



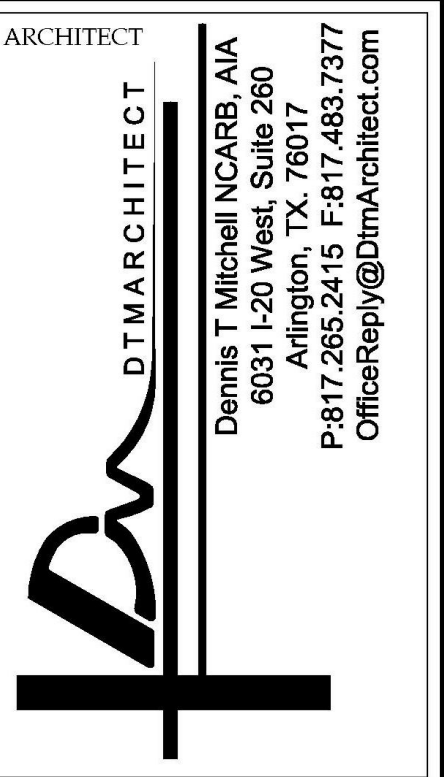
PROJECT:  
**CAPE MAY COUNTY ZOO SAFARI CAFE 2**  
**NEW RETAIL FOOD BUILDING**  
 707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210

ISSUED FOR BID

2-12-2020

PROJECT NO. 1610-021

<p>DESIGN ARCHITECT</p> <p><b>T+ASSOCIATES ARCHITECTS</b>        525 South 4th Street, Suite 591        Philadelphia, PA 19147        Tel: 215 629 6374        Contact person: Anthony Tsirantonakis, Architect</p>	<p>Architect on record:</p> <p><b>DENNIS T. MITCHELL</b>        6031 I-20 WEST, SUITE 260        ARLINGTON, TX 76017        (817)-265-2415</p>	<p>Structural Engineer:</p> <p><b>CKS STRUCTURES, INC.</b>        280 N. PROVIDENCE RD,        SUITE 105        MEDIA, PA 19063</p>	<p>MEP Engineers:</p> <p><b>PSP ASSOCIATES</b>        1105 MELLIEN DRIVE        DOWNINGTOWN, PA 19335        (610) 772-1474</p> <p><b>MULHERN CONSULTING ENGINEERS</b>        321 SOUTH YORK ROAD        HATBORO, PA 19040        (215) 293-9900</p>	<p>Operator:</p> <p><b>ARAMARK LEISURE</b>        ARAMARK TOWER        1001 MARKET STREET        PHILADELPHIA, PA 19106</p>	<table border="1"> <thead> <tr> <th colspan="3">DRAWING LIST</th> </tr> <tr> <th>SHEET NUMBER</th> <th>SHEET NAME</th> <th>ADDENDUM</th> </tr> </thead> <tbody> <tr><td>CS</td><td>COVER SHEET</td><td></td></tr> <tr><td>C100</td><td>SITE PLAN</td><td></td></tr> <tr><td>A000</td><td>BUILDING CODE ANALYSIS EGRESS PLAN, &amp; ADA BATHROOMS</td><td></td></tr> <tr><td>A001</td><td>DOOR AND WINDOW SCHEDULES AND DETAILS</td><td></td></tr> <tr><td>A100</td><td>DETAIL SITE PLAN</td><td></td></tr> <tr><td>A100.1</td><td>SHADE SAIL DETAILS</td><td></td></tr> <tr><td>A101</td><td>ARCHITECTURAL FLOOR PLAN</td><td></td></tr> <tr><td>A101.1</td><td>ARCHITECTURAL FLOOR PLAN - UPPER WINDOWS</td><td></td></tr> <tr><td>A102</td><td>ROOF PLAN</td><td></td></tr> <tr><td>A103</td><td>REFLECTED CEILING PLAN - CEILING DIMENSIONS</td><td></td></tr> <tr><td>A104</td><td>REFLECTED CEILING PLAN - LIGHT FIXTURE DIMENSIONS</td><td></td></tr> <tr><td>A105</td><td>EQUIPMENT PLAN</td><td></td></tr> <tr><td>A105.1</td><td>EQUIPMENT LIST (BY LOCATION ON PLAN)</td><td></td></tr> <tr><td>A106</td><td>MILLWORK, FURNITURE AND TECHNICAL PLAN</td><td></td></tr> <tr><td>A107</td><td>FINISH PLAN</td><td></td></tr> <tr><td>A200</td><td>EXTERIOR ELEVATIONS</td><td></td></tr> <tr><td>A201</td><td>EXTERIOR ELEVATIONS</td><td></td></tr> <tr><td>A202</td><td>BUILDING SECTIONS</td><td></td></tr> <tr><td>A203</td><td>WALL SECTIONS</td><td></td></tr> <tr><td>A205</td><td>INTERIOR ELEVATIONS</td><td></td></tr> <tr><td>A206</td><td>INTERIOR ELEVATIONS - FOOD COURT</td><td></td></tr> <tr><td>A207</td><td>INTERIOR ELEVATIONS</td><td></td></tr> <tr><td>A301</td><td>MILLWORK DETAILS</td><td></td></tr> <tr><td>A301.1</td><td>MILLWORK DETAILS</td><td></td></tr> <tr><td>A302</td><td>BAMBOO PANEL DETAILS</td><td></td></tr> <tr><td>A303</td><td>BAMBOO SLAT SUSPENDED CANOPY DETAILS</td><td></td></tr> <tr><td>A304</td><td>SIGNAGE DETAILS</td><td></td></tr> <tr><td>S100</td><td>GENERAL NOTES</td><td></td></tr> <tr><td>S101</td><td>FOUNDATION PLAN</td><td></td></tr> <tr><td>S102</td><td>ROOF FRAMING PLAN</td><td></td></tr> <tr><td>S301</td><td>FOUNDATION DETAILS</td><td></td></tr> <tr><td>S302</td><td>FRAMING DETAILS</td><td></td></tr> <tr><td>M-1</td><td>MECHANICAL PLAN</td><td></td></tr> <tr><td>M-2</td><td>MECHANICAL ROOF PLAN</td><td></td></tr> <tr><td>M-3</td><td>MECHANICAL DATA SCHEDULES</td><td></td></tr> <tr><td>M-4</td><td>MECHANICAL DETAILS</td><td></td></tr> <tr><td>M-5</td><td>MECHANICAL SPECIFICATIONS</td><td></td></tr> <tr><td>M-6</td><td>MECHANICAL KITCHEN HOOD SHEET 1 OF 6</td><td></td></tr> <tr><td>M-7</td><td>MECHANICAL KITCHEN HOOD SHEET 2 OF 6</td><td></td></tr> <tr><td>M-8</td><td>MECHANICAL KITCHEN HOOD SHEET 3 OF 6</td><td></td></tr> <tr><td>M-9</td><td>MECHANICAL KITCHEN HOOD SHEET 4 OF 6</td><td></td></tr> <tr><td>M-10</td><td>MECHANICAL KITCHEN HOOD SHEET 5 OF 6</td><td></td></tr> <tr><td>M-11</td><td>MECHANICAL KITCHEN HOOD SHEET 6 OF 6</td><td></td></tr> <tr><td>E1</td><td>LIGHTING PLAN</td><td></td></tr> <tr><td>E2</td><td>POWER PLAN</td><td></td></tr> <tr><td>E3</td><td>ELECTRICAL ROOF PLAN</td><td></td></tr> <tr><td>E4</td><td>ELECTRICAL NOTES AND DETAILS</td><td></td></tr> <tr><td>E5</td><td>ELECTRICAL DETAILS</td><td></td></tr> <tr><td>P-1</td><td>SANITARY AND VENT PLAN</td><td></td></tr> <tr><td>P-2</td><td>DOMESTIC WATER PLAN</td><td></td></tr> <tr><td>P-3</td><td>PLUMBING RISER DIAGRAMS</td><td></td></tr> <tr><td>P-4</td><td>SCHEDULE, NOTES AND SPECIFICATIONS</td><td></td></tr> </tbody> </table>	DRAWING LIST			SHEET NUMBER	SHEET NAME	ADDENDUM	CS	COVER SHEET		C100	SITE PLAN		A000	BUILDING CODE ANALYSIS EGRESS PLAN, & ADA BATHROOMS		A001	DOOR AND WINDOW SCHEDULES AND DETAILS		A100	DETAIL SITE PLAN		A100.1	SHADE SAIL 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		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	
DRAWING LIST																																																																																																																																																																							
SHEET NUMBER	SHEET NAME	ADDENDUM																																																																																																																																																																					
CS	COVER SHEET																																																																																																																																																																						
C100	SITE PLAN																																																																																																																																																																						
A000	BUILDING CODE ANALYSIS EGRESS PLAN, & ADA BATHROOMS																																																																																																																																																																						
A001	DOOR AND WINDOW SCHEDULES AND DETAILS																																																																																																																																																																						
A100	DETAIL SITE PLAN																																																																																																																																																																						
A100.1	SHADE SAIL 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																																																																																																																																																																						
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																																																																																																																																																																						
<p>GENERAL PROJECT NOTES</p> <ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> <li>ALL CODE REQUIRED EXITS, EXIT LIGHT, EMERGENCY LIGHT, ALARMS, SPRINKLERS IF ANY, ETC., SHALL BE MAINTAINED IN OPERABLE CONDITION THROUGHOUT THE CONTRACT PERIOD.</li> <li>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.</li> <li>THE CONTRACT AREA SHALL REMAIN SECURE DURING CONSTRUCTION.</li> <li>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.</li> <li>DRAWINGS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE DIAGRAMMATIC ONLY. THE WORK INDICATED ON THE DRAWINGS SHALL INCLUDE FURNISHINGS, MATERIALS, EQUIPMENT, AND APPURTENANCES, AND LABOR NECESSARY TO COMPLETE THE WORK. VERIFY ALL EQUIPMENT AND LOCATIONS WITH THE OWNER.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>INSTALL ALL EQUIPMENT AND MATERIALS PER MANUFACTURER'S RECOMMENDATIONS UNLESS OTHERWISE SPECIFICALLY INDICATED, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.</li> <li>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.</li> <li>SHOP DRAWING REVIEW SHALL BE FOR DESIGN INTENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIMENSIONS, COORDINATION WITH OTHER TRADES, AND MEANS.</li> <li>REQUESTS FOR SUBSTITUTIONS SHALL BE CONSIDERED BY THE ARCHITECT ONLY IF SHOWN TO BE ADVANTAGEOUS TO THE PROJECT. SUBMIT SUPPORTIVE INFORMATION TO THE PROJECT.</li> <li>CONFIRM TO OWNER THE ORDERING AND DELIVERY DATES OF LONG LEAD ITEMS TO INSURE AGAINST DELAYS IN PROJECT COMPLETION OR TO FORCE SUBSTITUTIONS.</li> <li>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.</li> <li>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.</li> <li>AT SUBSTANTIAL COMPLETION OF THE WORK, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ARCHITECT FOR THE ON-SITE PUNCHLIST WALK-THROUGH.</li> <li>THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS TO THE OWNER/TENANT AT COMPLETION OF WORK.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>CONTRACTOR SHALL PROVIDE SUPERVISION WHILE ANY SUBCONTRACTORS OR WORKMEN ARE ON THE JOB SITE AND SHALL SUPERVISE AND DIRECT ALL WORK.</li> <li>PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A:10:BC WITH 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA DURING CONSTRUCTION.</li> <li>CONTRACTOR SHALL PROTECT ALL FINISHES THAT ARE TO REMAIN. CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY OCCUR DURING CONSTRUCTION.</li> <li>SEAL ALL PENETRATIONS THROUGH FIRE RATED AREAS WITH U.L. LISTED OR F.M. APPROVED MATERIALS.</li> <li>VERIFY ALL FINAL EQUIPMENT LOCATIONS WITH THE OWNER'S REPRESENTATIVE.</li> <li>DIMENSIONS ARE TO FINISH UNLESS NOTED.</li> <li>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.</li> </ol>	<p>ABBREVIATIONS</p> <table border="0"> <tr><td>ABV</td><td>ABOVE</td><td>MAX</td><td>MAXIMUM</td></tr> <tr><td>AFF</td><td>ABOVE FINISHED FLOOR</td><td>MFL</td><td>METAL</td></tr> <tr><td>ADJ</td><td>ADJUSTABLE</td><td>MIN</td><td>MINIMUM</td></tr> <tr><td>ADJC</td><td>ADJACENT</td><td>MISC</td><td>MISCELLANEOUS</td></tr> <tr><td>ALUM</td><td>ALUMINUM</td><td>NIC</td><td>NOT IN CONTRACT</td></tr> <tr><td>&amp;</td><td>AND</td><td>NTS</td><td>NOT TO SCALE</td></tr> <tr><td>@</td><td>AT</td><td>OD</td><td>OUTSIDE DIAMETER</td></tr> <tr><td>BLK</td><td>BLOCK</td><td>OC</td><td>ON CENTER</td></tr> <tr><td>BLDG</td><td>BUILDING</td><td>OPK</td><td>OPENING</td></tr> <tr><td>CL</td><td>CENTER LINE</td><td>PAR</td><td>PARALLEL</td></tr> <tr><td>CLG</td><td>CEILING</td><td>PERF</td><td>PERFORATED</td></tr> <tr><td>CLR</td><td>CLEAR</td><td>PRE-FAB</td><td>PRE-FABRICATED</td></tr> <tr><td>CONC</td><td>CONCRETE</td><td>PTD</td><td>PAINTED</td></tr> <tr><td>CONT</td><td>CONTINUOUS</td><td>PWD</td><td>PLYWOOD</td></tr> <tr><td>DEMO</td><td>DEMOLISH</td><td>PL-LAM</td><td>PLASTIC LAMINATE</td></tr> <tr><td>DIA</td><td>DIAMETER</td><td>R</td><td>RADIUS</td></tr> <tr><td>DM</td><td>DIMENSION</td><td>REM</td><td>REMOVE</td></tr> <tr><td>DR</td><td>DOOR</td><td>REV</td><td>REVISION</td></tr> <tr><td>EQ</td><td>EQUAL</td><td>RM</td><td>ROOM</td></tr> <tr><td>EXIST</td><td>EXISTING</td><td>R.O.</td><td>ROUGH OPENING</td></tr> <tr><td>FT</td><td>FEET</td><td>SHT</td><td>SHEET</td></tr> <tr><td>FIN</td><td>FINISH</td><td>SQ</td><td>SQUARE</td></tr> <tr><td>FLR</td><td>FLOOR</td><td>SQ. FT.</td><td>SQUARE FEET</td></tr> <tr><td>FRMG</td><td>FRAMING</td><td>STD</td><td>STANDARD</td></tr> <tr><td>GYP</td><td>GYPSUM WALL BOARD</td><td>STOR</td><td>STORAGE</td></tr> <tr><td>HGT</td><td>HEIGHT</td><td>S/S</td><td>STAINLESS STEEL</td></tr> <tr><td>HVAC</td><td>HEATING/VENTILATION REFRIGERATION</td><td>TELE</td><td>TELEPHONE</td></tr> <tr><td>THK</td><td>THICK</td><td>TRF</td><td>TYPICAL</td></tr> <tr><td>HOR</td><td>HORIZONTAL</td><td>UNF</td><td>UNFINISHED</td></tr> <tr><td>INCL</td><td>INCLUDED</td><td>UR</td><td>URINAL</td></tr> <tr><td>JT</td><td>JOINT</td><td>VNR</td><td>VENUE</td></tr> <tr><td>KO</td><td>KNOCKOUT</td><td>VERT</td><td>VERTICAL</td></tr> <tr><td>LAV</td><td>LAVATORY</td><td>VIF</td><td>VERIFY IN FIELD</td></tr> <tr><td>LBL</td><td>LABEL</td><td>WC</td><td>WATER CLOSET</td></tr> <tr><td></td><td></td><td>W/</td><td>WITH</td></tr> <tr><td></td><td></td><td>WD</td><td>WOOD</td></tr> </table>	ABV	ABOVE	MAX	MAXIMUM	AFF	ABOVE FINISHED FLOOR	MFL	METAL	ADJ	ADJUSTABLE	MIN	MINIMUM	ADJC	ADJACENT	MISC	MISCELLANEOUS	ALUM	ALUMINUM	NIC	NOT IN CONTRACT	&	AND	NTS	NOT TO SCALE	@	AT	OD	OUTSIDE DIAMETER	BLK	BLOCK	OC	ON CENTER	BLDG	BUILDING	OPK	OPENING	CL	CENTER LINE	PAR	PARALLEL	CLG	CEILING	PERF	PERFORATED	CLR	CLEAR	PRE-FAB	PRE-FABRICATED	CONC	CONCRETE	PTD	PAINTED	CONT	CONTINUOUS	PWD	PLYWOOD	DEMO	DEMOLISH	PL-LAM	PLASTIC LAMINATE	DIA	DIAMETER	R	RADIUS	DM	DIMENSION	REM	REMOVE	DR	DOOR	REV	REVISION	EQ	EQUAL	RM	ROOM	EXIST	EXISTING	R.O.	ROUGH OPENING	FT	FEET	SHT	SHEET	FIN	FINISH	SQ	SQUARE	FLR	FLOOR	SQ. FT.	SQUARE FEET	FRMG	FRAMING	STD	STANDARD	GYP	GYPSUM WALL BOARD	STOR	STORAGE	HGT	HEIGHT	S/S	STAINLESS STEEL	HVAC	HEATING/VENTILATION REFRIGERATION	TELE	TELEPHONE	THK	THICK	TRF	TYPICAL	HOR	HORIZONTAL	UNF	UNFINISHED	INCL	INCLUDED	UR	URINAL	JT	JOINT	VNR	VENUE	KO	KNOCKOUT	VERT	VERTICAL	LAV	LAVATORY	VIF	VERIFY IN FIELD	LBL	LABEL	WC	WATER CLOSET			W/	WITH			WD	WOOD																						
ABV	ABOVE	MAX	MAXIMUM																																																																																																																																																																				
AFF	ABOVE FINISHED FLOOR	MFL	METAL																																																																																																																																																																				
ADJ	ADJUSTABLE	MIN	MINIMUM																																																																																																																																																																				
ADJC	ADJACENT	MISC	MISCELLANEOUS																																																																																																																																																																				
ALUM	ALUMINUM	NIC	NOT IN CONTRACT																																																																																																																																																																				
&	AND	NTS	NOT TO SCALE																																																																																																																																																																				
@	AT	OD	OUTSIDE DIAMETER																																																																																																																																																																				
BLK	BLOCK	OC	ON CENTER																																																																																																																																																																				
BLDG	BUILDING	OPK	OPENING																																																																																																																																																																				
CL	CENTER LINE	PAR	PARALLEL																																																																																																																																																																				
CLG	CEILING	PERF	PERFORATED																																																																																																																																																																				
CLR	CLEAR	PRE-FAB	PRE-FABRICATED																																																																																																																																																																				
CONC	CONCRETE	PTD	PAINTED																																																																																																																																																																				
CONT	CONTINUOUS	PWD	PLYWOOD																																																																																																																																																																				
DEMO	DEMOLISH	PL-LAM	PLASTIC LAMINATE																																																																																																																																																																				
DIA	DIAMETER	R	RADIUS																																																																																																																																																																				
DM	DIMENSION	REM	REMOVE																																																																																																																																																																				
DR	DOOR	REV	REVISION																																																																																																																																																																				
EQ	EQUAL	RM	ROOM																																																																																																																																																																				
EXIST	EXISTING	R.O.	ROUGH OPENING																																																																																																																																																																				
FT	FEET	SHT	SHEET																																																																																																																																																																				
FIN	FINISH	SQ	SQUARE																																																																																																																																																																				
FLR	FLOOR	SQ. FT.	SQUARE FEET																																																																																																																																																																				
FRMG	FRAMING	STD	STANDARD																																																																																																																																																																				
GYP	GYPSUM WALL BOARD	STOR	STORAGE																																																																																																																																																																				
HGT	HEIGHT	S/S	STAINLESS STEEL																																																																																																																																																																				
HVAC	HEATING/VENTILATION REFRIGERATION	TELE	TELEPHONE																																																																																																																																																																				
THK	THICK	TRF	TYPICAL																																																																																																																																																																				
HOR	HORIZONTAL	UNF	UNFINISHED																																																																																																																																																																				
INCL	INCLUDED	UR	URINAL																																																																																																																																																																				
JT	JOINT	VNR	VENUE																																																																																																																																																																				
KO	KNOCKOUT	VERT	VERTICAL																																																																																																																																																																				
LAV	LAVATORY	VIF	VERIFY IN FIELD																																																																																																																																																																				
LBL	LABEL	WC	WATER CLOSET																																																																																																																																																																				
		W/	WITH																																																																																																																																																																				
		WD	WOOD																																																																																																																																																																				
<p>SYMBOLS</p> <table border="0"> <tr><td></td><td>ELEVATION</td></tr> <tr><td></td><td>DETAIL</td></tr> <tr><td></td><td>SECTION</td></tr> <tr><td></td><td>PARTITION TYPE</td></tr> <tr><td></td><td>FINISH TYPE</td></tr> <tr><td></td><td>DRAWING TYPE</td></tr> <tr><td></td><td>TELEPHONE</td></tr> <tr><td></td><td>MODEM</td></tr> <tr><td></td><td>QUAD OUTLET</td></tr> <tr><td></td><td>DUPLEX OUTLET</td></tr> </table>		ELEVATION		DETAIL		SECTION		PARTITION TYPE		FINISH TYPE		DRAWING TYPE		TELEPHONE		MODEM		QUAD OUTLET		DUPLEX OUTLET	<p>PROJECT DATA</p> <ol style="list-style-type: none"> <li>PROJECT NAME: SAFARI CAFE 2 NEW BUILDING</li> <li>PROJECT LOCATION: 707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210</li> <li>CONSTRUCTION TYPE: VB (NEW)</li> <li>OCCUPANCY CLASSIFICATION: A2 - ASSEMBLY; M- MERCANTILE; B - BUSINESS; S2 - STORAGE</li> <li>AREA OF SPACE: 4,113 SF</li> <li>BUILDING HEIGHT: 20' - 10 1/2'</li> <li>APPLICABLE CODES: ALL WORK SHALL BE IN CONFORMANCE BUT NOT LIMITED TO IBC 2015 (NJ EDITION) ASCE 7 WINDSPEED AND OTHER APPLICABLE CODES AND ORDINANCES</li> </ol>																																																																																																																																																		
	ELEVATION																																																																																																																																																																						
	DETAIL																																																																																																																																																																						
	SECTION																																																																																																																																																																						
	PARTITION TYPE																																																																																																																																																																						
	FINISH TYPE																																																																																																																																																																						
	DRAWING TYPE																																																																																																																																																																						
	TELEPHONE																																																																																																																																																																						
	MODEM																																																																																																																																																																						
	QUAD OUTLET																																																																																																																																																																						
	DUPLEX OUTLET																																																																																																																																																																						



ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

**DESIGNER:**  
**T-ASSOCIATES INC.**  
 525 S. 4TH ST, STE 591  
 PHILADELPHIA, PA 19147  
 T: 215.629.6374

**MEP ENGINEER:**  
**PSP ASSOCIATES**  
 1105 MELLIE DRIVE  
 DOWNINGTOWN, PA 19335

**MULHERN CONSULTING ENGINEERS**  
 321 SOUTH YORK ROAD  
 HATBORO, PA 19040

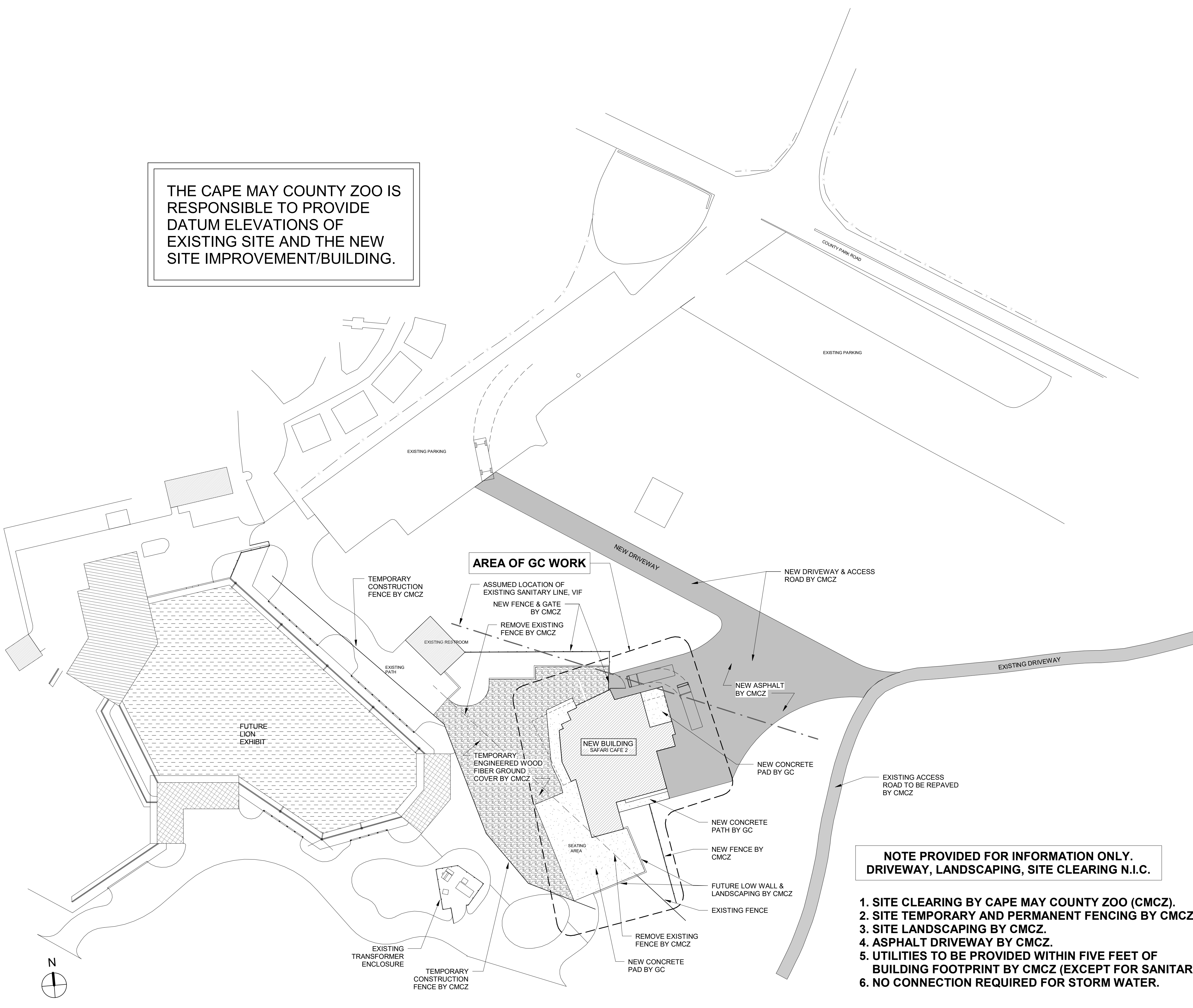
**STRUCTURAL ENGINEER:**  
**CKS STRUCTURES, INC.**  
 280 N. PROVIDENCE RD, SUITE 105  
 MEDIA, PA 19063

**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  
 SCALAs indicated

TITLE:  
**SITE PLAN**  
 DWG. NO.  
**C100**

THE CAPE MAY COUNTY ZOO IS RESPONSIBLE TO PROVIDE DATUM ELEVATIONS OF EXISTING SITE AND THE NEW SITE IMPROVEMENT/BUILDING.

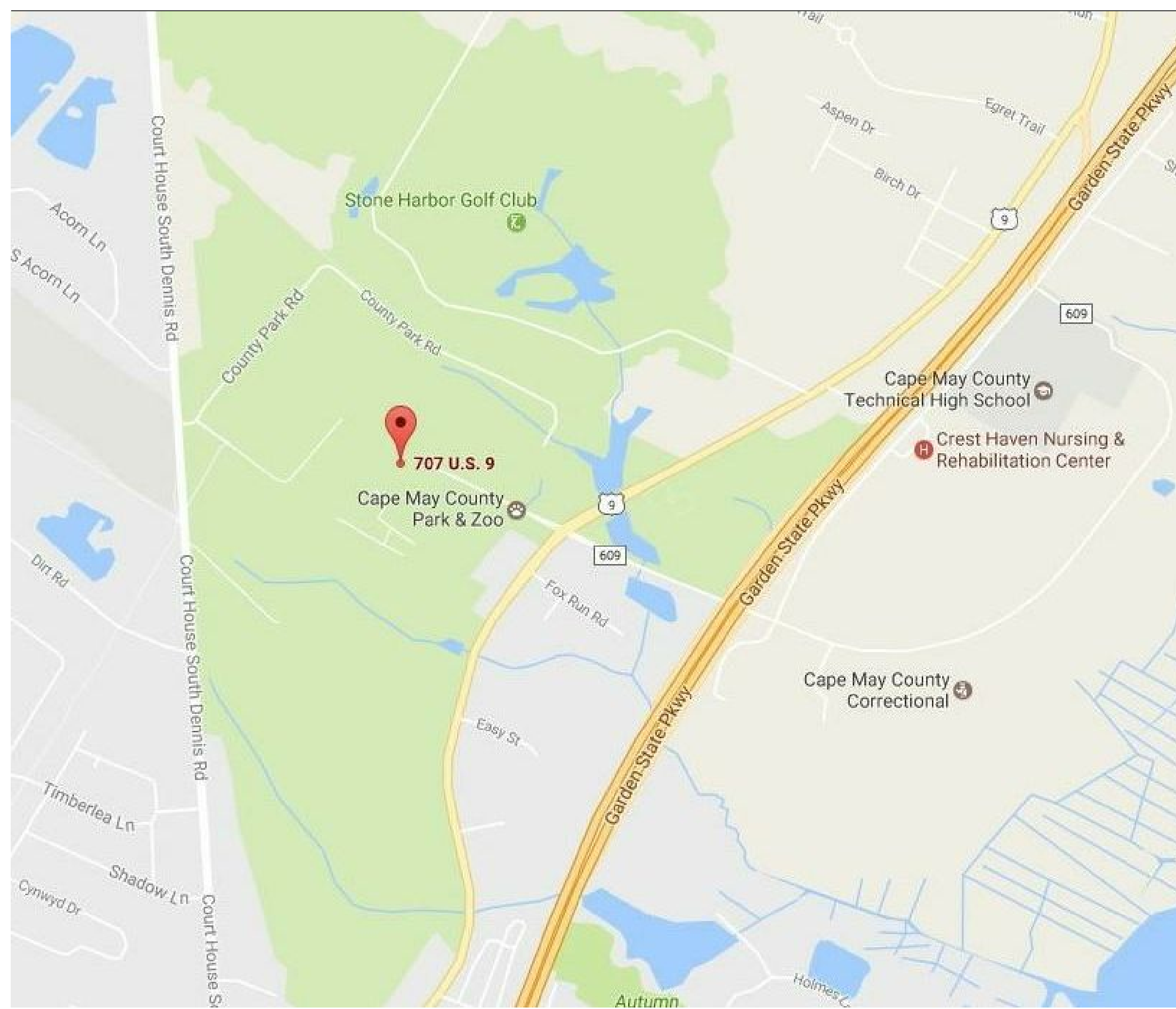


**NOTE PROVIDED FOR INFORMATION ONLY. DRIVEWAY, LANDSCAPING, SITE CLEARING N.I.C.**

1. SITE CLEARING BY CAPE MAY COUNTY ZOO (CMCZ).
2. SITE TEMPORARY AND PERMANENT FENCING BY CMCZ.
3. SITE LANDSCAPING BY CMCZ.
4. ASPHALT DRIVEWAY BY CMCZ.
5. UTILITIES TO BE PROVIDED WITHIN FIVE FEET OF BUILDING FOOTPRINT BY CMCZ (EXCEPT FOR SANITARY).
6. NO CONNECTION REQUIRED FOR STORM WATER.

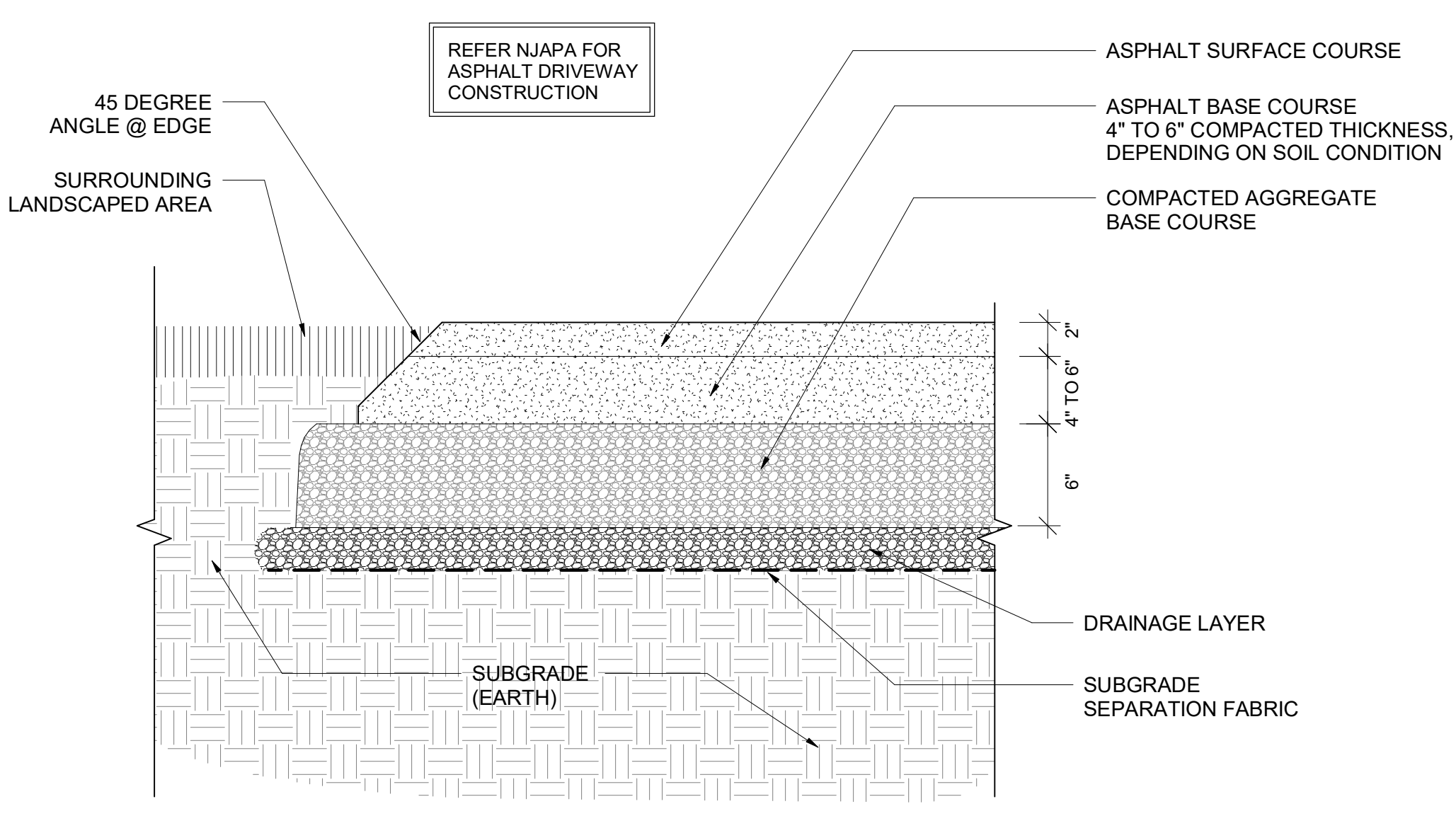


KEY MAP - NOT TO SCALE

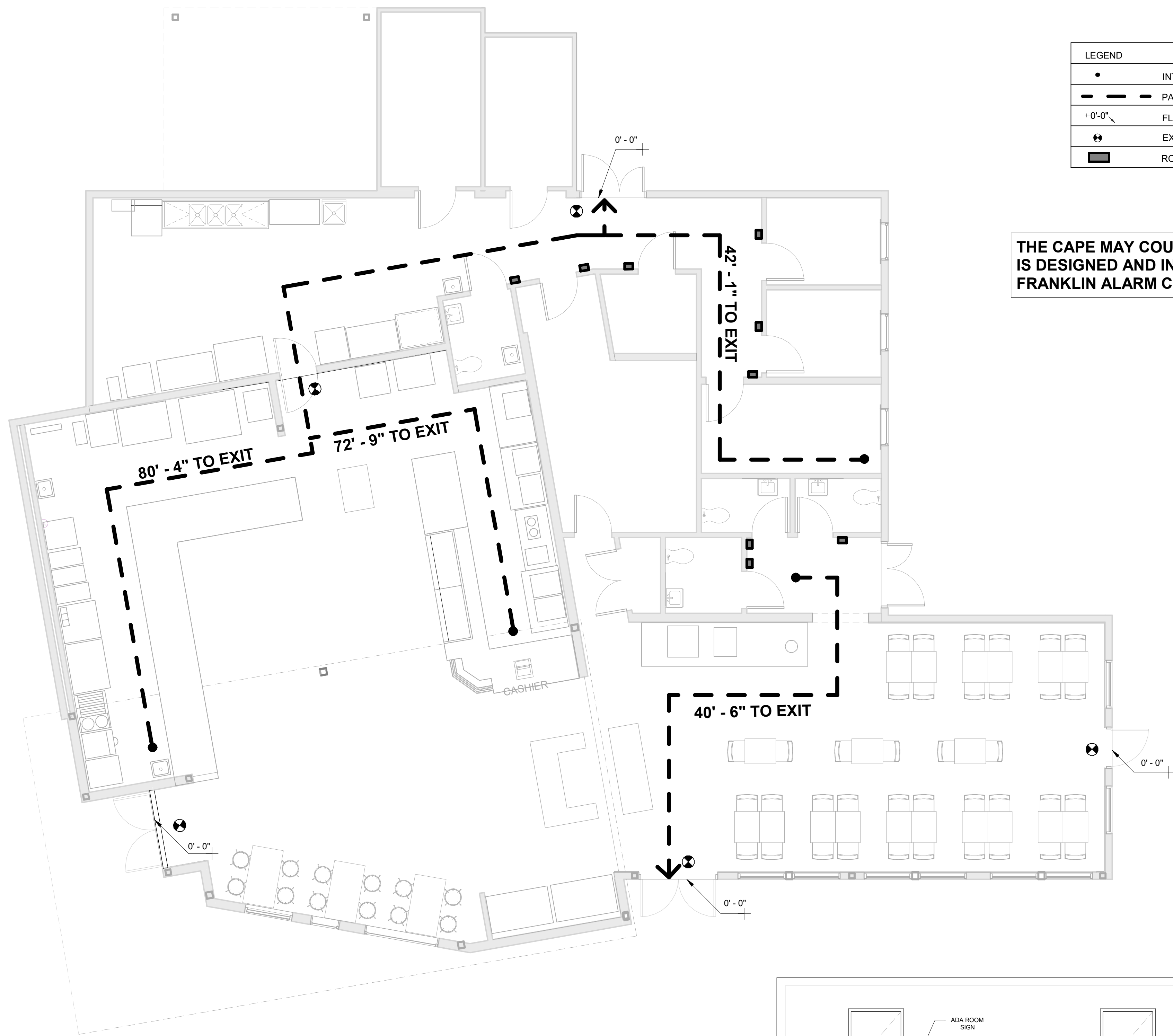


LOCATION MAP - NOT TO SCALE

3 SITE PLAN - TRANSITIONAL SITE PLAN  
 1/32" = 1'-0"



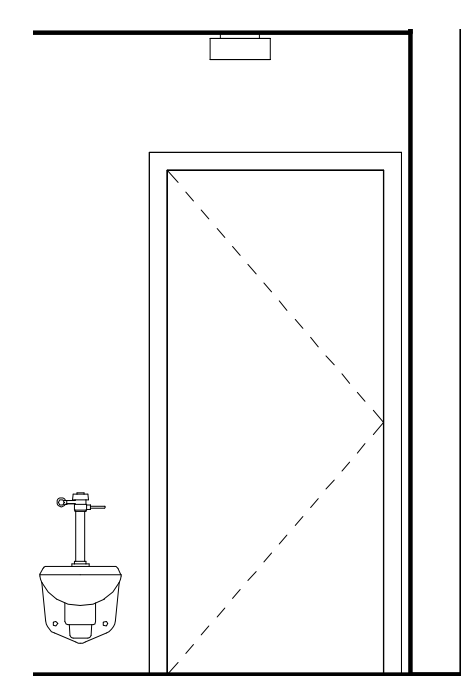
1 ASPHALT DRIVEWAY DETAIL (N.I.C. FOR GC)  
 1 1/2" = 1'-0"



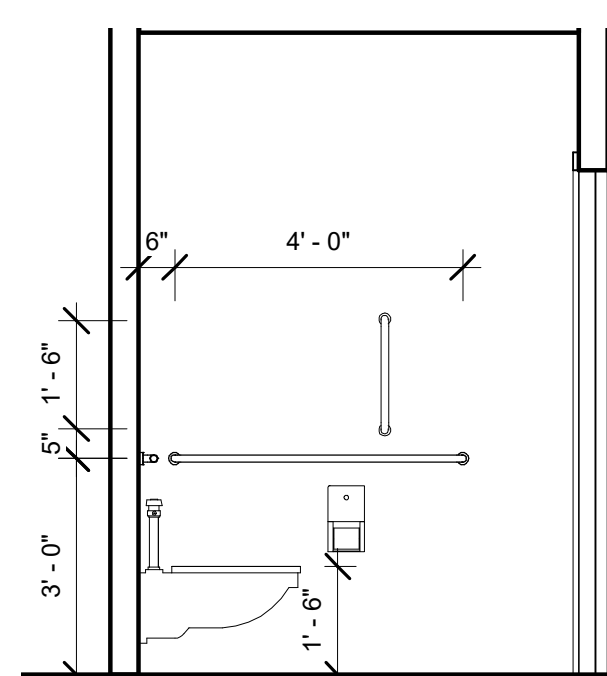
LEGEND	
•	INTERIOR MOST REMOTE POINT
---	PATH TO EXIT
0'-0"	FLOOR-TO-GRADE ELEV. AT EXITS
⊕	EXIT SIGN
■	ROOM SIGN (SEE ELEV. DETAIL BELOW)

THE CAPE MAY COUNTY ZOO FIRE ALARM SYSTEM IS DESIGNED AND INSTALLED BY: FRANKLIN ALARM CO. INC., WILLIAMSTOWN, NJ.

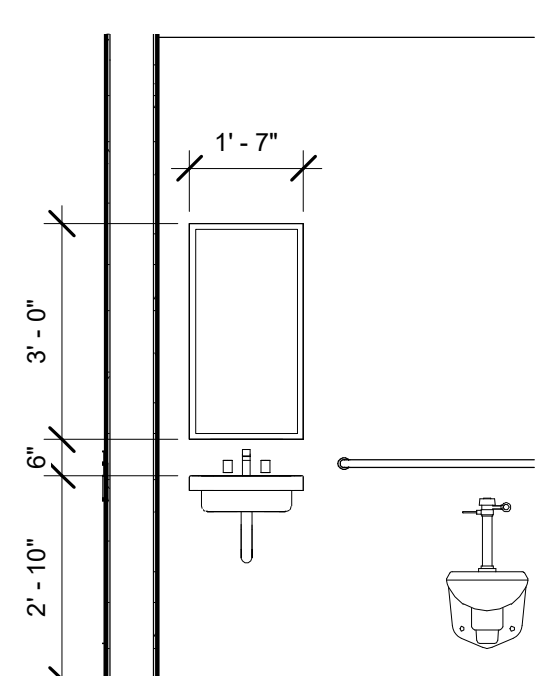
1 FIRST FLOOR EGRESS PLAN  
3/16" = 1'-0"



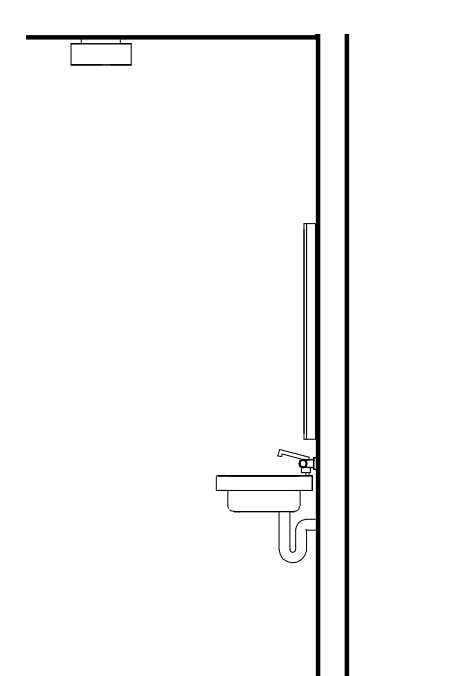
9 ADA BATH 117 - SOUTH ELEVATION  
3/8" = 1'-0"



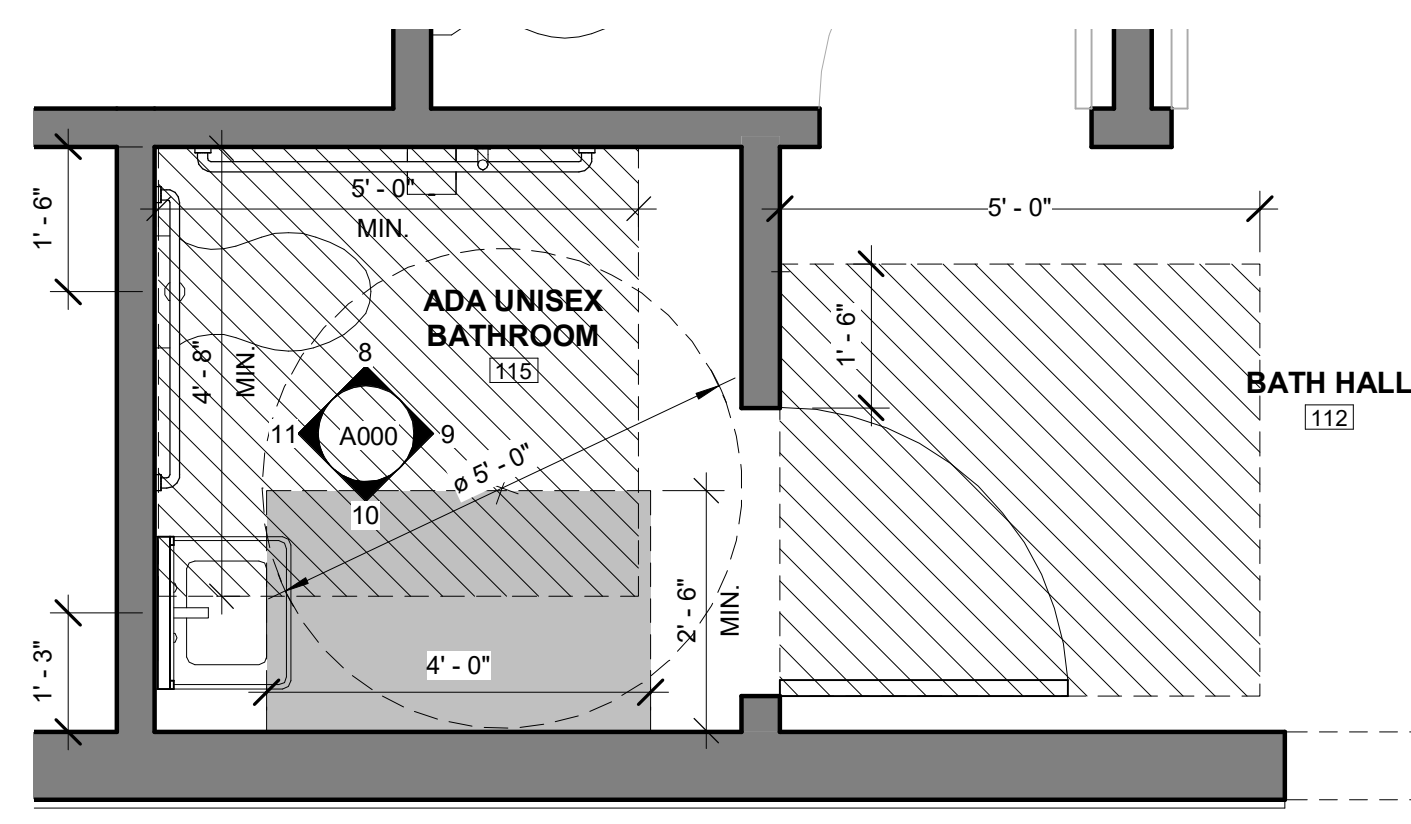
8 ADA BATH 117 - EAST ELEVATION  
3/8" = 1'-0"



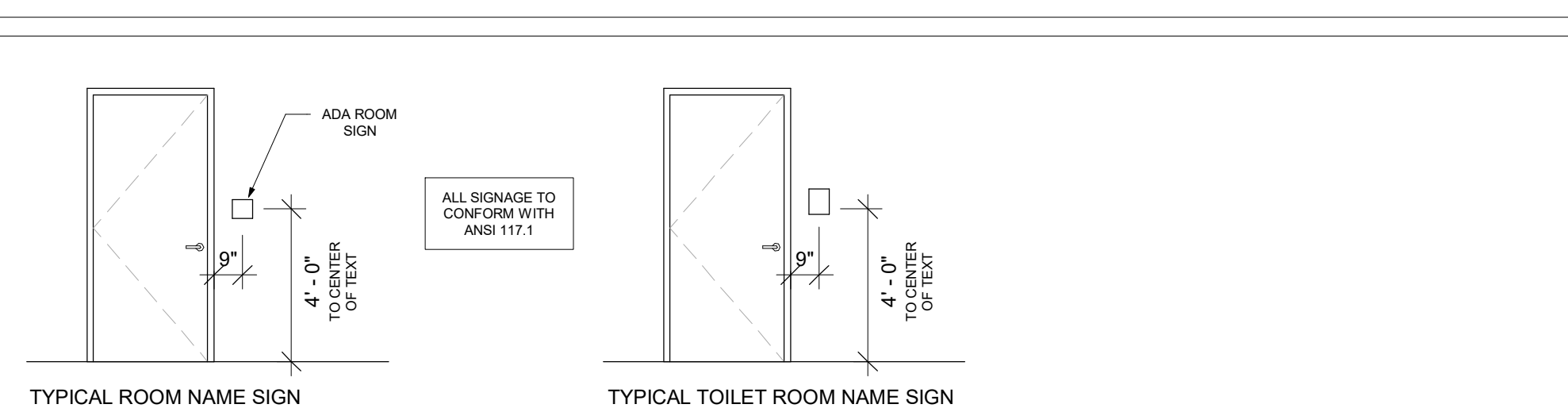
11 ADA BATH 117 - NORTH ELEVATION  
3/8" = 1'-0"



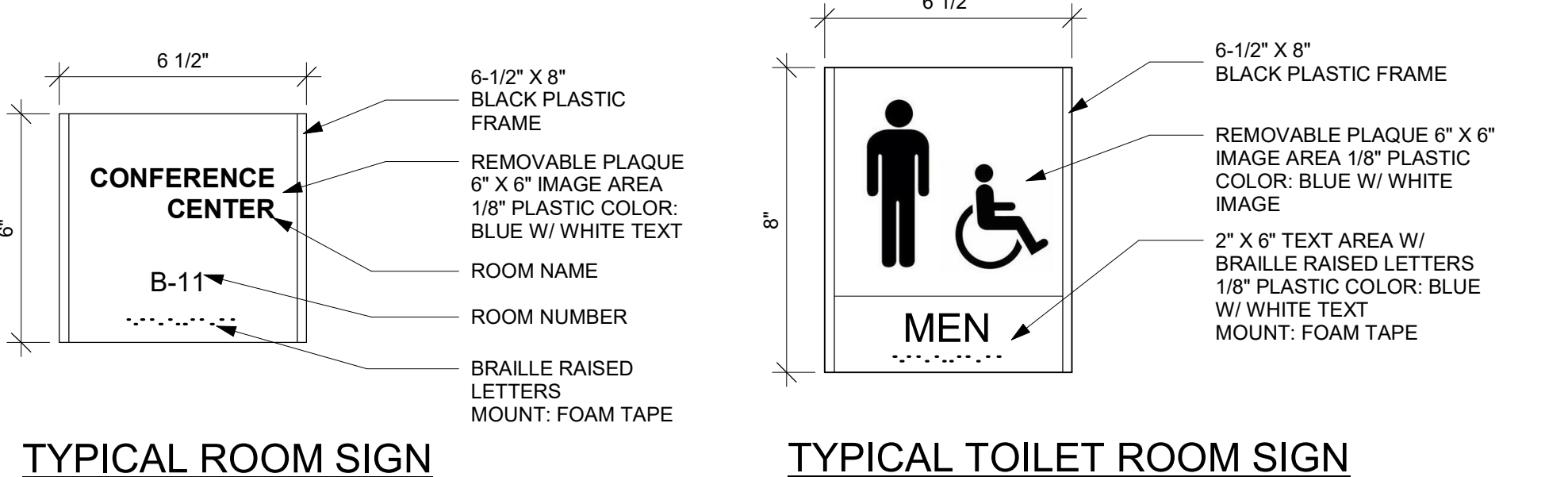
10 ADA BATH 117 - WEST ELEVATION  
3/8" = 1'-0"



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



ADA INTERIOR SIGNAGE DETAIL



TYPICAL ROOM SIGN

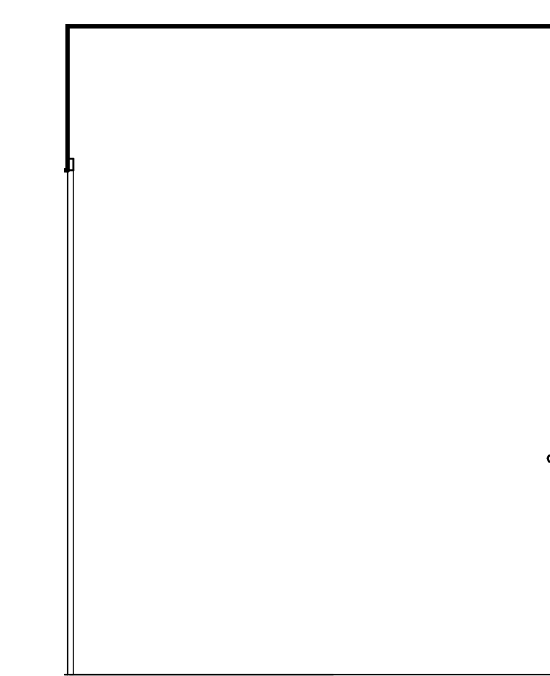
TYPICAL TOILET ROOM SIGN

BATHROOM ACCESSORIES SCHEDULE

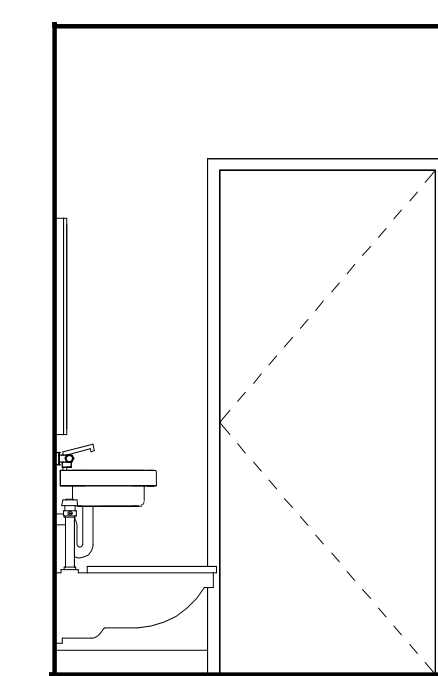
ITEM	LOCATION	DESCRIPTION	QTY
GRAB BAR 18"	ADA BATH RM #106, #115	BOBRICK #B-6806 X 18, SATIN FINISH	2
GRAB BAR 36"	ADA BATH RM #106, #115	BOBRICK #B-6806 X 36, SATIN FINISH	2
GRAB BAR 48"	ADA BATH RM #106, #115	BOBRICK #B-6806 X 48, SATIN FINISH	2
T.P. DISPENSER	ADA BATH RM #106 & #115, WOMENS & MENS 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:

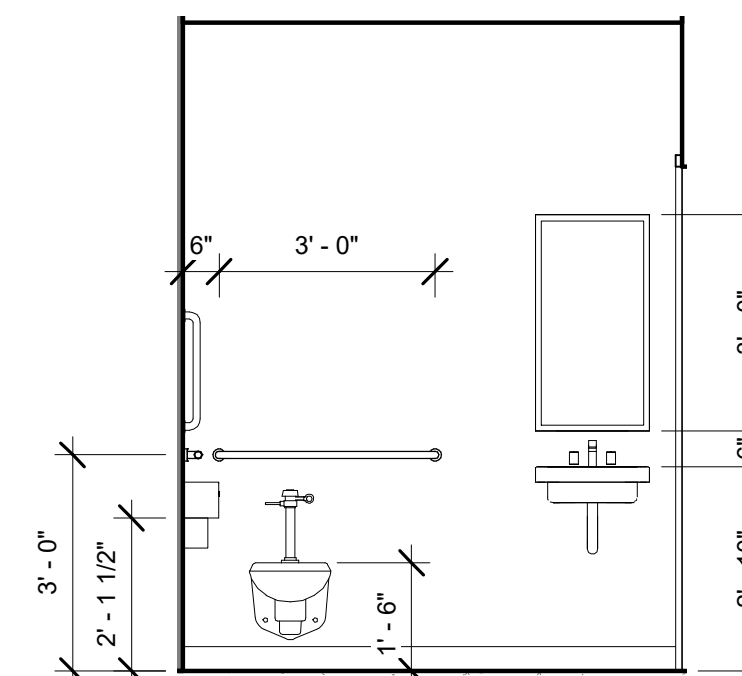
CONDITIONS:	NOTES:	DATA:	REFERENCE:
PROPOSED USE GROUP:		ASSEMBLY GROUP A2 BUSINESS GROUP B MERCANTILE GROUP M STORAGE GROUP S-2	IBC2015 NJ EDITION SECTION 303.3 IBC2015 NJ EDITION SECTION 304.1 IBC2015 NJ EDITION SECTION 309 IBC2015 NJ EDITION SECTION 311.3
CONSTRUCTION TYPE:		V B	IBC2015 NJ EDITION 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:		OHR	
BEARING WALLS:			
EXTERIOR:		OHR	
INTERIOR:		OHR	
NONBEARING WALLS & PARTITIONS:			
EXTERIOR:		OHR	
INTERIOR:		OHR	
FLOOR CONSTRUCTION AND SECONDARY MEMBERS:		OHR	
ROOF CONSTRUCTION AND SECONDARY MEMBERS:		OHR	
FIRE SEPARATION DISTANCE:			IBC2015 NJ EDITION TABLE 602
		X < 5	1HR
		5 ≤ X < 10	1HR
		10 ≤ X < 30	OHR
		X ≥ 30	OHR
FIRE SEPARATION DISTANCE PROPOSED:		X = 20	OHR
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 ASC2 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	



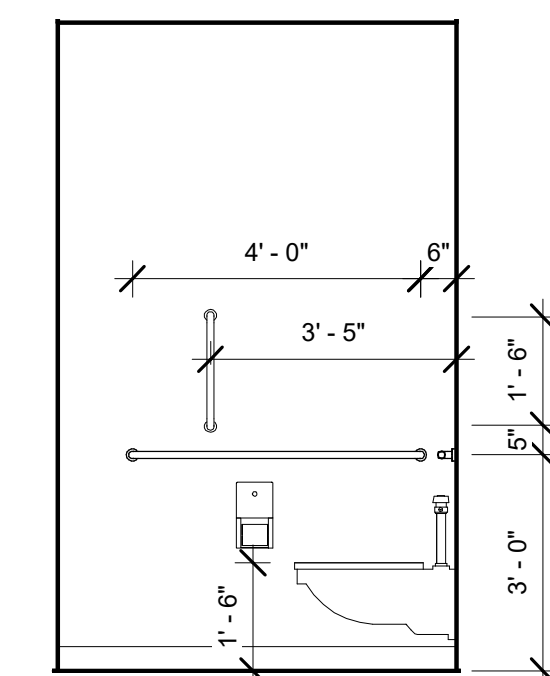
4 ADA BATH 106 - SOUTH ELEVATION  
3/8" = 1'-0"



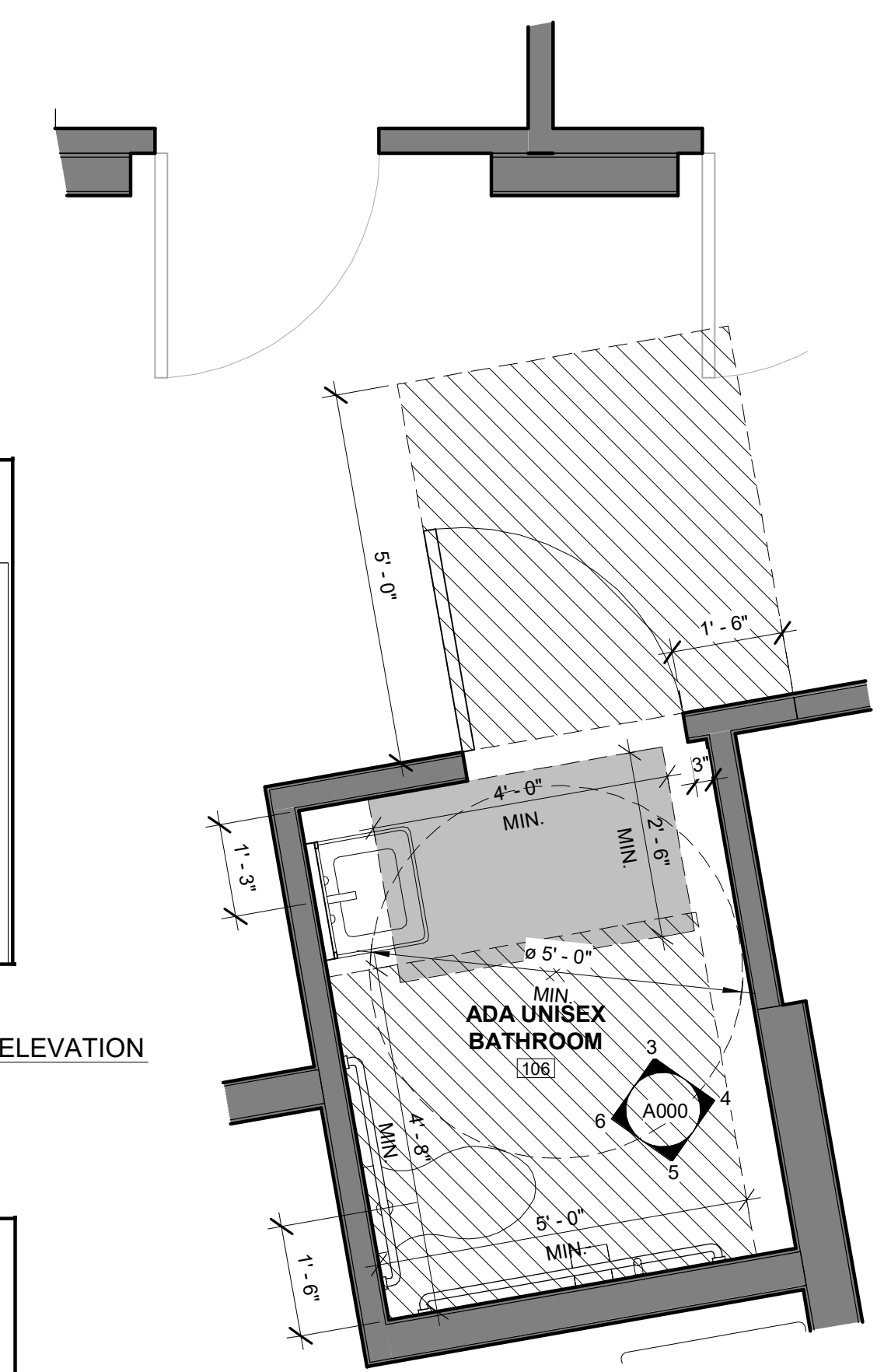
3 ADA BATH 106 - EAST ELEVATION  
3/8" = 1'-0"



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

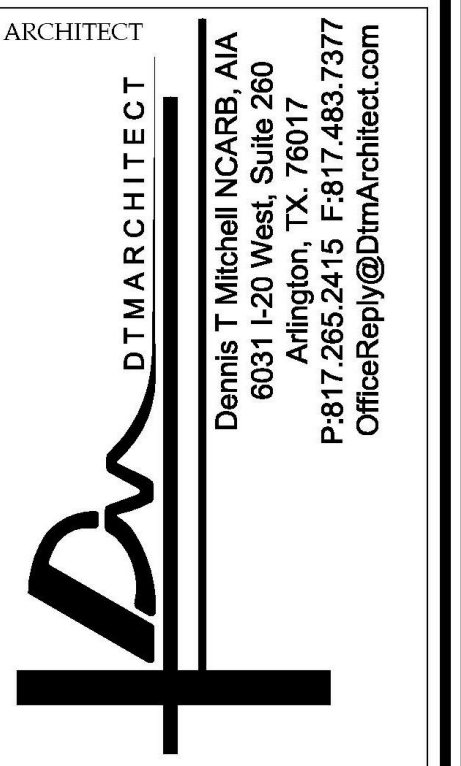


5 ADA BATH 106 - WEST ELEVATION  
3/8" = 1'-0"



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

ISSUED FOR BID  
2-12-2020



ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

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

MEP ENGINEER:  
PSP ASSOCIATES  
1105 MELLIEU DRIVE  
DOWNTOWNTOWN, PA 19335

MULHERN CONSULTING ENGINEERS  
321 SOUTH YORK ROAD  
HATBORO, PA 19040

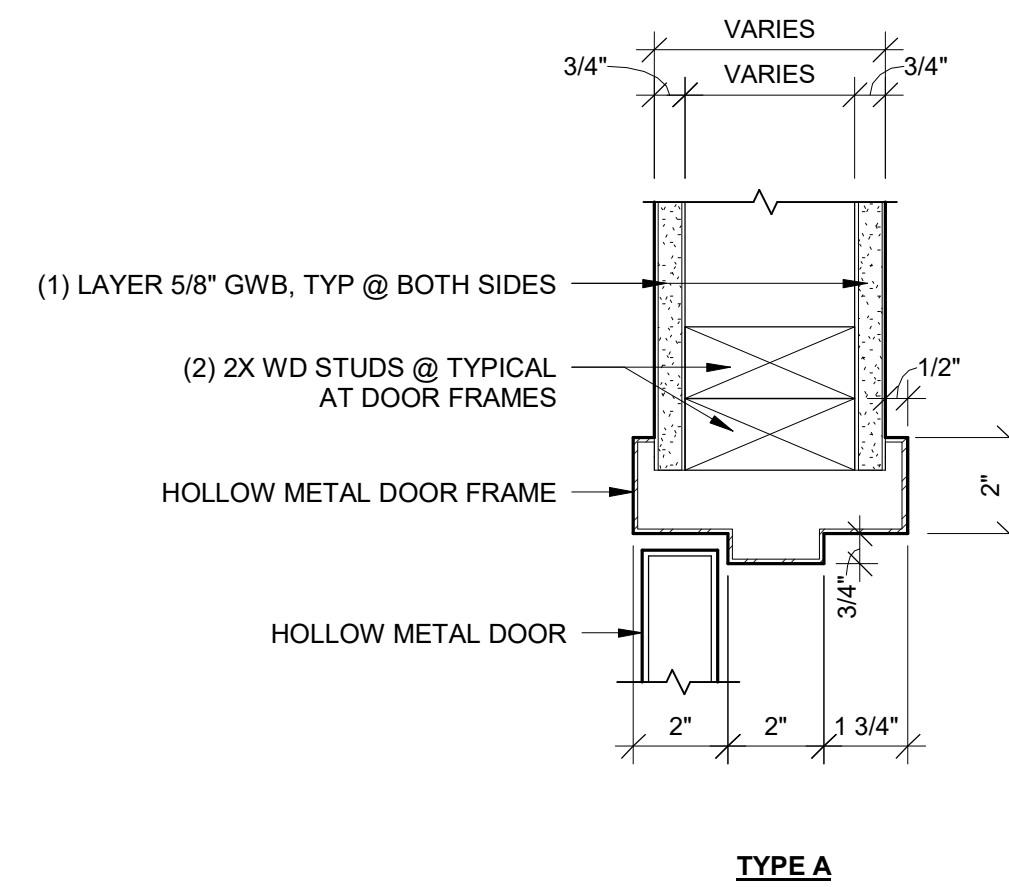
STRUCTURAL ENGINEER:  
CKS STRUCTURES, INC.  
280 N. PROVIDENCE RD, SUITE 105  
MEDIA, PA 19063

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

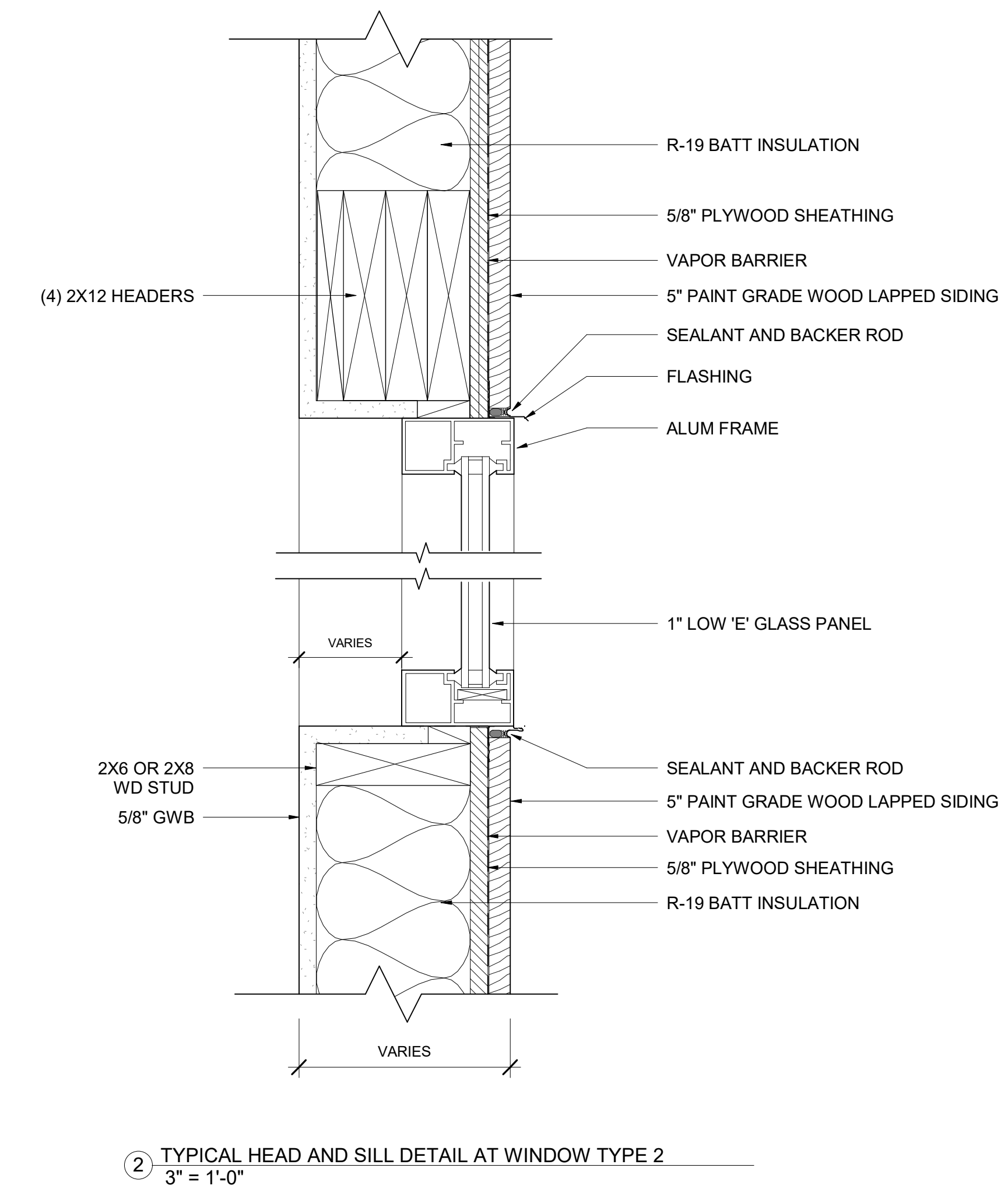
TITLE:  
BUILDING CODE ANALYSIS  
EGRESS PLAN, & ADA BATHROOMS  
DWG. NO. A000  
APPROVED BY: AT  
DRAWN/Author  
SCALAS indicated  
JOB#: 1610-021

