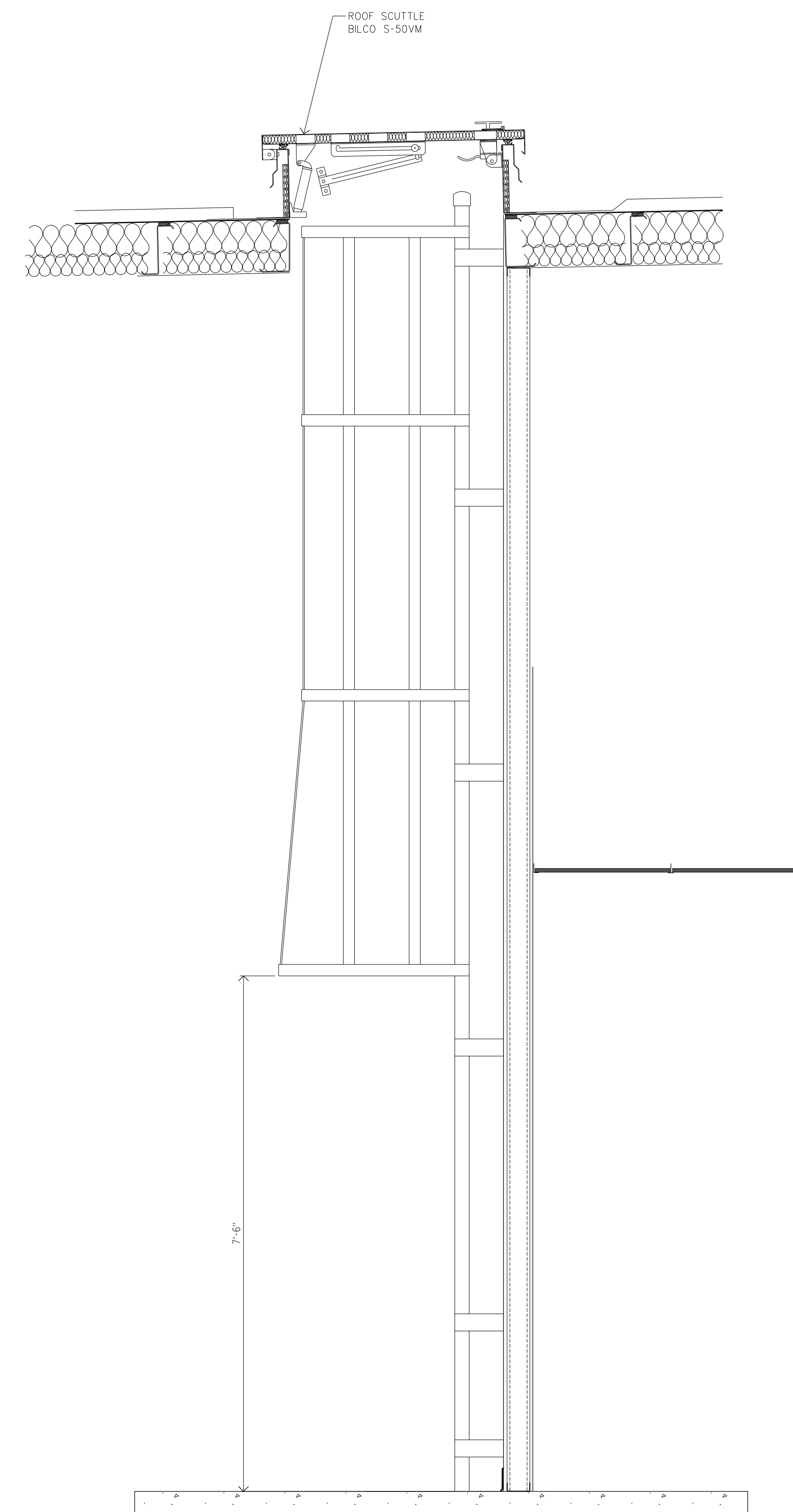
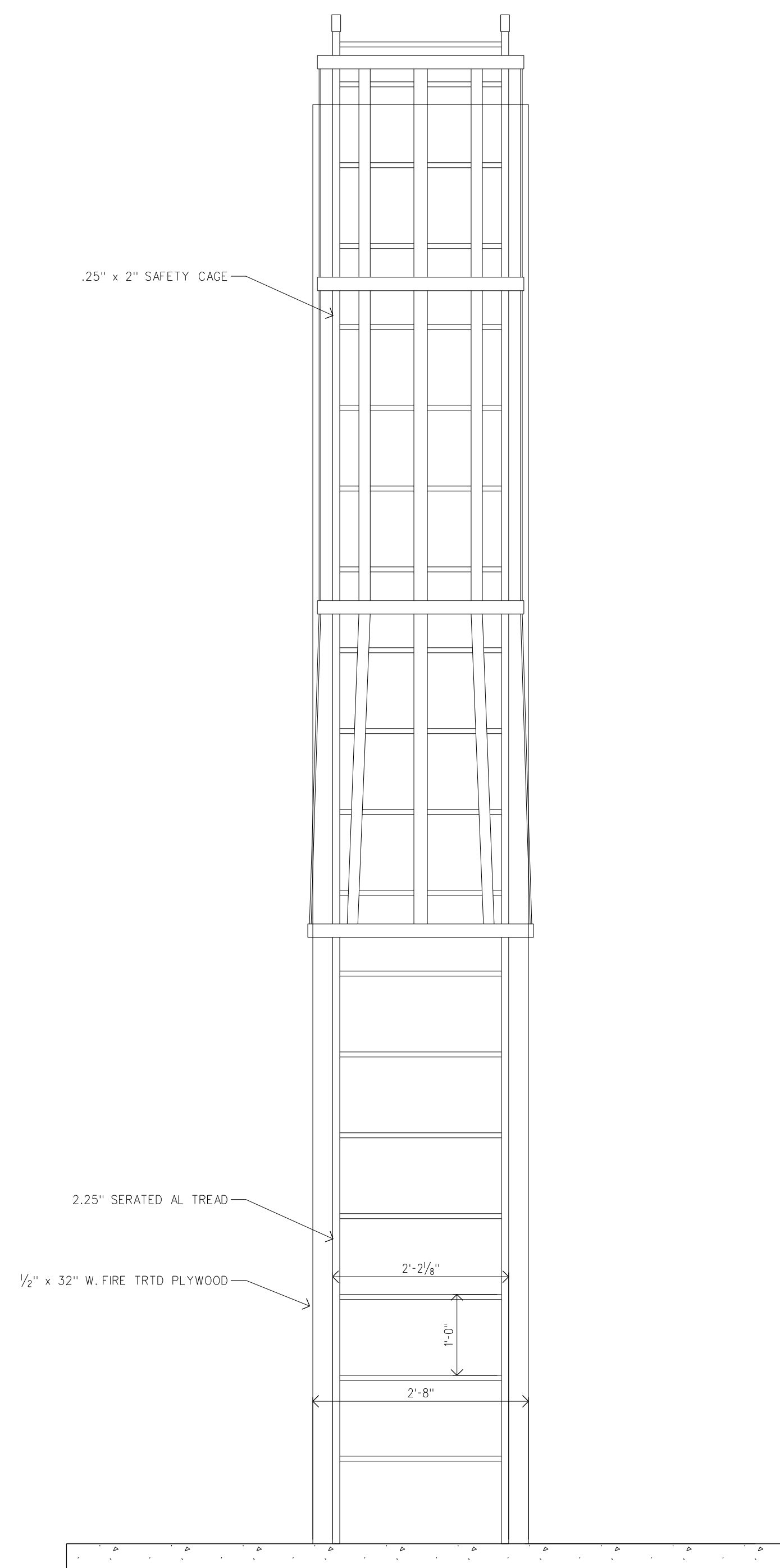
BIGLOTS! & SHOPS  
#2699 AND 2660 WEIR PLACE  
CHESTERFIELD COUNTY VIRGINIA

Date: APRIL 10, 2013  
Drawing no.

A-507



PLAN



SECTION AT ROOF ACCESS LADDER 508.1  
SCALE: 3/4" = 1'-0"

No. Date: Description



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**BIGLOTS! & SHOPS**  
#2689 AND 2666 WEIR PLACE CHESTERFIELD COUNTY VIRGINIA

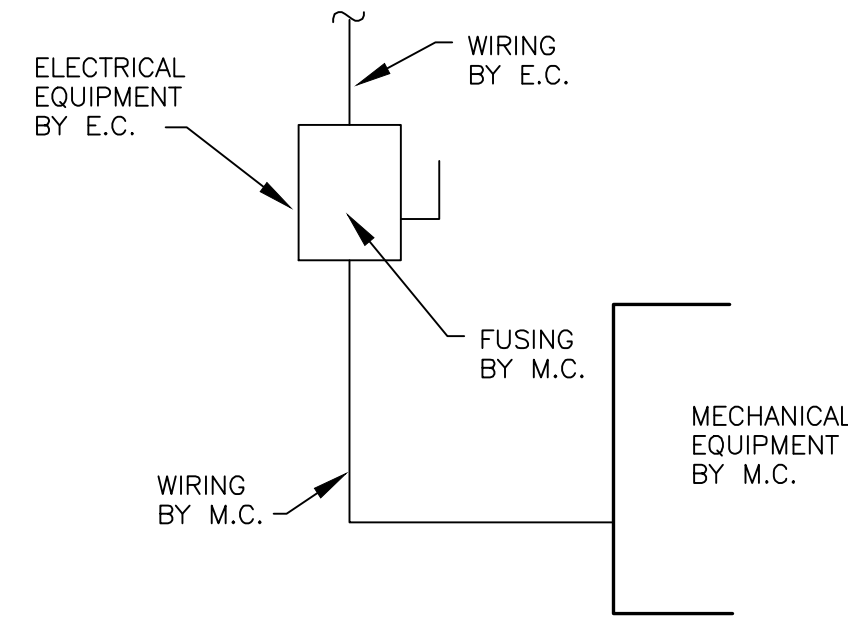
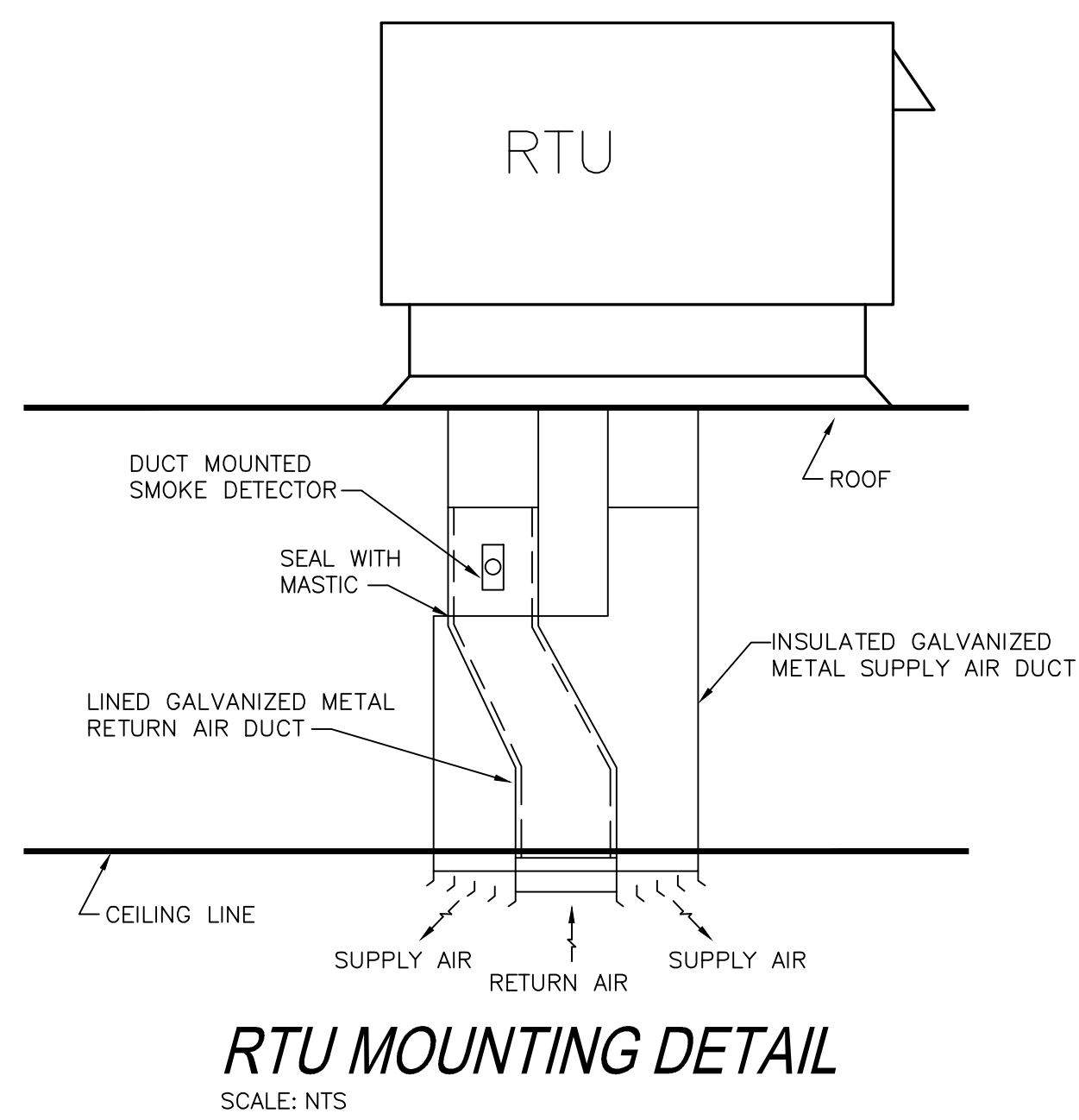
Date: APRIL 15, 2013  
Drawing no.

A-508









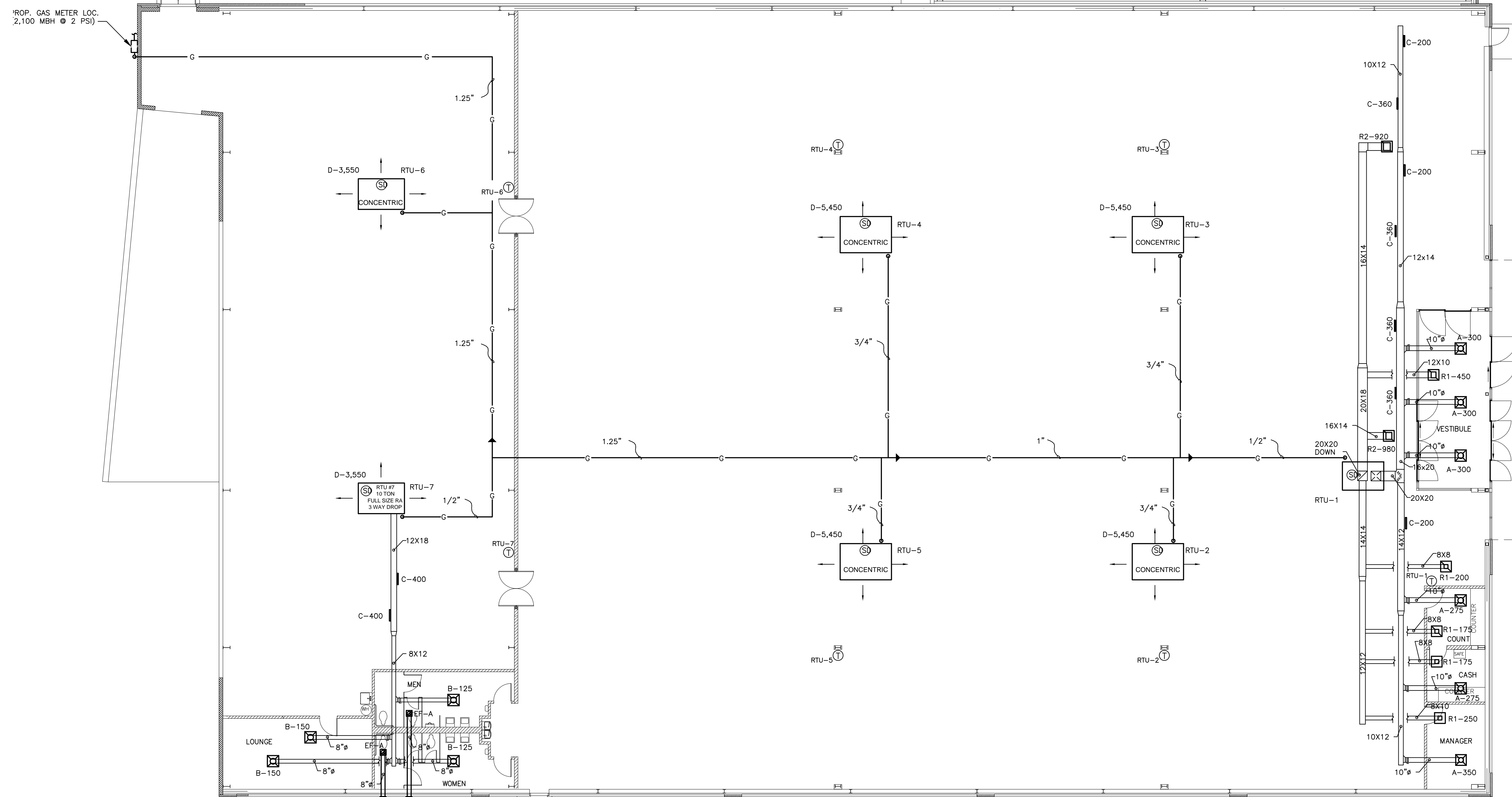
M.C. SHALL REVIEW DRAWINGS E301, E302, E303 & E304 TO BE COME THOROUGHLY FAMILIAR WITH THE MECHANICAL LABOR AND MATERIAL REQUIREMENTS OF THE BUILDING ENERGY MANAGEMENT SYSTEM PROVIDED BY BIG LOTS. ITEMS PROVIDED BY OTHERS TO BE INSTALLED BY M.C. ARE NOT INDICATED ON THIS DRAWING.

- MECHANICAL LEGEND**
- G.C. GEN. CONTR.
  - E.C. ELEC. CONTR.
  - P.C. PLUMB. CONTR.
  - AFF ABOVE FINISH FLOOR
  - AFG ABOVE FINISH GRADE
  - 18x18 WRAPPED RIGID DUCT
  - INSULATED FLEXIBLE DUCT
  - SUPPLY DIFFUSER
  - RETURN AIR GRILLE
  - CEILING EXHAUST GRILLE OR FAN
  - AHU-1 THERMOSTAT & UNIT SERVED.
  - A-400 DIFFUSER TYPE-CFM
  - MANUAL DAMPER
  - DUCT MOUNTED SMOKE DETECTOR
  - FIRE ALARM HORN/STROBE (SEE GENERAL NOTES)
  - CONN. TO EXIST.
  - GAS PIPING
  - FD SPRING LOADED FIRE DAMPER
  - CO2-AHU-1 CO2 SENSOR (500 PPM) & UNIT SERVED
  - TWIST TIMER SWITCH
  - 120V MOTORIZED DAMPER

**GAS SIZING CALCULATIONS**

EQUIPMENT LIST	MBH	QUANTITY	TOTAL MBH
RTU-1	200	1	200
RTU-2,3,4,5	350	4	1,400
RTU-5,6	250	2	500
TOTAL CONNECTED =			2,100
LENGTH OF GAS LINE = 220 FT.			
GAS PRESSURE = 2 PSI			
SIZE OF GAS SERVICE REQUIRED = 1.25 "			

NOTE: ENGINEER SHALL BE NOTIFIED PRIOR TO INSTALLATION OF GAS PIPE IF ANY ONE OF THE ABOVE CALCULATIONS DIFFER FROM THE ACTUAL INSTALLATION REQUIREMENTS. ENGINEER SHALL HAVE OPPORTUNITY TO REVIEW ACTUAL INSTALLATION CONDITIONS AND RE-SIZE GAS SERVICE IF REQUIRED.



**MECHANICAL PLAN**  
SCALE: 3/32"=1'-0"

No.	Description

**ENGINEERING**  
D. Wilson P.E.  
No. 037459  
4/12/13

4791-A, NC Hwy 33 East, Greenville, NC 27638  
E-Mail Address: gennor@biglots.com  
Fax: (252) 439-0338

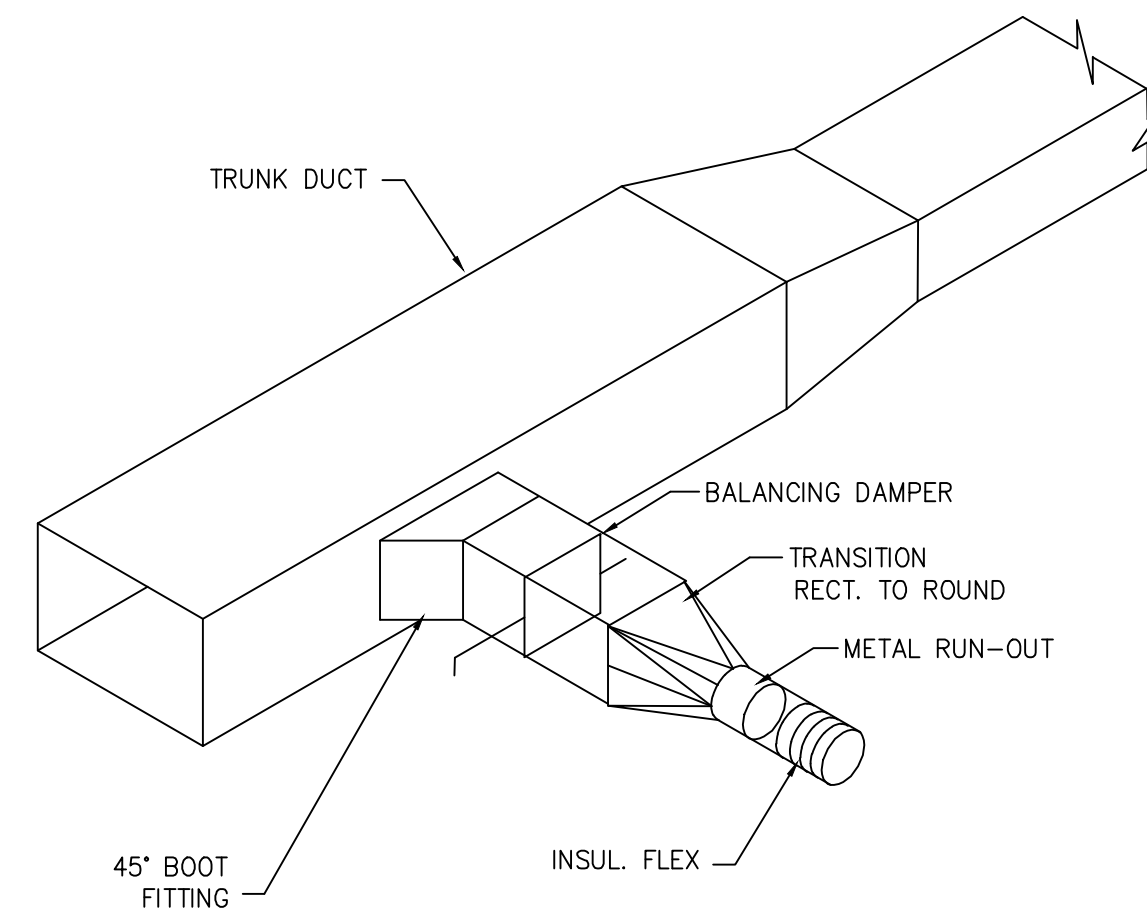
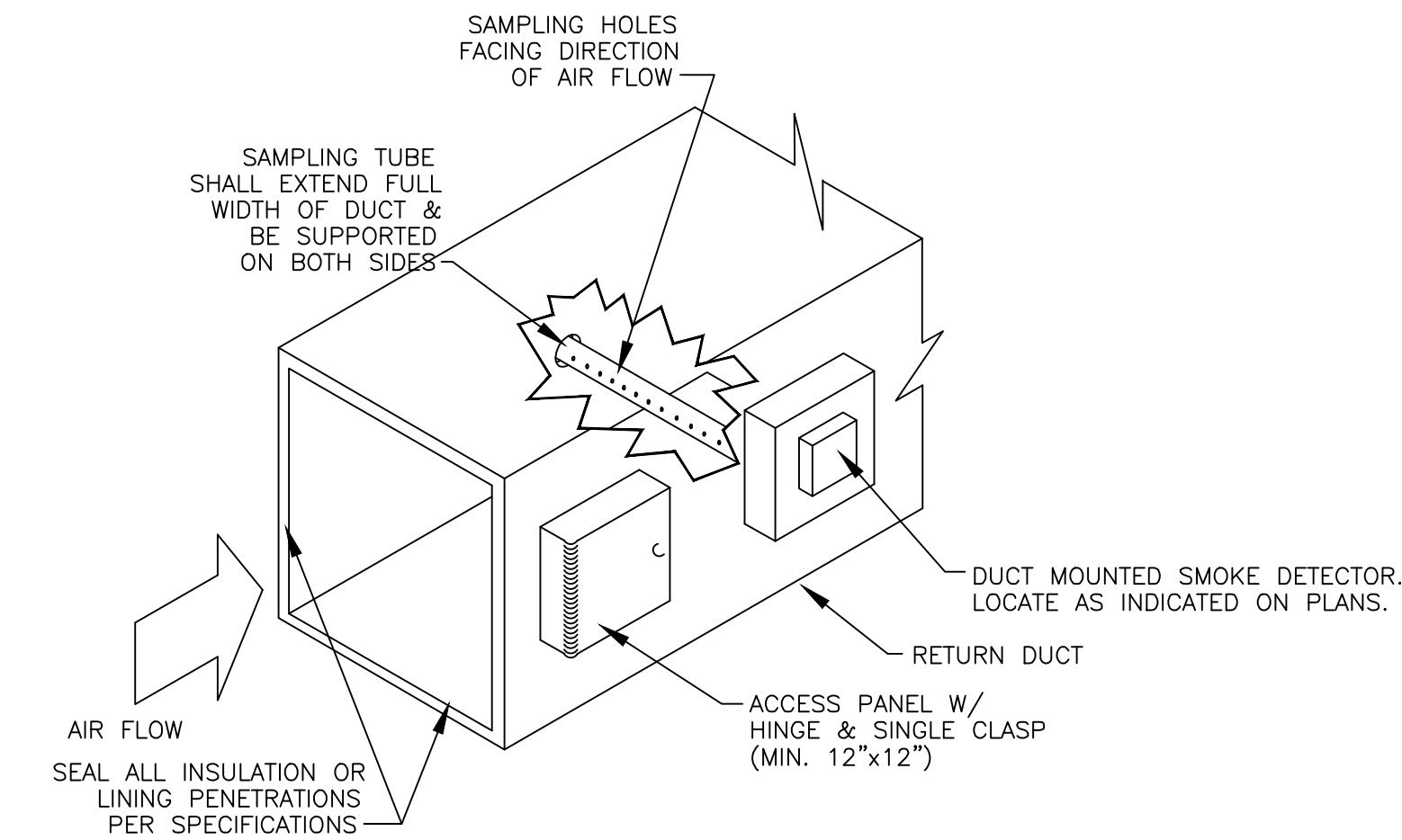
**MSA**  
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Winterville, North Carolina 28990  
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BIG LOTS AND FOUR LEASE SPACES  
BIG LOTS  
2660 WEIR PLACE CHESTER VIRGINIA

