OUTSEAL BRIDDING CLASSITICATIONS  1	A.	TY OF LE V LOADS		
3. IEE BIPROFRANCE PRIVIDAD.   1.00  1.00 FF.   1.00  1.0		1.	RISK CATEGORY	
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RODU ERAD WILL LOWS 1 DEAD LOAD TOT CHORD 2 PER 3 LEVE LOAD TOT CHORD 3 LEVE LOAD TOT CHORD 3 LEVE LOAD TOT CHORD 4 LEVE LOAD TOT CHORD 5 LEVE LOAD TOT CHORD 5 LEVE LOAD TOT CHORD 6 LEVE LOAD TOT CHORD 6 LEVE LOAD TOT CHORD 6 LEVE LOAD TOT CHORD 7 LEVE LOAD TOT CH	В.	SLAB O 1.	N GRADE FLOOR LOADS LIVE LOAD	100 PSF
DEDICADA BOTT, CHORD  2 NEW COAD TO CHORD  3 PSP  3 LIVER COAD TO CHORD  4 OF THE CHORD  5 PSP  3 LIVER COAD TO CHORD  5 PSP  3 LIVER COAD TO CHORD  5 PSP  1 GROUP SHOW LOADS, P.  2 PSP  1 FROM THE CHORD  5 PSP	C.			
4. LIVELIDUO SOLO CHORD  ROCE SHOW LOOKS  1. CONTROL CONTROL  2. PART FOOD SHOW LOAD, P.  3. SHOW POPSINE FACTOR, C.  4. THERMAN PACTOR, C.  4. THERMAN PACTOR, C.  4. THERMAN PACTOR, C.  5. DINTERNAL PACTOR, C.  5. DINTERNAL PACTOR, C.  5. DINTERNAL PACTOR, C.  6. DINTERNAL PACTOR, C.  7. LOOK LOOK BERNALD STATE OF THE CONTROL CHORD STATE OF THE CORP.  WIND LOAD.		2.	DEAD LOAD BOT. CHORD	5 PSF
1. GROUND SNOW LODG, P. 2. PLATE AND SHOW LODG, C. 3. SLOPE MITCHES, C. 4. THERMAL PACTOR, G. 5. SLOPE MITCHES, G. 5. SLOPE MITCHS, G. 6. SLOPE MITCHES, G.	D.	4.	LIVE LOAD BOT. CHORD	
3. SIOW EMPOSING FACTOR, C. 4. THERMAN PACTOR, G. 5. DESITTING 6. DESI	υ.	1.	GROUND SNOW LOAD, Pg	
6. BRITTING WIND LOADS: WIND CAPENS  1. BROSHE CATEGORY  2. BROSHE CATEGORY  3. STEP CLASS  4. COMPONENTS AND CLADDING PER ASCE 7.16.  3. STEP CLASS  5. S. D. DESCRIPTION OF THE CAPENS  6. SESSINC DESCRIPTION OF THE CAPENS  7. SESSINC CROSE RESISTING SYSTEM  8. DESCRIPTION OF THE CAPENS  8. SESSINC DESCRIPTION OF THE CAPENS  8. SESSINC DESCRIPTION OF THE CAPENS  9. DESCRIPTION OF THE CAPENS  8. DESCRIPTION OF THE CAPENS  8. DESCRIPTION OF THE CAPENS  9. DESCRIPTION OF THE CAPENS  9. DESCRIPTION OF THE CAPENS  10. REPORTS RESORDER COFFICIENT C.  10. REPORTS PROPHER THE CAPENS  11. ARRANGES RESORDER COFFICIENT C.  12. SAME DURATION/100 YEAR RAIN INTENSITY.  13. DESCRIPTION OF THE CAPENS  14. SAME DURATION/100 YEAR RAIN INTENSITY.  15. SAME DURATION/100 YEAR RAIN INTENSITY.  16. SAME DURATION/100 YEAR RAIN INTENSITY.  17. SAME DURATION/100 YEAR RAIN INTENSITY.  18. THE CAPENS PROPHER STATEM OF THE CAPENS  18. THE CAPENS PROPHER STATEM OF THE CAPENS PROPHER THE CAPENS  18. THE CAPENS PROPHER STATEM OF THE CAPENS PROPHER STATEM OF THE CAPENS  18. THE CAPENS PROPHER STATEM OF THE CAPENS  18. THE CAPENS PROPHER STATEM OF THE CAPENS  18		3. 4.	SNOW EXPOSURE FACTOR, Ce	1.00
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FOUNDATIONS FOUNDATIONS ARE DESIGNED TO BEAR ON 2000 PSF FOR STRIP FOOTINGS ON SOIL AND 2400 PSF FOR SPREAP FOOTINGS ON SOIL. COMPTY WITH ALL ASPECTS OF SOILS REPORT "AGG 230378 E" DATED JULY 07, 2023 PREPARED BY ALPHA-OMEGA GEOTIECH, INC. COMPTACTORS SHALL REPORT OF SOILS REPORT "AGG 230378 E" DATED JULY 07, 2023 PREPARED BY ALPHA-OMEGA GEOTIECH, INC. CONTRACTOR SHALL NOTIFY ENISTED FOOTINGS AND FOUNDATIONS THAT ARE IN CONTRACTOR SHALL ROTHY ENIONEER OF ANY UNISUAL SOIL CONDITIONS THAT ARE IN CARRIED THE EAST OF SOIL AND SHALL NOTIFY ENIONEER OF ANY UNISUAL SOIL CONDITIONS THAT ARE IN CARRIED THERE IS A QUESTION OF BRARING CAPACITY.  INCRETE:  CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO LATEST APPLICABLE AMERICAN CONCRETE INSTITUTE DOCUMENTS, ACC 3-03, 353, 66, 35, 313, 314 AND 347 UNLESS NOTED OTHERWISE IN THESE CONTRACT DOCUMENTS.  ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL DEVELOP A 28 DAY COMPRESSIVE STRENGTH AND HAVE MAXIMUM DRY SHRINKAGE PER ASTM CL57 AS FOLLOWS:  1. FOOTINGS, GRADE BEAMS, WALLS, BEAMS, COLLIMINS:  2. SLAB ON GRADE:  3. REFERR TO THE SPECIFICATION FOR AIR-ENTRAINED CONCRETE.  SLABS-ON-GRADE SHALL DEVELOP A 30 DAY COMPRESSIVE STRENGTH AND HAVE MAXIMUM PAY BY ALC DOCUMENTS.  SLABS-ON-GRADE SHALL DEVELOP A 30 DAY COMPRESSIVE STRENGTH THASTIC SHRINKAGE CRACKING IN FRESHLY PLACED CONCRETE. IT IS EXPECTED THAT PRODUCING WORKAGELITY FOR CONCRETE MESS WITH A 90 DAY COMPRESSIVE STRENGTH THASTIC SHRINKAGE CRACKING IN FRESHLY PLACED CONCRETE. IT IS EXPECTED THAT PRODUCING CHEMICAL ADMITTURES.  CONCRETE MIXES WITH A BUSINGMA PAYOLD ON WATER IN FORCE TO LIMIT PLASTIC SHRINKAGE CRACKING IN FRESHLY PLACED CONCRETE. IT IS EXPECTED THAT PRODUCING CHEMICAL SHALL CONTRACT BY A WATER ADMITTURES.  CONCRETE MIXES SWITH A SUBMINIMAL AROUND OF WATER IN FORCE TO THAT PRODUCING CHEMICAL SHALL CONTRACT BY A WATER ADMITTURES.  CONCRETE MIXES SWITH A SUBMINIMAL AROUND OF WATER IN FORCE TO THAT PRODUCING CHEMICAL SHALL DO THE PRODUCE THAT SHALL DATE THE PRODUCING CHEMICAL SHALL BY THE ADMITTURES.  CONCRETE	PROVII UNBAL	DE ADEQ	UATE SHORING DURING CONSTRUCTION TO RESIST	
PSF FOR SPREAD FOOTINGS ON SOIL. COMPTA WITH ALL ASPECTS OF SOILS REPORT "AGG 230378 E" DATED JULY 07, 2023 PREPARED BY ALPHA-OMEGA GEOTECH, INC. CONTRACTOR SHAUL REVOLVE CISTING FOOTINGS AND FOUNDATIONS THAT ARE LOCATED WITHIN THE FOOTPRINT OF THE NEW BUILDING. CONTRACTOR SHAUL NOTIFY ENGINEER OF ANY UNUSUAL SOIL CONDITIONS THAT ARE IN WARRIANCE WITH THE GEOTECHNICAL REPORT OR WHEN DIFFERENT BEARING MATERIAL IS FUDENT AND THREE IS A QUESTION OF BEARING CAPACITY.  INCREASE OF THE SECONTRUCTION SHALL CONFORM TO LATEST APPLICABLE APPLICAN CONCRETE INTITUTE DOCUMENTS, ACI-301, 305, 306, 315, 318, AND 347 UNLESS NOTED OTHERWISE IN THESE CONTRACT DOCUMENTS. ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL DEVELOP A 28 DAY COMPRESSIVE STRENGTH AND HAVE MAXIMUM DRY SHRINKAGE PER ASTM C157 AS FOLLOWS:  1. FOOTINGS, GRADE BEAMS, WALLS, BEAMS, COLUMNS: 2. SLAB ON GRADE: 4. SLAB ON GRADE: 4. SLAB ON GRADE: 5. SLAB SON-GRADE SHALL DEVELOP A 39 DAY COMPRESSIVE STRENGTH THE TOT THE SECLETION FOR AIR-ENTRAINED CONCRETE. 5. SLABS-ON-GRADE SHALL DEVELOP A 39 DAY COMPRESSIVE STRENGTH. 11'S THE INTERY OF THESE CONCRETE SECRETICATIONS THAT THE CONTRACTOR SUPPLY 11'S THE INTERY OF THESE CONCRETE SECRETICATIONS THAT THE CONTRACTOR SUPPLY 11'S THE INTERY OF THESE CONCRETE SECRETICATIONS THAT THE CONTRACTOR SUPPLY 11'S THE INTERY OF THESE CONCRETE SECRETICATIONS THAT THE CONTRACTOR SUPPLY 11'S THE INTERY OF THESE CONCRETE SECRETICATIONS THAT THE CONTRACTOR SUPPLY 11'S THE INTERY OF THESE CONCRETE SECRETICATIONS THAT THE CONTRACTOR SUPPLY 11'S THE INTERY OF THESE CONCRETE SECRETICATIONS THAT THE CONTRACTOR SUPPLY 11'S THE INTERY OF THESE CONCRETE SECRETICATIONS THAT THE CONTRACTOR SUPPLY 11'S THE INTERY OF THESE CONCRETE SECRETICATIONS THAT THE CONTRACTOR SUPPLY 11'S THE INTERY OF THESE CONCRETE MIXES WILL REQUITE THE ADDITION OF WATER REDUCING CONCRETE BUX DESIGNED SHALL INCLUDE ALL APPLICABLE APPLICABLE APPLICABLE 11'S THE THE THAT THE CONTRACTOR SUPPLY 11'S THE SECRETICATION THAT THE CONTRACTOR SUPPLY 11'S THE SECRETICATION THAT THE CONT			ATIONS ARE DESIGNED TO BEAR ON 2000 BGT TO	CTDID EOOTINGS ON COTUAND 2 (2)
PREPARED BY ALPHA-OMEGA GEOTECH, INC. CONTRACTOR SHALL RENOVE XEISTING FOOTINGS AND FOUNDATIONS THAT ARE LOCATED WITHIN THE PROTERINT OF THE NEW BUILDING. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UNUSUAL SOIL CONDITIONS THAT ARE IN VARIANCE WITH THE GEOTECHNICAR REPORT OR WHEN DIFFERENT BEARING MATERIAL IS EVIDENT AND THERE IS A QUESTION OF BEARING CAPACITY.  MICREIE  AMERICAN CONCRETE CONSTRUCTION SHALL COMPORM TO LATEST APPLICABLE  AMERICAN CONCRETE INSTITUTE DOCUMENTS, ACI-301, 305, 306, 315, 318, AND 347 UNILESS NOT ED OTHERWISES. SHALL DEVELOP A 28 DAY COMPRESSIVE  STRINGTH AND HAVE MAXIMUM DRY SHRINKAGE EER ASTM CLIP'AS FOLLOWS:  1. POOTITIOS, GRADE BEANS, WALLS, BEANS, COLLIMNS: 4000 PSI (DS MAX 0.05%)  2. SLAB ON GRADE: 4000 PSI (DS MAX 0.05%)  3. REFER TO THE SPECIFICATION FOR AIR-ENTRAINED CONCRETE.  SLABS-ON-GRADE SHALL DEVELOP A 30 DAY COMPRESSIVE STRENGTH.  IT IS THE INTERNOT OF THESE CONCRETE SECRETICATIONS THAT THE CONTRACTOR SUPPLY CONCRETE IN ESECUTION.  CONCRETE MIXES WITH A MINIMUM AMOUNT OF WATER IN ORDER TO LIMIT FLASTIC.  SHRINKAGE CRACKINS IN HESENLY PLACED CONCRETE. IT IS EXPECTED THAT PRODUCING WORKABILITY FOR CONCRETE MIXES WILL REQUIRE THE ADDITION OF WATER-REDUCING CHEMICAL ADMINISTRES.  CONCRETE MIX DESIGNS SHALL INCLIDE ALL APPLICABLE ADMIXTURES.  CONCRETE MIX DESIGNS SHALL INCLIDE ALL ADMIXTURES. TO ATTAIN A PARAMUM SLUMP OF 8* FOR WORKABILITY FOR CONCRETE MIXES WILL REQUIRE THE ADDITION OF WATER-REDUCING CHEMICAL ADMIXTURES.  CONCRETE MIX DESIGNS SHALL BE A MAXIMUM OF 4* 7+ 1* (ASTM C-145) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A PARAMUM SLUMP OF 8* FOR WORKABILITY FOR MIXED AND ADMIXTURES. TO ATTAIN A PARAMUM SLUMP OF 8* FOR WORKABILITY FOR CONCRETE WAS ADDED IN THE FIELD. CONTRACTOR MAY DESIGN SHALL BE ADDED THE MOORE TO A BE STRENGTH AND ADDITION OF WATER-REDUCING CHEMICAL SHALL BE CONCRETE WAS ADDED BY THE FIELD. SHALL BE ADDED THROUGH SHALL BE ADDED	\. 3.	PSF FO	R SPREAD FOOTINGS ON SOIL.	
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WARIANCE WITH THE GEOTECHNICAL REPORT OR WHEN DIFFERENT BEARING MATERIAL IS EVIDENT AND THREE IS A QUESTION OF BEARING CAPACITY.  NORCETE  CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO LATEST APPLICABLE  AMERICAN CONCRETE INSTITUTE DOCUMENTS, ACI-301, 305, 306, 315, 318, AND 347 UNLESS  NOTED OTHERWISE IN THESE CONTRACT DOCUMENTS.  ALL CONCRETE, UNLESS NOTEO OTHERWISE, SHALL DEVELOP A 28 DAY COMPRESSIVE  STRENGTH AND HAVE MANDMIN DRY SHRINKAGE PER ASTM CL57 AS FOLLOWS:  1. FOOTINGS, GRADE BEAMS, WALLS, BEAMS, COLLIMIS:  4000 PSI (DS MAX 0.05%)  3. REFER TO THE SPECIFICATION FOR AIR-ENTRAINED CONCRETE.  SLABS-ON-GRADE SHALL DEVELOP A 90 DAY COMPRESSIVE STRENGTH.  IT IS THE INTENT OF THESE CONCRETE SPECIFICATIONS THAT THE CONTRACTOR SUPPLY CONCRETE MISES WITH A MINIMUM AMOUNT OF WATER IN ORDER TO LIMIT PACSTIC  SHRINKAGE CAPACINION IN FRESHLY PACED CONCRETE. IT IS DEVELOTED THAT PRODUCING  WORD AND AND AND ASSOCIATION OF WATER IN ORDER TO LIMIT PACSTIC  SHRINKAGE CAPACINION IN FRESHLY PACED CONCRETE. IT IS DEVELOTED THAT PRODUCING  WORD AND AND AND ASSOCIATION OF WATER ADDITION OF WATER REDUCING OF MANDMINES.  CONCRETE BLUMP SHALL BE A MAXIMUM OF 4"H-1" (1"ASTM C-145) AS DELIVERED IN THE  FIELD. CONTRACTOR MAY USE CHEMICAL ADMINISTES TO ATTAIN A WAXIMUM SLUMP OF 8"  FOR WORKMALLTY IS ADMINISTED AS TO BE ADDED IN THE FIELD IS SHALL BE ADDED  THROUGH THE USE OF AN EXTERNAL MEASURING DEVICE (1.E. 5 GALLON BUCKET).  CONCRETE EXPOSED TO WASTHER, PARKED WHICLES, AND/OR DELICING CHEMICAL SHALL  CONTRAIN ON (1.4"13) ENTRAINED AIR BY VOLUME.  CHAMPER ALL EXPOSED CONRESS OF CONCRETE WALLS, 34"1 UNLESS NOTED OTHERWISE.  ALL CONTROL JOINTS IN CONCRETE SLABS-ON-GRADE SHALL BE CUT TO 1/3 OF DETTH WHEN  USING WET-CUTTING PROCESS AND 1/4 OF DEPTH WHEN USING BEARLY-ENTRY PRY-CUT  PROCESS. CUT JOINTS AS SOON AS APPLICABLE PER PROCESS USED AFTER CONCRETE HAS  BEEN PLACED WITHOUT DISCOGING AGGREGATE, ON USE A KEYEP COLD JOINT.  CUT SLABS-ON-GRADE INTO AREAS OF APPROXIMATELY 225 SQUARE FEET MAINTAINING AS  CLOSE TO SQUARE AREA	Э. Э.	WITHIN CONTR	N THE FOOTPRINT OF THE NEW BUILDING. ACTOR SHALL NOTIFY ENGINEER OF ANY UNUSUAL :	SOIL CONDITIONS THAT ARE IN
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1. FOOTINGS, GRADE BEAMS, WALLS, BEAMS, COLUMNS: 4000 PSI (DS MAX 0.05%)  2. SLAB ON GRADE SHALL DEVELOP A 90 DAY COMPRESIVES STRENGTH. IT IS THE INTENT OF THESE CONCRETE SPECIFICATIONS THAT THE CONTRACTOR SUPPLY CONCRETE INTESS WITH A MINIMUM AMOUNT OF WATER IN GORDE TO LITHIT PLASTIC SHRINKAGE CRACKING IN PRESHLY PLACED CONCRETE. IT IS EXPECTED THAT PRODUCING WORKABLITY FOR CONCRETE MIXES WILL REQUIRE THE ADDITION OF WATER-REDUCING CHEMICAL ADMIXTURES. CONCRETE MIX DESIGNS SHALL INCLUDE ALL APPLICABLE ADMIXTURES DESIGNS OF CONCRETE MIX DESIGNS SHALL INCLUDE ALL APPLICABLE ADMIXTURES DESIGNS OF CONCRETE MIX DESIGNS SHALL INCLUDE ALL APPLICABLE ADMIXTURES DESIGNS OF CONCRETE SLUMP SHALL BE A PAXIMUM OF 4" ++ 1" (ASTM C-145) AS DELIVERED IN THE FIELD CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO THE ADDITION OF WATER-REDUCING CHEMICAL SHALL CONTAIN 6% (-+1-4)9 FORTAL ADMIXTURE IS TO BE ADDED IN THE FIELD IS SHALL BE ADDED THROUGH THE USE OF AN EXTERNAL MEASURING DEVICE (I.E. S CALLON BUCKET). CONCRETE EXPOSED TO WEATHER, PARKED VEHICLES, AND/OR DEICING CHEMICAL SHALL CONTAIN 6% (-+1-4)9 FORTAL MIXED AND MIXED ADMIXTURE SHALL PROPERS OF CONCRETE WHICH USING EARLY-ENTRY DRY-CUT PROCESS. CLIT JOINTS AS SOON AS APPLICABLE PROPROCESS USED AFTER CONCRETE HAS BEEN PLACED WITHOUT DISLOGRING AGGREGATE, OR USE A KEYED COLD JOINT CLIT SLABS-ON-GRADE SHALL BE CUTT O'LLY ON THE WITHOUT DISLOGRING AGGREGATE, OR USE A KEYED COLD JOINT CLIT SLABS-ON-GRADE SHOW AND ADDITION OF CONTROL JOINTS WITHOUT AREAS OF APPROXIMATE IVE 225 SQUARE FEET CONCRETE HAS BEEN PLACED WITHOUT TO AREAS OF APPROXIMATE IVE ADDITIONS OF CONTROL JOINTS MY DEPLACED OF ADDITION OF CONTROL JOINTS MY DEPLACED OF AD	В.	NOTED ALL CO	OTHERWISE IN THESE CONTRACT DOCUMENTS. NCRETE, UNLESS NOTED OTHERWISE, SHALL DEVEL	OP A 28 DAY COMPRESSIVE
SLABS-ON-GRADE SHALL DEVELOP A 90 DAY COMPRESSIVE STRENGTH.  IT IS THE INTERNI OF THESE CONCRETE SPECIFICATIONS THAT THE CONTRACTOR SUPPLY CONCRETE MIXES WITH A MINIMUM AMOUNT OF WATER IN ORDER TO LIMIT PLASTIC SHRINKAGE CRACKING IN RESELIV PLACED CONCRETE. IT IS EXPECTED THAT PRODUCING WORKABILLTY FOR CONCRETE MIXES WILL REQUIRE THE ADDITION OF WATER-REDUCING CHEMICAL ADMIXTURES.  CONCRETE MIX DESIGNS SHALL INCLUDE ALL APPLICABLE ADMIXTURES.  CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +- 1" (ASTM C-149.) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILLTY IF ADMIXTURE IS TO BE ADDED IN THE FIELD SHALL BE ADDED THROUGH THE USE OF AN EXTERNAL. MEASURING DEVICE (I.E. 5 GALLON BUCKET).  CONCRETE EXPOSED TO WEATHER, PARKED VEHICLES, AND/OR DEICING CHEMICAL SHALL CONTAIN 6% (+- 1-%) ENTRAINED AIR BY WOLLDE.  CHAMPER ALL EXPOSED CORNERS OF CONCRETE WALLS, 3/4" UNLESS NOTED OTHERWISE. ALL EXPOSED CORNERS OF CONCRETE WALLS, 3/4" UNLESS NOTED OTHERWISE. ALL CONTROL JOINTS IN CONCRETE SABS-ON-GRADE SHALL BE CUT TO 1/3 OF DEPTH WHEN USING WET-CUTTING PROCESS AND 1/4 OF DEPTH WHEN USING EARL/FENTRY DRY-CUT PROCESS. CUT JOINTS AS SOON AS APPROXIMATELY 22'S SQUARE FEET MAINTAINING AS CLOSE TO SQUARE AREAS AS SOON AS APPROXIMATELY 22'S SQUARE FEET MAINTAINING AS CLOSE TO SQUARE AREAS AS SOON AS APPROXIMATELY 22'S SQUARE FEET MAINTAINING AS CLOSE TO SQUARE AREAS AS PORDIXING SUCRESS WILL BE CONTROL JOINTS. IN WALLS SHALL BE PLACED AT 20'-0" O.C. MAXIMUM UNLESS NOTED OTHERWISE. LOCATE JOINTS BESIDE PERSONSTITUTION SO FOOTROL JOINTS THE ARCHITECT. CONTROL JOINTS BETTO PERSONS WE ARE AREAS AS SOON AS APPROXIMATELY 22'S SQUARE FEET MAINTAINING AS CLOSE TO SQUARE AREAS AS REPOSSIBLE. CONSTRUCTIONS OF CONTROL JOINTS AND THE ARCHITECT.  CONTROL JOINTS BY WALLS SHALL BE PLACED AT 20'-0" O.C. MAXIMUM UNLESS NOTED OTHERWISE. LOCATE JOINTS BESIDE PERSONSTRUCTIONS OF CONTROL JOINTS AND THE ARCHITECT. AS AND THE CONTRACTOR SOON THE ARCHITECT. AS AND THE CONTRACTOR SOON THE ARCHITEC		1. 2.	FOOTINGS, GRADE BEAMS, WALLS, BEAMS, COLUM SLAB ON GRADE:	NS: 4000 PSI (DS MAX 0.05%) 4000 PSI (DS MAX 0.05%)
CONCRETE MIXES WITH A MINIMUM AMOUNT OF WATER IN ORDER TO LIMIT PLASTIC SHRINKAGE CRACKING IN FRESHLY PLACED CONCRETE. IT IS EXPECTED THAT PRODUCING WORKABILITY FOR CONCRETE MIXES WILL REQUIRE THE ADDITION OF WATER-REDUCING CHEMICAL APPINITURES. CONCRETE MIX DESIGNS SHALL INCLUDE ALL APPLICABLE ADMIXTURES. CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +- 1" (ASTM C-143) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY IF ADMIXTURE IS TO BE ADDED IN THE FIELD IS SHALL BE ADDED THROUGH THE USE OF AN EXTERNAL MEASURING DEVICE (I.E. 5 GALLON BUCKET). CONCRETE EXPOSED TO WEATHER, PARKED VEHICLES, AND/OR DELIVING CHEMICAL SHALL CONTAIN 6% (+-) 1%) ENTRAINED AIR BY VOLUME. CHAMPER ALL EXPOSED CORNERS OR CONCRETE WALLS, 3/4" UNLESS NOTED OTHERWISE. ALL CONTROL JOINTS IN CONCRETE SLABS-ON-GRADE INTO CONCRETE MIXES AND/OR DELIVER TO 1/3 OF DEPTH WHEN USING WET-CUTTING PROCESS AND 1/4 OF DEPTH WHEN USING EARLY-ENTRY DRY-CUT PROCESS. CUT JOINTS AS SOON AS APPLICABLE PER PROCESS USED AFTER CONCRETE MAS BEEN PLACED WITHOUT DISLODGING AGGREGATE, OR USE A KEYED COLD JOINT. CUT SLABS-ON-GRADE INTO ARRAS OF APPROXIMATELY 2ZS SQUARE PEET MAINTAINING AS CLOSE TO SQUARE ARBAS AS POSSIBLE. LENGTH TO WIDTH RATIOS OF JOINTED PANELS SHALL NOT EXCRED 1.5:1. COORDINATE LOCATIONS OF CONTROL JOINTS IN WALLS SHALL BE PLACED AT 20"-0" O.C. MAXIMUM UNLESS NOTED OTHERWISE. LOCATE JOINTS BESIDED FIERS INTEGRAL WITH WALLS, NARA CONTROL JOINTS WITH ARCHITECT. CONTROL JOINTS IN WALLS SHALL BE PLACED AT 20"-0" O.C. MAXIMUM UNLESS NOTED OTHERWISE. LOCATE JOINTS BESIDED FIERS INTEGRAL WITH WALLS, NARA CONTROL JOINTS WITH ARCHITECT. CONTROL JOINTS WHERE POSSIBLE. CONSTRUCTION JOINTS MAY BE PLACED IN LIEU OF OTHERWISE. LOCATE JOINTS BESIDED FIERS INTEGRAL WITH WALLS, NARA CONTROL JOINTS WITH ARCHITECT. PRIOR TO PLACING CONCRETE IN ANY LOCATION, IT IS THE RESPONSIBILITY OF THE GENERAL CONTROL JOINTS BY A PROVING SECOND WITH A RESPONSIBILITY OF OTHERWISE.  LEVATIONS, OPENINGS, RECESS, AND BLOCKOU	C. D.	SLABS-	ON-GRADE SHALL DEVELOP A 90 DAY COMPRESSIVE	STRENGTH.
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CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C-145) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY IF ADMIXTURE IS TO BE ADDED IN THE FIELD IS SHALL BE ADDED THROUGH THE USE OF AN EXTERNAL MEASURING DEVICE (I.E. 5 GALLON BUCKET).  CONCRETE EXPOSED TO WEATHER, PARKED VEHICLES, AND/OR DEICING CHEMICAL SHALL CONTAIN 6% (1/- 1%) ENTRAINED AIR BY VOLUME.  CHAMER ALL EXPOSED CORNERS OF CONCRETE WALLS, 3/4" UNLESS NOTED OTHERWISE. ALL CONTROL JOINTS IN CONCRETE SLABS-ON-GRADE SHALL BE CUT TO 13 OF DEPTH WHEN USING WET-CUTTING PROCESS AND 14 OF DEPTH WHEN USING SHAP YE-CUT PROCESS. AND 14 OF DEPTH WHEN USING WET-CUTTING PROCESS AND AS APPLICABLE PER PROCESS USED AFTER CONCRETE HAS BEEN PLACED WITHOUT DISLODGING AGGREGATE, OR USE A KEYED COLD JOINT.  CUT SLABS-ON-GRADE INTO AREAS OF APPROXIMATELY 225 SQUARE FEET MAINTAINING AS CLOSE TO SQUARE AREAS AS POSSIBLE. LENGTH TO WIDTH RATIOS OF JOINTS ED PANELS SHALL NOT EXCLED 1.51. COORDINATE LOCATIONS OF CONTROL JOINTS WITH ARCHITECT.  CONTROL JOINTS IN WALLS SHALL BE PLACED AT 20"0"O. C.M AXIMIMU NULESS NOTED OTHERWISE. LOCATE JOINTS BESIDE PLEAS INTEGRAL WITH WALLS, NEAR CORRERS, AND IN CONCEALED LOCATIONS WHERE POSSIBLE. CONSTRUCTION JOINTS MY BAP BE PLACED IN LIEU OF CONTROL JOINTS AT CONTRACTOR'S DISCRETION. COORDINATE LOCATION OF CONTROL JOINTS WITH ARCHITECT.  PRIOR TO PLACING CONCRETE IN ANY LOCATION, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR'S DISCRETION. COORDINATE DAIL JOINTED WITH ARCHITECT.  PRIOR TO PLACING CONCRETE IN ANY LOCATION, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR'S DISCRETION. COORDINATE DAIL DIMENSIONS, IN THE EVENT ERRORS, CONFLICTS, OR OMISSIONS EXIST, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY OF THAT GRADE AND	_	CHEMIC	CAL ADMIXTURES.	
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NOT EXCEED 1.5:1. COORDINATE LOCATIONS OF CONTROL JOINTS WITH ARCHITECT. CONTROL JOINTS IN WALLS SHALL BE PLACED AT 20'-0" O.C. MAXIMUM UNLESS NOTED OTHERWISE. LOCATE JOINTS BESIDE PIERS INTEGRAL WITH WALLS, NEAR CORNERS, AND IN CONCEALED LOCATIONS WHERE POSSIBLE. CONSTRUCTION JOINTS MAY BE PLACED IN LIEU OF CONTROL JOINTS AT CONTRACTOR'S DISCRETION. COORDINATE LOCATION OF CONTROL JOINTS WITH ARCHITECT. PRIOR TO PLACING CONCRETE IN ANY LOCATION, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THOROUGHLY CHECKED AND COORDINATED ALL DIMENSIONS, ELEVATIONS, OPENINGS, RECESS, AND BLOCKOUTS AS SHOWN ON ANY CONTRACT DRAWNINGS. IN THE EVENT ERRORS, CONFLICTS, OR OMISSIONS EXIST, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE ARCHITECT OR ENGINEER FOR NECESSARY CORRECTIVE ACTION. EMBEDDED ITEMS ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR PRIOR TO PLACING CONCRETE. ANCHOR RODS AND ANCHOR BOLTS SHALL BE HELD IN PLACE WITH A RIGID TEMPLATE HORIZONTAL JOINTS BEYOND THOSE SHOWN IN THE CONTRACT DOCUMENTS SHALL NOT BE CONSTRUCTED WITHOUT THE APPROVAL OF THE ARCHITECT AND ENGINEER.  SINFORCING STEEL  ALL REINFORCING SHALL BE ASTM A615 GRADE 60, EXCEPT WELDED REINFORCING WHICH SHALL BE ASTM A706 GRADE 60.  ALL WELDED WITE FABRIC SHALL BE ASTM A82 COLD DRAWN WIRE.  ALL ACCESSORIES FOR SUPPORTING REINFORCING SHALL BE GALVANIZED OR HAVE PLASTIC- COATED FEET.  PROVIDE CORNER BARS AT THE EXTERIOR FACE OF ALL WALL AND FOOTING CORNERS EQUAL TO HORIZONTAL BARS.  REINFORCING SHALL BE DETAILED, FABRICATED, PLACE, AND SUPPORTED IN ACCORDANCE WITH ACI 315, LATEST APPLICABLE EDITION.  STANDARD COVERAGE OF REINFORCING SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE.  1. PERMANENTIY EXPOSED TO TO WEATHER  A. CAST AGAINST EARTH  B. IN CONTACT WITH WATER  A. CAST AGAINST EARTH  B. IN CONTACT WITH WATER  A. SLABS AND WALLS  B. EPOXY COATED  55 db (BAR DIAMETER)  B. EPOXY COATED  48 db  B. EPOXY COATED  49 db  B. EPOXY COATED  50 ON THE CONTRACT DRAWINGS OR PERMITTED BY THE ENGINEER OF  RECORD.	J.	CUT SL CLOSE	ABS-ON-GRADE INTO AREAS OF APPROXIMATELY 22 TO SQUARE AREAS AS POSSIBLE. LENGTH TO WIDTH	25 SQUARE FEET MAINTAINING AS H RATIOS OF JOINTED PANELS SHALI
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B. IN CONTACT WITH WATER 2"  C. FORMED 2"  2. NOT EXPOSED TO EARTH OR WEATHER  A. SLABS AND WALLS 3/4"  B. BEAMS AND COLUMNS 1 1/2"  SPLICE LENGTH  1. 3000 PSI CONCRETE  A. NON-COATED 55 db (BAR DIAMETER)  B. EPOXY COATED 83 db  2. 4000 PSI CONCRETE  A. NON-COATED 48 db  B. EPOXY COATED 72 db  3. 5000 PSI CONCRETE  A. NON-COATED 43 db  B. EPOXY COATED 43 db  REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT AS SHOWN AND NOTED ON THE CONTRACT DRAWINGS OR PERMITTED BY THE ENGINEER OF RECORD.	B. C. D.	COATEI PROVIE TO HOR REINFO	DE CORNER BARS AT THE EXTERIOR FACE OF ALL WARIZONTAL BARS. DRCING SHALL BE DETAILED, FABRICATED, PLACE, A	-
2. NOT EXPOSED TO EARTH OR WEATHER  A. SLABS AND WALLS  B. BEAMS AND COLUMNS  1 1/2"  SPLICE LENGTH  1. 3000 PSI CONCRETE  A. NON-COATED  B. EPOXY COATED  C. 4000 PSI CONCRETE  A. NON-COATED  B. EPOXY COATED  COMMENT  A. NON-COATED  A. NON-COATED  B. EPOXY COATED  COMMENT  A. NON-COATED  COMMENT  A. NON-COATED  COMMENT  A. NON-COATED  COMMENT  COMMEN	B. C. D. E.	COATEI PROVIE TO HOR REINFO WITH A STANDA	DE CORNER BARS AT THE EXTERIOR FACE OF ALL WARIZONTAL BARS.  DRCING SHALL BE DETAILED, FABRICATED, PLACE, A ACI 315, LATEST APPLICABLE EDITION.  ARD COVERAGE OF REINFORCING SHALL BE AS FOLI  PERMANENTLY EXPOSED TO WEATHER	ND SUPPORTED IN ACCORDANCE LOWS UNLESS NOTED OTHERWISE.
B. BEAMS AND COLUMNS 1 1/2"  SPLICE LENGTH  1. 3000 PSI CONCRETE  A. NON-COATED 55 db (BAR DIAMETER)  B. EPOXY COATED 83 db  2. 4000 PSI CONCRETE  A. NON-COATED 48 db  B. EPOXY COATED 72 db  3. 5000 PSI CONCRETE  A. NON-COATED 43 db  B. EPOXY COATED 43 db  REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT AS SHOWN AND NOTED ON THE CONTRACT DRAWINGS OR PERMITTED BY THE ENGINEER OF RECORD.	A. B. C. D. E.	COATEI PROVIE TO HOR REINFO WITH A STANDA	DE CORNER BARS AT THE EXTERIOR FACE OF ALL WARIZONTAL BARS.  PRIZONTAL BARS.  PRIZONTAL BE DETAILED, FABRICATED, PLACE, A  ACI 315, LATEST APPLICABLE EDITION.  ARD COVERAGE OF REINFORCING SHALL BE AS FOLI  PERMANENTLY EXPOSED TO WEATHER  A. CAST AGAINST EARTH  B. IN CONTACT WITH WATER	AND SUPPORTED IN ACCORDANCE LOWS UNLESS NOTED OTHERWISE.  3" 3"
1. 3000 PSI CONCRETE A. NON-COATED 55 db (BAR DIAMETER) B. EPOXY COATED 83 db  2. 4000 PSI CONCRETE A. NON-COATED 48 db B. EPOXY COATED 72 db  3. 5000 PSI CONCRETE A. NON-COATED 43 db B. EPOXY COATED 64 db  REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT AS SHOWN AND NOTED ON THE CONTRACT DRAWINGS OR PERMITTED BY THE ENGINEER OF RECORD.	B. C. D. E.	COATEI PROVID TO HOR REINFO WITH A STANDA 1.	DE CORNER BARS AT THE EXTERIOR FACE OF ALL WARIZONTAL BARS.  DRCING SHALL BE DETAILED, FABRICATED, PLACE, A ACI 315, LATEST APPLICABLE EDITION.  ARD COVERAGE OF REINFORCING SHALL BE AS FOLIT PERMANENTLY EXPOSED TO WEATHER  A. CAST AGAINST EARTH  B. IN CONTACT WITH WATER  C. FORMED  NOT EXPOSED TO EARTH OR WEATHER	AND SUPPORTED IN ACCORDANCE LOWS UNLESS NOTED OTHERWISE.  3" 3" 2"
B. EPOXY COATED 83 db  2. 4000 PSI CONCRETE  A. NON-COATED 48 db  B. EPOXY COATED 72 db  3. 5000 PSI CONCRETE  A. NON-COATED 43 db  B. EPOXY COATED 64 db  REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT AS SHOWN AND NOTED ON THE CONTRACT DRAWINGS OR PERMITTED BY THE ENGINEER OF RECORD.	B. C. D. E.	COATEI PROVIE TO HOR REINFO WITH A STANDA 1.	DE CORNER BARS AT THE EXTERIOR FACE OF ALL WARIZONTAL BARS.  DRCING SHALL BE DETAILED, FABRICATED, PLACE, AND ACI 315, LATEST APPLICABLE EDITION.  ARD COVERAGE OF REINFORCING SHALL BE AS FOLIT PERMANENTLY EXPOSED TO WEATHER  A. CAST AGAINST EARTH  B. IN CONTACT WITH WATER  C. FORMED  NOT EXPOSED TO EARTH OR WEATHER  A. SLABS AND WALLS  B. BEAMS AND COLUMNS	AND SUPPORTED IN ACCORDANCE LOWS UNLESS NOTED OTHERWISE.  3" 3" 2"  3/4"
B. EPOXY COATED 72 db 3. 5000 PSI CONCRETE A. NON-COATED 43 db B. EPOXY COATED 64 db REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT AS SHOWN AND NOTED ON THE CONTRACT DRAWINGS OR PERMITTED BY THE ENGINEER OF RECORD.	B. C. D. E.	COATEI PROVIE TO HOR REINFO WITH A STANDA 1.	DE CORNER BARS AT THE EXTERIOR FACE OF ALL WARIZONTAL BARS.  PRIZONTAL BARS.  PRIZONG SHALL BE DETAILED, FABRICATED, PLACE, A ACI 315, LATEST APPLICABLE EDITION.  ARD COVERAGE OF REINFORCING SHALL BE AS FOLIT PERMANENTLY EXPOSED TO WEATHER  A. CAST AGAINST EARTH  B. IN CONTACT WITH WATER  C. FORMED  NOT EXPOSED TO EARTH OR WEATHER  A. SLABS AND WALLS  B. BEAMS AND COLUMNS  LENGTH  3000 PSI CONCRETE	AND SUPPORTED IN ACCORDANCE LOWS UNLESS NOTED OTHERWISE.  3" 3" 2"  3/4" 1 1/2"
A. NON-COATED 43 db B. EPOXY COATED 64 db REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT AS SHOWN AND NOTED ON THE CONTRACT DRAWINGS OR PERMITTED BY THE ENGINEER OF RECORD.	B. C. D. E.	COATEI PROVID TO HOR REINFO WITH A STANDA 1.	DE CORNER BARS AT THE EXTERIOR FACE OF ALL WARIZONTAL BARS.  DRCING SHALL BE DETAILED, FABRICATED, PLACE, A ACI 315, LATEST APPLICABLE EDITION.  ARD COVERAGE OF REINFORCING SHALL BE AS FOLL PERMANENTLY EXPOSED TO WEATHER  A. CAST AGAINST EARTH  B. IN CONTACT WITH WATER  C. FORMED  NOT EXPOSED TO EARTH OR WEATHER  A. SLABS AND WALLS  B. BEAMS AND COLUMNS  LENGTH  3000 PSI CONCRETE  A. NON-COATED  B. EPOXY COATED  4000 PSI CONCRETE	IND SUPPORTED IN ACCORDANCE LOWS UNLESS NOTED OTHERWISE.  3" 3" 2"  3/4" 1 1/2"  55 db (BAR DIAMETER) 83 db
REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT AS SHOWN AND NOTED ON THE CONTRACT DRAWINGS OR PERMITTED BY THE ENGINEER OF RECORD.	B. C. D. E.	COATEI PROVIE TO HOR REINFO WITH A STANDA 1.	DE CORNER BARS AT THE EXTERIOR FACE OF ALL WARIZONTAL BARS.  DRCING SHALL BE DETAILED, FABRICATED, PLACE, AND ACI 315, LATEST APPLICABLE EDITION.  ARD COVERAGE OF REINFORCING SHALL BE AS FOLL PERMANENTLY EXPOSED TO WEATHER  A. CAST AGAINST EARTH  B. IN CONTACT WITH WATER  C. FORMED  NOT EXPOSED TO EARTH OR WEATHER  A. SLABS AND WALLS  B. BEAMS AND COLUMNS  LENGTH  3000 PSI CONCRETE  A. NON-COATED  B. EPOXY COATED  4000 PSI CONCRETE  A. NON-COATED  B. EPOXY COATED  B. EPOXY COATED	IND SUPPORTED IN ACCORDANCE LOWS UNLESS NOTED OTHERWISE.  3" 3" 2"  3/4" 1 1/2"  55 db (BAR DIAMETER) 83 db 48 db
RECORD.	B. C. D. E.	COATEI PROVIE TO HOR REINFO WITH A STANDA 1.	DE CORNER BARS AT THE EXTERIOR FACE OF ALL WARIZONTAL BARS.  PRIZONTAL BARS.  PRIZONTAL BE DETAILED, FABRICATED, PLACE, A ACI 315, LATEST APPLICABLE EDITION.  ARD COVERAGE OF REINFORCING SHALL BE AS FOLIONERMANENTLY EXPOSED TO WEATHER  A. CAST AGAINST EARTH  B. IN CONTACT WITH WATER  C. FORMED  NOT EXPOSED TO EARTH OR WEATHER  A. SLABS AND WALLS  B. BEAMS AND COLUMNS  LENGTH  3000 PSI CONCRETE  A. NON-COATED  B. EPOXY COATED  4000 PSI CONCRETE  A. NON-COATED  B. EPOXY COATED  B. EPOXY COATED  5000 PSI CONCRETE  A. NON-COATED	AND SUPPORTED IN ACCORDANCE LOWS UNLESS NOTED OTHERWISE.  3" 3" 2"  3/4" 1 1/2"  55 db (BAR DIAMETER) 83 db 48 db 72 db 43 db
		COATEI PROVIE TO HOP REINFO WITH A STAND 1.  2.  SPLICE 1.  2.  REINFO	DE CORNER BARS AT THE EXTERIOR FACE OF ALL WARIZONTAL BARS.  PRIZONTAL BARS.  PRIZONTAL BE DETAILED, FABRICATED, PLACE, A ACI 315, LATEST APPLICABLE EDITION.  ARD COVERAGE OF REINFORCING SHALL BE AS FOLIONE PERMANENTLY EXPOSED TO WEATHER  A. CAST AGAINST EARTH  B. IN CONTACT WITH WATER  C. FORMED  NOT EXPOSED TO EARTH OR WEATHER  A. SLABS AND WALLS  B. BEAMS AND COLUMNS  LENGTH  3000 PSI CONCRETE  A. NON-COATED  B. EPOXY COATED  4000 PSI CONCRETE  A. NON-COATED  B. EPOXY COATED  5000 PSI CONCRETE  A. NON-COATED  B. EPOXY COATED  5000 PSI CONCRETE  A. NON-COATED  B. EPOXY COATED  5000 PSI CONCRETE  A. NON-COATED  B. EPOXY COATED  CONCRETE  A. NON-COATED  B. EPOXY COATED  CONCRETE  A. NON-COATED  B. EPOXY COATED  CONCRETE  A. NON-COATED  CONCRETE SHAPPING THE	AND SUPPORTED IN ACCORDANCE LOWS UNLESS NOTED OTHERWISE.  3" 3" 2"  3/4" 1 1/2"  55 db (BAR DIAMETER) 83 db 48 db 72 db 43 db 64 db ALL NOT BE FIELD BENT, EXCEPT AS

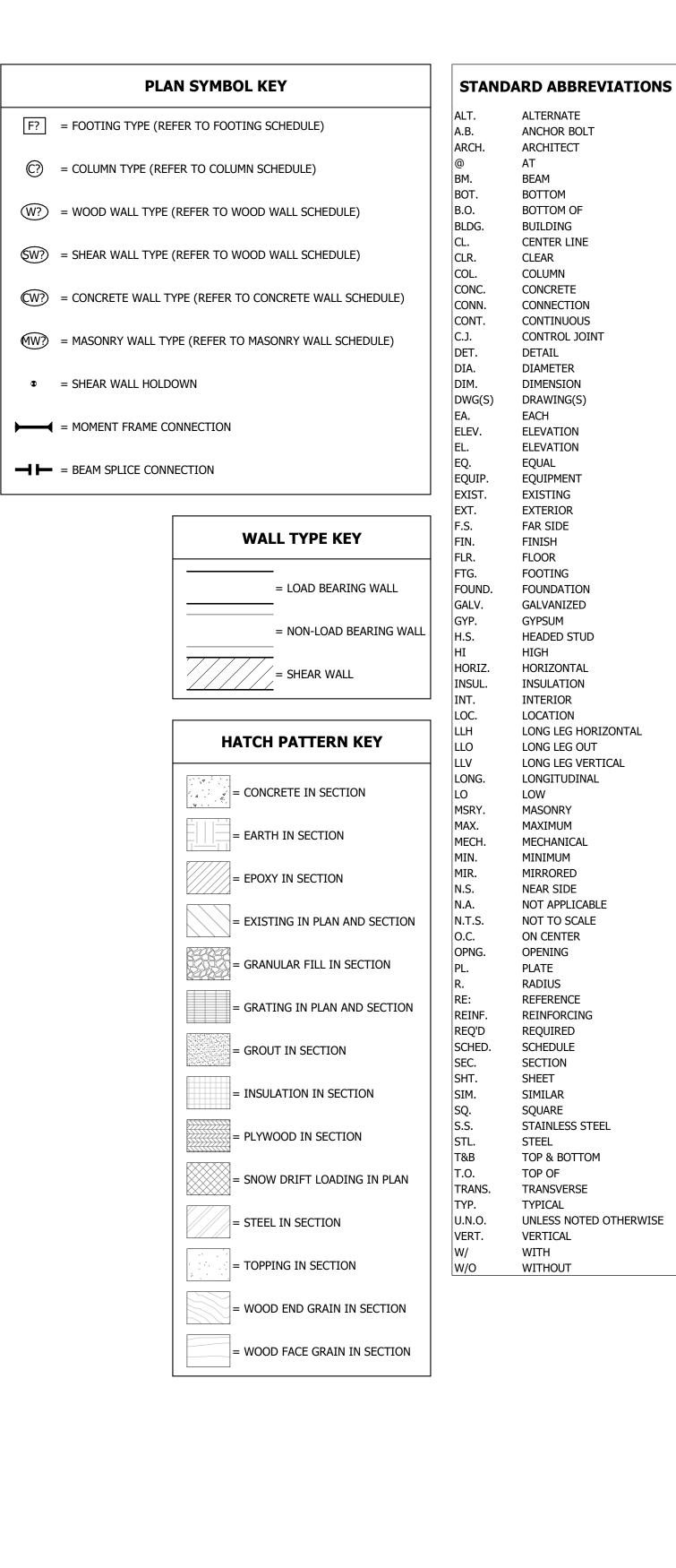
PLACED INTO FRESHLY PLACED CONCRETE UNLESS APPROVED BY THE ENGINEER OF RECORD.

A. B.	MASONRY UNIT COMPRESSIVE STRENGTH $(f'_m) = 1500 \text{ PSI. MORTAR} - \text{TYPE S.}$
D.	LINTELS SHALL BE STEEL BEAMS OR MASONRY BOND BEAMS AS SHOWN ON THE PLANS.  OPENINGS LESS THAN 4'-0" WIDE SHALL BE A BOND BEAM WITH (2) #5 CONTINUOUS
C.	EXTENDING PAST OPENINGS A MIN. OF 2'-0".  GROUT ALL REINFORCED CELLS AND CELLS BELOW GRADE SOLID.
D.	PLACE A BOND BEAM WITH/ (2) #5 CONTINUOUS AT THE TOP OF WALLS & 8'-0" O.C. VERTICALLY.
E.	REINFORCE 8" CMU WALLS WITH #5 @ 32" O.C. VERT. AND 12" CMU WALLS WITH #5 @ 24" O.C. VERT. UNLESS NOTED OTHERWISE. IN ADDITION, REINFORCE WALL CORNERS AND JAMBS
F.	OF WINDOWS AND DOORS WITH (2) #5 EXTENDING PAST OPENINGS A MIN. OF 2'-0". BRACE THE TOPS OF PARTITION WALLS TO THE UNDERSIDE OF DECK.
COL A.	D-FORMED STEEL ALL LIGHT GAGE METAL FRAMING AND CONNECTIONS SHALL BE DESIGNED, FABRICATED, AND
	ERECTED IN ACCORDANCE WITH AISI (SPECIFICATION FOR THE SIGN OF COLD FORMED STEE STRUCTURAL MEMBERS) (AND NAAMM ML/SFA540 LIGHTWEIGHT STEEL FRAMING SYSTEMS
	MANUAL). DESIGN TO BE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF KANSAS.
B.	ALL LIGHT GAGE METAL FRAMING SHOWN IN THESE DOCUMENTS SHALL BE IN ACCORDANCE
C.	WITH THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA). ALL STRUCTURAL MEMBERS SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING
	MEETING THE REQUIREMENTS OF ASTM A-655 STEEL MATERIAL AND SHALL HAVE A MINIMUM YIELD STRESS OF 33 KSI UNLESS NOTED OTHERWISE.
D.	WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.3 - LATEST EDITION, STRUCTURAL WELDING CODE, SHEET STEEL.
E.	SUGGESTED WELD METAL AND PROCESS FOR SHOP WELDING ARE, 70 KSI WELD METAL STRENGTH. SUGGESTED METHODS FOR FIELD WELDING, 1/8" E70XX ELECTRODE-SMAW OR
F.	GASLESS M16. MINIMUM WELD THROAT THICKNESS (t) MUST MATCH OR EXCEED THE BASE STEEL THICKNES
G.	OF THE THINNEST CONNECTED PART UNLESS NOTED OTHERWISE WEB STIFFENERS FOR STUD JOISTS SHALL BE PROVIDED AT ALL REACTION POINTS,
Н.	INTERMEDIATE CONCENTRATED LOADS, AND WHERE INDICATED ON THE DRAWINGS. SEQUENCING OF WELDS SHALL BE SO AS TO AVOID DISTORTION OF MEMBERS. REPLACE ALL
	MEMBER WHEN BURN THROUGH DURING WELDING.
I.	ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED ON ANGULAR FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL
J.	BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTENED.  NO SPLICES IN STUDS, JOISTS, OR OTHER LOAD CARRYING MEMBERS MAY BE MADE WITHOUT
K.	PRIOR ENGINEERING REVIEW AND SPECIFIC DETAILS FOR ANY SUCH SPLICE. TOP AND BOTTOM TRACKS TO MATCH GAGE OF STUD UNLESS NOTED OTHERWISE.
L.	INSTALL CONTINUOUS HORIZONTAL BRIDGING IN STUD SYSTEM, SPACED (VERTICAL DISTANCE) NOT TO EXCEED 4'-0" O.C. WELD OR FASTEN TO EACH STUD.
STR A.	JCTURAL STEEL  ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE
, ti	WITH AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST APPLICABLE EDITION AND AISC CODE OF STANDARD PRACTICE.
В.	AND AISC CODE OF STANDARD FRACTICE.  ALL STRUCTURAL STEEL FOR WIDE FLANGE SHALL BE A992 GRADE 50 UNLESS NOTED  OTHERWISE. ALL ANGLES, PLATES AND CHANNELS SHALL BE ASTM A36 UNLESS NOTED
_	OTHERWISE. ALL RECTANGULAR AND ROUND HSS SHAPES SHALL BE ASTM A500, GRADE B.
C.	ALL BOLTS SHALL BE 3/4" Ø A-325 BOLTS WITH HEAVY HEX HEADS UNLESS NOTED OTHERWIS ALL CONNECTIONS SHALL HAVE A MINIMUM OF (2) 3/4" Ø BOLTS, BEARING TYPE CONNECTION
D.	ONLY. ALL STRUCTURAL STEEL WELDS IN THE SHOP OR IN THE FIELD SHALL BE PERFORMED BY A
E.	QUALIFIED WELDER AND SHALL CONFORM TO THE CURRENT REQUIREMENTS OF A.W.S. SHOP WELDED AND FIELD BOLTED CONNECTIONS ARE PREFERRED UNLESS NOTED
F.	OTHERWISE. ALL STEEL EXPOSED TO THE EXTERIOR, EXHIBITS, POOLS, AND LSS AREAS SHALL BE HOT-DIP
G.	GALVANIZED AND PAINTED PER ARCHITECT UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL PROVIDE SHELF ANGLES, GLASS SUPPORTS, LINTELS, AND OTHER
G.	MISC. STEEL AS SHOWN ON THESE DRAWINGS AS REQUIRED TO PROVIDE SUPPORT (STABILIZATION) AROUND AND THROUGHOUT THE BUILDING. SEE ARCHITECTURAL DRAWING
CTE	FOR ADDITIONAL MISC. STEEL DETAILS.
A.	EL BAR JOISTS AND JOIST GIRDERS END SUPPORT AND END ANCHORAGE
	<ol> <li>PROVIDE STANDARD DEPTH OF BEARING FOR ALL JOISTS AND JOIST GIRDERS AS SHOWN BELOW UNLESS NOTED OTHERWISE ON THESE DRAWINGS</li> </ol>
	a. K SERIES -2 1/2" b. LH SERIES -5"
	<ol> <li>PROVIDE FLAT BEARING FOR ALL JOISTS AND JOIST GIRDERS, UNLESS NOTED         OTHERWISE ON THESE DRAWINGS. INCREASE THE DEPTH OF THE SEAT ON THE HIGH</li> </ol>
В.	END OF SLOPED JOISTS AS REQUIRED TO PROVIDE CLEARANCE FOR THE CONNECTIO DESIGN
υ.	ALL JOISTS AND JOIST GIRDERS SHALL CARRY THE DESIGN LOADS AS SPECIFIED IN THE SJI TABLES AS THE MINIMUM REQUIREMENT. ADDITIONALLY, THE JOISTS AND
	JOIST GIRDERS SHALL BE DESIGNED TO CARRY ANY OTHER LOAD TYPES AND
	PATTERNS AS INDICATED ON THESE DRAWINGS. 2. STEEL JOISTS, JOIST GIRDERS, BRIDGING, AND THEIR CONNECTIONS SHALL BE
	DESIGNED BY THE MANUFACTURER FOR A NET UPLIFT AS INDICATED ON THESE DRAWINGS.
	<ol> <li>JOIST GIRDERS SHALL BE DESIGNED BY THE MANUFACTURER FOR THE CONCENTRATE LOADS SHOWN ON THESE DRAWINGS.</li> </ol>
POS A.	T CONSTRUCTION ANCHORS  POST INSTALLED ANCHORS ARE NOT TO BE SUBSTITUTED FOR ANCHORS SHOWN ON THE
	DRAWINGS. IF CAST IN PLACE ANCHOR IS DETERMINED TO BE OUT OF TOLERANCE OR OMITTED, CONTRACTOR MUST GENERATE A REQUEST FOR INFORMATION IN REGARDS TO TH
В.	SOLUTION.  EMBEDMENT DEPTH SHALL BE DEFINED AS THE DISTANCE FROM THE SURFACE OF THE LOAD-
D.	BEARING BASE MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS
C.	BEEN DRIVEN INTO THE HOLE. OBSERVATION AND VERIFICATION OF EMBEDMENT HOLE CLEANING, DEPTH, AND ANCHOR
D.	INSTALLATION IS REQUIRED FOR ALL EPOXY ANCHORS. EQUIVALENT ANCHORS MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL. SUBMITTALS AR
	THE CONTRACTOR'S RESPONSIBILITY AND MUST INCLUDE EVALUATION REPORTS FROM THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS, CURRENT WITH THE REQUIREMENTS
STR	OF THE PROJECT.  JCTURAL ENGINEER SITE OBSERVATIONS
A.	THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF
	CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL
_	BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCES.
В.	THE ENGINEER SHALL NOT HAVE CONTROL NOR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, OR
	SEQUENCES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR, OR AN
	OTHER PERSONS PERFORMING ANY OF THE WORK, OR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
C.	PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF LEIGH & O'KANE L.L.C. IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS
	PROCEEDING IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS
	LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF WORK, BUT RATHER PERIODIC IN
	AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS AND DEFICIENCIES IN THE WORK OF THE CONTRACTOR.
SUB A.	MITTALS ALL SHOP DRAWINGS AND SUBMITTALS MUST BE REVIEWED AND APPROVED BY THE
	CONTRACTOR PRIOR TO SUBMITTAL. ENGINEER'S REVIEW OF SHOP DRAWINGS IS LIMITED TO CHECKING FOR GENERAL CONFORMANCE WITH DESIGN DRAWINGS AND STRENGTH OF
	COMPONENTS AND MATERIALS. CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES FROM THE DESIGN DRAWINGS, QUANTITIES, DIMENSIONAL ERRORS, OR OMISSIONS IN THE SHOP
В.	DRAWINGS.  ALL SHOP DRAWINGS MUST BE ORIGINAL DOCUMENTS AND SHALL NOT BE REPRODUCTIONS (
С.	THESE CONTRACT DOCUMENTS.  SUBMIT SHOP DRAWINGS DETAILING FABRICATION OF EACH MEMBER AND ITS CONNECTIONS
C.	DETAIL DRAWINGS ARE TO BE PREPARED UNDER THE SUPERVISION OF A LICENSED
	PROFESSIONAL ENGINEER IN THE STATE OF MISSOURI FOR THE FOLLOWING ITEMS.  1. STRUCTURAL STEEL CONNECTIONS
	<ol> <li>COLD-FORMED METAL FRAMING</li> <li>STEEL BAR JOISTS AND JOIST GIRDERS</li> </ol>
D.	CONTRACTOR SHALL SUBMIT STRUCTURAL SHOP DRAWINGS FOR THE FOLLOWING ITEMS.  1. CONCRETE MIX DESIGN AND MATERIALS
	2. CONCRETE REINFORCING STEEL 3. MASONRY REINFORCING STEEL
	4. STRUCTURAL STEEL
	5. STEEL DECKING 6. COLD-FORMED METAL FRAMING 7. STEEL DAD JOISTS AND JOIST SUPPERS
E.	7. STEEL BAR JOISTS AND JOIST GIRDERS PROVIDE A FINAL, "FOR CONSTRUCTION" SET OF ALL SHOP DRAWINGS TO THE ENGINEER OF
SPE	RECORD PRIOR TO FABRICATION OR CONSTRUCTION OF THOSE ITEMS.  CIAL INSPECTIONS
Α.	THE FOLLOWING MINIMUM ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH THE BUILDING CODE.
	1. CONCRETE PLACING
	3. STEEL BOLTING
	<ol> <li>STEEL WELDING</li> <li>BOLTS EMBEDDED IN CONCRETE / POST-INSTALLED ANCHORS</li> </ol>
	6. MASONRY 7. ANCHOR RODS

THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF

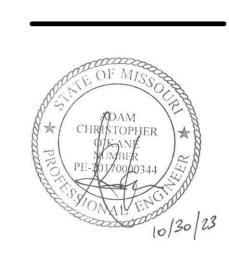
		INSPECTION	FREQUENCY
		CONTINUOUS	PERIODIO
REQU	IRED VERIFICATION AND INSPECTION OF STRUCTURAL STEEL CONSTRUCTION		
1.	MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:		
	A. IDENTIFICATION MARKING TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.  B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	-	X
2.	INSPECTION OF HIGH-STRENGTH BOLTING: (INSPECTION SHALL BE IN ACCORDANCE WITH AISC SPECIFICATIONS)	-	X
	A. SNUG-TIGHT JOINTS.	-	Х
	B. PRE-TENSIONED AND SLIP-CRITICAL JOINTS USING THE TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT DIRECT TENSION INDICATOR METHODS OF INSTALLATION.	-	X
	C. PRE-TENSIONED AND SLIP-CRITICAL JOINTS USING THE CALIBRATED WRENCH OR TURN-OF-NUT METHOD WITHOUT MATCHMARKING OR	Х	-
3.	CALIBRATED WRENCH METHODS OF INSTALLATION.  MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:		
<u> </u>	A. FOR STRUCTURAL STEEL, INDENTIFICATION MARKING TO CONFORM TO AISC 360.	-	X
	B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	Х
	C. MANUFACTURERS' CERTIFIED TEST REPORTS.  MATERICAL VERIFICATION OF WELD FILLER MATERIALS.	-	X
4.	MATERICAL VERIFICATION OF WELD FILLER MATERIALS:  A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	X
	B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE.	-	Х
5.	INSTPECTION OF WELDING: (WELDING INSPECTION SHALL BE IN COMPLIANCE WITH AWS D1.1)(IN COOPERATION WITH OWNER'S TESTING LAB)		
	A. STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:  1. COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS.	X	
	2. MULTIPASS FILLET WELDS.  2. MULTIPASS FILLET WELDS.	X	
	3. SINGLE-PASS FILLET WELDS > 5/16.	Х	-
	4. PLUG AND SLOT WELDS.	X	-
	<ul><li>5. SINGLE PASS FILLET WELDS ≤ 5/16.</li><li>6. FLOOR AND ROOF DECK WELDS.</li></ul>	- -	X X
	B. REINFORCING STEEL:		^
	VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	-	Х
	2. REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	Х	-
	3. SHEAR REINFORCEMENT.	Х	<u>-</u>
	4. OTHER REINFORCING STEEL.	-	Х
6.	INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:  A. DETAILS SUCH AS BRACING AND STIFFENING.		V
	A. DETAILS SUCH AS BRACING AND STIFFENING.  B. MEMBER LOCATIONS.	-	X
	C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	-	Х
7.	INSPECTION OF COLD-FORMED STEEL TRUSSES SPANNING 60 FT OR GREATER:		
	A. VERIFY TEMPORARY INSTALLATION RESTRAINT/BRACING AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.	-	Х
2.	INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.3 (REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION, INSPECTION OF WELDING, REINFORCING STEEL).	Х	-
3.	INSPECTION OF BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	X	-
4.	INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE.	Х	-
5. 6.	VERIFYING USE OF REQUIRED DESIGN MIX.  AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND	X	-
···	DETERMINE THE TEMPERATURE OF THE CONCRETE.		
7. 8.	INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.  INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	X	- X
9.	INSPECTION OF PRESTRESSED CONCRETE:	_	Λ
	A. APPLICATION OF PRESTRESSING FORCES.	-	Х
	B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	-	X
10.	ERECTION OF PRECAST CONCRETE MEMBERS.  VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONRETE AND PRIOR TO REMOVAL OF SHORES	-	X
	AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		
12.	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF CONCRETE MEMBER BEING FORMED.	-	X
	RED VERIFICATION AND INSPECTION OF SOILS (IN COOPERATION WITH OWNERS' GEOTECHNICAL TESTING AGENCY)  VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADSOLUTE TO ACHIEVE THE DESIGN READING CARACITY		
1. 2.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.  VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3.	PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.		X
4.	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	Х	-
5.	PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		
	IRED VERIFICATION AND INSPECTION OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS (IN COOPERATION W/ OWNER'S GEOTECHNICAL TESTING AGENCY)		
1. 2.	OBSERVE DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.  VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), EMBEDMENT INTO BEDROCK (IF	X	-
	APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	^	_
3.	FOR CONCRETE ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH THE REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION NOTED ABOVE.	-	Х
REQU	RED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION		
1.	COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS.	<u>-</u>	Х
	VERIFICATION OF F'M AND F'AAC PRIOR TO CONSTRUCTION AND FOR EVERY 5000 SQUARE FEET DURING CONSTRUCTION.	-	Х
	VERIFICATION OF PROPORTIONS OF MATERIALS IS PREMIXED OR PREBLEDED MORAR AND GROUT AS DELIVERED TO THE SITE.	-	Х
3.	VERIFICATION OF SLUMP FLOW AND VSLAS DELIVERD TO THE SITE FOR SELE-CONSOLIDATION COOLIT	Y	_
3. 4.	VERIFICATION OF SLUMP FLOW AND VSI AS DELIVERD TO THE SITE FOR SELF-CONSOLIDATION GROUT.  THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:	Х	-
<ol> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> </ol>		X	- X
3. 4.	THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:  A. PROPORTIONS OF SITE-PREPARED MORTAR, GROUT, AND PRESTRESSING FOR BONDED TENDONS.  B. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORAR JOINTS.	- -	Х
3. 4.	THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:  A. PROPORTIONS OF SITE-PREPARED MORTAR, GROUT, AND PRESTRESSING FOR BONDED TENDONS.  B. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORAR JOINTS.  C. PLACEMENT OF REINFORCEMENT CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES.	- - -	
3. 4.	THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:  A. PROPORTIONS OF SITE-PREPARED MORTAR, GROUT, AND PRESTRESSING FOR BONDED TENDONS.  B. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORAR JOINTS.  C. PLACEMENT OF REINFORCEMENT CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES.  D. GROUT SPACE PRIOR TO PLACEMENT.	- - - X	Х
3. 4.	THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:  A. PROPORTIONS OF SITE-PREPARED MORTAR, GROUT, AND PRESTRESSING FOR BONDED TENDONS.  B. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORAR JOINTS.  C. PLACEMENT OF REINFORCEMENT CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES.	- - -	Х
3. 4.	THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:  A. PROPORTIONS OF SITE-PREPARED MORTAR, GROUT, AND PRESTRESSING FOR BONDED TENDONS.  B. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORAR JOINTS.  C. PLACEMENT OF REINFORCEMENT CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES.  D. GROUT SPACE PRIOR TO PLACEMENT.  E. PLACEMENT OF GROUT.  F. PLACEMENT OF PRESTRESSING GROUT.  G. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	- - - X X	Х
3. 4.	THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:  A. PROPORTIONS OF SITE-PREPARED MORTAR, GROUT, AND PRESTRESSING FOR BONDED TENDONS.  B. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORAR JOINTS.  C. PLACEMENT OF REINFORCEMENT CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES.  D. GROUT SPACE PRIOR TO PLACEMENT.  E. PLACEMENT OF GROUT.  F. PLACEMENT OF PRESTRESSING GROUT.	- - - X X	X X - -
3. 4.	THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:  A. PROPORTIONS OF SITE-PREPARED MORTAR, GROUT, AND PRESTRESSING FOR BONDED TENDONS.  B. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORAR JOINTS.  C. PLACEMENT OF REINFORCEMENT CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES.  D. GROUT SPACE PRIOR TO PLACEMENT.  E. PLACEMENT OF GROUT.  F. PLACEMENT OF PRESTRESSING GROUT.  G. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.  H. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR	- - - X X	X X - - - X
3. 4.	THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:  A. PROPORTIONS OF SITE-PREPARED MORTAR, GROUT, AND PRESTRESSING FOR BONDED TENDONS.  B. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORAR JOINTS.  C. PLACEMENT OF REINFORCEMENT CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES.  D. GROUT SPACE PRIOR TO PLACEMENT.  E. PLACEMENT OF GROUT.  F. PLACEMENT OF PRESTRESSING GROUT.  G. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.  H. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.	- - - X X	X X - - - X X

X -









## SUMMIT,

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# LEE'S SUMMIT - MARKET I

DESCRIPTION DATE

PROJECT NO: 18225R21006

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S-101

FOUNDATION PLAN



L3X3X1/4 VERTICAL BRACE TYPICAL NEAR END AT STUD WALL—

—L3X3X1/4 VERTICAL BRACE TYPICAL
NEAR EACH DIVIDING PARTITION

-L3X3X1/4 DIAGONAL BRACE TYPICAL AT VERTICAL BRACE AS SHOWN

-L3X3X1/4 DIAGONAL BRACE BETWEEN VERTICAL BRACES

NEAR END AT CMU WALL

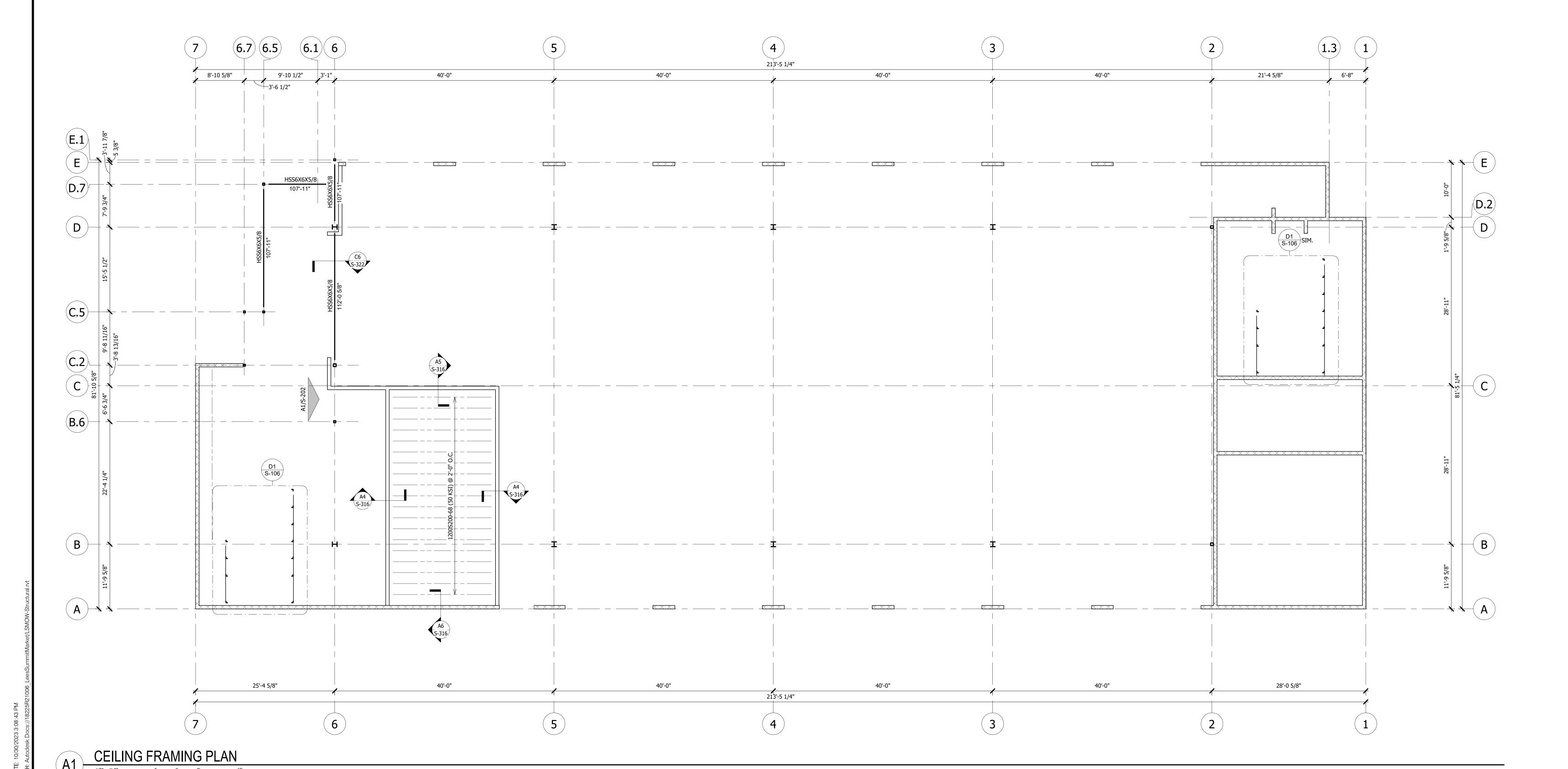
-L3X3X1/4 VERTICAL BRACE TYPICAL

-- L3X3X1/4 DIAGONAL BRACE BETWEEN VERTICAL BRACES

NOTE: FRAMING LAYOUT TO ALIGN WITH TOILET PARTITIONS PER ARCHITECTURAL DRAWINGS.

L3X3X1/4 DIAGONAL BRACE BETWEEN VERTICAL BRACES—

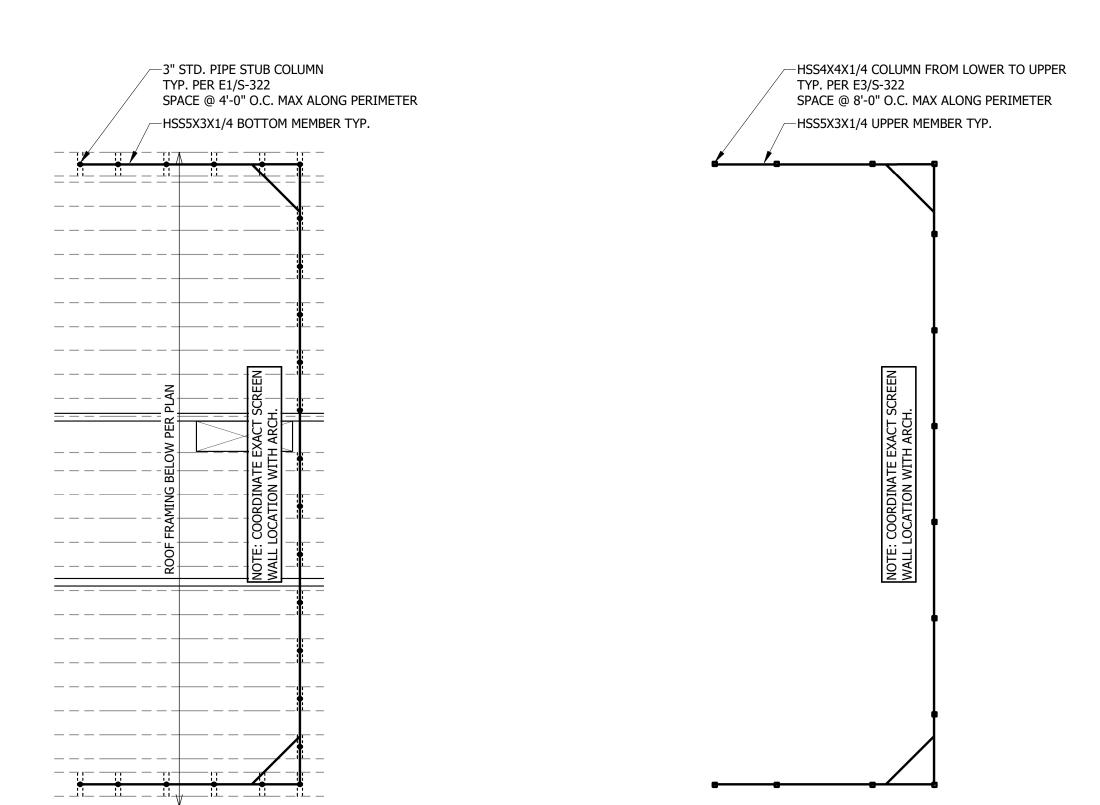
L3X3X1/4 DIAGONAL BRACE BETWEEN VERTICAL BRACES—



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COORDINATE ALL ROOF AND WALL PENETRATIONS WITH ALL OTHER DISCIPLINES.

REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.



MECH. SCREEN LOWER FRAMING PLAN

1/8" = 1'-0"

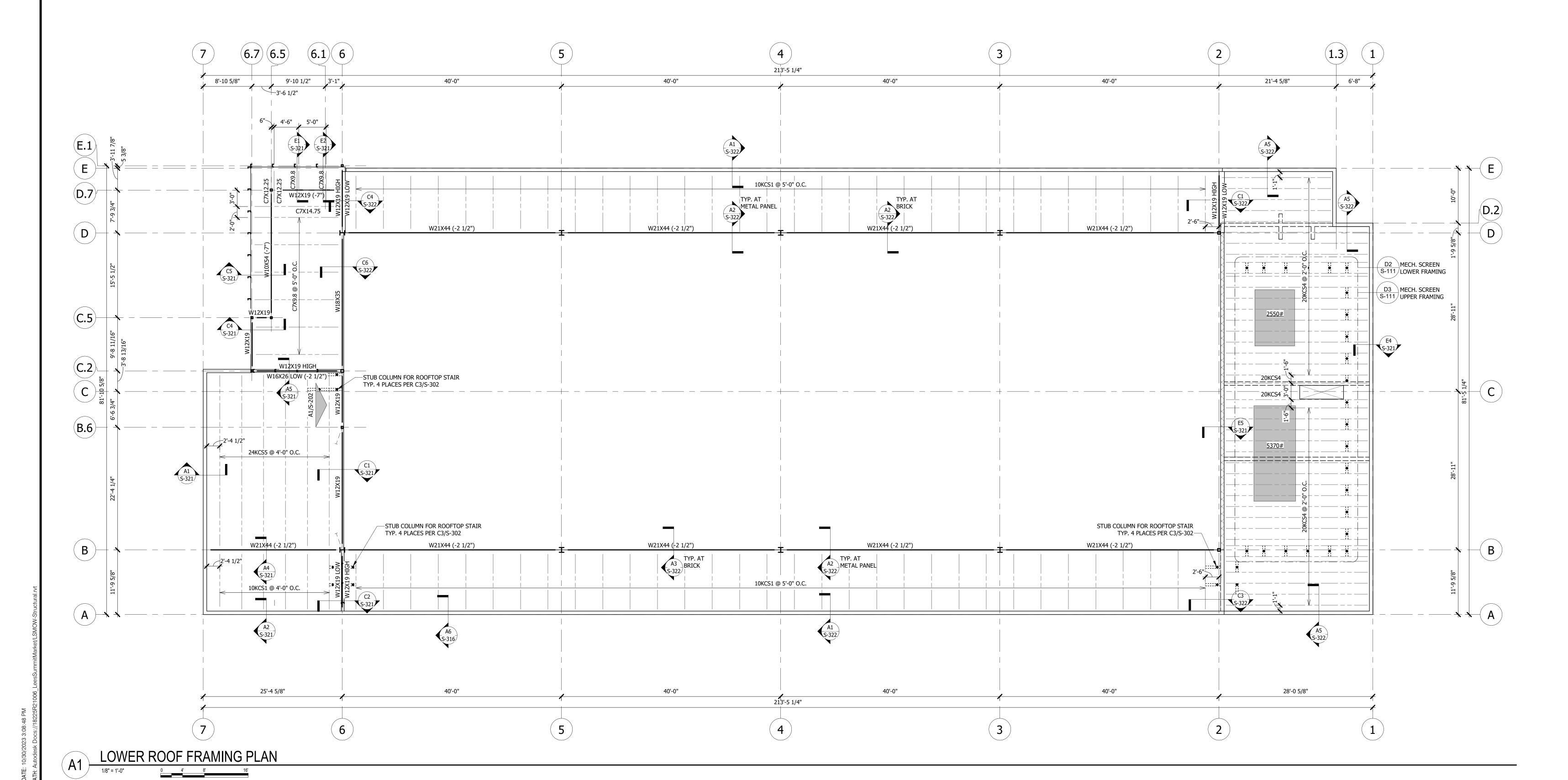
MECH. SCREEN UPPER FRAMING PLAN

1/8" = 1'-0"

MECH. SCREEN UPPER FRAMING PLAN

1/8" = 1'-0"

MECH. SCREEN UPPER FRAMING PLAN







# LEE'S SUMMIT - MARKET PLA

DESCRIPTION DATE

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LOWER ROOF FRAMING PLAN

S-111

1. UPPER ROOF DECK TO BE 2.0DA 20 GAGE ACOUSTICAL DOVETAIL METAL ROOF DECK. ATTACH TO SUPPORTING STEEL IN A 24.5/4 PATTERN WITH #12 TEK SCREWS AND AT SIDELAPS WITH (5) #10 TEK

SCREWS BETWEEN SUPPORTS.

LOWER ROOF DECK TO BE 1.5B 20 GAGE METAL ROOF DECK. ATTACH TO SUPPORTING STEEL IN A 36/5 PATTERN WITH #12 TEK SCREWS AND AT SIDELAPS WITH (2) #10 TEK SCREWS BETWEEN SUPPORTS.

REFER TO PLAN FOR TOP OF STEEL ELEVATIONS AND SLOPING INFORMATION. ROOF EDGE ANGLE SHOWN IN SECTIONS TO BE CONTINUOUS AROUND PERIMETER OF ROOF.

ROOF JOISTS TO BE DESIGNED FOR 10 PSF UPLIFT INTERIOR, NET 10 PSF EDGE, AND NET 10 PSF

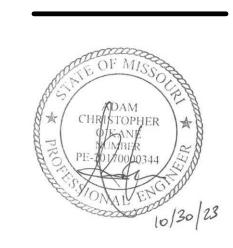
6. ROOF JOISTS TO BE DESIGNED FOR MAXIMUM SNOW DRIFT OF 42 PSF AT PARAPET WITH A BASE SNOW OF 15.4 PSF. BALANCED SNOW PER GENERAL NOTES.

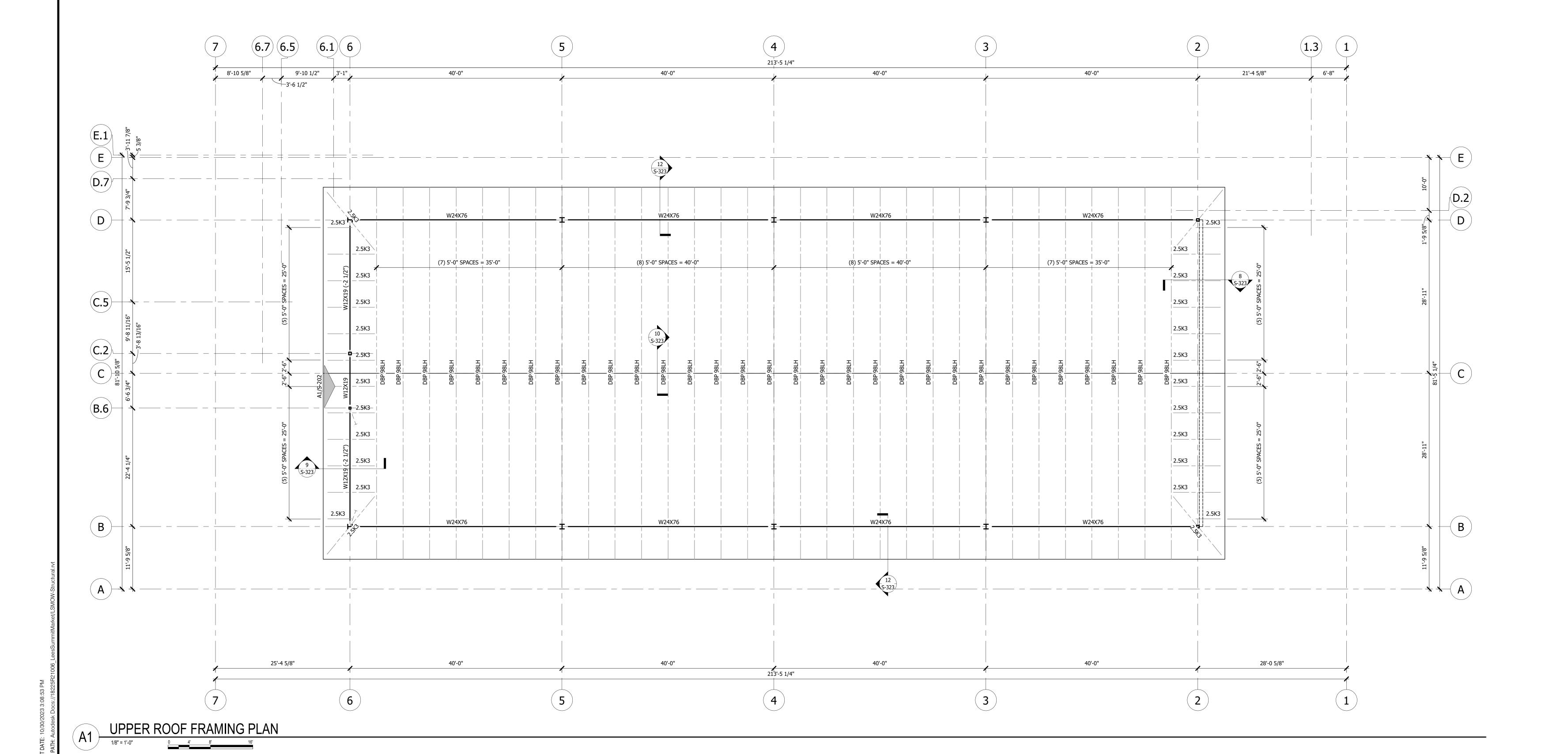
WITH MECHANICAL. REFER TO SHEET S-301 & S-302 FOR TYPICAL DETAILS.

COORDINATE ALL ROOF AND WALL PENETRATIONS WITH ALL OTHER DISCIPLINES. 10. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.

STEEL AND JOIST FABRICATOR RESPONSIBLE FOR ANY POINT LOADS IN EXCESS OF 100# NOT OCCURING AT A JOIST PANEL POINT. PROVIDE REINFORCEMENT PER TYPICAL DETAIL. COORDINATE LOCATIONS



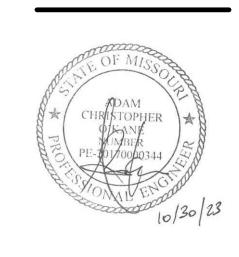




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UPPER ROOF FRAMING PLAN





DESCRIPTION DATE

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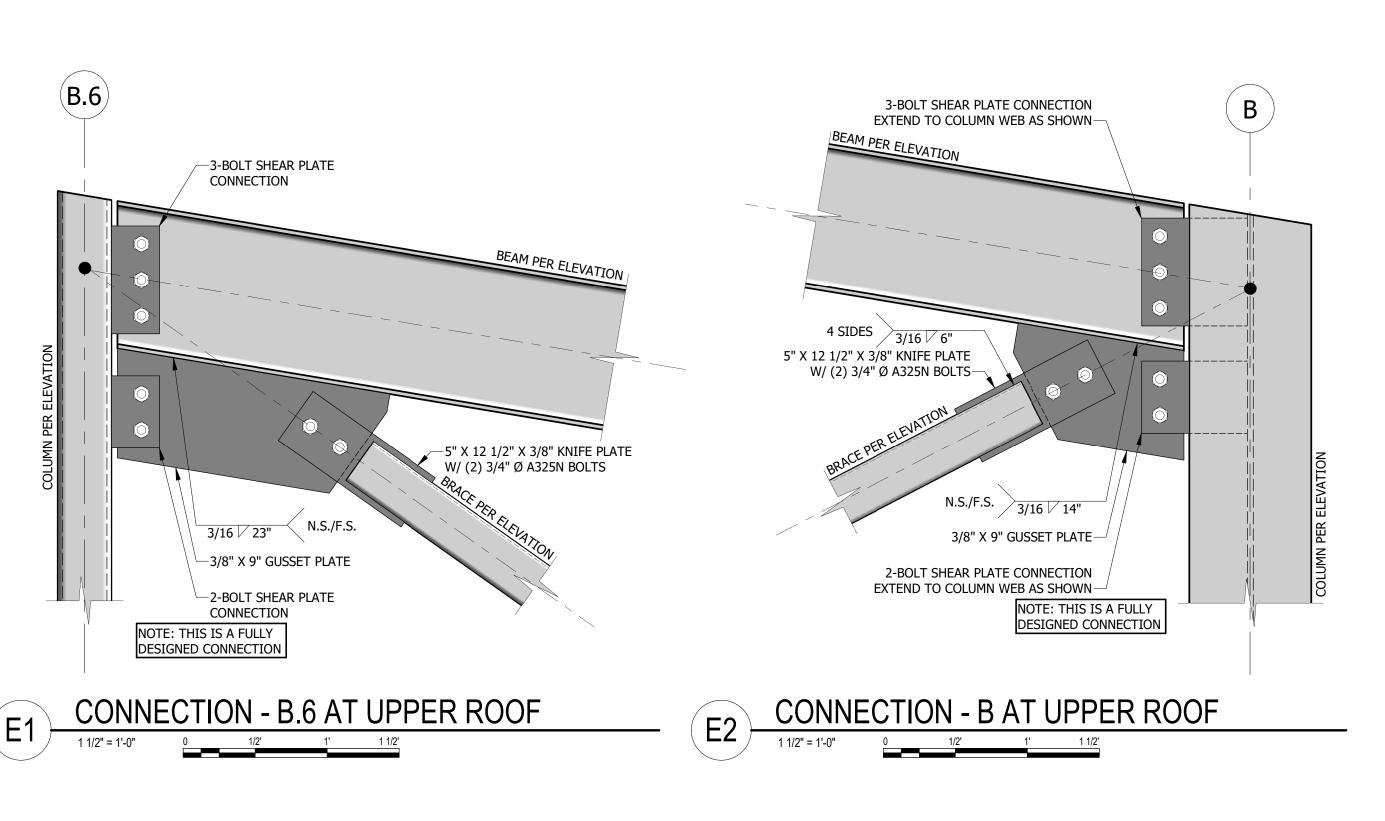
CHECKED BY: ACO

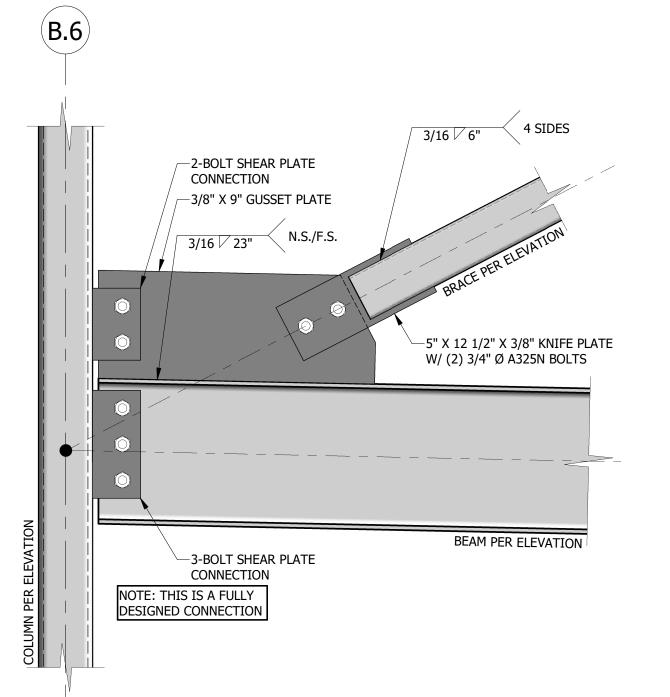
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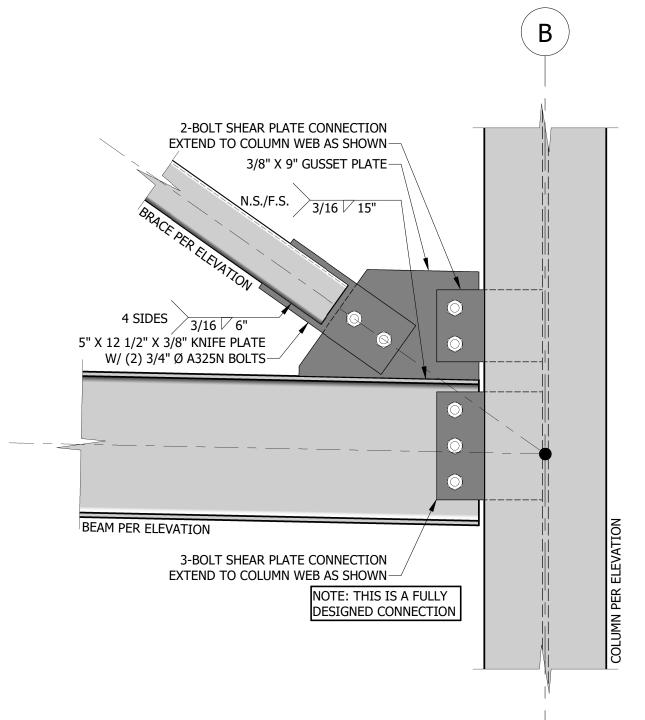
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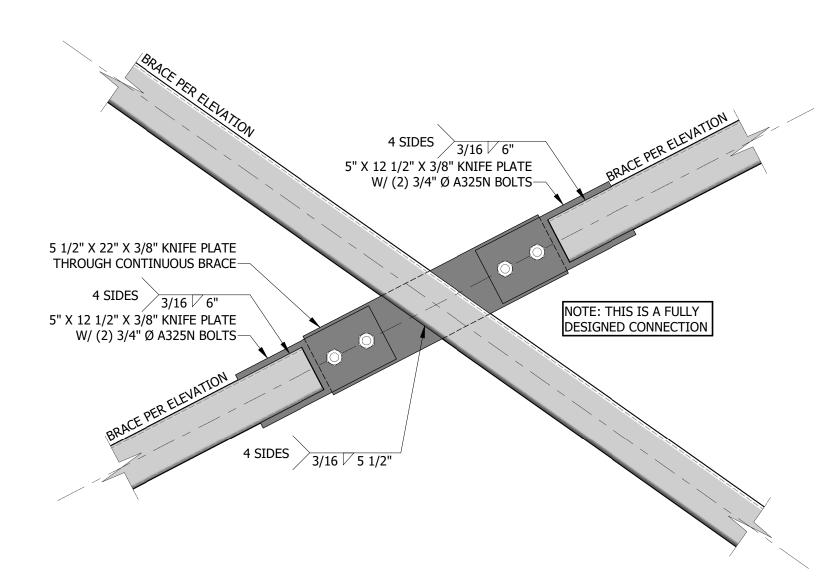
BRACED FRAME ELEVATION AND DETAILS

S-202









C1 CONNECTION - B.6 AT LOWER ROOF

C2 CONNECTION - B AT LOWER ROOF

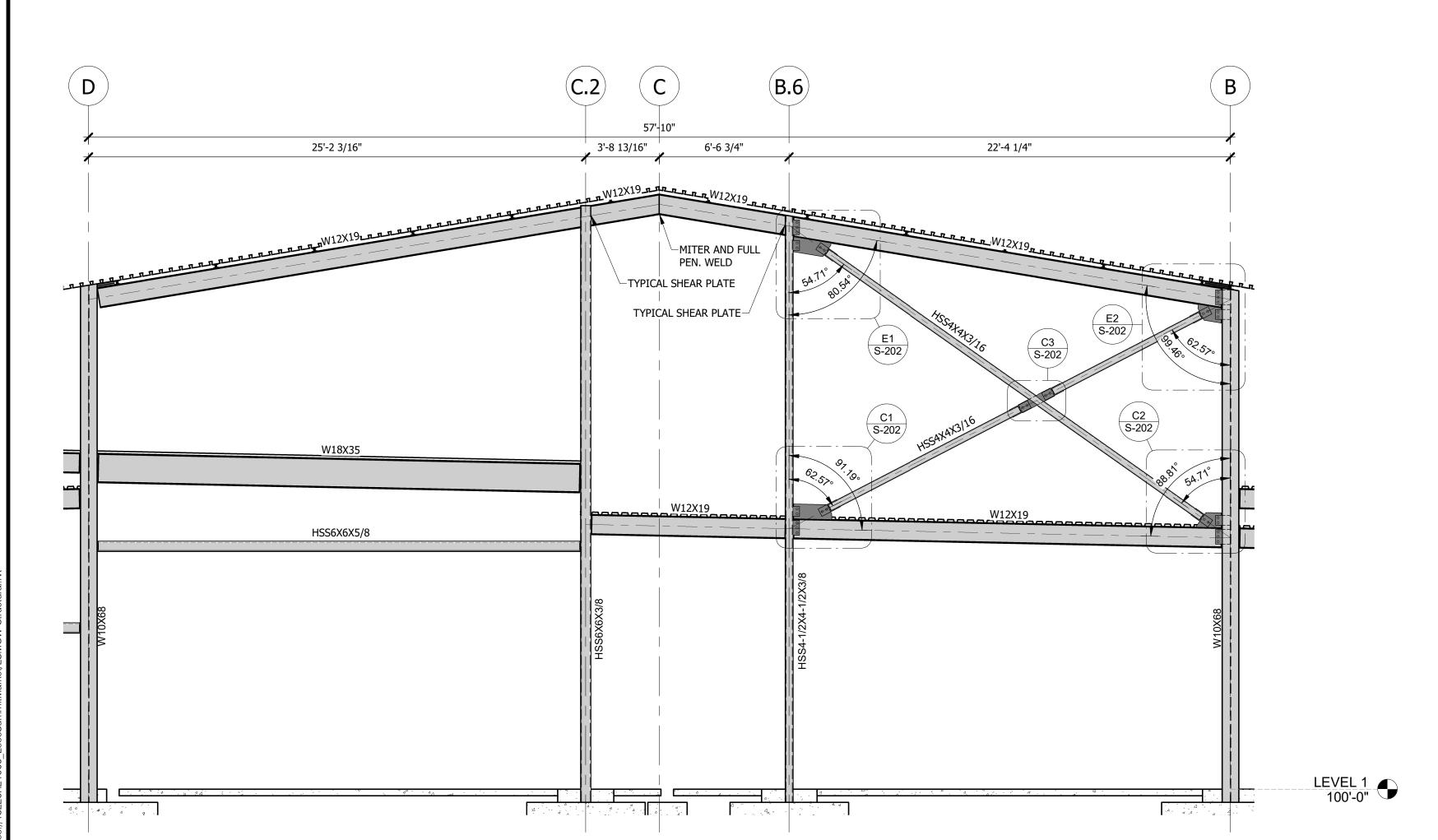
1 1/2" = 1'-0"

0 1/2' 1 1/2'

CONNECTION - BRACE INTERSECTION

1 1/2" = 1'-0"

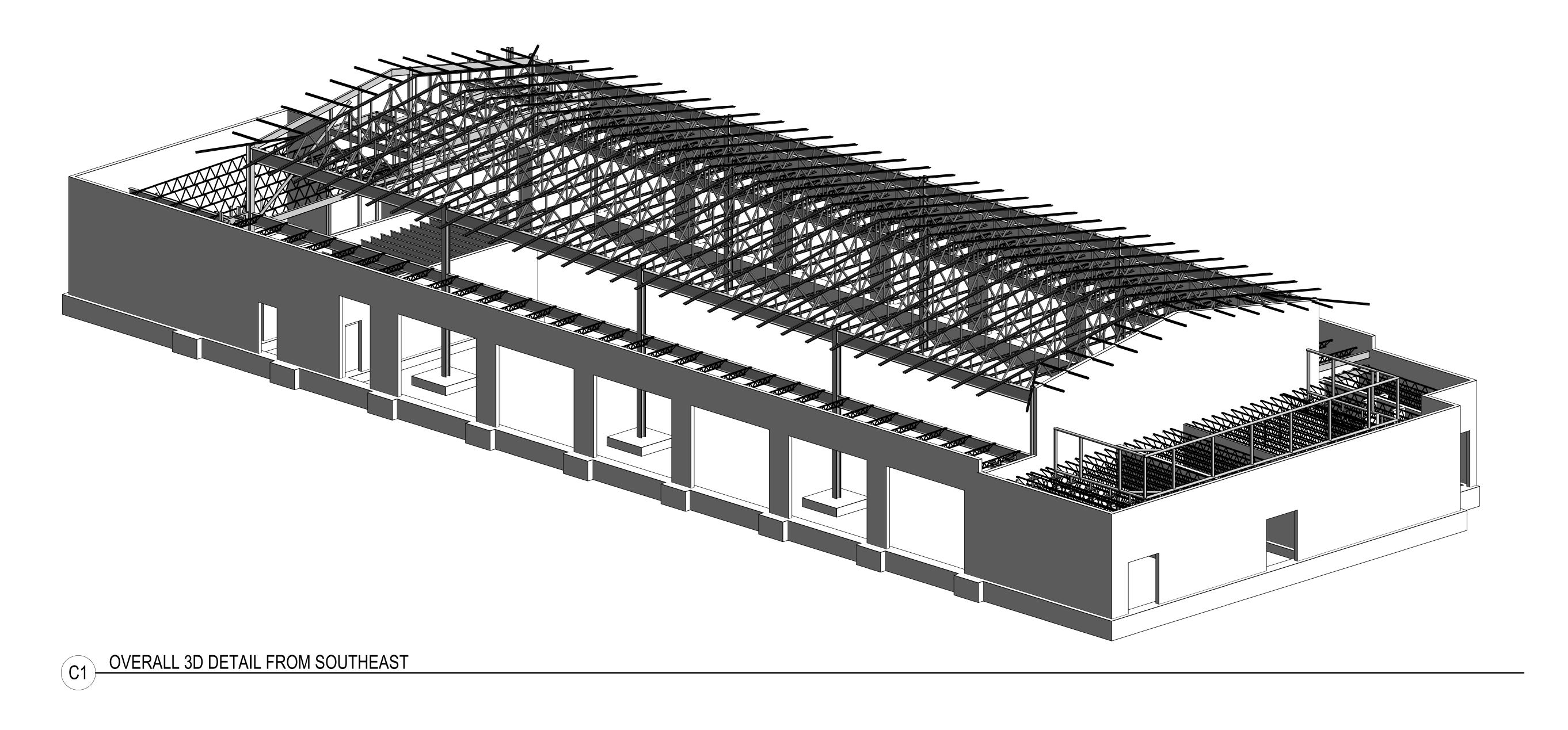
1 1/2" 1 1/2"











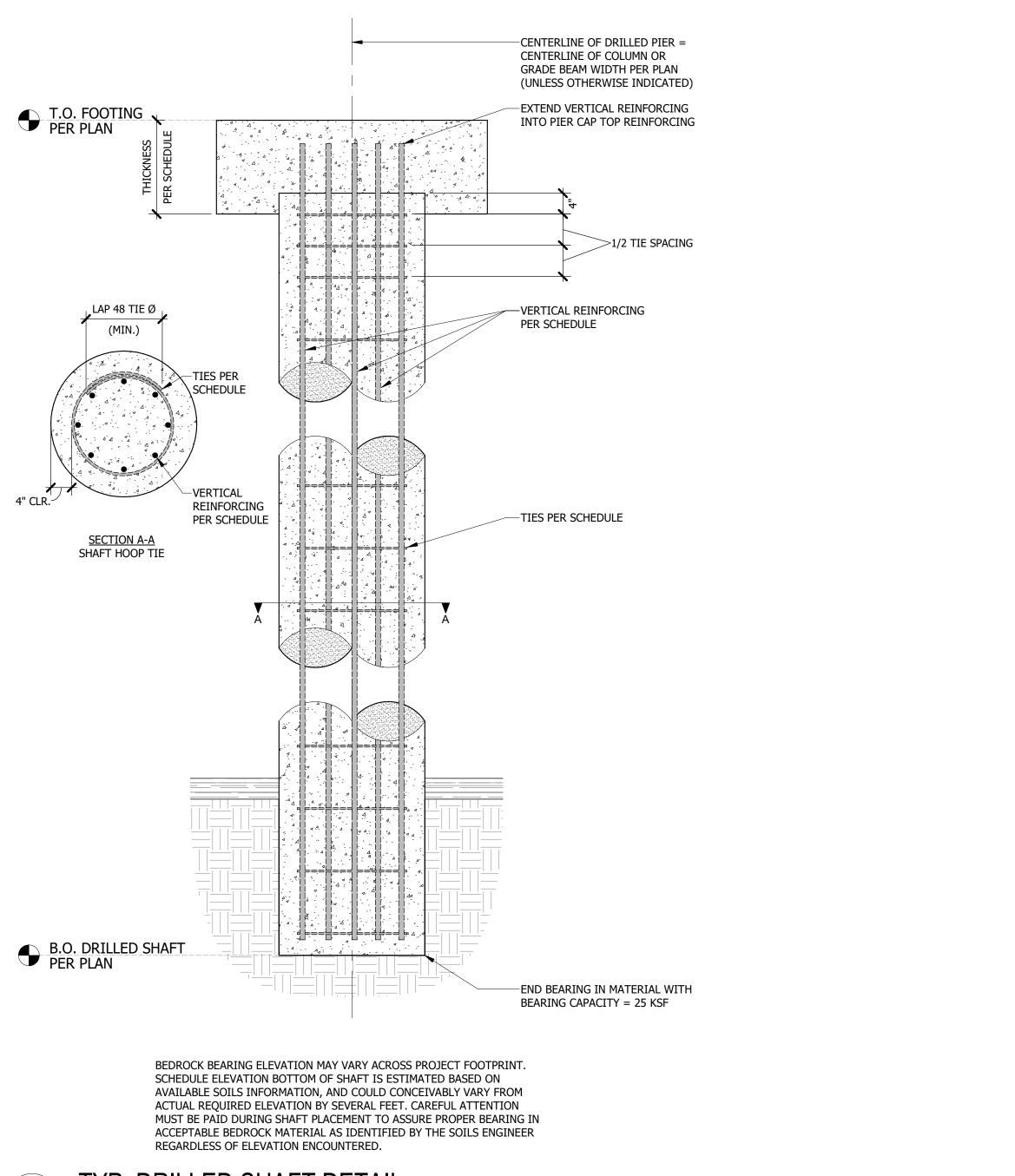
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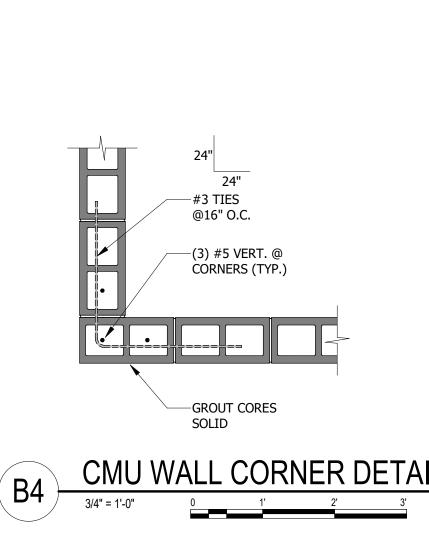
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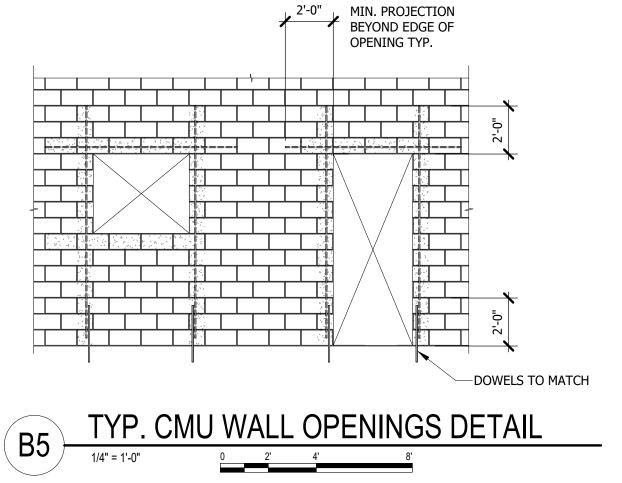
OVERALL 3D DETAILS

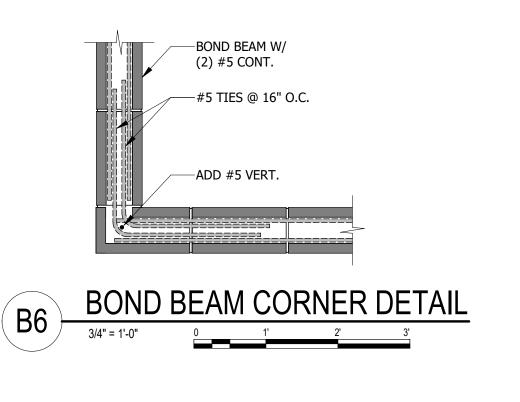
S-251

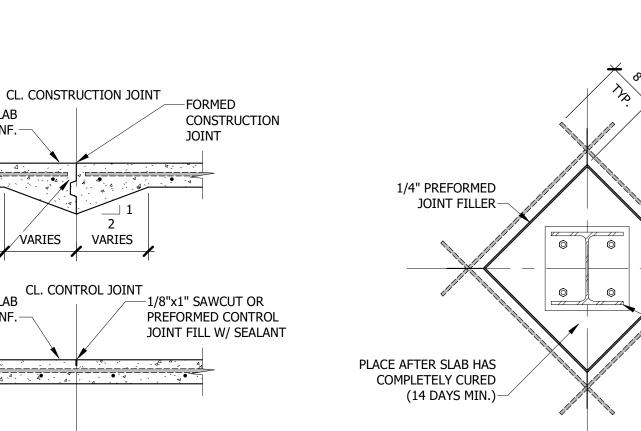




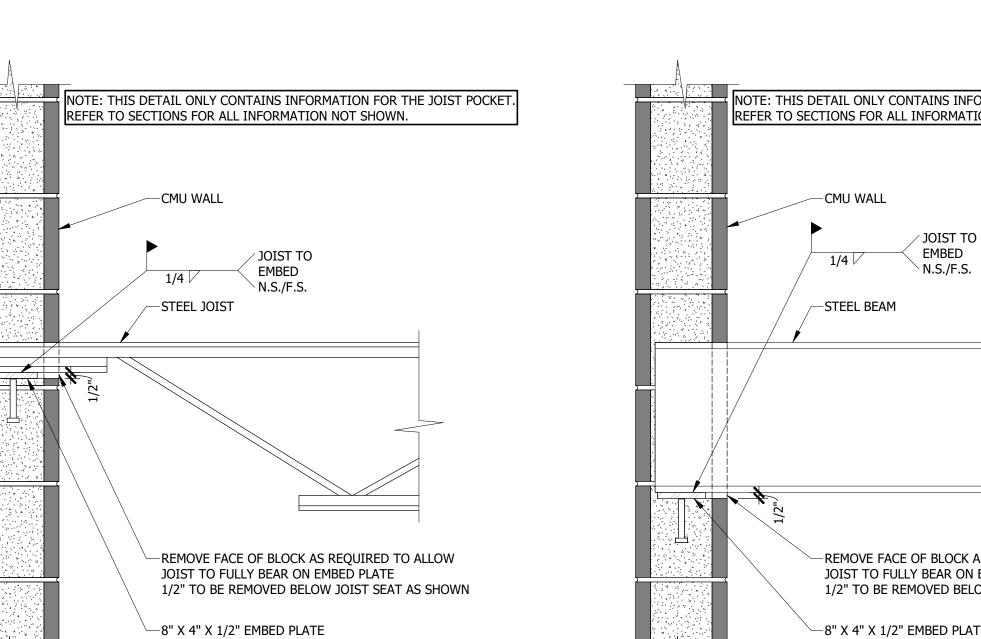


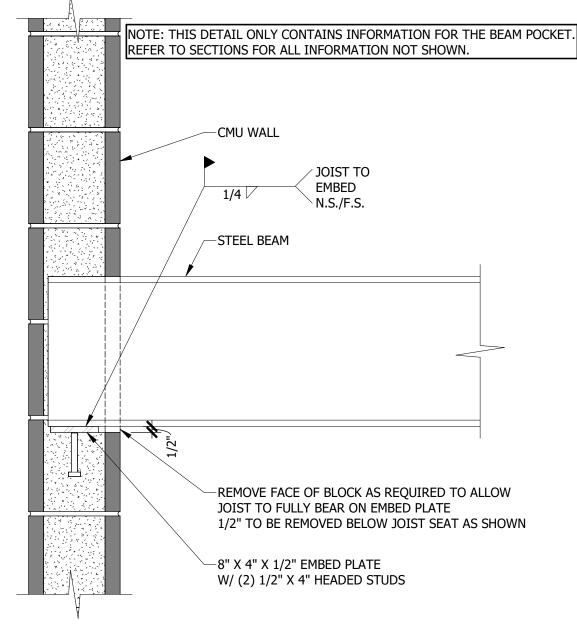






—(1)#4 PLACED AS SHOWN	
—SLAB CONTROL OR CONTSTR. JOINT —	
	COORDINATE LOCATION OF SLEEVE PENETRATIONS WITH ALL OTHER DISCIPLINES  2d d 2d  THICKEN CONCRETE TO PROVIDE 6" MIN. COVER AROUND PIPE SLEEVE WHEN SLEEVE POSITION IS WITHIN 6" OF BOTTOM OF FOOTING



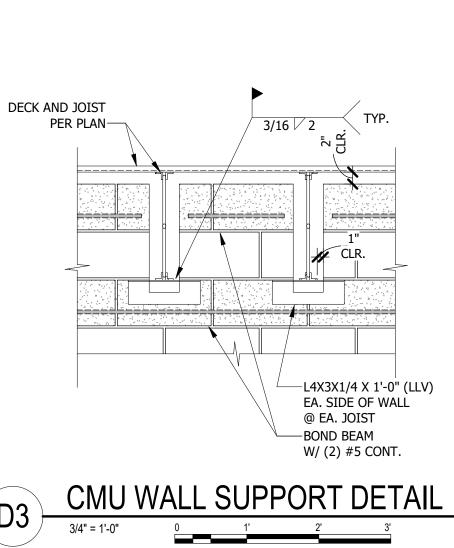


−(2) #5 HORIZ.

—(2) #5 VERT.