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	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"	



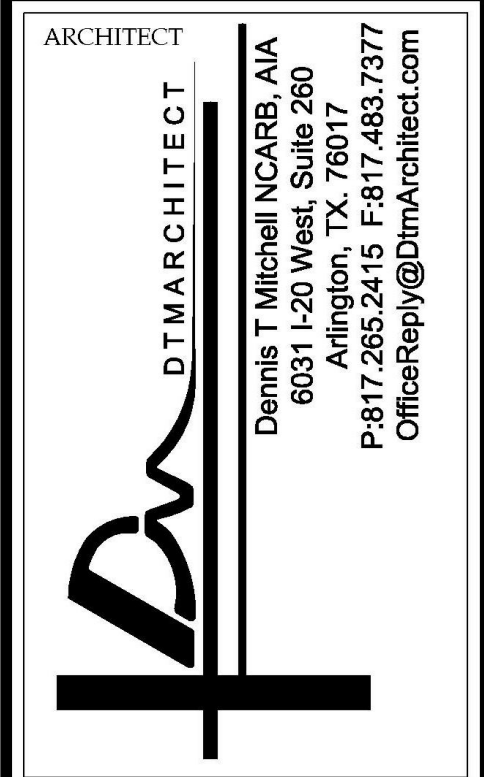
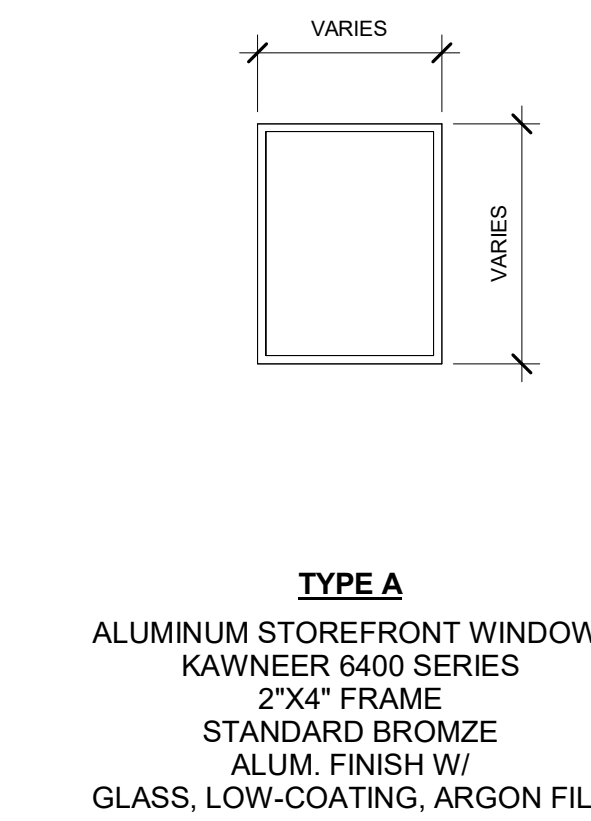
**DOOR TYPES**

DOOR PRICING NOTE: BIDDERS ARE ALLOWED TO SUBMIT ALTERNATE MANUFACTURERS WITH EQUAL SPECIFICATION

<p><b>TYPE A</b> HOLLOW METAL NON-RATED INTERIOR DOOR</p> <p><b>FRAME TYPE 1</b> HOLLOW METAL NON-RATED</p> <p><b>HARDWARE SET</b> CLOSER: LCN 4041 SRI SILENCER: WES SR 604 HINGES: HEAVY DUTY HAGER 1168 26D FINISH LOCKSET: SCHLAGE CLASSROOM EXIT PANIC BAR WALL BUMPER: WES WS402 CCV</p>	<p><b>TYPE A1</b> HOLLOW METAL NON-RATED EXTERIOR DOOR</p> <p><b>FRAME TYPE 1</b> HOLLOW METAL NON-RATED</p> <p><b>HARDWARE SET</b> CLOSER: LCN 4041 SRI SILENCER: WES SR 604 HINGES: HEAVY DUTY HAGER 1168 26D FINISH LOCKSET: SCHLAGE CLASSROOM EXIT PANIC BAR WALL BUMPER: WES WS402 CCV</p>	<p><b>TYPE B</b> ALUM &amp; GLASS INSULATED EXTERIOR DOOR MANUF.: SPECIAL LITE MODEL: SL-14 MEDIUM STILE 10\"/&gt; <p><b>FRAME TYPE 2</b> ALUM MANUF. SPECIAL LITE MODEL: SL-14 STANDARD COMMERCIAL FRAME BRONZE ALUM. FINISH</p> <p><b>HARDWARE SET</b> CLOSER: LCN 4041 SRI W/ HOLD OPEN ARM SILENCER: WES SR 604 FLUSHBOLTS: WES 458B 26D HINGES: SPECIAL LITE SL-120 LOCKSET: ADAMSRITE 4920AN-45-602-628 EXIT PADDLE: ADAMS RITE DEADLATCH PADDLE 4590-02-00-628 WALL BUMPER: WES WS402 CCV HANDLE: SPECIAL LITE SL100 BOTH SIDES</p> </p>	<p><b>TYPE C</b> HOLLOW METAL INSULATED EXTERIOR DOOR</p> <p><b>FRAME TYPE 1</b> HOLLOW METAL PAINTED FINISH</p> <p><b>HARDWARE SET</b> CLOSER: LCN 4041 SRI W/ HOLD OPEN ARM SILENCER: WES SR 604 FLUSHBOLTS: WES 458B 26D HINGES: SPECIAL LITE SL-120 LOCKSET: ADAMSRITE 4920AN-45-602-628 EXIT PADDLE: ADAMS RITE DEADLATCH PADDLE 4590-02-00-628 WALL BUMPER: WES WS402 CCV HANDLE: SPECIAL LITE SL100 BOTH SIDES</p>	<p><b>TYPE D</b> ALUM &amp; GLASS INSULATED EXTERIOR DOOR MANUF.: SPECIAL LITE MODEL: SL-14 MEDIUM STILE 10\"/&gt; <p><b>FRAME TYPE 3</b> ALUM MANUF. SPECIAL LITE MODEL: SL-14 STANDARD COMMERCIAL FRAME BRONZE ALUM. FINISH</p> <p><b>HARDWARE SET</b> CLOSER: LCN 4041 SRI W/ HOLD OPEN ARM SILENCER: WES SR 604 FLUSHBOLTS: WES 458B 26D HINGES: SPECIAL LITE SL-120 LOCKSET: ADAMSRITE 4920AN-45-602-628 EXIT PADDLE: ADAMS RITE DEADLATCH PADDLE 4590-02-00-628 WALL BUMPER: WES WS402 CCV HANDLE: SPECIAL LITE SL100 BOTH SIDES</p> </p>	<p><b>TYPE F</b> SINGLE IMPACT DOUBLE ACTING ELISION W/ PL. LAM GRAPHITE FINISH (AT B.O.H.)</p> <p><b>FRAME TYPE 5</b> PRE-HUNG BY GC</p> <p><b>HARDWARE SET</b> CLOSER: LCN 4041 SRI W/ HOLD OPEN ARM SILENCER: WES SR 604 FLUSHBOLTS: WES 458B 26D HINGES: SPECIAL LITE SL-120 LOCKSET: ADAMSRITE 4920AN-45-602-628 EXIT PADDLE: ADAMS RITE DEADLATCH PADDLE 4590-02-00-628 WALL BUMPER: WES WS402 CCV HANDLE: SPECIAL LITE SL100 BOTH SIDES</p>
--	---	---	---	---	--

**WINDOW TYPES**

WINDOW PRICING NOTE: BIDDERS ARE ALLOWED TO SUBMIT ALTERNATE MANUFACTURERS WITH EQUAL SPECIFICATION



ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

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

**MEP ENGINEER:**  
**PSP ASSOCIATES**  
1105 MELLIE DRIVE  
DOWNTOWNTOWN, PA 19335

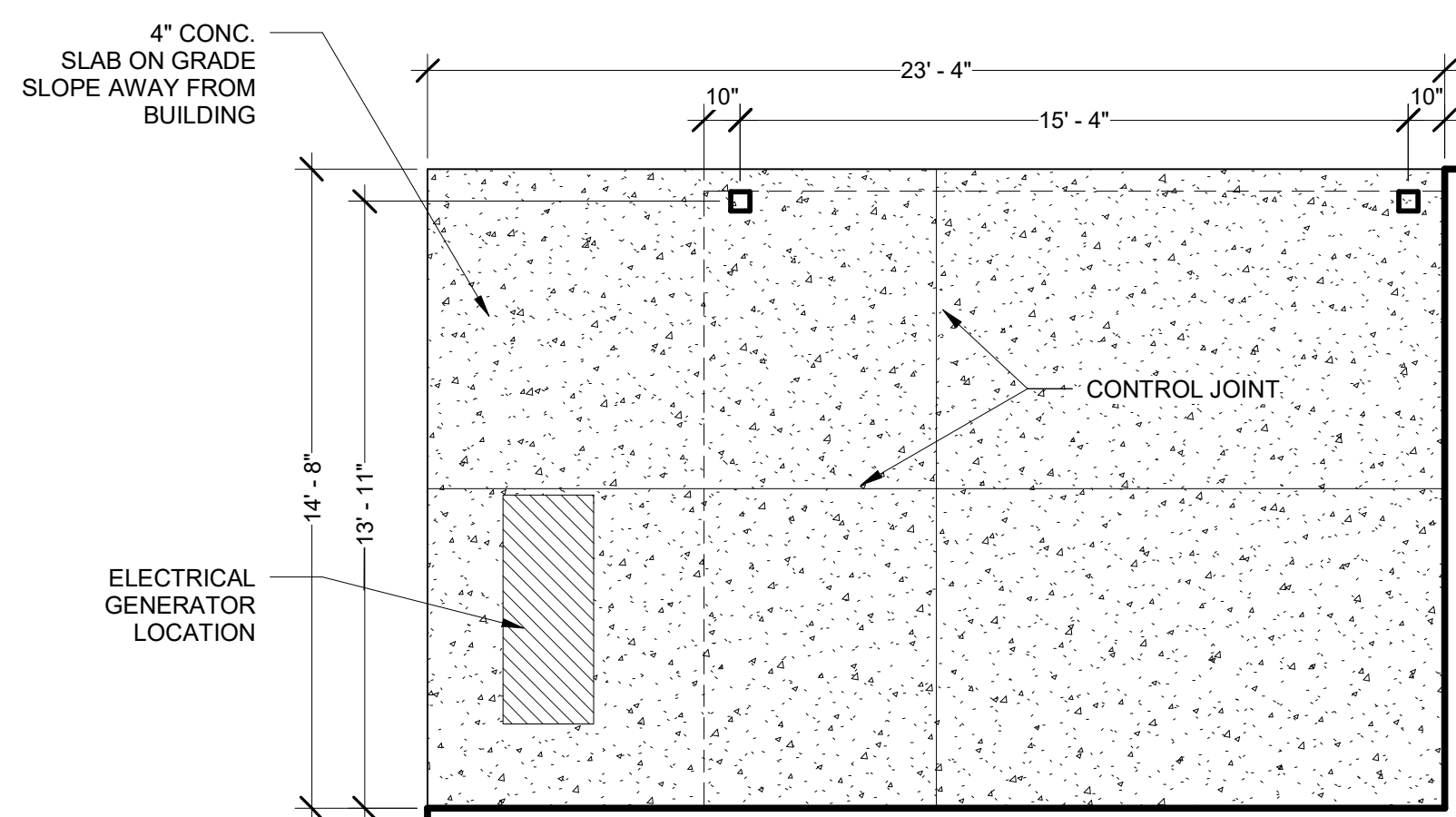
**MULHERN CONSULTING ENGINEERS**  
321 SOUTH YORK ROAD  
HATBORO, PA 19040

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

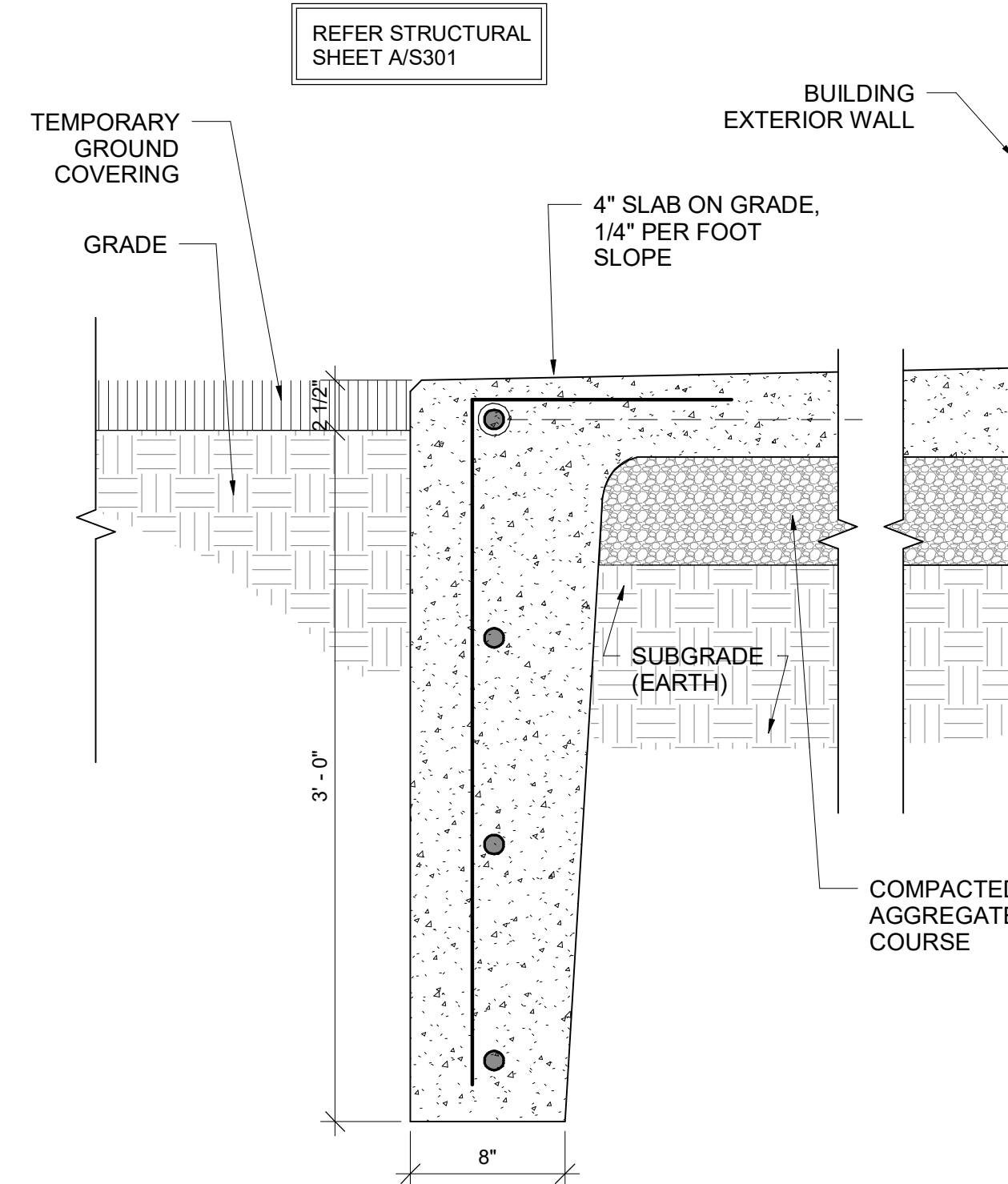
**CAPE MAY COUNTY ZOO SAFARI CAFE 2 NEW RETAIL FOOD BUILDING**  
 707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210

TITLE: DOOR AND WINDOW SCHEDULES AND DETAILS  
 DWG. NO. **A001**  
 DRAWN BY: PG APPROVED BY: AT  
 SCALAS indicated JOB#: 1610-021

**ISSUED FOR BID**  
**2-12-2020**



NEW ASPHALT DRIVEWAY, SLOPE AWAY FROM BUILDING



2 CONCRETE WALKWAY SECTION DETAIL  
1 1/2" = 1'-0"

Shade Structure  
By Superior Recreational Products

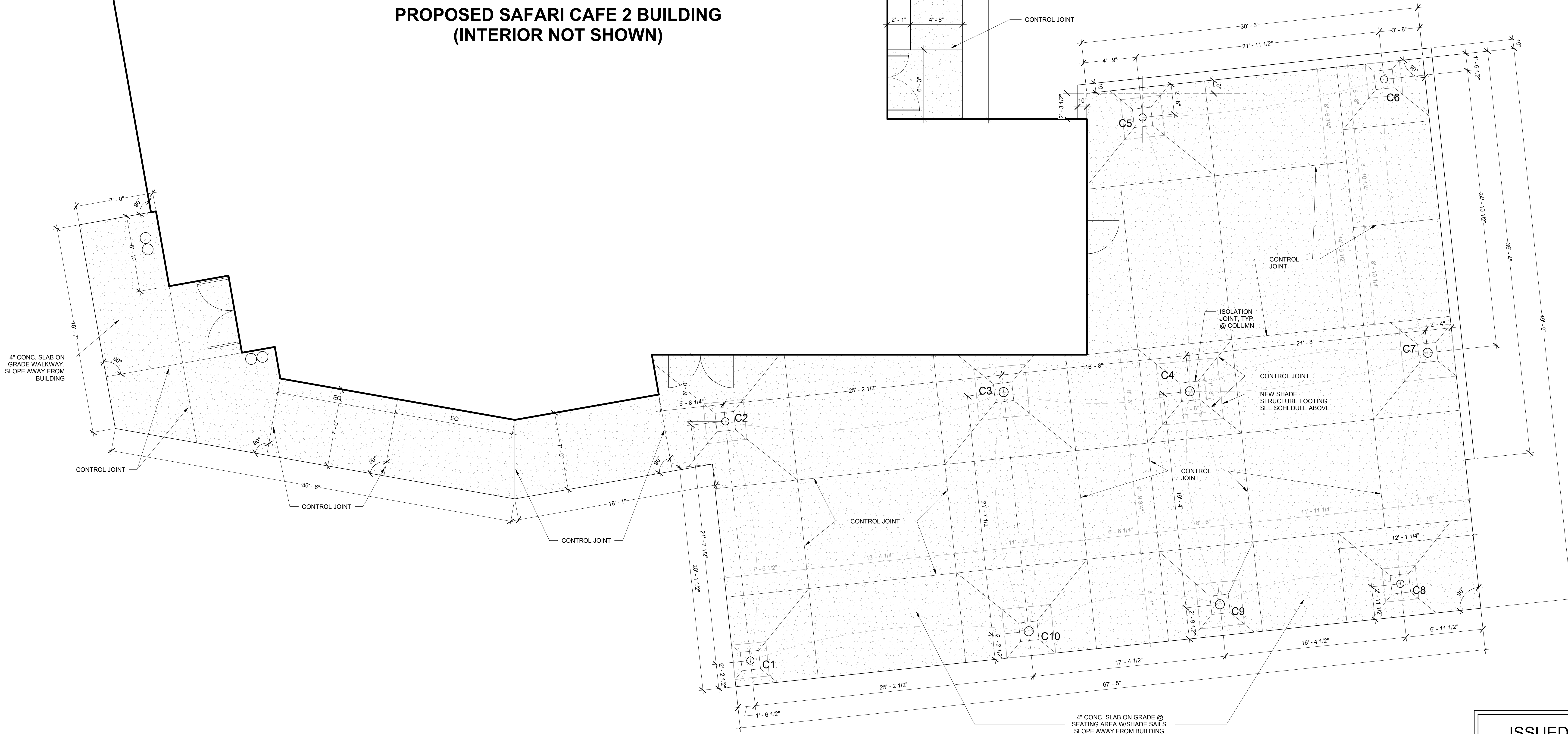
GC IS RESPONSIBLE TO COORDINATE W/ SHADE SAIL MANUFACTURER FOR THE PRODUCTION, SHIPPING AND INSTALLATION OF THE SYSTEM. SEE A100.1 FOR CONTACT INFO.

Column ID	Column Size	Est. Footing Size
C1	8" Sch40	3.1' x 3.1' x 3.0'
C2	8" Sch40	3.6' x 3.6' x 3.0'
C3	10" Sch40	4.6' x 4.6' x 3.0'
C4	10" Sch40	5.5' x 5.5' x 3.0'
C5	8" Sch40	3.6' x 3.6' x 3.0'
C6	8" Sch40	3.1' x 3.1' x 3.0'
C7	10" Sch40	4.7' x 4.7' x 3.0'
C8	8" Sch40	3.0' x 3.0' x 3.0'
C9	10" Sch40	4.0' x 4.0' x 3.0'
C10	10" Sch40	4.4' x 4.4' x 3.0'

Site Elevations

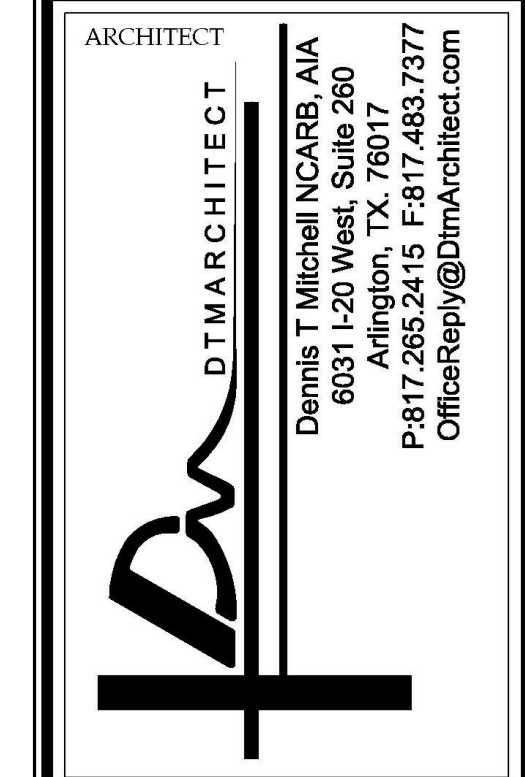
THE CAPE MAY COUNTY ZOO IS RESPONSIBLE TO PROVIDE DATUM ELEVATIONS OF EXISTING SITE AND THE NEW SITE IMPROVEMENT/ BUILDING.

PROPOSED SAFARI CAFE 2 BUILDING  
(INTERIOR NOT SHOWN)



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

ISSUED FOR BID  
2-12-2020

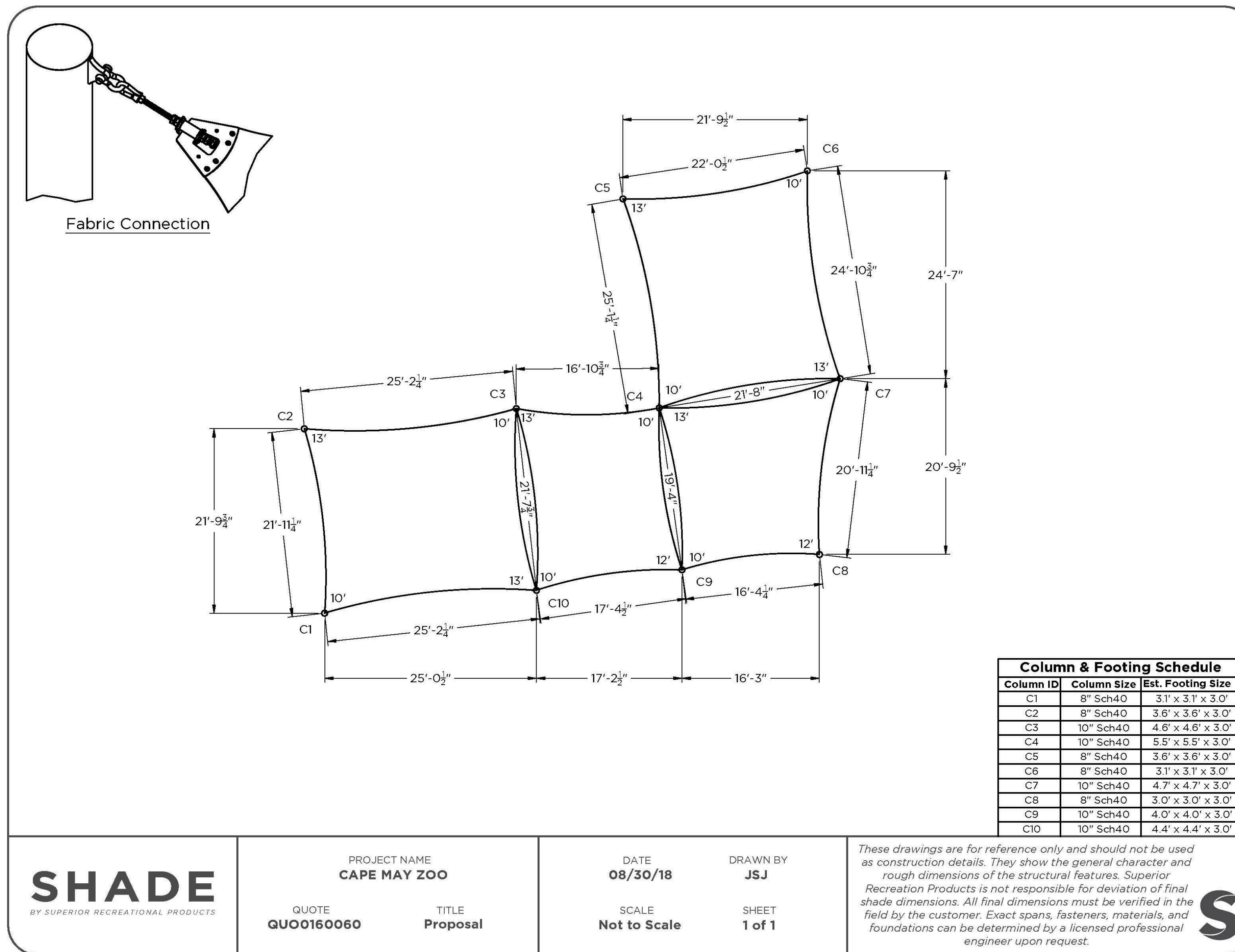


ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

- DESIGNER:  
**T+ASSOCIATES INC.**  
525 S. 4TH ST, STE 5912  
PHILADELPHIA, PA 19147  
T: 215.629.6374
- MEP ENGINEER:  
**PSP ASSOCIATES**  
1105 MELLIE DRIVE  
DOWNTOWNTOWN, 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:  
DETAIL SITE PLAN  
DWG. NO.  
**A100**  
DRAWN BY: PG APPROVED BY: AT  
SCALAS indicated JOB#: 1610-021



SHADE SAIL:

MANUFACTURER:

SUPERIOR RECREATIONAL PRODUCTS  
1050 COLUMBIA DR.  
CARROLLTON, GA 30117

1.800.327.8774  
SUPERIORRECREATION.COM

CONTACT: MICHAEL DERBECKER  
QUOTE #0160060

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.



ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

DESIGNER:

T+ASSOCIATES INC.  
525 S. 4TH ST, STE 5911  
PHILADELPHIA, PA 19147  
T: 215.629.6374

MEP ENGINEER:

PSP ASSOCIATES  
1105 MELLIE DRIVE  
DOWNTOWNTOWN, PA 19335

MULHERN CONSULTING ENGINEERS

321 SOUTH YORK ROAD  
HATBORO, PA 19040

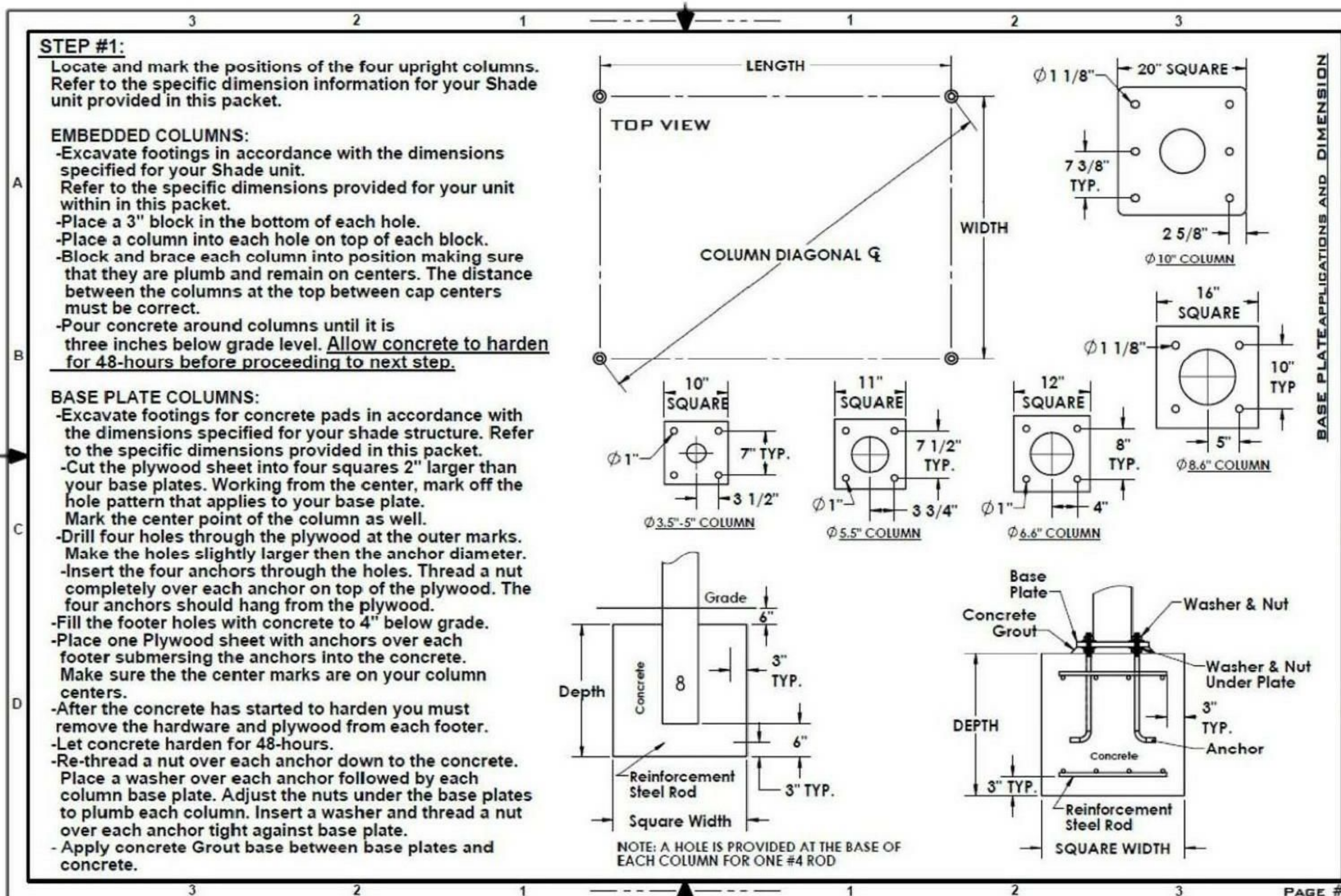
STRUCTURAL ENGINEER:

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

**SHADE**  
BY SUPERIOR RECREATIONAL PRODUCTS

PROJECT NAME: CAPE MAY ZOO  
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.



ISSUED FOR BID  
2-12-2020

TITLE: SHADE SAIL DETAILS  
DWG. NO. A100.1  
707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210  
APPROVED BY: AT  
JOB#: 1610-021  
DRAWN (Author)  
SCALE:



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 LATH 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 A100 & A100.1 FOR DETAILS

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

ISSUED FOR BID  
2-12-2020



ARCHITECT  
DTW ARCHITECT  
Dennis T. Michalek, AIA  
6000  
Arlington, TX 76017  
P: 817.265.2415 F: 817.483.7377  
OfficeReply@DtmArchitect.com

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

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

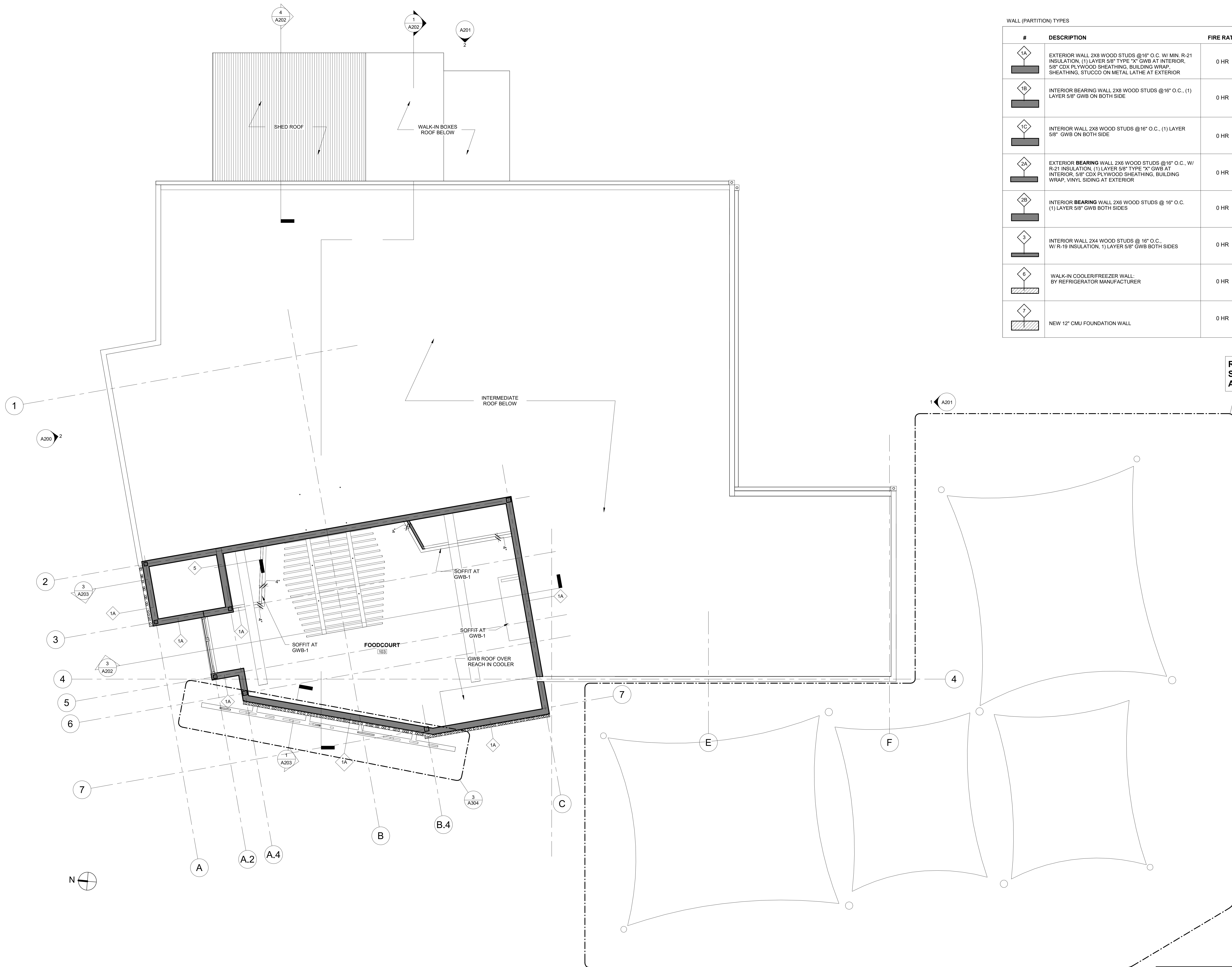
MEP ENGINEER:  
**PSP ASSOCIATES**  
1105 MELLIE DRIVE  
DOWNTOWNTOWN, PA 19335

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:  
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 A100 & A100.1 FOR DETAILS

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

ISSUED FOR BID  
2-12-2020



ARCHITECT  
D.T.M. ARCHITECT  
Dennis T. Mitchell NCARB, AIA  
6000 Ardmore, TX 76017  
P: 817.265.2415 F: 817.483.7377  
OfficeReply@DtmArchitect.com

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

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

MEP ENGINEER:  
**PSP ASSOCIATES**  
1105 MELLIEU DRIVE  
DOWNTOWNTOWN, PA 19335

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

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

707 ROUTE 9 NORTH, CAPE MAY COURT HOUSE, NJ 08210  
DRAWN/Author  
SCALE/1/4" = 1'-0"  
APPROVED BY: AT  
JOB#: 1610-021





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

ISSUED FOR BID  
2-12-2020

ARCHITECT  
DTM ARCHITECT  
Dennis T. Mitchell NCARB, AIA  
6000 Northpark Drive  
Arlington, TX 76017  
P: 817.285.2415 F: 817.483.7377  
OfficeReply@DtmArchitect.com

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

DESIGNER:  
**T+ASSOCIATES INC.**  
525 S. 4TH ST, STE 5914  
PHILADELPHIA, PA 19147  
T: 215.629.6374

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

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

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

TITLE:  
ROOF PLAN  
DWG. NO.  
**A102**

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

DESIGNER:  
**T+ASSOCIATES INC.**  
 525 S. 4TH ST., STE 5911  
 PHILADELPHIA, PA 19147  
 T: 215.629.6374

MEP ENGINEER:  
**PSP ASSOCIATES**  
 1105 MELLIEU 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

**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**

APPROVED BY: AT  
 16/10-021  
 DRAWN (Author)  
 SCALAS indicated

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

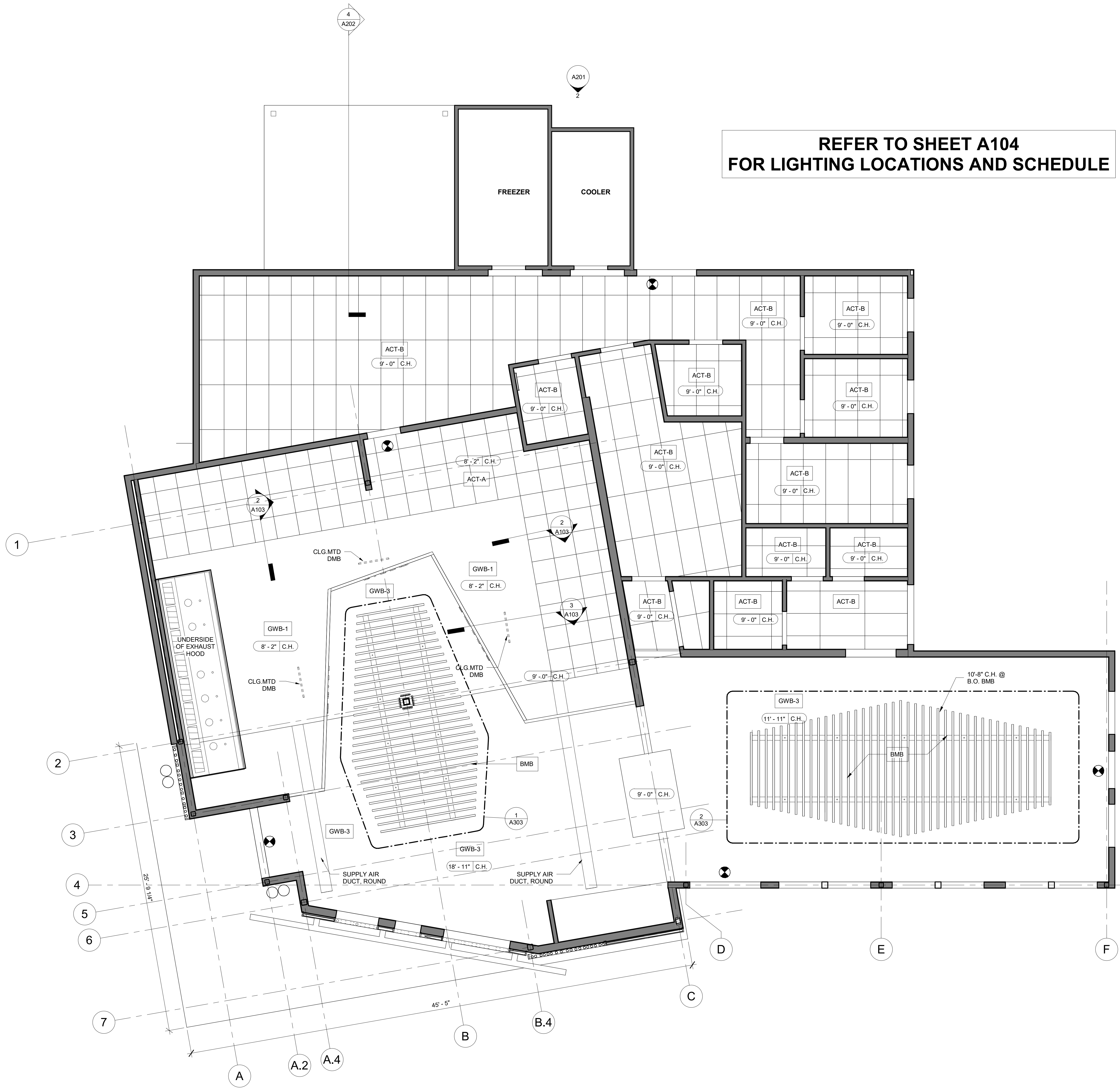
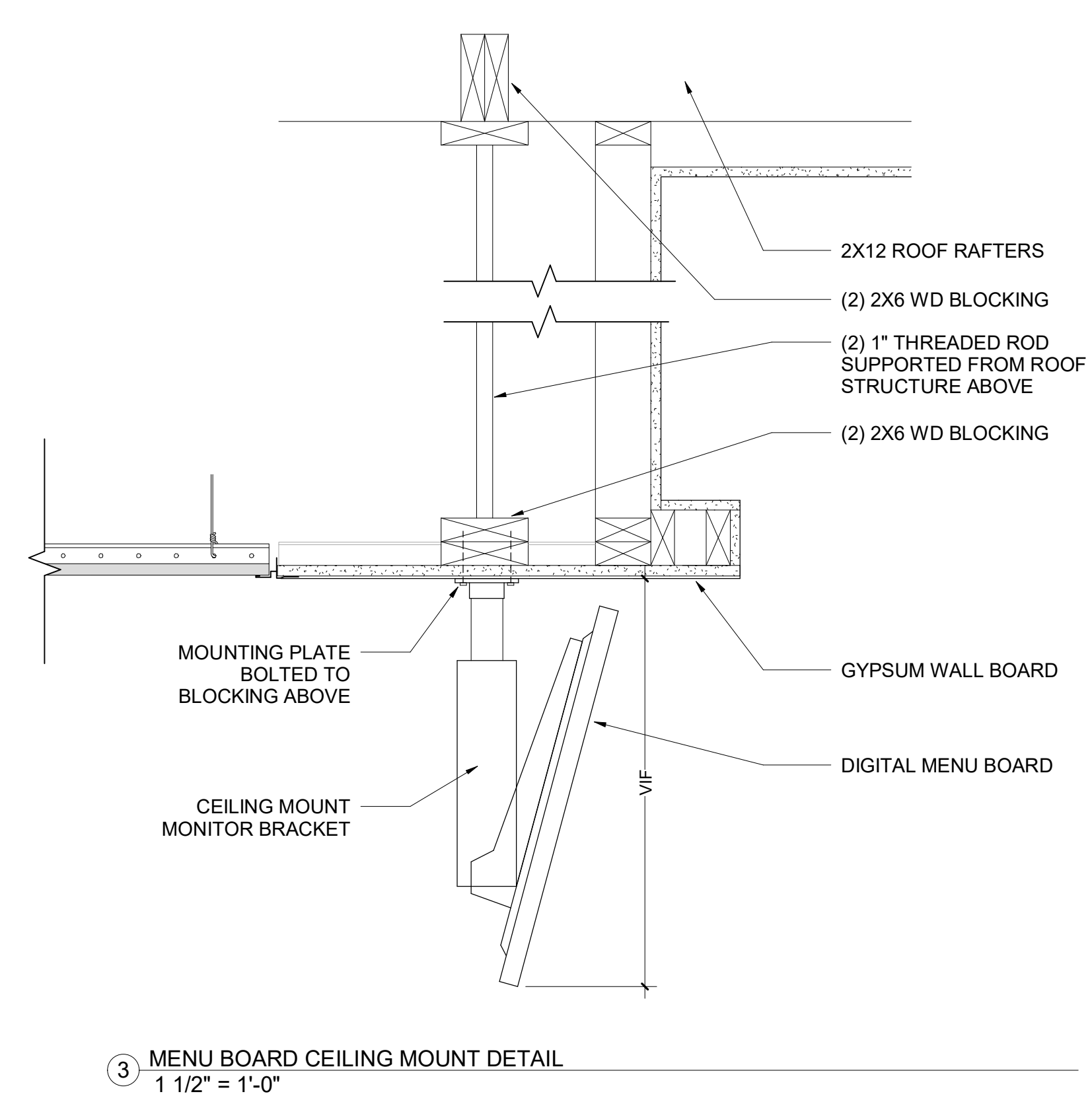
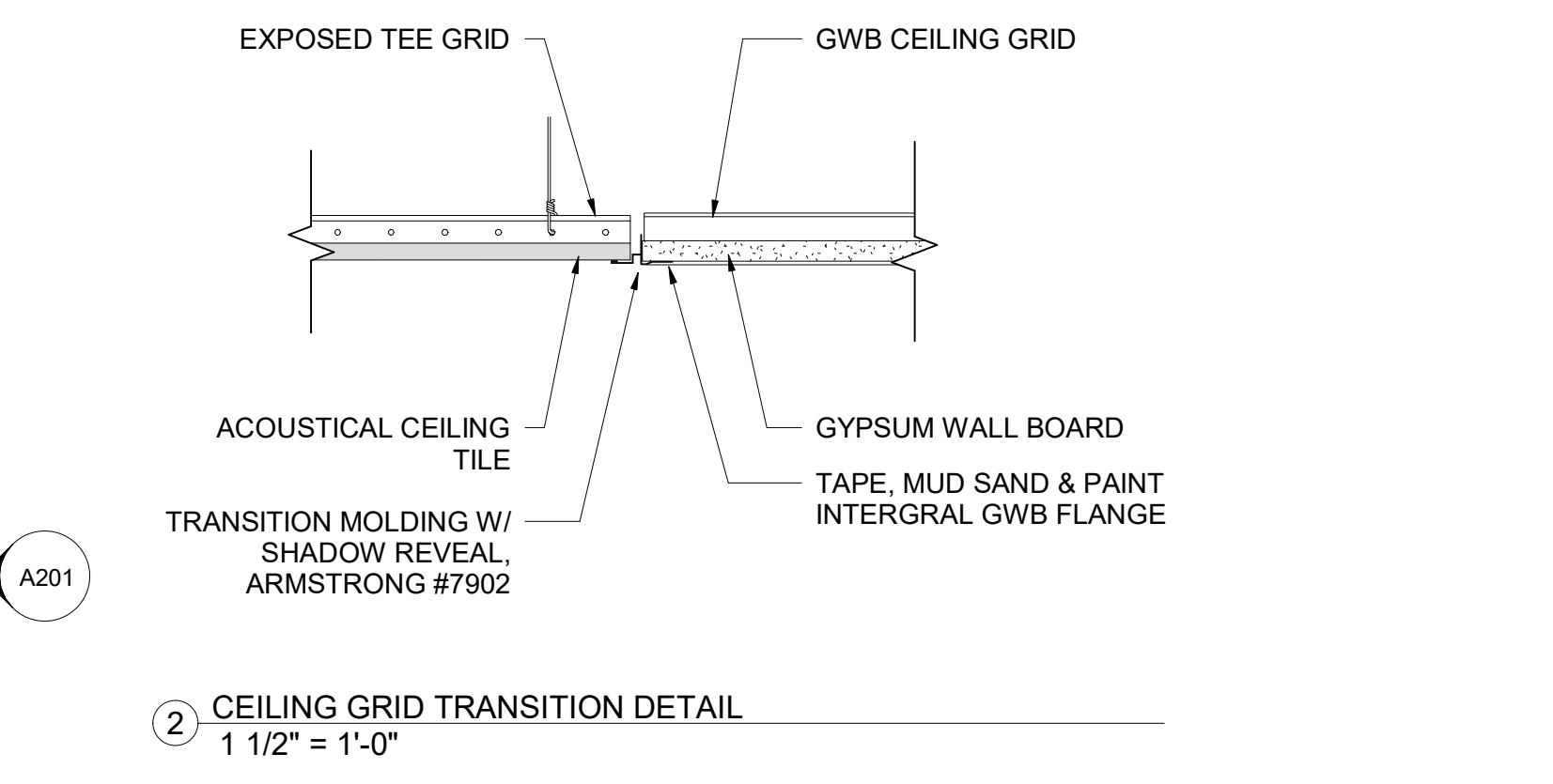
**SYMBOL LEGEND**

---	CENTERLINE OF LIGHT FIXTURE
⊗	EXIT SIGN
X'-X" C.H.	CEILING HEIGHT

**CEILING TYPES**

[Symbol]	GWB - #	GYPSUM WALL BOARD PAINT FINISH
[Symbol]	BMB	2" BAMBOO LOGS IN SUSPENDED STEEL FRAME
[Symbol]	ACT-A	2X2 ACOUSTIC CEILING: ARMSTRONG VL CLEAN ROOM CEILING, UNPERFORATED #868 W/ 15/16" W/ 1 1/2" EXPOSED TEE SYSTEM, WHITE
[Symbol]	ACT-B	2X4 ACOUSTIC CEILING: ARMSTRONG VL CLEAN ROOM CEILING, UNPERFORATED #879 W/ 15/16" W/ 1 1/2" EXPOSED TEE SYSTEM, WHITE

**CEILING MOUNT DEVICES**  
 DMB - 1, 2, & 3  
 60" DIGITAL MENU BOARD MONITORS TO BE PROVIDED BY ARAMARK, INSTALLED BY GC.  
 CEILING MONITOR BRACKET  
 PEERLESS-AV, "SMART MOUNT" #DS1995



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



**ISSUED FOR BID  
 2-12-2020**

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

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

MEP ENGINEER:  
**PSP ASSOCIATES**  
 1105 MELLIEN DRIVE  
 DOWNINGTOWN, PA 19335

MULHERN CONSULTING ENGINEERS  
 321 SOUTH YORK ROAD  
 HATBORO, PA 19040

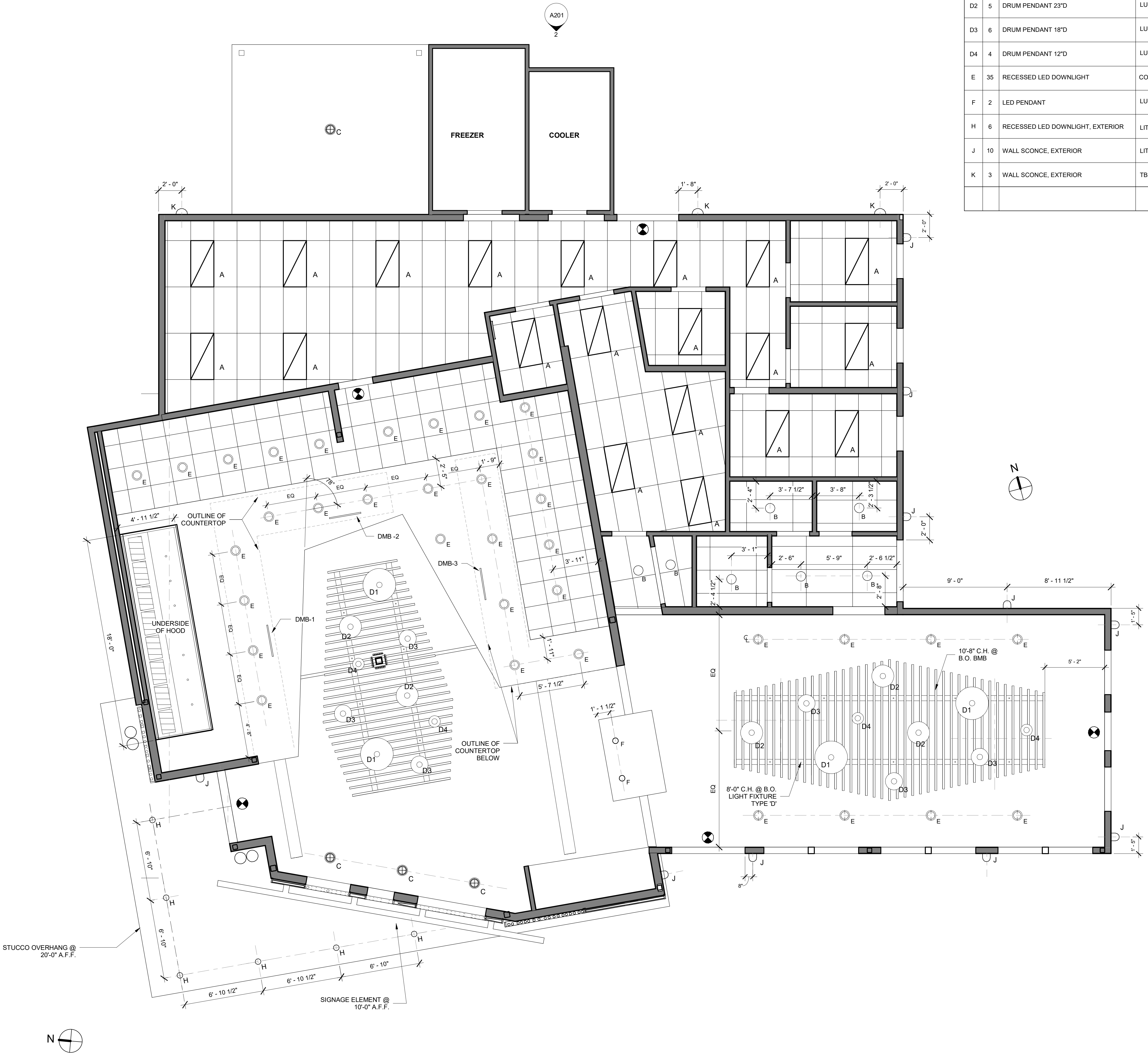
STRUCTURAL ENGINEER:  
**CKS STRUCTURES, INC.**  
 280 N. PROVIDENCE RD, SUITE 105  
 MEDIA, PA 19063

**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	P5314Z-F3-D82-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/LD30-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 / REALD66 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
- CEILING MOUNT DEVICES**
- DMB - 1, 2, & 3 50" DIGITAL MENU BOARD MONITORS TO BE PROVIDED BY ARAMARK, INSTALLED BY GC.
  - CEILING MONITOR BRACKET PEERLESS-AV, "SMART MOUNT" #DST995

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

ISSUED FOR BID  
 2-12-2020

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

DESIGNER:  
**T+ASSOCIATES INC.**  
 525 S. 4TH ST., STE 59147  
 PHILADELPHIA, PA 19147  
 T: 215.629.6374

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

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

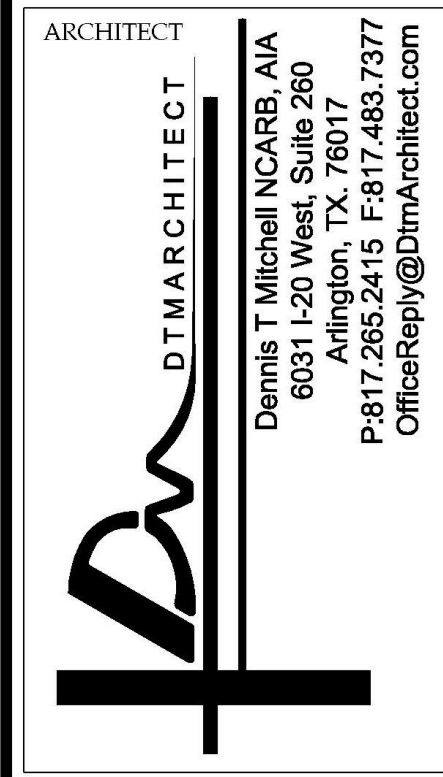
DRAWN FM/PG APPROVED BY: AT  
 SCALE 1/4" = 1'-0" JOB#: 1610-021

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

ISSUED FOR BID  
 2-12-2020



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



ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

DESIGNER:

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

MFP 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:  
EQUIPMENT LIST (BY LOCATION ON PLAN)  
DWG. NO. **A105.1**  
APPROVED BY: AT  
DRAWN (Author)  
SCALE: 1/2" = 1'-0"  
JOB#: 1610-021

**EQUIPMENT LIST - KITCHEN, SERVERY & DINING: GC IS RESPONSIBLE FOR PROVIDING, SETTING, AND ELECTRICAL/PLUMBING HOOK-UPS OF ALL EQUIPMENT LISTED HERE.**

LOCATION	EQUIP. NO.	COUNT	EQUIPMENT CATEGORY (MODEL NAME)	MANUFACTURER	MODEL NO.	DIMENSIONS (L x W(D) x H)	ELECTRICAL OR GAS	PLUMBING	COMMENTS
BACK OF THE HOUSE	N-100	1	3-COMPARTMENT POT SINK, (2) DRAINBOARDS	AMTEKCO	C3242424DC	120" X 29.75" X 41"		WATER SUPPLY: 1/2" IPS FOR H/C LINES; 1 1/8" FAUCET HOLES PUNCHED 8" OC; BASKET TYPE WASTE DRAIN @ 1 1/2" OUTLET FIT 3 1/2" BOWL OPNG	
	N-101	1	1-COMPARTMENT PREP SINK	ADVANCE TABCO	4-41-24	24" X 24"		(1) SET OF 1" FAUCET HOLES, 8" OC; WASTE DRAIN @ 1 1/2" IPS S/S BASKET	
	N-102	1	HAND WASHING SINK	ADVANCE TABCO	7-PS-66	14" X 10" X 12.75" (17.25 X 15.25 X 12.75)		(1) SET OF 1" FAUCET HOLES, 4" OC; SPLASH MOUNT; WASTE DRAIN @ 1 1/2" DIRECT SIZE	
	N-103	1	REACH-IN REFRIGERATOR (2-DOOR)	TRUE	TS-49-HC	54 1/8" X 29 1/2" X 78 3/8"	115V/60/1-PH; NEMA 5-15P; 5.8 AMPS; 1/3 HP		
	N-104	1	SINGLE-DOOR REACH-IN FREEZER, MOBILE	TRUE	T-23F	27" X 29 1/2" X 78 5/16"	115V/60/1-PH; NEMA 5-15P; 7.2 AMPS; 1/3 HP		
	N-105	1	ICE CUBER 475 LBS (PRODIGY PLUS)	SCOTSMAN	C0522MA-1	28" X 22" X 20"	115V/60/1-PH; 13.8 AMPS	WATER: 3/8"; WASTE INDIRECT DRAIN @ 3/4"	
	N-106	1	ICE BIN 370 LB CAPACITY	SCOTSMAN	B322S	34" X 22" X 44"		WASTE INDIRECT DRAIN @ 3/4"	
	N-107	3	STAINLESS STEEL WORKTABLE 30X48	AMTEKCO	STF2-3048	30" X 48"			
	N-110	1	SANDWICH UNIT, MOBILE (SANDWICH PREP)	TRUE	TSSU-72-30M-B-ST	72 3/8" X 34 1/8" X 29 3/4"	115V/60/1-PH; NEMA 5-15P; 10.3 AMPS; 1/2 HP		
	N-112	1	HEATED CABINET, MOBILE	METRO	CS69L-SFC-U	29 1/8" X 32 1/16" X 74.75"	120V/60/1-PH; NEMA 5-15P; 12 AMPS; 1.44 KW		
	N-150	2	SERVICE CART	CUSTOM	TBD	TBD			
	N-160	2	TRASH RECEPTACLE	SLIM JIM	FG354060	22" X 11" X 30"			
	N-162R	1	CLEAN DISHTABLE (RIGHT HAND SIDE)	AMTEKCO	CUSTOM	48" X 30" X 34"			
	N-162L	1	SOIL DISHTABLE (LEFT HAND SIDE), W/ DISPOSAL CONE & SPRAY	AMTEKCO	CUSTOM	48" X 30" X 34"			
	N-163	1	DISH WASHER	HOBART	AM15VL-2	29 1/4" X 35" X 69"(CLR 70 3/4")	208/240V/60/3-PH; NEMA 4; 24.9 AMPS; 2 HP		
	N-164	1	DISH RACK	METRO	PR48X3	24" X 48"			
	N-165	1	PRE-RINSE SPRAY	T&S BRASS AND BRONZE WORKS INC	B-0133-A08-B08C				
	N-166	1	DISPOSER WITH CONTROL PANEL	SALVAJOR	200-SA-6-ARSS-LD	6.5" SINK COLLAR	208/230V/60/3-PH; NEMA 4; 6 AMPS; 2 HP		
	N-167	2	SLANTED DISH RACKS	REGENCY	600 WR42	42" W			
	PIZZA	N-102	1	HAND WASHING SINK	ADVANCE TABCO	7-PS-66	14" X 10" X 12.75" (17.25 X 15.25 X 12.75)		(1) SET OF 1" FAUCET HOLES, 4" OC; SPLASH MOUNT; WASTE DRAIN @ 1 1/2" DIRECT SIZE
N-113		2	PIZZA CONVEYOR OVEN (DOUBLE STACK)	TURBOCHEF	HHC2620 VNTLSS	48.3" X 41.7" X 36"	208/240V/50/60/3-PH; NEMA 15-50P; 40.0 AMPS		
N-114		1	REACH-IN REFRIGERATOR (SINGLE DOOR), MOBILE	TRUE	T-23G-LD	27" X 29 3/4" X 78 3/8"	115V/60/1-PH; NEMA 5-15R; 7.9 AMPS; 1/3HP; MOCP 15		
N-115		1	PIZZA PREP TABLE - REFRIGERATOR	TRUE	TRP-60D-2	60.25" X 32.25" X 35.75"	115V/60/1-PH; NEMA 5-15R; 7.9 AMPS; 1/3HP; MOCP 15		
N-117		1	DISPLAY MERCHANDISER (DUAL SHELF)	HATCO (GLO-RAY)	GR35DH-39D	39" X 27" X 26"	120/208V/60/1-PH; NEMA L14-20P; 2.685KW; 12.4 AMPS		
N-149		1	PIZZA/GRILL FRONT COUNTER	CUSTOM				SEE MILLWORK DETAILS	
N-151		1	PIZZA STORAGE CART	METRO	RD13N	69 1/4" X 21 1/4" X 26 1/2"			
N-160		2	TRASH RECEPTACLE	SLIM JIM	FG354026	22" X 11" X 30"			
N-168A		2	SNEEZE GUARD	BSI	ZG 9500 - MW1	40" L			BR. ALUM 1" RAD. CORNERS
GRILL		N-102	1	HAND WASHING SINK	ADVANCE TABCO	7-PS-66	14" X 10" X 12.75" (17.25 X 15.25 X 12.75)		(1) SET OF 1" FAUCET HOLES, 4" OC; SPLASH MOUNT; WASTE DRAIN @ 1 1/2" DIRECT SIZE
	N-104	1	SINGLE-DOOR REACH-IN FREEZER, MOBILE	TRUE	T-23F	27" X 29 1/2" X 78 5/16"			
	N-109	1	STAINLESS STEEL WORKTABLE 30X36	AMTEKCO	STF2-3036	30" X 36"			
	N-118	2	FRYER BATTERY - 40 LB FAT CAPACITY FULL POT FRYER, MOBILE	FRYMASTER	MJ135	15 5/8" X 31 1/2" X 41"	120V/60/1-PH; 6.3 AMPS; 1/2 HP - GAS 3/4"; MBTU 110.0		
	N-119	1	FRY DUMP STATION	FRYMASTER	FWH-1		120V/60/1-PH; 6.3 AMPS		
	N-120	1	BREAD SHELF	METRO	ERECTA WALL MOUNT	(3) SHELVES 12" X 36"			
	N-124LR	1 EA	EXHAUST HOOD WITH MAKE-UP AIR IN CEILING REGISTER	CAPTIVE-AIRE	2857931	240" X 30" X 47"			
	N-124.1	1	FIRE SYSTEM	CAPTIVE-AIRE	2857931	-			
	N-124.2	1	ELECTRICAL SYSTEM	CAPTIVE-AIRE	2857931	-			
	N-127	2	DISPLAY MERCHANDISER (DUAL SHELF)	HATCO (GLO-RAY)	GR35DH-39D	39" X 27" X 26"	120/208V/60/1-PH; NEMA L14-20P; 2.685KW; 12.4 AMPS		
	N-128	2	REACH-IN UNDERCOUNTER FREEZER	TRUE	TUC-60F-LP	60 5/16" X 30 1/16" X 31 7/8"	115V/60/1-PH; NEMA 5-15P; 8.0 AMPS; 1/3HP; 15.0 MOCP		
	N-129	1	HOT DOG GRILL	APW WYOTT	HRS-45	23.75" X 29 9/16" X 10.25"	120V/60/1-PH; 1485 W; NEMA 6-15P; 12.2 AMPS; 1/3HP; 15.0 MOCP		
	N-153	1	COUNTERTOP GRIDDLE	VULCAN	YCRG48-T	48" X 20 1/2" X 1"	GAS 3/4"; MBTU 100.0		
	N-154	1	REFRIGERATED BASE - 4'	TRUE	TRCB-48	48 3/8" L	115V/60/1-PH; NEMA 5-15P; 10.3 AMPS; 1/3HP; 15.0 MOCP		
	N-155	1	24" CHARBROILER	VULCAN	VACB25	24" X 30"	GAS MBTU 66.0		
	N-157	1	COUNTERTOP HOT PLATE (12" (2) BURNER HOT PLATE - GAS)	VULCAN	VHP212U	-			
	N-158	1	SANDWICH UNIT	TRUE	TSSU-27-12M-B-ADA-HC	27 5/8" X 34 1/8" X 40 3/8"	115V/60/1-PH; NEMA 5-15P; 4.9 AMPS; 1/5HP; 15.0 MOCP		
	N-160	2	TRASH RECEPTACLE	SLIM JIM	FG354060	22" X 11" X 30"			
	N-168	2	SNEEZE GUARD	BSI	ZG 9500 - 2 - MW1	(2) SECTION, TOTAL 80" L			BR. ALUM 1" RAD. CORNERS
	GRAB - N - GO/ ICE CREAM	N-102	1	HAND WASHING SINK	ADVANCE TABCO	7-PS-66	14" X 10" X 12.75" (17.25 X 15.25 X 12.75)		(1) SET OF 1" FAUCET HOLES, 4" OC; SPLASH MOUNT; WASTE DRAIN @ 1 1/2" DIRECT SIZE
N-109		1	STAINLESS STEEL WORKTABLE 30X36	AMTEKCO	STF2-3036	30" X 36"			
N-126		2	SOFT SERVE	STOELTING	F131-38	22" X 28 1/2" X 34 3/4"	208-230V/60/1-PH; AFF 1 1/2"; NEMA 6-20P; 12.0 AMPS; (2) 3/4 HP	WATER COOLED UNITS REQUIRE 3/8" N.P.T. WATER AND DRAIN FITTINGS	
N-131		2	HORIZONTAL CHEST FREEZER	TRUE	FM-51AL	51.25" X 26 3/8" X 34"	115V/60/1-PH; NEMA 5-15P; 4.1 AMPS; 1/3 HP; MOCP 15.0		
N-132		1	DUAL TEMP DISPLAY CASE	FEDERAL INDUSTRIES	CGR5042DZ	50" X 35" X 42"	120V/60/1-PH; NEMA 5-15P; 8.0 AMPS; 96 KW; 1/3 HP		
N-133		1	CONVECTION OVEN (COUNTERTOP)	EQUIPEX	FC-60	24" X 24" X 24"	208/240V/60/1-PH; NEMA 6-20P; 13.0/15.0 AMPS; 3.3 KW		
N-134		1	HEATED PRETZEL DISPLAY CASE (COUNTERTOP)	TBD	CUSTOM				
N-135		1	POPCORN POPPER (COUNTERTOP)	GOLD MEDAL	2011EN	32 OZ CAPACITY			
N-136		1	WORK TOP REFRIGERATOR	TRUE	TWT-60	60 3/8" X 30 1/8" X 33 3/8"	115V/60/1-PH; NEMA 5-15P; 5.1 AMPS; (2) 3/4 HP		
N-138		3	STAINLESS STEEL WORKTABLE 30X60	AMTEKCO	STF2-3060	30" X 60"			
N-139		1	COFFEE MAKER	BY VENDOR - NIC	TBD	TBD			
N-148		1	FRONT COUNTER (AT ICE CREAM)	CUSTOM				SEE MILLWORK DETAILS	
N-152		1	HOT CHOCOLATE	BY VENDOR - NIC	TBD	TBD			
N-156		1	ICEE DISPENSER	BY VENDOR - NIC	TBD	TBD			
N-160		2	TRASH RECEPTACLE	SLIM JIM	FG354060	22" X 11" X 30"			
BEVERAGE ISLAND	N-137	1	ICEE DISPENSER	BY VENDOR - NIC	TBD	TBD			
	N-141	1	FOUNTAIN SODA MACHINE	BY VENDOR - NIC	TBD	TBD		ALLOWANCE FOR WATER FILTER, (ELEC. HOOK UP)	
	N-145	1	BEVERAGE COUNTER W/ UNDERCOUNTER STORAGE CABINETS	CUSTOM				SEE MILLWORK DETAILS	
B-I-B CLOSET	N-140	1	WATER FILTER SYSTEM FOR SODA DISPENSER	BY VENDOR - NIC	TBD	TBD			GC TO PROVIDE 6" PVC CONDUIT FOR EACH LINE THROUGH CEILING AND WALL AS SHOWN IN PLAN
	N-142	1	CARBONATOR	BY VENDOR - NIC	TBD	TBD			
CASHIER STATION	N-143	1	CASHIER COUNTER (FOR TWO)	CUSTOM				SEE MILLWORK DETAILS	
	N-144	1	CONDIMENT COUNTER (DINING ROOM)	CUSTOM				SEE MILLWORK DETAILS	
	N-130	2	OPEN AIR-SCREEN SELF-SERVE REFRIGERATOR	FEDERAL INDUSTRIES	RSSM-67BSC	71.25" X 35.25" X 78"	120/208V/60/1-PH; NEMA L14-20P; 15 AMPS; 1 HP		
N-161	1	SOFTDRINK BOTTLE GRAB-N-GO	TRUE	THAC-60-S	60" W	115V/60/1-PH; NEMA 5-20P; 15.0 AMPS; 3/4 HP			
TRAY RETURN AREA	N-146	2	TRAY RETURN/TRASH	CUSTOM				SEE MILLWORK DETAILS	
DRY STORAGE	N-169	6	SHELVES	METRO	MQ1548G W/4-TIER W/ CASTERS	15" X 48"			
	N-169A	2	SHELVES	METRO	MQ2460G W/4-TIER W/ CASTERS	24" X 60"			
COOLER	N-169	4	SHELVES	METRO	MQ1548G W/4-TIER W/ CASTERS	15" X 48"			
	N-169A	2	SHELVES	METRO	MQ2460G W/4-TIER W/ CASTERS	24" X 60"			
FREEZER	N-169A	4	SHELVES	METRO	MQ2460G W/4-TIER W/ CASTERS	24" X 60"			
	N-169B	2	SHELVES	METRO	MQ1842G W/4-TIER W/ CASTERS	18" X 42"			

**EQUIPMENT LIST: ARAMARK IS RESPONSIBLE FOR PROVIDING AND INSTALLATION OF EQUIPMENT LISTED HERE. GC IS TO PROVIDE NECESSARY DATA CONNECTIONS.**

LOCATION	EQUIP. NO.	COUNT	EQUIPMENT CATEGORY (MODEL NAME)	MANUFACTURER	MODEL NO.	DIMENSIONS (L x W(D) x H)	ELECTRICAL OR GAS	COMMENTS
CASHIER	ARA - 1	3	POS					

ISSUED FOR BID  
2-12-2020

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

DESIGNER:  
**T+ASSOCIATES INC.**  
 525 S. 4TH ST, STE 5912  
 PHILADELPHIA, PA 19147  
 T: 215.629.6374

MFP ENGINEER:  
**PSP ASSOCIATES**  
 1105 MELLIE DRIVE  
 DOWNTOWNTOWN, 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:  
**MILLWORK, FURNITURE AND  
 TECHNICAL PLAN**  
 DWG. NO.  
**A106**

APPROVED BY: AT  
 16/10-021  
 JOB#:  
 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 ARAMARK BEFORE INSTALL. ANY DATA AND POWER INSTALLED WITHOUT APPROVAL BY DESIGNER AND ARAMARKS 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: SP2430RT 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 NYLON 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: GRAND RAPIDS CHAIR OPLA TABLE OP30S CAPE TABLE SIZE: 30X30 COLOR: ALLOY SILVER	50	C-3	OUTDOOR CHAIR	MANUF: GRAND RAPIDS OPLA CHAIR 840-ALLOY-SILVER SIZE: SIDE CHAIR COLOR: ALLOY SILVER	100



