GENERAL STRUCTURAL NOTES

GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR AND SHALL VERIFY AND COORDINATE ALL DIMENSIONS AND DETAILS BEFORE PROCEEDING WITH WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND ENGINEERS.
2. DETAILS SHOWN IN ANY SECTION APPLY TO ALL SIMILAR SECTIONS AND CONDITIONS UNLESS NOTED OTHERWISE.
3. CONTRACTOR SHALL FULLY BRACE AND OTHERWISE PROTECT ALL WORK IN PROGRESS UNTIL THE BUILDING IS COMPLETED.
4. ALL STRUCTURAL ITEMS FOR THIS PROJECT HAVE BEEN DESIGNED IN ACCORDANCE WITH APPROPRIATE PROVISIONS OF EACH OF THE FOLLOWING:
   A. THE FLORIDA BUILDING CODE, (8TH EDITION) 2023.
   B. ACI STANDARD 318-19 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
   C. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (TMS 402-16).
   D. AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" 360-16.
   E. NDS FOR WOOD CONSTRUCTION WITH 2018 NDS SUPPLEMENT.
   F. ASCE 7-22 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES".
5. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS AND THE ARCHITECTURAL AND MECHANICAL DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ARCHITECT PRIOR TO PERFORMING WORK. IN CASE OF CONFLICT THE MOST STRINGENT CONDITION SHALL APPLY.
6. ALL DIMENSIONS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND WITH EQUIPMENT MANUFACTURER (I.E. WINDOW, DOOR, AIR HANDLER, ETC.). CONTRACTOR MUST OBTAIN AN ARCHITECTURAL DIRECTIVE IN CASE OF ANY CONFLICT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN IN STRUCTURAL DRAWINGS.
7. ROOFTOP EQUIPMENT ANCHORAGE & OUTDOOR RACK MOUNTED EQUIPMENT ANCHORAGE. ALL ROOF TOP EQUIPMENT CURBS, ROOF TOP MECHANICAL EQUIPMENT, EQUIPMENT TIE DOWNS, AND CONNECTIONS OF ALL EQUIPMENT TO OUTDOOR RACKS OR BUILDING STRUCTURE FOR WIND LOADING ARE TO BE DESIGNED AND ENGINEERED BY A REGISTERED SPECIALTY ENGINEER RETAINED BY THE MECHANICAL EQUIPMENT SUPPLIER. SIGNED AND SEALED DRAWINGS AND CALCULATIONS ARE TO BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL. THE EQUIPMENT MANUFACTURER SHALL PROVIDE THE ATTACHMENT OF THE UNIT TO THE STRUCTURE AND SUBMIT TO THE ENGINEER LOADS, LOCATIONS, AND METHODS OF ATTACHMENT. THE STRUCTURAL ENGINEER WILL MAKE PROVISIONS IN THE DESIGN OF THE PRIMARY STRUCTURAL FRAME TO ACCOMMODATE THE LOADS AND ATTACHMENTS SUBMITTED BY THE MANUFACTURER.
8. ADDITIONAL STRUCTURAL MATERIAL FOR UNFORESEEN CIRCUMSTANCES RELATED OT THE RENOVATION AND ADDICTION:
   A. 55 CUBIC YARDS OF 4,000 PSI STRUCTURAL CONCRETE.
   B. 20 TONS REINFORCED STEEL.
   C. 5 TONS STRUCTURAL STEEL FRAMING.

CONCRETE AND REINFORCING:

1. ALL CONCRETE WORK SHALL CONFORM TO THE LATEST ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI-318".
2. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTHS AS INDICATED BELOW:

CONCRETE STRENGTH	MAX WATER CEMENT RATIO	TYPE AGGREGATE	LOCATION USED
4000 PSI	0.45	STONE	CONCRETE U.N.O.
3000 PSI	0.52	STONE	SLAB ON GRADE AND FOUNDATIONS

3. ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE, NEW BILLET STEEL, DEFORMED BARS, CONFORMING TO ASTM A-615, GRADE 60. ALL BARS SHALL BE SECURELY SUPPORTED AND WIRED IN PLACE. PRIOR TO POURING CONCRETE. ALL REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A-706.
4. ALL WELDED WIRE FABRIC (W.W.F.) IN FLAT SHEETS ONLY AND SHALL CONFORM TO ASTM A-185.
5. UNLESS NOTED, ALL BARS MARKED CONTINUOUS SHALL BE SPLICED AT ALL LAP POINTS AND CORNERS AND DEVELOPED AT NON-CONTINUOUS ENDS AS PER TYPICAL DETAILS. SPLICE CONTINUOUS TOP BARS AT CENTER BETWEEN SUPPORTS AND SPLICE CONTINUOUS BOTTOM BARS AT SUPPORTS.
6. CONCRETE COVER FOR REINFORCING BARS SHOWN IN TYPICAL DETAILS.
7. UNLESS NOTED, TEMPERATURE REINFORCING (ASTM A-615-60) TO BE 0.0018 X CONCRETE AREA.
8. PROVIDE #4 @ 12" O.C., WITH STANDARD HOOK, TOP BARS IN ALL SLABS AT DISCONTINUOUS ENDS UNLESS OTHERWISE NOTED ON PLANS, LENGTH OF BARS 1/4 OF SPAN, MINIMUM 3'-0". UNLESS OTHERWISE NOTED PROVIDE #4 @ 12" O.C. IN CANTILEVERS. BAR LENGTH SHALL BE CANTILEVER SPAN PLUS 10'-0" PLUS STANDARD HOOK AT CANTILEVER ENDS.
9. WHERE PIPE SLEEVES (UP TO 2" IN DIAMETER) PASS THROUGH CONCRETE BEAMS, PROVIDE ADDITIONAL STIRRUP EACH SIDE OF SLEEVE. SLEEVES FOR PIPES 2" IN DIAMETER OR LARGER MUST BE STEEL OR CAST IRON, AND THE LOCATION MUST BE APPROVED BY THE STRUCTURAL ENGINEER.
10. ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED JUST BEFORE PLACING NEW CONCRETE IN ACCORDANCE WITH THE BUILDING CODE.
11. FOR CHAMFER OF EXPOSED CORNERS OF BEAMS AND/OR COLUMNS, SEE ARCHITECTURAL DRAWINGS.
12. CONTRACTOR SHALL COORDINATE PLACEMENT OF, OR BOX OUT FOR, ALL PIPE SLEEVES, OPENINGS, ETC, REQUIRED FOR VARIOUS TRADES.
13. CONTRACTOR SHALL COORDINATE AND NOTIFY OTHER TRADES IN SUFFICIENT TIME TO ALLOW THEM TO SET ANCHORS, INSERTS, BOLTS, HANGERS, ETC., AS REQUIRED FOR THEIR USE.
14. SEE ARCHITECTURAL DRAWINGS FOR DETAILS OF FLASHING REGLETS, FASCIA DETAILS, ETC.
15. UNDER NO CIRCUMSTANCES SHALL CONCRETE BE PUMPED THROUGH ALUMINUM PIPES. CONCRETE SHALL NOT BE PLACED IN CONTACT WITH ALUMINUM, ALUMINUM MOVING DRUMS, TRUCK MIXERS, BUGGIES, CHUTES, CONVEYORS, TREMIE PIPES, AND OTHER EQUIPMENT MADE OF ALUMINUM SHALL NOT BE USED ON THIS PROJECT.
16. SLUMPS OF OVER 4 INCHES WILL NOT BE PERMITTED UNLESS THE HRWR ADMIXTURE (SUPER PLASTICIZER) IS USED. MAXIMUM SLUMP IS THEN 8 INCHES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
17. NO ADMIXTURE SHALL BE USED IN CONCRETE EXCEPT WITH THE PERMISSION OF THE ENGINEERS AND AFTER LABORATORY DESIGN MIX APPROVAL. ALL ADMIXTURES SHALL CONTAIN NO MORE CHLORIDE IONS THAN ARE PRESENT IN MUNICIPAL DRINKING WATER.
18. WATER REDUCING ADMIXTURE SHALL CONFORM TO THE ASTM C-494, TYPE A, AND SHALL BE USED IN ALL CONCRETE.
19. AIR ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260. AIR CONTENT OF CONCRETE SHALL BE USED AS FOLLOWS:
   A. FOR CONCRETE EXPOSED TO SOIL AND/OR WEATHER, 5%.
   B. FOR INTERIOR WALLS, COLUMNS, AND SLABS, 3%.
20. FLY ASH - ASTMC618, TYPE C OR TYPE F SHOULD BE USED BUT NOT TO EXCEED 20% CEMENTITIOUS CONTENT.
21. ALL EXPOSED CONCRETE SHALL RECEIVE A CURING COMPOUND. THE CURING COMPOUND SHALL CONFORM TO ASTM C309 AND SHALL HAVE 30% SOLIDS MINIMUM. WATER/BLANKET CURING AS PER ACI RECOMMENDATION MAY BE USED AS ALTERNATE.
22. UNLESS NOTED IN PROJECT SPECIFICATIONS, A TESTING LAB SHOULD PERFORM THE FOLLOWING TEST:
   - ATTENDANCE AT THE PROJECT SITE DURING ALL CONCRETE PLACING OPERATIONS
   - CONTROL THE ADDITION OF MIXING WATER TO MAINTAIN THE REQUIRED WATER/CEMENT RATIO AND INDICATED IN THE REPORT ANY ADDED WATER TO THE MIX AND THE LOCATION OF PLACEMENT.
   - ENSURE THAT THE CONCRETE IS OF THE PROPER TEMPERATURE WHEN PLACED.
   - AIR CONTENT TESTS - AT LEAST TWO TESTS SHALL BE MADE FOR EACH DAY'S PLACING OR FROM EACH BATCH OF CONCRETE FROM WHICH CYLINDERS ARE CAST.
   - SLUMP TESTS - AT FREQUENT INTERVALS TO PROPERLY CONTROL THE CONSISTENCY AND AT LEAST ONE AT THE TIME OF CASTING EACH GROUP OF CYLINDERS AND AT LEAST ONE TEST FOR EVERY 25 CUBIC YARDS.
   - CONCRETE COMPRESSION CYLINDERS SHALL BE TAKEN FROM THE CONCRETE OF EACH STRENGTH PLACED ON ANY ONE DAY AT LEAST ONE SET OF FIVE REPRESENTATIVE 6" X 12" TEST CYLINDERS. FOR LARGE PLACEMENTS ON ANY ONE DAY, THERE SHALL BE TAKEN NOT LESS THAN ONE SET OF FIVE REPRESENTATIVE TYPE CYLINDERS FOR EACH 100 CUBIC YARDS OF CONCRETE OF EACH STRENGTH PLACED. TWO CYLINDERS ARE TO BE TESTED AT 7 DAYS, TWO AT THE AGE OF 28 DAYS, AND THE FIFTH CYLINDER IN RESERVE FOR FURTHER TESTING. ASCERTAIN THAT THE TEST SPECIMENS ARE PROPERLY PROTECTED UNTIL SHIPPED TO THE TESTING LABORATORY. RECORD AND IDENTIFY EACH CYLINDER WITH THE LOCATION OF THE CONCRETE FROM WHICH THE SPECIMEN WAS TAKEN. KEEP MARKING IN SEQUENCE.

FOUNDATION NOTES:

1. SITE SOIL FOR THIS PROJECT HAS BEEN INVESTIGATED BY THE FIRM OF PROFESSIONAL SERVICE INDUSTRIES, INC., AND FOUND, AS PRESENTED IN THEIR REPORT DATED APRIL 10, 2023, SUITABLE TO SUPPORT 2.5 KSF SPREAD FOOTINGS. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE ABOVE STATED CRITERIA.
2. FILL AND SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER RECOMMENDATION AS CONTAINED IN THEIR REPORT STATED IN ITEM 1.
3. ALL COLUMN FOOTINGS SHALL BE CENTERED UNDER COLUMN CENTERLINES UNLESS OTHERWISE NOTED.
4. BACKFILLING AGAINST FOUNDATION WALLS SHALL BE DONE CAREFULLY WITH SMALL COMPACTION EQUIPMENT, AFTER SLABS ON GROUND ARE IN PLACE AND CONCRETE HAS SET. NO TRUCKS, BULLDOZERS, ETC. SHALL BE ALLOWED CLOSER THAN 6'-0" TO ANY FOUNDATION WALL. ANY WALL 3'-0" OR HIGHER MUST BE BRACED DURING THE CONSTRUCTION PROCESS.
5. NO FOUNDATIONS SHALL BE PLACED ABOVE 1 VERTICAL ON 2 HORIZONTAL SLOPES EXTENDED FROM THE CLOSEST EDGE OF ANY UNDISTURBED SOIL OR OTHER FOUNDATION STRUCTURE. BOTTOM OF FOOTINGS SHALL NOT BE LESS THAN 1'-0" BELOW EXISTING GRADE (U.N.O.).
6. FOR FOUNDATIONS SIZE AND REINFORCING SEE SCHEDULE.
7. LIFT PLATFORM PIT DIMENSIONS = VERIFY WITH LIFT PLATFORM MANUFACTURERS APPROVED SHOP DRAWINGS.
8. TERMITE PROTECTION INCLUDING PIPING SLEEVES MUST FOLLOW THE REQUIREMENTS OF SECTIONS 1816.1 AND 1816.2 OF THE FLORIDA BUILDING CODE, 7TH EDITION, 2020.

MASONRY:

1. DESIGN AND CONSTRUCTION SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ASCE 7-22) / TMS 402-16.
2. MINIMUM NET COMPRESSIVE STRENGTH OF BLOCK ASSEMBLY SHALL BE 2000 P.S.I. (f'm) MORTAR FOR MASONRY SHALL BE TYPE "S" OR "M".
3. FOR ALL EXTERIOR AND INTERIOR BEARING, BED JOINTS ARE TO COVER 100% OF THE MASONRY SURFACES AND ALL HEAD JOINTS ARE TO COVER 100% OF THE PROJECTED AREA OF THE FACE SHELLS.
4. FILL ALL CELLS AS REQUIRED WITH 3000 P.S.I. GROUT. SLUMP SHALL BE 8 TO 11 INCHES. SUBMIT DESIGN MIX FOR APPROVAL.
5. MINIMUM HORIZONTAL JOINT REINFORCING SHALL BE 9 GAUGE HOT DIP GALVANIZED TRUSS OR LADDER TYPE JOINT REINFORCING AT 16" O.C., PROVIDE MANUFACTURE "T" AND "L" SHAPES FOR INTERSECTIONS AND CORNERS, (MINIMUM LAP 6").
6. MINIMUM VERTICAL REINFORCING SHALL BE (1)-#5 @ 48" OR (1)-#4 @ 32" O.C., (U.N.O.).
7. PROVIDE ADDITIONAL VERTICAL REINFORCING BAR AT EVERY CORNER, INTERSECTION, CONTROL JOINT, AND OPENING EDGES (U.N.O.).
8. MINIMUM SPLICE FOR VERTICAL REINFORCING IS SHOWN IN DETAIL 4-023, SPLICE FOR HORIZONTAL JOINT REINFORCING = 6".
9. WALLS ARE DESIGNED TO BE BRACED BY FLOOR OR ROOF MEMBERS, CONTRACTOR SHALL PROVIDE TEMPORARY BRACING DURING CONSTRUCTION.
10. ALL CELLS BELOW FIRST FLOOR FINISHED ELEVATION MUST BE FULLY GROUT FILLED.
11. ALL KNOCK OUT BLOCK HORIZONTAL BARS SHALL HAVE CORNER BARS AT ALL CORNERS AND WALL INTERSECTIONS. SIZE AND NUMBER OF CORNER BARS SHALL BE SAME AS HORIZONTAL BARS.
12. ALL INTERSECTING WALLS AND CORNER WALLS SHALL BE LAID IN AN OVERLAPPING MASONRY BONDING PATTERN, WITH ALTERNATE UNITS HAVING A BEARING OF NOT LESS THAN 3 INCHES ON UNIT BELOW.

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL WORK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST A.I.S.C. SPECIFICATIONS.
2. STRUCTURAL STEEL SHALL CONFORM TO:

WIDE FLANGE (WF)	ASTM A992 (50 KSI)
SHAPES (L,T,C,PL)	ASTM A36
STRUCTURAL TUBE (HSS)	ASTM A500 (46 KSI)
STEEL PIPE (HSS)	ASTM A500 (42 KSI)
ANCHOR BOLTS	ASTM F1554 (36 KSI) U.N.O. IN PLATE SECTIONS.
FRAMING BOLTS	ASTM A325 OR A490
SHEAR STUDS	ASTM A108
WELDING ELECTRODES	E70XX

3. ALL HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM SPECIFICATION A325 AND SHALL BE PROVIDED WITH HARDENED WASHERS UNDER THE TURNED ELEMENT (NUT OR BOLT HEAD).
4. INSTALLATION AND TIGHTENING OF ALL HIGH STRENGTH BOLTS SHALL CONFORM TO THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
5. SHOP CONNECTIONS MAY BE WELDED OR HIGH STRENGTH BOLTED. ALL BOLTS SHALL BE 3/4" DIAMETER MINIMUM. ALL CONNECTIONS SHALL CONFORM TO THE TYPICAL CONNECTION DETAILS SHOWN ON THE PLANS UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.
6. ALL FIELD CONNECTIONS SHALL BE BOLTED WITH HIGH STRENGTH BOLTS, SLIP-CRITICAL (FRICTION) TYPE EXCEPT WHERE SLOTTED HOLES ARE SPECIFIED OR WHERE MOVEMENT OF THE CONNECTED MEMBERS IS EXPECTED. IN THESE CASES PROVIDE OVERSIZED WASHER, HAND TIGHTEN BOLTS, AND TACK WELD WASHER TO NUT TO VERIFY ASSEMBLY IS HELD TOGETHER.
7. ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE, ANS01.1, ALL WELDING SHALL BE PERFORMED USING E70XX U.N.O.
8. CUTS, HOLES, COPINGS, ETC REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN IN THE STRUCTURAL STEEL SHOP DRAWINGS AND SHALL BE MADE IN THE SHOP. HOLES SHALL BE REINFORCED AS REQUIRED BY THE ENGINEER.
9. BURNING OF HOLES, CUTS, ETC. IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED, EXCEPT WITH THE SPECIFIC APPROVAL OF THE ENGINEER.
10. ALL STEEL MEMBERS (SUCH AS BEAMS, COLUMNS, PLATES, BOLTS, LINTELS, DOOR JAMBS, ETC.) EXPOSED TO WEATHER AND ALL MEMBERS IN AN EXTERIOR ENCLOSED NON-AIR-CONDITIONED AREA, SHALL BE HOT DIPPED GALVANIZED.
11. FOR MISCELLANEOUS STEEL, SEE ARCHITECTURAL DRAWINGS.
12. ANY STEEL MEMBERS REQUIRED BY THE ELECTRICAL OR MECHANICAL TRADES FOR THE SUPPORT OF THEIR EQUIPMENT, WHICH ARE NOT SHOWN ON ARCHITECTURAL OR STRUCTURAL DRAWINGS, SHALL BE PROVIDED BY THE TRADE REQUIRING SUCH SUPPORT.
13. SEE SPECIFICATIONS FOR PAINTING OF STRUCTURAL STEEL. ALL FABRICATION AND ERECTION MARKS SHALL BE COVERED DURING FIELD TOUCH-UP PAINTING.
14. ALL CONNECTIONS TO BE DOUBLE ANGLE FRAMED BEAM CONNECTION PER AISC UNLESS NOTED OTHERWISE. ALL BOLTS TO BE 3/4" MINIMUM DIAMETER UNLESS NOTED OTHERWISE. SHOP CONNECTIONS MAY BE WELDED OR BOLTED. WELDS ARE TO BE EQUAL IN STRENGTH TO BOLTS.
15. DESIGN CONNECTIONS FOR HALF THE MAXIMUM SHEAR (V IN KIPS) LISTED IN THE TABLE 3-6 "MAXIMUM TOTAL UNIFORM LOAD" AT THE BOTTOM OF EACH PAGE IN THE "BEAM PROPERTIES" OF THE AISC 360-16" MANUAL OF STEEL CONSTRUCTION. "MINIMUM CONNECTION SHALLCONSIST OF TWO 3/4"Ø A325 BOLTS. REACTIONS SHOWN ARE BASED ON UNFACTORED LOADS. PROVIDE SIGNED AND SEALED DRAWINGS AND CALCULATIONS BY A PROFESSIONAL ENGINEER.
16. DESIGN BASE PLATE ANCHOR BOLTS FOR LATERAL MEMBERS USING FORCES INDICATED ON DRAWINGS. PROVIDE SIGNED AND SEALED DRAWINGS AND CALCULATIONS BY A PROFESSIONAL ENGINEER.
17. WHEN STEEL MEMBERS ARE WELDED TO EMBED PLATES IN CONCRETE, WELDING PROCESS SHOULD BE PERFORMED IN SUCH WAY THAT EMBED PLATE DOES NOT OVERHEAT AND EXPAND. SUCH EXPANSION WILL CRACK THE CONCRETE SURROUNDING THE EMBED PLATE AND MAY WEAKEN THE STRUCTURAL CAPACITY OF THE CONNECTION. WE RECOMMEND TO PROVIDE SEVERAL SINGLE PASSES TO BUILT UP THE WELD SIZE REQUIRE WITH COOLING OFF PERIODS TO AVOID THE EMBED PLATE EXPANSION. UNDER NO CIRCUMSTANCES PROVIDE MORE THAN 6" OF 1/4" WELD WITHOUT ALLOWING A COOLING OFF PERIOD.
18. EXPOSED ENDS OF STRUCTURAL TUBES OR PIPES SHALL BE CAPPED WITH A MINIMUM 1/4" PLATE U.N.O.
19. ALL WELDS SHALL BE VISUALLY INSPECTED AND COMPLIANT WITH AWS D1.1 ACCEPTANCE CRITERIA. ALL COMPLETE JOINT PENETRATION WELDS SHALL BE TESTED FOR THEIR FULL LENGTH BY MEANS OF AN APPROVED NONDESTRUCTIVE TEST IN ACCORDANCE WITH AWS D1.1.

STEEL JOIST:

1. STEEL JOIST CONSTRUCTION SHALL CONFORM TO THE LATEST SPECIFICATIONS OF, AND THE JOISTS SHALL BE APPROVED BY, THE STEEL JOIST INSTITUTE.
2. UNLESS OTHERWISE NOTED, BEAR SHORT SPAN JOISTS MINIMUM OF 2-1/2" ON STEEL BEAMS AND BEAR LONG SPAN JOIST MINIMUM OF 4" ON STEEL SUPPORTS. IN CASES WHERE JOISTS BEAR ON BEAMS FROM ONE SIDE ONLY, JOIST SEATS SHALL EXTEND A MINIMUM OF 1" PAST THE CENTERLINE OF SUPPORTING BEAM.
3. ALL JOISTS BEARING ON BEAMS SHALL BE WELDED OR BOLTED TO THOSE BEAMS.
4. PROVIDE BRIDGING FOR ALL JOISTS AS SHOWN ON PLAN BUT NOT LESS THAN WHAT IS REQUIRED BY THE STEEL JOIST INSTITUTE OR THE STEEL JOIST DESIGNER. BRIDGING SHALL CONSIST OF MINIMUM 1-1/4" X 1-1/4" X 7/64" ANGLES, (U.N.O.).
5. ALL BRIDGING SHALL BE PROVIDED AND INSTALLED BY JOIST SUPPLIER.
6. ALL CLIPS AND CONNECTIONS SHALL BE SHOP WELDED.
7. NO FIELD WELDING TO BAR JOISTS EXCEPT ITEMS SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS SHALL BE ALLOWED WITHOUT SPECIFIC PERMISSION FROM THE ENGINEER.
8. NO JOIST SHALL BE FIELD SPLICED.
9. MAXIMUM DEFLECTION OF STEEL JOISTS = L/360 FOR LIVE LOAD.
10. FOR PAINTING OF STEEL JOIST, SEE SPECIFICATIONS.
11. JOIST MANUFACTURER SHALL SUBMIT WITH THE SHOP DRAWINGS HIS CATALOG USED FOR THE MANUFACTURE OF JOISTS, INDICATING THE LOAD TABLES AND SIZES OF ALL MEMBERS USED.
12. NO LOADS EXCEEDING 40 POUNDS MAY BE HUNG FROM JOISTS WITHOUT SPECIFIC PERMISSION FROM THE STRUCTURAL ENGINEER. LOADS LESS THAN 40 POUNDS MAY BE HUNG AT PANEL POINTS ONLY. ANY COST INVOLVED IN REINFORCING OF JOISTS SHALL BE BORNE BY THE PRIME CONTRACTOR REQUIRING ADDED LOADS.
13. ALL SHORT SPAN JOISTS, AND DEEP LONG SPAN JOISTS SHALL HAVE UNIFORM CROSS SECTION, WITH STANDARD DEAD LOAD CAMBER. ROOF PITCH IS ACCOMPLISHED BY SLOPED JOISTS AND SUPPORT BEAMS. ADJUST JOIST SEATS AS SHOWN ON DRAWINGS.
14. FOR SPECIFIC JOIST ENDS, SEE ROOF SECTIONS.
15. RIGID CONNECTIONS OF BOTTOM CHORDS OF JOISTS TO COLUMNS SHALL BE MADE ONLY AFTER THE APPLICATION OF ALL THE DEAD LOADS. PROVIDE LOOSE BOLTED CONNECTION OF THESE BOTTOM CHORDS DURING ERECTION.
16. JOIST SHALL NOT BE FABRICATED USING ELECTRICAL RESISTANCE WELDING.

STEEL ROOF DECK:

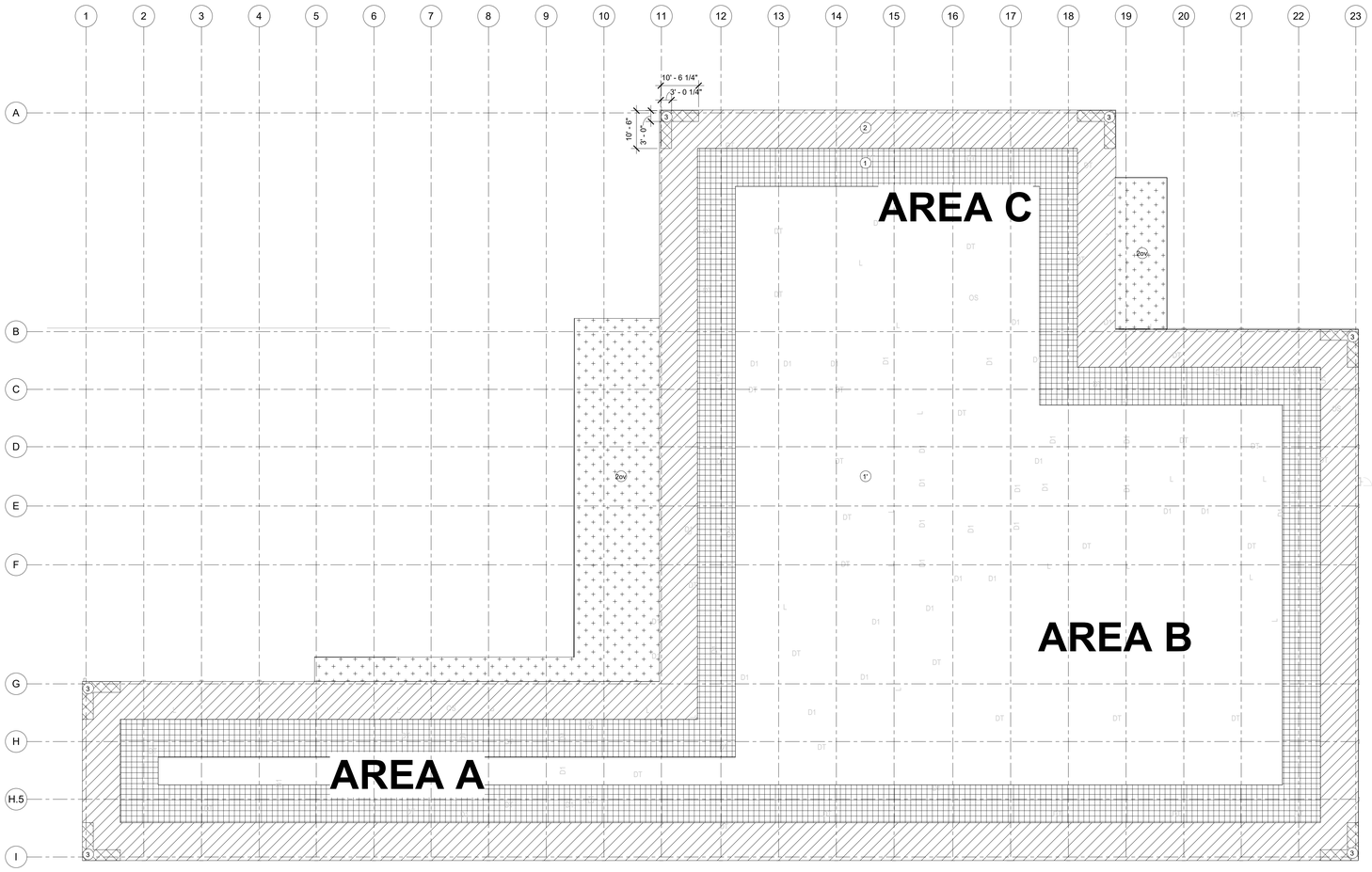
1. STEEL ROOF DECK SHALL BE A MINIMUM OF 1-1/2" - 20 GAUGE WIDE RIB FOR SPANS UP TO 6'-0" OR 3" TYPE N - 20 GAUGE FOR SPANS UP TO 12'-0". THE SIZE, TYPE AND GAUGE INDICATED ABOVE SHOULD BE USED UNLESS A DIFFERENT ONE IS INDICATED IN THE ROOF FRAMING NOTES OF THE ROOF PLAN DRAWING.
2. ALL STEEL ROOF DECK SHALL BE GALVANIZED G90 AS PER ASTM SPECIFICATIONS. ALL ROOF DECK SHOULD BE VENTED WHEN A LIGHT WEIGHT INSULATING CONCRETE IS USED FOR ROOFING.
3. ALL STEEL ROOF DECK SHALL BE CAPABLE OF SUPPORTING ALL CONSTRUCTION LOADS.
4. ALL STEEL ROOF DECK SHALL BE CONTINUOUS OVER FOUR OR MORE STRUCTURAL SUPPORTS (I.E. DECK SHOULD BE DETAILED FOR A THREE SPAN CONDITION.)
5. STEEL ROOF DECK SHALL HAVE NESTING SIDE LAPS (ATTACHED BY MECHANICAL MEANS). PROVIDE FASTENER LAYOUT AS PER TYPICAL DETAIL 5-305.
6. IF DECK IS CUT IN SINGLE SPAN CONDITION, EACH END OF SUCH SECTIONS SHALL BE WELDED TO ITS SUPPORT THROUGH WELDING WASHERS IN THE BOTTOM OF EACH RIB.
7. IN AREAS WHERE THE DECK IS CUT AS PER NOTE 6, THE GAUGE OF THE SINGLE SPAN DECK SHALL BE ADJUSTED UPWARDS AS REQUIRED BY THE ENGINEER TO SUPPORT THE LOADS.
8. ANY ELECTRICAL WORK WEIGHING MORE THAN 5 PSF OR 50 LBS CONCENTRATED SHALL BE HUNG FROM STEEL BEAMS/JOISTS ONLY. FOR HANGERS, SEE SPECIFICATIONS. ALL MECHANICAL WORK AND PIPING SHALL BE HUNG FROM STEEL BEAMS/JOISTS.
9. METAL DECK CONTRACTOR TO PROVIDE 18 GAUGE RIDGE PLATE, VALLEY PLATE, EDGE STRIP, ETC., AS REQUIRED.
10. STEEL ROOF DECK SHALL BE WELDED AT ENDS AND ALL INTERMEDIATE SUPPORTING MEMBERS WITH 5/8" DIAMETER PUDDLE WELDS OR ELONGATED WELDS OF EQUAL STRENGTH SPACED PER SPECIFICATIONS IN THE BOTTOM OF THE RIB ACROSS THE WIDTH OF THE DECK UNIT.
11. CUT OUT METAL DECK WHERE BOLT PROJECTIONS INTERFERE WITH METAL DECK.
12. DIRECTION OF METAL DECK SHOWN THUS ◄——► ON PLAN.

LIGHTGAUGE METAL FRAMING:

1. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE, "SPECIFICATION FOR THE DESIGN OF COLD FORMED STRUCTURAL MEMBERS", 2016 EDITION. PROVIDE SIGN AND SEALED CALCULATIONS AND DRAWINGS FOR ALL LIGHT GAUGE STRUCTURAL ELEMENTS OF THE BUILDING, INCLUDING THE EXTERIOR METAL STUDS (CURTAIN WALL), AND ALL EXTERIOR CEILINGS.
2. ALL STRUCTURAL STUDS AND JOISTS 22, 20, AND 18 GAUGES SHALL BE FORMED FROM GALVANIZED STEEL PER ASTM A653, G60 COATING MEETING THE REQUIREMENTS OF ASTM C955 WITH A YIELD STRENGTH OF 33,000 PSI.
3. ALL STRUCTURAL TRACK AND JOISTS 16, 14, AND 12 GAUGES SHALL BE FORMED FROM GALVANIZED STEEL PER ASTM A653, G60 COATING MEETING ASTM C955, WITH YIELD STRENGTH OF 50,000 PSI.
4. ALL STRUCTURAL TRACK AND BRIDGING SHALL BE FORMED FROM GALVANIZED STEEL PER ASTM A653, G60 COATING MEETING THE REQUIREMENTS OF ASTM C595, WITH YIELD STRENGTH OF 33,000 PSI.
5. WITH EACH TYPE OF METAL FRAMING REQUIRED, PROVIDE MANUFACTURER'S STANDARD STEEL RUNNERS (TRACKS), BLOCKING, LINTELS, CLIP ANGELS, SHOES, REINFORCEMENTS, FASTENERS, AND ACCESSORIES AS RECOMMENDED BY MANUFACTURER FOR APPLICATIONS INDICATED, AS NEEDED TO PROVIDE A COMPLETE METAL FRAMING SYSTEM.
6. PROVIDE GALVANIZED FINISH TO METAL FRAMING COMPONENTS COMPLYING WITH ASTM A653 FOR MINIMUM G60 COATING. ATTACH SIMILAR COMPONENTS BY WELDING, ATTACH DISSIMILAR COMPONENTS BY WELDING, BOLTING OR SCREW FASTENERS, AS STANDARD WITH MANUFACTURER. ALL WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED AND EXPERIENCED IN LIGHT GAUGE STRUCTURAL STEEL FRAMING WORK.
7. INSTALL METAL FRAMING SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S PRINTED OR WRITTEN INSTRUCTIONS AND RECOMMENDATIONS, UNLESS OTHERWISE INDICATED.
8. INSTALL CONTINUOUS TRACKS SIZED TO MATCH STUDS.
9. SET STUDS PLUMB, EXCEPT AS NEEDED FOR DIAGONAL BRACING OR REQUIRED FOR NON-PLUMB WALLS OR WARPED SURFACED AND SIMILAR REQUIREMENTS.
10. WHERE STUD SYSTEM ABUTS STRUCTURAL COLUMN OR WALLS, INCLUDING MASONRY WALL, ANCHOR ENDS OF STIFFENERS TO SUPPORTING STRUCTURE.
11. SECURE STUDS TO TOP AND BOTTOM RUNNER TRACKS BY EITHER WELDING OR SCREW FASTENERS AT BOTH INSIDE AND OUTSIDE FLANGES.

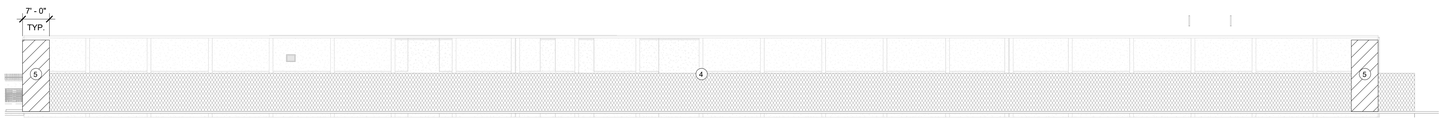
SHOP DRAWINGS:

1. NO STRUCTURAL DRAWINGS SHALL BE REPRODUCED FOR USE AS SHOP DRAWINGS.
2. ALL DIMENSIONAL COORDINATION SHALL BE DONE BY THE CONTRACTOR AND/OR HIS DETAILER.
3. DETAILER SHALL CHECK ALL ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL ATTACHMENTS, CLIPS, OPENINGS, OR DUCT WORK AFFECTING STRUCTURAL MEMBERS. ALL ITEMS SHALL BE SHOWN ON SHOP DRAWINGS.
4. ALL SHOP DRAWINGS SHALL BE SUBMITTED ELECTRONICALLY IN PDF FORMAT. DISTRIBUTION AS PER ARCHITECT INSTRUCTIONS.
5. PROVIDE SUFFICIENT SPACE ON SHOP DRAWINGS NEAR TITLE BOX (ABOUT 40 SQUARE INCHES) FOR STAMPS AND ENGINEERS COMMENTS.
6. THE SHOP DRAWINGS SHALL BEAR INITIALS OF DETAILER'S CHECKER AND CONTRACTOR PRIOR TO SUBMISSION.
7. COMPLETED ERECTION PLANS SHALL BE SUBMITTED PRIOR TO OR IN CONJUNCTION WITH DETAIL DRAWINGS. BUT IN NO CASE SHALL DETAIL DRAWINGS BE SUBMITTED PRIOR TO ERECTION PLANS.
8. DETAILER SHALL SUBMIT AN INDEX OF THE DETAIL DRAWINGS WITH EACH SHOP DRAWING SUBMITTAL.
9. SHOP DRAWINGS NOT COMPLYING WITH ALL THE ABOVE ITEMS SHALL BE RETURNED FOR CORRECTIONS WITHOUT PROCESSING.
10. RESUBMITTED SHOP DRAWINGS SHALL HAVE THE FOLLOWING CHANGES INCORPORATED: FIRST RESUBMISSION TO HAVE LETTER "A" ADDED TO DRAWING
    A. NUMBER AND ANY CHANGES MARKED ON THE DRAWING MARKED 1 AT EACH ITEM CHANGED. ALL ITEMS TO BE NOTED IN REVISION BOX.
    B. SUBSEQUENT RESUBMISSION SHALL BEAR CHANGES "B" AND 2 AND 3 ETC. AS IN 11A.
11. CONTRACTOR SHALL HAVE SHOP DRAWINGS WHICH HAVE BEEN SATISFACTORILY REVIEWED BY THE ARCHITECT AND/OR ENGINEER AND CONFIRMED BY THE CONTRACTOR BEFORE PROCEEDING WITH ANY WORK.
12. DETAILER SHALL USE THE SAME STRUCTURAL ELEMENTS NUMBERS IN HIS DETAILS AS THOSE SHOWN ON CONTRACT DRAWINGS.
13. SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOULD BE SUBMITTED TO MCE WITH A MINIMUM TIME TO BE REVIEWED OF 10 WORKING DAYS. IN CASE OF A LARGE SUBMITTAL OR MORE THAN ONE SUBMITTAL FOR THE SAME PROJECT, AN ADDITIONAL WORKING DAY IS REQUIRED FOR EVERY 5 DRAWINGS/SHEETS OVER 30 DRAWINGS/SHEETS. THE TIME INDICATED ABOVE IS FOR MCE REVIEW ONLY. CONTRACTOR MUST INCLUDE ENOUGH TIME FOR DELIVERY, ARCHITECTURAL REVIEW, AND OWNERS REVIEW AND WORK THIS TIME IN THE PROJECT SCHEDULE AS NEEDED.
14. THERE SHALL BE NO DEV

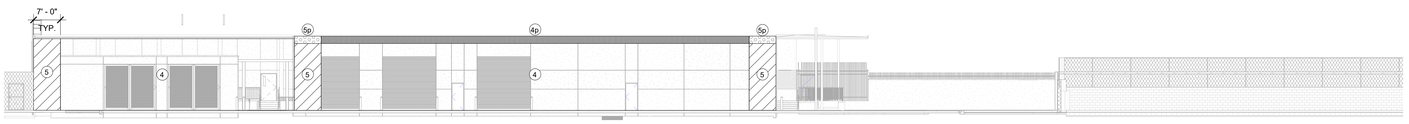


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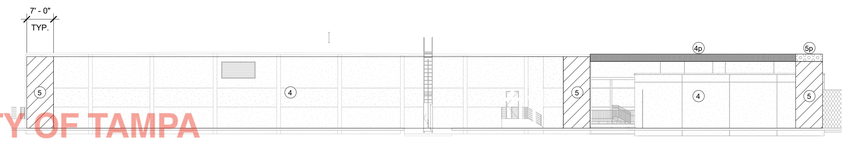
ROOF FRAMING PLAN - WIND DESIGN
SCALE: 1/16" = 1'-0"



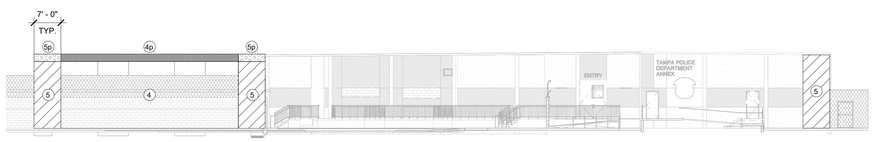
WIND SOUTH ELEVATION
SCALE: 1/16" = 1'-0"



WIND NORTH ELEVATION
SCALE: 1/16" = 1'-0"



WIND EAST ELEVATION
SCALE: 1/16" = 1'-0"



WIND WEST ELEVATION
SCALE: 1/16" = 1'-0"

LOAD SCHEDULE:

ROOF:	DEAD LOAD		
	ROOFING & INSULATION	=	8 PSF
	METAL DECK	=	3 PSF
	STEEL JOISTS	=	5 PSF
	MECH / ELECT	=	5 PSF
	PLUMBING	=	4 PSF
	CEILING & MISC.	=	5 PSF
			30 PSF
	LIVE LOAD	=	20 PSF
			50 PSF
FLOOR LOADS:			
	HIGH DENSITY STORAGE SHELVES RAILS	=	480 PLF MAX.

WIND DESIGN DATA:

CODE:
FLORIDA BUILDING CODE, 2023 (8th Ed.) ASCE/SEI 7-22

BASIC WIND SPEED	141 mph (Vult) 109 mph (Vasd)
CATEGORY (RISK)	III
EXPOSURE	C
BUILDING HEIGHT	19ft.
ENCLOSURE CLASSIFICATION	ENCLOSED
INTERNAL PRESSURE COEFFICIENT	± 0.18

* GLAZED OPENINGS IN RISK CATEGORY II, III, IV LOCATED IN HURRICANE PRONE REGIONS SHALL BE PROTECTED IN ACCORDANCE WITH FBC 2020 SEC. 1609.1.2

NOTE:

1. ALL EXTERIOR DOORS & WINDOW ASSEMBLIES SHALL SATISFY THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (8TH EDITION 2023, SECTION 1709.5). ALL CONNECTIONS TO BUILDING STRUCTURE SHALL HAVE THE CAPACITY TO WITHSTAND THE PRESSURES INDICATED ON SCHEDULES.
2. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.
3. ALL WIND PRESSURE VALUES INDICATED ARE IN POUNDS PER SQUARE FOOT (PSF). MULTIPLY ULTIMATE WIND PRESSURE BY 0.60 FOR ASD PRESSURE.
4. FOR NET UPLIFT CALCULATION, THE WEIGHT OF THE STRUCTURAL MEMBER AND THE STRUCTURAL DECK SUPPORTED ARE THE ONLY TWO LOADS THAT CAN BE DEDUCTED FROM THE UPLIFT PRESSURES INDICATED ON SCHEDULES.

FLAT ROOF
COMPONENTS AND CLADDING (ULTIMATE) UPLIFT PRESSURE SCHEDULE

PATTERN	ZONE	EFFECTIVE WIND AREA				
		10 sf	20 sf	50 sf	100 sf	500 sf
	1	+19 PSF/-72PSF	+17 PSF/-67PSF	+16 PSF/-61 PSF	+16 PSF/-56 PSF	+16 PSF/-45 PSF
	1'	+19 PSF/-41PSF	+17 PSF/-41PSF	+16 PSF/-41 PSF	+16 PSF/-41 PSF	+16 PSF/-28 PSF
	2	+19 PSF/-94PSF	+17 PSF/-88PSF	+16 PSF/-80 PSF	+16 PSF/-74 PSF	+16 PSF/-60 PSF
	3	+19 PSF/-128PSF	+17 PSF/-116PSF	+16 PSF/-100 PSF	+16 PSF/-88 PSF	+16 PSF/-60 PSF
	2ov	-127 PSF	-114 PSF	-95 PSF	-81 PSF	-45 PSF

WALLS
COMPONENTS AND CLADDING (ULTIMATE) PRESSURE SCHEDULE

PATTERN	ZONE	EFFECTIVE WIND AREA				
		10 sf	20 sf	50 sf	100 sf	500 sf
	4	+41 PSF/-45PSF	+39 PSF/-43PSF	+37 PSF/-40PSF	+35 PSF/-39PSF	+31 PSF/-34PSF
	5	+41 PSF/-55PSF	+39 PSF/-51PSF	+37 PSF/-47PSF	+35 PSF/-43PSF	+31 PSF/-34PSF
	4p	+42 PSF/-96PSF	+40 PSF/-90PSF	+38 PSF/-82PSF	+36 PSF/-76PSF	+32 PSF/-62PSF
	5p	+42 PSF/-131PSF	+40 PSF/-119PSF	+38 PSF/-103PSF	+36 PSF/-90PSF	+32 PSF/-62PSF

TO THE BEST OF OUR KNOWLEDGE INFORMATION AND BELIEF, THESE STRUCTURAL PLANS CONFORM TO AND SATISFY, THE FLORIDA BUILDING CODE, 8TH EDITION 2023, ACI 318-19 AND LOCAL CODES AS APPLICABLE

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BLD-25-0517072
9/3/2025

City of Tampa
CONSTRUCTION SERVICES DIVISION
PLANS APPROVAL
BLD-25-0517072 9/3/2025
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REVIEWED FOR CODE COMPLIANCE

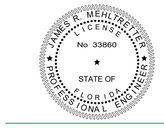
Architects Design Group
333 North Knowles Avenue
Winter Park, Florida 32789

HOWARD + ASSOCIATES
ARCHITECTS, P.A.
3030 Henderson Blvd., Ste. 2068
Tampa, FL 33609 • 813.872.8888

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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:
PERMIT DOCUMENTS

ISSUE DATE:
9/9/2024

REVISIONS:

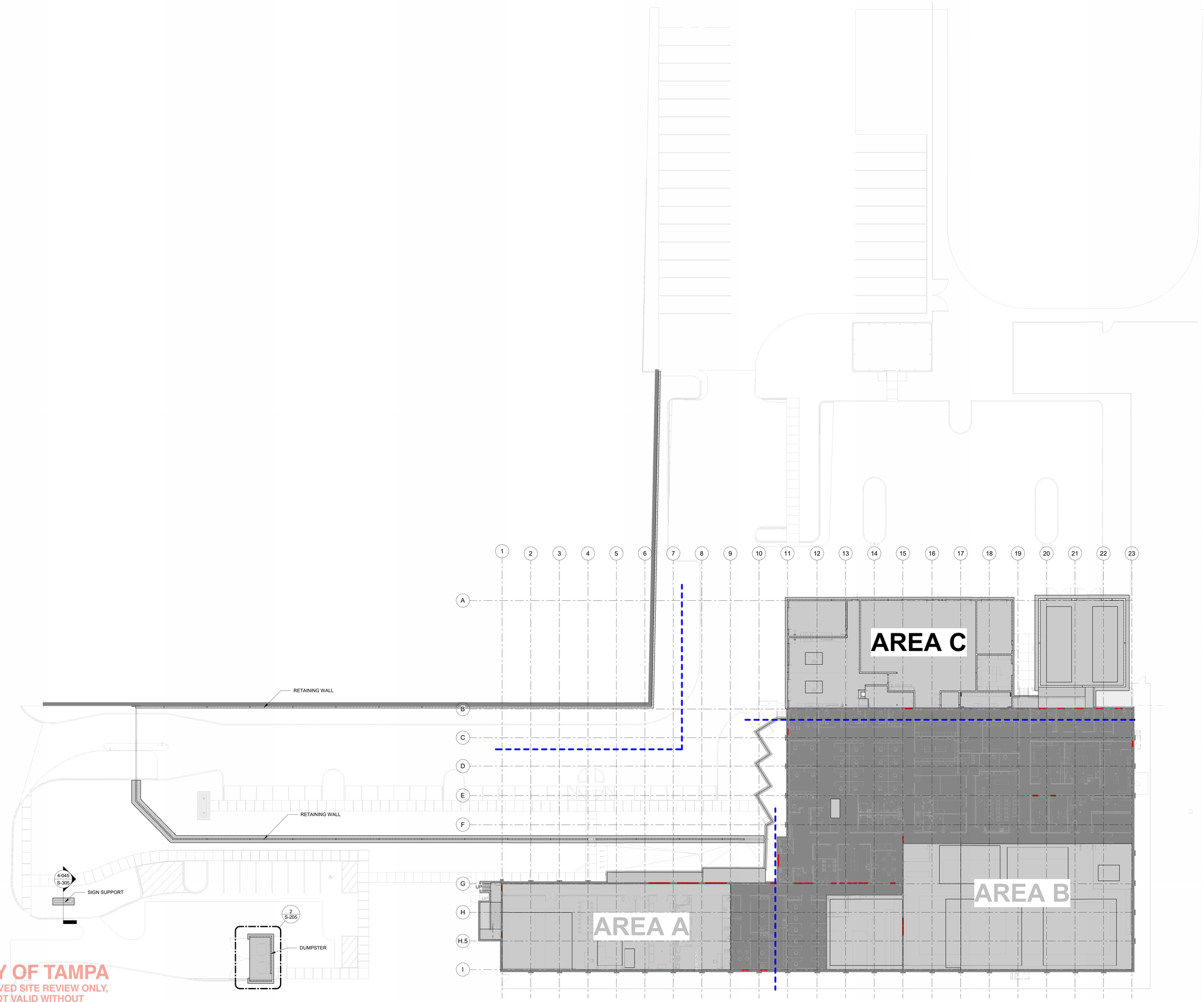
DRAWN BY: **DN/AN/VC**
CHECKED BY: **LB/NR/JM**

TPD HOWARD AVENUE ANNEX BUILDING

WIND DESIGN DATA AND LOAD SCHEDULE

TRUE PROJECT NORTH:

S-102



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BLD-25-051702
9/3/2025

N

SLAB ON GRADE - OVERALL KEYPLAN
SCALE: 1" = 20'-0"

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CONSTRUCTION SERVICES DIVISION
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BLD-25-051702 9/3/2025
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of any City or State Codes
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CA: 8426 PROJ NO. 3230-001

SIGNITURE AND SEAL:

JAMES R. MEHLTRETTER
LICENSE
No 33860
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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C.o.T. NO. **24-C-00032**

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ISSUE DATE:
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REVISIONS:

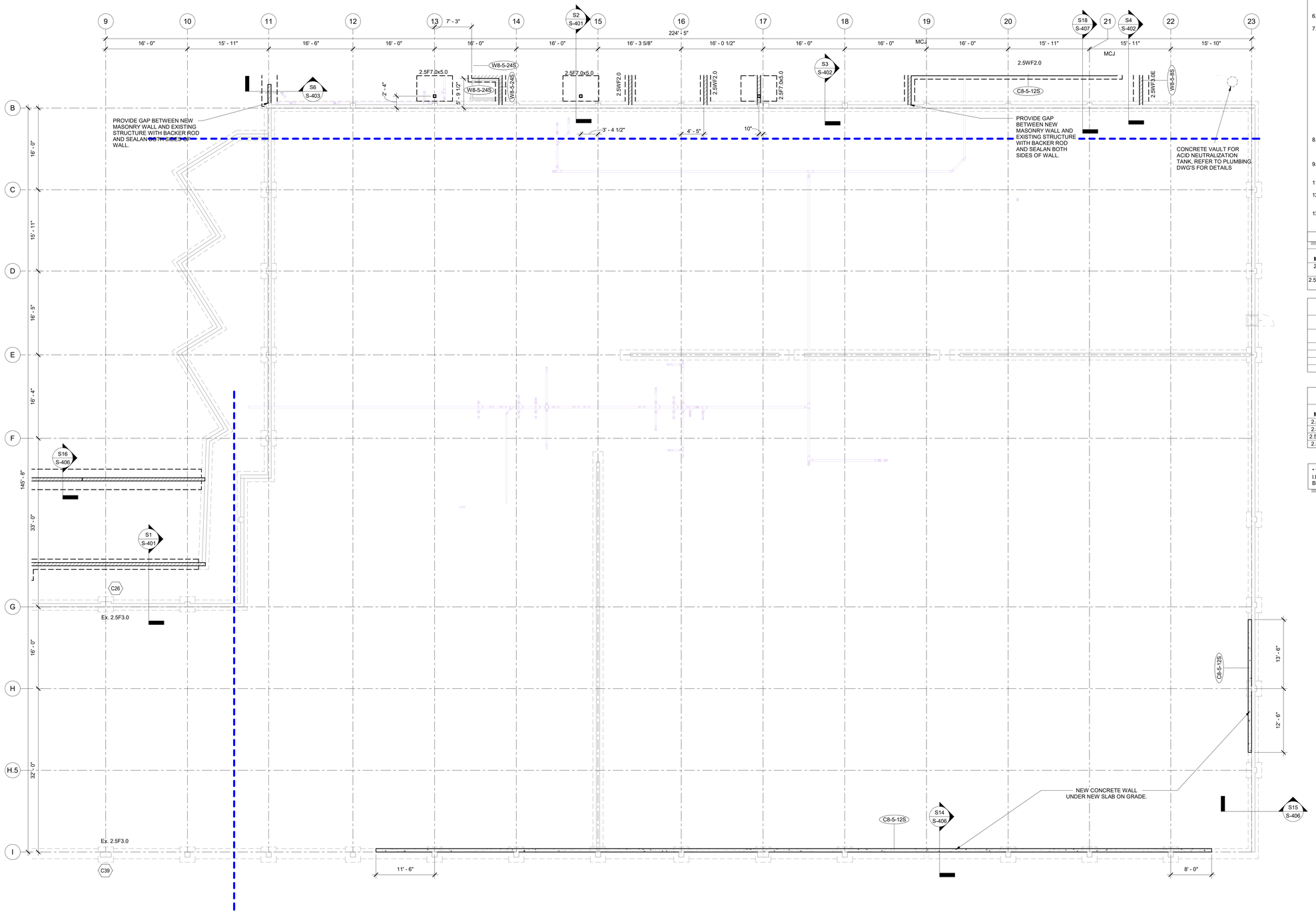
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CHECKED BY: **LB/NR/JM**

TPD HOWARD AVENUE ANNEX BUILDING

OVERALL SITE PLAN

TRUE PROJECT NORTH:

S-111



N

FOUNDATION PLAN - AREA B

SCALE: 1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. FOR TYPICAL FOUNDATION PLAN DETAILS, SEE DRAWINGS S301 & S302.
2. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING S101.
3. FOR FOOTING SIZE AND REINFORCING, SEE SCHEDULE ON THIS DRAWING.
4. ( ) DENOTES TOP OF FOOTING ELEVATION.
5. TOP OF FOOTING: ELEVATION @ INTERIOR = (-3' - 10") TYPICAL U.N.O. ELEVATION @ EXTERIOR = (-3' - 10") TYPICAL U.N.O.
6. FOR PLAN DIMENSIONS NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.
7. TYPICAL WALL REINFORCING SCHEDULE:
   - A. FOR CMU EXTERIOR WALL REINFORCING, SEE SCHEDULE THIS SHEET.
   - B. REINFORCING SHOWN ON SCHEDULE IS MINIMUM. SEE NOTES BELOW AND WALL ELEVATIONS FOR ADDITIONAL REINFORCING.
   - C. 8" CMU WALLS TO HAVE A SINGLE LAYER OF REINFORCEMEN, U.N.O.
   - D. 12" CMU WALLS TO HAVE A DOUBLE LAYER OF REINFORCEMENT (1 BAR AT EACH FACE), U.N.O.
   - E. ▣ INDICATES ADDITIONAL (1) VERTICAL IN GROUT FILLED CELL.
   - F. PROVIDE ADDITIONAL (1) VERTICAL IN FIRST (2) CELLS EACH SIDE OF ALL WALL OPENINGS, CORNERS AND INTERSECTIONS.

WALL OPENING | CORNER | INTERSECTION

8. ALL CMU WALLS SHALL BE REINFORCED AS SHOWN ON PLAN WITH DOWELS TO MATCH, U.N.O. ALL CELLS AT REINFORCING LOCATION SHALL BE FILLED WITH GROUT. PROVIDE INSPECTION/CLEANOUT HOLE AT BASE WHEN POUR HEIGHT IS GREATER THAN 4'-0".
9. WHERE FOOTING MARK NUMBER HAS A SUFFIX B, I.E., WF5.0B, THE REINFORCING INDICATED SHALL BE APPLIED TO BOTTOM OF FOOTING ONLY.
11. GROUT FILL ALL MASONRY BLOCK CELLS FOR STEM WALLS, WALLS BELOW GRADE AND MASONRY RETAINING WALLS.
12. MASONRY CONTROL JOINT SHOWN THUS ⊣ MCJ ON PLAN. MAXIMUM SPACING OF JOINTS = 24'-0", COORDINATE LOCATION WITH THE ARCH. BUILDING ELEVATIONS.
13. CONTRACTOR AND DELEGATED CANOPY DESIGNER TO COORDINATE AND ACCOUNT FOR ALL UNDERGROUND UTILITIES, FOUNDATIONS AND EXISTING CONDITIONS

COLUMN FOOTING SCHEDULE

MARK*	LENGTH	WIDTH	THICKNESS	TOP & BTM REINF.* EA. WAY U.N.O.	REMARKS
2.5F5.0	5' - 0"	5' - 0"	1' - 6"	(6)-#5	STD ACI HOOK
2.5F7.0x5.0	7' - 0"	5' - 0"	1' - 6"	(8)-#6	STD ACI HOOK

WALL SCHEDULE

TYPE	WALL THICKNESS	TYPE OF WALL	WALL REINF.	REMARKS
C8-5-12S	8"	CONCRETE	#5 AT 12" O.C.	#4 AT 12" O.C. HORIZONTAL
W8-5-8S	7 5/8"	CMU	#5 AT 8" O.C.	
W8-5-16S	7 5/8"	CMU	#5 AT 16" O.C.	
W8-5-24S	7 5/8"	CMU	#5 AT 24" O.C.	
W12-5-16D	11 5/8"	CMU	(2) #5 AT 16" O.C.	

WALL FOOTING SCHEDULE

MARK*	WIDTH	THICKNESS	TOP & BTM REINF. CONT.	TOP & BTM REINF. TRANSV.	REMARKS
2.5WF2.0	2' - 0"	1' - 4"	(4)-#5	#4 @ 24" O.C.	
2.5WF3.0	3' - 0"	1' - 4"	(4)-#5	#4 @ 16" O.C.	
2.5WF3.0E	3' - 0"	2' - 0"	(4)-#5	#4 @ 16" O.C.	
2.5WF4.0	4' - 0"	1' - 6"	(4)-#5	#5 @ 16" O.C.	

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CITY OF TAMPA
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333 North Knowles Avenue
Winter Park, Florida 32789

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ARCHITECTS, P.A.
3030 Henderson Blvd., Ste. 2068
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SIGNITURE AND SEAL:

JAMES M. MEHLTRETTER LICENSE No 33860 STATE OF FLORIDA PROFESSIONAL ENGINEER

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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:

PERMIT DOCUMENTS

ISSUE DATE:

9/9/2024

REVISIONS:

1	Date 1	Revision 1

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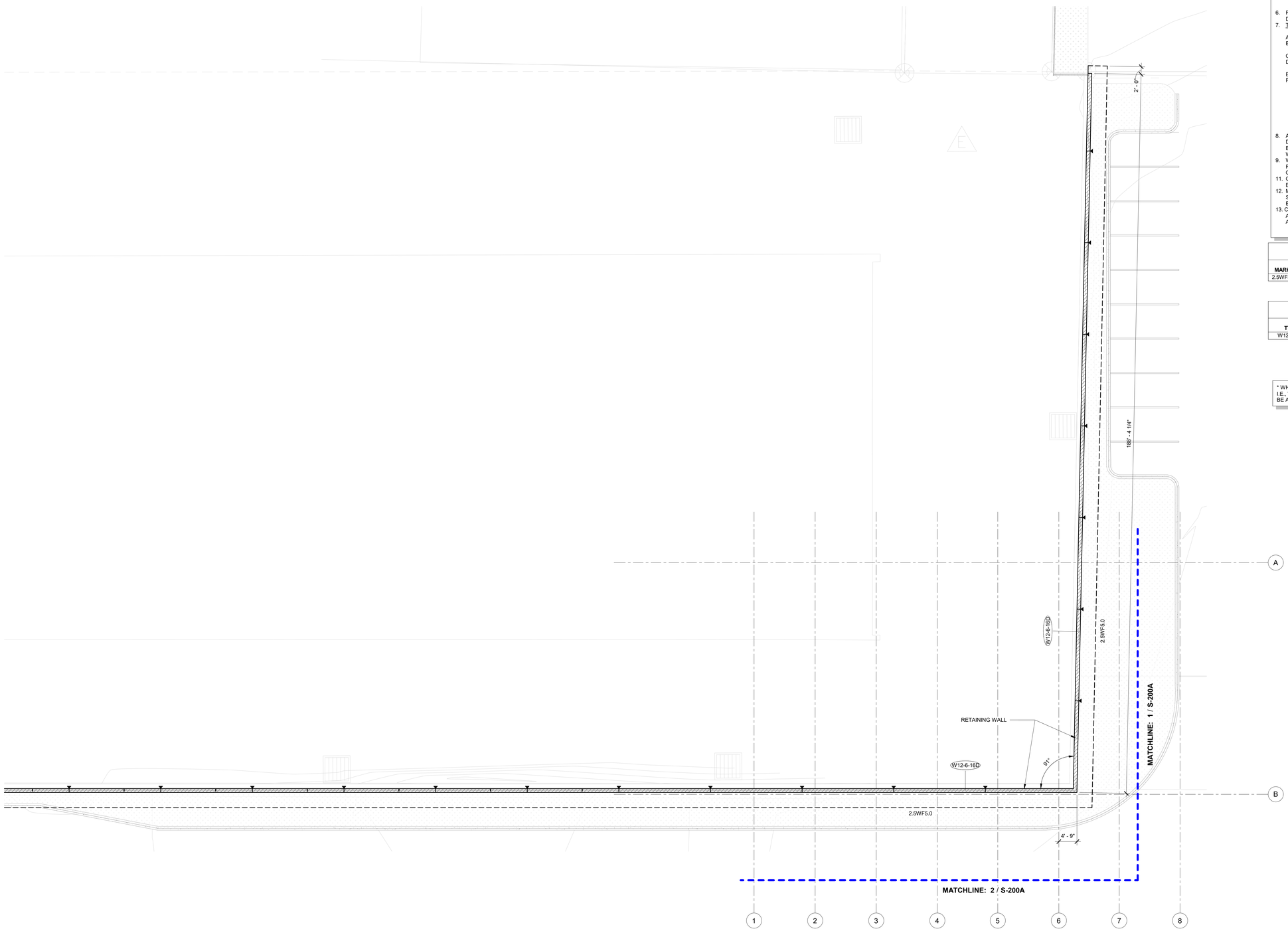
CHECKED BY: **LB/NR/JM**

TPD HOWARD AVENUE ANNEX BUILDING

FOUNDATION PLAN - AREA B

TRUE PROJECT NORTH:

S-200B



N

FOUNDATION PLAN - RETAINING WALL

SCALE: 3/32" = 1'-0"

FOUNDATION PLAN NOTES:

1. FOR TYPICAL FOUNDATION PLAN DETAILS, SEE DRAWINGS S301 & S302.
2. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING S101.
3. FOR FOOTING SIZE AND REINFORCING, SEE SCHEDULE ON THIS DRAWING.
4. ( ) DENOTES TOP OF FOOTING ELEVATION.
5. TOP OF FOOTING: ELEVATION @ INTERIOR = (-3' - 10") TYPICAL U.N.O. ELEVATION @ EXTERIOR = (-3' - 10") TYPICAL U.N.O.
6. FOR PLAN DIMENSIONS NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.
7. TYPICAL WALL REINFORCING SCHEDULE:
   A. FOR CMU EXTERIOR WALL REINFORCING, SEE SCHEDULE THIS SHEET.
   B. REINFORCING SHOWN ON SCHEDULE IS MINIMUM. SEE NOTES BELOW AND WALL ELEVATIONS FOR ADDITIONAL REINFORCING.
   C. 8" CMU WALLS TO HAVE A SINGLE LAYER OF REINFORCEMEN, U.N.O.
   D. 12" CMU WALLS TO HAVE A DOUBLE LAYER OF REINFORCEMENT (1 BAR AT EACH FACE), U.N.O.
   E. ■ INDICATES ADDITIONAL (1) VERTICAL IN GROUT FILLED CELL.
   F. PROVIDE ADDITIONAL (1) VERTICAL IN FIRST (2) CELLS EACH SIDE OF ALL WALL OPENINGS, CORNERS AND INTERSECTIONS.



8. ALL CMU WALLS SHALL BE REINFORCED AS SHOWN ON PLAN WITH DOWELS TO MATCH, U.N.O. ALL CELLS AT REINFORCING LOCATION SHALL BE FILLED WITH GROUT. PROVIDE INSPECTION/CLEANOUT HOLE AT BASE WHEN POUR HEIGHT IS GREATER THAN 4'-0".
9. WHERE FOOTING MARK NUMBER HAS A SUFFIX B, I.E., WF5.0B, THE REINFORCING INDICATED SHALL BE APPLIED TO BOTTOM OF FOOTING ONLY.
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13. CONTRACTOR AND DELEGATED CANOPY DESIGNER TO COORDINATE AND ACCOUNT FOR ALL UNDERGROUND UTILITIES, FOUNDATIONS AND EXISTING CONDITIONS

WALL FOOTING SCHEDULE - AT RETAINING WALL

MARK*	WIDTH	THICKNESS	TOP & BTM REINF. CONT.	TOP & BTM REINF. TRANSV.	REMARKS
2.5WF5.0	5' - 0"	2' - 0"	(6)-#5	#5 @ 16" O.C.	

WALL SCHEDULE - AT RETAINING WALL

TYPE	WALL THICKNESS	TYPE OF WALL	WALL REINF.	REMARKS
W12-6-16D	11 5/8"	CMU	(2) #6 AT 16" O.C.	

* WHERE FOOTING MARK NUMBER HAS A SUFFIX B, I.E., WF5.0B, THE REINFORCING INDICATED SHALL BE APPLIED TO BOTTOM OF FOOTING ONLY.

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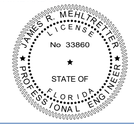
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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:

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ISSUE DATE:

9/9/2024

REVISIONS:

1	Date 1	Revision 1

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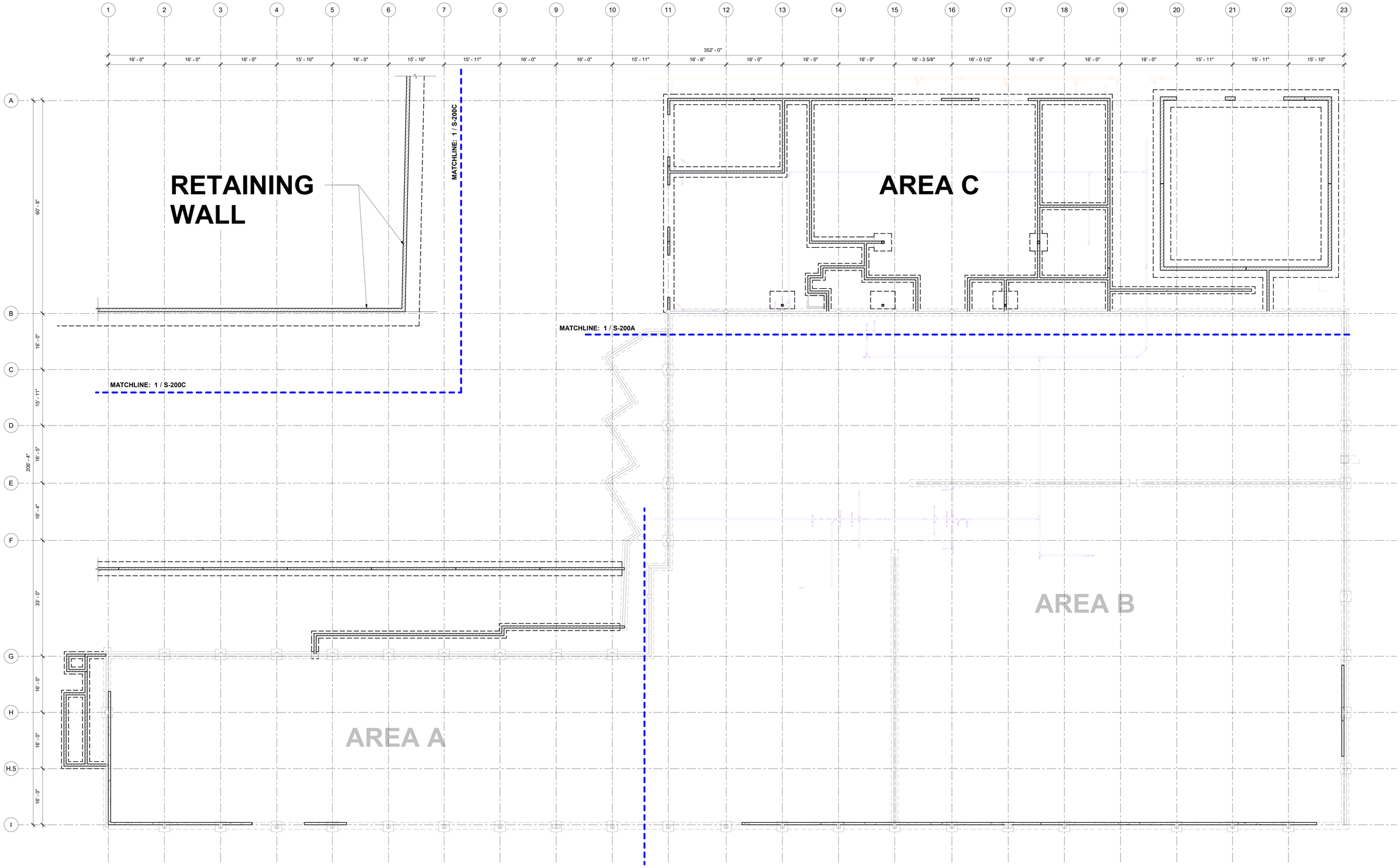
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TPD HOWARD AVENUE ANNEX BUILDING

FOUNDATION PLAN - RETAINING WALL

TRUE PROJECT NORTH:

S-200C



N

FOUNDATION PLAN - OVERALL

SCALE: 3/32" = 1'-0"

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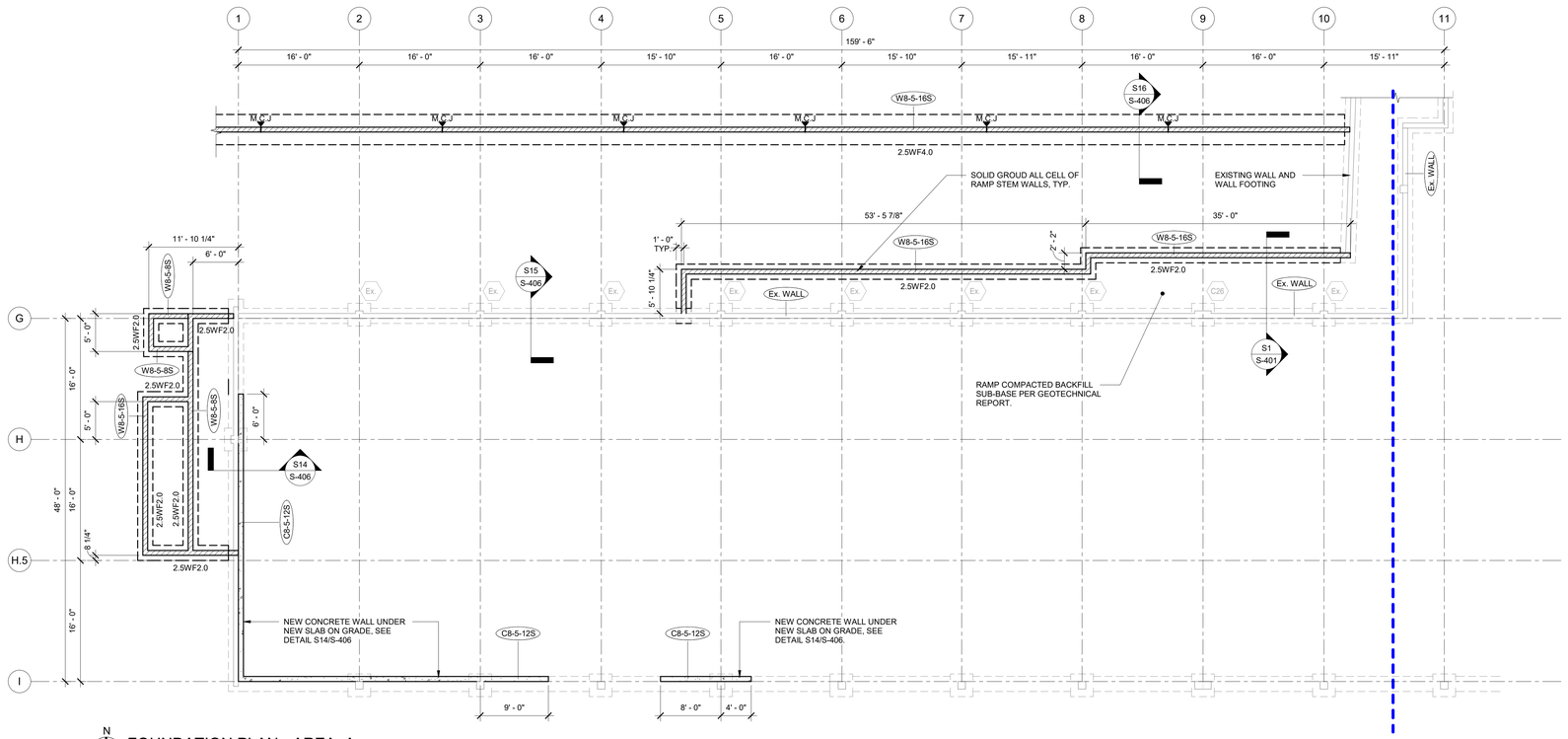
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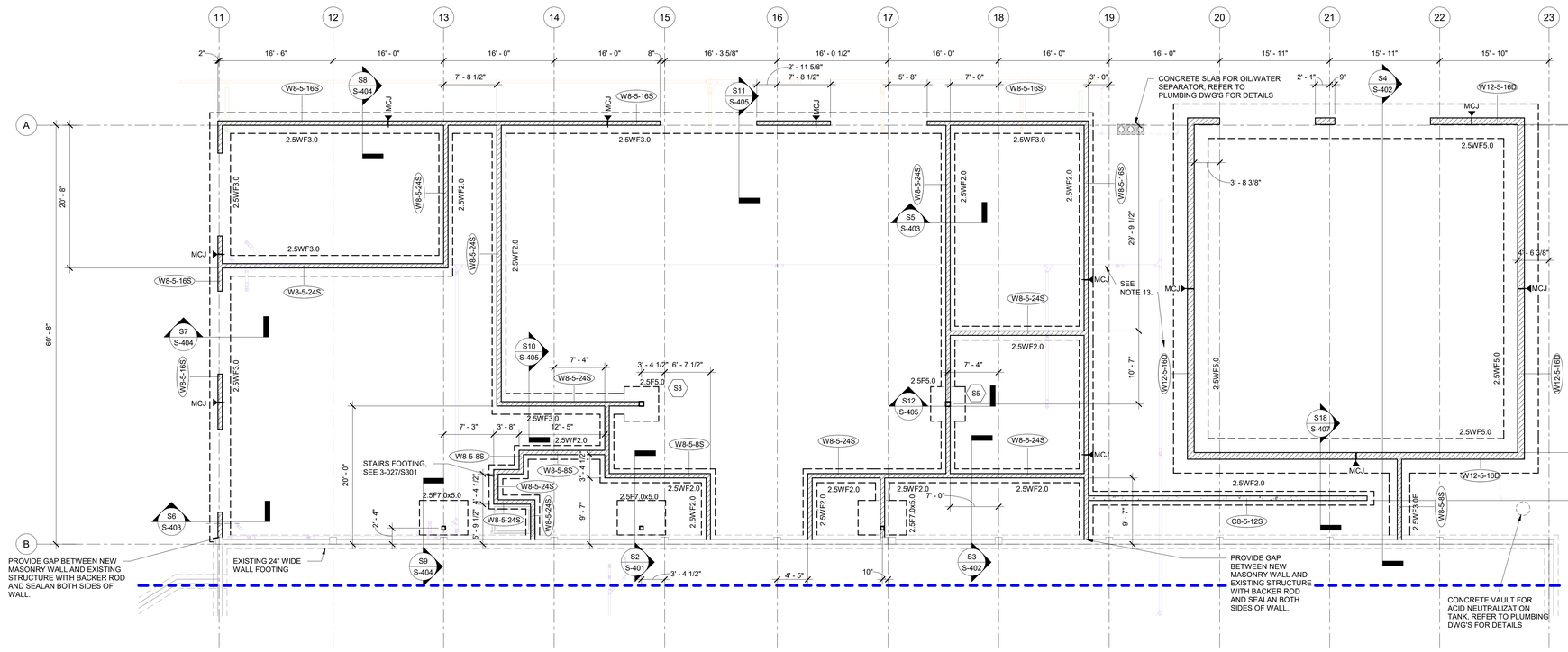
TPD HOWARD AVENUE ANNEX BUILDING

FOUNDATION PLAN - OVERALL

TRUE PROJECT NORTH:

S-200





FOUNDATION PLAN NOTES:

1. FOR TYPICAL FOUNDATION PLAN DETAILS, SEE DRAWINGS S301 & S302.
2. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING S101.
3. FOR FOOTING SIZE AND REINFORCING, SEE SCHEDULE ON THIS DRAWING.
4. ( ) DENOTES TOP OF FOOTING ELEVATION.
5. TOP OF FOOTING: ELEVATION @ INTERIOR = (-3' - 10") TYPICAL U.N.O.
   ELEVATION @ EXTERIOR = (-3' - 10") TYPICAL U.N.O.
6. FOR PLAN DIMENSIONS NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.
7. TYPICAL WALL REINFORCING SCHEDULE:
   A. FOR CMU EXTERIOR WALL REINFORCING, SEE SCHEDULE THIS SHEET.
   B. REINFORCING SHOWN ON SCHEDULE IS MINIMUM. SEE NOTES BELOW AND WALL ELEVATIONS FOR ADDITIONAL REINFORCING.
   C. 8" CMU WALLS TO HAVE A SINGLE LAYER OF REINFORCEMEN, U.N.O.
   D. 12" CMU WALLS TO HAVE A DOUBLE LAYER OF REINFORCEMENT (1 BAR AT EACH FACE), U.N.O.
   E. ▣ INDICATES ADDITIONAL (1) VERTICAL IN GROUT FILLED CELL.
   F. PROVIDE ADDITIONAL (1) VERTICAL IN FIRST (2) CELLS EACH SIDE OF ALL WALL OPENINGS, CORNERS AND INTERSECTIONS.



8. ALL CMU WALLS SHALL BE REINFORCED AS SHOWN ON PLAN WITH DOWELS TO MATCH, U.N.O. ALL CELLS AT REINFORCING LOCATION SHALL BE FILLED WITH GROUT. PROVIDE INSPECTION/CLEANOUT HOLE AT BASE WHEN POUR HEIGHT IS GREATER THAN 4'-0".
9. WHERE FOOTING MARK NUMBER HAS A SUFFIX B, I.E., WF5.0B, THE REINFORCING INDICATED SHALL BE APPLIED TO BOTTOM OF FOOTING ONLY.
11. GROUT FILL ALL MASONRY BLOCK CELLS FOR STEM WALLS, WALLS BELOW GRADE AND MASONRY RETAINING WALLS.
12. MASONRY CONTROL JOINT SHOWN THUS —◄MCJ ON PLAN. MAXIMUM SPACING OF JOINTS = 24'-0", COORDINATE LOCATION WITH THE ARCH. BUILDING ELEVATIONS.
13. CONTRACTOR AND DELEGATED CANOPY DESIGNER TO COORDINATE AND ACCOUNT FOR ALL UNDERGROUND UTILITIES, FOUNDATIONS AND EXISTING CONDITIONS

COLUMN FOOTING SCHEDULE

MARK*	LENGTH	WIDTH	THICKNESS	TOP & BTM REINF.* EA. WAY U.N.O.	REMARKS
2.5F5.0	5' - 0"	5' - 0"	1' - 6"	(6)-#5	STD ACI HOOK
2.5F7.0x5.0	7' - 0"	5' - 0"	1' - 6"	(8)-#6	STD ACI HOOK

WALL SCHEDULE

TYPE	WALL THICKNESS	TYPE OF WALL	WALL REINF.	REMARKS
C8-5-12S	8"	CONCRETE	#5 AT 12" O.C.	#4 AT 12" O.C. HORIZONTAL
W8-5-8S	7 5/8"	CMU	#5 AT 8" O.C.	
W8-5-16S	7 5/8"	CMU	#5 AT 16" O.C.	
W8-5-24S	7 5/8"	CMU	#5 AT 24" O.C.	
W12-5-16D	11 5/8"	CMU	(2) #5 AT 16" O.C.	

WALL FOOTING SCHEDULE

MARK*	WIDTH	THICKNESS	TOP & BTM REINF. CONT.	TOP & BTM REINF. TRANSV.	REMARKS
2.5WF2.0	2' - 0"	1' - 4"	(4)-#5	#4 @ 24" O.C.	
2.5WF3.0	3' - 0"	1' - 4"	(4)-#5	#4 @ 16" O.C.	
2.5WF3.0E	3' - 0"	2' - 0"	(4)-#5	#4 @ 16" O.C.	
2.5WF4.0	4' - 0"	1' - 6"	(4)-#5	#5 @ 16" O.C.	

* WHERE FOOTING MARK NUMBER HAS A SUFFIX B, I.E., WF5.0B, THE REINFORCING INDICATED SHALL BE APPLIED TO BOTTOM OF FOOTING ONLY.

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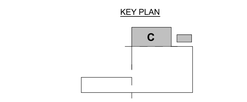
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TPD HOWARD AVENUE ANNEX BUILDING

FOUNDATION PLAN - AREA A & AREA C

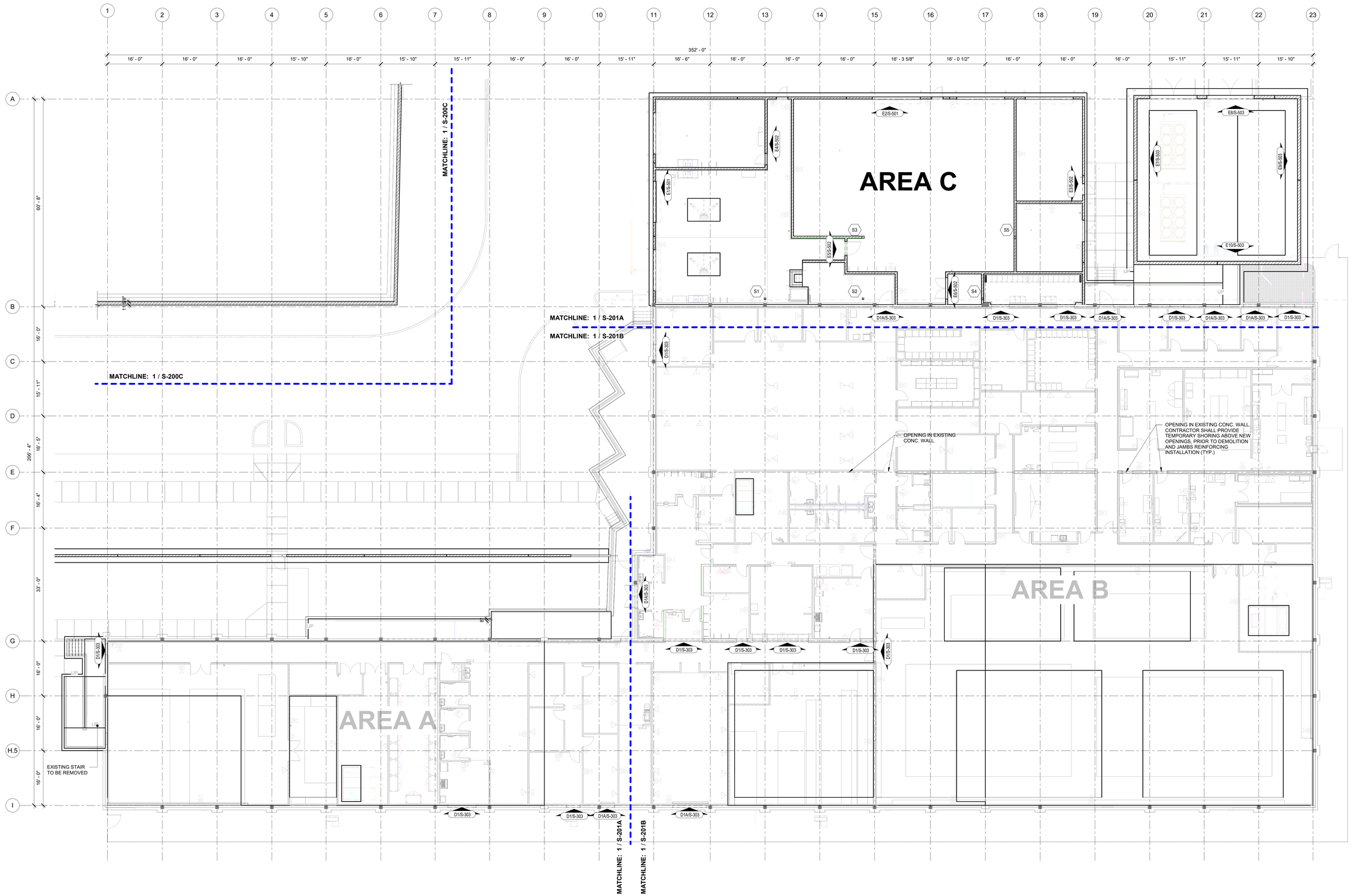
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KEY PLAN



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S-200A



N

SLAB ON GRADE - OVERALL PLAN

SCALE: 3/32" = 1'-0"

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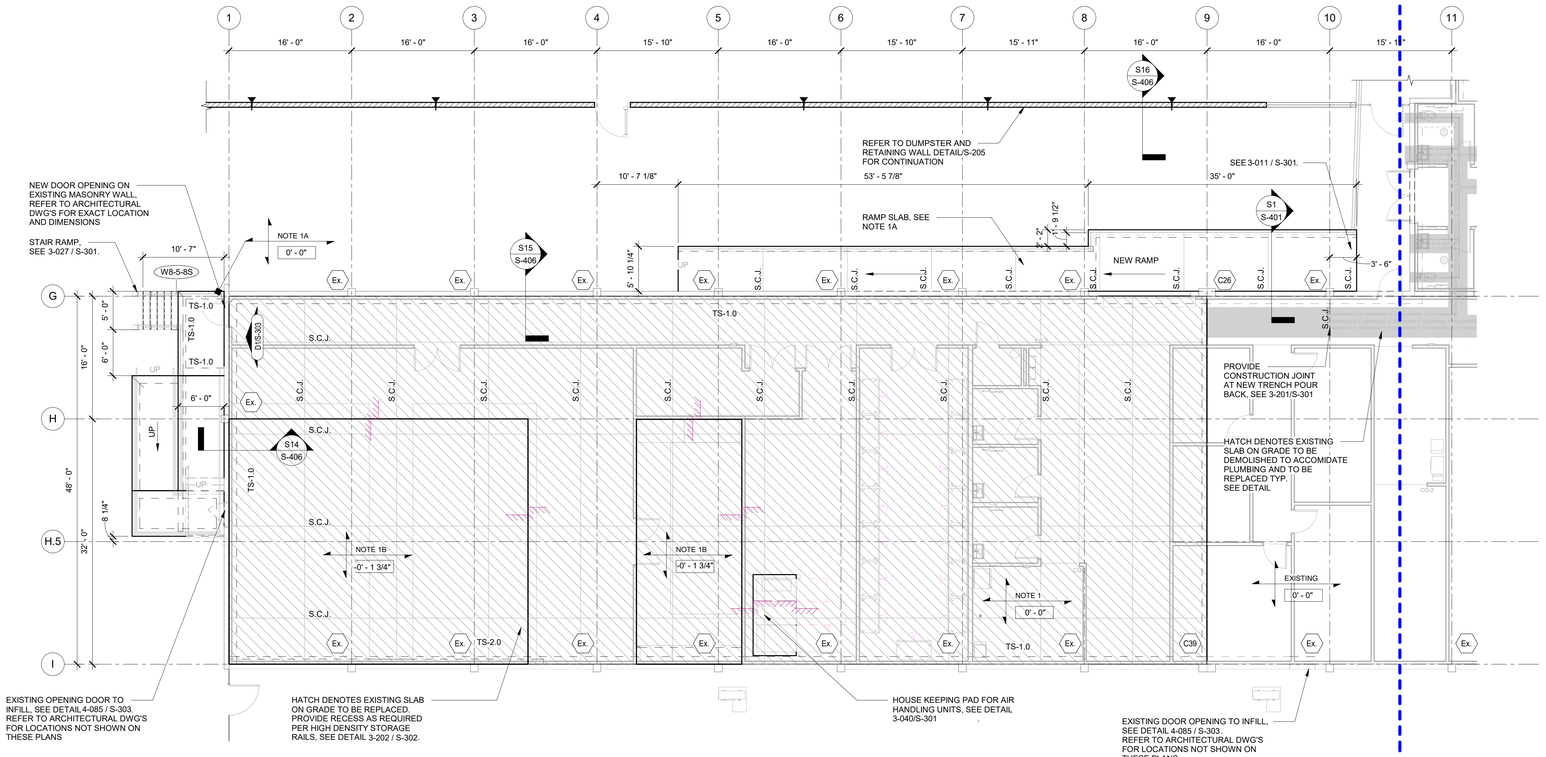
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TPD HOWARD AVENUE ANNEX BUILDING

SLAB ON GRADE PLAN - OVERALL

TRUE PROJECT NORTH:

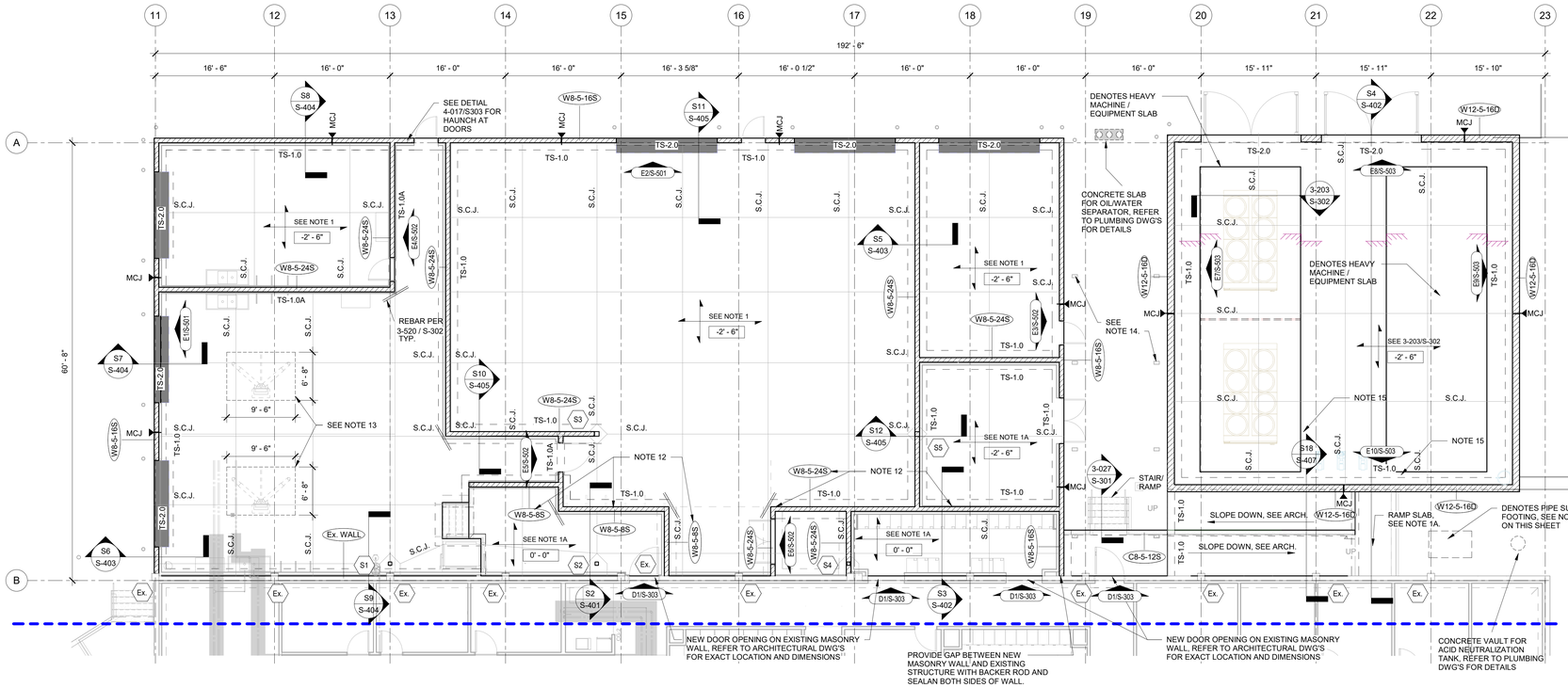
S-201



N

SLAB ON GRADE PLAN - AREA A

SCALE: 1/8" = 1'-0"



N

SLAB ON GRADE PLAN - AREA C

SCALE: 1/8" = 1'-0"

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SLAB ON GRADE PLAN NOTES:

1. SLAB ON GRADE TO BE 5" THICK CONCRETE OVER VAPOR BARRIER ON COMPACTED SUB-BASE AS PER GEOTECHNICAL REPORT REINFORCED WITH 4x4xW4.0xW4.0 W.W.F. (FLAT SHEETS) 2" BELOW TOP OF SLAB
1A. SLAB ON GRADE TO BE 4" THICK CONCRETE OVER VAPOR BARRIER ON COMPACTED SUB-BASE AS PER GEOTECHNICAL REPORT REINFORCED WITH 6x6xW2.9xW2.9 W.W.F. (FLAT SHEETS) CENTERED IN SLAB.
1B. SLAB ON GRADE TO BE 6" THICK CONCRETE OVER VAPOR BARRIER ON COMPACTED SUB-BASE AS PER GEOTECHNICAL REPORT, REINFORCED WITH #5@12"O.C. EACH WAY 2" BELOW TOP OF SLAB. , SEE 3-202/AS-302 FOR ADD'L REQUIREMENTS.
2. SUPPORT WELDED WIRE FABRIC WITH 2" & 3" SLAB BOLSTER OR APPROVED EQUAL @ 3'-0"(±) O.C. BOTH WAYS. USE OF CONCRETE BRICK IS NOT ALLOWED.
3. VAPOR BARRIER REQUIREMENTS/APPLICATION/INSTALLATION SHALL BE DONE AS PER ARCHITECTURAL OR MOISTURE CONSULTANT DOCUMENTS AND RECOMMENDATIONS. IF NONE ARE AVAILABLE, AT A MINIMUM THE FOLLOWING RECOMMENDATIONS SHALL BE FOLLOWED.
   A. VAPOR BARRIER SHALL CONFORM TO ASTM E-1745 , MEETS OR EXCEEDS CLASS "B".
   B. VAPOR BARRIER INSTALLATION SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS AND ASTM E 1643-98.
   C. UNROLL VAPOR BARRIER WITH THE LONGEST DIMENSION PARALLEL WITH THE DIRECTION OF THE POUR.
   D. LAP VAPOR BARRIER OVER FOOTINGS AND SEAL TO FOUNDATION WALLS.
   E. OVERLAP JOINTS 6 INCHES AND SEAL WITH MANUFACTURER'S TAPE.
   F. SEAL ALL PENETRATIONS (INCLUDING PIPES) WITH MANUFACTURER'S PIPE BOOT.
   G. NO PENETRATION OF THE VAPOR BARRIER IS ALLOWED EXCEPT FOR REINFORCING STEEL AND PERMANENT UTILITIES.
   H. REPAIR DAMAGED AREAS BY CUTTING PATCHES OF VAPOR BARRIER, OVERLAPPING DAMAGED AREA 6 INCHES AND TAPING ALL FOUR SIDES WITH TAPE.
   I. MINIMUM 15-MIL THICK POLYOLEFIN GEOMEMBRANE.
4. TOP OF SLAB ELEVATION SHOWN THUS [·-·] ON PLAN EQUALS REFERENCE EL., FOR ACTUAL EL., SEE CIVIL DRAWINGS.
5. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING S101.
6. FOR FLOOR SLAB DEPRESSION LOCATIONS AND LIMITS NOT SHOWN ON PLAN SEE ARCHITECTURAL DRAWINGS.
7. FOR PLAN DIMENSIONS NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.
8. COORDINATE LOCATION OF (CJ) CONTROL JOINTS (SAWCUTS & TOOLED JOINTS) AT WALKWAY SLABS WITH ARCHITECTURAL DRAWINGS. CONTROL JOINTS AT EXPOSED TO WEATHER WALKWAYS SHALL BE TOOLED JOINTS SEE TYPICAL DETAIL 3-201 ON S301.
9. ALL CMU WALLS SHALL BE REINFORCED AS SHOWN ON PLAN WITH DOWELS TO MATCH, U.N.O. ALL CELLS AT REINFORCING LOCATION SHALL BE FILLED WITH GROUT. PROVIDE INSPECTION/CLEANOUT HOLE AT BASE WHEN POUR HEIGHT IS GREATER THAN 4'-0".
10. GENERAL CONTRACTOR TO COORDINATE LOCATION OF ALL WALL PENETRATIONS REQUIRED FOR MECHANICAL EQUIPMENT AND PROVIDE A PRECAST LINTEL AT ALL OPENINGS REFER TO TYPICAL DETAIL 4-004 ON S302.
11. MASONRY CONTROL JOINT SHOWN THUS ⟝ MCJ ON PLAN. MAXIMUM SPACING OF JOINTS = 24' - 0". COORDINATE LOCATION WITH THE ARCH. & STRUCT WALL ELEVATIONS. DO NOT LOCATE A MCJ CLOSER THAN 24" TO ANY CMU OPENING, SEE 4-002/S-302 FOR MORE DETAILS.
12. FULLY GROUT WALL AND REINFORCED WITH #5@8"O.C. BELOW 0'-0" ELEVATION. REINFORCE WALL WITH #5@24"O.C. ABOVE 0'-0"
13. PROVIDE MONOLITHIC PAD FOR PSP - 600 PORTABLE SINGLE POST LIFT EQUIPMENT, AS REQUIRED BY MANUFACTURER. MINIMUM THICKNESS 8" REINFORCED WITH #4@10"O.C. TOP & BOTT. EACH WAY. TORSIONAL MOMENT REACTIONS MUST NOT BE TRANSFERRED TO SLAB, UNLESS REVIEWED BY EOR.
14. CONTRACTOR AND DELEGATED CANOPY DESIGNER TO COORDINATE AND ACCOUNT FOR ALL UNDERGROUND UTILITIES, FOUNDATIONS AND EXISTING CONDITIONS
15. COORDINATE LOCATION OF CHILLER PIPE SUPPORTS WITH MECHANICAL DWG'S AND SPECIFICATIONS. SEE DETAIL D6/S-305 FOR FOOTING AND STEEL FRAMES REQUIREMENTS.

EXISTING SLAB ON GRADE RENOVATION NOTES:

1. EXISTING SLAB ON GRADE CONSIST OF 4" CONCRETE SLAB (3000 PSI) REINFORCED WITH FIBER MESH ON 4" DRAINAGE FILL W/ 10 MIL POLYETHYLENE VAPOR BARRIER (VERIFY IN FIELD).
2. PRIOR TO PARTIAL REMOVAL OF SLAB FOR BELOW GRADE INSTALLATIONS, THE EXISTING SLAB SHALL BE SCANNED TO VERIFY ITS STRUCTURAL FRAMING CONFIGURATION AND REINFORCEMENT, AS INDICATED IN NOTE 1. SPECIAL CARE SHALL BE TAKEN TO VERIFY THAT THE SLAB ON GRADE NEITHER CONTAINS POST-TENSION CABLES NOR IS SUPPORTED BY GRADE BEAMS (STRUCTURAL SLAB).
3. IF EXISTING SLAB ON GRADE IS NOT A FLOATING SLAB SUPPORTED OVER THE SOIL AND REINFORCED WITH WELDED WIRE FABRIC, EOR MUST BE NOTIFIED AND CONSULTED REGARDING THE PROCESS OF CUTTING THE SLAB.
4. IF EXISTING SLAB ON GRADE IS A FLOATING SLAB SUPPORTED OVER THE SOIL AND REINFORCED WITH WELDED WIRE FABRIC, REMOVE AND REPAIR SLAB ACCORDING TO THE FOLLOWING PROCESS:
   - TAKING CARE TO MAINTAIN INTEGRITY OF VAPOR BARRIER BELOW, SAW-CUT SLAB TO 3/4 OF CONCRETE DEPTH AND BREAK THROUGH REMAINING THICKNESS WITH A SLEDGEHAMMER.
   - ONCE THE CONCRETE IS REMOVED, CAREFULLY CUT THROUGH CENTER OF EXPOSED VAPOR BARRIER AND FOLD OUT FOR INSTALLATION OF BELOW GRADE CONDUITS.
   - UPON COMPLETION OF CONDUIT INSTALLATION, BACKFILL OPENING IN SLAB WITH SOIL AND COMPACT TO A MINIMUM OF 98% COMPACTION.
   - FOLD BACK AND SPLICE/PATCH VAPOR BARRIER TO CODE REQUIREMENTS.
5. NEW SLAB TO MATCH EXISTING SLAB THICKNESS AND TO BE REINFORCED WITH 4x4xW4.0xW4.0 W.W.F. (FLAT SHEETS) 2" FROM THE TOP OF THE SLAB. SLAB POUR BACK TO MATCH EXISTING TOP OF SLAB, FOLLOW DETAIL 3-216.
6. SUPPORT WELDED WIRE FABRIC WITH A SLAB BOLSTER OR APPROVED EQUAL @ 3'-0"(±) O.C. BOTH WAYS. USE OF CONCRETE BRICK IS NOT ALLOWED.
7. TOP OF SLAB ELEVATION SHOWN THUS [·-·] ON PLAN EQUALS REFERENCE ELEVATION.
8. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING S101.
9. GENERAL CONTRACTOR TO NOTIFY LOCATION OF ALL WALL PENETRATIONS REQUIRED FOR MECHANICAL EQUIPMENT NOT SHOWN IN THE STRUCTURAL PLANS. NEW OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS ARE NOT ALLOWED BEFORE APPROVAL OF EOR.
10. REFER TO ARCHITECTURAL AND PLUMBING DWG'S (MEP) FOR UTILITY LINES ROUTE PATH AND LAYOUT OF NEW SLAB ON GRADE.