Date: APR 12, 2013  
Drawing no.  
**M101**

**MECHANICAL GENERAL NOTES:**

- ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE BUILDING CODE & CONTR. SHALL NOTIFY ENGINEER IN WRITING REGARDING ANY CODE DISCREPANCIES FOUND ON PLANS. CONTR. IS RESPONSIBLE FOR PERMITS, INSPECTIONS AND FEES.
- SYSTEMS INDICATED ON PLANS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR SHALL PROVIDE NECESSARY HANGERS, FASTENERS ETC. TO PROVIDE A COMPLETE AND WORKING SYSTEM.
- CONTRACTOR SHALL SEAL ALL DUCTWORK WITH A PAINT ON MASTIC. ALL WALL PENETRATIONS SHALL BE SEALED AIR TIGHT.
- CONTRACTOR SHALL FIELD MEASURE ACTUAL INSTALLED CONDITIONS AND COORDINATE DUCT SIZES PRIOR TO FABRICATION OR INSTALLATION OF EQUIP. & DUCTWORK.
- CONTRACTOR SHALL COORDINATE ALL DUCTWORK, DIFFUSER AND GRILLE LOCATION WITH OTHER CEILING MOUNTED DEVICES SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN.
- CONTRACTOR SHALL INSTALL BALANCING DAMPERS IN EACH BRANCH DUCT TO PROVIDE PROPER AIRFLOW TO EACH ZONE.
- LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 4'-0" A.F.F. IN LOCATION INDICATED ON PLANS.
- ALL DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.
- CONTRACTOR SHALL COORDINATE ALL ROOF AND FLOOR PENETRATION LOCATIONS AND SIZES.
- FABRICATE AND INSTALL ALL DUCT WORK PER SMACNA 1.5" W.C. PRESSURE. ALL ELBOWS SHALL HAVE 1.5R CENTERLINE. ALL DUCT UNDER SLAB SHALL BE FIBERGLASS.
- ALL FLEXIBLE ROUND DUCT SHALL BE PRE-INSULATED DOUBLE WALLED WITH SPIRAL METAL RIB, AND SHALL HAVE MIN. RESISTANCE VALUE OF R-6. MAXIMUM LENGTH SHALL BE 14'-0" UNLESS SHOWN SPECIFICALLY OTHERWISE IN PLAN. SECURE ENDS WITH NYLON BANDS AND TAPE.
- ALL SUPPLY AND RETURN DUCT SHALL BE INSULATED WITH 2" 1.0 LB. OR 3" 1/2 LB. DENSITY FIBERGLASS WRAP. FIRST 15'-0" FROM FAN DISCHARGE OR INTAKE SHALL BE LINED.
- PROVIDE FLEXIBLE CONNECTORS ON SUPPLY AND RETURN CONNECTIONS TO HVAC UNITS.
- CONDENSATE PIPE SHALL BE SCHEDULE 40 PVC OR HARD DRAWN COPPER. INSTALL WITH PROPER SLOPE AND NO SAGS. COPPER PIPE SHALL BE INSULATED WITH 1" THICK CLOSED CELL INSULATION.
- ALL DUCTWORK AND PIPING SHALL BE CONCEALED ABOVE CEILINGS, TRUSSES AND SOFFITS EXCEPT IN MECHANICAL ROOMS, UTILITY PLATFORMS AND WHERE NOTED OTHERWISE.
- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL WIRING & CONNECTIONS TO HIS EQUIPMENT. COORD. FEEDER AND FUSE SIZES FOR SPECIFIC EQUIPMENT PROVIDED WITH ELECTRICIAN. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL WORK REQUIRED TO PROVIDE FEEDERS FOR EQUIPMENT THAT EXCEEDS THE AMP RATINGS LISTED IN THE SCHEDULE.
- ALL GAS PIPE AS SHOWN SHALL BE SCHEDULE 40 BLACK STEEL PAINTED OSHA YELLOW OR FLEXIBLE STAINLESS STEEL LABELED "NATURAL GAS".
- MECHANICAL CONTRACTOR MAY USE ROUND DUCT OF EQUIV. AREA IN LIEU OF RECTANGULAR. COORD. ROUND DUCT SIZES W/ ENGR. USE INSULATED DOUBLE WALLED SPIRAL DUCT WITH PAINT GRIP FINISH WHERE DUCT IS TO BE EXPOSED.
- DIFFUSERS WILL BE PROVIDED AND INSTALLED BY OWNER. OWNER SHALL PROVIDE ENGR. WITH AN AIR BALANCE REPORT INDICATING INITIAL AND FINAL READINGS AT EACH DIFFUSER AND TOTAL CFM PER UNIT, INCLUDE IN DOCUMENTS AT JOB CLOSEOUT.
- MECHANICAL CONTRACTOR SHALL LABEL ALL EQUIPMENT WITH ENGRAVED PLASTIC LAMINATE, SCREWED TO PIECE OF EQUIPMENT.
- UNIT CONTROLLER OR PROGRAMMABLE THERMOSTAT SHALL HAVE 7 DAY PROGRAMING, TIMED OVER-RIDE AND THE ABILITY TO RUN FANS IN OCCUP. MODE & CYCLE FANS IN UN-OCCUP. MODE.
- MECHANICAL CONTRACTOR SHALL CHANGE UNIT FILTERS AFTER A TWO WEEK RUN TIME. AND SHALL LEAVE ONE CHANGE OF FILTERS FOR OWNER TO USE FOR NEXT FILTER CHANGE.
- MECHANICAL CONTRACTOR SHALL NOT ALLOW DUCTWORK TO CONTACT LAY-IN LIGHT FIXTURES. ROUTE ACCORDINGLY.
- MECHANICAL CONTRACTOR SHALL INSTALL DUCT MOUNTED SMOKE DETECTORS WHERE INDICATED ON PLANS. COORDINATE WITH E.C. M.C. IS ALSO RESPONSIBLE FOR PROVIDING AND INSTALLING ALL ASSOCIATED DUCT ACCESS DOORS.



**MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT**  
**METHOD OF COMPLIANCE:**

PRESCRIPTIVE  ENERGY COST BUDGET

CLIMATE ZONE: IBC - 4  
THERMAL ZONE  
WINTER DRY BULB: 18.8°F  
SUMMER DRY BULB: 91.7°F  
INTERIOR DESIGN CONDITIONS  
WINTER DRY BULB: 70°F  
SUMMER DRY BULB: 75°F  
RELATIVE HUMIDITY: 50%

BUILDING HEATING LOAD: 735.0 MBH  
BUILDING COOLING LOAD: 1,050.0 MBH  
MECHANICAL SPACE CONDITIONING SYSTEM

UNITARY  
DESCRIPTION OF UNIT: ROOF-TOP GAS PACK  
HEATING EFFICIENCY: 80% AFUR  
COOLING EFFICIENCY: 12.0 EER  
HEAT OUTPUT OF UNIT: SEE SCHEDULE  
COOLING OUTPUT OF UNIT: SEE SCHEDULE

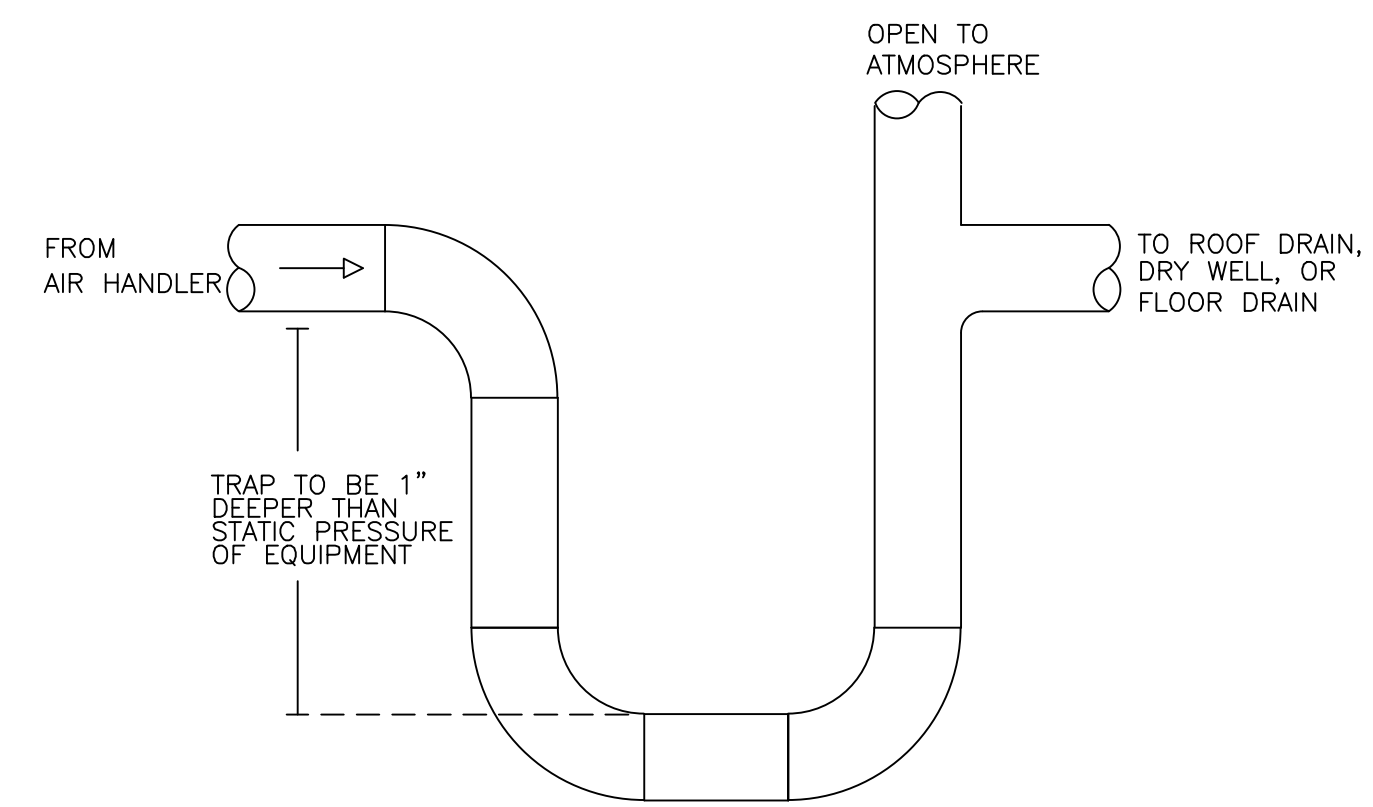
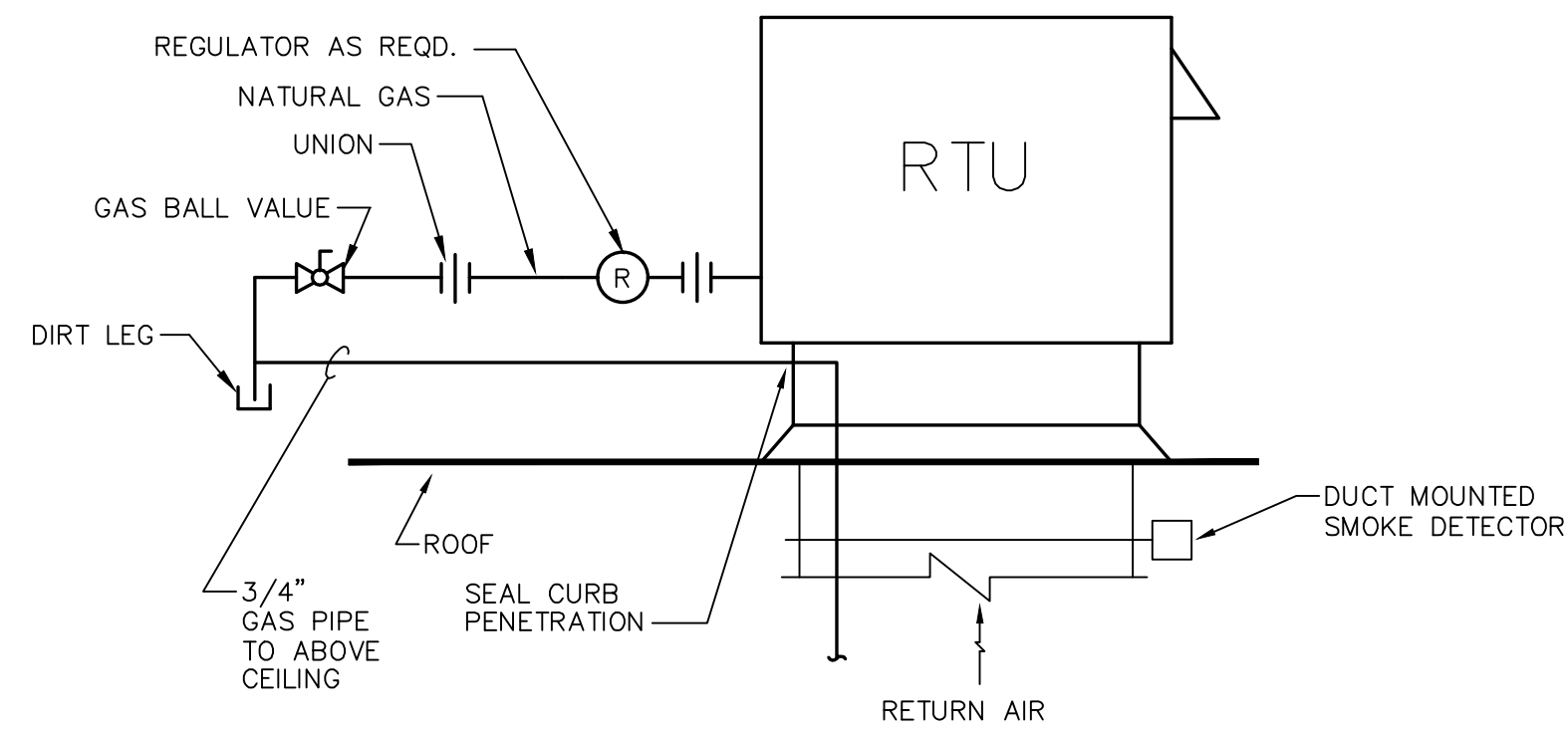
BOILER  
TOTAL BOILER OUTPUT: (if oversized, state reason)  
CHILLER  
TOTAL CHILLER OUTPUT: (if oversized, state reason)

LIST EQUIPMENT EFFICIENCIES  
EQUIPMENT SCHEDULES WITH MOTORS (Not used for mechanical systems)  
MOTOR HORSEPOWER:  
NUMBER OF PHASES:  
MINIMUM EFFICIENCY:  
MOTOR TYPE:  
# OF POLES:

**DESIGNER STATEMENT:**

To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the current Energy Conservation Code.

SIGNED: D. Wilson POU  
NAME: D. WILSON POU, P.E.  
TITLE: PRESIDENT



VENTILATION CALCULATIONS				
OCCUPANCY TYPE	SD. FT.	# OF OCCUPANTS	CFM/(SF OR PERSON)	TOTAL O.A. CFM
RETAIL STORE	22,100	332	7.5 PER PERSON	2,490
STORAGE ROOM	6,850	22	.12 PER SF	822
TOTAL REQUIRED FOR BUILDING				3,312
TOTAL PROVIDED FOR BUILDING				3,400

AIR DISTRIBUTION						
MARK	MAX. CFM	FRAME	NECK SIZE	MODEL	MANUF.	REMARKS
A	400	T-BAR	10"φ	SMD	PRICE	1,2,3,5,7
B	200	T-BAR	8"φ	SMD	PRICE	1,2,3,5,7
C	400	DUCT	6X24	HCD	PRICE	2,3,5,7
D	6000	DUCT	57X57	CSR0-150	PRICE	2,4,5,6
R1	550	T-BAR	12x12	80TB	PRICE	1,2,4,5,6
R2	1400	T-BAR	22x22	80TB	PRICE	1,2,4,5,6

- ALL GRILLES SHALL HAVE 24"x24" FACE.
- NC SHALL NOT EXCEED NC 25.
- MAX. SP SUPPLY = 0.10" W.G.
- MAX. SP RETURN = 0.05" W.G.
- ALL RUN-OUTS AND FLEX TO BE EQUAL TO NECK SIZE FOR SUPPLY.
- PAIN INSIDE PAN FLAT BLACK.
- CONTRACTOR SHALL INSULATE BACK OF SUPPLY GRILLE PAN.

GAS PACK SCHEDULE																
MARK	O.A.	SUPPLY FAN				COOLING			HEATING			REMARKS				
		CFM	EXT SP.	MOTOR HP	VOLT/PH	MCA	MOCP	NOMINAL TQ(MBH)	NOMINAL SHQ(MBH)	EER	FUEL		MAX MBH INPUT	MIN MBH OUTPUT	STAGES OF HEAT	AFUE%
RTU-1	300	3,000	0.75	3.75	480/3	16.6	30	90.0	63.0	12.0	NATURAL	200.0	160.0	2	80%	1,2,3,4
RTU-2	550	6,000	0.75	3.00	480/3	36.0	45	180.0	126.0	12.0	NATURAL	350.0	284.0	2	80%	1,2,3,4
RTU-3	550	6,000	0.75	3.00	480/3	36.0	45	180.0	126.0	12.0	NATURAL	350.0	284.0	2	80%	1,2,3,4
RTU-4	550	6,000	0.75	3.00	480/3	36.0	45	180.0	126.0	12.0	NATURAL	350.0	284.0	2	80%	1,2,3,4
RTU-5	550	6,000	0.75	3.00	480/3	36.0	45	180.0	126.0	12.0	NATURAL	350.0	284.0	2	80%	1,2,3,4
RTU-6	450	4,000	0.75	3.75	480/3	24.9	30	120.0	84.0	12.0	NATURAL	250.0	200.0	2	80%	1,2,3,4
RTU-7	450	4,000	0.75	3.75	480/3	24.9	30	120.0	84.0	12.0	NATURAL	250.0	200.0	2	80%	1,2,3,4

- PROVIDE WITH COIL GUARD OPTION.
- ANY WIRING SHALL BE DONE BY A LICENSED ELECTRICAL SUB-CONTRACTOR.
- PROVIDE WITH CONTROL TRANS. AS REQUIRED.
- PROVIDE WITH PROG. TSTAT WITH 2 HOUR OVER-RIDE.

FAN SCHEDULE									
SYMBOL	MANUF./MODEL	SERVICE	TYPE ASSEMBLY	CFM	SP (IN. W.G.)	DRIVE TYPE	WATTS	VOLT/PH	REMARKS
EF-A	GREENHECK/SP-A200	EXHAUST	CABINET	225	.125	DIRECT	48.2	120/1	1,2,3

- BACKDRAFT DAMPER.
- UNIT MOUNTED DISCONNECT SWITCH.
- ROUTE 10" DUCT TO EXTERIOR WALL, PROVIDE WITH WALL CAP.
- PROVIDE WITH BACKDRAFT DAMPER, FAN GUARD AND DISCHARGE HOOD.
- EQUALS BY CARNES, PENN. IIG AND BROAN ARE ACCEPTABLE.

No.	Description
Date:	

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BIG LOTS AND FOUR LEASE SPACES  
**BIG LOTS**  
2650 WEIR PLACE CHESTER VIRGINIA

Date: APR 12, 2013  
Drawing no. **M201**  
108 NO. 5518000

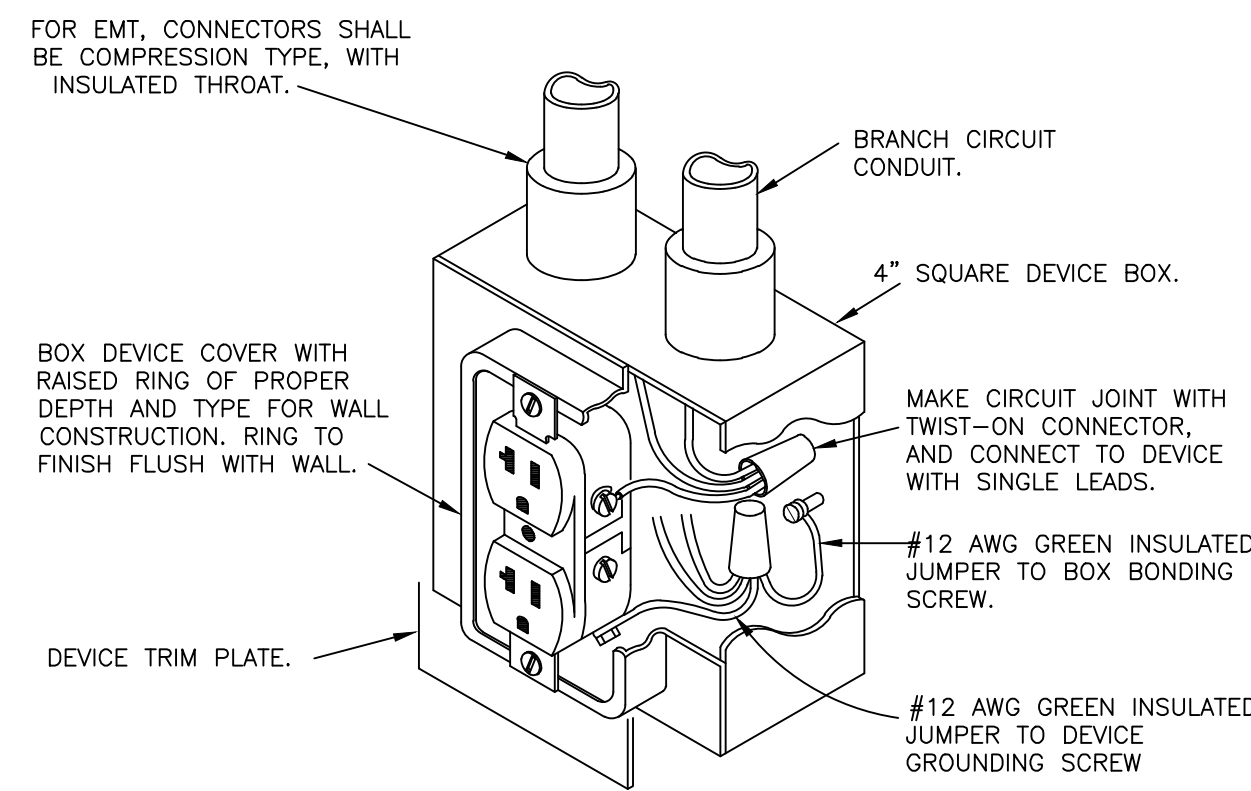
THIS DRAWING IS THE PROPERTY OF ENGINEERING SOURCE OF NC, P.A. THIS DRAWING IS NOT TO BE COPIED IN WHOLE OR IN PART. THIS DRAWING OR THE INFORMATION HEREON IS NOT TO BE USED ON ANY OTHER PROJECT AND MUST BE RETURNED TO ENGINEERING SOURCE OF NC, P.A. UPON REQUEST. DO NOT SCALE THESE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.