GROUT CELLS SOLID

CMU WALL



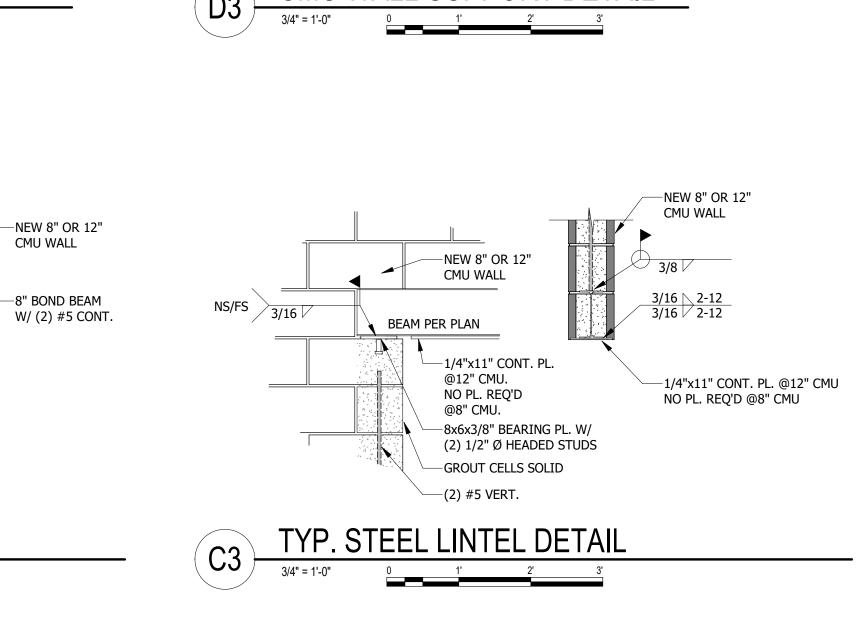
8" BOND BEAM W/ (2) #5 CONT.-

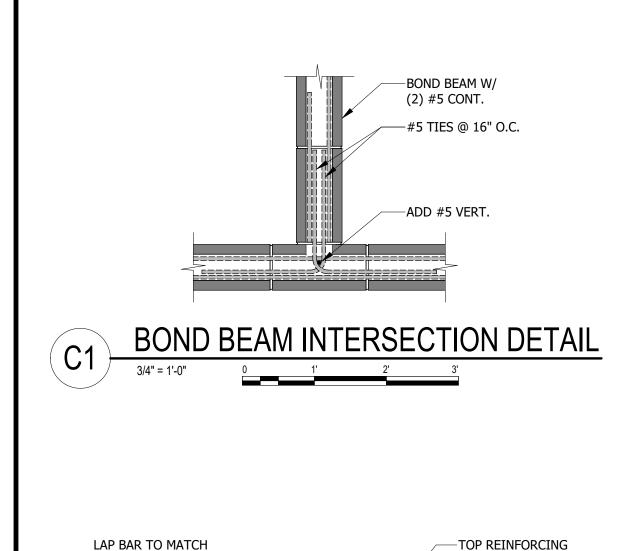
-Roof Deck Per Plan

-(2) L4X3X1/4 8" LONG @ 48" O.C. EA. SIDE OF MASONRY

——8" CMU W/

#5 @ 32" O.C.





HORIZ. DIM =

VERT. STEP DIM

SIZE AND SPACING OF

FOOTING REINFORCING-

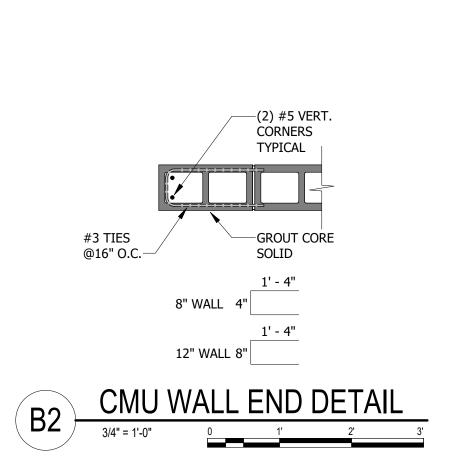
IN FOOTING PER

-BOTTOM REINFORCING

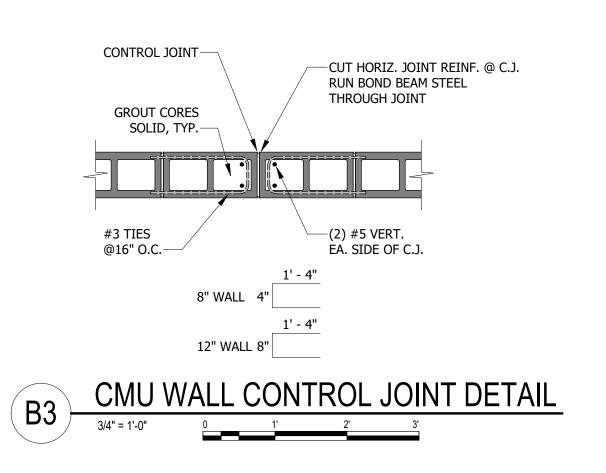
IN FOOTING PER

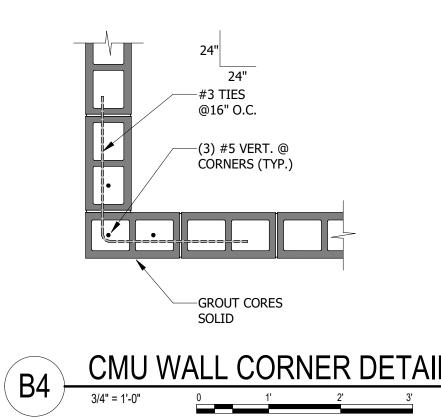
DETAILS

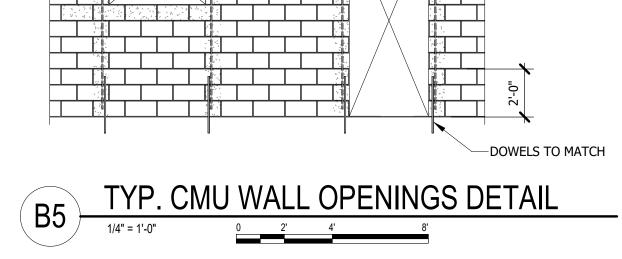
W/ (2) 1/2" X 4" HEADED STUDS



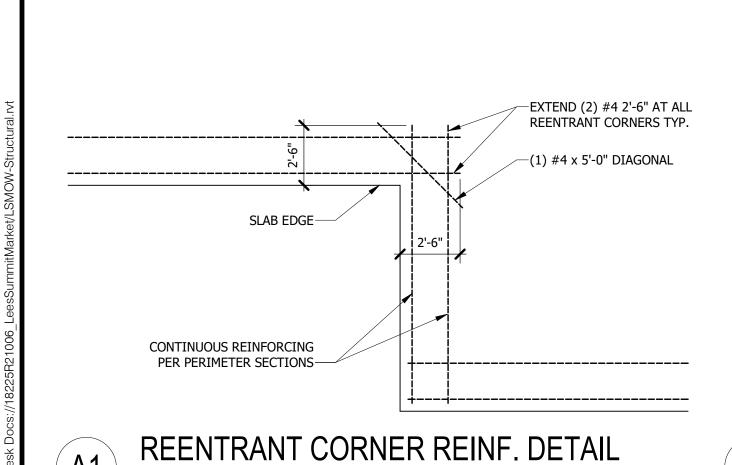
2'-0" MIN.

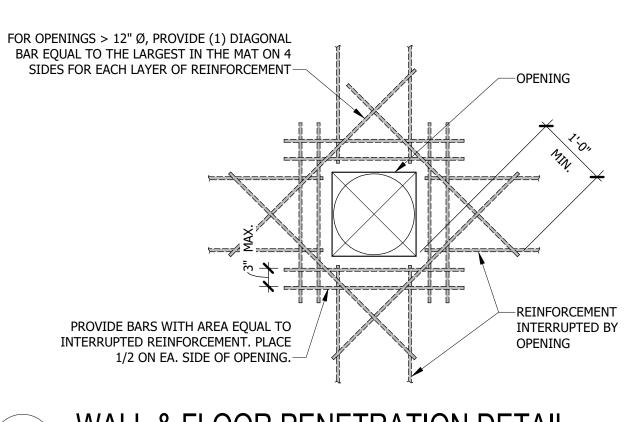


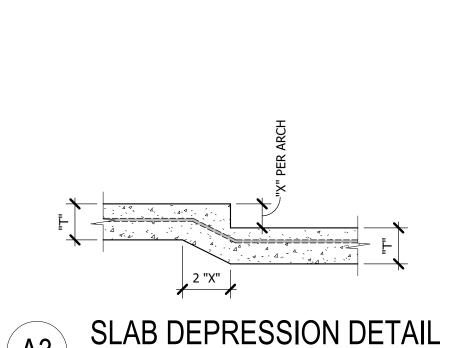


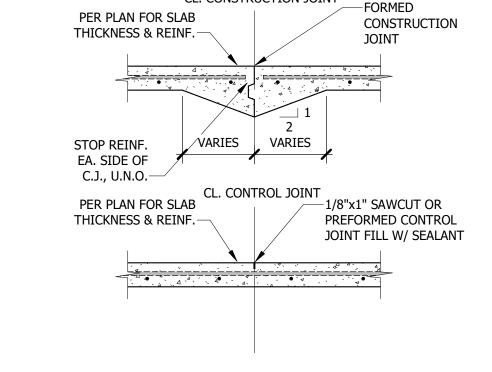


—(1)#4 PLACED











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11/01/2023

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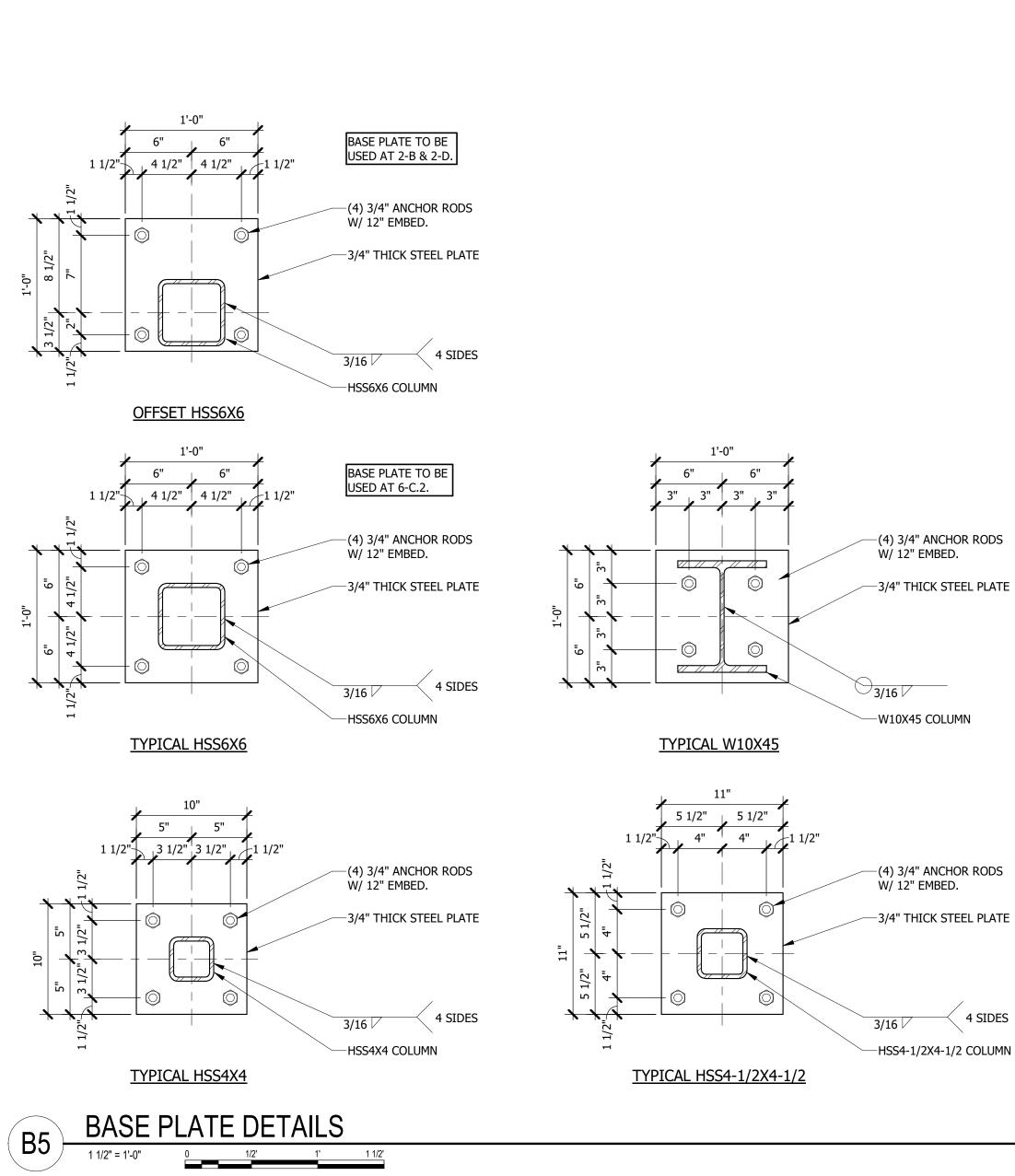
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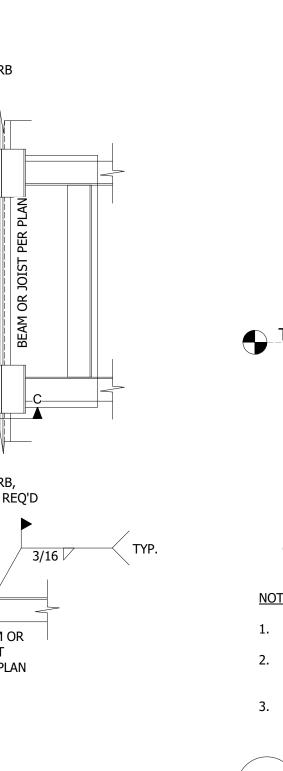
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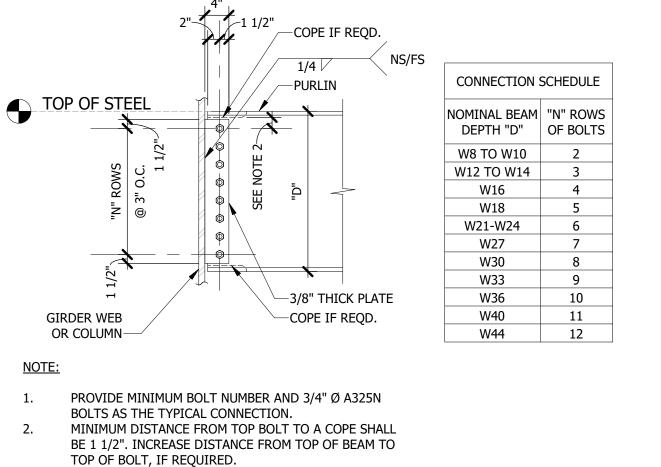
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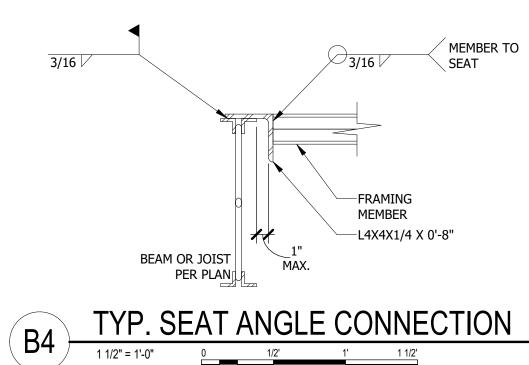
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TYPICAL DETAILS









-PREFABRICATED ROOFTOP STAIR POST WITH BASE PLATE

COORDINATE LOCATION WITH ARCH.

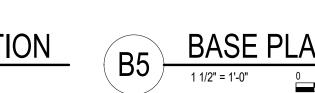
-3" STD. PIPE STUB COLUMN

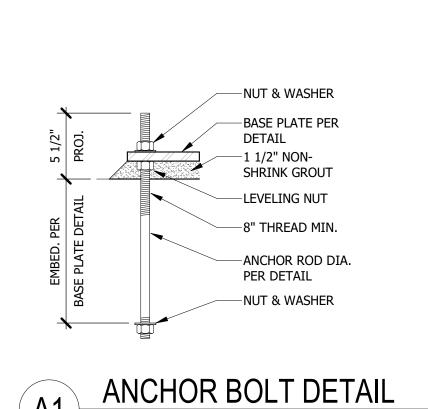
-ROOF SYSTEM PER ARCH.

ROOF JOIST BEYOND

-L3X3X1/4 TYP. 4 PLACES AS SHOWN

SPAN BETWEEN ADJACENT ROOF FRAMING ATTACH TO FRAMING PER B4/S-302



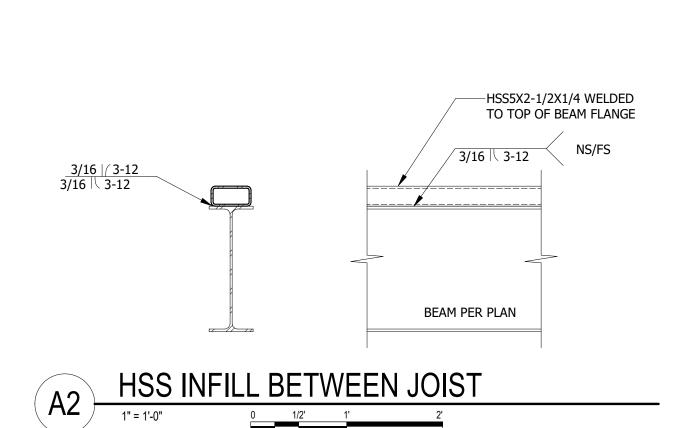


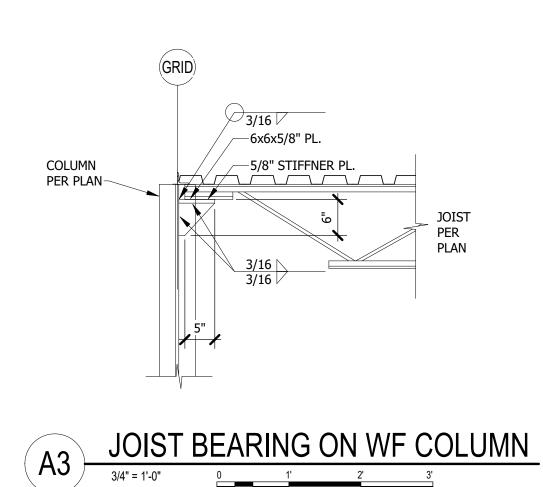
ROOF OPENING AND RTU SUPPORT DETAILS

3/4" = 1'-0"

1 2 3

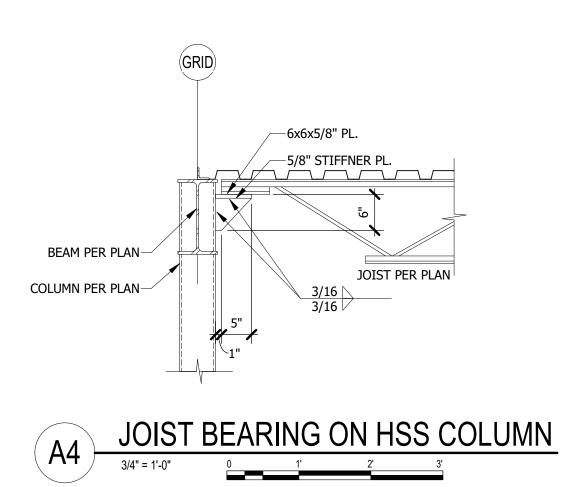
THAN 6" ANGLE MAY BE OMITTED.

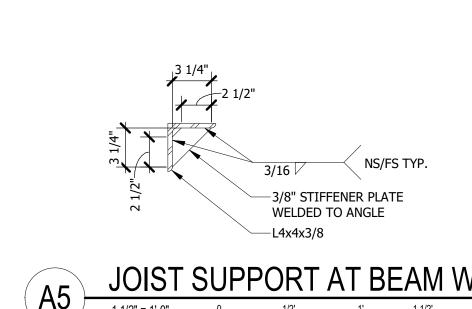


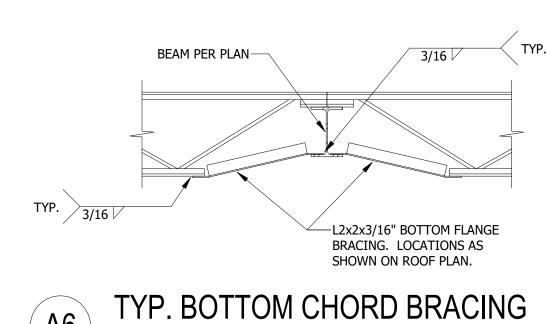


USE ONLY STANDARD HOLES TO GIRDER WEB. USE

HORIZONTAL SHORT SLOTTED HOLES TO PURLIN WEB.







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	CHECKED BY:	ACC
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•	TYPICAL DET	AILS

PROJECT NO:

STATUS:

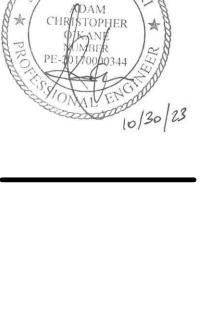
SUMMIT,

18225R21006

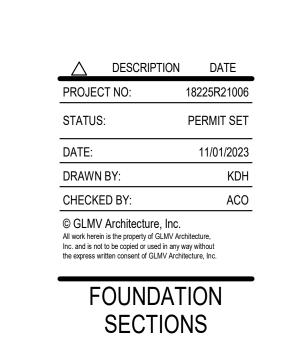
PERMIT SET

S-302

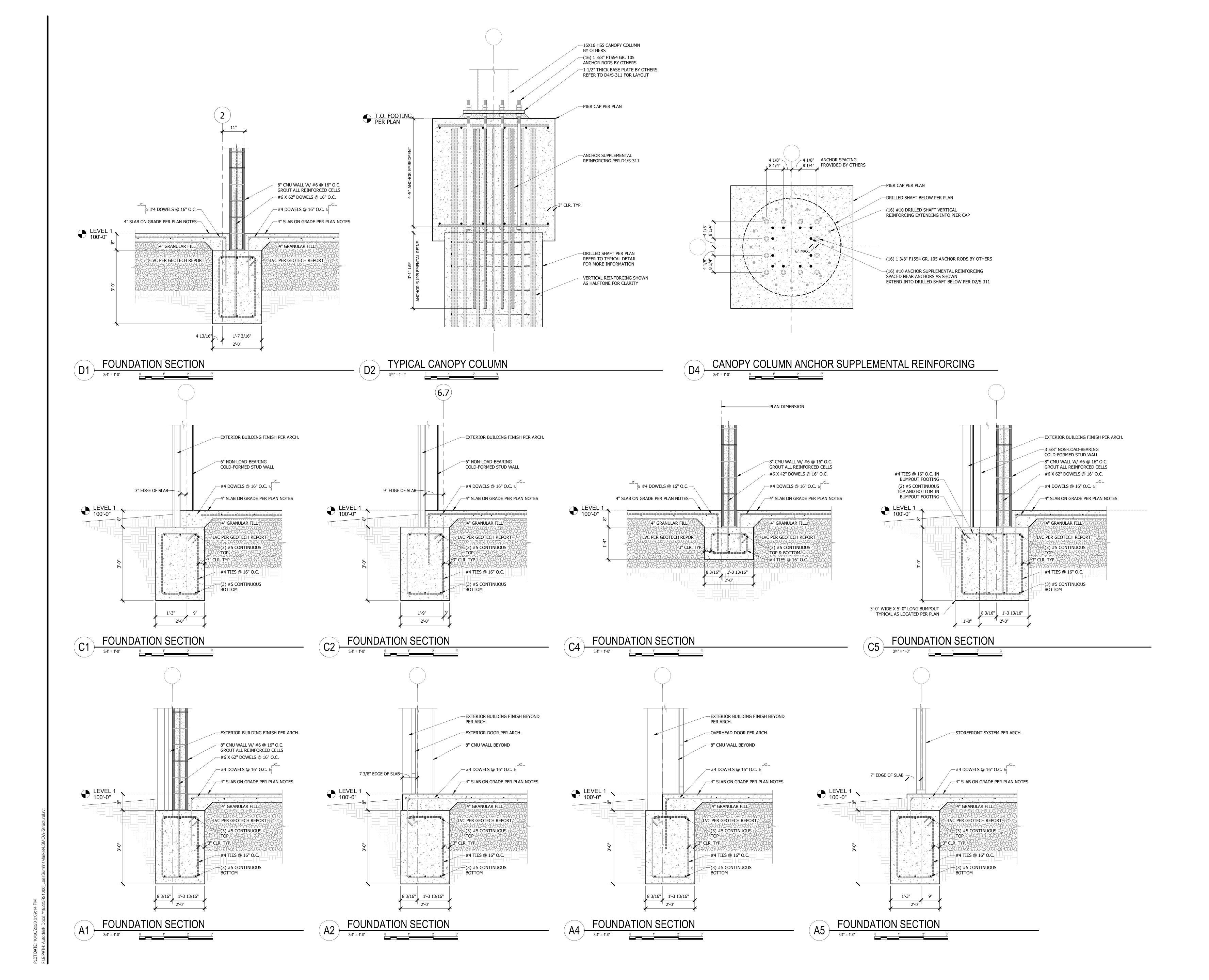






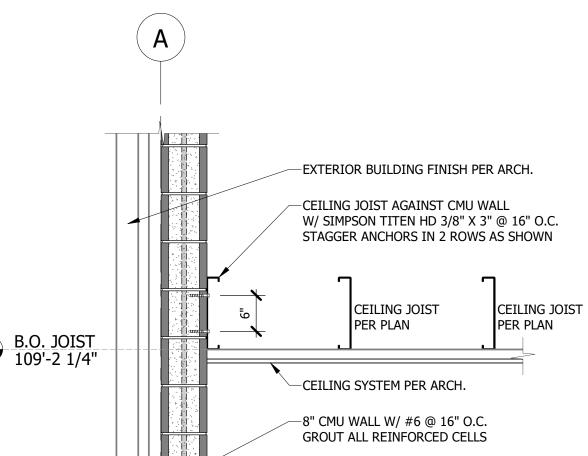


S-311









NOTE: ROOF FRAMING MEMBERS NOT SHOWN FOR CLARITY. VERTICAL AND DIAGONAL BRACES SHALL BE PLACED AS REQUIRED TO AVOID ROOF FRAMING MEMBERS. -L3X3X1/4 DIAGONAL BRACE AS LOCATED PER PLAN —L3X3X1/4 VERTICAL BRACE AS LOCATED PER PLAN L3X3X1/4 VERTICAL BRACE AS LOCATED PER PLAN-3/16 VERT. TO HORIZ. VERT. TO 3/16 HORIZ. 3/16 B.O. STEEL 109'-2 1/8" CEILING SYSTEM PER ARCH.-L3X3X1/4 HORIZ. PARTITION SUPPORT ALIGNED WITH PARTITION BELOW—

T.O. WALL 112'-0" -8" Bond Beam W/ (2) #5 Continuous -SIMPSON SSC4.25 AT EACH JOIST W/ SIMPSON TITEN HD 3/8" X 3" B.O. JOIST 109'-2 1/4" CEILING SYSTEM PER ARCH. -8" CMU WALL W/ #6 @ 16" O.C. GROUT ALL REINFORCED CELLS

T.O. WALL 112'-0" -8" BOND BEAM W/ (2) #5 CONTINUOUS CEILING JOIST AGAINST CMU WALL W/ SIMPSON TITEN HD 3/8" X 3" @ 16" O.C. STAGGER ANCHORS IN 2 ROWS AS SHOWN CEILING JOIST CEILING JOIST PER PLAN PER PLAN B.O. JOIST 109'-2 1/4" CEILING SYSTEM PER ARCH. 

B.O. JOIST 109'-2 1/4"

ROOF SYSTEM PER ARCH.

1 1/2" METAL ROOF DECK PER PLAN NOTES—

L3X3X1/4 X 0'-6" AT ROOF DECK ALIGNED WITH VERTICAL BRACE

L3X3X1/4 VERTICAL BRACE

CEILING SYSTEM PER ARCH.—

TOILET PARTITION PER ARCH.

AS LOCATED PER PLAN-

B.O. STEEL 109'-2 1/8"

DECK N.S./F.S.

L3X3X1/4 HORIZ. PARTITION SUPPORT

ALIGNED WITH PARTITION BELOW-

NOTE: ROOF FRAMING MEMBERS NOT SHOWN FOR CLARITY. VERTICAL AND DIAGONAL BRACES SHALL BE PLACED AS

-L3X3X1/4 X 0'-6" AT ROOF DECK

ALIGNED WITH VERTICAL BRACE

DECK

REQUIRED TO AVOID ROOF FRAMING MEMBERS.

-- L3X3X1/4 DIAGONAL BRACE AS LOCATED PER PLAN

VERT. TO HORIZ.

3/16 DIAG. TO VERT.

KDH CHECKED BY: ACO © GLMV Architecture, Inc. All work herein is the property of GLMV Architecture, Inc. and is not to be copied or used in any way without the express written consent of GLMV Architecture, Inc. **CEILING FRAMING** SECTIONS

18225R21006

PERMIT SET

11/01/2023

PROJECT NO:

STATUS:

DATE:

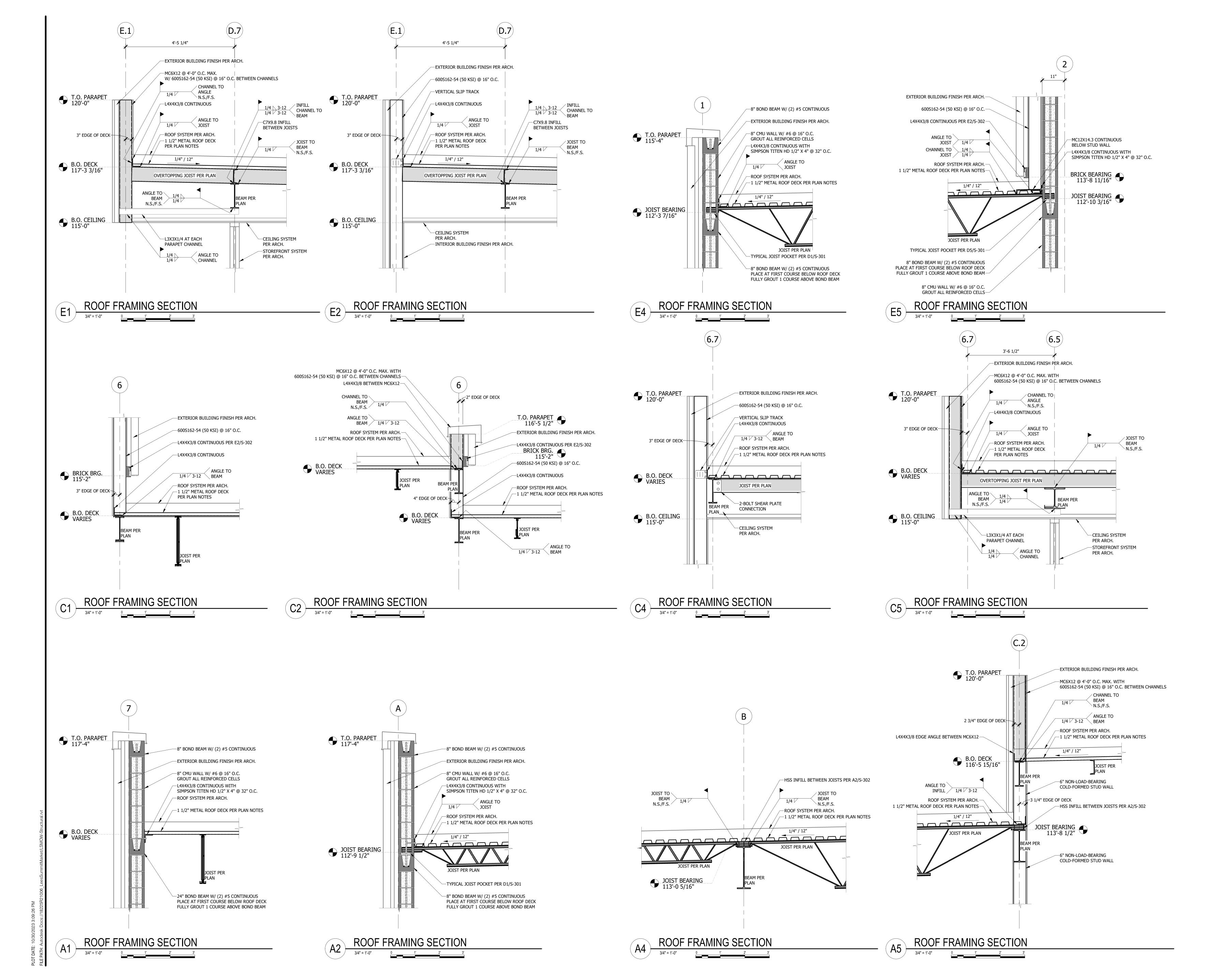
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**ROOF FRAMING SECTIONS** 

S-321

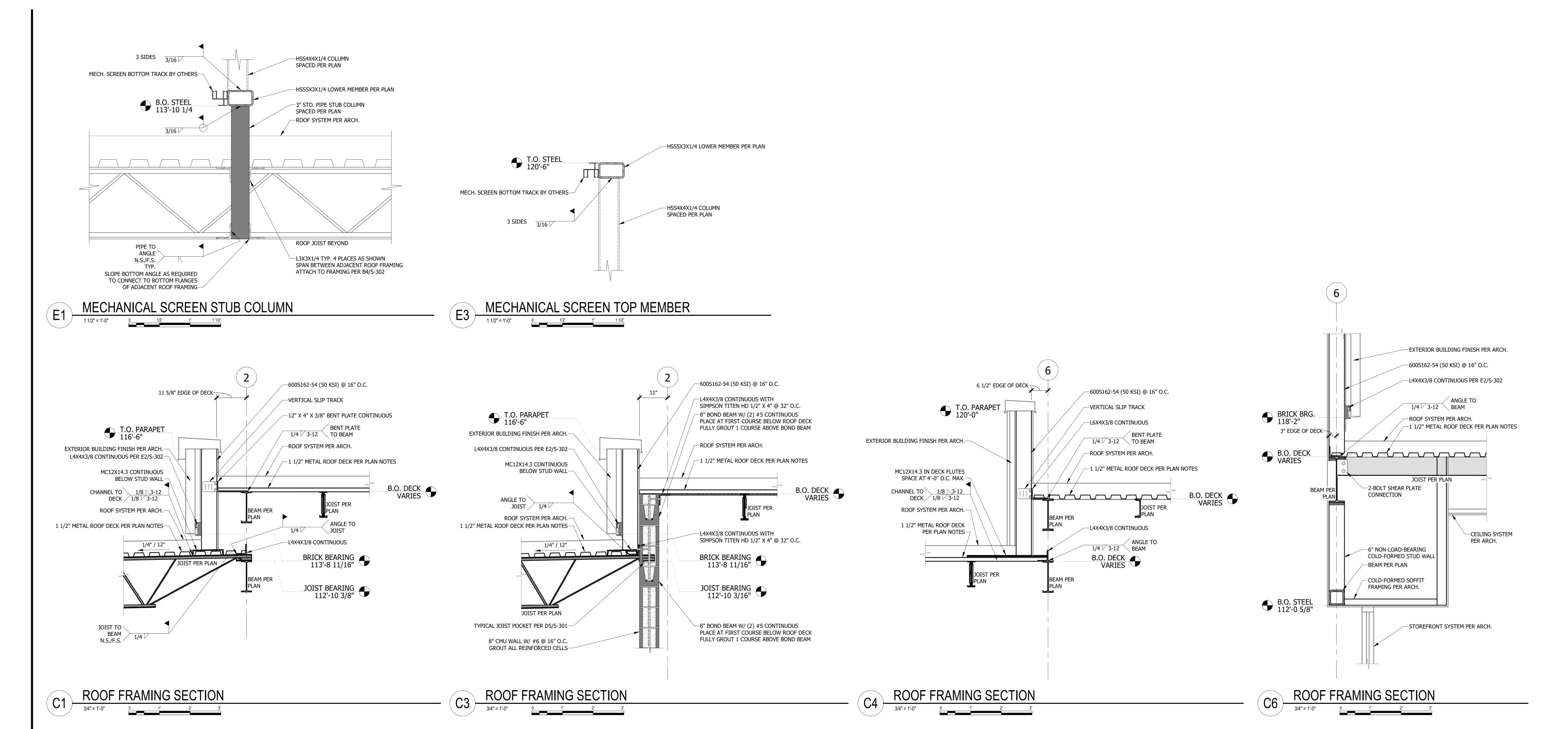


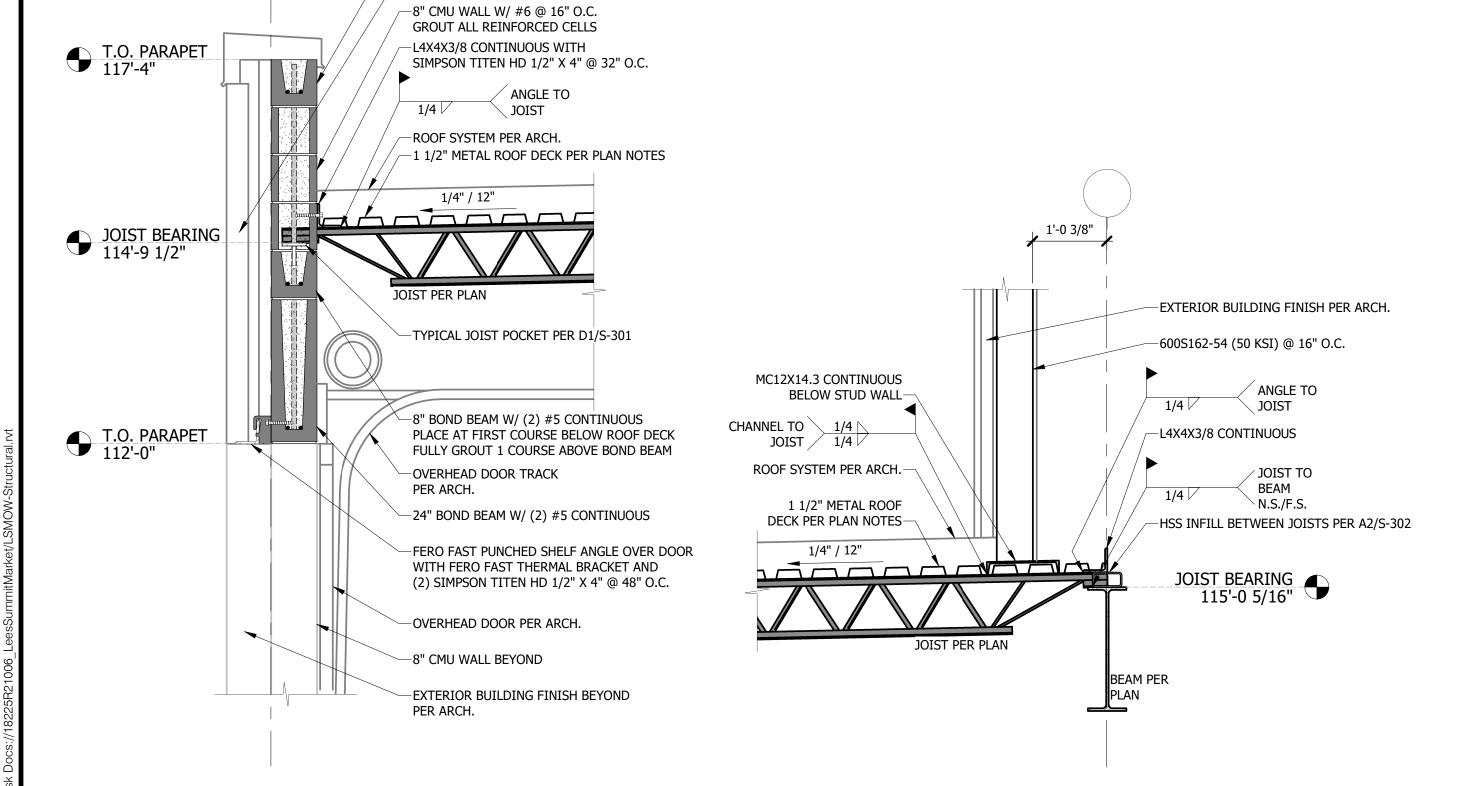


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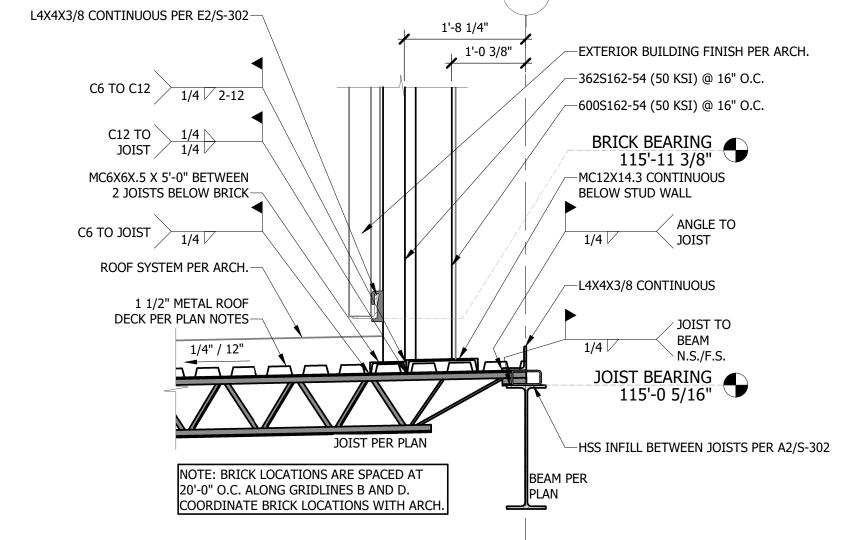
**ROOF FRAMING SECTIONS** 





-8" BOND BEAM W/ (2) #5 CONTINUOUS

-EXTERIOR BUILDING FINISH PER ARCH.



-8" BOND BEAM W/ (2) #5 CONTINUOUS

-EXTERIOR BUILDING FINISH PER ARCH.

SIMPSON TITEN HD 1/2" X 4" @ 32" O.C.

-1 1/2" METAL ROOF DECK PER PLAN NOTES

-8" BOND BEAM W/ (2) #5 CONTINUOUS PLACE AT FIRST COURSE BELOW ROOF DECK

FULLY GROUT 1 COURSE ABOVE BOND BEAM

-8" CMU WALL W/ #6 @ 16" O.C.

GROUT ALL REINFORCED CELLS

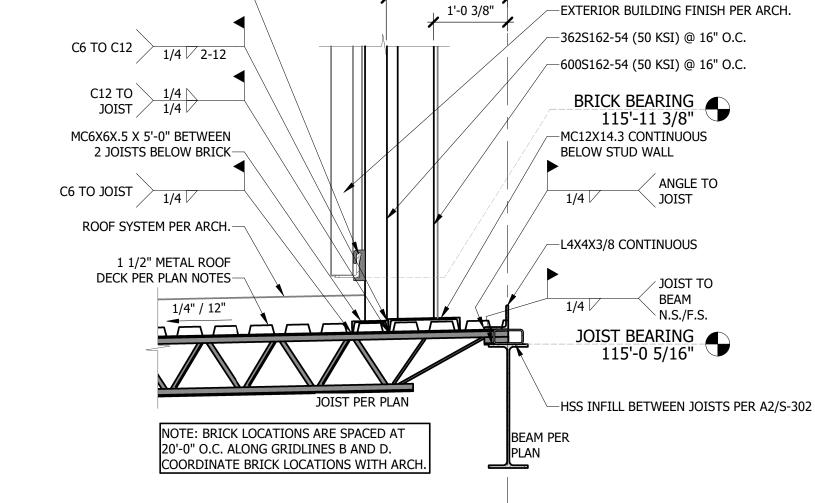
-L4X4X3/8 CONTINUOUS WITH

-ROOF SYSTEM PER ARCH.

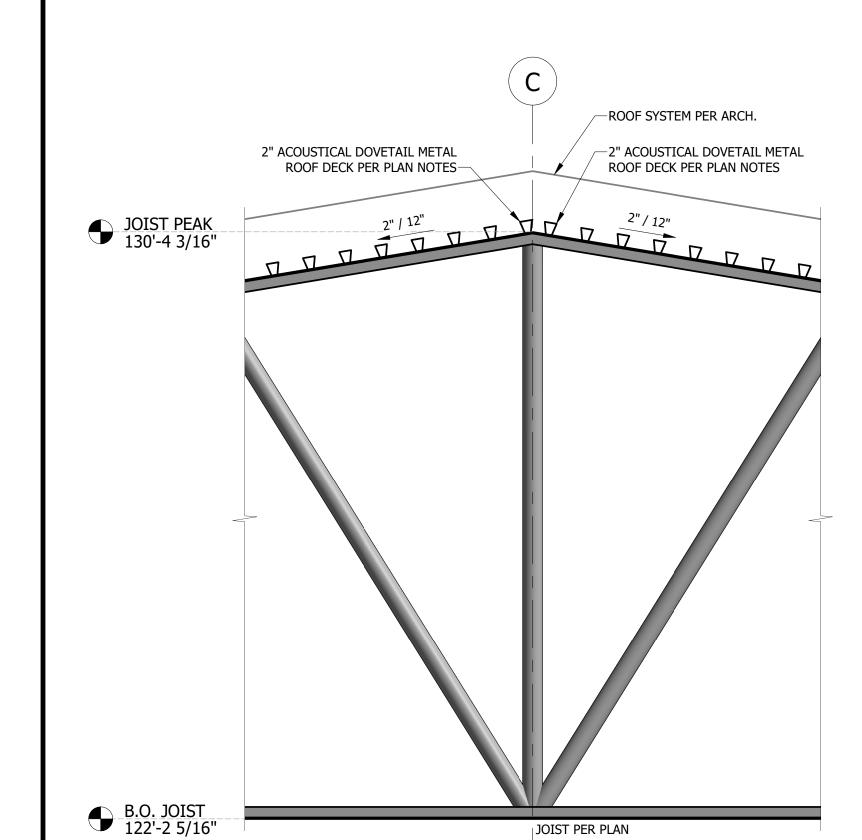
JOIST PER

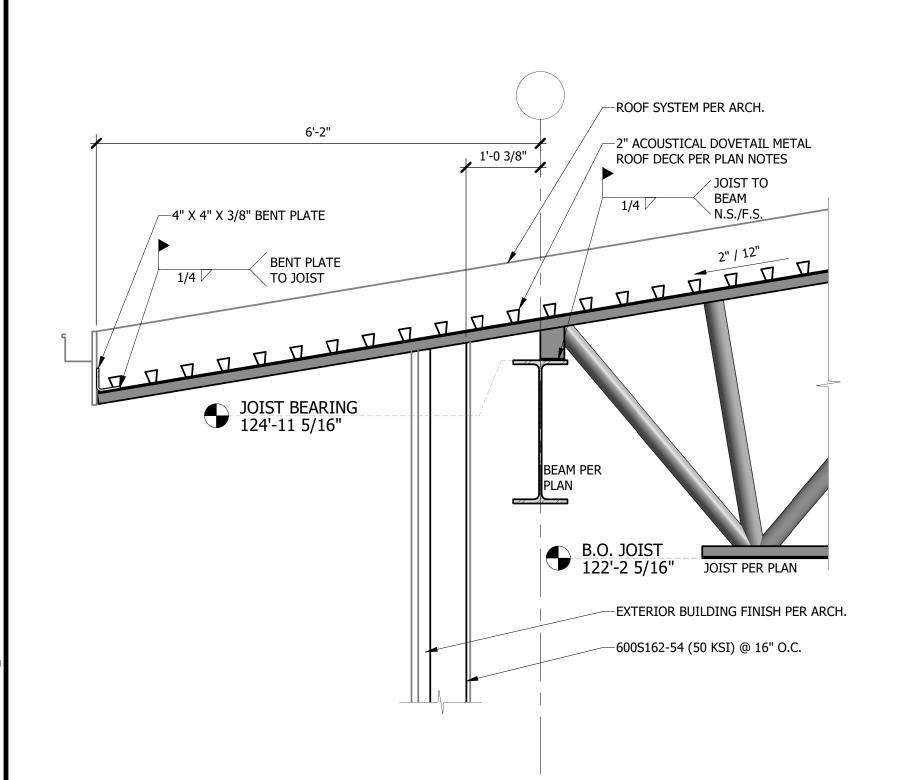
T.O. PARAPET 115'-4"

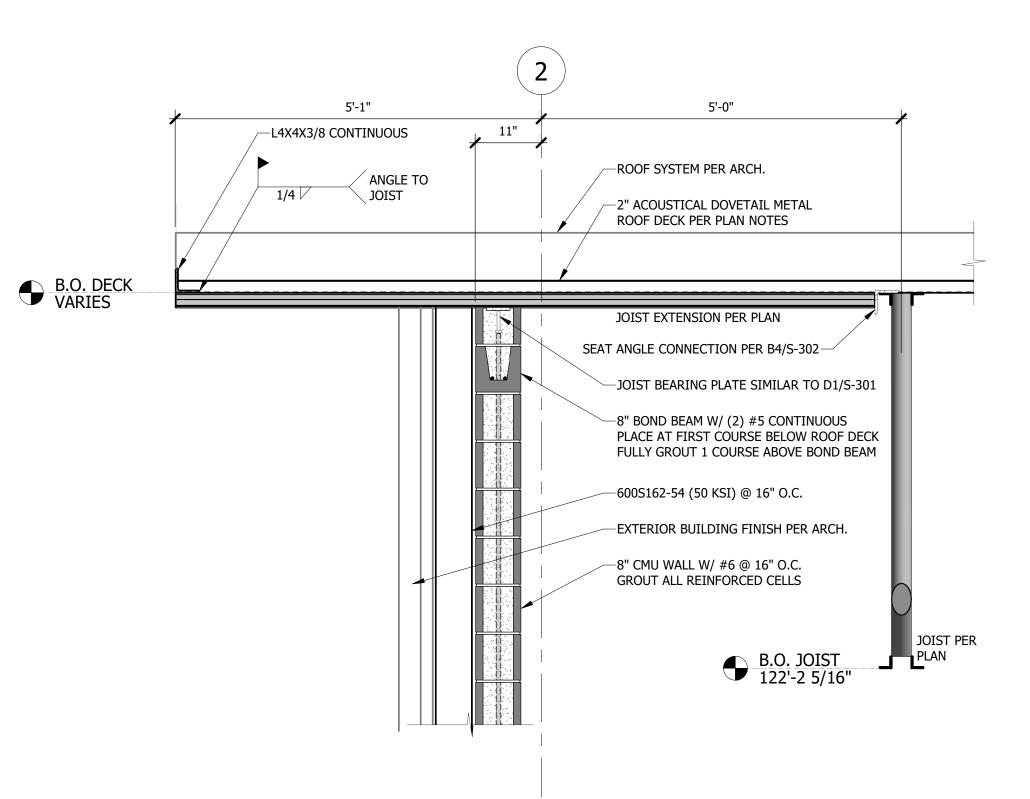
B.O. DECK VARIES

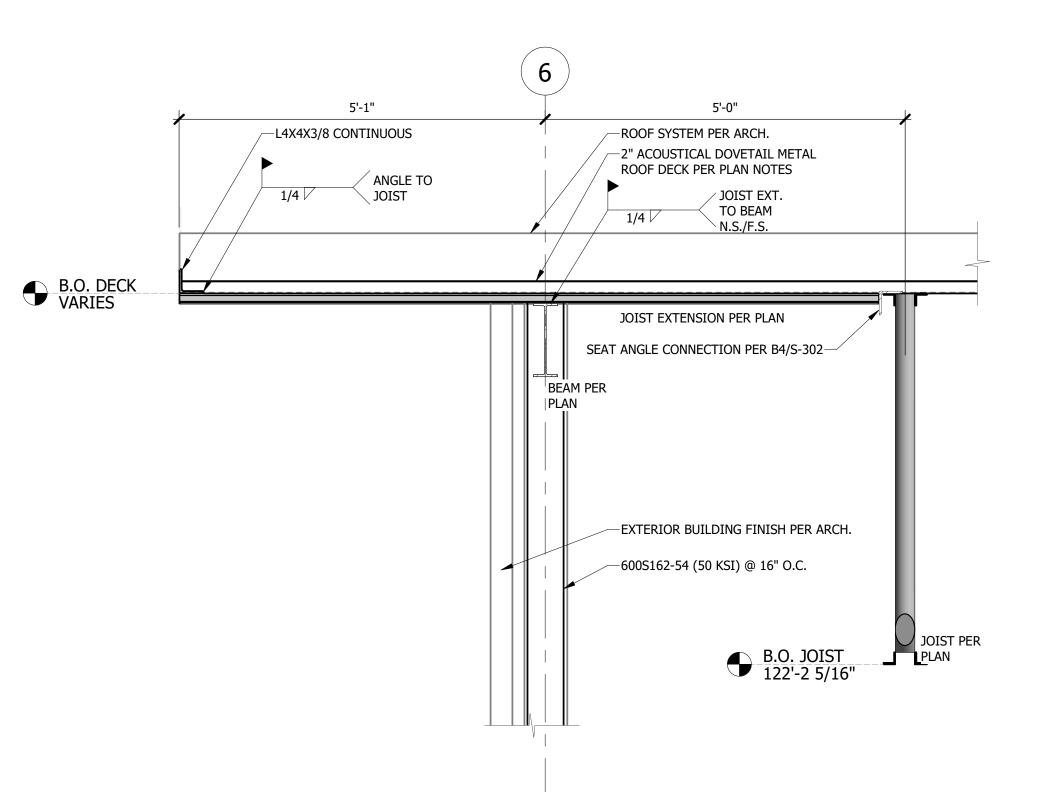












	DESCRIPTION	DATE
PRO	JECT NO:	18225R21006
STAT	US:	PERMIT SET
DATE	:	11/01/2023
DRAV	WN BY:	KDH
CHEC	CKED BY:	ACO
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F	OOF FRA	

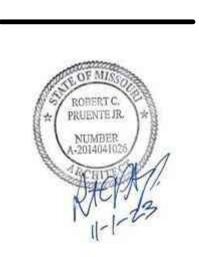
S-323

TERM	S AND ABBREVIATIONS
ABBREVIATIO	N TERMINOLOGY
ABV / ABV. AFF / A.F.F.	ABOVE ABOVE FINISH FLOOR
ACS PNL ACT / A.C.T.	ACCESS PANEL
ADJ / ADJ.	ACOUSTICAL CEILING PANEL ADJACENT
A/C / A.C. ALT / ALT.	AIR CONDITIONING ALTERNATE
ALUM / ALUM. AIA	ALUMINUM
ADA	AMERICAN INSTITUTE OF ARCHITECTS  AMERICANS WITH DISABILITIES ACT
ANOD / ANOD. APPROX / APPROX.	ANODIZED APPROXIMATE
ARCH / ARCH. AUTO	ARCHITECT (URAL) AUTOMATIC
AVG / AVG.	AVERAGE
В	Ta
BSMT / BSMT. BATH	BASEMENT BATHROOM
BRG / BRNG. BLW / BLW.	BEARING BELOW
BTWN / BTWN. BLK / BLK.	BETWEEN BLOCK
BLKG / BLKG. BD / BD.	BLOCKING BOARD
B.O.	BOTTOM OF
BLDG / BLDG. BIM / B.I.M.	BUILDING BUILDING INFORMATION MODEL
С	
CIP / C.I.P. CLK	CAST IN PLACE CAULK (ING)
CLG CL / C.L.	CEILING CENTER LINE
C/C CO / C.O.	CENTER TO CENTER CLEAN OUT
CLR	CLEAR (ANCE)
CLO / CLOS. COL / COL.	CLOSET  COLUMN
CONC / CONC. CMU / C.M.U.	CONCRETE CONCRETE MASONRY UNIT
CONST / CONST.	CONSTRUCTION CONSTRUCTION JOINT / CONTROL JOINT
CONT / CONT.	CONTINUE (CONTINUOUS)
CI / C.I. CG / C.G.	CONTINUOUS INSULATION  CORNER GUARD
CORR / CORR. CU FT	CORRIDOR CUBIC FEET
CU YD	CUBIC YARD
D DEMO / DEMO.	DEMOLTION
DTL / DTL.	DETAIL
DIA / DIA. DIM / DIM.	DIAMETER DIMENSION
DW / D.W. DBL / DBL.	DISH WASHER DOUBLE
DN DS / D.S.	DOWN DOWNSPOUT
DWG / DWG.	DRAWING (S)
DF/ D.F.	DRINKING FOUNTAIN
E EA / EA.	EACH
ELEC / ELEC. ELEV / ELEV.	ELECTRIC (AL) ELEVATION / ELEVATOR
EQ / EQ. EQUIP / EQUIP.	EQUAL EQUIPMENT
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EXIST / EXIST.  EXP / EXP.	EXISTING  EXPANSION / EXPOSED
EJ / E.J. EXT / EXT.	EXPANSION JOINT EXTERIOR
EIFS / E.I.F.S.	EXTERIOR INSULATION AND FINISH SYSTEM
FAB / FAB.	FABRICATE / FABRICATION
FOW / F.O.W.	FACE TO FACE
FRP / F.R.P.	FIBERGLASS REINFORCED PANEL
FV / F.V. FIN / FIN.	FIELD VERIFY FINISH
FF / F.F. FDC / F.D.C.	FINISH FLOOR FIRE DEPARTMENT CONNECTION
FE / F.E. FEC / F.E.C.	FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET
FH / F.H.	FIRE HYDRANT
FRT / F.R.T. FCO / F.C.O.	FIRE RETARDANT TREATED FLOOR CLEAN OUT
FD / F.D. FT / FT. / (')	FLOOR DRAIN FOOT
FTG FDTN	FOOTING FOUNDATION
FR / F.R.	FRAME (D) (ING) / FIRE RATED
F.O. FURN / FURN.	FRONT OF / FACE OF FURNITURE
G	
GA / GA. GALV / GALV.	GAGE / GAUGE GALVANIZED
GC / G.C. GEN / GEN.	GENERAL CONTRACTOR GENERATOR
GLN / GLN. GLZ GLULAM	GLAZING GLUE LAMINATED LUMBER
GB / G.B.	GRAB BAR
GSF / G.S.F GYP / GYP.	GROSS SQUARE FEET GYPSUM
GWB / G.W.B. / GYP BD.	. GYPSUM WALL BOARD
Н	
HW / H.W.	HARDWARE HARDWOOD
HDWD HDR	HARDWOOD HEADER
HVAC / H.V.A.C. HT	HEATING, VENTILATIN AND AIR CONDITIONING HEIGHT
HC / H.C. HM / H.M.	HOLLOW CORE / HANDICAP HOLLOW METAL
HORIZ / HORIZ.	HORIZONTAL
HR HYD / HYD.	HYDRANT
<u> </u>	
ID / I.D. IN / IN. / (")	IDENTIFICATION / INSIDE DIAMTER (DIMENSION) INCH
INSUL / INSUL. INT / INT.	INSULATION INTERIOR
IBC / I.B.C.	INTERNATIONAL BUILDING CODE
J	
JAN / JAN. JT / J.T.	JANITORS CLOSET JOINT
JST / JST.	JOIST
L	LAMINIATE (D)
LAM / LAM. LVL / L.V.L.	LAMINATE (D)  LAMINATED VENEER LUMBER
LAV / LAV. LH / L.H.	LAVATORY LEFT-HAND
LHR / L.H.R.	LEFT-HAND REVERSE
LF / L.F.	LINEAR FEET (FOOT)

M MFD / MFD. MFR / MFR.	MANUFACTURED MANUFACTURER	FLOOR PLAN REFERENCE INDICATORS  NAME
MAS / MAS. MATL / MATL.	MASONRY MATERIAL	NO ROOM TAG 101 DOOR TAG ID REVISION TAG  150 SF
MAX / MAX. MECH / MECH. MDF / M.D.F.	MAXIMUM  MECHANICAL  MEDIUM-DENSITY FIBERBOARD	ID WINDOW TAG ID PARTITION TAG (1) KEYNOTE TA
MEMB / MEMB. MTL / MTL.	MEMBRANE METAL	SPOT ELEVATION & CENTER LINE ID EQUIPMENT
MIN / MIN. MIR / MIR. MISC / MISC.	MINIMUM MIRROR MISCELLANEOUS	TAG
MOD / MOD. MR / M.R.	MODULAR / MODIFY  MOISTURE RESISTANT	PLAN NORTH PROJECT NORTH LINE  COLUMN LINE GRID INDICATOR  ID
MTD / MTD.	MOUNTED	TRUE NORTH LINE  GRID IDENTIFICATION
NFPA / N.F.P.A. NRC / N.R.C.	NATIONAL FIRE PREVENTION ASSOCIATION NOISE REDUCTION COEFFICIENT	
NOM / NOM. NA / N/A / N.A.	NOMINAL NOT APPLICABLE	DRAWING BLOCK TITLE  / VIEW NAME
NIC / N.I.C. NTS / N.T.S. NO / NO.	NOT IN CONTRACT  NOT TO SCALE  NUMBER	DRAWING BLOCK TITLE
0	LOCOUPLUT (0)	1/8" = 1'-0"
OCC / OCC.  OSFM / O.S.F.M.  OC / O.C.	OCCUPANT (S)  OFFICE OF STATE MARSHALL  ON CENTER (S)	VIEW SCALE  GRAPHIC SCALE
OPNG / OPNG. OPP / OPP.	OPENING OPPOSITE	DETAIL/CALLOUT IDENTIFICATION LEVEL IDENTIFICATION
OD / O.D. ORD / O.R.D. OH / OVHD	OUTSIDE DIAMETER (DIMENSION)  OVERFLOW ROOF DRAIN  OVERHEAD	DETAIL NUMBER  LEVEL NAME  NO  SIM
<u>эн 7 ОУНЫ</u> Р	OVERNEAD	SHT SHEET NUMBER LEVEL NAME ELEVATION
PNT / PNT. PR / PR.	PAINT PAIR / PIPE RAIL	
PTN / PTN. PVMT / PVMT. PERF / PERF.	PARTITION PAVEMENT PERFORATED / PERFORM	BUILDING SECTION IDENTIFICATION  SECTION NUMBER  EXTERIOR ELEVATION IDENTIFICATION  Ref,— ELEVATION NUMBER
PERIM / PERIM. PH / P.H.	PERIMETER PHASE	NO SIM E LEV_NO E
PLBG. / PLUMB. PLYWD / PLYWD. POLYISO / POLYISO.	PLUMBING PLYWOOD POLYISOCYANURATE	SHT SHEET NUMBER  SHEET NUMBER  Ref
PVC / P.V.C. LBS / lb / #	POLYVINYL CHLORIDE POUNDS	WALL SECTION IDENTIFICATION INTERIOR ELEVATION IDENTIFICATION
PCF / P.C.F. PLF / P.L.F. PSF / P.S.F.	POUNDS PER CUBIC FOOT  POUNDS PER LINEAR FOOT  POUNDS PER SQUARE FOOT	SECTION NUMBER  ELRef — ELEVATION NUMBER
PSI / P.S.I. PREFIN / PREFIN.	POUNDS PER SQUARE INCH PREFINISHED	SHT, SIM SHEET EL SHEET EL
PT / P.T. PROJ / PROJ.	PRESSURE-TREATED PROJECT / PROJECTOR	SHEET NUMBER  ELRef  SHEET NUMBER
PL / P.L. Q	PROPERTY LINE	
QTY / QTY.	QUANTITY	
REF / REF. RCP / R.C.P.	REFERENCE / REFRIGERATOR REFLECTED CEILING PLAN	MATERIAL SYMBOLS LEGEND
REINF / REINF. REQ / REQ. / REQ'D	REINFORCE (MENT) REQUIRE (D)	CONCRETE,
REQMT (S) RESIST / RESIST.	REQUIREMENT (S)  RESISTANT  REVIEW (S) / REV	CONCRETE, CAST-IN-PLACE  CMU BOND BEAM LINTEL
REV / REV. RH / R.H. RHR / R.H.R.	REVISE (D) / REVISION / REVERSE RIGHT HAND / ROOF HATCH RIGHT-HAND REVERSE	BRICK/CUT STONE COMMON/FACE
ROW / R.O.W. RD / R.D.	RIGHT-OF-WAY ROOF DRAIN / ROAD	CONCRETE CMU, END
RTU / R.T.U. RM / RM. RO / R.O.	ROOF TOP UNIT  ROOM  ROUGH OPENING	MASONRY UNIT
S SAN / SAN.	SANITARY	ALUMINUM WOOD BLOCKING OR SHIM
SCHED / SCHED. SECT / SECT.	SCHEDULE SECTION	STEEL AND WOOD FRAMING, CONTINUOUS
SHT / SHT. SIM / SIM.	SHEET SIMILAR	OTHER METALS INSULATION,
SC / S.C. STC / S.T.C. SPEC / SPEC.	SOLID CORE  SOUND TRANSMISSION CLASS  SPECIFICATION	LOOSE FILL OR BLANKET
SB / S.B. SQ / SQ.	SPLASH BLOCK SQUARE	INSULATION, RIGID BOARD
SF / S.F. SS / S.S. ST / ST.	SQUARE FOOT / SUPPLY FAN STAINLESS STEEL STAIRS	PLASTER,
STD / STD. STL / STL.	STANDARD STEEL	GYPSUM, SAND, MORTAR OR PORTLAND CEMENT
STOR / STOR. SD / S.D. STRUC. / STRUCT.	STORAGE STORM DRAIN / SMOKE DETECTOR STRUCTURAL / STRUCTURE	GLASS, ELEVATION
SUSP / SUSP.	SUSPEND (ED)	EARTH, CRUSHED ROCK
T TV / TV. TEMP / TEMP.	TELEVISION TEMPORARY / TEMPERATURE	GRAVEL EARTHWORK,
TERM / TERM. TPO / T.P.O.	TEMPORARY / TEMPERATURE TERMINATE THERMOPLASTIC POLYOLEFIN	COMPACTED
THK / THK. TLT / TLT.	THICK TOILET TONGLIE AND GROOVE	PLYWOOD
T&G T.O. TOC / T.O.C.	TONGUE AND GROOVE  TOP OF  TOP OF CURB (CONCRETE)	
TOS / T.O.S. TOW / T.O.W.	TOP OF STEEL TOP OF WALL	
TJI / T.J.I. TYP / TYP.	TRUSS JOIST / I-JOIST TYPICAL	
J JGND / UGND.	UNDERGROUND	GENERAL NOTES
UL / U.L. UNO / U.N.O.	UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE	TERMS AND ABBREVIATIONS SHOWN ON THIS SHEET FOLLOW INDUSTRY STANDARDS. TERMS AN ABBREVIATIONS MAY DIFFER ON DRAWING SHEETS AND SHALL FOLLOW THE ASSOCIATED SHEET LEGENDS U.N.O.
/ /TR / V.T.R.	VENT THROUGH ROOF	2. MATERIAL SYMBOLS LEGEND SHOWN ON THIS SHEET FOLLOWS INDUSTRY STANDARDS. MATERIAL SYMBOLS MAY DIFFER ON DRAWING SHEETS AND SHALL FOLLOW THE ASSOCIATED SHEET
VIF / V.I.F. VERT / VERT.	VERIFY IN FIELD VERTICAL	SYMBOLS MAY DIFFER ON DRAWING SHEETS AND SHALL FOLLOW THE ASSOCIATED SHEET LEGENDS U.N.O.
VEST / VEST.	VESTIBULE	
WC / W.C. WH / W.H.	WATER CLOSET / WALL COVERING / WHEELCHAIR WATER HEATER / WEEP HOLE / WALL HUNG	
VT / W.T. VWF / W.W.F.	WEIGHT / WINDOW TREATMENT WELDED WIRE FABRIC	
VWM / W.W.M. VNDW / WN V/	WELDED WIRE MESH WINDOW WITH	
V/	*******	•

FLOOR PLAN REFERENCE	E INDICATORS			
NAME NO 150 SF	TAG 101	DOOR TAG	ID	REVISION TAG
	W TAG ID	PARTITION TAG	1	KEYNOTE TAG
100'-0" SPOT E	ELEVATION &	CENTER LINE		EQUIPMENT TA
NORTH INDICATOR PLAN NORTH			GRID INDICATO	<u>DR</u>
	ROJECT NORTH LINE RUE NORTH LINE		— GRID IDEN	TIFICATION
DRAWING BLOCK TITLE  VIEW NU			<i>,</i>	EW NAME
C4 DRA	AWING BL	OCK IIIL	16'	
	VIEW SCALE		GRA	PHIC SCALE
DETAIL/CALLOUT IDENTI	FICATION . NUMBER	<u>LEVEL IDENTII</u>		EL NAME
NO SHT SIM			LEVEL NAME ELEVATION	<b>&gt;</b>
SHEET	NUMBER		EI	LEVATION
BUILDING SECTION IDEN	TIFICATION ON NUMBER		EVATION IDENTI	TION NUMBER
NO SIM	NO	SIM & LEV_M	A Section 1	
SHT	SHT		X	
<b>X</b> /	NUMBER	R	X	NUMBER
WALL SECTION IDENTIFIC	NUMBER		SHEET SHEET	
WALL SECTION IDENTIFICATION SECTION SIMULATION SHIP SHIP SHIP SHIP SHIP SHIP SHIP SHIP	NUMBER  CATION	INTERIOR ELE	VATION IDENTIFE ELEVA	FICATION
WALL SECTION IDENTIFICATION SECTION SIMULATION SHIP SHIP SHIP SHIP SHIP SHIP SHIP SHIP	CATION  DN NUMBER  NUMBER	INTERIOR ELE  ELR  SHEE	VATION IDENTIFE ELEVA	FICATION TION NUMBER
WALL SECTION IDENTIFICATION SECTION SECTION SHEET	CATION  DN NUMBER  NUMBER	INTERIOR ELE  ELR  SHEE	SHEET  VATION IDENTIF  Ref ELEVA  T EL  SHEET  CMU	FICATION TION NUMBER NUMBER
WALL SECTION IDENTIFICATION SECTION SECTION SHEET	CATION ON NUMBER  NUMBER  SYMBOL CONCRETE,	INTERIOR ELE  ELR  SHEE	SHEET  VATION IDENTIF  Ref ELEVA  T EL  SHEET  CMU BOND	FICATION TION NUMBER NUMBER
WALL SECTION IDENTIFICATION SECTION SECTION SHEET	CATION  ON NUMBER  NUMBER  SYMBOL  CONCRETE, CAST-IN-PLACE  BRICK/CUT STONE	INTERIOR ELE  ELR  SHEE	SHEET  VATION IDENTIF  Ref ELEVA  T EL  SHEET  CMU BOND	FICATION TION NUMBER  NUMBER  D BEAM EL
WALL SECTION IDENTIFICATION SECTION SIM SHEET	CATION ON NUMBER  NUMBER  NUMBER  CONCRETE, CAST-IN-PLACE  BRICK/CUT STONE COMMON/FACE  CONCRETE	INTERIOR ELE  ELR  SHEE	SHEET  VATION IDENTIF  Ref ELEVA  TO SHEET  CMU BOND LINTE	FICATION TION NUMBER  NUMBER  D BEAM EL  END  D BLOCKING
WALL SECTION IDENTIFICATION SECTION SIM SHEET	CATION ON NUMBER  NUMBER  SYMBOL  CONCRETE, CAST-IN-PLACE  BRICK/CUT STONE COMMON/FACE  CONCRETE MASONRY UNIT	INTERIOR ELE  ELR  SHEE	SHEET  VATION IDENTIFE  Ref ELEVA  T EL  SHEET  CMU BOND LINTE  CMU,  WOOD OR SI WOOD	FICATION TION NUMBER  NUMBER  D BEAM EL  END  D BLOCKING
WALL SECTION IDENTIFICATION SECTION SIM SHEET	CATION ON NUMBER  T NUMBER  CONCRETE, CAST-IN-PLACE  BRICK/CUT STONE COMMON/FACE  CONCRETE MASONRY UNIT  ALUMINUM  STEEL AND OTHER METALS INSULATION, LOOSE FILL OR	INTERIOR ELE  ELR  SHEE	SHEET  VATION IDENTIFE  Ref ELEVA  T EL  SHEET  CMU BOND LINTE  CMU,  WOOD OR SI WOOD	FICATION TION NUMBER  NUMBER  D BEAM EL  END  D BLOCKING HIM D FRAMING,
WALL SECTION IDENTIFICATION SECTION SECTION SHEET	CATION ON NUMBER  T NUMBER  CONCRETE, CAST-IN-PLACE  BRICK/CUT STONE COMMON/FACE  CONCRETE MASONRY UNIT  ALUMINUM  STEEL AND OTHER METALS INSULATION,	INTERIOR ELE  ELR  SHEE	SHEET  VATION IDENTIFE  Ref ELEVA  T EL  SHEET  CMU BOND LINTE  CMU,  WOOD OR SI WOOD	FICATION TION NUMBER  NUMBER  D BEAM EL  END  D BLOCKING HIM D FRAMING,
WALL SECTION IDENTIFICATION SECTION SIM SHEET	CATION ON NUMBER  NUMBER  NUMBER  NUMBER  NUMBER  CONCRETE, CAST-IN-PLACE  BRICK/CUT STONE COMMON/FACE  CONCRETE MASONRY UNIT  ALUMINUM  STEEL AND OTHER METALS  INSULATION, LOOSE FILL OR BLANKET  INSULATION, RIGID BOARD  PLASTER,	S LEGEN	SHEET  VATION IDENTIFE  Ref ELEVA  T EL  SHEET  CMU BOND LINTE  CMU,  WOOD OR SI WOOD	FICATION TION NUMBER  NUMBER  D BEAM EL  END  D BLOCKING HIM D FRAMING,
SHEET  WALL SECTION IDENTIFIE  SECTION  SHEET  SHEET	CATION ON NUMBER  NUMBER  NUMBER  NUMBER  CONCRETE, CAST-IN-PLACE  BRICK/CUT STONE COMMON/FACE  CONCRETE MASONRY UNIT  ALUMINUM  STEEL AND OTHER METALS INSULATION, LOOSE FILL OR BLANKET  INSULATION, RIGID BOARD  PLASTER, GYPSUM, SAND, MC OR PORTLAND CEM	INTERIOR ELE  SHEET  SH	SHEET  VATION IDENTIFE  Ref ELEVA  T EL  SHEET  CMU BOND LINTE  CMU,  WOOD OR SI WOOD	FICATION TION NUMBER  NUMBER  D BEAM EL  END  D BLOCKING HIM D FRAMING,
SHEET  WALL SECTION IDENTIFIE  SECTION  SHEET  SHEET	CATION ON NUMBER  CATION ON NUMBER  CONCRETE, CAST-IN-PLACE  BRICK/CUT STONE COMMON/FACE  CONCRETE MASONRY UNIT  ALUMINUM  STEEL AND OTHER METALS  INSULATION, LOOSE FILL OR BLANKET  INSULATION, RIGID BOARD  PLASTER, GYPSUM, SAND, MC OR PORTLAND CEM  GLASS, ELEVATION	INTERIOR ELE  SHEET  SH	SHEET  VATION IDENTIFE  Ref ELEVA  T EL  SHEET  CMU BOND LINTE  CMU,  WOOD OR SI WOOD	FICATION TION NUMBER  NUMBER  D BEAM EL  END  D BLOCKING HIM D FRAMING,
WALL SECTION IDENTIFICATION SECTION SIM SHEET	CATION ON NUMBER  NUMBER  NUMBER  NUMBER  CONCRETE, CAST-IN-PLACE  BRICK/CUT STONE COMMON/FACE  CONCRETE MASONRY UNIT  ALUMINUM  STEEL AND OTHER METALS INSULATION, LOOSE FILL OR BLANKET  INSULATION, RIGID BOARD  PLASTER, GYPSUM, SAND, MC OR PORTLAND CEM	INTERIOR ELE  SHEET  SH	SHEET  VATION IDENTIFE  Ref ELEVA  T EL  SHEET  CMU BOND LINTE  CMU,  WOOD OR SI WOOD	FICATION TION NUMBER  NUMBER  D BEAM EL  END  D BLOCKING HIM D FRAMING,
MATERIAL  MATERIAL  MATERIAL	CATION ON NUMBER  CATION ON NUMBER  CONCRETE, CAST-IN-PLACE  BRICK/CUT STONE COMMON/FACE  CONCRETE MASONRY UNIT  ALUMINUM  STEEL AND OTHER METALS  INSULATION, LOOSE FILL OR BLANKET  INSULATION, RIGID BOARD  PLASTER, GYPSUM, SAND, MC OR PORTLAND CEM  GLASS, ELEVATION  EARTH, CRUSHED ROCK	INTERIOR ELE  SHEET  SH	SHEET  VATION IDENTIFE  Ref ELEVA  T EL  SHEET  CMU BOND LINTE  CMU,  WOOD OR SI WOOD	FICATION TION NUMBER  NUMBER  D BEAM EL  END  D BLOCKING HIM D FRAMING,







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LEGENDS, SYMBOLS, & ABREVIATIONS



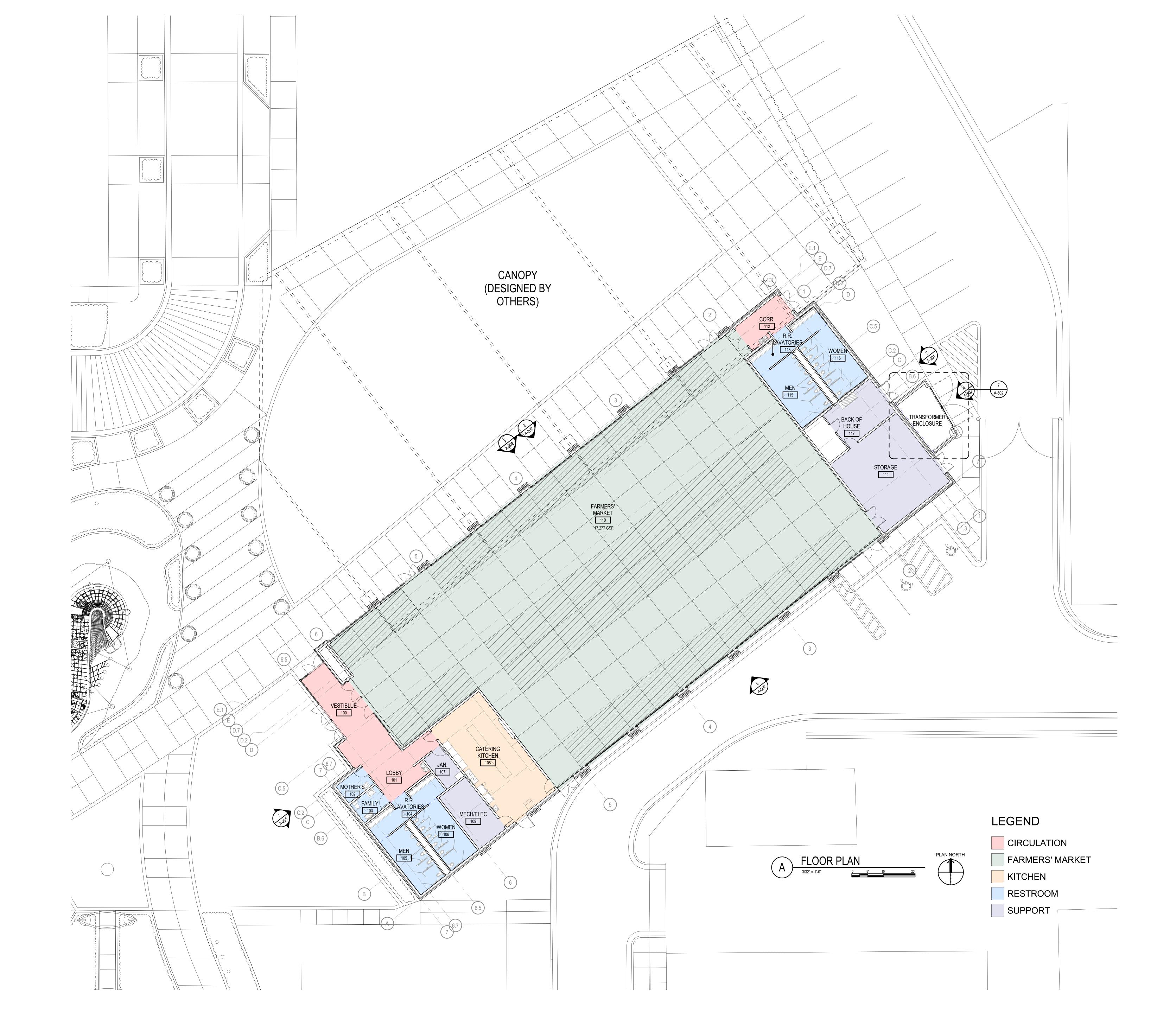




# LEE'S SUMMIT MO

$\triangle$	DESCRIPTION	DATE
PROJECT	NO:	18225R21006
STATUS:		PERMIT SET
DATE:		11/01/2023
DRAWN B	Y:	Author
CHECKED	BY:	Checker
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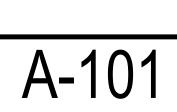
CONTEXTUAL FLOOR PLAN

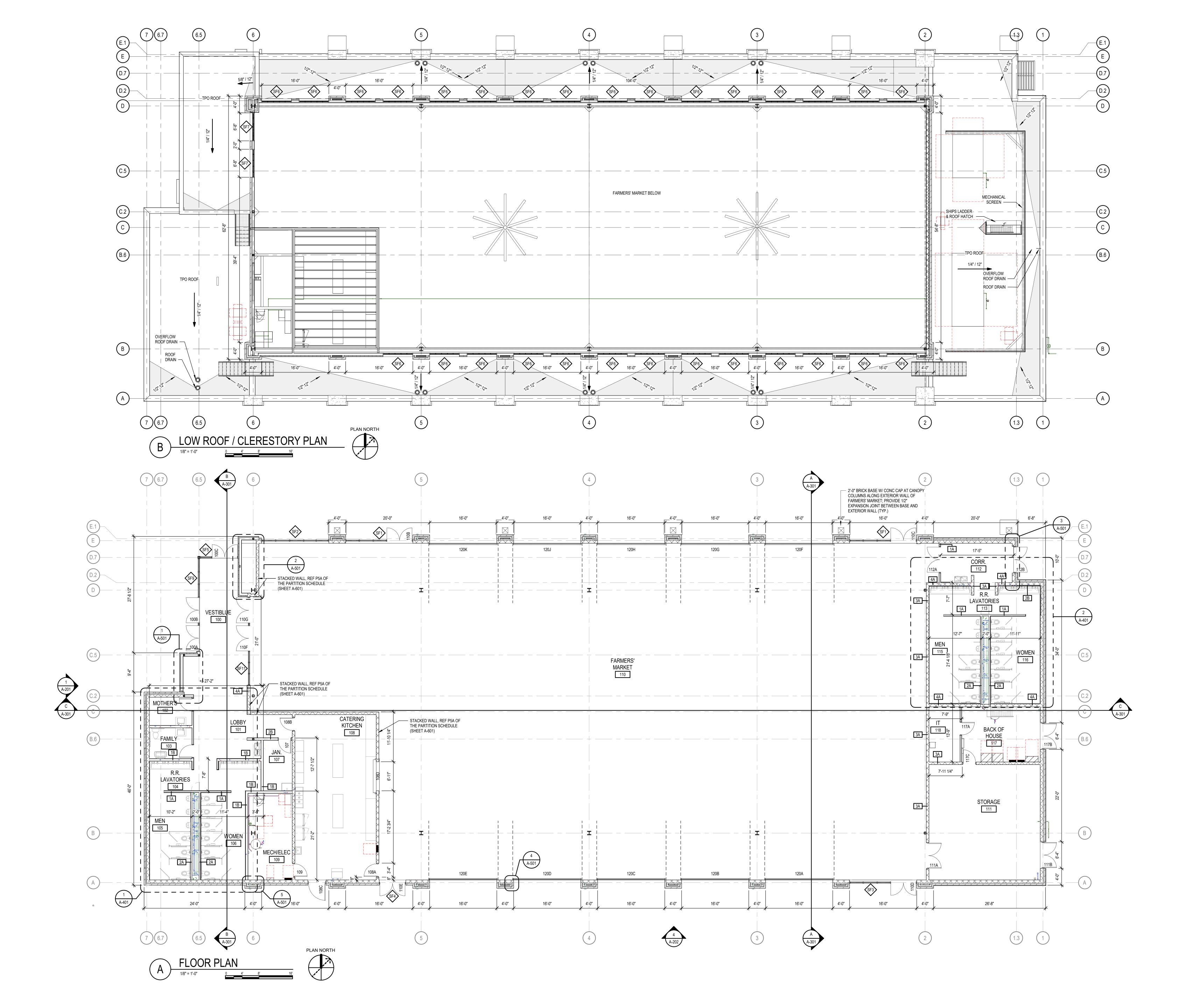




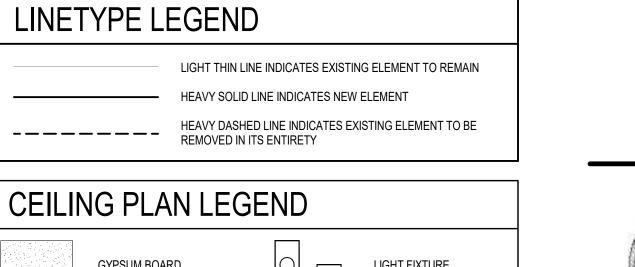


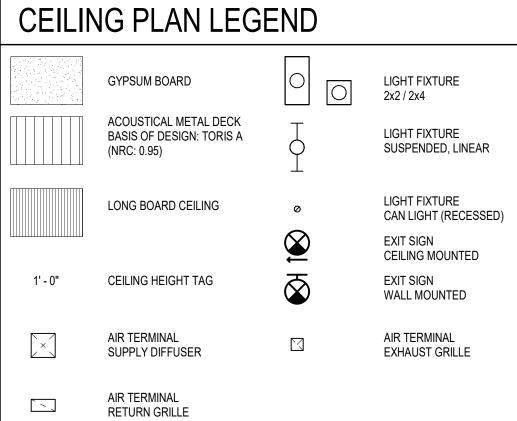








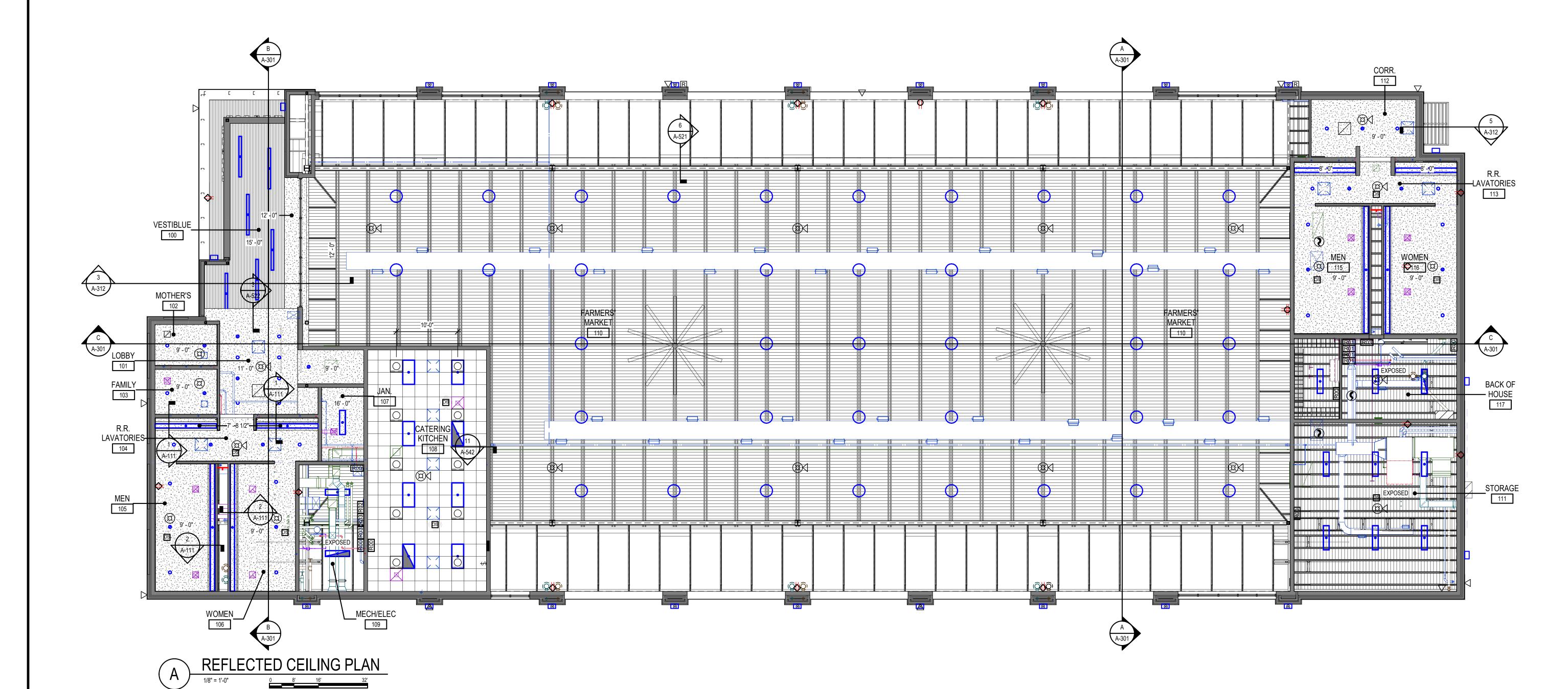


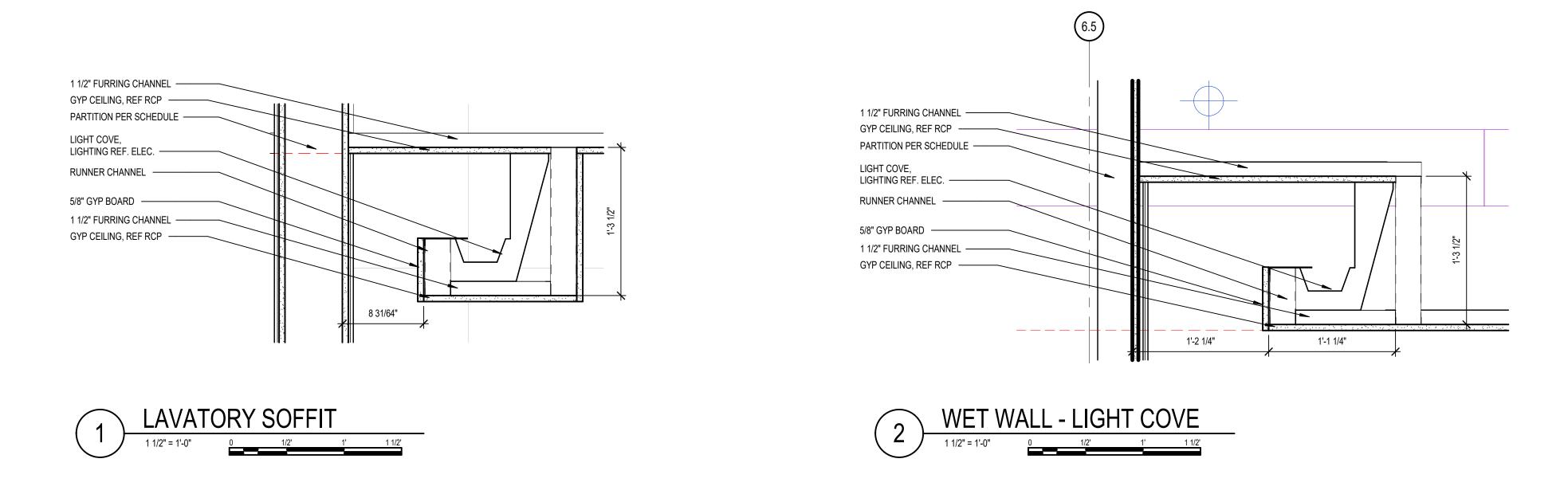


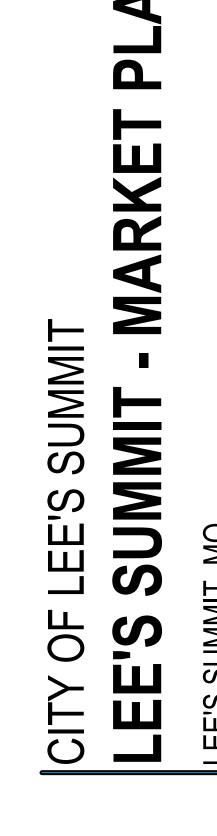
## **GENERAL NOTES**

A DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE. WHERE PARTITION TYPES CHANGE, FACE OF GYPSUM BOARD MUST ALIGN WITH ADJACENT FACE OF GYPSUM BOARD. B CENTER ALL CEILING-MOUNTED EQUIPMENT/DEVICES AT CENTER OF CEILING TILES UNLESS NOTED OTHERWISE. COORDINATE WITH MECHANICAL/ELECTRICAL DRAWINGS. C PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS AND ENDWALL CONDITIONS. REF. INTERIOR DRAWINGS FOR MORE INFORMATION.

D ALL DIMENSIONS FROM EXISTING WALLS ARE FROM FINISHED FACE OF WALL. E ALL DIMENSIONS ON REFLECTED CEILINGS PLANS ARE TO FINISHED FACES U.N.O.

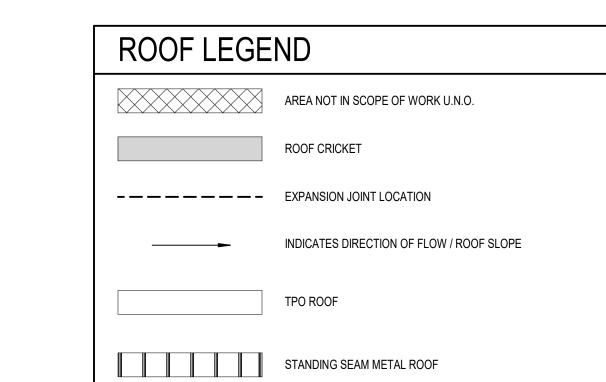


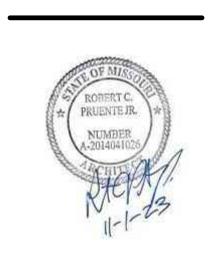




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OVERFLOW ROOF DRAIN ——





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OVERFLOW ROOF DRAIN —

ROOF PLAN

ELEVATION KEYNOTES

4 PRE MANUFACUTURED CONTIUOUS CLEAT COPING CAP

FIBER CEMENT PANEL :BASIS OF DESIGN NICHIHA;

8 BACK LIT RAINSCREEN: BASIS OF DESIGN MOZ DESIGNS BACKLIT METAL PANEL (CUSTOM)

EXTRUDED ALUMINUM - LIGHT CHERRY WOOD GRAIN

SIGNAGE- INTERNALLY ILLUMINATED CHANNEL LETTERS

CHANGEABLE ART INSTALLATION - BRICK ACCENT

PREFINISHED MTL GUTTER & DOWNSPOUTS

STOREFRONT SYSTEM - DARK BRONZE

1 BRICK - MODULAR BERWICK BLEND`

STOREFRONT- DARK BRONZE

PAINTED STEEL - DARK BRONZE

MECHANICAL SCREEN 14 4" CAST STONE PROFILE

PREFAB STAIR, REF SPECS

CAST STONE COLUMN CAP PREFABRICATED CANOPY

19 EXTERIOR WALL SCONCE, REF ELEC.

OVERHEAD GARAGE DOOR

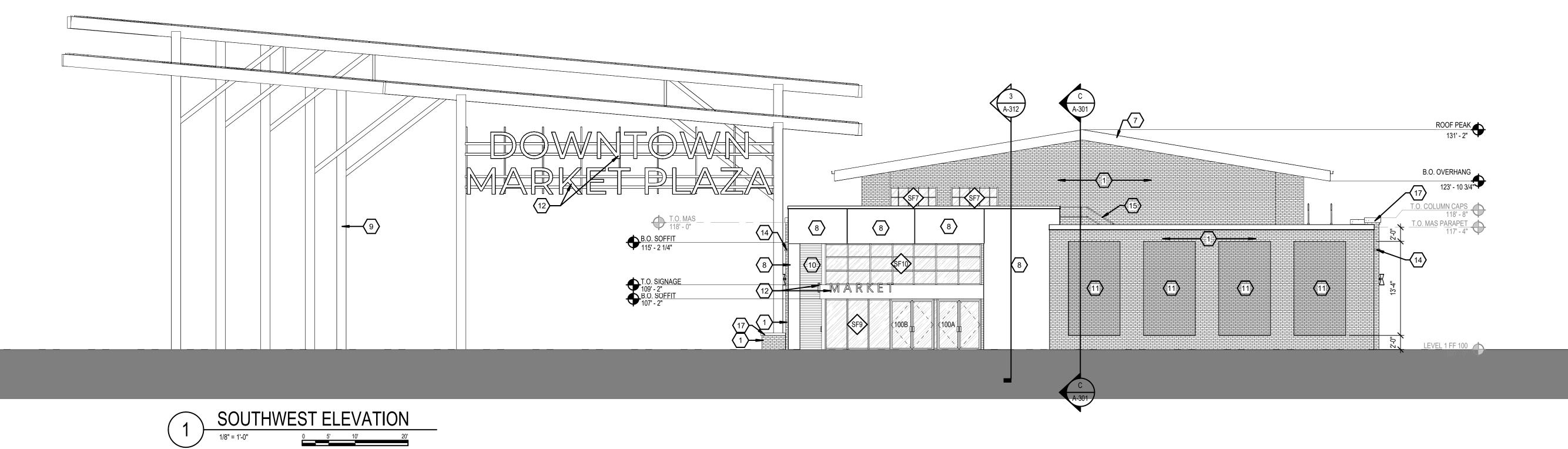
RIBBED; INDIGO 7 STANDING SEAM METAL ROOF

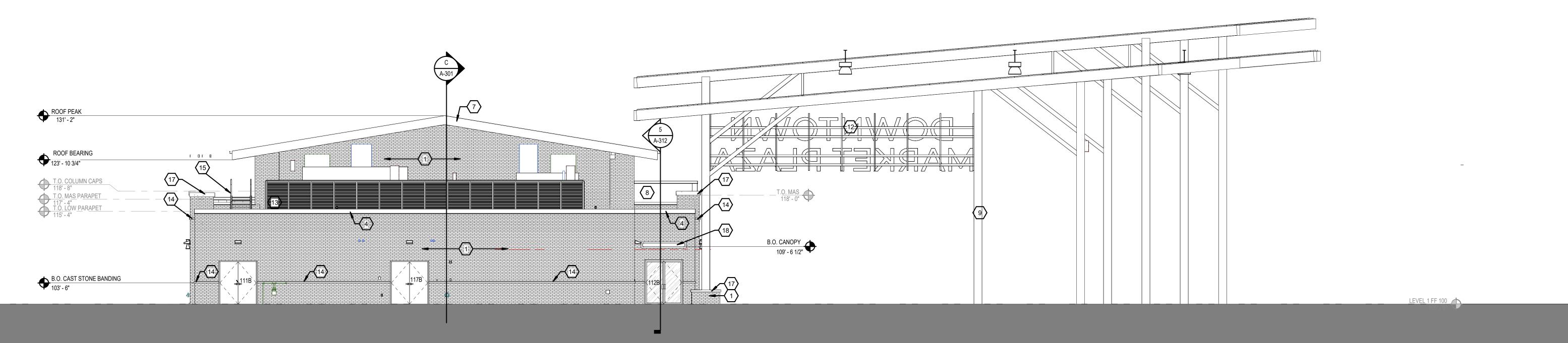
MATERIAL

NUMBER

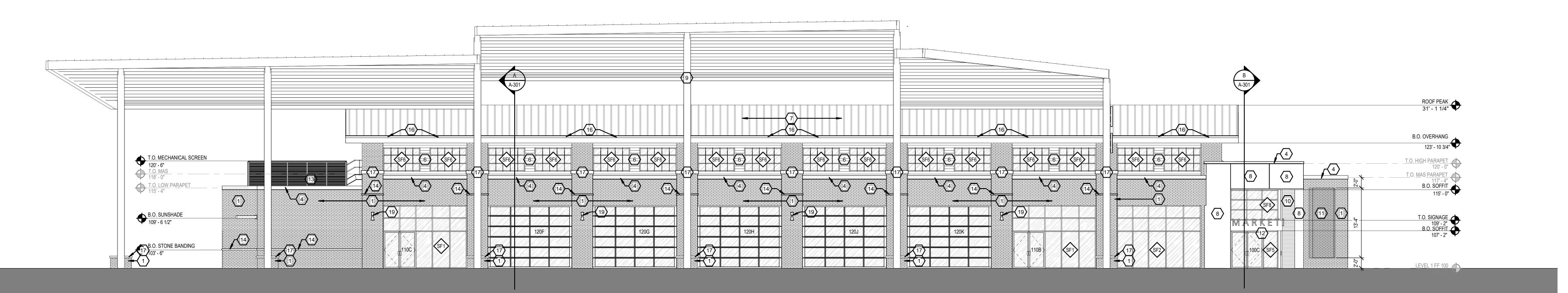








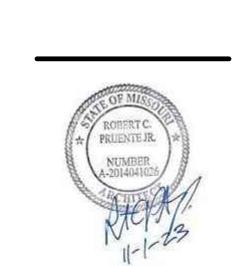
## NORTHEAST ELEVATION

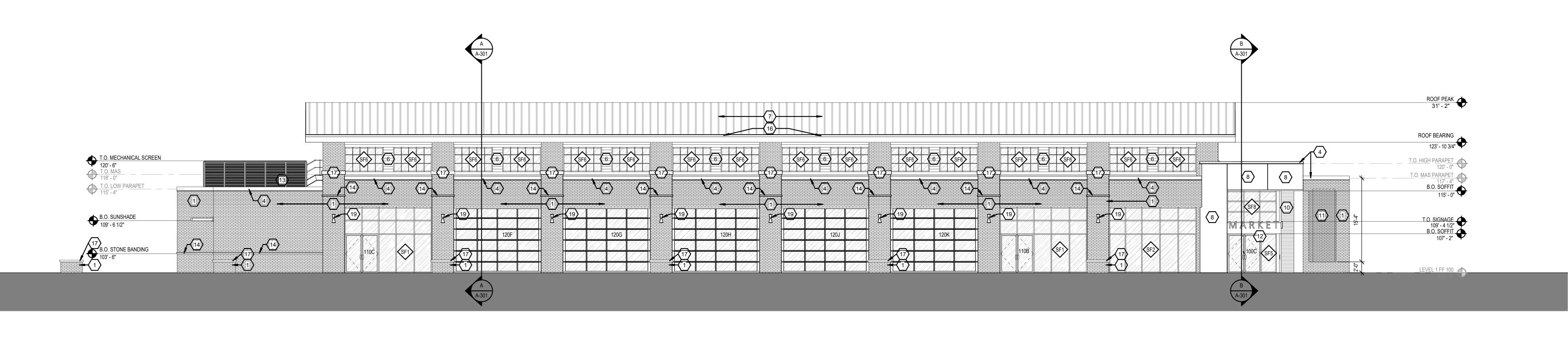


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SUMMIT



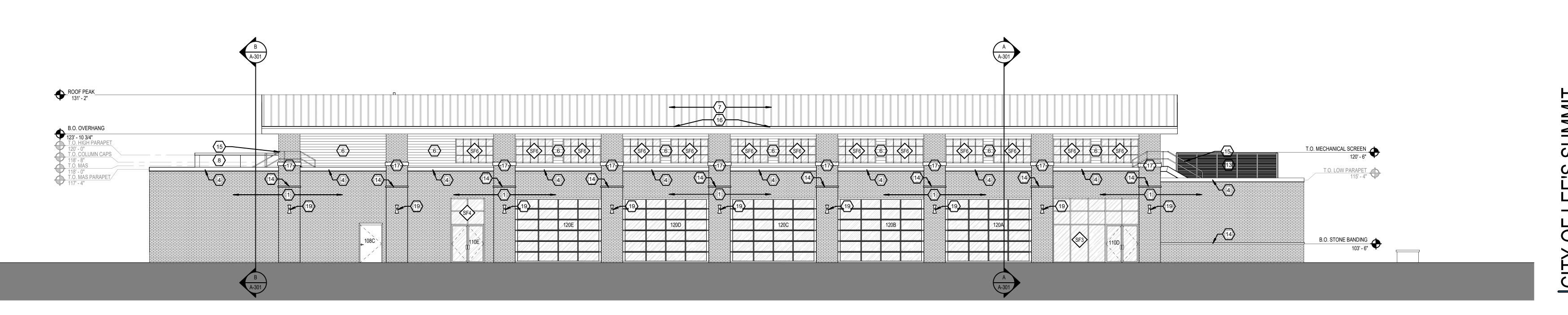




NORTHWEST ELEVATION W/O CANOPY

1/8" = 1'-0"

0 5' 10' 20'



SOUTHEAST ELEVATION W/O CANOPY

1/8" = 1'-0"

0 5' 10' 20'

	ELEVATION KEYNOTES	
NUMBER	MATERIAL	
1	BRICK - MODULAR BERWICK BLEND`	
2	STOREFRONT SYSTEM - DARK BRONZE	
3	STOREFRONT- DARK BRONZE	
4	PRE MANUFACUTURED CONTIUOUS CLEAT COPING CAP	
5	OVERHEAD GARAGE DOOR	
6	FIBER CEMENT PANEL :BASIS OF DESIGN NICHIHA; RIBBED; INDIGO	
7	STANDING SEAM METAL ROOF	
8	BACK LIT RAINSCREEN: BASIS OF DESIGN MOZ DESIGNS BACKLIT METAL PANEL (CUSTOM)	
9	PAINTED STEEL - DARK BRONZE	
10	EXTRUDED ALUMINUM - LIGHT CHERRY WOOD GRAIN	
11	CHANGEABLE ART INSTALLATION - BRICK ACCENT	
12	12 SIGNAGE- INTERNALLY ILLUMINATED CHANNEL LETTER:	
13	MECHANICAL SCREEN	
14	4" CAST STONE PROFILE	
15	PREFAB STAIR, REF SPECS	
16	PREFINISHED MTL GUTTER & DOWNSPOUTS	
17	CAST STONE COLUMN CAP	
18	PREFABRICATED CANOPY	
19	EXTERIOR WALL SCONCE, REF ELEC.	