THICKENED SLAB SCHEDULE

MARK*	SIZE	THICKNESS	TOP & BOTT.* REINF. CONT.	TOP & BOTT.* REINF. TRANSV.	REMARKS
TS-1.0	1' - 0" x CONT.	1' - 0"	(2)-#5	#4 @ 24" O.C.	
TS-2.0	1' - 0" x CONT.	1' - 4"	(3)-#5	#4 @ 16" O.C.	

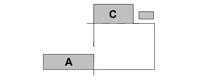
WALL SCHEDULE

TYPE	WALL THICKNESS	TYPE OF WALL	WALL REINF.	REMARKS
C8-5-12S	8"	CONCRETE	#5 AT 12" O.C.	#4 AT 12" O.C. HORIZONTAL
W8-5-8S	7 5/8"	CMU	#5 AT 8" O.C.	
W8-5-16S	7 5/8"	CMU	#5 AT 16" O.C.	
W8-5-24S	7 5/8"	CMU	#5 AT 24" O.C.	
W12-5-16D	11 5/8"	CMU	(2) #5 AT 16" O.C.	

FLOOR LEGEND:

- DENOTES EXISTING SLAB TO BE REMOVED AND REPLACED
- DENOTE SLAB TO BE PATCH AND RESURFACED
- DENOTES EXISTING SLAB TO BE REMOVED AND REPLACED FOR PLUMBING

KEY PLAN



5 0 5 10 15 20
1/8" = 1'-0" SCALE FEET

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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:

PERMIT DOCUMENTS

ISSUE DATE:

9/9/2024

REVISIONS:

DRAWN BY: **DN/AN/VC**

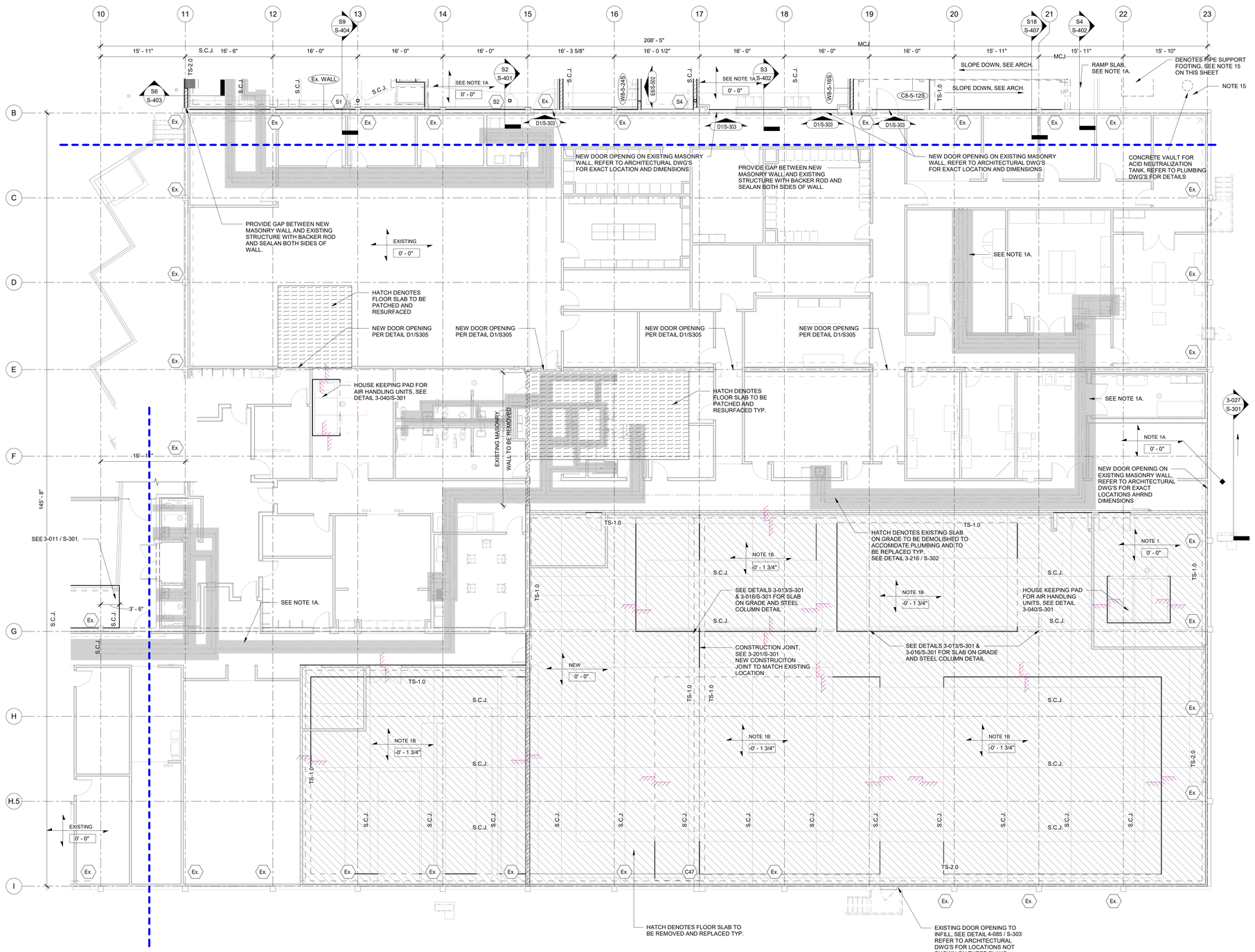
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TPD HOWARD AVENUE ANNEX BUILDING

SLAB ON GRADE PLAN - AREA A & AREA C

TRUE PROJECT NORTH:

S-201A



N

SLAB ON GRADE PLAN - AREA B

SCALE: 1/8" = 1'-0"

SLAB ON GRADE PLAN NOTES:

1. SLAB ON GRADE TO BE 5" THICK CONCRETE OVER VAPOR BARRIER ON COMPACTED SUB-BASE AS PER GEOTECHNICAL REPORT REINFORCED WITH 4x4xW4.0xW4.0 W.W.F. (FLAT SHEETS) 2" BELOW TOP OF SLAB
1A. SLAB ON GRADE TO BE 4" THICK CONCRETE OVER VAPOR BARRIER ON COMPACTED SUB-BASE AS PER GEOTECHNICAL REPORT REINFORCED WITH 6x6xW2.9xW2.9 W.W.F. (FLAT SHEETS) CENTERED IN SLAB.
1B. SLAB ON GRADE TO BE 6" THICK CONCRETE OVER VAPOR BARRIER ON COMPACTED SUB-BASE AS PER GEOTECHNICAL REPORT, REINFORCED WITH #5@12"O.C. EACH WAY 2" BELOW TOP OF SLAB. , SEE 3-202A/S-302 FOR ADD'L REQUIREMENTS.
2. SUPPORT WELDED WIRE FABRIC WITH 2" & 3" SLAB BOLSTER OR APPROVED EQUAL @ 3'-0"(s) O.C. BOTH WAYS. USE OF CONCRETE BRICK IS NOT ALLOWED.
3. VAPOR BARRIER REQUIREMENTS/APPLICATIONINSTALLATION SHALL BE DONE AS PER ARCHITECTURAL OR MOISTURE CONSULTANT DOCUMENTS AND RECOMMENDATIONS. IF NONE ARE AVAILABLE, AT A MINIMUM THE FOLLOWING RECOMMENDATIONS SHALL BE FOLLOWED.
   A. VAPOR BARRIER SHALL CONFORM TO ASTM E-1745 , MEETS OR EXCEEDS CLASS "B".
   B. VAPOR BARRIER INSTALLATION SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS AND ASTM E 1643-98.
   C. UNROLL VAPOR BARRIER WITH THE LONGEST DIMENSION PARALLEL WITH THE DIRECTION OF THE POUR.
   D. LAP VAPOR BARRIER OVER FOOTINGS AND SEAL TO FOUNDATION WALLS.
   E. OVERLAP JOINTS 6 INCHES AND SEAL WITH MANUFACTURER'S TAPE.
   F. SEAL ALL PENETRATIONS (INCLUDING PIPES) WITH MANUFACTURER'S PIPE BOOT.
   G. NO PENETRATION OF THE VAPOR BARRIER IS ALLOWED EXCEPT FOR REINFORCING STEEL AND PERMANENT UTILITIES.
   H. REPAIR DAMAGED AREAS BY CUTTING PATCHES OF VAPOR BARRIER, OVERLAPPING DAMAGED AREA 6 INCHES AND TAPING ALL FOUR SIDES WITH TAPE.
   I. MINIMUM 15-MIL THICK POLYOLEFIN GEOMEMBRANE.
4. TOP OF SLAB ELEVATION SHOWN THUS [' - "] ON PLAN EQUALS REFERENCE EL., FOR ACTUAL EL., SEE CIVIL DRAWINGS.
5. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING S101.
6. FOR FLOOR SLAB DEPRESSION LOCATIONS AND LIMITS NOT SHOWN ON PLAN SEE ARCHITECTURAL DRAWINGS.
7. FOR PLAN DIMENSIONS NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.
8. COORDINATE LOCATION OF (CJ) CONTROL JOINTS (SAWCUTS & TOOLED JOINTS) AT WALKWAY SLABS WITH ARCHITECTURAL DRAWINGS. CONTROL JOINTS AT EXPOSED TO WEATHER WALKWAYS SHALL BE TOOLED JOINTS SEE TYPICAL DETAIL 3-201 ON S301.
9. ALL CMU WALLS SHALL BE REINFORCED AS SHOWN ON PLAN WITH DOWELS TO MATCH, U.N.O. ALL CELLS AT REINFORCING LOCATION SHALL BE FILLED WITH GROUT. PROVIDE INSPECTION/CLEANOUT HOLE AT BASE WHEN POUR HEIGHT IS GREATER THAN 4'-0"
10. GENERAL CONTRACTOR TO COORDINATE LOCATION OF ALL WALL PENETRATIONS REQUIRED FOR MECHANICAL EQUIPMENT AND PROVIDE A PRECAST LINTEL AT ALL OPENINGS REFER TO TYPICAL DETAIL 4-004 ON S302.
11. MASONRY CONTROL JOINT SHOWN THUS ◄ MCJ ON PLAN. MAXIMUM SPACING OF JOINTS = 24' - 0", COORDINATE LOCATION WITH THE ARCH. & STRUCT WALL ELEVATIONS. DO NOT LOCATE A MCJ CLOSER THAN 24" TO ANY CMU OPENING, SEE 4-002/S-302 FOR MORE DETAILS.
12. FULLY GROUT WALL AND REINFORCED WITH #5@8"O.C. BELOW 0'-0" ELEVATION. REINFORCE WALL WITH #5@24"O.C. ABOVE 0'-0"
13. PROVIDE MONOLITHIC PAD FOR PSP - 600 PORTABLE SINGLE POST LIFT EQUIPMENT, AS REQUIRED BY MANUFACTURER. MINIMUM THICKNESS 8" REINFORCED WITH #4@10"O.C. TOP & BOTT. EACH WAY. TORSIONAL MOMENT REACTIONS MUST NOT BE TRANSFERRED TO SLAB, UNLESS REVIEWED BY EOR.
14. CONTRACTOR AND DELEGATED CANOPY DESIGNER TO COORDINATE AND ACCOUNT FOR ALL UNDERGROUND UTILITIES, FOUNDATIONS AND EXISTING CONDITIONS.
15. COORDINATE LOCATION OF CHILLER PIPE SUPPORTS WITH MECHANICAL TWO STAND SPECIFICATIONS, SEE DETAIL 3-216/S-302 FOR REQUIRED SLAB REINFORCEMENT AND MINIMUM FILL W/ 10 MIL POLYETHLENE VAPOR BARRIER (VERIFY IN FIELD).

EXISTING SLAB ON GRADE RENOVATION NOTES:

1. CONTRACTOR TO COORDINATE CONCRETE SLAB (3000 PSI) REMOVAL WITH ARCHITECTURAL DRAWINGS. SEE DETAILS FOR REQUIRED SLAB REINFORCEMENT AND MINIMUM FILL W/ 10 MIL POLYETHLENE VAPOR BARRIER (VERIFY IN FIELD).
2. PRIOR TO PARTIAL REMOVAL OF SLAB FOR BELOW GRADE INSTALLATIONS, THE EXISTING SLAB SHALL BE SCANNED TO VERIFY ITS STRUCTURAL FRAMING CONFIGURATION AND REINFORCEMENT, AS INDICATED IN NOTE 1. SPECIAL CARE SHALL BE TAKEN TO VERIFY THAT THE SLAB ON GRADE NEITHER CONTAINS POST-TENSION CABLES NOR IS SUPPORTED BY GRADE BEAMS (STRUCTURAL SLAB).
3. IF EXISTING SLAB ON GRADE IS NOT A FLOATING SLAB SUPPORTED OVER THE SOIL AND REINFORCED WITH WELDED WIRE FABRIC, EOR MUST BE NOTIFIED AND CONSULTED REGARDING THE PROCESS OF CUTTING THE SLAB.
4. IF EXISTING SLAB ON GRADE IS A FLOATING SLAB SUPPORTED OVER THE SOIL AND REINFORCED WITH WELDED WIRE FABRIC, REMOVE AND REPAIR SLAB ACCORDING TO THE FOLLOWING PROCESS:
   - TAKING CARE TO MAINTAIN INTEGRITY OF VAPOR BARRIER BELOW, SAW-CUT SLAB TO 3/4 OF CONCRETE DEPTH AND BREAK THROUGH REMAINING THICKNESS WITH A SLEDGEHAMMER.
   - ONCE THE CONCRETE IS REMOVED, CAREFULLY CUT THROUGH CENTER OF EXPOSED VAPOR BARRIER AND FOLD OUT FOR INSTALLATION OF BELOW GRADE CONDUITS.
   - UPON COMPLETION OF CONDUIT INSTALLATION, BACKFILL OPENING IN SLAB WITH SOIL AND COMPACT TO A MINIMUM OF 98% COMPACTION.
   - FOLD BACK AND SPLICE/PATCH VAPOR BARRIER TO CODE REQUIREMENTS.
5. NEW SLAB TO MATCH EXISTING SLAB THICKNESS AND TO BE REINFORCED WITH 4x4xW4.0xW4.0 W.W.F. (FLAT SHEETS) 2" FROM THE TOP OF THE SLAB. SLAB POUR BACK TO MATCH EXISTING TOP OF SLAB, FOLLOW DETAIL 3-216.
6. SUPPORT WELDED WIRE FABRIC WITH A SLAB BOLSTER OR APPROVED EQUAL @ 3'-0"(s) O.C. BOTH WAYS. USE OF CONCRETE BRICK IS NOT ALLOWED.
7. TOP OF SLAB ELEVATION SHOWN THUS [' - "] ON PLAN EQUALS REFERENCE ELEVATION
8. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING S101.
9. GENERAL CONTRACTOR TO NOTIFY LOCATION OF ALL WALL PENETRATIONS REQUIRED FOR MECHANICAL EQUIPMENT NOT SHOWN IN THE STRUCTURAL PLANS. NEW OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS ARE NOT ALLOWED BEFORE APPROVAL OF EOR.
10. REFER TO ARCHITECTURAL AND PLUMBING DWG'S (MEP) FOR UTILITY LINES ROUTE PATH AND LAYOUT OF NEW SLAB ON GRADE.

THICKENED SLAB SCHEDULE

MARK*	SIZE	THICKNESS	TOP & BOTT.* REINF. CONT.	TOP & BOTT.* REINF. TRANSV.	REMARKS
TS-1.0	1' - 0" x CONT.	1' - 0"	(2)-#5	#4 @ 24" O.C.	
TS-2.0	1' - 0" x CONT.	1' - 4"	(3)-#5	#4 @ 16" O.C.	

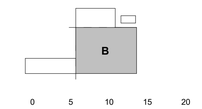
WALL SCHEDULE

TYPE	WALL THICKNESS	TYPE OF WALL	WALL REINF.	REMARKS
C8-5-12S	8"	CONCRETE	#5 AT 12" O.C.	#4 AT 12" O.C. HORIZONTAL
W8-5-8S	7 5/8"	CMU	#5 AT 8" O.C.	
W8-5-16S	7 5/8"	CMU	#5 AT 16" O.C.	
W8-5-24S	7 5/8"	CMU	#5 AT 24" O.C.	
W12-5-16D	11 5/8"	CMU	(2) #5 AT 16" O.C.	

FLOOR LEGEND:

- DENOTES EXISTING SLAB TO BE REMOVED AND REPLACED
- DENOTE SLAB TO BE PATCH AND RESURFACED
- DENOTES EXISTING SLAB TO BE REMOVED AND REPLACED FOR PLUMBING

KEY PLAN



5 0 5 10 15 20
1/8" = 1'-0"
SCALE FEET

TO THE BEST OF OUR KNOWLEDGE INFORMATION AND BELIEF, THESE STRUCTURAL PLANS CONFORM TO AND SATISFY, THE FLORIDA BUILDING CODE, 8TH EDITION 2023, ACI 318-19 AND LOCAL CODES AS APPLICABLE

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BLD-25-0517072
9/3/2025

City of Tampa
CONSTRUCTION SERVICES DIVISION
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BLD-25-0517072 9/3/2025
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333 North Knowles Avenue
Winter Park, Florida 32789

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ARCHITECTS, P.A.
3030 Henderson Blvd., Ste. 2068
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ADG PROJECT NO. 1087

C.o.T. NO. 24-C-00032

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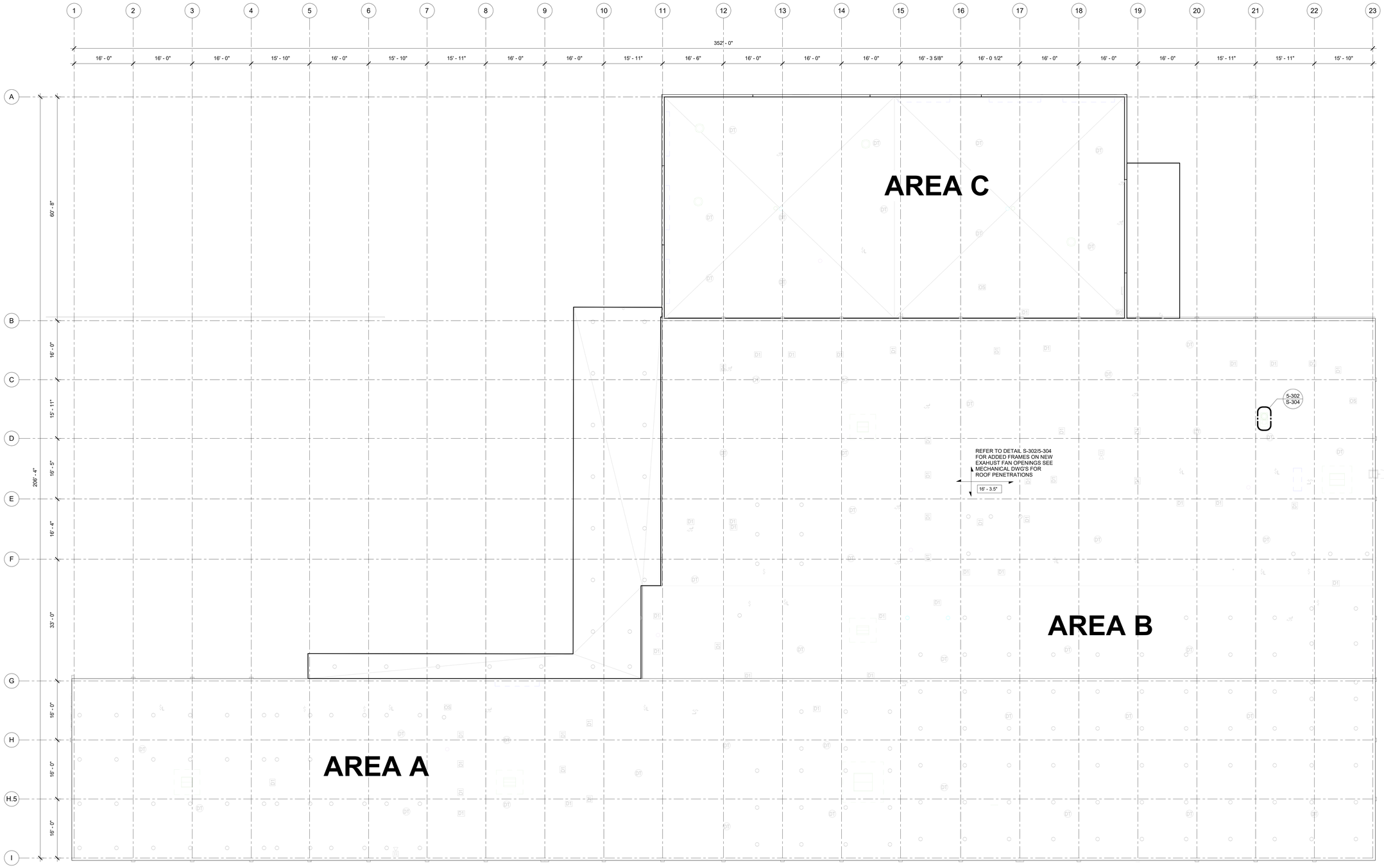
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TPD HOWARD AVENUE ANNEX BUILDING

SLAB ON GRADE PLAN - AREA B

TRUE PROJECT NORTH:

S-201B



N

ROOF FRAMING PLAN - OVERALL

SCALE: 3/32" = 1'-0"

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TPD HOWARD AVENUE ANNEX BUILDING

ROOF FRAMING PLAN - OVERALL

TRUE PROJECT NORTH:

S-204

ROOF FRAMING NOTES:

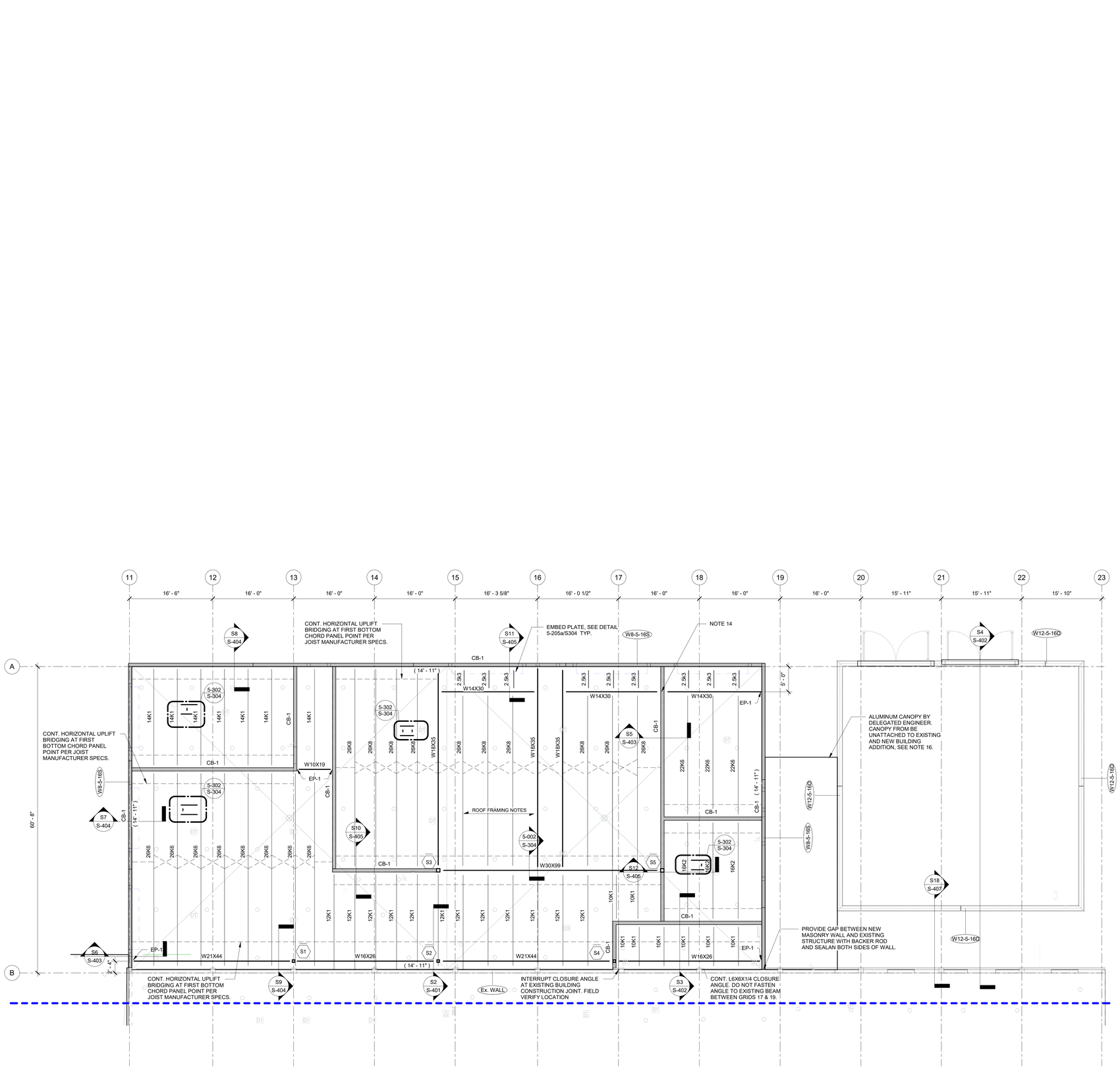
1. ROOF FRAMING SHALL BE 1-1/2" - 20 GAUGE TYPE "B" (WIDE RIB) 80 KSI, GALVANIZED G90 METAL DECK SPANNING OVER OPEN WEB STEEL JOIST SPACED @ 5'-0" O.C. (U.N.O.).
2. DIRECTION OF METAL DECK SPAN SHOWN THUS ◄——► ON PLAN.
3. FOR ROOF DRAIN LOCATIONS AND SIZE SEE ARCHITECTURAL DRAWINGS. FOR FRAMING SEE TYPICAL DETAIL 5-302/S304.
4. FOR TYPICAL DETAILS SEE DRAWINGS S301 THRU S305.
5. FOR GENERAL NOTES SEE DRAWING S101.
6. ( ) DENOTES UNDERSIDE OF METAL DECK (U.M.D.) ELEVATION.
7. JOIST MANUFACTURER TO DESIGN JOIST FOR THE UPLIFT FORCE SHOWN ON THE LOADING SCHEDULE AND PROVIDE CERTIFICATION THAT CHORD MEMBERS HAVE BEEN INVESTIGATED FOR REVERSE STRESSES DUE TO ALL UPLIFT FORCES. ADDITIONAL BRIDGING SHALL BE PROVIDED AT THE FIRST INTERIOR BOTTOM CHORD PANEL POINT OF ALL JOISTS SUBJECT TO NET UPLIFT PER STEEL JOIST INSTITUTE.
8. FRAME ALL JOIST BOTTOM CHORD MEMBERS TO BEAM BOTTOM FLANGES. INSTALLATION TO BE DONE AFTER ALL DEAD LOADS ARE APPLIED.
9. RAIN LEADER SHOWN THUS ⊗ R.L. ON PLAN. SEE PLUMBING DRAWINGS FOR SIZE AND LOCATIONS.
10. FOR PLAN DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
11. COLUMN DESIGNATIONS SHOWN THUS ⬡ ON PLAN. FOR COLUMN SCHEDULE, SEE DRAWING S601.
12. ⬡ DENOTES COLUMN STOP AT THIS LEVEL.
13. FOR LOAD SCHEDULE & WIND DESIGN DATA, SEE DRAWING S102.
14. EP-1 DENOTES EBMED PLATE IN CONCRETE TIE BEAM, SEE DETAILS 5-005/S-304 & 5-010/S-304
15. SOLAR PHOTOVOLTAIC CELL PANEL TO BE SUBMITTED FOR EOR REVIEW. CURRENT FRAMES SHOWN ARE SUITABE FOR SOLAR PANEL INSTALLATION AFTER APPROVAL FROM EOR.
16. CONTRACTOR AND DELEGATED CANOPY DESIGNER TO COORDINATE AND ACCOUNT FOR ALL UNDERGROUND UTILITIES, FOUNDATIONS AND EXISTING CONDITIONS

CONCRETE BEAM SCHEDULE

MARK	BEAM WIDTH	BEAM DEPTH	CONT. REINFORCING	TIE REINFORCING	REMARKS
CB-1	8"	24"	(2) #5 T&B CONT.	#3 @ 10" O.C.	

WALL SCHEDULE

TYPE	WALL THICKNESS	TYPE OF WALL	WALL REINF.	REMARKS
C8-5-12S	8"	CONCRETE	#5 AT 12" O.C.	#4 AT 12" O.C. HORIZONTAL
W8-5-8S	7 5/8"	CMU	#5 AT 8" O.C.	
W8-5-16S	7 5/8"	CMU	#5 AT 16" O.C.	
W8-5-24S	7 5/8"	CMU	#5 AT 24" O.C.	
W12-5-16D	11 5/8"	CMU	(2) #5 AT 16" O.C.	



N

ROOF FRAMING PLAN - AREA C

SCALE: 1/8" = 1'-0"

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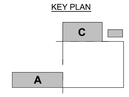
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TPD HOWARD AVENUE ANNEX BUILDING

ROOF FRAMING PLAN - AREA C

TRUE PROJECT NORTH:

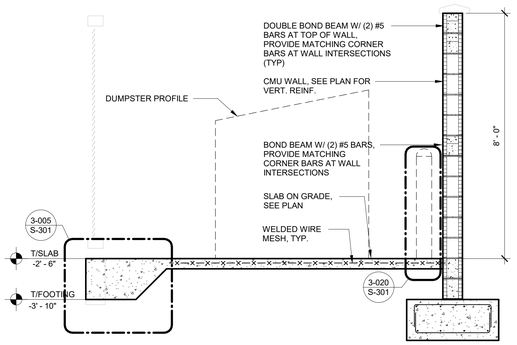
KEY PLAN



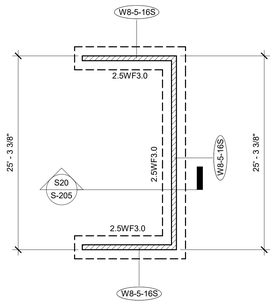
1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

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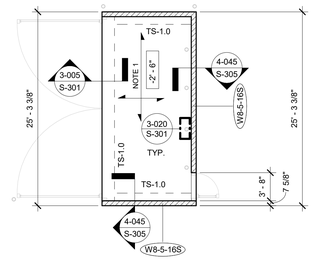
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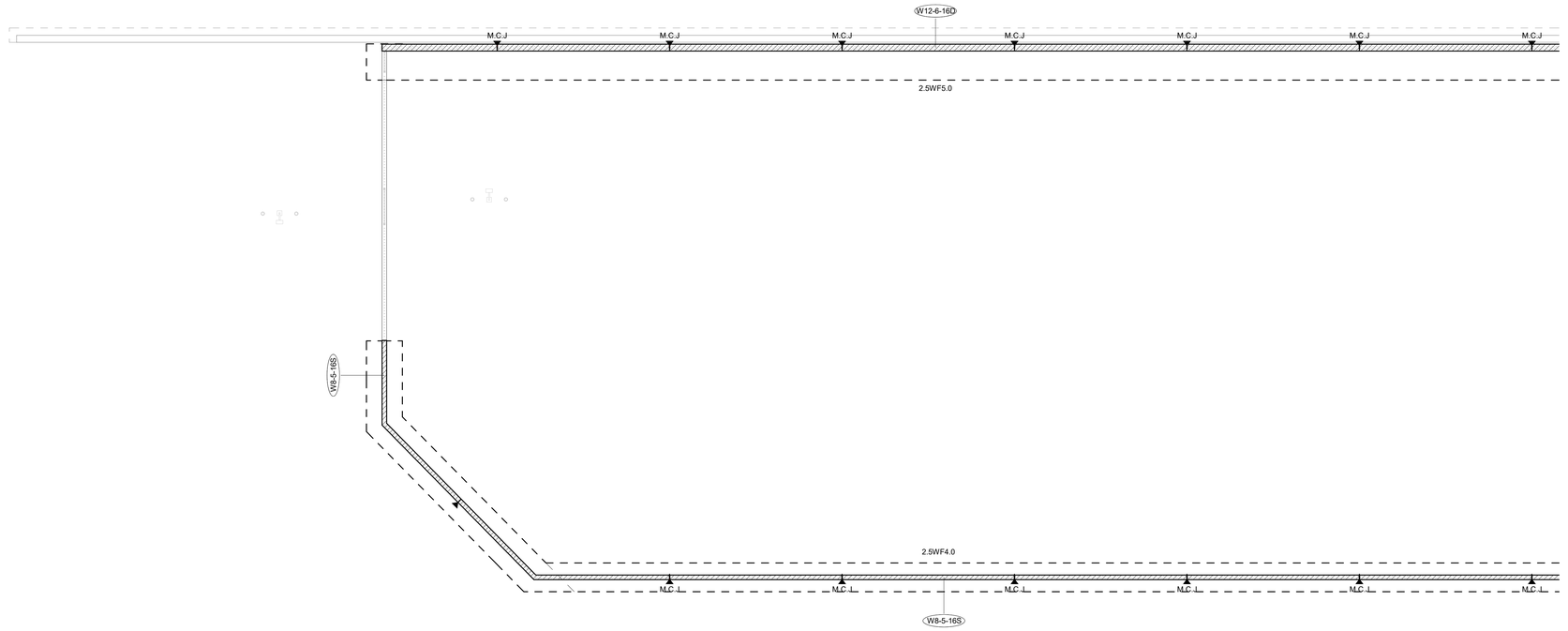
S20 / S-205 SECTON 1 AT DUMPSTER
SCALE: 1/2" = 1'-0"

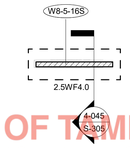


N
FOUNDATION PLAN - DUMPSTER
SCALE: 1/8" = 1'-0"



N
SLAB ON GRADE PLAN - DUMPSTER
SCALE: 1/8" = 1'-0"





N
FND/SOG SIGN AND RETANING WALLS
SCALE: 1/8" = 1'-0"

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FOUNDATION/SLAB NOTES:

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   B. VAPOR BARRIER INSTALLATION SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS AND ASTM E 1643-98.
   C. UNROLL VAPOR BARRIER WITH THE LONGEST DIMENSION PARALLEL WITH THE DIRECTION OF THE POUR.
   D. LAP VAPOR BARRIER OVER FOOTINGS AND SEAL TO FOUNDATION WALLS.
   E. OVERLAP JOINTS 6 INCHES AND SEAL WITH MANUFACTURER'S TAPE.
   F. SEAL ALL PENETRATIONS (INCLUDING PIPES) WITH MANUFACTURER'S PIPE BOOT.
   G. NO PENETRATION OF THE VAPOR BARRIER IS ALLOWED EXCEPT FOR REINFORCING STEEL AND PERMANENT UTILITIES.
   H. REPAIR DAMAGED AREAS BY CUTTING PATCHES OF VAPOR BARRIER, OVERLAPPING DAMAGED AREA 6 INCHES AND TAPING ALL FOUR SIDES WITH TAPE.
3. TOP OF SLAB ELEVATION SHOWN THUS [·] ON PLAN EQUALS REFERENCE EL., FOR ACTUAL EL., SEE CIVIL DRAWINGS.
4. FOR TYPICAL FOUNDATION PLAN DETAILS, SEE DRAWINGS S-301 & S-302.
5. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING S-101.
6. FOR FOOTING SIZE AND REINFORCING, SEE SCHEDULE ON THIS DRAWING.
7. ( ) DENOTES TOP OF FOOTING ELEVATION
8. TOP OF FOOTING: ELEVATION @ INTERIOR = (-3' - 10") TYPICAL U.N.O.
   ELEVATION @ EXTERIOR = (-3' - 10") TYPICAL U.N.O.
9. FOR FLOOR SLAB DEPRESSION LOCATIONS AND LIMITS NOT SHOWN ON PLAN SEE ARCHITECTURAL DRAWINGS.
10. FOR PLAN DIMENSIONS NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.
11. TYPICAL WALL REINFORCING SCHEDULE:
    A. FOR CMU EXTERIOR WALL REINFORCING SEE SCHEDULE THIS SHEET.
    B. REINFORCING SHOWN ON SCHEDULE IS MINIMUM. SEE ELEVATIONS FOR ADDITIONAL REINFORCING.
    C. 8" CMU WALLS TO HAVE A SINGLE LAYER OF REINFORCEMEN, U.N.O.
    D. 12" CMU WALLS TO HAVE A DOUBLE LAYER OF REINFORCEMENT (1 BAR AT EACH FACE), U.N.O.
    E. ▣ INDICATES ADDITIONAL (1) VERTICAL IN GROUT FILLED CELL.
    F. PROVIDE ADDITIONAL (1) VERTICAL IN FIRST (2) CELLS EACH SIDE OF ALL WALL OPENINGS, CORNERS AND INTERSECTIONS.



12. ALL CMU WALLS SHALL BE REINFORCED AS SHOWN ON PLAN WITH DOWELS TO MATCH, U.N.O. ALL CELLS AT REINFORCING LOCATION SHALL BE FILLED WITH GROUT. PROVIDE INSPECTION/CLEANOUT HOLE AT BASE WHEN POUR HEIGHT IS GREATER THAN 4'-0".
13. LOCATION OF MASONRY CONTROL JOINT NOT SHOWN. COORDINATE WITH ARCHITECTURAL ELEVATIONS. SEE TYPICAL DETAIL 4-002 ON S-302.
14. GENERAL CONTRACTOR TO COORDINATE LOCATION OF ALL WALL PENETRATIONS REQUIRED FOR MECHANICAL EQUIPMENT AND PROVIDE A PRECAST LINTEL AT ALL OPENINGS REFER TO TYPICAL DETAIL 4-004 ON S-302.
15. MASONRY CONTROL JOINT SHOWN THUS ◄ MCJ ON PLAN. MAXIMUM SPACING OF JOINTS = 24'-0", COORDINATE LOCATION WITH THE ARCH. BUILDING ELEVATIONS.

WALL SCHEDULE

TYPE	WALL THICKNESS	TYPE OF WALL	WALL REINF.	REMARKS
C8-5-12S	8"	CONCRETE	#5 AT 12" O.C.	#4 AT 12" O.C. HORIZONTAL
W8-5-8S	7 5/8"	CMU	#5 AT 8" O.C.	
W8-5-16S	7 5/8"	CMU	#5 AT 16" O.C.	
W8-5-24S	7 5/8"	CMU	#5 AT 24" O.C.	
W12-5-16D	11 5/8"	CMU	(2) #5 AT 16" O.C.	

WALL FOOTING SCHEDULE

MARK*	WIDTH	THICKNESS	TOP & BTM REINF. CONT.	TOP & BTM REINF. TRANSV.	REMARKS
2.5WF2.0	2' - 0"	1' - 4"	(4)-#5	#4 @ 24" O.C.	
2.5WF3.0	3' - 0"	1' - 4"	(4)-#5	#4 @ 16" O.C.	
2.5WF3.0E	3' - 0"	2' - 0"	(4)-#5	#4 @ 16" O.C.	
2.5WF4.0	4' - 0"	1' - 6"	(4)-#5	#5 @ 16" O.C.	

* WHERE FOOTING MARK NUMBER HAS A SUFFIX B, I.E., WF5.0B, THE REINFORCING INDICATED SHALL BE APPLIED TO BOTTOM OF FOOTING ONLY.

THICKENED SLAB SCHEDULE

MARK*	SIZE	THICKNESS	TOP & BOTT.* REINF. CONT.	TOP & BOTT.* REINF. TRANSV.	REMARKS
TS-1.0	1' - 0" x CONT.	1' - 0"	(2)-#5	#4 @ 24" O.C.	
TS-2.0	1' - 0" x CONT.	1' - 4"	(3)-#5	#4 @ 16" O.C.	

TO THE BEST OF OUR KNOWLEDGE INFORMATION AND BELIEF, THESE STRUCTURAL PLANS CONFORM TO AND SATISFY, THE FLORIDA BUILDING CODE, 8TH EDITION 2023, ACI 318-19 AND LOCAL CODES AS APPLICABLE

City of Tampa
CONSTRUCTION SERVICES DIVISION
PLAN APPROVAL
BLD-25-0517072 9/3/2025
THIS SET OF PLANS MUST BE KEPT ON THE JOB SITE
It is unlawful to make changes or alterations without written approval from the City of Tampa Construction Services Division.
The Stamping of Plans and/or Specifications shall not be held to permit or be an approval of the violation of any City or State Codes
REVIEWED FOR CODE COMPLIANCE

Architects Design Group
333 North Knowles Avenue
Winter Park, Florida 32789

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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:

PERMIT DOCUMENTS

ISSUE DATE:

9/9/2024

REVISIONS:

DRAWN BY: **DN/AN/VC**

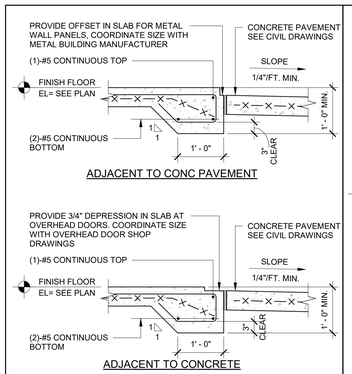
CHECKED BY: **LB/NR/JM**

TPD HOWARD AVENUE ANNEX BUILDING

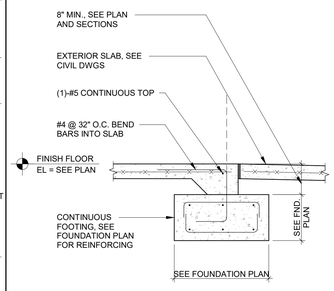
DUMPSTER AND RETAINING WALL DETAILS

TRUE PROJECT NORTH:

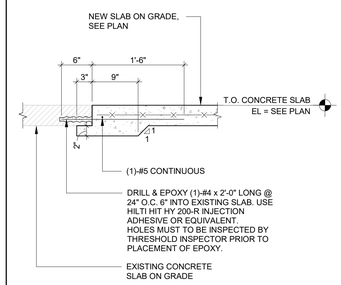
S-205



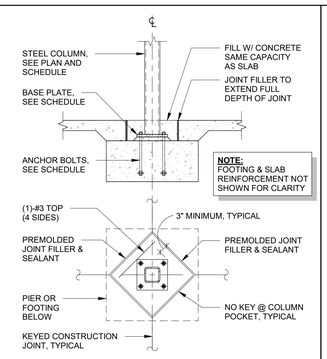
TYPICAL SLAB ON GRADE EDGE — 3-005



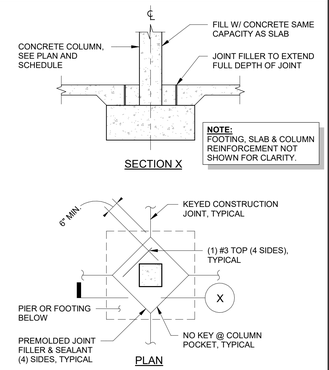
SLAB HAUNCH BEARING ON FOOTING SECTION — 3-008



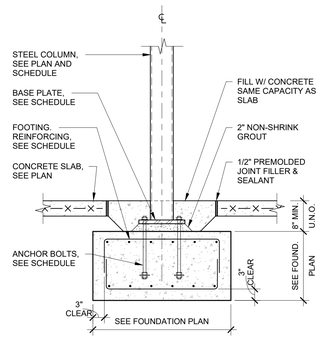
NEW SLAB TO EXISTING SLAB SECTION — 3-011



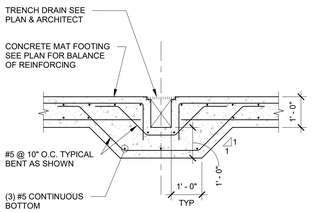
TYPICAL STEEL COLUMN ISOLATION JOINT DETAIL — 3-013



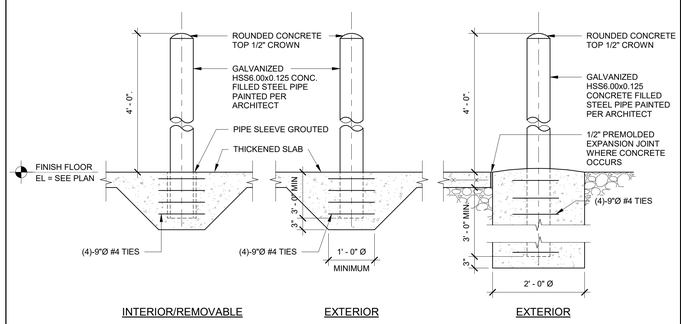
TYP. COLUMN ISOLATION JOINT DETAIL — 3-014



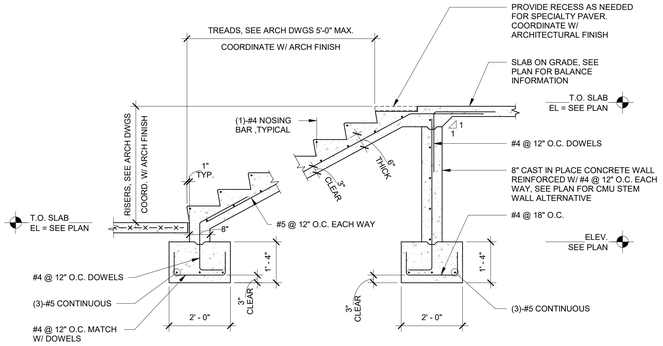
TYPICAL STEEL COLUMN FOOTING WITHOUT PIER — 3-016



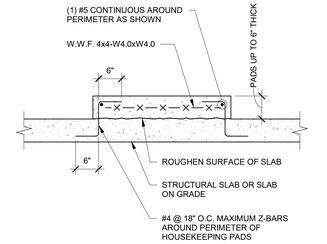
TRENCH DRAIN DETAIL — 3-018



TYPICAL BOLLARD DETAIL — 3-020

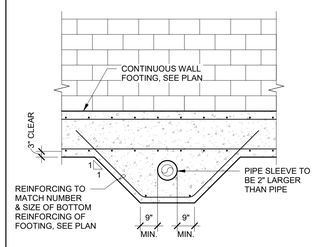


CONCRETE STAIR SECTION — 3-027

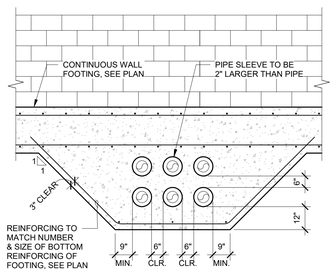


THE EXACT SIZE, SHAPE & LOCATION OF ALL EQUIPMENT (HOUSEKEEPING) PADS SHALL BE DETERMINED BY THE CONTRACTOR AFTER APPROVAL OF SHOP DRAWINGS FOR THE EQUIPMENT. REFER TO MECHANICAL DWG'S FOR LOCATIONS AND EXTEND OF PAD AROUND UNITS

CONCRETE EQUIPMENT PAD DETAILS — 3-040

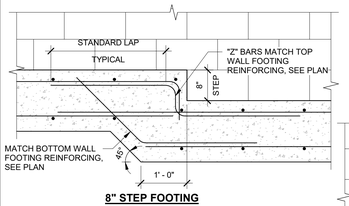


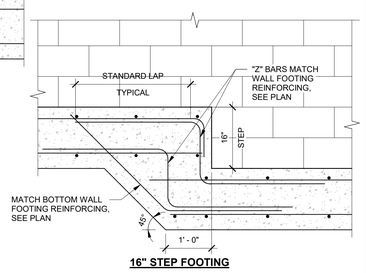
SINGLE PIPE DETAIL



BANK OF PIPES DETAIL

PIPE SLEEVE DETAIL AT FOUNDATION — 3-054





NOTES:

1. DIMENSION = LAP TYPE "B" MINIMUM.
2. DOWELS AND WALL REINFORCING NOT SHOWN FOR CLARITY.
3. DOWELS AS REQUIRED, SEE PLANS AND WALL REINFORCING SCHEDULES.
4. SEE FOUNDATION PLANS FOR CONTINUOUS WALL FOOTING REINFORCING.

TYPICAL MASONRY STEPPED CONTINUOUS WALL FOOTING DETAILS — 3-055

THE MINIMUM CLEAR COVER FOR REINFORCEMENT BARS SHALL BE ONE BAR DIAMETER OR THE VALUES TABULATED BELOW, WHICHEVER IS THE GREATER.		
SLABS (LT.WT. CONC. OR STONE CONC.)		1"
GIRDERS AND BEAMS (TO STIRRUPS)		1 1/2"
JOISTS (STONE OR LT.WT.) BOTTOM BARS		1 1/4"
TIED COLUMNS AND PIERS		
SURFACE EXPOSED TO EARTH AND WEATHER	(TO TIES)	2"
OTHER SURFACES	(TO TIES)	1 1/2"
FOUNDATION ELEMENTS		
FORMED SURFACES		2"
SURFACES PLACED AGAINST EARTH		3"
WALLS		
SURFACES EXPOSED TO EARTH		2"
SURFACES EXPOSED TO WEATHER		1 1/2"
OTHER SURFACES		1"

TYPICAL CONCRETE COVER FOR REINFORCING BARS — 3-064

f'c = 3000 PSI, NORMAL WEIGHT

BAR SIZE	LAP CLASS	TENSION LAP SPLICES: LAP LENGTH PER SPACING AND COVER CASE — CASE 1 TOP BARS	CASE 1 OTHER BARS	CASE 2 TOP BARS	CASE 2 OTHER BARS	COMPRESSION LAP SPLICES
#3	A	22	17	32	25	12
	B	28	22	42	32	
#4	A	29	22	43	33	15
	B	37	29	56	43	
#5	A	36	28	54	41	19
	B	47	36	70	54	
#6	A	43	33	64	50	23
	B	56	43	84	64	
#7	A	63	48	94	72	26
	B	81	63	122	94	
#8	A	72	55	107	82	30
	B	93	72	139	107	
#9	A	81	62	121	93	34
	B	105	81	157	121	
#10	A	91	70	136	105	38
	B	118	91	177	136	
#11	A	101	78	151	116	42
	B	131	101	196	151	

NOTES:

CASE 1

BEAMS AND COLUMNS: CONCRETE COVER >/= TO BAR DIAMETER, C-C BAR SPACING >/= TO 2X BAR DIAMETER AND WITH STIRRUPS OR TIES THROUGHOUT TENSION LAP SPLICE LENGTH NOT LESS THAN THE CODE MINIMUM.

OTHER MEMBERS: CONCRETE COVER >/= TO THE BAR DIAMETER AND C-C BAR SPACING >/= TO 3X BAR DIAMETER.

CASE 2

BEAMS AND COLUMNS: CONCRETE COVER < BAR DIAMETER AND C-C BAR SPACING < 2X BAR DIAMETER.

OTHER MEMBERS: CONCRETE COVER < BAR DIAMETER OR C-C BAR SPACING < 3X BAR DIAMETER.

* LAP CLASS "B" IS TO BE USED UNLESS OTHERWISE SPECIFIED IN THESE CONTRACT DOCUMENTS.

TENSION AND COMPRESSION LAP SPLICES WITH F'c = 3000 PSI — 3-065

f'c = 4000 PSI, NORMAL WEIGHT

BAR SIZE	LAP CLASS	TENSION LAP SPLICES: LAP LENGTH PER SPACING AND COVER CASE — CASE 1 TOP BARS	CASE 1 OTHER BARS	CASE 2 TOP BARS	CASE 2 OTHER BARS	COMPRESSION LAP SPLICES
#3	A	19	15	28	22	12
	B	24	19	36	28	
#4	A	25	19	37	29	15
	B	32	25	48	37	
#5	A	31	24	47	36	19
	B	40	31	60	47	
#6	A	37	29	56	43	23
	B	48	37	72	56	
#7	A	54	42	81	63	26
	B	70	54	106	81	
#8	A	62	48	93	71	30
	B	80	62	121	93	
#9	A	70	54	105	81	34
	B	91	70	136	105	
#10	A	79	61	118	91	38
	B	102	79	153	118	
#11	A	87	67	131	101	42
	B	113	87	170	131	

NOTES:

CASE 1

BEAMS AND COLUMNS: CONCRETE COVER >/= TO BAR DIAMETER, C-C BAR SPACING >/= TO 2X BAR DIAMETER AND WITH STIRRUPS OR TIES THROUGHOUT TENSION LAP SPLICE LENGTH NOT LESS THAN THE CODE MINIMUM.

OTHER MEMBERS: CONCRETE COVER >/= TO THE BAR DIAMETER AND C-C BAR SPACING >/= TO 3X BAR DIAMETER.

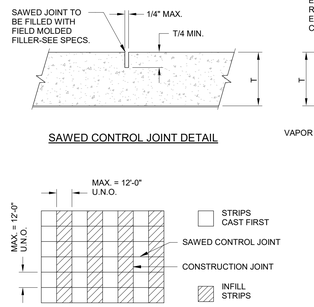
CASE 2

BEAMS AND COLUMNS: CONCRETE COVER < BAR DIAMETER AND C-C BAR SPACING < 2X BAR DIAMETER.

OTHER MEMBERS: CONCRETE COVER < BAR DIAMETER OR C-C BAR SPACING < 3X BAR DIAMETER.

* LAP CLASS "B" IS TO BE USED UNLESS OTHERWISE SPECIFIED IN THESE CONTRACT DOCUMENTS.

TENSION AND COMPRESSION LAP SPLICES WITH F'c = 4000 PSI — 3-066



NOTES:

1. CONCRETE FOR SLAB ON GRADE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AS INDICATED ON THE "CONCRETE AND REINFORCING" NOTES.
2. SUPERPLASTICIZER SHALL BE USED IN SLAB ON GRADE CONCRETE - SEE SPECIFICATIONS.
3. SLAB ON GRADE CONCRETE MIX SHALL HAVE A WATER-CEMENT RATIO AS INDICATED IN SPECS AND OR NOTES.
4. CONSTRUCTION JOINTS SHALL BE LOCATED A MINIMUM OF 5'-0" AWAY FROM ANY OTHER JOINTS TO WHICH THEY ARE PARALLEL.
5. SAW CUTTING SHALL BE DONE WITH A POWER SAW WITH A MASONRY CUTTING BLADE. CUTTING SHALL BE DONE AS SOON AS CONCRETE HARDENS ENOUGH SO THAT THE BLADE DOES NOT DISLODGE THE AGGREGATES.
6. WHERE SAWCUT IS DISCONTINUED AT A TRANSVERSE JOINT, STOP CUT 2" SHORT.
7. SLAB REINFORING NOT SHOWN FOR CLARITY.

TYPICAL SLAB ON GRADE JOINT DETAILS — 3-201

NOTE:
IN CASE OF CONFLICT BETWEEN INFORMATION SHOWN ON THIS DRAWING, SECTION DRAWINGS OR ARCHITECTURAL DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INFORM THE ARCHITECT AND ENGINEER OF SUCH CONFLICT IN WRITING PRIOR TO BIDDING. IF THE CONTRACTOR FAILS TO DO SO, THE MORE STRINGENT REQUIREMENT (U.N.O.) IN THE STRUCTURAL ELEMENTS SHOWN IN THIS DRAWING ARE MINIMUM TO BE USED UNLESS NOTED OTHERWISE (U.N.O.) IN PLANS.

CITY OF TAMPA
APPROVED SITE REVIEW ONLY, NOT VALID WITHOUT BUILDING PERMIT
BLD-25-0517072
9/3/2025

City of Tampa
CONSTRUCTION SERVICES DIVISION
PLAN APPROVAL
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REVIEWED FOR CODE COMPLIANCE

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SIGNITURE AND SEAL:

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ADG PROJECT NO. 1087

C.o.T. NO. 24-C-00032

PROJECT STATUS:
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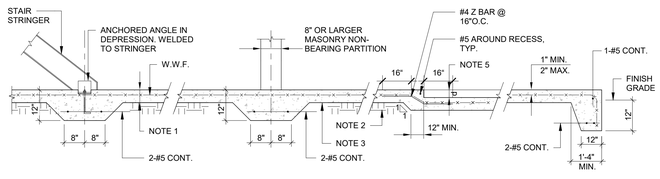
TPD HOWARD AVENUE ANNEX BUILDING

TYPICAL DETAILS

TRUE PROJECT NORTH:

S-301

TO THE BEST OF OUR KNOWLEDGE INFORMATION AND BELIEF, THESE STRUCTURAL PLANS CONFORM TO AND SATISFY, THE FLORIDA BUILDING CODE, 8TH EDITION 2023, ACI 318-19 AND LOCAL CODES AS APPLICABLE

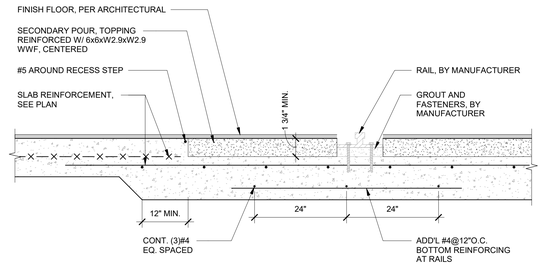


AT STAIR | HAUNCH AT PARTITION (NO JOINT) | AT DEPRESSION/RECESS | EXTERIOR PLATFORM

UNLESS NOTED ON PLANS:

1. SEE FOUNDATION NOTES FOR SLAB THICKNESS AND REINFORCING.
2. SLABS SHALL BEAR ON COMPACTED FILL.
3. COMPACTED FILL SHALL BE COVERED WITH VAPOR BARIER AT HAUNCHES. SEE SPECS.
4. UNDER MACHINE EQUIPMENT DEEPEN SLAB TO 8" AND ADD TWO LAYERS OF WELDED WIRE FABRIC BOTTOM, U.N.O
5. FOR DEPRESSIONS - SEE ARCHITECTURAL DRAWINGS.
6. AT CONSTRUCTION JOINTS USE WOOD FORMS WITH SHEAR KEYS.
7. STOP WIRE MESH AT CONSTRUCTION JOINTS. CUT EVERY OTHER WIRE AT SAWCUT JOINT.
8. WHERE SLAB IS DOWELD INTO WALL, FIRST SLAB CONSTRUCTION JOINT TO BE NOT MORE THAN 15 FEET FROM WALL.
9. FOR EXPANSION JOINT LOCATION SEE PLAN. FOR DETAILS SEE ARCHITECTURAL DRAWINGS.

TYPICAL SLAB ON GRADE DETAILS — 3-202

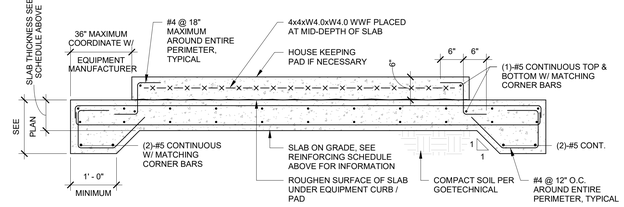


NOTES:

1. REFER TO RAIL MANUFACTURER FOR SEQUENCE OF RAIL, GROUT AND SECONDARY POUR TOPPING INSTALLATION.
2. REFER TO RAIL MANUFACTURER FOR LEVELNESS REQUIREMENTS.

BULK EVIDENCE RAIL - SLAB DETAIL — 3-202A

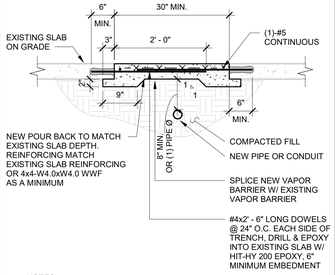
SLAB THICKNESS	REINFORCING	REMARKS
8"	#4 @ 12" O.C EACH WAY TOP & BOTTOM	



NOTES:

1. THE EXACT SIZE, SHAPE AND LOCATION OF ALL EQUIPMENT (HOUSEKEEPING) PADS SHALL BE DETERMINED BY THE CONTRACTOR AFTER APPROVAL OF SHOP DRAWINGS FOR THE EQUIPMENT.

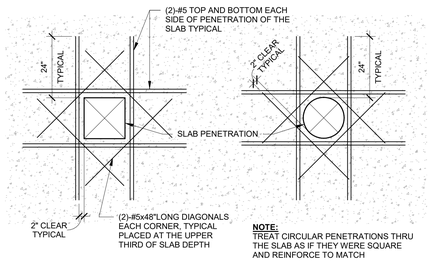
HEAVY MACHINE / EQUIPMENT SLAB ON GRADE DETAIL — 3-203



NOTES:

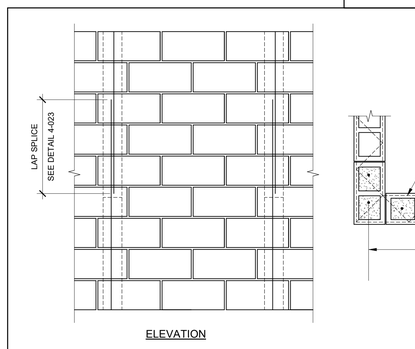
1. VERIFY EXISTING SLAB FRAMING PRIOR TO CUTTING TRENCH. DO NOT CUT THE SLAB IF POST-TENSION CABLES ARE PRESENT.
2. CONCRETE STRENGTH SHALL MATCH EXISTING BUT SHALL NOT BE LESS THAN 4000PSI.

TRENCH POUR BACK DETAIL — 3-216



RECTANGULAR OPENING | CIRCULAR OPENING | RE-ENTRANT CORNER

TYPICAL SLAB REINFORCING AT PENETRATIONS & CORNERS — 3-520

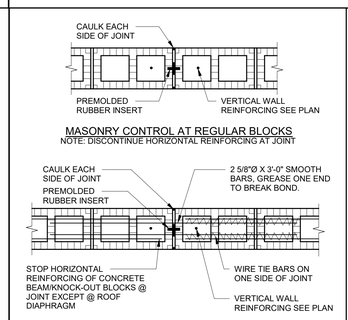


ELEVATION | PLAN

NOTE:

PROVIDE INSPECTION PORT AT BOTTOM OF LIFT GREATER THAN 4' - 0" IN HEIGHT.

TYP MASONRY WALL DETAIL — 4-001

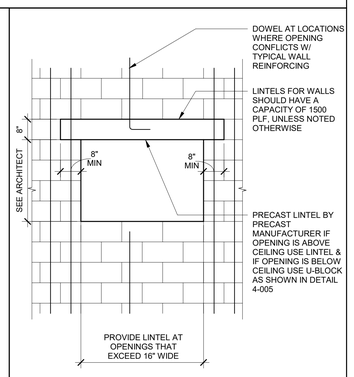


MASONRY CONTROL AT CONC. BEAM/KNOCK-OUT BLOCKS
NOTE: DISCONTINUE HORIZONTAL REINFORCING AT JOINT

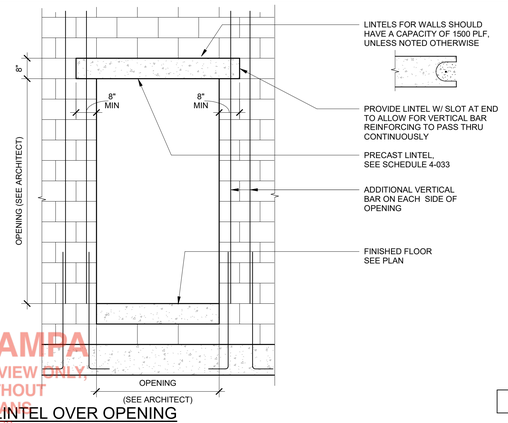
NOTE:

1. MAXIMUM SPACING OF CONTROL JOINT EQUALS 24'-0" OR THREE TIMES WALL HEIGHT (WHICH EVER IS SMALLER)

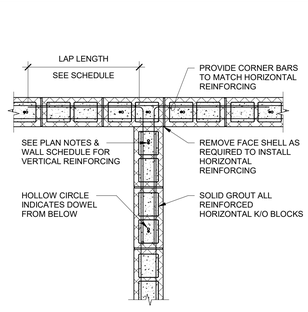
MASONRY CONTROL JOINT — 4-002



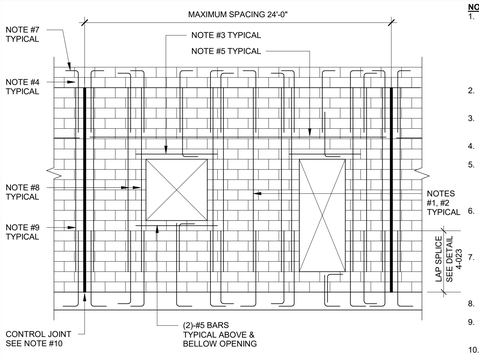
TYPICAL LINTEL OVER DUCT OPENING — 4-004



TYPICAL LINTEL OVER OPENING — 4-005



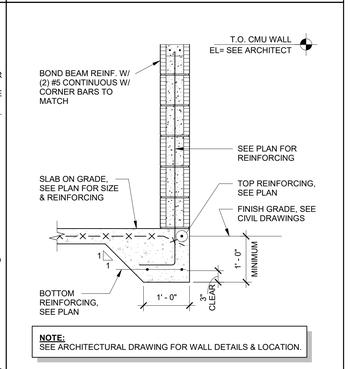
TYPICAL CMU K/O BLOCK REINFORCING LAYOUT — 4-008



NOTES:

1. VERTICAL WALL REINFORCING SHALL ALIGN WITH VERTICAL FOUNDATION DOWELS. DOWELS SHALL BE PLACED AS SHOWN ON DETAILS WITH STANDARD ACI HOOK DIRECTLY ON TOP OF BOTTOM LAYER OF FOOTING REINFORCING. REFER TO CMU WALL REINFORCING SCHEDULE ON PLAN FOR SIZE AND SPACING.
2. TYPICAL VERTICAL WALL REINFORCING TO BE PLACED AS SHOWN ON DETAILS. GROUT CELLS FULL THAT CONTAIN REINFORCEMENT.
3. REFER TO CMU LINTEL SCHEDULE FOR SIZE, LOCATION AND QUANTITY OF LINTEL REINFORCEMENT.
4. VERTICAL REINFORCING BARS MAY BE SPLICED IN 6'-0" TO 8'-0" LENGTHS.
5. HORIZONTAL WALL REINFORCING SHALL BE TRUSS TYPE AT 16" O.C. ABOVE GRADE AND 8" O.C. BELOW GRADE UNLESS OTHERWISE NOTED ON PLANS AND DETAILS. DISCONTINUE AT CONTROL JOINTS.
6. CONTRACTOR SHALL USE THE LOW LIFT METHOD OF GROUTED MASONRY CONSTRUCTION UNLESS CLEAN OUTS ARE PROVIDED AT EACH VERTICAL REINFORCING BAR.
7. REFER TO PLANS AND DETAILS FOR SIZE AND LOCATION OF BOND BEAMS AND QUANTITY OF REINFORCING. LAP REINFORCING 24" MINIMUM. DISCONTINUE BOND BEAMS AT CONTROL JOINTS.
8. REFER TO LINTEL SCHEDULE NOTES FOR VERTICAL BARS ADJACENT TO OPENING.
9. PROVIDE VERTICAL WALL REINFORCING IN FIRST CELL NEXT TO CONTROL JOINTS/CORNERS/OPENINGS, TYPICAL.
10. VERTICAL CONTROL JOINTS SHALL TERMINATE AT TOP OF FOOTING.
11. PROVIDE CORNER BARS TO MATCH TYPE AND QUANTITY OF HORIZONTAL WALL REINFORCING, TYPICAL.

CMU WALL REINFORCING LAYOUT — 4-009



NOTE:
SEE ARCHITECTURAL DRAWING FOR WALL DETAILS & LOCATION.

TYPICAL HAUNCH AT MASONRY WALLS — 4-010

TO THE BEST OF OUR KNOWLEDGE INFORMATION AND BELIEF, THESE STRUCTURAL PLANS CONFORM TO AND SATISFY, THE FLORIDA BUILDING CODE, 8TH EDITION 2023, ACI 318-19 AND LOCAL CODES AS APPLICABLE

NOTE:
IN CASE OF CONFLICT BETWEEN INFORMATION SHOWN ON THIS DRAWING, SECTION DRAWINGS OR ARCHITECTURAL DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INFORM THE ARCHITECT AND ENGINEER OF SUCH CONFLICT IN WRITING PRIOR TO BIDDING. THE CONTRACTOR SHALL ASSUME THE MORE STRINGENT REQUIREMENTS FOR STRUCTURAL ELEMENTS SHOWN IN THIS DRAWING ARE MINIMUM TO BE USED UNLESS NOTED OTHERWISE (U.N.O.) ON PLANS.

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BLD-25-051472
9/3/2025

City of Tampa
CONSTRUCTION SERVICES DIVISION
PLANS APPROVAL
BLD-25-051472 9/3/2025
THIS SET OF PLANS MUST BE KEPT ON THE JOB SITE
It is unlawful to make changes or alterations without written approval from the City of Tampa Construction Services Division.
The Stamp does not relieve the applicant of any City or State Codes
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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:
PERMIT DOCUMENTS

ISSUE DATE:
9/9/2024

REVISIONS:

1	Date 1	Revision 1

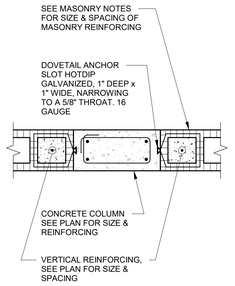
DRAWN BY: **DN/AN/VC**
CHECKED BY: **LB/NR/JM**

TPD HOWARD AVENUE ANNEX BUILDING

TYPICAL DETAILS

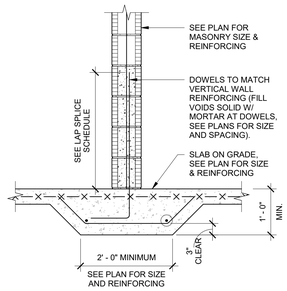
TRUE PROJECT NORTH:

S-302



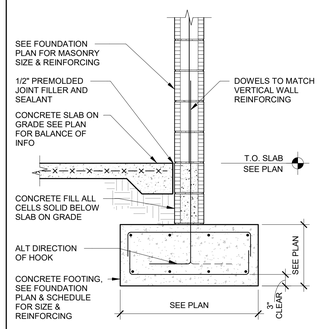
CONCRETE COLUMN TO MASONRY CONNECTION

4-022



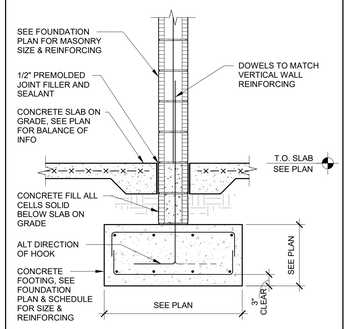
TYPICAL HAUNCH AT MASONRY WALLS

4-011



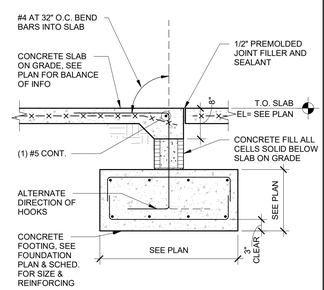
PARTIAL CMU WALL SECTION

4-012



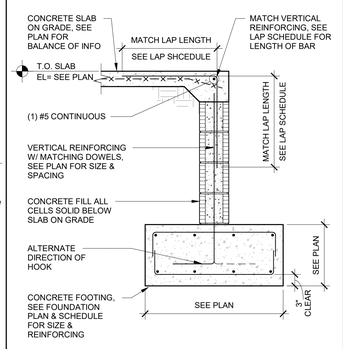
PARTIAL CMU WALL SECTION

4-015



SLAB HAUNCH BEARING ON CMU WALL SECTION

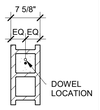
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SLAB HAUNCH BEARING ON CMU WALL SECTION

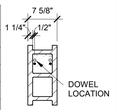
4-018

LAP SPLICE SCHEDULE FOR SINGLE REINFORCED 8" CMU WALL		
BAR SIZE	LAP SPLICE	REMARKS
#3	18"	
#4	24"	
#5	30"	
#6	36"	



LAP SPLICE SCHEDULE SINGLE REINFORCED 8" CMU WALL

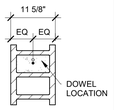
LAP SPLICE SCHEDULE FOR DOUBLE REINFORCED 8" CMU WALL		
BAR SIZE	LAP SPLICE	REMARKS
#3	18"	
#4	24"	
#5	30"	
#6	36"	



LAP SPLICE SCHEDULE DOUBLE REINFORCED 8" CMU WALL

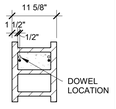
4-023

LAP SPLICE SCHEDULE FOR SINGLE REINFORCED 12" CMU WALL		
BAR SIZE	LAP SPLICE	REMARKS
#3	18"	
#4	24"	
#5	30"	
#6	36"	
#7	42"	
#8	48"	
#9	54"	



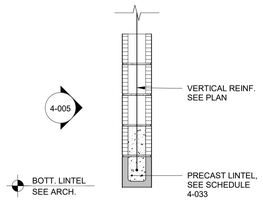
LAP SPLICE SCHEDULE SINGLE REINFORCED 12" CMU WALL

LAP SPLICE SCHEDULE FOR SINGLE REINFORCED 12" CMU WALL		
BAR SIZE	LAP SPLICE	REMARKS
#3	18"	
#4	24"	
#5	30"	
#6	36"	
#7	42"	
#8	48"	
#9	54"	



LAP SPLICE SCHEDULE DOUBLE REINFORCED 12" CMU WALL

4-024



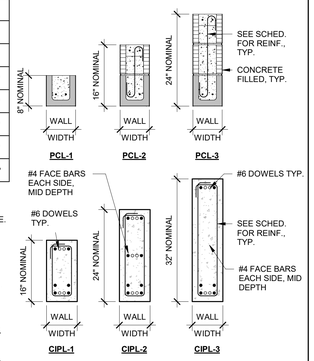
TYPICAL PRECAST LINTEL SECTION

4-031

CMU LINTEL SCHEDULE					
WALL THICKNESS	LINTEL DEPTH	BOTTOM REINFORCING	TOP REINFORCING	STIRRUPS & SPACING	OPENING SIZE
PCL-1	8"	1-#5	-	-	UP TO 4'-4"
PCL-2	16"	1-#5	1-#5	-	4'-4" TO 6'-4"
PCL-3	24"	1-#5	1-#5	-	6'-4" TO 8'-4"
CIPL-1	16"	2-#5	2-#5	#3@6" O.C.	4'-4" TO 6'-4"
CIPL-2	24"	2-#6	2-#6	#3@10" O.C.	6'-4" TO 8'-4"
CIPL-3	32"	2-#6	2-#6	#3@12" O.C.	8'-4" TO 10'-8"

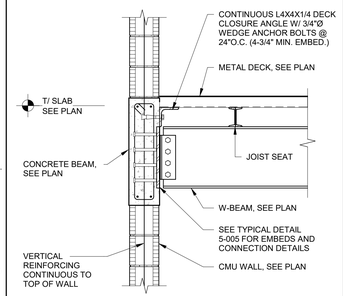
NOTES:

1. PRECAST CONCRETE LINTELS CAN BE INSTALLED AT ALL OPENINGS PER SCHEDULE. CAST IN PLACE CONCRETE LINTELS SHALL BE PLACED WHERE SHOWN ON PLANS. SUBSTITUTED UPON APPROVAL BY ENGINEER.
2. GROUTED LINTEL (THROUGH) BLOCKS SHALL EXTEND A MINIMUM OF 8" BEYOND FACE OF OPENING EACH SIDE UNLESS NOTED OTHERWISE. THE FIRST TWO VERTICAL CELLS EACH OF THE OPENING SHALL BE GROUTED AND CONTAIN (2) #5 VERTICAL EACH FACE.
   NOTE: THE FIRST CELL EACH SIDE OF THE OPENING SHALL BE GROUTED TO LINTEL LEVEL. SECOND CELL SHALL BE GROUTED TO ROOF LEVEL.
3. SEE SPECIFIC DETAIL FOR BRICK LEDGE SUPPORT ANGLE OF LOOSE LINTEL SCHEDULE.
4. CONSTRUCTION/CONTROL JOINT SHALL NOT BE LOCATED WITHIN WIDTH OF OPENING, NOR SHALL IT BE LOCATED WITHIN 24" OF THE OPENING ON EITHER SIDE.
5. CONCRETE LINTEL BEARING EACH SIDE OF LINTEL TO BE EQUAL TO DEPTH OF LINTEL, TYPICAL UNLESS NOTED OTHERWISE.
6. PROVIDE #6 DOWELS TO MATCH LINTEL T&B REBAR AND FACE BARS REINFORCING.



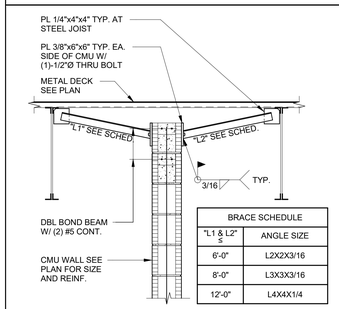
TYP. PRECAST/C.I.P. LINTEL DETAIL

4-033



STEEL BEAM TO BEARING WALL

4-065

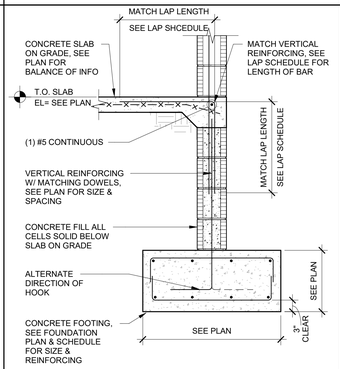


BRACE SCHEDULE	
"L1 & L2" ≤	ANGLE SIZE
6'-0"	L2X2X3/16
8'-0"	L3X3X3/16
12'-0"	L4X4X1/4

NOTE:
MAXIMUM SPACING OF WALL BRACING SHALL NOT EXCEED 6'-0" ON CENTER UNLESS NOTED OTHERWISE IN PLANS OR SECTIONS.

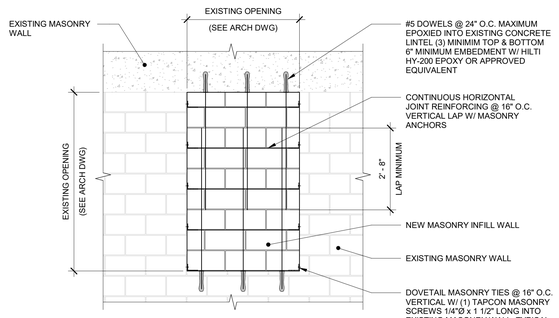
TYPICAL INTERIOR NON-LOAD BEARING WALL BRACE DETAIL

4-061



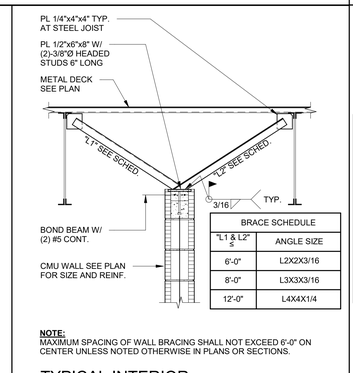
SLAB HAUNCH BEARING ON CMU WALL SECTION

4-018a



TYPICAL MASONRY OPENING INFILL DETAIL

4-085

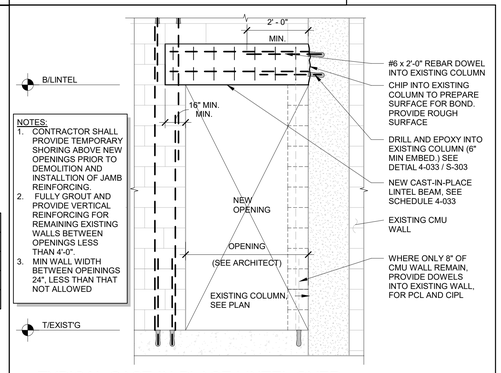


BRACE SCHEDULE	
"L1 & L2" ≤	ANGLE SIZE
6'-0"	L2X2X3/16
8'-0"	L3X3X3/16
12'-0"	L4X4X1/4

NOTE:
MAXIMUM SPACING OF WALL BRACING SHALL NOT EXCEED 6'-0" ON CENTER UNLESS NOTED OTHERWISE IN PLANS OR SECTIONS.

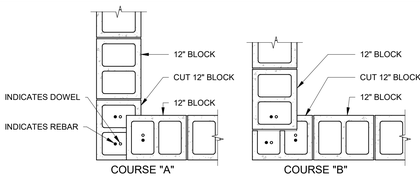
TYPICAL INTERIOR NON-LOAD BEARING WALL BRACE DETAIL

4-062

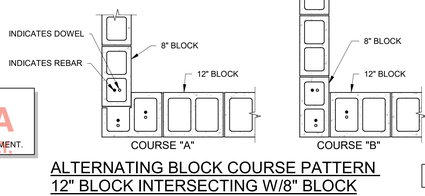


TYPICAL CAST-IN-PLACE LINTEL OVER OPENING - IN EXISTING CMU WALL

D1A



ALTERNATING BLOCK COURSE PATTERN 12" BLOCK @ CORNERS

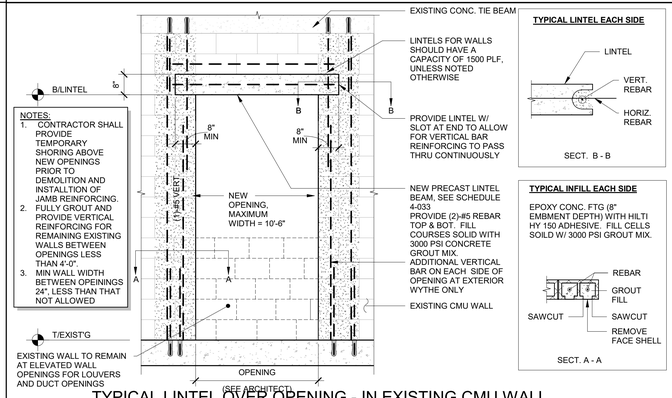


NOTES:

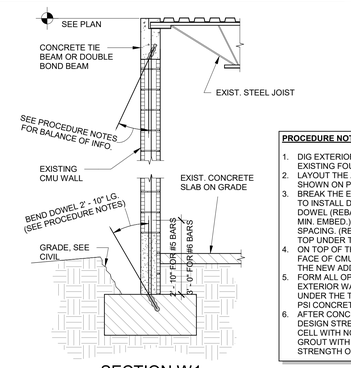
1. BALL OF REINFORCEMENT NOT SHOWN FOR CLARITY.
2. SEE PLAN FOR VERTICAL AND HORIZONTAL WALL REINFORCEMENT.

ALTERNATING BLOCK COURSE PATTERN 12" BLOCK INTERSECTING W/8" BLOCK

4-083



TYPICAL LINTEL OVER OPENING - IN EXISTING CMU WALL

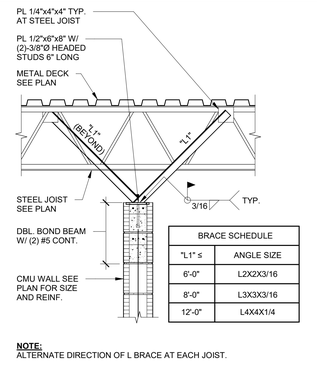


SECTION W1

D1

PROCEDURE NOTES:

1. DIG EXTERIOR OF BUILDING TO EXPOSE EXISTING FOUNDATION.
2. LAYOUT THE ADDED BARS LOCATION AS SHOWN ON PLAN.
3. BREAK THE EXTERIOR FACE OF CMU WALL TO INSTALL DOWEL (REBAR). DRILL & EPOXY DOWEL (REBAR) INTO EXISTING FOOTING (8" MIN. EMBED.) BEND BAR INTO THE CELL SPACING. (REPEAT PROCEDURE ON THE TOP UNDER TIE BEAM.
4. ON TOP OF THE WALL BREAK EXTERIOR FACE OF CMU WALL AS NEEDED TO INSTALL THE NEW ADDED VERTICAL REBAR.
5. FORM ALL OPENINGS DONE TO THE EXTERIOR WALL UP TO THE TOP ONE UNDER THE TIE BEAM. FILL CELLS WITH 3000 PSI CONCRETE.
6. AFTER CONCRETE REACH 75% OF ITS DESIGN STRENGTH, DRY PACK THE TOP CELL WITH NON-SHRINKAGE, NON-METALIC GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI.



BRACE SCHEDULE	
"L1" ≤	ANGLE SIZE
6'-0"	L2X2X3/16
8'-0"	L3X3X3/16
12'-0"	L4X4X1/4

NOTE:
ALTERNATE DIRECTION OF L BRACE AT EACH JOIST.

TYPICAL INTERIOR WALL BRACE DETAIL

4-063

CITY OF TAMPA
APPROVED SITE PLAN ONLY
NOT VALID WITHOUT BUILDING PLANS
BLD-25-0517072
9/3/2025

City of Tampa
CONSTRUCTION SERVICES DIVISION
PLAN APPROVAL
BLD-25-0517072 9/3/2025
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It is unlawful to make changes or alterations without written approval from the City of Tampa Construction Services Division.
The Stamping of this plan does not relieve the owner or his agent of the responsibility to comply with all applicable codes, ordinances and regulations in force by the City of Tampa and does not grant any permission or authorization to violate or cancel the provisions of any City or State Codes
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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:

PERMIT DOCUMENTS

ISSUE DATE:

9/9/2024

REVISIONS:

DRAWN BY: **DN/AN/VC**

CHECKED BY: **LB/NR/JM**

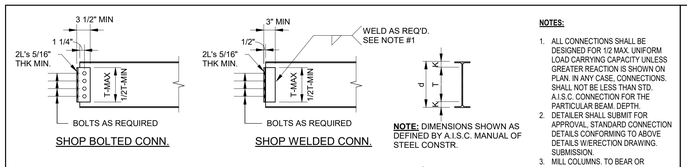
TPD HOWARD AVENUE ANNEX BUILDING

TYPICAL DETAILS

TRUE PROJECT NORTH:

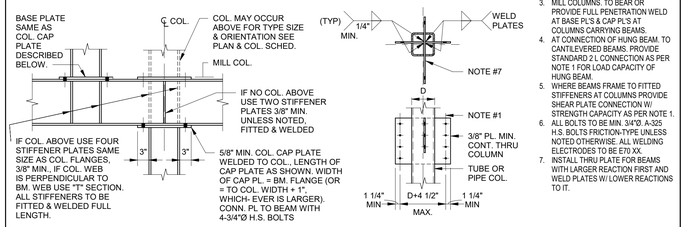
S-303

TO THE BEST OF OUR KNOWLEDGE INFORMATION AND BELIEF, THESE STRUCTURAL PLANS CONFORM TO AND SATISFY, THE FLORIDA BUILDING CODE, 8TH EDITION 2023, ACI 318-19 AND LOCAL CODES AS APPLICABLE



SHOP BOLTED CONN. SHOP WELDED CONN.

NOTE: DIMENSIONS SHOWN AS DEFINED BY A.I.S.C. MANUAL OF STEEL CONSTR.



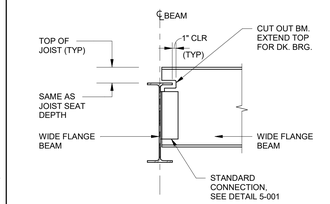
BEAM OVER COLUMN AND COLUMN OVER BEAM

FRAMED CONNECTION AT TUBE/PIPE COLUMN

NOTES:

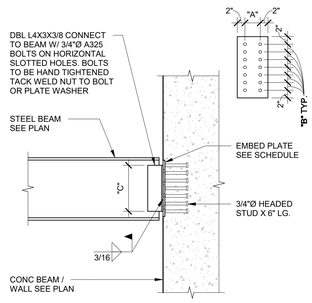
1. ALL CONNECTIONS SHALL BE DESIGNED FOR 1/2 MAX. UNIFORM LOAD CARRYING CAPACITY UNLESS GREATER REACTION IS SHOWN ON PLAN. IN ANY CASE, CONNECTIONS SHALL NOT BE LESS THAN STD. A.I.S.C. CONNECTION FOR THE PARTICULAR BEAM. DEPTH.
2. DETAILER SHALL SUBMIT FOR APPROVAL, STANDARD CONNECTION DETAILS CONFORMING TO ABOVE DETAILS W/ERECTION DRAWING. SUBMISSION.
3. MILL COLUMNS. TO BEAR OR PROVIDE FULL PENETRATION WELD AT BASE PLTS.& CAP PL'S AT COLUMNS CARRYING BEAMS.
4. AT CONNECTION OF HUNG BEAM. TO CANTILEVERED BEAMS. PROVIDE STANDARD 2 L CONNECTION AS PER NOTE 1 FOR LOAD CAPACITY OF HUNG BEAM.
5. WHERE BEAMS FRAME TO FITTED STIFFENERS AT COLUMNS PROVIDE SHEAR PLATE CONNECTION W/ STRENGTH CAPACITY AS PER NOTE 1.
6. ALL BOLTS TO BE MIN. 3/4"Ø. A-325 H.S. BOLTS FRICTION-TYPE UNLESS NOTED OTHERWISE. ALL WELDING ELECTRODES TO BE E70 XX.
7. INSTALL THRU PLATE FOR BEAMS WITH LARGER REACTION FIRST AND WELD PLATES W/ LOWER REACTIONS TO IT.

5-001



TYP. DETAIL WHERE WIDE FLANGE BEAMS REPLACE JOIST

5-002



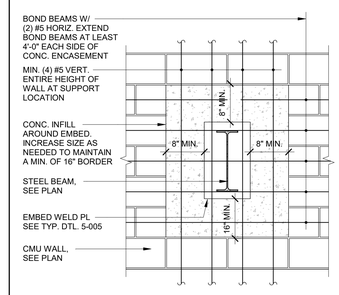
EMBED PLATE SCHEDULE					
BEAM SIZE	PLATE SIZE	NO. OF 3/4"Ø HEADED STUDS	"A" (IN.)	"B" (IN.)	"C" (IN.)
W10	1/2" X 10" X 10"	4	6"	6"	7"
W12	1/2" X 10" X 12"	6	6"	4"	9"
W14	1/2" X 10" X 14"	6	6"	5"	11"
W16	1/2" X 10" X 16"	8	6"	4"	13"
W18	3/4" X 10" X 18"	10	6"	3 1/2"	15"
W21	3/4" X 10" X 22"	14	6"	3"	18 1/2"
W24	3/4" X 10" X 24"	14	6"	3 1/2"	19"
W27	1" X 10" X 27"	14	6"	4"	22"

NOTES:

1. PROVIDE #4 BARS BETWEEN EACH HEADED STUD HORIZONTALLY AND VERTICALLY, EXTEND BARS A MINIMUM OF 24" EACH SIDE OF THE STUDS. IN CASE OF AN EDGE DISTANCE PROVIDE U-BANDS AWAY FROM THE EDGE DISTANCE.

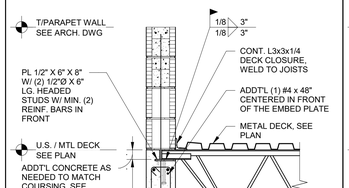
STEEL BEAM TO CONCRETE CONNECTION

5-005



STEEL BEAM CONNECTION AT CMU WALL DETAIL

5-010

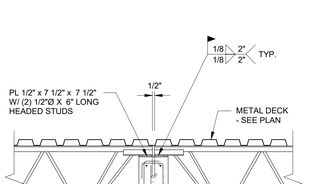


CONNECTION OF PRE-FABRICATED CURB TO ROOF STRUCTURE WHEN SUPPORTED BY ROOF JOIST

5-089

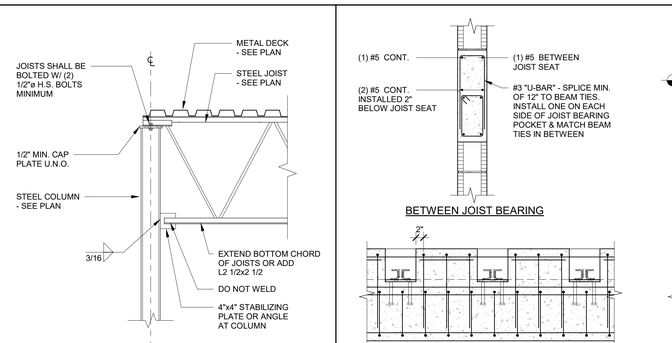
CONNECTION OF PRE-FABRICATED CURB TO ROOF STRUCTURE WHEN SUPPORTED BY STEEL BEAM

5-091



CONNECTION OF PRE-FABRICATED CURB TO ROOF STRUCTURE WHEN SUPPORTED BY ANGLES SPANNING BTW. ROOF JOIST

5-093



NOTES:

1. BEARING ENDS OF SLOPED JOISTS SHALL BE HORIZONTAL TO OBTAIN FULL CONTACT WITH SUPPORTING MEMBERS.
2. AT END BAYS, EXTEND ALL BOTTOM CHORDS & CONNECT TO SPANDREL BEAMS.
3. CEILING EXTENSIONS ARE REQUIRED FOR O.W.J. ABOVE HUNG CEILING AREAS WHERE SHOWN ON ARCH. DRAWINGS.

TYP. OPEN WEB JOIST DETAILS - SLOPED ROOF

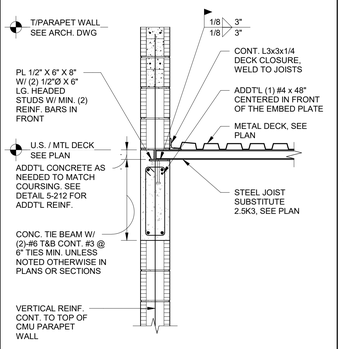
5-201

SECTION AT WALL SINGLE BEARING

5-204

SECTION AT WALL SINGLE BEARING

5-205



SECTION AT WALL SINGLE BEARING

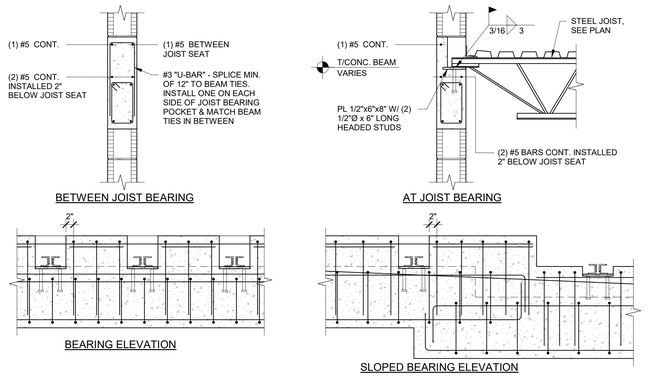
5-205a

SECTION AT WALL DOUBLE BEARING

5-206

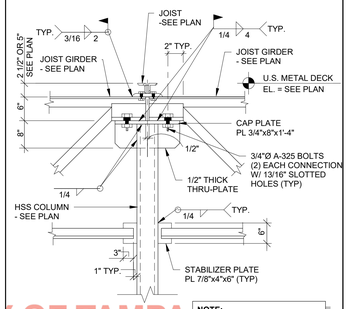
TYPICAL JOIST BEARING ON COLUMN

5-208



JOIST BEARING DETAILS

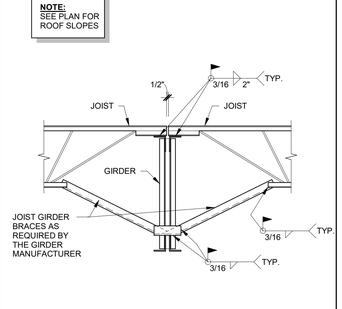
5-212



NOTE: DO NOT WELD BOTTOM CHORD TO STABILIZER PLATE

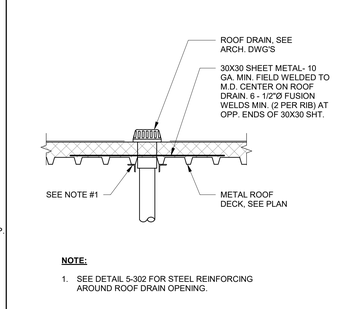
JOIST GIRDER TO COLUMN

5-213



TYP. JOIST TO GIRDER STRUT

5-219

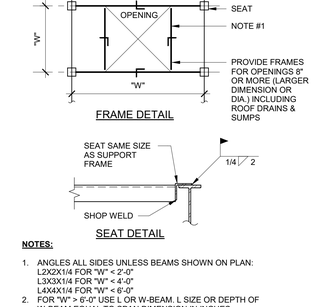


NOTE:

1. SEE DETAIL 5-302 FOR STEEL REINFORCING AROUND ROOF DRAIN OPENING.

TYP. DECK REINF. @ ROOF DRAIN W/O SUMP PAN

5-301

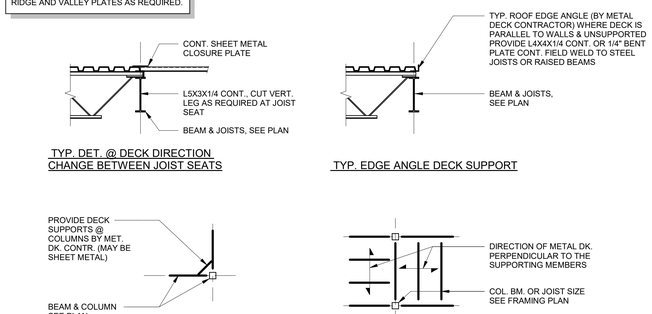


NOTES:

1. ANGLES ALL SIDES UNLESS BEAMS SHOWN ON PLAN: L2X2X1/4 FOR "W" < 2'-0" L3X3X1/4 FOR "W" < 4'-0" L4X4X1/4 FOR "W" < 6'-0"
2. FOR "W" > 6'-0" USE L OR W-BEAM. L SIZE OR DEPTH OF W-BEAM EQUAL TO SPAN DIMENSION IN INCHES. MINIMUM THICKNESS = 1/4".
3. FOR "W" > 10'-0" CONTACT ENGINEER OF RECORD FOR DETAIL.

TYP. ROOF OPN'G DETAIL

5-302



TYPICAL METAL DECK DETAILS

5-304

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BLD-25-0517072
9/3/2025

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BLD-25-0517072 9/3/2025
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ADG PROJECT NO. 1087

C.o.T. NO. 24-C-00032

PROJECT STATUS:

PERMIT DOCUMENTS

ISSUE DATE:

9/9/2024

REVISIONS:

DRAWN BY: DN/AN/VC

CHECKED BY: LB/NR/JM

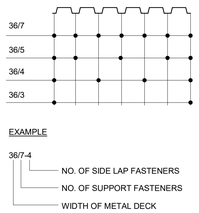
TPD HOWARD AVENUE ANNEX BUILDING

TYPICAL DETAILS

TRUE PROJECT NORTH:

S-304

TO THE BEST OF OUR KNOWLEDGE INFORMATION AND BELIEF, THESE STRUCTURAL PLANS CONFORM TO AND SATISFY, THE FLORIDA BUILDING CODE, 8TH EDITION 2023, ACI 318-19 AND LOCAL CODES AS APPLICABLE



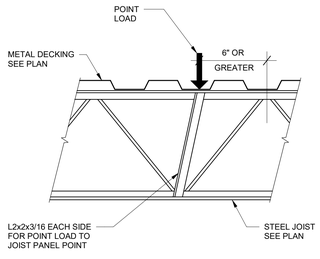
EXAMPLE

36/7-4

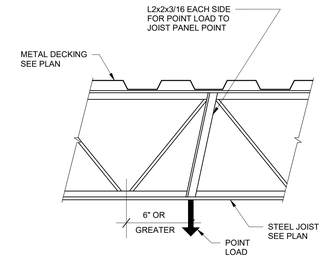
- NO. OF SIDE LAP FASTENERS
- NO. OF SUPPORT FASTENERS
- WIDTH OF METAL DECK

NOTES:
1. USE 5/8" Ø PUDDLE WELD AT SUPPORTS AND #12 SCREWS AT SIDE LAPS.
2. USE 36/7-4 UNLESS NOTED OTHERWISE IN PLANS.
3. USE 5/8" Ø PUDDLE WELDS @ 6" O.C. ALONG DECK CLOSURE ANGLE AND EMBED PLATE PARALLEL TO FRAMING UNLESS NOTED OTHERWISE IN PLANS.

TYPICAL 1-1/2" ROOF DECK FASTENER LAYOUT — 5-306

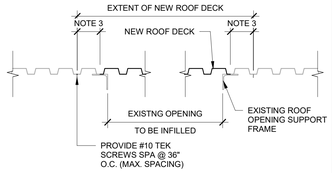


LOAD AT TOP CHORD



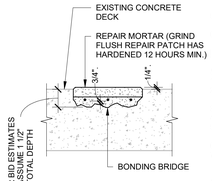
LOAD AT BOTTOM CHORD

TYPICAL ADDITIONAL WEB REINFORCEMENT FOR CONCENTRATED LOAD (WHEN POINT LOAD IS GREATER THAN 40 POUNDS) — 5-321



NOTES:
1. REMOVE EXISTING ROOFING MATERIAL AS REQUIRED TO INSTALL NEW ROOF DECK INFILL PATCH AND RE-ROOF AFTER INSTALLATION IS COMPLETE PER ARCHITECTURAL DRAWINGS.
2. EACH END OF NEW ROOF DECK TO EXTEND TO NEAREST STRUCTURAL SUPPORT PAST EXISTING OPENING. ATTACH DECK TO THE SUPPORTS AT EACH FLUTE PER TYPICAL DETAIL ABOVE.
3. OVERLAP NEW METAL ROOF DECK INFILL ONE FLUTE MINIMUM PAST EXISTING ROOF OPENING FRAME AND 6" MINIMUM EACH END.
4. NEW ROOF DECK TO MATCH PROFILE OF EXISTING DECK. (VULCRAFT 1.5F 2.0 OR EQUIVALENT).
5. WHERE OPENINGS ARE 12"X10" OR LESS, PROVIDE A 24"X24"X16 GA PLATE TACK WELDED TO TOP OF DECK CENTERED OVER OPENING.

ROOF DECK OPENING INFILL DETAIL — 5-399



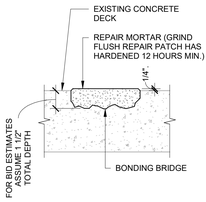
SURFACE PREPARATION
1. DETERMINE THE APPROXIMATE EDGE OF THE HOLLOW SOUNDING CONCRETE.
2. SAW CUT 1/4" DEEP THE PERIMETER OF AREA DAMAGED. TAKE SPECIAL CARE NOT TO CUT ANY REINFORCEMENT.
3. USING HAND TOOLS CHIP ALL UNSOUND CONCRETE WITHIN THE DAMAGE AREA. IF POST- TENSIONED CABLES ARE EXPOSED, STOP CHIPPING CONCRETE AND CONTACT THE ENGINEER. CHIP THE SURFACE TO OBTAIN A ROUGH SURFACE PROFILE WITH A MINIMUM DEPTH OF 1/2". IF EXPOSED DEPTH EXCEEDS 1-1/2" IN DEPTH, CONTACT THE ENGINEER.
4. WHERE MORE THAN HALF OF THE DIAMETER OF THE REINFORCEMENT BAR IS EXPOSED, USE HAND TOOLS TO REMOVE A MINIMUM OF 3/4" BEHIND THE REINFORCEMENT.
5. REINFORCING STEEL MUST BE MECHANICAL CLEANED TO REMOVE RUST, GREASE, OIL, & OTHER BOND-INHIBITING MATTER BY SAND-BLASTING.
6. IF REINFORCING BAR CROSS-SECTION AREA HAS BEEN REDUCED BY MORE THAN 20% CONTACT THE ENGINEER FOR INSTRUCTION.

REPAIR PROCEDURE:

SIKA PRODUCTS:
1. PRE-WET THE SURFACE TO SATURATED SURFACE DRY.
2. APPLY SIKA ARMATEC 110 WITH STIFF BRISTLE BRUSH OR SPRAY 10 MILS THICK COVERING ALL EXPOSED STEEL. CURE TO TACK- FREE 2-3 HOURS.
3. APPLY A SECOND COAT AT 10 MILS. COVERING ALL EXPOSED STEEL AND AREA TO BE PATCH. ALLOW TO DRY FOR 2-3 HOURS.
4. WORK A SCRUB COAT OF SIKATOP 122 MORTAR INTO THE SUBSTRATE TO ENSURE INTIMATE CONTACT AND ESTABLISH BOND.
5. APPLY SIKATOP 122 MORTAR, FOR APPLICATIONS GREATER THAN 1" IN DEEP, ADD A 3/8" COARSE AGGREGATE. PATCH MATERIAL SHOULD BE FINISHED APPROXIMATELY 1/4" HIGHER THAN SURROUNDING CONCRETE.
6. USE A WATER BASED CURING COMPOUND THAT MEETS ASTM C-309 OR USE CONTINUOUS LIGHT WATER FOGGING FOR 48 HOURS.
7. AFTER THE REPAIR MORTAR HAS REACHED ITS DESIGN STRENGTH, APPROXIMATELY 72 HOURS, GRIND SURFACE SMOOTH TO MATCH SURROUNDING CONCRETE.