**ELECTRICAL NOTES:**

- DO NOT SCALE THESE DRAWINGS; REFER TO LARGEST SCALE ARCHITECTURAL PLANS.
- THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT INTENDED TO SHOW MINOR DETAILS AND EXACT LOCATIONS. DESIGN ADJUSTMENTS SHALL BE ANTICIPATED BY THE CONTRACTOR TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH CURRENT NEC/NFPA 70. CONTRACTOR SHALL NOTIFY ENGINEER REGARDING ANY CODE DISCREPANCIES SHOWN ON PLAN. ANY PERMIT OR INSPECTION FEES ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- CONTRACTOR SHALL INSTALL, GROUND AND BOND SYSTEM PER THE CURRENT NEC.
- CONTRACTOR SHALL NOT PUT MORE THAN SIX (6) DUPLEX RECEPTACLES ON ANY GIVEN 1P-20A CIRCUIT UNLESS SHOWN OTHERWISE.
- MINIMUM WIRE SIZE SHALL BE #12 AWG., MINIMUM CONDUIT SIZE SHALL BE 3/4".
- CONTRACTOR SHALL COORDINATE TELEPHONE AND DATA OUTLETS REQUIRED WITH OWNER PRIOR TO GYP. BOARD BEING INSTALLED.
- HALLWAY AND MAINTENANCE RECEPTACLES SHALL NOT BE CIRCUITED WITH OFFICE OR OTHER GENERAL PURPOSE RECEPTACLES.
- ELECTRICAL CONTRACTOR SHALL PROVIDE HACR RATED CIRCUIT BREAKERS ON ALL HVAC EQUIPMENT.
- CONDUCTORS SHALL BE TYPE THHN, THWN, OR THW. BRANCH CIRCUIT CONDUCTOR SHALL NOT BE SMALLER THAN NO. 12 AWG., EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. HOME RUNS ORIGINATING MORE THAN 80' AT 120V FROM PANEL LOCATION SHALL BE NO. 10 AWG MINIMUM SIZE. WIRES NO. 10 AWG AND SMALLER SHALL BE SOLID; WIRES NO. 8 AWG AND LARGER SHALL BE STRANDED. PROVISIONS OF SECTION 210-5 COLOR CODE, NEC, SHALL BE STRICTLY COMPLIED WITH AND BE CONSISTENT THROUGHOUT ENTIRE SYSTEM.
- ALL CIRCUITS SHALL BE PROVIDED WITH AN INSULATED EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH CURRENT NEC TABLE 250-122. HASHMARK FOR GROUNDING CONDUCTOR IS NOT INDICATED ON THESE DRAWINGS. RACEWAY SHALL NOT BE USED AS EQUIPMENT GROUND.
- IN ADDITION TO MECHANICAL FASTENING TO CEILING TRACK, SUPPORT LIGHT FIXTURES AT EACH CORNER INDEPENDENTLY OF SUSPENDED CEILING WITH 12 GAUGE WIRE, CONNECT TO STRUCTURAL SYSTEM OF BUILDING.
- ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED. ALL EMPTY CONDUIT SHALL HAVE A PULL WIRE.
- SERVICE ENTRANCE CONDUCTORS SHALL BE IN CONDUIT (RIGID OR PVC). EXTERIOR CONDUIT EXPOSED ABOVE SLAB SHALL BE RIGID. INTERIOR CONDUIT EXPOSED SHALL BE ELECTRICAL METALLIC TUBING (EMT). EMT SHALL BE COLD-ROLLED STEEL TUBING W/ A COATING ON THE OUTSIDE AND PROTECTED ON THE INSIDE BY A ZINC, ENAMEL, OR EQUIVALENT CORROSION RESISTANT COATING AND CONFORMING TO THE REQUIREMENTS OF ANSI C 80.3-1996 OR LATER EDITION. ALL UNDERGROUND CONDUIT SHALL BE UL LISTED SCHD 40 PVC CONFORMING TO ARTICLES 352 & 300 OF THE NEC. WHERE SCHD 40 PVC IS INSTALLED BELOW GRADE OR UNDER FLOOR SLABS, THE ELBOWS REQUIRED TO TURN THE RACEWAY UP INTO CABINETS, EQUIPMENT, ETC., SHALL BE OF RIGID STEEL AND SHALL CONTINUE AS RIGID STEEL TO THE CABINET, EQUIPMENT, ETC. FEEDER CIRCUITS SHALL BE IN CONDUIT. E.C. MAY USE M.C. CABLE FOR CONCEALED BRANCH CIRCUITS.
- ALL JUNCTION OR DEVICE BOXES SHALL HAVE A COVER.
- ALL 1P-20A CIRCUITS SHALL BE 2-#12 & 1-#12G IN 3/4" U.N.O.
- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH ALL VOLUMES OF THE STATE BUILDING CODE, INSPECTORS HAVING JURISDICTION, AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
- EACH PIECE OF ELECTRICAL GEAR, EQUIPMENT, ETC., SHALL BEAR A "UL" LABEL.
- METAL ROOF DECKING SHALL NOT BE PENETRATED TO SUPPORT ELECTRICAL ITEMS.
- ALL EMERGENCY AND EXIT LIGHTS SHALL BE CONNECTED TO THE UNINTERRUPTED SIDE OF THE LOCAL LIGHTING CIRCUIT.
- INSTALL ENGRAVED PHENOLIC LABELS ON ALL ELECTRICAL GEAR, DISCONNECTS, ETC. FASTEN WITH SCREW FASTENERS.
- E.C. SHALL INSTALL HEAVY DUTY NEMA-1 DISCONNECTS AT ALL INTERIOR LOCATIONS INDICATED AND HEAVY DUTY NEMA-3R DISCONNECTS AT ALL EXTERIOR LOCATIONS INDICATED ON THESE DRAWINGS.
- VERIFY WITH OWNER LOCATION/TYPE OF ALL FIXTURES, PANEL BOXES, OUTLET PLACEMENT, ETC. BY HOLDING AN ELECTRICAL WALKTHROUGH ON THE BUILDING SITE ONCE FRAMING IS COMPLETED.
- ELECTRICAL BOXES INSTALLED IN U.L. RATED WALLS SHALL BE LOCATED A MINIMUM OF 2'-0" FROM ANY OTHER ELECTRICAL BOX IN THAT WALL.
- LIGHTING SWITCHES, RECEPTACLES AND/OR DATA OUTLETS SHALL NOT BE MOUNTED BACK TO BACK IN ANY WALL.
- CABLE LOCATED IN PLENUMS SHALL BE PLENUM-RATED.
- E.C. SHALL INSTALL COMPLY WITH ANSI A117.1 FOR OUTLET AND CONTROL SWITCH MOUNTING HEIGHTS FOR ADA ACCESSIBILITY.

DEVICE	MT HEIGHT	TO
PANEL BOARDS	6'-6" AFF	TOP
TOGGLE SWITCH (GYPSBOARD)	4'-0" AFF	☐
TOGGLE SWITCH (MASONRY)	4'-0" AFF	TOP
RECEPTACLES	1'-6" AFF	☐
RECEPTACLES (AT BASE CABINETS)	7" ACT	☐
VOICE/DATA OUTLETS	1'-6" AFF	☐
FIRE ALARM PULL STATIONS	4'-6" AFF	TOP
EMERGENCY LIGHTS	12" BFC	TOP
STROBE/HORNS	12" BFC OR 96" AFF MAX	TOP
REMOTE ANNUNCIATOR PANEL	4'-8" AFF	☐
THERMOSTATS	4'-0" AFF	☐
MANUAL SHUTDOWN SWITCHES (HVAC)	4'-0" AFF	☐

NOTES:  
 1) TYPICAL MOUNTING HEIGHTS ARE LISTED U.N.O.  
 2) BFC=BELOW FINISHED CEILING, ACT=ABOVE CABINET TOP  
 3) THE ABOVE LISTED EQUIPMENT IS SHOWN FOR CLARITY OF MOUNTING HEIGHT ONLY. ALL DEVICES MAY NOT BE USED ON THIS PROJECT OR SHOWN ON THESE DRAWINGS.

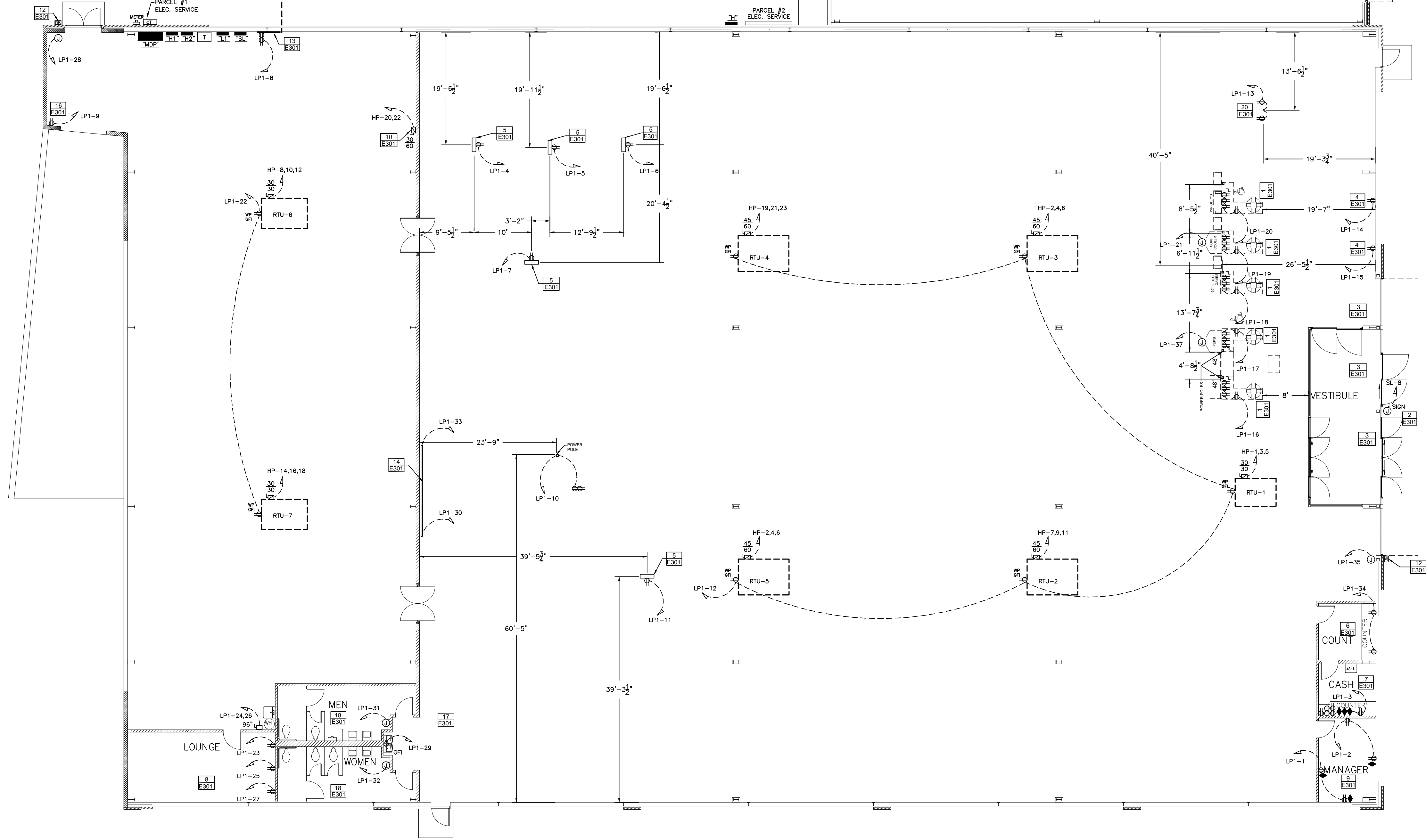


**TYPICAL DUPLEX RECEPTACLE INSTALLATION**  
SCALE: NONE

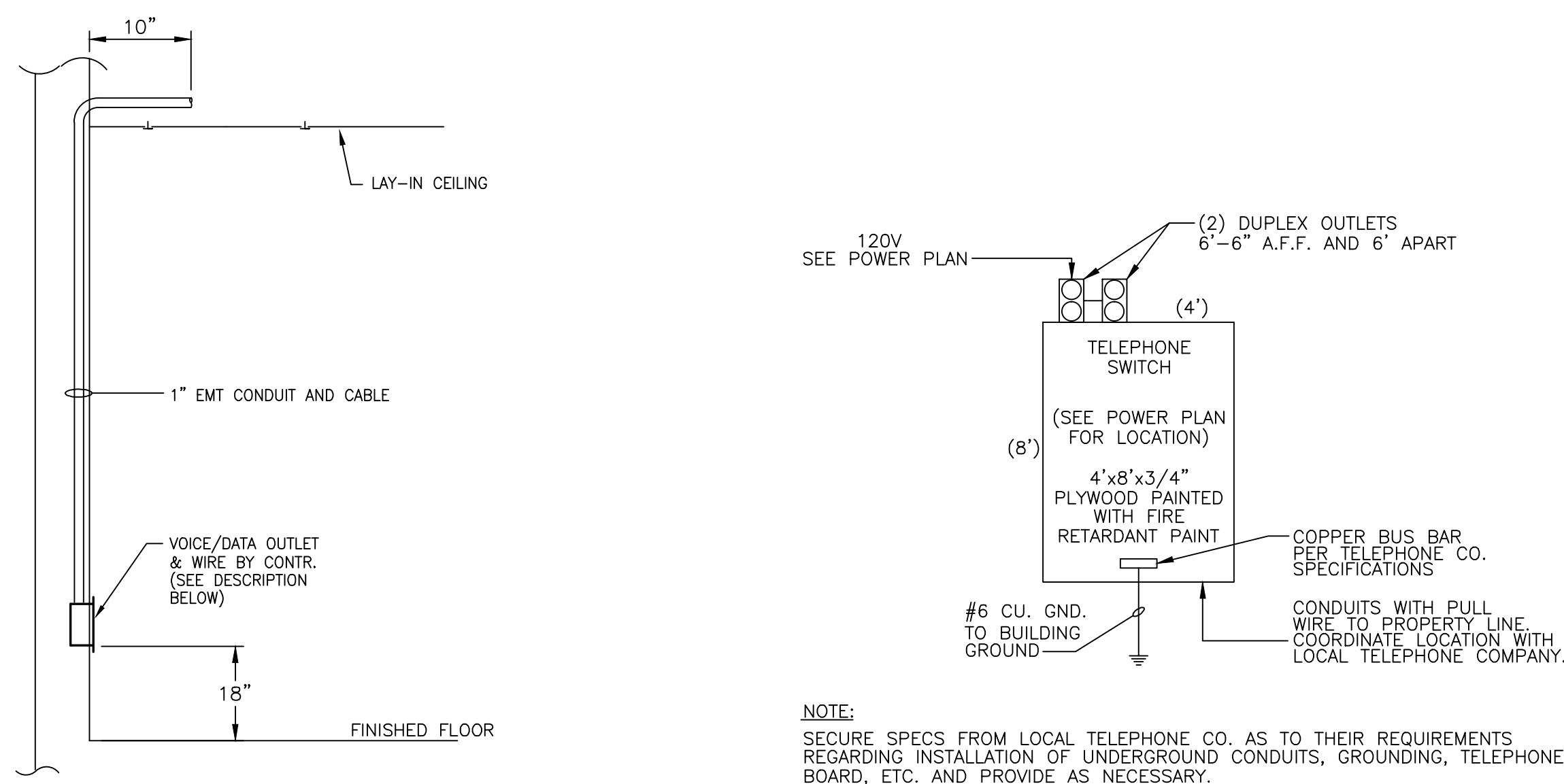
E.C. SHALL REVIEW DRAWINGS E301, E302, E303 & E304 TO BE COME THOROUGHLY FAMILIAR WITH THE ELECTRICAL LABOR AND MATERIAL REQUIREMENTS OF THE BUILDING ENERGY MANAGEMENT SYSTEM PROVIDED BY BIG LOTS. SOME ITEMS PROVIDED BY OTHERS TO BE INSTALLED BY E.C. ARE NOT INDICATED ON THIS DWG.

E.C. SHALL REVIEW DRAWING NOTES ON E301 TO BE COME THOROUGHLY FAMILIAR WITH THE ELECTRICAL LABOR AND MATERIALS NECESSARY TO MEET THE UP-FIT REQUIREMENTS OF BIG LOTS AND THEIR ASSOCIATED EQUIPMENT/FURNITURE.

E.C. TO PROVIDE (3) 2" PVC CONDUITS FROM TELECO PED. TO ELEC. SUB UP AT TELECOM BOARD LOCATION



**POWER PLAN**  
SCALE: 3/32" = 1'-0"



No.	Description

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BIG LOTS AND FOUR LEASE SPACES  
**BIG LOTS**  
 2660 WEIR PLACE CHESTER VIRGINIA

Date: **APR 12, 2013**  
 Drawing no. **E101**



# LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS	VOLTS	WATTS	B.F.
A4	4'-0" INDUSTRIAL STRIP LIGHT. PROVIDE WITH (1)-2 TUBE ELECTRONIC BALLAST. PROVIDE BIG LOTS STANDARD METALUX MODEL #: SSF-228-OS-QHE4X32TBUNISNSC-U	2-F28T8	277	56	.91
A8	8'-0" INDUSTRIAL STRIP LIGHT. PROVIDE WITH (2)-2 TUBE ELECTRONIC BALLAST. PROVIDE BIG LOTS STANDARD METALUX MODEL #: 8TSSF-228-OS-QHE4X32TBUNISNSC-U	4-F28T8	277	112	.91
A8-EM	8'-0" INDUSTRIAL STRIP LIGHT WITH (2)-2 TUBE ELECTRONIC BALLAST WITH EMERGENCY BATTERY BACK-UP. PROVIDE BIG LOTS STANDARD METALUX MODEL #: 8TSSF-228-OS-EL-FPB240H-QHE4X32TBUNISNSC-U	4-F28T8	277	112	.91
D	12" SQ. HID RECESSED CAN LIGHT WITH BLACK BAFEL AND REGRESSED CLEAR FRESNEL LENS. UL LISTED FOR DAMP LOCATIONS. PROVIDE CAPRI #CMQ-10H-70-S595-120	1-70W MH	120	70	.91
G	WALL MOUNTED AREA SECURITY LIGHT WITH FULL CUT-OFF, UL LISTED FOR WET LOCATION AND BRONZE FINISH. PROVIDE GARDOCO #141-WT-250MH-120-BRP OR EQUAL.	1-250W MH	120	250	.91
	WALL MOUNTED DOOR LIGHT WITH DIE-CAST ALUMINUM HOUSING. PROVIDE WITH UL LISTED, 90 MINUTE, EMERGENCY BACK-UP BATTERY SYSTEM. PROVIDE WITH UL LISTING FOR WET LOCATION MOUNTING, 2 LAMPS MEETING NFPA 101. PROVIDE McPHILBEN #PDNBZ OR EQUAL.	2-6W HALOGEN	277/6V	12W	N/A
	CANOPY CEILING MOUNTED BLACK DOOR LIGHT WITH DIE-CAST ALUMINUM HOUSING. PROVIDE WITH UL LISTED, 90 MINUTE, EMERGENCY BACK-UP BATTERY SYSTEM. PROVIDE WITH UL LISTING FOR DAMP LOCATION AND 2 LAMPS MEETING NFPA 101. PROVIDE McPHILBEN #R2X6N24B6 OR EQUAL.	2-6W HALOGEN	277/6V	12W	N/A
	CEILING OR WALL MOUNTED LED EXIT LIGHT CONFORMING TO NFPA 101 STANDARDS. w/ BATTERY & SOLID STATE CHARGER. DOUBLE OR SINGLE BRUSHED ALUMINUM FACE/BODY, PILOT & STATUS INDICATING LIGHTS, TEST SWITCH, & 120 MIN. EMERGENCY RUN TIME. EXIT SIGN SHALL HAVE 5 YEAR WARRANTY. PROVIDE TCP #: 22743	RED LED	277/6V	2	N/A

### LIGHTING PLAN NOTES:

- ALL LIGHT FIXTURES IN THE STOCK OR STORAGE AREA TO BE HUNG AT 14' AFF.
- ALL LIGHT FIXTURES IN THE SALES FLOOR TO BE HUNG FROM THE BOTTOM OF THE CEILING GRID WHEN APPLICABLE, BY THE CLIPS PROVIDED, OR AT 14' AFF IF AN EXPOSED DECK.
- ALL PERIMETER LIGHTING FIXTURES ON THE SALES FLOOR TO BE MOUNTED BETWEEN 4' TO 6' FROM ANY WALL AND 10' ON CENTER WHERE APPLICABLE, ROWS SHOULD RUN LEFT TO RIGHT FROM STORE FRONT.
- ALL THE LIGHT FIXTURES IN THE STOCK OR STORAGE AREAS TO BE MOUNTED AT 12'-0" ON CENTER
- ALL TRACK LIGHTING TO BE INSTALLED AT 6" BELOW STRIP LIGHTING
- ALL CHANGES TO BE APPROVED BY A BIG LOTS, INC. REPRESENTATIVE.
- ALL WORK TO BE DONE IN A WORKMAN LIKE MANNER, WITH A ONE YEAR WARRANTY ON THE LABOR AND MATERIAL OF INSTALLATION.
- SEE POWER PANEL SCHEDULES ON DWG E201 AND LIGHTING CONTROL PANEL INFORMATION ON DWG E304 FOR CIRCUITING INFORMATION.
- ALL LOCATIONS TO BE FIELD VERIFIED BY A BIG LOTS, INC. REPRESENTATIVE.

**ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE**

PRESCRIPTIVE  PERFORMANCE  ENERGY COST BUDGET

Provide a standard riser diagram which indicates designated points for check metering. Provide a standard panel schedule description which identifies different induced loads.

**LIGHTING SCHEDULE**

LAMP TYPE REQUIRED IN FIXTURE, VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING)  
 NUMBER OF LAMPS IN FIXTURE, VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING)  
 BALLAST TYPE IN FIXTURE, VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING)  
 NUMBER OF BALLASTS IN FIXTURE, VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING)  
 TOTAL WATTAGE PER FIXTURE, VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING)  
 TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED: \*\* 37,600W VS. 37,600W \*\*  
 EXTERIOR LIGHTING ZONE, 2 SPECIFIED VS. ALLOWED: \*\* 2,400W VS. 3,000W \*\*

EQUIPMENT SCHEDULES WITH MOTORS (Not used for mechanical systems)

MOTOR HORSEPOWER:  
 NUMBER OF PHASES:  
 MINIMUM EFFICIENCY:  
 MOTOR TYPE:  
 # OF POLES:

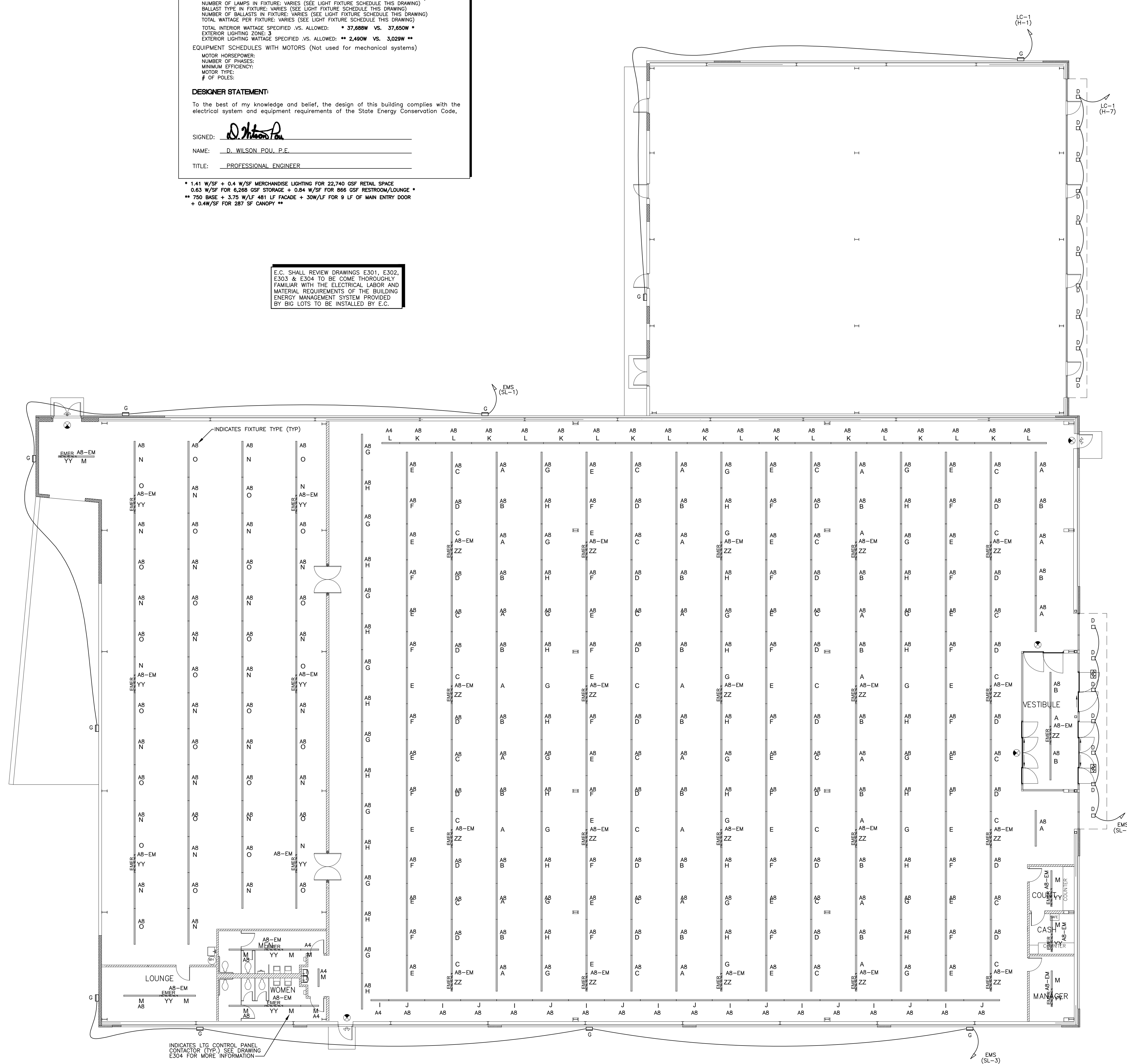
**DESIGNER STATEMENT:**

To the best of my knowledge and belief, the design of this building complies with the electrical system and equipment requirements of the State Energy Conservation Code.

SIGNED: *D. Wilson POU*  
 NAME: D. WILSON, POU, P.E.  
 TITLE: PROFESSIONAL ENGINEER

\* 1.41 W/SF + 0.4 W/SF MERCHANDISE LIGHTING FOR 22,740 GSF RETAIL SPACE  
 0.43 W/SF FOR 6,208 GSF STORAGE + 0.84 W/SF FOR 806 GSF RESTROOM/LAUNGE \*  
 \*\* 750 BASE + 3.75 W/LF 481 LF FACADE + 30W/LF FOR 9 LF OF MAIN ENTRY DOOR  
 + 0.4W/SF FOR 287 SF CANOPY \*\*

E.C. SHALL REVIEW DRAWINGS E301, E302, E303 & E304 TO BE COME THOROUGHLY FAMILIAR WITH THE ELECTRICAL LABOR AND MATERIAL REQUIREMENTS OF THE BUILDING ENERGY MANAGEMENT SYSTEM PROVIDED BY BIG LOTS TO BE INSTALLED BY E.C.