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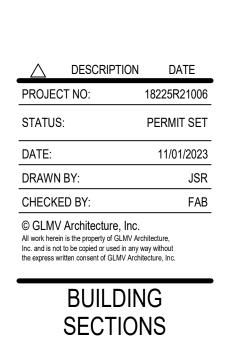
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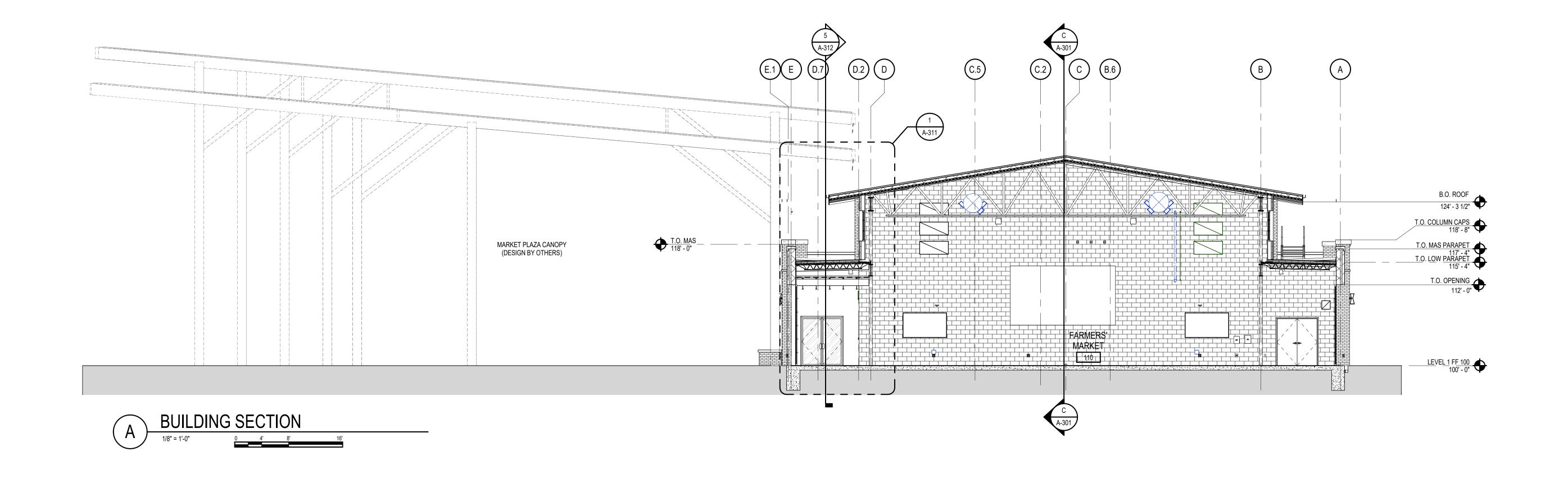
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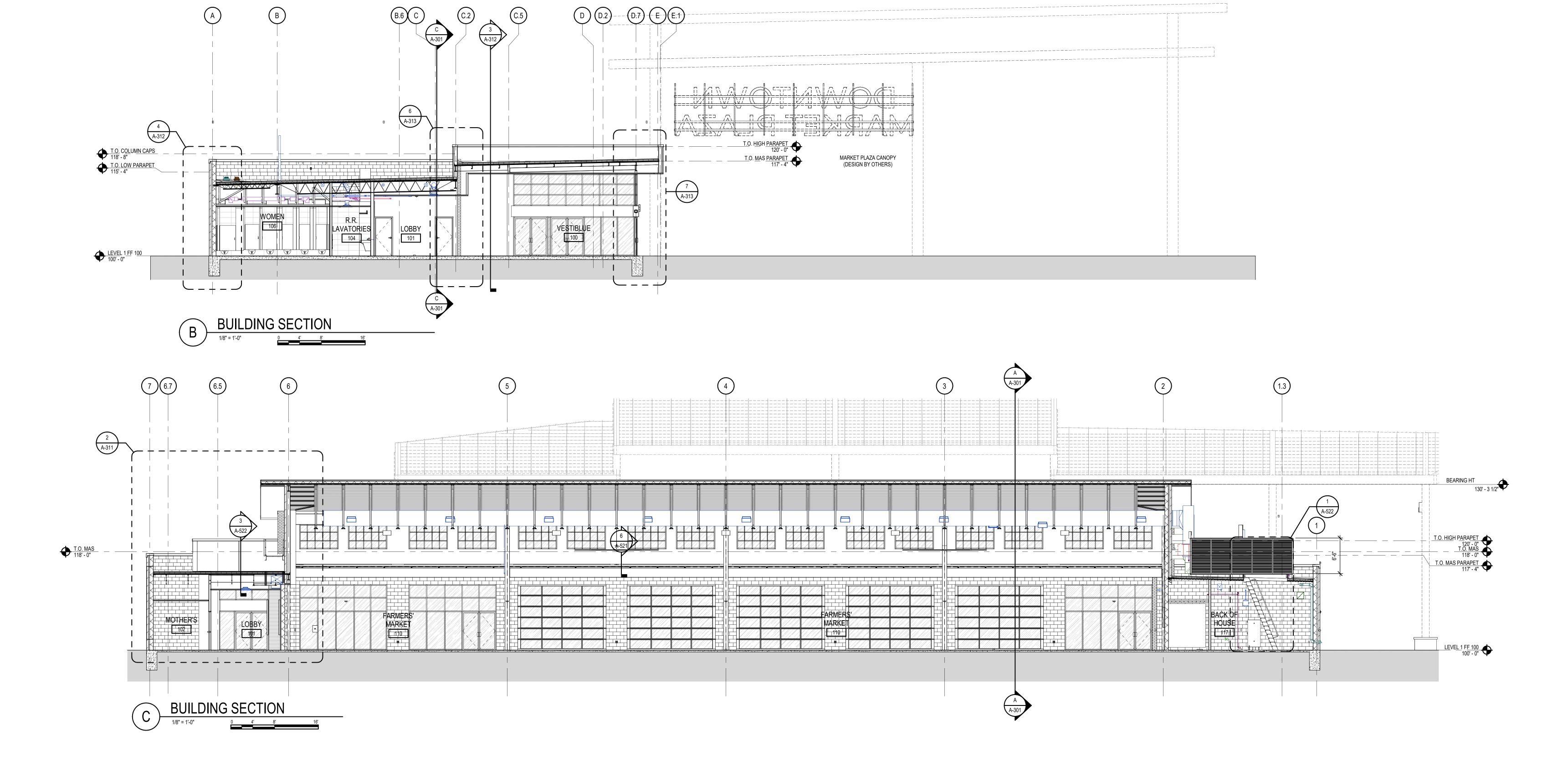
EXTERIOR
ELEVATIONS

GRAIN
ENT
LETTERS





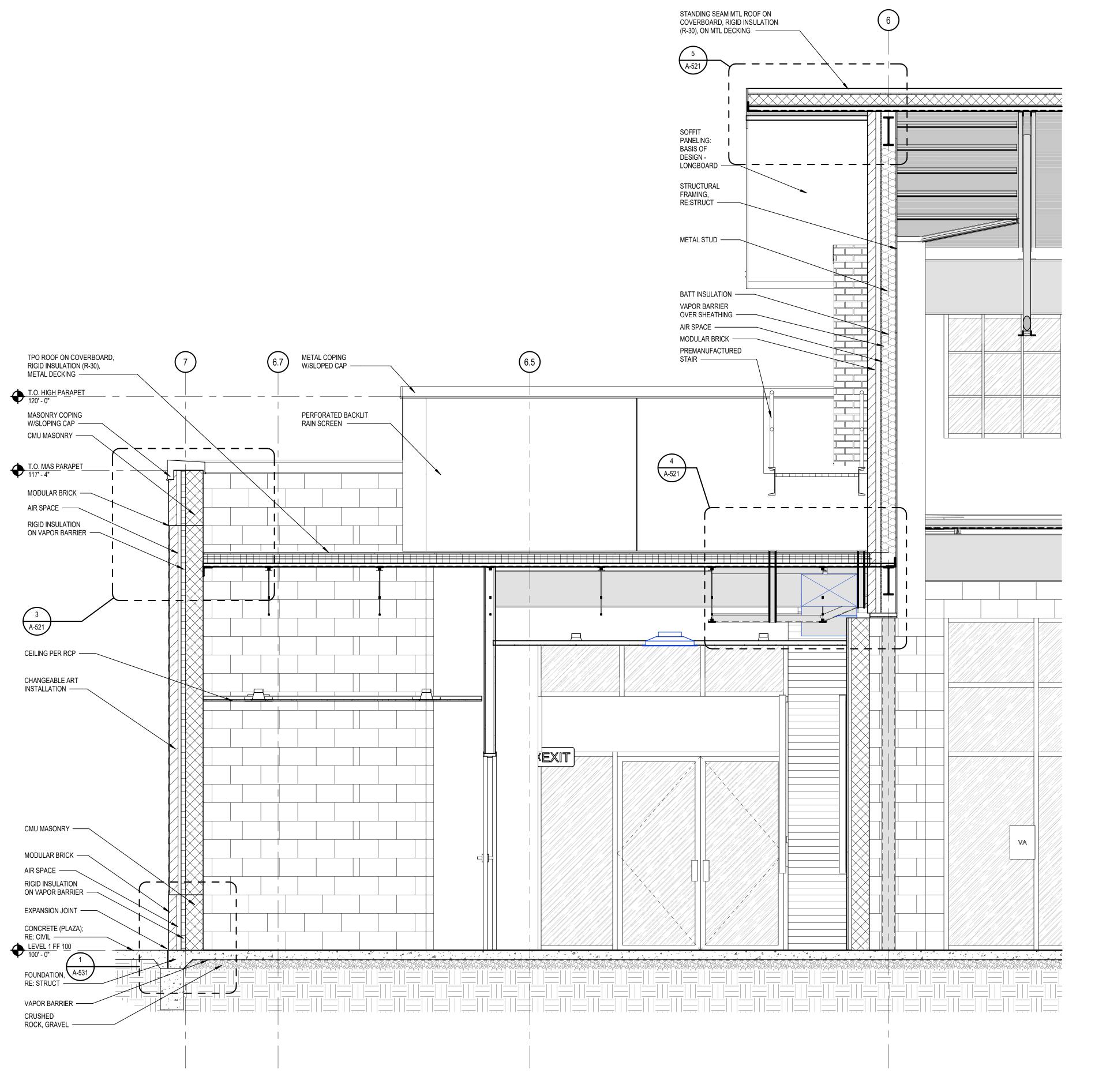


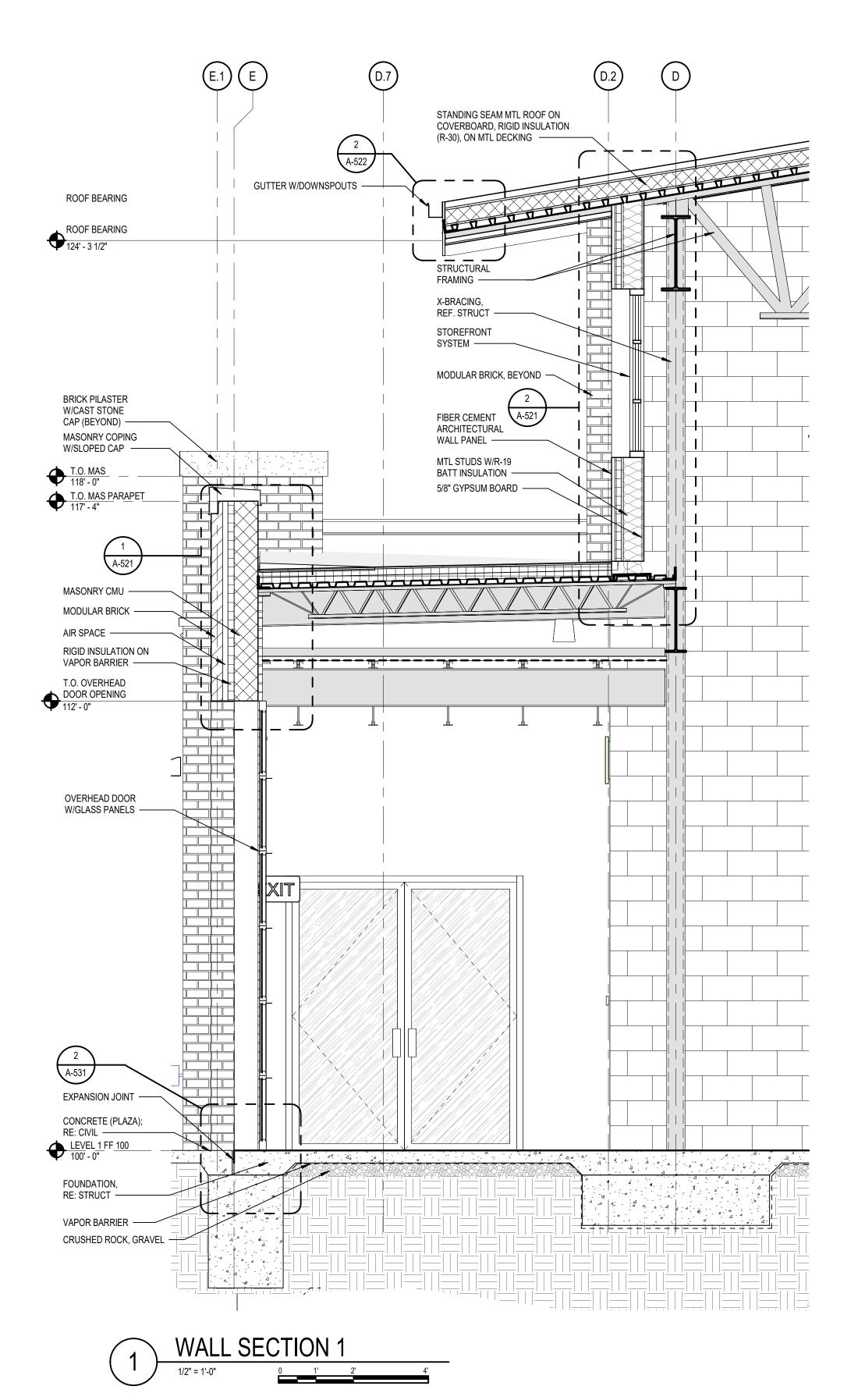








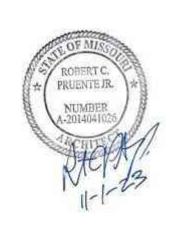




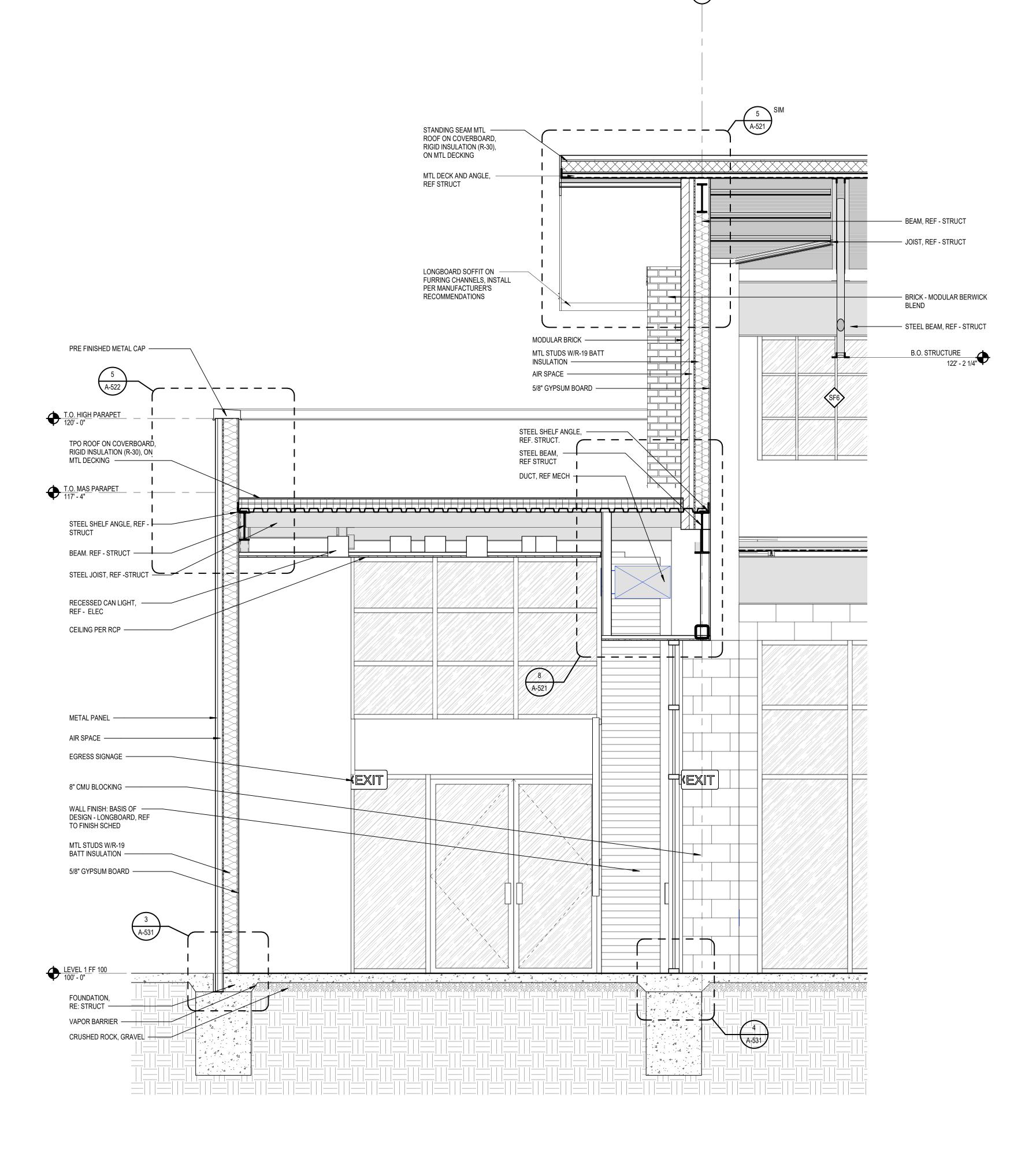
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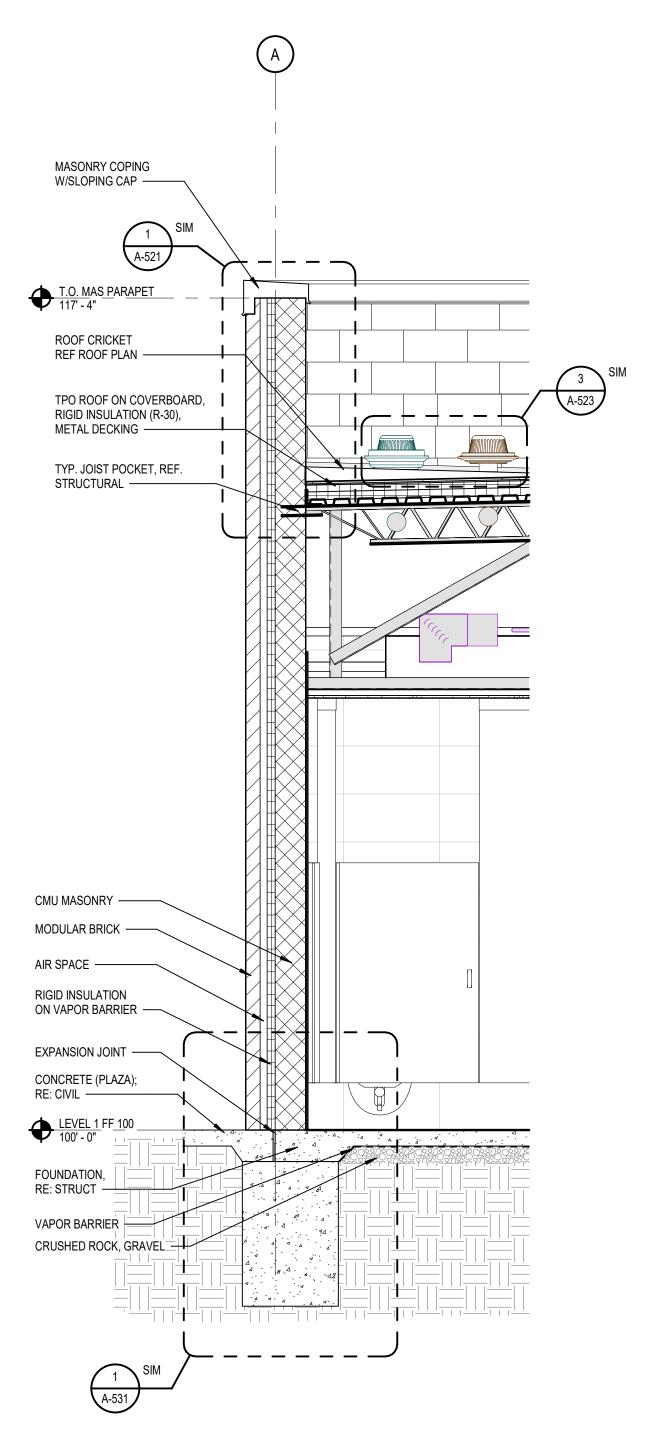
WALL SECTIONS

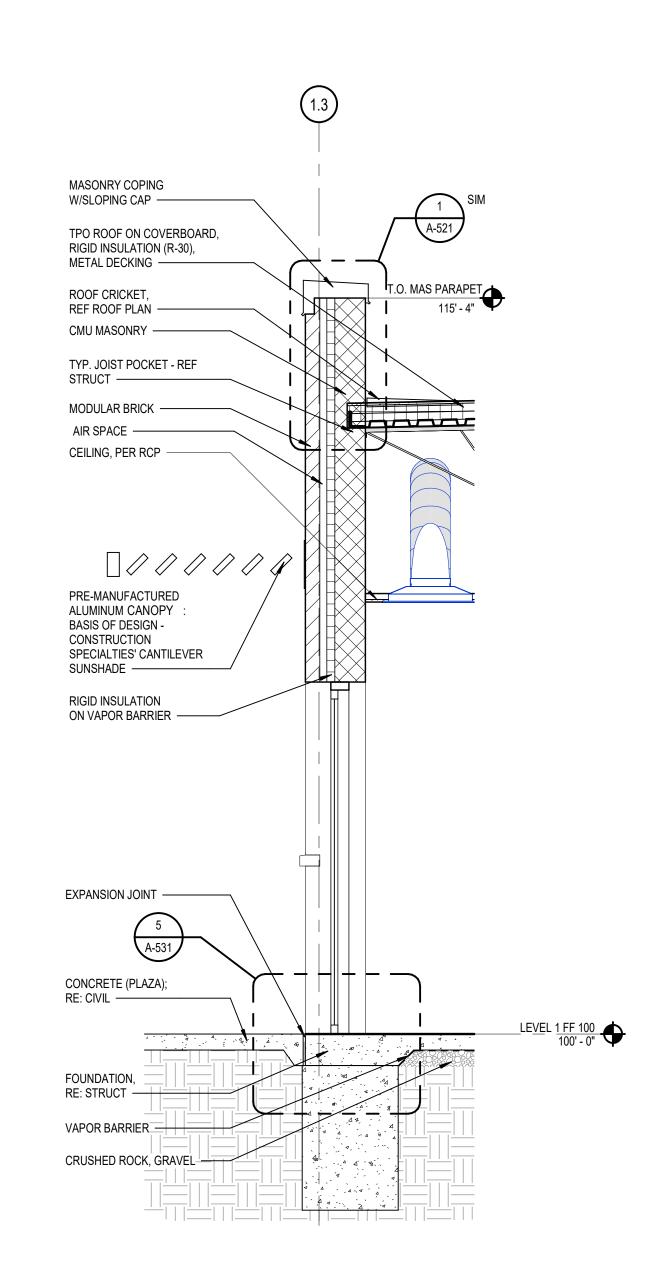












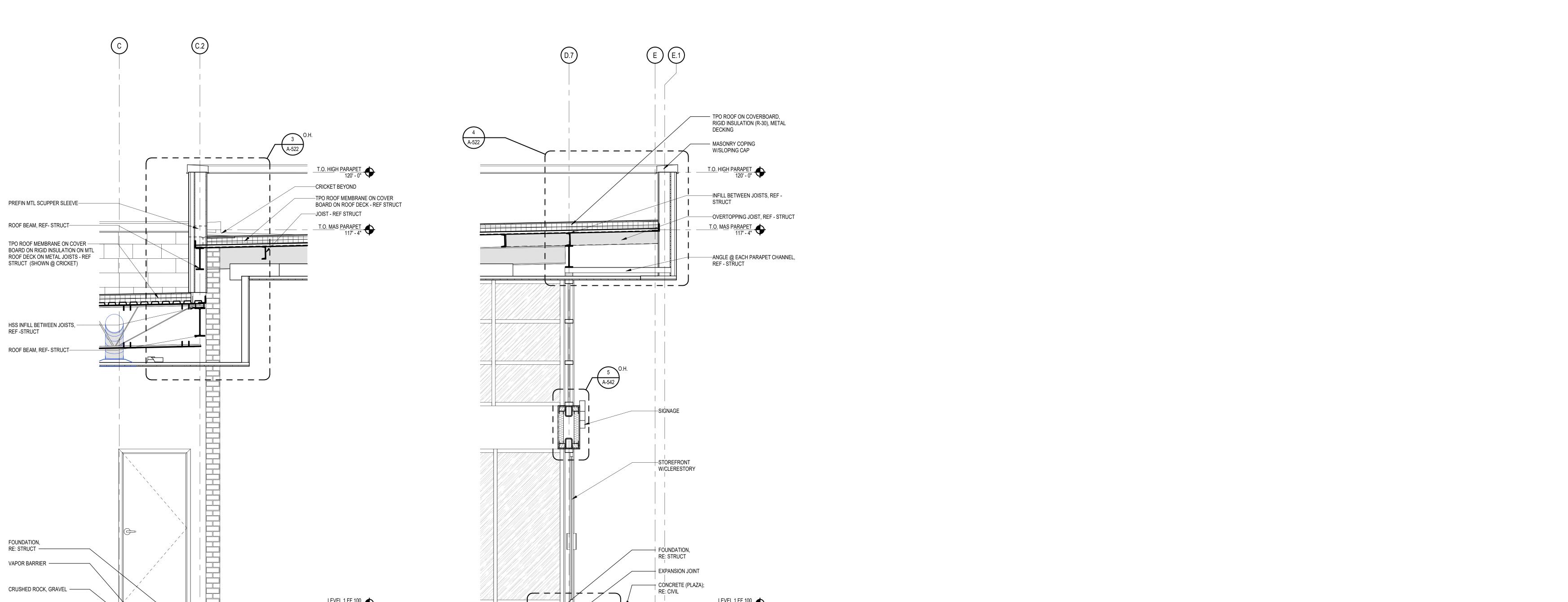
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WALL SECTIONS







CRUSHED ROCK, GRAVEL

WALL SECTION 7

1/2" = 1'-0"

0 1' 2'

PREFIN MTL SCUPPER SLEEVE-

ROOF BEAM, REF- STRUCT-

HSS INFILL BETWEEN JOISTS, — REF -STRUCT

ROOF BEAM, REF- STRUCT-

FOUNDATION, RE: STRUCT ——

VAPOR BARRIER —

CRUSHED ROCK, GRAVEL -----

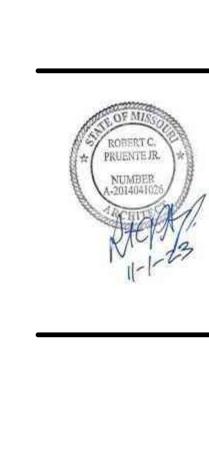
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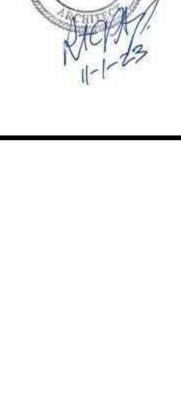
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WALL SECTIONS





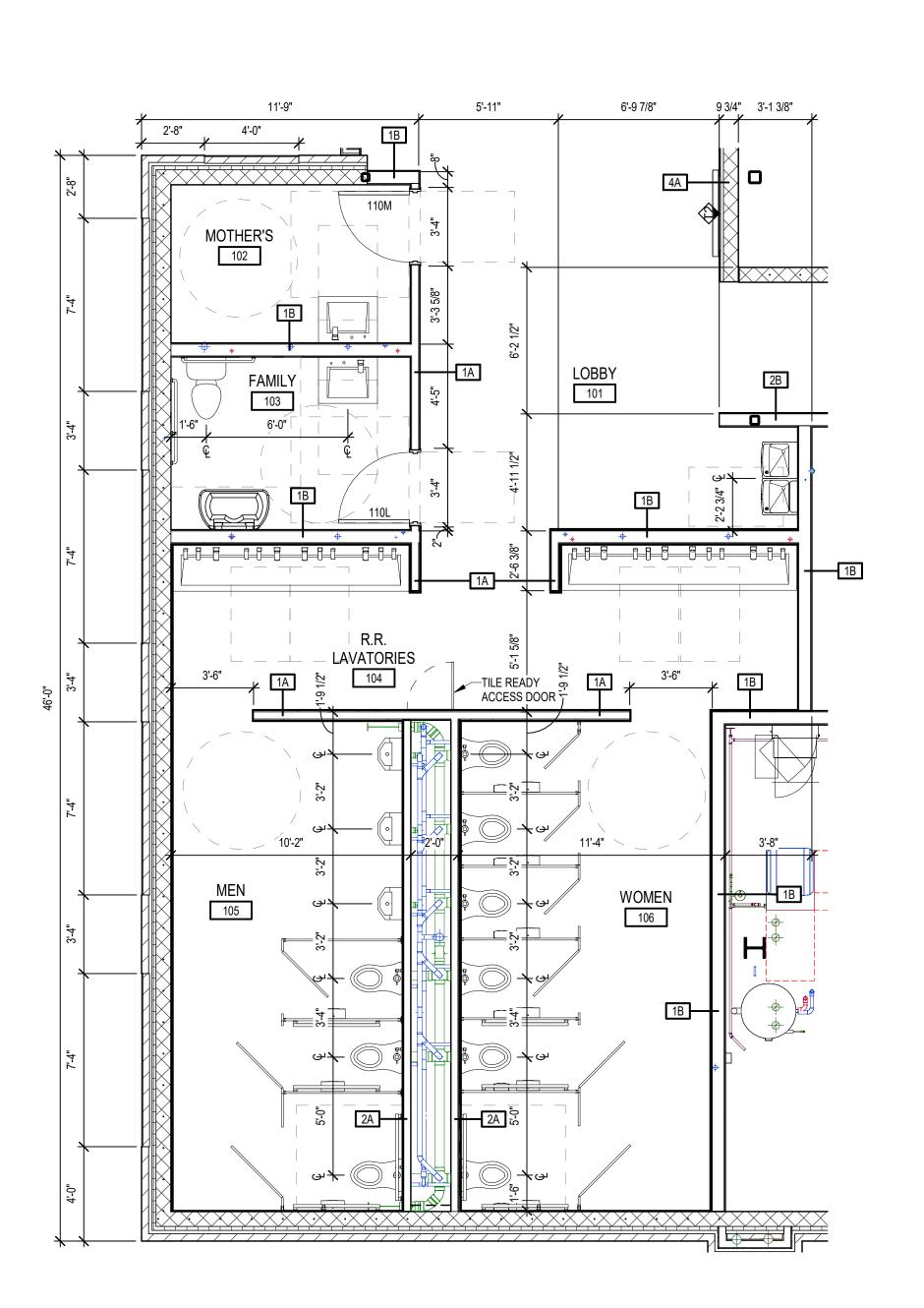


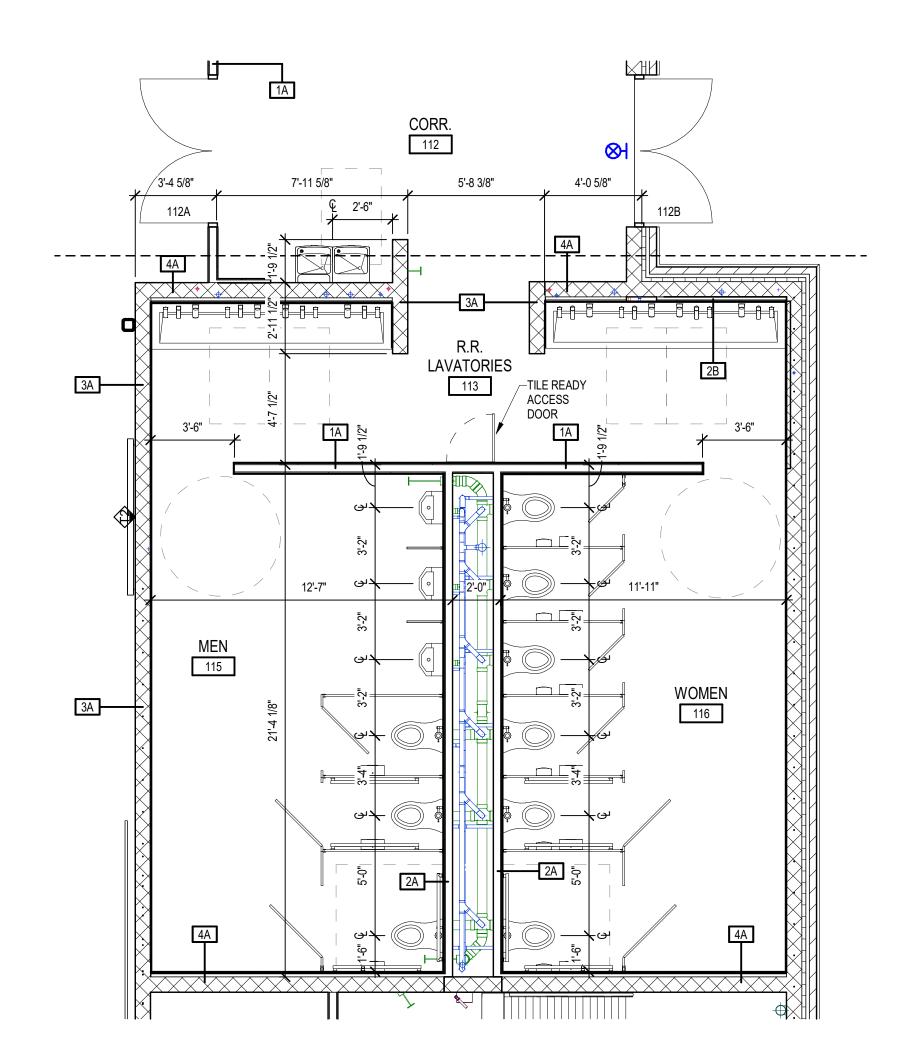


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ENLARGED RESTROOM PLANS



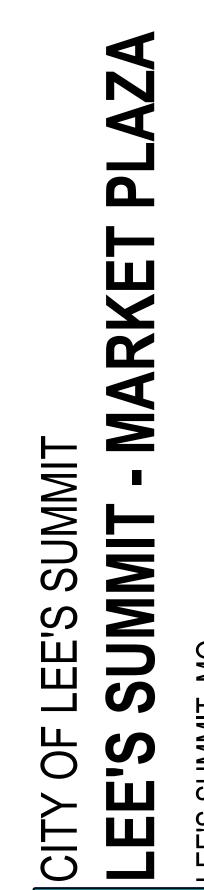


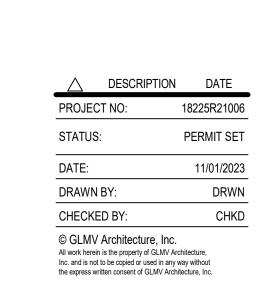
SOUTHWEST ENLARGED RESTROOM PLAN

NORTHEAST ENLARGED RESTROOM PLAN

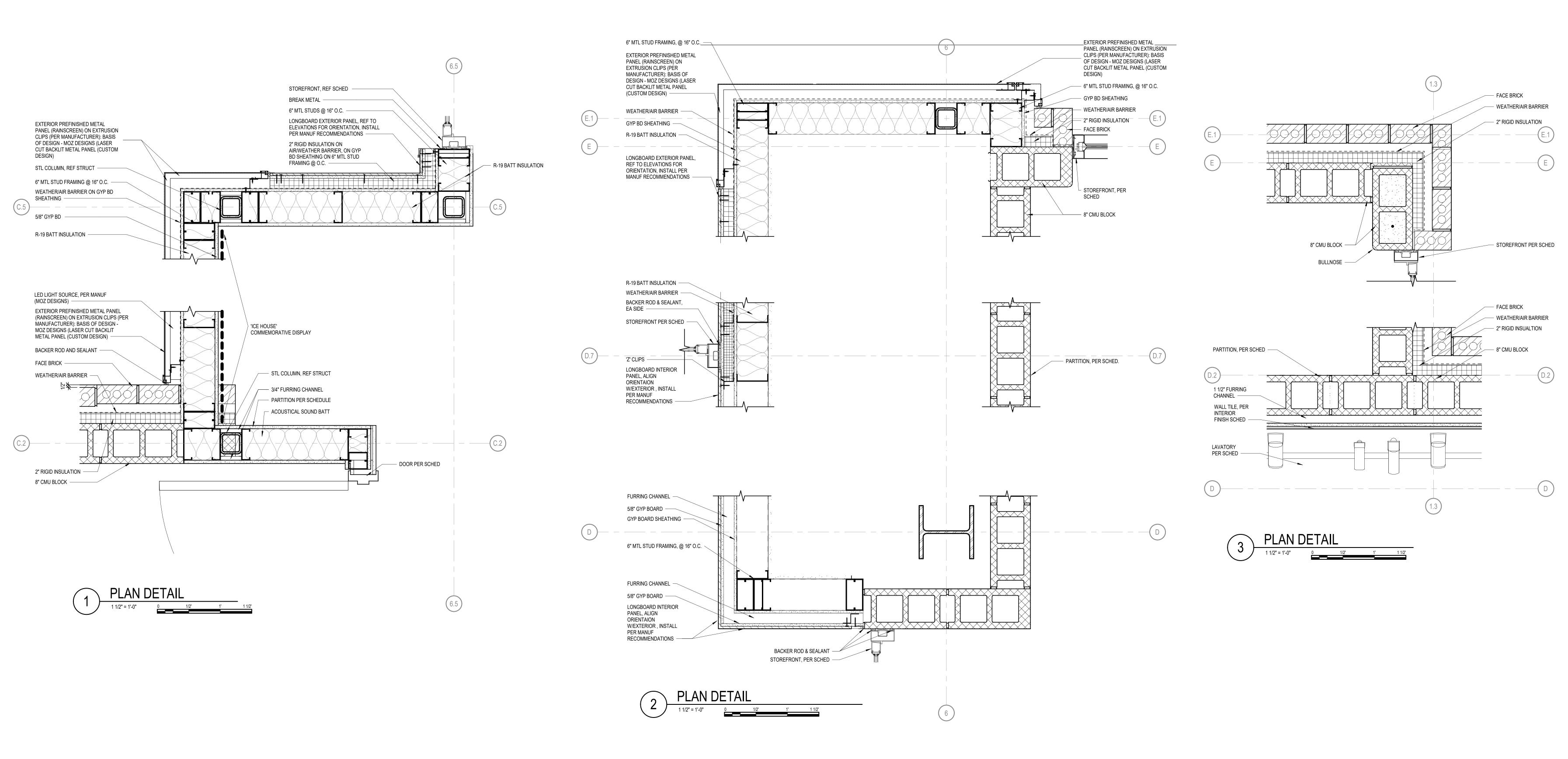


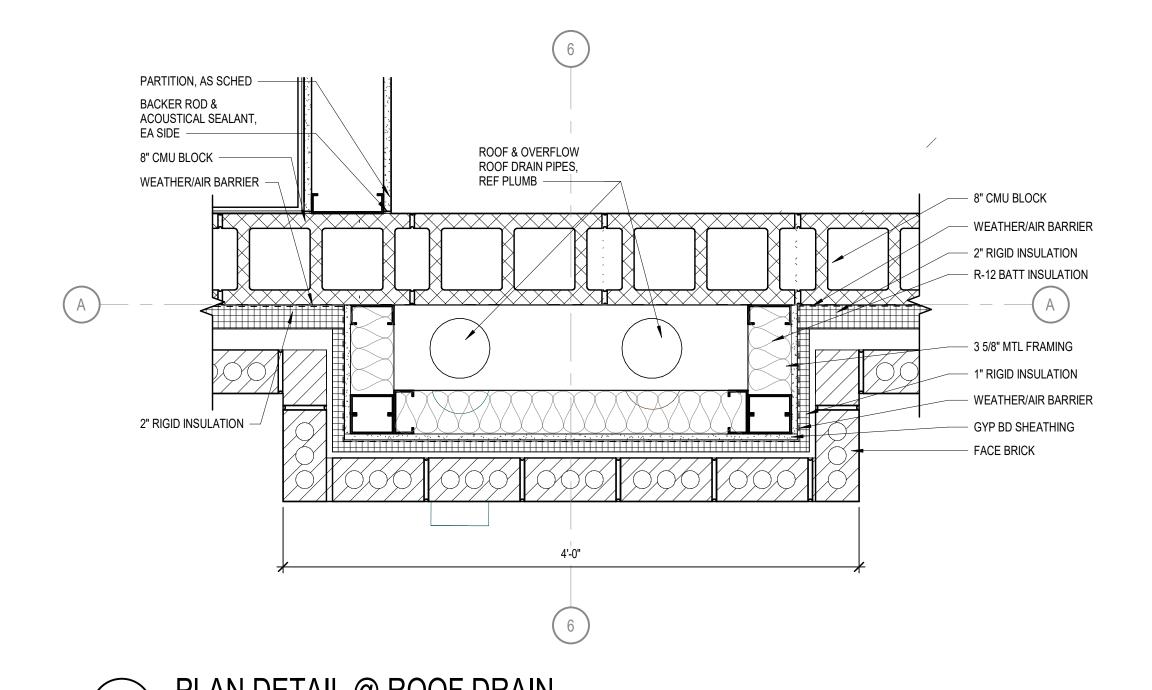


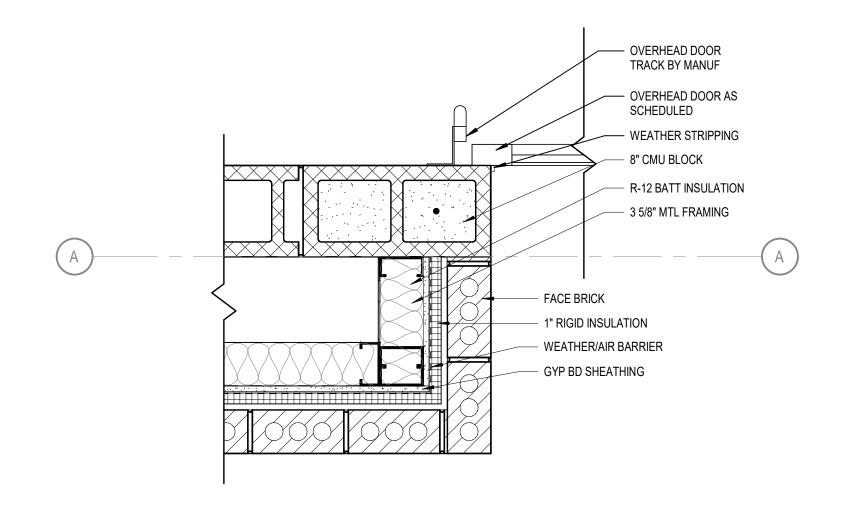


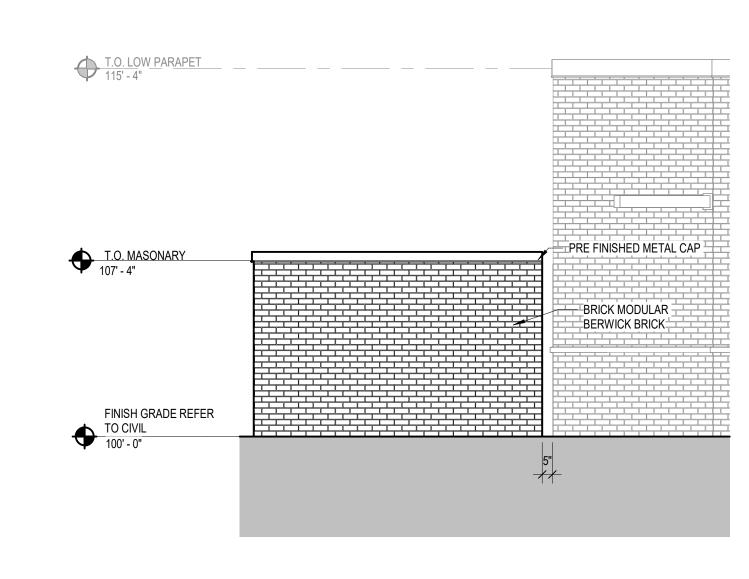


PLAN DETAILS

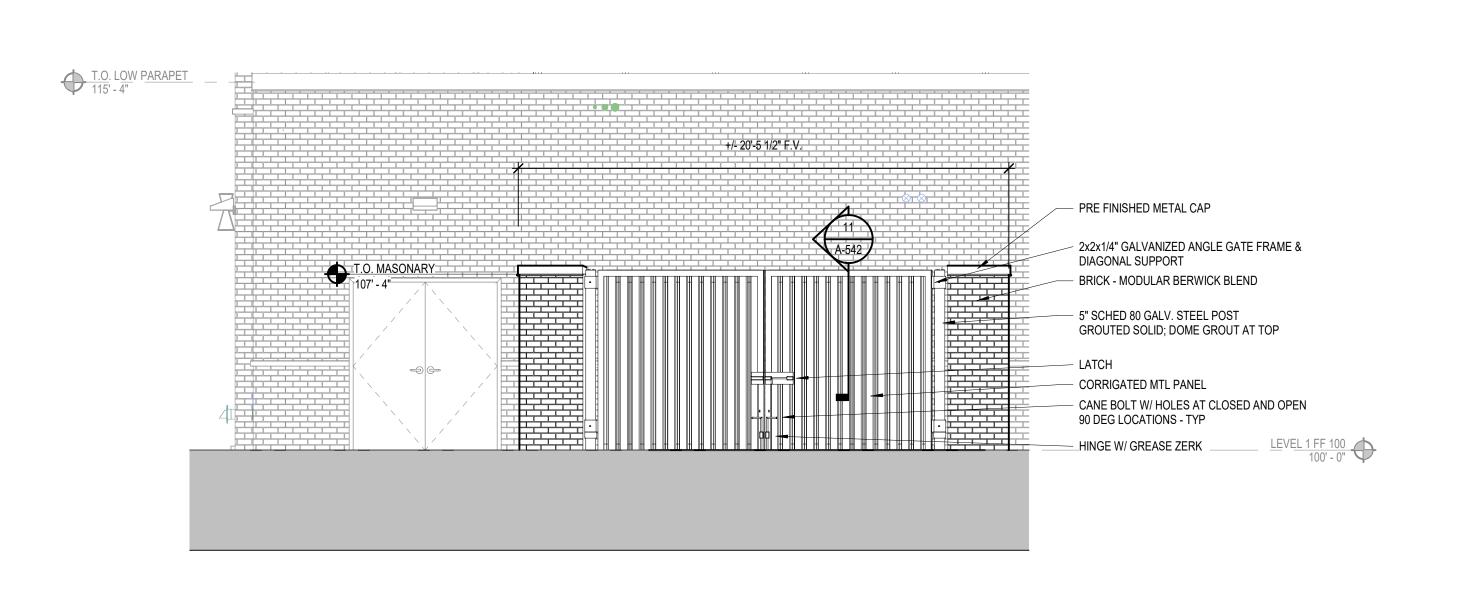








TRANSFORMER ENCLOSURE NORTH ELEVATION



TANSFORMER ENCLOSURE SOUTH ELEVATION

PRE FINISHED METAL CAP

— 5" SCHED 80 GALV. STEEL POST GROUTED SOLID; DOME GROUT AT

- BRICK MODULAR BERWICK

- CANE BOLT W/ HOLES AT

- HINGE W/ GREASE ZERK

LOCATIONS - TYP

CLOSED AND OPEN 90 DEG

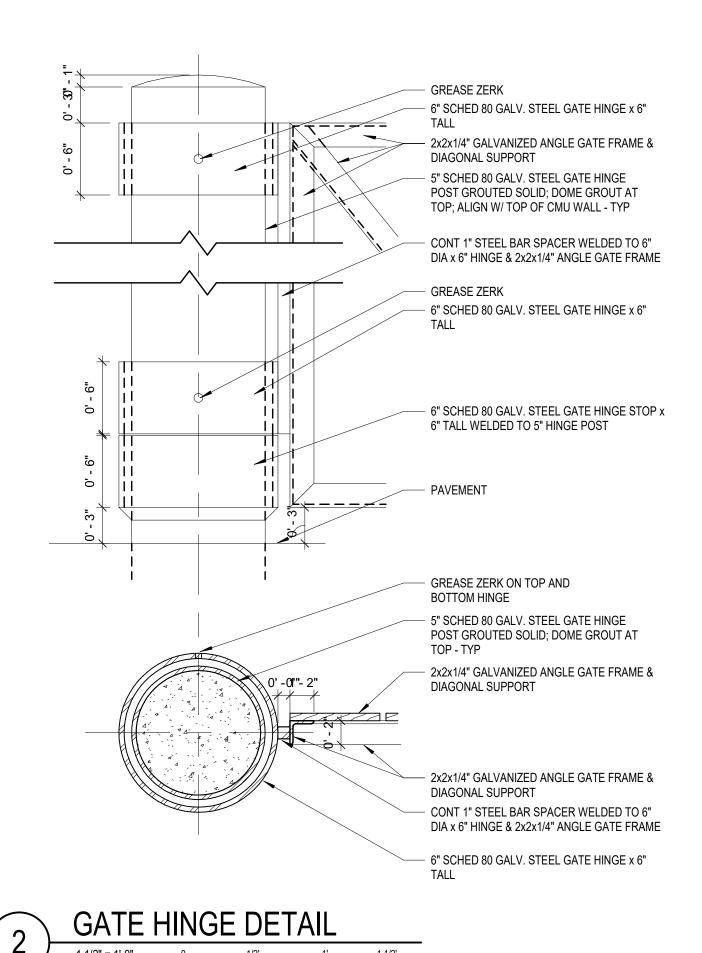
- LATCH

## PRE FINISHED METAL T.O. MASONRY HINGE W/ GREASE ZERK - TYP — 5" SCHED 80 GALV. STEEL **GATE HINGE POST** GROUTED SOLID; DOME GROUT AT TOP - TYP 8" GROUT FILLED CMU -CORRUGATED MTL -3x3x3/16" GALVANIZED TUBE GATE FRAME & DIAGONAL SUPPORT LATCH -HINGE W/ GREASE -ZERK - TYP CANE BOLT W/ HOLES AT CLOSED AND OPEN 90 DEG LOCATIONS - TYP HINGE STOP — 1/2" BITUMINOUS -PREFORMED EXPANSION JOINT FILLER PER ASTM D-1751 REF TO STRUCT & CIVIL FOR FOUNDATIONS -FINISH GRADE REFER TO CIVIL

FINISH GRADE

REFER TO CIVIL

SITE TRANSFORMER ENCLOSURE SECTION



- 1/4" STEEL PLATE CANE BOLT REST -HOLE SAW THROUGH FENCE PANELS

2x2x1/4" GALVANIZED ANGLE GATE FRAME & DIAGONAL SUPPORTON GATE FRAMING

2x2x1/4" GALVANIZED ANGLE GATE FRAME &

- 1" Ø x 1" DEEP SLEEVE IN PAVEMENT FOR CANE BOLT AT CLOSED POSITION & 90

(NOT SHOWN FOR CLARITY)

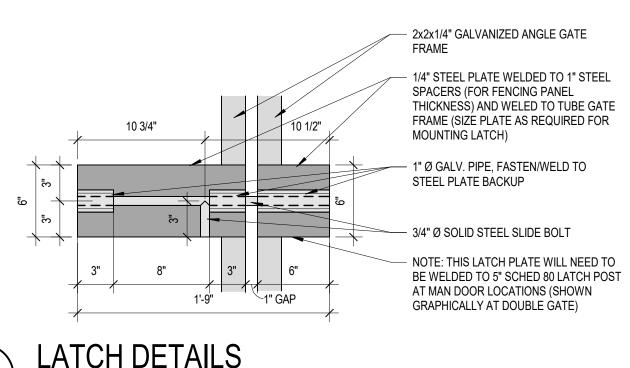
1" Ø GALV. PIPE, FASTEN/WELD

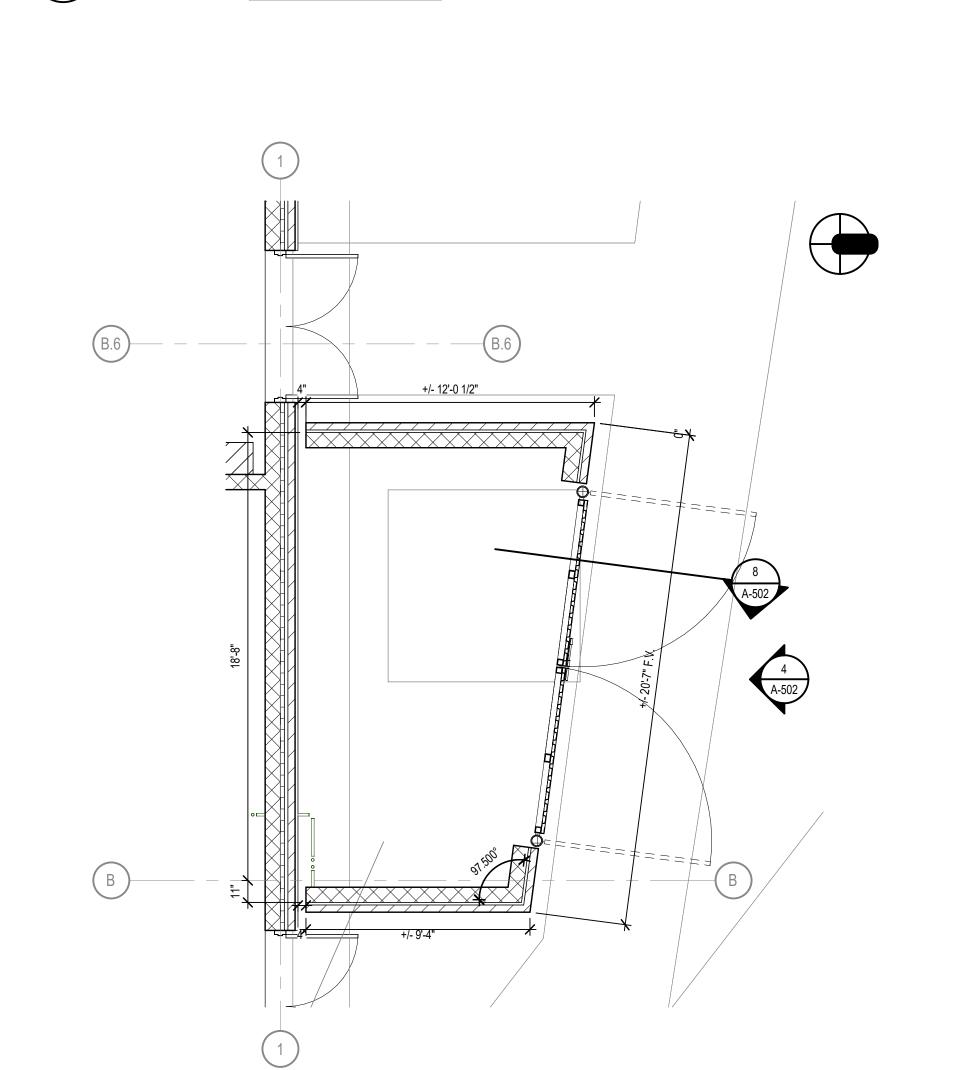
TO GATE FRAMING

DEGREE OPEN POSITION

24" x 5" x 3/4" Ø SOLID STEEL CANE

AS REQUIRED





TRANSFORMER ENCLOSURE - FLOOR PLAN

TRANSFORMER ENCLOSURE FRONT ELEVATION

A-502

SERVICE

**ENCLOSURE** 

**DETAILS** 

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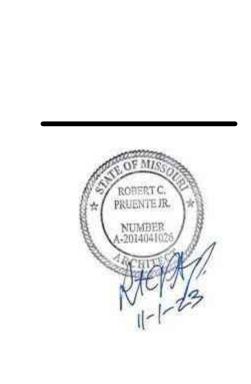
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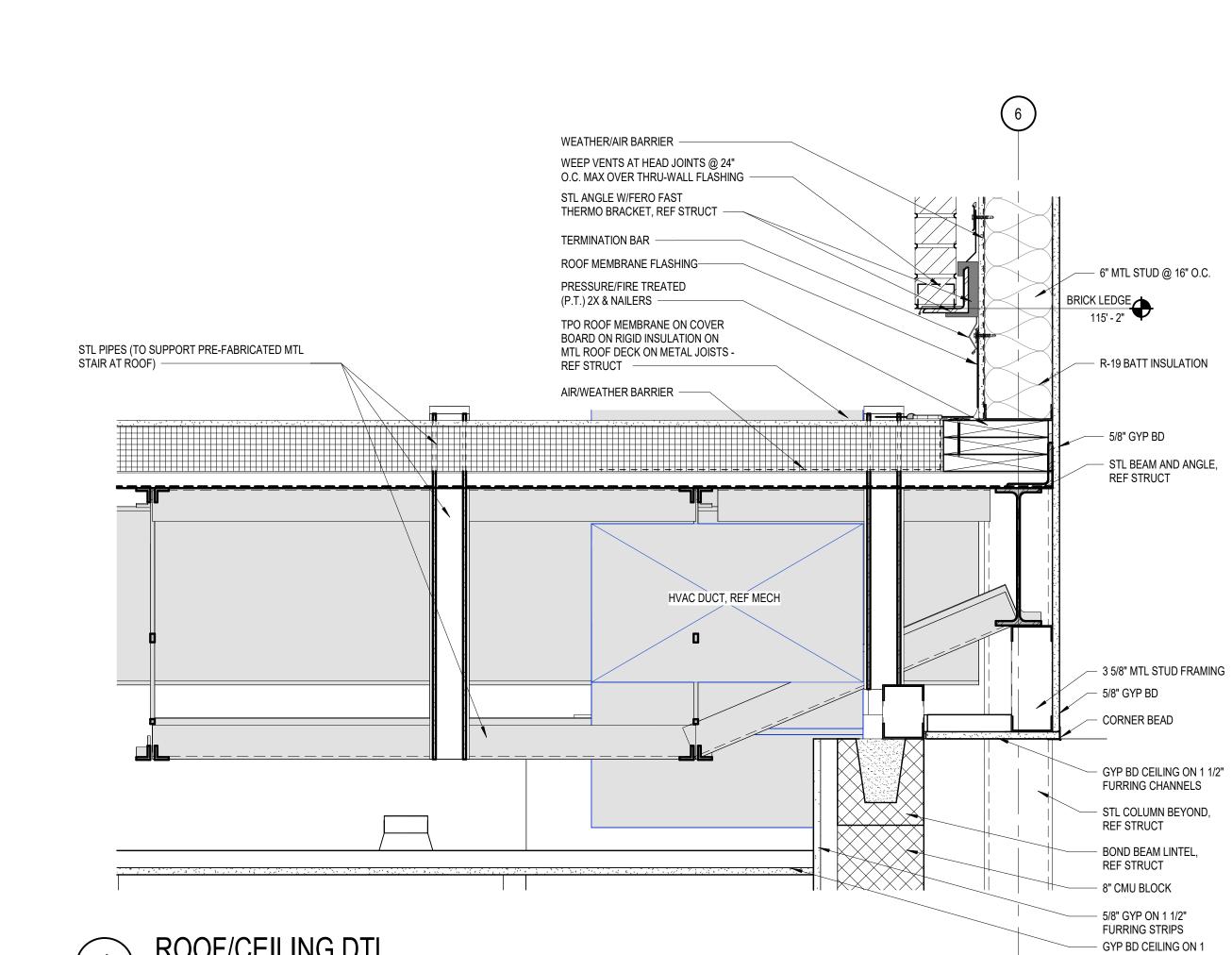
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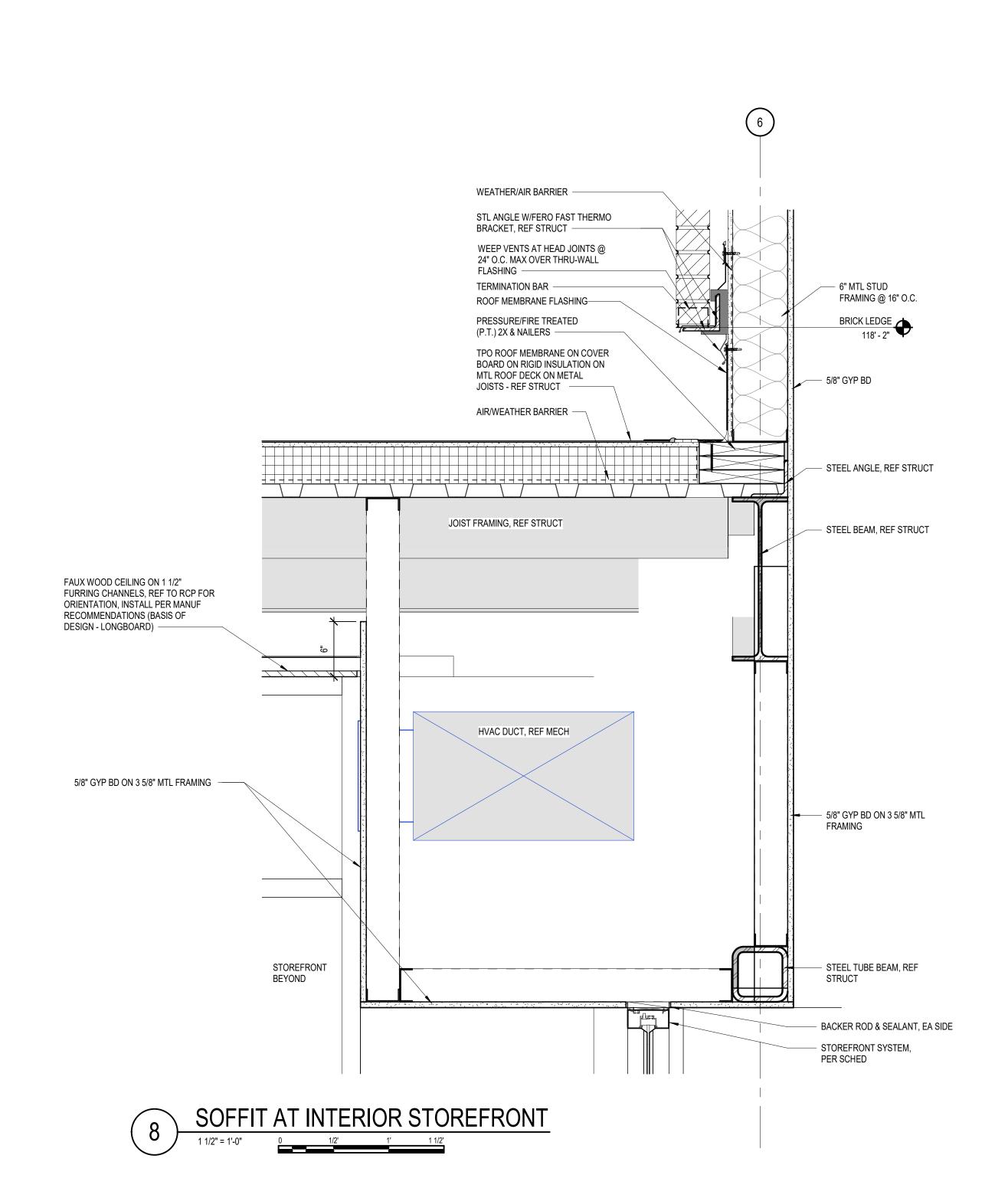
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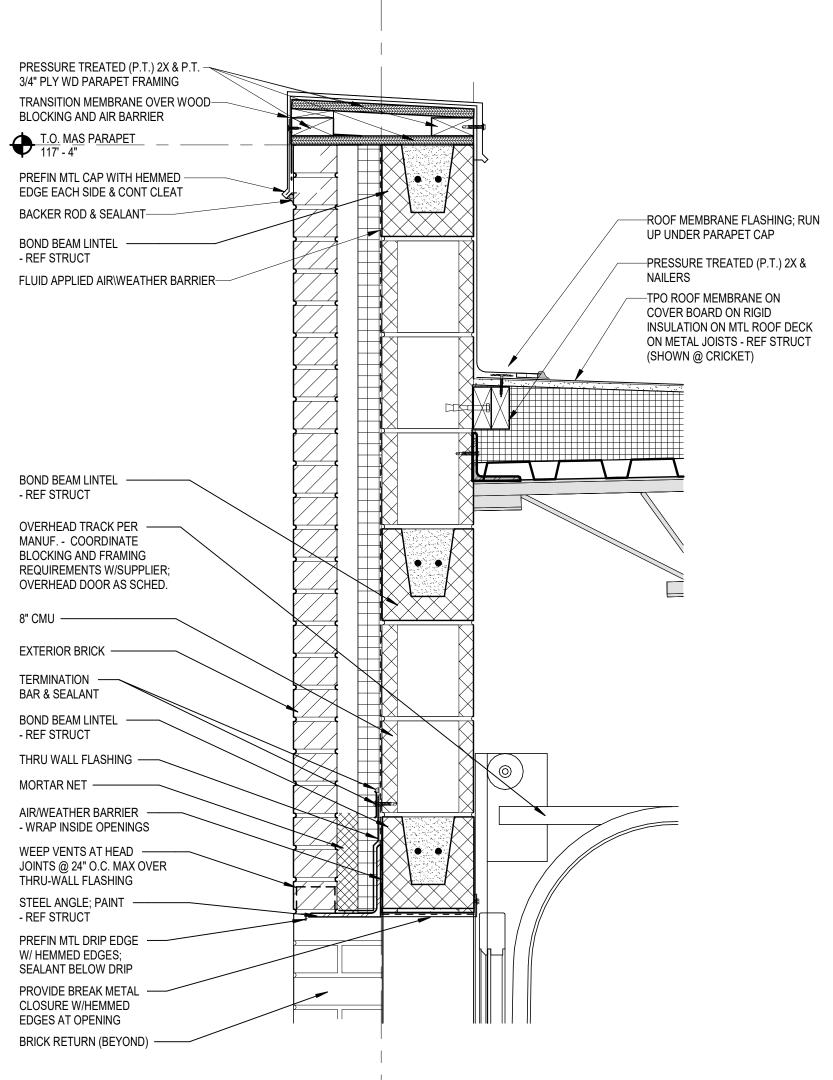
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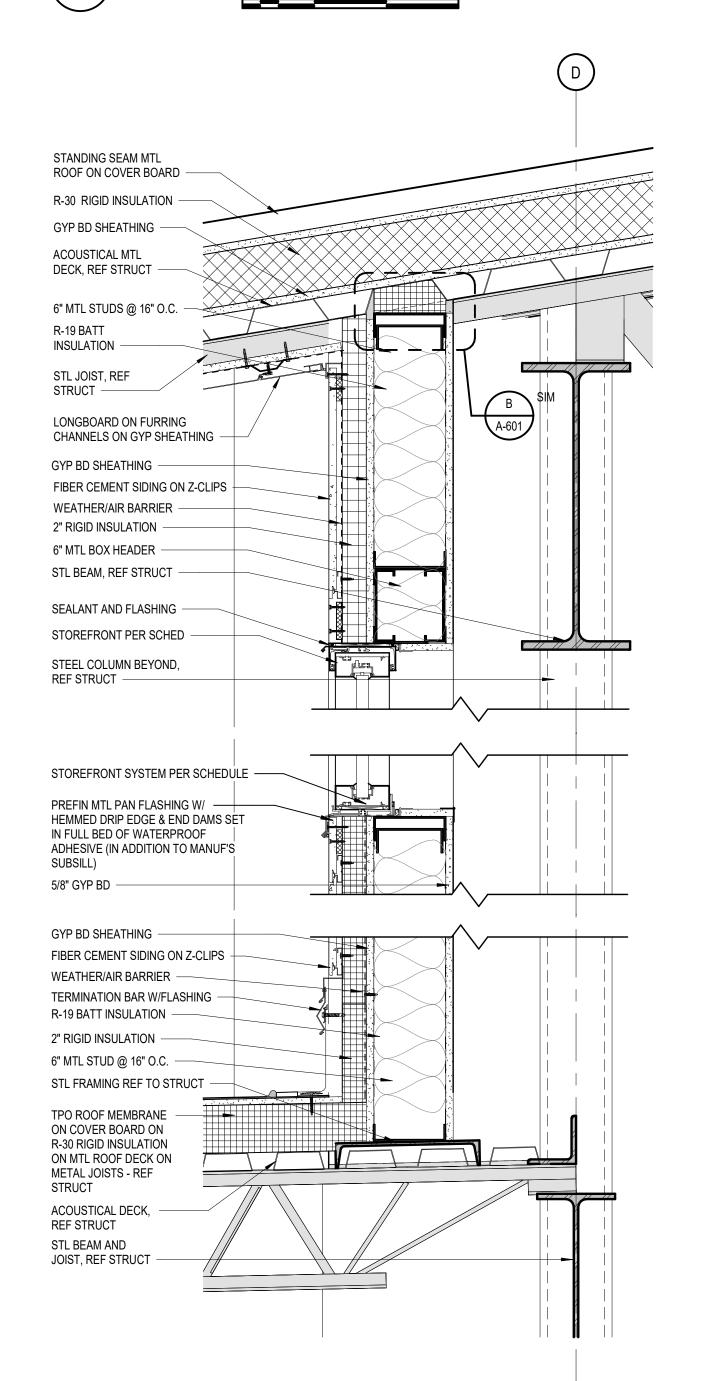
1/2" FURRING CHANNELS



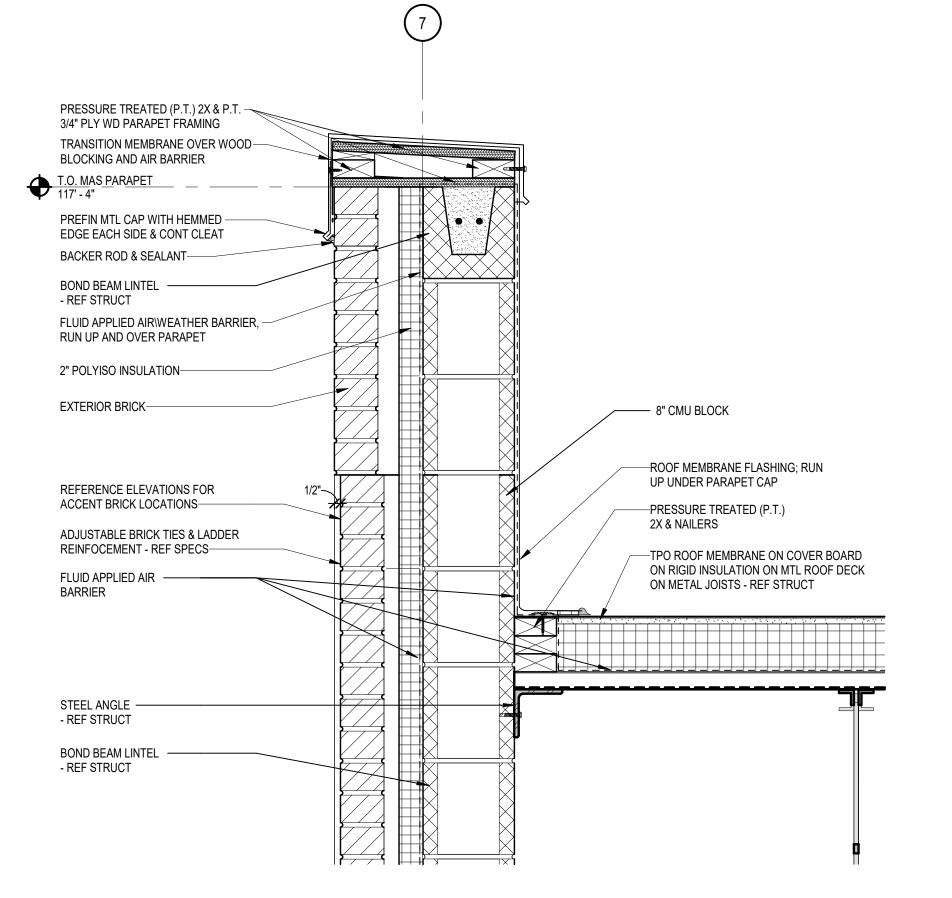




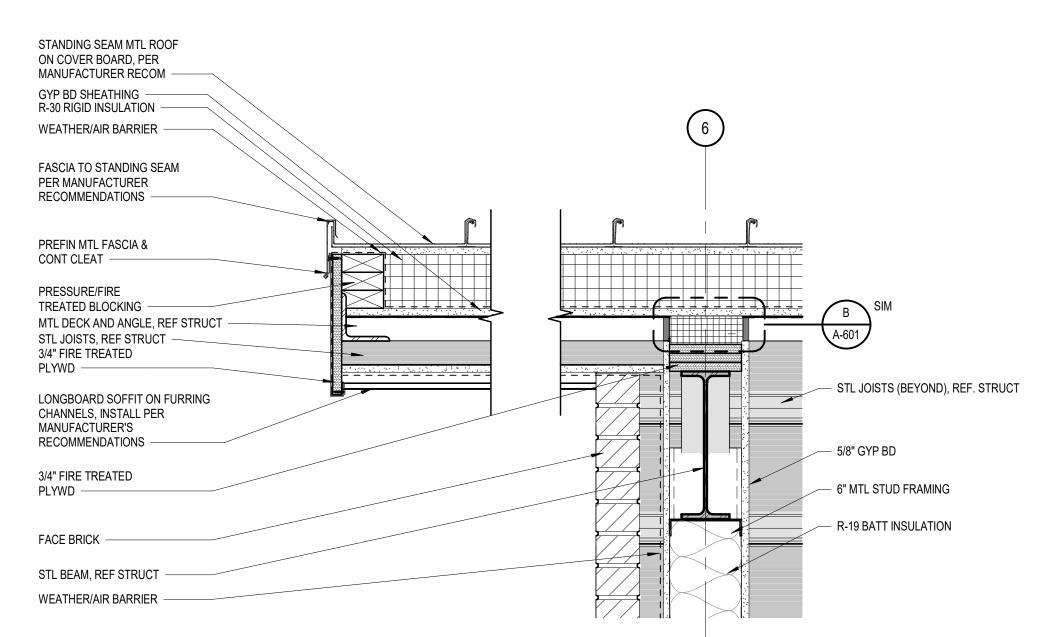




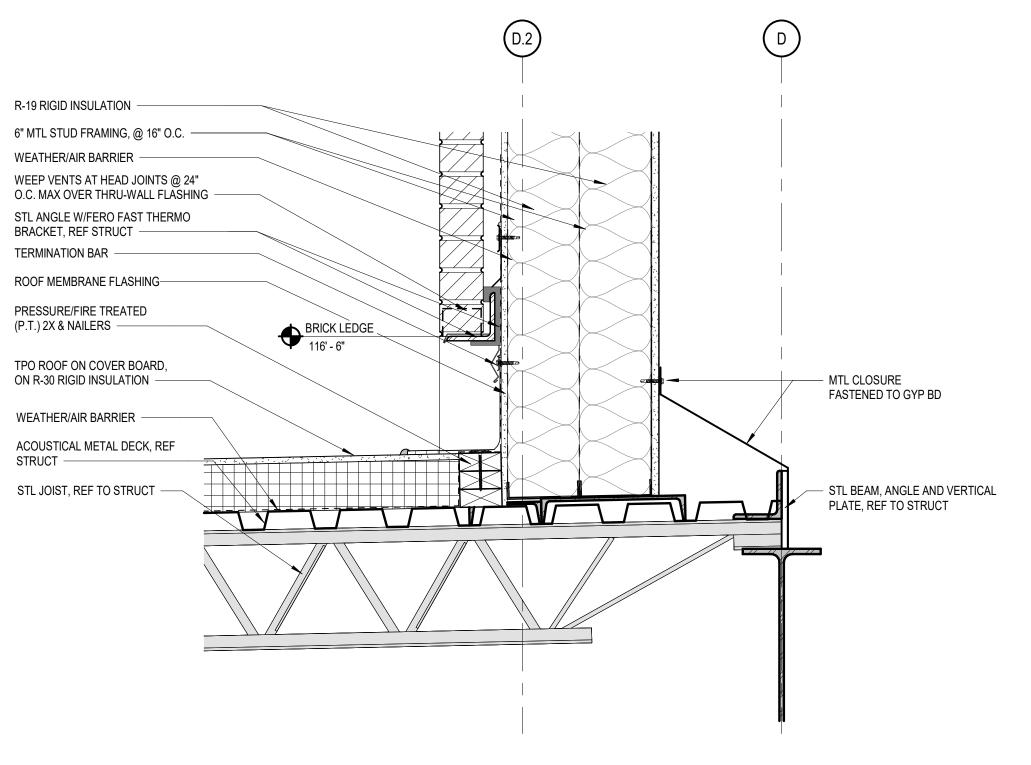




3 ACCENT WALL - PARAPET DTL



## 5 STANDING SEAM ROOF DTL 1 1/2" = 1'-0" 1 1/2' 1 1/2'



6 CLERESTORY AT BRICK PILASTER

A-521

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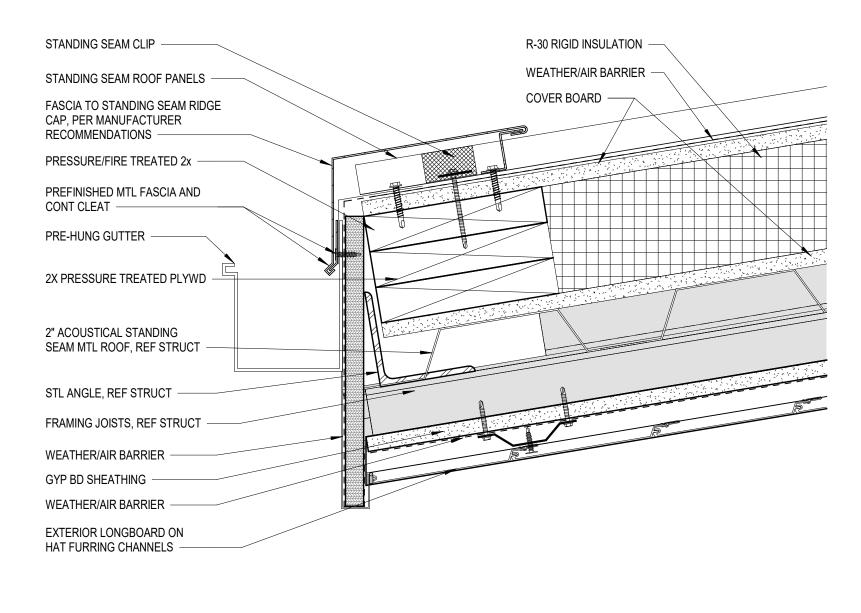
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ROOF DETAILS

DATE:







-PRESSURE TREATED (P.T.) 2X & P.T. 3/4" PLY WD PARAPET FRAMING TRANSITION MEMBRANE OVER WOOD

T.O. HIGH PARAPET 120' - 0"

BLOCKING AND AIR BARRIER —PREFIN MTL CAP WITH HEMMED EDGE EACH SIDE & CONT CLEAT

—BACKER ROD & SEALANT

- AIR/WEATHER BARRIER

- 1/2" EXTERIOR GYP SHEATHING

- BACKLIT LIGHTING OPTION PER

- EXTERIOR PREFINISHED METAL PANEL (RAINSCREEN) ON EXTRUSION CLIPS (PER MANUFACTURER): BASIS

OF DESIGN - MOZ DESIGNS (LASER

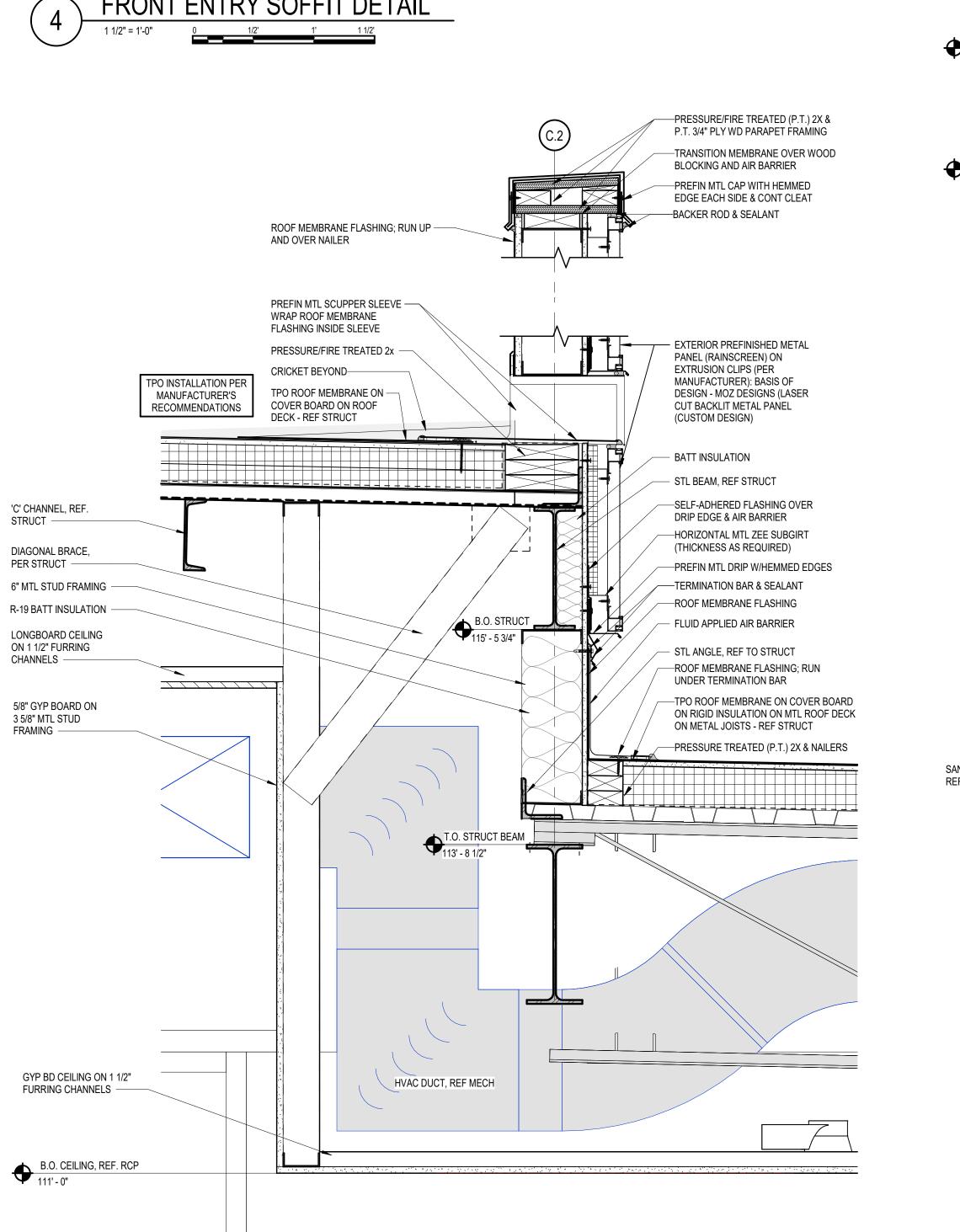
CUT BACKLIT METAL PANEL (CUSTOM

MANUFACURER: BASIS OF DESIGN

- R-19 BATT INSULATION

MOZ DESIGNS

- 6" BOX HEADER



AIR/WEATHER BARRIER -

OVER NAILER PRESSURE TREATED (P.T.)

TPO ROOF MEMBRANE ON COVER BOARD ON RIGID

INSULATION ON MTL ROOF DECK ON METAL JOISTS -

LONGBOARD EXTERIOR SOFFIT PANEL,

REF TO RCP FOR ORIENTATION

GYP BD SHEATHING -

ROOF MEMBRANE -FLASHING; RUN UP AND

2X & NAILERS —

REF STRUCT

FRONT ENTRY SOFFIT DETAIL

STL JOIST FRAMING,

REF STRUCT —

STL BEAM, REF

3 5/8" MTL STUD ----

STRUCTURAL COLUMN

BACKER ROD & SEALANT @ PERIMETER EACH

STRUCT —

BEYOND -

6" MTL STUD -

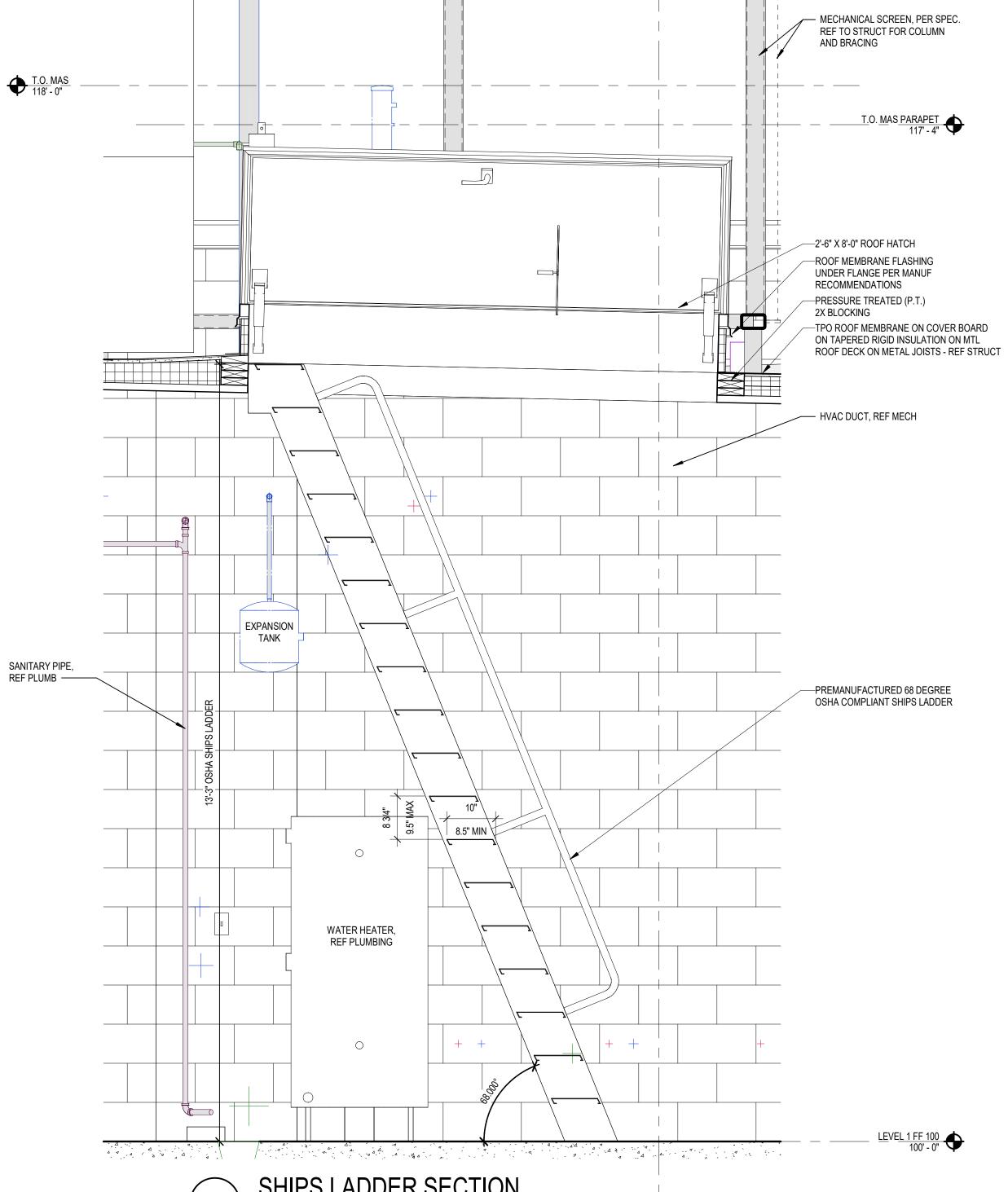
SOFFIT PANEL

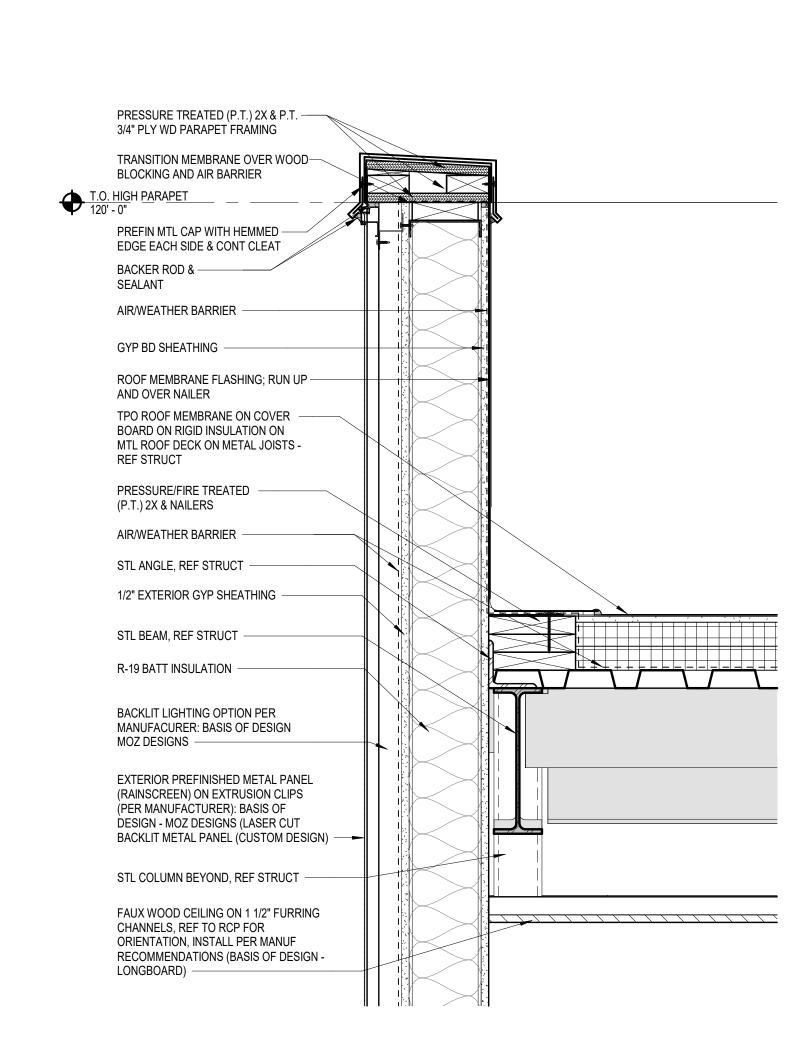
FRAMING (@16" O.C.)

W/ BATT INSULATION

5/8" GYPSUM SHEATHING

LONGBOARD INTERIOR





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TPO ROOFING MEMBRANE

-WATER CUT OFF MASTIC

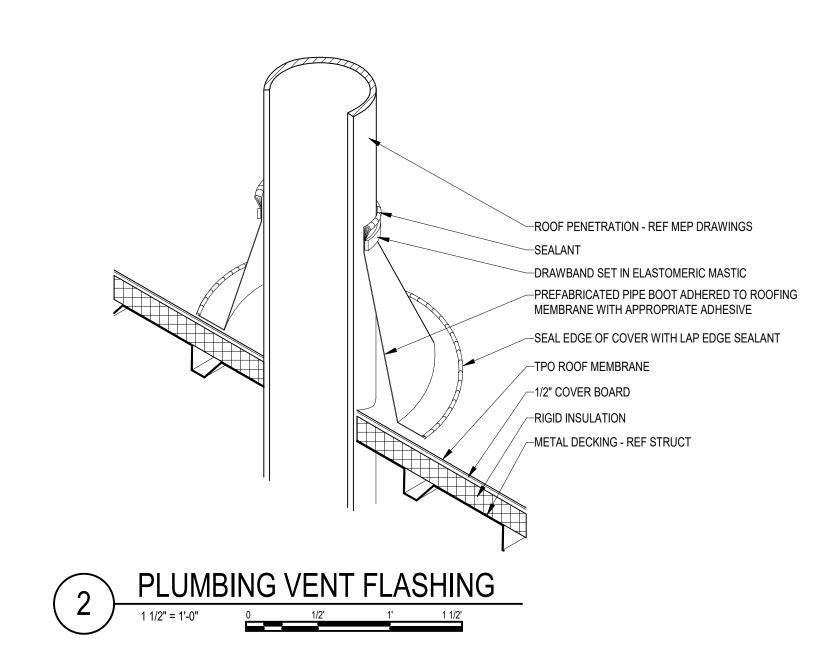
ROOF DECK - REF STRUCT

-MTL DECKING - REF STRUCT

T.O . JOIST/BEAM (BEYOND)

—TPO ROOFING ON COVER BOARD ON RIGID INSULATION ON MTL





STRAINER - REF MECH-

COMPRESSION RING @ -

PRESSURE TREATED 2X ——BLOCKING

**ROOF DRAIN** 

COMPRESSION RING @ —

OVERFLOW ROOF DRAIN FLOW

—TPO ROOFING MEMBRANE

-WATER CUT OFF MASTIC

- MTL DECKING - REF STRUCT

T.O . JOIST/BEAM (BEYOND)

DECK CLAMP-

TPO ROOFING ON COVER BOARD
ON RIGID INSULATION ON MTL
ROOF DECK - REF STRUCT
LINE IS TO BE 2" ABOVE
TYPICAL ROOF DRAIN FLOW
LINE

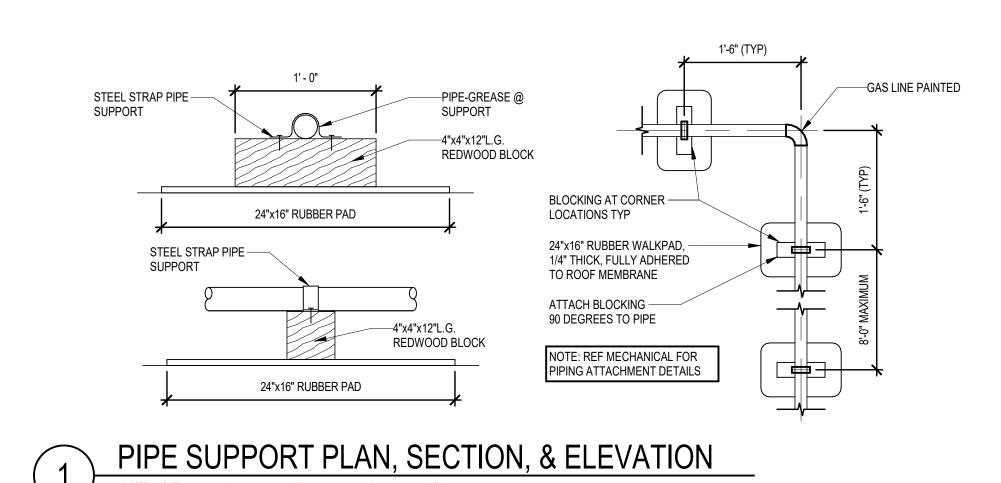
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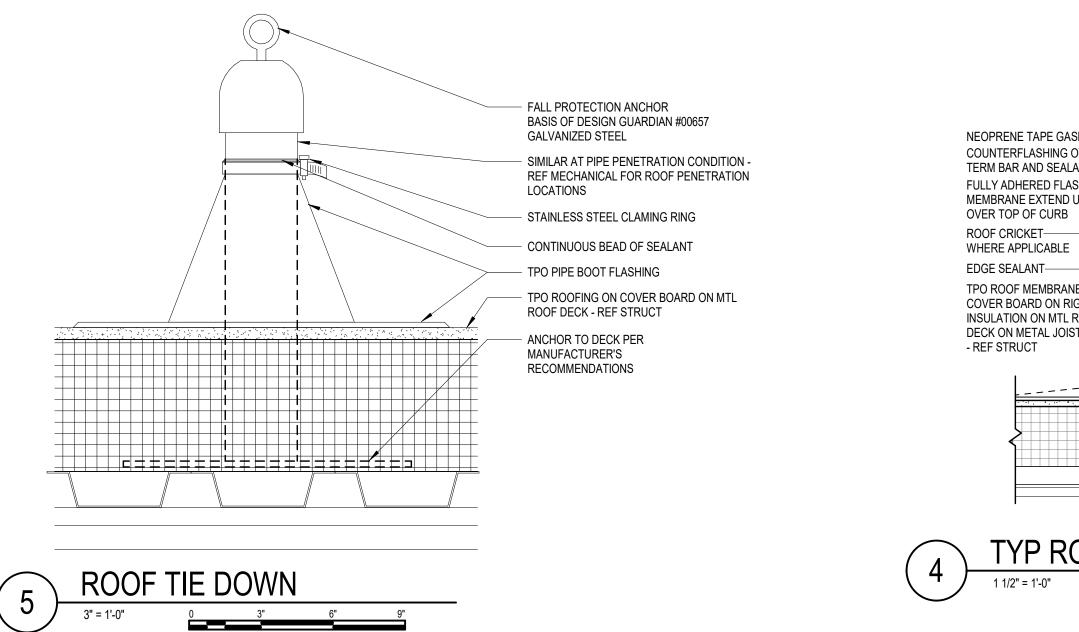
COMPRESSION RING @ -

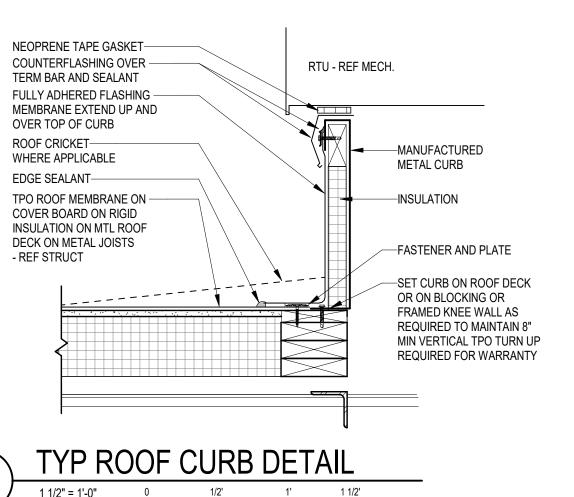
PRESSURE TREATED 2X — BLOCKING

DECK CLAMP-

ROOF DRAIN

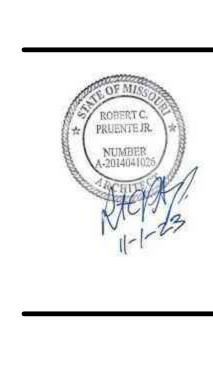


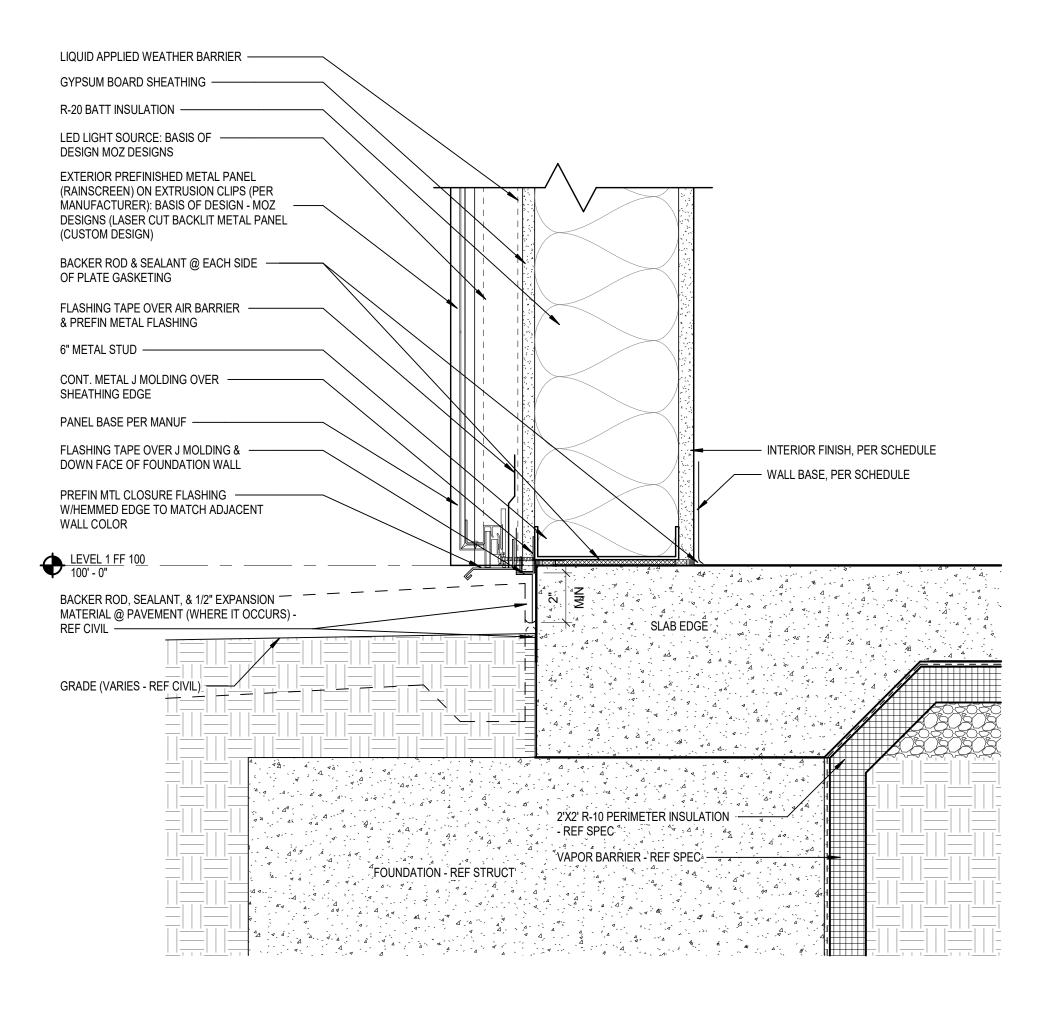




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BASE PER SCHED

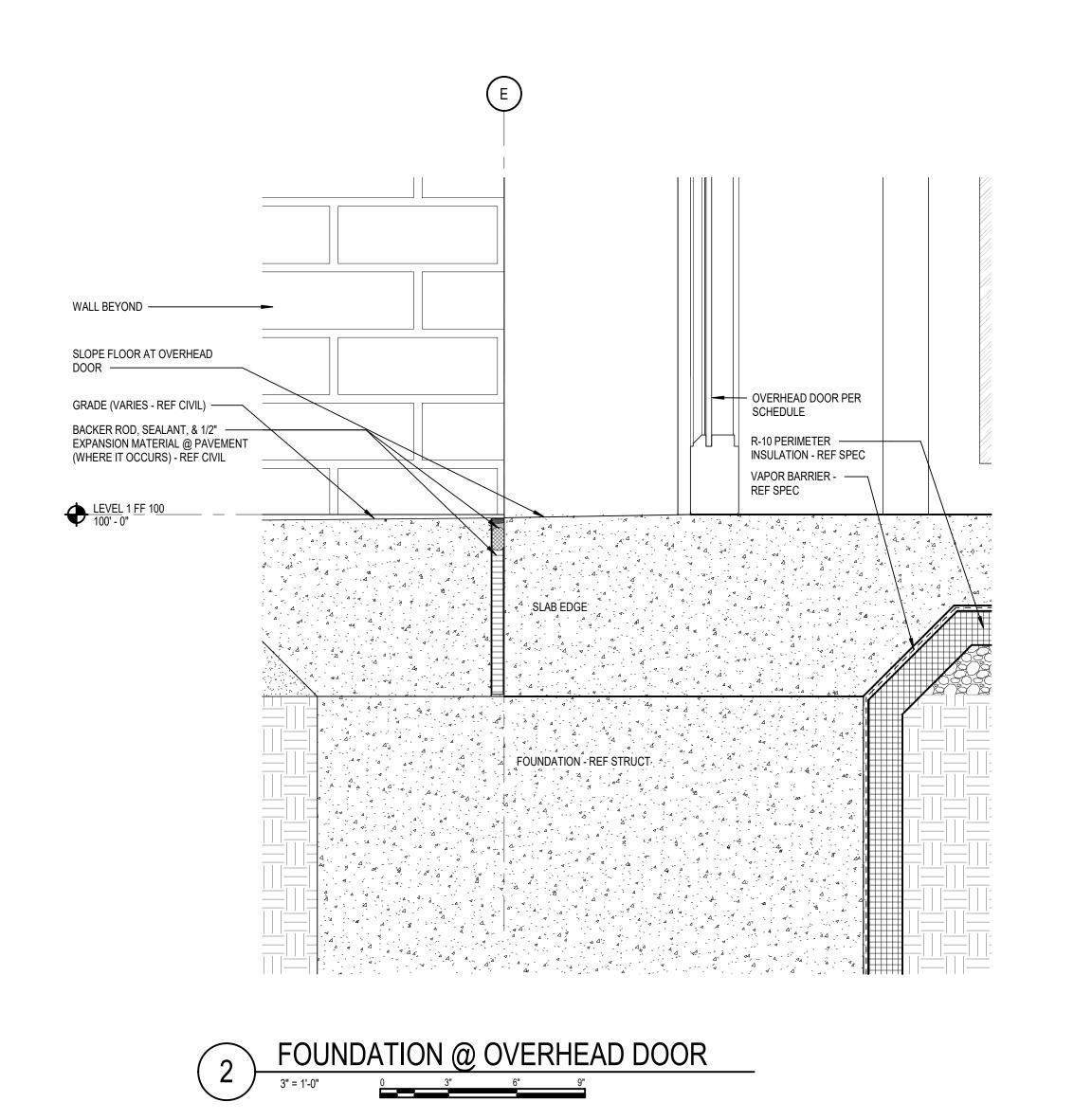
R-10 PERIMETER ———

INSULATION - REF SPEC

WEEP VENTS - REF SPECS -----

VAPOR BARRIER - REF SPEC -----

SLAB EDGE



REFERENCE ELEVATIONS FOR BRICK ----

ADJUSTABLE BRICK TIES & LADDER REINFORCEMENT, REF SPECS

ADJUSTABLE BRICK TIES & LADDER -

THRU WALL FLASHING W/8" MIN ——

VERTICAL LEG LAP OVER DRIP EDGE

WEATHER BARRIER OVER CMU OVER TOP OF —

FOOTING AND DOWN FRONT FACE OF FOOTING;

GROUT CAVITY BELOW THRU WALL FLASHING —

PREFIN MTL DRIP EDGE W/HEMMED EDGE ----

BACKER ROD, SEALANT, & 1/2" EXPANSION ———

ADHEARED TO MASONRY; WEEPS AND

MATERIAL @ PAVEMENT (WHERE IT

GRADE (VARIES - REF CIVIL) -----

OCCURS) - REF CIVIL

FLASHINGS TO BE 4" ABOVE GRADE MIN

REINFOCEMENT - REF SPECS

WRAP @ OPENINGS - TYP

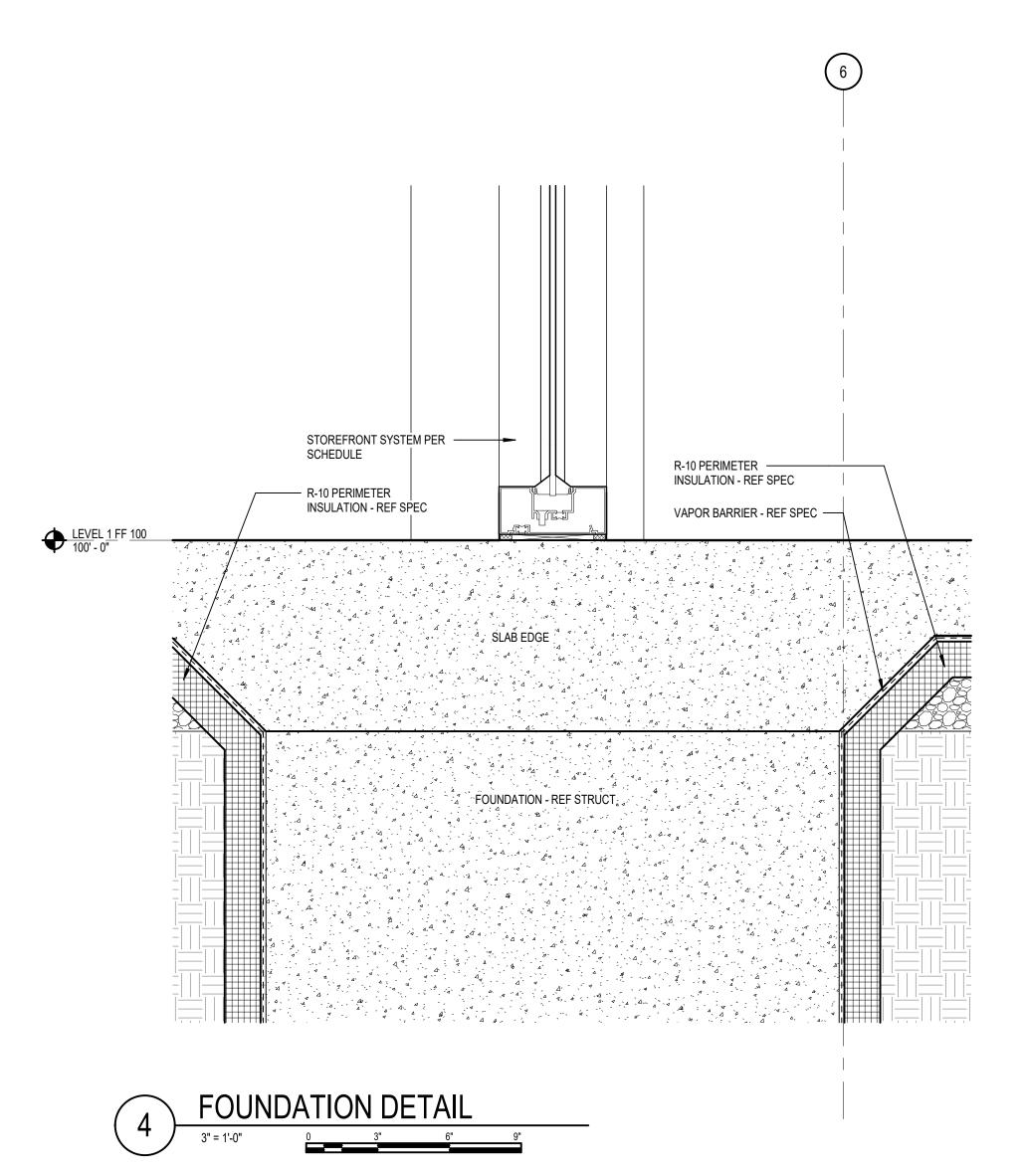
FULL & WHERE BELOW GRADE

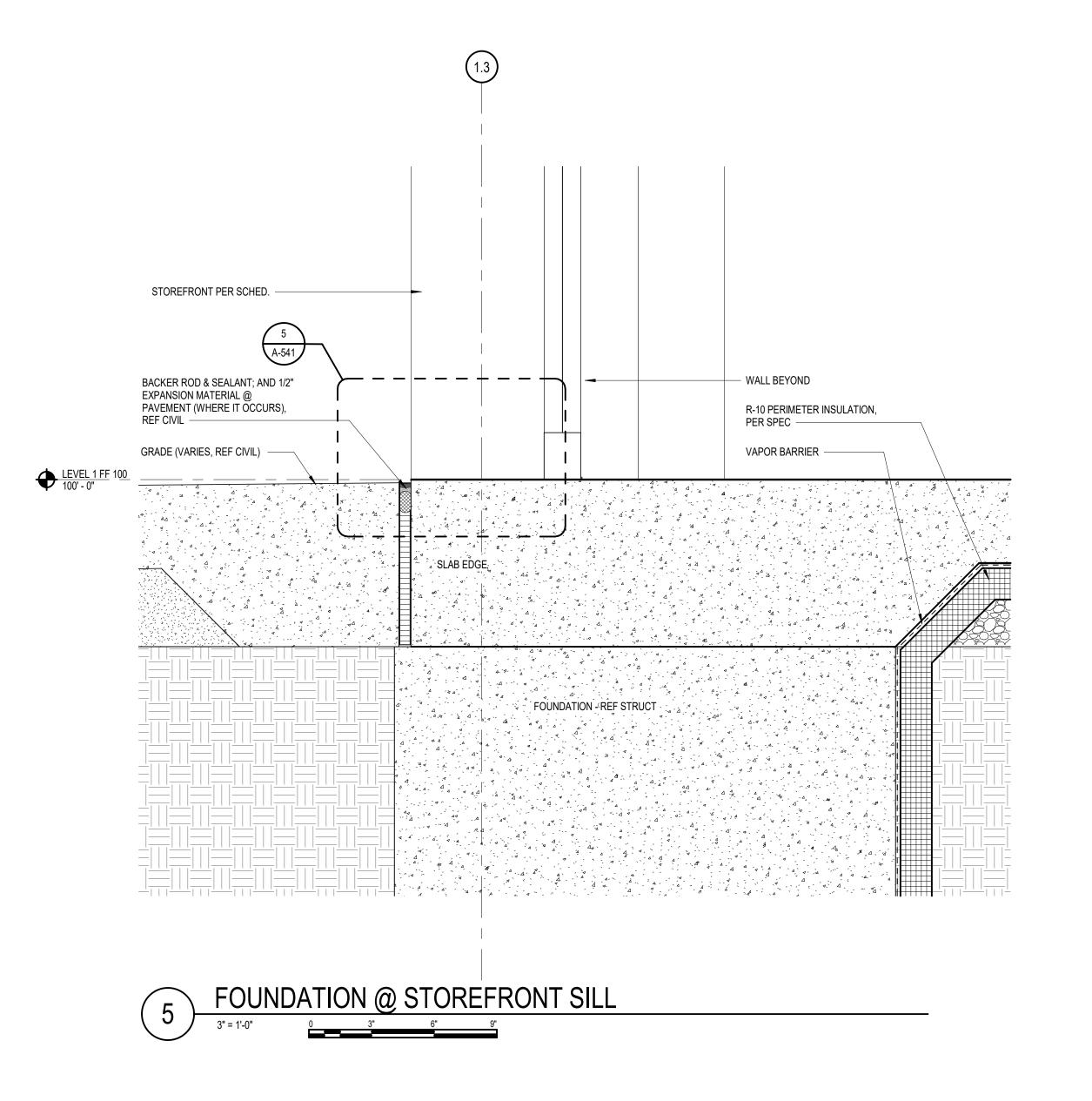
ACCENT LOCATIONS

8" CMU -----

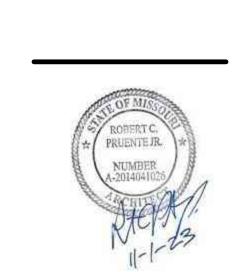
EXTERIOR BRICK

MORTAR NET ----





$\triangle$	DESCRIPTION	DATE
PROJEC <sup>*</sup>	ΓNO:	18225R21006
STATUS:		PERMIT SET
DATE:		11/01/2023
DRAWN	BY:	DRWN
CHECKE	D BY:	CHKD
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DETAILS		



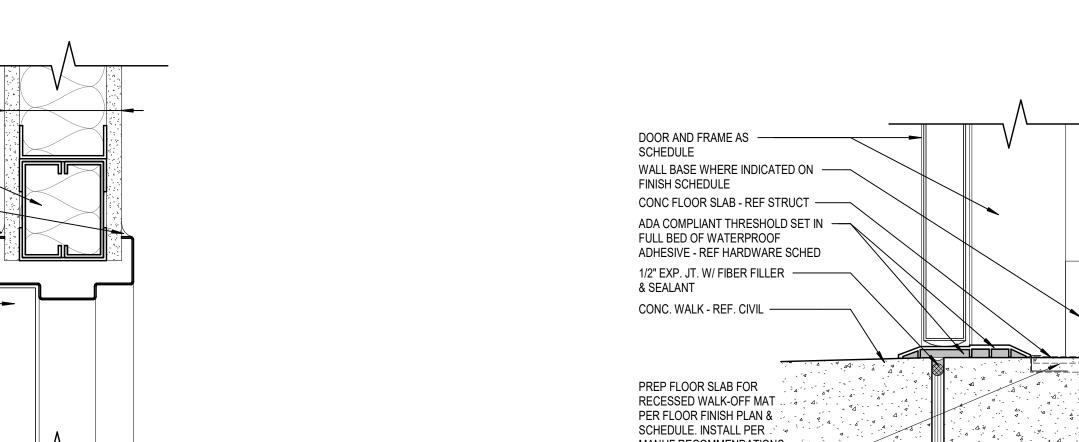


# 

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DOOR/ STOREFRONT **DETAILS** 