STO PRODUCTS:
1. PRE-WET THE SURFACE TO SATURATED SURFACE DRY.
2. APPLY STO CR246 WITH STIFF BRISTLE BRUSH OR SPRAY 10 MILS THICK COVERING ALL EXPOSED STEEL. ALLOW TO DRY FOR 30 - 45 MINUTES.
3. APPLY A SCRUB COAT OF STO CR730 MORTAR INTO THE SUBSTRATE TO ENSURE INTIMATE CONTACT AND ESTABLISH BOND.
4. APPLY STO FLOWABLE MORTAR CR730, FOR APPLICATIONS GREATER THAN 1" IN. DEEP, ADD A 3/8" COARSE AGGREGATE. PATCH MATERIAL SHOULD BE FINISHED APPROXIMATELY 1/4" HIGHER THAN SURROUNDING CONCRETE.
5. USE A WATER BASED CURING COMPOUND THAT MEETS ASTM C-309 OR USE CONTINUOUS LIGHT WATER FOGGING FOR 48 HOURS.
6. AFTER THE REPAIR MORTAR HAS REACHED ITS DESIGN STRENGTH, APPROXIMATELY 72 HOURS, GRIND SURFACE SMOOTH TO MATCH SURROUNDING CONCRETE.

CONCRETE SPALL W/ EXPOSED STEEL — 9-001



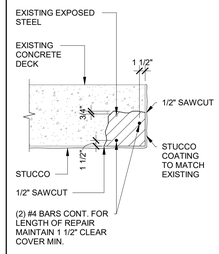
SURFACE PREPARATION
1. DETERMINE THE APPROXIMATE EDGE OF THE HOLLOW SOUNDING CONCRETE.
2. SAW CUT 1/4" DEEP THE PERIMETER OF AREA DAMAGED. TAKE SPECIAL CARE NOT TO CUT ANY REINFORCEMENT.
3. USING HAND TOOLS CHIP ALL UNSOUND CONCRETE WITHIN THE DAMAGE AREA. IF POST- TENSIONED CABLES ARE EXPOSED, STOP CHIPPING CONCRETE AND CONTACT THE ENGINEER. CHIP THE SURFACE TO OBTAIN A ROUGH SURFACE PROFILE WITH A MINIMUM DEPTH OF 1/2". IF EXPOSED DEPTH EXCEEDS 1-1/2" IN DEPTH, CONTACT THE ENGINEER.
4. WHERE MORE THAN HALF OF THE DIAMETER OF THE REINFORCEMENT BAR IS EXPOSED, USE HAND TOOLS TO REMOVE A MINIMUM OF 3/4" BEHIND THE REINFORCEMENT.
5. REINFORCING STEEL MUST BE MECHANICAL CLEANED TO REMOVE RUST, GREASE, OIL, & OTHER BOND-INHIBITING MATTER BY SAND-BLASTING.
6. IF REINFORCING BAR CROSS-SECTION AREA HAS BEEN REDUCED BY MORE THAN 20% CONTACT THE ENGINEER FOR INSTRUCTION.
7. INSTALL FORMS IF REQUIRED THAT ARE LINED OR COATED WITH RELEASE AGENT FOR EASY REMOVAL. SPECIAL CARE MUST BETAKEN WHEN APPLYING FORM RELEASE AGENT TO THE FORMS SO NONE OF THE STEEL OR EXISTING CONCRETE GETS COATED WITH IT.

REPAIR PROCEDURE:

SIKA PRODUCTS:
1. PRE-WET THE SURFACE TO SATURATED SURFACE DRY.
2. APPLY SIKA ARMATEC 110 WITH STIFF BRISTLE BRUSH OR SPRAY 10 MILS THICK COVERING ALL EXPOSED STEEL. CURE TO TACK- FREE 2-3 HOURS.
3. APPLY A SECOND COAT AT 10 MILS. COVERING ALL EXPOSED STEEL AND AREA TO BE PATCH. ALLOW TO DRY FOR 2-3 HOURS.
4. WORK A SCRUB COAT OF SIKATOP 122 MORTAR INTO THE SUBSTRATE TO ENSURE INTIMATE CONTACT AND ESTABLISH BOND.
5. WHILE SCRUB COAT IS STILL WET, APPLY SIKATOP 123 MORTAR. FOR APPLICATIONS GREATER THAN 1-1/2" IN. DEEP, APPLY SIKATOP 123 IN LIFTS. SCORE THE TOP SURFACE OF EACH LIFT TO PRODUCE A ROUGHENED SURFACE FOR THE NEXT LIFT. ALLOW PROCEEDING LIFT TO REACH FINAL SET REPEAT FROM STEP 4.
6. USE A WATER BASED CURING COMPOUND THAT MEETS ASTM C-309 OR USE CONTINUOUS LIGHT WATER FOGGING FOR 48 HOURS.

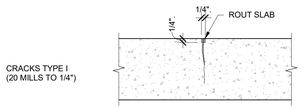
STO PRODUCTS:
1. PRE-WET THE SURFACE TO SATURATED SURFACE DRY.
2. APPLY STO CR246 WITH STIFF BRISTLE BRUSH OR SPRAY 10 MILS THICK COVERING ALL EXPOSED STEEL. ALLOW TO DRY FOR 30 - 45 MINUTES.
3. APPLY A SECOND COAT AT 10 MILS. COVERING ALL EXPOSED STEEL AND AREA TO BE PATCH. ALLOW TO DRY FOR 2-3 HOURS.
4. WORK A SCRUB COAT OF STO CR702 MORTAR INTO THE SUBSTRATE TO ENSURE INTIMATE CONTACT AND ESTABLISH BOND.
5. WHILE SCRUB COAT IS STILL WET, APPLY STO OVERHEAD MORTAR CR702. FOR APPLICATIONS GREATER THAN 1-1/2" IN. DEEP, APPLY STO OVERHEAD MORTAR IN LIFTS. SCORE THE TOP SURFACE OF EACH LIFT TO PRODUCE A ROUGHENED SURFACE FOR THE LIFT. ALLOW PRECEDING LIFT TO REACH FINAL SET REPEAT FROM STEP 4.
6. USE A WATER BASED CURING COMPOUND THAT MEETS ASTM C-309 OR USE CONTINUOUS LIGHT WATER FOGGING FOR 48 HOURS.

CONCRETE SPALL W/O EXPOSED STEEL — 9-002



NOTE:
FOR BID ESTIMATES ASSUME 3" TOTAL DEPTH VERTICAL AND HORIZONTAL

CONCRETE EDGE REPAIR OF CRACKS & SPALLS — 9-003



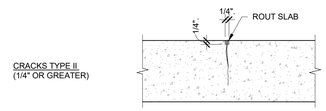
SURFACE PREPARATION:
1. VEE NOTCH THE SURFACE OF THE CRACK WITH A MECHANICAL ROUTER OR HAND CHIPPING TOOL TO A MAXIMUM WIDTH OF A 1/4". REMOVE LOOSE DEBRIS.
2. REMOVE ALL DUST, LAITANCE, GREASE, CURING COMPOUND, WAXES, IMPREGNATION'S, FOREIGN PARTICLES, EFFLORESCENCE AND OTHER BOND INHIBITING MATERIALS FROM THE SURFACE BY MECHANICAL MEANS, I.E. - SANDBLASTING, HIGH PRESSURE WATER BLASTING, ETC., AS APPROVED BY ENGINEER.
3. SEAL UNDERSIDE OF SLAB IF CRACKS REFLECT THROUGH WITH AN EPOXY GEL.

REPAIR PROCEDURE:

SIKA PRODUCTS:
1. POUR NEAT SIKADUR 35 HI-MOD LV EPOXY RESIN ADHESIVE INTO VEE NOTCHED CRACK. REPLENISH THE RESERVOIR WITH THE MIXED EPOXY RESIN ADHESIVE UNTIL CRACKS HAVE BEEN COMPLETELY FILLED.
2. IF PENETRATION OF ANY CRACK IS IMPOSSIBLE, CONSULT THE ENGINEER.

STO PRODUCTS:
1. POUR NEAT STO EPOXY BINDER CR633 INTO VEE NOTCHED CRACK. REPLENISH THE RESERVOIR WITH THE MIXED EPOXY RESIN ADHESIVE UNTIL CRACKS HAVE BEEN COMPLETELY FILLED.
2. IF PENETRATION OF ANY CRACK IS IMPOSSIBLE, CONSULT THE ENGINEER.

TYPICAL SECTION - CRACK TYPE I (20 MILLS TO 1/4") — 9-004



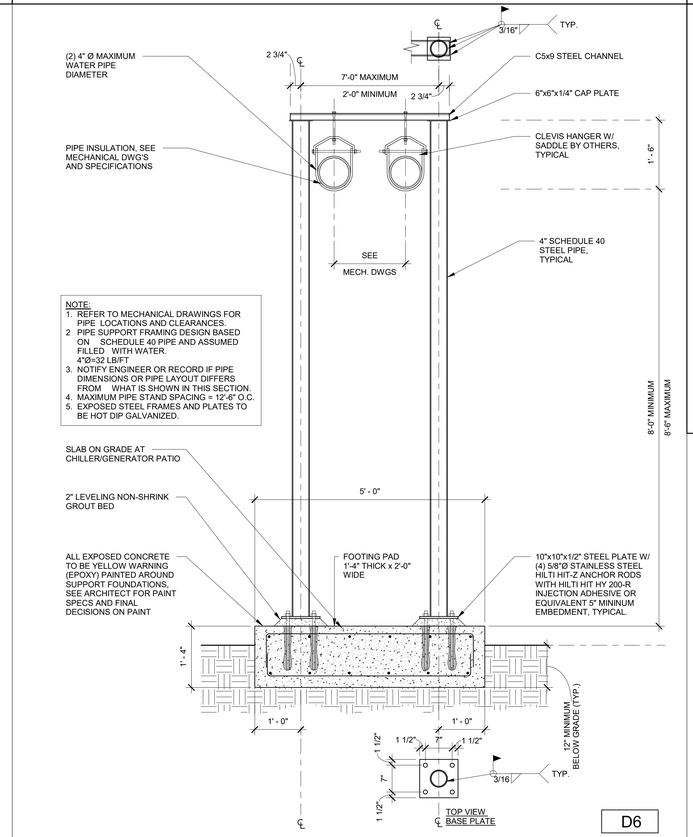
SURFACE PREPARATION:
1. VEE NOTCH THE SURFACE OF THE CRACK WITH A MECHANICAL ROUTER OR HAND CHIPPING TOOL TO A MAXIMUM WIDTH OF A 1/2". REMOVE LOOSE DEBRIS.
2. REMOVE ALL DUST, LAITANCE, GREASE, CURING COMPOUND, WAXES, IMPREGNATION'S, FOREIGN PARTICLES, EFFLORESCENCE AND OTHER BOND INHIBITING MATERIALS FROM THE SURFACE BY MECHANICAL MEANS, I.E. - SANDBLASTING, HIGH PRESSURE WATER BLASTING, ETC., AS APPROVED BY ENGINEER.
3. SEAL UNDERSIDE OF SLAB IF CRACKS REFLECT THROUGH.

REPAIR PROCEDURE:

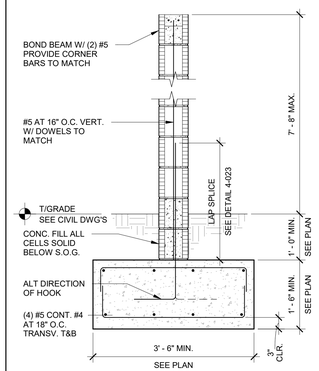
SIKA PRODUCTS:
1. PRIOR TO PRODUCT APPLICATION SUBSTRATE SHOULD BE SATURATED SURFACE DRY (SSD) WITH NO STANDING WATER.
2. POUR NEAT SIKA TOP 111 INTO VEE NOTCHED CRACK. CONTINUE PLACEMENT UNTIL CRACK IS COMPLETELY FILLED.
3. IF PENETRATION OF ANY CRACK IS IMPOSSIBLE, CONSULT THE ENGINEER.

STO PRODUCTS:
1. FILL CRACK WITH OVEN-DRIED SAND PRIOR TO THE APPLICATION OF THE STO EPOXY BINDER.
2. POUR NEAT STO EPOXY BINDER CR633 INTO VEE NOTCHED CRACK. REPLENISH THE RESERVOIR WITH THE MIXED EPOXY RESIN ADHESIVE UNTIL CRACKS HAVE BEEN COMPLETELY FILLED.
3. IF PENETRATION OF ANY CRACK IS IMPOSSIBLE, CONSULT THE ENGINEER.

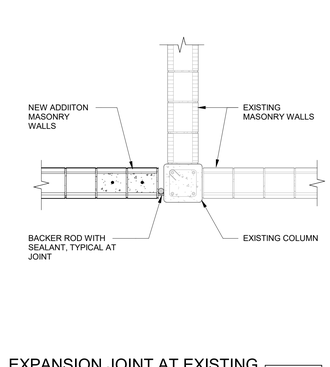
TYPICAL SECTION - CRACK TYPE II (1/4" OR GREATER) — 9-005



D6



CMU SCREEN WALL — 4-045



EXPANSION JOINT AT EXISTING BUILDING WITH NEW ADDITION — D5

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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:

PERMIT DOCUMENTS

ISSUE DATE:

9/9/2024

REVISIONS:

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CHECKED BY: **LB/NR/JM**

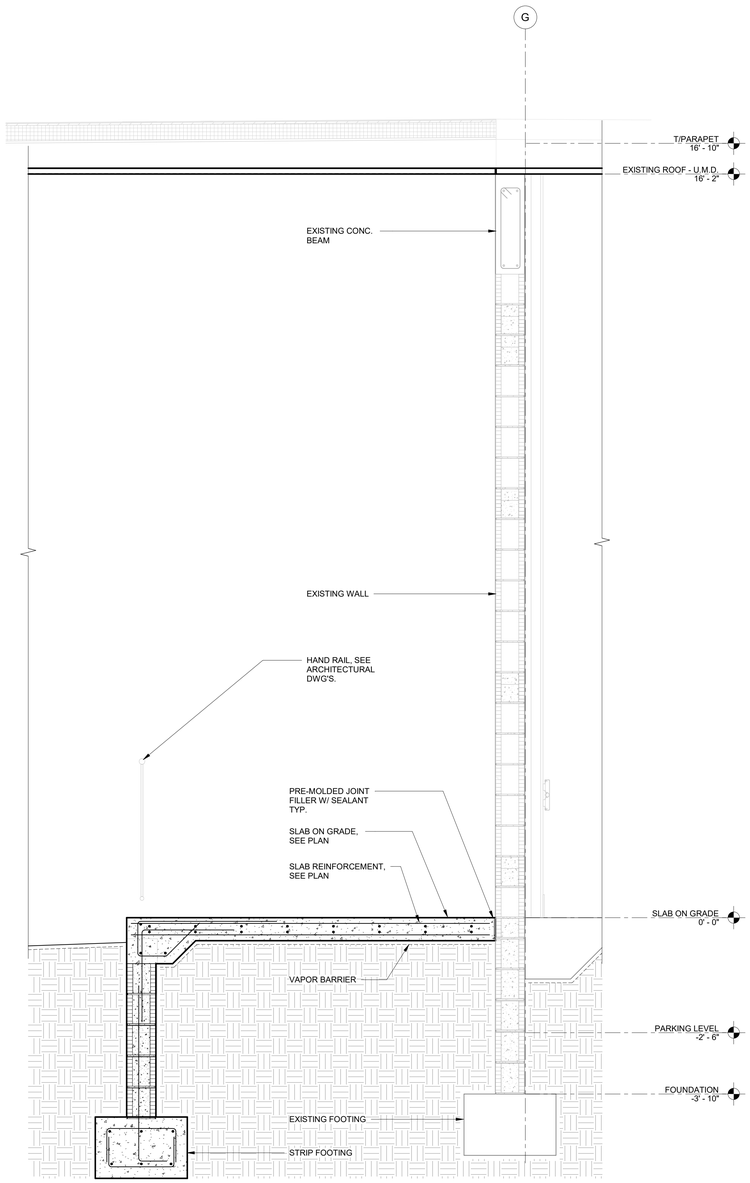
TPD HOWARD AVENUE ANNEX BUILDING

TYPICAL DETAILS

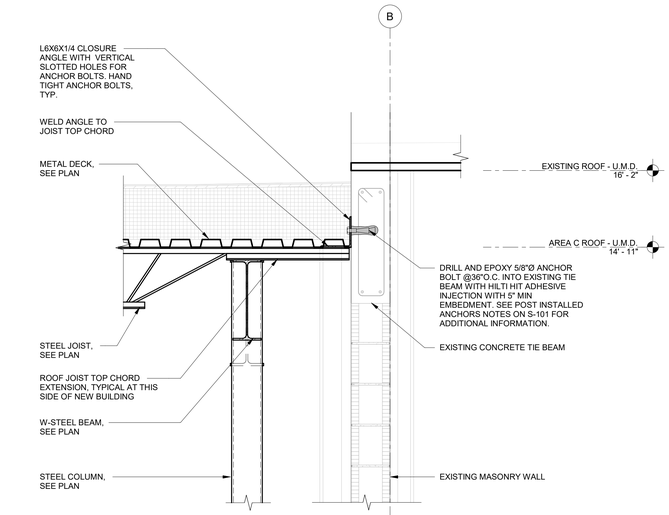
TRUE PROJECT NORTH:

S-305

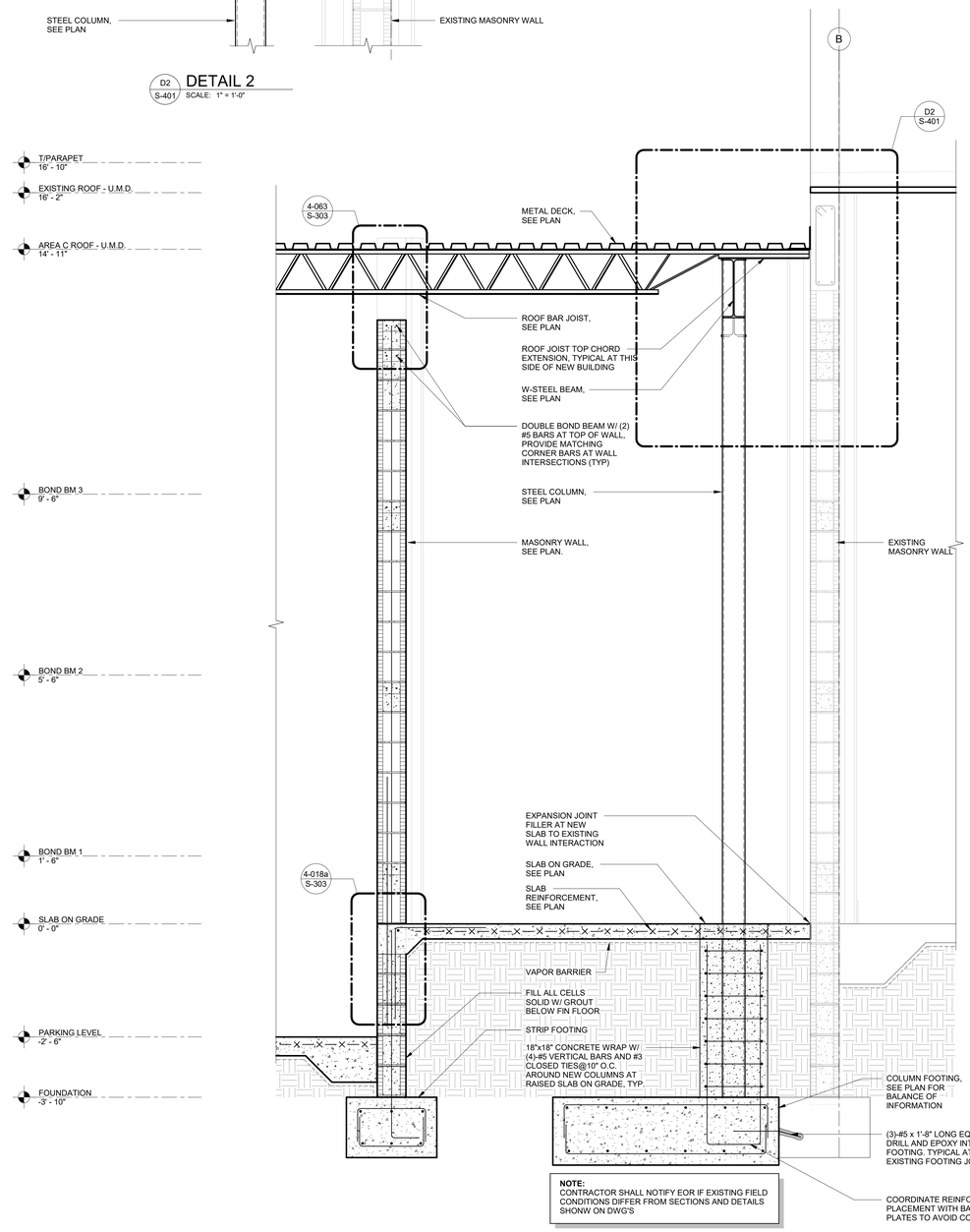
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S1 / S-401 SECTION 1
SCALE: 3/4" = 1'-0"



D2 / S-401 DETAIL 2
SCALE: 1" = 1'-0"



S2 / S-401 SECTION 2
SCALE: 3/4" = 1'-0"

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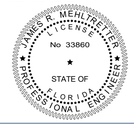
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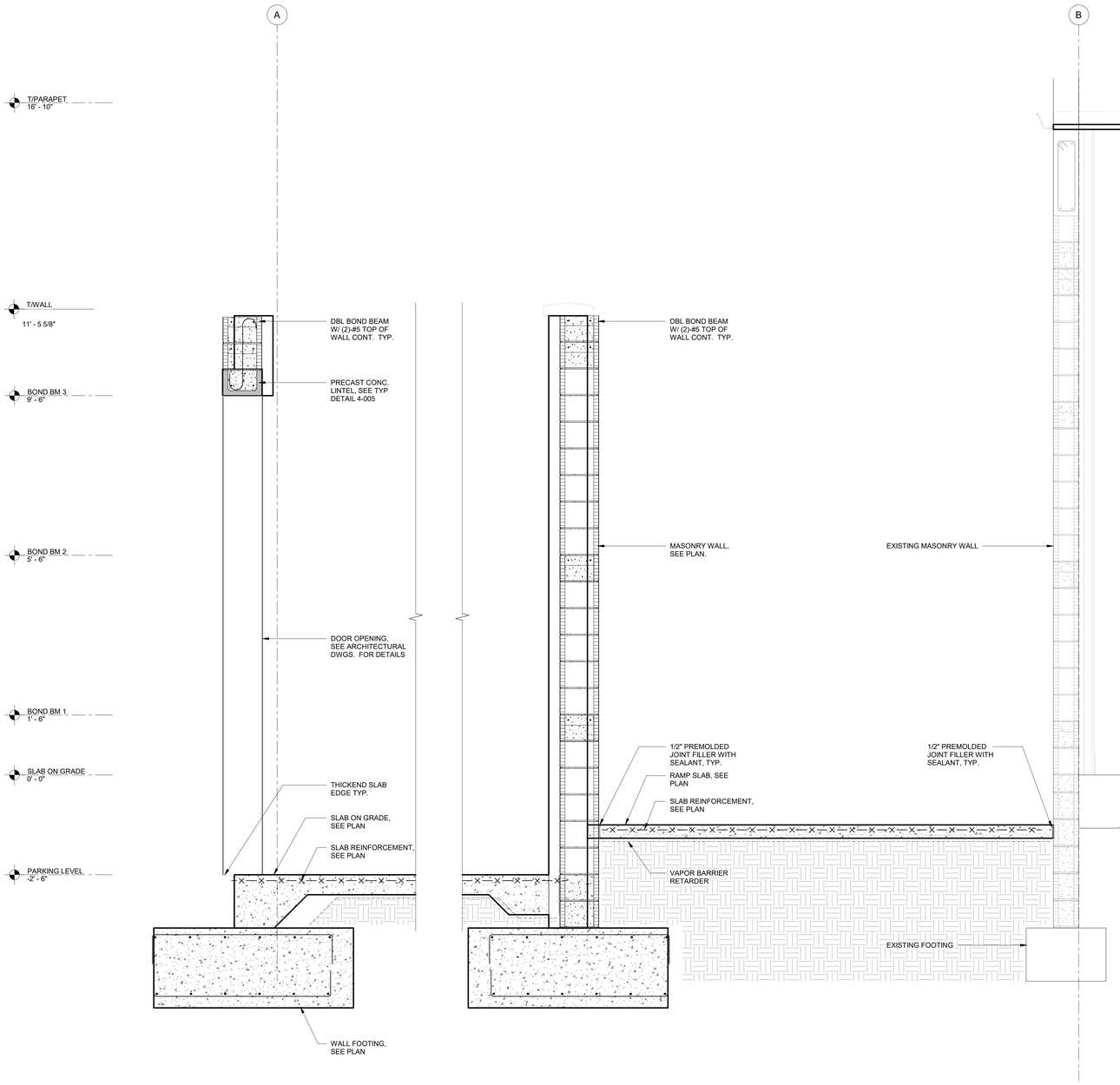
TPD HOWARD AVENUE ANNEX BUILDING

SECTIONS AND DETAILS

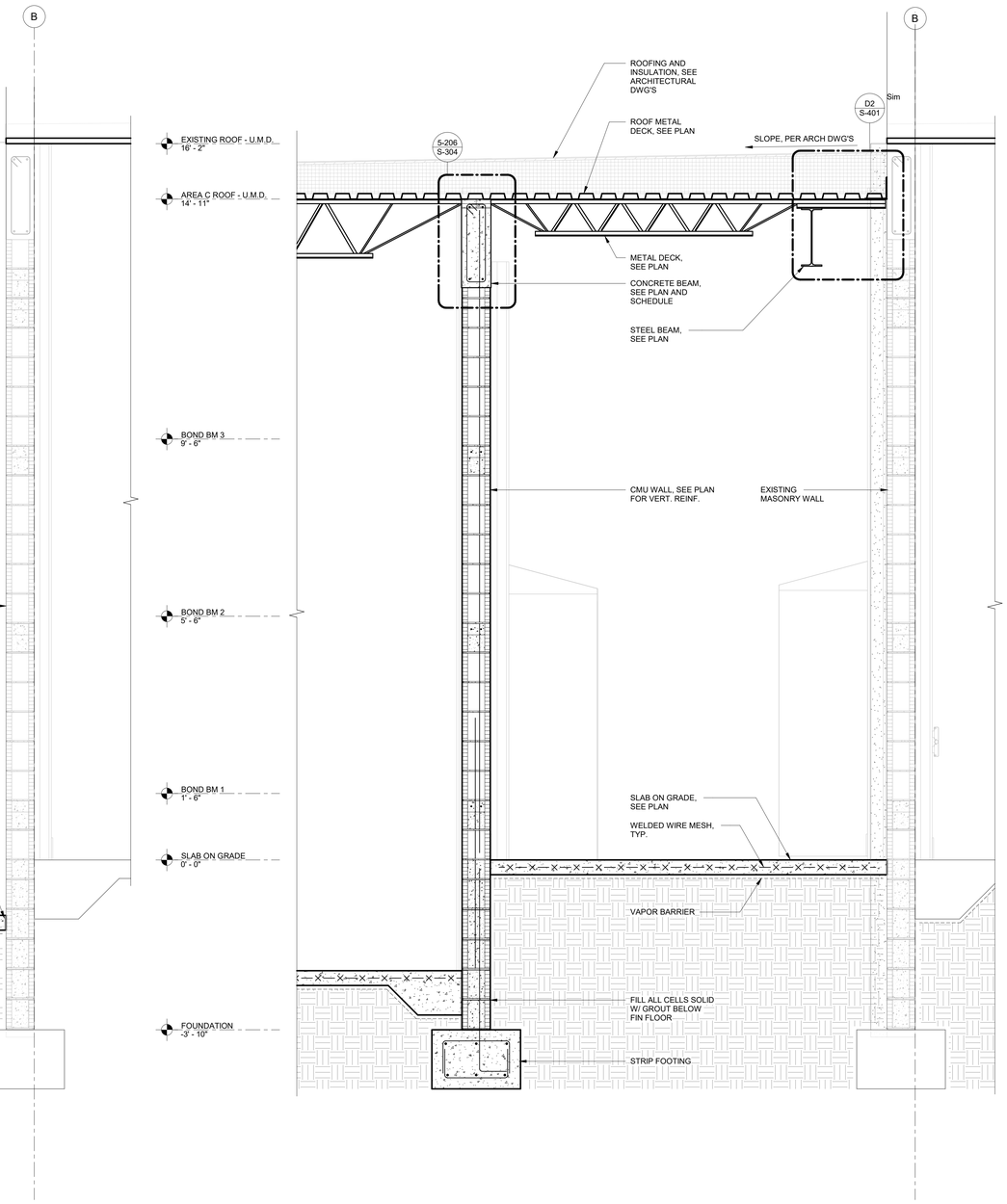
TRUE PROJECT NORTH:

S-401

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S4 / S-402 SECTION 4
SCALE: 3/4" = 1'-0"



S3 / S-402 SECTION 3
SCALE: 3/4" = 1'-0"

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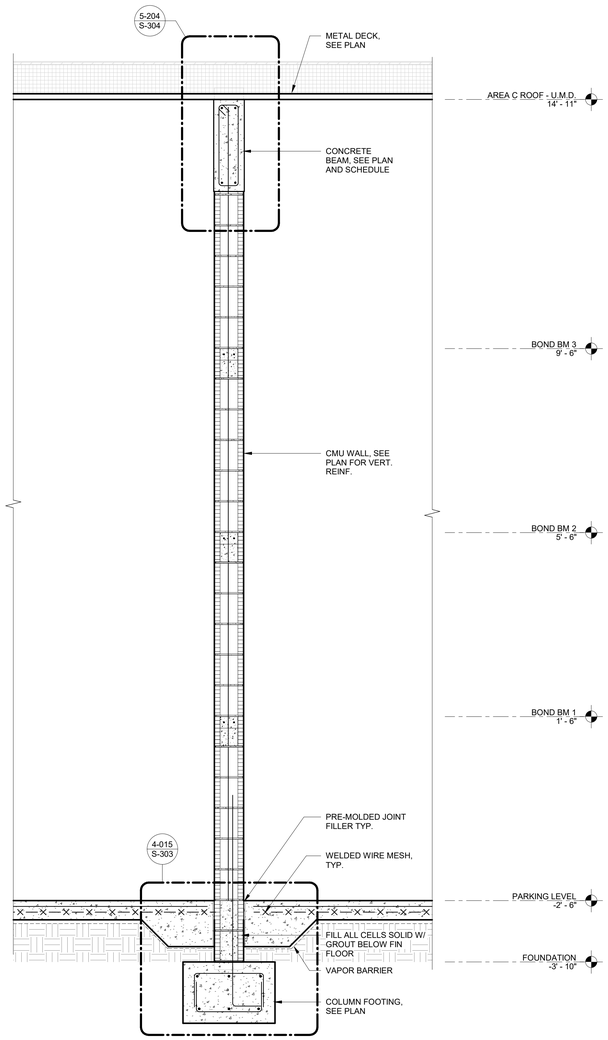
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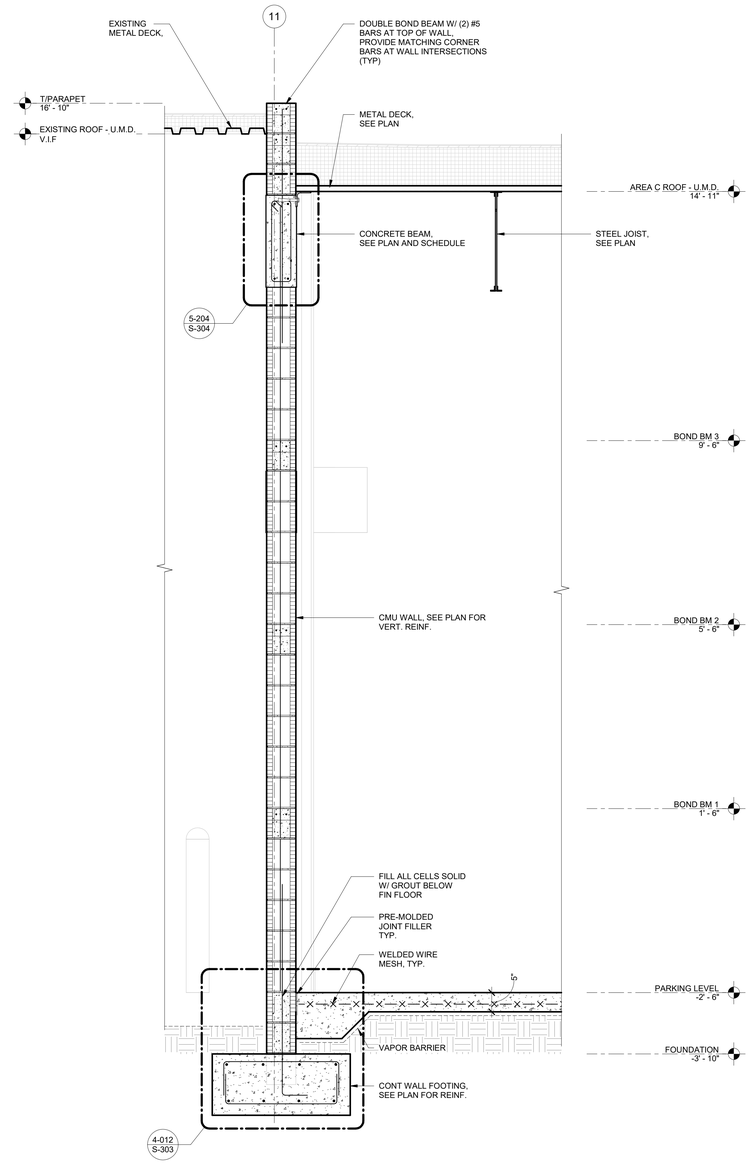
SECTIONS AND DETAILS

TRUE PROJECT NORTH:

S-402



S5 / S-403 SECTION 5
SCALE: 3/4" = 1'-0"



S6 / S-403 SECTION 6
SCALE: 3/4" = 1'-0"

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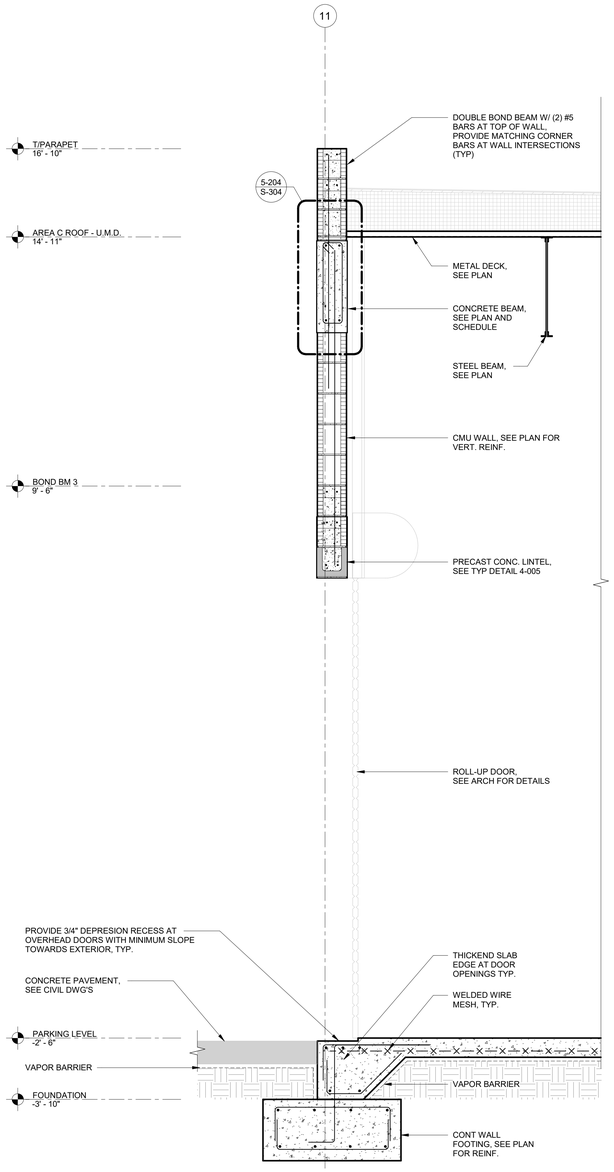
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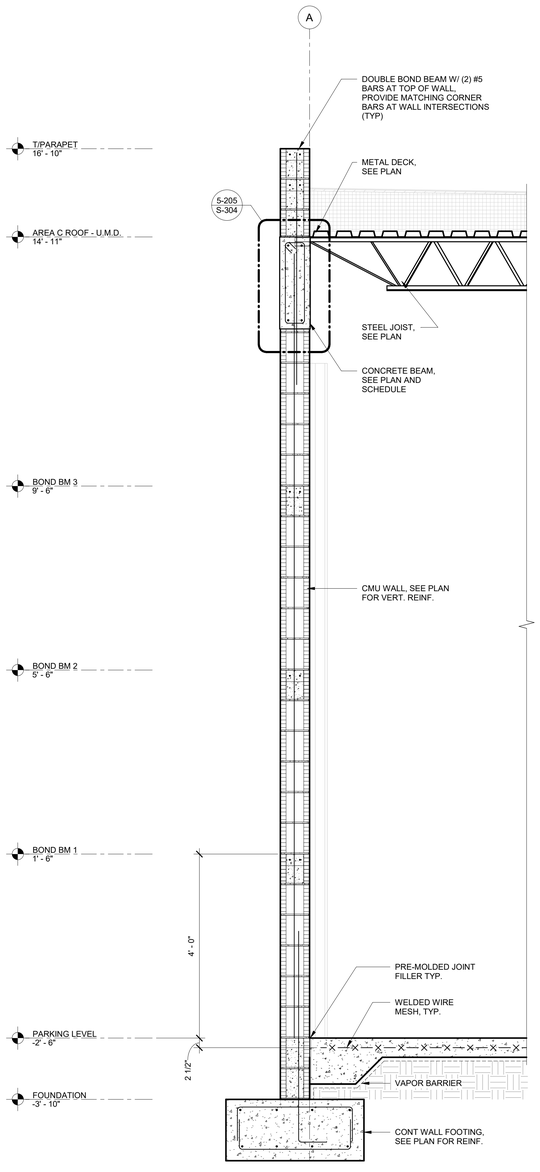
SECTIONS AND DETAILS

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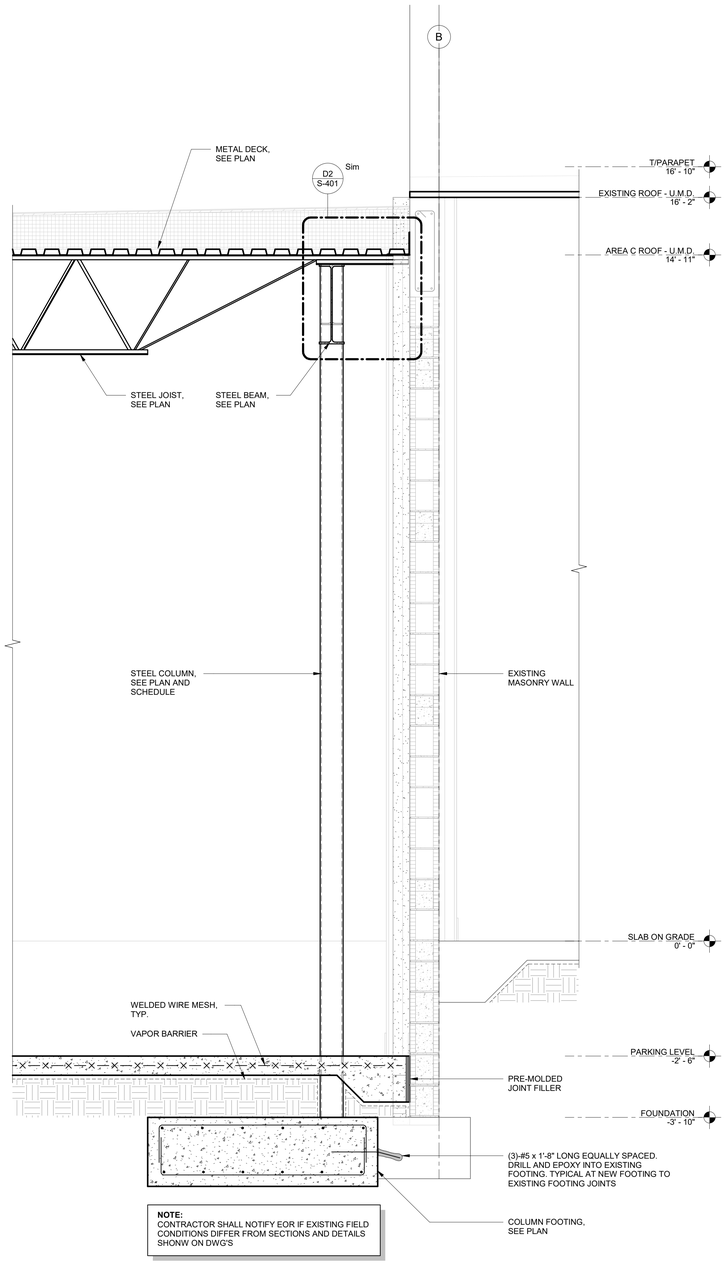
S-403



S7 / S-404 SECTION 7
SCALE: 3/4" = 1'-0"



S8 / S-404 SECTION 8
SCALE: 3/4" = 1'-0"



S9 / S-404 SECTION 9
SCALE: 3/4" = 1'-0"

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CA: 8426 PROJ NO. 3230-001

SIGNITURE AND SEAL:

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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:
PERMIT DOCUMENTS

ISSUE DATE:
9/9/2024

REVISIONS:

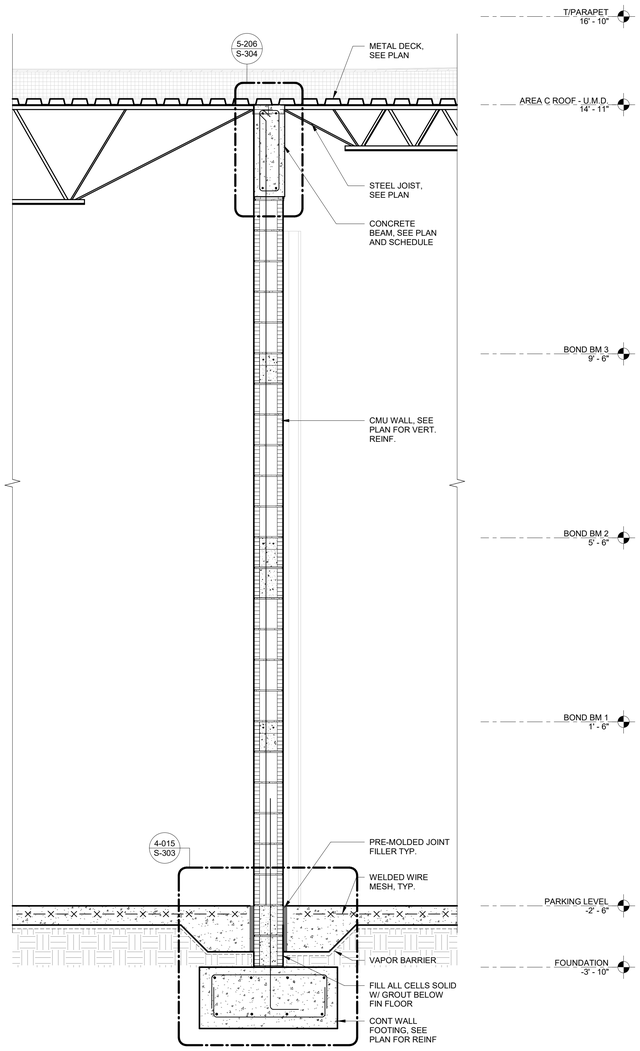
DRAWN BY: **DN/AN/VC**
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TPD HOWARD AVENUE ANNEX BUILDING

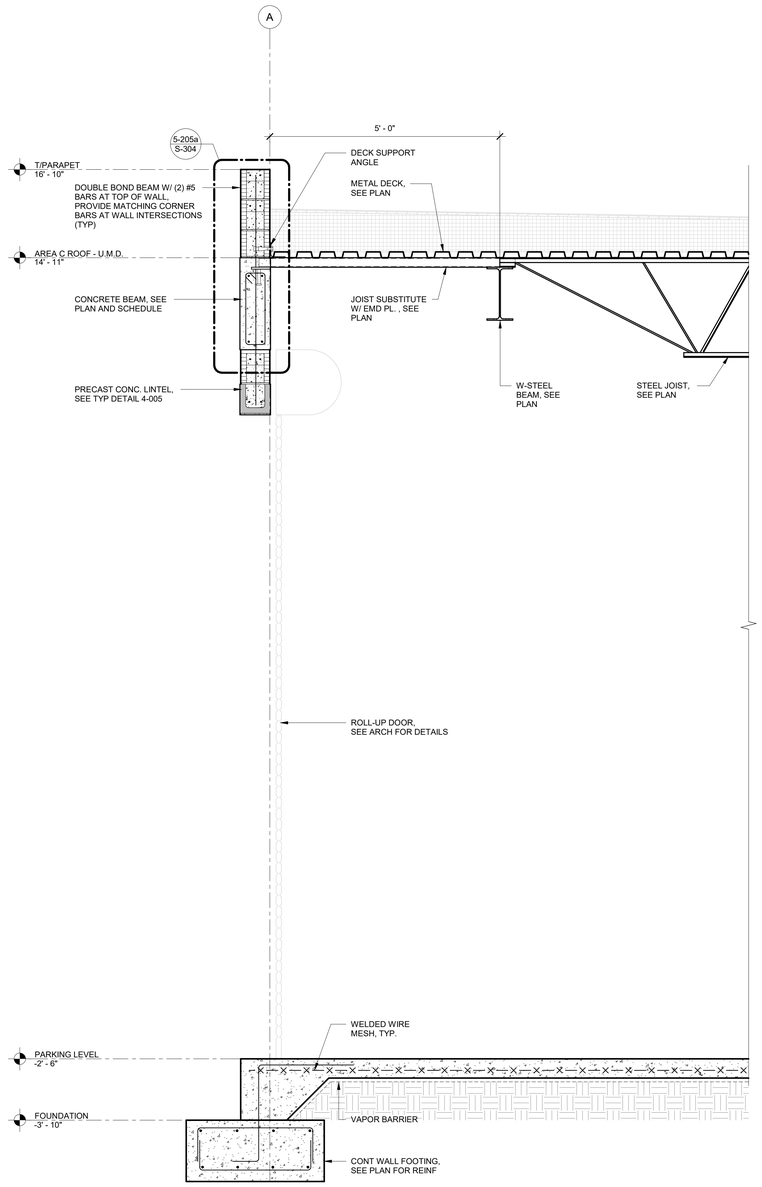
SECTIONS AND DETAILS

TRUE PROJECT NORTH:

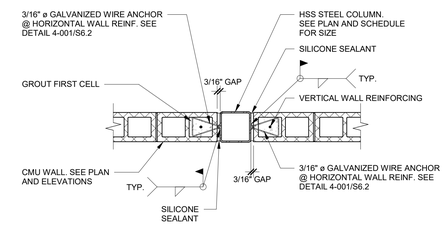
S-404



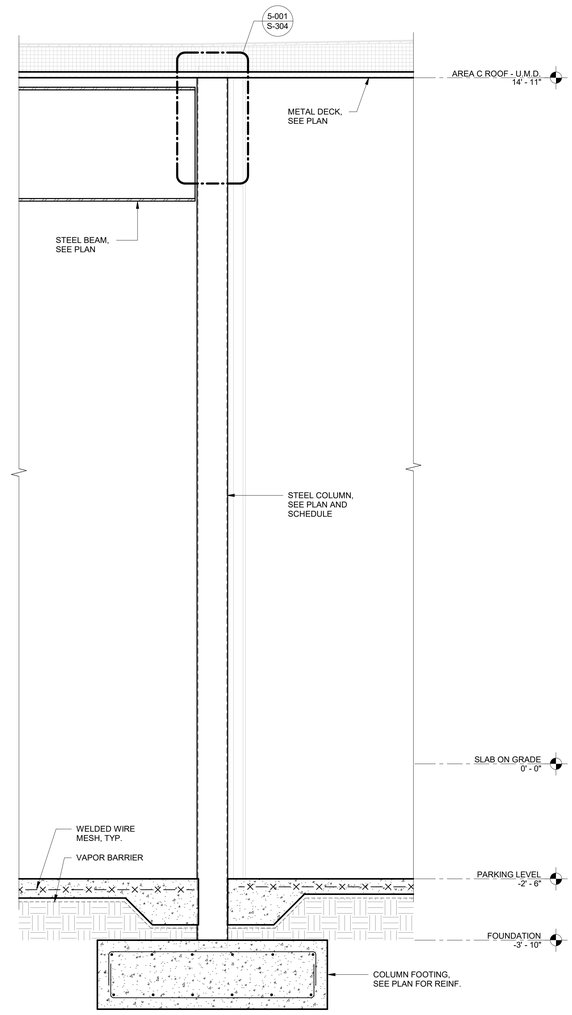
S10 S-405 SECTION 10
SCALE: 3/4" = 1'-0"



S11 S-405 SECTION 11
SCALE: 3/4" = 1'-0"



D3 S-405 STEEL COLUMN TO CMU WALL CONNECTION
SCALE: 3/4" = 1'-0"



S12 S-405 SECTION 12
SCALE: 3/4" = 1'-0"

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BLD-25-0517072 9/3/2025
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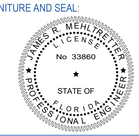
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C.o.T. NO. **24-C-00032**

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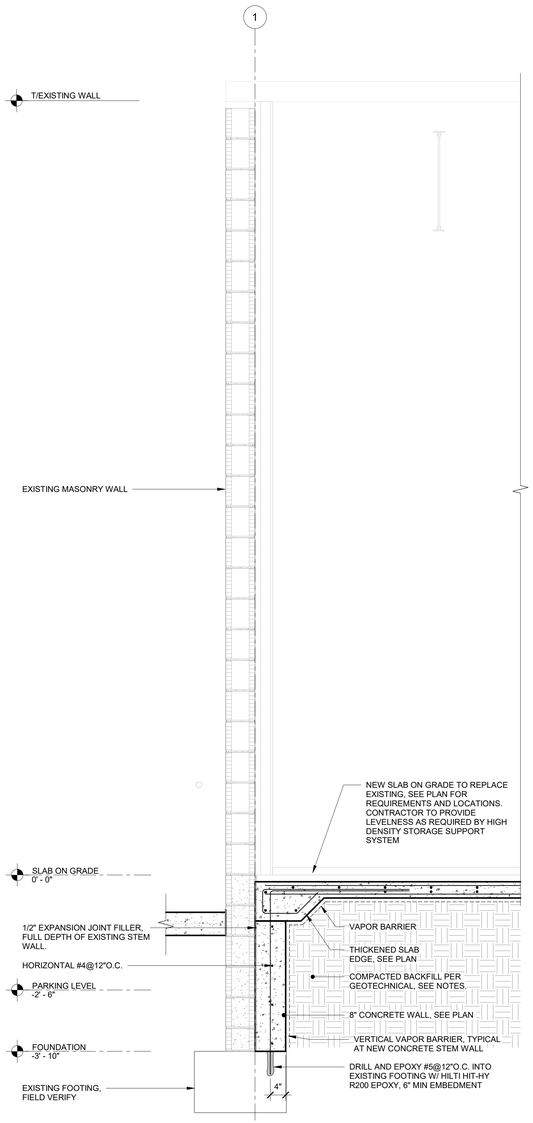
TPD HOWARD AVENUE ANNEX BUILDING

SECTIONS AND DETAILS

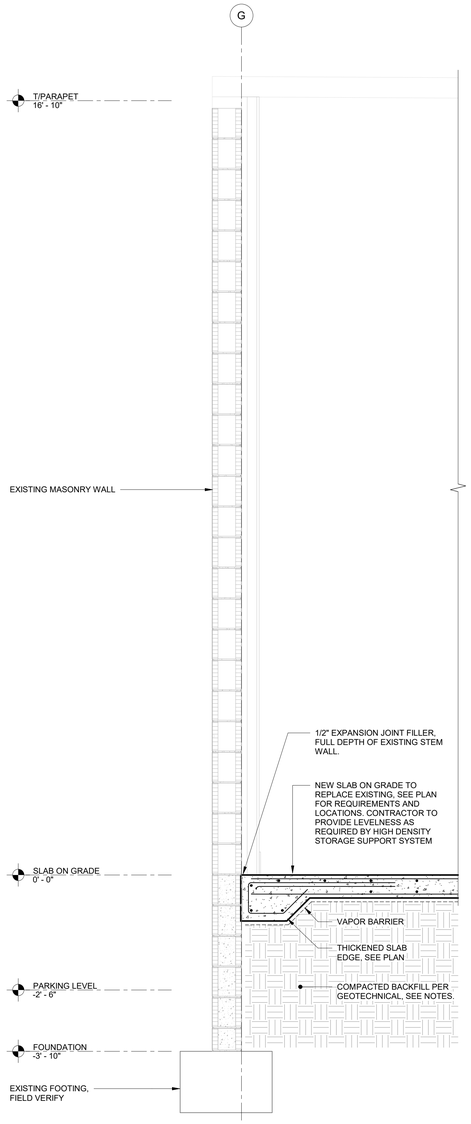
TRUE PROJECT NORTH:

S-405

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TYP. AT HIGH DENSITY STORAGE SHELVING



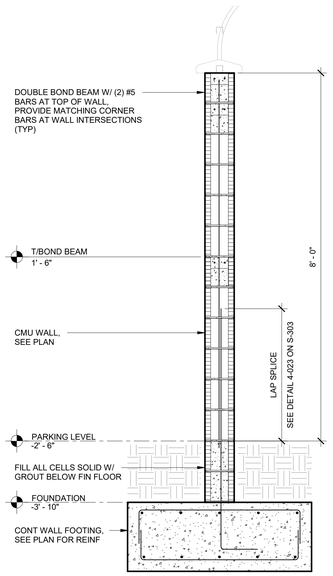
TYP. AT BALANCE OF AREAS

NOTES:

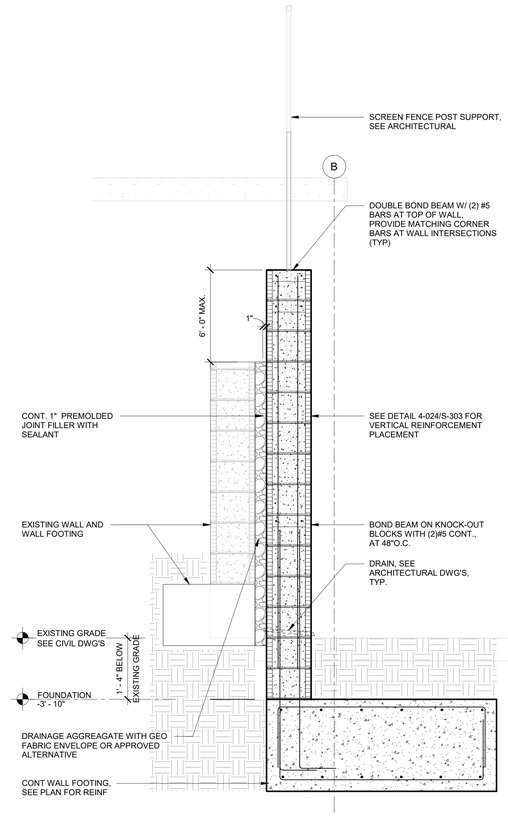
1. MINIMUM MODULUS OF SUBGRADE REACTION RECOMMENDED BY GEOTECHICAL ENGINEER. GEOTECHNICAL AND GENERAL CONTRACTOR TO FIELD VERIFY THIS VALUE, OR PROVIDE PROPER GEOTECHNICAL RECOMMENDATIONS AND REQUIREMENTS FOR COMPLIANCE.
2. IN ORDER TO ACHIEVE VALUES RECOMMENDED ABOVE, SOIL WILL BE COMPACTED PER GEOTECHNICAL REPORT REQUIREMENTS.
3. BACKFILLING AGAINST WALL FOUNDATIONS SHALL BE DONE CAREFULLY WITH SMALL COMPACTION EQUIPMENT TO REDUCE HORIZONTAL PRESSURE ON STEM WALLS.

S14 / S-406 SECTION 14
SCALE: 3/4" = 1'-0"

S15 / S-406 SECTION 15
SCALE: 3/4" = 1'-0"



S16 / S-406 SECTION 16
SCALE: 3/4" = 1'-0"



NOTES:

1. REFER TO ARCHITECTURAL DWG'S FOR WALL ELEVATIONS AND PROFILE.
2. FIELD CONDITION NEEDS TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO ANY SHOP DWG'S PRODUCTION OR CONSTRUCTION. DISCREPANCIES WITH THIS DETAIL SHALL BE NOTIFY TO EOR FOR REVIEW AND ADDITIONAL PROVISIONS AS REQUIRED.
3. CONTRACTOR SHALL VERIFY WITH GEOTECHNICAL ENGINEER FOR ANY EARTH STABILIZATION REQUIREMENTS BELOW EXISTING ADJACENT FOOTING PRIOR TO DIGGING.

S17 / S-406 SECTION 17
SCALE: 3/4" = 1'-0"

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CA: 8426 PROJ NO. 3230-001

SIGNITURE AND SEAL:

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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:

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REVISIONS:

DRAWN BY: **DN/AN/VC**

CHECKED BY: **LB/NR/JM**

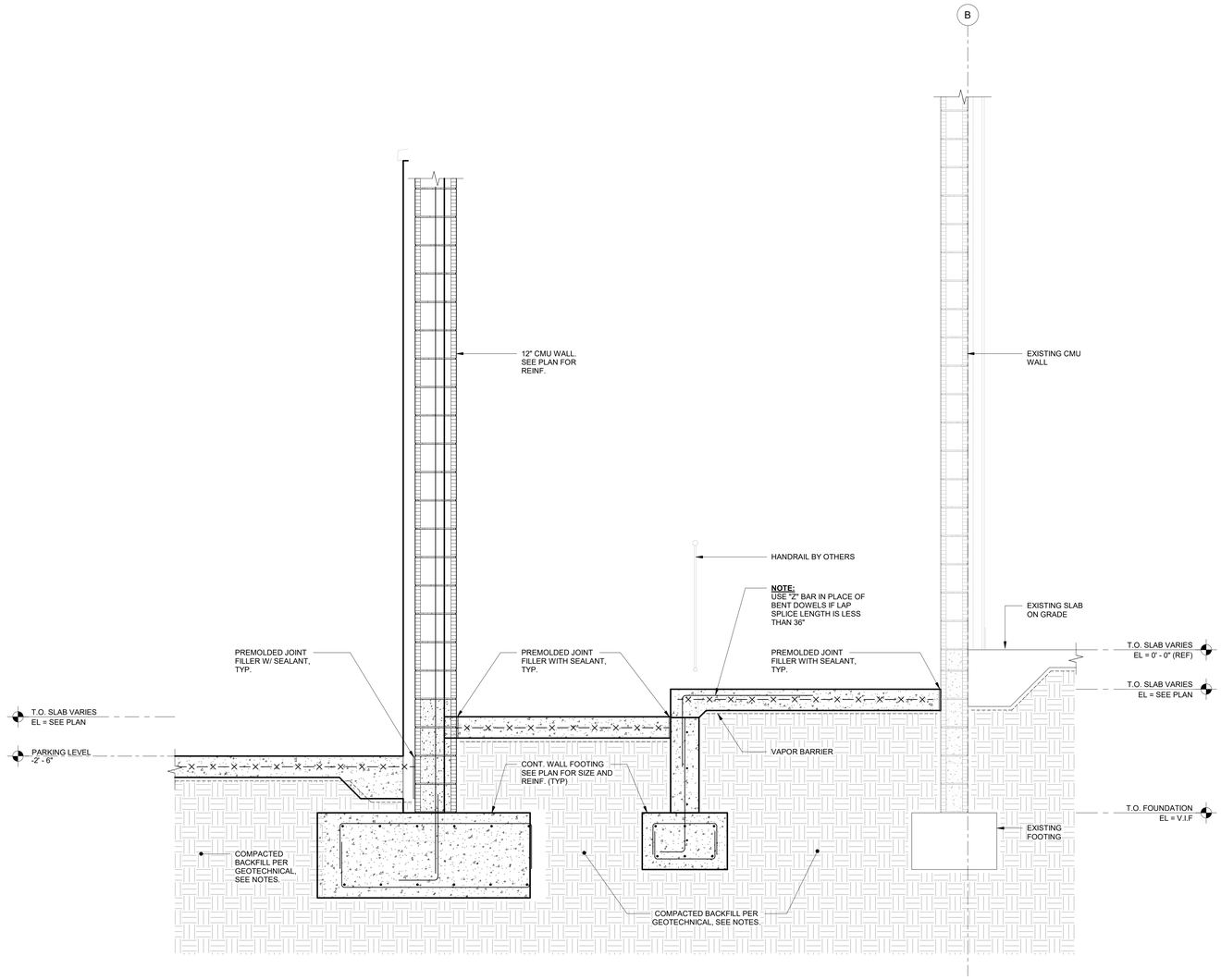
TPD HOWARD AVENUE ANNEX BUILDING

SECTIONS AND DETAILS

TRUE PROJECT NORTH:

S-406

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S18 / S-407 SECTION 18
SCALE: 3/4" = 1'-0"

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TPD HOWARD AVENUE ANNEX BUILDING

SECTIONS AND DETAILS

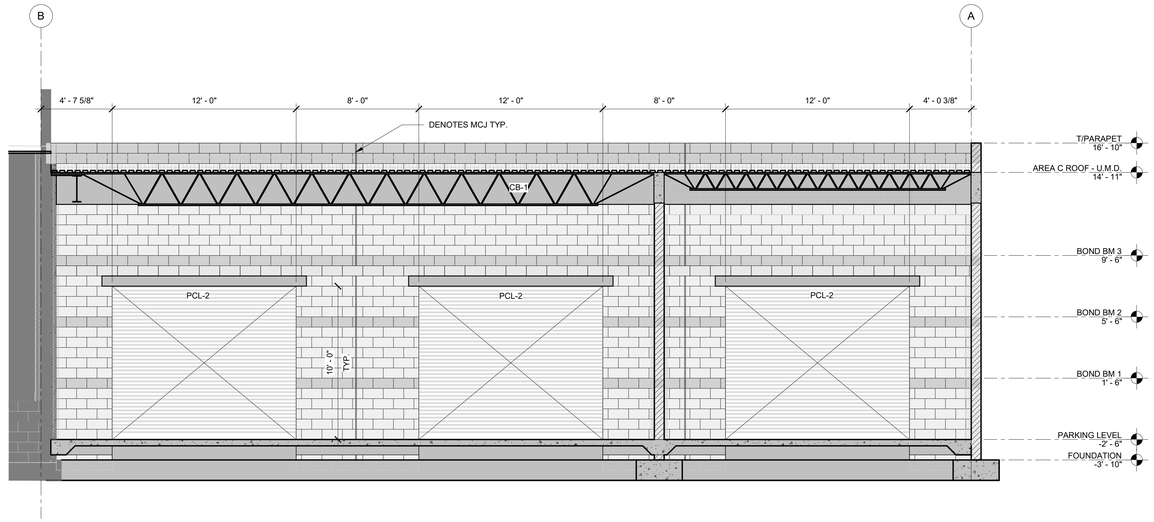
TRUE PROJECT NORTH:

S-407

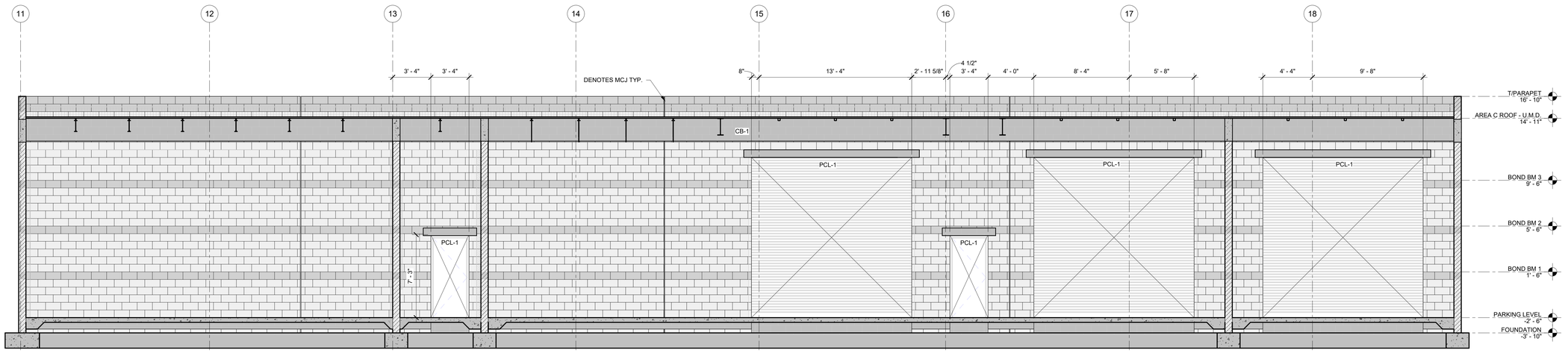
WALL ELEVATION NOTES:

1. WALL REINFORCING TO BE SPLICED ABOVE SLAB ON GRADE AND ELEVATED SLABS PER TYPICAL DETAILS.
2. REINFORCING SHOWN ON WALL ELEVATIONS APPLY TO THE SPECIFIED AREAS ONLY.
3. BALANCE OF REINFORCING PER THE SCHEDULE SHOWN ON FOUNDATION OR SLAB ON GRADE PLANS INCLUDING TYPICAL REINFORCING AT WALL OPENINGS, CORNERS, AND INTERSECTION.
4. TYPICAL WALL REINFORCING AT OPENINGS, CORNERS, AND INTERSECTIONS:

WALL OPENING | CORNER | INTERSECTION



E1 S-501 WALL ELEVATION 1
SCALE: 1/4" = 1'-0"



E2 S-501 WALL ELEVATION 2
SCALE: 1/4" = 1'-0"

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TPD HOWARD AVENUE ANNEX BUILDING

ELEVATIONS

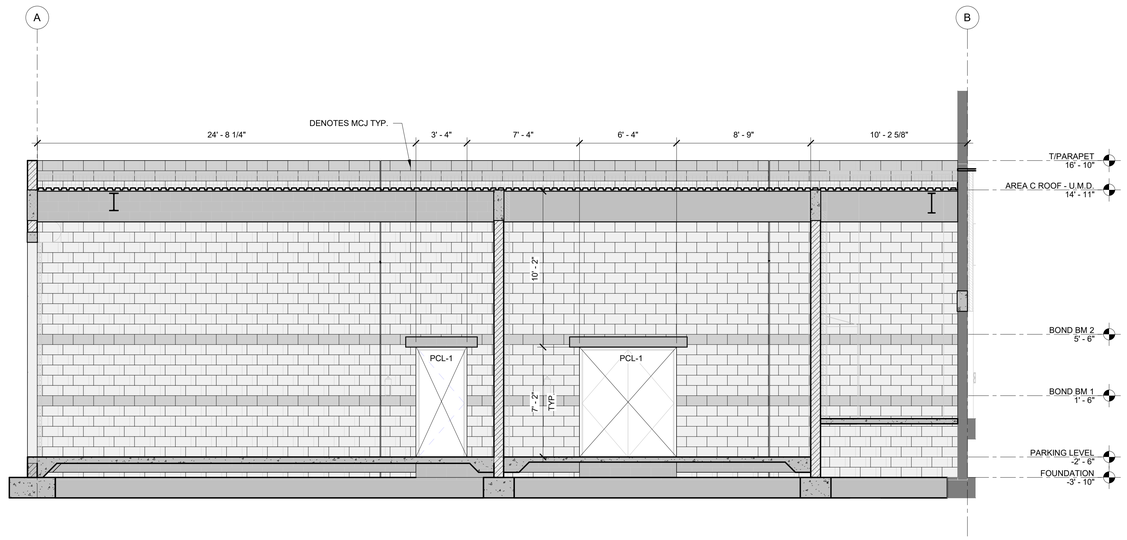
TRUE PROJECT NORTH:

S-501

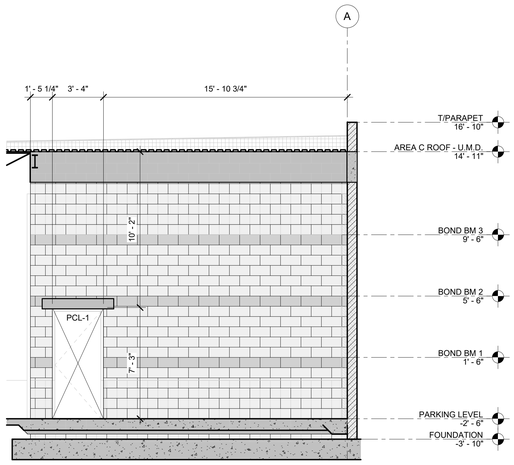
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4. TYPICAL WALL REINFORCING AT OPENINGS, CORNERS, AND INTERSECTIONS:

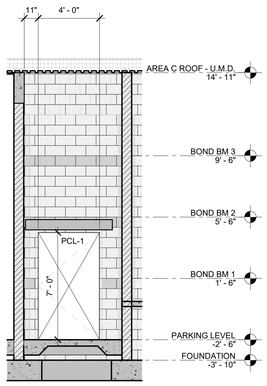
WALL OPENING | CORNER | INTERSECTION



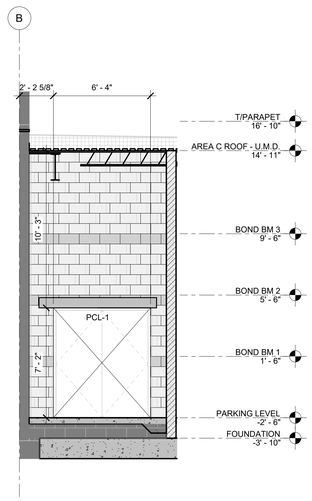
E3 / S-502 WALL ELEVATION 3
SCALE: 1/4" = 1'-0"



E4 / S-502 WALL ELEVATION 4
SCALE: 1/4" = 1'-0"



E5 / S-502 WALL ELEVATION 5
SCALE: 1/4" = 1'-0"



E6 / S-502 WALL ELEVATION 6
SCALE: 1/4" = 1'-0"

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TPD HOWARD AVENUE ANNEX BUILDING

ELEVATIONS

TRUE PROJECT NORTH:

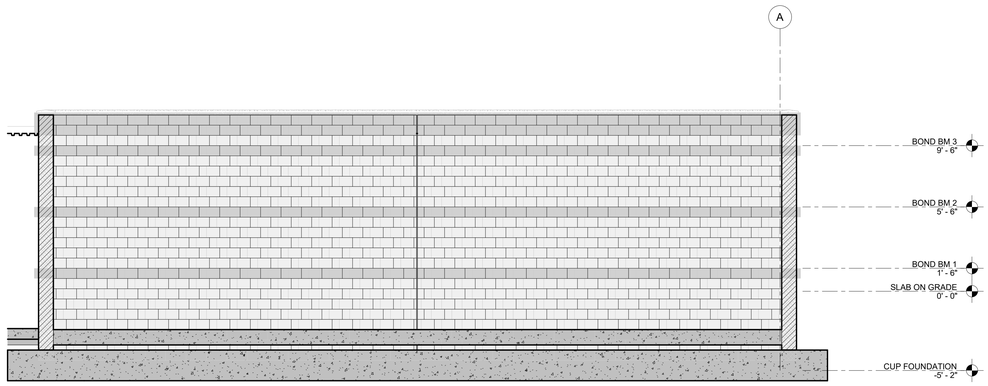
S-502

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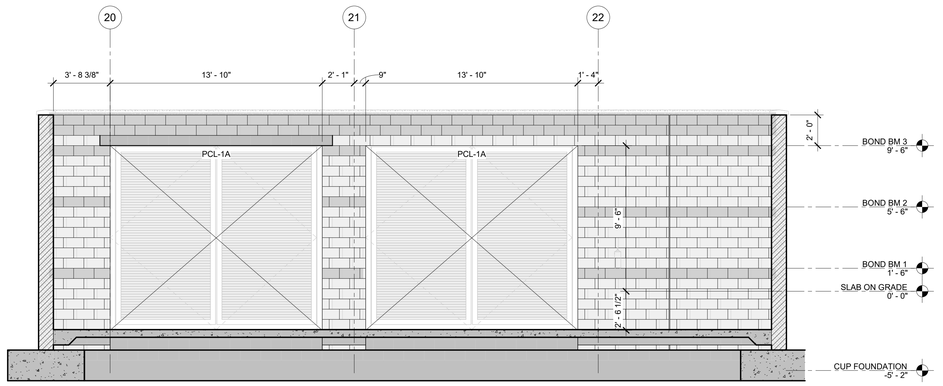
WALL ELEVATION NOTES:

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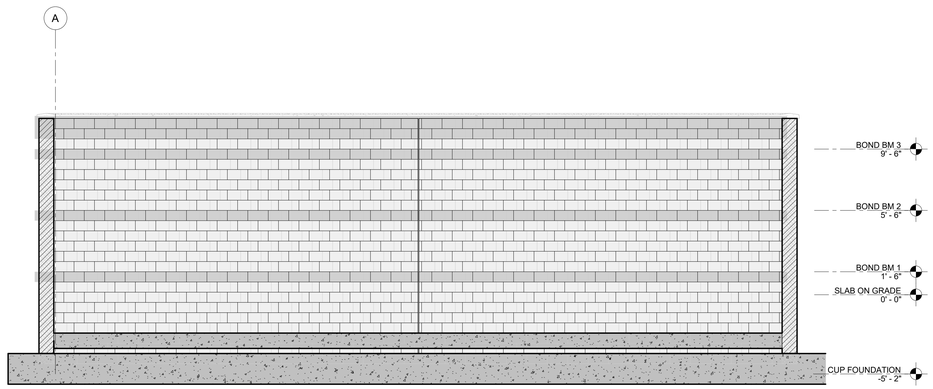




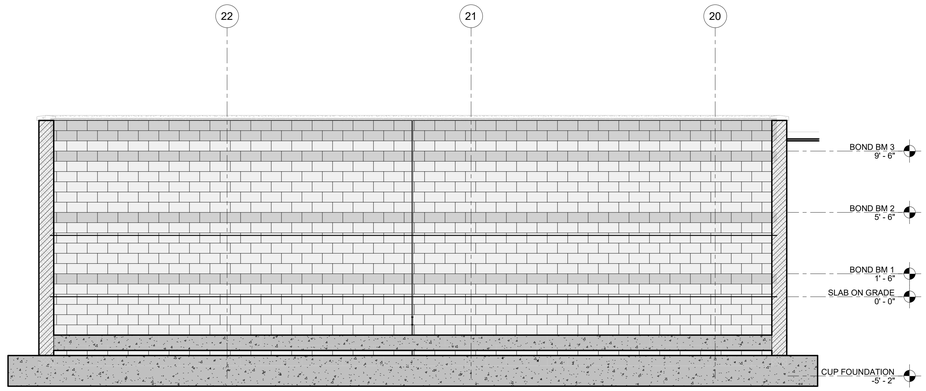
E7 / S-503 WALL ELEVATION 7
SCALE: 1/4" = 1'-0"



E8 / S-503 WALL ELEVATION 8
SCALE: 1/4" = 1'-0"



E9 / S-503 WALL ELEVATION 9
SCALE: 1/4" = 1'-0"



E10 / S-503 WALL ELEVATION 10
SCALE: 1/4" = 1'-0"

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BLD-25-0517072
9/3/2025

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City of Tampa
CONSTRUCTION SERVICES DIVISION
PLANS APPROVAL
BLD-25-0517072 9/3/2025
THIS SET OF PLANS MUST BE KEPT ON
THE JOB SITE
It is unlawful to make changes or
alterations without written approval
from the City of Tampa Construction
Services Division.
The Stamp must be signed and dated in ink
held to permit owner, agent, contractor
of any City or State Codes
REVIEWED FOR CODE COMPLIANCE

Architects Design Group
333 North Knowles Avenue
Winter Park, Florida 32789

HOWARD + ASSOCIATES
ARCHITECTS, P.A.
2630 Henderson Blvd., Ste. 200B
Tampa, FL 33609 • 813.872.8888

MASTER CONSULTING ENGINEERS, INC.
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5523 WEST CYPRESS ST., STE 200
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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:
PERMIT DOCUMENTS

ISSUE DATE:
9/9/2024

REVISIONS:

DRAWN BY: **DN/AN/VC**
CHECKED BY: **LB/NR/JM**

TPD HOWARD AVENUE ANNEX BUILDING

ELEVATIONS

TRUE PROJECT NORTH:

S-503

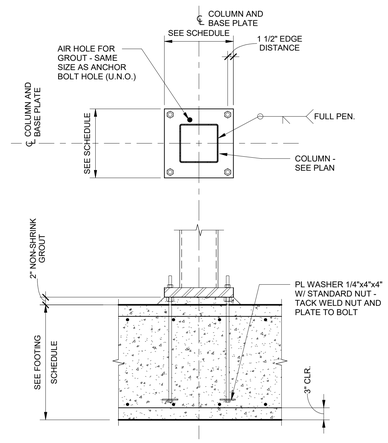
AREA C ROOF - U.M.D.						AREA C ROOF - U.M.D.
14' - 11"	HSS6X6X3/8	HSS6X6X3/8	HSS8X8X1/4	HSS6X6X3/8	HSS8X8X1/4	14' - 11"
FOUNDATION						FOUNDATION
-3' - 10"	S1	S2	S3	S4	S5	-3' - 10"
Column Locations	B(2' - 4")-13	B(2' - 4")-15(-3' - 4 1/2")	B(20' - 3 7/8")-15(-3' - 4 1/2")	B(2' - 4")-17(-0' - 10")	B(20' - 3 5/8")-17(8' - 8")	
BASE PLATE	BP1	BP1	BP2	BP1	BP2	

STEEL COLUMN SCHEDULE

SCALE: 1/8" = 1'-0"

BASE PLATE SCHEDULE

BASE PLATE	SIZE	ANCHOR BOLTS	REMARKS
BP1	3/4"x12"x12"	(4) - 3/4"ø F1554	
BP2	3/4"x14"x14"	(4) - 3/4"ø F1554	



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ADG PROJECT NO. **1087**

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TPD HOWARD AVENUE ANNEX BUILDING

SCHEDULE

TRUE PROJECT NORTH:

S-601

CITY OF TAMPA
APPROVED SITE REVIEW ONLY, NOT VALID WITHOUT BUILDING PLANS
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MECHANICAL ABBREVIATIONS

A	AIR
AAV	AUTOMATIC AIR VENT
AC	AIR CONDITIONING
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR, AIR DRYER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ATC	AUTOMATIC TEMPERATURE CONTROL
AV	AIR VENT
BDD	BACK DRAFT DAMPER
BOT	BOTTOM
BFP	BACKFLOW PREVENTER
BTU	BRITISH THERMAL UNIT
C	CELSIUS, DEGREE CELSIUS
CENT	CENTRIFUGAL
CFM	CUBIC FEET PER MINUTE
CHWS&R	CHILLED WATER SUPPLY & RETURN
CLG	CEILING
CF	CEILING FAN
CO	CLEAN OUT
COND	CONDENSATE
DB	DRY BULB, DOWN BLOW
DCW	DOMESTIC COLD WATER
DEG	DEGREE
DELIV	DELIVERY
DHW	DOMESTIC HOT WATER
DISC	DISCONNECT
DN	DOWN
EA	EXHAUST AIR, EACH
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEV	ELEVATION
EMS	ENERGY MANAGEMENT SYSTEM
ENT	ENTERING
ERG	EXISTING RETURN GRILLE
EWB	ENTERING WET BULB
F	FAHRENHEIT
FD	FIRE DAMPER, FLOOR DRAIN
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
F/SD	FIRE/SMOKE DAMPER
FT	FEET
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GLY	GLYCOL
GRV	GRAVITY RELIEF VENTILATOR
GWS	GLYCOL WATER SUPPLY
GWR	GLYCOL WATER RETURN
HWS&R	HEATING HOT WATER SUPPLY & RETURN
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER, HEAT PUMP
HR	HOUR
HVAC	HEATING VENTILATING AND AIR CONDITIONING
HZ	HERTZ.(CYCLES PER SECOND)
ID	INSIDE DIAMETER
IN	INCH
KEF	KITCHEN EXHAUST FAN
KW	KILOWATT
LDB	LEAVING DRY BULB
LWB	LEAVING WET BULB
LOR	LIMIT OF REMOVAL
MAX	MAXIMUM
MBC	MASTER BUILDING CONTROLLER
MBH	THOUSAND BTU PER HOUR
MD	MANUAL DAMPER
MIN	MINIMUM
N	NORTH
NA	NOT APPLICABLE
NO OR #	NUMBER, NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
OPER	OPERATING
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
REG	REGISTER
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RM	ROOM
SA	SUPPLY AIR
SEF	SMOKE EXHAUST FAN
SF	SUPPLY FAN
SF/D	SMOKE/FIRE DAMPER
T	THERMOSTAT
TEC	TERMINAL EQUIPMENT CONTROLLER
TEMP	TEMPERATURE
TYP	TYPICAL
V	VENT, VOLT
VD	VOLUME DAMPER
VERT	VERTICAL
WB	WET BULB
WPD	WATER PRESSURE DROP
1WB	ONE WAY BLOW
2WB	TWO WAY BLOW
3WB	THREE WAY BLOW

MECHANICAL LEGEND

- CHWS — -CHILLED WATER SUPPLY
- CHWR — -CHILLED WATER RETURN
- CD — -CONDENSATE DRAIN
- RL — -REFRIGERANT LIQUID
- RS — -REFRIGERANT SUCTION
- -GATE VALVE
- -BALL VALVE
- -CALIBRATE BALANCING VALVE
- -BUTTERFLY VALVE
- -GAS COOK
- -UNION
- -STRAINER
- -PSI REG.
- -CHECK VALVE
- -CONNECTION, BOTTOM
- -CONNECTION, TOP
- -ELBOW,TURNED DOWN
- -ELBOW, TURNED UP
- -REDUCER, CONCENTRIC
- -REDUCER, ECCENTRIC STRAIGHT CROWN
- -CAP

MECHANICAL DUCTWORK LEGEND

- POINT OF CONNECTION
- POINT OF DISCONNECTION
- H — HUMIDITY SENSOR
- T — THERMOSTAT
- S — SWITCH
- CO — CARBON DIOXIDE SENSOR
- SD SD — SMOKE DETECTOR
- F — FIRE STAT
- X — EXISTING FIRE DAMPER
- FIRE DAMPER
- FIRE DAMPER
- FIRE/SMOKE DAMPER
- MANUAL VOLUME DAMPER
- C — CARBON MONOXIDE SENSOR
- TAP WITH 45° ENTRY
- EUH — ELECTRIC UNIT HEATER
- EMS — ENERGY MANAGEMENT SYSTEM
- M — MOTOR OPERATED DAMPER
- U/C — 1" DOOR UNDERCUT

- NEW WORK
- EXISTING DUCT TO REMAIN
- EXISTING DUCT TO BE DEMOLISHED
- SUPPLY AIR DUCT - SECTION
- RETURN AIR DUCT - SECTION
- EXHAUST AIR DUCT - SECTION
- SUPPLY DUCT UP THRU ROOF OR FLOOR/CEILING ASSEMBLY
- RETURN DUCT UP THRU ROOF OR FLOOR/CEILING ASSEMBLY
- ELBOW TURNED UP
- ELBOW TURNED DOWN
- UP — OFFSET IN DUCTWORK - UP
- DN — OFFSET IN DUCTWORK - DOWN
- TEE WITH DOUBLE THICKNESS
- MITERED ELBOW - WHERE USED PROVIDE TURNING VANES
- RADIUS ELBOW
- CEILING DIFFUSER - BOTTOM DUCT CONNECTION
- STANDARD BRANCH TAKEOFF
- MANUAL DAMPER
- 4-WAY DISCHARGE SQUARE SUPPLY AIR DIFFUSER
- RETURN AIR REGISTER/GRILLE
- EXHAUST AIR REGISTER/GRILLE
- SIDEWALL REGISTER OR GRILLE

- FLEXIBLE CONNECTION
- CEILING DIFFUSER - SIDE DUCT CONNECTION
- TYPE A-350 AIR QUANTITY — AIR DISTRIBUTION DESIGNATION
- FLEXIBLE ROUND DUCT
- FD — FIRE DAMPER AND ACCESS DOOR.
- 24X12 — RECTANGULAR DUCT, FIRST FIGURE IS SIDE SHOWN
- FSD — COMBINATION FIRE AND SMOKE DAMPER, WITH ACCESS DOOR.
- BDD — BACKDRAFT DAMPER
- 12"ø — ROUND DUCT, DIAMETER SHOWN
- M — MOTORIZED DAMPER
- BD — BAROMETRIC DAMPER
- SPIN-IN COLLAR WITH VOLUME DAMPER

DRAWING INDEX

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M-202	MECHANICAL FLOOR PLAN AREA B
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MECHANICAL GENERAL NOTES:

1 THE CONTRACTOR SHALL DEMONSTRATE EACH HVAC SYSTEMS PERFORMANCE IN THE PRESENCE OF THE ARCHITECT/ENGINEER AND THE OWNER'S PROJECT MANAGER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ANY ADDITIONAL SYSTEM TEST REQUIRED IF IN THE OPINION OF THE ARCHITECT/ENGINEER AND THE OWNERS PROJECT MANAGER THE SYSTEMS DO NOT PERFORM AS SPECIFIED.

2 IF, THROUGH ERRORS OR OMISSIONS, THE INTENT OF ARCHITECT/ ENGINEER WITH REGARD TO ANY DETAIL IS NOT CLEAR, OR IS CAPABLE OF MORE THAN ONE INTERPRETATION, SUCH MATTERS WILL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN WRITING BEFORE THE SUBMISSION OF BIDS, AND THE ARCHITECT/ ENGINEER SHALL MAKE CORRECTION OR EXPLANATION IN WRITING. OTHERWISE, NO EXTRA CHARGE WILL BE ALLOWED FOR THE WORK OR MATERIAL WHICH THE ARCHITECT/ENGINEER WILL REQUIRE, PROVIDED THAT IT COMES WITHIN A REASONABLE INTERPRETATION OF THE DRAWINGS AND SPECIFICATIONS.

3 THE PLANS AND SPECIFICATIONS ARE INTENDED AS A GENERAL DESCRIPTION OF THE WORK TO BE PERFORMED. ALL ITEMS NOT SPECIFICALLY MENTIONED OR SHOWN, BUT NECESSARY FOR THE COMPLETION OF THE INSTALLATION, SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. THIS CONTRACTOR SHALL THOROUGHLY ACQUAINT THEMSELVES WITH THE MECHANICAL, ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL PLANS BEFORE SUBMITTING THEIR FINAL BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO THE CONTRACTOR'S FAILURE TO FAMILIARIZE THEMSELVES WITH THE PLANS.

4 UNFORESEEN CONDITIONS MAY EXIST AND WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COORDINATION WITH OTHER TRADES IN ROUTING AND/OR BURIAL DEPTHS AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ARCHITECT/ENGINEER MAYBE NECESSARY. IT IS INTENDED THAT SUCH DEVIATIONS SHALL BE CONSIDERED AS PART OF THIS CONTRACT. SUCH DEVIATIONS MAY NOT BE CONSIDERED AS PART OF THIS CONTRACT WHEN PROPERLY DOCUMENTED IN WRITING. THE PLANS ARE NOT COMPLETELY TO SCALE. CONTRACTOR IS TO FIELD VERIFY DIMENSIONS OF ALL SITE UTILITIES ECT PRIOR TO BID AND INCLUDE ANY DEVIATIONS IN THE CONTRACT.

5 ALL PIPING AND DUCT IS TO BE CONCEALED ABOVE CEILING OR IN NEW WALLS UNLESS SPECIFICALLY NOTED AS EXPOSED OR SURFACE MOUNTED. CONTRACTOR TO COORDINATE WITH THE GENERAL CONTRACTOR TO PAINT ALL EXPOSED PIPING TO MATCH CORRESPONDING EXPOSED AREAS.

6 ALL WORK SHALL BE IN ACCORDANCE WITH THE 2023 FLORIDA BUILDING CODE AND ALL LOCAL CODES.

7 THE SIZE AND LOCATION OF EQUIPMENT INSTALLED UNDER DIVISION 23 MECHANICAL SHALL BE COORDINATED WITH OTHER TRADES. CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.

8 PROVIDE A VOLUME DAMPER AT EVERY BRANCH DUCT AND AS SHOWN ON THE DOCUMENTS FOR ALL DUCTWORK SYSTEMS. ALL DAMPERS MAY NOT BE SHOWN ON THE DOCUMENTS FOR CLARITY.

9 VERIFY EXISTING CONDITIONS IN FIELD AND COORDINATE WITH ALL TRADES INCLUDING, BUT NOT LIMITED TO, ARCHITECTURAL, STRUCTURAL, LIGHTING, POWER, SYSTEMS, PLUMBING, FIRE PROTECTION AND OTHERS FOR EXISTING AND NEW WORK.

10 INTERRUPTION OF EXISTING SERVICES SHALL BE MINIMAL AND SHALL BE FULLY COORDINATED WITH THE OWNER AND ALL TRADES IN ADVANCE TO SCHEDULE ALL INTERRUPTIONS DURING NON-CRITICAL TIMES.

11 AHU'S, FAN COIL UNITS, CHILLERS, PUMPS, EXHAUST FANS, AND VAV BOXES SHALL REMAIN PROPERTY OF THE OWNER. ALL SHEET METAL AND PIPING WILL BE DISPOSED BY THE GENERAL CONTRACTOR.

12 DISCONNECT SWITCHES REQUIRED FOR THE MECHANICAL EQUIPMENT SHALL BE PROVIDED BY DIVISION 26 ELECTRICAL EXCEPT WHEN INDICATED ON SCHEDULE.

13 ALL VOLUME DAMPERS INSTALLED ABOVE GYPSUM BOARD CEILING SHALL HAVE A REMOTELY OPERATED DAMPER. THE DAMPER LOCATION IT TO BE ACCURATELY LOCATED AND LABELED ON THE AS-BUILT DRAWINGS AT THE COMPLETION OF THE PROJECT.

14 PROVIDE 6" HIGH CONCRETE PADS UNDER ALL FLOOR MOUNTED EQUIPMENT, WITH CHAMFERED EDGES AND 6" EXTENSION BEYOND EQUIPMENT UNLESS NOTED OTHERWISE.

15 ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION. SUPPORT ALL OBJECTS FROM STRUCTURE WITHOUT PENETRATING THE CEILING.

16 SLEEVE AND SEAL ALL PIPING PENETRATIONS THROUGH BUILDING PARTITIONS. PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS IN CHILLED WATER PIPING.

17 REFER TO TYPICAL DETAILS FOR PIPING AND EQUIPMENT INSTALLATION.

18 CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE COORDINATED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

19 ALL CONDENSATE DRAIN LINES SHALL BE INSULATED AND INSTALLED WITH A 'P' TRAP.REFER TO GENERAL DETAILS, AT THE UNIT WITH A MINIMUM DEPTH OF 2" OR PER MANUFACTURER'S INSTRUCTIONS, WHICHEVER IS GREATER.

20 UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND VALVE DRAINS SHALL BE INDEPENDENTLY PIPED FULL SIZE TO THE NEAREST PLUMBING DRAIN OR DRY WELL.

21 ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH NFPA 90A AND 90B.

22 DUCT SIZES SHOWN ARE MINIMUM INSIDE DIMENSIONS.

23 BEFORE FABRICATION, VERIFY AND COORDINATE ALL DIMENSIONS IN FIELD. DUCT SIZES AND ALL OPENINGS THROUGH BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT FURNISHED. CONTROLS CONTRACTOR SHALL COORDINATE WITH APPROVED DUCT SHOP DRAWINGS FOR THE APPROVED DUCT SIZES TO SIZE THE AFMS APPROPRIATELY.

24 ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS AND PIPING (INCLUDING DIVIDING DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST.

25 ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, ELBOWS, FITTINGS, ETC., TO ALLOW SMOOTH FLOWS. ALL SPLIT DUCT FITTINGS SHALL TRANSITION TO FULL SIZE OF THE SUM OF BOTH BRANCHES UPSTREAM OF SPLIT.

26 ACCESS PANELS IN DUCTWORK AND CEILINGS SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING AND MAINTENANCE OF ALL MECHANICAL EQUIPMENT.

27 EXHAUST DUCTWORK SHALL BE UN-INSULATED GALVANIZED STEEL.

28 MAINTAIN CLEARANCE OF A MINIMUM OF 6" BETWEEN DUCTWORK, PIPING, EQUIPMENT, ETC., AND ALL FIRE RATED AND FIRE/SMOKE RATED PARTITIONS TO ALLOW FOR INSPECTIONS OF RATED WALLS.

29 PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTS CONNECTING TO EACH FAN, AIR HANDLING UNIT AND FAN COIL UNIT.

30 DIFFUSER NECKS SHALL MATCH SIZES OF FLEX DUCTS TO BE CONNECTED.

31 FLEXIBLE DUCTWORK SHALL BE FULLY EXTENDED NOT TO EXCEED 6'-0" IN LENGTH.

32 COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES.

33 COORDINATE WITH ARCHITECT BEFORE PURCHASING GRILLES, REGISTERS, DIFFUSERS, LOUVERS AND OTHER AIR DISTRIBUTION DEVICES TO VERIFY FINISH.

34 DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS SHALL BE PAINTED FLAT BLACK.

35 ALL OPERABLE THERMOSTAT PARTS SHALL BE MOUNTED 48" ABOVE FINISHED FLOOR.

36 COORDINATE THERMOSTAT AND HUMDISTAT LOCATIONS WITH FURNITURE/EQUIPMENT LAYOUTS, WINDOWS AND DOOR SWING AREAS.

37 ALL CONTROL WIRING AND HARDWARE TO COMPLETE THE HVAC CONTROL SYSTEM SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 23 MECHANICAL OF THESE CONTRACT DOCUMENTS UNLESS INDICATED OTHERWISE ON DRAWINGS.

38 WATER PRESSURE DROPS THROUGH COIL CONTROL VALVES SHALL NOT EXCEED 5 PSI.

39 ALL HVAC EQUIPMENT LOCATIONS AND WEIGHTS SHALL BE COORDINATED AND APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR AND OWNER PRIOR TO PURCHASE AND INSTALLATION.

40 PROVIDE ALL MANUFACTURER INSTALLATION AND MAINTENANCE MANUALS FOR EQUIPMENT INSTALLED FOR ENGINEER REVIEW BEFORE RELEASE TO THE OWNER.

41 ALL SUPPLY AND RETURN DUCTWORK SHALL BE GALVANIZED STEEL. DUCTWORK SHALL BE SUPPORTED WITH MINIMUM 1" SHEET METAL STRAPS AT 5'-0" ON CENTERS.

42 INSTALLATION OF SMOKE DETECTORS IN SUPPLY DUCT SHALL BE BY THE MECHANICAL CONTRACTOR AND PROVIDED BY ELECTRICAL CONTRACTOR.

43 PROVIDE FIRE DAMPERS AT EACH FIRE RATED WALL, FLOOR, AND CEILING PENETRATION OF ALL AIR SUPPLY, RETURN, EXHAUST AND VENTILATION DUCTS. IF NOT SHOWN ON THE DOCUMENTS THIS MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID.

44 CONTRACTOR SHALL FIELD VERIFY ALL EXISTING MATERIALS, EQUIPMENT, APPLIANCES AND DEVICES THAT ARE TO BE REUSED SHALL BE RECONDITIONED, TESTED AND PLACED IN GOOD AND PROPER WORKING CONDITION AND APPROVED. ANY DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID.

45 AIR FILTERING SHALL BE ACCOMPLISHED USING 2" PLEATED 30% EFFICIENT (MIN.) FILTERS OR EQUAL IN AIR HANDLING EQUIPMENT. NO ELECTROSTATIC OR WASHABLE FILTERS ARE ALLOWED. INSTALL PRIOR TO UNIT START UP, REPLACE A MINIMUM OF TWICE PER MONTH DURING THE CONSTRUCTION PERIOD, REPLACE PRIOR TO TEST AND BALANCE, AND REPLACE MONTHLY UNTIL FINAL COMPLETION.

46 AIR CONDITIONING UNITS, CONDUIT, AND PIPING SHALL NOT BE INSTALLED ON ROOFS OR WALKWAYS.

47 PROVIDE A REMOVABLE 3/4" X 3/4" MINIMUM MESH SCREEN AT ALL INTAKE LOUVERS, NO INSECT SCREENS. PROVIDE NEW BIRD SCREENS AND BACK DRAFT DAMPERS FOR ALL OUTSIDE AIR LOUVERS. ALL INTAKE SCREENS SHALL BE REMOVABLE FOR CLEANING AND REPLACEMENT WHEN NECESSARY.

48 PROVIDE AIR AND WATER FLOW DIAGRAMS INSTALLED IN WATERPROOF, LAMINATED FRAMES ON THE WALL IN EACH MECHANICAL ROOM. AIR FLOW DIAGRAMS SHALL SHOW LOCATIONS OF DAMPERS, SENSORS, AND EXHAUST FANS ASSOCIATED WITH THE AIR HANDLING UNIT. WATER FLOW DIAGRAMS SHALL SHOW SHUT OFF VALVES AND CONTROL VALVE LOCATIONS. ALL DIAGRAMS SHOULD BE IN PLAIN VIEW AND EASY TO ACCESS AND READ.

49 PROVIDE HINGED DUCT INSPECTION PANEL IN THE DISCHARGE DUCT WITHIN 15 FT. OF EACH AIR HANDLING UNIT DISCHARGE. SIZE OF THE PANEL SHALL BE THE LARGEST POSSIBLE FOR SIZE OF THE DUCT. PREFERABLE LOCATION OF THE INSPECTION PANEL IS IN THE MECHANICAL ROOM.

50 PROVIDE MANUFACTURER'S RECOMMENDED SERVICE AND MAINTENANCE CLEARANCES FOR ALL AIR HANDLING UNITS, ALL FAN COIL UNITS SHALL BE INSTALLED IN MECHANICAL ROOMS OF SUFFICIENT SIZE. AIR HANDLING UNITS AND FAN COIL UNITS INSTALLED ABOVE CEILINGS ARE NOT ACCEPTABLE. AS A MINIMUM, SUFFICIENT SIZE SHALL BE CONSIDERED AS 3 FT OF CLEARANCE TO ANY SIDE REQUIRING ACCESS AND ALLOW COMPLETE REMOVAL OF THE AHU FAN ASSEMBLY, MOTOR, AND COIL (TYPICALLY, THE WIDTH OF THE AHU CASING ON THE SHAFT PULL SIDE).

51 ALL AIR HANDLING UNITS SHALL BE FREE OF ANY OBSTRUCTION FOR REMOVAL OF PANELS AND ROUTINE MAINTENANCE. DO NOT ATTACH ANY CONDUIT, JUNCTION BOXES, SENSORS, OR ANYTHING ELSE ON THE ACCESS PANELS OF THE AIR HANDLING UNITS.

52 ALL EQUIPMENT SHALL BE FREE OF ANY DAMAGE AT THE TIME OF ACCEPTANCE. ALL DENTS, SCRATCHES, AND ANY OTHER DAMAGE SHALL BE REPAIRED PRIOR TO THE INSTALLATION OF THE EQUIPMENT.

53 PROVIDE INSULATION FOR ALL CONTROL VALVES AND CONDENSATE DRAIN LINES.

54 ALL DUCTWORK ACCESSORIES THAT PENETRATE THE SHEET METAL DUCT SHALL BE PROPERLY FASTENED, SEALED, AND INSULATED.

55 ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL WITH EXTERNALLY WRAPPED INSULATION AND INSTALLED PER SMACNA GUIDELINES. DUCTS/MATERIALS SHALL BE PROPERLY STORED, PROTECTED FROM MOISTURE, DUST AND DEBRIS, AND INTERIORS CLEANED PRIOR TO INSTALLATION.

56 PROVIDE MANUAL DAMPERS FOR ALL LOW PRESSURE SUPPLY, RETURN, AND EXHAUST AIR BRANCH AND/OR RUN-OUT DUCTS FOR AIR VOLUME CONTROL AND ADJUSTMENT.

57 AIR HANDLING AND DUCTWORK SYSTEMS SHALL BE PROTECTED FROM CONSTRUCTION DUST AND WEATHER DURING THE CONSTRUCTION PERIOD. AFTER CONSTRUCTION, SYSTEMS SHALL BE OBSERVED BY THE ENGINEER AND CLEANED BY CONTRACTOR IF NECESSARY.

58 CONTROL DEVICE MOTORS (DAMPERS, ETC.) SHALL BE 24VAC TYPE WITH ALL ELECTRICAL POWER REQUIREMENTS CLEARLY NOTED ON THE CONSTRUCTION DRAWINGS.

59 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR COORDINATING THEIR WORK WITH THE TEST AND BALANCE FIRM. PRIOR TO TESTING AND BALANCING, THE CONTRACTOR SHALL START-UP, PRE-BALANCE, AND REPLACE ALL AIR FILTERS FOR EVERY AHU BEING TESTED. ALL DISCREPANCIES, DRIVE CHANGES, ETC. REPORTED BY ENGINEER OR TEST AND BALANCE FIRM SHALL BE CORRECTED BY CONTRACTOR WITHIN FIVE CALENDAR DAYS AT NO ADDITIONAL COST. TESTING AND BALANCING SHALL BE COMPLETED PRIOR TO SUBSTANTIAL COMPLETION. TESTING AND BALANCING SHALL BE INCLUDED IN CONTRACTOR'S SCOPE OF WORK.

60 OPERATION AND MAINTENANCE MANUALS SHALL INCLUDE AS A SEPARATE SUBMITTAL ITEM A LIST OF ALL EQUIPMENT INSTALLED, AND PREVENTATIVE MAINTENANCE REQUIREMENTS ALONG WITH TIME SCHEDULE(S) FOR EACH ITEM. THE SEQUENCE OF OPERATION SHALL ALSO INCLUDE A DEFINITIVE SEQUENCE OF OPERATION OF THE MECHANICAL SYSTEM AND COMPONENTS AS THEY FUNCTION INTEGRALLY AND INDEPENDENTLY WITH THE SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TRANSFERRING CONTROL OF THE SYSTEM TO THE ENERGY CONTROL DEPARTMENT PRIOR TO FINAL CLOSEOUT OF THE PROJECT. THIS IS REQUIRED PRIOR TO ISSUANCE OF ANY FORM OF OCCUPANCY CERTIFICATE.

61 USE CONTROL VALVES FOR THE COOLING COILS WITH A MINIMUM CLOSE OFF PRESSURE OF 30 PSI OR 1.5 TIMES THE PUMP DEAD HEAD PRESSURE, WHICHEVER IS GREATER.