**LIGHTING PLAN**  
 SCALE: 3/32"=1'-0"

No.	Description

**ENGINEERING**

D. WILSON POU  
 No. 037459  
 4/12/13

4791-A, NC, Hwy. 33, East Greenville, NC, 27838  
 E-Mail: Address: genenr@biglots.com  
 Phone: (252) 439-0338 Fax: (252) 439-9492

**MSA**

Mark Smith Architect  
 415 Grassfield Court  
 Winterville, North Carolina 28990  
 (252) 774-4215 mark@marksmitharchitect.com

BIG LOTS AND FOUR LEASE SPACES

**BIG LOTS**

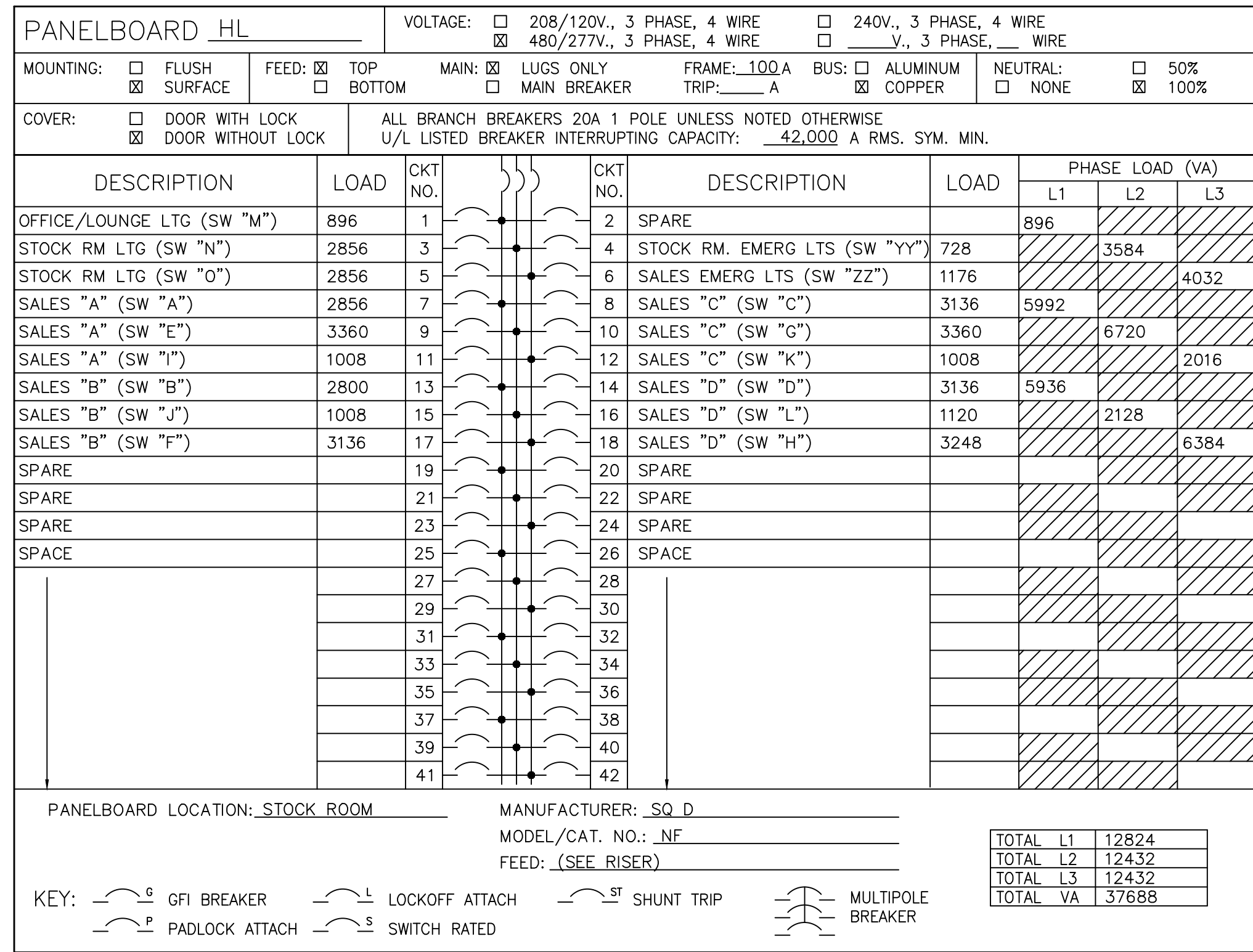
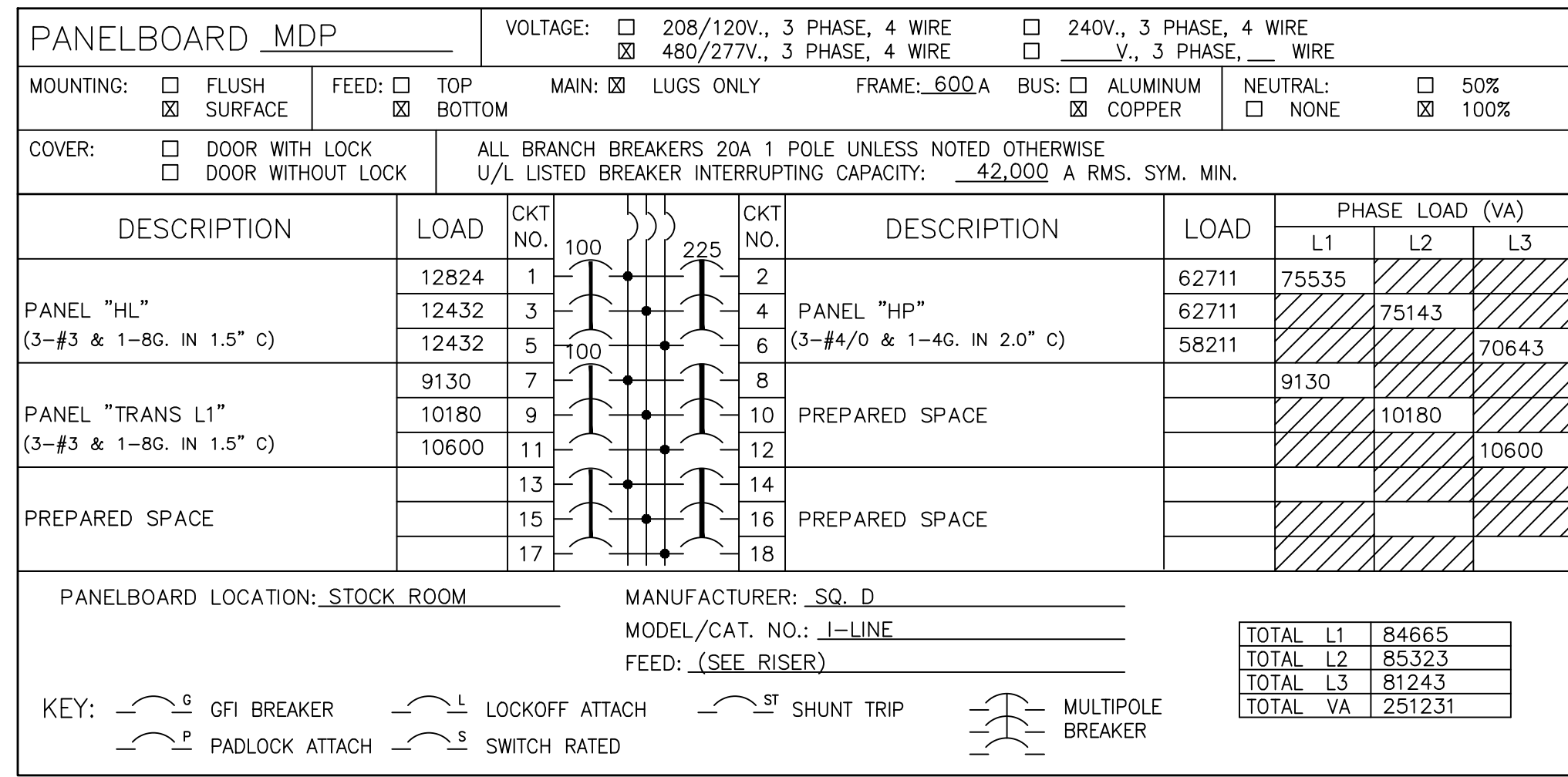
2650 WEIR PLACE CHESTER VIRGINIA

Date: **APR 12, 2013**

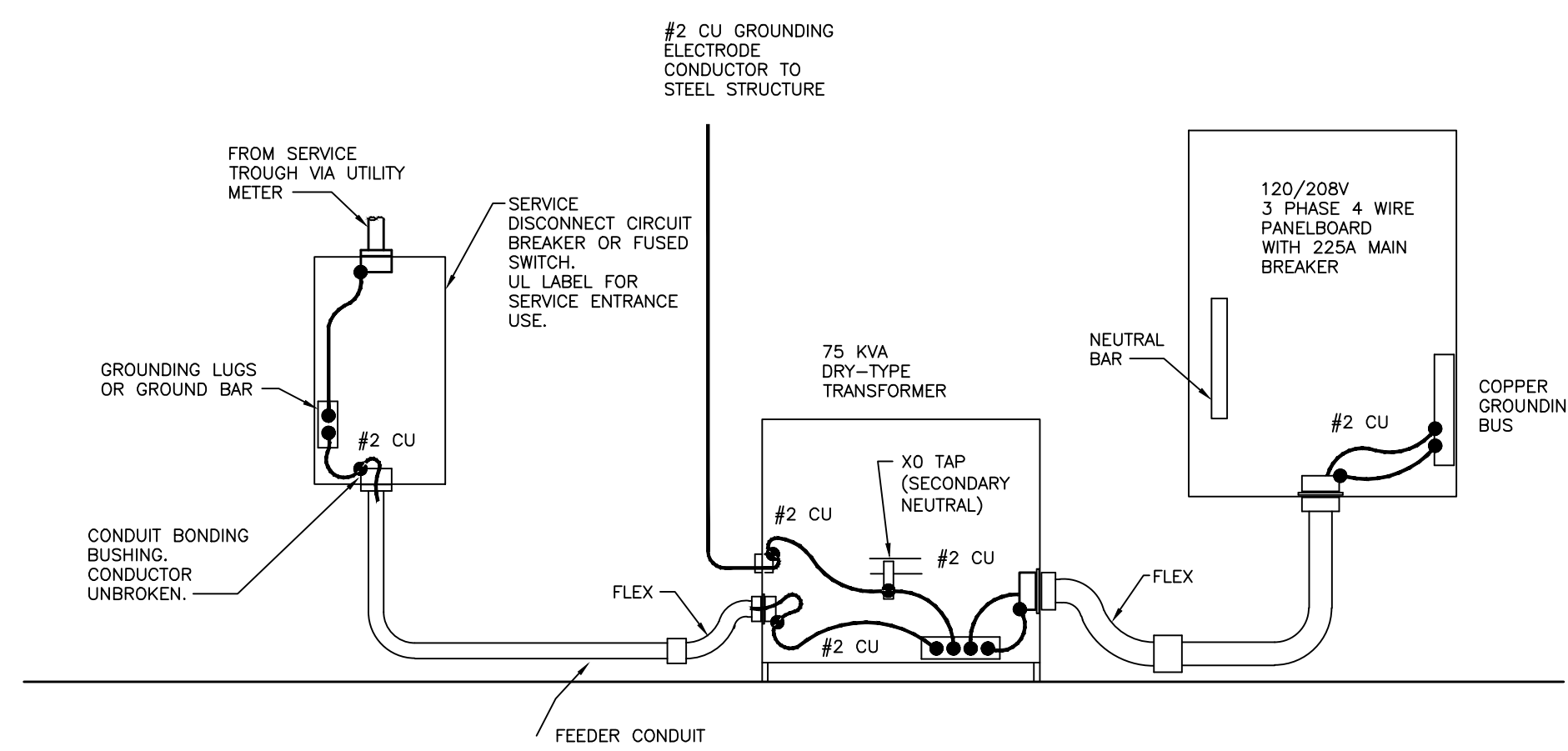
Drawing no. **E102**

108 NO. P51A020



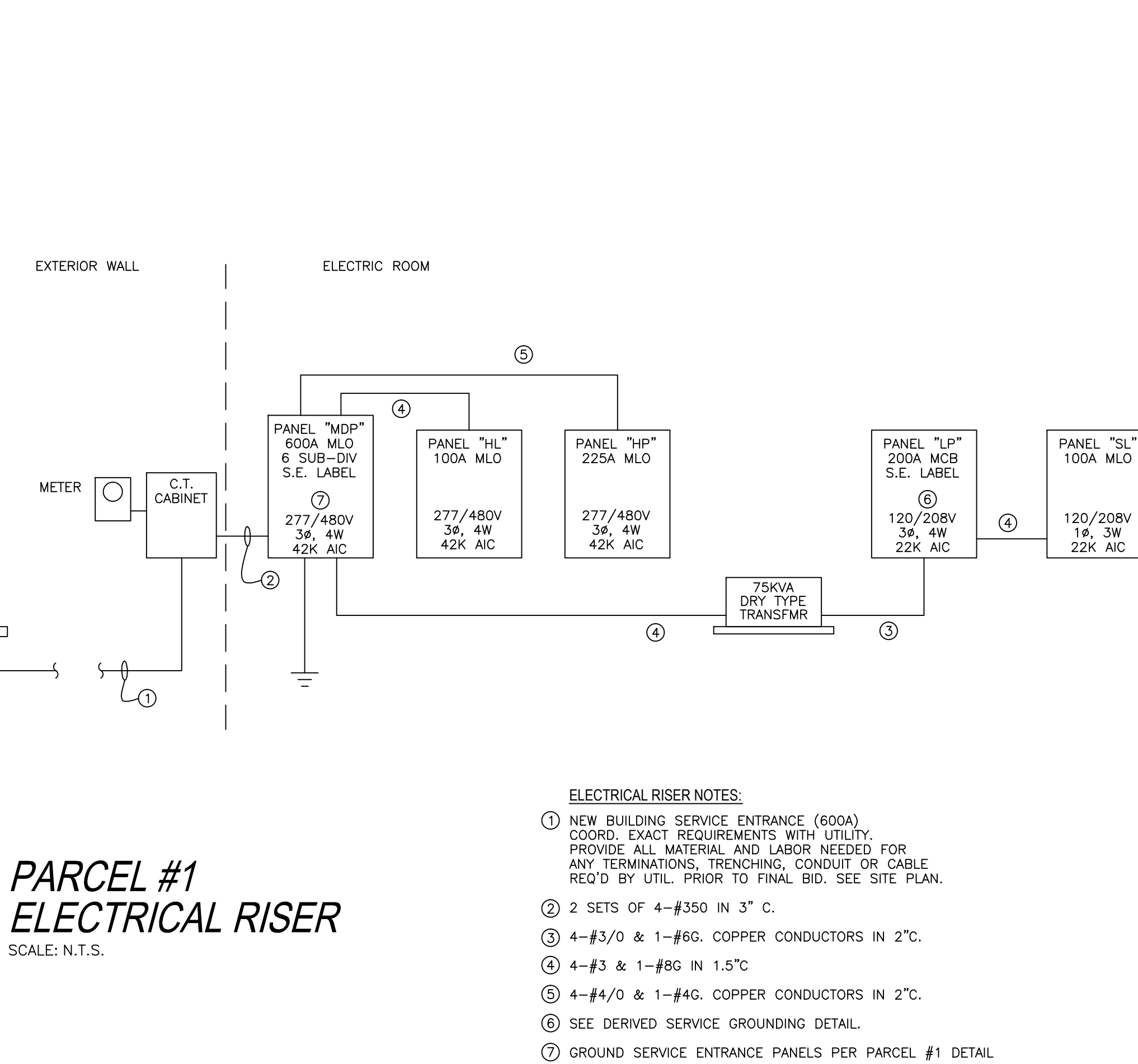
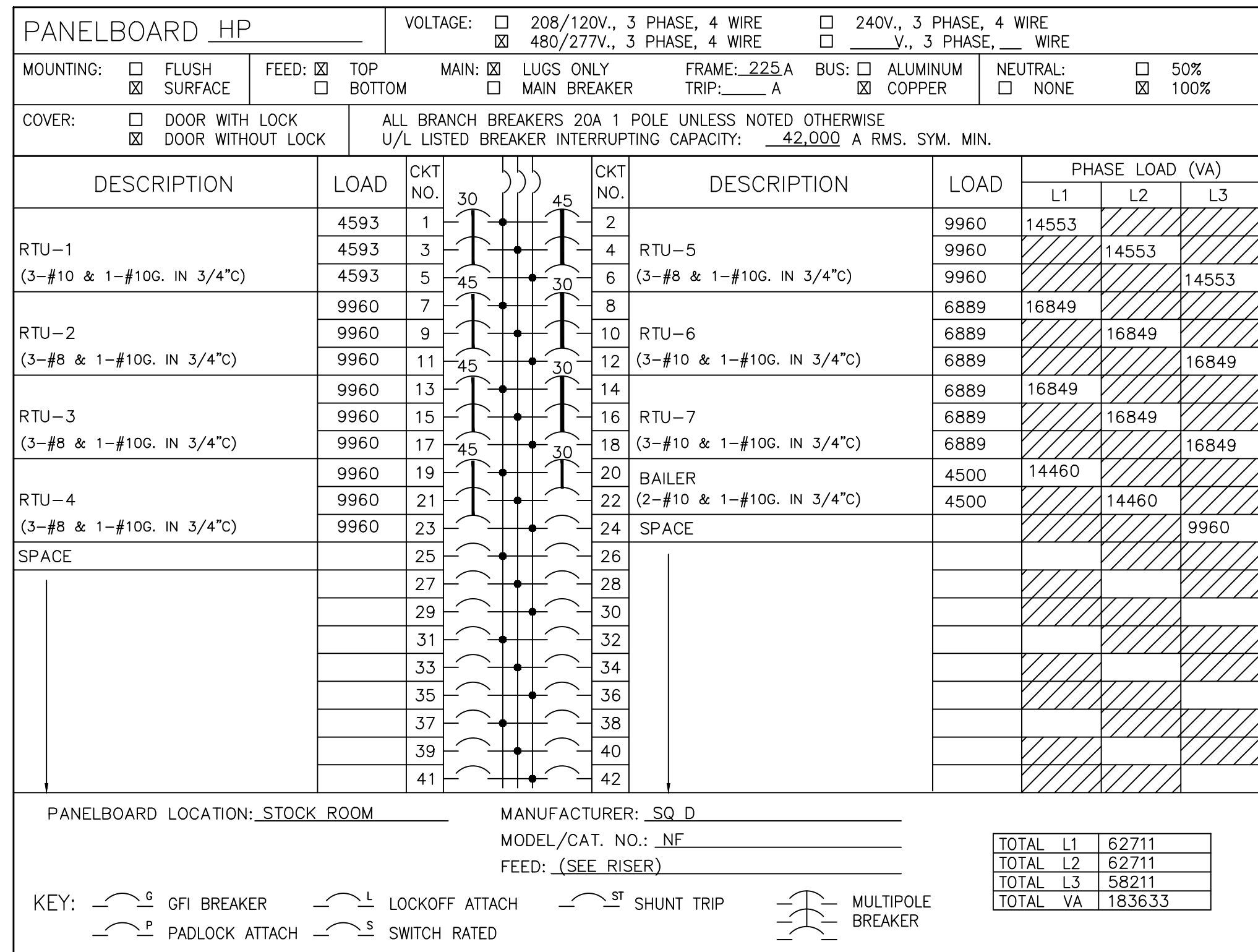
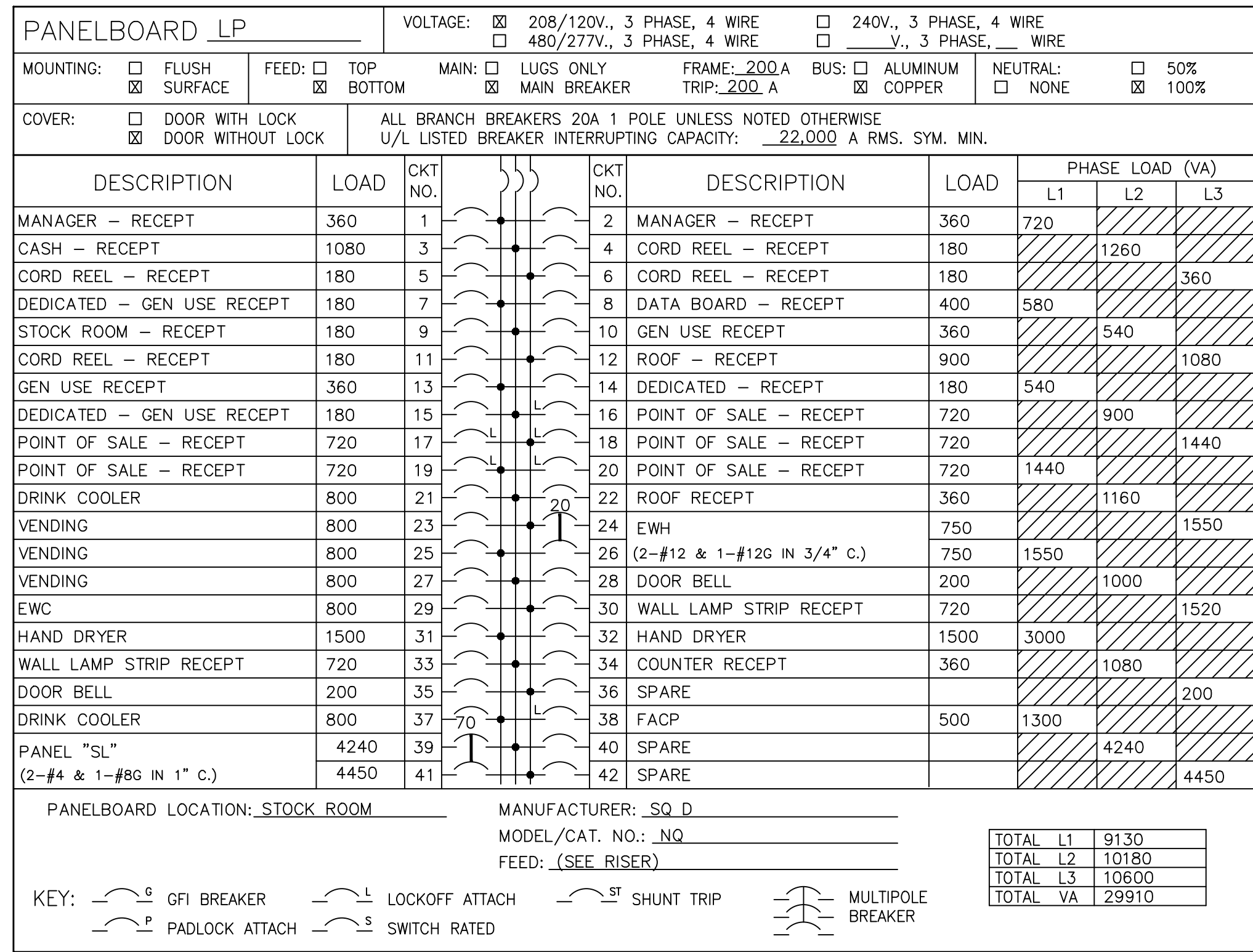


LOAD	BIG LOTS ELECTRICAL LOAD SUMMARY	
	CONN. (KVA)	DEMAND (KVA)
EXISTING DEMAND	45.7	57.1
RECEPTACLES	10.6	10.3
RTU's	174.9	182.4
AUX. STRIP HT.	-	(N/A)
WATER HEATER	1.5	1.9
MISC. EQUIP.	18.3	18.3
TOTAL	251.0	270.0
TOTAL AMPS @ 480V/3φ		325A



75KVA DERIVED SERVICE DETAIL

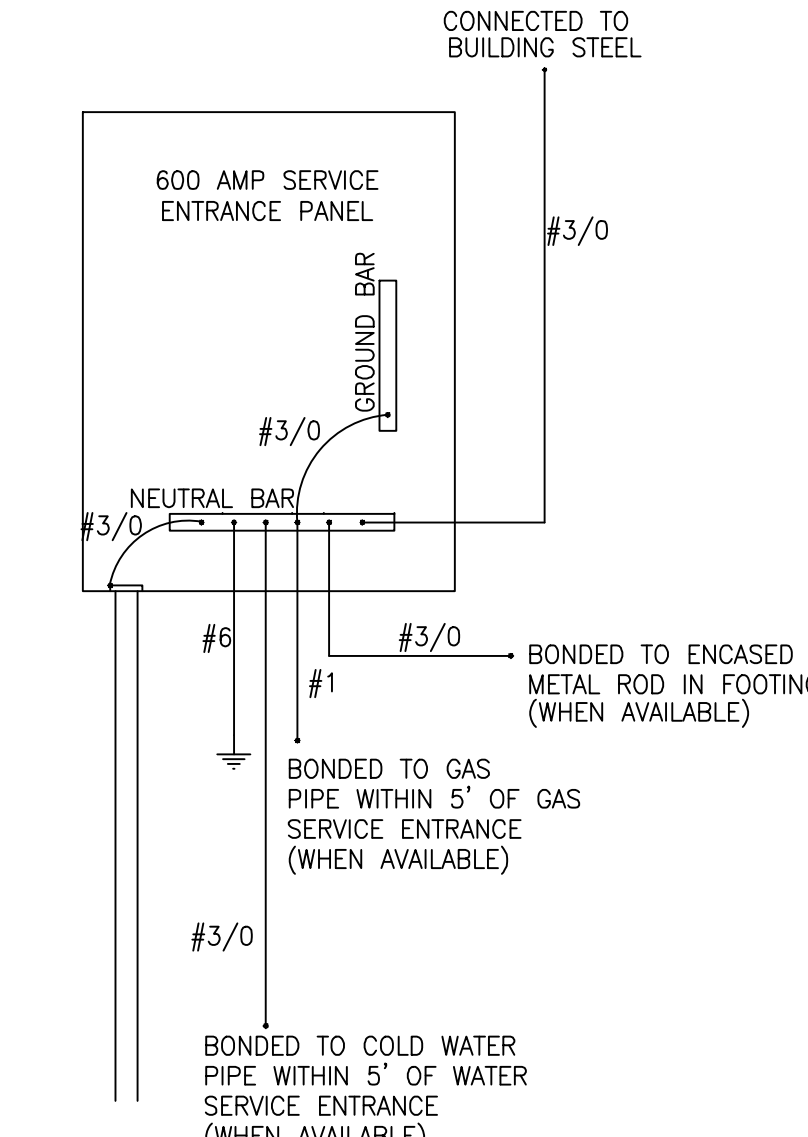
SCALE: N.T.S.