A-541



EXTERIOR BRICK & CMU -

BOND BEAM LINTEL -

THRU WALL FLASHING -

AIR/WEATHER BARRIER - -

WEEP VENTS AT HEAD
JOINTS @ 24" O.C. MAX OVER
THRU-WALL FLASHING

WRAP INSIDE OPENINGS

STEEL ANGLE; PAINT - REF STRUCT

PREFIN MTL DRIP EDGE W/ HEMMED EDGES; SEALANT BELOW DRIP

BACKER ROD & SEALANT -@ PERIMETER EACH SIDE

BULLNOSE LINTEL

SCHEDULED

DOOR AND FRAME AS

GROUT FRAME FULL ----

BRICK RETURN (BEYOND) -

EXTERIOR BRICK ———

AIR/WEATHER BARRIER - -

ADJUSTABLE BRICK TIES & -

LADDER REINFORCEMENT

EXTERIOR BRICK RETURN -

3/4" PRESURE/FIRE

STL COLUMN, REF STRUCT -

WEATHER/AIR BARRIER -

BACKER ROD & SEALANT, EA SIDE —

STOREFRONT AS SCHED

**BREAK METAL** 

TREATED PLYWD

SHEATHING —

BACKER ROD & SEALANT @ PERIMETER EACH SIDE

GROUT FRAME FULL ———

BULLNOSE CMU CORNER —

DOOR AND FRAME AS

SCHEDULED

RIGID INSULATION ——

REF SPECS

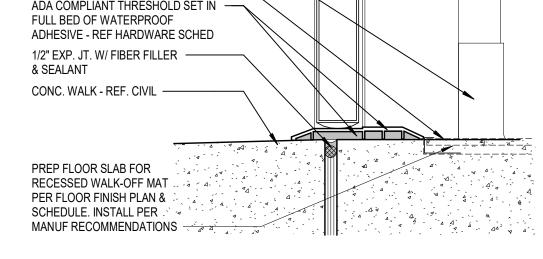
TO WALL

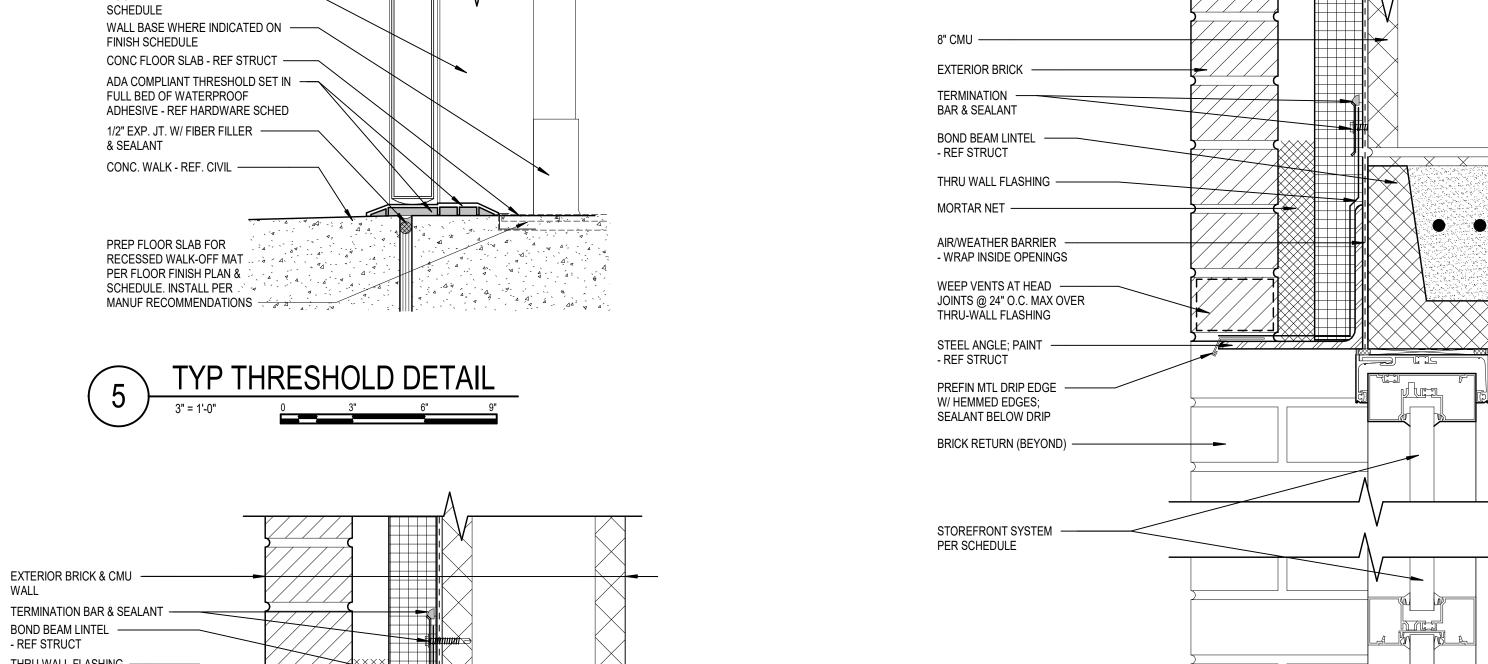
WRAP INSIDE OPENINGS

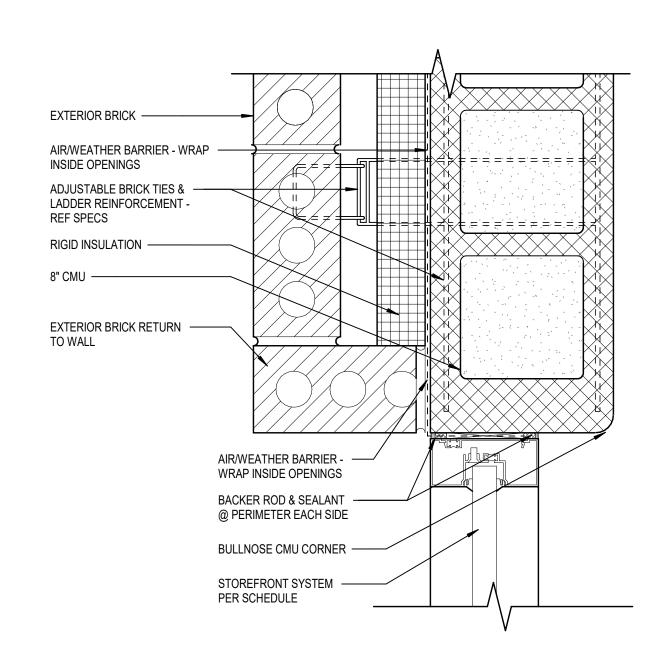
- REF STRUCT

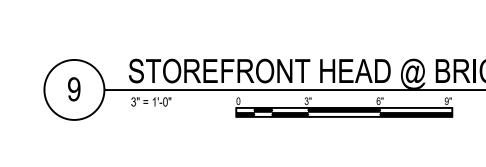
MORTAR NET ---

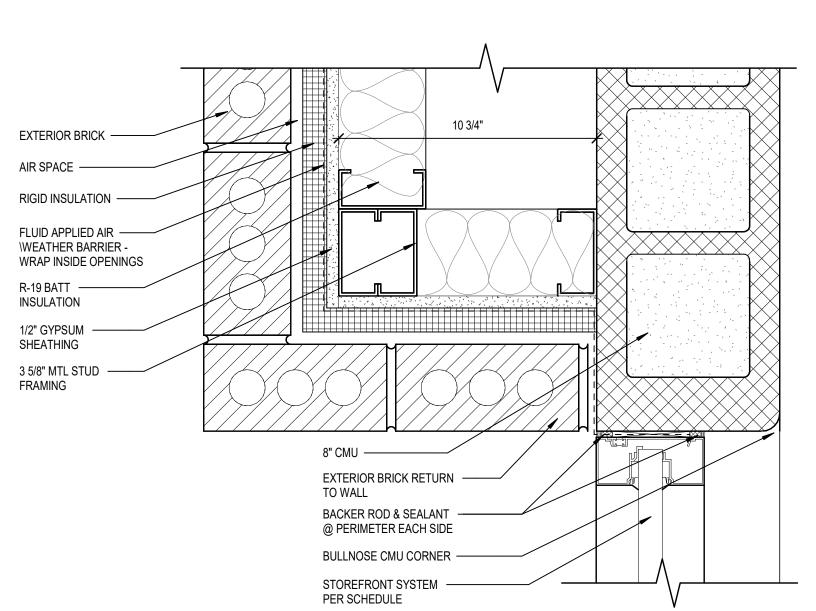
WALL

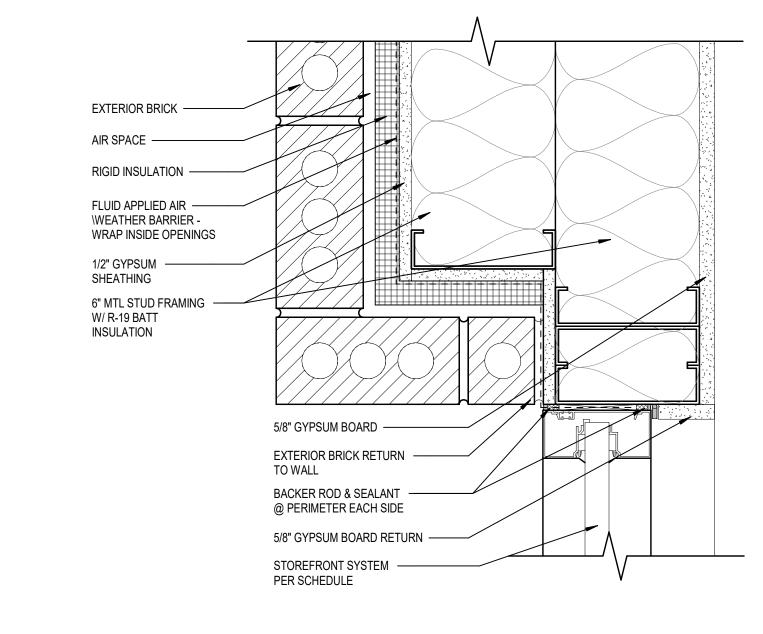


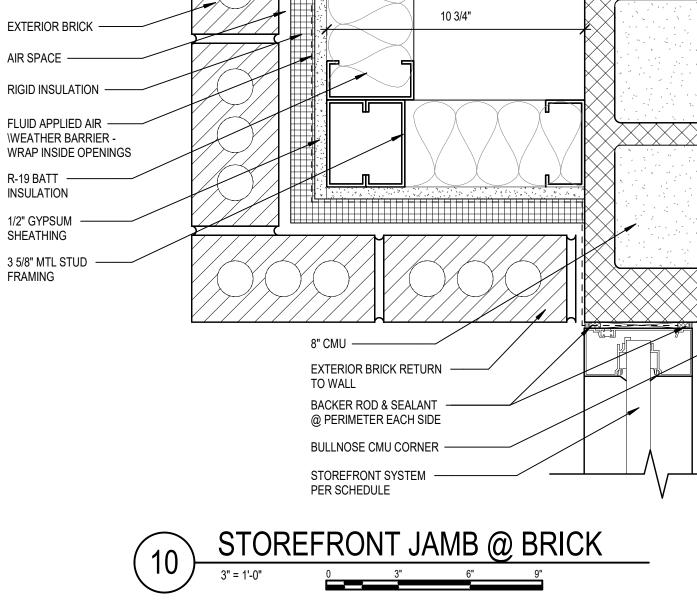


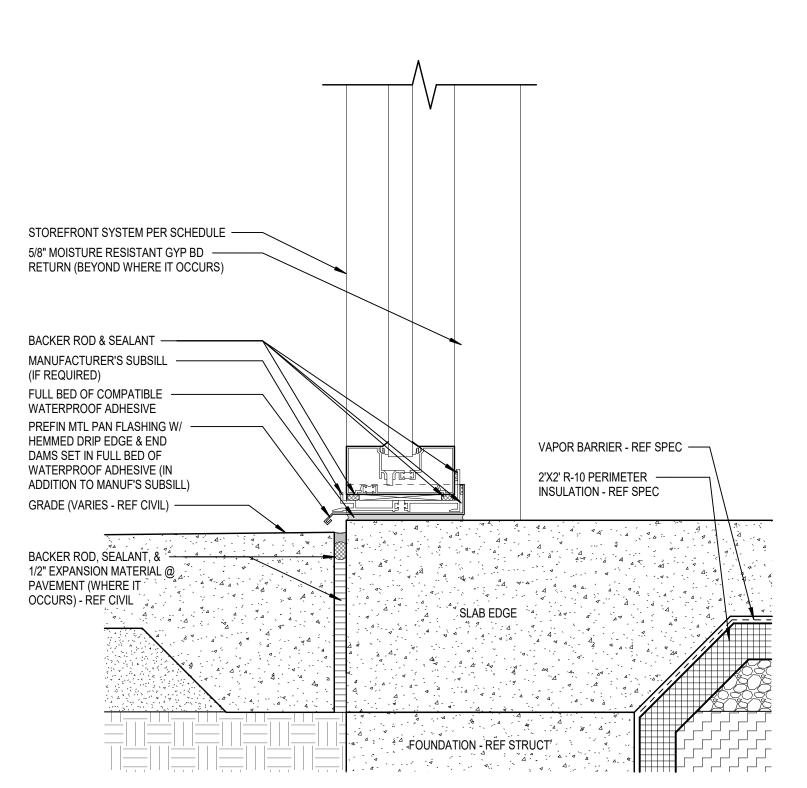


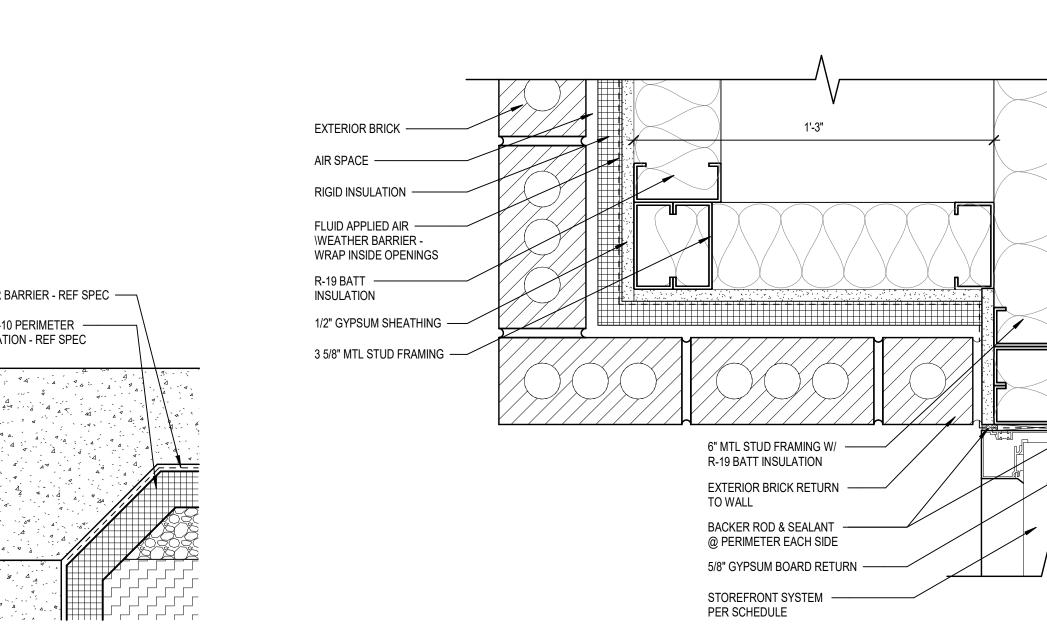


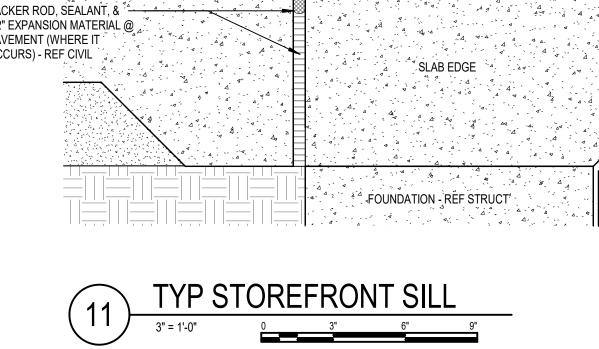


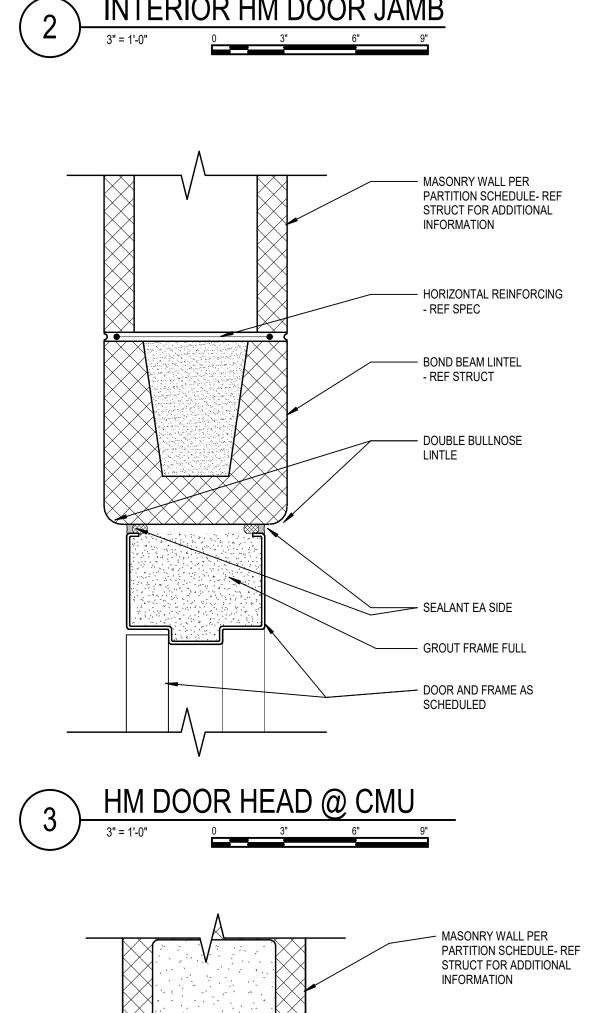












WALL PER PARTITON -

SCHEDULE

HEAD FRAMING -REF STRUCT

SEALANT EACH -

DOOR AND FRAME -

WALL PER PARTITON -

SCHEDULE

JAMB FRAMING -

SEALANT EACH -

REF STRUCT

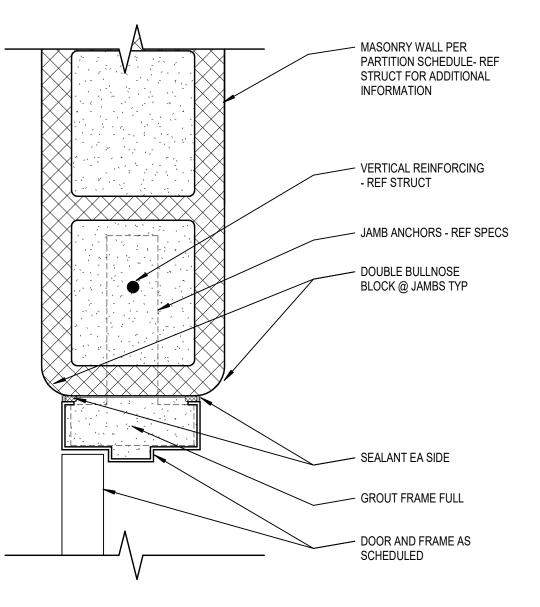
GYP FRAME —

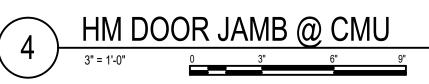
ANCHORS - REF SPECS

DOOR AND FRAME AS SCHEDULED

SIDE

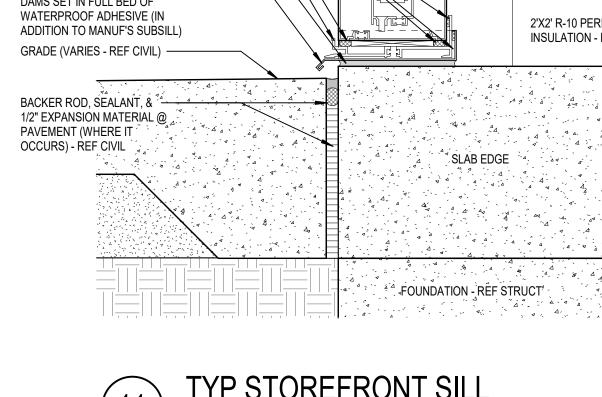
AS SCHEDULED







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6" MTL STUD FRAMING W/

R-19 BATT INSULATION

THRU WALL FLASHING —

HEADER - REF STRUCT —

AIR/WEATHER BARRIER -- WRAP INSIDE OPENINGS

WEEP VENTS AT HEAD -JOINTS @ 24" O.C. MAX OVER THRU-WALL FLASHING

STEEL ANGLE; PAINT - REF STRUCT

PREFIN MTL DRIP EDGE -W/ HEMMED EDGES;

BRICK RETURN (BEYOND) -

5/8" GYPSUM BOARD RETURN

SEALANT BELOW DRIP

5/8" GYPSUM BOARD -

STOREFRONT SYSTEM -PER SCHEDULE

EXTERIOR BRICK —

AIR/WEATHER BARRIER

- WRAP INSIDE OPENINGS

1/2" GYPSUM SHEATHING -

EXTERIOR BRICK RETURN — TO WALL

5/8" GYPSUM BOARD RETURN -

BACKER ROD & SEALANT @ PERIMETER EACH SIDE

STOREFRONT SYSTEM -PER SCHEDULE

RIGID INSULATION —

6" MTL STUD -

FRAMING W/ R-19 BATT INSULATION

JAMB FRAMING -REF STRUCT

STOREFRONT SYSTEM -

GYPSUM CORNER BEAD -

BACKER ROD & SEALANT -

FULL BED OF COMPATIBLE

WATERPROOF ADHESIVE

PREFIN MTL PAN FLASHING W/

HEMMED DRIP EDGE & END

MANUFACTURER'S SUBSILL

(IF REQUIRED) ROWLOCK SILL —

MORTAR JOINT -

EXTERIOR BRICK -

RIGID INSULATION —

AIR/WEATHER BARRIER -

- WRAP INSIDE OPENINGS

1/2" GYPSUM SHEATHING -

6" MTL STUD FRAMING W/ -

R-19 BATT INSULATION

5/8" GYPSUM BOARD -

DAMS SET IN FULL BED OF WATERPROOF ADHESIVE (IN ADDITION TO MANUF'S SUBSILL)

PER SCHEDULE

EXTERIOR BRICK -

TERMINATION -BAR & SEALANT

MORTAR NET -

STOREFRONT DOOR JAMB @ LONGBOARD

BACKER ROD & SEALANT — MANUFACTURER'S SUBSILL -(IF REQUIRED) FULL BED OF COMPATIBLE -WATERPROOF ADHESIVE CONCRETE SLAB - REF STRUCT -

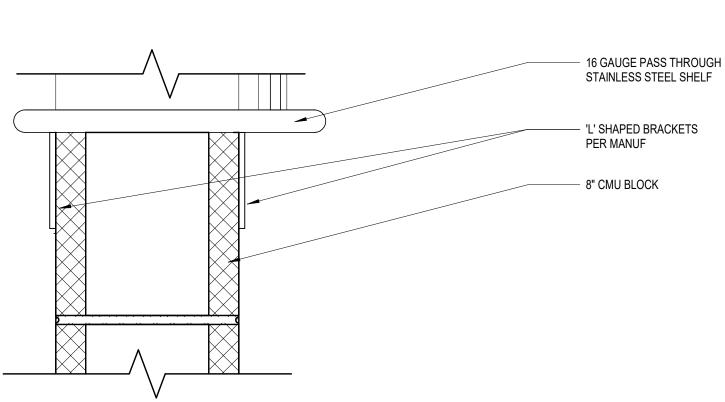
STOREFRONT SYSTEM PER ———

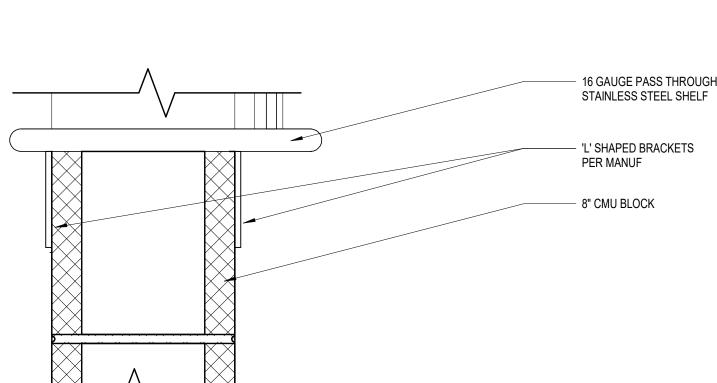
8" CMU BLOCK (PER SCHED) — COILING DOOR FRAME, PER MANUF COILING DOOR PER SCHED -SILL BELOW -

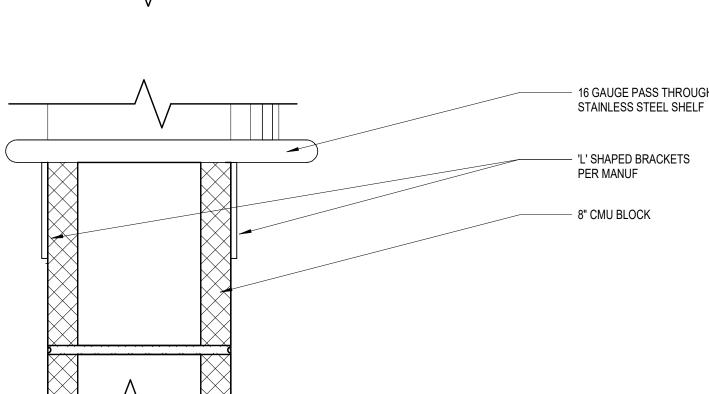
- 8" CMU BLOCK COILING DOOR HEAD & SILL DTL

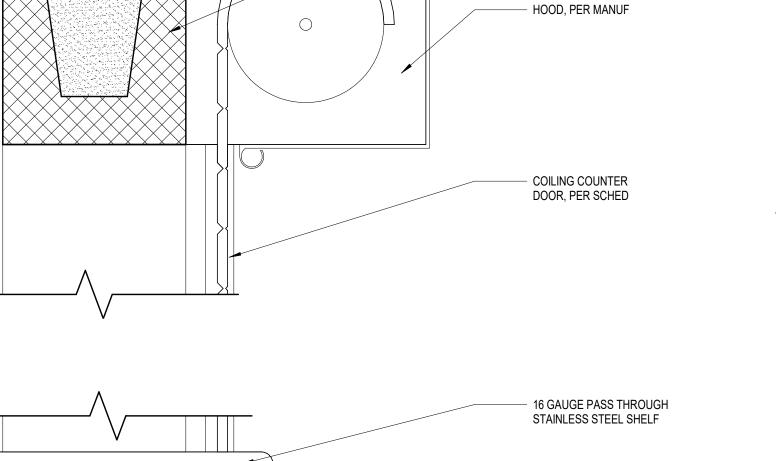
3" = 1'-0"

9"



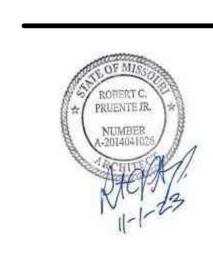






- 8" CMU BLOCK

BOND BEAM, PER STRUCT



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**DETAILS** 

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BACKER ROD & SEALANT DOOR PER SCHEDULE -DOOR PER -SCHEDULE

BACKER ROD & SEALANT

@ PERIMETER EACH SIDE

JAMB TRIM PER FIBER —

6" MTL STUD FRAMING W/

LONGBOARD EXTERIOR

1/2" GYPSUM SHEATHING

AIR/WEATHER BARRIER -- WRAP INSIDE OPENINGS

RIGID INSULATION ———

STEEL COLUMN - REF

3/4" FURRING CHANNEL —

5/8" GYPSUM BOARD ----

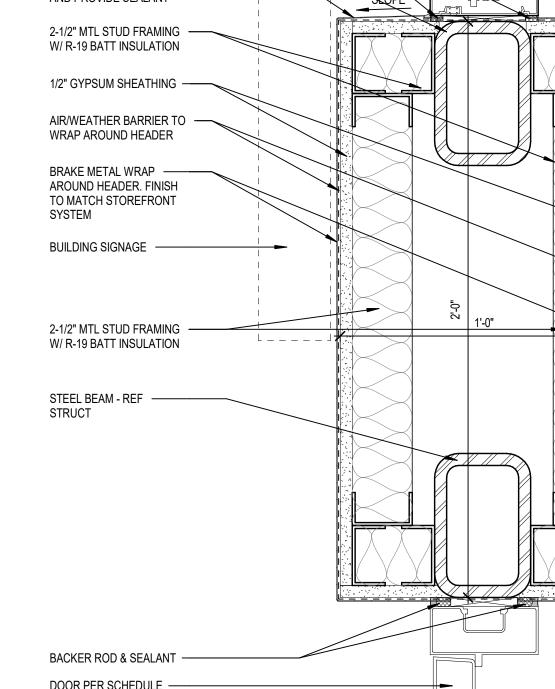
STRUCT

R-19 BATT INSULATION

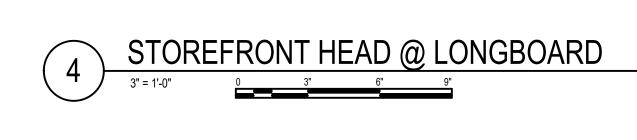
CEMENT PANEL

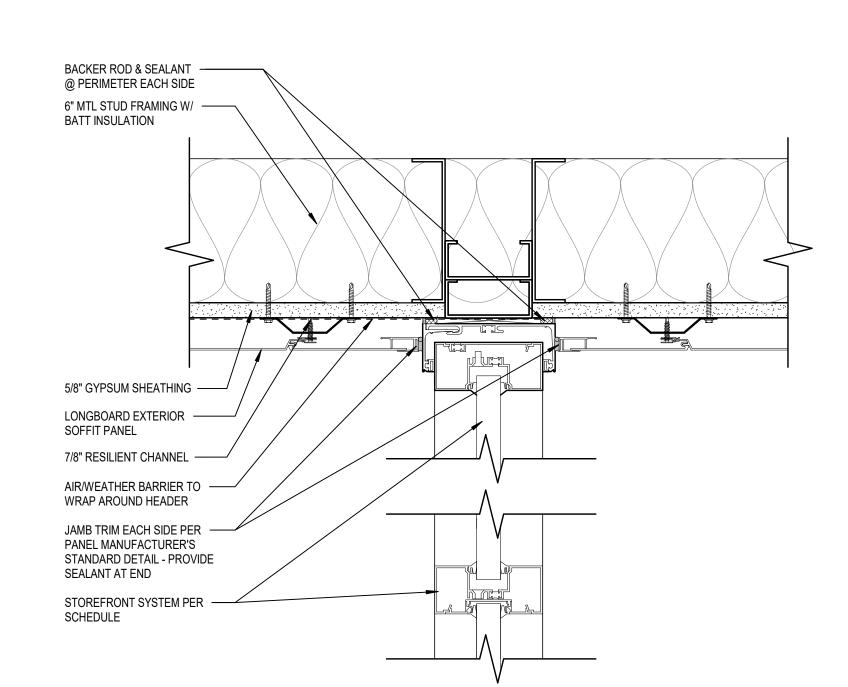
MANUFACTURER'S

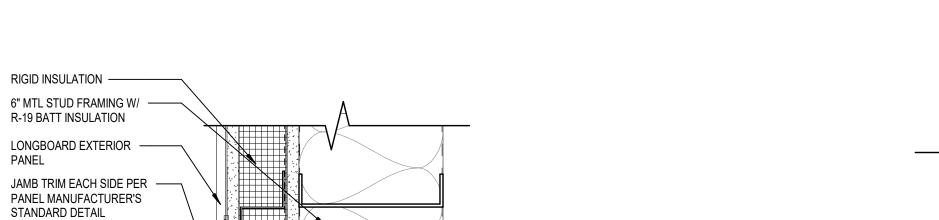
STANDARD DETAIL



STOREFRONT SYSTEM -PER SCHEDULE BACKER ROD & SEALANT -STEEL BEAM - REF ----PROVIDE MIN SLOPE TO -BRAKE METAL FOR DRAINAGE AND PROVIDE SEALANT 







BACKER ROD & SEALANT -@ PERIMETER EACH SIDE

DOOR PER SCHEDULE -

1/2" GYPSUM SHEATHING -

AIR/WEATHER BARRIER —

FIBER CEMENT SIDING -

AIR/WEATHER BARRIER

- WRAP INSIDE OPENINGS

1/2" GYPSUM SHEATHING -

RIGID INSULATION —

6" MTL STUD ---

FRAMING W/ R-19 BATT INSULATION

JAMB FRAMING -REF STRUCT

BRAKE METAL L-TRIM PER MANUF. FINISH TO

MATCH STOREFRONT

BACKER ROD & SEALANT

@ PERIMETER EACH SIDE

STOREFRONT SYSTEM - PER SCHEDULE

5/8" GYPSUM BOARD RETURN

SOUND ATTENUATION BLANKET -

PARTITION PER SCHED

BACKER ROD & SEALANT @ PERIMETER EACH SIDE

STOREFRONT SYSTEM PER SCHEDULE

CORNER BEAD -

SYSTEM

SEALANT

ON Z-CLIPS

STOREFRONT DOOR JAMB @ LONGBOARD

25' - 9"

LIMITING HEIGHT

9' - 8"

LIMITING HEIGHT 10' - 3" 11' - 3"

> 14' - 3" 15' - 6" 17' - 0" 18' - 6"



USE THESE CHARTS TO DETERMINE THE REQUIRED STUD GAUGE FOR THE VARIOUS PARTITION TYPES. REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR EXTERIOR WALL AND/OR LIGHT GAUGE (CFMF) REQUIREMENTS. REFER TO STRUCTURAL FOR ADDITIONAL REQUIREMENTS. AT GENERAL CONTRACTORS OPTION STUD GAUGES MAY BE ENGINEERED BY A REGISTERED PROFESSIONAL IN THE STATE OF THIS PROJECT. ABOVE CEILING BRACING (@ NOT LESS THAN 4' - 0" OC) IS PERMITTED FOR NON-FIRE RATED PARTITIONS TO HELP REDUCE THE UNBRACED LENGTH OF PARTITON. PROVIDE HORIZONTAL STUD CHANNEL STRONGBACK.

## PARTITION NOTES

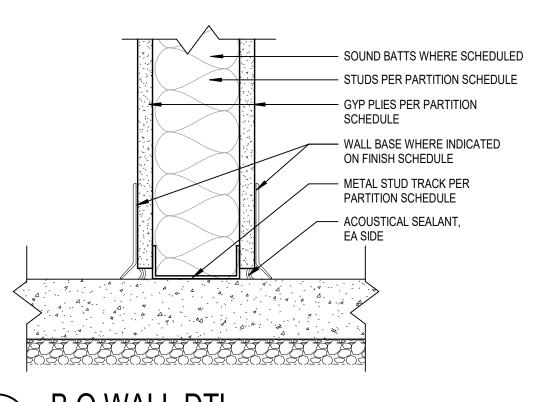
#	NOTES
1	STUD SPACINGS SHALL BE 16" O.C. UNLESS NOTED OTHERWISE.
2	REFER TO HNBRACED LENGTH/LIMITING HEIGHT CHARTS FOR STUD GAUGE REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR USE OF HEAVIER LIGHT GAUGE METAL FRAMING IN LIEU OF THOSE SHOWN.
3	REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS FOR CONCRETE MASONRY UNIT REINFORCING AND GROUTING.
4	REFER TO STRUCTURAL DRAWINGS FOR MASONRY DETAILS FOR ANCHORAGE OF TOP OF MASONRY WALLS TO STRUCTURE.
5	REFERENCE THE BUILDING CODE PLAN SHEETS FOR FIRE RATED AND SMOKE PARTITION INFORMATION.
6	PENETRATIONS, INCLUDING BUT NOT LIMITED TO PIPING, ELECTRICAL ACCESS, OR AIR DISTRIBUTION, SHALL MEET THE REQUIREMENTS OF UL DESIGN REQUIREMENTS FOR WALLS AND PENETRATION OF RATED WALLS. REFERENCE THE BUILDING CODE PLANS FOR ADDITIONAL INFORMATION
7	FOR ALL INSULATED CONCRETE FORM PARTITIONS, PROVIDE TYPE X GYPSUM BOARD ON EACH SIDE PER CHAPTER 26 OF THE INTERNATIONAL BUILDING CODE.
8	FOR AIR BARRIER SYSTEM REQUIREMENTS, REFER SPECIFICATIONS SECTION 07 25 00.00 06.
9	REFERENCE ENLARGED INTERIOR ELEVATIONS FOR ADDITIONAL WALL FINISH INFORMATION.

## GYPSUM SUBSTRATE GENERAL NOTES

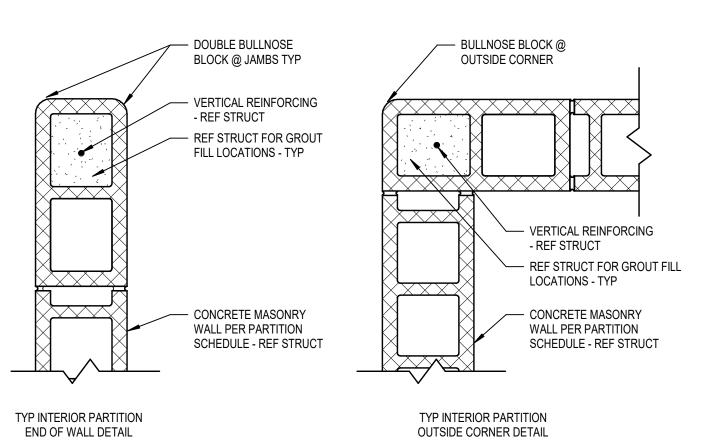
10 REFERENCE ROOM FINISH SCHEDULE FOR WALL SUBSTRATE INFORMATION.

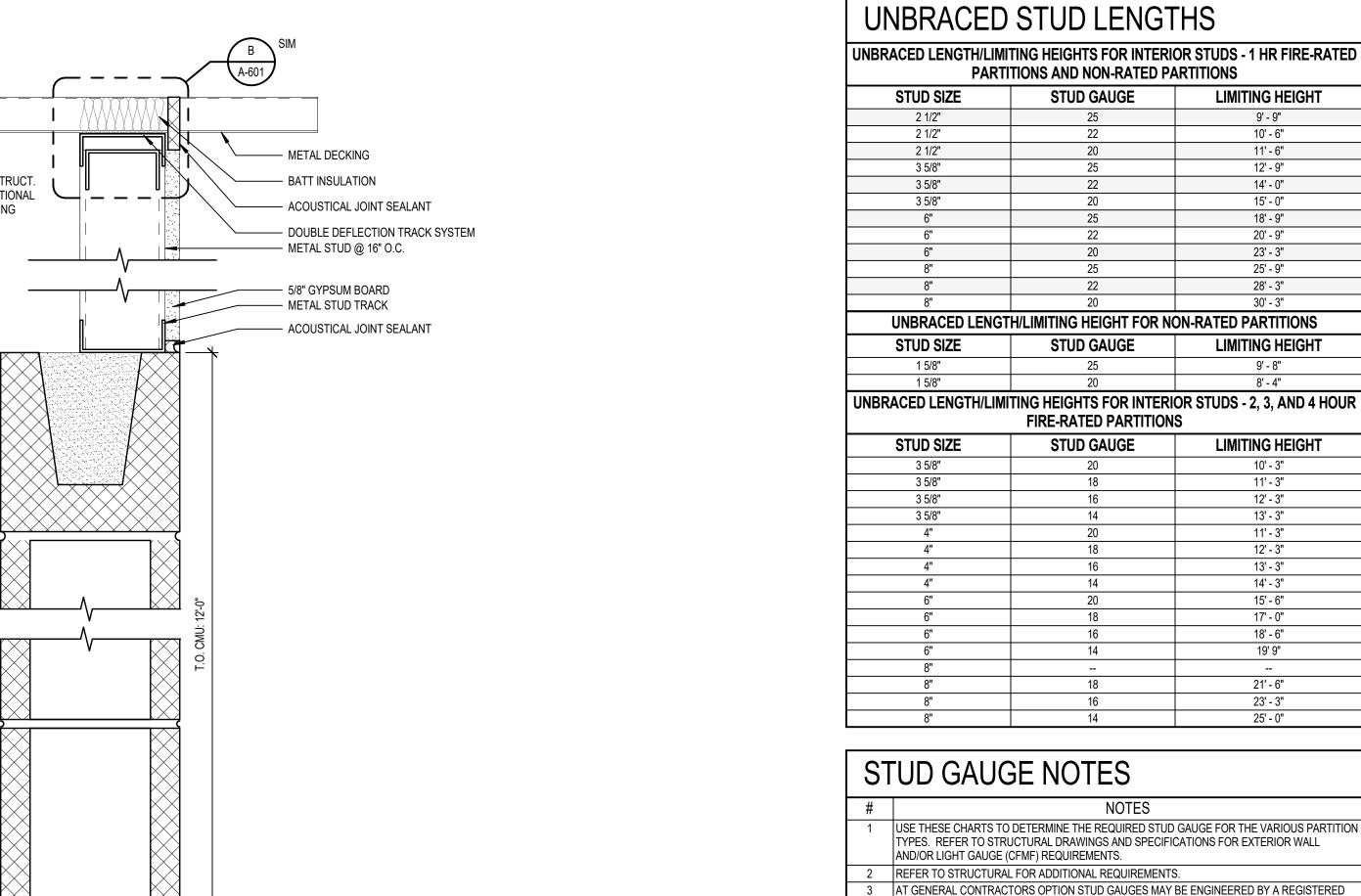
## TYPICAL WALL SUBSTRATE:

ALL GYP ON THE PROJECT IS TO BE MOISTURE RESISTANT GYP BD. MOST WALLS ON THE PROJECT ARE PRONE TO MOISTURE AND THE OWNER MAY NOT RUN THE AIR CONDITIONER WHEN THE BUILDING IS NOT IN USE OR OCCUPIED.









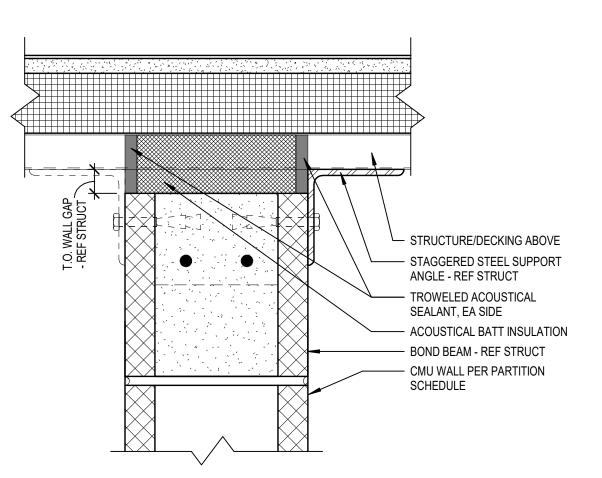
## 44 44 44 SECTION CONCRETE SLAB ON GRADE REF. STRUCTURAL CMU EDGE BELOW -5A 3 5/8" METAL STUD 7 5/8" CMU

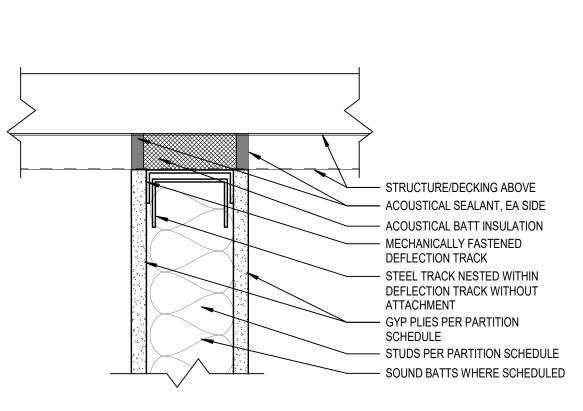
REF. TO STRUCT.

FOR ADDITIONAL

BRACING

## SERIES 5 PARTITION - NR





P	T.O. N	NTL ST	UD D	)TL
	3" = 1'-0"	0	3"	6"



- METAL DECKING

- BATT INSULATION

— ACOUSTICAL JOINT SEALANT

- CEILING AS SCHEDULED

WHERE APPLICABLE

— DOUBLE DEFLECTION TRACK SYSTEM

- ACOUSTICAL CEILING WALL ANGLE

- SOUND ATTENUATION BLANKETS BETWEEN STUD AND RUNNERS

- METAL STUD @ 16" O.C.

- 5/8" GYPSUM BOARD EACH SIDE

- METAL STUD TRACK

SECTION

ACOUSTICAL JOINT SEALANT

- CONCRETE SLAB ON GRADE

METAL DECKING

— BATT INSULATION

— ACOUSTICAL JOINT SEALANT

CEILING AS SCHEDULED

- CONCRETE SLAB ON GRADE

REF. STRUCTURAL

WHERE APPLICABLE

- ACOUSTICAL CEILING WALL ANGLE

REF. STRUCTURAL

1A 35/8" METAL STUD

1B 6" METAL STUD

STC 48

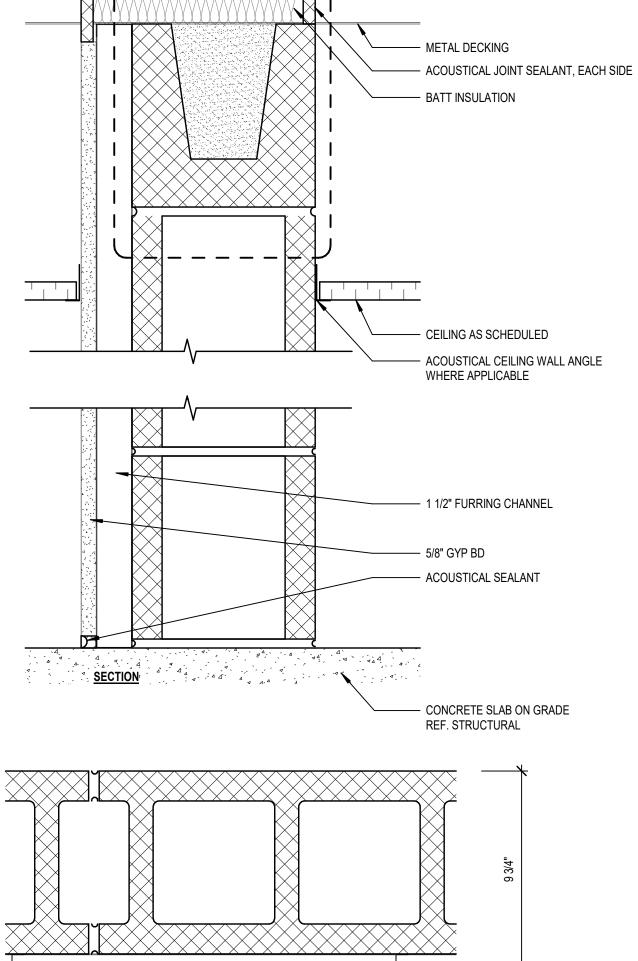
\	SERIES 3 PARTITION - 1HR
- 1	

3A 8" CMU

UL: U905

<u>PLAN</u>

SECTION A SECTION



4A 8" CMU w/ 1.5" FURRING

SERIES 4 PARTITION - NR

METAL DECKING

- BATT INSULATION

ACOUSTICAL JOINT SEALANT

- CEILING AS SCHEDULED

WHERE APPLICABLE

METAL STUD @ 16" O.C.

--- 5/8" GYPSUM BOARD

— METAL STUD TRACK

ACOUSTICAL JOINT SEALANT

— CONCRETE SLAB ON GRADE

REF. STRUCTURAL

2A 35/8" METAL STUD 중 명 있

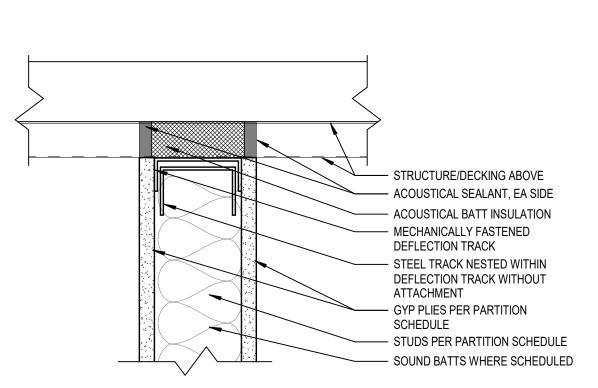
2B 6" METAL STUD

2C 2 1/2" METAL STUD

SERIES 2 PARTITION - NR

— DOUBLE DEFLECTION TRACK SYSTEM

ACOUSTICAL CEILING WALL ANGLE



TYP INTERIOR BULLNOSE CMU DETAILS

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△ DESCRIPTION DATE

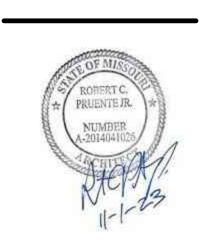
18225R21006

PERMIT SET

PROJECT NO:

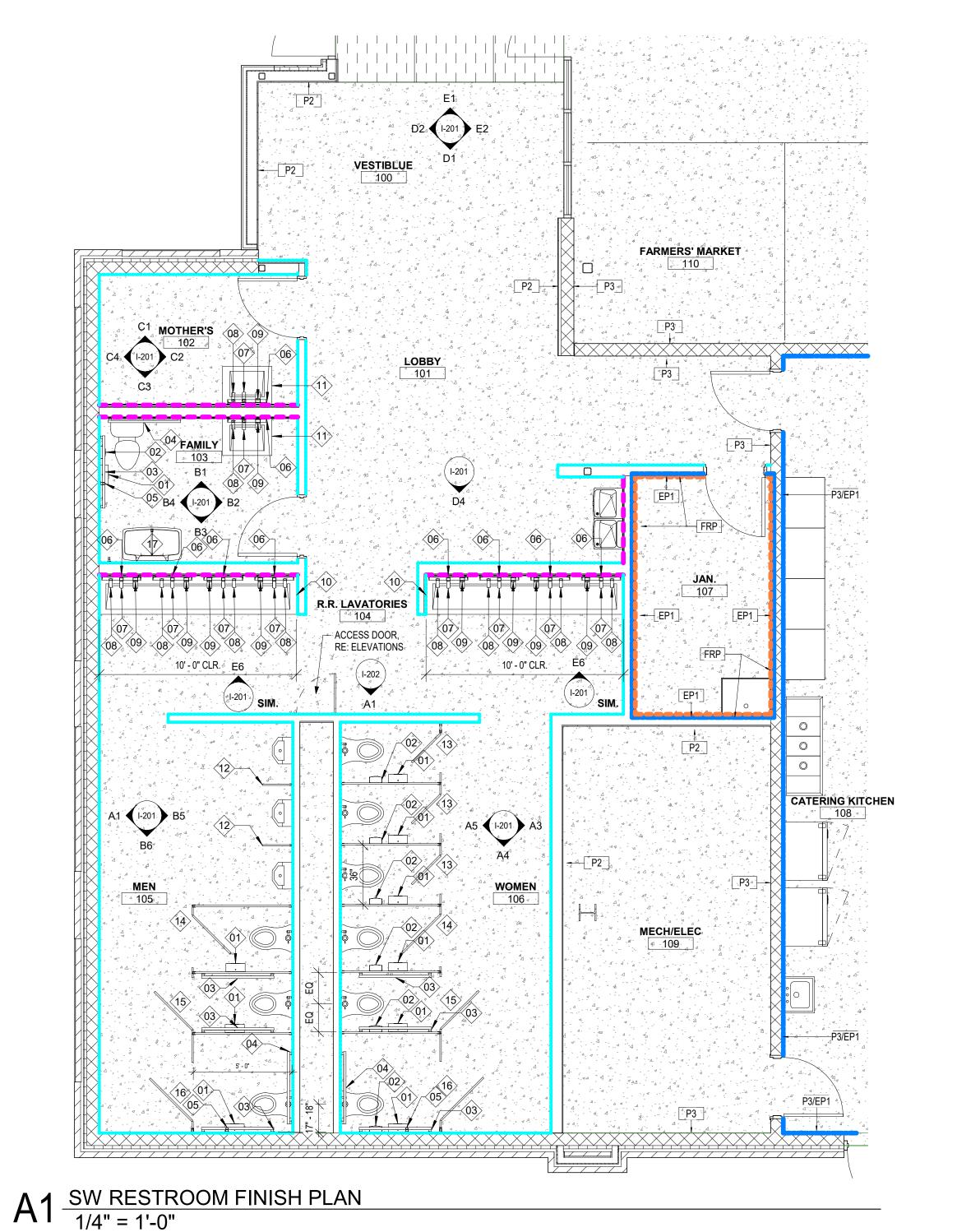
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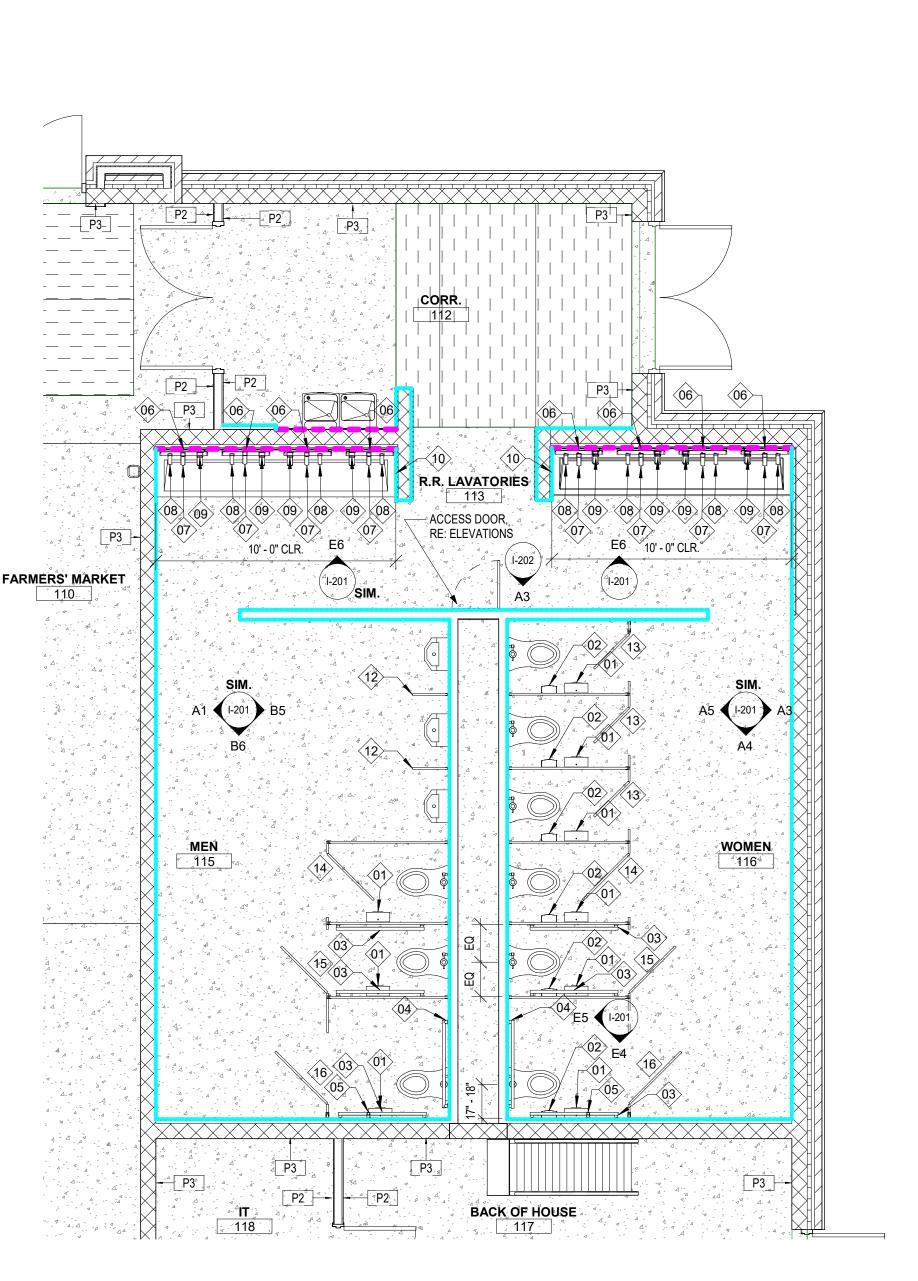




# EE'S SUMMIT - MARKET PLAZA

	N DATE
PROJECT NO:	18225R21006
STATUS:	PERMIT SET
DATE:	11/01/2023
DRAWN BY:	DRWN
CHECKED BY: CHKE	
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DOOR A STOREFF SCHEDI	RONT





A3 NE RESTROOM FINISH PLAN

1/4" = 1'-0"

# GENERAL NOTES: FLOOR FINISH PLANS

- RE: ARCHITECTURAL SHEETS FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
   RE: FINISH LEGEND, FINISH SCHEDULE, AND FLOOR FINISH PLANS FOR SPECIFIC FLOOR FINISH
- INFORMATION AND LOCATIONS.

  3. FLOOR FINISHES SHOWN ARE FOR ACCENT CLARIFICATION ONLY. RE: FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
- 4. INSTALL TRANSITION STRIPS AT ALL FLOOR FINISH MATERIAL CHANGES, UNLESS NOTED OTHERWISE.

GLMV Architecture, Inc.

Missouri State Certificate of Authority

#F00364807

SAM COLLINS - ARCHITECT

MO# A-2017002629

DATE: 11/1/2023 9:17:12 AM

- 5. RE: FINISH DETAILS SHEET FOR ADDITIONAL FINISH AND FLOOR TRANSITION CONDITIONS.
  6. FLOOR FINISH PATTERN SHALL BE CENTERED IN ROOM, UNLESS NOTED OTHERWISE.
  7. ALIGN ALL WALL TILE JOINTS WITH FLOOR TILE JOINTS, UNLESS NOTED OR SHOWN
- OTHERWISE.

  8. ALL CLOSETS & ALCOVES W/OUT A SPACE IDENTIFICATION NUMBER SHALL HAVE THE SAME FLOOR FINISHES AS ADJOINING SPACES.

  9. FLOOR FINISH MATERIAL &/ OR PATTERN SHALL BE INSTALLED UNDER TOE KICKS OF CASEWORK/ MILLWORK, UNDER OPEN COUNTERTOPS. & UNDER EQUIPMENT.
- CASEWORK/ MILLWORK, UNDER OPEN COUNTERTOPS, & UNDER EQUIPMENT.

  10. FLOOR MATERIAL / COLOR TRANSITIONS TO ALIGN WITH ROOM SIDE OF DOOR STOP, UNLESS NOTED OTHERWISE.

# WALL FINISH / WALL PROTECTION

- RE: ARCHITECTURAL SHEETS FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
   RE: FINISH LEGEND & FINISH SCHEDULE FOR SPECIFIC FINISH INFORMATION & LOCATIONS.
   CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING FOR WALL PROTECTION ATTACHMENT. THIS INCLUDES, BUT IS NOT LIMITED TO: HANDRAILS, TV MONITORS, BATHROOM ACCESSORIES, FIRE EXTINGUISHERS AND EQUIPMENT. RE: ROUGH CARPENTRY SPECIFICATION SECTION FOR CLARIFICATION.
- CONTRACTOR SHALL PROVIDE MANUFACTURER'S STANDARD ACCESSORY MOLDING OR TRIM FOR WALL PROTECTION ITEMS, UNLESS NOTED OTHERWISE.
   IF WALL IS LESS THAN 18" WIDE DO NOT PROVIDE HANDRAIL. HANDRAILS SHOULD STOP APPROXIMATELY 3" FROM THE OPEN SWING OF A DOOR. HANDRAILS SHOULD STOP APPROXIMATELY 3" FROM A CORNER GUARD.

# **INTERIOR FINISHES**

- RE: ARCHITECTURAL SHEETS FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
   RE: ARCHITECTURAL SHEETS FOR ACCESSIBILITY GUIDELINES.
   RE: I-SHEETS FOR ADDITIONAL CEILING, WALL, & FLOOR FINISH INFORMATION.
- HOLLOW METAL FRAMES SHALL RECEIVE SEMI-GLOSS FINISH. WHERE WALL COLOR IS
  DIFFERENT ON EACH SIDE OF THE HOLLOW METAL FRAME, PAINT FRAME TO MATCH CORRIDOR
  WALL, UNLESS NOTED OR SHOWN OTHERWISE.
   CONTINUE WALL FINISH AS SCHEDULED BEHIND EQUIPMENT.
- 6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CASEWORK FABRICATION AND INSTALLATION.
- INSTALLATION.
  7. ALL EXPOSED CASEWORK SURFACES SHALL BE FINISHED PLASTIC LAMINATE AS SCHEDULED, UNLESS NOTED OTHERWISE (U.N.O.)
- ALL PLASTIC LAMINATE DOOR AND DRAWERS TO RECEIVE 1MM PVC EDGEBAND AND ALL COUNTERTOPS TO RECEIVE 3MM PVC EDGEBANDING.
   ALL BACKSPLASH MATERIAL SHALL MATCH COUNTERTOP MATERIAL.
- 10. WHERE TWO MODULAR TILES (PORCELAIN, MARBLE, OR QUARRY) OF VARYING THICKNESSES MEET, THE SETTING BED FOR THE THINNER TILE SHALL BE BUILT UP TO ENSURE THAT THE FACES OF THE DIFFERENT TILES ARE FLUSH.
- 11. TRANSITION ALL WALL FINISHES/COLOR CHANGES AT INSIDE CORNERS, UNLESS NOTED OTHERWISE (U.N.O.)12. TRANSITION WALL BASE AT INSIDE CORNERS, U.N.O.
- TRANSITION WALL BASE AT INSIDE CORNERS, U.N.O.
   INSTALL METAL TRANSITION STRIP WHERE WALL TILE MEETS PAINTED GYP. BD. WALL IN ALL VERTICAL AND/ OR HORIZONTAL CONDITIONS, UNLESS NOTED OTHERWISE (U.N.O.)

# **CASEWORK**

- RE: FINISH LEGEND AND FINISH SCHEDULE FOR SPECIFIC FINISH INFORMATION AND LOCATIONS
   ALL MILLWORK / CASEWORK CONSTRUCTION SHALL MEET AWI PREMIUM STANDARDS, UNLESS NOTED OR SPECIFIED OTHERWISE.
- ALL EXPOSED MILLWORK / CASEWORK SURFACES SHALL BE FINISHED W/ PLASTIC LAMINATE TO MATCH ADJACENT PLASTIC LAMINATE SURFACES, UNLESS NOTED OTHERWISE.
   ALL CASEWORK INTERIORS SHALL BE WHITE MELAMINE, UNLESS NOTED OTHERWISE.
- ALL FILLER PANELS SHALL BE 1-1/2 INCH WIDE MINIMUM, FINISHED TO MATCH ADJACENT FINISH SURFACES, AND SCRIBED TO FIT ADJACENT WALL, UNLESS NOTED OTHERWISE.
   ALL BACKSPLASH FINISHES SHALL MATCH COUNTERTOP MATERIAL AND FINISH, UNLESS NOTED OTHERWISE. PLASTIC LAMINATE SIDE/BACKSPLASHES TO HAVE SELF EDGE LAMINATE, UNLESS
- NOTED OTHERWISE.

  7. CONTRACTOR SHALL APPLY CLEAR MILDEW RESISTANT SILICONE SEALANT WHERE
- BACKSPLASH MEETS WALL AND COUNTERTOP.

  8. THE UNDERSIDE OF COUNTERTOPS WITH KNEE OPENINGS, MUST HAVE A WHITE MELAMINE FINISH, UNLESS NOTED OTHERWISE.
- 9. WATER AND SUPPLY DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.

# INTERIOR DETAILS

- RE: ARCHITECTURAL SHEETS FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
   RE: INTERIOR ELEVATIONS AND ARCHITECTURAL SHEETS FOR ACCESSIBILITY GUIDELINES FOR
- MOUNTING HEIGHTS OF FIXTURES AND ACCESSORIES.

  3. RE: FINISH LEGEND AND FINISH SCHEDULE FOR SPECIFIC FINISH INFORMATION AND LOCATIONS.
- RE: FINISH FLOOR PLANS FOR ADDITIONAL WALL FINISH CLARIFICATIONS.
   RE: I-SHEETS FOR REVEAL AND CONTROL JOINT DETAILS, WALL PROTECTION DETAILS, AND FLOOR TRANSITION / WALL BASE DETAILS.
- RE: I-SHEETS FOR TOILET ACCESSORY SCHEDULE.
   PROVIDE GYPSUM BOARD CONTROL JOINTS AT DOOR HEADERS WHERE EXPOSED/FINISHED
  GYPSUM BOARD EXCEEDS 30 FEET (TYP.), UNLESS SHOWN OTHERWISE. JOINTS TO BE LINED UP
  WITH BOTH SIDES OF DOOR FRAMES FOR DOORS 4'-0" AND OVER AND ALL DOORS THAT ARE
- LEAD LINED. CONTROL JOINTS NOT NECESSARY AT WALLS WHERE ACOUSTICAL WALLCOVERING IS SPECIFIED.

  8. CONTINUE WALL FINISH AS SCHEDULED BEHIND ALL FURNITURE AND EQUIPMENT, INCLUDING
- UNDER OPEN COUNTERS.

  9. TRANSITION ALL WALL AND BASE FINISHES, AND/ OR COLOR CHANGES AT INSIDE CORNERS,
- UNLESS NOTED OTHERWISE. CONSULT ARCHITECT FOR CLARIFICATION, IF NECESSARY.

  0. CONTINUE WALL BASE AT ALL WALLS, FURRED OUT COLUMNS & COLUMN COVERS, AND AT ALL
- CASEWORK TOE KICKS, SIDE PANELS, AND UNDER OPEN COUNTERS, UNLESS NOTED OTHERWISE.
- 11. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO MILLWORK/ CASEWORK FABRICATION & INSTALLATION.
- 12. CONTRACTOR SHALL PROVIDE & INSTALL GROMMETS AT 48" O.C. MAX. AT ALL WORK STATIONS WITH OPEN KNEE SPACE. COORDINATE LOCATIONS DIRECTLY WITH ELECTRICAL/DATA DRAWINGS FOR OUTLET LOCATIONS. COLOR TO BE SELECTED BY ARCHITECT.
- DRAWINGS FOR OUTLET LOCATIONS. COLOR TO BE SELECTED BY ARCHITECT.

  13. CONTRACTOR SHALL PROVIDE COUNTERTOP BRACKETS AT OPEN KNEE SPACES WIDER THAN
- 42" (TYP.). CENTER IN OPEN AREA AND PAINT TO MATCH WALL COLOR, UNLESS NOTED OR SHOWN OTHERWISE.14. ALIGN ALL WALL TILE JOINTS WITH FLOOR TILE JOINTS, UNLESS NOTED OR SHOWN
- 15. RE: EQUIPMENT DRAWINGS & SPECS. FOR EQUIPMENT ITEMS SHOWN DASHED, PROVIDED BY EQUIP. CONSULTANT AND/ OR SUPPLIED BY OWNER. COORDINATE WITH OTHER TRADES AS
- NECESSARY.

  16. MECH. & ELEC. SYMBOLS AND OUTLETS ARE SHOWN FOR REFERENCE ONLY. COORDINATE LOCATIONS WITH MEP DRAWINGS. CONSULT ARCHITECT FOR CLARIFICATION, IF NECESSARY.

# LEGENDS

	FINISH LEGEND
	EPOXY PAINT (EP1)
	WALL TILE (T1)
••••••	WALL TILE (T2)
	WALL PROTECTION (FRP)
	METAL PANEL (LB2)
	WALK-OFF CARPET SYSTEM (C1)
4	POLISHED / SEALED CONCRETE (PC1

NOT ALL FINISHES ARE GRAPHICALLY SHOWN . REFER TO FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR SPECIFIC LOCATIONS AND MATERIALS.

DESCRIPTION DATE

PROJECT NO: 22003

STATUS: PERMIT SET

DATE: 01 NOVEMBER 2023

DRAWN BY: CWA

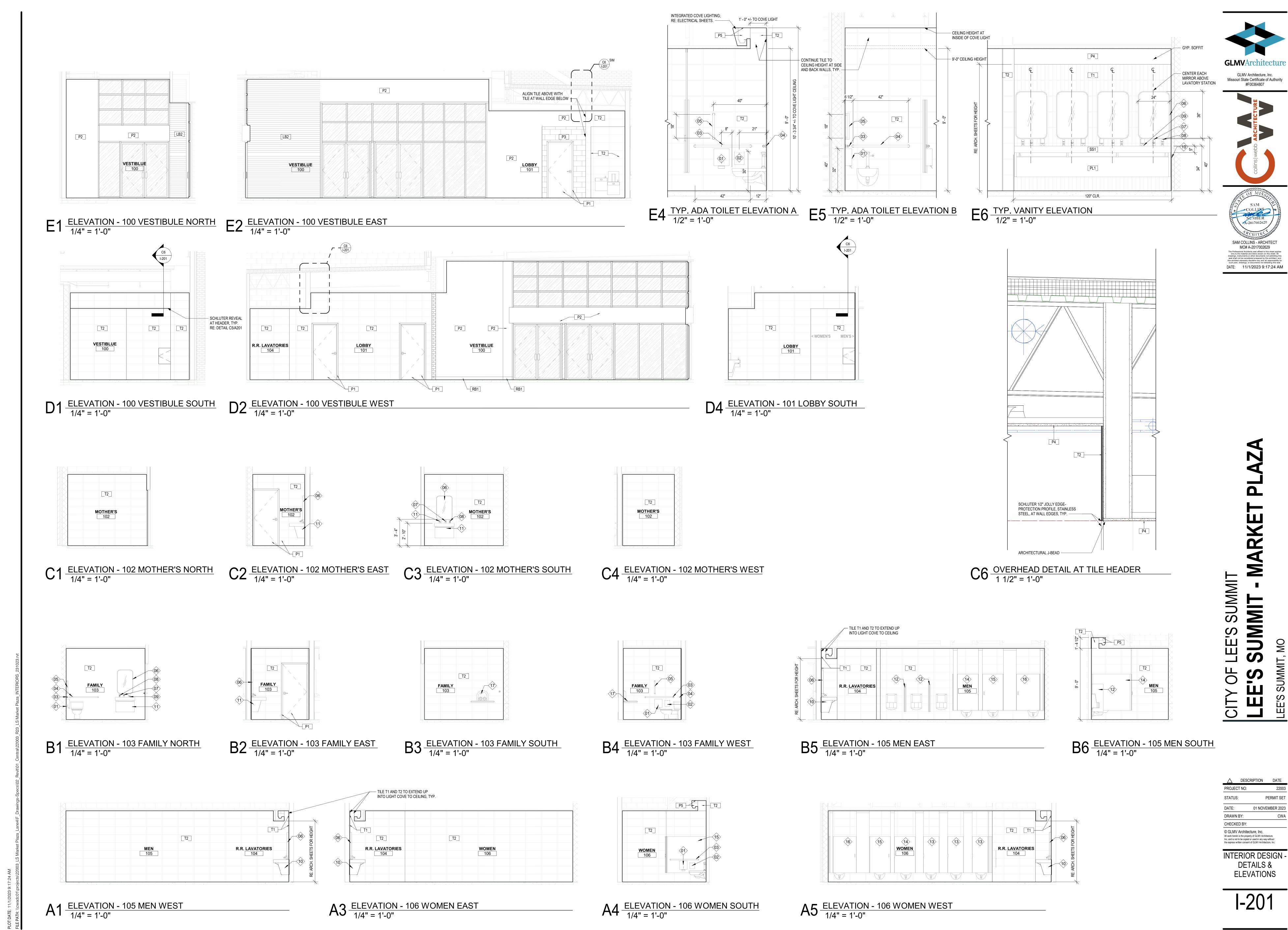
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INTERIOR DESIGN -

PLANS & GENERAL NOTES

I-101



I-201

INTERIOR DESIGN **DETAILS & ELEVATIONS** 

PERMIT SET

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P6\_\_\_\_P8\_\_

SIGNAGE CENTERED ON WALL
ALIGNED WITH OPENING; DESIGN
AND INSTALLATION BY OTHERS.

OPEN
BEYOND

POPEN
BEYOND

LOCKABLE, TILE-READY ACCESS DOOR, 24"X24",
TYP. AT EACH RESTROOM,
BASIS OF DESIGN: BABCOCK-DAVIS TILE READY
ACCESS DOOR, DRYWALL BEAD FLANGE.
RE: FLOOR PLAN FOR LOCATIONS

OPEN
BEYOND

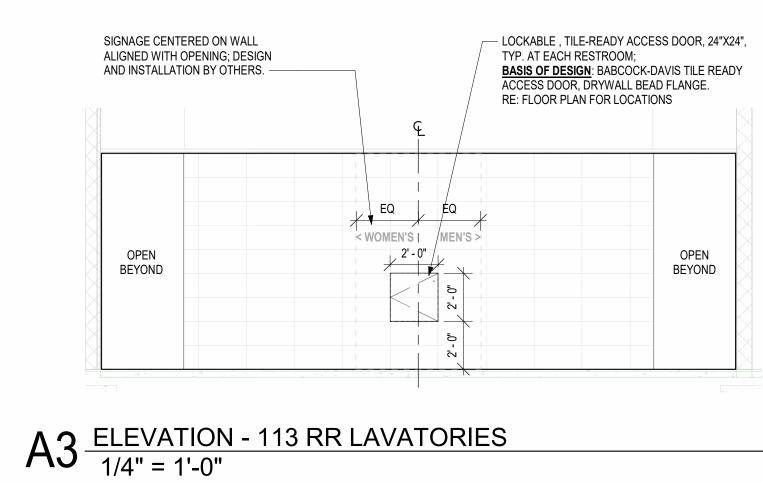
OPEN
BEYOND

OPEN
BEYOND

A

ELEVATION - 104 RR LAVATORIES

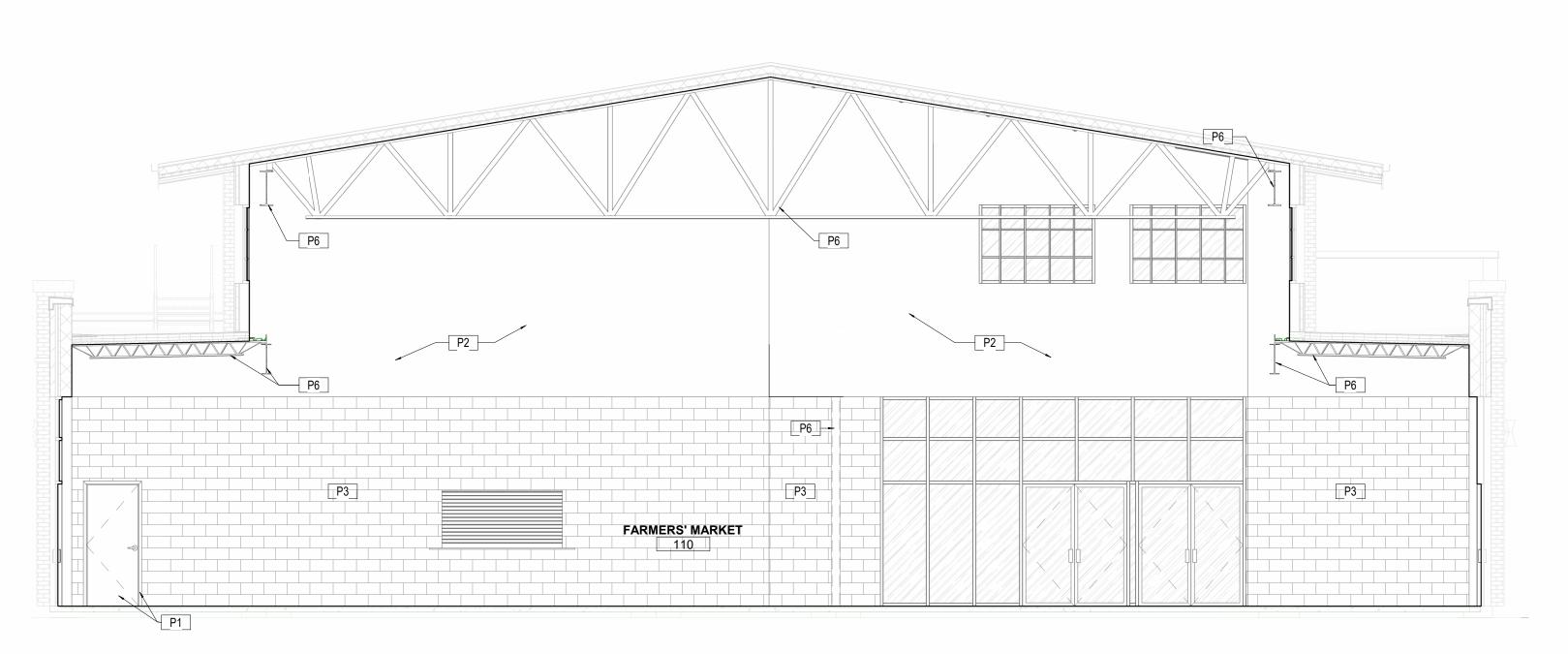
1/4" = 1'-0"

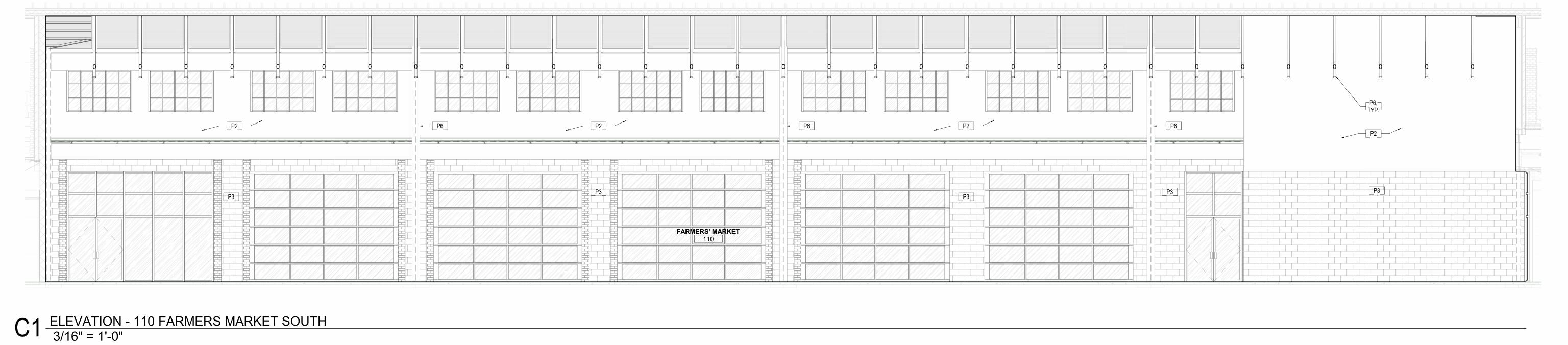


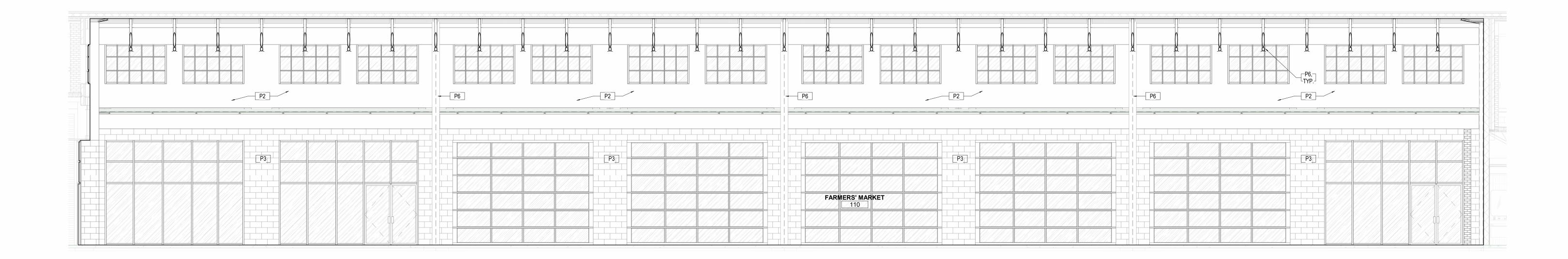
B1 ELEVATION - 110 FARMERS MARKET WEST 3/16" = 1'-0"

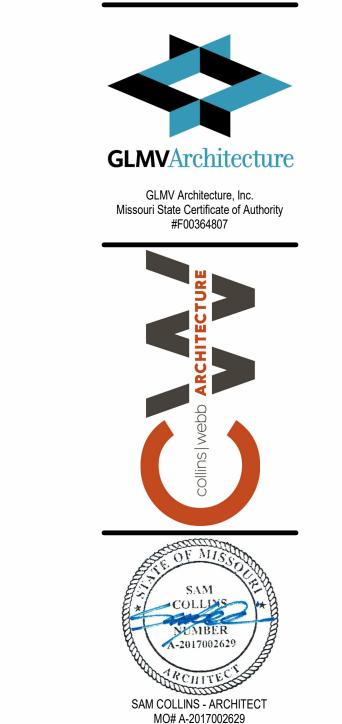
D1 ELEVATION - 110 FARMERS MARKET NORTH
3/16" = 1'-0"

B4 ELEVATION - 110 FARMERS MARKET EAST 3/16" = 1'-0"









**MANUFACTURER** 

MATTER SURFACES

SCOFIELD

JOHNSONITE

# **ROOM FINISH SCHEDULE REMARKS:**

4. PROVIDE FRP TO 4'-0" AFF.

GRAY BASE, CHARCOAL VESTIBULE, CORRIDOR 112, FARMERS MARKET, AS NOTED IN PLAN

TG1 SNOWBOUND W ALL GYPSUM WALLS AT VESTIBULE, LOBBY, CORRIDOR

SW 7004 SNOWBOUND GYP CEILING / SOFFITS, RESTROOM CEILINGS

SW 7757 HIGH REFLECTIVE LIGHT COVE @ RESTROOM WET WALLS

AREAS WITH MULTIPLE DESIGNATED FINISHES, RE: FINISH FLOOR PLANS & INTERIOR ELEVATIONS FOR ADDITIONAL CLARIFICATION.

TYP. AREA / REMARKS

1. PROVIDE FULL HEIGHT WALL TILE AT WET WALL, RE: INTERIOR ELEVATIONS. 2. PROVIDE FULL HEIGHT WALL TILE ON ALL WALLS IN ROOM/SPACE, RE: INTERIOR ELEVATIONS. 3. PROVIDE FRP FULL HEIGHT.



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OF MISSOCIA
SAM
A-2017002629
SAM COLLINS - ARCHITECT MO# A-2017002629
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# DATE: 11/1/2023 9:17:36 AM

#### RB2 RUBBER WALL BASE JOHNSONITE DURACOVE THERMOPLASTIC RUBBER 1/8" (TYPE TP), W/ TOE 199 DOCKSIDE WG WALL GYPSUM OR FRP WALLS AT JANITOR ROOM, MECH/ELEC. ROOM, I.T. ROOM, BACK OF HOUSE WALL FINISH PAINT - EPOXY SHERWIN WILLIAMS SATIN ENAMEL SW 7004 SNOWBOUND KITCHEN, JANITOR FRP1 FIBER REINFORCED PLASTIC PANEL (4'x8' OR 10') MARLITE TEXTURED - PEBBLED P145 SILVER JANITOR ROOM, INSTALLED TO 4'-0" A.F.F. TONGUE & GROOVE INTERIOR WALL SYSTEM ONGBOARD PRODUCTS V-GROOVE 6"x12' PLANK W/ QUICK SCREEN CLIPS LIGHT CHERRY WOOD GRAIN VESTIBULE WALLS PAINT - WATER-BASED ALKYD URETHANE ENAMEL SEMI-GLOSS SW 6003 PROPER GRAY HM DOOR FRAMES SHERWIN WILLIAMS PAINT - ZERO V.O.C. INTERIOR LATEX SHERWIN WILLIAMS SATIN SW 7004 SNOWBOUND ALL GYPSUM WALLS, U.N.O. SATIN PAINT - ACRYLIC MASONRY BLOCK FILLER / PRIMER SHERWIN WILLIAMS SW 7004 SNOWBOUND ALL CMU WALLS, U.N.O. SHERWIN WILLIAMS ALL EXPOSED STRUCTURAL STEEL (COLUMNS, TRUSSES, JOISTS, ETC.), U.N.O. PAINT - WATER-BASED INTUMESCENT FIRE PROTECTION COATING SW 7069 IRON ORE SW 6003 PROPER GRAY ALL EXPOSED STRUCTURAL STEEL (COLUMNS, TRUSSES, JOISTS, ETC.), U.N.O. (ALTERNATE COLOR OPTION) PAINT - WATER-BASED INTUMESCENT FIRE PROTECTION COATING SHERWIN WILLIAMS MESMERIST GLAZED CERAMIC GLAZED CERAMIC WALL TILE (3"x12"x5/16") DALTILE CHARM MM32 ACCENT TILE @ RESTROOM VANITIES, WATER FOUNTAINS DALTILE MIST BR31 FIELD TILE @ RESTROOMS, WATER FOUNTAINS, LOBBY GLAZED PORCELAIN TILE (12"x24"x5/16") BRYNE EPOXY TILE GROUT - EPOXY (1/8" GROUT JOINTS) TEC SILVERADO TO BE USED WITH T1 TG2 TILE GROUT - EPOXY (1/16" GROUT JOINTS) EPOXY TO BE USED WITH T2 MILLWORK / CASEWORK FTX1 FIXTURE FINISH SLOAN BRUSHED NICKEL (BN) SLOAN AER-DEC FIXTURES HDPE1 SCRANTON PRODUCTS HDPE RESTROOM PARTITIONS ORANGE PEEL RESTROOM PARTITIONS, RE: ACCESSORY SCHEDULE; CLASS B CEILING HUNG PLASTIC LAMINATE WILSONART PREMIUM, GLOSS LINE W/ AEON SCRATCH RESISTANCE FINISH 8213K-28 PHANTOM COCOA SLOAN AER-DEC CABINET STYLE LAMINATED DOOR MOUNTING SLOAN AER-DEC LAVATORY DECKS SS1 SIMULATED STONE / QUARTZ CORIAN QUARTZ 2CM, POLISHED LONDON SKY CEILING FINISH ACT1 VINYL-FACED CEILING TILE (2'x2') CERTAINTEED CEILINGS VINYL SHIELD A, 1100-CRF-1 CATERING KITCHEN, STORAGE, BACK OF HOUSE ACT1 GRID 15/16" SUSPENSION SYSTEM **CERTAINTEED CEILINGS** CLEANROOM STAB SYSTEM (GALVANIZED STEEL) CATERING KITCHEN, STORAGE, BACK OF HOUSE PERFORATED V-GROOVE 6"x12' PLANK CEILING SYSTEM W/ QUICK LIGHT CHERRY WOOD GRAIN VESTIBULE CEILING ENDURA LINEAR DIRECT MOUNT CEILING SYSTEM LONGBOARD PRODUCTS SCREEN CLIPS & SOUNDTEX

**TYPE** 

ULTRA ENTRY - LOOSE LAY SHALLOW RECESSED

LITHOCHROME, HIGH GLOSS

MILLWORK WALL BASE - 4.5"H MANDALAY - MW-XX-H

COLOR

SPLASH INSERTS

GRAY / NATURAL FINISH ALL FLOORS, U.N.O.

# **GENERAL FINISH LEGEND NOTES:**

SYMBOL

PC1

FLOOR FINISH

WALL BASE RB1

**MATERIAL** 

WALK-OFF ENTRY CARPET SYSTEM - 4'x40'x5/16" ROLL

POLISHED CONCRETE, HIGH GLOSS

RUBBER WALL BASE

PAINT - ZERO V.O.C. INTERIOR LATEX

PAINT - ZERO V.O.C. INTERIOR LATEX

- 1. FINISH MATERIALS TO BE PROCURRED FROM SPECIFIED VENDOR, AS LISTED ABOVE. ALTERNATES OR SUBSTITUTIONS WILL NOT BE ACCEPTED UNLESS VERIFIED TO BE EQUAL IN PERFORMANCE, QUALITY, VISUAL APPEARANCE, AND APPROVED BY ARCHITECT, INTERIOR DESIGNER, AND OWNER.
- 2. FINISH SELECTIONS ARE PROVIDED FOR DESIGN INTENT ONLY; ALL FINAL SELECTIONS TO BE VERIFIED AND APPROVED BY OWNER.

SHERWIN WILLIAMS

SHERWIN WILLIAMS

NO.	MANUFACTURER	DESCRIPTION	MODEL	FINISH	Н	W	D	QTY. COMMENTS	REMARKS
01	BOBRICK WASHROOM EQUIPMENT, INC.	SURFACE MOUNTED SINGLE JUMBO TOILET ROLL HOLDER - FINO COLLECTION	B-9890	STAINLESS STEEL, SATIN FINISH	1' - 0 3/4"	11' - 0 11/16"	5"	19	3
	BOBRICK WASHROOM EQUIPMENT, INC.	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL - CONTURA SERIES	B-270	STAINLESS STEEL, SATIN FINISH	10"	7 1/2"	3 13/16"	13	3
	· ·	11/2" (38mm) DIA. STAINLESS STEEL GRAB BARS WITH CONCEALED FLANGE - FINO COLLECTION	B-9806-42	STAINLESS STEEL, SATIN FINISH		3' - 6"	1 1/2"	13	3
04	BOBRICK WASHROOM EQUIPMENT, INC.	11/2" (38mm) DIA. STAINLESS STEEL GRAB BARS WITH CONCEALED FLANGE - FINO COLLECTION	B-9806-36	STAINLESS STEEL, SATIN FINISH		3' - 0"	1 1/2"	5	3
05	BOBRICK WASHROOM EQUIPMENT, INC.	11/2" (38mm) DIA. STAINLESS STEEL GRAB BARS WITH CONCEALED FLANGE - FINO COLLECTION	B-9806-18	STAINLESS STEEL, SATIN FINISH		1' - 6"	1 1/2"	5	3
06	ELECTRIC MIRROR	EMINENCE LIGHTED MIRROR - LED	EMN3-24.00X36.00-01L-D1-OS-RC6.0-WG3-30K	MATTE BLACK	3' - 0"	2' - 0"	2 195/256"	18 BACKLIT, EDGELIT FRAME	5
)7	SLOAN VALVE	BASYS FAUCET - LOW BODY, HARDWIRED-POWERED, DECK-MOUNTED	EFX-300-4-PLG-BDT-BN-0.5GPM-MLM-CAP-BAA-FCT	BRUSHED NICKEL				18 RE: PLUMBING SHEETS	
80	SLOAN VALVE	BASYS FOAM SOAP DISPENSER - DECK-MOUNTED, WITH AC ADAPTOR (PART 0346090)	ESD-500-BN	BRUSHED NICKEL				18 RE: PLUMBING SHEETS	
09	SLOAN VALVE	HAND DRYER - SLOAN® AER-DEC	EHD-511-BN	BRUSHED NICKEL				18 RE: PLUMBING SHEETS	
10	SLOAN VALVE	AER-DEC® 4-STATION WALL-MOUNTED SINK, VERTICAL CABINET STYLE LAMINATED DOORS	AD-84000	CORIAN QUARTZ - LONDON SKY, WILSONART - PHANTOM COCOA	2' - 10"	10' - 0"	1' - 11 1/2"	4 RE: PLUMBING & STRUCTURAL SHEETS	3
11	SLOAN VALVE	AER-DEC® 1-STATION WALL-MOUNTED SINK, VERTICAL CABINET STYLE LAMINATED DOORS	AD-81000	CORIAN QUARTZ - LONDON SKY, WILSONART - PHANTOM COCOA	2' - 10"	2' - 6"	1' - 11 1/2"	2 RE: PLUMBING & STRUCTURAL SHEETS	3
12	SCRANTON PRODUCTS	HINY HIDERS - WALL MOUNTED URINAL PARTITION	TRADITIONAL 2600	SHALE, ORANGE PEEL	3' - 6"	1' - 6"		4 WALL-HUNG, FLANGE	
13	SCRANTON PRODUCTS	HINY HIDERS - 24" INSWING STANDARD PARTION & DOOR	TRADITIONAL 2600	SHALE, ORANGE PEEL	6' - 10"			6 CEILING HUNG, 55"H DOOR	
14	SCRANTON PRODUCTS	HINY HIDERS - 32" INSWING STANDARD PARTION & DOOR	TRADITIONAL 2600	SHALE, ORANGE PEEL	6' - 10"			4 CEILING HUNG, 55"H DOOR	
15	SCRANTON PRODUCTS	HINY HIDERS - 32" OUTSWING AMBULATORY PARTITION & DOOR	TRADITIONAL 2600	SHALE, ORANGE PEEL	6' - 10"			4 CEILING HUNG, 55"H DOOR	
16	SCRANTON PRODUCTS	HINY HIDERS - 36" OUTSWING ADA PARTION & DOOR	TRADITIONAL 2600	SHALE, ORANGE PEEL	6' - 10"			4 CEILING HUNG, 55"H DOOR	
17	KOALA KARE	BABY CHANGING STATION	KB300-05SS	WHITE GRANITE 05	1' - 8 3/4"	2' - 11 15/16"	1' - 9 3/16"	1 CLOSED DEPTH 4"	3

# PLUMBING & TOILET ACCESSORY NOTES:

GENERAL NOTES:
A. ALL TOILET ACCESSORY LOCATIONS BASED ON FLOOR PLAN LAYOUT. B. REFER TO INTERIOR ELEVATIONS FOR ANY ACCESSORIES THAT MAY NOT SHOW UP ON THE PLANS.

C. REFER TO ELEVATIONS AND MANUFACTURER'S SPECIFICATIONS FOR MOUNTING HEIGHTS.

D. COORDINATE ALL MOUNTING HEIGHTS W/ PLUMBING FIXTURES TO ALLOW PROPER OPERATION & INFORM ARCHITECT IN WRITING OF ANY CONFLICTS. E. G.C. TO VERIFY DIRECTLY W/ OWNER TO DETERMINE MOUNTING HEIGHTS, U.N.O.

F. REFER TO PLANS AND ELEVATIONS FOR ITEMS NOTED AS FF&E. G. PROVIDE ALLOWANCE FOR ALL ROUNDED VANITY MIRRORS.

1. OWNER FURNISHED, OWNER INSTALLED. 2. FF&E ITEM - OWNER FURNISHED, CONTRACTOR INSTALLED. REFER TO PLANS AND

ELEVATIONS FOR FURTHER CLARIFICATION. 3. SURFACE MOUNTED.

5. MIRRORS TO BE CENTERED AT LAVATORY STATIONS, TYP; RE: ELEVATIONS.

Δ	DESCRI	PTION	DATE
PROJEC1	ΓNO:		22003
STATUS:			PERMIT SET
DATE:		01 NOV	'EMBER 2023
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SUMMIT,

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INTERIOR DESIGN LEGENDS & SCHEDULES

- 1. PROVIDE A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE ARCHITECT REFLECTING ANY VARIANCES OF INSTALLED PIPING LOCATIONS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS, REFER TO SPECIFICATIONS.
- 2. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- 3. PROVIDE TO THE ARCHITECT A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS, REFER TO SPECIFICATIONS.
- 4. PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
- 5. VERIFY LOCATION AND DEPTH OF UTILITIES AT POINTS OF CONNECTION BEFORE START OF PIPING INSTALLATION.
- 6. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
- 7. DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING.
- 8. INSTALL CONCEALED PIPING TIGHT TO THE STRUCTURE AND AS HIGH AS POSSIBLE.
- 9. VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED. 10. INSTALL EXPOSED PIPING, WHERE NECESSARY, IN FINISHED AREAS TIGHT TO THE STRUCTURE, WALL OR CEILING AND AS HIGH AS POSSIBLE. INSTALL PIPING PARALLEL AND / OR PERPENDICULAR TO WALLS.
- 11. INSTALL VALVES AND APPURTENANCES A MAXIMUM OF 24" ABOVE CEILING IN ACCESSIBLE LOCATION WITHIN 24" OF ACCESS DOORS OR ACCESSIBLE CEILING TILES. PROVIDE PIPE AND FITTINGS TO INSTALL VALVES AND APPURTENANCES AT REQUIRED HEIGHT AND WITHIN 24" OF ACCESS DOORS OR ACCESSIBLE CEILING TILES.
- 12. INSTALL NO PLASTIC PIPE OF ANY KIND ABOVE SLAB INSIDE OR UNDER THE BUILDING. INSTALL NO PLASTIC PIPE IN THE CEILING RETURN AIR PLENUM.
- 13. COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- 14. COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC. WHERE REQUIRED AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR BEFORE CONCRETE IS INSTALLED.
- 15. CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO
- 16. PROVIDE TRAP PRIMERS WHERE REQUIRED BY LOCAL AUTHORITIES.

TURNING BUILDING OVER TO THE OWNER.

- 17. COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL PIPING OVER ELECTRICAL PANELS.
- 18. PAINT ALL EXPOSED GAS AND WATER PIPING USING RUST INHIBITOR PAINT. PAINT AND COLOR SHALL BE COORDINATED WITH THE ARCHITECT AND / OR OWNER.
- 19. COORDINATE ALL ROOF PENETRATIONS WITH OTHER TRADES. MAINTAIN 10' MINIMUM CLEARANCE FROM ALL AIR INTAKES. MAINTAIN 2' CLEARANCE FROM ALL OTHER EQUIPMENT.
- 20. INSULATE PIPING ROUTED IN EXTERIOR BUILDING WALLS WITH MINIMUM 2" BATT INSULATION TO PREVENT FREEZING.
- 21. PROVIDE "HEAVY-DUTY" NO-HUB COUPLINGS ON SANITARY PIPING 3" AND LARGER, SOIL STACKS 4" AND LARGER AND CONNECTIONS TO SOIL STACKS. SEE DIVISION 22 SPECIFICATION SECTION "SANITARY DRAINAGE AND VENT AND PIPING SPECIALTIES" FOR MORE INFORMATION.
- 22. PROVIDE "HEAVY-DUTY" NO-HUB COUPLINGS ON STORM PIPING, INCLUDING CONNECTIONS TO ROOF DRAINS. SEE DIVISION 22 SPECIFICATION SECTION "STORM DRAINAGE PIPING AND SPECIALTIES" FOR MORE INFORMATION.
- 23. PROVIDE TRANSITION ADAPTER COUPLINGS FOR CONNECTION OF PVC DWV TO CAST IRON AT SLAB ON GRADE. SEE DIVISION 22 SPECIFICATION FOR MORE INFORMATION.
- 24. PROVIDE TRANSITION ADAPTER COUPLINGS FOR CONNECTION OF PVC DWV TO CAST IRON SANITARY, WASTE AND VENT PIPE AT SLAB ON GRADE. SEE DIVISION 22 SPECIFICATION SECTION "SANITARY DRAINAGE AND VENT PIPING AND SPECIALTIES" FOR MORE INFORMATION.
- 25. PROVIDE TRANSITION ADAPTER COUPLINGS FOR CONNECTION OF PVC DWV TO CAST IRON STORM PIPE AT SLAB ON GRADE. SEE DIVISION 22 SPECIFICATION SECTION "STORM DRAINAGE PIPING AND SPECIALTIES" FOR MORE INFORMATION.
- 26. WATER HAMMER ARRESTORS SHALL BE SIZE "A" UNLESS NOTED OTHERWISE.
- 27. PROVIDE VERTICAL LIFT SPRING LOADED CHECK VALVES IN HOT AND COLD WATER SUPPLIES FOR MOP SINK FAUCETS DOWNSTREAM OF SHUTOFF VALVES.
- 28. PROVIDE SIZE AND LENGTH OF HOT WATER FIXTURE SUPPLY PIPE FROM CIRCULATED HOT WATER BRANCH OR MAIN TO TERMINATION OF HOT WATER FIXTURE SUPPLY PIPE AT EACH FIXTURE PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE, TABLE C404.3.1. FOR ½" HOT WATER FIXTURE SUPPLY PIPE SIZE TO INDIVIDUAL LAVATORIES, PROVIDE MAXIMUM LENGTH OF TWO FEET. FOR 1/2" HOT WATER FIXTURE SUPPLY PIPE SIZE TO INDIVIDUAL SINKS, PROVIDE MAXIMUM LENGTH OF 43 FEET. FOR 3/4" HOT WATER FIXTURE SUPPLY PIPE SIZE TO INDIVIDUAL SINKS, PROVIDE MAXIMUM LENGTH OF 21 FEET.

PLUMBING SYMBOLS  HIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR AI	BREVIATIONS ARE USE	D		1/0.0
TANDARD MOUNTING HEIGHTS	PIPING SYMBOLS	.ט	PIPING LINETYPES	V2.0
INIC SERVICE SINKS (RIM) 30		OXYGEN OUTLET	cw	DOMESTIC COLD WATER (CW)
OSE BIBB (CENTERLINE)	, <del></del>	NITROUS OXIDE OUTLET	scw	SOFTENED COLD WATER (SCW)
E MAKER OUTLET BOX (CENTER OF BOX)		MEDICAL AIR OUTLET	——HW——	DOMESTIC HOT WATER (HW)
NITOR'S SINK FAUCET FITTINGS (CENTERLINE) 42	· ·	NITROGEN OUTLET	HWR	DOMESTIC HOT WATER RECIRC. (HWR)
VATORY OR SINK STANDARD HEIGHT (RIM)		MEDICAL VACUUM INLET	140°	DOMESTIC HOT WATER (140°)
ADA ACCESSIBLE (RIM)  CHILD HEIGHT (RIM)  24		FLOOR SINK (FS), SIZE & TYPE		TRAP PRIMER LINE (T)
DN FREEZE WALL HYDRANT (AFG TO CENTERLINE)	.   •	FLOOR DRAIN (FD), SIZE & TYPE	S	SOIL PIPING - ABOVE FLOOR (S)
HOWER HEAD	©	ROOF DRAIN (RD), SIZE & TYPE		SOIL PIPING - BELOW FLOOR (S)
MEN (CENTERLINE) 78 WOMEN (CENTERLINE) 72		BALL VALVE		WASTE PIPING - ABOVE FLOOR (W)
IOWER VALVE		CONTROL VALVE		WASTE PIPING - BELOW FLOOR (W)
STANDARD HEIGHT - MEN (CENTERLINE) 48 STANDARD HEIGHT - WOMEN (CENTERLINE) 42		SHUTOFF VALVE	—— GW — —	GREASE WASTE - ABOVE FLOOR (GW)
ADA ACCESSIBLE (CENTERLINE) 38" TO 48	, , , , , , , , , , , , , , , , , , ,	CHECK VALVE  BALANCING VALVE WITH PRESSURE PORTS	CGWV	GREASE WASTE - BELOW FLOOR (GW)  COMBINATION GREASE WASTE AND VENT (CGWV)
RGEON'S SCRUB-UP SINK (FRONT RIM)	,	WATER METER	cwv	COMBINATION GREASE WASTE AND VENT (CGWV)
B VALVE STANDARD HEIGHT (CENTERLINE) 32	, <u> </u>	STRAINER	ST	STORM DRAIN - ABOVE FLOOR (ST)
ADA ACCESSIBLE CENTER BETWEEN GRAB BAR AND TUB RII	1   '\$'	STRAINER WITH BLOWOFF	—— ·ST: ——	STORM DRAIN - BELOW FLOOR (ST)
INAL STANDARD HEIGHT (RIM) 24		RELIEF/SAFETY VALVE		OVERFLOW STORM DRAIN - ABOVE FLOOR (OST)
ADA ACCESSIBLE (RIM) 17 CHILD HEIGHT (RIM) 14		SOLENOID VALVE	— VBG — —	VENT BELOW GRADE (VBG)
SHING MACHINE OUTLET BOX (RIM) 42	"	PRESSURE REDUCING VALVE		VENT BELOW GRADE (VBG)  VENT BELOW FLOOR (VBF)
TER CLOSET		GAS PRESSURE REGULATOR	VDF	INDIRECT DRAIN (ID)
STANDARD HEIGHT (RIM)  ADA ACCESSIBLE (TOP OF SEAT)  17" TO 19		THERMOSTATIC MIXING VALVE	CDH	CONDENSATE DRAIN - HIGH EFFICIENCY RTU (CDF
CHILD HEIGHT (RIM)		PIPE ANCHOR	CDn	`
TER COOLER OR DRINKING FOUNTAIN STANDARD HEIGHT (SPOUT) 4			^CD	CONDENSATE DRAIN (CD)
ADA ACCESSIBLE (SPOUT)  CHILD HEIGHT (SPOUT)  36		EXPANSION JOINT	——————————————————————————————————————	AUXILIARY CONDENSATE DRAIN (ACD)
	• • • • • • • • • • • • • • • • • • •	BACKFLOW PREVENTER		SUMP OR SEWAGE PUMP DISCHARGE (SPD)
		PRESSURE GAUGE		NATURAL GAS ON BOOF (C)
TALL PLUMBING FIXTURES AT THE MOUNTING HEIGHTS SHOWN ABOVE IN THE ARCHITECTURAL DRAWINGS OR ELSEWHERE IN THE		THERMOMETER		NATURAL GAS ON ROOF (G)
NSTRUCTION DOCUMENTS. FINAL APPROVAL OF LOCATIONS BY CHITECT. MOUNTING HEIGHTS LISTED ABOVE, OR ELSEWHERE IN THE		UNION	——MPG——	MEDIUM PRESSURE NATURAL GAS (MPG)
NSTRUCTION DOCUMENTS, ARE AFF, UNO. ALL DEVICES SHALL BE TALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL		FLANGE CONNECTION	— — MPG — —	MEDIUM PRESSURE NATURAL GAS ON ROOF (MPC
QUIREMENTS.		HOSE BIBB (HB)	NPW-	NON-POTABLE WATER (NPW)
NOTATION	<b>—</b>	NON-FREEZING WALL HYDRANT (NW)	LPG——	LIQUEFIED PETROLEUM GAS (LPG)
1) PLUMBING PLAN NOTE CALLOUT		MANUAL / AUTOMATIC AIR VENT OR VACUUM RELIEF VALVE		WATER SERVICE (WS)
1 Edwiding   Bantage on Elegati	Р	PRESSURE / VACUUM SWITCH	——DFP——	FIRE PROTECTION SPRINKLER DRY (DFP)
PLUMBING EQUIPMENT DESIGNATION. (CONTRACTOR FURNISHED AND INSTALLED). REFER TO PLUMBING FIXTURE		CLEANOUT	FP——FP	FIRE PROTECTION SPRINKLER WET (FP)
OR EQUIPMENT SCHEDULES		CAP	———DSP———	FIRE PROTECTION STANDPIPE DRY (DSP)
EQUIPMENT DESIGNATION (OWNER FURNISHED,	———∌∥	WALL CLEANOUT (WCO)	WSP	FIRE PROTECTION STANDPIPE WET (WSP)
CONTRACTOR INSTALLED)		FLOOR CLEANOUT (FCO)	———PD———	CONDENSATE PUMP DISCHARGE (PD)
CU\ MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR	O	EXTERIOR CLEANOUT (ECO)	V	VENT PIPING (V)
furnished and installed unless noted otherwise)	———ю	ELBOW UP	AW	ACID WASTE - ABOVE FLOOR (AW)
CONNECTION DOINT OF NEW WORK TO EVICTING	<del></del>	ELBOW DOWN	—— AW ——	ACID WASTE - BELOW FLOOR (AW)
CONNECTION POINT OF NEW WORK TO EXISTING	Oi	TEE UP	———AV———	ACID VENT (AV)
DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL		TEE DOWN	———GWS———	GRAY WATER (GWS)
NUMBER LOWER NUMBER INDICATES SHEET NUMBER	——— <b>;</b> ⊙	ELBOW UP WITH SHUT-OFF VALVE (SOV)	——CA——	COMPRESSED AIR (CA)
SECTION CUT DESIGNATION	———— <del>i</del> g	ELBOW DOWN WITH SHUT-OFF VALVE (SOV)	——MA——	MEDICAL AIR (MA)
	ō	TEE UP WITH SHUT-OFF VALVE (SOV)	MV	MEDICAL VACUUM (VE)
DEDICATED EQUIPMENT ACCESS TILE		TEE DOWN WITH SHUT OFF VALVE (SOV)	——НЕ——	HELIUM (HE)
ACCESS PANEL	.c. ■ "A"	WATER HAMMER ARRESTER (WHA) WITH PDI SIZES,	IA	INSTRUMENT AIR (IA)
		(A, B, C, D, & E)	IV	INSTRUMENT VACUUM (IV)
BREVIATIONS		RECIRCULATION PUMP	N2	NITROGEN (N2)
A AMERICANS WITH MIN MINIMUM DISABILITIES ACT N/C NORMALLY CLOSED	<del></del>	P-TRAP	N2O	NITROUS OXIDE (N20)
F ABOVE FINISHED FLOOR N/O NORMALLY OPEN B ABOVE FINISHED GRADE NIC NOT IN CONTRACT		GAS COCK	O2	OXYGEN (O2)
J AIR HANDLING UNIT ORD OVERFLOW ROOF DRAIN ACCESS PANEL PDI PLUMBING DRAINAGE		TRAP PRIMER	EV	EVAC/WAGD (EV)
B BUILDING AUTOMATION INSTITUTE	———	TRAP PRIMER WITH DISTRIBUTION UNIT	CO2	CARBON DIOXIDE (CO2)
BELOW FINISHED FLOOR PRV PRESSURE REDUCING			AI	MEDICAL AIR INTAKE (AI)
BELOW FINISHED GRADE  P BOTTOM OF PIPE  P POTTOM OF STRUCTURE  P P P P P P P P P P P P P P P P P P P			VE	MEDICAL VACUUM EXHAUST (VE)
S BOTTOM OF STRUCTURE RCP REINFORCED CONCRET  J BRITISH THERMAL UNIT PIPE  CONDENSATE PUMP RD ROOF DRAIN			———DA———	DENTAL AIR (DA)
/C CHLORINATED POLYVINYL RPM REVOLUTIONS PER			DV	DENTAL VACUUM (DV)
CHLORIDE MINUTE COPPER RTU ROOFTOP UNIT			——FW1——	FILTERED WATER (FW1)
DUCTILE IRON SF SQUARE FEET DOWN SP SUMP			——FW2——	FILTERED WATER W/ SCALE INHIBITOR (FW2)
J DRAINAGE FIXTURE UNIT SS STAINLESS STEEL SANITARY SEWER, SOIL			RO	REVERSE OSMOSIS (RO)
EXISTING STACK ENERGY MANAGEMENT TOH TOTAL DYNAMIC HEAD			ROR	REVERSE OSMOSIS REMINERALIZATION (ROR)
SYSTEM TFA TO FLOOR ABOVE R EXISTING TO REMAIN TFB TO FLOOR BELOW	LINETYPE LEGENI	<u> </u>	1	
C ELECTRIC WATER COOLER TYP TYPICAL FLOOR DRAIN UL UNDERWRITERS			1	
FROM FLOOR ABOVE LABORATORIES, INC. UNO UNLESS NOTED	COMBINATION WITH TH	AWINGS DIFFERENT LINETYPES ARE USED IN E SYMBOLS TO INDICATE THE STATUS OF ITEMS AS		
FINISHED FLOOR OTHERWISE FLOW LINE UPS UNINTERRUPTIBLE	AND/OR ITEMS WHICH A	LISHED, TO BE INCLUDED AS PART OF NEW WORK ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE.		
A FULL LOAD AMPS POWER SUPPLY R FLOOR VCP VITRIFIED CLAY PIPE	THE STATUS OF ITEMS	USING THESE LINETYPES ARE RELATIVE TO THE PPEAR. PHASING SHOWN IN DRAWINGS IS NOT		
M GALLONS PER MINUTE VFD VARIABLE FREQUENCY HEAD, HUB DRAIN DRIVE	INTENDED TO FULLY DE	SCRIBE ALL NECESSARY CONSTRUCTION PHASING, BY THE CONTRACTOR AS PART OF THEIR		
HERTZ VS VENT STACK	RESPONSIBILITIES. ANY DOCUMENTS ARE GENE	SUCH PHASES DESCRIBED IN THE CONSTRUCTION ERAL AND ONLY INTENDED TO INDICATE A BROAD	HATCHING LEGEN	D
INVERT ELEVATION VTR VENT THROUGH ROOF		OF DESCRIBING THE PROJECT. THE FOLLOWING		
		ED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE,		$\rightarrow \rightarrow $
INVERT ELEVATION VTR VENT THROUGH ROOF WC INCHES OF WATER COLUMN W/ WITH		ED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE,	ENLARGED PLAN	
INVERT ELEVATION  WC INCHES OF WATER COLUMN JUNCTION BOX  OX JUNCTION BOX  WC WATER COLUMN	LINETYPES MAY BE USE ETC.	ED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE,  NEW	ENLARGED PLAN	





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P-000







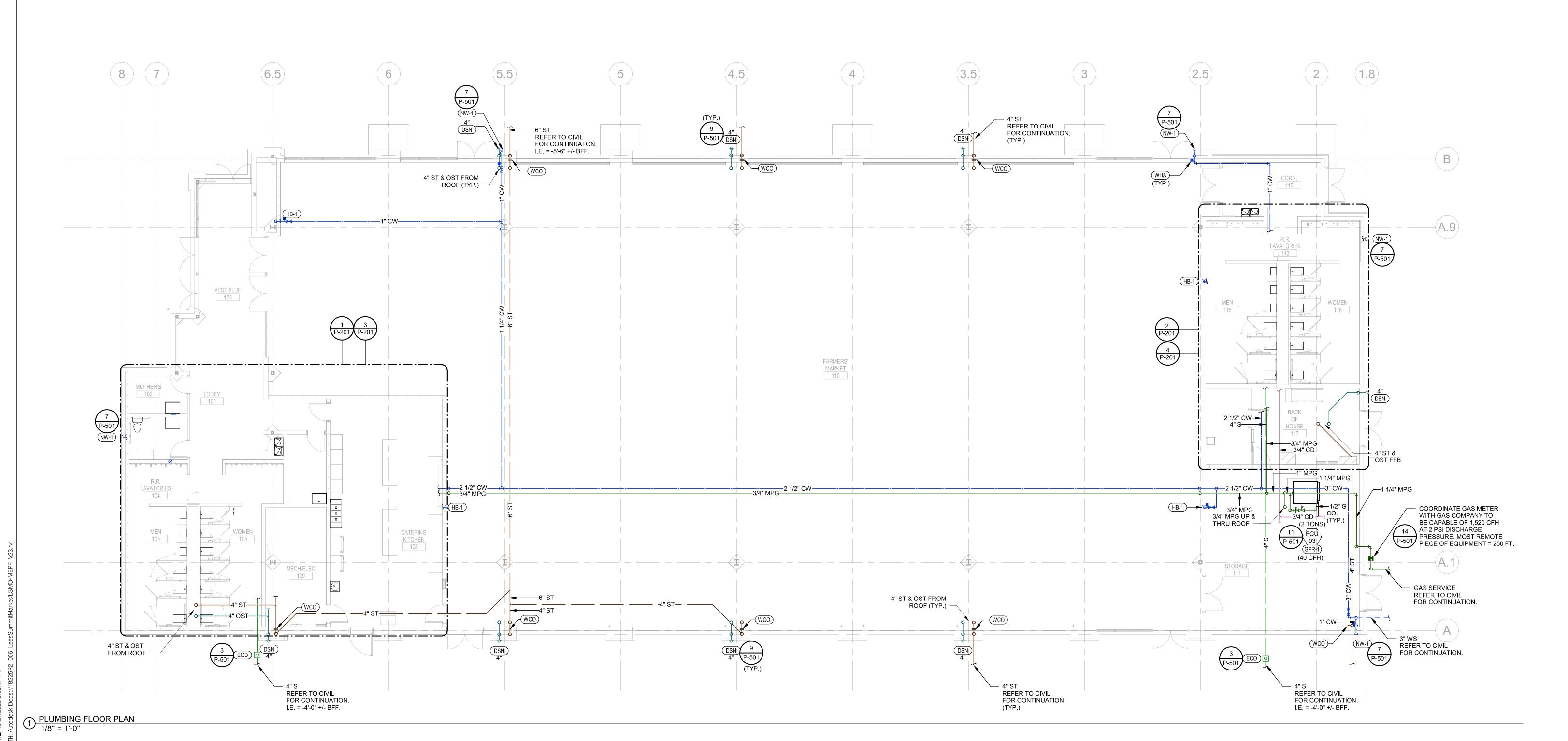


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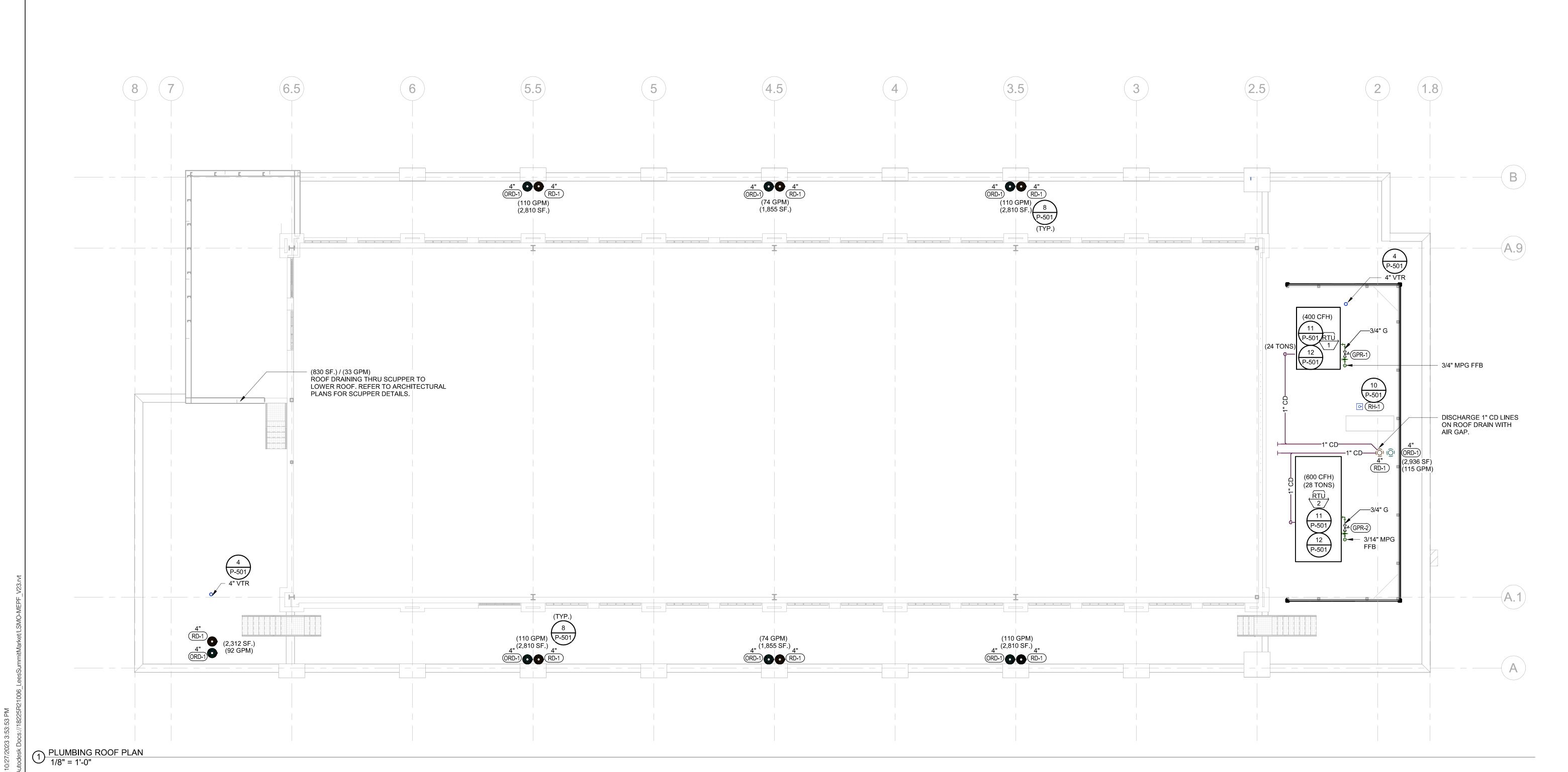
KEYPLAN ( )











SITY OF LEE'S SUMMIT

-EE'S SUMMIT - MARKET PLAZ

DESCRIPTION DATE

PROJECT NO: 18225R21006

STATUS: PERMIT SET

DATE: 11/01/2023

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PLUMBING ROOF PLAN

KEYPLAN (F)

O PLUMBING PLAN NOTES:

SUMMIT

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PLUMBING ENLARGED PLANS

P-201

- 1 1/4" CW HEADER (4)(TMV-1)(LAV-1) ·—1 1/4" HW—— (LAV-1) (TMV-1)(4) 3/4" CW & R.I HW (TYP.) ----1" CW-----3/4" CW & HW (TYP.) — - 2 1/2" CW HEADER WOMEN - 3/4" MPG FFA FIELD VERIFY STAIRS FINAL LOCATION AND COORDINATE FINAL WATER HEATER LOCATION BENEATH THE STAIRS. IT 118 3/4" HWR 1 1/4" CW 2 ENLARGED DOMESTIC WATER PLAN - BOH / RR 1/4" = 1'-0"

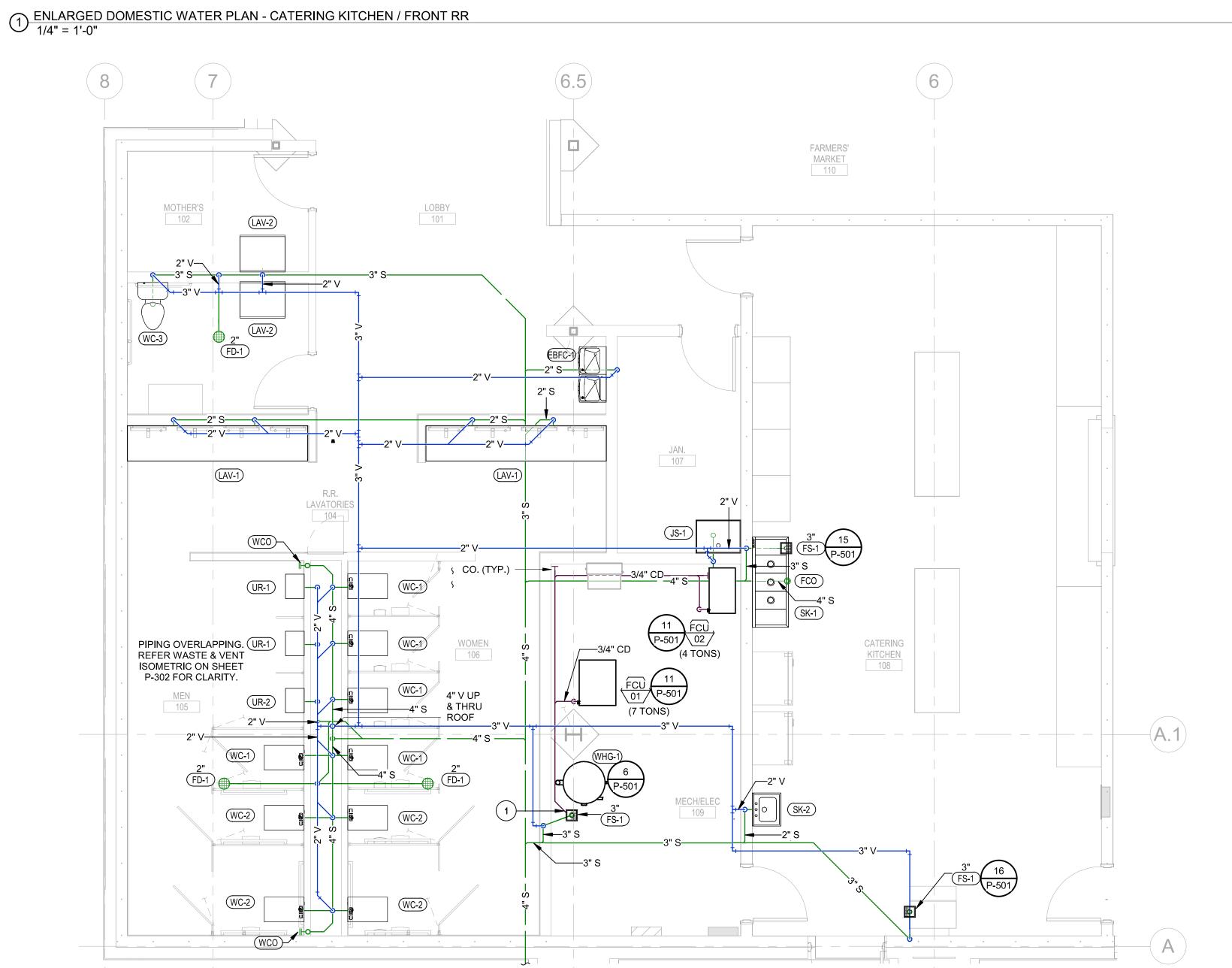
— 1 1/4" CW HEADER

—(A.9) (LAV-1) 2"V PIPING OVERLAPPING.
REFER TO WASTE & VENT
ISOMETRIC ON SHEET
P-302 FOR CLARITY.

