




PROJECT:
CAPE MAY COUNTY ZOO SAFARI CAFE 2
NEW RETAIL FOOD BUILDING
 707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210

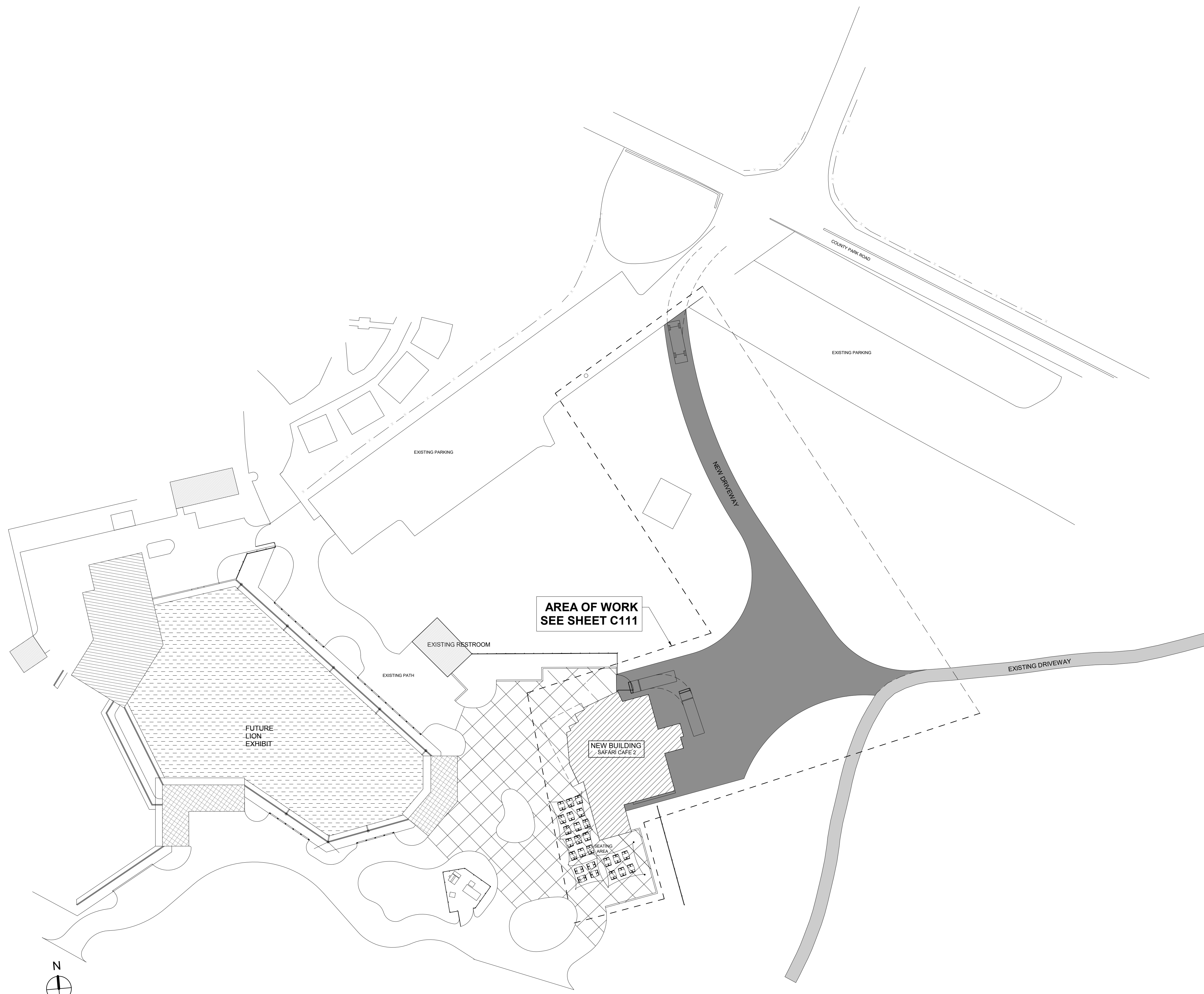
ISSUE FOR BID
 08-06-19

PROJECT NO. 1610-021

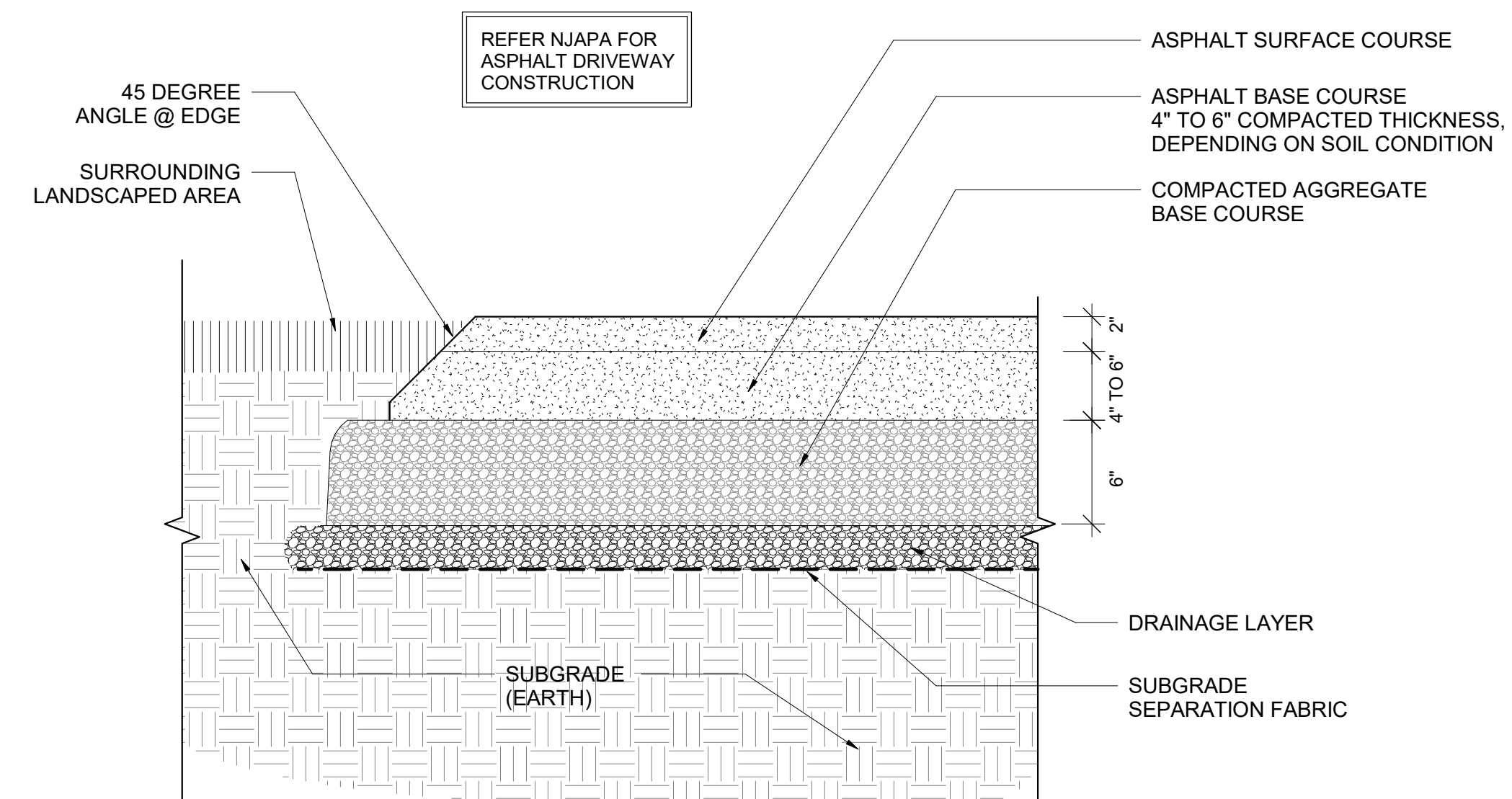
DESIGN ARCHITECT	Architect on record:	Structural Engineer:	MEP Engineers:	Operator:
 T+ASSOCIATES ARCHITECTS 525 South 4th Street, Suite 591 Philadelphia, PA 19147 Tel: 215 629 6374 Contact person: Anthony Tsirantonakis, Architect	DENNIS T. MITCHELL 6031 I-20 WEST, SUITE 260 ARLINGTON, TX 76017 (817)-265-2415	CKS STRUCTURES, INC. 280 N. PROVIDENCE RD, SUITE 105 MEDIA, PA 19063	PSP ASSOCIATES 1105 MELLIEEN DRIVE DOWNINGTOWN, PA 19335 (610) 772-1474 MULHERN CONSULTING ENGINEERS 321 SOUTH YORK ROAD HATBORO, PA 19040 (215) 293-9900	ARAMARK LEISURE ARAMARK TOWER 1001 MARKET STREET PHILADELPHIA, PA 19106

GENERAL PROJECT NOTES <ol style="list-style-type: none"> WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS WHICH INCLUDE THE OWNER/CONTRACTOR AGREEMENT, GENERAL AND SUPPLEMENTARY CONDITIONS, AND THE SPECIFICATIONS, THE DRAWINGS, AND ALL ADDENDA AND BULLETINS ISSUED BY THE ARCHITECT. WORK SHALL CONFORM TO ALL CITY, COUNTY, STATE, AND FEDERAL CONSTRUCTION, SAFETY, ACCESSIBILITY, AND SANITARY LAWS, CODES, STATUTES AND ORDINANCES. ALL DISCREPANCIES, VARIATIONS, OR OMISSIONS IN THE CONTRACT DOCUMENTS SHALL BE REPORTED PROMPTLY. THE CONTRACTOR SHALL COORDINATE, FILE, OBTAIN, AND PAY FEES FOR BUILDING DEPARTMENT AND OTHER AGENCY APPROVALS, PERMITS (UNLESS PREVIOUSLY FILED FOR BY OWNER), AND INSPECTIONS. COPIES OF TRANSACTIONS ARE TO BE FORWARDED TO ARCHITECT AND BUILDING MANAGEMENT PRIOR TO COMMENCING WORK. ALL CODE REQUIRED EXITS, EXIT LIGHT, EMERGENCY LIGHT, ALARMS, SPRINKLERS IF ANY, ETC. SHALL BE MAINTAINED IN OPERABLE CONDITION THROUGHOUT THE CONTRACT PERIOD. THE CONTRACTOR SHALL COORDINATE ALL WORK, DELIVERIES, AND STORAGE OF MATERIALS WITH THE BUILDING MANAGEMENT INCLUDING ELEVATOR USAGE AND CLEARANCES, LOUD AND DISRUPTIVE NOISE, ACCESS TO THE BUILDING, AND TIMING. THE CONTRACT AREA SHALL REMAIN SECURE DURING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS, DIMENSIONS, AND DETAILS PRIOR TO CONSTRUCTION. THE OWNER SHALL BE NOTIFIED OF ALL DISCREPANCIES OR OMISSIONS WHICH WOULD INTERFERE WITH THE SATISFACTORY COMPLETION OF THE WORK, PRIOR TO THE START OF ALL WORK. DRAWINGS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE DIAGRAMMATIC ONLY. THE WORK INDICATED ON THE DRAWINGS SHALL INCLUDE FURNISHING, MATERIALS, EQUIPMENT, AND APPURTENANCES, AND LABOR NECESSARY TO COMPLETE THE WORK. VERIFY ALL EQUIPMENT AND LOCATIONS WITH THE OWNER. PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME FAMILIAR WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT, INCLUDING DEMOLITION, MECHANICAL AND ELECTRICAL INSTALLATION AND SHALL ADJUST BID ACCORDINGLY. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS ON THE JOB SITE AND CONFIRM THAT WORK AS INDICATED ON THE CONSTRUCTION DOCUMENTS (ALSO KNOWN AS CONSTRUCTION PLANS) CAN BE ACCOMPLISHED AS SHOWN BEFORE PROCEEDING. NOTIFY THE ARCHITECT REPRESENTATIVE OF ANY MAJOR DISCREPANCY REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS, AND/OR DESIGN INTENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THIS CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK OR RELATED WORK IN QUESTION. INSTALL ALL EQUIPMENT AND MATERIALS PER MANUFACTURER'S RECOMMENDATIONS UNLESS OTHERWISE SPECIFICALLY INDICATED, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE. CONTRACTOR SHALL REVIEW SHOP DRAWINGS BEFORE SUBMITTING THEM TO THE ARCHITECT. THE ARCHITECT SHALL NOT REVIEW ANY SUBMITTAL WITHOUT THE CONTRACTOR'S SIGNED REVIEW STATEMENT. SHOP DRAWING REVIEW SHALL BE FOR DESIGN INTENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIMENSIONS, COORDINATION WITH OTHER TRADES, AND MEANS. REQUESTS FOR SUBSTITUTIONS SHALL BE CONSIDERED BY THE ARCHITECT ONLY IF SHOWN TO BE ADVANTAGEOUS TO THE PROJECT. SUBMIT SUPPORTIVE INFORMATION TO THE PROJECT. SUBMIT SUPPORTIVE INFORMATION TO THE PROJECT. CONFIRM TO OWNER THE ORDERING AND DELIVERY DATES OF LONG LEAD ITEMS TO INSURE AGAINST DELAYS IN PROJECT COMPLETION OR TO FORCE SUBSTITUTIONS. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, FOR THE COORDINATION OF WORK AND FOR THE WORK PERFORMED BY HIS SUBCONTRACTORS. PROTECT BUILDING PREMISES AND OCCUPANTS ON PROJECT SITE FROM DAMAGE WITH TEMPORARY PROTECTING COVERS AND BARRIERS, DUST PROOFING, AND SHORING, OR AS REQUIRED. REPAIR ANY DAMAGE IN KIND AT NO ADDITIONAL COST TO THE PARTY AFFECTED. AT SUBSTANTIAL COMPLETION OF THE WORK, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ARCHITECT FOR THE ON-SITE PUNCHLIST WALK-THROUGH. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS TO THE OWNER/TEENANT AT COMPLETION OF WORK. CONTRACTOR SHALL VISIT JOB SITE TO REVIEW SCOPE OF WORK AND EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, MECHANICAL SERVICE, ELECTRICAL SERVICE AND OVERALL COORDINATION. ALL TELEPHONE/DATA EQUIPMENT LAYOUT SPECIFICATIONS, PERFORMANCE, INSTALLATION AND THEIR FINAL LOCATION ARE BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS/HER WORK WITH THE WORK AND CLEARANCES REQUIRED BY OTHERS RELATED TO SAID EQUIPMENT. ALL WORK PERFORMED AND MATERIALS SHALL MEET THE HIGHEST TRADE STANDARDS, AS A MINIMUM STANDARD, CONFORM WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES HAVING JURISDICTION. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK. ELECTRICAL SYSTEMS SHALL BE INSTALLED PER N.E.C. AND IN ACCORDANCE WITH ALL APPLICABLE UTILITY COMPANY SPECIFICATIONS AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS. CONTRACTOR SHALL PROVIDE SUPERVISION WHILE ANY SUBCONTRACTORS OR WORKMEN ARE ON THE JOB SITE AND SHALL SUPERVISE AND DIRECT ALL WORK. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2A OR 2A-RATING WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA DURING CONSTRUCTION. CONTRACTOR SHALL PROTECT ALL FINISHES THAT ARE TO REMAIN. CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY OCCUR DURING CONSTRUCTION. SEAL ALL PENETRATIONS THROUGH FIRE RATED AREAS WITH U.L. LISTED OR F.M. APPROVED MATERIALS. VERIFY ALL FINAL EQUIPMENT LOCATIONS WITH THE OWNER'S REPRESENTATIVE. DIMENSIONS ARE TO FINISH UNLESS NOTED. CLEAN-UP AND SAFETY: KEEP PROJECT AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND EQUIPMENT REMOVED AND NOT SPECIFIED AS THE REMAINING PROPERTY OF THE OWNER, ETC. LEAVE PREMISES IN A VACUUM AND BROOM CLEAN CONDITION; FREE FROM PAINT, CLEAN CONDITION; FREE FROM PAINT SPOTS DUST, OR SMUDGES OF ANY NATURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SYSTEMS EQUIPMENT IN A CLEAN WORKING ORDER UNTIL ACCEPTANCE OF THE PROJECT BY OWNER. 	ABBREVIATIONS <table border="0"> <tr> <td>ABV ABOVE</td> <td>MAX MAXIMUM</td> </tr> <tr> <td>AFV ABOVE FINISHED FLOOR</td> <td>MFL METAL</td> </tr> <tr> <td>ADJ ADJUSTABLE</td> <td>MIN MINIMUM</td> </tr> <tr> <td>ADJC ADJACENT</td> <td>MISC MISCELLANEOUS</td> </tr> <tr> <td>ALUM ALUMINUM</td> <td></td> </tr> <tr> <td>& AND</td> <td>NIC NOT IN CONTRACT</td> </tr> <tr> <td>@ AT</td> <td>NTS NOT TO SCALE</td> </tr> <tr> <td>BLK BLOCK</td> <td>OD OUTSIDE DIAMETER</td> </tr> <tr> <td>BLDG BUILDING</td> <td>OC ON CENTER</td> </tr> <tr> <td></td> <td>OPG OPENING</td> </tr> <tr> <td>CL CENTER LINE</td> <td>PAR PARALLEL</td> </tr> <tr> <td>CLG CEILING</td> <td>PERF PERFORATED</td> </tr> <tr> <td>CLR CLEAR</td> <td>PTD PAINTED</td> </tr> <tr> <td>CONC CONCRETE</td> <td>PWD PLYWOOD</td> </tr> <tr> <td>CONT CONTINUOUS</td> <td>PL-LAM PLASTIC LAMINATE</td> </tr> <tr> <td>DEMO DEMOLISH</td> <td></td> </tr> <tr> <td>DIA DIAMETER</td> <td>R RADIUS</td> </tr> <tr> <td>DM DIMENSION</td> <td>REM REMOVE</td> </tr> <tr> <td>DR DOOR</td> <td>REV REVISION</td> </tr> <tr> <td></td> <td>RM ROOM</td> </tr> <tr> <td>EQ EQUAL</td> <td>R.O. 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DRAWING LIST	
SHEET NUMBER	SHEET NAME
C111	TRANSITIONAL SITE PLAN
C112	NEW SITE PLAN
CS	COVER SHEET
C100	SITE PLAN
A000	BUILDING CODE ANALYSIS EGRESS PLAN, & ADA BATHROOMS
A001	DOOR AND WINDOW SCHEDULES AND DETAILS
A101	ARCHITECTURAL FLOOR PLAN
A101.1	ARCHITECTURAL FLOOR PLAN - UPPER WINDOWS
A102	ROOF PLAN
A103	REFLECTED CEILING PLAN - CEILING DIMENSIONS
A104	REFLECTED CEILING PLAN - LIGHT FIXTURE DIMENSIONS
A105	EQUIPMENT PLAN
A105.1	EQUIPMENT LIST (BY LOCATION ON PLAN)
A106	MILLWORK, FURNITURE AND TECHNICAL PLAN
A107	FINISH PLAN
A200	EXTERIOR ELEVATIONS
A201	EXTERIOR ELEVATIONS
A202	BUILDING SECTIONS
A203	WALL SECTIONS
A205	INTERIOR ELEVATIONS
A206	INTERIOR ELEVATIONS - FOOD COURT
A207	INTERIOR ELEVATIONS
A301	MILLWORK DETAILS
A301.1	MILLWORK DETAILS
A302	BAMBOO PANEL DETAILS
A303	BAMBOO SLAT SUSPENDED CANOPY DETAILS
A304	SIGNAGE DETAILS
A305	SHADE SAIL DETAILS
S100	GENERAL NOTES
S101	FOUNDATION PLAN
S102	ROOF FRAMING PLAN
S301	FOUNDATION DETAILS
S302	FRAMING DETAILS
M-1	MECHANICAL PLAN
M-2	MECHANICAL ROOF PLAN
M-3	MECHANICAL DATA SCHEDULES
M-4	MECHANICAL DETAILS
M-5	MECHANICAL SPECIFICATIONS
M-6	MECHANICAL KITCHEN HOOD SHEET 1 OF 6
M-7	MECHANICAL KITCHEN HOOD SHEET 2 OF 6
M-8	MECHANICAL KITCHEN HOOD SHEET 3 OF 6
M-9	MECHANICAL KITCHEN HOOD SHEET 4 OF 6
M-10	MECHANICAL KITCHEN HOOD SHEET 5 OF 6
M-11	MECHANICAL KITCHEN HOOD SHEET 6 OF 6
E1	LIGHTING PLAN
E2	POWER PLAN
E3	ELECTRICAL ROOF PLAN
E4	ELECTRICAL NOTES AND DETAILS
E5	ELECTRICAL DETAILS
P-1	SANITARY AND VENT PLAN
P-2	DOMESTIC WATER PLAN
P-3	PLUMBING RISER DIAGRAMS
P-4	SCHEDULE, NOTES AND SPECIFICATIONS



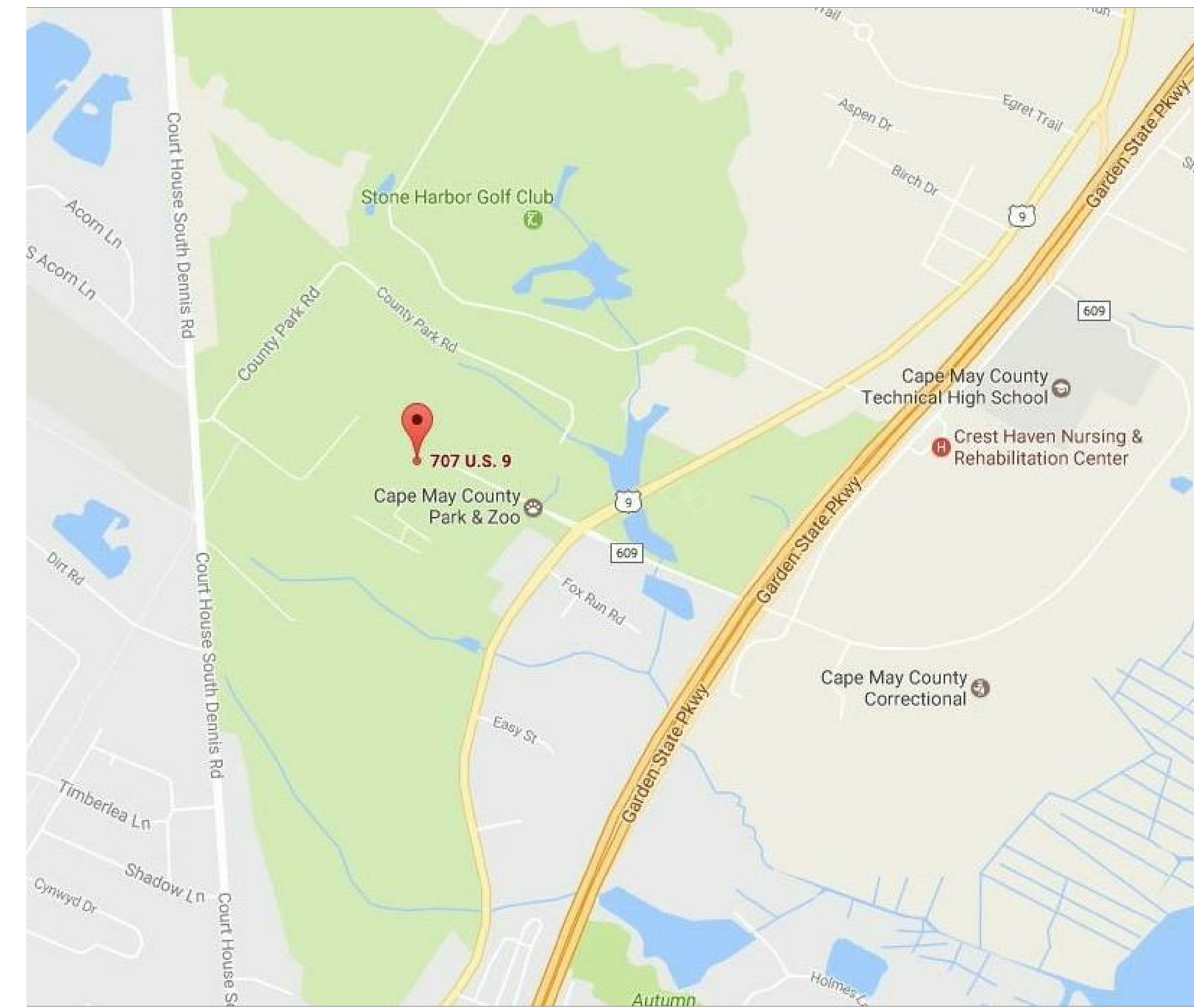
3 SITE PLAN - COMPLETE STAGE 2019
1/32" = 1'-0"



1 ASPHALT DRIVEWAY DETAIL
1 1/2" = 1'-0"

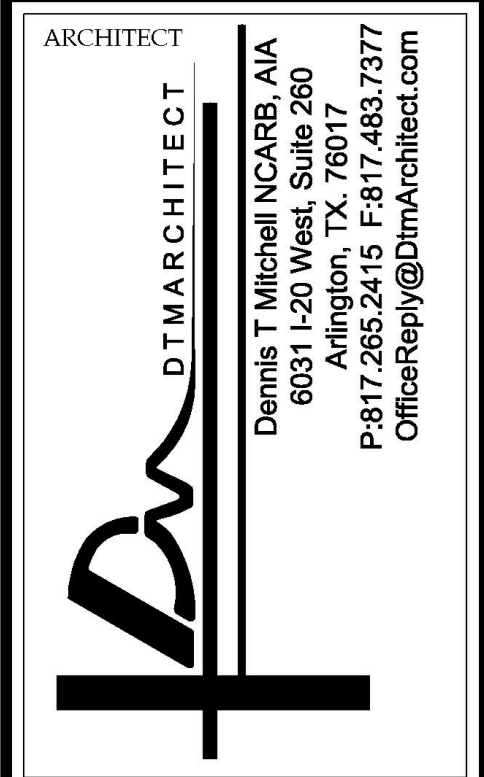


KEY MAP - NOT TO SCALE



LOCATION MAP - NOT TO SCALE

ISSUE FOR BID
08-06-19



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OfficeReply@DtmArchitect.com

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T: 215.629.6374

MEP ENGINEER:
PSP ASSOCIATES
1105 MELLIEN DRIVE
DOWNTOWN, PA 19335

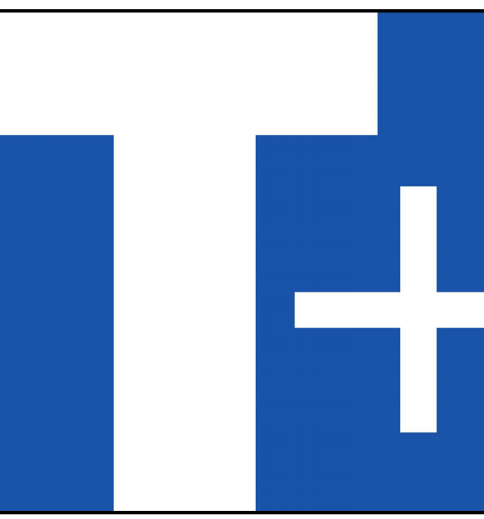
MULHERN CONSULTING ENGINEERS
321 SOUTH YORK ROAD
HATBORO, PA 19040

STRUCTURAL ENGINEER:
CKS STRUCTURES, INC.
280 N. PROVIDENCE RD, SUITE 105
MEDIA, PA 19063

CAPE MAY COUNTY ZOO SAFARI CAFE 2 NEW RETAIL FOOD BUILDING
707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210

DRAWN (Author)
SCALAS indicated
APPROVED BY: AT
JOB#: 1610-021

TITLE:
SITE PLAN
DWG. NO.
C100



T+ASSOCIATES INC.
ARCHITECTS
 525 S. 4TH ST. STE 591
 PHILADELPHIA, PA 19147
 T: 215.629.6374

ARCHITECTS SEAL:

MEP ENGINEER:

PSP ASSOCIATES
 1105 MELLIE DRIVE
 DOWNINGTOWN, PA. 19335

MULHERN CONSULTING ENGINEERS
 321 SOUTH YORK ROAD
 HATBORO, PA 19040

STRUCTURAL ENGINEER:

CKS STRUCTURES, INC.
 280 N. PROVIDENCE RD, SUITE 105
 MEDIA, PA 19063

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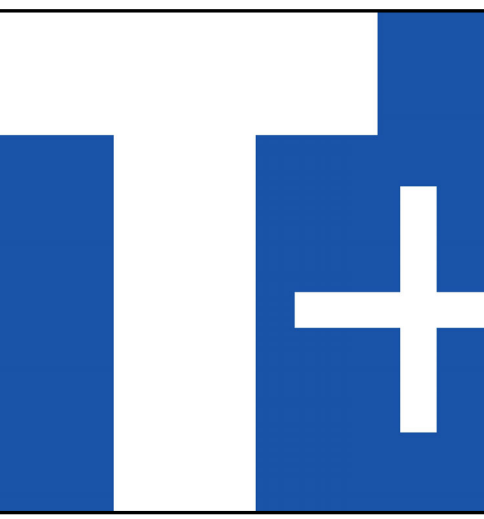
APPROVED BY: AT
 DRAWN/Author
 SCALE: 1/16" = 1'-0"
 JOB#: 1610-021

TITLE:
 TRANSITIONAL SITE PLAN
 DWG. NO. **C111**

ISSUE FOR BID
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2 SITE PLAN - TRANSITIONAL
 1/16" = 1'-0"



T+ ASSOCIATES INC.
ARCHITECTS
 525 S. 4TH ST. STE 591
 PHILADELPHIA, PA 19147
 T: 215.629.6374

ARCHITECTS SEAL:

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 1105 MELLIE DRIVE
 DOWNINGTOWN, PA 19335

MULHERN CONSULTING ENGINEERS
 321 SOUTH YORK ROAD
 HATBORO, PA 19040

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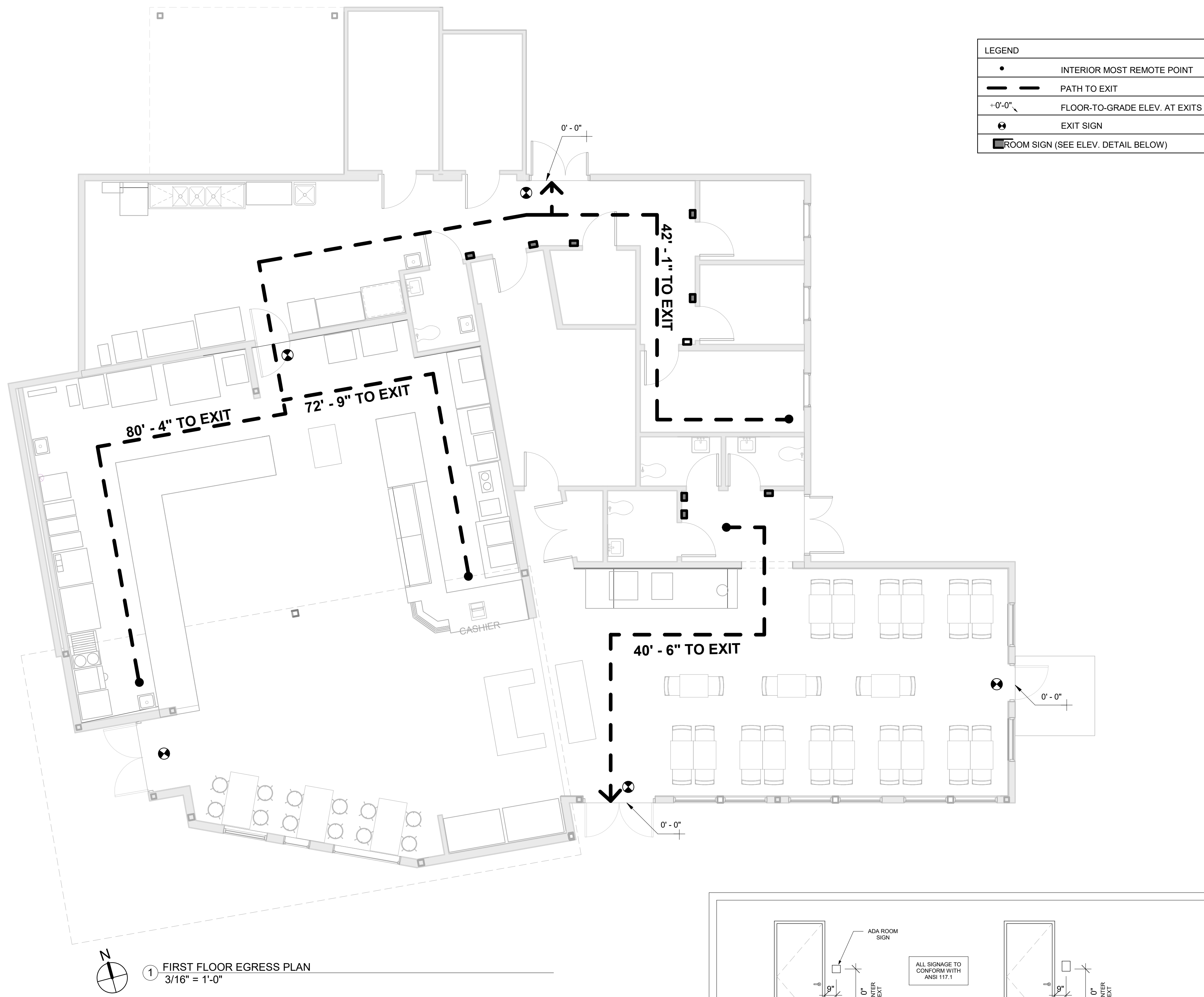
DRAWN (Author) APPROVED BY: AT
 SCALE: 1/16" = 1'-0" JOB#: 1610-021

TITLE:
 NEW SITE PLAN
 DWG. NO. **C112**

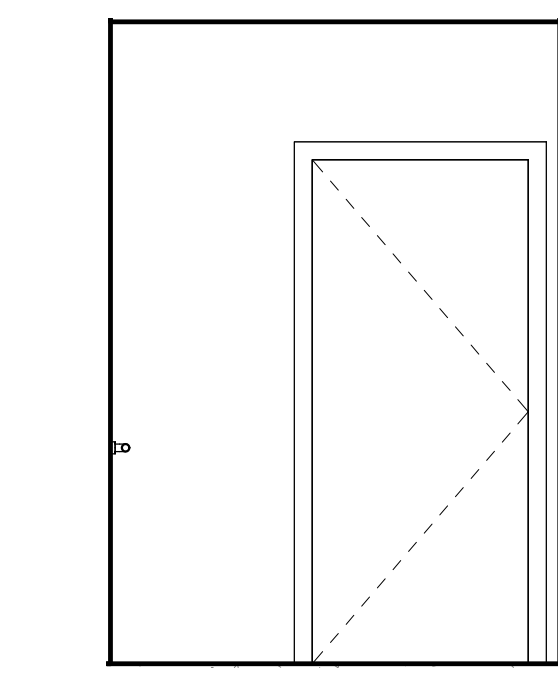
ISSUE FOR BID
 08-06-19



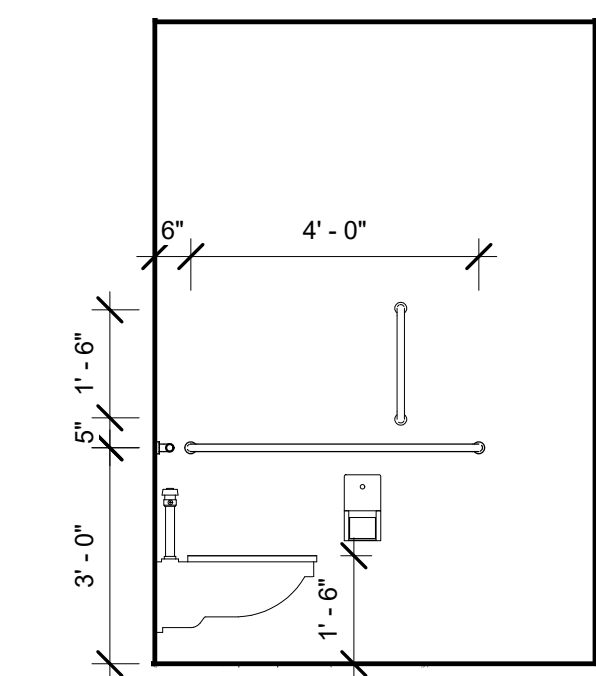
1 NEW SITE PLAN (COMPLETED STAGE) - FOR INFORMATION ONLY
 1/16" = 1'-0"



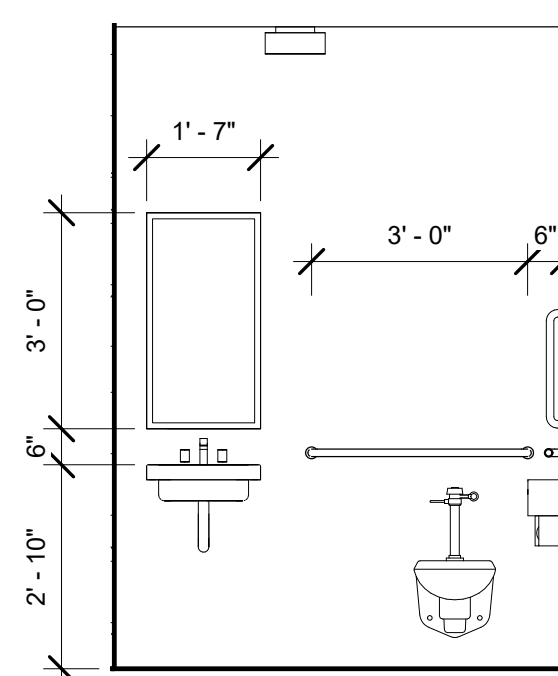
1 FIRST FLOOR EGRESS PLAN
3/16" = 1'-0"



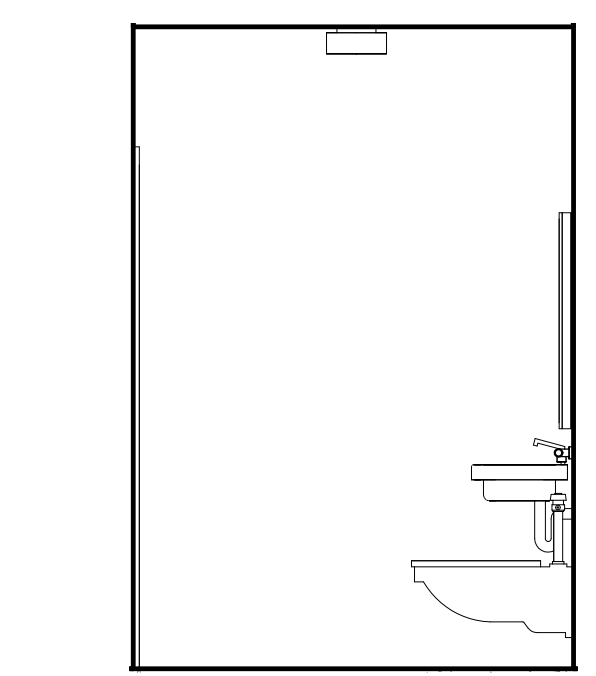
9 ADA BATH 117 - SOUTH ELEVATION
3/8" = 1'-0"



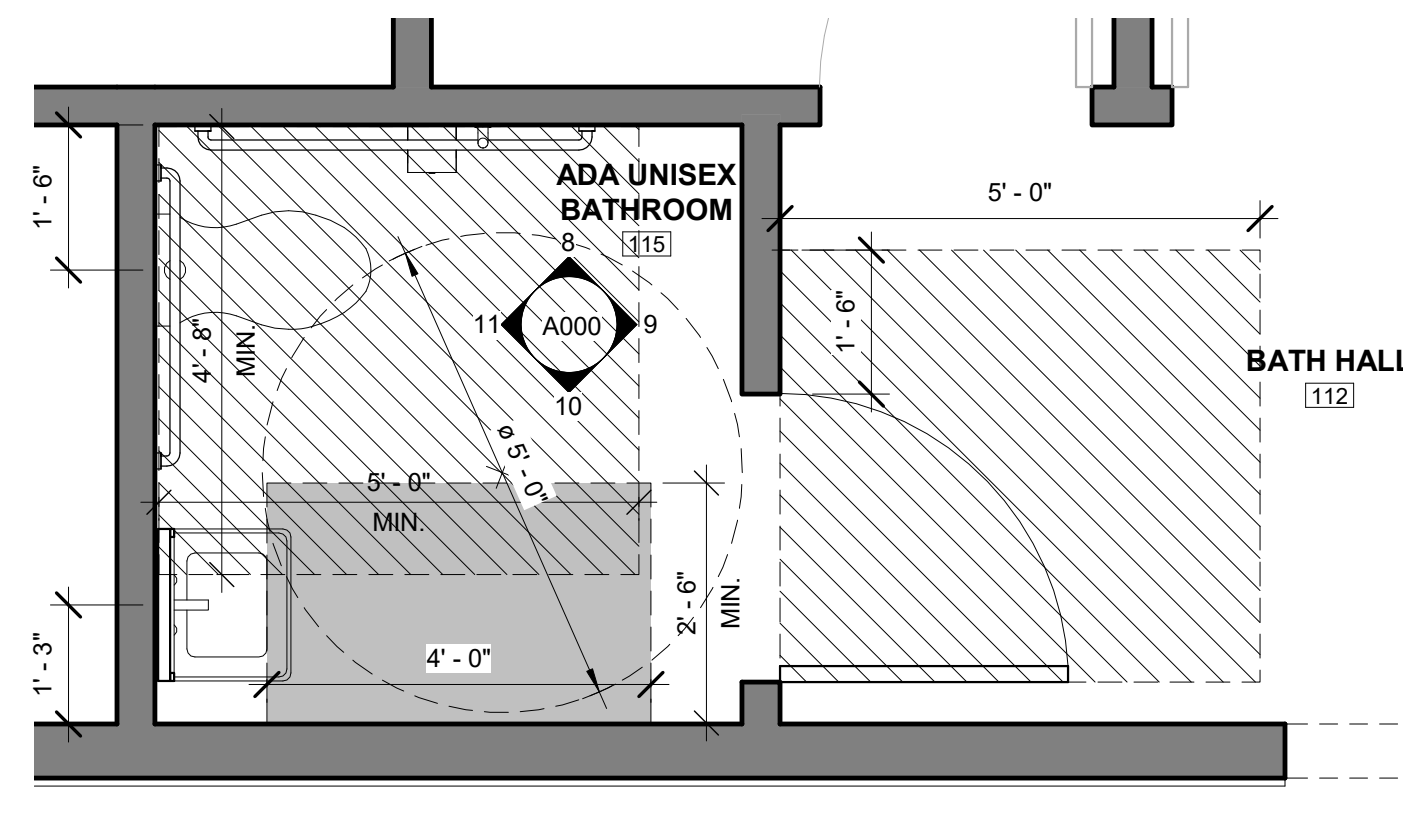
8 ADA BATH 117 - EAST ELEVATION
3/8" = 1'-0"



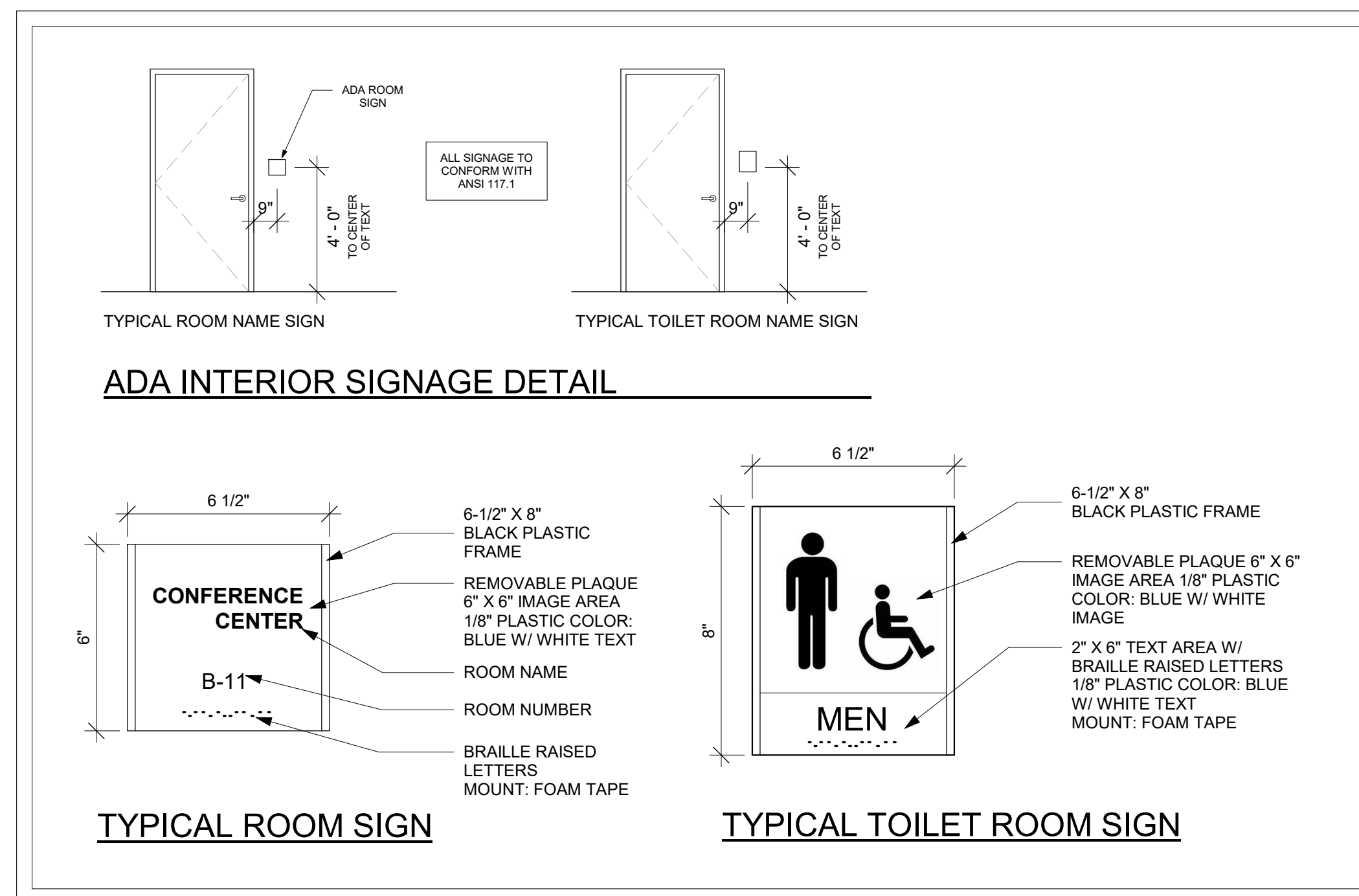
11 ADA BATH 117 - NORTH ELEVATION
3/8" = 1'-0"



10 ADA BATH 117 - WEST ELEVATION
3/8" = 1'-0"



7 ADA BATH 117 - DETAIL PLAN
1/2" = 1'-0"

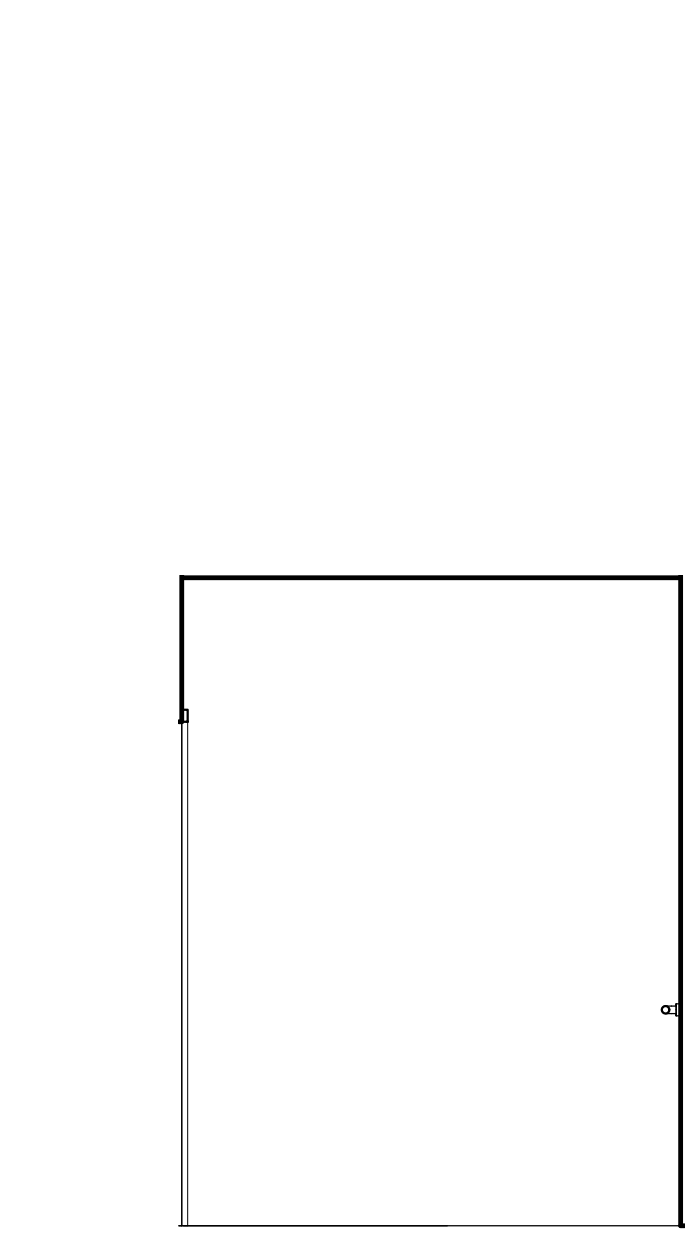


BATHROOM ACCESSORIES SCHEDULE

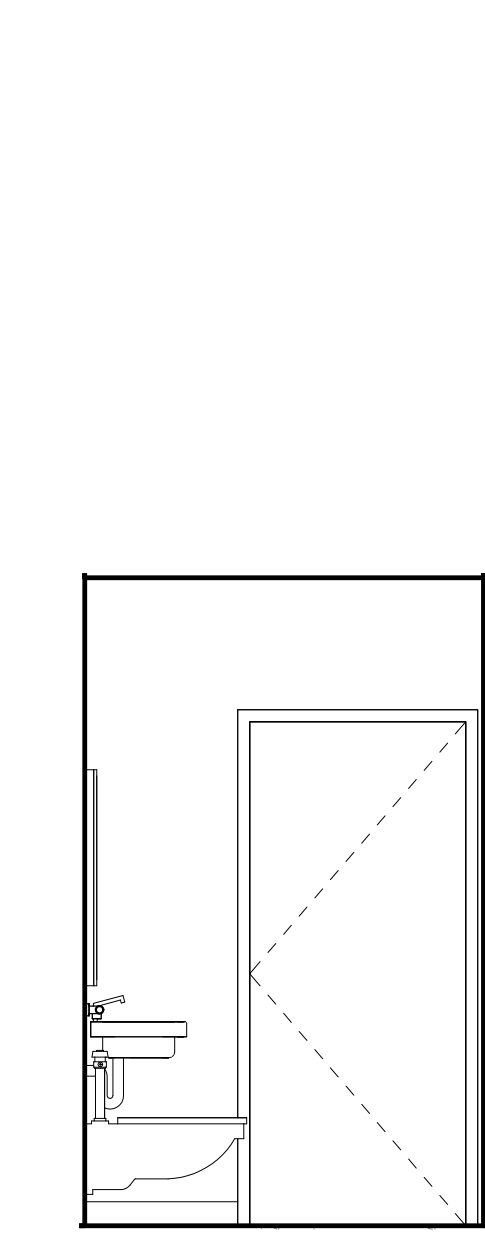
ITEM	LOCATION	DESCRIPTION	QTY
GRAB BAR 18"	ADA BATH RM #106, #115	BOBRICK #B-8806 X 18, SATIN FINISH	2
GRAB BAR 36"	ADA BATH RM #106, #115	BOBRICK #B-8806 X 36, SATIN FINISH	2
GRAB BAR 48"	ADA BATH RM #106, #115	BOBRICK #B-8806 X 48, SATIN FINISH	2
T.P. DISPENSER	ADA BATH RM #106 & #115, WOMENS & MENS BATH RM #114 & #113	BOBRICK #B-2888	4
MIRROR	ADA BATH RM #106 & #115, WOMENS & MENS BATH RM #114 & #113	BOBRICK #B-165 1836	4
CHANGING STATION	ADA BATH RM #106 & #115, WOMENS & MENS BATH RM #114 & #113	KOALA KARE PRODUCTS #KB200-05 WHITE GRANITE	4

BUILDING CODE ANALYSIS:

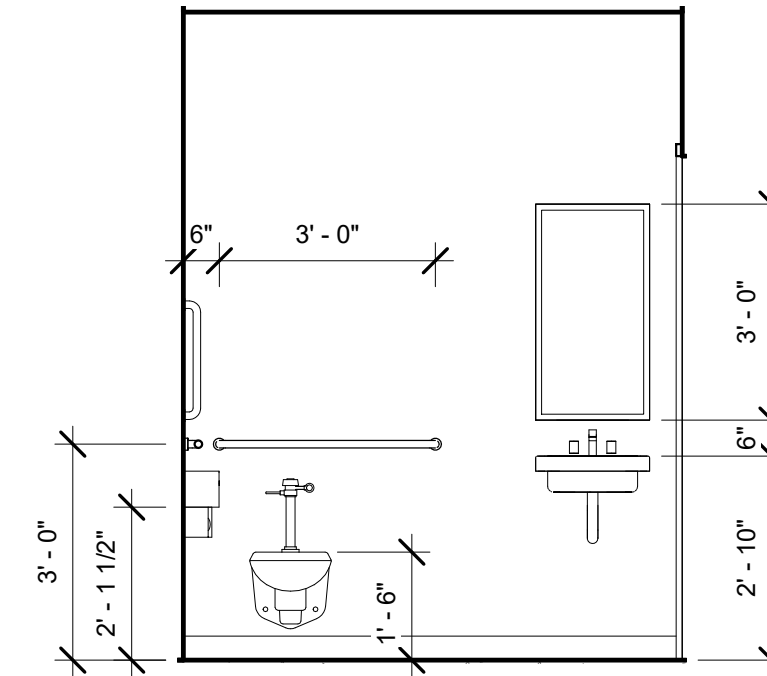
CONDITIONS:	NOTES:	DATA:	REFERENCE:
PROPOSED USE GROUP:		ASSEMBLY GROUP A2 BUSINESS GROUP B MERCANTILE GROUP M STORAGE GROUP S-2	IBC2015 NJ EDITION SECTION 303.3 IBC2015 NJ EDITION SECTION 304.1 IBC2015 NJ EDITION SECTION 309 IBC2015 NJ EDITION SECTION 311.3
CONSTRUCTION TYPE:		V B	IBC2015 NJ EDITION SECTION 602.5, TABLE 601
ALLOWABLE HEIGHT:		60'-0"	IBC2015 NJ EDITION TABLE 504.3
PROPOSED HEIGHT:		20'-0"	
ALLOWABLE NUMBER OF STORIES/AREA:		2 STORIES/ 24,000 SF	IBC2015 NJ EDITION TABLES 504.4/506.2
PROPOSED NUMBER OF STORIES/AREA:		1 STORY/ 4,365 SF	
AUTOMATIC SPRINKLER SYSTEM:		NOT REQUIRED FOR OCCUPANT LOAD < 100	IBC2015 NJ EDITION, SECTION 903.2.1.2
FIRE-RESISTANCE RATINGS:		V B	IBC2015 NJ EDITION TABLE 601
PRIMARY STRUCTURAL FRAME:		0HR	
BEARING WALLS:			
EXTERIOR:		0HR	
INTERIOR:		0HR	
NONBEARING WALLS & PARTITIONS:			
EXTERIOR:		0HR	
INTERIOR:		0HR	
FLOOR CONSTRUCTION AND SECONDARY MEMBERS:		0HR	
ROOF CONSTRUCTION AND SECONDARY MEMBERS:		0HR	
FIRE SEPARATION DISTANCE:			IBC2015 NJ EDITION TABLE 602
		X < 5	1HR
		5 ≤ X < 10	1HR
		10 ≤ X < 30	0HR
		X ≥ 30	0HR
FIRE SEPARATION DISTANCE PROPOSED:		X = 20	0HR
TABULAR AREA PER FLOOR:			
1ST FLOOR:		3,773 SF	
OCCUPANT LOADS PER FLOOR:			IBC2015 NJ EDITION TABLE 1004.1.2
ASSEMBLY A-2 (2,820 SF)	15 NET	52 (OCCUPANCY LIMIT BY # OF SEATING)	
BUSINESS B (339 SF)	100 GROSS	4	
MERCANTILE M (KITCHENS (COMMERCIAL)) (552 SF)	200 GROSS	3	
STORAGE S-2 (301 SF)	300 GROSS	1	
TOTAL LOAD:		99	
MEANS OF EGRESS:			
TRAVEL DISTANCE:		200'	IBC2015 NJ EDITION TABLE 1017.2
EGRESS WIDTH PER OCCUPANT SERVED:			
OTHER COMPONENTS (CORRIDORS)		44"	IBC2015 NJ EDITION SECTION 1005
HURRICANE PRONE REGION			
GREATER THAN 115 mph WINDSPEED		WINDSPEED BY LOCATION: 123 mph	IBC2015 NJ EDITION CHAPTER 2 - (BS) HURRICANE PRONE REGION
RISK CATEGORY II - NON ESSENTIAL BUILDING			IBC2015 NJ EDITION TABLE 1604.5 / APPLIED TECHNOLOGY COUNCIL ASCE 7
WIND-BORNE DEBRIS REGION = NO (IMPACT RESISTANT GLAZING NOT REQ'D)			
GREATER THAN 130 mph WINDSPEED		WINDSPEED BY LOCATION: 123 mph	IBC2015 NJ EDITION SECTION 1609
WITHIN 1 MILE OF COASTAL LINE		DISTANCE FROM SITE TO COAST: 4 mile	



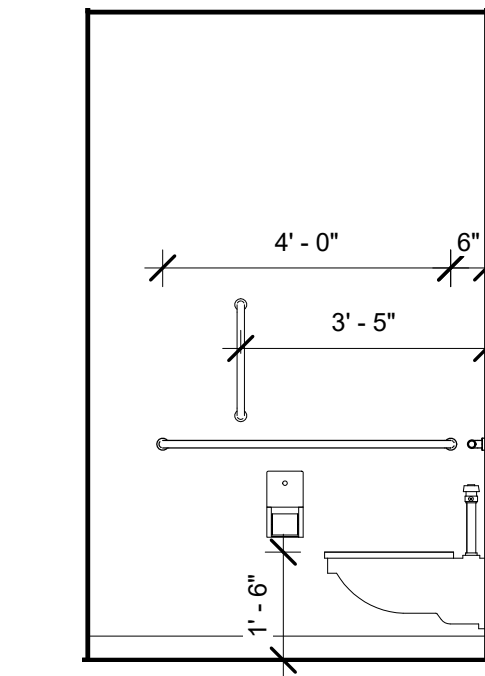
4 ADA BATH 106 - SOUTH ELEVATION
3/8" = 1'-0"



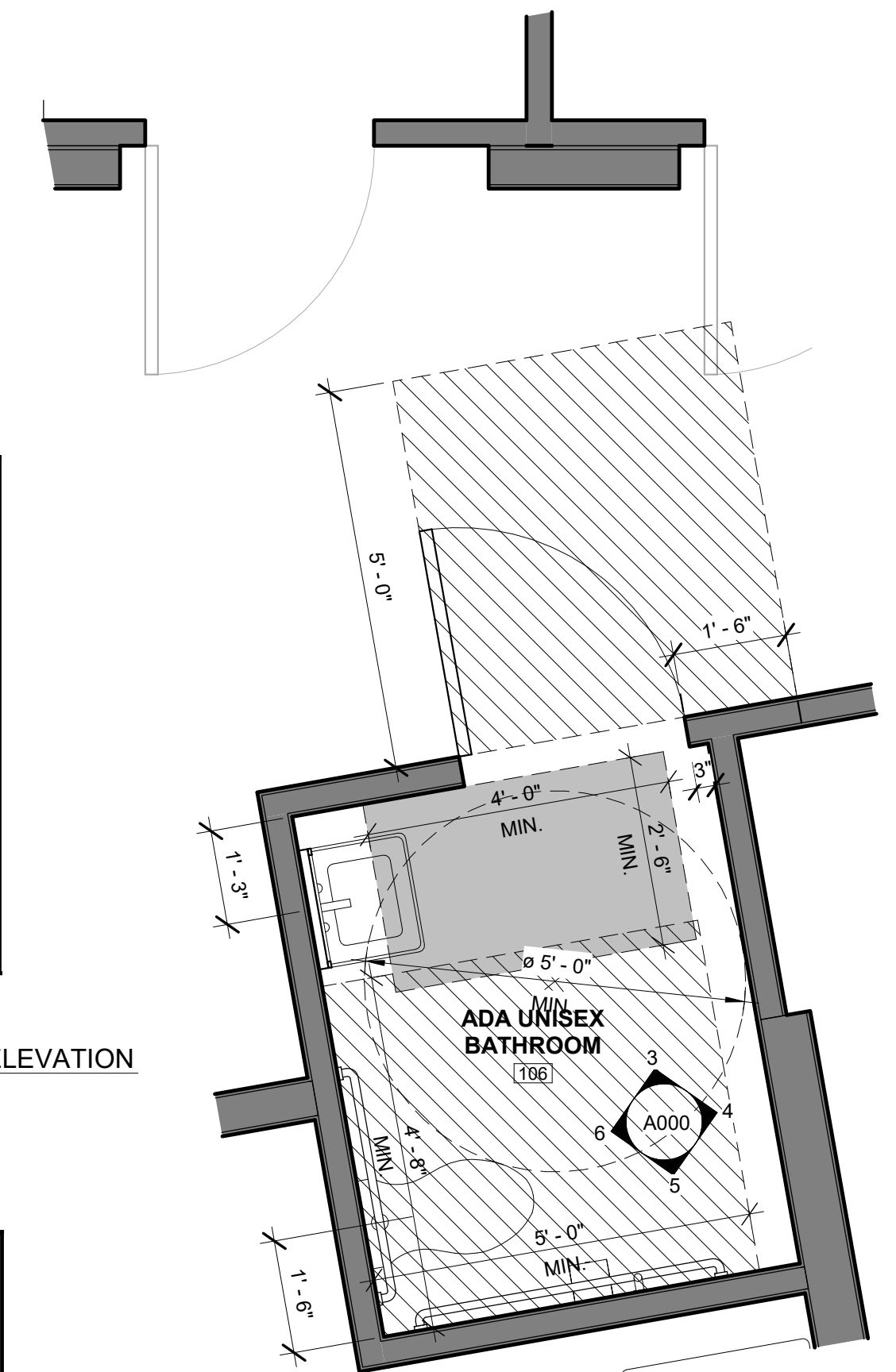
3 ADA BATH 106 - EAST ELEVATION
3/8" = 1'-0"



6 ADA BATH 106 - NORTH ELEVATION
3/8" = 1'-0"

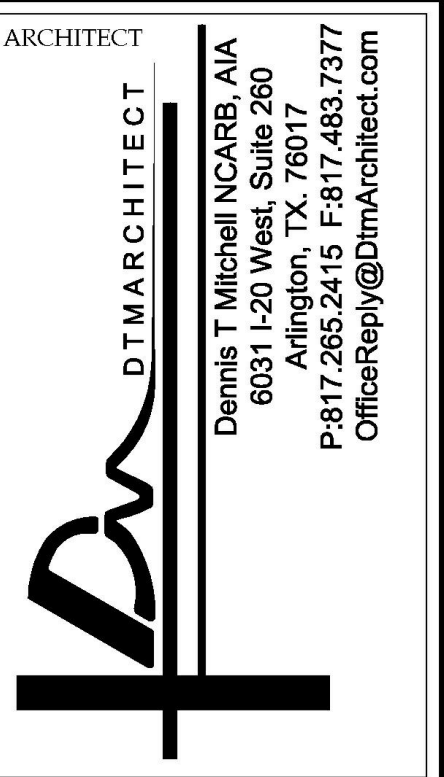


5 ADA BATH 106 - WEST ELEVATION
3/8" = 1'-0"



2 ADA BATH 106 - DETAIL PLAN
1/2" = 1'-0"

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321 SOUTH YORK ROAD
HATBORO, PA 19040

STRUCTURAL ENGINEER:
CKS STRUCTURES, INC.
280 N. PROVIDENCE RD, SUITE 105
MEDIA, PA 19063

TITLE:
BUILDING CODE ANALYSIS
EGRESS PLAN, & ADA BATHROOMS
DWG. NO. A000

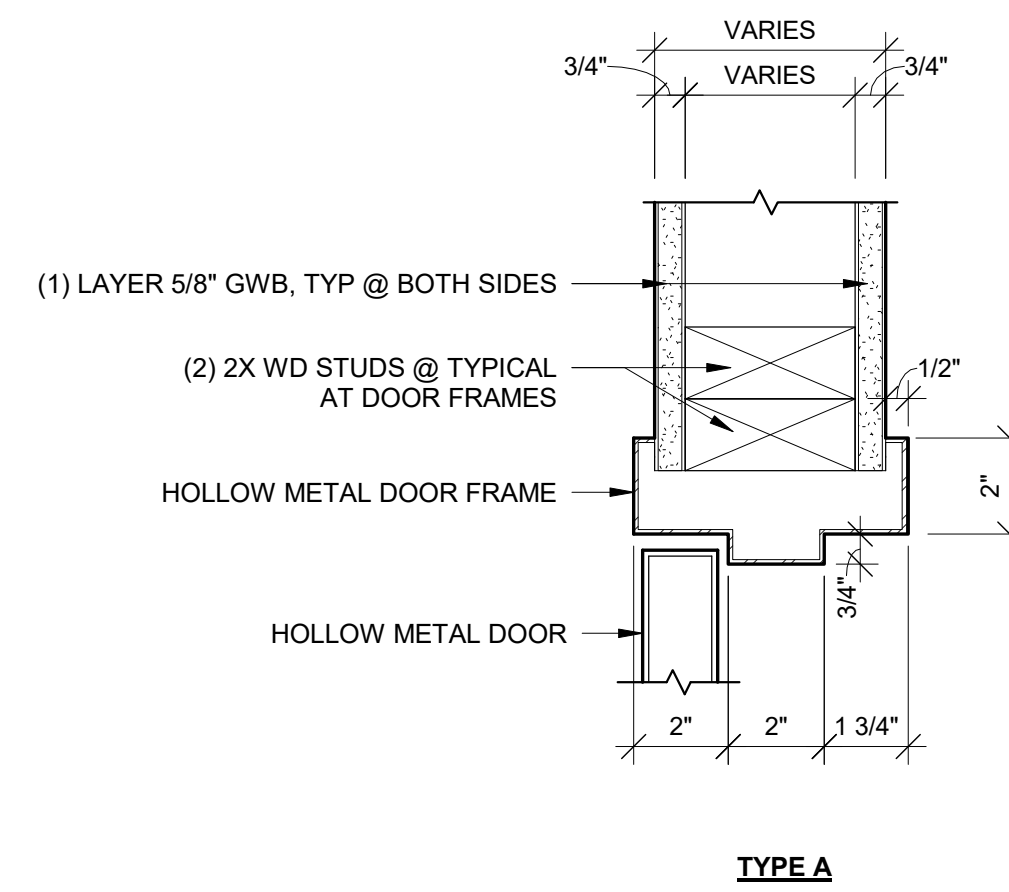
CAPE MAY COUNTY ZOO SAFARI
CAFE 2 NEW RETAIL FOOD BUILDING
707 ROUTE 9 NORTH, CAPE MAY COURT
HOUSE, NJ 08210

APPROVED BY: AT
JOB#: 1610-021

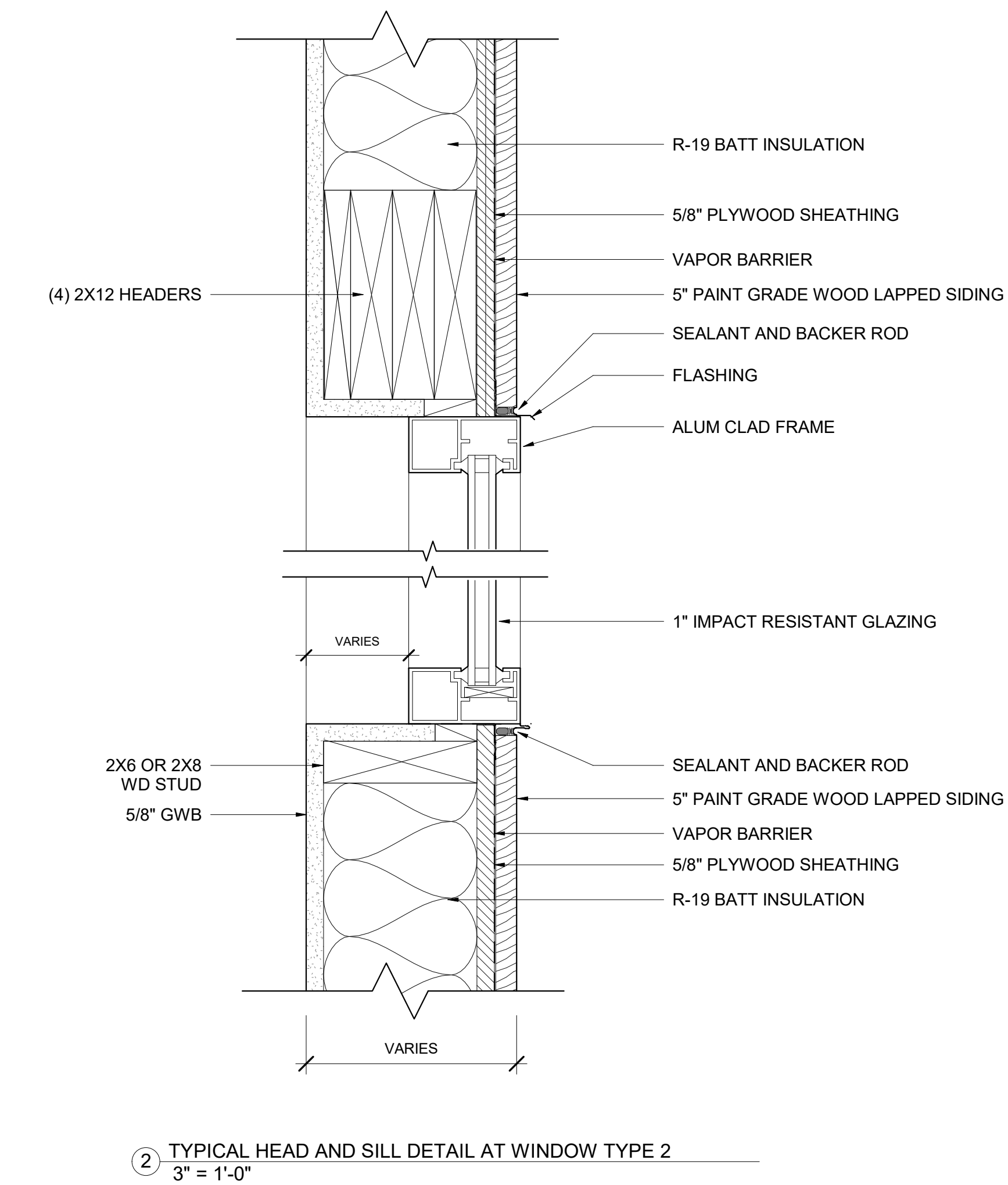
DRAWN (Author)
SCALAS indicated

DOOR SCHEDULE														
DOOR NO.	TYPE	DOORS			FRAMES			ACCESSORIES / HARDWARE					BATHROOM	COMMENTS
		WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	TYPE	FINISH	KICKPLATE	DOOR CLOSURE	EGRESS HARDWARE	LOCKSET		
100	B	6'-0"	7'-0"	0'-1 3/4"	ALUM/GL	BRONZE ANO	2	BRONZE	Yes	Yes	Yes	Yes		EGRESS PADDLE
102	B	6'-0"	7'-0"	0'-1 3/4"	ALUM/GL	BRONZE ANO	2	BRONZE	Yes	Yes	Yes	Yes		EGRESS PADDLE
103	D	3'-0"	7'-0"	0'-1 3/4"	ALUM/GL	BRONZE ANO	3	BRONZE	Yes	Yes	Yes	Yes		EGRESS PADDLE
104	C	5'-0"	7'-0"	0'-1 3/4"	HM	PTD	1	PTD	Yes	Yes				
105	C	5'-0"	7'-0"	0'-1 3/4"	HM	PTD	1	PTD	Yes	Yes	Yes	Yes		EGRESS BAR
108	F	3'-0"	7'-0"	0'-1"	P-LAM	P-LAM	N/A	N/A	Yes	Yes				
109	A1	5'-0"	7'-0"	0'-1 3/4"	HM	PTD	1	PTD						
110	A	3'-0"	7'-0"	0'-1 3/4"	HM	PTD	1	PTD		Yes				
112	A	3'-0"	7'-0"	0'-1 3/4"	HM	PTD	1	PTD	Yes		Yes			
113	A	3'-0"	7'-0"	0'-1 3/4"	HM	PTD	1	PTD	Yes		Yes			
114	A	3'-0"	7'-0"	0'-1 3/4"	HM	PTD	1	PTD	Yes		Yes			
115	A	2'-10"	7'-0"	0'-1 3/4"	HM	PTD	1	PTD	Yes		Yes			
116	A	3'-0"	7'-0"	0'-1 3/4"	HM	PTD	1	PTD	Yes	Yes		Yes	Yes	
117	A	2'-10"	7'-0"	0'-1 3/4"	HM	PTD	1	PTD	Yes		Yes			
118	A	3'-0"	7'-0"	0'-1 3/4"	HM	PTD	1	PTD	Yes	Yes				
119	A	3'-0"	7'-0"	0'-1 3/4"	HM	PTD	1	PTD	Yes				Yes	
120	A	3'-0"	7'-0"	0'-1 3/4"	HM	PTD	1	PTD	Yes					

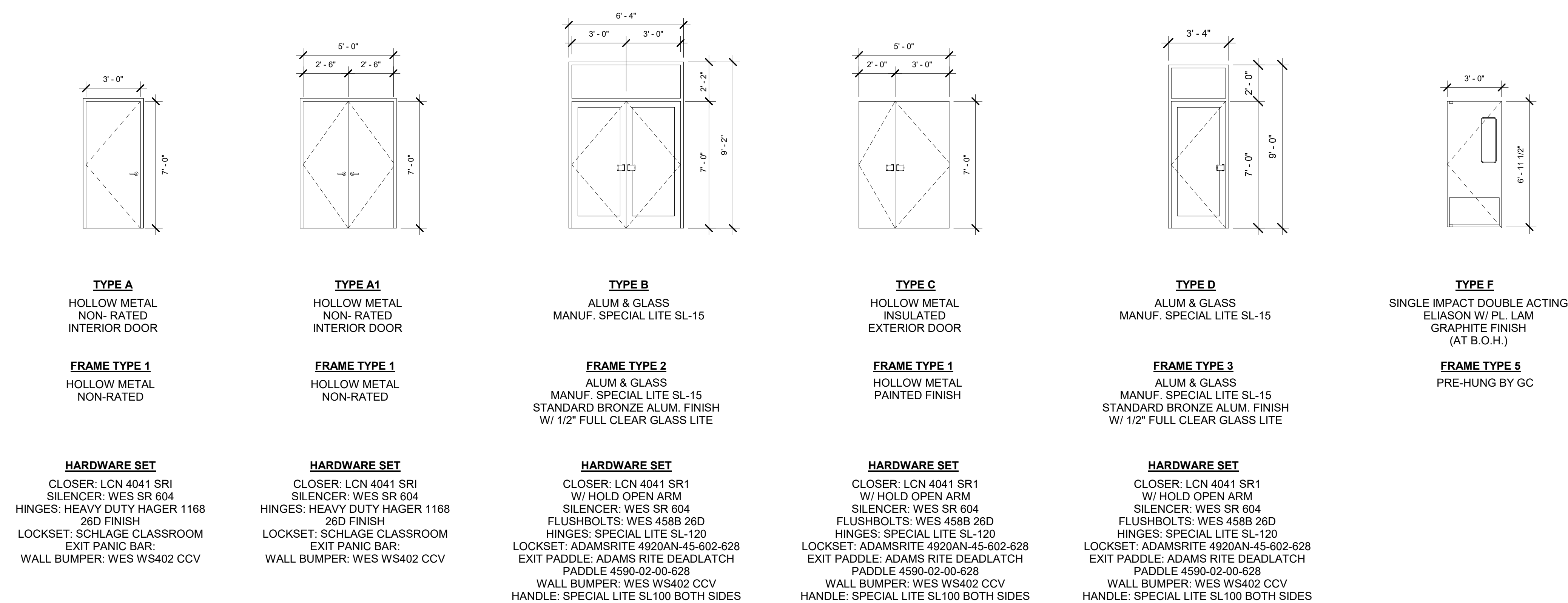
DOOR FRAME DETAIL



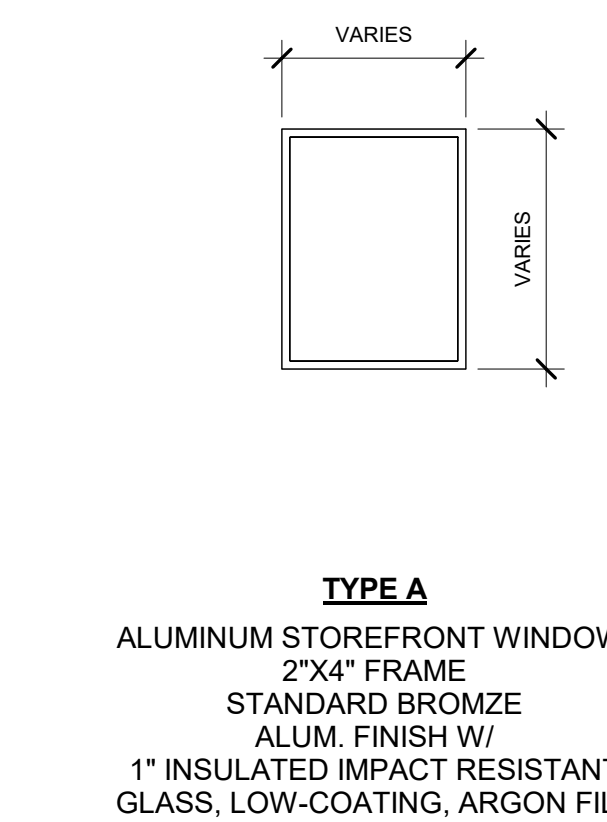
WINDOW SCHEDULE				
MARK	Type	WIDTH	HEIGHT	COMMENTS
1	A	3'-10"	7'-2"	
2	A	3'-10"	7'-2"	
3	A	3'-10"	7'-2"	
4	A	3'-10"	7'-2"	
5	A	3'-10"	7'-2"	
6	A	3'-10"	7'-2"	
7	A	3'-10"	7'-2"	
8	A	3'-10"	7'-2"	
9	A	3'-0"	4'-0"	
10	A	3'-0"	4'-0"	
11	A	3'-0"	4'-0"	
12	A	2'-4"	3'-6"	
13	A	3'-0"	3'-6"	
14	A	6'-0"	3'-6"	
16	A	6'-1"	3'-0"	
18	A	2'-6"	5'-0"	
19	A	6'-4"	3'-2"	
20	A	3'-10"	5'-0"	
23	A	3'-10"	6'-7"	
24	A	3'-0"	6'-6"	



DOOR TYPES



WINDOW TYPES



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321 SOUTH YORK ROAD
HATBORO, PA 19040