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

ISSUED FOR BID  
 2-12-2020



ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

DESIGNER:  
**T+ASSOCIATES INC.**  
 525 S. 4TH ST, STE 5912  
 PHILADELPHIA, PA 19147  
 T: 215.629.6374

MEP ENGINEER:  
**PSP ASSOCIATES**  
 1105 MELLIEN DRIVE  
 DOWNTOWNTOWN, 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

APPROVED BY: AT  
 16/10-021  
 DRAWN/Author  
 SCALAs indicated

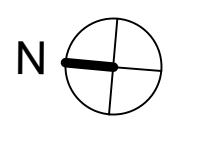
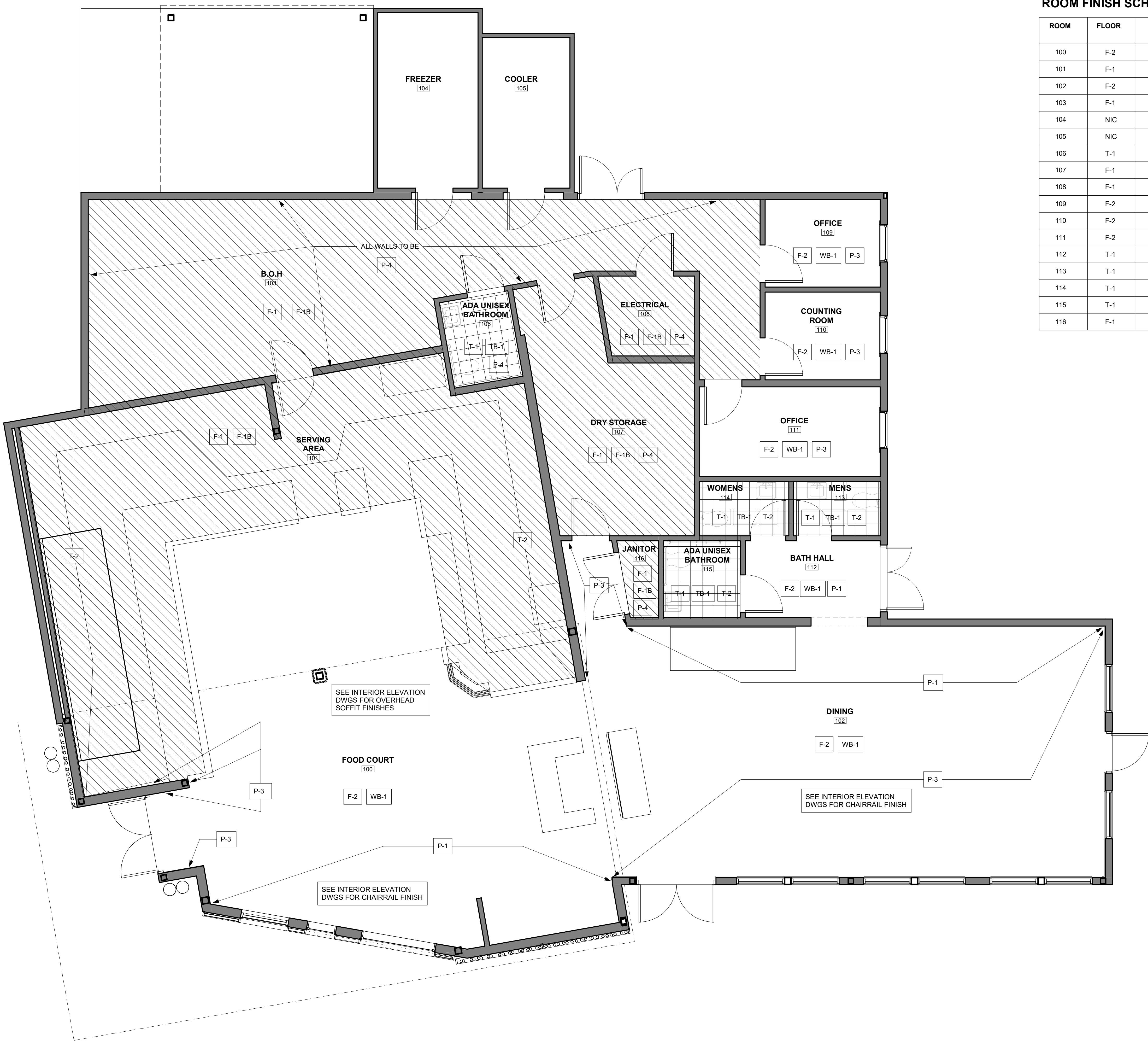
TITLE:  
**FINISH PLAN**  
 DWG. NO. **A107**

**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)	-

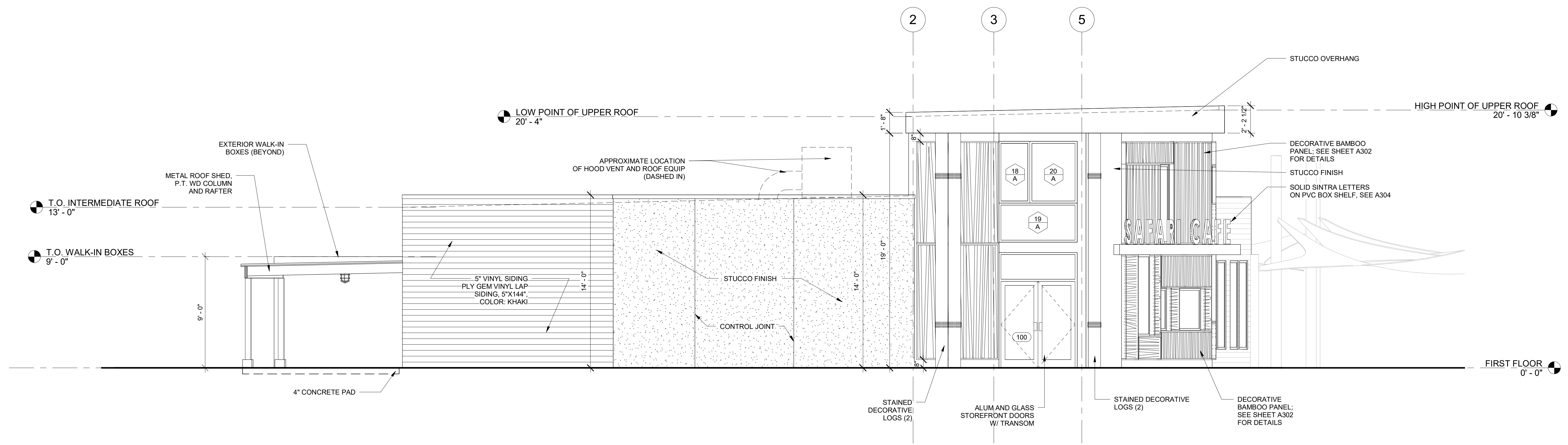
**FINISHES LIST - FLOOR & WALL**

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

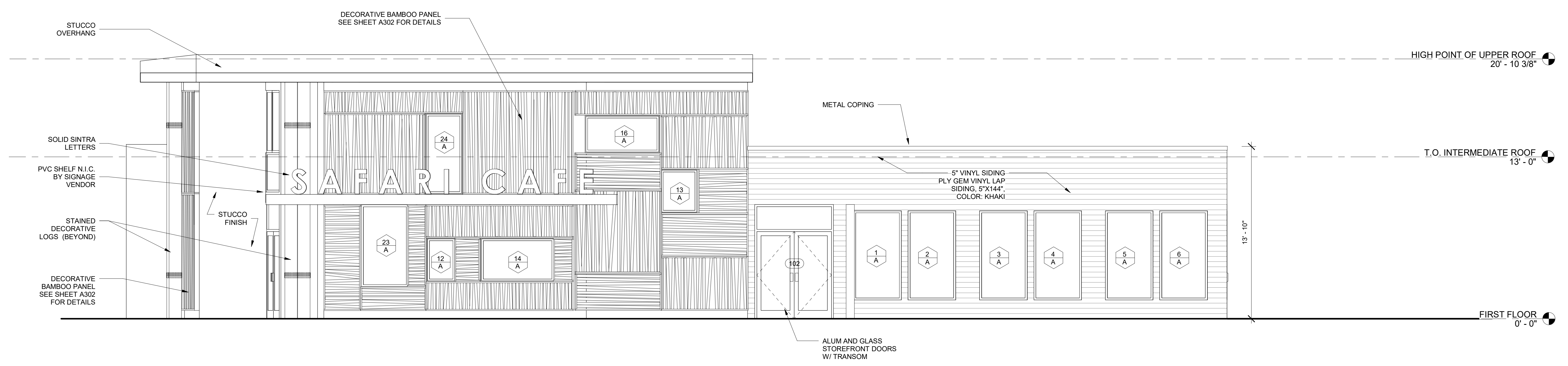


1 FIRST FLOOR - FINISHES PLAN  
 1/4" = 1'-0"

ISSUED FOR BID  
 2-12-2020



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



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

ARCHITECT  
DTM ARCHITECT  
Dennis T. Mitchell, AIA  
6060 North Loop West  
Arlington, TX 76017  
P: 817.265.2415 F: 817.483.7317  
OfficeReply@DtmArchitect.com

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

DESIGNER:  
**T-ASSOCIATES INC.**  
525 S. 4TH ST, STE 5911  
PHILADELPHIA, PA 19147  
T: 215.629.6374

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

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

TITLE:  
EXTERIOR ELEVATIONS  
DWG. NO.  
**A200**

ISSUED FOR BID  
2-12-2020



ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:  
 DESIGNER:  
**T+ASSOCIATES INC.**  
 525 S. 4TH ST, STE 591  
 PHILADELPHIA, PA 19147  
 T: 215.629.6374

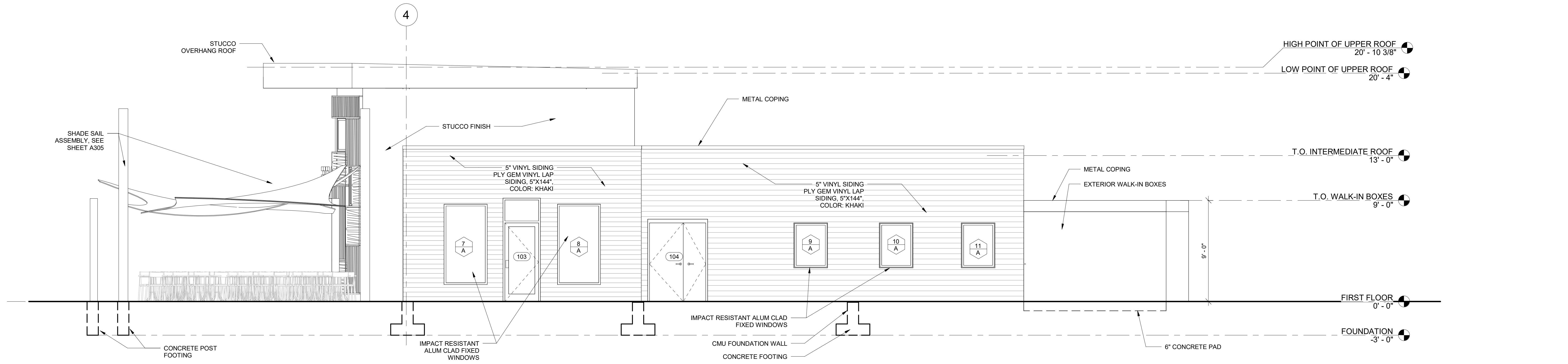
MEP ENGINEER:  
**PSP ASSOCIATES**  
 1105 MELLIEU DRIVE  
 DOWNINGTOWN, PA 19335

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

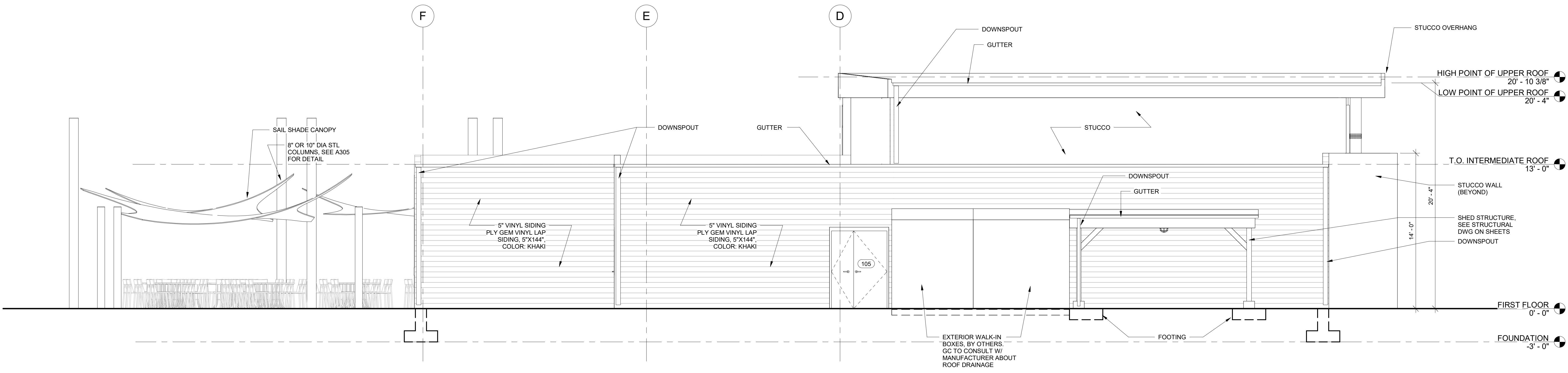
**CKS STRUCTURES, INC.**  
 280 N. PROVIDENCE RD, SUITE 105  
 MEDIA, PA 19063

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

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

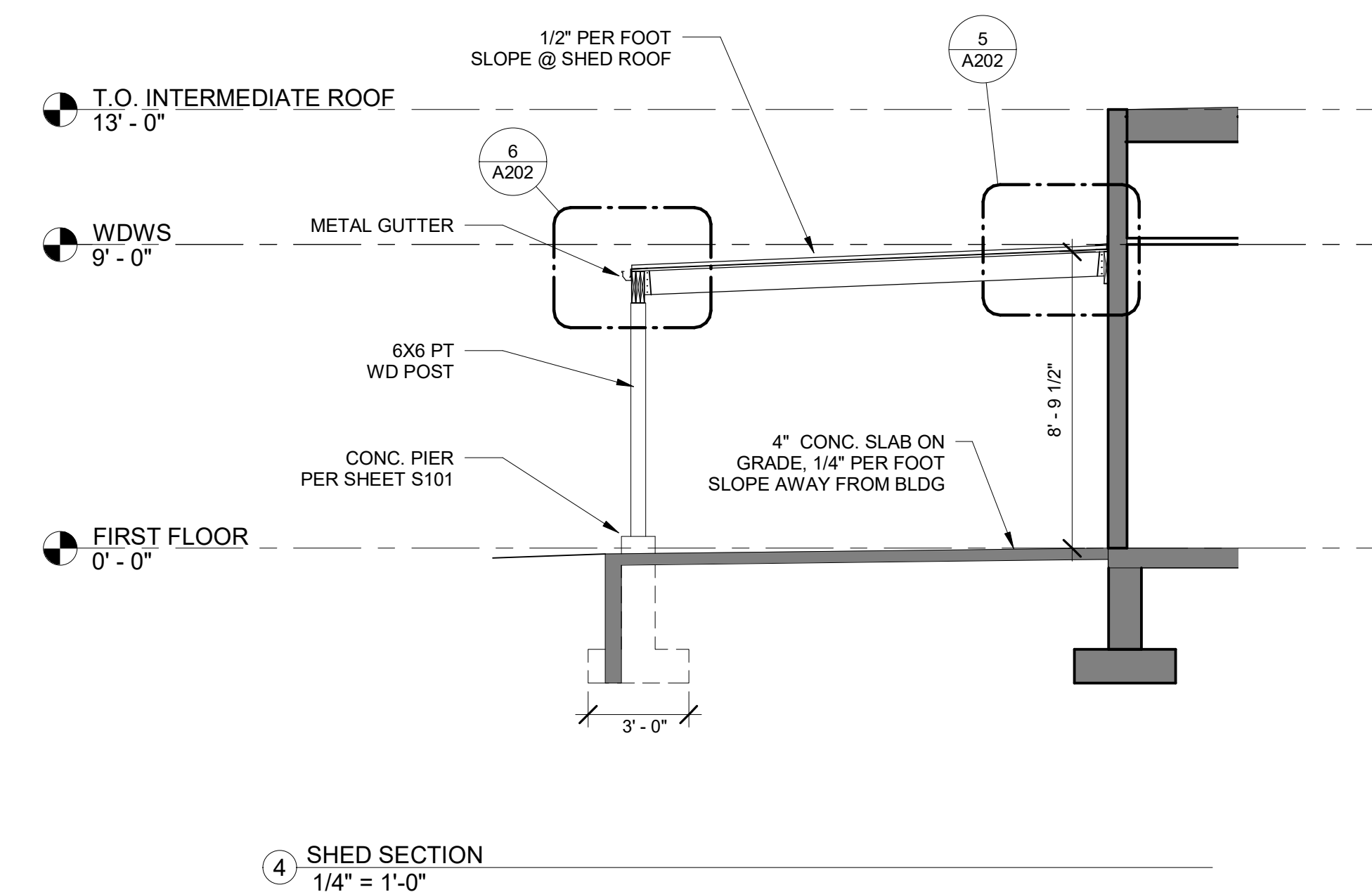
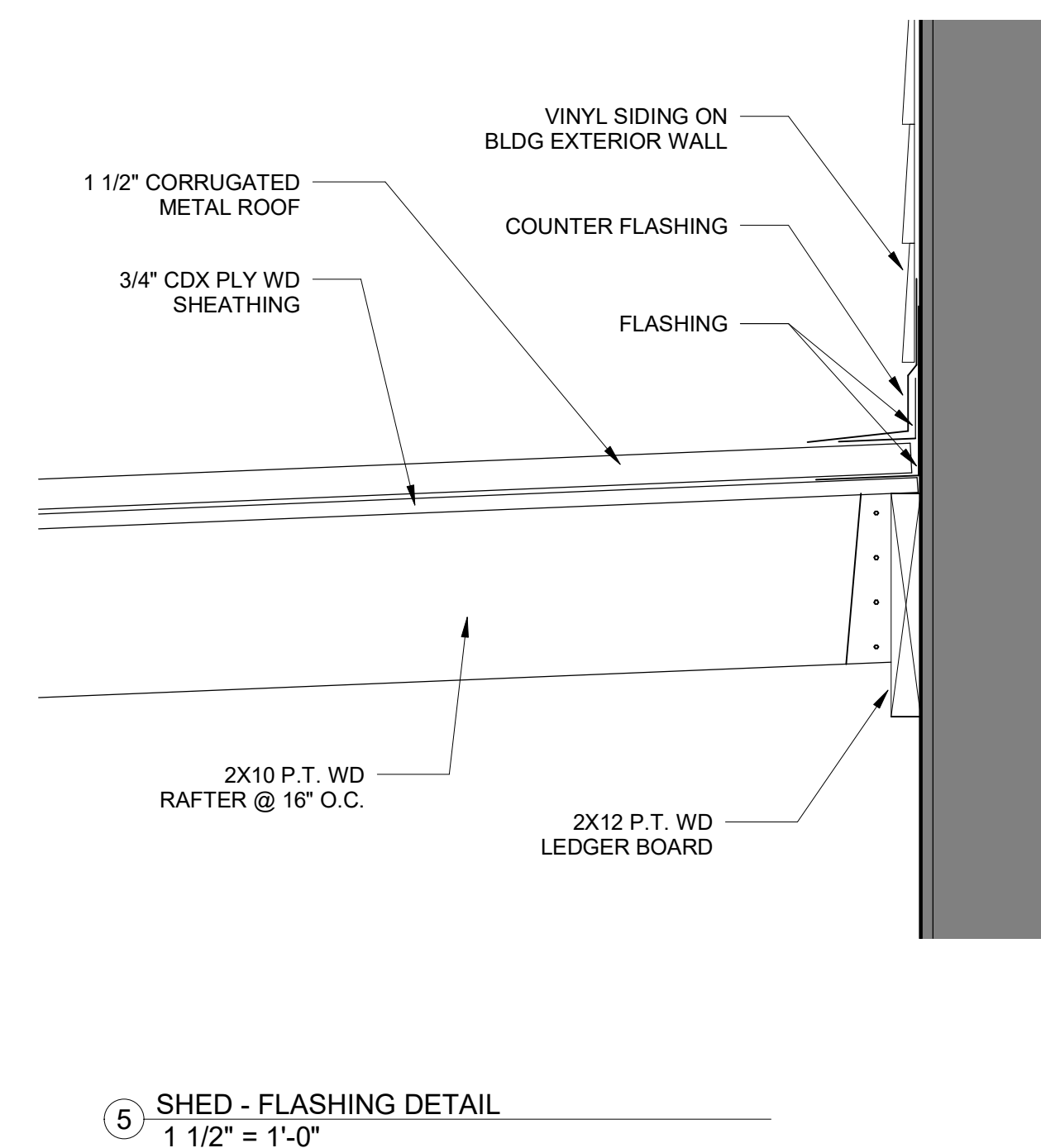
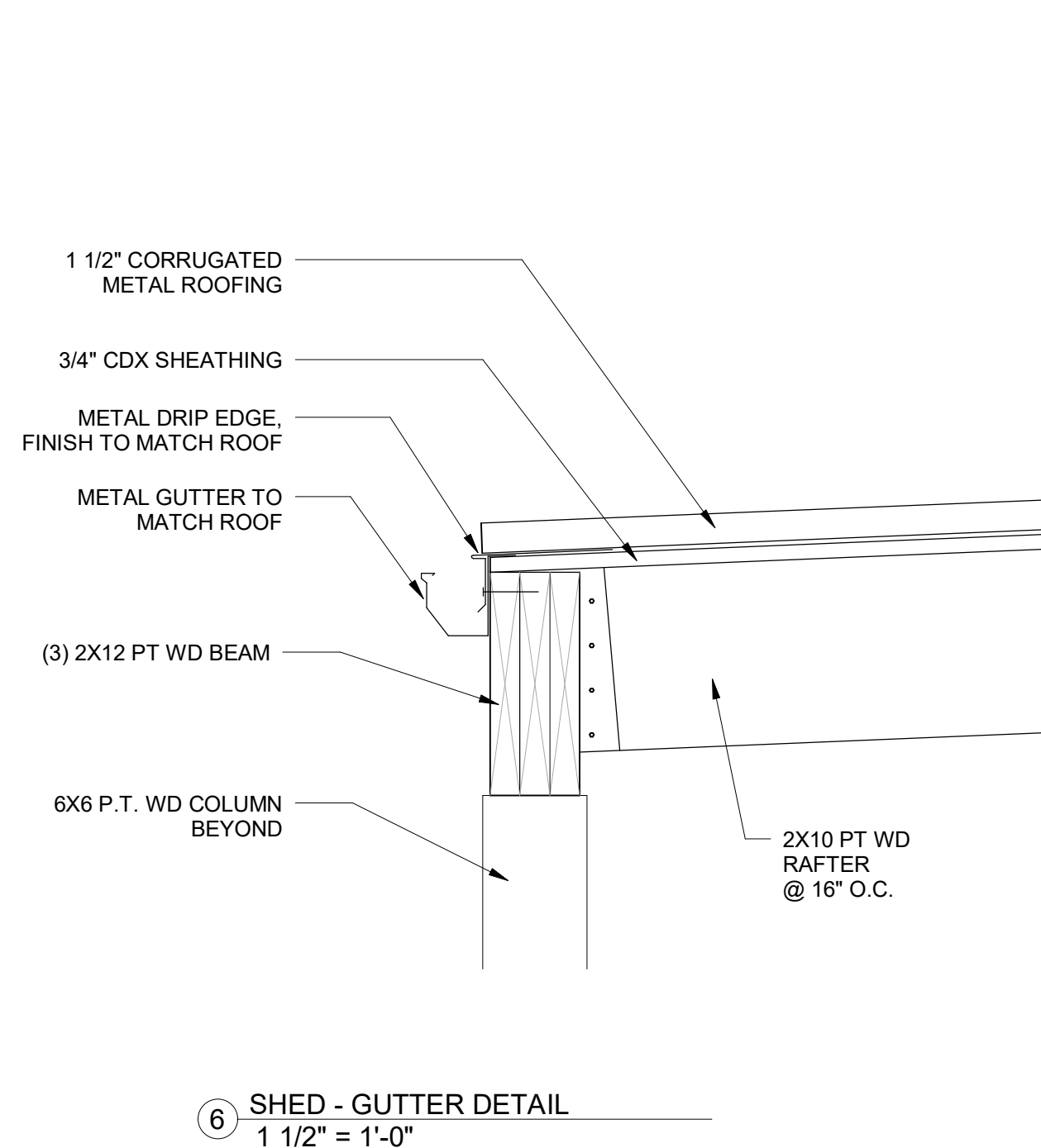
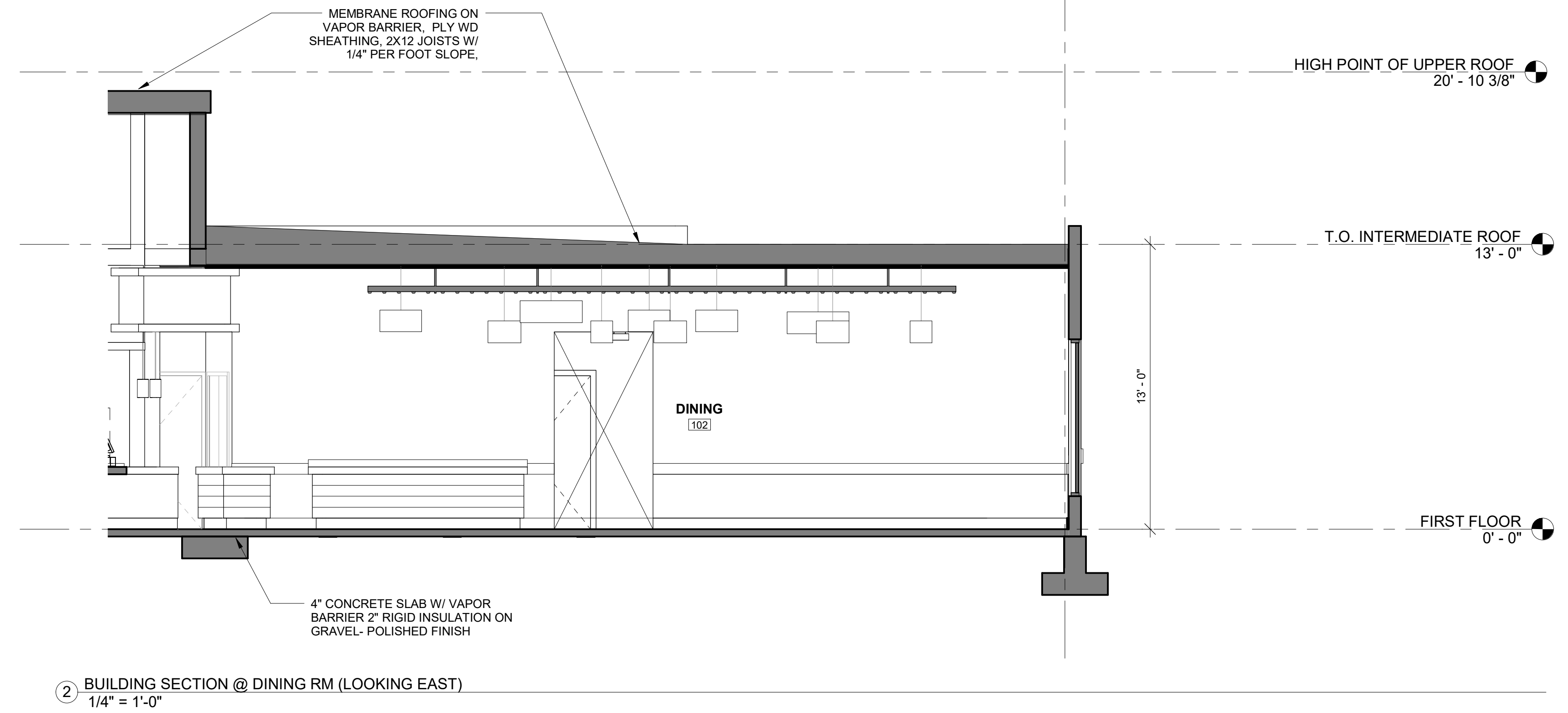
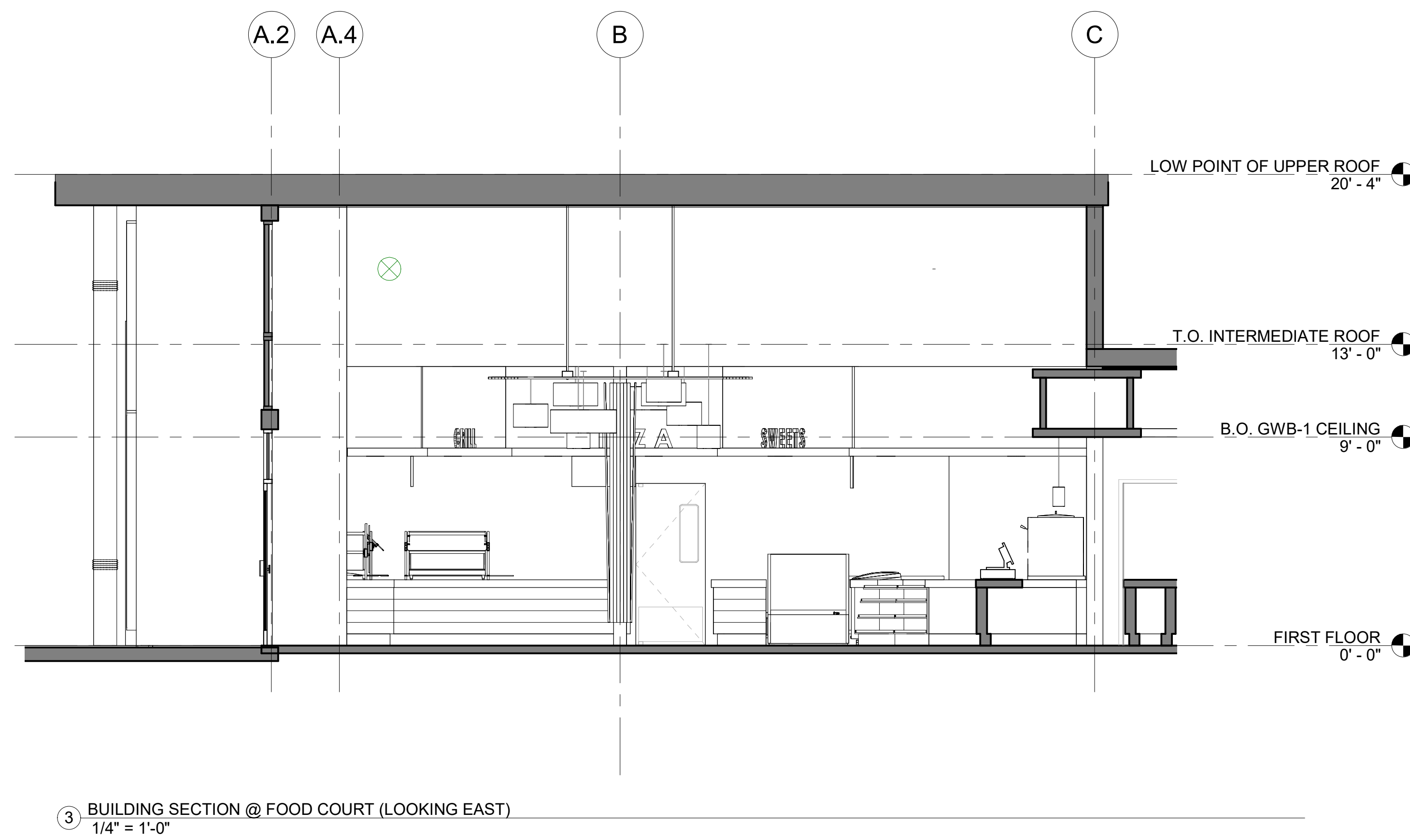
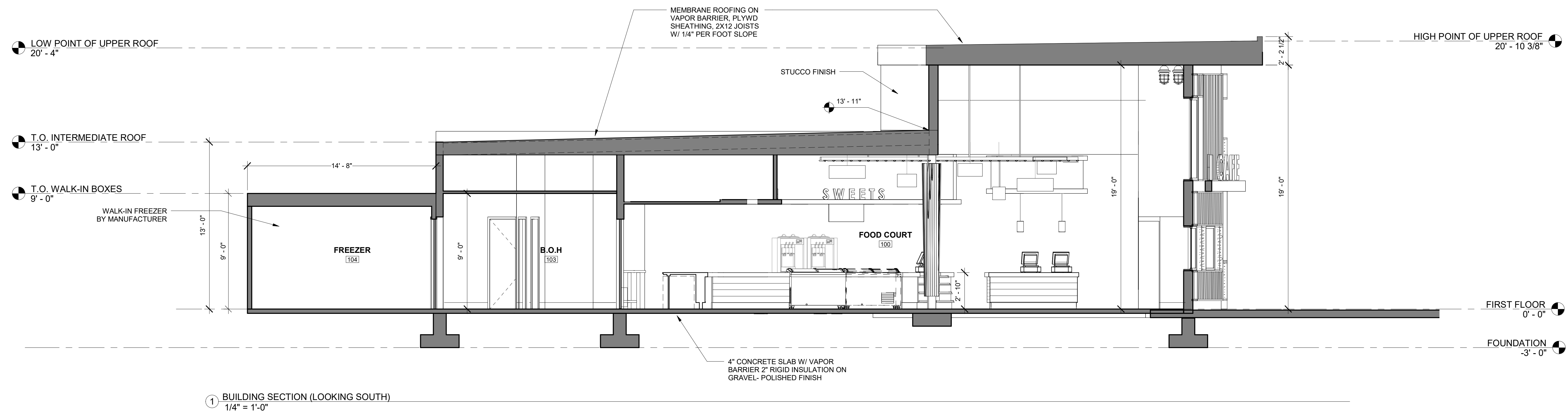


1 EAST ELEVATION  
 1/4" = 1'-0"



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

ISSUED FOR BID  
 2-12-2020



ISSUED FOR BID  
2-12-2020

ARCHITECT  
DTM ARCHITECT  
Dennis T. Mitchell NCARB, AIA  
6060 W. 10th St.  
Arlington, TX 76017  
P: 817.265.2415 F: 817.483.7317  
OfficeReply@DtmArchitect.com

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

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

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

DRAWN AUTHOR  
SCALAS INDICATED

APPROVED BY: AT  
JOB#: 1610-021

TITLE:  
BUILDING SECTIONS  
DWG. NO.  
A202

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

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

MEP ENGINEER:  
**PSP ASSOCIATES**  
 1105 MELLIE DRIVE  
 DOWNINGTOWN, PA 19335

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

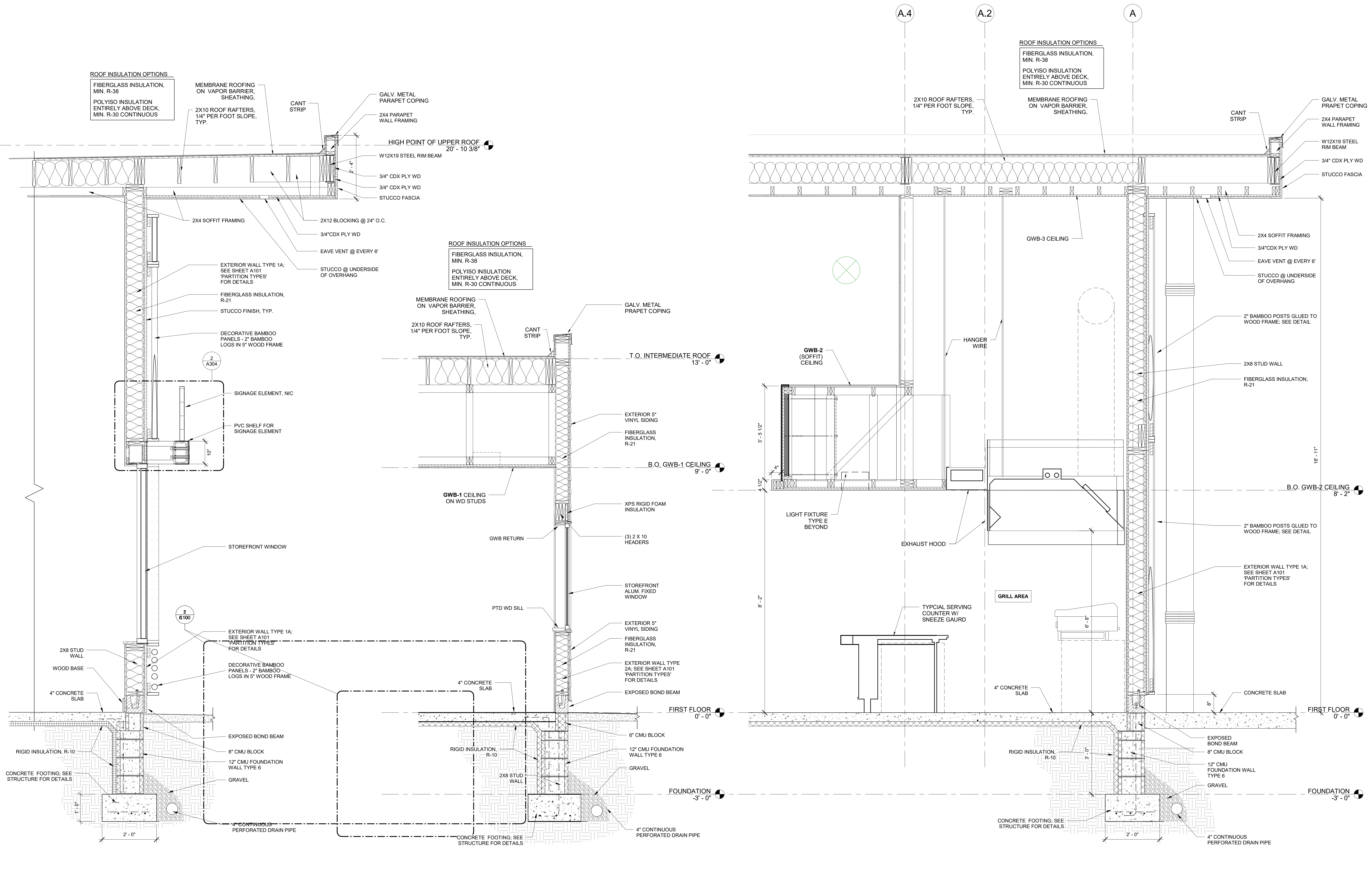
CKS STRUCTURES, INC.  
 280 N. PROVIDENCE RD, SUITE 105  
 MEDIA, PA 19063

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

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

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

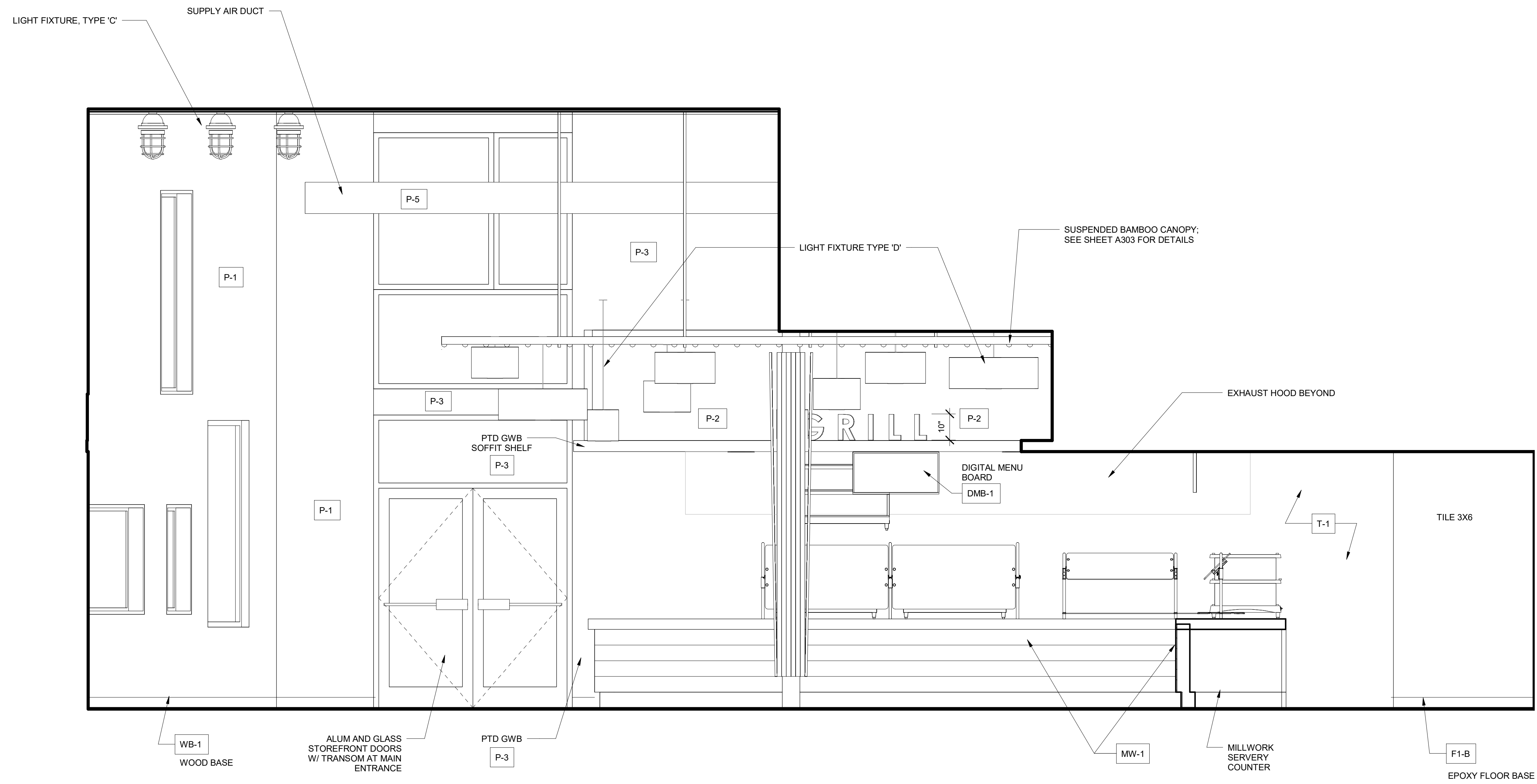
ISSUED FOR BID  
 2-12-2020



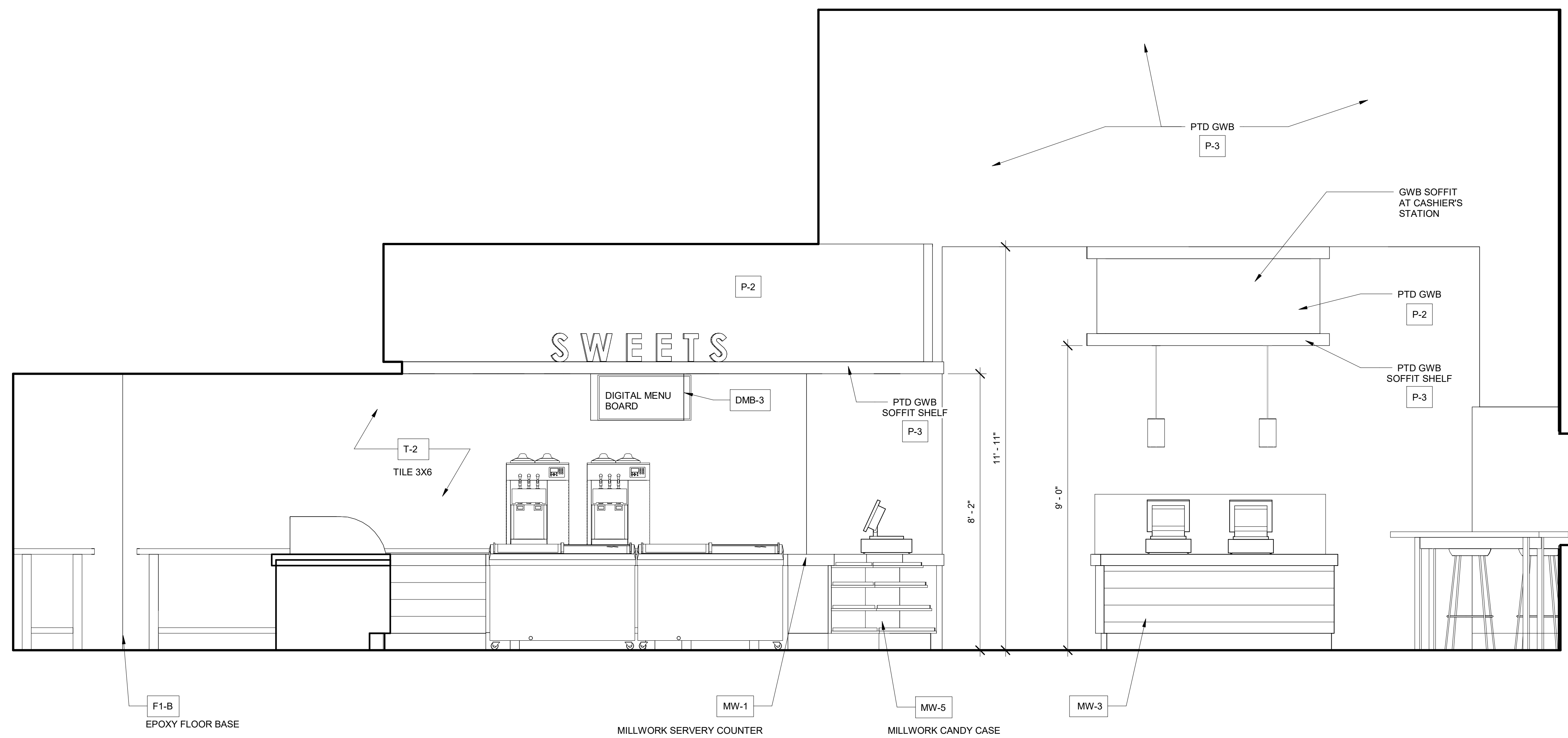
1 WALL SECTION AT BAMBOO (SOUTH FACADE)  
 3/4" = 1'-0"

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

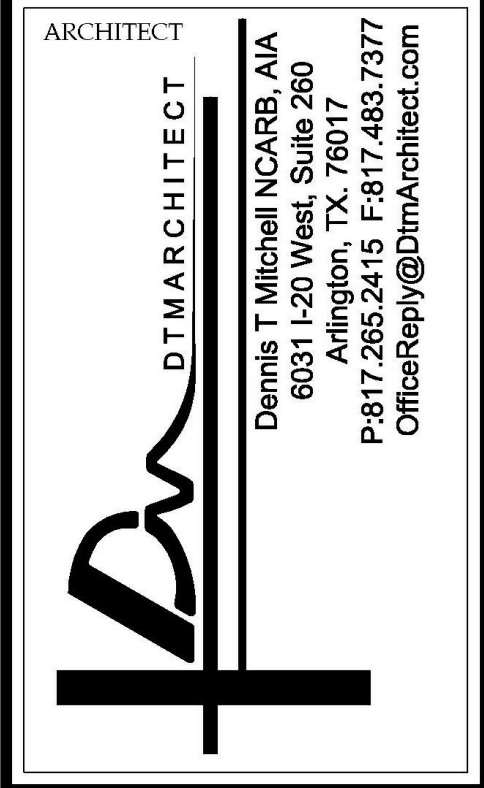
3 SECTION AT KITCHEN GRILL (WEST FACADE)  
 3/4" = 1'-0"



② Elevation 1 - c  
1/2" = 1'-0"



① Elevation 1 - a  
1/2" = 1'-0"



ARCHITECT  
 DTW ARCHITECT  
 Dennis T. Mitchell NCARB, AIA  
 6000  
 Arlington, TX 76017  
 P: 817.265.2415 F: 817.483.7377  
 OfficeReply@DtmArchitect.com

ARCHITECT'S SEAL:

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

MEP ENGINEER:  
**PSP ASSOCIATES**  
 1105 MELLIEN DRIVE  
 DOWNINGTOWN, PA 19335

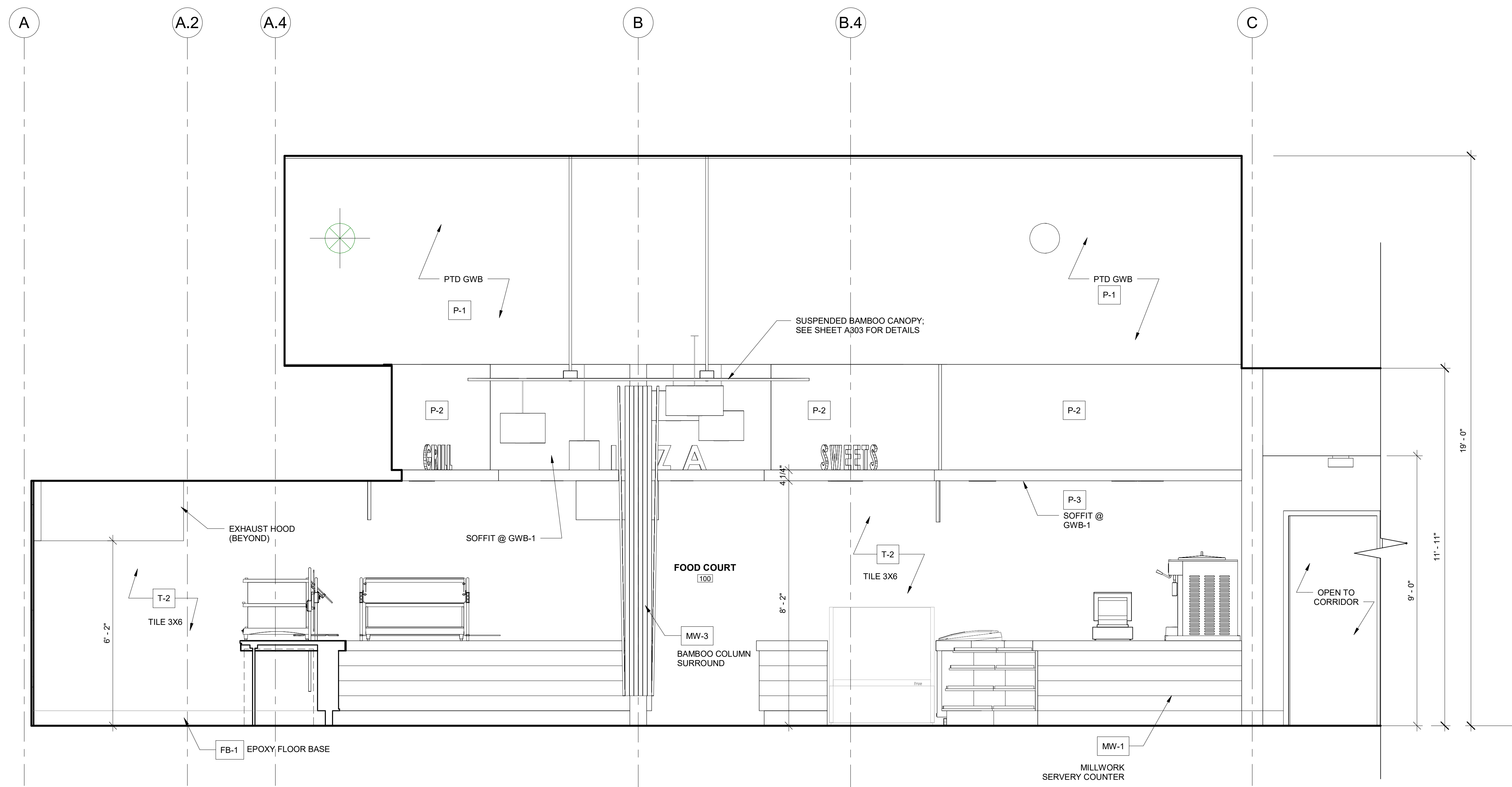
MULHERN CONSULTING  
 ENGINEERS  
 321 SOUTH YORK ROAD  
 HATBORO, PA 19040

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

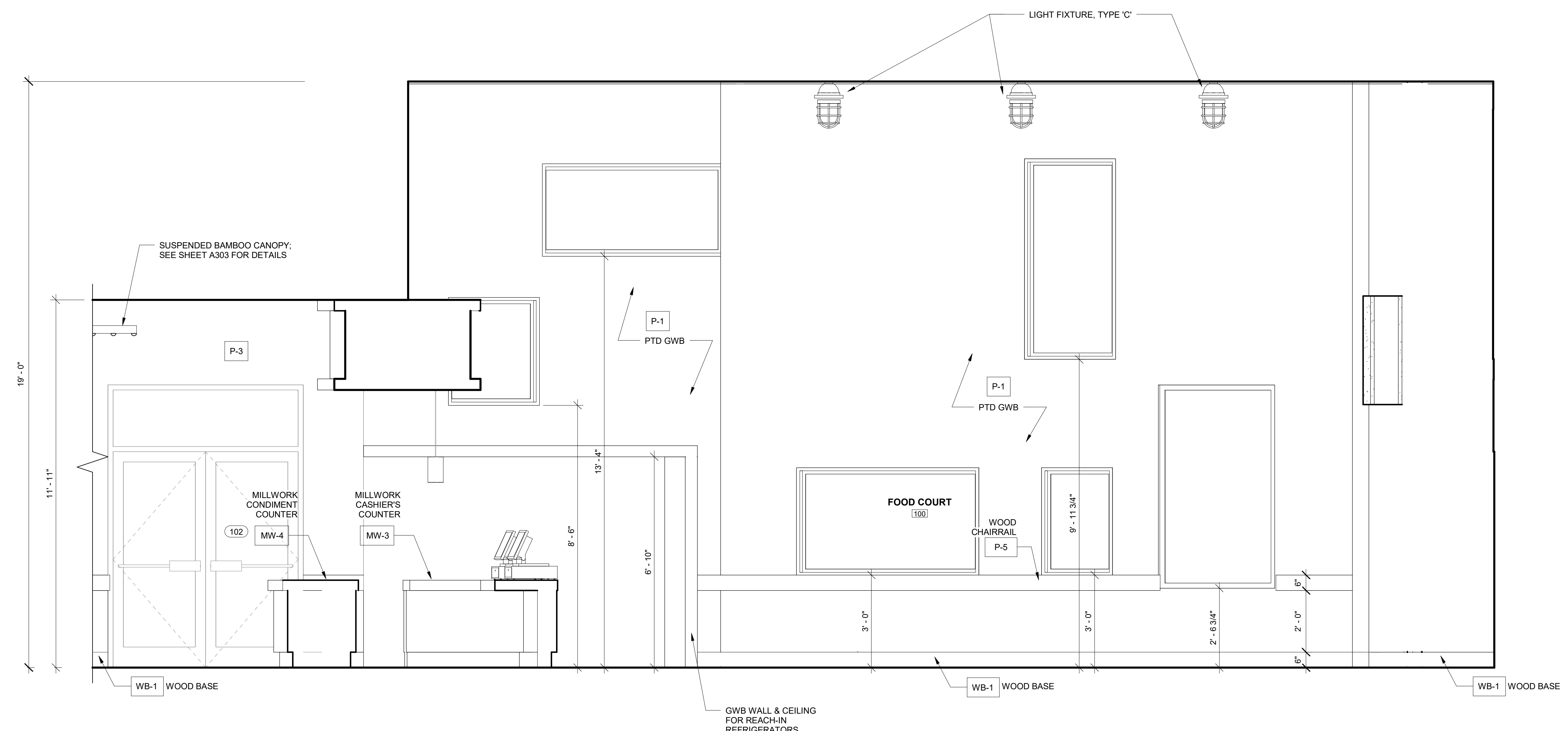
**CAPE MAY COUNTY ZOO SAFARI  
 CAFE 2 NEW RETAIL FOOD BUILDING**  
 707 ROUTE 9 NORTH, CAPE MAY COURT  
 HOUSE, NJ 08210

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

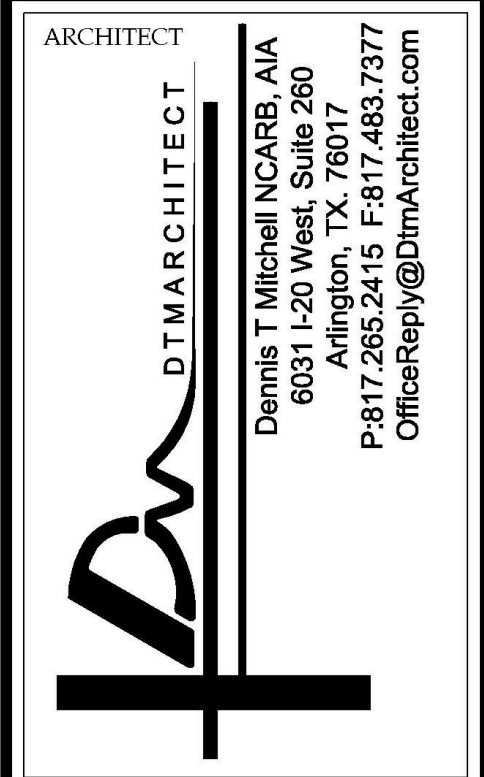
ISSUED FOR BID  
 2-12-2020



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



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



ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

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

MEP ENGINEER:  
**PSP ASSOCIATES**  
1105 MELLIE DRIVE  
DOWNTOWNTOWN, PA 19335

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

TITLE:  
**CAPE MAY COUNTY ZOO SAFARI  
CAFE 2 NEW RETAIL FOOD BUILDING**  
INTERIOR ELEVATIONS - FOOD COURT

DWG. NO. **A206**  
DRAWN (Author)  
SCALE 1/2" = 1'-0"  
APPROVED BY: AT  
JOB#: 1610-021

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

ISSUED FOR BID  
2-12-2020

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

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

MEP ENGINEER:  
**PSP ASSOCIATES**  
 1105 MELLIE DRIVE  
 DOWNINGTOWN, PA 19335

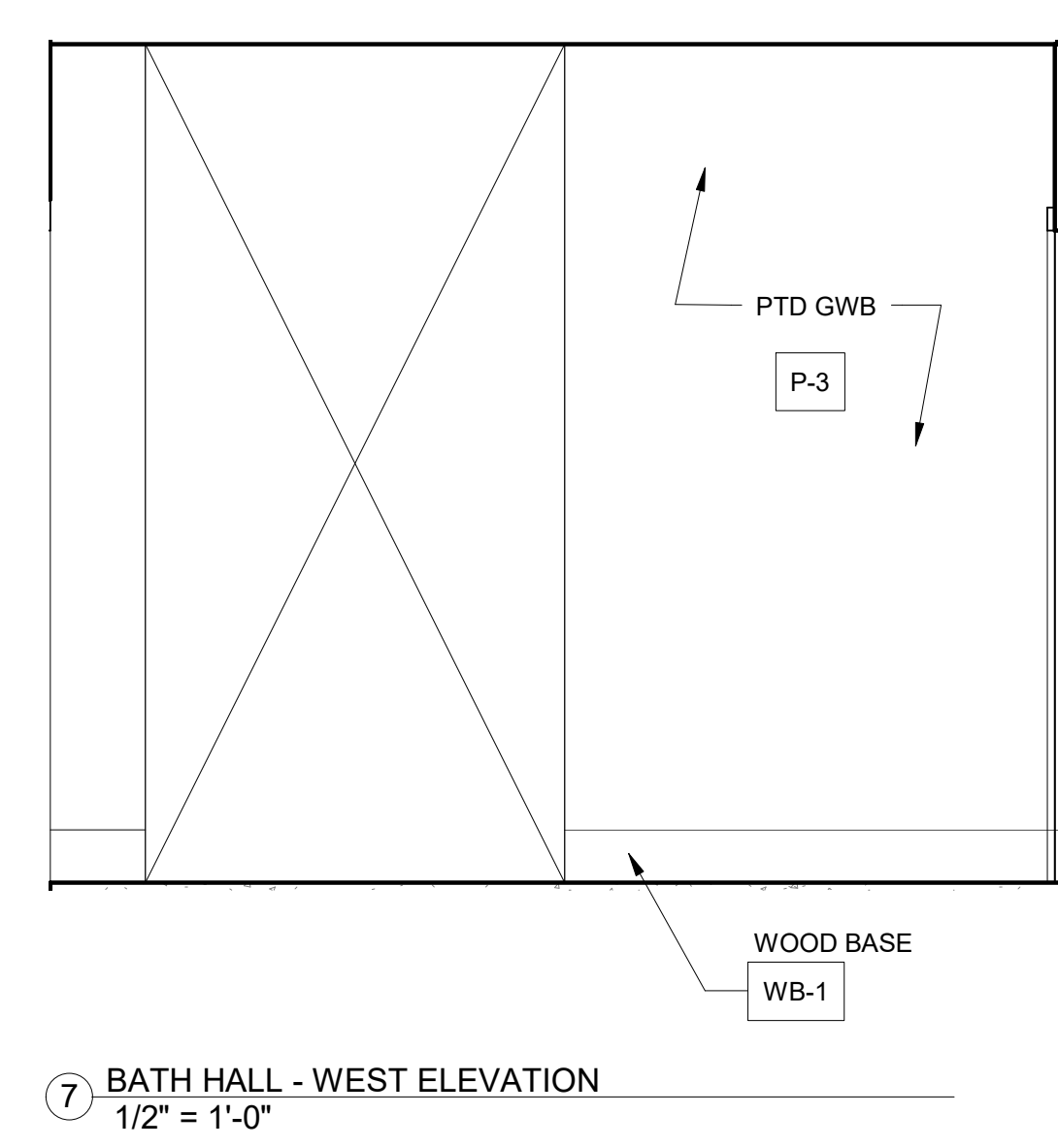
MULHERN CONSULTING ENGINEERS  
 321 SOUTH YORK ROAD  
 HATBORO, PA 19040

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

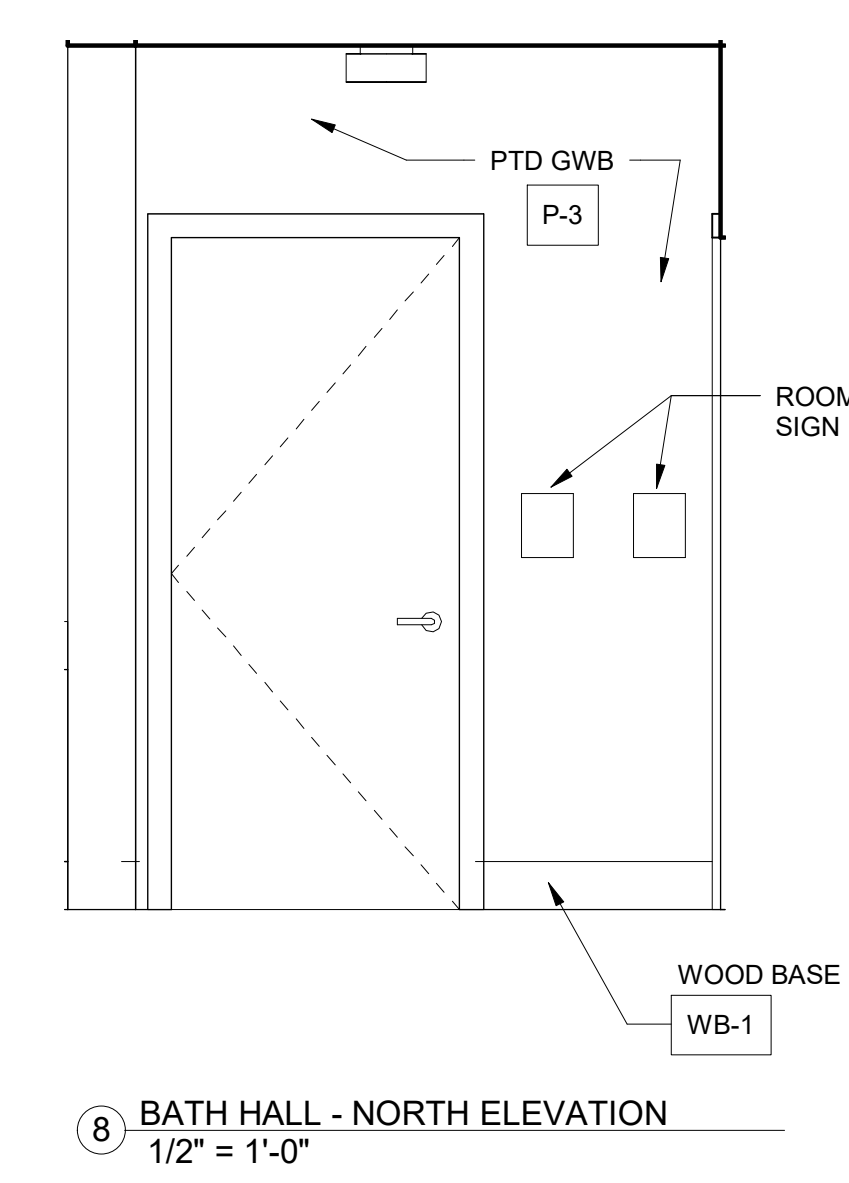
**CAPE MAY COUNTY ZOO SAFARI  
 CAFE 2 NEW RETAIL FOOD BUILDING**  
 707 ROUTE 9 NORTH, CAPE MAY COURT  
 HOUSE, NJ 08210

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

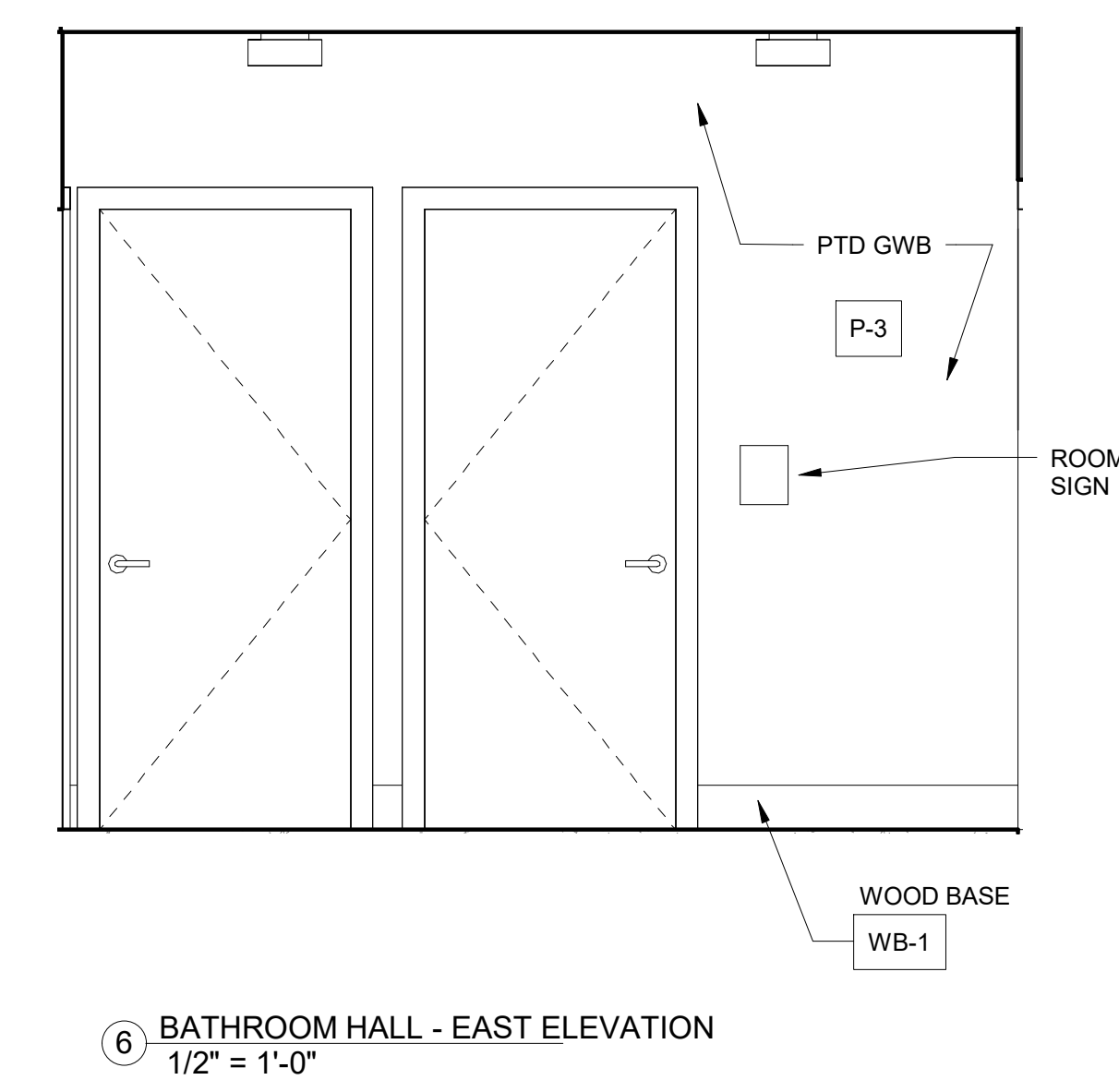
ISSUED FOR BID  
 2-12-2020



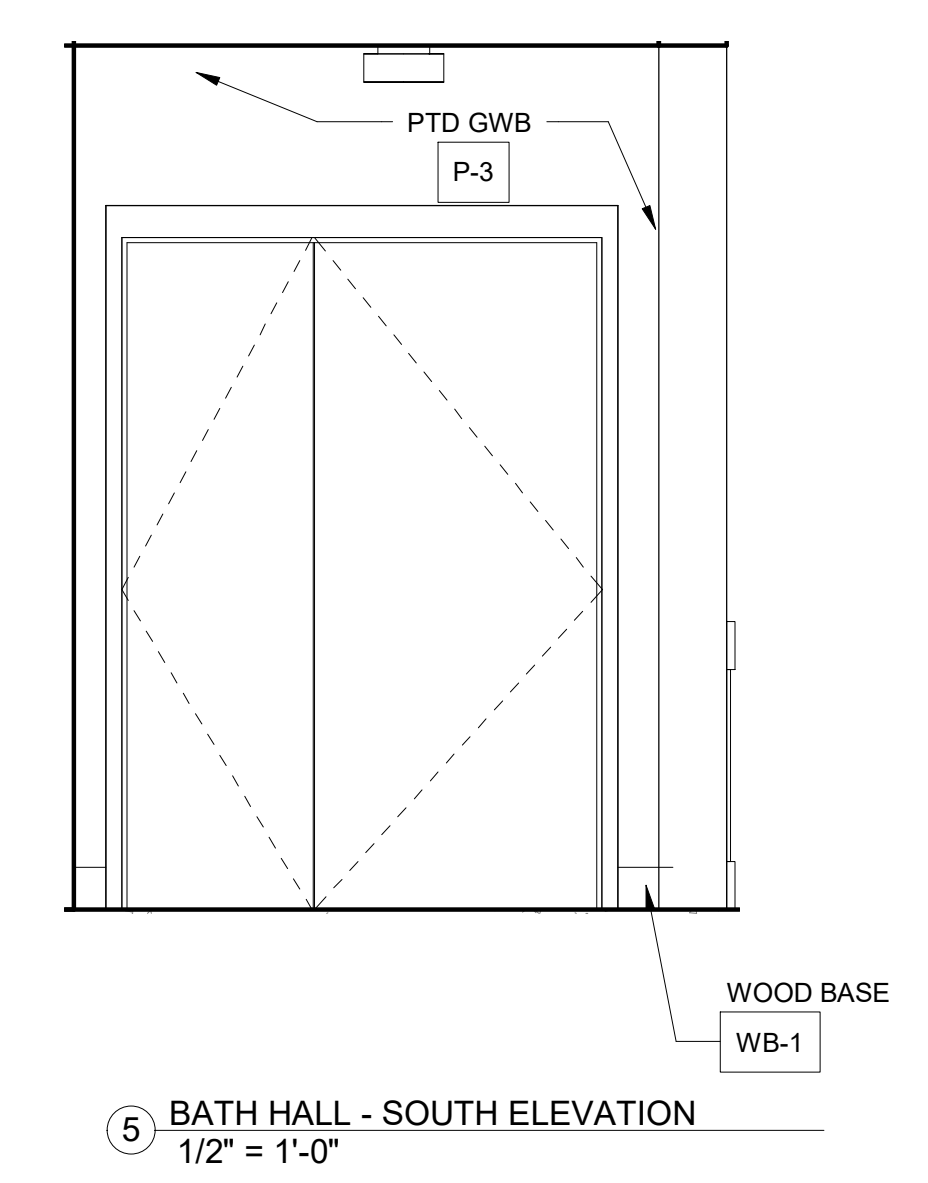
7 BATH HALL - WEST ELEVATION  
 1/2" = 1'-0"