UR-1 3/4" CD─**►** (1.5 TONS) VRF 102G 11 P-501 FIELD VERIFY STAIRS FINAL LOCATION AND COORDINATE FINAL WATER HEATER LOCATION BENEATH THE STAIRS.

ENLARGED WASTE & VENT PLAN - BOH / RR
1/4" = 1'-0"

1 DISCHARGE 3/4" CD TO FLOOR SINK, AS SHOWN ON PLAN, WITH AIR GAP. 2 3/4" CD DOWN THE WALL AND DISCHARGE TO FLOOR SINK, AS SHOWN ON PLAN, WITH AIR GAP. FARMERS' MARKET 1 1/4" CW HEADER CATERING \_\_ 1 1/4" CW 1 1/4" CW /HEADER HEADER -1 1/4" CW----(LAV-1) (4)(MV-1)1 1/2" HW-----1 1/4" HW----1 1/4" CW 3/4" HWR 2 1/2" CW-------1 1/2" CW----2 1/2" CW<del>-</del> 1 1/4" CW(TYP.) -HEADER MECH/ELEC 109 3/4" CW TO
ICE MACHINE
(PROVIDED BY
OTHERS).



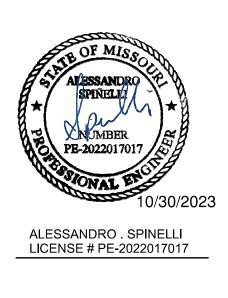
3 ENLARGED WASTE & VENT PLAN - CATERING KITCHEN / FRONT RR 1/4" = 1'-0"

PLAN NORTH











— 2 1/2" CW HEADER

1 1/4" CW-

3" WATER SERVICE. REFER TO CIVIL FOR CONTINUATION.

HB-1

1" CW----

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PLUMBING DOMESTIC WATER ISOMETRIC

1 DOMESTIC WATER ISOMETRIC NTS

1 1/4" CW HEADER —

3/4" CW TO ICE
MACHINE (PROVIDED
BY OTHERS)

2 1/2" CW HEADER

P-301







# SUMMIT - MARKET PLAZA

CITY OF LEE'S SUMMIT

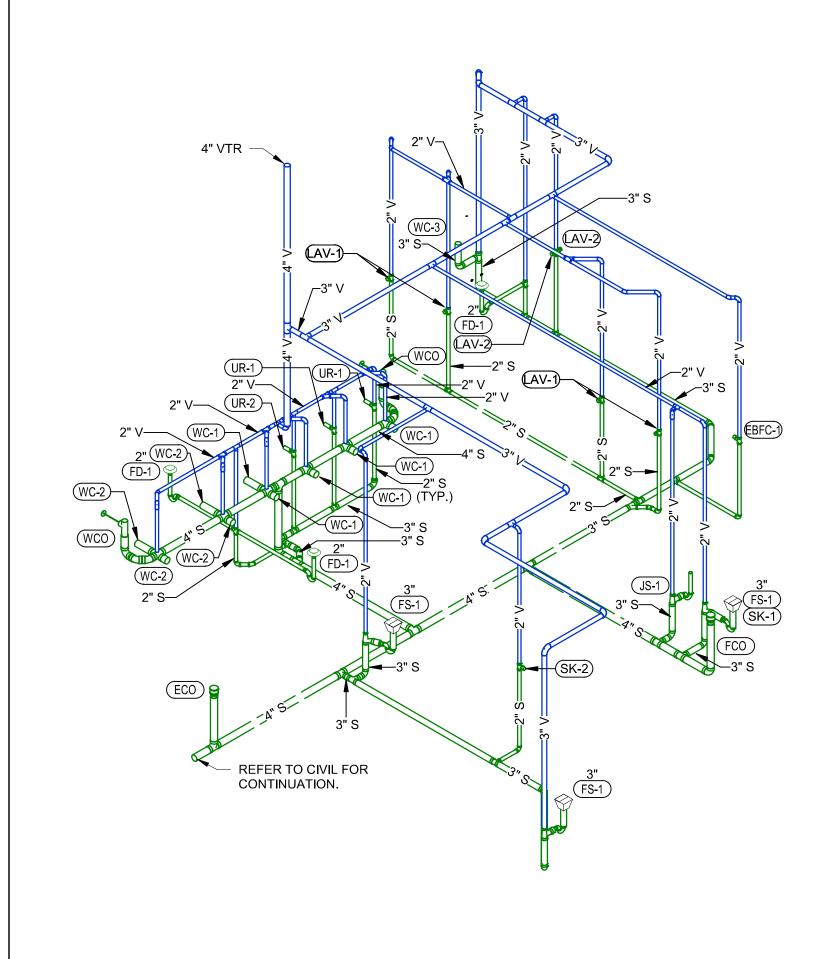
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PLUMBING WASTE & VENT ISOMETRIC

P-302

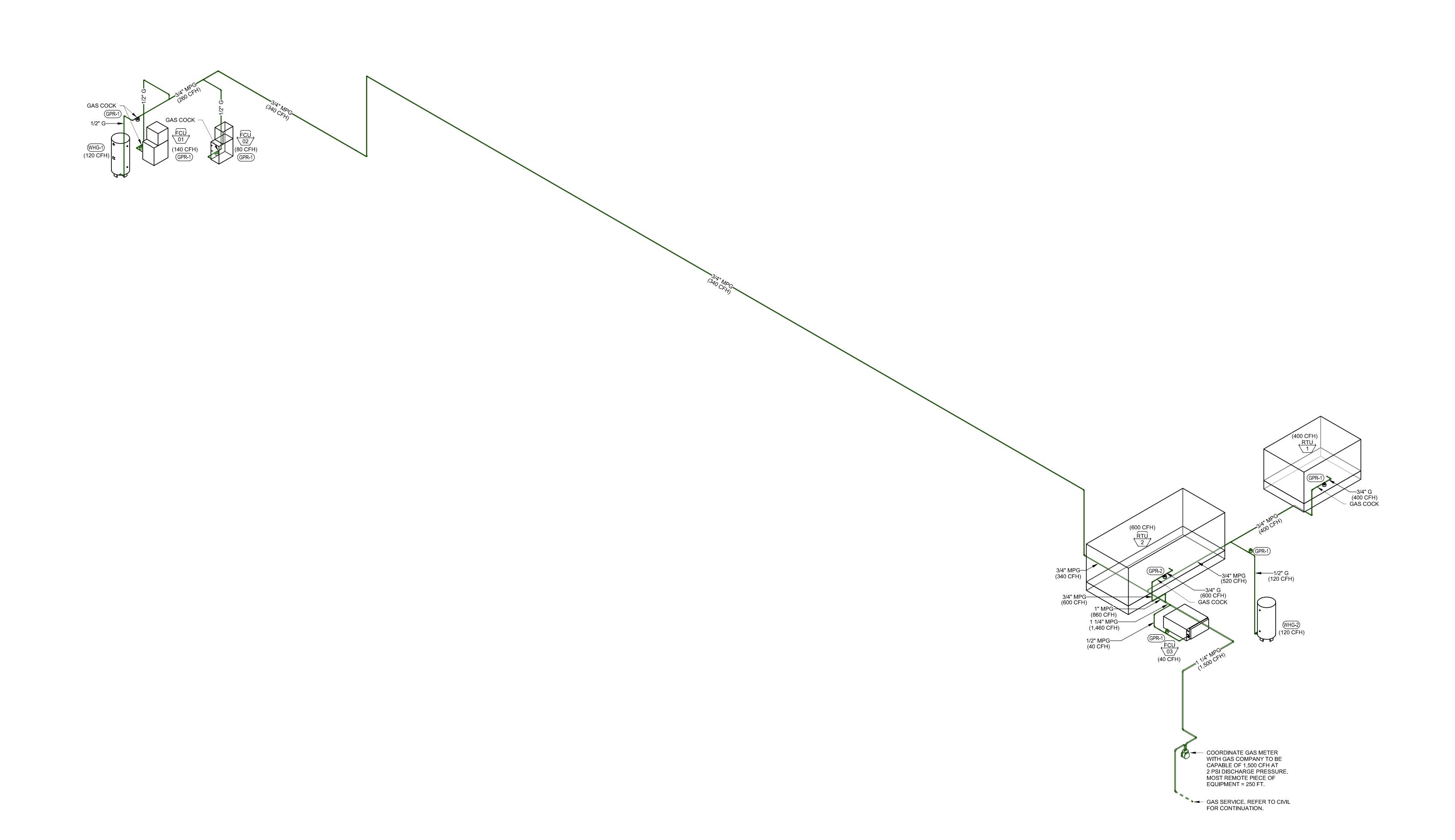


1 WASTE & VENT ISOMETRIC NTS

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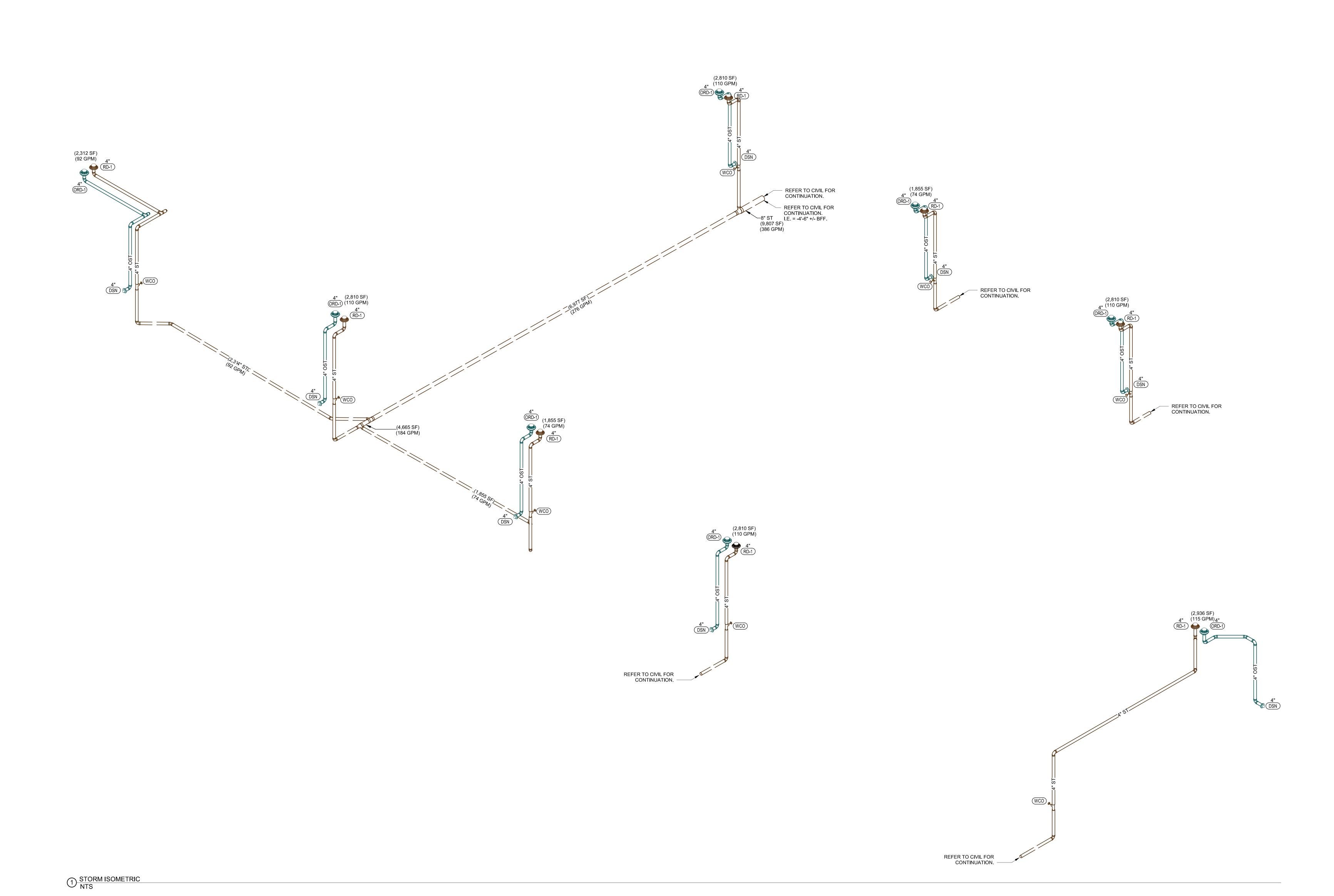
P-303



① GAS ISOMETRIC NTS

PLUMBING STORM ISOMETRIC

P-304



NOTE: PIPE SIZES SHOWN ARE MINIMUM.

PLUMBING PIPE MATERIAL SCHEDULE								
PING SYSTEM	ABBREVIATION	PIPING MATERIAL						
ANITARY DRAINAGE & VENT (ABOVE GRADE)	S, W OR V	HUBLESS CAST IRON (PVC DWV OPTIONAL)						
TORM DRAINAGE (ABOVE GRADE)	ST OR OST	PVC DWV						
ANITARY DRAINAGE & VENT (BELOW GRADE)	S, W OR V	PVC DWV						
TORM DRAINAGE (BELOW GRADE)	ST	PVC DWV						
POTABLE WATER (ABOVE GRADE)	CW, HW OR HWR	TYPE L HARD DRAWN COPPER						
POTABLE WATER - 3" & LARGER (BELOW GRADE)	CW, HW OR HWR	DUCTILE IRON						
NON-POTABLE WATER (ABOVE GRADE)	NPW	TYPE L HARD DRAWN COPPER						
NATURAL GAS (ABOVE GRADE & ON ROOF)	G	SCHEDULE 40 BLACK STEEL						
NATURAL GAS (BELOW GRADE)	G	APPROVED 'PE' PIPE FOR GAS						
CONDENSATE DRAIN - 1" & SMALLER	CD	TYPE M HARD DRAWN COPPER (PVC DWV OPTIONAL)						
CONDENSATE DRAIN - 1-1/4" & LARGER	CD	TYPE DWV HARD DRAWN COPPER (PVC DWV OPTIONAL)						
NDIRECT DRAIN - 1"& SMALLER	ID	TYPE M HARD DRAWN COPPER						
NDIRECT DRAIN - 1-1/4" & LARGER	ID	TYPE L HARD DRAWN COPPER CLEANED FOR OXYGEN SERVICE						

	GAS STORAGE WATER HEATER SCHEDULE												
				TANK SIZE	ELECTRIC	CAL DATA	INPUT	RECOVERY					
MARK	MANUFACTURER	MODEL	AREA SERVED	(GALLONS)	VOLTS	PHASE	(MBH)	(GPH)	WEIGHT (LB)	NOTES			
WHG-1	A.O. SMITH	#BTH-120	CATERING KITCHEN / FRONT RR	60	120	1	120	147	460	A-D			
WHG-2	A.O. SMITH	#BTH-120	BOH RR	60	120	1	120	147	460	A-D			

NOTES:

100° TEMPERATURE RISE WITH 140°F OPERATING TEMPERATURE.

AUTOMATIC FLUE DAMPER INTERLOCKED WITH WATER HEATER FIRE CONTROL.

ULTRA LOW NOx TYPE - RESIDUAL NOx IS LESS THAN 14 ng / joule. COMPLIES WITH SCAQMD RULE 1146.2. FURNISH WITH CONDENSATE NEUTRALIZATION KIT TO MATCH HEATER INPUT, AO SMITH # CNS SERIES.

	PLUMBING EXPANSION TANK SCHEDULE											
MARK	MANUFACTURER	MODEL	TANK SIZE (GALLONS)	MIN. ACCEPTANCE VOLUME (GALLONS)	SERVICE	NOTES						
ET-1	AMTROL	ST-12	4.4	1.98	CATERING KITCHEN / FRONT RR	А						
ET-2	AMTROL	ST-12	4.4	1.98	BOH RR	Α						

CHARGE TANK WITH AIR TO IDENTICAL PRESSURE AS STATIC DOMESTIC WATER PRESSURE.

	RECIRCULATION PUMP SCHEDULE											
					HEAD	CONNECTION	ELECT					
MARK	MANUFACTURER	MODEL	LOCATION	GPM	(FT.)	SIZE	VOLTS	PH	HP	NOTES		
RP-1	BELL & GOSSETT	NBF-9U	MECH / ELEC 102G	2.5	11	3/4"	120	1	1/18			
RP-2	BELL & GOSSETT	NBF-9U	BOH 111	2.5	11	3/4"	120	1	1/18			

ALL LEAD FREE CAST BRONZE BOOSTER. PROVIDE WITH STRAINER UPSTREAM OF PUMP.

PROVIDE ADJUSTABLE, SURFACE MOUNTED AQUASTAT - HONEYWELL L6006C.

SET AQUASTAT TO SHUT OFF RECIRCULATION PUMP AT WATER HEATER SET POINT AND ON AT 10°F BELOW SET POINT. INTERLOCK PUMP "ON" - "OFF" CONTROL WITH BUILDING AUTOMATION SYSTEM, RE: MECH DRAWINGS

PUMP TO RUN CONTINUOUSLY ALL STAINLESS STEEL CONSTRUCTION WITH ECM MOTOR

PLUMBING EQUIPMENT			
EQUIPMENT			
DESIGNATION	DESCRIPTION		CFH (EACH)
WHG-1	WATER HEATER		120
WHG-2	WATER HEATER		120
		TOTAL =	240
MECHANICAL EQUIPMENT			
EQUIPMENT			
DESIGNATION	DESCRIPTION		CFH (EACH)
RTU-1	ROOF TOP UNIT		400
RTU-2	ROOF TOP UNIT		600
FCU-1	FURNACE		140
FCU-2	FURNACE		80
FCU-3	FURNACE		40
		TOTAL =	1260
		TOTAL CONNECTED LOAD =	1500
NATURAL GAS SYSTEM OPERATING PRE	ESSURE:	2 P	SI
NATURAL GAS SYSTEM SIZED WITH TOT	AL DEVELOPED LENGTH FROM		
GAS METER TO MOST REMOTE PIECE OI	F EQUIPMENT:	250	FEET
SYSTEM DESIGN PRESSURE DROP:		1.0	PSI

	GAS PRESSURE REGULATOR SCHEDULE FOR 2 PSI SYSTEMS												
			VALVE	VALVE BODY SIZE	MAX. FLOW RATE	INLET PRESSURE	OUTLET PRESSURE (INCHES WATER						
MARK	MANUFACTURER	MODEL	TYPE	(INCHES)	(CFH)	(PSI)	COLUMN)	SERVICE	NOTES				
GPR-1	PIETRO-FIORENTINI	31051	С	1/2"	552	1	7	WHG-1&2 / RTU-1 / FCU 1,2 &3	A-H				
GPR-2	PIETRO-FIORENTINI	31052	C	3/4"	665	1	7	RTU-2	A-H				

C = SELF CONTAINED "DIRECT ACTING" DIAPHRAGM TYPE WITH INTERNAL VENT LIMITER.

DROOP = 1" WATER COLUMN MAXIMUM. 65# ALUMINUM BODY, SCREWED CONNECTIONS AND OVERPRESSURE PROTECTION TO 25 PSI.

MAXIMUM FLOW RATE SCHEDULED, MATCH BODY SIZE AND MAXIMUM FLOW RATE TO EQUIPMENT FLOW RATE. REFER TO EQUIPMENT SHOP DRAWINGS FOR EXACT LOADS.

LISTED TO MEET ANSI Z21.80 / CSA6.22 WITH CSA LISTING STAMP ON REGULATORY BODY. GAS PRESSURE REGULATOR INLET PRESSURE = OPERATING PRESSURE - DESIGN FRICTION LOSS.

2 PSI MAXIMUM INLET PRESSURE AND 1 PSI MINIMUM INLET PRESSURE. PROVIDE EXTERNAL VENT LIMITER (WHERE APPROVED BY LOCAL AUTHORITIES) FOR INDOOR INSTALLATION AND INSTALL PER SPECIFICATIONS. INSTALL OUTDOORS PER SPECIFICATIONS.

# PLUMBING FIXTURE SCHEDULE

FIXTURES IN THIS SCHEDULE OR THEIR APPROVED EQUIVALENT ARE PROVIDED BY THE PLUMBING CONTRACTOR. SUBMIT SHOP DRAWINGS ON EACH OF THESE ITEMS. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION AND INSTALLATION REQUIREMENTS. VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE PLUMBING FIXTURE MOUNTING HEIGHTS.

DESCRIPTION

DOWNSPOUT NOZZLE: JAY R. SMITH # 1770T, CAST BRONZE BODY AND FLANGE. PROVIDE OUTLET SIZE AS

ELECTRIC NON-FILTERED BOTTLE FILLING STATION (ADA ACCESSIBLE): ELKAY #LZSTL8WS(VR)K BARRIER

FREE / LEAD FREE WITH BOTTLE FILLING STATION.FRONT AND SIDE PÚSH ACTUATOR BARS. STAINLESS STEEL BOWL. FLEXIBLE POLYESTER ELASTOMER SAFETY BUBBLER AND GALVANIZED STEEL FRONT AND SIDES. CHILLER WITH CAPACITY OF 8.0 GALLONS PER HOUR, 50° F DRINKING WATER AT 80° F INLET

BOTTLE FILLIN STATION: ELECTRONIC SENSOR FOR TOUCHLESS ACTIVATION WITH AUTO 20-SECOND SHUT-OFF TIMER, UNIT PROVIDES 1.1-1.5 GPM WITH LAMINAR FLOW TO MINIMIZE SPLASHING. FURNISHED

TRIM: McGUIRE # LF2165CC LEAD FREE BRASS COMPRESSION ANGLE STOP VALVE WITH RISER AND

EXTERIOR CLEANOUT: JAY R. SMITH # 4261L SERIES DUCO CAST IRON DOUBLE FLANGED HOUSING WITH HEAVY DUTY SECURED SCORIATED CAST IRON COVER WITH LIFTING DEVICE AND CLEANOUT BODY WITH

FLOOR CLEANOUT: JAY R. SMITH, CAST IRON BODY, FLASHING FLANGE WITH CLAMPING COLLAR, ABS PLUG, AND ADJUSTABLE, ROUND, SECURED, NICKEL BRONZE, TOP. #4031L (-F-C), SCORIATED TOP FOR EXPOSED,

INSTALLATION IN CARPETED FLOOR AREA(S), # 4151 (-F-C), 1/8" RECESS FOR INSTALLATION IN TILED FLOOR AREA(S), # 4191 (-F-C), 1/2" RECESS FOR INSTALLATION IN TERRAZZO AND SIMILAR POURED FLOOR AREA(S).

FLOOR DRAIN: JAY R .SMITH # 2005L (-A), CAST IRON BODY AND CLAMPING COLLAR, ADJUSTABLE 6" ROUND

INTERIOR, ANCHOR FLANGE WITH SEEPAGE HOLES, CLAMP COLLAR, WHITE ABS SEDIMENT BUCKET, AND 8-1/2" SQUARE NICKEL BRONZE RIM AND HALF GRATE. USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON

FAUCET: CHICAGO FAUCET # 897-CP FAUCET WITH WALL BRACE, INTEGRAL VACUUM BREAKER, PAIL HOOK.

TRAP SEAL: PROVIDE TRAP SEAL PER SPECIFICATIONS FOR ACTUAL FLOOR DRAIN MODEL AND SIZE. FLOOR SINK: JAY R. SMITH # 3101L (-12). 6" DEEP CAST IRON BODY WITH ACID RESISTING ENAMELED

HOSE BIBB: PRIER PRODUCTS # C-255NP.75, SATIN NICKEL PLATED BRASS 3/4" FEMALE INLET, 3/4" THREADED HOSE CONNECTION, LOOSE KEY HANDLE, AND ASSE 1011 INTEGRAL VACUUM BREAKER.

JANITOR'S SINK: STERN-WILLIAMS # MTB-3624, 36" x 24" x 10" HIGH TERRAZZO BASIN WITH INTEGRAL

TRIM: # BP TYPE 304, 20 GAUGE, STAINLESS STEEL WALL SURROUNDS, # T-35 THREE FOOT LONG REINFORCED HOSE WITH 3/4" CHROME COUPLING AND WALL HOOK, # V-70 EXTRUDED VINYL BUMPER

LAV-1 WALL-MOUNTED LAVATORY (ADA ACCESSIBLE): SLOAN # AD-84000 "AER-DEC" 120" x 23-1/2" RECTANGULAR

FAUCET: SLOAN # ETX-250-BAT-ISM-BN-0.5GPM-MLM-IR-FCT, "BASYS" BATTERY POWERED, SENSOR OPERATED FAUCET, INTEGRATED SIDE MIXER, BRUSHED NICKEL FINISH, 0.5 GPM, MULTI-LAMINAR SPRAY,

SOAP DISPENSER: SLOAN # ESD-500-BN, DECK-MOUNTED FOAM DISPENSE, BRUSHED NICKEL FINISH,

CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND

TRIM: McGUIRE # 155A GRID DRAIN WITH TAILPIECE, McGUIRE # LF2165CCLK LEAD FREE BRASS LOOSE KEY COMPRESSION ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE # B8872CF 1-1/4" 17 GAUGE

ABS PLASTIC PLUG WITH GASKET SEAL AND PUSH-ON JOINT. REFER TO SPECIFICATIONS FOR

FLUSH WITH FINISHED FLOOR, APPLICATION(S), # 4031L (-F-C-Y), STAINLESS STEEL MARKER FOR

NICKEL BRONZE STRAINER, USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS.

AND 3/4" MALE HOSE THREADED OUTLET. SECURE FAUCET IN WALL WITH BACKBOARD.

ESCUTCHEON, McGUIRE # B8872CF 1-1/4" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, AND SUITABLE CARRIER WITH STANCHIONS TO

DCV-1 DOUBLE CHECK VALVE BACKFLOW PREVENTER: WATTS # LF007QT-S, MEETING ASSE 1015, LEAD FREE CAST

BRONZE BODY, SCREW DRIVER SLOTTED TEST COCKS, QUARTER TURN BALL VALVES, AND STRAINER.

PLUMBING PLAN MARK

SHOWN ON PLANS.

INSTALLATION.

TEMPERATURE AT 90° F ROOM TEMPERATURE.

REFER TO SPECIFICATIONS FOR INSTALLATION.

PROVIDE WITH HYDRANT BOX C-155BX1.

GUARD, AND # T-40 24" STAINLESS STEEL MOP HANGER.

4-STATION WALL MOUNTED CORIAN/QUARTZ SINK.

BATTERY POWERED, SENSORED OPERATED.

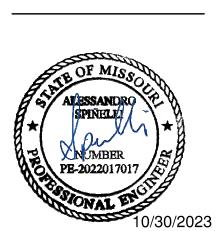
STAINLESS STEEL DRAIN BODY.

INFRARED SENSOR

WITH GALVANIZED STEEL WALL MOUNTING BOX FRAME.

ELECTRICAL REQUIREMENTS: 120-VOLT, 5 FULL LOAD AMPS





ALESSANDRO . SPINELLI LICENSE # PE-2022017017

ESCUTCHEON, CONCEALED ARM CARRIER WITH STANCHIONS TO FLOOR, PLUMBEREX "PRO-EXTREME" # X-4222 INSULATION KIT FOR WATER AND WASTE PIPES. LAV-2 WALL-MOUNTED LAVATORY (ADA ACCESSIBLE): SLOAN # AD-81000 "AER-DEC" 30" x 23-1/2" RECTANGULAR 1-STATION WALL MOUNTED CORIAN/QUARTZ SINK. FAUCET: SLOAN # ETX-250-BAT-ISM-BN-0.5GPM-MLM-IR-FCT, "BASYS" BATTERY POWERED, SENSOR OPERATED FAUCET, INTEGRATED SIDE MIXER, BRUSHED NICKEL FINISH, 0.5 GPM, MULTI-LAMINAR SPRAY SOAP DISPENSER: SLOAN # ESD-500-BN, DECK-MOUNTED FOAM DISPENSE, BRUSHED NICKEL FINISH, BATTERY POWERED, SENSORED OPERATED. TRIM: McGUIRE # 155A GRID DRAIN WITH TAILPIECE, McGUIRE # LF2165CCLK LEAD FREE BRASS LOOSE KEY COMPRESSION ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE # B8872CF 1-1/4" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, CONCEALED ARM CARRIER WITH STANCHIONS TO FLOOR, PLUMBEREX "PRO-EXTREME" # X-4222 INSULATION KIT FOR WATER AND WASTE PIPES.

NW-1 NON-FREEZE WALL HYDRANT: PRIER PRODUCTS # C-634NBX1, SATIN NICKEL PLATED BRASS 1" MALE INLET BY 3/4" FEMALE INLET, 3/4" THREADED HOSE CONNECTION, LOOSE KEY HANDLE, HYDRANT LENGTH AS REQUIRED FOR INSTALLED WALL THICKNESS, ADJUSTABLE WALL CLAMP, BRASS BOX WITH SATIN NICKEL PLATED FINISH AND INTEGRAL ASSE 1052 DOUBLE CHECK VACUUM BREAKER.

ORD-1 OVERFLOW ROOF DRAIN: JAY R. SMITH # 1080Y (-E0X-C-R-CID), 15" DIAMETER CAST IRON BODY. FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, SUMP RECEIVER, HUBLESS OUTLET, FIXED EXTENSION -HEIGHT AS REQUIRED BY INSTALLED INSULATION THICKNESS, CAST IRON DOME BOLTED OR LOCKED DOWN

AND 2" HIGH WATER DAM. PROVIDE OUTLET SIZE AS SHOWN ON PLANS. RD-1 ROOF DRAIN: JAY R. SMITH # 1010Y (-E0X-C-R-CID), 15" DIAMETER CAST IRON BODY, FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, SUMP RECEIVER, HUBLESS OUTLET, FIXED EXTENSION – HEIGHT AS REQUIRED BY INSTALLED INSULATION THICKNESS, AND CAST IRON DOME BOLTED OR LOCKED DOWN. PROVIDE OUTLET SIZE AS SHOWN ON PLANS.

RH-1 ROOF NON-FREEZE POST HYDRANT: MAPA PRODUCTS # MPH-24FP FREEZE PROOF POST HYDRANT MEETING ASSE #1057 WITH BLACK POWDER COATED CAST ALUMINUM WEATHER-GUARD DOME HANDLE. STAINLESS STEEL SHROUD WITH WELDED STAINLESS STEEL FLANGE, UNDER DECK CLAMP, BRONZE GLOBE ANGLE VALVE, 3/4" HOSE CONNECTION, QUICK DISCONNECT WITH BUILT-IN VACUUM BREAKER, STAINLESS STEEL RESERVOIR.

SINK: ELKAY # 3C10X14-2-12X, 58" x 19-13/16" X 43-3/4" DEPENDABILT STAINLESS STEEL, 16 GAUGE TYPE 300 STAINLESS STEEL, 3-COMPARTMENT SINK WITH 12" LEFT AND RIGHT DRAINBOARDS AND STAINLESS STEEL LEGS, AND CENTER DRAIN PLACEMENT. FAUCET: CHICAGO FAUCET # 631-218017AB 8" BACK MOUNT FAUCET WITH 7 1/4" - 8 3/4" ADJUSTABLE "G" SUPPLY ARMS, VANDAL RESISTANT #317 WRISTBLADE HANDLES, GN2A GOOSENECK SPOUT, # E36VP 1.5 GPM VANDAL RESISTANT LAMINAR FLOW AERATOR, QUARTER TURN CERAMIC CARTRIDGES TRIM: (3) ELKAY # LK24RT GRID STRAINERS WITH LEVER HANDLE AND 1-1/2" TAILPIECE, AND 1-1/2" HARD COPPER TYPE "DWV" FABRICATED INDIRECT WASTE LINE ROUTED TO FLOOR SINK.

SK-2 HAND SINK ADA ACCESSIBLE): ELKAY ## ELVWO2219, 22" x 19" X 5-1/2" RECTANGULAR, WALL MOUNTED, 18 GAUGE TYPE 304 STAINLESS STEEL, WITH BUFFED SATIN FINISH, REAR CENTER DRAIN PLACEMENT AND BOTTOM ONLY PADS FAUCET: CHICAGO FAUCET # 895-207589AB 4" CENTERSET LEAD FREE FAUCET WITH VANDAL RESISTANT # 369 LEVER HANDLES, GN1A GOOSENECK SPOUT, # E67VP 0.5 GPM VANDAL RESISTANT, LAMINAR FLOW AERATOR, QUARTER TURN CERAMIC CARTRIDGES. TRIM: McGUIRE # "PRODRAIN2" GRID DRAIN WITH 1-1/2" 17 GAUGE TAILPIECE, McGUIRE # LF2165CCLK LEAD FREE BRASS LOOSE KEY COMPRESSION ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE # B8912CF 1-1/2" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, WALL BRACKET, PROVIDE BACKBOARD AND SECURE FIXTURE TO IT,

AND PLUMBEREX "PRO-EXTREME" # X-4222 INSULATION KIT FOR WATER AND WASTE PIPES. THERMOSTATIC MIXING VALVE: POWERS # LFG480, SOLID LEAD FREE BRASS OR BRONZE BODY, THERMOSTATIC WAX ELEMENT, CORROSION RESISTANT INTERNAL PARTS, AND INTEGRAL CHECKS, ASSE 1070 COMPLIANT, CAPABLE OF 1.6 GPM WITH A 20 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 0.25 GPM. SET TEMPERATURE TO 110F FOR DUAL TEMPERATURE LAVATORIES AND HAND SINKS, 100F FOR SINGLE TEMPERATURE LAVATORIES AND HAND SINKS AND 120F FOR SINKS. MOUNT BELOW THE PLUMBING FIXTURE WHERE INDICATED ON PLAN(S).

TIME SWITCH: INTERMATIC #ET1705CSPST, 7 DAY, ONE CIRCUIT-SINGLE POLE SINGLE THROW, ELECTRONIC TIME SWITCH OR EQUAL BY TORK. TIME SWITCH SHALL BE MOTOR RATED (1 H.P. @ 120 VOLT, SINGLE PHASE), MINIMUM OF 20 SET POINTS (14 ON/OFF CYCLES) AND BATTERY BACK UP. COORDINATE WITH DIVISION 16 FOR INSTALLATION AND INTERLOCK OF TIME SWITCH IN SERIES WITH THE AQUASTAT AND RECIRCULATION PUMP.

URINAL: AMERICAN STANDARD # 6561.017 "TRIMBROOK" WHITE VITREOUS CHINA FIXTURE WITH FLUSHING RIM, 3/4" TOP SPUD, AND SIPHON FLUSH ACTION. VALVE: SLOAN "OPTIMA - SLOAN MODEL" # 186 ES-S TMO 0.125 GALLON PER FLUSH, EXPOSED CHROME-PLATED, BATTERY OPERATED, DIAPHRAGM TYPE FLUSH VALVE WITH CHLORAMINE RESISTANT DIAPHRAGM AND PROTECTED ORIFICE, OSCILLATING ADA COMPLIANT HANDLE WITH VANDAL RESISTANT CAP, ESCUTCHEON, INTEGRAL SCREWDRIVER STOP, VACUUM BREAKER, 3/4" FLUSH TUBE, AND SWEAT ADAPTER KIT.

TRIM: SUITABLE CARRIER WITH STANCHIONS TO FLOOR. URINAL (ADA ACCESSIBLE): AMERICAN STANDARD # 6561.017 "TRIMBROOK" WHITE VITREOUS CHINA FIXTURE WITH FLUSHING RIM, 3/4" TOP SPUD, AND SIPHON FLUSH ACTION. VALVE: SLOAN "OPTIMA - SLOAN MODEL" # 186 ES-S TMO 0.125 GALLON PER FLUSH, EXPOSED CHROME-PLATED, BATTERY OPERATED, DIAPHRAGM TYPE FLUSH VALVE WITH CHLORAMINE RESISTANT DIAPHRAGM AND PROTECTED ORIFICE. OSCILLATING ADA COMPLIANT HANDLE WITH VANDAL RESISTANT CAP, ESCUTCHEON, INTEGRAL SCREWDRIVER STOP, VACUUM BREAKER, 3/4" FLUSH TUBE, AND SWEAT ADAPTER KIT.

TRIM: SUITABLE CARRIER WITH STANCHIONS TO FLOOR. WALL-MOUNTED WATER CLOSET: AMERICAN STANDARD # 2257.001 "AFWALL" WHITE VITREOUS CHINA FIXTURE WITH ELONGATED BOWL, 1.28 GALLON PER FLUSH, AND DIRECT-FED SIPHON JET ACTION. MEETS DEFINITION FOR HIGH EFFICIENCY TOILET (HET). VALVE: SLOAN "G2 OPTIMA PLUS" # 8111-1.28, 1.28 GALLON PER FLUSH EXPOSED, CHROME-PLATED. TOP MOUNTED PLASTIC AND CHROME PLATED METAL HOUSING WITH OVERRIDE BUTTON, BATTERY POWERED SENSOR OPERATED, DIAPHRAGM TYPE FLUSH VALVE WITH CHLORAMINE RESISTANT DIAPHRAGM WITH PROTECTED ORIFICE, OSCILLATING HANDLE, ESCUTCHEON, INTEGRAL SCREWDRIVER STOP WITH VANDAL RESISTANT CAP, VACUUM BREAKER, SOLID RING PIPE SUPPORT, AND SWEAT ADAPTER KIT. TRIM CHURCH # 9500SSC WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, HEAVY DUTY, SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES AND STAINLESS STEEL BOLTS. PROVIDE SUITABLE FIXTURE

WC-2 WALL-MOUNTED WATER CLOSET (ADA ACCESSIBLE): AMERICAN STANDARD # 2257.001 "AFWALL" WHITE VITREOUS CHINA FIXTURE WITH ELONGATED BOWL, 1.28 GALLON PER FLUSH, AND DIRECT-FED SIPHON JET ACTION. MEETS DEFINITION FOR HIGH EFFICIENCY TOILET (HET). VALVE: SLOAN "G2 OPTIMA PLUS" # 8111-1.28, 1.28 GALLON PER FLUSH EXPOSED, CHROME-PLATED, TOP MOUNTED PLASTIC AND CHROME PLATED METAL HOUSING WITH OVERRIDE BUTTON, BATTERY POWERED SENSOR OPERATED. DIAPHRAGM TYPE FLUSH VALVE WITH CHLORAMINE RESISTANT DIAPHRAGM WITH PROTECTED ORIFICE, OSCILLATING HANDLE, ESCUTCHEON, INTEGRAL SCREWDRIVER STOP WITH VANDAL RESISTANT CAP. VACUUM BREAKER. SOLID RING PIPE SUPPORT. AND SWEAT ADAPTER KIT. TRIM: CHURCH # 9500SSC WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, HEAVY DUTY, SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES AND STAINLESS STEEL BOLTS. PROVIDE SUITABLE FIXTURE

FLOOR-MOUNTED WATER CLOSET (ADA ACCESIBLE): AMERICAN STANDARD # 214AA.104 "CADET PRO" TANK TYPE WHITE VITREOUS CHINA FIXTURE WITH ELONGATED BOWL, 1.28 GALLON PER FLUSH, AND SIPHON FLUSH ACTION WITH 3" OVERSIZED FLAPPER VALVE, Map SCORE OF 1,000g AND CLOSE-COUPLED TANK WITH LEFT HAND TRIP LEVER. INSTALL TRIP LEVER ON THE WIDE SIDE OF THE STALL. BOWL # 3517A.101 AND RIGHT HAND TRIP LEVER TANK # 4188A.104. REFERENCE DRAWINGS FOR EXACT NUMBER OF RIGHT AND LEFT HAND TRIP LEVER TANKS REQUIRED. TRIM- CHURCH # 9500SSCT WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, HEAVY DUTY, SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES AND STAINLESS STEEL BOLTS, McGUIRE # LF2166CC LEAD FREE BRASS ANGLE STOP VALVE WITH RISER AND CHROME-PLATED ESCUTCHEON

WCO WALL CLEANOUT: JAY R. SMITH # 4530S, CAST IRON CLEANOUT TEE, COUNTER SUNK PLUG, STAINLESS STEEL ROUND COVER AND SCREW, AND IRON PLUG WITH GASKET SEAL. REFER TO SPECIFICATIONS FOR

WHA WATER HAMMER ARRESTER: PRECISION PLUMBING PRODUCTS, HARD DRAWN COPPER BODY WITH WROUGHT COPPER FITTINGS. PISTON TYPE WITH LUBRICATED EPDM "O" RING SEALS. MEETING ASSE 1010 OR PDI WH-201. PROVIDE PDI SIZES "A" THROUGH "F" AS SHOWN ON PLANS. PROVIDE SIZE "A" UNLESS

SHOWN OTHERWISE ON THE PLANS.

DESCRIPTION DATE STATUS: PERMIT SET DATE: 11/01/2023 DRAWN BY Author CHECKED BY: Checker © GLMV Architecture, Inc. All work herein is the property of GLMV Architecture the express written consent of GLMV Architecture. Inc

**PLUMBING** 

**SCHEDULES** 

CLEANOUT FERRULE AS PROVIDE 18"x18"x8" SPECIFIED. APPLY TEFLON THICK 3000 PSI CLASS JOINT COMPOUND TO "C" CONCRETE PAD. CLEANOUT PLUG THREADS. REINFORCED WITH 6x6x1/4 WIRE MESH. RISER SHALL BE CAST IRON, CROWN TO SHED WATER SAME SIZE AS SEWER UP TO TROWEL SMOOTH AND 4" MAXIMUM, OF LENGTH AS EDGE. OMIT IF ECO IS IN REQUIRED BY DEPTH OF SIDEWALK. SEWER. SURROUND JOINT WITH CONCRETE PROVIDE CAST IRON LONG SWEEP AT END OF LINE, OR HORIZONTAL SANITARY OR COMBINATION WYE AND EIGHTH STORM DRAIN, SIZE AS BEND IN RUN OF LINE, -- 9 SHOWN ON PLAN, TYPE OF REDUCING TYPE IF REQUIRED. PIPE PER SPECIFICATIONS. ENTER TOP OF PIPE. DIRECTION OF FLOW LOCATE EXTERIOR CLEANOUTS AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES, AT MINIMUM 75 FOOT INTERVALS ON STRAIGHT RUNS, AND WHERE SHOWN ON PLANS. PROVIDE EARTH BACKFILL AND COMPACTION PER ARCHITECTURAL SPECIFICATIONS. REFER TO SPECIFICATIONS AND SCHEDULES FOR MORE INFORMATION.

PAVEMENT OR

GRADE: CUT AS

REQUIRED AND

MATCH EXISTING

PATCH TO

**CAST IRON CLEANOUT** 

HEAVY DUTY COVER

SCREWED PLUG IN

HOUSING WITH "CO" CAST IN

ROOF DRAIN OR OVERFLOW ROOF DRAIN. REFER TO PLANS FOR OUTLET SIZE. **INSULATED ROOF** 

MINIMUM 12" ABOVE ROOF

HEIGHT OF PARAPET WHEN

WITHIN 10' OF PARAPET, OR

NORMALLY. EXTEND TO

ABOVE MAXIMUM LOCAL

SNOW DEPTH.

STRUCTURE.

\_\_\_\_\_ ROOF DECK

ANCHOR PIPE TO

MINIMUM 12" BELOW

FOR TYPE OF PIPE,

FITTINGS, AND

REFER TO SPECIFICATIONS

CONNECTORS. REFER TO

PLANS FOR SIZE(S) AND

GRAVEL STOP AND MEMBRANE CLAMP TO SECURE FLASHING EXTENSION SLEEVE, WITH HEIGHT AS REQUIRED TO STRUCTURE ACCOMMODATE ROOF REFER TO SPECIFICATIONS INSULATION THICKNESS — FOR TYPE OF PIPE, FITTINGS. SUMP RECEIVER AND CONNECTORS. UNDERDECK CLAMP PROVIDE PIPE HANGER AS CLOSE TO JOINT AS PROVIDE LONG SWEEP POSSIBLE TO TAKE WEIGHT ELBOW AT START OF RUN. OFF ROOF DRAIN. PROVIDE WYE COMBO - SLOPE PIPE AS INDICATED SLOPE PIPE AS INDICATE
ON FLOOR PLAN AND IN FITTING WHERE MORE THAN ONE ROOF DRAIN IS SPECIFICATIONS. REFER TO CONNECTED TO A SINGLE PLANS FOR PIPE SIZE. HORIZONTAL PIPE

LOCATE VTR MINIMUM THREE FEET FROM PROPERTY LINE. TEN FEET

OR FRESH AIR INTAKE, TWENTY FIVE FEET FROM ANY OPENING OR FRESH AIR INTAKE IN MEDICAL FACILITIES AND ONE FOOT FROM ANY

VERTICAL SURFACE. REFER TO LOCAL CODES FOR OTHER VENT

TERMINATION REQUIREMENTS. LOCATE VTR MINIMUM 18" FROM

VENT PIPE INSIDE BUILDING PER SPECIFICATIONS.

HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING

ADJACENT WALL, PARAPET, EXPANSION JOINT, ROOF DRAIN, EQUIPMENT

CURB, OR OTHER ROOF FEATURE. OFFSET IN CEILING SPACE WHERE

REQUIRED TO MEET THESE CONDITIONS. INSULATE LAST SIX FEET OF

JNDERDECK CLAMP AND SUMP RECEIVER ARE NOT REQUIRED WHEN ROOF DRAIN BODY IS CAST INTO CONCRETE ROOF. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. INSULATE ROOF DRAIN SUMP AND PIPE PER SPECIFICATIONS. LOCATE DRAINS WHERE SHOWN ON ARCHITECTURAL PLANS. VERIFY WITH STRUCTURAL PLANS FOR ROOF LOW POINTS. COORDINATE WITH STRUCTURAL DRAWINGS REGARDING PROVISION FOR SUPPLEMENTARY STEEL FRAMING AROUND ROOF OPENING. COORDINATE ROOF DRAIN INSTALLATION WITH ARCHITECTURAL DETAILS AND ROOFING INSTALLATION. SET OVERFLOW DRAIN WEIR ELEVATION 2" ABOVE PRIMARY ROOF DRAIN WEIR ELEVATION.

COORDINATE

FLASHING AND

ROOF INSULATION

PROVIDE SLEEVE IF

ROOF DECK.

INSTALLATION OF

COUNTERFLASHING -

CORE DRILL ROOF OR

REQUIRED BY TYPE OF

PROVIDE FIRE STOP

AND SLEEVE OR

VENT THRU ROOF -

SEAL BETWEEN PIPE

PROVIDE PIPE INCREASER ON

CODE REQUIRES A MINIMUM 3"

SMALLER VENT IF/WHERE

PIPE REDUCED FROM ADAPTER(S) AS GAS FIRED ROOF-TOP BRANCH PIPE SIZE TO UNIT REQUIRED TO CONNECT AIR CONDITIONING UNIT CONNECTION SIZE, AT UNIT CONDENSATE DRAIN PIPE OR MAKEUP AIR UNIT CONNECTION STUB TO STUB ON EQUIPMENT. PER MECHANICAL PLANS PROVIDE DRAIN PIPE **INSTALL TEE TEN PIPE** SIZED TO MATCH DIAMETERS MINIMUM EQUIPMENT CONNECTION DOWNSTREAM OF PRESSURE SIZE OR CODE REQUIRED REGULATOR, IF REGULATOR SIZE WHICHEVER IS SHOWN ON PLANS LARGER. 3/4" MINIMUM. GROUND JOINT PIPE UNION GAS PRESSURE REGULATOR PROVIDE TRAP DEPTH IF SHOWN ON PLANS, RE: GREATER OF 4" OR SCHEDULES, AND 1/2" PLUS STATIC SPECIFICATIONS PRESSURE IN INCHES GAS COCK FULL SIZE OF OF WATER COLUMN BRANCH PIPE. REFER TO PLAN 6" TALL VENT OPEN TO FOR SIZE OF BRANCH PIPE ATMOSPHERE ONLY BRANCH OFF TOP OF GAS WHERE REQUIRED BY PIPE MAIN. REFER TO CODE FOR LENGTH OF PLANS FOR PIPE SIZES DRAIN PIPE ARRANGE PIPE AND ELBOWS TO DISCHARGE AWAY FROM ALLOW FOR EXPANSION AND SERVICE AREAS OF UNIT, CONTRACTION OF PIPE RUNS OR AT ROOF DRAIN OR **GUTTER IF REQUIRED BY** LINE SIZE TEE, EXIT THRU LOCAL AUTHORITIES OR SIDE OUTLET SHOWN ON PLANS 3" LONG LINE SIZE DIRT LEG SUPPORT PIPE ON ROOF WITH BOTTOM MINIMUM 3-1/2" PER SPECIFICATIONS -MINIMUM ABOVE ROOF

ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. PROVIDE CONNECTIONS SHOWN IN EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. VERIFY CONNECTION LOCATIONS BEFORE INSTALLING PIPE RUNS. REFER TO SPECIFICATIONS FOR PIPE AND FITTING MATERIALS AND INSTALLATION. PROVIDE DIELECTRIC UNION IF CONNECTING DISSIMILAR METALS. FOR PIPE SIZE(S) REFER TO FLOOR PLANS, OR CODE REQUIREMENTS FOR HVAC UNIT TONNAGE. PROVIDE GAS COCK, UNION AND DIRT LEG SAME SIZE AS BRANCH PIPE. SLOPE CONDENSATE PIPE AS MUCH AS POSSIBLE TOWARD DISCHARGE, 2% MINIMUM. PROVIDE CLEANOUTS IN ENDS AND TURNS OF PIPE PER LOCAL CODE REQUIREMENTS: ADAPTER WITH THREADED CLEANOUT PLUG. PROVIDE MINIMUM 6" CLEARANCE TO ROOF UNDER PIPES.

COILED SOFT

WATER INLET.

PLANS.

PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT

INSTALLATION INSTRUCTIONS. PROVIDE DUPLICATE WATER AND

FIELD CONDITIONS AND MEET EQUIPMENT MANUFACTURER'S

DRAIN CONNECTIONS IF DUAL CUBERS ARE FURNISHED.

COLD WATER

CONCEALED

IN PARTITION.

ANGLE STOP VALVE

WITH WHEEL-HANDLE

AND ESCUTCHEON AT

ROUGH-IN LOCATION

SHOWN ON KITCHEN

PROVIDE DCV AS

SHOWN ON PLAN.

CONNECT TO

CONDENSATE

CUBER

REFER TO

DRAIN AND DRAIN

PAN OUTLETS ON

"INDIRECT DRAIN

DETAIL FOR MORE

INSTALLATION"

INFORMATION -

**EQUIPMENT DRAWINGS.** 

WATER HAMMER ARRESTER, PDI SIZE ADAPTERS AND SIX FOOT LENGTH OF COPPER TUBING WITHOUT KINKS, SIZE OF CUBER WATER INLET. CONNECT CLEANOUTS FROM SHUT-OFF AT ELBOWS VALVE TO CUBER GREATER THAN 45° - 6" TALL VENT OPEN TO ATMOSPHERE CONNECT TO ICE BIN DRAIN OUTLET. DO NOT COMBINE WITH CUBER DRAIN PIPE. FLOOR SINK WHERE SHOWN ON FLOOR

 TRIPLE-COMPARTMENT SINK FLOW CONTROL VALVE CLEANOUT DISCHARGE INTO FLOOR SINK WITH A MINIMUM AIR GAP OF TWO TIMES THE PIPE DIAMETER 4 . 44 . . . 44 . . . 2" TYPE DWV COPPER FLOOR SINK **FABRICATED** CONTINUOUS WASTE (TYPICAL) 4"W, RE: FLOOR PLANS FOR CONTINUATION

ARRANGEMENT SHOWN IN SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. NO-HUB CAST IRON PIPE, FITTINGS AND CONNECTORS ALL AROUND SINK AND TRAP.

WATER HAMMER SHUT-OFF VALVE IN ACCESSIBLE LOCATION, ARRESTER PER SPECIFICATIONS AND ABOVE CEILING IF ANY SCHEDULE, PDI SIZE "A" 3/4" COLD WATER PIPE IF SHUT-OFF VALVE IS ☐☐☐☐☐ [ EXTERIOR BUILDING **INSTALLED ABOVE HARD** CEILING, PROVIDE ACCESS PROVIDE HYDRANT WITH DOOR PER SPECIFICATIONS — LENGTH OF SHAFT TO SUIT **INSTALL RISER INSIDE** THICKNESS OF WALL: PARTITION WHERE AVAILABLE: VERIFY REFER TO PLANS WALL HYDRANT IF RISER IS EXPOSED, ANCHOR RECESSED IN BOX PER TIGHT TO EXTERIOR WALL SPECIFICATIONS AND SCHEDULE. ELBOWS AS REQUIRED -CUT WALL AS REQUIRED, **INSTALL WALL HYDRANT** VALVE INTERIOR TO WALL **GROUT OR OTHERWISE** REPAIR WALL NEATLY WALL CLAMP AROUND FACE OF WAL HYDRANT TO SEAL INTERIOR FLOOR PENETRATION WEATHERTIGHT **INSTALL HYDRANT** APPROXIMATELY 24" ABOVE EXTERIOR GRADE, GRADE. ADJUST HEIGHT AS PAVEMENT, OR SIDEWALK REQUIRED TO SUIT MASONRY SEAMS, IF EXISTING.

ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT FIELD CONDITIONS. INSTALL PER MANUFACTURER'S INSTRUCTIONS. IN NON-FREEZING CLIMATES, PIPE MAY BE INSTALLED CONCEALED IN EXTERIOR WALL RATHER THAN EXTERIOR TO WALL AS SHOWN. REFER TO PLANS FOR LOCATION.

ADAPTER(S) AS REQUIRED TO CONNECT DRAIN PIPE TO CONDENSATE STUB(S) ON EQUIPMENT. PROVIDE DRAIN PIPE SIZED TO MATCH EQUIPMENT CONNECTION SIZE OR CODE REQUIRED SIZE WHICHEVER IS LARGER. 3/4" MINIMUM. SLOPE PIPE AS MUCH AS POSSIBLE TOWARD DISCHARGE, 2% PRESSURE (IN. W.C.) PROVIDE CLEANOUTS IN H FOR DRAW-THRU UNITS; ENDS AND TURNS OF 1" FOR BLOW-THRU UNITS; -PIPE: ADAPTER WITH THREADED CLEANOUT H/2 + PIPE DIAMETER FOR PLUG DRAW-THRU UNITS; H + PIPE DIAMETER FOR DISCHARGE BLOW-THRU UNITS; **CONDENSATE INTO** 4" MINIMUM TRAP DEPTH. -RECEPTOR WHERE SHOWN ON PLANS WITH MAINTAIN MINIMUM 1' AIR GAP PER CODE. ON CLEARANCE TO FLOOR, OR ROOF-TOP UNIT, 6" TO ROOF OR CEILING — DISCHARGE AWAY FROM SERVICE AREA, OR AT REFER TO SPECIFICATIONS FOR CONDENSATE ROOF DRAIN IF REQUIRED BY LOCAL AUTHORITIES. INSULATION REQUIREMENTS.

> ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. PROVIDE CONNECTIONS SHOWN IN EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO SPECIFICATIONS FOR PIPE AND FITTING MATERIALS AND INSTALLATION. PROVIDE DIELECTRIC UNION IF CONNECTING DISSIMILAR METALS. AT MOTORIZED EQUIPMENT ABOVE CEILING, PROVIDE NEOPRENE TUBE AND STAINLESS STEEL SCREW CLAMPS FOR FLEXIBLE CONNECTION. FOR PIPE SIZE(S) REFER TO FLOOR PLANS, OR CODE REQUIREMENTS FOR HVAC UNIT TONNAGE. PROVIDE HANGERS OR SUPPORTS PER SPECIFICATIONS. DO NOT COMBINE CONDENSATE DRAIN PIPES WITH NON-CONDENSATE INDIRECT DRAINS.

2" V, RE: FLOOR PLANS FOR CONTINUATION 180 DEGREE ELBOW BEHIND BACK SPLASH 6" ABOVE FLOODRIM

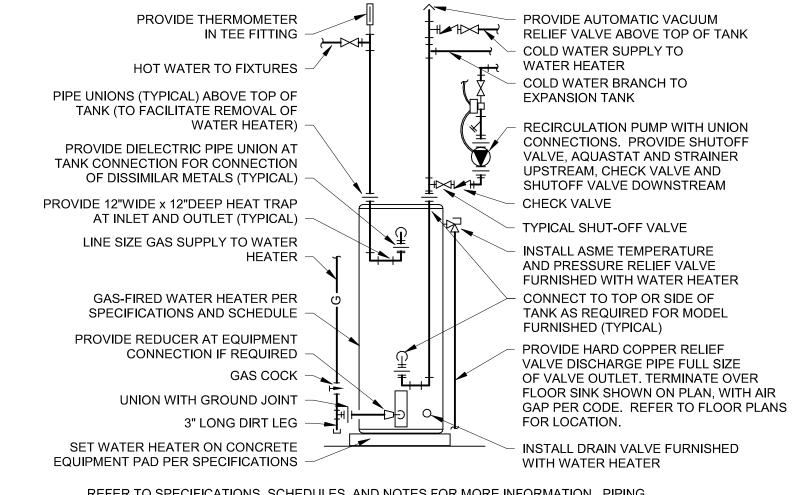
GRADE OR PAVEMENT

NATURAL GAS SERVICE

LINE -

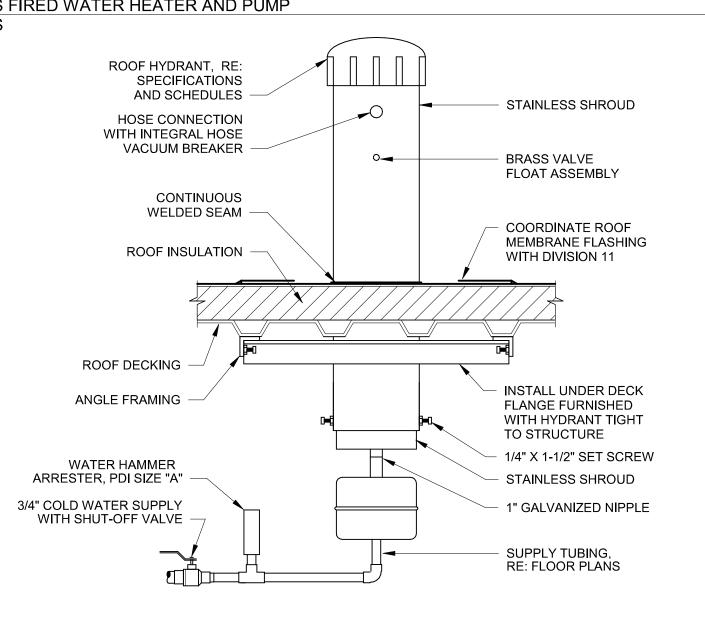
PROVIDE METAL 360° INSULATION SHIELD AND HIGH **DENSITY INSULATION OR PRE-**ENGINEERED THERMAL SIZE AND QUANTITY HANGER-SHIELD INSERT OF OF HANGER RODS PER CALCIUM SILICATE INSULATION. MANUFACTURER'S FOR PIPES 4" AND SMALLER, RECOMMENDATIONS PRE-ENGINEERED THERMAL HANGER-SHIELD INSERT OF PROVIDE TWO-PIECE FLEXIBLE UNICELLULAR PIPE CLAMP (TYP) INSULATION MAY BE PROVIDED **CUT INSULATION TO** SUPPORT NUT FIT AROUND TRAPEZE HANGER. SEAL BOTH ENDS OF EXPOSED INSULATION WITH UNINSULATED STEEL JOINT SEALANT OR PLASTIC PIPE PROVIDE PLASTIC **GALVANIC ISOLATOR** FOR COPPER PIPE UNINSULATED COPPER PIPE COLD INSULATED - PIPE INSULATION PROVIDE 1-5/8"x1-5/8" 14 GA. CHANNEL SUPPORT HOT INSULATED

> PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITONS. REFER TO SPECIFICATIONS FOR MORE INFORMATION. PIPE AND CONDUIT OF ALL TRADES MAY BE COMBINED ON THE SAME SUPPORT CHANNEL. COORDINATE SUPPORT CHANNEL LENGTH WITH PIPING AND CONDUIT TO BE SUPPORTED. SUPPORT CHANNEL SPACING SHALL BE DETERMINED BY SMALLEST PIPE TO BE SUPPORTED. CHANNEL SUPPORT MAY BE USED AS A WALL BRACKET, ATTACH TO WALL WITH ANCHOR BOLTS PER SPECIFICATIONS. FOR HORIZONTAL INSULATED PIPING, ATTACH CLAMPS AS INDICATED ABOVE, FOR VERTICAL INSULATED PIPING, ATTACH CLAMPS TO THE PIPE AND SEAL INSULATION AT BOTH CLAMP ENDS.



REFER TO SPECIFICATIONS, SCHEDULES, AND NOTES FOR MORE INFORMATION. PIPING ARRANGEMENT SHOWN IS SCHEMATIC; ADJUST TO SUIT FIELD CONDITIONS. VERIFY CONNECTION SIZES AND LOCATIONS WITH WATER HEATER FURNISHED. REFER TO FLOOR PLANS FOR PIPE SIZES AND CONTINUATIONS. PROVIDE SEISMIC STRAP OR BRACING AND FLEXIBLE CONNECTORS ON PIPE WHEN REQUIRED BY LOCAL AUTHORITIES. PROVIDE HEAT TRAP ON COLD WATER SUPPLY WHEN REQUIRED BY LOCAL AUTHORITIES. POWER WIRING AND DISCONNECT SWITCH ARE SPECIFIED BY ELECTRICAL. INTERLOCK OF AQUASTAT WITH RECIRCULATION PUMP IS SPECIFIED BY ELECTRICAL

(6) GAS FIRED WATER HEATER AND PUMP



PIPING ARRANGEMENT SHOWN IS SCHEMATIC ADJUST TO SUIT FIELD CONDITIONS. RE: FLOOR PLANS FOR LOCATION.

PROVIDED UNDER DIVISION 15 COMPANY (VERIFY) GAS PIPE INSIDE BUILDING, LOCATION AND SIZE AS PRESSURE TEST FITTING SHOWN ON PLAN METER BYPASS ANCHOR RISER TO WALL AT TEN FOOT INTERVALS USING STRAINER OFFSET RISER CLAMPS PROVIDE EARTHQUAKE PIPE INCREASER **ACTIVATED AUTOMATIC GAS** REGULATOR SET AT SHUT-OFF VALVE HERE IF REQUIRED BY LOCAL DISCHARGE PRESSURE AUTHORITIES. ANCHOR VALVE INDICATED ON FLOOR PLAN. TO BUILDING WALL. WALL PENETRATION GAS COCK (TYPICAL) PER SEPARATE DETAIL METER BYPASS 6" LONG DIRT LEG AT GAS METER OF CFH BOTTOM OF RISER. CAPACITY SHOWN GAS SHUT-OFF COCK ON FLOOR PLAN -

PIPE INCREASER PIPE UNION WITH GROUND VERIFY REQUIREMENTS FOR METERING AND PIPING WITH GAS COMPANY. COORDINATE WITH GAS COMPANY WITH REGARD TO INSTALLATION OF OTHER PLUMBING UTILITIES IN VICINITY, IF ANY. APPLY FOR AND PAY GAS COMPANY FEES FOR INSTALLATION. USE WELDED OR SCREWED PIPE AND FITTINGS PER PLUMBING SPECIFICATIONS.

SECURE PIPE HANGER TO STRUCTURE (TYP) THREADED STEEL ROD WITH NUT AND WASHER BOTH SIDES (TYP). CLEVIS HANGER, SHOWN FOR CLARITY. SIZE HANGER FOR COLD · CLEVIS HANGER, PIPE OUTSIDE DIAMETER SHOWN FOR CLARITY PLUS INSULATION SIZE HANGER FOR THICKNESS. DO NOT HOT PIPE OUTSIDE PENETRATE INSULATION DIAMETER. WITH HANGER. PROVIDE A SECTION OF HIGH DENSITY INSULATION OR STYROFOAM BILLETS AT EACH HANGER OF COLD INSULATED PIPE. PROVIDE SHORT CUT INSULATION TO FIT AROUND HANGER. INSULATION SHIELD FOR LAPPING INSULATION SEAL EXPOSED JACKET OVER HIGH DENSITY INSULATION ENDS INSULATION OR WITH JOINT SEALANT STYROFOAM BILLETS. COLD PIPE HOT PIPE MAINTAIN VAPOR BARRIER

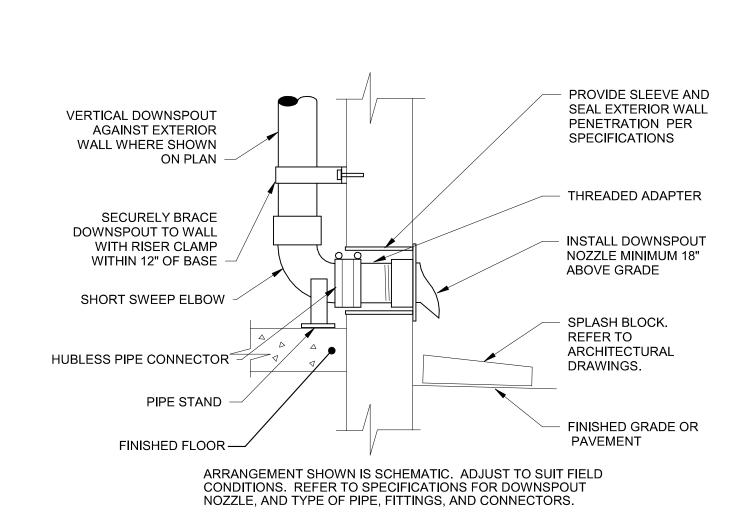
> REFER TO SPECIFICATIONS FOR INSULATION TYPES, INSULATION THICKNESSES, HANGER TYPES, HANGER ROD CONNECTIONS TO STRUCTURE AND HANGER SPACING.

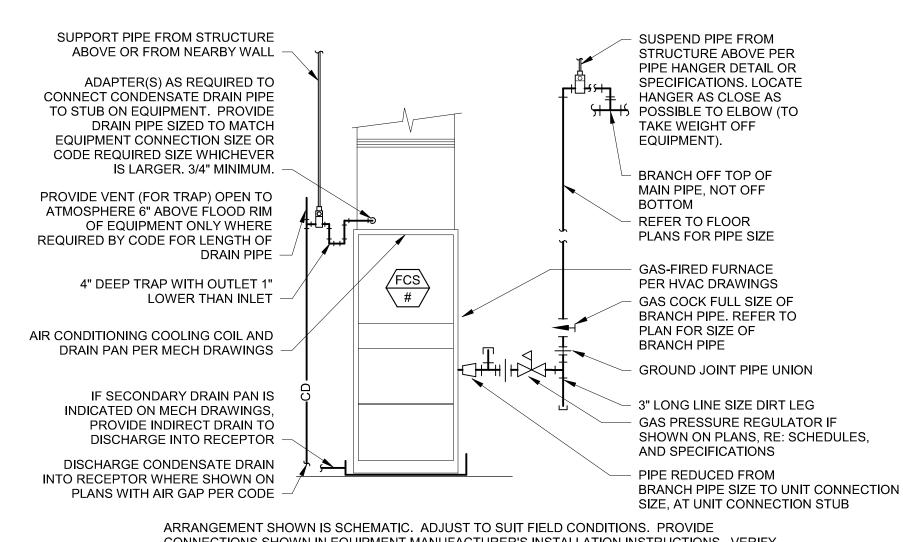
ALESSANDRO . SPINELLI LICENSE # PE-2022017017

PIPE HANGER NEXT 3/4" PIPE FROM COLD WATER SUPPLY TO TO ELBOW WATER HEATER, PROVIDE WITH NO CHECK DIELECTRIC PIPE VALVES INTERVENING UNION AT TANK FDA-COMPLIANT **CONNECTION FOR** BUTYL DIAPHRAGM -CONNECTION OF DISSIMILAR METALS WELDED STEEL XPANSION TANK WITH VALVE. FILL TANK POLYPROPYLENE LINING WITH AIR PRESSURE NSF APROVED FOR TO MATCH WATER DOMESTIC WATER SERVICE -PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION PROCEDURE. VERIFY PROPER OPERATION WHEN INSTALLED. PROVIDE SEISMIC

STRAP OR BRACING WHEN REQUIRED BY LOCAL

AUTHORITIES.



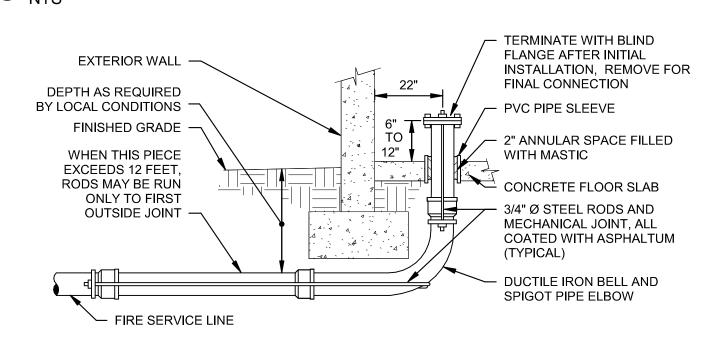


CONNECTIONS SHOWN IN EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. VERIFY CONNECTION LOCATIONS BEFORE INSTALLING PIPE RUNS. REFER TO SPECIFICATIONS FOR PIPE AND FITTING MATERIALS AND INSTALLATION. PROVIDE DIELECTRIC UNION IF CONNECTING DISSIMILAR METALS. FOR PIPE SIZE(S) REFER TO FLOOR PLANS, OR CODE REQUIREMENTS FOR HVAC UNIT TONNAGE. PROVIDE GAS COCK, UNION AND DIRT LEG SAME SIZE AS BRANCH PIPE. SLOPE CONDENSATE PIPE AS MUCH AS POSSIBLE TOWARD DISCHARGE, 2% MINIMUM. PROVIDE CLEANOUTS IN ENDS AND TURNS OF PIPE PER LOCAL CODE REQUIREMENTS: ADAPTER WITH THREADED CLEANOUT PLUG.

DESCRIPTION DATE PROJECT NO: STATUS: PERMIT SET DATE: 11/01/2023 DRAWN BY Author CHECKED BY: Checker © GLMV Architecture, Inc. All work herein is the property of GLMV Architectur the express written consent of GLMV Architecture, Inc. **PLUMBING** 

**DETAILS** 

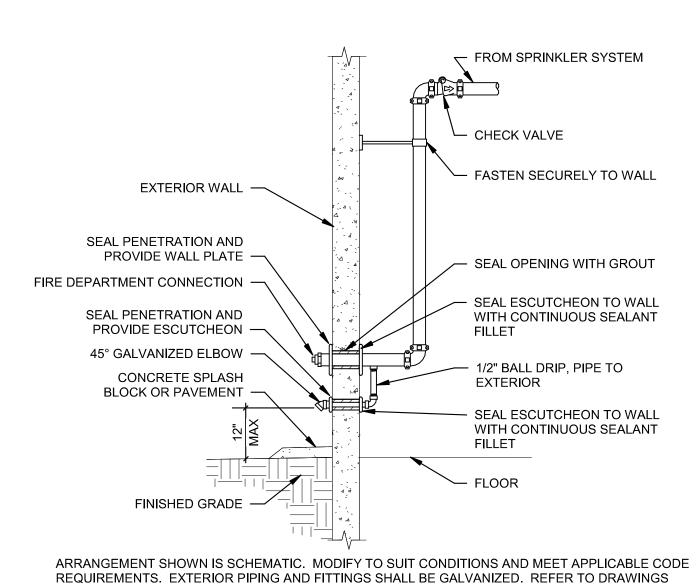
OVERHEAD ROLL-UP DOOR SPRINKLER DETAIL
 NTS



ARRANGEMENT SHOWN IS SCHEMATIC. MODIFY TO SUIT FIELD CONDITIONS AND MEET APPLICABLE CODE REQUIREMENTS. VERIFY FOUNDATION WITH ARCHITECTURAL DRAWINGS. COORDINATE WHO IS TO PROVIDE THE FIRE SERVICE ENTRY WITH THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER PRIOR TO

5 FIRE SERVICE ENT

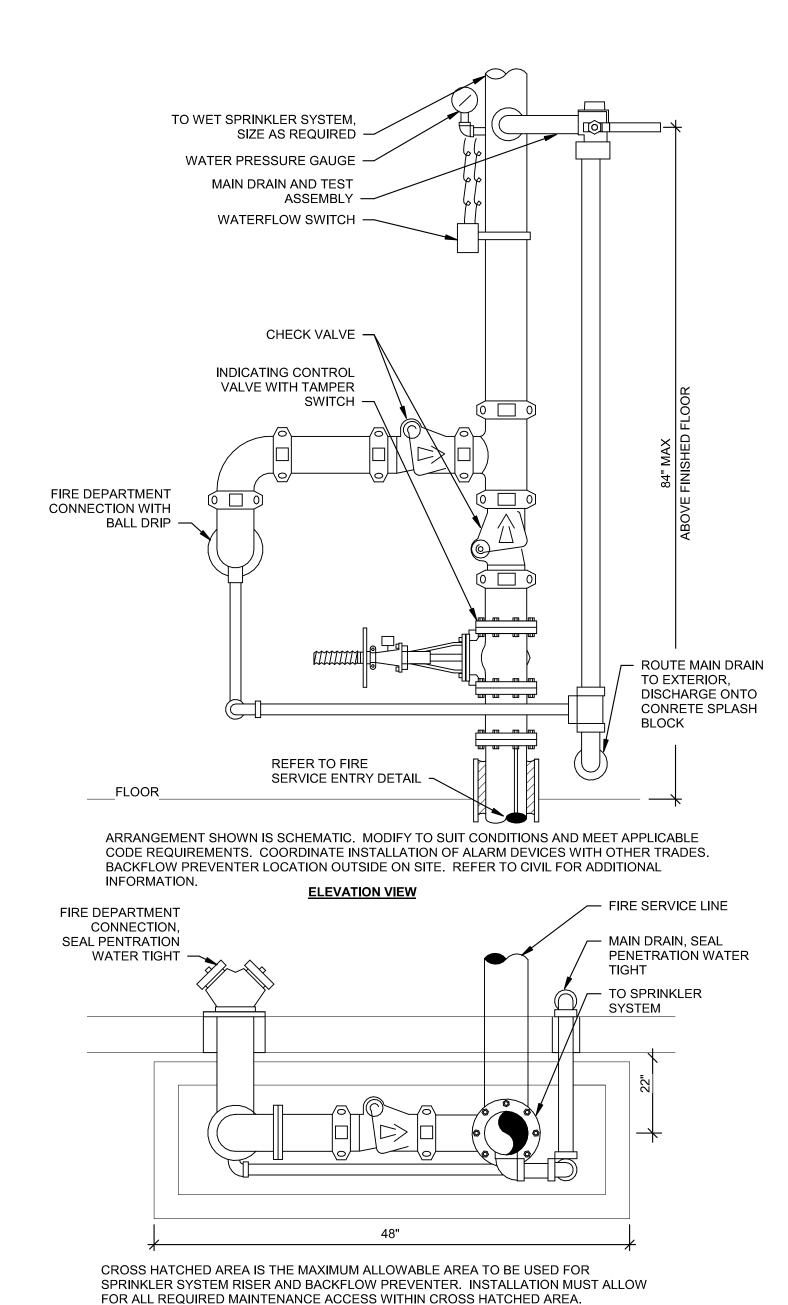
SUBMITTING BID.



FOR APPROVED LOCATIONS.

FIRE DEPARTMENT CONNECTION

NTS



<u>PLAN VIEW</u>

3 FIRE PROTECTION RISER - WET PIPE NTS

NOTIFICATION APPLIANCE CIRCUITS -FS • (2) NOTIFICATION **APPLIANCE** POWER PANEL SIGNALING LINE CIRCUIT SERVING REMOTE SYSTEM INITIATING DEVICES ANNUNCIATOR PANEL REFER TO PROJECT ALARM SPECIFICATIONS FOR REMOTE MONITORING CONTROL EXTERIOR 🗸 PANEL REQUIREMENTS WATERFLOW X ALARM

RISER DIAGRAM IS SCHEMATIC IN NATURE. NOT ALL DEVICES ARE SHOWN. REFER TO PLANS FOR EQUIPMENT QUANTITIES AND LOCATIONS.

DUCT DETECTORS MAY HAVE INTEGRAL RELAYS FOR AIR HANDLING UNIT SHUT-DOWN AND FIRE/SMOKE DAMPER CONTROL. WIRING FOR THIS FUNCTION HAS NOT BEEN SHOWN. COORDINATE WITH MECHANICAL SYSTEM INSTALLER.

REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

2 FIRE ALARM RISER DIAGRAM - ADDRESSABLE SYSTEM (NON-VOICE)
NTS

FIRE PROTECTION GENERAL NOTES:

1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.

2. SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS. SYSTEM SHALL ALSO MEET ALL APPLICABLE BUILDING CODES, FIRE CODES AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER. VERIFY REQUIREMENTS PRIOR TO BID SUBMITTAL.

3. INFORMATION ON CONTRACT DOCUMENTS IS GENERAL INFORMATION AND FOR BID PURPOSES ONLY. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE FINAL SYSTEM DESIGN AND LAYOUT OF ALL COMPONENTS, COORDINATION WITH ALL OTHER TRADES, AND SYSTEM CALCULATIONS REQUIRED FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION, ENGINEER, AND OWNER'S INSURER.

4. THE CONTRACTOR SHALL FOLLOW THE ENGINEER OF RECORD'S SYSTEM DESIGN AND LAYOUT OF ALL COMPONENTS EXCEPT WHERE MODIFICATION TO THE DESIGN IS NECESSARY. MODIFICATIONS SHALL BE REFLECTED IN THE CONTRACTOR'S SHOP DRAWINGS AND CALCULATIONS.

 DEVIATIONS FROM ENGINEER'S DESIGN WILL NOT BE CONSIDERED UNLESS A FORMALLY SUBMITTED RFI IS RECEIVED AND APPROVED.

6. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND LABOR REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS.

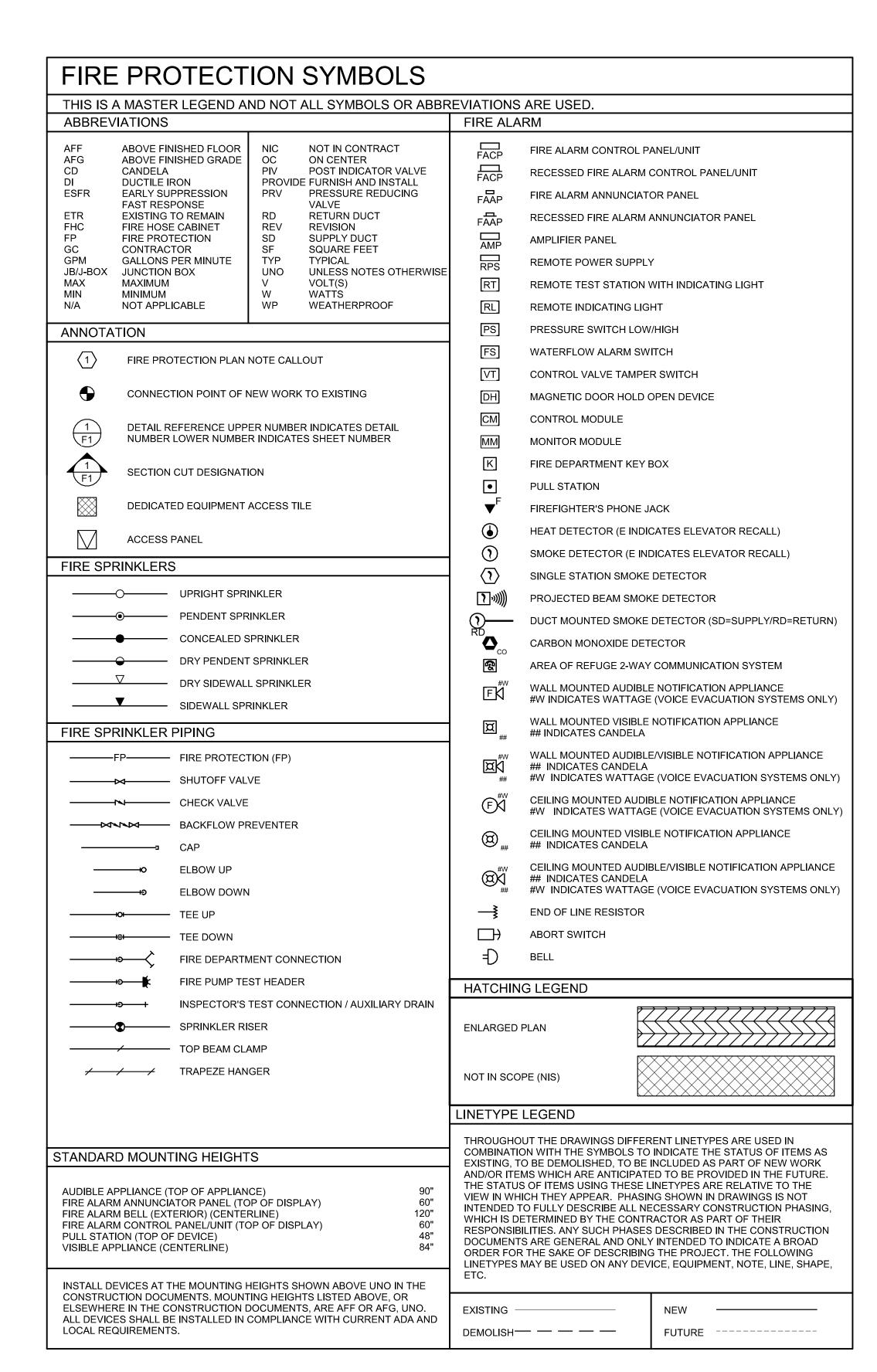
7. PROVIDE ADDITIONAL MATERIALS AND LABOR REQUIRED DUE TO LACK OF COORDINATION OR TO MEET AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.

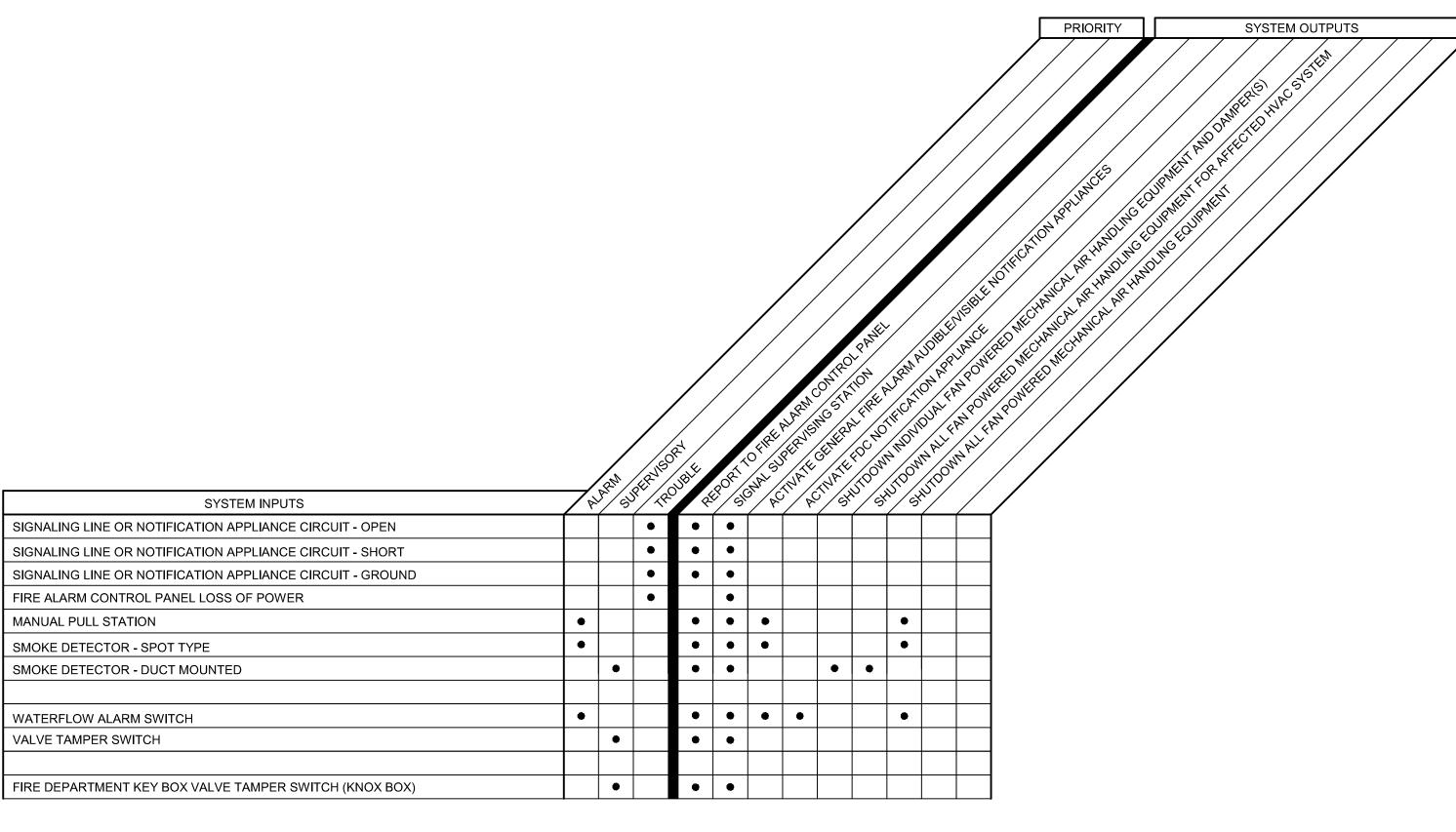
8. FORWARD COMPLETED CERTIFICATE OF COMPLETION AND CONTRACTOR MATERIAL TEST CERTIFICATES TO THE OWNER.

9. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

WATER SUPPLY INFORMATION:

WATER SUPPLY INFORMATION IS NOT AVAILABLE AT THIS TIME. CONTRACTOR SHALL SUBMIT RFI OR OBTAIN CURRENT WATER SUPPLY INFORMATION IN ACCORDANCE WITH NFPA 291 PRIOR TO BID SUBMITTAL.





CONTRACTOR TO PROVIDE ALL NECESSARY EQUIPMENT AND CONNECTIONS REQUIRED TO ACCOMPLISH THE FUNCTIONS INDICATED, AT MINIMUM. SEQUENCE OF OPERATIONS INDICATED IS SCHEMATIC. MODIFY TO SUIT CONDITIONS AND MEET APPLICABLE CODE REQUIREMENTS.

FIRE ALARM

SEQUENCE OF OPERATIONS

NTS



HENDERSON
ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
www.hendersonengineers.com
2150003907
MO. CORPORATE NO: E-556D
EXPIRES 10/31/2024



10/31/2023 CHRISTOPHER J. CULP LICENSE # PE-2013037646

LEE'S SUMMIT

LEE'S SUMMIT

DESCRIPTION DATE

PROJECT NO: 18225R21006

STATUS: PERMIT SET

DATE: 11/01/2023

DRAWN BY: PO/JS

CHECKED BY: JP/AD

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FIRE PROTECTION GENERAL NOTES AND LEGEND

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FP-000

FIRE SPRINKLER PLAN NOTES:

REFER TO CIVIL FOR CONTINUATION. FP2 FIRE DEPARTMENT CONNECTION. REFER TO

DISTRIBUTION EQUIPMENT.

FP1 MINIMUM 6-INCH FIRE PROTECTION SERVICE ENTRANCE.

SPECIFICATIONS FOR ADDITIONAL INFORMATION. FP3 DO NOT ROUTE SPRINKLER PIPING ABOVE ELECTRICAL

FP5 PROVIDE NEW FIRE ALARM CONTROL PANEL AND REMOTE POWER SUPPLY. PROVIDE A SMOKE DETECTOR ABOVE THE

FP6 PROVIDE NEW REMOTE FIRE ALARM ANNUNCIATOR PANEL.

FP10 CONNECT FIRE SPRINKLER MONITORING DEVICES TO FIRE ALARM SYSTEM. COORDINATE QUANTITY AND LOCATION OF

APPROXIMATELY BETWEEN FOUR ADJACENT SPRINKLERS. THE VERTICAL CLEARANCE FROM THE HVLS FAN TO SPRINKLER DEFLECTOR SHALL BE A MINIMUM OF 3 FEET.

FP4 INSTALL SPRINKLER PIPING TIGHT TO STRUCTURE

PANEL IN ACCORDANCE WITH NFPA 72.

FP7 PROVIDE FIRE DEPARTMENT KEY BOX FOR FIRE DEPARTMENT ACCESS PROVIDE EQUIPMENT AND CONNECTIONS NECESSARY TO MONITOR KEY BOX INTERNAL SUPERVISORY SWITCH(ES), AS REQUIRED. FP8 PROVIDE SPRINKLERS BELOW OVERHEAD ROLL-UP DOORS.

SEE FP-000/6 FOR ADDITIONAL INFORMATION.

DEVICES WITH FIRE PROTECTION SYSTEMS. FP11 HIGH VOLUME LOW SPEED FAN SHALL BE CENTERED

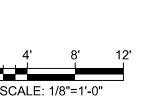
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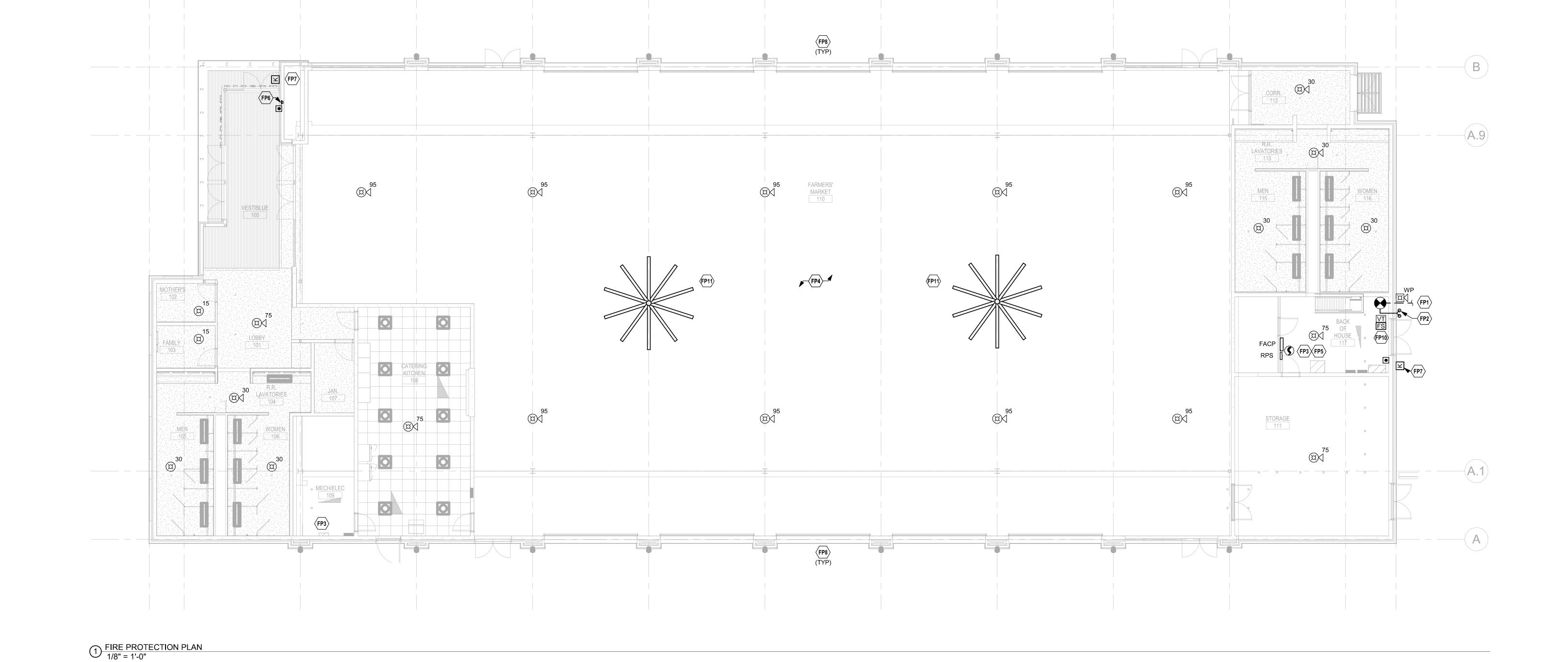
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FIRE PROTECTION PLAN

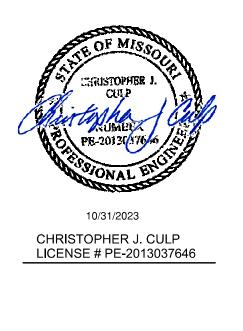
FP-101









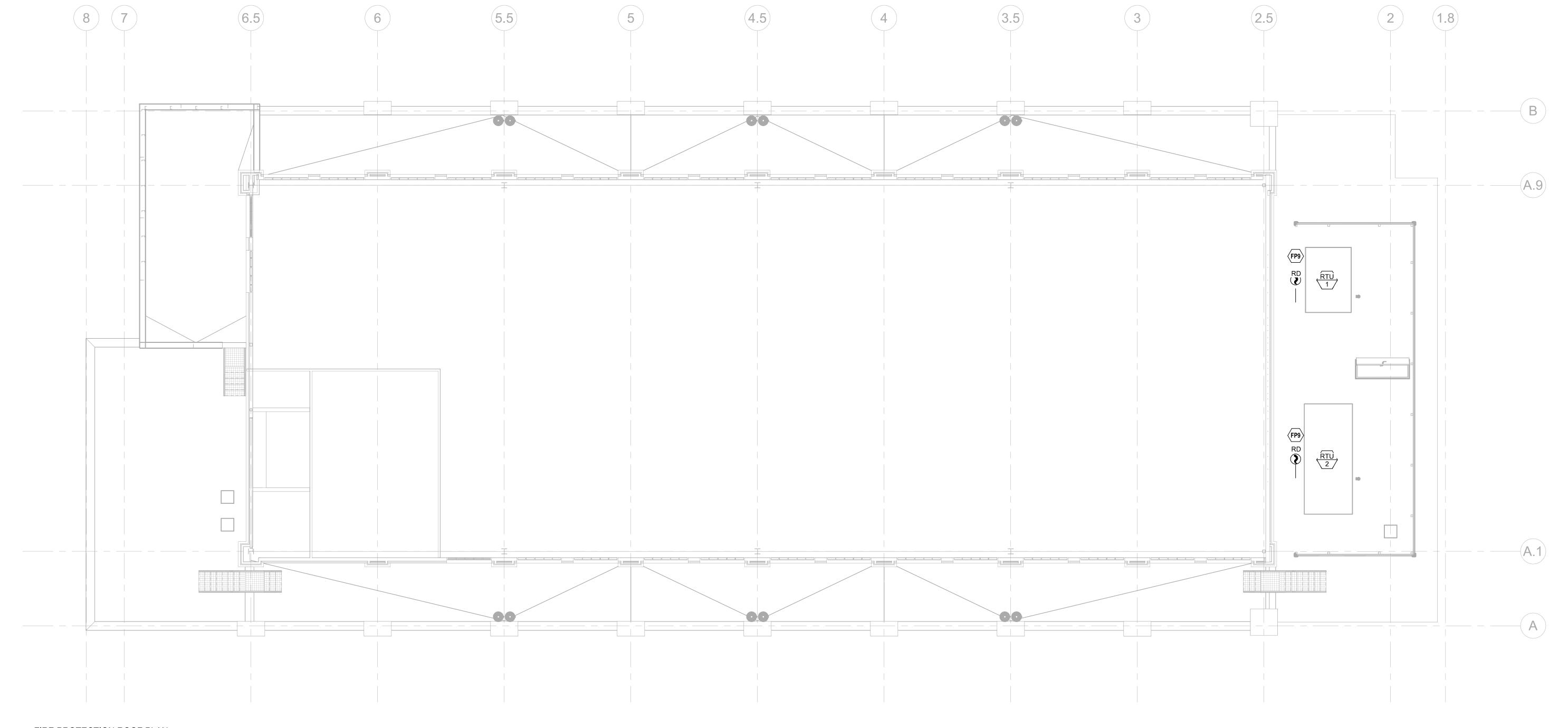




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FIRE PROTECTION ROOF PLAN



4.5

5.5

1) FIRE PROTECTION ROOF PLAN 1/8" = 1'-0"

2. PROVIDE SEISMIC RESTRAINTS AS NEEDED FOR THE MECHANICAL SYSTEMS IN THE PROJECT BASED ON THE SEISMIC ANALYSIS REQUIRED BY THE SPECIFICATIONS.

3. COORDINATE THE INSTALLATION OF THE MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF DUCTWORK AND PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.

4. ALL MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY DIVISION 23 UNLESS OTHERWISE NOTED.

5. NEW MECHANICAL EQUIPMENT, DUCTWORK AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL DUCTWORK AND PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE DUCTWORK AND PIPING WITHIN THE AVAILABLE SPACE. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.

6. REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE HVAC SYSTEM. VERIFY CHASES AND PENETRATIONS SHOWN ON ARCHITECTURAL DRAWINGS THAT ARE INTENDED FOR DUCTWORK AND PIPING MEET REQUIREMENTS.

7. COORDINATE LOCATION OF ROOF MOUNTED HVAC EQUIPMENT AND ROOF PENETRATIONS WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.

8. INDOOR AIR QUALITY MEASURES: PROTECT INSIDE OF (INSTALLED AND DELIVERED) DUCTWORK AND HVAC UNITS FROM EXPOSURE TO DUST, DIRT, PAINT AND MOISTURE, REPLACE INSULATION THAT HAS BECOME WET AT ANY TIME DURING CONSTRUCTION, DRYING THE INSULATION IS NOT ACCEPTABLE. SEAL ANY TEARS OR JOINTS OF INTERNAL FIBERGLASS INSULATION. REMOVE DEBRIS FROM CEILING/RETURN AIR PLENUM INCLUDING DUST, AN INDEPENDENT, PROFESSIONAL DUCT CLEANING COMPANY SHALL VACUUM CLEAN ANY DUCTWORK CONNECTED TO HVAC UNITS THAT WERE OPERATED DURING THE CONSTRUCTION PERIOD AFTER NEW FILTERS ARE INSTALLED AND PRIOR TO TURNING SYSTEM OVER TO THE OWNER. THE INTERNAL SURFACES AND ASSOCIATED COILS OF ANY HVAC UNITS THAT WERE OPERATED SHALL ALSO BE CLEANED.

9. INSTALL DUCTWORK AND PIPING PARALLEL TO BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR

10. OVERHEAD HANGERS AND SUPPORTS FOR EQUIPMENT, DUCTWORK AND PIPING SHALL BE FASTENED TO BUILDING JOISTS OR BEAMS, DO NOT ATTACH HANGERS AND SUPPORTS TO THE ABOVE FLOOR SLAB OR ROOF EXCEPT WHERE CONCRETE INSERTS IN CONCRETE SLABS ARE ALLOWED BY THE SPECIFICATIONS.

11. COORDINATE LOCATION OF EQUIPMENT SUPPORTS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT AND/OR FILTER REPLACEMENT.

12. SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.

13. COORDINATE THE EXACT MOUNTING SIZE AND FRAME TYPE OF DIFFUSERS, REGISTERS AND GRILLES WITH THE SUPPLIER TO MEET THE CEILING, WALL AND DUCT INSTALLATION REQUIREMENTS.

14. ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL CEILING GRID AND LIGHTING LOCATIONS.

15. PAINT PORTIONS OF DUCTWORK AND INSULATION THAT ARE EXPOSED TO VIEW BY THE INSTALLATION OF DIFFUSERS, REGISTERS, AND GRILLES IN CEILINGS OR WALLS FLAT BLACK. PORTIONS INCLUDE BOTH THE INTERIOR OF UNLINED DUCTWORK AND THE EXTERIOR OF DUCTWORK AND INSULATION.

16. LOCATE AND SET THERMOSTATS AND HUMIDISTATS AT LOCATIONS SHOWN ON PLANS. VERIFY EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. DEVICE MOUNTING HEIGHT SHALL MEET ADA REQUIREMENTS UNLESS OTHERWISE NOTED ON PLANS. PROVIDE INSULATED BACKING FOR THERMOSTATS MOUNTED ON EXTERIOR BUILDING WALLS. INSTALL WIRING IN CONDUIT PROVIDED BY DIVISION 26. AT A MINIMUM, PROVIDE CONDUIT IN THE WALL FROM THE JUNCTION BOX TO 6" ABOVE THE CEILING.

17. COORDINATE THE LOCATION AND ELEVATION OF WALL-MOUNTED DEVICES WITH PRESENTATION BOARDS. DISPLAY CABINETS, SHELVES OR OTHER COMPONENTS SHOWN ON THE ARCHITECTURAL DRAWINGS THAT ARE TO BE INSTALLED UNDER OTHER DIVISIONS. CONTRACTOR WILL NOT BE REIMBURSED FOR RELOCATION OF WALL-MOUNTED DEVICES CAUSED BY A LACK OF COORDINATION

18. PROVIDE A MANUAL BALANCING DAMPER IN EACH DUCT TAKEOFF FROM SUPPLY, RETURN, OUTDOOR AND

19. PROVIDE A PREFABRICATED 45 DEGREE, HIGH EFFICIENCY, RECTANGULAR/ROUND BRANCH DUCT TAKEOFF FITTING FOR BRANCH DUCT CONNECTIONS AND TAKE-OFFS TO INDIVIDUAL DIFFUSERS, REGISTERS AND GRILLES. PROVIDE WITH INTEGRAL MANUAL BALANCING DAMPER AND LOCKING QUADRANT WHERE

20. BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS OTHERWISE

21. REFER TO SPECIFICATIONS FOR DUCTWORK AND PIPING INSULATION REQUIREMENTS. DUCT SIZES ON MECHANICAL PLANS INDICATE CLEAR INSIDE AIRFLOW DIMENSIONS, INCREASE SHEET METAL SIZES ACCORDINGLY TO ACCOUNT FOR THICKNESS OF DUCT LINER.

22. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH AND SHALL BE INSTALLED AND SUPPORTED TO AVOID SHARP BENDS AND SAGGING. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

23. RIGIDLY SUSPEND UNIT HEATER FROM STRUCTURE WITH SUPPORTING ANGLES AND ALL-THREAD HANGING

RODS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. 24. PROVIDE EQUIPMENT VENTS AND FLUES PER EQUIPMENT MANUFACTURERS RECOMMENDATIONS AND EQUIPMENT SPECIFICATIONS. KEEP PENETRATIONS THROUGH ROOF A MINIMUM OF 10'-0" FROM HVAC

EQUIPMENT FRESH AIR INLETS AND 2'-0" FROM ROOF PARAPETS.

25. PROVIDE WALL MOUNTED LOUVERS AND DAMPERS WITH SUITABLE MOUNTING FRAME TO MATCH WALL CONSTRUCTION. COORDINATE WITH ARCHITECTURAL DRAWINGS.

TURNING SYSTEM(S) OVER TO OWNER. 27. FIELD VERIFY THAT THE EXISTING EQUIPMENT INCLUDING ACCESSORIES BEING REUSED FOR THIS PROJECT IS NOT DAMAGED AND IS IN GOOD WORKING ORDER. REPORT ANY DEFICIENCIES TO THE OWNER OR ARCHITECT. SUBMIT TO THE OWNER AND ARCHITECT A WRITTEN REPORT DESCRIBING TESTS PERFORMED

TO VERIFY OPERATION AND RESULTS OF THE TESTS.

26. PROVIDE A NEW SET OF AIR FILTERS IN UNITS PRIOR TO TESTING, ADJUSTING AND BALANCING AND BEFORE

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OF THE	DEVICE UNO. ALL DEVICES SH URRENT ADA AND LOCAL REQU	IALL BE INS	TALLED IN COMPLIANCE			INS
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AFF AFG AHJ	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION	LDB LP LWB	TEMPERATURE LEAVING DRY BULB LOW PRESSURE LEAVING WET BULB		SA	SUF
AHU AI AO	AIR HANDLING UNIT ANALOG INPUT ANALOG OUTPUT	LWT MAU	LEAVING WATER TEMPERATURE MAKE-UP AIR UNIT			EQI
NP NPD NWG	ACCESS PANEL AIR PRESSURE DROP AMERICAN WIRE GAUGE	MAX MBH MD	MAXIMUM 1000 BTU PER HOUR MOTORIZED DAMPER			10" CSE
BAS	BOILER BUILDING AUTOMATION SYSTEM	MFR MIN N/A	MANUFACTURER MINIMUM NOT APPLICABLE		<u>-</u> 🖂	300
3B 3D 3D	BACKBONE BACKDRAFT DAMPER BLOWDOWN	N/C N/O NOM	NORMALLY CLOSED NORMALLY OPEN NOMINAL			24x2 CE0 800
BFC BFF BFG	BELOW FINISHED CEILING BELOW FINISHED FLOOR BELOW FINISHED GRADE	NC NF NIC	NOISE CRITERIA NON-FUSED NOT IN CONTRACT			EQI
BFP BHP BI	BOILER FEED PUMP BRAKE HORSEPOWER BINARY INPUT	OA PICV	OUTSIDE AIR PRESSURE INDEP. CONTROL VALVE			ACC
30 30D 30S	BINARY OUTPUT BOTTOM OF DUCT BOTTOM OF STRUCTURE	PROVIDE QTY RA	E FURNISH AND INSTALL QUANTITY RETURN AIR			1AM
BTU CFM CH	BRITISH THERMAL UNIT CUBIC FEET PER MINUTE CHILLER	RC RD REA	ROOM CRITERIA RETURN DUCT RELIEF AIR			SQl
CLG CP CPT	COOLING CONDENSATE PUMP CONTROL POWER	RF RFR RH	RETURN FAN REFRIGERANT RELATIVE HUMIDITY		—RD	DU( (SD
CRAC	TRANSFORMER COMPUTER ROOM AIR CONDITIONING UNIT	RH RPM RTU	ROOF HOOD REVOLUTIONS PER MINU ROOFTOP UNIT	JTE	XX"Ø	ROI
CRU CT CV	COMPUTER ROOM UNIT COOLING TOWER CONTROL VALVE	SA SCP SD	SUPPLY AIR STEAM CONDENSATE PU SMOKE DUCT DETECTOR		XX" x XX"	REC DUC
CWP	CONDENSER WATER PUMP CONDENSING UNIT	SD SF SH	SUPPLY DUCT SUPPLY FAN SENSIBLE HEAT CAPACIT		XX" / XX" θ	FLA D <b>I</b> M
CHWP OB OBA	CHILLED WATER PUMP DECIBELS DECIBEL AVERAGE	SOW SP ST	SCOPE OF WORK STATIC PRESSURE STEAM TRAP		#	RIS
DDC DI DISC	DIRECT DIGITAL CONTROL DIGITAL INPUT DISCONNECT	STM TBD TC/C	STEAM TO BE DETERMINED TEMPERATURE CONTRO	DLS	(FD)	FIRI
ON OS OX	DOWN DUCT SILENCER DIRECT EXPANSION	TCP	CONTRACTOR TEMPERATURE CONTRO PANEL		(SD)	FIRI SM(
(E) EA EAT	EXISTING EXHAUST AIR ENTERING	TF TFA TFB	TRANSFER FAN TO FLOOR ABOVE TO FLOOR BELOW		(v)	VOL
ED EDB	AIR TEMPERATURE EXHAUST DUCT ENTERING DRY BULB	TH TSP TT	TOTAL HEAT CAPACITY TOTAL STATIC PRESSUR TEMPERATURE	RE	MD	MO <sup>·</sup>
EF EFF EMS	EXHAUST FAN EFFICIENCY ENERGY MANAGEMENT	TYP U/F	TRANSMITTAL TYPICAL UNDERFLOOR		BD	BAC
ESP	SYSTEM EXTERNAL STATIC PRESSURE	U/G U/S UH	UNDERGROUND UNDERSLAB UNIT HEATER		ALL DUCT DIMENSION REFER TO DUCTWOR	
TR WB WT	EXISTING TO REMAIN ENTERING WET BULB ENTERING WATER	UNO VAV VEL	UNLESS NOTED OTHERV VARIABLE AIR VOLUME VELOCITY	WISE _	LINER INFORMATION.	
.vv I	TEMPERATURE	VEL VFD	VELOCITY VARIABLE FREQUENCY	L	HVAC CONTROL	DEV

MECHANICAL SYMBOLS

HVAC DUCTWORK AND ACCESSORIES

RELOCATED

LINEAR SLOT DIFFUSER

TEMPERATURE SENSOR

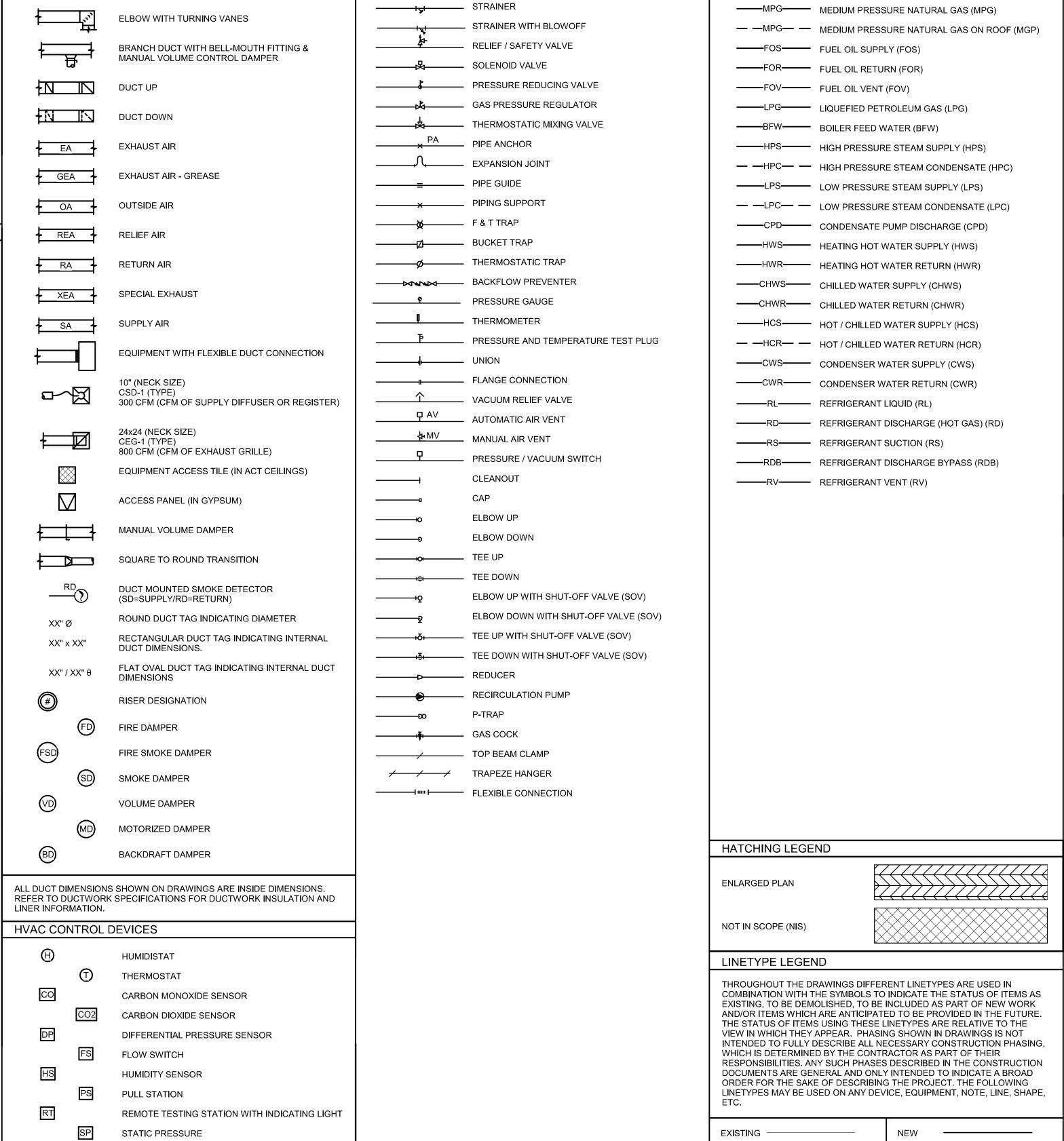
DUCTWORK/EQUIPMENT TO BE REMOVED OR

EXISTING DUCTWORK/EQUIPMENT TO REMAIN

INSULATED FLEXIBLE DUCT (MAX. 5'-0" LONG)

BRANCH DUCT WITH 45° RECTANGLE-ROUND

BRANCH FITTING AND MANUAL VOLUME DAMPER



PIPING SYMBOLS

\_\_\_\_\_ DIRECTION OF FLOW

THREE-WAY CONTROL VALVE

BALANCING VALVE WITH PRESSURE PORTS

TRIPLE DUTY VALVE WITH PRESSURE PORTS

CONTROL VALVE

——— SHUTOFF VALVE

———— CHECK VALVE

Sh	neet List -	Mechanical	
t Number		Sheet Name	

VRF VARIABLE REFRIGERANT

WITHOUT

WET BULB

WATER COLUMN

EXPLOSION PROOF

VARIABLE REFRIGERANT

WATER PRESSURE DROP

VRV

W/O

MECHANICAL GENERAL NOTES AND LEGEND HVAC PLAN HVAC ROOF PLAN MECHANICAL SCHEDULES MECHANICAL DETAILS MECHANICAL CONTROLS

FROM FLOOR ABOVE

FROM FLOOR BELOW

GENERAL CONTRACTOR

**GALLONS PER MINUTE** 

HAND-OFF-AUTOMATIC

FINISHED FLOOR

FEET PER MINUTE

FINS PER INCH

HORSEPOWER

HEATING

FPM

HOA

HTG

FAN COIL UNIT

Grand total: 6

NUMBER

PE-2022017017

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LICENSE # PE-2022017017

V3.0

PIPING LINETYPES

- - - EXISTING PIPING TO BE REMOVED OR RELOCATED

FUTURE

DEMOLISH — — — —

EXISTING PIPING TO REMAIN

ACD—— AUXILIARY CONDENSATE DRAIN (ACD)

——CD—— CONDENSATE DRAIN (CD)

NPW—NON-POTABLE WATER (NPW)

— —G— — NATURAL GAS ON ROOF (G)

——G—— NATURAL GAS (G)

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**MECHANICAL GENERAL NOTES** AND LEGEND

M3 ROUTE STAINLESS STEEL EQUIPMENT FLUE AND COMBUSTION AIR UP TO ROOF. SIZE PER MANUFACTURER RECOMMENDATIONS. TERMINATE PER MANUFACTURER

INSTALLATION INSTRUCTIONS. M4 ROUTE STAINLESS STEEL EQUIPMENT FLUE AND COMBUSTION THROUGH SIDE WALL. SIZE PER MANUFACTURER RECOMMENDATIONS. TERMINATE PER

MANUFACTURER INSTALLATION INSTRUCTIONS. M5 PROVIDE MINIMUM 18"X18" ACCESS PANEL FOR SERVICING OF EQUIPMENT.