62 PROVIDE THERMOMETERS AT ALL OF THE APPROPRIATE LOCATIONS ON THE CHILLED WATER LINES. THERMOMETER WELL SHALL BE IN THE ACTUAL STREAM AND NOT BRANCHED OR TEED FROM THE WATER STREAM. THERMOMETER STEM SHALL BE OF THE APPROPRIATE SIZE TO MATCH THE THERMOMETER WELL. SPECIFY THERMOMETERS OF THE APPROPRIATE GRADUATION (0 TO 100 DEGREES F FOR CHILLED WATER AND 30-240 DEGREES F FOR HOT WATER) WITH BLUE DYE. TEST PORTS (PETE'S PLUGS) SHALL ALSO BE PROVIDED AT APPROPRIATE LOCATIONS ON PIPING FOR INSERTING THERMOMETERS TO VERIFY THE ACCURACY OF WELL THERMOMETERS.

63 CONTRACTOR SHALL FLUSH THE ENTIRE CHILLED WATER SYSTEM AND BYPASS ALL CHILLED WATER COILS, CHILLED WATER CONTROL VALVES, AND CHILLER COMPONENTS. OWNER REPRESENTATIVE AND A QUALITY ASSURANCE TECHNICIAN OWNER REPRESENTATIVE SHALL BE PRESENT DURING THE FLUSHING AND WATER TREATMENT PROCEDURE AND PRIOR TO INITIAL START UP OF THE CHILLED WATER EQUIPMENT. A COPY OF ALL WATER SAMPLING RESULTS SHALL BE INCLUDED IN THE CLOSEOUT DOCUMENTS.

64 PIPE FLUSHING VELOCITIES TO REMOVE SAND AND DEBRIS PRIOR TO SYSTEM START-UP SHALL BE 10 FPS FOR MAINS AND 15 FPS FOR BRANCH PIPING.

65 THERE SHALL NOT BE ANY PIPING, VALVES, STRAINERS OF ANY KIND, AND THEIR ACCESSORIES IN FRONT OF ACCESS PANELS FOR THE AIR HANDLING UNITS. THERE SHALL BE AMPLE ROOM FOR THE FULL SWING OF THE AIR HANDLING UNITS HINGED DOORS.

66 CHILLED WATER PIPING SYSTEMS SHALL BE HAVE ACCESSIBLE ISOLATION VALVES ENTERING EACH BUILDING.

67 PROVIDE A BALANCING VALVE, STRAINER, AT EACH COIL. VALVE INSTALLATION KITS COMBINING STRAINERS AND VALVES TOGETHER ARE NOT ACCEPTABLE.

68 THERE SHALL BE ENOUGH ROOM AROUND THE AIR HANDLERS FOR EASE OF SERVICE AND ACCESSIBILITY. FOLLOW MANUFACTURER'S RECOMMENDATIONS ON EQUIPMENT ACCESS AND MAINTENANCE.

69 PROVIDE TEST PORTS UPSTREAM AND DOWNSTREAM OF ALL STRAINERS ON WATER LINES.

70 ALL PIPING SHALL BE PROPERLY SUPPORTED TO HANDLE THE WEIGHT OF THE PIPING, INSULATION, WATER WEIGHT, AND ATTACHED ACCESSORIES. SUPPORTS SHALL BE INSTALLED IN A MANNER THAT WOULD NOT REDUCE THE SERVICEABILITY OF THE AIR HANDLING EQUIPMENT.

71 ALL CHILLED VALVE ACTUATORS SHALL BE MOUNTED IN THE VERTICAL POSITION. ELECTRIC ACTUATORS ARE PREFERRED. PNEUMATIC/HYDRAULIC ACTUATORS ARE NOT ACCEPTABLE DUE TO HIGH MAINTENANCE COSTS.

72 CHILLER START-UP LOGS SHALL BE TURNED OVER TO THE OWNER WITHIN 24 HOURS OF START-UP.

73 CHILLER SYSTEMS THAT AUTOMATICALLY SHUT DOWN BASED UPON POWER FLUCTUATIONS SHALL HAVE AUTOMATIC RESTART FEATURES. AN ALARM SHALL BE ISSUED THROUGH THE DDC SYSTEM SHOULD A CHILLER SYSTEM BE UNABLE TO MAINTAIN ITS MAXIMUM DESIGN LEAVING WATER TEMPERATURE SET POINT DURING OCCUPIED COOLING PERIODS.

74 THE HVAC SYSTEMS SHOULD BE TESTED AND BALANCED UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER OR BY AN AABC OR NEBB CERTIFIED TEST AND BALANCE CONTRACTOR EMPLOYED BY THE CONSTRUCTION MANAGER. TEST AND BALANCE SHALL BE COMPLETED PRIOR TO SUBSTANTIAL COMPLETION. THE TEST AND BALANCE SHALL BE INCLUDED IN CONTRACTOR'S SCOPE OF WORK.

75 DOUBLE WALL RETURN AIR PLENUMS ARE REQUIRED AND ARE THE RESPONSIBILITY OF THE EQUIPMENT PROVIDER. FIELD FABRICATED PLENUMS WILL NOT BE ALLOWED.

76 PROVIDE REMOVABLE, WASHABLE WIRE MESH FILTERS ON ALL OUTSIDE AIR DUCTWORK PRIOR TO AIR FLOW MONITORING STATION. COORDINATE WITH AIRFLOW MONITORING STATION MANUFACTURER FOR GUIDELINES ON MINIMUM PLACEMENT FOR AIR FILTER AND FILTER MEDIA BANK APPLICATIONS.

77 CONTRACTOR SHALL ASSIST THE OWNERS COMMISSIONING AGENT TO COMMISION THE HVAC SYSTEM.

78 AIRFLOW MONITORING SENSORS MUST BE INSTALLED TO ALLOW FOR EASE OF REMOVAL FOR THE OWNERS MAINTENANCE STAFF. AIRFLOW MONITORING STATION DISPLAY SHALL BE INSTALLED AT A MAXIMUM HEIGHT OF 60" TO CLEARLY VIEW DISPLAY MONITOR. PROVIDE EQUIPMENT TAG FOR ALL AFMS EQUIPMENT. PROVIDE ACCESS PANEL FOR MAINTENANCE FOR EASE OF ACCESS TO SENSORS.

79 THE OWNER RESERVES THE RIGHT TO PROVIDE VERIFICATION OF THE TEST AND BALANCE REPORTS AND SUCH VERIFICATION SHALL BE BY A SECOND INDEPENDENT BALANCER. REPORTS FOUND TO BE INACCURATE WILL BE DISALLOWED AND THE BALANCER WILL BE REQUIRED TO REPEAT OPERATIONS UNDER THE SUPERVISION OF THE SECOND INDEPENDENT BALANCER UNTIL ACCURATE REPORTS ARE COMPLETED AND AGREED UPON. THE COST OF INITIAL CHECKING WILL BE BY THE CONTRACTOR, UNLESS THE INITIAL REPORT IS FOUND TO BE INACCURATE AND/OR INCOMPLETE. IN SUCH CASE, THE COSTS OF THE VERIFICATION TEST AND BALANCE AND ALL SUBSEQUENT COSTS OF SUPERVISION IN ORDER TO SECURE ACCEPTABLE REPORTS WILL BE BY THE BALANCER.

81 MANUFACTURER OF VFD'S, AHU'S, PUMPS, CHILLER, VAV'S, FCU'S, DX SYSTEMS, HVAC CONTROLS, HVAC WATER TREATMENT, AND EXHAUST FANS SHALL PROVIDE A MINIMUM OF 40 HOURS OF TRAINING FOR OWNERS OPERATORS. TOPICS SHALL BE DETERMINED BY THE OWNERS MAINTENANCE DEPARTMENT. TRAINING SHALL INCLUDE BUT NOT LIMITED TO RECOMMENDED MAINTENANCE AND OPERATING PROCEDURES, SEQUENCE OF OPERATION OF MECHANICAL EQUIPMENT CONTROLS, READING AND USING CONTROL DIAGRAMS, SETPOINT, PERFORMANCE TESTING AND PREVENTATIVE MAINTENANCE.

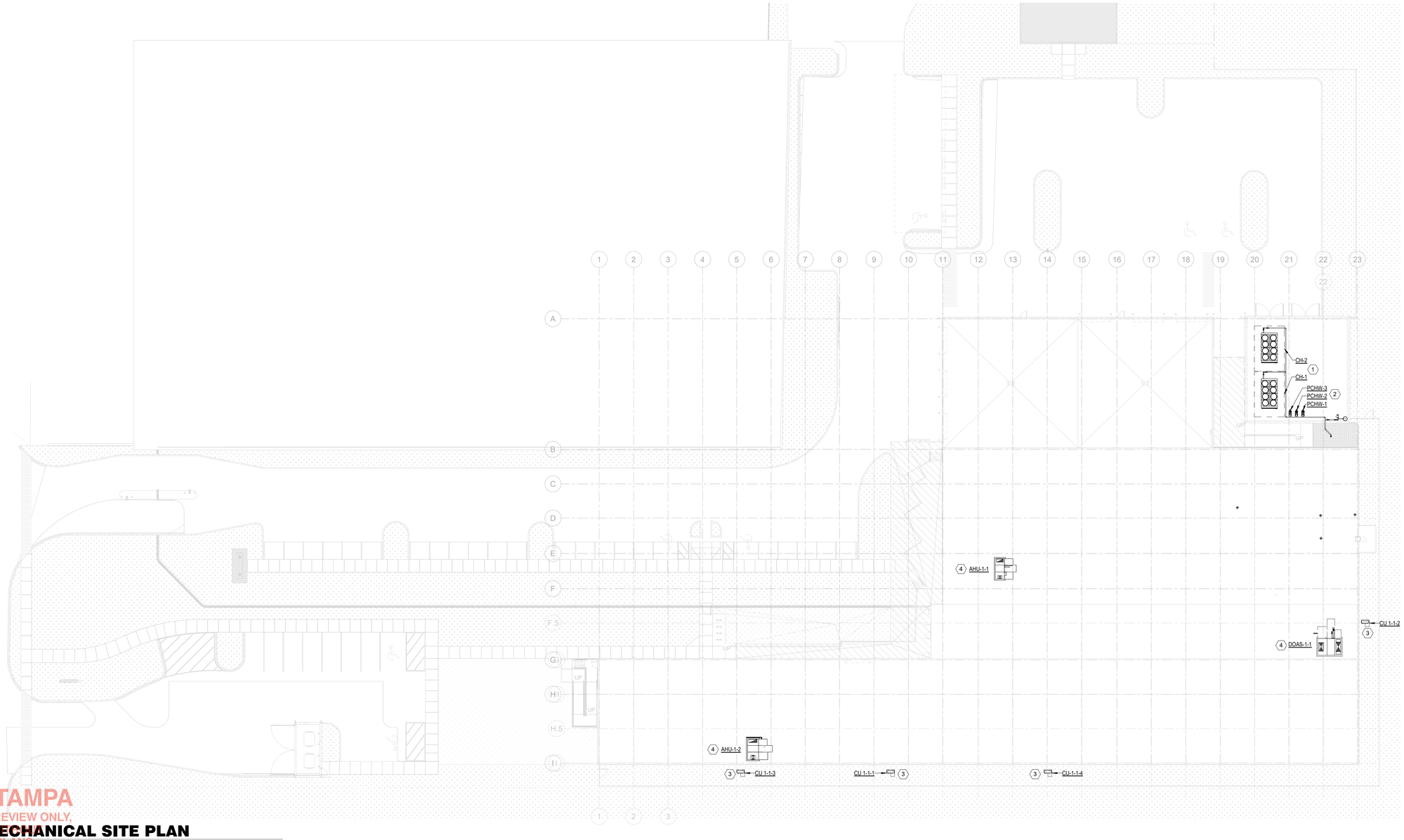
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GENERAL NOTES:

a. REFER TO SHEET M001 FOR MECHANICAL GENERAL NOTES AND SYMBOL LEGEND.
b. REFER TO PROJECT SPECIFICATIONS FOR EQUIPMENT AND INSTALLATION REQUIREMENTS. IF THERE IS ANY DISCREPANCY BETWEEN SPECIFICATIONS AND DRAWINGS, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
c. DRAWINGS ARE DIAGRAMATIC AND REPRESENT THE GENERAL LAYOUT OF MECHANICAL COMPONENTS. FOR EXACT BUILDING DIMENSIONS, REFER TO ARCHITECTURAL DRAWINGS.
d. POSITION EQUIPMENT IN SUCH A WAY AS TO MAINTAIN MANUFACTURER SERVICE CLEARANCES AT ALL TIMES.
e. COORDINATE LOCATION OF DISCONNECTS WITH ELECTRICAL CONTRACTOR. DO NOT BLOCK SERVICE CLEARANCES TO EQUIPMENT.
f. ALL DUCTWORK MUST REMAIN SEALED DURING CONTRCTION PHASE.
g. ALL PIPING MUST REMAIN SELAED DURING CONSTRUCTION PHASE.
h. FLEX DUCT SHALL NOT EXCEED 6'-0" IN OVERALL LENGTH.

PLAN KEY NOTES: (#)

1. PROVIDE TWO NEW CHILLERS, EQUIPMENT PAD CONTROLS , HYDRONIC EQUIPMENT AND ALL REQUIRED APPURTENANCES. SEE SCHEDULE FOR DETAILS.
2. PROVIDE THREE NEW PUMPS, EQUIPMENT PADS, CONTROLS, HYDRONIC EQUIPMENT AND ALL REQUIRED APPURTENANCES. SEE SCHEDULE FOR DETAILS.
3. PROVIDE NEW CONDENSING UNITS ON CONCRETE PAD. ROUTE REFRIGERANT PIPING ACCORDINGLY TO EACH INDOOR UNIT. REFER TO MANUFACTURER INSTRUCTIONS FOR PAD INSTALLATION.
4. PROVIDE AHU, EQUIPMENT PAD, CONTROLS AND ALL REQUIRED APPURTENANCES.



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1 M-100 1" = 20'-0"

MECHANICAL SITE PLAN

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ADG PROJECT NO. 1087
C.o.T. NO. 24-C-00032

PROJECT STATUS:
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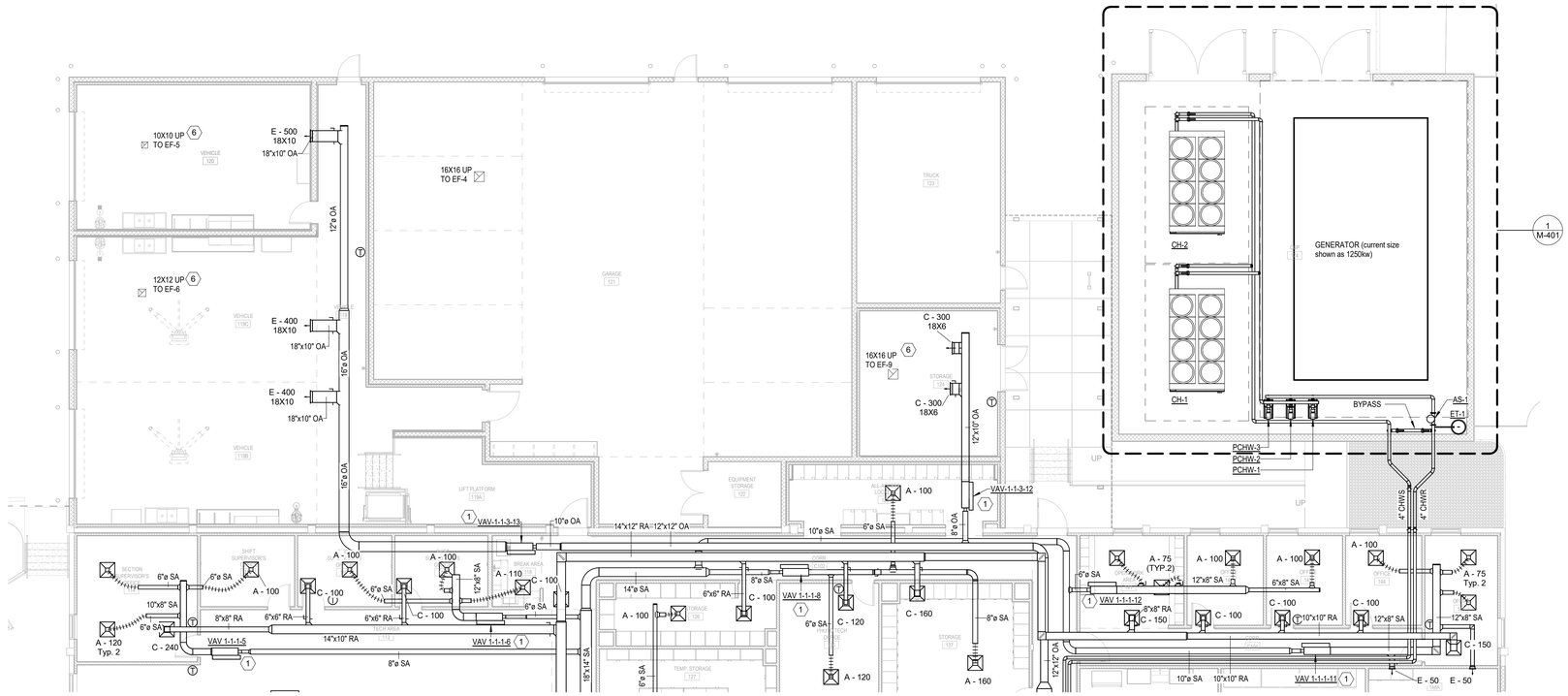
TPD HOWARD AVENUE ANNEX BUILDING

MECHANICAL SITE PLAN

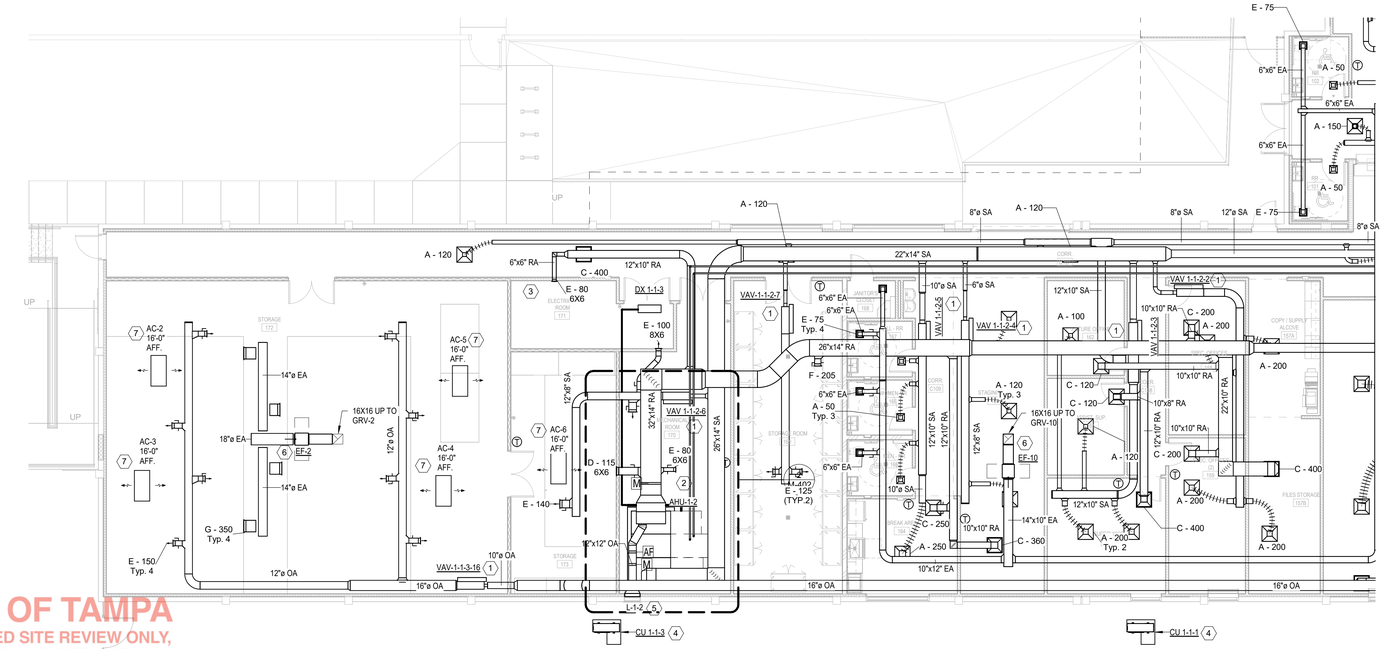
TRUE PROJECT NORTH:

M-100

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Approval of any City or State Codes
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2 MECHANICAL PLAN - AREA C
M-201 1/8" = 1'-0"



MECHANICAL PLAN - AREA A
M-201 1/8" = 1'-0"

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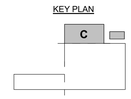
GENERAL NOTES:

a. REFER TO SHEET M001 FOR MECHANICAL GENERAL NOTES AND SYMBOL LEGEND.
b. REFER TO PROJECT SPECIFICATIONS FOR EQUIPMENT AND INSTALLATION REQUIREMENTS. IF THERE IS ANY DISCREPANCY BETWEEN SPECIFICATIONS AND DRAWINGS, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
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e. COORDINATE LOCATION OF DISCONNECTS WITH ELECTRICAL CONTRACTOR. DO NOT BLOCK SERVICE CLEARANCES TO EQUIPMENT.
f. ALL DUCTWORK MUST REMAIN SEALED DURING CONTRCTION PHASE.
g. ALL PIPING MUST REMAIN SELAED DURING CONSTRUCTION PHASE.
h. FLEX DUCT SHALL NOT EXCEED 6'-0" IN OVERALL LENGTH.
i. ALL DIFFUSERS/GRILLES LOCATED IN HARD CEILINGS SHALL BE PROVIDED WITH A REMOTE BALANCE DAMPER.

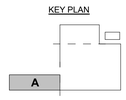
PLAN KEY NOTES: (#)

1. PROVIDE NEW VAV BOX, THERMOSTAT AND ALL REQUIRED COMPONENTS. PROVIDE NEW DUCTWORK AND CONNECT VAV BOX TO NEW DUCTWORK.
2. PROVIDE NEW AHU AND EQUIPMENT PAD. SEE SCHEDULE FOR DETAILS.
3. PROVIDE NEW DX MINI-SPLIT AIR HANDLING UNIT MOUTED ABOVE DOOR. ROUTE REFRIGERANT PIPING TO ASSOCIATED CONDENSING UNIT AS INDICATED. ROUTE CONDENSATE PIPING TO NEAREST RECEPTOR.
4. PROVIDE NEW DX MINI-SPLIT CONDENSING UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED INDOOR UNIT.
5. PROVIDE LOUVER.
6. PROVIDE EXHAUST FAN.
7. PROVIDE AIR CLEANER FILTER AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.

KEY PLAN



KEY PLAN



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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

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TPD HOWARD AVENUE ANNEX BUILDING
MECHANICAL FLOOR PLAN AREA A & C

TRUE PROJECT NORTH:

M-201



1 MD-201 **MECHANICAL DEMO PLAN**
3/32" = 1'-0"

GENERAL NOTES:

a. REFER TO SHEET M0001.3 FOR MECHANICAL GENERAL NOTES AND SYMBOL LEGEND.
b. REFER TO PROJECT SPECIFICATIONS FOR EQUIPMENT AND INSTALLATION REQUIREMENTS. IF THERE IS ANY DISCREPANCY BETWEEN SPECIFICATIONS AND DRAWINGS, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
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PLAN KEY NOTES: (#)

1. DEMOLISH ALL EXISTING HVAC SYSTEMS INCLUDING DUCTWORK, AIR HANDLING UNITS, PIPING, EXHAUST FANS AND AIR DEVICES.

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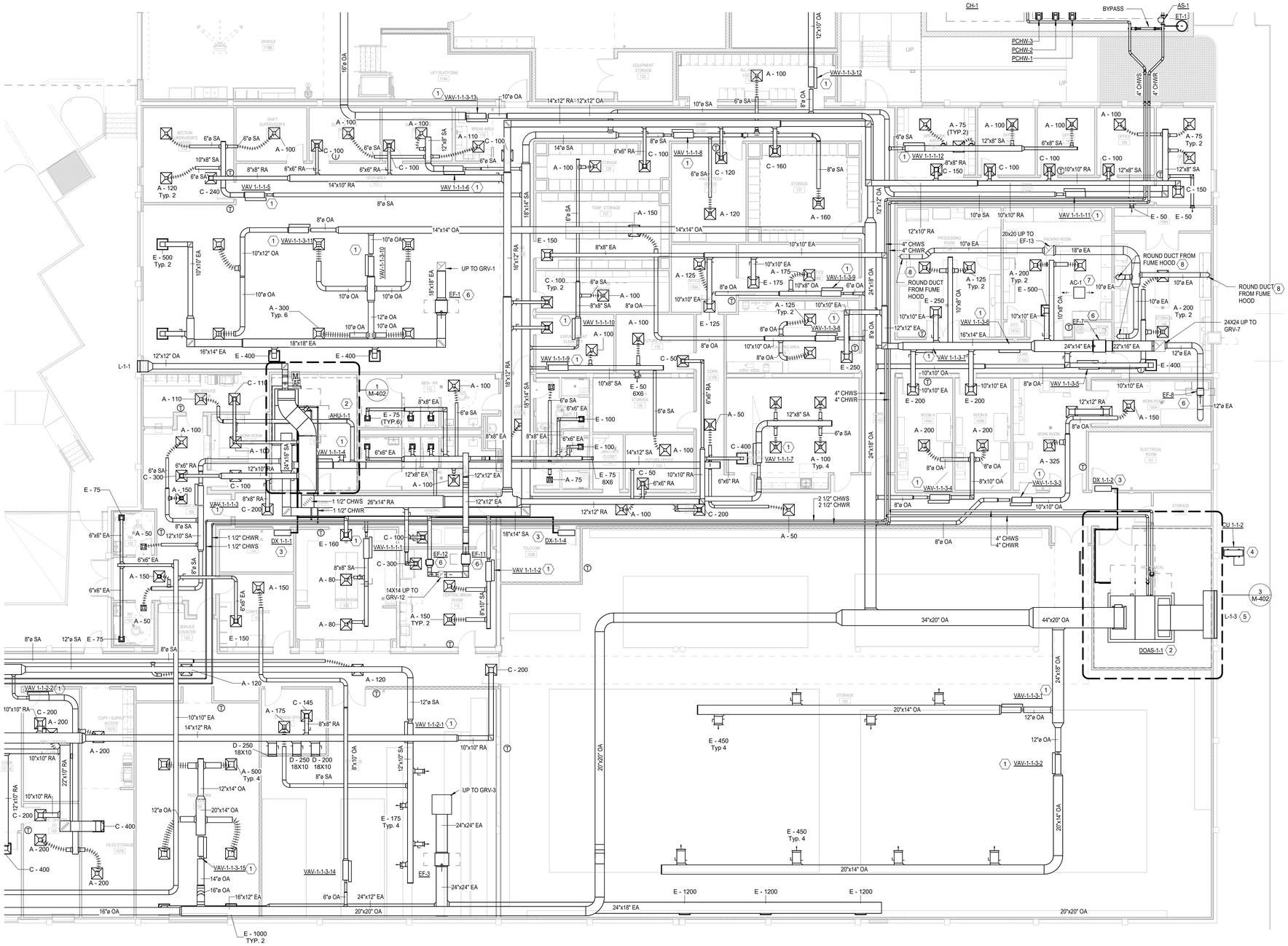
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TPD HOWARD AVENUE ANNEX BUILDING

MECHANICAL DEMO FLOOR PLAN

TRUE PROJECT NORTH:

MD-201



MECHANICAL PLAN - AREA B

1/8" = 1'-0"

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PLAN KEY NOTES: (#)

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4. PROVIDE NEW DX MINI-SPLIT CONDENSING UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED INDOOR UNIT.
5. PROVIDE LOUVER.
6. PROVIDE EXHAUST FAN.
7. PROVIDE AIR CLEANER FILTER AND INSTALL PER MANUFACTURERS INSTRUCTIONS.
8. PROVIDE ROUND DUCT FROM FUME HOOD AND ROUTE TO ROOF MOUNTED EXHAUST FAN. PROVIDE DUCT TRANSITIONS AS REQUIRED TO MAKE FINAL CONNECTION TO FUME HOOD.

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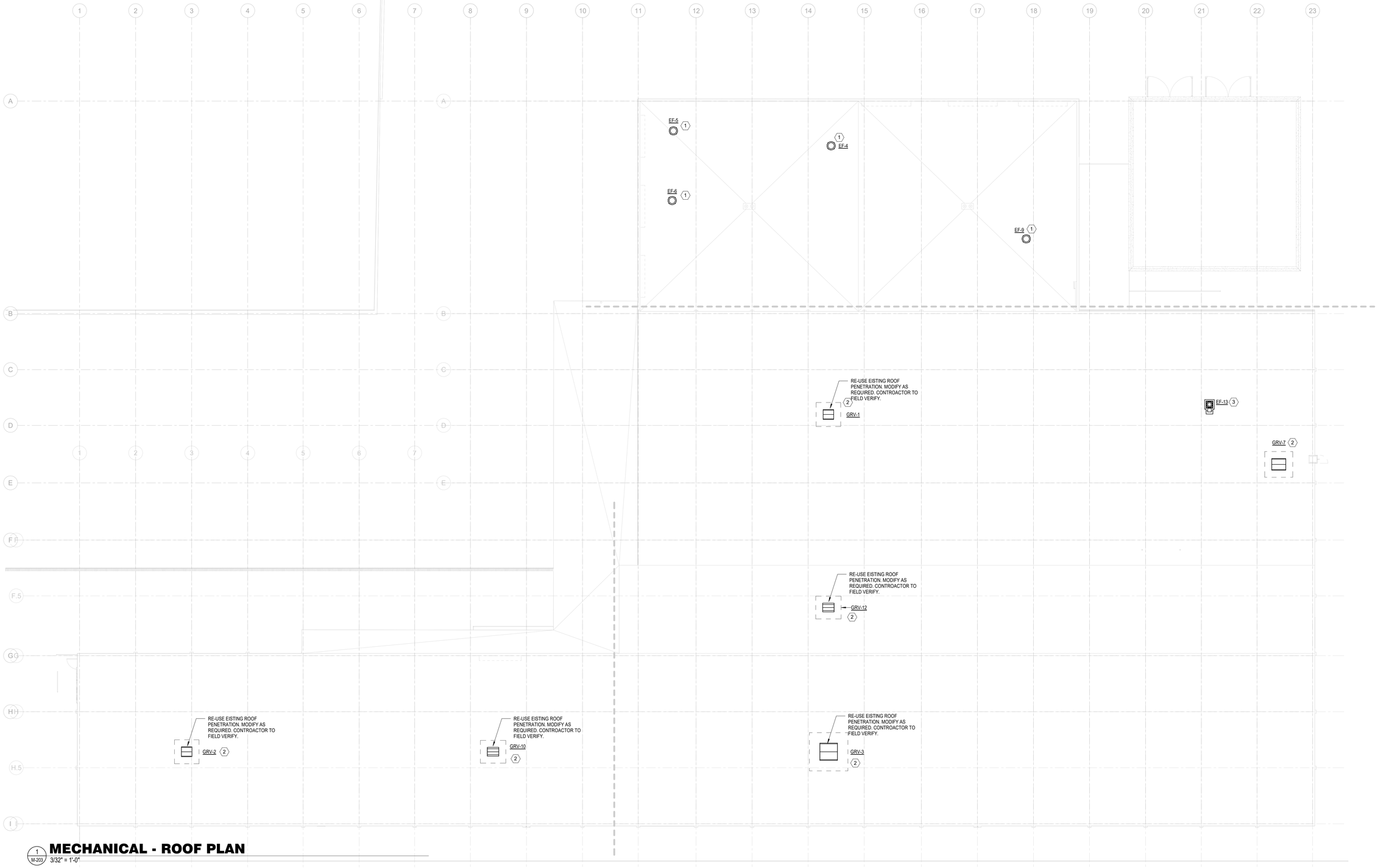
TPD HOWARD AVENUE ANNEX BUILDING

MECHANICAL FLOOR PLAN AREA B

TRUE PROJECT NORTH:

M-202

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1 M-203 MECHANICAL - ROOF PLAN

3/32" = 1'-0"

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9/3/2025

GENERAL NOTES:

a. REFER TO SHEET M001 FOR MECHANICAL GENERAL NOTES AND SYMBOL LEGEND.
b. REFER TO PROJECT SPECIFICATIONS FOR EQUIPMENT AND INSTALLATION REQUIREMENTS. IF THERE IS ANY DISCREPANCY BETWEEN SPECIFICATIONS AND DRAWINGS, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
c. DRAWINGS ARE DIAGRAMATIC AND REPRESENT THE GENERAL LAYOUT OF MECHANICAL COMPONENTS. FOR EXACT BUILDING DIMENSIONS, REFER TO ARCHITECTURAL DRAWINGS.
d. POSITION EQUIPMENT IN SUCH A WAY AS TO MAINTAIN MANUFACTURER SERVICE CLEARANCE AT ALL TIMES.
e. COORDINATE LOCATION OF DISCONNECTS WITH ELECTRICAL CONTRACTOR. DO NOT BLOCK SERVICE CLEARANCES TO EQUIPMENT.
f. ALL DUCTWORK MUST REMAIN SEALED DURING CONTRCTION PHASE.
g. ALL PIPING MUST REMAIN SELAED DURING CONSTRUCTION PHASE.
h. FLEX DUCT SHALL NOT EXCEED 6'-0" IN OVERALL LENGTH.

PLAN KEY NOTES: (#)

1. PROVIDE NEW EXHAUST FANS AND CURB. CONNECT TO NEW DUCTWORK.
2. PROVIDE NEW GRAVITY VENTILATOR AND CURB, REUSE EXISTING PENETRATION AND MODIFY AS REQUIRED.
3. PROVIDE LABORATORY EXHAUST FAN, CURB AND ALL REQUIRED APPURTENANCES. INSTALL PER MANUFACTURER'S INSTRUCTIONS. TEST AND BALANCE FAN AS REQUIRED. INTERLOCK FAN TO ALL FUME HOODS SUCH THAT FAN ACTIVATES AT FULL FLOW SHOULD ANY HOOD BE ENABLED.

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ADG PROJECT NO. 1087

C.o.T. NO. 24-C-00032

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REVISIONS:

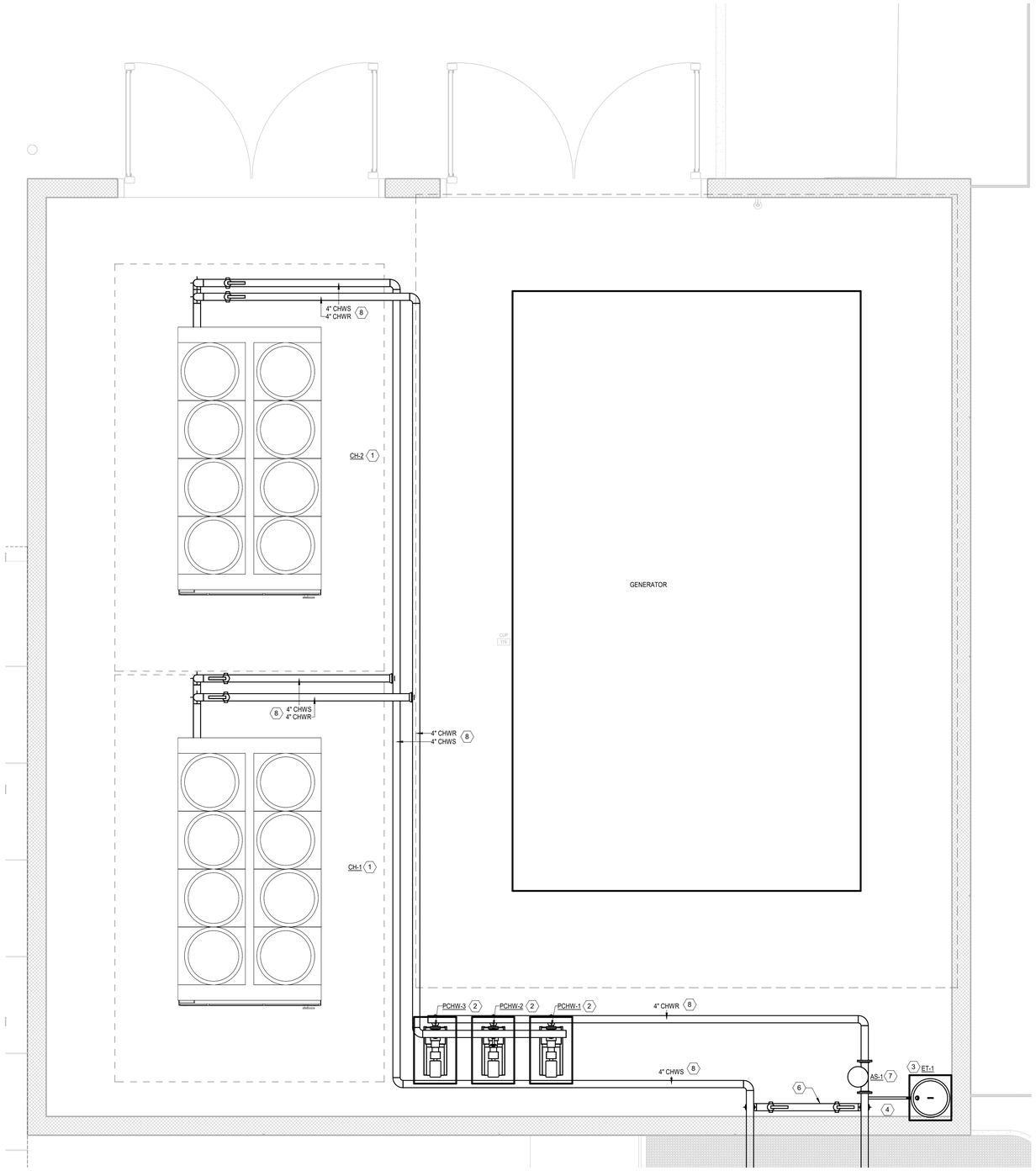
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TPD HOWARD AVENUE ANNEX BUILDING

MECHANICAL FLOOR PLAN - ROOF

TRUE PROJECT NORTH:

M-203



1 M-401 **MECHANICAL PLAN - CHILLER YARD**
3/8" = 1'-0"

GENERAL NOTES:

a. REFER TO SHEET M001 FOR MECHANICAL GENERAL NOTES AND SYMBOL LEGEND.

b. REFER TO PROJECT SPECIFICATIONS FOR EQUIPMENT AND INSTALLATION REQUIREMNETS. IF THERE IS ANY DISCREPANCY BETWEEN SPECIFICATIONS AND DRAWINGS, THE MOST STRINGENT REQUIREMENT SHALL APPLY.

c. DRAWINGS ARE DIAGRAMATIC AND REPRESENT THE GENERAL LAYOUT OF MECHANICAL COMPONENTS. FOR EXACT BUILDING DIMENSIONS, REFER TO ARCHITECTURAL DRAWINGS.

d. POSITION EQUIPMENT IN SUCH A WAY AS TO MAINTAIN MANUFACTURER SERVICE CLEARANCES AT ALL TIMES.

e. COORDINATE LOCATION OF DISCONNECTS WITH ELECTRICAL CONTRACTOR. DO NOT BLOCK SERVICE CLEARANCES TO EQUIPMENT.

f. ALL DUCTWORK MUST REMAIN SEALED DURING CONSTRUCTION PHASE.

g. ALL PIPING MUST REMAIN SELAED DURING CONSTRUCTION PHASE.

h. ALL EXPOSED PIPING SHALL BE ENCLOSED IN ALUMINUM JACKET.

PLAN KEY NOTES: (#)

1. PROVIDE NEW CHILLER, EQUIPMENT PAD, CONTROLS, HYDRONIC DEVICES AND ALL REQUIRED APPURTENANCES. SEE SCHEDULE FOR DETAILS.
2. PROVIDE CHILLED WATER, EQUPMENT PAD, HYDRONIC EQUIPMENT AND ALL REQUIRED APPURTENANCES. SEE SCHEDULE FOR DETAILS.
3. PROVIDE EXPANSION TANK, EQUIPMENT PAD AND ROUTE CONNECT TO CHILLED WATER RETURN PIPE.
4. PROVIDE CHEMICAL SHOT FEEDER AND INSTALL PER MANUFACTURERS INSTRUCTIONS.
5. PROVIDE MAKE UP WATER LINE TO AS-1.
6. PROVIDE BYPASS, ISOLATION VALVE AND MOTORIZED CONTROL VALVE.
7. PROVIDE AIR SEPARATOR.
8. PROVIDE CHILLED WATER PIPE, CONTROLS AND ALL RQUIRED HYDRONIC DEVICES. PROVIDE PIPE SUPPORTS AS REQUIRED. ALL EXTERIOR PIPING TO HACE ALUMINUM JACKETING.

City of Tampa
CONSTRUCTION SERVICES DIVISION
PLANS APPROVAL
BLD-25-0517072 9/3/2025
THIS SET OF PLANS MUST BE KEPT ON THE JOB AT ALL TIMES
It is unlawful to make changes or alterations without written approval from the City of Tampa Construction Services Division.
This Stamp is void if plans are altered or held to permit conditions in violation of any City or State Codes.
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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

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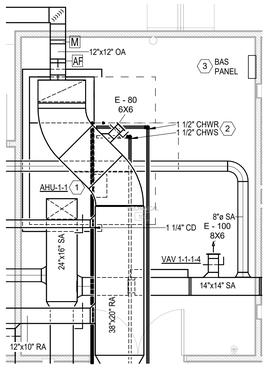
TPD HOWARD AVENUE ANNEX BUILDING

MECHANICAL ENLARGED PLANS

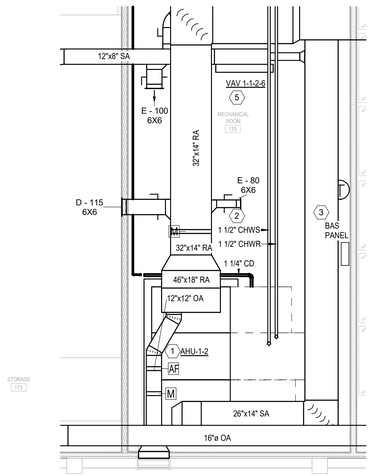
TRUE PROJECT NORTH:

M-401

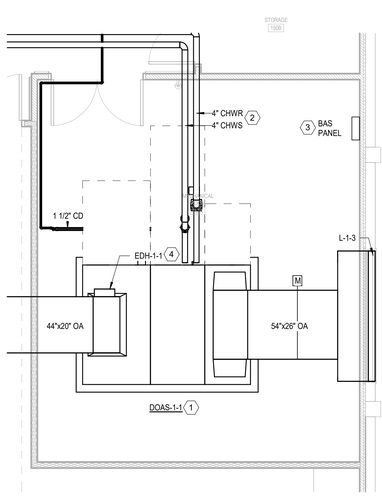
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BLD-25-0517072
9/3/2025



1 M-402 **MECHANICAL PLAN-AHU-1-1**
1/4" = 1'-0"



2 M-402 **MECHANICAL PLAN-AHU-1-2**
1/4" = 1'-0"



3 M-402 **MECHANICAL ENLARGED PLAN-DOAS-1-1**
1/4" = 1'-0"

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PLAN KEY NOTES: (#)

1. PROVIDE AIR HANDLING UNIT, EQUIPMENT PAD, CONDENSATE PIPE, CONTROLS AND ALL REQUIRED APPURTENANCES.
2. PROVIDE CHILLED WATER PIPE, CONTROLS AND ALL REQUIRED HYDRONIC DEVICES.
3. PROVIDE DDC CONTROLS AND BAS PANEL.
4. PROVIDE ELECTRIC DUCT HEATER.
5. PROVIDE VAV BOX, THERMOSTAT AND ALL REQUIRED APPURTENANCES.

CITY OF TAMPA
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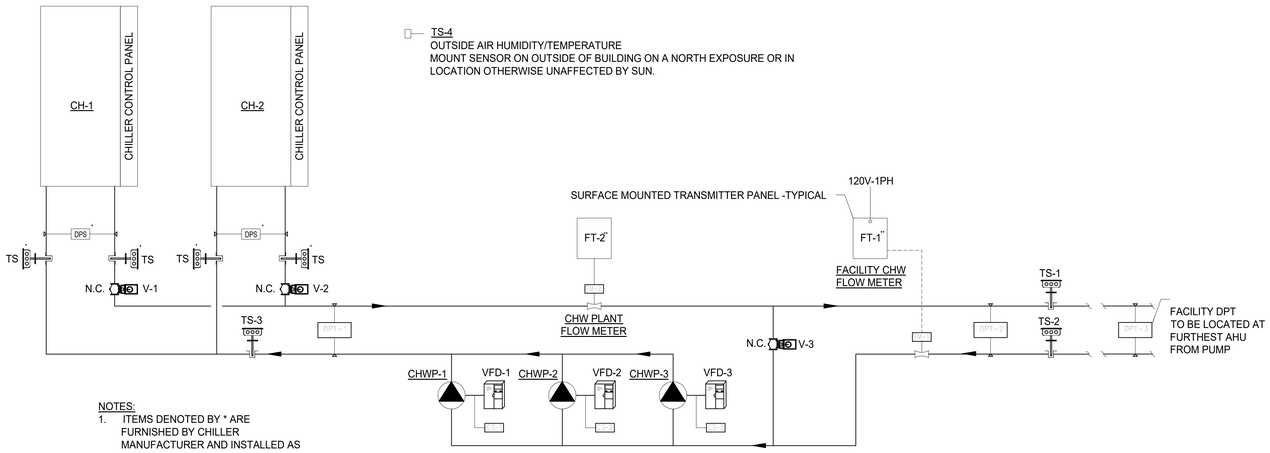
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TPD HOWARD AVENUE ANNEX BUILDING

MECHANICAL ENLARGED PLANS

TRUE PROJECT NORTH:

M-402



NOTES:
1. ITEMS DENOTED BY * ARE FURNISHED BY CHILLER MANUFACTURER AND INSTALLED AS PART OF DDC WORK.
2. ITEMS DENOTED BY ** ARE FURNISHED BY FLOW METER MANUFACTURER AND INSTALLED AS PART OF DDC WORK.

CHW SYSTEM CONTROL SCHEMATIC

CHILLED WATER SYSTEM SEQUENCE OF OPERATION

A. OPERATING MODES - GENERAL:

1. PROVIDE FOR SYSTEM FOUR OPERATIONAL MODES: UNOCCUPIED OPERATION AND OCCUPIED OPERATION, WARM-UP & COOL-DOWN OPERATION, AND NIGHT SET-UP/SET-BACK OPERATION. OPERATING MODES SHALL BE COMMANDED BY THE DDC.
2. OCCUPIED MODE: WHEN COMMANDED BY THE DDC, THE SYSTEM ENTERS THE OCCUPIED MODE. PUMP SYSTEM AND CHILLER CONTROL ALGORITHMS ARE ENABLED, SUBJECT TO SEQUENCES OF OPERATION.
3. UNOCCUPIED MODE: WHEN COMMANDED BY THE DDC, THE SYSTEM OPERATION SHALL BE DISABLED. THE CHILLER AND PUMPS SHALL STOP, AND ALL CONTROL ALGORITHMS DISABLED.
4. WARM-UP & COOL-DOWN MODES: CHILLED WATER SYSTEM SHALL START AND OPERATE AS IN OCCUPIED MODE. WHEN COMMANDED BY THE DDC, PUMP SYSTEM AND CHILLER CONTROL ALGORITHMS ARE ENABLED, SUBJECT TO SEQUENCES OF OPERATION.
5. NIGHT SET-UP OR SET-BACK MODE: WHEN COMMANDED BY THE DDC, THE SYSTEM SHALL LEAVE THE UNOCCUPIED MODE AND OPERATE AS IN OCCUPIED MODE WHILE COOLING IS REQUIRED. WHEN THE COOLING LOAD IS SATISFIED, THE SYSTEM SHALL RETURN TO UNOCCUPIED MODE.

B. CHILLED WATER SYSTEM:

1. DESCRIPTION: SYSTEM CONSISTS OF TWO PACKAGED AIR-COOLED WATER CHILLER AND VARIABLE PRIMARY CHILLED WATER PUMPS. THE CHILLED WATER SYSTEM SHALL BE SEQUENCED TO MATCH THE BUILDING LOADS. PUMPS ARE VARIABLE VOLUME, EACH WITH A VARIABLE FREQUENCY DRIVE MOTOR STARTER. PACKAGED WATER CHILLER CONTAINS COMPRESSOR MOTOR STARTERS, CONDENSER FAN MOTOR STARTERS, AND MICROPROCESSOR BASED CHILLER CONTROLLER. PRIMARY CHILLER CONTROL IS THROUGH A FACTORY MOUNTED MICROPROCESSOR BASED CONTROL PANEL INTEGRAL TO CHILLER. THE CHILLER AND DDC OPERATE IN CONJUNCTION WITH THE WATER CHILLER MICROPROCESSOR CONTROL PANEL THROUGH A DATA GATHERING PANEL. FURNISH HARD WIRED CONTROL POINTS INDICATED AND VIRTUAL POINT THROUGH THE DATA GATHERING PANEL WITH A DDC COMPATIBLE COMMUNICATION CABLE. OPERATION OF THE COLLABORATIVE CONTROL SYSTEM SHALL NOT ENCUMBER CHILLER OR PUMP WARRANTIES.
2. PROVIDE PRIMARY/STANDBY (LEAD/LAG) ALGORITHM FOR THE CHILLERS AND ADDITIONAL INTERLOCKS. CHILLERS SHALL BE ASSIGNED A LEAD/LAG STATUS AND THEY SHALL BE AUTOMATICALLY ROTATED ON A PERIODIC BASIS BASED ON A RUNTIME ANALYSIS. PROVISIONS SHALL BE MADE FOR FORCED ROTATION BY THE SYSTEM OPERATOR.
3. COORDINATE THE WORK IN THIS SEQUENCE OF OPERATION WITH THE CHILLER MANUFACTURERS TO ENSURE THAT THE MONITORING AND CONTROL POINTS NOTED ARE PROVIDED AND THAT THE MINIMUM AND MAXIMUM CHILLER EVAPORATOR FLOW RATES ARE RESPECTED. THE DDC MANUFACTURER SHALL PROVIDE THE DYNAMIC GRAPHIC ILLUSTRATIONS NOTED IN THIS SEQUENCE OF OPERATION; GRAPHICS SHALL BE BASED ON "REAL TIME" DATA GATHERINGS AND SHALL BE ACCESSIBLE THROUGH THE DDC WORKSTATION COMPUTER.
4. CHILLER CONTROL: THE SYSTEM STARTUP SHALL BE ACCOMPLISHED BASED ON A CALL FOR COOLING PROGRAMMED OPERATING SCHEDULE, AS NECESSARY BASED ON THE ASSOCIATED AIR HANDLING UNIT "MODE" SETTINGS OR THROUGH A MANUAL COMMAND AT THE DDC OPERATOR WORKSTATION. WHEN ENABLED, SUBJECT TO DIAGNOSTIC SAFETY DEVICES AND THE CHILLER MICROPROCESSOR CONTROL SOFTWARE, THE LEAD CHILLER SHALL START. EACH CHILLER SHALL BE ASSIGNED A LEAD/LAG STATUS AND THEY SHALL BE AUTOMATICALLY ROTATED ON A PERIODIC BASIS BASED ON A RUNTIME ANALYSIS. PROVISIONS SHALL BE MADE FOR FORCED ROTATION BY THE SYSTEM OPERATOR.
   a. LEAD CHILLER START:
      - UPON A CALL FOR COOLING THE OPEN THE LEAD CHILLER'S ISOLATION VALVE.
      - UPON VERIFYING VALVE OPEN STATUS, START THE CHILLED WATER PUMP SYSTEM.
      - UPON VERIFYING PUMP STATUS THE LEAD CHILLER SHALL BE ENABLED.
      - UPON THE CHILLER MEETING ITS FLOW SAFETY, THE LEAD CHILLER SHALL OPERATE UNDER ITS INTERNAL CONTROLS TO PROVIDE THE LEAVING WATER SETPOINT OF 42°F (ADJ)
   b. LEAD CHILLER STOP:
      - WHEN NO CALL FOR COOLING EXIST ENTERING THE UNOCCUPIED SCHEDULE, THE LEAD CHILLER SHALL BE DISABLED.
      - DISABLE PUMP
      - UPON THE BAS VERIFYING THE PUMP SYSTEM DISABLED, CLOSE THE ASSOCIATED ISOLATION VALVE .
   c. LAG CHILLER START:
      - WHEN THE LEAD CHILLER IS GREATER THAN 90% (ADJ) LOADED FOR 15 MINUTES (ADJ) THE LAG CHILLER SHALL ENTER START SEQUENCE.
      - OPEN CHILLER ISOLATION VALVE SLOWLY ENOUGH TO ALLOW VARIABLE SPEED PUMPS TO CATCH UP TO PREVENT SUDDEN FLOW DROP THROUGH LEAD CHILLER AS LAG CHILLER COMES ONLINE
      - UPON VERIFYING VALVE OPEN STATUS AND THE CHILLER MEETING ITS FLOW SAFETY ENABLE THE LAG CHILLER.
      - BOTH CHILLERS SHALL OPERATE EQUALLY SHARING THE LOAD.
   d. LAG CHILLER STOP:
      - WHEN THE TWO CHILLERS BECOME LESS THAN 40%. (ADJ) LOADED FOR 15 MINUTES (ADJ) THE LAG CHILLER SHALL ENTER STOP SEQUENCE.
      - CLOSE THE ASSOCIATED CHILLER ISOLATION VALVE
   e. CHILLER SHALL HAVE A MINIMUM ON-TIME OF 5 MINUTES AND A MINIMUM OFF-TIME OF 15 MINUTES (OPERATOR ADJUSTABLE 0-60 MIN. EACH CHILLER, SUBJECT TO CHILLER WARRANTY), SUBJECT TO CHILLER SAFETY DEVICES. VERIFY WITH CHILLER START UP TECHNICIAN.
   f. TIME DELAYS (SOFTWARE TIMERS) DESCRIBED IN THE SEQUENCE SHALL BE FULLY ADJUSTABLE AND PRIOR TO INITIAL STARTUP, SET TO NOT EXCEED THE RECOMMENDATIONS OF THE CHILLER MANUFACTURER.
   g. IF THE CHILLER FAILS TO START, A "FAULT" SIGNAL SHALL BE ISSUED TO THE DDC WORKSTATION COMPUTER AND THE AUDIBLE/VISUAL ALARM SHALL BE ENABLED; RESET AT THE DDC OPERATOR WORKSTATION COMPUTER.
   h. ACQUISITION OF OUTDOOR AIR TEMPERATURE AND HUMIDITY CONDITIONS SHALL BE THROUGH THE DDC VIA THE SENSORS INDICATED. COMMUNICATION POINTS WITHIN THIS SEQUENCE WHICH ARE NOT INDICATED ON THE DIGITAL CONTROLLER LAYOUT SHALL BE ACQUIRED AS VIRTUAL POINTS FROM THE CHILLER MICROPROCESSOR THROUGH THE DATA GATHERING PANEL.
   i. SYSTEM STATUS SCREEN: PROVIDE A GRAPHIC ILLUSTRATION OF THE SYSTEM WITH STATUS INDICATIONS NOTED, ACCESSIBLE THROUGH THE DDC WORKSTATION COMPUTER. PROVIDE THE FOLLOWING INFORMATION:

      CURRENT TIME, DATE AND OUTDOOR TEMPERATURE.
      CHILLER SYSTEM ON/OFF.
      CHILLER REQUEST AND PROOF STATUS
      CHILLER FAULT.
      CHILLED WATER SUPPLY TEMPERATURE SETPOINT.
      CHILLED WATER SYSTEM LOOP DIFFERENTIAL PRESSURE SETPOINT.
      CHILLED WATER SYSTEM LOOP DIFFERENTIAL ACTUAL PRESSURE.
      CHW SUPPLY AND RETURN TEMPERATURE.
      DELAY TIME REMAINING.
      CURRENT PUMP SEQUENCE.
      CHILLED WATER PUMP REQUEST AND PROOF STATUS
      DAYS UNTIL NEXT PUMP ROTATION.
      PUMPS % LOADED.
      PUMPS FAILED.
      CHILLED WATER FLOW RATE.
      RUN HOURS THIS START.
      PUMP RUNNING HOURS AND STARTS TODAY, THIS MONTH.
      CHILLER RUNNING HOURS AND STARTS TODAY, THIS MONTH.
      EVAPORATOR CHILLED WATER LEAVING AND ENTERING TEMPERATURE PRESENTLY, TODAY'S AVERAGE, THIS MONTH'S AVERAGE.
      EVAPORATOR REFRIGERANT TEMPERATURES AND PRESSURES PRESENTLY, TODAY'S AVERAGE,THIS MONTH'S AVERAGE.
      CONDENSER REFRIGERANT TEMPERATURES AND PRESSURES PRESENTLY, TODAY'S AVERAGE,THIS MONTH'S AVERAGE.
      CHILLER CURRENT, TODAY'S AVERAGE, THIS MONTH'S AVERAGE.
      CHILLED WATER PUMP CURRENT, TODAY'S AVERAGE, THIS MONTH'S AVERAGE.
      DIAGNOSTIC STATUS INCLUDING A SAVED CHILLER STATUS REPORT WHICH INDICATES OPERATING CONDITIONS AT 60 SECONDS PRIOR TO ANY ALARM WHICH SHUTS DOWN THE CHILLER.
      CHW BYPASS VALVE POSITION.
      FACILITY CHILLED WATER FLOW RATE.
      CHW PLANT FLOW RATE.
      ANY OUT-OF -TOLERANCE POINT.
5. VARIABLE-PRIMARY CHILLED WATER PUMP CONTROL: PROVIDE THE FOLLOWING CONTROL:
   a. WHEN THE HAND-OFF-AUTO (H-O-A) SWITCH INITIATES A START SIGNAL THROUGH THE "HAND" POSITION, OR THE DDC INITIATES A START SIGNAL WITH THE H-O-A IN THE "AUTO" POSITION, THE "LEAD" CHILLED WATER PUMP SHALL START AND RUN CONTINUOUSLY. WHEN THE H-O-A SWITCH INITIATES A STOP SIGNAL THROUGH THE "OFF" POSITION, OR THE DDC INITIATES A STOP SIGNAL WITH THE H-O-A IN THE "AUTO" POSITION, THE "LEAD" CHILLED WATER PUMP SHALL STOP.
   b. DDC SHALL MODULATE THE SPEED OF THE CHILLED WATER PUMPS BASED ON THE SETPOINT OF THE FACILITY DIFFERENTIAL PRESSURE SENSOR (DPT-3) IN THE CHILLED WATER PIPING LOOP. IF A FAILURE OF THE FACILITY DIFFERENTIAL PRESSURE SENSOR/TRANSMITTERS OCCURS, THE DDC SHALL INDICATE AN ALARM AT THE WORKSTATION COMPUTER, AND RESORT TO THE CEP DIFFERENTIAL PRESSURE SENSOR (DPT-2) (DPT-2). IF A FAILURE OF THE CEP DIFFERENTIAL PRESSURE SENSOR OCCURS, THE DDC RESORT TO THE DIFFERENTIAL PRESSURE SETPOINT LAST SENSED AT THE CHILLER.
   c. ENABLING/DISABLING OF THE "LAG" AND "FOLLOW" PUMPS SHALL BE SIMILAR, BASED ON THE DIFFERENTIAL PRESSURE SENSOR IN THE FACILITY.
   d. IF THE "LEAD" PUMP FAILS, IT SHALL BE MARKED AS FAILED (ALARM TO THE DDC SYSTEM) AND THE PUMP IN THE "LAG" POSITION SHALL START AND ASSUME THE OPERATING POSITION IN THE ROTATION. THE SAME SHALL OCCUR FOR THE PUMP IN THE "FOLLOW" POSITION.
   e. CHILLED WATER PUMP PROOF OF FLOW SHALL BE ESTABLISHED BY THE CURRENT SENSING OUTPUT FROM AN ANALOG CURRENT SENSING TRANSDUCER AT EACH RESPECTIVE PUMP VARIABLE FREQUENCY DRIVE MOTOR STARTER.
   f. THE DDC SHALL MONITOR SYSTEM FLOW THROUGH THE PIPING FLOW METER. CALCULATE LOADS AT THE FLOW METER BY MEASURING THE CHILLED WATER FLOW (IN GPM) AT FLOW METER AND THE SUPPLY AND WATER RETURN TEMPERATURES LOCAL TO THE FLOW METER. THE SYSTEM INFORMATION (IN TONS) SHALL BE AVAILABLE AT THE DDC SYSTEM WORKSTATION COMPUTER.
   g. PROVIDE SOFTWARE ADJUSTABLE MINIMUM ON AND OFF TIMES FOR THE CHILLED WATER PUMPS TO PREVENT SHORT CYCLING.
   h. AUTOMATIC LEAD/LAG SELECTION IS BASED UPON A MAXIMUM OF ONE CALENDAR WEEK RUN TIME FOR EACH PUMP. LEAD/LAG SELECTION MAY ALSO BE MADE MANUALLY AT THE DDC WORKSTATION COMPUTER.
6. CHILLED WATER BYPASS VALVE: SYSTEM CONSISTS OF A MOTOR ACTUATED TWO-WAY MODULATING CONTROL VALVE. DDC SYSTEM SHALL MODULATE THE BYPASS VALVE OPEN/CLOSE TO MAINTAIN THE MINIMUM AND MAXIMUM WATER FLOW RATES CORRESPONDING TO THE DIFFERENTIAL PRESSURE SENSED AT THE CHILLER. COORDINATE BYPASS VALVE OPENING/CLOSING TIME AND CHILLER RATE OF CHANGE RESTRICTIONS TO AVOID NUISANCE TRIPPING OF LOW AND HIGH WATER PRESSURE CONDITIONS AT CHILLER.
7. TRENDING: INCLUDE SOFTWARE AT DDC WORKSTATION COMPUTER TO ENABLE EXTRACTING OF SYSTEM TREND INFORMATION. SOFTWARE SUCH AS MICROSOFT EXCEL IS ACCEPTABLE. DURING SYSTEM OPERATION, PROVIDE THE FOLLOWING TREND LOGS PREPROGRAMMED:

TREND	INTERVAL	SAVE TO FILE
OUTSIDE AIR TEMP.	15 MINUTES	YES
OUTSIDE AIR HUMIDITY.	15 MINUTES	YES
CH/1 SETPOINT	15 MINUTES	YES
CH-1 COMMAND / STATUS	15 MINUTES	YES
CH-1 CHWS TEMP.	15 MINUTES	YES
CH-1 CHWR TEMP.	15 MINUTES	YES
CH-1 TROUBLE ALARM	15 MINUTES	YES
CH/2 SETPOINT	15 MINUTES	YES
CH-2 COMMAND / STATUS	15 MINUTES	YES
CH-2 CHWS TEMP.	15 MINUTES	YES
CH-2 CHWR TEMP.	15 MINUTES	YES
CH-2 TROUBLE ALARM	15 MINUTES	YES
SYSTEM CHW FLOW RATE.	15 MINUTES	YES
FACILITY CHW FLOW RATE.	15 MINUTES	YES
FACILITY CHWS TEMP.	15 MINUTES	YES
FACILITY CHWR TEMP.	15 MINUTES	YES
SYSTEM TONS	15 MINUTES	YES
PRIMARY PUMP 1 STATUS	15 MINUTES	YES
PRIMARY PUMP 1 ALARM	15 MINUTES	YES
PRIMARY PUMP 2 STATUS	15 MINUTES	YES
PRIMARY PUMP 2 ALARM	15 MINUTES	YES
PRIMARY PUMP 3 STATUS	15 MINUTES	YES
PRIMARY PUMP 3 ALARM	15 MINUTES	YES

8. ALARMS: PRINT DIAGNOSTIC ALARM TO DDC IF SEQUENCE OF OPERATION CANNOT BE ACCOMPLISHED. OPERATORS SHALL BE ABLE TO VIEW ALL POINTS OF CONTROL PRIOR TO FAILURE. PROVIDE OTHER DIAGNOSTIC AND MAINTENANCE ALARMS AS NOTED IN SEQUENCES.
   a. ON A START SIGNAL TO ANY WATER-MOVING, OR HEAT-GENERATING DEVICE. ALL ALARMS SHALL BE CLEAR PRIOR TO UNIT START-UP. ALL ALARMS SHALL BE AVAILABLE FOR DISPLAY IN THE DDC SYSTEM.
   b. IF THE DDC SYSTEM IS COMMANDING A PUMP OR CHILLER OFF DUE TO AN OUT OF TOLERANCE OPERATION POINT, THE DDC SHALL INDICATE THE ALARM THROUGH THE EQUIPMENT STATUS POINT.
   c. WITH THE H-O-A SWITCH IN THE "AUTO" POSITION, THE DDC SHALL COMMAND THE RELATED EQUIPMENT; SUBJECT TO ALARMS STATUS OF ANY OUT OF TOLERANCE PARAMETER.
   d. WITH THE H-O-A SWITCH IN THE "HAND" POSITION, THE EQUIPMENT SHALL OPERATE REGARDLESS OF THE DDC SYSTEM COMMAND; IF THE DDC SYSTEM IS COMMANDING THE SYSTEM "OFF", THE DDC SHALL INDICATE AN ALARM THROUGH THE PUMP OR CHILLER STATUS POINT. ALARMS SHALL CLEAR WHEN THE RESPECTIVE H-O-A SWITCH IS MOVED FROM THE "HAND" TO THE "OFF" OR "AUTO" POSITION.
   e. WITH THE H-O-A SWITCH IN THE "OFF" POSITION, THE EQUIPMENT SHALL BE DEACTIVATED REGARDLESS OF THE DDC SYSTEM COMMAND; IF THE DDC SYSTEM IS COMMANDING THE SYSTEM "ON", THE DDC SHALL INDICATE AN ALARM THROUGH THE PUMP OR CHILLER STATUS POINT. ALARMS SHALL CLEAR WHEN THE RESPECTIVE H-O-A SWITCH IS MOVED FROM THE "OFF" TO THE "AUTO" POSITION.
   f. ALARMS: PROVIDE THE FOLLOWING ALARMS:

ALARM	REPORT	ACTION
CH-1 FAULT	YES	MARK CHILLER AS "FAILED"
CH-2 FAULT	YES	MARK CHILLER AS "FAILED"
CH-1 IN UNCOMMANDED STATE	YES	MARK CHILLER AS "FAILED"
CH-2 IN UNCOMMANDED STATE	YES	MARK CHILLER AS "FAILED"
CHWP/1 FAULT	YES	MARK PUMP AS "FAILED"
CHWP-2 FAULT	YES	MARK PUMP AS "FAILED"
CHWP-3 FAULT	YES	MARK PUMP AS "FAILED"
CHWP-4 FAULT	YES	MARK PUMP AS "FAILED"
CHWP-1 IN UNCOMMANDED STATE	YES	MARK PUMP AS "FAILED"
CHWP-2 IN UNCOMMANDED STATE	YES	MARK PUMP AS "FAILED"
CHWP-3 IN UNCOMMANDED STATE	YES	MARK PUMP AS "FAILED"
CHWP-4 IN UNCOMMANDED STATE	YES	MARK PUMP AS "FAILED"
CHWS HIGH TEMP	YES	-
CHWR HIGH TEMP	YES	-
CHWS LOW TEMP	YES	-
CHWR LOW TEMP	YES	-
COMMAND LOSS TO ANY FIELD CONTROLLER	YES	REVERT TO STAND ALONE OPERATION

9. UNOCCUPIED SETBACK OPERATION (DURING UNOCCUPIED MODE): DURING THE SYSTEM UNOCCUPIED MODE, THROUGH THE AHU SYSTEM OVERRIDE ALGORITHM, THE CHILLED WATER SYSTEM SHALL ENTER A SET UP OPERATION MODE. THE CHILLER AND PUMPS SHALL BE ACTIVATED, TEMPERATURE CONTROL ALGORITHMS SHALL BE ENABLED, AND SYSTEM SHALL OPERATE. PROVIDE SOFTWARE TIME DELAY RELAYS FOR MINIMUM ON/OFF TIMES (DDC OPERATOR ADJUSTABLE; SET FOR 15 MINUTES ON, AND 15 MINUTES OFF) FOR AHU COOL DOWN /SET UP OPERATION.
10. EVENT LOG: MAINTAIN IN THE DDC SYSTEM, A HISTORICAL RECORD OF ALL ALARMS AND SIGNIFICANT CONTROL CHANGES IMPLEMENTED OR RECEIVED BY THE DDC SYSTEM. MAINTAIN A RECORD OF ALL LOG_ON REQUESTS AND OPERATOR CHANGES.
11. RUN-TIME MAINTENANCE: MAINTAIN FOR EACH PUMP AND CHILLER A RECORD OF THE RUN TIME AND NUMBER OF STARTS.

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C.o.T. NO. 24-C-00032

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09/09/2024

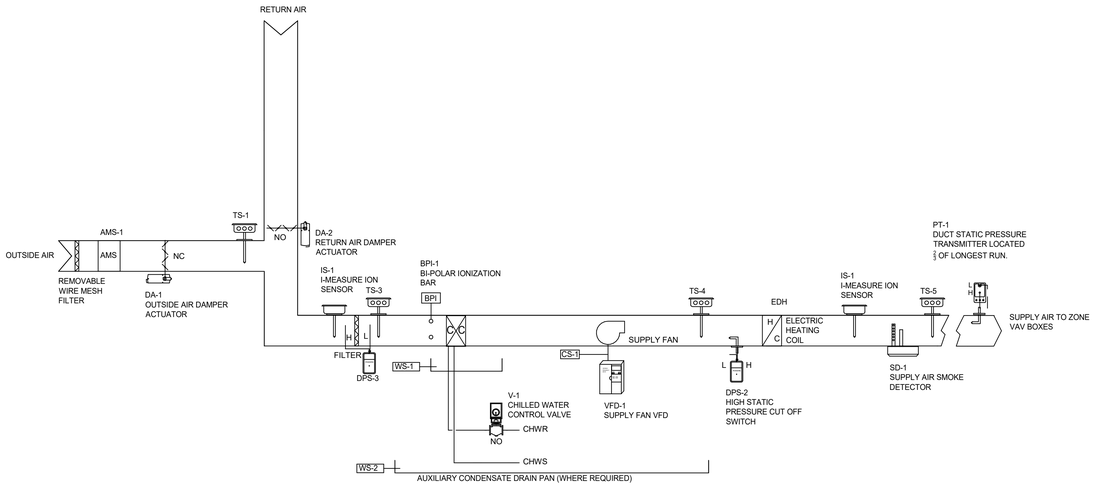
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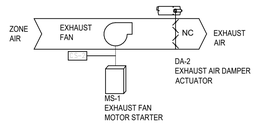
M-601



VARIABLE AIR VOLUME AIR HANDLING UNIT CONTROL DIAGRAM

NTS

(AHU-1, AHU-2, AHU-3)



NTS

EXHAUST FAN CONTROL DIAGRAM -

MULTI-ZONE VAV AHU SEQUENCE OF OPERATION

UNOCCUPIED: WHEN THE BUILDING IS INDEXED FOR UNOCCUPIED OPERATION, ALL MOTORIZED DAMPERS AND CONTROL VALVES SHALL MODULATE TO THEIR NORMAL POSITIONS AND THE SUPPLY AND ASSOCIATED EXHAUST FANS SHALL STOP. ALL BI-POLAR IONIZATION BARS SHALL BE DE-ENGERIZED.

UNOCCUPIED OVERRIDE: AN OVERRIDE MODE SHALL BE PROVIDED THAT WILL PERMIT OPERATION OF THE AIR-HANDLING UNIT TO FEED THE ZONE IN OVERRIDE. WHEN IN OVERRIDE, THE UNIT SHALL OPERATE FOR A PERIOD OF 2 HOURS (ADJ.). THE EMS SHALL CALL FOR THE CHILLER TO OPERATE.

NIGHT SET-BACK: THE SPACE TEMPERATURE SENSOR SHALL SIGNAL THE AIR HANDLING UNIT START WHEN A SPACE TEMPERATURE DROPS TO 60°F (ADJ.) AND STOP WHEN ALL ZONES REACH 64°F (ADJ.) THE UNIT SHALL OPERATE AS DESCRIBED IN THE WARM-UP MODE.

NIGHT SET-UP: THE SPACE TEMPERATURE SENSOR SHALL SIGNAL THE AIR HANDLING UNIT TO START WHEN ANY SPACE TEMPERATURE RISES TO 85°F (ADJ.). THE EMS SHALL CALL FOR THE CHILLER TO START. THE UNIT SHALL STOP WHEN ALL TEMPERATURES DROP TO 80°F. THE UNIT SHALL OPERATE AS DESCRIBED UNDER COOL-DOWN MODE.

MORNING COOL DOWN OR WARM UP PERIOD: MAINTAIN THE OUTSIDE AIR CLOSED AND RUN UNIT FOR AN INITIAL PERIOD OF 1 HOUR (ADJ.) PRIOR TO OCCUPANCY WITH A SYSTEM LEARNED MINIMUM. ASSOCIATED EXHAUST FANS SHALL NOT OPERATE DURING THE COOL DOWN OR WARM UP MODE. THE UNIT SHALL START AND MAINTAIN A DISCHARGE TEMPERATURE OF 52°F (ADJ.), SENSED BY TS-4, DURING COOL-DOWN; DURING WARM UP CHILLED WATER VALVE SHALL BE CLOSED.

OCCUPIED: WHEN THE BUILDING IS INDEXED FOR OCCUPIED OPERATION BY THE EMS, OPEN THE OUTSIDE AIR, RELIEF AIR AND EXHAUST AIR DAMPERS. AFTER DAMPER POSITIONS ARE PROVEN OPEN THE SUPPLY RELIEF AND EXHAUST FANS SHALL BE ENERGIZED. AFTER PROOF OF FANS STATUS, TEMPERATURE CONTROL ALGORITHMS SHALL BE ENABLED. BI-POLAR IONIZATION BARS (BPI-1) SHALL ENERGIZE.

TEMPERATURE CONTROL:

COOLING: THE CHILLED WATER CONTROL VALVE SHALL MODULATE TO MAINTAIN A DISCHARGE AIR TEMPERATURE SETPOINT OF 55°F (ADJ) AS SENSED BY TS-4

HEATING: THE ZONE TERMINAL UNITS SHALL PROVIDE HEAT TO MAINTAIN HEATING TEMPERATURE SETPOINT OF 68°F (ADJ.).

SUPPLY FAN AND DUCT PRESSURE CONTROL: MODULATE THE SUPPLY FAN VFD TO MAINTAIN DISCHARGE AIR STATIC PRESSURE SETPOINT PROVIDED BY TAB CONTRACTOR AS SENSED BY THE PRESSURE TRANSDUCER PROBE THAT IS LOCATED APPROXIMATELY 2/3 OF THE WAY TOWARD THE END OF THE DUCT. THE EMS SYSTEM SHALL MONITOR VAV BOXES DAMPER POSITION AND ADJUST SUPPLY AIR PRESSURE. IF ALL VAV BOXES ARE ABOVE MINIMUM FLOW AND ALL ZONE SETPOINTS ARE SATISFIED,THE SUPPLY DUCT PRESSURE SHALL BE DECREASE 0.1 IN WG EVERY 15 MINUTES (ADJ.) UNTIL ONE VAV BOX REACHES 95% OPEN AND SPACE TEMPERATURE IS AT SET POINT. IF ANY VAV BOX IS A 100% OPEN AND THE SPACE TEMPERATURE IS 2 °F (ADJ.) ABOVE SET POINT, INCREASE SUPPLY PRESSURE 0.1 IN WC EVERY 5 MINUTES UNTIL IT REACHES THE PRESSURE SET POINT. WAIT 1 HOUR (ADJ) TO REPEAT SEQUENCE.

LOW LIMIT PROTECTION: SHOULD THE MIXED AMBIENT AIR TEMPERATURE DROP TO 38°F (ADJ.) AS SENSED BY TS-3 OPEN THE COOLING VALVE (V-1) 100% TO PREVENT FREEZING THE COIL. A SIGNAL SHALL BE SENT TO THE CHILLER PLANT FOR PUMP START UP.

OUTSIDE AIR CONTROL: DURING THE OCCUPIED MODE MODULATE BOTH THE OUTSIDE AIR DAMPER AND THE RETURN AIR DAMPER TO MAINTAIN OUTSIDE AIR SENSED BY AIRFLOW MONITORING STATION. DO NOT ALLOW RA DAMPER TO THROTTLE LOWER THAN 20% OPEN.

SMOKE CONTROL: SHOULD PRODUCTS OF COMBUSTION BE DETECTED BY THE SUPPLY AIR SMOKE DETECTOR (BY OTHERS), THE SUPPLY FAN SHALL BE DE-ENERGIZED BY THE FIRE ALARM SYSTEM. AIR HANDLING UNIT SHALL AUTOMATICALLY BE RELEASED TO SCHEDULED OPERATING MODE ONCE THE FIRE ALARM IS RESET, MANUAL RESET ARE NOT ACCEPTABLE.

FAN STATUS: THE EMS SHALL MONITOR THE VFD STATUS, SHOULD THE SUPPLY FAN BE COMMANDED ON AND AN OFF STATUS IS SENSED, AN ALARM SHALL BE GENERATED AT THE EMS.

UNOCCUPIED HUMIDITY RESET: SHOULD ROOM HUMIDITY SENSOR RISE ABOVE 60% RH (ADJ.) FOR 1 HOUR (ADJ.) ACTIVATE THE AHU AND MODULATE THE COOLING COIL VALVE V-1 TO MAINTAIN 50°F (ADJ.) AS SENSED BY TS-4 AND THE ZONE TERMINAL UNITS SHALL REHEAT TO MAINTAIN SPACE TEMPERATURE. THE OUTSIDE AIR DAMPERS SHALL REMAIN CLOSED IN THIS MODE. AFTER 1 HOUR (ADJ.) OR ONCE THE RH DROPS AT THE ZONE VAV RH SENSOR TO BELOW 55% RH, RETURN ALL UNITS TO UNOCCUPIED MODE OF OPERATION.

OCCUPIED HUMIDITY RESET: SHOULD ROOM HUMIDITY SENSOR RISE ABOVE 60% RH (ADJ) FOR 1 HOUR (ADJ). RESET THE COOLING COIL DISCHARGE AIR SETPOINTS DOWN TO 50°F(ADJ.) AS SENSED BY TS-4. THE ZONE TERMINAL UNIT SHALL REHEAT TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. AFTER 1 HOUR (ADJ) OR ONCE THE RH DROPS AT THE SPACE RH SENSOR TO BELOW 55% RH, RETURN THE AHU TO NORMAL DISCHARGE AIR SETPOINT.

EXHAUST FAN CONTROL:

1. DESCRIPTION: EXHAUST FAN IS CONSTANT VOLUME WITH A MAGNETIC MOTOR STARTER; EXHAUST FAN SHALL BE SCHEDULED TO OPERATE DURING OCCUPIED HOURS WITH AHU UNLESS NOTED TO OPERATE CONTINUOUSLY. WHEN SCHEDULED ON BY THE EMS, THE SHUTOFF DAMPER RELATED TO THE EF SHALL OPEN AND THE FAN SHALL START AND RUN CONTINUOUSLY.
2. FAN CONTROL: WHEN THE HAND-OFF-AUTO (H-O-A) SWITCH INITIATES A START SIGNAL THROUGH THE "HAND" POSITION, OR THE EMS INITIATES A START SIGNAL WITH THE H-O-A IN THE "AUTO" POSITION, THE FAN SHALL START AND RUN CONTINUOUSLY. WHEN THE H-O-A SWITCH INITIATES A STOP SIGNAL THROUGH THE "OFF" POSITION, OR THE EMS INITIATES A STOP SIGNAL WITH THE H-O-A IN THE "AUTO" POSITION, THE FAN SHALL STOP.
   a. PROVIDE POSITIVE FAN OPERATIONAL STATUS THROUGH A CURRENT SENSING RELAY AT FAN MOTOR STARTER.

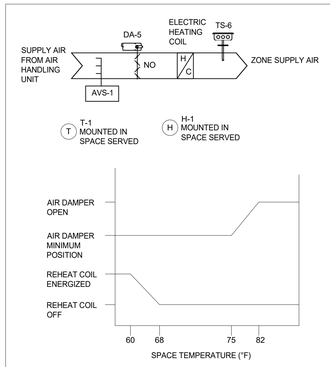
VARIABLE VOLUME AIR TERMINAL VALVE – SEQUENCE OF OPERATION

A. MODES OF OPERATION:

1. PROVIDE FOR AIR TERMINAL VALVES, THREE OPERATIONAL MODES: OCCUPIED MODE, UNOCCUPIED MODE, AND NIGHT SET-UP/BACK. ALL NORMAL OPERATING MODES SHALL BE COMMANDED BY THE EMS.
2. OCCUPIED MODE: WHEN SCHEDULED BY THE EMS, THE SYSTEM OCCUPIED MODE SHALL BE ENABLED; AIR TERMINAL VALVE CONTROL ALGORITHMS SHALL RESPOND TO THE NORMALLY OCCUPIED BUILDING SET POINTS.
3. UNOCCUPIED MODE: WHEN SCHEDULED BY THE EMS, OR MANUALLY COMMANDED AT THE OPERATOR WORKSTATION, SYSTEM OPERATION SHALL BE DISABLED; AHU OPERATION SHALL BE DISABLED; AIR TERMINAL VALVE DAMPERS AND COIL CONTROL VALVES SHALL ACTUATE TO THEIR RESPECTED NORMAL POSITIONS. THE FAN SHALL STOP AND CONTROL ALGORITHMS DEACTIVATED.
4. NIGHT SET-UP/BACK: WHEN COMMANDED BY THE EMS, THE AIR TERMINAL VALVE CONTROL ALGORITHMS SHALL RESPOND TO THE NIGHT SET-UP/BACK SETPOINTS.

B. DESCRIPTION:
1. EACH AIR TERMINAL VALVE CONSISTS OF AN INLET CONTROL DAMPER, INLET AIR VELOCITY SENSING DEVICE, ELECTRIC HEATING COIL AND UNIT MOUNTED EMS CONTROLLER. UNITS ARE VARIABLE AIR VOLUME DELIVERY WITH MINIMUM AND HEATING AIRFLOW SETPOINTS. AIR TERMINAL VALVE COMPONENTS TO BE FACTORY MOUNTED TO BOX BY MANUFACTURER. ALL CONTROL WIRING CONNECTIONS BY CONTROLS CONTRACTOR.

C. SYSTEM CONTROL:
1. AIR TERMINAL VALVE INLET CONTROL DAMPER SHALL MODULATE OPEN/CLOSED TO MAINTAIN THE AIR VELOCITY SET POINT OF THE EMS CONTROLLER, BASED ON THE INPUT OF THE AIR VALVE INLET VELOCITY SENSOR. THE AIR VALVE CONTROLLER SHALL RESET THE VELOCITY SET POINT TO MAINTAIN THE ROOM TEMPERATURE SET POINT SELECTED AT THE ROOM SENSOR OR OPERATORS WORKSTATION. THE AIR TERMINAL VALVE DAMPER SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE. AS SPACE TEMPERATURE DROPS TO THE SET POINT, THE INLET AIR DAMPER SHALL CLOSE TO THE MINIMUM AIR QUANTITY VALVE SCHEDULED. AS SPACE TEMPERATURE CONTINUES TO DROP THE ELECTRIC HEATING COIL SHALL MODULATE TO MAINTAIN THE HEATING SET POINT. SET POINTS, DEADBANDS, AND THROTTLING RANGES SHALL BE AS INDICATED. COORDINATE MAXIMUM, MINIMUM AND HEATING AIRFLOW SET POINTS WITH SCHEDULES ON CONTRACT DRAWINGS.
   a. PROVIDE A ROOM TEMPERATURE AND HUMIDITY SENSOR FOR EACH, AT LOCATION INDICATED ON FLOOR PLANS. FURNISH WITH SET POINT ADJUSTMENT, TEMPERATURE INDICATION AND UNOCCUPIED OVERRIDE MOMENTARY CONTACT PUSH BUTTON.
   b. PROVIDE RESTRICTION ADJUSTMENT OF ROOM TEMPERATURE SENSOR RANGE AT THE EMS WORKSTATION COMPUTER AT A MAXIMUM OF 3°F. SETPOINTS SHALL BE 75°F COOLING, 70°F HEATING. (RANGES SHALL BE 74°F TO 77°F COOLING, 68°F TO 71°F HEATING).



VARIABLE VOLUME AIR TERMINAL VALVE

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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:

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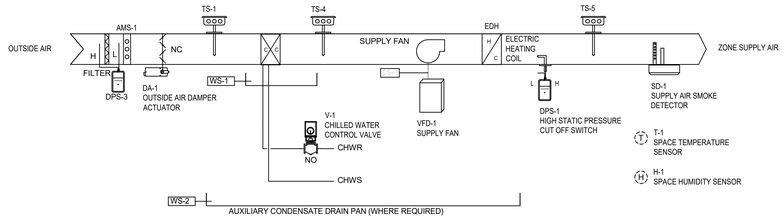
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MECHANICAL CONTROL DRAWINGS

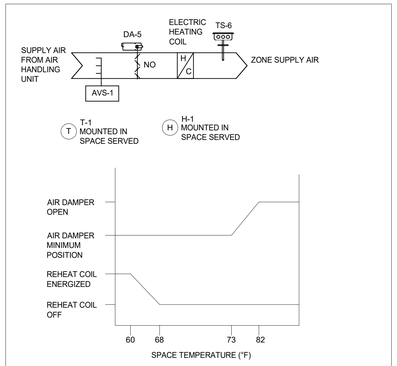
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M-602

100% OA UNIT



CONSTANT VOLUME 100% OUTSIDE AIR UNIT CONTROL DIAGRAM
DOAS-1-1



VARIABLE VOLUME AIR TERMINAL VALVE
NTS

MULTI-ZONE VAV AHU SEQUENCE OF OPERATION

UNOCCUPIED: WHEN THE BUILDING IS INDEXED FOR UNOCCUPIED OPERATION, ALL MOTORIZED DAMPERS AND CONTROL VALVES SHALL MODULATE TO THEIR NORMAL POSITIONS AND THE SUPPLY AND ASSOCIATED EXHAUST FANS SHALL STOP. ALL BI-POLAR IONIZATION BARS SHALL BE DE-ENGERGIZED.

UNOCCUPIED OVERRIDE: AN OVERRIDE MODE SHALL BE PROVIDED THAT WILL PERMIT OPERATION OF THE AIR-HANDLING UNIT TO FEED THE ZONE IN OVERRIDE. WHEN IN OVERRIDE, THE UNIT SHALL OPERATE FOR A PERIOD OF 2 HOURS (ADJ.). THE EMS SHALL CALL FOR THE CHILLER TO OPERATE.

NIGHT SET-BACK: THE SPACE TEMPERATURE SENSOR SHALL SIGNAL THE AIR HANDLING UNIT START WHEN A SPACE TEMPERATURE DROPS TO 60°F (ADJ.) AND STOP WHEN ALL ZONES REACH 64°F (ADJ.) THE UNIT SHALL OPERATE AS DESCRIBED IN THE WARM-UP MODE.

NIGHT SET-UP: THE SPACE TEMPERATURE SENSOR SHALL SIGNAL THE AIR HANDLING UNIT TO START WHEN ANY SPACE TEMPERATURE RISES TO 80°F (ADJ.). THE EMS SHALL CALL FOR THE CHILLER TO START. THE UNIT SHALL STOP WHEN ALL TEMPERATURES DROP TO 80°F. THE UNIT SHALL OPERATE AS DESCRIBED UNDER COOL-DOWN MODE.

MORNING COOL DOWN OR WARM UP PERIOD: MAINTAIN THE OUTSIDE AIR CLOSED AND RUN UNIT FOR AN INITIAL PERIOD OF 1 HOUR (ADJ.) PRIOR TO OCCUPANCY WITH A SYSTEM LEARNED MINIMUM. ASSOCIATED EXHAUST AND RELIEF FANS SHALL NOT OPERATE DURING THE COOL DOWN OR WARM UP MODE. THE UNIT SHALL START AND MAINTAIN A DISCHARGE TEMPERATURE OF 55°F (ADJ.), SENSED BY TS-4, DURING COOL-DOWN; DURING WARM UP CHILLED WATER VALVE SHALL BE CLOSED.

OCCUPIED: WHEN THE BUILDING IS INDEXED FOR OCCUPIED OPERATION BY THE EMS, OPEN THE OUTSIDE AIR AND EXHAUST AIR DAMPERS. AFTER DAMPER POSITIONS ARE PROVEN OPEN THE EXHAUST FANS SHALL BE ENERGIZED. AFTER PROOF OF FANS STATUS, TEMPERATURE CONTROL ALGORITHMS SHALL BE ENABLED. BI-POLAR IONIZATION BARS (BPI-1) SHALL ENERGIZE.

TEMPERATURE CONTROL:

COOLING: THE CHILLED WATER CONTROL VALVE SHALL MODULATE TO MAINTAIN A DISCHARGE AIR TEMPERATURE SETPOINT OF 52°F (ADJ) AS SENSED BY TS-4

HEATING: WHEN THE MIXED AIR TEMPERATURE DROPS BELOW 50°F (ADJ.) AS SENSED BY TS-3, MODULATE ELECTRIC HEATING COIL TO MAINTAIN 55°F (ADJ.) SUPPLY AIR DISCHARGE TEMPERATURE AS SENSED BY TS-5.

SUPPLY FAN AND DUCT PRESSURE CONTROL: MODULATE THE SUPPLY FAN VFD TO MAINTAIN DISCHARGE AIR STATIC PRESSURE SETPOINT PROVIDED BY TAB CONTRACTOR AS SENSED BY THE PRESSURE TRANSDUCER PROBE THAT IS LOCATED APPROXIMATELY 2/3 OF THE WAY TOWARD THE END OF THE DUCT. THE EMS SYSTEM SHALL MONITOR VAV BOXES DAMPER POSITION AND ADJUST SUPPLY AIR PRESSURE. IF ALL VAV BOXES ARE ABOVE MINIMUM FLOW AND ALL ZONE SETPOINTS ARE SATISFIED,THE SUPPLY DUCT PRESSURE SHALL BE DECREASE 0.1 IN WG EVERY 15 MINUTES (ADJ.) UNTIL ONE VAV BOX REACHES 95% OPEN AND SPACE TEMPERATURE IS AT SET POINT. IF ANY VAV BOX IS A 100% OPEN AND THE SPACE TEMPERATURE IS 2 °F (ADJ.) ABOVE SET POINT, INCREASE SUPPLY PRESSURE 0.1 IN WC EVERY 5 MINUTES UNTIL IT REACHES THE PRESSURE SET POINT. WAIT 1 HOUR (ADJ) TO REPEAT SEQUENCE.

LOW LIMIT PROTECTION: SHOULD THE MIXED AMBIENT AIR TEMPERATURE DROP TO 38°F (ADJ.) AS SENSED BY TS-3 OPEN THE COOLING VALVE (V-1) 100% TO PREVENT FREEZING THE COIL. A SIGNAL SHALL BE SENT TO THE CHILLER PLANT FOR PUMP START UP.

OUTSIDE AIR CONTROL: DURING THE OCCUPIED MODE MODULATE BOTH THE OUTSIDE AIR DAMPER AND THE RETURN AIR DAMPER TO MAINTAIN OUTSIDE AIR SENSED BY AIRFLOW MONITORING STATION. DO NOT ALLOW RA DAMPER TO THROTTLE LOWER THAN 20% OPEN.

SMOKE CONTROL: SHOULD PRODUCTS OF COMBUSTION BE DETECTED BY THE SUPPLY AIR SMOKE DETECTOR (BY OTHERS), THE SUPPLY FAN SHALL BE DE-ENERGIZED BY THE FIRE ALARM SYSTEM. AIR HANDLING UNIT SHALL AUTOMATICALLY BE RELEASED TO SCHEDULED OPERATING MODE ONCE THE FIRE ALARM IS RESET. MANUAL RESET ARE NOT ACCEPTABLE.

FAN STATUS: THE EMS SHALL MONITOR THE VFD STATUS. SHOULD THE SUPPLY FAN BE COMMANDED ON AND AN OFF STATUS IS SENSED, AN ALARM SHALL BE GENERATED AT THE EMS.

UNOCCUPIED HUMIDITY RESET SHOULD ROOM HUMIDITY SENSOR RISE ABOVE 60% RH (ADJ.) FOR 1 HOUR (ADJ.) ACTIVATE THE AHU AND MODULATE THE COOLING COIL VALVE V-1 TO MAINTAIN 50°F (ADJ.) AS SENSED BY TS-4 AND MODULATE THE ZONE TERMINAL REHEAT COIL TO MAINTAIN A SPACE TEMPERATURE OF 73°F (ADJ.),. THE OUTSIDE AIR DAMPERS SHALL REMAIN CLOSED IN THIS MODE. AFTER 1 HOUR (ADJ.) OR ONCE THE RH DROPS AT THE ZONE VAV RH SENSOR TO BELOW 55% RH, RETURN ALL UNITS TO UNOCCUPIED MODE OF OPERATION.

OCCUPIED HUMIDITY RESET SHOULD ROOM HUMIDITY SENSOR RISE ABOVE 60% RH (ADJ) FOR 1 HOUR (ADJ), RESET THE COOLING COIL DISCHARGE AIR SETPOINTS DOWN TO 50°F(ADJ.) AS SENSED BY TS-4 AND MODULATE THE ZONE TERMINAL REHEAT TO MAINTAIN A SPACE TEMPERATURE OF 73°F (ADJ.). AFTER 1 HOUR (ADJ) OR ONCE THE RH DROPS AT THE SPACE RH SENSOR TO BELOW 55% RH, RETURN THE AHU TO NORMAL DISCHARGE AIR SETPOINT.

EXHAUST FAN CONTROL:

1. DESCRIPTION: EXHAUST FAN IS CONSTANT VOLUME WITH A MAGNETIC MOTOR STARTER. EXHAUST FAN SHALL BE SCHEDULED TO OPERATE DURING OCCUPIED HOURS WITH AHU UNLESS NOTED TO OPERATE CONTINUOUSLY. WHEN SCHEDULED ON BY THE EMS, THE SHUTOFF DAMPER RELATED TO THE EF SHALL OPEN AND THE FAN SHALL START AND RUN CONTINUOUSLY.
2. FAN CONTROL: WHEN THE HAND-OFF-AUTO (H-O-A) SWITCH INITIATES A START SIGNAL THROUGH THE "HAND" POSITION, OR THE EMS INITIATES A START SIGNAL WITH THE H-O-A IN THE "AUTO" POSITION, THE FAN SHALL START AND RUN CONTINUOUSLY. WHEN THE H-O-A SWITCH INITIATES A STOP SIGNAL THROUGH THE "OFF" POSITION, OR THE EMS INITIATES A STOP SIGNAL WITH THE H-O-A IN THE "AUTO" POSITION, THE FAN SHALL STOP.
   a. PROVIDE POSITIVE FAN OPERATIONAL STATUS THROUGH A CURRENT SENSING RELAY AT FAN MOTOR STARTER.

VARIABLE VOLUME AIR TERMINAL VALVE – SEQUENCE OF OPERATION

A. MODES OF OPERATION:
   1. PROVIDE FOR AIR TERMINAL VALVES, THREE OPERATIONAL MODES: OCCUPIED MODE, UNOCCUPIED MODE, AND NIGHT SET-UP/BACK. ALL NORMAL OPERATING MODES SHALL BE COMMANDED BY THE EMS.
   2. OCCUPIED MODE: WHEN SCHEDULED BY THE EMS, THE SYSTEM OCCUPIED MODE SHALL BE ENABLED; AIR TERMINAL VALVE CONTROL ALGORITHMS SHALL RESPOND TO THE NORMALLY OCCUPIED BUILDING SET POINTS.
   3. UNOCCUPIED MODE: WHEN SCHEDULED BY THE EMS, OR MANUALLY COMMANDED AT THE OPERATOR WORKSTATION, SYSTEM OPERATION SHALL BE DISABLED; AHU OPERATION SHALL BE DISABLED; AIR TERMINAL VALVE DAMPERS AND COIL CONTROL VALVES SHALL ACTUATE TO THEIR RESPECTED NORMAL POSITIONS. THE FAN SHALL STOP AND CONTROL ALGORITHMS DEACTIVATED.
   4. NIGHT SET-UP/BACK: WHEN COMMANDED BY THE EMS, THE AIR TERMINAL VALVE CONTROL ALGORITHMS SHALL RESPOND TO THE NIGHT SET-UP/BACK SETPOINTS.

B. DESCRIPTION:
   1. EACH AIR TERMINAL VALVE CONSISTS OF AN INLET CONTROL DAMPER, INLET AIR VELOCITY SENSING DEVICE, ELECTRIC HEATING COIL AND UNIT MOUNTED EMS CONTROLLER. UNITS ARE TO OPERATE AS CONSTANT VOLUME AIRFLOW AIR TERMINAL VALVE COMPONENTS TO BE FACTORY MOUNTED TO BOX BY MANUFACTURER. ALL CONTROL WIRING CONNECTIONS BY CONTROLS CONTRACTOR.

C. SYSTEM CONTROL:
   1. AIR TERMINAL VALVE INLET CONTROL DAMPER SHALL OPEN/CLOSED TO MAINTAIN THE CONSTANT CFM SET POINT OF THE EMS CONTROLLER, BASED ON THE INPUT OF THE AIR VALVE INLET VELOCITY SENSOR, AS SPACE TEMPERATURE DROPS THE ELECTRIC HEATING COIL SHALL MODULATE TO MAINTAIN THE HEATING SET POINT. SET POINTS, DEADBANDS, AND THROTTLING RANGES SHALL BE AS INDICATED. COORDINATE MAXIMUM, MINIMUM AND HEATING AIRFLOW SET POINTS WITH SCHEDULES ON CONTRACT DRAWINGS.
      a. PROVIDE A ROOM TEMPERATURE AND HUMIDITY SENSOR FOR EACH, AT LOCATION INDICATED ON FLOOR PLANS. FURNISH WITH SET POINT ADJUSTMENT, TEMPERATURE INDICATION AND UNOCCUPIED OVERRIDE MOMENTARY CONTACT PUSH BUTTON.
      b. PROVIDE RESTRICTION ADJUSTMENT OF ROOM TEMPERATURE SENSOR RANGE AT THE EMS WORKSTATION COMPUTER AT A MAXIMUM OF 3°F. SETPOINTS SHALL BE 73°F COOLING, 68°F HEATING. (RANGES SHALL BE 73°F TO 76°F COOLING, 68°F TO 71°F HEATING).

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ADG PROJECT NO. 1087

C.o.T. NO. 24-C-00032

PROJECT STATUS:
PERMIT DOCUMENTS

ISSUE DATE:
09/09/2024

REVISIONS:

DRAWN BY: CR
CHECKED BY: CR

TPD HOWARD AVENUE ANNEX BUILDING

MECHANICAL CONTROL DRAWINGS

TRUE PROJECT NORTH:

M-603

FLOW DIAGRAM SYMBOLS LIST:

SYMBOL:	DESCRIPTION
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
D	DRAIN LINE
CW	COLD WATER - POTABLE
	DIRECTION OF FLOW IN PIPE
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
	BALANCING VALVE
	NEEDLE VALVE
	AUTO FLOW BALANCING VALVE
	CONTROL VALVE (TWO-WAY)
	CHECK VALVE
	SAFETY RELIEF VALVE
	FLEXIBLE CONNECTOR
	PRESSURE / TEMPERATURE TEST PLUG
	REDUCER - SEE DETAILS FOR CONCENTRIC/ECCENTRIC
	GLOBE VALVE
	PRESSURE REDUCER VALVE W/CHECK
	REDUCED PRESSURE BACK FLOW PREVENTOR
M	METER
	AUTOMATIC AIR VENT
	SUCTION DIFFUSER WITH SUPPORT FOOT
	* WYE* - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION W/CAP
	THERMOMETER WITH WELL
	MANUAL AIR VENT
	DRAIN VALVE WITH HOSE CONNECTION AND CAP
P	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
	ISOLATION VALVE W/BLIND FLANGE

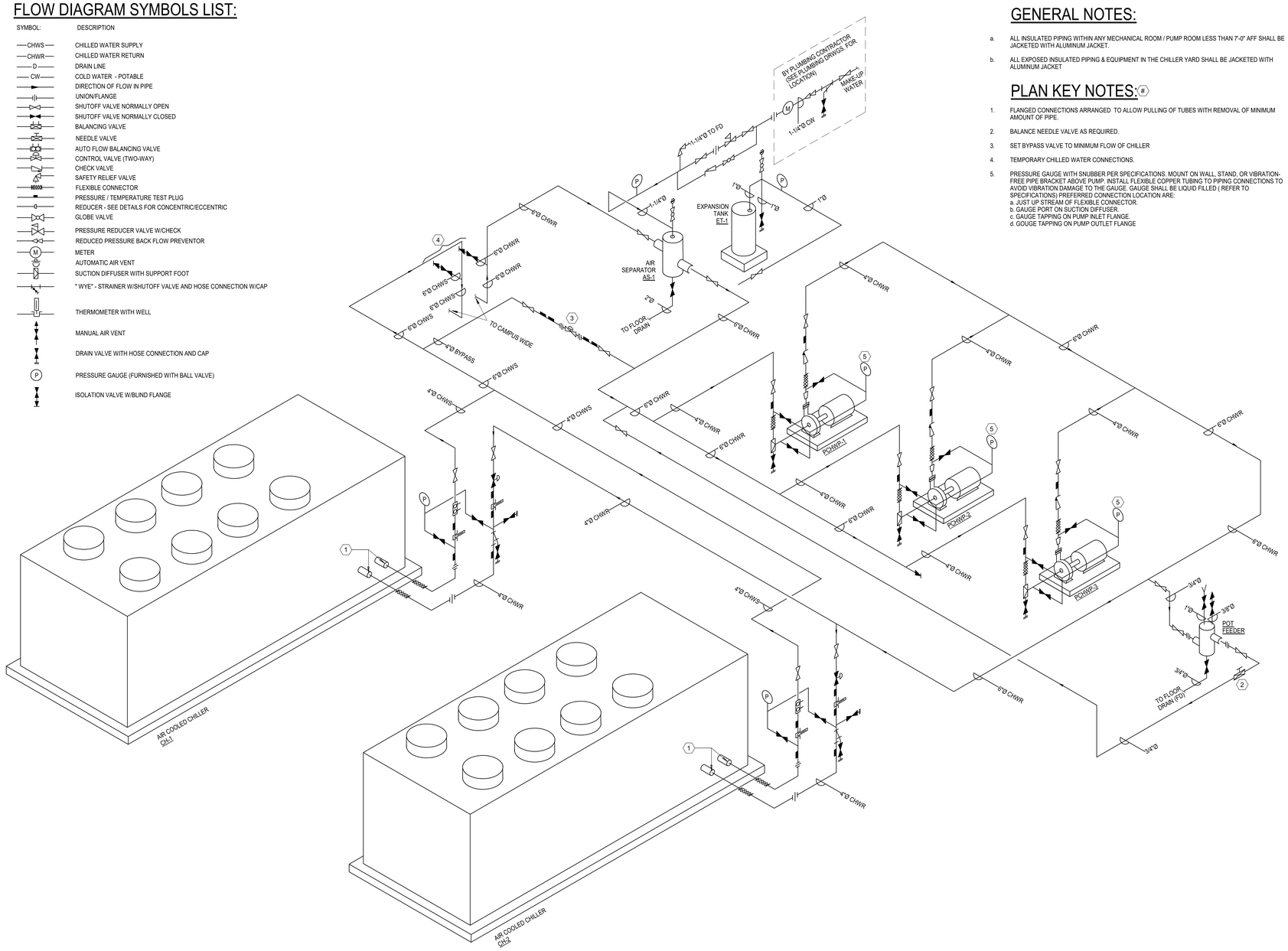
GENERAL NOTES:

a. ALL INSULATED PIPING WITHIN ANY MECHANICAL ROOM / PUMP ROOM LESS THAN 7'-0" AFF SHALL BE JACKETED WITH ALUMINUM JACKET.

b. ALL EXPOSED INSULATED PIPING & EQUIPMENT IN THE CHILLER YARD SHALL BE JACKETED WITH ALUMINUM JACKET

PLAN KEY NOTES: (#)

1. FLANGED CONNECTIONS ARRANGED TO ALLOW PULLING OF TUBES WITH REMOVAL OF MINIMUM AMOUNT OF PIPE.
2. BALANCE NEEDLE VALVE AS REQUIRED.
3. SET BYPASS VALVE TO MINIMUM FLOW OF CHILLER
4. TEMPORARY CHILLED WATER CONNECTIONS.
5. PRESSURE GAUGE WITH SNUBBER PER SPECIFICATIONS. MOUNT ON WALL, STAND, OR VIBRATION-FREE PIPE BRACKET ABOVE PUMP. INSTALL FLEXIBLE COPPER TUBING TO PIPING CONNECTIONS TO AVOID VIBRATION DAMAGE TO THE GAUGE. GAUGE SHALL BE LIQUID FILLED (REFER TO SPECIFICATIONS) PREFERRED CONNECTION LOCATION ARE:
   a. JUST UP STREAM OF FLEXIBLE CONNECTOR.
   b. GAUGE PORT ON SUCTION DIFFUSER.
   c. GAUGE TAPPING ON PUMP INLET FLANGE.
   d. GOUGE TAPPING ON PUMP OUTLET FLANGE



1 M-604 AIR COOLED CHILLER PIPING SCHEMATIC

NOT TO SCALE

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TPD HOWARD AVENUE ANNEX BUILDING

MECHANICAL SCHEMATIC DIAGRAMS

TRUE PROJECT NORTH:

M-604

DIFFUSER, REGISTER, & GRILLE SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	AIRFLOW (CFM)	FACE SIZE	MIN. NECK	NECK VELOCITY (FPM)
A	TITUS	TMS-AA	LOUVERED FACE CEILING SUPPLY	0 - 120	24x24	6"Ø	600
				125 - 210		8"Ø	
				215 - 385		10"Ø	
				390 - 550		12"Ø	
				555 - 750		14"Ø	
				0 - 110	12X12	6"Ø	600
				115 -200		8"Ø	
B	TITUS	T35Q-4	LOUVERED FACE VAV CEILING SUPPLY	0 - 120	24x24	6"Ø	600
				125 - 210		8"Ø	
				215 - 385		10"Ø	
				390 - 550		12"Ø	
C	TITUS	PAR-AA	PERFORATED CEILING RETURN REGISTER	0 - 330	12X12	10X10	-
				0 - 850	24X24	22X22	
D	TITUS	50 F	EGGCRATE CEILING EXHAUST REGISTER	0 - 330	12X12	10X10	-
				0 - 550	12x24	22x10	
				0 - 850	24X24	22X22	
E	TITUS	300 FL	SIDEWALL DOUBLE DEFLECTION SUPPLY	AS SHOWN	-	AS SHOWN	600
F	TITUS	350 FL	SIDEWALL FIXED BLADE RETURN REGISTER	AS SHOWN	-	AS SHOWN	600
G	TITUS	350 FL	SIDEWALL FIXED BLADE EXHAUST REGISTER	AS SHOWN	-	AS SHOWN	600
H	TITUS	TBF-AA-3-6	PANEL MOUNTED NOZZLE DIFFUSER	AS SHOWN	30X12	28X10	300
H	TITUS	FL-15 Jet Throw	LINEAR SLOT SUPPLY	AS SHOWN	AS SHOWN	PLENUM BOX	600
I	TITUS	FL-15 Jet Throw	LINEAR SLOT Return	AS SHOWN	AS SHOWN	PLENUM BOX	600

NOTES:

1. MAXIMUM NC LEVEL OF 25.
2. ALL AIR DEVICES SHALL BE 4-WAY THROW UNLESS NOTED OTHERWISE OR SHOWN ON PLANS WITH DIRECTIONAL ARROWS.
3. DEVICES SHALL BE PROVIDED WITH FACTORY FINISH TO MATCH CEILING OR WALL. MECHANICAL CONTRACTOR SHALL COORDINATE SPECIFIC LOCATIONS AND APPROPRIATE BORDER TYPES AND WITH ARCHITECTURAL DRAWINGS.
4. IF REQUIRED, PROVIDE TOP HAT FOR ALL GRILLES AND DIFFUSERS.
5. PROVIDE REMOTE VOLUME DAMPER FOR DIFFUSERS LOCATED AT GYPSUM BOARD CEILING AND FOR ALL REGISTERS.
6. PROVIDE OPPOSED BLADE VOLUME DAMPER FOR DIFFUSERS "D". DAMPER SHALL BE ALUMINUM CONSTRUCTION.
7. PROVIDE SQUARE TO ROUND THROAT ADAPTERS - ROUND RUNOUT SIZE SAME AS THROAT (I.E. 8X8 USE 8"Ø) FOR ALL CEILING DIFFUSERS OR PROVIDE DIFFUSERS WITH INTEGRAL THROAT CONNECTION.
8. FOR EXHAUST AND RETURN AIR REGISTERS, THE NECK/CFM RANGE REFERS TO THE REGISTER PLENUM BOX INDICATED IN THE CONNECTION DETAIL.