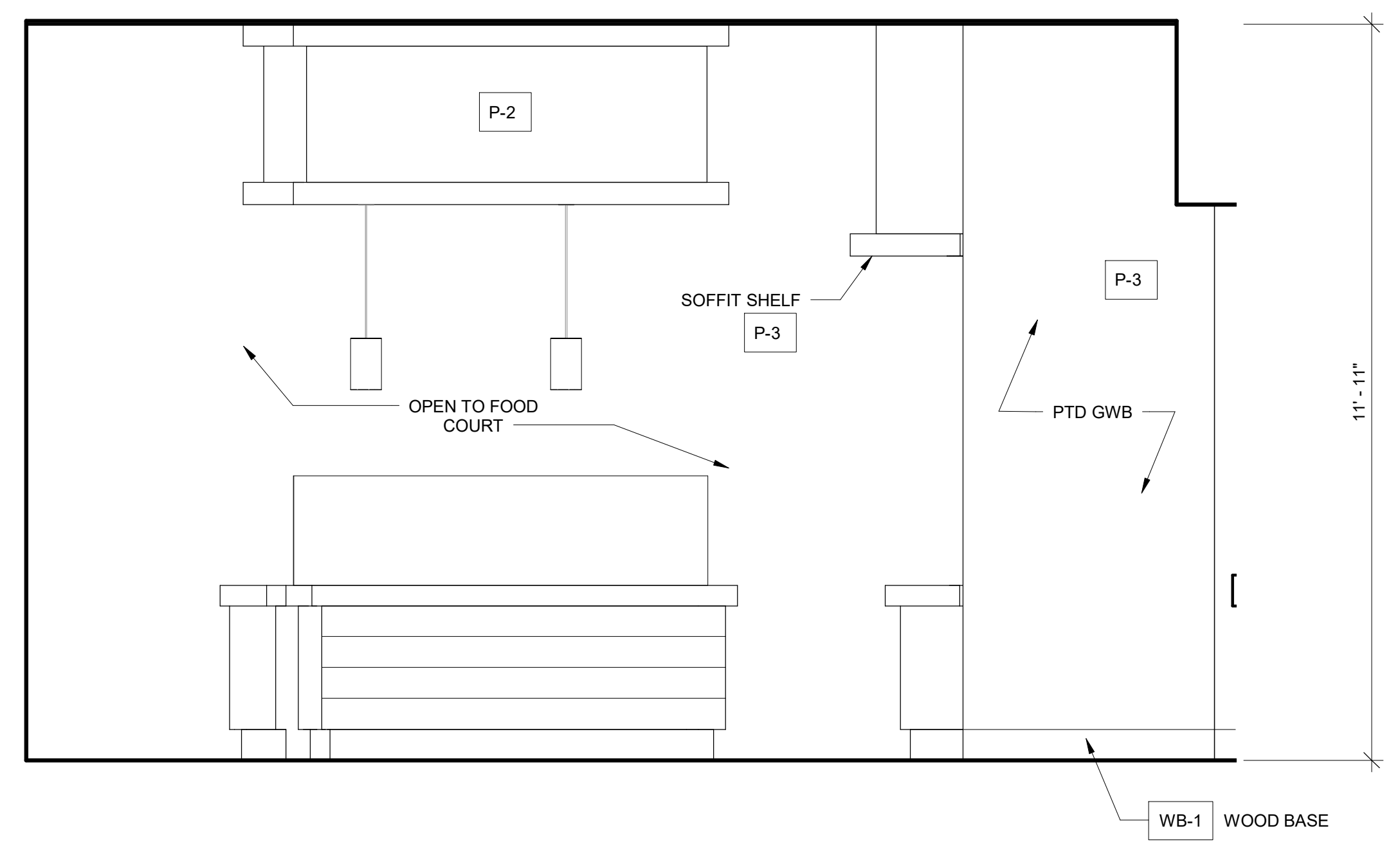
8 BATH HALL - NORTH ELEVATION  
 1/2" = 1'-0"



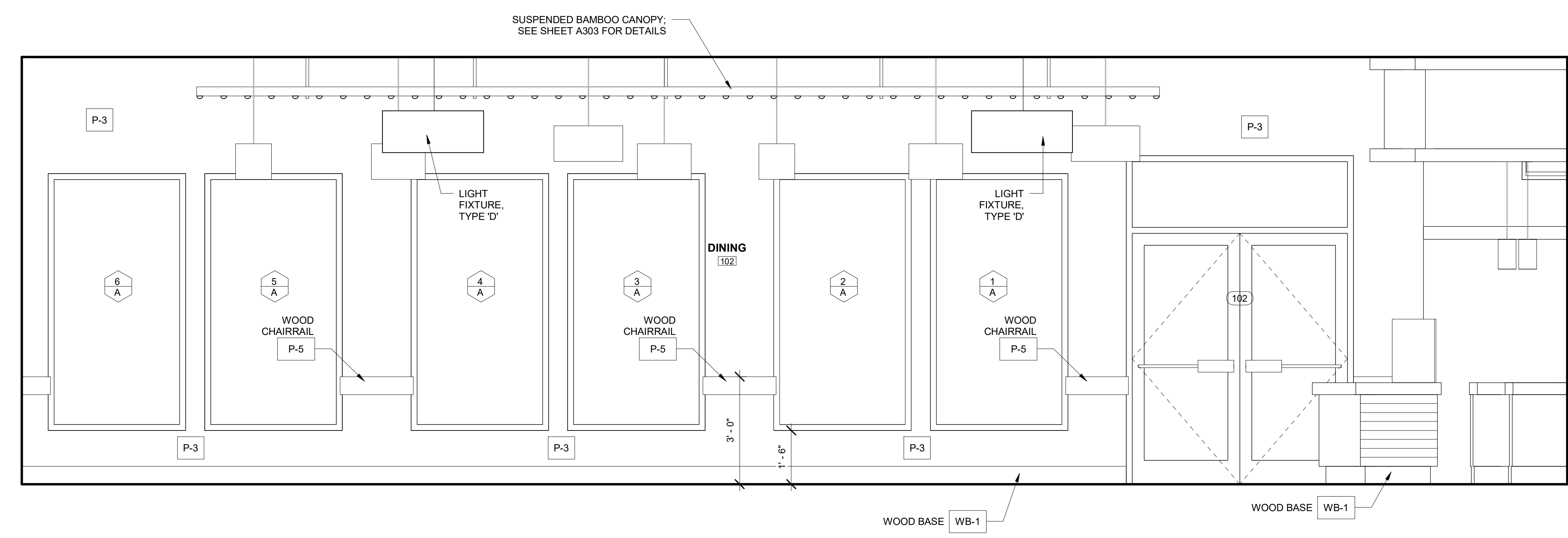
6 BATHROOM HALL - EAST ELEVATION  
 1/2" = 1'-0"



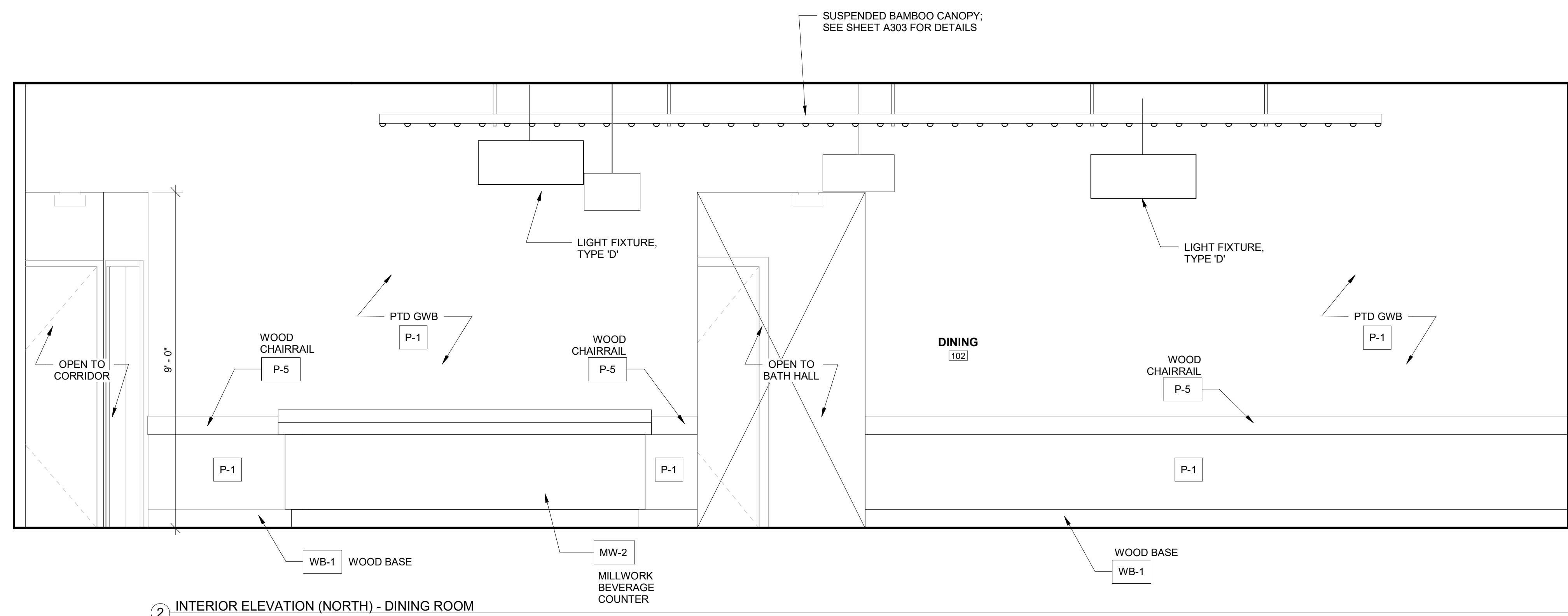
5 BATH HALL - SOUTH ELEVATION  
 1/2" = 1'-0"



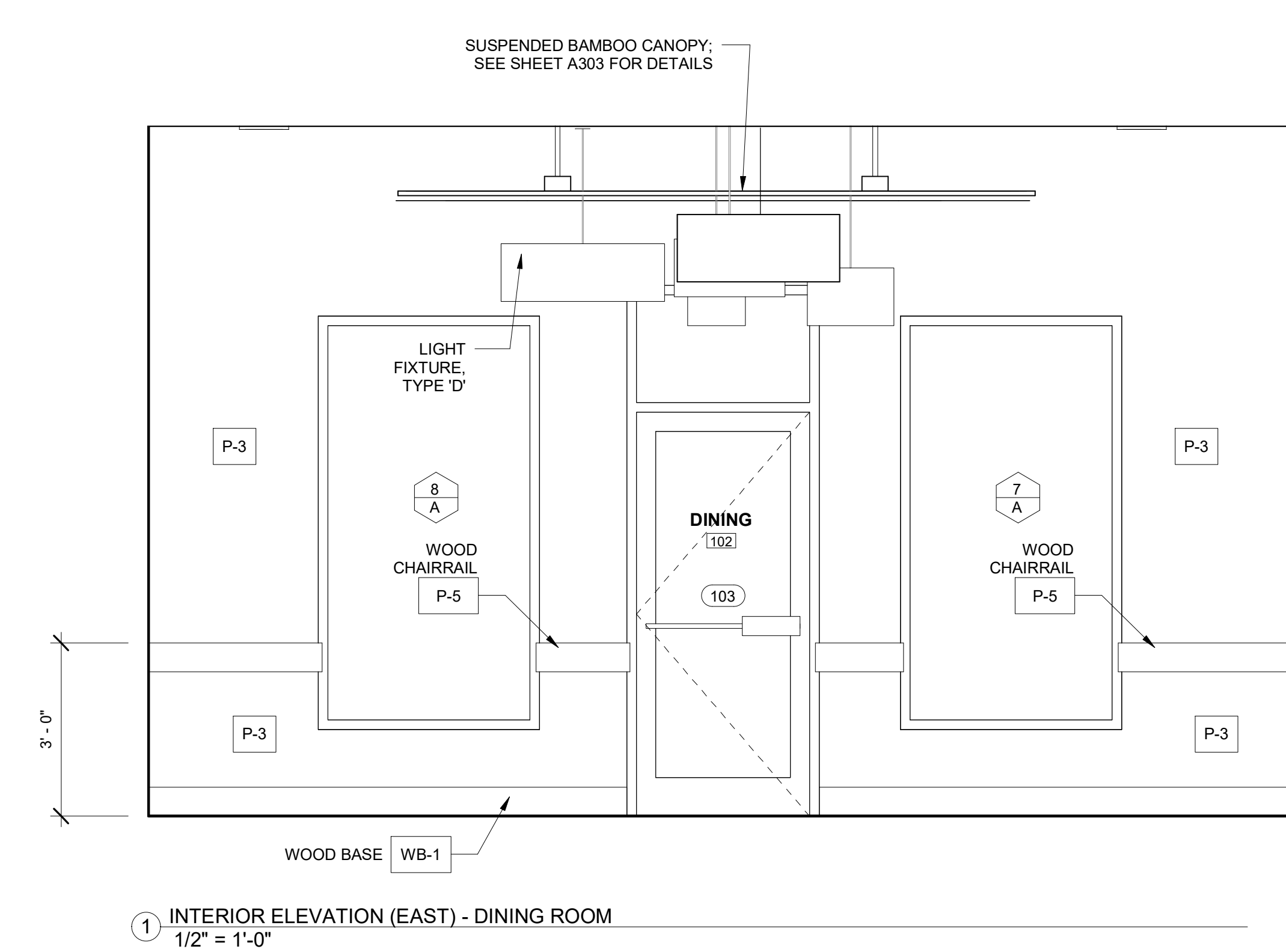
4 INTERIOR ELEVATION (WEST) - DINING ROOM/CORRIDOR  
 1/2" = 1'-0"



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



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



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

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

DESIGNER:  
**T+ASSOCIATES INC.**  
 525 S. 4TH ST, STE 5912  
 PHILADELPHIA, PA 19147  
 T: 215.629.6374

MEP ENGINEER:  
**PSP ASSOCIATES**  
 1105 MELLIE DRIVE  
 DOWNINGTOWN, PA 19335

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

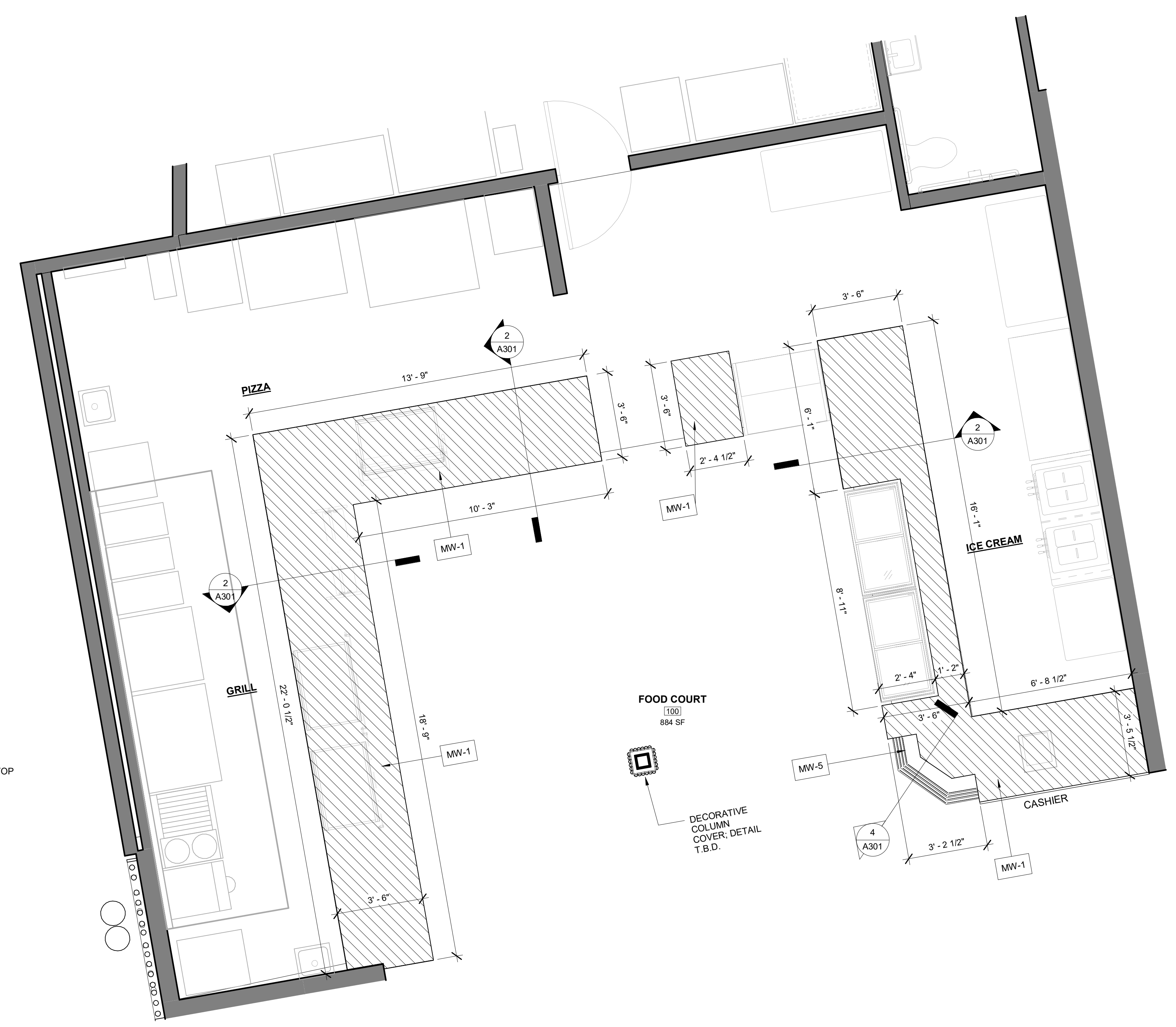
CKS STRUCTURES, INC.  
 280 N. PROVIDENCE RD, SUITE 105  
 MEDIA, PA 19063

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

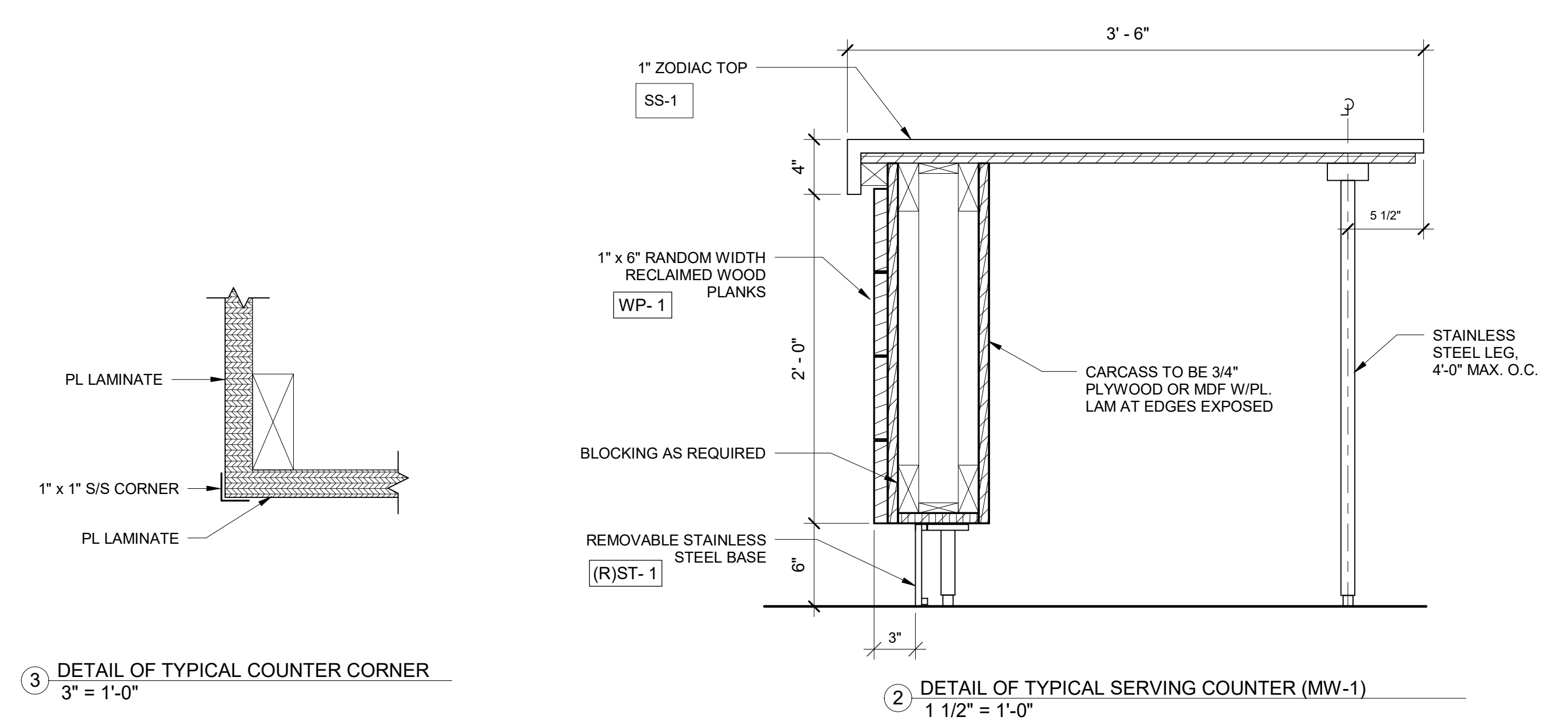
TITLE:  
**MILLWORK DETAILS**  
 DWG. NO.  
**A301**

ISSUED FOR BID  
 2-12-2020

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

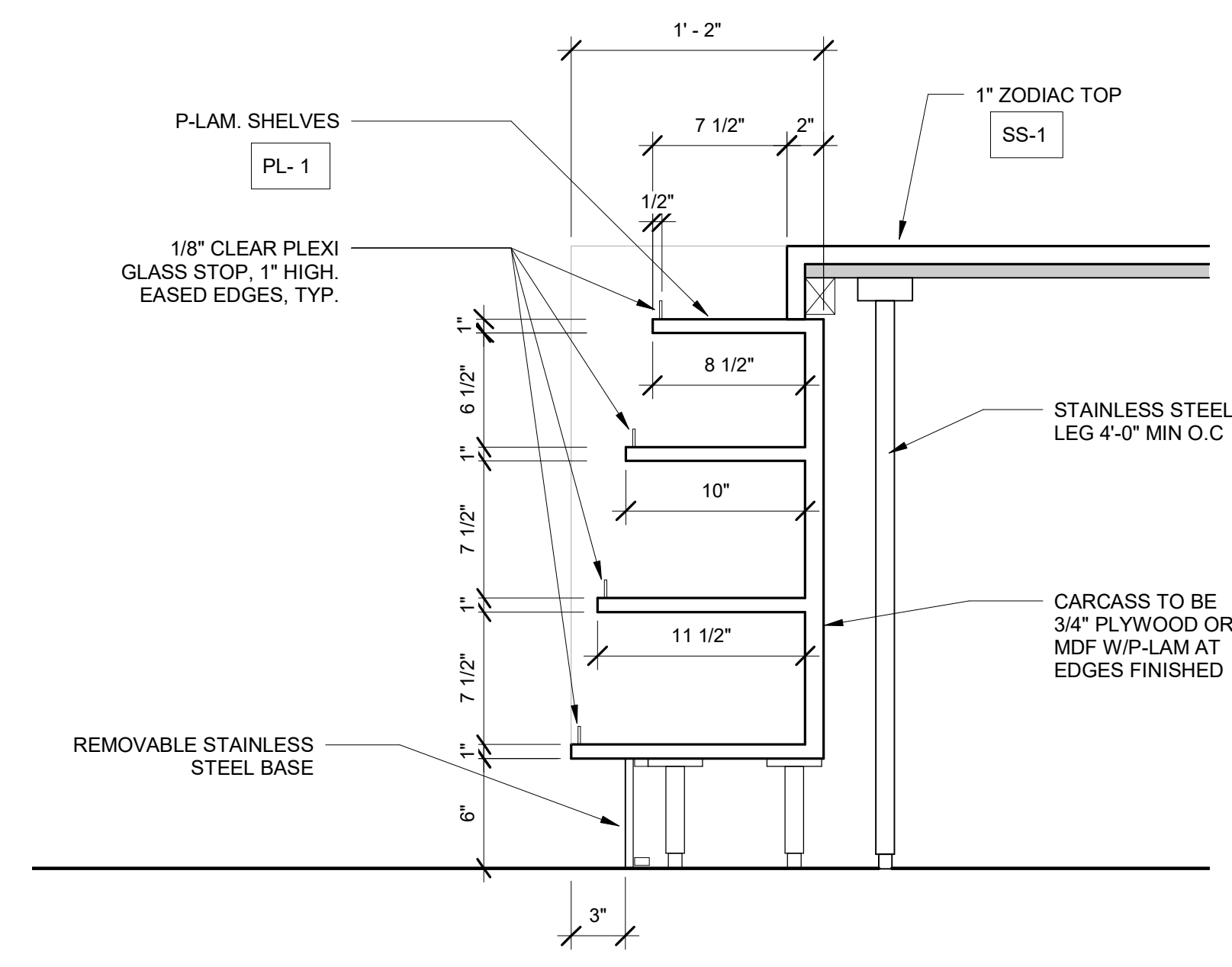


1 ENLARGED PLAN - MILLWORK FOR SERVERY  
 3/8" = 1'-0"

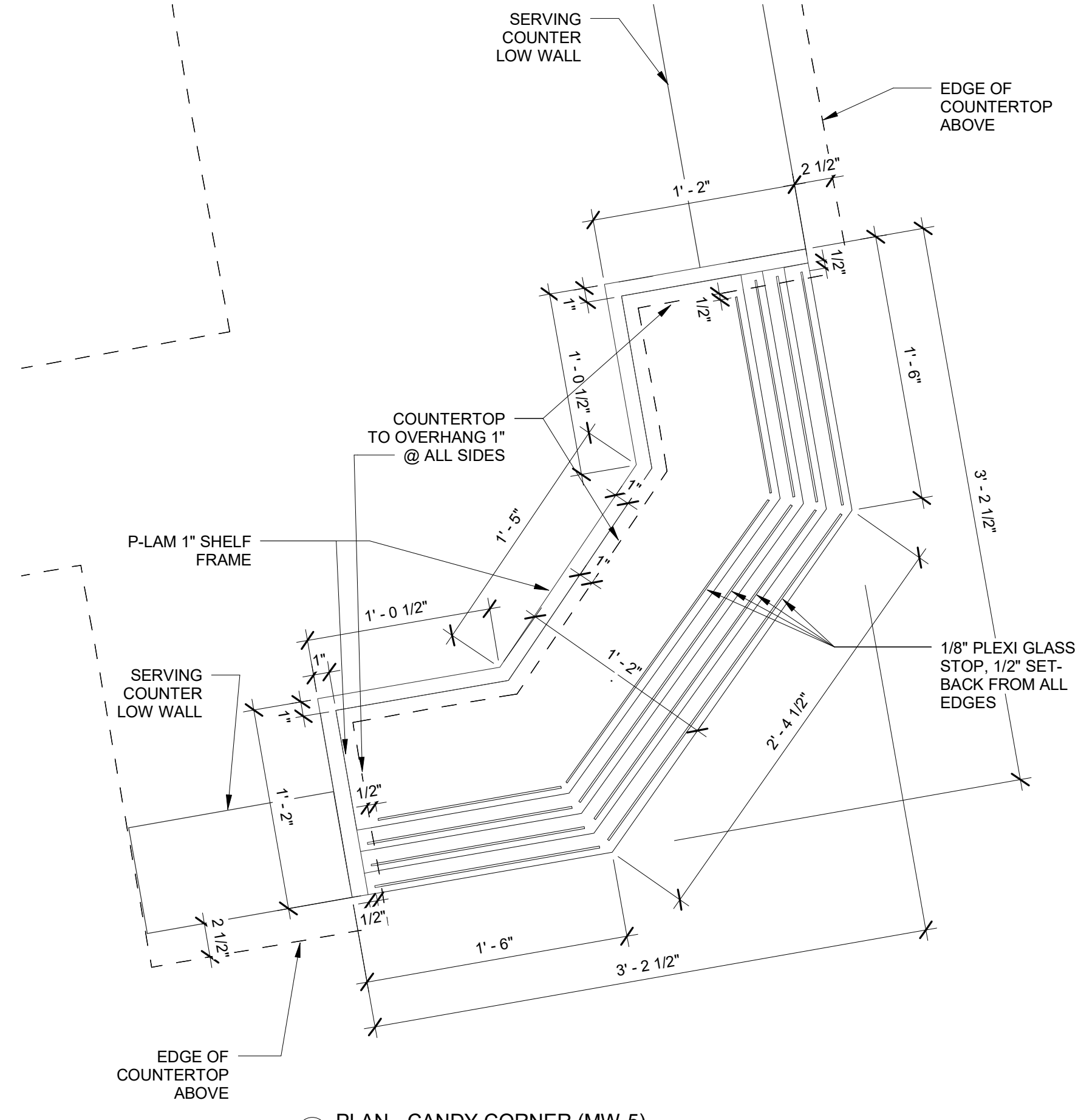


3 DETAIL OF TYPICAL COUNTER CORNER  
 3" = 1'-0"

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



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



5 PLAN - CANDY CORNER (MW-5)

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'X6' RANDOM LENGTH		
SS-1	SOLID SURFACE	MANUF: DUPONT STYLE: ZODIAQ	CLOUD WHITE	

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

DESIGNER:  
**T+ASSOCIATES INC.**  
 525 S. 4TH ST., STE 5911  
 PHILADELPHIA, PA 19147  
 T: 215.629.6374

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

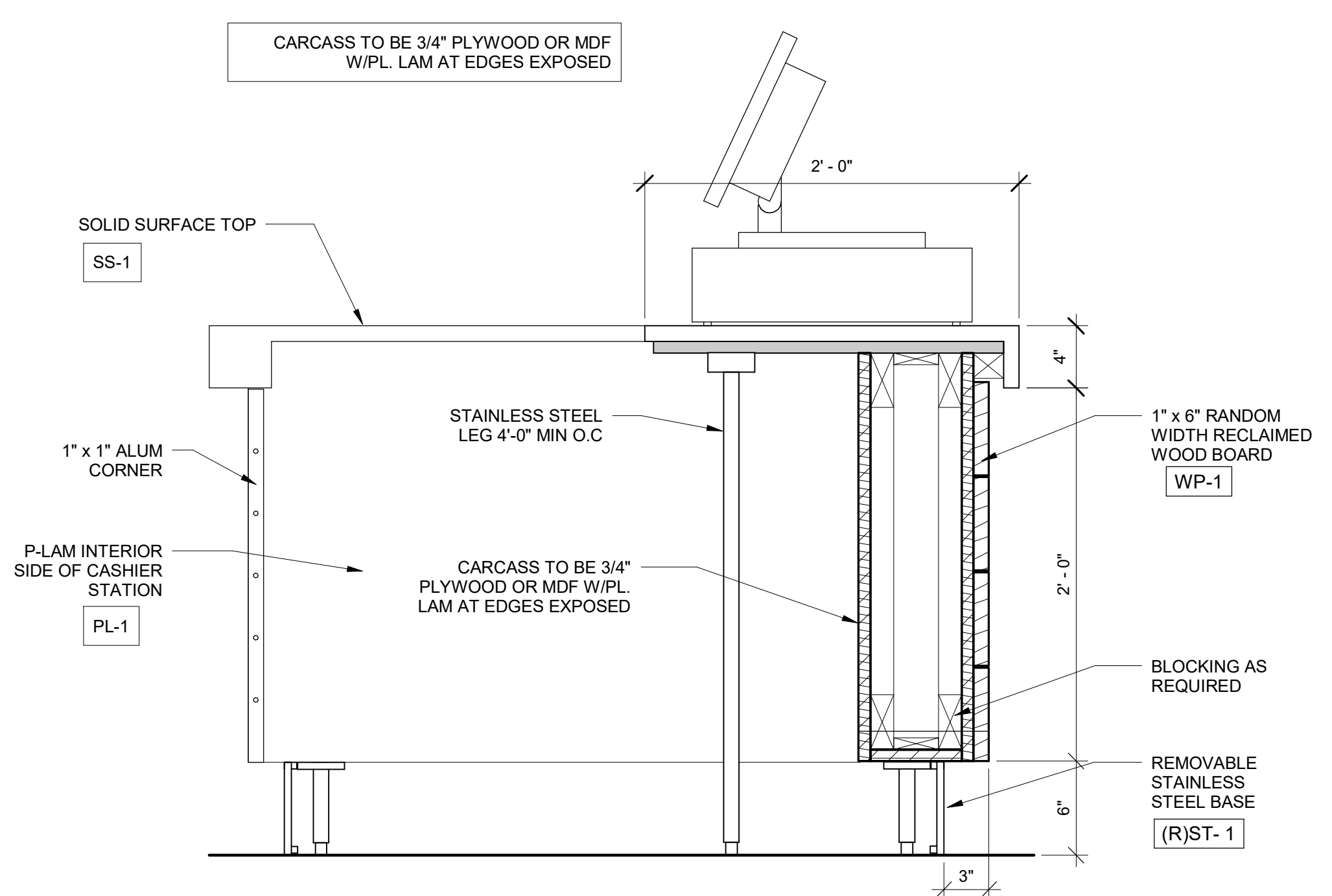
STRUCTURAL ENGINEER:  
**MULHERN CONSULTING ENGINEERS**  
 321 SOUTH YORK ROAD  
 HATBORO, PA 19040

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

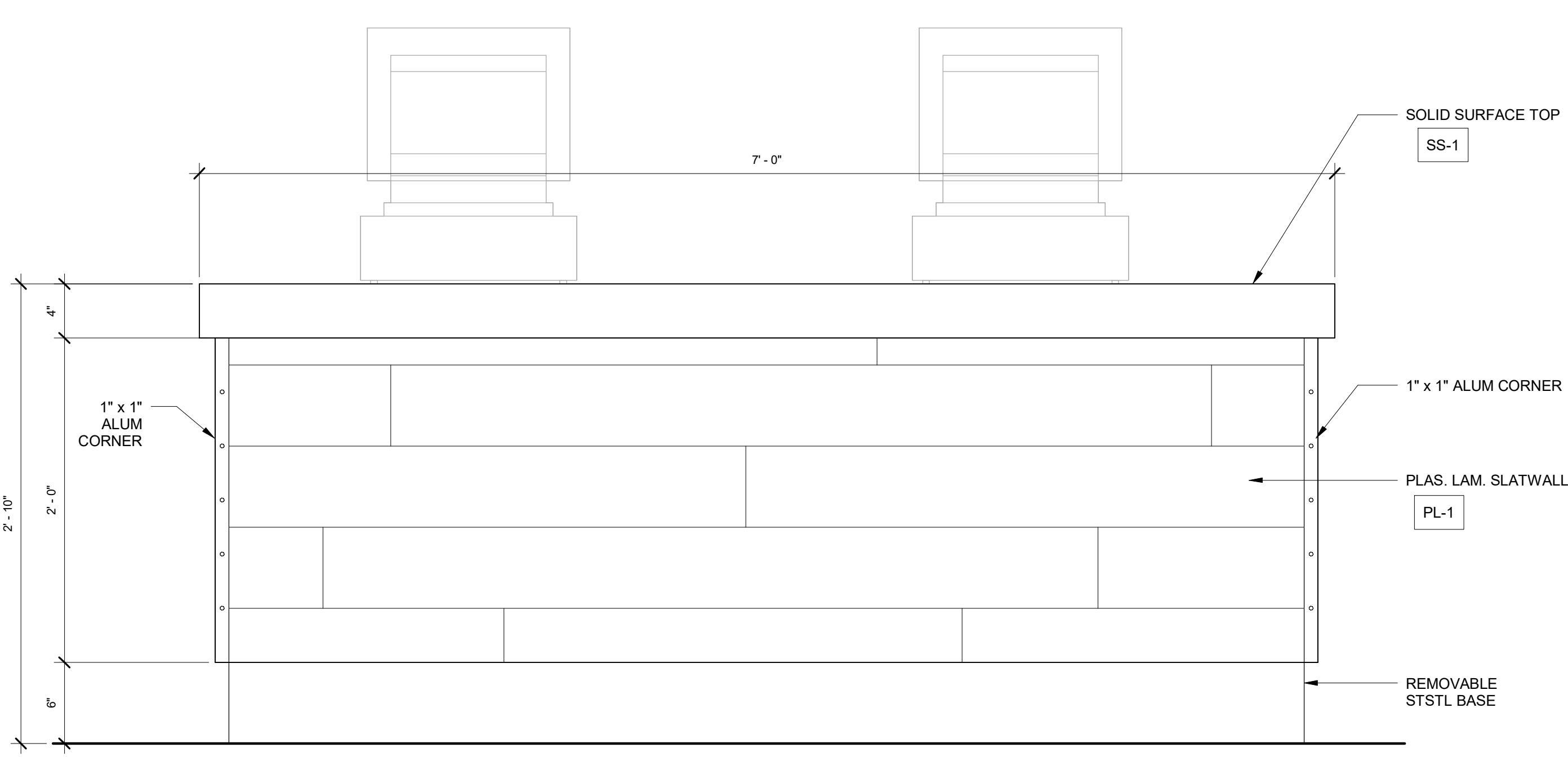
**CAPE MAY COUNTY ZOO SAFARI  
 CAFE 2 NEW RETAIL FOOD BUILDING**  
 707 ROUTE 9 NORTH, CAPE MAY COURT  
 HOUSE, NJ 08210

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

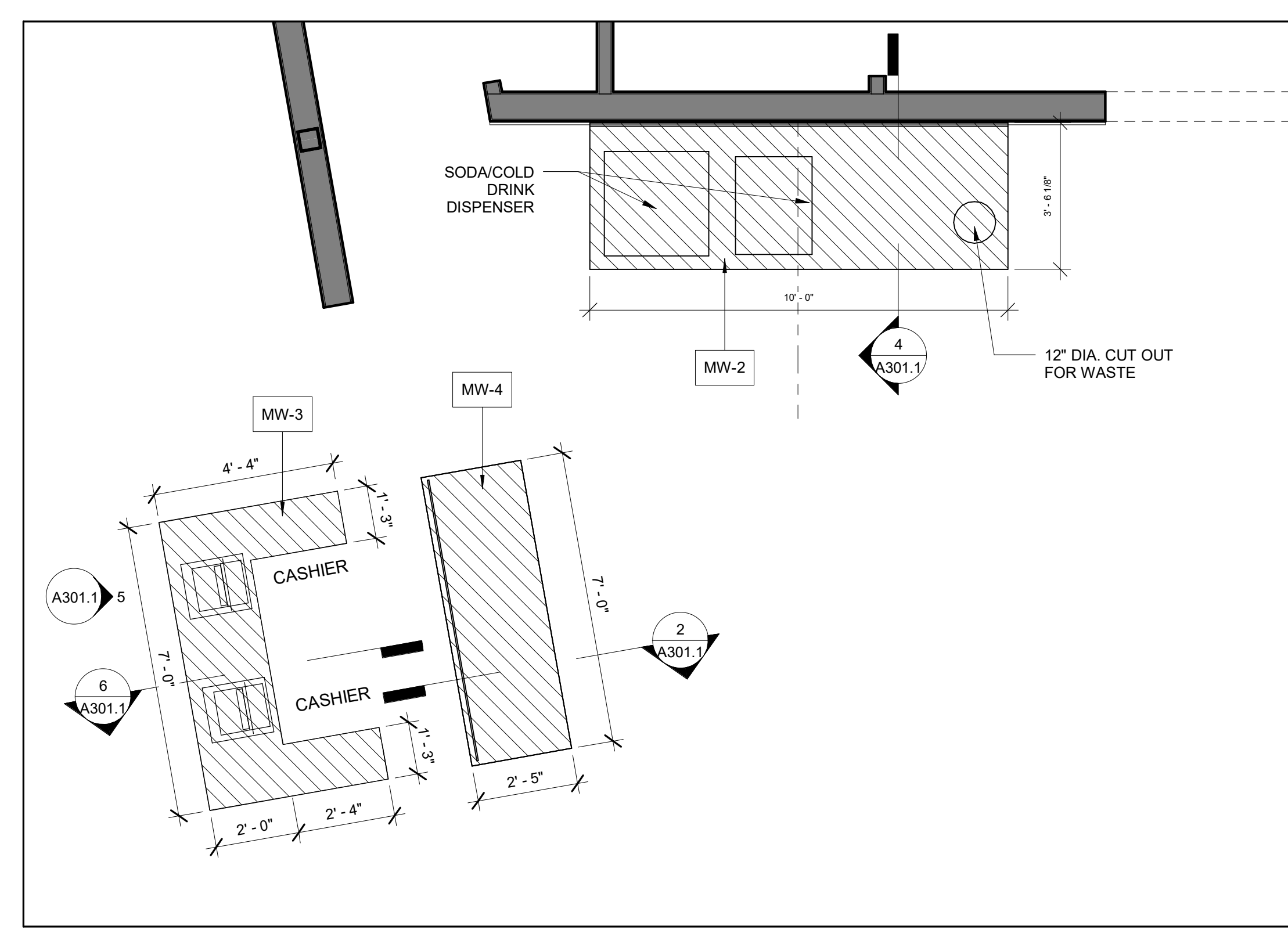
ISSUED FOR BID  
 2-12-2020



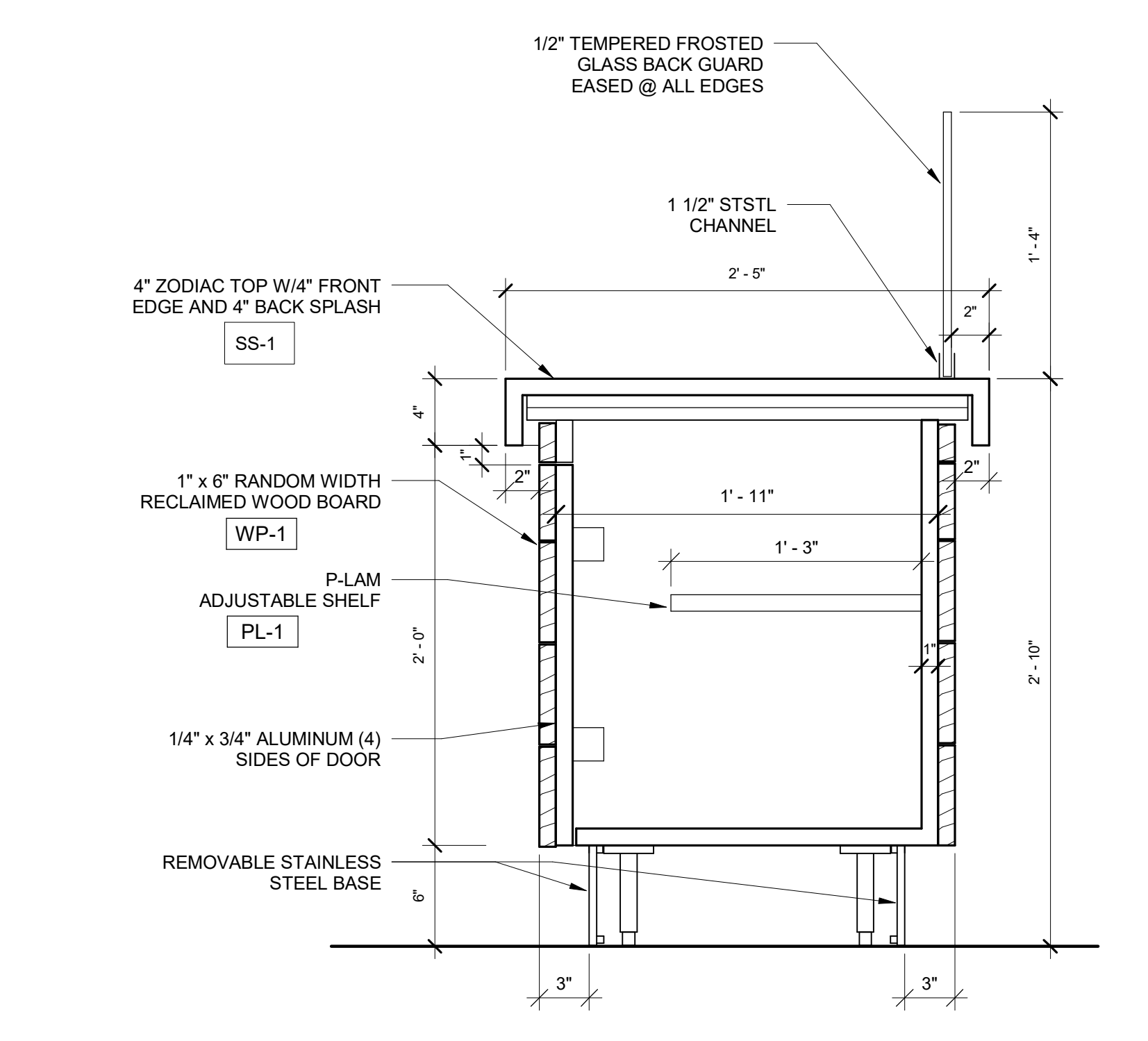
6 DETAIL AT CASH WRAP (MW-3)  
 1 1/2" = 1'-0"



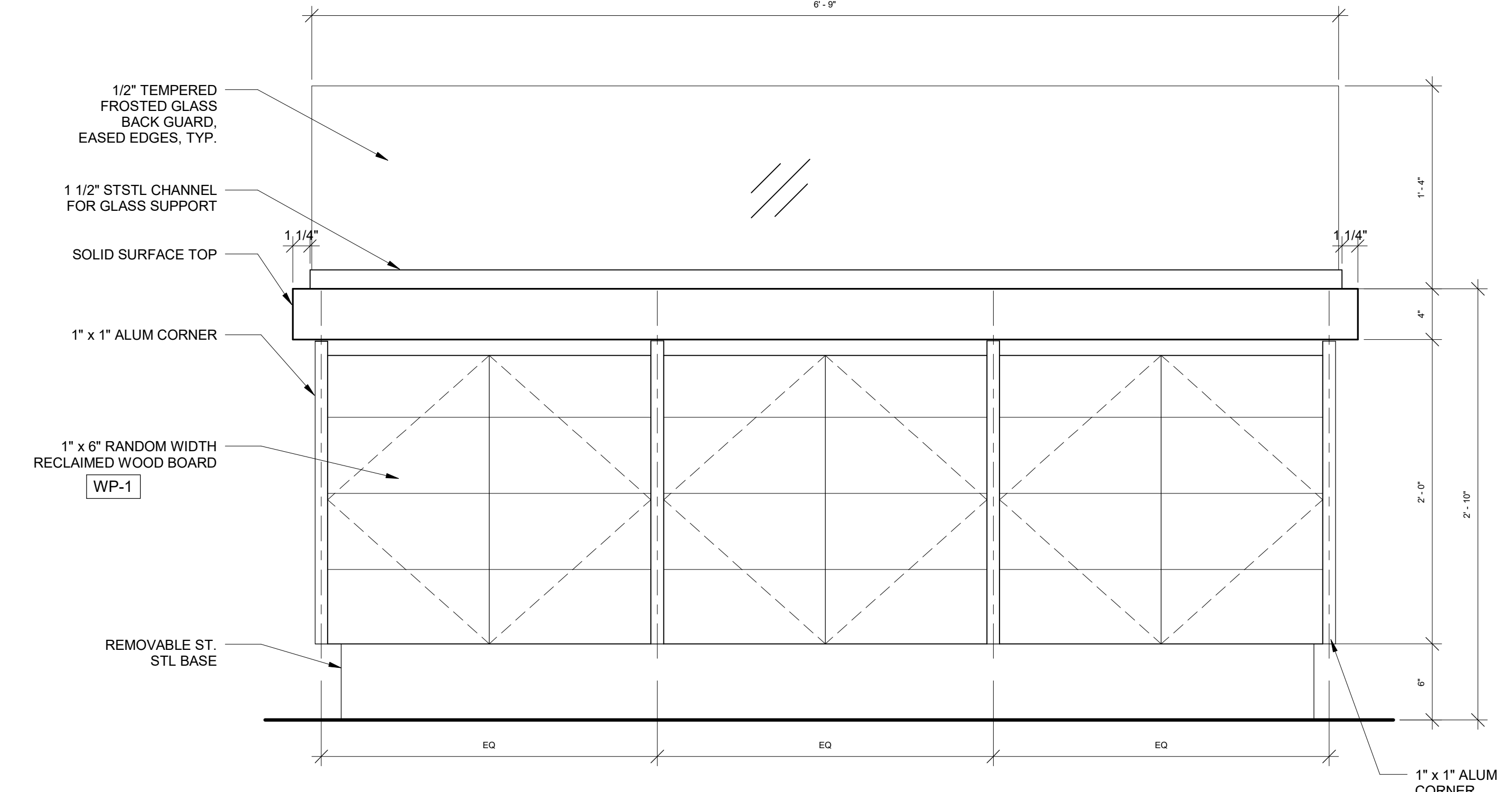
5 ELEVATION - FRONT OF CASH WRAP  
 1 1/2" = 1'-0"



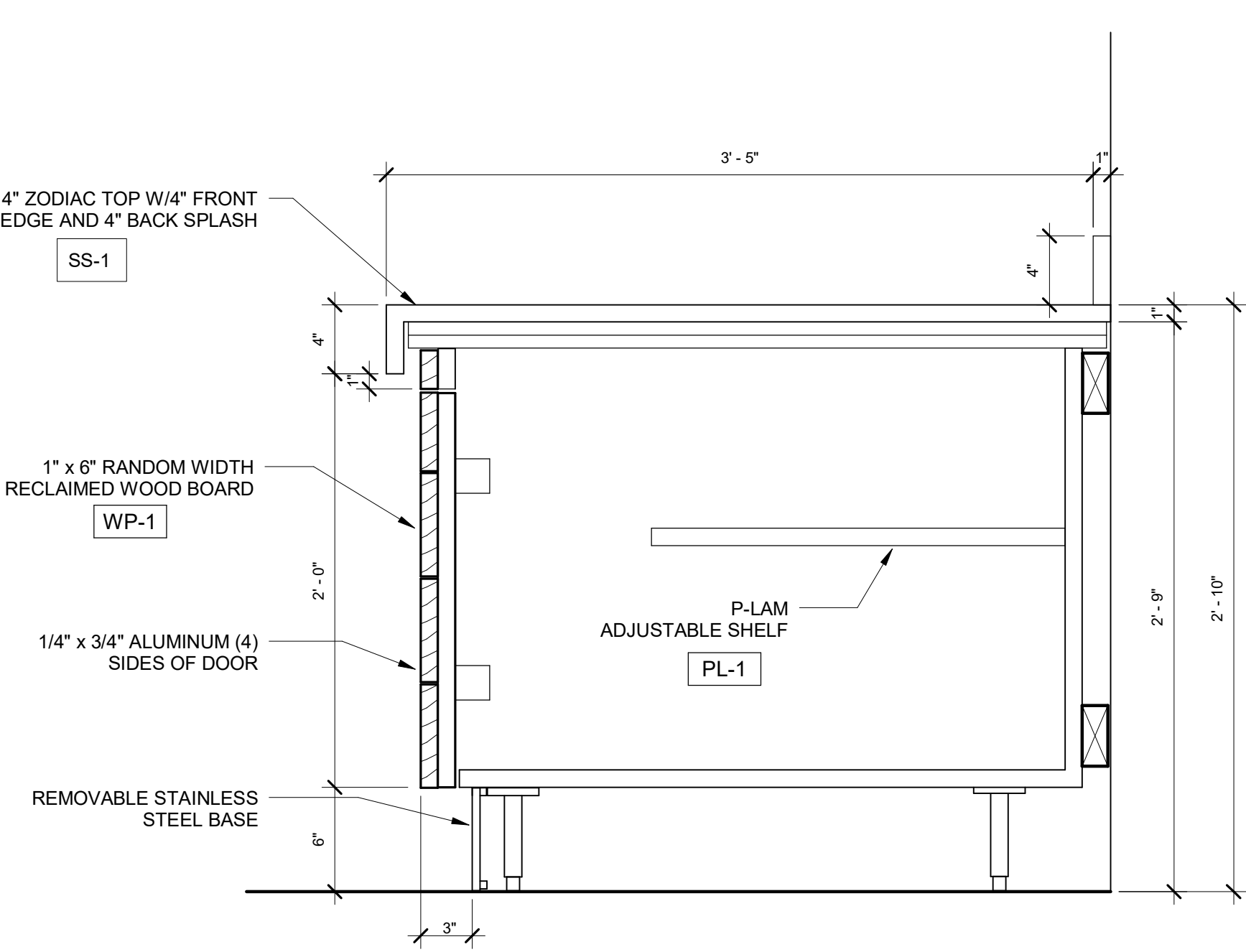
1 ENLARGED PLAN - CASH WRAP/CONDIMENT STATION  
 3/8" = 1'-0"



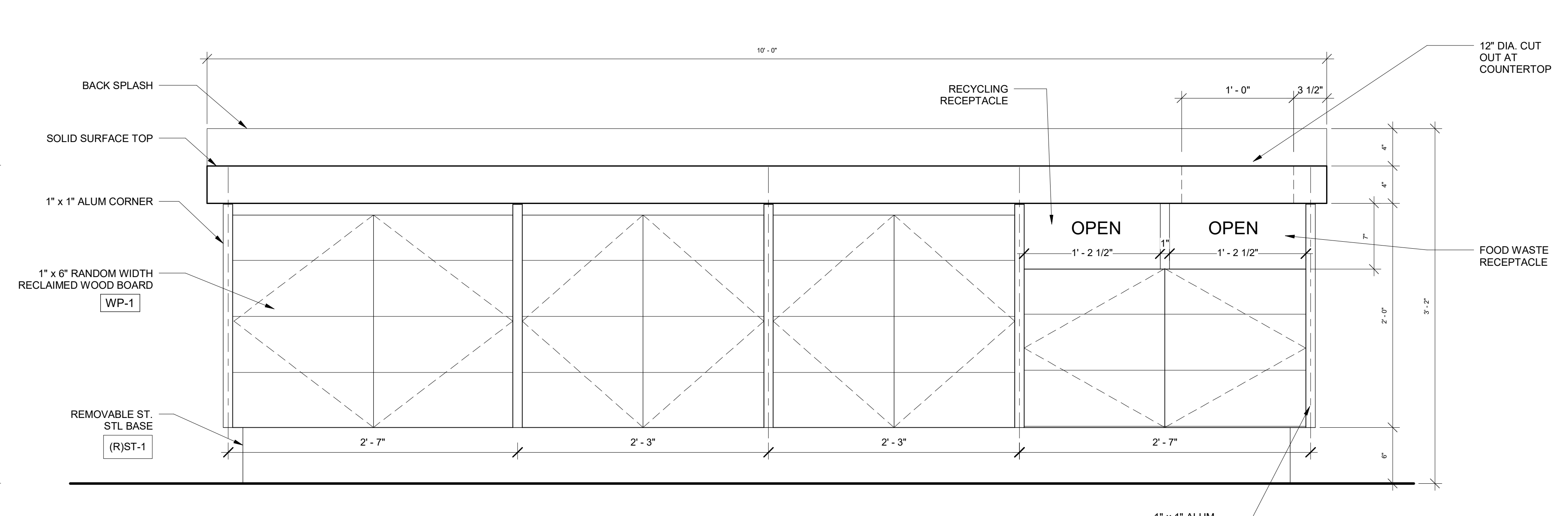
2 DETAIL OF CONDIMENT STATION (MW-4)  
 1 1/2" = 1'-0"



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

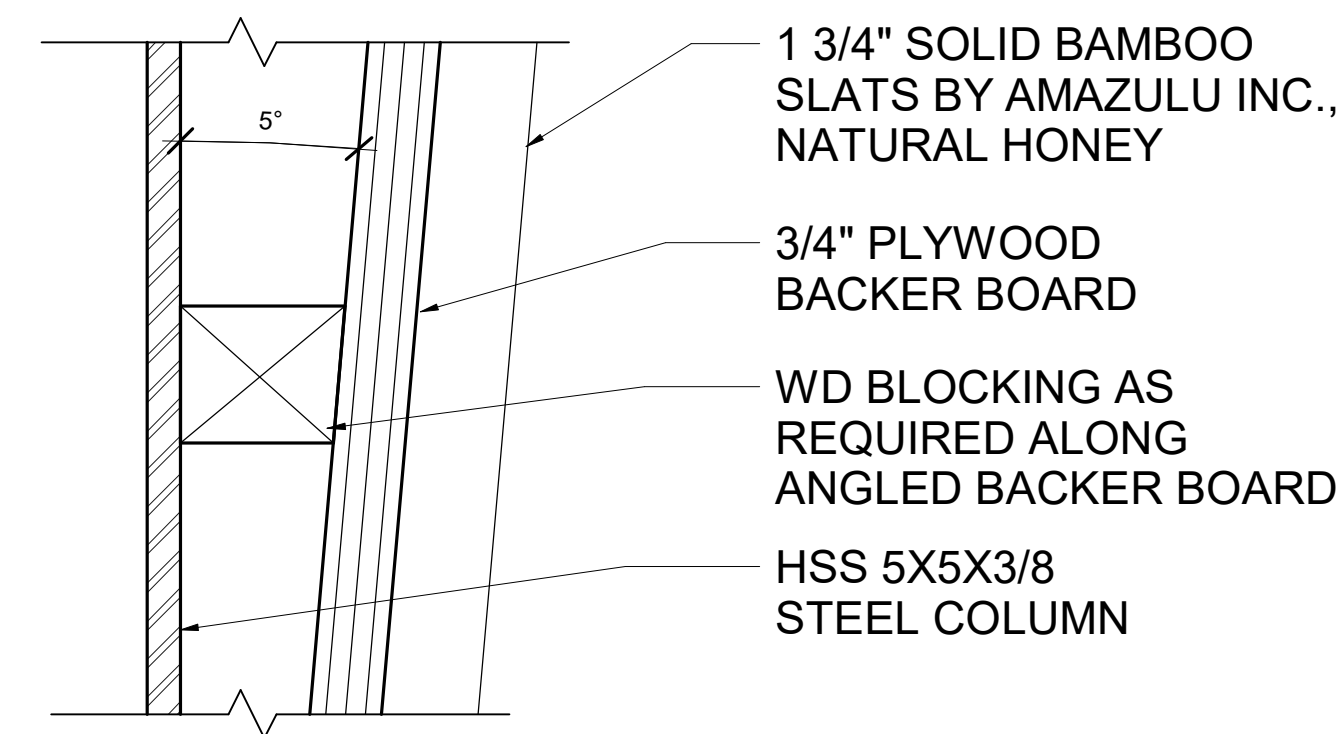


4 DETAIL OF TYPICAL COUNTER AT BEVERAGES (MW-2)  
 1 1/2" = 1'-0"

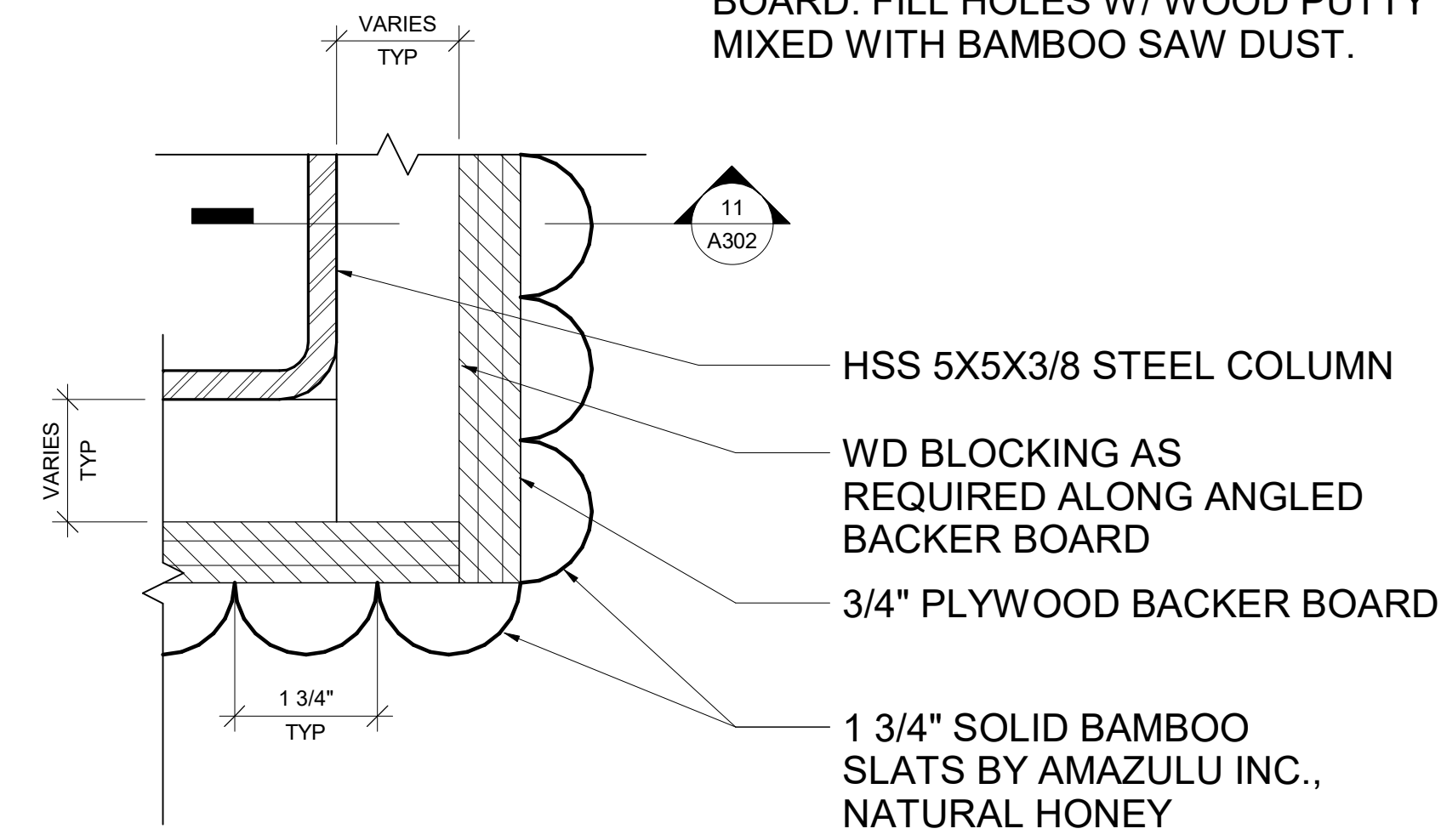


7 ELEVATION - BEVERAGE STATION (MW-2)  
 1 1/2" = 1'-0"



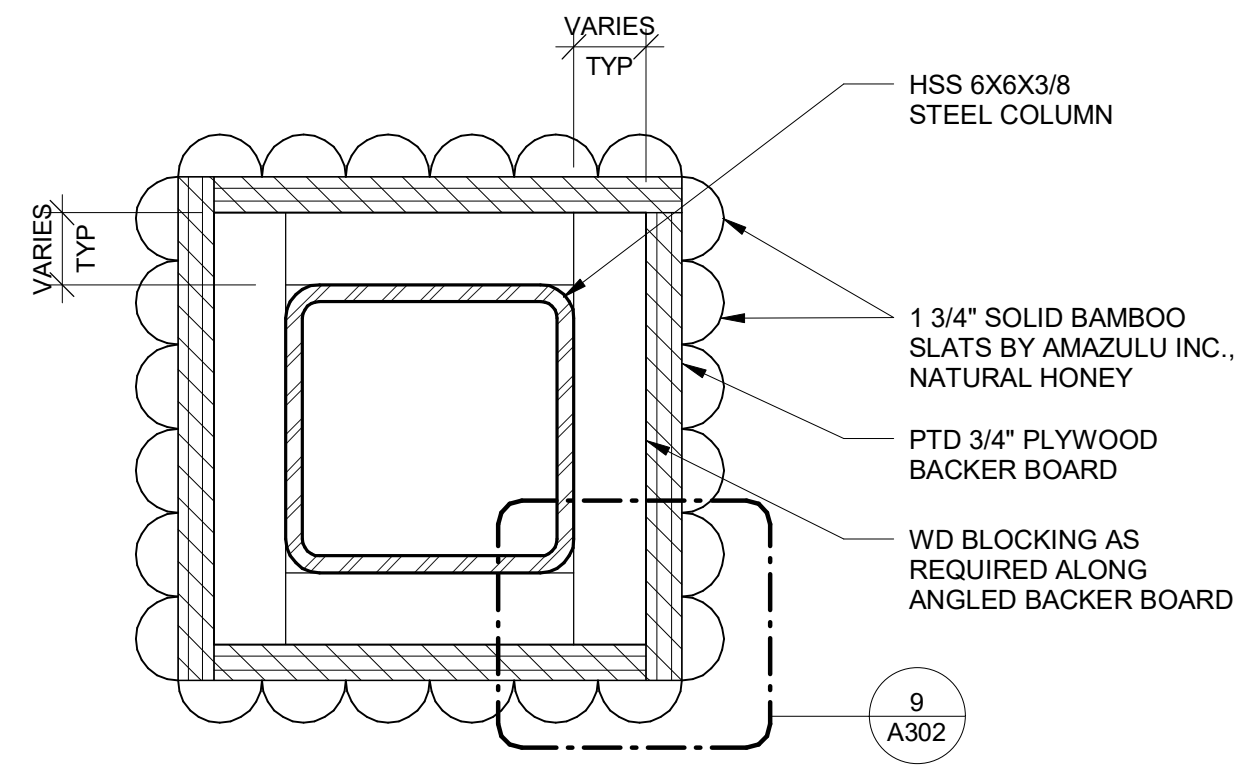


11 ENLARGED SECTION THROUGH BAMBOO SLAT  
6" = 1'-0"

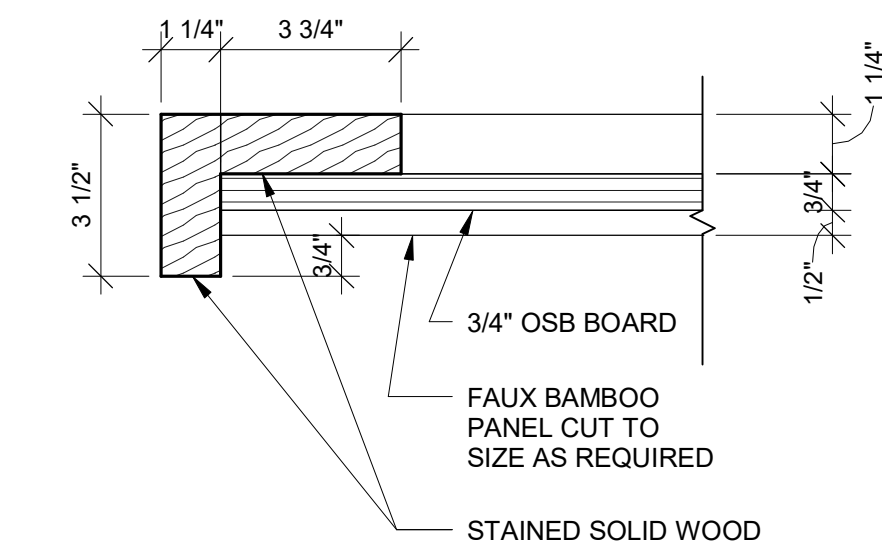


9 ENLARGED PLAN DETAIL - BAMBOO SLATS  
6" = 1'-0"

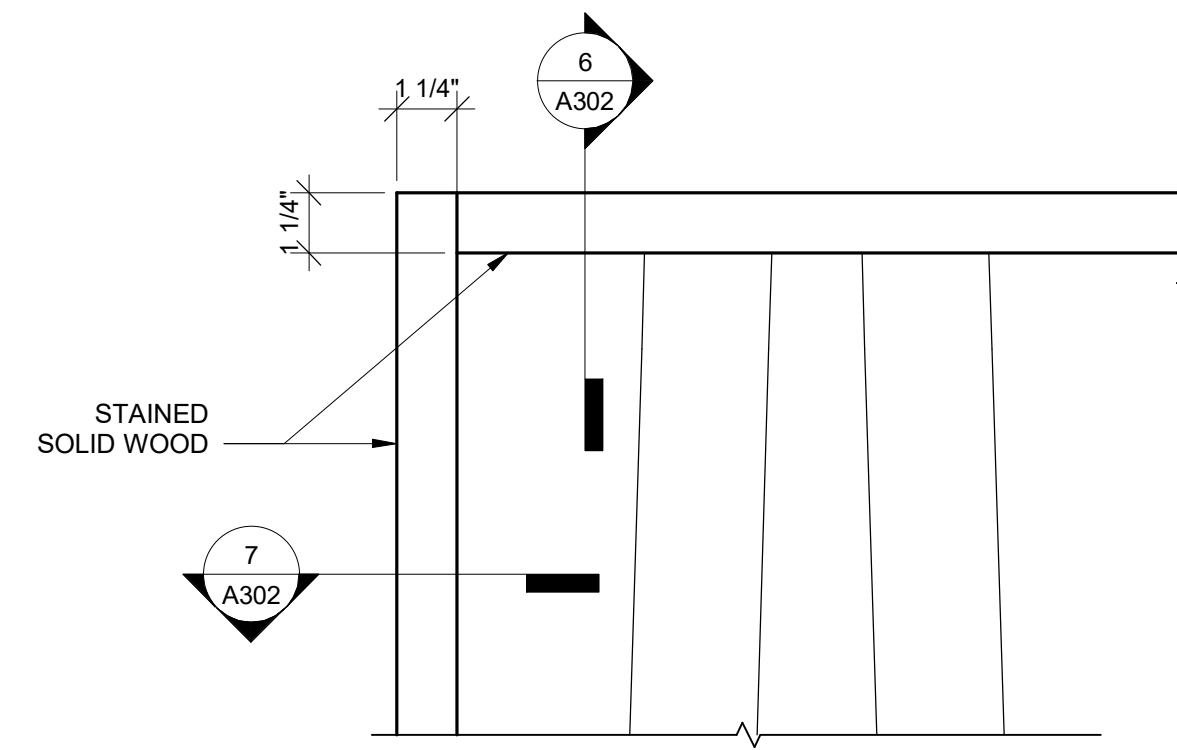
TO ATTACH BAMBOO SLATS - PRE-DRILL A HOLE IN THE NODE (THICKEST PART OF THE BAMBOO STRIP) AND SCREW INTO BACKER BOARD. FILL HOLES W/ WOOD PUTTY MIXED WITH BAMBOO SAW DUST.