PARCEL #1 ELECTRICAL RISER

SCALE: N.T.S.

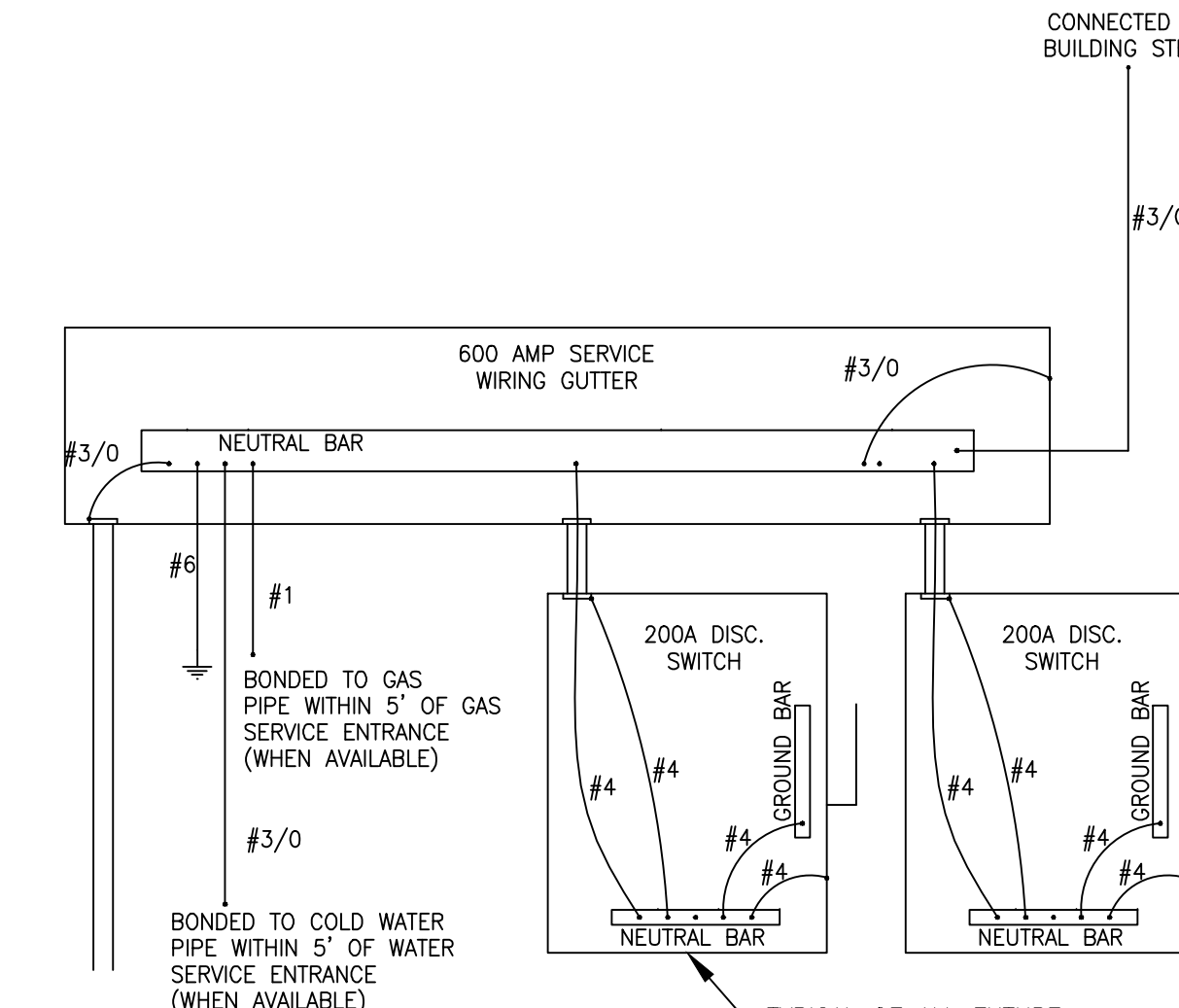
- ELECTRICAL RISER NOTES:
- NEW BUILDING SERVICE ENTRANCE (600A) COORD. EXACT REQUIREMENTS WITH UTILITY. PROVIDE ALL MATERIAL AND LABOR NEEDED FOR ANY TERMINATIONS, TRENCHING, CONDUIT OR CABLE REQ'D BY UTIL. PRIOR TO FINAL BID. SEE SITE PLAN.
  - 2 SETS OF 4-#350 IN 3" C.
  - 4-#3/0 & 1-#6G. COPPER CONDUCTORS IN 2" C.
  - 4-#3 & 1-#6G IN 1.5" C.
  - 4-#4/0 & 1-#4G. COPPER CONDUCTORS IN 2" C.
  - SEE DERIVED SERVICE GROUNDING DETAIL.
  - GROUND SERVICE ENTRANCE PANELS PER PARCEL #1 DETAIL.



- NOTE:
- THIS DRAWING ONLY SHOWS GROUNDING ELECTRODE CONDUCTORS AND BONDING JUMPERS. ALL CONDUITS SHALL ALSO HAVE EQUIPMENT GROUNDING CONDUCTORS SIZED PER NEC AND DRAWINGS.
  - BONDING OF GAS PIPE IS TO EQUALIZE POTENTIAL OF GAS PIPE ONLY. AS REQ'D BY N.E.C. & LOCAL BUILDING CODES.

PARCEL #1 SERVICE ENTRANCE GROUNDING DETAIL

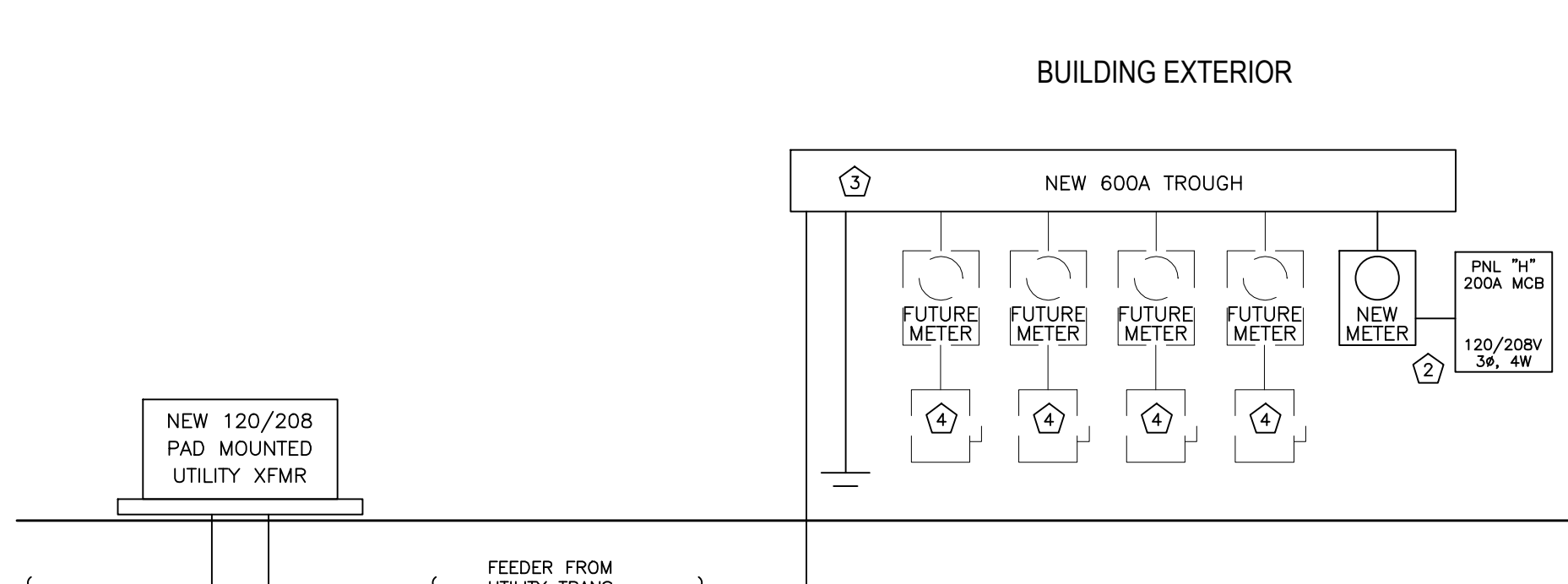
SCALE: NTS



- NOTE:
- THIS DRAWING ONLY SHOWS GROUNDING ELECTRODE CONDUCTORS AND BONDING JUMPERS. ALL CONDUITS SHALL ALSO HAVE EQUIPMENT GROUNDING CONDUCTORS SIZED PER NEC AND DRAWINGS.
  - BONDING OF GAS PIPE IS TO EQUALIZE POTENTIAL OF GAS PIPE ONLY. AS REQ'D BY N.E.C. & VOLUME VI OF NBCB.

PARCEL #2 SERVICE ENTRANCE GROUNDING DETAIL

SCALE: NTS



PARCEL #2 ELECTRICAL RISER

SCALE: N.T.S.

- ELECTRICAL RISER NOTES:
- NEW UNDERGROUND 120/208V "Y" SERVICE. COORDINATE ALL CONDUIT WIRING, TERMINATION REQUIREMENTS WITH UTILITY. PROVIDE LABOR & MATERIAL AS REQUIRED BY UTILITY.
  - 4-#3/0 & 2.0" C. (SEE GROUNDING DETAIL)
  - E.G. SHALL GROUND SERVICE ENTRANCE THROUGH PER THE PARCEL #2 DETAIL ON THIS DRAWING.
  - FUTURE UP-FIT SERVICE ENTRANCE SWITCHES SHALL BE SUBMITTED WITH THEIR RESPECTIVE UP-FIT PLANS.

THIS DRAWING IS NOT TO BE COPIED IN WHOLE OR IN PART. THIS DRAWING OR THE INFORMATION HEREON IS NOT TO BE USED ON ANY OTHER PROJECT AND MUST BE RETURNED TO ENGINEERING SOURCE OF NC, P.A. UPON REQUEST. DO NOT SCALE THESE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.

BIG LOTS AND FOUR LEASE SPACES  
BIG LOTS  
2650 WEIR PLACE  
CHESTER  
VIRGINIA

MSA  
415 Grassfield Court  
Winterville, North Carolina 28990  
(919) 777-4215 mark@marksmitharchitect.com

ENGINEERING  
D. WILSON P.D.  
No. 037459  
4/12/13

Date: APR 12, 2013  
Drawing no. E201

108 NO. 551A/200

**BASIC WIRING REQUIREMENTS**

- PLEASE REVIEW SPECIFICATIONS BELOW AND REFER TO SHEET E-1 FOR DESIGNATED LOCATIONS.
- NO ADDITIONS OR CHANGES TO THIS SCOPE OF WORK CAN BE MADE WITHOUT PRE-APPROVAL BY AUTHORIZED BIG LOTS REPRESENTATIVE.
- ALL WORK IS TO BE DONE IN A WORKMAN-LIKE MANNER, AND THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, INSPECTIONS, AND COMPLIANCE TO ALL NATIONAL AND LOCAL CODES AND REQUIREMENTS. EXISTING CIRCUITS AND RECEPTACLES ARE TO BE UTILIZED IN ALL CASES IF COST EFFECTIVE. PLEASE BREAK YOUR BID DOWN BY LINE ITEM WITH SPECIFICATIONS ON LABOR COSTS AND MATERIAL.
- ELECTRICIAN IS ALSO TO RETURN TO THE STORE 3-7 DAYS PRIOR TO DRY RUN OPENING TO VERIFY STORE LIGHTING IS FULLY FUNCTIONAL AND MAKE WHATEVER REPAIRS THAT MAY BE NEEDED.

ANY QUESTIONS PLEASE CALL: 614-278-6719 or 614-278-6946. THANK YOU FOR YOUR ATTENTION IN THIS MATTER.

**TABLE OF CONTENTS**

- CASHWRAP CABINETS/FURNITURE CABINETS
- EXTERIOR SIGNS
- AUTOMATIC DOORS
- CONVENIENCE RECEPTACLE
- CORD REELS
- COUNTDOWN ROOM
- CASH ROOM
- EMPLOYEE LOUNGE
- MANAGER OFFICE
- BALER
- DOCK LIFT
- RECEIVING LIGHT & DOORBELL
- PHONE SYSTEM & ALARM BOARD
- LAMP WALL PLUG MOLD
- STORE LIGHTING
- DOCK LIGHT
- WATER COOLER
- HAND DRYER
- MOTION SENSOR
- DOOR KIT

**1) CASHWRAP CABINETS / FURNITURE CABINETS**

CONTRACTOR TO PROVIDE ONE (1) 120V/20AMP ISOLATED GROUND CIRCUIT (IDENTIFIED ON DIAGRAM AS I.G.) AND TWO (2) 120V/20AMP CONVENIENCE CIRCUITS (IDENTIFIED ON DIAGRAM AS A & B). ALL CIRCUITS TO HAVE BREAKER LOCKS, FOR EACH CASHWRAP CABINET WITHIN THE STORE.

**CASHWRAP CABINETS**

- EACH CABINET TO BE SUPPLIED ELECTRICAL CONDUCTORS VIA 2.25" X 2.25" TWIN CHANNEL TELE-POWER POLE FROM OVERHEAD TO THE CABINET. LENGTH OF TELE-POWER POLE TO BE DETERMINED BY THE CEILING/DECK HEIGHT. TELE-POWER POLE, WHITE IN COLOR, SUPPLIED BY CONTRACTOR.
- EACH CABINET IS TYPICALLY CONSTRUCTED WITH ELECTRICAL BOXES AND DEVICES SUPPLIED. WIRE CONDUCTORS AND CONDUIT ARE SUPPLIED BY CONTRACTOR. ALL WIRE CONDUCTORS AND CONDUIT ARE TO BE RUN HORIZONTALLY THROUGH THE CABINET AS TO NOT INTERFERE WITH ADJUSTABLE SHELF PLACEMENT.

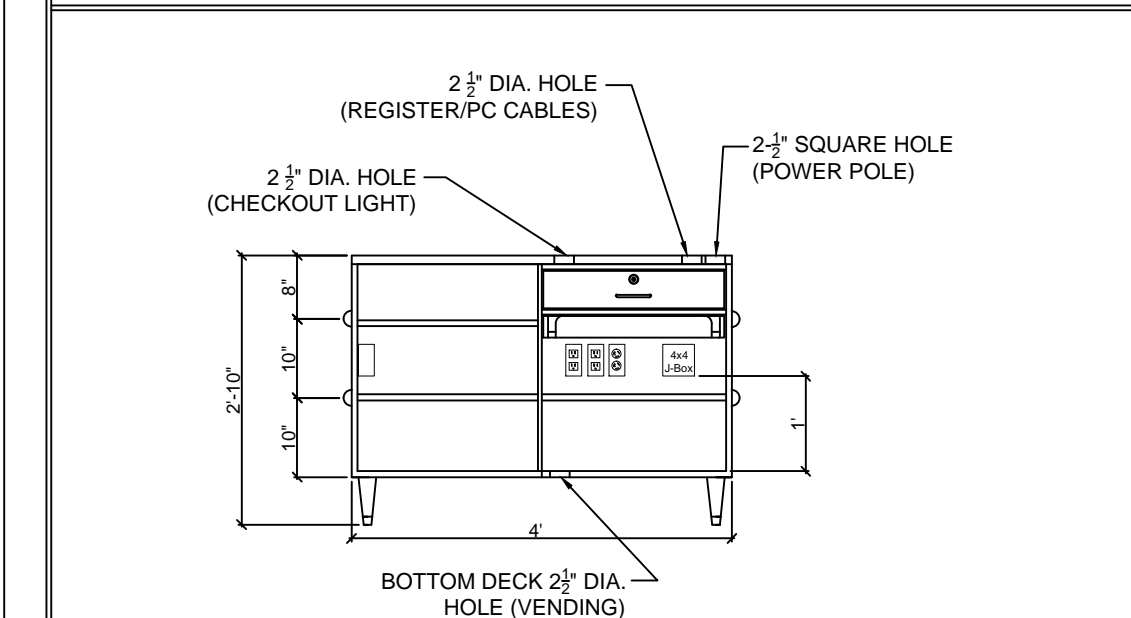
IN THE EVENT THAT THE CABINETS DO NOT CONTAIN ELECTRICAL BOXES, CONDUIT, AND DEVICES, THE CONTRACTOR IS TO SUPPLY AND INSTALL THE FOLLOWING COMPONENTS PER THE DIAGRAM BELOW.

**EACH CABINET REQUIRES:**

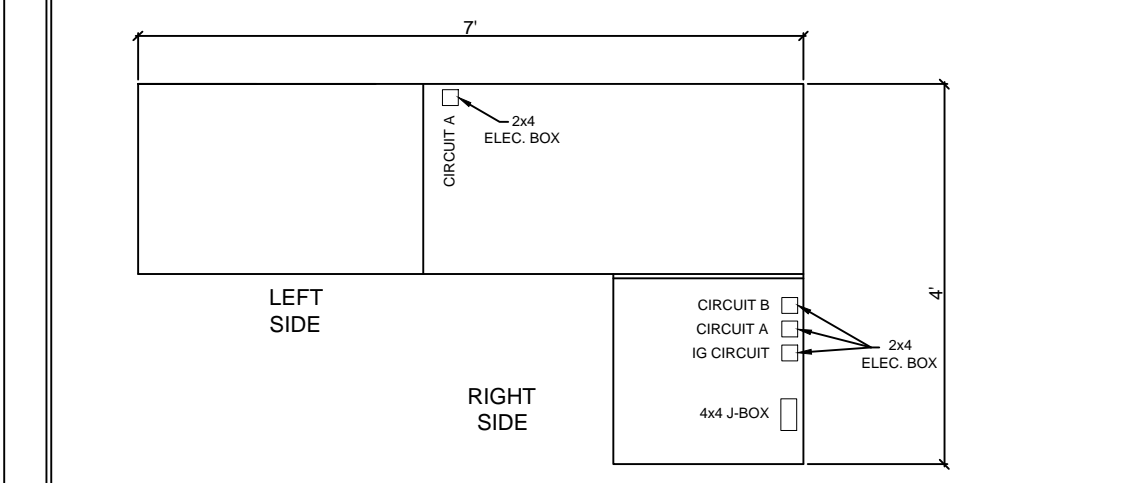
- ONE (1) 4"x 4" JUNCTION BOX
- FOUR (4) 2"x 4" ELECTRICAL BOXES
- ONE (1) NEMA L5-15R ORANGE TWISTLOCK RECEPTACLE (HUBBELL IG4700A 2 POLE 3 WIRE GROUNDING 15A/125VAC)
- THREE (3) NEMA 5-20R GENERAL DUTY DUPLEX RECEPTACLES (HUBBELL HBL 5352 20A/125VAC)
- ALL BOXES AND DEVICES TO HAVE APPROPRIATE COVER PLATES.

DESCRIPTION	CATALOG NUMBER
SPECIAL PURPOSE DUPLEX RECEPTACLES BACK AND SIDE WIRED	NEMA L5 15R 15A 125V UL/CSA 0.5 HP
ISOLATED GROUND, FLUSH, ORANGE RTP FACE	IG4700A

**FRONT END CHECKOUT WIRING SCALE: NTS**



**RIGHT ELEVATION**



**FURNITURE CABINET**

- CONTRACTOR TO PROVIDE ONE (1) 120V/20AMP ISOLATED GROUND CIRCUIT (IDENTIFIED ON DIAGRAM AS I.G.) AND ONE (1) 120V/20AMP CONVENIENCE CIRCUIT (IDENTIFIED ON DIAGRAM AS A). ALL CIRCUITS TO HAVE BREAKER LOCKS, FOR THE FURNITURE CASHWRAP CABINET.
- CABINET TO BE SUPPLIED ELECTRICAL CONDUCTORS VIA 2.25" X 2.25" TWIN CHANNEL TELE-POWER POLE FROM OVERHEAD TO THE CABINET. LENGTH OF TELE-POWER POLE TO BE DETERMINED BY THE CEILING/DECK HEIGHT.
- EACH CABINET IS TYPICALLY CONSTRUCTED WITH ELECTRICAL BOXES AND DEVICES SUPPLIED. WIRE CONDUCTORS AND CONDUIT ARE SUPPLIED BY CONTRACTOR.

IN THE EVENT THAT THE CABINET DOES NOT CONTAIN ELECTRICAL BOXES, CONDUIT, AND DEVICES THE CONTRACTOR IS TO SUPPLY AND INSTALL THE FOLLOWING COMPONENTS PER THE DIAGRAM BELOW.

**EACH CABINET REQUIRES:**

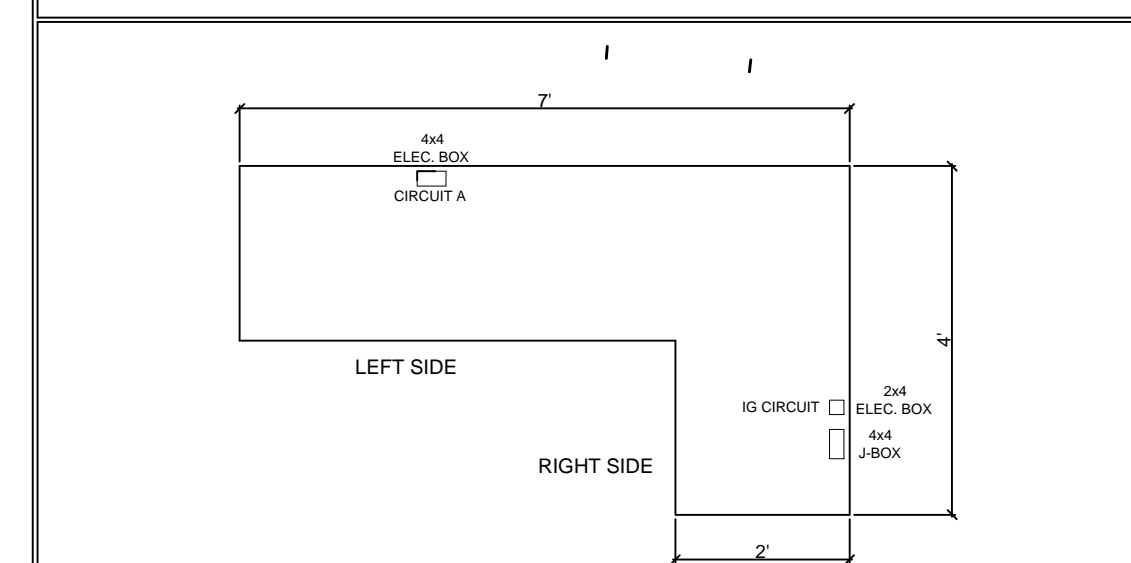
- ONE (1) 4"x 4" JUNCTION BOX
- ONE (1) 4"x 4" ELECTRICAL BOX
- ONE (1) 2"x 4" ELECTRICAL BOX
- ONE (1) NEMA L5-15R ORANGE TWISTLOCK RECEPTACLE (HUBBELL IG4700A 2 POLE 3 WIRE GROUNDING 15A/125VAC)
- TWO (2) NEMA 5-20R GENERAL DUTY DUPLEX RECEPTACLES (HUBBELL HBL 5352 20A/125VAC)
- ALL BOXES AND DEVICES TO HAVE APPROPRIATE COVER PLATES.

**POS/CASH REGISTER NOTES:**

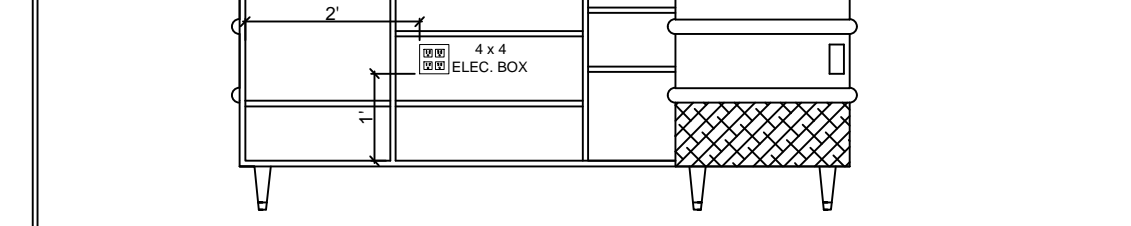
**\*NOTE:**  
UNDER NO CIRCUMSTANCES IS ANYTHING TO BE WIRED INTO THE I.G. RECEPTACLES. THESE ARE FOR THE DESIGNATED CASH REGISTER TWIST LOCK PLUGS ONLY! NOTE: THE GROUND WIRE IS TO TERMINATE AT THIS PANEL GROUNDING CONDUCTOR. IF SUB-PANEL IS USED FOR THESE CIRCUITS AND NO GROUND CONDUCTOR IS PRESENT, BOND TO PANEL ENCLOSURES AND CONTINUE GROUND TO CLOSEST WATER PIPE OR BUILDING STEEL. A SEPARATE HOT, NEUTRAL AND LOW RESISTANCE PATH GROUND IS REQUIRED FOR THESE CIRCUITS. CONTRACTOR TO LABEL AND RECORD AMP DRAW, PER CIRCUIT, IN PANEL BOX CIRCUIT LABEL.

**\*NOTE:**  
DROPS TO EACH OF THE DESIGNATED CHECK-OUTS SHOULD BE RUN IN 2 CHANNEL TELE-POLES. I.G. CIRCUITS AND CONVENIENCE CIRCUITS ARE TO BE FED THROUGH THE SAME DROP.