GRAVITY VENTILATORS

MARK	MANUFACTURER AND MODEL	THROAT SIZE	CFM	HOOD SIZE	NOTES
GRV-1	GREENHECK - FGR	22.5X22.5	1,800	39X34	1-5
GRV-2	GREENHECK - FGR	22.5X22.5	1,200	39X34	1-5
GRV-3	GREENHECK - FGR	40X40	5,600	63X57	1-5
GRV-7	GREENHECK - FGR	28X28	2,700	42X51	1-5
GRV-10	GREENHECK - FGR	16X16	800	39X30	1-5
GRV-12	GREENHECK - FGR	16X16	885	39X30	1-5

NOTES:

1. PROVIDE MANUFACTURER ROOF CURB.
2. PROVIDE WITH REMOVABLE / WASHABLE STAINLESS STEEL BIRD SCREEN.
3. PROVIDE FLORIDA PRODUCT APPROVAL AND MIAMI DADE NOA
4. PROVIDE BACKDRAFT DAMPER
5. PROVIDE COATING RATED FOR 10,080 HOUR SALT SPRAY TEST.

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

MARK	SPACE SERVED	SIZE	COOLING CFM		HEAT	HEAT (KW)	STEPS	ELECTRICAL		MANUFACTURER	MODEL	NOTES
			MAX	MIN	CFM			VOLTAGE	PHASE			
SERVES AHU-1-1												
VAV-1-1-1-1	ROOM 109 BAGS & TAG	04	160	35	100	1.00	1	277	1	TRANE	VCEF04	ALL NOTES
VAV-1-1-1-2	ROOM 110 CENTRAL BREAKROOM	05	300	100	150	1.50	1	277	1	TRANE	VCEF05	ALL NOTES
VAV-1-1-1-3	ROOM 100 PUBLIC LOBBY	08	500	125	250	2.50	1	277	1	TRANE	VCEF08	ALL NOTES
VAV-1-1-1-4	ROOMS 107, 111, 112, 130, 131, Corridor C100A & C100B	10	1310	325	650	4.50	3	480	3	TRANE	VCEF10	ALL NOTES
VAV-1-1-1-5	ROOMS 114 & 115	05	340	110	150	1.50	1	277	1	TRANE	VCEF05	ALL NOTES
VAV-1-1-1-6	ROOMS 116, 117, & 118	05	310	80	100	1.00	1	277	1	TRANE	VCEF05	ALL NOTES
VAV-1-1-1-7	ROOMS 136, 137, & 125	06	380	120	150	1.50	1	277	1	TRANE	VCEF06	ALL NOTES
VAV-1-1-1-8	ROOMS 2.14, 2.18	05	300	55	100	1.00	1	277	1	TRANE	VCEF05	ALL NOTES
VAV-1-1-1-9	ROOMS 129, 133, 134, & 135	06	350	50	100	1.00	1	277	1	TRANE	VCEF06	ALL NOTES
VAV-1-1-1-10	ROOMS 126 & 128	04	200	40	50	0.50	1	277	1	TRANE	VCEF04	ALL NOTES
VAV-1-1-1-11	ROOMS 144, 145, 148A	06	350	50	100	1.00	1	277	1	TRANE	VCEF06	ALL NOTES
VAV-1-1-1-12	ROOMS 141, 142, & 143	05	300	55	100	1.00	1	277	1	TRANE	VCEF05	ALL NOTES
SUMMARY			4800	1145	2000							
SERVES AHU-2-1												
VAV-1-1-2-1	ROOM 154	08	875	175	300	3.00	2	277	1	TRANE	VCEF08	ALL NOTES
VAV-1-1-2-2	ROOMS 157A&B, 158, & 159	08	800	200	400	4.00	3	480	3	TRANE	VCEF08	ALL NOTES
VAV-1-1-2-3	ROOMS 160, 161, 162, & CORRIDOR C107	10	1220	300	600	6.00	3	480	3	TRANE	VCEF10	ALL NOTES
VAV-1-1-2-4	ROOM 163	06	360	90	150	1.50	1	277	1	TRANE	VCEF06	ALL NOTES
VAV-1-1-2-5	ROOMS 164, 165, 166, & 167	06	400	100	200	2.00	1	277	1	TRANE	VCEF06	ALL NOTES
VAV-1-1-2-6	ROOMS 171, 172, & 173	05	340	75	150	1.50	1	277	1	TRANE	VCEF05	ALL NOTES
VAV-1-1-2-7	ROOM 169	05	250	60	100	1.00	1	277	1	TRANE	VCEF05	ALL NOTES
SUMMARY			4245	1000	1900							
SERVES DOAS-1-1												
VAV-1-1-3-1	ROOM 153	12	1800	1800	1800	18.00	SCR	480	3	TRANE	VCEF12	ALL NOTES
VAV-1-1-3-2	ROOM 154	12	1800	1800	1800	18.00	SCR	480	3	TRANE	VCEF12	ALL NOTES
VAV-1-1-3-3	ROOMS 150 & 150A	06	475	475	475	5.00	3	480	3	TRANE	VCEF06	ALL NOTES
VAV-1-1-3-4	ROOMS 149A & B	06	400	400	400	4.00	3	277	3	TRANE	VCEF06	ALL NOTES
VAV-1-1-3-5	ROOM 148	06	400	400	400	4.00	3	277	3	TRANE	VCEF06	ALL NOTES
VAV-1-1-3-6	ROOM 147	06	400	400	400	4.00	3	277	3	TRANE	VCEF06	ALL NOTES
VAV-1-1-3-7	ROOM 146	05	250	250	250	2.50	1	277	1	TRANE	VCEF05	ALL NOTES
VAV-1-1-3-8	ROOMS 127 & 139	06	400	400	400	4.00	3	277	3	TRANE	VCEF06	ALL NOTES
VAV-1-1-3-9	ROOMS 138A & B	05	300	300	300	3.00	2	277	1	TRANE	VCEF05	ALL NOTES
VAV-1-1-3-10	ROOM 113	10	1200	1200	1200	12.00	SCR	480	3	TRANE	VCEF10	ALL NOTES
VAV-1-1-3-11	ROOM 113	08	600	600	600	6.00	3	480	3	TRANE	VCEF08	ALL NOTES
VAV-1-1-3-12	ROOM 124	08	600	600	600	6.00	3	480	3	TRANE	VCEF08	ALL NOTES
VAV-1-1-3-13	ROOMS 119B, 119C & 120	10	1300	1300	1300	13.00	SCR	480	3	TRANE	VCEF10	ALL NOTES
VAV-1-1-3-14	ROOMS 104 & 155	05	325	325	325	3.00	2	277	1	TRANE	VCEF05	ALL NOTES
VAV-1-1-3-15	ROOM 156	14	2000	2000	2000	20.00	SCR	480	3	TRANE	VCEF14	ALL NOTES
VAV-1-1-3-16	ROOM 175	10	1200	1200	1200	12.00	SCR	480	3	TRANE	VCEF10	ALL NOTES
SUMMARY			13450	13450	13450							

NOTES:

1 PROVIDE INTEGRAL FUSED DOOR-LOCKING DISCONNECT.
2 PROVIDE CONTROL TRANSFORMER AND SINGLE POINT POWER CONNECTION.
3 PROVIDE AIR FLOW SWITCH FOR ELECTRIC HEAT.
4 INCLUDES 0.25" ALLOWANCE FOR DOWNSTREAM DUCT STATIC.
5 PROVIDE VAV BOXES WITH DISCHARGE TEMPERATORE SENSOR. SENSOR SHALL BE COMPATIBLE WITH DDC SYSTEM.
6 MAXIMUM RADIATED AND DISCHARGE NC LEVEL OF 30 AT 1.5 IN.WG. INLET PRESSURE.
7 ALL RUNOUT SHALL EQUAL CONNECTION SIZE UNLESS OTHERWISE NOTED.
8 VAV BOXES SHALL BE DOUBLE WALL CONSTRUCTION, NO INTERNAL LINER IS PERMITTED.
9 VAV BOXES SHALL HAVE MINIMUM 1 YEAR FULL PARTS AND LABOR WARRANTY.
10 UNIT SHALL HAVE MINIMUM 5 YEAR FULL PARTS AND LABOR WARRANTY.

HYDRONIC PUMP SCHEDULE

MARK	SERVES	FLOW (GPM)	HEAD (FT) MAX	IMPELLER DIA.	WEIGHT (LBS)	ELECTRICAL				MANUFACTURER	MODEL	REMARKS
						HP	RPM	VOLTAGE	PHASE			
PCHW-1	CHILLER	155	90	9.6"	735	10	1750	460	3	TACO	FI2511D	1-5
PCHW-2	CHILLER	155	90	9.6"	735	10	1750	460	3	TACO	FI2511D	1-5
PCHW-3	CHILLER	155	90	9.6"	735	10	1750	460	3	TACO	FI2511D	1-5

NOTES:

1. PROVIDE PUMPS WITH VFD FOR VARIABLE PRIMARY CONTROL
2. PROVIDE INERTIA BASE WITH SPRING ISOLATION
3. MOTOR SHALL BE NON-OVERLOADING AT ALL POINTS ON THE IMPELLER CURVE. TEFC MOTORS SHALL BE PROVIDED FOR OUTDOOR APPLICATIONS AND ODP FOR INDOOR
4. IMPELLER SHALL BE NO GREATER THAN 85% OF THE MAXIMUM PUMP IMPELLER
5. PROVIDE AEGIS SHAFT GROUNDING RINGS FOR MOTORS

EXPANSION TANK SCHEDULE

MARK	SERVICE	TYPE	FLUID	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	RELIEF VALVE (PSIG)	DIAMETER (IN)	HEIGHT (IN)	WEIGHT (LBS)	MANUFACTURER	MODEL #	NOTES
ET-1	CHILLED WATER	BLADDER	WATER	23	23	75	20	29	120	TACO	CA60-125	1

NOTES:

1 ASME CERTIFIED.

AIR SEPARATOR SCHEDULE

MARK	SERVICE	GPM	WORKING FLUID	HEAD LOSS (FT)	DIAMETER (IN)	HEIGHT (IN)	WEIGHT (LBS)	MANUFACTURER	MODEL #	REMARKS
AS-1	CHILLED WATER	310	WATER		14	34	240	TACO	4906AD-15	1,2

NOTES:

1. ASME CERTIFIED.
2. AIR SEPERATOR SHALL BE SIZED 2" LARGER THAN IN/OUT CHILLED WATER PIPING SIZE. TRANSITION TO SMALL PIPE SIZE AS REQUIRED.

LOUVERS

MARK	MANUFACTURER	MODEL	SYSTEM	SIZE	FREE AREA (SQ FT)	AIRFLOW (CFM)	FACE VELOCITY (FPM)
L-1-1	GREENHECK	EVH-901D	AHU-1-1	24X18	1.23	800	650
L-1-2	GREENHECK	EVH-901D	AHU-1-2	24X18	1.23	700	569
L-1-3	GREENHECK	EVH-901D	DOAS-1	102X48	19.54	13,450	688

NOTES:

1. PROVIDE AMCA 550 RATING WITH MIAMI DADE NOA WITH LOUVER SUBMITTAL.
2. PROVIDE REMOVABLE WASHABLE BIRD SCREEN.
3. COORDINATE LOUVER COLOR WITH OWNER AND ARCHITECT PRIOR TO PURHCASE.

ELECTRIC DUCT HEATER SCHEDULE

MARK	SERVING	KW	VOLTAGE	PHASE	CONTROL	REMARKS
EDH-1-1	DOAS-1-1	81	460	3	SCR	1-2

NOTES:

1. UL LISTED
2. ALL DUCT HEATERS SHALL BE EQUIPPED WITH FLOW SWITCH
3. SELECTION IS BASED ON HEATRIX

REMARKS:

1. DOOR DISCONNECT SWITCH
2. DUCT HEATER SHALL BE CONTROLLED BY BMS

AIR HANDLING UNIT SCHEDULE

MARK	SPACE SERVED	FAN						MOTOR			ELECTRICAL		CAPACITY (MBH)		CHILLED WATER COIL								MIXING BOX			MANUFACTURER	MODEL	UNIT SIZE (INCHES)	WEIGHT (LBS)	REMARKS
		VFD	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	ESP (IN.WG.)	FAN SIZE (INCHES)	FAN TYPE	NO. OF FANS	RPM	HP/FAN	BHP	RPM	VOLTAGE	PHASE	TOTAL	SENSIBLE	AIR PROPERTIES				WATER PROPERTIES				ROWS	MERV	DAMPER						
																EAT (°F)		LAT (°F)		EWT (°F)	LWT (°F)	FLOW (GPM)	FLUID PRESSURE DROP (FT OF H20)			RETURN AIR	OUTSIDE AIR				
																DB	WB	DB	WB												
AHU 1-1	NORTH, EAST AND SOUTH SIDE OF ME ROOM 108	YES	3,995	700	2.50	16.5	DIRECT DRIVE	1	2652	7.5	7.5	1800	480	3	154.32	108.61	78.23	65.65	52.00	51.53	42	58	19.2	8.6	8	13	YES	YES	TRANE	CSAA008	115.5X50.5X41.3	1439	1-15
AHU 1-2	EAST SIDE OF MECH ROOM 171	YES	4,390	800	2.50	18.25	DIRECT DRIVE	1	2434	7.5	7.50	1800	480	3	176.93	125.77	78.02	65.45	52.00	51.53	42	58	22.0	4.20	6	13	YES	YES	TRANE	CSAA010	115.0X61.5X41.3	1571	1-15
DOAS-1-1	ALL EVIDENCE ROOMS 104, 127, 139, 146, 147, 148, 150, 155, 156, 175	YES	13,450	13,450	2.50	27	DIRECT DRIVE	1	1886	15.0	14.48	1886	480	3	1210.3	644.01	95.00	78.00	52.00	51.90	42	58	150.8	10.14	8	13	NO	NO	TRANE	CSAA030	131.375X93.5X65	3706	1-15

NOTES:

1. AIR HANDLING UNIT SHALL BE DOUBLE WALL CONSTRUCTION.
2. PROVIDE PREMIUM EFFICIENCY MOTORS.
3. PROVIDE TWO WAY SLOPE DOUBLE WALL STAINLESS STEEL DRAIN PANS.
4. PROVIDE FACTORY MIXING BOX.
5. MAXIMUM 12 FINS PER INCH.
6. COOLING COIL FACE VELOCITY SHALL NOT EXCEED 500 FPM.
7. MAX FILTER FACE VELOCITY 500 FPM.
8. ALL MOTORIZED DAMPERS SHALL BE ANIT CORROSIVE TAMCO SERIES-1500 DAMPERS WITH STAINLESS STEEL LINKAGE, BEARINGS, AND AXLE.
9. PROVIDE HINGED ACCESS DOOR ON MIXING BOX, FILTER, COIL ACCESS AND FAN SECTIONS.
10. FACTORY MOTOR POWER WIRING WITHIN UNIT SHALL BE IN CONDUIT. EXPOSED WIRING IS NOT ACCEPTABLE.
11. SELECT MOTORS SO THAT BHP DOES NOT EXCEED 85% OF RATED POWER.
12. PROVIDE AEGIS SHAFT GROUNDING RINGS FOR MOTORS.
13. THE COMPLETE INTERIOR OF THE UNIT SHALL BE COATED WITH LUVATA SALT SPRAY COATING RATED FOR A MINIMUM OF 10,000 HOURS
14. PROVIDE GPS BIPOLAR IONIZATION "NEEDLE POINT" BARS INSTALLED UPSTREAM OF THE COOLING COIL
15. PROVIDE CONDENSATE OVERFLOW SWITCH IN ACCORDANCE WITH FMC SECTION 307.2.3

DUCTLESS MINI SPLIT SYSTEM SCHEDULE - AIR CONDITIONER

MARK	AREA SERVED	MANUFACTURER	COOLING	EFFICIENCY		AIR HANDLER									CONDENSING UNIT										REMARKS
			TOTAL (BTU/HR)	SEER	NOMINAL TONS	MODEL#	SUPPLY (CFM)	MOTOR POWER (W)	COIL EAT (°F)		COIL LAT (°F)		ELECTRICAL		WEIGHT (LBS)	MARK	MODEL #	REFRIGERANT	COMPRESSOR		ELECTRICAL			WEIGHT (LBS)	
									DB	WB	DB	WB	VOLT	PHASE					QTY.	TYPE	VOLT	PHASE	MCA	MOP	
DX 1-1-1	ELECTRICAL ROOM 105	MITSUBISHI	36,000	19.4	3.00	TPKA0A0361KA80A	810	69	90	73	80	67	208/230	1	46	CU 1-1-1	TRUYA0361KA70NA	R410A	1	INVERTED	208/230	1	25	31	211	1-7
DX 1-1-2	ELECTRICAL ROOM 151	MITSUBISHI	36,000	19.4	3.00	TPKA0A0361KA80A	810	69	90	73	80	67	208/230	1	46	CU 1-1-2	TRUYA0361KA70NA	R410A	1	INVERTED	208/230	1	25	31	211	1-7
DX 1-1-3	ELECTRICAL ROOM 171	MITSUBISHI	36,000	19.4	3.0	TPKA0A0361KA80A	810	69	90	73	80	67	208/230	1	46	CU 1-1-3	TRUYA0361KA70NA	R410A	1	INVERTED	208/230	1	25	31	211	1-7
DX 1-1-4	TELECOM 152	MITSUBISHI	36,000	19.4	3.0	TPKA0A0361KA80A	810	69	90	73	80	67	208/230	1	46	CU 1-1-3	TRUYA0361KA70NA	R410A	1	INVERTED	208/230	1	25	31	211	1-7

NOTES:

1. REFRIGERANT LINES AND INSULATION SHALL BE SIZED AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE SUBMITTALS ON INSULATION WITH EQUIPMENT SUBMITTALS.
2. PROVIDE COOLING PROGRAMMABLE THERMOSTAT AND 24 VOLT CONTROL WIRING. THERMOSTAT SHALL HAVE THE SAME NUMBER OF STAGES OF COOLING AS THE UNIT AND DUAL SETPOINT. THERMOSTAT SHALL BE SUPPLIED BY SAME MANUFACTURER AS UNIT.
3. PROVIDE 5 MINUTE TIME DELAY TO PREVENT COMPRESSOR SHORT CYCLING. INSTALL EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.
4. HORIZONTAL UNIT SHALL INCLUDE AN AUXILIARY DRAIN PAN BELOW THE UNIT WITH A WATER SENSING SWITCH (FLOAT SWITCHES ARE NOT ACCEPTABLE). WHEN WATER IN THE DRAIN PAIN RAISES TO THE CONTACT POINT, THE FAN SHALL BE DISABLED AND AN ALARM ISSUED TO THE DDC.
5. PROVIDE 1" THROWAWAY FILTERS
6. PROVIDE CONDENSATE PUMP INTEGRATED TO UNIT.
7. SINGLE POINT OF CONNECTION.
8. PROVIDE CONCRETE BASE PAD FOR CONDENSER.

AIR COOLED CHILLER SCHEDULE

MARK	UNIT OVERVIEW					EVAPORATOR						ELECTRICAL				OPERATING WEIGHT (LB)	MANUFACTURER	MODEL	NOTES
	NOMINAL CAPACITY (TONS)	REFRIGERANT	NPLV (BtuW-/)	FULL LOAD EFFICIENCY (BtuW-/)	NUMBER OF REFRIGERANT CIRCUIT EACH CHILLER	NUMBER OF CONDENSER FANS	NUMBER OF COMPRESSORS	NUMBER OF CAPACITY STEPS	DESIGN EVAP FLOW RATE (GPM)	MAX. EVAP FLOW RATE (GPM)	MIN. EVAP FLOW RATE (GPM)	EWT (°F)	LWT (°F)	TOTAL PD (FT H20)	UNIT POWER (KW)	SINGLE POINT POWER MCA (A)	SINGLE POINT POWER MOP (A)	VOLTAGE /PHASE				
CH-1	110	R-454B	15.37	10.1	2	8	4	4	154.90		154.90	42	58	6.68	123.00	226.00	300.00	480/3	6846	TRANE	CGAM	1-18
CH-2	110	R-454B	15.37	10.1	2	8	4	4	154.90		154.90	42	58	6.68	123.00	226.00	300.00	480/3	6846	TRANE	CGAM	1-18

NOTES:

1. PROVIDE REFRIGERANT ISOLATION VALVES ON INDIVIDUAL COMPRESSORS INTALLED BY MANUFACTURER.
2. CHILLERS TO HAVE A MINIMUM OF TWO INDEPENDENT REFRIGERANT CIRCUITS.
3. CHILLERS TO HAVE AUTO-RESTART IN THE EVENT OF A POWER FAILURE.
4. PROVIDE CROSS THE LINE STARTER. COORDINATE EXACT PERFORMANCE WITH MANUFACTURER.
5. INSTALL MANUFACTURER-PROVIDED DP FLOW SWITCHES IN PIPE AND WIRE TO CONTROL CENTER.
6. PROVIDE CHILLER WITH BACNET
7. MOUNT CHILLER ON 2 INCH THICK ISOLATION PADS PROVIDED WITH CHILLER BY MANUFACTURER.
8. PROVIDE CHILLER ISOLATION VALVES FOR EACH CHILLER.
9. PROVIDE CALIBRATED BALANCING VALVES AT EACH CHILLER.
10. PROVIDE CHILLER WITH FACTORY MOUNTED HAIL GUARD.
11. PROVIDE COMPRESSOR SOUND ATTENUATION PACKAGE AS REQUIRED TO ACHIEVE SOUND LEVELS SCHEDULE
14. 5 YEAR PARTS, LABOR AND REFRIGERANT WARRANTY COVERING ENTIRE MACHINE
13. PROVIDE FACTORY MOUNTED HIGH FAULT CIRCUIT BRAKER AND 65 KVA SHORT CIRCUIT RATING
14. PROVIDE FULL HEIGHT ARCHITECTURAL LOUVERED PANELS
15. PROVIDE WITH CORROSION PROTECTION COATING ON CONDENSER COILS
16. CONDENSER FAN MOTORS SHALL BE ECM TYPE, VARIABLE SPEED
17. INSULATION (ALL COLD PARTS) DESIGNED FOR HIGH HUMIDITY
18. 5 YEAR PARTS, LABOR AND REFRIGERANT WARRANTY COVERING ENTIRE MACHINE

AIR CLEANER

MARK	SYSTEM TYPE	QUANTITY	CFM	MOTOR	ELECTRICAL		MOUNTING	MANUFACTURER	MODEL
				W	VOLTAGE	PHASE			
AC-1	RM. 147 BIOHAZARD W/ PACKAGING	1	430	75	120	1	CEILING	COBALT	SCA14000 2X2
AC-2	RM. 172 STORAGE	1	1171	250	120	1	CEILING	COBALT	SCA14000 2X4
AC-3	RM. 172 STORAGE	1	1171	250	120	1	CEILING	COBALT	SCA14000 2X4
AC-4	RM. 172 STORAGE	1	1171	250	120	1	CEILING	COBALT	SCA14000 2X4
AC-5	RM. 172 STORAGE	1	1171	250	120	1	CEILING	COBALT	SCA14000 2X4
AC-6	RM. 173 STORAGE	1	1171	250	120	1	CEILING	COBALT	SCA14000 2X4

FAN SCHEDULE

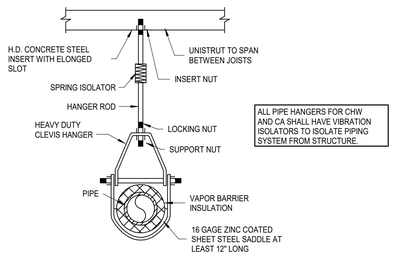
MARK	QTY.	CFM	ESP (IN.WG.)	DRIVE	FAN RPM	MOTOR		ELECTRICAL		MOUNTING	WEIGHT W/ACC'S AND CURB (LBS)	CONTROLS	SPEED CONTROLLER	MANUFACTURER	MODEL	NOTES
						HP	RPM	VOLTAGE	PHASE							
EF-1	1	1800	1.2	DIRECT DRIVE	1528	1	1600	120	1	INLINE	108	INTERLOCK WITH DOAS-1-1	YES	GREENHECK	SQ-160-VG	3,4,7,9,11,16,17
EF-2	1	1400	0.7	DIRECT DRIVE	1454	0.5	1725	120	1	INLINE	70	INTERLOCK WITH DOAS-1-1	YES	GREENHECK	SQ-120-VG	3,4,7,9,11,16,17
EF 3	1	5600	1.6	DIRECT DRIVE	1296	5	1550	480	3	INLINE	226	INTERLOCK WITH DOAS-1-1	YES	GREENHECK	SQ-20-VG	3,4,7,9,11,16,17
EF-4	1	1550	0.13	DIRECT DRIVE	949	1 / 2	1200	120	1	ROOF	89	INTERLOCK WITH DOAS-1-1	YES	GREENHECK	G-140-VG	1-3,6-11,16,17
EF-5	1	500	0.1	DIRECT DRIVE	1366	1 / 6	1725	120	1	ROOF	53	INTERLOCK WITH DOAS-1-1	YES	GREENHECK	G-090-VG	1-3,6-11,16,17
EF-6	1	800	0.11	DIRECT DRIVE	1272	1 / 4	1725	120	1	ROOF	68	INTERLOCK WITH DOAS-1-1	YES	GREENHECK	G-099-VG	1-3,6-11,16,17
EF-7	1	2250	1.6	DIRECT DRIVE	2270	2	2710	208	1	INLINE	104	INTERLOCK WITH DOAS-1-1	YES	GREENHECK	SQ-12-VG	3,4,7,9,11,16,17
EF-8	1	500	0.95	DIRECT DRIVE	2679	1 / 2	3900	120	1	INLINE	57	WALL SWITCH	YES	GREENHECK	SQ-7-VG	3,4,7,9,11,16,17
EF-9	1	600	0.12	DIRECT DRIVE	1363	1 / 6	1725	120	1	ROOF	55	WALL SWITCH	YES	GREENHECK	G-095-VG	1-3,6-11,16,17
EF-10	1	600	0.5	DIRECT DRIVE	2349	1/2	3900	120	1	INLINE	53	INTERLOCK WITH AHU-1-1	YES	GREENHECK	SQ-7-VG	3,4,7,9,11,16,17
EF-11	1	725	0.5	DIRECT DRIVE	1428	1/4	1750	120	1	INLINE	47	INTERLOCK WITH AHU-1-1	YES	GREENHECK	SQ-9-VG	3,4,7,9,11,16,17
EF-12	1	160	0.5	DIRECT DRIVE	1082	41 W	-	120	1	INLINE	38	WALL SWITCH	YES	GREENHECK	CSP-A510-VG	3,4,7,9,11,16,17
EF-13	1	2400	0.25	DIRECT DRIVE	2228	2	1725	460	3	ROOF	326	HOOD SWITCH	YES	GREENHECK	VEKTOR-HI-16	1-3,6-11,16,17

NOTES:

1. PROVIDE 24" ROOF CURB FROM FAN MANUFACTURER.
2. PROVIDE WITH BIRD SCREEN.
3. PROVIDE WITH BACKDRAFT DAMPER.
4. PROVIDE HANGING NEOPRENE ISOLATORS.
5. PROVIDE WITH INTEGRAL GRILLE.
6. PROVIDE WITH HINGED CURB CAP AND CABLES.
7. PROVIDE WITH DISCONNECT SWITCH.
8. PROVIDE 5 MINUTES TIME DELAY SWITCH.
9. PROVIDE VARIABLE SPEED CONTROL.
10. PROVIDE HI-PRO-Z COATING FOR CORROSIVE ENVIRONMENT
11. PROVIDE MIAMI-DADE APPROVAL.
12. PROVIDE ALUMINUM MESH FILTER AND INLET DAMPER.
13. PROVIDE GREASE COLLECTION CUP.
14. PROVIDE WITH EXPLOSION PROOF MOTOR & SPARK RESISTANCE CONSTRUCTION.
15. PROVIDE AEGIS SHAFT GROUNDING RINGS FOR MOTORS
16. MOTOR BHP SHALL NOT EXCEED 85% OF RATED MOTOR HP
17. PROVIDE VARI-GREEN H-O-A CONTROLLER FOR EQUIPMENT INTERLOCKING.

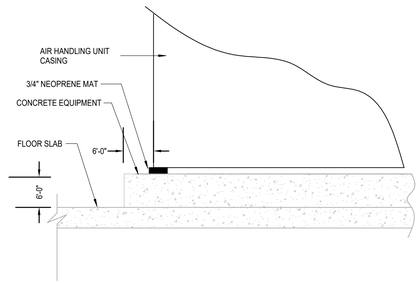
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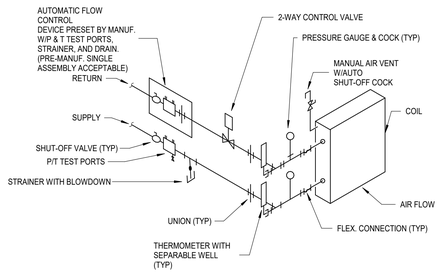
1 M-801 PIPE HANGER DETAIL

NOT TO SCALE



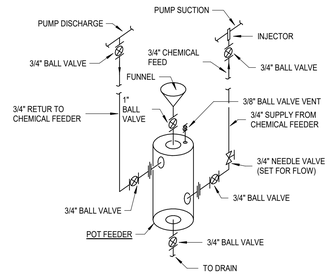
2 M-801 AHU EQUIPMENT PAD DETAIL

NOT TO SCALE



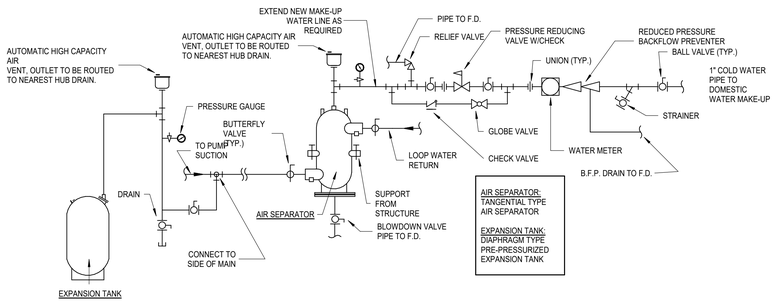
3 M-801 2-WAY PIPING DIAGRAM

NOT TO SCALE



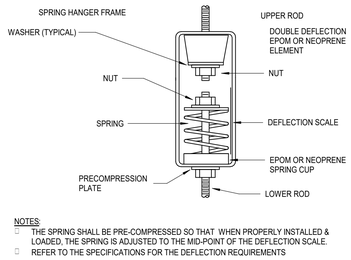
4 M-801 CHEMICAL POT FEEDER

NOT TO SCALE



5 M-801 AIR SEPARATOR/ELIMINATION & EXPANSION TANK PIPING DETAIL

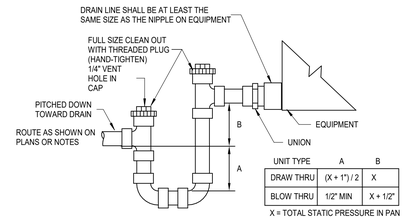
NOT TO SCALE



NOTES:
1. THE SPRING SHALL BE PRE-COMPRESSED SO THAT WHEN PROPERLY INSTALLED & LOADED, THE SPRING IS ADJUSTED TO THE MID-POINT OF THE DEFLECTION SCALE.
2. REFER TO THE SPECIFICATIONS FOR THE DEFLECTION REQUIREMENTS

6 M-801 SPRING ISOLATED HANGER FOR PIPE OR EQUIPMENT

NOT TO SCALE

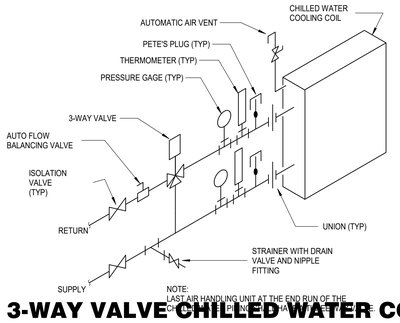


UNIT TYPE	A	B
DRAW THRU	(X + 1") / 2	X
BLOW THRU	1/2" MIN	X + 1/2"

X = TOTAL STATIC PRESSURE IN PAN

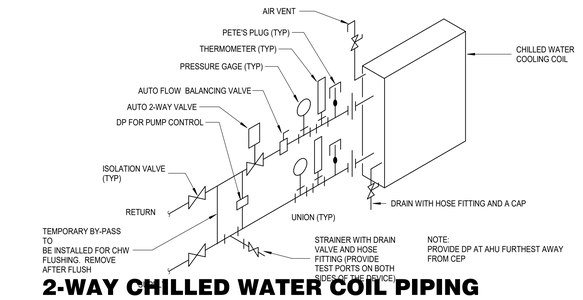
7 M-801 CONDENSATE DRAIN TRAP DETAIL

NOT TO SCALE



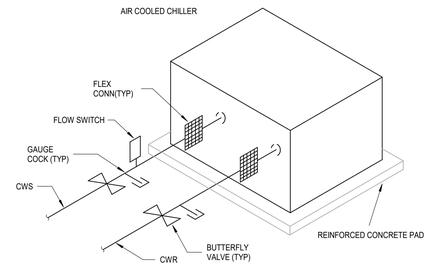
10 M-801 3-WAY VALVE CHILLED WATER COIL PIPING DIAGRAM

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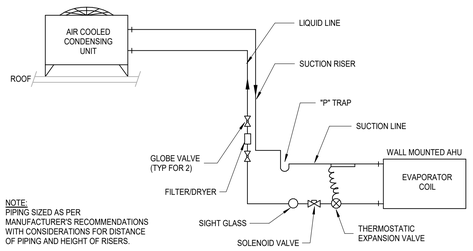
9 M-801 2-WAY CHILLED WATER COIL PIPING DIAGRAM

NOT TO SCALE



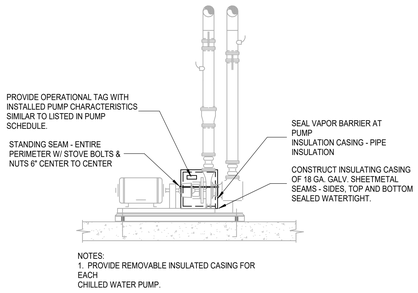
8 M-801 CHILLED PIPING SCHEMATIC

NOT TO SCALE



13 M-801 TYPICAL SPLIT SYSTEM PIPING DETAIL

NOT TO SCALE



NOTES:
1. PROVIDE REMOVABLE INSULATED CASING FOR EACH CHILLED WATER PUMP.

12 M-801 END SUCTION PUMP INSULATION DETAIL

NOT TO SCALE

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BLD-25-0517072
9/3/2025

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REVIEWED FOR CODE COMPLIANCE

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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:
PERMIT DOCUMENTS

ISSUE DATE:
09/09/2024

REVISIONS:

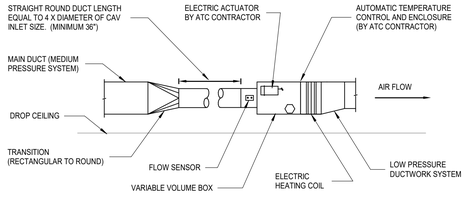
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TPD HOWARD AVENUE ANNEX BUILDING

MECHANICAL DETAILS

TRUE PROJECT NORTH:

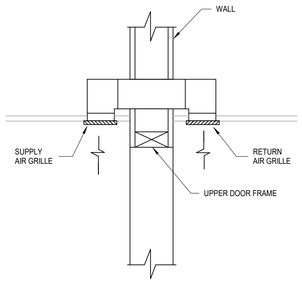
M-801



NOTES:
1. ARRANGE ACCESS TO PERMIT EASY FIELD BALANCE AND MAINTENANCE OF TERMINAL UNIT.
2. MECHANICAL CONTRACTOR SHALL COORDINATE CONTROLS ON LEFT OR RIGHT SIDE AS REQUIRED BY FIELD CONDITIONS.
3. ATC CONTRACTOR SHALL PROVIDE TRANSFORMER FOR EACH VAV TERMINAL. COORDINATE WITH ELECTRICAL CONTRACTOR.

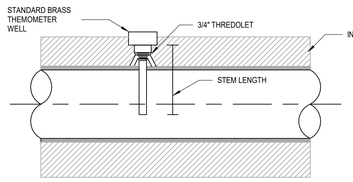
VARIABLE VOLUME TERMINAL UNIT INSTALLATION DETAIL

1 / M-802 NOT TO SCALE



CEILING TRANSFER AIR GRILLE DETAIL

11 / M-802 NOT TO SCALE

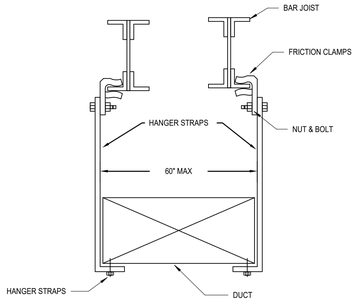


PIPE SIZE	STEM LENGTH
1"-3"	3 1/2"
4"	5 1/4"
5"-6"	6"
8"	8"
10"+	12"

NOTE :
1. PROVIDE EXTENSION NECKS.
2. PROVIDE BRASS PLUGS IN UNUSED WELLS

THERMOMETER WELL DETAIL

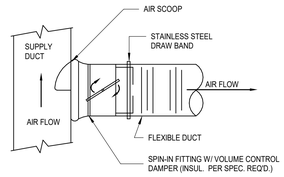
3 / M-802 12" = 1'-0"



DUCT HANGING DETAIL

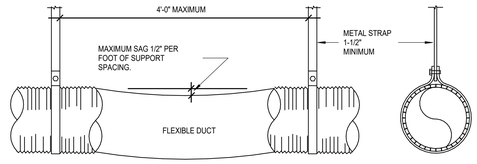
6 / M-802 NOT TO SCALE

NOTE:
PANDUIT TYPE NYLON STRAPS ARE AN ACCEPTABLE METHOD OF FLEXIBLE DUCT ATTACHMENT TO DUCT AND DIFFUSER COLLAR WHEN 2 ARE USED FOR EACH CONNECTION, (ONE BELOW INSULATION AND ONE OVER THE INSULATION), ONLY WHEN PROPER INSTALLATION TOOL IS USED.



TYPICAL FLEX DUCT CONNECTION

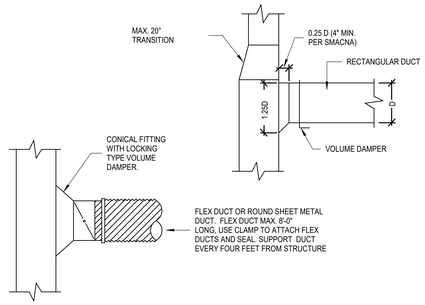
5 / M-802 NOT TO SCALE



NOTES:
1. DUCT SHOULD EXTEND STRAIGHT FOR SEVERAL INCHES FROM A CONNECTION BEFORE BENDING
2. SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR CAUSE OUT OF ROUND SHAPE.

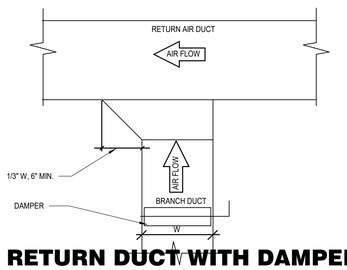
FLEX DUCT SUPPORT

4 / M-802 NOT TO SCALE



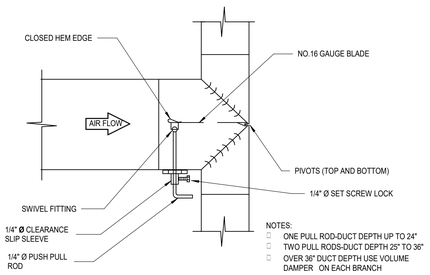
BRANCH DUCT DETAIL

9 / M-802 NOT TO SCALE



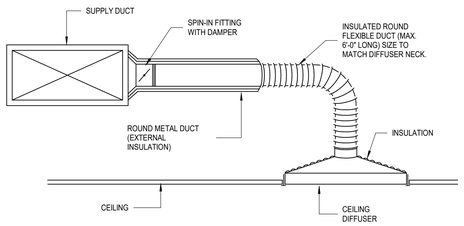
RETURN DUCT WITH DAMPER AT SINGLE BRANCH

8 / M-802 NOT TO SCALE



SUPPLY DUCT WITH SPLITTER DAMPER

7 / M-802 NOT TO SCALE



CEILING DIFFUSER RUNOUT DETAIL

12 / M-802 NOT TO SCALE

PIPING SUPPORT SPACING		
PIPING MATERIAL	**MAXIMUM HORIZONTAL SPACING (feet)**	**MAXIMUM VERTICAL SPACING (feet)**
ABS pipe	4.00000	10c
Aluminum pipe and tubing	10.00000	15.00000
Brass pipe	10.00000	10.00000
Brass tubing, 11/4-inch diameterand smaller	6.00000	10.00000
Brass tubing, 11/2-inch diameterand larger	10.00000	10.00000
Cast-iron pipeb	5.00000	15.00000
Copper or copper-alloy pipe	12.00000	10.00000
Copper or copper-alloy tubing	8.00000	10.00000
CPVC pipe or tubing, 1 inchand smaller	3.00000	10c
CPVC pipe or tubing, 11/4-inchand larger	4.00000	10c
Lead pipe	Continuous	4.00000
PB pipe or tubing	22/3 (32 inches)	4.00000
PE-RT 1 inch and smaller	22/3 (32 inches)	10c
PE-RT 11/4 inches and larger	4.00000	10c
PEX tubing	22/3 (32 inches)	10c
Polypropylene (PP) pipe ortubing, 1 inch and smaller	22/3 (32 inches)	10c
Polypropylene (PP) pipe ortubing, 11/4 inches and larger	4.00000	10c
PVC pipe	4.00000	10c
Steel tubing	8.00000	10.00000
Steel pipe	12.00000	15.00000

NOTE: REMOVE THE DIFFERENT PIPE TYPES AS NEEDED.

PIPING SUPPORT CHART

2 / M-802 NOT TO SCALE

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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:
PERMIT DOCUMENTS

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09/09/2024

REVISIONS:

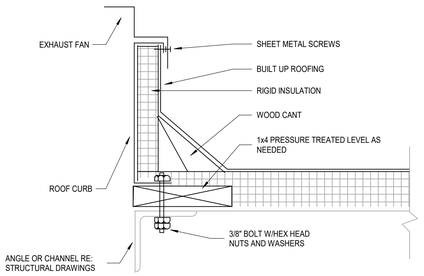
DRAWN BY: **CR**
CHECKED BY: **CR**

TPD HOWARD AVENUE ANNEX BUILDING

MECHANICAL DETAILS

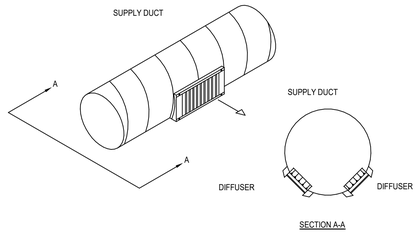
TRUE PROJECT NORTH:

M-802



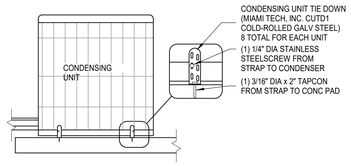
3 M-803 EXHAUST FAN CURB DETAIL

NOT TO SCALE



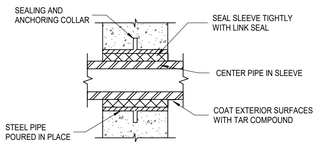
2 M-803 45º ANGLE DIFFUSER

NOT TO SCALE



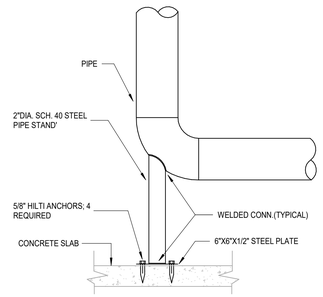
1 M-803 TYPICAL CONDENSING UNIT ANCHORING DETAIL

NOT TO SCALE



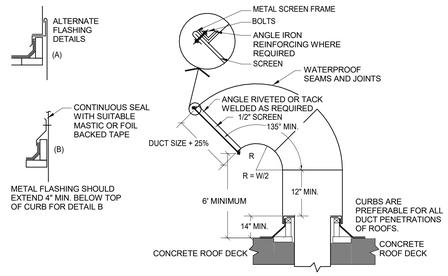
6 M-803 THRU-WALL PIPE

NOT TO SCALE



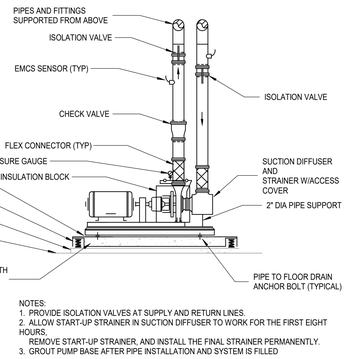
5 M-803 VERTICAL PIPE SUPPORT DETAIL

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4 M-803 EXHAUST GOOSENECK

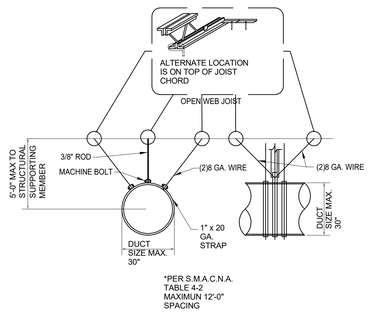
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NOTES:
1. PROVIDE ISOLATION VALVES AT SUPPLY AND RETURN LINES.
2. ALLOW START-UP STRAINER IN SUCTION DIFFUSER TO WORK FOR THE FIRST EIGHT HOURS.
   REMOVE START-UP STRAINER, AND INSTALL THE FINAL STRAINER PERMANENTLY.
3. GROUT PUMP BASE AFTER PIPE INSTALLATION AND SYSTEM IS FILLED

7 M-803 CHILLED WATER PUMP

NOT TO SCALE



*PER S.M.A.C.N.A. TABLE 4-2 MAXIMUN 12'-0" SPACING

8 M-803 DUCT HANGING DETAIL

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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

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DRAWN BY: **CR**

CHECKED BY: **CR**

TPD HOWARD AVENUE ANNEX BUILDING

MECHANICAL DETAILS

TRUE PROJECT NORTH:

M-803

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ABBREVIATIONS

CW	COLD WATER
HW	HOT WATER
HWR	HOT WATER RETURN
DWV	DRAIN, WASTE, AND VENT
W.	WASTE
GR	GREASE WASTE
FM	FORCE MAIN
COND.	CONDENSATE
V.	VENT
VTR	VENT THRU ROOF
CO	CLEANOUT
WCO	WALL CLEANOUT
FCO	FLOOR CLEANOUT
ECO	EXTERIOR CLEANOUT (GRADE)
B.V.	BALANCING VALVE
AB.	ABOVE
DN.	DOWN
CLG.	CEILING
O/H	OVERHEAD
MIN.	MINIMUM
C.P.	CHROME PLATED
S.S.	STAINLESS STEEL
SL.	SLOPE
GA.	GAUGE
BLDG.	BUILDING
CONN.	CONNECTION
A.H.A.P.	AS HIGH AS POSSIBLE
A.F.F.	ABOVE FINISHED FLOOR
B.F.F.	BELOW FINISHED FLOOR
F.F.E.	FINISHED FLOOR ELEVATION
I.E.	INVERT ELEVATION
FD	FLOOR DRAIN
AD	AREA DRAIN
FS	FLOOR SINK
RD	ROOF DRAIN
CD	CONDENSATE DRAIN
CR	CONDENSATE RECEPTOR
HB	HOSE BIBB

PLUMBING SYSTEM LEGEND

SYMBOL	DESCRIPTION	ABBREVIATION
	SANITARY SEWER ABOVE GRADE	SS
	SANITARY SEWER BELOW GRADE	SS
GR	GREASE WASTE	GR
V	VENT PIPING	V
CD	CONDENSATE DRAIN PIPING	CD
ST	STORM PIPING ABOVE GRADE	ST
ST	STORM PIPING BELOW GRADE	ST
STO	STORM OVERFLOW PIPING ABOVE GRADE	STO
STO	STORM OVERFLOW PIPING BELOW GRADE	STO
CW	COLD WATER PIPING	CW
RW	RECLAIMED WATER PIPING	RW
HW	HOT WATER PIPING (110)	HW
TW	TEMPERED WATER PIPING	TW
HWR	HOT WATER RETURN PIPING	HWR
G	GAS PIPING	G
A	COMPRESSED AIR PIPING	A

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	ABBREVIATION
	CHECK VALVE	CV
	GATE VALVE	GV
	BALL VALVE	BV
SV	SOLENOID VALVE	SV
	SHUT-OFF COCK	-
	BALANCING VALVES	BV
	PRESSURE REGULATING VALVE	PRV
	ELBOW TURNED DOWN	DN
	ELBOW TURNED UP	UP
	TEE TURNED UP	UP
	P-TRAP	-
	TEE TURNED DOWN	DN
VTR	VENT THROUGH ROOF	VTR
	UNION	-
	PLUG OR WALL CLEAN OUT	CO
	FLOOR CLEAN OUT	FCO
	EXTERIOR CLEAN OUT	ECO
	PRESSURE & TEMPERATURE RELIEF VALVE	T & P
	FLOOR DRAIN	FD
	PROMENADE DRAIN	AD
	FLOOR SINK	FS
	ROOF DRAIN	RD
	WALL HYDRANT	WH
	HOSE BIBB	HB
	SHOCK ARRESTER	SA
	CIRCULATING PUMP	CP
	PRESSURE GAGE	-
	THERMOMETER	-
	EXPANSION LOOP	-
	REDUCED PRESSURE ZONE ASSEMBLY	RPZA
	GREASE TRAP	-
M	WATER METER	WM
	FLOW ARROW	-
XX-1	PLUMBING FIXTURE DESIGNATION	XX-1
EL (-15'-0")	FLOOR SLAB ELEVATION	ELEV
	POINT OF CONNECTION	POC
	POINT OF DISCONNECT/DEMOLITION	POD
# PXXX / # PXXX	INDICATES RISER/DETAIL NUMBER, SHEET FOUND, AND RISER VIEW, (IF APPLICABLE)	-

PLUMBING GENERAL NOTES

1. REFERENCE THE SPECIFICATIONS FOR MATERIALS AND EQUIPMENT STANDARDS.
2. THE INSTALLATION OF THE PLUMBING SYSTEMS AND EQUIPMENT SHALL COMPLY WITH ALL APPLICABLE CODES INCLUDING BUT NOT LIMITED TO STATE AND LOCAL CODES.
3. THE CONTRACTOR SHALL COORDINATE THE INTERRUPTION OF ALL UTILITY SERVICES WITH OWNER'S REPRESENTATIVE. PROVIDE A MINIMUM OF FIVE WORKING DAYS ADVANCED NOTICE, OR PER PLUMBING SPECIFICATIONS, OF SCHEDULED UTILITY DISCONNECTION.
4. PROVIDE ANY ADDITIONAL FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN PROPER CLEARANCES. COORDINATE WITH ALL TRADES AND OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.
5. CONCEAL PIPING ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED.
6. FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS, AND FLOORS WITH LISTED ASSEMBLIES AND SLEEVE WHERE REQUIRED. FIRESTOP ASSEMBLIES SHALL BE EQUAL OR EXCEED THE RATING OF THE WALL OR FLOOR; ALL FIRESTOP ASSEMBLIES SHALL MEET ASTM E-814 REQUIREMENTS. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES AND ADDITIONAL PIPE PENETRATION REQUIREMENTS.
7. PROVIDE ACCESS PANELS TO ALL VALVES LOCATED WITHIN CHASES OR NON-ACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES. ALL VALVES SHALL BE ACCESSIBLE.
8. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
9. INSTALL CODE REQUIRED FIXED AIR GAPS ON ALL INDIRECT WASTE CONNECTIONS SERVING EQUIPMENT, AND APPLIANCES.
10. PROVIDE CLEANOUTS ON ALL SANITARY DRAIN & WASTE, STORM DRAIN, AND CONDENSATE DRAIN PIPING AS INDICATED ON THE DRAWINGS, AND AS REQUIRED BY LOCAL AND STATE CODES. INSTALL CLEANOUTS IN ACCESSIBLE LOCATIONS. COORDINATE TOP OF FLOOR/GRADE CLEANOUT ELEVATION WITH TOP OF FINISHED GRADE.
11. INSTALL HOSE BIBBS AND EXTERIOR WALL HYDRANTS AT 18" ABOVE FINISHED FLOOR AND FINISHED GRADE.
12. ALL FLOOR DRAINS SHALL BE INSTALLED WITH APPROVED TRAP PRIMING DEVICE AND TRAP GUARD INSERTS. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE INSTALLED WITH GRATES FLUSH TO THE FINISHED FLOOR.
13. UNLESS NOTED OTHERWISE, SLOPE ALL SANITARY DWV, STORM DRAIN, AND CONDENSATE DRAIN PIPING 3" PIPE SIZE & LARGER A MINIMUM OF 1/8" PER FT. OF RUN, AND 2" PIPE SIZE AND SMALLER A MINIMUM 1/4" PER FT. OF RUN. SLOPE VENT PIPING DOWN & BACK TO FIXTURES.
14. EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN 10 FT. FROM, OR AT LEAST 3 FT. ABOVE ANY WINDOW, DOOR, OPENING, AIR INTAKE, OR VENT SHAFT.
15. PROVIDE WATER HAMMER ARRESTORS AT ALL PLUMBING FIXTURES OR BATTERY OF FIXTURES WITH QUICK-CLOSING VALVES. INSTALL PER WATER HAMMER ARRESTORS SCHEDULE. AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER HAMMER ARRESTORS AND SHALL NOT BE INSTALLED. QUICK CLOSING VALVES ARE DEFINED IN THE PDI HANDBOOK.
16. WATER SERVICE PIPE AND THE BUILDING SEWER SHALL BE SEPARATED BY 5 FEET OF UNDISTURBED OR COMPACTED EARTH. THE REQUIRED SEPARATION DISTANCE SHALL NOT APPLY WHERE THE BOTTOM OF THE WATER SERVICE PIPE WITHIN 5 FEET OF THE SEWER IS A MINIMUM OF 12 INCHES ABOVE THE TOP OF THE HIGHEST POINT OF THE SEWER AND THE PIPE MATERIALS CONFORM TO APPLICABLE PLUMBING CODES.
17. UNLESS NOTED OTHERWISE, RUN CW & HW PIPING FULL SIZE THRU LENGTH OF CHASE, AND MAKE CONNECTIONS TO FIXTURES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULE. PROVIDE RIGID SUPPORT AND BLOCKING IN CHASE FOR HEADER AND BRANCH PIPING, AND FOR FLUSH VALVES TO PREVENT ANY MOVEMENT. TAPE TO BEING USED TO ISOLATE DISSIMILAR METALS IS PROHIBITED.
18. PROVIDE BALANCING VALVES IN HOT WATER RETURN PIPING AND BALANCE SYSTEM FOR PROPER OPERATION. BALANCING VALVES WITH THREADED CONNECTIONS: WATTS #CSM-61 'CIRCUIT SETTER'.
19. COORDINATE THE EXACT LOCATION OF FLOOR AND ROOF DRAINS WITH ARCHITECT/ENGINEER PRIOR TO CONSTRUCTION.
20. TERMINATE OVERFLOW RAIN LEADERS WITH CENTERLINE OF DOWNSPOUT NOZZLE 12" ABOVE OUTSIDE GRADE TO SPILL ONTO SPLASH BLOCK. PROVIDE CAST IRON ELBOW AND CONNECTOR FITTING AT BASE OF OVERFLOW DRAIN.
21. PROVIDE ALL NECESSARY VALVES, TRAPS, FLOW CONTROLS, FILTERS, BACKFLOW ASSEMBLIES, FAUCETS, STOPS, TAILPIECES, VACUUM BREAKERS, IF NOT FURNISHED WITH EQUIPMENT.
22. PROVIDE SUPPLY STOPS ON HOT AND COLD WATER PIPE SUPPLYING ALL FIXTURES AND EQUIPMENT.
23. PROVIDE APPROVED CHROME PLATED TYPE VACUUM BREAKERS WHERE REQUIRED BY LOCAL CODES, AND AS INDICATED ON PLANS FOR NEW WORK.
24. SUBMIT CORE-DRILL AND BEAM PENETRATION DIMENSION PLANS TO STRUCTURAL ENGINEER AND ARCHITECT FOR REVIEW PRIOR TO STARTING ANY WORK.
25. PROVIDE DIELECTRIC UNIONS WHERE CONNECTIONS ARE MADE BETWEEN DISSIMILAR PIPE MATERIALS.
26. SEE RISER DIAGRAMS FOR PIPE SIZES AND ROUTING NOT SHOWN ON PLANS.
27. METERING AND SITE UTILITY CONNECTIONS SHALL BE PROVIDED ON SITE UTILITY DRAWINGS. ALL SERVICES SHOWN ON THIS SET OF PLANS TERMINATE 5'-0" FROM BUILDING, UNLESS SHOWN OTHERWISE ON DRAWINGS. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO SITE UTILITES. (INC. CLEANOUTS, INCREASES, BACKWATER VALVES, ETC.)
28. PRESSURE REDUCING VALVES SHALL BE PROVIDED WHERE THE WATER PRESSURE EXCEEDS 80 PSI AT ANY PLUMBING FIXTURE. WATER VELOCITY SHALL NOT EXCEED 5 FEET PER SECOND.
29. COORDINATE EXACT LOCATION OF FLOOR DRAINS FOR HVAC EQUIPMENT WITH MECHANICAL CONTRACTOR. CONDENSATE PIPING SHALL NOT DISCHARGE INTO SANITARY SYSTEM.
30. DO NOT PENETRATE WALL FOOTINGS WITH PIPING, COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ALL PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND THE LOCATION SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
31. IF THE INTENT OF THE INFORMATION SHOWN ON THESE DOCUMENTS IS NOT CLEAR, OR IS CAPABLE OF MORE THAN ONE INTERPRETATION, SUCH MATTERS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN WRITING BEFORE THE SUBMISSION OF BIDS, AND THE ARCHITECT/ENGINEER SHALL MAKE CORRECTION OR EXPLANATION IN WRITING.
32. WHERE THE CONTRACTOR PROPOSES ALTERNATE SOLUTIONS, DIFFERENT ROUTINGS OF PIPING, DIFFERENT LOCATIONS OF EQUIPMENT, FIXTURES, ETC., THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OF THE RAMIFICATIONS OF THE PROPOSED CHANGE THAT ARE NOT INCLUDED IN HIS PROPOSAL, BUT BECOME APPARENT AT A LATER DATE, AND SHALL BEAR THE CONSEQUENCES OF CORRECTING ANY AND ALL CONFLICTS, DEFICIENCIES OR OTHER PROBLEMS AT NO INCREASE IN COST OR INCREASE IN CONSTRUCTION TIME ALLOTTED.
33. CONTRACTOR SHALL INSTALL ALL EQUIPMENT PER THE MANUFACUTURE'S INSTALLATION REQUIREMENTS AND/OR RECOMMENDATIONS.
34. REFER TO ACOUSTIC CONSULTANT DRAWINGS AND SPECIFICATIONS FOR INSTALLATION REQUIREMENTS FOR PIPE PENETRATIONS, PIPE HANGERS, SUMP PUMPS, BOOSTER PUMPS, CIRCULATOR PUMPS, WATER CLOSETS, AND ALL OTHER PLUMBING RELATED SYSTEMS.
35. ALL MODEL NUMBERS SHOWN WITHIN THESE DOCUMENTS ARE ONLY PROVIDED TO INDICATE LEVEL OF QUALITY AND THE DESIGN INTENT. REFER TO THE PLUMBING SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS FOR EACH PRODUCT BEING USED.
36. PROVIDE HOSE BIBS, FLOOR DRAINS AND HUB DRAINS IN ALL MECHANICAL ROOMS. HUB DRAINS ARE PROVIDED TO COLLECT CONDENSATE FROM MECHANICAL EQUIPMENT AND PIPING SHALL ROUTE TO STORM.
37. WHERE THERE ARE DISCREPANCIES BETWEEN THE FLOOR PLANS AND THE RISER DIAGRAMS THE FLOOR PLANS SHALL TAKE PRECEDENCE.
38. REFER TO THE ARCHITECTURAL PLANS FOR ADDITIONAL DETAILS AND SPECIFICATIONS RELATING TO PLUMBING FIXTURE SELECTIONS, COLOR, FINISHES, AND PIPING ROUTING.
39. FOR INFORMATION NOT CLEARLY DEFINED IN THE DRAWINGS, REFER TO REVIT MODEL FOR FURTHER CLARIFICATION.

Sheet List

Sheet Number	Sheet Name
P-001	PLUMBING SYMBOLS AND SPECIFICATIONS
P-201	PLUMBING GRAVITY FLOOR PLAN AREA A&C
P-202	PLUMBING GRAVITY FLOOR PLAN AREA B
P-203	PLUMBING FLOOR PLAN - ROOF
P-301	PLUMBING PRESSURE FLOOR PLAN A & C
P-302	PLUMBING PRESSURE FLOOR PLAN B
P-401	PLUMBING ENLARGED PLANS
P-501	PLUMBING GRAVITY RISER DIAGRAM
P-502	PLUMBING PRESSURE RISER DIAGRAM
P-701	PLUMBING SCHEDULES
P-801	PLUMBING DETAILS
PD-301	PLUMBING DEMO PLAN

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9/3/2025

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C.o.T. NO. 24-C-00032

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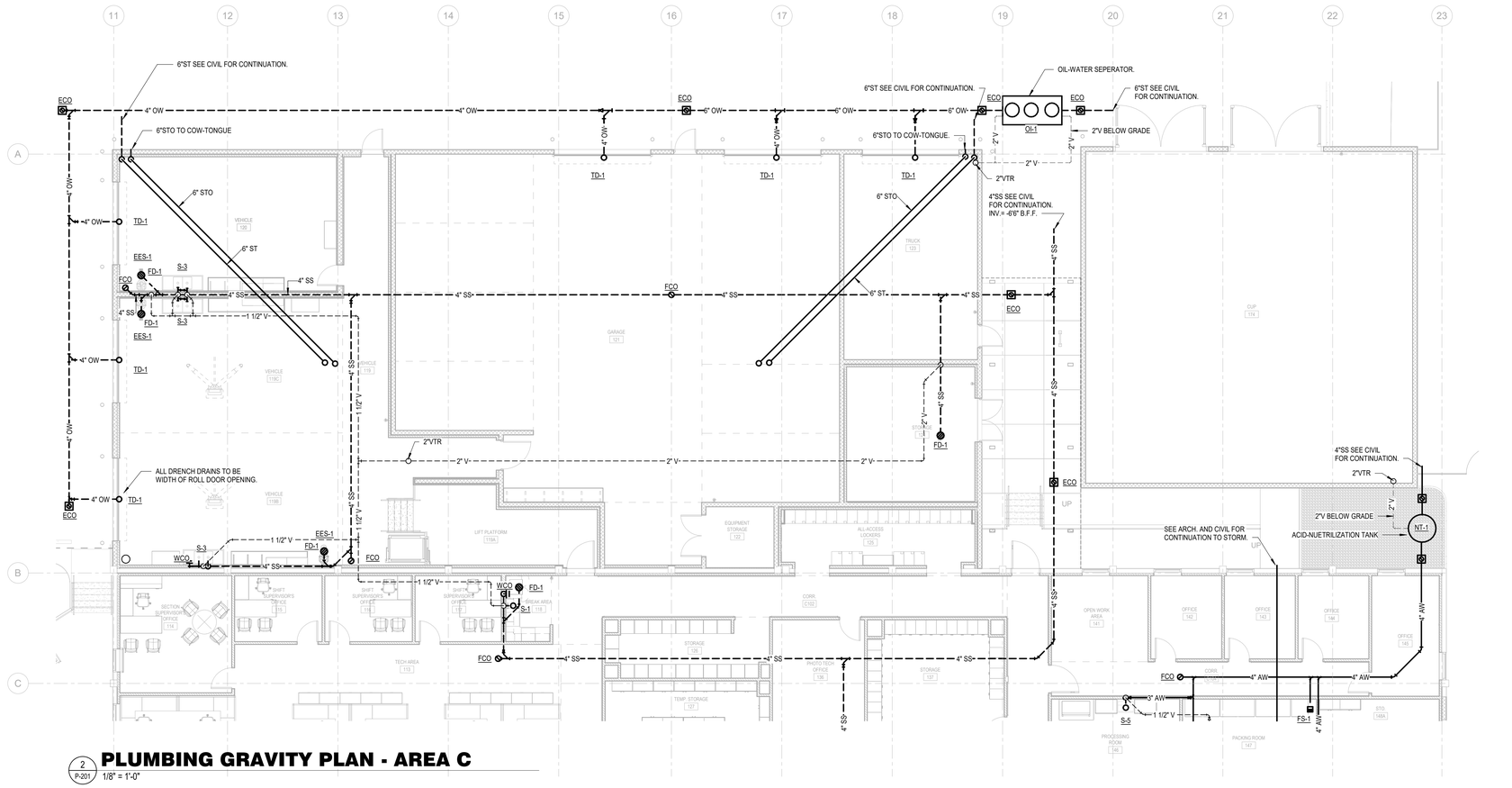
DRAWN BY: TB
CHECKED BY: JH

TPD HOWARD AVENUE ANNEX BUILDING

PLUMBING SYMBOLS AND SPECIFICATIONS

TRUE PROJECT NORTH:

P-001

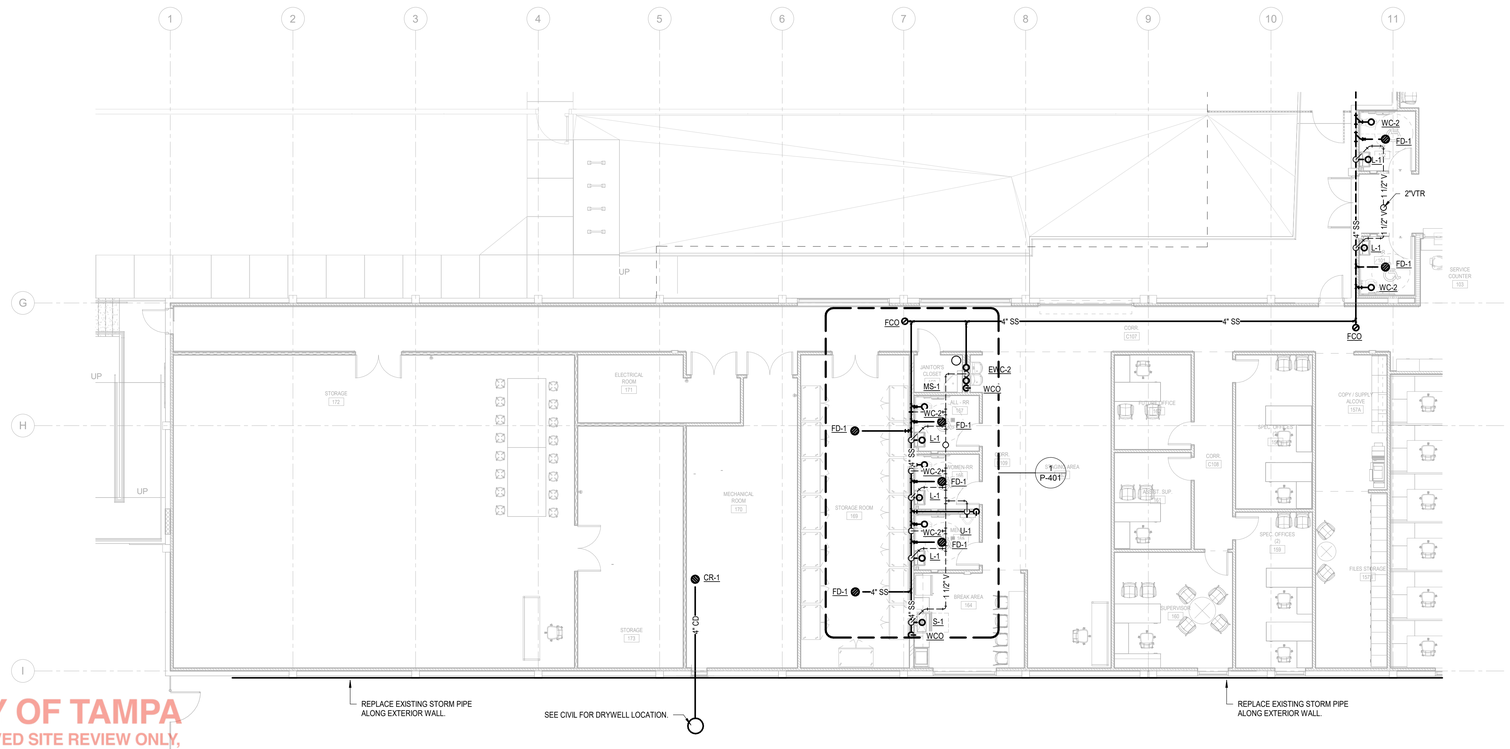


KEYED NOTES:

1. ACID NEUTRALIZATION TANK. TANK SHALL BE INSTALLED INSIDE AN UNDERGROUND CONCRETE VAULT FILLED WITH PEA GRAVEL TO A LEVEL JUST BELOW THE TANK INLET AND OUTLET PIPES. THE TANK COVER SHALL BE BOLTED AND PROVIDED WITH AN ACCESS DOOR FOR VISUAL INSPECTION OF THE LIMESTONE LEVEL AND TANK INTERIOR WITHOUT THE NEED TO REMOVE THE TANK COVER. THE TANK SHALL BE FILLED WITH 1 TO 3 INCH DIAMETER LIMESTONE CHIPS

2 P-201 PLUMBING GRAVITY PLAN - AREA C

1/8" = 1'-0"



1 P-201 PLUMBING GRAVITY PLAN - AREA A

1/8" = 1'-0"

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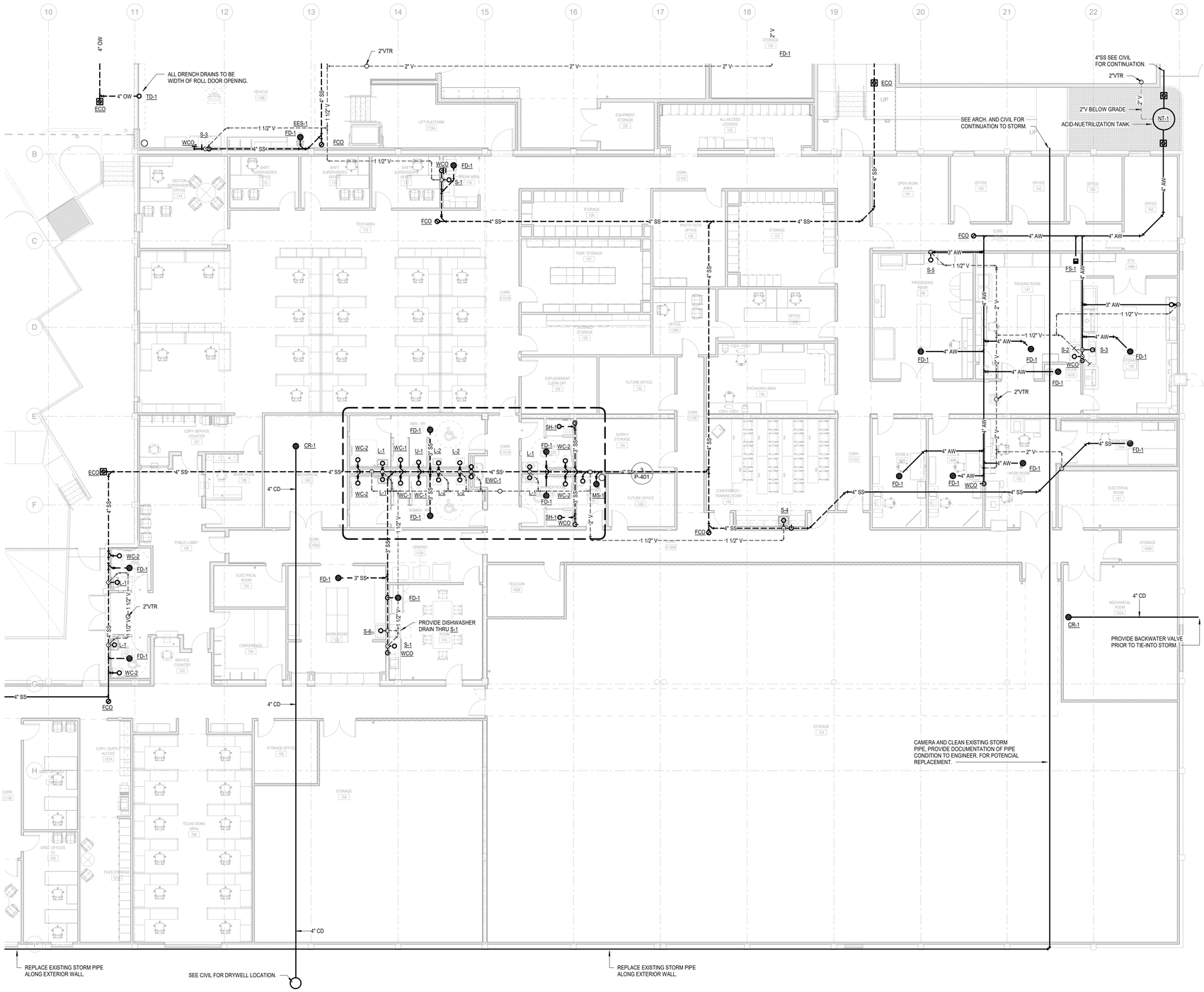
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PLUMBING GRAVITY FLOOR PLAN AREA A&C

TRUE PROJECT NORTH:

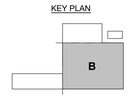
P-201



1 P-202 PLUMBING GRAVITY PLAN - AREA B

1/8" = 1'-0"

KEY PLAN



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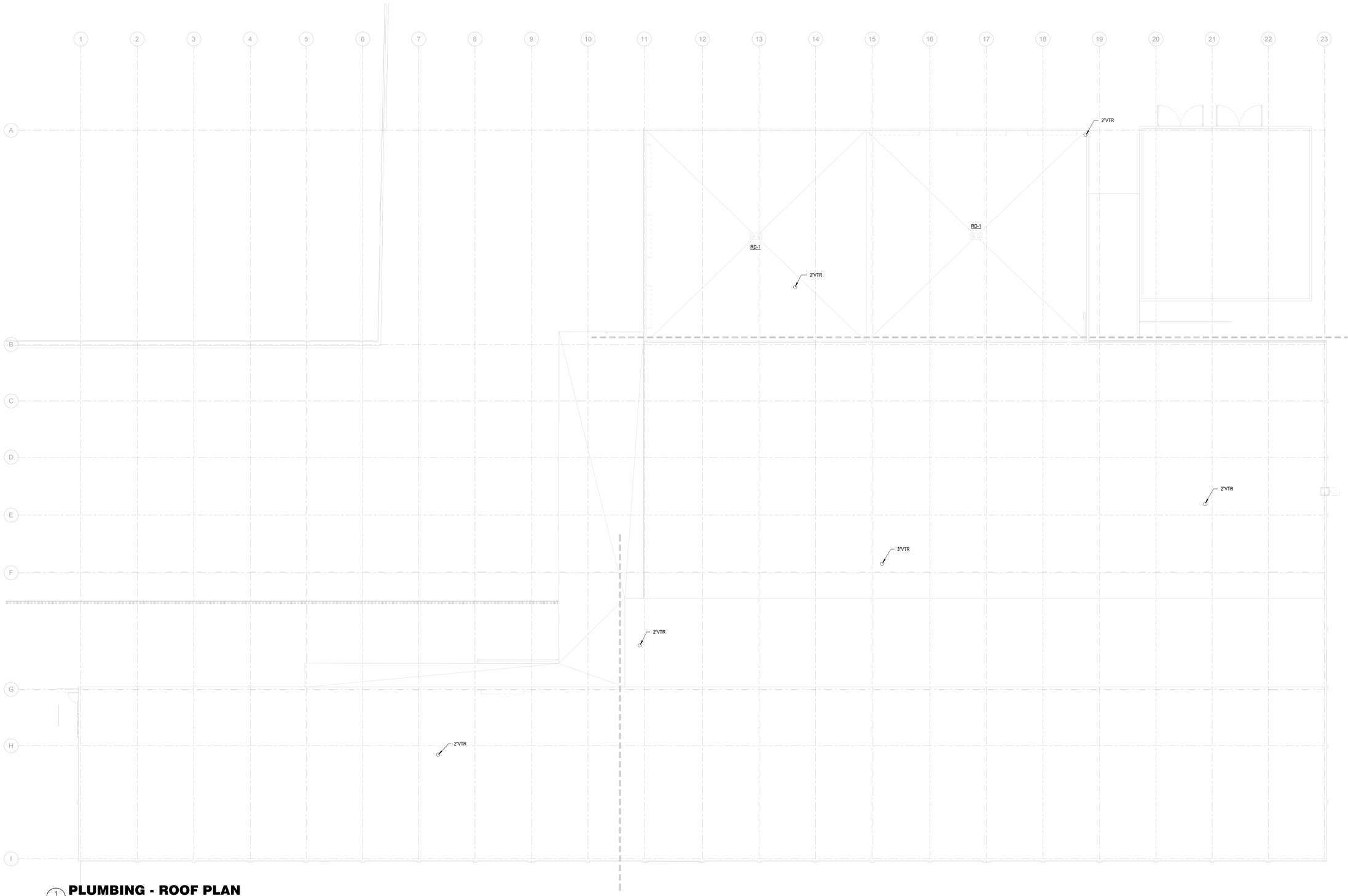
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CHECKED BY: **JH**

TPD HOWARD AVENUE ANNEX BUILDING

PLUMBING GRAVITY FLOOR PLAN AREA B

TRUE PROJECT NORTH:

P-202



1 P-203 **PLUMBING - ROOF PLAN**
3/32" = 1'-0"

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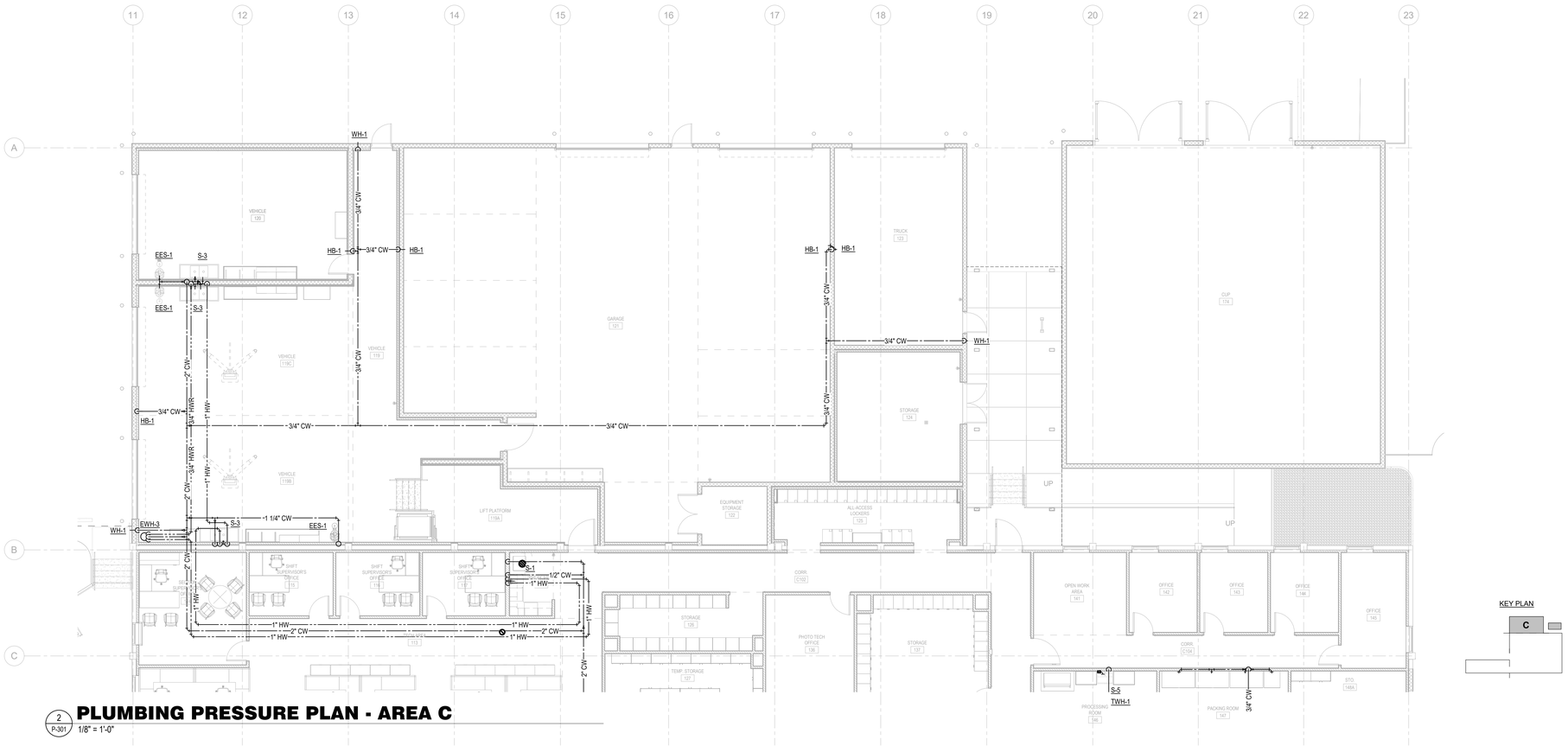
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PLUMBING FLOOR PLAN - ROOF

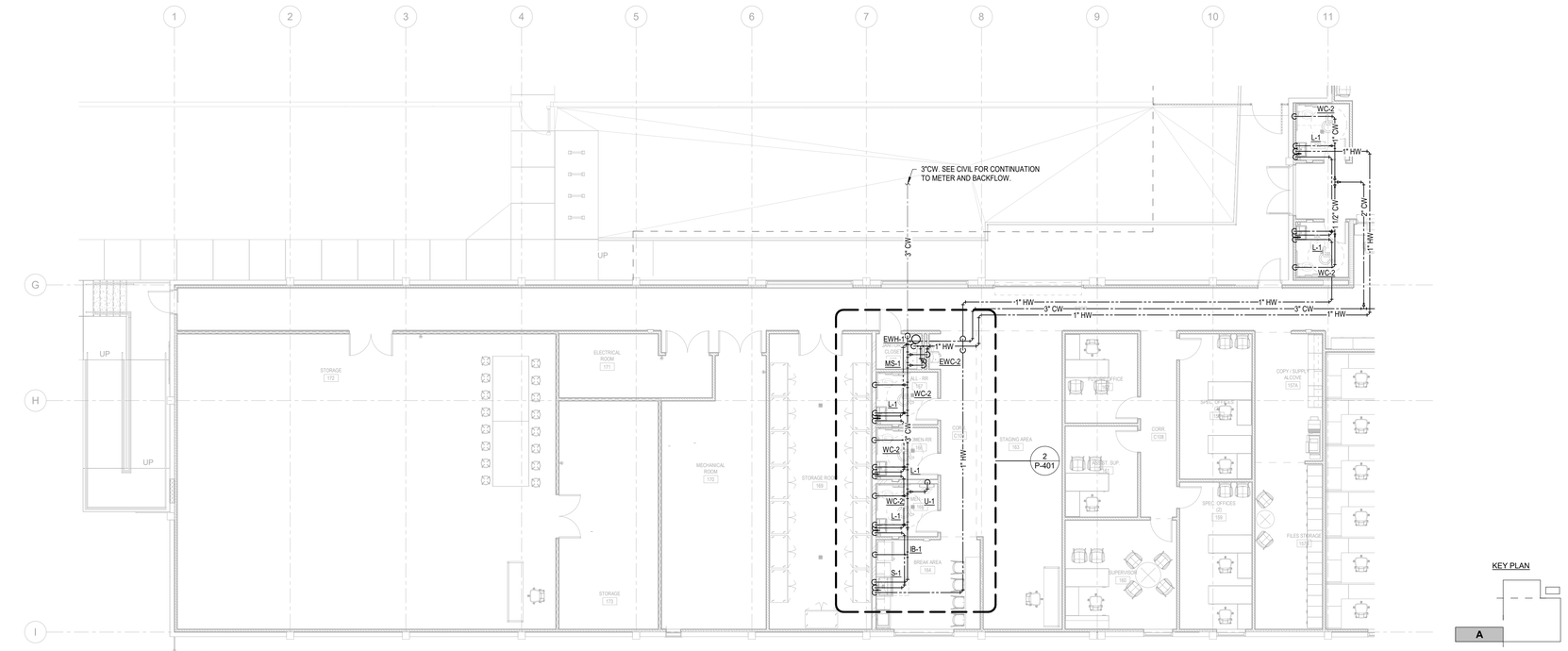
TRUE PROJECT NORTH:

P-203



2 P-301 **PLUMBING PRESSURE PLAN - AREA C**

1/8" = 1'-0"



PLUMBING PRESSURE PLAN - AREA A

1/8" = 1'-0"

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TPD HOWARD AVENUE ANNEX BUILDING

PLUMBING PRESSURE FLOOR PLAN A & C

TRUE PROJECT NORTH:

P-301

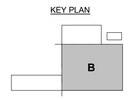

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VEHICLE 120
VEHICLE 118
VEHICLE 116
VEHICLE 114
LIFT PLATFORM 1164
GARAGE 121
EQUIPMENT STORAGE 109
STORAGE 108
TRUCK 110
STORAGE 106
CUP 102
UP
UP
UP

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1 P-302 **PLUMBING PRESSURE PLAN - AREA B**
1/8" = 1'-0"

KEY PLAN



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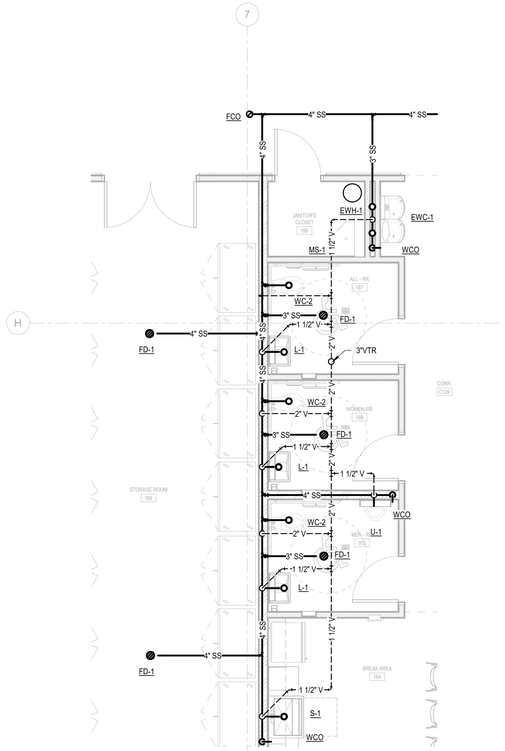
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PLUMBING PRESSURE FLOOR PLAN B

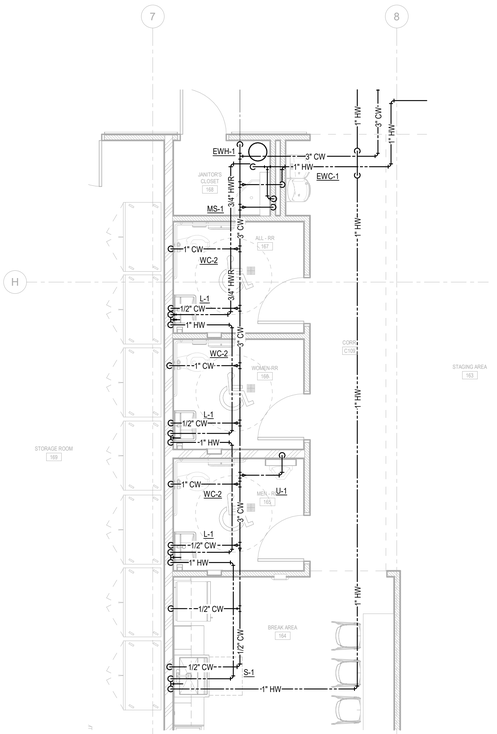
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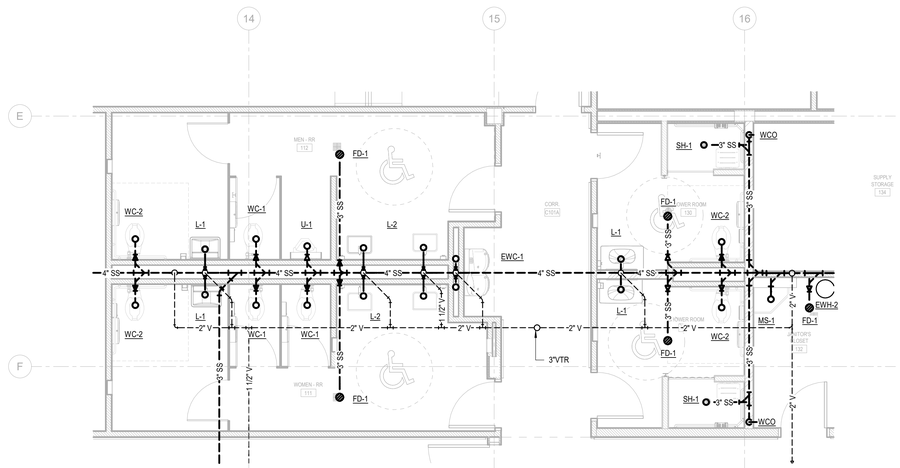
PLUMBING ENLARGED GRAVITY PLAN - RR AREA A

1 P-401 1/4" = 1'-0"



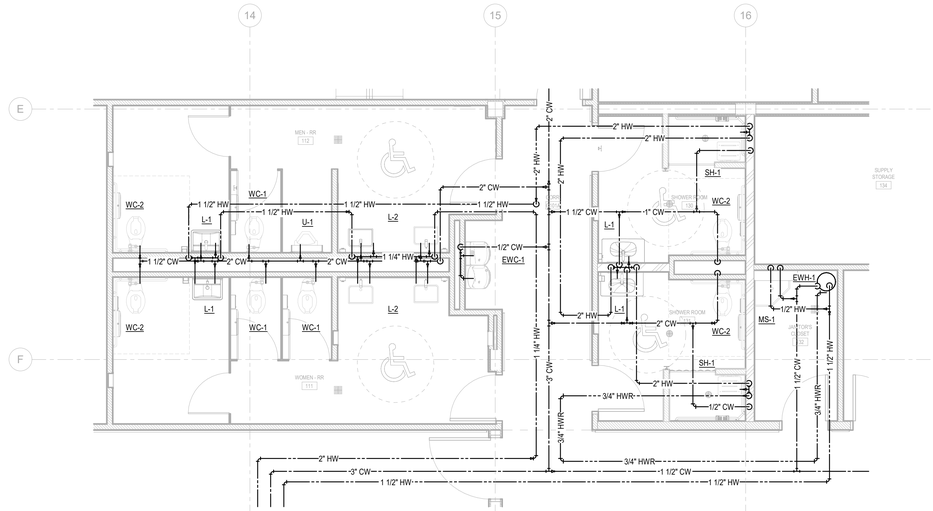
PLUMBING ENLARGED PRESSURE PLAN - RR AREA A

2 P-401 1/4" = 1'-0"



PLUMBING ENLARGED GRAVITY PLAN - RR AREA B

3 P-401 1/4" = 1'-0"



PLUMBING ENLARGED PRESSURE PLAN - RR AREA B

4 P-401 1/4" = 1'-0"

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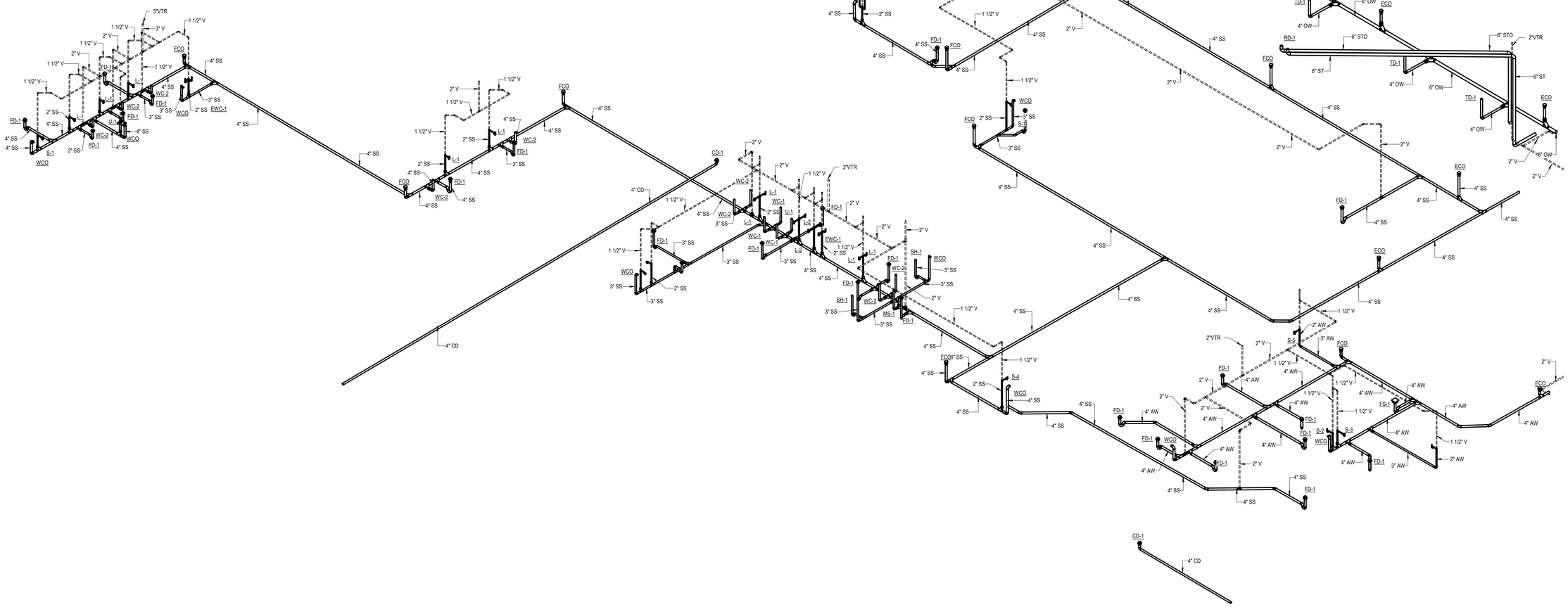
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TPD HOWARD AVENUE ANNEX BUILDING

PLUMBING ENLARGED PLANS

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P-401



1 P-501 **PLUMBING GRAVITY RISER DIAGRAM**

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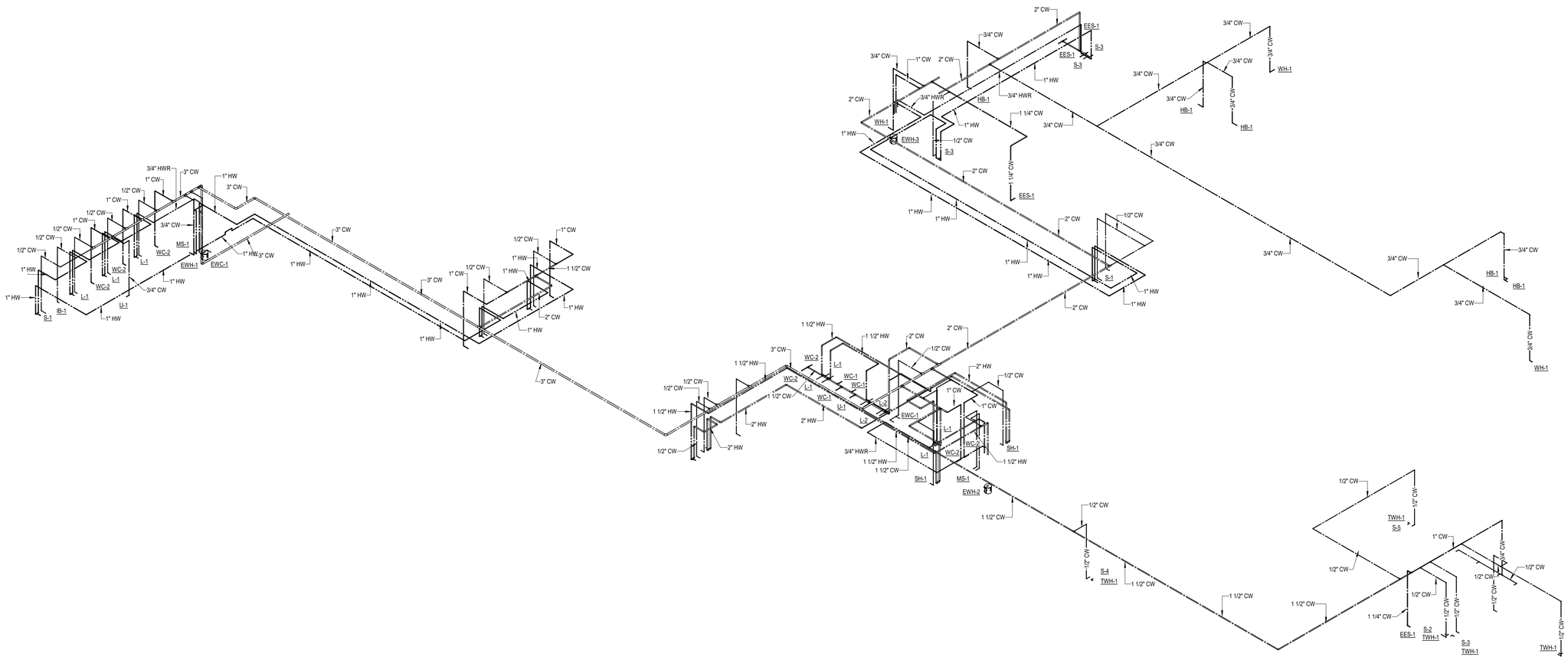
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PLUMBING GRAVITY RISER DIAGRAM

TRUE PROJECT NORTH:

P-501



1 P-502 PLUMBING PRESSURE RISER DIAGRAM

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P-502

WATER HAMMER ARRESTOR SCHEDULE

PIPE SIZE	PDI SIZE	FIXTURE UNIT RANGE	MANUFACTURER
1/2"	A	1-11	SIOUX CHIEF HYDRA-RESTER #652-A
3/4"	B	12-32	SIOUX CHIEF HYDRA-RESTER #653-B
1"	C	33-60	SIOUX CHIEF HYDRA-RESTER #654-C
1-1/4"	D	61-113	SIOUX CHIEF HYDRA-RESTER #655-D
1-1/2"	E	114-154	SIOUX CHIEF HYDRA-RESTER #656-E
2"	F	155-330	SIOUX CHIEF HYDRA-RESTER #657-F

WATER HAMMER ARRESTOR NOTES:

1. AIR CHAMBERS ARE NOT AN ACCEPTABLE EQUAL TO WATER HAMMER ARRESTORS AND SHALL NOT BE INSTALLED.
2. SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE ACCESS PANELS WHERE WHA'S ARE CONCEALED.