STRUCTURAL ENGINEER:
CKS STRUCTURES, INC.
280 N. PROVIDENCE RD, SUITE 105
MEDIA, PA 19063

CAPE MAY COUNTY ZOO SAFARI CAFE 2 NEW RETAIL FOOD BUILDING
707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210

TITLE: DOOR AND WINDOW SCHEDULES AND DETAILS
DWG. NO. **A001**

DRAWN BY: PG APPROVED BY: AT
SCALAS indicated JOB#: 1610-021



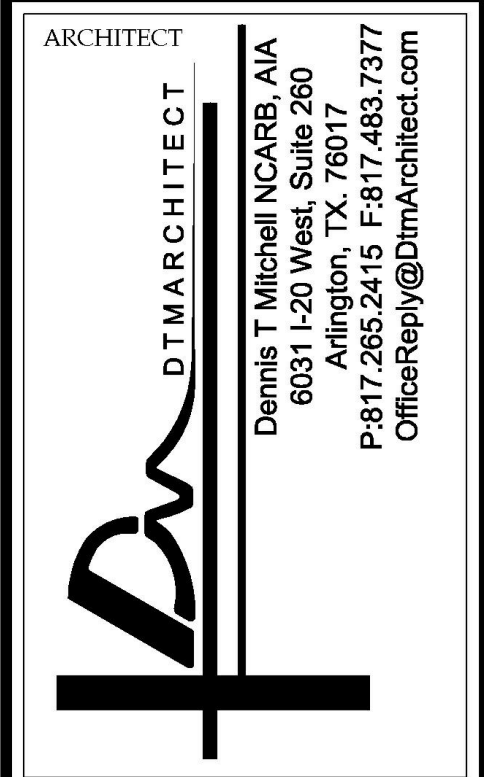
WALL (PARTITION) TYPES

#	DESCRIPTION	FIRE RATING
1A	EXTERIOR WALL 2X8 WOOD STUDS @ 16" O.C. W/ MIN. R-21 INSULATION, (1) LAYER 5/8" TYPE "X" GWB AT INTERIOR, 5/8" CDX PLYWOOD SHEATHING, BUILDING WRAP, SHEATHING, STUCCO ON METAL LATHE AT EXTERIOR	0 HR
1B	INTERIOR BEARING WALL 2X8 WOOD STUDS @ 16" O.C., (1) LAYER 5/8" GWB ON BOTH SIDE	0 HR
1C	INTERIOR WALL 2X8 WOOD STUDS @ 16" O.C., (1) LAYER 5/8" GWB ON BOTH SIDE	0 HR
2A	EXTERIOR BEARING WALL 2X6 WOOD STUDS @ 16" O.C. W/ R-21 INSULATION, (1) LAYER 5/8" TYPE "X" GWB AT INTERIOR, 5/8" CDX PLYWOOD SHEATHING, BUILDING WRAP, VINYL SIDING AT EXTERIOR	0 HR
2B	INTERIOR BEARING WALL 2X6 WOOD STUDS @ 16" O.C. (1) LAYER 5/8" GWB BOTH SIDES	0 HR
3	INTERIOR WALL 2X4 WOOD STUDS @ 16" O.C. W/ R-19 INSULATION, 1) LAYER 5/8" GWB BOTH SIDES	0 HR
6	WALK-IN COOLER/FREEZER WALL BY REFRIGERATOR MANUFACTURER	0 HR
7	NEW 12" CMU FOUNDATION WALL	0 HR

REFER TO DWG ON SHEET A305 FOR DETAILS

1 FIRST FLOOR - ARCHITECTURAL PLAN
1/4" = 1'-0"

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08-06-19



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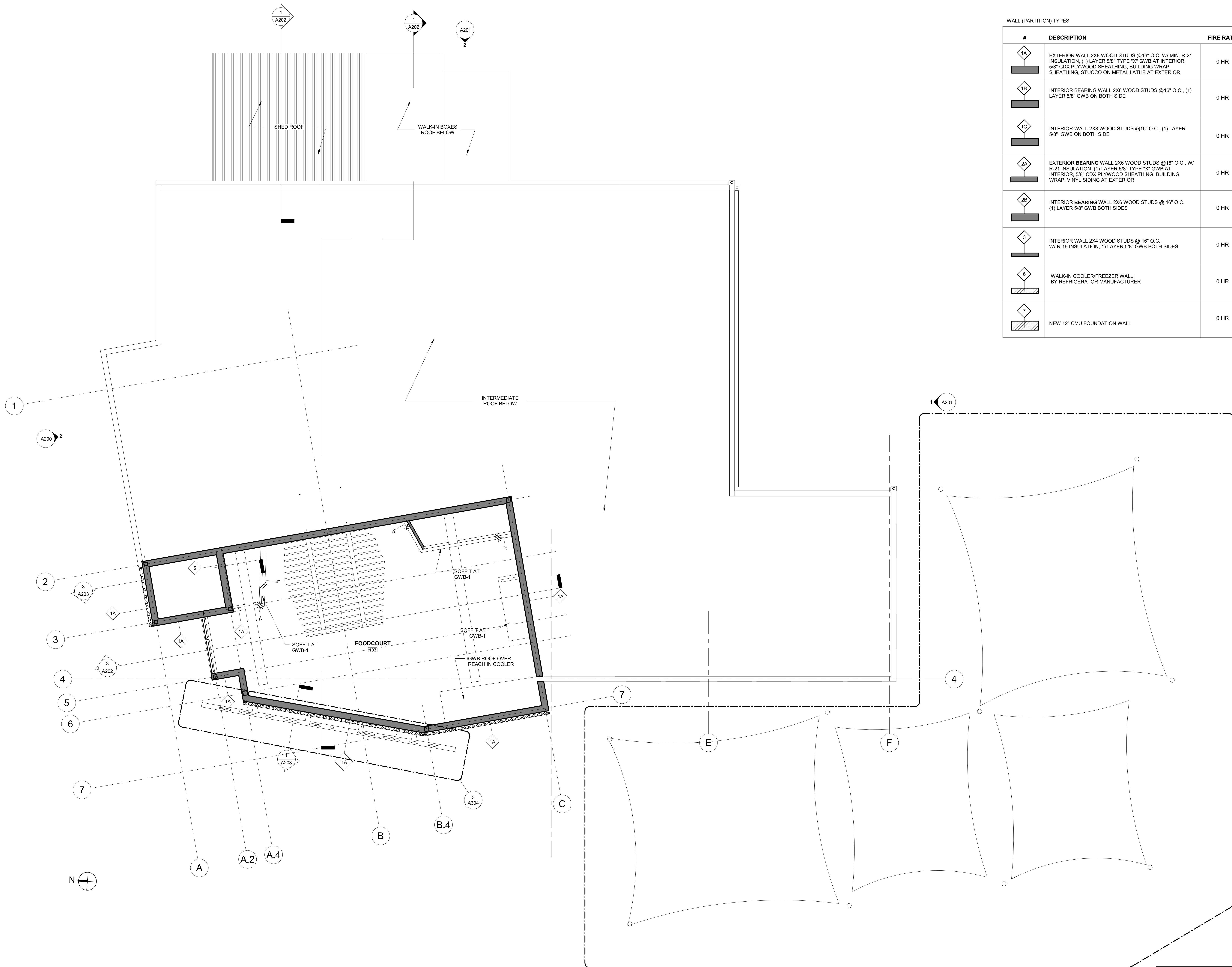
MEP ENGINEER:
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MULHERN CONSULTING ENGINEERS
321 SOUTH YORK ROAD
HATBORO, PA 19040

STRUCTURAL ENGINEER:
CKS STRUCTURES, INC.
280 N. PROVIDENCE RD, SUITE 105
MEDIA, PA 19063

**CAPE MAY COUNTY ZOO SAFARI
CAFE 2 NEW RETAIL FOOD BUILDING**
707 ROUTE 9 NORTH, CAPE MAY COURT
HOUSE, NJ 08210

TITLE:
ARCHITECTURAL FLOOR PLAN
DWG. NO. **A101**
DRAWN (Author)
SCALE 1/4" = 1'-0"
APPROVED BY: AT
JOB#: 1610-021



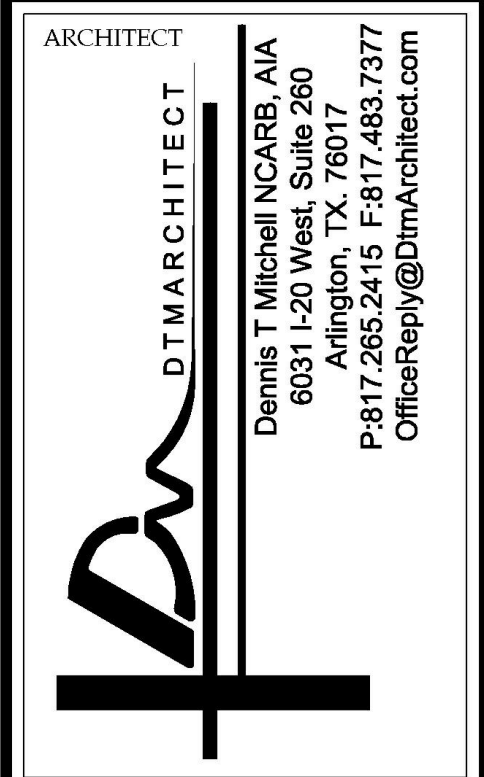
WALL (PARTITION) TYPES

#	DESCRIPTION	FIRE RATING
1A	EXTERIOR WALL 2X8 WOOD STUDS @16" O.C. W/ MIN. R-21 INSULATION, (1) LAYER 5/8" TYPE "X" GWB AT INTERIOR, 5/8" CDX PLYWOOD SHEATHING, BUILDING WRAP, SHEATHING, STUCCO ON METAL LATHE AT EXTERIOR	0 HR
1B	INTERIOR BEARING WALL 2X8 WOOD STUDS @16" O.C., (1) LAYER 5/8" GWB ON BOTH SIDE	0 HR
1C	INTERIOR WALL 2X8 WOOD STUDS @16" O.C., (1) LAYER 5/8" GWB ON BOTH SIDE	0 HR
2A	EXTERIOR BEARING WALL 2X6 WOOD STUDS @16" O.C. W/ R-21 INSULATION, (1) LAYER 5/8" TYPE "X" GWB AT INTERIOR, 5/8" CDX PLYWOOD SHEATHING, BUILDING WRAP, VINYL SIDING AT EXTERIOR	0 HR
2B	INTERIOR BEARING WALL 2X6 WOOD STUDS @16" O.C. (1) LAYER 5/8" GWB BOTH SIDES	0 HR
3	INTERIOR WALL 2X4 WOOD STUDS @16" O.C., W/ R-19 INSULATION, 1) LAYER 5/8" GWB BOTH SIDES	0 HR
6	WALK-IN COOLER/FREEZER WALL: BY REFRIGERATOR MANUFACTURER	0 HR
7	NEW 12" CMU FOUNDATION WALL	0 HR

REFER TO DWG ON SHEET A305 FOR DETAILS

1 FIRST FLOOR PLAN - UPPER
1/4" = 1'-0"

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MULHERN CONSULTING ENGINEERS
321 SOUTH YORK ROAD
HATBORO, PA 19040

STRUCTURAL ENGINEER:
CKS STRUCTURES, INC.
280 N. PROVIDENCE RD, SUITE 105
MEDIA, PA 19063

TITLE:
**CAPE MAY COUNTY ZOO SAFARI
CAFE 2 NEW RETAIL FOOD BUILDING**
UPPER WINDOWS
DWG. NO. **A101.1**

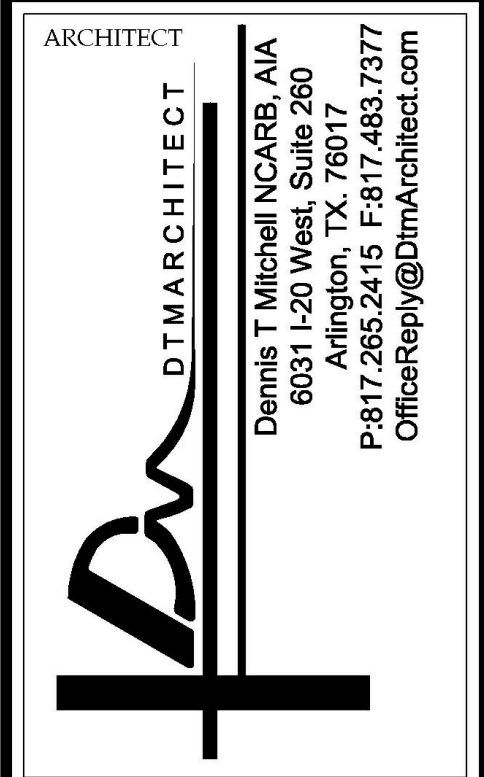
APPROVED BY: AT
DRAWN/Author
SCALE/1/4" = 1'-0"
JOB#: 1610-021

707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210



1 ROOF PLAN
1/4" = 1'-0"

ISSUE FOR BID
08-06-19



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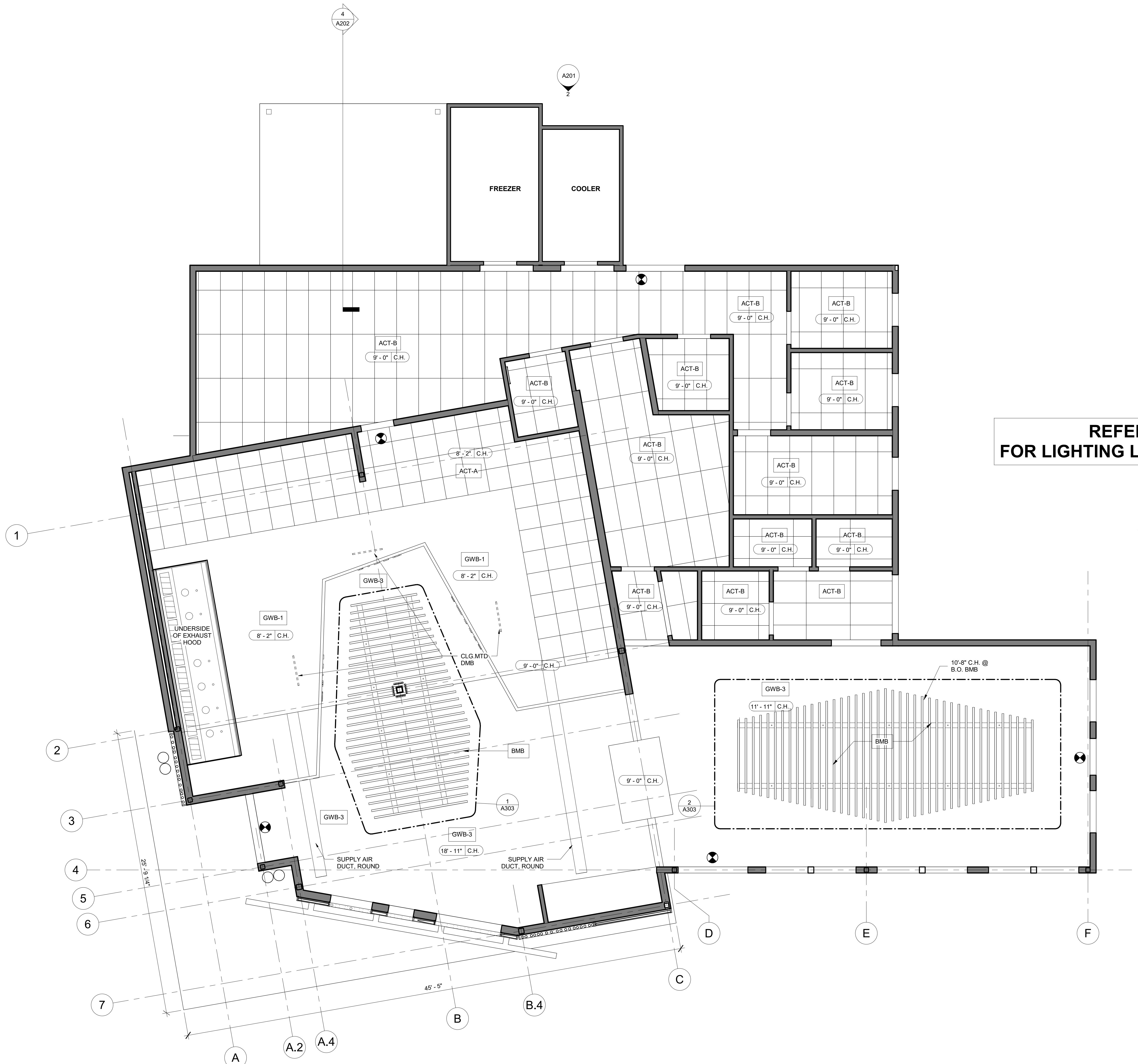
STRUCTURAL ENGINEER:
MULHERN CONSULTING ENGINEERS
321 SOUTH YORK ROAD
HATBORO, PA 19040

STRUCTURAL ENGINEER:
CKS STRUCTURES, INC.
280 N. PROVIDENCE RD, SUITE 105
MEDIA, PA 19063

**CAPE MAY COUNTY ZOO SAFARI
CAFE 2 NEW RETAIL FOOD BUILDING**
707 ROUTE 9 NORTH, CAPE MAY COURT
HOUSE, NJ 08210

DRAWN (Author)
SCALE 1/4" = 1'-0"
APPROVED BY: AT
JOB#: 1610-021

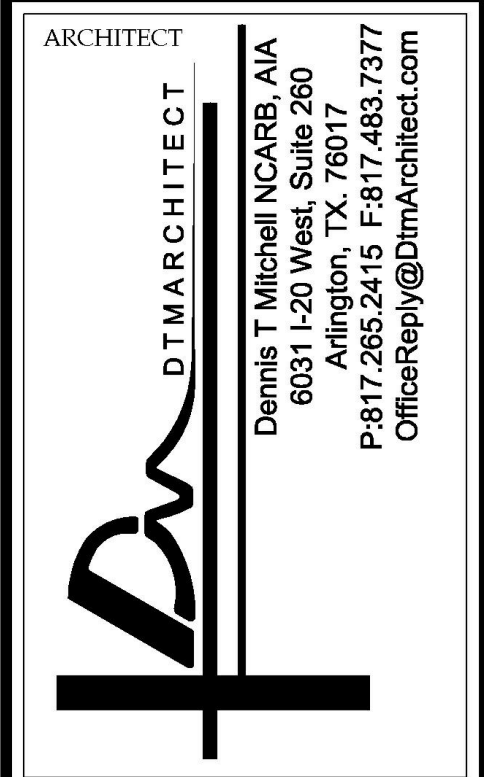
TITLE:
ROOF PLAN
DWG. NO.
A102



- SYMBOL LEGEND**
- CENTERLINE OF LIGHT FIXTURE
 - ⊗ EXIT SIGN
 - X'-X" C.H. CEILING HEIGHT
- CEILING TYPES**
- GWB-# GYPSUM WALL BOARD PAINT FINISH
 - BMB 2" BAMBOO LOGS IN SUSPENDED STEEL FRAME
 - ACT-A 2X2 ACOUSTIC CEILING; ARMSTRONG VL CLEAN ROOM CEILING, UNPERFORATED #888 W/ 15/16" W/ 1 1/2" EXPOSED TEE SYSTEM, WHITE
 - ACT-B 2X4 ACOUSTIC CEILING; ARMSTRONG VL CLEAN ROOM CEILING, UNPERFORATED #879 W/ 15/16" W/ 1 1/2" EXPOSED TEE SYSTEM, WHITE

**REFER TO SHEET A104
FOR LIGHTING LOCATIONS AND SCHEDULE**

1 FIRST FLOOR - REFLECTED CEILING PLAN - CEILING DIMENSIONS
1/4" = 1'-0"



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MEP ENGINEER:
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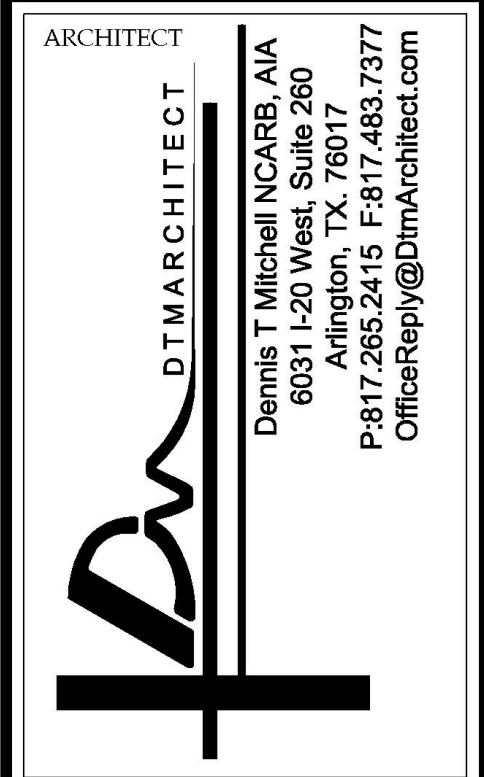
MULHERN CONSULTING ENGINEERS
321 SOUTH YORK ROAD
HATBORO, PA 19040

STRUCTURAL ENGINEER:
CKS STRUCTURES, INC.
280 N. PROVIDENCE RD, SUITE 105
MEDIA, PA 19063

**CAPE MAY COUNTY ZOO SAFARI
CAFE 2 NEW RETAIL FOOD BUILDING**
707 ROUTE 9 NORTH, CAPE MAY COURT
HOUSE, NJ 08210

TITLE:
REFLECTED CEILING PLAN -
CEILING DIMENSIONS
DWG. NO. **A103**
DRAWN (Author)
SCALE 1/4" = 1'-0"
APPROVED BY: AT
JOB#: 1610-021

ISSUE FOR BID
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MULHERN CONSULTING ENGINEERS
 321 SOUTH YORK ROAD
 HATBORO, PA 19040

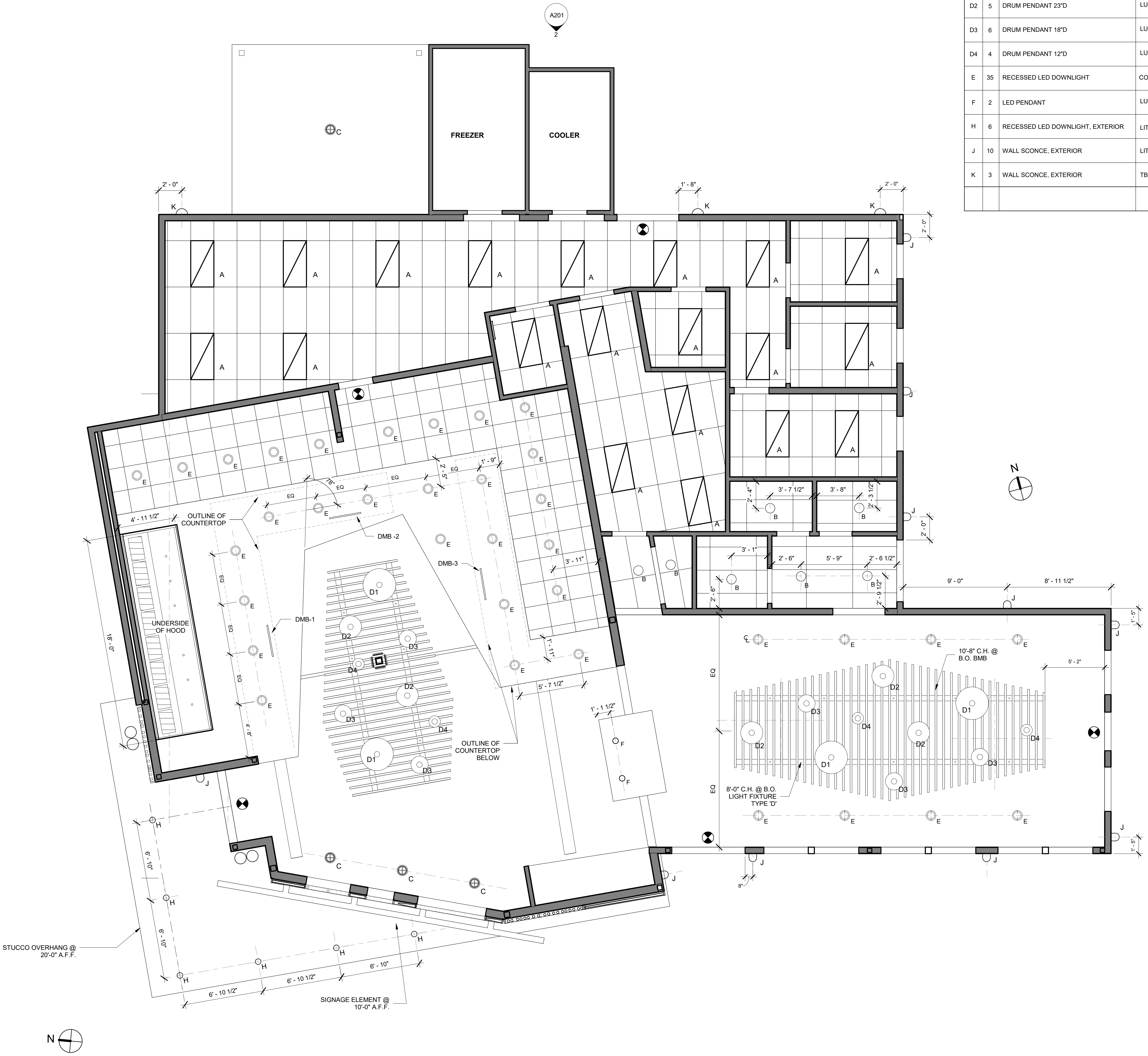
STRUCTURAL ENGINEER:
CKS STRUCTURES, INC.
 280 N. PROVIDENCE RD, SUITE 105
 MEDIA, PA 19063

**CAPE MAY COUNTY ZOO SAFARI
 CAFE 2 NEW RETAIL FOOD BUILDING**
 707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210

TITLE:
REFLECTED CEILING PLAN - LIGHT FIXTURE DIMENSIONS
 DWG. NO. **A104**
 APPROVED BY: AT
 DRAWN (Author)
 SCALE 1/4" = 1'-0"
 JOB#: 1610-021

LIGHTING LEGEND

TYPE	QTY	DESCRIPTION	MANUFACTURER	CATALOG #	COLOR/MOUNT	LAMP(S)	VOLTAGE	REMARKS
A	20	2X4 LED FIXTURE W PRIMATIC LENS	LITHONIA	2GTL04 48L FW A12 50W LP835 NX		LED	120 V	
B	7	7" DIA SURFACE MOUNT LED	LITHONIA	FMML-7-30-DNA-WL 9.3W		LED	120 V	
C	4	INDUSTRIAL STYLE PENDANT	PROGRESS	PCVTS - LED, 11W		COB LED	120 V	
D1	4	DRUM PENDANT 34"D	LUMETTA	P53414Z-F3-D92-LED	BLACK CORD	LED 3/18.5 WX1 ICATO UNV/120	120 V	DIFFUSER D92 CR TURQUOISE
D2	5	DRUM PENDANT 23"D	LUMETTA	P52314Z-F3-D33-LED	BLACK CORD	LED 3/18.5 WX1 ICATO UNV/120	120 V	DIFFUSER D33 GRID MUSTARD
D3	6	DRUM PENDANT 18"D	LUMETTA	P51814Z-F3-D46-LED	BLACK CORD	LED 3/18.5 WX1 ICATO UNV/120	120 V	DIFFUSER D46 OLIVE
D4	4	DRUM PENDANT 12"D	LUMETTA	P51210Z-F3-D45LED	BLACK CORD	LED 3/18.5 WX1 ICATO UNV/120	120 V	DIFFUSER D45 POPPY
E	35	RECESSED LED DOWNLIGHT	CONTRAST	NW LED 300 LE2/LD3D-C-11-AN-30-90-M-2	WHITE TRIM	23 WATT LED COB	120 V	
F	2	LED PENDANT	LUMETTA	AP050812-FX-D166-LEDW/LBA1	BLACK CANOPY	LED 1/18.5WX1 ICATO UNV W/	120 V	D166 SUNFLOWER DIFFUSER
H	6	RECESSED LED DOWNLIGHT, EXTERIOR	LITHONIA	L7XLED T24 / REAL6D6 MW 600L(8w), 30K, 0.65SC, ISH		LED 8W	120 V	
J	10	WALL SCONCE, EXTERIOR	LITHONIA	VV1501 - LED		100 WATT MAX. INCANDESCENT LED	120 V	
K	3	WALL SCONCE, EXTERIOR	TBD			100 WATT MAX. INCANDESCENT LED	120 V	



- SYMBOL LEGEND**
- CENTERLINE OF LIGHT FIXTURE
 - ⊙ EXIT SIGN
 - (X'-X" C.H.) CEILING HEIGHT
- CEILING TYPES**
- GWB-# GYPSUM WALL BOARD PAINT FINISH
 - BMB 2" BAMBOO LOGS IN SUSPENDED STEEL FRAME
 - ACT-A 2X2 ACOUSTIC CEILING: ARMSTRONG VL CLEAN ROOM CEILING, UNPERFORATED #868 W/ 15/16" W/ 1 1/2" EXPOSED TEE SYSTEM, WHITE
 - ACT-B 2X4 ACOUSTIC CEILING: ARMSTRONG VL CLEAN ROOM CEILING, UNPERFORATED #879 W/ 15/16" W/ 1 1/2" EXPOSED TEE SYSTEM, WHITE

1 FIRST FLOOR - REFLECTED CEILING PLAN - LIGHT FIXTURE DIMENSIONS
 1/4" = 1'-0"

ISSUE FOR BID
 08-06-19

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 DOWNINGTOWN, PA 19335

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 321 SOUTH YORK ROAD
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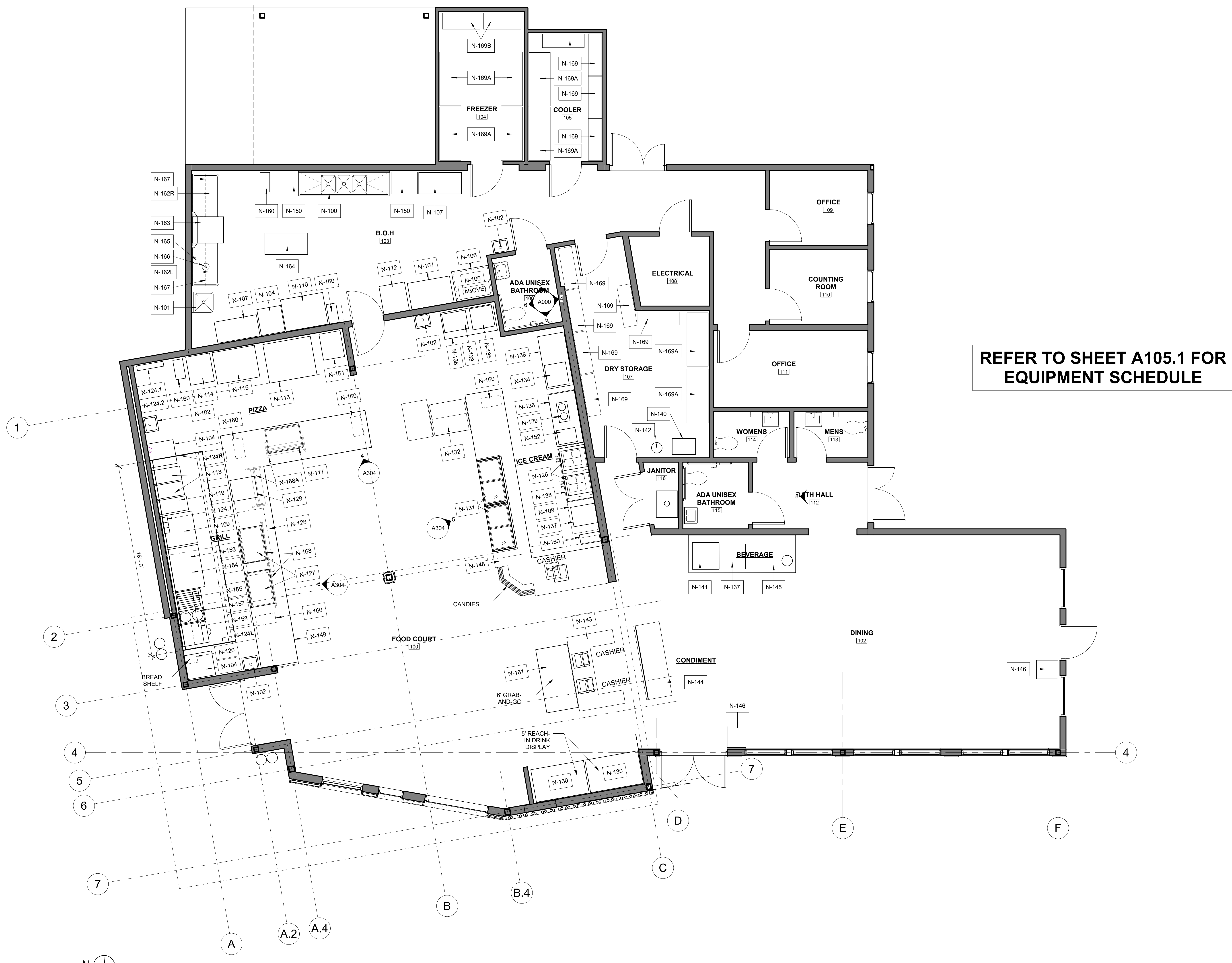
STRUCTURAL ENGINEER:
CKS STRUCTURES, INC.
 280 N. PROVIDENCE RD, SUITE 105
 MEDIA, PA 19063

**CAPE MAY COUNTY ZOO SAFARI
 CAFE 2 NEW RETAIL FOOD BUILDING**
 707 ROUTE 9 NORTH, CAPE MAY COURT
 HOUSE, NJ 08210

DRAWN FM/PG APPROVED BY: AT
 SCALE 1/4" = 1'-0" JOB#: 1610-021

TITLE:
EQUIPMENT PLAN
 DWG. NO. **A105**

ISSUE FOR BID
 08-06-19



1 FIRST FLOOR EQUIPMENT PLAN
 1/4" = 1'-0"

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MULHREN CONSULTING ENGINEERS
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 HATBORO, PA 19040

STRUCTURAL ENGINEER:
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 280 N. PROVIDENCE RD, SUITE 105
 MEDIA, PA 19063

**CAPE MAY COUNTY ZOO SAFARI
 CAFE 2 NEW RETAIL FOOD BUILDING**
 707 ROUTE 9 NORTH, CAPE MAY COURT
 HOUSE, NJ 08210

TITLE:
**MILLWORK, FURNITURE AND
 TECHNICAL PLAN**
 DWG. NO. **A106**
 APPROVED BY: AT
 JOB#: 1610-021
 DRAWN (Author)
 SCALAS indicated

LEGEND	
D	DATA OUTLET

G.C NOTES
 1. G.C TO COORDINATE LOCATION OF DATA AND POWER DEVICES W/DESIGNER AND ARMARK BEFORE INSTALL. ANY DATA AND POWER INSTALLED WITHOUT APPROVAL BY DESIGNER AND ARMARKS THAT PROVE TO BE IN AN INCORRECT LOCATION WILL HAVE TO BE BY G.C AT G.C EXPENSE.
 SEE EQUIPMENT DRAWINGS AND MILLWORK DETAIL PLANS FOR LOCATION OF EQUIPMENT AND MILLWORK

DATA/POWER NOTES
 NOTE 1:
 - DIGITAL MENU BOARDS
 - PROVIDE POWER TO ALL DIGITAL MENU BOARDS
 - PROVIDE DATA & POWER CONNECTIONS TO MEDIA BOXES W/ HOMERUN TO DATA TERMINATION
 NOTE 2:
 - PROVIDE DATA OUTLET AT CASH REGISTERS AND QUAD OUTLETS AT EACH REGISTER

FURNITURE SCHEDULE

NO	LOCATION	DESCRIPTION	QTY	NO	LOCATION	DESCRIPTION	QTY
T-1	DINING ROOM TABLE	MANUF: GRAND RAPIDS CHAIR WOOD TABLE TOP: SPECIES-MAPLE P/N: SP2439RT WOOD FINISH: ALMOND EDGE: BULLNOSE BASE: DINING HEIGHT BASE BASE POWDERCOAT: SATIN TES GLIDES: STANDARD GLIDES	19	C-1	DINING ROOM CHAIR	MANUF: GRAND RAPIDS CHAIR BRADY CHAIR ARA FRAME POWDERCOAT: SATIN TEX WOOD P/N: BRADY CHAIR 250 SEAT AND BACK FINISH: ALMOND GLIDES: STANDARD NYLON GLIDES	38
T-2	FOOD COURT TABLE	MANUF: GRAND RAPIDS CHAIR WOOD TABLE TOP: SPECIES-MAPLE P/N: SP36-42 WOOD FINISH: ALMOND EDGE: BULLNOSE BASE: DINING HEIGHT BASE BASE POWDERCOAT: SATIN TES GLIDES: STANDARD GLIDES	3	C-2	FOOD COURT CHAIR	MANUF: GRAND RAPIDS CHAIR BRADY CHAIR 250 FRAME POWDERCOAT: SATIN TEX WOOD P/N: BRADY CHAIR 250 SEAT AND BACK FINISH: ALMOND GLIDES: STANDARD NYLON GLIDES	12
T-3	OUTDOOR TABLE	MANUF: BFM ALUM TABLE W/ POWDER COAT HAMPTON SERIES, RECTANGLE STANDARD HEIGHT SIZE: 24X32 COLOR: BRONZE	50	C-3	OUTDOOR CHAIR	MANUF: BFM ALUM TABLE W/ POWDER COAT HAMPTON SERIES, SIDE CHAIR P/N: PHR30C SIZE: DINING HEIGHT COLOR: BRONZE	100



1 FIRST FLOOR MILLWORK AND FURNITURE PLAN
 1/4" = 1'-0"

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ROOM FINISH SCHEDULE

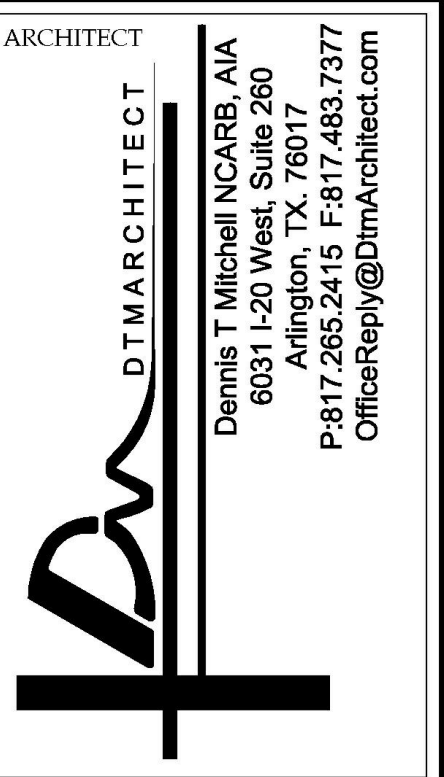
ROOM	FLOOR	BASE	WALL				CEILING	NOTE
			E	S	W	N		
100	F-2	WB-1	P-1	P-1	P-1	P-3	P-3	SOFFIT SHELF = P-3, UPPER SOFFIT = P-2, HVAC DUCT = P-5
101	F-1	T-2	T-2	T-2	-	T-2	ACT (SEE RCP)	-
102	F-2	WB-1	P-1	P-3	P-3	P-3	P-3	CASHIER SOFFIT SHELF = P-3, UPPER SOFFIT = P-2, CHAIRRAIL = P-5, HVAC DUCT = P-5
103	F-1	F-1B	P-4	P-4	P-4	P-4	ACT (SEE RCP)	-
104	NIC	NIC	NIC	NIC	NIC	NIC	NIC	-
105	NIC	NIC	NIC	NIC	NIC	NIC	NIC	-
106	T-1	TB-1	P-4	P-4	P-4	P-4	ACT (SEE RCP)	-
107	F-1	F-1B	P-4	P-4	P-4	P-4	ACT (SEE RCP)	-
108	F-1	F-1B	P-4	P-4	P-4	P-4	ACT (SEE RCP)	-
109	F-2	WB-1	P-3	P-3	P-3	P-3	ACT (SEE RCP)	-
110	F-2	WB-1	P-3	P-3	P-3	P-3	ACT (SEE RCP)	-
111	F-2	WB-1	P-3	P-3	P-3	P-3	ACT (SEE RCP)	-
112	T-1	TB-1	P-1	P-1	P-1	P-1	ACT (SEE RCP)	-
113	T-1	TB-1	T-2	T-2	T-2	T-2	ACT (SEE RCP)	-
114	T-1	TB-1	T-2	T-2	T-2	T-2	ACT (SEE RCP)	-
115	T-1	TB-1	T-2	T-2	T-2	T-2	ACT (SEE RCP)	-
116	F-1	F-1B	P-4	P-4	P-4	P-4	ACT (SEE RCP)	-

FINISHES LIST - FLOOR & WALL

DESIGN ID	ITEM	DESCRIPTION	COLOR	COMMENTS
P-1	PAINT	MANUF: BENJAMIN MOORE STYLE: LOW LUSTER	STEM GREEN 2029-40	
P-2	PAINT	MANUF: BENJAMIN MOORE STYLE: LOW LUSTER	BLUE LAKE 2053-40	
P-3	PAINT	MANUF: BENJAMIN MOORE STYLE: LOW LUSTER	WHITE ROCK 918	
P-4	PAINT - EPOXY	MANUF: BENJAMIN MOORE STYLE: LOW LUSTER	WHITE ROCK 918	
P-5	PAINT	MANUF: BENJAMIN MOORE STYLE: SEMI GLOSS	DRAGON'S BREATH 1547	
SS-1	SOLID SURFACE	MANUF: DUPONT STYLE: ZODIAQ	CLOUD WHITE	
WB-1	WOOD BASE	PAINT W/ P-2 (SEMIGLOSS)		
TB-1	TILE BASE	MANUF: DAL TILE 6X12 CONTINENTAL SLATE	ASIAN BLACK	
BAM-1	BAMBOO	MANUF: MARKET SOURCE STYLE: 2" ROUND POLE	SPECKLED	
F-1	EPOXY FLOOR	MANUF: DEX-O-TEX TEK CRETE SL W/CHEMREZ ZCR W/6" INTEGRAL COVE BASE	SPEEDWAY GRAY	
F-1B	EPOXY INTEGRAL BASE	MANUF: DEX-O-TEX TEK CRETE SL W/CHEMREZ ZCR	SPEEDWAY GRAY	
F-2	POLISHED CONCRETE			
T-1	FLOOR TILE	MANUF: DAL TILE 12X12 PORCELAIN TILE W/ 6X12" MATCHING BASE CONTINENTAL SLATE MB= MARBLE THRESHOLD	ASIAN BLACK	
T-2	WALL TILE	MANUF: AMERICAN OLEAN URBAN OASIS WAVE 4 1/4X12 3/4" CERAMIC TILE	GLOSS LIGHT SMOKE #0042 (1)	SCHLUTER EDGE PROFILE @ OUTSIDE CORNER & BOTTOM EDGES

1 FIRST FLOOR - FINISHES PLAN
1/4" = 1'-0"

ISSUE FOR BID
08-06-19



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CAFE 2 NEW RETAIL FOOD BUILDING**
707 ROUTE 9 NORTH, CAPE MAY COURT
HOUSE, NJ 08210

APPROVED BY: AT
JOB#: 1610-021
DRAWN (Author)
SCALAS indicated

TITLE:
FINISH PLAN
DWG. NO. **A107**

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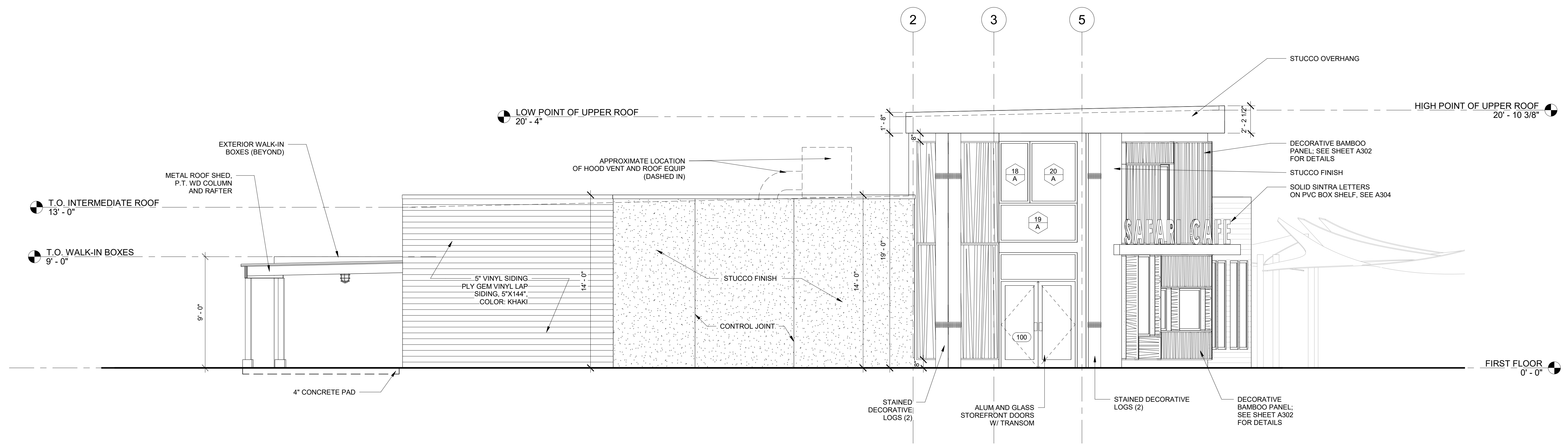
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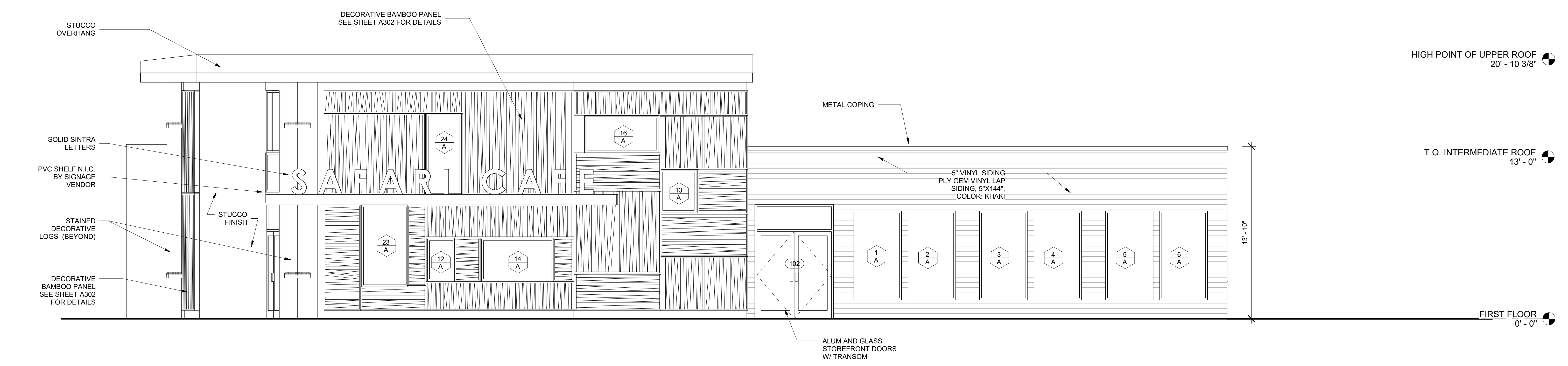
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2 WEST ELEVATION
 1/4" = 1'-0"



1 SOUTH ELEVATION
 1/4" = 1'-0"

**CAPE MAY COUNTY ZOO SAFARI
 CAFE 2 NEW RETAIL FOOD BUILDING**
 707 ROUTE 9 NORTH, CAPE MAY COURT
 HOUSE, NJ 08210

TITLE:
EXTERIOR ELEVATIONS
 DWG. NO.
A200
 APPROVED BY: AT
 DRAWN/Author
 SCALE/1/4" = 1'-0"
 JOB#: 1610-021

ISSUE FOR BID
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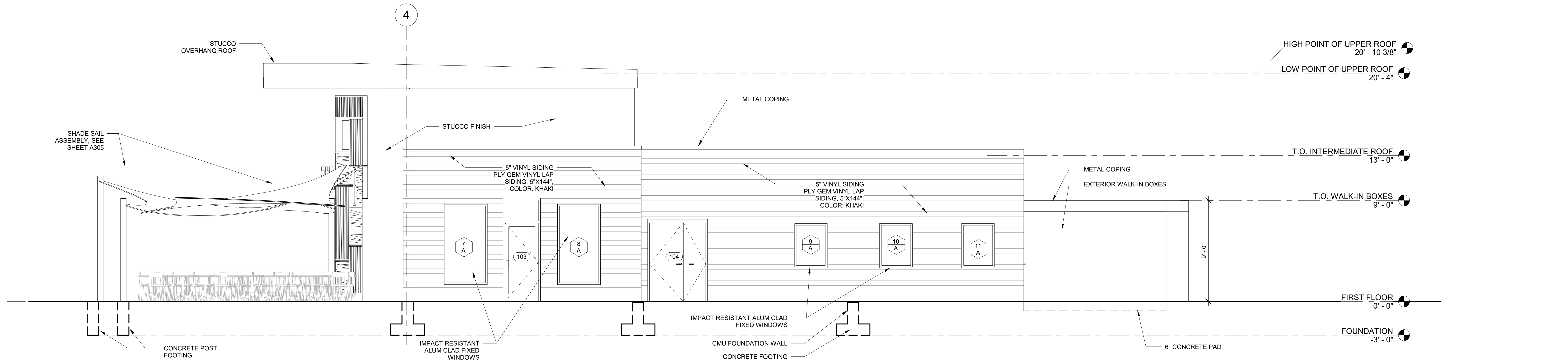
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STRUCTURAL ENGINEER:
MULHERN CONSULTING ENGINEERS
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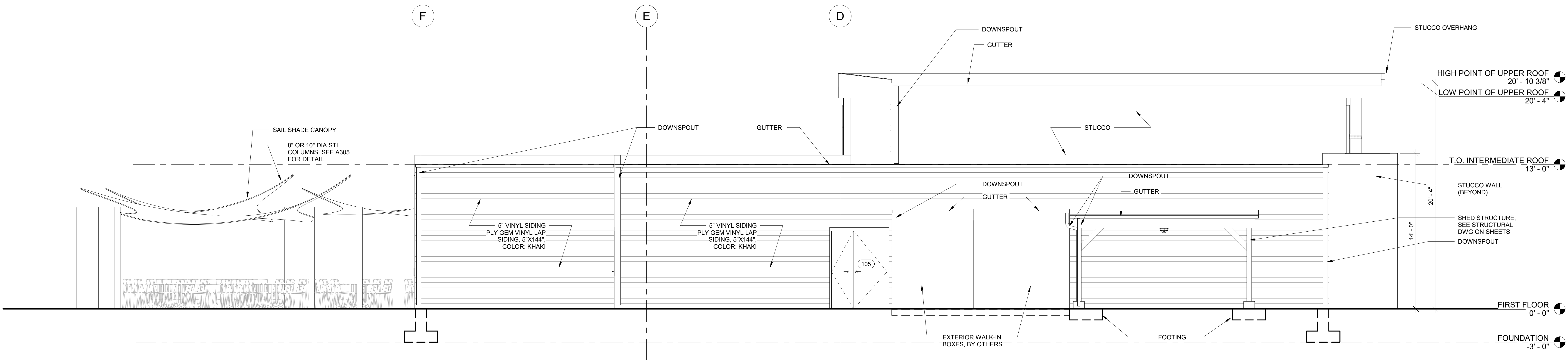
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 HOUSE, NJ 08210

TITLE:
EXTERIOR ELEVATIONS
 DWG. NO. **A201**
 APPROVED BY: AT
 DRAWN (Author)
 SCALE: 1/4" = 1'-0"
 JOB#: 1610-021

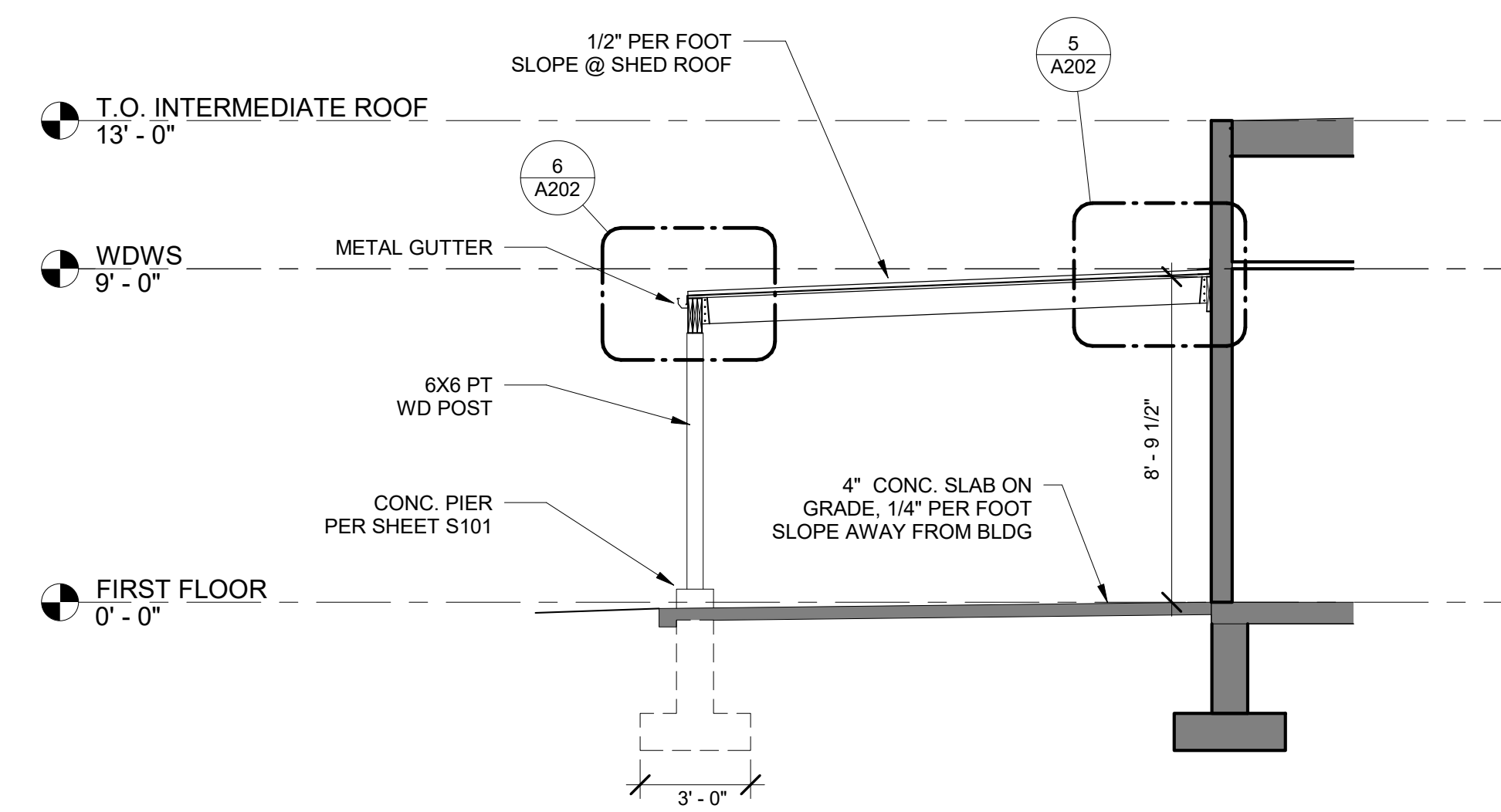
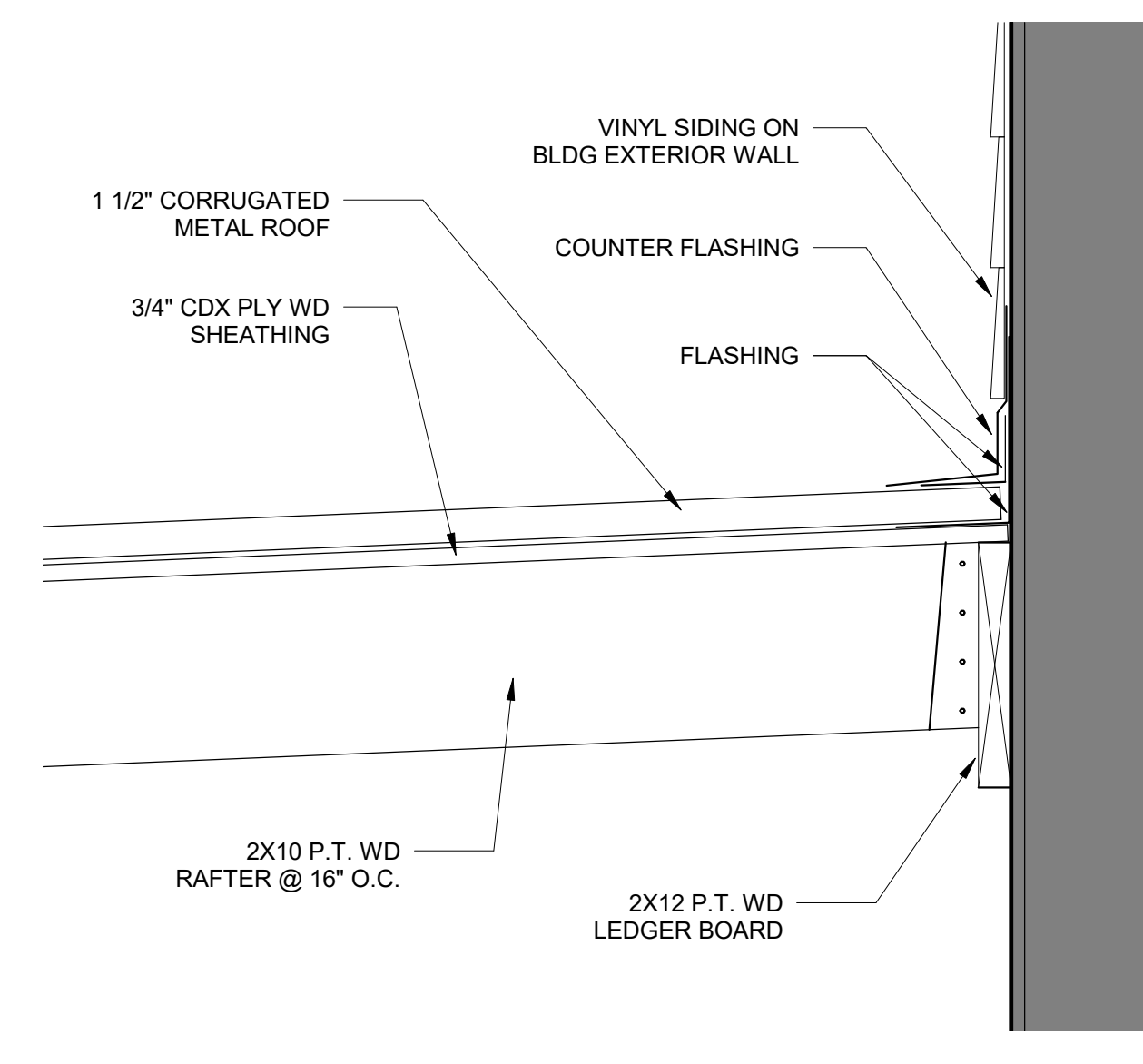
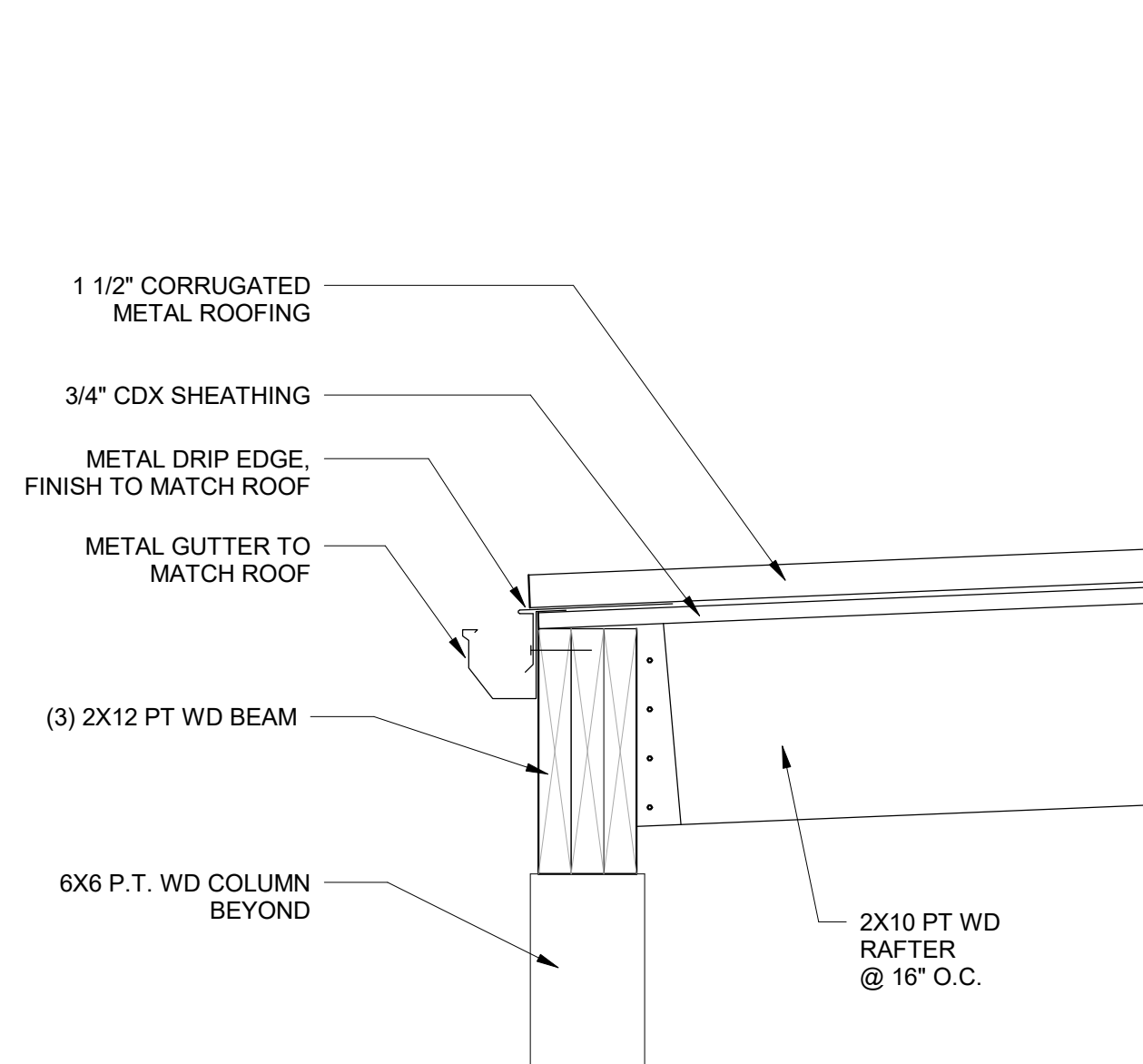
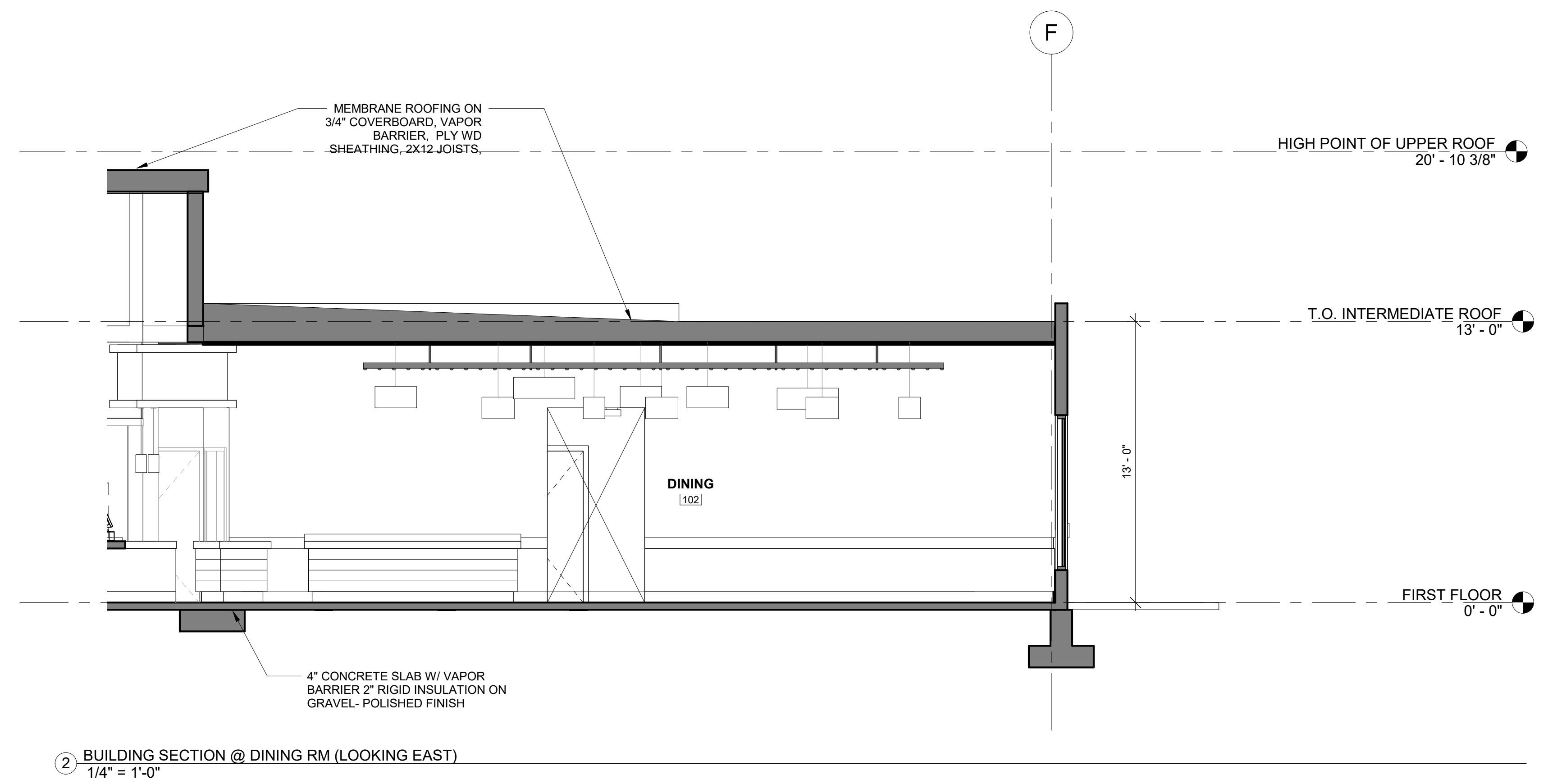
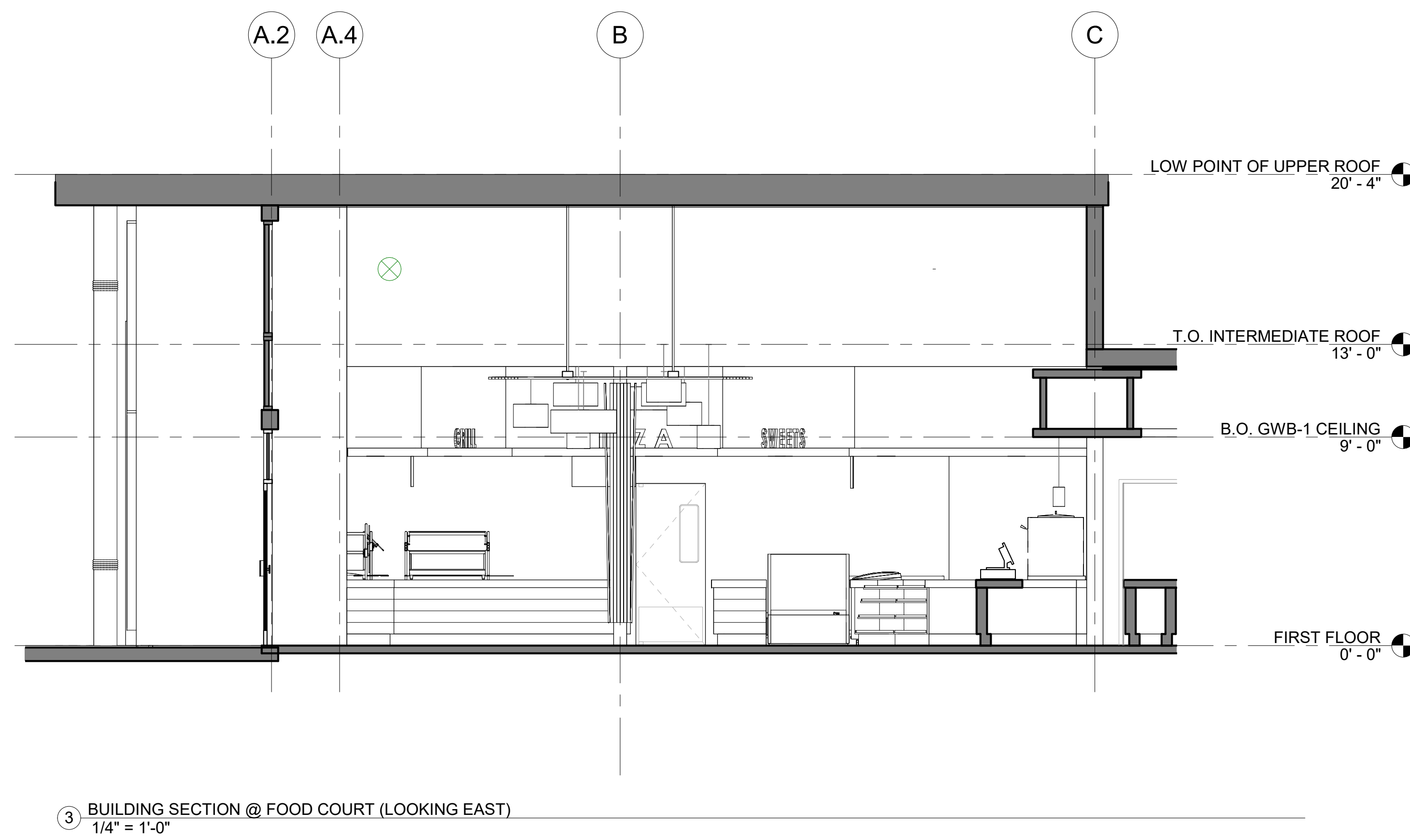
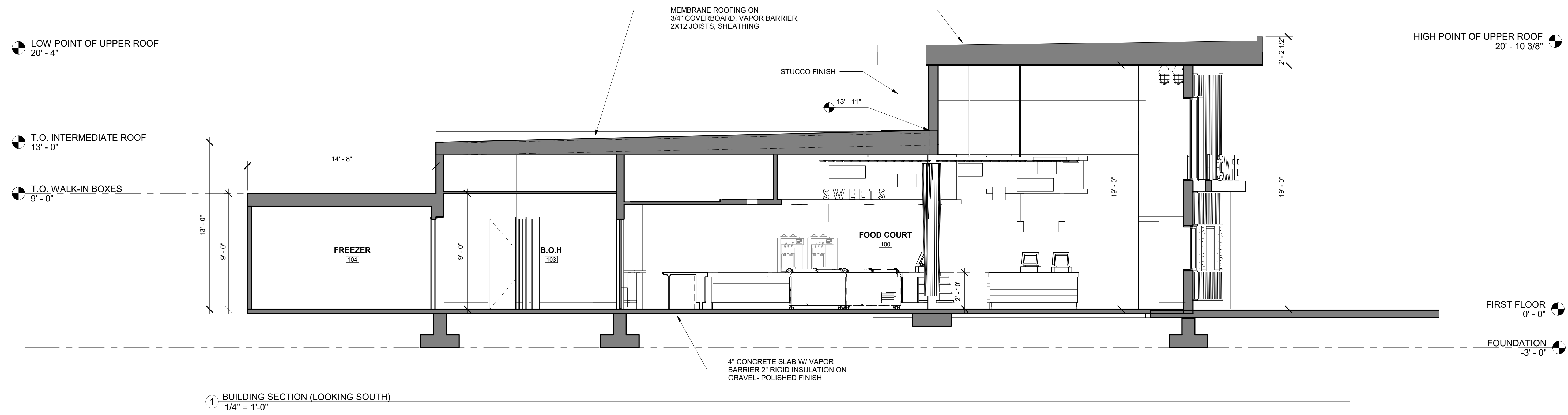


1 EAST ELEVATION
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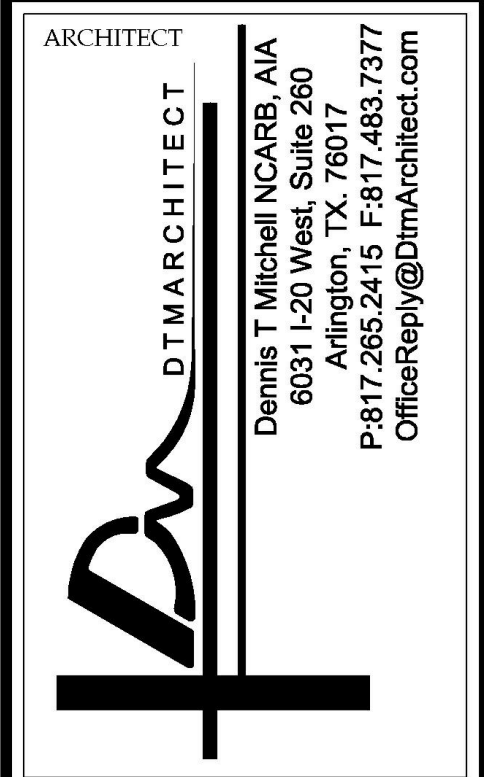


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STRUCTURAL ENGINEER:
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**CAPE MAY COUNTY ZOO SAFARI
CAFE 2 NEW RETAIL FOOD BUILDING**
707 ROUTE 9 NORTH, CAPE MAY COURT
HOUSE, NJ 08210

DRAWN (Author)
SCALAs indicated

APPROVED BY: AT
JOB#: 1610-021

TITLE:
BUILDING SECTIONS
DWG. NO.
A202

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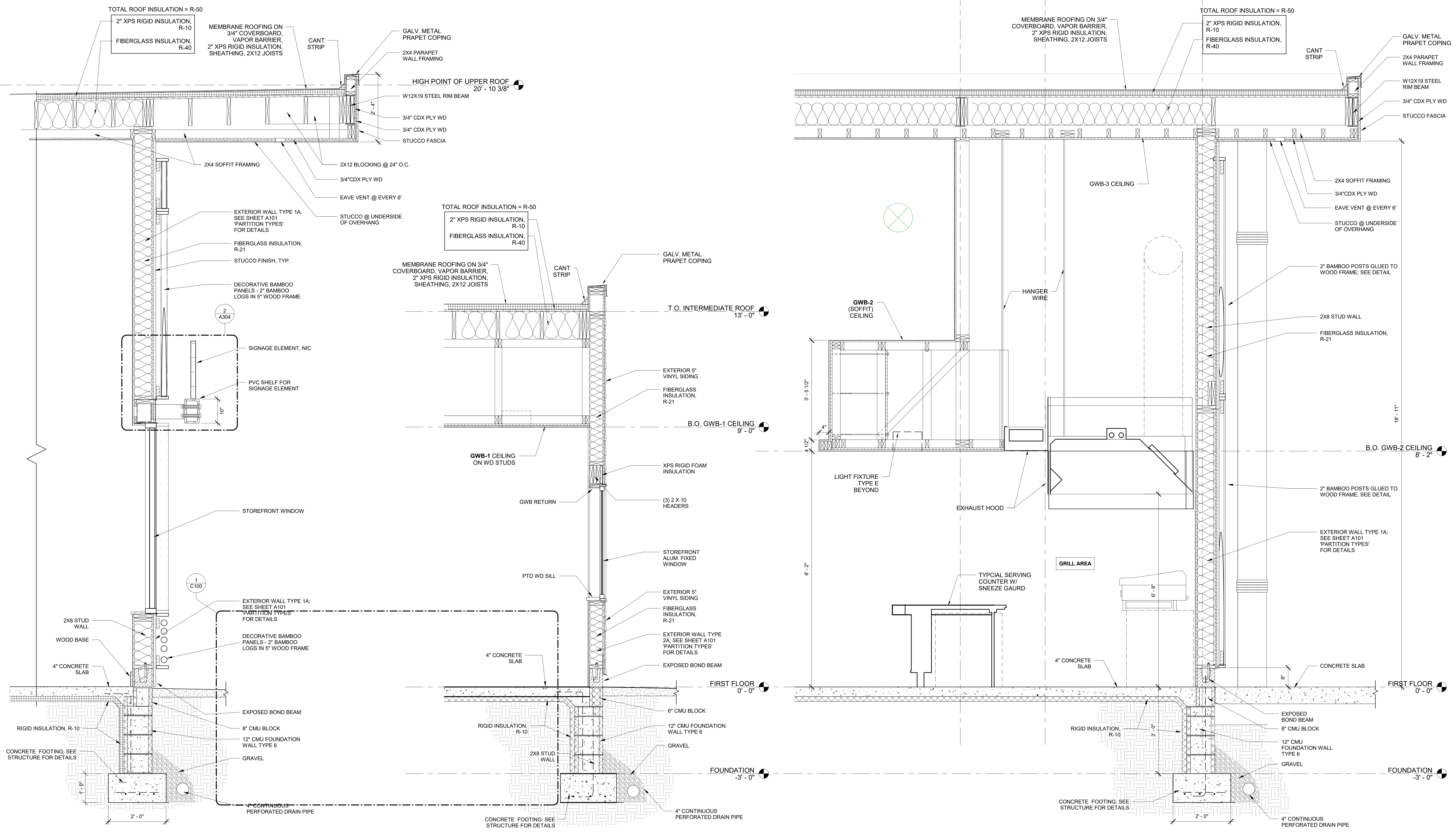
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**CAPE MAY COUNTY ZOO SAFARI
 CAFE 2 NEW RETAIL FOOD BUILDING**
 707 ROUTE 9 NORTH, CAPE MAY COURT
 HOUSE, NJ 08210

APPROVED BY: AT
 16/10-021
 DRAWN (Author)
 SCALES 3/4" = 1'-0"