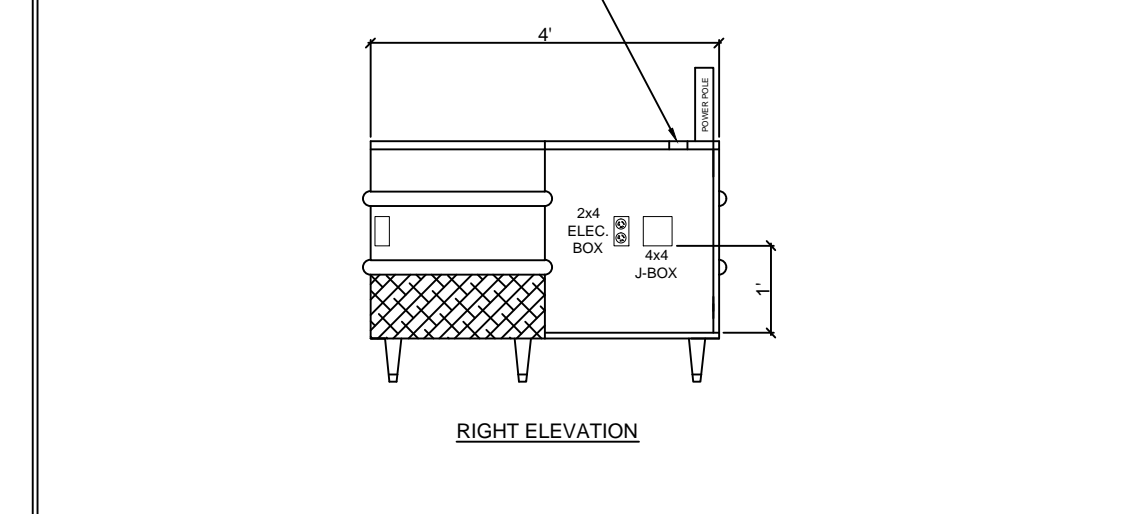
**FURNITURE CHECKOUT WIRING SCALE: NTS**



**LEFT ELEVATION**



**RIGHT ELEVATION**



**2) EXTERIOR SIGNS:**

CONTRACTOR TO PROVIDE FOR EACH BUILDING SIGN LOCATION, ONE (1) 120V/20amp CIRCUIT AND CONTROLLED BY EMS EQUIPMENT. JUNCTION BOX FOR EACH CIRCUIT TO BE LOCATED ON THE BACKSIDE OF SIGN WALL AND CENTERED WITHIN SIGN AREA (IF ANY QUESTIONS, CONTACT MICHAEL NEU @ 614-278-6868) AFTER SIGN IS INSTALLED. FINAL ELECTRICAL CONNECTIONS TO BE COMPLETED BY ELECTRICIAN.

CONTRACTOR TO PROVIDE POWER TO PYLON/STREET SIGN. POWER TO PYLON MUST ADEQUATE TO HANDLE SPECIFIED LOAD AND BE CONTROLLED BY EMS EQUIPMENT.

**3) AUTOMATIC DOOR OPERATORS:**

CONTRACTOR TO PROVIDE ONE (1) 120V/20amp CIRCUIT TO EACH ENTRY AND EXIT STOREFRONT DOOR LOCATION, TYPICALLY FOUR (4) LOCATIONS. CIRCUITS TO TERMINATE TO A 2x4 BOX w/COVER PLATE AT THE HEADER LOCATION OF EACH DOOR.

**4) CONVENIENCE RECEPTACLE:**

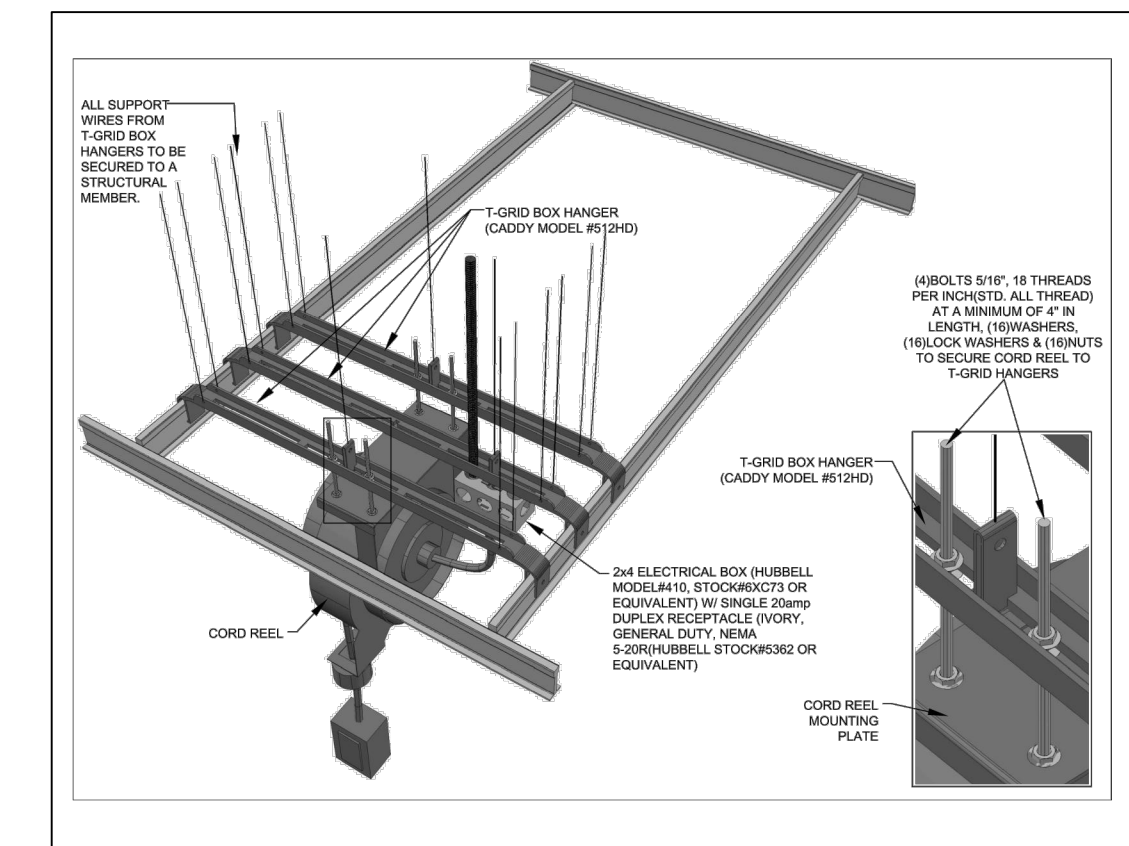
CONTRACTOR TO PROVIDE ONE (1) 120V/20amp CIRCUIT. CIRCUIT TO SUPPLY ONE (1) NEMA 5-20R GENERAL DUTY DUPLEX RECEPTACLE (HUBBELL HBL 5352, OR EQUIVALENT), RECEPTACLES TO BE MOUNTED 18" AFF (OR 48" AFF IF MOUNTED TO A COLUMN).

**5) CORD REELS:**

CONTRACTOR TO PROVIDE ONE (1) 120V/20amp CIRCUIT. CIRCUIT TO SUPPLY ONE (1) NEMA 5-20R GENERAL DUTY DUPLEX RECEPTACLE, FLUSH MOUNTED IN CEILING AT EACH DESIGNATED CORD REEL LOCATION. CONTRACTOR TO INSTALL A CORD REEL AT EACH LOCATION PER THE DIAGRAM BELOW.

**CORD REEL DETAILS AND SPECIFICATIONS:**

- ALEMITE CORD REEL MODEL 7260 OR EQUIVALENT TO BE:
- COMMERCIAL GRADE
- 20 AMP
- UL RATED
- 45' CORD
- GFCI RECEPTACLE



**6) COUNTDOWN ROOM:**

CONTRACTOR TO PROVIDE ONE (1) 120V/20amp CIRCUIT. CIRCUIT TO SUPPLY TWO (2) NEMA 5-20R GENERAL DUTY DUPLEX RECEPTACLES (HUBBELL HBL 5352, OR EQUIVALENT) RECEPTACLES TO BE MOUNTED @ 46" A.F.F. DIRECTLY ABOVE THE COUNTERTOP MOUNTED AT 40" A.F.F.

**7) CASH ROOM:**

CONTRACTOR TO PROVIDE ONE (1) 120V/20amp CIRCUIT. CIRCUIT TO SUPPLY TWO (2) NEMA 5-20R GENERAL DUTY DUPLEX RECEPTACLES (HUBBELL HBL 5352, OR EQUIVALENT) RECEPTACLES TO BE MOUNTED @ 36" A.F.F. DIRECTLY ABOVE THE COUNTERTOP MOUNTED AT 30" A.F.F.

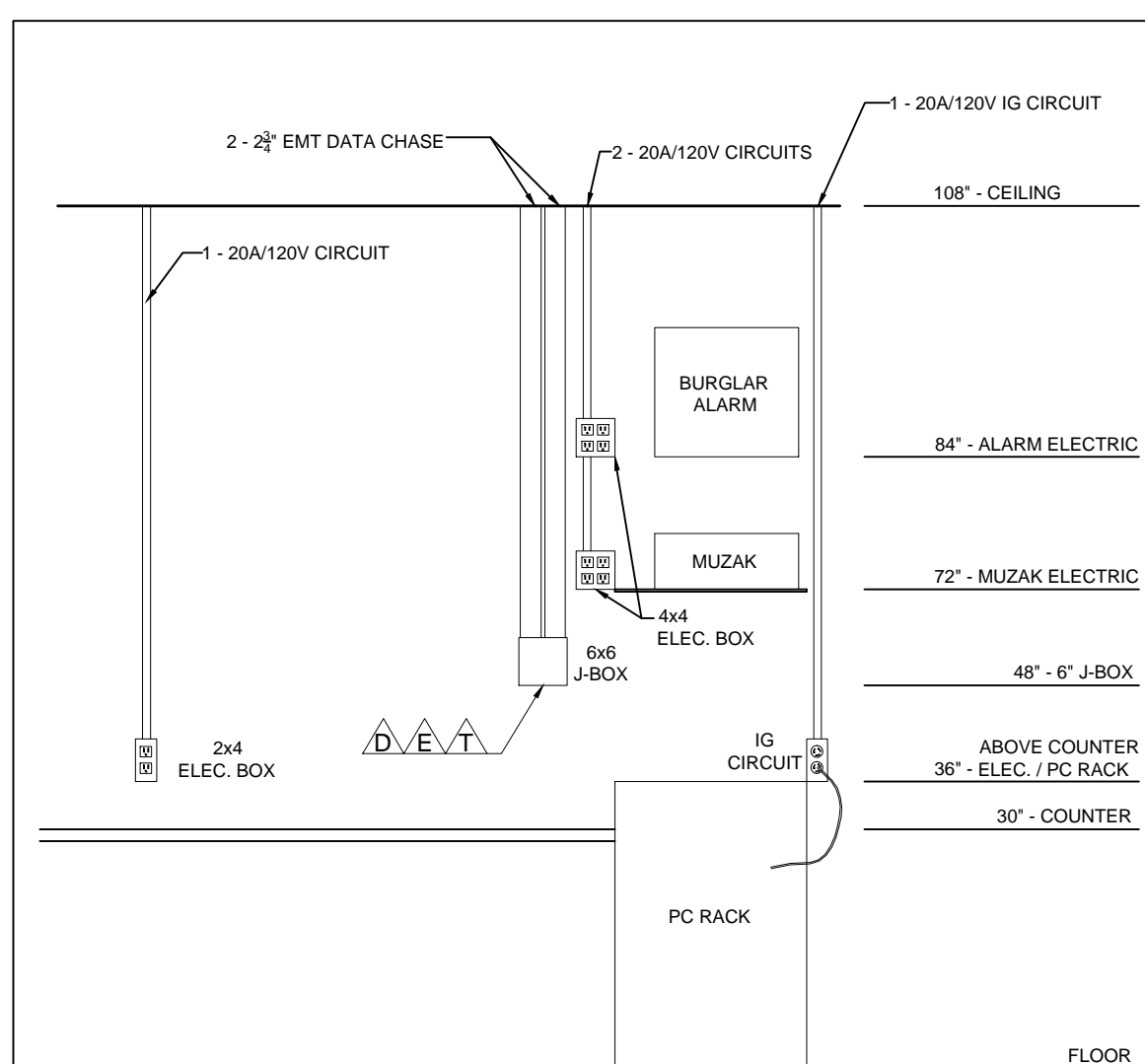
CONTRACTOR TO PROVIDE ONE (1) 120V/20amp ISOLATED GROUND CIRCUIT. CIRCUIT TO SUPPLY ONE (1) NEMA 5-20R ORANGE ISOLATED GROUND DUPLEX RECEPTACLES (HUBBELL CR5352IG) RECEPTACLES TO BE MOUNTED @ 36" A.F.F. DIRECTLY ABOVE THE COUNTERTOP MOUNTED AT 30" A.F.F.

CONTRACTOR TO PROVIDE A EMS/TELE/DATA/CAT-5 ROUGH-IN, A 6" BOX @ 48" A.F.F. WITH TWO(2) 2-1/2" EMT STUBBED ABOVE THE HARD CEILING, PULL STRING TO BE INCLUDED. THIS ROUGH-IN TO BE UTILIZED BY THE EMS, TELEPHONE, TELE/COM & I.T. CONTRACTOR AT A LATER DATE.

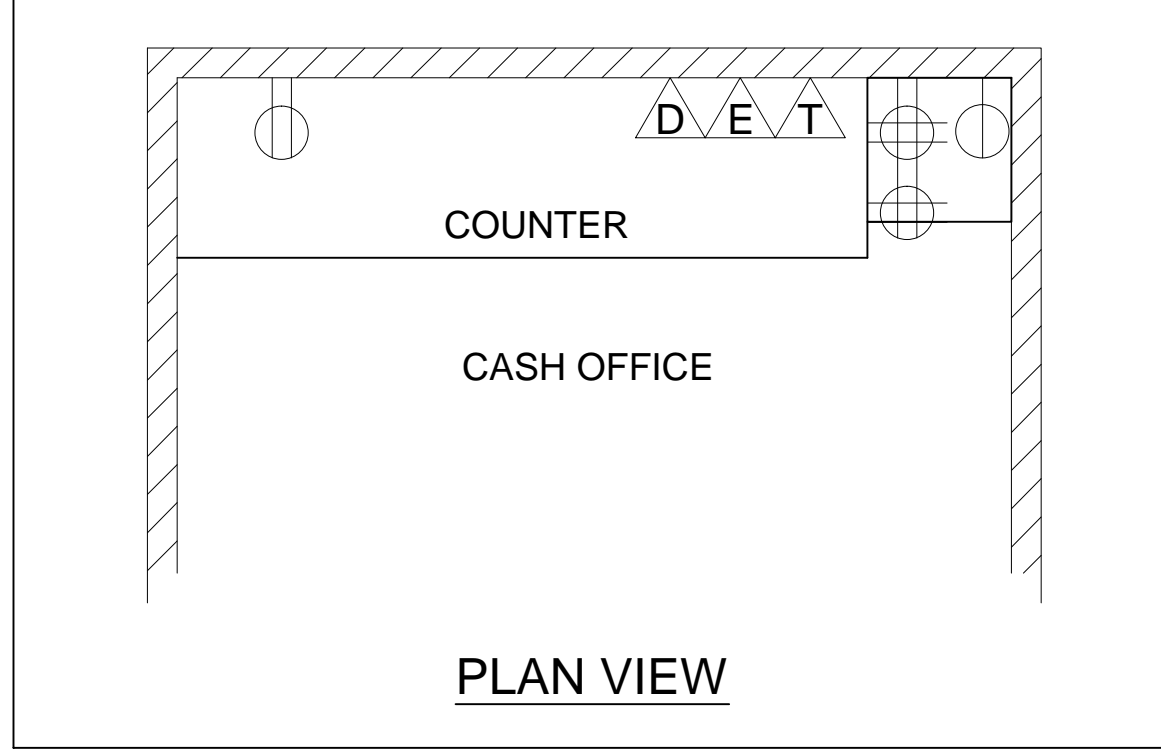
**BURGLAR ALARM & MUZAK SYSTEMS:**

ALARM - CONTRACTOR TO PROVIDE ONE(1) 120V/20A CIRCUIT TO SUPPLY TWO(2) NEMA 5-20R DUPLEX RECEPTACLES (HUBBLE HBL 5352 OR EQUIVALENT) WITHIN A 4' BOX @ 72" AFF, CIRCUIT TO HAVE BREAKER.

MUZAK - CONTRACTOR TO PROVIDE ONE(1) 120V/20A CIRCUIT TO SUPPLY TWO(2) NEMA 5-20R DUPLEX RECEPTACLES (HUBBLE HBL 5352 OR EQUIVALENT) WITHIN A 4' BOX @ 60" AFF, CIRCUIT TO HAVE BREAKER.



**ELEVATION VIEW**



**8) EMPLOYEE LOUNGE:**

CONTRACTOR TO PROVIDE THREE (3) 120V/20 amp CIRCUITS. CIRCUITS TO SUPPLY THREE (3) NEMA 5-20R GENERAL DUTY DUPLEX RECEPTACLES (HUBBELL HBL 5352, OR EQUIVALENT).

**9) MANAGER OFFICE:**

CONTRACTOR TO PROVIDE TWO (2) 120V/20 AMP CIRCUITS. CIRCUITS TO SUPPLY FOUR (4) NEMA 5-20R GENERAL DUTY DUPLEX RECEPTACLES (HUBBELL HBL 5352, OR EQUIVALENT)

**10) BALER OR COMPACTOR:**

CONTRACTOR TO PROVIDE -  
- IF 277/480v SERVICE IS AVAILABLE - PROVIDE ONE (1) 480V/30 AMP CIRCUIT. CIRCUIT TO SUPPLY ONE (1) 30 AMP FUSED DISCONNECT  
- IF 120/208v SERVICE IS AVAILABLE - PROVIDE ONE (1) 208/60 AMP CIRCUIT. CIRCUIT TO SUPPLY ONE (1) 60 AMP FUSED DISCONNECT

**11) DOCK LIFT (if applicable):**

CONTRACTOR TO PROVIDE ONE (1) THREE PHASE DISCONNECT TO BE INSTALLED MINIMUM (18) EIGHTEEN INCHES A.F.F., NEAR RECEIVING DOOR, AS DIRECTED. THE MOTOR IS MULTI TAP, ABLE TO OPERATE AT 208/230/3160 OR 460/3160, FROM THE SOURCE CIRCUIT. IF A SOUTH WORTH LIFT IS PROVIDED THE MOTOR SIZE IS 3.2 HP, AND IF AN ADVANCE LIFT IS PROVIDED THE MOTOR SIZE IS 5 HP, WIRE AND FUSE ACCORDINGLY.

**12) DOOR BELLS:**

CONTRACTOR TO PROVIDE TWO (2) 24v, COMMERCIAL GRADE DOORBELLS. ONE (1) AT THE RECEIVING DOOR AND ONE (1) AT THE STOREFRONT DOORS.

**13) PHONE SYSTEM:**

CONTRACTOR TO PROVIDE TWO (2) 120V/20amp CIRCUITS. CIRCUITS TO SUPPLY TWO (2) NEMA 5-20R DUPLEX RECEPTACLES (HUBBELL HBL 5352 OR EQUIVALENT) WITHIN A 4' BOX (DOUBLE DUPLEX) ALL CIRCUITS TO HAVE BREAKER LOCKS.

**14) LAMP WALL PLUG MOLD:**

CONTRACTOR TO PROVIDE TWO (2) 120V/20 AMP CIRCUITS. CIRCUITS TO SUPPLY 16" OF PLUG MOLD WITH RECEPTACLES @ 6" ON CENTER, ATTACHED TO THE WALLCASE GONDOLA @ 48" A.F.F.. SWITCH REQUIRED AT PLUG MOLD LOCATION.

**15) STORE LIGHTING:**

CONTRACTOR TO LABEL BREAKERS WITH DESCRIPTION AND AMP DRAW PER CIRCUIT.

WIRING INSTRUCTIONS ARE AS FOLLOWS. CONTRACTOR TO WIRE EVERY OTHER FIXTURE AND EVERY OTHER ROW ON A SEPARATE CIRCUIT BREAKER ON SALES FLOOR AND STOCK ROOM. CIRCUIT BREAKERS ARE TO BE GROUPED BY CONTRACTOR THE FOLLOWING WAY: EMPLOYEE CONTACTOR (CONTROLS ALL OFFICE, CASH, COUNT, BATHROOMS, RECEIVING AREA, AND STOCK ROOM. GROUP A 25% CONTACTOR (CONTROLS APPROXIMATELY THE NEXT 25% OF SALES FLOOR LIGHTS); GROUP B 50% CONTACTOR, (CONTROLS THE NEXT 25% OF SALES FLOOR LIGHTING); GROUP C 75% CONTACTOR, (CONTROLS THE NEXT 25% OF SALES FLOOR LIGHTING; GROUP D 100% CONTACTOR (CONTROLS THE BALANCE 25% OF SALES FLOOR LIGHTING); GROUP E CONTACTOR EXTERIOR SIGNS (CONTROLS ALL EXTERIOR BUILDING SIGNS INCLUDING PYLON SIGN); GROUP F CONTACTOR (CONTROLS ANY WALL PACK LIGHTING, PARKING LOT LIGHTING AND CANOPY LIGHTING NOT CONTROLLED BY LANDLORD).

**16) DOCK LIGHT (if applicable):**

CONTRACTOR TO PROVIDE ONE (1) 120V/20 AMP CIRCUIT. CIRCUIT TO SUPPLY NEMA 5-20R GENERAL DUTY DUPLEX RECEPTACLE (HUBBELL HBL 5352, OR EQUIVALENT). SWITCH REQUIRED AT RECEPTACLE LOCATION. MOUNT RECEPTACLE/SWITCH @ 48" A.F.F. BETWEEN DOORS OR WITHIN 12" OF DOOR FRAME.

**17) WATER COOLER:**

CONTRACTOR TO PROVIDE ONE (1) 120V/20 AMP CIRCUIT. CIRCUIT TO SUPPLY A EXCEL MODEL XL-W ELECTRIC HAND DRYER, MOUNTED PER ALL LOCAL, STATE, FEDERAL AND ADA CODES OR REGULATIONS.

**18) HAND DRYER:**

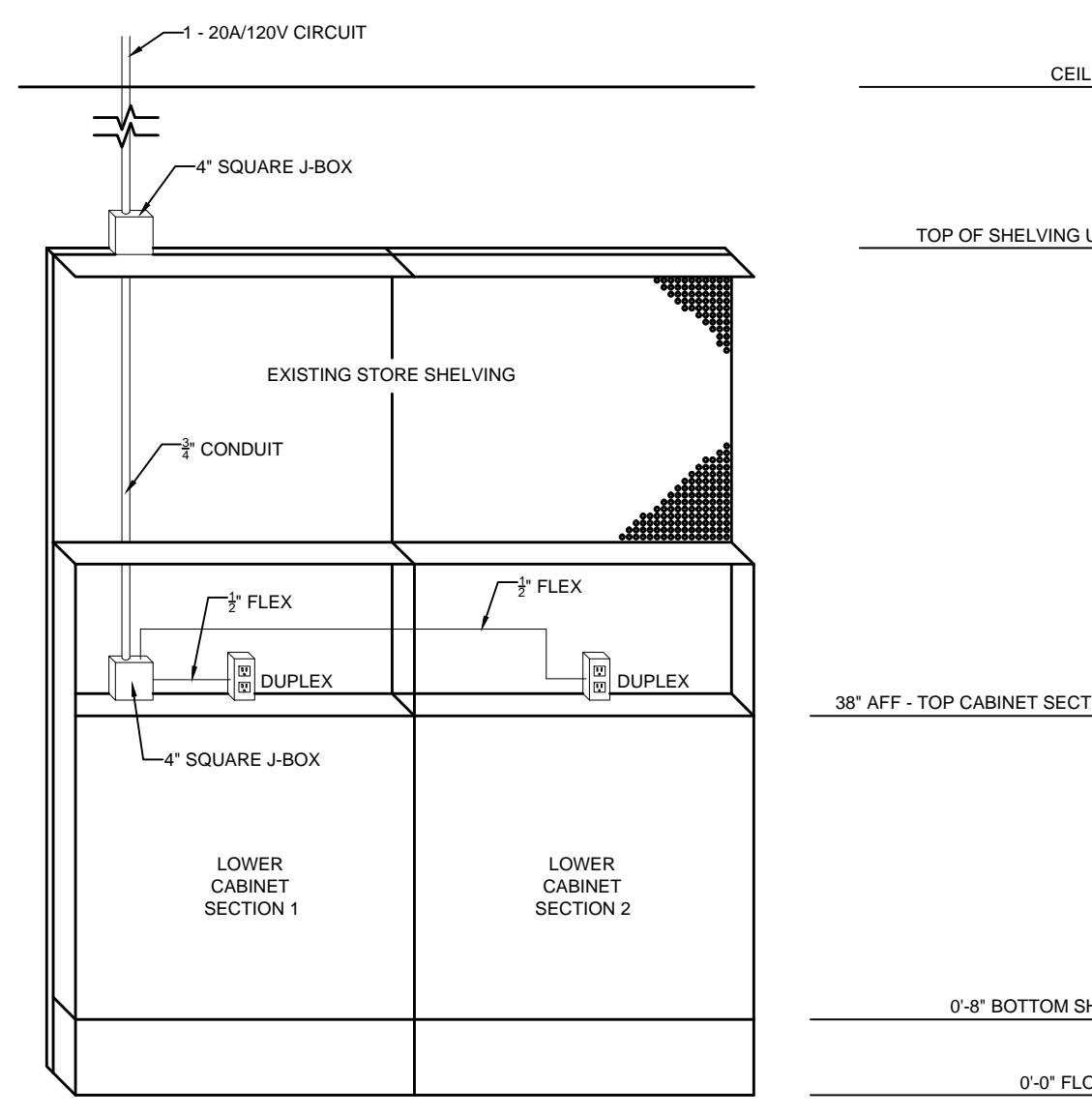
CONTRACTOR TO PROVIDE HAND DRYERS AND ONE (1) 120V/20 AMP CIRCUIT (per unit). CIRCUIT TO SUPPLY A EXCEL MODEL XL-W ELECTRIC HAND DRYER, MOUNTED PER ALL LOCAL, STATE, FEDERAL AND ADA CODES OR REGULATIONS.