ROOF DRAIN SCHEDULE

MARK	BODY	DOME OR STRAINER	MANUFACTURER
RD-1	CAST IRON	CAST IRON	J.R. SMITH #1020-E-R-C-CID WATTS #RD-100-B-D-F-K13 ZURN #ZC-100-R-C-E

NOTES:

1. PROVIDE ALL ROOF DRAINS WITH UNDERDECK CLAMP, SUMP RECEIVER, ADJUSTABLE EXTENSION, AND C.I. DOME.
2. REFER TO PLANS FOR DRAIN AND CONNECTION SIZES.

CONDENSATE RECEPTOR SCHEDULE

MARK	BODY	GRATE OR STRAINER	MANUFACTURER
CR-1	CAST IRON	7" ROUND, NICKEL BRONZE GRATE WITH FLANGE	J.R. SMITH #2010-F37-NB WATTS #FD-100-ER7 ZURN #Z-415/

NOTES:

1. PROVIDE ALL DRAINS WITH WIDE ANCHOR FLANGE AND CLAMPING DEVICE. ATTACH DRAINS TO MEMBRANE IN FLOOR. WHEN DRAINS ARE LOCATED IN NON-MEMBRANE FLOORS, THEY SHALL BE FLASHED IN COMPLIANCE WITH THE SPECIFICATIONS.
2. INSTALL WITH FLANGE 1" A.F.F. TO PREVENT DRAIN FROM RECEIVING GREY WATER.
3. PROVIDE BACKWATER VALVE ON ALL CONDENSATE RECEPTORS LOCATED ON THE GROUND FLOOR.

HOSE BIBB/HYDRANT SCHEDULE

MARK	TYPE	CONNECTION SIZE		MANUFACTURER	DESCRIPTION
		HW	CW		
HB-1	HOSE BIBB	———	3/4"	ZURN #1341-P34-RC WITH #Z1399-HG FAUCET LOCK	HOSE BIBB WITH INTEGRAL VACUUM BREAK, LOOSE KEY HANDLE, 3/4" HOSE CONNECTION, THREADED INLET, AND FAUCET LOCK.
WH-1	WALL HYDRANT EXTERIOR	———	3/4"	J.R. SMITH #5509QT WATTS #HY-725 ZURN #Z1300	ENCASED NON-FREEZE WALL HYDRANT WITH INTEGRAL VACUUM BREAKER AND KEY LOCK. INSTALL WALL HYDRANT 18" A.F.F.

NOTES:

1. INSTALL HOSE BIBBS 18" ABOVE FINISHED FLOOR OR EXTERIOR GRADE

TANKLESS WATER HEATER SCHEDULE

MARK/UNIT	TWH-1
MANUFACTURER	EEMAX
MODEL NO.	SPEX3208T
TYPE	ELECTRIC
VOLT/PHASE/AMPS	208/1/20
KW	3.0
TEMPERATURE RISE °F/GPM	41°F/0.5 GPM
DIMENSIONS	10.75" x 5.25" x 3.0"
WEIGHT	4 LBS
OPERATING PRESSURE	MIN 30 PSI, MAX 150 PSI
OUTLET TEMPERATURE	105°
LOCATION	SEE DRAWINGS

NEUTRALIZATION TANK SCHEDULE

MARK	GALLONS	MODEL	MANUFACTURER	NOTES
NT-1	77	NT-100	T&C PLASTICS	SEE DETAIL ON SHEET P801

OIL INTERCEPTOR SCHEDULE

MARK	GALLONS	MODEL	MANUFACTURER	NOTES
OI-1	562	OT-500	STRIEM	SEE DETAIL ON SHEET P801

FLOOR DRAIN/FLOOR SINK SCHEDULE

MARK	BODY	GRATE OR STRAINER	MANUFACTURER
FD-1	CAST IRON	6" NICKEL BRONZE, ROUND	J.R. SMITH #2005-A06-NB WATTS #FD-100-A6 ZURN #ZN-415-6B
FD-2	CAST IRON	6" NICKEL BRONZE, HEAVY DUTY, ROUND, WITH SEDIMENT BUCKET	J.R. SMITH #2005-C06-NB WATTS #FD-100-B6
FS-1	PORCELAIN COATED CAST IRON	12" PORCELAIN COATED C.I., SQUARE, 10" DEPTH, BOTTOM DOME STRAINER	J.R. SMITH #3160 WATTS #FS-750 ZURN #Z-1902-32

FLOOR DRAIN NOTES:

1. FURNISH ALL FLOOR DRAINS WITH TRAP SEAL PROTECTION DEVICES. SEE SCHEDULE, THIS SHEET.
2. FURNISH ALL FLOOR DRAINS AND FLOOR SINKS WITH SAME SIZE TRAP AS BRANCH LINE. REFER TO PLANS FOR CONN. SIZES.
3. FURNISH ALL FLOOR SINKS WITH GRATE OPTION (FULL GRATE, HALF GRATE, ETC.) AS REQUIRED BY FOOD SERVICE PLANS.
4. PROVIDE ALL DRAINS WITH WIDE ANCHOR FLANGE AND CLAMPING DEVICE. ATTACH DRAINS TO MEMBRANE IN FLOOR. WHEN DRAINS ARE LOCATED IN NON-MEMBRANE FLOORS, THEY SHALL BE FLASHED IN COMPLIANCE WITH THE SPECIFICATIONS.

TRAP SEAL PROTECTION DEVICE SCHEDULE

PIPE SIZE	PIPE MATERIAL	INSTALLATION TYPE	MANUFACTURER
2"	PVC OR C.I.	F.D. OUTLET	J.R. SMITH #2692.02; PROSET #TG22G; SURESEAL #SS2009
3"	PVC OR C.I.	F.D. OUTLET	J.R. SMITH #2692.02; PROSET #TG33G; SURESEAL #SS3000
4"	PVC OR C.I.	F.D. OUTLET	J.R. SMITH #2692.02; PROSET #TG34G; SURESEAL #SS4009

TRAP SEAL PROTECTION DEVICE NOTES:

1. INSTALL IN ALL NEW FLOOR DRAINS AS SECONDARY PROTECTION. INSTALL IN ALL EXISTING FLOOR DRAINS AS SECONDARY PROTECTION.
2. SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

CLEANOUT SCHEDULE

MARK	APPLICATION	MANUFACTURER
FCO	FINISHED FLOORS	J.R. SMITH #4033L; WATTS #CO-200-R; ZURN #ZN-1400
	FINISHED FLOORS, HEAVY DUTY	J.R. SMITH #4113L; WATTS #CO-200-RX; ZURN #ZN-1400-HD
	TILE AREAS	J.R. SMITH #4153L; WATTS #CO-200-T; ZURN #ZN-1400-X
	TERRAZZO AREAS	J.R. SMITH #4193L; WATTS #CO-200-U; ZURN #ZN-1400-Z
	CARPETED AREAS	J.R. SMITH #4033L-Y; WATTS #CO-200-RC; ZURN #Z-1400-HD
	UNFINISHED AREAS	J.R. SMITH #4113L; WATTS #CO-200-RX; ZURN #Z-1400-HD
CO/ WCO	LINE CLEANOUTS	J.R. SMITH #4472T; WATTS #CO-590-RD; ZURN #Z-1468
	STACK CLEANOUTS	J.R. SMITH #4532S; WATTS #CO-460-RD; ZURN #Z-1446
ECO	OUTSIDE AREAS	J.R. SMITH #4113L; WATTS #CO-200-RX; ZURN #Z-1400-HD

NOTES:

1. INSTALL ECO IN 24"x24"x4" THICK CONCRETE PAD. TOP OF PAD ELEVATION TO BE 2" ABOVE FINISHED GRADE.
2. PROVIDE ALL CLEANOUTS WITH WIDE ANCHOR FLANGE & CLAMPING DEVICE. ATTACH CLEANOUTS TO MEMBRANE IN FLOOR. WHEN CLEANOUTS ARE LOCATED IN NON-MEMBRANE FLOORS, THEY SHALL BE FLASHED IN COMPLIANCE WITH THE SPECIFICATIONS.
3. PROVIDE LINE & STACK TYPE WALL CLEANOUTS WITH ACCESS COVERS.

ELECTRIC WATER HEATER SCHEDULE

MARK	STORAGE	RECOVERY @ 70 DEG. RISE	KW INPUT POWER	VOLT/PHASE	BASIS OF DESIGN
EWH-1	10 USG	15.0 GPH	2.5 kW	208V/1PH	A.O. SMITH - DEL-10S-2.5
EWH-2	30 USG	30.0 GPH	5.0 kW	208V/3PH	A.O. SMITH - DEL-30D-5
EWH-3	10 USG	18.0 GPH	3.0 kW	208V/1PH	A.O. SMITH - DEL-10S-3

ELECTRIC WATER HEATER NOTES:

1. SET OUTLET TEMPERATURE OF TANK HEATERS TO PROVIDE 140 DEG. HOT WATER.
2. SEE PIPING DETAILS, SHEET P801

CIRCULATION PUMP SCHEDULE

MARK	GPM	HEAD	HP	SERVING	BASIS OF DESIGN
CP-1	7.25	12.25	1/6	EWH-1	TACO #IL113
CP-1	7.25	12.25	1/6	EWH-1	TACO #IL113
CP-1	7.25	12.25	1/6	EWH-1	TACO #IL113

TRENCH DRAIN SCHEDULE

MARK	BODY	GRATE OR STRAINER	MANUFACTURER
TD-1	HDPE	6-3/4" WIDE REVEAL TRENCH DRAIN SYSTEM WITH HEAVY-DUTY FRAME ASSEMBLY	ZURN #Z886-HD-Z-E1-U6-DGE

FLOOR DRAIN NOTES:

1. FURNISH ALL FLOOR DRAINS WITH TRAP SEAL PROTECTION DEVICES. SEE SCHEDULE, THIS SHEET.
2. FURNISH ALL FLOOR DRAINS AND FLOOR SINKS WITH SAME SIZE TRAP AS BRANCH LINE. REFER TO PLANS FOR CONN. SIZES.
3. PROVIDE ALL DRAINS WITH WIDE ANCHOR FLANGE AND CLAMPING DEVICE. ATTACH DRAINS TO MEMBRANE IN FLOOR. WHEN DRAINS ARE LOCATED IN NON-MEMBRANE FLOORS, THEY SHALL BE FLASHED IN COMPLIANCE WITH THE SPECIFICATIONS.
4. TRENCH DRAINS SHALL BE LENGTH OF ROLL DOOR OPENING.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	SOIL	WASTE	VENT	HW	CW	MANUFACTURER
WC-1 (NON-ADA) WC-2 (ADA)	WALL MOUNTED FLUSH VALVE WATER CLOSET	4"	———	2"	———	1"	SLOAN #ST-2459-STG, VITREOUS CHINA WALL MOUNTED TOILET, WITH SLOANTEC GLAZE. SLOAN 'ECOS' #111-1.28-HW POLISHED CHROME HARDWIRED FLUSH VALVE. (INCLUDE TRANSFORMER BOX AS REQUIRED) 1.28 GPF. CENTOCO #5500CC SEAT S.S. HINGE POSTS. PROVIDE WITH ZURN HIGH PERFORMANCE ADJUSTABLE HORIZONTAL SIPHON JET NO HUB WATER CLOSET CARRIER LEFT, RIGHT, OR BACK TO BACK CARRIER AS SHOWN ON DRAWINGS. SEE NOTE '4' BELOW. NON-ADA: INSTALL TOP OF SEAT AT 15" TO 17" FROM THE FINISHED FLOOR. ADA: INSTALL TOP OF SEAT AT 17" TO 19" FROM THE FINISHED FLOOR. FLUSH LEVER SHALL ALWAYS BE ON OPEN SIDE OF RESTROOM. PROVIDE LEFT OR RIGHT SIDE FLUSH LEVER MODEL AS REQUIRED.
U-1 (NON-ADA) U-2 (ADA)	WALL MOUNTED URINAL	2"	———	2"	———	3/4"	SLOAN #SU-1009-STG, VITREOUS CHINA WALL MOUNTED URINAL, WITH SLOANTEC GLAZE, SLOAN 'ECOS' #186-0.125-HW POLISHED CHROME HARDWIRED FLUSH VALVE. (INCLUDE TRANSFORMER BOX AS REQUIRED) 0.125 GPF, AND CHAIR CARRIER. SEE NOTE '4' BELOW.
L-1 (ADA)	WALL HUNG LAVATORY	———	1¼"	2"	1/2"	1/2"	SLOAN #SS-3003-STG, VITREOUS CHINA WALL MOUNTED LAVATORY, WITH SLOANTEC GLAZE. SLOAN 'OPTIMA' #ETF-600-8-BOX-BDT-CP-0.5GPM-MLM-FCT POLISHED CHROME HARDWIRED SENSOR FAUCET, 0.5 GPM, WITH BELOW DECK ASSE 1070 THERMOSTATIC MIXING VALVE, (INCLUDE TRANSFORMER BOX AS REQUIRED)McGUIRE #PW2150GJWC PRE-WRAPPED CAST P-TRAP INSULATION KIT WITH OFFSET DRAIN, #H2165LK C.P. SUPPLY WITH LOOSE KEY STOP, AND CONCEALED ARM CHAIR CARRIER. SEE NOTE '4' BELOW.
L-2 (ADA)	2-STATION WALL HUNG LAVATORY	———	1¼"	2"	1/2"	1/2"	SLOAN #AD-82000 AER-DEC 2-STATION WALL-MOUNTED SINK, WITH SLOANTEC GLAZE. SLOAN BASYS' #EFX-300-BOX-BDT-CP-0.5GPM-MLM-IR-FCT POLISHED CHROME HARDWIRED SENSOR FAUCET, 0.5 GPM, WITH BELOW DECK ASSE 1070 THERMOSTATIC MIXING VALVE, (INCLUDE TRANSFORMER BOX AS REQUIRED), McGUIRE #PW2150GJWC PRE-WRAPPED CAST P-TRAP INSULATION KIT WITH OFFSET DRAIN, #H2165LK C.P. SUPPLY WITH LOOSE KEY STOP, AND CONCEALED ARM CHAIR CARRIER. SEE NOTE '4' BELOW.
S-1	BREAK ROOM SINK	———	1½"	2"	1/2"	1/2"	ELKAY #LRAD191865PD 18 GA., 6.5" DEEP SINK, ELKAY SINGLE HOLE KITCHEN FAUCET PULL-OUT SPRAY AND LEVER HANDLE. McGUIRE #8912 17 GA. C.P. 'P' TRAP WITH WALL BEND AND #H2165LK C.P. SUPPLIES WITH LOOSE KEY STOP. T & S EC-TMV MIXING VALVE.
S-2	UTILITY ONE-COMP SINK	———	1½"	2"	1/2"	1/2"	AERO MANUFACTURING #2F1-1824, 14 GAUGE 304 STAINLESS STEEL 18" x 24" x 14", ONE COMPARTMENT SINK. AERO MANUFACTURING #S-2 8" O.C. FAUCET (T&S) 12" SPOUT WALL-MOUNTED FAUCET WITH SUPPLY STOPS, MCGUIRE #1151AWC OFFSET WITH 151A S.S. GRID STRAINER AND MCGUIRE #MCT15007SZN P-TRAP
S-3	TWO-COMP SINK	———	1½"	2"	1/2"	1/2"	AERO MANUFACTURING #2F2-2020-20LR, 14 GAUGE 304 STAINLESS STEEL 20" X 20" X 12". TWO COMPARTMENT SINK. AERO MANUFACTURING #S-2 8" O.C. FAUCET (T&S) 12" SPOUT WALL-MOUNTED FAUCET WITH SUPPLY STOPS, MCGUIRE #1151AWC OFFSET WITH 151A S.S. GRID STRAINER AND MCGUIRE #MCT15007SZN P-TRAP
S-4	COUNTER MOUNTED S.S. SINK	———	1½"	2"	1/2"	1/2"	ELKAY #LRAD-252165-3 18 GA. 6.5" DEEP, T & S #B-2866-05 FAUCET WITH #B-0199-06-A05 AERATOR (0.5 GPM), McGUIRE #151M CUP STRAINER WITH 17 GA. TAILPIECE, #8912C 17 GA. C.P. 'P' TRAP WITH WALL BEND, AND #H2165LK C.P. SUPPLY WITH LOOSE KEY STOP.
S-5	WALL-MOUNTED SCRUB SINK	———	1½"	2"	1/2"	1/2"	SLOAN #ESS-2100 S.S. 1-STATION WALL-MOUNTED SCRUB SINK WITH SLOAN OPTIMA SENSOR FAUCET. McGUIRE #8912 17 GA. C.P. 'P' TRAP WITH WALL BEND AND #H2165LK C.P. SUPPLIES WITH LOOSE KEY STOP. T & S EC-TMV MIXING VALVE.
S-6	WASH-UP HAND SINK	———	1½"	2"	1/2"	1/2"	BEST SHEET METAL (BSM) #ADA-011E242066B S.S. 1-STATION WALL-MOUNTED HAND SINK WITH ELECTRONIC SENSOR FAUCET AND SOAP DISPENSER. McGUIRE #8912 17 GA. C.P. 'P' TRAP WITH WALL BEND AND #H2165LK C.P. SUPPLIES WITH LOOSE KEY STOP. T & S EC-TMV MIXING VALVE.
SH-1 (ADA)	SHOWER	———	2"	2"	1/2"	1/2"	SYMMONS #4705-X-1.5 'ALLURA' 1.5 GPM SHOWER SYSTEM WITH HAND SPRAY. PROVIDE SHOWER PAN LINING, CHLORALOY 240 & ZURN #FD2254-PV2-PB SHOWER DRAIN. SET VALVE STOP TO DELIVER 110°F HOT WATER. SEE NOTE '4' BELOW.
EWC-1 (ADA)	WALL HUNG HI/LO EWC AND BOTTLE FILLER	———	1⅛"	2"	———	1/2"	ELKAY #LZSTL8WSSP, McGUIRE #8872 17 GA. C.P. 'P' TRAP WITH WALL BEND, #H2165LK C.P. SUPPLY WITH LOOSE KEY STOP, AND CARRIER SEE NOTE '4' BELOW.
EWC-2 (ADA)	WALL HUNG EWC AND BOTTLE FILLER	———	1⅛"	2"	———	1/2"	ELKAY #LZS8WSSP. McGUIRE #8872 17 GA. C.P. 'P' TRAP WITH WALL BEND, #H2165LK C.P. SUPPLY WITH LOOSE KEY STOP, AND CARRIER SEE NOTE '4' BELOW.
MS-1	MOLDED STONE MOP SINK	———	3"	2"	1/2"	1/2"	FIAT #MSB 2424, #832-AA HOSE & BRACKET, #889-CC MOP HANGER, 48" HIGH S.S. WALL GUARD, #E-77-AA S.S. BUMPERGUARDS, AND T & S #B-0665-BSTR FAUCET. REPLACE ALL EXISTING MOP SINKS WITH NEW FAUCET & FIXTURES.
IB-1	REFRIGERATOR ICE MAKER HOOK-UP BOX	———	———	———	———	1/2"	GUY GRAY #MIB1HA OUTLET BOX WITH VALVE AND WATER HAMMER ARRESTOR. COORDINATE EXACT LOCATION AND ELEVATION WITH EQUIPMENT.
EES-1 (ADA)	EMERGENCY EYE-WASH AND SHOWER	———	1¼"	———	———	1¼"	GUARDIAN #GBF1994 BARRIER-FREE SAFETY STATION WITH WIDEAREA ™ EYE/FACE WASH, ALL-STAINLESS STEEL CONSTRUCTION

PLUMBING FIXTURE NOTES:

1. WHERE COLOR/FINISH OPTIONS ARE AVAILABLE FOR FIXTURES, SELECTIONS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO PURCHASE AND INSTALLATION.
2. VERIFY SINK DIMENSIONS WITH ARCHITECT, RE: MILLWORK.
3. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF ALL FIXTURES.
4. FIXTURES FOR USE BY THE DISABLED:
   A. INSTALL IN ACCORDANCE WITH A.D.A., STATE, AND LOCAL REQUIREMENTS.
   B. THE FORCE REQUIRED TO ACTIVATE FLUSH VALVES SHALL BE 5 LBS MAXIMUM.
   C. FLUSH ACTIVATOR SHALL BE LOCATED ON WIDE SIDE OF THE STALL.
   D. THE FAUCET CONTROLS AND THE OPERATING MECHANISM (OPERABLE WITH ONE HAND) SHALL BE OF THE TYPE NOT REQUIRING AN OPERATING FORCE EXCEEDING 5 LBS, OR TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.
   E. ACCESSIBLE FIXTURES FOR CHILDREN SHALL COMPLY WITH FLORIDA BUILDING CODE 423.4.4.
5. PROVIDE THERMAL MIXING VALVES IN EACH RESTROOM HOT WATER SUPPLY LINE AND AT EACH LAVATORY FIXTURE AS SCHEDULED.
6. APPROVED EQUAL FIXTURE MAY BE PROVIDED.

CITY OF TAMPA
APPROVED SITE REVIEW ONLY, NOT VALID WITHOUT BUILDING PLANS
BLD-25-0517072
9/3/2025

City of Tampa
CONSTRUCTION SERVICES DIVISION
PLANS APPROVAL
BLD-25-0517072 9/3/2025
THIS SET OF PLANS MUST BE KEPT ON THE JOB AT ALL TIMES
It is unlawful to make changes or alterations without written approval from the City of Tampa Construction Services Division.
This Stamp is NOT a permit. In addition to this approval, you are required to permit and comply with all applicable codes of any City or State Codes.
REVIEWED FOR CODE COMPLIANCE

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ADG PROJECT NO. 1087
C.o.T. NO. 24-C-00032

PROJECT STATUS:
PERMIT DOCUMENTS

ISSUE DATE:
09/09/2024

REVISIONS:

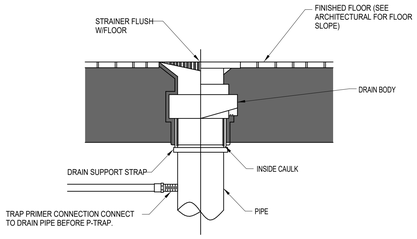
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TPD HOWARD AVENUE ANNEX BUILDING

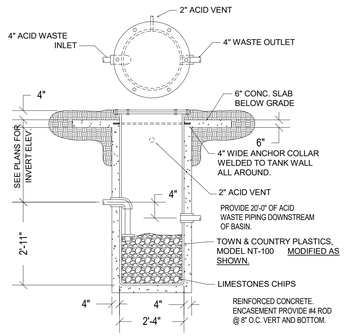
PLUMBING SCHEDULES

TRUE PROJECT NORTH:

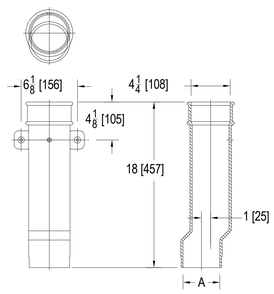
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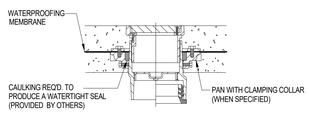
FLOOR DRAIN W/ TRAP PRIMER DETAIL
NOT TO SCALE



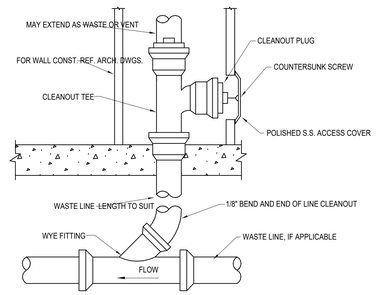
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NOT TO SCALE



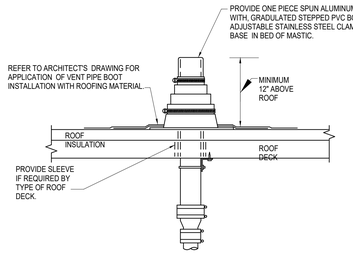
Downspout Boot Round Detail
Scale: None



FLOOR CLEANOUT DETAIL
NOT TO SCALE

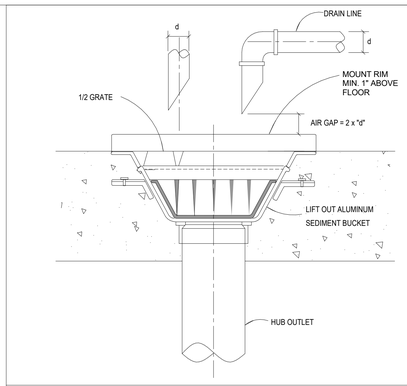


WALL CLEANOUT DETAIL
NOT TO SCALE

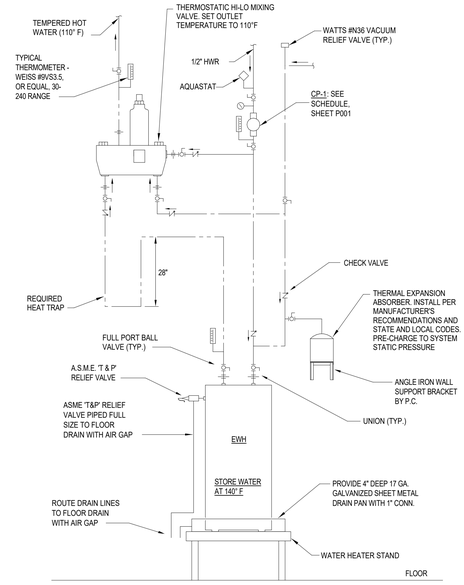


REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VENT THRU ROOF MINIMUM TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. PROVIDE 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET ON VENT PIPE INSIDE BUILDING WITHIN SIX FEET OF VENT THRU ROOF LOCATION. VERIFY FLASHING AND COUNTER FLASHING WITH ROOFING CONTRACTOR.

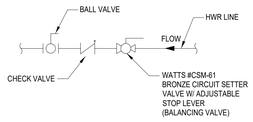
VENT THROUGH ROOF DETAIL
NOT TO SCALE



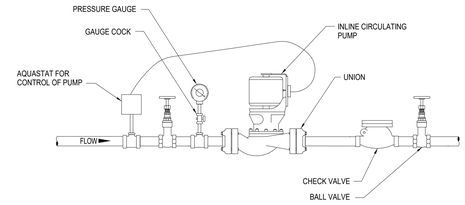
FLOOR SINK DETAIL
NOT TO SCALE



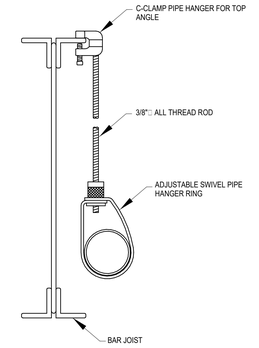
ELECTRIC WATER HEATER DETAIL
NOT TO SCALE



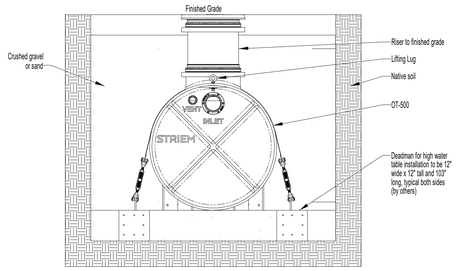
TYPICAL BALANCING VALVE RIG DETAIL
NOT TO SCALE



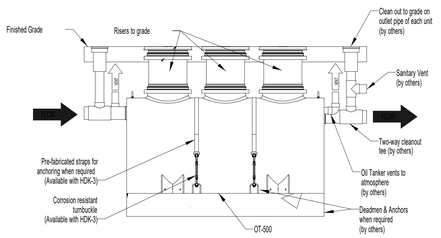
CIRCULATOR PUMP DETAIL
NOT TO SCALE

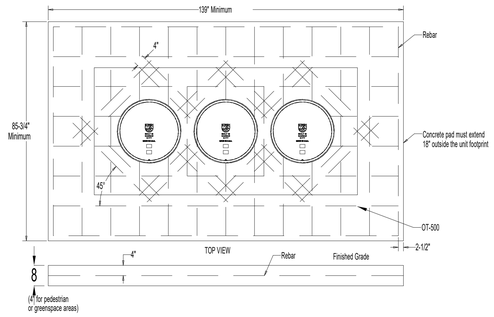


PIPE HANGER DETAIL
No Scale



EXCAVATION AND BACKFILL DETAIL





OIL INTERCEPTOR DETAIL
No Scale

CITY OF TAMPA
APPROVED SITE REVIEW ONLY, NOT VALID WITHOUT BUILDING PLANS
BLD-25-0517072
9/3/2025

City of Tampa
CONSTRUCTION SERVICES DIVISION
PLANS APPROVAL
BLD-25-0517072 9/3/2025
THIS SET OF PLANS MUST BE KEPT ON THE JOB AT ALL TIMES
It is unlawful to make changes or alterations without written approval from the City of Tampa Construction Services Division.
This Stamp is NOT a permit and does not authorize the holder to perform work. A permit must be held to permit work. Issuance is subject to the conditions of approval and all applicable codes of any City, or State Codes.
REVIEWED FOR CODE COMPLIANCE

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ADG PROJECT NO. **1087**
C.o.T. NO. **24-C-00032**

PROJECT STATUS:
PERMIT DOCUMENTS

ISSUE DATE:
09/09/2024

REVISIONS:

DRAWN BY: **TB**
CHECKED BY: **JH**

TPD HOWARD AVENUE ANNEX BUILDING

PLUMBING DETAILS

TRUE PROJECT NORTH:

P-801

ELECTRICAL SYMBOLS LEGEND

LIGHTING FIXTURES

-1'x4' LED FIXTURE
-2'x2' LED FIXTURE
-2'x4' LED FIXTURE
-4' WALL MOUNT LED LUMINAIRE
-4' WALL MOUNT LED LUMINAIRE, EMERGENCY
-1'x4' LED FIXTURE, BATTERY/EMERGENCY
-2'x2' LED FIXTURE, BATTERY/EMERGENCY
-2'x4' LED FIXTURE, BATTERY/EMERGENCY
-4' LED STRIP FIXTURE
-4' LED STRIP FIXTURE, BATTERY/EMERGENCY
-4' LED STRIP FIXTURE, WALL MOUNTED
-4' LED STRIP FIXTURE, WALL MOUNTED, BATTERY/EMERGENCY
-TRACK FIXTURE
-CEILING MOUNTED RECESSED, DOWN LIGHT
-CEILING MOUNTED RECESSED, EMERGENCY DOWN LIGHT
-CEILING MOUNTED RECESSED, WALL WASHER (ARROW INDICATES DIRECTION OF WASH)
-SURFACE MOUNTED LIGHTING FIXTURE
-WALL MOUNTED SCONCE FIXTURE, BATTERY/EMERGENCY
-FLOOD LIGHT FIXTURE
-EMERGENCY LIGHT FIXTURE
-SINGLE FACE EXIT LIGHT FIXTURE, ARROW INDICATES DIRECTION OF EGRESS
-DOUBLE FACE EXIT LIGHT FIXTURE, ARROW INDICATES DIRECTION OF EGRESS
-POLE MOUNTED SITE LIGHTING FIXTURE, RECTANGLES INDICATE NUMBER OF FIXTURES
-SINGLE POLE MOUNT LUMINAIRE, RECTANGLES INDICATE NUMBER OF FIXTURES
-POLE MOUNTED LUMINAIRE
-BOLLARD OR PENDANT LIGHT FIXTURE
-BOLLARD OR PENDANT LUMINAIRE, EMERGENCY

SWITCHES

-SWITCH
-SWITCH, 2 POLE
-SWITCH, 3-WAY
-SWITCH, 4-WAY
-SWITCH - LINE VOLTAGE TIMER, 120/277 VAC. WATTSTOPPER TS-400 OR EQUAL
-SWITCH - PILOT LIGHT
-SWITCH LEG a FOR CONTROL OF THE INBOARD LAMP IN NORMAL AND EMERGENCY POWERED LUMINAIRE
-SWITCH LEG b FOR CONTROL OF THE OUTBOARD LAMP IN NORMAL AND EMERGENCY POWERED LUMINAIRE
-SWITCH, 3-WAY, LEG a FOR CONTROL OF THE INBOARD LAMP IN NORMAL AND EMERGENCY POWERED LUMINAIRE
-SWITCH, 3-WAY, LEG b FOR CONTROL OF THE OUTBOARD LAMP IN NORMAL AND EMERGENCY POWERED LUMINAIRE
-SWITCH, KEYSWITCH, 3-WAY
-SWITCH, DIMMING 0-10V
-SWITCH, KEYSWITCH
-MOTOR RATED SWITCH
-SWITCH, EXPLOSION PROOF

LIGHTING CONTROL DEVICES

-PHOTOCELL
-TIMECLOCK
-"PIR-WALL MOUNT SENSOR, LOW TEMP, 24 VDC/AC, 20mA, WATTSTOPPER CB-100 OR EQUAL
-"PIR-CEILING MOUNT SENSOR 24 VDC/VAC, 11mA, WATTSTOPPER CI-205 OR EQUAL
-"DUAL ULTRASONIC/PIR-CEILING MOUNT SENSOR, 24 VDC/VAC, 35mA, WATTSTOPPER DT-305 OR EQUAL
-"DUAL ULTRASONIC/PIR-WALL MOUNT SENSOR, 24 VAC/VDC, 35mA, WATTSTOPPER DT-205 OR EQUAL
-"ULTRASONIC-CEILING CORRIDOR MOTION SENSOR, 24 VDC/VAC, 40mA, WATTSTOPPER WT-2250 OR EQUAL
-PIR-WALL SWITCH DECORATOR MOTION SENSOR, 120/277 VAC, 800/1200W, WATTSTOPPER PW-100 OR EQUAL
-DUAL ULTRASONIC/PIR-WALL SWITCH DECORATOR MOTION SENSOR, 120/277VAC, 800/1200W, WATTSTOPPER DW-100 OR EQUAL
-DUAL ULTRASONIC/PIR-DUAL RELAY WALL SWITCH DECORATOR MOTION SENSOR, 120/277VAC, 800/1200W, WATTSTOPPER DW-200 OR EQUAL
-DUAL ULTRASONIC/PIR-MULTI-WAY WALL SWITCH DECORATOR MOTION SENSOR, 120/277VAC, 800/1200W, WATTSTOPPER DW-103 OR EQUAL
-POWER PACK 120/277 VAC; 20 AMPS, 225mA SECONDARY, WATTSTOPPER BZ-150 OR EQUAL

-"FOR LOW VOLTAGE OCCUPANCY SENSORS, PROVIDE POWER PACK(S) 120/277 VAC; 20 AMPS, 225mA SECONDARY AS NEEDED FOR ZONE/AREA CONTROL, WATTSTOPPER BZ-150 OR EQUAL.

POWER DISTRIBUTION

-120/208V PANELBOARD, RECESSED
-120/208V PANELBOARD, SURFACE MOUNT
-277/480V PANELBOARD, SURFACE MOUNT
-277/480V PANELBOARD, RECESSED
-FEEDER OR BRANCH CIRCUIT CONCEALED IN WALL, CEILING OR FLOOR
1R1-1 -HOMERUN CONSISTING OF ONE SINGLE-PHASE, 1-POLE CIRCUIT: (2) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATION ARE INDICATED.
1M1-1:3 -HOMERUN CONSISTING OF ONE SINGLE-PHASE, 2-POLE CIRCUIT: (2) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.
1R1-1,3 -HOMERUN CONSISTING OF TWO SINGLE-PHASE CIRCUITS: (3) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATION ARE INDICATED.
1R1-1,3,5 -HOMERUN CONSISTING OF THREE SINGLE-PHASE CIRCUITS: (4) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.
1M1-1:3:5 -HOMERUN CONSISTING OF ONE THREE-PHASE CIRCUITS: (3) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.

ALERT SYSTEM

COORDINATE ALL ROUGHIN OF ALERT SYSTEM WITH USDD INSTALLATION DRAWINGS. ALL SYSTEM COMPONENTS ARE TO BE INSTALLED BY AUTHORIZED INSTALLER ONLY. COORDINATE WITH INSTALLATION INSTRUCTIONS TO PROVIDE APPROPRIATE BACKBOX FOR EACH DEVICE. COORDINATE WITH USDD FOR EXACT LOCATION AND ELEVATION OF ALL ROUGHIN BOXES.

S -CEILING-MOUNTED SPEAKER
S WP -WEATHER PROOF SPEAKER
S -CEILING-MOUNTED SPEAKER WITH LED
R -ROOM REMOTE
G -MESSAGE SIGN
H -G2 HDTV REMOTE
A -ALARM STROBE
P -PUSH BUTTON

POWER DEVICES

-SINGLE RECEPTACLE
-DUPLEX RECEPTACLE
-DOUBLE DUPLEX (QUAD) RECEPTACLE
-ABOVE COUNTER DUPLEX RECEPTACLE
-DUPLEX RECEPTACLE, HALF SWITCHED
-SPECIAL PURPOSE RECEPTACLE
-SINGLE 250V, NON-LOCKING TYPE RECEPTACLE
C -BLACK DUPLEX RECEPTACLE FOR COMPUTER WORKSTATION
C -BLACK QUAD RECEPTACLE FOR COMPUTER WORKSTATION
TV -DUPLEX RECEPTACLE FOR TV LOCATED AT 84" AFF, UNLESS NOTED OTHERWISE
TV -DUPLEX RECEPTACLE FOR TV LOCATED AT 18"AFF, LOCATE IN COMMON BOX WITH CCTV
-CEILING MOUNTED RECEPTACLE
F -RECESSED FLOOR RECEPTACLE
-DUPLEX RECEPTACLE, GROUND FAULT
-DUPLEX RECEPTACLE, GROUND FAULT, ABOVE COUNTER
-QUAD RECEPTACLE, GROUND FAULT
WP -DUPLEX RECEPTACLE, GROUND FAULT WITH CAST ALUMINUM WEATHERPROOF "IN USE" COVER
WP -QUAD RECEPTACLE, GROUND FAULT WITH CAST ALUMINUM WEATHERPROOF "IN USE" COVER
EWC -DUPLEX RECEPTACLE, GROUND FAULT LOCATE WITHIN ELECTRIC WATER COOLER PER MANUFACTURER'S INSTRUCTIONS
-CLOCK
PD -POWER/DATA POLE
-DISCONNECT SWITCH
-MOTOR STARTER
-STARTER/DISCONNECT SWITCH
J -JUNCTION BOX
J -FLOOR MOUNTED JUNCTION BOX
PB -PULL BOX
C -EQUIPMENT CONNECTION
-DOOR BELL PUSH BUTTON
T -TRANSFORMER
CH -DOOR BELL
ST -SHUNT TRIP
-ELECTRIC STRIKE
-MOTOR
G -GENERATOR
LB -LOCKBOX
-GROUND BUS BAR
-5/8"□ X 30'L GROUND ROD WITH TEST INSPECTION WELL
SPD -SURGE PROTECTION DEVICE, SEE SPECIFICATIONS

LIGHTNING PROTECTION

-AIR TERMINAL (ALUMINUM CLASS 1 MIN)
-ROOFTOP MAIN CONDUCTOR, RUN EXPOSED ACROSS ROOF
DN -DOWN CONDUCTOR, RUN CONCEALED IN STRUCTURE - COPPER CLASS 1
-3/4" X 20' COPPER-CLAD DRIVEN GROUND ROD AND TEST WELL
-BOLTED 3-WAY SPLICE
-BOLTED 4-WAY SPLICE

MISCELLANEOUS SYMBOLS

DETAIL NUMBER
SCALE:
DETAIL TITLE REFERENCE
SHEET NUMBER WHERE DETAIL IS REFERENCED
ADDITIONAL SHEET REFERENCES
DETAIL NUMBER
XX.XX
SHEET NUMBER WHERE DETAIL IS REFERENCED
MATCH LINE

ABBREVIATIONS

A	-AMPERES
AE	-AUDIO ENHANCEMENT
AFC	-ABOVE FINISHED CEILING
AFF	-ABOVE FINISHED FLOOR
AFG	-ABOVE FINISHED GRADE
AIC	-AMPERES INTERRUPTING CAPACITY
AL	-ALUMINUM
AWG	-AMERICAN WIRE GAUGE
BFC	-BELOW FINISHED CEILING
BFG	-BELOW FINISHED GRADE
C	-CONDUIT
CAB	-CABINET
CKT	-CIRCUIT
CLG	-CEILING
CL	-CENTERLINE
CT's	-CURRENT TRANSFORMERS
CU	-COPPER
DISC	-DISCONNECT(ING)
DWG	-DRAWING(S)
EA	-EACH
ECB	-ENCLOSED CIRCUIT BREAKER
EF	-EXHAUST FAN
EMT	-ELECTRICAL METALLIC TUBING
EQUIP	-EQUIPMENT
EUH	-ELECTRIC UNIT HEATER
EWC	-ELECTRIC WATER COOLER
EWH	-ELECTRIC WATER HEATER
EXH	-EXHAUST
EXIST	-EXISTING
EXP	-EXPLOSION PROOF
FA	-FIRE ALARM
FLA	-FULL LOAD AMPERES
FLUOR	-LED
GFCI	-GROUND FAULT CIRCUIT INTERRUPTER
GFP	-GROUND FAULT PROTECTION
GND	-GROUND
HGT	-HEIGHT
HID	-HIGH INTENSITY DISCHARGE
HPS	-HIGH PRESSURE SODIUM
HOA	-HAND-OFF-AUTOMATIC
HP	-HORSEPOWER
HVAC	-HEATING, VENTILATING, & AIR CONDITIONING
HV	-HIGH VOLTAGE
INC	-INCANDESCENT
JB	-JUNCTION BOX
kV	-KILO-VOLTS
kVA	-KILO-VOLTS-AMPERES
kVAR	-KILO-VOLTS-AMPERES REACTIVE
kW	-KILO-WATTS
kWH	-KILO-WATT-HOURS
LTG	-LIGHTING
m	-METER
mm	-MILLIMETER
MAX	-MAXIMUM
MCB	-MAIN CIRCUIT BREAKER
MCC	-MOTOR CONTROL CENTER
MCP	-MOTOR CIRCUIT PROTECTOR
MFR	-MANUFACTURER
MH	-METAL HALIDE
MIN	-MINIMUM
MISC	-MISCELLANEOUS
MMS	-MANUAL MOTOR STARTER SWITCH
MTR	-MOTOR
MTD	-MOUNTED
MTG	-MOUNTING
NAC	-NOTIFICATION APPLIANCE CIRCUIT
NEC	-NATIONAL ELECTRICAL CODE
NL	-NIGHT LIGHT, UNSWITCHED
PNL	-PANEL
PSI	-PULL STATION INSIDE
PVC	-POLYVINYL CHLORIDE
REC	-RECEPTACLE
RGS	-RIGID GALVANIZED STEEL
SPD	-SURGE PROTECTION DEVICE
TEL	-TELEPHONE
TYP	-TYPICAL
UON	-UNLESS OTHERWISE NOTED
V	-VOLTS
VA	-VOLT-AMPERES
VFD	-VARIABLE FREQUENCY DRIVE
W	-WATTS
WP	-WEATHER PROOF
XFMR	-TRANSFORMER

GENERAL NOTES:

1. VOLTAGE DROP - FEEDERS AND BRANCH CIRCUITS SIZES ARE DESIGNED FOR A MAXIMUM COMBINED VOLTAGE DROP OF 5 PERCENT AT THE DESIGN LOAD PER F.B.C. ENERGY CONSERVATION C405.6.3
2. DESIGNED IN ACCORDANCE WITH F.B.C. 7th EDITION (2020) AND NFPA 70 (2017 NEC)
3. SEE SPECIFICATIONS FOR ALL PROJECT REQUIREMENTS.

PREMISE DISTRIBUTION SYSTEM

TO THE BEST KNOWLEDGE AND UNDERSTANDING OF THE EOR, THESE DRAWINGS AND SPECIFICATIONS HAVE ALL THE INFORMATION REQUIRED BY FAC 61G15-33.005, INCLUDING BUT NOT LIMITED TO:
1) COMMUNICATIONS SYSTEMS ARE DESIGNED IN THE DRAWINGS AND SPECIFICATIONS PER FBC SEVENTH EDITION AND OTHER CODES AND STANDARDS LISTED IN SPECIFICATION SECTIONS 27 26 26 PART 1.1 AND 27 41 33 PART 1.5.
2) DRAWING AND SPECIFICATIONS CONTAIN:
a) SYSTEM RISERS (SHEET E-501).
b) SYMBOL LEGEND (E-001).
c) CABLING REQUIREMENTS (27 26 26 PART 2 AND 27 41 33 PART 1.3, 2.4)
d) DEVICE TYPE AND LOCATIONS (27 26 26 PART 2, 27 41 33 PART 2.2).
e) BACKUP POWER SOURCES ARE OWNER PROVIDED ON THIS PROJECT.
f) INSTALLATION, IDENTIFICATION, AND TESTING REQUIREMENTS (27 26 26 PARTS 1 AND 3, 27 41 33 PART 3)
g) SURGE PROTECTION (27 26 26 PART 2.5 AND 27 41 33 PART 2.6)

C X N -MOUNTING 3" ABOVE COUNTER OR BACK SPLASH
X = MOUNTING (F)LUSH, (S)URFACE, (M)ODULAR FURNITURE ADAPTER (P)OLE, (R)ACEWAY, (D)OUBLE GANG FLUSH, (PD) PEDESTAL
N = # OF DATA JACKS

COMMUNICATIONS "INFORMATION OUTLET" MOUNTED. AT RECEPTACLE HEIGHT UNLESS OTHERWISE NOTED. MODULE AND FACEPLATE

SPECIAL NOTES:

1. DATA JACKS:
EACH RJ45 CAT6 JACK FOR DATA SHALL BE CONNECTED TO A DEDICATED UTP 4 PR CAT6 CABLE

WAP -WIRELESS ACCESS POINT. PROVIDE CAT 6 CABLE HOMERUN TO IDF AND TERMINATE WITH RJ45 JACK FLUSH CEILING MOUNTED, WITH 10' OF COILED CABLE ABOVE CEILING.

W F1 -WALL TELEPHONE OUTLET FOR HOUSE PHONE. MOUNTED AT 52" ABOVE FINISHED FLOOR TO TOP.

WAP -WIRELESS ACCESS POINT WALL MOUNTED 10'-0" TO 12'-0" ABOVE FINISHED FLOOR PROVIDE CAT 6 CABLE HOMERUN TO IDF AND TERMINATE TO RJ45 JACK FLUSH ON WALL.

SX -WALL DATA OUTLET. SURFACE MOUNTED AT 48" ABOVE FINISHED FLOOR TO TOP OF BACKBOX. X = # OF DATA JACKS

-FLOOR BOX DATA OUTLET. DATA OUTLET INSTALLED IN FLOOR BOX WITH UTP HOMERUN TO COMM ROOM. X = # OF DATA JACKS

-3/4" PLYWOOD BACKBOARD, FIRE RETARDANT.

-IDF - 2 POST RACK

-TELEVISION OUTLET, RG6 CABLE TO COMMUNICATIONS ROOM

FIRE ALARM SYSTEM

TO THE BEST KNOWLEDGE AND UNDERSTANDING OF THE EOR, THESE DRAWINGS AND SPECIFICATIONS HAVE ALL THE INFORMATION REQUIRED BY FAC 61G15-32.008, INCLUDING BUT NOT LIMITED TO:
1) FIRE ALARM SYSTEM BASED ON OCCUPANCY AND CLASSIFICATIONS LISTED IN LIFE SAFETY PLAN.
2) PLANS AND SPECIFICATIONS DESIGNED TO:
a. FBC SEVENTH EDITION
b. FLORIDA FIRE PREVENTION CODE SEVENTH EDITION
c. OTHER CODES AND STANDARDS LISTED IN SPECIFICATION SECTION 28 31 11 PART 1.3
3) PROJECT WILL REQUIRE ENGINEERED SHOP DRAWINGS FROM A QUALIFIED INSTALLER.
4) DRAWING AND SPECIFICATIONS CONTAIN:
a) SYMBOL LEGEND (SHEET E-001), SYSTEM RISER (E-501), AND SPECIFICATIONS (28 31 11) FOR ALL SYSTEM REQUIREMENTS.
b) FLOOR PLANS (E-301, E-302) FOR INITIATION AND NOTIFICATION DEVICE LOCATIONS, AS WELL AS CONTROL AND MONITORING DEVICES.
c) STROBE INTENSITY, 75 CANDELA FOR ALL DEVICES, UNLESS OTHERWISE NOTED, AND SPEAKER OUTPUT REQUIREMENTS (28 31 11 PART 2)
d) SYSTEM TO HAVE CLASS B CIRCUITS.
e) FUNCTION OF SYSTEM (28 31 11 PART 1).
f) SYSTEM TO BE ADDRESSABLE.
g) SURGE PROTECTION (28 31 11 PART 2 AND E601).
h) ENVIRONMENTAL REQUIREMENTS (28 31 11 PART 2)
i) SITE PLAN (E-100)
j) SMOKE DETECTION INSTALLATION REQUIREMENTS (28 31 11 PART 3)
k) SMOKE STRATIFICATION IS NOT ANTICIPATED FOR THIS PROJECT
l) SYSTEM IS NOT DESIGNED USING PERFORMANCE-BASED CRITERIA
m) SYSTEM WILL ONLY HAVE A GENERAL EVACUATION SIGNAL.
n) WIRING REQUIREMENTS (28 31 11 PARTS 2 AND 3)
o) O&M AND TRAINING REQUIREMENTS (28 31 11 PART 3)
5) VOLTAGE DROP AND BATTERY CALCULATIONS TO BE PROVIDED IN CONTRACTOR PERMIT AND SHOP DRAWINGS.
6) SYSTEM TEST REQUIREMENTS (28 31 11 PART 3)
7) SPECIAL OWNER REQUIREMENTS (28 31 11 PART 1)

P -MANUAL FIRE ALARM PULL STATION
-FIRE ALARM COMBINATION HORN/STROBE DEVICE (75 CANDELA MINIMUM, 110 CANDELA WHERE NOTED) UNLESS NOTED OTHERWISE
F -FIRE ALARM STROBE ONLY, 75 CANDELA MINIMUM UNLESS NOTED OTHERWISE
LF -FIRE ALARM LOW FREQUENCY DEVICE
F -135° HEAT DETECTOR
-SMOKE DETECTOR
AL -COMBINATION SMOKE ALARM/ CO DETECTOR, 120V, W/BATTERY BACKUP. TO BE CONNECTED TO FIRE ALARM SYSTEM.
-DUCT SMOKE DETECTOR - "R" = RETURN, "S" = SUPPLY. PROVIDE LED SUPERVISORY INDICATOR FOR BOTH DETECTORS IN AN ACCESSIBLE LOCATION AND CLEARLY LABELED.
CM -CONTROL MODULE RELAY
WF -WEATHERPROOF WATER FLOW SWITCH MONITOR MODULE CONNECTED TO FIRE SPRINKLER SYSTEM
VS -WEATHERPROOF TAMPER SWITCH MONITOR MODULE CONNECTED TO FIRE SPRINKLER SYSTEM
KB -KNOXBOX WITH TAMPER SWITCH MOUNTED 8'-0" TO 12'-0" ABOVE FINISHED GRADE.
"FACP" -FIRE ALARM CONTROL PANEL "FACP"
"FAAN" -FIRE ALARM ANNUNCIATOR "FAAN"
CO -CEILING MOUNTED CO2 SENSOR

SCOPE OF WORK:

PROVIDE NEW ELECTRICAL SERVICE FOR TAMPA PD EVIDENCE AND FORENSICS BUILDING. COORDINATE WITH ELECTRICAL UTILITY PROVIDER FOR UTILITY TRANSFORMER LOCATION AND CONNECTION REQUIREMENTS. PROVIDE ELECTRICAL CONNECTIONS FOR ALL EQUIPMENT, RECEPTACLES, LIGHTING, AND ASSOCIATED ELECTRICAL DISTRIBUTION.

Electrical Sheet Index

Sheet Number	Sheet Name
E-001	ELECTRICAL SYMBOLS AND SPECIFICATIONS
E-002	ELECTRICAL SYMBOLS AND SPECIFICATIONS
ED-101	DEMO ELECTRICAL PLAN
E-101	ELECTRICAL SITE PLAN - NORTH
E-102	ELECTRICAL SITE PLAN - SOUTH
E-103	ELECTRICAL SITE PLAN - PHOTOMETRICS
E-104	ELECTRICAL LIGHTING DETAILS
E-105	ELECTRICAL LIGHTING DETAILS
E-201	LIGHTING FLOOR PLAN AREA A&C
E-202	LIGHTING FLOOR PLAN AREA B
E-203P	LIGHTING FLOOR PLAN AREA A&C PHOTOMETRICS
E-204P	LIGHTING FLOOR PLAN AREA B PHOTOMETRICS
E-301	POWER FLOOR PLAN AREA A&C
E-302	POWER FLOOR PLAN AREA B
E-303	ELECTRICAL ROOF PLAN - LIGHTNING PROTECTION
E-401	ELECTRICAL ENLARGED PLANS
E-501	ELECTRICAL ONE LINE DIAGRAM
E-601	ELECTRICAL DISTRIBUTION AND FEEDER SCHEDULE
E-701	ELECTRICAL PANEL SCHEDULES
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E-801	ELECTRICAL DETAILS
E-802	ELECTRICAL DETAILS
E-803	ELECTRICAL DETAILS
E-804	ELECTRICAL DETAILS
E-805	ELECTRICAL DETAILS

Luminaire Schedule

Symbol	[MANUFAC]	Label	Description	LLF	Lum. Watts	Lum. Lumens
	Lithonia Lighting	2C-H	CSS L48 ALO3 MVOLT SWW3 80CRI; (5000LM 3500K)	1.000	41.99	4857
	Lithonia Lighting	2C-M	CSS L48 ALO3 MVOLT SWW3 80CRI; (4000LM 3500K)	1.000	34.2	4069
	Lithonia Lighting	2E-H	CSS L96 ALO4 MVOLT SWW3 80CRI; (10000LM 3500K)	1.000	83.98	9714
	Lithonia Lighting	2E-L	CSS L96 ALO4 MVOLT SWW3 80CRI; (6000LM 3500K)	1.000	48.52	6101
	Lithonia Lighting	2E-M	CSS L96 ALO4 MVOLT SWW3 80CRI; (8000LM 3500K)	1.000	70.53	8177
	Lithonia Lighting	B1-H	CPX 2X2 ALO7 80CRI SWW7 SWL MVOLT; 3500K High Lumen	1.000	37.5	4131
	Lithonia Lighting	B1-L	CPX 2X2 ALO7 80CRI SWW7 SWL MVOLT; 3500K Low Lumen	1.000	19.1	2399
	Lithonia Lighting	B1-M	CPX 2X2 ALO7 80CRI SWW7 SWL MVOLT; 3500K Med Lumen	1.000	28.7	3356
	Gotham Architectural Lighting	D1	EVOSH 35/10 DFR SOL MVOLT EZ1	1.000	14.7	637
	Gotham Architectural Lighting	D2	EVO4 35/05 AR LSS MD MVOLT GZ1	1.000	7.2	545
	Gotham Architectural Lighting	DA	EVO6 35/10 AR LSS MWD GZ10	1.000	9.6	946
	Gotham Architectural Lighting	DB	EVO6 35/15 AR LSS MWD GZ10	1.000	14.7	1399
	Lithonia Lighting	V24	FMVCCLS 24IN MVOLT 30K35K40K	1.000	16.12	1737
	Lithonia Lighting	V36	FMVCCLS 36IN MVOLT 30K35K40K	1.000	24.36	2660
	Lithonia Lighting	W51	WW2 LED P3 40K MVOLT	1.000	49	5250
	Lithonia Lighting	X1	BE WH UM M2			

Site Luminaire Schedule

Symbol	[MANUFAC]	Label	Arrangement	Description	LLF	Lum. Watts	Lum. Lumens
	LF Illumination	C1	Single	S811-1SA0-T-20L-8040-W-DMU-SS	1.000	20.7	995
	Lithonia Lighting	C2	Single	DMW2 L24 2000LM ACL MD MVOLT GZ10 40K 80CRI NLTAIR2 RSBOR10	1.000	18.78	2613
	Lithonia Lighting	SLA	Single	DSX0 LED P7 40K 70CRI T3M MVOLT RPA NLTAIR2 PIRHN FINISH TBD: MOUNTED 30' AFG ON RTA DIRECT BURIAL POLE	1.000	170.81	20318
	Lithonia Lighting	SLB	Single	DSX0 LED P7 40K 70CRI TFTM MVOLT RPA NLTAIR2 PIRHN FINISH TBD: MOUNTED 30' AFG ON RTA DIRECT BURIAL POLE	1.000	170.81	20763
	Lithonia Lighting	SLC	Single	DSX0 LED P7 40K 70CRI BLC4 MVOLT RPA NLTAIR2 PIRHN FINISH TBD: MOUNTED 30' AFG ON RTA DIRECT BURIAL POLE	1.000	170.81	15261
	Lithonia Lighting	SLD	Back/Back	DSX0 LED P7 40K 70CRI T5W MVOLT RPA NLTAIR2 PIRHN FINISH TBD: MOUNTED 30' AFG ON RTA DIRECT BURIAL POLE	1.000	170.81	21557
	Lithonia Lighting	WA	Single	WDGE2 LED P1 40K 70CRI T1S MVOLT SRM NLTAIR2 PIR	1.000	11.1658	1371
	Lithonia Lighting	WB	Single	WDGE2 LED P2 40K 70CRI TFTM MVOLT SRM NLTAIR2 PIR	1.000	18.9815	2291
	Lithonia Lighting	WC	Single	WDGE2 LED P3 40K 80CRI T3M MVOLT SRM NLTAIR2 PIR	1.000	32.1375	3216

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

(1) CONTRACTOR SHALL CAREFULLY COORDINATE THE LIGHTING FIXTURE TRIM TYPES WITH THE TYPE OF CEILING WHERE THE LIGHTING FIXTURES ARE TO BE INSTALLED. MODIFY FIXTURE CATALOG NUMBER AS REQUIRED TO COORDINATE FIXTURE WITH CEILING.

(2) CONTRACTOR, AT HIS OPTION, MAY USE A U.L. LISTED FLEXIBLE WIRING SYSTEM FOR LIGHTING FIXTURE BRANCH CIRCUITRY ABOVE ACCESSIBLE LAY-IN CEILINGS. ALL HOMERUNS, CONNECTIONS TO LIGHT SWITCHES, AND BRANCH CIRCUITRY FOR ALL OTHER CEILING CONDITIONS SHALL BE IN A CONVENTIONAL RACEWAY SYSTEM PER SPECIFICATIONS.

(3) WHEN FIXTURE MODEL NUMBER DIFFERS FROM FIXTURE DESCRIPTION, CONTRACTOR IS TO SUBMIT RFI REQUESTING CLARIFICATION PRIOR TO BID, PRIOR TO SHOP DRAWING SUBMITTAL AND PRIOR TO ORDERING OF FIXTURE. WHERE CONTRACTOR DOES NOT REQUEST CLARIFICATION PRIOR TO BID, CONTRACTOR SHALL PROVIDE THE MOST EXPENSIVE OPTION BETWEEN A FIXTURE THAT MATCHES THE DESCRIPTION AND FIXTURE THAT MATCHES THE MODEL NUMBER.

APPROVED
By Nate Rupe at 8/21/2025 4:02:30 PM

CITY OF TAMPA
APPROVED SITE REVIEW ONLY, NOT VALID FOR PERMIT
BUILDING PLANS
BLD-25-0517072
9/3/2025

City of Tampa
CONSTRUCTION SERVICES DIVISION
PLANS APPROVAL
BLD-25-0517072 9/3/2025
THIS SET OF PLANS MUST BE KEPT ON THE JOB SITE AT ALL TIMES
It is unlawful to make changes or alterations without written approval from the City of Tampa Construction Services Division.
This Stamp of Approval does not authorize the holder to perform work in violation of any City or State Codes.
REVIEWED FOR CODE COMPLIANCE

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Winter Park, Florida 32789
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SGM #: 2023-335
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Date: 2025.08.17 10:30:39-04'00'

JUSTIN L MUNDELL FL-70700

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ADG PROJECT NO. 1087
C.o.T. NO. 24-C-00032

PROJECT STATUS:
PERMIT DOCUMENTS

ISSUE DATE:
09/09/2024

REVISIONS:

2	8/18/2025	PERMIT COMMENTS

DRAWN BY: SN
CHECKED BY: JLM

TPD HOWARD AVENUE ANNEX BUILDING

ELECTRICAL SYMBOLS AND SPECIFICATIONS

TRUE PROJECT NORTH:

E-001

ELECTRICAL SYMBOLS LEGEND

LIGHTING FIXTURES

-1'x4' LED FIXTURE
-2'x2' LED FIXTURE
-2'x4' LED FIXTURE
-4' WALL MOUNT LED LUMINAIRE
-4' WALL MOUNT LED LUMINAIRE, EMERGENCY
-1'x4' LED FIXTURE, BATTERY/EMERGENCY
-2'x2' LED FIXTURE, BATTERY/EMERGENCY
-2'x4' LED FIXTURE, BATTERY/EMERGENCY
-4' LED STRIP FIXTURE
-4' LED STRIP FIXTURE, BATTERY/EMERGENCY
-4' LED STRIP FIXTURE, WALL MOUNTED
-4' LED STRIP FIXTURE, WALL MOUNTED, BATTERY/EMERGENCY
-TRACK FIXTURE
-CEILING MOUNTED RECESSED, DOWN LIGHT
-CEILING MOUNTED RECESSED, EMERGENCY DOWN LIGHT
-CEILING MOUNTED RECESSED, WALL WASHER (ARROW INDICATES DIRECTION OF WASH)
-SURFACE MOUNTED LIGHTING FIXTURE
-WALL MOUNTED SCONCE FIXTURE, BATTERY/EMERGENCY
-FLOOD LIGHT FIXTURE
-EMERGENCY LIGHT FIXTURE
-SINGLE FACE EXIT LIGHT FIXTURE, ARROW INDICATES DIRECTION OF EGRESS
-DOUBLE FACE EXIT LIGHT FIXTURE, ARROW INDICATES DIRECTION OF EGRESS
-POLE MOUNTED SITE LIGHTING FIXTURE, RECTANGLES INDICATE NUMBER OF FIXTURES
-SINGLE POLE MOUNT LUMINAIRE, RECTANGLES INDICATE NUMBER OF FIXTURES
-POLE MOUNTED LUMINAIRE
-BOLLARD OR PENDANT LIGHT FIXTURE
-BOLLARD OR PENDANT LUMINAIRE, EMERGENCY

SWITCHES

-SWITCH
-SWITCH, 2 POLE
-SWITCH, 3-WAY
-SWITCH, 4-WAY
-SWITCH - LINE VOLTAGE TIMER, 120/277 VAC. WATTSTOPPER TS-400 OR EQUAL
-SWITCH - PILOT LIGHT
-SWITCH LEG a FOR CONTROL OF THE INBOARD LAMP IN NORMAL AND EMERGENCY POWERED LUMINAIRE
-SWITCH LEG b FOR CONTROL OF THE OUTBOARD LAMP IN NORMAL AND EMERGENCY POWERED LUMINAIRE
-SWITCH, 3-WAY, LEG a FOR CONTROL OF THE INBOARD LAMP IN NORMAL AND EMERGENCY POWERED LUMINAIRE
-SWITCH, 3-WAY, LEG b FOR CONTROL OF THE OUTBOARD LAMP IN NORMAL AND EMERGENCY POWERED LUMINAIRE
-SWITCH, KEYSWITCH, 3-WAY
-SWITCH, DIMMING 0-10V
-SWITCH, KEYSWITCH
-MOTOR RATED SWITCH
-SWITCH, EXPLOSION PROOF

LIGHTING CONTROL DEVICES

-PHOTOCELL
-TIMECLOCK
-"PIR-WALL MOUNT SENSOR, LOW TEMP, 24 VDC/AC, 20mA, WATTSTOPPER CB-100 OR EQUAL
-"PIR-CEILING MOUNT SENSOR 24 VDC/VAC, 11mA, WATTSTOPPER CI-205 OR EQUAL
-"DUAL ULTRASONIC/PIR-CEILING MOUNT SENSOR, 24 VDC/VAC, 35mA, WATTSTOPPER DT-305 OR EQUAL
-"DUAL ULTRASONIC/PIR-WALL MOUNT SENSOR, 24 VAC/VDC, 35mA, WATTSTOPPER DT-205 OR EQUAL
-"ULTRASONIC-CEILING CORRIDOR MOTION SENSOR, 24 VDC/VAC, 40mA, WATTSTOPPER WT-2250 OR EQUAL
-PIR-WALL SWITCH DECORATOR MOTION SENSOR, 120/277 VAC, 800/1200W, WATTSTOPPER PW-100 OR EQUAL
-DUAL ULTRASONIC/PIR-WALL SWITCH DECORATOR MOTION SENSOR, 120/277VAC, 800/1200W, WATTSTOPPER DW-100 OR EQUAL
-DUAL ULTRASONIC/PIR-DUAL RELAY WALL SWITCH DECORATOR MOTION SENSOR, 120/277VAC, 800/1200W, WATTSTOPPER DW-200 OR EQUAL
-DUAL ULTRASONIC/PIR-MULTI-WAY WALL SWITCH DECORATOR MOTION SENSOR, 120/277VAC, 800/1200W, WATTSTOPPER DW-103 OR EQUAL
-POWER PACK 120/277 VAC; 20 AMPS, 225mA SECONDARY, WATTSTOPPER BZ-150 OR EQUAL

-"FOR LOW VOLTAGE OCCUPANCY SENSORS, PROVIDE POWER PACK(S) 120/277 VAC; 20 AMPS, 225mA SECONDARY AS NEEDED FOR ZONE/AREA CONTROL, WATTSTOPPER BZ-150 OR EQUAL.

POWER DISTRIBUTION

-120/208V PANELBOARD, RECESSED
-120/208V PANELBOARD, SURFACE MOUNT
-277/480V PANELBOARD, SURFACE MOUNT
-277/480V PANELBOARD, RECESSED
-FEEDER OR BRANCH CIRCUIT CONCEALED IN WALL, CEILING OR FLOOR
1R1-1 -HOMERUN CONSISTING OF ONE SINGLE-PHASE, 1-POLE CIRCUIT: (2) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATION ARE INDICATED.
1M1-1:3 -HOMERUN CONSISTING OF ONE SINGLE-PHASE, 2-POLE CIRCUIT: (2) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.
1R1-1,3 -HOMERUN CONSISTING OF TWO SINGLE-PHASE CIRCUITS: (3) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATION ARE INDICATED.
1R1-1,3,5 -HOMERUN CONSISTING OF THREE SINGLE-PHASE CIRCUITS: (4) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.
1M1-1:3:5 -HOMERUN CONSISTING OF ONE THREE-PHASE CIRCUITS: (3) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.

ALERT SYSTEM

COORDINATE ALL ROUGHIN OF ALERT SYSTEM WITH USDD INSTALLATION DRAWINGS. ALL SYSTEM COMPONENTS ARE TO BE INSTALLED BY AUTHORIZED INSTALLER ONLY. COORDINATE WITH INSTALLATION INSTRUCTIONS TO PROVIDE APPROPRIATE BACKBOX FOR EACH DEVICE. COORDINATE WITH USDD FOR EXACT LOCATION AND ELEVATION OF ALL ROUGHIN BOXES.

S -CEILING-MOUNTED SPEAKER
S WP -WEATHER PROOF SPEAKER
S -CEILING-MOUNTED SPEAKER WITH LED
R -ROOM REMOTE
G -MESSAGE SIGN
H -G2 HDTV REMOTE
A -ALARM STROBE
P -PUSH BUTTON

POWER DEVICES

-SINGLE RECEPTACLE
-DUPLEX RECEPTACLE
-DOUBLE DUPLEX (QUAD) RECEPTACLE
-ABOVE COUNTER DUPLEX RECEPTACLE
-DUPLEX RECEPTACLE, HALF SWITCHED
-SPECIAL PURPOSE RECEPTACLE
-SINGLE 250V, NON-LOCKING TYPE RECEPTACLE
C -BLACK DUPLEX RECEPTACLE FOR COMPUTER WORKSTATION
C -BLACK QUAD RECEPTACLE FOR COMPUTER WORKSTATION
TV -DUPLEX RECEPTACLE FOR TV LOCATED AT 84" AFF, UNLESS NOTED OTHERWISE
TV -DUPLEX RECEPTACLE FOR TV LOCATED AT 18"AFF, LOCATE IN COMMON BOX WITH CCTV
-CEILING MOUNTED RECEPTACLE
F -RECESSED FLOOR RECEPTACLE
-DUPLEX RECEPTACLE, GROUND FAULT
-DUPLEX RECEPTACLE, GROUND FAULT, ABOVE COUNTER
-QUAD RECEPTACLE, GROUND FAULT
WP -DUPLEX RECEPTACLE, GROUND FAULT WITH CAST ALUMINUM WEATHERPROOF "IN USE" COVER
WP -QUAD RECEPTACLE, GROUND FAULT WITH CAST ALUMINUM WEATHERPROOF "IN USE" COVER
EWC -DUPLEX RECEPTACLE, GROUND FAULT LOCATE WITHIN ELECTRIC WATER COOLER PER MANUFACTURER'S INSTRUCTIONS
-CLOCK
PD -POWER/DATA POLE
-DISCONNECT SWITCH
-MOTOR STARTER
-STARTER/DISCONNECT SWITCH
-JUNCTION BOX
-FLOOR MOUNTED JUNCTION BOX
PB -PULL BOX
-EQUIPMENT CONNECTION
-DOOR BELL PUSH BUTTON
T -TRANSFORMER
CH -DOOR BELL
ST -SHUNT TRIP
-ELECTRIC STRIKE
-MOTOR
G -GENERATOR
LB -LOCKBOX
-GROUND BUS BAR
-5/8"□ X 30'L GROUND ROD WITH TEST INSPECTION WELL
SPD -SURGE PROTECTION DEVICE, SEE SPECIFICATIONS

LIGHTNING PROTECTION

-AIR TERMINAL (ALUMINUM CLASS 1 MIN)
-ROOFTOP MAIN CONDUCTOR, RUN EXPOSED ACROSS ROOF
DN -DOWN CONDUCTOR, RUN CONCEALED IN STRUCTURE - COPPER CLASS 1
-3/4" X 20' COPPER-CLAD DRIVEN GROUND ROD AND TEST WELL
-BOLTED 3-WAY SPLICE
-BOLTED 4-WAY SPLICE

MISCELLANEOUS SYMBOLS

DETAIL NUMBER
SCALE:
DETAIL TITLE REFERENCE
SHEET NUMBER WHERE DETAIL IS REFERENCED
ADDITIONAL SHEET REFERENCES
DETAIL NUMBER
XX XX
SHEET NUMBER WHERE DETAIL IS REFERENCED
MATCH LINE

ABBREVIATIONS

A	-AMPERES
AE	-AUDIO ENHANCEMENT
AFC	-ABOVE FINISHED CEILING
AFF	-ABOVE FINISHED FLOOR
AFG	-ABOVE FINISHED GRADE
AIC	-AMPERES INTERRUPTING CAPACITY
AL	-ALUMINUM
AWG	-AMERICAN WIRE GAUGE
BFC	-BELOW FINISHED CEILING
BFG	-BELOW FINISHED GRADE
C	-CONDUIT
CAB	-CABINET
CKT	-CIRCUIT
CLG	-CEILING
CL	-CENTERLINE
CT's	-CURRENT TRANSFORMERS
CU	-COPPER
DISC	-DISCONNECT(ING)
DWG	-DRAWING(S)
EA	-EACH
ECB	-ENCLOSED CIRCUIT BREAKER
EF	-EXHAUST FAN
EMT	-ELECTRICAL METALLIC TUBING
EQUIP	-EQUIPMENT
EUH	-ELECTRIC UNIT HEATER
EWC	-ELECTRIC WATER COOLER
EWH	-ELECTRIC WATER HEATER
EXH	-EXHAUST
EXIST	-EXISTING
EXP	-EXPLOSION PROOF
FA	-FIRE ALARM
FLA	-FULL LOAD AMPERES
FLUOR	-LED
GFCI	-GROUND FAULT CIRCUIT INTERRUPTER
GFP	-GROUND FAULT PROTECTION
GND	-GROUND
HGT	-HEIGHT
HID	-HIGH INTENSITY DISCHARGE
HPS	-HIGH PRESSURE SODIUM
HOA	-HAND-OFF-AUTOMATIC
HP	-HORSEPOWER
HVAC	-HEATING, VENTILATING, & AIR CONDITIONING
HV	-HIGH VOLTAGE
INC	-INCANDESCENT
JB	-JUNCTION BOX
kV	-KILO-VOLTS
kVA	-KILO-VOLTS-AMPERES
kVAR	-KILO-VOLTS-AMPERES REACTIVE
kW	-KILO-WATTS
kWH	-KILO-WATT-HOURS
LTG	-LIGHTING
m	-METER
mm	-MILLIMETER
MAX	-MAXIMUM
MCB	-MAIN CIRCUIT BREAKER
MCC	-MOTOR CONTROL CENTER
MCP	-MOTOR CIRCUIT PROTECTOR
MFR	-MANUFACTURER
MH	-METAL HALIDE
MIN	-MINIMUM
MISC	-MISCELLANEOUS
MMS	-MANUAL MOTOR STARTER SWITCH
MTR	-MOTOR
MTD	-MOUNTED
MTG	-MOUNTING
NAC	-NOTIFICATION APPLIANCE CIRCUIT
NEC	-NATIONAL ELECTRICAL CODE
NL	-NIGHT LIGHT, UNSWITCHED
PNL	-PANEL
PSI	-PULL STATION INSIDE
PVC	-POLYVINYL CHLORIDE
REC	-RECEPTACLE
RGS	-RIGID GALVANIZED STEEL
SPD	-SURGE PROTECTION DEVICE
TEL	-TELEPHONE
TYP	-TYPICAL
UON	-UNLESS OTHERWISE NOTED
V	-VOLTS
VA	-VOLT-AMPERES
VFD	-VARIABLE FREQUENCY DRIVE
W	-WATTS
WP	-WEATHER PROOF
XFMR	-TRANSFORMER

GENERAL NOTES:

1. VOLTAGE DROP - FEEDERS AND BRANCH CIRCUITS SIZES ARE DESIGNED FOR A MAXIMUM COMBINED VOLTAGE DROP OF 5 PERCENT AT THE DESIGN LOAD PER F.B.C. ENERGY CONSERVATION C405.6.3
2. DESIGNED IN ACCORDANCE WITH F.B.C. 7th EDITION (2020) AND NFPA 70 (2017 NEC)
3. SEE SPECIFICATIONS FOR ALL PROJECT REQUIREMENTS.

PREMISE DISTRIBUTION SYSTEM

TO THE BEST KNOWLEDGE AND UNDERSTANDING OF THE EOR, THESE DRAWINGS AND SPECIFICATIONS HAVE ALL THE INFORMATION REQUIRED BY FAC 61G15-33.005, INCLUDING BUT NOT LIMITED TO:
1) COMMUNICATIONS SYSTEMS ARE DESIGNED IN THE DRAWINGS AND SPECIFICATIONS PER FBC SEVENTH EDITION AND OTHER CODES AND STANDARDS LISTED IN SPECIFICATION SECTIONS 27 26 26 PART 1.1 AND 27 41 33 PART 1.5.
2) DRAWING AND SPECIFICATIONS CONTAIN:
a) SYSTEM RISERS (SHEET E-501).
b) SYMBOL LEGEND (E-001).
c) CABLING REQUIREMENTS (27 26 26 PART 2 AND 27 41 33 PART 1.3, 2.4)
d) DEVICE TYPE AND LOCATIONS (27 26 26 PART 2, 27 41 33 PART 2.2).
e) BACKUP POWER SOURCES ARE OWNER PROVIDED ON THIS PROJECT.
f) INSTALLATION, IDENTIFICATION, AND TESTING REQUIREMENTS (27 26 26 PARTS 1 AND 3, 27 41 33 PART 3)
g) SURGE PROTECTION (27 26 26 PART 2.5 AND 27 41 33 PART 2.6)

MOUNTING 3" ABOVE COUNTER OR BACK SPLASH
X = MOUNTING (F)LUSH, (S)URFACE, (M)ODULAR FURNITURE ADAPTER (P)OLE, (R)ACEWAY, (D)OUBLE GANG FLUSH, (PD) PEDESTAL
N = # OF DATA JACKS
C X N
COMMUNICATIONS "INFORMATION OUTLET" MOUNTED. AT RECEPTACLE HEIGHT UNLESS OTHERWISE NOTED. MODULE AND FACEPLATE
SPECIAL NOTES:
1. DATA JACKS: EACH RJ45 CAT6 JACK FOR DATA SHALL BE CONNECTED TO A DEDICATED UTP 4 PR CAT6 CABLE

WAP
WIRELESS ACCESS POINT. PROVIDE CAT 6 CABLE HOMERUN TO IDF AND TERMINATE WITH RJ45 JACK FLUSH CEILING MOUNTED, WITH 10' OF COILED CABLE ABOVE CEILING.

W F1
WALL TELEPHONE OUTLET FOR HOUSE PHONE. MOUNTED AT 52" ABOVE FINISHED FLOOR TO TOP.

WAP
WIRELESS ACCESS POINT WALL MOUNTED 10'-0" TO 12'-0" ABOVE FINISHED FLOOR PROVIDE CAT 6 CABLE HOMERUN TO IDF AND TERMINATE TO RJ45 JACK FLUSH ON WALL.

SX
WALL DATA OUTLET. SURFACE MOUNTED AT 48" ABOVE FINISHED FLOOR TO TOP OF BACKBOX. X = # OF DATA JACKS

FLOOR BOX DATA OUTLET. DATA OUTLET INSTALLED IN FLOOR BOX WITH UTP HOMERUN TO COMM ROOM. X = # OF DATA JACKS

3/4" PLYWOOD BACKBOARD, FIRE RETARDANT.

IDF - 2 POST RACK

TELEVISION OUTLET, RG6 CABLE TO COMMUNICATIONS ROOM

FIRE ALARM SYSTEM

TO THE BEST KNOWLEDGE AND UNDERSTANDING OF THE EOR, THESE DRAWINGS AND SPECIFICATIONS HAVE ALL THE INFORMATION REQUIRED BY FAC 61G15-32.008, INCLUDING BUT NOT LIMITED TO:
1) FIRE ALARM SYSTEM BASED ON OCCUPANCY AND CLASSIFICATIONS LISTED IN LIFE SAFETY PLAN.
2) PLANS AND SPECIFICATIONS DESIGNED TO:
a. FBC SEVENTH EDITION
b. FLORIDA FIRE PREVENTION CODE SEVENTH EDITION
c. OTHER CODES AND STANDARDS LISTED IN SPECIFICATION SECTION 28 31 11 PART 1.3
3) PROJECT WILL REQUIRE ENGINEERED SHOP DRAWINGS FROM A QUALIFIED INSTALLER.
4) DRAWING AND SPECIFICATIONS CONTAIN:
a) SYMBOL LEGEND (SHEET E-001), SYSTEM RISER (E-501), AND SPECIFICATIONS (28 31 11) FOR ALL SYSTEM REQUIREMENTS.
b) FLOOR PLANS (E-301, E-302) FOR INITIATION AND NOTIFICATION DEVICE LOCATIONS, AS WELL AS CONTROL AND MONITORING DEVICES.
c) STROBE INTENSITY, 75 CANDELA FOR ALL DEVICES, UNLESS OTHERWISE NOTED, AND SPEAKER OUTPUT REQUIREMENTS (28 31 11 PART 2)
d) SYSTEM TO HAVE CLASS B CIRCUITS.
e) FUNCTION OF SYSTEM (28 31 11 PART 1).
f) SYSTEM TO BE ADDRESSABLE.
g) SURGE PROTECTION (28 31 11 PART 2 AND E601).
h) ENVIRONMENTAL REQUIREMENTS (28 31 11 PART 2)
i) SITE PLAN (E-100)
j) SMOKE DETECTION INSTALLATION REQUIREMENTS (28 31 11 PART 3)
k) SMOKE STRATIFICATION IS NOT ANTICIPATED FOR THIS PROJECT
l) SYSTEM IS NOT DESIGNED USING PERFORMANCE-BASED CRITERIA
m) SYSTEM WILL ONLY HAVE A GENERAL EVACUATION SIGNAL.
n) WIRING REQUIREMENTS (28 31 11 PARTS 2 AND 3)
o) O&M AND TRAINING REQUIREMENTS (28 31 11 PART 3)
5) VOLTAGE DROP AND BATTERY CALCULATIONS TO BE PROVIDED IN CONTRACTOR PERMIT AND SHOP DRAWINGS.
6) SYSTEM TEST REQUIREMENTS (28 31 11 PART 3)
7) SPECIAL OWNER REQUIREMENTS (28 31 11 PART 1)

P -MANUAL FIRE ALARM PULL STATION
-FIRE ALARM COMBINATION HORN/STROBE DEVICE (75 CANDELA MINIMUM, 110 CANDELA WHERE NOTED) UNLESS NOTED OTHERWISE
F -FIRE ALARM STROBE ONLY, 75 CANDELA MINIMUM UNLESS NOTED OTHERWISE
UF -FIRE ALARM LOW FREQUENCY DEVICE
F -135° HEAT DETECTOR
-SMOKE DETECTOR
AL -COMBINATION SMOKE ALARM/ CO DETECTOR, 120V, W/BATTERY BACKUP. TO BE CONNECTED TO FIRE ALARM SYSTEM.
-DUCT SMOKE DETECTOR - "R" = RETURN, "S" = SUPPLY. PROVIDE LED SUPERVISORY INDICATOR FOR BOTH DETECTORS IN AN ACCESSIBLE LOCATION AND CLEARLY LABELED.
CM -CONTROL MODULE RELAY
WF -WEATHERPROOF WATER FLOW SWITCH MONITOR MODULE CONNECTED TO FIRE SPRINKLER SYSTEM
VS -WEATHERPROOF TAMPER SWITCH MONITOR MODULE CONNECTED TO FIRE SPRINKLER SYSTEM
KB -KNOXBOX WITH TAMPER SWITCH MOUNTED 8'-0" TO 12'-0" ABOVE FINISHED GRADE.
"FACP" -FIRE ALARM CONTROL PANEL "FACP"
"FAAN" -FIRE ALARM ANNUNCIATOR "FAAN"
CO -CEILING MOUNTED CO2 SENSOR

SCOPE OF WORK:

PROVIDE NEW ELECTRICAL SERVICE FOR TAMPA PD EVIDENCE AND FORENSICS BUILDING. COORDINATE WITH ELECTRICAL UTILITY PROVIDER FOR UTILITY TRANSFORMER LOCATION AND CONNECTION REQUIREMENTS. PROVIDE ELECTRICAL CONNECTIONS FOR ALL EQUIPMENT, RECEPTACLES, LIGHTING, AND ASSOCIATED ELECTRICAL DISTRIBUTION.

Electrical Sheet Index

Sheet Number	Sheet Name
E-001	ELECTRICAL SYMBOLS AND SPECIFICATIONS
E-002	ELECTRICAL SYMBOLS AND SPECIFICATIONS
ED-101	DEMO ELECTRICAL PLAN
E-101	ELECTRICAL SITE PLAN - NORTH
E-102	ELECTRICAL SITE PLAN - SOUTH
E-103	ELECTRICAL SITE PLAN - PHOTOMETRICS
E-104	ELECTRICAL LIGHTING DETAILS
E-105	ELECTRICAL LIGHTING DETAILS
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E-202	LIGHTING FLOOR PLAN AREA B
E-203P	LIGHTING FLOOR PLAN AREA A&C PHOTOMETRICS
E-204P	LIGHTING FLOOR PLAN AREA B PHOTOMETRICS
E-301	POWER FLOOR PLAN AREA A&C
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E-702	ELECTRICAL PANEL SCHEDULES
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E-804	ELECTRICAL DETAILS
E-805	ELECTRICAL DETAILS

Luminaire Schedule

Symbol	[MANUFAC]	Label	Description	LLF	Lum. Watts	Lum. Lumens
	Lithonia Lighting	2C-H	CSS L48 ALO3 MVOLT SWW3 80CRI; (5000LM 3500K)	1.000	41.99	4857
	Lithonia Lighting	2C-M	CSS L48 ALO3 MVOLT SWW3 80CRI; (4000LM 3500K)	1.000	34.2	4089
	Lithonia Lighting	2E-H	CSS L96 ALO4 MVOLT SWW3 80CRI; (10000LM 3500K)	1.000	83.98	9714
	Lithonia Lighting	2E-L	CSS L96 ALO4 MVOLT SWW3 80CRI; (6000LM 3500K)	1.000	48.52	6101
	Lithonia Lighting	2E-M	CSS L96 ALO4 MVOLT SWW3 80CRI; (8000LM 3500K)	1.000	79.53	8177
	Lithonia Lighting	B1-H	CPX 2X2 ALO7 80CRI SWW7 SWL MVOLT; 3500K High Lumen	1.000	37.5	4131
	Lithonia Lighting	B1-L	CPX 2X2 ALO7 80CRI SWW7 SWL MVOLT; 3500K Low Lumen	1.000	19.1	2399
	Lithonia Lighting	B1-M	CPX 2X2 ALO7 80CRI SWW7 SWL MVOLT; 3500K Med Lumen	1.000	28.7	3356
	Gotham Architectural Lighting	D1	EVOSH 35/10 DFR SOL MVOLT EZ1	1.000	14.7	637
	Gotham Architectural Lighting	D2	EVO4 35/06 AR LSS MD MVOLT GZ1	1.000	7.2	545
	Gotham Architectural Lighting	DA	EVO6 35/10 AR LSS MWD GZ10	1.000	9.6	946
	Gotham Architectural Lighting	D8	EVO6 35/15 AR LSS MWD GZ10	1.000	14.7	1399
	Lithonia Lighting	V24	FMVCCLS 24IN MVOLT 30K35K40K	1.000	16.12	1737
	Lithonia Lighting	V36	FMVCCLS 36IN MVOLT 30K35K40K	1.000	26.39	2460
	Lithonia Lighting	W51	TWX2 LED P3 40K MVOLT	1.000	39	5250

Site Luminaire Schedule

Symbol	[MANUFAC]	Label	Arrangement	Description	LLF	Lum. Watts	Lum. Lumens
	LF Illumination	C1	Single	SB11-15A0-T-20L-8040-W-DMJ-SS	1.000	20.7	995
	Lithonia Lighting	C2	Single	DMW0 L24 20000LM ACL MD MVOLT GZ10 40K 80CRI NLTAIR2 RSBOR10	1.000	18.78	2613
	Lithonia Lighting	SLA	Single	DSX0 LED P7 40K 70CRI T3M MVOLT RPA NLTAIR2 PIRHN FINISH TBD: MOUNTED 30' AFG ON RTA DIRECT BURIAL POLE	1.000	170.81	20318
	Lithonia Lighting	SLB	Single	DSX0 LED P7 40K 70CRI TFTM MVOLT RPA NLTAIR2 PIRHN FINISH TBD: MOUNTED 30' AFG ON RTA DIRECT BURIAL POLE	1.000	170.81	20763
	Lithonia Lighting	SLC	Single	DSX0 LED P7 40K 70CRI BLC4 MVOLT RPA NLTAIR2 PIRHN FINISH TBD: MOUNTED 30' AFG ON RTA DIRECT BURIAL POLE	1.000	170.81	15261
	Lithonia Lighting	SLD2@180	Back-Back	DSX0 LED P7 40K 70CRI T5W MVOLT RPA NLTAIR2 PIRHN FINISH TBD: MOUNTED 30' AFG ON RTA DIRECT BURIAL POLE	1.000	170.81	21557
	Lithonia Lighting	WA	Single	WDGE2 LED P1 40K 70CRI T1S MVOLT SRM NLTAIR2 PIR	1.000	11.1658	1371
	Lithonia Lighting	WB	Single	WDGE2 LED P2 40K 70CRI TFTM MVOLT SRM NLTAIR2 PIR	1.000	18.9815	2291
	Lithonia Lighting	WC	Single	WDGE2 LED P3 40K 80CRI T3M MVOLT SRM NLTAIR2 PIR	1.000	32.1375	3216

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

(1) CONTRACTOR SHALL CAREFULLY COORDINATE THE LIGHTING FIXTURE TRIM TYPES WITH THE TYPE OF CEILING WHERE THE LIGHTING FIXTURES ARE TO BE INSTALLED. MODIFY FIXTURE CATALOG NUMBER AS REQUIRED TO COORDINATE FIXTURE WITH CEILING.

(2) CONTRACTOR, AT HIS OPTION, MAY USE A U.L. LISTED FLEXIBLE WIRING SYSTEM FOR LIGHTING FIXTURE BRANCH CIRCUITRY ABOVE ACCESSIBLE LAY-IN CEILINGS. ALL HOMERUNS, CONNECTIONS TO LIGHT SWITCHES, AND BRANCH CIRCUITRY FOR ALL OTHER CEILING CONDITIONS SHALL BE IN A CONVENTIONAL RACEWAY SYSTEM PER SPECIFICATIONS.

(3) WHEN FIXTURE MODEL NUMBER DIFFERS FROM FIXTURE DESCRIPTION, CONTRACTOR IS TO SUBMIT RFI REQUESTING CLARIFICATION PRIOR TO BID, PRIOR TO SHOP DRAWING SUBMITTAL AND PRIOR TO ORDERING OF FIXTURE. WHERE CONTRACTOR DOES NOT REQUEST CLARIFICATION PRIOR TO BID, CONTRACTOR SHALL PROVIDE THE MOST EXPENSIVE OPTION BETWEEN A FIXTURE THAT MATCHES THE DESCRIPTION AND FIXTURE THAT MATCHES THE MODEL NUMBER.

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ADG PROJECT NO. 1087
C.o.T. NO. 24-C-00032

PROJECT STATUS:
PERMIT DOCUMENTS

ISSUE DATE:
09/09/2024

REVISIONS:

DRAWN BY: SN
CHECKED BY: JLM

TPD HOWARD AVENUE ANNEX BUILDING

ELECTRICAL SYMBOLS AND SPECIFICATIONS

TRUE PROJECT NORTH:

E-001

Landreth Lighting Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
100 Lobby_Workplane	Illuminance	Fc	34.13	49.7	12.4	2.75	4.01
104 Conference_Workplane	Illuminance	Fc	55.46	65.0	39.5	1.40	1.65
105 Electrical_Workplane	Illuminance	Fc	34.58	41.2	25.8	1.34	1.60
106 Fingerprint_Workplane	Illuminance	Fc	53.09	65.7	32.4	1.64	2.03
107 Copy_Workplane	Illuminance	Fc	36.37	48.9	23.2	1.57	2.11
108 Mech_Workplane	Illuminance	Fc	37.12	45.8	22.2	1.67	2.06
109 Bag & Tag_Workplane	Illuminance	Fc	42.29	64.4	15.1	2.80	4.26
110 Break_Workplane	Illuminance	Fc	32.64	40.8	20.0	1.63	2.04
112 RR_Workplane	Illuminance	Fc	32.73	47.7	6.8	4.81	7.01
113 Open Office_Workplane	Illuminance	Fc	50.25	58.7	27.7	1.81	2.12
114 Office_Workplane	Illuminance	Fc	48.16	56.3	34.8	1.38	1.62
115 Office_Workplane	Illuminance	Fc	55.26	67.7	40.5	1.36	1.67
119 Vehicle Evidence_Workplane	Illuminance	Fc	44.43	62.5	13.0	3.42	4.81
120 Vehicle Evidence_Workplane	Illuminance	Fc	37.36	46.9	19.7	1.90	2.38
121 Garage_Workplane	Illuminance	Fc	37.92	47.0	16.6	2.28	2.83
122 Storage_Workplane	Illuminance	Fc	29.28	35.7	23.5	1.25	1.52
123 Tow Truck_Workplane	Illuminance	Fc	28.79	34.2	17.9	1.61	1.91
124 Storage_Workplane	Illuminance	Fc	38.53	46.0	26.3	1.47	1.75
125 Lockers_Workplane	Illuminance	Fc	32.44	46.8	14.2	2.28	3.30
126 Storage_Workplane	Illuminance	Fc	33.96	49.9	20.3	1.67	2.46
127 Storage_Workplane	Illuminance	Fc	34.08	47.5	12.7	2.68	3.74
128 Storage_Workplane	Illuminance	Fc	33.09	43.9	21.6	1.53	2.03
131 Shower_Workplane	Illuminance	Fc	22.76	34.7	11.2	2.03	3.10
132 Jan_Workplane	Illuminance	Fc	30.04	38.0	23.6	1.27	1.61
133 Office_Workplane	Illuminance	Fc	43.56	53.4	32.5	1.34	1.64
134 Storage_Workplane	Illuminance	Fc	30.28	40.2	16.1	1.88	2.50
135 Office_Workplane	Illuminance	Fc	51.17	62.2	37.6	1.36	1.65
136 Office_Workplane	Illuminance	Fc	51.79	60.7	36.0	1.44	1.69
137 Storage_Workplane	Illuminance	Fc	29.65	47.0	9.5	3.12	4.95
138A Office_Workplane	Illuminance	Fc	51.64	62.3	36.6	1.41	1.70
138B AFIS_Workplane	Illuminance	Fc	37.51	52.6	20.2	1.86	2.60
139 Clean Room_Workplane	Illuminance	Fc	53.97	68.6	28.5	1.89	2.41
140 Conference_Workplane	Illuminance	Fc	50.52	64.6	24.5	2.06	2.64
141 Work Area_Workplane	Illuminance	Fc	50.27	57.2	37.6	1.34	1.52
142 Office_Workplane	Illuminance	Fc	55.26	64.3	44.8	1.23	1.44
143 Office_Workplane	Illuminance	Fc	55.58	64.9	44.4	1.25	1.46
144 Office_Workplane	Illuminance	Fc	55.07	64.0	44.4	1.24	1.44
145 Office_Workplane	Illuminance	Fc	42.21	54.2	25.7	1.64	2.11
146 Powder Processing_Workplane	Illuminance	Fc	53.63	67.3	29.9	1.79	2.25
147 Biohazard_Workplane	Illuminance	Fc	53.66	67.0	28.5	1.88	2.35
148 Chem Lab_Workplane	Illuminance	Fc	52.06	67.5	25.8	2.02	2.62
148A Storage_Workplane	Illuminance	Fc	35.95	46.9	21.6	1.66	2.17
149 A Photo_Workplane	Illuminance	Fc	33.77	46.3	20.4	1.66	2.27
150 Lab 150A Shot Tank_Workplane	Illuminance	Fc	49.71	75.2	14.6	3.40	5.15
151 Elec_Workplane	Illuminance	Fc	34.55	44.5	24.1	1.43	1.85
152A Mech_Workplane	Illuminance	Fc	37.30	47.2	20.9	1.78	2.26
152B Telecom_Workplane	Illuminance	Fc	54.35	70.3	38.9	1.40	1.81
153 Evidence Storage_Workplane	Illuminance	Fc	41.99	63.2	4.7	8.93	13.45
154 Vault_Workplane	Illuminance	Fc	34.72	49.7	18.0	1.93	2.76
155 Office_Workplane	Illuminance	Fc	55.84	67.0	40.0	1.40	1.68
156 Work Area_Workplane	Illuminance	Fc	49.76	69.8	34.6	1.44	2.02
157 Copy and Storage_Workplane	Illuminance	Fc	28.98	38.4	14.4	2.01	2.67
158 Office_Workplane	Illuminance	Fc	50.25	63.8	30.0	1.68	2.13
159 Office_Workplane	Illuminance	Fc	50.06	63.5	30.1	1.66	2.11
160 Office_Workplane	Illuminance	Fc	46.25	53.1	31.0	1.49	1.71
161 Office_Workplane	Illuminance	Fc	54.22	62.3	44.4	1.22	1.40
162 Office_Workplane	Illuminance	Fc	54.24	62.2	45.1	1.20	1.38
163 Staging_Workplane	Illuminance	Fc	50.83	57.7	33.4	1.52	1.73
164 Break_Workplane	Illuminance	Fc	33.54	42.4	20.4	1.64	2.08
167 RR_Workplane	Illuminance	Fc	31.54	43.9	20.3	1.55	2.16
168 Jan_Workplane	Illuminance	Fc	35.07	37.8	33.0	1.06	1.15
169 Storage_Workplane	Illuminance	Fc	35.91	52.4	16.3	2.20	3.21
170 Mech_Workplane	Illuminance	Fc	35.71	52.3	16.7	2.14	3.13
171 Elec_Workplane	Illuminance	Fc	37.40	47.9	25.0	1.50	1.92
172 Vault_Workplane	Illuminance	Fc	29.72	40.4	9.9	3.00	4.08
173 Storage_Workplane	Illuminance	Fc	29.45	43.2	14.6	2.02	2.96
C100 B C102_Floor	Illuminance	Fc	24.70	48.9	6.4	3.86	7.64
C100A Corridor_Floor	Illuminance	Fc	25.38	36.3	14.2	1.79	2.56
C100C Corridor_Floor	Illuminance	Fc	21.05	29.2	17.9	1.18	1.63
C104 Corridor_Floor	Illuminance	Fc	26.53	41.0	16.7	1.59	2.46
C107 Corridor_Floor	Illuminance	Fc	24.92	61.5	3.8	6.56	16.18

LIGHTING PLAN PHOTOMETRICS - SCHEDULE

1 / E-002 1/8" = 1'-0"

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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:
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ISSUE DATE:
09/09/2024

REVISIONS:

DRAWN BY: **SN**
CHECKED BY: **JLM**

TPD HOWARD AVENUE ANNEX BUILDING

ELECTRICAL SYMBOLS AND SPECIFICATIONS

TRUE PROJECT NORTH:

E-002

GENERAL NOTES:

a. REFER TO SYMBOL LEGEND NOTES ON SHEET E-001.

b. REFER TO BOOK SPECIFICATIONS.

c. REFER TO LANDSCAPE PLANS FOR EXACT LOCATION AND TYPE OF ALL LANDSCAPE FIXTURES. PROVIDE CIRCUITS FOR ALL ITEMS ON LANDSCAPE PLANS NEEDING POWER.

d. NO LIGHTS SHALL BE INSTALLED IF THERE ARE OBVIOUS CONFLICTS ON SITE. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR REVIEW.

e. ANY PROPOSED LIGHTING SUBSTITUTIONS MUST BE SUBMITTED FOR OWNER AND/OR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PURCHASE AND INSTALLATION. PHOTOMETRICS MUST BE INCLUDED WITH ANY SITE LIGHTING SUBSTITUTIONS.

f. ALL SITE LIGHTING SHALL BE (2) #10 THWN, (1) #10 GND, 3/4" CONDUIT UNLESS NOTED OTHERWISE.

g. ALL EXTERIOR BUILDING, WALKWAY, AND SITE LIGHTS ARE TO BE ON PHOTOCELL CONTROL.

h. EXTERIOR FIRE ALARM DEVICES SHALL BE WEATHERPROOF.

PLAN KEYNOTES: (#)

1 VERIFY EXACT LOCATIONS OF TRANSFORMERS WITH LOCAL POWER COMPANY. COORDINATE EXACT LOCATION OF TRANSFORMERS, METER CENTERS AND CT CABINETS PRIOR TO ROUGH-IN.

2 SEE GENERATOR DETAILS / CUT SHEETS ON SHEET E-805 FOR MORE DETAILS.

3 CONNECTION FOR ACCESS CONTROL.

4 PROVIDE NEW TAP BOX FOR PV CONNECTION TO SERVICE. SEE ONE LINE DIAGRAM ON SHEET E501 FOR DETAILS.

5 COORDINATE LOCATION OF EXTERIOR ELECTRICAL EQUIPMENT / DISCONNECTS WITH ARCHITECT / OWNER. SEE UNISTRUT DETAIL ON SHEET E501 FOR EQUIPMENT DIMENSIONS.

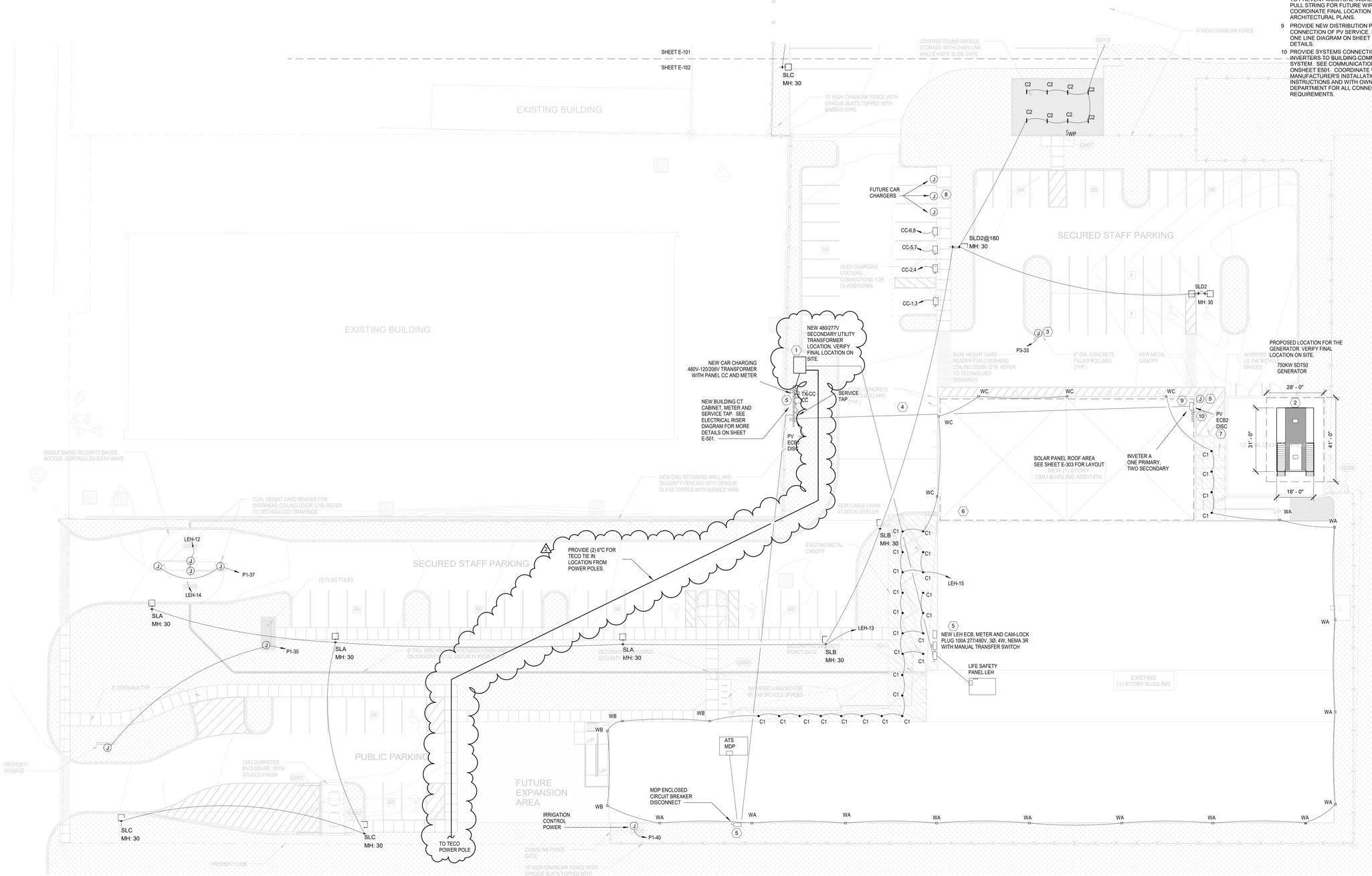
6 PROVIDE INTERCONNECTION OF SOLAR PANELS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL FOR MOUNTING DETAILS. BOND ALL METAL BODIES TO LIGHTNING PROTECTION SYSTEM.