M6 SUPPLY AIR DUCTWORK SHALL BE ROUTED THROUGH STRUCTURAL TRUSSES. COORDINATE DUCT ROUTING WITH STRUCTURAL ENGINEER PRIOR TO FABRICATING DUCTWORK. SUPPLY DUCTWORK SHALL HAVE 2" LINER FOR SOUND ATTENUATION.

M7 ROUTE DUCTWORK IN SOFFIT. MOUNT SUPPLY GRILLES ON SOFFIT SIDEWALL EQUAL DISTANCE APART. M8 UNDERCUT DOOR 1/2" FOR AIR TRANSFER.

M9 PROVIDE TRANSFER GRILLE MOUNTED AT LEAST 13' AFF. M10 PROVIDE 8"X8" RETURN AIR OPENING WITH BALANCING DAMPER IN VERTICAL RETURN AIR DUCT. BALANCE TO 200

M11 REFER TO ROOF PLAN FOR CONTINUATION OF DUCTWORK.

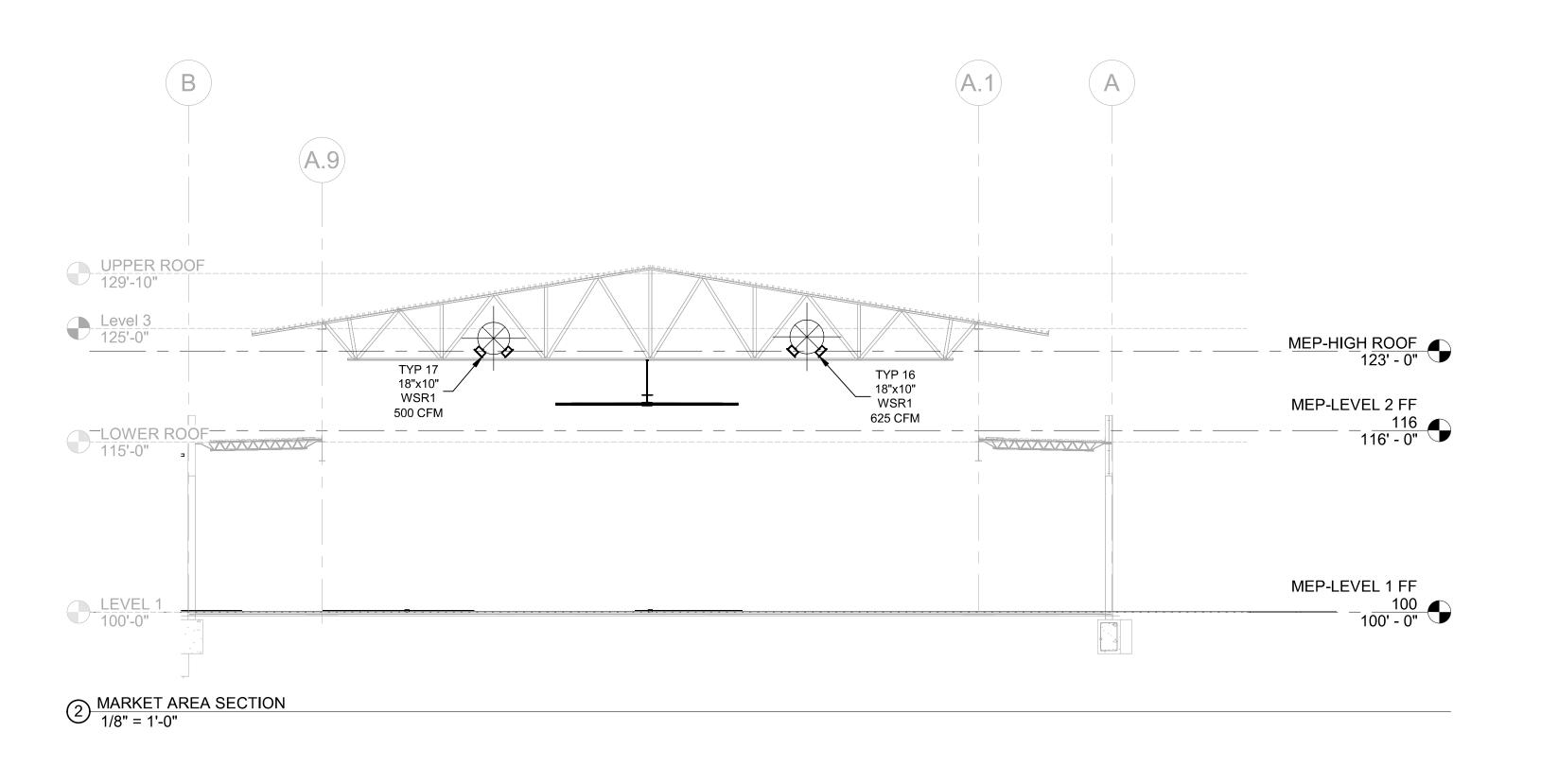
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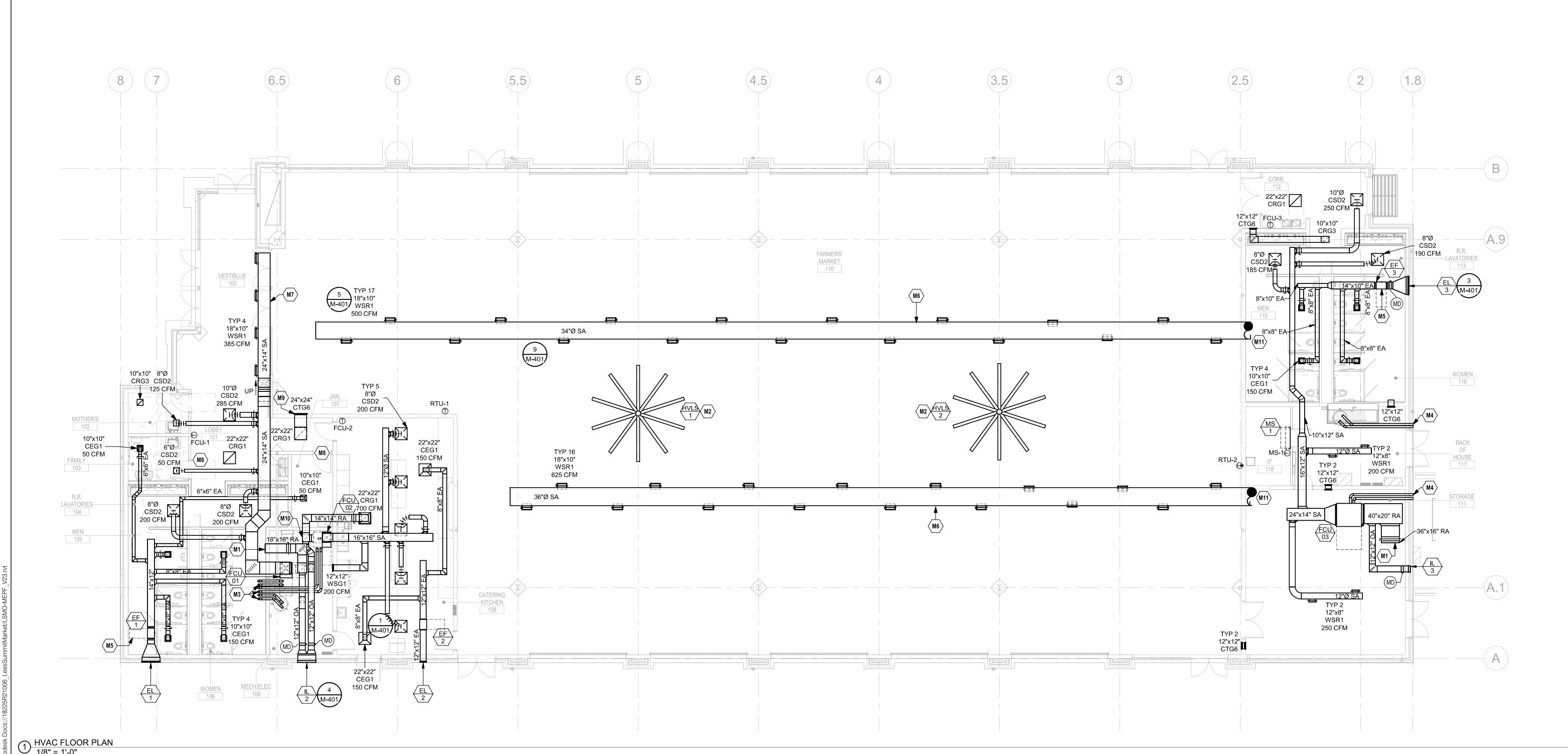
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HVAC PLAN

M-101





- M12 REFER TO HVAC PLAN FOR CONTINUATION OF DUCTWORK. M13 ROUTE REFRIGERANT PIPING TO ASSOCIATED FAN COIL UNIT. SIZE AND ROUTE PER MANUFACTURER INSTRUCTIONS.
- M14 FINAL GRILLE LOCATIONS SHALL BE FIELD COORDINATED
  WITH STRUCTURAL AND ARCHITECT PRIOR TO STARTING
- M15 CONNECT RETURN AIR DUCT INTO RTU PLENUM CURB. M16 PROVIDE DUCT SILENCER ELBOW EQUIVALENT TO KINETICS
- M17 PROVIDE RETURN AIR DUCTWORK WITH 2" LINER FOR SOUND ATTENUATION. DUCTWORK SHALL STILL BE INSULATED AND JACKETED PER SPECIFICATIONS AS EXTERIOR DUCTWORK.









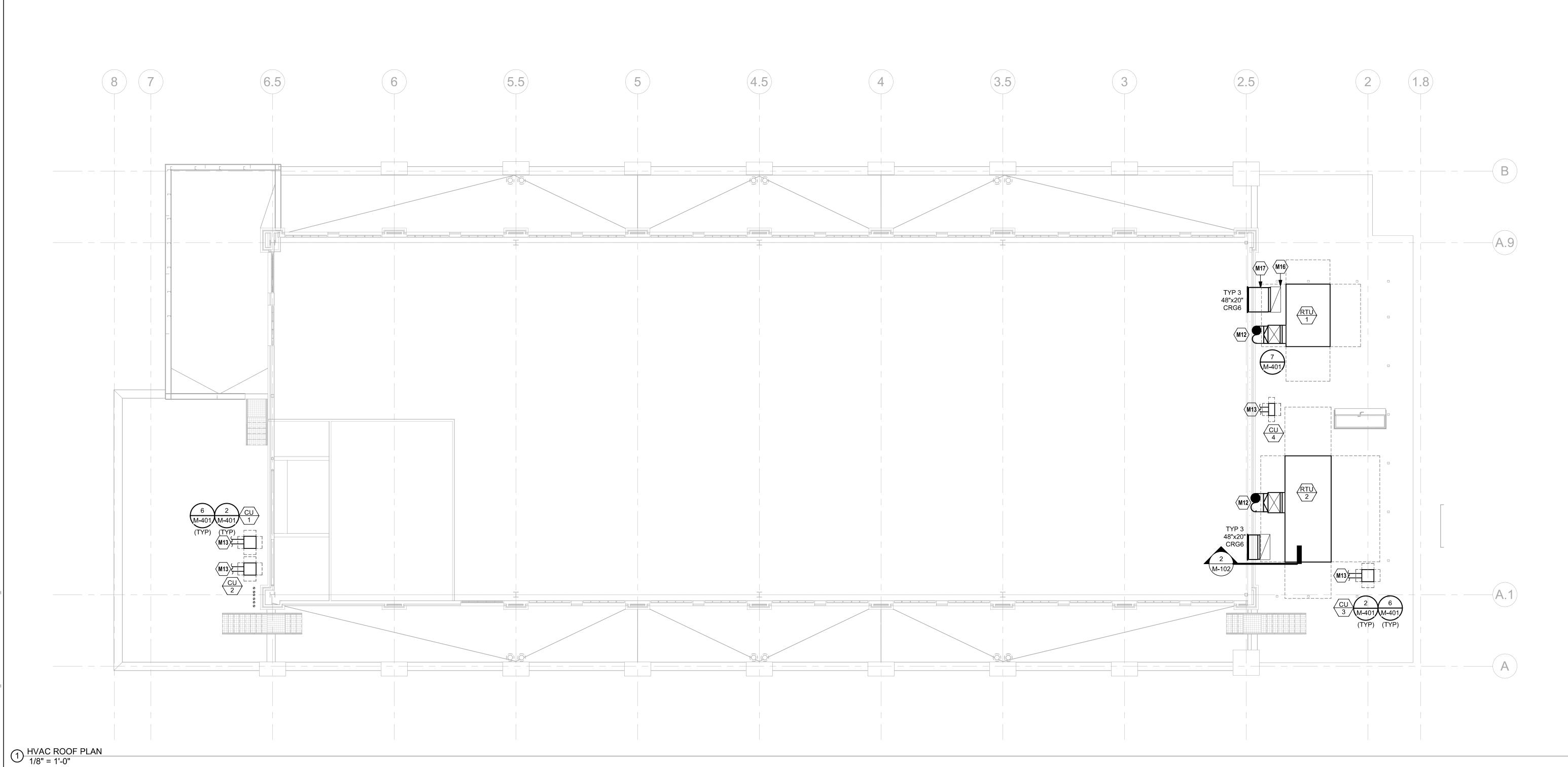


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M-102



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**MECHANICAL** 

**SCHEDULES** 

ROOFTOP UNIT SCHEDULE (DX COOLING, NATURAL GAS HEAT NOM | MIN | EAT | LAT | MAX | MIN | MIN ESP TSP REFR MIN NO | MAX VEL | MIN OUT FAN (IN) (IN) BHP HP (Y/N) TH (MBH) SH (MBH) (°F DB) WB) (°F DB) (°F WB) TYPE (EER) (IEER) STAGES (FPM) (MBH) MARK MANUFACTURER TYPE CFM MCA MOCP TYPE (LBS) NOTES MODEL 324.0 400.0 81 55 90.0 MOD 600 1700 0 208 V / 3PH 119 150 NF 2600 TRANE YSJ300A3S0H SINGLE BC 8500 0.75 1.27 4.17 0.00 Yes 286.9 210.7 78.4 65.5 55.9 54.4 R-410A 9.8 13.5 3 550 A-U YCD330CEP\*2D1CECA0C SINGLE FC 10000 0.75 1.85 6.64 7.50 Yes 331.2 255.3 77.9 65.1 54.7 54.2 R-410A 10.9 14.9 3 550 486.0 600.0 81 57 90.0 MOD 600 1700 0 208 V / 3PH 153 175 NF 5400 TRANE

MODEL NUMBERS AND NOMINAL TONS LISTED SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

REFER TO ROOFTOP UNIT CONTROL MATRIX FOR ADDITIONAL UNIT FEATURES, COMPONENTS, MODULES, ACCESSORIES, AND CONTROLS THAT SHALL BE PROVIDED WITH THE EQUIPMENT EQUIPMENT SIZED FOR 105 °F AMBIENT TEMPERATURE.

PROVIDE 4" MERV 14, EFFICIENT PLEATED THROWAWAY AIR FILTERS. PROVIDE FACTORY MOUNTED DISCONNECT INSTALLED ON SERVICE SIDE OF UNIT.

STARTERS FOR ALL MOTORS SHALL BE FURNISHED INTEGRAL WITH UNIT. PROVIDE FACTORY MOUNTED VARIABLE FREQUENCY DRIVE TO FACILITATE MODULATING FAN SPEED CONTROL. PROVIDE SHAFT GROUNDING SYSTEM ON MOTOR. REFER TO MOTOR SPECIFICATION FOR ADDITIONAL INFORMATION.

PROVIDE SINGLE POINT POWER CONNECTION. COORDINATE SIZE OF CONDUCTOR TERMINATION LUGS WITH CONDUCTOR SIZES SHOWN ON ELECTRICAL DRAWINGS.

PROVIDE 125 VAC, 20 AMP DUPLEX CONVENIENCE RECEPTACLE MOUNTED TO UNIT READY FOR FIELD WIRING WITH A COVER UL LISTED FOR WET AND DAMPER LOCATIONS WHEN IN USE. SPECIFIED FAN ESP ACCOUNTS FOR DUCT LOSSES EXTERNAL TO UNIT.

SPECIFIED FAN TSP INCLUDES EXTERNAL DUCT AND INTERNAL FILTER, COIL, AND CASING LOSSES. FILTER LOSS IS AT A MAXIMUM OF 400 FPM FACE VELOCITY. PROVIDE MOTOR HORSEPOWER TO OVERCOME INTERNAL UNIT STATIC PRESSURE DROP PLUS SPECIFIED EXTERNAL STATIC PRESSURE DROP. NOMINAL MOTOR HP SHALL BE NO LARGER THAN THE FIRST AVAILABLE NOMINAL MOTOR SIZE GREATER THAN THE REQUIRED BHP.

PROVIDE INSULATED PLENUM ROOF CURB WITH MINIMUM HEIGHT REQUIRED TO MAINTAIN BOTTOM OF EQUIPMENT A MINIMUM OF 36 INCHES ABOVE FINISHED ROOF SLOPE. COORDINATE WITH ROOF INSULATION THICKNESS AND ROOF TAPER AT INSTALLED LOCATION. COORDINATE

PROVIDE CURB DESIGNED TO WITHSTAND HURRICANE WIND FORCES. SCHEDULED WEIGHT IS THE MAXIMUM ALLOWABLE OPERATING WEIGHT OF THE EQUIPMENT.

COOLING COIL LAT IS LEAVING AIR TEMPERATURE OF COIL PROVIDE GUARDS TO PROTECT CONDENSER COIL FROM HAIL OR OTHER DAMAGE.

PROVIDE HEATER TO MEET OR EXCEED SCHEDULED MINIMUM MBH OUTPUT. NOMINAL KW IS BASED ON LISTED MANUFACTURER'S STANDARD PRODUCT, COORDINATE EQUIPMENT POWER SUPPLY WITH ELECTRICAL CONTRACTOR IF DIFFERENT FROM THAT SCHEDULED.

	COMPUTER ROOM UNIT SCHEDULE  EVAPORATOR SECTION CONDENSING SECTION															
							EVAPOR	ATOR SECTIO								
				AMB												
MARK	MANUFACTURER	MODEL	REFR TYPE	CFM	TC (MBH)	(°F DB)	(°F WB)	V/PH	MCA	MOCP	FLA	(°F)	V/PH	MCA	MOCP	NOTES
MS 1	MITSUBISHI	MSZ-GL18NA	R-410A	420	18.0	55.0	55.0	208 V / 1PH	1	15	1	105	208 V / 1PH	14	20	A-E

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:

CONTRACTOR SHALL VERIFY WITH EQUIPMENT SUPPLIER EXACT ROUTING AND SIZE OF INSULATED REFRIGERANT PIPING. INSTALL

PER MANUFACTURERS RECOMMENDATIONS. DIVISION 26 CONTRACTOR TO PROVIDE DISCONNECT SWITCH FOR EVAPORATOR SECTION AND CONDENSING SECTION.

PROVIDE WITH WALL MOUNTED THERMOSTAT BY UNIT MANUFACTURER.

١.	PROVIDE WITH INTEGRAL CONDENSATE PUMP.
	PROVIDE CONDENSER COIL HAIL GUARDS.

			OUTSIDE A	AIR REQUIREM	IENTS, II	MC-2018 (I	P)					
		SINGLE-ZONE S	SYSTEMS ONLY	MULTI-ZONE SYSTEMS ONLY	FLOOR AREA	SYSTEM AVERAGED	SYSTEM	SYSTEM AVERAGED	REQUIRED	REQUIRED		
SYSTEM	SYSTEM TAB NAME	SINGLE-ZONE SYSTEM	SINGLE ZONE WORST CASE	SYSTEM VENTILATION	SERVED	AREA-BASED	POPULATION	PEOPLE-BASED	OA INTAKE	DCV OA INTAKE	DESIGN OA	NOTES
DESIGNATION	OR LIST 'SINGLE'	ASSOCIATED	ZONE AIR DISTRIBUTION	EFFICIENCY [Ev]	BY SYSTEM [As]	OUTDOOR AIR RATE	[Ps]	OUTDOOR AIR RATE	FLOW [Vot]	FLOW [Vot]	INTAKE FLOW [Vot]	
		VENTILATION ZONE	EFFECTIVENESS [Ez]		(SF)	(CFM/SF)	(PEOPLE)	(CFM/P)	(CFM)	(CFM)	(CFM)	
RTU-1	SINGLE ZONE	108 NW FARMERS' MARKET	0.80	-	6,608	0.120	99.12	7.50	1,921	N/A	2,000	A-B
RTU-2	SINGLE ZONE	108 SE FARMERS' MARKET	0.80	-	5,184	0.120	77.76	7.50	1,507	N/A	1,600	A-B
FCU-1	MULTIZONE FCU-1	-	-	0.55	1,438	0.031	7.85	5.00	153	N/A	155	A-B
FCU-2	MULTIZONE FCU-2	-	-	0.75	1,059	0.087	15.38	7.50	277	N/A	280	A-B
FCU-3	MULTIZONE FCU-3	-	-	0.66	1,930	0.016	1.74	5.00	60	N/A	65	A-B
								TOTALS	3,917	0	4,100	

GENERAL NOTES:

VENTILATION CALCULATIONS BASED ON IMC-2018.

SYSTEM POPULATIONS BASED ON MAX SEATING AND/OR CODE MAXIMUM VALUES. SINGLE ZONE SYSTEMS (Vot = Voz): SYSTEM VENTILATION EFFICIENCY CALCULATION IS NOT REQUIRED FOR SINGLE ZONE SYSTEMS. WORST CASE AIR DISTRIBUTION EFFECTIVENESS BETWEEN HEATING AND COOLING MODES OF OPERATION IS SHOWN IN TABLE.

MULTI-ZONE RECIRCULATING SYSTEMS: CALCULATOR USED TO DETERMINE VENTILATION AIRFLOW IN COMPLIANCE WITH IMC-2018 VRP AND ASHRAE 62.1-2016 APPENDIX A. VENTILATION FACTORS INCLUDED. EACH ZONE IS CALCULATED WITH ITS WORST CASE ZONE AIR DISTRIBUTION EFFECTIVENESS (HEATING/COOLING) AS PART OF CALCULATIONS TO FIND Ev.

VENTILATION AIR PROVIDED VIA TRANSFER FROM SPACES/RETURN PLENUM SERVED BY AHU-X. SYSTEM INCLUDED IN MULTIPLE ZONE CALCULATIONS.

AIRFLOW IS FOR EXHAUST MAKEUP AS REQUIRED BY THE VENTILATION STANDARD.

		FUR	NAC	CE/C	CO	OLI	NG	CO	IL S	SCH	HEC	DULE	(NA	TUR	AL	GAS	HE	AT	)		
			SUPPLY FAN COOLING COIL									GAS FIRE	D HEAT EXC	HANGER				ELECTRI	CAL		
								EA	Т	L/	<b>AT</b>										1
				ESP	MIN	TH	SH		(°F			MIN OUT	NOM INPUT		_					STARTER	1
MARK	MANUFACTURER	MODEL	CFM	(IN)	HP	(MBH)	(MBH)	(°F DB)	WB)	(°F DB)	(°F WB)	(MBH)	(MBH)	(%)	(CFM)	V/PH	MCA	MOCP	DISC TYPE	TYPE	NOTES
FCU 01	TRANE	TWE07243BAA	2400	0.4	1.00	73.1	58.6	81.7	67.3	59.5	58.1	110.2	140.0	80	760	208 V / 3PH	8	20	NF	NF	A-M,P,Q
FCU 02	TRANE	4PXC+S8X1B	1200	0.4	0.75	37.1	28.6	79.9	66.9	58.3	57.6	53.2	80.0	80	350	120 V / 1PH	13	20	NF	NF	A-M,P,Q
FCU 03	TRANE	4PXC+S8X1B	800	0.4	0.00	22.5	19.4	77.1	63.9	55.1	54.9	26.6	40.0	80	100	120 V / 1PH	7	20	NF	NF	A-L,N-Q

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION,

NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

ASSOCIATED CONDENSING UNIT SHALL BE BY THE SAME MANUFACTURER.

PROVIDE 4" MERV 13, PLEATED THROWAWAY AIR FILTERS. PROVIDE WITH SIDE RETURN AIR CONNECTION.

EQUIPMENT SIZED FOR 105 °F AMBIENT TEMPERATURE.

PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT WITH STAGED HEATING AND COOLING CAPABILITY AS REQUIRED FOR OPERATION

OF AUXILIARY HEATING AND COOLING CONTROLS. PROVIDE ACRYLIC, VANDAL-PROOF, LOCKING THERMOSTAT COVER. DISCONNECT SWITCH PROVIDED BY DIVISION 26 CONTRACTOR.

PROVIDE UNIT WITH INTEGRAL STARTER. PROVIDE SINGLE POINT POWER CONNECTION. SPECIFIED FAN ESP ACCOUNTS FOR DUCT LOSSES EXTERNAL TO UNIT. FILTER LOSS IS AT A MAXIMUM OF 400 FPM FACE VELOCITY.

NOMINAL MOTOR HP SHALL BE NO LARGER THAN THE FIRST AVAILABLE NOMINAL MOTOR SIZE GREATER THAN THE BHP. DIVISION 28 CONTRACTOR SHALL PROVIDE SMOKE DETECTORS IN DUCTS. PROVIDE CONCRETE HOUSEKEEPING PAD.

PROVIDE MOTOR HORSEPOWER TO OVERCOME INTERNAL UNIT STATIC PRESSURE DROP PLUS SPECIFIED EXTERNAL STATIC PRESSURE DROP.

PROVIDE WITH SPRING VIBRATION ISOLATION AND ALL-THREAD HANGING RODS. PROVIDE HEATER TO MEET OR EXCEED SCHEDULED MINIMUM MBH OUTPUT. NOMINAL KW IS BASED ON LISTED MANUFACTURER'S STANDARD PRODUCT.

COORDINATE EQUIPMENT POWER SUPPLY WITH ELECTRICAL CONTRACTOR IF DIFFERENT FROM THAT SCHEDULED. PROVIDE FLEXIBLE DUCT CONNECTORS AT ALL CONNECTIONS.

			CON	DEN	SING	3 UN	IT S	CHEC	)Ul	_E			
				REFR		MIN	EFF				DISC	WEIGHT	
MARK	SERVICE	MANUFACTURER	MODEL	TYPE	TH (MBH)	(EER)	(SEER)	V/PH	MCA	MOCP	TYPE	(LBS)	NOTES
CU 1	FCU-01	TRANE	TTA07243DAA	R-410A	73.6	11.5	14.8	208 V / 3PH	23	30	NF	325	A-J
CU 2	FUC-02	TRANE	4TTA3042D3	R-410A	42.0	11.7	14	208 V / 3PH	18	30	NF	200	A-J
CU 3	FCU-03	TRANE	4TTR4024N1	R-410A	24.0	11.7	14.3	208 V / 1PH	14	25	NF	150	A-J

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

PROVIDE LOW AMBIENT CONTROL TO 0° F. EQUIPMENT SIZED FOR 105°F AMBIENT TEMPERATURE.

COORDINATE WITH THE MANUFACTURER THE HORIZONTAL AND VERTICAL REFRIGERANT PIPE ROUTING TO DETERMINE PIPE SIZES FOR THE REFRIGERANT PIPING. MANUFACTURER SHALL PROVIDE DETAILED REFRIGERANT PIPING DIAGRAMS INCLUDING DIMENSIONAL DATA FOR ALL REFRIGERANT PIPING DEVICES. THE MANUFACTURER SHALL SIZE AND LOCATE THE ASSOCIATED REFRIGERANT TRAPS BASED ON THE ACTUAL ROUTING AND PROVIDE OTHER APPURTENANCES TO PROVIDE A FULLY FUNCTIONAL AND OPERATIONAL SYSTEM. COORDINATE WITH THE MANUFACTURER LOCATIONS FOR ALL REFRIGERANT PIPING DEVICES TO MAINTAIN SERVICEABILITY AND ACCESSIBILITY.

PROVIDE LIQUID LINE FILTER DRYER AND SIGHT GLASS. PROVIDE PRE-ENGINEERED ROOF EQUIPMENT SUPPORTS WITH MINIMUM HEIGHT REQUIRED TO MAINTAIN BOTTOM OF EQUIPMENT A MINIMUM OF 16 INCHES ABOVE FINISHED ROOF SURFACE. COORDINATE WITH ROOF INSULATION

THICKNESS AND ROOF TAPER AT INSTALLED LOCATION. PROVIDE FACTORY MOUNTED DISCONNECT INSTALLED ON SERVICE SIDE OF UNIT.

STARTERS FOR ALL MOTORS SHALL BE PROVIDED INTEGRAL WITH UNIT. COORDINATE SIZE OF CONDUCTOR TERMINATION LUGS WITH CONDUCTOR SIZES SHOWN ON ELECTRICAL DRAWINGS.

PROVIDE CONDENSER COIL HAIL GUARDS.

			GRILL	E, REGIS	TER A	ND DIFFUS	SER SO	CHEDUL	E		
MARK	MANUFACTURER	SERVICE	MODEL	CONSTRUCTION TYPE	FACE TYPE	MOUNTING LOCATION	BORDER TYPE	FACE SIZE (IN)	MAX NC	MAX PRESS DROP (IN W.C.)	NOTES
CEG1	TITUS	EXHAUST	PAR	STEEL	PERFORATED	SURFACE	3	REFER TO PLANS	30	0.10	C,G,I-L
CRG1	TITUS	RETURN	PAR	STEEL	PERFORATED	SURFACE	3	24"x24"	30	0.10	C,G,I-L
CRG3	TITUS	RETURN	PAR	STEEL	PERFORATED	SURFACE	3	12"x12"	30	0.10	C,G,I-L
CRG6	TITUS	RETURN	3FL	STEEL	LOUVERED	WALL	-	REFER TO PLANS	30	0.10	C,E,I-L
CSD2	TITUS	SUPPLY	OMNI	STEEL	PLAQUE	SURFACE	3	REFER TO PLANS	30	0.10	A-C, I-L
CTG6	TITUS	TRANSFER	3FL	STEEL	LOUVERED	WALL	-	REFER TO PLANS	30	0.10	C,E,I-L
WSG1	TITUS	SUPPLY	300FL	ALUMINUM	LOUVERED	WALL	-	REFER TO PLANS	30	0.10	A-D, F-K
WSR1	TITUS	SUPPLY	S-DL	ALUMINUM	LOUVERED	DUCT	-	REFER TO PLANS	30	0.10	A-D, F-K

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4-WAY THROW PATTERN UNLESS OTHERWISE INDICATED BY FLOW ARROWS ON DRAWINGS. NECK SIZE SHOWN ON DRAWINGS. PROVIDE BRANCH DUCT TO MATCH NECK SIZE UNLESS OTHERWISE SHOWN ON DRAWINGS.

BAKED ENAMEL FINISH, WHITE TO MATCH CEILING COLOR. FRONT BLADES PARALLEL TO SHORT DIMENSION.

FRONT BLADES PARALLEL TO LONG DIMENSION. DOUBLE DEFLECTION BARS SHALL BE ADJUSTABLE.

FRAME TYPE TO MATCH CEILING/WALL CONSTRUCTION, COORDINATE WITH ARCHITECTURAL REFLECTED CEILING/WALL PLAN. PROVIDE OPPOSED BLADE DAMPER ADJUSTABLE FROM FACE OF DEVICE.

PROVIDE BORDER TYPE TO MATCH CEILING CONSTRUCTION WITH CONCEALED MOUNTING, AND INSULATED PLENUM BOX WITH NECK. PROVIDE DIFFUSERS, LINEAR SLOTS, AND GRILLES WITH NO EXPOSED MOUNTING SCREWS.

PAINT ALL INTERIOR SURFACES SLOTS, GRILLES AND PLENUMS FLAT BLACK. PROVIDE WITH RAPID MOUNT FRAMING OPTION FOR LAY-IN TYPE DIFFUSERS INSTALLED IN A HARD CEILING.

FAN SCHEDULE														
SERVICE					ESP		NOM	FAN	DRIVE	VFD	ELECT	RICAL		
DESCRIPTION	MANUFACTURER	MOUNTING	MODEL	CFM	(IN)	BHP	HP	RPM	(BELT/DIRECT)	(Y/N)	V/PH	DISC TYPE	WEIGHT (LBS)	NOTES
EXHAUST	GREENHECK	SUSPENDED	SQ-99-VG	725	0.5	0.22	0.25	1725	DIRECT	No	120 V / 1PH	NF	60	A-G
EXHAUST	GREENHECK	SUSPENDED	SQ-80-VG	300	0.5	0.07	0.10	1725	DIRECT	No	120 V / 1PH	NF	50	A-G
EXHAUST	GREENHECK	SUSPENDED	SQ-99-VG	600	0.5	0.16	0.25	1725	DIRECT	No	120 V / 1PH	NF	60	A-G
CIRCULATION	BIG ASS FANS	STRUCTURE	PF8-18				2.00	86	DIRECT	No	208 V / 1PH	NF	240	H-K
CIRCULATION	BIG ASS FANS	STRUCTURE	PF8-18				2.00	86	DIRECT	No	208 V / 1PH	NF	240	H-K
	DESCRIPTION EXHAUST EXHAUST EXHAUST CIRCULATION	DESCRIPTION MANUFACTURER EXHAUST GREENHECK EXHAUST GREENHECK EXHAUST GREENHECK CIRCULATION BIG ASS FANS	DESCRIPTION MANUFACTURER MOUNTING EXHAUST GREENHECK SUSPENDED EXHAUST GREENHECK SUSPENDED EXHAUST GREENHECK SUSPENDED CIRCULATION BIG ASS FANS STRUCTURE	DESCRIPTION MANUFACTURER MOUNTING MODEL EXHAUST GREENHECK SUSPENDED SQ-99-VG EXHAUST GREENHECK SUSPENDED SQ-80-VG EXHAUST GREENHECK SUSPENDED SQ-99-VG CIRCULATION BIG ASS FANS STRUCTURE PF8-18	SERVICE DESCRIPTION MANUFACTURER MOUNTING MODEL CFM EXHAUST GREENHECK SUSPENDED SQ-99-VG 725 EXHAUST GREENHECK SUSPENDED SQ-80-VG 300 EXHAUST GREENHECK SUSPENDED SQ-99-VG 600 CIRCULATION BIG ASS FANS STRUCTURE PF8-18	SERVICE DESCRIPTION MANUFACTURER MOUNTING MODEL CFM (IN) EXHAUST GREENHECK SUSPENDED SQ-99-VG 725 0.5 EXHAUST GREENHECK SUSPENDED SQ-80-VG 300 0.5 EXHAUST GREENHECK SUSPENDED SQ-99-VG 600 0.5 CIRCULATION BIG ASS FANS STRUCTURE PF8-18	SERVICE DESCRIPTION MANUFACTURER MOUNTING MODEL CFM (IN) BHP EXHAUST GREENHECK SUSPENDED SQ-99-VG 725 0.5 0.22 EXHAUST GREENHECK SUSPENDED SQ-80-VG 300 0.5 0.07 EXHAUST GREENHECK SUSPENDED SQ-99-VG 600 0.5 0.16 CIRCULATION BIG ASS FANS STRUCTURE PF8-18	SERVICE DESCRIPTION MANUFACTURER MOUNTING MODEL CFM (IN) BHP HP HP EXHAUST GREENHECK SUSPENDED SQ-99-VG 725 0.5 0.22 0.25 EXHAUST GREENHECK SUSPENDED SQ-80-VG 300 0.5 0.07 0.10 EXHAUST GREENHECK SUSPENDED SQ-99-VG 600 0.5 0.16 0.25 CIRCULATION BIG ASS FANS STRUCTURE PF8-18	SERVICE DESCRIPTION         MANUFACTURER         MOUNTING         MODEL         CFM         (IN)         BHP         NOM HP         RPM           EXHAUST         GREENHECK         SUSPENDED         SQ-99-VG         725         0.5         0.22         0.25         1725           EXHAUST         GREENHECK         SUSPENDED         SQ-80-VG         300         0.5         0.07         0.10         1725           EXHAUST         GREENHECK         SUSPENDED         SQ-99-VG         600         0.5         0.16         0.25         1725           CIRCULATION         BIG ASS FANS         STRUCTURE         PF8-18         2.00         86	SERVICE DESCRIPTION MANUFACTURER MOUNTING MODEL CFM (IN) BHP HP RPM (BELT/DIRECT) EXHAUST GREENHECK SUSPENDED SQ-99-VG 725 0.5 0.22 0.25 1725 DIRECT EXHAUST GREENHECK SUSPENDED SQ-80-VG 300 0.5 0.07 0.10 1725 DIRECT EXHAUST GREENHECK SUSPENDED SQ-99-VG 600 0.5 0.16 0.25 1725 DIRECT CIRCULATION BIG ASS FANS STRUCTURE PF8-18 2.00 86 DIRECT	SERVICE DESCRIPTION MANUFACTURER MOUNTING MODEL CFM (IN) BHP HP RPM (BELT/DIRECT) (Y/N) EXHAUST GREENHECK SUSPENDED SQ-99-VG 725 0.5 0.22 0.25 1725 DIRECT No EXHAUST GREENHECK SUSPENDED SQ-80-VG 300 0.5 0.07 0.10 1725 DIRECT No EXHAUST GREENHECK SUSPENDED SQ-99-VG 600 0.5 0.16 0.25 1725 DIRECT No CIRCULATION BIG ASS FANS STRUCTURE PF8-18 2.00 86 DIRECT No	SERVICE DESCRIPTION         MANUFACTURER         MOUNTING         MODEL         CFM         (IN)         BHP         NOM HP         FAN RPM         DRIVE (BELT/DIRECT)         VFD (Y/N)         ELECT           EXHAUST         GREENHECK         SUSPENDED         SQ-99-VG         725         0.5         0.22         0.25         1725         DIRECT         No         120 V / 1PH           EXHAUST         GREENHECK         SUSPENDED         SQ-99-VG         600         0.5         0.16         0.25         1725         DIRECT         No         120 V / 1PH           CIRCULATION         BIG ASS FANS         STRUCTURE         PF8-18         2.00         86         DIRECT         No         208 V / 1PH	SERVICE DESCRIPTION         MANUFACTURER         MOUNTING         MODEL         CFM         (IN)         BHP         HP         RPM         DRIVE (BELT/DIRECT)         VFD (Y/N)         ELECTRICAL           EXHAUST         GREENHECK         SUSPENDED         SQ-99-VG         725         0.5         0.22         0.25         1725         DIRECT         No         120 V / 1PH         NF           EXHAUST         GREENHECK         SUSPENDED         SQ-99-VG         600         0.5         0.16         0.25         1725         DIRECT         No         120 V / 1PH         NF           EXHAUST         GREENHECK         SUSPENDED         SQ-99-VG         600         0.5         0.16         0.25         1725         DIRECT         No         120 V / 1PH         NF           CIRCULATION         BIG ASS FANS         STRUCTURE         PF8-18         2.00         86         DIRECT         No         208 V / 1PH         NF	SERVICE DESCRIPTION         MANUFACTURER         MOUNTING         MODEL         CFM         (IN)         BHP         NOM HP         FAN RPM         DRIVE (BELT/DIRECT)         VFD (Y/N)         EECTRICAL (Y/N)         WEIGHT (LBS)           EXHAUST         GREENHECK         SUSPENDED         SQ-99-VG         725         0.5         0.22         0.25         1725         DIRECT         No         120 V / 1PH         NF         60           EXHAUST         GREENHECK         SUSPENDED         SQ-99-VG         600         0.5         0.16         0.25         1725         DIRECT         No         120 V / 1PH         NF         50           EXHAUST         GREENHECK         SUSPENDED         SQ-99-VG         600         0.5         0.16         0.25         1725         DIRECT         No         120 V / 1PH         NF         60           CIRCULATION         BIG ASS FANS         STRUCTURE         PF8-18         2.00         86         DIRECT         No         208 V / 1PH         NF         240

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN. NOTES:

PROVIDE BIRDSCREEN AND MOTORIZED DAMPER. PROVIDE WITH SPRING VIBRATION ISOLATION AND ALL-THREAD HANGING RODS.

PROVIDE FACTORY MOUNTED DISCONNECT SWITCH. PROVIDE SHAFT GROUNDING SYSTEM ON MOTOR. REFER TO MOTOR SPECIFICATION FOR ADDITIONAL INFORMATION.

PROVIDE WITH MANUFACTURER'S FAN SPEED CONTROLLER FOR BALANCING PURPOSES.

PROVIDE WITH MANUFACTURER'S ELECTRONICALLY COMMUTATED (EC) MOTOR. NOMINAL MOTOR HP SHALL BE NO LARGER THAN THE FIRST AVAILABLE NOMINAL MOTOR SIZE GREATER THAN THE BHP. MAINTAIN MINIMUM 3 FEET VERTICAL CLEARANCE BETWEEN FIRE SPRINKLER DEFLECTOR AND FAN BLADES.

PROVIDE WITH AUXILIARY CONTACTS FOR SHUTDOWN UPON NOTIFICATION OF FIRE ALARM SYSTEM. COORDINATE MOUNTING HEIGHT WITH OTHER TRADES PRIOR TO INSTALLATION. HVLS FAN SHALL CONNECT TO BMS.

SHALL CONNE	CT TO BINIS.									
			L	OUVE	ER SCH	IEDUL	.E			
								MAX VEL	MAX APD (IN	
MARK	AREA SERVED	SERVICE	MANUFACTURER	MODEL	SIZE (W" x H")	CFM	MIN FREE AREA (SF)	(FPM)	W.C.)	NOTES
EL 1	EF-1	EXHAUST	RUSKIN	ELF15J	36" x 12"	725	1.20	600	0.10	A-G
EL 2	EF-2	EXHAUST	RUSKIN	ELF15J	12" x 12"	300	0.50	600	0.10	A-G
EL 3	EF-3	EXHAUST	RUSKIN	ELF15J	36" x 12"	600	1.00	600	0.10	A-G
IL 3	FCU-3	INTAKE	RUSKIN	ELF15J	12" x 12"	100	0.25	400	0.10	A-G
IL 2	FCU-1 + FCU-2	INTAKE	RUSKIN	ELF15J	36" x 20"	1110	2.47	450	0.10	A-G

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:

PROVIDE 1/4" MESH ALUMINUM BIRD SCREEN. PROVIDE ANODIZED FINISH. COLOR AS SELECTED BY ARCHITECT. FRAME TYPE SHALL MATCH WALL CONSTRUCTION, COORDINATE WITH ARCHITECT.

OF WALL

REFER TO PLANS

FOR DUCT SIZE

CEILING

MINIMUM

U-SHAPED AIR DUCT SECTION

TWIST STRAP

LOAD RATED

STRAP (TYP)

DUCT (TYP)

ROUND

REFER TO ARCHITECTURAL

CONTINUOUS WALL SLEEVE -

BIRD OR INSECT SCREEN

DAMPER AS REQUIRED. SEE

MAINTAIN 1/8" GAP BETWEEN SLEEVE

AND BOTTOM OF LOUVER TO ALLOW

ON ALL SIDES.

4 LOUVER INSTALLATION DETAIL NTS

FREE DRAINAGE. PROVIDE SHIMS AS

NEEDED. DO NOT CAULK THIS GAP.

PLANS AND/OR SCHEDULE -

LOUVER AS SPECIFIED -

HEAD FLASHING

AS SPECIFIED -

SILL FLASHING -

SECURE DUCT

MINIMUM DEPTH OF PLENUM SHALL BE 2'-0".

TO SLEEVE -

AND/OR STRUCTURAL DRAWINGS

FOR WALL CONSTRUCTION AND

FRAMING DETAILS FOR OPENING

(MAX. 24"∅) (MAX. 36"∅)

1. USE THREADED ROD FOR RECTANGULAR DUCTS LARGER THAN 60" WIDE.

OMIT SHEET METAL SCREWS IF HANGER STRAP IS CONTINUOUS AND LOOPS UNDER ENTIRE

1. SEAL ALL JOINTS AND SEAMS OF PLENUM AND DUCT TO PROVIDE WATER TIGHT CONSTRUCTION.

4. SEAL GAP BETWEEN LOUVER AND SLEEVE WATER TIGHT ON TOP AND SIDES. DO NOT SEAL THE

3. DISTANCE FROM EDGE OF PLENUM TO TRANSITION SHALL BE NOT MORE THAN DEPTH OF PLENUM

PROVIDE INSULATION FOR PLENUM AND DUCT PER SPECIFICATIONS.

BOTTOM SO THAT WATER MAY BE PERMITTED TO DRAIN FREELY.

FOR ROUND DUCTS LARGER THAN 36"Ø. USE TWO HANGER RODS TO SUPPORT DUCT FROM EACH SIDE
 HANGERS MUST NOT DEFORM DUCT SHAPE.

(MAX. 36"∅)

SEE NOTE 2

- PLENUM (SEE NOTE 1)

TRANSITION FROM

TO DUCT

- SEE NOTE 3

MINIMUM 15°

PLENUM CONNECTION

(SEE PLANS)

FASTENER (TYP) -

SIZE AS HANGER

WHEN NECESSARY -

WITH 1" MIN

LINER -

PARTITION

OR WALL -

SUPPLY GRILLE OR

TODUCT COLLAR.

FOR NECK SIZE.

DIFFUSER SECURED

REFER TO DRAWINGS

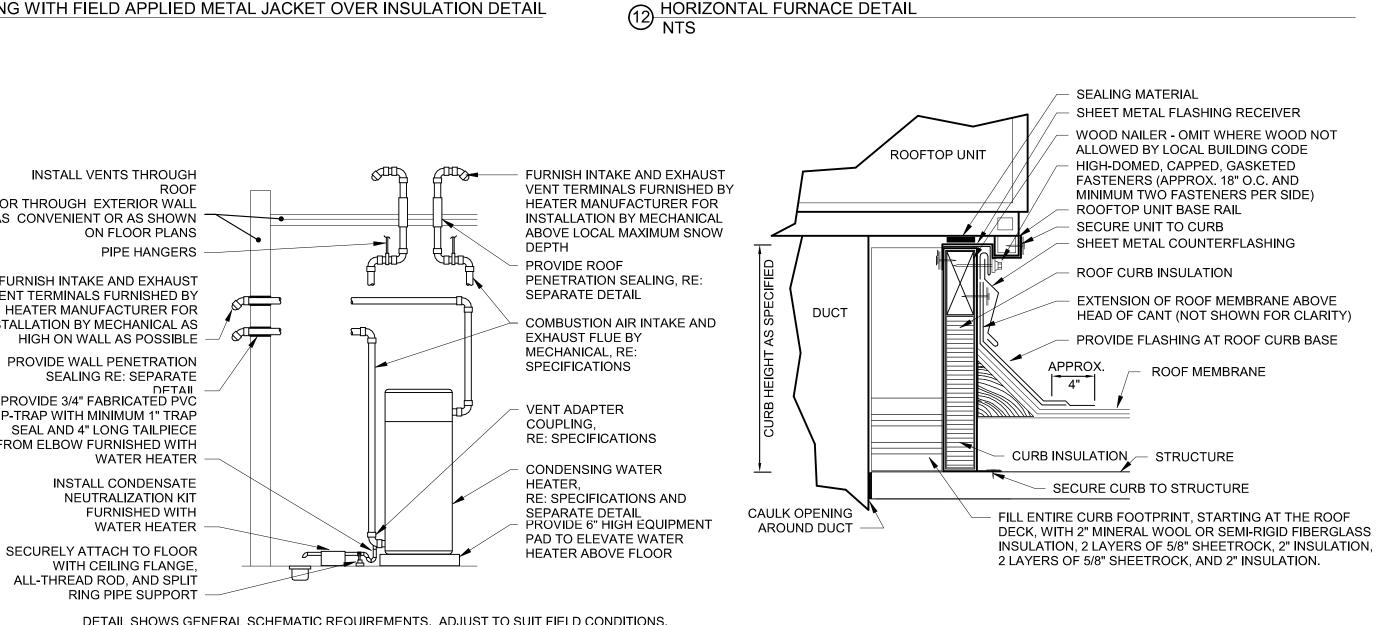
OVERSIZE DUCT

REGISTER FLANGE.

REFER TO DWG.'S FOR

REGISTER NECK SIZE.

COLLAR TO FIT



METALLIC OR NON-METALLIC

SHEET METAL

DUCTWORK

BAND OVER INSULATION -

**INSULATION STUFFED** 

HANG UNIT FROM STRUCTURE

ISOLATORS AND ALL-THREAD ROD

INDEPENDENTLY SUPPORT

DRAIN PAN FROM STRUCTURE

RA DUCT SHALL BE ├─

SAME SIZE AS UNIT RA

INLET UNLESS NOTED

OTHERWISE ON PLAN

WITH SPRING VIBRATION

AUXILIARY DRAIN PAN

RE: DRAIN PAN DETAIL

UNDER STANDOFF -

┌ 3/8"∅ ROD WITH

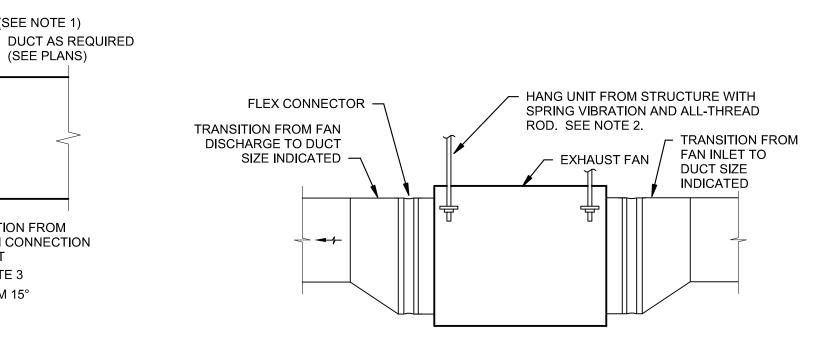
NYLON BEARING

∠ METALLIC OR

NON-METALLIC

DETAIL SHOWS GENERAL SCHEMATIC REQUIREMENTS. ADJUST TO SUIT FIELD CONDITIONS. INSTALL THROUGH ROOF OR THROUGH WALL AS SHOWN ON PLANS. REFER TO MANUFACTURERS INSTALLATION MANUAL FOR MORE INFORMATION: MAINTAIN PROPER DISTANCES FROM EACH OTHER, AND FROM OTHER CONSTRUCTION FEATURES; VERIFY PIPE SIZE FOR MAXIMUM LENGTH OF RUN AND QUANTITY OF FITTINGS. VERIFY WATER HEATERS PROVIDED WITH CONDENSATE NEUTRALIZATION KITS HAVE THEM PROVIDED.

STAINLESS STEEL WATER HEATER EXHAUST AND INTAKE DETAIL



ROD (TYP)

SHEET METAL

1. ARRANGEMENT SHOWN IS SCHEMATIC, ADJUST TO SUIT FIELD CONDITIONS AND MEET LOCAL CODE REQUIREMENTS. 2. FOR FANS 1 HP AND LESS, PROVIDE NEOPRENE RUBBER MOUNT HANGER (NR). FOR FANS LARGER THAN 1 HP, PROVIDE SPRING VIBRATION ISOLATION HANGER (SPNH).

3 IN-LINE FAN DETAIL NTS

2 CONDENSING UNIT SUPPORT DETAIL NTS

PROVIDE VIBRATION

ISOLATION PER

SPECIFICATIONS

STRUCTURE

NOTES:

RESTRAINT REQUIREMENTS

REQUIREMENTS

MOUNTING HEIGHT.

COUNTER FLASHING SECURED TO WALL EXTERIOR WALL (TYP) OVERLAPPING RIGID CONTINUOUS WEATHERPROOF DUCT WRAP (TYP) SEALANT (TYP) FLASHING SECURED 2"x2"x1/8" ANGLE SECURED TO EXTERIOR TO WALL ROUTED WALL AND TO SHEET METAL DUCT (TYP) UNDER RIGID DUCT INDOOR DUCT LINER AS SPECIFIED INDOOR EXTERNAL WRAP INSULATION. BUTT AGAINST EXTERIOR INSULATION AND SEAL PER SPECIFICATIONS. LINER AND EXTERIOR INSULATION OVERLAP 1 EXTERIOR INSULATION MIN 18 INCHES AS SPECIFIED (TYP) CONTINUOUS WEATHERPROOF SEALANT (TYP) -INTERIOR EXTERIOR PENETRATION WITH INDOOR DUCT LINER INTERIOR EXTERIOR PENETRATION WITH INDOOR DUCT WRAP

1. COORDINATE SIZE AND LOCATION OF DUCT WITH STRUCTURAL ENGINEER AND ARCHITECTURAL ELEVATIONS.

DUCT EXTERIOR WALL PENETRATION DETAIL

FASTEN TO STRUCTURE

3'-0" MAXIMUM SPACING

BETWEEN SUPPORTS

■ 1" BAND CLAMP

FLEXIBLE DUCT WITH INTEGRAL

PROVIDE DAMPER STANDOFF SUCH THAT

CAN BE ADJUSTED. APPLICABLE TO ALL

DAMPER EXTENDS BEYOND INSULATION AND

DAMPER OPERATOR TYPES (MANUAL, WORM

FURNACE COMBUSTION

COIL CONNECTIONS

- CONDENSATE DRAIN CONNECTION

**RE: PLUMBING DRAWINGS** 

- FLEXIBLE CONNECTOR

RE: COIL DETAILS

- DX COOLING COIL

∠ SA DUCT

STRUCTURE

AIR AND FLUE

INSULATION.

GEAR, ETC.).

- RELOCATE DAMPER IF SHOWN IN

DIFFERENT LOCATION ON PLANS

1. INSTALL FLEXIBLE DUCT IN AS STRAIGHT A RUN AS POSSIBLE. USE LONG RADIUS

5. DUCT SHALL EXTEND STRAIGHT FOR 6" FROM A CONNECTION BEFORE BENDING

INNER LINER & OUTER INSULATION SKIN WITH TAPE & METAL CLAMPS.

**FURNACE** 

1. ARRANGEMENT SHOWN IS SCHEMATIC, ADJUST TO SUIT FIELD CONDITIONS AND MEET LOCAL CODE

1.  $\,$  CUT METAL DECKING TO ALLOW CURB INSTALLATION ON STEEL FRAMING. AFTER CURB IS SET

CROSS FRAMING TO SUPPORT INTERIOR DECKING AND FILL MATERIAL AS REQUIRED.

2. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR ROOF CURBS,

CONDENSING UNIT

1. SUPPORT AND ANCHOR OUTDOOR UNITS IN COMPLIANCE WITH LOCAL SEISMIC AND WIND

2. SEE MECHANICAL EQUIPMENT ANCHORS AND SUPPORT SPECIFICATIONS FOR ADDITIONAL

3. REFER TO THE EQUIPMENT SCHEDULE AND MANUFACTURER'S REQUIREMENTS FOR UNIT

ANCHORING AND SEISMIC/WIND RESISTANCE.

IN PLACE, TRIM REMAINING METAL DECKING AND INSTALL WITHIN CURB, TACK WELD DECKING

TO SUPPORT STEEL. DO NOT WELD INTERIOR DECKING TO ROOF CURB. PROVIDE ADDITIONAL

SECURE CONDENSING

JNIT TO EQUIPMENT

SEE NOTE 3.

UNIT MOUNTING HEIGHT.

SUPPORTS.

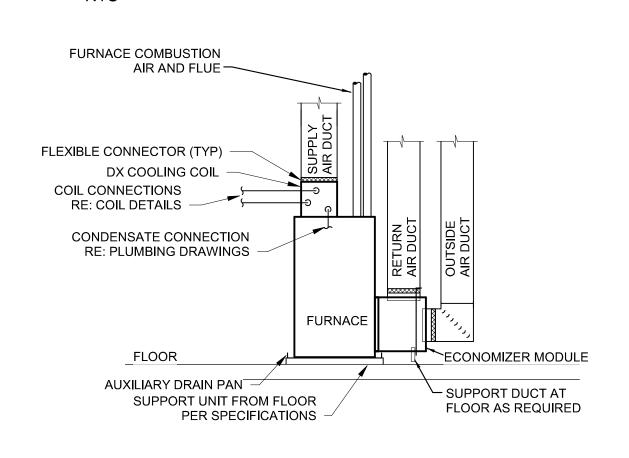
DAMPER AND FLEX DUCT CONNECTION DETAIL NTS

BENDS WHERE POSSIBLE. PULL DUCT TIGHT AT BOTH ENDS AND SECURE BOTH

2. EXTEND DAMPER ROD TO ACCOMMODATE INSULATION IF APPLICABLE. PULL ROD END

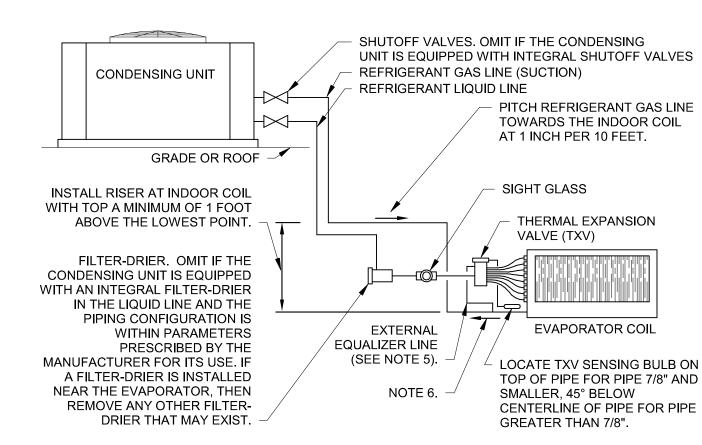
TO EDGE OF DUCTWORK AS REQUIRED AND SEAL TO MAINTAIN VAPOR BARRIER. INSTALL LOCKING QUADRANT TO HANDLE ON BOTTOM OF DUCT FOR EASE OF SERVICE

4. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH AND SHALL HAVE NO MORE THAN



1. ARRANGEMENT SHOWN IS SCHEMATIC, ADJUST TO SUIT FIELD CONDITIONS AND MEET LOCAL CODE REQUIREMENTS.

VERTICAL FURNACE DETAIL NTS

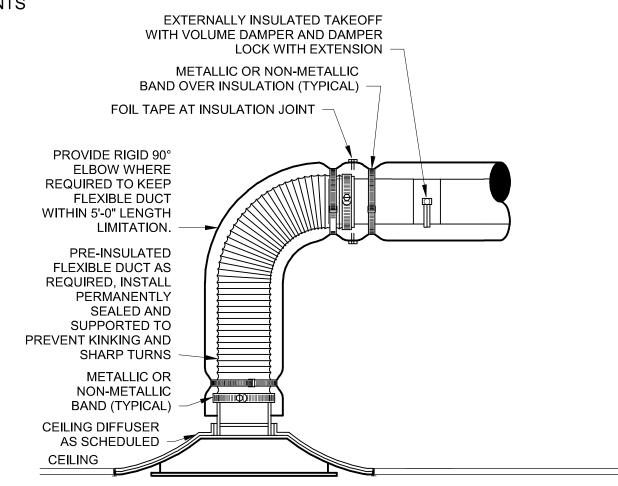


1. INSTALL REFRIGERANT PIPING AND COMPONENTS IN STRICT CONFORMANCE WITH ALL MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS, WHICH SHALL TAKE PRECEDENT OVER INFORMATION PRESENTED IN THIS DETAIL.

. ALL COMPONENTS INSTALLED SHALL BE THE EXACT MODEL RECOMMENDED BY THE MANUFACTURER. 3. CONSULT THE MANUFACTURER REGARDING THE NEED TO INSTALL A SOLENOID VALVE IN THE LIQUID LINE BETWEEN THE FILTER-DRIER AND SIGHT GLASS. 4. INSTALL REFRIGERATION PIPE SIZES RECOMMENDED BY THE MANUFACTURER AND CONSULT THE MANUFACTURER REGARDING THE NEED FOR INTERMEDIATE TRAPS BASED ON THE RECOMMENDED PIPE SIZES AND PIPING CONFIGURATION.

. INSTALL THERMAL EXPANSION VALVE WITH BALANCED PORT CONSTRUCTION AND EXTERNAL EQUALIZER LINES FOR ALL EVAPORATOR COILS EQUIPPED WITH A REFRIGERANT DISTRIBUTOR. PITCH REFRIGERANT GAS LINE AWAY FROM INDOOR COIL AT 1 INCH PER 10 FEET. . FILTER- DRIER MAY BE OMITTED IF NOT REQUIRED BY MANUFACTURER. 8. SIGHT GLASS MAY BE OMITTED IF NOT REQUIRED BY MANUFACTURER AND SYSTEM IS LESS THAN

6 SPLIT SYSTEM PIPING DETAIL NTS



1. FLEXIBLE DUCT LENGTH MAY NOT EXCEED 5'-0". EXTEND RIGID DUCT AS REQUIRED. 2. REFER TO SPECIFICATIONS FOR FLEXIBLE DUCTWORK INSTALLATION REQUIREMENTS.

PE-2022017017

ALESSANDRO . SPINELLI

LICENSE # PE-2022017017

DESCRIPTION DATE PROJECT NO: STATUS: PERMIT SET DATE: 11/01/2023 DRAWN BY LJ/EW CHECKED BY: © GLMV Architecture, Inc. All work herein is the property of GLMV Architectur the express written consent of GLMV Architecture, Inc. **MECHANICAL DETAILS** 

1" MIN LINER -

CEILING GRILLE

AS SCHEDULED

SADDLE TYPE DUCT

INVERTED DUCT

COLLAR -

ROUND SUPPLY DUCT -

SADDLE TYPE DUCT

WITH NEOPRENE

REGISTER MOUNTING TO ROUND DUCT DETAIL

GASKET (TYPICAL)

WITH NEOPRENE GASKET

NOTES:

SIDE VIEW

END VIEW

**1** 6" MIN

CEILING TO CEILING SECTION

10 RETURN TRANSFER AIR DUCT DETAILS
NTS

MINIMUM

1.5D

— CEILING

1. REFER TO FLOOR PLAN FOR OUTLET DEPTH. WHEN NO DEPTH IS SHOWN, MINIMUM DEPTH SHALL

**ROUND SUPPLY DUCT** 

BE AS REQUIRED TO LIMIT AIR VELOCITY TO 500 FPM WITH A MINIMUM SIZE OF 0.5D.

The sequence of operations, the points list and control diagrams shall be used to provide a complete description of the control philosophy for the controlled equipment. Individual setpoint values, reset ranges, and alarm action levels are listed in the points list. Components and control sensor locations are graphically depicted on the control diagram. The controls contractor shall be responsible for coordinating any necessary time delay setpoints to establish stable system operation.

GENERAL DESCRIPTION

The fan coil unit(s) described by this sequence of operations consist(s) of a constant speed supply fan, DX cooling coil, and gas heating furnace that operate to provide heating, ventilation, and air conditioning for the conditioned spaces as shown on the drawings.

# **OPERATING MODES**

OCCUPIED MODE: The unit shall be in occupied mode per the Project Design Conditions Schedule shown on the control drawings.

# The unit shall be in cooling mode when the zone temperature (Z-T) rises above the dead band (Z-T-DB).

The unit shall be in heating mode when the zone temperature (Z-T) falls below the dead band (Z-T-DB).

The unit shall be in unoccupied mode for all periods not included in the occupied hours of operation. Overrides of unoccupied schedule are defined at the zone level

#### FREEZE PROTECTION MODE LEVEL 1: The unit shall be in Freeze Protection Mode Level 1 when:

The Supply Air Temperature (SAT) is less than the Level 1 Low Limit Temperature Alarm Setpoint (LLT1-SP).

When in Freeze Protection Mode Level 1, an alarm shall generate at the operator workstation. The alarm shall automatically reset when the temperature is above the alarm setpoint for a duration that exceeds the Freeze Protection Level 1 Delay (FZ-DLY) setpoint.

#### FREEZE PROTECTION MODE LEVEL 2: The unit shall be in Freeze Protection Mode Level 2 when:

The Low Limit Temperature Controller 2 (LLT2) activates by sensing an air temperature less than its alarm setpoint. When in Freeze Protection Mode Level 2, an alarm shall generate at the operator workstation.

# The unit shall require a manual reset to exit Freeze Protection Level 2.

#### CONTROL SETPOINT RESETS Not used.

# SAFETIES, OVERRIDES AND INTERLOCKS

**SMOKE DETECTOR INTERLOCK:** The unit shall be disabled via hard wired interlock at the fan start circuit on activation of a system smoke detector.

#### FIRE ALARM CONTROL PANEL INTERLOCK: The unit shall be disabled via hard wired interlock at the fan start circuit upon receipt of signal from the fire alarm control panel. MOTORIZED DAMPER AT AIR INTAKE/EXHAUST INTERLOCK:

Motorized isolation dampers located at air intake and exhaust locations associated with the air handling unit shall be interlocked to be open when the unit fans are on, subject to the warm-up/cool-down modes.

#### LEAK DETECTION INTERLOCK (FCU-CND): The supply fan shall automatically shut down and the cooling coil shall be disabled upon detection of water in the overflow drain pan.

FREEZE PROTECTION MODE LEVEL 2 INTERLOCK: Disable the supply fan via hard wired interlock with the Level 2 Low Limit Temperature (LLT2) controller.

# The unit shall require a manual reset to exit Freeze Protection Level 2.

COMPONENT CONTROL LOOPS SUPPLY FAN CONTROL When in Occupied Mode:

# The fan shall be ON

#### The fan shall be OFF. On a call for cooling/heating or override signal from the zone level, the fan shall operate as in occupied mode until the call is cleared or the override is removed.

When in Freeze Protection Level 1 Mode: Operate as described in Occupied Mode.

#### When in Freeze Protection Level 2 Mode: Turn the fan off.

#### MINIMUM OUTSIDE AIR DAMPER (MOA) When in Occupied Mode:

The damper shall be open When in Unoccupied Mode:

#### The damper shall be closed. When in Freeze Protection Level 2 Mode:

Close the OA damper. Open the RA damper to the fully open position.

#### FILTER MONITORING When in All Modes:

The controller shall monitor the fan runtime to provide maintenance reminder at 50% of filter elapsed time of 1100 hours (adj.) and an alarm at 100% elapsed time of 2200 hours (adj.). COOLING COIL DX VARIABLE CONTROL (SINGLE COMPRESSOR)

# When in Occupied Mode:

When in Cooling Mode: The compressor shall stage or modulate (subject to the unit manufacturers standard safeties) to maintain the zone temperature setpoint (Z-T).

When in Heating Mode: The compressor shall be OFF.

#### When in Unoccupied Mode: The compressor shall be OFF

On a call for cooling or override signal from the zone level the compressor shall operate as in occupied mode until the call is cleared or the override is removed. Operate the natural gas heating coil and burner assembly subject to the unit manufacturers standard safeties. The natural gas heater remains off until Supply Air Fan (SF-ST) is proven on.

#### When in Occupied Mode: When in Cooling Mode:

Turn off the coil. When in Heating Mode:

Operate coil stages to maintain the Zone Temperature (Z-T) at the Zone Temperature Heating Setpoint (Z-T-H). When in Unoccupied Mode:

#### When in Cooling Mode: Turn off the coil.

Operate coil stages to maintain the Zone Temperature (Z-T) at the Zone Temperature Heating Setback Setpoint (Z-T-H-SB).

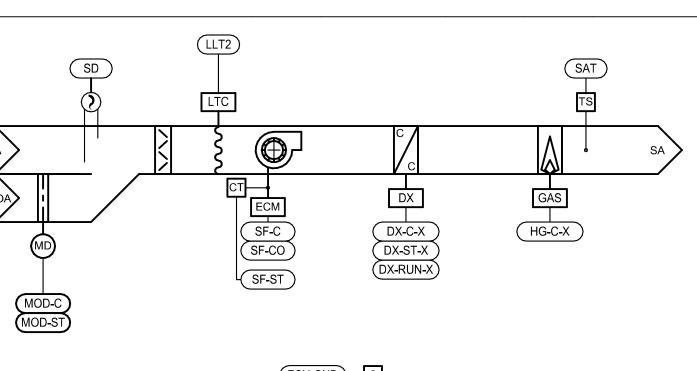
# When in Freeze Protection Mode Level 2:

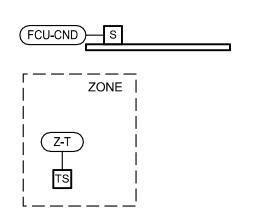
POINT ID	DESCRIPTION	POINT	DEFAULT	FAIL	STATUS	ALARM	NOTES
		TYPE	SET POINT	POSITION	ALARM	RANGE	
AIR SENSING				1			
SAT	SUPPLY AIR TEMPERATURE	Al			Х		
LLT1-SP	LEVEL 1 LOW LIMIT TEMPERATURE ALARM	AV	42 F		Х	SAT < LLT1-SP	Α
LLT2	LOW LIMIT TEMPERATURE CONTROLLER 2	BI	35 F		X	ON ACTIVIATION	А
ZONE LEVEL SENS	SORS						
Z-T	ZONE TEMPERATURE	Al	SCHED.				A, B
Z-T-DB	ZONE TEMPERATURE DEADBAND	BV	5 F				А
SUPPLY FAN				-			1
SF-C	SUPPLY FAN COMMAND (START/STOP)	ВО					
SF-CO	SUPPLY FAN CONTROL OUTPUT - SPEED	AO					
SF-ST	SUPPLY FAN STATUS	BI			X	SF-ST <> SF-C	
MINIMUM OUTSIDE	AIR DAMPER (2-POSITION)			-			
MOD-C	OUTSIDE AIR DAMPER COMMAND	ВО		NC			
MOD-ST	OUTSIDE AIR DAMPER STATUS (END SWITCH)	BI			X	MOD-ST <> MOD-C	
COOLING COIL - D	X BINARY STAGED						
DX-C-X	DX COMPRESSOR STAGE "X" COMMAND	ВО					С
DX-ST-X	DX COMPRESSOR STAGE "X" STATUS	BI			X	DX-ST <> DX-C	С
DX-RUN-X	DX COMPRESSOR STAGE "X" RUNTIME	AV					С
LEAK DETECTION				•			
FCU-CND	CONDENSATE OVERFLOW DETECTION	BI			X	ON ACTIVATION	
HEATING COIL - GA	AS FURNACE BINARY STAGED			•			
HG-C-X	GAS FURNACE HEAT STAGE "X" COMMAND	ВО					С
FIRE ALARM/SMOR	E DETECTORS						
FA-SD	FIRE ALARM SHUTDOWN AND STATUS	BV					
SD	SMOKE DETECTOR STATUS	BI			Х	ON ACTIVATION	D

A. POINT SHALL BE ADJUSTABLE.

REFERENCE PROJECT DESIGN CONDITIONS SCHEDULE FOR SETPOINT. COORDINATE NUMBER OF STAGES FOR CONTROL WITH EQUIPMENT FURNISHED.

DEVICE AND RELAY FROM FIRE ALARM SYSTEM PROVIDED BY DIVISION 28. DISPLAY DETECTOR RELAY STATUS (NORMAL/ALARM) AT BAS FRONT END.





4 FAN COIL UNIT WITH GAS HEAT CONTROL DIAGRAM
NTS

		,			PI	ROJE	CT D	ESI	GN C	CON	DITI	ONS						
CLIMATE CONDITONS										BUILDING	OPERATI	NG HOURS:						
WEATHER STATION:		LE	E'S SUM	IMIT						MONDAY	FRIDAY	TE	BD BY OWI	NER				
CLIMATE ZONE:		4A								SATURDA	Y	TE	BD BY OWI	NER				
HEATING (DB):	99.6%	4.5	°F							SUNDAY		TE	BD BY OWI	NER				
DESIGN HEATING CONDITIONS (DB):		4.5	°F							HOLIDAY		TE	BD BY OWI	NER				
HUMIDIFICATION (DP/ HR/ MCDB):	99.6%	-5.5	°F/	4.3	gr/lb	7.8 °F						•						
COOLING (DB/MCWB):	0.4%	95.5	°F/	75.3	°F/		_											
DESIGN COOLING CONDITIONS (DB/ MCW	B):	95.5	°F/	75.3	°F/	1												
DEHUMIDIFICATION (DP/ HR/ MCDB):	0.4%	75.4	°F/	137.9	gr/lb	86.0 °F												
SPACE / UNIT							SF.	T POINTS							SPACE	OPERATING	HOURS	NOTES
DESCRIPTION			COOLI	NG / DE-HUI	MIDIFIC	ATION			TING	HUMIDIF	ICATION	ZONE V	ENTILATIO	N RESET		PIED / UNOCO		
	OC	C °F	UNG	OCC °F		MAX	MIN	осс	UNOCC	MIN	MAX	CONTROL	BASE	MAXIMUM				
							RH %	°F	°F	RH %	RH %	METHOD	PPM	PPM	M-F	SAT	SUN	
PUBLIC AREAS		72		80		60%	N/A	70	60	N/A	N/A	CO2	400	900	TBD	TBD	TBD	A-D

.. ZONE LEVEL SET POINT CONDITIONS SHAL...

3. ZONE LEVEL OCCUPANCY HOUR SCHEDULE SHALL BE PER BUILDING OPERATING HOURS UNLESS OTHERWISE SCHEDULED

:. ZONE LEVEL CONTROLS SHALL BE CAPABLE OF OPERATING WITH INDEPENDENT OCCUPANCY SCHEDULES

CONTROL FEATURE	UNITS	RTU-1&2	POINT TYPE	NOTES
		SETPOINT	INTERFACE WITH	
		OR Y/N	DDC (READ/WRITE)	
BUILDING AUTOMATION SYSTEM (BAS)				
BAS MONITORING AND MANAGEMENT INTERFACE		N	BACNET	Α
SETPOINTS				
COOLING - OCCUPIED SETPOINT	°F	75	READ/WRITE	
COOLING - UNOCCUPIED SETPOINT	°F	80	READ/WRITE	
HEATING - OCCUPIED SETPOINT	°F	70	READ/WRITE	
HEATING - UNOCCUPIED SETPOINT	°F	60	READ/WRITE	
DEHUMIDIFICATION SETPOINT - HUMIDITY SENSOR FEEDBACK	% RH	60%	READ/WRITE	В
PROGRAMMED CONTROL FEATURES				
HVAC SYSTEM OCCUPIED/UNOCCUPIED MODE - PROGRAMMABLE THERMOSTAT		Υ	READ	В
HVAC SYSTEM OCCUPIED/UNOCCUPIED MODE - SCHEDULED THROUGH BAS		N	READ	В
MORNING WARM-UP SEQUENCE		Υ	WRITE	
MORNING COOL-DOWN SEQUENCE		Υ	WRITE	
EQUIPMENT ACCESSORIES AND CONTROL MODULES				
OUTSIDE AIR DAMPER - MOTOR OPERATED (MODULATING)		Υ	READ POSITION	L
INTEGRATED ECONOMIZER - DIFFERENTIAL ENTHALPY ENABLE (OA ENTHALPY < RA ENTHALPY)	BTU/LB	Y	READ	E
ECONOMIZER FAULT DETECTION AND DIAGNOSTICS (FDD) SYSTEM		Y	READ	F, G
RELIEF - VARIABLE VOLUME POWERED EXHAUST FAN	IN. W.C.	Υ	READ STATUS	Н
COOLING COIL (DX - VARIABLE SPEED)		Υ	READ STATUS	М
DEHUMIDIFICATION - HOT GAS REHEAT		Υ	READ STATUS	0
HEATING COIL (NATURAL GAS)		Υ	READ STATUS	М
SUPPLY FAN CONTROL METHODS				
ON DURING OCCUPIED HOURS		Υ		
CYCLE WITH LOADS DURING UNOCCUPIED HOURS		Y		
OPTIMUM START SEQUENCE		Υ		Т
VARIABLE VOLUME - MODULATE FAN SPEED IN RESPONSE TO ZONE TEMPERATURE		N	READ STATUS	M, R
SAFETIES, INTERLOCKS, AND ALARMS	1			
GAS VALVE SAFETY		Υ	READ	F
RETURN AIR SMOKE DETECTOR - SAFETY SHUTDOWN		Υ	READ	U
LOW LIMIT FREEZESTAT - FREEZE PROTECTION SAFETY SHUTDOWN		Υ	READ	F
FIRE ALARM CONTROL PANEL - SAFETY SHUTDOWN INTERLOCK		Υ	READ	

DIV. 23 CONTRACTOR SHALL PROVIDE CONTROL PANEL(S), WIRING, THERMOSTAT(S), TEMPERATURE SENSOR(S) HUMIDISTAT(S), AND/OR CO2 SENSOR(S) WHERE SHOWN ON THE DRAWINGS AND AS REQUIRED TO FACILITATE THE SCHEDULED CONTROL MODULES AND SEQUENCES OF OPERATION. EACH UNIT SHALL CONTROL BASED ON ITS OWN NTERNAL SAFETIES, TIME DELAYS, AND SEQUENCES UNLESS NOTED OTHERWISE. COORDINATE WITH OWNER FINA BUILDING AND EQUIPMENT SCHEDULES DURING STARTUP. REFERENCE DIVISION SPECIFICATIONS FOR INDIVIDUAL DEVICE REQUIREMENTS.

# PROVIDE UNIT WITH FACTORY MOUNTED DDC CONTROLS AND INTEGRATE INTO THE BAS. BAS SHALL PROVIDE REMOTE SETPOINT ADJUSTMENT, SCHEDULING, AND MONITORING OF THE POINTS LISTED IN THE SCHEDULE FOR

DIVISION 23 CONTRACTOR SHALL PROVIDE DEVICE. IF SETPOINT VALUE IS LISTED. IT INDICATES ECONOMIZER HIGH-LIMIT SHUTOFF. UNIT SHALL BE IN ECONOMIZER IF CONDITIONS ARE LESS THAN SETPOINT. THE FOLLOWING SENSORS SHALL DETERMINE ECONOMIZER ON POINT.

OUTSIDE AIR TEMPERATURE; DIVISION 23 PROVIDED AS PART OF ECONOMIZER CONTROL MODULE. RETURN AIR TEMPERATURE; DIVISION 23 PROVIDED AS PART OF ECONOMIZER CONTROL MODULE. OUTSIDE AIR HUMIDITY; DIVISION 23 PROVIDED AS PART OF ECONOMIZER CONTROL MODULE. RETURN AIR HUMIDITY; DIVISION 23 PROVIDED AS PART OF ECONOMIZER CONTROL MODULE.

DEVICE SHALL BE FACTORY MOUNTED AND PRE-WIRED FOR OPERATION SUBJECT TO THE ONBOARD CONTROLLER. PROVIDE UNIT WITH AN FDD SYSTEM CONSISTING OF PERMANENTLY INSTALLED OUTSIDE AIR, SUPPLY AIR, AND RETURN AIR TEMPERATURE SENSORS. THE UNIT CONTROLLER SHALL AT A MINIMUM BE CAPABLE OF PROVIDING SYSTEM STATUS OF ECONOMIZER, COMPRESSOR, HEATING, MIXED AIR LOW LIMIT ALARM, AND SENSOR VALUES. EACH OPERATING MODE SHALL BE CAPABLE OF INDEPENDENTLY OPERATING FOR TESTING. THE SYSTEM SHALL REPORT FAULTS TO AN APPLICATION ACCESSIBLE BY SERVICE PERSONNEL. THE FOLLOWING FAULTS SHALL BE DETECTED: AIR TEMPERATURE SENSOR FAILURE, ECONOMIZER ENABLED/DISABLED WHEN ECONOMIZER SHOULD BE OFF/ON, RESPECTIVELY, DAMPER NOT MODULATING, AND EXCESS OUTSIDE AIR.

POWERED EXHAUST FAN SHALL STAGE ON AND OFF ACCORDING TO DAMPER POSITION. POWERED EXHAUST FAN SHALL STAGE ON AND OFF ACCORDING TO BUILDING STATIC PRESSURE SENSOR. DIVISION 23 SHALL PROVIDE SENSOR. EQUIPMENT MANUFACTURER SHALL PROVIDE MODULATING DAMPER AND CONTROLS CAPABLE OF ADJUSTING THE

DAMPER POSITION TO MAINTAIN THE SCHEDULED OUTSIDE AIR ON THE DRAWINGS ACROSS ALL FAN SPEEDS. DIV. 23 CONTRACTOR SHALL PROGRAM MULTIPLE DAMPER POSITION SETPOINTS IN THE FIELD DURING TESTING AND BALANCING TO MAINTAIN MINIMUM VENTILATION WHEN NOT IN ECONOMIZER. DAMPER SHALL BE CLOSED DURING UNOCCUPIED HOURS.

UNITARY CONTROLLER SHALL MODULATE AND/OR CYCLE SUPPLY FAN SPEED SETTING AND COIL CAPACITY STAGES SUBJECT TO THE INTERNAL SAFETIES AND SEQUENCES TO MAINTAIN SCHEDULED SETPOINTS. PROGRAM DEHUMIDIFICATION SEQUENCE BASED ON RETURN AIR HUMIDITY.

PROVIDE MODULATING FAN CONTROL WITH MINIMUM SPEED LESS THAN 50% OF FULL SPEED. AT MINIMUM SPEED THE FAN SHALL DRAW NO MORE THAN 30% OF FULL SPEED POWER. DURING OPTIMUM START SEQUENCE, THE UNIT SHALL SUPPLY THE LESSER OF THE MINIMUM RATE OF OUTDOOR AIR

# OR SUPPLY 3 COMPLETE AIR CHANGES DURING THE 1-HOUR PERIOD BEFORE NORMAL OCCUPIED MODE. DIVISION 28 CONTRACTOR SHALL PROVIDE DEVICE.

#### SEQUENCE OF OPERATIONS COOLING ONLY SPLIT SYSTEM – IT ROOM

The sequence of operations is organized into the following main categories: operating modes; control setpoint resets; safeties, overrides and interlocks; and component control loops. The operating modes describe the criteria that either enable or disable the various modes of operation. If a mode of operation is not listed within a component control loop section then that mode of operation has no direct influence on the operation of the component. The control setpoint reset section describes the logic and reference variables that will be used to reset control setpoints to a new value within its reset range. The safeties, overrides, and interlocks section outlines the hardwired interlocks that are required to meet life safety requirements. Safeties and interlocks take precedence over all other control strategies outlined in this document. The control responses of each component for the various modes of operation are described in the component control loop sections. Setpoints shall be adjustable (adj.) as noted.

The sequence of operations, the points list and control diagrams shall be used to provide a complete description of the control philosophy for the controlled equipment. Individual setpoint values, reset ranges, and alarm action levels are listed in the points list. Components and control sensor locations are graphically depicted on the control diagram. The controls contractor shall be responsible for coordinating any necessary time delay setpoints to establish stable system operation.

# GENERAL DESCRIPTION

The fan coil unit(s) described by this sequence of operations consist(s) of a constant speed supply fan and DX cooling coil that operate to provide air conditioning for the conditioned spaces as shown on the drawings.

#### OPERATING MODES OCCUPIED MODE:

The unit shall be in occupied mode per the Project Design Conditions Schedule shown on the control drawings. The unit shall be in cooling mode when the zone temperature (Z-T) rises above the dead band (Z-T-DB). CONTROL SETPOINT RESETS

# SAFETIES, OVERRIDES AND INTERLOCKS

FIRE ALARM CONTROL PANEL INTERLOCK: The unit shall be disabled via hard wired interlock at the fan start circuit upon receipt of signal from the fire alarm control panel. **LEAK DETECTION INTERLOCK (FCU-CND):** The supply fan shall automatically shut down and the cooling coil shall be disabled upon detection of water in the overflow drain pan. COMPONENT CONTROL LOOPS SUPPLY FAN CONTROL

#### The fan shall be ON. FILTER MONITORING

When in Occupied Mode:

When in All Modes: The controller shall monitor the fan runtime to provide maintenance reminder at 50% of filter elapsed time of 1100 hours (adj.) and an alarm at 100% elapsed time of 2200 hours (adj.).

#### **COOLING COIL DX VARIABLE CONTROL (SINGLE COMPRESSOR)** When in Occupied Mode: When in Cooling Mode:

The compressor shall stage or modulate (subject to the unit manufacturers standard safeties) to maintain the zone temperature setpoint (Z-T).

MINI SPLIT CONTROL DIAGRAM

**SEQUENCE OF OPERATIONS** RR EXHAUST FAN

GENERAL DESCRIPTION

The units described by this sequence consist of a constant speed fan to exhaust the spaces shown in the

OPERATING MODES OCCUPIED MODE:

The fan shall be in occupied mode during occupied hours per the project design conditions schedule shown on the control drawings

**UNOCCUPIED MODE:** The fan shall be in unoccupied mode for all periods not included in the occupied hours of operation.

Unit shall reset automatically after relay signal has been cleared.

CONTROL SETPOINT RESETS Not Used.

SAFETIES, OVERRIDES AND INTERLOCKS

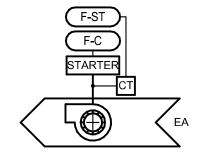
FIRE ALARM CONTROL PANEL INTERLOCK The unit shall be disabled via relay circuit signal from the fire alarm control panel. Division 28 shall provide the relay and leads from relay to unit. BAS contractor shall connect leads to unit. Display relay status (normal or alarm) at BAS front end.

COMPONENT CONTROL LOOPS

Turn off the fan.

#### FAN CONTROL - CONSTANT VOLUME BAS SCHEDULED When in Occupied Mode:

Turn on the fan. Use the ECM motor for soft start and to balance the fan for constant speed operation at the scheduled When in Unoccupied Mode



r — — — \_\_\_<u>ZONE</u>

L — — — — — —

**POINTS LIST - BAS CONTROLLED EXHAUST FAN** TYPE SETPOINT POSITION STORAGE DISPLAY ALARM RANGE SLOBAL VALUES FIRE ALARM SHUTDOWN AND STATUS X FAN COMMAND (START/STOP) F-ST <> F-C

ALL POINTS SHOWN SHALL BE PROVIDED BY BAS CONTRACTOR UNLESS NOTED OTHERWISE. PROVIDE UNIQUE POINT NAME FOR EACH CONTROL POINT CONSISTENT WITH THE MARK IDENTIFIER ON THE EQUIPMENT SCHEDULE (E.G. RH01-D-C) REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

A. REFERENCE GLOBAL BUILDING MONITORING SCHEDULE FOR CONTROL POINT.

#### **SEQUENCE OF OPERATIONS** KITCHEN GENERAL EXHAUST FAN

The units described by this sequence consist of a constant speed exhaust fan to exhaust the catering kitchen as shown in the drawings.

#### **OPERATING MODES** OCCUPIED MODE:

The fan shall be in occupied mode during occupied hours per the project design conditions schedule shown on the control

The fan shall be in unoccupied mode for all periods not included in the occupied hours of operation.

#### **CONTROL SETPOINT RESETS** Not Used.

SAFETIES, OVERRIDES AND INTERLOCKS

**AUTOMATIC OCCUPANCY OVERRIDE:** When in Unoccupied Mode:

COMPONENT CONTROL LOOPS

Override unit to Occupied Mode of operation based on input from Zone Occupancy Sensor (Z-OCC). Override shall persist until Zone Occupancy Override Delay (Z-OCC-DLY) has elapsed. **FIRE ALARM CONTROL PANEL INTERLOCK:** The unit shall be disabled via relay circuit signal from the fire alarm control panel. Division 28 shall provide the relay and leads

from relay to unit. BAS contractor shall connect leads to unit. Display relay status (normal or alarm) at BAS front end. Unit shall reset automatically after relay signal has been cleared.

# FAN CONTROL - CONSTANT VOLUME BAS SCHEDULED

When in Occupied Mode: Turn on the fan.

Use the ECM motor for soft start and to balance the fan for constant speed operation at the scheduled airflow value.

	POINTS LIS	ST - CA	ATERIN(	G KITCH	IEN EXH	<b>AUST F</b>	AN		
POINT ID	DESCRIPTION	POINT		FAIL	TRENDING	GRAPHIC	STATUS	ALARM	NOTES
		TYPE	SETPOINT	POSITION	STORAGE	DISPLAY	ALARM	RANGE	
GLOBAL VALUES					•				
FA-SD	FIRE ALARM SHUTDOWN AND STATUS	BV					X		А
ZONE LEVEL SENS	SORS								
Z-OCC	ZONE OCCUPANCY SENSOR	BI							В
Z-OCC-DLY	ZONE OCCUPANCY OVERRIDE DELAY	AV	1 HR						С
FAN	·				•				
F-C	FAN COMMAND (START/STOP)	ВО							
F-ST	FAN STATUS	BI						F-ST <> F-C	

ALL POINTS SHOWN SHALL BE PROVIDED BY BAS CONTRACTOR UNLESS NOTED OTHERWISE. PROVIDE UNIQUE POINT NAME FOR EACH CONTROL POINT CONSISTENT WITH THE MARK IDENTIFIER ON THE EQUIPMENT SCHEDULE (E.G. RH01-D-C) REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

. REFERENCE GLOBAL BUILDING MONITORING SCHEDULE FOR CONTROL POINT DIVISION 26 SHALL PROVIDE SENSOR WITH DRY CONTACT FOR BAS INTERFACE.

POINT SHALL BE ADJUSTABLE.

(2) KITCHEN GENERAL EXHAUST CONTROL DIAGRAM

POINT ID	DESCRIPTION	POINT	DEFAULT	FAIL	STATUS	ALARM	NOTES
		TYPE	SET POINT	POSITION	ALARM	RANGE	
ZONE LEVEL SENS	SORS	<u> </u>					
Z-T	ZONE TEMPERATURE	Al	SCHED.				A, B
Z-T-DB	ZONE TEMPERATURE DEADBAND	BV	5 F				Α
SUPPLY FAN							
SF-C	SUPPLY FAN COMMAND (START/STOP)	ВО					
SF-ST	SUPPLY FAN STATUS	BI			X	SF-ST <> SF-C	
COOLING COIL - D	X BINARY STAGED						
DX-C-X	DX COMPRESSOR STAGE "X" COMMAND	ВО					С
DX-ST-X	DX COMPRESSOR STAGE "X" STATUS	BI			X	DX-ST <> DX-C	С
DX-RUN-X	DX COMPRESSOR STAGE "X" RUNTIME	AV					С
LEAK DETECTION							
FCU-CND	CONDENSATE OVERFLOW DETECTION	BI			X	ON ACTIVATION	
FIRE ALARM/SMOI	KE DETECTORS''						
FA-SD	FIRE ALARM SHUTDOWN AND STATUS	BV					

FCU-CND s \_\_\_\_\_ CONTROL FCU

\_\_\_\_\_

DESCRIPTION DATE PROJECT NO: STATUS: PERMIT SET DATE: DRAWN BY CHECKED BY:

> **MECHANICAL** CONTROLS

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11/01/2023

LJ/EW

ALESSANDRO . SPINELLI

LICENSE # PE-2022017017

# SPECIAL SYSTEMS SUPPLEMENTAL SPECIFICATIONS:

ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING

EXISTING ---

DEMOLISH — — — —

\* APPLIES TO COLOR PLOTS ONLY

LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE,

ARTICLE 700 OR

ARTICLE 701 OR

ARTICLE 702 OR

OPTIONAL\* -

11. ALL LOW VOLTAGE CLASS 2 OR 3 WIRING NOT IN CONDUIT SHALL BE PLENUM RATED WHERE APPLICABLE.

LIFE SAFETY\*

1. PROVIDE NECESSARY BOXES, CONDUIT AND MAKE FINAL CONNECTIONS TO TEMPERATURE CONTROL DEVICES PER MANUFACTURER'S RECOMMENDATIONS. THIS INCLUDES BUT IS NOT LIMITED TO: MAIN CONTROL WIRING, AHU CONTROL WIRING, DUCT FURNACE CONTROL WIRING, TIMERS, AND SIMILAR CONTROLS. PROVIDE CONDUIT FOR ALL WIRING WITHIN WALLS. PROVIDE CONTROL AND INTERLOCK WIRING WHEN NOT PROVIDED BY OTHER TRADES. COORDINATE REQUIREMENTS WITH EQUIPMENT SUPPLIERS AND OTHER TRADES PRIOR TO ROUGH-IN.

CEILING/FLOOR MOUNT JUNCTION/OUTLET BOX

SYMBOL DEMONSTRATED WITH DUPLEX RECEPTACLE. WHEN USED IN

COMBINATION WITH OTHER DEVICES MEANING IS SIMILAR FOR THOSE

WALL MOUNT JUNCTION/OUTLET BOX

REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR MORE

DEVICE TYPES.

INFORMATION.

**┤**←∏ı CAPACITOR

HEATER

MOTOR

×F# ×FP# VOLTAGE DROP SPREADSHEET

BLOCK LOAD KW OR KVA

FAULT POINT REFERENCED IN SHORT CIRCUIT CURRENT AND

2. PROVIDE LINE VOLTAGE WIRING AND MAKE FINAL CONNECTIONS TO ALL DUCT-MOUNTED SMOKE DETECTORS, FIRE/SMOKE AND SMOKE DAMPERS WHERE APPLICABLE. COORDINATE REQUIREMENTS WITH OTHER TRADES PRIOR TO INSTALLATION.

CONTROL DIAGRAMS FOR ADDITIONAL CIRCUITING

REQUIREMENTS.

HATCHING LEGEND

ENLARGED PLAN

NOT IN SCOPE (NIS)

3. DEVICES MOUNTED ON ACOUSTICAL TILE CEILINGS SHALL BE CENTERED ON THE TILE, UNO.

CRITICAL / EQUIPMENT BRANCH\*

4. PROVIDE BOX AND 3/4" CONDUIT FROM EACH THERMOSTAT LOCATION TO MECHANICAL EQUIPMENT, (FLUSH MOUNT BOX WHEREVER PRACTICABLE). COORDINATE LOCATION OF ALL THERMOSTAT BOXES WITH MECHANICAL/CONTROLS CONTRACTOR AND OWNER PRIOR TO ROUGH-IN.

 $\longrightarrow\longrightarrow\longrightarrow\longrightarrow\longrightarrow$ 

- 5. PROVIDE BOXES AND CONDUITS FOR THE FIRE PROTECTION SYSTEM LOW VOLTAGE WIRING AS REQUIRED. THIS INCLUDES EXPOSED WIRING, PROVIDE 3/4" CONDUIT, UNLESS NOTED OTHERWISE. COORDINATE REQUIREMENTS AND LOCATIONS WITH SYSTEM INSTALLER AND FIRE ALARM SPECIFICATIONS.
- 6. AT A MINIMUM, PROVIDE EXTRA DEEP, DOUBLE GANG COMMUNICATION OUTLET BOXES, (FLUSH MOUNTED WHEREVER PRACTICABLE), WITH SINGLE-GANG PLASTER RING AND 1" CONDUIT STUBBED-UP CONCEALED TO ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHER WISE. PROVIDE SURFACE MOUNTED DATA BOXES WITHIN CABINETRY, AND SELECT OTHER LOCATIONS AS INDICATED ON THE DRAWINGS. COORDINATE TELEPHONE/DATA BOX AND CONDUIT LOCATIONS AND SIZES WITH OWNER AND OTHER TRADES PRIOR TO ROUGH-IN.
- 7. PROVIDE NYLON BUSHINGS FOR ALL COMMUNICATIONS AND LOW VOLTAGE WIRING CONDUITS AND SLEEVES, UNLESS NOTED OTHERWISE.
- PROVIDE NYLON BOSHINGS FOR ALL COMMUNICATIONS AND LOW VOLTAGE WIRING CONDUITS AND SLEEVES, UNLESS NOTED OTHERWISE.
   ALL COMMUNICATIONS AND LOW VOLTAGE WIRING CONDUIT SHALL BE INSTALLED WITH AN ACCESSIBLE PULLBOX BETWEEN EVERY 180 DEGREE CHANGE IN DIRECTION AND AT 100' INTERVALS OF CONTINUOUS RUNS.
- 9. MINIMUM BEND RADIUS FOR COMMUNICATIONS CONDUIT IS 6 TIMES THE INSIDE DIAMETER FOR CONDUITS 2" IN DIAMETER AND SMALLER AND 10 TIMES THE INSIDE DIAMETER FOR CONDUITS GREATER THAN 2" IN DIAMETER, UNLESS NOTED OTHERWISE.
- 10. LOW VOLTAGE COMMUNICATION, ENERGY MANAGEMENT, SOUND SYSTEM, SECURITY AND RELATED WIRING IS TO BE PERFORMED BY OTHERS UNDER A SEPARATE CONTRACT, UNLESS NOTED OTHERWISE. PROVIDE BOXES AND CONDUIT IN FINISHED AND RATED FLOORS/WALLS/CEILINGS TO ACCESSIBLE LOCATIONS FOR ALL LOW VOLTAGE WIRING. PROVIDE ALL LINE VOLTAGE CIRCUITRY (120V AND HIGHER) TO OWNER FURNISHED EQUIPMENT AND LOW VOLTAGE STEP-DOWN TRANSFORMERS AS REQUIRED. COORDINATE ELECTRICAL REQUIREMENTS AND LOCATIONS WITH SYSTEM INSTALLER AND OWNER.
- 12. LOW VOLTAGE CABLE SHEATH LABELS AND RELATED MANUFACTURER INFO SHALL REMAIN APPARENT IN ALL EXPOSED APPLICATIONS. PROTECT ALL EXPOSED CABLING FROM PAINTING AND OVERSPRAY (INCLUDES CABLE NOT ROUTED IN CONDUIT AND THAT IS IN CABLE TRAY).
- 13. CABLES SHALL BE ROUTED THROUGH THE BUILDING CABLE TRAY/RACEWAY SYSTEM, UNLESS NOTED OTHERWISE. EXPOSED TO STRUCTURE UNLESS SPECIFICALLY PERMITTED BY THE OWNER. IN AREAS WHERE EXPOSED CABLES ARE ALLOWED, IT SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER IN ACCORDANCE WITH THE OWNER'S REQUIREMENTS. WHERE REQUIRED, PROVIDE CONDUIT TO ROUTE LOW VOLTAGE CABLING TO THE CABLE TRAY OR NEAREST ACCESSIBLE CEILING SPACE.
- 14. CONDUITS FOR COMMUNICATIONS OUTLETS SERVING ELEVATOR EQUIPMENT ROOMS, FACP, AND SIMILAR CRITICAL EQUIPMENT AS DESIGNATED BY THE OWNER SHALL BE CONTINUOUS ("HOMERUN") FROM OUTLET TO SERVING COMMUNICATIONS ROOM.

# APPLICABLE ELECTRICAL CODES:

NOTE: PROJECT IS DESIGNED IN COMPLIANCE WITH THE FOLLOWING CODES. THIS IS NOT AN EXHAUSTIVE LIST. PROJECT SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS AND LOCAL REQUIREMENTS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE, (NFPA 70)
BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE

# COMMISSIONING / FUNCTIONAL TESTING

CONTRACTOR'S BID SHALL INCLUDE PROVISIONS TO PROVIDE ALL SERVICES RELATED TO THE CODE REQUIRED BUILDING SYSTEMS COMMISSIONING INCLUDING A COMMISSIONING PLAN, FUNCTIONAL TESTING, AND RELATED DOCUMENTATION, REPORTS AND OWNER TRAINING. THIS INCLUDES RETAINING THE SERVICES OF A 3RD PARTY REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY. REFER TO THE LATEST ADOPTED EDITION OF THE APPLICABLE ENERGY CODE FOR MORE INFORMATION. CONTRACTOR SHALL COMPLETE ALL RELATED COMMISSIONING REQUIREMENTS PRIOR TO FINAL INSPECTIONS IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, CODE AND MANUFACTURER'S INSTRUCTIONS.

#### **ELECTRICAL SUPPLEMENTAL SPECIFICATIONS:**

- 1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS. AS APPLICABLE, REVIEW THE LANDLORD CRITERIA, GENERAL NOTES, OTHER TRADE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMITTING BID.
- ALL WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES
   AS WELL AS APPLICABLE INDUSTRY STANDARDS. ALL EQUIPMENT
   SHALL BEAR LABELS FOR THE USE INTENDED BY AN AHJ ACCEPTED
   NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL), SUCH AS UL
   OR ETL. THE FINAL ELECTRICAL INSTALLATION OF THE FACILITY
   OCCUPIED BY OWNER SHALL BE FREE FROM ELECTRICAL DEFECTS TO
   THE SATISFACTION OF THE AHJ, OWNER, ARCHITECT AND ENGINEER.
- 3. COORDINATE FINAL LOCATION AND INSTALLATION REQUIREMENTS OF ALL LIGHT FIXTURES, ELECTRICAL EQUIPMENT AND ELECTRICAL DEVICES WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS AND OTHER TRADES PRIOR TO ROUGH-IN. PROVIDE ALL NECESSARY DEVICES, CORDS, PLUGS, DISCONNECTS AND FINAL CONNECTIONS TO ELECTRICAL EQUIPMENT FOR PROPER OPERATION IN ACCORDANCE WITH CODE, OWNER AND MANUFACTURER REQUIREMENTS.
- 4. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC/SCHEMATIC IN NATURE AND REPRESENT THE GENERAL SCOPE OF WORK. IT IS NOT WITHIN THE SCOPE OF THE ELECTRICAL DRAWINGS TO SHOW ALL NECESSARY RACEWAY ROUTING, BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF EQUIPMENT AND WIRING DEVICES WITH OTHER TRADES PRIOR TO INSTALLATION AND INSTALL ALL WORK TO CONFORM TO THE OWNER REQUIREMENTS.
- 5. ALL CONDUCTOR AND CONDUIT LENGTHS SHOWN IN THESE DESIGN DOCUMENTS ARE INTENDED SOLELY FOR USE IN THE DESIGN CALCULATIONS BY THE DESIGN PROFESSIONAL, UNLESS NOTED OTHERWISE. LENGTHS SHOWN SHALL NOT BE USED TO ASSIST IN THE BIDDING TAKEOFF PROCESS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MATERIAL QUANTITIES REQUIRED TO BID AND CONSTRUCT THE COMPLETE PROJECT.
- 6. PROVIDE PROPER FIRE PROOFING AND SEALANT FOR PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. THE FIRE STOPPING METHOD, MATERIAL AND ITS APPLICATION SHALL BE NRTL LISTED, CODE COMPLIANT AND APPROVED BY AHJ.
- 7. FOR CAST-IN-PLACE CONCRETE, TILT-UP WALLS, PRECAST OR SIMILAR PRE-ENGINEERED WALL SYSTEMS: COORDINATE THE FINAL LOCATION OF ALL ELECTRICAL DEVICES, RACEWAYS, LIGHT FIXTURES AND PENETRATIONS WITH ARCHITECT, WALL SUPPLIER AND OTHER TRADES PRIOR TO WALL CONSTRUCTION. CONDUIT/RACEWAY IMBEDDED IN CONCRETE WALLS SHALL BE SCHEDULE 80 PVC OR LFMC; OTHER TYPES MAY BE ALLOWED IF APPROVED BY WALL SYSTEM MANUFACTURER AND ENGINEER.
- 8. WHEN CONCRETE TRENCHING/CORING IS REQUIRED, THE METHODS, DEPTHS, AND LOCATIONS SHALL BE PRE-APPROVED BY LANDLORD, ARCHITECT, AND STRUCTURAL ENGINEER PRIOR TO THE START OF WORK. X-RAY SLAB AS NECESSARY TO AVOID DAMAGING ANY UNDERSLAB UTILITIES OR STRUCTURE. SLAB REPLACEMENT SHALL BE INSTALLED WITH DOWELLING AND REINFORCED CONCRETE AS DIRECTED BY THE STRUCTURAL ENGINEER. WHERE SLAB ON GRADE IS SAW-CUT AND REMOVED FOR TRENCHING THE CONTRACTOR SHALL INSTALL MOISTURE BARRIER PER LANDLORD'S REQUIREMENTS. PROVIDE 3/4" MINIMUM CONDUITS ROUTED THROUGH SLAB AND STUBBED UP INTO DEVICES. FOR SLAB ON DECK, THE FLOOR SHALL BE SLEEVED AND EQUIPPED WITH THE APPROPRIATE LISTED ASSEMBLY. PROVIDE 3/4" MINIMUM CONDUITS ROUTED BELOW SLAB, TIGHT TO STRUCTURE, AND STUBBED UP INTO DEVICES.
- 9. ALL APPLICABLE SWITCHES, RECEPTACLES, OUTLETS, AND CONTROLS SHALL BE PLACED AT HEIGHTS THAT ARE IN ACCORDANCE WITH ADA ACCESSIBILITY GUIDELINES.
- 10. COORDINATE FLOOR MOUNTED BOX, RECEPTACLE, AND COVER PLATE TYPES WITH ARCHITECT AND OWNER PRIOR TO ORDER.
- 11. WIRING DEVICES ADJACENT TO EACH OTHER SHALL BE INSTALLED UNDER A SINGLE COVER PLATE, UNO.
- 12. WIRING DEVICES SHOWN BACK-TO-BACK ON A COMMON WALL SHALL BE OFFSET A MINIMUM OF 12" HORIZONTALLY TO REDUCE SOUND TRANSMISSION BETWEEN ROOMS, UNO.
- 13. ALL WP OUTLET BOX HOODS SHALL BE "EXTRA-DUTY" AND "WHILE-IN-USE COVER" TYPE. OUTLET BOX HOODS SHALL BE LOW PROFILE WHEREVER PRACTICABLE, UNLESS NOTED OTHERWISE. THE USE OF LARGE BUBBLE COVERS SHALL BE AVOIDED ON THE EXTERIOR OF THE BUILDING OR BEHIND EQUIPMENT IN ORDER TO PREVENT DAMAGE TO THE COVER AND TO ALLOW THE EQUIPMENT TO BE LOCATED CLOSE TO THE WALL.
- 14. ALL 120V RECEPTACLES 50A OR LESS, 208V AND 240V RECEPTACLES 100A OR LESS, SHALL BE GFCI PROTECTED IN LOCATIONS REQUIRED BY CODE; THIS INCLUDES BATHROOMS, KITCHENS/FOOD PREP AREAS, EXTERIOR LOCATIONS AND RECEPTACLES WITHIN 6 FEET OF A SINK. GFCI RECEPTACLES SHALL BE READILY ACCESSIBLE AND SHALL NOT BE LOCATED BEHIND STATIONARY EQUIPMENT. GFCI PROTECTION MAY BE VIA A GFCI CIRCUIT BREAKER OR GFCI RECEPTACLE, UNLESS NOTED OTHERWISE. WHERE NECESSARY, GFCI PROTECTION MAY BE ACHIEVED VIA A BLANK FACE GFCI DEVICE LOCATED IN A READILY ACCESSIBLE LOCATION NEAR RECEPTACLE BEING PROTECTED. FOR DOWNSTREAM WIRING DEVICES LOCATED ON THE SAME BRANCH CIRCUIT, THE GFCI PROTECTION MAY BE PROVIDED FOR BY A SINGLE UPSTREAM DEVICE IF ALL PROTECTED DEVICES ARE LABELED PER
- 15. PROVIDE TAMPER-RESISTANT (TR) TYPE RECEPTACLES AT ALL CODE REQUIRED LOCATIONS AND AT LOCATIONS WHERE RECEPTACLES ARE MOUNTED LESS THAN 5'-6" AFF AND ARE EASILY ACCESSIBLE BY CHILDREN, UNLESS NOTED OTHERWISE.
- MOUNTED LESS THAN 5'-6" AFF AND ARE EASILY ACCESSIBLE BY CHILDREN, UNLESS NOTED OTHERWISE.

  16. FLEXIBLE CONDUIT IS ONLY PERMITTED WHERE SPECIFICALLY ALLOWED IN THE CONSTRUCTION DOCUMENTS, WHERE CONCEALED

FROM VIEW OR EXPOSED FINAL CONNECTIONS TO LIGHT FIXTURES

STRINGS. TERMINATE CONDUIT STUB-UP WITH A NYLON BUSHING.

- AND EQUIPMENT IN LENGTHS OF 6'-0" OR LESS.

  17. ALL EMPTY CONDUIT/RACEWAY SHALL BE INSTALLED WITH PULL
- 18. EXPOSED CONDUIT/RACEWAY SHALL BE PAINTED TO MATCH ADJACENT SURFACE, UNLESS NOTED OTHERWISE. COORDINATE REQUIREMENTS WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
- 19. CONDUITS/RACEWAYS SHALL BE CONCEALED FROM VIEW WHEREVER PRACTICABLE, UNLESS NOTED OTHERWISE. ROUTE CONDUITS SERVING ROOFTOP EQUIPMENT CONCEALED INSIDE EQUIPMENT CURB AND MINIMIZE ROOF PENETRATIONS AND EXTERIOR CONDUIT RUNS WHERE PRACTICABLE. SUPPORT RACEWAY FROM STRUCTURE, NOT ROOF DECK. MAINTAIN 2" MIN SPACING FROM BOTTOM OF ROOF DECK TO PREVENT ROOFING SCREWS FROM PENETRATING RACEWAY. DO NOT ROUTE CONDUITS ACROSS SKYLIGHTS, ACCESS PANELS, HATCHED TILES, HVAC DIFFUSERS, OR EQUIPMENT WORKING CLEARANCE SPACE. ROUTE ALL EXPOSED NON-FLEXIBLE CONDUITS TIGHT TO STRUCTURE, PARALLEL TO BUILDING LINES AND IN STRUT OR CABLE/PIPE TRAY WHERE PRACTICABLE. INSTALL CONDUITS PLUMB/LEVEL WHERE EXPOSED TO VIEW. COORDINATE RACEWAY ROUTING AND INSTALLATION WITH OTHER TRADES PRIOR TO ROUGH-IN.
- 20. WHERE PRACTICABLE, ALL UNDER-FLOOR/UNDER-GROUND CONDUITS/RACEWAY SHALL BE INSTALLED A MINIMUM OF 24" BELOW BOTTOM OF SLAB/PAVING/GRADE, UNLESS NOTED OTHERWISE. NOTE: THE DESIGN INTENT FOR INSTALLING ELECTRICAL CIRCUITRY AT THIS DEPTH IS TO PROTECT THE ELECTRICAL CIRCUITRY FROM DAMAGE
- DUE TO FUTURE WORK.

  21. PROVIDE LABEL AT EACH RECEPTACLE COVER PLATE WITH THE RESPECTIVE "PNLBD-CKT#" DESIGNATION. COORDINATE LABEL REQUIREMENTS WITH THE OWNER PRIOR TO INSTALLATION. REFER TO
- THE SPECIFICATIONS FOR MORE INFORMATION.

  22. MULTIWIRE BRANCH CIRCUITS ARE NOT ALLOWED, UNLESS NOTED

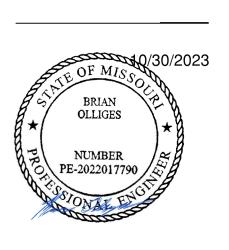
OTHERWISE.

23. PROVIDE INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR ALL CIRCUITS, UNLESS NOTED OTHERWISE.



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EXPIRES 10/31/2024



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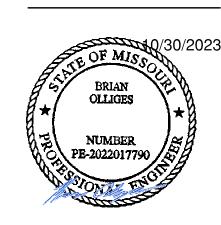
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ELECTRICAL ENERAL NOTES AND LEGEND

E-000







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ELECTRICAL SITE

PLAN

1) ELECTRICAL SITE PLAN

E-100

LIGHTING PLAN

E-101

**ELECTRICAL PLAN NOTES:** 

E2 PROVIDE 1" CONDUITS WITH PULL STRINGS TO FIVE FEET OUTSIDE EXTERIOR WALL INDICATED FOR PLAZA SITE LIGHTING CIRCUITRY. REFERENCE LANDSCAPE AND CIVIL CONSTRUCTION DOCUMENTS FOR BRANCH CIRCUIT QUANTITIES AND LOCATIONS.