**19) MOTION SENSOR SWITCHES:**

INSTALL LEVITON ODS10 - IDW MOTION SENSOR SWITCHES AS INDICATED ON SHEET E-1.

**20) ELECTRONIC DISPLAY CABINET:**

- PROVIDE 1 DEDICATED 20 AMP 120 VOLT CIRCUIT (WITH SEPARATE NEUTRAL CONDUCTORS) FOR THE NEW ELECTRONIC DISPLAY CABINET. INSTALL BREAKER LOCKS ON CIRCUIT BREAKERS.
- ROUTE NEW CIRCUITS IN EXISTING CONDUIT (IF POSSIBLE) FROM AN AVAILABLE ELECTRIC PANEL TO THE CEILING ABOVE THE STORES SHELVING UNIT.
- INSTALL A 3/4" EMT CONDUIT FROM THE CEILING DOWN TO A 4" SQUARE METAL JUNCTION BOX. MOUNT THE BOX ON TOP OF THE SHELVING UNIT.
- INSTALL A 3/4" EMT CONDUIT FROM THE SHELVING UNIT JUNCTION BOX TO A 4" SQUARE BOX. LOCATE THE BOX INSIDE THE TOP SECTION OF THE NEAREST DISPLAY CABINET. ROUTE THE CONDUIT BEHIND THE 3" VOID ON THE TOP SECTION. FROM THAT JUNCTION BOX, INSTALL A 3/4" FLEXIBLE CONDUIT WITH 3-#12 THIN WIRES TO EACH CABINET. TERMINATE EACH RACEWAY IN A SINGLE GANG BOX WITH A DUPLEX RECEPTACLE AND COVER.



No.	Description

**ENGINEERING**  
D. Wilson POU  
No. 037459  
4/12/13  
4792-A, No. 10, 31 East Greenville, NC 27838  
E-Mail Address: graham@biglots.com  
New 2521 439-0338 Fax 2521 439-0462

**Mark Smith Architect**  
415 Grappenthal Court  
Winterville, North Carolina 28990  
(252) 777-4215 mark@marksmitharchitect.com

**MSA**

BIG LOTS AND FOUR LEASE SPACES  
BIG LOTS  
2660 WEIR PLACE  
CHESTER VIRGINIA

Date: APR 12, 2013  
Drawing no.  
**E301**

**KEY NOTES FOR BIG LOTS REQUIREMENTS & DETAILS**



DEVICE SCHEDULE					
SYMBOL	DEVICE	QUANTITY	DEVICE LOCATION	DEVICE CABLE TYPE	NOTES
Ⓢ	CARBON DIOXIDE SENSOR	1	MAIN SPACE, MOST CENTRALLY LOCATED, ABOVE/BESIDE D2C	18/2 (X2)	
Ⓣ	DUCT TEMPERATURE SENSOR	1 PER ROOFTOP UNIT	BOTTOM OF MAIN SUPPLY AIR DUCT DROP	18/2	1
Ⓝ	DIGITAL ZONE CONTROLLER	1 PER ROOFTOP UNIT (AND ADDITIONAL HVAC)	IN ZONE BEING SERVED	18/10	2
Ⓤ	ENERGY METER	1 PER MDP	MAIN 3-PHASE SUPPLY NEAR UTILITY METER	24/1P (COMM CABLE TO SLP)	3
Ⓛ	LIGHTING CONTROL PANEL	1	NEAR BREAKER PANELS	18/10 PLUS ALL REQ'D LINE VOLTAGE	
Ⓞ	OUTSIDE SENSING DEVICE	1	ROOF	18/2 (X2)	
Ⓟ	POWER INTERFACE PANEL	1	ELECTRICAL ROOM (UNDER SLP)	(1) 18/2, OTHER (SEE POINT TO POINT DWGS)	5
Ⓢ	SCREAM LOGIC PANEL	1	ELECTRICAL ROOM	VARIES PER CONNECTED DEVICE	

INSTALLATION RESPONSIBILITIES						
SYMBOL	DEVICE	PROVIDED BY	MOUNTING	BOX/RACEWAYS	TERMINATION OF WIRES AT BOTH ENDS	NOTES
Ⓢ	CARBON DIOXIDE SENSOR	SIEMENS	MC		MC	
Ⓣ	DUCT TEMPERATURE SENSOR	SIEMENS	MC		MC	1
Ⓝ	DIGITAL ZONE CONTROLLER	SIEMENS	MC		MC	2
Ⓤ	ENERGY METER	SIEMENS	EC		EC	3
Ⓛ	LIGHTING CONTROL PANEL	SIEMENS	EC		MC	4,8
Ⓞ	OUTSIDE SENSING DEVICE	SIEMENS	EC		EC	
Ⓟ	LIGHTING OVERRIDE PANEL (4 BUTTON)	SIEMENS	MC		MC	
Ⓟ	POWER INTERFACE PANEL	SIEMENS	EC		ECMC	4,5,6
Ⓢ	SCREAM LOGIC PANEL	SIEMENS	EC		ECMC	7

- NOTES**
- ONE DUCT SENSOR IN THE SUPPLY AIR DUCT OF EACH RTU, MINIMUM 6 FEET BELOW ROOF DECK.
  - ONE D2C FOR EACH ROOFTOP, ONE D2C FOR ANY OTHER HVAC DEVICE (IF SPECIFIED).
  - MOUNT EMCTS ON 3-PHASE BUSS BARS AT MDP AFTER UTILITY METER AND BEFORE TRANSFORMERS AND BRANCH CIRCUITS.
  - M.C. SHALL INSTALL LOW VOLTAGE CABLE IN RACEWAYS PROVIDED BY E.C. AND TERMINATE BOTH ENDS. - LINE VOLTAGE WIRING AND TERMINATIONS BY E.C.
  - E.C. SHALL PROVIDE AND INSTALL A DEDICATED 120V, 20A CIRCUIT TO POWER THE PIP LABEL BREAKER EMS-2.
  - INTERCONNECTING CABLING BETWEEN THE PIP AND SLP SHALL BE INSTALLED BY THE M.C. AND THE GROUND CONNECTION BY THE E.C.
  - WITH THE EXCEPTION OF THE OSD AND ENERGY METERS THE M.C. SHALL TERMINATE ALL LV CABLES IN THE SLP.
  - E.C. SHALL PROVIDE AND INSTALL A DEDICATED 120V, 20A CIRCUIT TO POWER THE LCP LABEL BREAKER EMS-1.
  - FOR FUTURE USE, MC PULLS WIRE THROUGH BOX/RACEWAY PROVIDED BY EC, COIL UP AND LABEL IN SLP AND COIL UP NEXT TO SECURITY PANEL.

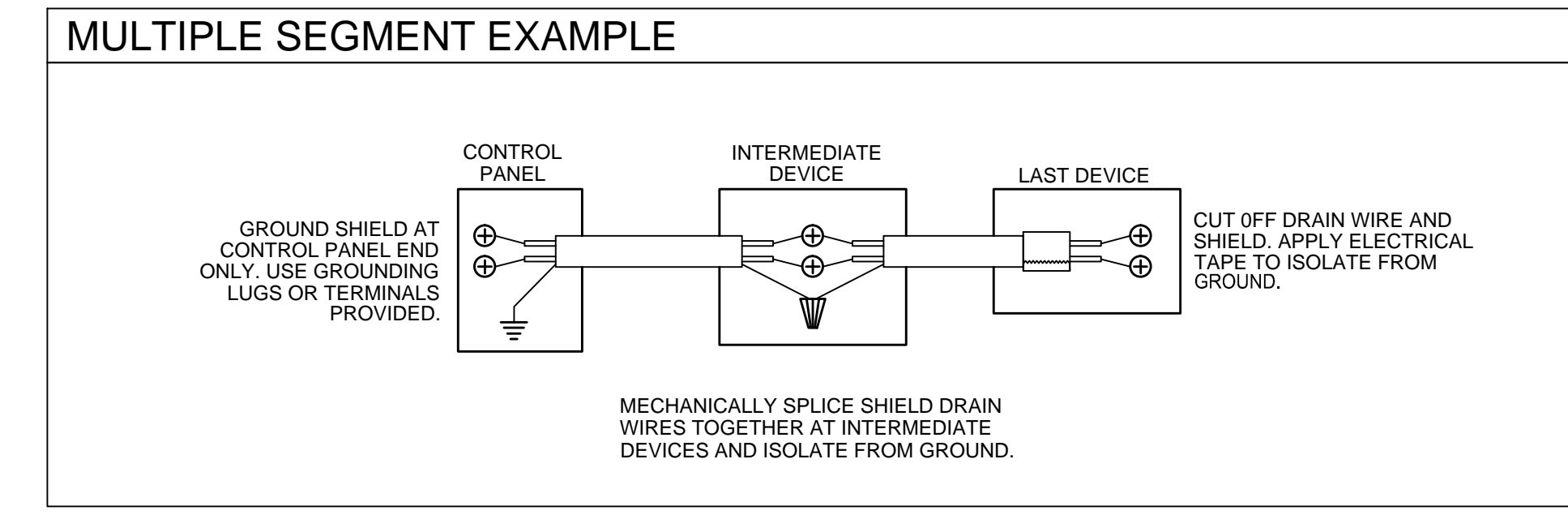
CABLE SCHEDULE			
CABLE	SIZE	TYPE	MFG./MODEL
18/2	18AWG/2-CONDUCTOR	SHIELDED, STRANDED, PLENUM RATED	BELDEN6300FE NON-PAIRED COMTRAN3644
			TAPPAN1880AB2M-CMP
18/10	18AWG/10-CONDUCTOR	UNSHIELDED, STRANDED, PLENUM	BELDEN6308UE NON-PAIRED LAKE CABLE/P1810C-WIN
			TAPPAN1880AB10-CMP
24/1P	24AWG/1-TWISTED PAIR	SHIELDED, STRANDED, PLENUM RATED, TWISTED PAIR	BELDIN82841 PAIRED LAKE CABLE/PP242CS
			TAPPAN2468ATIM-CMP
CAT5	24AWG/4-UTP	UNSHIELDED SOLID CONDUCTOR TWISTED PAIR	BELDEN 1583A CAT5

- GENERAL EMS CONSTRUCTION NOTES:**
- THE MECHANICAL CONTRACTOR SHALL PROVIDE THE INSTALLATION LABOR AND MATERIALS TO INSTALL THE LOW VOLTAGE PORTION OF THE CUSTOMER SUPPLIED EMS SYSTEM ACCORDING TO THE EMS SCHEDULES AND THE FOLLOWING:
    - INSTALL EMS DEVICES AT LOCATIONS SHOWN ON THE MECHANICAL DRAWINGS AND MOUNT ACCORDING TO THE EMS DETAILS.
    - PROVIDE AND INSTALL THE LOW VOLTAGE CABLING FROM THE EMS DEVICES TO THE RTUS, SLP, AND LCP
    - TERMINATE THE LOW VOLTAGE CABLING AT BOTH ENDS.
    - CLEARLY IDENTIFY (LABEL) THE CABLES AT BOTH ENDS.
  - THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE INSTALLATION LABOR AND MATERIALS TO INSTALL THE LINE VOLTAGE PORTION OF THE CUSTOMER SUPPLIED EMS SYSTEM ACCORDING TO THE EMS SCHEDULES AND THE FOLLOWING:
    - PROVIDE AND INSTALL ELECTRICAL BOXES WITH 3/4" EMT STUB-UPS TO ABOVE CEILING GRID FOR WALL MOUNTED EMS AND CONTROL DEVICES.
    - MOUNT EMS PANELS AND PIPE TOGETHER ACCORDING TO THE EMS DRAWINGS.
    - INSTALL THE ENERGY METER AT THE MAIN DISTRIBUTION PANEL, INSTALL AND TERMINATE COMMUNICATIONS CABLE.
    - PROVIDE AND INSTALL AN 8' SECTION OF 1/2" RIGID FOR ROOF MOUNTED OSD, INSTALL AND TERMINATE OSD AND CABLE.
    - PROVIDE AND INSTALL (1) EACH 120V, 20A CIRCUIT TO POWER THE PIP LABEL PIP BREAKER "EMS-2"
  - ALL WIRING SHALL CONFORM TO NATIONAL AND STATE ELECTRICAL CODES.
  - NOTES ABOVE DO NOT ALLEVIATE CONTRACTORS OF OVERALL RESPONSIBILITIES OF PROVIDING A COMPLETE AND OPERATIONAL SYSTEM.

- INSTALLATION SUMMARY**
- LOW VOLTAGE CABLE
    - THE M.C. SHALL FURNISH THE LOW VOLTAGE CABLE FOR THE EMS SYSTEM. THE CABLE SHALL BE AS SPECIFIED IN THE CABLE SCHEDULE.
  - EQUIPMENT DELIVERY
    - SIEMENS SHALL PROVIDE THE EMS EQUIPMENT IN 1 SHIPMENT.
    - IT SHALL BE UP TO THE G.C. TO CALL FOR EMS EQUIPMENT DELIVERY. THE EQUIPMENT WILL BE SHIPPED WITHIN 2 DAYS OF RECEIVING A VALID REQUEST. A VALID REQUEST SHALL CONSIST OF THE FOLLOWING:
      - NAME AND PHONE NUMBER OF PERSON RESPONSIBLE FOR RECEIVING THE EMS EQUIPMENT AND STORE NUMBER
      - A VALID SHIPPING ADDRESS (CONFIRMABLE BY THE DELIVERY AGENT).
  - CONTACT INFORMATION
    - PLEASE DIRECT ALL SHIPPING REQUESTS TO SIEMENS AT (512) 306-9400
  - EMS COMMISSIONING
    - IT SHALL BE UP TO THE G.C. TO CALL FOR EMS COMMISSIONING AT LEAST 2 WEEKS PRIOR TO TURN OVER AND BEFORE THE INSTALLING CONTRACTOR HAS LEFT THE PROJECT.
      - SIEMENS WILL COMMISSION THE EMS SYSTEM UPON RECEIVING A VALID REQUEST AND AFTER THE FOLLOWING CONDITIONS HAVE BEEN MET:
        - ALL EMS DEVICES AND PANELS HAVE BEEN INSTALLED, WIRED AND TERMINATED
        - ALL LINE VOLTAGE WIRING HAS BEEN COMPLETED
        - ALL CONTROLLED EQUIPMENT HAS BEEN INSTALLED AND STARTED
    - FAILURE TO MEET THESE CONDITIONS COULD RESULT IN DELAY OF STORE OPENING

- GENERAL LV CABLE INSTALLATION INSTRUCTIONS**
- HOME RUNS
    - LOW VOLTAGES CABLES SHALL BE PULLED FROM DEVICE TO CONTROL PANEL, WITHOUT SPLICING.
  - COMMUNICATIONS CABLING
    - IN THE CASE OF MULTIPLE DEVICES SUCH AS COMMUNICATIONS CABLING, THE CABLE SEGMENTS SHALL BE PULLED FROM DEVICE TO DEVICE WITHOUT SPLICING.
  - CABLE SHIELD GROUNDING
    - EACH CABLE RUN SHALL BE GROUNDED AT ONE END ONLY. GROUND SHIELD DRAIN WIRE AT CONTROL PANEL END, FASTEN DRAIN WIRE TO EARTH GROUND SCREWS PROVIDED. THE SHIELD AND DRAIN WIRE SHALL BE REMOVED FROM THE OPPOSITE (DEVICE) END AND ISOLATED FROM GROUND.
    - IN THE CASE OF MULTIPLE DEVICES SUCH AS COMMUNICATIONS WIRING, THE SHIELD DRAIN WIRES AT THE INTERMEDIATE DEVICES SHALL BE MECHANICALLY SPLICED TOGETHER AND ISOLATED FROM GROUND.
  - TESTING SHIELD GROUNDS
    - DURING COMMISSIONING THE FIELD SERVICE REPRESENTATIVE (FSR) WILL TEST THE SHIELD GROUNDING AT THE CONTROL PANEL. SHIELDS FOUND TO HAVE CONTINUITY LESS THEN 100K OHM TO GROUND SHALL BE REJECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING SHIELD GROUND FAULTS.

- GENERAL NON-EMS CONTROLS NOTES:**
- COMBUSTION AIR VENTILATION AND OTHER EQUIPMENT
    - CONTROLS FOR COMBUSTION AIR VENTILATION AND ANY OTHER EQUIPMENT NOT SPECIFICALLY MENTIONED IN THE EMS SCHEDULES SHALL BE FURNISHED AND INSTALLED ACCORDING TO THE MECHANICAL AND ELECTRICAL BID DOCUMENTS.
  - EXHAUST FAN, TRANSFER FAN AND OTHER "HARD-WIRED" INTERLOCKS (SEE INTERLOCK EXAMPLE BELOW)
    - WHEN HARD-WIRED INTERLOCKING IS SPECIFIED IN THE MECHANICAL AND/OR ELECTRICAL SCHEDULES, THE INTERLOCKS SHALL BE FURNISHED AND INSTALLED BY THE TRADES SPECIFIED. INTERLOCKING IS NOT PART OF
    - WHERE EXHAUST FAN AND RTU INTERLOCKS ARE CALLED OUT, THE CONTRACTOR SHALL CONNECT DIRECTLY TO THE SUPPLY FAN CONTACTOR COIL AND WIRE IN PARALLEL TO THE COIL OF A PROPERLY SIZED CONTACTOR OR STARTER SERVING THE INTERLOCKED EQUIPMENT. DO NOT USE THE EMS SYSTEM TO INTERLOCK EQUIPMENT.
  - LIFE SAFETY AND FIRE ALARM SYSTEMS
    - LIFE SAFETY AND FIRE ALARM SYSTEMS ARE NOT PART OF THE EMS SYSTEM AND SHALL BE FURNISHED AND INSTALLED AS SPECIFIED IN THE MECHANICAL AND ELECTRICAL BID DOCUMENTS.
    - MECHANICAL EQUIPMENT SHUTDOWN SHALL BE WIRED AS TO NOT AFFECT THE EMS SYSTEM.
  - MANUFACTURER SUPPLIED HUMIDITY CONTROLLERS
    - DEHUMIDIFYING ROOFTOP UNITS
      - SOME ROOFTOP UNITS MAY COME EQUIPPED WITH A DEHUMIDIFICATION CYCLE AND SPACE HUMIDITY SENSOR. THIS SENSOR SHALL BE INSTALLED IN ADDITION TO THE EMS SYSTEM AND ACCORDING TO THE MANUFACTURER'S INSTRUCTION.



# INSTALLATION INFORMATION FOR ENERGY MANAGEMENT SYSTEM (EMS) PROVIDED BY BIG LOTS

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**Mark Smith Architect**  
 415 Grappenhall Court  
 Winterville, North Carolina 28990  
 (252) 717-4215 [mark@marksmitharchitect.com](mailto:mark@marksmitharchitect.com)

**MSA**  
 BIG LOTS AND FOUR LEASE SPACES  
**BIG LOTS**  
 2660 WEIR PLACE CHESTER VIRGINIA

Description: \_\_\_\_\_  
 No: \_\_\_\_\_  
 Date: **APR 12, 2013**  
 Drawing no: **E302**  
 108 NO. P51A020





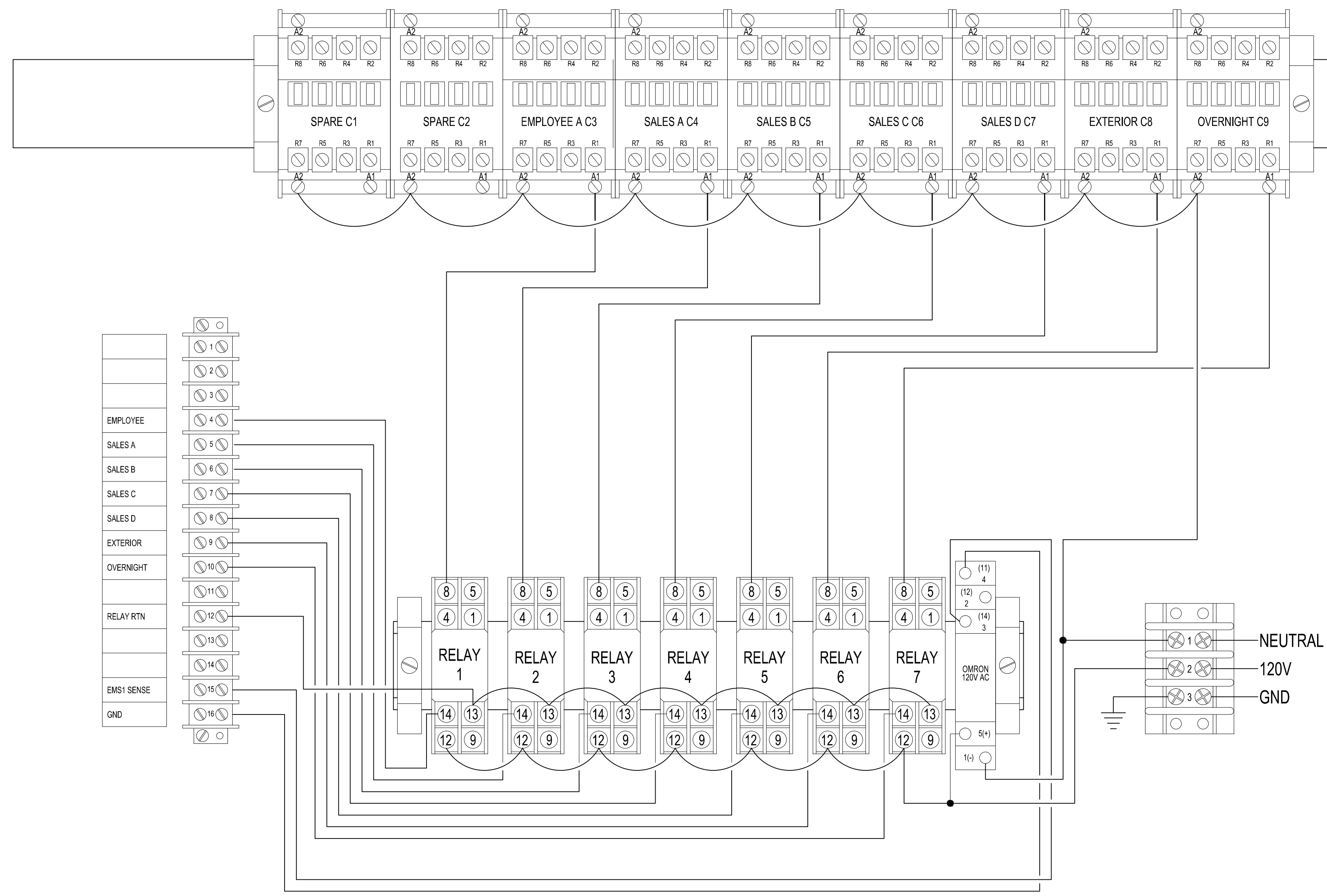
**(LCP) LIGHTING CONTROL PANEL - CONTACTOR SCHEDULE**

SALES DISPLAYS CONTACTOR 1		SALES DISPLAYS CONTACTOR 2		EMPLOYEE A CONTACTOR 3		SALES A CONTACTOR 4		SALES B CONTACTOR 5		SALES C CONTACTOR 6		SALES D CONTACTOR 7		EXTERIOR CONTACTOR 8		OVERNIGHT CONTACTOR 9	
CIRCUIT	TERMINAL	CIRCUIT	TERMINAL	CIRCUIT	TERMINAL	CIRCUIT	TERMINAL	CIRCUIT	TERMINAL	CIRCUIT	TERMINAL	CIRCUIT	TERMINAL	CIRCUIT	TERMINAL	CIRCUIT	TERMINAL
	R2		R2	M	R2	A	R2	B	R2	C	R2	D	R2	AA	R2		R2
	R4		R4	(HL-1)	R4	E	R4	(HL-13)	R4	(HL-9)	R4	(HL-14)	R4	(SL-1)	R4		R4
	R6		R6	(HL-3)	R6	F	R6	(HL-17)	R6	(HL-10)	R6	(HL-16)	R6	(SL-3)	R6		R6
	R8		R8	(HL-5)	R8	G	R8	(HL-15)	R8	(HL-12)	R8	(HL-18)	R8	(SL-2)	R8		R8

**STORE LIGHTING: (TENANT NOTES)**

CONTRACTOR TO LABEL BREAKERS WITH DESCRIPTION AND AMP DRAW PER CIRCUIT.

WIRING INSTRUCTIONS ARE AS FOLLOWS: CONTRACTOR TO WIRE EVERY OTHER FIXTURE AND EVERY OTHER ROW ON A SEPARATE CIRCUIT BREAKER ON SALES FLOOR AND STOCK ROOM AS INDICATED ON LIGHTING PLANS. CIRCUIT BREAKERS ARE TO BE GROUPED AS FOLLOWS AND AS SHOWN ON PANEL SCHEDULES: EMPLOYEE CONTACTOR (CONTROLS ALL OFFICE, CASH, COUNT, BATHROOMS, RECEIVING AREA, AND STOCK ROOM. GROUP A 25% CONTACTOR (CONTROLS APPROXIMATELY THE NEXT 25% OF SALES FLOOR LIGHTS); GROUP B 50% CONTACTOR (CONTROLS THE NEXT 25% OF SALES FLOOR LIGHTING); GROUP C 75% CONTACTOR (CONTROLS THE NEXT 25% OF SALES FLOOR LIGHTING); GROUP D 100% CONTACTOR (CONTROLS THE BALANCE 25% OF SALES FLOOR LIGHTING); GROUP E CONTACTOR EXTERIOR SIGNS (CONTROLS ALL EXTERIOR BUILDING SIGNS INCLUDING PYLON SIGN); GROUP F CONTACTOR (CONTROLS ANY WALL PACK LIGHTING, PARKING LOT LIGHTING AND CANOPY LIGHTING NOT CONTROLLED BY LANDLORD).