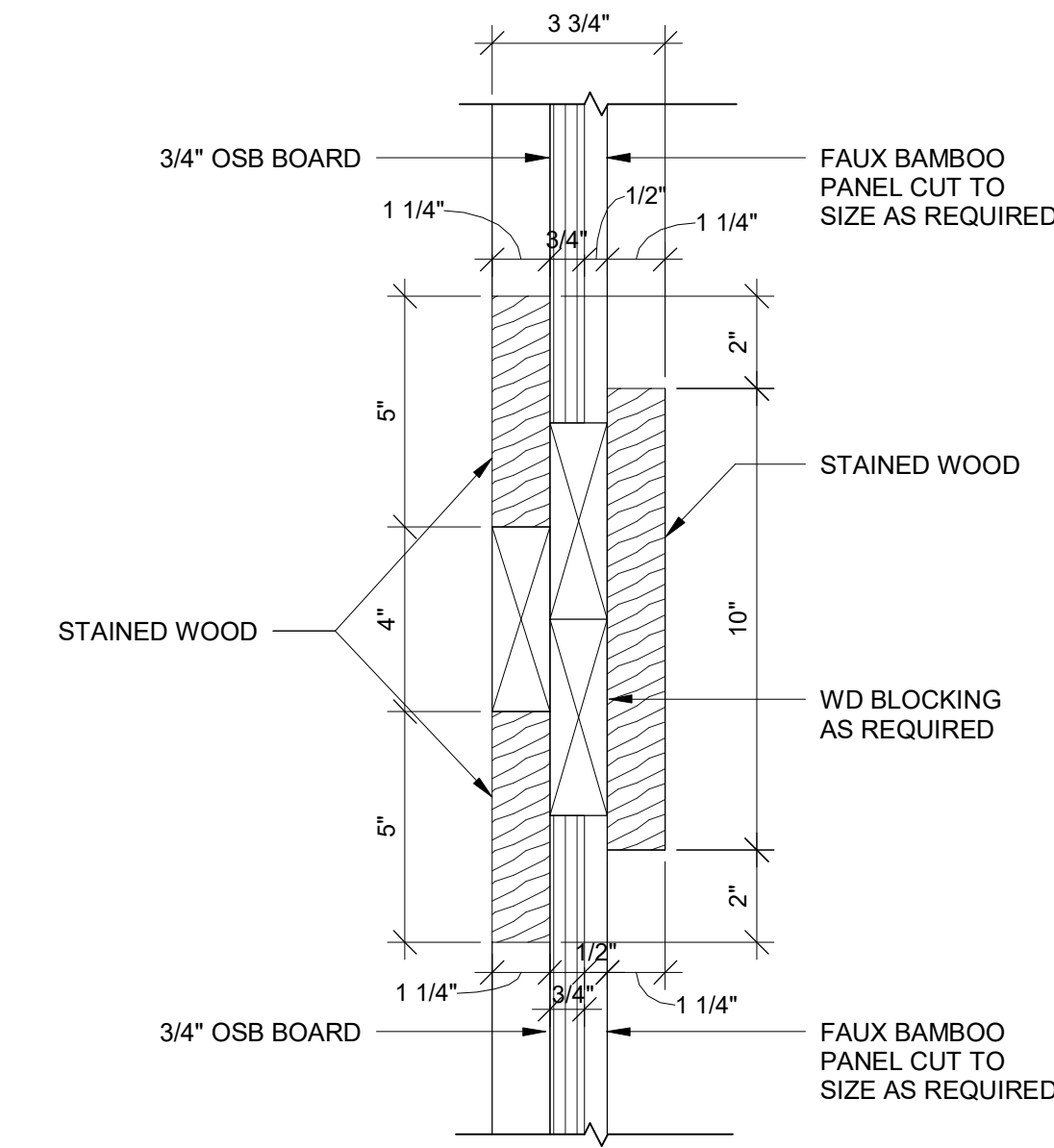
10 PLAN DETAIL AT INTERIOR BAMBOO COLUMN  
3" = 1'-0"



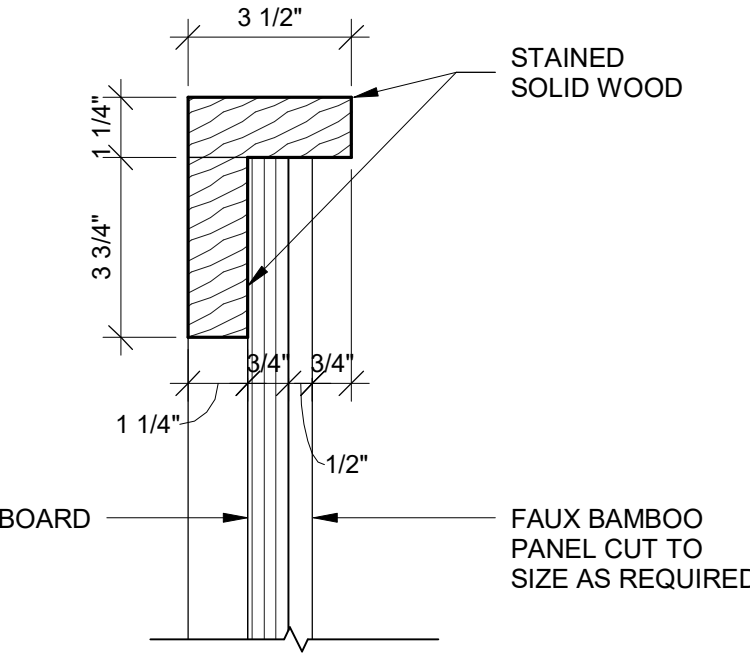
7 TYPICAL PLAN DETAIL AT BAMBOO PANEL  
3" = 1'-0"



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

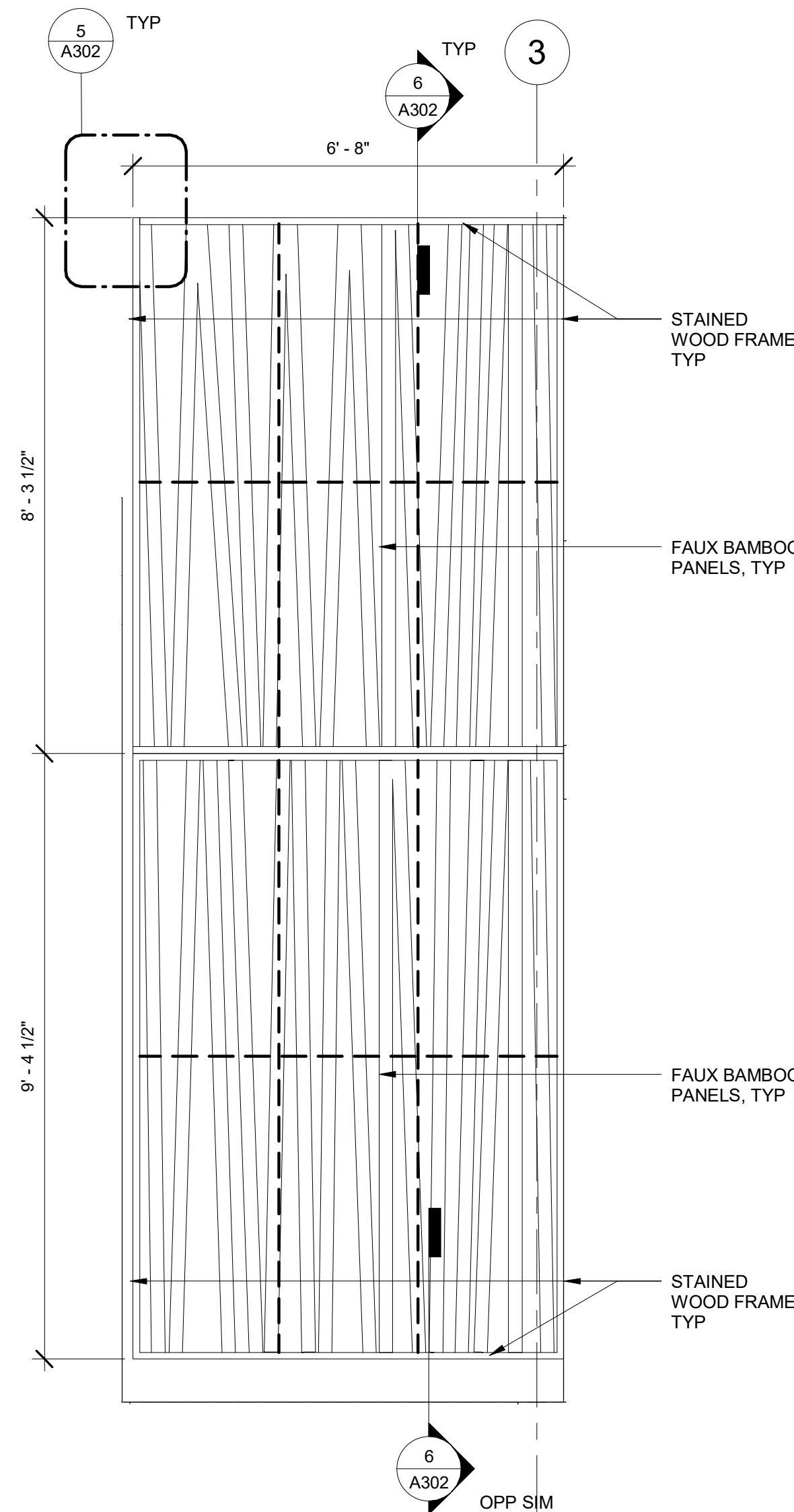


8 BAMBOO PANEL 'A' SECTION THROUGH CONNECTING MIDDLE FRAME  
3" = 1'-0"

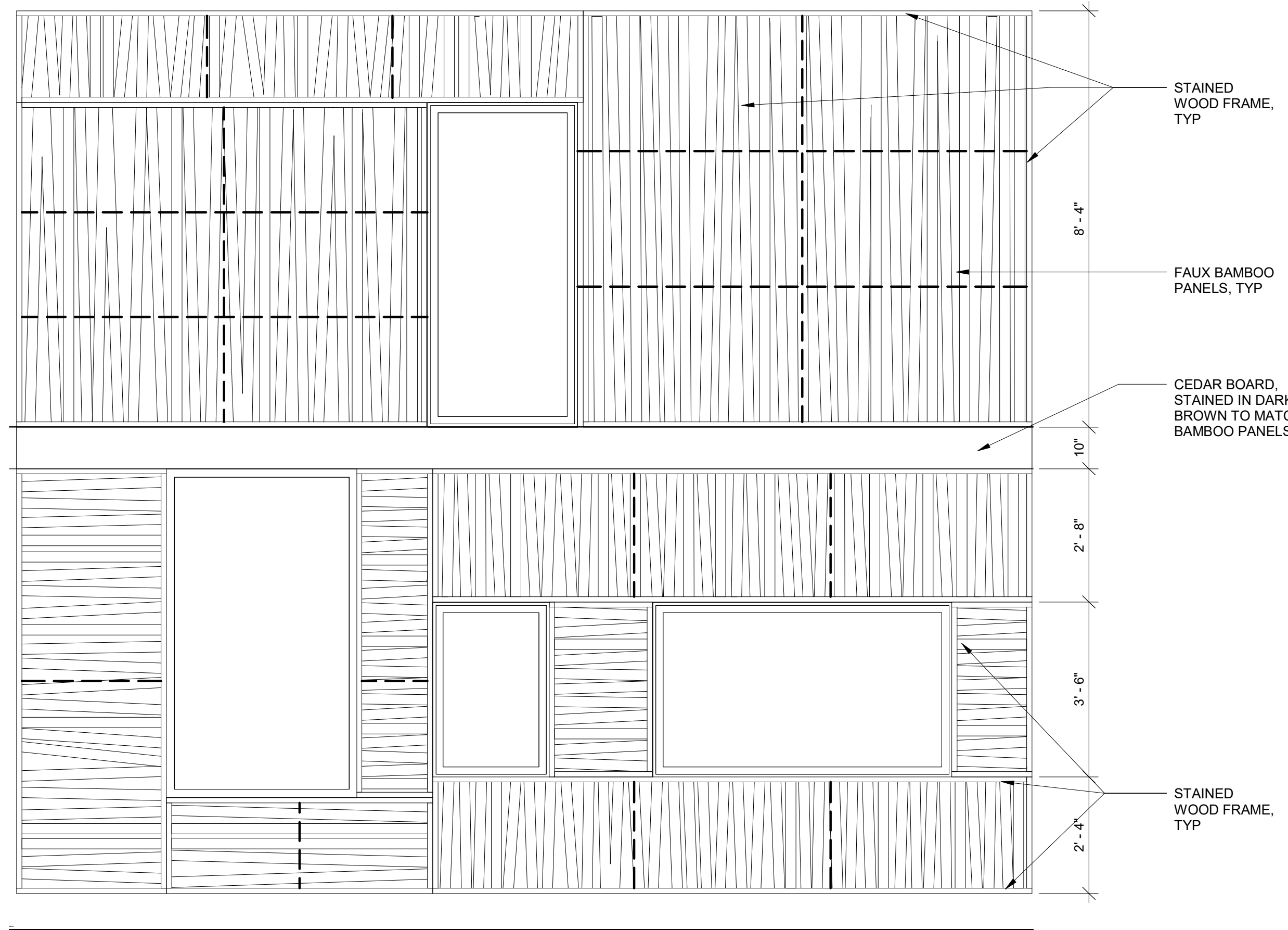


6 TYPICAL BAMBOO PANEL SECTION  
3" = 1'-0"

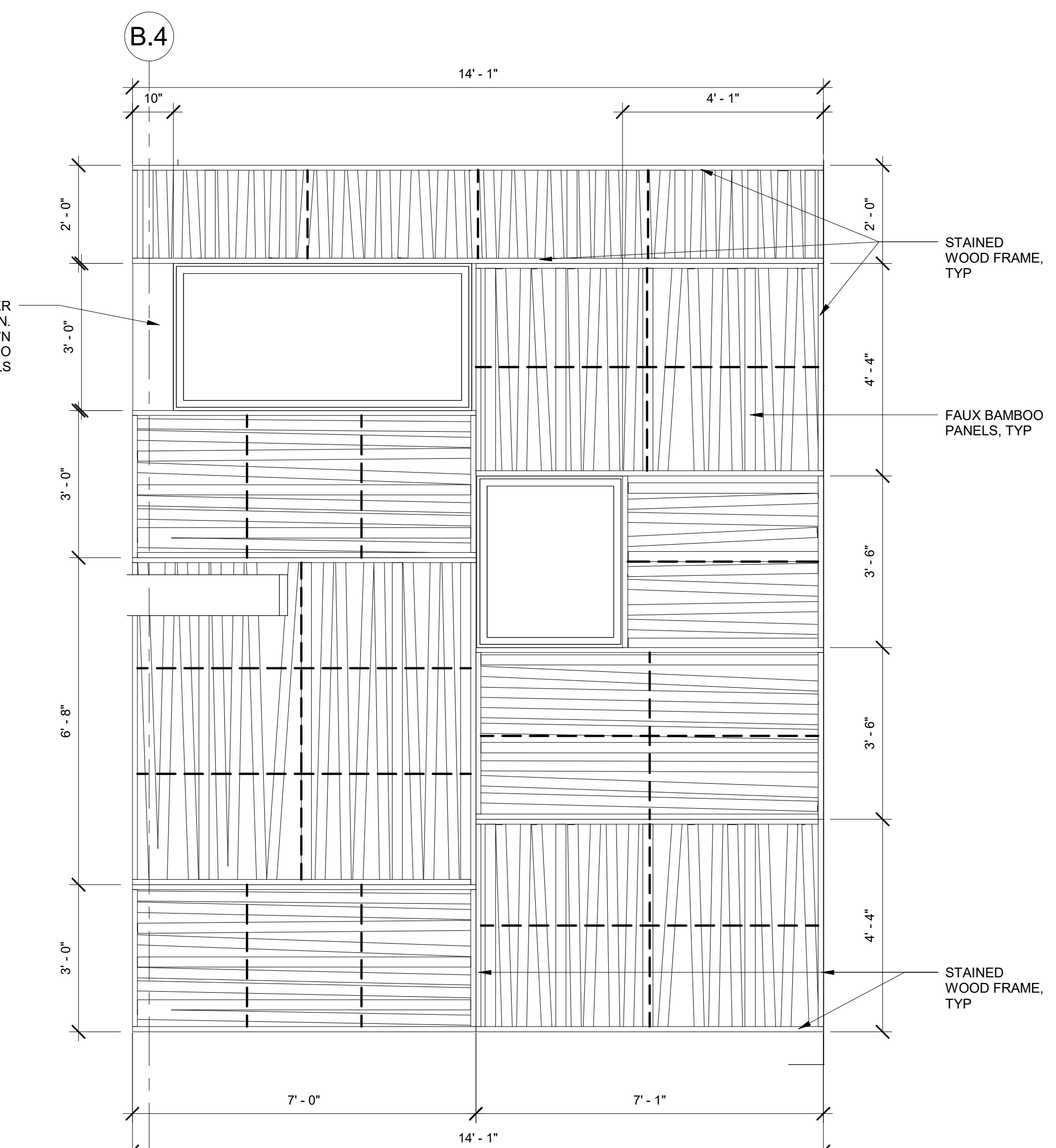
BAMBOO PANELS TO BE: FAUX BAMBOO POLE PANEL BY AMAZULU WWW.AMAZULU.COM  
COLOR: WEATHERED BROWN W/ CLASS A FIRE RESISTANT TREATMENT



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"

ARCHITECT  
D.T.M. ARCHITECT  
Dennis T. Mitchell, AIA  
6000 Arlington Blvd  
Arlington, TX 76017  
P: 817.265.2415 F: 817.483.7317  
Office: Reply@DtmArchitect.com

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

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

MEP ENGINEER:  
PSP ASSOCIATES  
1105 MELLIEU DRIVE  
DOWNTOWNTOWN, 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

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

TITLE:  
BAMBOO PANEL DETAILS  
DWG. NO.  
A302

ISSUED FOR BID  
2-12-2020

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

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

MEP ENGINEER:  
**PSP ASSOCIATES**  
 1105 MELLIEU DRIVE  
 DOWNINGTOWN, PA 19335

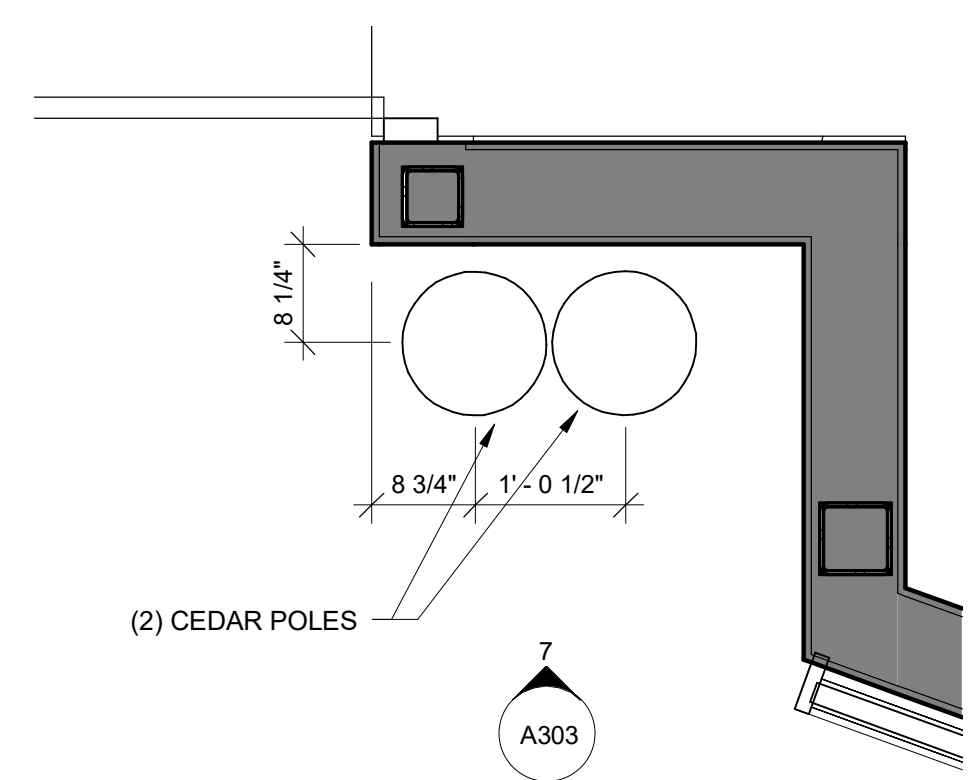
MULHERN CONSULTING ENGINEERS  
 321 SOUTH YORK ROAD  
 HATBORO, PA 19040

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

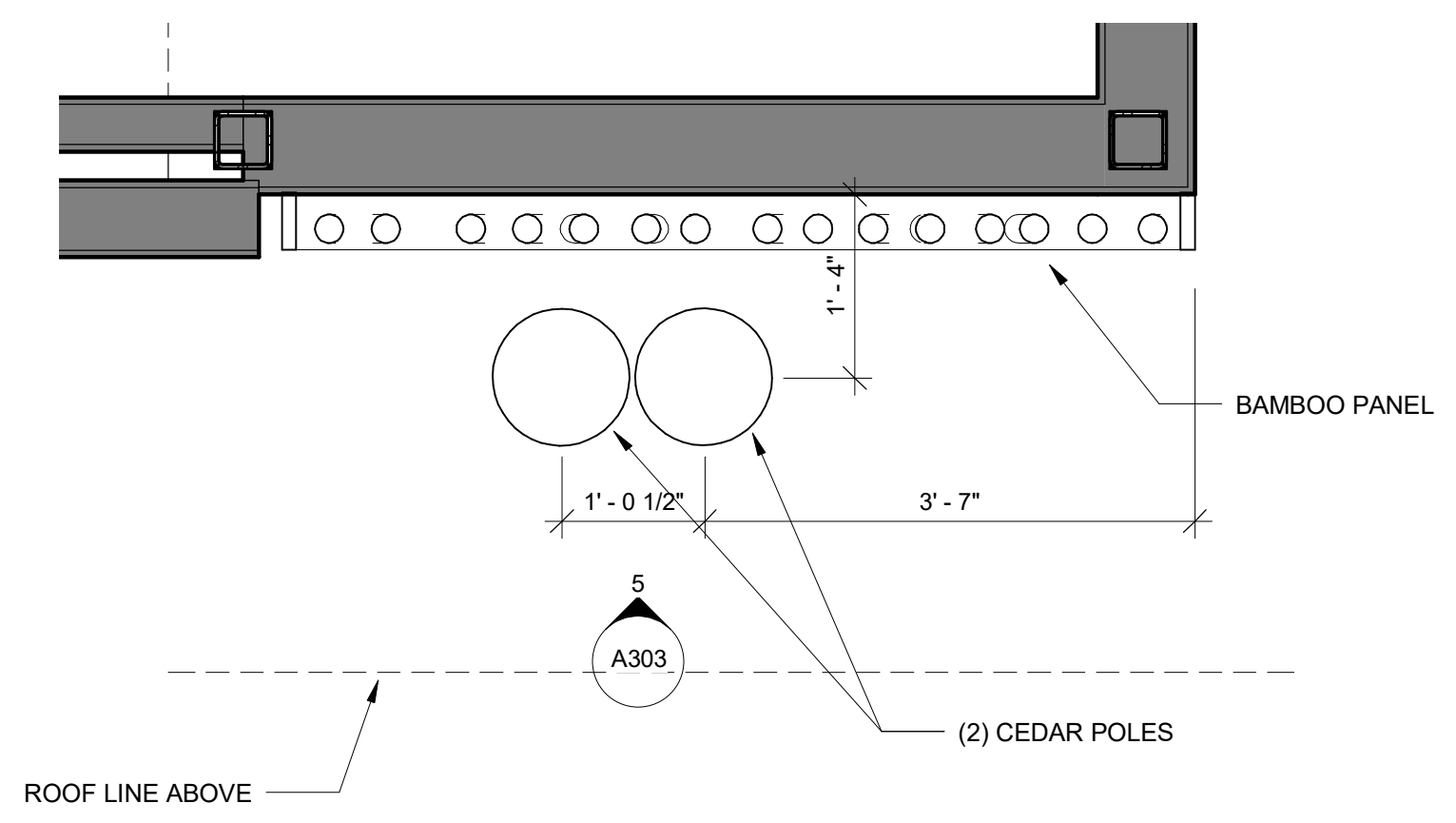
**CAPE MAY COUNTY ZOO SAFARI  
 CAFE 2 NEW RETAIL FOOD BUILDING**  
 707 ROUTE 9 NORTH, CAPE MAY COURT  
 HOUSE, NJ 08210

APPROVED BY: AT  
 DRAWN (Author)  
 SCALAS indicated

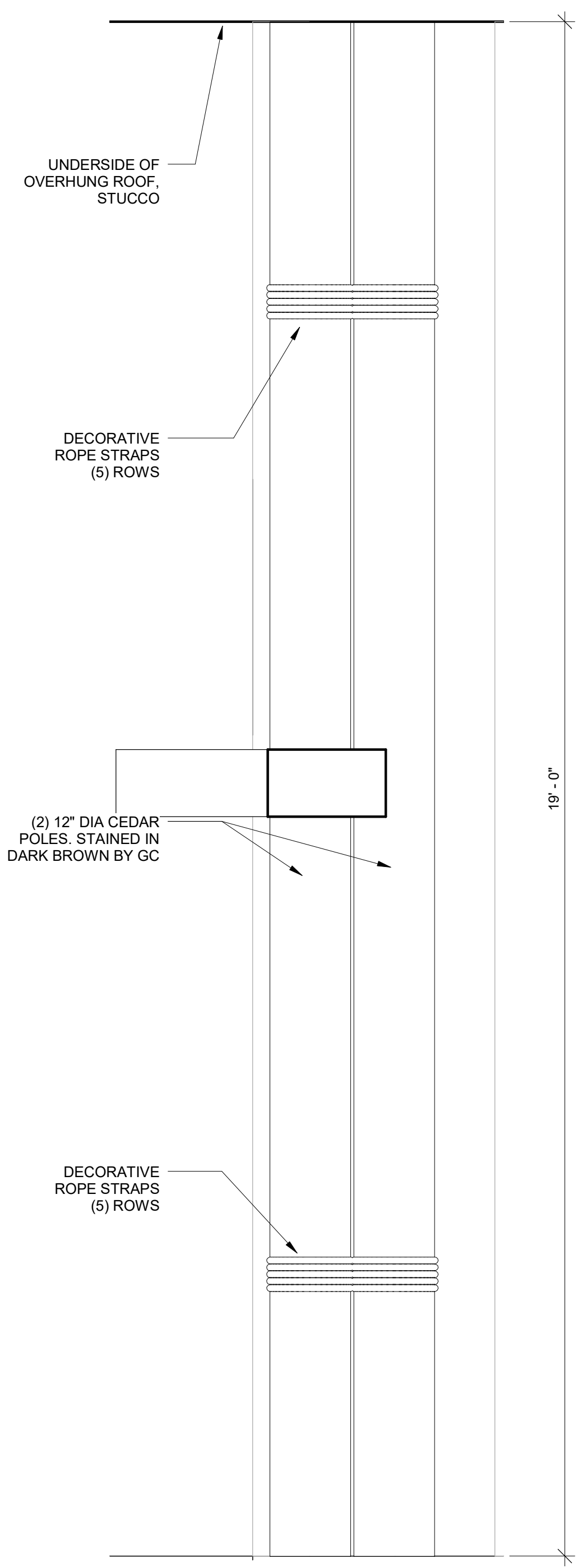
TITLE:  
**BAMBOO SLAT SUSPENDED  
 CANOPY DETAILS**  
 DWG. NO. **A303**



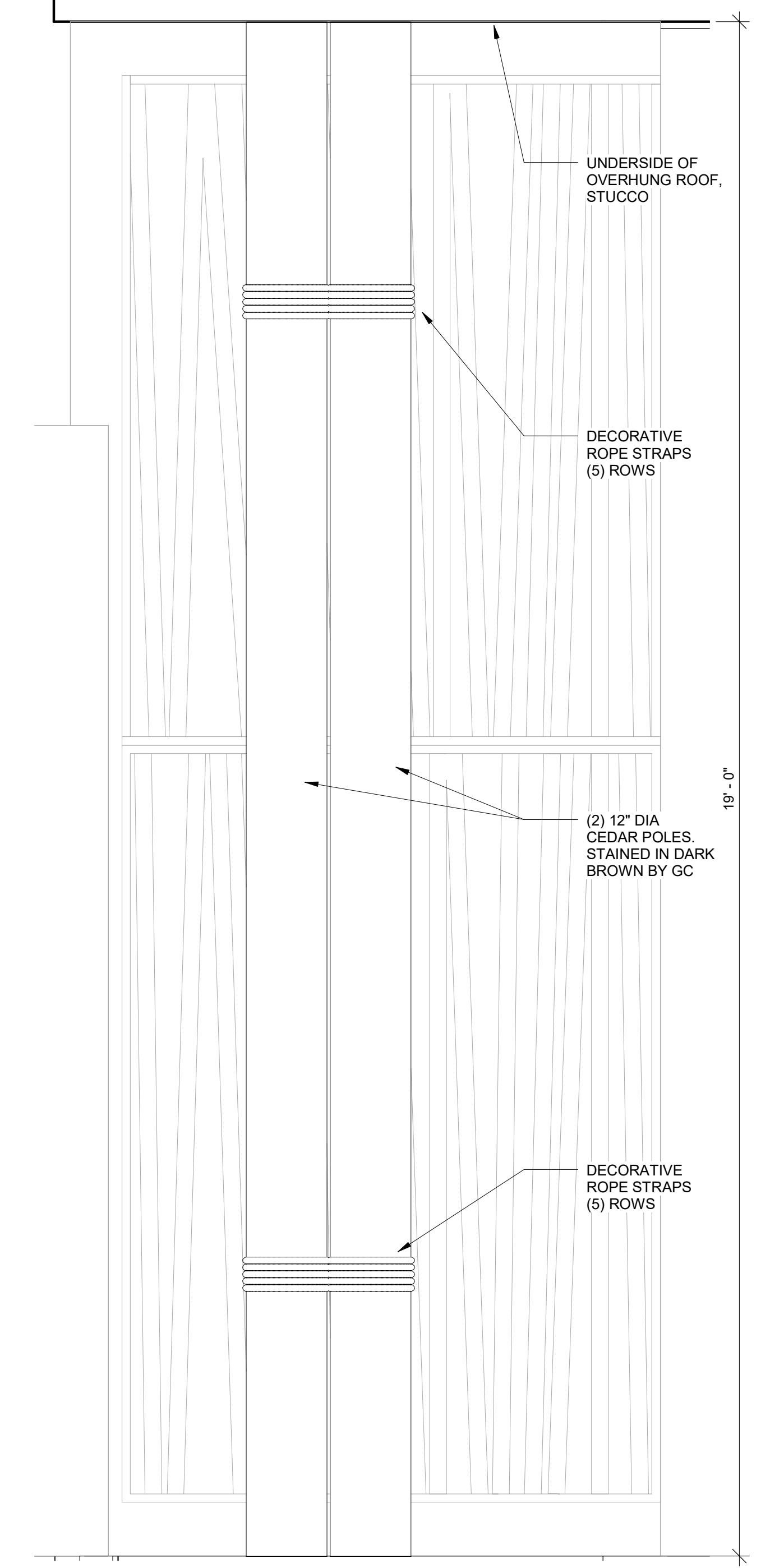
6 WEST FACADE - CEDAR POLES PLAN  
 3/4" = 1'-0"



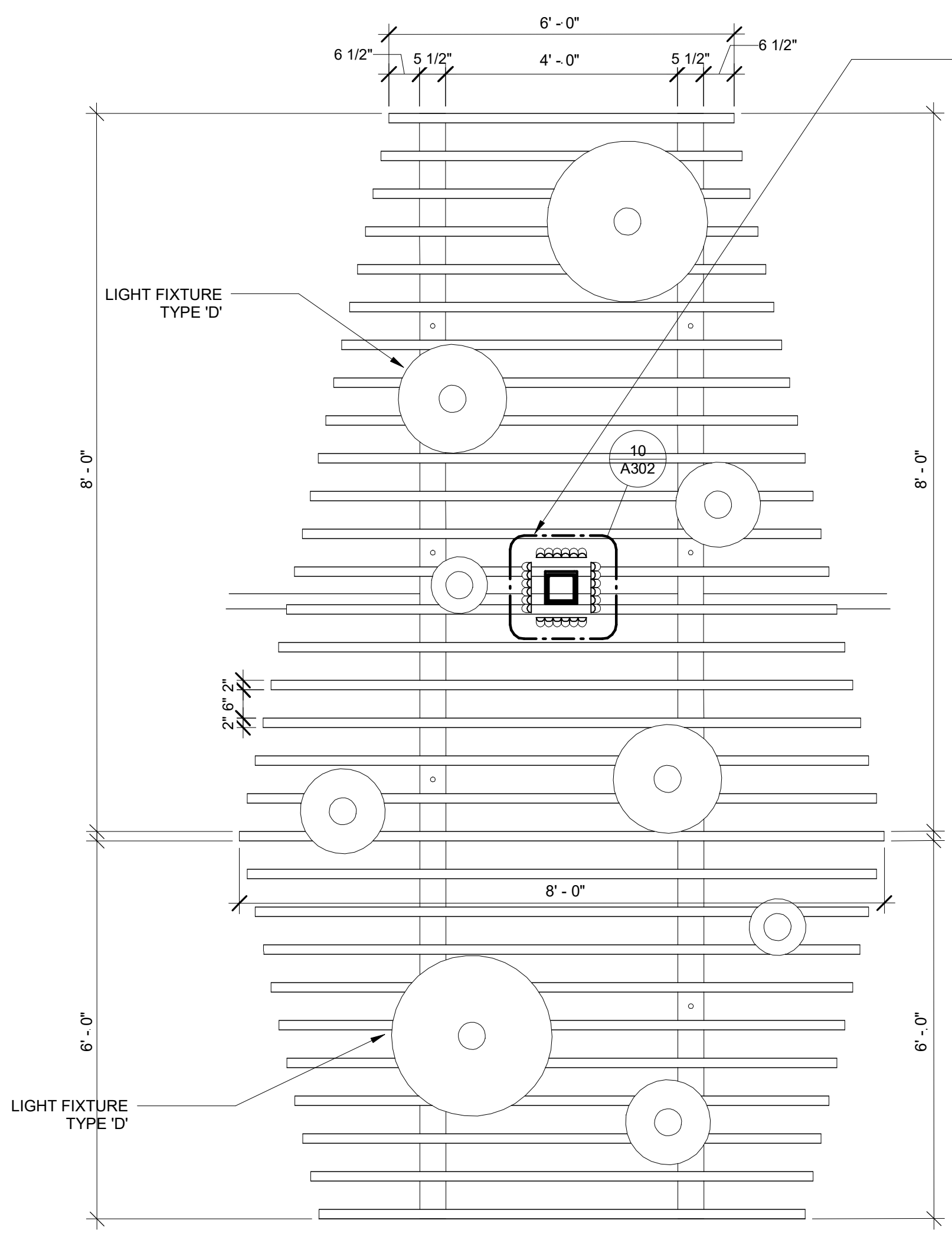
4 NORTH FACADE - CEDAR POLES PLAN  
 3/4" = 1'-0"



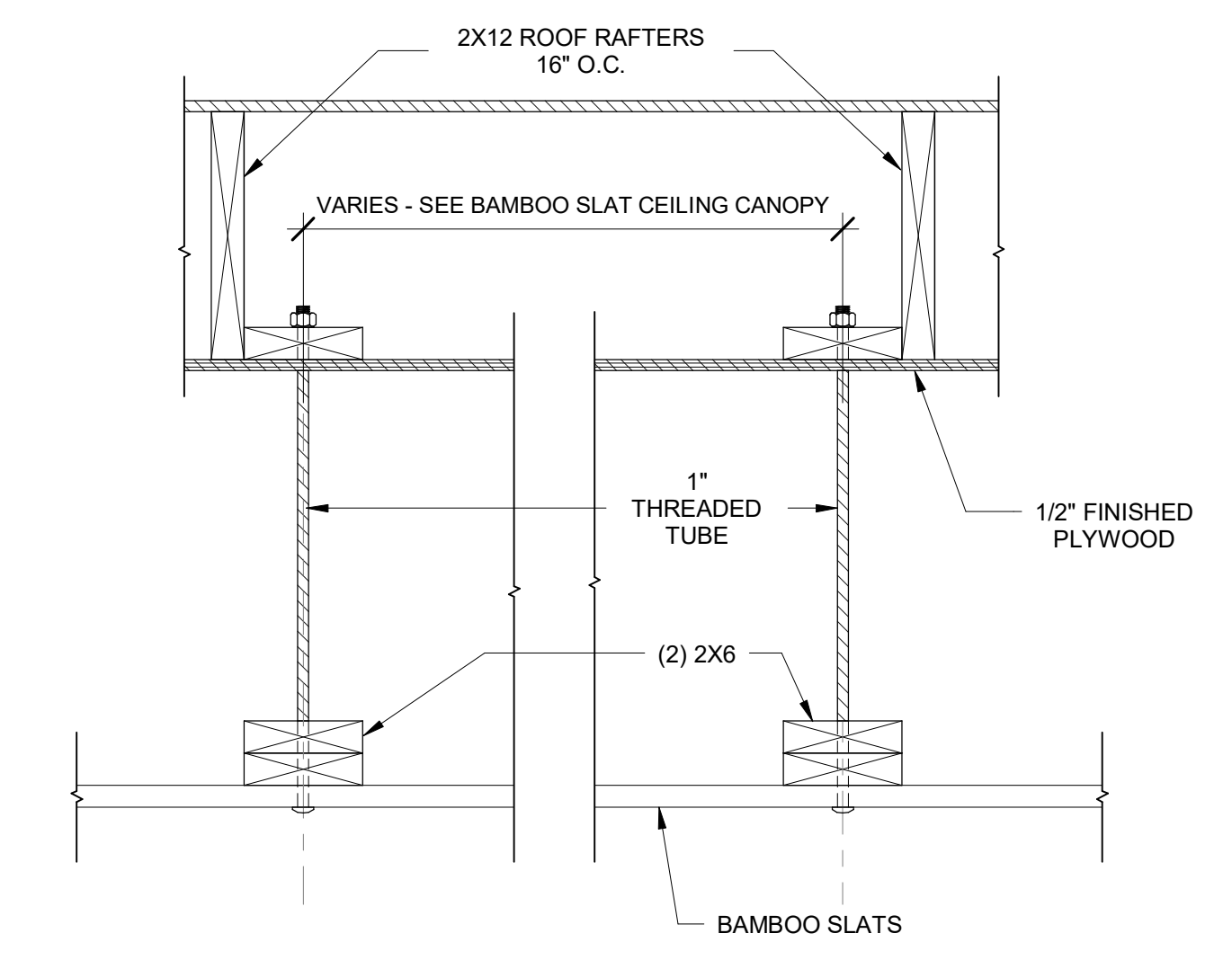
7 Elevation 4 - a  
 3/4" = 1'-0"



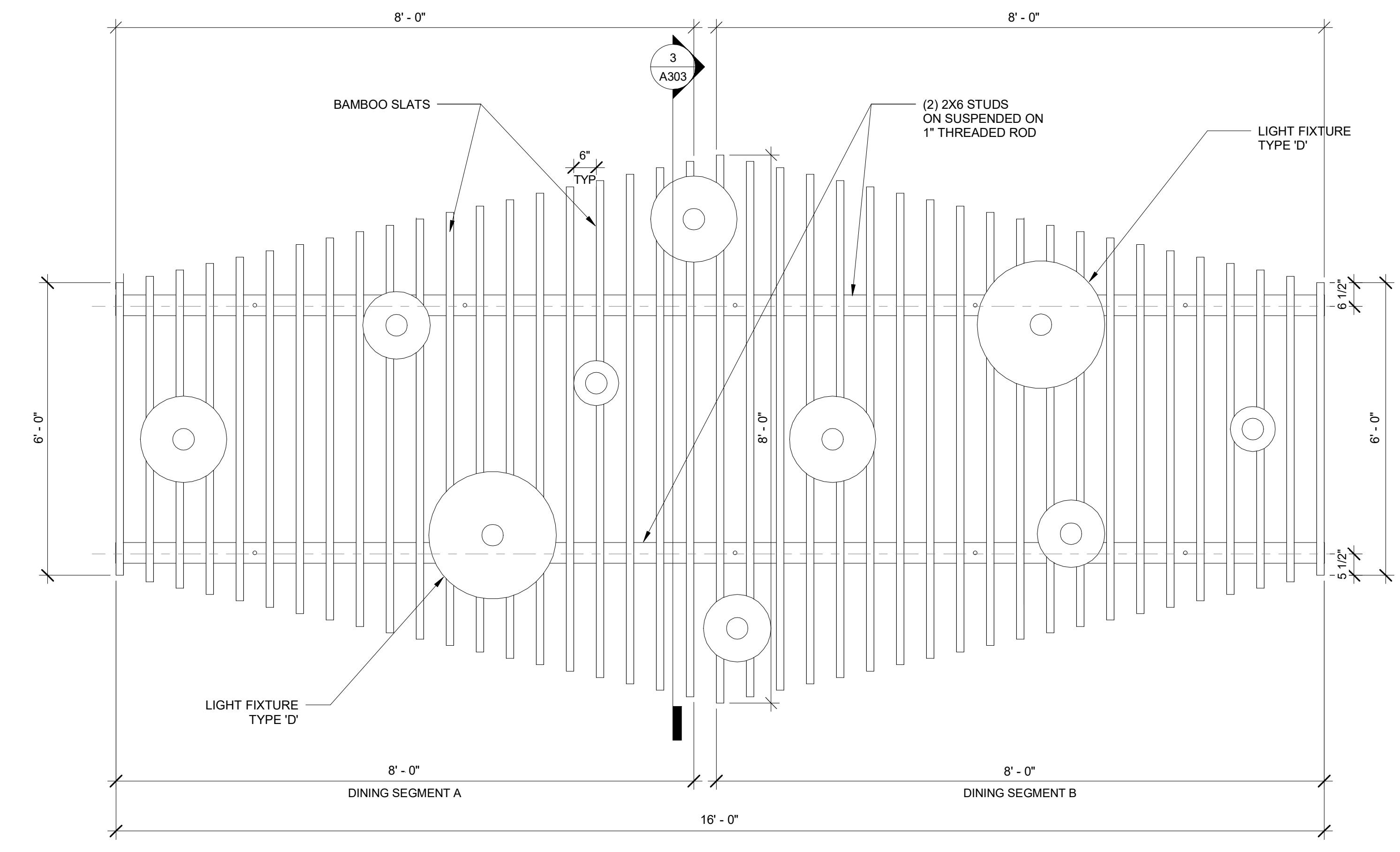
5 Elevation 3 - a  
 3/4" = 1'-0"



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

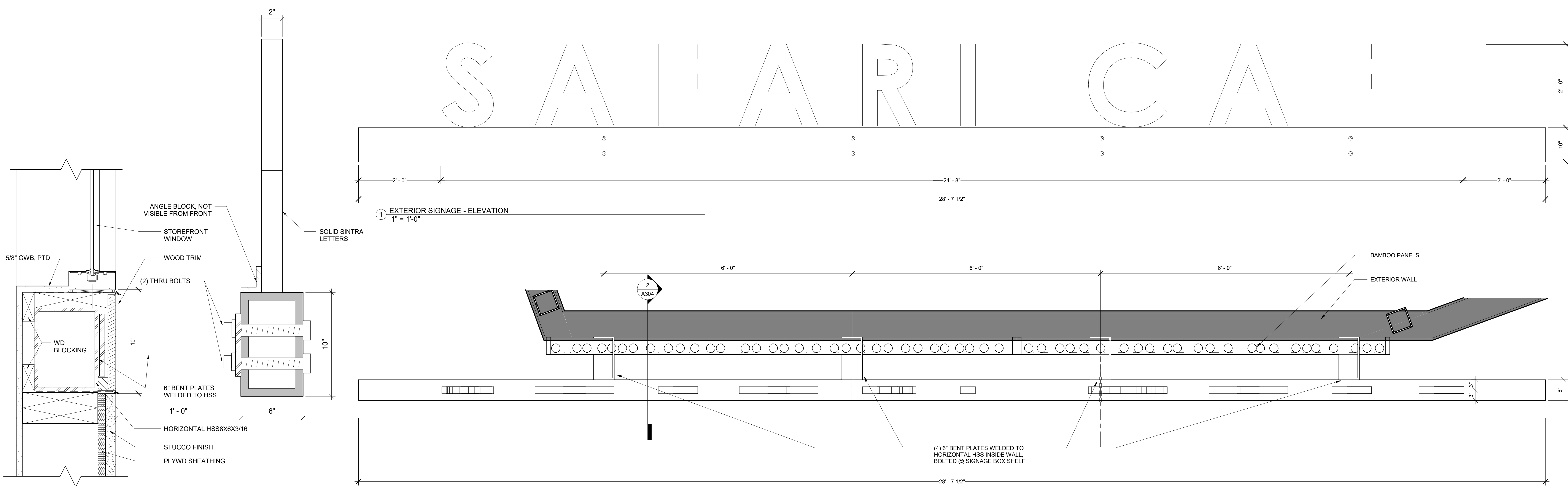


3 BAMBOO SLAT SUSPENSION DETAIL  
 1 1/2" = 1'-0"



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

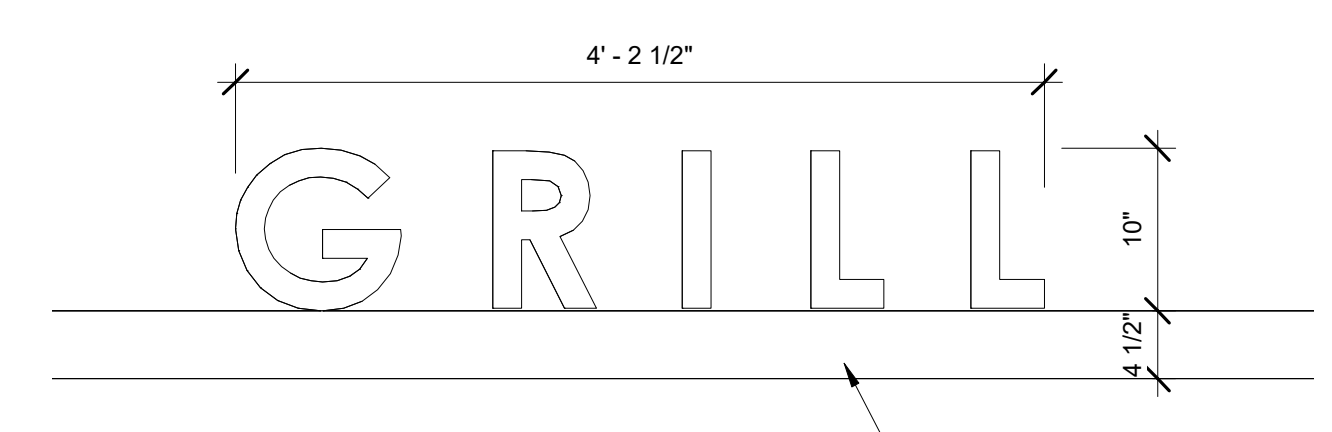
ISSUED FOR BID  
 2-12-2020



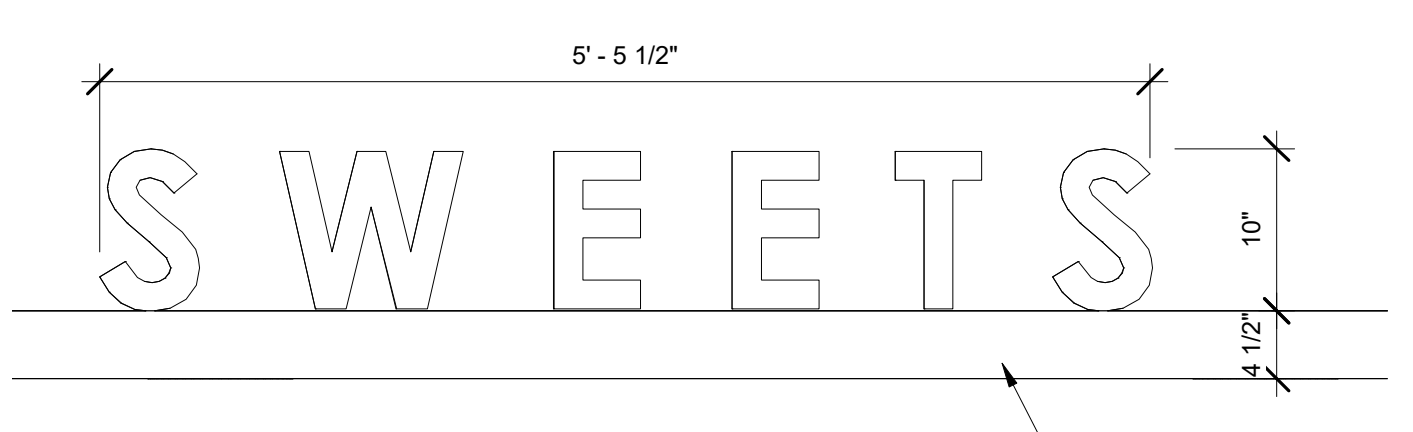
1 EXTERIOR SIGNAGE - ELEVATION  
1" = 1'-0"

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

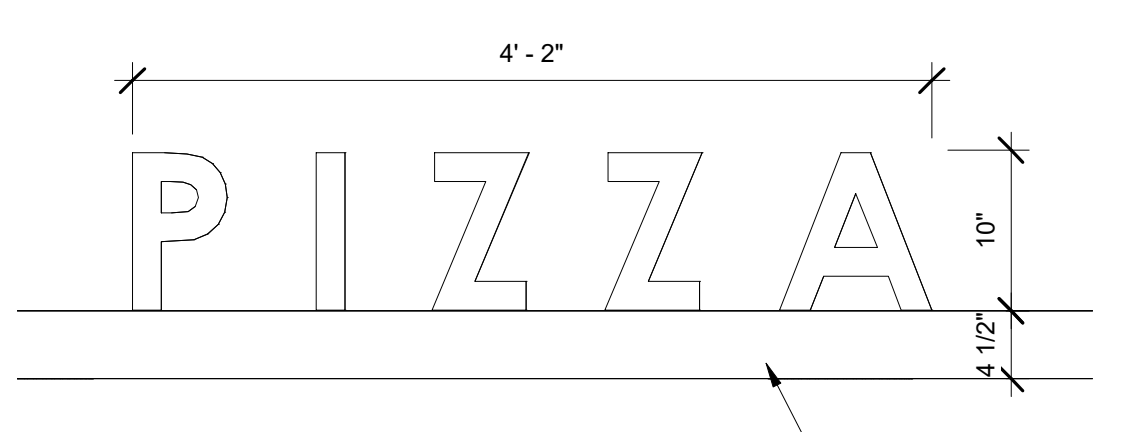
3 EXTERIOR SIGNAGE - PLAN  
1" = 1'-0"



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



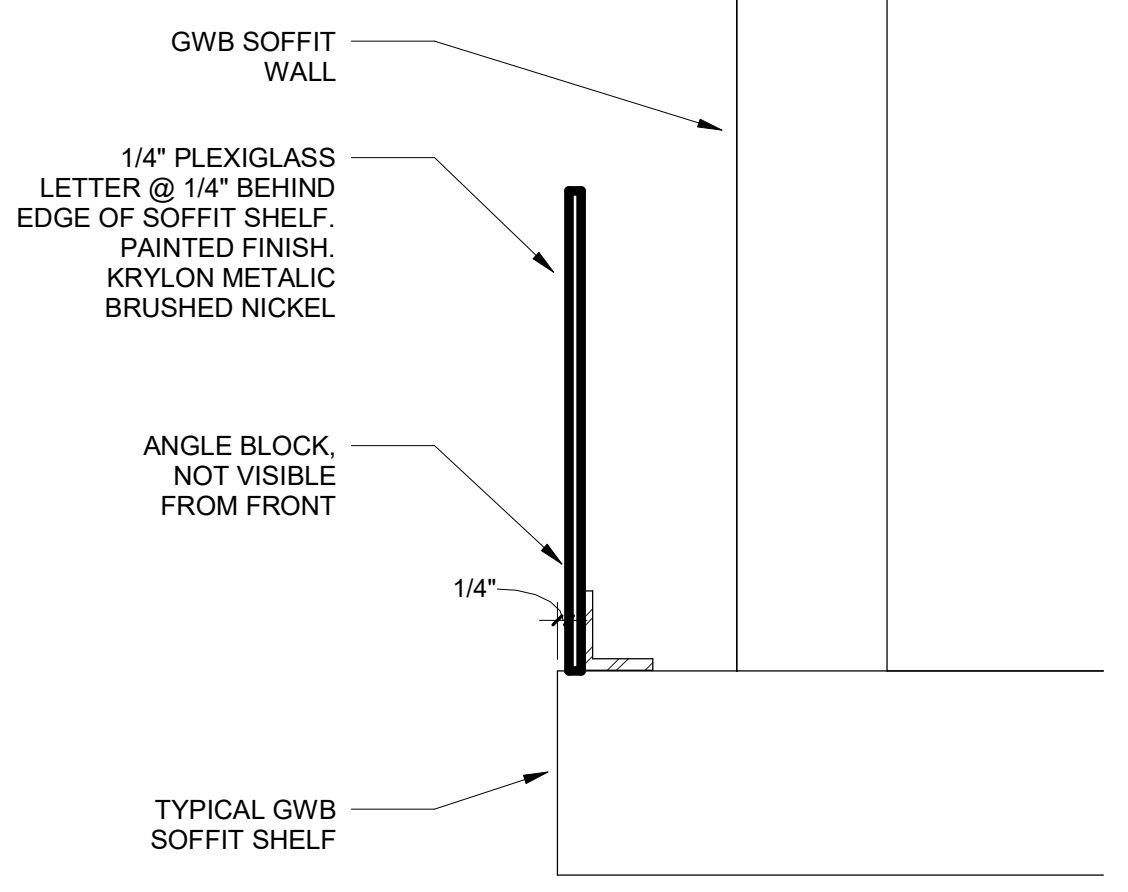
5 INTERIOR SIGN - "SWEETS"  
1" = 1'-0"



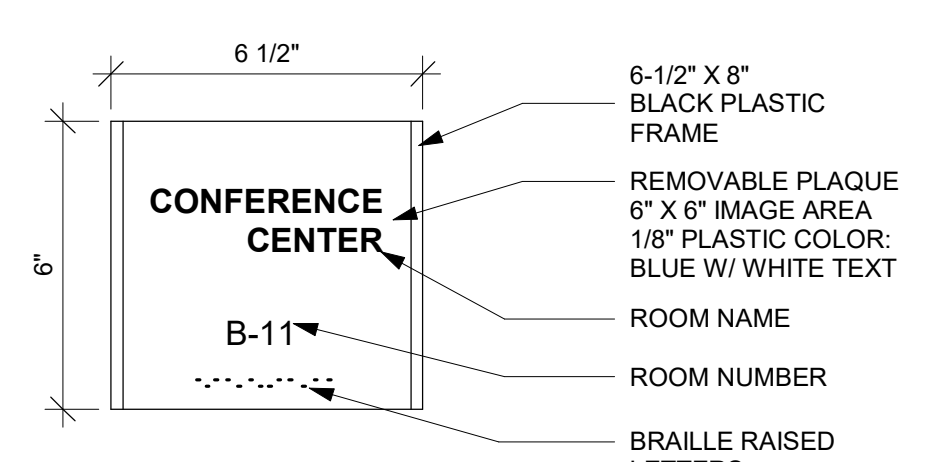
4 INTERIOR SIGN - "PIZZA"  
1" = 1'-0"

**SIGNAGE SCHEDULE**

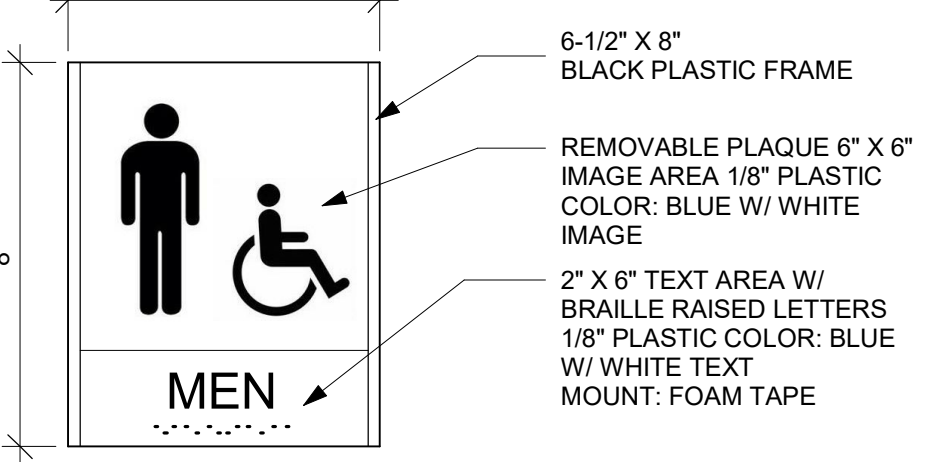
NO	COPY	QTY.	LOCATION	SIZE	FONT	COLOR	REMARKS
1	SAFARI CAFE	1	EXTERIOR, NORTH-WEST FACADE	24" H.	CENTURY GOTHIC	GREEN MANUF: BENJAMIN MOORE #2029-40 STEM GREEN	
2	PIZZA	1	INTERIOR, FOODCOURT	10" H.	CENTURY GOTHIC	KRYLON METALIC BRUSHED NICKEL	
3	SWEETS	1	INTERIOR, FOODCOURT	10" H.	CENTURY GOTHIC	KRYLON METALIC BRUSHED NICKEL	
4	GRILL	1	INTERIOR, FOODCOURT	10" H.	CENTURY GOTHIC	KRYLON METALIC BRUSHED NICKEL	
5	MEN	1	MENS BATHROOM #113				
6	WOMEN	1	WOMENS BATHROOM #114				REFER TO TYPICAL TOILET ROOM SIGN DETAIL 9/A304
7	ALL GENDER ADA	2	ADA BATHROOM #106 & #115				
8	ELECTRICAL ROOM	1	ELECTRICAL ROOM #108				
9	SERVICE ENTRY	1	B.O.H. REAR ENTRY #103				SIGNAGE TO BE MOUNTED ON EXTERIOR
10		1	OFFICE #109				REFER TO TYPICAL ROOM SIGN DETAIL 9/A304
11		1	OFFICE #110				
12		1	OFFICE #111				
13	STAFF ONLY	1	DRY STORAGE #107				SIGNAGE TO BE MOUNTED ON DOOR



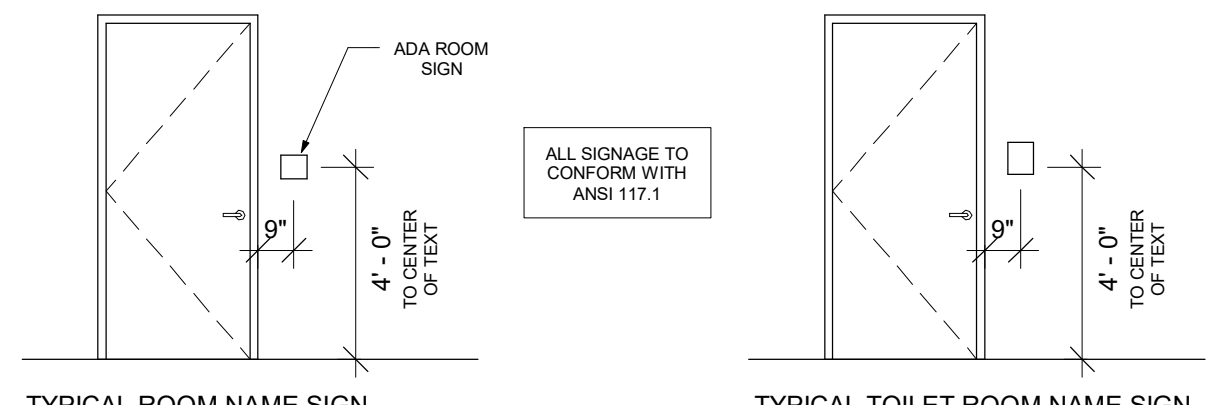
8 SECTION @ TYPICAL INTERIOR SIGNS  
3" = 1'-0"



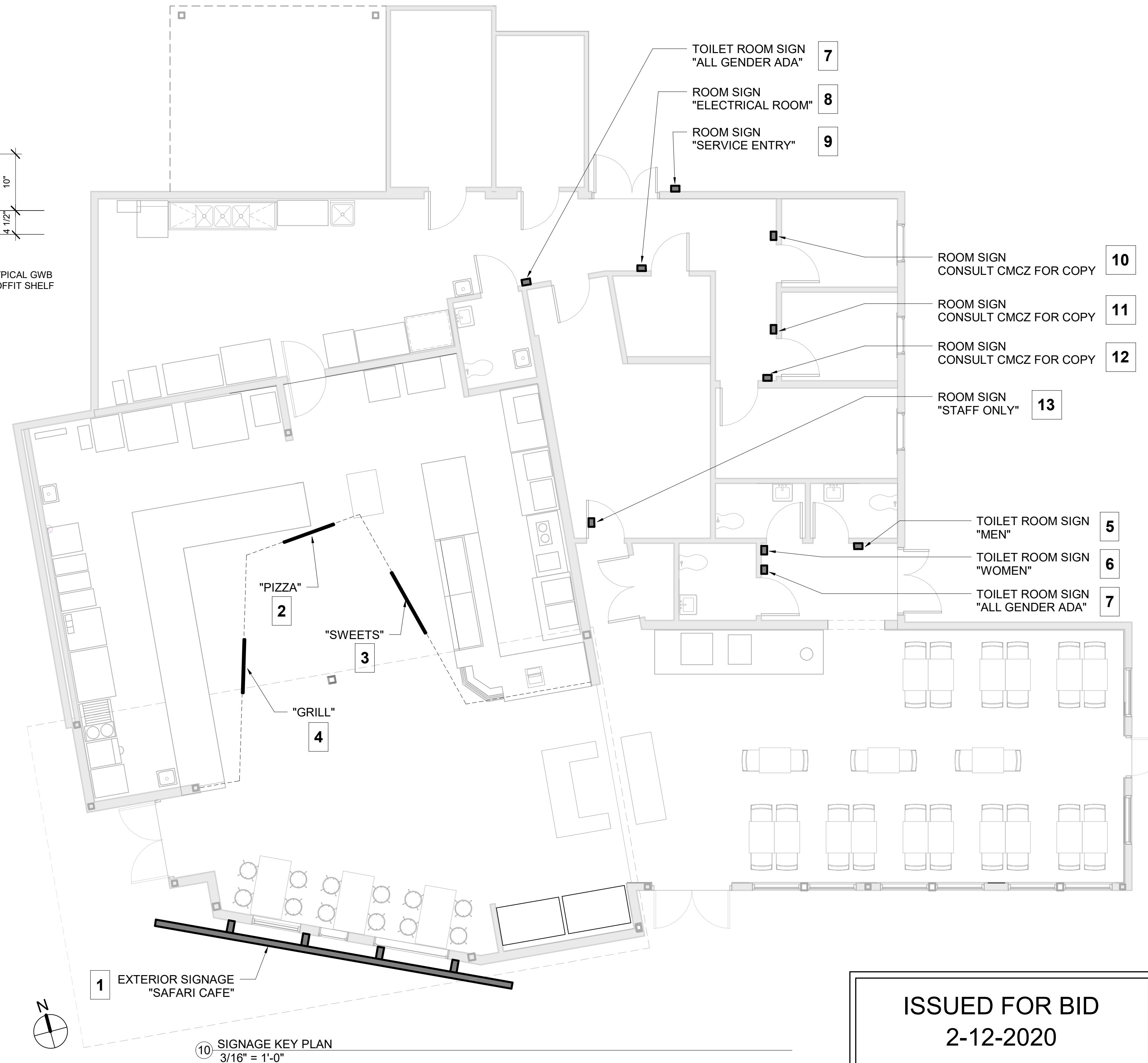
9 ADA ROOM SIGN GRAPHIC DETAIL  
3" = 1'-0"



7 TYPICAL TOILET ROOM SIGN

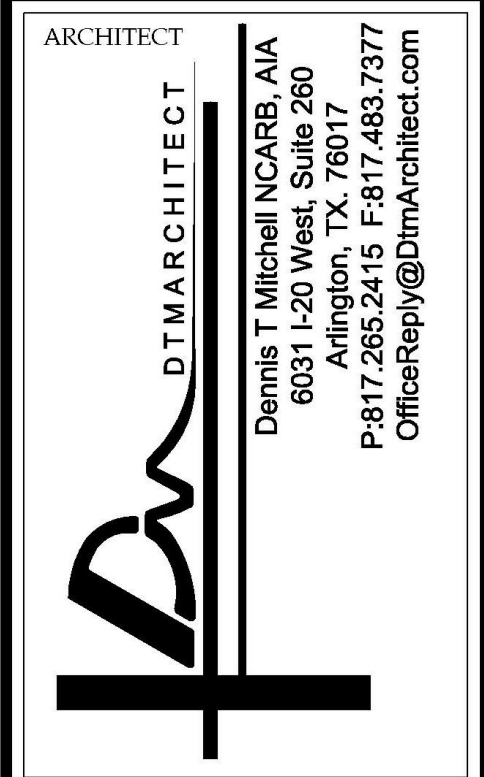


7 ADA INTERIOR SIGNAGE LOCATION DETAIL  
1/4" = 1'-0"



10 SIGNAGE KEY PLAN  
3/16" = 1'-0"

ISSUED FOR BID  
2-12-2020



ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:  
  
DESIGNER:  
**T+ASSOCIATES INC.**  
525 S. 4TH ST., STE 591  
PHILADELPHIA, PA 19147  
T: 215.629.6374

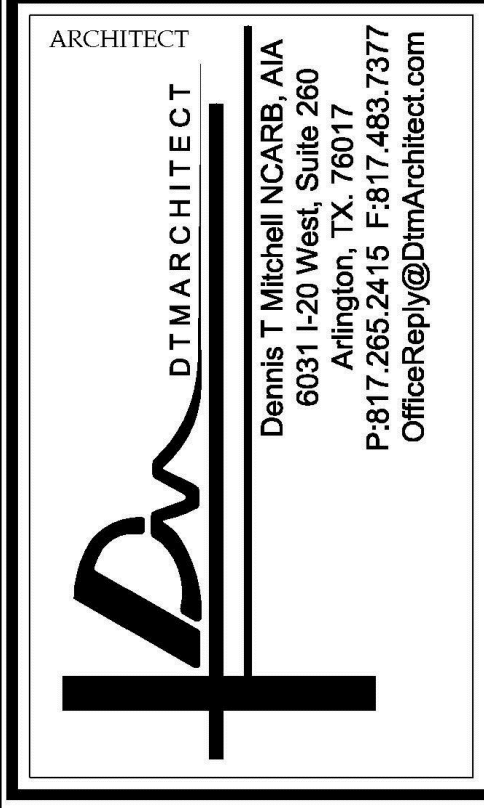
MEP ENGINEER:  
**PSP ASSOCIATES**  
1105 MELLIE DRIVE  
DOWNTOWN, PA 19335

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

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

SIGNAGE DETAILS  
DWG. NO. **A304**  
DRAWN/Author  
SCALAs indicated  
APPROVED BY: AT  
JOB#: 1610-021



Dennis T Mitchell NCARB, AIA  
6031 1-20 West 5th Street  
P.O. Box 260  
P817.266.2415 F:817.483.7377  
OfficeReply@DtmArchitect.com

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

**ENGINEER'S SEAL:**  
  
CHRISTOPHER K. SCHARFF, P.E.  
24GE04505000

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

**MEP ENGINEER:**

**PSP ASSOCIATES**  
1105 MELLIEU 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 BY: BJP APPROVED BY: RJM  
SCALE: SEE PLAN JOB#: 1610-021

TITLE: **GENERAL NOTES**  
DWG. NO. **S100**

# GENERAL NOTES & SPECIFICATIONS

## GENERAL

- GOVERNING CODE: 2015 INTERNATIONAL BUILDING CODE - NJ EDITION
- DESIGN LIVE LOADS, PSF:  
ROOF:  
SEE PLAN FOR MECH. UNITS, DRIFTS AND SPECIAL CONDITIONS IN ADDITION TO MINIMUM DESIGN LOADS.
- SNOW:  
a. GROUND SNOW (P<sub>s</sub>): 20 PSF  
b. FLAT ROOF SNOW (MINIMUM) (P<sub>s</sub>, P<sub>a</sub>): 20 PSF  
c. SNOW EXPOSURE FACTOR (C<sub>e</sub>): 1.0  
d. SNOW IMPORTANCE FACTOR (I<sub>s</sub>): 1.0  
e. THERMAL FACTOR (C<sub>t</sub>): 1.1  
f. WIND:  
a. SPEED (MPH): 123 (ULTIMATE)  
b. RISK CATEGORY: II  
c. IMPORTANCE FACTOR (I<sub>w</sub>): 1.0  
d. EXPOSURE CATEGORY: D  
e. INTERNAL PRESSURE COEFFICIENT: ±0.18  
f. SEISMIC:  
i. SEISMIC USE GROUP: II  
ii. MAPPED SPECTRAL RESPONSE: S<sub>1</sub>: 0.114; S<sub>2</sub>: 0.047  
c. SITE CLASS: D  
d. SPECTRAL RESPONSE COEFF: S<sub>rs</sub>: 0.121; S<sub>rs2</sub>: 0.075  
e. SEISMIC DESIGN CATEGORY: B  
f. BASIC SEISMIC FORCE-RESISTING SYS: H-1  
g. DESIGN BASE SHEAR: 4.3 KIPS  
h. SEISMIC RESPONSE COEFF (C<sub>s</sub>): 0.041  
i. RESPONSE MOD. FACTOR (R): 3.0  
j. ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE

- LEVEL LOADS (PSF):  
ROOF: 20 PSF  
PUBLIC AREAS: 100 PSF  
DESIGN DEAD LOADS (PSF):  
ROOF: 20 PSF (INCLUDES CEILING/ROOFING ENVELOPE)  
REFER TO LATEST EDITION OF ASCE 7 FOR MATERIAL & SYSTEM WEIGHTS FOR DESIGN LOADS NOT LISTED.

- IF STRUCTURAL DRAWINGS ARE USED FOR LAYING OUT COLUMN CENTERS AND WALL LINES, ALL DIMENSIONS SHALL FIRST BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS. SURVEY LAYOUT FOR THE BUILDING SHALL BE CHECKED AND "BE CLOSED" BEFORE WORK IS COMMENCED.
- IF MATERIALS, QUANTITIES, STRENGTHS OR SIZES INDICATED BY THE DRAWINGS OR SPECIFICATIONS ARE NOT IN AGREEMENT WITH THESE NOTES, THE BETTER QUALITY AND/OR GREATER QUANTITY, STRENGTH OR SIZE INDICATED, SPECIFIED OR NOTED SHALL BE PROVIDED.
- SECTIONS AND DETAILS SHOWN, WHILE DRAWN FOR SPECIFIC LOCATIONS, ARE INTENDED TO ESTABLISH THE GENERAL TYPES OF DETAILS TO BE USED THROUGHOUT. IF THE CONTRACTOR WISHES TO USE DETAILS OTHER THAN THOSE SHOWN ON THE DRAWINGS, SUCH DETAILS SHALL BE SUBMITTED FOR APPROVAL AND APPROVAL CONFIRMED, BEFORE SHOP DRAWINGS ARE COMMENCED.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL APPLICABLE CODES AND REGULATIONS. APPROPRIATE SAFETY MEASURES SATISFYING LOCAL AND OSHA REQUIREMENTS SHALL BE PROVIDED.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR HAVING VISITED THE SITE AND HAVING FAMILIARIZED HIMSELF WITH ALL EXISTING CONDITIONS. ANY QUESTIONS OR DISCREPANCIES FOUND WITH REGARD TO THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER.
- STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR WORK THAT HE DOES NOT REVIEW AND/OR WORK NOT COMPLETED IN ACCORDANCE WITH STRUCTURAL ENGINEER'S PLANS AND/OR SPECIFICATIONS.
- THE STRUCTURAL ENGINEER'S REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO FOLLOW THE INTENT OF THE CONTRACT DRAWINGS, UNLESS A WRITTEN REQUEST FOR A CHANGE HAS BEEN PREVIOUSLY SUBMITTED AND APPROVED BY THE STRUCTURAL ENGINEER.
- THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURES AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, AND TIE-DOWNS. PROVIDE ALL SHORING AND BRACING REQUIRED TO STABILIZE AND PROTECT EXISTING AND ADJACENT STRUCTURES AND SYSTEMS DURING COURSE OF DEMOLITION AND CONSTRUCTION OF THE PROJECT.
- THESE DRAWINGS ARE ISSUED FOR PERMIT APPLICATION REVIEW ONLY. DRAWINGS MAY NOT BE USED AS CONSTRUCTION DOCUMENTS UNTIL ALL REVIEW COMMENTS HAVE BEEN INCORPORATED AND A BUILDING PERMIT HAS BEEN ISSUED.