TITLE:
WALL SECTIONS
 DWG. NO. **A203**

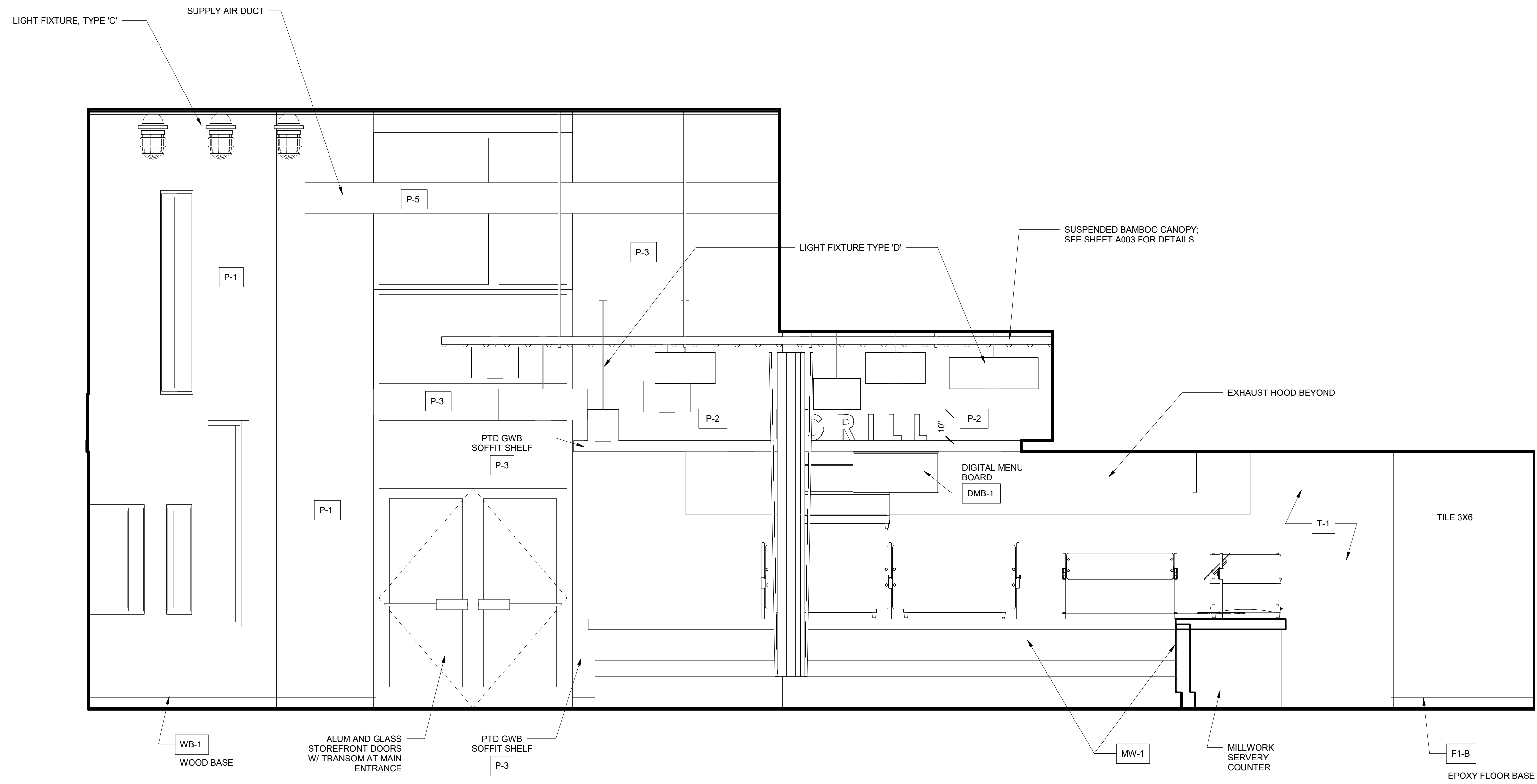
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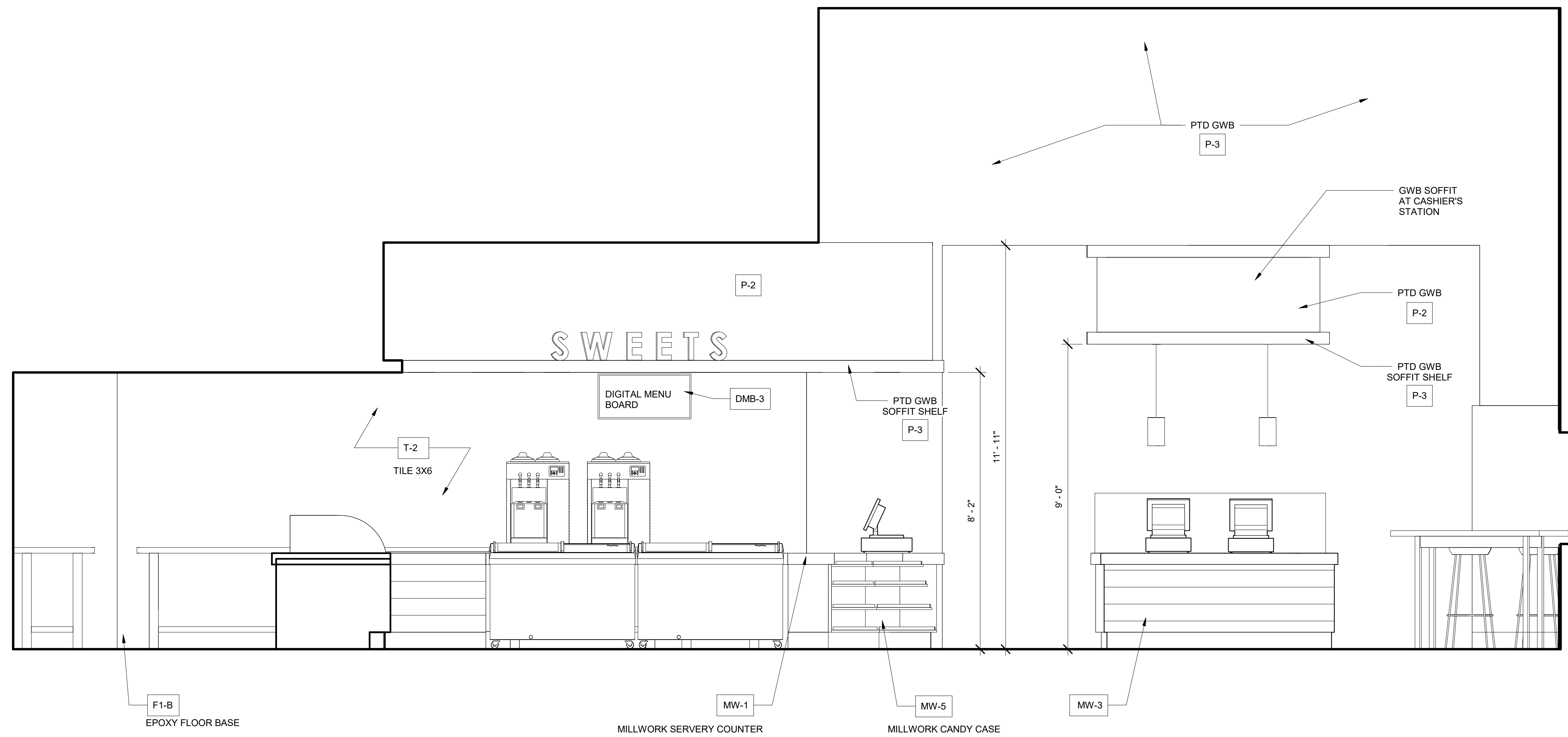
1 WALL SECTION AT BAMBOO (SOUTH FACADE)
 3/4" = 1'-0"

2 Section siding
 3/4" = 1'-0"

3 SECTION AT KITCHEN GRILL (WEST FACADE)
 3/4" = 1'-0"



② Elevation 1 - c
1/2" = 1'-0"



① Elevation 1 - a
1/2" = 1'-0"

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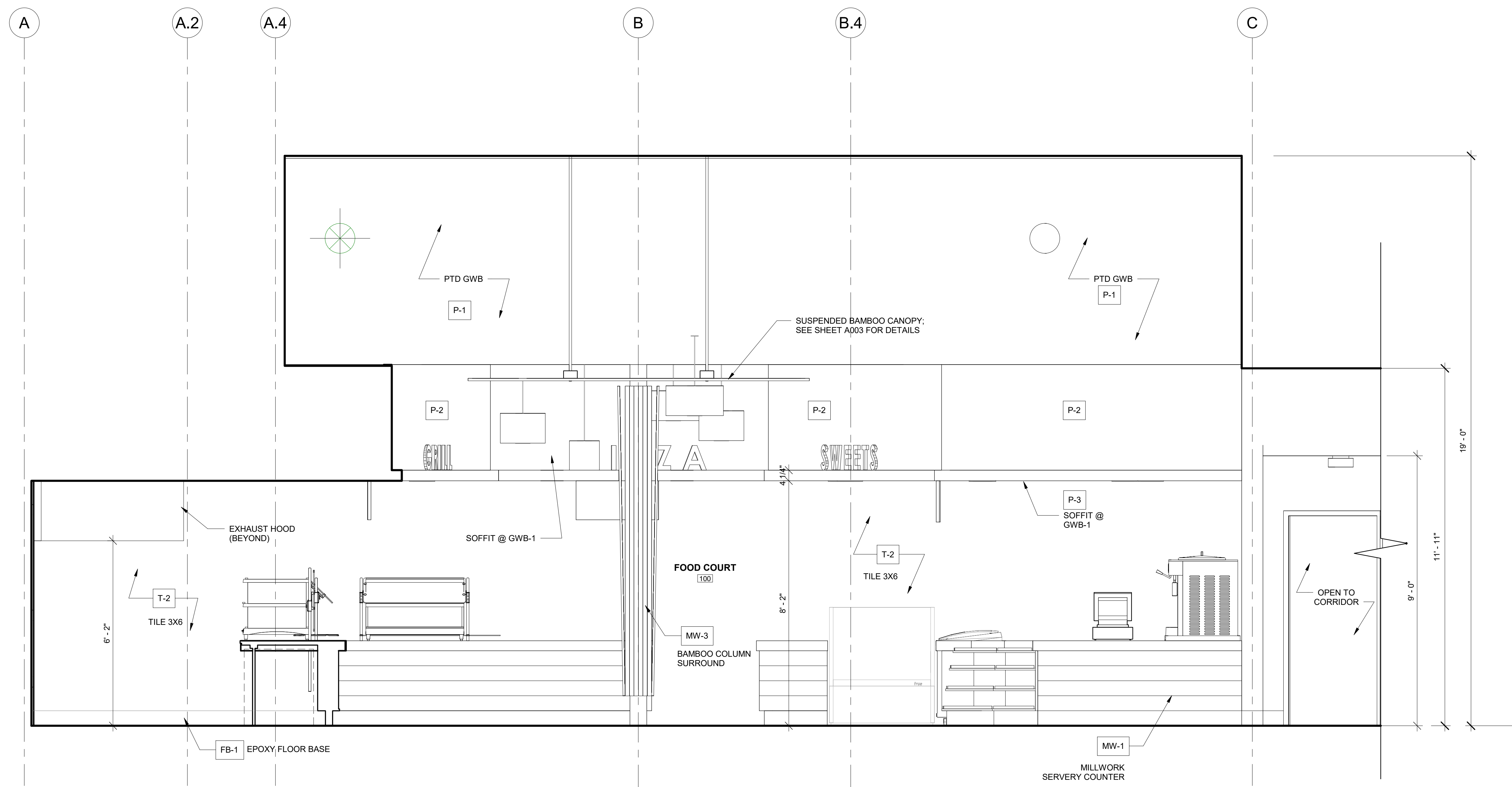
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 280 N. PROVIDENCE RD, SUITE 105
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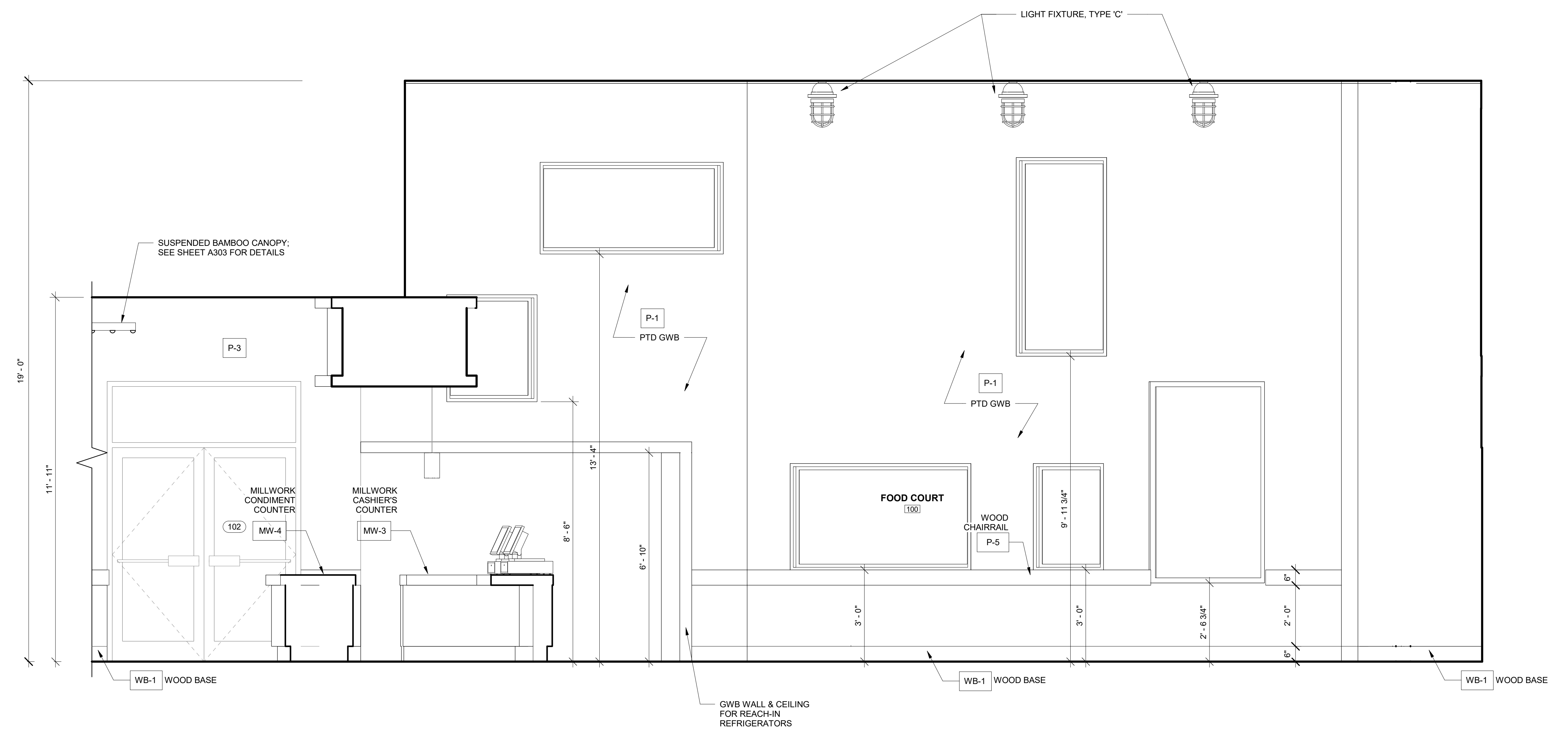
**CAPE MAY COUNTY ZOO SAFARI
 CAFE 2 NEW RETAIL FOOD BUILDING**
 707 ROUTE 9 NORTH, CAPE MAY COURT
 HOUSE, NJ 08210

TITLE:
INTERIOR ELEVATIONS
 DWG. NO. **A205**
 DRAWN BY: PG APPROVED BY: AT
 SCALE: 1/2" = 1'-0" JOB#: 1610-021

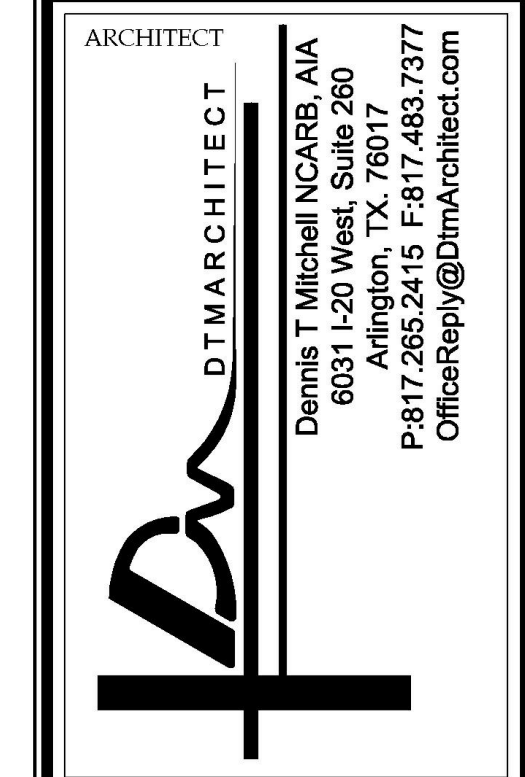
ISSUE FOR BID
08-06-19



② INTERIOR ELEVATION - FOOD COURT (NORTH)
1/2" = 1'-0"



① INTERIOR ELEVATION (SOUTH) - BEVERAGE COUNTER
1/2" = 1'-0"



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MULHERN CONSULTING ENGINEERS
321 SOUTH YORK ROAD
HATBORO, PA 19040

STRUCTURAL ENGINEER:
CKS STRUCTURES, INC.
280 N. PROVIDENCE RD, SUITE 105
MEDIA, PA 19063

TITLE:
**CAPE MAY COUNTY ZOO SAFARI
CAFE 2 NEW RETAIL FOOD BUILDING**
DWG. NO. **A206**
707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210

APPROVED BY: AT
DRAWN (Author)
SCALE: 1/2" = 1'-0"
JOB#: 1610-021

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08-06-19

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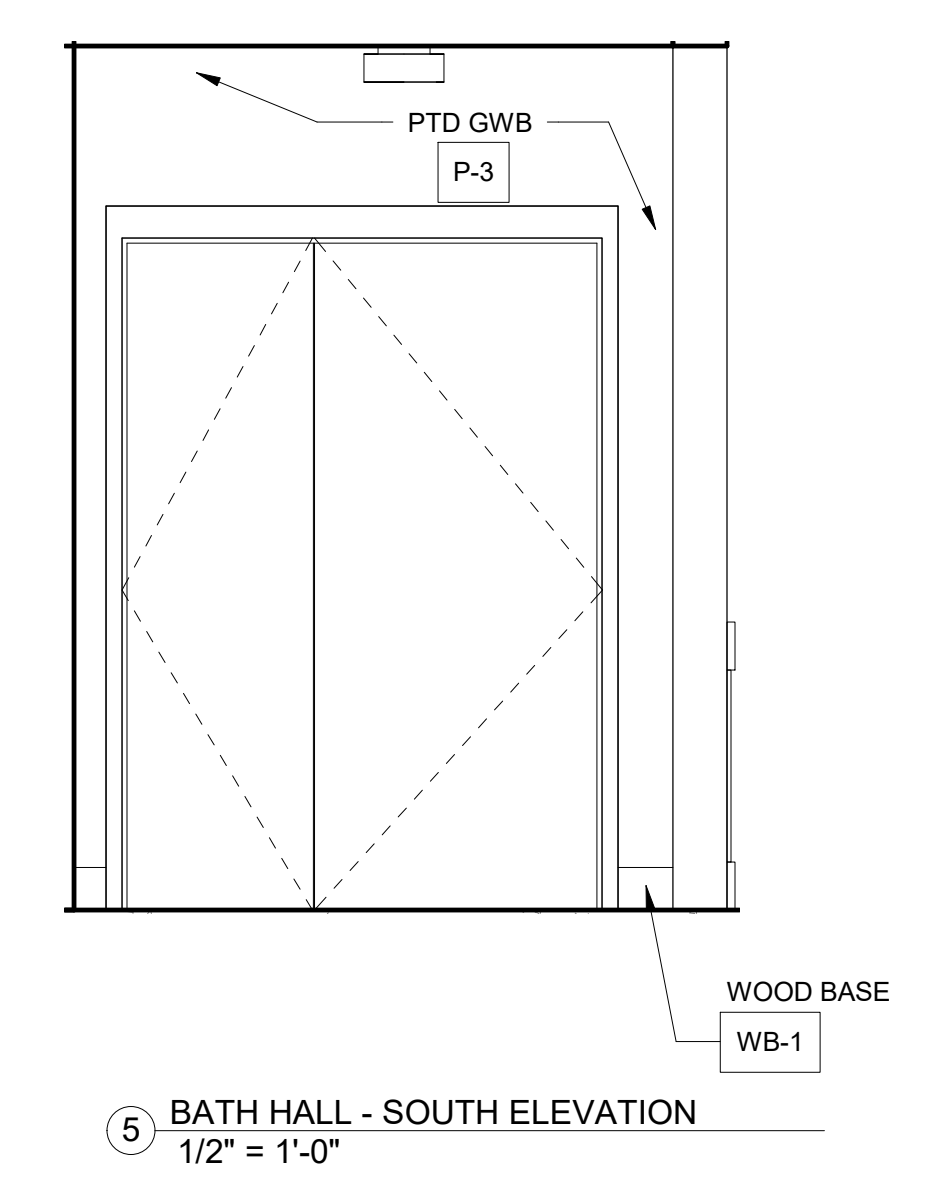
ENGINEER:
MULHERN CONSULTING ENGINEERS
 321 SOUTH YORK ROAD
 HATBORO, PA 19040

STRUCTURAL ENGINEER:
CKS STRUCTURES, INC.
 280 N. PROVIDENCE RD, SUITE 105
 MEDIA, PA 19063

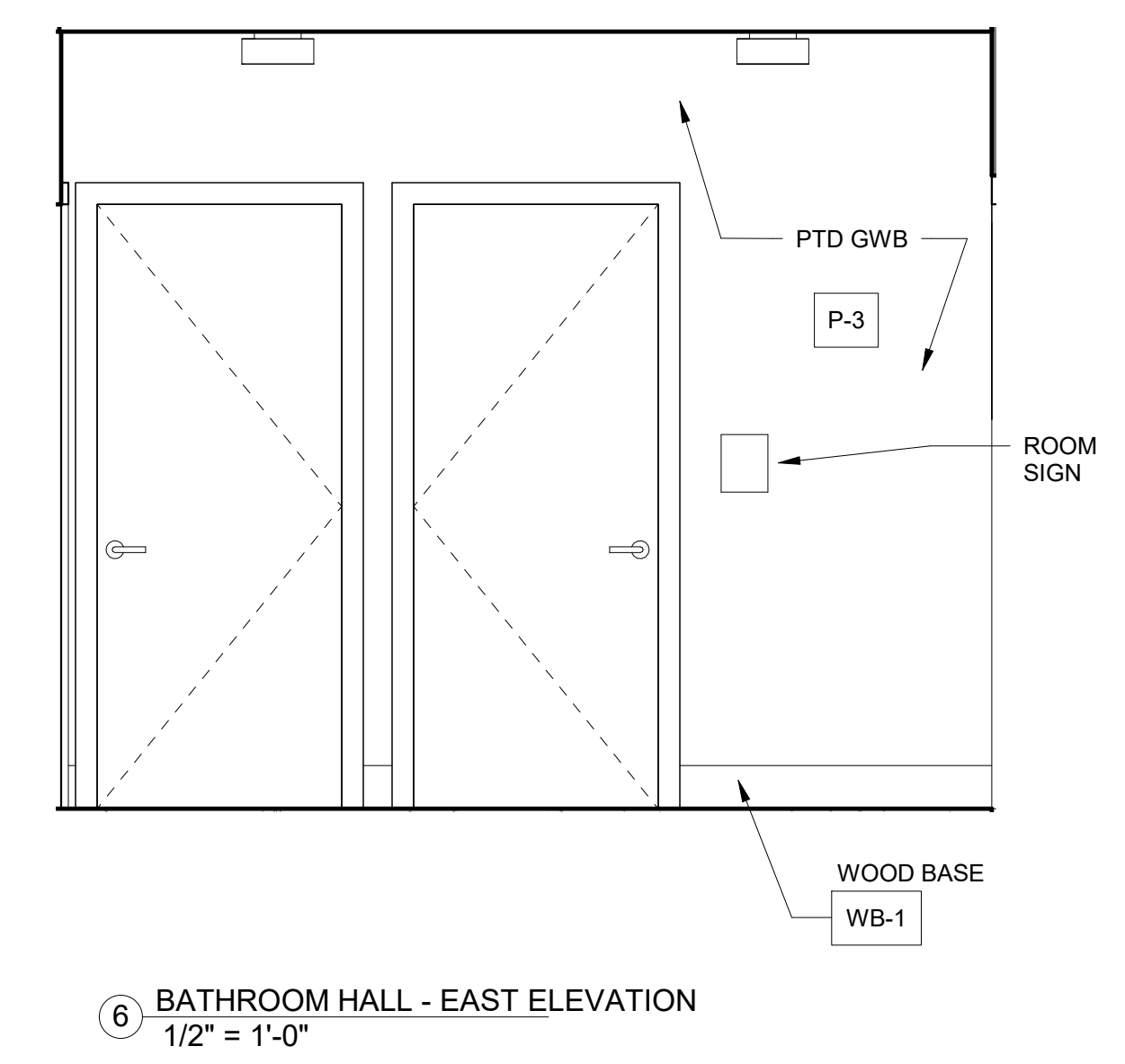
**CAPE MAY COUNTY ZOO SAFARI
 CAFE 2 NEW RETAIL FOOD BUILDING**
 707 ROUTE 9 NORTH, CAPE MAY COURT
 HOUSE, NJ 08210

TITLE:
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 DWG. NO. **A207**
 DRAWN BY: PG APPROVED BY: AT
 SCALE: 1/2" = 1'-0" JOB#: 1610-021

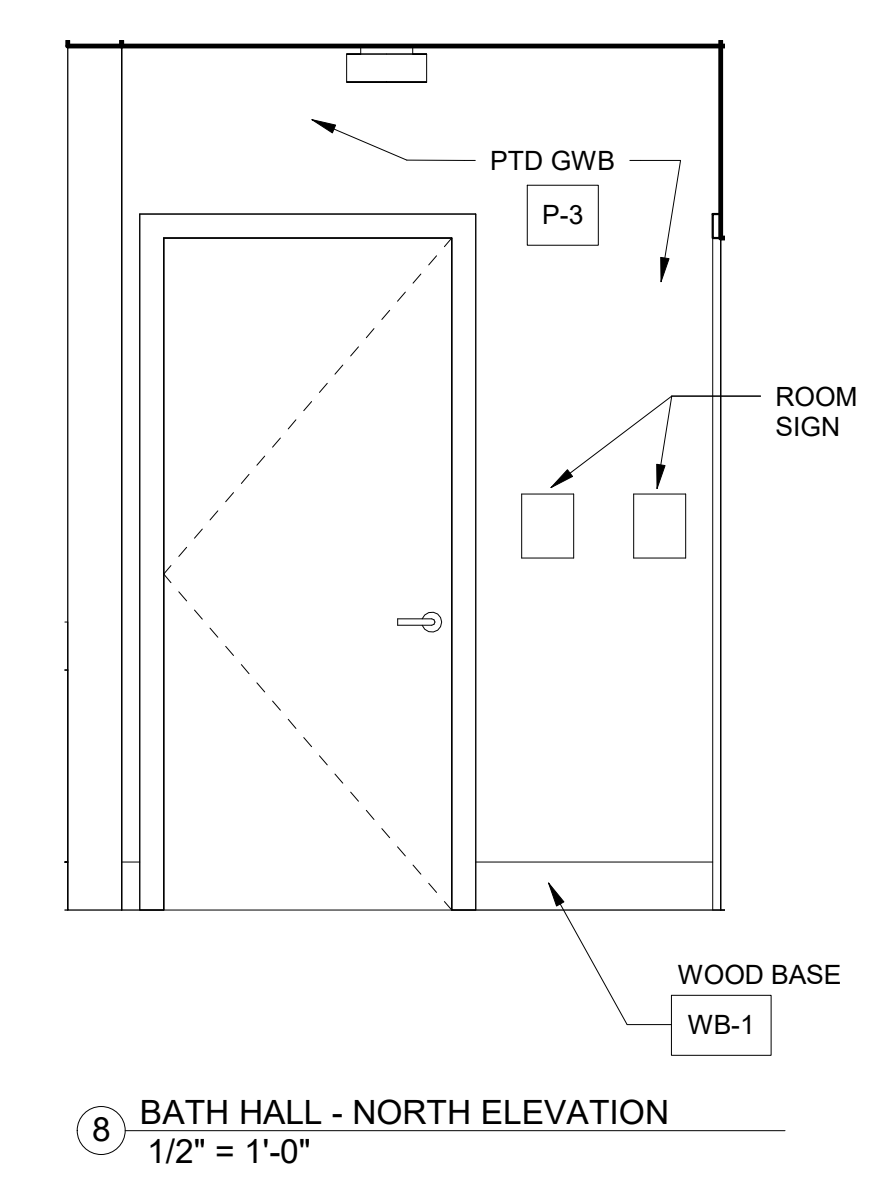
**ISSUE FOR BID
 08-06-19**



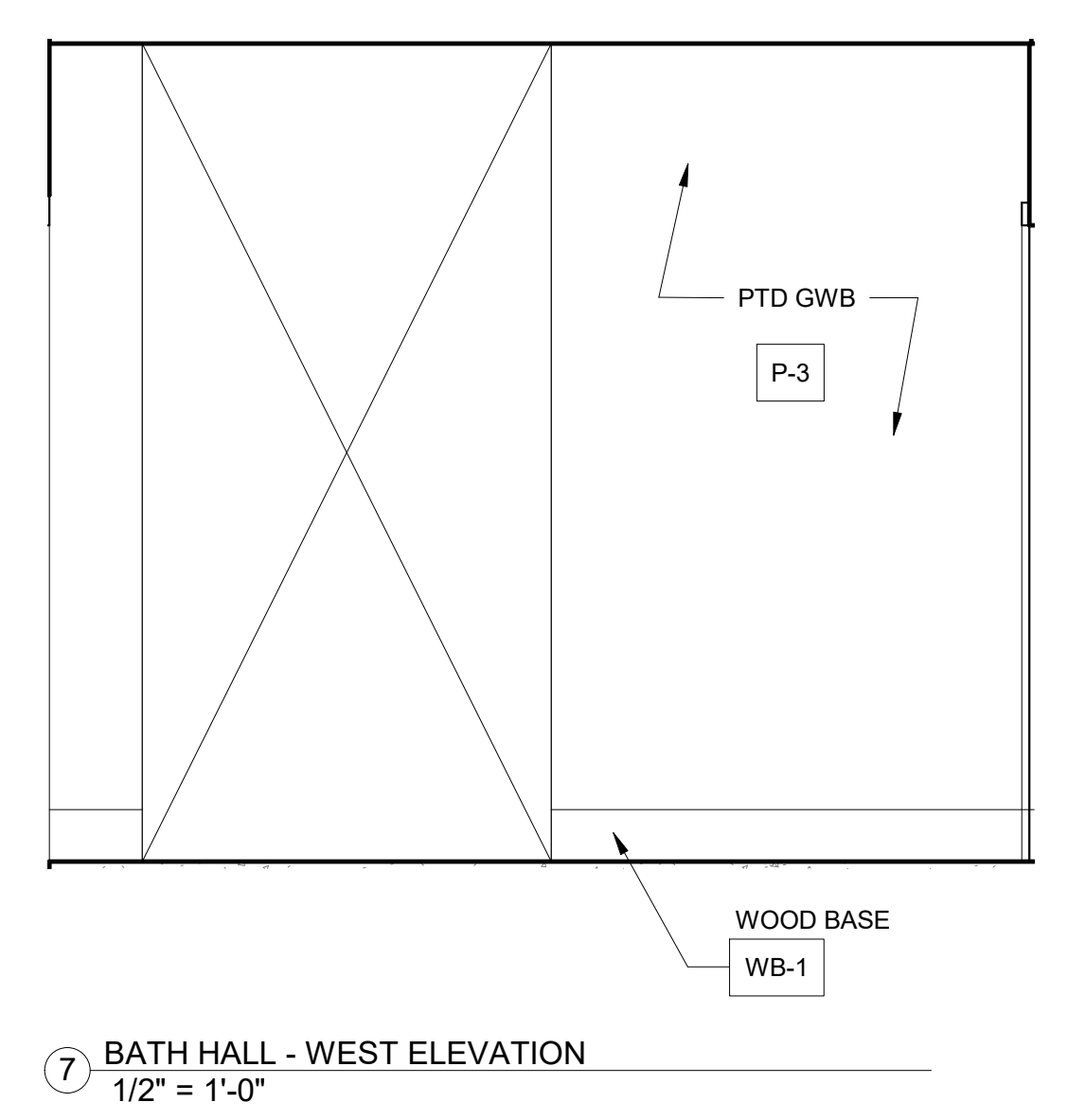
⑤ BATH HALL - SOUTH ELEVATION
 1/2" = 1'-0"



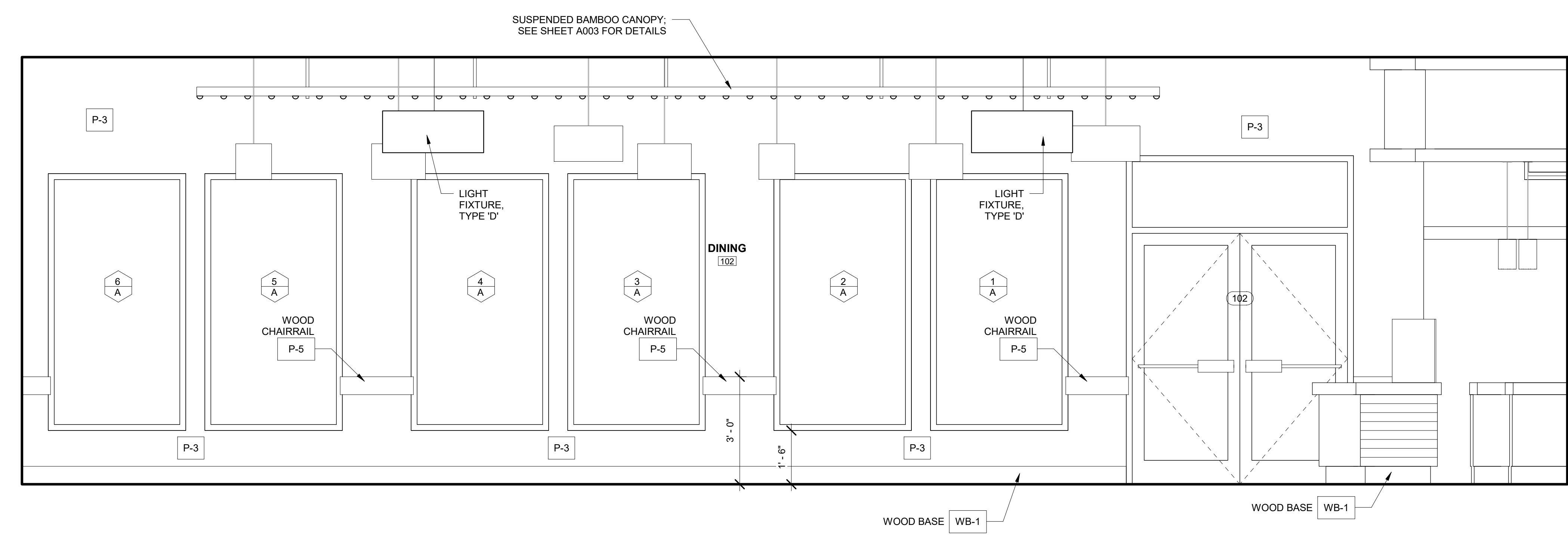
⑥ BATHROOM HALL - EAST ELEVATION
 1/2" = 1'-0"



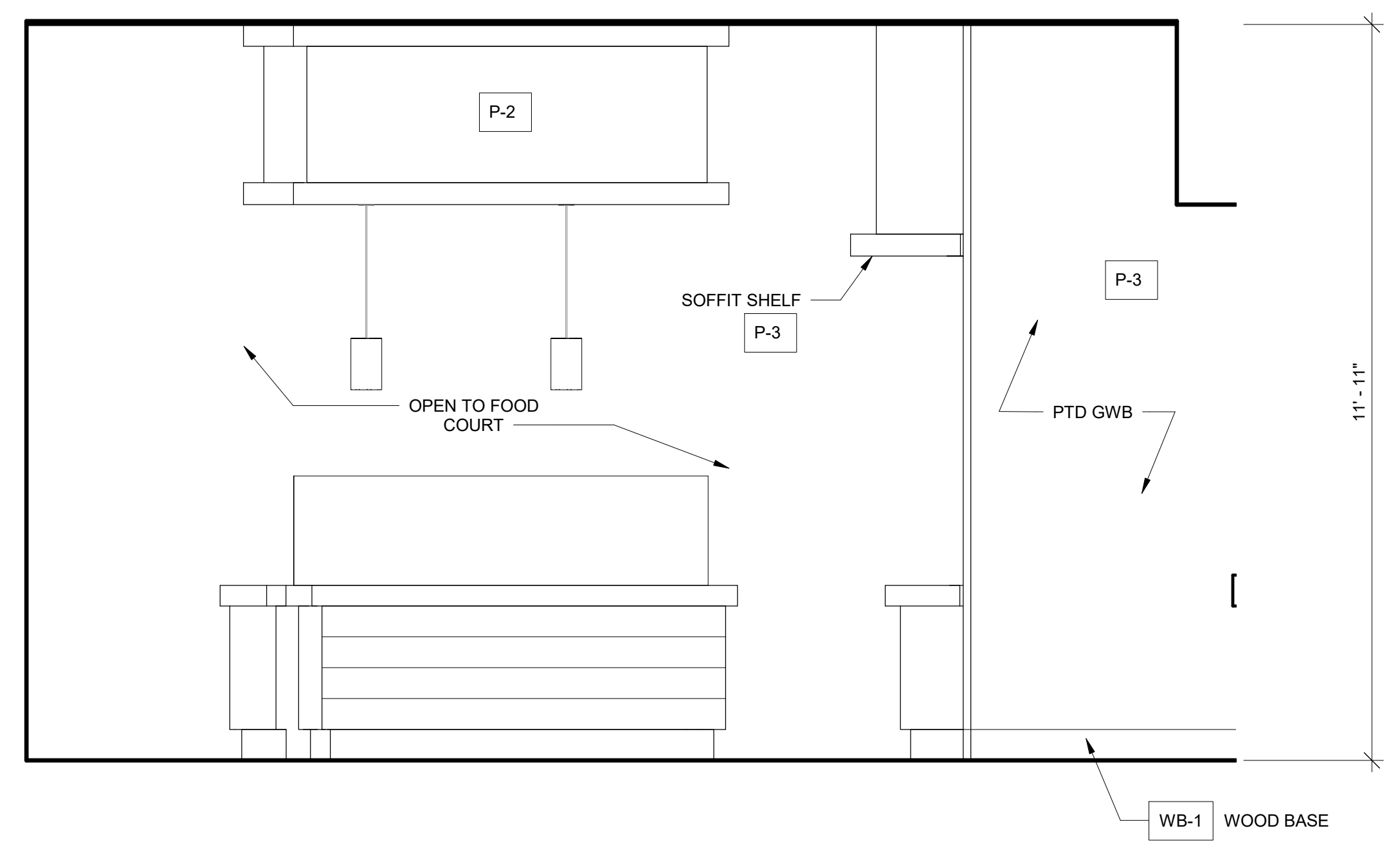
⑧ BATH HALL - NORTH ELEVATION
 1/2" = 1'-0"



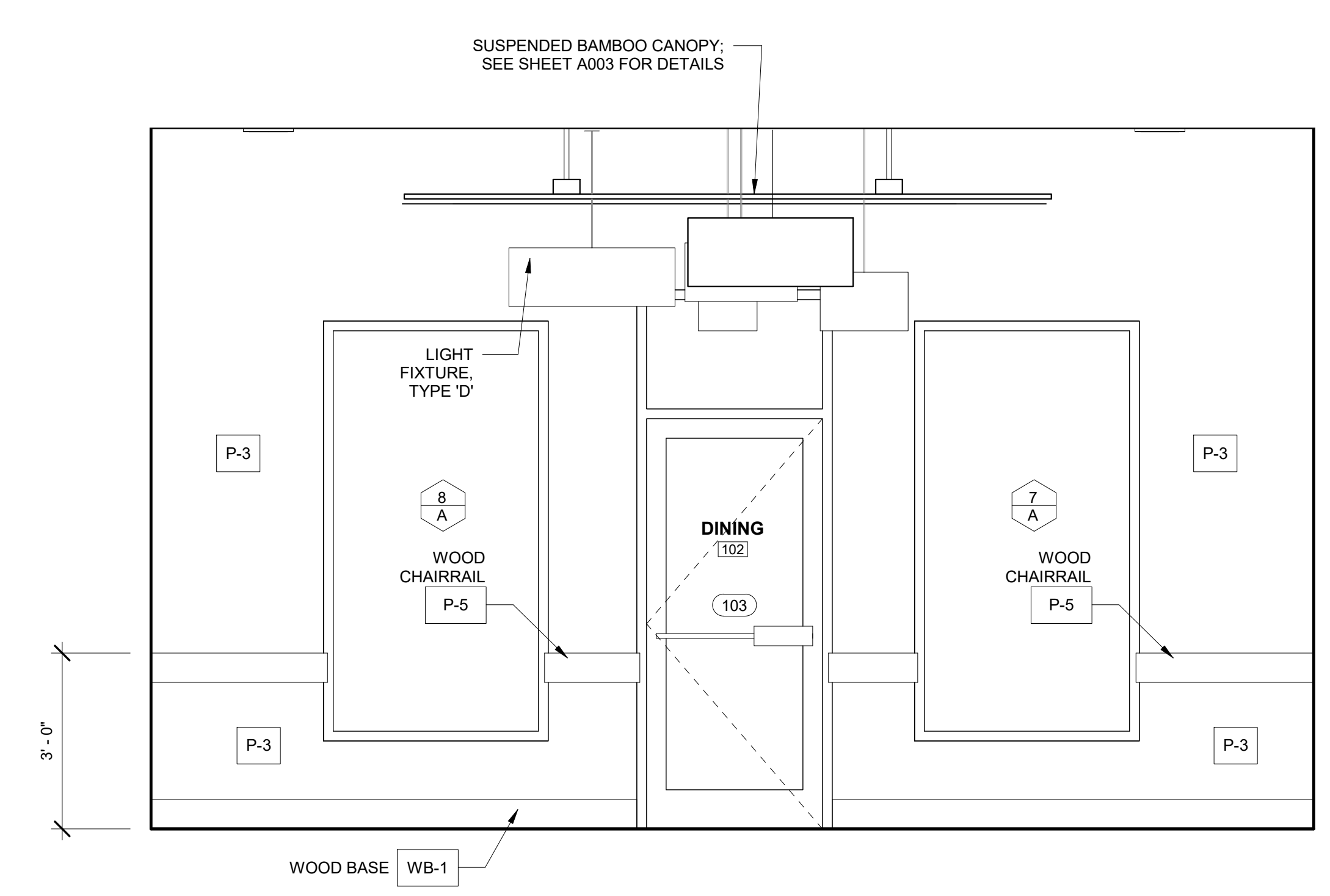
⑦ BATH HALL - WEST ELEVATION
 1/2" = 1'-0"



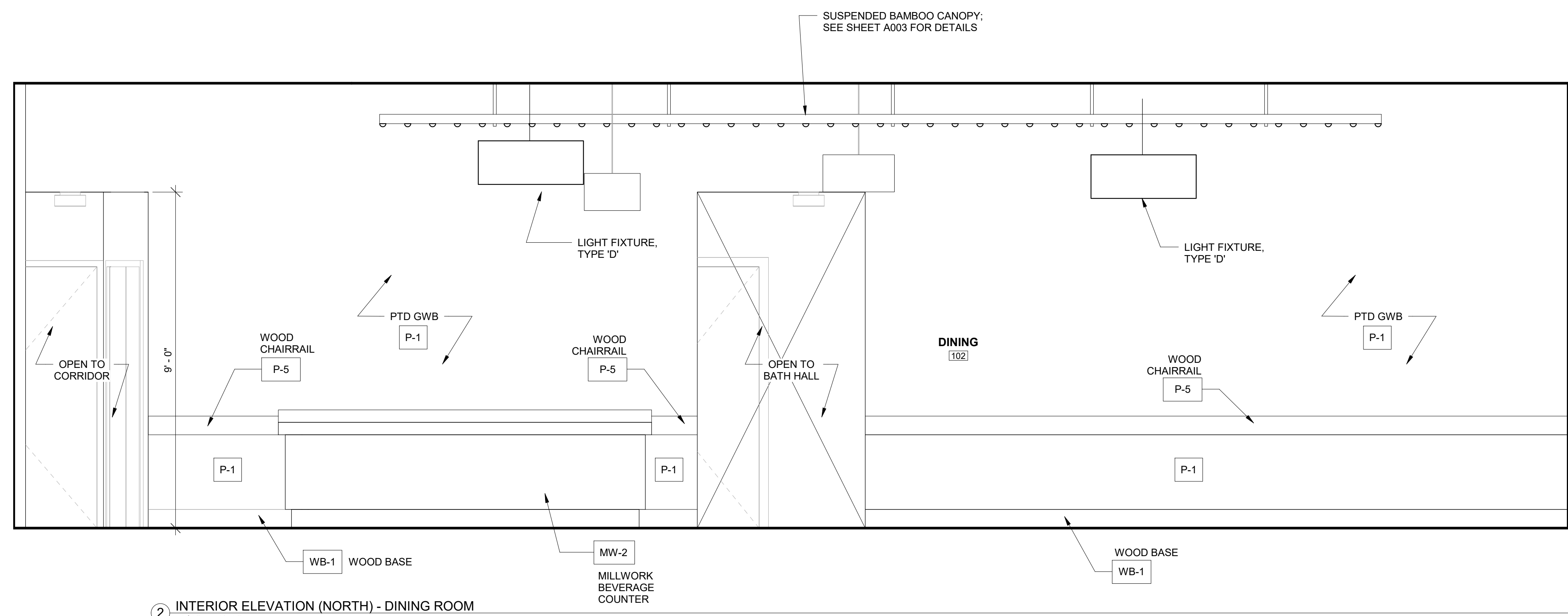
③ INTERIOR ELEVATION (SOUTH) - DINING ROOM
 1/2" = 1'-0"



④ INTERIOR ELEVATION (WEST) - DINING ROOM/CORRIDOR
 1/2" = 1'-0"



① INTERIOR ELEVATION (EAST) - DINING ROOM
 1/2" = 1'-0"



② INTERIOR ELEVATION (NORTH) - DINING ROOM
 1/2" = 1'-0"

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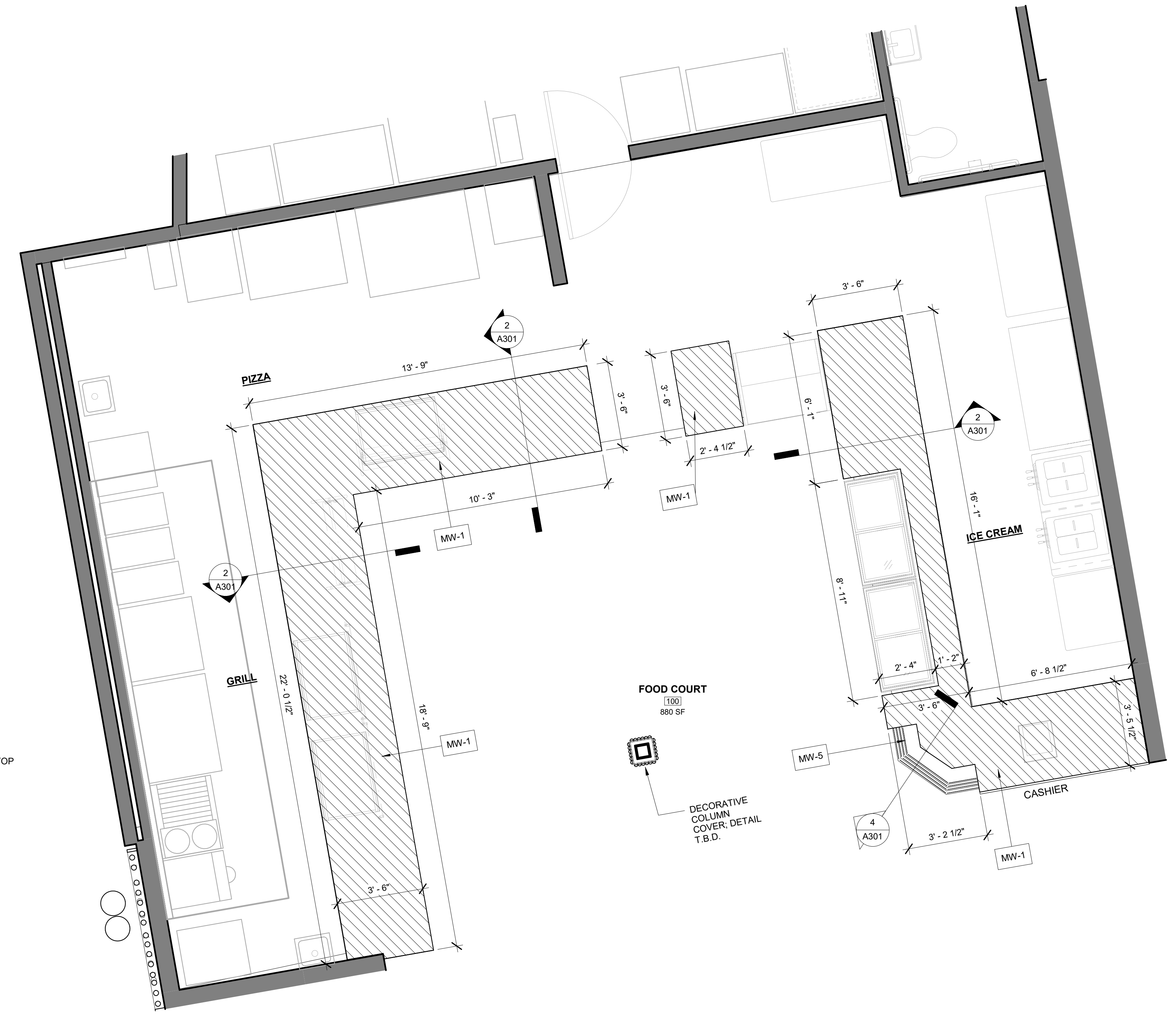
STRUCTURAL ENGINEER:
CKS STRUCTURES, INC.
 280 N. PROVIDENCE RD, SUITE 105
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**CAPE MAY COUNTY ZOO SAFARI
 CAFE 2 NEW RETAIL FOOD BUILDING**
 707 ROUTE 9 NORTH, CAPE MAY COURT
 HOUSE, NJ 08210

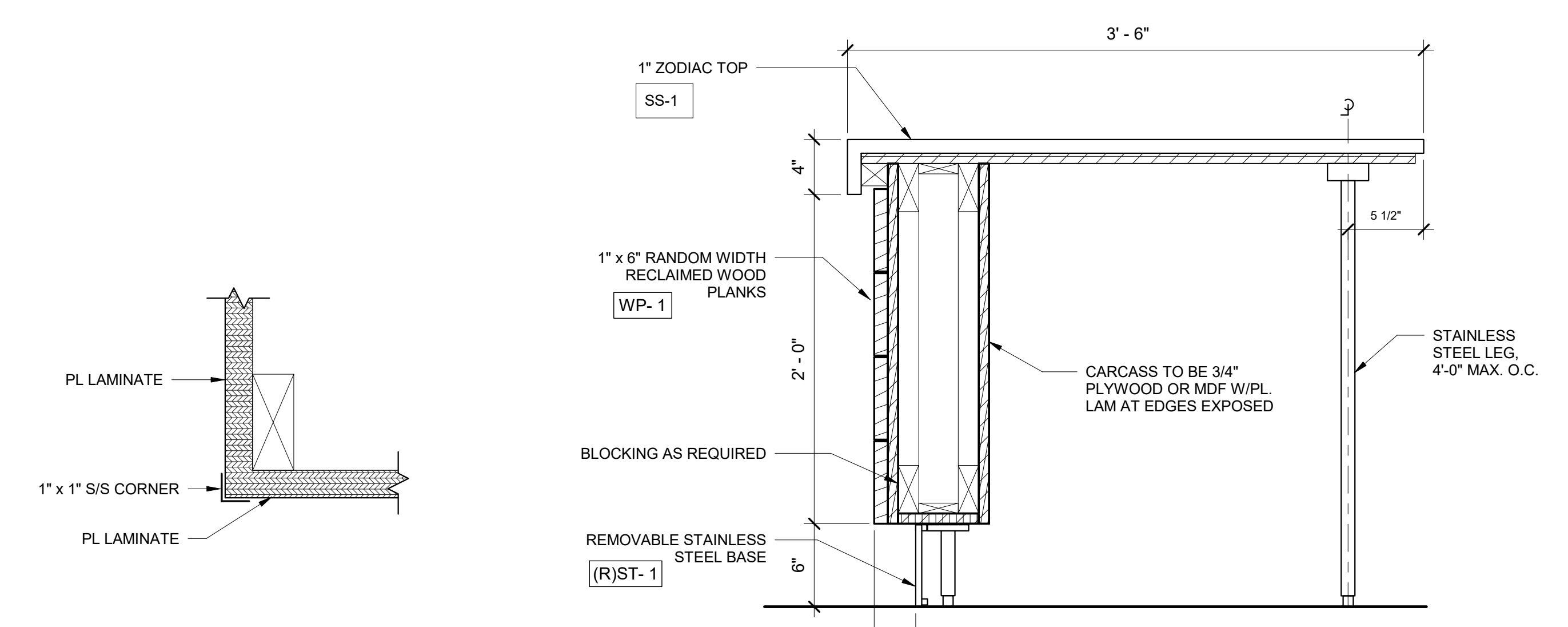
TITLE:
MILLWORK DETAILS
 DWG. NO.
A301

APPROVED BY: AT
 16/10/021
 DRAWN BY: PG
 SCALAS indicated

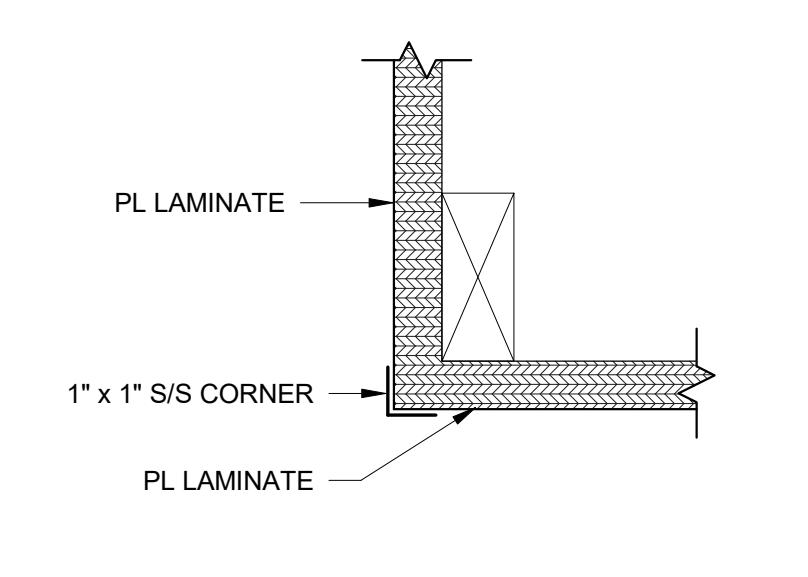
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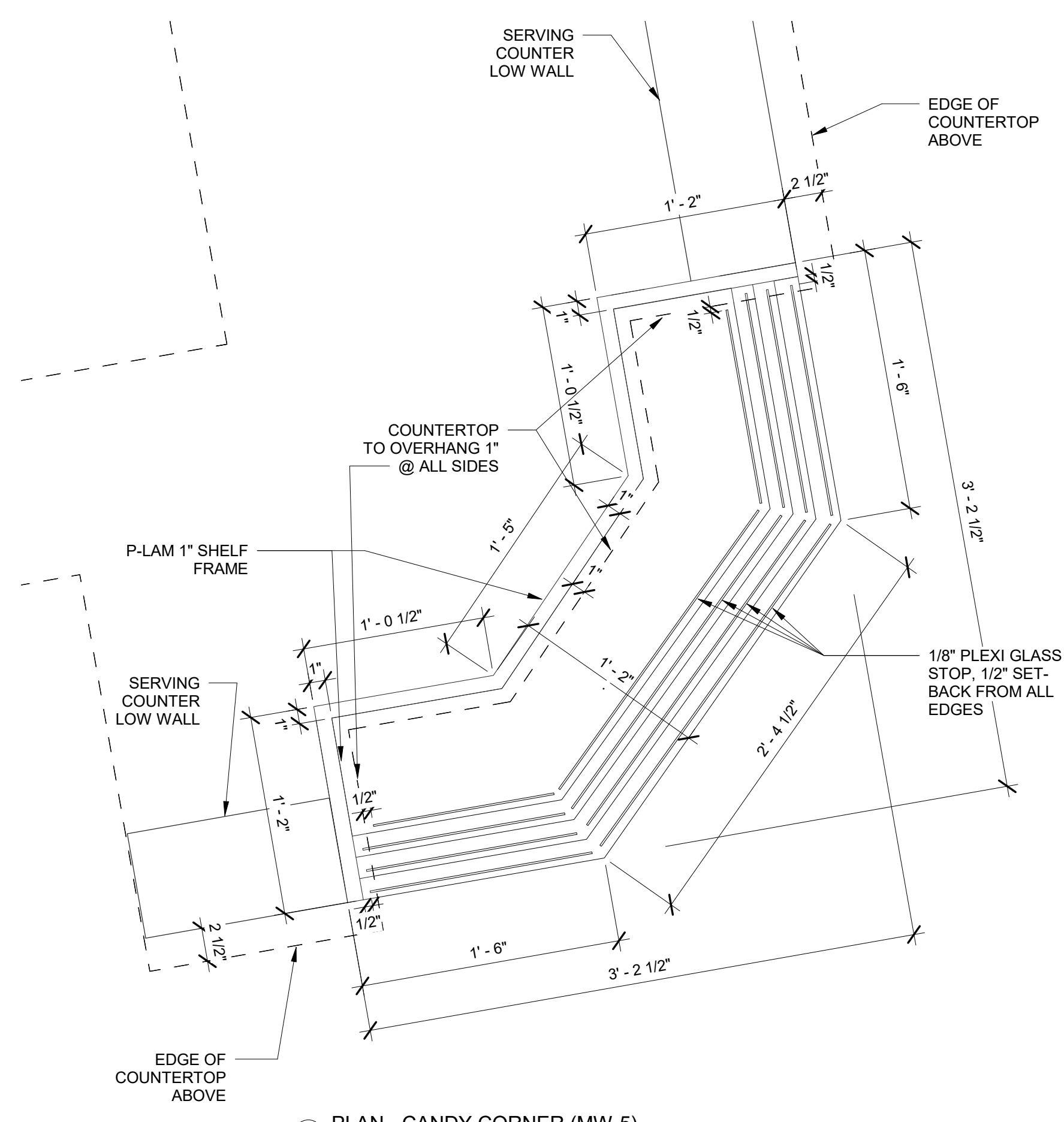
1 ENLARGED PLAN - MILLWORK FOR SERVERY
 3/8" = 1'-0"



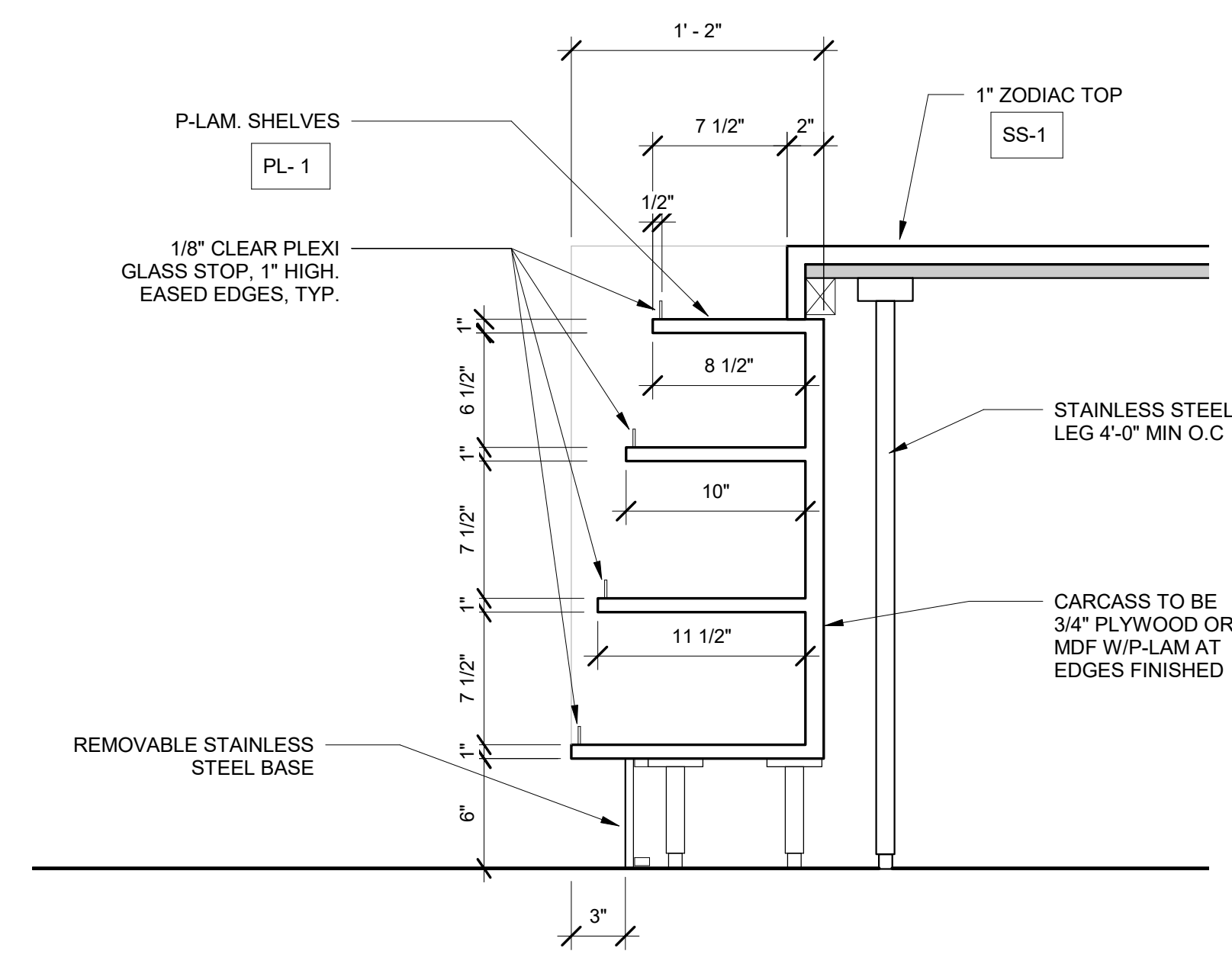
2 DETAIL OF TYPICAL SERVING COUNTER (MW-1)
 1 1/2" = 1'-0"



3 DETAIL OF TYPICAL COUNTER CORNER
 3" = 1'-0"



5 PLAN - CANDY CORNER (MW-5)



4 SECTION @ CORNER CANDY SHELVES (MW-5)
 1 1/2" = 1'-0"

FINISHES LIST - MILLWORK				
DESIGN ID	ITEM	DESCRIPTION	COLOR	COMMENTS
PL-1	PLASTIC LAMINATE	MANUF: WILSONART	WHITE XX	
WP-1	RECLAIMED WD PLANKS	RECLAIMED OAK 1"X8" RANDOM LENGTH		
SS-1	SOLID SURFACE	MANUF: DUPONT STYLE: ZODIAQ	CLOUD WHITE	

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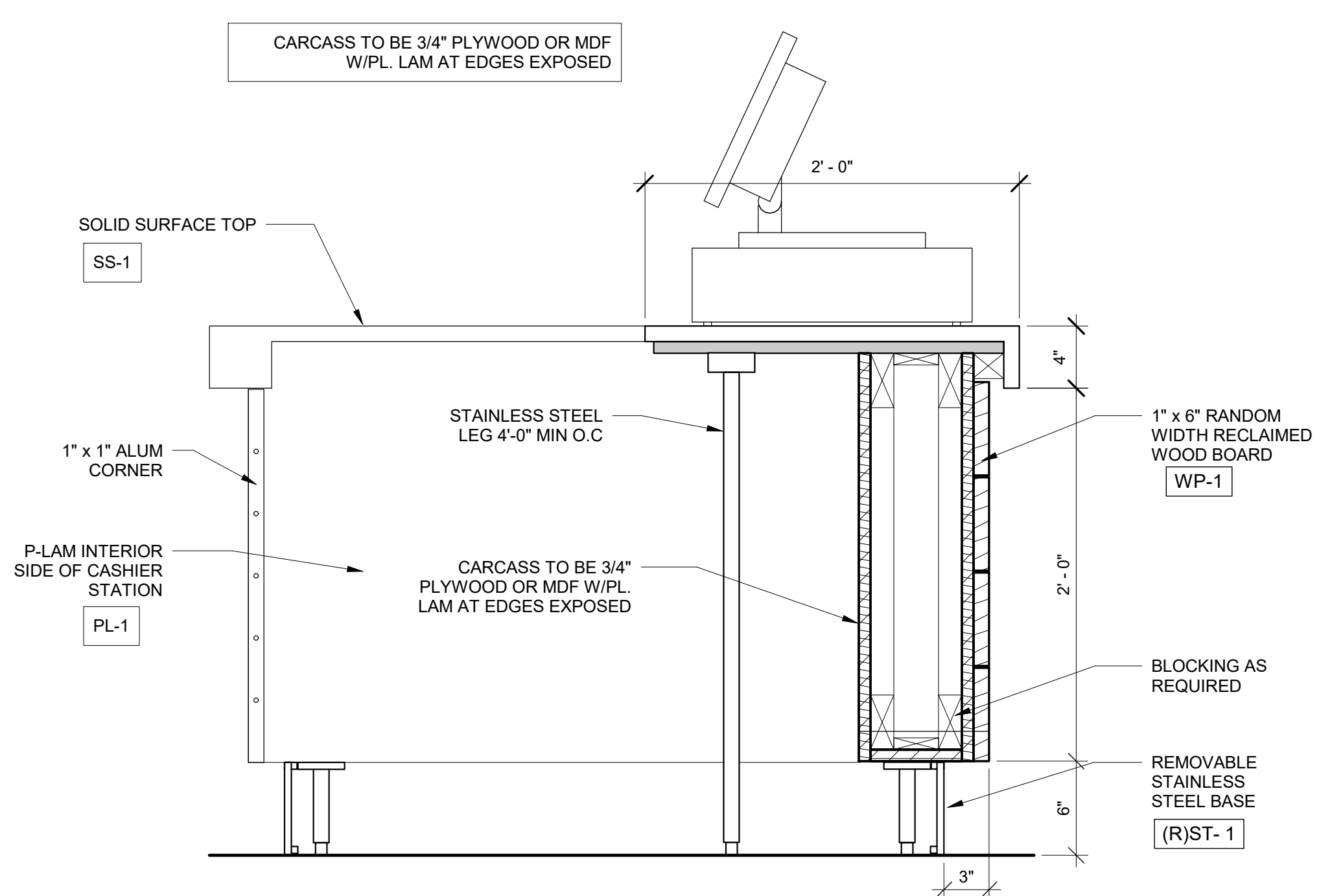
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 HATBORO, PA 19040

CKS STRUCTURES, INC.
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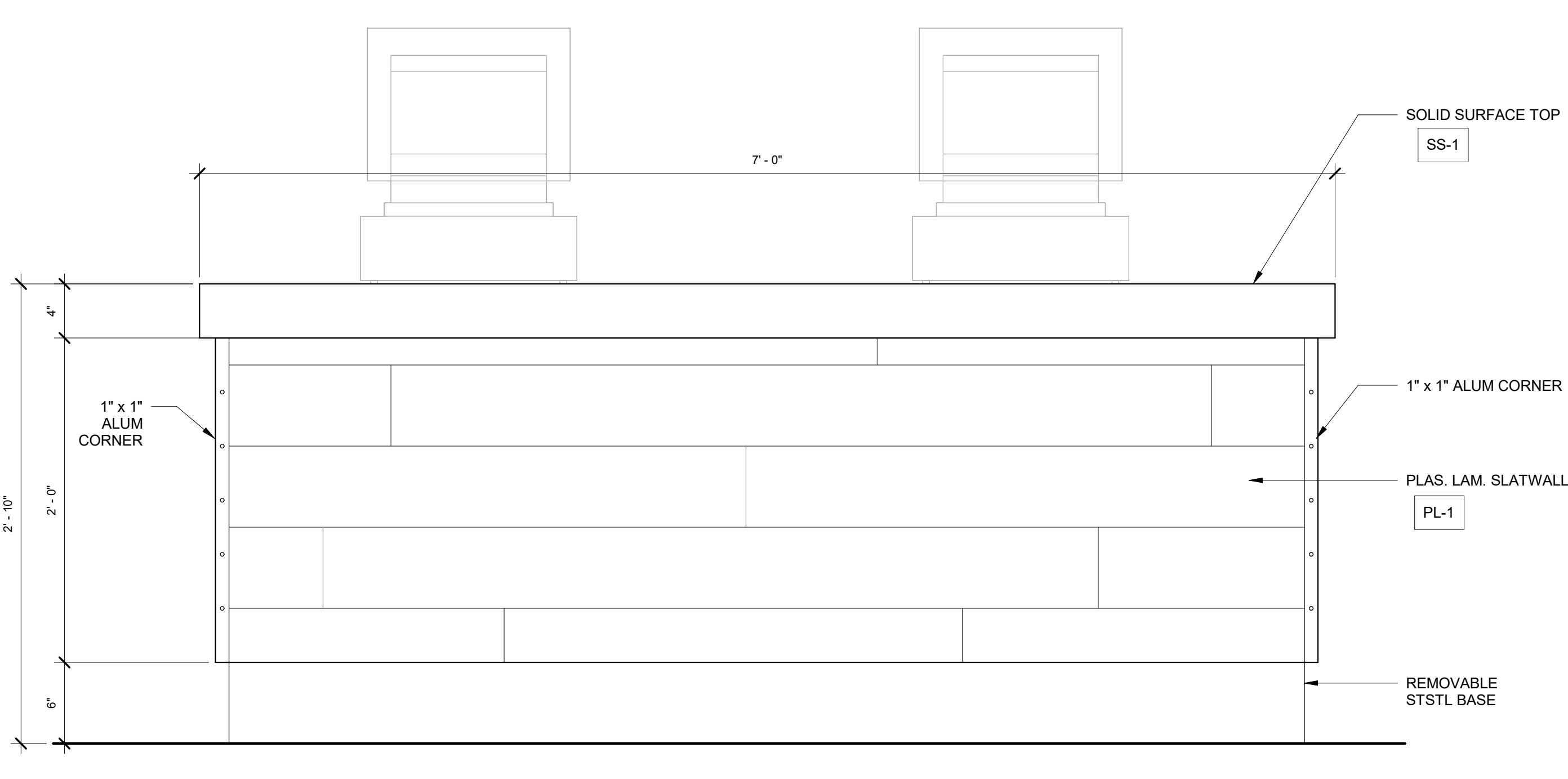
**CAPE MAY COUNTY ZOO SAFARI
 CAFE 2 NEW RETAIL FOOD BUILDING**
 707 ROUTE 9 NORTH, CAPE MAY COURT
 HOUSE, NJ 08210

TITLE:
MILLWORK DETAILS
 DWG. NO. **A301.1**
 APPROVED BY: AT
 DRAWN (Author)
 SCALAS indicated JOB#: 1610-021

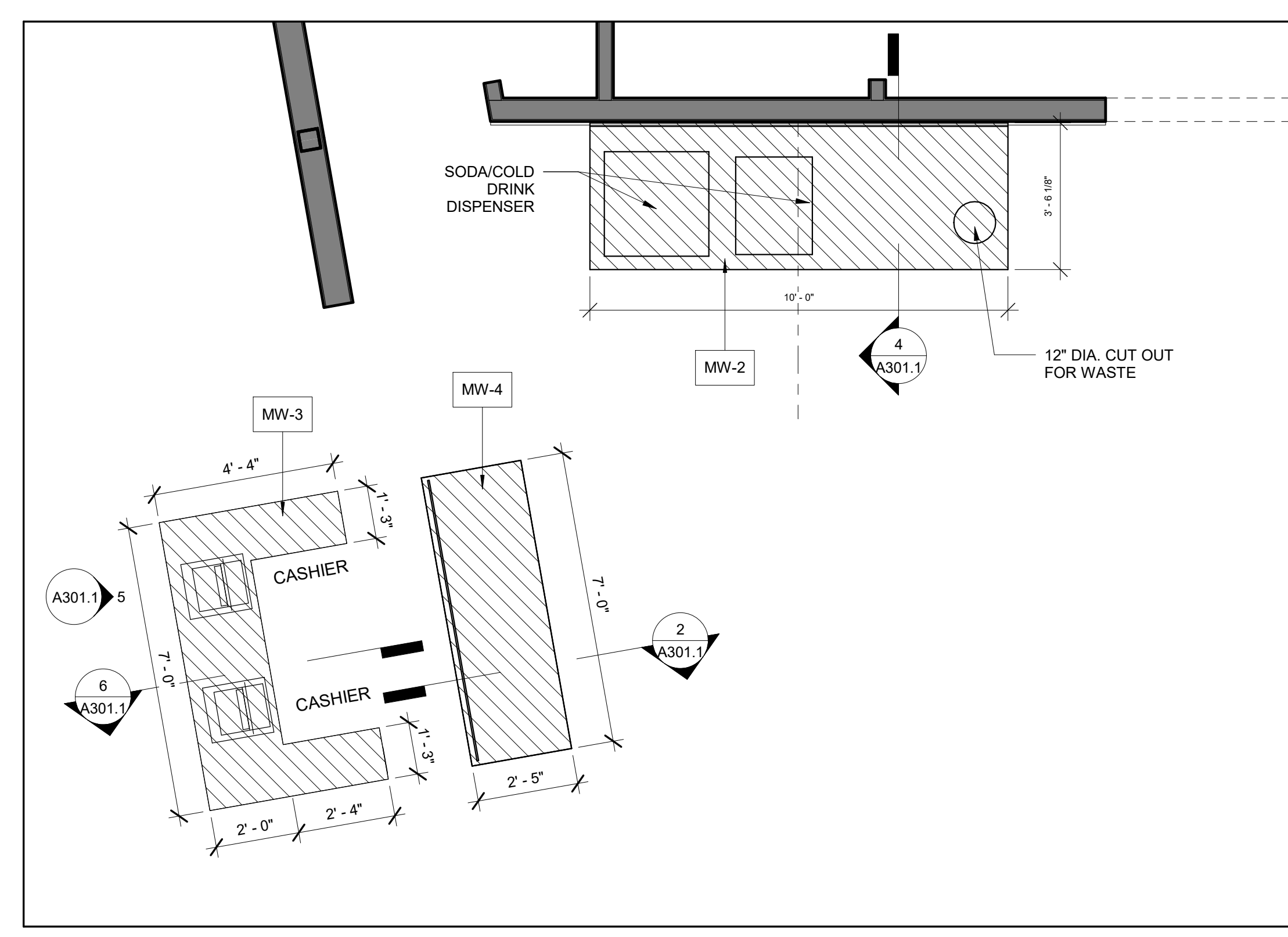
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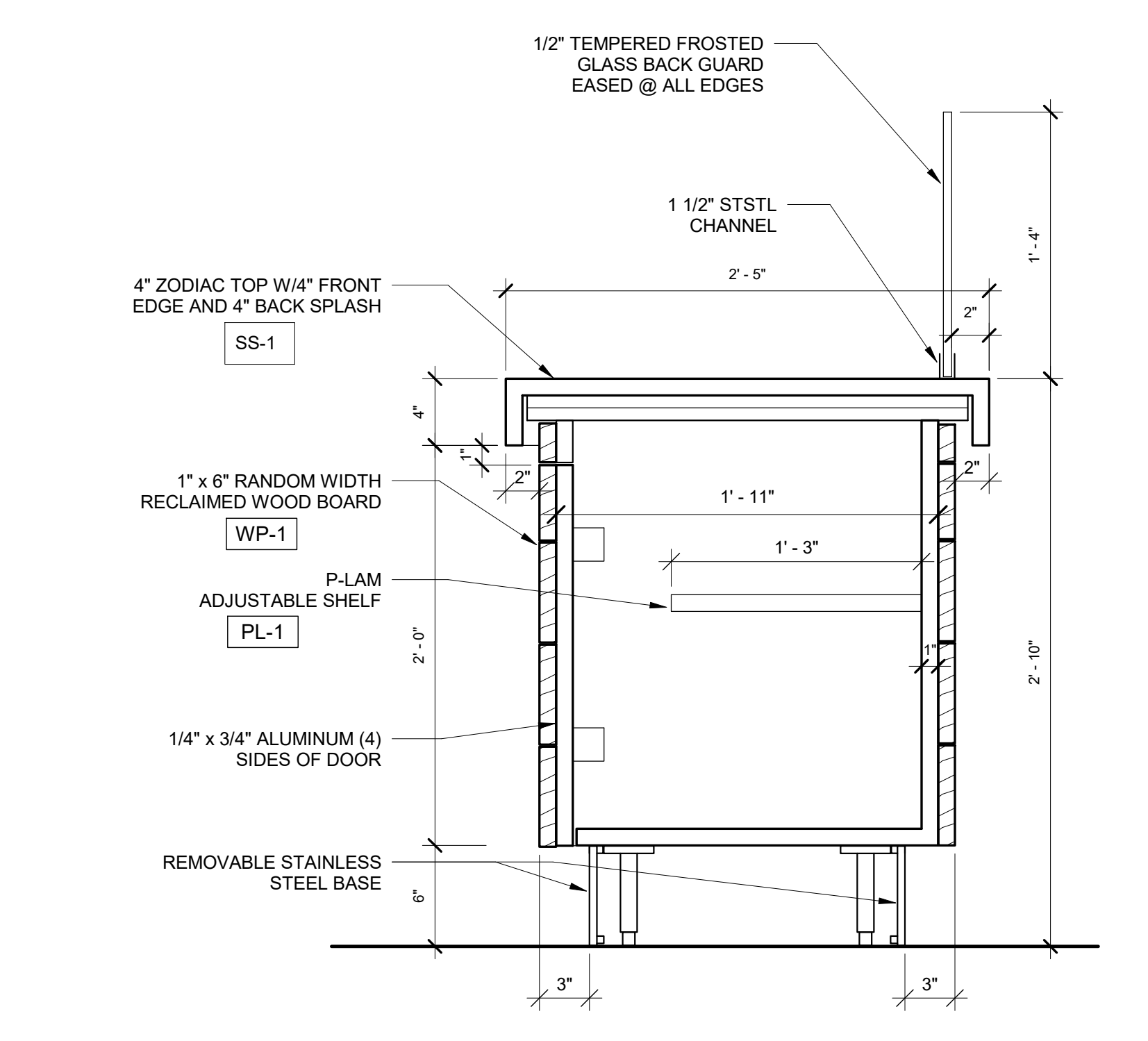
6 DETAIL AT CASH WRAP (MW-3)
 1 1/2" = 1'-0"