7 PROVIDE NEW ENCLOSED CIRCUIT BREAKER FOR CONNECTION OF PV SERVICE. SEE ELECTRICAL ONE LINE DIAGRAM ON SHEET E501 FOR DETAILS. PROVIDE ENGRAVED LABEL "RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM".

8 PROVIDE 1-1/4" CONDUIT STUBBED OUT FOR FUTURE ELECTRIC VEHICLE CHARGERS. TERMINATE CONDUIT ABOVE GRADE AND CAP TO PREVENT MOISTURE INGRESS. INCLUDE A PULL STRING FOR FUTURE WIRE INSTALLATION. COORDINATE FINAL LOCATION WITH ARCHITECTURAL PLANS.

9 PROVIDE NEW DISTRIBUTION PANEL FOR CONNECTION OF PV SERVICE. SEE ELECTRICAL ONE LINE DIAGRAM ON SHEET E-501 FOR DETAILS.

10 PROVIDE SYSTEMS CONNECTION FROM INVERTERS TO BUILDING COMMUNICATIONS SYSTEM. SEE COMMUNICATIONS DIAGRAM ONSHEET E501. COORDINATE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WITH OWNER'S IT DEPARTMENT FOR ALL CONNECTION REQUIREMENTS.



ELECTRICAL SITE PLAN - SOUTH

1 / E-102 — 1" = 20'-0"

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JUSTIN L MUNDELL FL-70700

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C.o.T. NO. **24-C-00032**

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ISSUE DATE:
09/09/2024

REVISIONS:

2	8/18/2025	PERMIT COMMENTS

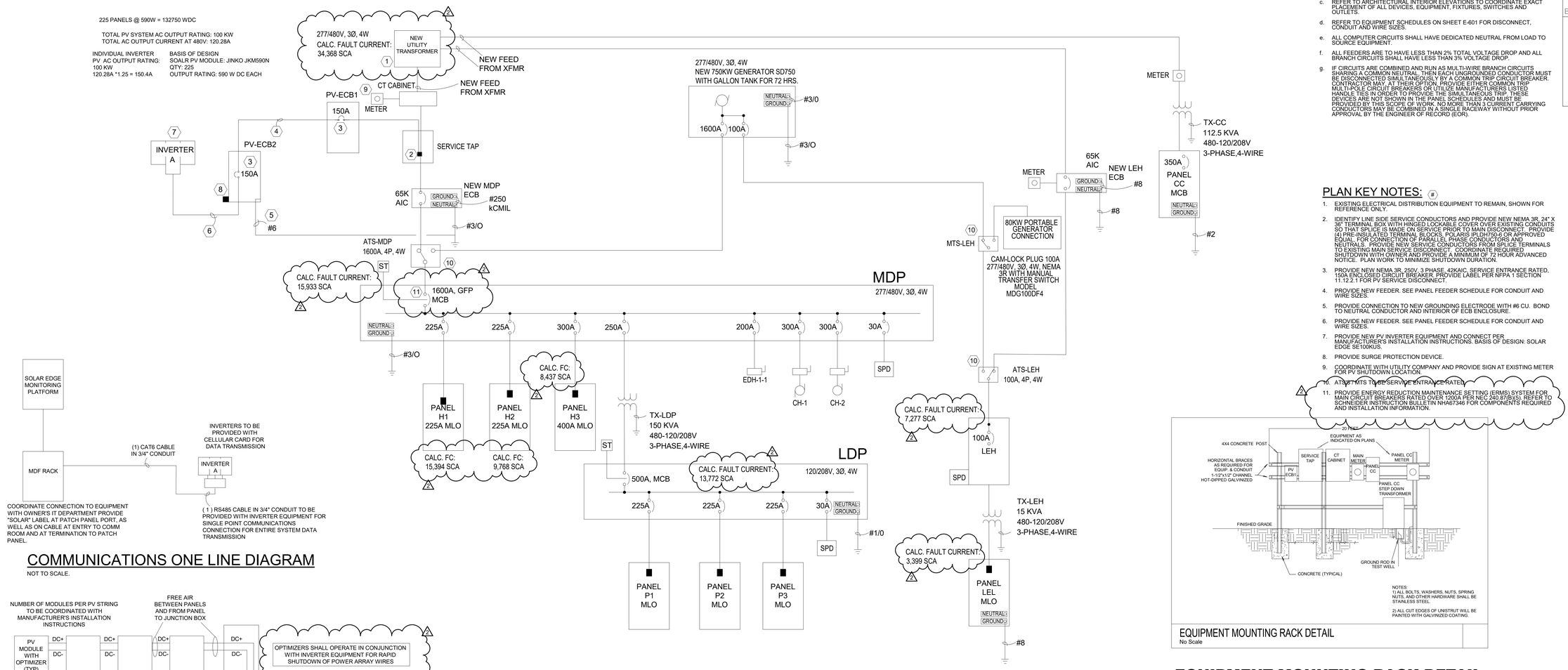
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CHECKED BY: **JLM**

TPD HOWARD AVENUE ANNEX BUILDING

ELECTRICAL SITE PLAN - SOUTH

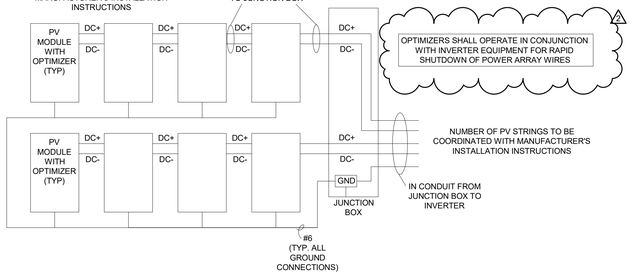
TRUE PROJECT NORTH:

E-102



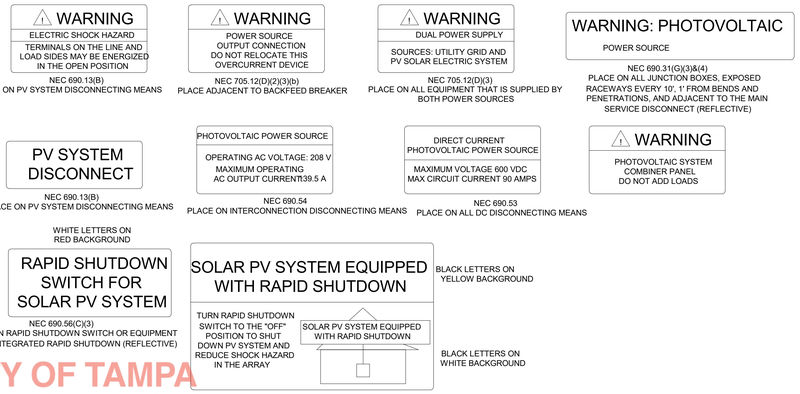
COMMUNICATIONS ONE LINE DIAGRAM

NOT TO SCALE.



TYPICAL PV SYSTEM DIAGRAM

NOT TO SCALE.



TYPICAL PV SYSTEM LABELS

ALL LABELS TO BE RED WITH MINIMUM 3/8" WHITE LETTERS

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9/3/2025

GENERAL NOTES:

a. REFER TO SYMBOL LEGEND AND GENERAL NOTES ON SHEET E-001.

b. REFER TO BOOK SPECIFICATIONS.

c. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS TO COORDINATE EXACT PLACEMENT OF ALL DEVICES, EQUIPMENT, FIXTURES, SWITCHES AND OUTLETS.

d. REFER TO EQUIPMENT SCHEDULES ON SHEET E-601 FOR DISCONNECT, CONDUIT AND WIRE SIZES.

e. ALL COMPUTER CIRCUITS SHALL HAVE DEDICATED NEUTRAL FROM LOAD TO SOURCE EQUIPMENT.

f. ALL FEEDERS ARE TO HAVE LESS THAN 2% TOTAL VOLTAGE DROP AND ALL BRANCH CIRCUITS SHALL HAVE LESS THAN 3% VOLTAGE DROP.

g. IF CIRCUITS ARE COMBINED AND RUN AS MULTI-WIRE BRANCH CIRCUITS SHARING A COMMON NEUTRAL, THEN EACH UNGROUNDED CONDUCTOR MUST BE DISCONNECTED SIMULTANEOUSLY BY A COMMON TRIP CIRCUIT BREAKER. CONTRACTOR MAY, AT THEIR OPTION, PROVIDE EITHER COMMON TRIP MULTI-POLE CIRCUIT BREAKERS OR UTILIZE MANUFACTURERS LISTED HANDLE TIES IN ORDER TO PROVIDE THE SIMULTANEOUS TRIP. THESE DEVICES ARE NOT SHOWN IN THE PANEL SCHEDULES AND MUST BE PROVIDED BY THIS SCOPE OF WORK. NO MORE THAN 3 CURRENT CARRYING CONDUCTORS MAY BE COMBINED IN A SINGLE RACEWAY WITHOUT PRIOR APPROVAL BY THE ENGINEER OF RECORD (EOR).

PLAN KEY NOTES: (#)

1. EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT TO REMAIN, SHOWN FOR REFERENCE ONLY.
2. IDENTIFY LINE SIDE SERVICE CONDUCTORS AND PROVIDE NEW NEMA 3R, 24" X 36" TERMINAL BOX WITH HINGED LOCKABLE COVER OVER EXISTING CONDUITS SO THAT SPLICE IS MADE ON SERVICE PRIOR TO MAIN DISCONNECT. PROVIDE (4) PRE-INSULATED TERMINAL BLOCKS, POLARIS IPLDH750-6 OR APPROVED EQUAL, FOR CONNECTION OF PARALLEL PHASE CONDUCTORS AND NEUTRALS. PROVIDE NEW SERVICE CONDUCTORS FROM SPLICE TERMINALS TO EXISTING MAIN SERVICE DISCONNECT. COORDINATE REQUIRED SHUTDOWN WITH OWNER AND PROVIDE A MINIMUM OF 72 HOUR ADVANCED NOTICE. PLAN WORK TO MINIMIZE SHUTDOWN DURATION.
3. PROVIDE NEW NEMA 3R, 250V, 3 PHASE, 42KAIC, SERVICE ENTRANCE RATED, 150A ENCLOSED CIRCUIT BREAKER. PROVIDE LABEL PER NFPA 1 SECTION 11.12.2.1 FOR PV SERVICE DISCONNECT.
4. PROVIDE NEW FEEDER. SEE PANEL FEEDER SCHEDULE FOR CONDUIT AND WIRE SIZES.
5. PROVIDE CONNECTION TO NEW GROUNDING ELECTRODE WITH #6 CU. BOND TO NEUTRAL CONDUCTOR AND INTERIOR OF ECB ENCLOSURE.
6. PROVIDE NEW FEEDER. SEE PANEL FEEDER SCHEDULE FOR CONDUIT AND WIRE SIZES.
7. PROVIDE NEW PV INVERTER EQUIPMENT AND CONNECT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. BASIS OF DESIGN: SOLAR EDGE SE100K1US.
8. PROVIDE SURGE PROTECTION DEVICE.
9. COORDINATE WITH UTILITY COMPANY AND PROVIDE SIGN AT EXISTING METER FOR PV SHUTDOWN LOCATION.
10. ATS AND MTS TO BE SERVICE ENTRANCE RATED.
11. PROVIDE ENERGY REDUCTION MAINTENANCE SETTING (ERMS) SYSTEM FOR MAIN CIRCUIT BREAKERS RATED OVER 1200A PER NEC 240.87(B)(5). REFER TO SCHNEIDER INSTRUCTION BULLETIN NHA07346 FOR COMPONENTS REQUIRED AND INSTALLATION INFORMATION.

EQUIPMENT MOUNTING RACK DETAIL
No Scale

EQUIPMENT MOUNTING RACK DETAIL

1 / E-501 — 3/16" = 1'-0"

PANEL FEEDER SCHEDULE: COPPER

* WIRE SIZES ARE BASED ON NFPA 70 TABLE 310.15(B)(16) 60 DEGREE CU COLUMN FOR SIZES OF 100A AND LESS, ALL OTHERS BASED ON 75 DEGREE COLUMN.

**LOAD AMPS AND DISTANCE SHOWN FOR VD CALCULATION ONLY. SEE PANEL SCHEDULE FOR ACTUAL LOAD. ACTUAL DISTANCE MAY VARY DEPENDENT ON ROUTING.

FEEDER DESCRIPTION SOURCE	LOAD	VOLTS	PH	NEUT Y/N	200% NEUT Y/N	GRND Y/N	ISO GND Y/N	MAIN OCP RATING	LOAD AMPS**	DISCONNECT SIZE	FUSE	NEMA	WIRE PER PHASE*	NEUT WIRE	ADD NEUT	GND WIRE	ISO GND	SYST BOND JUMP	# OF RUNS	CONDUIT SIZE	APPROX DIST.** FT	VOLT DROP VD%	NOTES
UTILITY TX	SERVICE TAP	480	3	Y	N	N	N	1600	1600				#600	#600				#350	4	4"			
SERVICE TAP	MDP ECB	480	3	Y	N	Y	N	1600	1600				#600	#600		#4/0			4	4"	230	0.83%	
MDP ECB	ATS-MDP	480	3	Y	N	Y	N	1600	1600				#600	#600		#4/0			4	4"	60	0.22%	
ATS-MDP	MDP	480	3	Y	N	Y	N	1600	1600				#600	#600		#4/0			4	4"	10	0.04%	
MDP	PANEL H1	480	3	Y	N	Y	N	225	225				#4/0	#4/0		#4			1	2-1/2"	10	0.05%	
MDP	PANEL H2	480	3	Y	N	Y	N	225	225				#4/0	#4/0		#4			1	2-1/2"	180	0.92%	
MDP	PANEL H3	480	3	Y	N	Y	N	300	300				#350	#350		#4			1	3"	350	1.48%	
MDP	TX-LDP	480	3	N	N	Y	N	250	250				#250			#4			1	2-1/2"	10	0.05%	
TX-LDP	PANEL LDP	208	3	Y	N	Y	N	500	500				#250	#250		#1/0		#1/0	2	3"	10	0.11%	
PANEL LDP	PANEL P1	208	3	Y	N	Y	N	225	225				#4/0	#4/0		#4			1	2-1/2"	10	0.12%	
PANEL LDP	PANEL P2	208	3	Y	N	Y	N	225	225				#250	#250		#3			1	3"	180	1.82%	
PANEL LDP	PANEL P3	208	3	Y	N	Y	N	225	225				#600	#600		#2/0			1	4"	350	1.64%	
UTILITY TX	LE ECB	480	3	Y	N	N	N	100	100				#3	#3				#8	1	1-1/4"			
LEH ECB	ATS-LEH	480	3	Y	N	Y	N	100	100				#3	#3		#8			1	1-1/4"	50	0.45%	
ATS-LEH	PANEL LEH	480	3	Y	N	Y	N	100	100				#3	#3		#8			1	1-1/4"	20	0.18%	
PANEL LEH	TX-LEH	480	3	N	N	Y	N	30	30				#10			#10			1	3/4"	20	0.26%	
TX-LEH	PANEL LEL	208	3	Y	N	Y	N	50	50				#8	#8		#8		#8	1	1"	20	0.65%	
GENERATOR	ATS-MDP	480	3	Y	N	Y	N	1600	1600				#600	#600		#4/0			4	4"	400	1.44%	
GENERATOR	ATS-LE	480	3	Y	N	Y	N	100	100				#2	#2		#6			1	1-1/2"	250	1.80%	
UTILITY TX	TX-CC	480	3	Y	N	N	N	200	200				#3/0	#3/0				#4	1	2"			
TX-CC	PANEL CC	208	3	Y	N	Y	N	350	350				#500	#500		#3			1	4"	10	0.08%	
SERVICE TAP	PV ECB1	480	3	Y	N	N	N	150	150	150	ECB	3R	#1/0	#1/0				#6	1	2"	10	0.06%	
PV ECB1	PV ECB2	480	3	Y	N	Y	N	150	150				#1/0	#1/0		#6			1	2"	220	1.43%	
PV ECB2	PANEL PV	480	3	Y	N	Y	N	150	150				#1/0	#1/0		#6			1	2"	10	0.06%	
PANEL PV	INVERTER A	480	3	Y	N	Y	N	150	150				#1/0	#1/0		#6			1	2"	10	0.06%	

City of Tampa
CONSTRUCTION SERVICES DIVISION
PLANS APPROVAL
BLD-25-0517072 9/3/2025
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SGM #: 2023-335
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Date: 2025.09.17 10:41:44-04'00'

JUSTIN L MUNDELL No. 70700 STATE OF FLORIDA PROFESSIONAL ENGINEER

JUSTIN L MUNDELL FL-70700

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ADG PROJECT NO. 1087

C.o.T. NO. 24-C-00032

PROJECT STATUS: **PERMIT DOCUMENTS**

ISSUE DATE: **09/09/2024**

REVISIONS:

2	8/18/2025	PERMIT COMMENTS

DRAWN BY: SN
CHECKED BY: JLM

TPD HOWARD AVENUE ANNEX BUILDING

ELECTRICAL ONE LINE DIAGRAM

TRUE PROJECT NORTH:

E-501

GENERAL NOTES:

a. REFER TO SYMBOL LEGEND NOTES ON SHEET E-001.

b. REFER TO BOOK SPECIFICATIONS.

c. REFER TO LANDSCAPE PLANS FOR EXACT LOCATION AND TYPE OF ALL LANDSCAPE FIXTURES. PROVIDE CIRCUITS FOR ALL ITEMS ON LANDSCAPE PLANS NEEDING POWER.

d. NO LIGHTS SHALL BE INSTALLED IF THERE ARE OBVIOUS CONFLICTS ON SITE. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR REVIEW.

e. ANY PROPOSED LIGHTING SUBSTITUTIONS MUST BE SUBMITTED FOR OWNER AND/OR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PURCHASE AND INSTALLATION. PHOTOMETRICS MUST BE INCLUDED WITH ANY SITE LIGHTING SUBSTITUTIONS.

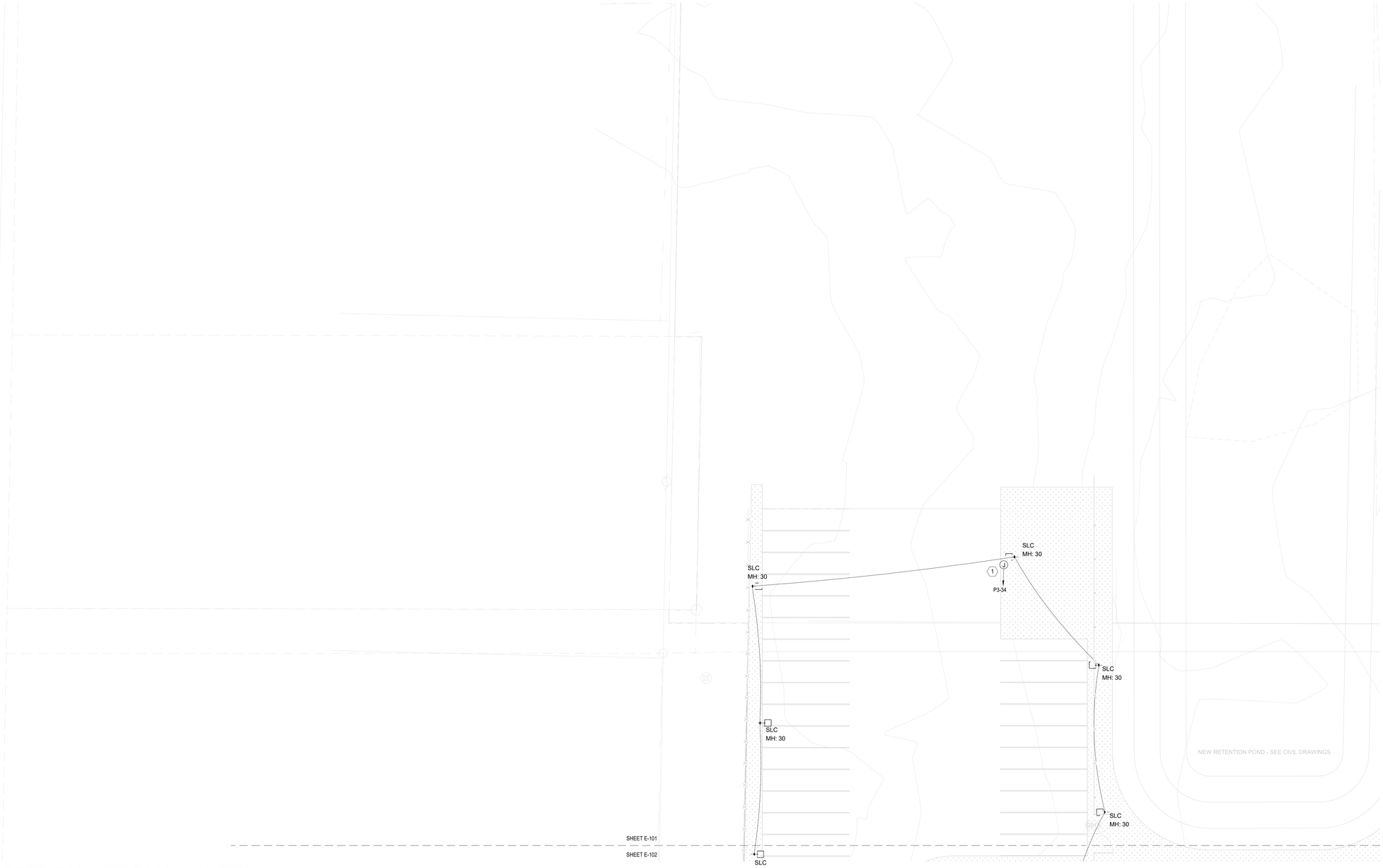
f. ALL SITE LIGHTING SHALL BE (2) #10 THWN, (1) #10 GND, 3/4" CONDUIT UNLESS NOTED OTHERWISE.

g. ALL EXTERIOR BUILDING, WALKWAY, AND SITE LIGHTS ARE TO BE ON PHOTOCELL CONTROL.

h. EXTERIOR FIRE ALARM DEVICES SHALL BE WEATHERPROOF.

PLAN KEYNOTES: (#)

1 CONNECTION FOR SECURITY CAMERA. COORDINATE LOCATION WITH TECHNOLOGY CONSULTANT.



1 E-101 **ELECTRICAL SITE PLAN - NORTH**
1" = 20'-0"

CITY OF TAMPA
APPROVED SITE REVIEW ONLY, NOT VALID WITHOUT BUILDING PLANS
BLD-25-0517072
9/3/2025

City of Tampa
CONSTRUCTION SERVICES DIVISION
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BLD-25-0517072 9/3/2025
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ADG PROJECT NO. **1087**

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PROJECT STATUS:
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09/09/2024

REVISIONS:

DRAWN BY: **SN**
CHECKED BY: **JLM**

TPD HOWARD AVENUE ANNEX BUILDING

ELECTRICAL SITE PLAN - NORTH

TRUE PROJECT NORTH:

E-101

GENERAL NOTES:

a. REFER TO SYMBOL LEGEND NOTES ON SHEET E-001.

b. REFER TO BOOK SPECIFICATIONS.

c. REFER TO LANDSCAPE PLANS FOR EXACT LOCATION AND TYPE OF ALL LANDSCAPE FIXTURES. PROVIDE CIRCUITS FOR ALL ITEMS ON LANDSCAPE PLANS NEEDING POWER.

d. NO LIGHTS SHALL BE INSTALLED IF THERE ARE OBVIOUS CONFLICTS ON SITE. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR REVIEW.

e. ANY PROPOSED LIGHTING SUBSTITUTIONS MUST BE SUBMITTED FOR OWNER AND/OR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PURCHASE AND INSTALLATION. PHOTOMETRICS MUST BE INCLUDED WITH ANY SITE LIGHTING SUBSTITUTIONS.

f. ALL SITE LIGHTING SHALL BE (2) #10 THWN, (1) #10 GND, 3/4" CONDUIT UNLESS NOTED OTHERWISE.

g. ALL EXTERIOR BUILDING, WALKWAY, AND SITE LIGHTS ARE TO BE ON PHOTOCELL CONTROL.

h. EXTERIOR FIRE ALARM DEVICES SHALL BE WEATHERPROOF.

PLAN KEYNOTES: (#)

1 VERIFY EXACT LOCATIONS OF TRANSFORMERS WITH LOCAL POWER COMPANY. COORDINATE EXACT LOCATION OF TRANSFORMERS, METER CENTERS AND CT CABINETS PRIOR TO ROUGH-IN.

2 SEE GENERATOR DETAILS / CUT SHEETS ON SHEET E-805 FOR MORE DETAILS.

3 CONNECTION FOR ACCESS CONTROL.

4 PROVIDE NEW TAP BOX FOR PV CONNECTION TO SERVICE. SEE ONE LINE DIAGRAM ON SHEET E501 FOR DETAILS.

5 COORDINATE LOCATION OF EXTERIOR ELECTRICAL EQUIPMENT / DISCONNECTS WITH ARCHITECT / OWNER. SEE UNISTRUT DETAIL ON SHEET E501 FOR EQUIPMENT DIMENSIONS.

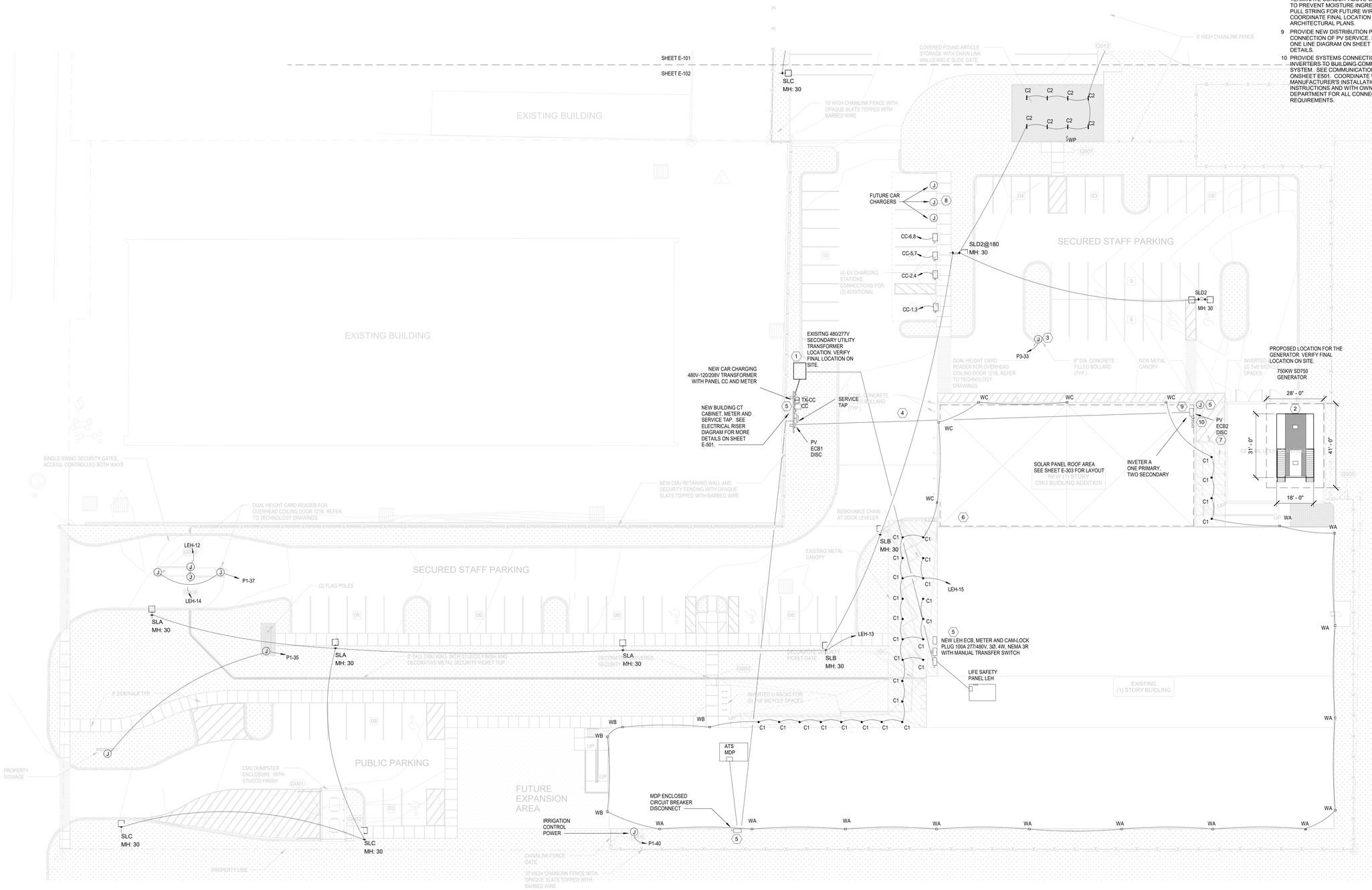
6 PROVIDE INTERCONNECTION OF SOLAR PANELS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL FOR MOUNTING DETAILS. BOND ALL METAL BODIES TO LIGHTNING PROTECTION SYSTEM.

7 PROVIDE NEW ENCLOSED CIRCUIT BREAKER FOR CONNECTION OF PV SERVICE. SEE ELECTRICAL ONE LINE DIAGRAM ON SHEET E501 FOR DETAILS. PROVIDE ENGRAVED LABEL "RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM".

8 PROVIDE 1-1/4" CONDUIT STUBBED OUT FOR FUTURE ELECTRIC VEHICLE CHARGERS. TERMINATE CONDUIT ABOVE GRADE AND CAP TO PREVENT MOISTURE INGRESS. INCLUDE A PULL STRING FOR FUTURE WIRE INSTALLATION. COORDINATE FINAL LOCATION WITH ARCHITECTURAL PLANS.

9 PROVIDE NEW DISTRIBUTION PANEL FOR CONNECTION OF PV SERVICE. SEE ELECTRICAL ONE LINE DIAGRAM ON SHEET E-501 FOR DETAILS.

10 PROVIDE SYSTEMS CONNECTION FROM INVERTERS TO BUILDING COMMUNICATIONS SYSTEM. SEE COMMUNICATIONS DIAGRAM ONSHEET E501. COORDINATE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WITH OWNER'S IT DEPARTMENT FOR ALL CONNECTION REQUIREMENTS.



ELECTRICAL SITE PLAN - SOUTH

E-102 1" = 20'-0"

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BLD-25-0517072
9/3/2025

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CONSTRUCTION SERVICES DIVISION
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BLD-25-0517072 9/3/2025
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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:

PERMIT DOCUMENTS

ISSUE DATE:

09/09/2024

REVISIONS:

DRAWN BY: **SN**

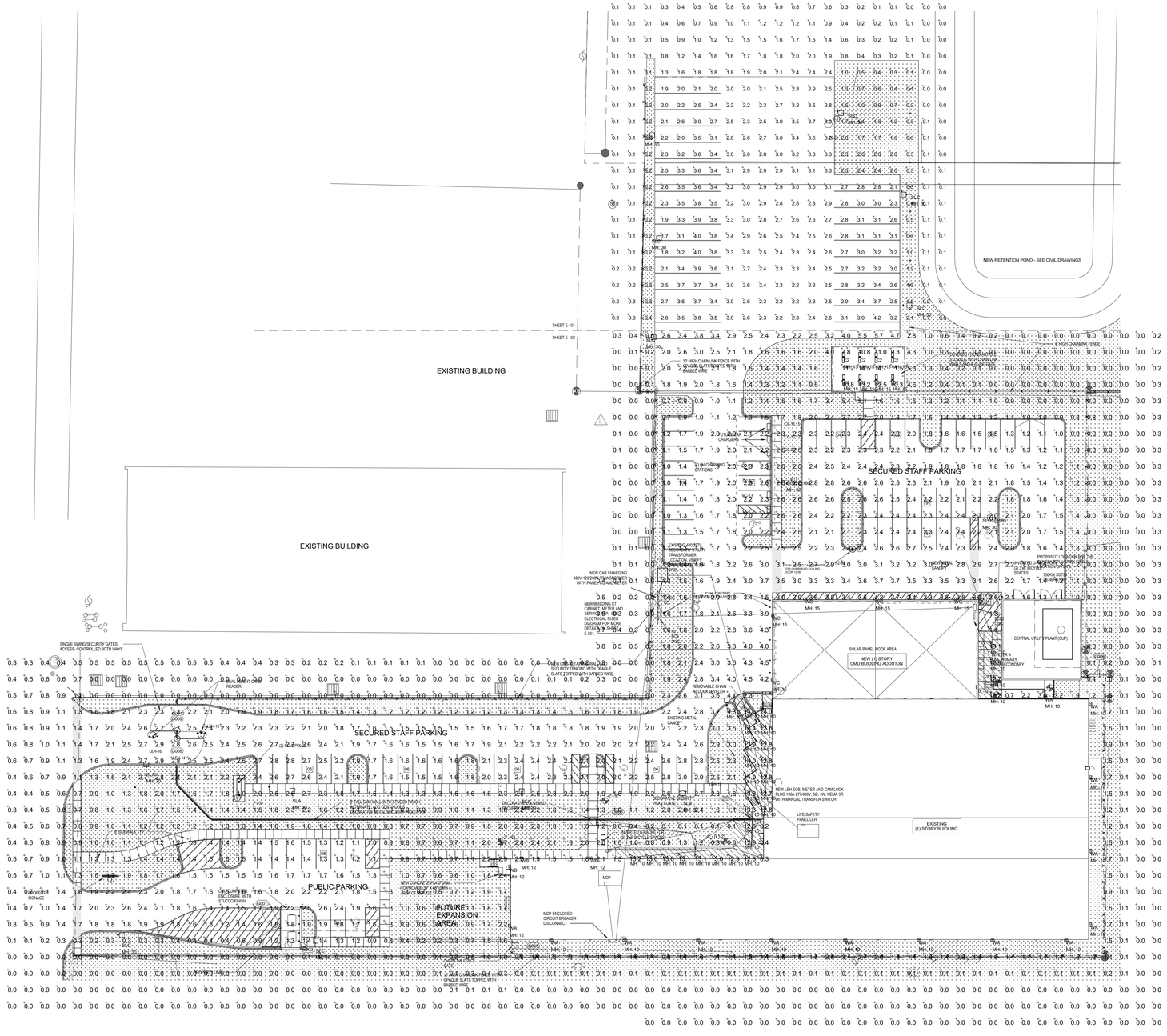
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TPD HOWARD AVENUE ANNEX BUILDING

ELECTRICAL SITE PLAN - SOUTH

TRUE PROJECT NORTH:

E-102


EXISTING BUILDING
EXISTING BUILDING
SHEET E-101
SHEET E-102
NEW RETENTION POND - SEE CIVIL DRAWINGS
SECURED STAFF PARKING
SECURED STAFF PARKING
PUBLIC PARKING
FUTURE EXPANSION AREA
SOLAR PANEL ROOF AREA
NEW (1) STORY CMU BUILDING ADDITION
CENTRAL UTILITY PLANT (CUP)
EXISTING (1) STORY BUILDING
NEW CAR CHARGING
NEW BUILDING CT CABINET, METER AND SERVICE - SEE ELECTRICAL RISER DIAGRAM FOR MORE DETAILS - SEE SHEET E-501
SINGLE SWING SECURITY GATES, ACCESS- CONTROLLED BOTH WAYS
CARD READER
MDP
MDP ENCLOSED CIRCUIT BREAKER DISCONNECT
NEW LEH ECB, METER AND CAM LOCK
LIFE SAFETY PANEL LEH
PROPOSED LOCATION FOR NEW GENERATOR
PROPOSED LOCATION FOR NEW TRANSFORMER
EXISTING METAL CANOPY
REMOVABLE CHAIN ACCESS GATES
CHAIN LINK FENCING WITH SECURITY FENCING WITH OPAQUE SLATS TOPPED WITH BARBED WIRE
10' HIGH CHAINLINK FENCE WITH OPAQUE SLATS TOPPED WITH BARBED WIRE
CHAINLINK FENCE
SLIDING GATE
POWER POLE
SIGNAGE
ENCLOSURE WITH STUCCO FINISH
NEW CONCRETE PLATFORM
NEW BUILDING ENCLOSURE
NEW BUILDING ENTRANCE
NEW CANOPY
NEW METAL CANOPY
EXISTING CANOPY
EXISTING BUILDING
EXISTING BUILDING
EXISTING BUILDING



D-Series Size 0

LED Area Luminaire

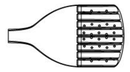
d-series

Catalog Number	
Notes	
Type	

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

EPA:	0.44 ft² (0.04 m²)
Length:	26.18" (66.5 cm)
Width:	14.06" (35.7 cm)
Height H1:	2.26" (5.7 cm)
Height H2:	7.46" (18.9 cm)
Weight:	23 lbs (10.4 kg)





Design Select options indicated by this color background.

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications, with typical energy savings of 70% and expected service life of over 100,000 hours.

design select

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect. *See ordering tree for details

Ordering Information

EXAMPLE: DSX0 LED P6 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX0 LED

Series	LEDs	Color temperature[3]	Color Rendering Index[4]	Distribution	Voltage	Mounting
DSX0 LED	**Forward optics** P1 P5 P2 P6 P3 P7 P4 **Rotated optics** P10[1] P12[1] P11[1] P13[1]	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K (this section 80CRI only, extended lead times apply) 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI 80CRI	AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare[1] T4M Type IV medium T4LG Type IV low glare[1] TFTM Forward throw medium TSM Type V medium TSLG Type V low glare TSW Type V wide BLC3 Type III backlight control[1] BLC4 Type IV backlight control[1] LCCO Left corner cutoff[1] RCCO Right corner cutoff[1]	MVOLT (120V-277V)[1,2] HVOLT (347V-480V)[1,2] XVOLT (277V-480V)[1,2] 120 [6,24] 208 [6,24] 240 [6,24] 277 [6,24] 347 [6,24] 480 [6,24]	**Shipped included** SPA Square pole mounting (4ft drilling, 3.5" min. SQ pole) RPA Round pole mounting (4ft drilling, 3" min. RND pole) SPA5 Square pole mounting (4ft drilling, 5" min. SQ pole)[1] RPA5 Round pole mounting (4ft drilling, 3" min. RND pole)[1] SPABN Square narrow pole mounting (4ft drilling, 3" min. SQ pole) WBA Wall bracket[19] MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)

Control options	Other options	Finish (required)
Shipped installed NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8–40' mounting height, ambient sensor enabled at 2fc.[5,12,18,19] PIR High/low, motion/ambient sensor, 8–40' mounting height, ambient sensor enabled at 2fc.[5,18,19] PER NEMA twist-lock receptacle only (controls ordered separate).[18] PERS Five-pin receptacle only (controls ordered separate).[18,19] PER7 Seven-pin receptacle only (controls ordered separate).[5,19] FAO Field adjustable output.[13,19] BL30 Bi-level switched dimming, 30%.[13,19] BL50 Bi-level switched dimming, 50%.[13,19] DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately).[57]	**Shipped installed** HS Houseside shield (Black finish standard).[20] L90 Left rotated optics.[1] R90 Right rotated optics.[1] CCE Coastal Construction.[21] HA 50°C ambient operation.[22] BAA Buy America(n) Act Compliant SF Single fuse (120, 277, 347V).[24] DF Double fuse (208, 240, 480V).[24] **Shipped separately** EGSR External Glare Shield (reversible, field install required, matches housing finish) BSDB Bird spikes (field install required)	DDBXD Dark Bronze DBLXD Black DNAXD Natural Aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

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Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V)[11]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V)[11]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V)[11]
DSHORT SBK	Shorting cap[10]
DSXBW5 P4	House-side shield (order package number P1-7, P10-13 in place of 4)
DSXRPA (FINISH)	Round pole adapter (4ft drilling, specify finish)
DSXRPA5 (FINISH)	Round pole adapter (5 drilling (specify finish)
DSXSPA5 (FINISH)	Square pole adapter (5 drilling (specify finish)
DSXBSSB (FINISH)	External glare shield (specify finish)
DSXBSDB (FINISH)	Bird spike deterrent bracket (specify finish)

NOTES
1. Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
2. MVOLT, HVOLT, and XVOLT are 50/60Hz and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possibilities combinations.
3. T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
4. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
5. HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
6. HVOLT not available with package P1, P2 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
7. XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
8. XVOLT not available in packages P1, P2 or P10. XVOLT not available with fusing (SF or DF).
9. SPA5 and RPA5 for use with 4ft drilling only (Not for use with 4ft drilling).
10. NBA cannot be combined with Type 1 distributions plus photocell (P1).
11. Not available with P1, P2, P10, P11, P12, P13, DMG, PIR, PER, PERS, PER7, FAO, BL30, BL50 or DMG. Not available on nLight Air 2.
12. NLTAIR2 PIRHN not available with other controls including PIR, PER, PERS, PER7, FAO, BL30, BL50 and DMG. NLTAIR2 PIRHN not available with P1, P2 and P10 using MVOLT. NLTAIR2 PIRHN not available with P1 using MVOLT.
13. PIR not available with NLTAIR2, PER, PERS, PER7, FAO BL30, BL50 and DMG. PIR not available with P1, P2 and P10 using HVOLT. PIR not available with P1, P2 and P10 using XVOLT. PIR not available with P1 using MVOLT.
14. PER/PER7 not available with NLTAIR2, PIR, BL30, BL50. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See Accessories. Shorting cap included.
15. FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PERS, PER7, BL30, BL50, or DMG.
16. BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PERS, PER7, FAO and DMG. BL30 or BL50 must specify 120, 277 or 347V. Consult tech support for 208, 240 or 480V.
17. DMG not available with NLTAIR2 PIRHN, PIR, PER, PERS, PER7, BL30, BL50 and FAO.
18. Reference Motion Sensor Default Settings table on page 4 to see functionality.
19. Reference Controls Options table on page 4.
20. Not available with P1, P2, P3, P4, T1S, T2M, T3M, T3LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
21. CCE option not available with options 8S and EGSR. Contact Technical Support for availability.
22. Option HA not available with performance packages P4, P7, P12 and P13.
23. Requires luminaire to be specified with PER, PERS or PER7 option. See Controls Table on page 4.
24. Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).

Shield Accessories



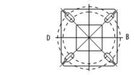
External Glare Shield (EGSR)

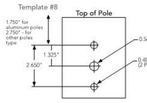


House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION
(from top of pole)





Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
		Minimum Hand Hole Details (inches)					
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"		3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPABN	#8	3"	3"	3"	3"		3"

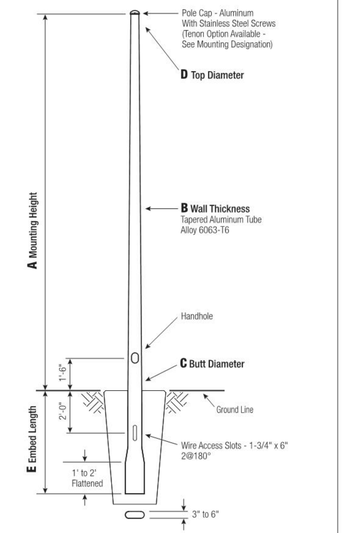
DSX0 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX0 with SPA	0.44	0.88	0.96	1.18	—	1.16
DSX0 with SPA5, SPABN	0.51	1.02	1.06	1.26	—	1.29
DSX0 with RPA, RPA5	0.51	1.02	1.06	1.26	1.24	1.29
DSX0 with MA	0.64	1.28	1.24	1.67	1.70	1.93

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RTA — Round Tapered Aluminum Pole — No Arm — Direct Buried



Satin Aluminum or Powder Coated Finish per Customer Specification.

C Butt Dia.	D Top Dia.
5	3
6	4.5
7	4.5
8	4.5
9	4.5
10	6

C and D Dimensions in Inches

Pole

The pole shaft will be constructed of seamless extruded tube of 6063 Aluminum Alloy per the requirements of ASTM B221. The shaft assembly shall be full-length heat treated to produce a T6 temper.

Handhole

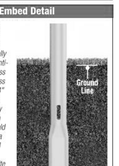
5" Butt Diameter - *2-1/2" x 5" Handhole with curved Lap Style Aluminum Door and two (2) SS Self-Tapping Attaching Screws. A Grounding Provision is provided as part of the handhole.*

6" Butt Diameter - *Reinforced, 3" x 5" curved Cast Aluminum Frame (Alloy 356-T6) with Aluminum Door and two (2) SS Hex Head Screws. A Grounding Provision incorporating a 3/8" diameter hole is provided opposite the Handhole.*

7" + Butt Diameters - *Reinforced, 4" x 6" curved Cast Aluminum Frame (Alloy 356-T6) with Aluminum Door and two (2) SS Hex Head Screws. Reinforced Frame will contain a tapped 3/8"-16NC Grounding Provision.*

Embed Detail

Direct Buried Pole bottom section on 6"+ butt diameter poles will be partially flattened into an anti-rotational, oval cross section. Wire access will be provided 24" below ground line. Soil conditions vary by site. Foundation requirements should be determined by a qualified Structural Engineer with knowledge of jobsite soil conditions.

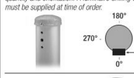


Vibration Damper

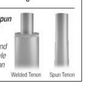
When determined necessary by Hapco, a Vibration Damper will be factory-installed inside the pole shaft. Customer specification of the damper is available.

Mounting Designation

Side Drill Mount
For Side Drill Mount applications specify luminaire type, quantity and orientation. A luminaire drilling template must be supplied at time of order.



Tenon Mount - Welded or Spun
For Tenon Mount applications specify both Tenon diameter (2.375", 2.875", 3.5", etc.) and length (3", 4", etc.). Tenon style is factory option. Welded Tenon can be specified.



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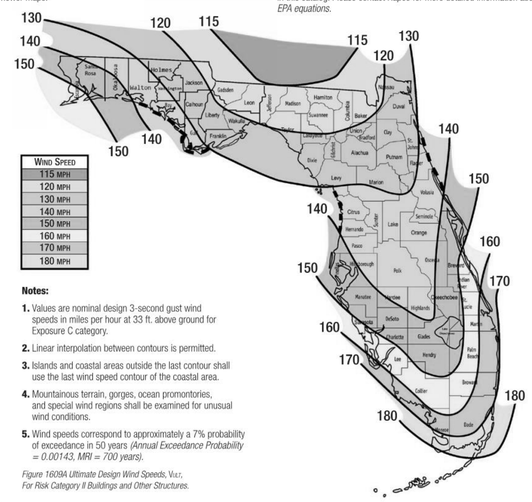
FLORIDA BUILDING CODE GUIDE
2017 FBC EPA's

WARNING: *Do not install light pole without luminaire.*

This Hapco Florida Building Code Guide has been developed to provide a quick reference for EPAs *(Effective Projected Areas) meeting the 2017 FBC.*

The EPA's in this publication are based on the 3-second gust wind map taken from the 2017 Florida Building Code *(Figure 1609A Wind Map shown below)*. These EPA's cannot be used with older or newer maps.

This Wind Map is to be used in conjunction with ASCE 7-16 Wind Pressure and 2009 AASHTO Design Equations. Wind regions from maps other than the one shown below may not represent the EPA values listed in this catalog. *Please contact Hapco for more detailed information about EPA equations.*



Wind Speed
115 MPH
120 MPH
130 MPH
140 MPH
150 MPH
160 MPH
170 MPH
180 MPH

Notes:

1. Values are nominal design 3-second gust wind speeds in miles per hour at 33 ft. above ground for Exposure C category.
2. Linear interpolation between contours is permitted.
3. Islands and coastal areas outside the last contour shall use the last wind speed contour of the coastal area.
4. Mountainous terrain, gorges, ocean promontories, and special wind regions shall be examined for unusual wind conditions.
5. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years *(Annual Exceedance Probability = 0.00143, MRI = 700 years)*.

Figure 1609A Ultimate Design Wind Speeds, V_{ULT}, For Risk Category II Buildings and Other Structures.

Shielding Factor

The table shown at right will assist you in calculating the total EPA for many of the popular luminaire configurations. Using the shielding factor to calculate total EPA prevents an over-designed pole being used, resulting in cost savings.

Luminaire Configuration	EPA		Shielding Factor		Total EPA
2 @ 180°	1.5	X	2.0	=	3.0
3 @ 180°	1.5	X	3.0	=	4.5
4 @ 180°	1.5	X	4.0	=	6.0
3 @ 120°	1.5	X	2.3	=	3.45 (Shielded)
4 @ 90°	1.5	X	3.2	=	4.8 (Shielded)

Example assumes a single luminaire EPA of 1.5.

ASCE 7-16 Wind Load Design Assumptions:

- Risk Cat. II, MRI = 700 yrs., Exp. and Surface Roughness Cat. "C".
- K_{zt} = 1.0, K_d = 1.0, G = 1.14, $V_{ASD} = \sqrt{0.6}V_{ULT}$ *(FBC 2017 1609.3.1)*
- C_{fr} - drag coefficients calculated per AASHTO LTS-6 *(ASCE 7-16 C29.4)*
- Strength Equations per AASHTO LTS-6 Allowable Stress Increase = 1.33

FLORIDA BUILDING CODE GUIDE
2017 FBC EPA's

www.hapco.com

Catalog Number System

The catalog number for Hapco poles utilizes the following identification system.

Mounting Height		Butt Dia.		Base Style	
R.T.A				D -	
Shaft Assembly		Wall Thick.	Top Dia.		Finish

Catalog Number Example -

RTA 30 D 8 B D – 01

Round Tapered Aluminum, 30' Mounting Height, .188" Wall Thickness, 8" Butt Diameter, 4.5" Top Diameter, FBC Direct Buried, Satin Aluminum Finish.

Wall Thickness
B = .125"
C = .156"
D = .188"
E = .219"
F = .250"
G = .312"

Butt Diameter
5 = 5"
6 = 6"
7 = 7"
8 = 8"
9 = 9"
1 = 10"

Top Diameter
A = 3"
B = 4.5"
C = 6"

Base Style
D = FBC Direct Buried

Finish
01 = Satin Aluminum
BA = Black Powder Coat
BH = White Powder Coat
BM = Dark Bronze Powder Coat
BV = Dark Green Powder Coat
GC = Gray Powder Coat
★★ = Specify Finish

EPA Note:
EPA's based on symmetrically placed side mounted fixture(s) not exceeding height of the pole.

Embed Note:
Embed depths shown are calculated using the weight and EPA combination corresponding to the maximum windspeed available per pole. The calculation uses the assumption of a Class 3 soil type with a 12" diameter augered hole that is to be back-filled (preferably with chloride-free concrete or high density polyurethane foam). Embed depths are subject to change if the loading changes or if the wind speed changes. Please contact Hapco for help in determining an appropriate embed depth.

A Mtg. Ht.	B Wall Thk.	C Butt Dia.	E Embed Depth	Total Lbs. Wt.	Maximum EPA 120	130	140	150	160	170	180	Old Catalog Number	Catalog Number
10	0.125	5	4	110	9.9	8.2	6.9	5.9	5.0	4.4	3.8	879007-0310X	RTA10BSAD-**
12	0.125	5	4	85	7.7	6.3	5.2	4.4	3.7	3.1	2.7	879007-0312X	RTA12BSAD-**
14	0.125	5	4	70	6.0	4.8	3.9	3.2	2.6	2.2	1.8	879007-0314X	RTA14BSAD-**
16	0.125	5	4	50	4.6	3.6	2.8	2.2	1.7	1.4	1.1	879007-0316X	RTA16BSAD-**
18	0.125	5	4	40	3.3	2.4	1.8	1.3	0.9	0.6	-	879007-0318X	RTA18BSAD-**
18	0.156	5	4	55	4.6	3.6	2.8	2.1	1.7	1.3	1.0		RTA18BSAD-**
20	0.125	5	4	40	2.2	1.5	0.9	-	-	-	-		RTA20BSAD-**
20	0.125	6	5	100	8.6	7.0	5.8	4.9	4.2	3.6	3.1	50-001	RTA20B6BD-**
20	0.156	6	6	135	11.5	9.4	7.9	6.8	5.8	5.0	4.4	50-002	RTA20C6BD-**
20	0.188	6	6	170	14.3	11.9	10.0	8.6	7.4	6.5	5.7	50-003	RTA20D6BD-**
20	0.156	7	6	210	17.3	14.4	12.2	10.5	9.1	8.0	7.0	50-004	RTA20C7BD-**
20	0.188	7	7	260	21.4	17.8	15.2	13.1	11.4	9.9	8.8	50-005	RTA20D7BD-**
20	0.156	8	7	295	24.1	20.2	17.2	14.9	12.9	11.3	10.0	50-006	RTA20C8BD-**
20	0.188	8	8	300	29.7	25.0	21.3	18.4	16.1	14.1	12.5	50-007	RTA20D8BD-**
25	0.156	6	6	85	7.0	5.5	4.5	3.8	3.2	2.7	2.2	50-062	RTA25C6BD-**
25	0.188	6	6	110	9.2	7.4	6.2	5.2	4.4	3.7	3.2	50-063	RTA25D6BD-**
25	0.156	7	6	140	11.6	9.4	7.9	6.7	5.7	4.9	4.3	50-064	RTA25C7BD-**
25	0.188	7	7	175	14.7	12.1	10.2	8.7	7.5	6.5	5.6	50-065	RTA25D7BD-**
25	0.156	8	7	205	16.9	14.0	11.8	10.1	8.7	7.6	6.6	50-066	RTA25C8BD-**
25	0.188	8	7	255	21.0	17.5	14.8	12.7	11.0	9.6	8.4	50-067	RTA25D8BD-**
25	0.219	8	8	300	24.9	20.8	17.7	15.2	13.2	11.6	10.2	50-068	RTA25E8BD-**
25	0.250	8	8	300	28.9	24.2	20.6	17.8	15.5	13.5	11.9	50-069	RTA25F8BD-**
30	0.156	7	6	90	7.5	5.9	4.8	3.9	3.3	2.7	2.3	50-124	RTA30C7BD-**
30	0.188	7	7	120	10.0	8.0	6.6	5.5	4.6	3.9	3.4	50-125	RTA30D7BD-**
30	0.156	8	7	140	11.8	9.5	7.9	6.7	5.7	4.9	4.2	50-126	RTA30C8BD-**
30	0.188	8	7	180	15.1	12.4	10.4	8.8	7.6	6.5	5.6	50-127	RTA30D8BD-**
30	0.219	8	8	220	18.2	15.0	12.7	10.8	9.3	8.1	7.0	50-128	RTA30E8BD-**
30	0.250	8	8	260	21.3	17.6	14.9	12.8	11.0	9.6	8.4	50-129	RTA30F8BD-**
30	0.188	9	8	255	20.9	17.4	14.7	12.6	10.9	9.4	8.2	50-131	RTA30D9BD-**
30	0.250	9	9	300	29.1	24.4	20.8	17.9	15.5	13.5	11.9	50-133	RTA30F9BD-**
30	0.188	10	9	300	27.7	23.3	19.8	17.0	14.7	12.8	11.1	50-139	RTA30D1CD-**
35	0.156	8	7	95	7.9	6.2	5.0	4.1	3.4	2.8	2.3	50-186	RTA35C8BD-**
35	0.188	8	7	130	10.6	8.5	7.0	5.8	4.9	4.1	3.5	50-187	RTA35D8BD-**
35	0.219	8	8	160	13.2	10.7	8.9	7.5	6.4	5.4	4.7	50-188	RTA35E8BD-**
35	0.250	8	8	190	15.8	12.9	10.8	9.1	7.8	6.7	5.8	50-189	RTA35F8BD-**
35	0.188	9	8	190	15.5	12.7	10.7	9.0	7.7	6.6	5.6	50-191	RTA35D9BD-**
35	0.250	9	9	270	22.2	18.4	15.6	13.3	11.4	9.9	8.6	50-193	RTA35F9BD-**
35	0.188	10	9	255	21.1	17.7	14.9	12.7	10.9	9.3	8.0	50-199	RTA35D1CD-**
35	0.219	10	9	300	25.4	21.3	18.1	15.4	13.3	11.5	9.9	50-200	RTA35E1CD-**
35	0.250	10	9	300	29.7	25.0	21.2	18.2	15.7	13.6	11.9	50-201	RTA35F1CD-**
35	0.312	10	10	300	38.1	32.2	27.4	23.6	20.5	17.8	15.6	50-202	RTA35G1DD-**
40	0.188	8	7	90	7.1	5.4	4.3	3.4	2.8	2.2	1.8	50-247	RTA40D8BD-**
40	0.219	8	8	115	9.3	7.3	5.9	4.8	4.0	3.3	2.7	50-248	RTA40E8BD-**
40	0.250	8	8	140	11.5	9.1	7.5	6.2	5.2	4.4	3.7	50-249	RTA40F8BD-**
40	0.188	9	8	135	11.3	9.1	7.5	6.2	5.2	4.3	3.6	50-251	RTA40D9BD-**
40	0.250	9	9	205	16.9	13.9	11.6	9.8	8.3	7.1	6.1	50-253	RTA40F9BD-**
40	0.188	10	9	190	16.1	13.4	11.2	9.4	7.9	6.7	5.6	50-259	RTA40D1CD-**
40	0.219	10	9	240	19.7	16.4	13.8	11.7	10.0	8.5	7.2	50-260	RTA40E1CD-**
40	0.250	10	9	280	23.3	19.4	16.4	14.0	12.0	10.3	8.8	50-261	RTA40F1CD-**
40	0.312	10	10	300	30.4	25.5	21.6	18.5	15.9	13.8	12.0	50-262	RTA40G1DD-**

RTA - ROUND TAPERED ALUMINUM POLE | **NO ARM** | **DIRECT BURIED**

FLORIDA BUILDING CODE GUIDE
2017 FBC EPA's

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CITY OF TAMPA
APPROVED SITE REVIEW ONLY, NOT VALID WITHOUT BUILDING PLANS
BLD-25-0517072
9/3/2025

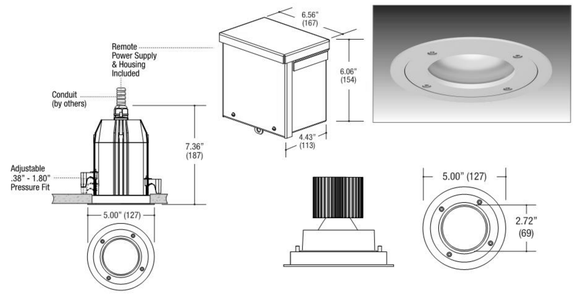
ILLUMINATION

BULLET

OUTDOOR RECESSED FIXED DOWNLIGHT

WET LOCATION - IP66 | **LED**

PROJECT	TYPE	CATALOG NUMBER



DOWNLIGHT
- Recessed fixed downlight
- Die-cast aluminum trim
- Powder coat finish

HOUSING
- Extruded aluminum central housing
- Powder coat finish
- Dust and water jet tight sealed
- **Ceiling Cut-Out ~ Ø4.65"**

LED SOURCE
- Field-changeable optic
- 20W / 1670lm, 80CRI / 3000K

ELECTRICAL
- Remotely installed LED driver included
- Separated primary wiring compartment with power supply
- Double cable entry for through wiring
- Superpure aluminum reflector
- Dimmable

MOUNTING
- Swing out pressure fit mounting clips
- Adjustable up to 1.80" max. ceiling thickness

LABELS
- Suitable for wet location
- IP66 rated

5 YEAR WARRANTY Limited

ORDERING INFO

SERIES	WATTAGE	CRI / COLOR	BEAM	DRIVER	FINISH
5811-1SA-T **BULLET Recessed** Die-Cast Aluminum Trim Fixed Downlight Trimmed Fixture	**20L** 20W LED 1670lm nom.	**8027** 80CRI / 2700K **8030** 80CRI / 3000K **8035** 80CRI / 3500K **8040** 80CRI / 4000K **9027** 90CRI / 2700K **9030** 90CRI / 3000K **9727** 97CRI / 2700K **9730** 97CRI / 3000K	**N** Narrow 25° **M** Medium 45° **W** Wide 55°	**DMU** Dimming Multiple Forward/Reverse (120V only) 0-10V Wires Present (120-277V) **D31** Lutron Hi-lume® Forward Phase 2 wire 1% (120V only) **DEU** Lutron Hi-lume® EcoSystem® 1% w/Soft-On, Fade-to-Black® 1% (120-277V)	**SS** Silver

Ordering Example: **5811-1SA-T-20L-8030-M-DMU-SS**

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We reserve the right to change or withdraw specifications without prior notice.

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Fax: 818-576-1335

www.lfillumination.com
rev: 042921

City of Tampa
CONSTRUCTION SERVICES DIVISION
PLANS APPROVAL
BLD-25-0517072 9/3/2025
THIS SET OF PLANS MUST BE KEPT ON THE JOB AT ALL TIMES
It is unlawful to make changes or alterations without written approval from the City of Tampa Construction Services Division.
This Stamp is the property of the City of Tampa and is held to permit inspection and approval of any City or State Codes.
REVIEWED FOR CODE COMPLIANCE

Architects Design Group
HOWARD+ASSOCIATES ARCHITECTS, P.A.
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Location: ...
Date: 2024.11.22 08:38:23-05'00'

JUSTIN L MUNDELL FL-70700
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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:

PERMIT DOCUMENTS

ISSUE DATE:

09/09/2024

REVISIONS:

DRAWN BY: **SN**
CHECKED BY: **JLM**

TPD HOWARD AVENUE ANNEX BUILDING

LITHONIA LIGHTING

Catalog Number	
Notes	
Type	

FEATURES & SPECIFICATIONS

INTENDED USE — For areas that require good vertical illumination and excellent glare control at low mounting heights. Ideal for open areas, retail spaces and aisles. Not for use or installation in direct outdoor sunlight. Must be installed under canopy or covered ceiling. For direct sunlight installations, please refer to the FEL product family. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.

Certain airborne contaminants may adversely affect the functioning of LEDs and other electronic components, depending on various factors such as concentrations of the contaminants, ventilation, and temperature at the end-user location. Click here for a list of substances that may not be suitable for interaction with LEDs and other electronic components.

CONSTRUCTION — One-piece SVA rated fiberglass housing with integral perimeter channel utilizes continuous poured-in-place NEMA 4X gasket. Simple two-piece design consists of housing and optical assembly to streamline installation process. Polymeric latches positively attach to housing and keep from becoming a hindrance during install.

OPTICS — Injection-molded, acrylic lens (.080" thick), provides high impact-resistance comparable to 100% DR. F1 rated for outdoor use, lenses resist breaking, yellowing or becoming brittle over time. UV stabilized polycarbonate diffuser available (.080" thick) in clear or frosted for additional impact strength. Polycarbonate lens is recommend for lower mounting heights where vandal protection is desired.

ELECTRICAL — Tool-less one piece optical assembly combines LEDs and lens into one component. Optical assembly easily connects to housing with plug and play harness, eliminating time consuming wiring connections. High-efficiency drivers operate 120-480V offered with 0-10V dimming, allowing granular control when coupled with wireless networking controls. Luminaire Surge Protection Level: Designed to withstand up to 2.5kV/0.75kA per ANSI C82.77-5-2015.

L85 at 60,000 hours.

INSTALLATION — Two-piece design makes installations faster than ever by simplifying wiring connections. Power connection is easily accommodated through pre-drilled holes at each end, optional wet location fittings available for maximum flexibility.

Stainless steel (#316) surface spring-mounting brackets with bail wires standard (2 included) allow for ceiling, wall or suspended mount.

Swivel stem(provided by others) when pendant mounting. Factory installed junction box option accommodates up to 4X4 sized boxes and includes integrated gasket to maintain wet location listings.

Quick Mount Bracket (QMB) ships installed on fixture and is recommended for fastest surface mount installs, ideal for end to end installations or larger jobs.

LISTINGS — CSA Certified to UL and C-UL standards. NEMA 4X rated. IP ratings: IP65 and IP66 rated. See page 3 for ambients.

NSF listed for Splash Zone II.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

GOVERNMENT PROCUREMENT — BAA – Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations. BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy_american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:
www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

LED Enclosed and Gasketed

DMW2



Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

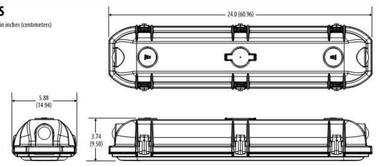
- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

DIMENSIONS

All dimensions are shown in inches (centimeters) unless otherwise noted.



PHOTOMETRICS

Please see www.lithonia.com.

DMW2 LED Wet Location

A+ Capable options indicated by this color background.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. **Example:** DMW2 L24 4000LM PCL MD MVOLT GZ10 40K 80CRI

Series[1]	Length	Nominal lumens	Diffuser	Distribution	Voltage	Driver	Color temperature	Color rendering index
DMW2 LED wet location	L24 24"	2000LM 2,000 lumens 3000LM 3,000 lumens 4000LM 4,000 lumens	ACL Acrylic AFL Frosted acrylic PCL Polycarbonate PFL Frosted Polycarbonate	MD Medium distribution WD Wide distribution	MVOLT 120-277V 120 120V 208 208V 240 240V 277 277V 347 347V[1] 480 480V[1]	GZ10 0-10V Dimming	30K 3000 K 35K 3500 K 40K 4000 K 50K 5000 K	80CRI 80 CRI 90CRI 90 CRI

Options			
PS1050	Emergency LED battery pack for 0°C and up (1400 lumens), 10W, CA Title 20 noncompliant [2]	CS88	6' Brad Harrison 16/3 cord and straight blade plug set, NEMA 4X rated [4]
E10WCP	EM Self-diagnostics battery pack, 10W, Constant Power Certified in CA Title 20 MAEDBS [2,3]	CS88L12	12' Brad Harrison 16/3 cord and straight blade plug set, NEMA 4X rated [4]
PMP4X	Pendant monopoint with NEMA4X fitting (not available with JSB option) [4,5]	CS88R	Brad Harrison receptacle, NEMA 4X rated [4]
WLFEND	Wet location fitting (one fitting out end) [6]	NOM	Nom certified
WLFEND2	Wet location fitting (fittings out both ends) [6]	TPS	Torx10 tamper-resistant screws
JSB	Junction box snap-bracket [7]	STSL	Stainless steel latches
QMB	Quick-mount ceiling bracket [7]	SPD	10KV surge protection device [10]
CSB9	6' white cord, 16/3, no plug, wet location [4]	BAA	Buy America(n) Act Compliant
CS89L12	12' white cord, 16/3, no plug, wet location [4]		

MS10NWL	Low mount 360 integral motion sensor, wet location, On/Off operation [8]		
MS10I2LSWWL	Low mount 360 integral motion sensor, wet location, High/Low operation (3 level) [8]		
MS10NWL DSCWWL	low mount 360 integral motion sensor, wet location , On/Off operation for motion sensing, override Off due to daylight [11]		
NLTAIR2 RSBOR10	nLight AIR Generation 2 enabled 360° low mount motion sensor [12]		

Accessories: *Order as separate catalog number.*	
RK1 T10BIT W/PIN U	Hex-base driver bit, Torx TX10, for tamper-resistant screws with center reject pin
DMW2WLF	Wet location fitting
DMW2QMB	Quick-mount ceiling bracket

Notes

1. Plastic latches supplied as standard. Provided with 2X KO plugs at both ends.
2. Not available with JSB, PMP4X mounting options. Not available with CS88 cord sets or CS88R receptacle. Must specify voltage. Not available with 347, 480V. Maximum ambient temperature 25°C.
3. Not for field install.
4. Not available with PS1050 option. Not available with QMB, JSB mounting options.
5. Not available with WLFEND2. Not available with PS1050. Not available with cordsets or sensors.
6. Not available with WLFEND, PS1050, CS cord sets, or MSI sensors.
7. Not available with other mounting options
8. Not available with other cord sets. Not available with PS1050 option.
9. Receptacle only. Not available with PS1050.
10. Not available with PS1050, SR0K & RSBOR.
11. Not available with other external MSI sensors or WLFEND2. Must specify voltage.
12. Not available with other external MSI sensors or WLFEND2. Normal luminaires (non-emergency) can be used as a normal power sensing device for nearby nLight AIR devices and luminaires with EM emergency options.

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WDGE2 LED

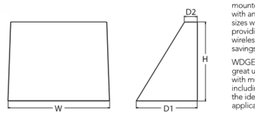
Architectural Wall Sconce
Precision Refractive Optic

Catalog Number	
Notes	
Type	

Hit the 'tab' key to mouse over the page to see all interactive elements

Specifications

Depth (D1): 7"
Depth (D2): 1.5"
Height: 9"
Width: 11.5"
Weight: (without options) 13.5 lbs



Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE2 with industry leading precision refractive optics provides great uniform distribution and optical control. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WDGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.

design select Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect. *See ordering tree for details

WDGE LED Family Overview

Luminaire	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	Approximate Lumens (4000K, 80CRI) P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	--	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE2 LED P3 40K 80CRI T3M MVOLT SRM DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE2 LED	P0[1] P1[1] P2[1] P3[1] P4[1]	27K 2700K 30K 3000K 40K 4000K 50K 5000K AMB[1] Amber	70CRI[1] 80CRI LW[1] Limited Wavelength	T1S Type I Short T2M Type II Medium T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium	MVOLT 347[1] 480[1]	**Shipped included** SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only)[2] **Shipped separately** AWS 3/8inch Architectural wall spacer PBBW Surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available

Options				Finish	
E10WH	Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min)	**Standalone Sensors/Controls**		DDBXD	Dark bronze
E20WH	Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, -20°C min)	PIR	Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.	DBLXD	Black
PE[1]	Photocell, Button Type	PIRH	Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching	DNAXD	Natural aluminum
DMG[1]	0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)	PIR1FC3V	Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation.	DWHXD	White
BCE	Bottom conduit entry for back box (PBBW). Total of 4 entry points.	PIRH1FC3V	Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.	DSSXD	Sandstone
CCE	Coastal Construction	**Networked Sensors/Controls**		DDBTXD	Textured dark bronze
		NLTAIR2 PIR	Embedded wireless controls by nLight with Passive Infrared Occ sensor and on/off photocell for 8-15' mounting heights.	DBLBXD	Textured black
		NLTAIR2 PIRH	Embedded wireless controls by nLight with Passive Infrared Occ sensor and on/off photocell for 15-30' mounting heights.	DNATXD	Textured natural aluminum
		NLTAIREM2	Embedded wireless controls by nLight with UL924 listed emergency operation, Passive Infrared Occ sensor and on/off	DWHGXD	Textured white
		PIRH	photocell for 15-30' mounting heights	DSSTXD	Textured sandstone

See page 4 for out of box functionality

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BLD-25-0517072 9/3/2025
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ADG PROJECT NO. **1087**
C.o.T. NO. **24-C-00032**

PROJECT STATUS:
PERMIT DOCUMENTS

ISSUE DATE:
09/09/2024

REVISIONS:

DRAWN BY: **SN**
CHECKED BY: **JLM**

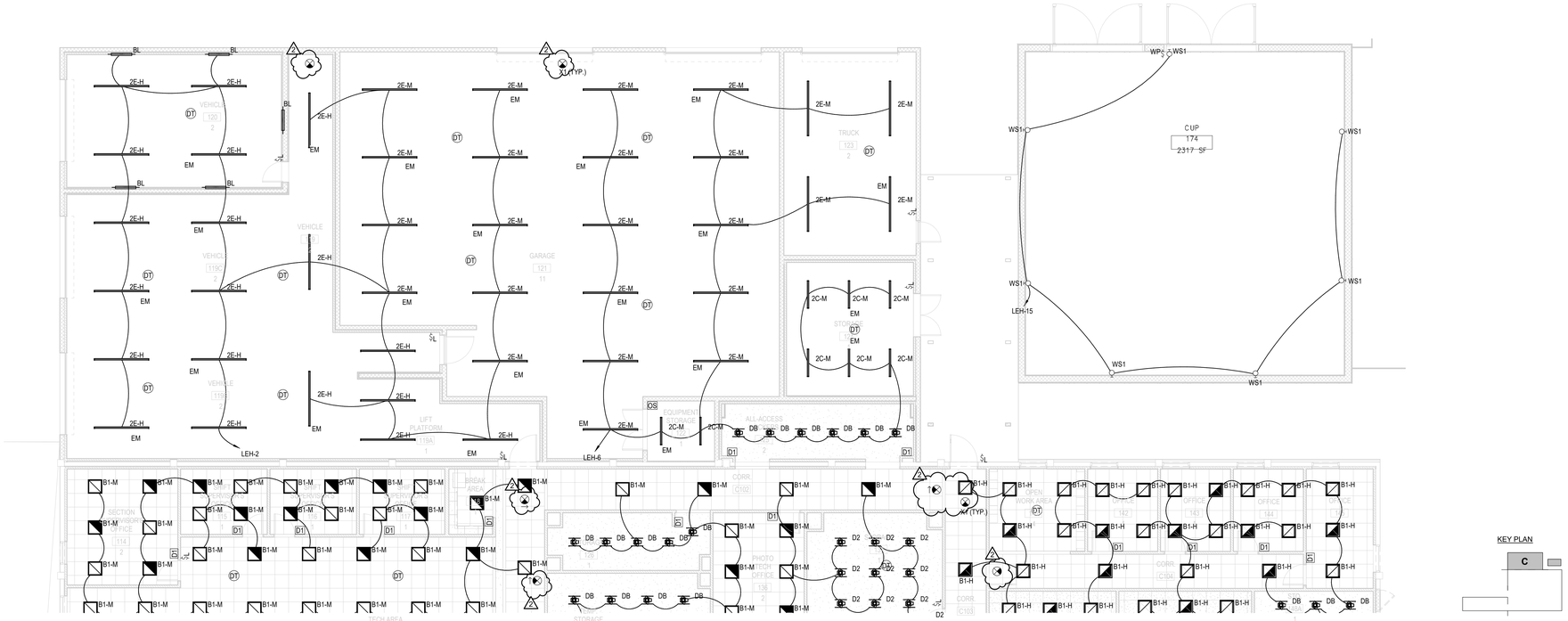
TPD HOWARD AVENUE ANNEX BUILDING

ELECTRICAL LIGHTING DETAILS

TRUE PROJECT NORTH:

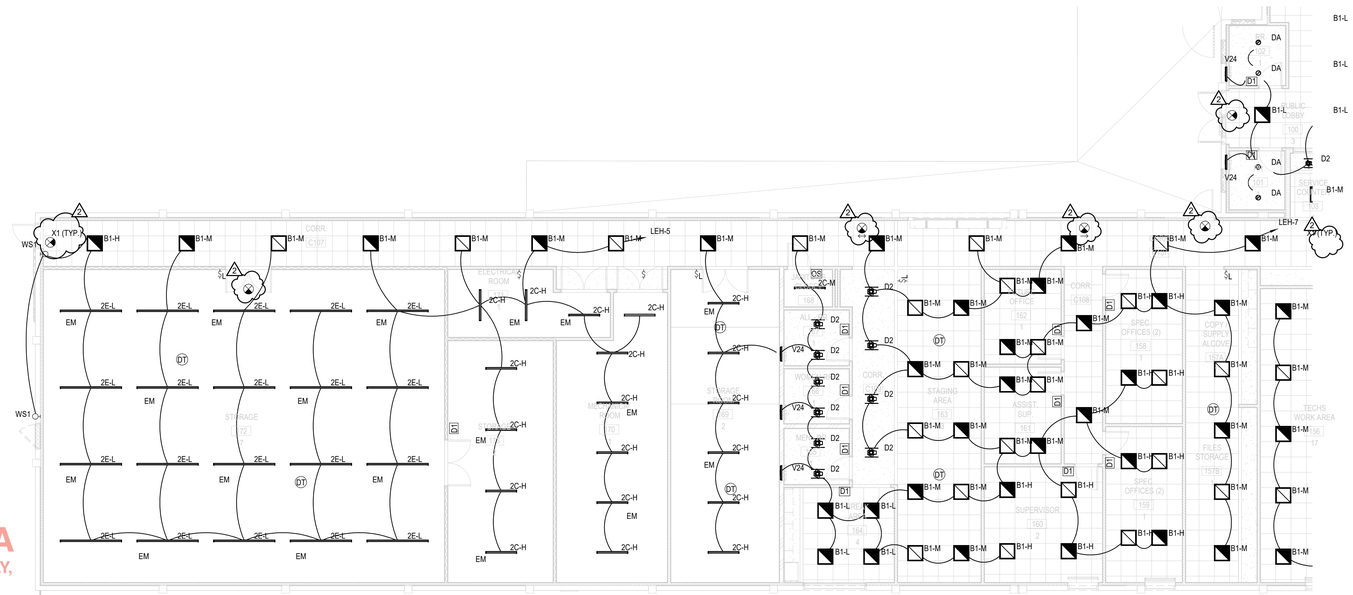
E-105

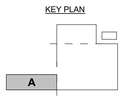
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9/3/2025



LIGHTING PLAN - AREA C

2 E-201 1/8" = 1'-0"





LIGHTING PLAN - AREA A

1 E-201 1/8" = 1'-0"

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09/03/2025

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b. REFER TO BOOK SPECIFICATIONS.

c. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS TO COORDINATE THE EXACT PLACEMENT OF ALL DEVICES, EQUIPMENT, FIXTURES, SWITCHES, LIGHTING AND OUTLETS.

d. REFER TO EQUIPMENT SCHEDULES FOR DISCONNECT, CONDUIT AND WIRE SIZES.

e. CONNECT ALL EMERGENCY BATTERY UNITS AND EXIT FIXTURES AHEAD OF ALL SWITCHING TO LOCAL LIGHTING CIRCUIT.

f. PLANS ARE DIAGRAMMATIC IN NATURE. CEILING AND WALL-MOUNTED DECEIVES ARE SHOWN IN APPROXIMATE LOCATIONS. REFER TO ARCHITECTURAL CEILING PLANS AND ELEVATIONS. COORDINATE WITH ALL OTHER TRADES PRIOR TO ROUGH-IN.

g. MAINTAIN A CLEARANCE OF AT LEAST 3'-0" IN FRONT OF THE ELECTRICAL PANELS.

h. ALL EXTERIOR LIGHTING TO BE CONTROLLED VIA PHOTOCELL ON/ PHOTOCELL OFF.

i. CORRIDOR LIGHTING TO BE ON 24/7.

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SGM #: 2023-335
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JUSTIN L MUNDELL FL-70700

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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:
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09/09/2024

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2	8/18/2025	PERMIT COMMENTS

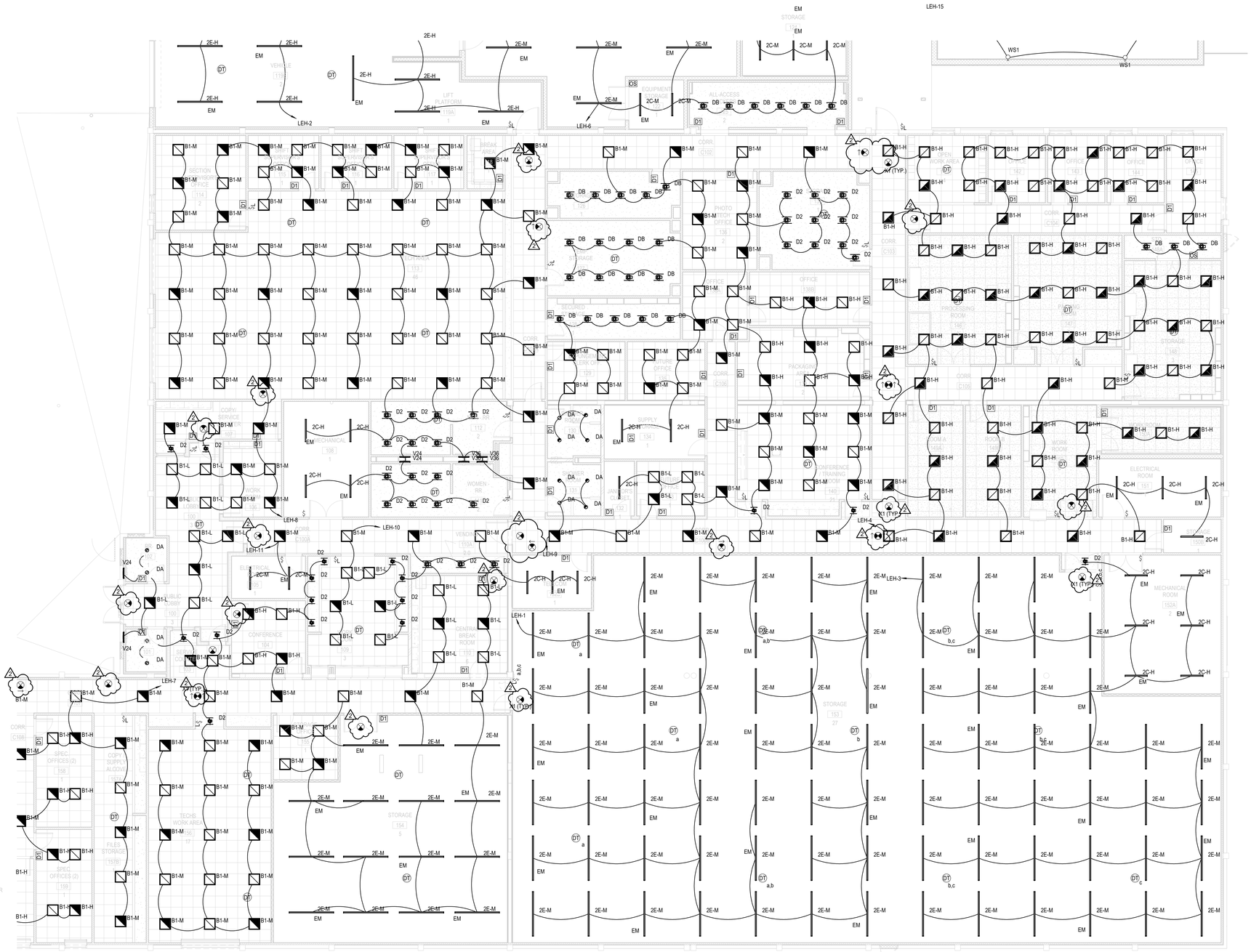
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TPD HOWARD AVENUE ANNEX BUILDING

LIGHTING FLOOR PLAN AREA A&C

TRUE PROJECT NORTH:

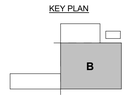
E-201



1 E-202 **LIGHTING PLAN - AREA B**

1/8" = 1'-0"

KEY PLAN



GENERAL NOTES:

a. REFER TO SYMBOL LEGEND ON SHEET E-001.

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g. MAINTAIN A CLEARANCE OF AT LEAST 3'-0" IN FRONT OF THE ELECTRICAL PANELS.

h. ALL EXTERIOR LIGHTING TO BE CONTROLLED VIA PHOTOCELL ON/ PHOTOCELL OFF.

i. CORRIDOR LIGHTING TO BE ON 24/7.

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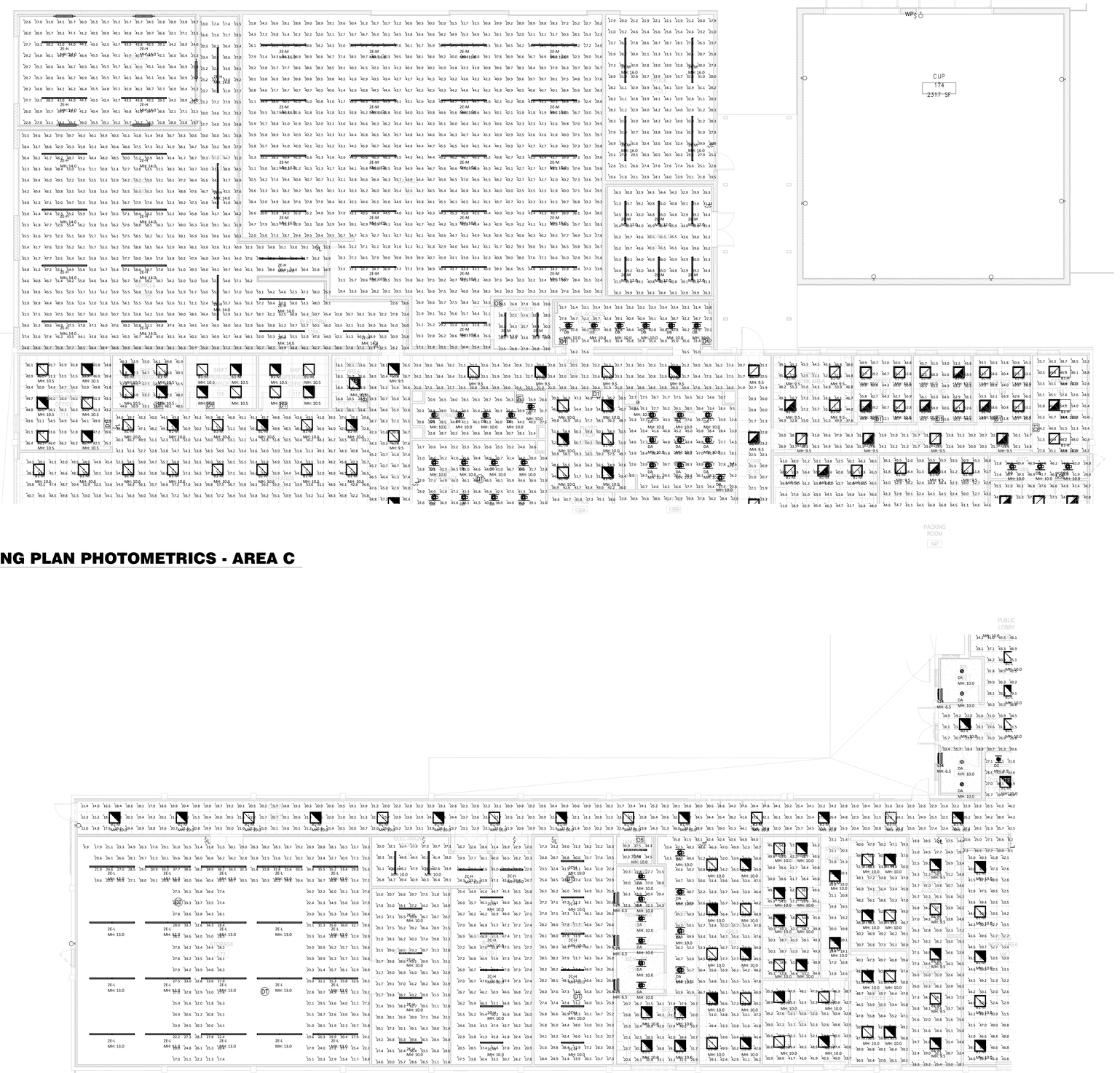
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TPD HOWARD AVENUE ANNEX BUILDING

LIGHTING FLOOR PLAN AREA B

TRUE PROJECT NORTH:

E-202



2 LIGHTING PLAN PHOTOMETRICS - AREA C
E-203P 1/8" = 1'-0"

1 LIGHTING PLAN PHOTOMETRICS - AREA A
E-203P 1/8" = 1'-0"

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d. REFER TO EQUIPMENT SCHEDULES FOR DISCONNECT, CONDUIT AND WIRE SIZES.

e. CONNECT ALL EMERGENCY BATTERY UNITS AND EXIT FIXTURES AHEAD OF ALL SWITCHING TO LOCAL LIGHTING CIRCUIT.

f. PLANS ARE DIAGRAMMATIC IN NATURE. CEILING AND WALL-MOUNTED DECEIVES ARE SHOWN IN APPROXIMATE LOCATIONS. REFER TO ARCHITECTURAL CEILING PLANS AND ELEVATIONS. COORDINATE WITH ALL OTHER TRADES PRIOR TO ROUGH-IN.

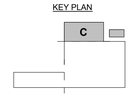
g. MAINTAIN A CLEARANCE OF AT LEAST 3'-0" IN FRONT OF THE ELECTRICAL PANELS.

h. ALL EXTERIOR LIGHTING TO BE CONTROLLED VIA PHOTOCELL ON/ PHOTOCELL OFF.

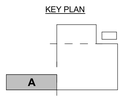
i. CORRIDOR LIGHTING TO BE ON 24/7.

i. REFER TO PHOTOMETRIC CALCULATIONS ON SHEET E-002.

KEY PLAN



KEY PLAN



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CONSTRUCTION SERVICES DIVISION
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BLD-25-0517072 9/3/2025
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333 North Knowles Avenue
Winter Park, Florida 32789

HOWARD+ASSOCIATES
ARCHITECTS, P.A.
2050 Henderson Blvd., Ste. 2068
Tampa, FL 33629 • 813.872.8888

SGM ENGINEERING
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ORLANDO, FL 32814
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ADG PROJECT NO. 1087

C.o.T. NO. 24-C-00032

PROJECT STATUS:
PERMIT DOCUMENTS

ISSUE DATE:
09/09/2024

REVISIONS:

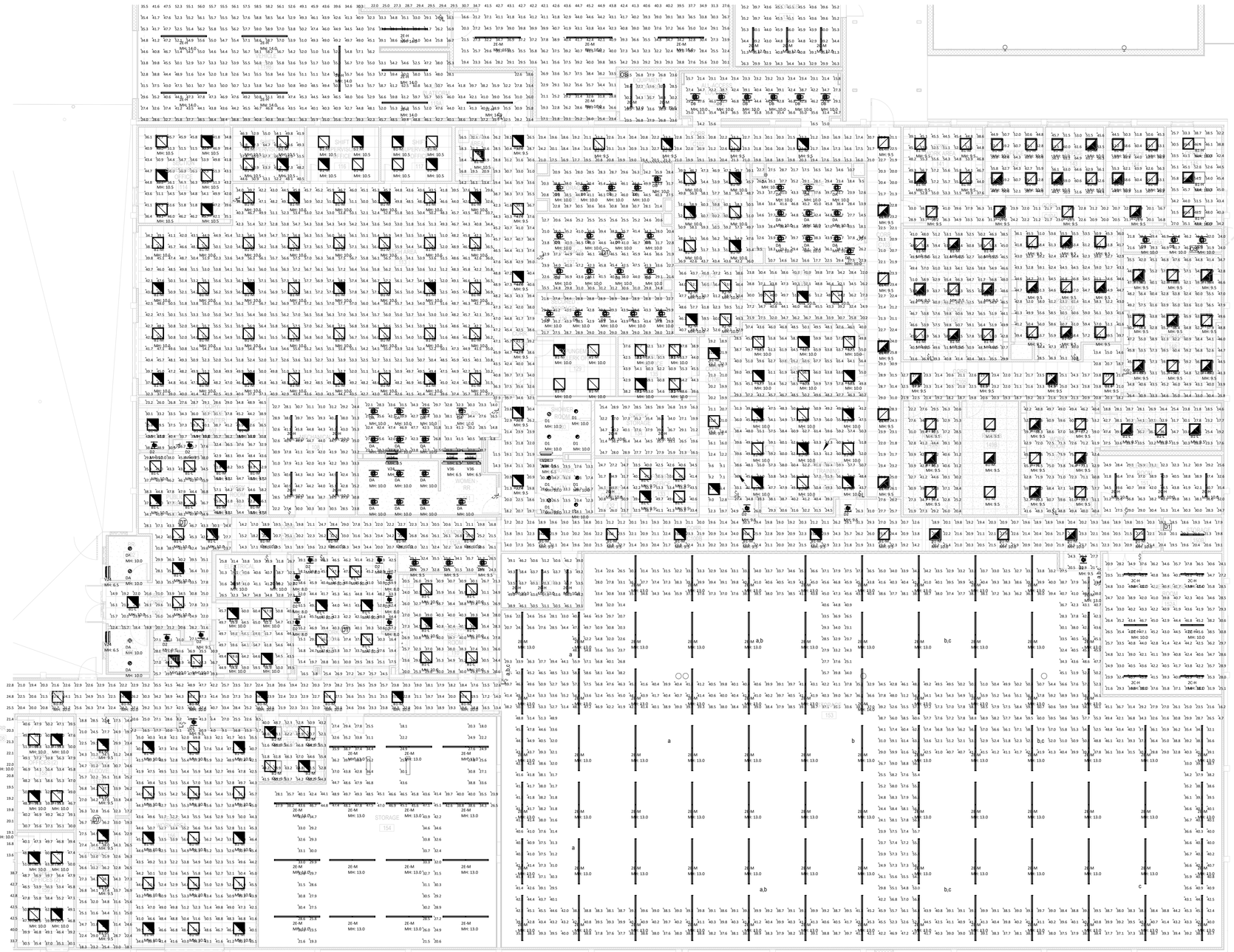
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TPD HOWARD AVENUE ANNEX BUILDING

LIGHTING FLOOR PLAN AREA A&C PHOTOMETRICS

TRUE PROJECT NORTH:

E-203P



1 LIGHTING PLAN PHOTOMETRICS - AREA B

E-204P 1/8" = 1'-0"

CITY OF TAMPA
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9/3/2025

GENERAL NOTES:

a. REFER TO SYMBOL LEGEND ON SHEET E-001.

b. REFER TO BOOK SPECIFICATIONS.

c. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS TO COORDINATE THE EXACT PLACEMENT OF ALL DEVICES, EQUIPMENT, FIXTURES, SWITCHES, LIGHTING AND OUTLETS.

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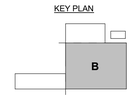
g. MAINTAIN A CLEARANCE OF AT LEAST 3'-0" IN FRONT OF THE ELECTRICAL PANELS.

h. ALL EXTERIOR LIGHTING TO BE CONTROLLED VIA PHOTOCELL ON/ PHOTOCELL OFF.

i. CORRIDOR LIGHTING TO BE ON 24/7.

i. REFER TO PHOTOMETRIC CALCULATIONS ON SHEET E-002.

KEY PLAN



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C.o.T. NO. 24-C-00032

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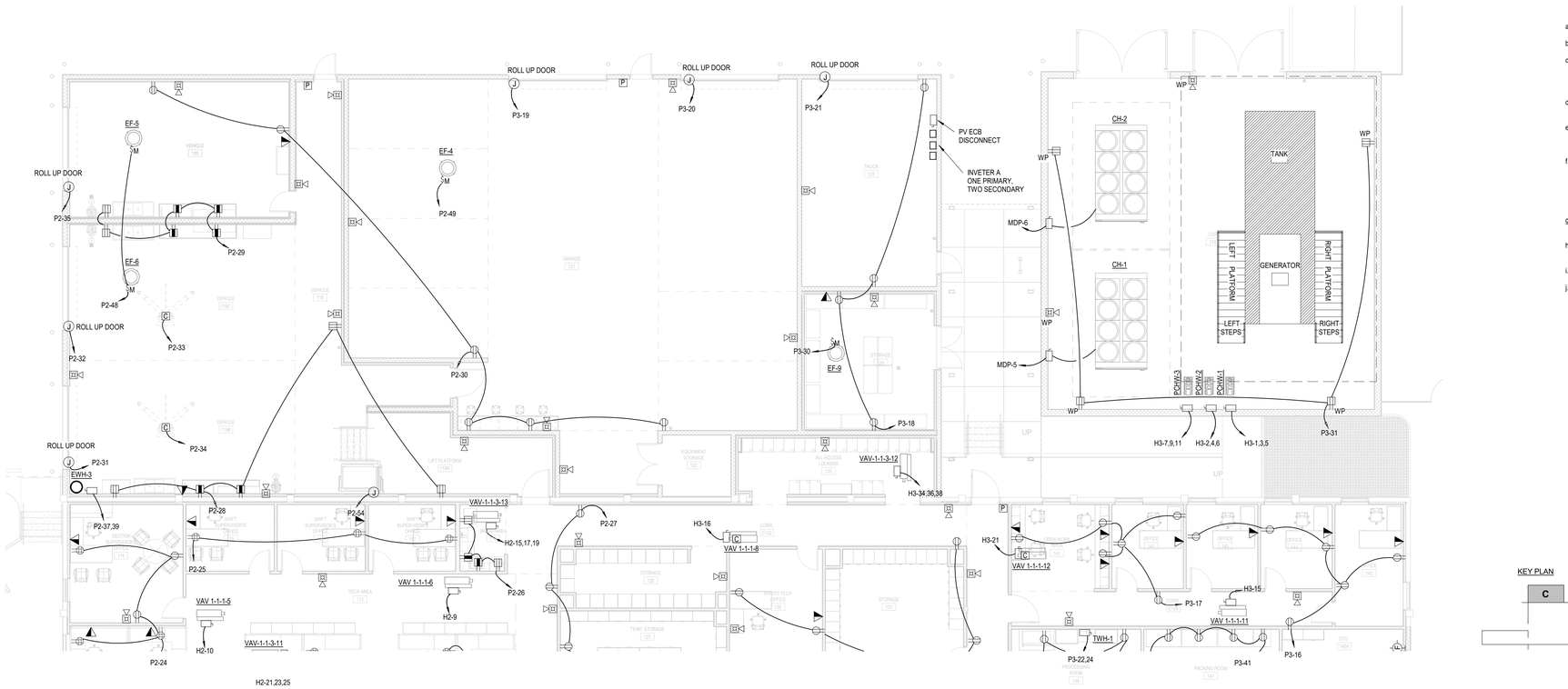
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TPD HOWARD AVENUE ANNEX BUILDING

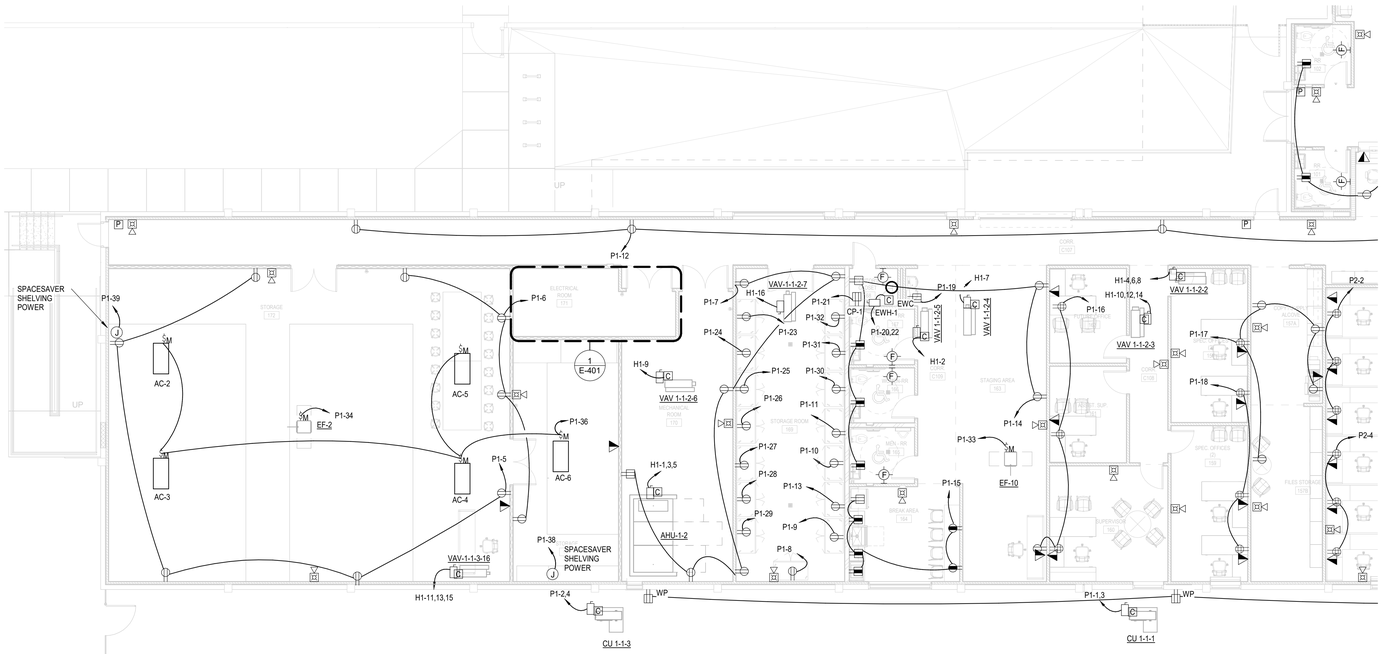
LIGHTING FLOOR PLAN AREA B PHOTOMETRICS

TRUE PROJECT NORTH:

E-204P



2 E-301 **POWER PLAN - AREA C**
1/8" = 1'-0"



1 E-301 **POWER PLAN - AREA A**
1/8" = 1'-0"

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C.o.T. NO. **24-C-00032**

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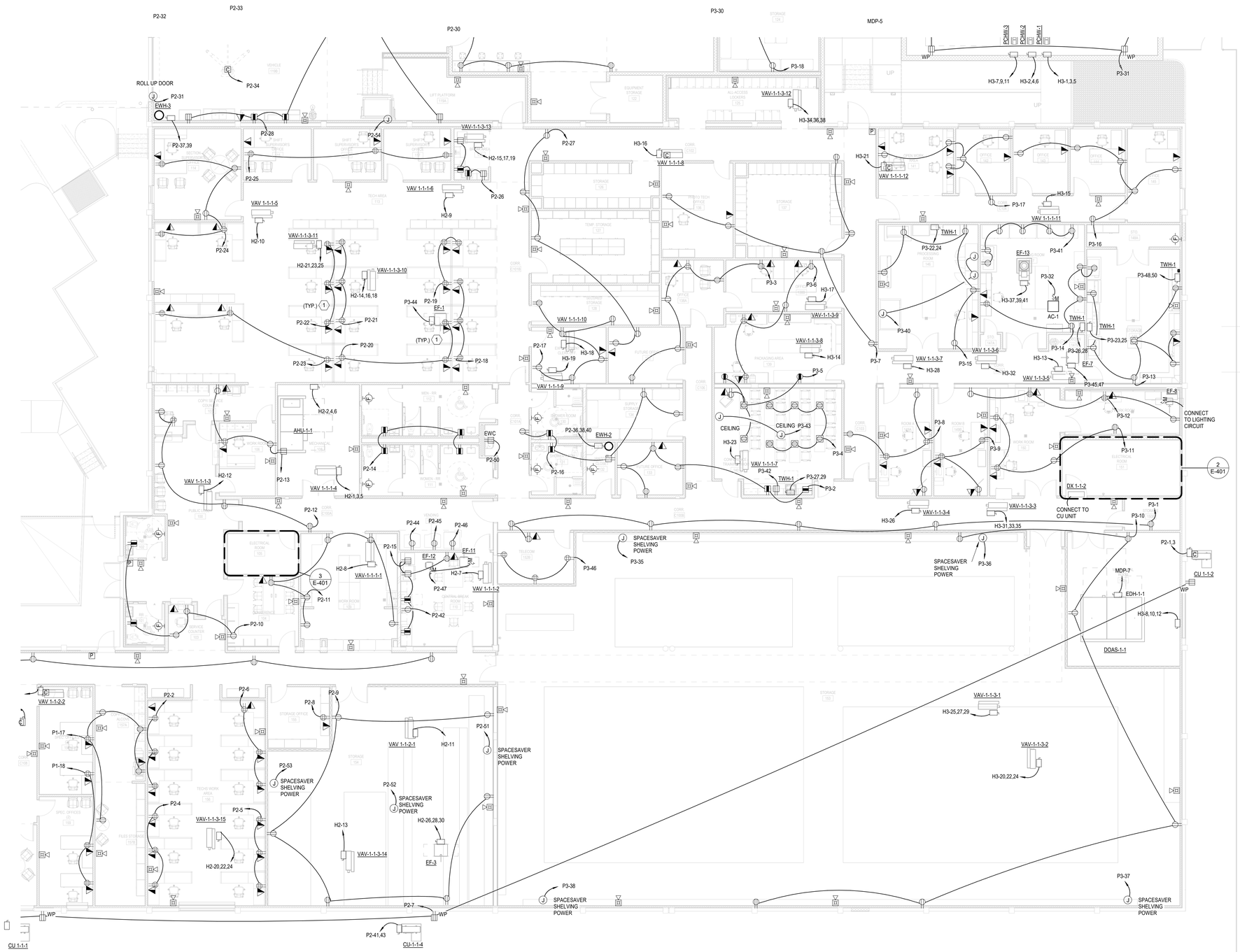
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CHECKED BY: **JLM**

TPD HOWARD AVENUE ANNEX BUILDING

POWER FLOOR PLAN AREA A&C

TRUE PROJECT NORTH:

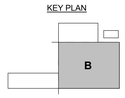
E-301



POWER PLAN - AREA B

1 E-302 1/8" = 1'-0"

KEY PLAN



GENERAL NOTES:

a. REFER TO SYMBOL LEGEND ON SHEET E-001.

b. REFER TO BOOK SPECIFICATIONS.

c. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS TO COORDINATE THE EXACT PLACEMENT OF ALL DEVICES, EQUIPMENT, FIXTURES, SWITCHES, LIGHTING AND OUTLETS.