**BUILDING LIGHTING CONTROL PANEL WIRING DETAIL**  
SCALE: N.T.S.

WIRING DIAGRAM OF LIGHTING CONTROL PANEL PROVIDED BY BIG LOTS

No.	Description

**ENGINEERING**

D. Wilson P.O.  
No. 037459  
4/12/13

4791-A, NC Hwy 33 East, Greenville, NC 27638  
E-Mail Address: gennor@biglots.com  
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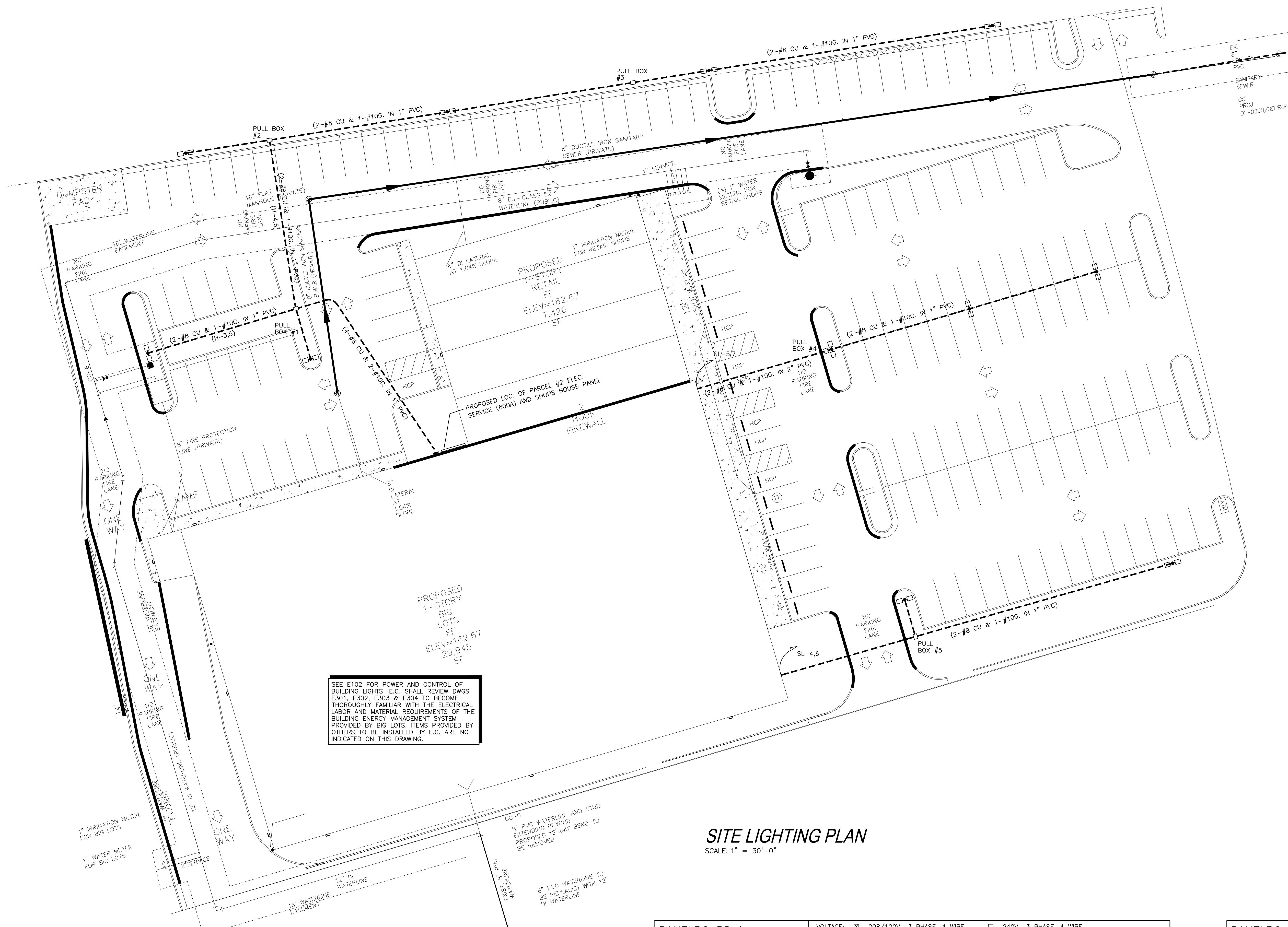
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BIG LOTS AND FOUR LEASE SPACES  
**BIG LOTS**  
2660 WEIR PLACE CHESTER VIRGINIA

Date: **APR 12, 2013**  
Drawing no. **E304**

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SEE E102 FOR POWER AND CONTROL OF BUILDING LIGHTS. E.C. SHALL REVIEW DWGS E301, E302, E303 & E304 TO BECOME THOROUGHLY FAMILIAR WITH THE ELECTRICAL LABOR AND MATERIAL REQUIREMENTS OF THE BUILDING ENERGY MANAGEMENT SYSTEM PROVIDED BY BIG LOTS. ITEMS PROVIDED BY OTHERS TO BE INSTALLED BY E.C. ARE NOT INDICATED ON THIS DRAWING.

**SITE LIGHTING PLAN**  
SCALE: 1" = 30'-0"

PANELBOARD_H		VOLTAGE: <input checked="" type="checkbox"/> 208/120V, 3 PHASE, 4 WIRE <input type="checkbox"/> 240V, 3 PHASE, 4 WIRE		NEUTRAL: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> 50% <input checked="" type="checkbox"/> 100%	
MOUNTING: <input type="checkbox"/> FLUSH SURFACE <input type="checkbox"/> TOP <input type="checkbox"/> BOTTOM		MAIN: <input type="checkbox"/> LUGS ONLY <input type="checkbox"/> MAIN BREAKER		FRAME: 100A BUS: <input type="checkbox"/> ALUMINUM <input checked="" type="checkbox"/> COPPER	
COVER: <input type="checkbox"/> DOOR WITH LOCK <input checked="" type="checkbox"/> DOOR WITHOUT LOCK		ALL BRANCH BREAKERS 20A 1 POLE UNLESS NOTED OTHERWISE U/L LISTED BREAKER INTERRUPTING CAPACITY: 22,000 A RMS, SYM. MIN.			
DESCRIPTION	LOAD	CKT NO.	DESCRIPTION	LOAD	PHASE LOAD (VA)
EXTERIOR BLDG LTG	500	1	IRRIGATION	250	750
SITE POLE LTG (SEE SITE LTG PLAN)	500	3	SITE POLE LTG (SEE SITE LTG PLAN)	750	1250
EXTERIOR CANOPY LTG	700	7	SPARE	700	1250
SPACE		9	SPACE		
		11			
		13			
		15			
		17			
		19			
		21			
		23			
		25			
		27			
		29			
		31			
		33			
		35			
		37			
		39			
		41			
PANELBOARD LOCATION: EXTERIOR WALL PARCEL #2 SERVICE		MANUFACTURER: SQ_D		TOTAL L1 1450	
		MODEL/CAT. NO.: NQ		TOTAL L2 1250	
		FEED: (SEE RISER)		TOTAL L3 1250	
				TOTAL VA 3950	

PANELBOARD_SL		VOLTAGE: 208 3 WIRE		NEUTRAL: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> 50% <input checked="" type="checkbox"/> 100%	
MOUNTING: <input type="checkbox"/> FLUSH SURFACE <input type="checkbox"/> TOP <input type="checkbox"/> BOTTOM		MAIN: <input type="checkbox"/> LUGS ONLY <input type="checkbox"/> MAIN BREAKER		FRAME: 100A BUS: <input type="checkbox"/> ALUMINUM <input checked="" type="checkbox"/> COPPER	
COVER: <input type="checkbox"/> DOOR WITH LOCK <input checked="" type="checkbox"/> DOOR WITHOUT LOCK		ALL BRANCH BREAKERS 20A 1 POLE UNLESS NOTED OTHERWISE U/L LISTED BREAKER INTERRUPTING CAPACITY: 22,000 A RMS, SYM. MIN.			
DESCRIPTION	LOAD	CKT NO.	DESCRIPTION	LOAD	PHASE LOAD (VA)
EXTERIOR BUILDING LTG	1000	1	EXTERIOR CANOPY LTG	490	1490
EXTERIOR BUILDING LTG	1000	3	SITE POLE LTG (SEE SITE LTG PLAN)	1000	2000
SITE POLE LTG (SEE SITE LTG PLAN)	1750	5	BUILDING SIGN	700	2450
EXTERIOR CANOPY LTG	700	7	SPACE		
SPACE		9			
		11			
		13			
		15			
		17			
		19			
		21			
		23			
		25			
		27			
		29			
		31			
		33			
		35			
		37			
		39			
		41			
PANELBOARD LOCATION: STOCK ROOM (BIG LOTS)		MANUFACTURER: SQ_D		TOTAL L1 4240	
		MODEL/CAT. NO.: NQ		TOTAL L2 4450	
		FEED: SEE RISER		TOTAL VA 8690	

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MSA

Big Lots

26650 WEIR PLACE CHESTER VIRGINIA

Date: **APR 12, 2013**

Drawing no. **E401**

# Big Lots New Store FA System Requirements

FA System Information Contact  
 Michael Poe (614) 278-6846, epoe@biglots.com  
 Fire Alarm Systems:

Big Lots requires that all Fire Alarms (FA) be installed per the Authority Having Jurisdiction for the area. If the AHJ does not require a FA for the space Big Lots will require that the flow and tamper switches from the sprinkler system serving the space be monitored.

Big Lots (BL) uses Consolidated Fire Protection (CFP) to monitor all FA's installed in new stores. Following the installation of the FA by the LL or GC, CFP will take over the monitoring. No third party monitoring will be needed. CFP needs to monitor any FA directly from two installed phone lines. Depending on the needs of the GC to pass C of O inspections the GC may install these lines and transfer them to BL following the inspections. If the FA has been installed by a third party the LL or GC should be prepared to supply CFP with all necessary programming information including zones, passwords, etc. The GC and FA installers should be prepared for direct contact by a CFP representative to facilitate scheduling for the reprogramming of the FA panel.

LL or GC must provide Big Lots with answers to the following questions following the execution of the lease:

- Does the GC intend to install a FA exclusive to our space or is it going to be integrated into a larger LL system? If the FA is exclusive to Big Lots please see notes below.
- If the FA is part of a larger LL system please provide information regarding monitoring company and contact numbers to add Big Lots store associates to the call list.

LL or GC must provide Big Lots with the following information after the FA installer has been selected:

- Site drawings in CAD format of the proposed FA
- Any plan review notes regarding FA installation as required by the AHJ.
- Contact information for the installing FA company
- FA installer specifications such as panel type, devices, etc.
- Inspection forms, record of completion, and as-builts left at the panel location in a binder per NFPA standards.

Big Lots also require that the installing FA company install a FA that can be monitored and repaired by CFP. BL requires use of one of the FACP's as listed below:

- FireLite MS9050
- Firelite MS9200UDLS
- Firelite MS9600
- Firelite 5
- Honeywell Vista 128FB
- EST 2
- EST 3
- Bosch 7412
- Bosch 9412
- Honeywell Vista 100
- Silent Knight 5208
- Silent Knight 5808
- Silent Knight 5820

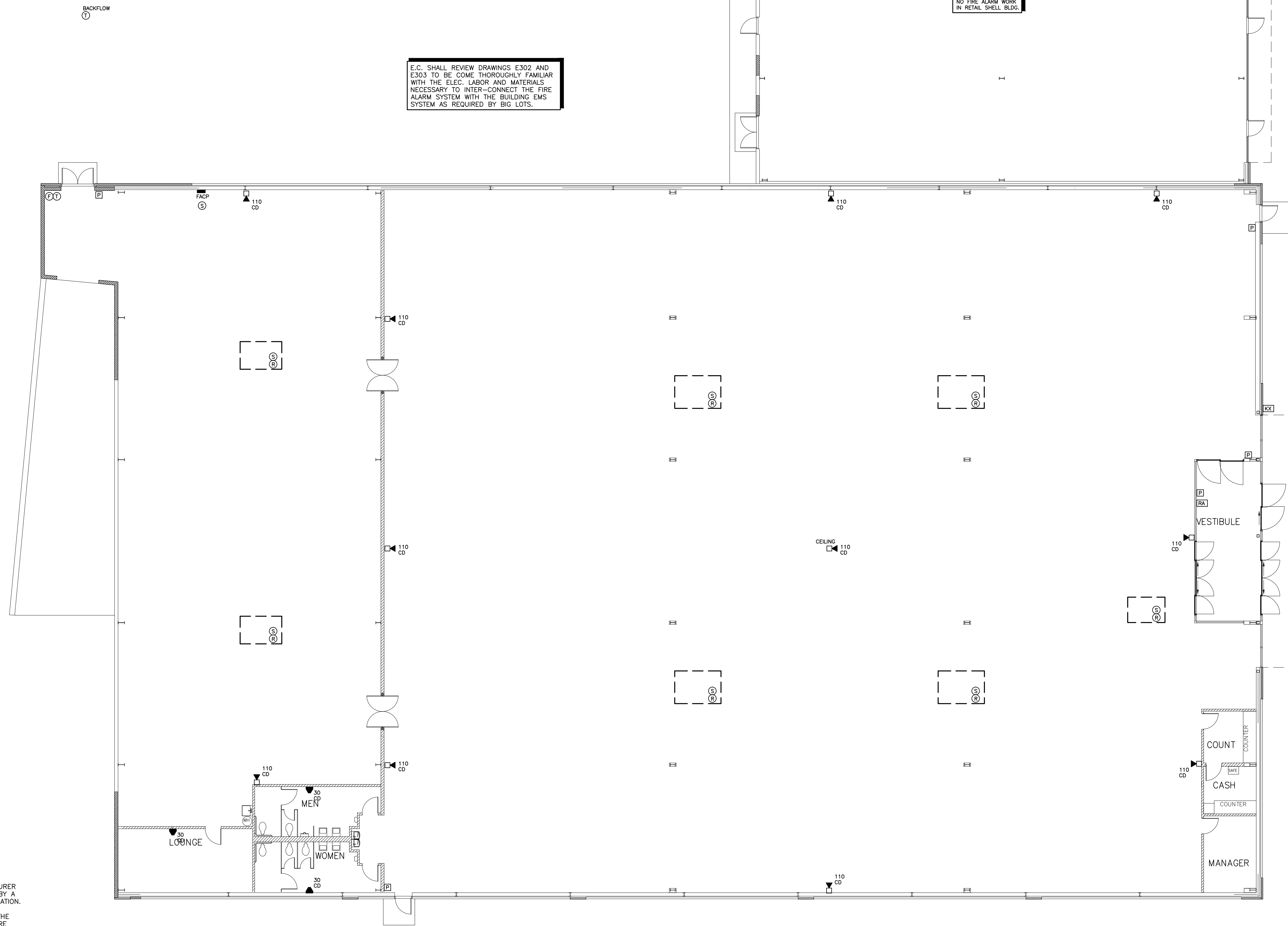
CFP to be notified two weeks before date of requested conversion. All communications formats for monitoring are to be in Contact ID. Permitting and inspections - Please communicate all ongoing FA permitting issues, timelines, installation deadlines, and completion dates with Michael Poe. If the LL is interested in contacting CFP directly for FA installation quotes: Elizabeth Parker - Consolidated Fire Protection - 949-870-3979, eparker@cfpfire.com

The GC will be responsible for contacting Celeste Doane (614-278-7041) to transfer phone lines following the installation of the FA.

FIRE ALARM SYMBOL LEGEND	
(SEE MOUNTING HEIGHT SCHEDULE FOR MOUNTING INFORMATION UNLESS NOTED OTHERWISE)	
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM HORN/STROBE
	FIRE ALARM STROBE
	SMOKE DETECTOR
	DUCT MOUNTED SMOKE DETECTOR, PROVIDED AND WIRED BY E.C., INSTALLED BY M.C.
	HEAT DETECTOR, CEILING MOUNTED
	MAGNETIC DOOR HOLDER & ASSOC. RELAY
	FIRE ALARM CONTROL PANEL, FLUSH MOUNTED
	REMOTE ANNUNCIATOR PANEL, FLUSH MOUNTED
	KNOX BOX (COORDINATE WITH LOCAL FIRE MARSHALL)
	RELAY
	DUCT MOUNTED SMOKE DETECTOR REMOTE INDICATOR LIGHT MOUNTED IN CEILING PROVIDED AND INSTALLED BY E.C., LABEL ACCORDING TO MECHANICAL UNIT SERVED.

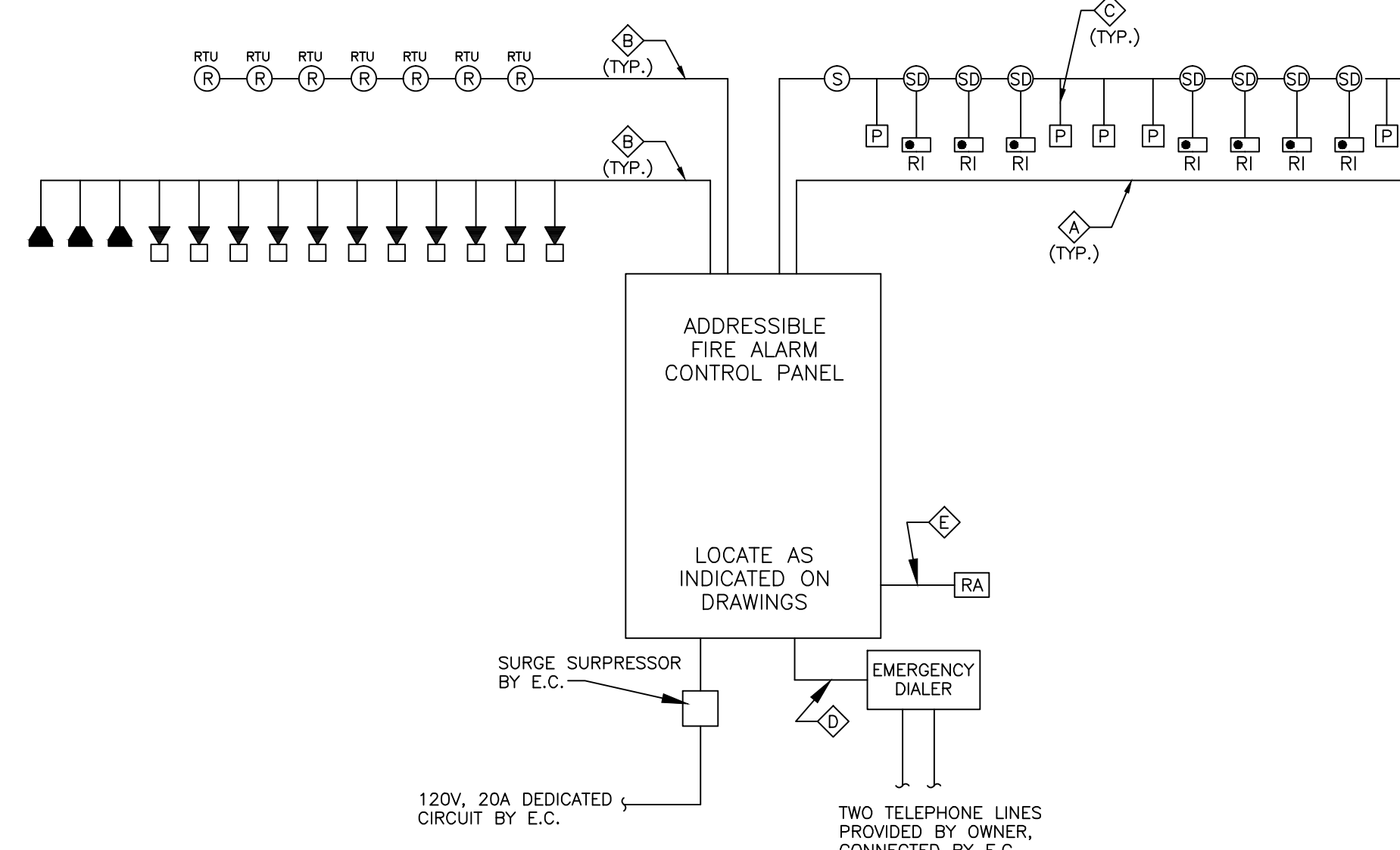
ELECTRICAL EQUIPMENT MOUNTING HEIGHTS		
DEVICE	MT HEIGHT	TO
PANEL BOARDS	6'-6" AFF	TOP
TOGGLE SWITCH (GYPSBOARD)	4'-0" AFF	C
TOGGLE SWITCH (MASONRY)	4'-0" AFF	TOP
RECEPTACLES	1'-6" AFF	C
RECEPTACLES (AT BASE CABINETS)	7" ACT	C
VOICE/DATA OUTLETS	1'-6" AFF	C
FIRE ALARM PULL STATIONS	4'-6" AFF	TOP
EMERGENCY LIGHTS	12" BFC	TOP
STROBE/HORNS	12" BFC OR 96" AFF MAX	TOP
REMOTE ANNUNCIATOR PANEL	4'-8" AFF	C
THERMOSTATS	4'-0" AFF	C
MANUAL SHUTDOWN SWITCHES (HVAC)	4'-0" AFF	C

NOTES:  
 1) TYPICAL MOUNTING HEIGHTS ARE LISTED U.N.O.  
 2) BFC=BELOW FINISHED CEILING, ACT=ABOVE CABINET TOP  
 3) THE ABOVE LISTED EQUIPMENT IS SHOWN FOR CLARITY OF MOUNTING HEIGHT ONLY. ALL DEVICES MAY NOT BE USED ON THIS PROJECT OR SHOWN ON THESE DRAWINGS.



**FIRE ALARM PLAN**  
 SCALE: 3/32"=1'-0"

WIRE LEGEND	
	1 PAIR #16 SHIELDED CABLE
	2 COND. #14 THHN
	4 COND. #14 THHN
	8 COND. #22
	2 PAIR #18 SHIELDED + 2 COND. # 14 THHN



**FIRE ALARM RISER**  
 SCALE: N.T.S.

### FIRE ALARM INSTALLATION NOTES:

- FIRE ALARM SHALL BE INSTALLED BY A MANUFACTURER APPROVED INSTALLATION COMPANY AND SUPERVISED BY A TECHNICIAN WITH A MINIMUM NICET LEVEL III CERTIFICATION.
- FIRE ALARM INSTALLATION COMPANY SHALL HAVE THE ABILITY TO RESPOND TO ANY TROUBLES WITH THE FIRE ALARM SYSTEM WITHIN ONE HOUR OF CALL TO INSTALLER.
- FIRE ALARM CONTRACTOR REPRESENTATIVE SHALL PERFORM THOROUGH TRAINING WITH OWNER'S REPRESENTATIVES PRIOR TO OWNER OCCUPANCY OF THE BUILDING.
- FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE JOB SPECIFICATION, ALL APPLICABLE STATE AND LOCAL LAWS AND IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 72.
- ALL WIRING SHALL BE EITHER PLENUM-RATED CABLE OR IN CONDUIT AS ALLOWED BY CODE.
- E.C. SHALL PROVIDE FRAMED BUILDING LAYOUT NEXT TO THE FACP OR THE REMOTE ANNUNCIATOR. BUILDING LAYOUT SHALL SHOW ALL FIRE ALARM DEVICE LOCATIONS AND THEIR RESPECTIVE ADDRESSES.
- FIRE ALARM DESIGN BASED ON FIRE-LITE OR SILENT NIGHT SYSTEM.
- FIRE ALARM CONTRACTOR SHALL PROVIDE THE FOLLOWING EXTRA PARTS AND MATERIALS:  
 INITIATION DEVICES: (1) OF EACH TYPE  
 ANNUNCIATION DEVICES: (1) STROBE & (2) HORNS  
 KEY & SPECIAL TOOLS: (2) EACH
- FIRE ALARM CONTRACTOR SHALL PROVIDE THE PLAN REVIEWER WITH A FULL SUBMITTAL PACKAGE WITH WIRING DIAGRAMS, BATTERY CALCULATIONS AND INSTALLATION INSTRUCTIONS PRIOR TO FIRE ALARM PERMIT BEING ISSUED.
- FIRE ALARM CONTRACTOR SHALL MAINTAIN A SET OF "AS-BUILT" PLANS ON SITE WITH ALL FIELD CHANGES, ADJUSTMENTS AND CORRECTIONS CLEARLY AND NEATLY INDICATED IN RED INK. THESE PLANS SHALL BE TURNED OVER TO THE OWNER UPON JOB COMPLETION.
- CONTRACTOR SHALL PROVIDE TO THE ENGINEER AN NFPA 72 CERTIFICATION STATEMENT AND COPY OF THE FINAL INSPECTION APPROVAL BY THE LOCAL FIRE MARSHALL UPON JOB COMPLETION.

FIRE ALARM SYSTEM ACTION MATRIX	SYSTEM ACTION														TRANSMIT ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	FAN SHUT DOWN (UNIVERSAL)	DAMPER SHUT DOWN	RECALL ELEVATOR TO GRND FLOOR	SHUNT ALL GAS & POWER UNDER HOOD	COMMENTS/REMARKS
	ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE TROUBLE SIGNAL	ACTUATE APPROPRIATE LOCATION INDICATOR	ACTUATE ALL AUDIBLE EVACUATION SIGNALS	ACTUATE ALL VISIBLE EVACUATION SIGNALS	DISPLAY / PRINT CHANGE OF STATUS												
MANUAL ALARM STATION	X	X					X	X	X	X	X											
SMOKE SENSOR / DETECTOR	X	X					X	X	X	X	X											
DUCT SENSOR / DETECTOR			X	X			X	X	X	X	X											
ELEVATOR SMOKE SENSORS (SHAFT & LOBBIES)	X	X					X	X	X	X	X											
KITCHEN HOOD SUPPRESSION SYS	X	X					X	X	X	X	X											
WATERFLOW SWITCH	X	X					X	X	X	X	X											
TAMPER SWITCH			X	X			X	X	X	X	X											
POST INDICATOR VALVE SWITCH			X	X			X	X	X	X	X											
FIRE ALARM AC POWER FAILURE								X	X													
FIRE ALARM SYSTEM LOW BATTERY								X	X													
OPEN CIRCUIT								X	X													
GROUND FAULT								X	X													
NOTIFICATION APPLIANCE CIRCUIT WIRE-TO-WIRE SHORT								X	X													

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BIG LOTS AND FOUR LEASE SPACES  
**BIG LOTS**  
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