## FOUNDATIONS & EARTHWORK

- FOUNDATIONS SHALL BEAR ON UNDISTURBED VIRGIN SOIL AND/OR COMPACTED FILL MATERIAL PROVIDING A PRESUMPTIVE MINIMUM ALLOWABLE SOIL BEARING CAPACITY OF 3000 PSF. THE SLAB-ON-GRADE DESIGN WAS BASED ON ACHIEVING A WESTGARD MODULUS OF SUBGRADE REACTION, K, EQUAL TO OR BETTER THAN 150 PCF. IN ADDITION, ALL FOUNDATION WALLS BELOW GRADE WERE DESIGNED FOR AN EQUIVALENT FLUID PRESSURE OF 40 PCF. PRIOR TO FOOTING CONCRETE PLACEMENT, THE FOOTING SUBGRADE SHALL BE APPROVED BY A LICENSED GEOTECHNICAL ENGINEER FOR THE PARAMETERS LISTED ABOVE. CONDITIONS THAT DO NOT MEET THESE MINIMUM PARAMETERS WILL RENDER THIS FOUNDATION PLAN VOID. IN WHICH CASE, THE STRUCTURAL ENGINEER SHALL BE CONTACTED TO PROVIDE A NEW FOUNDATION DESIGN.
- ALL REQUIREMENTS FOR SITE PREPARATION AND SOIL COMPACTION SPECIFIED IN THE SOILS REPORT SHALL BE FOLLOWED UNLESS ADDITIONAL MORE STRINGENT REQUIREMENTS ARE SPECIFIED. THE SERVICES OF A GEOTECHNICAL ENGINEER OR APPROVED TESTING AGENCY SHALL BE RENDERED TO VERIFY THAT THE SUBSURFACE SITE CONDITIONS MEET THE DESIGN PARAMETERS NOTED ABOVE. NOTIFY ARCHITECT OR STRUCTURAL ENGINEER IF FOUNDATION CONDITIONS ENCOUNTERED DIFFER FROM SOILS EXPLORATION INFORMATION MADE AVAILABLE TO THE CONTRACTOR. CONDITIONS THAT DO NOT MEET THE MINIMUM STANDARDS CITED ABOVE WILL RENDER THIS FOUNDATION AND SLAB DESIGN VOID, IN WHICH CASE THE STRUCTURAL ENGINEER SHALL BE CONTACTED TO PROVIDE NEW FOUNDATION DESIGN.
- FOUNDATIONS ARE TO BEAR AT LEAST OF THE FOLLOWING REQUIREMENTS:  
a. ELEVATIONS NOTED ON DRAWINGS.  
b. SOIL SUITABLE FOR DESIGN BEARING PRESSURE, AS DETERMINED BY GEOTECHNICAL ENGINEER.  
c. FROST DEPTH (AS DETERMINED BY LOCAL BUILDING DEPARTMENT) WITH RESPECT TO FINISH GRADE.  
d. SLOPE OF 1 VERTICAL TO 2 HORIZONTAL FROM NEAREST ADJACENT FOUNDATION.
- PROTECT ALL EXISTING UNDERGROUND UTILITIES WITHIN WORK AREAS. CONSULT EXISTING MECHANICAL DRAWINGS RELEVANT TO SUCH UTILITIES.
- BACKFILL SHALL BE GRANULAR MATERIAL APPROVED BY GEOTECHNICAL ENGINEER. DEPOSITED AND MACHINE COMPACTED IN 8-INCH MAXIMUM LAYERS. COMPACTION SHALL HAVE A MINIMUM OF 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT, IN ACCORDANCE WITH ASTM D698 (STANDARD PROCTOR) AS VERIFIED BY TESTING LABORATORY.
- EXCAVATE ALL FOUNDATIONS TO REASONABLY EXACT OUTLINE AND DEPTH, AVOIDING OVER-EXCAVATION AND CAVE-IN OF SURROUNDING MATERIALS AFTER SLAB SUBGRADE WORK IS COMPLETE. BOTTOMS OF ALL FOUNDATIONS SHALL BE DRY AND LEVEL PRIOR TO POURING.
- PROTECT SUBGRADE UNDER ALL FOOTINGS AND SLABS ON GRADE FROM FREEZING DURING CONSTRUCTION.
- NO FILL OR BACKFILL SHALL BE PLACED AGAINST RETAINING OR FOUNDATION WALLS UNTIL GROUT OR CONCRETE HAS ATTAINED DESIGN STRENGTH AND SUPPORTING MEMBERS ARE IN PLACE, UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM STRUCTURAL ENGINEER.
- ALL SLABS ON GRADE SHALL BE UNDERLAIN WITH A MINIMUM OF 6-INCHES OF WELL-GRADED CRUSHED STONE (AASHTO #57 OR SIMILAR).

## CONCRETE

- ALL CONCRETE WORK SHALL BE IN CONFORMANCE WITH "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318 AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", ACI 301 LATEST EDITIONS. CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE ACI "MANUAL OF STANDARD PRACTICES FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315, UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
- ALL CONCRETE SHALL BE READY MIX AND DESIGNED IN ACCORDANCE WITH ACI 301. DESIGN MIXES AND ADMIXTURES SHALL BE SUBMITTED FOR APPROVAL.  
a. FOOTINGS AND PILES: 5000 PSI  
b. SLABS ON GRADE: 4000 PSI  
c. ALL EXPOSED CONCRETE: 4000 PSI  
d. ALL OTHER CONCRETE, U.O.N.: 4000 PSI
- ALL CONCRETE SHALL HAVE A SLUMP OF 4" (PLUS OR MINUS 1"), 2 TO 4 PERCENT AIR ENTRAINMENT, AND A MAX. WATER/CEMENT RATIO OF 0.55.
- PROVIDE 4-G PERCENT AIR ENTRAINMENT FOR ALL EXPOSED CONCRETE.
- SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL INCLUDING FULL INFORMATION FOR PLACING AND FINISHING, WITHOUT REFERENCE TO THE DESIGN DRAWINGS.
- ALL CONCRETE REINFORCING BARS SHALL FROM BILLET STEEL IN ACCORDANCE WITH ASTM A-615 GRADE 60. ALL WELDED WIRE FABRIC SHALL BE ASTM A-385. W/WF SHALL BE LAPPED AT LEAST 8 INCHES AND CONTAIN AT LEAST ONE CROSS WIRE WITHIN THE 8 INCHES.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:  
a. 3" CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO WEATHER  
b. 2" CONCRETE EXPOSED TO EARTH OR WEATHER, #6 THROUGH #18 BARS  
c. 1 1/2" CONCRETE EXPOSED TO EARTH OR WEATHER, #5 BAR AND SMALLER  
d. 1 1/2" CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH - FOR THE PRIMARY REINFORCEMENT, TIES, STRIPUPS, AND SPIRALS IN BEAMS AND COLUMNS.  
e. 3/4" CONCRETE NOT EXPOSED TO WEATHER NOR IN CONTACT WITH EARTH - FOR SLABS, WALLS, AND JOISTS, #1 BAR AND SMALLER.
- PROVIDE CORNER BARS TO MATCH SIZE AND SPACING OF HORIZONTAL REINFORCING AT CORNERS OF ALL CONCRETE WALL, FOOTING AND GRADE BEAM CONSTRUCTION. CORNER BARS SHALL LAP HORIZONTAL REINFORCING WITH A MINIMUM OF 48 BAR DIAMETERS, U.O.N.
- CONTRACTOR SHALL PROVIDE SPACERS, CHAIRS, BOLSTERS, ETC. AS NECESSARY TO SUPPORT REINFORCING STEEL. SUPPORT ITEMS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BEFORE WHICH ARE PLASTIC TIPPED OR STAINLESS STEEL.
- HOOKS SHALL BE PROVIDED AT DISCONTINUOUS ENDS OF ALL TOP BARS OF BEAMS AND AT SLABS EDGES.
- MINIMUM LAP SPACES ON ALL REINFORCING BARS SHALL BE 48 BAR DIAMETERS, EXCEPT WHERE OTHERWISE NOTED ON THE DRAWINGS. FOR BEAMS AND ELEVATED SLABS, LAP BOTTOM STEEL AT THE SUPPORT AND TOP STEEL OVER THE MIDSPAN, UNLESS OTHERWISE NOTED.
- REFER TO TYPICAL DETAILS FOR SPECIFICATIONS ON CONTROL JOINTS, CONSTRUCTION JOINTS, AND EXPANSION JOINTS.
- HORIZONTAL KEYWAYS IN CONSTRUCTION JOINTS SHALL BE PROVIDED IN BEAMS, SUPPORTED SLABS, AND WALL FOOTINGS WITH A DEPTH OF 1 1/2" AND HEIGHT EQUAL TO ONE-THIRD OF THE MEMBER'S DEPTH. REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS UNLESS OTHERWISE NOTED ON THE DRAWINGS. CONSTRUCTION JOINTS MAY BE USED ONLY AT LOCATIONS SHOWN ON THE DRAWINGS OR AT OTHER LOCATIONS APPROVED BY THE STRUCTURAL ENGINEER.
- ALL CONCRETE, INCLUDING FOUNDATION WORK, IS TO BE VIBRATED. VIBRATORS SHALL NOT BE USED TO TRANSPORT CONCRETE.
- CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 304, LATEST EDITION. CONCRETE SHALL NOT BE SUBJECT TO DROPS IN EXCESS OF 3 FEET.
- CONDUITS, PIPES AND SLEEVES SHALL NOT BE LARGER THAN 1/2 OVERALL THICKNESS OF SLAB, WALL OR BEAM IN WHICH THEY ARE EMBEDDED UNLESS OTHERWISE NOTED ON DRAWING OR APPROVED BY STRUCTURAL ENGINEER. INSERTS SHALL NOT BE PLACED CLOSER THAN 3 DIAMETERS OR WIDTHS ON CENTER. REFER TO ACI 318 AND PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. ALL INSERTS ARE TO BE REVIEWED BY ENGINEER AND APPROVED PRIOR TO INSTALLATION AND PLACEMENT OF CONCRETE.
- CONTRACTOR SHALL REVIEW ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS, INSERTS, EMBEDDED ITEMS, SLEEVES, SLAB DEPRESSIONS, SLOPES, ETC. AS REQUIRED BY OTHER TRADES. THESE ITEMS SHALL BE FURNISHED AND INSTALLED PRIOR TO PLACEMENT OF CONCRETE.
- ALL ANCHOR BOLTS SHALL BE IN PLACE PRIOR TO POURING CONCRETE.
- CONTRACTOR SHALL PROVIDE 3/4 INCH CHAMFER ON ALL EXPOSED CORNERS OF COLUMNS, BEAMS, AND WALLS UNLESS OTHERWISE INDICATED ON THE ARCHITECTURAL DRAWINGS.
- SLABS ON GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL SLAB DETAILS INDICATED ON THE CONSTRUCTION DOCUMENTS.
- PRIOR TO POURING FLOOR SLABS, REFER TO THE CONSTRUCTION DOCUMENTS FOR ADDITIONAL WORK TO BE COMPLETED IN OR BELOW THE FLOOR.
- AFTER ALL UNDER-SLAB WORK HAS BEEN INSTALLED, CONTRACTOR SHALL FIELD CONFIRM THE DENSITY OF THE CONCRETE. ANY SOFT, PUMPING OR UNSUBSTANTIAL OR UNSUITABLE SUBGRADE SOIL THAT IS DETECTED SHALL BE UNDERCUT AND REPLACED WITH SUITABLE FILL PLACED AND COMPACTED AS DIRECTED BY GEOTECHNICAL ENGINEER. ANY AREAS WHERE THE COMPACTED SUB-GRADE IS DECREASED SHALL BE FILLED WITH SUITABLE MATERIAL AND BE RECOMPACTED.
- PROVIDE 1/8 INCH PREFORMED EXPANSION JOINTS IN SLABS WHERE INDICATED. REFER TO TYPICAL SLAB JOINT DETAILS.
- COLUMNS SHALL BE ISOLATED FROM THE FLOOR SLAB WITH FULL CONSTRUCTION JOINTS AND COMPRESSIVE MATERIAL. SLAB BLOCK-OUTS AROUND COLUMNS SHALL BE DIAMOND OR CIRCULAR IN SHAPE, UNLESS NOTED OTHERWISE.
- RAMPS, SLOPING SLABS, STEPS, AND SLABS EXPOSED TO WEATHER SHALL RECEIVE A LIGHT BROOMED FINISH, U.O.N.
- LOCAL WELDED WIRE FABRIC 1-1/2 INCHES BELOW TOP OF SLAB.
- PROVIDE SPECIAL INSPECTIONS FOR CONCRETE CONSTRUCTION PER THE REQUIREMENTS OF IBC TABLE 1704.4.

## MASONRY

- ALL WORK FOR MASONRY INCLUDING COMPOSITION, QUALITY AND PLACEMENT OF MATERIALS, QUALITY ASSURANCE FOR MATERIALS AND CONSTRUCTION OF MASONRY SHALL COMPLY WITH LATEST EDITION OF "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES ACI 530-08/ASCE 5-08/TMS 402-08" AND THE "SPECIFICATIONS FOR MASONRY STRUCTURES ACI 530-1.08/ASCE 6-08/TMS 602-08."
- HOLLOW LOAD BEARING CMU UNITS SHALL CONFORM TO ASTM C90, WITH A MINIMUM NET COMPRESSIVE STRENGTH OF 1,300 PSI (F<sub>m</sub> = 1,500 PSI), UNLESS OTHERWISE NOTED ON PLANS.
- MORTAR TYPE SHALL BE PORTLAND CEMENT/TYPE X CONFORMING TO ASTM C270, U.O.N. ALL MORTAR FOR USE WITH IVARY MASONRY UNITS SHALL BE TYPE M CONFORMING TO ASTM C270, VERIFIED FROM FIELD-OBTAINED TEST CURS. MASONRY CEMENT SHALL NOT BE USED.
- ALL GROUT SHALL BE A DESIGN MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI SMALL AGGREGATE CONCRETE (3/8") WITH A MAXIMUM SLUMP OF 8-INCHES MEETING THE REQUIREMENTS OF ASTM C476.
- ALL MORTAR MIXES, GROUT MIXES AND ADMIXTURE SHALL BE SUBMITTED FOR APPROVAL.
- ALL CMU SHALL BE LAID IN A FULL BED OF MORTAR.
- ALL BOND BEAMS ARE TO BE CONTINUOUS FOR ENTIRE LENGTH OF WALL UNLESS OTHERWISE NOTED.
- ALL OPENINGS SHALL HAVE TWO LINES OF #5 REBAR, 8 FEET BEYOND FACE OF OPENING. ALL WALL INTERSECTIONS SHALL HAVE CORNER BARS MATCHING SIZE AND SPACING OF HORIZONTAL REINFORCEMENT. PROVIDE 1-#5 BAR GROUTED SOLID FULL HEIGHT AT CORNERS OF ALL EXTERIOR MASONRY WALL CONSTRUCTION.
- VERTICAL REINFORCEMENT FOR CMU SHALL BE HELD IN POSITION AT THE TOP AND BOTTOM AND AT A MAXIMUM SPACING OF 8' 0". REINFORCEMENT SHALL BE PLACED IN THE CENTER OF THE MASONRY CELL TYPICAL UNLESS OTHERWISE NOTED. VERTICAL REINFORCEMENT SHALL BE AS NOTED ON THE DRAWINGS WITH CELLS GROUTED SOLID.
- ALL REINFORCEMENT SHALL CONFORM TO ASTM A615 GRADE 60 SPECIFICATION. REINFORCING STEEL SHALL BE LAPPED MINIMUM 48 BAR DIAMETERS.
- HORIZONTAL WALL REINFORCEMENT SHALL BE STANDARD TRUSS TYPE HORIZONTAL JOINT REINFORCEMENT, 9 GA MIN. AT 18" ON CENTER VERTICAL ALL MASONRY, U.O.N. SPACE HORIZONTAL JOINT REINFORCEMENT AT 8 INCHES ON CENTER IN ALL PARAPETS.
- SPLICED WIRE REINFORCEMENT SHALL BE LAPPED AT LEAST 8" AND CONTAIN AT LEAST ONE CROSS WIRE OF EACH PIECE OF REINFORCEMENT WITHIN THE 8". PROVIDE SHOP FABRICATED T AND Y SHAPED PIECES AT INTERSECTIONS AND CORNERS.
- HIGH LIFT GROUTING IS ALLOWED; FOR GROUTING PROCEDURES, SEE NCA "TEK" SERIES IG TO 8 FEET MAXIMUM HEIGHT (LITS RECOMMENDED). PUMPING VIA GROUT PUMP IS PERMITTED; HOWEVER, CONCRETE DELIVERY MUST BE SCHEDULED TO PERMIT PLACEMENT OF ALL MATERIAL DELIVERED WITHIN ONE HOUR. MAXIMUM HALF TRUCK CAPACITY LOADS ARE RECOMMENDED (1 HOUR ON SITE MAXIMUM PERMITTED WAITING TIME).
- REFER TO PLANS FOR SPECIFICATIONS OF LINTELS FOR ALL MASONRY OPENINGS OR RECESSES. COORDINATE ALL OPENING REQUIREMENTS WITH ALL TRADES, DRAWING REQUIREMENTS AND/OR APPROVED MECHANICAL CUTS AND SHOP DRAWINGS.
- ALL LINTELS SHALL BEAR ON WALL AT EACH END A MINIMUM DISTANCE OF 8-INCHES FOR SPANS UP TO 8'-0". UNLESS NOTED OTHERWISE.
- ALL BRICK VENEER MASONRY UNITS SHALL BE GRADE SW WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AND BONDED TOGETHER WITH TYPE N MORTAR, U.O.N. ANCHORED MASONRY VENEER SHALL COMPLY WITH THE PROVISIONS OF IBC SECTION 1405.6 THRU 1405.9 AND SECTIONS 6.1 AND 6.2 OF TMS 402/ACI 530/ASCE 5.
- PROVIDE SPECIAL INSPECTIONS FOR MASONRY CONSTRUCTION PER THE REQUIREMENTS OF IBC SECTION 1705.4.

## STRUCTURAL STEEL

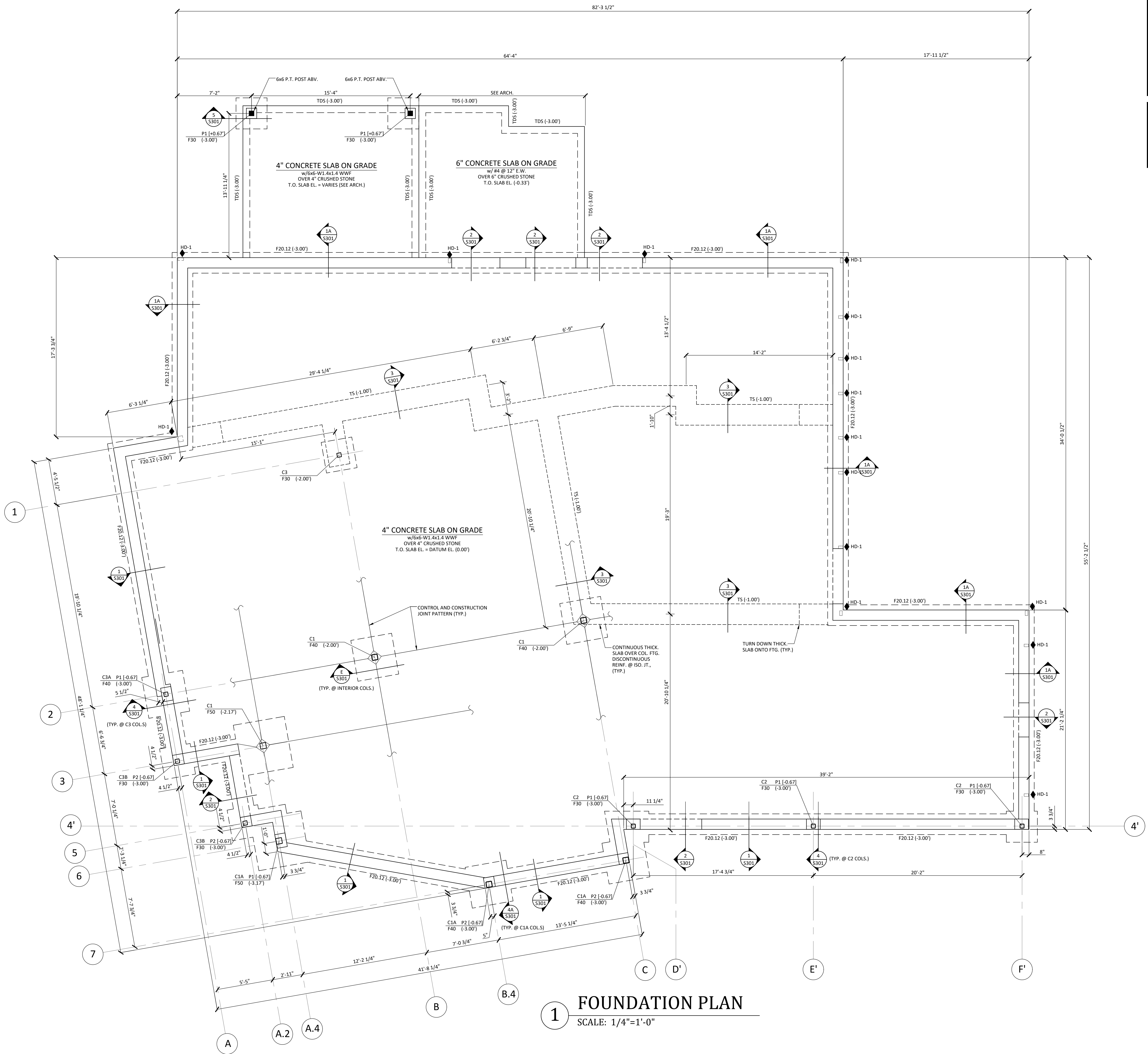
- ALL STRUCTURAL STEEL WORK SHALL BE IN CONFORMANCE WITH "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AISC 360-05 (13TH EDITION).
- MATERIALS STANDARDS (UNLESS NOTED OTHERWISE ON DRAWINGS OR IN PROJECT SPECIFICATIONS):  
a. ALL STEEL WF BEAMS SHALL BE ASTM-A992, 50,000 PSI YIELD.  
b. ALL ANGLES, CHANNELS AND PLATES SHALL BE ASTM-A36, 36,000 PSI YIELD.  
c. PIPE SHAPES: ASTM A53, 35,000 PSI OR ASTM-A501, 36,000 PSI YIELD.  
d. HSS SHAPES: ASTM-A500, GRADE B, 46,000 PSI YIELD.  
e. ALL OTHER SHAPES SHALL BE ASTM A36, 36,000 PSI YIELD.  
f. ANCHOR BOLTS & RODS: ASTM-F1554, GRADE 55, UNLESS OTHERWISE NOTED.
- SHOP CONNECTIONS SHALL BE HIGH-STRENGTH BOLTED OR WELDED. MINIMUM BOLT SHALL BE 3/4" DIAMETER, ASTM A325N, UNO. MINIMUM SIZE WELD, UNLESS OTHERWISE NOTED, IS TO BE 3/16 INCH FULL T. EPOXY ANCHORS: ELECTRODES SHALL BE SUITED TO STEEL GRADE.
- FIELD CONNECTIONS SHALL BE HIGH-STRENGTH BOLTED, 3/4" DIAMETER, ASTM A325N, UNO. BEAM AND SHEAR CONNECTIONS WITH HIGH-STRENGTH BOLTS ARE TO BE BEARING TYPE, UNLESS NOTED OTHERWISE. WHERE FIELD WELDING IS NOTED, IT SHOULD BE PERFORMED BY CERTIFIED WELDERS ONLY. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY, AWS D1.1.
- BOLTS AND BOLTED CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" AS APPROVED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS.
- ALL CONNECTIONS SHALL BE FULL DEPTH CONNECTIONS AS FOLLOWS:  
a. BEAMS TO HSS COLUMNS: 3/8" THROUGH PLATE. BOLTS SHALL BE AT 3" O.C. VERT., U.O.N.  
b. BEAM TO GIRDER: FULL DEPTH, SINGLE ANGLE SHEAR CONNECTION TO BE SUBMITTED FOR REVIEW AND APPROVAL. BOLTS SHALL BE AT 3" O.C. VERT., U.O.N.  
c. ALL CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM SERVICE LOAD REACTION OF 20 KIPS.
- FIELD CONNECTIONS BY CUTTING OR BURNING ARE PROHIBITED, EXCEPT BY SPECIFIC APPROVAL OF THE ENGINEER.
- STEEL FRAMING SHALL BE PROPERLY BRACED UNTIL AFTER FINAL CONNECTIONS ARE MADE.
- STRUCTURAL AND MISCELLANEOUS STEEL FABRICATORS SHALL BE RESPONSIBLE FOR OBTAINING AND VERIFYING ALL FIELD DIMENSIONS NECESSARY FOR THE COMPLETION OF THEIR WORK.
- SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. FABRICATION SHALL NOT COMMENCE UNTIL SHOP DRAWINGS ARE APPROVED. IF THE FABRICATOR PROPOSES USING DETAILS OTHER THAN THOSE SHOWN, SUCH DETAILS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BEFORE DETAILED SHOP DRAWINGS HAVE BEEN SUBMITTED. COORDINATE ALL DETAILING TO INCLUDE STRUCTURAL STEEL INFORMATION SHOWN ON THE ARCHITECTURAL DRAWINGS.
- STEEL SHAPES, PLATES, ETC. WHICH ARE EXPOSED TO WEATHER SHALL BE GALVANIZED (OR PAINTED WITH A RUST INHIBITING EPOXY PAINT SYSTEM).
- ALL STEEL BEAMS SHALL BE THOROUGHLY CLEANED IN ACCORDANCE WITH SSPC-SP2 OR BETTER.
- PROVIDE ONE COAT OF STANDARD SHOP PAINT ON ALL UNGALVANIZED PIECES EXCEPT AT AREAS TO BE FIELD WELDED.
- TOUCH UP FIELD WELDS AND ANY DAMAGED AREAS OF PAINT IN FIELD AFTER WELDING WITH A ZINC RICH PAINT.
- ALL STEEL BEAMS SHALL BE FABRICATED AND ERECTED WITH THE NATURAL CAMBER (WITHIN THE MILL TOLERANCE) LOCATED ABOVE THE HORIZONTAL CENTERLINE BETWEEN THE END CONNECTIONS.

## WOOD FRAMING

- WOOD CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING BUILDING CODES AND STANDARDS:  
A. AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC): STANDARDS MANUAL  
B. AMERICAN FOREST & PAPER ASSOCIATION (AFPA): NATIONAL DESIGN STANDARDS FOR WOOD CONSTRUCTION  
C. SOUTHERN PINE INSPECTION BUREAU: STANDARD GRADING RULES FOR SOUTHERN PINE LUMBER.  
D. TRUSS PLATE INSTITUTE (TPI): DESIGN SPECIFICATIONS FOR LIGHT METAL CONNECTED WOOD TRUSSES.  
E. AMERICAN PLYWOOD ASSOCIATION (APA): GUIDE TO PLYWOOD FOR FLOORS, PLYWOOD SHEATHING FOR WALLS & ROOFS.  
F. AMERICAN WOOD PRESERVERS ASSOCIATION STANDARDS.
- ALL STRUCTURAL LUMBER SHALL BE STAMPED, BY AN APPROVED AGENCY, IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION'S "CONSTRUCTION MANUAL".
- MOISTURE CONTENT OF ALL STRUCTURAL LUMBER SHALL BE LESS THAN 19% AS VERIFIED BY STAMP.
- ALL STRUCTURAL LUMBER SHALL BE AS FOLLOWS:  
A. RAFTERS, JOISTS, HEADERS, BEAMS: HEK-FIR #2, OR BETTER.  
B. 2X12 ROOF RAFTERS: DOUGLAS FIR-LARCH #1 OR BETTER.  
C. WALL STUDS, POSTS, & PLATES: HEK-FIR #2, OR BETTER.  
5. INSTALL PRESSURE TREATED OR PRESERVATIVE TREATED LUMBER WHERE LUMBER IS IN CONTACT WITH CONCRETE OR IS EXPOSED TO WEATHER.  
6. PROVIDE SOLID BLOCKING UNDERNEATH ALL POINT LOADS, CONTINUOUS TO FOUNDATION OR BEARING. BLOCKING SHALL MATCH SIZE OF POST ABOVE.  
7. ALL CONNECTIONS SHALL CONFORM TO THE FASTENING SCHEDULE IN IRC CODE, TABLE 2304.9.1, UNLESS NOTED OTHERWISE ON THE STRUCTURAL PLANS. ALL BOLTED CONNECTIONS SHALL BE MINIMUM ASTM-A307.
- PREFABRICATED METAL HANGERS AND CONNECTORS SHALL BE INSTALLED AS SPECIFIED ON STRUCTURAL PLANS OR SHOP DRAWINGS. NAILING SHALL CONFORM TO MANUFACTURER'S PUBLISHED TABLES TO PROVIDE MAXIMUM HANGER CAPACITY, UNLESS NOTED OTHERWISE ON STRUCTURAL PLANS. NAILS SHALL BE FULLY DRIVEN IN ALL HOLES IN THE ANCHOR. CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE, LIMITED STEEL PRODUCTS (LSP), OR APPROVED EQUAL.
- HANGERS AND METAL CONNECTORS SHALL BE ZINC PLATED, UNLESS EXPOSED TO WEATHER. EXPOSED HARDWARE SHALL BE HOT DIPPED GALVANIZED OR COATED AS REQUIRED FOR CONTACT WITH PRESERVATIVE TREATED WOOD.
- ALL MEMBERS SHALL HAVE LATERAL SUPPORT SUPPLIED AT ALL BEARING POINTS AS WELL AS CONTINUOUSLY ALONG THE COMPRESSION FACE.
- ALL HEADERS SHALL BE SUPPORTED BY (1) 2X JACK STUD AND (1) 2X KING STUD, MINIMUM. THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE NUMBER OF JACK REQUIRED, U.O.N.
- FACE NAIL MULTI-PLY 2X BEAMS AND HEADERS WITH 2 ROWS OF 12D NAILS AT 12" O.C. STAGGERED. APPLY NAILING FROM BOTH FACES AT 3-PLY OR MORE CONDITIONS.
- ALL ENGINEERED LUMBER SHALL CONFORM TO THE FOLLOWING MINIMUM DESIGN PROPERTIES:  
E = 1,900,000 PSI F<sub>x</sub> = 2,600 PSI F<sub>y</sub> = 285 PSI F<sub>z</sub> = 2,510 PSI F<sub>v</sub> = 750 PSI  
E = 1,900,000 PSI F<sub>x</sub> = 2,600 PSI F<sub>y</sub> = 285 PSI F<sub>z</sub> = 2,510 PSI F<sub>v</sub> = 750 PSI
- ROOF SHEATHING SHALL BE 5/8" NOMINAL APA RATED SHEATHING 4020E, EXPOSURE 1. FASTEN SHEATHING TO FRAMING MEMBERS WITH 80 COMMON NAILS AT 12" ON CENTER IN CENTER AND AT 6" ON CENTER ALONG THE PANEL EDGES. PROVIDE "H" STYLE CLIPS ALONG UNSUPPORTED EDGES.
- WALL SHEATHING SHALL BE 7/16" APA RATED SHEATHING 24/16, EXPOSURE 1.

**CKS STRUCTURES**  
STRUCTURAL ENGINEERS  
CKS STRUCTURES, INC.  
280 N. PROVIDENCE RD., SUITE 105 MEDIA, PA 19063  
PHONE: 484-444-2329 FAX: 484-444-2331

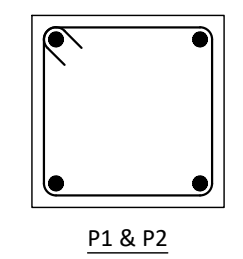
CKS PROJECT NO.: 138.18.005  
  
**ISSUE FOR BID**  
2-12-20



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

**HOLDDOWN SPECIFICATIONS**  
 - ALL HOLDDOWNS ARE TO BE MANUFACTURED BY SIMPSON STRONGTIE. ALTERNATES ARE TO BE SUBMITTED FOR APPROVAL.  
 - 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"x13"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"

**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  
 2-12-20

ARCHITECT  
**D.T. MARCHETT C.T.**  
 Dennis T. Mitchell NCARB, AIA  
 601 N. 2nd Street, Suite 260  
 Philadelphia, PA 19106  
 P: 817.266.2415 F: 817.483.7377  
 OfficeReply@DtMarchett.com

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

**ENGINEER'S SEAL:**  
 CHRISTOPHER K. SCHARFF, P.E.  
 24GE04505000

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

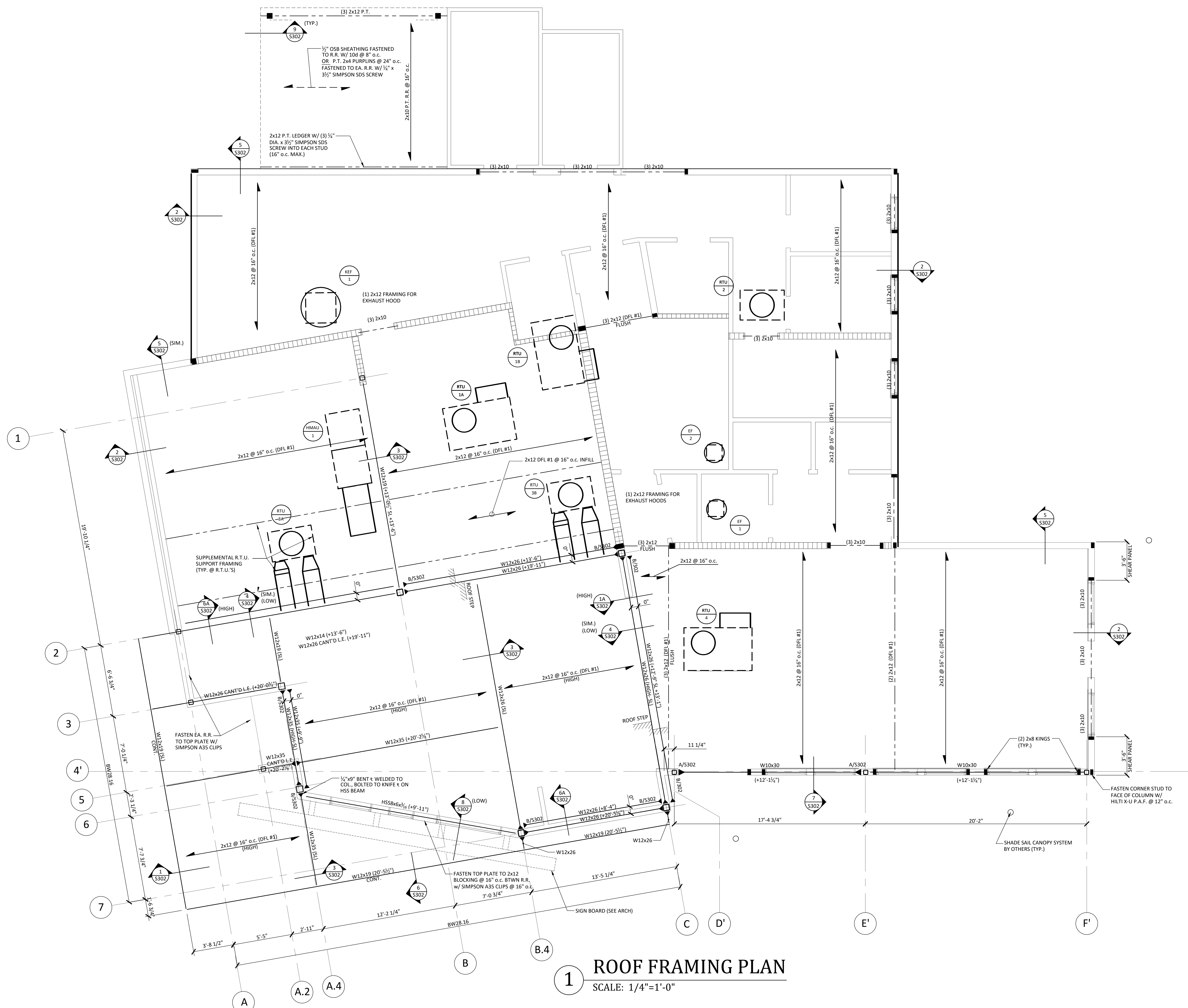
**MEP ENGINEER:**  
**PSP ASSOCIATES**  
 1105 MELLIER DRIVE  
 DOWNTOWN, PA 19335

**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

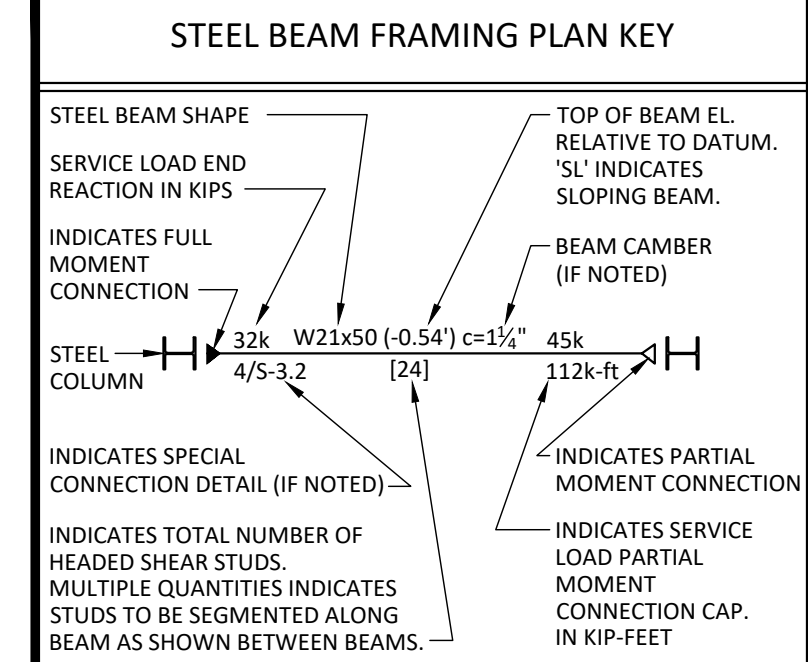
TITLE: **FOUNDATION PLAN**  
 DWG. NO. **S101**  
 DRAWN BY: BJP APPROVED BY: RIM  
 SCALE: SEE PLAN JOB#: 1610-021



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

BEARING WALL SCHEDULE				
LOCATION	SIZE	SPECIES	GRADE	SPACING
EXTERIOR	2x6	SPF	No. 2	16" o.c.
INT. BRG.	2x6	SPF	No. 2	16" o.c.
INT. NON-BRG.	2x4	SPF	STUD	16" o.c.
BW28.16	2x8	SPF	No. 2	16" o.c.

NOTES:  
 • WALLS MARKED "BW" SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS. SEE PLANS FOR LOCATIONS.  
 • SPECIFIED SIZES ARE THE MINIMUM REQUIRED. COORDINATE SIZES WITH ARCHITECTURAL DRAWINGS AS REQUIRED.  
 • PROVIDE SOLID BLOCKING @ EXTERIOR BEARING WALLS.



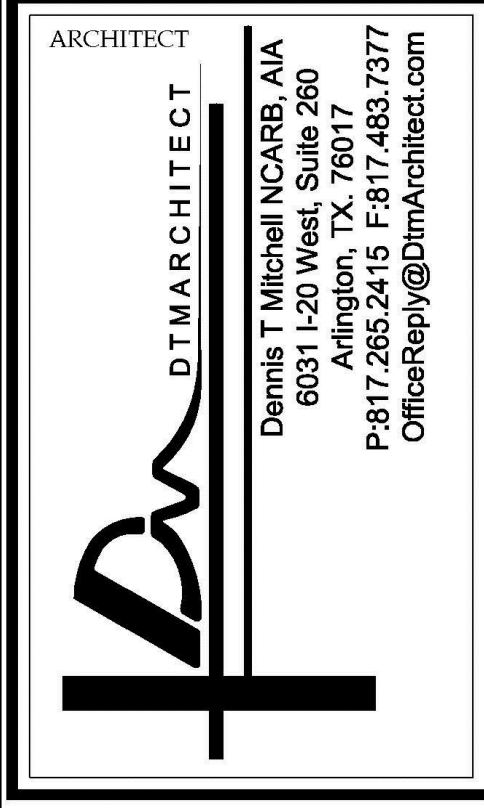
- FRAMING NOTES**
- TOP OF SLAB ELEV. = DATUM ELEV. (0.00')
  - REFER TO BEARING WALL SCHEDULE FOR STUD SIZE, GRADE & SPACING AT ALL EXTERIOR & INTERIOR BEARING WALLS.
  - (W2) INDICATES PLYWOOD/OSB SHEAR WALL. REFER TO EXTERIOR/SHEAR WALL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - ALL HEADERS, BEAMS, & OTHER STRUCTURAL MEMBERS SHALL BE HEM-FIR #2 LUMBER, OR BETTER.
  - ALL 2x12 ROOF RAFTERS SHALL BE DOUGLAS FIR-LARCH No. 1 MINIMUM (F<sub>v</sub> = 1000 psi, E = 1,700,000 psi)
  - ALL HEADERS SHALL BE SUPPORTED BY (1)2x JACK STUD & (1)2x KING STUD, MINIMUM, U.O.N.
  - ROOF SHEATHING SHALL BE 5/8" PLYWOOD A.P.A. RATED SHEATHING 32/76, EXPOSURE 1. FASTEN SHEATHING TO FRAMING MEMBERS W/ 8d COMMON NAILS @ 6" O.C. @ PANEL EDGES & @ 12" O.C. @ INTERMEDIATE SUPPORTS.
  - PROVIDE (1) SIMPSON H2.5A CLIP @ EA. ROOF RAFTER BEARING LOCATION AND (2) H2.5A CLIPS @ BEARING LOCATIONS OF ALL ROOF BEAMS AND HEADERS, U.O.N.
  - ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE OR MASONRY FOUNDATION SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2.
  - BUILDER TO VERIFY CORROSION-RESISTANCE COMPATIBILITY OF HARDWARE & FASTENERS IN CONTACT W/ PRESERVATIVE TREATED WOOD. CONTACT LUMBER & HARDWARE SUPPLIERS TO COORDINATE.
  - INDICATES BUILT-UP 2x POST IN WALL. PROVIDE MINIMUM OF (2) STUDS, U.O.N. SIZE AND GRADE OF STUDS SHALL BE IN ACCORDANCE WITH BEARING WALL SCHEDULE.

**EXTERIOR WALL & SHEAR WALL SHEATHING SPECIFICATIONS**

SYMBOL	SHEAR PANEL SPEC	FASTENER	SPACING	NOTES
(W2)	5/8" PLYWOOD OR OSB	8d NAILS	4" o.c. @ ALL EDGES	BLOCK EDGES

NOTES:  
 • EXTERIOR WALL SHEATHING:  
 5/8" PLYWOOD OR OSB FASTENED W/ 8d NAILS @ 4" o.c. AT ALL PANEL EDGES AND 12" o.c. AT CENTER.  
 • PROVIDE HORIZ. 2x SOLID BLOCKING AT ALL UNSUPPORTED PANEL EDGES.  
 • ALL STRUCTURAL PANELS ARE TO BE DIRECTLY APPLIED TO STUD FRAMING.  
 • SEE ARCHITECTURAL DRAWINGS FOR ADD'L WALL CONSTRUCTION REQUIREMENTS.

- LEGEND**
- [---] INDICATES INTERIOR BEARING WALL
  - [---] INDICATES BEAM / HEADER
  - [---] INDICATES METAL HANGER
  - [---] INDICATES EXTENT OF SHEAR WALL



ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

**ENGINEER'S SEAL:**  
 CHRISTOPHER K. SCHARFF, P.E.  
 24GE04505000

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

**MEP ENGINEER:**  
**PSP ASSOCIATES**  
 1105 MELLIN 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

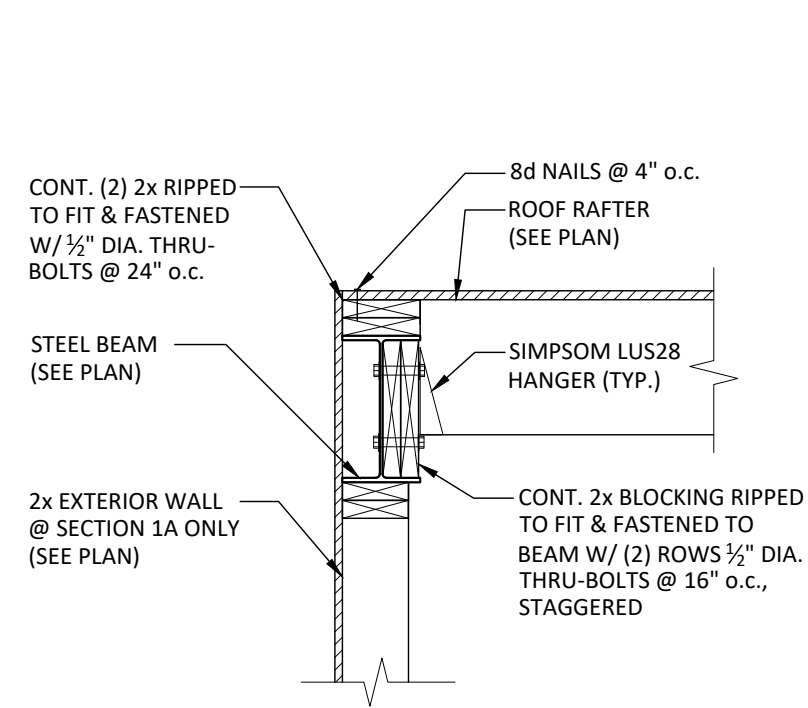
**ROOF FRAMING PLAN**  
 DRAWN BY: B.J.P. APPROVED BY: R.I.M. SCALE: SEE PLAN JOB#: 1610-021

**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

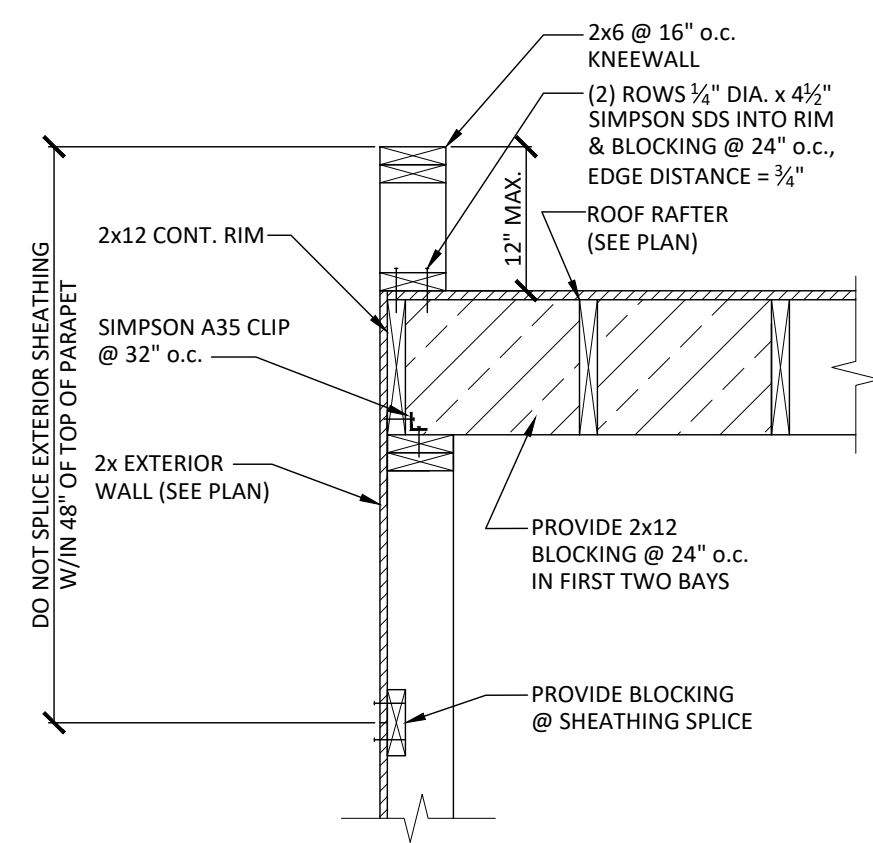
**ADDENDUM #2**  
 2-12-20

TITLE: **ROOF FRAMING PLAN**  
 DWG. NO. **S102**

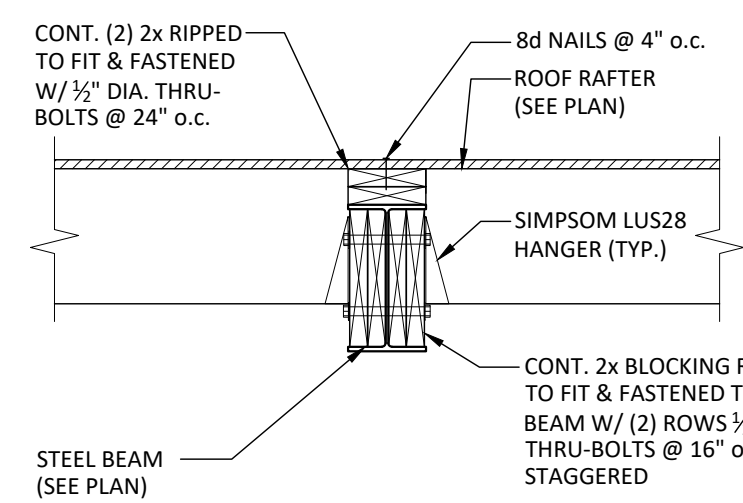




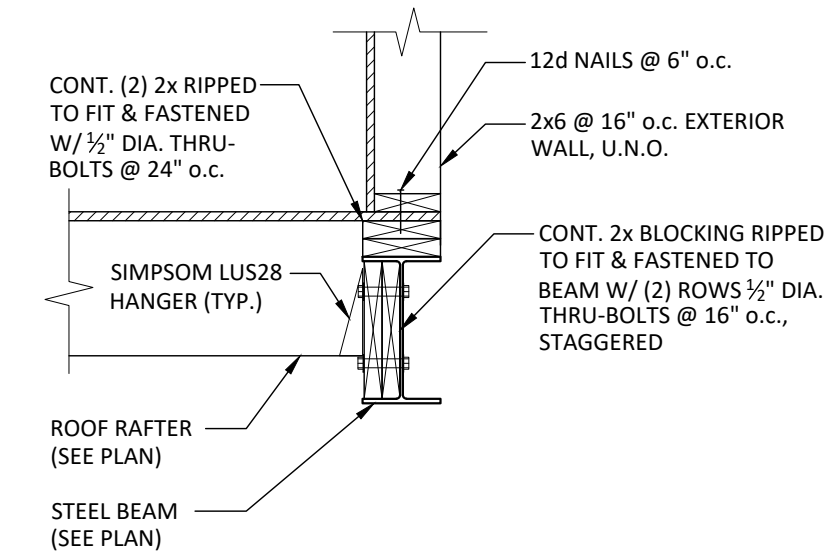
1 SECTION  
SCALE: 3/4"=1'-0"



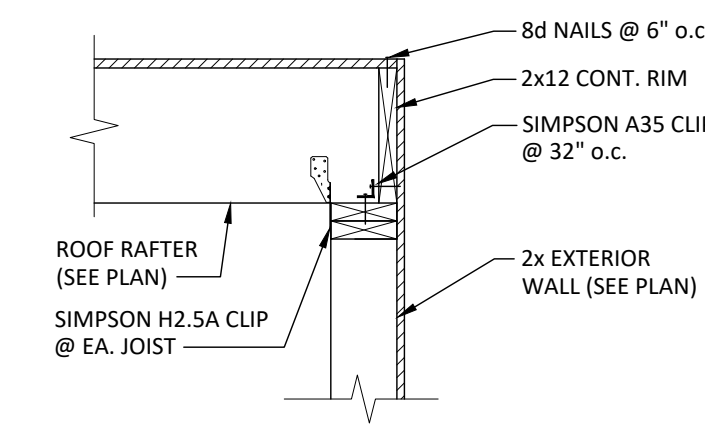
2 SECTION  
SCALE: 3/4"=1'-0"



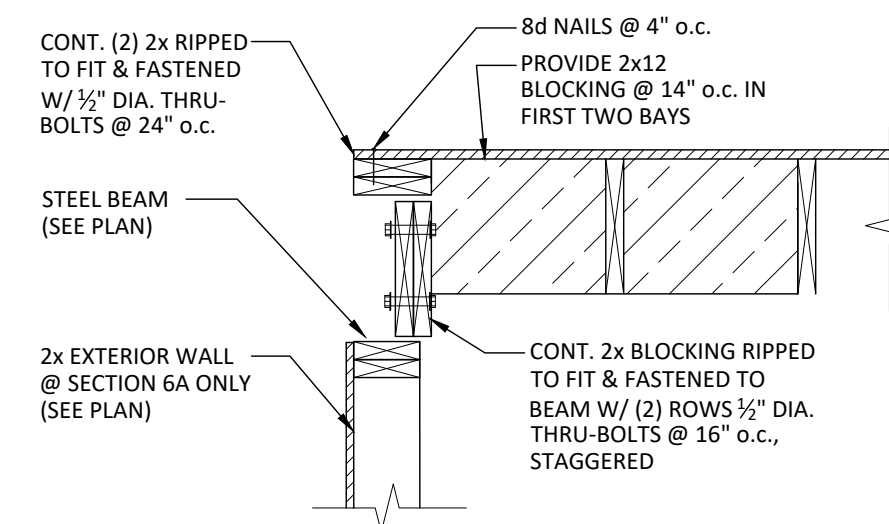
3 SECTION  
SCALE: 3/4"=1'-0"



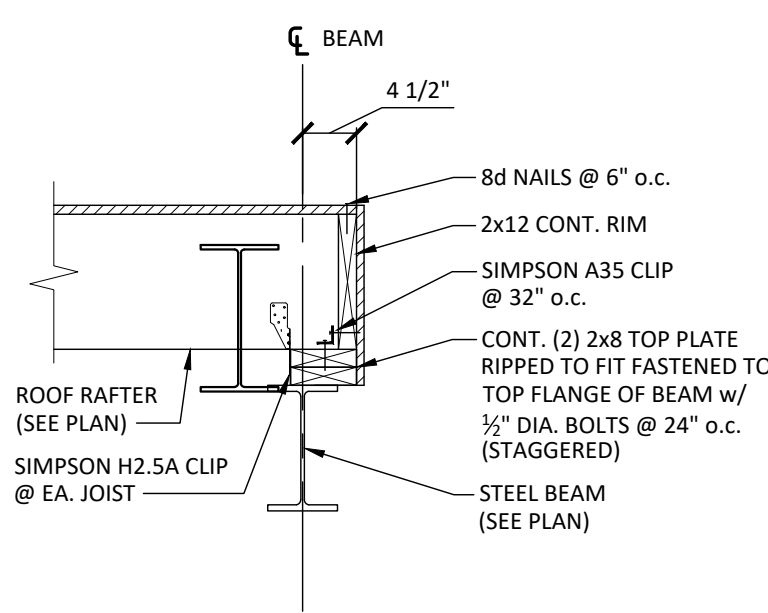
4 SECTION  
SCALE: 3/4"=1'-0"



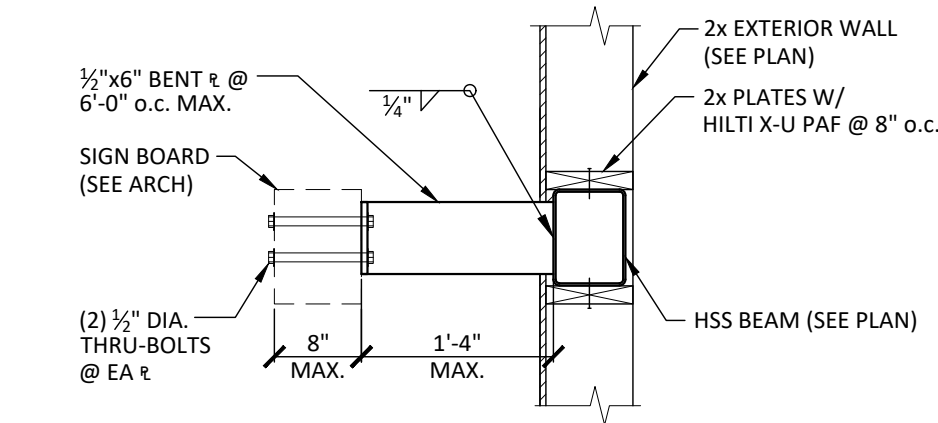
5 SECTION  
SCALE: 3/4"=1'-0"



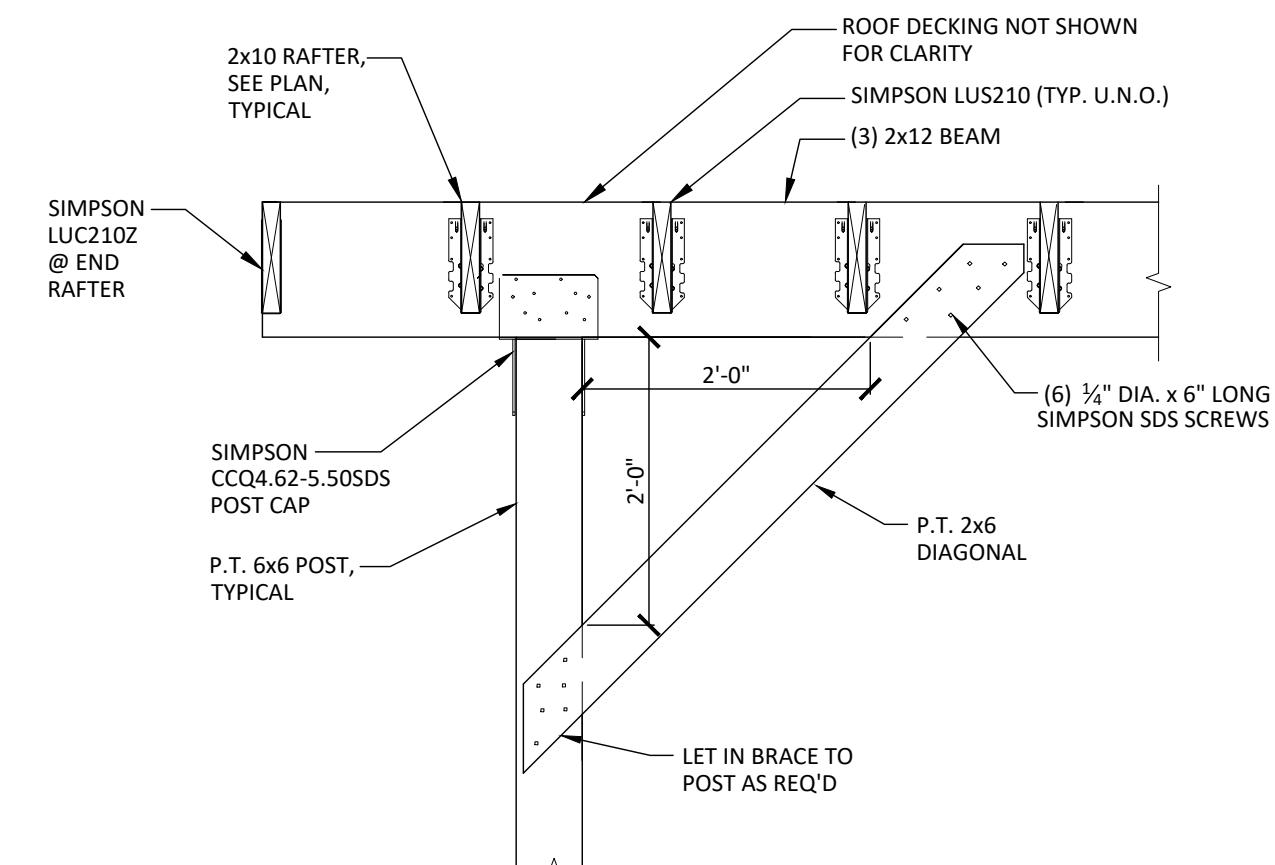
6A SECTION  
SCALE: 3/4"=1'-0"



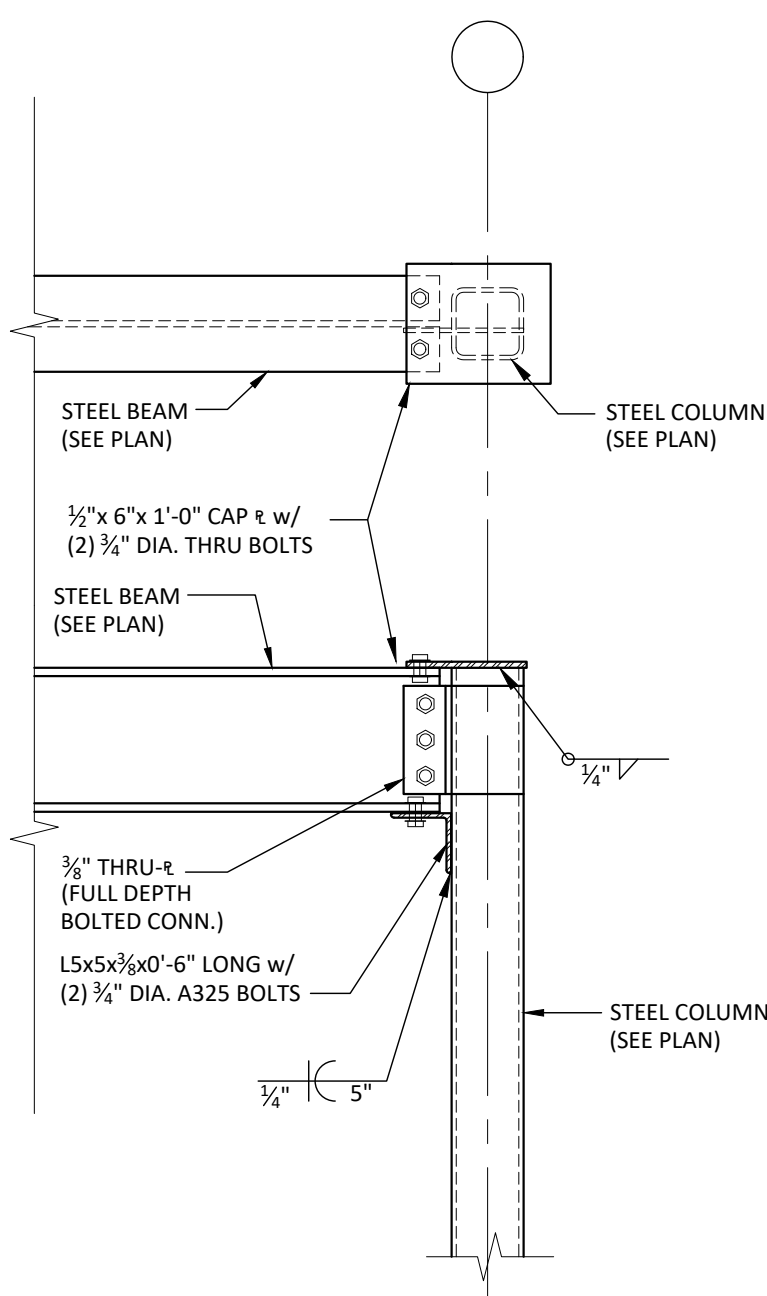
7 SECTION  
SCALE: 3/4"=1'-0"



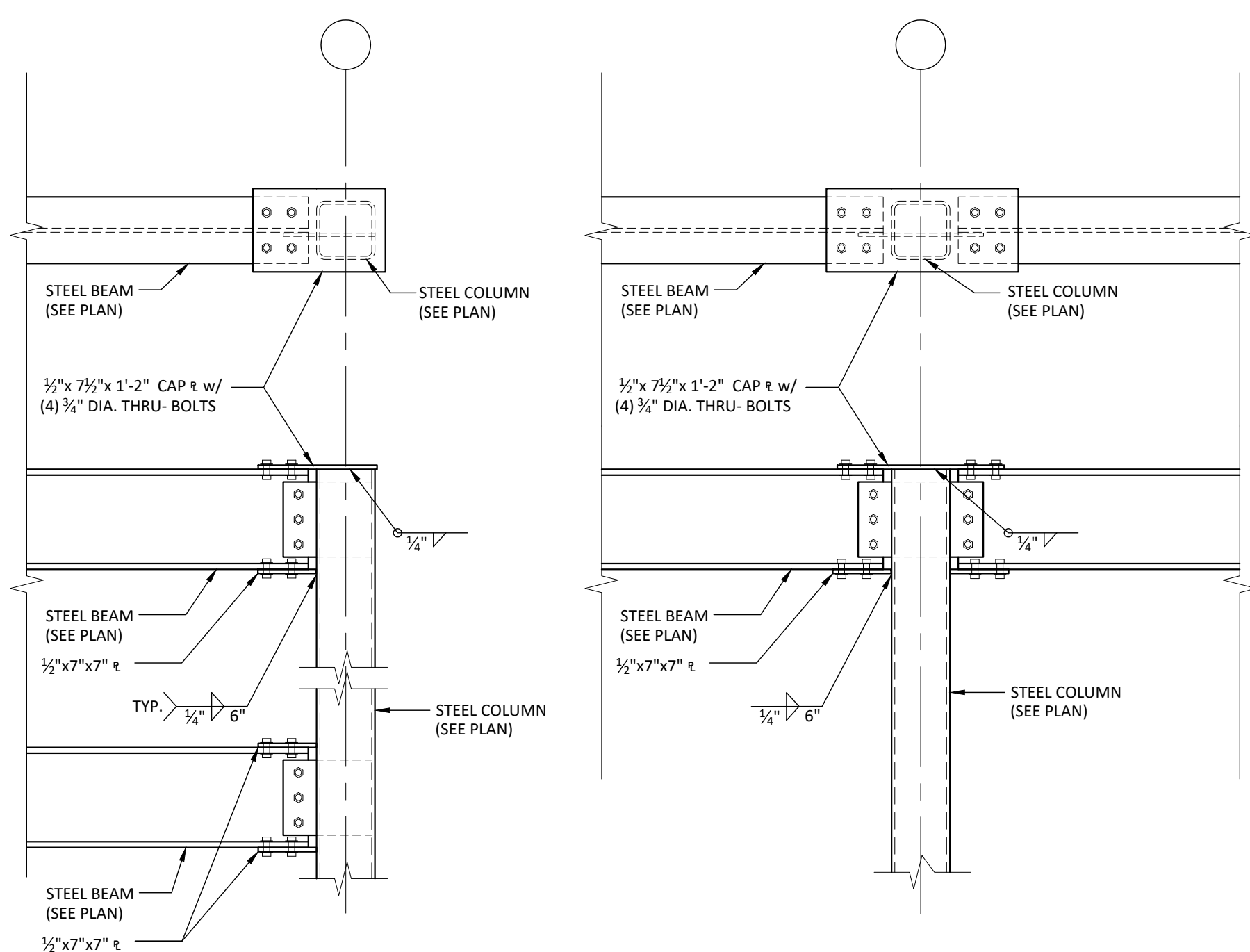
8 SECTION  
SCALE: 3/4"=1'-0"



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"

**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  
2-12-20

ARCHITECT  
**D.T.M. ARCHITECT**  
Dennis T. Mitchell, NCARB, AIA  
6031 Locust Walk, Suite 260  
Philadelphia, PA 19131  
P: 817.266.2415 F: 817.483.1377  
OfficeReply@DtmArchitect.com

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ENGINEER'S SEAL:  
  
CHRISTOPHER K. SCHARFF, P.E.  
24GE04505000

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

MEP ENGINEER:  
**PSP ASSOCIATES**  
1105 MELLIEU DRIVE  
DOWNTOWN, PA 19335

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

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



ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

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

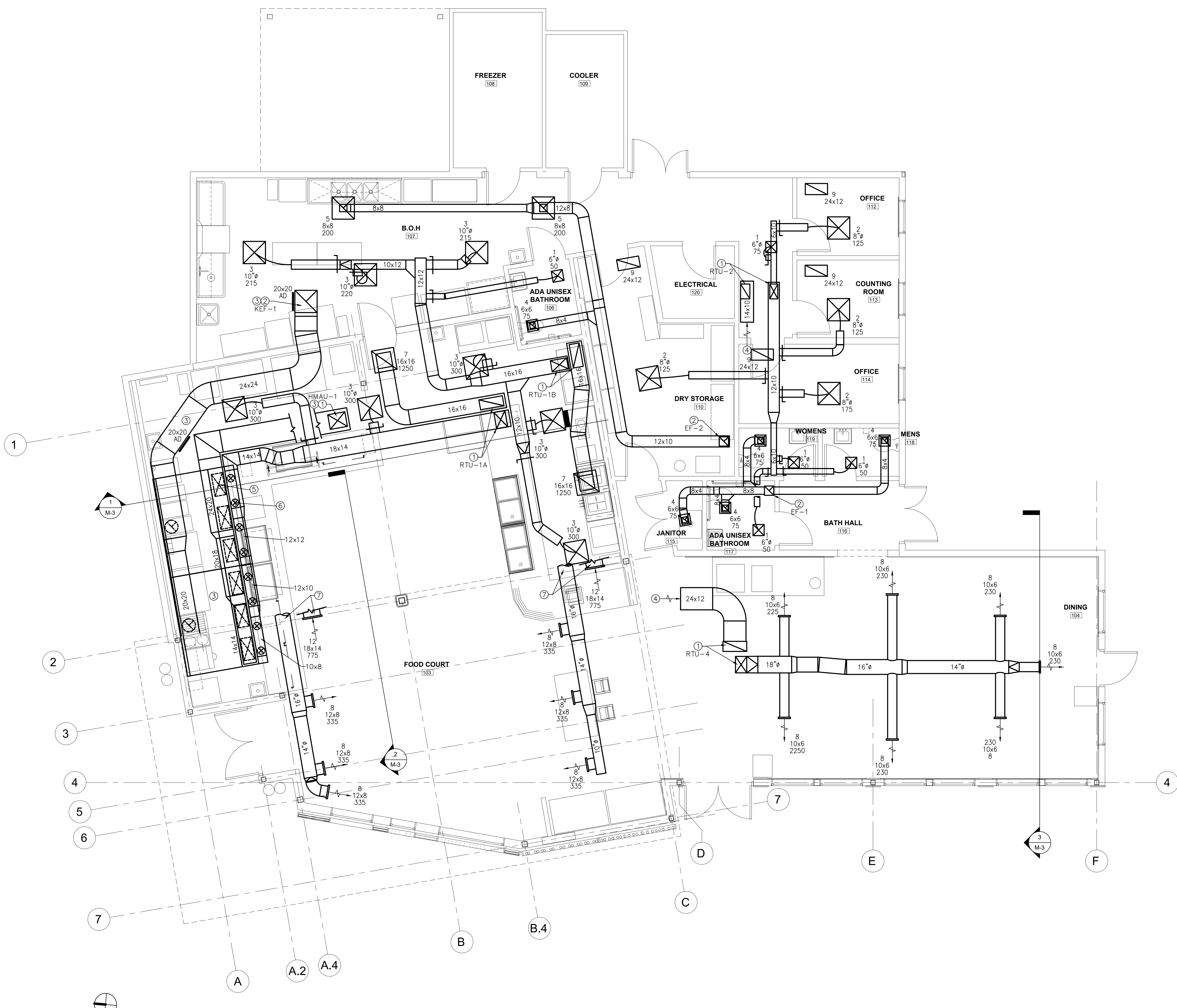
MEP ENGINEER:  
**PSP ASSOCIATES**  
 1105 MELLIE DRIVE  
 DOWNTOWN, PA 19335

**MULHERN CONSULTING ENGINEERS**  
 321 SOUTH YORK ROAD  
 HATBORO, PA 19040

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

**SHEET NOTES:**

- ① SUPPLY AND RETURN DUCT DOWN 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"

**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**

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

REVIEW SET  
 2-12-20

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

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

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

**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  
 2-12-20

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

DESIGNER:

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

MEP ENGINEER:

**PSP ASSOCIATES**  
 1105 MELLIE DRIVE  
 DOWNINGTOWN, PA 19335

**MULHERN CONSULTING ENGINEERS**  
 321 SOUTH YORK ROAD  
 HATBORO, PA 19040

STRUCTURAL ENGINEER:

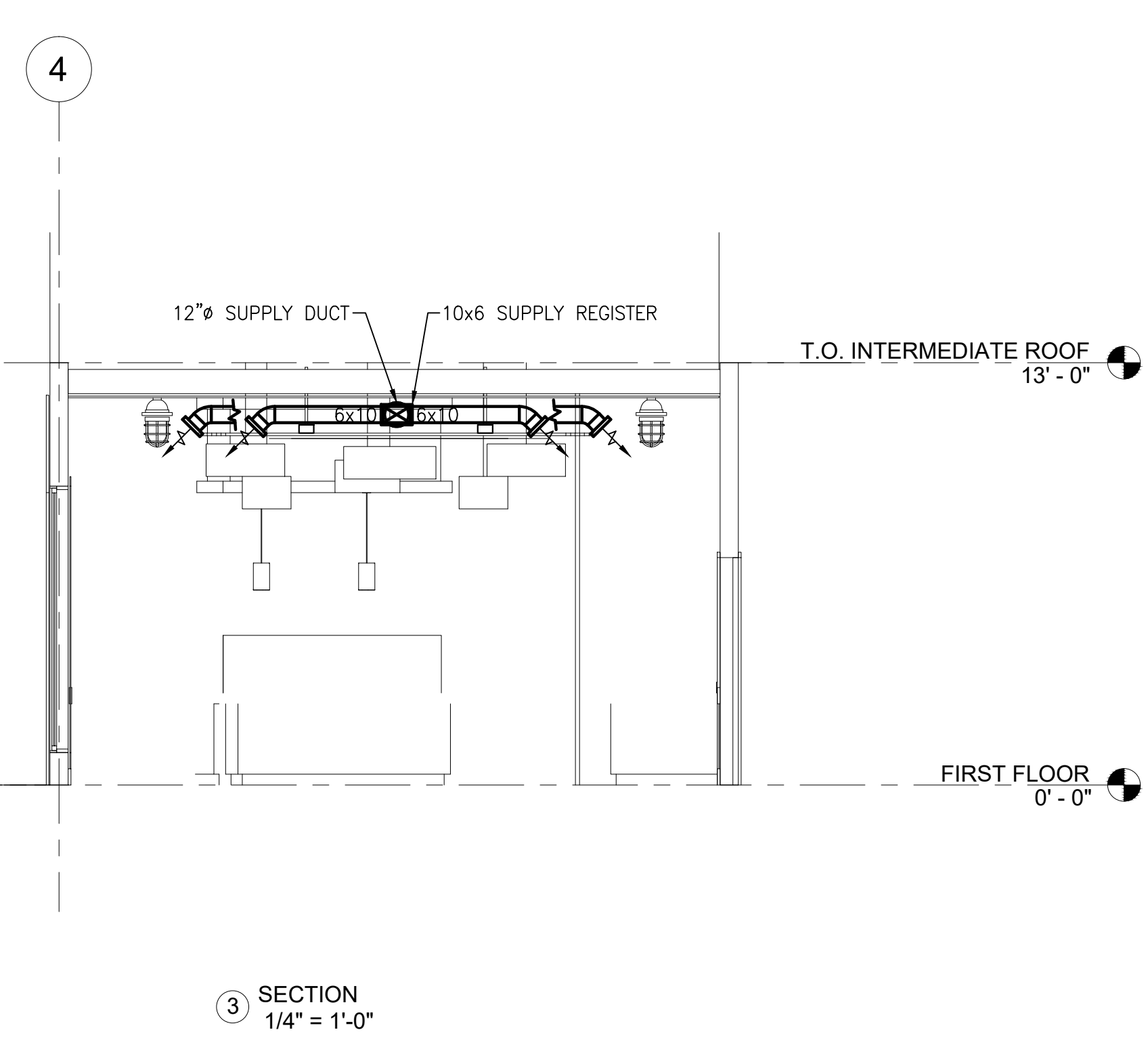
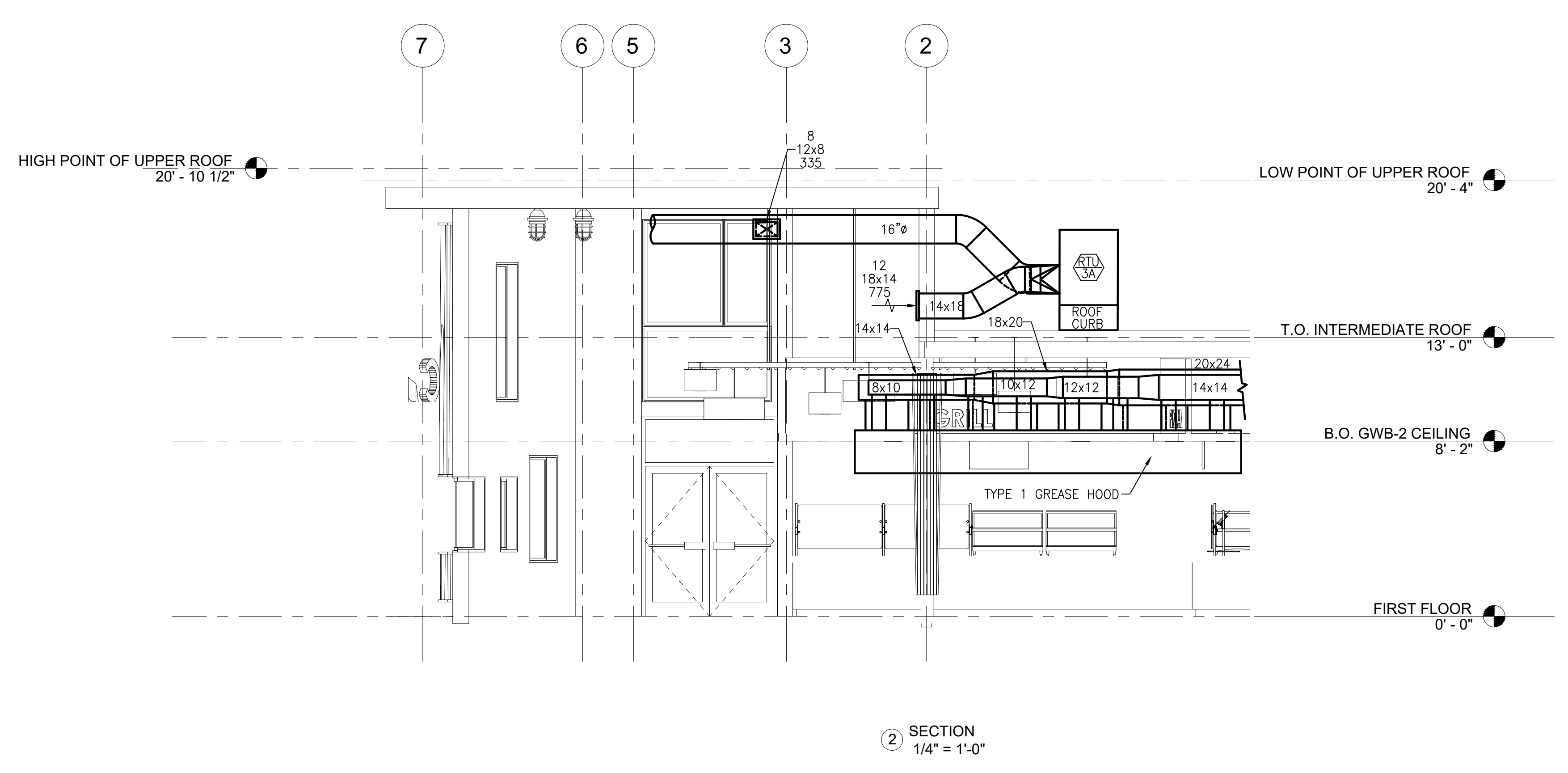
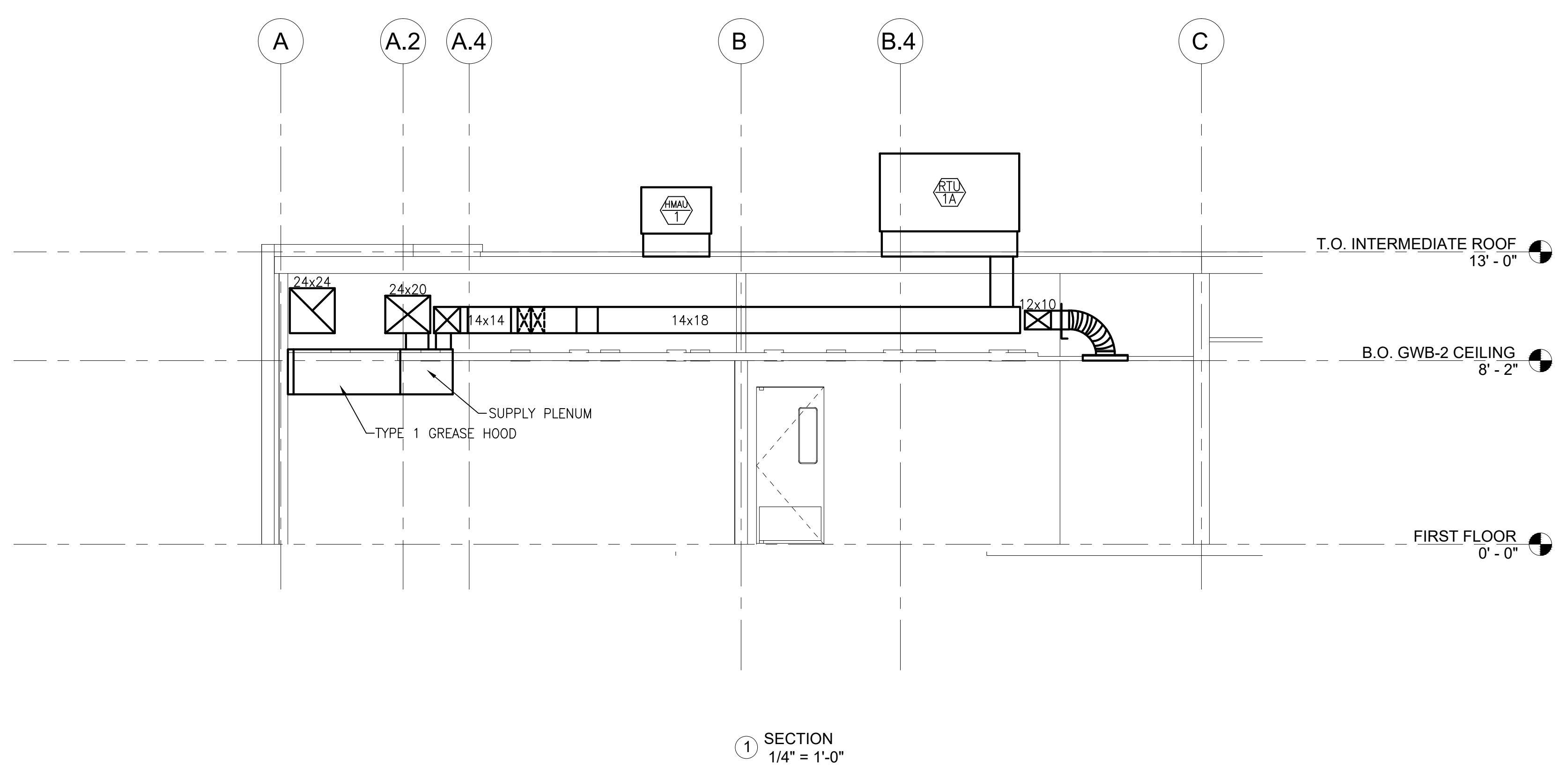
**CKS STRUCTURES, INC.**  
 280 N. PROVIDENCE RD, SUITE 105  
 MEDIA, PA 19063

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

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

TITLE:  
**MECHANICAL SECTIONS**  
 DWG. NO.  
**M-3**

REVIEW SET  
 2-12-20



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)			AIR (DEG F)		EAT	LAT	MBH INPUT	MBH OUTPUT	V-φ-Hz	MCA	MOCP	TYPE	MERV			
								DB	WB	TOTAL MBH	SENSIBLE MBH	AMBIENT AIR (°F)												
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 <sub>2</sub> 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
<b>RTU-1A/1B</b>															
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	
<b>RTU-2</b>															
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	
<b>RTU-3A/3B</b>															
103	Food Court (Customer Area)	897		7.5	0.18	36	431	0.8	538				0.7	376	Occupancy based on seat count + 100%
<b>RTU-4</b>															
104	Dining	808		7.5	0.18	34	400	0.8	500				0.7	350	Occupancy based on seat count

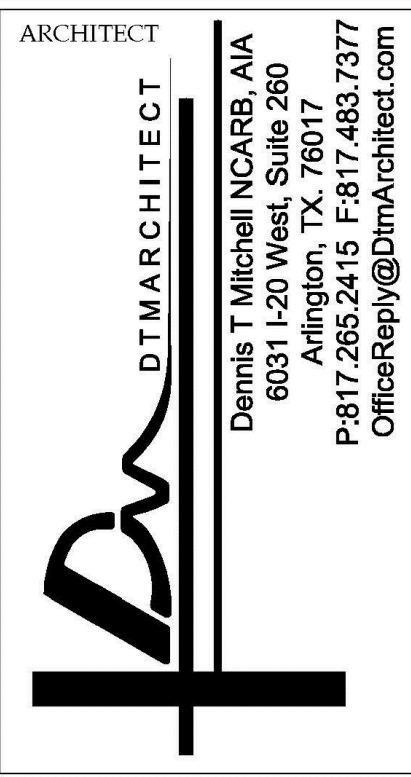
Exhaust requirements

- 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
<b>Total</b>	<b>11,344</b>	<b>11,344</b>

REVIEW SET  
2-12-20



ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

DESIGNER:

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

MEP ENGINEER:

**PSP ASSOCIATES**  
1105 MELLON DRIVE  
DOWNTOWN, PA 19335

**MULHERN CONSULTING ENGINEERS**

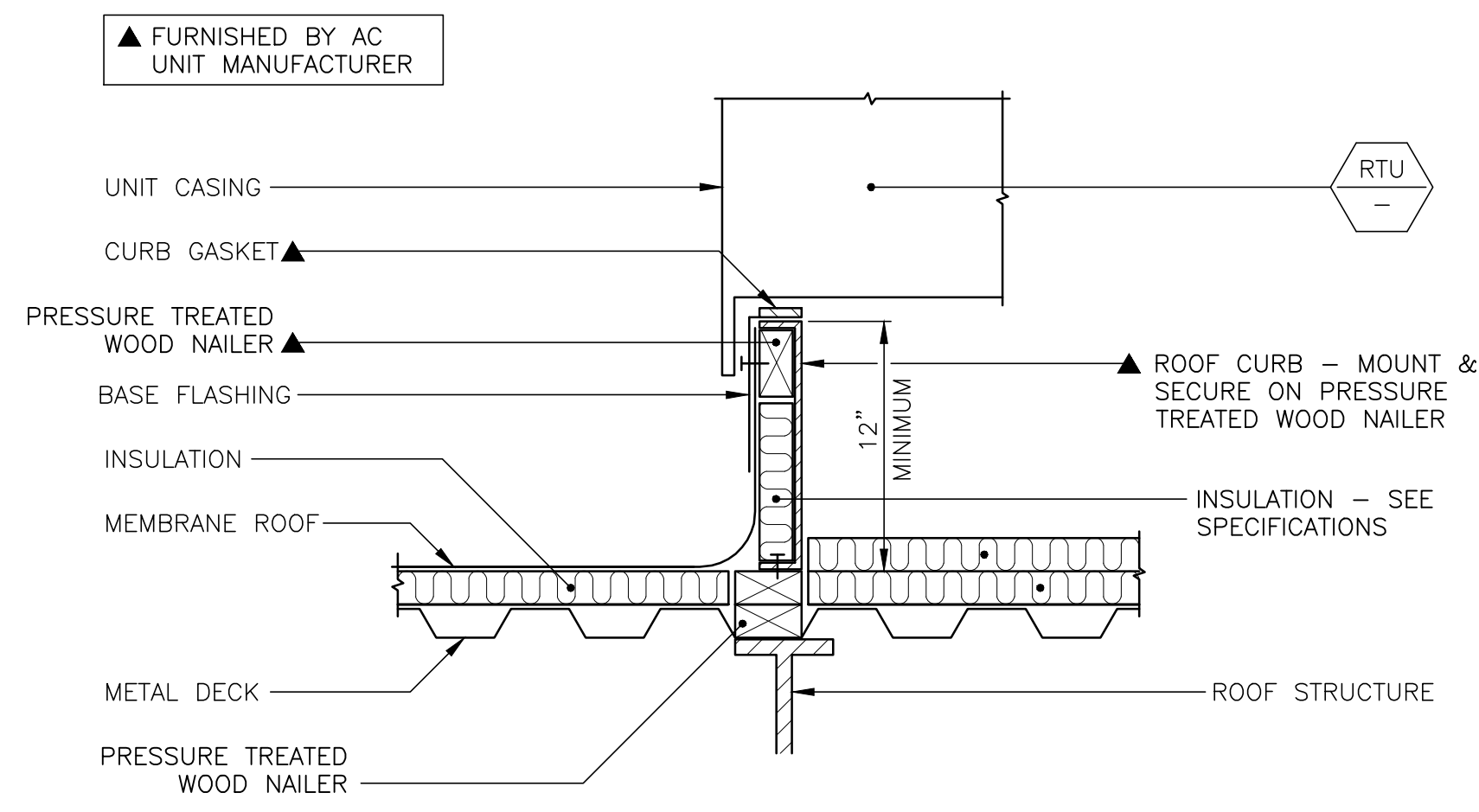
321 SOUTH YORK ROAD  
HATBORO, PA 19040

STRUCTURAL ENGINEER:

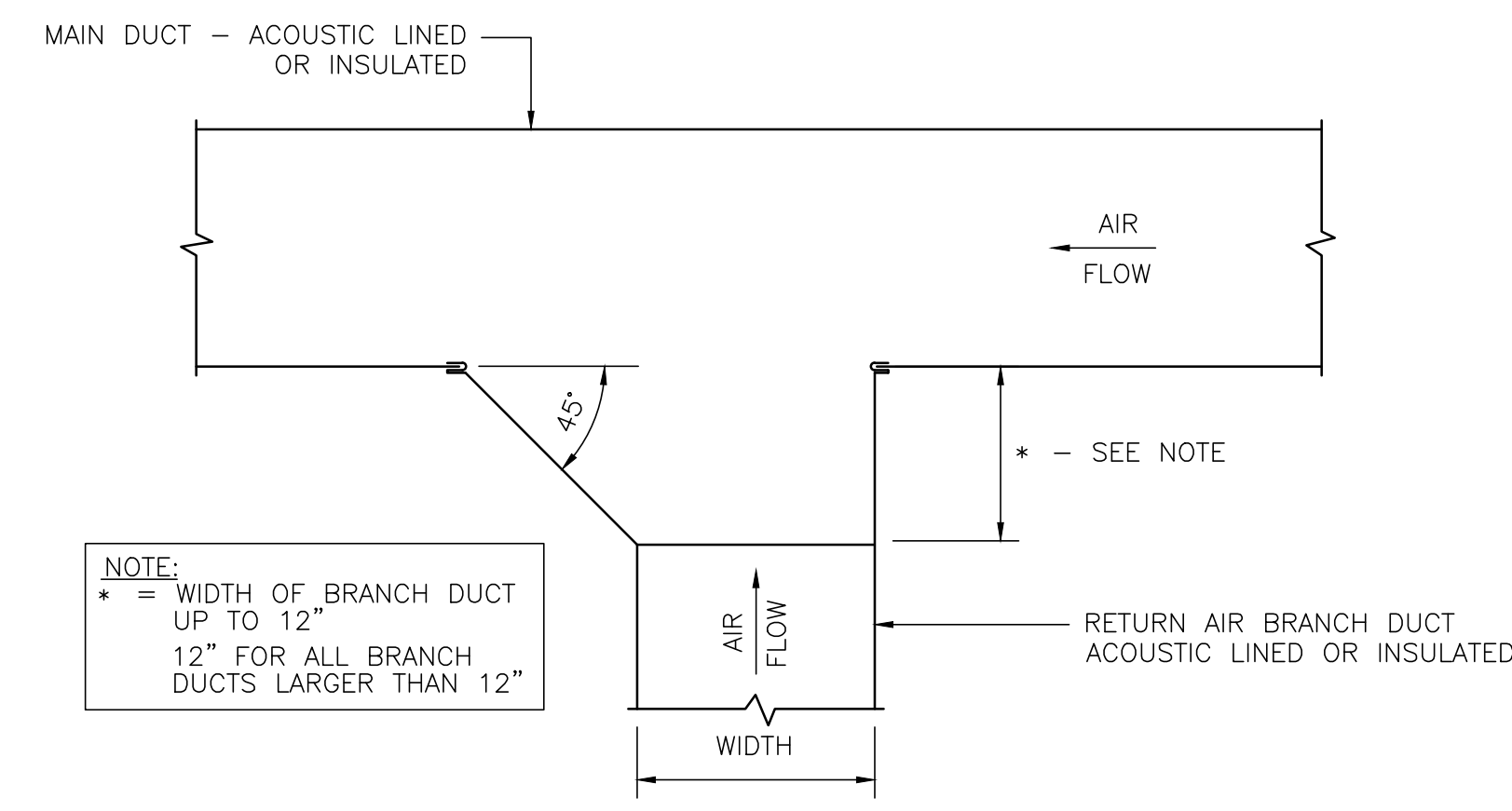
**CKS STRUCTURES, INC.**  
280 N. PROVIDENCE RD, SUITE 105  
MEDIA, PA 19063

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

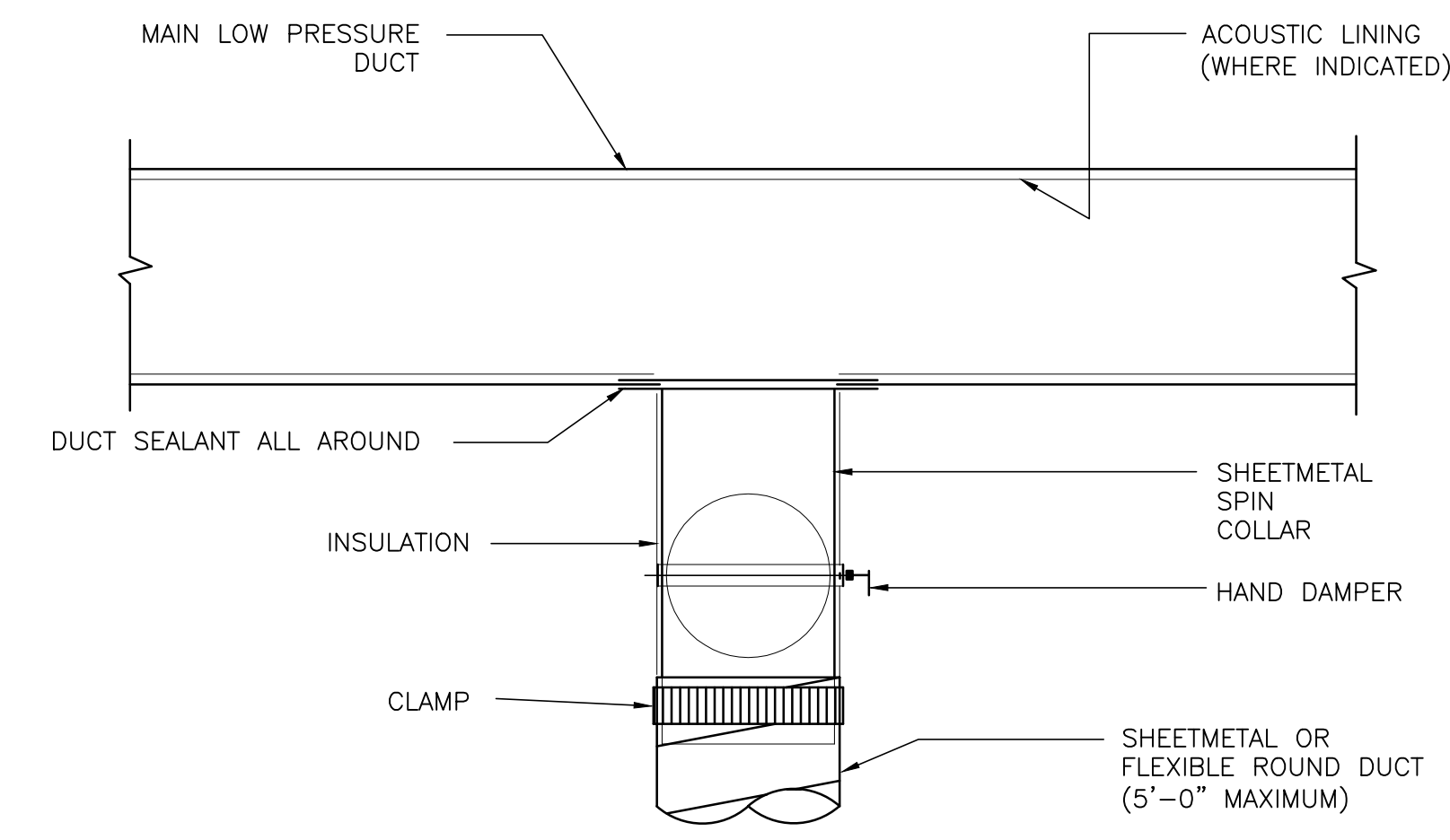
TITLE: MECHANICAL DATA SCHEDULES  
 DWG. NO. **M-4**  
 DRAWN BY: PIS APPROVED BY: PIS  
 SCALE: 1/4" = 1'-0" JOB#: 1610-021



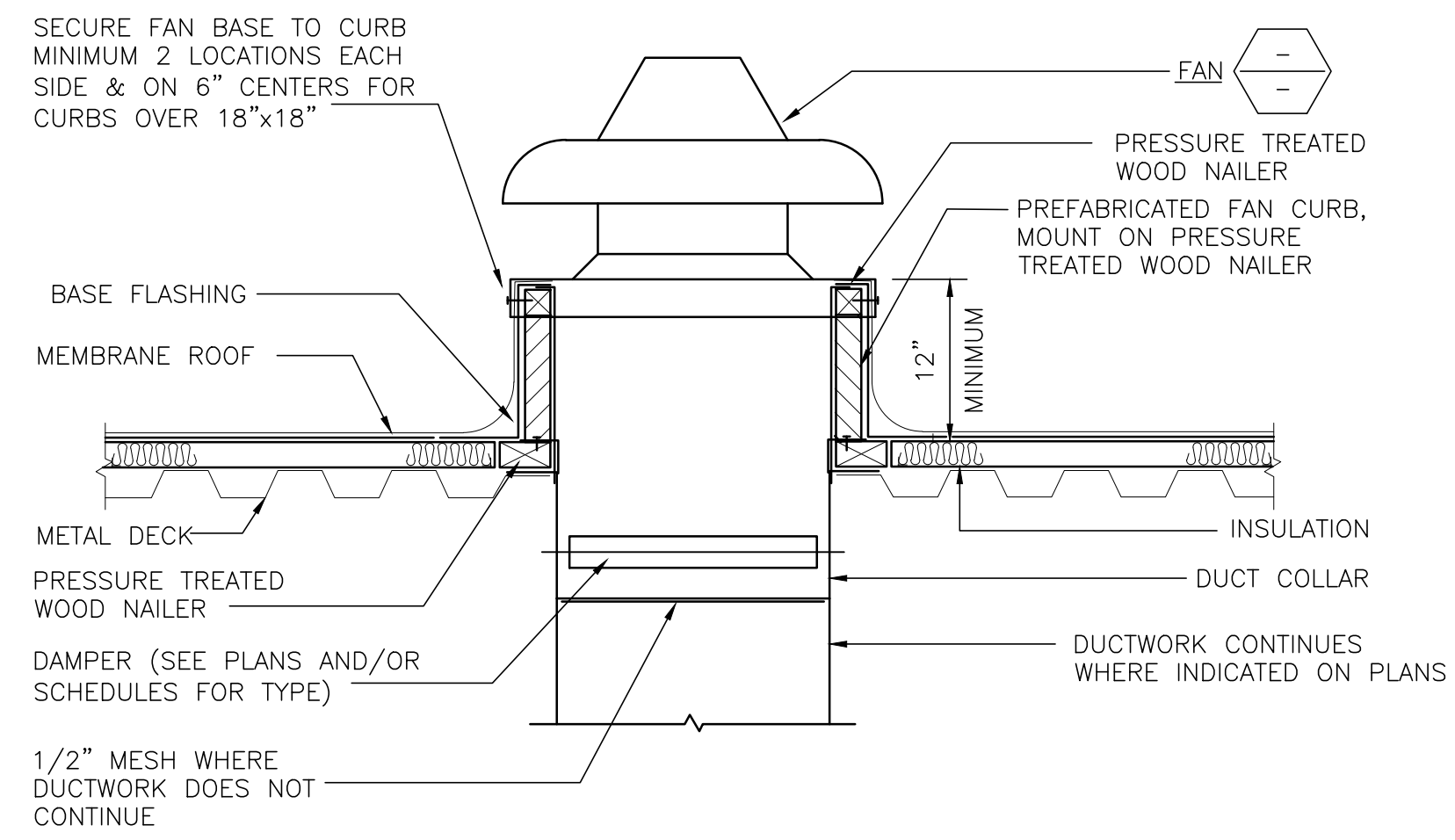
15890  
606 DETAIL-ROOF AC MOUNTING  
SCALE: N.T.S.



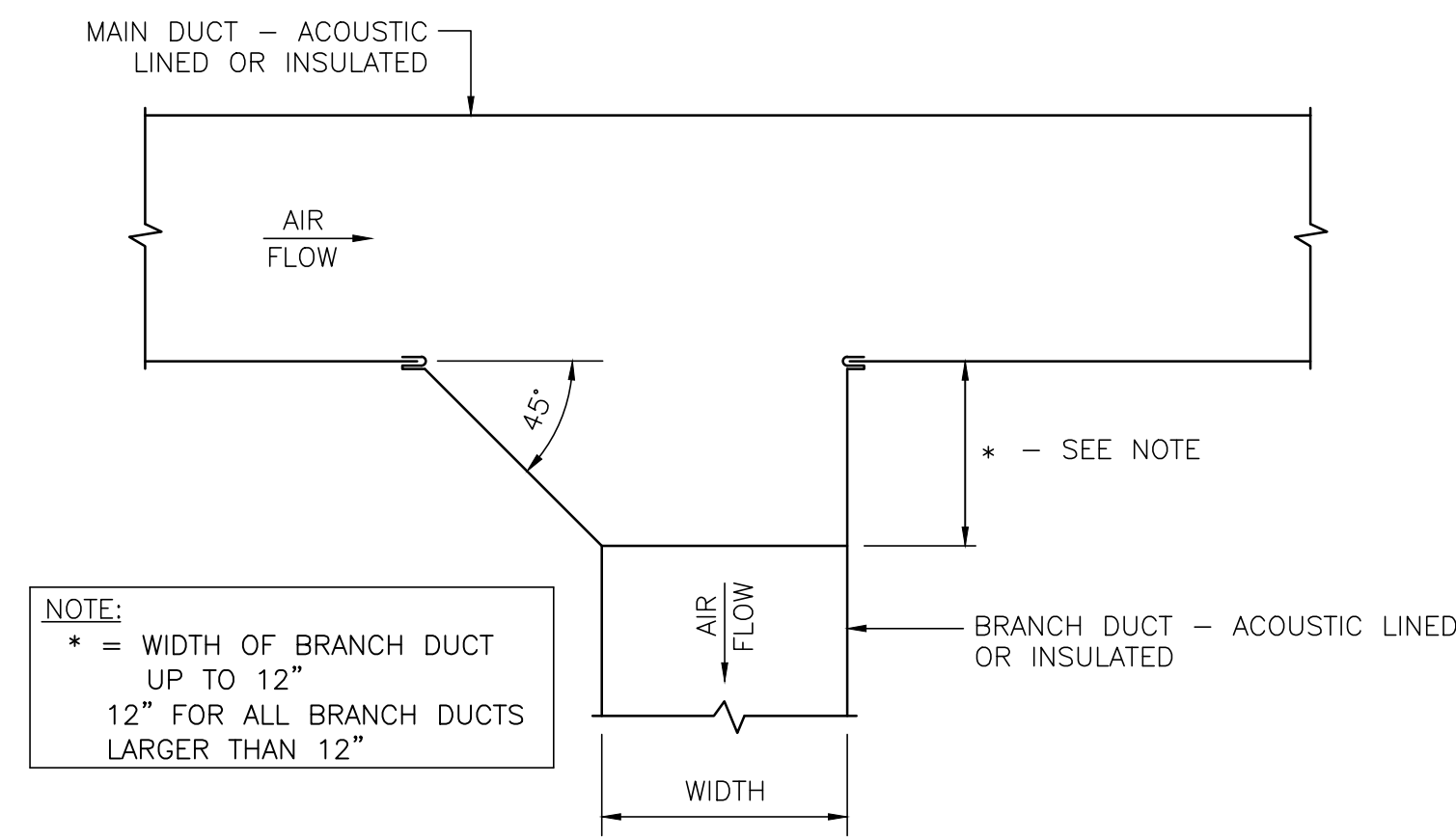
15890  
106 DETAIL-RECTANGULAR RETURN AIR BRANCH DUCT CONNECTION - MAX 3" WG/2500 FPM  
SCALE: N.T.S. (SIMILAR FOR GENERAL EXHAUST AIR)



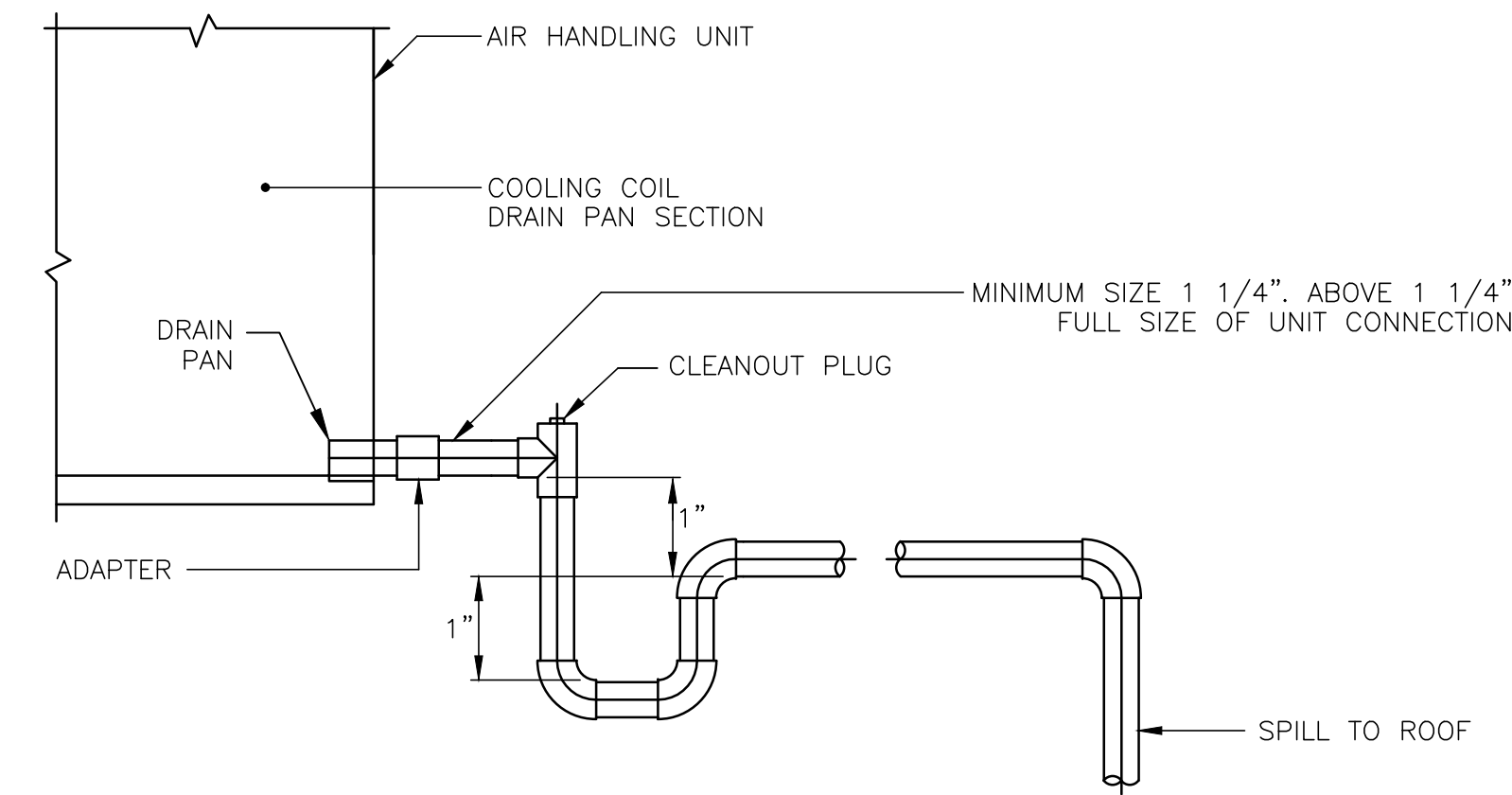
15890  
104 DETAIL-PRESSURE ROUND DUCT TAKE-OFF (SPIN COLLAR)  
SCALE: N.T.S.



15890  
501 DETAIL-ROOF FAN MOUNTING  
SCALE: N.T.S.



15890  
105A DETAIL-RECTANGULAR BRANCH DUCT TAKE-OFF MAX +2" WG/2500 FPM  
SCALE: N.T.S.



15060  
405 DETAIL-CONDENSATE DRAIN-DRAW-THRU AIR HANDLING UNIT  
SCALE: N.T.S.

ARCHITECT  
DTM ARCHITECT  
Dennis T. Mitchell NCAARB, AIA  
6001 L-20 West, Suite 280  
P-817.265.2415 F-817.483.7377  
OfficeReply@DtmArchitect.com

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

DESIGNER:

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

MEP ENGINEER:

PSP ASSOCIATES  
1105 MELLLEN 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 DETAILS  
DWG. NO.  
M-5  
DRAWN BY: PIS APPROVED BY: PIS  
SCALE: 1/4" = 1'-0" JOB#: 1610-021

REVIEW SET  
2-12-20

**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)**

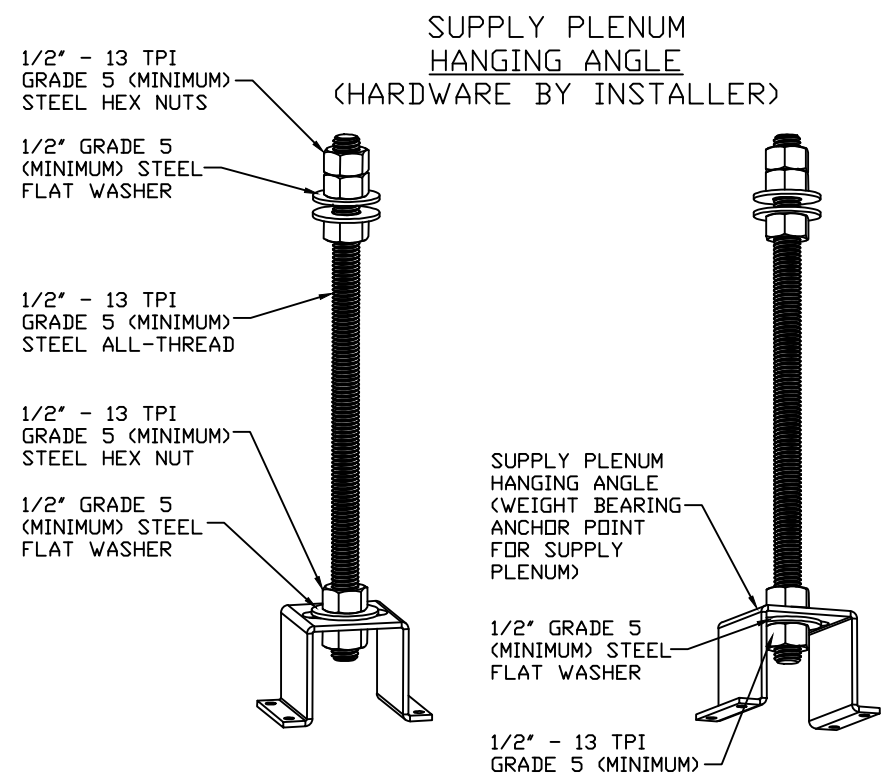
HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)			
							WIDTH	LENG.	DIA.	CFM
1	N-124L	Front	108"	28"	6'	MUA	12"	24"	624	0.174"
						MUA	12"	24"	624	0.174"
						MUA	12"	24"	624	0.174"
						AC		8"	125	0.049"
						AC		8"	125	0.049"
						AC		8"	125	0.049"
2	N-124R	Front	108"	28"	6'	MUA	12"	24"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

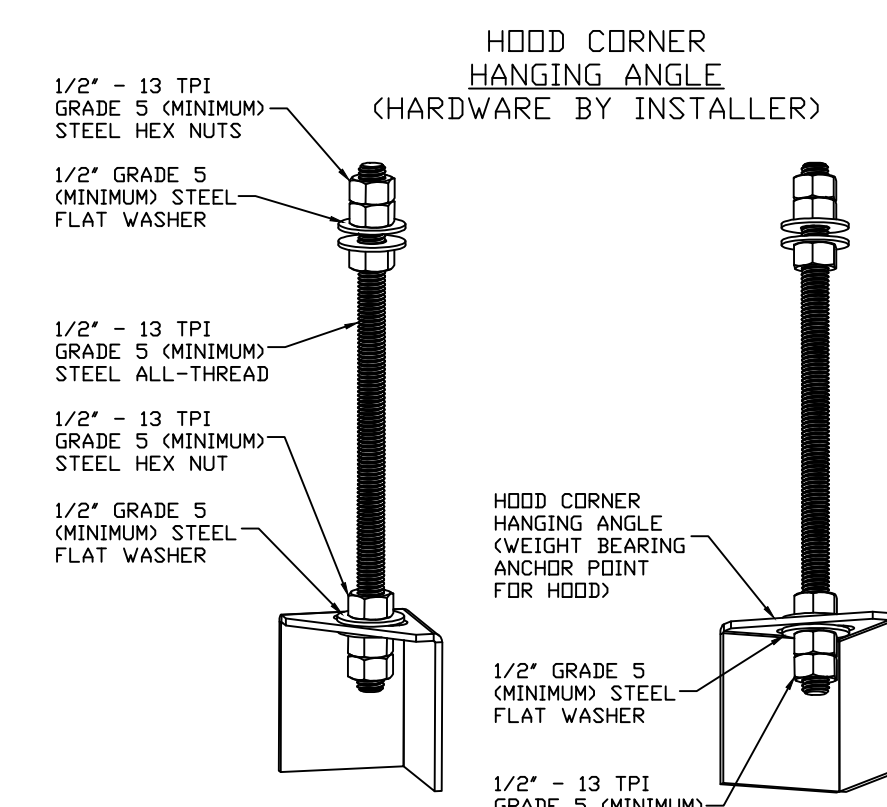
**GAS VALVE(S)**

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.

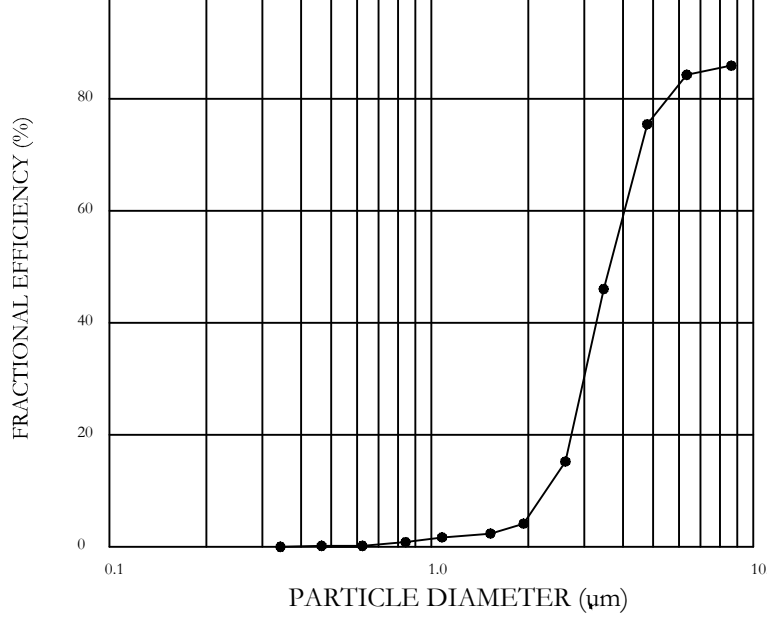
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

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

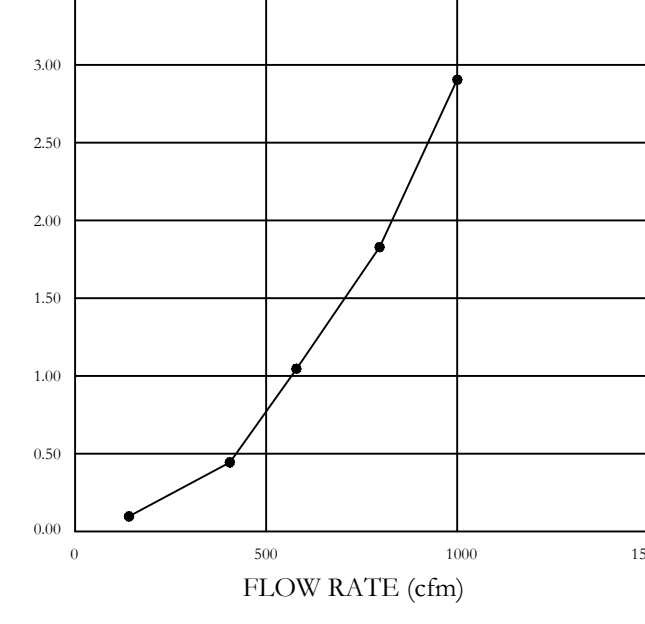
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

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

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



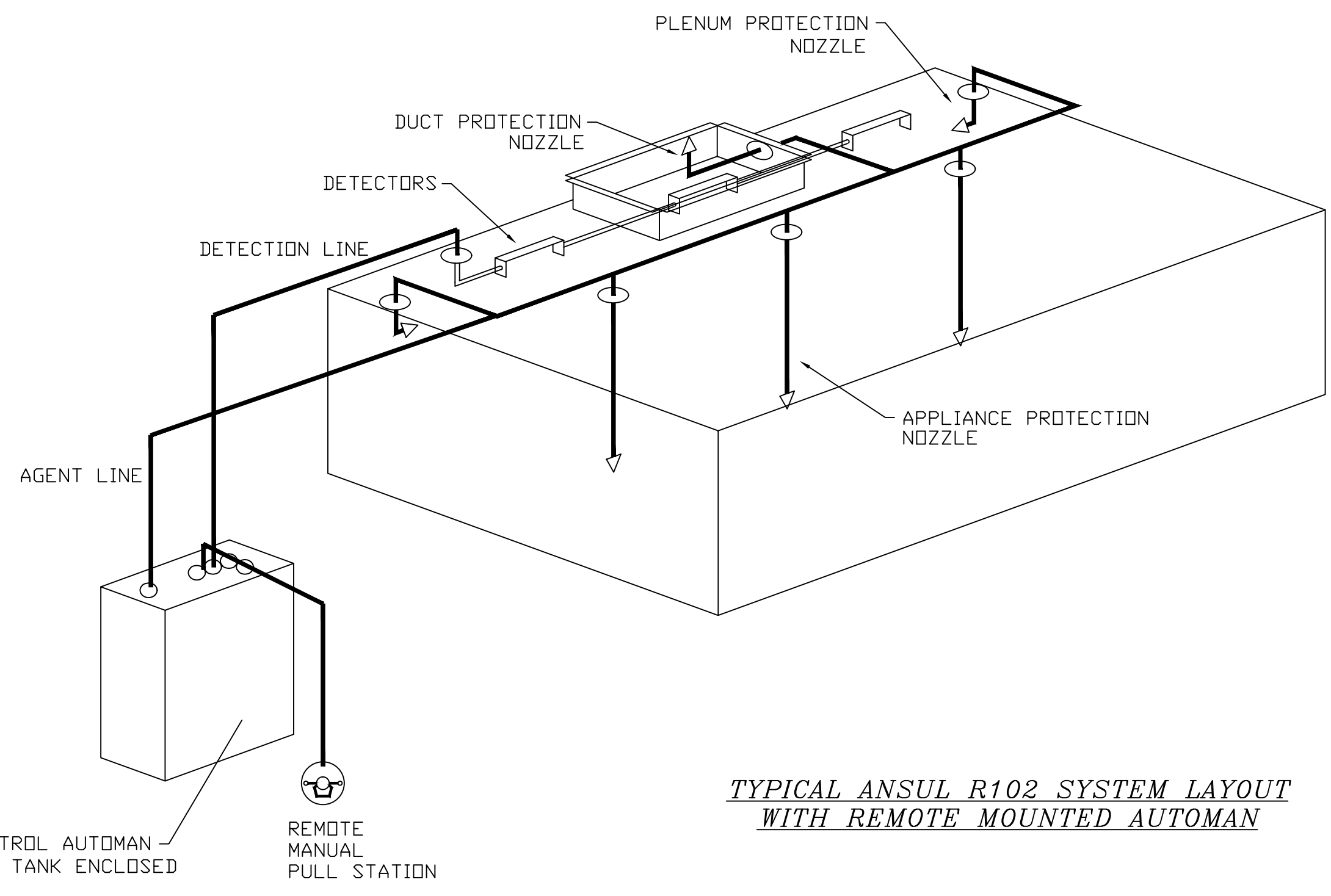
CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH: NFPA #96 NSF STANDARD #2 UL STANDARD #1046 INT. MECH. CODE (IMC) ULC-S649



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



**TYPICAL ANSUL R102 SYSTEM LAYOUT WITH REMOTE MOUNTED AUTOMAN**

**REVISIONS**

DESCRIPTION	DATE

**CAPTIVE-AIRE**

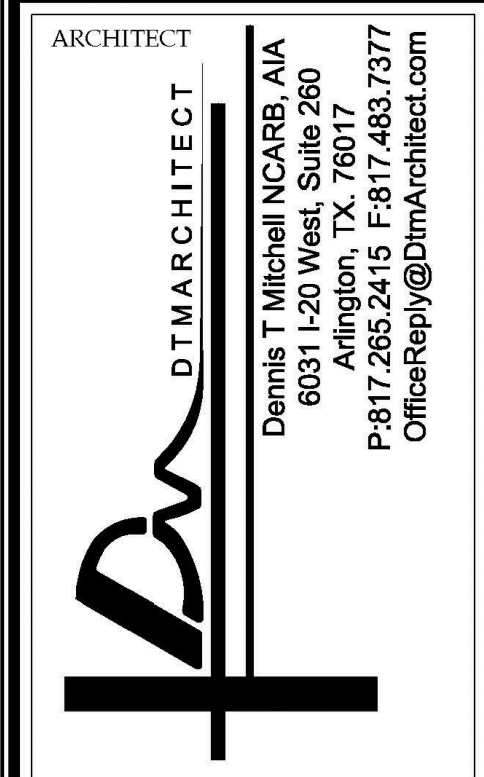
Delaware & New Jersey Account  
560 Stokes Road, Unit 13A6, Medford, NJ 08055 PHONE: (609) 654-8368 FAX: (919) 747-5604 EMAIL: reg19@captiveaire.com

\*\*\* 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

REVIEW SET  
2-12-20



ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

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

MFP ENGINEER:  
**PSP ASSOCIATES**  
1105 MELLIE DRIVE  
DOWNTOWN, PA 19335

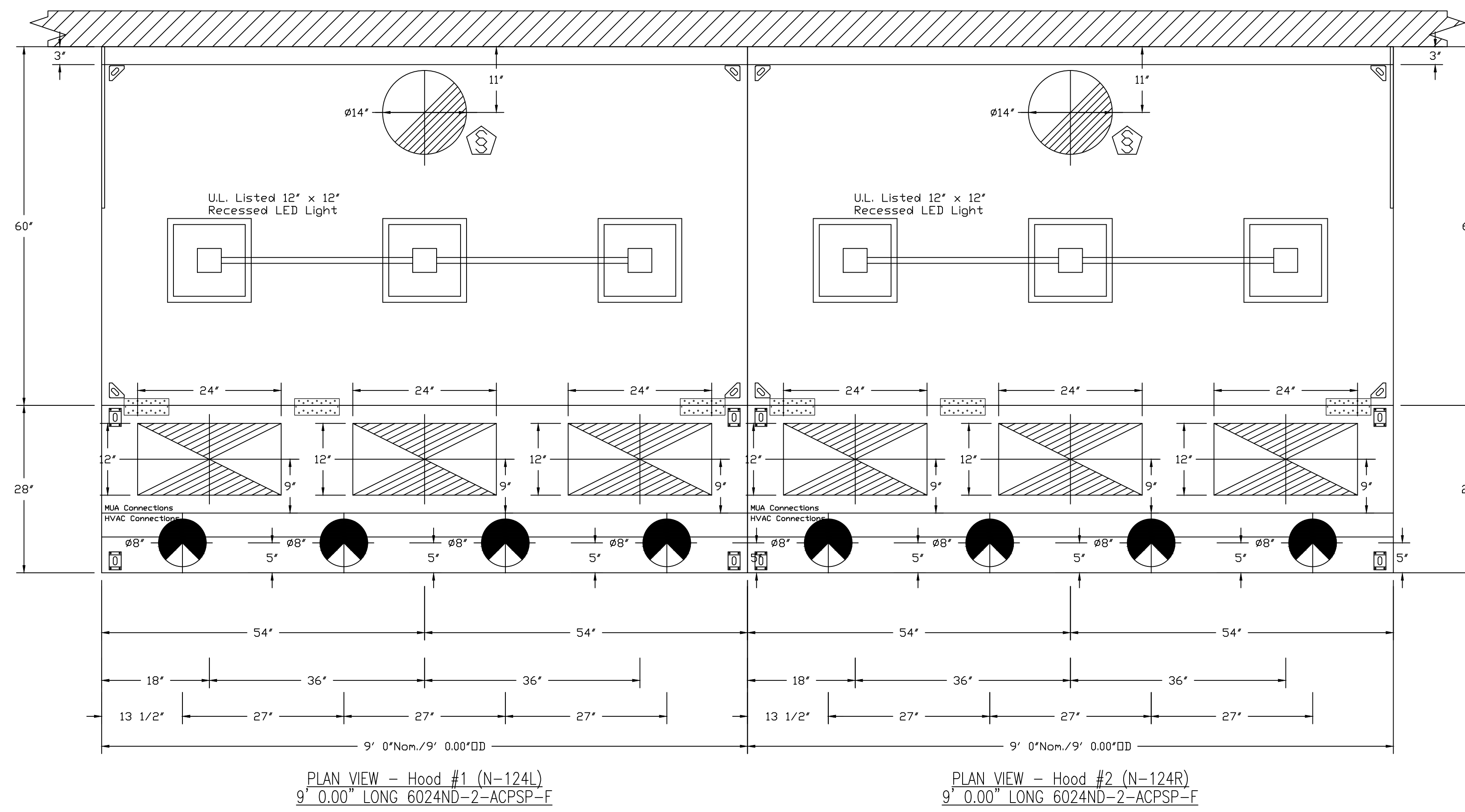
STRUCTURAL ENGINEER:  
**MULHERN CONSULTING ENGINEERS**  
321 SOUTH YORK ROAD  
HATBORO, PA 19040

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

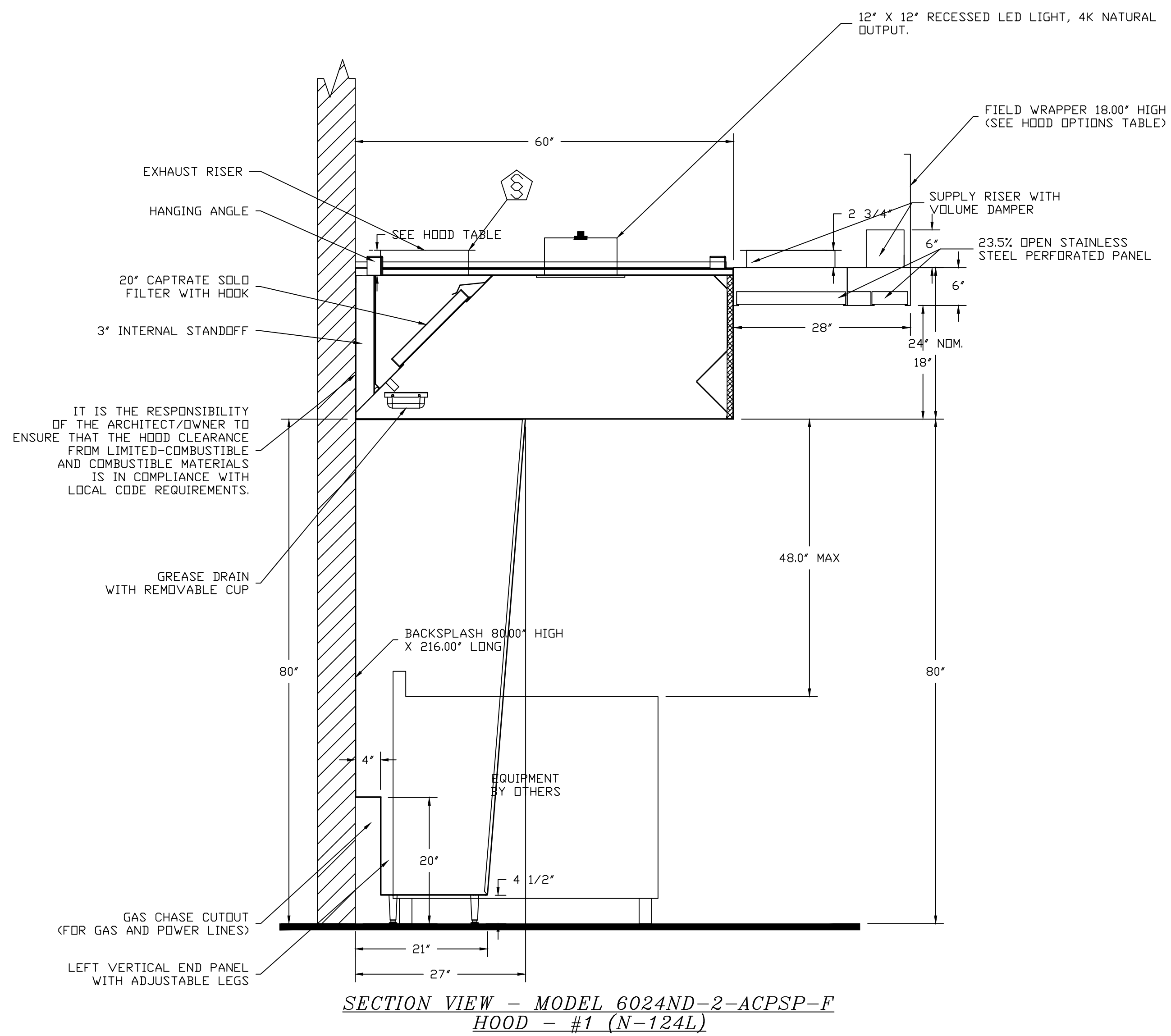
TITLE:  
MECHANICAL KITCHEN HOOD SYSTEM - SHEET 1 OF 6  
DWG. NO. **M-6**

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

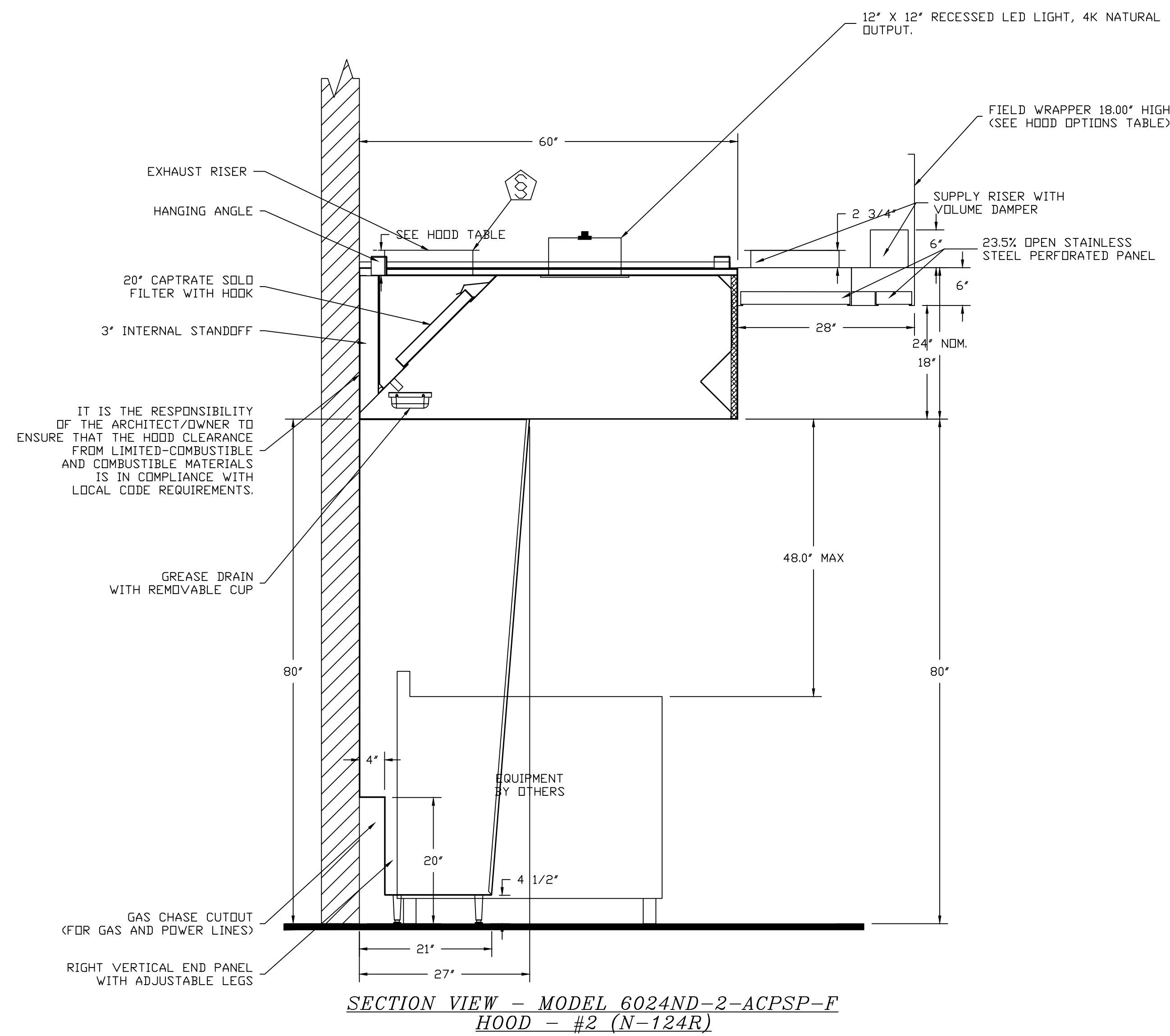


ACPSP ships loose for field installation

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

**ARCHITECT**  
 DT MARCHITECT  
 Dennis T. Mitchell, NCBARB, AIA  
 6001 L-20 West, Suite 280  
 P-817.265.2415 F-817.483.7317  
 OfficeReply@DtMArchitect.com

**CAPTIVE**  
 www.captiveare.com

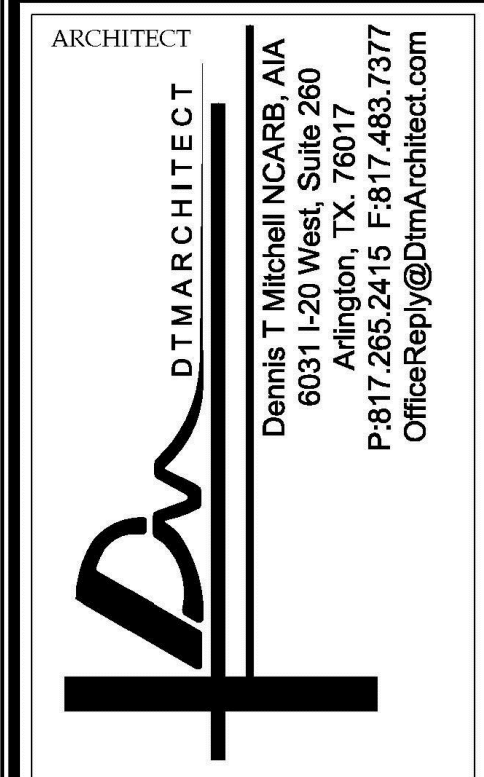
Delaware & New Jersey Account  
 (609) 654-8368 FAX: (919) 747-5604 EMAIL: reg19@captiveare.com

\*\* Cape May County Zoo - R1 1-27-16  
 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.**  
 2

REVIEW SET  
 2-12-20



ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

**ARCHITECT'S SEAL:**

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

**MEP ENGINEER:**  
**PSP ASSOCIATES**  
 1105 MELLIN 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

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

**MECHANICAL KITCHEN HOOD  
 SYSTEM - SHEET 2 OF 6**  
 DWG. NO. **M-7**

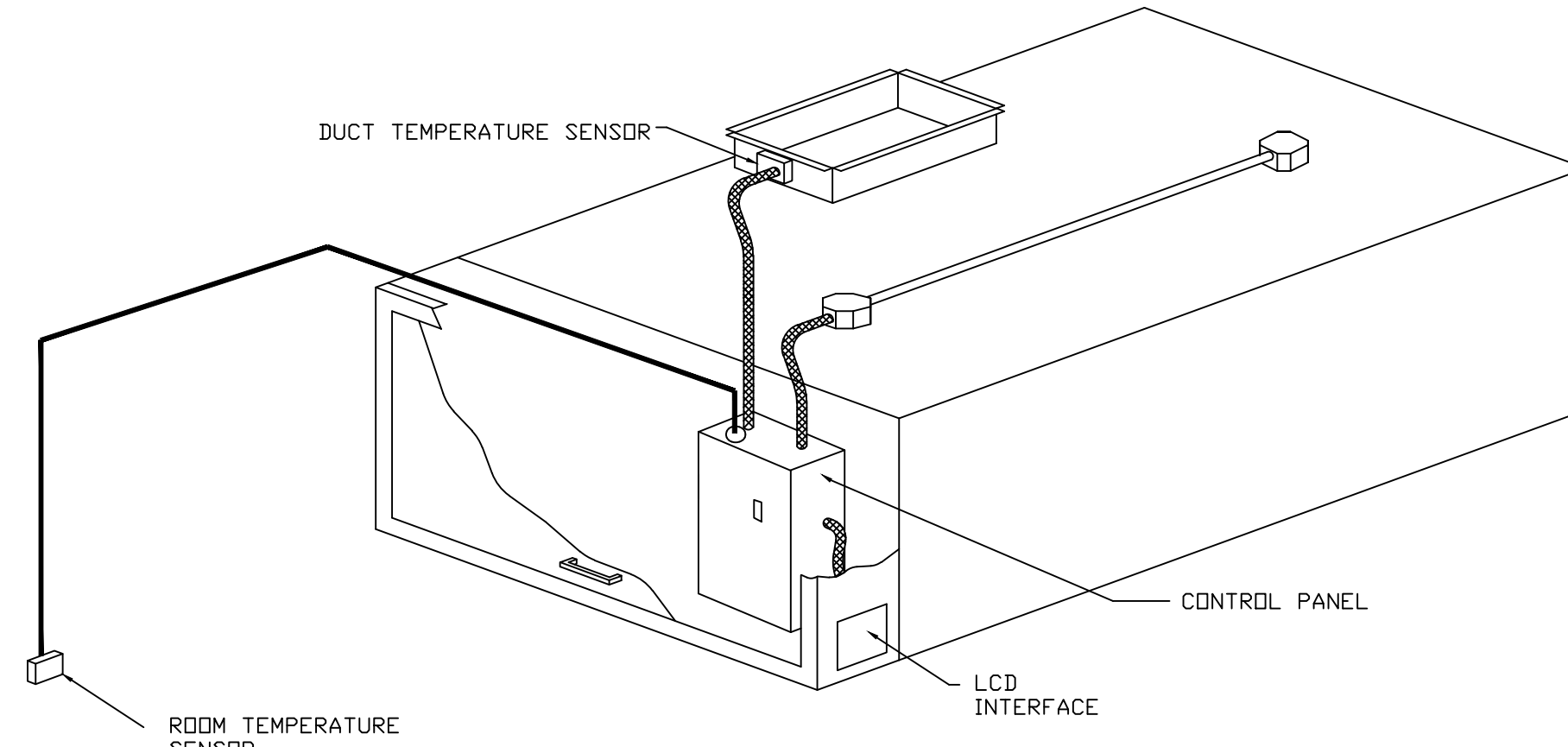
DRAWN BY: PIS APPROVED BY: PIS  
 SCALE: 1/4" = 1'-0" JOB#: 1610-021

**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:**

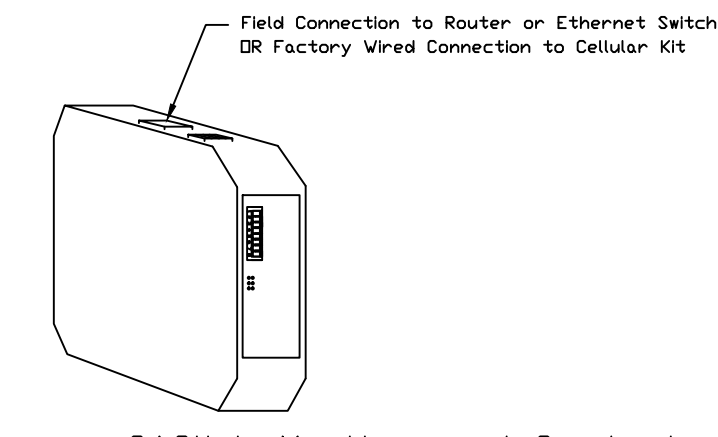
- Controls shall be listed by ETL (UL 508A) and shall comply with demand ventilation system turndown requirements outlined in IECC 403.2.8 (2015).
- The control enclosure shall be NEMA 1 rated and listed for installation inside of the exhaust hood utility cabinet. The control enclosure may be constructed 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	Duct 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	CDR 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
CDR 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  
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. 3

REVIEW SET  
2-12-20

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

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

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

MEP ENGINEER:  
**PSP ASSOCIATES**  
1105 MELLIEU 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 3 OF 6  
DWG. NO. **M-8**  
DRAWN BY: PIS APPROVED BY: PIS  
SCALE: 1/4" = 1'-0" JOB#: 1610-021





**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.

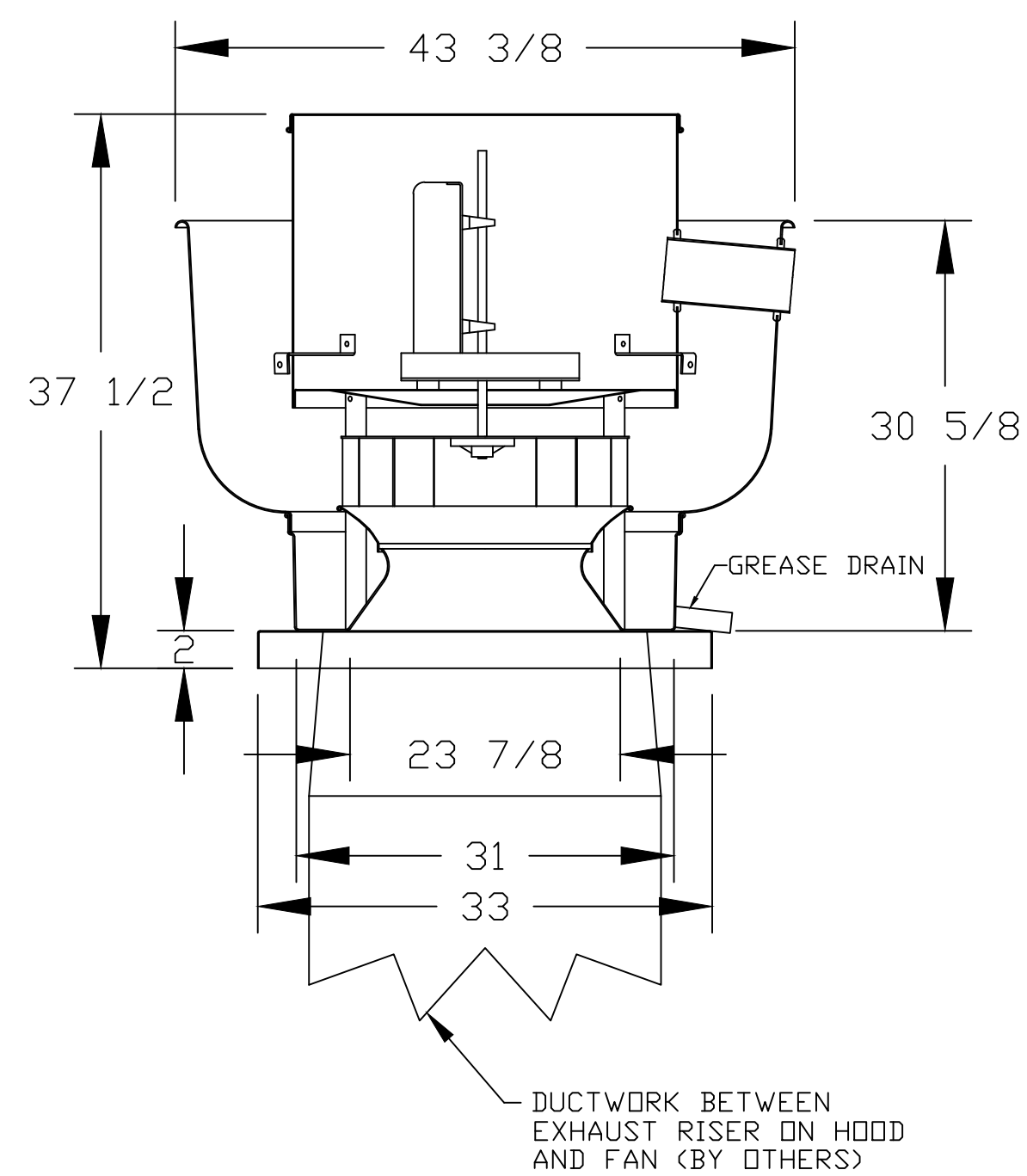
**FAN ACCESSORIES**

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:**

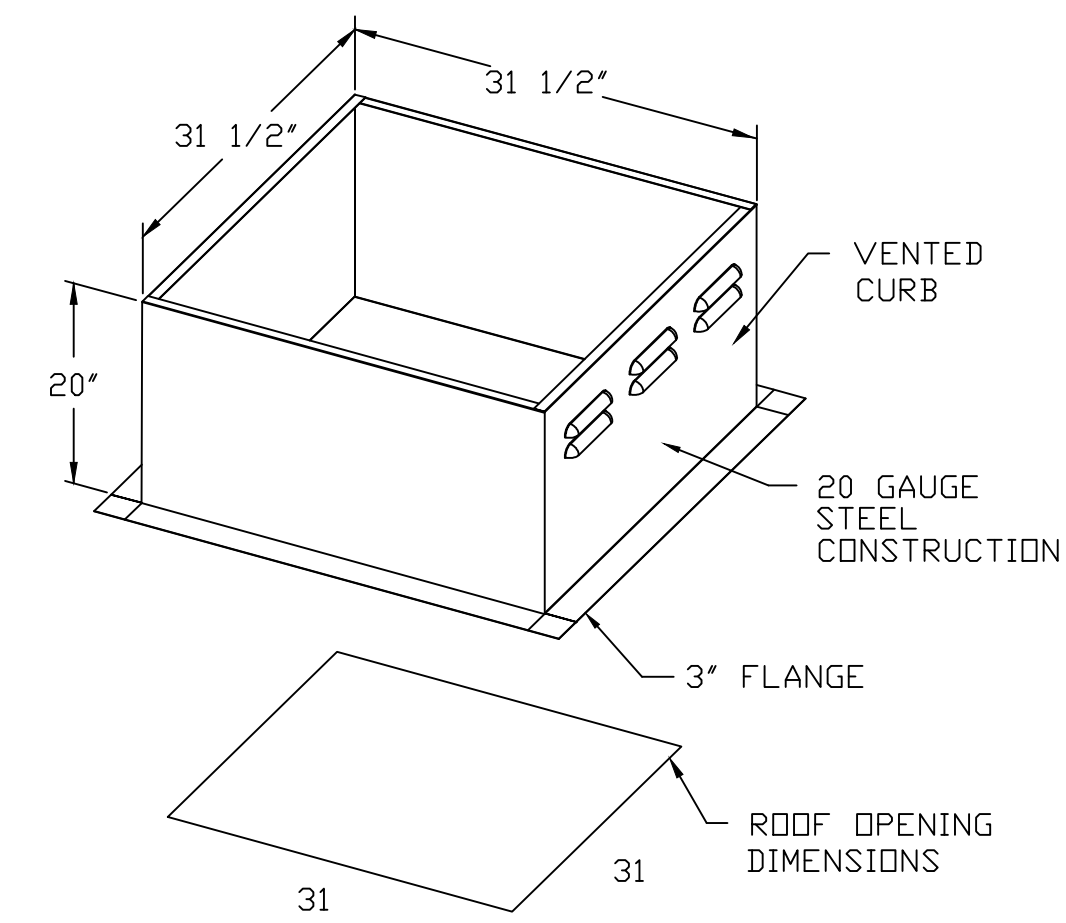
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762 AND ULC-S645
- AMCA SOUND AND AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT SWITCH
- WEATHERPROOF DISCONNECT
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