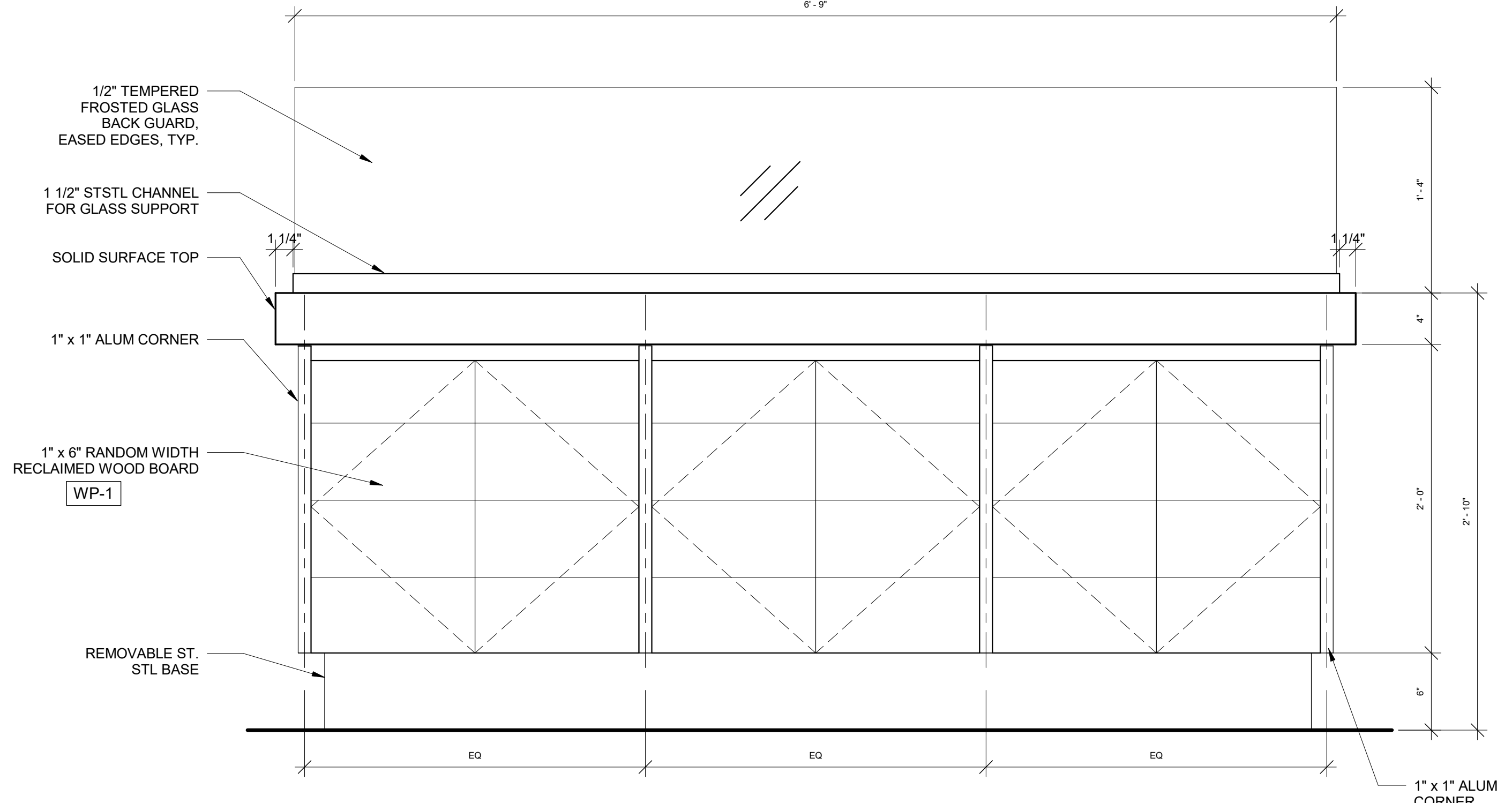
5 ELEVATION - FRONT OF CASH WRAP
 1 1/2" = 1'-0"



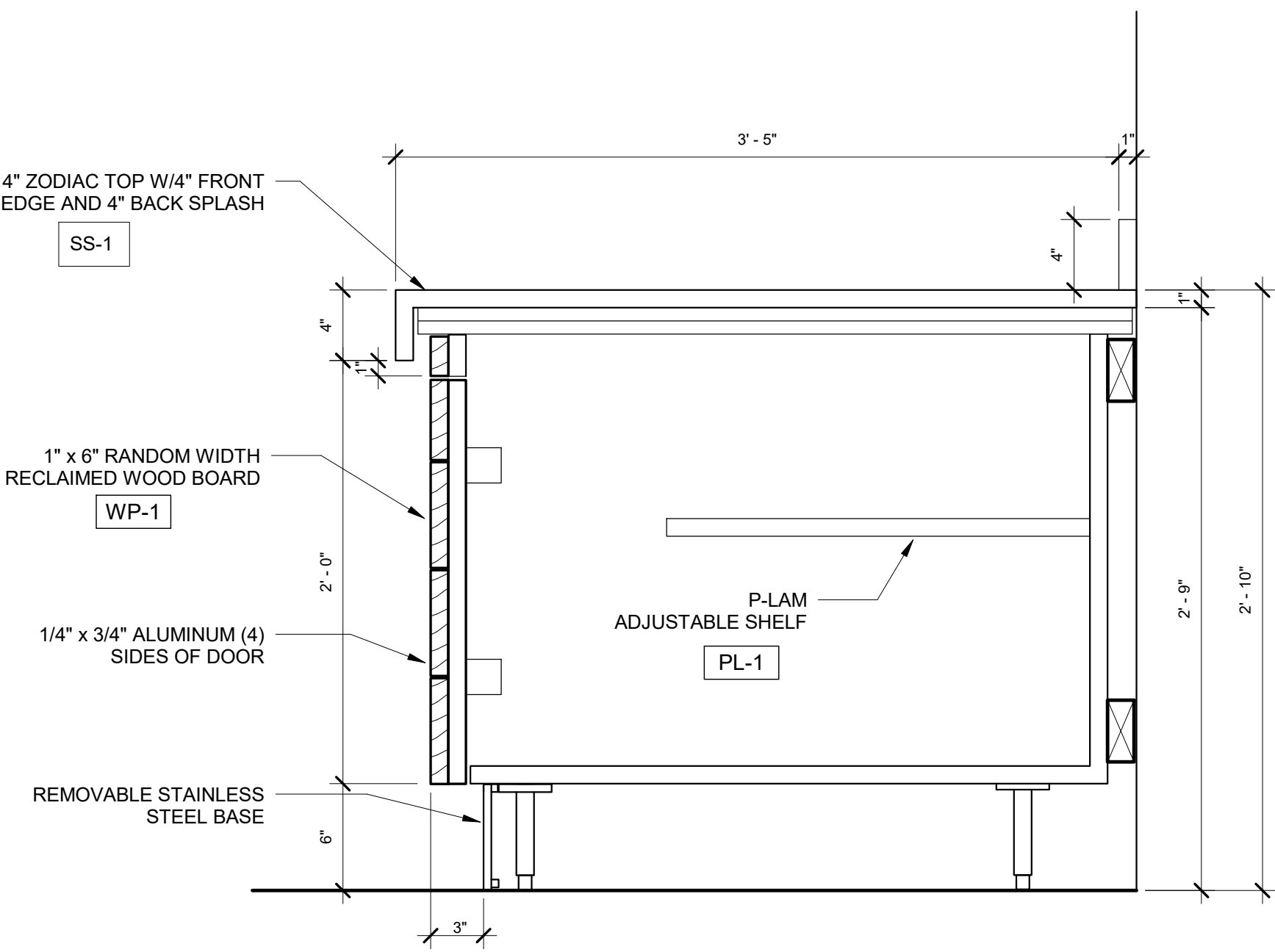
1 ENLARGED PLAN - CASH WRAP/CONDIMENT STATION
 3/8" = 1'-0"



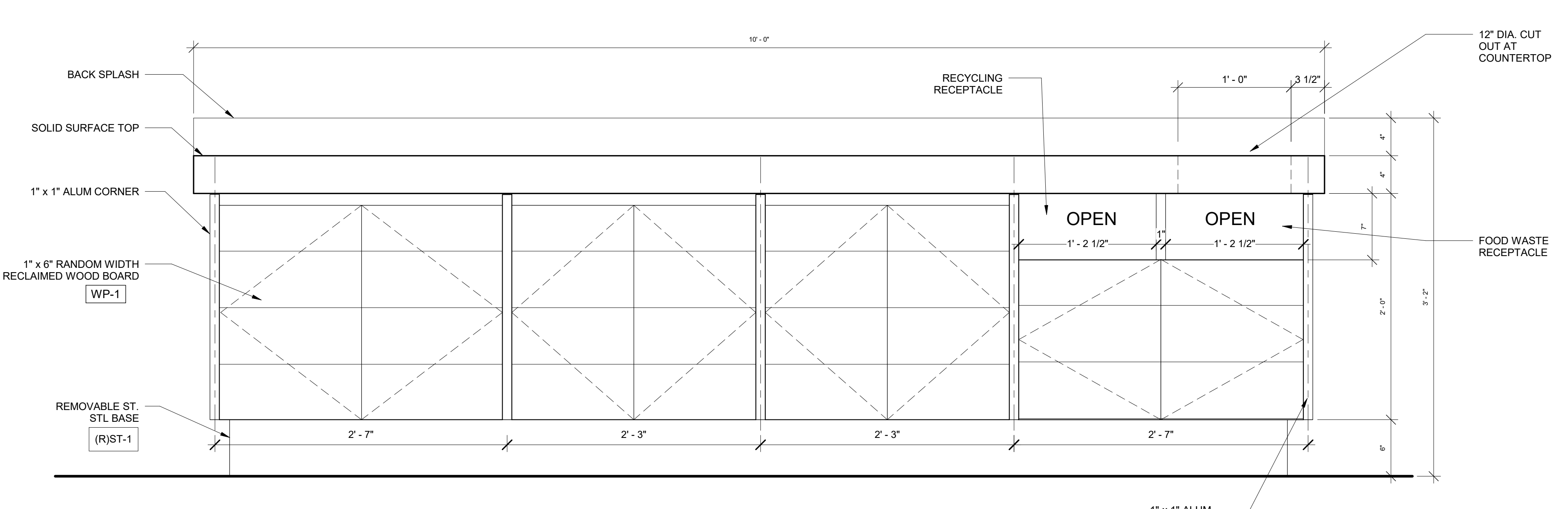
2 DETAIL OF CONDIMENT STATION (MW-4)
 1 1/2" = 1'-0"



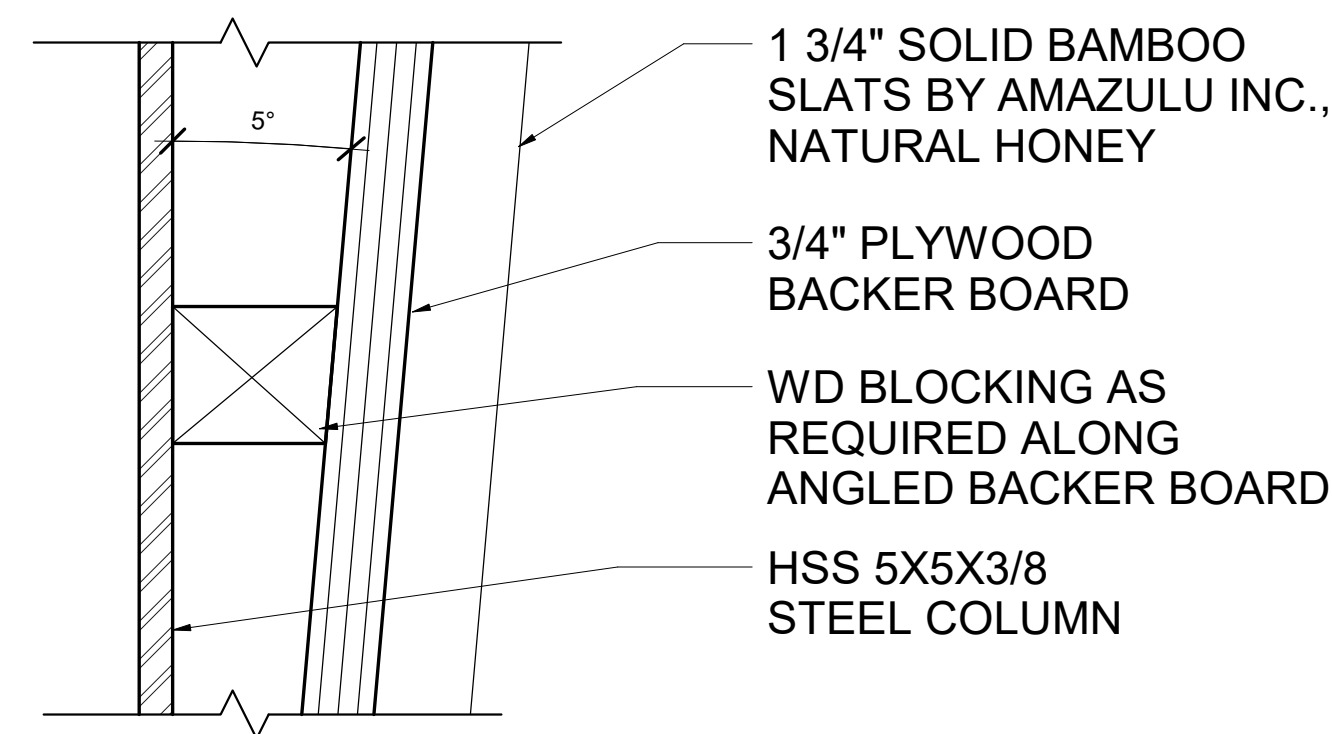
3 ELEVATION - CONDIMENT STATION (MW-4)
 1 1/2" = 1'-0"



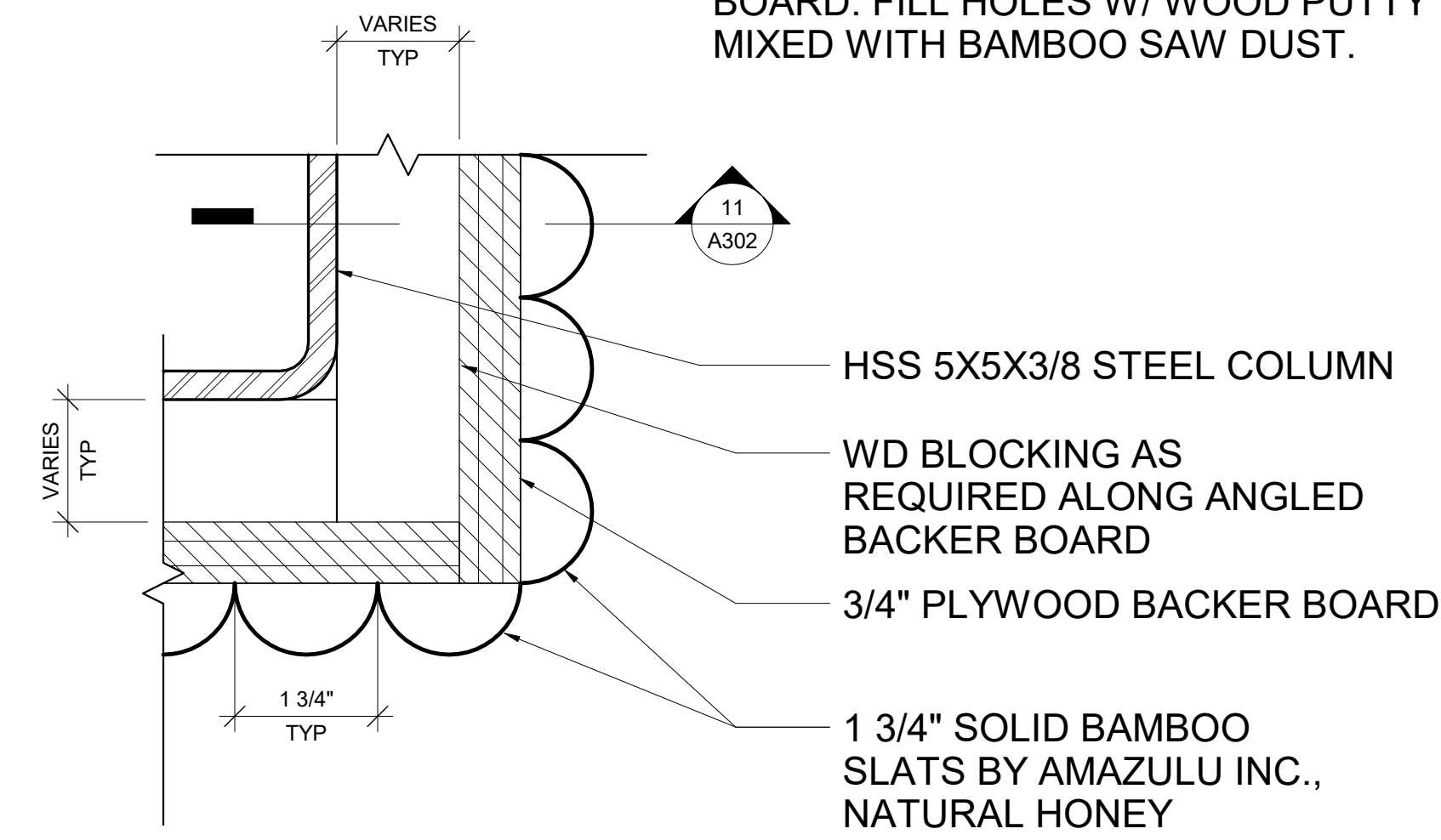
4 DETAIL OF TYPICAL COUNTER AT BEVERAGES (MW-2)
 1 1/2" = 1'-0"



7 ELEVATION - BEVERAGE STATION (MW-2)
 1 1/2" = 1'-0"

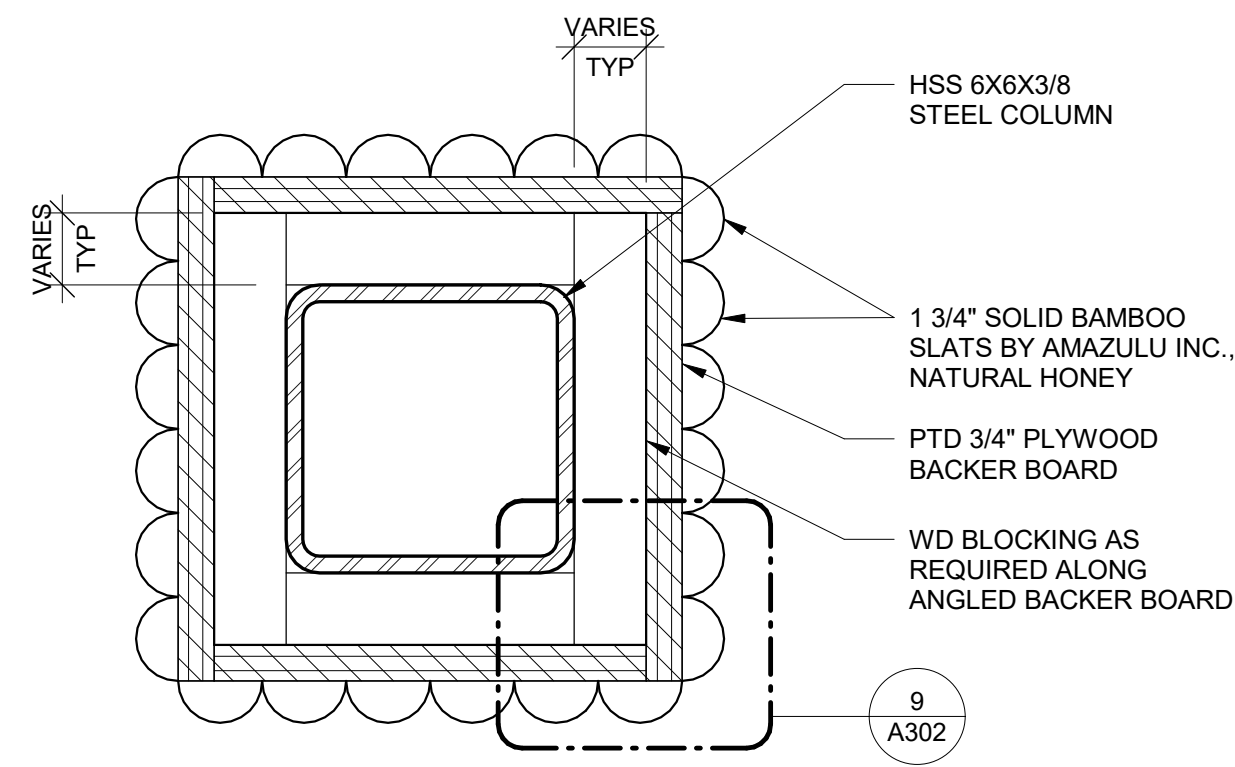


11 ENLARGED SECTION THROUGH BAMBOO SLAT
6" = 1'-0"

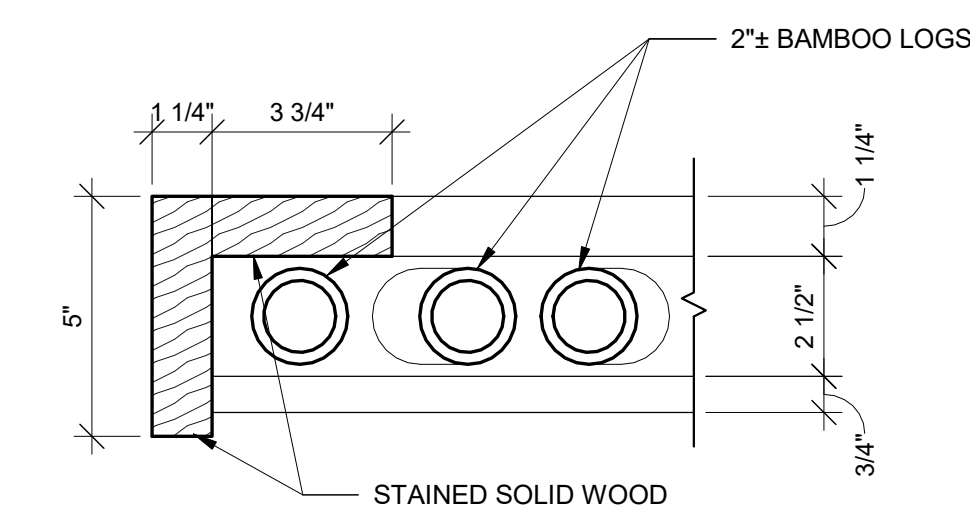


9 ENLARGED PLAN DETAIL - BAMBOO SLATS
6" = 1'-0"

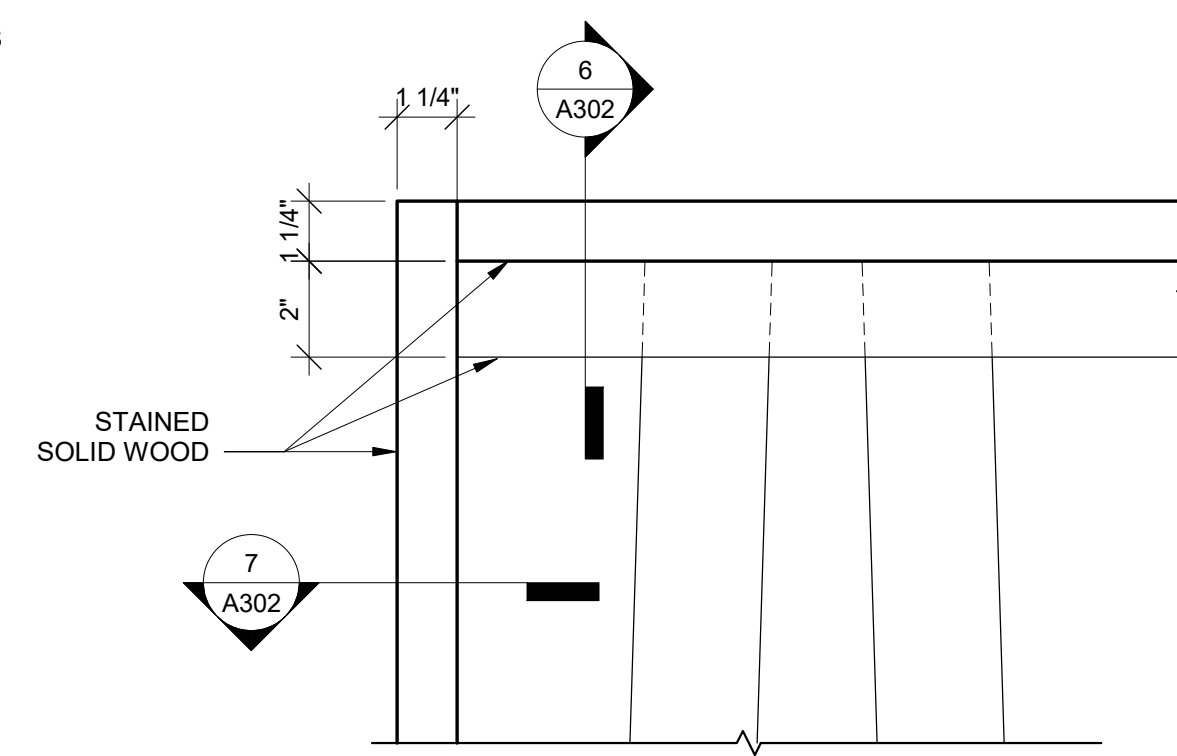
TO ATTACH BAMBOO SLATS - PRE-DRILL A HOLE IN THE NODE (THICKEST PART OF THE BAMBOO STRIP) AND SCREW INTO BACKER BOARD. FILL HOLES W/ WOOD PUTTY MIXED WITH BAMBOO SAW DUST.



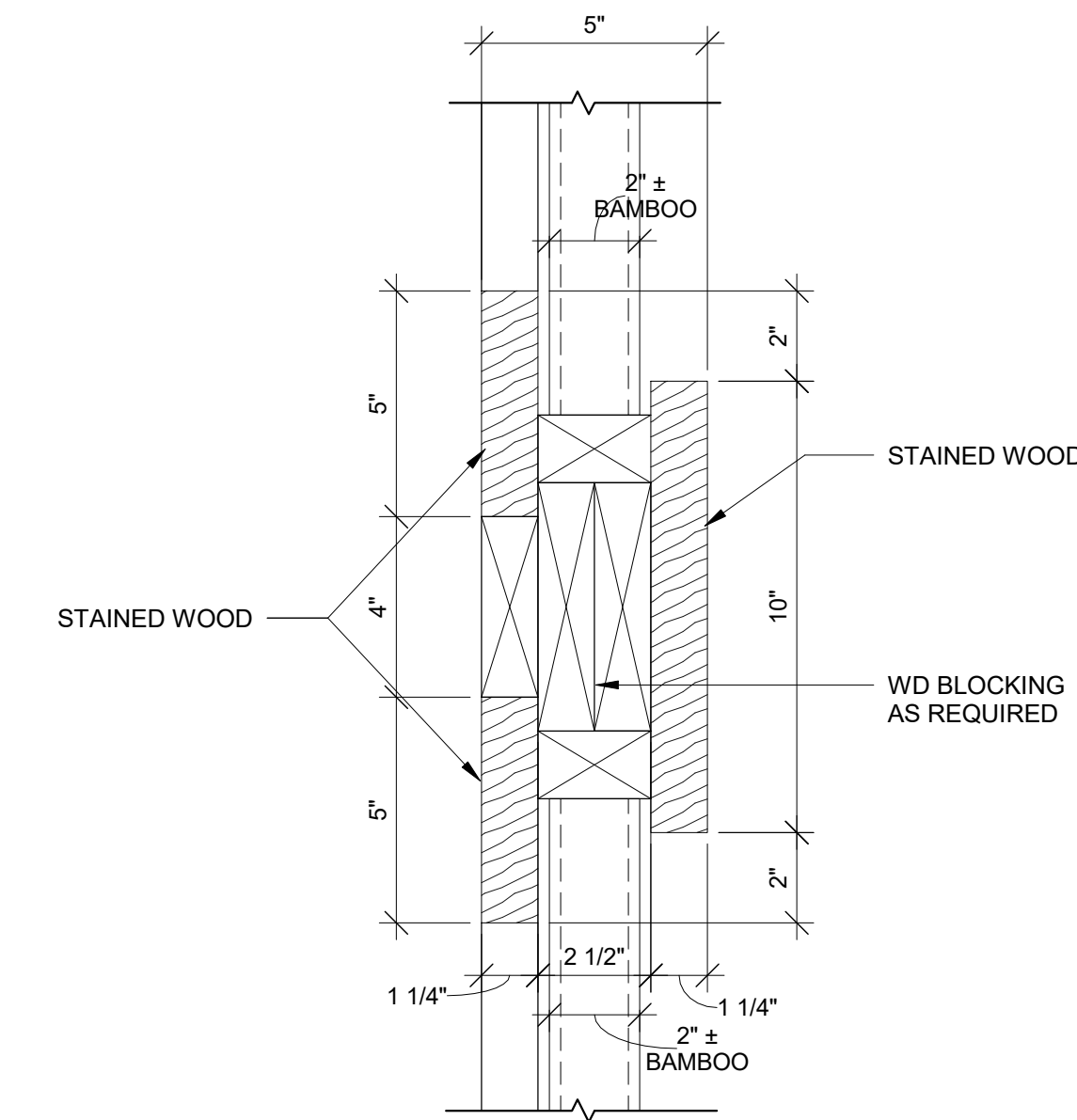
10 PLAN DETAIL AT INTERIOR BAMBOO COLUMN
3" = 1'-0"



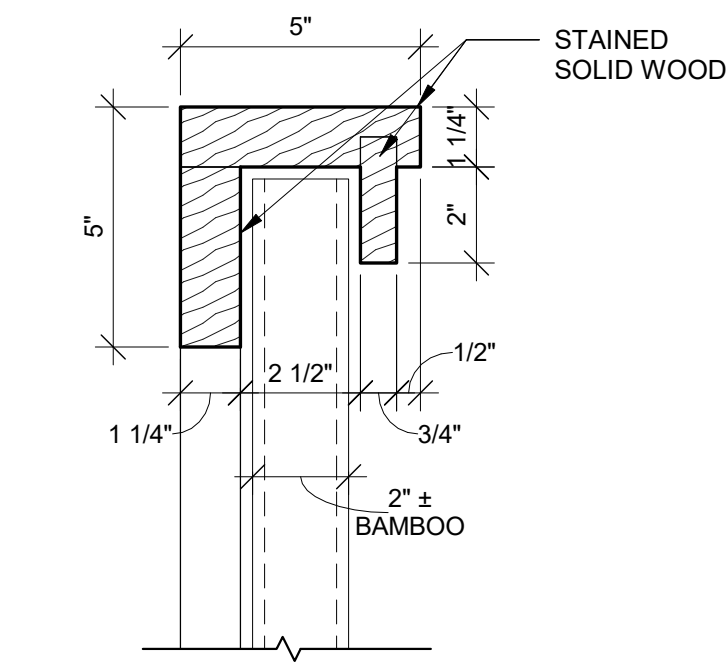
7 TYPICAL PLAN DETAIL AT BAMBOO PANEL
3" = 1'-0"



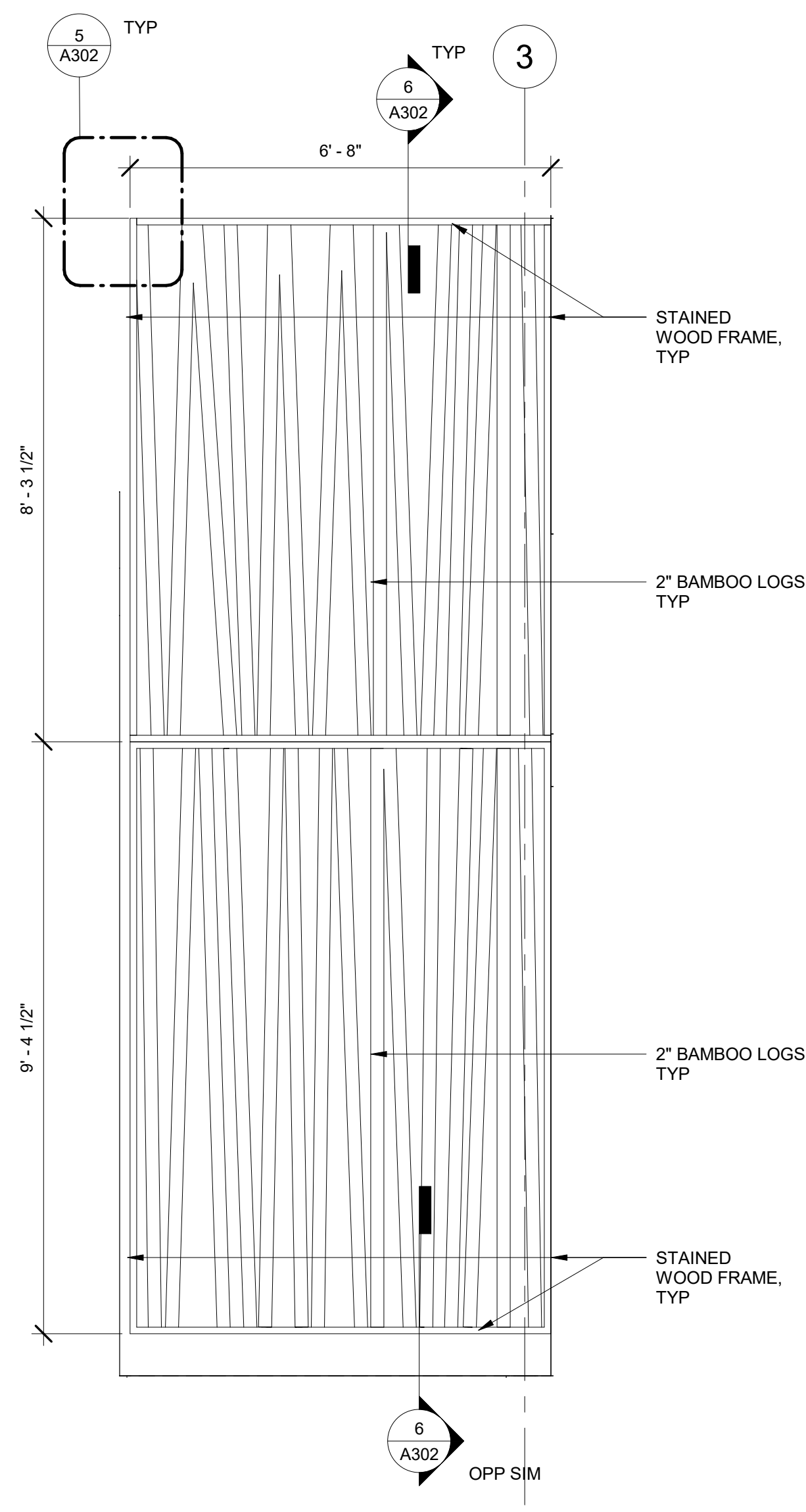
5 TYPICAL FRONT DETAIL OF BAMBOO PANEL
3" = 1'-0"



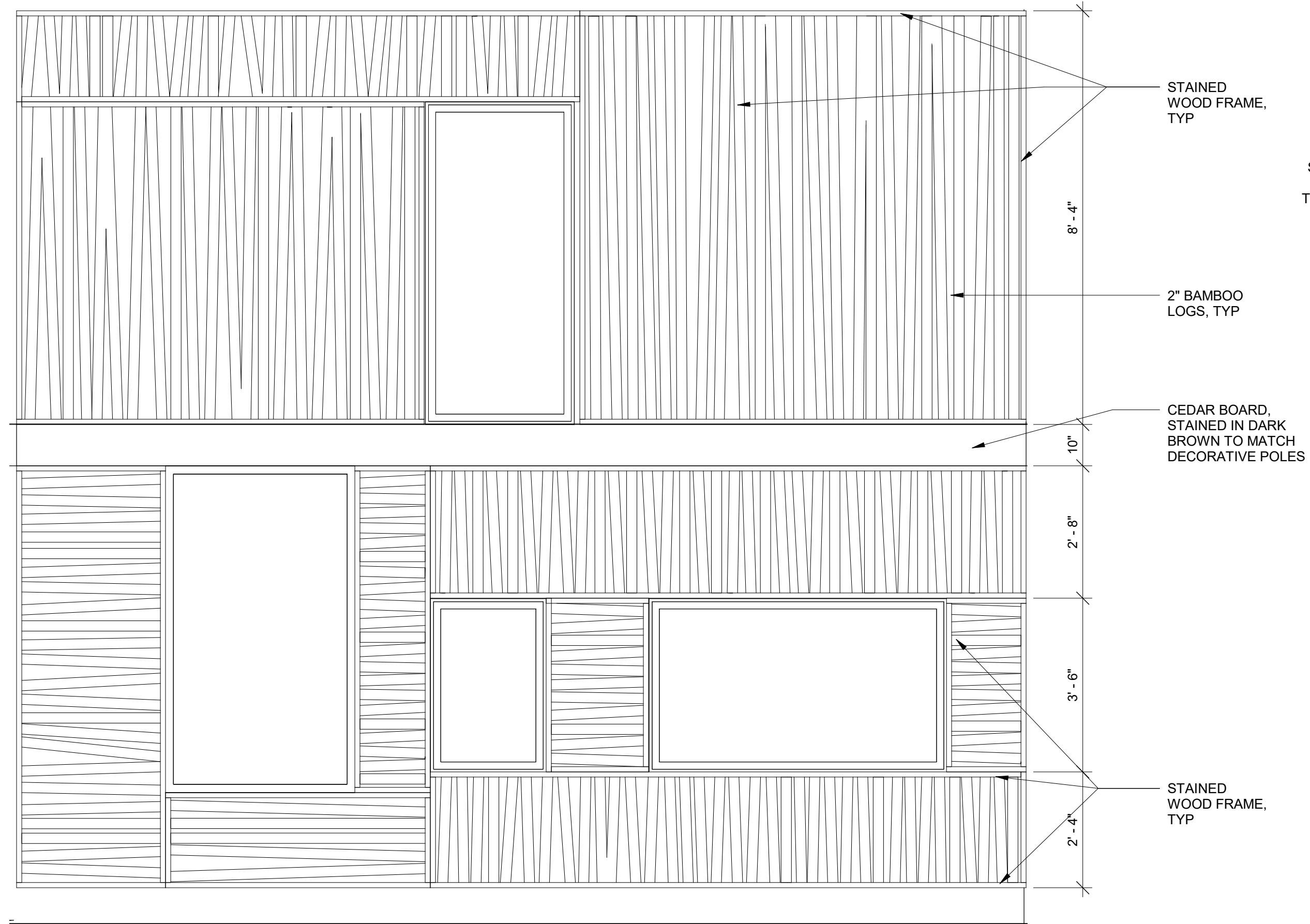
8 BAMBOO PANEL 'A' SECTION THROUGH CONNECTING MIDDLE FRAME
3" = 1'-0"



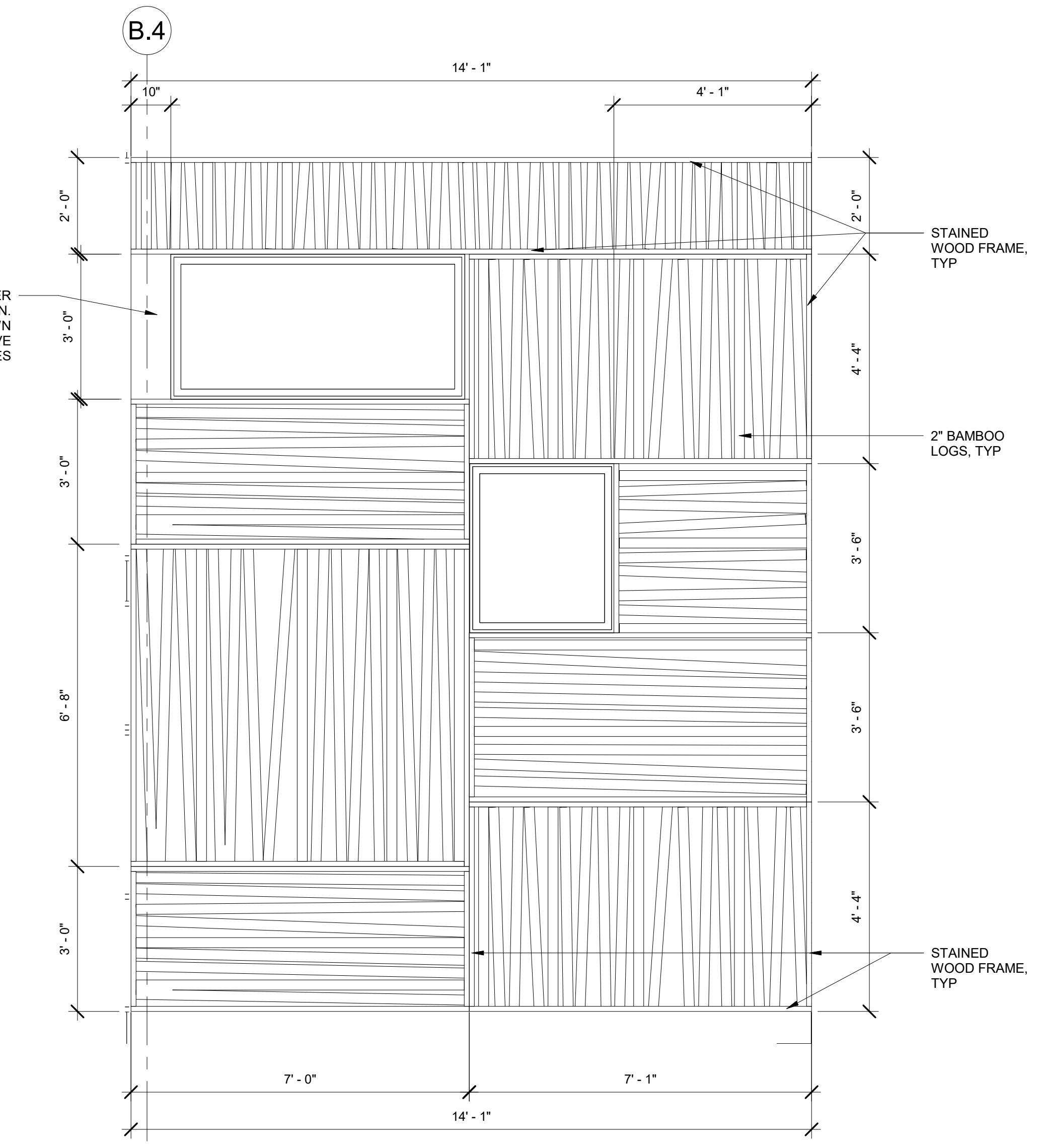
6 TYPICAL BAMBOO PANEL SECTION
3" = 1'-0"



4 BAMBOO PANEL NORTH 2
1/2" = 1'-0"



2 BAMBOO PANEL SOUTH WEST
1/2" = 1'-0"



1 BAMBOO PANEL SOUTH
1/2" = 1'-0"

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08-06-19

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MEDIA, PA 19063

CAPE MAY COUNTY ZOO SAFARI
CAFE 2 NEW RETAIL FOOD BUILDING
707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210

TITLE:
BAMBOO PANEL DETAILS
DWG. NO.
A302

APPROVED BY: AT
DRAWN (Author)
SCALAS indicated

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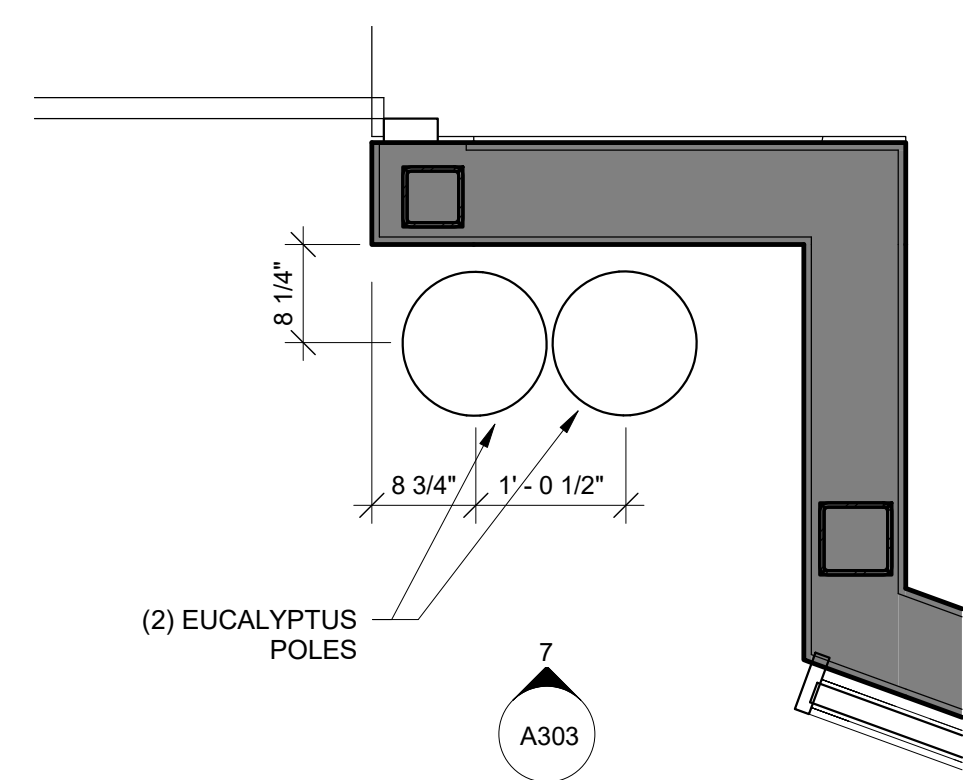
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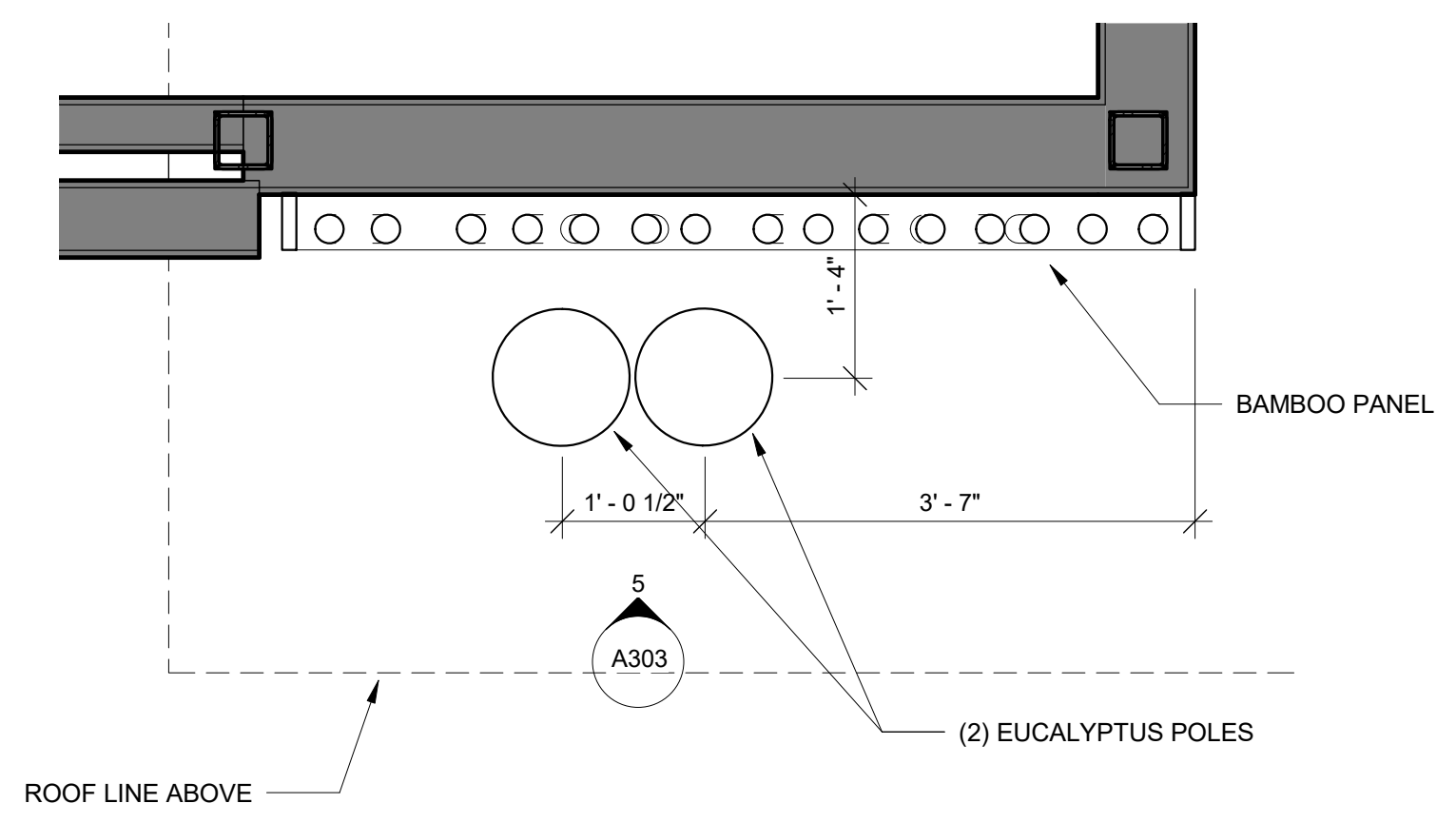
**CAPE MAY COUNTY ZOO SAFARI
 CAFE 2 NEW RETAIL FOOD BUILDING**
 707 ROUTE 9 NORTH, CAPE MAY COURT
 HOUSE, NJ 08210

TITLE:
BAMBOO SLAT SUSPENDED CANOPY DETAILS
 DWG. NO. **A303**

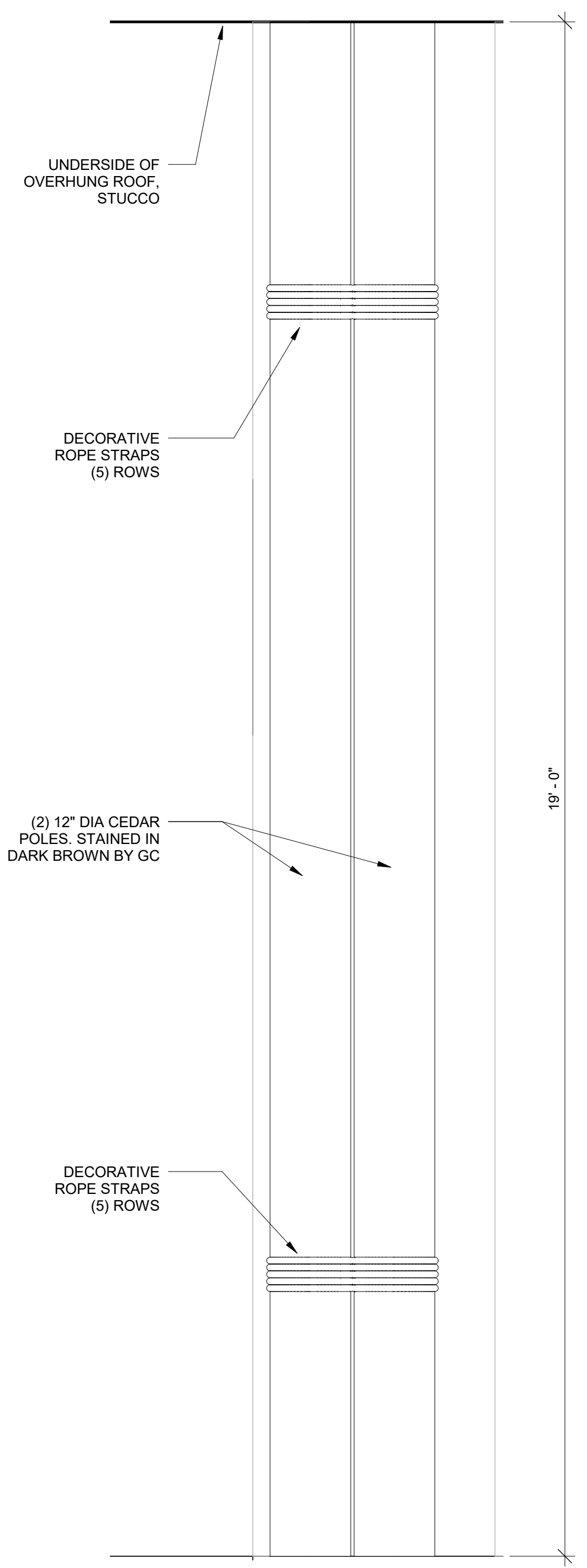
APPROVED BY: AT
 JOB#: 1610-021
 DRAWN (Author)
 SCALAS indicated



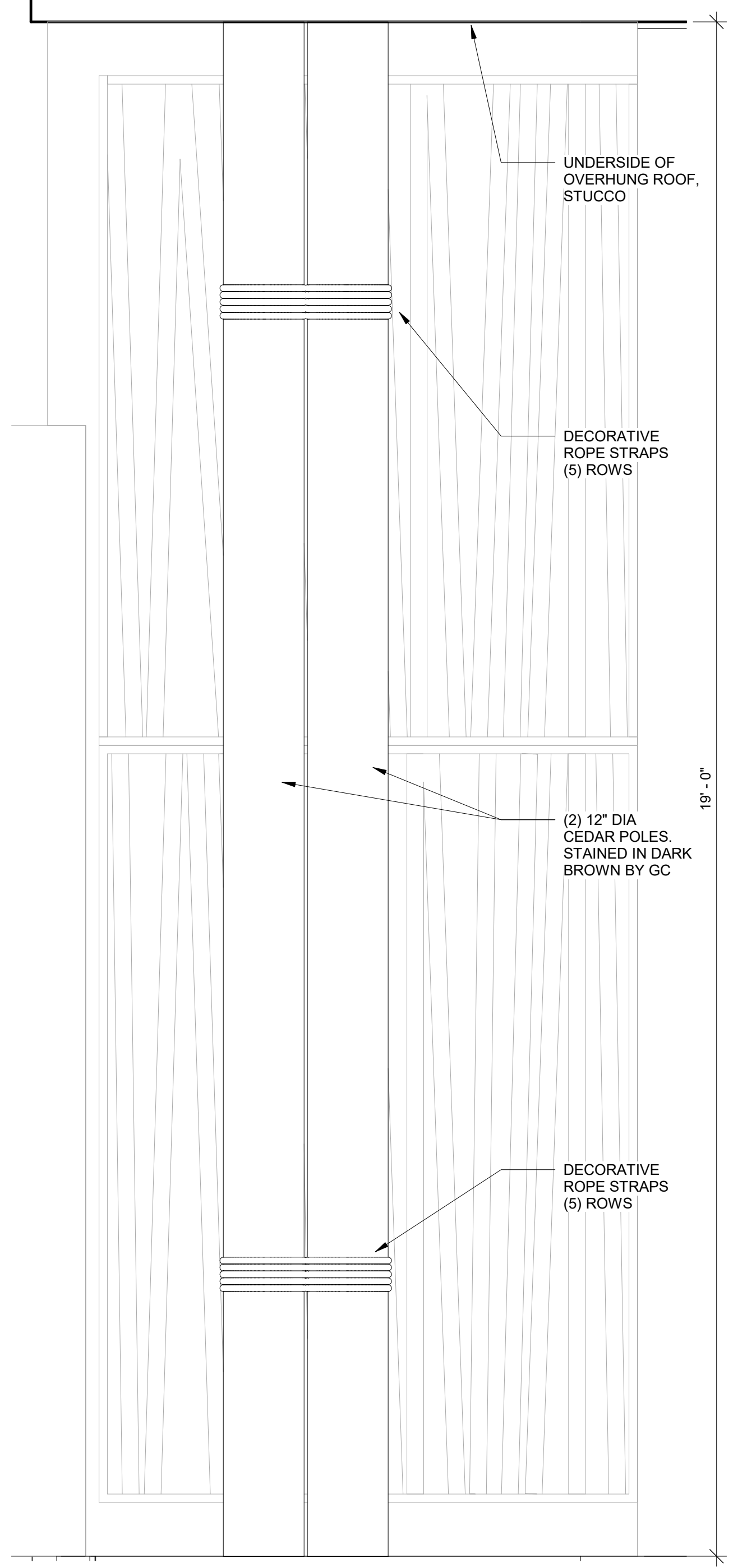
6 WEST FACADE - EUCALYPTUS POLES PLAN
 3/4" = 1'-0"



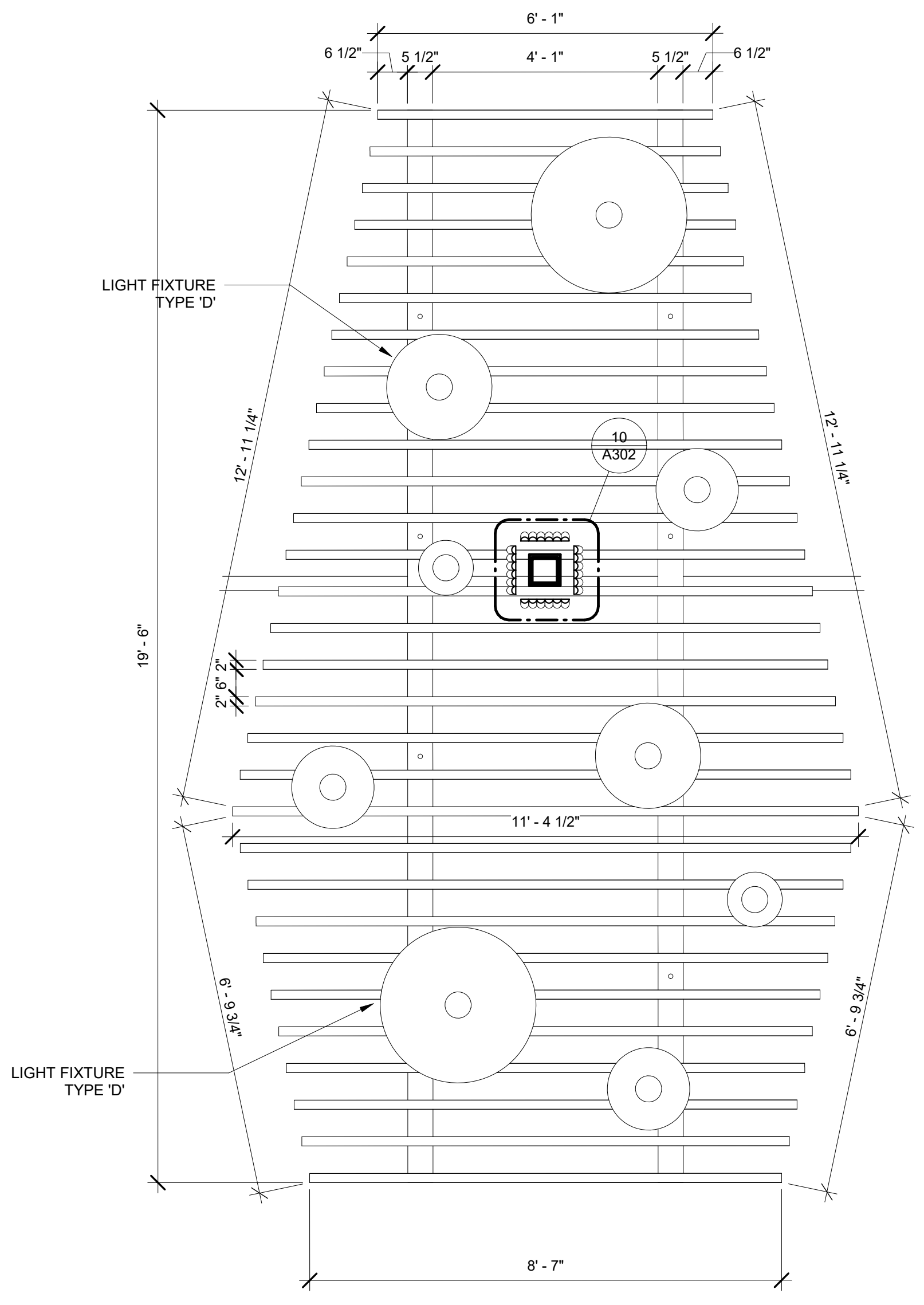
4 NORTH FACADE - EUCALYPTUS POLES PLAN
 3/4" = 1'-0"



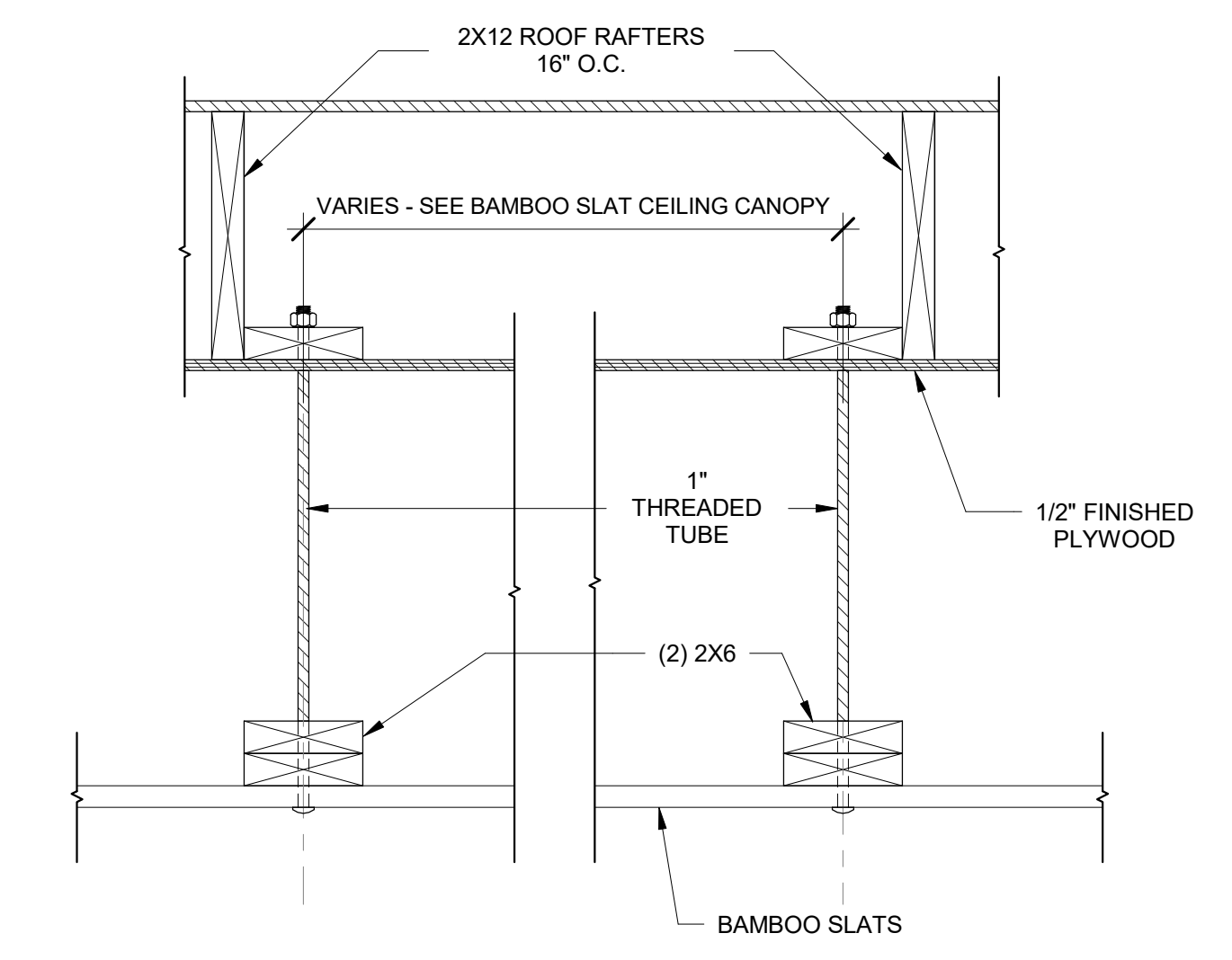
7 Elevation 4 - a
 3/4" = 1'-0"



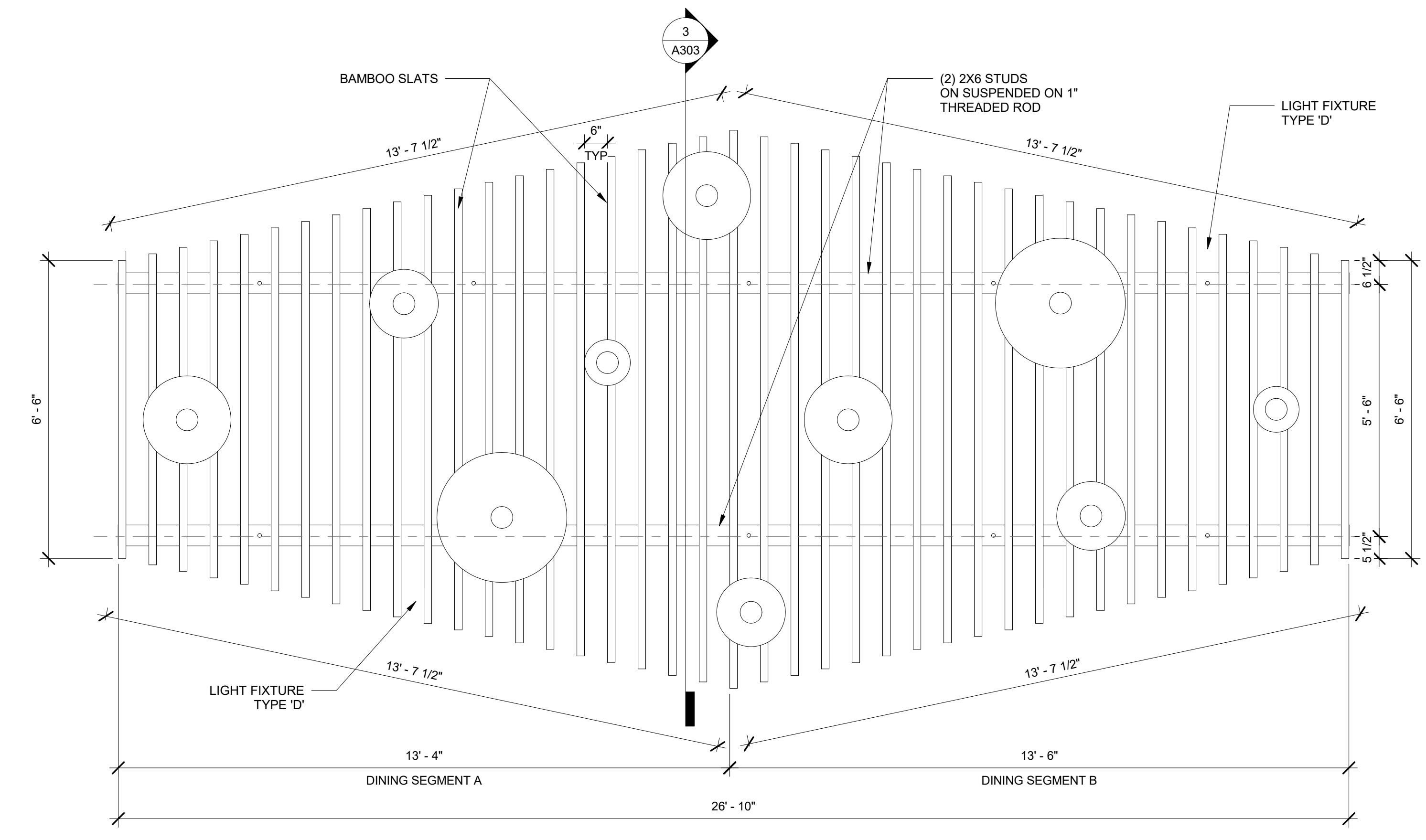
5 Elevation 3 - a
 3/4" = 1'-0"



1 BAMBOO SLAT CEILING CANOPY AT FOOD COURT
 1/2" = 1'-0"

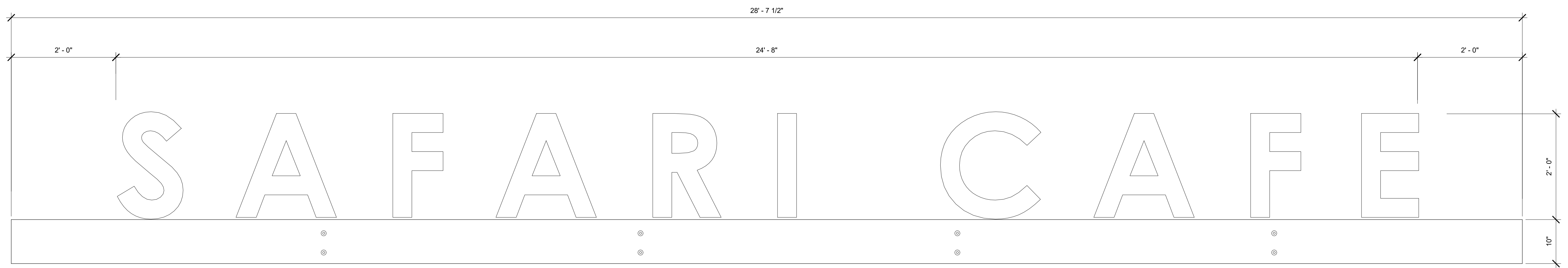


3 BAMBOO SLAT SUSPENSION DETAIL
 1 1/2" = 1'-0"

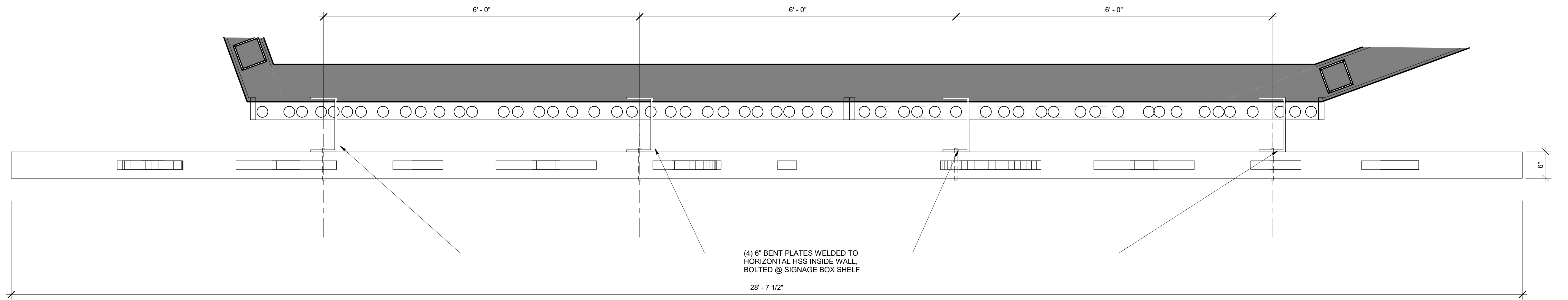


2 BAMBOO SLAT CEILING CANOPY AT DINING ROOM
 1/2" = 1'-0"

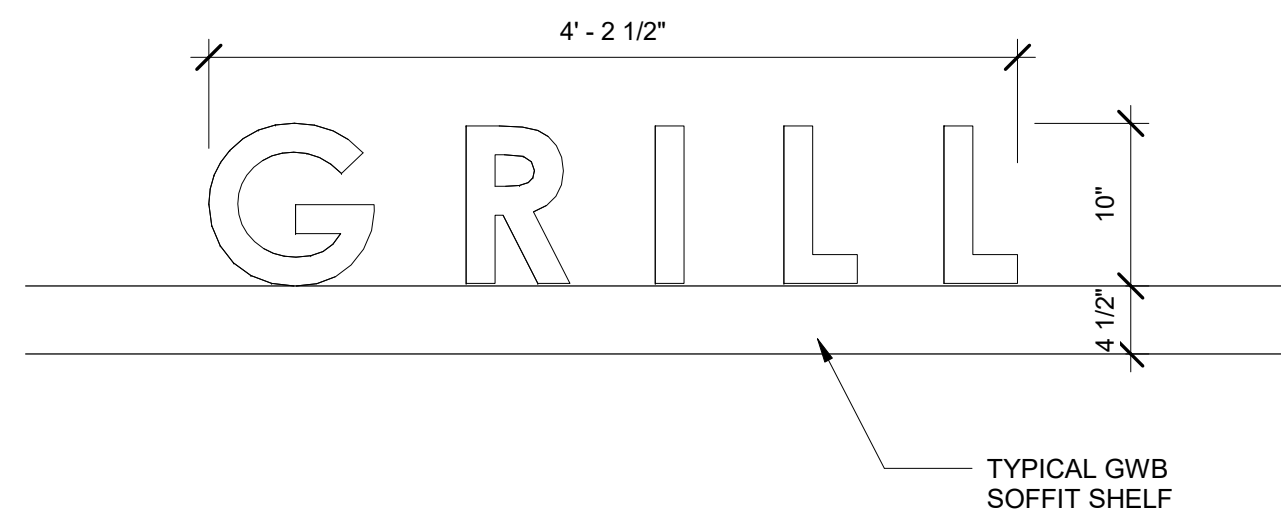
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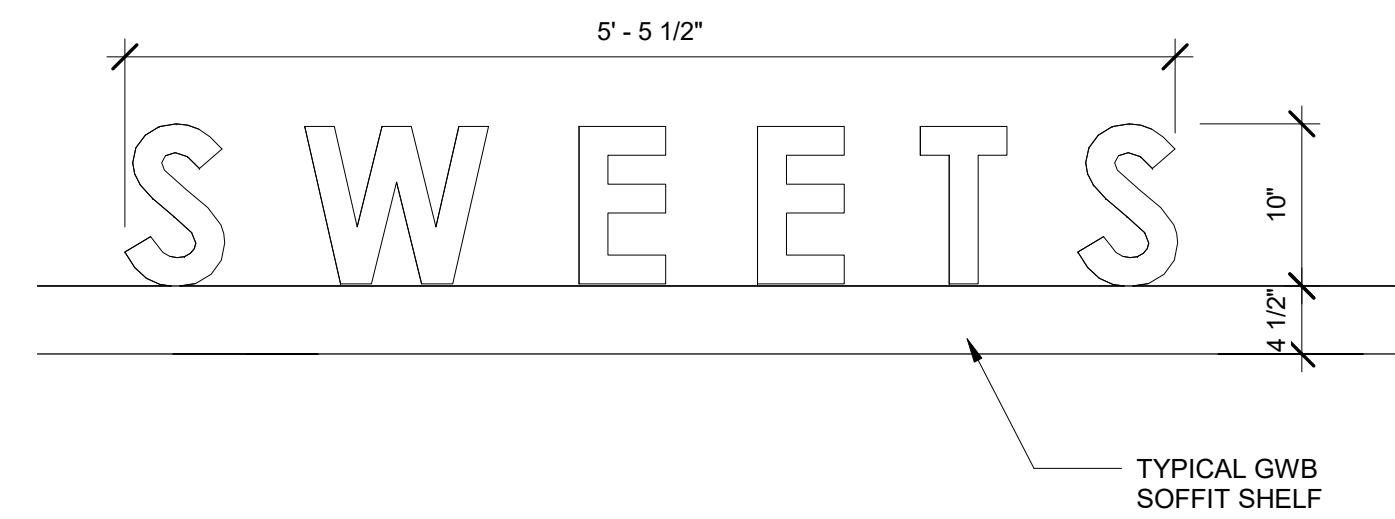
1 EXTERIOR SIGNAGE - ELEVATION
1" = 1'-0"



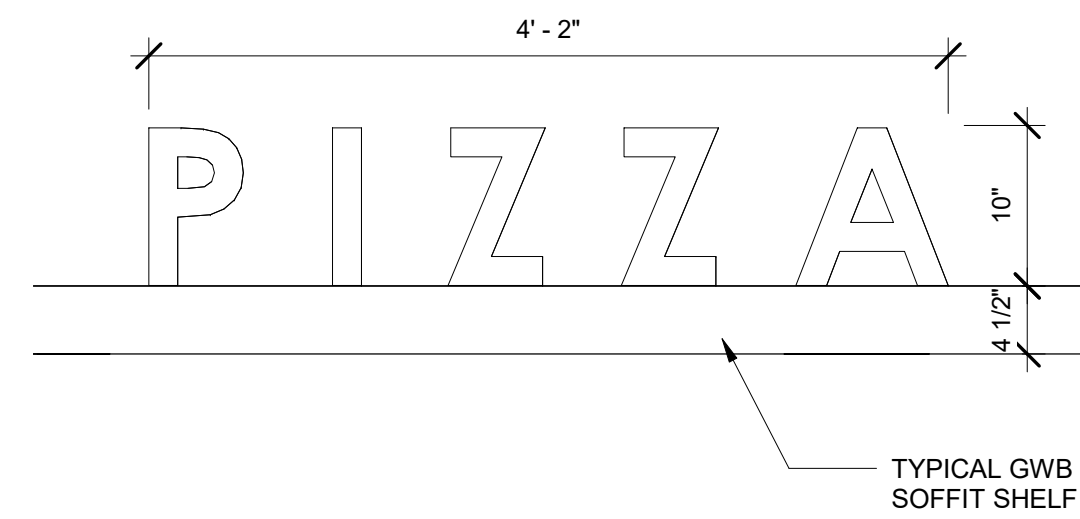
3 EXTERIOR SIGNAGE - PLAN
1" = 1'-0"



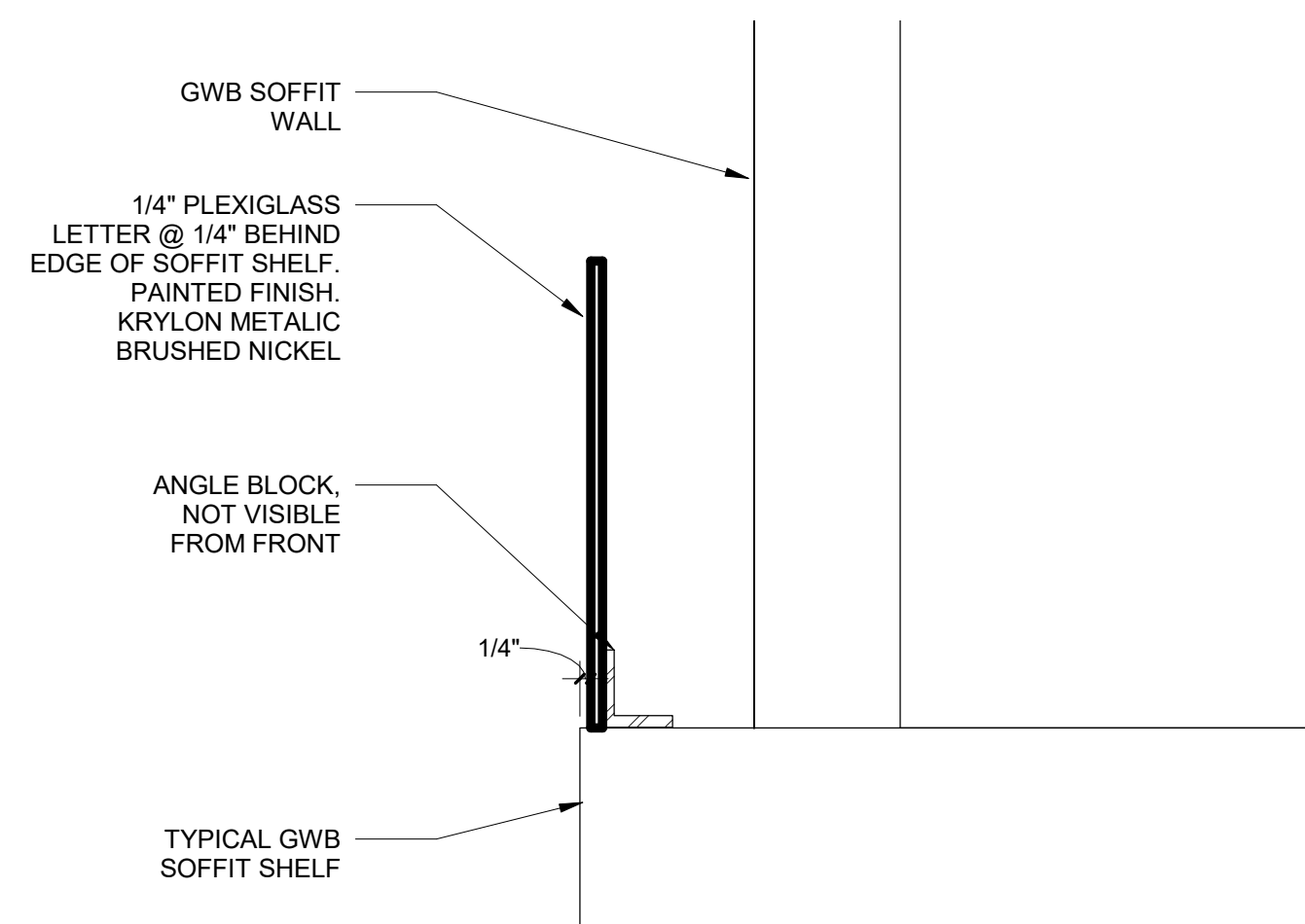
6 INTERIOR SIGN - "GRILL"
1" = 1'-0"



5 INTERIOR SIGN - "SWEETS"
1" = 1'-0"



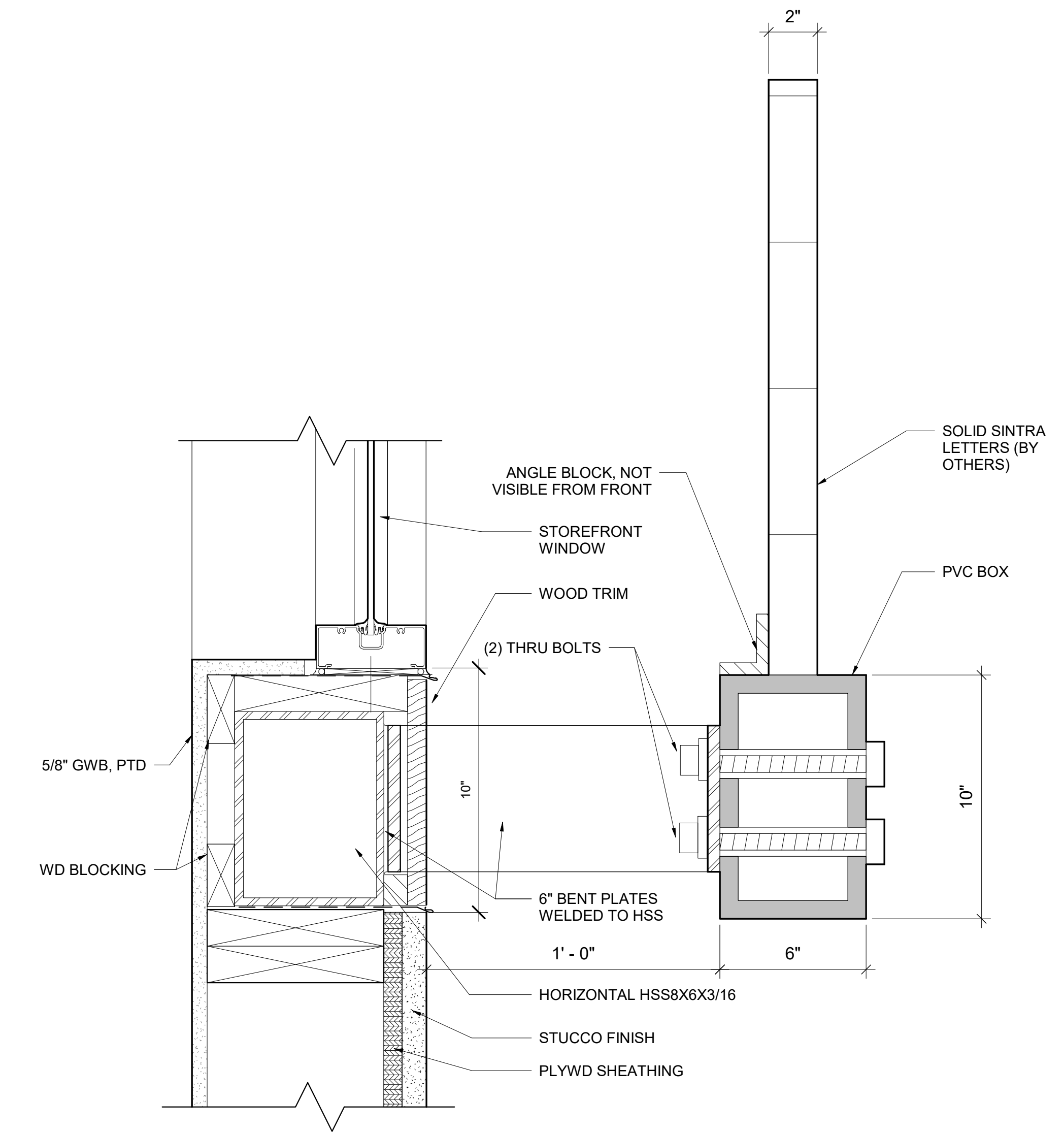
4 INTERIOR SIGN - "PIZZA"
1" = 1'-0"



8 SECTION @ TYPICAL INTERIOR SIGNS
3" = 1'-0"

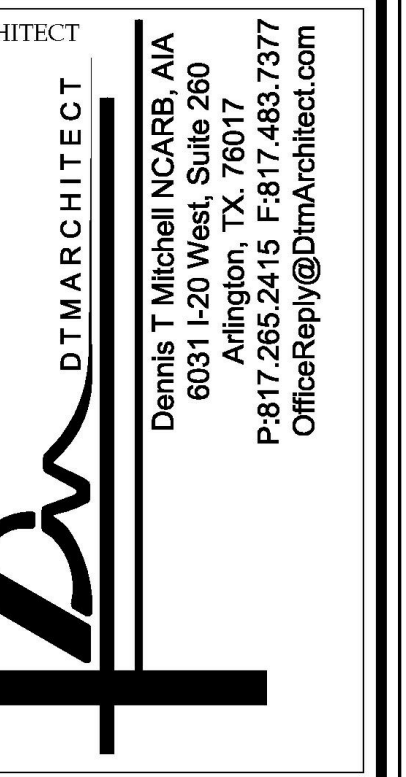
SIGNAGE SCHEDULE

NO	COPY	LOCATION	SIZE	FONT	COLOR	REMARKS
1	SAFARI CAFE	EXTERIOR, NORTH-WEST FACADE	24" H.	CENTURY GOTHIC	GREEN MANUF. BENJAMIN MOORE #2029-40 STEM GREEN	
2	PIZZA	INTERIOR, FOODCOURT	10" H.	CENTURY GOTHIC	KRYLON METALIC BRUSHED NICKEL	
3	SWEETS	INTERIOR, FOODCOURT	10" H.	CENTURY GOTHIC	KRYLON METALIC BRUSHED NICKEL	
4	GRILL	INTERIOR, FOODCOURT	10" H.	CENTURY GOTHIC	KRYLON METALIC BRUSHED NICKEL	



2 EXTERIOR SIGNAGE - SECTION DETAIL
3" = 1'-0"

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08-06-19



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1105 MELLIE DRIVE
DOWNTOWNTOWN, PA 19335

MULHERN CONSULTING ENGINEERS

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HATBORO, PA 19040

STRUCTURAL ENGINEER:

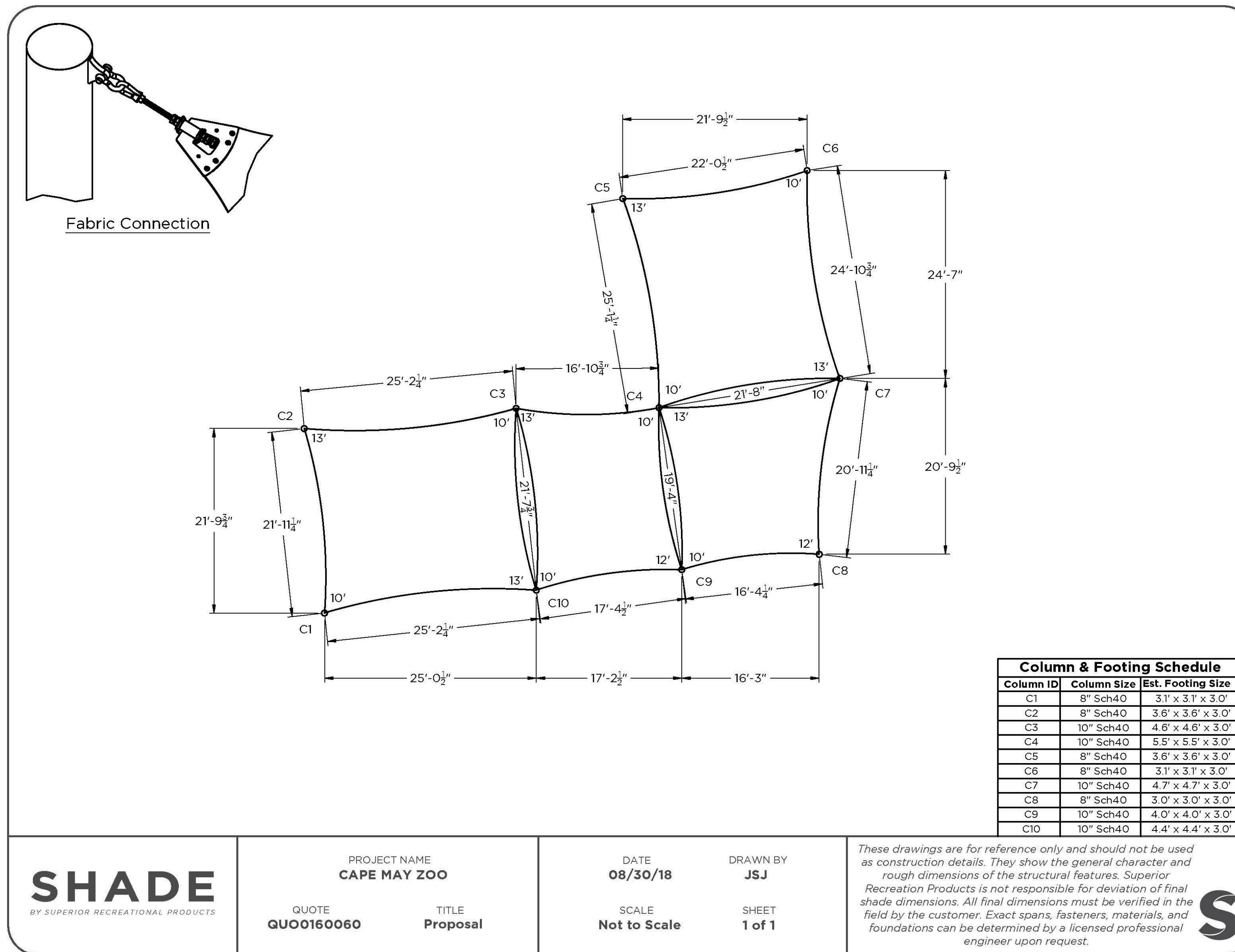
CKS STRUCTURES, INC.
280 N. PROVIDENCE RD, SUITE 105
MEDIA, PA 19063

CAPE MAY COUNTY ZOO SAFARI CAFE 2 NEW RETAIL FOOD BUILDING
707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210

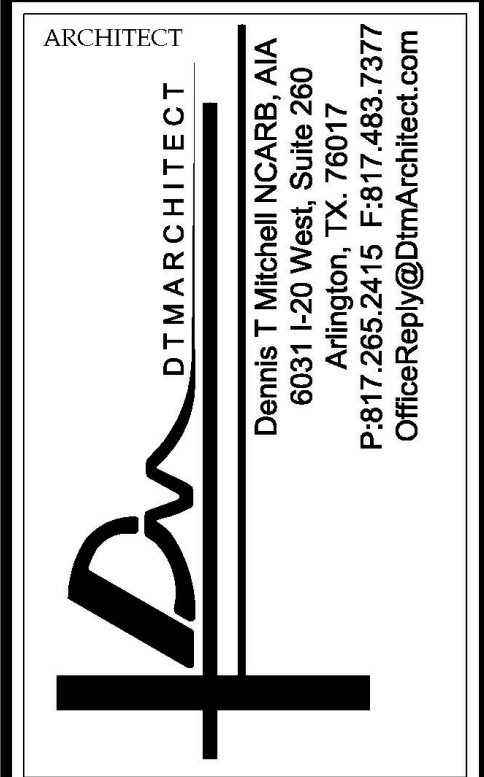
DRAWN (Author)
SCALAs indicated

TITLE:
SIGNAGE DETAILS
DWG. NO.
A304

APPROVED BY: AT
JOB#: 1610-021



SHADE SAIL PRICING NOTES:
 BIDDING CONTRACTOR TO INCLUDE INSTALLATION COST OF SHADE SAIL SYSTEM (INCLUDING CONCRETE FOUNDATION, POST ERECTION AND SHADE INSTALLATION) ACCORDING TO THE SPECIFICATION SHOWN IN THIS SHEET.