E5 BACK-LIT MIRRORS SPECIFIED BY OTHERS. COORDINATE CONNECTION BOX INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER, PROVIDE SEPARATE CONTROL RELAY AS INDICATED TO CONTROL MIRROR

SEPARATELY FROM GENERAL RESTROOM LIGHTING. E6 CONTROL VIA REMOTELY LOCATED ROOM CONTROLLER ON ZONE INDICATED. PROVIDE EMERGENCY BRANCH CIRCUIT FROM LIGHTING INV1. PROVIDE AUTOMATIC LOAD CONTROL RELAY AS SPECIFIED WITH IOTA LIGHTING INVERTER. RE: 01/E-500

E8 PROVIDE EMERGENCY BRANCH CIRCUIT FROM LIGHTING INV1. PROVIDE AUTOMATIC LOAD CONTROL RELAY AS SPECIFIED WITH IOTA LIGHTING INVERTER. REFERENCE

01/E-500. E11 LIGHTING CONTROL RELAY PANEL SPECIFIED BY OTHERS.

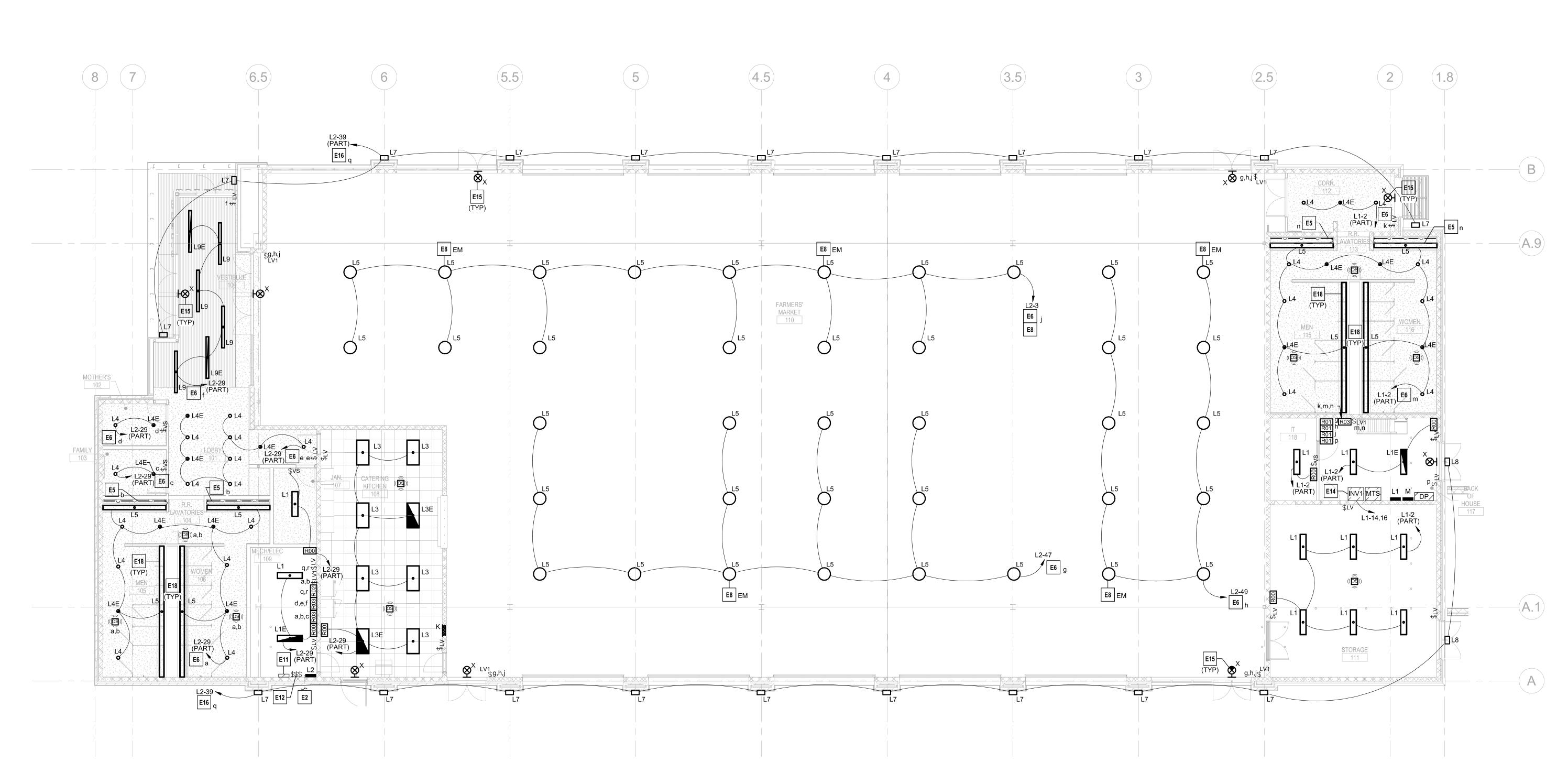
REFERENCE LANDSCAPE AND CIVIL CONSTRUCTION DOCUMENTS FOR ADDITIONAL INFORMATION. E12 REMOTELY LOCATED SWITCHES FOR CIVIL/LANDSCAPE

LIGHTING. COORDINATE WITH SITE ELECTRICAL PLANS. E14 PROVIDE 2.25KW IOTA LIGHTING INVERTER MODEL# IIS-2250-208IN-120OUT-ST-BACNET-BATINST-5YR-OB4-IP120-2 0AMP-ON-EXTPASS OR APPROVED EQUAL. INVERTER SHALL BE EQUIPPED WITH MAINTENANCE BYPASS FOR CONNECTION OF TEMPORARY INVERTER PER NEC 700.3(F). ORDER WITH ALCR MODEL# ETS-20-DR ACCESSORY FOR EACH CIRCUIT BEING FED FROM INVERTER.

E15 CONNECT ALL EXIT SIGNS TO UNSWITCHED LIGHTING

BRANCH CIRCUIT IN SPACE. E16 FIELD LOCATE PHOTOCELL ON ROOF FACING NORTH. FIXTURE TO OPERATE DUSK-TO-DAWN VIA ZONE

CONTROLLER INDICATED. E18 COORDINATE COVE LIGHTING FIXTURE MOUNTING WITH ARCHITECTURAL CEILING.



- E3 PROVIDE SIX (6) 1"C. WITH PULL STRING TO FIVE FEET OUTSIDE EXTERIOR WALL INDICATED FOR PLAZA SITE RECEPTACLE CIRCUITRY. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND BRANCH CIRCUIT FEEDERS AS
- INDICATED ON CIVIL CONSTRUCTION DOCUMENTS.
  E11 LIGHTING CONTROL RELAY PANEL SPECIFIED BY OTHERS.
  REFERENCE LANDSCAPE AND CIVIL CONSTRUCTION
- REFERENCE LANDSCAPE AND CIVIL CONSTRUCTION DOCUMENTS FOR ADDITIONAL INFORMATION.

  E20 PROVIDE 2" C. WITH PULL STRING TO MECH/ELEC 109 FOR
- FUTURE CANOPY SIGNAGE.

  E21 PROVIDE SINGLE-GANG JUNCTION BOX AT CARD READER LOCATION AND ABOVE DOOR JAMB FOR ELECTRIC LOCK POWER. ROUTE 3/4"C FROM DOOR JAMB TO LATCH. COORDINATE FINAL CONDUIT AND CONNECTION REQUIRES WITH DOOR MANUFACTURER SPECIFIED IN ARCHITECTURAL CONSTRUCTION DOCUMENTS.

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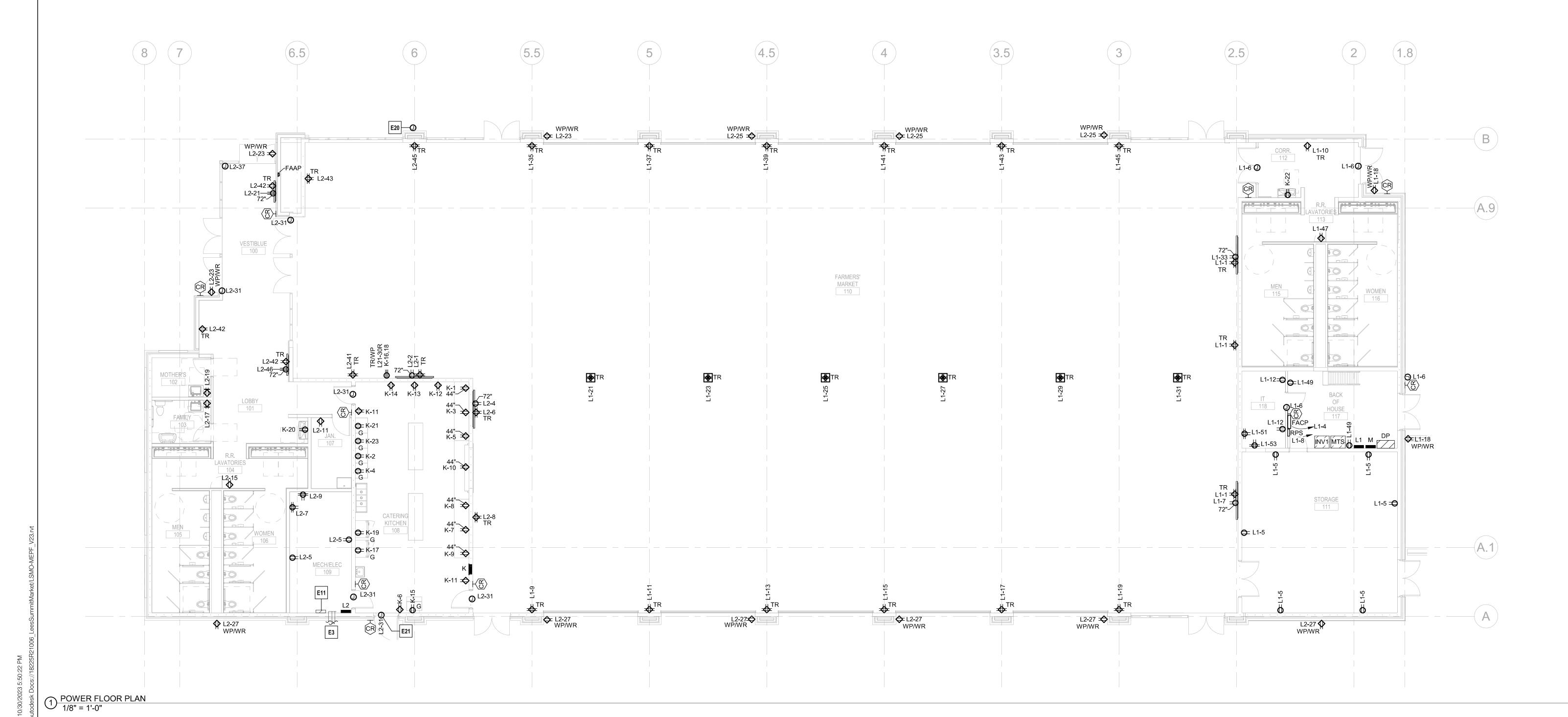
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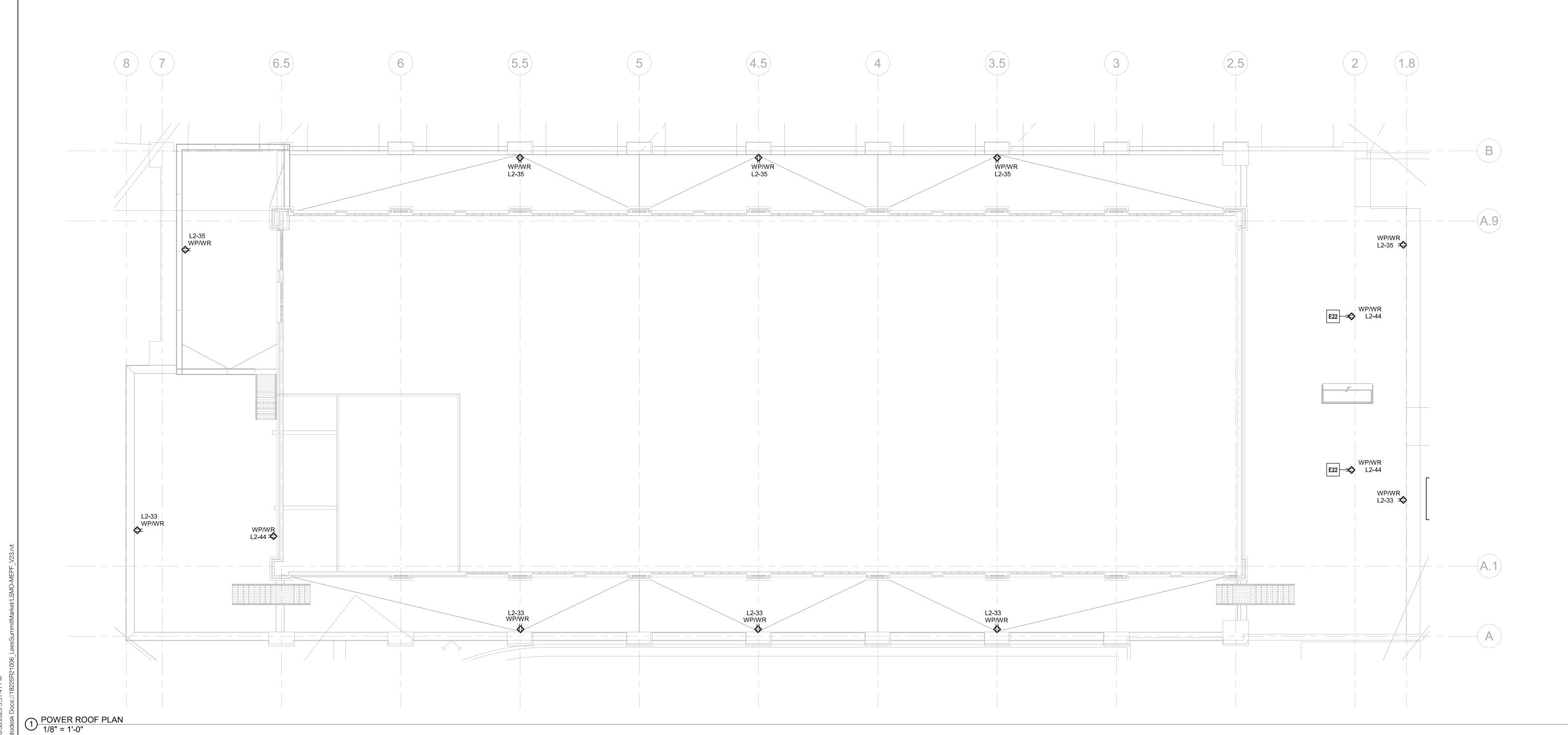
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POWER PLAN

E-201



E22 RECEPTACLE IS INTEGRAL TO PACKAGED RTU EQUIPMENT. PROVIDE 120V BRANCH CIRCUIT AS INDICATED.



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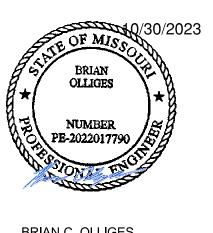
POWER ROOF PLAN

E-202

Z



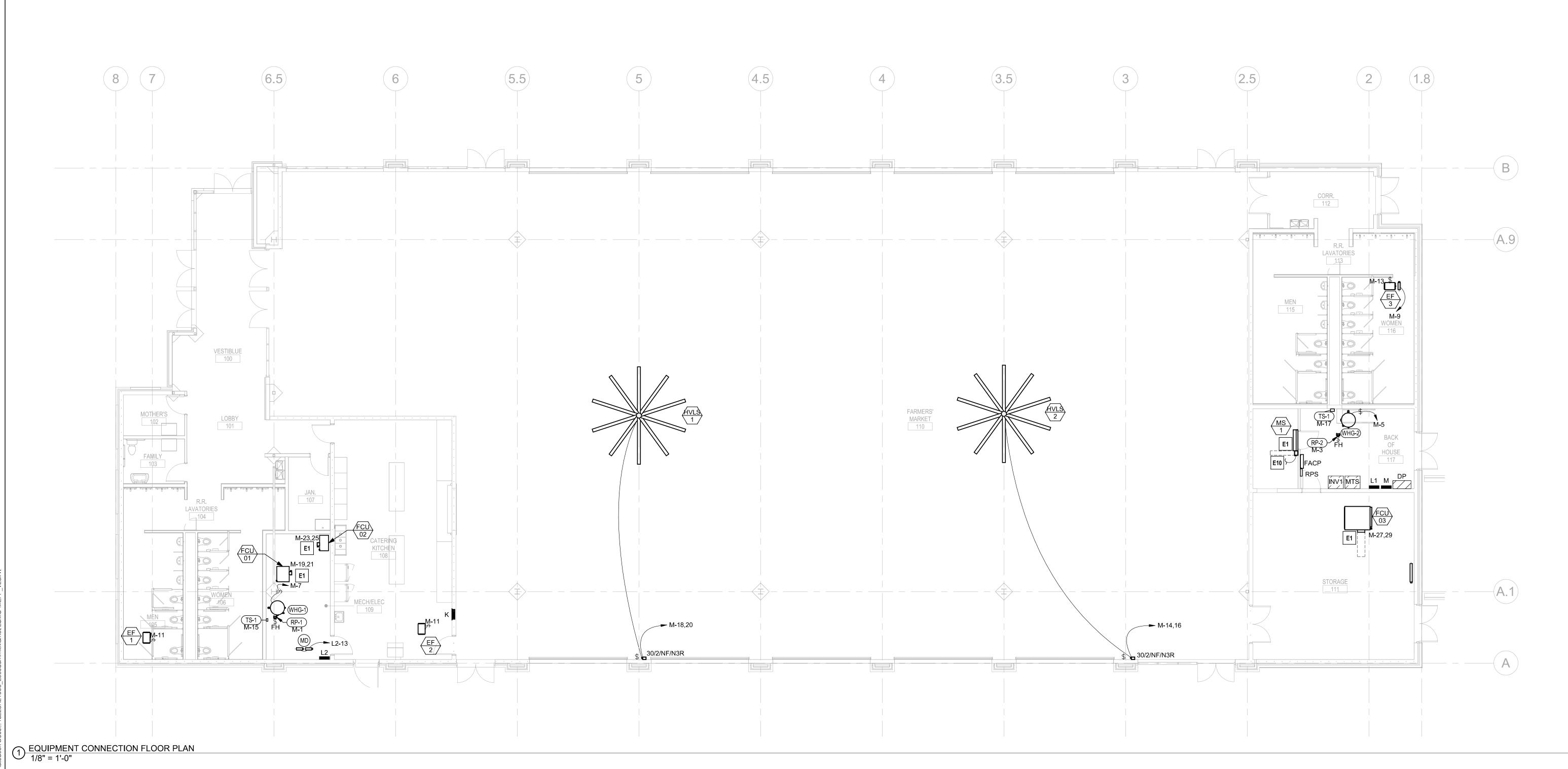




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# ELECTRICAL PLAN NOTES:

E1 DISCONNECT PROVIDED WITH EQUIPMENT BY DIVISION 23 CONTRACTOR.
E10 POWERED FROM OUTDOOR UNIT. PROVIDE (2)#10AWG, (1)#10 GND IN 3/4"C. TO CONDENSING UNIT LOCATED ON ROOF.



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SUMMIT

EQUIPMENT CONNECTION PLAN

E-301

Z

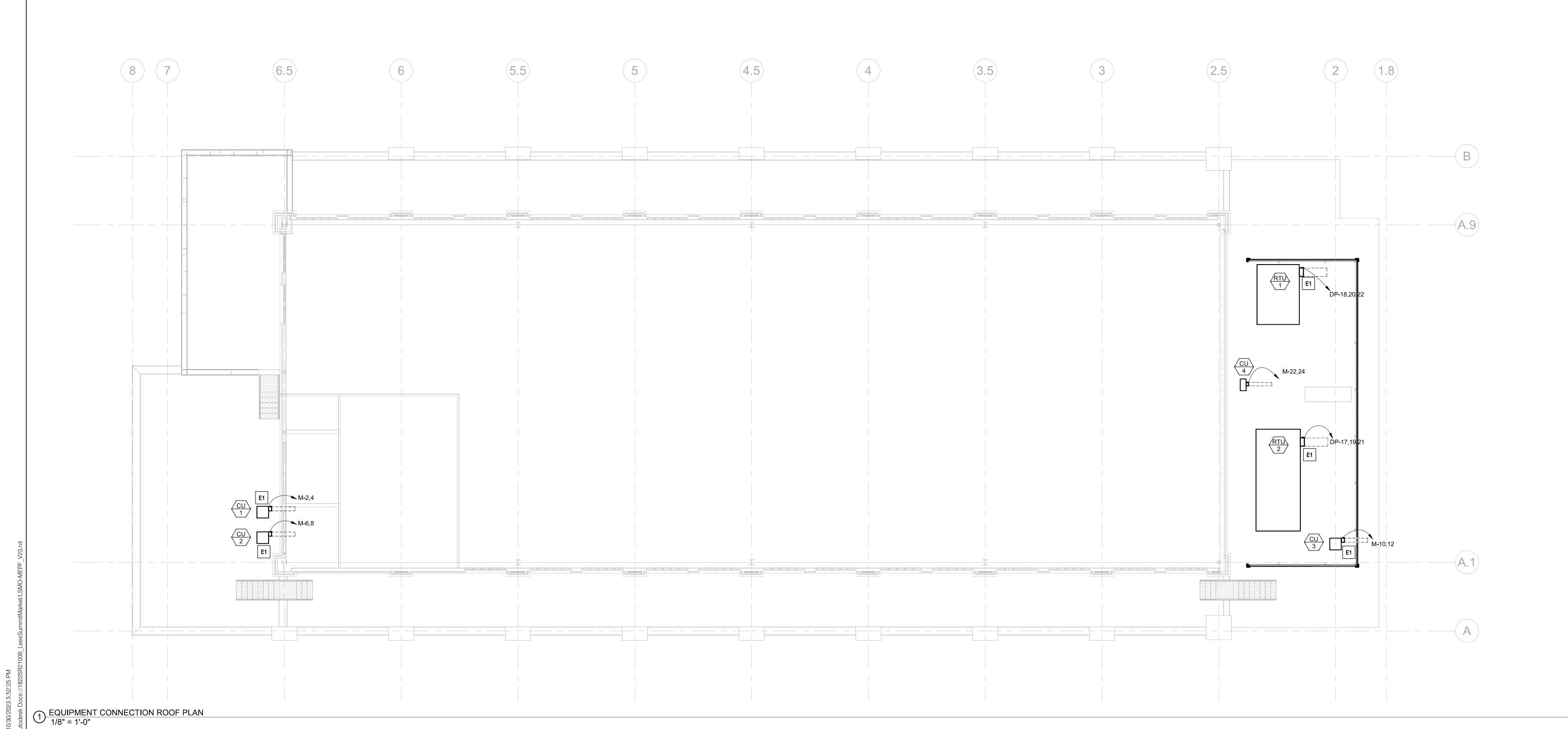
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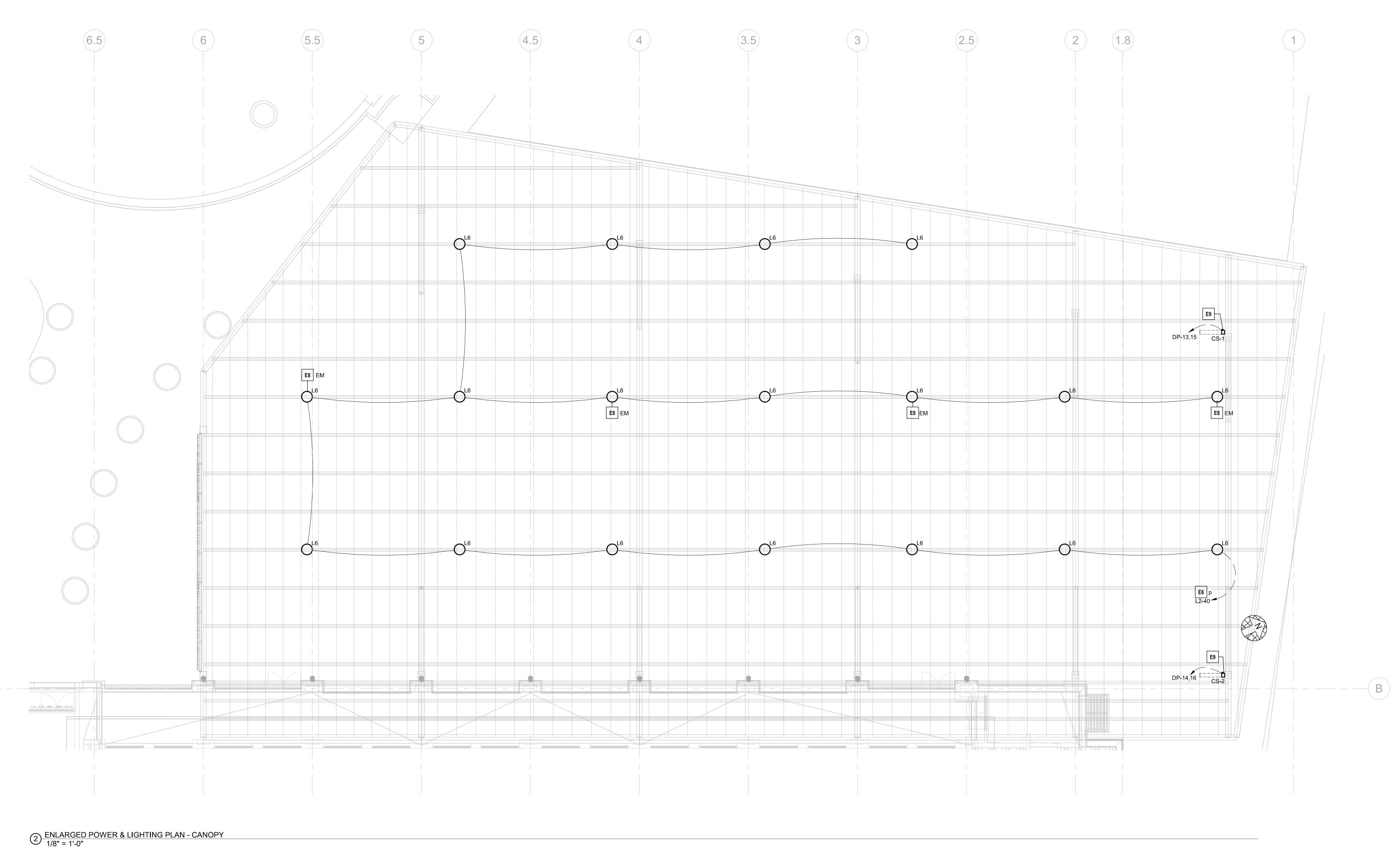
EQUIPMENT CONNECTION ROOF PLAN

E-302

Z

ENLARGED PLANS

E-400



**ELECTRICAL PLAN NOTES:** 

E6 CONTROL VIA REMOTELY LOCATED ROOM CONTROLLER ON ZONE INDICATED. PROVIDE EMERGENCY BRANCH CIRCUIT FROM LIGHTING INV1. PROVIDE AUTOMATIC LOAD CONTROL RELAY AS SPECIFIED WITH IOTA LIGHTING INVERTER. RE:

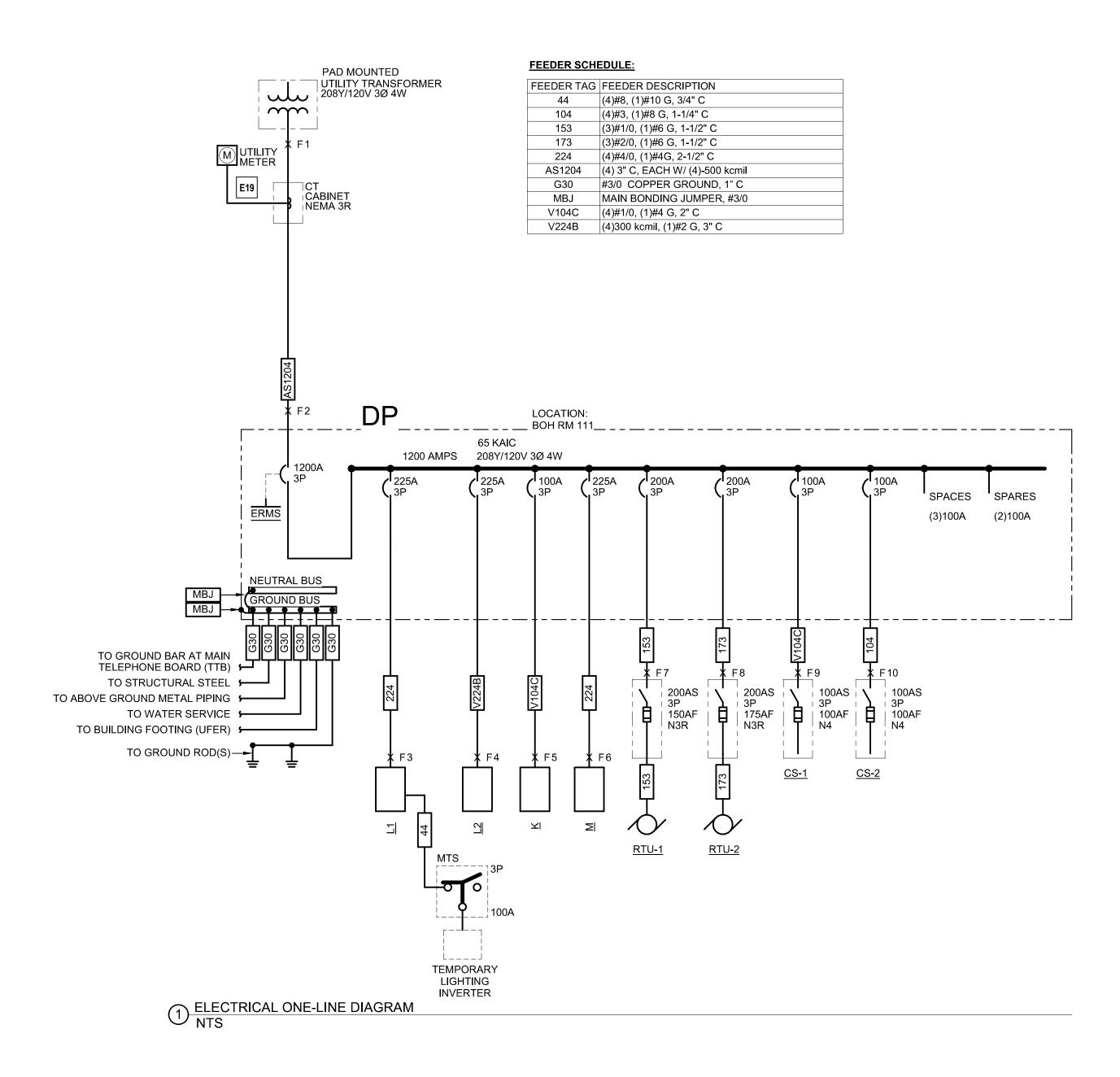
- 01/E-500 E8 PROVIDE EMERGENCY BRANCH CIRCUIT FROM LIGHTING INV1. PROVIDE AUTOMATIC LOAD CONTROL RELAY AS SPECIFIED WITH IOTA LIGHTING INVERTER. REFERENCE 01/E-500.
- E9 PROVIDE STAINLESS STEEL NEMA-3R DISCONNECT WITH CAMLOCK CONNECTIONS FOR STAGE POWER. MOUNT TO CANOPY COLUMN FACING TEMPORARY STAGE LOCATION. PROVIDE PADLOCK ON HANDLE.

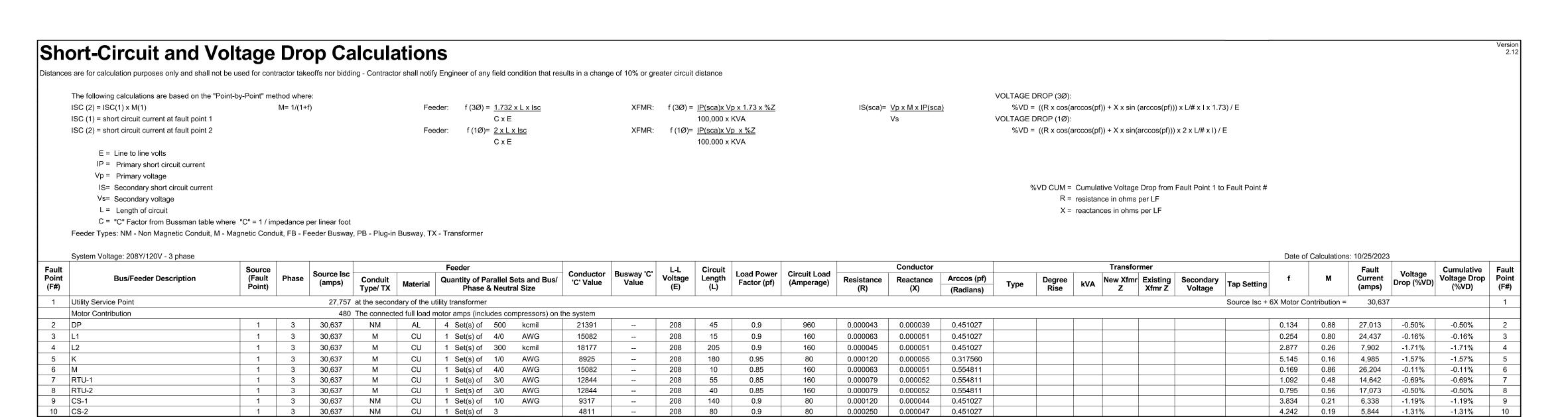
ONE-LINE DIAGRAM

**BUILDING LOAD SUMMARY (DP)** BUILDING OCCUPANCY: CLUB SERVICE VOLTAGE: BUILDING SQUARE FOOTAGE: 10950 208Y/120 V CONNECTED DEMAND NEC DEMAND LOAD FACTOR 0 VA EXISTING LOAD (E) 0 VA 100% 109753 VA 100% COOLING (C) 109753 VA 0 VA 0 VA HEATING (H) 0% 39310 VA LIGHTING (L) (PER NEC-220) 31448 VA 125% RECEPTACLES (R) 56% 49790 VA MOTORS (M) 3995 VA 3995 VA 100% SUPPLEMENTAL HEAT (U) 500 VA 100% 500 VA MISC EQUIP (Z) 60516 VA 100% 60516 VA 100% REFRIGERATION (F) SIGNAGE (S) 0 VA 125% KITCHEN (K) 0 VA 100% 0 VA LARGEST MOTOR (7.5HP) 9115 VA 125% 11394 VA SHOW WINDOW (W) 0 VA 125% 0 VA TRACK LIGHTING 0 VA 100% 0 VA TOTAL LOAD 304907 275258 TOTAL AMPACITY SERVICE AMPACITY 1200 SPARE CAPACITY 436

**ELECTRICAL PLAN NOTES:** 

E19 PROVIDE METER AND CT CABINET PER UTILITY COMPANY STANDARDS.





- 1. THE INFORMATION SHOWN IN THE SHORT-CIRCUIT AND VOLTAGE DROP CALCULATIONS SCHEDULE IS SHOWN FOR CALCULATION PURPOSES ONLY. CONTRACTOR SHALL NOT USE THE CONDUIT TYPES, CONDUCTOR TYPES, SIZES, QUANTITIES OR LENGTHS FOR TAKEOFFS OR BIDDING PURPOSES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THIS SCHEDULE AND OTHER PORTIONS OF THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL NOTIFY ENGINEER OF AS-BUILT CONDITIONS THAT CONSTITUTE A CHANGE FROM WHAT IS SHOWN BELOW; THIS INCLUDES CONDUCTOR LENGTHS DIFFERING BY MORE THAN 10%.
- 2. REFER TO THE SHORT-CIRCUIT AND VOLTAGE DROP CALCULATIONS TABLE ON THIS SHEET. AVAILABLE FAULT CURRENT INFORMATION IS LISTED UNDER THE "FAULT CURRENT" COLUMN. VOLTAGE DROP VALUES ARE LISTED UNDER THE "CUMULATIVE VOLTAGE DROP" COLUMN. THE AIC/SCCR RATING OF THE EQUIPMENT SHALL NOT BE LESS THAN THE AVAILABLE 3-PHASE SYMMETRICAL FAULT CURRENT. ALL SERIES RATED EQUIPMENT SHALL BE PROPERLY LISTED AND LABELED PER CODE.
- 3. FEEDER NUMBER DESIGNATIONS PRECEDED BY "V" INDICATE THAT THE CONDUCTORS ARE UP-SIZED DUE TO VOLT-DROP CONSIDERATIONS. PROVIDE LUG ADAPTERS AS NEEDED IN ORDER TO PROPERLY LAND CONDUCTORS AT TERMINATION(S).
- 4. FEEDER SIZES ARE BASED ON COPPER (CU) THHN/THWN-2 INSULATION, UNLESS NOTED OTHERWISE. CONDUIT SIZES SHOWN ARE APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC AND RMC; ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES, NUMBER DESIGNATIONS PRECEDED BY "A" INDICATE THAT THE SIZE IS BASED ON ALUMINUM (AL) WIRE. AL CONDUCTOR SIZES ARE BASED ON XHHW-2 INSULATION, UNLESS NOTED OTHERWISE, AL WIRE MAY BE SUBSTITUTED FOR CU FEEDERS AS ALLOWED BY CODE, SPECIFICATIONS AND OWNER, UNLESS NOTED OTHERWISE. AT CONTRACTOR'S OPTION, CU WIRE MAY BE SUBSTITUTED FOR AL, UNLESS NOTED OTHERWISE. ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATIONS, UNLESS NOTED OTHERWISE. FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 5. BRANCH CIRCUIT SIZES ARE BASED ON COPPER (CU) THHN/THWN-2 INSULATION, UNLESS NOTED OTHERWISE. CONDUIT SIZES SHOWN ARE APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC AND RMC; ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES. ALL CONDUCTOR SIZES ARE BASED ON 60 DEG C RATED TERMINATIONS, UNLESS NOTED OTHERWISE, FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 6. INSTALL FEEDERS OVERHEAD AS HIGH AS PRACTICABLE AND ORTHOGONALLY ALONG BUILDING STRUCTURE, UNLESS NOTED OTHERWISE. COORDINATE FINAL ROUTING WITH OTHER TRADES.
- 7. CIRCUIT BREAKERS RATED 1200A OR HIGHER SHALL HAVE APPROPRIATE DOCUMENTATION AND METHOD TO REDUCE CLEARING TIME IN ORDER TO REDUCE ARC FLASH ENERGY PER CODE. PROVIDE ELECTRONIC TRIP UNIT WITH INSTANTANEOUS TRIP AND ENERGY-REDUCING MAINTENANCE SWITCH WITH LOCAL STATUS INDICATOR FOR COMPLIANCE. PROVIDE PROVISIONS TO INTERFACE WITH OWNER ALARM/MONITORING SYSTEM TO INDICATE MAINTENANCE SWITCH STATUS.
- 8. PROVIDE A PERMANENT LABEL ON FRONT OF EQUIPMENT ENCLOSURE; REFER TO SPECIFICATIONS FOR LABEL REQUIREMENTS. LABEL SHALL READ AS FOLLOWS (INCLUDE RESPECTIVE NAMES IN BLANKS):
- **ELECTRICAL UTILITY CONTACT NOTE:** UTILITY COMPANY: EVERGY
- UTILITY CONTACT: RON DEJARNETTE EMAIL: RON.DEJARNETTE@EVERGY.COM

FAULT CURRENT GENERAL NOTE (ESTIMATED VALUE): THE MAXIMUM AVAILABLE 3-PHASE SYMMETRICAL FAULT CURRENT VALUE AT THE UTILITY TRANSFORMER SECONDARY/POINT OF SERVICE COULD NOT BE DETERMINED AT THE TIME OF THIS SUBMITTAL. THE ESTIMATED WORST CASE VALUE OF 27,757A IS BASED ON AN INFINITE BUS CALCULATION AT THE UTILITY TRANSFORMER. CONTRACTOR SHALL VERIFY ACTUAL AVAILABLE FAULT CURRENT VALUE WITH UTILITY. NOTIFY ENGINEER IF ACTUAL VALUE EXCEEDS ESTIMATED CALCULATED VALUE. ESTIMATED DESIGN VALUE IS BASED ON THE FOLLOWING:

UTILITY TRANSFORMER SECONDARY VOLTAGE: 208Y/120V, 3Ø, 4W UTILITY TRANSFORMER SIZE: 500KVA, Z=5.0%

OVERCURRENT PROTECTIVE DEVICE **COORDINATION STUDY GENERAL NOTE:** 

- 1. CONTRACTOR SHALL PROVIDE AN OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY TO DETERMINE THE CORRECT SETTINGS FOR THE ADJUSTABLE TRIP CIRCUIT BREAKERS, TO ENSURE SELECTIVE COORDINATION AND TO DOCUMENT ARC-FLASH HAZARDS. CODE REQUIRED EMERGENCY AND LEGALLY REQUIRED STANDBY SYSTEMS SHALL BE SELECTIVELY COORDINATED WITH ALL SUPPLY-SIDE OVERCURRENT PROTECTIVE DEVICES (APPLIES TO BOTH THE NORMAL AND EMERGENCY POWER SOURCES). PROVIDE ALL NECESSARY AS-BUILT INFORMATION REQUIRED FOR COMPLETION OF THE STUDY TO THE ENGINEER DOING THE STUDY. PROVIDE SUBMITTALS INDICATED WITHIN THE SPECIFICATIONS TO OWNER AND ARCHITECT/ENGINEER TO CONFIRM STUDY HAS BEEN COMPLETED. CONTRACTOR SHALL INCLUDE THE COST FOR THIS WORK IN THEIR BID. REFER TO
- SPECIFICATIONS FOR ADDITIONAL INFORMATION. 2. THE OWNER SHALL FURNISH INDICATED PORTIONS OF THE ELECTRICAL DISTRIBUTION EQUIPMENT TO THE CONTRACTOR FOR INSTALLATION. THE OWNER WILL ALSO PROVIDE THE OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY TO THE CONTRACTOR. THE OWNER FURNISHED COORDINATION STUDY SHALL INCLUDE THE CORRECT SETTINGS FOR THE ADJUSTABLE TRIP CIRCUIT BREAKERS, ENSURE SELECTIVE COORDINATION AND DOCUMENT ARC-FLASH HAZARDS. CODE REQUIRED EMERGENCY AND LEGALLY REQUIRED STANDBY SYSTEMS SHALL BE SELECTIVELY COORDINATED WITH ALL SUPPLY-SIDE OVERCURRENT PROTECTIVE DEVICES, (APPLIES TO BOTH THE NORMAL AND EMERGENCY POWER SOURCES). THE CONTRACTOR SHALL PROVIDE NECESSARY AS-BUILT INFORMATION TO COMPLETE
- ONE-LINE DIAGRAM SUPPLEMENTAL SPECIFICATIONS: 1. GROUNDING ELECTRODE SYSTEM SHALL BE PER LOCAL REQUIREMENTS AND SHALL NOT BE LESS STRINGENT THAN THAT SPECIFIED IN THE CONSTRUCTION DOCUMENTS.
- 2. PROVIDE PROPERLY SIZED LUGS FOR ALL EQUIPMENT, CIRCUIT BREAKERS, AND OTHER ELECTRICAL DEVICES TO ACCOMMODATE INSTALLED CONDUCTORS. A LARGER FRAME, OVERSIZED LUGS OR NON-STANDARD PRODUCT MAY BE REQUIRED IN SOME INSTANCES. UTILIZE PIN ADAPTERS ONLY IF NECESSARY AND ONLY AS ALLOWED BY MANUFACTURER AND AHJ.
- 3. PROVIDE ANY AVAILABLE SPACE IN SWITCHBOARDS/PANELBOARDS WITH BUSSING.
- 4. PROVIDE (4) EMPTY 1" CONDUITS WITH PULL STRINGS FROM EACH RECESSED PANELBOARD UP TO ACCESSIBLE CEILING SPACE. CAP AND LABEL CONDUITS FOR FUTURE USE.
- 5. PROVIDE TYPED FINAL CIRCUIT DIRECTORY FOR ALL PANELBOARDS TO REFLECT ACTUAL AS-BUILT CONDITIONS, COORDINATE FINAL ROOM NAMES, NUMBERS AND DESCRIPTIONS WITH OWNER PRIOR TO COMPLETION. CIRCUIT DESCRIPTIONS SHALL BE PER CODE AND SHALL BE DISTINGUISHABLE FROM ALL OTHERS.

PANELBOARD:	: M (NE	EW)						FAULT C AIC RAT	ED:	FULLY R	O ONE-LIN ATED % MINIMUM		AM					EQUIPMENT GI	ROUND BUS
MAIN SIZE/TYPE: MLO								SERVES		MECHAN									
VOLTS/PHASE: 208Y/120	) \/ 3D//\\/							MOUNTI		SURFAC									
SUPPLIED BY: DP	) V 3F/4VV							LOCATIO		MECH/EI									
SUPPLIED BY. DP								LOCATIC	JIN.	MECH/EI	LEC							LINE CIDE LUCC. M	IECHANICAL
																		LINE-SIDE LUGS: M	IECHANICAL
CKT DESCRIPTION			LOAD	NOTES		BKR P		ASE		IASE	PHA					NOTES	LOAD	DESCRIPTION	CKT
NO.			TYPE		SIZE			4		В	С		-	AMP			TYPE		NO.
1 RP-1			Z		12	15 1	100	2392	400	0000	7		2	30	10	VD	C	CU-1	2
3 RP-2 5 WHG-2			Z Z U		12	15 1			100	2392	700	1070	2	20	10	VD		CLLO	4
5 WHG-2 7 WHG-1			ZU		12 12	20 1 20 1	700	1872	1		700	1872	2	30	10	۷D	C	CU-2	8
9 MOTORIZED DAM	MPFRS - 11	6	Z		12	20 1	100	10/2	50	1456	1		2	25	10	VD	Z	CU-3	10
11 EF-1 & EF-2	VII EIRO II		Z		12	15 1				1700	744	1456	<b> </b>	20	10	VD	-	00 0	12
13 EF-3			Z		12	15 1	372	1152	]		, , , ,		2	20	12		М	B.A.F 1	14
15 TS-1 FOH			Z		12	20 1			100	1152	]				-				16
17 TS-1 BOH			М		12	20 1					100	1152	2	20	12		М	B.A.F 2	18
19 FCU-1			М	VD	10	20 2	832	1152	]										20
21									832	1560	1		2	20	10		С	CU-4	22
23 FCU-2			M	VD	10	20 2			7		1400	1560							24
25							1400	0			7		1					EQUIPPED SPACE	26
27 FCU-3			M		12	20 2			728	0	700		1					EQUIPPED SPACE	28
29						1		0	1		728	0	1					EQUIPPED SPACE	30
31 EQUIPPED SPAC 33 EQUIPPED SPAC						1	0	0	0	0	1		1					EQUIPPED SPACE EQUIPPED SPACE	32
35 EQUIPPED SPAC						1				U	0	0	1					EQUIPPED SPACE	36
37 EQUIPPED SPAC						1	0	0	1			- 0	1					EQUIPPED SPACE	38
39 EQUIPPED SPAC						1		0	0	0	1		1					EQUIPPED SPACE	40
41 EQUIPPED SPAC						1					0	0	1					EQUIPPED SPACE	42
		I		TOTALI		\	007	2.1/4	00-	70.1/4	0740		+ '						
				TOTAL I	JOAD (	(VA):	997	3 VA	837	70 VA	9712	VA	-						
				TOTAL	AMPS:		85	5 A	7	0 A	83	Α							
LOAD TYPE		CONNECTED LOAD		MAND CTOR	NEC	DEMAND	PANELI	BOARD NO	DTES									PANELBOARD TOTALS	
EXISTING LOAD (E)		0 VA		00%		0 VA												TOTAL CONNECTED LOAD	20056.\/A
COOLING (C)		11648 VA		00%		648 VA												TOTAL CONNECTED LOAD	28056 VA
HEATING (H)		0 VA		0%		0 VA												TOTAL NEC LOAD	28759 VA
LIGHTING (L)		0 VA		25%		0 VA												TOTAL CONNECTED CURRENT	78 A
RECEPTACLES (R)		0 VA		0%		0 VA													
MOTORS (M)	(1.1)	7820 VA		00%		320 VA 00 VA	_											TOTAL NEC DEMAND CURRENT	80 A
SUPPLEMENTAL HEAT ( MISC EQUIP (Z)	(U)	200 VA 5578 VA		00%		00 VA 578 VA													
REFRIGERATION (F)		0 VA		00%		0 VA													
SIGNAGE (S)		0 VA		25%		0 VA													
KITCHEN (K)		0 VA		00%		0 VA													
LARGEST MOTOR (2HP)	)	2810 VA		25%		513 VA													
SHOW WINDOW (W)		0 VA	1	25%		0 VA													
TRACK LIGHTING		0 VA	1	00%		0 VA													

PANELBOARD: K (I	NEW)						FAULT C AIC RATI		REFER T	O ONE-LINE DIAGRA	M					EQUIPMENT GRO	OUND BUS
BUS AMPS: 100A MAIN SIZE/TYPE: MLO VOLTS/PHASE: 208Y/120 V 3P/4	W						AIC RATI SERVES MOUNTII	NG: : NG:	FCA +10 CATERIN RECESS	% MINIMUM IG KITCHEN ED							
SUPPLIED BY: DP							LOCATIO	PN:	CATERIN	IG						LINE-SIDE LUGS: ME	CHANICAL
CKT DESCRIPTION		LOAD	NOTES	WIRE	BKR	Р	PHASE	PHA	ASE	PHASE	РВ	KR	WIRE	NOTES	LOAD		CKT
NO.		TYPE		SIZE			A		В	C			SIZE		TYPE		NO.
1 RCPT - CATERING KITCI	HEN - 4	R		12	20	1	1500 1500				1 :	20	12	GF	R	RCPT - WARMING CAB - 3	2
3 RCPT - CATERING KITCI		R		12		1		1500	1500			20	12	GF	R	RCPT - WARMING CAB 4	4
5 RCPT - CATERING KITCI		R		12		1	Ţ	1		1500 180		20	12		R	RCPT - CATERING KITCHEN	6
7 RCPT - CATERING KITCI		R		12		_	1500 1500			1		20	12		R	RCPT - CATERING KITCHEN - 8	8
9 RCPT - CATERING KITCI		R		12		1		1500	1500			20	12		R	RCPT - CATERING KITCHEN - 7	10
11 RCPT - CATERING KITCH		R		12		1	4500 4500	1		1000		20	12		R	RCPT - CATERING KITCHEN - 3	12
13 RCPT - CATERING KITCI	HEN - 2	R	05	12	20		1500 1500	4500	0400			20	12	05	R	RCPT - CATERING KITCHEN - 1	14
15 RCPT - ICE MAKER 17 RCPT - FREEZER - 2		R R	GF GF	12 12		1		1500	2400	1500 2400	2 :	30	12	GF	R	RCPT - COFFEE VENDOR	16
17   RCPT - FREEZER - 2 19   RCPT - FRIDGE - 1		R	GF GF	12		•	1500 1500	]			1 :	20	12	GF	Ь	WATER FOUNTAIN RM 101	18 20
21 RCPT - WARMING CAB.	_ 1	R	GF	12	20		1300 1300	1500	1500			20	12	GF	R	WATER FOUNTAIN RM 112	22
23 RCPT - WARMING CAB.		R	GF	12		1		1300	1300			20	12	OI .	11	SPARE	24
25 EQUIPPED SPACE		1	<u> </u>	'-		1	0 0				1					EQUIPPED SPACE	26
27 EQUIPPED SPACE						1	0 0	0	0		1					EQUIPPED SPACE	28
29 EQUIPPED SPACE						1				0 0	1					EQUIPPED SPACE	30
			TOTAL	1040	3.44.		40000 \ / 4	4000	20.174	0040344	-						
			TOTAL	LOAD (	(VA):	_	12000 VA	1290	JU VA	8940 VA							
			TOTAL	AMPS:			104 A	11	1 A	75 A							
LOAD TYPE	CONNECTED LOAD		EMAND ACTOR	NEC	DEMAI	ND	PANELBOARD NO	OTES								PANELBOARD TOTALS	
EXISTING LOAD (E)	0 VA		100%		O VA											TOTAL CONNECTED LOAD	33840 VA
COOLING (C)	0 VA		0%		O VA												
HEATING (H)	0 VA		100%		0 VA											TOTAL NEC LOAD	21920 VA
LIGHTING (L)	0 VA		125%		0 VA											TOTAL CONNECTED CURRENT	94 A
RECEPTACLES (R)	33840 VA		65%		920 VA												
MOTORS (M)	0 VA		100% 100%		0 VA 0 VA											TOTAL NEC DEMAND CURRENT	61 A
SUPPLEMENTAL HEAT (U) MISC EQUIP (Z)	0 VA 0 VA		100%		0 VA 0 VA												
REFRIGERATION (F)	0 VA		100%		0 VA 0 VA												
SIGNAGE (S)	0 VA		125%		0 VA												
KITCHEN (K)	0 VA		100%		0 VA												
LARGEST MOTOR	0 VA		125%		0 VA												
SHOW WINDOW (W)	0 VA		125%		0 VA												
TRACK LIGHTING																	
	0 VA		100%		0 VA												

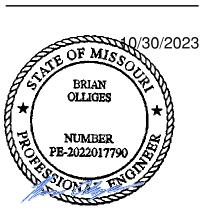
BUS A MAIN VOLT	NELBOARD: L1 (N AMPS: 225A SIZE/TYPE: MLO S/PHASE: 208Y/120 V 3P/4W LIED BY: DP	IEW)				FAULT C AIC RAT AIC RAT SERVES MOUNTI LOCATIO	ING: : NG:	FULLY R FCA +10	ATED % MINIMUI ARMER M	М	RAM				EQUIPMENT GI	
	T														LINE-SIDE LUGS: M	IECHANICA
CKT NO.	DESCRIPTION		AD NOTES		BKR P AMP	PHASE A		ASE B		ASE C		WIRE SIZE	NOTES	LOAD TYPE		CK <sup>-</sup> NO
1	RCPT - FARMER'S MARKET		₹	12	20 1	1500 1596			1		1 20	12		1	LTG RMS 111-118	2
3	RCPT - TV WALL		7	12	20 1	l l	1920	1500	]		1 20	12	FA	Z	FACP	4
5	RCPT - STORAGE	F	२	12	20 1			1	1080	200	1 20	12		Z	DOOR ACCESS BOH	6
7	RCPT - TV RM 110 -3	7	7	12	20 1	1920 960					1 20	12	FA	Z	FA-RPS	8
9	RCPT - FARMER'S MARKET		₹	12	20 1		1500	180			1 20	12		R	RCPT - CORR. 112	10
11	RCPT - FARMER'S MARKET		₹	12	20 1		_		1500	360	1 20	12		R	RCPT - IT GENERAL	12
13	RCPT - FARMER'S MARKET		₹	12	20 1	1500 2500			-		2 40	8		L	INV1	14
15	RCPT - FARMER'S MARKET		₹	12	20 1		1500	2500			$\bot$			<u> </u>		16
17	RCPT - FARMER'S MARKET		₹	12	20 1	4500	٦		1500	360	1 20	12		R	RCPT - EXTERIOR - 3	18
19	RCPT - FARMER'S MARKET		2	12	20 1	1500 0			7		1 20				SPARE	20
21	RCPT - FARMER'S MARKET		₹	12	20 1		1500	0			1 20				SPARE	22
23	RCPT - FARMER'S MARKET		₹	12	20 1		7		1500	0	1 20				SPARE	24
25	RCPT - FARMER'S MARKET		₹	12	20 1	1500 0	4500		7		1 20				SPARE	20
27	RCPT - FARMER'S MARKET		₹	12	20 1		1500	0	4500		1 20				SPARE	28
29	RCPT - FARMER'S MARKET		2	12	20 1	4500	٦		1500	0	1 20				SPARE	3
31	RCPT - FARMER'S MARKET		₹	12	20 1	1500 0	1000		7		1 20				SPARE	3
33	RCPT - TV RM 110 -2		7	12	20 1		1920	0	1500		1 20				SPARE	3
35 37	RCPT - FARMER'S MARKET		र २	12	20 1	1500 0	٦		1500	0	1 20				SPARE SPARE	30
39	RCPT - FARMER'S MARKET		₹	12 12	20 1	1500 0	1500	0	7		1 20				SPARE	
41	RCPT - FARMER'S MARKET		3	12	20 1		1300	U	1500	0	1 20				SPARE	42
43	RCPT - FARMER'S MARKET		2	12	20 1	1500 0	7		1300		1 20				SPARE	44
45	RCPT - FARMER'S MARKET		₹	12	20 1	1500	1500	0	1		1 20				SPARE	40
47	RCPT - R.R. LAVATORIES 1		₹	12	20 1		1000		180	0	1 20				SPARE	4
49	RCPT - BACK OF HOUSE		₹	12	20 1	360 0	1		100		1 20				SPARE	5
51	RCPT - IT RACK RM 118 - 1		7	12	20 1	000 0	1920	0	1		1 20				SPARE	5:
53	RCPT - IT RACK RM 118 - 2		- Z	12	20 1		1020		1920	0	1 20				SPARE	5.
55	EQUIPPED SPACE		_		1	0 0	1		.020		1				EQUIPPED SPACE	5
	EQUIPPED SPACE				1		0	0	1		1				EQUIPPED SPACE	5
59	EQUIPPED SPACE				1				0	0	11				EQUIPPED SPACE	6
					() (4)	47005.14	1004	10 ) (4	10.10	-						
				LOAD	` ,	17835 VA		10 VA		00 VA						
			TOTAL	AMPS		155 A	16	4 A	10	9 A						
LOAD	TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC	DEMAND	PANELBOARD NO	OTES								PANELBOARD TOTALS	
	ING LOAD (E)	0 VA	100% 0%		0 VA 0 VA										TOTAL CONNECTED LOAD	49876 V
	LING (C) ING (H)	0 VA 0 VA	100%		0 VA	+									TOTAL NEC LOAD	41011 V
	TING (L)	6581 VA	125%		226 VA	+									TOTAL NEC LOAD	41011 V
	PTACLES (R)	31020 VA	66%		)510 VA	+									TOTAL CONNECTED CURRENT	138 A
	DRS (M)	0 VA	100%		0 VA	+									TOTAL NEC DEMAND CURRENT	114 A
	LEMENTAL HEAT (U)	0 VA	100%		0 VA	+									TOTAL NEG DEWIAND GURRENT	114 A
	EQUIP (Z)	12275 VA	100%		2275 VA	$\dashv$										
	IGERATION (F)	0 VA	100%		0 VA	+										
	AGE (S)	0 VA	125%		0 VA	+										
	HEN (K)	0 VA	100%		0 VA	+										
	EST MOTOR	0 VA	125%		0 VA	+										

BUS AN MAIN S VOLTS	MPS: 225A BIZE/TYPE: MLO /PHASE: 208Y/120 V 3P/4W IED BY: DP	,						AIC RATE AIC RATE SERVES: MOUNTIN	NG: : NG:		% MINIMUM ARMER MA							LINE-SIDE LUGS: M	ECHANICAL
CKT NO.	DESCRIPTION		LOAD TYPE	NOTES		BKR P AMP	PH/			ASE 3	PHA C			3KR Y		NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
	RCPT - FARMER'S MARKET		R		12	20 1	1500	1596						20	12			LTG RMS 111-118	2
3	RCPT - TV WALL		Z		12	20 1			1920	1500	]		1	20	12	FA	Z	FACP	4
	RCPT - STORAGE		R		12	20 1			•		1080	200		20	12			DOOR ACCESS BOH	6
	RCPT - TV RM 110 -3		Z		12	20 1	1920	960			7			20	12	FA		FA-RPS	8
	RCPT - FARMER'S MARKET		R		12	20 1			1500	180	4500	000		20	12			RCPT - CORR. 112	10
	RCPT - FARMER'S MARKET		R		12	20 1	1500	2500	1		1500	360		20	12 8			RCPT - IT GENERAL	12
	RCPT - FARMER'S MARKET		R R		12 12	20 1	1500	2500	1500	2500	7			40	8			INV1	14 16
	RCPT - FARMER'S MARKET		R		12	20 1			1300	2500	1500	360	1	20	12		R	RCPT - EXTERIOR - 3	18
	RCPT - FARMER'S MARKET		R		12	20 1	1500	0			1500	300		20	12			SPARE	20
	RCPT - FARMER'S MARKET		R		12	20 1	1000	<u> </u>	1500	0	1			20				SPARE	22
	RCPT - FARMER'S MARKET		R		12	20 1					1500	0		20				SPARE	24
	RCPT - FARMER'S MARKET		R		12	20 1	1500	0						20				SPARE	26
	RCPT - FARMER'S MARKET	FLOOR - 4	R		12	20 1			1500	0	]			20				SPARE	28
	RCPT - FARMER'S MARKET		R		12	20 1					1500	0		20				SPARE	30
31	RCPT - FARMER'S MARKET	FLOOR - 6	R		12	20 1	1500	0					1	20				SPARE	32
33	RCPT - TV RM 110 -2		Z		12	20 1			1920	0	]		1	20				SPARE	34
35	RCPT - FARMER'S MARKET	<b>-</b> 9	R		12	20 1					1500	0	1	20				SPARE	36
37	RCPT - FARMER'S MARKET	<del>-</del> 10	R		12	20 1	1500	0					1	20				SPARE	38
	RCPT - FARMER'S MARKET		R		12	20 1			1500	0				20				SPARE	40
	RCPT - FARMER'S MARKET		R		12	20 1			,		1500	0		20				SPARE	42
	RCPT - FARMER'S MARKET		R		12	20 1	1500	0			-			20				SPARE	44
	RCPT - FARMER'S MARKET		R		12	20 1			1500	0				20				SPARE	46
	RCPT - R.R. LAVATORIES 1	13	R		12	20 1			i		180	0		20				SPARE	48
	RCPT - BACK OF HOUSE		R		12	20 1	360	0	4000		7			20				SPARE	50
	RCPT - IT RACK RM 118 - 1		Z		12	20 1			1920	0	4000			20				SPARE	52
	RCPT - IT RACK RM 118 - 2		Z		12	20 1			I		1920	0	1	20				SPARE	54
	EQUIPPED SPACE					1 1	0	0			7		1					EQUIPPED SPACE	56
	EQUIPPED SPACE					1			0	0	0		1					EQUIPPED SPACE	58
59	EQUIPPED SPACE					I					0	0	1					EQUIPPED SPACE	60
				TOTAL	LOAD	(VA):	1783	5 VA	1894	AV 0	13100	) VA							
				TOTAL	AMPS:		15	5 A	16	4 A	109	Α							
LOAD	ГҮРЕ	CONNECTED LOAD		EMAND ACTOR	NEC	DEMAND	PANEL	BOARD NO	OTES									PANELBOARD TOTALS	
EXISTI COOLI	NG LOAD (E)	0 VA 0 VA		100% 0%		0 VA 0 VA												TOTAL CONNECTED LOAD	49876 VA
HEATIN		0 VA		100%		0 VA	+											TOTAL NEC LOAD	41011 VA
LIGHTI		6581 VA		125%		226 VA													
	PTACLES (R)	31020 VA		66%		510 VA												TOTAL CONNECTED CURRENT	138 A
МОТОІ		0 VA		100%		0 VA												TOTAL NEC DEMAND CURRENT	114 A
	EMENTAL HEAT (U)	0 VA		100%		0 VA													
MISC E	EQUIP (Z)	12275 VA		100%		275 VA													
	GERATION (F)	0 VA		100%		0 VA													
SIGNA		0 VA		125%		0 VA													
KITCH		0 VA		100%		0 VA													
	ST MOTOR	0 VA		125%		0 VA													
	WINDOW (W)	0 VA		125%		0 VA													
	LIGHTING	0 VA		100%		0 VA													

PAN	ELBOARD: L2 (N	EW)						FAULT C	_	REFER T	O ONE-LINE ATED	DIAGRA	AM					EQUIPMENT G	ROUND BUS
116 4	MPS: 225A							AIC RAT			% MINIMUM								
	SIZE/TYPE: MLO							SERVES	:	FOH & FA	ARMER MAR	KET							
OLTS	S/PHASE: 208Y/120 V 3P/4W							MOUNTI	NG:	SURFAC	E								
UPPL	IED BY: DP							LOCATIO	ON:	MECH/EL	.EC								
					T													LINE-SIDE LUGS: N	/IECHANICAI
κτ	DESCRIPTION	ı	OAD NOTE	s WIRE	BKR	Р	PH	ASE	PHA	ASF	PHASE	=	PBK	R WIR	E NOTE	S LOA	ס	DESCRIPTION	СКТ
o.			YPE		AMP			A	E	3	C			P SIZ		TYP		2200 M. 110 M	NO.
1	RCPT - FARMER'S MARKET		R	12	20		1500	1920					1 20			Z		Γ - TV RM 110 -1	2
	LTG RM 110 - CKT 1	20	1	12	20		1000	1020	1232	1920			1 20			Z		Γ - TV RM 110 -4	4
5	RCPT - MECH/ELEC GENER	ΣΔΙ	R	12	20				1202	1320	360	180	1 20			R		Γ - FARMER'S MARKET - 21	6
7	RCPT - IT MECH/ELEC (2)	VAL	Z	12	20		1920	1500	7		300		1 20			R		Γ - FARMER'S MARKET - 19	8
9	RCPT - IT MECH/ELEC (2)		Z	12	20		1920	1300	1920	1664		1	2 20			1		· SITE - 7 (FUTURE)	10
11	RCPT - JAN.		R	12	20				1920	1004	180	1664		, 10	"	-		SITE = 7 (LOTOINE)	12
13	MOTORIZED DAMPERS		Z	12	20		100	1664	7		100		2 20	) 10	VD		LTC	· SITE - 6 (FUTURE)	14
							100	1004	180	1664				, 10	00	-	LIG-	SITE = 0 (FUTURE)	
15	RCPT - R.R. LAVATORIES		R	12	20				180	1004	400	1001	0 00	10	\/D		1.70	OITE ( (ELITUDE)	16
17	RCPT - FAMILY		R	12	20		400	4004	7		180	1664	2 20	)   10	VD	L	LIG-	· SITE - 5 (FUTURE)	18
	RCPT - MOTHER'S		R	12	20		180	1664	4000	1000			1 0						20
21	RCPT - TV RM 100		Z	12	20				1920	1920			1 20			L.		· SITE - 4 (FUTURE)	22
23	RCPT - EXTERIOR FOH		R	12	20				7		540	1920	1 20			L		· SITE - 3 (FUTURE)	24
25	RCPT - EXTERIOR - 1		R	12	20		540	1920					1 20			L		· SITE - 2 (FUTURE)	26
27	RCPT - EXTERIOR - 2		R	12	20				1080	1920			1 20			L		· SITE - 1 (FUTURE)	28
29	LTG RMS 100-106		LZ	12		1			_		1696	1920	1 20			R		Γ - SITE - 1 (FUTURE)	30
31	DOOR ACCESS FOH		Z	12	20	1	260	1920					1 20	) 10	VD	R	RCPT	Γ - SITE - 2 (FUTURE)	32
33	RCPT - ROOF HOLIDAY - 2		R	12	20	1			900	1920			1 20	) 10	VD	R	RCPT	Γ - SITE - 3 (FUTURE)	34
35	RCPT - ROOF HOLIDAY - 1		R	12	20	1					900	1920	1 20	) 10	VD	R	RCPT	Γ - SITE - 4 (FUTURE)	36
37	BACK-LIT ENTRANCE SIGN	AGE	L	12	20	1	50	1920			,		1 20	) 10	VD	R	RCPT	Γ - SITE - 5 (FUTURÉ)	38
39	LTG - EXT. WALL SCONCES	S - 1	L	12	20			1	624	1584			1 20	) 10		L		OUTDOOR VENUE CANOPY	40
41	RCPT - FARMER'S MARKET		R	12	20						1500	1860	1 20			R	RCPT	Γ - RM 100-101	42
43	RCPT - FARMER'S MARKET		R	12	20		1500	540	]				1 20			R		Γ - ROOF MAINT.	44
45	RCPT - FARMER'S MARKET		R	12	20				1500	1920			1 20			Z		Γ - TV RM 101	46
47	LTG RM 110 - CKT 2		L	12							1232	0	1 20				SPAR		48
49	LTG RM 110 - CKT 3		ī	12	20		880	0	7				1 20				SPAR		50
51	SPARE				20				0	0		-	1 20				SPAR		52
53	SPARE				20	1					0	0	1 20				SPAR		54
	EQUIPPED SPACE				1 20	1	0	0	7		0		1	<b>,</b>				PPED SPACE	56
57	EQUIPPED SPACE					1		U	0	0		-	1					PPED SPACE	58
	EQUIPPED SPACE					1				U	0		1					PPED SPACE	60
J9	EQUIFFED SFACE					11					-		1				LQUI	FFED SPACE	00
			TOTA	L LOAD	(VA):	_	1997	78 VA	2386	8 VA	17716 V	Ά							
			TOTA	L AMPS:	:		16	9 A	202	2 A	148 A								
DAC	TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC	DEMA	AND	PANEL	BOARD NO	OTES								PAI	NELBOARD TOTALS	
	NG LOAD (E)	0 VA	100%		0 VA													TOTAL CONNECTED LOAD	61562 VA
OOL	NG (C)	0 VA	0%		0 VA													TOTAL CONNECTED LOAD	01302 VA
	NG (H)	0 VA	100%		0 VA													TOTAL NEC LOAD	60441 VA
GHT	NG (L)	24957 VA	125%	31	196 V	Ά											ТО	TAL CONNECTED OURDENT	474.0
	PTACLÉS (R)	24720 VA	70%	17	7360 V	Ά											10	TAL CONNECTED CURRENT	171 A
ОТО	RS (M)	0 VA	100%		0 VA												TOT	TAL NEC DEMAND CURRENT	168 A
JPPI	EMENTAL HEAT (U)	0 VA	100%		0 VA														
ISC I	EQUIP (Z)	11885 VA	100%	11	1885 V	Ά													
	GERATIÓN (F)	0 VA	100%		0 VA														
	GE (S)	0 VA	125%		0 VA		1												
	EN (K)	0 VA	100%		0 VA		1												
	ST MOTOR	0 VA	125%		0 VA		1												
	WINDOW (W)	0 VA	125%		0 VA		1												
		0 VA	100%		0 VA		1												
RACI	( LIGHTING	UVA																	







BRIAN C. OLLIGES LICENSE # PE-2022017790

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TYPE	MANUFACTURER	SERIES / MODEL	- 7/2-				DIMMING	VOLTAGE	INPUT	INPUT	DESCRIPTION
L1	LITHONIA LIGHTING	CLX-L48-5000LM-SEF-WDL-MVOLT-EZ1-35K-80CRI	TYPE LED	80	3500K	5,000	TYPE 0-10V	120/277	WATTS 31.8	VA 35	4' LED FLAT LENS STRIP. PROVIDE ALL MOUNTING ACCESSORIES FOR INTENDED CEILING TYPE INDICATED ON PLANS. COORDINATE INSTALLATION WITH OTHER DISCIPLINES. MH: 10FT AFF
L1E	LITHONIA LIGHTING	CLX-L48-5000LM-SEF-WDL-MVOLT-EZ1-35K-80CRI- E10WLP	LED	80	3500K	5,000	0-10V	120/277	31.8	35	SAME AS TYPE L1, EXCEPT WITH INTEGRAL 1400 LUMENS EMERGENCY BATTERY PACK.
L2	MARK ARCHITECTURAL LIGHTING	MCV504-LCB-MSL4-80CRI-35K-400LMF-ASYM-MIN1- MVOLT-SGW-ZT	LED	80	3500K	400/FT	0-10V	120/277	3.6/FT	4/FT	CONTINOUS RUN LED COVE FIXTURE. MOUNT IN ARCHITECTURAL COVE WITH MARKCOVE EXTRUSION FOR INDIRECT LIGHTING. COORDINATE WITH ARCHITECTURAL COVE CEILING CONSTRUCTION.
L3	LITHONIA LIGHTING	2TL4-40L-FW-A19-EZ1-LP840	LED	80	4000K	3,918	0-10V	120/277	32	35	RECESSED LED TROFFER SUITABLE FOR DAMP LOCATIONS.
L3E	LITHONIA LIGHTING	2TL4-40L-FW-A19-EZ1-LP840-EL14L	LED	80	4000K	3,918	0-10V	120/277	32	35	SAME AS TYPE L3, EXCEPT WITH INTEGRAL 1400 LUMEN EMERGENCY BATTERY PACK.
L4	LITHONIA LIGHTING	LDN6-35/20-L06-WR-LSS-TRW-MVOLT-EZ1	LED	80	3500K	2,006	0-10V	120/277	22.5	25	6" RECESSED LED DOWNLIGHT WITH WHITE OPEN TRIM AND DIFFUSING OPTICAL LENS.
L4E	LITHONIA LIGHTING	LDN6-35/20-L06-WR-LSS-TRW-MVOLT-EZ1-EL	LED	80	3500K	2,006	0-10V	120/277	22.5	25	SAME AS TYPE L4, EXCEPT WITH INTEGRAL 10W EMERGENCY BATTERY PACK.
L5	METEOR	DSM10-80-358-UNV-STV-WD-BLK-ST2-NO-OUT	LED	85	3500K	10,320	0-10V	120/277	80	88	10.7" HIGH BAY LED LUMINARE WITH IP65 OUTDOOR RATING. PENDANT MOUNT TO STRUCTURAL CEILNG. COORDINATE CONDUIT ROUTING STRUCTURAL FRAMING AND ARCHITECT PRIOR TO ROUGH-IN. MH:41FT AFF
L6	METEOR	DSM10-80-358-UNV-STV-WD-BLK-BRK-NO-OUT	LED	85	3500K	10,320	0-10V	120/277	80	88	10.7" HIGH BAY LED LUMINARE WITH IP65 OUTDOOR RATING.SURFACE MOUNT TO CANOPY STRUCTURE FRAMING. COORDINATE CONDUIT ROUTING WITH CANOPY MANUFACTURER AND ARCHITECT PRIOR TO ROUGH-IN. MH: 41FT AFF
L7	LUMENS	MXH2074443	LED A-19	90	3000K	1,000	NON-DIM	120	20	22	LARGE 5"W X 22"H X 6.25" DEEP DECORATIVE EXTERIOR WALL SCONCE. COORDINATE MOUNTED HEIGHT WITH ARACHITECTURAL ELEVATIONS.
L8	BEGA	24 374	LED	80	3000K	1,077	0-10V	120/277	12.3	14	EXTERIOR LED WALL PACK WITH INTEGRAL PHOTOCELL. PROVIDE PRODUCT FINISH AS DIRECTED BY ARCHITECT. MOUNT BOTTOM OF FIXTURE 12" ABOVE DOOR.
L9	MARK ARCHITECTURAL LIGHTING	SL6L-LOP-6'8"-FLP-GB-80CRI-35K-600LMF-MIN1-120- BLKT-ZT	LED	80	3500K	600/FT	0-10V	120/277	6/FT	7/FT	FLUSH MOUNTED 6" LED SLOT FIXTURE. MOUNT IN ARCHITECURAL PLANK CEILING. COORDINATE INSTALLATION REQUIREMENTS WITH CEILING MANUFACTURER. PROVIDE FLANGELESS MOUNTING ACCESSORY.
L9E	MARK ARCHITECTURAL LIGHTING	SL6L-LOP-6'8"-FLP-GB-80CRI-35K-600LMF-MIN1-120- BLKT-1E10WLCP-ZT	LED	80	3500K	600/FT	0-10V	120/277	6/FT	7/FT	SAME AS TYPE L9, EXCEPT (4') WITH INTEGRAL 700 LUMENS EMERGENCY BATTERY PACK.
X	LITHONIA LIGHTING	EDGE-LIT EDGR-G-EL	LED	-	-	-	<u>-</u>	120/277	3	3	EDGE-LIT RECESSED LED EXIT SIGN. PROVIDE MOUNTING ACCESSORIES, DIRECTIONAL CHEVRONS, AND NUMBER OF FACES AS INDICATED ON FLOOR PLANS.

		<u> </u>	NETWORK LIGHTING CONTROL SYSTEMS		
			NETWORK OCCUPANCY SENSORS		
SYMBOL	MANUFACTURER	ALTERNATE	COVERAGE		
TAG	MODEL/SERIES	MANUFACTURER	DEVICE DESCRIPTION (WXD)	VOLTAGE	NOTES
OS	LEGRAND	ACUITY, CRESTRON	CEILING MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR. PIR MAJOR 32' Ø	24	
	LMDC-100	ETC, HUBBELL	360 DEGREE COVERAGE. DIGITAL. (2) RJ45 PIR MINOR 15' Ø		
			PORTS. IR TRANSCEIVER FOR WIRELESS SETUP.  ULT MAJOR 25' x 25'		
			NETWORK ROOM CONTROLLERS (POWER PACK)		
SYMBOL	MANUFACTURER	ALTERNATE			
TAG	MODEL/SERIES	MANUFACTURER	DEVICE DESCRIPTION	VOLTAGE	NOTES
R00	LEGRAND	ACUITY, CRESTRON	DIGITAL ROOM CONTROLLER FOR ON/OFF CONTROL OF LIGHTING LOADS.	120/	
	LMRC-101	ETC, HUBBELL	(1) 20A LOAD INPUT, (1) RELAY OUTPUT. MANUAL- AND AUTO-ON MODES.	277	
	(NON-DIM)				
R01	LEGRAND	ACUITY, CRESTRON	DIGITAL ROOM CONTROLLER FOR ON/OFF/0-10V DIMMING CONTROL OF LIGHTING LOADS.	120/	
	LMRC-211	ETC, HUBBELL	(1) 20A LOAD INPUT, (1) RELAY OUTPUT. 100mA SINK PER RELAY. MANUAL-, PARTIAL-,	277	
	(0-10V)		AND AUTO-ON MODES.		
R02	LEGRAND	ACUITY, CRESTRON	DIGITAL ROOM CONTROLLER FOR ON/OFF/0-10V DIMMING CONTROL OF LIGHTING LOADS.	120/	
	LMRC-212	ETC, HUBBELL	(1) 20A LOAD INPUT, (2) RELAY OUTPUTS. 100mA SINK PER RELAY. MANUAL-, PARTIAL-,	277	
	(0-10V)		AND AUTO-ON MODES.		
R03	LEGRAND	ACUITY, CRESTRON	DIGITAL ROOM CONTROLLER FOR ON/OFF/0-10V DIMMING CONTROL OF LIGHTING LOADS.	120/	
	LMRC-213	ETC, HUBBELL	(1) 20A LOAD INPUT, (3) RELAY OUTPUTS. 100mA SINK PER RELAY. MANUAL-, PARTIAL-,	277	
	(0-10V)		AND AUTO-ON MODES.		
			NETWORK LIGHTING SWITCHES		
SYMBOL	MANUFACTURER	ALTERNATE			
TAG	MODEL/SERIES	MANUFACTURER	DEVICE DESCRIPTION	VOLTAGE	NOTES

TAG	MODEL/SERIES	MANUFACTURER	DEVICE DESCRIPTION	VOLTAGE	NOTES
LV1	LEGRAND	ACUITY, CRESTRON	DIGITAL MULTI-BUTTON SWITCH FOR MANUAL ON/OFF AND SCENE CONTROL. EACH BUTTON	24	
	LMSW-100	ETC, HUBBELL	HAS INTEGRAL LED THAT ILLUMINATES WHEN LOAD IS ON. (2) RJ45 PORTS. IR TRANSCEIVER		
	SERIES		FOR WIRELESS SETUP. SWITCH DESIGNATIONS VARY PER PROJECT; REFER TO LIGHTING		
			PLANS AND/OR SWITCH SCHEDULE FOR PROGRAMMING.		
LV	LEGRAND	ACUITY, CRESTRON	DIGITAL SWITCH FOR MANUAL ON/OFF/DIMMING CONTROL. INTEGRAL LED ILLUMINATES	24	
	LMDM-101	ETC, HUBBELL	WHEN LOAD IS ON. (2) RJ45 PORTS. IR TRANSCEIVER FOR WIRELESS SETUP.		
VS	LEGRAND	ACUITY, CRESTRON	WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR, AUTO ON/OFF CONTROL WITH	24	
•••	DW-100-24	ETC, HUBBELL	INTEGRAL MANUAL OVERRIDE SWITCH. SINGLE RELAY. LOW-VOLTAGE.		
			NETWORK AUXILIARY LIGHTING EQUIPMENT		
SYMBOL	MANUFACTURER	ALTERNATE			
TAG	MODEL/SERIES	MANUFACTURER	DEVICE DESCRIPTION	VOLTAGE	NOTES
NONE	LEGRAND	ACUITY, CRESTRON	WIRELESS CONFIGURATION TOOL WITH USB. 2-WAY IR COMMUNICATION FOR DATA UPLOAD,	BATTERY	
	LMCT-100	ETC, HUBBELL	DOWNLOAD, CONFIRMATION, AND STORAGE. OLED SCREEN. PROVIDE ONE TOOL PER		
			SYSTEM AND LEAVE WITH OWNER. (3) AAA BATTERIES INCLUDED.		
NONE	LEGRAND	ACUITY, CRESTRON	INPUT/OUTPUT (I/O) DEVICE FOR INTERFACE WITH SECURITY, FIRE ALARM, OR OTHER THIRD	24	
	INTERFACE	ETC, HUBBELL	PARTY DEVICE/SYSTEM. (2) RJ45 PORTS. MANUFACTURER SHALL PROVIDE DEVICE AS		
			REQUIRED TO CONNECT TO SYSTEM(S) AS SPECIFIED ON LIGHTING CONTROL DIAGRAM.		
NONE	LEGRAND	ACUITY, CRESTRON	DIGITAL INPUT MODULE FOR LOW-VOLTAGE SENSORS. (2) RJ45 PORTS. CONVERTS A SINGLE	24	
	LMIO-201	HUBBELL	CHANNEL TO DIGITAL. COMMUNICATES SINGLE STATE OF OCCUPANCY BUT MAY BE DRIVEN BY		
			MULTIPLE SENSORS WIRED TOGETHER. PROVIDE QUANTITY AS REQUIRED TO MEET DESIGN		
			SHOWN. LOW-VOLTAGE SENSOR(S) WILL STILL REQUIRE LOW-VOLTAGE POWER PACK(S).		
TC	LEGRAND	ACUITY, CRESTRON	ZONE CONTROLLER. ASTRONOMIC TIMECLOCK. 99 LIGHTING GROUPS. BACNET MS/TP	120/	
	LMZC-301	ETC, HUBBELL	COMPATIBLE. (2) RJ45 PORTS. SURFACE MOUNTED. PLENUM RATED. PROVIDE DLM 24V	277	
			POWER BOOSTERS AS REQUIRED PER SYSTEM DESIGN.		

GENERAL NOTES: A. OCCUPANCY SENSOR LAYOUT DESIGNED FROM BASIS-OF-DESIGN COVERAGE PATTERNS. IF SUBMITTING ALTERNATE PER 'EQUIVALENT MANUFACTURER'

COLUMN, ADJUST SENSOR QUANTITIES AND LOCATIONS PER MANUFACTURER-SPECIFIC SPACING CRITERIA. B. PROVIDE SHOP DRAWINGS FOR ENGINEER AND ARCHITECT REVIEW THAT INCLUDE PRODUCT CUTSHEETS AND PROJECT-SPECIFIC LAYOUTS. LAYOUTS

MUST INCLUDE SENSOR LOCATIONS, HEIGHTS, ORIENTATION, AND COVERAGE AREAS. SHOW COORDINATION WITH ALL OTHER CEILING DEVICES

INCLUDING BUT NOT LIMITED TO HVAC SUPPLY AND RETURN GRILLES, SPRINKLERS, LIGHT FIXTURES, AND OTHER OWNER-PROVIDED CEILING MOUNTED DEVICES SUCH AS SPEAKERS, SECURITY CAMERAS, PROJECTORS, ETC. (SENSORS MAY BE ADVERSELY AFFECTED IF LOCATED TOO CLOSE TO OTHER

CEILING MOUNTED DEVICES). ALSO PROVIDE SCHEMATICS AND SCHEDULES WHEN APPLICABLE.

C. LIGHTING CONTROLS PRICING SHALL BE COMPLETELY SEPARATE OF ANY LIGHT FIXTURE PRICING. ). VERIFY COLOR(S) FOR ALL WALL AND CEILING MOUNTED DEVICES WITH THE ARCHITECT.

E. ALL WALL SWITCH AND CEILING SENSORS SHALL HAVE AN ADJUSTABLE TIME DELAY RANGE OF 0-30 MIN, UNO. CONFIRM SENSOR SETTINGS WITH SEQUENCE OF OPERATIONS AND OWNER PRIOR TO SYSTEM COMMISSIONING.

PROVIDE COPIES OF OPERATION AND MAINTENANCE INSTRUCTIONS FOR ALL DEVICES TO OWNER. B. PROVIDE A NEUTRAL CONDUCTOR TO ALL WALL SWITCH LOCATIONS PER NEC REQUIREMENTS.

H. DO NOT SHARE NEUTRAL CONDUCTOR ON LOAD SIDE OF DIMMERS. . CONTRACTOR SHALL COORDINATE MARKET BUILDING INTERIOR BUILDING LIGHTING CONTROL MANUFACTURER WITH EXTERIOR LIGHTING CONTROLS SPECIFIED

IN SITE DEVELOPMENT PACKAGE TO ENSURE LIGHTING CONTROLS ARE COMPATIBLE AND COMMUNICATE AS A COMPLETE SYSTEM.

CONTROL LIGHT RELAY (ALC) EMERGENCY HOT 5— NORMAL POWER SENSE ----CONTROL DEVICE REFER TO PLANS FOR CONTROL DEVICE LIGHT TYPE. TYPICAL. —— NORMAL NEUTRAL 5— NORMAL SWITCH SENSE — \*OPTION 1

UL 924 LISTED

EMERGENCY -

EMERGENCY NEUTRAL 5-

LINE VOLTAGE WIRING — – – 0-10V DIMMING WIRING NOTES:

ALC

**AUTOMATIC** 

1. OPERATION: EMERGENCY AND NORMAL LIGHT FIXTURES ARE CONTROLLED TOGETHER. UPON NORMAL POWER LOSS, EMERGENCY LIGHT FIXTURES SHALL AUTOMATICALLY TURN ON TO FULL

2. REFER TO SPECIFICATIONS FOR MORE INFORMATION. PROVIDE SUBMITTAL FOR ENGINEER'S REVIEW PRIOR TO PURCHASE.

3. LOCATE ALC WHERE ACCESSIBLE. REFER TO LIGHTING PLANS FOR MORE INFORMATION. 4. WIRING DETAIL IS DIAGRAMMATIC ONLY AND BASED ON LVS CONTROLS DEVICE. REFER TO

MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING DIAGRAM.

PER NEC 700.24, LUMINAIRES WITH 0-10V DIMMING USED IN CONJUNCTION WITH AN INVERTER OR GENERATOR FOR EMERGENCY LIGHTING PURPOSES SHALL INCLUDE DRIVERS BUILT TO IEC 60929 ANNEX E, ANSI C82.11, OR ANSI C137, WHEN THE CONTROL SIGNAL IS NOT CONNECTED, THE DRIVER SHALL PROVIDE THE MAXIMUM VALUE OF OUTPUT POWER.

(LOADS CONTROLLED TOGETHER) 0-10V AUTOMATIC LOAD CONTROL RELAY DETAIL NTS

# LIGHTING CONTROL SEQUENCE OF OPERATIONS

A. HOURS OF OPERATION

General Note: Confirm all timeclock schedules and sensor time delays with owner prior to final programming.

Business Hours: Mon-Fri 6:00 AM – 10:00 PM, Sat-Sun 6:00 AM - 11:59 PM

GENERAL REQUIREMENTS Emergency Lighting: Unless otherwise noted, emergency egress lighting is powered from emergency battery backup units integral to fixtures.

Timeclock: Space is networked to a central timeclock via room controller. Manual Control: Occupant can manually control lights via remotely local switch(es). Switch(es) can override timeclock setting for 2 hours maximum.

Occupancy: All controlled loads shall automatically turn on based on photocell and timeclock Vacancy: Lights shall turn off automatically based on photocell and timeclock schedule.

LOBBY, CORRIDOR, VESTIBULE Timeclock: Space is networked to a central timeclock via room controller.

Manual Control: Occupant can manually control lights via local switch(es). Switch(es) can override timeclock setting for 2 hours maximum.

Occupancy: All controlled loads shall automatically turn on based on timeclock schedule. Vacancy: Lights shall turn off automatically based on timeclock schedule. Lights shall flicker-

warn 5 minutes prior to turning off.

Vacancy: After 20 minutes, all controlled loads shall turn off.

Vacancy: After 20 minutes, all controlled loads shall turn off.

Timeclock: Space is networked to a central timeclock via room controller. Manual Control: Employees can manually control lights via remotely located switch. Occupancy: All controlled loads shall automatically turn on via occupancy sensor.

FAMILY RESTROOM, MOTHERS ROOM, JANITOR'S CLOSET Timeclock: Space is networked to a central timeclock via room controller. Manual Control: Occupant can manually control lights via local switch(es). Occupancy: All controlled loads shall automatically turn on via occupancy sensor.

MECHANICAL/ELECTRICAL ROOM

Timeclock: Space is networked to a central timeclock via room controller. Manual Control: Occupant can manually control lights via local switch(es). Occupancy: Occupant must manually turn on lights. Vacancy: Occupant must manually turn off lights.

STORAGE SPACE, BACK OF HOUSE SPACE, IT ROOM Timeclock: Space is networked to a central timeclock via room controller. Manual Control: Occupant can manually control lights via local switch(es).

Vacancy: After 20 minutes, all controlled loads shall turn off.

CATERING KITCHEN Timeclock: Space is networked to a central timeclock via room controller. Manual Control: Occupant can manually control lights via local switch(es). Switch(es) can override timeclock setting for 2 hours maximum. Occupancy: Occupant must manually turn on lights.

Vacancy: After 20 minutes, all controlled loads shall turn off. FARMER'S MARKET

Occupancy: Occupant must manually turn on lights.

Timeclock: Space is networked to a central timeclock via room controller. Manual Control: Occupant can manually control lights via local switch(es). Switch(es) can override timeclock setting for 2 hours maximum.

Occupancy: All controlled loads shall automatically turn on based on timeclock schedule. Vacancy: Lights shall turn off automatically based on timeclock schedule. Lights shall flickerwarn 5 minutes prior to turning off.

Emergency: Emergency lighting shall be powered via central lighting inverter.

# **LIGHTING GENERAL NOTES:**

AHJ AND OWNER.

DIMMING SYSTEM.

1. THE EMERGENCY LIGHTING SYSTEM HAS BEEN DESIGNED TO PROVIDE AN INITIAL FLOOR ILLUMINANCE LEVEL OF 1 FC AVERAGE, 0.1 FC MINIMUM AND NO MORE THAN A 40:1 MAX/MIN RATIO ALONG THE EMERGENCY EGRESS PATHS. WHERE APPLICABLE, ADJUST AIMING OF EMERGENCY LIGHTS AS REQUIRED TO PROVIDE PROPER ILLUMINATION AT FLOOR AVOIDING OBSTACLES AND SHADOWS

AFTER STORE SET-UP IS COMPLETE. 2. WALL MOUNTED EXITS SIGNS SHALL BE MOUNTED 12" ABOVE DOOR FRAME AND CENTERED ABOVE DOOR OPENING, UNLESS NOTED OTHERWISE. CEILING/PENDANT MOUNTED EXIT SIGNS SHALL BE SUSPENDED TO 12'-0" AFF IN CUSTOMER AREAS OPEN TO STRUCTURE, AT BOTTOM OF BAR JOISTS IN BACKROOM AREAS AND ON FINISHED CEILING WHERE APPLICABLE, UNLESS NOTED OTHERWISE. EXIT SIGNS SHALL BE READILY VISIBLE FROM DIRECTION OF EGRESS TRAVEL. COORDINATE FINAL EXIT SIGN LOCATIONS WITH

3. SUSPEND BACK OF HOUSE, RECEIVING AND STOCKROOM AREA LIGHT FIXTURES AS HIGH AS PRACTICABLE IN ORDER TO AVOID DAMAGE DURING STOCKING, UNLESS NOTED OTHERWISE. SUSPEND JUST BELOW REFRIGERATION PIPING, DUCTWORK AND SIMILAR OBSTRUCTIONS WHERE NECESSARY TO AVOID SHADOWS. COORDINATE REQUIREMENTS WITH OWNER AND OTHER DISCIPLINES PRIOR TO INSTALLATION.

4. PROVIDE LABEL AT EACH MANUAL LIGHT SWITCH INDICATING THE LIGHT FIXTURE(S) THAT THE SWITCH CONTROLS AND THE RESPECTIVE "PNI BD-CKT#" DESIGNATION, A SINGLE LIGHT SWITCH FOR A SMALL ROOM DOES NOT NEED TO INDICATE THE SPACE CONTROLLED SINCE IT IS INTUITIVELY OBVIOUS, COORDINATE LABEL REQUIREMENTS WITH THE OWNER PRIOR TO INSTALLATION. REFER

TO THE SPECIFICATIONS FOR MORE INFORMATION. 5. ALL REMOTELY LOCATED LIGHT FIXTURE POWER SUPPLIES SHALL BE LOCATED IN AN ACCESSIBLE LOCATION WITH PROPER VENTILATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONCEAL DEVICES AND RELATED WIRING FROM CUSTOMER/PUBLIC VIEW. PROVIDE ENCOSURE IF REQUIRED. COORDINATE LOCATION AND ENCLOSURE TYPE WITH ARCHITECT AND OWNER PRIOR TO

INSTALLATION. 6. PER 2017 NEC 700.2 AND 700.24. ALL DIRECTLY CONTROLLED LUMINAIRES USED FOR EMERGENCY ILLUMINATION AND ALL APPLICABLE CONTROLS SHALL HAVE UL 924 LISTING OR EQUIVALENT NRTL LISTING. IF EMERGENCY LUMINAIRE OR CONTROL MANUFACTURER DOES NOT HAVE APPROPRIATE LISTING THE EMERGENCY LUMINAIRE SHALL NOT BE CONNECTED TO 0-10V

7. PER 2017 NEC 700.2 AND 700.24, ALL DIRECTLY CONTROLLED LUMINAIRES USED FOR EMERGENCY ILLUMINATION AND ALL APPLICABLE CONTROLS SHALL HAVE UL 924 LISTING OR EQUIVALENT NRTL LISTING. IF EMERGENCY LUMINAIRE OR CONTROL MANUFACTURER DOES NOT HAVE APPROPRIATE LISTING THEN FIELD LISTING OF EQUIPMENT IS ACCEPTABLE (AT CONTRACTOR'S COST), IF APPROVED BY THE AHJ. ALTERNATIVELY, AS ALLOWED PER 2017 NEC 90.4, THE CONTRACTOR MAY OBTAIN SPECIAL PERMISSION FROM THE AHJ AND SUBMIT SAID PERMISSION IN WRITING TO THE ENGINEER FOR REVIEW. IF USING NON-LISTED EQUIPMENT FOR APPLICABLE EMERGENCY SYSTEMS. THE ALTERNATIVE METHOD MUST BE FIELD TESTED AND ACHIEVE EQUIVALENT OBJECTIVES TO CODE INTENT. IN ADDITION, ALTERNATE METHOD AND EQUIPMENT USED MUST BE DEEMED SAFE AND ACCEPTABLE TO BOTH THE AHJ AND THE ENGINEER.

# **LIGHTING SUPPLEMENTAL SPECIFICATIONS:**

1. REFER TO THE ARCHITECTURAL DRAWINGS FOR LIGHT FIXTURE LOCATIONS, MOUNTING HEIGHTS, TRACK LENGTHS AND ADDITIONAL MOUNTING INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT COORDINATION AND CONFLICT ISSUES ARE RESOLVED PRIOR TO INSTALLATION OF LIGHT FIXTURES. CONTACT ARCHITECT/ENGINEER IMMEDIATELY IF THERE ARE DISCREPANCIES.

2. THROUGH WIRING OF RECESSED LIGHT FIXTURES, IN SUSPENDED CEILINGS, IS NOT PERMITTED. CONNECT EACH LIGHT FIXTURE BY A WHIP TO A JUNCTION BOX. PROVIDE CABLE WHIPS OF SUFFICIENT LENGTHS TO ALLOW FOR RELOCATING EACH LIGHT FIXTURE WITHIN A 5'-0" RADIUS OF ITS INDICATED LOCATION. CABLE WHIPS SHALL NOT EXCEED 6'-0" OF UNSUPPORTED LENGTHS.

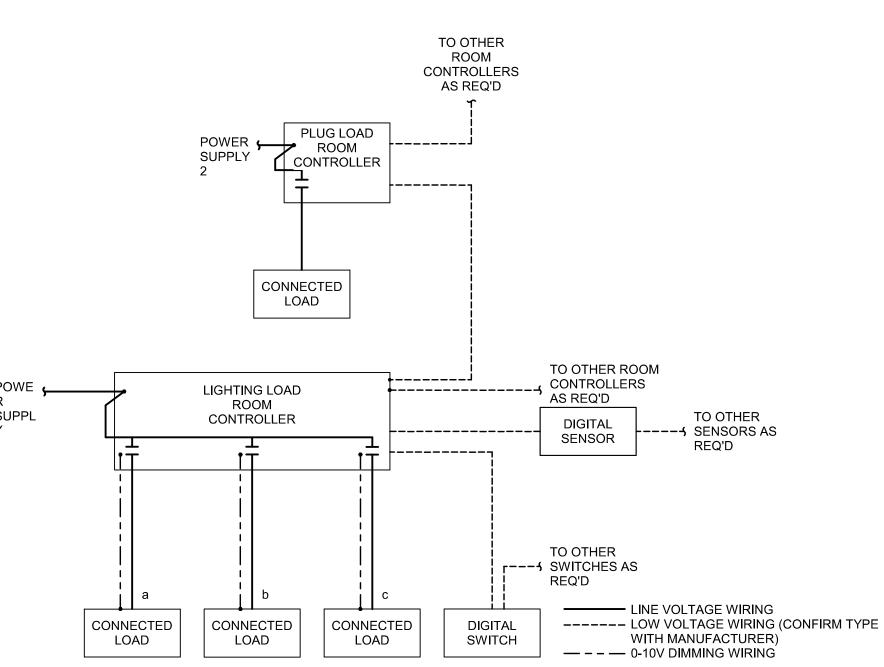
3. ALL EMERGENCY LIGHTS AND EXIT SIGNS WITH INTEGRAL BATTERY BACK-UP SHALL BE CONNECTED TO A SEPARATE UNSWITCHED CONDUCTOR BYPASSING ALL OTHER CONTROLS AND CONTACTORS, UNLESS NOTED OTHERWISE. EXIT SIGNS SHALL NOT BE SWITCHED. REFER TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR PROPER INSTALLATION AND TESTING. ALLOW BATTERY TO CHARGE FOR A MINIMUM OF 48 HOURS BEFORE LIGHT LEVEL TESTING. IN ORDER TO PREVENT BATTERY DAMAGE. DO NOT TURN OFF POWER FOR EXTENDED PERIODS OF TIME AFTER EMERGENCY LIGHT HAS BEEN POWERED.

4. PROVIDE A NEUTRAL CONDUCTOR TO ALL WALL MOUNTED LINE VOLTAGE LIGHT SWITCHES, UNLESS NOTED OTHERWISE. IF NEUTRAL TERMINATION IS NOT REQUIRED FOR THE DEVICE THEN

CAP CONDUCTOR AND TAG AS "NEUTRAL FOR FUTURE USE".

5. COORDINATE ALL OCCUPANCY/VACANCY SENSOR SETTINGS WITH OWNER AND ADJUST AS NECESSARY FOR PROPER OPERATION. SETTINGS MUST COMPLY WITH AHJ AND LOCAL ENERGY CODE REQUIREMENTS.

6. DO NOT INSTALL OCCUPANCY/VACANCY SENSORS WITHIN 48" OF AIR DIFFUSER OR SIMILAR OBSTRUCTION THAT MAY ADVERSLY AFFECT THE SENSOR PERFORMANCE. COORDINATE FINAL SENSOR LOCATIONS WITH OTHER TRADES AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



NOTES: REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR DEVICE AND EQUIPMENT SPECIFICATIONS.

2. QUANTITY OF RELAYS SHOWN IS GENERIC. REFER TO PLANS, LIGHTING CONTROL DEVICE SCHEDULE, AND SHOP DRAWINGS FOR FINAL QUANTITY PER ROOM CONTROLLER.

3. DETAIL IS DIAGRAMMATIC AND IS BASED ON LEGRAND. THIS REPRESENTS THE GENERAL SCOPE OF WORK AND LOCATION OF DEVICES IN RELATION TO EACH OTHER ALONG THE POWER CIRCUIT. DIAGRAMS MAY BE DIFFERENT FOR ALLOWED EQUIVALENT MANUFACTURERS. ELECTRICAL CONTRACTOR SHALL COORDINATE FULL SYSTEM REQUIREMENTS WITH SELECTED MANUFACTURER. PROVIDE ALL PARTS AND PIECES REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. REFER TO FINAL APPROVED MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS FOR INSTALLATION.

4. CIRCUITING SHOWN ON THE PLAN CORRESPONDS TO THE LIGHTING CONTROL INTENT. IF CIRCUITING IS CHANGED IN THE FIELD, ENSURE THAT SYSTEM PROGRAMMING WITH REVISED CIRCUITING MEETS THE ORIGINAL LIGHTING CONTROL INTENT. UPDATE LIGHTING CONTROL

PANEL SCHEDULES IN RECORD DRAWINGS. 5. PROVIDE SYSTEM COMMISSIONING AS REQUIRED PER ENERGY CODE.

DESCRIPTION DATE

PERMIT SET

11/01/2023

PROJECT NO:

DATE:

DRAWN BY:

CHECKED BY:

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the express written consent of GLMV Architecture, Inc.

**ELECTRICAL** 

**DETAILS AND** 

3 ROOM CONTROLLER DETAIL - ON/OFF OR ON/OFF/0-10V DIMMING CONTROL 12" = 1'-0"

BRIAN C. OLLIGES

LICENSE # PE-2022017790

**>** 

NOTE: PANEL & PLATE CONNECTORS ARE NOT SHOWN TO SCALE.



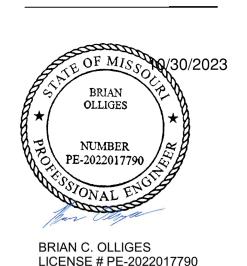
ENGINEERS

5201 TENNYSON PARKWAY, SUITE 210
PLANO, TX 75024

TEL 972.386.6888 FAX 972.386.6887

WWW.HENDERSONENGINEERS.COM
2150003907

MO. CORPORATE NO: E-556D
EXPIRES 10/31/2024



IMIT - MARKET PLAZA

Ш

DESCRIPTION DATE

PROJECT NO: 18225R21006

STATUS: PERMIT SET

DATE: 11/01/2023

DRAWN BY: JFR

CHECKED BY: JG

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AUDIO-VIDEO GENERAL NOTES AND LEGEND

the express written consent of GLMV Architecture, Inc.

NOT IN SCOPE (NIS)

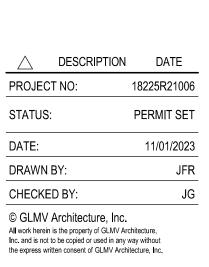
3" CONDUIT. X INDICATES SIGNAL TYPE, SEE ABOVE

A-000

WITH CONDUIT GROUP DIVISION. -

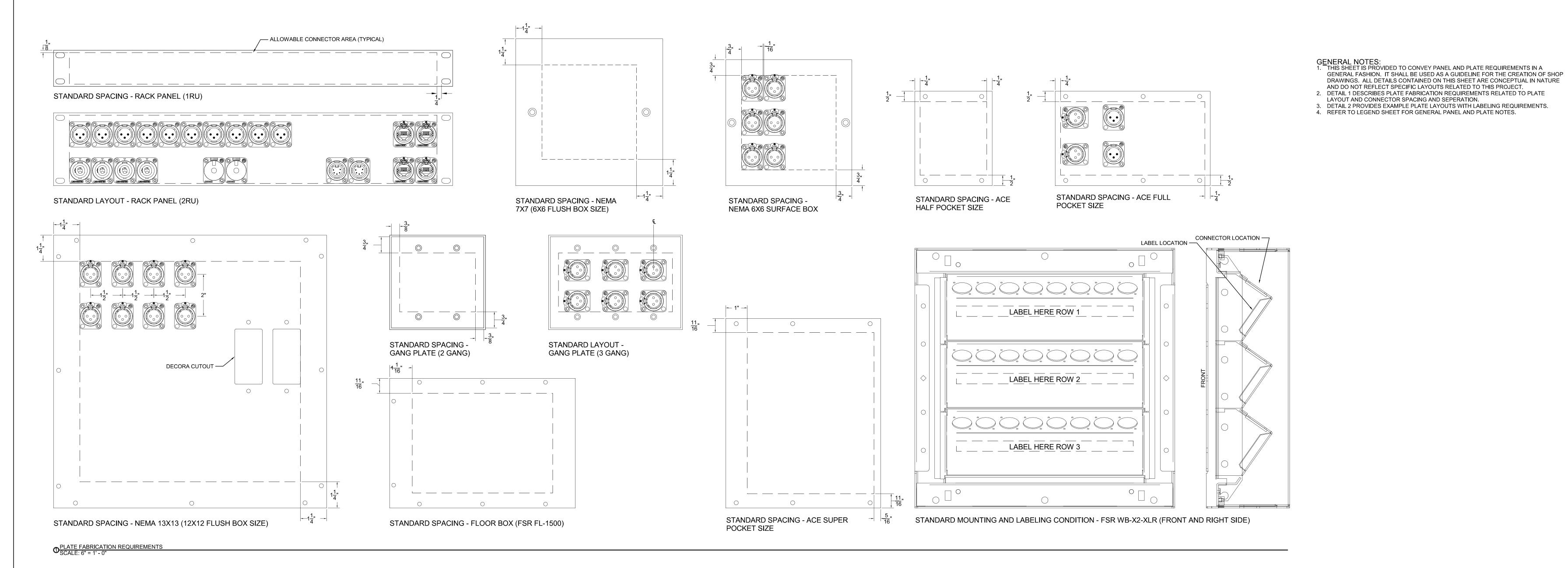
IOTE: FOR TYPICAL BOXES, REFER TO TYPICAL BOX SCHEDULE FOR ADDITIONAL INSTRUCTIONS. FOLLOW

CONDUIT REQUIREMENTS AS LISTED IN SCHEDULE AND ANY ADDITIONAL NOTES AS INDICATED ON PLANS.



AUDIO-VIDEO PLATE REQUIREMENTS

TA-001



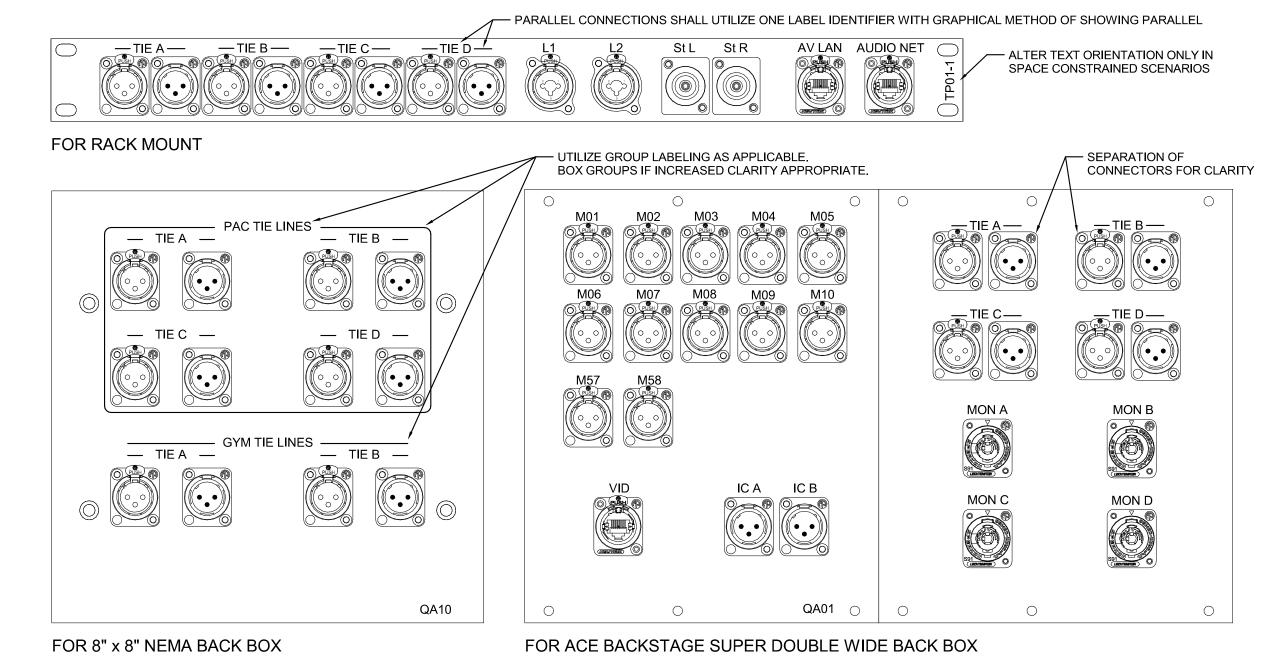
M01
M02
M03
M04
M05
M06

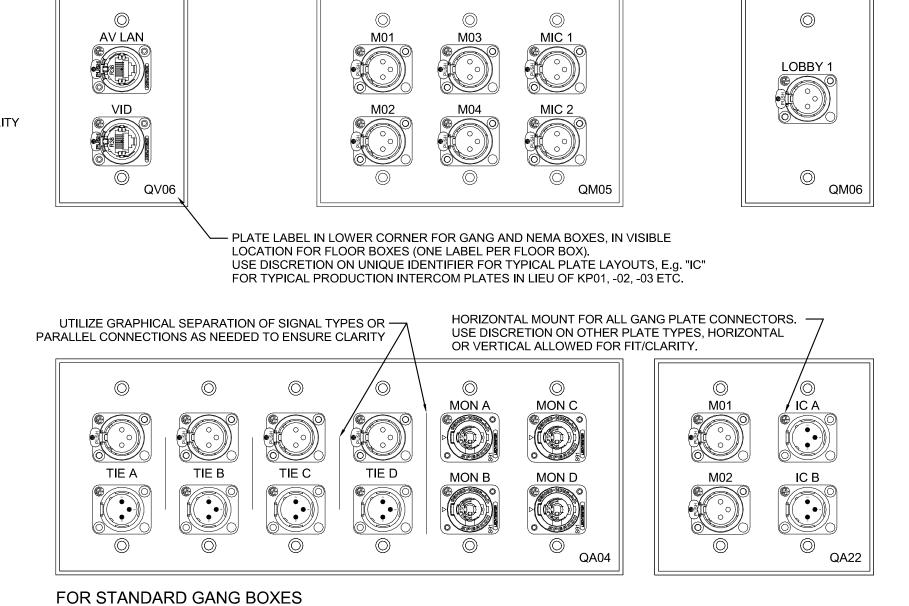
STG MNGR
ANNC
CHIME

TIEA
TIEB
TIEC
TIED
VID
AV LAN
MON A
MON B
MON C
MON D

QA06

FOR 12" x 12" NEMA BACK BOX





v1.00

AUDIO-VIDEO SITE BOX SCHEDULE										
BOX FUNCTION BOX PROPERTIES					BOX	ACCESSORIES	CONDUIT F	REQUIREMENTS		
ID	DESCRIPTION	B.O.D. MANUF.	B.O.D. MODEL	INSTALL HEIGHT (CENTER OF BOX)	MOUNTING	COVER	INSERTS	SIZE	ROUTING	NOTES
JS:EXT:01	ASSORTED CONNECTION WALL BOX	RACO	674	166"	FLUSH	BLANK	1-GANG MUD RING	PER PLAN	PER PLAN	
JS:EXT:01	ASSORTED CONNECTION WALL BOX	RACO	674	166"	FLUSH	BLANK	1-GANG MUD RING	PER PLAN	PER PLAN	
JS:EXT:01	ASSORTED CONNECTION WALL BOX	RACO	674	166"	FLUSH	BLANK	1-GANG MUD RING	PER PLAN	PER PLAN	
JS:EXT:01	ASSORTED CONNECTION WALL BOX	RACO	674	166"	FLUSH	BLANK	1-GANG MUD RING	PER PLAN	PER PLAN	
JS:EXT:01	ASSORTED CONNECTION WALL BOX	RACO	674	168"	FLUSH	BLANK	1-GANG MUD RING	PER PLAN	PER PLAN	
JS:EXT:01	ASSORTED CONNECTION WALL BOX	RACO	674	166"	FLUSH	BLANK	1-GANG MUD RING	PER PLAN	PER PLAN	

SCHEDULED PARAMETER DEFINITIONS:

• POWER DRAW = DESIGNED LOAD ON CIRCUIT WITHOUT AMPLIFIER CHANNEL SIZING FACTOR (CONTINUOUS POWER RATING)

 FOR LOW IMPEDANCE: VALUES INDICATED ARE RMS FOR 70V: VALUES INDICATED ARE MAXIMUM CIRCUIT LOAD

• WIRE AWG# = ANTICIPATED WIRE GAUGE REQUIRED FOR MAXIMUM ALLOWABLE LINE LOSS OF [1.0dB]; INSTALLATION FACTORS

MAY REQUIRE ADJUSTMENTS BY THE CONTRACTOR MINIMUM ALLOWABLE WIRE GAUGE:

 70V LOUDSPEAKERS: 16AWG LOW IMP LOUDSPEAKERS: 12AWG

 SUBWOOFERS: 12AWG HEIGHT = MEASURED TO CENTER OF LOUDSPEAKER FACE

YAW = HORIZONTAL ORIENTATION IN RELATION TO PLAN NORTH

PITCH = VERTICAL ORIENTATION

ROLL = ROTATIONAL ORIENTATION AROUND LOUDSPEAKER AXIS

 ROLL ENCLOSURE 90 = STARTING POSITION OF LOUDSPEAKER IS ROLLED 90 DEGREES • ROTATE HORN 90 = STARTING POSTION OF HORN IS ROTATED 90 DEGREES IN THE ENCLOSURE

LOUDSPEAKER PROPERTIES CIRCUIT PROPERTIES LS:E LS:E LS:E LS:E

LS:EXT:07 TYPE 6 144" AFF. 150 W

IT 118 AMP1-6

JS:EXT:01 1-GANG (HORIZ) 166" AFF

		WIRE	SPEC			70V TAP						ROLL	ROTATE	
ID	LOAD TYPE	AWG#	NAME	B.O.D. MANUF.	B.O.D. MODEL	(WATTS)	MOUNTING CONDITION	HEIGHT	YAW	PITCH	ROLL	ENCL. 90	HORN 90	NOTES
													,	
5														
LS:EXT:01	70 V	12	TYPE 4	BIAMP	DESONO MASK4CT	20	SUSPENDED STRUCTURE	163"	0.00°	-45.00°	0.00°	Yes	No	
LS:EXT:02	70 V	12	TYPE 4	BIAMP	DESONO MASK4CT	20	SUSPENDED STRUCTURE	163"	0.00°	-45.00°	0.00°	Yes	No	
LS:EXT:03	70 V	12	TYPE 4	BIAMP	DESONO MASK4CT	20	SUSPENDED STRUCTURE	163"	0.00°	-45.00°	0.00°	Yes	No	
LS:EXT:04	70 V	12	TYPE 4	BIAMP	DESONO MASK4CT	20	SUSPENDED STRUCTURE	163"	0.00°	-45.00°	0.00°	Yes	No	
LS:EXT:05	70 V	12	TYPE 4	BIAMP	DESONO MASK4CT	20	SUSPENDED STRUCTURE	163"	0.00°	-45.00°	0.00°	Yes	No	
LS:EXT:06	70 V	12	TYPE 4	BIAMP	DESONO MASK4CT	20	SUSPENDED STRUCTURE	163"	0.00°	-45.00°	0.00°	Yes	No	
6														
LS:EXT:07	LOW IMP	12	TYPE 6	BIAMP	DESONO ENT206	150	POLE STRUCTURE	144"	90.00°	-14.00°	0.00°	No	No	
7														
LS:EXT:08	LOW IMP	12	TYPE 6	BIAMP	DESONO ENT206	150	POLE STRUCTURE	144"	270.00°	-14.00°	0.00°	No	No	

AUDIO-VIDEO LOUDSPEAKER SCHEDULE - AMP1

LOUDSPEAKER MOUNTING

TO ORIENT LOUDSPEAKERS:

1. VERIFY "ROLL ENCLOSURE 90" AND "ROTATE HORN 90" PRIOR TO PROCEEDING

VIEW LOUDSPEAKERS FROM REAR (FROM PLAN SOUTH VIEWING NORTH) ROTATE LOUDSPEAKER COUNTER CLOCKWISE (POSITIVE DEGREE) OR CLOCKWISE (NEGATIVE DEGREE) TO THE SCHEDULED YAW ORIENTATION

TILT LOUDSPEAKER TO SCHEDULED PITCH ORIENTATION

ROLL LOUDSPEAKER COUNTER CLOCKWISE (POSITIVE DEGREE) OR CLOCKWISE (NEGATIVE DEGREE) TO SCHEDULED ROLL ORIENTATION

FINAL ORIENTATION OF LOUDSPEAKERS:

SHALL BE AT THE DISCRETION OF THE CONSULTANT DURING COMMISSIONING CONTRACTOR SHALL PROVIDE MEANS OF ACCESS TO ALL LOUDSPEAKER POSITIONS FOR TESTING, VERIFICATION, REORIENTATION, ETC.