**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

**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

ARCHITECT  
**DTM ARCHITECT**  
Dennis T. Mitchell N.C.R.B., AIA  
6001 L-20 West, Suite 260  
P-817-265-2415 F-817-483-7377  
OfficeReply@DtmArchitect.com

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

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

**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  
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  
2-12-20



ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

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

MEP ENGINEER:  
**PSP ASSOCIATES**  
 1105 MELLIEN DRIVE  
 DOWNINGTOWN, PA 19335  
**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

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

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

TITLE:  
**LIGHTING PLAN**  
 DWG. NO.  
**E1**



**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 EM/EX		CONNECT TO NEAREST EX/EM

**REVIEW SET**  
 2-12-20

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:  
 DESIGNER:  
**T+ASSOCIATES INC.**  
 525 S. 4TH ST., STE 591  
 PHILADELPHIA, PA 19147  
 T: 215.629.6374

MFP ENGINEER:  
**PSP ASSOCIATES**  
 1105 MELLIE DRIVE  
 DOWNTOWN, PA 19335

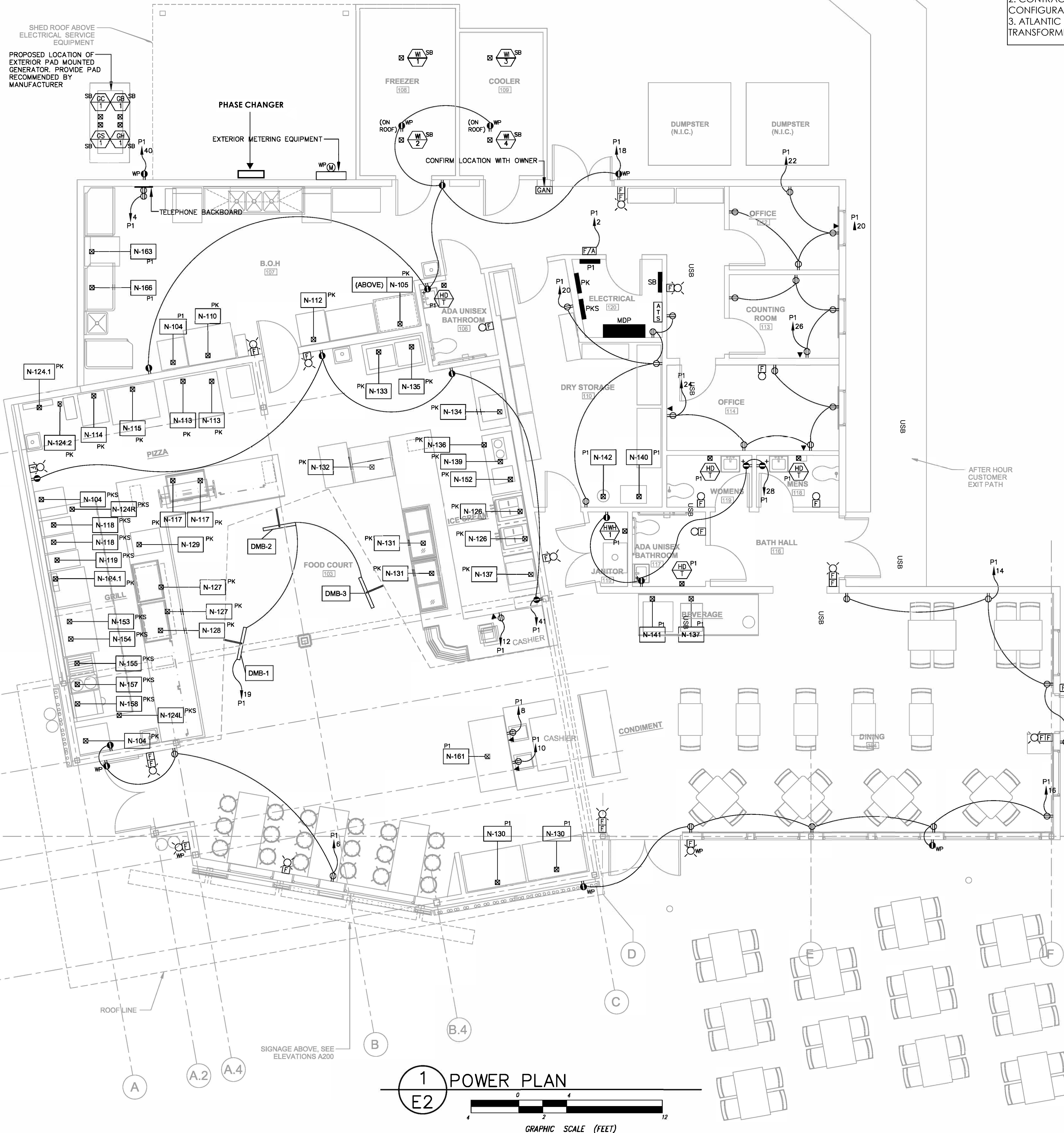
**MULHERN CONSULTING ENGINEERS**  
 321 SOUTH YORK ROAD  
 HATBORO, PA 19040  
 JOB #5319

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

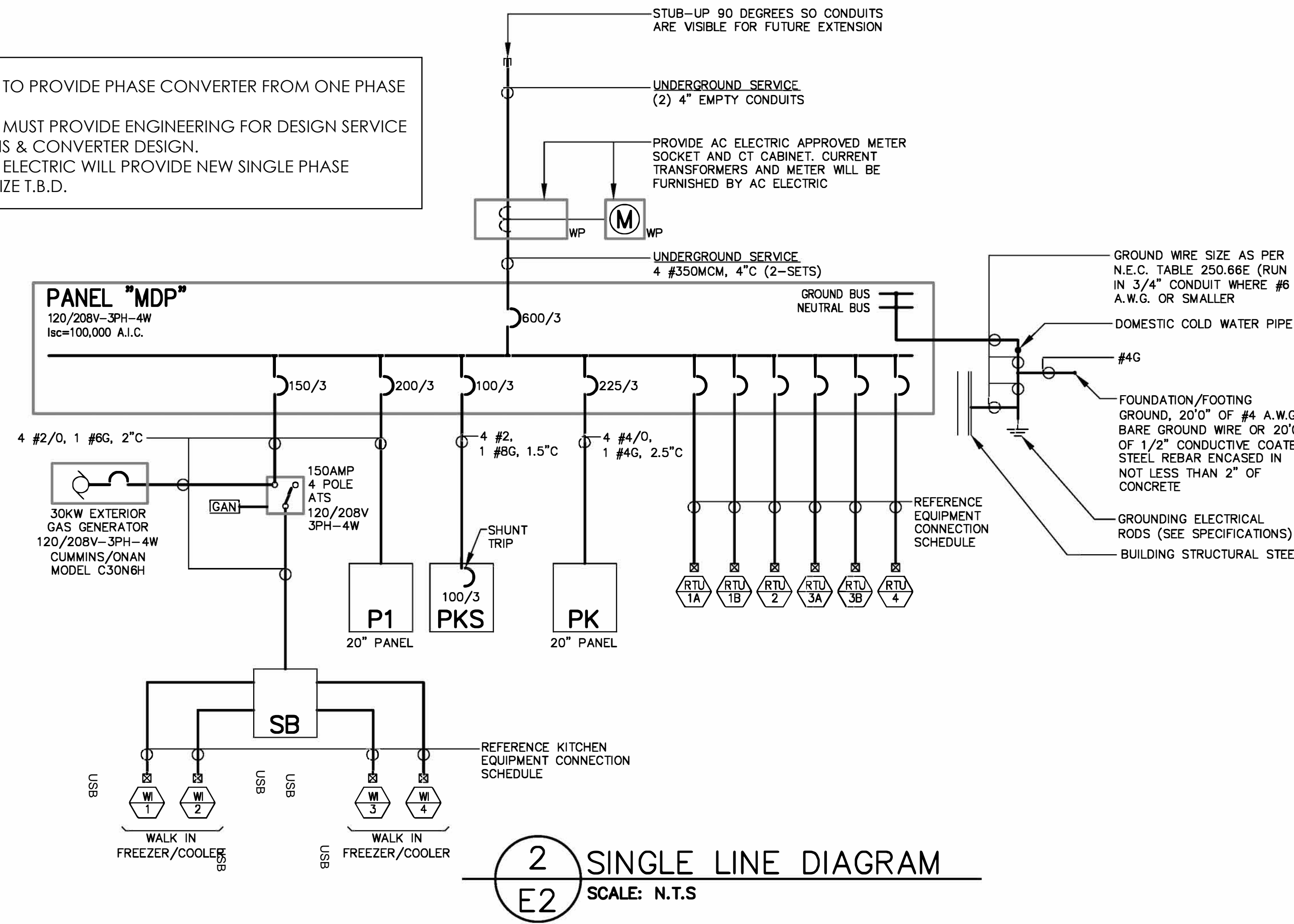
**CAPE MAY COUNTY ZOO SAFARI  
 CAFE 2 NEW RETAIL FOOD BUILDING**  
 707 ROUTE 9 NORTH, CAPE MAY COURT  
 HOUSE, NJ 08210

TITLE: **POWER PLAN**  
 DWG. NO. **E2**  
 DRAWN BY: KMT APPROVED BY: TWM  
 SCALE: AS NOTED JOB#: 1610-021

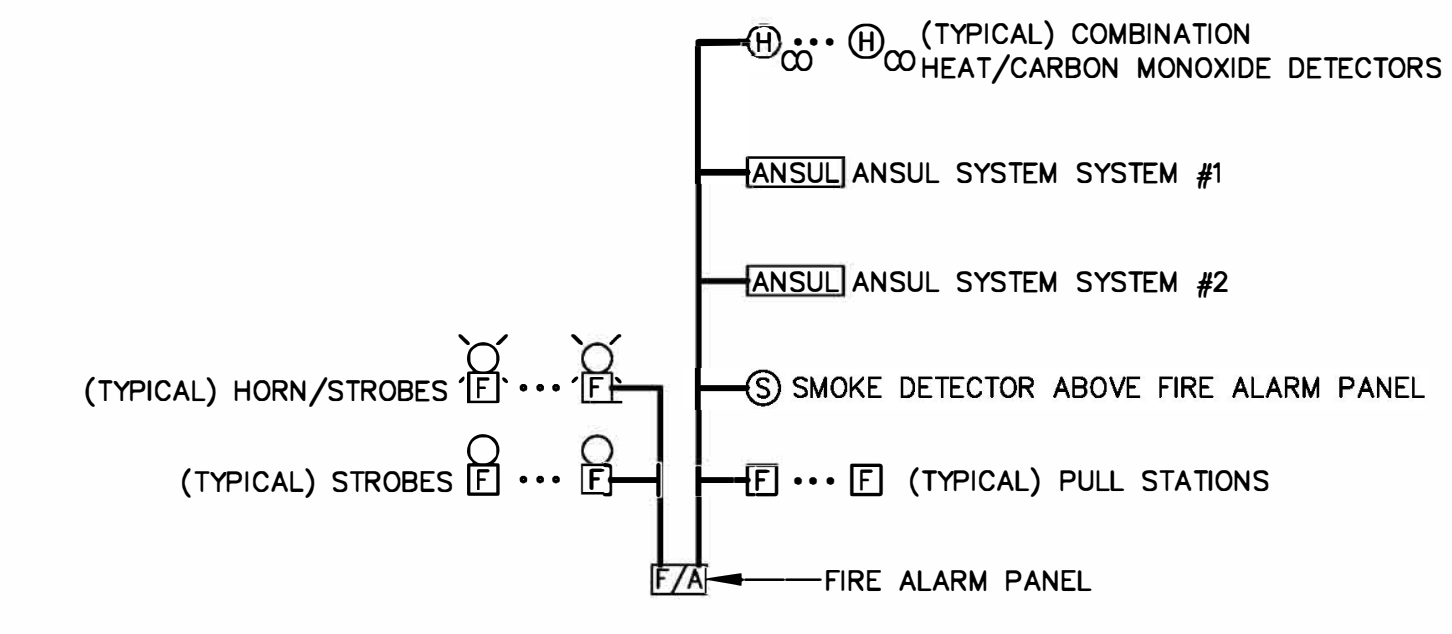
NOTE:  
 1. CONTRACTOR TO PROVIDE PHASE CONVERTER FROM ONE PHASE TO THREE PHASE.  
 2. CONTRACTOR MUST PROVIDE ENGINEERING FOR DESIGN SERVICE CONFIGURATIONS & CONVERTER DESIGN.  
 3. ATLANTIC CITY ELECTRIC WILL PROVIDE NEW SINGLE PHASE TRANSFORMER; SIZE T.B.D.



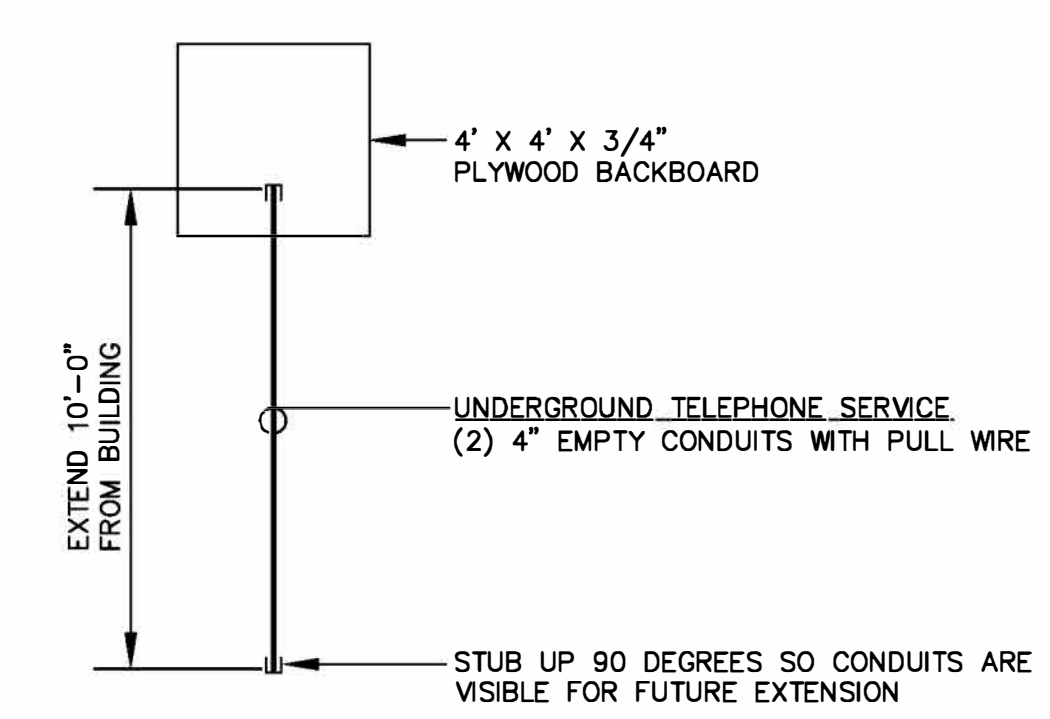
**1 POWER PLAN**  
 E2  
 GRAPHIC SCALE (FEET)



**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

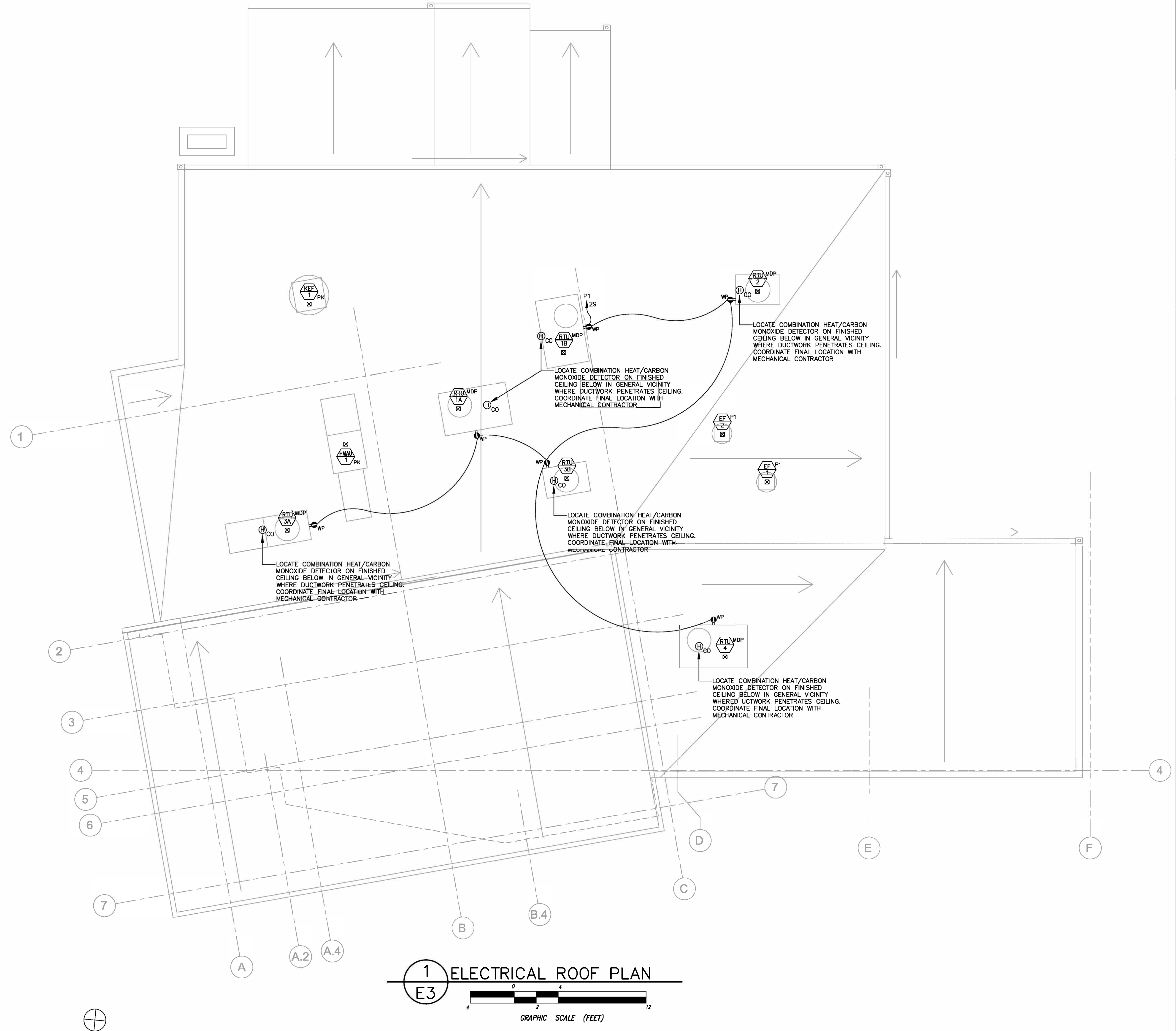


**4 TELEPHONE/DATA CONDUIT RISER**  
 E2  
 SCALE: N.T.S.

**REVIEW SET**  
 2-12-20

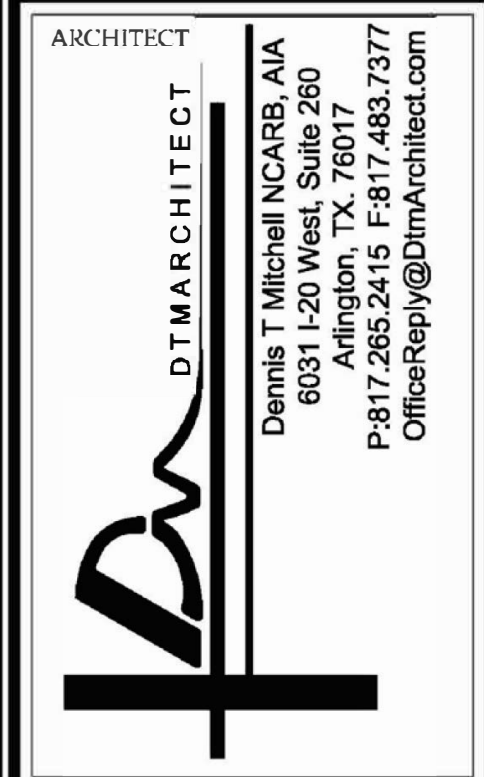
**ELECTRICAL SYMBOL LIST**

- S<sub>3</sub> S<sub>4</sub> 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  $\text{\textcircled{R}}\text{VSTV-**}$  (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  $\text{\textcircled{R}}\text{P9-DV}$  POWER PACK(S) AS REQUIRED TO FACILITATE LOAD
- S<sub>OC</sub> 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 m<sup>2</sup> (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  $\text{\textcircled{R}}\text{ONW-D-1001-MV-*$  (OR APPROVED EQUAL)
- S<sub>OC</sub> 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 m<sup>2</sup> (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
- S<sub>EXIT</sub> EXIT SIGN, TYPE ("EXIT" UNLESS INDICATED OTHERWISE) AS INDICATED ON THE SUPPLEMENTAL LIGHTING FIXTURE SCHEDULE
- S<sub>EX/EM</sub> COMBINATION EXIT/EMERGENCY UNIT, TYPE ("EX/EM" UNLESS INDICATED OTHERWISE) AS INDICATED ON THE SUPPLEMENTAL LIGHTING FIXTURE SCHEDULE, WITH INTEGRAL BATTERY BACKUP
- S<sub>EM</sub> EMERGENCY LIGHTING BATTERY UNIT, TYPE ("EM" UNLESS INDICATED OTHERWISE) AS INDICATED ON THE SUPPLEMENTAL LIGHTING FIXTURE SCHEDULE
- S<sub>EL</sub> REMOTE EMERGENCY LIGHTING HEAD, TYPE AS INDICATED ON THE SUPPLEMENTAL LIGHTING FIXTURE SCHEDULE
- S<sub>20A</sub> 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
- S<sub>20A</sub> 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
- S<sub>20A</sub> 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
- S<sub>QD</sub> QUADRUPEX ("DOUBLE DUPLEX") RECEPTACLE, WITH RECEPTACLE TYPE AS INDICATED
- S<sub>EQ</sub> EQUIPMENT CONNECTION, REFER TO THE EQUIPMENT SCHEDULE OR KITCHEN EQUIPMENT CONNECTION SCHEDULE AND THE EQUIPMENT NOTES FOR INFORMATION
- S<sub>ED</sub> EQUIPMENT DESIGNATION, FOR REFERENCE TO THE EQUIPMENT SCHEDULE
- S<sub>KE</sub> KITCHEN EQUIPMENT DESIGNATION, FOR REFERENCE TO THE EQUIPMENT SCHEDULE
- S<sub>EL</sub> ELECTRICAL PANEL, REFER TO THE SINGLE LINE DIAGRAM AND RESPECTIVE PANEL SCHEDULE
- S<sub>J</sub> ELECTRICAL JUNCTION BOX (J-BOX), AS INDICATED ON THE DRAWINGS, WHERE JUNCTION BOX SERVES EQUIPMENT, PROVIDE COMPLETE EQUIPMENT CONNECTIONS AS REQUIRED
- S<sub>PC</sub> PHOTOCELL (PC), REFER TO SPECIFICATIONS, WALL MOUNTED
- S<sub>HR</sub> INDICATES HOME RUN OF WIRING TO PANEL AND CIRCUIT INDICATED
- S<sub>PC</sub> INDICATES PASS CIRCUIT THROUGH PHOTOCELL (-PC-)
- S<sub>TO</sub> 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
- S<sub>GAN</sub> EMERGENCY GENERATOR REMOTE ANNUNCIATOR PANEL (GAN), EXACT TYPE TO MATCH EMERGENCY GENERATOR, FLUSH MOUNTED, REFER TO THE SINGLE LINE DIAGRAM AND THE SPECIFICATIONS
- S<sub>F/A</sub> 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
- S<sub>ANN</sub> 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
- S<sub>AV</sub> FIRE ALARM AUDIO/VISUAL HORN/STROBE, ADA APPROVED TYPE PROVIDING ADA APPROVED COVERAGE, WITH SYNCHRONIZED TYPE STROBE, SEMI-FLUSH MOUNTED
- S<sub>V</sub> FIRE ALARM VISUAL ONLY STROBE, ADA APPROVED TYPE PROVIDING ADA APPROVED COVERAGE, SYNCHRONIZED TYPE, FLUSH MOUNTED
- S<sub>M</sub> FIRE ALARM MANUAL PULL STATION, METAL, NON-CODED, DOUBLE ACTION TYPE, FLUSH MOUNTED, ADDRESSABLE TYPE
- S<sub>A</sub> FIRE ALARM SMOKE DETECTOR, ADDRESSABLE ANALOG PHOTOELECTRIC TYPE, WITH SUITABLE BASE
- S<sub>S</sub> FIRE ALARM COMBINATION SMOKE AND CARBON MONOXIDE (CO) DETECTOR (S)CO, ADDRESSABLE ANALOG PHOTOELECTRIC TYPE, WITH SUITABLE BASE
- S<sub>H/CO</sub> FIRE ALARM COMBINATION HEAT AND CARBON MONOXIDE (CO) DETECTOR (H)CO, ADDRESSABLE ANALOG PHOTOELECTRIC TYPE, WITH SUITABLE BASE
- S<sub>D</sub> 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.G. 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



**1 ELECTRICAL ROOF PLAN**  
**E3**  
 GRAPHIC SCALE (FEET)

**REVIEW SET**  
 2-12-20



ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

**ARCHITECT'S SEAL:**

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

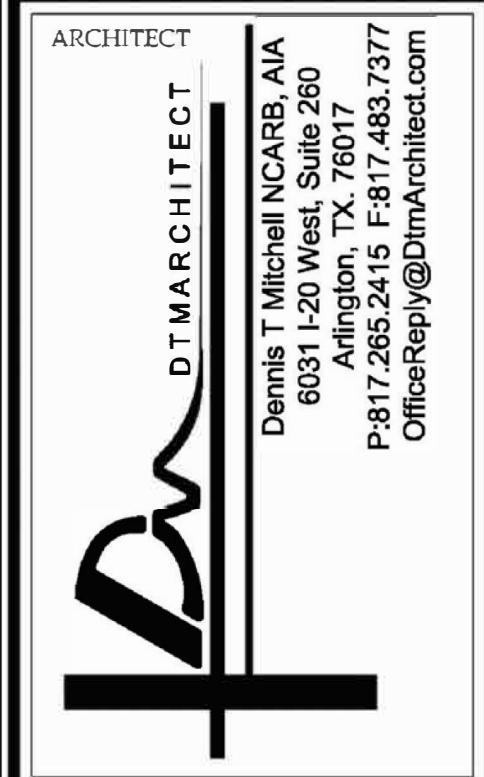
**MEP ENGINEER:**  
**PSP ASSOCIATES**  
 1105 MELLINI DRIVE  
 DOWNTOWNTOWN, PA 19335

**MULHREN 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

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

**TITLE:**  
**DWG. NO. E3**  
 DRAWN BY: KMT  
 APPROVED BY: TWM  
 SCALE: AS NOTED  
 JOB#: 1610-021



ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

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

**MFP ENGINEER:**

**PSP ASSOCIATES**  
 1105 MILLIEN DRIVE  
 DOWNTOWNTOWN, PA 19335

**MULHREN 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

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

TITLE: ELECTRICAL NOTES & DETAILS  
 DWG. NO. E4  
 APPROVED BY: TWM  
 DRAWN BY: KMT  
 SCALE: AS NOTED  
 JOB#: 1610-021

KITCHEN EQUIPMENT CONNECTION SCHEDULE

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
N-103	# N-103 REACH-IN REFRIGERATOR	120V-1PH	696		20/1	PK	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	
N-104	# N-104 TYPICAL SINGLE DOOR REACH-IN FREEZER	120V-1PH	864		20/1	PK/PKS	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	
N-105	# N105 ICE CUBER	120V-1PH	1,656		20/1	PK	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	
N-110	# N-110 SANDWICH UNIT	120V-1PH	1,236		20/1	PK	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	
N-112	# N-112 HEATED CABINET	120V-1PH	1,440		20/1	PK	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	
N-113	# N-113 TYPICAL PIZZA CONVEYOR OVEN	208V-1PH	10,080		60/2	PK	N/A	60/2	4 # 6, 3/4"	
N-114	# N-114 REACH-IN REFRIGERATOR	120V-1PH	948		20/1	PK	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	SHUT-DOWN BY ANSUL SEE NOTE #3
N-115	# N-115 PIZZA PREP TABLE	120V-1PH	948		20/1	PK	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	
N-117	# N-117 TYPICAL HEATED PIZZA SHELF	120V-1PH	648		20/1	PK	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	
N-118	# N-118 TYPICAL FRYER BATTERY	120V-1PH	756		20/1	PKS	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	SHUT-DOWN BY ANSUL SEE NOTE #3
N-119	# N-119 FRY DUMP STATION	120V-1PH	756		20/1	PKS	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	SHUT-DOWN BY ANSUL SEE NOTE #3
N-127	#N-127 TYPICAL DISPLAY MERCHANDISER	120V/208V-1PH	2,688		20/2	PK	L14-20P	N/A	4 # 10, 3/4"	
N-128	#N-128 REACH-IN UNDERCOUNTER FREEZER	120V-1PH	960		20/1	PK	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	
N-129	# N-129 HOT DOG GRILL	120V-1PH	1,468		20/1	PK	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	
N-153	#N-153 COUNTERTOP BRIDLE	120V-1PH	1,500		20/1	PKS	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	SHUT-DOWN BY ANSUL SEE NOTE #3
N-154	#N-154 REFRIGERATED BRIDGE	120V-1PH	1,236		20/1	PKS	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	SHUT-DOWN BY ANSUL SEE NOTE #3
N-155	#N-155 24" CHARBROILER	120V-1PH	1,500		20/1	PKS	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	SHUT-DOWN BY ANSUL SEE NOTE #3
N-157	# N-157 COUNTERTOP HOT PLATE	120V-1PH	1,500		20/1	PKS	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	SHUT-DOWN BY ANSUL SEE NOTE #3
N-158	#N-158 SANDWICH UNIT	120V-1PH	600		20/1	PKS	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	SHUT-DOWN BY ANSUL SEE NOTE #3
N-126	#N-126 TYPICAL SOFT SERVE	120V/208V-1PH	2,496		20/2	PK	6-20P	N/A	4 # 10, 3/4"	
N-131	#N-131 TYPICAL HORIZONTAL CHEST FREEZER	120V-1PH	492		20/1	PK	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	
N-132	# N-132 DUAL TEMP DISPLAY CASE	120V-1PH	960		20/1	PK	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	
N-133	#N-133 CONVECTION OVEN	208V-1PH	3,600		20/2	PK	6-20P	N/A	4 # 10, 3/4"	
N-134	#N-134 HEATED PRETZEL DISPLAY CASE	120V-1PH	1,500		20/1	PK	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	
N-135	#N-135 POPCORN POPPER	120V-1PH	1,500		20/1	PK	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	
N-136	#N-136 WORK TOP REFRIGERATOR	120V-1PH	612		20/1	PK	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	
N-139	#N-139 COFFEE MAKER	120V-1PH	1,500		20/1	PK	5-20R GFI DUPLEX	N/A	4 # 10, 3/4"	
N-152	#N-152 HOT CHOCOLATE	120V-1PH	1,500		20/1	PK	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	
N-130	#N-130 TYPICAL OPEN AIR SCREEN SELF-SERVE REFRIGERATOR	120V/208V-1PH	2,496		20/2	P1	L14-20P	N/A	4 # 10, 3/4"	
N-137	TYPICAL #N-137 ICE DISPENSOR	120V-1PH	1,500		20/1	P1	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	
N-140	#N-140 WATER FILTER SYSTEM FOR SODA DISPENSOR	120V-1PH	1,500		20/1	P1	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	
N-141	#N-141 FOUNTAIN SODA MACHINE	120V-1PH	1,500		20/1	P1	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	
N-142	#N-142 CARBONATOR	120V-1PH	1,500		20/1	P1	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	
N-161	#N-161 SOFT DRINK GRAB AND GO	120V-1PH	1,500		20/1	P1	5-20R GFI DUPLEX	N/A	3 # 12, 3/4"	
N-163	# N-163 DISWASHER	208V-3PH	8,790		30/3	P1	30/3, NEMA 4X	N/A	3 # 8, 1 # 10G, 3/4"	
N-166	# N-166 DISPOSER WITH CONTROL PANEL	208V-3PH	2,161	2	20/3	P1	N/A	CONTROL PANEL	4 # 12, 3/4"	
WI-1	# WI-1 WALK-IN COOLER CONDENSING UNIT	208V-3PH	4,179		20/3	SB	N/A	30/3, WP	3 # 8, 1 # 10G, 3/4"	NOTE # 2
WI-2	# WI-2 WALK-IN COOLER EVAPORATOR	208V-3PH	720		20/3	SB	N/A	30/3, WP	4 # 10, 3/4"	NOTE # 2
WI-3	# WI-3 WALK-IN FREEZER CONDENSING UNIT	208V-1PH	1,539		20/2	SB	N/A	30/2, WP	3 # 10, 3/4"	NOTE # 2
WI-4	# WI-4 WALK-IN FREEZER EVAPORATOR	120V-1PH	200		20/1	SB	N/A	30/1, WP	3 # 10, 3/4"	NOTE # 2
N-124L	# N-124L EXHAUST HOOD LIGHTING	120V-1PH	500	N/A	20/1	PKS	N/A	OIL SWITCH (NOTE #4)	3 # 12, 3/4"	SEE NOTES #3 AND #4
N-124R	# N-124R EXHAUST HOOD LIGHTING	120V-1PH	500	N/A	20/1	PKS	N/A	OIL SWITCH (NOTE #4)	3 # 12, 3/4"	SEE NOTES #3 AND #4
N-124.1	TYPICAL # N-124.1 FIRE SUPPRESSION ANSUL SYSTEM	120V-1PH	500	N/A	20/1	PK	N/A	J-BOX ONLY	3 # 10, 3/4"	SEE NOTE #5
N-124.2	#N-124.2 CONTROL POWER (NON SHUNT TRIP)	120V-1PH	500		20/1	PK	N/A	N/A	3 # 12, 3/4"	
DMB-1	DIGITAL MENU BOARD	120V-1PH	200		20/1	P1	5-20R DUPLEX	N/A	3 # 12, 3/4"	
DMB-2	DIGITAL MENU BOARD	120V-1PH	200		20/1	P1	5-20R DUPLEX	N/A	3 # 12, 3/4"	
DMB-3	DIGITAL MENU BOARD	120V-1PH	200		20/1	P1	5-20R DUPLEX	N/A	3 # 12, 3/4"	

NOTES:

- PRIOR TO ROUGH-IN OR PURCHASING ANY ELECTRICAL EQUIPMENT ASSOCIATED WITH ANY EQUIPMENT SHOWN ON THE SCHEDULE ABOVE, THE E.C. IS FULLY RESPONSIBLE FOR OBTAINING COPIES OF SHOP DRAWINGS FROM THE CONTRACTOR OR PARTY (INCLUDING OWNER, WHERE APPLICABLE) FURNISHING THE EQUIPMENT AND FOR COORDINATING ELECTRICAL CHARACTERISTICS WITH SHOP DRAWINGS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. THE E.C. IS SOLELY RESPONSIBLE FOR THIS COORDINATION AND IS RESPONSIBLE FOR ALL COSTS WHICH MAY RESULT FROM FAILING TO FULLY COORDINATE.
- INCLUDE COSTS TO MOUNT AND WIRE FOUR (4) FOUR FOOT LIGHTING FIXTURES FURNISHED WITH EACH WALK-IN (TOTAL 8)
- WHERE INDICATED ON THE SCHEDULE ABOVE, CONNECT EQUIPMENT TO PANEL "PKS" SO EQUIPMENT IS SHUT-DOWN BY # N-124.1 EXHAUST HOOD FIRE SUPPRESSION "ANSUL" SYSTEM (VA SHUNT TRIP MAIN CIRCUIT BREAKER IN PANEL "PKS")
- FOR # 124.1 AND # 124R EXHAUST HOOD SYSTEM, LOCATE DISCONNECTING MEANS (THERMAL OVERLOAD SWITCH) AS INDICATED ON THE DRAWINGS (OR AS DIRECTED BY THE ARCHITECT AND/OR FOOD SERVICE CONSULTANT IF NOT SHOWN). PROVIDE COMPLETE WIRING WITHIN HOOD FROM DISCONNECTING MEANS TO ALL LUMINAIRES IN HOOD (UTILIZE STEEL RMC ONLY FOR WIRING WITHIN HOOD).
- FOR # 124.1 EXHAUST HOOD FIRE SUPPRESSION "ANSUL" SYSTEM ("ANSUL SYSTEM"), PROVIDE THE FOLLOWING:
  - PROVIDE INCOMING POWER CONNECTION TO THE SYSTEM AS INDICATED ON THE SCHEDULE ABOVE.
  - PROVIDE INTERCONNECTING WIRING BETWEEN THE ANSUL SYSTEM AND THE SHUNT TRIP MAIN CIRCUIT BREAKER IN PANEL "PKS" (WHICH SERVES EQUIPMENT UNDER THE EXHAUST HOOD) AS REQUIRED SO ANSUL SYSTEM ACTIVATION TRIPS THE CIRCUIT BREAKER AND SO THE CIRCUIT BREAKER CANNOT BE RESET UNTIL THE ANSUL SYSTEM IS RESET AND RESTORED.
  - PROVIDE INTERCONNECTING WIRING BETWEEN THE ANSUL SYSTEM AND THE BUILDING FIRE ALARM CONTROL PANEL TO MONITOR BOTH ANSUL SYSTEM ALARM (ACTIVATE A "FIRE ALARM" CONDITION AND SOUND ALARM THROUGHOUT THE BUILDING) AND TROUBLE (ACTIVATE A "TROUBLE" CONDITION FOR THE FIRE ALARM SYSTEM) CONDITIONS.
  - THE MECHANICAL/ATC CONTRACTOR SHALL PROVIDE INTERCONNECTING AND CONTROL WIRING BETWEEN THE ANSUL SYSTEM AND CONTROLS FOR HVAC EQUIPMENT REQUIRED TO BE SHUT-DOWN BY THE ANSUL SYSTEM (INCLUDING COOKING GAS SOLENOID VALVES AND KITCHEN AND EXHAUST HOOD RELATED VENTILATING EQUIPMENT INCLUDING FAN ON/OFF CONTROLS AT HOOD, WHERE REQUIRED). THE M.C. MAY OBTAIN THE 120V POWER SOURCE (TO SUPPLY GAS SOLENOID VALVES) FROM THE 120V BRANCH CIRCUIT POWERING THE ANSUL SYSTEM CONTROL PANEL.
- FOR ALL WALK-IN COOLING BOXES (REFRIGERATORS AND FREEZERS), PROVIDE POWER WIRING AS SHOWN AND AS FOLLOWS:
  - FOR COOLING BOX LIGHTING, LOCATE DISCONNECTING MEANS (THERMAL OVERLOAD SWITCH) AS INDICATED ON THE DRAWINGS (OR AS DIRECTED BY THE ARCHITECT AND/OR FOOD SERVICE CONSULTANT IF NOT SHOWN). PROVIDE COMPLETE WIRING WITHIN COOLING BOX FROM DISCONNECTING MEANS TO ALL LUMINAIRES IN HOOD (UTILIZE ALUMINUM RMC OR PVC COATED STEEL RMC ONLY FOR WIRING WITHIN COOLING BOXES).
  - THE E.C. SHALL PROVIDE 3/4" CONDUIT FROM COOLING BOX CONDENSING UNIT TO COOLING BOX EVAPORATOR UNIT FOR CONTROL WIRING. PROVIDE CONTROL WIRING AS DIRECTED BY THE COOLING BOX SUPPLIER/MANUFACTURER. INCLUDE ALL COSTS IN BID.
  - FOR WALK-IN FREEZERS, THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL HEAT TRACING TAPE ON CONDENSATE LINES AS DIRECTED BY THE COOLING BOX SUPPLIER/MANUFACTURER. POWER HEAT TAPE FROM THE COOLING BOX LIGHTING CIRCUIT, PROTECTED BY A 20A, 120V GFCI SWITCH CONNECTED ON THE LINE SIDE OF THE LIGHTING DISCONNECTING MEANS SWITCH. INCLUDE ALL COSTS IN BID.

EQUIPMENT CONNECTION SCHEDULE

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
RTU-1A	ROOFTOP UNIT	208V-3PH	8646		30/3	MDP	N/A	FURNISHED BY MECHANICAL CONTRACTOR	4 # 10, 3/4"	
RTU-1B	ROOFTOP UNIT	208V-3PH	8646		30/3	MDP	N/A	FURNISHED BY MECHANICAL CONTRACTOR	4 # 10, 3/4"	
RTU-2	ROOFTOP UNIT	208V-1PH	4430		30/2	MDP	N/A	FURNISHED BY MECHANICAL CONTRACTOR	3 # 10, 3/4"	
RTU-3A	ROOFTOP UNIT	208V-3PH	5692		30/3	MDP	N/A	FURNISHED BY MECHANICAL CONTRACTOR	4 # 10, 3/4"	
RTU-3B	ROOFTOP UNIT	208V-3PH	5692		30/3	MDP	N/A	FURNISHED BY MECHANICAL CONTRACTOR	4 # 10, 3/4"	
RTU-4	ROOFTOP UNIT	208V-3PH	8646		30/3	MDP	N/A	FURNISHED BY MECHANICAL CONTRACTOR	4 # 10, 3/4"	
EF-1	EXHAUST FAN	120V-1PH	250		20/1	P1	N/A	FURNISHED BY MECHANICAL CONTRACTOR	3 # 12, 3/4"	
EF-2	EXHAUST FAN	120V-1PH	250		20/1	P1	N/A	FURNISHED BY MECHANICAL CONTRACTOR	3 # 12, 3/4"	
HD-T	TYPICAL HAND DRYER	120V-1PH	900		20/1	P1	N/A	J-BOX	3 # 12, 3/4"	
HWH-1	SAS HOT WATER HEATER	120V-1PH	500		20/1	P1	N/A	OIL SWITCH	3 # 12, 3/4"	
GB-1	GENSET, ENGINE BLOCK HEATER	208V-1PH	4,000	N/A	30/2	SB	N/A	30/2, WP	3 # 8, 3/4" C	SEE NOTE # 2
GC-1	GENSET, BATTERY CHARGER	120V-1PH	200	N/A	20/1	SB	N/A	J-BOX ONLY	3 # 8, 3/4" C	SEE NOTE # 2
GH-1	GENSET, BATTERY HEATER	208V-1PH	1,000	N/A	20/2	SB	N/A	30/2, WP	3 # 10, 3/4" C	SEE NOTE # 2
GS-1	GENSET, STRIP HEATER	208V-1PH	2,000	N/A	20/2	SB	N/A	30/2, WP	3 # 10, 3/4" C	SEE NOTE # 2
KEF-1	KITCHEN EXHAUST FAN	208V-3PH	3,134	3	20/3	PK	N/A	30/3, WP	4 # 10, 3/4"	PASS THROUGH KITCHEN HOOD SYSTEM
HMAU-1	MAKE-UP AIR UNIT	208V-3PH	3,134	3	20/3	PK	N/A	30/3, WP	4 # 10, 3/4"	PASS THROUGH KITCHEN HOOD SYSTEM

NOTES:

- PRIOR TO ROUGH-IN OR PURCHASING ANY ELECTRICAL EQUIPMENT ASSOCIATED WITH ANY EQUIPMENT SHOWN ON THE SCHEDULE ABOVE, THE E.C. IS FULLY RESPONSIBLE FOR OBTAINING COPIES OF SHOP DRAWINGS FROM THE CONTRACTOR OR PARTY (INCLUDING OWNER, WHERE APPLICABLE) FURNISHING THE EQUIPMENT AND FOR COORDINATING ELECTRICAL CHARACTERISTICS WITH SHOP DRAWINGS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. THE E.C. IS SOLELY RESPONSIBLE FOR THIS COORDINATION AND IS RESPONSIBLE FOR ALL COSTS WHICH MAY RESULT FROM FAILING TO FULLY COORDINATE.
- WHERE INDICATED ON THE SCHEDULE ABOVE, ELECTRICAL CHARACTERISTICS FOR GENERATOR ACCESSORY EQUIPMENT ARE APPROXIMATE AS A GUIDE TO PRICING. EXACT ELECTRICAL CHARACTERISTICS FOR THIS EQUIPMENT VARIES FOR DIFFERENT TYPES, SIZES, AND MANUFACTURERS OF GENERATOR SETS. PROVIDE COMPLETE WIRING TO EQUIPMENT AS REQUIRED TO FACILITATE EQUIPMENT ACTUALLY INSTALLED. COORDINATE ALL REQUIREMENTS WITH PROPOSED/POTENTIAL GENERATOR SUPPLIERS BEFORE SUBMITTING BID AND INCLUDE ALL COSTS IN BID.

ELECTRICAL NOTES

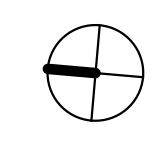
- PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE LATEST ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC), OSHA REQUIREMENTS, ALL FEDERAL, STATE, AND LOCAL CODES AND ALL OWNER REQUIREMENTS.
- INCLUDE ALL TEMPORARY POWER AND LIGHTING, PERMIT, LICENSE, AND INSPECTION COSTS IN BID.
- VERIFY EXACT LOCATIONS AND MOUNTING OF ALL LUMINAIRES, SWITCHES, RECEPTACLES, OUTLETS, FIRE ALARM, AND OTHER EQUIPMENT WITH ARCHITECTURAL DRAWINGS AND IN THE FIELD PRIOR TO ROUGH IN.
- VERIFY ELECTRICAL RATINGS, CONNECTION REQUIREMENTS, AND EXACT LOCATIONS OF ALL MECHANICAL, KITCHEN, MANUFACTURING, AND OTHER UTILIZATION EQUIPMENT (WHERE APPLICABLE) IN FIELD PRIOR TO PURCHASING ASSOCIATED ELECTRICAL EQUIPMENT. PROVIDE A COMPLETE AND WORKING INSTALLATION.
- THE TERM "PROVIDE" MEANS, "FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR", AND THE TERMS "CONTRACTOR" AND "E.C." MEAN "ELECTRICAL CONTRACTOR", UNLESS INDICATED OTHERWISE. ALL WORK INDICATED ON THE ELECTRICAL DRAWINGS AND ELECTRICAL SPECIFICATIONS IS BY THE E.C. (UNLESS INDICATED OTHERWISE) AND IS NEW (UNLESS INDICATED OTHERWISE). WHERE THE PROJECT IS PERFORMED BY MULTIPLE PRIME CONTRACTORS UNDER "MULTIPLE PRIME BIDS" THIS DESIGNATES THE WORK BY THE ELECTRICAL PRIME CONTRACTOR. WHERE THE PROJECT IS PERFORMED BY A SINGLE OVERALL CONTRACTOR UNDER "LUMP SUM BIDS" THIS APPROXIMATELY DESIGNATES THE WORK BY THE ELECTRICAL TRADE SUBCONTRACTOR (EXACT DIVISION OF TRADE SUBCONTRACTOR WORK IS THE SOLE RESPONSIBILITY OF THE SINGLE OVERALL CONTRACTOR; TRADE SUBCONTRACTOR WORK DIVISION SHOWN ON THE DRAWINGS/SPECIFICATIONS IS FOR REFERENCE AND CONVENIENCE ONLY).
- COORDINATE ALL REQUIRED SHUTDOWNS WITH THE OWNER (AND UTILITY COMPANY WHERE APPLICABLE) A MINIMUM OF FOURTEEN (14) DAYS IN ADVANCE. INCLUDE OVERTIME COSTS IN BID TO PERFORM ALL SHUTDOWNS (INCLUDING SHUTDOWNS FOR AREAS WHICH MAY BE UNOCCUPIED DURING CONSTRUCTION) AFTER NORMAL WORKING HOURS AS COORDINATED WITH THE OWNER. NO EXTRA CLAIMS OR COMPENSATION WILL BE GRANTED FOR OVERTIME COSTS ASSOCIATED WITH PERFORMING SHUTDOWNS.
- PROVIDE MOUNTING HEIGHTS OF EQUIPMENT AS REQUIRED BY ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND STANDARDS, INCLUDING ALL APPLICABLE DISABLED (HANDICAPPED) ACCESS CODES AND THE AMERICANS WITH DISABILITIES ACT (ADA). CONTACT ANY AND ALL AUTHORITIES HAVING JURISDICTION TO VERIFY REQUIRED MOUNTING HEIGHTS.
- VERIFY ALL UTILITY (ELECTRIC, TELEPHONE, DATA, CABLE TELEVISION, ETC. WHERE APPLICABLE) REQUIREMENTS IN WRITING WITH EACH UTILITY. OBTAIN APPROVALS FROM ALL UTILITIES (INCLUDING SUBMITTING ANY REQUIRED SERVICE APPLICATIONS AND SHOP DRAWINGS ON SERVICE-RELATED UTILITIES) PRIOR TO ROUGH-IN OR PURCHASING ANY SERVICE RELATED EQUIPMENT. THE ELECTRICAL CONTRACTOR IS SOLELY RESPONSIBLE TO FULLY COORDINATE AND VERIFY SERVICE REQUIREMENTS WITH UTILITY COMPANIES (INCLUDE ALL COSTS IN BID). NO EXTRA CLAIMS OR COMPENSATION WILL BE GRANTED UNDER ANY CIRCUMSTANCE ASSOCIATED WITH FAILURE TO FULLY COORDINATE WITH OR OBTAIN FULL APPROVALS FROM UTILITY COMPANIES.
- FOR ALL WIRING AND WORK INDICATED, INCLUDING ALL SYSTEMS (POWER, LIGHTING, FIRE ALARM, CONTROL, SIGNAL, SOUND, TELECOMMUNICATIONS, DATA, AND ALL OTHER SYSTEMS, WHERE APPLICABLE), PROVIDE ALL NEW CONDUITS, RACEWAYS, OUTLETS, AND CONDUCTORS, INCLUDE ALL COSTS IN BID. WHERE EXISTING CONDUITS AND RACEWAYS ARE DETERMINED BY THE ENGINEER TO BE IN ADEQUATE CONDITION, AND WHERE SPECIFICALLY APPROVED BY THE OWNER, ARCHITECT, AND ENGINEER, EXISTING CONDUITS AND RACEWAYS MAY BE REUSED. PROVIDE A SEPARATE GROUNDING CONDUCTOR, IN ADDITION TO ALL OTHER GROUNDING CONDUCTORS SPECIFIED, AND BOND TO ALL RACEWAYS, CONDUITS, BOXES, AND OUTLETS WHERE RACEWAYS ARE REUSED. DO NOT DEPEND ON EXISTING CONDUITS/RACEWAYS FOR GROUNDING PATHS. REUSE EXISTING CONDUCTORS ONLY WHERE SPECIFICALLY INDICATED ON THE DRAWINGS.
- PROVIDE ENGRAVED LAMINATED PLASTIC NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT (INCLUDING, BUT NOT LIMITED TO, SAFETY SWITCHES, ENCLOSED CIRCUIT BREAKERS, BRANCH PANELS, DISTRIBUTION PANELS/SWITCHBOARDS, FUSED EQUIPMENT, POWER OUTLETS, THERMAL OVERLOAD SWITCHES, PHOTOVOLTAIC BREAKER SOCKETS, FIRE ALARM DEVICES, LIGHTING CONTROLLERS, GENERATORS, MOTOR CONTROL CENTERS, MOTOR CONTROLS, SWITCHES AND RECEPTACLES SERVING EQUIPMENT, ETC., WHERE APPLICABLE), REFER TO SPECIFICATIONS FOR INFORMATION. PROVIDE ENGRAVED PLASTIC NAMEPLATES FOR ALL CONVENIENCE RECEPTACLES.
- PROVIDE ALL NEW FIRE ALARM VISUAL SIGNALING DEVICES (VISUAL ALL STROBES AND STROBE PORTIONS OF COMBINATION HORN/STROBES) AS SYNCHRONIZED. PROVIDE ALL VISUAL SIGNALING DEVICES LOCATED IN THE SAME ROOM OR OTHERWISE WITHIN SIGHT SYNCHRONIZED TOGETHER (I.E. CONTROLLED BY A COMMON SYNCHRONIZING MODULE). PROVIDE ALL DEVICES OF THIS TYPE FACILITATING SYNCHRONIZING AND PROVIDE ALL SIGNALING CIRCUITS INCLUDING SYNCHRONIZING CONTROLLERS AS REQUIRED. EXISTING VISUAL SIGNALING DEVICES ARE NOT REQUIRED TO SYNCHRONIZE WITH NEW DEVICES (UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS).

EQUIPMENT CONNECTION NOTES

- EXACT DETAILS OF EQUIPMENT CONNECTIONS ARE NOT INDICATED ON THE ELECTRICAL FLOOR PLAN DRAWINGS. EQUIPMENT CONNECTIONS DETAILS ARE INDICATED ON THE EQUIPMENT CONNECTION SCHEDULE AND THE ELECTRICAL DRAWINGS. APPROXIMATE EQUIPMENT LOCATIONS ONLY ARE INDICATED ON THE FLOOR PLAN DRAWINGS.
- THE EQUIPMENT SCHEDULES INDICATE THE EQUIPMENT NAMEPLATE ELECTRICAL CHARACTERISTICS (VOLTAGE, PHASE, AND LOAD AS WELL AS HORSEPOWER, WHERE APPLICABLE), PANEL BREAKER AMPS, LOCAL DISCONNECTING MEANS (CORD-AND-PLUG [INCLUDING NEMA CONFIGURATION] OR SWITCH), AND CIRCUIT WIRE AND CONDUIT.
- 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.
- ELECTRICAL INFORMATION SHOWN IS BASED ON NAMEPLATE AND/OR CATALOG CUT INFORMATION, AND IS ACCURATE TO THE BEST OF THE KNOWLEDGE OF THE ENGINEER AND OWNER. HOWEVER, NO GUARANTEES ARE MADE TO ITS ACCURACY. VERIFY EXACT ELECTRICAL OPERATING, AND CONNECTION CHARACTERISTICS AND REQUIREMENTS IN THE FIELD PRIOR TO PURCHASING ASSOCIATED ELECTRICAL EQUIPMENT (PANEL BRANCH CIRCUIT BREAKERS, RECEPTACLES, SWITCHES, ETC.) AND PRIOR TO PULLING WIRING IN CONDUITS AND/OR ROUGHING-IN CABLE WIRING METHODS (WHERE PERMITTED).
- PROVIDE CIRCUIT BREAKERS IN PANELS AS PER THE BREAKER AMPS ON THE EQUIPMENT SCHEDULES. FOR EXACT CIRCUITING AND CONNECTIONS AT PANELS, REFER TO THE APPROPRIATE PANEL SCHEDULES.
- PROVIDE ALL EQUIPMENT WITH A LOCAL DISCONNECTING MEANS, CONSISTING OF ONE OF THE FOLLOWING, AS INDICATED ON THE EQUIPMENT SCHEDULE (OR AS OTHERWISE VERIFIED IN THE FIELD).
  - CORD-AND-PLUG CONNECTED EQUIPMENT: PROVIDE RECEPTACLE OF NEMA CONFIGURATION OR SPECIFIC TYPE INDICATED ON THE EQUIPMENT SCHEDULE. PROVIDE SINGLE RECEPTACLES UNLESS INDICATED AS DUPLEX (DUP.), QUADRUPLX (QUAD.), OR OTHERWISE NOTED. PROVIDE RECEPTACLE TYPES COMPATIBLE WITH PLUG TYPES ON EQUIPMENT CORDS, VERIFY IN FIELD. LOCATE RECEPTACLE NEAR EQUIPMENT AS REQUIRED. WHERE EQUIPMENT CORD IS NOT LONG ENOUGH TO REACH RECEPTACLE (OR WHERE EQUIPMENT DOES NOT INCLUDE CORD), PROVIDE A NEW CORD AND PLUG (TO MATCH EXISTING) AS REQUIRED. PROVIDE MAXIMUM CORD LENGTH NOT EXCEEDING 1.8 m (6'0").
  - THERMAL OVERLOAD SWITCH (O/L SWITCH, MANUAL MOTOR STARTER): FOR ALL DIRECT CONNECTED (WITHOUT CORD AND PLUG) EQUIPMENT RATED 120 V AND 20 A OR LESS, PROVIDE A HORSEPOWER RATED THERMAL OVERLOAD SWITCH LOCATED AT OR ADJACENT TO THE EQUIPMENT. WHERE EQUIPMENT IS NOT POWERED OR IS POWER OPERATED BY SOURCES OTHER THAN ELECTRICITY (I.E. PNEUMATIC OPERATION, GAS FIRED, ETC.) AND WHERE ELECTRICITY IS REQUIRED ONLY FOR LOW VOLTAGE OR SOLID STATE CONTROLS, A SINGLE 120V/277 V SWITCH MAY BE UTILIZED.
  - DISCONNECT SWITCH: FOR ALL DIRECT CONNECTED EQUIPMENT OVER 120 V (EXCEPT 277 V SINGLE-PHASE EQUIPMENT) OR OVER 20 A, PROVIDE A SUITABLE HEAVY DUTY SAFETY SWITCH. PROVIDE AMPERE RATING AND POLES AS PER THE EQUIPMENT SCHEDULES. PROVIDE SWITCHES OF THE UN-FUSED TYPE, EXCEPT WHERE FUSE SIZES (AFU) ARE INDICATED ON THE SCHEDULE. PROVIDE FUSED DISCONNECT SWITCHES WITH FUSES WHERE INDICATED ON THE SCHEDULE. WHERE INDICATED AS (ECB), PROVIDE AN ENCLOSED CIRCUIT BREAKER WITH TRIP RATING AS SHOWN.
  - HARD WIRED DIRECT CONNECTION (J-BOX ONLY): FOR ALL







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

PROGRESS  
2-12-20

ARCHITECT  
**DT MARCHITECT**  
 Dennis T. Mitchell N.C.A.R.B., AIA  
 6001 L-20 West, Suite 280  
 Philadelphia, PA 19147  
 P-817.265.2415 F-817.483.7377  
 OfficeReply@DtMarchitect.com

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

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

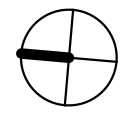
MEP ENGINEER:  
**PSP ASSOCIATES**  
 1105 MELLLEN DRIVE  
 DOWNINGTOWN, PA 19335

MULHERN CONSULTING ENGINEERS  
 321 SOUTH YORK ROAD  
 HATBORO, PA 19040

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

**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  
2-12-20

ARCHITECT  
**DTM ARCHITECT**  
Dennis T. Mitchell N.C.R.B., AIA  
6001 L-20 West, Suite 260  
Hatboro, PA 19040  
P-817.265.2415 F-817.483.7377  
OfficeReply@DtmArchitect.com

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

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

MEP ENGINEER:  
**PSP ASSOCIATES**  
1105 MELLIEU DRIVE  
DOWNTOWN, PA 19335

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

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

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

DESIGNER:

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

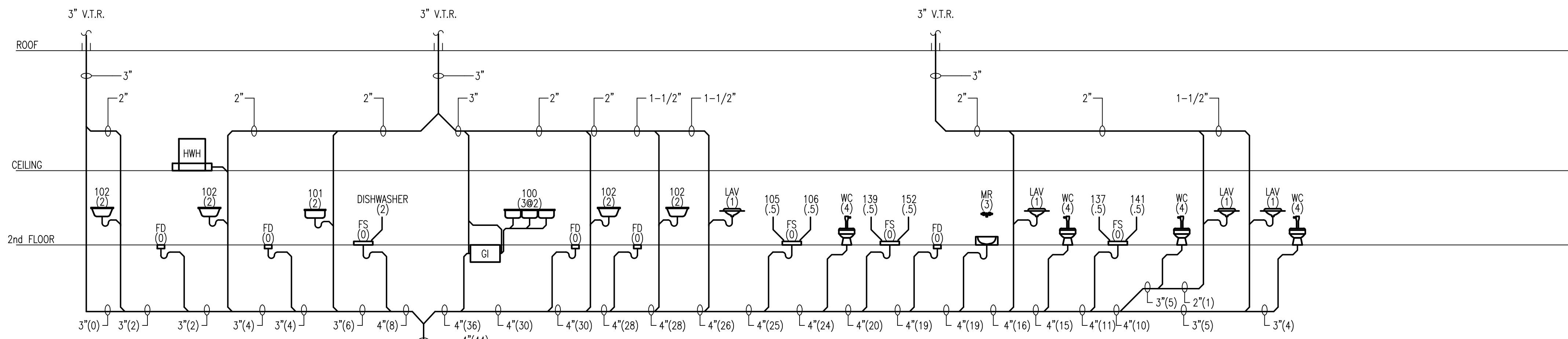
MEP ENGINEER:

**PSP ASSOCIATES**  
 1105 MELLLEN DRIVE  
 DOWNINGTOWN, PA 19335

**MULHERN CONSULTING ENGINEERS**  
 321 SOUTH YORK ROAD  
 HATBORO, PA 19040

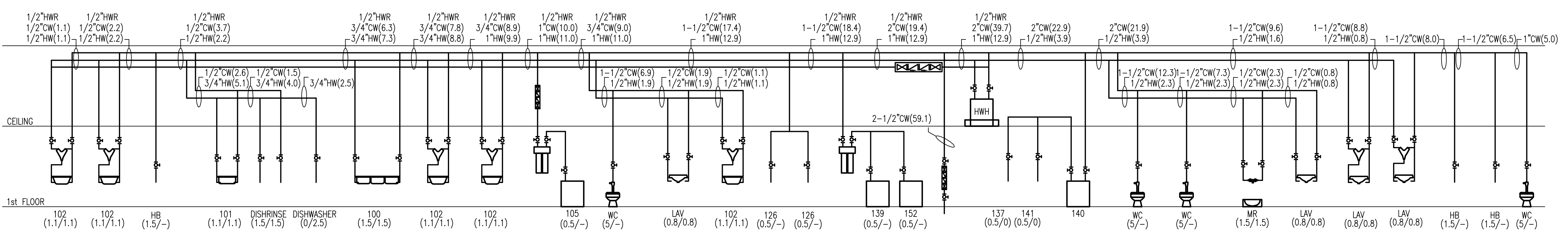
STRUCTURAL ENGINEER:

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

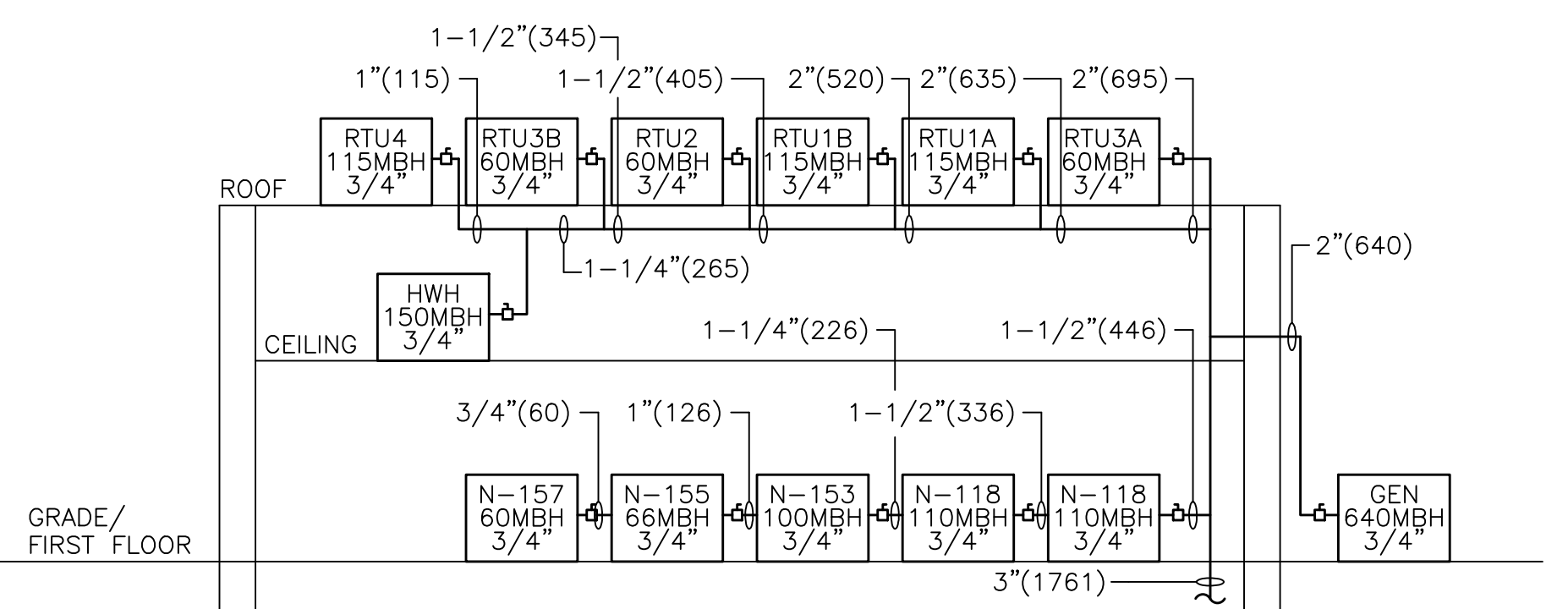


SANITARY RISER DIAGRAM NOTES:  
 1. DRAINAGE FIXTURE UNITS SHOWN IN 0  
 2. ALL PIPING SLOPED 1/8" PER FOOT UNLESS NOTED OTHERWISE

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.

**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

**PROGRESS**  
 2-12-20

ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS MAY BE COPIED, REPRODUCED OR USED IN CONNECTION WITH ANY WORK, OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ARCHITECT'S SEAL:

DESIGNER:

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

MEP ENGINEER:

**PSP ASSOCIATES**  
 1105 MELLIEU 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

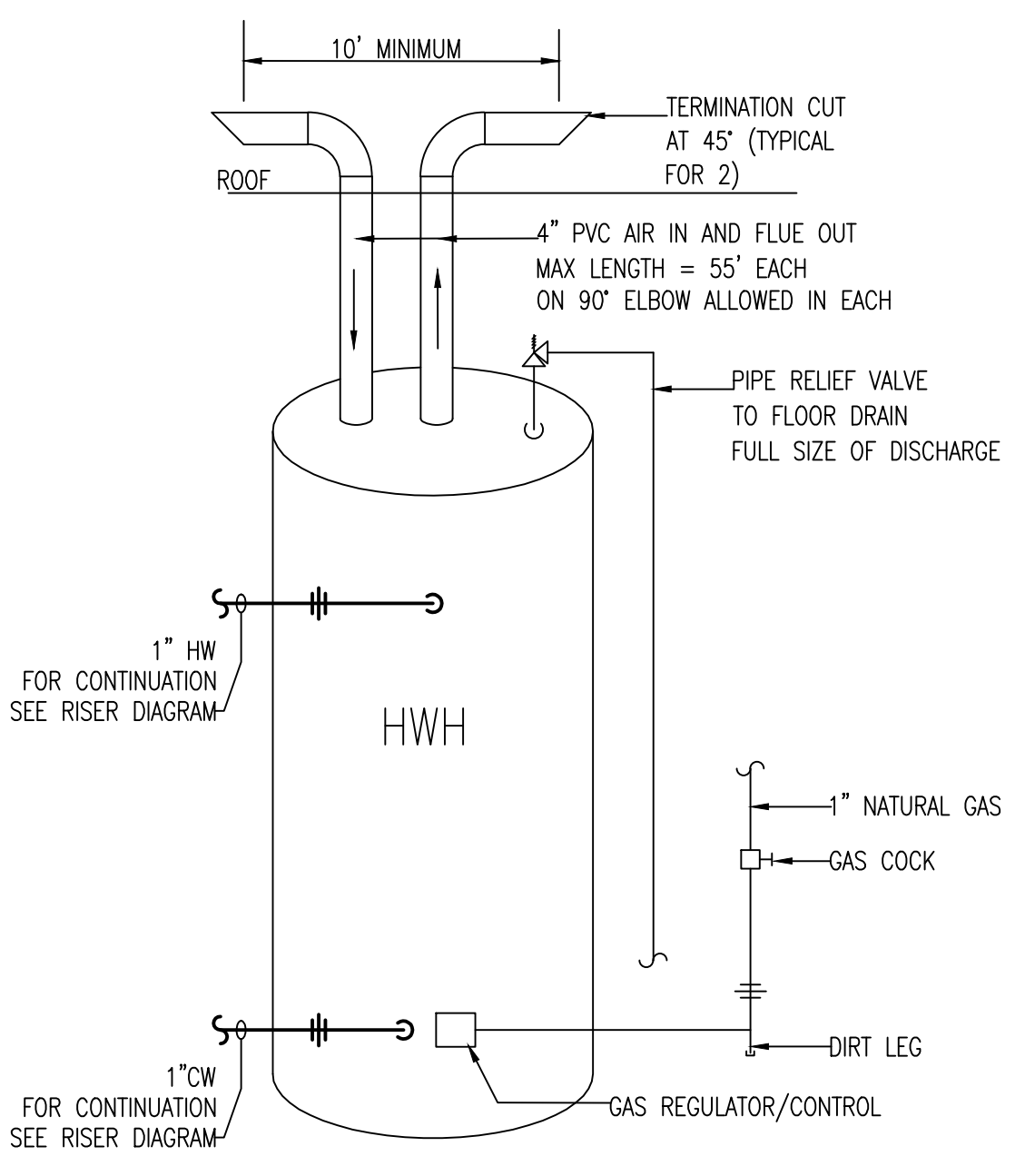
TITLE:  
**SCHEDULE, NOTES &  
 SPECIFICATIONS**  
 DWG. NO.  
**P-4**

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 SPID. 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-TOP-4 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 110,000 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 #P867COH	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"
HHW	BRADFORD WHITE PDV-80S-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 BIB	3/4"		

- LEGEND**
- SANITARY PIPING
  - VENT PIPING
  - CW - COLD WATER PIPING
  - HW - HOT WATER PIPING
  - HWR - HOT WATER RETURN PIPING
  - 140 - 140°F HOT WATER PIPING
  - BALL VALVE
  - GLOBE VALVE
  - FLOW CONTROL VALVE
  - CHECK VALVE
  - BACKFLOW PREVENTER
  - UNION
  - FROST PROOF HOSE BIBB
  - FLOOR CLEANOUT
  - (E) EXISTING
  - FD FLOOR DRAIN
  - LAV LAVATORY
  - SK SINK
  - MR MOP RECEPTOR
  - SH SHOWER
  - WC WATER CLOSET
  - EWC ELECTRIC WATER COOLER
  - SAN SANITARY
  - VTR VENT THRU ROOF
  - V VENT
  - HWH HOT WATER HEATER
  - POINT OF NEW CONNECTION TO EXISTING
  - TERMINATION POINT OF DEMOLITION



**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 Taracorp 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 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.

**PROGRESS**  
 2-12-20