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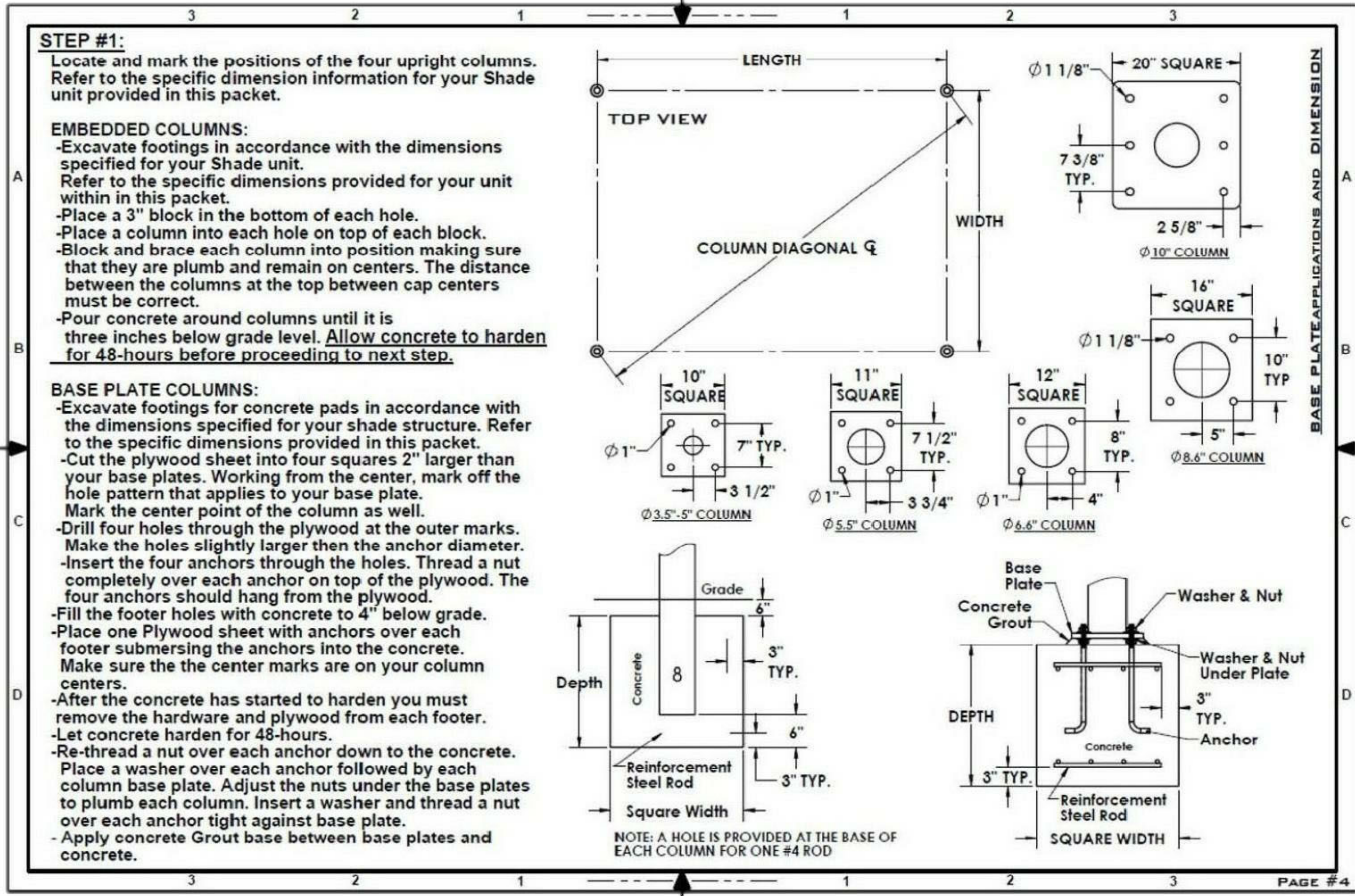
MULHERN CONSULTING ENGINEERS
 321 SOUTH YORK ROAD
 HATBORO, PA 19040

STRUCTURAL ENGINEER:
CKS STRUCTURES, INC.
 280 N. PROVIDENCE RD, SUITE 105
 MEDIA, PA 19063

SHADE
 BY SUPERIOR RECREATIONAL PRODUCTS

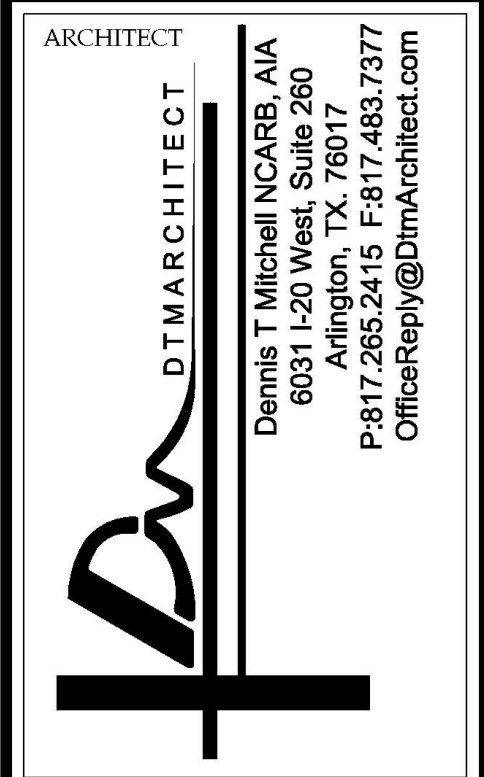
PROJECT NAME: **CAPE MAY ZOO**
 QUOTE: **QU00160060**
 TITLE: **Proposal**
 DATE: **08/30/18**
 DRAWN BY: **JSJ**
 SCALE: **Not to Scale**
 SHEET: **1 of 1**

These drawings are for reference only and should not be used as construction details. They show the general character and rough dimensions of the structural features. Superior Recreation Products is not responsible for deviation of final shade dimensions. All final dimensions must be verified in the field by the customer. Exact spans, fasteners, materials, and foundations can be determined by a licensed professional engineer upon request.



ISSUE FOR BID
 08-06-19

TITLE: **SHADE SAIL DETAILS**
 DWG. NO. **A305**
 PROJECT: **CAPE MAY COUNTY ZOO SAFARI CAFE 2 NEW RETAIL FOOD BUILDING**
 ADDRESS: **707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210**
 APPROVED BY: AT
 JOB#: 1610-021
 DRAWN (Author)
 SCALE:



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MEP ENGINEER:
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 HATBORO, PA 19040

STRUCTURAL ENGINEER:
CKS STRUCTURES, INC.
 280 N. PROVIDENCE RD, SUITE 105
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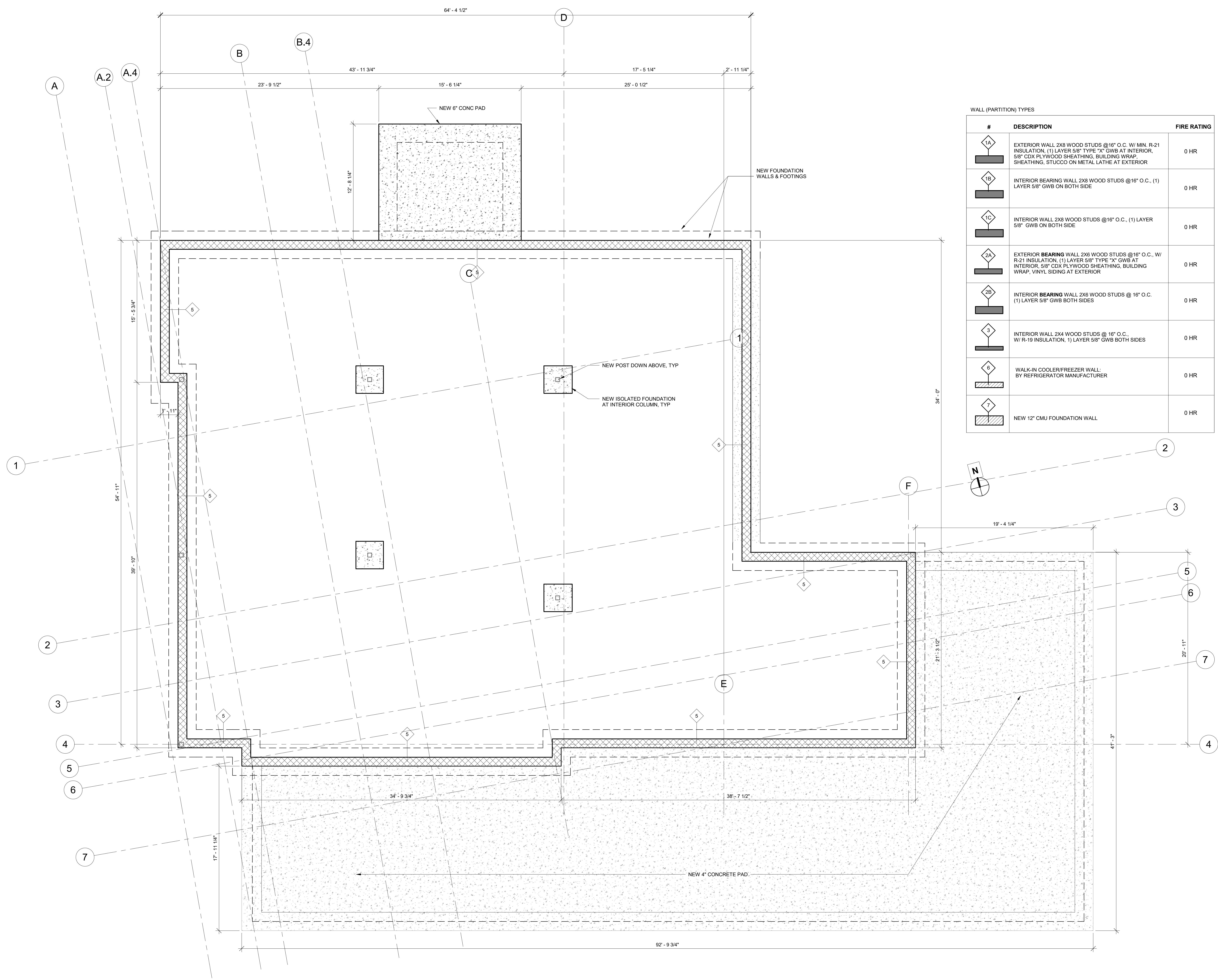
**CAPE MAY COUNTY ZOO SAFARI
 CAFE 2 NEW RETAIL FOOD BUILDING**
 707 ROUTE 9 NORTH, CAPE MAY COURT
 HOUSE, NJ 08210

TITLE:
 FOUNDATION PLAN
 DWG. NO.
A-S100

APPROVED BY: AT
 DRAWN (Author)
 SCALE: 1/4" = 1'-0"
 JOB#: 1610-021

WALL (PARTITION) TYPES

#	DESCRIPTION	FIRE RATING
1A	EXTERIOR WALL 2X8 WOOD STUDS @16" O.C. W/ MIN. R-21 INSULATION, (1) LAYER 5/8" TYPE "X" GWB AT INTERIOR, 5/8" CDX PLYWOOD SHEATHING, BUILDING WRAP, SHEATHING, STUCCO ON METAL LATHE AT EXTERIOR	0 HR
1B	INTERIOR BEARING WALL 2X8 WOOD STUDS @16" O.C., (1) LAYER 5/8" GWB ON BOTH SIDE	0 HR
1C	INTERIOR WALL 2X8 WOOD STUDS @16" O.C., (1) LAYER 5/8" GWB ON BOTH SIDE	0 HR
2A	EXTERIOR BEARING WALL 2X6 WOOD STUDS @16" O.C., W/ R-21 INSULATION, (1) LAYER 5/8" TYPE "X" GWB AT INTERIOR, 5/8" CDX PLYWOOD SHEATHING, BUILDING WRAP, VINYL SIDING AT EXTERIOR	0 HR
2B	INTERIOR BEARING WALL 2X6 WOOD STUDS @ 16" O.C. (1) LAYER 5/8" GWB BOTH SIDES	0 HR
3	INTERIOR WALL 2X4 WOOD STUDS @ 16" O.C., W/ R-19 INSULATION, 1) LAYER 5/8" GWB BOTH SIDES	0 HR
6	WALK-IN COOLER/FREEZER WALL: BY REFRIGERATOR MANUFACTURER	0 HR
7	NEW 12" CMU FOUNDATION WALL	0 HR



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

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 08-06-19

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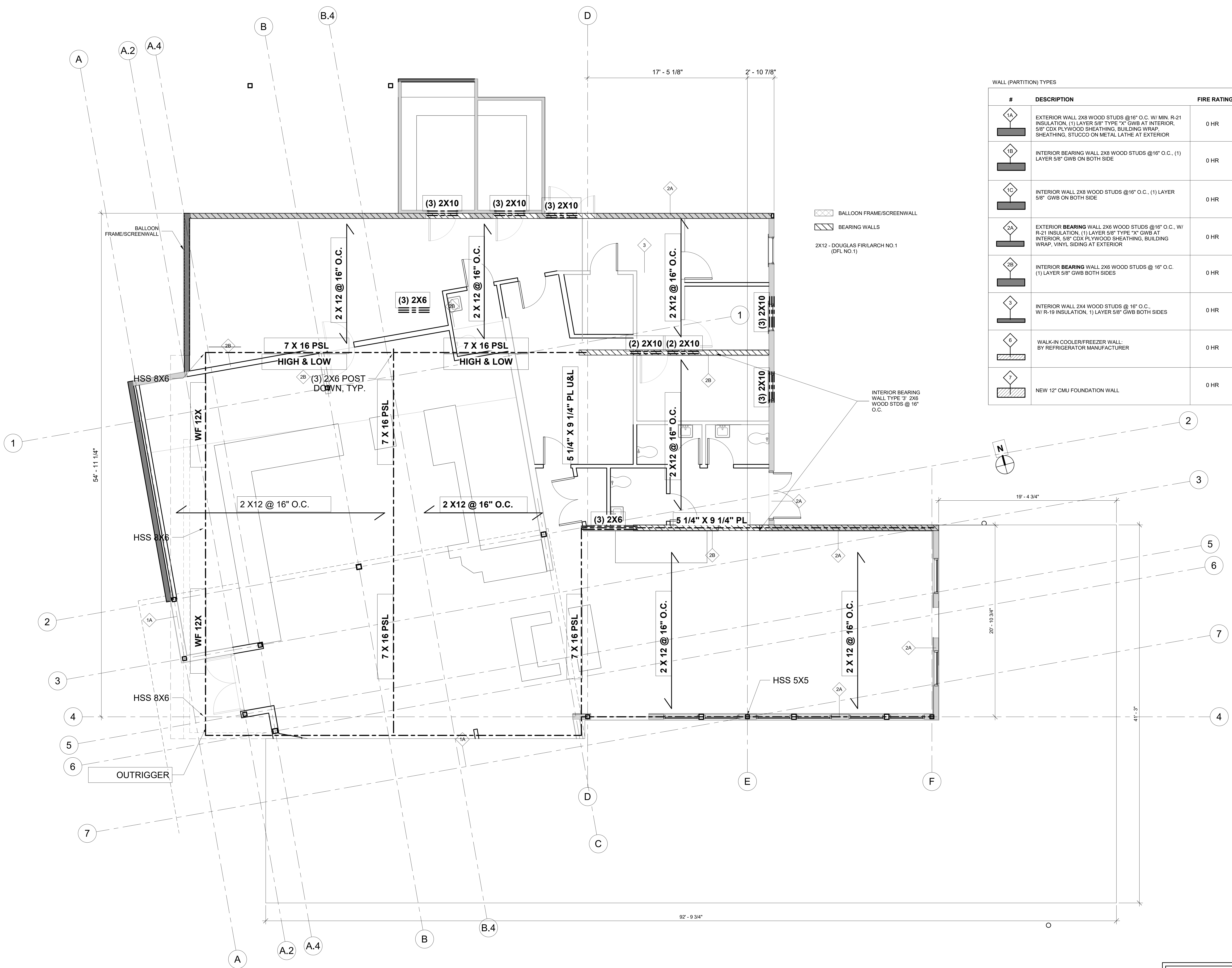
**CAPE MAY COUNTY ZOO SAFARI
 CAFE 2 NEW RETAIL FOOD BUILDING**
 707 ROUTE 9 NORTH, CAPE MAY COURT
 HOUSE, NJ 08210

TITLE:
STRUCTURAL PLAN
 DWG. NO.
A-S101

APPROVED BY: AT
 DRAWN/Author
 SCALE/1/4" = 1'-0"
 JOB#: 1610-021

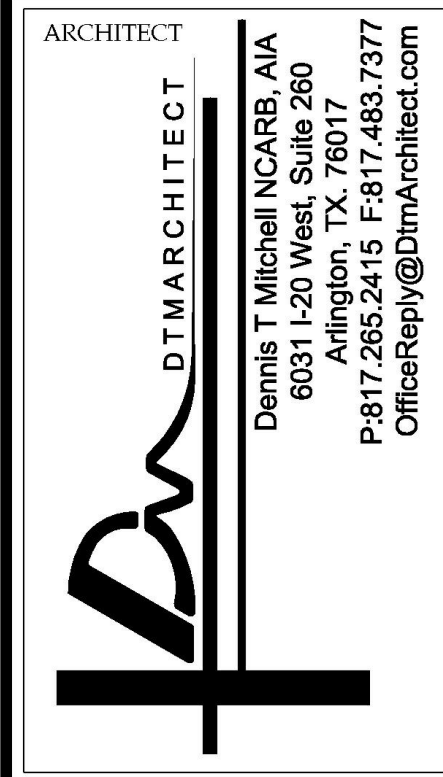
#	DESCRIPTION	FIRE RATING
1A	EXTERIOR WALL 2X8 WOOD STUDS @16" O.C. W/ MIN. R-21 INSULATION, (1) LAYER 5/8" TYPE "X" GWB AT INTERIOR, 5/8" CDX PLYWOOD SHEATHING, BUILDING WRAP, SHEATHING, STUCCO ON METAL LATHE AT EXTERIOR	0 HR
1B	INTERIOR BEARING WALL 2X8 WOOD STUDS @16" O.C., (1) LAYER 5/8" GWB ON BOTH SIDE	0 HR
1C	INTERIOR WALL 2X8 WOOD STUDS @16" O.C., (1) LAYER 5/8" GWB ON BOTH SIDE	0 HR
2A	EXTERIOR BEARING WALL 2X6 WOOD STUDS @16" O.C. W/ R-21 INSULATION, (1) LAYER 5/8" TYPE "X" GWB AT INTERIOR, 5/8" CDX PLYWOOD SHEATHING, BUILDING WRAP, VINYL SIDING AT EXTERIOR	0 HR
2B	INTERIOR BEARING WALL 2X6 WOOD STUDS @ 16" O.C. (1) LAYER 5/8" GWB BOTH SIDES	0 HR
3	INTERIOR WALL 2X4 WOOD STUDS @ 16" O.C. W/ R-19 INSULATION, (1) LAYER 5/8" GWB BOTH SIDES	0 HR
6	WALK-IN COOLER/FREEZER WALL: BY REFRIGERATOR MANUFACTURER	0 HR
7	NEW 12" CMU FOUNDATION WALL	0 HR

BALLOON FRAME/SCREENWALL
 BEARING WALLS
 2X12 - DOUGLAS FIR/LARCH NO.1 (DFL NO.1)



1 FIRST FLOOR STRUCTURAL PLAN
 1/4" = 1'-0"

ISSUE FOR BID
 08-06-19



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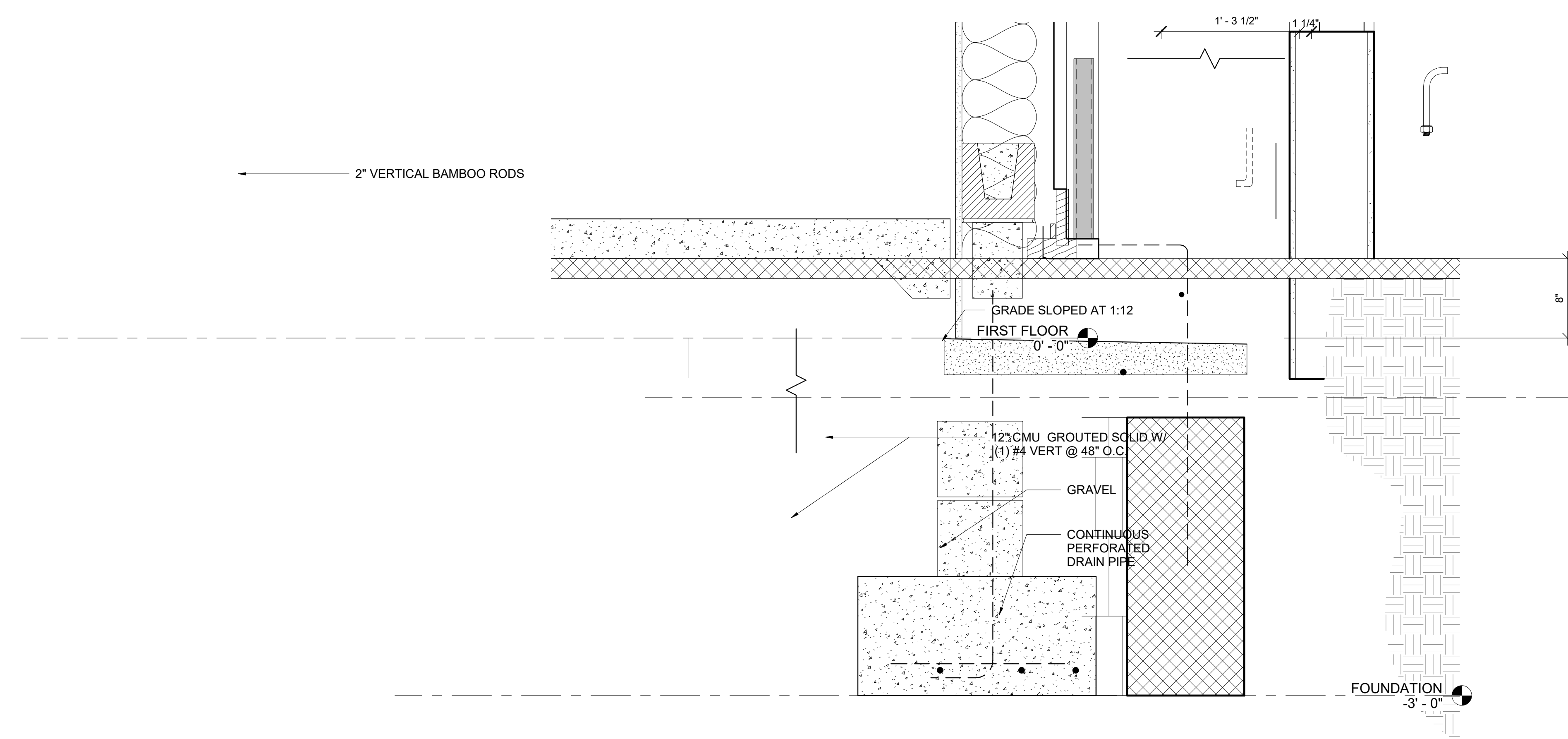
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STRUCTURAL ENGINEER:

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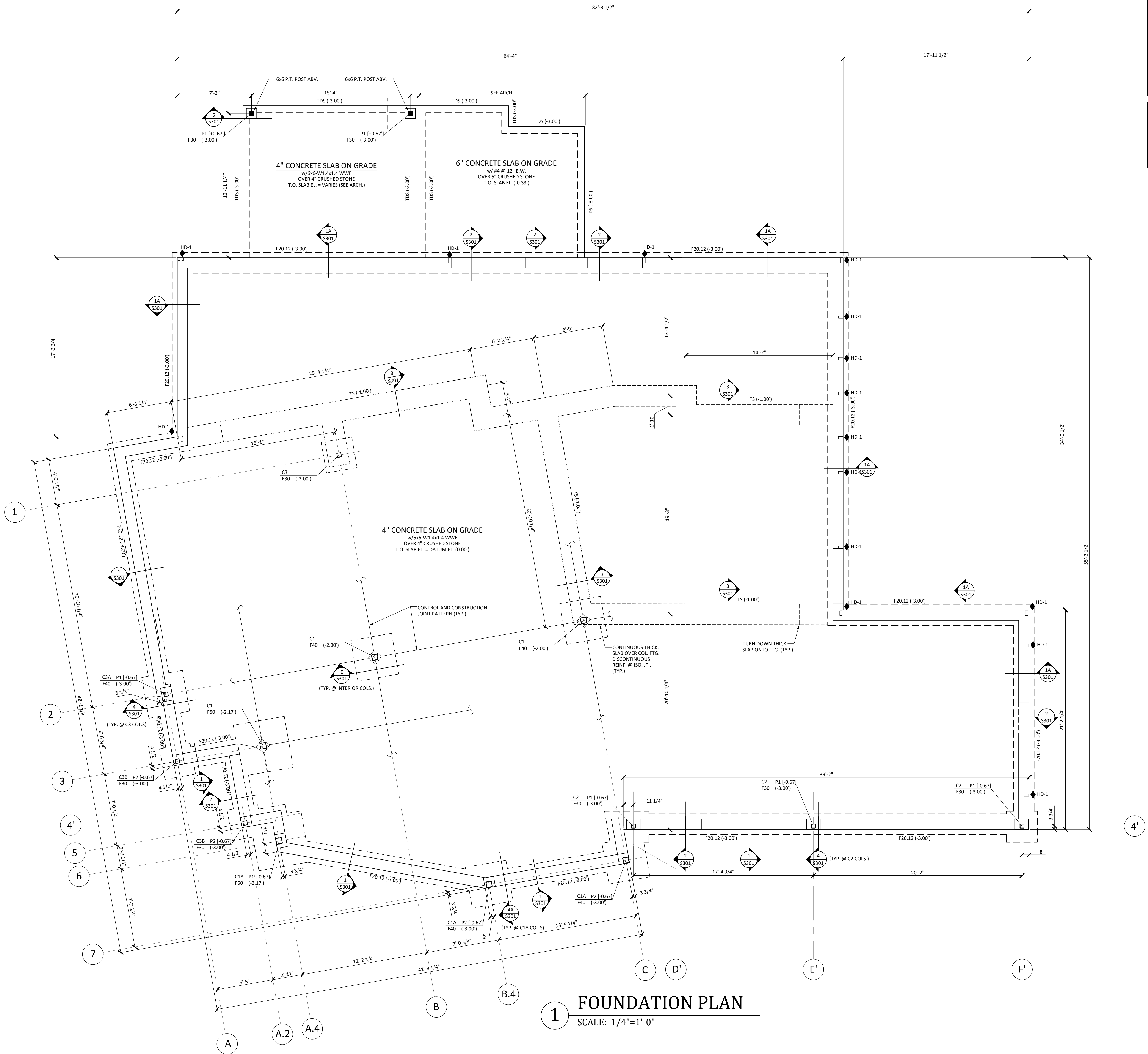
**CAPE MAY COUNTY ZOO SAFARI
 CAPE 2 NEW RETAIL FOOD BUILDING**
 707 ROUTE 9 NORTH, CAPE MAY COURT
 HOUSE, NJ 08210

TITLE:
**STRUCTURAL DETAILS FOR
 CATEGORY II WINDSPEEDS**
 DWG. NO. **A-S102**
 DRAWN/Author APPROVED BY: AT
 SCALE: 1 1/2" = 1'-0" JOB#: 1610-021



① TYPICAL FOUNDATION DETAIL
 1 1/2" = 1'-0"

ISSUE FOR BID
 08-06-19



HOLDDOWN SCHEDULE				
MARK	SIZE	MIN. WOOD MEMBER THICKNESS	ANCHOR BOLTS/ RODS	FASTENERS
HD-1	HDU4 - SDS 2.5	3"	PAB 5 w/ 6" MIN. EMBED.	(100) 3/8" x 2 1/2" SDS

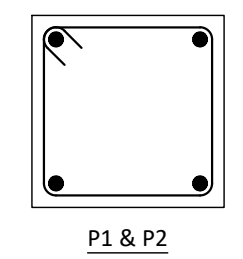
HOLDDOWN SPECIFICATIONS
 - ALL HOLDDOWNS ARE TO BE MANUFACTURED BY SIMPSON STRONGTIE. ALTERNATES ARE TO BE SUBMITTED FOR APPROVAL.
 - 1 1/2" MEMBERS SHALL BE MINIMUM OF (1) 2x STUD
 - 2" MEMBERS SHALL BE MINIMUM OF (2) 2x STUDS FASTENED TOGETHER WITH 12D NAILS AT 4" O.C.
 - 6" MEMBERS SHALL BE MINIMUM OF (4) 2x STUDS FASTENED TOGETHER WITH 12D NAILS AT 4" O.C.
 - REFER TO H/S301 FOR CONNECTION OF ANCHORS TO FOUNDATION @ EXTERIOR WALLS.

CONCRETE PIER SCHEDULE			
MARK	SIZE	VERTICAL REINF.	TIES
P1	12"x16"	(4) #7	#3 @ 12" O.C.
P2	12"x12"	(4) #6	#3 @ 12" O.C.

- FOUNDATION NOTES**
- TOP OF SLAB ELEV. = DATUM ELEV. (0.00')
 - (...) INDICATES BOTTOM OF FOOTING ELEVATION RELATIVE TO DATUM.
 - (...) TOP OF PIER ELEV. RELATIVE TO DATUM, U.N.O.
 - COORDINATE ALL UNDERSLAB PIPING AND CONDUITS PRIOR TO PLACING SLAB.
 - "TDS" INDICATES TURNED DOWN SLAB. SEE TYPICAL DETAIL ON DWG S301.
 - "S.F." INDICATES STEPPED FOOTING. SEE DETAIL ON S301.
 - SEE ARCH. DWG. FOR UNDERSLAB VAPOR BARRIER SPECIFICATION.
 - VERIFY ALL SLAB SLOPES, STEPS, & ELEVATIONS w/ ARCHITECTURAL DRAWINGS

FOOTING SCHEDULE		
MARK	SIZE	REINFORCEMENT
F30	3'-0"x3'-0"x12"	(3) #4 E.W.B.
F40	4'-0"x4'-0"x12"	(4) #4 E.W.B.
F50	5'-0"x5'-0"x14"	(6) #4 E.W.B.
F20.12	2'-0"x12" DEEP (CONT.) THICKENED SLAB	(3)#4 CONT. + #4 @ 24" o.c. TRANS.
TS	2'-0"x12" DEEP (CONT.) THICKENED SLAB	(3)#4 CONT.

STEEL COLUMN SCHEDULE			
MARK	SIZE	BASE PLATE	ANCHOR BOLTS
C1	HSS7x7x1/2"	1"x13"x1'-1"	(4) 3/4" DIA.
C1A	HSS7x7x1/2"	1"x11"x1'-1"	(4) 3/4" DIA.
C2	HSS7x7x1/2"	1"x11"x0'-11"	(4) 3/4" DIA.
C2	HSS5x5x1/2"	3/4"x8"x1'-0"	(4) 3/4" DIA.
C3	HSS5x5x1/2"	3/4"x12"x1'-0"	(4) 3/4" DIA.
C3A	HSS5x5x1/2"	3/4"x8"x1'-0"	(4) 3/4" DIA.
C3B	HSS5x5x1/2"	3/4"x8"x0'-8"	(3) 3/4" DIA.



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

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 24GE04505000

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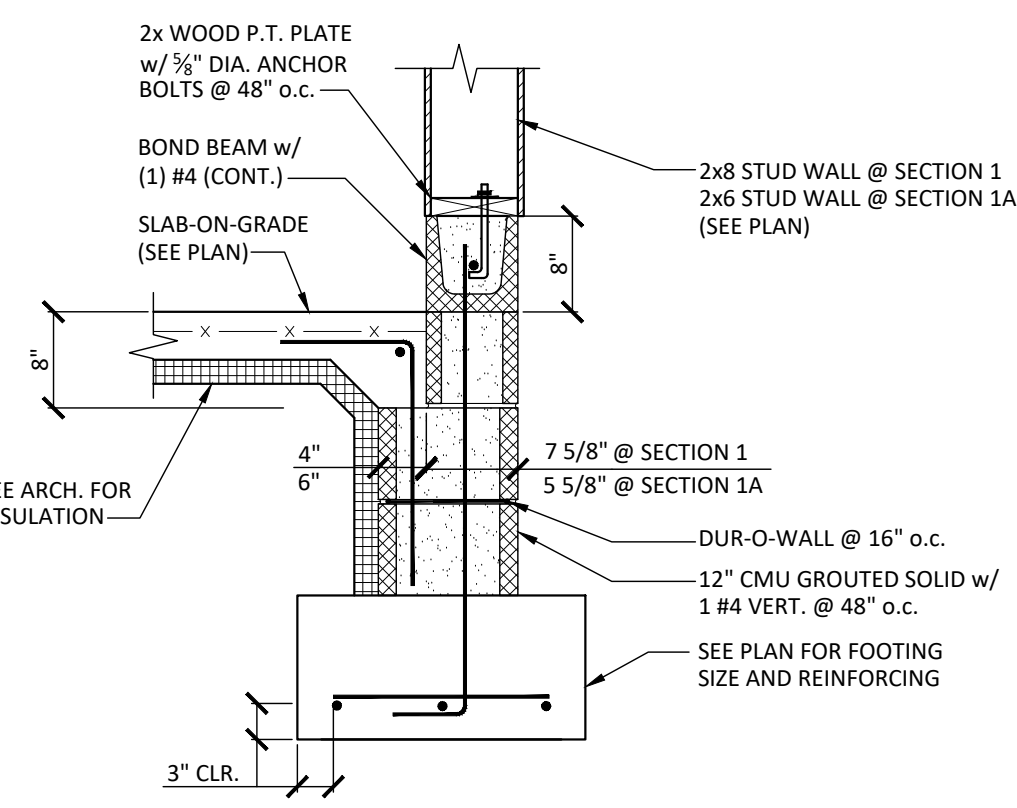
STRUCTURAL ENGINEER:
CKS STRUCTURES, INC.
 280 N. PROVIDENCE RD., SUITE 105
 MEDIA, PA 19063

CAPE MAY COUNTY ZOO SAFARI CAFE 2 NEW RETAIL FOOD BUILDING
 707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210

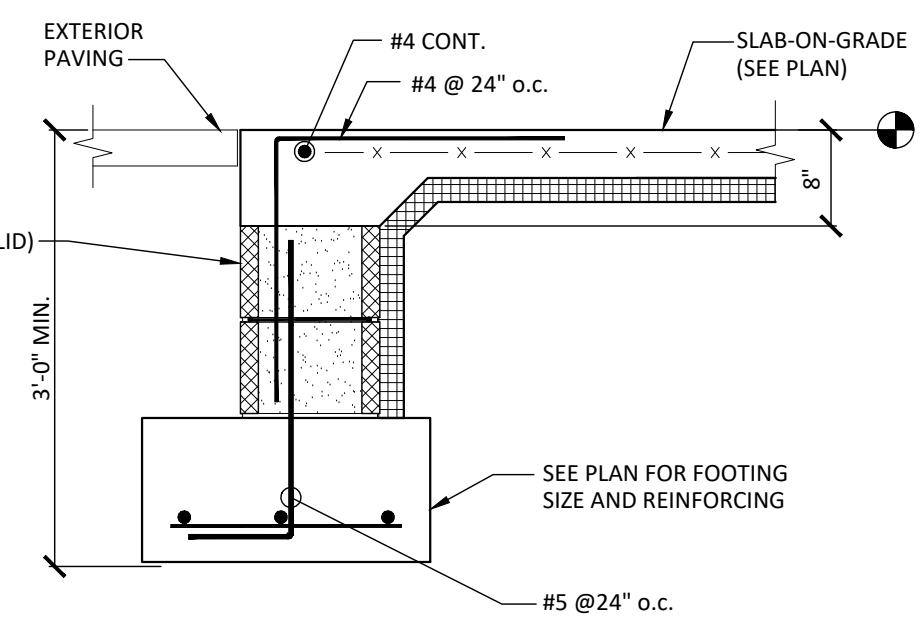
CKS STRUCTURES
 STRUCTURAL ENGINEERS
 CKS STRUCTURES, INC.
 280 N. PROVIDENCE RD., SUITE 105 MEDIA, PA 19063
 PHONE: 484-444-2329 FAX: 484-444-2331
 CKS PROJECT NO.: 138.18.005

ISSUE FOR BID
 9-6-18

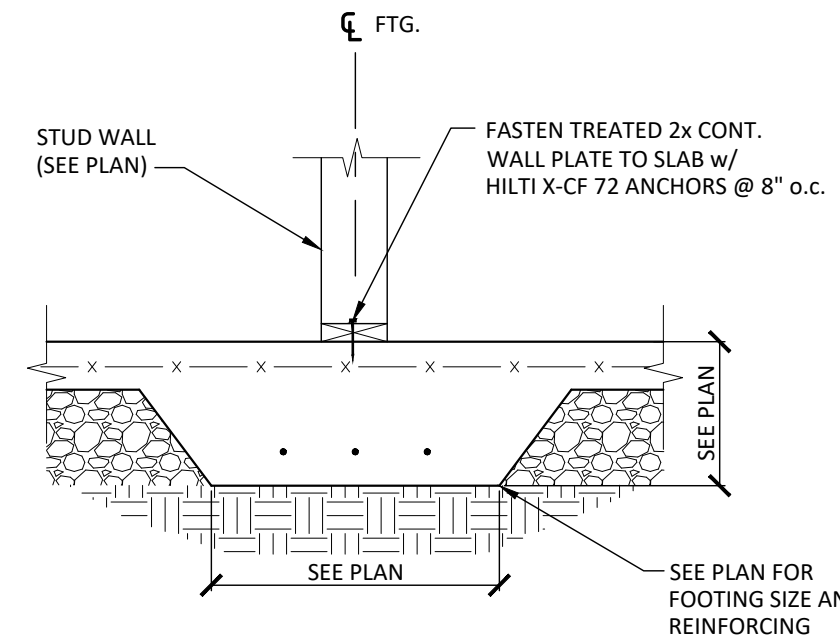
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 DWG. NO. **S101**
 DRAWN BY: BJP APPROVED BY: RIM
 SCALE: SEE PLAN JOB#: 1610-021



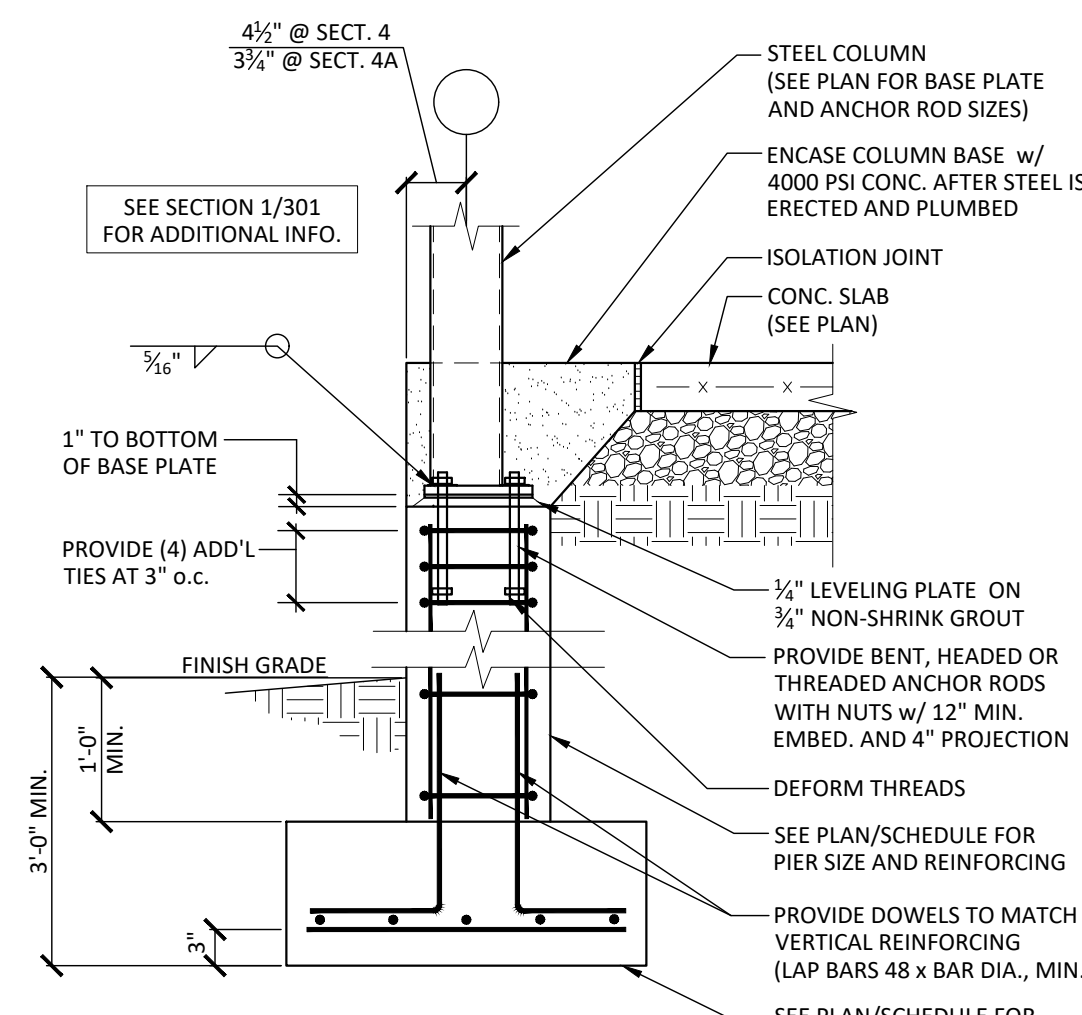
1 1A SECTION
SCALE: 3/4"=1'-0"



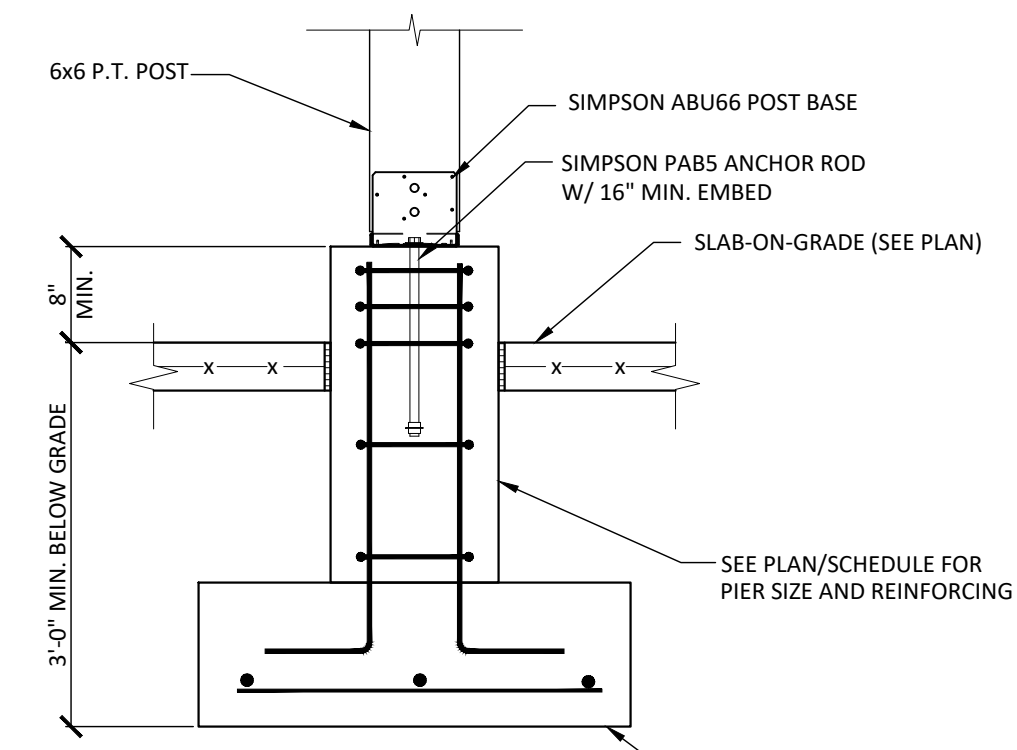
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SCALE: 3/4"=1'-0"



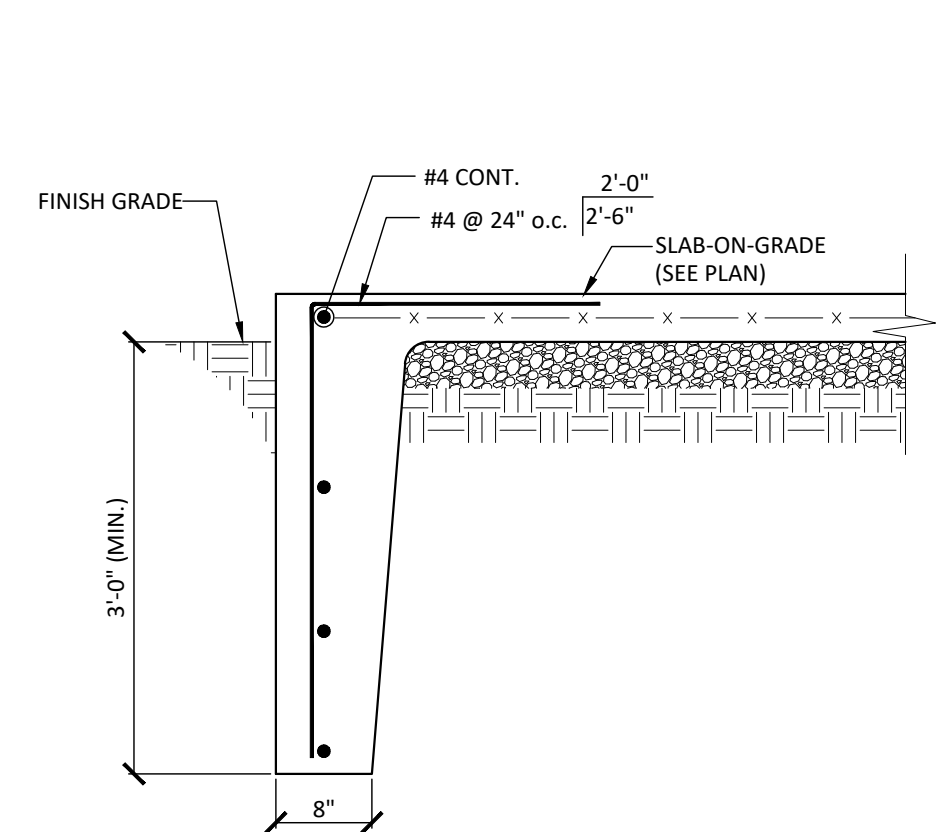
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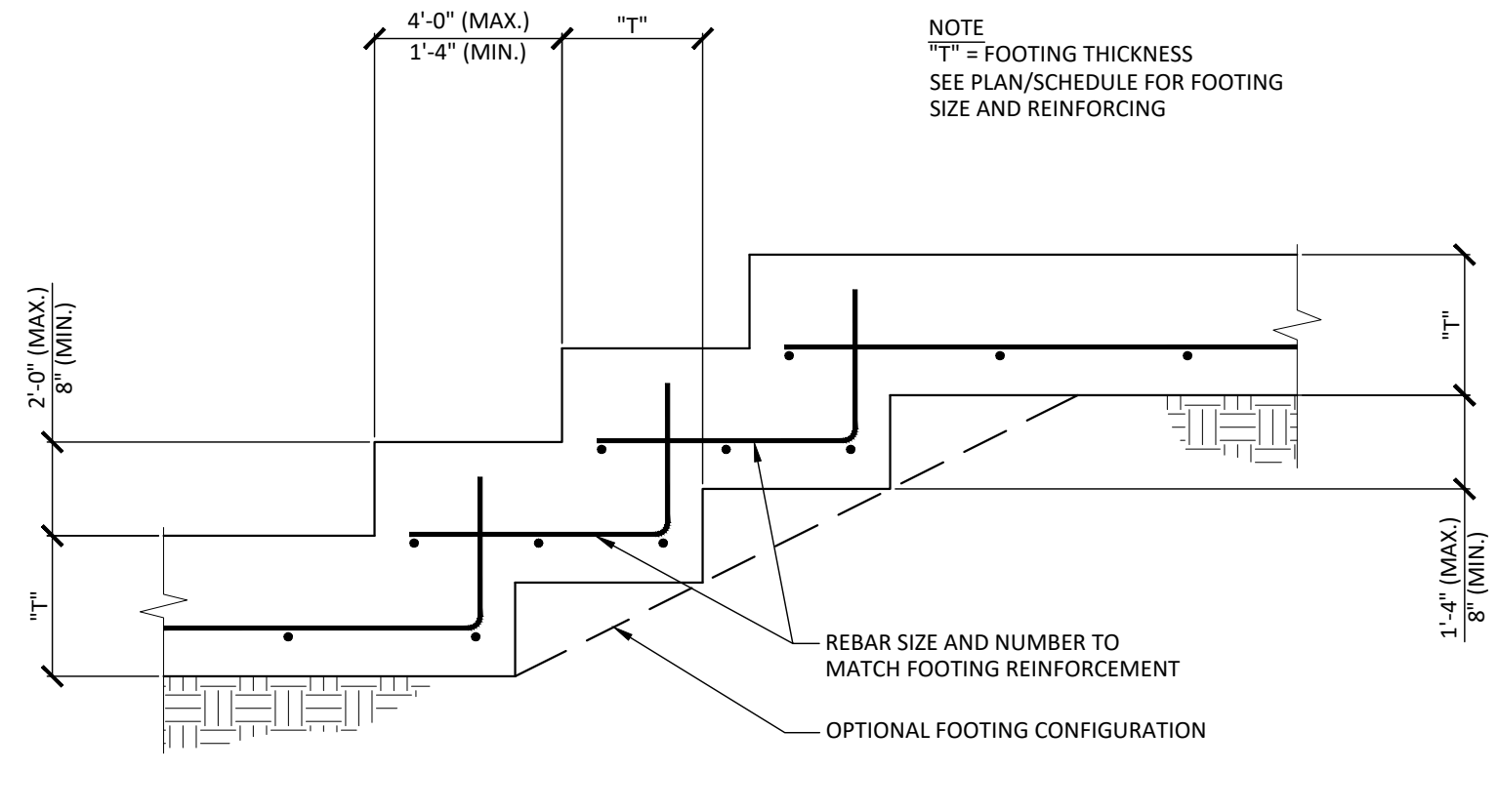
4 4A SECTION
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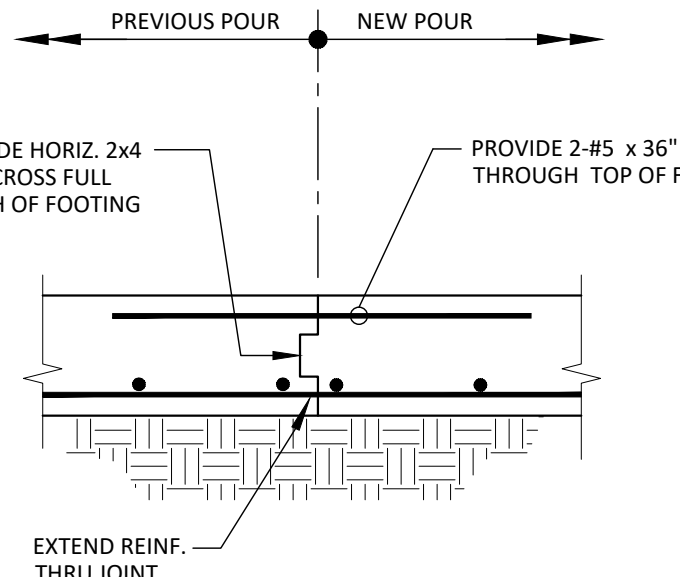
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SCALE: 3/4"=1'-0"



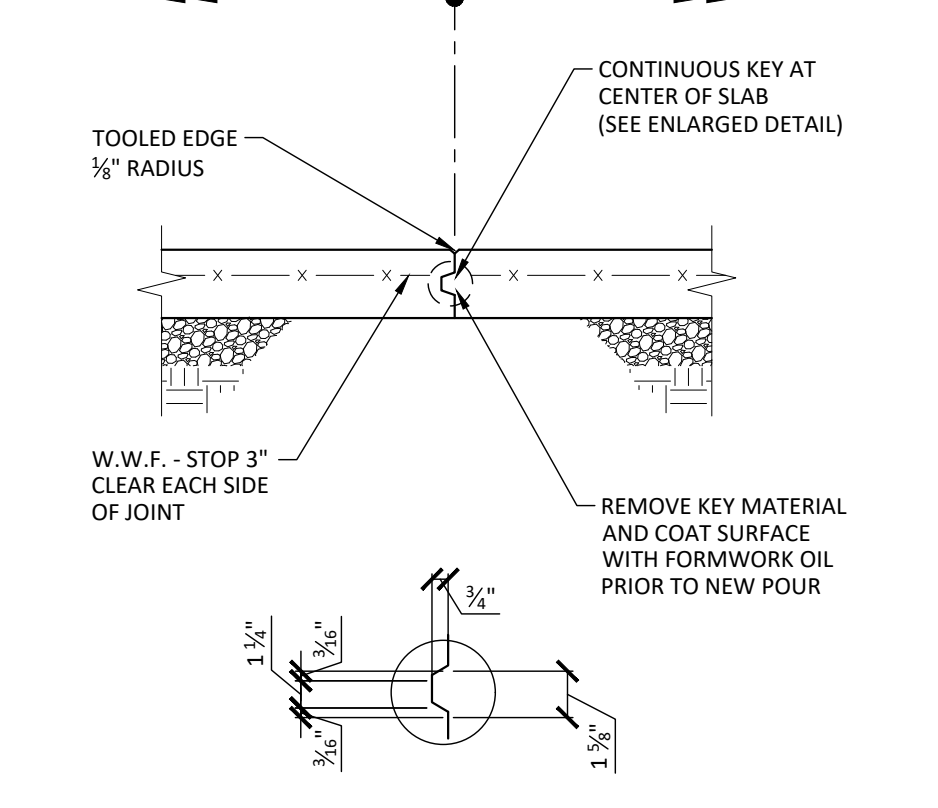
A TYPICAL DETAIL TURNED DOWN SLAB
SCALE: 3/4"=1'-0"



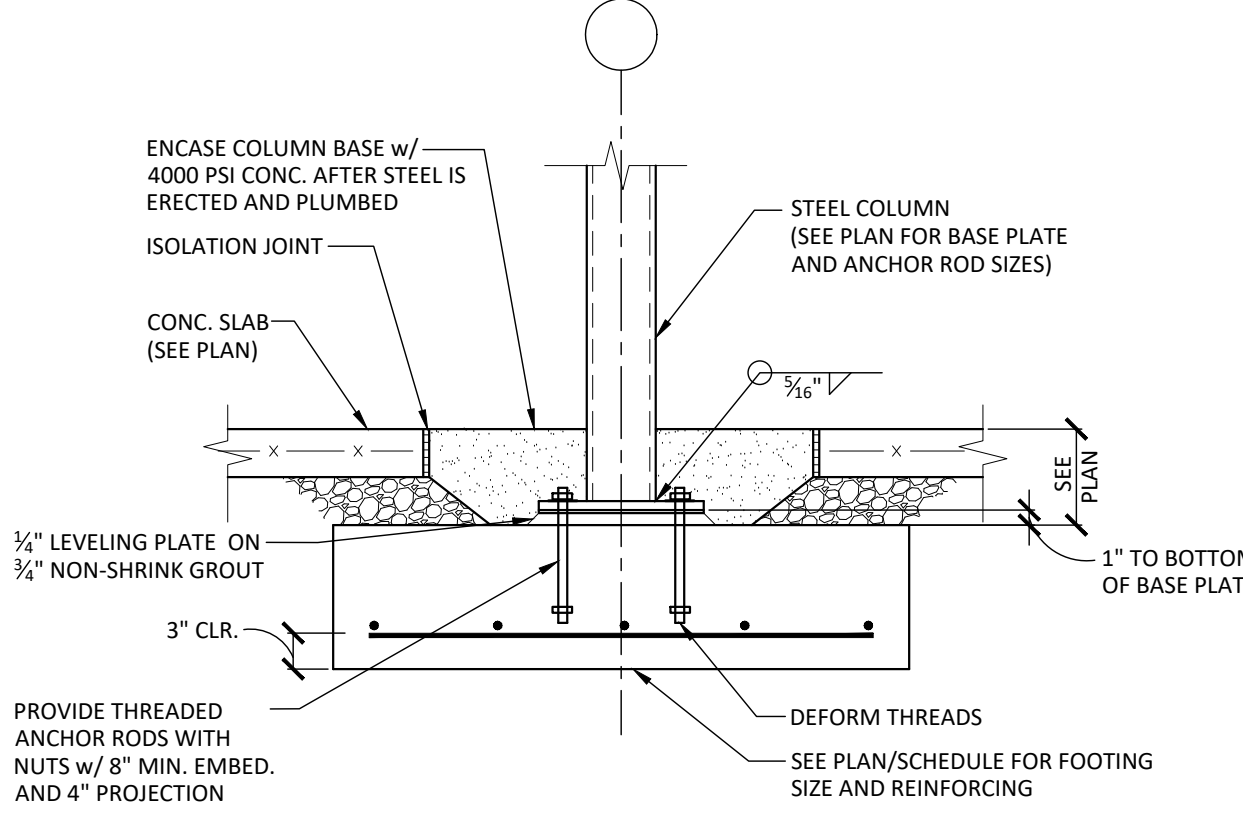
B TYPICAL STEPPED FOOTING DETAIL
SCALE: 3/4"=1'-0"



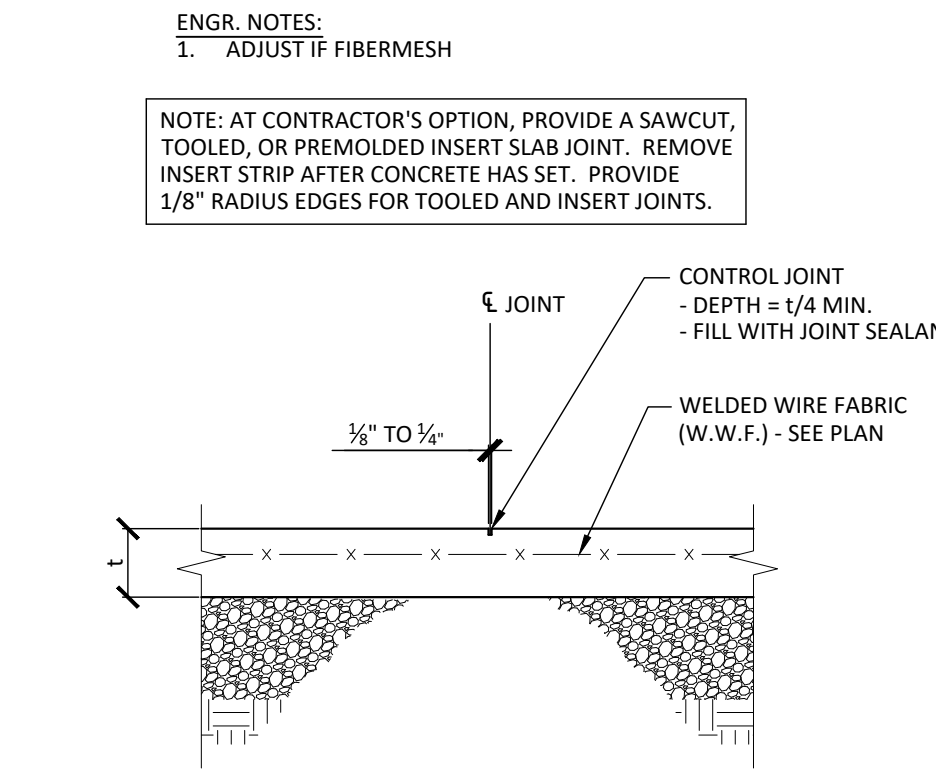
C TYPICAL FOOTING CONSTRUCTION JOINT DETAIL
SCALE: 3/4"=1'-0" LOCATE AS REQUIRED



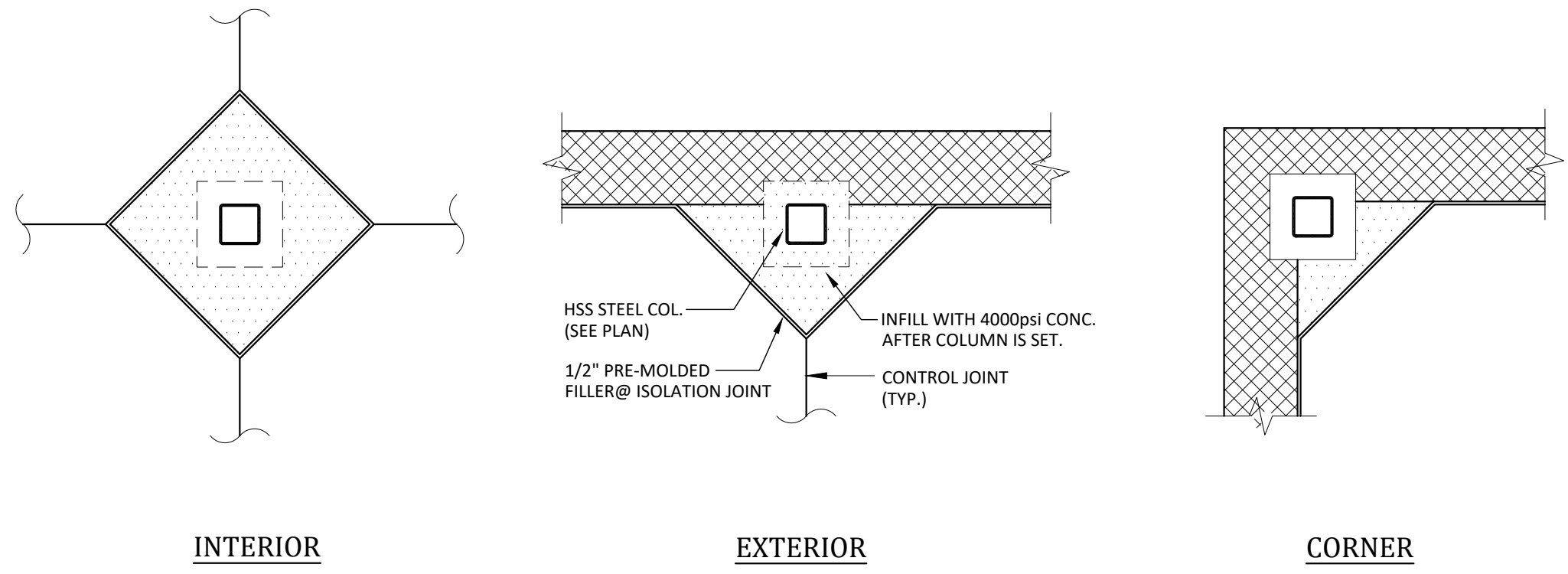
D TYPICAL SLAB CONSTRUCTION JOINT
SCALE: 3/4"=1'-0" LOCATE AS REQUIRED



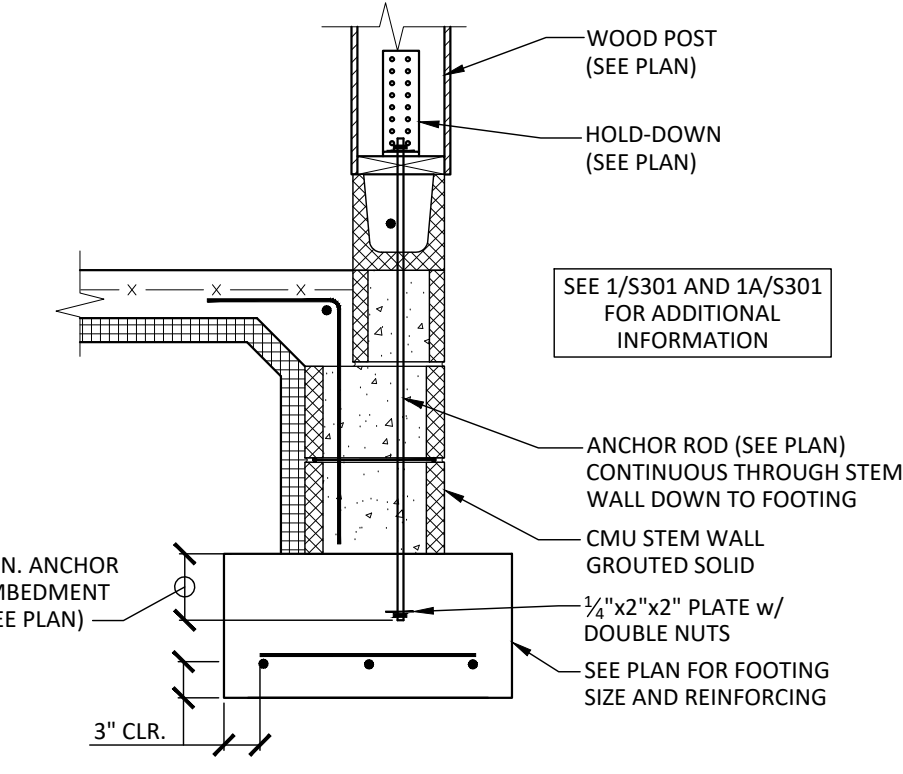
E TYPICAL DETAIL HSS COL. w/o PIER
SCALE: 3/4"=1'-0"



F TYPICAL SLAB CONTROL JOINT
SCALE: 3/4"=1'-0" LOCATE AT 15'-0" o.c., MAX.

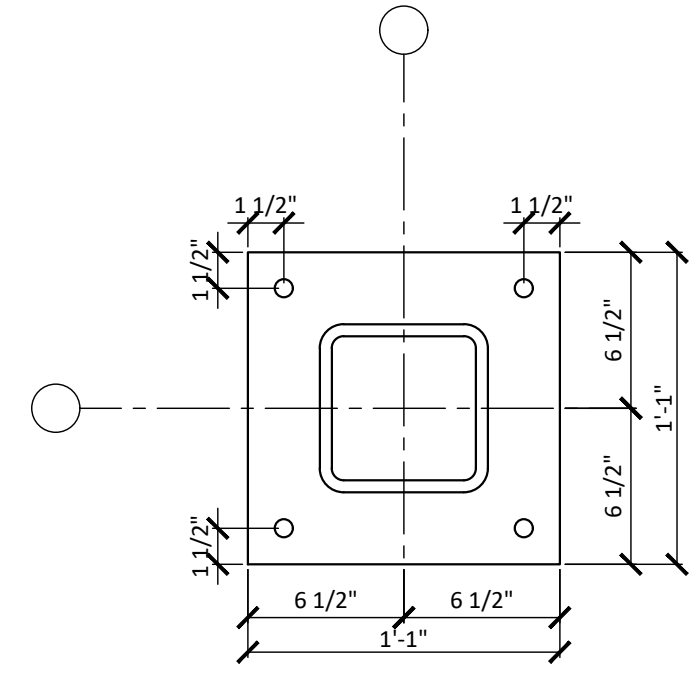


G TYPICAL DETAILS HSS COLUMN ISOLATION JOINTS
SCALE: 3/4"=1'-0"

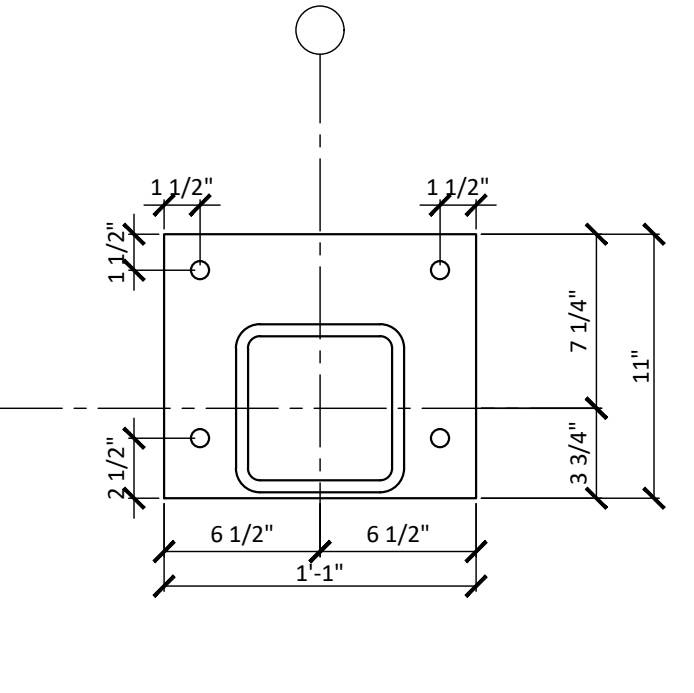


H SECTION
SCALE: 3/4"=1'-0"

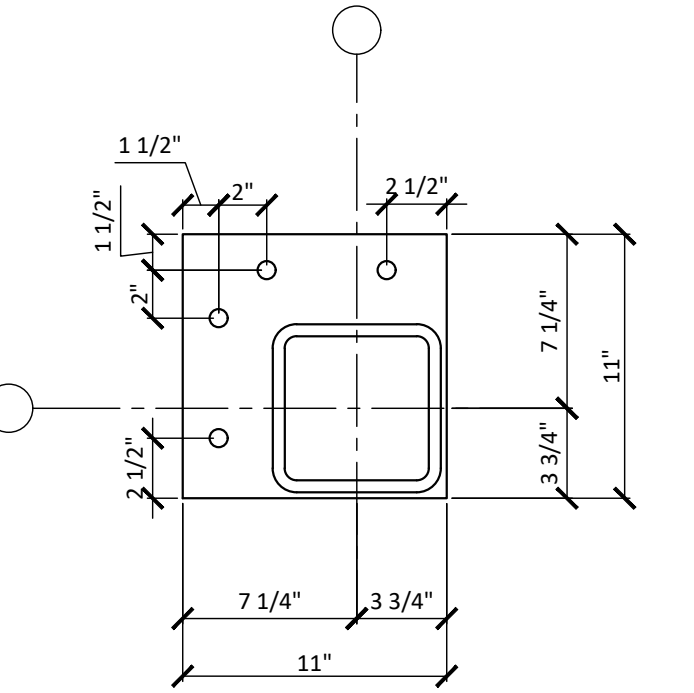
ENGR. NOTES:
1. ADJUST IF FIBERMESH
NOTE: AT CONTRACTOR'S OPTION, PROVIDE A SAWCUT, TOOLED, OR PRE-MOLDED INSERT SLAB JOINT. REMOVE INSERT STRIP AFTER CONCRETE HAS SET. PROVIDE 1/8" RADIUS EDGES FOR TOOLED AND INSERT JOINTS.