MEANS OF ACCESS SHALL INCLUDE MOTORIZED LIFTS, SCAFFOLDING OR OTHER METHOD TO ALLOW FOR SAFE AND TIMELY OBSERVATION AND ADJUSTMENT

LS:EXT:04 TYPE 4 163" AFF. 20 W LS:EXT:05 TYPE 4 163" AFF. 20 W LS:EXT:03 TYPE 4 163" AFF. 20 W JS:EXT:01 1-GANG (HORIZ) 166" AFF JS:EXT:01 1-GANG (HORIZ) 166" AFF

BRIAN C. OLLIGES LICENSE # PE-2022017790

AUDIO-VIDEO PLAN NOTES:

ON TA DRAWINGS.

A1 LOUDSPEAKER POLE MOUNTED TO LIGHT POLE.
PROVIDE PULL STRING TO FIVE FEET OUTSIDE
EXTERIOR WALL INDICATED FOR PLAZA SITE
AUDIO-VIDEO CIRCUITRY. ELECTRICAL

CONTRACTOR TO PROVIDE CONDUIT AS INDICATED

ENCLOSURE/HORN

ORIENTATION

PROJECT NO: CHECKED BY:

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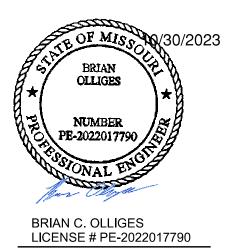
AUDIO-VIDEO SITE PLAN

TA-100

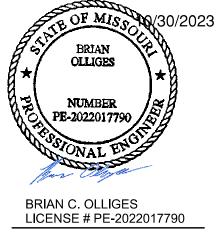
1/16" = 1'-0"







HENDERSON ENGINEERS	5201 TENNYSON PARKWAY, SUITE 210 PLANO, TX 75024 <b>TEL</b> 972.386.6888 <b>FAX</b> 972.386.6887	WWW.HENDERSONENGINEERS.COM	2150003907 MO. CORPORATE NO: E-556D EXPIRES 10/31/2024
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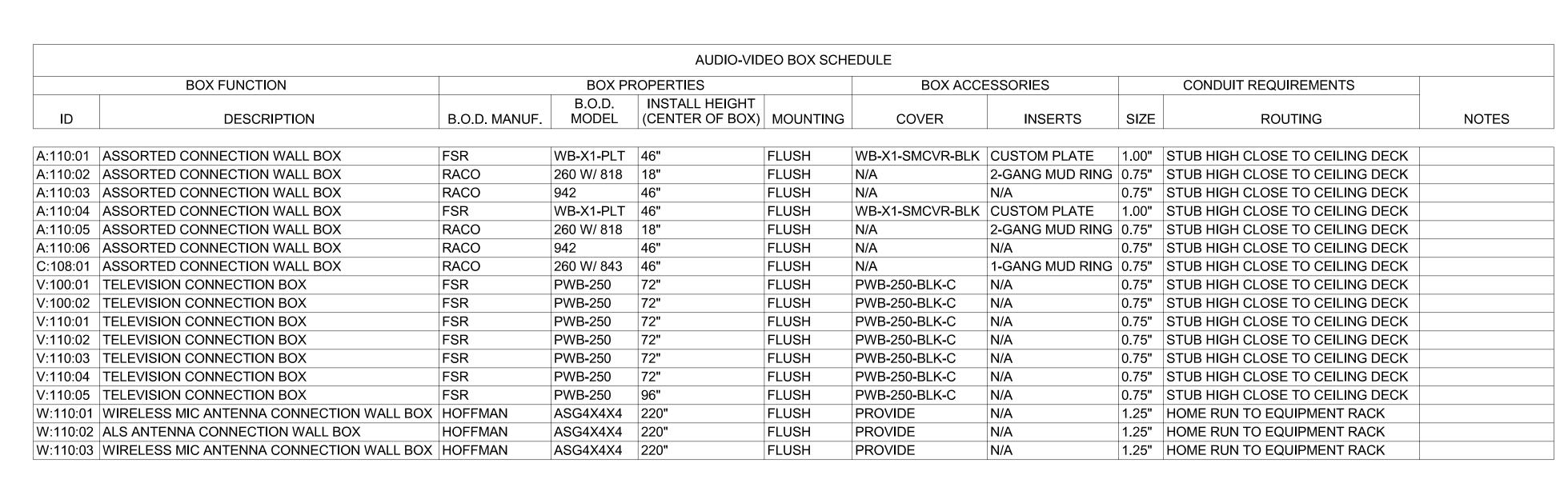
# SUMMIT

$\triangle$	DESCRIPTION	DATE				
ROJECT	NO:	18225R21006				
STATUS:		PERMIT SET				
ATE:		11/01/2023				
RAWN E	BY:	JFR				
HECKE	D BY:	JG				
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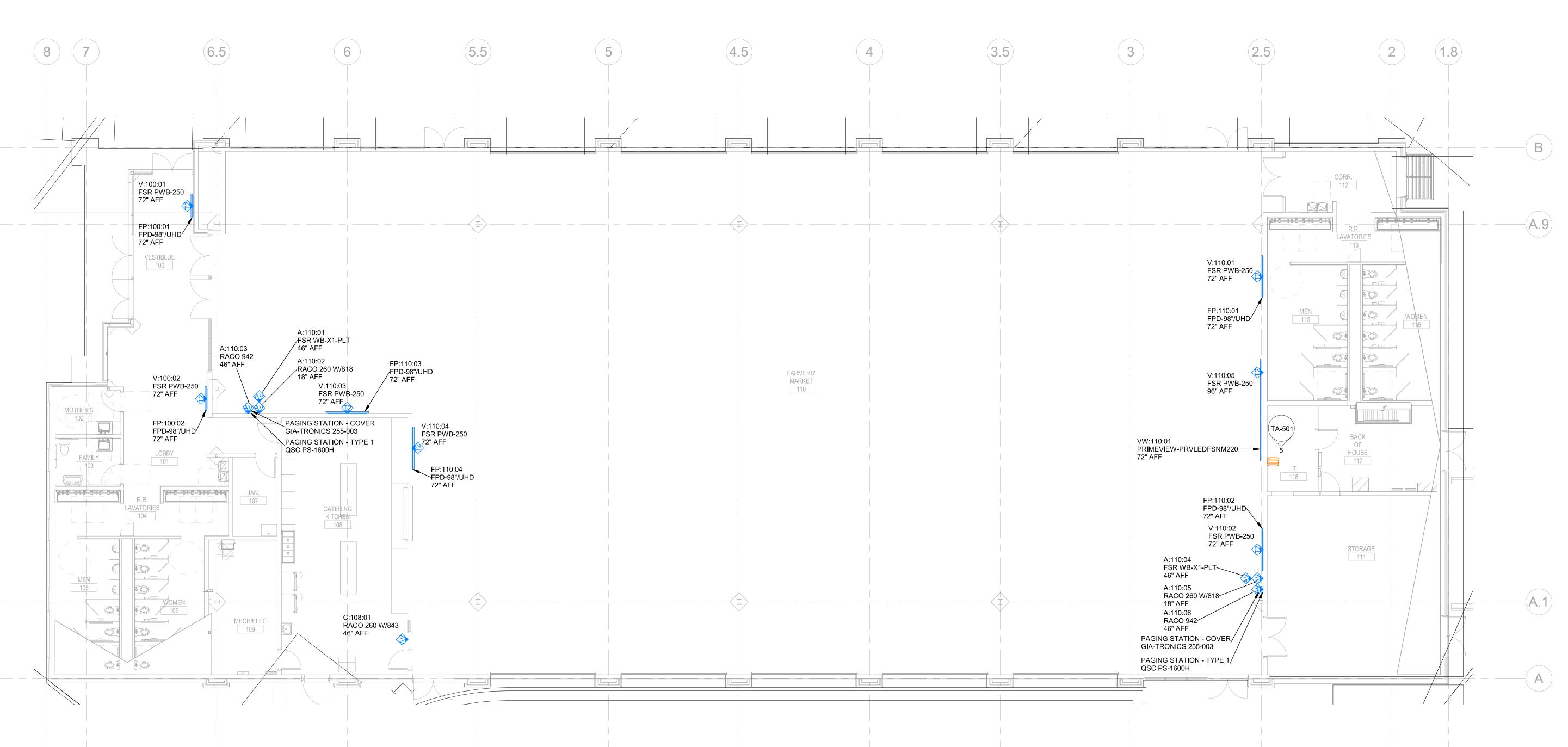
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AUDIO-VIDEO PLAN

TA-101



				AUDIO-VIDEO FLA	AT PANEL DISPLAY SCHE	DULE			
	DISPL	AY PROPERTIES			MOUNTING REQUIREM	1ENTS	DISPLAY RES	PONSIBILITY	
15	ODEO MAME	D.O.D. MANUE	D.O.D. MODEL	INSTALL HEIGH AFF. (CENTER O	F		NOTALLED DV	DDO//IDED DV	NOTEO
ID	SPEC NAME	B.O.D. MANUF.	B.O.D. MODEL	DISPLAY)	TYPE	FURNISHED BY	INSTALLED BY	PROVIDED BY	NOTES
FP:100:01	FPD-98"/UHD	NEC	M861	72"	WALL - FIXED	CONTRACTOR	CONTRACTOR	CONTRACTOR	
FP:100:02	FPD-98"/UHD	NEC	M861	72"	WALL - FIXED	CONTRACTOR	CONTRACTOR	CONTRACTOR	
FP:110:01	FPD-98"/UHD	NEC	M861	72"	WALL - FIXED	CONTRACTOR	CONTRACTOR	CONTRACTOR	
FP:110:02	FPD-98"/UHD	NEC	M861	72"	WALL - FIXED	CONTRACTOR	CONTRACTOR	CONTRACTOR	
FP:110:03	FPD-98"/UHD	NEC	M861	72"	WALL - FIXED	CONTRACTOR	CONTRACTOR	CONTRACTOR	
FP:110:04	FPD-98"/UHD	NEC	M861	72"	WALL - FIXED	CONTRACTOR	CONTRACTOR	CONTRACTOR	
VW:110:01	PRIMEVIEW-PRVLEDFSNM220	PRIMEVIEW	PRVLEDFSNM220	72"	WALL - FIXED	CONTRACTOR	CONTRACTOR	CONTRACTOR	



					AUDIO-VIDEO I	OUDSPEAK	ER SCHEDULE - AMP1							
	CIRCUIT PRO	PERTIES		LOUDSPEAK	ER PROPERTIES		LOUDSPEAKER MOUN	ITING	OR	IENTATIO	ON	ENCLOSU	JRE/HORN	
ID	LOAD TYPE	WIRE AWG#	SPEC NAME	B.O.D. MANUF.	B.O.D. MODEL	70V TAP (WATTS)	MOUNTING CONDITION	HEIGHT	YAW	PITCH	ROLL	ROLL ENCL. 90	ROTATE HORN 90	NOTES
IT 118 AMP1 1														
LS:100:01	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						
LS:100:02	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						
LS:100:03	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						
LS:101:01	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						
LS:101:02	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						
LS:102:01	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						
LS:103:01	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						
LS:104:01	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						
LS:104:02	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						
LS:104:03	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						
LS:104:04	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						
LS:111:01	70 V	14	TYPE 5	BIAMP	DESONO P30DT	3.75	SUSPENDED	108"						
LS:111:02	70 V	14	TYPE 5	BIAMP	DESONO P30DT	3.75	SUSPENDED	108"						
LS:111:03	70 V	14	TYPE 5	BIAMP	DESONO P30DT	3.75	SUSPENDED	108"						
LS:111:04	70 V	14	TYPE 5	BIAMP	DESONO P30DT	3.75	SUSPENDED	108"						
LS:112:01	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						
LS:113:01	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						
LS:113:02	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						
LS:113:03	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						
LS:113:04	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						
2	1	1								1				
LS:108:01	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						
LS:108:02	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						
LS:108:03	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						
LS:108:04	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						
LS:108:05	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						
LS:108:08	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						
LS:109:06	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						
LS:109:07	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						

						AUDIO-VIDEO L	OUDSPEAK	(ER SCHEDULE - AMP1							
		CIRCUIT PRO	PERTIES		LOUDSPEAK	ER PROPERTIES		LOUDSPEAKER MOUN	ITING	OR	IENTATIO	NC	ENCLOSU	JRE/HORN	
ΓES	ID	LOAD TYPE	WIRE AWG#	SPEC NAME	B.O.D. MANUF.	B.O.D. MODEL	70V TAP (WATTS)	MOUNTING CONDITION	HEIGHT	YAW	PITCH	ROLL	ROLL ENCL. 90	ROTATE HORN 90	NOTES
												1			
	3														
	LS:110:01	70 V	14	TYPE 3	BIAMP	DESONO DX-S8	40	SUSPENDED STRUCTURE	252"	0.00°	-90.00°	0.00°	No	No	
	LS:110:02	70 V	14	TYPE 3	BIAMP	DESONO DX-S8	40	SUSPENDED STRUCTURE		0.00°		0.00°		No	
	LS:110:03	70 V	14	TYPE 3	BIAMP	DESONO DX-S8	40	SUSPENDED STRUCTURE		0.00°	-90.00°	0.00°		No	
	LS:110:04	70 V	14	TYPE 3	BIAMP	DESONO DX-S8	40	SUSPENDED STRUCTURE		0.00°		0.00°		No	
	LS:110:05	70 V	14	TYPE 3	BIAMP	DESONO DX-S8	40	SUSPENDED STRUCTURE		0.00°	-90.00°	0.00°	No	No	
	LS:110:06	70 V	14	TYPE 3	BIAMP	DESONO DX-S8	40	SUSPENDED STRUCTURE		0.00°	-	0.00°		No	
	LS:110:07	70 V	14	TYPE 3	BIAMP	DESONO DX-S8	40	SUSPENDED STRUCTURE	252"	0.00°	-90.00°	0.00°	No	No	
	LS:110:08	70 V	14	TYPE 3	BIAMP	DESONO DX-S8	40	SUSPENDED STRUCTURE	252"	0.00°		0.00°	No	No	
	LS:110:09	70 V	14	TYPE 3	BIAMP	DESONO DX-S8	40	SUSPENDED STRUCTURE	252"	0.00°	-90.00°	0.00°	No	No	
												1			
	4														
	LS:110:10	70 V	14	TYPE 2	BIAMP	DESONO DX-S5	7.5	SUSPENDED STRUCTURE	163"	0.00°	-90.00°	0.00°	No	No	
	LS:110:11	70 V	14	TYPE 2	BIAMP	DESONO DX-S5	7.5	SUSPENDED STRUCTURE	163"	0.00°	-90.00°	0.00°	No	No	
	LS:110:12	70 V	14	TYPE 2	BIAMP	DESONO DX-S5	7.5	SUSPENDED STRUCTURE	163"	0.00°	-90.00°	0.00°	No	No	
	LS:110:13	70 V	14	TYPE 2	BIAMP	DESONO DX-S5	7.5	SUSPENDED STRUCTURE	163"	0.00°	-90.00°	0.00°	No	No	
	LS:110:14	70 V	14	TYPE 2	BIAMP	DESONO DX-S5	7.5	SUSPENDED STRUCTURE	163"	0.00°	-90.00°	0.00°	No	No	
	LS:110:15	70 V	14	TYPE 2	BIAMP	DESONO DX-S5	7.5	SUSPENDED STRUCTURE	163"	0.00°	-90.00°	0.00°	No	No	
	LS:110:16	70 V	14	TYPE 2	BIAMP	DESONO DX-S5	7.5	SUSPENDED STRUCTURE	163"	0.00°	-90.00°	0.00°	No	No	
	LS:110:17	70 V	14	TYPE 2	BIAMP	DESONO DX-S5	7.5	SUSPENDED STRUCTURE	163"	0.00°	-90.00°	0.00°	No	No	
	LS:110:18	70 V	14	TYPE 2	BIAMP	DESONO DX-S5	7.5	SUSPENDED STRUCTURE	163"	0.00°	-90.00°	0.00°	No	No	
		<del></del>			<del></del>		<del></del>	•			•		•		

## SCHEDULED PARAMETER DEFINITIONS:

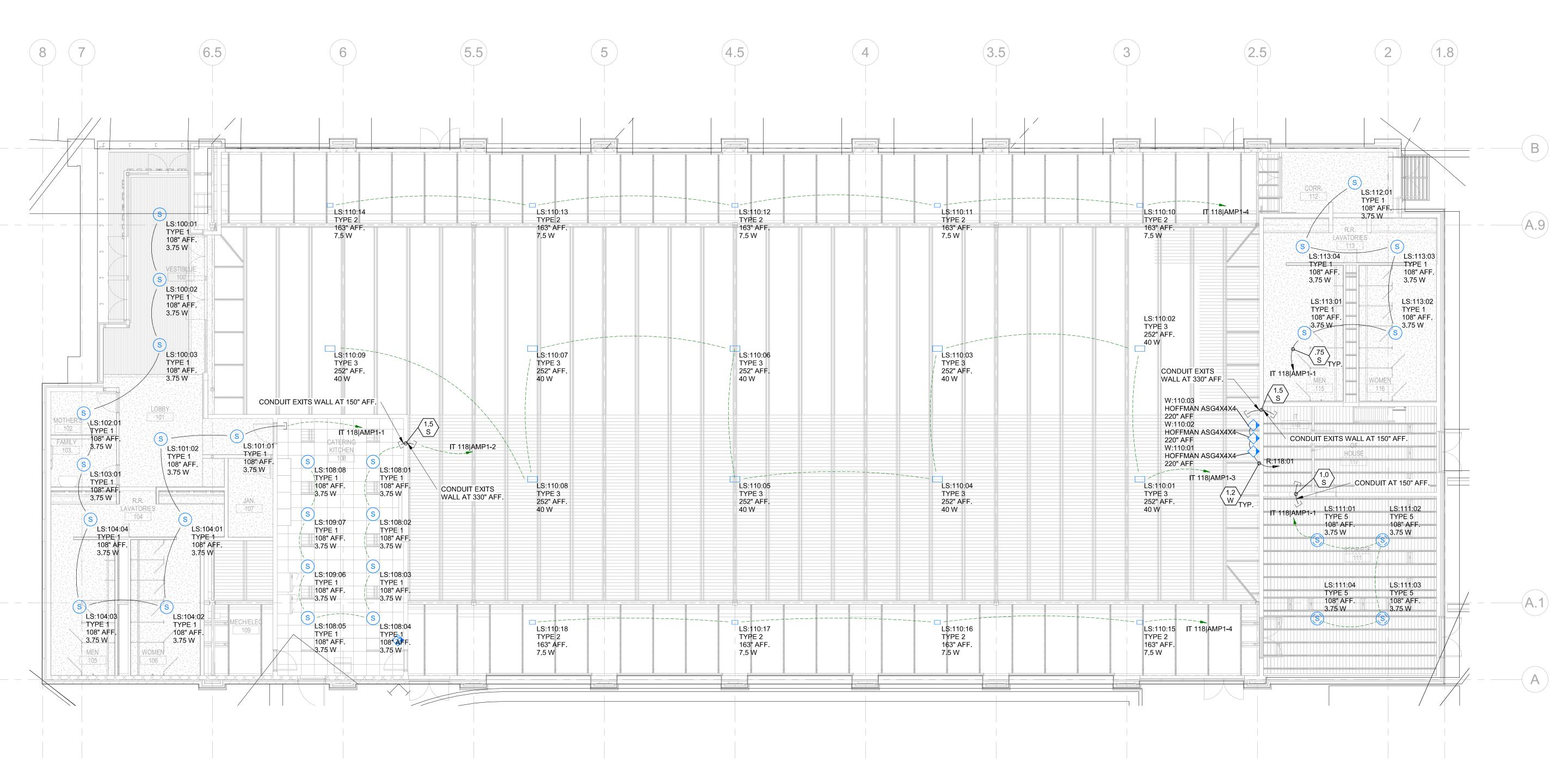
- POWER DRAW = DESIGNED LOAD ON CIRCUIT WITHOUT AMPLIFIER CHANNEL SIZING FACTOR (CONTINUOUS POWER RATING)
- FOR LOW IMPEDANCE: VALUES INDICATED ARE RMS
   FOR 70V: VALUES INDICATED ARE MAXIMUM CIRCUIT LOAD
- WIRE AWG# = ANTICIPATED WIRE GAUGE REQUIRED FOR MAXIMUM ALLOWABLE LINE LOSS OF [1.0dB]; INSTALLATION FACTORS MAY REQUIRE ADJUSTMENTS BY THE CONTRACTOR
  - MINIMUM ALLOWABLE WIRE GAUGE:70V LOUDSPEAKERS: 16AWG
  - LOW IMP LOUDSPEAKERS: 12AWG
  - SUBWOOFERS: 12AWG
  - HEIGHT = MEASURED TO CENTER OF LOUDSPEAKER FACE YAW = HORIZONTAL ORIENTATION IN RELATION TO PLAN NORTH
- PITCH = VERTICAL ORIENTATION
- ROLL = ROTATIONAL ORIENTATION AROUND LOUDSPEAKER AXIS
- ROLL ENCLOSURE 90 = STARTING POSITION OF LOUDSPEAKER IS ROLLED 90 DEGREES
   ROTATE HORN 90 = STARTING POSTION OF HORN IS ROTATED 90 DEGREES IN THE ENCLOSURE

### TO ORIENT LOUDSPEAKERS:

- 1. VERIFY "ROLL ENCLOSURE 90" AND "ROTATE HORN 90" PRIOR TO PROCEEDING
- 2. VIEW LOUDSPEAKERS FROM REAR (FROM PLAN SOUTH VIEWING NORTH) 3. ROTATE LOUDSPEAKER COUNTER CLOCKWISE (POSITIVE DEGREE) OR CLOCKWISE (NEGATIVE DEGREE) TO THE SCHEDULED YAW ORIENTATION
- . TILT LOUDSPEAKER TO SCHEDULED PITCH ORIENTATION
- 5. ROLL LOUDSPEAKER COUNTER CLOCKWISE (POSITIVE DEGREE) OR CLOCKWISE (NEGATIVE DEGREE) TO SCHEDULED ROLL ORIENTATION

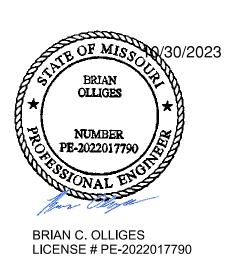
### FINAL ORIENTATION OF LOUDSPEAKERS:

- 1. SHALL BE AT THE DISCRETION OF THE CONSULTANT DURING COMMISSIONING
- 2. CONTRACTOR SHALL PROVIDE MEANS OF ACCESS TO ALL LOUDSPEAKER POSITIONS FOR TESTING, VERIFICATION, REORIENTATION, ETC.
- . MEANS OF ACCESS SHALL INCLUDE MOTORIZED LIFTS, SCAFFOLDING OR OTHER METHOD TO ALLOW FOR SAFE AND TIMELY OBSERVATION AND ADJUSTMENT





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2150003907
MO. CORPORATE NO: E-556D
EXPIRES 10/31/2024



CITY OF LEE'S SUMMIT

LEE'S SUMMIT - MARKET PLAZ

DESCRIPTION DATE

PROJECT NO: 18225R21006

STATUS: PERMIT SET

DATE: 11/01/2023

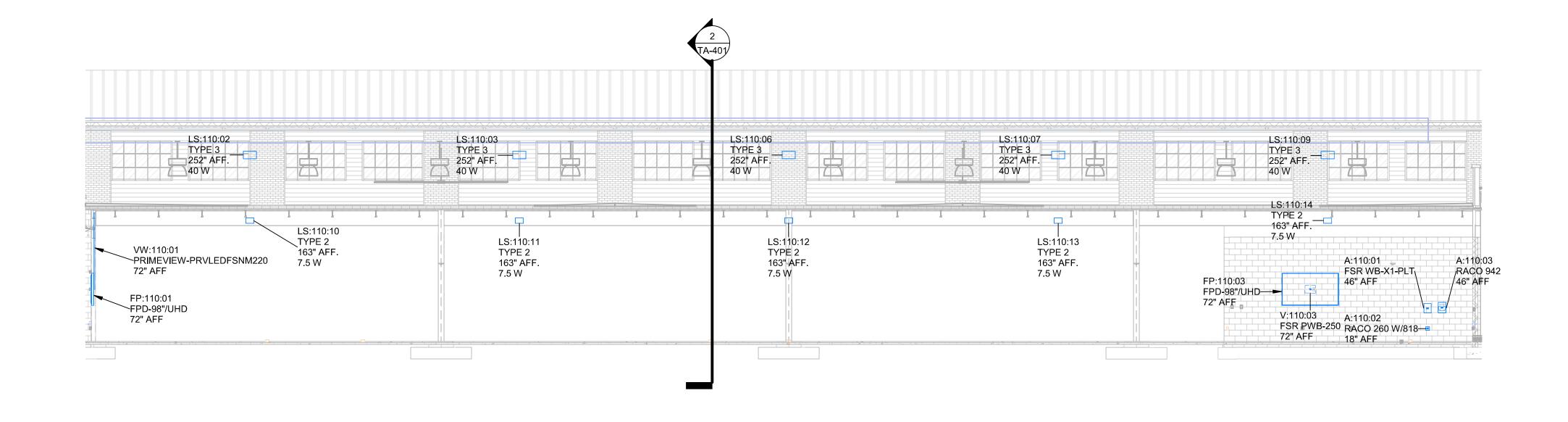
DRAWN BY: JFR

CHECKED BY: JG

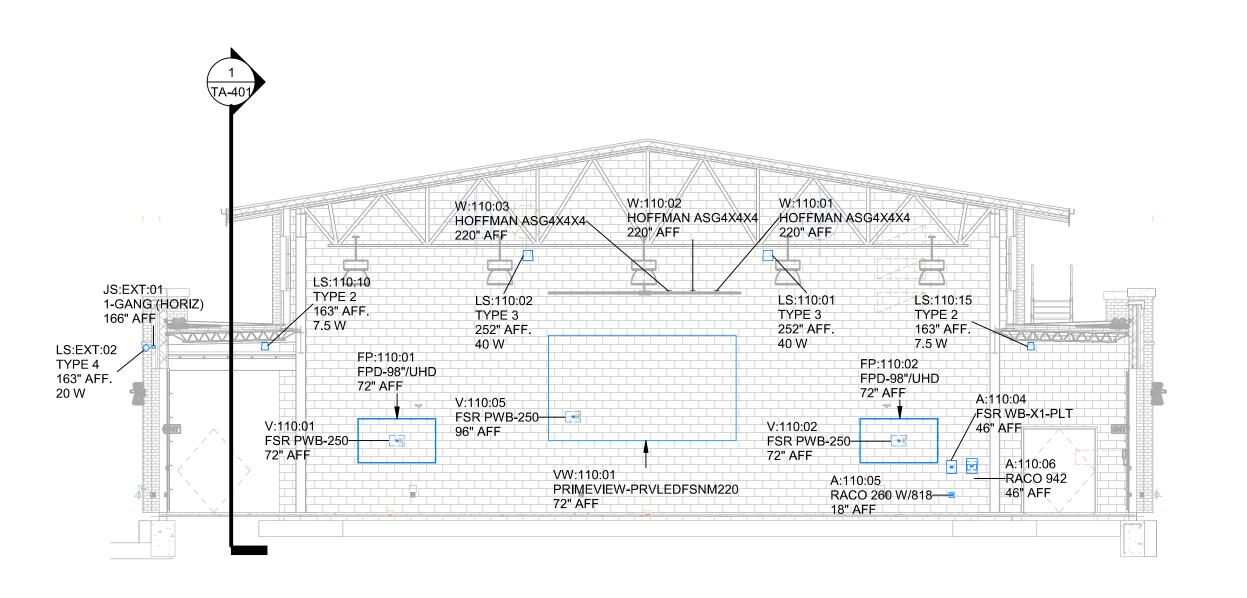
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1 AUDIO-VIDEO LONGITUDINAL SECTION - FARMERS MARKET 1/8" = 1'-0"



2 AUDIO-VIDEO CROSS SECTION - FARMERS MARKET
1/8" = 1'-0"





BRIAN C. OLLIGES LICENSE # PE-2022017790

\_\_\_\_ DESCRIPTION DATE

PERMIT SET

11/01/2023

PROJECT NO:

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AUDIO-VIDEO SECTIONS

TA-401

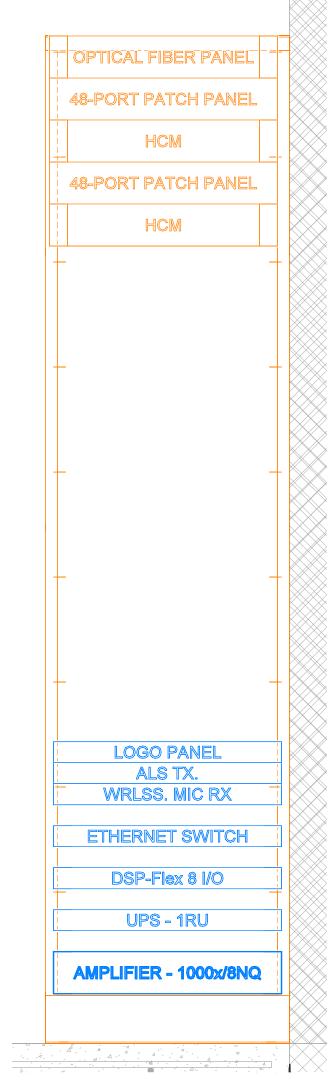
2. COMPLY WITH MANUFACTURER'S MOUNTING REQUIREMENTS AND INSTALL ALL SAFETY CABLES WHERE APPLICABLE PER INSTRUCTIONS. FOR LOUDSPEAKERS MOUNTED TO WALL SURFACES, CEILINGS, OR COLUMN WRAPS, ALL PATHWAYS SHALL BE ROUTED CONCEALED WITH CONNECTION POINT. 3. FOR LOUDSPEAKERS MOUNTED TO WALL SURFACES, CEILINGS, OR A FLUSH MOUNT JUNCTION BOX BEHIND THE LOUDSPEAKER. 4. FOR LOUDSPEAKERS MOUNTED TO OPEN STRUCTURAL ELEMENTS (E.G. EXPOSED PORTIONS OF EXPO HALL), ALL PATHWAYS SHALL BE ROUTED TIGHT AND PARALLEL TO STRUCTURE.

1. DETAIL SHOWN FOR CONCEPT ONLY. PROVIDE SHOP DRAWING OF

FINAL CONFIGURATION WITH APPROVED STRUCTURAL MOUNTING

KEYED NOTES: 1) PROVIDE CONDUIT AS SHOWN ON PLANS TO BACK BOX AT LOUDSPEAKER LOCATION. PROVIDE FLUSH BACK BOX MOUNTED ADJACENT TO, AND CONCEALED BY LOUDSPEAKER AND/OR LOUDSPEAKER MOUNT. PROVIDE PULL STRING.

5 AUDIO-VIDEO ELEVATION - EQUIPMENT RACK NTS



1 FLAT PANEL DISPLAY CONCEPTUAL IN-WALL BOX MOUNTING DETAIL NTS

1. COORDINATE WITH FINAL MOUNT SELECTION PRIOR TO ROUGH-IN. DATA — 2. REFER TO MOUNT MANUFACTURER'S REQUIREMENTS FOR CONNECTIONS HORIZONTAL ADJUSTMENT ALLOWANCES. BACK BOX 3. REFER TO IN-WALL BOX MANUFACTURER'S INSTALLATION MANUAL FOR ROUGH-IN INFORMATION. AC POWER — 4. COORDINATE LOCATION OF IN-WALL BOX TO NOT CONFLICT WITH MAXIMUM TOTAL DEPTH — BACK BOX OTHER DEVICES. FROM FACE OF WALL EDGE OF — DISPLAY /--- FLAT PANEL CENTERLINE OF — DISPLAY SIZE. DISPLAY SEE SCHEDULE FOR SIZE. CENTERLINE OF — || <del>||</del> || ° CENTER OF DISPLAY. REF DISPLAY SCHEDULE(S) FOR MOUNTING BRACKET → MOUNTING BRACKET — WALL, VARIOUS CONSTRUCTION DATA AC POWER — BOTTOM OF DISPLAY. REF TERMINATIONS RECEPTACLE DISPLAY SCHEDULE(S) FOR HÉIGHT **ELEVATION A-A ELEVATION B-B** SECTION

**GENERAL NOTES:** 

MOUNTING METHOD.

CEILING IS IN PLACE.

4 PENDANT LOUDSPEAKER CONCEPTUAL MOUNTING DETAIL NTS

DETAIL SHOWN FOR CONCEPT ONLY. SHOP DRAWING REQUIRED SHOWING FINAL CONFIGURATION WITH APPROVED STRUCTURAL

LOCATION. REFER TO PLANS AND SECTIONS.

**GENERAL NOTES:** 

MOUNTING SOLUTION.

2. COMPLY WITH MANUFACTURER'S MOUNTING REQUIREMENTS AND INSTALL ALL SAFETY CABLES PER INSTRUCTIONS. 3. MOUNTING HEIGHT, SPACING, AND CABLE LENGTH VARIES BY 4. WHERE PENDANT LOUDSPEAKERS ARE FILLING GAPS BETWEEN FLUSH MOUNTED LOUDSPEAKERS IN CEILING CLOUDS, MOUNT BOTTOM OF PENDANT HEIGHT EVEN WITH BOTTOM OF CEILING CLOUD HEIGHT.

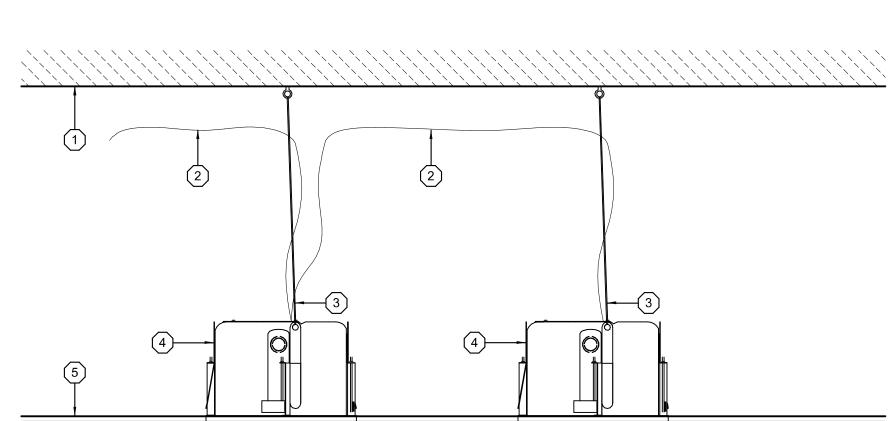
3 PRIMARY SUPPORT CABLE.

4 SAFETY CABLE PER MANUFA PRACTICES. SHOWN LOOSE FOR CLARITY IN THIS PORTION OF THE (5) LOUDSPEAKER CABLE SHOWN LOOSE FOR CLARITY IN THIS PORTION OF 6 COVER SUPPORT CABLES AND WIRING WITH FLEXIBLE TUBING FOR A CLEAN APPEARANCE IN ALL CASES. COLOR AS SELECTED BY THE

(4) SAFETY CABLE PER MANUFACTURER'S RECOMMENDED INSTALLATION

1) CONDUIT AS SHOWN ON PLANS. TYPICALLY TO FIRST LOUDSPEAKER ONLY. ATTACH TO STRUCTURE, STUB DOWN AT LOUDSPEAKER LOCATION TO PROVIDE CLEAN CABLE EXIT. PROVIDE PULL STRING. 2 ALTERNATE CONDUIT STRATEGY SHALL UTILIZE A BOX MOUNTED ADJACENT TO THE LOUDSPEAKER.

KEYED NOTES:



2. DETAIL SHOWN FOR CONCEPT ONLY. SHOP DRAWING REQUIRED SHOWING FINAL CONFIGURATION WITH APPROVED STRUCTURAL

5. LOCATE CONDUIT SUCH THAT WIRE MAY BE PULLED AFTER FINISHED

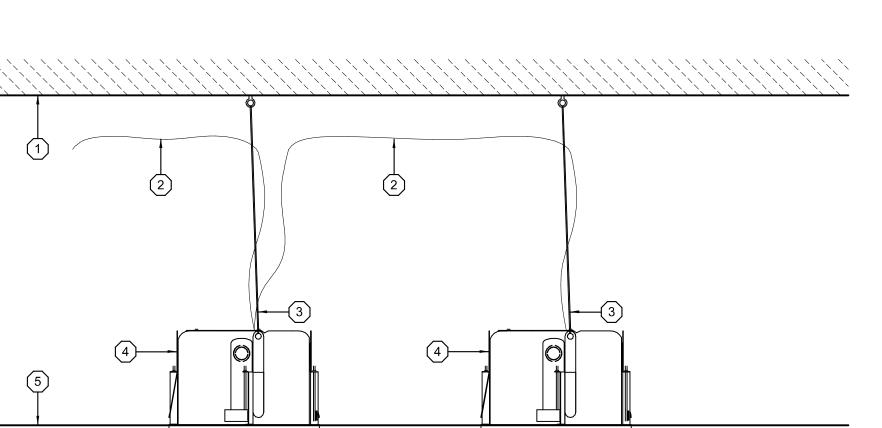
3 CEILING LOUDSPEAKER CONCEPTUAL DETAIL - ACCESSIBLE CEILING NTS

KEYED NOTES:

5 FINISHED CEILING AS SCHEDULED.

3. COMPLY WITH MANUFACTURER'S MOUNTING REQUIREMENTS AND
INSTALL ALL SAFETY CABLES PER INSTRUCTIONS.

4. MOUNTING HEIGHT, SPACING, AND CABLE/CONDUIT LENGTH VARIES BY
LOCATION. REFER TO DRAWINGS AND SPECS FOR ADDITIONAL INFORMATION.



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2 SURFACE LOUDSPEAKER CONCEPTUAL MOUNTING DETAIL NTS

**GENERAL NOTES:** 

v1.00

(2) CABLE PATHWAY AS SHOWN ON PLANS. ATTACH TO STRUCTURE.

(3) SAFETY CABLE PER MANUFACTURER'S RECOMMENDED INSTALLATION PRACTICES.

v1.00

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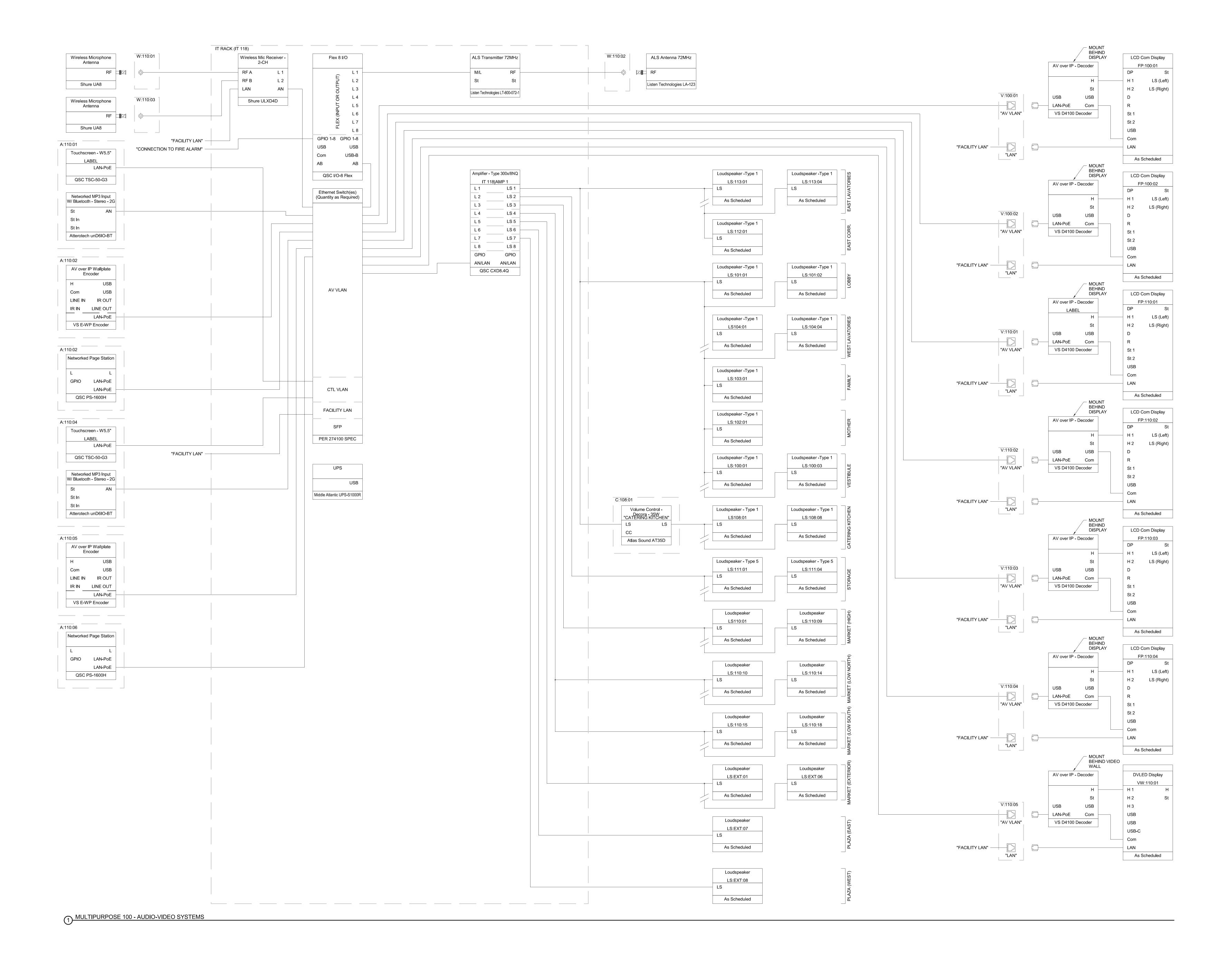
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AUDIO-VIDEO
SIGNAL FLOWS

TA-701



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Sheet List - Technology

TECHNOLOGY GENERAL NOTES AND LEGEND

TECHNOLOGY - MDF ROOM ENLARGED PLAN AND

TECHNOLOGY SITE PLAN

**TECHNOLOGY DETAILS - 1** 

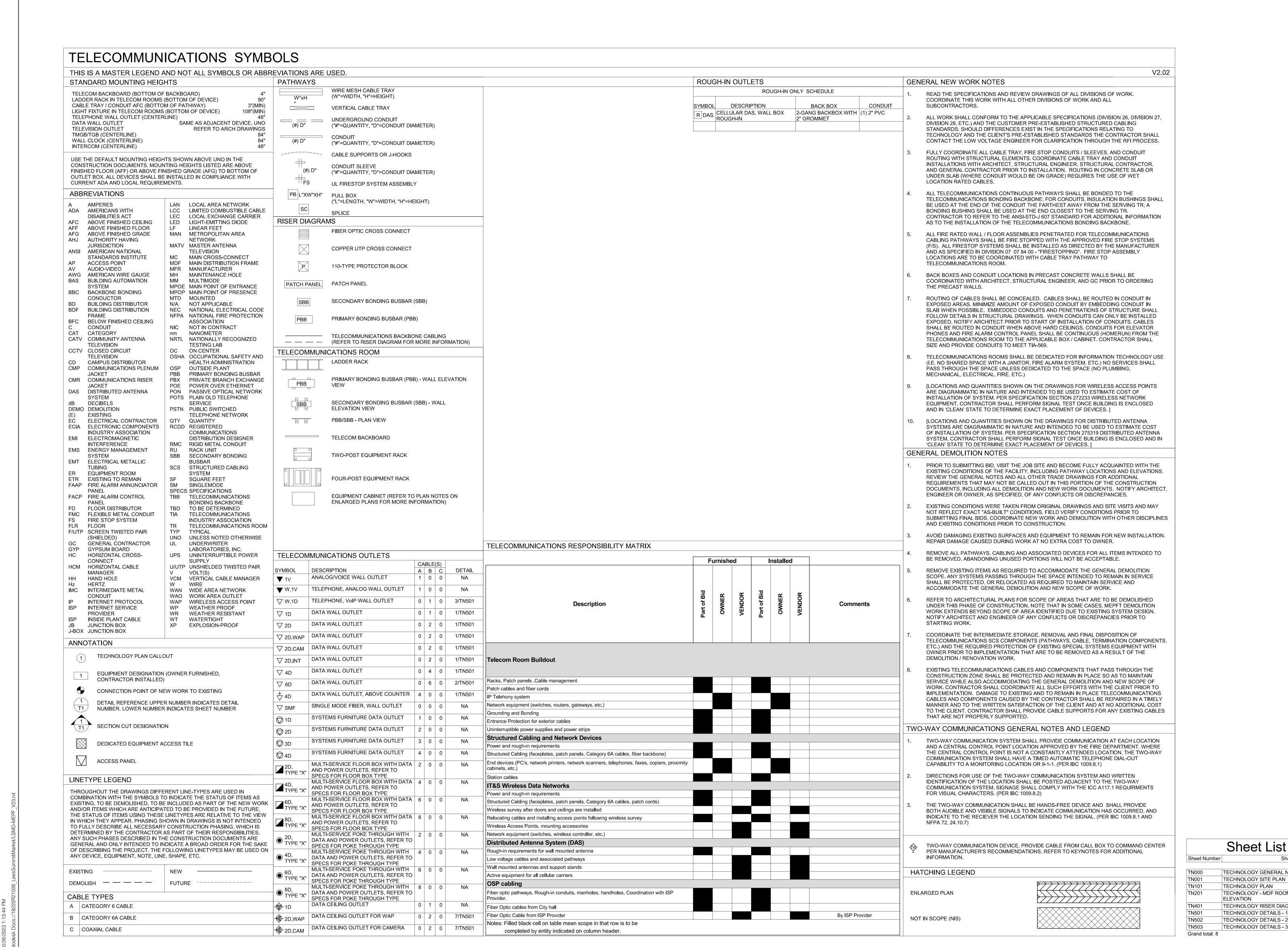
TECHNOLOGY DETAILS - 2

TECHNOLOGY RISER DIAGRAM

TECHNOLOGY PLAN

Sheet Order

AND LEGEND



**TECHNOLOGY PLAN NOTES:** 

T1 FOR WIRELESS ACCESS POINT. COORDINATE EXACT

LOCATION WITH VENDOR. T2 FOR SECURITY CAMERA. COORDINATE EXACT LOCATION

WITH SECURITY SYSTEM VENDOR. T3 FOR SECURITY INTERCOM. COORDINATE EXACT LOCATION

WITH SECURITY SYSTEM VENDOR. T12 PROVIDE 4X'4X'4' COMMUNICATION MAINTENANCE HOLE FOR ISP ENTRY CABLING AS PER DETAIL 1 ON SHEET TN503.FOR

SPECIFICATION REFER TO DIV 27 SECTION 270543. T13 PROVIDE 2X'2X'2' COMMUNICATION HAND HOLE FOR FIBER CONNECTION WITH CITY HALL AND EXTERIOR WAP AND CAMERAS DATA CABLING AS PER DETAIL 3 ON SHEET TN503.FOR SPECIFICATION REFER TO DIV 27 SECTION

T14 RUN DATA CABLES FOR WAP AND CAMERAS TO THE IDF THROUGH THE NEAREST HANDHOLE / MAINTENANCE HOLE. PROVIDE MIN (1) 1" CONDUIT FOR (2) DATA CABLES AND 1-1/4" CONDUIT FOR (4) DATA CABLÉS.

T15 COORDINATE FINAL LOCATION OF HANDHOLE AND ROUTING OF FIBER CABLE CONNECTED TO THE CITY HALL WITH OWNER (ITS). T16 (1) 24 STRANDS SINGLE MODE FIBER CABLE FOR CONNECTION WITH CITY HALL , (1) 4" CONDUIT FOR DATA CABLES SERVING WAP AND CAMERAS AND (1) 4" SPARE

T17 COORDINATE FINAL ROUTING OF (3)4" CONDUITS FOR ISP FIBER CABLES WITH ISP PROVIDER. T18 FOR OSP UNDERGROUND CONDUIT INSTALLATION REFER

TO DETAIL 2 ON SHEET TN503. T26 SEAL ALL TELECOM PATHWAY PENETRATIONS OF CEILING AND WALLS, BOTH BELOW AND ABOVE CEILING, AIRTIGHT. COORDINATE WITH OTHER TRADES TO ENSURE ALL PENETRATIONS OF WALLS AND CEILINGS ARE SEALED. SEE

T27 SPACE RESERVED FOR FUTURE DAS SYSTEM. PROVIDE PULL BOX FOR 2" CONDUITS FOR DAS ANTENNAS SHOWN

ON PLAN TN001. T28 PROVIDE 2" CONDUIT FOR FUTURE DAS ANTENNA FROM

PULL BOX AT MECH/ELEC ROOM # 109. T29 LIMIT OF MDF ROOM. T30 LOCATION OF DEMARCATION POINT IN MECH/ELEC ROOM

T31 PROVIDE 2X'2X'2' COMMUNICATION HAND HOLE FOR EXTERIOR WAP AND CAMERAS DATA CABLING AS PER DETAIL 3 ON SHEET TN503.FOR SPECIFICATION REFER TO

T32 PROVIDE PULL BOX AT HIGH LEVEL. REFER TO DETAIL 6 ON SHEET TN502. CONDUIT PATH SHOULD NOT EXCEED 285

T33 PROVIDE LABELING FOR STRUCTURED CABLING AS PER DETAIL 6 ON SHEET TN501.

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TECHNOLOGY SITE PLAN

T1 FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH VENDOR.

T2 FOR SECURITY CAMERA. COORDINATE EXACT LOCATION WITH SECURITY SYSTEM VENDOR. T5 PROVIDE TELECOMMUNICATIONS BACKBOARD. GRADE A/C

3/4" PLYWOOD BACKBOARD FIRE RATED STARTING AT 4" AFF AND EXTEND UPWARDS 8'-0" ON ALL WALLS AS INDICATED ON DRAWINGS. THE A SIDE SHALL BE EXPOSED TO THE INTERIOR OF THE ROOM AND THE C SIDE PLACED AGAINST THE BUILDING STRUCTURE. SEE TELECOMMUNICATIONS SPECS FOR FURTHER DETAILS.

T8 PROVIDE TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB) MOUNTED AT 7'-0" AFF. SEE TELECOMMUNICATIONS DIVISION 27 SPECIFICATIONS, DETAIL 4 ON SHEET TN502 AND GROUNDING AND BONDING RISER DIAGRAM ON SHEET TN401 FOR FURTHER DETAILS. T9 SPACE RESERVED FOR ACCESS CONTROL EQUIPMENT.

COORDINATE OUTLET LOCATION WITH SECURITY EQUIPMENT PRIOR TO ROUGH-IN. SEE TY-SERIES SHEETS FOR FURTHER DETAILS. T10 PROVIDE WALL MOUNTED PIVOT CABINET TO SERVE PLAZA

AREA DATA OUTLETS . FOR SPECIFICATION REFER TO SECTION 271100. T11 SPACE RESERVED FOR EQUIPMENT BY INTERNET SERVICE

T19 (1)4",(1) 3" AND (1) 2" EMT CONDUITS RUN ABOVE FALSE CEILING . REFER TO TELECOMMUNICATIONS BACKBONE

DIAGRAM ON SHEET TN401. COORDINATE WITH OTHER SERVICES. T27 SPACE RESERVED FOR FUTURE DAS SYSTEM. PROVIDE

PULL BOX FOR 2" CONDUITS FOR DAS ANTENNAS SHOWN ON PLAN TN001. T33 PROVIDE LABELING FOR STRUCTURED CABLING AS PER

DETAIL 6 ON SHEET TN501.

T34 FOR CEILING COMMUNICATION OUTLET INSTALLATION REFER TO DETAIL 4 & 8 ON SHEET TN501.

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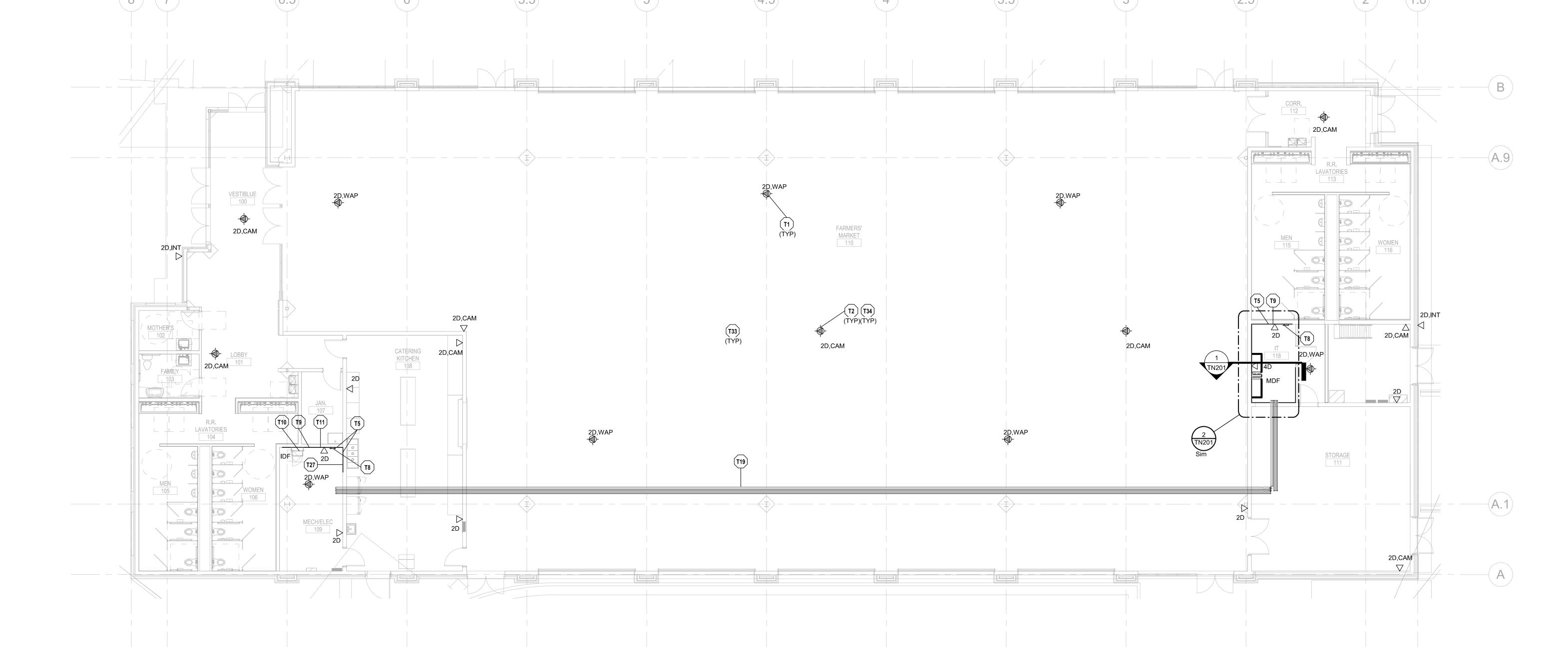
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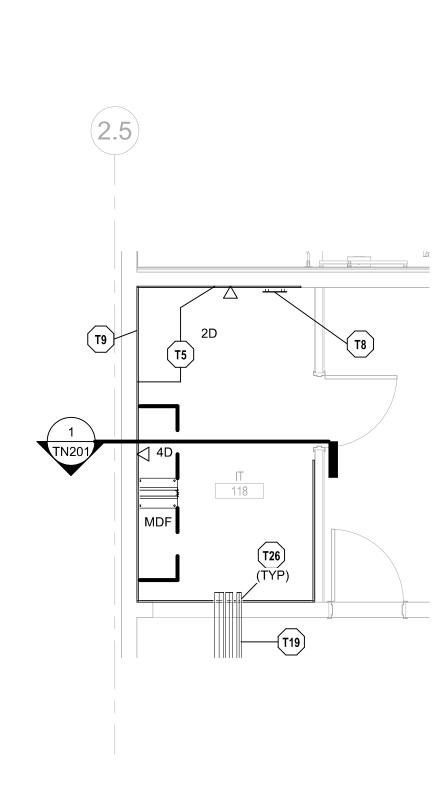
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PLAN NORTH

KEYPLAN 🔨

TECHNOLOGY PLAN





T23

T20

T20

T21

GOFTON, FINES PANEL

T21

GOFTON, FINES PANEL

T22

GOFTON MICH PANEL

T22

GOFTON MICH PANEL

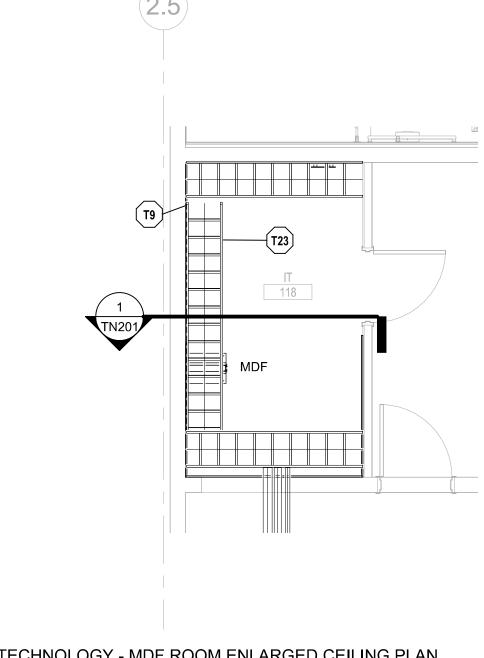
T23

T33

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T33

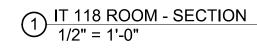
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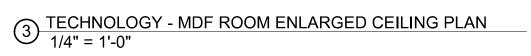


2 TECHNOLOGY - MDF ROOM ENLARGED PLAN
1/4" = 1'-0"

Device - Wall - Data: 4D Device - Wall - Data: 2D MDF: 21

	Data Device Schedule		
Family and Type	TELECOMMUNICATIONS ZONE	NUMBER OF CABLE A	NUMBER OF CABLE
Device - Wall - Data: 2D		0	2
Device - Wall - Data: 2D,CAM		0	2
: 2		0	4
Device - Ceiling - Data: 2D, WAP	IDF	0	2
Device - Wall - Data: 2D	IDF	0	2
Device - Wall - Data: 2D	IDF	0	2
Device - Wall - Data: 2D	IDF	0	2
Device - Wall - Data: 2D,CAMERA	IDF	0	2
Device - Wall - Data: 2D,WAP	IDF	0	2
Device - Wall - Data: 2D,WAP	IDF	0	2
Device - Wall - Data: 2D,WAF  Device - Wall - Data: 2D,CAMERA	IDF	0	2
Device - Wall - Data: 2D,CAMERA  Device - Wall - Data: 2D,CAMERA	IDF	0	2
Device - Wall - Data: 2D,CAM  Device - Wall - Data: 2D,CAM	IDF	0	2
Device - Wall - Data: 2D,CAM  Device - Wall - Data: 2D,CAM	IDF	0	2
Device - Wall - Data: 2D,CAM	IDF	0	2
Device - Wall - Data: 2D,CAM	IDF	0	2
Device - Wall - Data: 2D,CAM  Device - Wall - Data: 2D,CAM	IDF	0	2
•	IDF	0	2
Device - Ceiling - Data: 2D, CAM			2
Device - Ceiling - Data: 2D, CAM	IDF	0	
Device - Wall - Data: 2D,INT	IDF	0	2
Device - Wall - Data: 2D,CAM	IDF	0	2
Device - Wall - Data: 2D	IDF	0	2
Device - Wall - Data: 2D,WAP	IDF	0	2
Device - Wall - Data: 2D,WAP	IDF	0	2
IDF: 21		0	42
Device - Ceiling - Data: 2D, WAP	MDF	0	2
Device - Ceiling - Data: 2D, WAP	MDF	0	2
Device - Ceiling - Data: 2D, WAP	MDF	0	2
Device - Ceiling - Data: 2D, WAP	MDF	0	2
Device - Ceiling - Data: 2D, WAP	MDF	0	2
Device - Ceiling - Data: 2D, WAP	MDF	0	2
Device - Wall - Data: 2D	MDF	0	2
Device - Wall - Data: 2D,WAP	MDF	0	2
Device - Wall - Data: 2D,WAP	MDF	0	2
Device - Ceiling - Data: 2D, CAM	MDF	0	2
Device - Ceiling - Data: 2D, CAM	MDF	0	2
Device - Wall - Data: 2D,CAM	MDF	0	2
Device - Wall - Data: 2D,CAM	MDF	0	2
Device - Wall - Data: 2D,CAM	MDF	0	2
Device - Wall - Data: 2D,CAM	MDF	0	2
Device - Wall - Data: 2D,CAM	MDF	0	2
Device - Wall - Data: 2D,CAM	MDF	0	2
Device - Ceiling - Data: 2D, CAM	MDF	0	2
Device - Wall - Data: 2D, INT	MDF	0	2
Device - Wall - Data: 2D,IN1	MDF	0	4





### **TECHNOLOGY PLAN NOTES:**

- T5 PROVIDE TELECOMMUNICATIONS BACKBOARD. GRADE A/C 3/4" PLYWOOD BACKBOARD FIRE RATED STARTING AT 4" AFF AND EXTEND UPWARDS 8'-0" ON ALL WALLS AS INDICATED ON DRAWINGS. THE A SIDE SHALL BE EXPOSED TO THE INTERIOR OF THE ROOM AND THE C SIDE PLACED AGAINST THE BUILDING STRUCTURE. SEE TELECOMMUNICATIONS SPECS FOR FURTHER DETAILS.
- INTERIOR OF THE ROOM AND THE C SIDE PLACED AGAINST
  THE BUILDING STRUCTURE. SEE TELECOMMUNICATIONS
  SPECS FOR FURTHER DETAILS.

  T8 PROVIDE TELECOMMUNICATIONS SECONDARY BONDING
  BUSBAR (SBB) MOUNTED AT 7'-0" AFF. SEE
  TELECOMMUNICATIONS DIVISION 27 SPECIFICATIONS,
  DETAIL 4 ON SHEET TN502 AND GROUNDING AND BONDING
- RISER DIAGRAM ON SHEET TN401 FOR FURTHER DETAILS.

  T9 SPACE RESERVED FOR ACCESS CONTROL EQUIPMENT.
  COORDINATE OUTLET LOCATION WITH SECURITY
  EQUIPMENT PRIOR TO ROUGH-IN. SEE TY-SERIES SHEETS
  FOR FURTHER DETAILS.
- FOR FURTHER DETAILS.

  T19 (1)4",(1) 3" AND (1) 2" EMT CONDUITS RUN ABOVE FALSE
  CEILING . REFER TO TELECOMMUNICATIONS BACKBONE
  DIAGRAM ON SHEET TN401. COORDINATE WITH OTHER
  SERVICES.
- T20 SLIDING RACK MOUNTED ENCLOSURE FOR FIBER CABLE ORGANIZING TO CROSSCONECT BETWEEN BACKBONE CABLE AND ACTIVE EQUIPMENT. REFER TO SECTION 271100 AND DETAIL 2 ON SHEET TN502.
- T21 2RU 48 PORT PATCH PANEL. REFER TO SECTION 271100 AND DETAIL 5 ON SHEET TN501..
   T22 2RU HORIZONTAL CABLE MANAGER BETWEEN PATCH PANEL
- AND ACTIVE EQUIPMENT.

  T23 PROVIDE 18" WIDE HORIZONTAL LADDER RACK WITH 9"
  RUNG SPACING. SEE TELECOMMUNICATIONS DIVISION 27
  SPECIFICATIONS AND DETAIL 7 ON SHEET TN502 FOR
- FURTHER DETAILS.

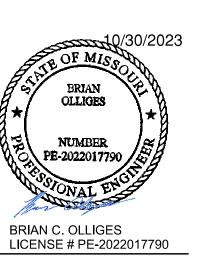
  T24 PROVIDE 18" WIDE LADDER VERTICAL RACK WITH 9" RUNG SPACING. SEE TELECOMMUNICATIONS DIVISION 27
- SPACING. SEE TELECOMMUNICATIONS DIVISION 27
  SPECIFICATIONS FOR FURTHER DETAILS.

  T26 SEAL ALL TELECOM PATHWAY PENETRATIONS OF CEILING
  AND WALLS, BOTH BELOW AND ABOVE CEILING, AIRTIGHT.
  COORDINATE WITH OTHER TRADES TO ENSURE ALL
  PENETRATIONS OF WALLS AND CEILINGS ARE SEALED. SEE
- DETAIL 1 & 3 ON SHEET TN502.

  T33 PROVIDE LABELING FOR STRUCTURED CABLING AS PER DETAIL 6 ON SHEET TN501.









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TECHNOLOGY -MDF ROOM ENLARGED PLAN AND ELEVATION





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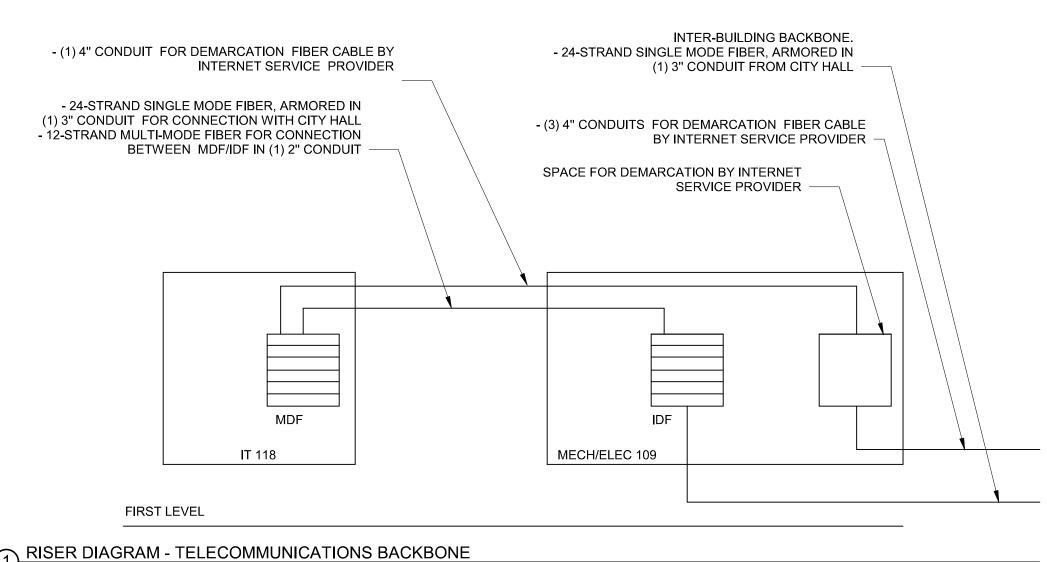
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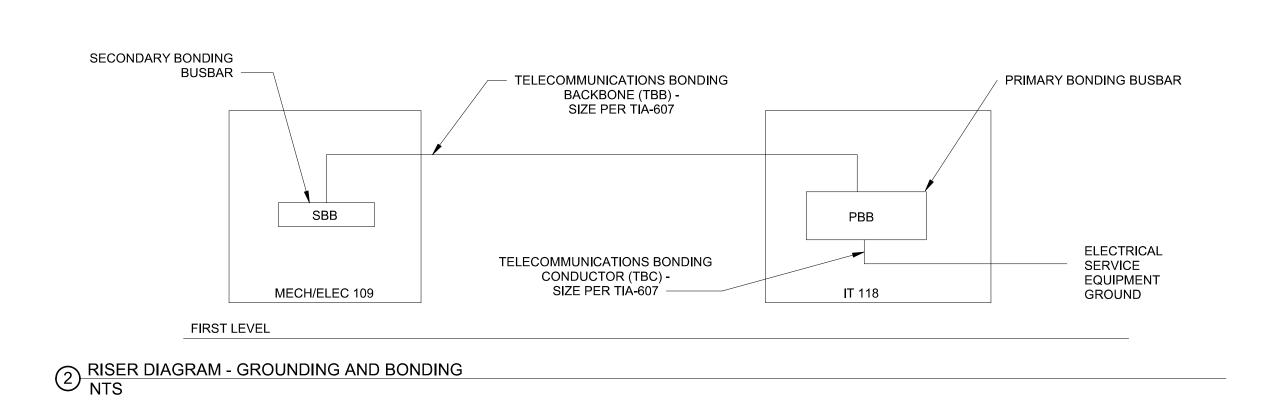
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TECHNOLOGY RISER DIAGRAM

TN401





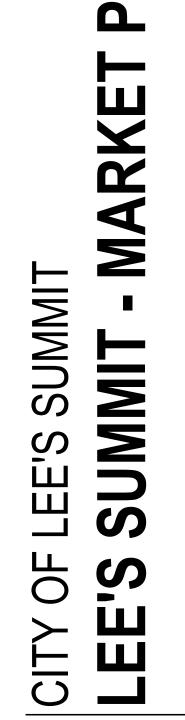
1 RISER DIAGRAM - TELECOMMUNICATIONS BACKBONE NTS

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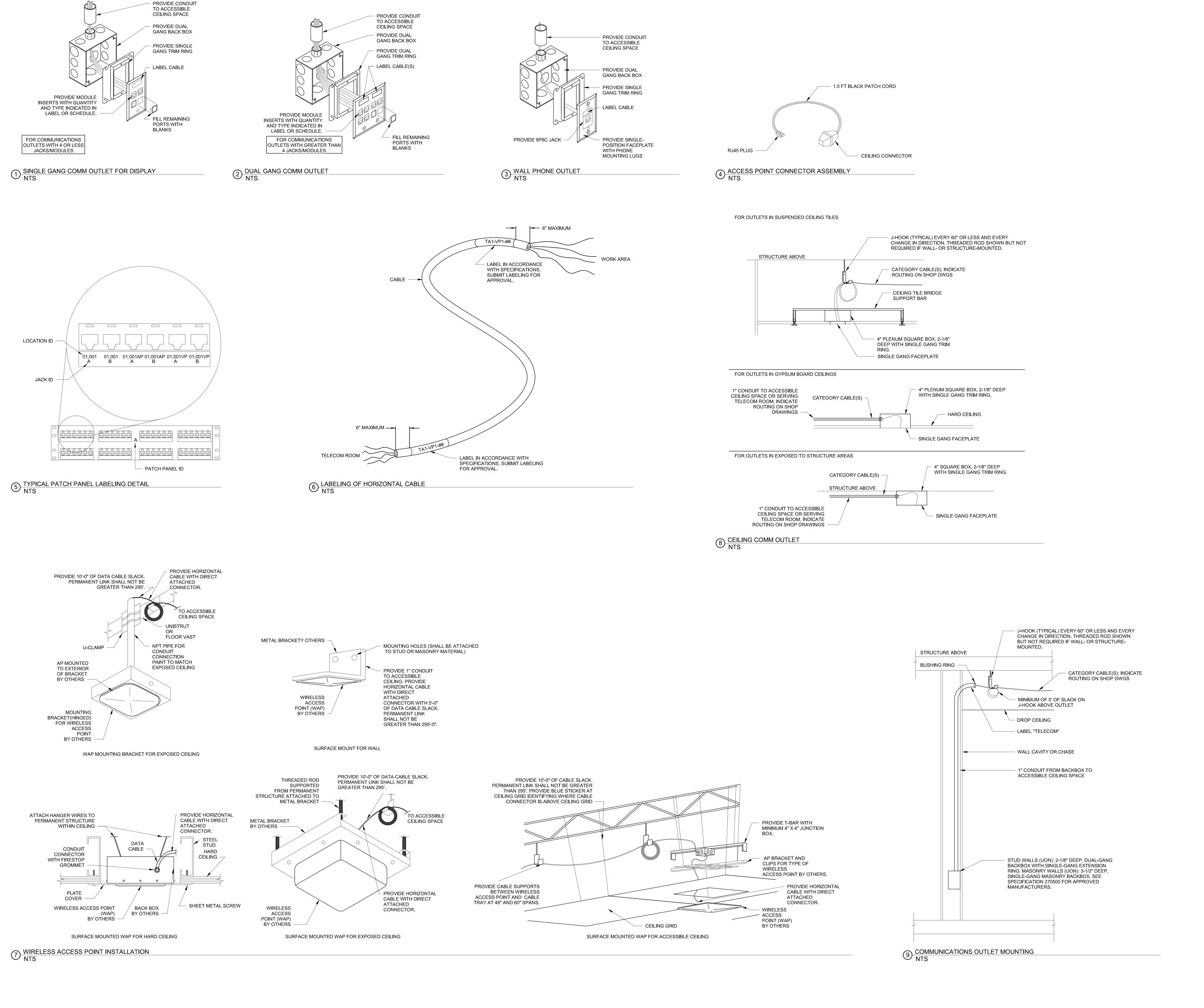


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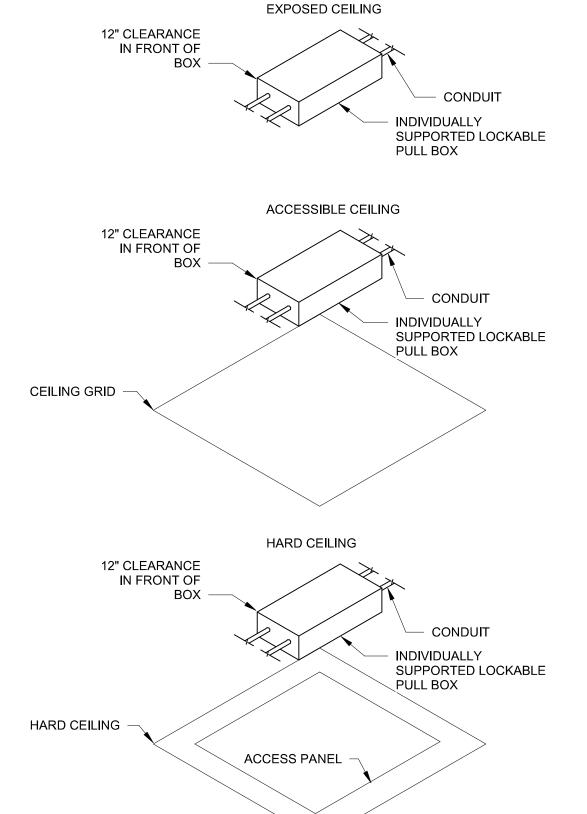
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**TECHNOLOGY** 

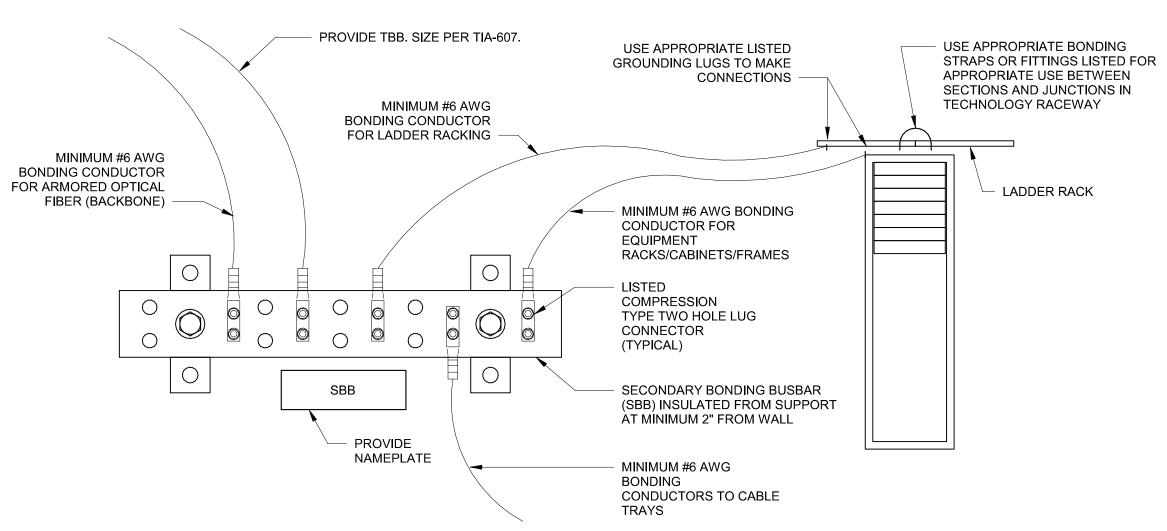
DETAILS - 1

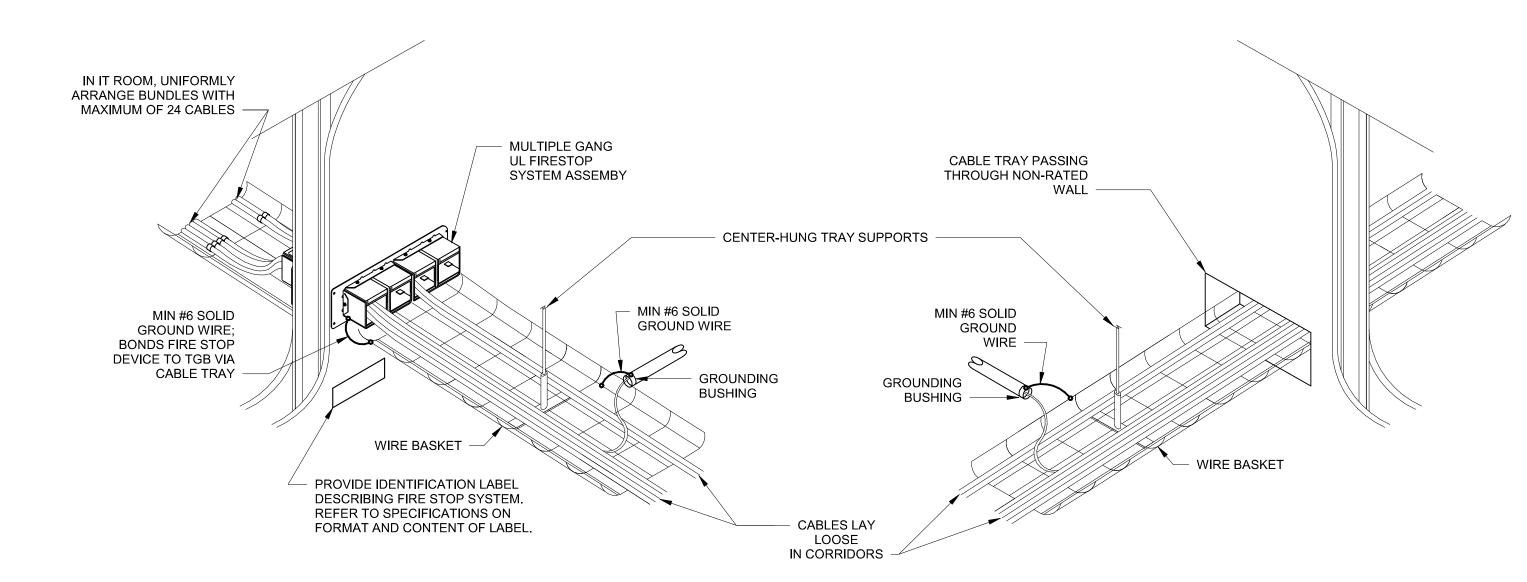


HARD CEILING 12" CLEARANCE IN FRONT OF PULL BOX HARD CEILING -ACCESS PANEL 6 PULL BOX NTS



4 SBB CONNECTIONS DIAGRAM NTS

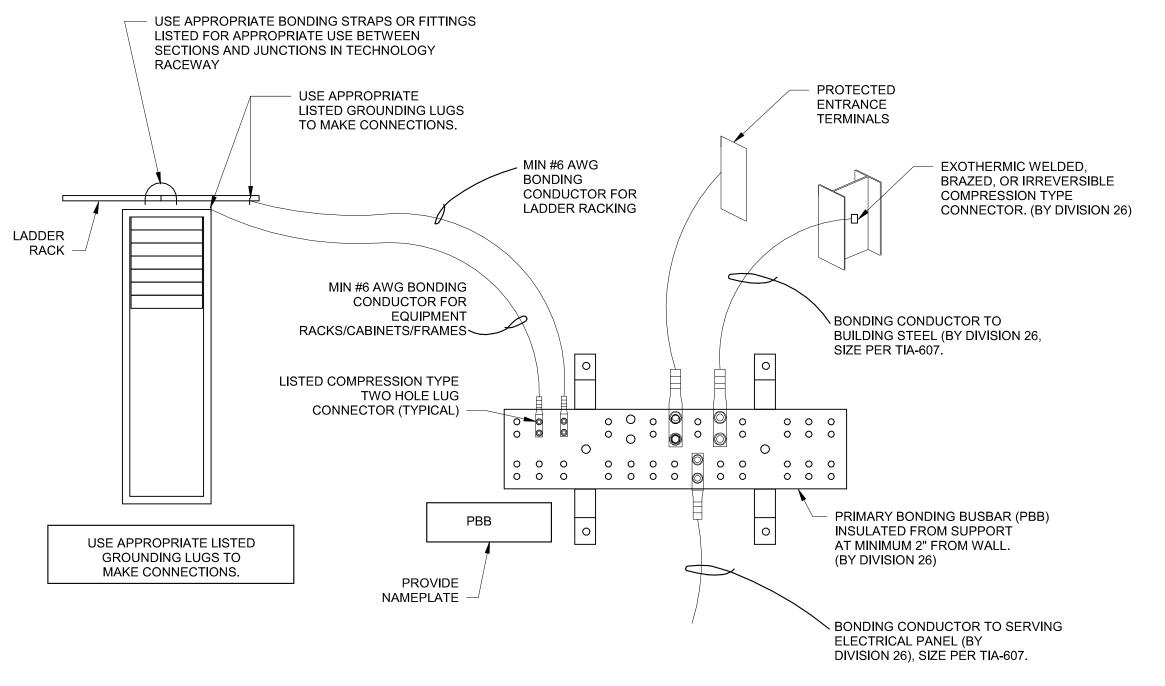




7 TELECOM ROOM TRAY ALIGNMENT, BEND RADIUS TREATMENT NTS

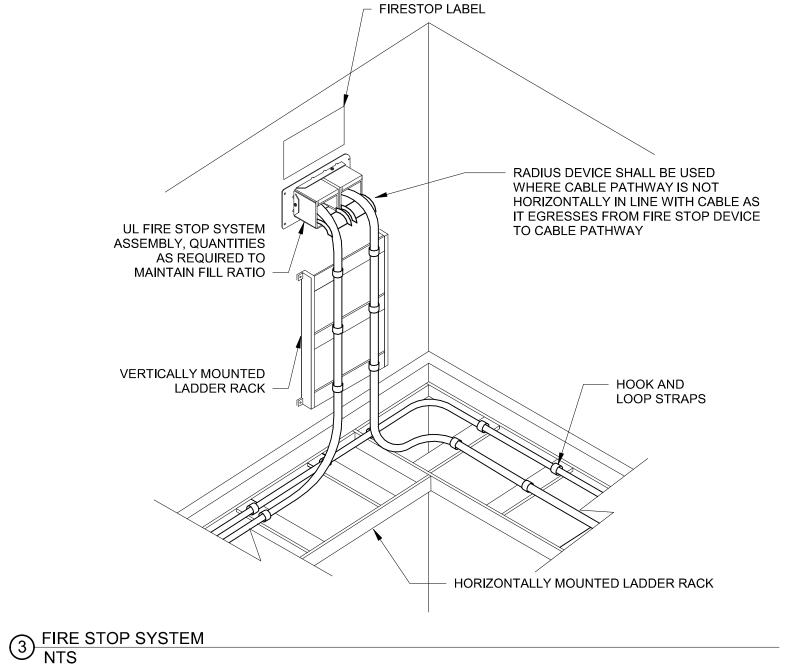
SEPARATE VOICE AND DATA CABLES IN TRAY DATA CABLING CABLE RADIUS DROP OUT OF 24 CABLES PER BUNDLE (TYP) — CABLERADIUS DROP OUT VELCRO STRAP (TYP) -COPPER BACKBONE VERTICAL MANAGER FRONT AND BACK (TYP)

5 PBB CONNECTIONS DIAGRAM NTS



CONNECTOR MOUNTING EAR 2 FIBER PANEL NTS

FIBER PANEL





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TECHNOLOGY DETAILS - 2



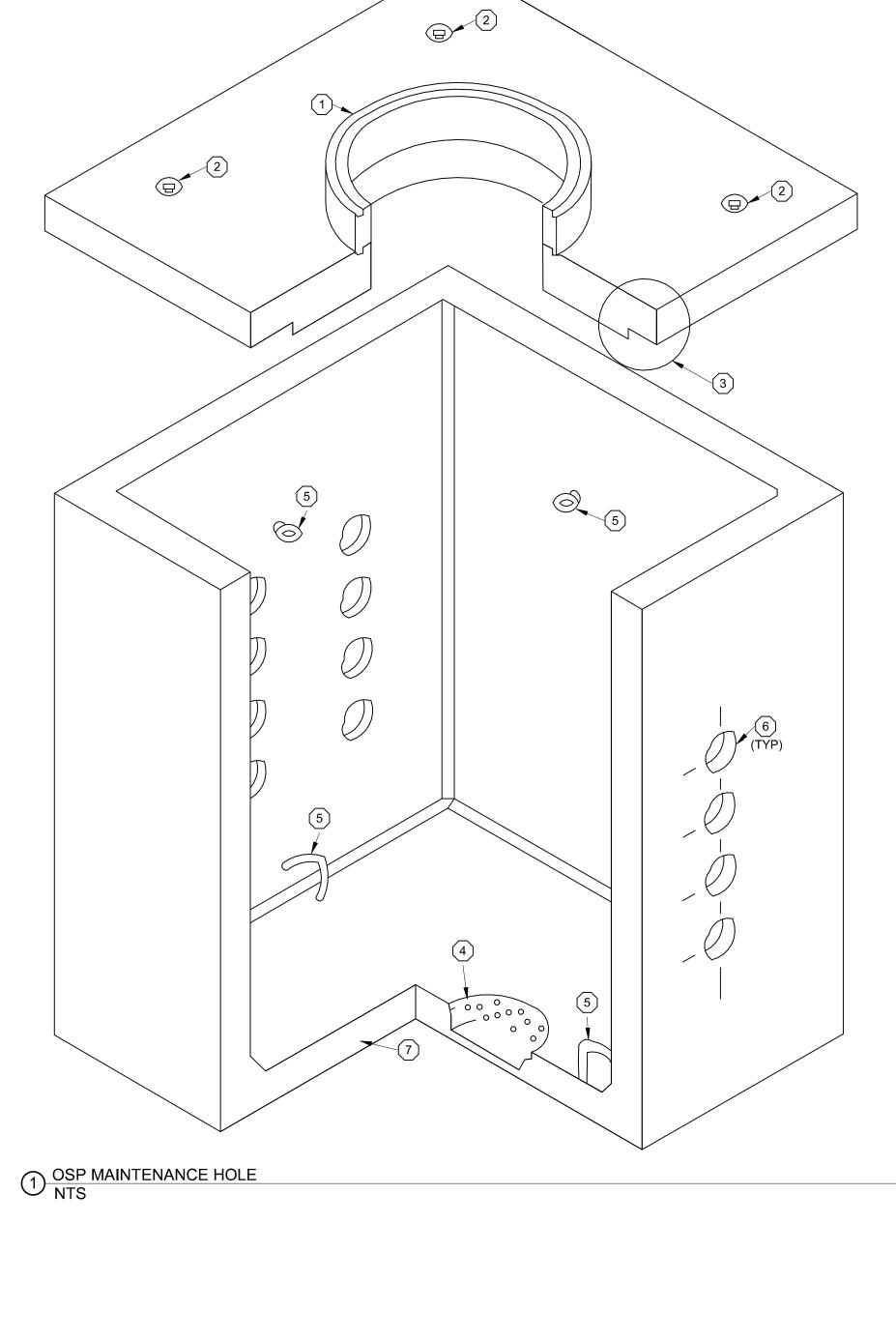






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DETAILS - 3

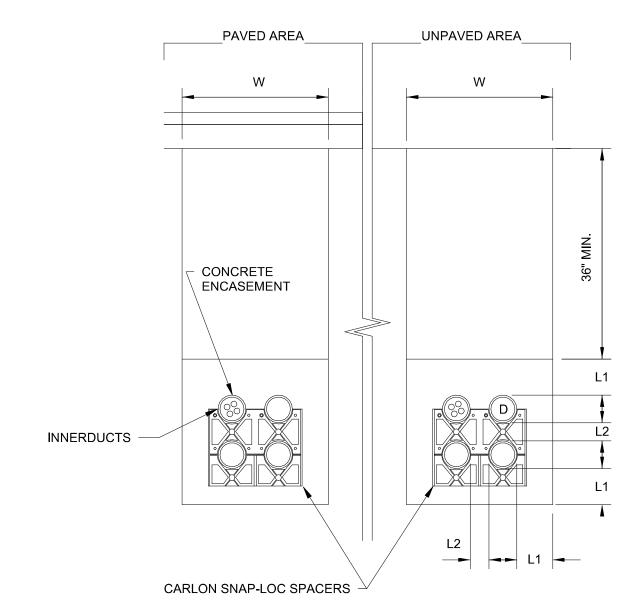


### **GENERAL NOTES:**

- 1. WITHIN VAULT, PROVIDE OPTICAL FIBER ALLOWED 25'-0" OF SLACK IN THE FIGURE-8 SERVICE LOOP. THIS IS TO FACILITATE FUTURE MAINTENANCE. DO NOT LOOP CABLE IN A CIRCULAR FORMAT AS THE CABLE CANNOT BE LIFTED BY INSTALLER IF CIRCULAR PATTERN WITHOUT POSSIBLE
- 2. TELECOMMUNICATIONS VAULTS SHALL NOT BE SHARED WITH ELECTRICAL INSTALLATIONS
- 3. EACH NEW VAULT SHALL BE EQUIPPED WITH A LID, PULL IRONS, CABLE RACKS, AND HOOKS DESIGNED FOR USE IN TELECOMMUNICATIONS SYSTEMS. CABLE HOOKS SHALL BE PLACED TO SUPPORT THE WEIGHT OF THE CABLE.

### PLAN NOTES:

- 1) PROVIDE CAST IRON COVER AND RING. ADJUST STUDS WITH SLOTTED HEAD FOR INSTALLING INTO COVER COLLAR. PROVIDE MAINTENANCE HOLE COVER COLLAR FOR H-20 BRIDGE LOAD. PROVIDE MINIMUM 6" PRECAST CONCRETE GRADE RING. PROVIDE LOCKDOWN SECURITY DEVICE OR EQUIVALENT.
- 2 PROVIDE LIFTING ANCHORS.
- 3 NOTCH ON UNDERSIDE OF TOP SLAB TO ACCEPT BASE
- PROVIDE 12" X 4" DEEP SUMP AT MAINTENANCE HOLE BOTTOM.
- 5 PROVIDE PULLING EYE. PULLING EYE SHALL BE RATED FOR A MINIMUM OF 10,000 LBS.
- (6) TELECOMMUNICATIONS CONDUIT DUCTS SHALL ENTER HAND HOLE FROM SIDE WALL AS INDICATED. SEAL ALL CONDUIT/DUCT ENTRANCES WITH CONDUIT/DUCT MANUFACTURER RECOMMENDED TERMINATION FITTINGS. GROUT INSIDE AND OUTSIDE OF MAINTENANCE HOLE TO SEAL DUCT/HANDHOLE GAP.
- 7 PROVIDE SOLID BOTTOM.



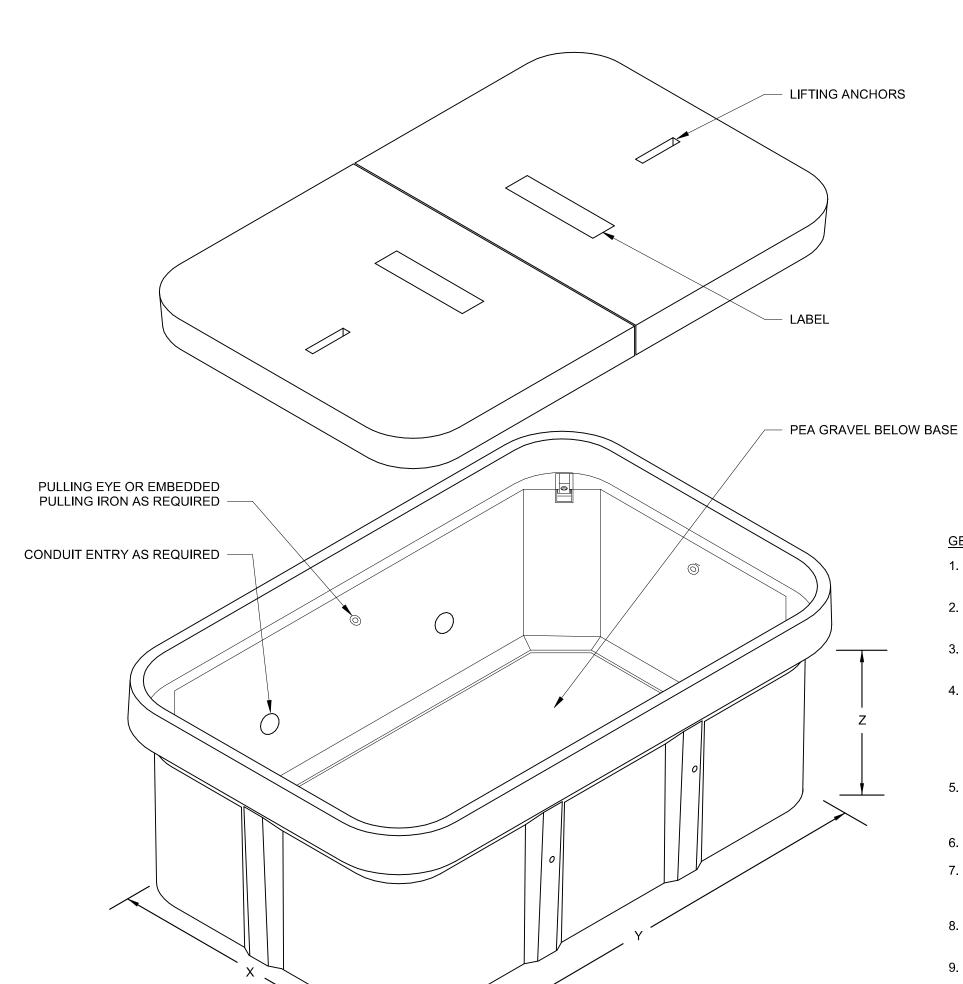
### DETAIL SPECIFIC NOTES:

- 1. ALL DIMENSIONS APPLY TO BOTH PAVED AND UNPAVED AREAS, BUT ARE ONLY SHOWN FOR CLARITY.
- 2. ALL CONSTRUCTION AND MATERIALS SHALL CONFIRM TO THE TECHNICAL SPECIFICATIONS THAT HAVE BEEN PROVIDED.
- 3. PROVIDE WARNING TAPE. TAPE SHALL BE POLYETHYLENE PLASTIC TAPE WITH A MINIMUM WIDTH OF 6 INCHES. IT SHALL BE IMPRINTED WITH THE WORDS "WARNING-TELECOMMUNICATIONS CABLE BELOW". THE TEXT SHALL BE AT NOT MORE THAN 48 INCH INTERVALS. TAPE MUST BE EASILY DETECTABLE BY A METAL DETECTOR. IT SHALL BE INSTALLED 12 INCHES TO 18 INCHES ABOVE THE HIGHEST INSTALLED DUCT.
- 4. PROVIDE PERMANENT TRACER WIRE. THE TRACER WIRE SHALL BE PLACED CENTRALLY OVER THE CONDUIT FORMATION.
- 5. CONDUITS SHALL BE PLACED IN CARLON SNAP-LOC SPACERS TO MANUFACTURER'S STANDARD SPECIFICATIONS. MAXIMUM SPACER INTERVAL SHALL NOT EXCEED 10 FEET.
- 6. ALL CONDUITS SHALL BE MANDRELLED FOLLOWING INSTALLATION.
- 7. PROVIDE A PULL ROPE/TAPE WITHIN EACH CONDUIT AND INNER-DUCT. THE ROPE/TAPE SHALL HAVE A MINIMUM TENSILE STRENGTH OF 890 NEWTONS.
- 8. ALL CONDUITS SHALL BE PLUGGED WITH UNIVERSAL PLUGS.
- 9. ONE (1) 4" CONDUIT SHALL BE FULLY POPULATED WITH FOUR (4) 1 INCH INNER-DUCTS.
- 10. GRANULAR FILL TO BE CRUSHED STONE OF PEA GRAVEL WITH NOT LESS THAN 95 PERCENT PASSING 1/2 INCHES AND NOT LESS THAN 95 PERCENT TO BE RETAINED ON A NUMBER 8 SIEVE AND SHALL BE PLACED IN LAYERS NOT EXCEEDING 6 INCH DEPTH.
- 11. CONDUITS UNDER PAVED AREA SHALL BE ENCASED IN CONCRETE. ALL ENCASEMENT CONCRETE SHALL BE A MINIMUM 4,000 PSI.
- 12. THE AREA BETWEEN THE ENTRANCE CONDUITS AND BUILDING STRUCTURE SHALL BE SEALED TO BE WATER AND PEST PROOF.
- 13. WHERE CONDUITS TURN UP INTO BUILDING ENTRANCE, THE CONDUIT SHALL BE TRANSITIONED TO RMC BEFORE THE SWEEP

DIMENSIONS: W = 24" MIN. D = 4"

L1 = 6" MIN.L2 = 2" MIN.

② OSP UNDERGROUND CONDUIT NTS



E OF DIMENSIONS
HAND HOLE WIDTH - PER PLANS
HAND HOLE LENGTH - PER PLANS
HAND HOLE HEIGHT - PER PLANS

GENERAL TELECOMMUNICATIONS HAND HOLE NOTES:

- REFER TO PLANS FOR HAND HOLE (HH) LOCATIONS AND PATHWAY
- TELECOMMUNICATIONS HH SHALL NOT BE SHARED WITH ELECTRICAL
- REFER TO DUCT BANK DETAILS FOR RELATIONSHIP OF CONDUITS TO HH
- INGRESS. HH SHALL BE EQUIPPED WITH A LID, PULL IRONS, CABLE RACKS, AND HOOKS DESIGNED FOR USE INTELECOMMUNICATIONS SYSTEMS. LID SHALL BE RATED FOR THE INSTALLATION LOCATION (MEDIUM DUTY OR
- TRAFFIC) AND SHALL BE MARKED IN THE MANUFACTURER'S DESIGNATED LOCATION WITH THE TERM "TELECOMMUNICATIONS". CABLE HOOKS SHALL BE PLACED TO SUPPORT THE WEIGHT OF THE CABLE. CONDUIT INGRESS/EGRESS LOCATIONS AND QUANTITIES SHOWN ON THIS
- DETAIL ARE FOR ILLUSTRATIVE PURPOSES ONLY. CONDUIT SIZE AND QUANTITY AS PER PLANS AND DUCT BANK DETAILS.
- 6. HH ENTRANCE SHALL BE INSTALLED FLUSH WITH FINISHED GRADE. SHOWN HH IS FOR ILLUSTRATIVE PURPOSES ONLY. FOR ADDITIONAL DETAILS CONCERNING REQUIREMENTS, REFER TO SPECIFICATION SECTION
- 270443 UNDERGROUND DUCTS AND RACEWAYS. WHEN SPLICING IN HH, PROVIDE 3/4" DIAMETER GROUND ROD 9'-0" IN

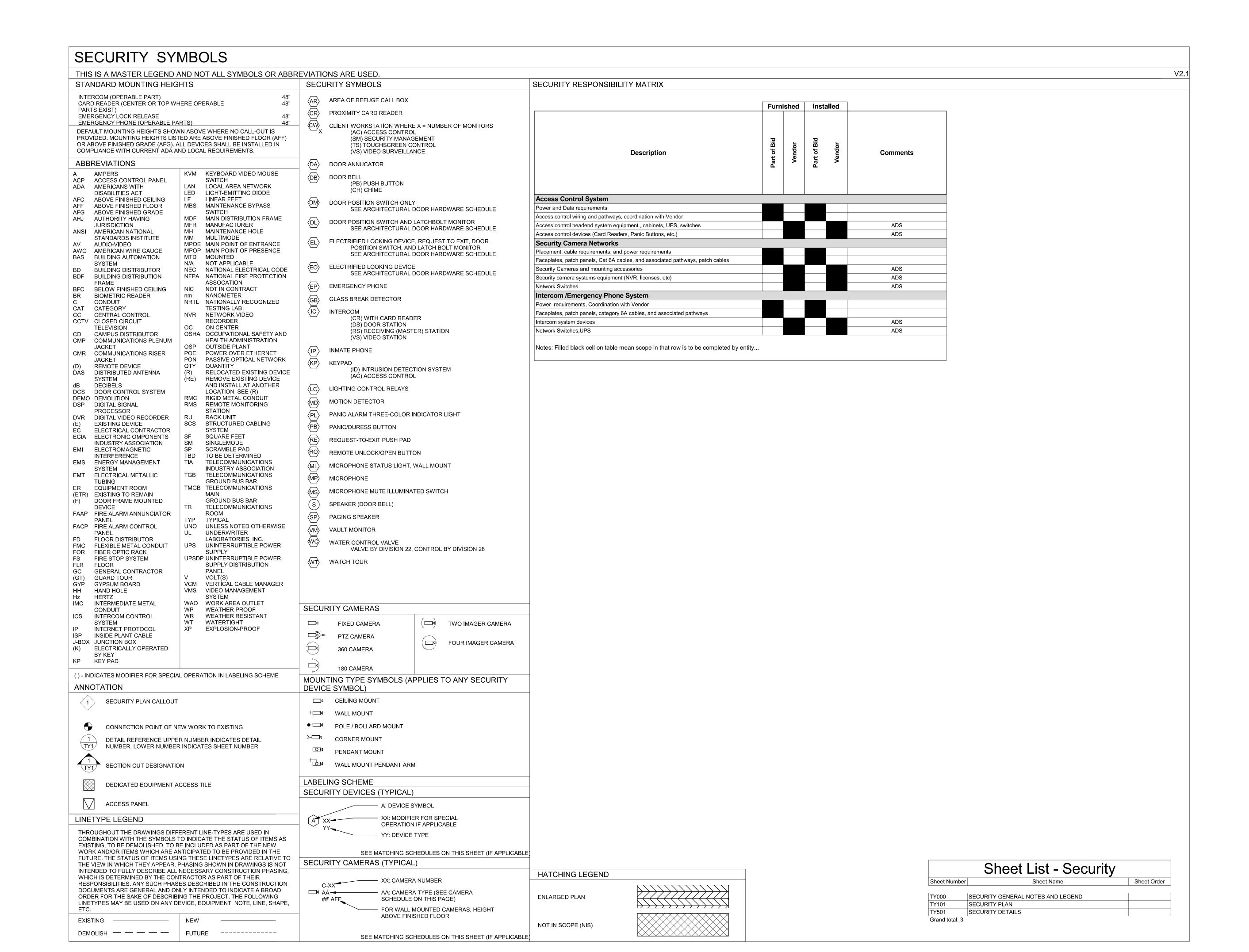
BASE FOR PROPER DRAINAGE.

- INSTEAD OF USING HH BOTTOM, PROVIDE 1 2' OF PEA GRAVEL BELOW
- LENGTH, BONDING RIBBON, AND BOND CABLE RACKS TO GROUND. PROVIDE CONDUIT SEPARATION OF 2" BETWEEN ALL CONDUITS. MAXIMUM

$\wedge$	DESCRIPTION	DATE
PROJEC <sup>-</sup>	ΓNO:	18225R21006
STATUS:		PERMIT SET
DATE:		11/01/2023
DRAWN E	BY:	О.В
CHECKE	O BY:	B.W
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SECURITY GENERAL NOTES AND LEGEND

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- S1 FOR DOUBLE DOOR INSTALLATION DETAIL REFER TO DETAIL 1 ON SHEET TY501. S2 FOR SINGLE DOOR INSTALLATION DETAIL REFER TO DETAIL
- 2 ON SHEET TY501. S3 LOCATION OF SECURITY AND CARD ACCESS CONTROL PANEL. COORDINATE FINAL LOCATION WITH SECURITY VENDOR.



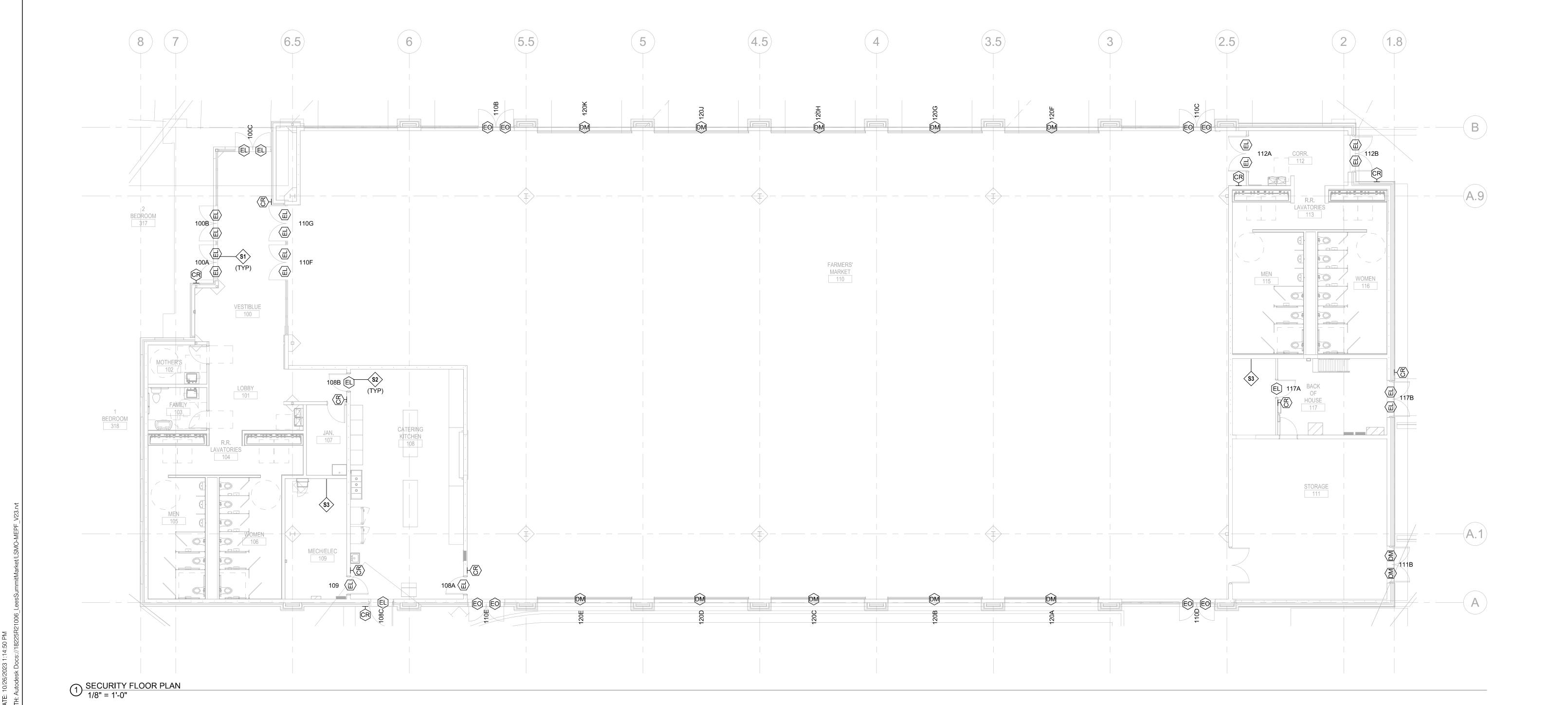




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	Architecture, Inc.	

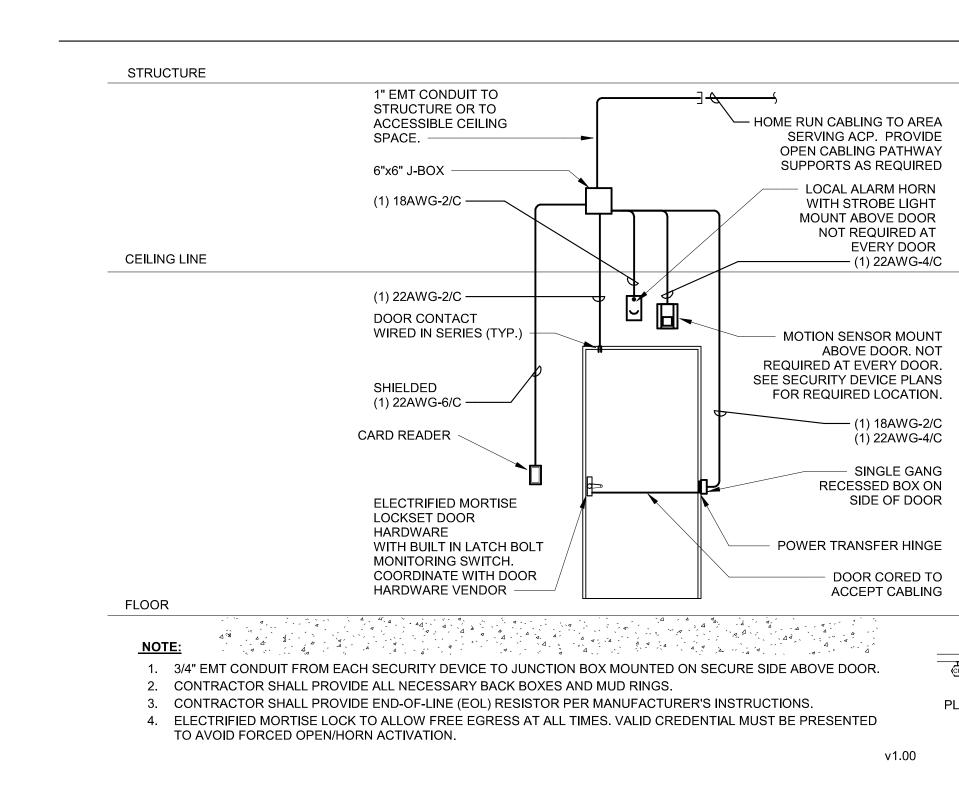
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PLAN NORTH TY101









SINGLE GANG

SIDE OF DOOR

v1.00

PLAN VIEW

1 DOUBLE DOOR CARD-IN/CARD-OUT ELEC. MORTISE NTS

STRUCTURE

1" EMT CONDUIT TO STRUCTURE OR TO

(1) 18AWG-2/C —

6"x6" J-BOX —

(1) 18AWG-2C —

(1) 22AWG-4/C —

SINGLE GANG RECESSED BOX ON SIDE OF DOOR TYP BOTH SIDES OF DOOR

CARD READER —►□

POWER TRANSFER

2. CONTRACTOR SHALL PROVIDE ALL NECESSARY BACK BOXES AND MUD RINGS.

3. CONTRACTOR SHALL PROVIDE END-OF-LINE (EOL) RESISTOR PER MANUFACTURER'S INSTRUCTIONS.

1. 3/4" EMT CONDUIT FROM EACH SECURITY DEVICE TO JUNCTION BOX MOUNTED ON SECURE SIDE ABOVE DOOR.

SHIELDED

ACCESSIBLE CEILING SPACE. —

— HOME RUN CABLING TO AREA

SERVING ACP . PROVIDE OPEN

CABLING PATHWAY SUPPORTS

AS REQUIRED

— (1) 2/C 22AWG

LOCAL ALARM HORN WITH STROBE LIGHT

MOUNT ABOVE DOOR

- DOOR CONTACT

WIRED IN SERIES

ELECTRIFIED MORTISE LOCKSET DOOR HARDWARE

WITH. BUILT IN

COORDINATE WITH

DOOR HARDWARE

(1) 18AWG-2C

 DOOR CORED TO ACCEPT CABLING

(1) 22AWG-4C

LATCH BOLT MONITORING

SWITCH.

VENDOR

PLAN VIEW

(TYP.)

2 SINGLE DOOR CARD-IN/CARD-OUT ELEC. MORTISE NTS

## CITY OF LEE'S SUMMIT SUMMIT

LEE'S SUMMIT, MO

SECURITY DETAILS