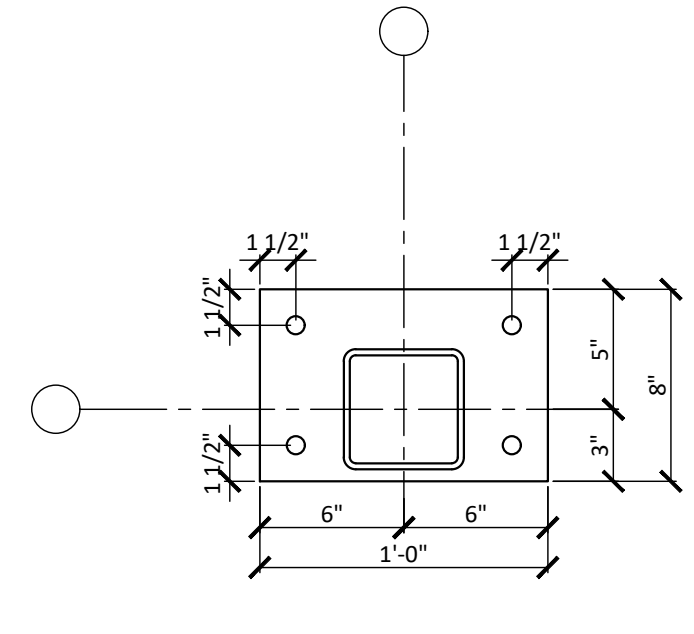
C1 BASE PLATE DETAIL
SCALE: 1-1/2"=1'-0"



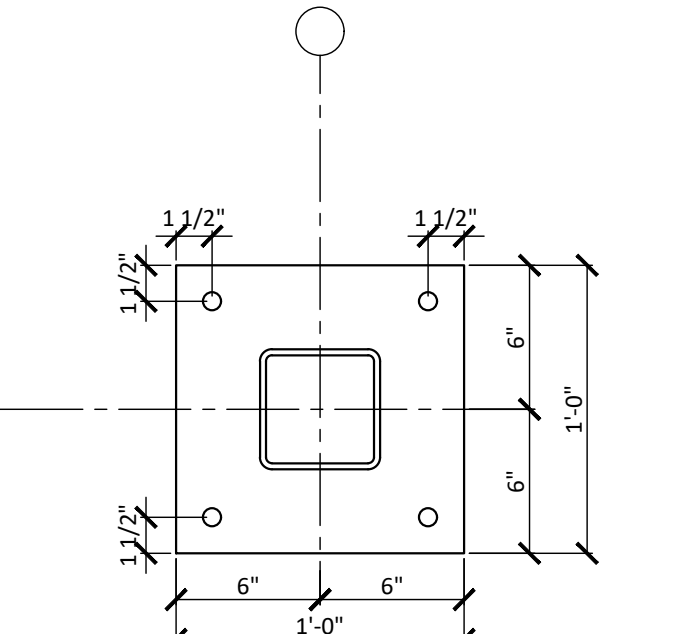
C1A BASE PLATE DETAIL
SCALE: 1-1/2"=1'-0"



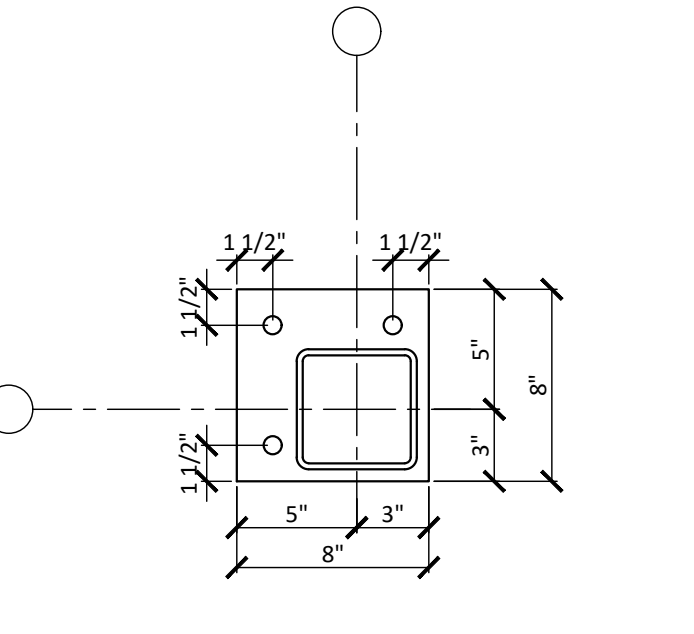
C1B BASE PLATE DETAIL
SCALE: 1-1/2"=1'-0"



C2 C3A BASE PLATE DETAIL
SCALE: 1-1/2"=1'-0"



C3 BASE PLATE DETAIL
SCALE: 1-1/2"=1'-0"



C3B BASE PLATE DETAIL
SCALE: 1-1/2"=1'-0"

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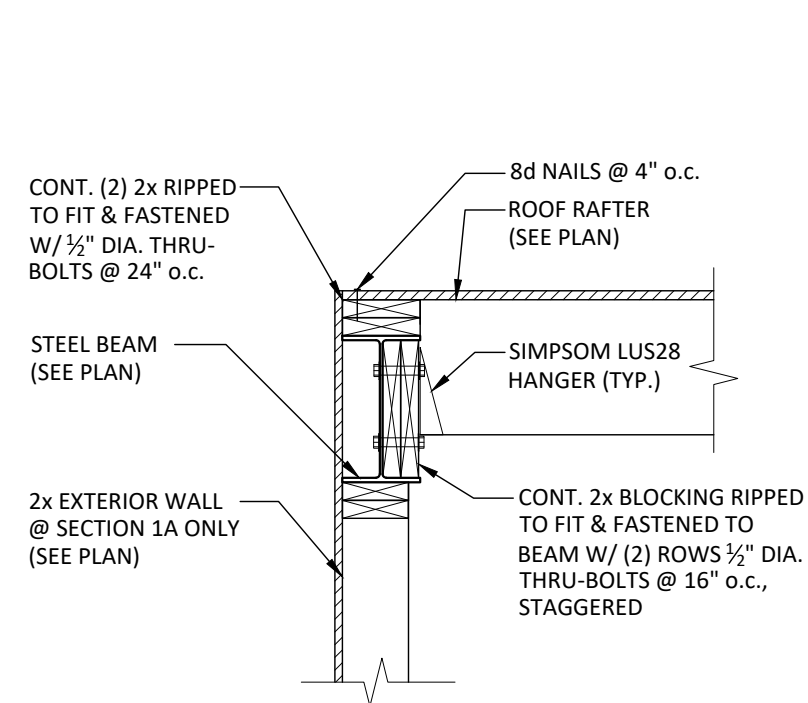
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707 ROUTE 9 NORTH, CAPE MAY COURT
HOUSE, NJ 08210

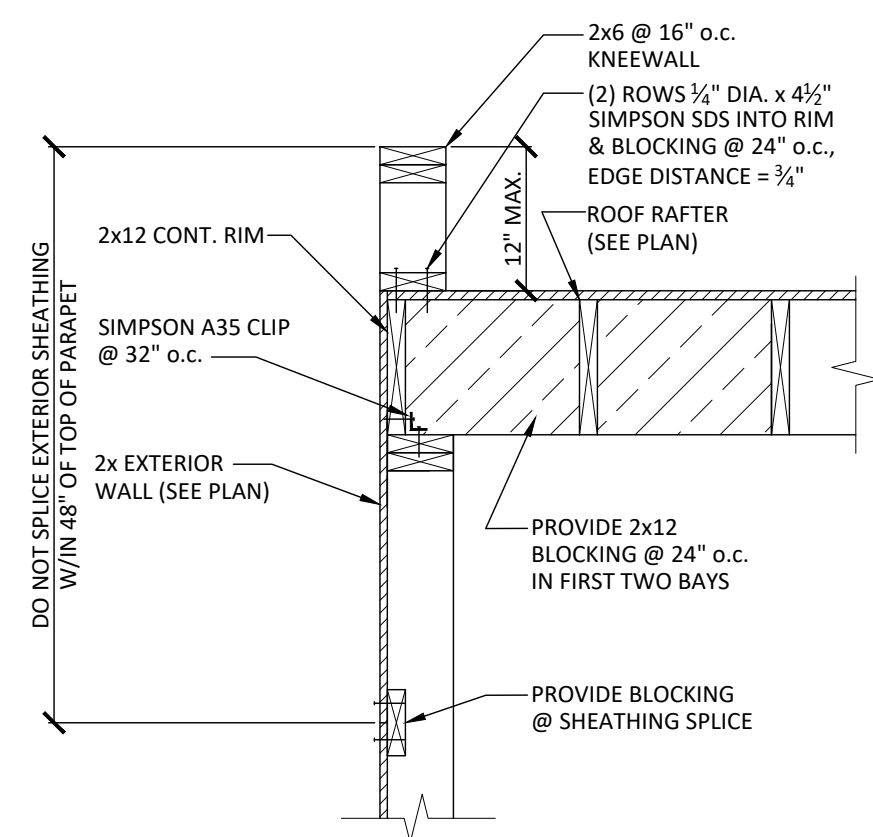
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DWG. NO. **S301**
DRAWN BY: BJP APPROVED BY: RJM
SCALE: SEE PLAN JOB#: 1610-021

CKS STRUCTURES
STRUCTURAL ENGINEERS
CKS STRUCTURES, INC.
280 N. PROVIDENCE RD., SUITE 105 MEDIA, PA 19063
PHONE: 484-444-2329 FAX: 484-444-2331
CKS PROJECT NO.: 138.18.005

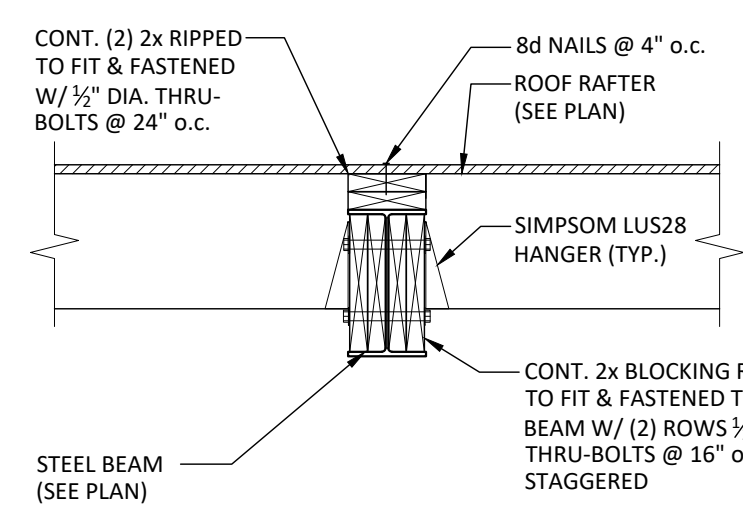
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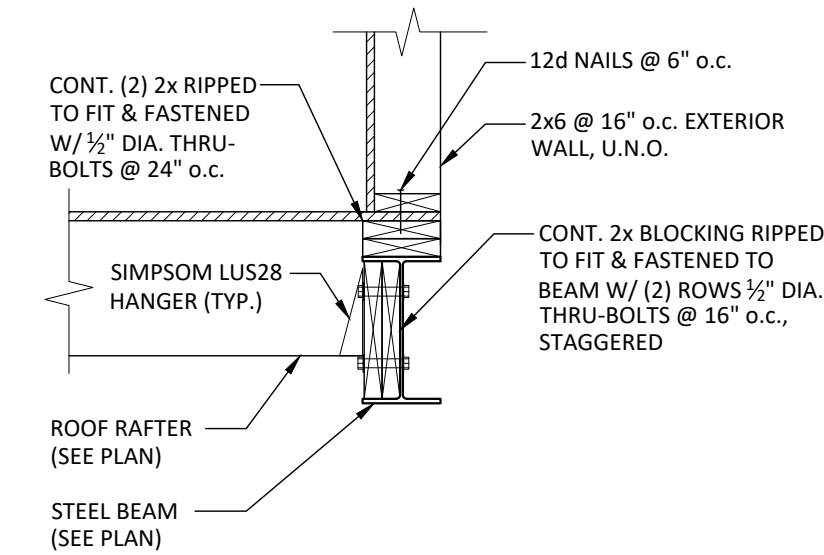
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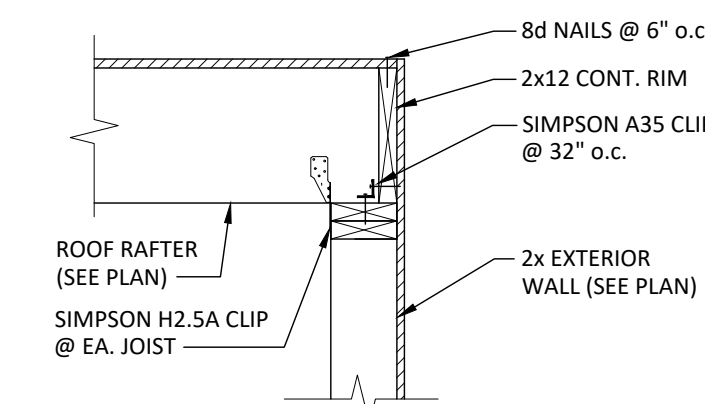
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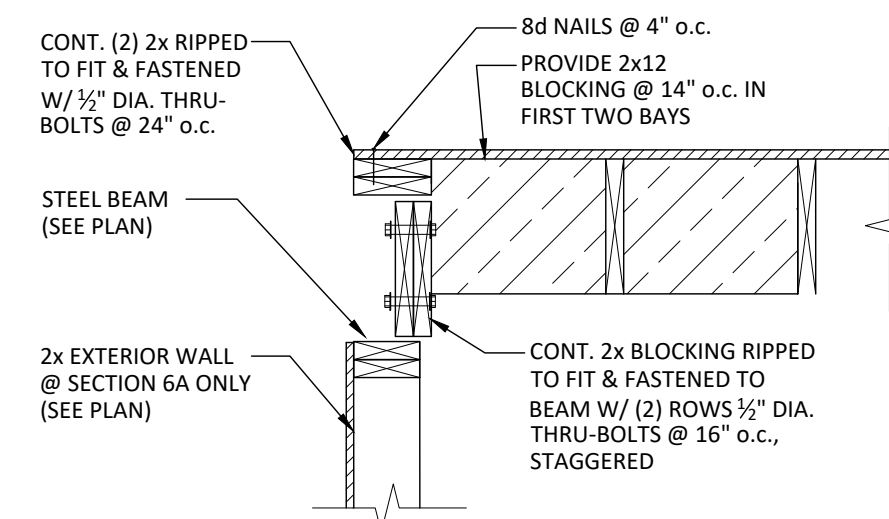
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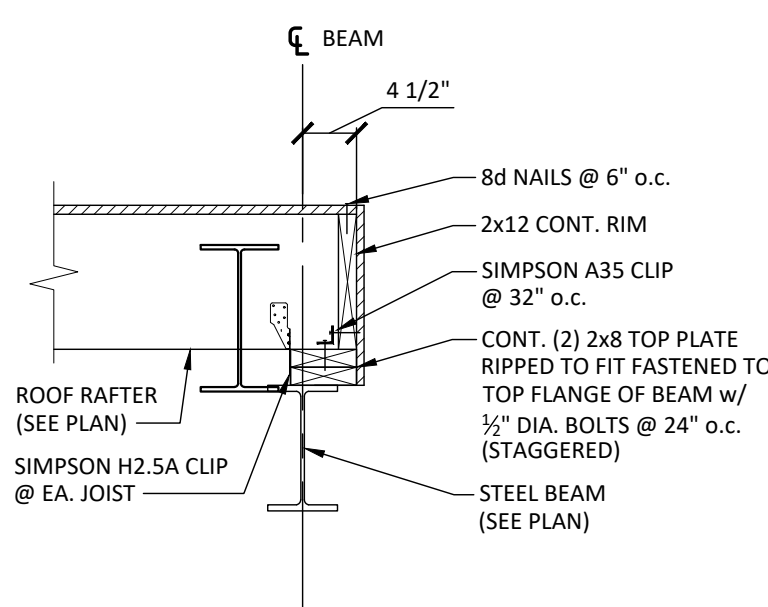
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SCALE: 3/4"=1'-0"



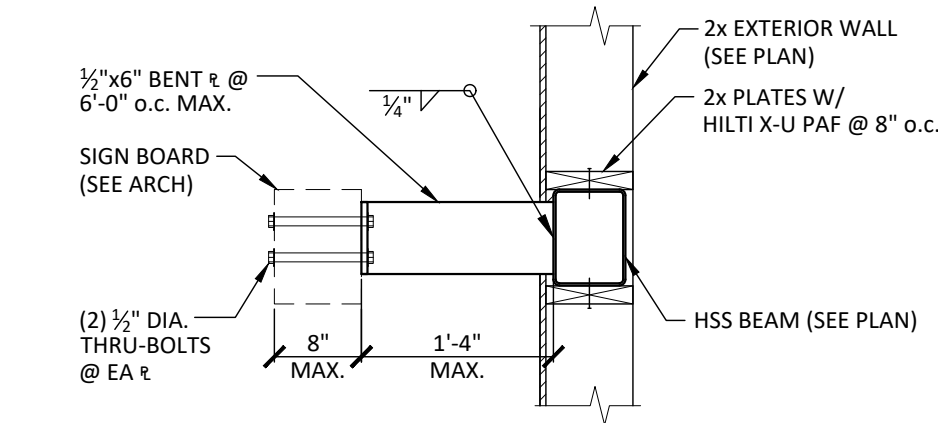
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SCALE: 3/4"=1'-0"



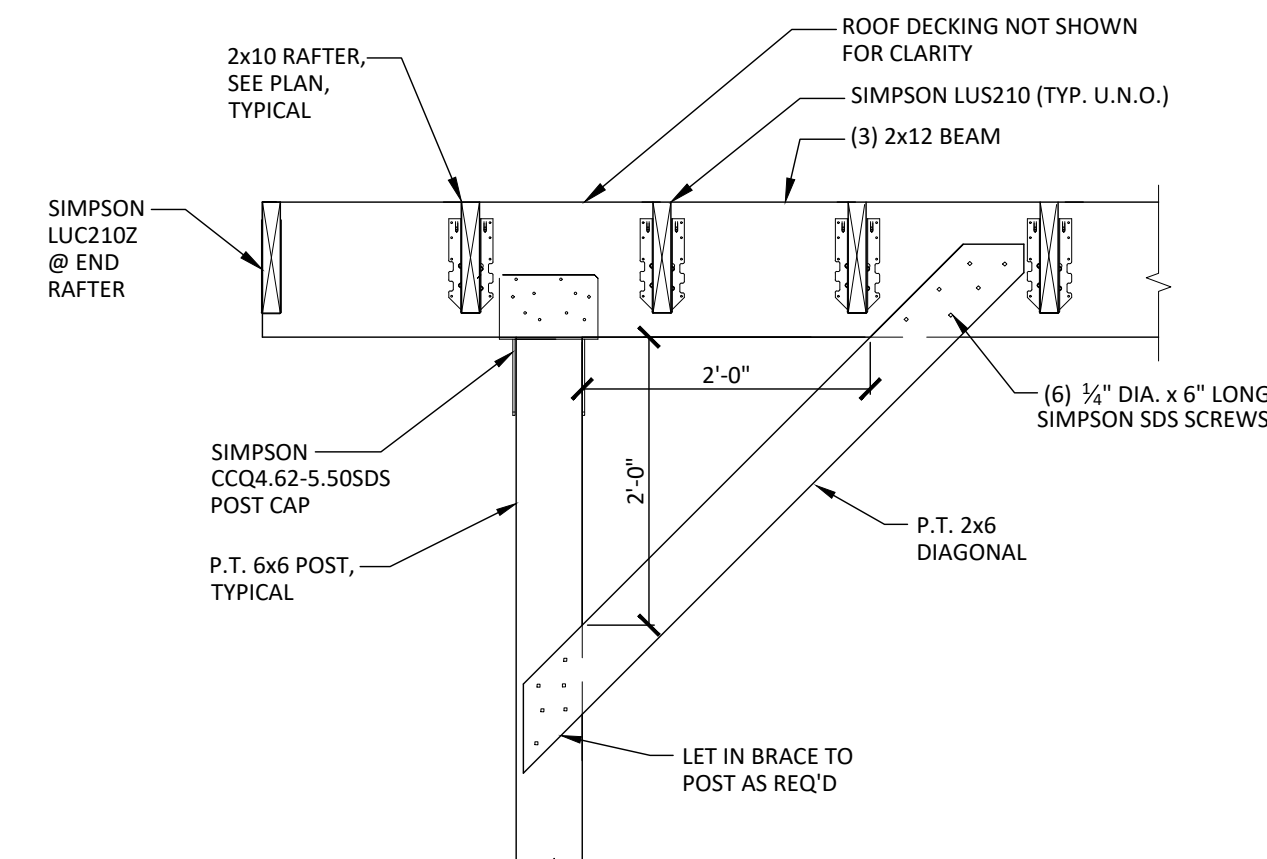
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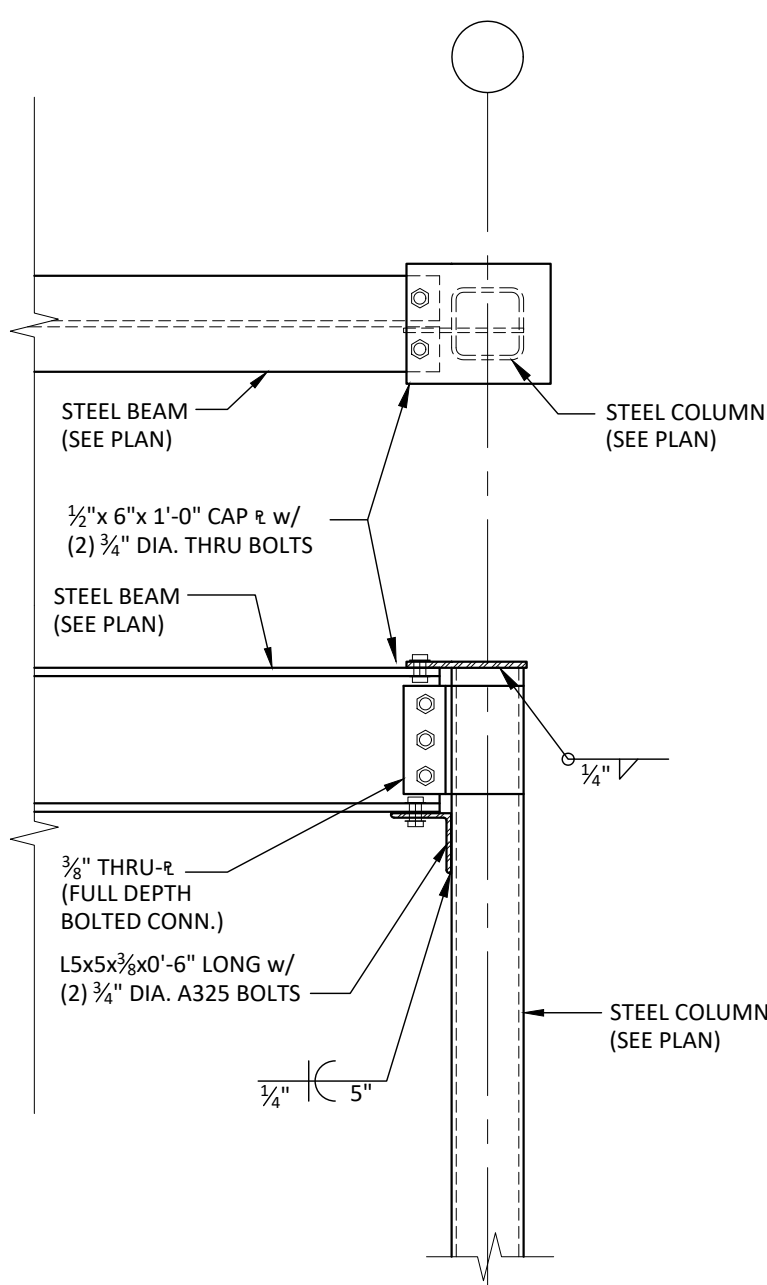
7 SECTION
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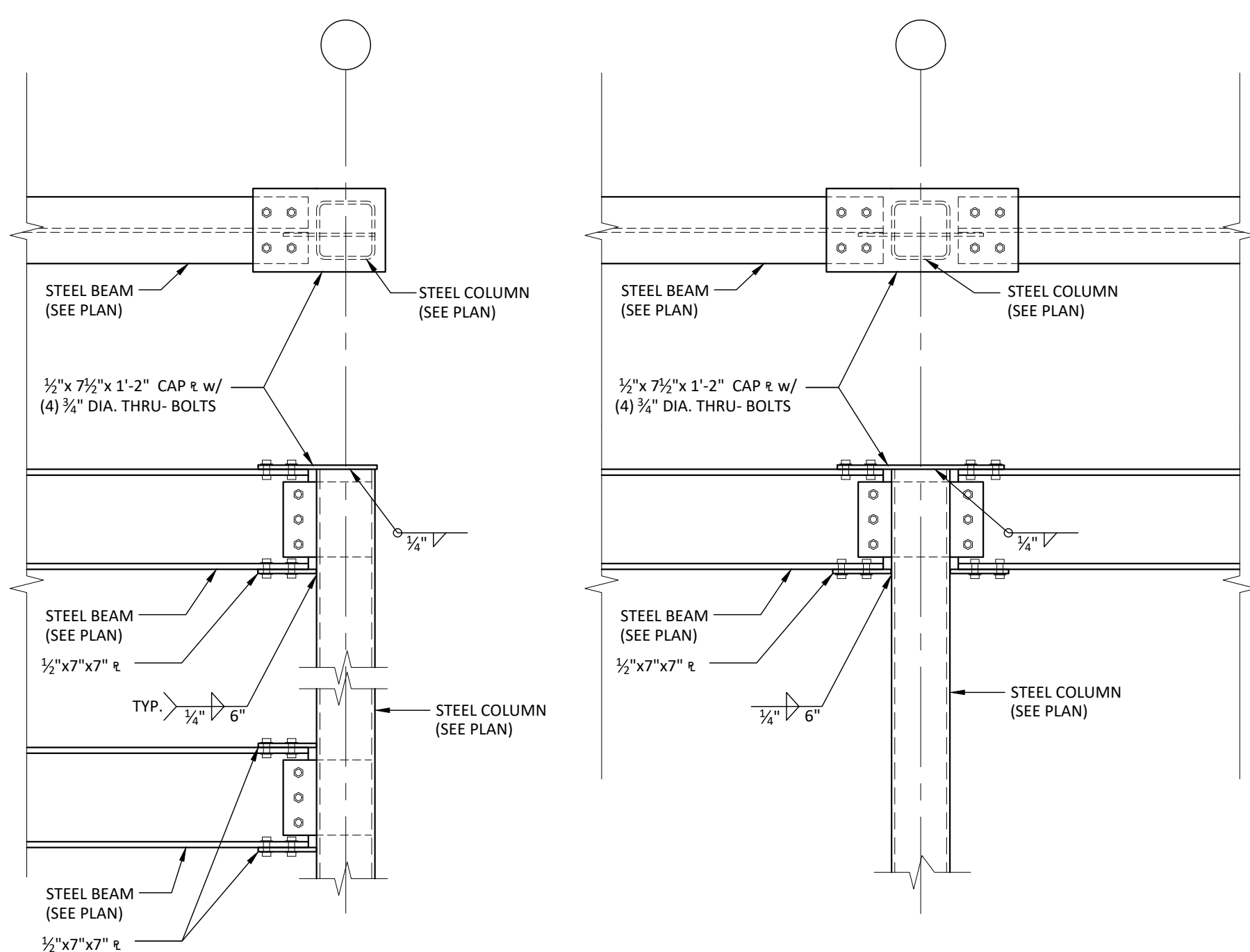
8 SECTION
SCALE: 3/4"=1'-0"



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



A MOMENT CONN. DETAIL
SCALE: 3/4"=1'-0"



B MOMENT CONN. DETAIL
SCALE: 3/4"=1'-0"

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STRUCTURAL ENGINEERS

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280 N. PROVIDENCE RD., SUITE 105 MEDIA, PA 19063
PHONE: 484-444-2329 FAX: 484-444-2331

CKS PROJECT NO.: 138.18.005

ISSUE FOR BID
9-6-18

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24GE04505000

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STRUCTURAL ENGINEER:
MULHERN CONSULTING ENGINEERS
321 SOUTH YORK ROAD
HATBORO, PA 19040

CKS STRUCTURES, INC.
280 N. PROVIDENCE RD. SUITE 105
MEDIA, PA 19063

**CAPE MAY COUNTY ZOO SAFARI
CAFE 2 NEW RETAIL FOOD BUILDING**
707 ROUTE 9 NORTH, CAPE MAY COURT
HOUSE, NJ 08210

FRAMING DETAILS
DWG. NO. **S302**
DRAWN BY: BJP APPROVED BY: RJM
SCALE: SEE PLAN JOB#: 1610-021

TITLE:
FRAMING DETAILS
DWG. NO. **S302**

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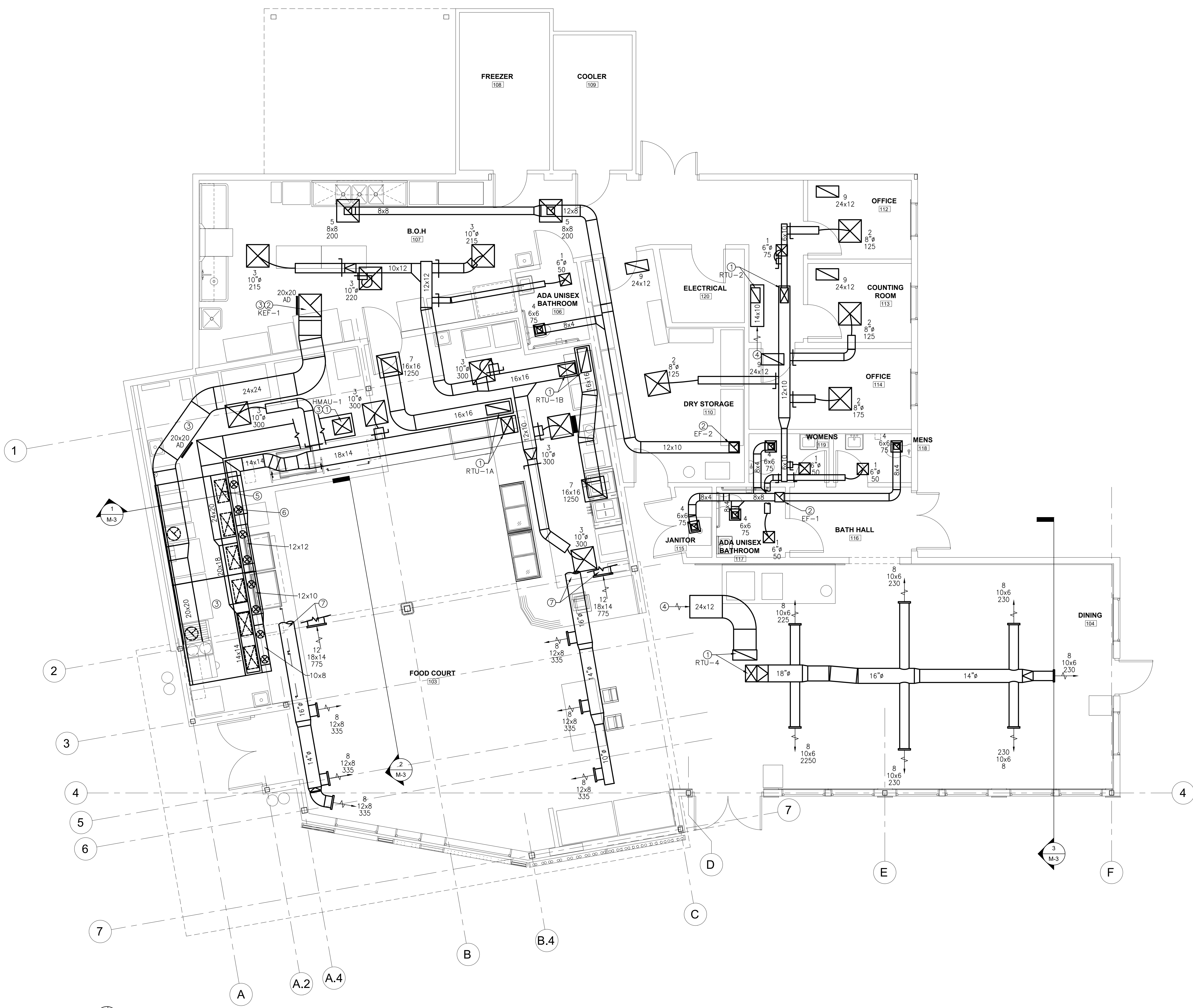
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 321 SOUTH YORK ROAD
 HATBORO, PA 19040

STRUCTURAL ENGINEER:
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 280 N. PROVIDENCE RD, SUITE 105
 MEDIA, PA 19063

SHEET NOTES:

- ① SUPPLY AND RETURN DUCT FROM RTU ABOVE.
- ② EXHAUST DUCT UP TO FAN ABOVE.
- ③ KITCHEN GREASE HOODS, GREASE DUCTS, MAKEUP AIR DUCTS, EXHAUST FANS, MAKEUP AIR FANS, ETC. TO BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- ④ OPEN RETURN DUCT WITH SCREEN.
- ⑤ CONNECTION FROM HMAU-1 SUPPLY DUCT TO HOOD (TYPICAL FOR 6 LOCATIONS) PROVIDE VOLUME DAMPER FOR BALANCING.
- ⑥ CONNECTION FROM RTU-1A SUPPLY DUCT TO HOOD (TYPICAL FOR 8 LOCATIONS) PROVIDE VOLUME DAMPER FOR BALANCING.
- ⑦ SEE ROOF PLAN FOR CONTINUATION



① FIRST FLOOR MECHANICAL PLAN
 1/4" = 1'-0"

REVIEW SET
 9-14-18

**CAPE MAY COUNTY ZOO SAFARI
 CAFE 2 NEW RETAIL FOOD BUILDING**
 707 ROUTE 9 NORTH, CAPE MAY COURT
 HOUSE, NJ 08210

TITLE:
MECHANICAL FLOOR PLAN
 DWG. NO. **M-1**
 DRAWN BY: PIS APPROVED BY: PIS
 SCALE: 1/4" = 1'-0" JOB#: 1610-021

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 MEDIA, PA 19063

**CAPE MAY COUNTY ZOO SAFARI
 CAFE 2 NEW RETAIL FOOD BUILDING**
 707 ROUTE 9 NORTH, CAPE MAY COURT
 HOUSE, NJ 08210

TITLE:
MECHANICAL ROOF PLAN
 DWG. NO.
M-2

DRAWN BY: PIS APPROVED BY: PIS
 SCALE: 1/4" = 1'-0" JOB#: 1610-021

LEGEND:

 REQUIRED CLEARANCE FOR RTU MAINTENANCE AND OPERATION

SHEET NOTES:

- ① MAINTAIN MINIMUM 10'-0" CLEARANCE FROM OUTSIDE AIR INTAKE TO EXHAUST DISCHARGES, VENTS, ETC.
- ② NO POINT OF THIS EQUIPMENT IS ALLOWED WITHIN 10'-0" OF THE ROOF EDGE.
- ③ FOR CONTINUATION SEE FIRST FLOOR PLAN



① ROOF MECHANICAL PLAN
 1/4" = 1'-0"

REVIEW SET
 9-14-18

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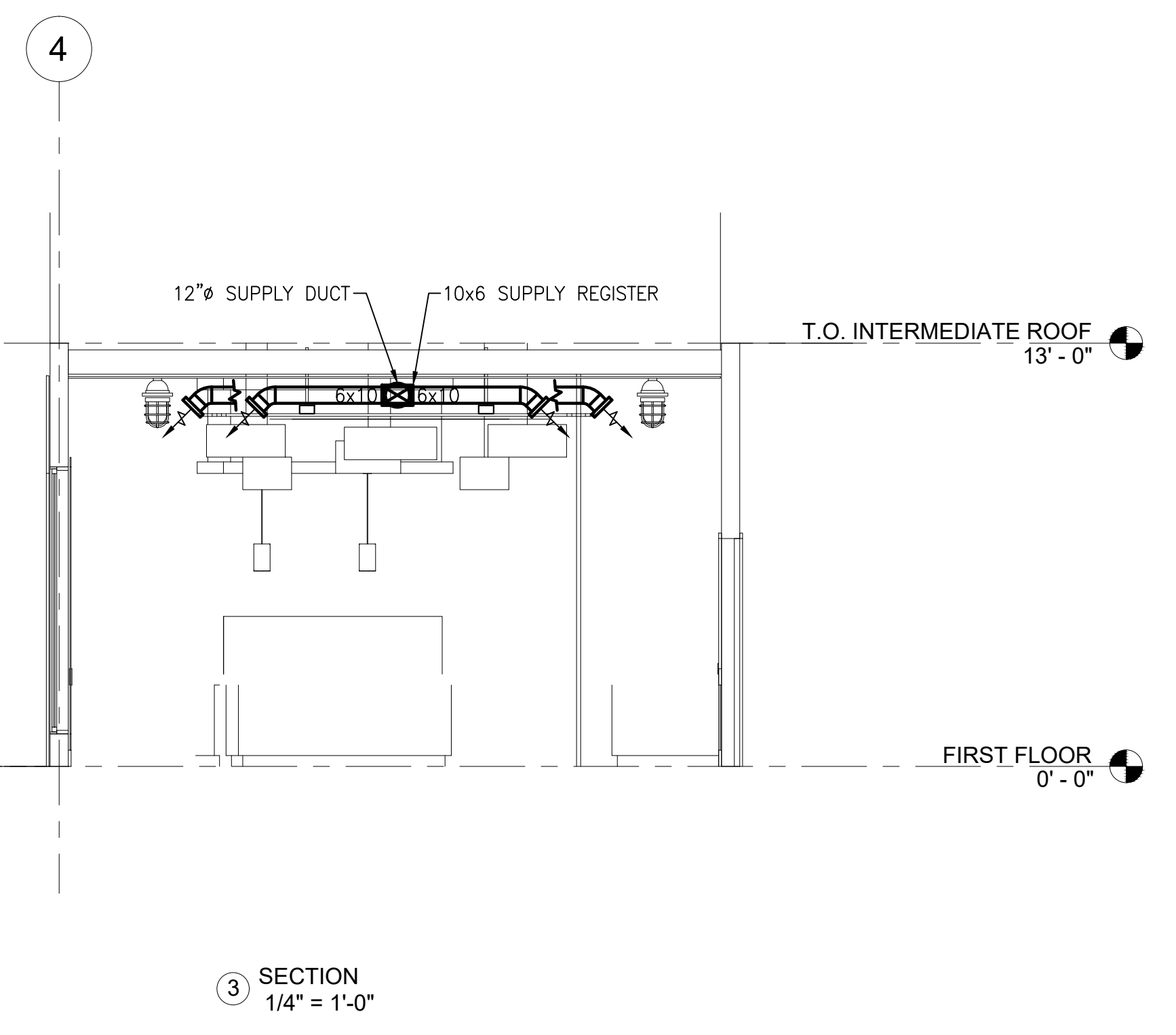
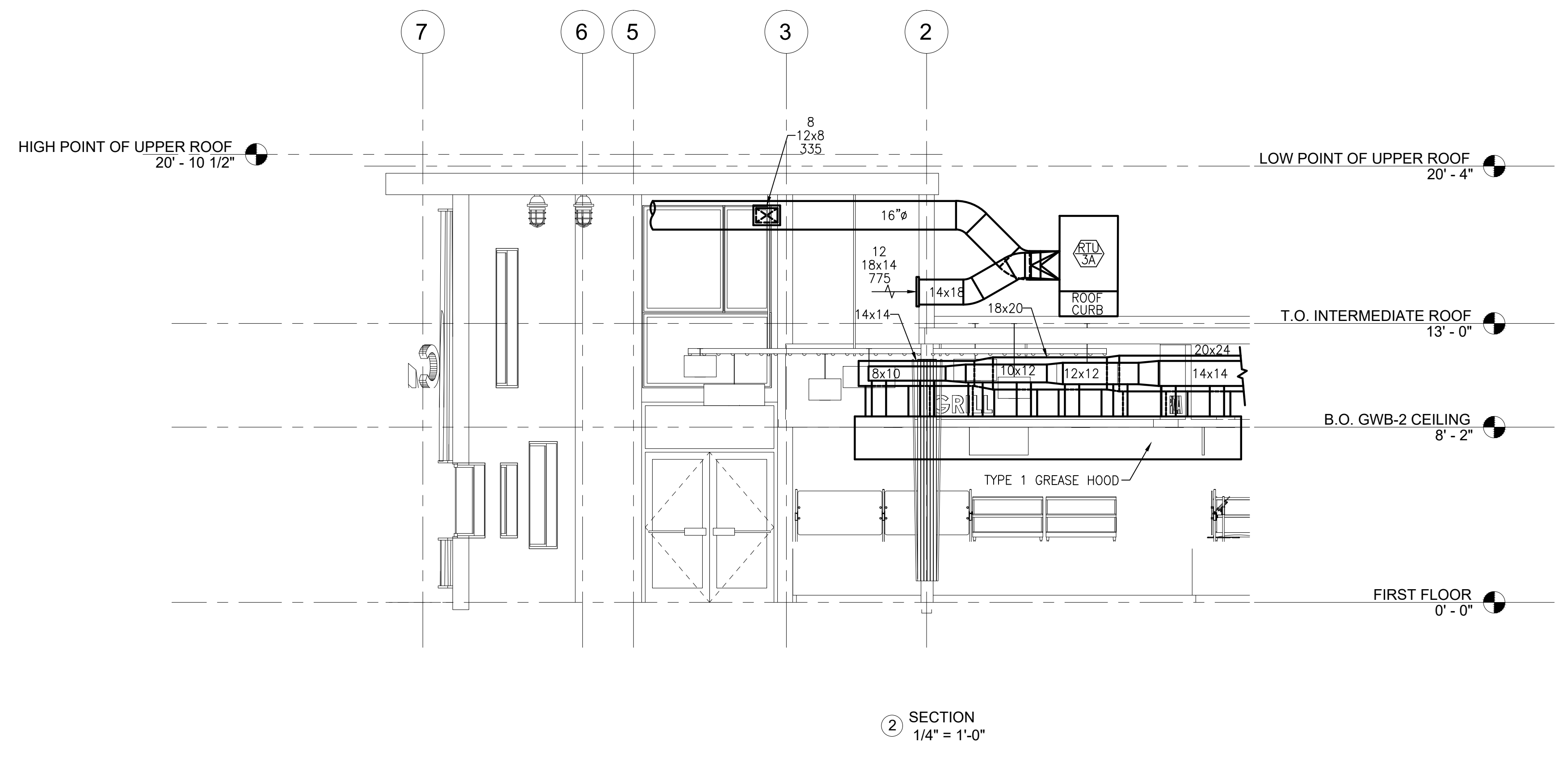
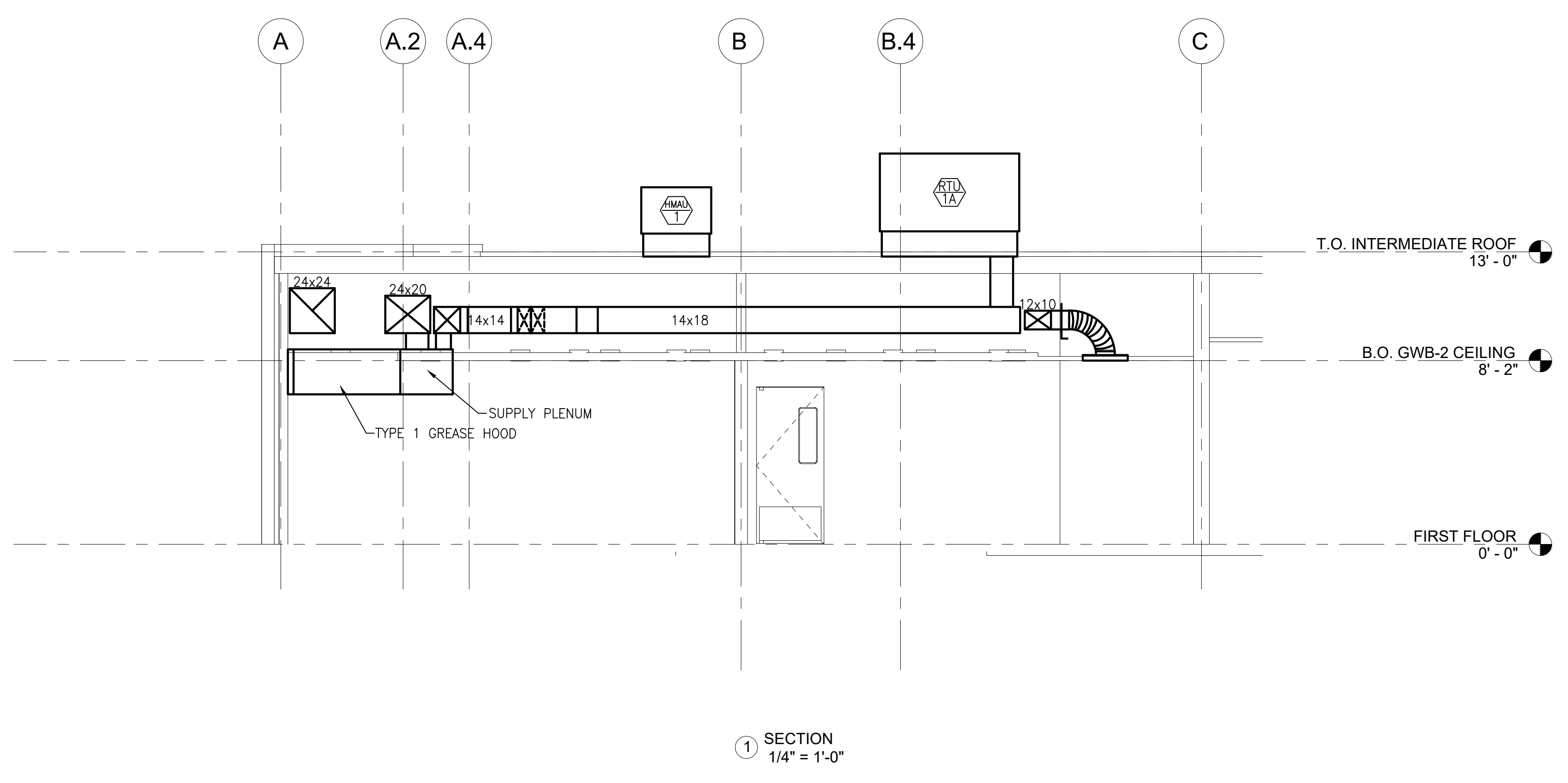
MULHERN CONSULTING ENGINEERS
 321 SOUTH YORK ROAD
 HATBORO, PA 19040

STRUCTURAL ENGINEER:
CKS STRUCTURES, INC.
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**CAPE MAY COUNTY ZOO SAFARI
 CAFE 2 NEW RETAIL FOOD BUILDING**
 707 ROUTE 9 NORTH, CAPE MAY COURT
 HOUSE, NJ 08210

TITLE:
MECHANICAL SECTIONS
 DWG. NO. **M-3**
 DRAWN BY: PIS APPROVED BY: PIS
 SCALE: 1/4" = 1'-0" JOB#: 1610-021

REVIEW SET
 9-14-18



PACKAGED ROOFTOP UNIT DATA

NUMBER	SERVING	NOMINAL TONS	EER	SUPPLY AIR FAN			OUTSIDE AIR (CFM)	COOLING					HEATING - NATURAL GAS				UNIT ELECTRICAL			FILTERS		TOTAL OPERATING WT/LBS	MANUFACTURER/MODEL NUMBER	COMMENTS
				CFM	ESP (WC)	HP		AIR ON (°F)			EAT	LAT	GAS		V-φ-Hz	MCA	MOCP	TYPE	MERV					
								DB	WB	TOTAL MBH			SENSIBLE MBH	AMBIENT AIR (°F)						MBH INPUT	MBH OUTPUT			
RTU-1A	SERVING/BACK OF HOUSE	4	13	1,600	0.50	1	350	80	67	50.6	38.1	95	56.9	109.0	82/115	66/90	208-3-60	24	30	THROWAWAY	8	800	CARRIER 4BHC-05	1, 2, 3, 5
RTU-1B	SERVING/BACK OF HOUSE	4	13	1,600	0.50	1	350	80	67	50.6	38.1	95	56.9	109.0	82/115	66/90	208-3-60	24	30	THROWAWAY	8	800	CARRIER 4BHC-05	1, 2, 3, 5
RTU-2	OFFICE/DRY STORAGE/RESTROOMS	2	13.2 SEER	800	0.50	1/2	175	80	67	23.0	16.8	95	58.8	114.3	60	48	208/230-1-60	21.3	30	THROWAWAY	8	450	CARRIER 4BES-24	1, 2, 3, 4
RTU-3A	FOOD COURT (CUSTOMER AREA)	2-1/2	13.5 SEER	1,000	0.50	1/2	260	80	67	28.6	21.8	95	58.0	102.4	60	48	208-3-60	15.8	20	THROWAWAY	8	450	CARRIER 4BES-30	1, 2, 3, 4
RTU-3B	FOOD COURT (CUSTOMER AREA)	2-1/2	13.5 SEER	1,000	0.50	1/2	260	80	67	28.6	21.8	95	58.0	102.4	60	48	208-3-60	15.8	20	THROWAWAY	8	450	CARRIER 4BES-30	1, 2, 3, 4
RTU-4	DINING	4	13	1,600	0.50	1	375	80	67	50.6	38.1	95	56.9	109.0	82/115	66/90	208-3-60	24	30	THROWAWAY	8	800	CARRIER 4BHC-05	1, 2, 3, 5

1. DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF
2. DISCONNECT SWITCH, HOT GAS BYPASS
3. 14" ROOF CURB
4. COMPRESSOR START KIT
5. MEDIUM STATIC DRIVE

FAN DATA

NUMBER	SYSTEM/SERVING	CFM	SP H ₂ O	FAN TYPE	FAN RPM	MOTOR			TOTAL OPERATING WT/LBS	MANUFACTURER/MODEL NUMBER	COMMENTS
						HP	RPM	V-φ-Hz			
EF-1	TOILET ROOMS/JANITOR	300	0.50	ROOF CENT	1,550	1/20	1,550	120-1-60	40	GREENHECK G-085-D	1, 2
EF-2	BACK OF HOUSE/TOILET ROOM	475	0.50	ROOF CENT	1,550	1/8	1,550	120-1-60	40	GREENHECK G-095-D	1, 2

1. WIRED TO TIMER
2. DISCONNECT SWITCH, ROOF CURB, BACKDRAFT DAMPER

DIFFUSER/REGISTER/GRILLE SCHEDULE

ITEM	TYPE	BLOW	MANUFACTURER AND MODEL	COMMENTS
1	CEILING DIFFUSER	4	TITUS TDC-AA, 12x12, 6x6 MODULE, 6" DUCT, WHITE	1, 2, 3
2	NOT USED			
3	CEILING DIFFUSER	4	TITUS TDC-AA, 24x24, 12x12 MODULE, 10" DUCT, WHITE	1, 2, 3
4	CEILING/DUCTED RET/EXH	-	TITUS 50F, 12x12, 6x6 DUCT, WHITE	1, 2
5	CEILING/DUCTED RET/EXH	-	TITUS 50F, 24x24, 8x8 DUCT, WHITE	1, 2
6	NOT USED			
7	CEILING/DUCTED RET/EXH	-	TITUS 50F, 24x24, 16x16 DUCT, WHITE	1, 2
8	DUCT/WALL SUPPLY REG	-	TITUS 300FL, WHITE	2, 4
9	CEILING OPEN RET GRILLE	-	TITUS 50F, 24x12, WHITE, CORE ONLY	1, 2
10	NOT USED			
11	NOT USED			
12	WALL RETURN GRILLE	-	TITUS 350FL, 18x14, 3/4" BLADE SPACING, 35° DEFLECTION	1, 2, 4
13	WALL RETURN GRILLE	-	TITUS 350FL, 24x16, 3/4" BLADE SPACING, 35° DEFLECTION	1, 2, 4

NOTES:

1. PROVIDE TRIM FOR LAY-IN CEILING OR DRYWALL AS REQUIRED.
2. STEEL CONSTRUCTION.
3. MAXIMUM FLEX DUCT LENGTH IS 8 FEET.
4. OPPOSED BLADE DAMPER

Ventilation Air Calculation (Per IMC 2015)

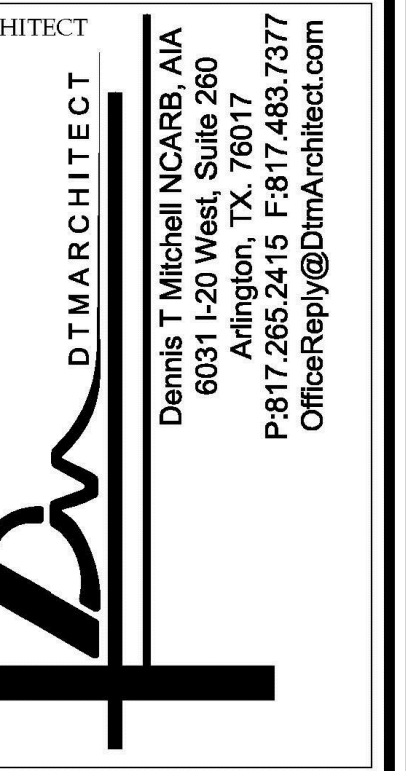
Room No.	Space	Area (SF)	Population (People/1,000 SF)	Outdoor Air (CFM/Person)	Outdoor Air (CFM/SF)	Calculated Population	Breathing Zone OA Flow (CFM)	Zone Distribution Effectiveness	Zone OA Flow (CFM)	Zone Primary Airflow (CFM)	Calculated Primary OA Fraction	System Ventilation Efficiency	Population Diversity	Required OA Flow (CFM)	Comments
RTU-1A/1B															
105	Janitor	30													
106	ADA Unisex Restroom	42			0.06	0	2	0.8	2	50	0.04	1	1	2	See exhaust requirements below
107	B.O.H.	552			0.06	0	33	0.8	41	650	0.06	1	1	41	See exhaust requirements below
	Serving Area	823			0.06	0	49	0.8	61	2500	0.02	1	1	61	See exhaust requirements below
										Max	0.06		Total	104	
RTU-2															
110	Dry Storage	95			0.06	0	5	0.8	6	125	0.04	1	1	6	
111	Hall	107			0.06	0	6	0.8	7	75	0.09	1	1	7	
112	Office	58	5	5	0.06	1	8	0.8	10	125	0.08	1	1	10	
113	Counting Room	58	5	5	0.06	1	8	0.8	10	125	0.08	1	1	10	
114	Office	98	5	5	0.06	1	10	0.8	12	175	0.06	1	1	12	
115	Restroom Corridor	170			0.06	0	10	0.8	12	75	0.16	1	1	12	
116	ADA Unisex Restroom	43			0.06	0	2	0.8	2	50	0.04	1	1	2	See exhaust requirements below
117	ADA Unisex Restroom	43			0.06	0	2	0.8	2	50	0.04	1	1	2	
										Max	0.16		Total	61	
RTU-3A/3B															
103	Food Court (Customer Area)	897		7.5	0.18	36	431	0.8	538				0.7	376	Occupancy based on seat count + 100%
RTU-4															
104	Dining	808		7.5	0.18	34	400	0.8	500				0.7	350	Occupancy based on seat count

Exhaust requirements

- 107 B.O.H. is required to have 0.7 cfm/sf exhaust = 386 cfm
- Serving Area is required to have 0.7 cfm/sf exhaust = 576 cfm
- 106 ADA Unisex Restroom is required to have 50 cfm exhasut
- 117 ADA Unisex Restroom is required to have 50 cfm exhasut
- 118 ADA Men's Restroom is required to have 50 cfm exhasut
- 119 ADA Men's Restroom is required to have 50 cfm exhasut

Air Balance Table

System	Airflow In	Airflow Out
RTU-1A/1B	3,200	2,500
RTU-2	800	625
RTU-3A/3B	2,000	1,480
RTU-4	1,600	1,225
Kitchen Hoods Makeup Air	3,744	
Kitchen Hoods Exhaust Air		4,680
EF-1		300
EF-2		475
Pressurization		59
Total	11,344	11,344



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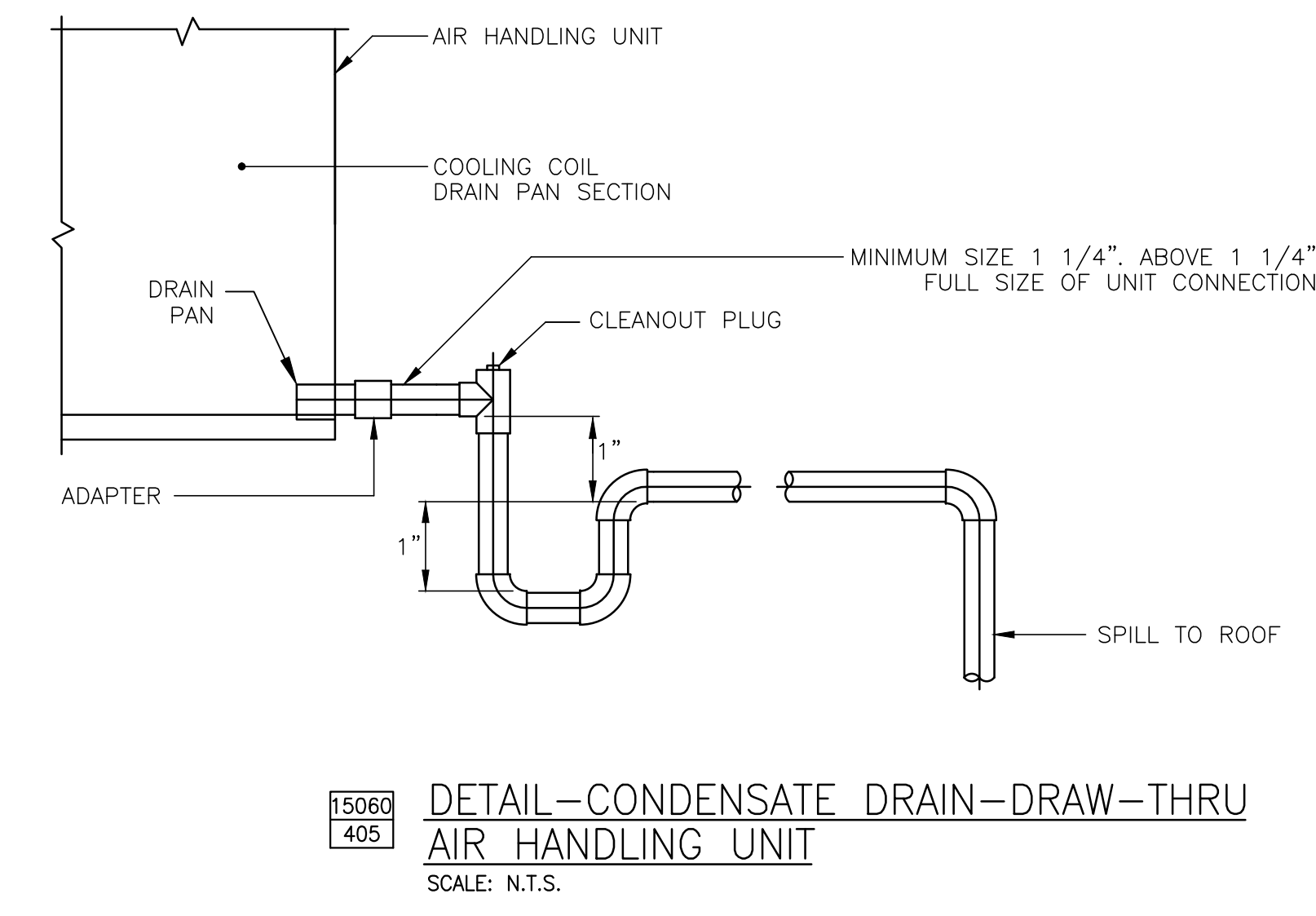
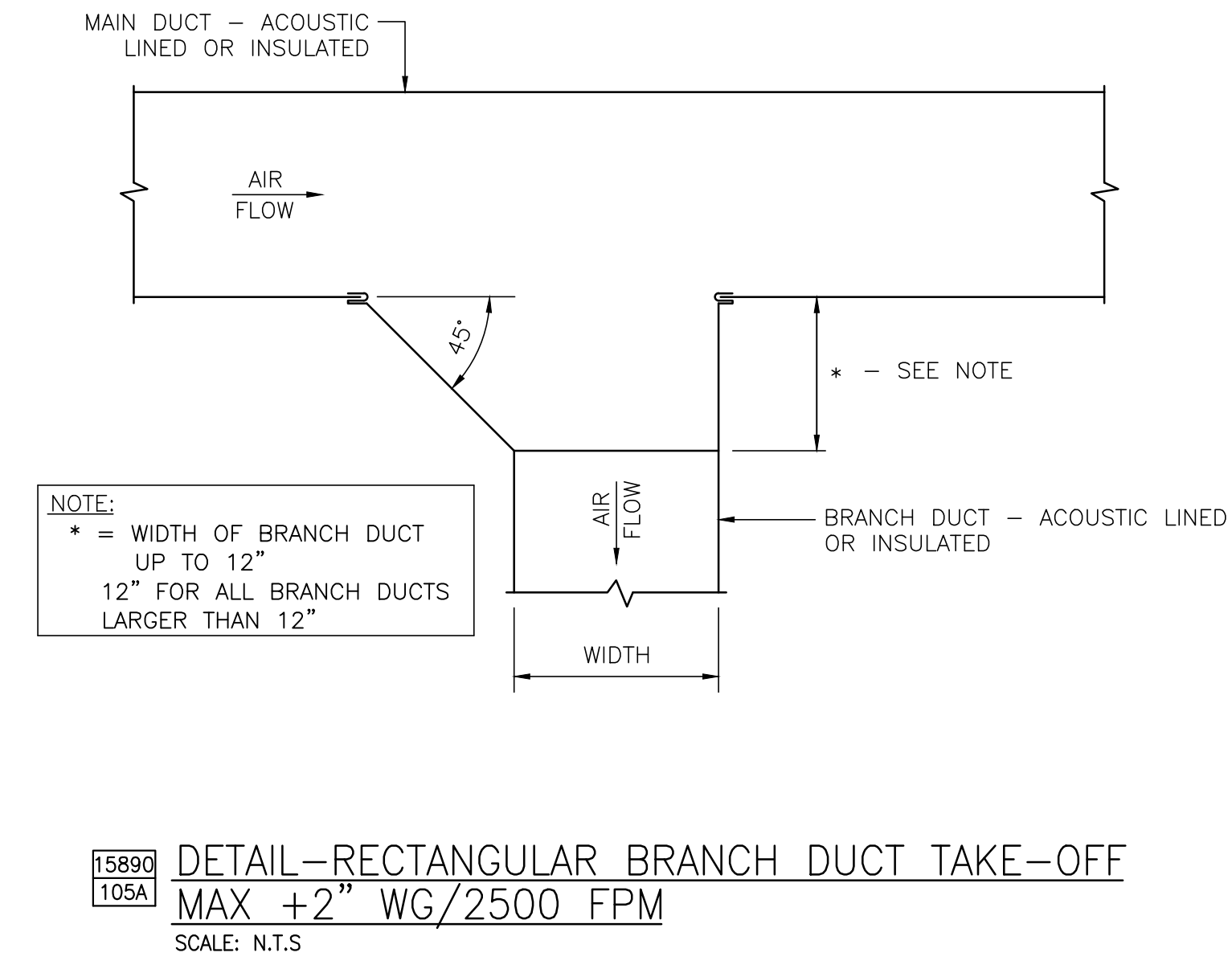
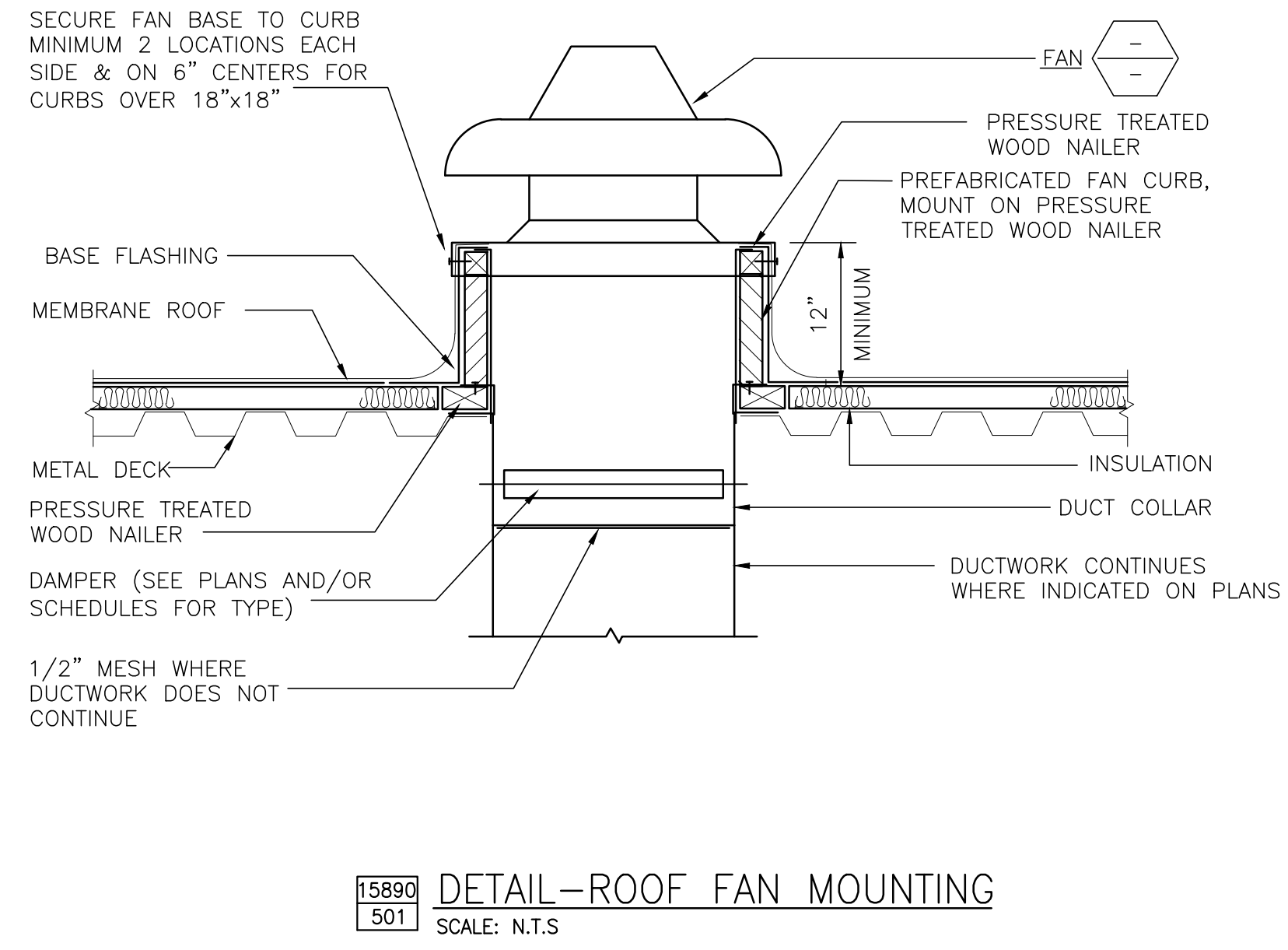
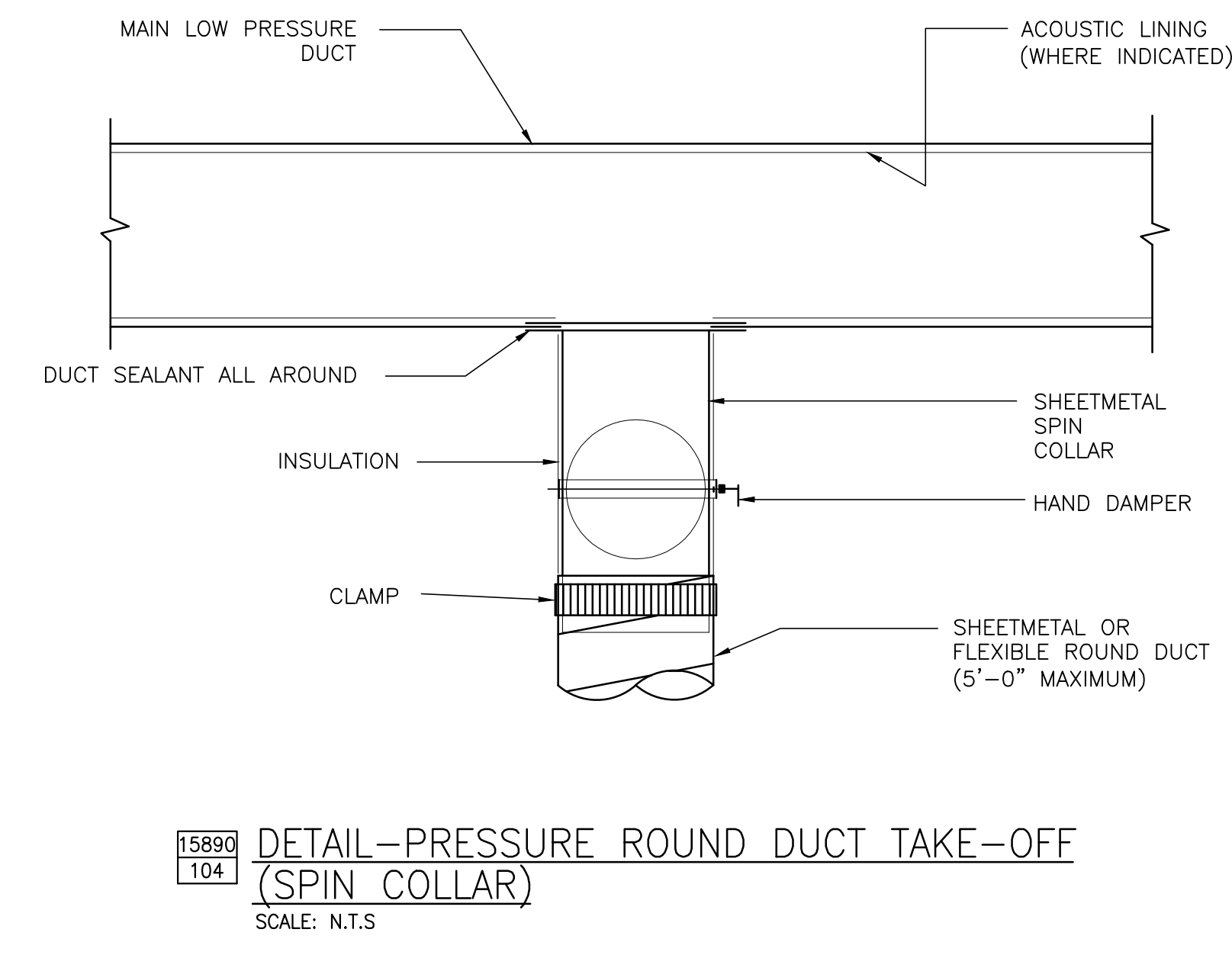
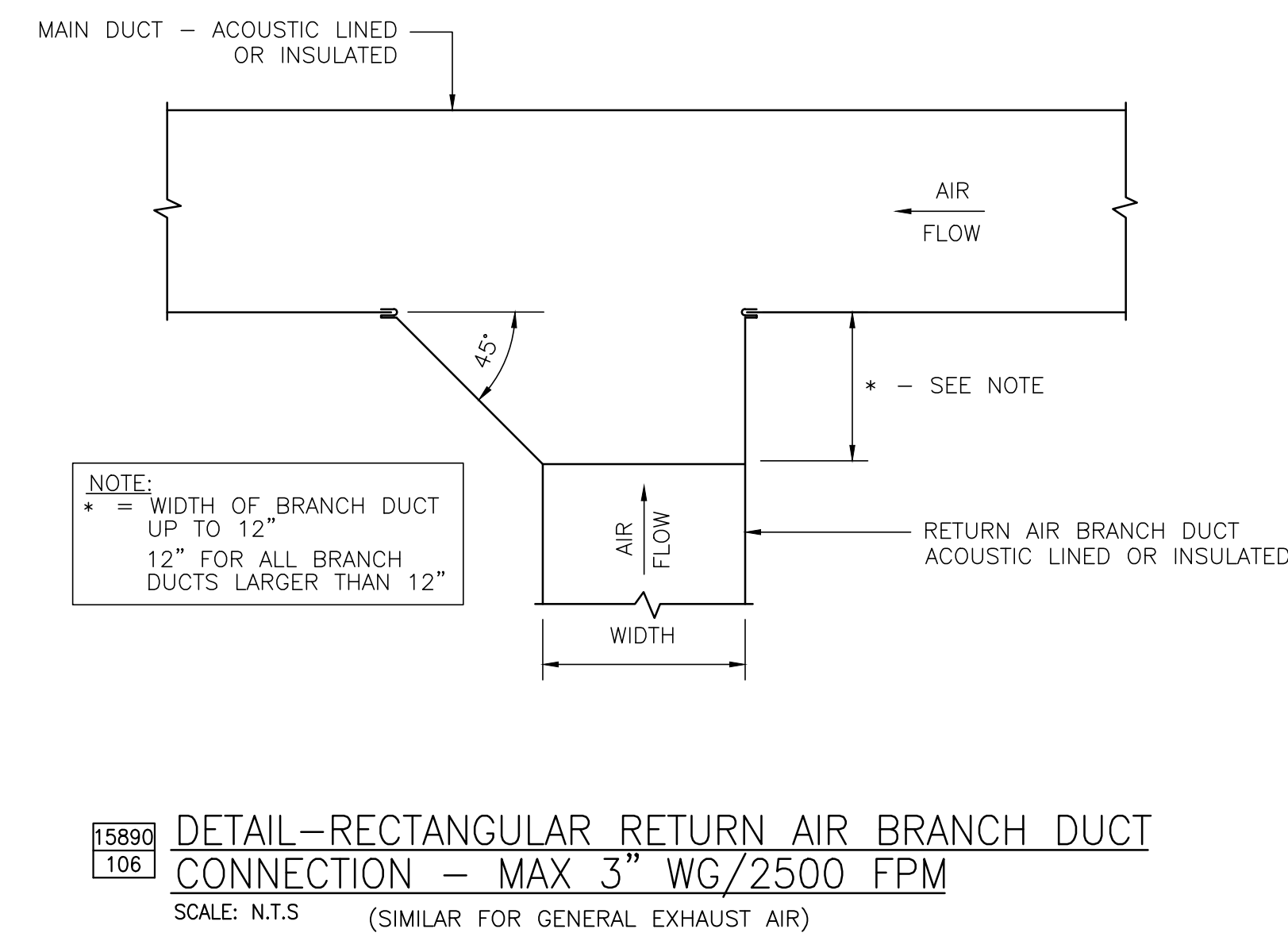
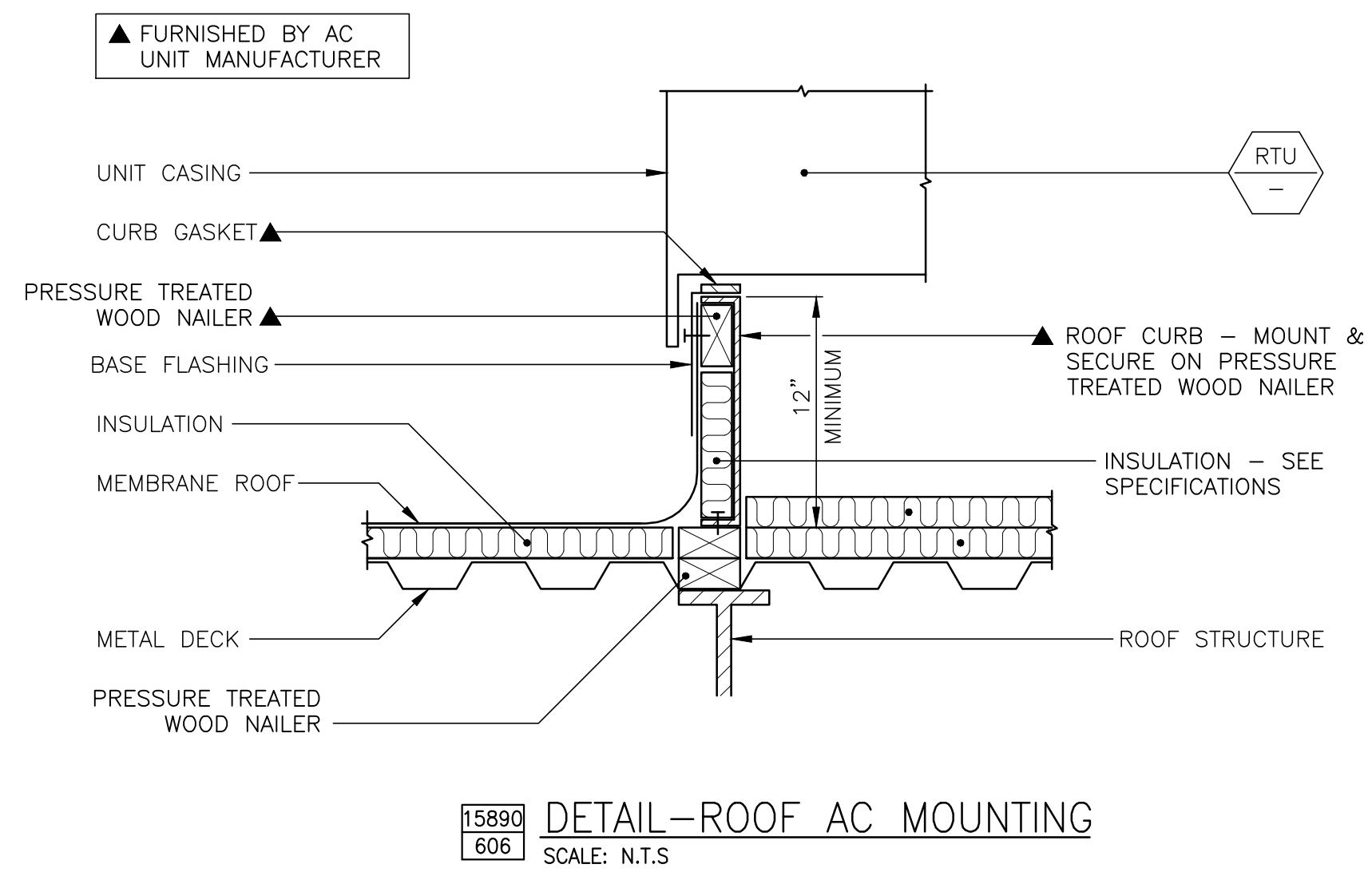
STRUCTURAL ENGINEER:

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280 N. PROVIDENCE RD, SUITE 105
MEDIA, PA 19063

CAPE MAY COUNTY ZOO SAFARI
CAFE 2 NEW RETAIL FOOD BUILDING
 707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210

TITLE: MECHANICAL DATA SCHEDULES
 DWG. NO. **M-4**
 DRAWN BY: PIS APPROVED BY: PIS
 SCALE: 1/4" = 1'-0" JOB#: 1610-021

REVIEW SET
 9-14-18



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CAPE MAY COUNTY ZOO SAFARI CAFE 2 NEW RETAIL FOOD BUILDING
707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210

TITLE:
MECHANICAL DETAILS
DWG. NO. **M-5**
DRAWN BY: PIS APPROVED BY: PIS
SCALE: 1/4" = 1'-0" JOB#: 1610-021

REVIEW SET
9-14-18

HOOD INFORMATION - Job#3532244

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM RISER(S)					MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD CONFIG.				
					TOTAL EXH. CFM	WIDTH	LENG.	HEIGHT	DIA.				CFM	VEL.	S.P.	END TO END	ROW
1	N-124L	6024 ND-2-ACPS-P-F	9' 0"	600 Deg.	2340			4'	14"	2340	2189	-1127"	1872	500	304 SS 100%	LEFT	ALONE
2	N-124R	6024 ND-2-ACPS-P-F	9' 0"	600 Deg.	2340			4'	14"	2340	2189	-1127"	1872	500	304 SS 100%	RIGHT	ALONE

HOOD INFORMATION

HOOD NO.	TAG	TYPE	FILTER(S)			LIGHT(S)			UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WGT	
			QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM TYPE			ELECTRICAL SIZE
1	N-124L	Captrate Solo Filter	6	20"	16"	85% See Filter Spec.	3	12" x 12" LED	NO					YES	640 LBS
2	N-124R	Captrate Solo Filter	6	20"	16"	85% See Filter Spec.	3	12" x 12" LED	NO					YES	640 LBS

HOOD OPTIONS

HOOD NO.	TAG	OPTION
1	N-124L	FIELD WRAPPER 18.00' High Front, Left BACKSPLASH 80.00' High X 216.00' Long 304 SS Vertical LEFT VERTICAL END PANEL 27' Top Width, 21' Bottom Width, 80' High Insulated 304 SS SENSOR-CV
2	N-124R	FIELD WRAPPER 18.00' High Front, Right RIGHT VERTICAL END PANEL 27' Top Width, 21' Bottom Width, 80' High Insulated 304 SS SENSOR-CV

PERFORATED SUPPLY PLENUM(S)

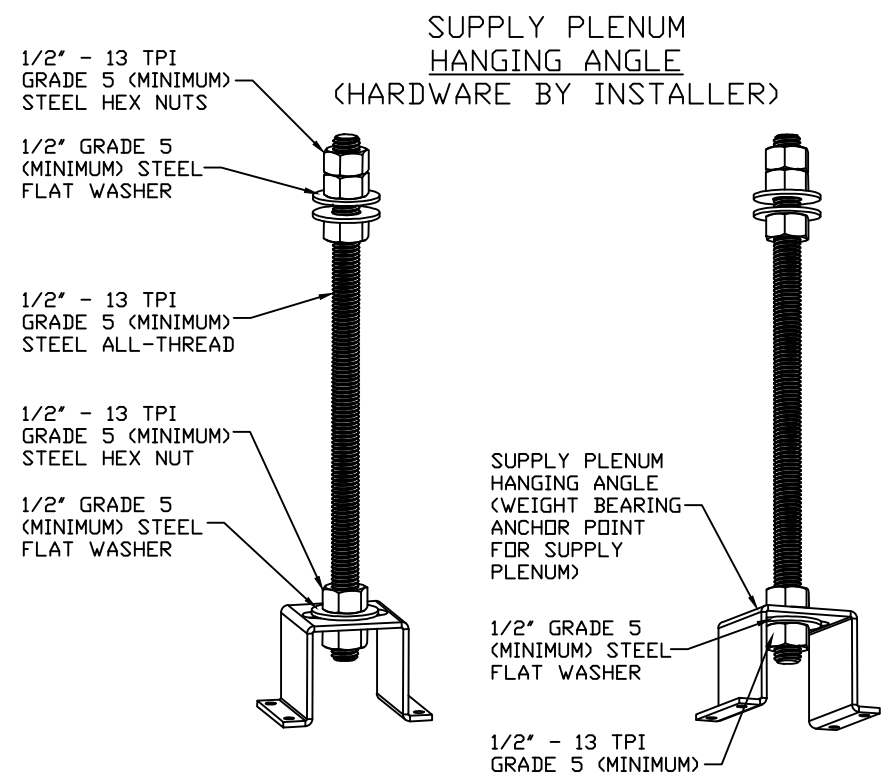
HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG.	DIA.	CFM	S.P.
1	N-124L	Front	108"	28"	6'	MUA	12"	24"		624	0.174"
						MUA	12"	24"		624	0.174"
						MUA	12"	24"		624	0.174"
						AC			8"	125	0.049"
						AC			8"	125	0.049"
						AC			8"	125	0.049"
2	N-124R	Front	108"	28"	6'	MUA	12"	24"		622	0.173"
						MUA	12"	24"		622	0.173"
						MUA	12"	24"		622	0.173"
						AC			8"	125	0.049"
						AC			8"	125	0.049"
						AC			8"	125	0.049"

Fire System Information - Job#3532244

FIRE SYSTEM NO.	Tag	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1	N-124L	Ansul R102	3.0/3.0	14	Wall Mount Left	N/A

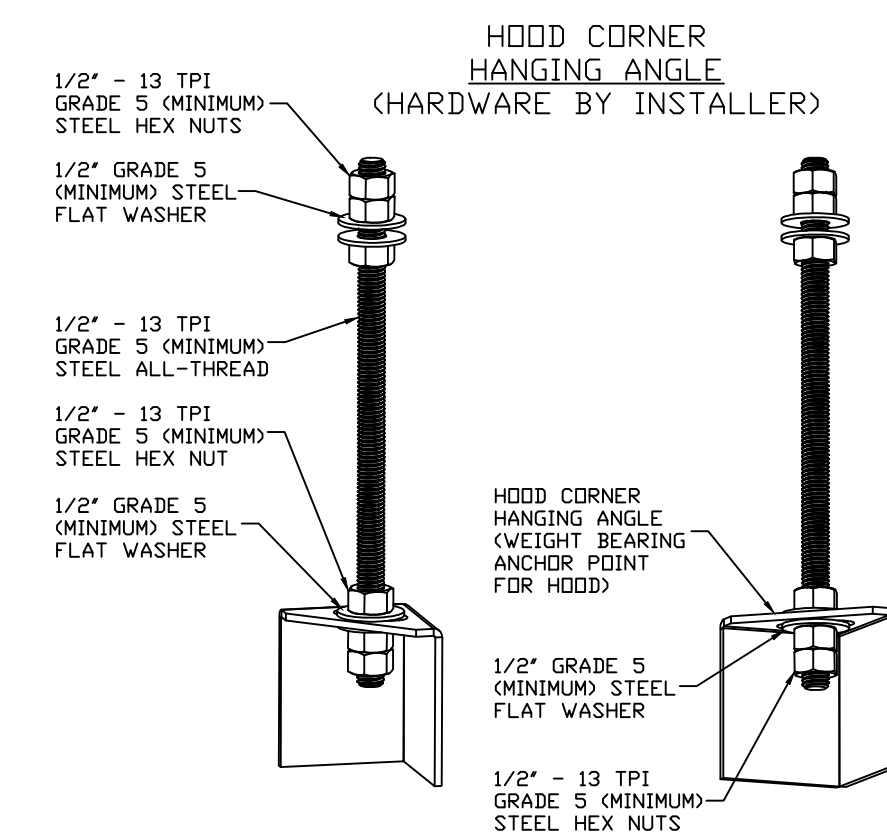
GAS VALVE(S)

FIRE SYSTEM NO.	TAG	TYPE	SIZE	SUPPLIED BY
1	N-124L	Mechanical	2.000	Distributor



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

FOR QUESTIONS, CALL
JEFF ERRICKSON OR STEVE BARGFREDE
S. NJ & DELAWARE SALES OFFICE
560 STOKES ROAD SUITE 13A7, MEDFORD NJ 08055
PHONE: (609) 654-8368
FAX: (919) 747-5604

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER

THE CAPTRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

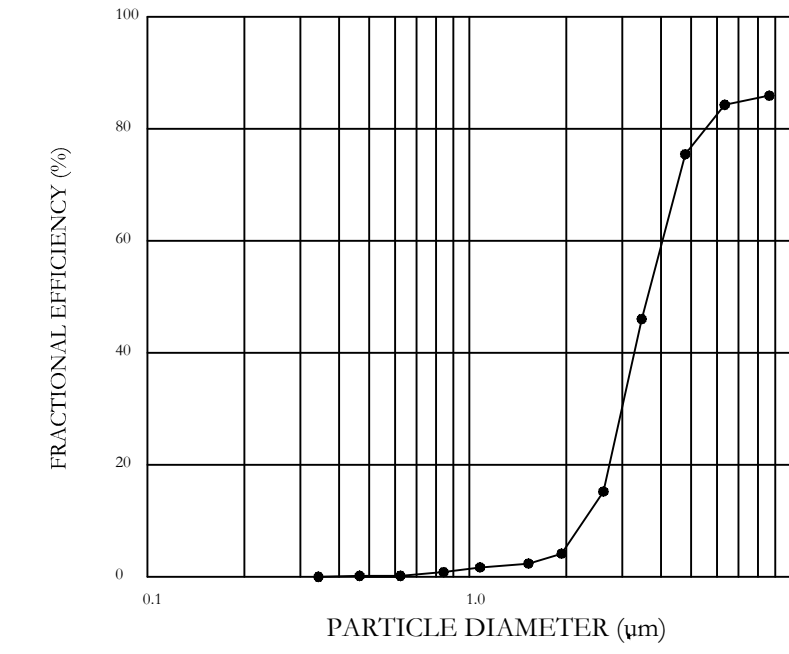
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

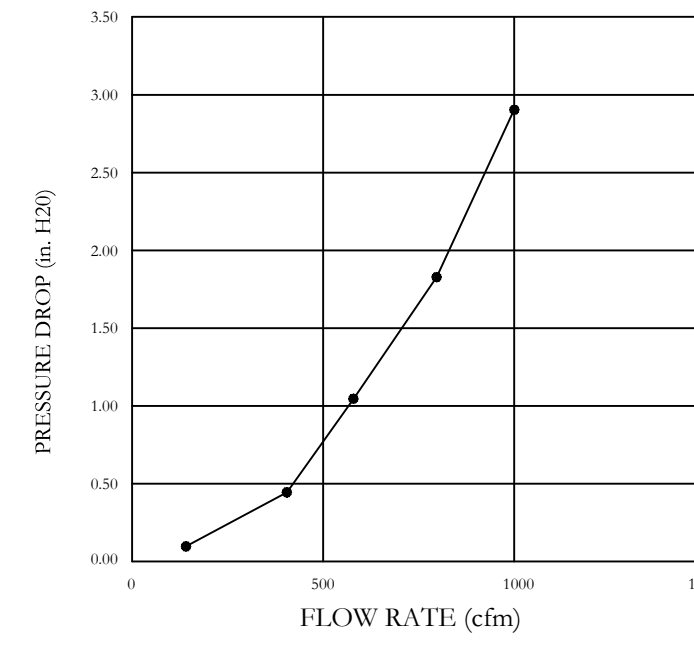
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96
UL STANDARD #2
UL STANDARD #1046
INT. MECH. CODE (IMC)
ULC-S649



PLEASE NOTE: THE HOOD MAY BE INSTALLED WITH A 0 INCH CLEARANCE TO COMBUSTIBLE MATERIALS IF CONSTRUCTED IN ONE OF THE FOLLOWING METHODS:
1 INCH LAYER OF INSULATION (TYPE 475) OWENS CORNING, JOHNS MANVILLE, OR 3M FIRE WRAP
1 INCH INSULATED BACKSPLASH BACK-RETURN (BR) SUPPLY PLENUM WITH 1 INCH LAYER OF INSULATION
THESE RATINGS APPLY TO TOP, ENDS, BACK AND FRONT OF THE EXHAUST HOOD

PLEASE NOTE: THE HOOD MAY BE INSTALLED WITH A 3 INCH CLEARANCE TO LIMITED COMBUSTIBLE MATERIALS IF CONSTRUCTED IN ONE OF THE FOLLOWING METHODS:
3 INCH FACTORY INSTALLED REAR UN-INSULATED STANDOFF
3 INCH FACTORY INSTALLED TOP WRAPPER / ENCLOSURE SYSTEM
3 INCH FACTORY INSTALLED END STANDOFF BACK-RETURN (BR) SUPPLY PLENUM
THESE RATINGS APPLY TO TOP, ENDS, BACK AND FRONT OF THE EXHAUST HOOD

FOR QUESTIONS, CALL THE:
NJ, DE, PA SALES DIVISION
560 STOKES ROAD MEDFORD, NJ 08055
PHONE: (866) 654-8368
FAX: (919) 747-5604
CAPTRATE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH
NFPA #96 - 2014 EDITION
ETL LISTED TO UL-710 REQUIREMENTS
IMC 2012

REVISIONS	
DESCRIPTION	DATE

CAPTIVE-AIRE

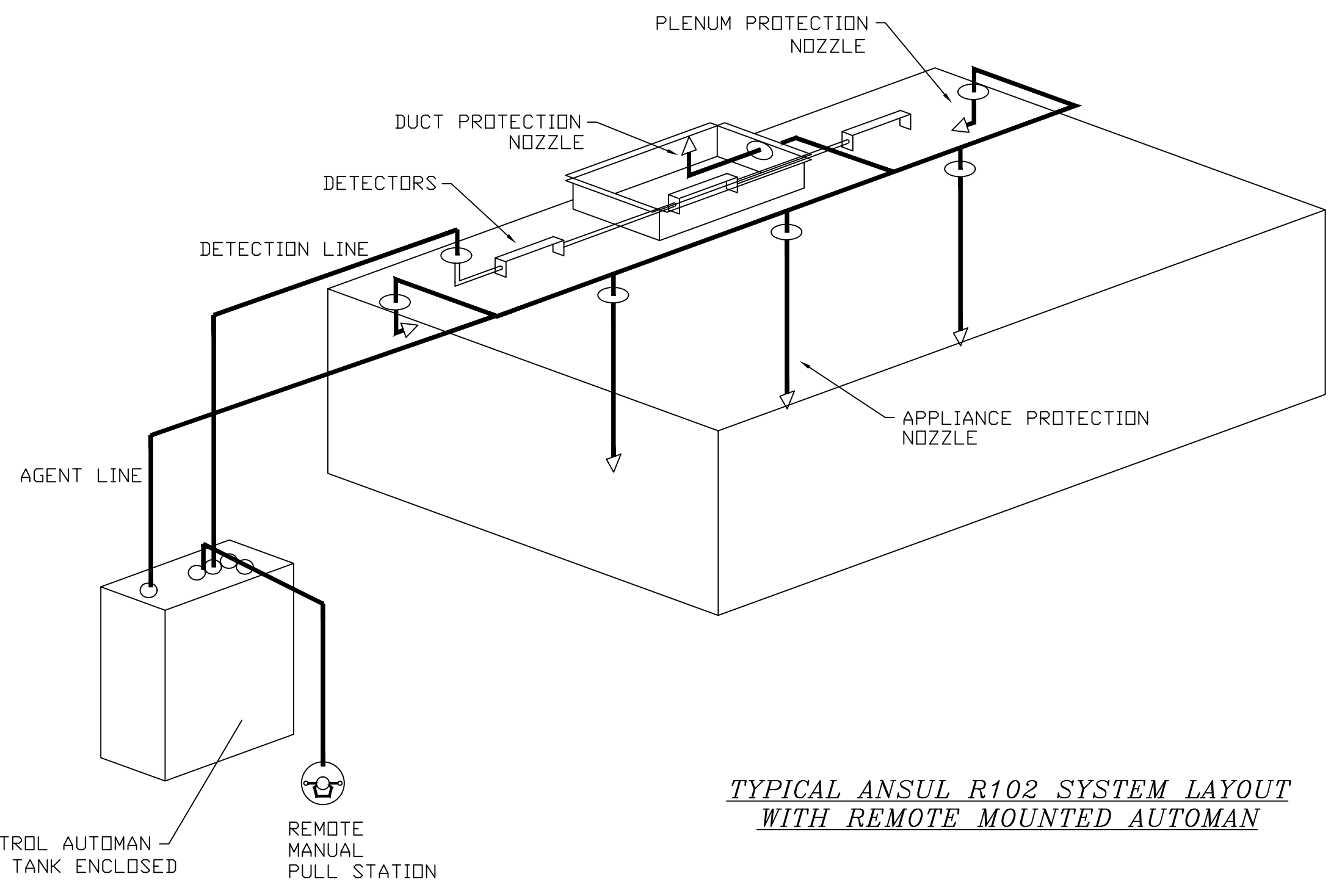
Delaware & New Jersey Account
560 Stokes Road, Unit 13A6, Medford, NJ 08055 PHONE: (609) 654-8368 FAX: (919) 747-5604 EMAIL: reg19@captiveaire.com

** Cape May County Zoo - R1 1-27-16
707 Route 9 North,
CAPE MAY COURT HOUSE, NJ, 08210

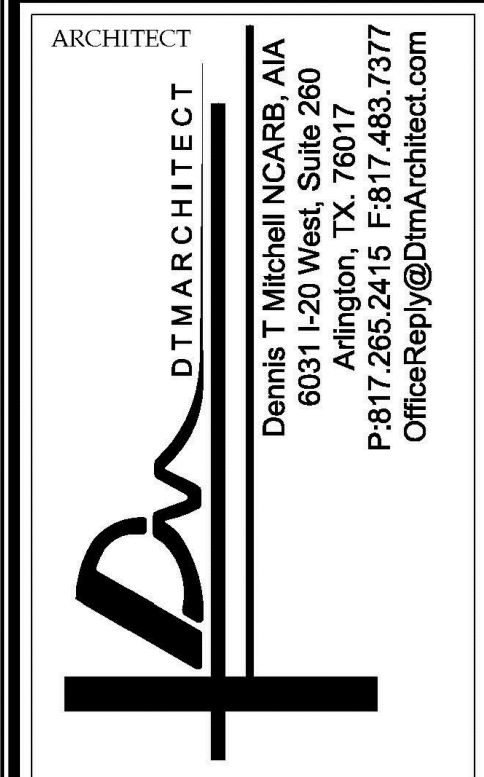
DATE: 8/30/2018
DWG.#: 3532244
DRAWN BY: JRE
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 1

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9-14-18



TYPICAL ANSUL R102 SYSTEM LAYOUT WITH REMOTE MOUNTED AUTOMAN



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MEP ENGINEER:
PSP ASSOCIATES
1105 MELLIE DRIVE
DOWNTOWN, PA 19335

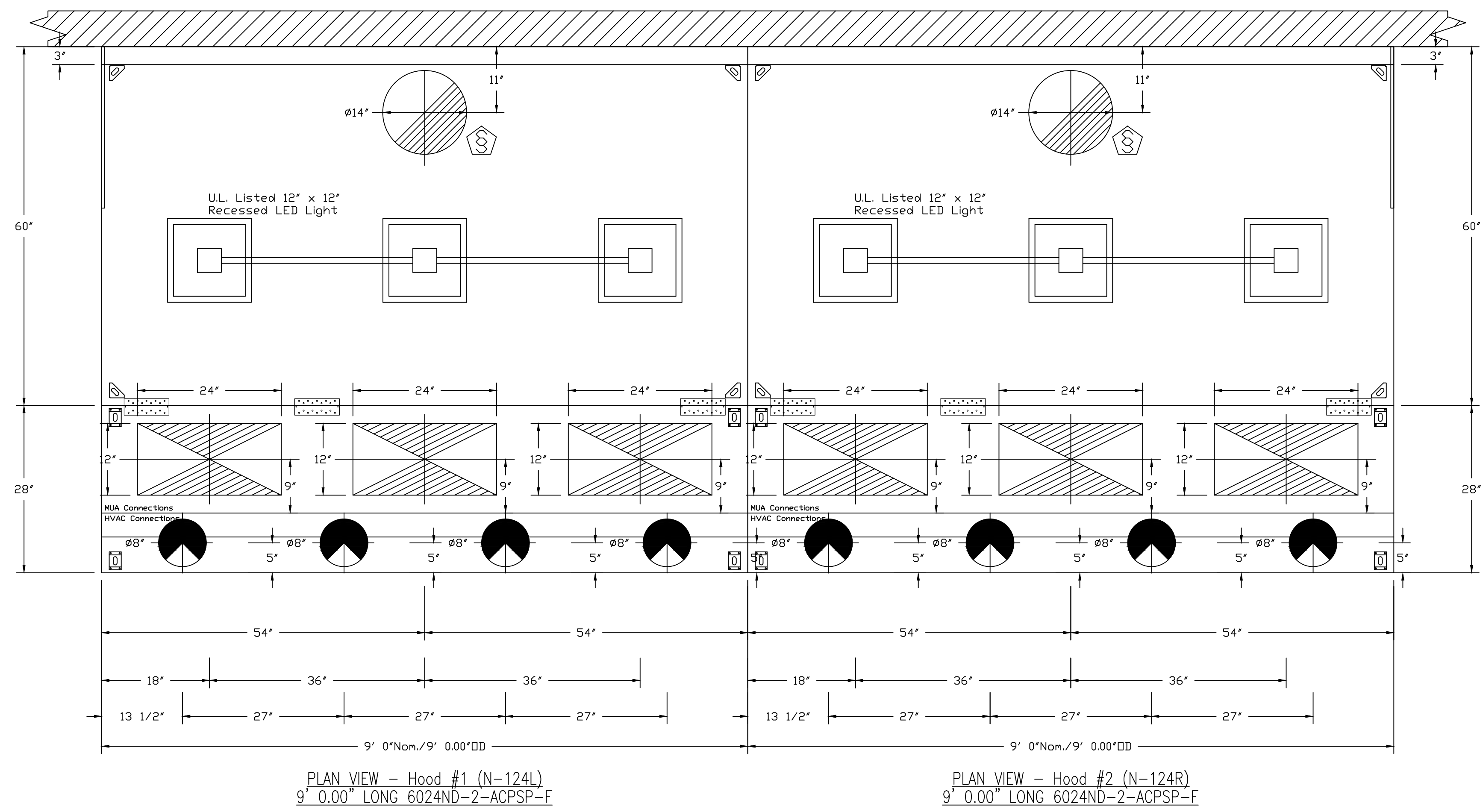
MULHERN CONSULTING ENGINEERS
321 SOUTH YORK ROAD
HATBORO, PA 19040

STRUCTURAL ENGINEER:
CKS STRUCTURES, INC.
280 N. PROVIDENCE RD, SUITE 105
MEDIA, PA 19063

CAPE MAY COUNTY ZOO SAFARI CAFE 2 NEW RETAIL FOOD BUILDING
707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210

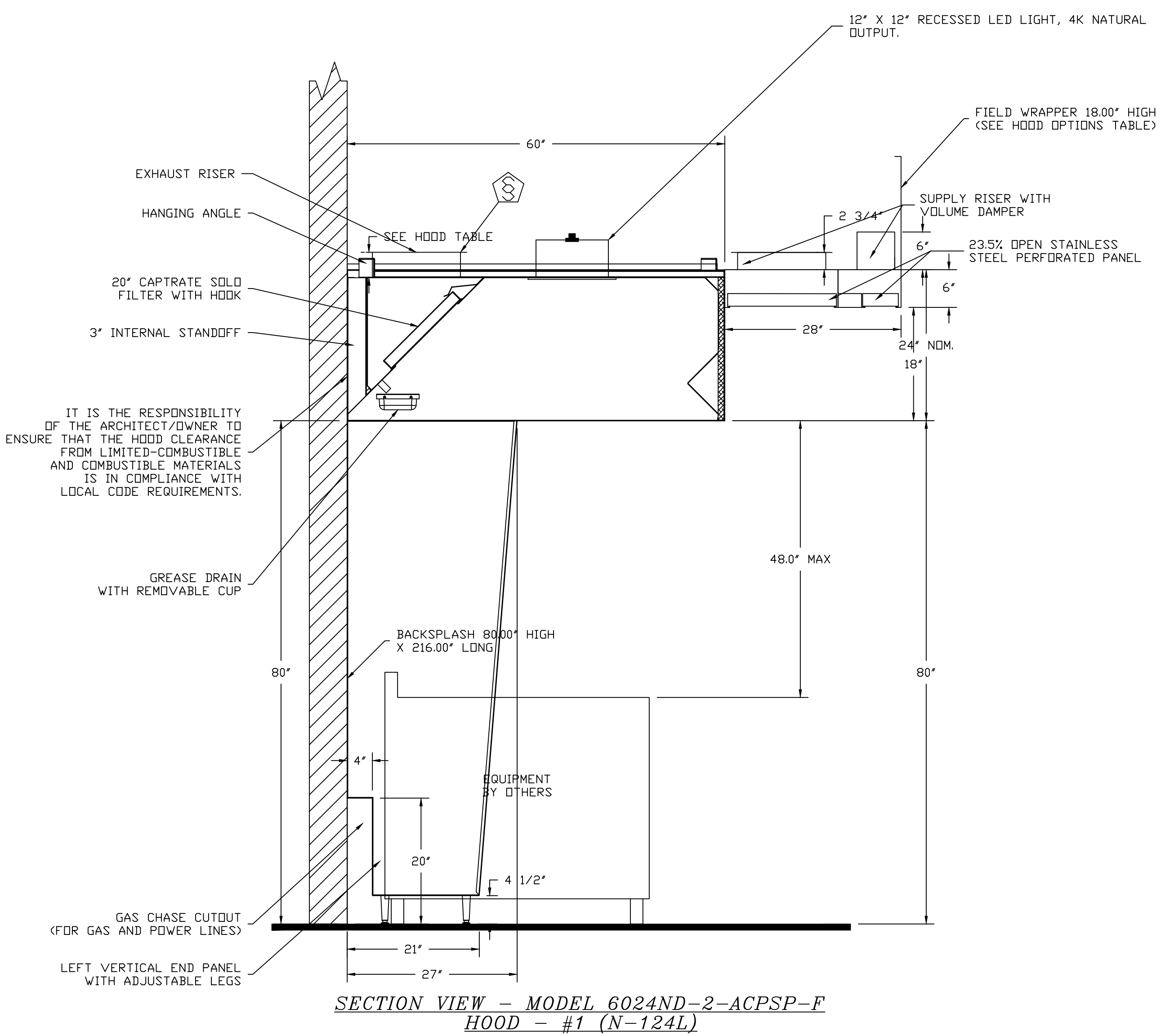
TITLE:
MECHANICAL KITCHEN HOOD SYSTEM - SHEET 1 OF 6
DWG. NO. **M-6**
APPROVED BY: PIS
SCALE: 1/4" = 1'-0" JOB#: 1610-021

VERIFY CEILING HEIGHT
 Height required to verify that the hood will fit and to size the enclosure panels

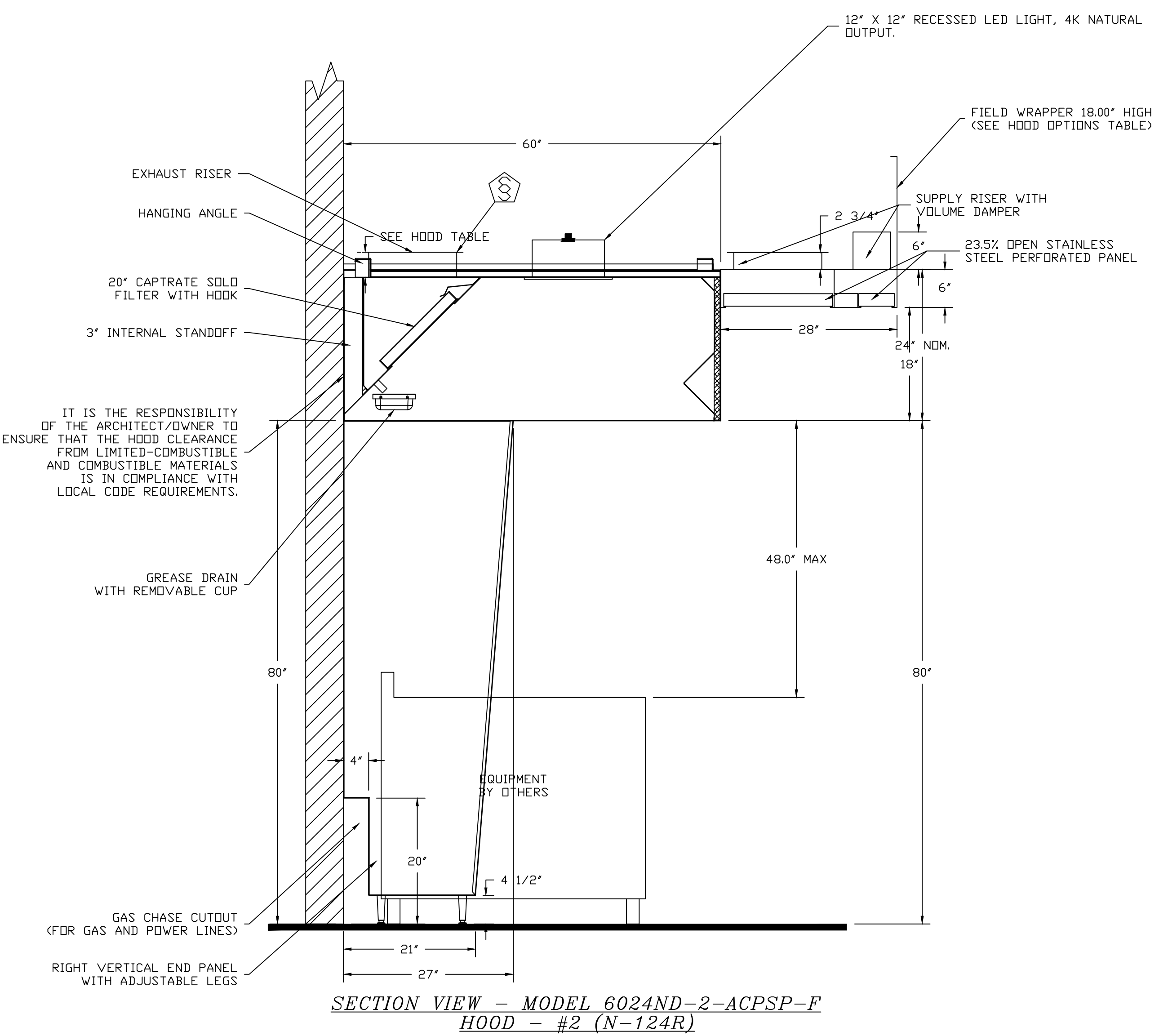


ACPSP ships loose for field installation

ACPSP ships loose for field installation



SECTION VIEW - MODEL 6024ND-2-ACPSP-F HOOD - #1 (N-124L)



SECTION VIEW - MODEL 6024ND-2-ACPSP-F HOOD - #2 (N-124R)

REVISIONS	
DESCRIPTION	DATE

CAPTIVE
 www.captiveare.com
 Delaware & New Jersey Account
 (609) 654-8368 FAX: (919) 747-5604 EMAIL: reg19@captiveare.com

** Cape May County Zoo - R1 1-27-16
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 DWG.#: 3532244
 DRAWN BY: JRE
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

SHEET NO.
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 9-14-18

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 OfficeReply@DtmArchitect.com

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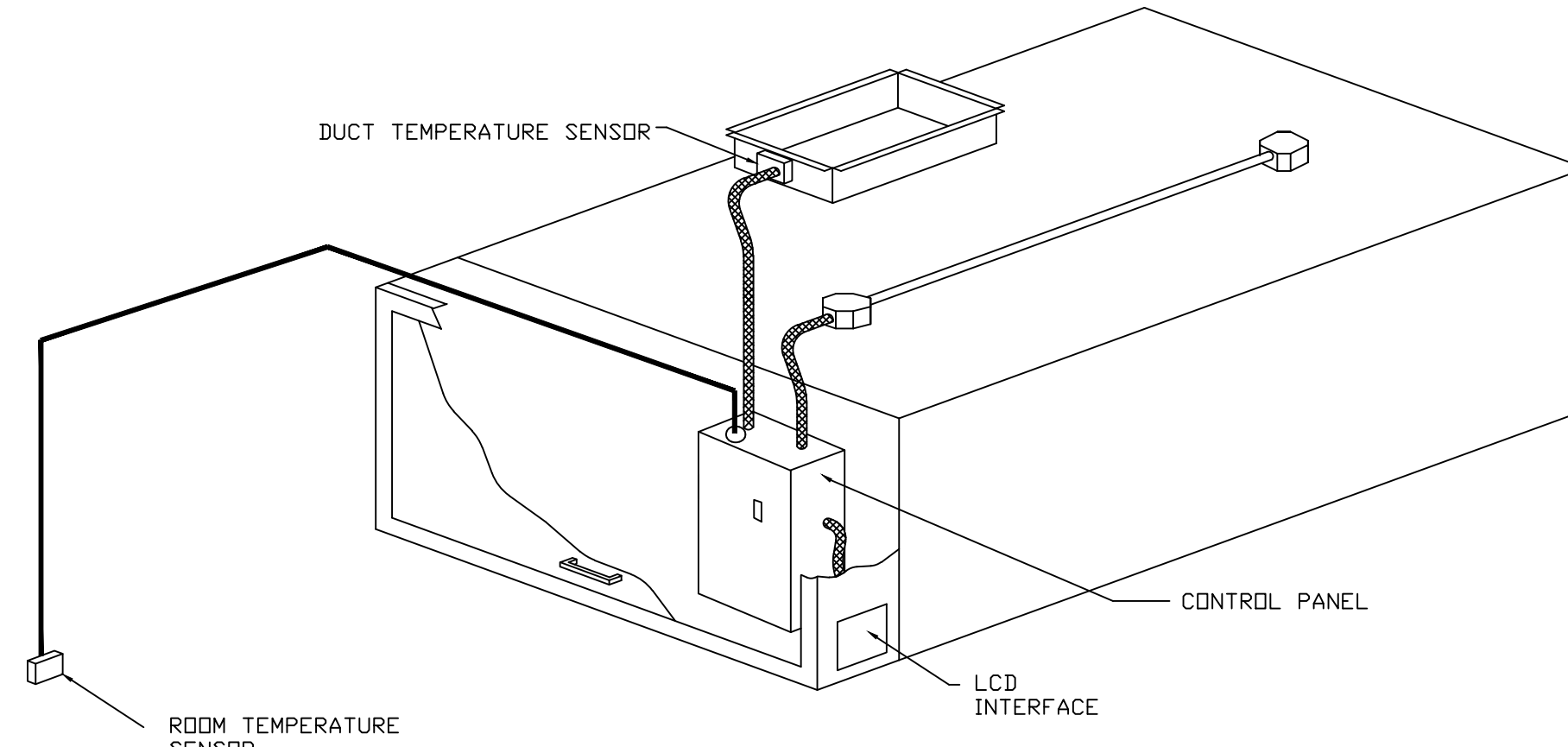
TITLE:
MECHANICAL KITCHEN HOOD SYSTEM - SHEET 2 OF 6
 DWG. NO. **M-7**
 DRAWN BY: PIS APPROVED BY: PIS
 SCALE: 1/4" = 1'-0" JOB#: 1610-021

ELECTRICAL PACKAGE - Job#3532244

NO.	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	φ	HP.	VOLTS	FLA
1	N-124.2	DCV-2111	Wall Mount In SS Box	01 - Face Mount Left Side of Hood	1 Light	Smart Controls DCV	Exhaust	3	2,000	208	6.1
				Hood # 2	1 Fan		Exhaust	3	2,000	208	6.1
							Supply	3	3,000	208	10.2

Demand Control Ventilation Hood Control Panel Specifications:

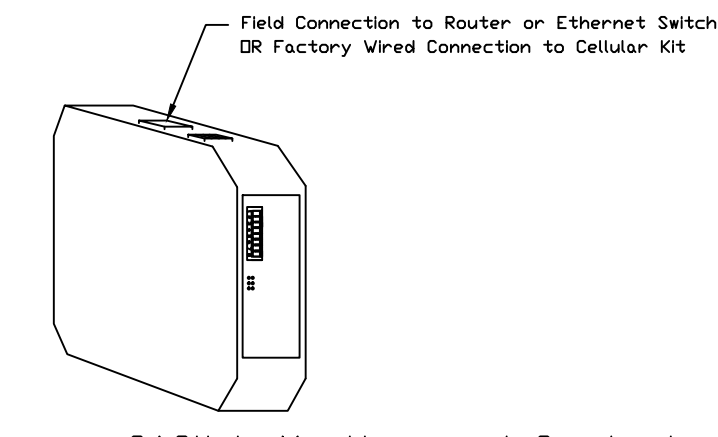
- Controls shall be listed by ETL (UL 508A) and shall comply with demand ventilation system turndown requirements outlined in IECC 403.2.8 (2015).
- The control enclosure shall be NEMA 1 rated and listed for installation inside of the exhaust hood utility cabinet. The control enclosure may be constructed of stainless steel or painted steel.
- Temperature probe(s) located in the exhaust duct riser(s) shall be constructed of stainless steel.
- A digital controller shall be provided to activate the hood exhaust fans dynamically based on a fixed differential between the ambient and duct temperatures sensors. This function shall meet the requirements of IMC 507.1.1.
- A digital controller shall provide adjustable hysteresis settings to prevent cycling of the fans after the cooking appliances have been turned off and/or the heat in the exhaust system is reduced.
- A digital controller shall provide an adjustable minimum fan run-time setting to prevent fan cycling.
- Variable Frequency Drives (VFDs) shall be provided for fans as required. The digital controller shall modulate the VFDs between a minimum setpoint and a maximum setpoint on demand. The duct temperature sensor input(s) to the digital controller shall be used to calculate the speed reference signal.
- The VFD speed range of operation shall be from 0% to 100% for the system, with the actual minimum speed set as required to meet minimum ventilation requirements.
- An internal algorithm to the digital controller shall modulate supply fan VFD speed proportional to all exhaust fans that are located in the same fan group as the supply fan.
- The system shall operate in PREP MODE during light cooking load or COOL DOWN MODE when sufficient heat remains underneath the hood system after cooking operations have completed. Operation during either of these periods will disable the supply fans and provide an exhaust fan speed that is equal to the minimum ventilation requirement.
- A digital controller shall disable the supply fan(s), activate the exhaust fan(s), activate the appliance shunt trip, and disable an electric gas valve automatically when fire condition is detected on a covered hood.
- A digital controller shall allow for external BMS fan control via Dry Contact (external control shall not override fan operation logic as required by code).
- An LCD interface shall be provided with the following features:
 - On/Off push button fan & light switch activation
 - Integrated gas valve reset for electronic gas valves (no reset relay required)
 - VFD Fault display with audible & visual alarm notification
 - Duct temperature sensor failure detection with audible & visual alarm notification
 - Mis-wired duct temperature sensor detection with audible & visual alarm notification
 - A single low voltage Cat-5 RJ45 wiring connection
 - An energy savings indicator that utilizes measured kWh from the VFDs



TYPICAL HOOD CONTROL PANEL INSTALLATION

Sequence of Operations:

- The hood control panel is capable of operating in one or more of the following states at any given time:
- **Automatic:** The system operates based on the differential between room temperature and the temperature at the hood cavity or exhaust duct collar. Fans activate at a configurable temperature differential threshold. Depending on the job configuration each fan zone can be configured as static or dynamic. These terms refer to whether a variable motor (such as EC Motors or VFD driven motors) modulate with temperature. If the panel is equipped with variable speed fans and the zone is defined as 'dynamic', these will modulate within a user-defined range based on the temperature differential. Panels equipped with variable speed fans and a fan zone defined as 'static', fans will run at a set speed calculated for the drive. Demand control ventilation systems are capable of modulating exhaust and make up air fan speeds per the requirements outlined in IECC 403.2.8.
 - **Manual:** The system operates based on human input from an HMI.
 - **Schedule:** A weekly schedule can be set to run fans for a specified period throughout the day. There are three occupied times per day to allow for the user to set up a time that is suitable to their needs. Any time that is within the defined occupied time, the system will run at modulation mode and follow the fan procedure algorithm based on temperature during this time. During unoccupied time, the system will have an extra offset to prevent unintended activation of the system during a time where the system is not being occupied.
 - **Other:** The system operates based on the input from an external source (DDC, BMS or hard-wired interlock)



CASLink Monitor and Control

- Hood control panel to support communications to cloud-based Building Management System.
- Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
- Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
- Hood control panel to allow remote changes to system setting such as VFD Frequencies, ECM speeds, temperature set points, fan and wash schedules, etc.

MONITORING AND CONTROL POINTS LIST

SCV Packages	Function	SC Packages	Function
Room Temperature	MONITOR	Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR	Back Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR	MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR	Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR	Controller Faults	MONITOR
Fan Amperage	MONITOR	Fan Faults	MONITOR
Fan Power	MONITOR	Fan Status	MONITOR
VFD Faults	MONITOR	PCU Faults	MONITOR
Controller Faults	MONITOR	PCU Filter Clog Percentages	MONITOR
Fan Faults	MONITOR	Fire Condition	MONITOR
Fan Status	MONITOR	CDCE Fire System	MONITOR
PCU Faults	MONITOR	Building Pressures	MONITOR
PCU Filter Clog Percentages	MONITOR	Fans Buttons(s)	MONITOR & CONTROL
Fire Condition	MONITOR	Lights Buttons(s)	MONITOR & CONTROL
CDCE Fire System	MONITOR	Wash Button	MONITOR & CONTROL
Building Pressures	MONITOR		
Prep Time Button	MONITOR & CONTROL		
Fans Button	MONITOR & CONTROL		
Lights Button	MONITOR & CONTROL		
Wash Button	MONITOR & CONTROL		

REVISIONS

DESCRIPTION	DATE

CAPTIVE

Delaware & New Jersey Account

560 Stokes Road, Unit 134G, Medford, NJ 08055 PHONE: (609) 654-8368 FAX: (919) 747-5604 EMAIL: reg19@captiveare.com

** Cape May County Zoo - R1 1-27-16
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DATE: 8/30/2018
DWG.#: 3532244
DRAWN BY: JRE
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
3

REVIEW SET
9-14-18

ARCHITECT

DT MARCHITECT

Dennis T. Mitchell NCARB, AIA
6001 L-20 West, Suite 260
P-817-265-2415 F-817-483-7377
OfficeReply@DtMarchitect.com

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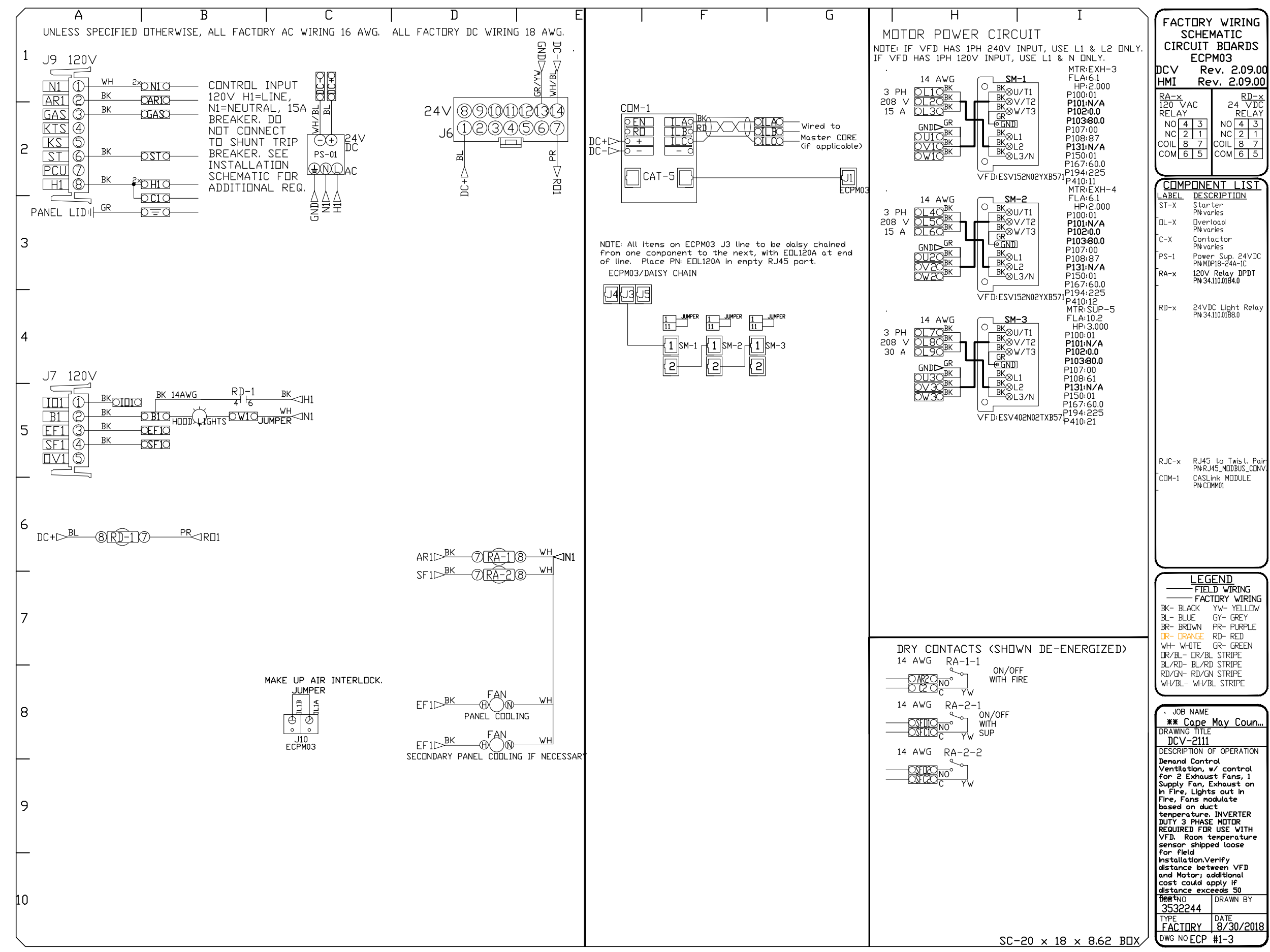
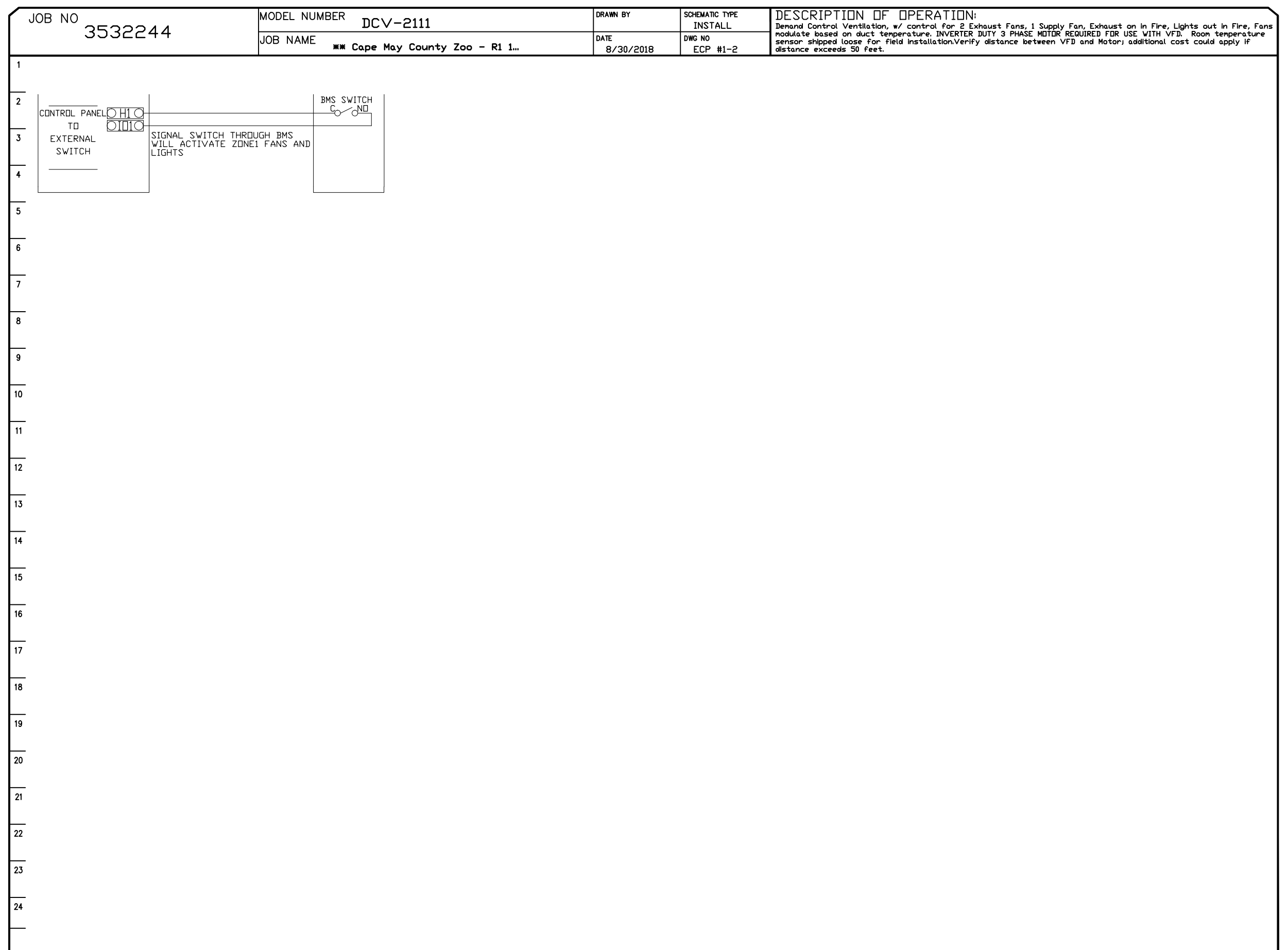
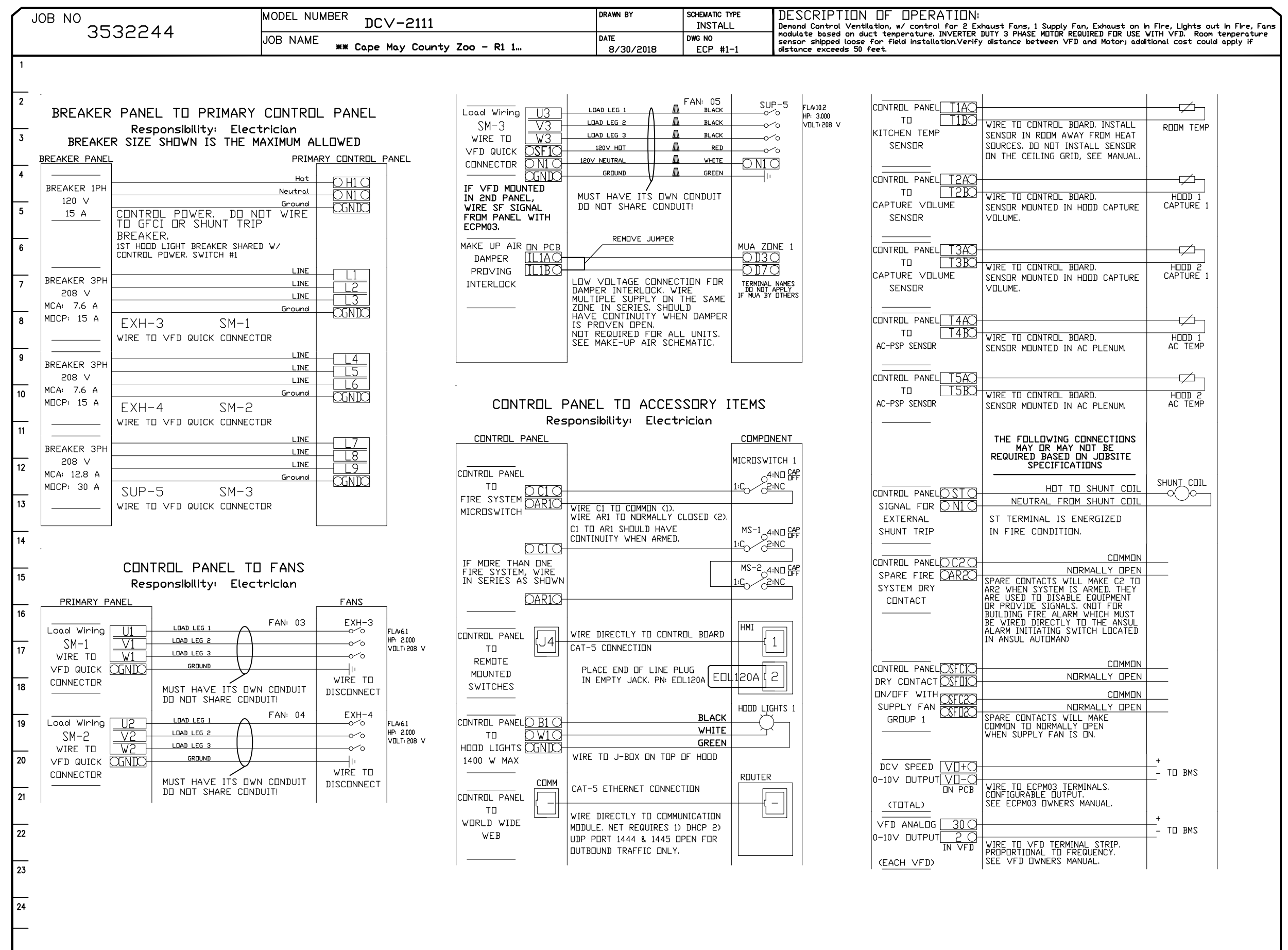
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CKS STRUCTURES, INC.
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MEDIA, PA 19063

CAPE MAY COUNTY ZOO SAFARI CAFE 2 NEW RETAIL FOOD BUILDING

707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210

TITLE:
MECHANICAL KITCHEN HOOD SYSTEM - SHEET 3 OF 6
DWG. NO. **M-8**

DRAWN BY: PIS APPROVED BY: PIS
SCALE: 1/4" = 1'-0" JOB#: 1610-021



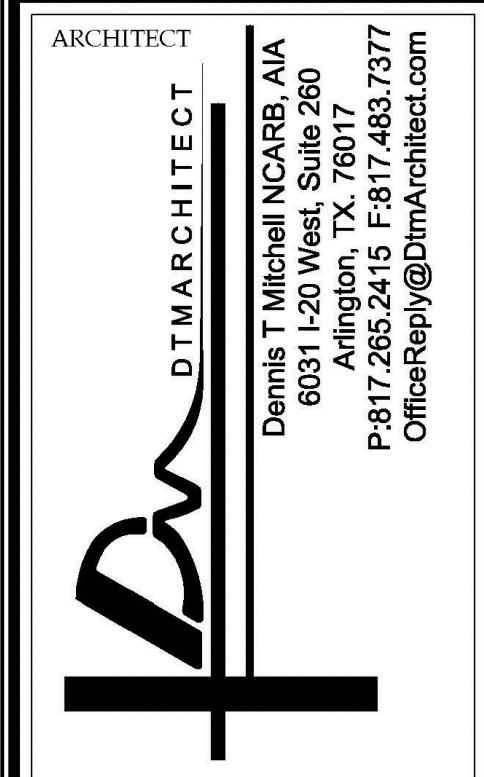
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DESCRIPTION	DATE

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 707 Route 9 North,
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DATE: 8/30/2018
DWG.#: 3532244
DRAWN BY: JRE
SCALE: 3/4" = 1'-0"
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MULHERN CONSULTING ENGINEERS
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 HATBORO, PA 19040

STRUCTURAL ENGINEER:
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 280 N. PROVIDENCE RD, SUITE 105
 MEDIA, PA 19063

CAPE MAY COUNTY ZOO SAFARI CAFE 2 NEW RETAIL FOOD BUILDING
 707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210

TITLE:
MECHANICAL KITCHEN HOOD SYSTEM - SHEET 4 OF 6
 DWG. NO. **M-9**
 APPROVED BY: PJS
 SCALE: 1/4" = 1'-0" JOB#: 1610-021

REVIEW SET
 9-14-18

EXHAUST FAN INFORMATION - Job#3537160

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VQLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS.)	SDNES
1	KEF-1	NCA24HPFA	4680	1.800	1093	3.000	2.3600	3	208	8.7	1064 FPM	261	21

MUA FAN INFORMATION - Job#3537160

FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VQLT	FLA	WEIGHT (LBS.)	SDNES	BURNER EFFICIENCY(%)
2	HMAU-1	A2-D.250-20D	20MF-2-MDD	A2-D.250	2000	3740	0.500	1433	3.000	1.7140	3	208	9.5	827	13.5	92

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO.	TAG	INPUT BTUs	OUTPUT BTUs	TEMP. RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE
2	HMAU-1	243130	223680	56 deg F	7 in. w.c. - 14 in. w.c.	Natural

FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1	KEF-1	1 - Grease Box 1 - Motorized Backdraft Damper for A2-D Housing 1 - Low Fire Start 1 - Inlet Pressure Gauge, 0-35"
2	HMAU-1	1 - Manifold Pressure Gauge, -5 to 15" wc 1 - Separate 120V Wiring Package (Required and used only for DCV or Prewire with VFD) - Three Phase Only 1 - Size 2 Direct Fired Heater Low CFM Profile Package. Used on Heaters under 2500 cfm.

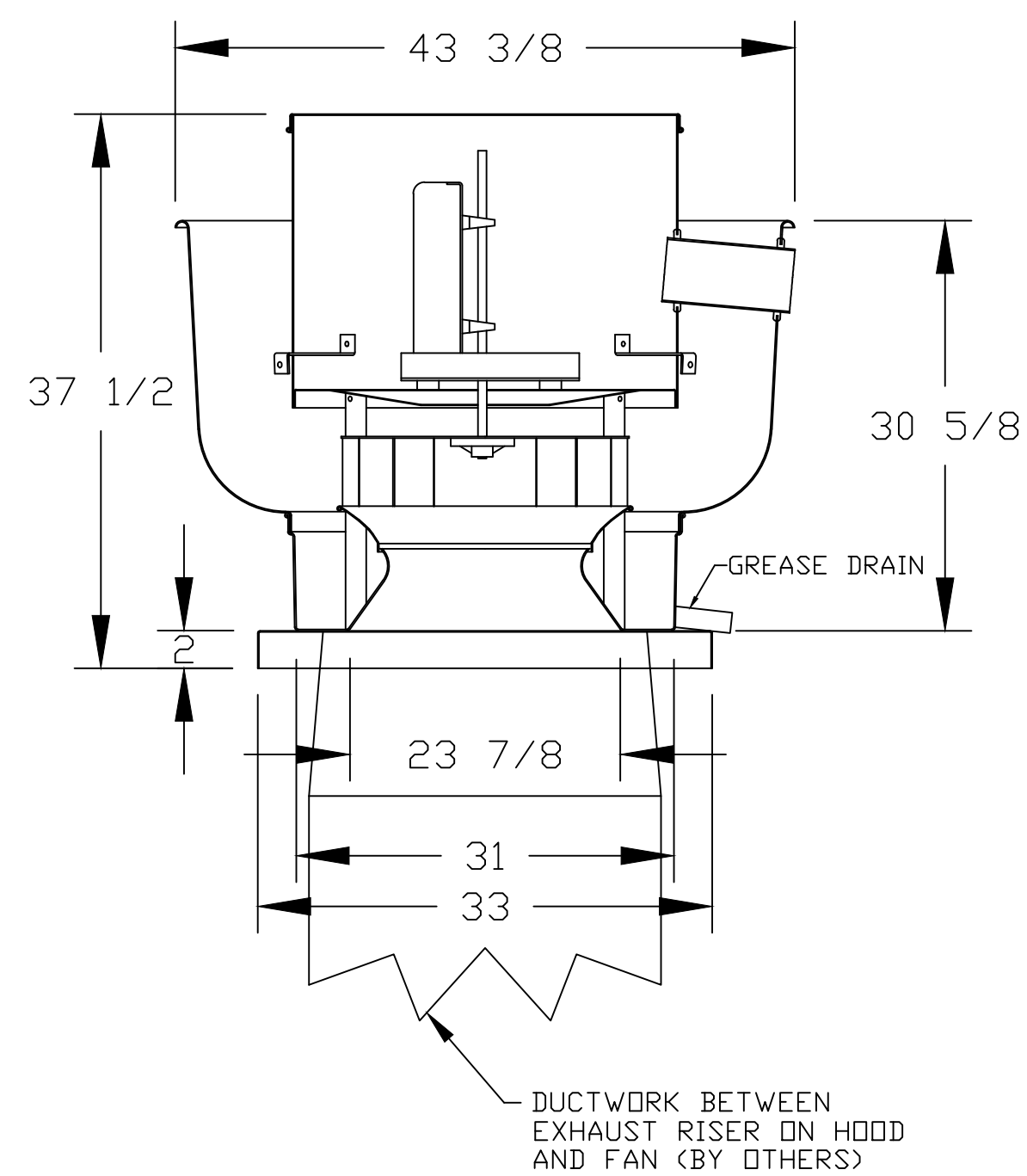
FAN ACCESSORIES

FAN UNIT NO.	TAG	EXHAUST				SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT	
1	KEF-1	YES							
2	HMAU-1					YES			

CURB ASSEMBLIES

NO.	DN FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF-1	48 LBS	Curb	31.500"W x 31.500"L x 20.000"H Vented Hinged
2	# 2	HMAU-1	107 LBS	Curb	31.000"W x 79.000"L x 20.000"H Insulated

FAN #1 NCA24HPFA - EXHAUST FAN (KEF-1)



FEATURES:

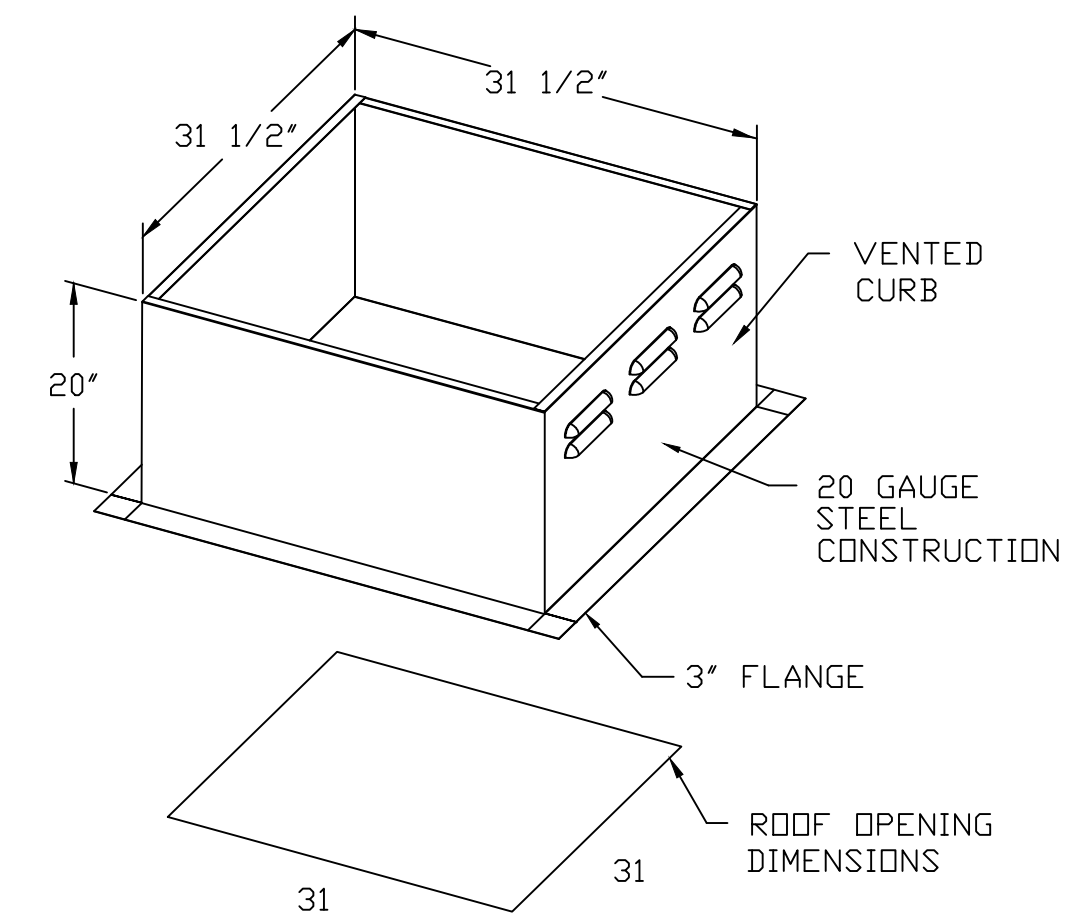
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762 AND ULC-S645
- AMCA SOUND AND AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT SWITCH
- WEATHERPROOF DISCONNECT
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

GREASE BOX.



REVISIONS

DESCRIPTION	DATE

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Cape May County Zoo
CAPE MAY COURT HOUSE, NJ

DATE: 9/5/2018
DWG.#: 3537160
DRAWN BY: JRE
SCALE: NTS
SPEC - FANS

SHEET NO. 5

CAPE MAY COUNTY ZOO SAFARI CAFE 2 NEW RETAIL FOOD BUILDING
707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210

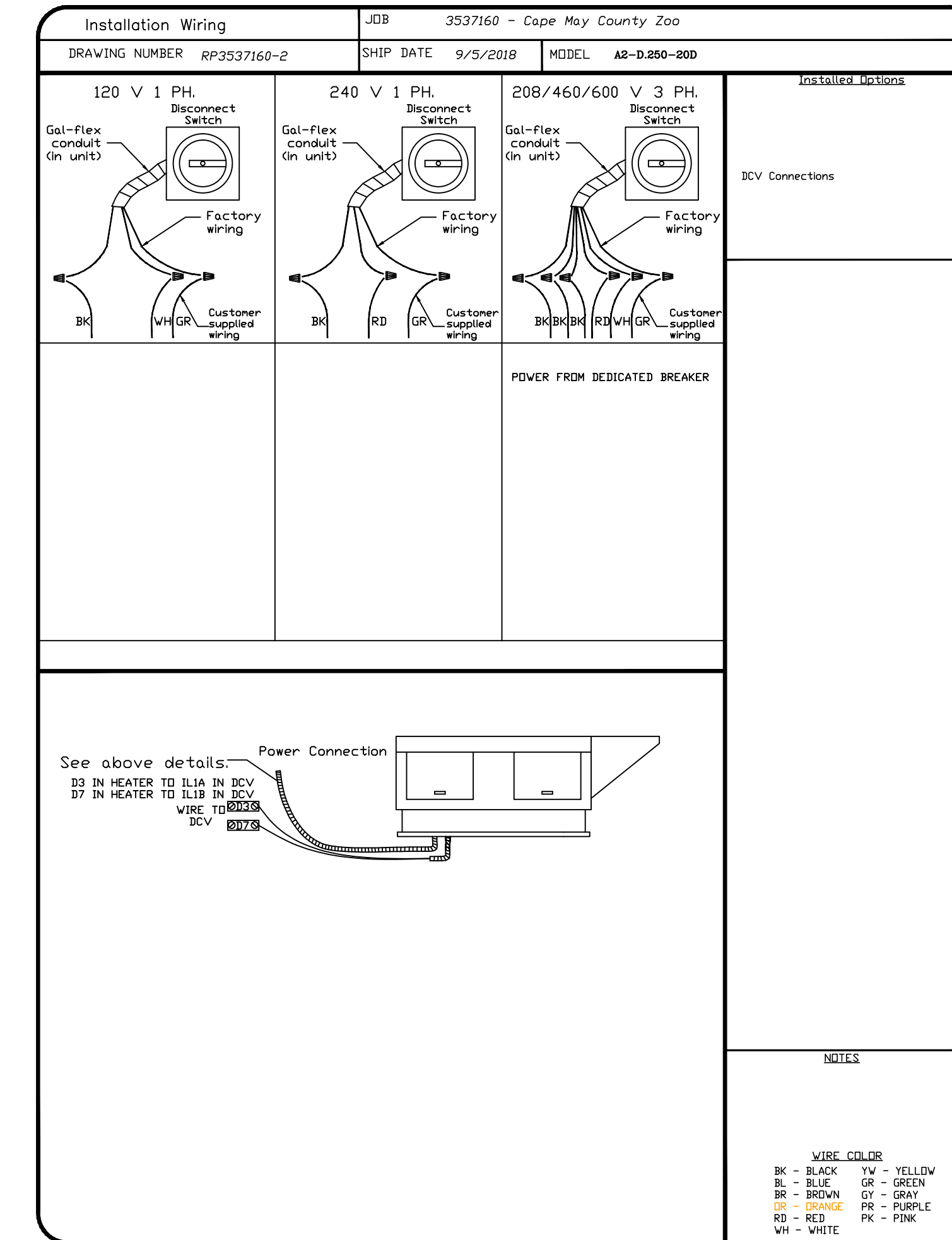
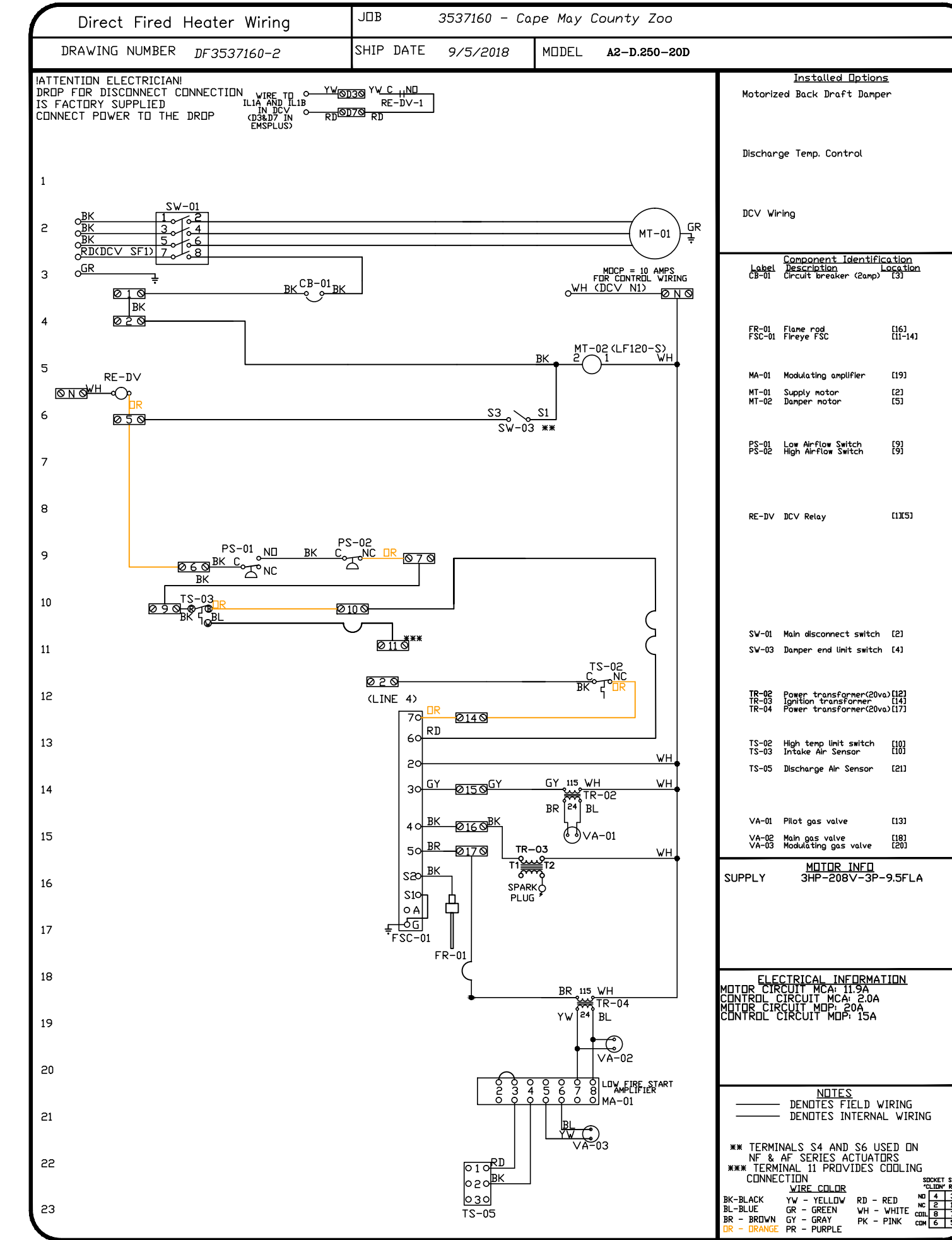
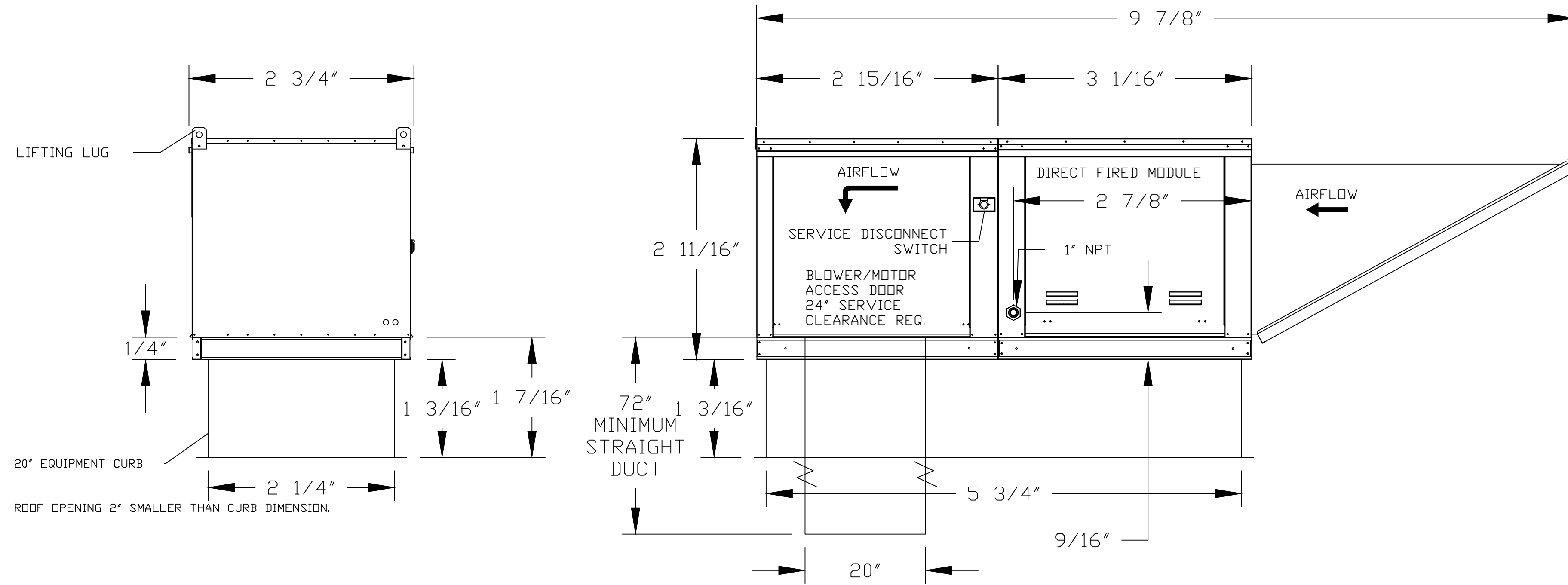
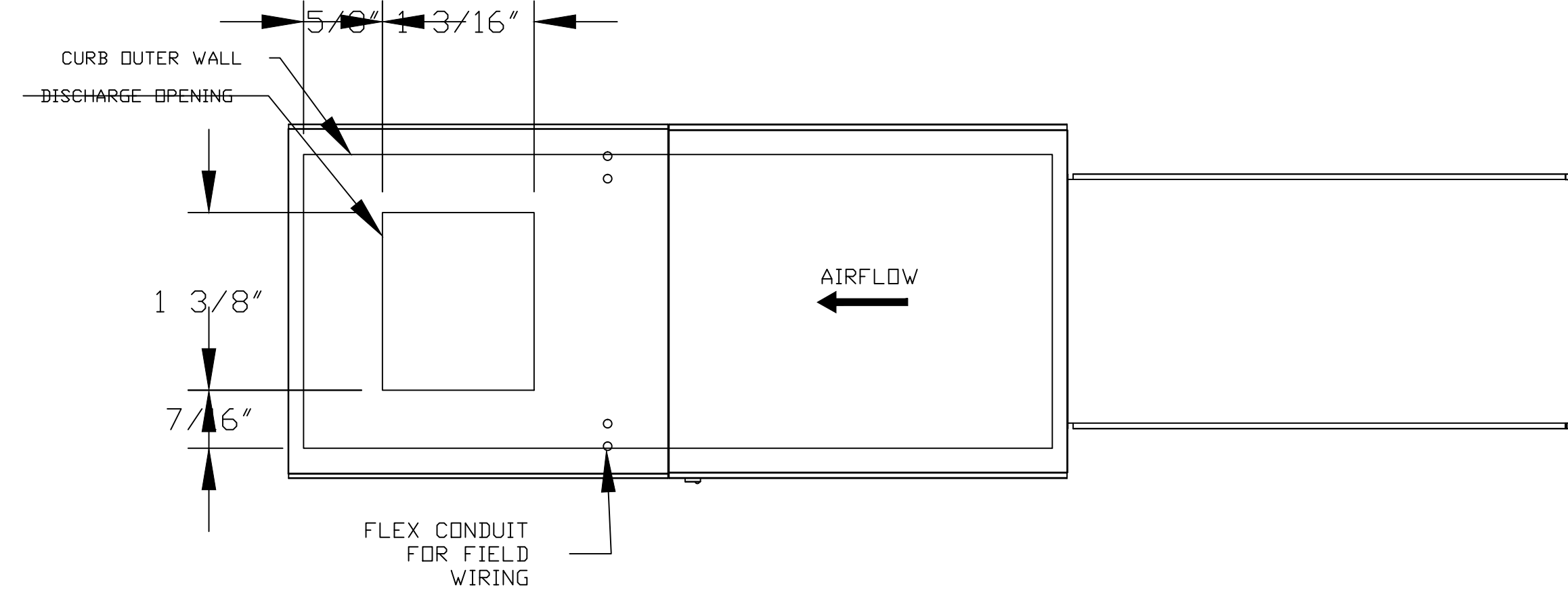
TITLE:
MECHANICAL KITCHEN HOOD SYSTEM - SHEET 5 OF 6
DWG. NO. **M-10**
DRAWN BY: PIS APPROVED BY: PIS
SCALE: 1/4" = 1'-0" JOB#: 1610-021

REVIEW SET
9-14-18

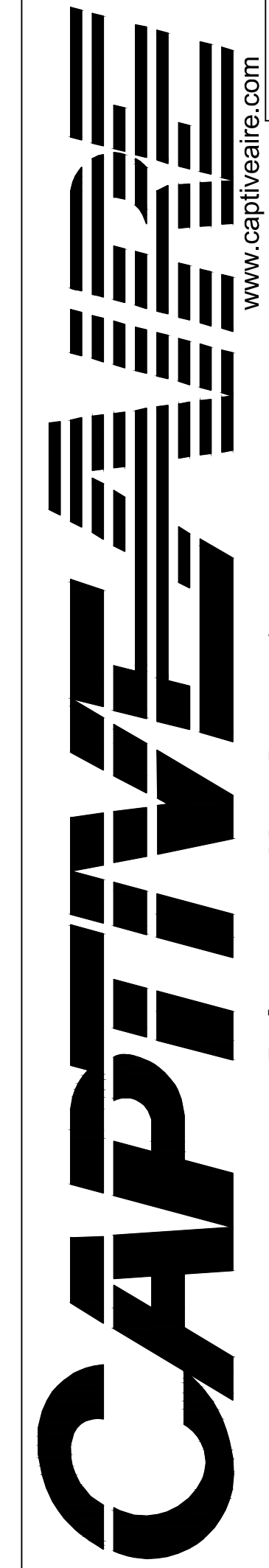
- FAN #2 A2-D250-20D - HEATER (HMAU-1)
- DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 20" DIRECT DRIVE FAN
 - INTAKE HOOD WITH E2 FILTERS
 - DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT
 - MOTORIZED BACK DRAFT DAMPER 22.75" X 24" FOR SIZE 2 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, LF120S ACTUATOR INCLUDED
 - LOW FIRE START, ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
 - GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE
 - GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE
 - SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MAIN SWITCH.
 - PROFILE PLATE CONFIGURATION FOR SIZE 2 DIRECT FIRED UNIT FOR LOW CFM APPLICATIONS.
- NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE UNLESS OTHERWISE SPECIFIED. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 20" X 20" X 72" LONG.

SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 19°F. TEMP. RISE = 56°F.
 BTUS CALCULATED OFF ACTUAL AIR DENSITY
 OUTPUT BTUS AT ALTITUDE OF 0.0 FT. = 223753
 INPUT BTUS AT ALTITUDE OF 0.0 FT. = 243210
 OUTPUT BTUS AT ALTITUDE OF 9 FT. = 223680
 INPUT BTUS AT ALTITUDE OF 9 FT. = 243131



REVISIONS	
DESCRIPTION	DATE



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Cape May County Zoo
 CAPE MAY COURT HOUSE, NJ

DATE: 9/5/2018
 DWG.#: 3537160
 DRAWN BY: JRE
 SCALE: NTS
 SPEC - FANS
 SHEET NO. 6

REVIEW SET
 9-14-18

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 MEDIA, PA 19063

CAPE MAY COUNTY ZOO SAFARI CAFE 2 NEW RETAIL FOOD BUILDING
 707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210

TITLE:
MECHANICAL KITCHEN HOOD SYSTEM - SHEET 6 OF 6
 DWG. NO. **M-11**
 DRAWN BY: PJS APPROVED BY: PJS
 SCALE: 1/4" = 1'-0" JOB#: 1610-021

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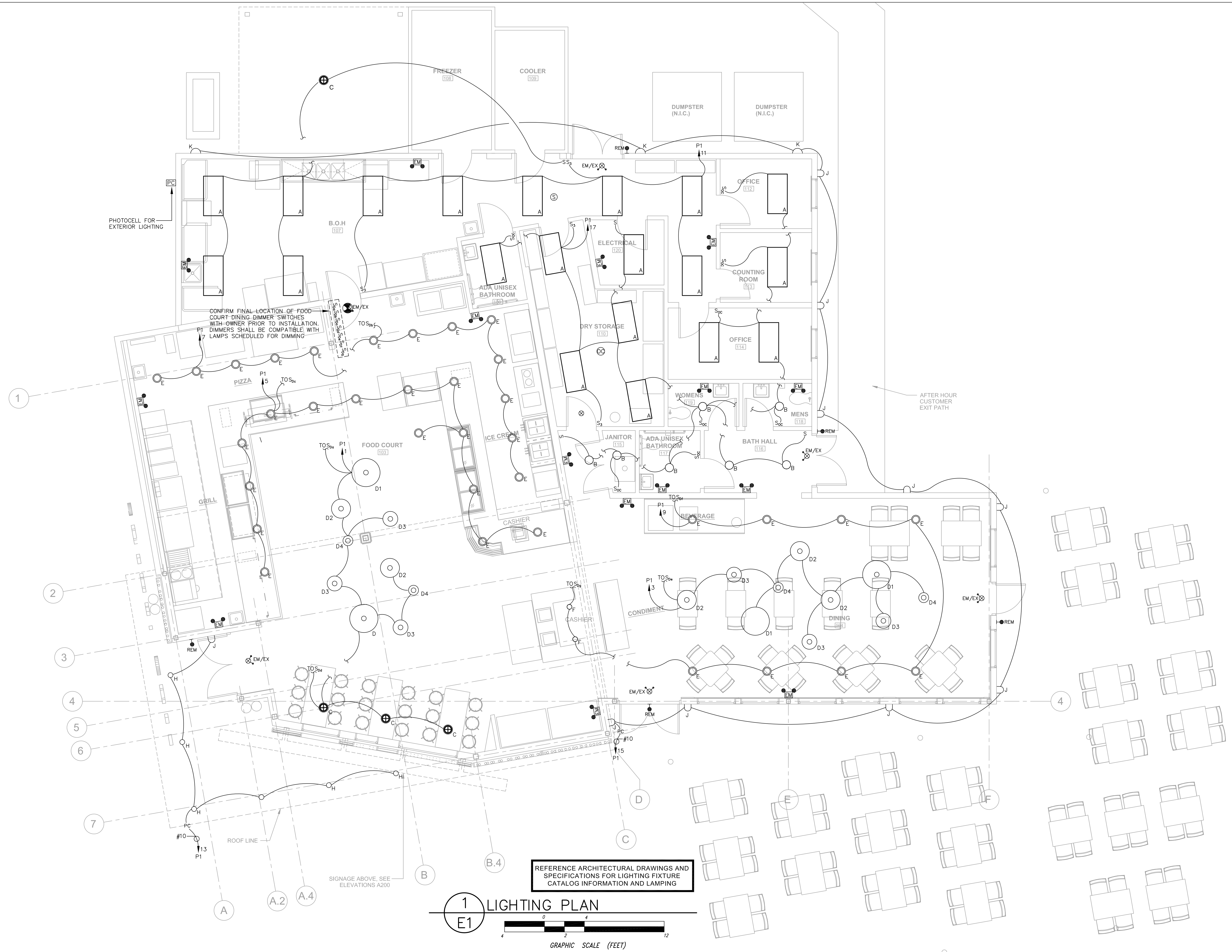
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MULHERN CONSULTING ENGINEERS
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 HATBORO, PA 19040
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STRUCTURAL ENGINEER:
CKS STRUCTURES, INC.
 280 N. PROVIDENCE RD, SUITE 105
 MEDIA, PA 19063

**CAPE MAY COUNTY ZOO SAFARI
 CAFE 2 NEW RETAIL FOOD BUILDING**
 707 ROUTE 9 NORTH, CAPE MAY COURT
 HOUSE, NJ 08210

TITLE:
LIGHTING PLAN
 DWG. NO.
E1

APPROVED BY: TWM
 SCALE: AS NOTED JOB#: 1610-021



1 LIGHTING PLAN
 E1
 GRAPHIC SCALE (FEET)

SUPPLEMENTAL LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	REMARKS
EXIT SIGN	EXIT SIGN, RED LETTERS ON WHITE FACE NUMBER OF DIRECTIONAL ARROWS AS REQUIRED, INTEGRAL BACKUP	EMERGI-LITE	CER	LED	PROVIDE WITH UNIVERSAL MOUNTING KIT AS REQUIRED PROVIDE INTEGRAL EMERGENCY BATTERY BACK-UP, NUMBER OF FACES AND ARROWS AS REQUIRED, CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING
EM	EMERGENCY BATTERY UNIT WITH NO REMOTE HEAD CAPABILITY	EMERGI-LITE	DLM-2	(2) 6V, 5.4W	CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHING
EM/EX	COMBINATION EXIT AND EMERGENCY LIGHT WITH REMOTE CAPABILITY, RED LETTERS	EMERGI-LITE	ELXN400R-2LED-R	(2) MR16 6V-5.4W LAMPS	CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHING
REM	REMOTE EMERGENCY BATTERY HEAD (2) HEADS	EMERGI-LITE	PROVIDE WITH EMEX		CONNECT TO NEAREST EXEM

REVIEW SET
 11-14-18

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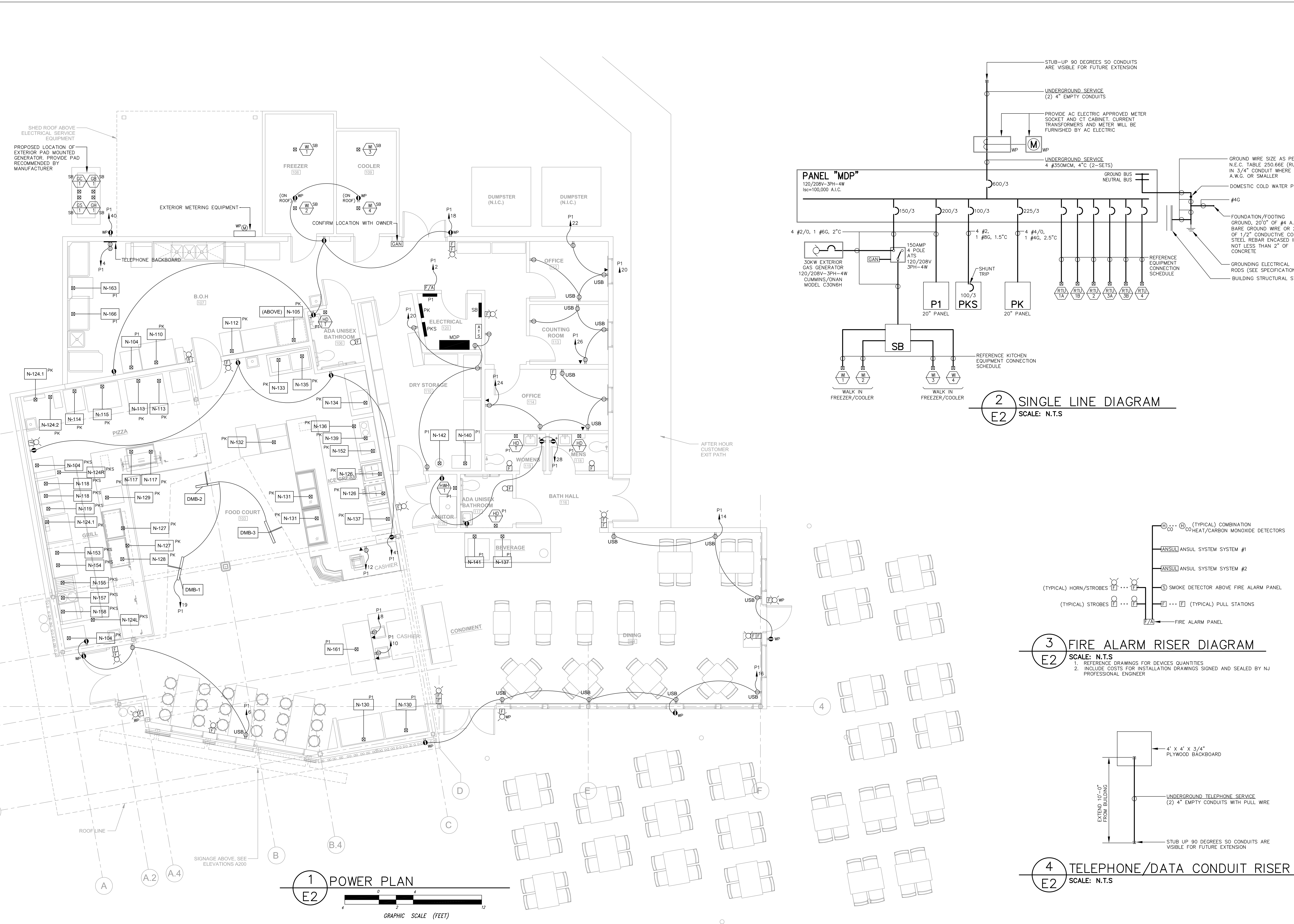
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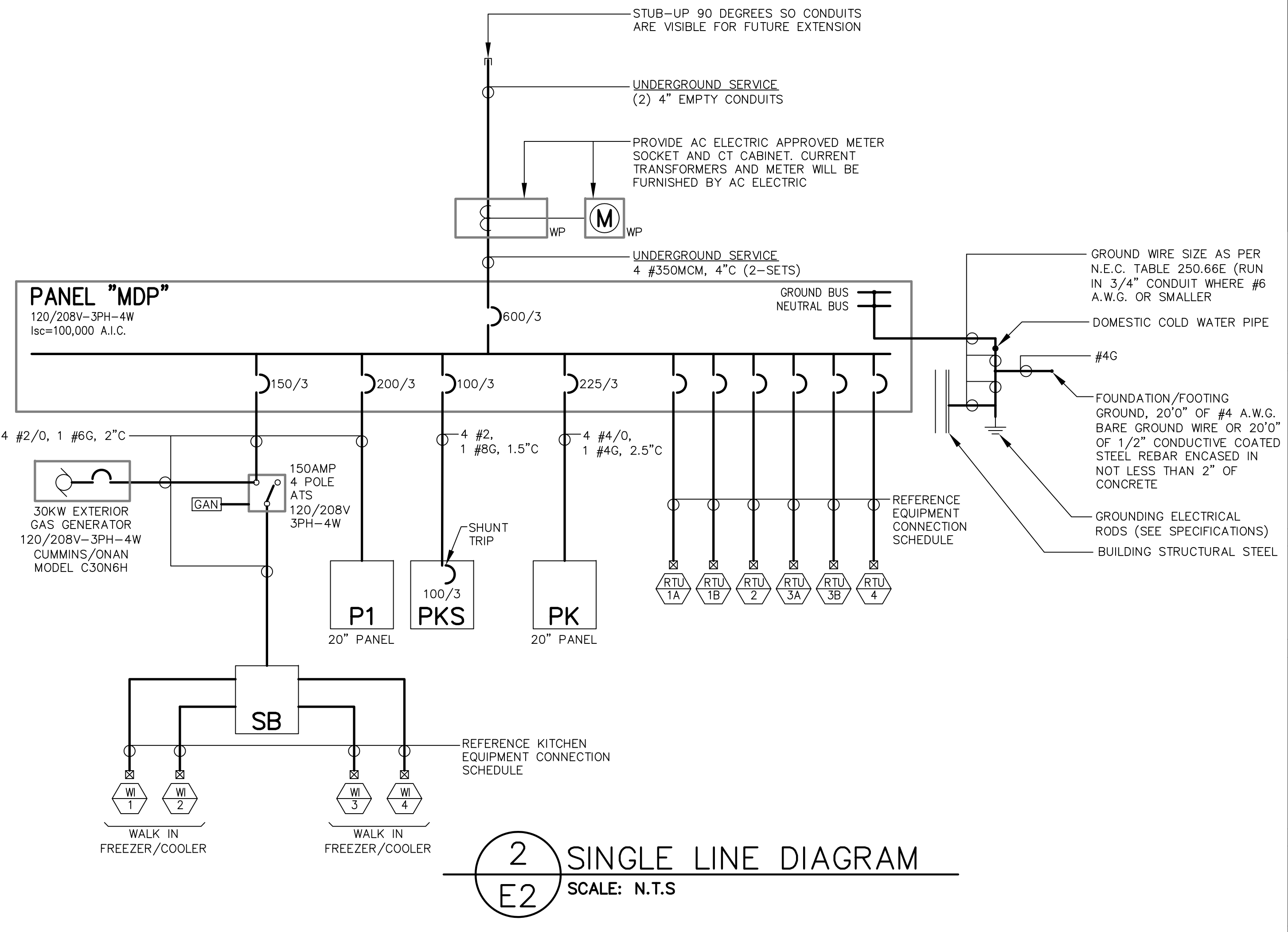
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**CAPE MAY COUNTY ZOO SAFARI
 CAFE 2 NEW RETAIL FOOD BUILDING**
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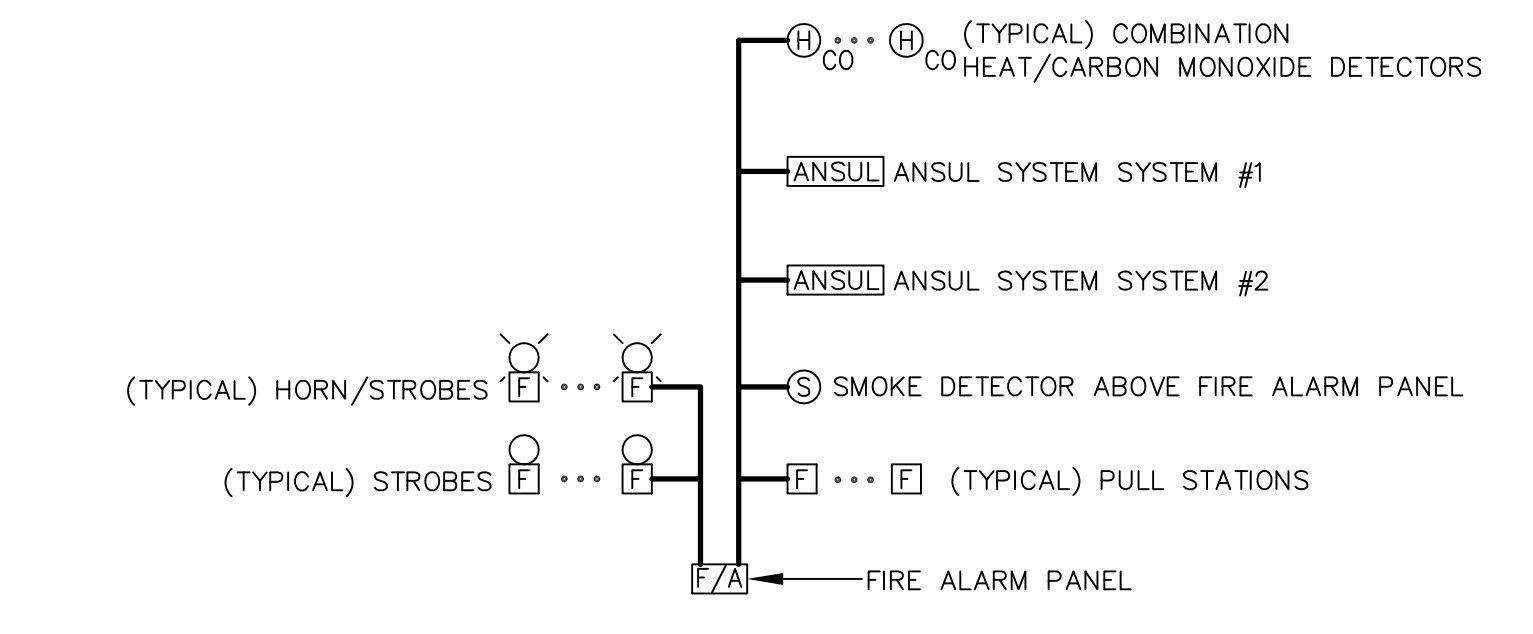
TITLE: **POWER PLAN**
 DWG. NO. **E2**
 DRAWN BY: KMT APPROVED BY: TWM
 SCALE: AS NOTED JOB#: 1610-021



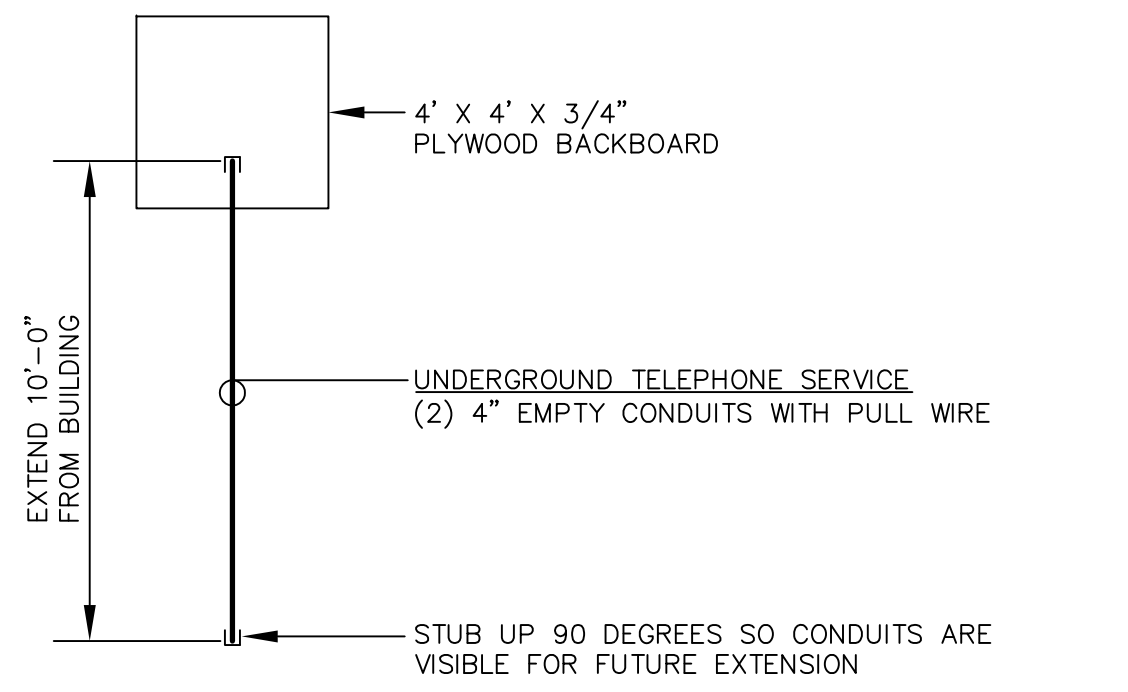
1 POWER PLAN
 E2
 GRAPHIC SCALE (FEET)



2 SINGLE LINE DIAGRAM
 E2
 SCALE: N.T.S.



3 FIRE ALARM RISER DIAGRAM
 E2
 SCALE: N.T.S.
 1. REFERENCE DRAWINGS FOR DEVICES QUANTITIES
 2. INCLUDE COSTS FOR INSTALLATION DRAWINGS SIGNED AND SEALED BY NJ PROFESSIONAL ENGINEER

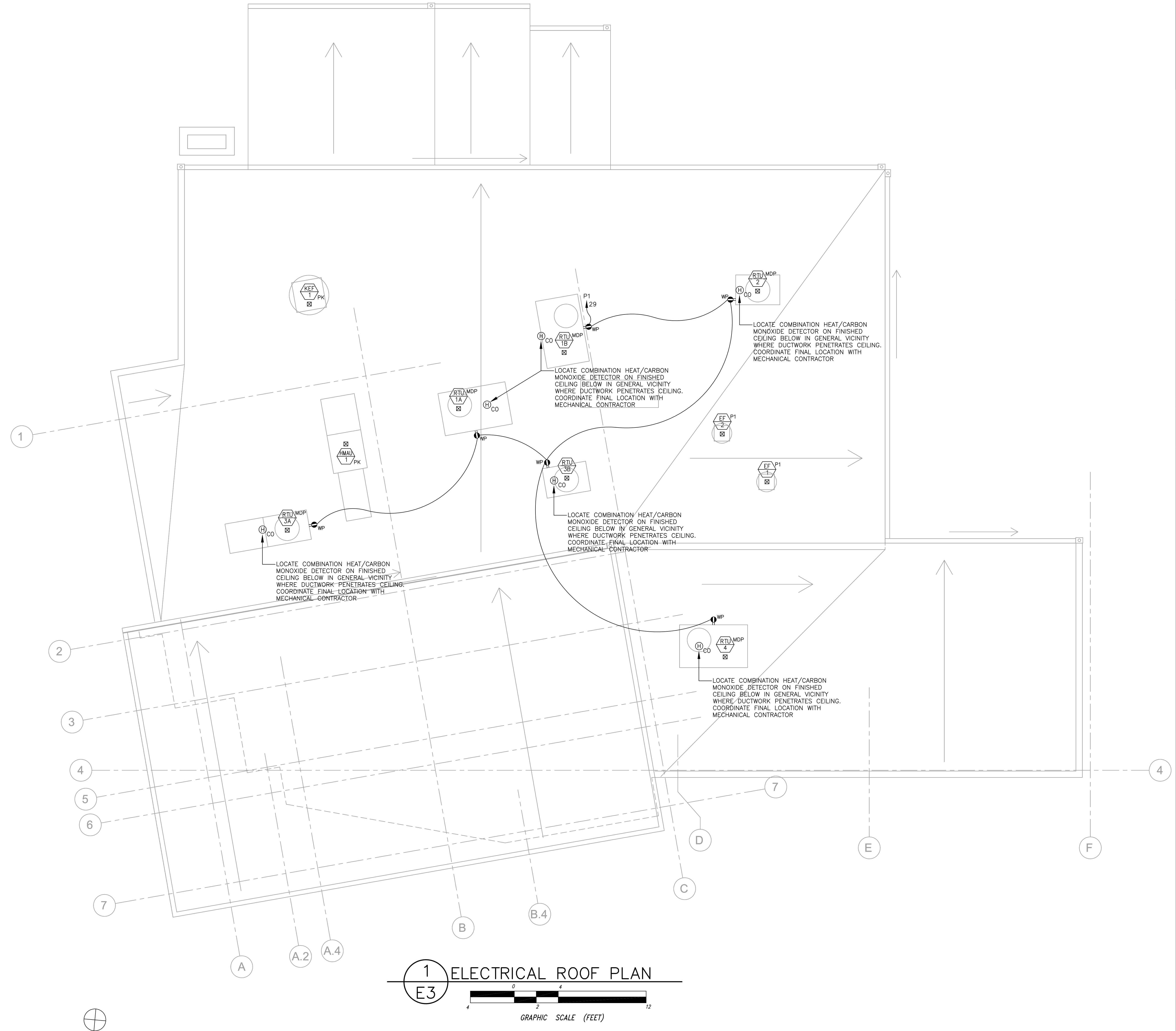


4 TELEPHONE/DATA CONDUIT RISER
 E2
 SCALE: N.T.S.

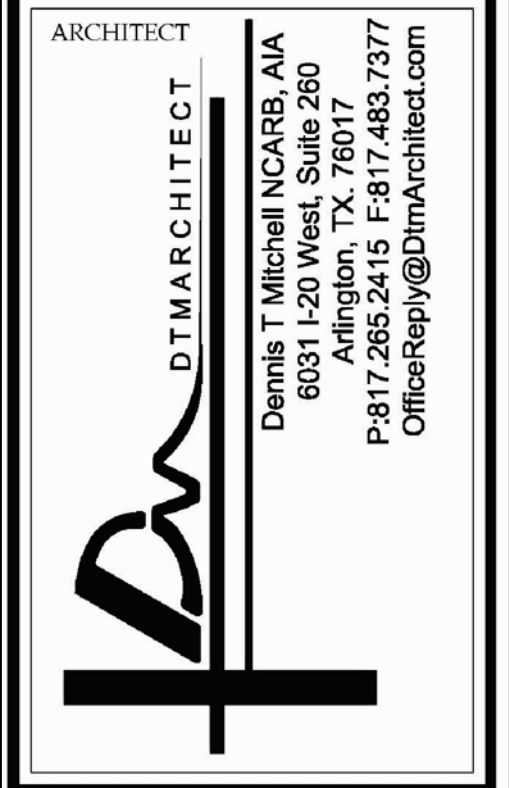
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ELECTRICAL SYMBOL LIST

- S₃ S₄ 20 A, 277/120 V SWITCH, SINGLE POLE (S), THREE-WAY (S-3), AND FOUR-WAY (S-4), RESPECTIVELY, SPECIFICATION GRADE, FLUSH MOUNTED, FINISH AND COVER PLATE AS PER ARCHITECT
- 0-10 V, 30 Ma, 8 A, 120/277 V, LIGHT EMITTING DIODE (LED) DRIVER OR FLUORESCENT ELECTRONIC BALLAST DIMMER SWITCH (S-D), SINGLE POLE, SLIDE TYPE (WITHOUT ON/OFF TOGGLE OR ROCKER SWITCH), FULLY RATED, SPECIFICATION GRADE, FLUSH MOUNTED, LOW PROFILE, FINISH AND COVER PLATE AS PER ARCHITECT; OF A TYPE COMPATIBLE WITH THREE-WAY OPERATION VIA REMOTE STANDARD THREE-WAY SWITCHES; LUTRON #DSTV-** (OR APPROVED EQUAL), UTILIZE EXACT RESPECTIVE DIMMER SWITCH TYPE COORDINATED WITH DIMMABLE LED DRIVERS OR DIMMABLE FLUORESCENT BALLASTS IN CONTROLLED LUMINAIRE (FULLY COORDINATE IN DETAIL WITH LUMINAIRE AND DIMMER MANUFACTURER AND INCLUDE COSTS IN BID TO USE DIFFERENT TYPES OF DIMMER SWITCHES AS APPLICABLE FOR EACH DIFFERENT LUMINAIRE TYPE CONTROLLED); WHERE CIRCUIT LOAD EXCEEDS 8 A UTILIZE #PP-DV POWER PACK(S) AS REQUIRED TO FACILITATE LOAD
- OC OCCUPANCY/VACANCY SENSOR LIGHTING CONTROL WITH INTEGRAL MANUAL OVERRIDE TO "ON" PUSH BUTTON (S-OC), FLUSH MOUNTED ON WALL (ON FLUSH MOUNTED OUTLET BOX), SELF-CONTAINED "STAND-ALONE" TYPE (SINGLE SENSOR FOR LOCAL LIGHTING CONTROL OF A SINGLE CIRCUIT ONLY), MULTI-TECHNOLOGY PASSIVE INFRARED (PIR) AND ULTRASONIC TYPE WITH INTEGRAL SWITCHING RELAY, RATED MINIMUM 800 W, 1,200 VA FOR 120 V OPERATION AND RATED MINIMUM 2,700 VA FOR 277 V OPERATION, SINGLE POLE, NOMINAL 93 m² (1,000 SQ FT) COVERAGE, MEETING NEMA WD7 STANDARD, INTEGRAL SELECTABLE AMBIENT LIGHT LEVEL SENSOR, SELECTABLE AUTOMATIC (OCCUPANCY SENSOR) OR MANUAL (VACANCY SENSOR) MODES, SPECIFICATION GRADE, WHITE FINISH, EATON/COOPER #ONW-D-1001-MV-* (OR APPROVED EQUAL)
- OC OCCUPANCY SENSOR LIGHTING CONTROL [OC], FLUSH MOUNTED IN CEILING, FOR COMMON CONTROL OF LIGHTING (MULTIPLE SENSORS FOR LIGHTING CONTROL IN CONJUNCTION WITH REMOTE LIGHTING CONTROL RELAY MODULE(S)), MULTI-TECHNOLOGY PASSIVE INFRARED (PIR) AND ULTRASONIC TYPE, 360 DEGREE NOMINAL 186 m² (2,000 SQ FT) COVERAGE, MEETING NEMA WD7 STANDARD, INTEGRAL SELECTABLE AMBIENT LIGHT LEVEL SENSOR, SPECIFICATION GRADE, WHITE FINISH; PROVIDE LOW VOLTAGE CONTROL WIRING AS REQUIRED BETWEEN SENSOR AND CONTROL RELAY
- EXIT SIGN, TYPE ("EXIT" UNLESS INDICATED OTHERWISE) AS INDICATED ON THE SUPPLEMENTAL LIGHTING FIXTURE SCHEDULE
- COMBINATION EXIT/EMERGENCY UNIT, TYPE ("EX/EM" UNLESS INDICATED OTHERWISE) AS INDICATED ON THE SUPPLEMENTAL LIGHTING FIXTURE SCHEDULE, WITH INTEGRAL BATTERY BACKUP
- EMERGENCY LIGHTING BATTERY UNIT, TYPE ("EM" UNLESS INDICATED OTHERWISE) AS INDICATED ON THE SUPPLEMENTAL LIGHTING FIXTURE SCHEDULE
- REMOTE EMERGENCY LIGHTING HEAD, TYPE AS INDICATED ON THE SUPPLEMENTAL LIGHTING FIXTURE SCHEDULE
- 20 A, 120 V DUPLEX RECEPTACLE (NEMA 5-20R), SPECIFICATION GRADE, TAMPER RESISTANT, FLUSH MOUNTED, FINISH AND COVER PLATE AS PER ARCHITECT, (+) INDICATES ABOVE COUNTER MOUNTING HEIGHT, (*) INDICATES MOUNTED HIGH ON WALL AT DISPLAY/SCREEN
- 20 A, 120 V DUPLEX GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLE (NEMA 5-20R), SPECIFICATION GRADE, TAMPER RESISTANT, FLUSH MOUNTED, FINISH AND COVER PLATE AS PER ARCHITECT, (+) INDICATES ABOVE COUNTER MOUNTING HEIGHT, (*) INDICATES MOUNTED HIGH ON WALL AT DISPLAY/SCREEN
- 20 A, 120 V COMBINATION DUPLEX RECEPTACLE (NEMA 5-20R) AND DUPLEX UNIVERSAL SERIAL BUS (USB) CHARGER (U), WITH TWO (2) INTEGRAL 3.6 A, 5 VDC USB 2.0 PORTS (WITHOUT DATA CAPABILITY) POWERED FROM INTERNAL DIGITAL DC POWER SUPPLY DESIGNED TO OPTIMIZE PERIPHERAL DEVICE CHARGING, SPECIFICATION GRADE, TAMPER RESISTANT, FLUSH MOUNTED, FINISH AND COVER PLATE AS PER ARCHITECT, (+) INDICATES ABOVE COUNTER MOUNTING HEIGHT, (*) INDICATES MOUNTED HIGH ON WALL AT DISPLAY/SCREEN
- QUADRUPEX ("DOUBLE DUPLEX") RECEPTACLE, WITH RECEPTACLE TYPE AS INDICATED
- EQUIPMENT CONNECTION, REFER TO THE EQUIPMENT SCHEDULE OR KITCHEN EQUIPMENT CONNECTION SCHEDULE AND THE EQUIPMENT NOTES FOR INFORMATION
- EQUIPMENT DESIGNATION, FOR REFERENCE TO THE EQUIPMENT SCHEDULE
- KITCHEN EQUIPMENT DESIGNATION, FOR REFERENCE TO THE EQUIPMENT SCHEDULE
- ELECTRICAL PANEL, REFER TO THE SINGLE LINE DIAGRAM AND RESPECTIVE PANEL SCHEDULE
- ELECTRICAL JUNCTION BOX (J-BOX), AS INDICATED ON THE DRAWINGS, WHERE JUNCTION BOX SERVES EQUIPMENT, PROVIDE COMPLETE EQUIPMENT CONNECTIONS AS REQUIRED
- PHOTOCELL (PC), REFER TO SPECIFICATIONS, WALL MOUNTED
- INDICATES HOME RUN OF WIRING TO PANEL AND CIRCUIT INDICATED
- INDICATES PASS CIRCUIT THROUGH PHOTOCELL (PC)
- TELEPHONE/DATA OUTLET, FLUSH MOUNTED, PROVIDE SUITABLE OWNER APPROVED OUTLET BOX (INCLUDE COSTS IN BID FOR 2-GANG OUTLET) IN WALL AND 27 mm (1") CONDUIT (WITH PULL WIRE) RUN FROM OUTLET STUBBED AND CAPPED INTO NEARBY ACCESSIBLE CEILING SPACE, (+) INDICATES ABOVE COUNTER MOUNTING HEIGHT OR WALL MOUNTED TELEPHONE MOUNTING HEIGHT (COORDINATE WITH ARCHITECT/OWNER DURING CONSTRUCTION), (*) INDICATES MOUNTED HIGH ON WALL AT DISPLAY/SCREEN
- EMERGENCY GENERATOR REMOTE ANNUNCIATOR PANEL (GAN), EXACT TYPE TO MATCH EMERGENCY GENERATOR, FLUSH MOUNTED, REFER TO THE SINGLE LINE DIAGRAM AND THE SPECIFICATIONS
- FIRE ALARM CONTROL PANEL (F/A), ADDRESSABLE ANALOG TYPE, WITH INTEGRAL BATTERY BACKUP, WITH MINIMUM POINT ADDRESSES AS REQUIRED FOR CONNECTED DEVICES (OR 197 POINT ADDRESSES, WHICHEVER IS GREATER), WITH PROVISIONS TO EXPAND UP TO NOT LESS THAN 750 POINTS BY ADDING ADDRESSABLE ANALOG MODULES, WITH INTEGRAL 80-CHARACTER (MINIMUM) KEYBOARD DISPLAY UNIT; PROVIDE A TELEPHONE/DATA OUTLET (AS INDICATED ELSEWHERE ON THE ELECTRICAL SYMBOL LIST) MOUNTED ADJACENT TO CONTROL PANEL AND PROVIDE 27 mm (1") CONDUIT (WITH PULL WIRE) RUN FROM TELEPHONE/DATA OUTLET RUN TO THE MAIN TELEPHONE BACKBOARD
- FIRE ALARM REMOTE ANNUNCIATOR PANEL (ANN), 80-CHARACTER (MINIMUM) ALPHANUMERIC TYPE, EXACT MATCHING FIRE ALARM CONTROL PANEL, FLUSH MOUNTED, RED OR BEIGE FINISH AS PER ARCHITECT
- FIRE ALARM AUDIO/VISUAL HORN/STROBE, ADA APPROVED TYPE PROVIDING ADA APPROVED COVERAGE, WITH SYNCHRONIZED TYPE STROBE, SEMI-FLUSH MOUNTED
- FIRE ALARM VISUAL ONLY STROBE, ADA APPROVED TYPE PROVIDING ADA APPROVED COVERAGE, SYNCHRONIZED TYPE, FLUSH MOUNTED
- FIRE ALARM MANUAL PULL STATION, METAL, NON-CODED, DOUBLE ACTION TYPE, FLUSH MOUNTED, ADDRESSABLE TYPE
- FIRE ALARM SMOKE DETECTOR, ADDRESSABLE ANALOG PHOTOELECTRIC TYPE, WITH SUITABLE BASE
- FIRE ALARM COMBINATION SMOKE AND CARBON MONOXIDE (CO) DETECTOR (S)CO, ADDRESSABLE ANALOG PHOTOELECTRIC TYPE, WITH SUITABLE BASE
- FIRE ALARM COMBINATION HEAT AND CARBON MONOXIDE (CO) DETECTOR (H)CO, ADDRESSABLE ANALOG PHOTOELECTRIC TYPE, WITH SUITABLE BASE
- FIRE ALARM DUCT TYPE SMOKE DETECTOR (ADDRESSABLE ANALOG PHOTOELECTRIC TYPE) AND HVAC EQUIPMENT SHUTDOWN INTERFACE, IN DUCT HOUSING WITH SAMPLING TUBES TO SUIT DUCTWORK (COORDINATE REQUIREMENTS WITH M.C.); PROVIDE SHUTDOWN INTERFACE INCLUDING A SUITABLE ADDRESSABLE SUPERVISED OUTPUT RELAY MODULE EITHER INTEGRAL TO OR FIELD INSTALLED DIRECTLY ADJACENT TO DUCT HOUSING; PROVIDE A SUITABLE REMOTE TEST, RESET, AND ALARM INDICATING STATION WALL MOUNTED AT AN OWNER APPROVED LOCATION IN A CORRIDOR OR COMMON USE SPACE NEAR THE DETECTOR; E.C. SHALL FURNISH COMPLETE DUCT DETECTOR AND WIRE TO FIRE ALARM SYSTEM, WHERE EITHER THE HVAC EQUIPMENT AND/OR ANY ASSOCIATED DUCTWORK ARE NEW OR MODIFIED, M.C. SHALL INSTALL DETECTOR ON DUCTWORK AND M.C./ATC CONTRACTOR SHALL PROVIDE ALL HVAC SHUTDOWN INTERFACE WIRING FROM RELAY TO HVAC EQUIPMENT; WHERE BOTH THE HVAC EQUIPMENT AND ALL ASSOCIATED DUCTWORK ARE EXISTING TO REMAIN, E.C. SHALL INSTALL DETECTOR ON DUCTWORK (AS DIRECTED BY AND UNDER THE SUPERVISION OF THE M.C. AND MECHANICAL ENGINEER) AND PROVIDE ALL HVAC SHUTDOWN INTERFACE WIRING FROM RELAY TO HVAC EQUIPMENT (MAKING FINAL CONNECTIONS AT HVAC EQUIPMENT AS DIRECTED BY AND UNDER THE SUPERVISION OF THE M.C./ATC CONTRACTOR AND MECHANICAL ENGINEER)
- NATIONAL ELECTRICAL CODE (NEC), LATEST ADOPTED EDITION
- ELECTRICAL CONTRACTOR (EC)
- MECHANICAL CONTRACTOR (MC), INCLUDING ALL MECHANICAL TRADES IN GENERAL (MECHANICAL, HVAC, ATC, PLUMBING, FIRE PROTECTION, ETC.), REFER TO MECHANICAL DOCUMENTS FOR DISTINCTION BETWEEN CONTRACTORS/TRADES
- GENERAL CONTRACTOR (GC), INCLUDING ALL GENERAL CONSTRUCTION TRADES IN GENERAL (CARPENTRY, STEEL, CONCRETE, SITE, ETC.), REFER TO ARCHITECTURAL AND SITE DOCUMENTS FOR DISTINCTION BETWEEN CONTRACTORS/TRADES



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11-14-18



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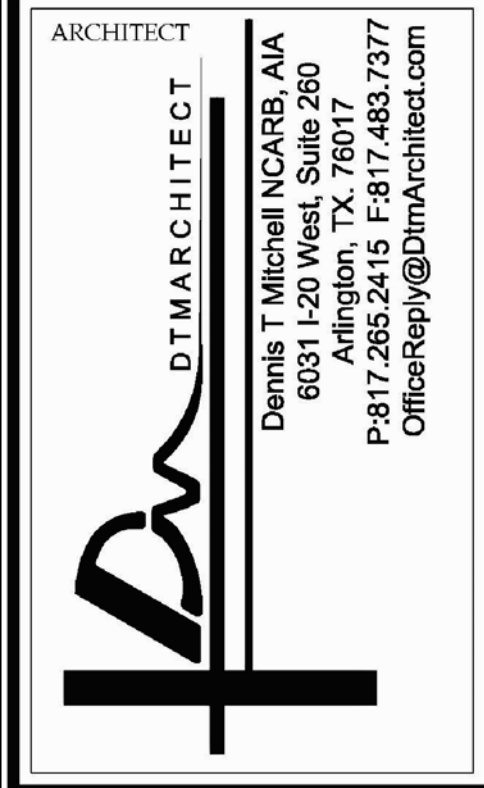
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JOB #5319

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ELECTRICAL ROOF PLAN
CAPE MAY COUNTY ZOO SAFARI
CAFE 2 NEW RETAIL FOOD BUILDING
707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210

DRAWN BY: KMT
SCALE: AS NOTED
APPROVED BY: TWM
JOB#: 1610-021

TITLE:
ELECTRICAL ROOF PLAN
DWG. NO.
E3



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MULHREN CONSULTING ENGINEERS 321 SOUTH YORK ROAD HATBORO, PA 19040 JOB # 5319

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CKS STRUCTURES, INC. 280 N. PROVIDENCE RD. SUITE 105 MEDIA, PA 19063

CAPE MAY COUNTY ZOO SAFARI CAFE 2 NEW RETAIL FOOD BUILDING 707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210

ELECTRICAL NOTES & DETAILS DWG. NO. E4

TITLE: E4

APPROVED BY: TWM SCALE: AS NOTED JOB#: 1610-021

REVIEW SET 11-14-18

KITCHEN EQUIPMENT CONNECTION SCHEDULE

Table with columns: EQUIP NUMBER, DESCRIPTION, RATED VOLTAGE/ PHASE, LOAD (VA), HORSE POWER/ KW, BREAKER AMPS/ POLES, PANEL, PLUG-IN RECEPTACLE NEMA CONFIG, DISCONNECT SWITCH AMPS/POLES, CIRCUIT, REMARKS. Lists various kitchen equipment like refrigerators, ovens, and freezers.

NOTES: 1) PRIOR TO ROUGH-IN OR PURCHASING ANY ELECTRICAL EQUIPMENT ASSOCIATED WITH ANY EQUIPMENT SHOWN ON THE SCHEDULE ABOVE... 2) INCLUDE COSTS TO MOUNT AND WIRE FOUR (4) FOUR FOOT LIGHTING FIXTURES... 3) WHERE INDICATED ON THE SCHEDULE ABOVE, CONNECT EQUIPMENT TO PANEL 'PKS'...

EQUIPMENT CONNECTION SCHEDULE

Table with columns: EQUIP NUMBER, DESCRIPTION, RATED VOLTAGE/ PHASE, LOAD (VA), HORSE POWER/ KW, BREAKER AMPS/ POLES, PANEL, PLUG-IN RECEPTACLE NEMA CONFIG, DISCONNECT SWITCH AMPS/POLES, CIRCUIT, REMARKS. Lists equipment like rooftop units, exhaust fans, and heaters.

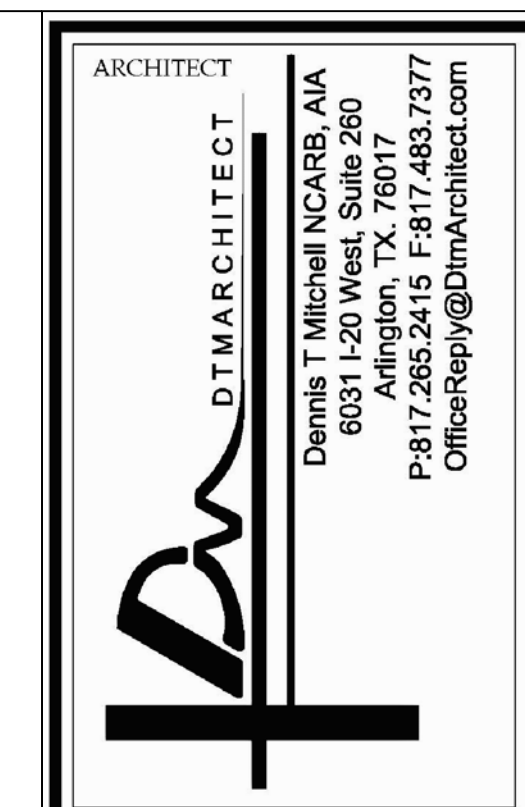
NOTES: 1) PRIOR TO ROUGH-IN OR PURCHASING ANY ELECTRICAL EQUIPMENT ASSOCIATED WITH ANY EQUIPMENT SHOWN ON THE SCHEDULE ABOVE... 2) WHERE INDICATED ON THE SCHEDULE ABOVE, ELECTRICAL CHARACTERISTICS FOR GENERATOR ACCESSORY EQUIPMENT ARE APPROXIMATE AS A GUIDE TO PRICING...

ELECTRICAL NOTES

- 1) PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE LATEST ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC), OSHA REQUIREMENTS, ALL FEDERAL, STATE, AND LOCAL CODES AND ALL OWNER REQUIREMENTS.
2) INCLUDE ALL TEMPORARY POWER AND LIGHTING, PERMIT, LICENSE, AND INSPECTION COSTS IN BID.
3) VERIFY EXACT LOCATIONS AND MOUNTING OF ALL LUMINAIRES, SWITCHES, RECEPTACLES, OUTLETS, FIRE ALARM, AND OTHER EQUIPMENT...

EQUIPMENT CONNECTION NOTES

- 1) EXACT DETAILS OF EQUIPMENT CONNECTIONS ARE NOT INDICATED ON THE ELECTRICAL FLOOR PLAN DRAWINGS. EQUIPMENT CONNECTIONS ARE INDICATED ON THE EQUIPMENT CONNECTION SCHEDULES ON THE ELECTRICAL DRAWINGS. APPROXIMATE EQUIPMENT LOCATIONS ONLY ARE INDICATED ON THE FLOOR PLAN DRAWINGS.
2) THE EQUIPMENT SCHEDULES INDICATE THE EQUIPMENT NAMEPLATE ELECTRICAL CHARACTERISTICS (VOLTAGE, PHASE, AND LOAD AS WELL AS HORSEPOWER, WHERE APPLICABLE), PANEL AMPS/POLES, LOCAL DISCONNECTING MEANS (CORD-AND-PLUG [INCLUDING NEMA CONFIGURATION] OR SWITCH), AND CIRCUIT WIRE AND CONDUIT.
3) PRIOR TO ROUGH-IN, VERIFY EXACT POINT OF ELECTRICAL CONNECTION TO EACH PIECE OF EQUIPMENT IN THE FIELD TO AVOID PLACING SERVICE AT THE WRONG LOCATION.



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MEP ENGINEER:

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MULHERN CONSULTING ENGINEERS 321 SOUTH YORK ROAD HATBORO, PA 19040 JOB #5319

STRUCTURAL ENGINEER:

CKS STRUCTURES, INC. 280 N. PROVIDENCE RD. SUITE 105 MEDIA, PA 19063

TITLE: ELECTRICAL DETAILS DWG. NO. E5 APPROVED BY: TWM DATE: 1610-021 SCALE: AS NOTED JOB#: 1610-021

CAPE MAY COUNTY ZOO SAFARI CAFE 2 NEW RETAIL FOOD BUILDING

707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210

Electrical panel schedule table for SAFARI CAFE 2, CAPE MAY COURTHOUSE NJ. Includes description, equipment ratings, and load calculations.

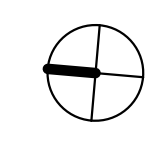
Electrical panel schedule table for SAFARI CAFE 2, CAPE MAY COURTHOUSE NJ. Includes description, equipment ratings, and load calculations.

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REVIEW SET 11-14-18



1 FIRST FLOOR SANITARY & VENTING PLAN
1/4" = 1'-0"

PROGRESS
09-14-18

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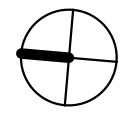
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**CAPE MAY COUNTY ZOO SAFARI
CAFE 2 NEW RETAIL FOOD BUILDING**
707 ROUTE 9 NORTH, CAPE MAY COURT
HOUSE, NJ 08210

TITLE:
SANITARY & VENTING
FLOOR PLAN
DWG. NO. **P-1**
DRAWN BY: SJM APPROVED BY: PJS
SCALE: 1/4" = 1'-0" JOB# 1610-021



① FIRST FLOOR DOMESTIC WATER PLAN
1/4" = 1'-0"

PROGRESS
09-14-18

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**CAPE MAY COUNTY ZOO SAFARI
CAFE 2 NEW RETAIL FOOD BUILDING**
707 ROUTE 9 NORTH, CAPE MAY COURT
HOUSE, NJ 08210

TITLE:
FIRST FLOOR DOMESTIC
WATER PLAN
DWG. NO. **P-2**
DRAWN BY: SJM APPROVED BY: PJS
SCALE: 1/4" = 1'-0" JOB#: 1610-021

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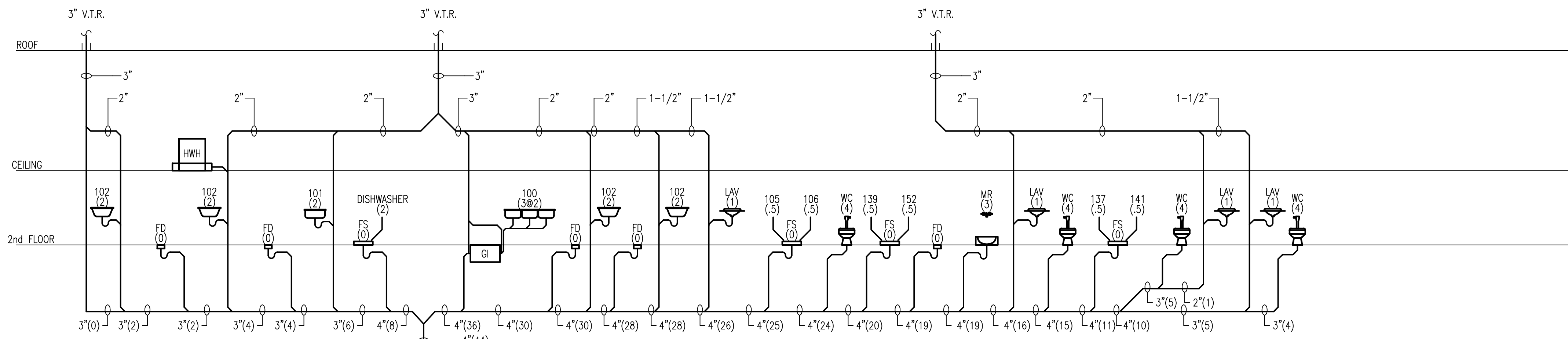
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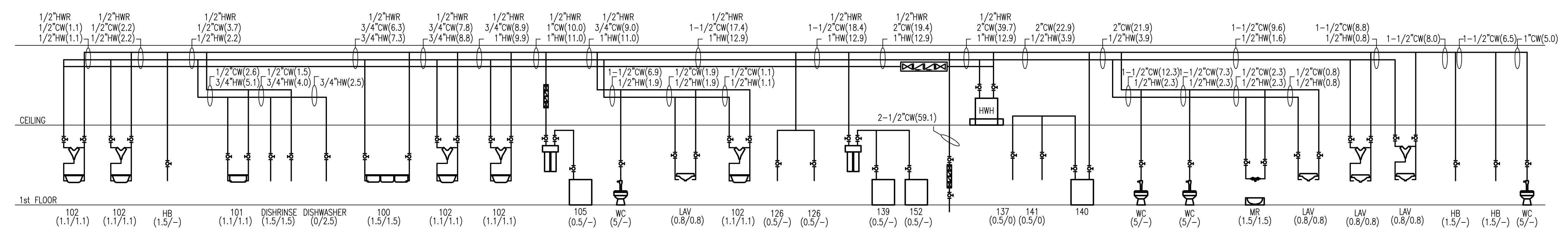
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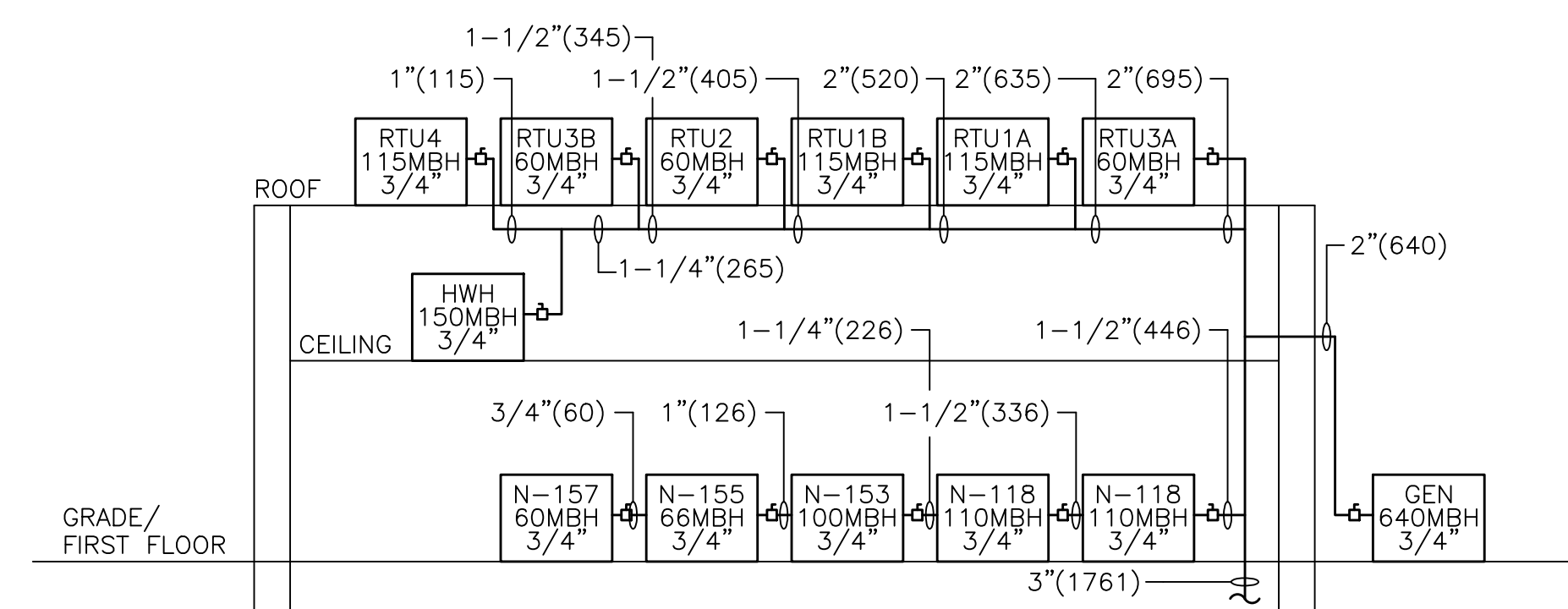


SANITARY RISER DIAGRAM NOTES:
 1. DRAINAGE FIXTURE UNITS SHOWN IN 0
 2. ALL PIPING SLOPED 1/8" PER FOOT UNLESS NOTED OTHERWISE

① SANITARY & VENTING RISER DIAGRAM
 N. T. S.



② DOMESTIC WATER RISER DIAGRAM
 N. T. S.



NOTE:
 1. PIPE SIZING BASED ON MAXIMUM RUN OF 100 FEET AND PRESSURE OF 0.25 PSIG AT METER
 2. MBH INDICATED IN PARENTHESIS

③ NATURAL GAS RISER DIAGRAM
 N. T. S.

PROGRESS
 09-14-18

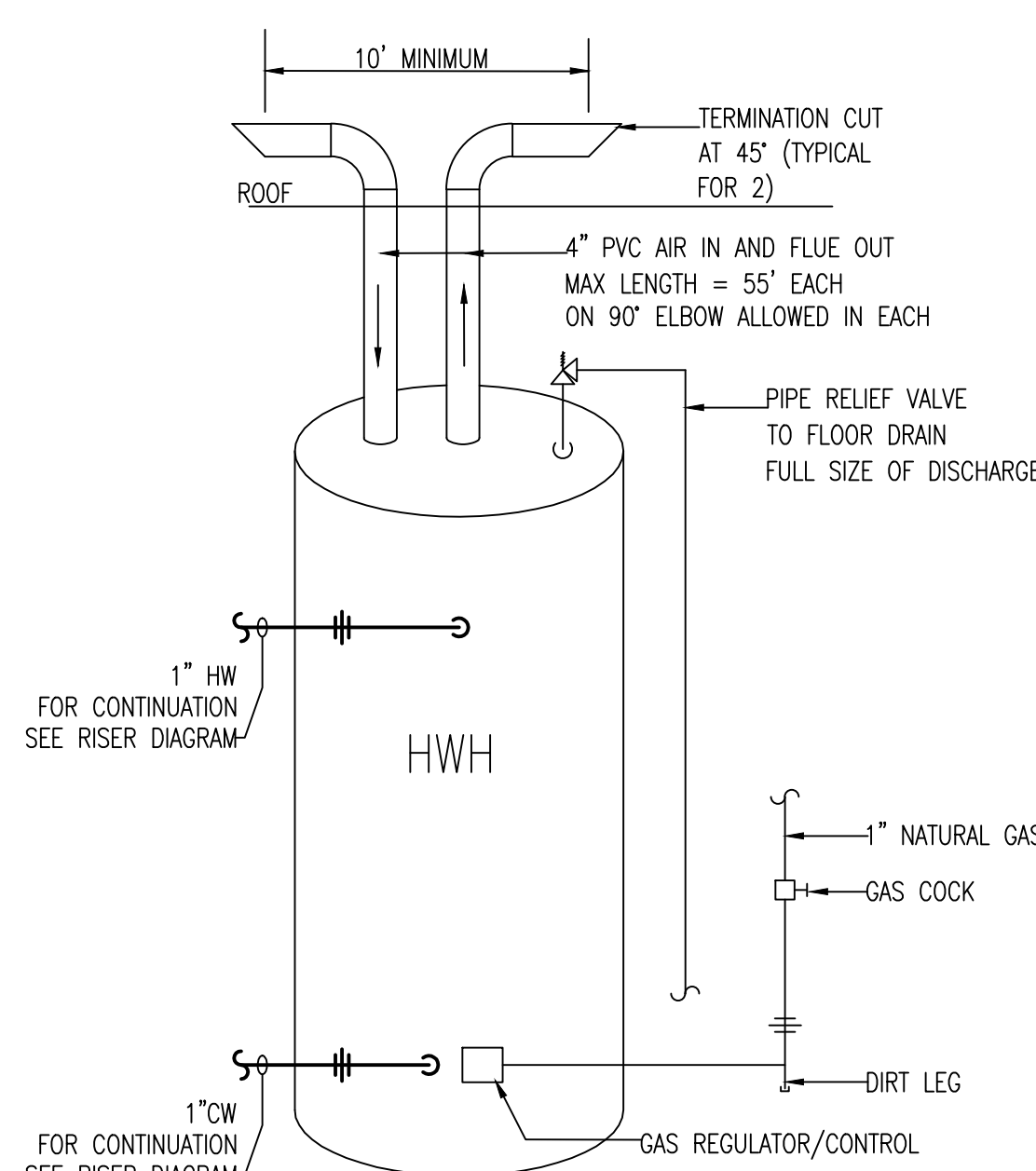
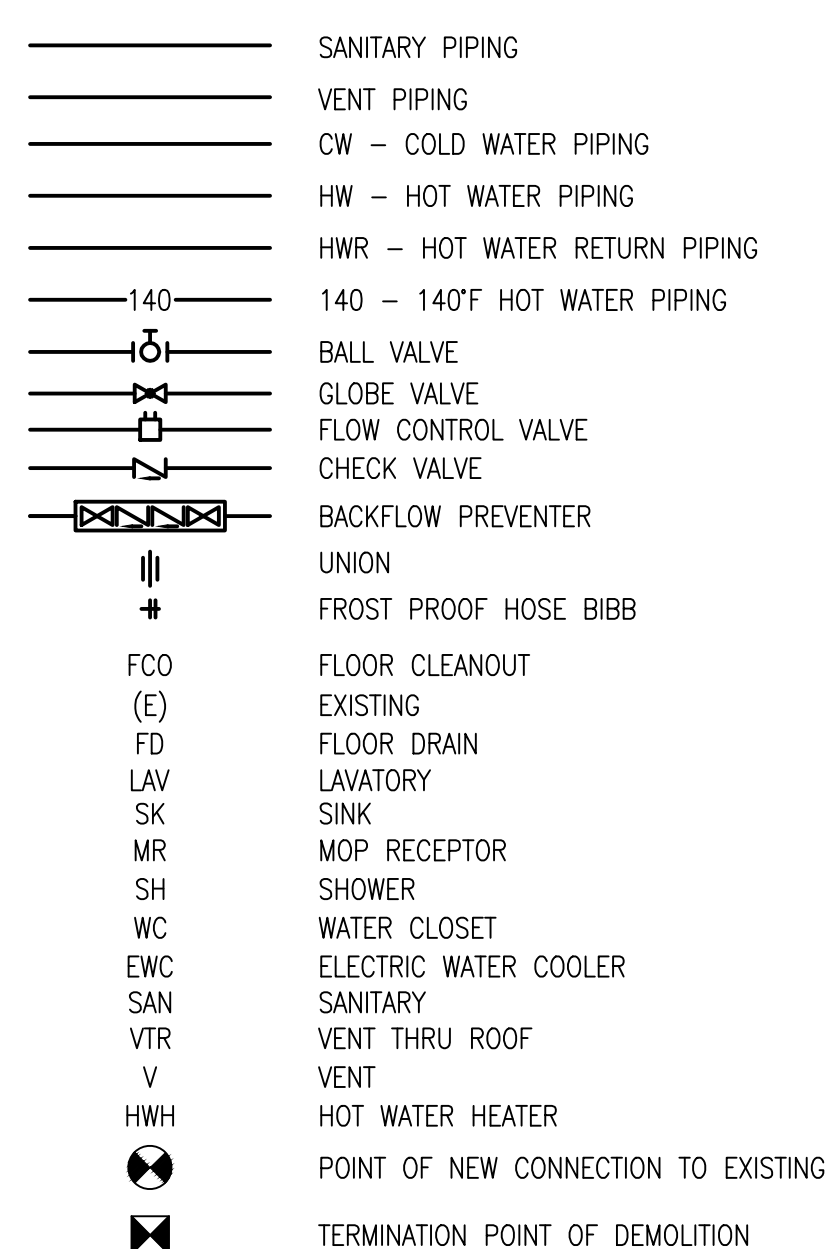
CAPE MAY COUNTY ZOO SAFARI
CAFE 2 NEW RETAIL FOOD BUILDING
 707 ROUTE 9 NORTH, CAPE MAY COURT
 HOUSE, NJ 08210

TITLE:
 PLUMBING RISER DIAGRAMS
 DWG. NO.
P-3
 DRAWN BY: SJM APPROVED BY: PJS
 SCALE: 1/4" = 1'-0" JOB#: 1610-021

FIXTURE SCHEDULE

Designation	Description	CW	HW	W
WC	KOHLER WELLWORTH 1.6 GPF COMMERCIAL ELONGATED TOILET #K-4406-L-0 VITREOUS CHINA, 1-1/2" TOP SPHD. INCLUDE K-4731-SC-0 STRONGHOLD SEAT WITH SELF-SUSTAINING CHECK HINGE TRIPPOINT TOUCHLESS FLUSHMETER K-7535-CP, OR EQUAL	1"		3"
LAV	KOHLER KINGSTON WALL MOUNT LAV #K-2005 VITREOUS CHINA, 4" CENTERS, ADA COMPLIANT, WHITE INCLUDE K-708-P ANGLE SUPPLY W/STOP & K-8888 ADJUSTABLE P-TRAP SERBER, TWO HANDLE CENTERSET LAV FAUCET, CD-44-252-67, GRID STRAINER WORST BLADE HANDLES, 4" CENTERS, VANADAL PROOF, ADA COMPLIANT PROVIDE THERMOSTATIC MIXING VALVE SET TO 105 DEGREES F	1/2"	1/2"	1-1/4"
N-100	3-COMPARTMENT SINK SEE ARCHITECTS EQUIPMENT LIST FOR DETAILS	1/2"	1/2"	3 @ 1-1/2"
N-101	PREP SINK SEE ARCHITECTS EQUIPMENT LIST FOR DETAILS	1/2"	1/2"	1-1/2"
N-102	HAND SINK SEE ARCHITECTS EQUIPMENT LIST FOR DETAILS PROVIDE THERMOSTATIC MIXING VALVE SET TO 105 DEGREES F	1/2"	1/2"	1-1/2"
N-105	ICE CUBER SEE ARCHITECTS EQUIPMENT LIST FOR DETAILS	3/8"		3/4"IND
N-106	ICE BIN SEE ARCHITECTS EQUIPMENT LIST FOR DETAILS			3/4"IND
N-113.1	MOVABLE GAS CONNECTOR SEE ARCHITECTS EQUIPMENT LIST FOR DETAILS			
N-118	FRYER 10,000 BTU 3/4" GAS SEE ARCHITECTS EQUIPMENT LIST FOR DETAILS			
N-126	SOFT SERVE - WATER COOLED SEE ARCHITECTS EQUIPMENT LIST FOR DETAILS	3/8"		
N-137	ICE DISPENSER SEE ARCHITECTS EQUIPMENT LIST FOR DETAILS	1/2"		1-1/4"
N-139	COFFEE MAKER SEE ARCHITECTS EQUIPMENT LIST FOR DETAILS	1/2"		1-1/4"
N-140	WATER FILTER SYSTEM FOR SODA DISPENSER SEE ARCHITECTS EQUIPMENT LIST FOR DETAILS	1/2"		
N-141	SODA & ICE DISPENSER SEE ARCHITECTS EQUIPMENT LIST FOR DETAILS	1/2"		1-1/4"
N-152	HOT CHOCOLATE SEE ARCHITECTS EQUIPMENT LIST FOR DETAILS	1/2"		1-1/4"
N-153	COUNTERTOP GRIDDLE 100,000 BTU 3/4" NATURAL GAS SEE ARCHITECTS EQUIPMENT LIST FOR DETAILS			
N-155	CHAR BROILER 60,000 BTU 3/4" GAS SEE ARCHITECTS EQUIPMENT LIST FOR DETAILS			
N-157	COUNTERTOP HOTPLATE 60,000 BTU SEE ARCHITECTS EQUIPMENT LIST FOR DETAILS			
EWC	HALSEY TAYLOR OLV-H BI LEVEL WATER COOLER HOLYSERORN-WMF WALL MOUNT, FILTERED, REFRIGERATED, VANDAL RESISTANT BUBBLER PRO-FLO TRAP #F9867COH	1/2"		1-1/4"
MR	FIAT MOP SERVICE BASIN #T5BC 1610, PRECAST TERRAZZO, NEO-CORNER 12" HIGH WITH 6" DROP FRONT AND SS THRESHOLD 1/4" HALSEY SERVICE SINK FAUCET #3300A, 8" CENTERS, VAC BREAKER 3/4" HOSE END SPOUT WITH PAIL HOOK, TOP REINFORCING BAR AND MOUNTING BRACKET	1/2"	1/2"	2"
FD	JAY R. SMITH FLOOR DRAIN #2010C, ROUND TOP, NICKEL BRONZE TOP SEDIMENT BUCKET, DEEP SEAL TRAP MIN 4" SEAL, IF SPACE DOESN'T ALLOW USE TRAP PRIMER PROVIDE WATTS REGULATOR #A200 TRAP PRIMER CONNECTION TO NEAREST 1/2" FIXTURE SUPPLY			4"
FS	JAY R. SMITH FLOOR SINK #3411, SQUARE TOP, SEDIMENT BUCKET, DEEP SEAL TRAP MIN 4" SEAL, IF SPACE DOESN'T ALLOW USE TRAP PRIMER PROVIDE WATTS REGULATOR #A200 TRAP PRIMER CONNECTION TO NEAREST 1/2" FIXTURE SUPPLY			4"
HWH	BRADFORD WHITE PDV-805-150-3N 80 GALLON COMMERCIAL GAS HOT WATER HEATER 145 RISE @ 100 DEGREES F, INTEGRATED CONTROL, DIGITAL DISPLAY, DIRECT VENT, TEMP SET AT 140 F			3"
FCO	JAY R. SMITH FLOOR CLEANOUT #A028C, ROUND TOP, BRONZE PLUG ADJUSTABLE TOP			4"
HB	FROST PROOF HOSE BB	3/4"		

LEGEND



GENERAL NOTES

- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL EQUIPMENT AND MATERIALS LISTED IN PLUMBING FIXTURE SCHEDULE.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT, MATERIALS, AND LABOR TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM AS INDICATED ON THE DESIGN DOCUMENTS.
- CONTRACTOR SHALL OBTAIN ALL PERMITS, INSPECTIONS, AND APPROVALS PRIOR TO AND DURING CONSTRUCTION.
- ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER.
- ALL MATERIALS AND INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH NATIONAL STANDARD PLUMBING CODE, LOCAL CODES, AND ALL AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR SHALL PROVIDE ALL ROOF OPENINGS, FLASHING, AUXILIARY STEEL, THREADED RODS, ETC., TO SUPPORT HIS EQUIPMENT ON OR FROM THE STRUCTURE.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES AND IN FIELD PRIOR TO INSTALLATION OF ANY WORK. REPORT ALL CONFLICTS IMMEDIATELY TO ARCHITECT AND ENGINEER.
- CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL EQUIPMENT WITH ARCHITECT AND OTHER TRADES.
- THE CONTRACTOR SHALL PRESSURE TEST ALL PIPING IN ACCORDANCE WITH CODES AND AUTHORITIES HAVING JURISDICTION.
- PLUMBING CONTRACTOR SHALL INCLUDE ALL COSTS, PERMITS AND FEES ASSOCIATED WITH PLUMBING AND SANITARY PIPING WORK FOR THIS PROJECT.
- THE CONTRACTOR SHALL SEAL ALL PENETRATIONS THROUGH FIRE RATED STRUCTURES WITH FIREPROOF SEALANT AS MANUFACTURED BY 3M OR APPROVED EQUAL.
- JOINTS BETWEEN DIFFERENT PIPING MATERIALS SHALL BE MADE WITH APPROVED ADAPTOR FITTINGS. JOINTS BETWEEN DIFFERENT METALLIC PIPING MATERIAL SHALL BE MADE WITH APPROVED DIELECTRIC FITTINGS OR BRASS CONNECTION FITTINGS.
- PIPE HANGERS SHALL BE SECURELY ATTACHED TO BUILDING CONSTRUCTION.
- PIPING IN THE PLUMBING SYSTEM SHALL BE INSTALLED SO AS TO PREVENT STRAINS AND STRESSES WHICH WILL EXCEED STRUCTURAL STRENGTH OF THE PIPE. PROVISIONS SHALL BE MADE FOR EXPANSION AND CONTRACTION OF THE PIPING. PROVIDE THREE ELBOW SWING JOINT BRANCH TAKE-OFFS.
- ALL REQUIRED INDIRECT WASTE PIPING SHALL DISCHARGE INTO THE BUILDING DRAINAGE SYSTEM THROUGH AN AIR GAP OR AIR BREAK.
- SANITARY DRAINAGE SYSTEM VENTS THROUGH ROOFS SHALL NOT TERMINATE WITHIN 25 FEET OF ANY WINDOW, OR AIR INTAKE.
- EXISTING CONDITIONS BASED ON LIMITED OBSERVATIONS BY ARCHITECT (DATED DECEMBER OF 2016). PLUMBING SUBCONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS PRIOR TO STARTING WORK. IF EXISTING CONDITIONS ARE DIFFERENT FROM WHAT IS SHOWN, CONTACT THE ENGINEER PRIOR TO STARTING WORK.

SPECIFICATIONS

Domestic cold and hot water pipe

Type L hard-drawn seamless copper tubing, ASTM B88. Wrought copper solder joint fittings, ANSI B16.22. Wrought copper and solder joint unions with copper seats, ANSI B16.22. Joints shall be soldered 3" and smaller and brazed 4" and larger. Solder shall be 95-5 tin-antimony, 0.20% maximum lead content, 0.03% maximum cadmium content, ASTM B32, Alloy Grade Sb5 or Taracor Taramet Sterling lead-free solder per ASTM B32 Alloy Grade TC. Solder flux shall be nonaggressive, noncorrosive type meeting Federal Spec OFS06C, Type 1 and containing no more than 0.20% lead. Ball valves shall be full-port design, three-piece construction, cast bronze body, Type 316 stainless steel ball and blowout-proof stem, reinforced Teflon seats and seals, soldered ends, brazing tube extensions on 4" valves, 225 psig WP at 100 degrees F, minimum 29 inches Hg vacuum-rated, PSM, Inc. Series SP-B-SJ-2. Check valves shall be class 150 bronze swing check valves with renewable bronze disc, integral seat, screw-in cap, solder ends, 300 psi WWP - 150 degrees F, Nibco, Inc. S-433.

Sanitary and vent piping

Pipe and fittings shall be manufactured from PVC compound with a cell class of 12454 per ASTM D-1784 and conform with National Sanitation Foundation (NSF) standards 14 and 61. Pipe shall be iron pipe size (IPS) conforming to ASTM D-1785. Fittings shall conform to ASTM D-2466.

All pipe and fittings to be produced by a single manufacturer and to be installed in accordance with manufacturer's recommendations and code requirements. Solvent cements shall conform to ASTM D-2564, primer shall conform to ASTM F-656.

Sanitary and Vent piping in return plenums

Sanitary and Vent piping in return plenums shall be cast iron.

Backflow preventer

Watts Regulator Co. - Series 709
Furnish double check valve assembly tested and certified in accordance with ASSE Standard 1013 and AWWA C510. Assembly shall have two (2) spring-loaded independently operated poppet-type valves mounted in common body for sizes 3/4" to 2" and independent body for sizes 2-1/2" to 10", two (2) shut-off valves, strainer, four (4) test cocks and designed for installation in vertical or horizontal flow attitude. Assembly shall be suitable for 175 psi working pressure. Assembly shall be bronze body modular construction with replaceable seats, ball valve test cocks, bronze strainer, two (2) ball valves with bronze ball and stem, with full port, quarter turn. Maximum working temperature 140 degrees F. For hot water, removable check seats shall be stainless steel. Assembly shall be suitable for 175 psi and 210 degrees F working temperature.

Domestic water piping insulation

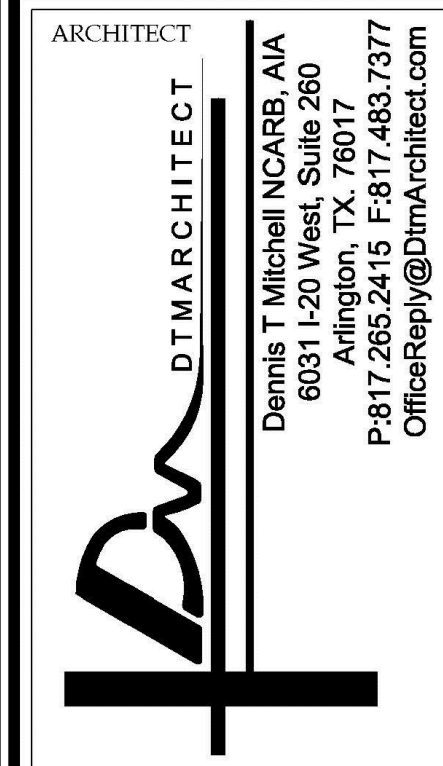
Insulation systems shall have acceptable proportion of sodium plus silicate ions to chloride ions to prevent corrosion of austenitic stainless steel in accordance with requirements of ASTM C795. Insulation shall be Owens-Corning Fiberglas ASJ Pipe Insulation composed of fiberglass one-piece pipe insulation jacketed with embossed vapor barrier laminate. Where available from manufacturer, jacket laps shall have factory-applied pressure-sensitive adhesive (SSL). Systems operating below 40 degrees F shall have factory-applied double pressure-sensitive adhesive (SSL-II). Butt joint sealing strips shall be of same material as jacket and shall have pressure-sensitive adhesive. Insulation shall be suitable for operating temperatures of 0 degrees F to +850 degrees F, have water vapor permeance of 0.02 perms maximum, and thermal conductivity k of 0.25 maximum at 75 degrees F mean temperature and k of 0.26 maximum at 100 degrees F mean temperature. Insulation shall be 1" thick. Provide factory-sized tube insulation, and tube-sized fitting covers and jacketing for copper and stainless steel tubing systems. Insulation, fitting cover and jacketing materials shall be same as specified for pipe. Refer to related Section for piping specifications. Insulate fittings, flanges, valves and pipeline appurtenances with Zeston 2000 PVC premoled insulated fitting covers consisting of Hi-Lo Temp fiberglass insulation inserts and one-piece premoled white polyvinyl chloride (PVC) cover, ASTM E84 rated 25/50. Provide one insulation insert with each cover when insulation is 1-1/2" or less; two inserts above 1-1/2" thick plus one additional insert for each additional 1" of pipe insulation above 1-1/2". Provide an additional insert when service temperature is below 45 degrees F. Manufacturer shall provide necessary stainless steel serrated tack fasteners to hold covers in place, and vapor barrier pressure-sensitive white PVC Z-Tape to cover circumferential joints.

Trap covers

Where angle stop valves or drainage traps are exposed at ADA compliant fixtures, provide ProFlo covers.

Miscellaneous

This project neither overloads any existing systems, nor creates/increases any existing code non-conformity.



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DRAWN BY: SJM APPROVED BY: PJS
SCALE: 1/4" = 1'-0" JOB#: 1610-021

TITLE:
SCHEDULE, NOTES &
SPECIFICATIONS
DWG. NO.
P-4

PROGRESS
09-14-18