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g. MAINTAIN A CLEARANCE OF AT LEAST 3'-0" IN FRONT OF THE ELECTRICAL PANELS.

h. ALL EXTERIOR LIGHTING TO BE CONTROLLED VIA PHOTOCELL ON/ PHOTOCELL OFF.

i. CORRIDOR LIGHTING TO BE ON 24/7.

PLAN KEY NOTES: (#)

1. PROVIDE POWER TO WORKSTATIONS THROUGH CUBICLE RACEWAYS. COORDINATE FINAL CONNECTIONS WITH FURNITURE VENDOR. ADJUST IF REQUIRED BASED ON FINAL CUBICLE SPECIFICATIONS.

CITY OF TAMPA
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BLD-25-0517072
9/3/2025

City of Tampa
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BLD-25-0517072 9/3/2025
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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:

PERMIT DOCUMENTS

ISSUE DATE:

09/09/2024

REVISIONS:

DRAWN BY: **SN**

CHECKED BY: **JLM**

TPD HOWARD AVENUE ANNEX BUILDING

POWER FLOOR PLAN AREA B

TRUE PROJECT NORTH:

E-302

GENERAL NOTES:

a. REFER TO SYMBOL LEGEND ON SHEET E-001.

b. REFER TO BOOK SPECIFICATIONS.

c. PROVIDE A COMPLETE CLASS 1 LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 780 AND UL96A. AT THE COMPLETION OF THE PROJECT, PROVIDE THE OWNER WITH A UL MASTER LABEL CERTIFICATION FOR EACH BUILDING. THE REQUIREMENTS SHOWN ARE THE MINIMUM REQUIREMENTS AND ANY ADDITIONAL REQUIREMENTS TO MEET UL MASTER LABEL STANDARDS SHOULD BE PROVIDED AS THOUGH SHOWN ON THESE DRAWINGS AT NO ADDITIONAL COST.

d. MINIMUM RADIUS OF CONDUCTOR BENDS SHALL BE 8".

e. ALL BELOW GRADE CONNECTIONS SHALL BE MADE WITH EXOTHERMIC WELDS. BOLTED CONNECTIONS MAY BE USED FOR ABOVE GRADE CONNECTIONS ONLY.

f. CONDUCTORS SHALL BE FASTENED TO THE STRUCTURE AT INTERVALS NOT EXCEEDING 3'.

g. ALL METAL BODIES WITHIN 6' OF CONDUCTORS AND ALL MECHANICAL VENTS, FANS AND EQUIPMENT MUST BE BONDED TO THE SYSTEM PER NFPA 780 STANDARDS.

h. ALL SPLICES MUST BE MADE PER NFPA 780 STANDARDS.

i. REFER TO LIGHTNING PROTECTION DETAILS ON SHEET E-804

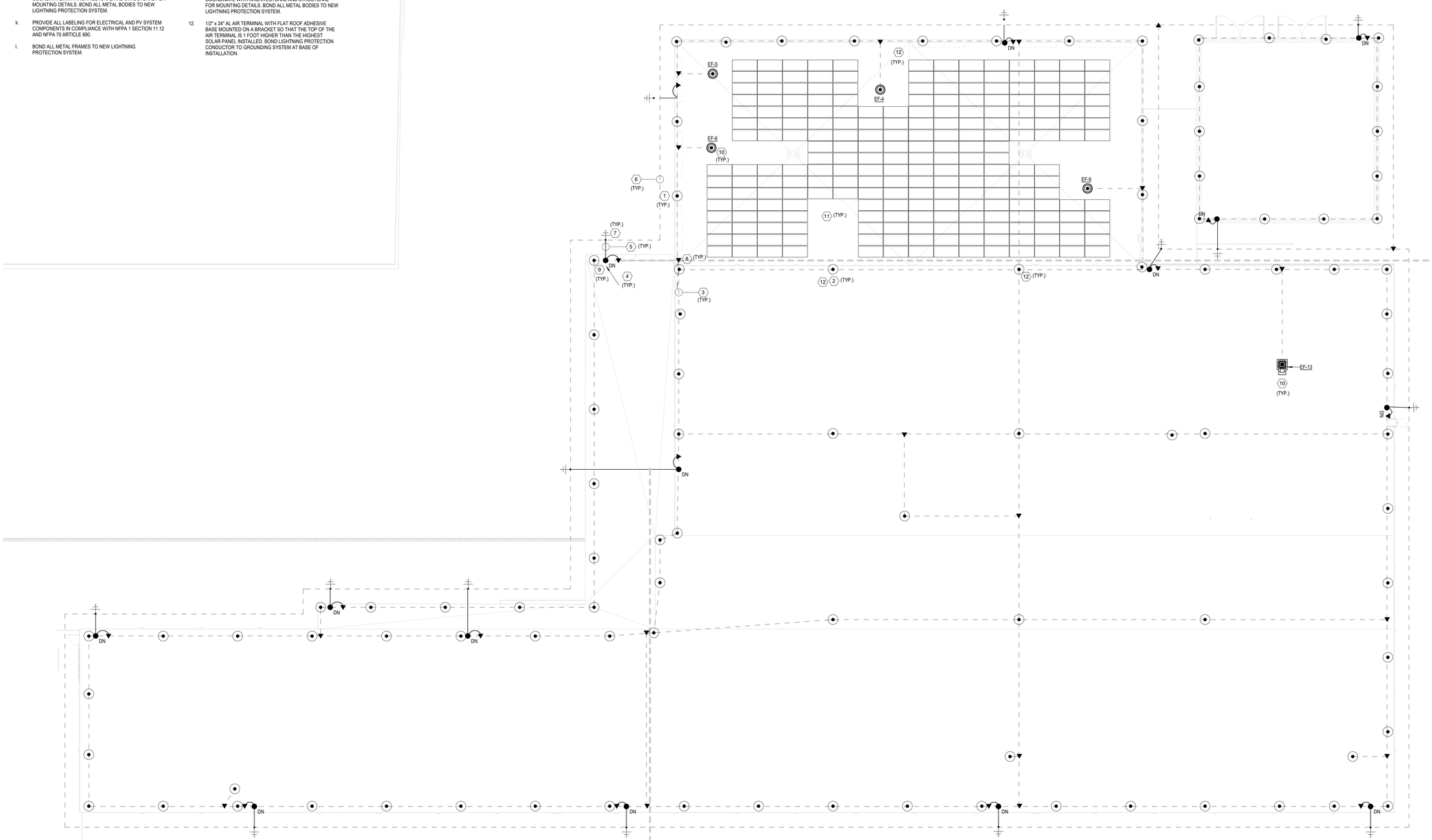
j. PROVIDE INTERCONNECTION OF SOLAR PANELS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATEWITH ARCHITECTURAL AND STRUCTURAL FOR MOUNTING DETAILS. BOND ALL METAL BODIES TO NEW LIGHTNING PROTECTION SYSTEM.

k. PROVIDE ALL LABELING FOR ELECTRICAL AND PV SYSTEM COMPONENTS IN COMPLIANCE WITH NFPA 1 SECTION 11.12 AND NFPA 70 ARTICLE 690.

l. BOND ALL METAL FRAMES TO NEW LIGHTNING PROTECTION SYSTEM.

PLAN KEY NOTES: (#)

1. 1/2" x 12" AL AIR TERMINAL WITH FLAT ROOF ADHESIVE BASE.
2. 1/2" x 24" AL AIR TERMINAL WITH FLAT ROOF ADHESIVE BASE.
3. ROOF TOP MAIN CONDUCTOR, RUN EXPOSED ACROSS ROOF OR ON PARAPET WALL CONCEALED FROM VIEW.
4. PROVIDE THRU ROOF 2-3/8" PVC WATERPROOF CONNECTION.
5. COPPER DOWN CONDUCTOR IN PVC CONDUIT, RUN CONCEALED IN STRUCTURE, DOWN TO BURIED COUNTERPOISE CONDUCTOR.
6. BURIED COUNTERPOISE CONDUCTOR RUN 3' BELOW GRADE AT MINIMUM 4' FROM THE STRUCTURE.
7. 3/4" X 20' COPPER CLAD GROUND ROD AND TEST WELL.
8. BOND EXPOSED CONDUCTOR TO TOP OF CANOPY SUPPORT COLUMN.
9. BOND COUNTERPOISE CONDUCTOR TO BASE OF CANOPY SUPPORT COLUMN.
10. 1/2" x 24" AL AIR TERMINAL WITH FLAT ROOF ADHESIVE BASE MOUNTED TO TOP OF MECHANICAL EQUIPMENT. BOND LIGHTING PROTECTION CONDUCTOR TO MECHANICAL EQUIPMENT AT BASE OF EQUIPMENT.
11. PROVIDE INTERCONNECTION OF SOLAR PANELS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL FOR MOUNTING DETAILS. BOND ALL METAL BODIES TO NEW LIGHTNING PROTECTION SYSTEM.
12. 1/2" x 24" AL AIR TERMINAL WITH FLAT ROOF ADHESIVE BASE MOUNTED ON A BRACKET SO THAT THE TOP OF THE AIR TERMINAL IS 1 FOOT HIGHER THAN THE HIGHEST SOLAR PANEL INSTALLED. BOND LIGHTNING PROTECTION CONDUCTOR TO GROUNDING SYSTEM AT BASE OF INSTALLATION.



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VALID FOR ONE YEAR
ELECTRICAL PLANS
BLD25-0517072
9/3/2025

POWER - ROOF PLAN - LIGHTNING PROTECTION

1 / E-303 3/32" = 1'-0"

City of Tampa
CONSTRUCTION SERVICES DIVISION
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BLD25-0517072 9/3/2025
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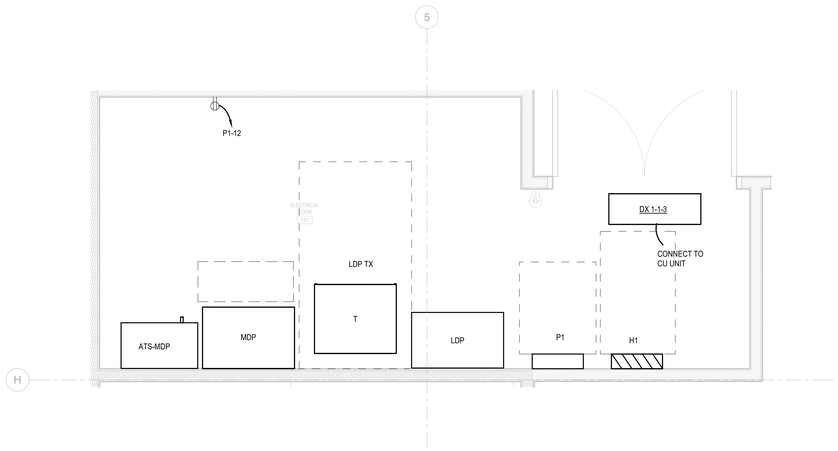
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TPD HOWARD AVENUE ANNEX BUILDING

ELECTRICAL ROOF PLAN - LIGHTNING PROTECTION

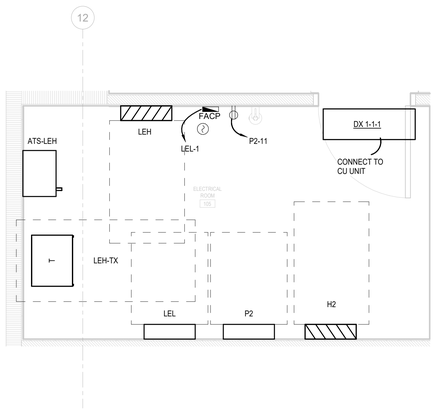
TRUE PROJECT NORTH:

E-303



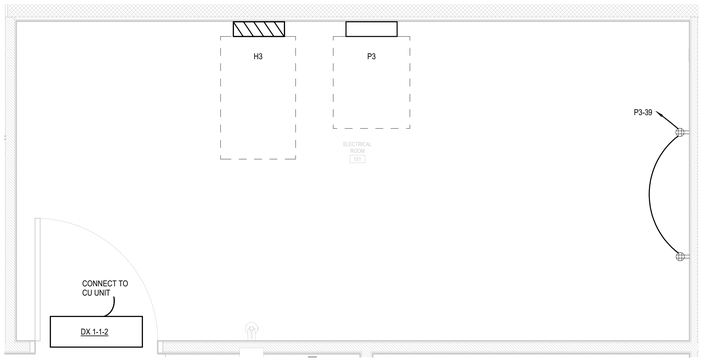
1 E-401 POWER PLAN - AREA A - ELEC RM

1/2" = 1'-0"



3 E-401 POWER PLAN - AREA B - ELEC RM

1/2" = 1'-0"



2 E-401 POWER PLAN - AREA B - ELEC / COMM RM

1/2" = 1'-0"

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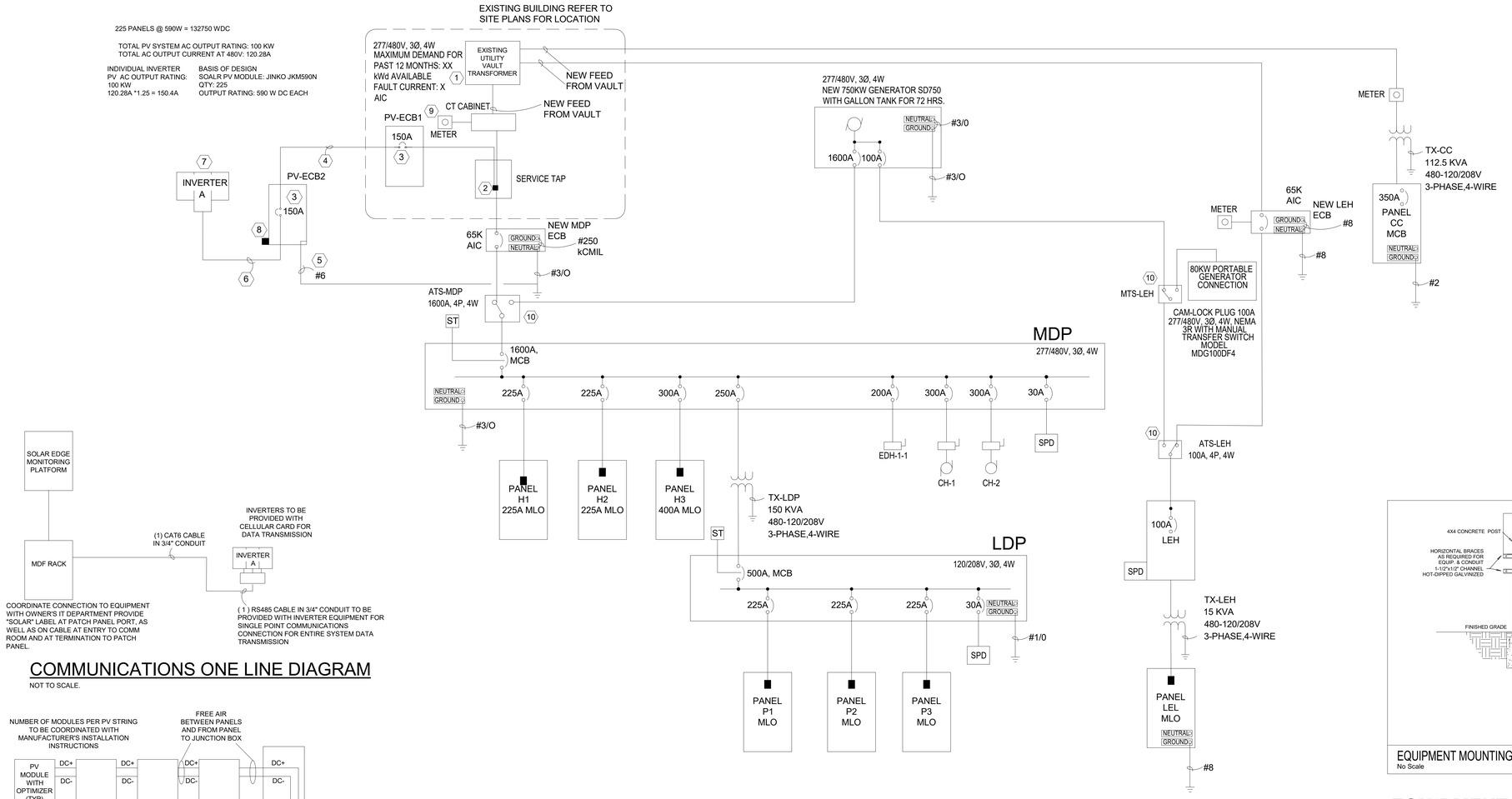
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TPD HOWARD AVENUE ANNEX BUILDING

ELECTRICAL ENLARGED PLANS

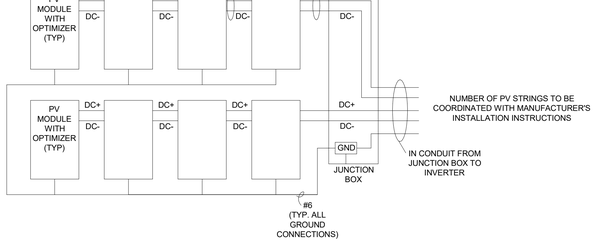
TRUE PROJECT NORTH:

E-401



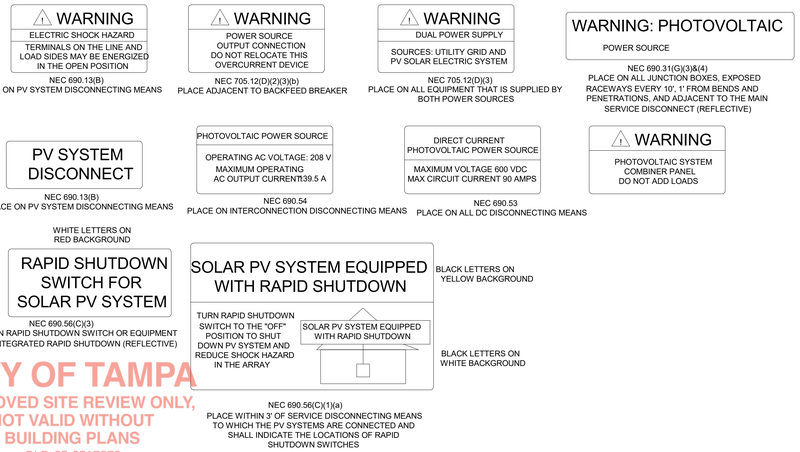
COMMUNICATIONS ONE LINE DIAGRAM

NOT TO SCALE.



TYPICAL PV SYSTEM DIAGRAM

NOT TO SCALE.



TYPICAL PV SYSTEM LABELS

ALL LABELS TO BE RED WITH MINIMUM 3/8" WHITE LETTERS

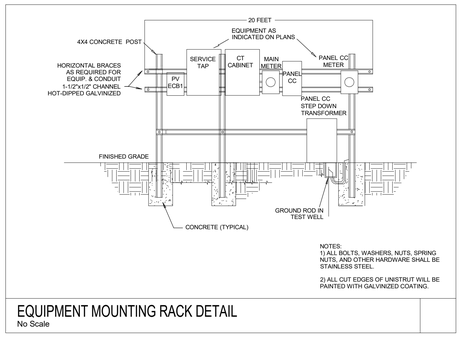
CITY OF TAMPA
APPROVED SITE REVIEW ONLY, NOT VALID WITHOUT BUILDING PLANS
BLD-25-0517072
9/3/2025

GENERAL NOTES:

a. REFER TO SYMBOL LEGEND AND GENERAL NOTES ON SHEET E-001.
b. REFER TO BOOK SPECIFICATIONS.
c. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS TO COORDINATE EXACT PLACEMENT OF ALL DEVICES, EQUIPMENT, FIXTURES, SWITCHES AND OUTLETS.
d. REFER TO EQUIPMENT SCHEDULES ON SHEET E-601 FOR DISCONNECT, CONDUIT AND WIRE SIZES.
e. ALL COMPUTER CIRCUITS SHALL HAVE DEDICATED NEUTRAL FROM LOAD TO SOURCE EQUIPMENT.
f. ALL FEEDERS ARE TO HAVE LESS THAN 2% TOTAL VOLTAGE DROP AND ALL BRANCH CIRCUITS SHALL HAVE LESS THAN 3% VOLTAGE DROP.
g. IF CIRCUITS ARE COMBINED AND RUN AS MULTI-WIRE BRANCH CIRCUITS SHARING A COMMON NEUTRAL, THEN EACH UNGROUNDED CONDUCTOR MUST BE DISCONNECTED SIMULTANEOUSLY BY A COMMON TRIP CIRCUIT BREAKER. CONTRACTOR MAY, AT THEIR OPTION, PROVIDE EITHER COMMON TRIP MULTI-POLE CIRCUIT BREAKERS OR UTILIZE MANUFACTURERS LISTED HANDLE TIES IN ORDER TO PROVIDE THE SIMULTANEOUS TRIP. THESE DEVICES ARE NOT SHOWN IN THE PANEL SCHEDULES AND MUST BE PROVIDED BY THIS SCOPE OF WORK. NO MORE THAN 3 CURRENT CARRYING CONDUCTORS MAY BE COMBINED IN A SINGLE RACEWAY WITHOUT PRIOR APPROVAL BY THE ENGINEER OF RECORD (EOR).

PLAN KEY NOTES: (#)

1. EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT TO REMAIN, SHOWN FOR REFERENCE ONLY.
2. IDENTIFY LINE SIDE SERVICE CONDUCTORS AND PROVIDE NEW NEMA 3R, 24" X 36" TERMINAL BOX WITH HINGED LOCKABLE COVER OVER EXISTING CONDUITS SO THAT SPLICE IS MADE ON SERVICE PRIOR TO MAIN DISCONNECT. PROVIDE (4) PRE-INSULATED TERMINAL BLOCKS, POLARIS IPLDH750-6 OR APPROVED EQUAL, FOR CONNECTION OF PARALLEL PHASE CONDUCTORS AND NEUTRALS. PROVIDE NEW SERVICE CONDUCTORS FROM SPLICE TERMINALS TO EXISTING MAIN SERVICE DISCONNECT. COORDINATE REQUIRED SHUTDOWN WITH OWNER AND PROVIDE A MINIMUM OF 72 HOUR ADVANCED NOTICE. PLAN WORK TO MINIMIZE SHUTDOWN DURATION.
3. PROVIDE NEW NEMA 3R, 250V, 3 PHASE, 42KAIC, SERVICE ENTRANCE RATED, 150A ENCLOSED CIRCUIT BREAKER. PROVIDE LABEL PER NFPA 1 SECTION 11.12.2.1 FOR PV SERVICE DISCONNECT.
4. PROVIDE NEW FEEDER. SEE PANEL FEEDER SCHEDULE FOR CONDUIT AND WIRE SIZES.
5. PROVIDE CONNECTION TO NEW GROUNDING ELECTRODE WITH #6 CU. BOND TO NEUTRAL CONDUCTOR AND INTERIOR OF ECB ENCLOSURE.
6. PROVIDE NEW FEEDER. SEE PANEL FEEDER SCHEDULE FOR CONDUIT AND WIRE SIZES.
7. PROVIDE NEW PV INVERTER EQUIPMENT AND CONNECT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. BASIS OF DESIGN: SOLAR EDGE SE100KUS.
8. PROVIDE SURGE PROTECTION DEVICE.
9. COORDINATE WITH UTILITY COMPANY AND PROVIDE SIGN AT EXISTING METER FOR PV SHUTDOWN LOCATION.
10. ATS'S / MTS TO BE SERVICE ENTRANCE RATED.



NOTES:
1) ALL BOLTS, WASHERS, NUTS, SPRING NUTS, AND OTHER HARDWARE SHALL BE STAINLESS STEEL.
2) ALL CUT EDGES OF UNISTRUT WILL BE PAINTED WITH GALVINIZED COATING.

EQUIPMENT MOUNTING RACK DETAIL
No Scale

1 E-501 EQUIPMENT MOUNTING RACK DETAIL

3/16" = 1'-0"

PANEL FEEDER SCHEDULE: COPPER

* WIRE SIZES ARE BASED ON NFPA 70 TABLE 310.15(B)(16) 60 DEGREE CU COLUMN FOR SIZES OF 100A AND LESS, ALL OTHERS BASED ON 75 DEGREE COLUMN.
**LOAD AMPS AND DISTANCE SHOWN FOR VD CALCULATION ONLY. SEE PANEL SCHEDULE FOR ACTUAL LOAD. ACTUAL DISTANCE MAY VARY DEPENDENT ON ROUTING.

FEEDER DESCRIPTION		VOLTS	PH	NEUT	200% NEUT	GRND	ISO GND	MAIN OCP	LOAD	DISCONNECT			WIRE PER	NEUT WIRE	ADD NEUT	GND WIRE	ISO GND	SYST BOND	# OF	CONDUIT	APPROX	VOLT	NOTES
SOURCE	LOAD			Y/N	Y/N	Y/N	Y/N	RATING	AMPS**	SIZE	FUSE	NEMA	PHASE*					JUMP	RUNS	SIZE	DIST.** FT	DROP VD%	
UTILITY TX	SERVICE TAP	480	3	Y	N	N	N	1600	1600				#600	#600				#350	4	4"			
SERVICE TAP	MDP ECB	480	3	Y	N	Y	N	1600	1600				#600	#600		#4/0			4	4"	230	0.83%	
MDP ECB	ATS-MDP	480	3	Y	N	Y	N	1600	1600				#600	#600		#4/0			4	4"	60	0.22%	
ATS-MDP	MDP	480	3	Y	N	Y	N	1600	1600				#600	#600		#4/0			4	4"	10	0.04%	
MDP	PANEL H1	480	3	Y	N	Y	N	225	225				#4/0	#4/0		#4			1	2-1/2"	10	0.05%	
MDP	PANEL H2	480	3	Y	N	Y	N	225	225				#4/0	#4/0		#4			1	2-1/2"	180	0.92%	
MDP	PANEL H3	480	3	Y	N	Y	N	300	300				#350	#350		#4			1	3"	350	1.48%	
MDP	TX-LDP	480	3	N	N	Y	N	250	250				#250			#4			1	2-1/2"	10	0.05%	
TX-LDP	PANEL LDP	208	3	Y	N	Y	N	500	500				#250	#250		#1/0		#1/0	2	3"	10	0.11%	
PANEL LDP	PANEL P1	208	3	Y	N	Y	N	225	225				#4/0	#4/0		#4			1	2-1/2"	10	0.12%	
PANEL LDP	PANEL P2	208	3	Y	N	Y	N	225	225				#250	#250		#3			1	3"	180	1.82%	
PANEL LDP	PANEL P3	208	3	Y	N	Y	N	225	225				#600	#600		#2/0			1	4"	350	1.64%	
UTILITY TX	LE ECB	480	3	Y	N	N	N	100	100				#3	#3				#8	1	1-1/4"			
LEH ECB	ATS-LEH	480	3	Y	N	Y	N	100	100				#3	#3		#8			1	1-1/4"	50	0.45%	
ATS-LEH	PANEL LEH	480	3	Y	N	Y	N	100	100				#3	#3		#8			1	1-1/4"	20	0.18%	
PANEL LEH	TX-LEH	480	3	N	N	Y	N	30	30				#10			#10			1	3/4"	20	0.26%	
TX-LEH	PANEL LEL	208	3	Y	N	Y	N	50	50				#8	#8		#8		#8	1	1"	20	0.65%	
GENERATOR	ATS-MDP	480	3	Y	N	Y	N	1600	1600				#600	#600		#4/0			4	4"	400	1.44%	
GENERATOR	ATS-LE	480	3	Y	N	Y	N	100	100				#2	#2		#6			1	1-1/2"	250	1.80%	
UTILITY TX	TX-CC	480	3	Y	N	N	N	200	200				#3/0	#3/0				#4	1	2"			
TX-CC	PANEL CC	208	3	Y	N	Y	N	350	350				#500	#500		#3			1	4"	10	0.08%	
SERVICE TAP	PV ECB1	480	3	Y	N	N	N	150	150	150	ECB	3R	#1/0	#1/0				#6	1	2"	10	0.06%	
PV ECB1	PV ECB2	480	3	Y	N	Y	N	150	150				#1/0	#1/0		#6			1	2"	220	1.43%	
PV ECB2	PANEL PV	480	3	Y	N	Y	N	150	150				#1/0	#1/0		#6			1	2"	10	0.06%	
PANEL PV	INVERTER A	480	3	Y	N	Y	N	150	150				#1/0	#1/0		#6			1	2"	10	0.06%	

City of Tampa
CONSTRUCTION SERVICES DIVISION
PLANS APPROVAL
BLD-25-0517072 9/3/2025
THIS SET OF PLANS MUST BE KEPT ON THE JOB SITE
It is unlawful to make changes or alterations without written approval from the City of Tampa Construction Services Division.
This Stamp is not to be construed as relief from or approval of any City of State Codes.
REVIEWED FOR CODE COMPLIANCE

HOWARD+ASSOCIATES ARCHITECTS, P.A. AA0003531
2030 Henderson Blvd., Ste. 2068 Tampa, FL 33629 • 813.872.8888
SGM ENGINEERING
935 LAKE BALDWIN LANE ORLANDO, FL 32814 TEL: 407-767-5186 FAX: 407-767-2972 CA-00006208
SGM #: 2023-335
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WWW.SGMENGINEERING.COM

Digitally signed by Justin L Mundell
DN: CN=Justin L Mundell, ...
Qualifier=A01410C0000018D1CF3B700208F30, C=SGM ENGINEERING INC, C=US
Date: 2024.11.22 08:38:39-05'00'

JUSTIN L MUNDELL FL-70700

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ADG PROJECT NO. 1087
C.o.T. NO. 24-C-00032

PROJECT STATUS:
PERMIT DOCUMENTS

ISSUE DATE:
09/09/2024

REVISIONS:

DRAWN BY: SN
CHECKED BY: JLM

TPD HOWARD AVENUE ANNEX BUILDING

ELECTRICAL ONE LINE DIAGRAM

TRUE PROJECT NORTH:

E-501

EQUIPMENT FEEDER SCHEDULE:

* WIRE SIZES ARE BASED ON NFPA 70 TABLE 310.15(B)(16) 60 DEGREE CU COLUMN FOR SIZES OF 100A OR LESS, ALL OTHERS BASED ON 75 DEGREE COLUMN.

**DISTANCE SHOWN FOR VOLTAGE DROP CALCULATION ONLY. ACTUAL DISTANCE MAY VARY DEPENDENT ON ROUTING.

EQUIPMENT DESCRIPTION	VOLTS	PH	NEUT Y/N	MOTOR (LARGEST)		ADDITIONAL MOTORS		HEAT STRIPS		MISC AMPS	TOTAL AMPS	MIN CKT A	PNL. C.B.	DISCONNECT		STARTER		WIRE PER	NEUT WIRE	GND WIRE	# OF	CONDUIT SIZE	APPROX DIST.**	VOLT DROP	NOTES
				H.P.	FLA	H.P.	FLA	KW	AMPS			MCA	SIZE	SIZE	OCPD	SIZE	NEMA TYPE	PHASE*			RUNS		FT	VD%	
CH-1	480	3	Y		50.60		160.80				211.4	226.0	300	400			3R	#4/0	#4/0	#4	1	3"	120	0.58%	
CH-2	480	3	Y		50.60		160.80				211.4	226.0	300	400			3R	#4/0	#4/0	#4	1	3"	120	0.58%	
AHU-1	480	3	Y	7.50	11.00						11.0	13.8	15	30			1	#12	#12	#12	1	3/4"	50	0.40%	
AHU-2	480	3	Y	7.50	11.00						11.0	13.8	15	30			1	#12	#12	#12	1	3/4"	50	0.40%	
DOAS-1-1	480	3	Y	15.00	21.00		63.00				84.0	89.3	110	200			1	#2	#2	#6	1	2"	50	0.30%	
DX-1-1-1 / CU-1-1-1	208	1	Y		17.00						17.0	21.3	25	30			1/3R	#10	#10	#10	1	3/4"	120	2.35%	
DX-1-1-2 / CU-1-1-2	208	1	Y		17.00						17.0	21.3	25	30			1/3R	#10	#10	#10	1	3/4"	40	0.78%	
DX-1-1-3 / CU-1-1-3	208	1	Y		17.00						17.0	21.3	25	30			1/3R	#10	#10	#10	1	3/4"	60	1.18%	
DX-1-1-4 / CU-1-1-4	208	1	Y		17.00						17.0	21.3	25	30			1/3R	#10	#10	#10	1	3/4"	100	1.96%	
VAV-1-1-1-1	277	1	Y					1.0	3.6		3.6	4.5	15	30			1	#12	#12	#12	1	3/4"	80	0.42%	
VAV-1-1-1-2	277	1	Y					1.5	5.4		5.4	6.8	15	30			1	#12	#12	#12	1	3/4"	70	0.55%	
VAV-1-1-1-3	277	1	Y					2.5	9.0		9.0	11.3	15	30			1	#12	#12	#12	1	3/4"	70	0.91%	
VAV-1-1-1-4	480	3	Y					4.5	5.4		5.4	6.8	15	30			1	#12	#12	#12	1	3/4"	70	0.27%	
VAV-1-1-1-5	277	1	Y					1.5	5.4		5.4	6.8	15	30			1	#12	#12	#12	1	3/4"	60	0.47%	
VAV-1-1-1-6	277	1	Y					1.0	3.6		3.6	4.5	15	30			1	#12	#12	#12	1	3/4"	80	0.42%	
VAV-1-1-1-7	277	1	Y					1.5	5.4		5.4	6.8	15	30			1	#12	#12	#12	1	3/4"	70	0.55%	
VAV-1-1-1-8	277	1	Y					1.0	3.6		3.6	4.5	15	30			1	#12	#12	#12	1	3/4"	70	0.36%	
VAV-1-1-1-9	277	1	Y					1.0	3.6		3.6	4.5	15	30			1	#12	#12	#12	1	3/4"	70	0.36%	
VAV-1-1-1-10	277	1	Y					0.5	1.8		1.8	2.3	15	30			1	#12	#12	#12	1	3/4"	60	0.16%	
VAV-1-1-1-11	277	1	Y					1.0	3.6		3.6	4.5	15	30			1	#12	#12	#12	1	3/4"	60	0.31%	
VAV-1-1-1-12	277	1	Y					1.0	3.6		3.6	4.5	15	30			1	#12	#12	#12	1	3/4"	50	0.26%	
VAV-1-1-2-1	277	1	Y					3.00	10.8		10.8	13.5	15	30			1	#12	#12	#12	1	3/4"	50	0.78%	
VAV-1-1-2-2	480	3	Y					4.00	4.8		4.8	6.0	15	30			1	#12	#12	#12	1	3/4"	50	0.17%	
VAV-1-1-2-3	480	3	Y					6.00	7.2		7.2	9.0	15	30			1	#12	#12	#12	1	3/4"	40	0.21%	
VAV-1-1-2-4	277	1	Y					1.50	5.4		5.4	6.8	15	30			1	#12	#12	#12	1	3/4"	40	0.31%	
VAV-1-1-2-5	277	1	Y					2.00	7.2		7.2	9.0	15	30			1	#12	#12	#12	1	3/4"	40	0.42%	
VAV-1-1-2-6	277	1	Y					1.50	5.4		5.4	6.8	15	30			1	#12	#12	#12	1	3/4"	40	0.31%	
VAV-1-1-2-7	277	1	Y					1.0	3.6		3.6	4.5	15	30			1	#12	#12	#12	1	3/4"		0.00%	
VAV-1-1-3-1	480	3	Y					18.0	21.7		21.7	27.1	30	30			1	#10	#10	#10	1	3/4"	50	0.47%	
VAV-1-1-3-2	480	3	Y					18.0	21.7		21.7	27.1	30	30			1	#10	#10	#10	1	3/4"	40	0.38%	
VAV-1-1-3-3	480	3	Y					5.0	6.0		6.0	7.5	15	30			1	#12	#12	#12	1	3/4"	40	0.17%	
VAV-1-1-3-4	277	1	Y					4.0	14.4		14.4	18.1	20	30			1	#12	#12	#12	1	3/4"	40	0.83%	
VAV-1-1-3-5	277	1	Y					4.0	14.4		14.4	18.1	20	30			1	#12	#12	#12	1	3/4"	40	0.83%	
VAV-1-1-3-6	277	1	Y					4.0	14.4		14.4	18.1	20	30			1	#12	#12	#12	1	3/4"	40	0.83%	
VAV-1-1-3-7	277	1	Y					2.5	9.0		9.0	11.3	15	30			1	#12	#12	#12	1	3/4"	40	0.52%	
VAV-1-1-3-8	277	1	Y					4.0	14.4		14.4	18.1	20	30			1	#12	#12	#12	1	3/4"	50	1.04%	
VAV-1-1-3-9	277	1	Y					3.0	10.8		10.8	13.5	15	30			1	#12	#12	#12	1	3/4"	50	0.78%	
VAV-1-1-3-10	480	3	Y					12.0	14.5		14.5	18.1	20	30			1	#12	#12	#12	1	3/4"	50	0.52%	
VAV-1-1-3-11	480	3	Y					6.0	7.2		7.2	9.0	15	30			1	#12	#12	#12	1	3/4"	60	0.31%	
VAV-1-1-3-12	480	3	Y					6.0	7.2		7.2	9.0	15	30			1	#12	#12	#12	1	3/4"	60	0.31%	
VAV-1-1-3-13	480	3	Y					13.0	15.7		15.7	19.6	20	30			1	#12	#12	#12	1	3/4"	70	0.79%	
VAV-1-1-3-14	277	1	Y					3.0	10.8		10.8	13.5	15	30			1	#12	#12	#12	1	3/4"	70	1.09%	
VAV-1-1-3-15	480	3	Y					20.0	24.1		24.1	30.1	20	30			1	#8	#8	#10	1	1"	70	0.47%	
VAV-1-1-3-16	480	3	Y					20.0	24.1		24.1	30.1	35	30			1	#8	#8	#10	1	1"	80	0.54%	
PCHW-1	480	3	Y	10.00	14.00						14.0	17.5	20	30			1	#12	#12	#12	1	3/4"	100	1.01%	
PCHW-2	480	3	Y	10.00	14.00						14.0	17.5	20	30			1	#12	#12	#12	1	3/4"	100	1.01%	
PCHW-3	480	3	Y	10.00	14.00						14.0	17.5	20	30			1	#12	#12	#12	1	3/4"	100	1.01%	
EF-1	120	1	Y	1.00	16.00						16.0	20.0	20	30			1	#6	#6	#6	1	1-1/4"	150	1.96%	
EF-2	120	1	Y	0.50	9.80						9.8	12.3	15	MMS			1	#12	#12	#12	1	3/4"	80	2.61%	
EF-3	480	3	Y	5.00	7.60						7.6	9.5	15	30			1	#12	#12	#12	1	3/4"	100	0.55%	
EF-4	120	1	Y	0.50	9.80						9.8	12.3	15	MMS			1	#10	#10	#10	1	3/4"	150	2.94%	
EF-5	120	1	Y	0.13	2.00						2.0	2.5	15	MMS			1	#12	#12	#12	1	3/4"	150	1.00%	
EF-6	120	1	Y	0.25	5.80						5.8	7.3	15	MMS			1	#12	#12	#12	1	3/4"	150	2.90%	
EF-7	208	1	Y	2.00	13.20						13.2	16.5	20	30			1	#12	#12	#12	1	3/4"	40	1.02%	
EF-8	120	1	Y	0.50	9.80						9.8	12.3	15	MMS			1	#12	#12	#12	1	3/4"	10	0.33%	
EWH-1	208	1	Y					2.5	12.0		12.0	15.0	20	30			1	#12	#12	#12	1	3/4"	50	1.16%	
EWH-2	208	3	Y					5.0	13.9		13.9	17.4	20	30			1	#12	#12	#12	1	3/4"	80	1.85%	
EWH-3	208	1	Y					3.0	14.4		14.4	18.0	20	30			1	#12	#12	#12	1	3/4"	100	2.77%	
CP-1	120	1	Y	0.13	2.00						2.0	2.5	15	MMS			1	#12	#12	#12	1	3/4"	50	0.33%	
TWH-1	208	1	Y					3.0	14.4		14.4	18.0	20	30			1	#12	#12	#12	1	3/4"	100	2.77%	
EF-9	120	1	Y	0.13	2.00						2.0	2.5	15	MMS			1	#12	#12	#12	1	3/4"	150	1.00%	
EF-10	120	1	Y	0.50	9.80						9.8	12.3	15	MMS			1	#12	#12	#12	1	3/4"	90	2.94%	
EF-11	120	1	Y	0.25	5.80						5.8	7.3	15	MMS			1	#12	#12	#12	1	3/4"	50	0.97%	
EF-12	120	1	Y	0.10	1.60						1.6	2.0	15	MMS			1	#12	#12	#12	1	3/4"	50	0.27%	
EDH-1-1	480	3	Y					130.0	156.6		156.6	195.7	200	200			1	#3/0	#3/0	#6	1	3"	320	1.43%	
CAR CHARGERS	208	1	Y		48.00						48.0	60.0	60	60			3R	#4	#4	#10	1	1-1/4"	150	2.15%	
EF-13	480	3	Y	2.00	3.40						3.4	4.3	15	30			3R	#12	#12	#12	1	3/4"	50	0.12%	

GENERAL NOTES:

(1) - PROVIDE DISC. SW. AT ALL PIECES OF EQUIPMENT NOT WITHIN SIGHT OF THE OVERCURRENT PROTECTIVE DEVICE.
(2) - FUSES SHOWN FOR REFERENCE ONLY, PROVIDE FUSES AS RECOMMENDED BY EQUIP. MANUF.
(3) - PROVIDE NEMA OUTDOOR RATED ENCLOSURES FOR ALL DISC. SWS MOUNTED OUTDOORS.
(4) - COORDINATE STARTER TYPE WITH MECHANICAL EQUIPMENT.
(5) - COORDINATE ALL OVERCURRENT PROTECTIVE DEVICES WITH THE ACTUAL EQUIPMENT BEING SUPPLIED. NOTIFY THE ENGINEER IF DESCREPINCIES ARE FOUND.
(6) - DISCONNECTS BETWEENS MOTORS AND VFC'S SHALL BE PROVIDED WITH AN AUXILARY CONTACT AND WIRED TO THE E-STOP OF THE VFD.

NOTES:

(a)

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NOT VALID WITHOUT
BUILDING PLANS
BLD-25-0517072
9/3/2025

City of Tampa
CONSTRUCTION SERVICES DIVISION
PLANS APPROVAL
BLD-25-0517072 9/3/2025
THIS SET OF PLANS MUST BE KEPT ON THE JOB AT ALL TIMES
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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:

PERMIT DOCUMENTS

ISSUE DATE:

09/09/2024

REVISIONS:

DRAWN BY: **SN**
CHECKED BY: **JLM**

TPD HOWARD AVENUE ANNEX BUILDING

ELECTRICAL DISTRIBUTION AND FEEDER SCHEDULE

TRUE PROJECT NORTH:

E-601

Switchboard: MDP

Location: ELECTRICAL ROOM 171 **Volts:** 480/277 Wye **A.I.C. Rating:** 65,000
Supply From: **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 1600 A
Enclosure: Type 1 **MCB Rating:** 1600 A

Notes:

CKT	Circuit Description	Load Classification	# of Poles	Frame Size	Trip Rating	Load (kVA)	Remarks
1	LDP TX	L; H; M; R; E; C	3	250 A	250 A	172.54	
2	PANEL H1	H; C	3	225 A	225 A	45.01	
3	PANEL H2	H; M; C	3	225 A	225 A	84.32	
4	PANEL H3	H; M; C	3	300 A	300 A	182.42	
5	CH-1	M	3	300 A	300 A	175.74	
6	CH-2	M	3	300 A	300 A	175.74	
7	EDH-1-1	H	3	200 A	200 A	130.15	
8							
9							
10	SURGE PROTECTION	--	3	30 A	30 A	0	
					Total Conn. Load:	965920 VA	
					Total Amps:	1162 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	235295 VA	100.00%	235295 VA		
Lighting	1000 VA	125.00%	1250 VA	**Total Conn. Load:**	965920 VA
Motor	415134 VA	125.00%	518918 VA	**Total Est. Demand:**	1077687 VA
Receptacle	86620 VA	55.77%	48310 VA	**Total Conn. Current:**	1162 A
Equipment	43700 VA	100.00%	43700 VA	**Total Est. Demand...**	1296 A
Continuous Load	184171 VA	125.00%	230214 VA		

Notes:

Branch Panel: H1

Location: ELECTRICAL ROOM 171 **Volts:** 480/277 Wye **A.I.C. Rating:** 42,000
Supply From: MDP **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 225 A
Enclosure: Type 1 **MCB Rating:** 225 A

Notes:

CKT	Circuit Description	Load	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load	Circuit Description	CKT
1					3.00			2.00			1	15 A	C	VAV-1-1-2-5	2
3	AHU-1-2	H	15 A	3		3.00			1.33						4
5							3.00			1.33	3	15 A	C	VAV-1-1-2-2	6
7	VAV-1-1-2-4	C	15 A	1	1.50			1.33							8
9	VAV-1-1-2-6	C	15 A	1		1.50			2.00						10
11							6.67			2.00	3	15 A	C	VAV-1-1-2-3	12
13	VAV-1-1-3-16	C	35 A	3	6.67			2.00							14
15						6.67			1.00		1	15 A	C	VAV-1-1-2-7	16
17															18
19															20
21															22
23															24
25															26
27															28
29															30
31															32
33															34
35															36
37															38
39															40
41															42
43															44
45															46
47															48
49															50
51															52
53															54
			Total Load:		16504 VA			15504 VA						13004 VA	
			Total...		61 A			57 A						47 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	9000 VA	100.00%	9000 VA		
Continuous Load	36011 VA	125.00%	45014 VA	**Total Conn. Load:**	45011 VA
				Total Est. Demand:	54014 VA
				Total Conn. Current:	54 A
				Total Est. Demand...	65 A

Notes:

Branch Panel: H2

Location: ELECTRICAL ROOM 105 **Volts:** 480/277 Wye **A.I.C. Rating:** 42,000
Supply From: MDP **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 225 A
Enclosure: Type 1 **MCB Rating:** 225 A

Notes:

CKT	Circuit Description	Load	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load	Circuit Description	CKT
1					1.5			3							2
3	VAV-1-1-1-4	C	15 A	3		1.5			3		3	15 A	H	AHU-1-1	4
5							1.5			3					6
7	VAV-1-1-1-2	C	15 A	1	1.5			1			1	15 A	C	VAV-1-1-1-1	8
9	VAV-1-1-1-6	C	15 A	1		1			1.5		1	15 A	C	VAV-1-1-1-5	10
11	VAV-1-1-2-1	C	15 A	1			3			2.5	1	15 A	C	VAV-1-1-1-3	12
13	VAV-1-1-3-14	C	15 A	1	3			4							14
15						4.33			4		3	20 A	C	VAV-1-1-3-10	16
17	VAV-1-1-3-13	C	20 A	3			4.33			4					18
19					4.33			6.67							20
21						2			6.67		3	35 A	C	VAV-1-1-3-15	22
23	VAV-1-1-3-11	C	15 A	3			2			6.67					24
25					2			2.11							26
27									2.11		3	15 A	M	EF-3	28
29										2.11					30
31															32
33															34
35															36
37															38
39															40
41															42
43															44
45															46
47															48
49															50
51															52
53															54
			Total Load:		29106 VA			26106 VA						29106 VA	
			Total...		107 A			94 A						107 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	9000 VA	100.00%	9000 VA		
Motor	6318 VA	125.00%	7898 VA	**Total Conn. Load:**	84318 VA
Continuous Load	69000 VA	125.00%	86250 VA	**Total Est. Demand:**	103148 VA
				Total Conn. Current:	101 A
				Total Est. Demand...	124 A

Notes:

Branch Panel: H3

Location: ELECTRICAL ROOM 151 **Volts:** 480/277 Wye **A.I.C. Rating:** 42,000
Supply From: MDP **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 400 A
Enclosure: Type 1 **MCB Rating:** 400 A

Notes:

CKT	Circuit Description	Lo...	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Lo...	Circuit Description	CKT
1					3.88			3.88							2
3	PCHW-1	M	20 A	3		3.88			3.88		3	20 A	M	PCHW-2	4
5							3.88			3.88					6
7					3.88			23.33							8
9	PCHW-3	M	20 A	3		3.88			23.33		3	110 A	H	DOAS-1-1	10
11							3.88			23.33					12
13	VAV-1-1-3-5	C	20 A	1	4.00			4.00			1	120 A	C	VAV-1-1-3-8	14
15	VAV-1-1-3-11	C	15 A	1		1.00			1.00		1	15 A	C	VAV-1-1-1-8	16
17	VAV-1-1-3-9	C	15 A	1			3.00			0.50	1	15 A	C	VAV-1-1-1-10	18
19	VAV-1-1-1-9	C	15 A	1	1.00			6.00							20
21	VAV-1-1-1-12	C	15 A	1		1.00			6.00		3	30 A	C	VAV-1-1-3-2	22
23	VAV-1-1-1-7	C	15 A	1			1.50			6.00					24
25					6.00			4.00			1	20 A	C	VAV-1-1-3-4	26
27	VAV-1-1-3-1	C	30 A	3		6.00			2.50		1	15 A	C	VAV-1-1-3-7	28
29							6.00								30
31					1.67			4.00			1	20 A	C	VAV-1-1-3-6	32
33	VAV-1-1-3-3	C	15 A	3		1.67			2.00						34
35							1.67			2.00	3	15 A	C	VAV-1-1-3-12	36
37					1.00			2.00							38
39	EF-13	H	15 A	3		1.00									40
41							1.00								42
43															44
45															46
47															48
49															50
51															52
53															54
			Total Load:		68640 VA			57140 VA						56640 VA	
			Total Amps:		248 A			207 A						204 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	73000 VA	100.00%	73000 VA		
Motor	34920 VA	125.00%	43650 VA	**Total Conn. Load:**	182420 VA
Continuous Load	74500 VA	125.00%	93125 VA	**Total Est. Demand:**	209775 VA
				Total Conn. Current:	219 A
				Total Est. Demand...	252 A

Notes:

Switchboard: LDP

Location: ELECTRICAL ROOM 171 **Volts:** 120/208V Wye **A.I.C. Rating:** 42,000
Supply From: LDP TX **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 500 A
Enclosure: Type 1 **MCB Rating:** 500 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	PANEL P1	3	225 A	225 A	47982 VA	
2	PANEL P2	3	225 A	225 A	68428 VA	
3	PANEL P3	3	225 A	225 A	56130 VA	
4						
5						
6	SURGE PROTECTION	3	30 A	30 A	0 VA	
				Total Conn. Load:	172540 VA	
				Total Amps:	479 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	14144 VA	100.00%	14144 VA		
Lighting	1000 VA	125.00%	1250 VA	**Total Conn. Load:**	172540 VA
Motor	22416 VA	125.00%	28020 VA	**Total Est. Demand:**	141249 VA
Receptacle	86620 VA	55.77%	48310 VA	**Total Conn. Current:**	479 A
Equipment	43700 VA	100.00%	43700 VA	**Total Est. Demand...**	392 A
Continuous Load	4660 VA	125.00%	5825 VA		

Notes:

Branch Panel: P1

Location: ELECTRICAL ROOM 171 **Volts:** 120/208V Wye **A.I.C. Rating:** 42,000
Supply From: LDP **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 225 A
Enclosure: Type 1 **MCB Rating:** 225 A

Notes:

NOTE	CKT	Circuit Description	Lo...	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Lo...	Circuit Description	CKT	NOTE
	1	CU-1-1-1 / DX-1-1-1	H	25 A	2	1.77			1.77			2	25 A	H	CU-1-1-3 / DX-1-1-3	2	
	3						1.77			1.77						4	
	5	STORAGE ROOM 172 RECS	R	20 A	1			0.90			0.72	1	20 A	R	STORAGE ROOM 172 & 173 RECS	6	
	7	MECH AND STORAGE ROOMS...	R	20 A	1	1.08			1.20			1	20 A	R	FRIDGE REC	8	1.
1.	9	FRIDGE REC	R	20 A	1		1.20			1.20		1	20 A	R	FRIDGE REC	10	1.
1.	11	FRIDGE REC	R	20 A	1			1.20			1.08	1	20 A	R	CORR / ELEC RM RECEPTACLE	12	
1.	13	FREEZER REC	R	20 A	1	1.20			1.08			1	20 A	R	RR RECEPTACLE	14	
	15	RECEPTACLE	R	20 A	1		1.08			1.26		1	20 A	R	RR RECEPTACLE	16	
	17	COPY SUPPLY/OFFICE RECS	R	20 A	1			1.08			1.08	1	20 A	R	RR RECEPTACLE	18	
	19	EWC	R	20 A	1	1.00			1.25			2	20 A	E	EWH-1	20	
	21	CP-1	R	20 A	1		1.50			1.25						22	
1.	23	FRIDGE REC	R	20 A	1			1.20			1.20	1	20 A	R	FRIDGE REC	24	1.
1.	25	FRIDGE REC	R	20 A	1	1.20			1.20			1	20 A	R	FRIDGE REC	26	1.
1.	27	FRIDGE REC	R	20 A	1		1.20			1.20		1	20 A	R	FRIDGE REC	28	1.
1.	29	FRIDGE REC	R	20 A	1			1.20			1.20	1	20 A	R	FRIDGE REC	30	1.
1.	31	FRIDGE REC	R	20 A	1	1.20			1.20			1	20 A	R	FRIDGE REC	32	1.
	33	EF-10	M	20 A	1		1.20			1.20		1	20 A	M	EF-2	34	
	35	SIGNAGE / FLAG POLES	L	20 A	1			1.00			1.25	1	20 A	M	AIR FILTERS	36	
	37	ACCESS CONTROL / CARD...	E	20 A	1	0.40			1.50			1	20 A	E	SPACESAVER SHELVING POWER	38	
	39	SPACESAVER SHELVING POWER	E	20 A	1		1.50			0.50		1	20 A	E	IRRIGATION CONTROL	40	
	41															42	
	43															44	
	45															46	
	47															48	
	49															50	
	51															52	
	53															54	
				Total Load:		17046 VA			17826 VA			13110 VA					
				Total Amps:		147 A			154 A			109 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	7072 VA	100.00%	7072 VA		
Lighting	1000 VA	125.00%	1250 VA	**Total Conn. Load:**	47982 VA
Motor	3650 VA	125.00%	4563 VA	**Total Est. Demand:**	39215 VA
Receptacle	29860 VA	66.74%	19930 VA	**Total Conn. Current:**	133 A
Equipment	6400 VA	100.00%	6400 VA	**Total Est. Demand...**	109 A

Notes:
1. PROVIDE GFCI BREAKER.

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APPROVED SITE REVIEW ONLY,
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BLD-25-0517072
9/3/2025

City of Tampa
CONSTRUCTION SERVICES DIVISION
PLANS APPROVAL
BLD-25-0517072 9/3/2025
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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:
PERMIT DOCUMENTS

ISSUE DATE:
09/09/2024

REVISIONS:

DRAWN BY: **SN**
CHECKED BY: **JLM**

TPD HOWARD AVENUE ANNEX BUILDING

ELECTRICAL PANEL SCHEDULES

TRUE PROJECT NORTH:

E-701

Branch Panel: P2

Location: ELECTRICAL ROOM 105 | **Volts:** 120/208V Wye | **A.I.C. Rating:** 42,000
Supply From: LDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1 | **MCB Rating:** 225 A

Notes:

NOTE	CKT	Circuit Description	Lo...	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Lo...	Circuit Description	CKT	NOTE
	1					1.77			1.08			1	20 A	R	TECHS WORK AREA DESK RECS	2	
	3	CU-1-1-2 / DX-1-1-2	H	25 A	2		1.77			1.08		1	20 A	R	TECHS WORK AREA DESK RECS	4	
	5	TECH WORK AREA 156 RECS	R	20 A	1			1.08			1.08	1	20 A	R	TECHS WORK AREA DESK RECS	6	
	7	RECEPTACLE - EXTERIOR COND.	R	20 A	1	0.72			0.36			1	20 A	R	STORAGE OFF RM 155 REC	8	
	9	RM 154 RECS	R	20 A	1		1.08			0.90		1	20 A	R	RM 101,102,103, 104 RECS	10	
	11	RM 104,109 RECS	R	20 A	1			1.26			1.08	1	20 A	R	RM 107, C100A, 100 RECS	12	
	13	RM 108, 107, 106 RECS	R	20 A	1	0.90			0.72			1	20 A	R	RM 112, 111, RECS	14	
	15	RM 110, 110A RECS	R	20 A	1		0.90			1.08		1	20 A	R	RM C101, 130,131,132,134 RECS	16	
	17	RM 128, 129 RECS	R	20 A	1			1.08			1.08	1	20 A	R	TECHS AREA DESK RECS	18	
	19	TECH AREA DESK RECS	R	20 A	1	1.08			1.08			1	20 A	R	TECHS AREA DESK RECS	20	
	21	TECH AREA DESK RECS	R	20 A	1		1.08			1.08		1	20 A	R	TECHS AREA DESK RECS	22	
	23	TECH AREA DESK RECS	R	20 A	1			1.08			1.44	1	20 A	R	TECHS AREA DESK RECS	24	
	25	SHIFT SUPER'S OFFICE RECS	R	20 A	1	1.08			0.72			1	20 A	R	RM 118 RECS	26	
	27	RM C102, 127, 128, 135	R	20 A	1		0.90			0.90		1	20 A	R	RM 119B, 119A RECS	28	
	29	RM 120, 119C RECS	R	20 A	1			1.08			1.08	1	20 A	R	RM 120, 121 RECS	30	
	31	119C ROLL UP DOOR	M	20 A	1	1.50			1.50			1	20 A	M	119C ROLL UP DOOR	32	
	33	ATLAS AUTO LIFT	M	30 A	1		2.88			2.88		1	30 A	M	ATLAS AUTO LIFT	34	
	35	120 ROLL UP DOOR	M	20 A	1			1.50			1.67					36	
	37	EWH-3	E	20 A	2	1.50			1.67			3	20 A	E	EWH-2	38	
	39						1.50			1.67						40	
	41	CU-1-1-4 / DX-1-1-4	H	25 A	2			1.77			1.50	1	20 A	R	BREAK RM DISHWASHER	42	1
	43					1.77			1.00			1	20 A	R	VENDING MACHINE	44	1
1	45	VENDING MACHINE	R	20 A	1		1.00			1.00		1	20 A	R	VENDING MACHINE	46	1
	47	EF-11 / EF-12	M	15 A	1			1.40			0.94	1	20 A	M	EF-5 / EF-6	48	
	49	EF-4	M	20 A	1	1.18			1.00			1	20 A	R	RECEPTACLE	50	
	51	SPACESAVER SHELVING POWER	E	20 A	1		1.50			1.50		1	20 A	E	SPACESAVER SHELVING POWER	52	
	53	SPACESAVER SHELVING POWER	E	20 A	1			1.50			1.50	1	20 A	E	ADA WHEELCHAIR LIFT	54	
				Total Load:		20619 VA			24695 VA			23115 VA					
				Total Amps:		172 A			209 A			196 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	7072 VA	100.00%	7072 VA		
Motor	13776 VA	125.00%	17220 VA	**Total Conn. Load:**	68428 VA
Receptacle	33580 VA	64.89%	21790 VA	**Total Est. Demand:**	60082 VA
Equipment	14000 VA	100.00%	14000 VA	**Total Conn. Current:**	190 A
				Total Est. Demand...	167 A

Notes:
1. PROVIDE GFCI BREAKER.

Branch Panel: P3

Location: ELECTRICAL ROOM 151 | **Volts:** 120/208V Wye | **A.I.C. Rating:** 42,000
Supply From: LDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1 | **MCB Rating:** 225 A

Notes:

CKT	Circuit Description	Lo...	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Lo...	Circuit Description	CKT
1	RM C100B, 150B , 152B RECS	R	20 A	1	1.08			1.08			1	20 A	R	RM 133, 140 RECS	2
3	RM 138A, 135, 138B RECS	R	20 A	1		1.26			1.08		1	20 A	R	RM 140 TABLE RECS	4
5	RM 139, 140 TABLE RECS	R	20 A	1			0.90			1.08	1	20 A	R	RM 139, 138B RECS	6
7	RM 136, 137, C102, C103 RECS	R	20 A	1	1.08			1.08			1	20 A	R	RM C103, 149A RECS	8
9	RM 149B, 149A	R	20 A	1		1.08			1.08		1	20 A	R	RM 152A, 153 RECS	10
11	RM 150 RECS	R	20 A	1			1.08			1.08	1	20 A	R	RM 149B, 150 RECS	12
13	RM 148 RECS	R	20 A	1	1.26			1.08			1	20 A	R	RM 147 RECS	14
15	RM 146 RECS	R	20 A	1		0.90			1.08		1	20 A	R	RM 143, 144, 145 & C104 RECS	16
17	RM 141,142, C104 RECS	R	20 A	1			1.08			0.72	1	20 A	R	RM 124, 123 RECS	18
19	RM 121 ROOL UP DOOR	M	20 A	1	1.50			1.50			1	20 A	M	RM 121 ROOL UP DOOR	20
21	RM 123 ROOL UP DOOR	M	20 A	1		1.50			1.50		2	20 A	E	TWH-1	22
23	TWH-1	E	20 A	2			1.50			1.50					24
25					1.50			1.50							26
27	TWH-1	E	20 A	2		1.50			1.50		2	20 A	E	TWH-1	28
29							1.50			0.24	1	15 A	M	EF-9	30
31	CHILLER YARD RECS	R	20 A	1	0.72			0.25			1	20 A	M	AIR FILTERS	32
33	ACCESS CONTROL	E	20 A	1		0.50			0.50		1	20 A	E	SECURITY CAMERAS	34
35	SPACESAVER SHELVING POWER	E	20 A	1			1.50			1.50	1	20 A	E	SPACESAVER SHELVING POWER	36
37	SPACESAVER SHELVING POWER	E	20 A	1	1.50			1.50			1	20 A	E	SPACESAVER SHELVING POWER	38
39	ELEC RM RECS	R	20 A	1		0.72			0.30		1	20 A	E	AIR SCIENCE SAFEFUME	40
41	DRYING CABS	R	20 A	1			1.08			0.50	1	20 A	R	CONFERENCE RM REFRIG	42
43	MOTORIZED/ PROJ SCREEN	E	20 A	1	1.00			1.92			1	20 A	C	EF-1	44
45						1.37			1.08		1	20 A	R	TELECOM RM RECS	46
47	EF-7	C	20 A	2			1.37			1.50	2	20 A	E	TWH-1	48
49								1.50							50
51															52
53															54
			Total Load:		21050 VA			16950 VA			18130 VA				
			Total Amps:		177 A			141 A			153 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	4990 VA	125.00%	6238 VA		
Receptacle	23180 VA	71.57%	16590 VA	**Total Conn. Load:**	56130 VA
Equipment	23300 VA	100.00%	23300 VA	**Total Est. Demand:**	51953 VA
Continuous Load	4660 VA	125.00%	5825 VA	**Total Conn. Current:**	156 A
				Total Est. Demand...	144 A

Notes:

Branch Panel: LEH

Location: ELECTRICAL ROOM 105 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 42,000
Supply From: | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Load	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load	Circuit Description	CKT
1	LIGHTING	L	20 A	1	3.76			2.4			1	20 A	L	LIGHTING	2
3	LIGHTING	L	20 A	1		3.06			3.21		1	20 A	L	LIGHTING	4
5	LIGHTING	L	20 A	1			1.81			1.56	1	20 A	L	LIGHTING	6
7	LIGHTING	L	20 A	1	1.86			2.51			1	20 A	L	LIGHTING	8
9	LIGHTING	L	20 A	1		2.09			1.89		1	20 A	L	LIGHTING	10
11	LIGHTING	L	20 A	1			1.01			2	1	20 A	M	ENTRANCE GATES JBOX	12
13	SITE LTG	L	20 A	1	3.07			2			1	20 A	M	ENTRANCE GATES JBOX	14
15	EXTERIOR LTG	L	20 A	1		0.95									16
17															18
19															20
21															22
23															24
25															26
27															28
29															30
31															32
33															34
35															36
37															38
39															40
41															42
43															44
45															46
47															48
49					0.5			0							50
51	LEH-TX	E	30 A	3		0			0		3	30 A	--	SURGE PROTECTION	52
53							0			0					54
			Total Load:		16094 VA			11211 VA			6390 VA				
			Total...		61 A			43 A			23 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	19235 VA	125.00%	24044 VA		
Motor	4000 VA	125.00%	5000 VA	**Total Conn. Load:**	33695 VA
Other	351 VA	100.00%	351 VA	**Total Est. Demand:**	39504 VA
Power	9609 VA	100.00%	9609 VA	**Total Conn. Current:**	41 A
Equipment	500 VA	100.00%	500 VA	**Total Est. Demand...**	48 A

Notes:

Branch Panel: LEL

Location: ELECTRICAL ROOM 105 | **Volts:** 120/208V Wye | **A.I.C. Rating:** 42,000
Supply From: LEH-TX | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 100 A

Notes:

CKT	Circuit Description	Lo...	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Lo...	Circuit Description	CKT
1	FACP	E	20 A	1	0.50										2
3															4
5															6
7															8
9															10
11															12
13															14
15															16
17															18
19															20
21															22
23															24
25															26
27															28
29															30
31															32
33															34
35															36
37															38
39															40
41															42
43															44
45															46
47															48
49															50
51															52
53															54
		Total Load:			500 VA			0 VA			0 VA				
		Total Amps:			4 A			0 A			0 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	500 VA	100.00%	500 VA		
				Total Conn. Load:	500 VA
				Total Est. Demand:	500 VA
				Total Conn. Current:	1 A
				Total Est. Demand...	1 A

Notes:

Branch Panel: CC

Location: | **Volts:** 120/208V Wye | **A.I.C. Rating:** 42,000
Supply From: | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 350 A
Enclosure: Type 1 | **MCB Rating:** 350 A

Notes:

NOTE	CKT	Circuit Description	Lo...	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Lo...	Circuit Description	CKT	NOTE
	1	CAR CHARGING STATIONS	C	60 A	2	4.99			4.99			2	60 A	C	CAR CHARGING STATIONS	2	
	3						4.99			4.99						4	
	5	CAR CHARGING STATIONS	C	60 A	2			4.99			4.99	2	60 A	C	CAR CHARGING STATIONS	6	
	7					4.99			4.99							8	
	9															10	
	11															12	
	13															14	
	15															16	
	17															18	
	19															20	
	21															22	
	23															24	
	25															26	
	27															28	
	29															30	
	31															32	
	33															34	
	35															36	
	37															38	
	39															40	
	41															42	
			Total Load:			19968 VA			9984 VA			9984 VA					
			Total Amps:			166 A			83 A			83 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Continuous Load	39936 VA	125.00%	49920 VA		
				Total Conn. Load:	39936 VA
				Total Est. Demand:	49920 VA
				Total Conn. Current:	111 A
				Total Est. Demand...	139 A

Notes:

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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:
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ISSUE DATE:
09/09/2024

REVISIONS:

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CHECKED BY: **JLM**

TPD HOWARD AVENUE ANNEX BUILDING

ELECTRICAL PANEL SCHEDULES

TRUE PROJECT NORTH:

E-702

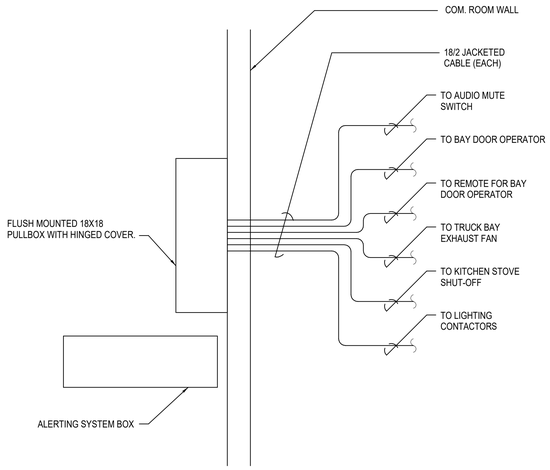
SEQUENCE OF OPERATION:
UPON RECEIPT OF AN ALARM FROM DISPATCH (RADIO CALL), ALERTING SYSTEM SHALL:

A. TRANSMIT TONE AND VOICE TO ALL SPEAKERS IN STATION.
B. SEND SIGNAL TO STOVE TO TURN OFF. RESET BUTTON ALLOWS CREW THAT REMAIN TO RESTART STOVE.
C. SEND SIGNAL TO WALL SCONCES THROUGHOUT STATIONS AND APPARATUS BAY LIGHTING TO TURN LIGHTS ON. A TIMER TURNS ALL LIGHTS OFF.
D. SEND SIGNAL TO EXHAUST SYSTEM IN APPARATUS BAY TO TURN ON. A TIMER TURNS EXHAUST FAN OFF.

ACTIVATION OF DOORBELL BUTTON, ALERTING SYSTEM BOX SHALL:

A. SEND SIGNAL TO ALL SPEAKERS.

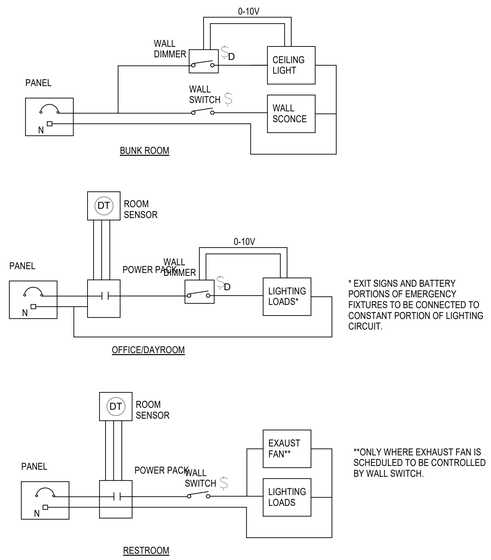
NOTE: ALERTING SYSTEM BOX HOUSES IT'S OWN AMPLIFIER FOR ALL SPEAKERS. ALL RELAYS SHALL BE LOCATED IN SYSTEMS ROOM FOR ALERTING SYSTEM BOX.



ALERTING SYSTEM TERMINATION PULL BOX DETAIL

No Scale

1



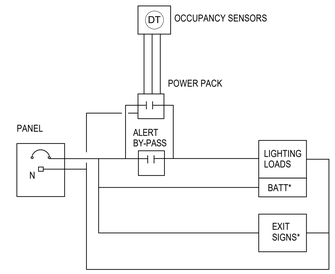
* EXIT SIGNS AND BATTERY PORTIONS OF EMERGENCY FIXTURES TO BE CONNECTED TO CONSTANT PORTION OF LIGHTING CIRCUIT.

**ONLY WHERE EXHAUST FAN IS SCHEDULED TO BE CONTROLLED BY WALL SWITCH.

TYPICAL ROOM LIGHTING CONTROL DETAILS

No Scale

2

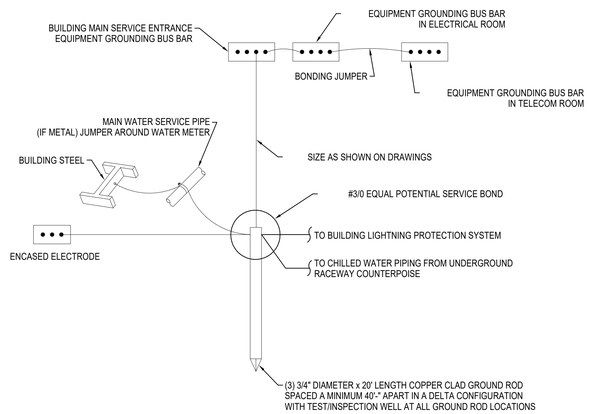


* EXIT SIGNS AND BATTERY PORTIONS OF EMERGENCY FIXTURES TO BE CONNECTED TO CONSTANT PORTION OF LIGHTING CIRCUIT.

TYPICAL CORRIDOR LIGHTING CONTROL DETAIL

No Scale

3



DETAIL NOTE:

SERVICE GROUND PER N.E.C. AND SPECIFICATIONS.
ALL CONNECTIONS TO GROUND RODS AND BUILDING STEEL SHALL BE EXOTHERMIC TYPE. ALL OTHERS SHALL BE TORQUE BOLTED.

GROUNDING ELECTRODE OVERVIEW

No Scale

5

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9/3/2025

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ISSUE DATE:
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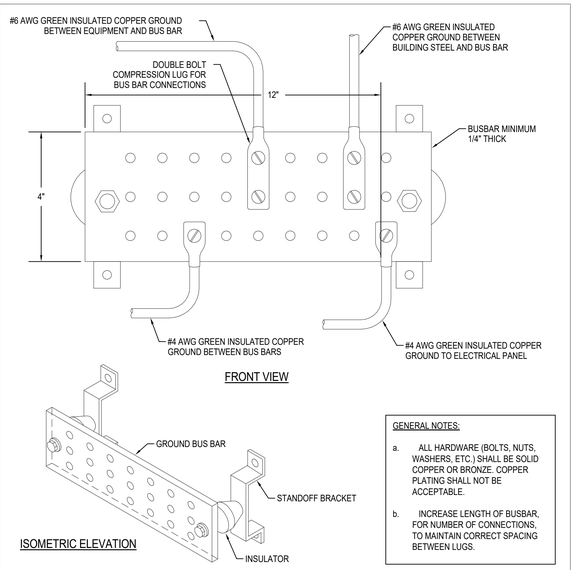
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TPD HOWARD AVENUE ANNEX BUILDING

ELECTRICAL DETAILS

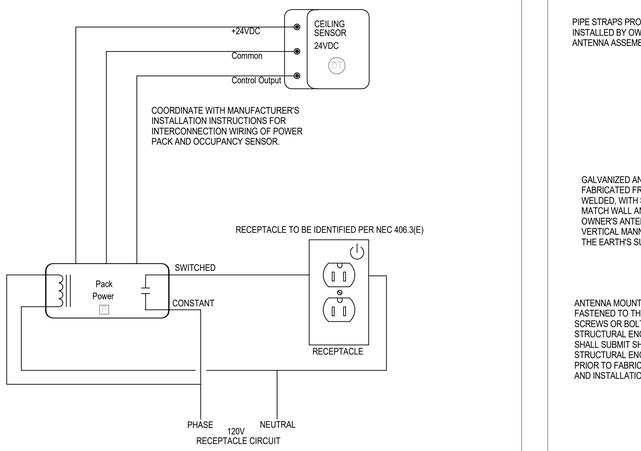
TRUE PROJECT NORTH:

E-801



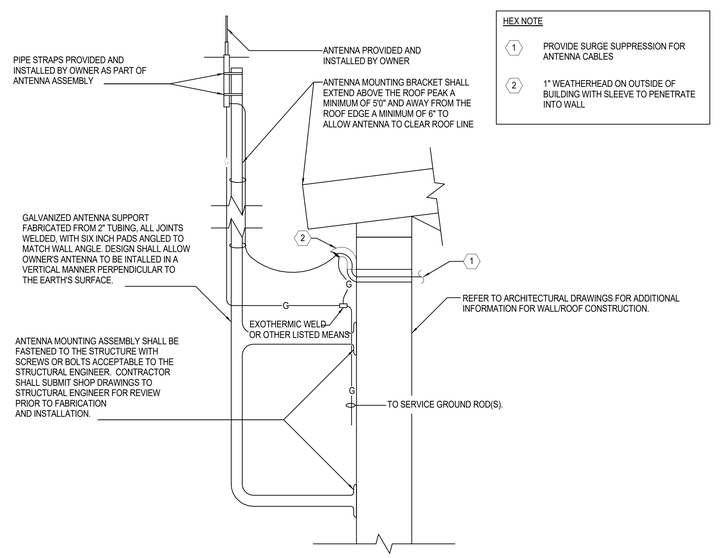
GROUND BUSBAR
No Scale

1



RECEPTACLE CONTROL DETAIL
No Scale

2



ANTENNA MOUNTING BRACKET
No Scale

3

WARNING

ARC FLASH AND SHOCK HAZARD
APPROPRIATE PPE REQUIRED

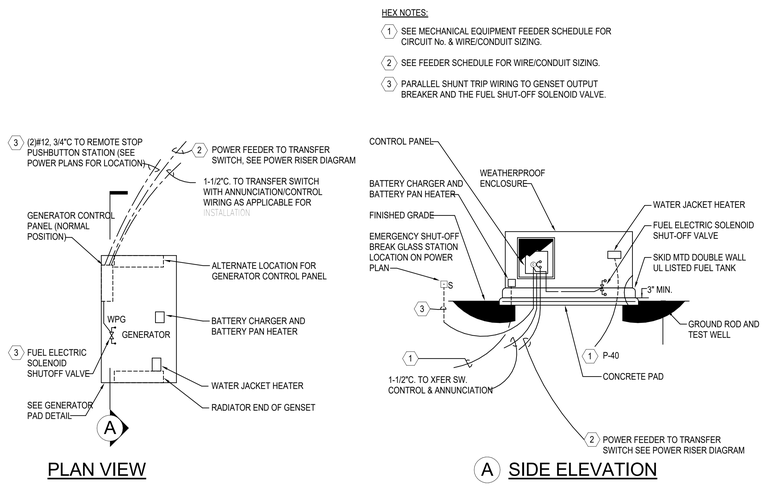
NOTES

PROVIDE/INSTALL SIGN ON ALL EQUIPMENT PER ANSI, NEC, AND OSHA.

ANSI Z535.4-1998, PRODUCT SAFETY SIGNS AND LABELS, PROVIDES GUIDELINES FOR THE DESIGN OF SAFETY SIGNS AND LABELS FOR APPLICATION TO PRODUCTS.

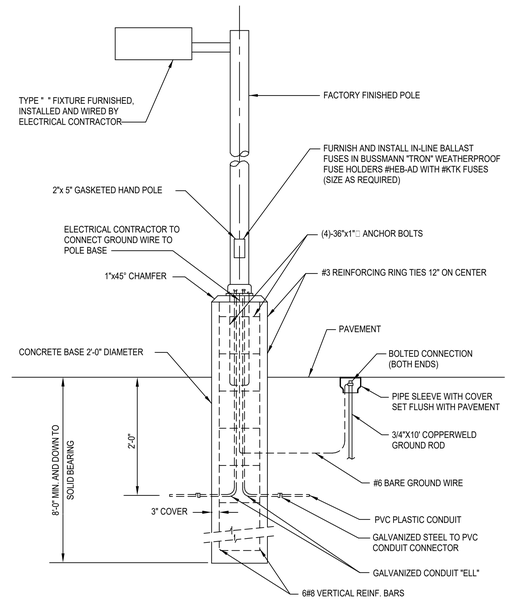
ARC FLASH AND SHOCK HAZARD SIGN
No Scale

4



EMERGENCY GENERATOR WIRING DETAIL
No Scale

5



FIXTURE TYPE " " DETAIL

SINGLE POLE SHOEBOX TYPE FIXTURE DETAIL
No Scale

6

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9/3/2025

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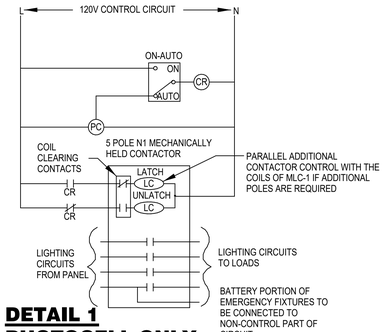
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TPD HOWARD AVENUE ANNEX BUILDING

ELECTRICAL DETAILS

TRUE PROJECT NORTH:

E-802



DETAIL 1
PHOTOCELL ONLY- EXTERIOR LIGHTING CONTROL

☒ MX1(NL)

SCALE: NTS

(PC) 120V SPST SPECIFICATION GRADE PHOTOELECTRIC CONTROL. TORK 2101 OR EQUAL. LOCATE ON ROOF ABOVE ELECTRICAL ROOM.

(CR) DPDT RELAY WITH 120V COIL AND 10A RATED CONTACTS. SQUARE D #8501KP12V20 WITH 8501NR51B OR EQUAL. LOCATE NEXT TO CONTACTOR.

[ON-A] HEAVY DUTY OILTIGHT/WATERTIGHT SELECTOR SWITCH-30MM ASSEMBLED CONTROL STATION IN TYPE 4 ENCLOSURE W/LEGEND. SQUARE D CLASS 9001 KYK110 OR EQUAL. LOCATE NEXT TO CONTACTOR.

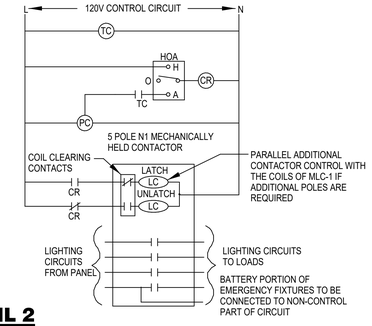
(LC) 4P MECHANICALLY HELD LIGHTING CONTACTOR WITH 120V COIL. CONTACTS TO BE RATED 20A CONTINUOUS FOR TUNGSTEN AND BALLAST LIGHTING. PROVIDE QUANTITY OF CONTACORS FOR EACH CIRCUIT REQUIRED PLUS 2 CONTACTS SPARE. SQUARE D CLASS 8903 SMG13V02. LOCATE IN ELECTRICAL ROOM AS CLOSE TO PANEL FEEDING CONTROLLED CIRCUITS.

DETAIL 1 NOTES:

A. PROVIDE APPROPRIATE UL LISTED ASSEMBLY IF MORE THAN ONE DEVICE IS INSTALLED IN AN ENCLOSURE.

B. PROVIDE ADDITIONAL CONTACTORS AS REQUIRED.

C. PROVIDE 2 POLE CONTACTORS FOR 208 VOLT CIRCUITS.



DETAIL 2
PHOTOCELL ON-TIME CLOCK OFF EXTERIOR LIGHTING CONTROL

☒ MX2

SCALE: NTS

(TC) 120V DPST TIME CLOCK. 24 HOUR WITH SKIP-A-DAY DEVICE AND SPRING RESERVE POWER. TORK 7200L OR EQUAL.

(PC) 120V SPST SPECIFICATION GRADE PHOTOELECTRIC CONTROL. TORK 2101 OR EQUAL. LOCATE ON ROOF ABOVE ELECTRICAL ROOM.

(CR) DPDT RELAY WITH 120V COIL AND 10A RATED CONTACTS. SQUARE D #8501KP12V20 WITH 8501NR51B OR EQUAL. LOCATE NEXT TO CONTACTOR.

[HOA] HEAVY DUTY OILTIGHT/WATERTIGHT SELECTOR SWITCH-30MM ASSEMBLED CONTROL STATION IN TYPE 4 ENCLOSURE W/LEGEND. SQUARE D CLASS 9001 KYK111 OR EQUAL. LOCATE NEXT TO CONTACTOR.

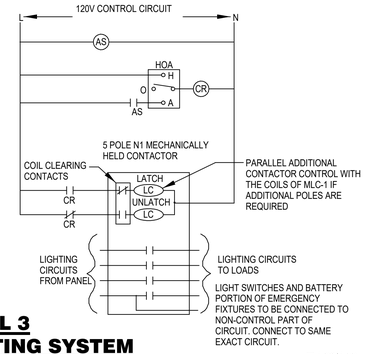
(LC) 4P MECHANICALLY HELD LIGHTING CONTACTOR WITH 120V COIL. CONTACTS TO BE RATED 20A CONTINUOUS FOR TUNGSTEN AND BALLAST LIGHTING. SQUARE D CLASS 8903 SMG13V02. LOCATE IN ELECTRICAL ROOM AS CLOSE TO PANEL FEEDING CONTROLLED CIRCUITS.

DETAIL 2 NOTES:

A. PROVIDE APPROPRIATE UL LISTED ASSEMBLY IF MORE THAN ONE DEVICE IS INSTALLED IN AN ENCLOSURE.

B. PROVIDE ADDITIONAL CONTACTORS AS REQUIRED.

C. PROVIDE 2 POLE CONTACTORS FOR 208 VOLT CIRCUITS.



☒ MX3&MX4

DETAIL 3
ALERTING SYSTEM LIGHTING CONTROL

SCALE: NTS

(AS) ALERTING SYSTEM CONTROL CONTACTS FOR LIGHTING. COORDINATE WITH ALERTING SYSTEM CONTROLLER.

(CR) DPDT RELAY WITH 120V COIL AND 10A RATED CONTACTS. SQUARE D #8501KP12V20 WITH 8501NR51B OR EQUAL. LOCATE NEXT TO CONTACTOR.

[HOA] HEAVY DUTY OILTIGHT/WATERTIGHT SELECTOR SWITCH-30MM ASSEMBLED CONTROL STATION IN TYPE 4 ENCLOSURE W/LEGEND. SQUARE D CLASS 9001 KYK111 OR EQUAL. LOCATE NEXT TO CONTACTOR.

(LC) 4P MECHANICALLY HELD LIGHTING CONTACTOR WITH 120V COIL. CONTACTS TO BE RATED 20A CONTINUOUS FOR TUNGSTEN AND BALLAST LIGHTING. SQUARE D CLASS 8903 SMG13V02. LOCATE IN ELECTRICAL ROOM AS CLOSE TO PANEL FEEDING CONTROLLED CIRCUITS.

DETAIL 3 NOTES:

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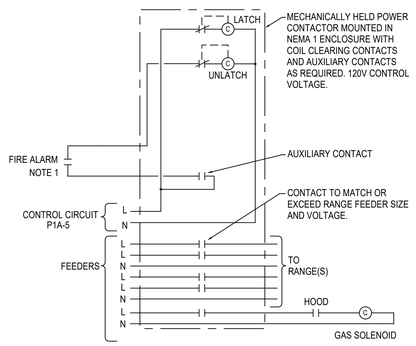
B. PROVIDE ADDITIONAL CONTACTORS AS REQUIRED.

C. PROVIDE 2 POLE CONTACTORS FOR 208 VOLT CIRCUITS.

PHOTOCELL ONLY LIGHTING CONTROL DETAIL — 1
No Scale

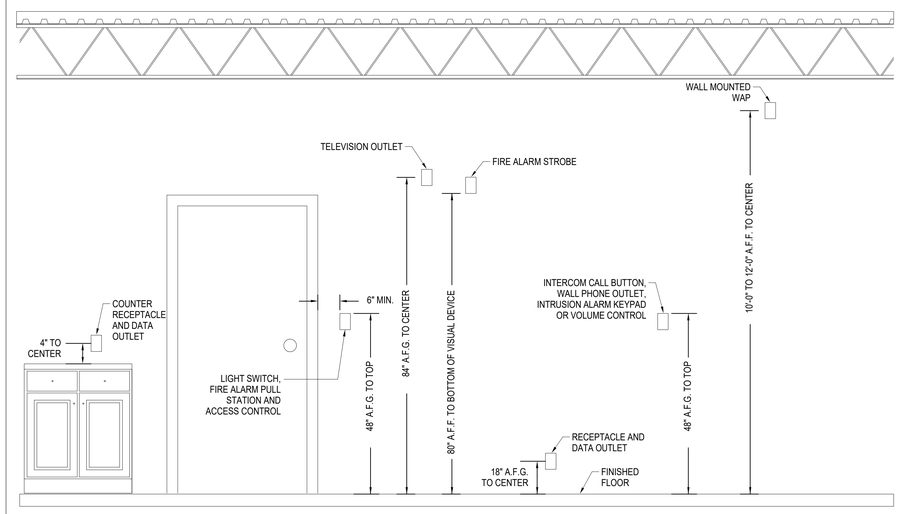
PHOTCELL TIMECLOCK LIGHTING CONTROL DETAIL — 2
No Scale

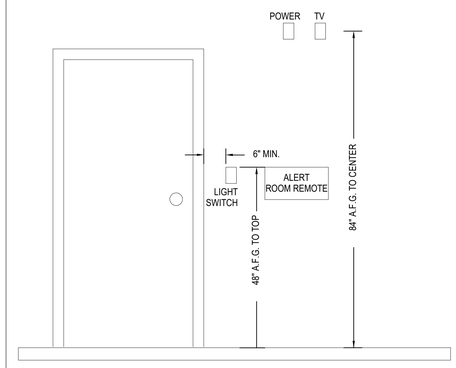
ALERTING SYSTEM CONTROLLED LIGHTING DETAIL — 3



NOTE:

1) FIRE ALARM CONTROL MODULE TO DEENERGIZE EQUIPMENT AND GAS SHUTOFF.
2) PROVIDE 2 POLE CONTACTORS FOR 208 VOLT CIRCUITS.





SHUT-OFF WIRING DIAGRAM FOR FEEDERS — 4
No Scale

TYPICAL DEVICE MOUNTING HEIGHTS — 5
No Scale

BUNK ROOM WALL DETAIL — 6
No Scale

CITY OF TAMPA
APPROVED SITE REVIEW ONLY, NOT VALID WITHOUT BUILDING PLANS
BLD-25-0517072
9/3/2025

City of Tampa
CONSTRUCTION SERVICES DIVISION
PLANS APPROVAL
BLD-25-0517072 9/3/2025
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REVIEWED FOR CODE COMPLIANCE

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Winter Park, Florida 32789

HOWARD+ASSOCIATES
ARCHITECTS, P.A.
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Tampa, FL 33629 • 813.872.8888

SGM ENGINEERING
935 LAKE BALDWIN LANE
ORLANDO, FL 32814
TEL: 407-767-5186
FAX: 407-767-5772
CA-00006208
SGM #: 2023-335
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Date: 2024.11.22 08:38:48-05'00'

JUSTIN L MUNDELL FL-70700

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ADG PROJECT NO. 1087

C.o.T. NO. 24-C-00032

PROJECT STATUS:
PERMIT DOCUMENTS

ISSUE DATE:
09/09/2024

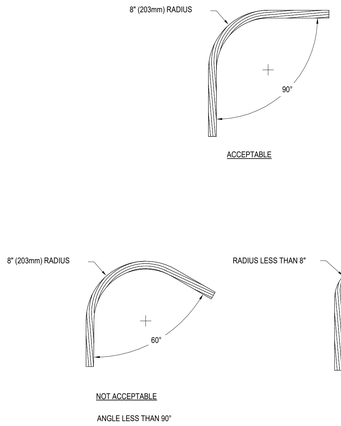
REVISIONS:

DRAWN BY: SN
CHECKED BY: JLM

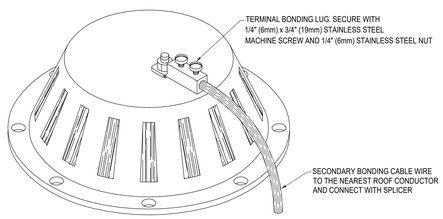
TPD HOWARD AVENUE ANNEX BUILDING
ELECTRICAL DETAILS

TRUE PROJECT NORTH:

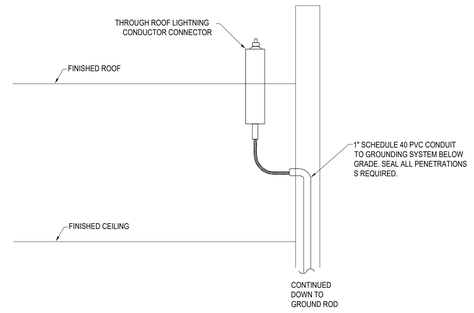
E-803



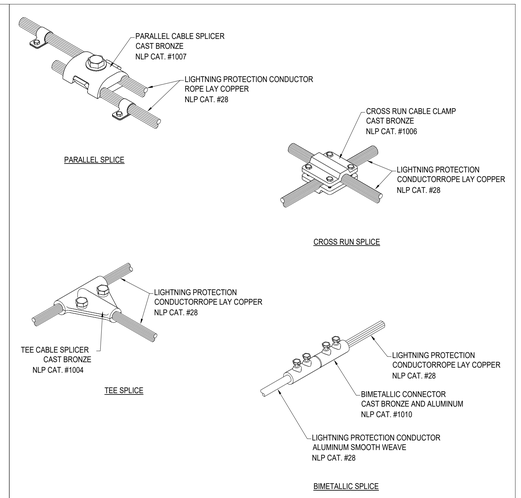
LIGHTNING CONDUCTOR ACCEPTABLE BEND RADIUS
No Scale



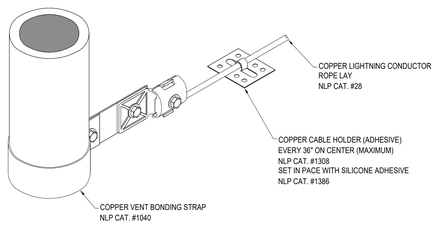
ROOF DRAIN CONDUCTOR BOND
No Scale



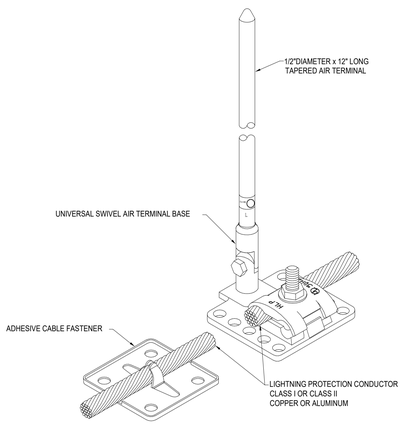
ROOF PENETRATION CONDUCTOR CONNECTION
No Scale



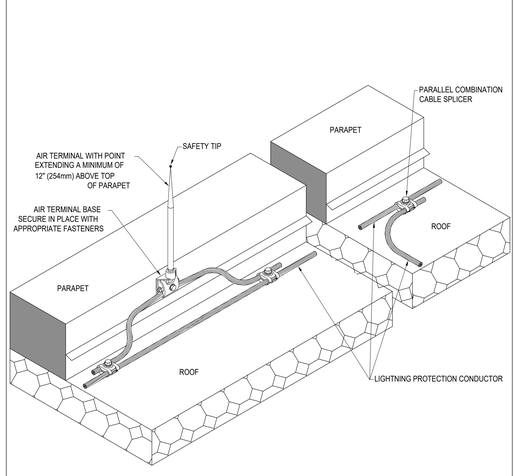
CONDUCTOR SPLICING METHODS
No Scale



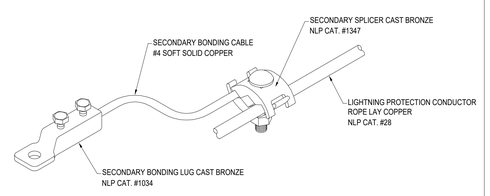
VENT BOND STRAP
No Scale



SWIVEL AIR TERMINAL MOUNTING
No Scale



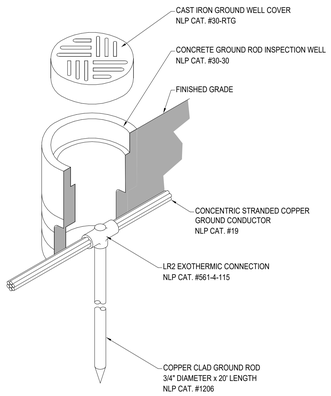
PARAPET AIR TERMINAL
No Scale



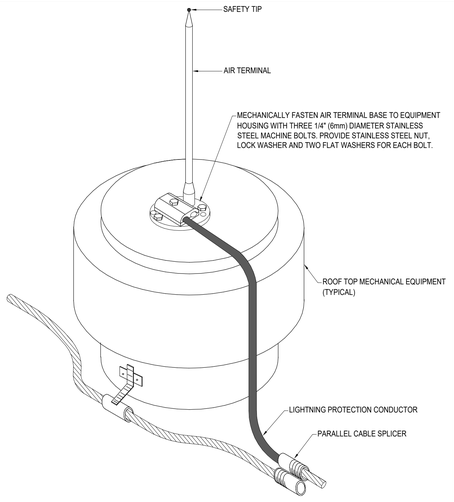
SECONDARY BONDING CONDUCTOR AND LUG
No Scale



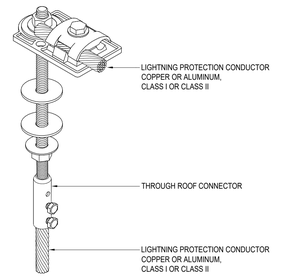
GROUND ROD WITH EXOTHERMIC WELD
No Scale



GROUND ROD INSPECTION WELL
No Scale



ROOF EQUIPMENT AIR TERMINAL
No Scale



DETAIL NOTE:

COMPONENTS INCLUDE 1/2" DIAMETER THREADED BARS, NEOPRENE SEALING WASHERS AND STAINLESS STEEL JAM NUTS TO ASSURE A WATERTIGHT INSTALLATION.

STANDING SEAM ROOF PENETRATION CONNECTOR
No Scale

CITY OF TAMPA
APPROVED SITE REVIEW ONLY,
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ALL REVIEWS AND
PLN-25-0517072
9/3/2025

1 / E-804 — 12" = 1'-0"

LIGHTNING PROTECTION DETAILS

City of Tampa
CONSTRUCTION SERVICES DIVISION
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BLD-25-0517072 9/3/2025
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E=SGM ENGINEERING INC, C=US
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STATE OF FLORIDA — PROFESSIONAL ENGINEER

JUSTIN L MUNDELL FL-70700

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REVISIONS:

DRAWN BY: **SN**

CHECKED BY: **JLM**

TPD HOWARD AVENUE ANNEX BUILDING

ELECTRICAL DETAILS

TRUE PROJECT NORTH:

E-804

SD750 | 33.9L | 750 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

Standby Power Rating
750 kW, 938 kVA, 60 Hz

Prime Power Rating*
675 kW, 844 kVA, 60 Hz

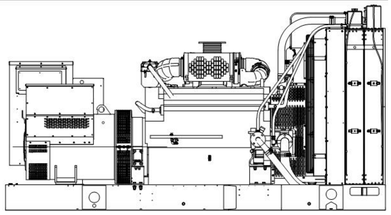


Image used for illustration purposes only

*EPA Certified Prime ratings are not available in the US or its Territories

Codes and Standards

Not all codes and standards apply to all configurations. Contact factory for details.

- UL2200, UL6200, UL1236, UL489, UL142
- CSA C22.2, ULC S601
- BS5514 and DIN 6271
- SAE J1349
- NFPA 37, 70, 99, 110
- NEC700, 701, 702, 708
- ISO 3046, 7637, 8528, 9001
- NEMA ICS10, MG1, 250, ICS6, AB1
- ANSI C62.41

Powering Ahead

For over 60 years, Generac has provided innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

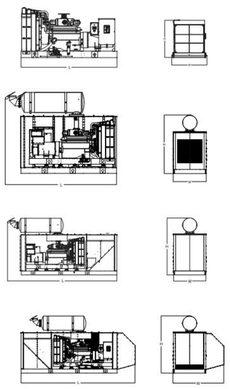
SPEC SHEET

SD750 | 33.9L | 750 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

DIMENSIONS AND WEIGHTS*



OPEN SET

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	-	177.7 (4,515) x 82.6 (2,099) x 94.0 (2,389)	22,496 (10,204)
12	800 (3,029)	201.0 (5,105) x 96.0 (2,438) x 118.2 (3,002)	26,446 (11,996)
24	1,600 (6,058)	201.0 (5,105) x 96.0 (2,438) x 131.2 (3,332)	27,822 (12,620)

WEATHER PROTECTED ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	235.0 (5,969) x 98.0 (2,489) x 170.3 (4,326)		
12	800 (3,029)	235.0 (5,969) x 98.0 (2,489) x 187.3 (4,758)	5,553 (2,519)	4,394 (1,994)
24	1,600 (6,058)	235.0 (5,969) x 98.0 (2,489) x 200.3 (5,088)		

LEVEL 1 SOUND ATTENUATED ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank		Contact Factory		
12	800 (3,029)	Contact Factory	8,958 (4,064)	7,799 (3,538)
24	1,600 (6,058)	Contact Factory		

LEVEL 2 SOUND ATTENUATED ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	339.9 (8,633) x 150.0 (3,810) x 169.3 (4,299)		
12	800 (3,029)	340.0 (8,636) x 150.0 (3,810) x 169.2 (4,298)	10,137 (4,599)	6,853 (3,109)
24	1,600 (6,058)	340.0 (8,636) x 150.0 (3,810) x 178.2 (4,526)		

* All measurements are approximate and for estimation purposes only.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.

SPEC SHEET

Generac Power Systems, Inc. | P.O.Box 8 | Waukesha, WI 53189
P: (262) 544-4811 ©2021 Generac Power Systems, Inc. All rights reserved. All specifications are subject to change without notice.
Part No. 0L1425
Rev. D 06/04/2021

GENERAC | INDUSTRIAL POWER

POWER ZONE® CONTROL PLATFORM
Power Zone® Pro Sync Controller



Features

The Generac Power Zone® Digital Control Platform is a fully integrated and multipurpose family of controllers for Generac's single and Modular Power Systems (MPS).

Standard Single Unit Control Features*
- Engine Protective Functions
- Alternator Protective Functions
- Digital Engine Governor Control
- Digital Voltage Regulator
- 7" Color Touch Screen
- Multi-Lingual
- Multiple Programmable Inputs and Outputs
- Remote Display Capability
- Remote Communication via Modbus® RTU, Modbus TCP/IP, Ethernet 10/100, SNMP
- Alarm and Event Logging with Real Time Stamping
- Expandable Analog and Digital Inputs and Outputs
- Wireless Software Update via Remote Computer
- BMS and Remote Telemetry
- USB Port for Easy Log Data Downloads and Firmware Updates
- Analog Input Bias for Speed and Voltage◊
- E-mail Notifications for Alarm Conditions and Log Data†

Additional Standard Parallel Control Features**
- Paralleling Control (Synchronizing)
- Reverse Power
- Loss of Synchronization Between Gensets
- Load and VAR Sharing

Standard System Control Features
- Built-In PLC Logic Eliminates the Need for External Controllers Under Most Conditions
- Ethernet Based Communications Between Gensets
- Programmable I/O Channel Properties
- Built-In Diagnostics

Customer Ports
- 1 - RS-485 - Modbus RTU (Main Controller)
- 1 - RJ45 - Remote Annunciator Panel/Remote Relay Panel (Main Controller)
- 1 - CANBus - Power Zone® Accessories (Main Controller)
- 1 - RJ45 - Modbus TCP/IP or Ethernet 10/100 (Display)
- 2 - Type A USB (Display)

PLC (Built-In Programmable Logic Controller)
- Boolean Logic Programming (Ladder)
- 16 Timers
- 16 Counters
- Counter Reset
- Configurable Through Software Tool

Protections
- Low Oil Pressure
- Low Coolant Level
- High/Low Coolant Temperature
- Sender Failure
- Oil Temperature
- Over/Under Speed
- Over/Under Voltage
- Over/Under Frequency
- Over/Under Current
- Over Load
- Battery Voltage
- Battery Charger Current
- Phase to Phase and Phase to Neutral Short Circuits (FT Algorithm)

* For SG and SD Models
** For MG and MD Models
† Requires Use of a Network Accessible Authenticated or Open SMTP Server

Part No. A0002366454
Rev. B 01/24/23

GENERATOR CONTROLS

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BLD-25-0517072
9/3/2025

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JUSTIN L MUNDELL FL-70700

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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:
PERMIT DOCUMENTS

ISSUE DATE:
09/09/2024

REVISIONS:

DRAWN BY: **SN**
CHECKED BY: **JLM**

TPD HOWARD AVENUE ANNEX BUILDING

ELECTRICAL DETAILS

TRUE PROJECT NORTH:

E-805

GENERAL NOTES:

a. EXACT LOCATION OF UNDERGROUND FEEDERS ARE TO BE VERIFIED PRIOR TO BEGINNING OF WORK.

b. UNLESS OTHERWISE NOTED, WHERE EXISTING CONDUITS AND CONDUCTORS ARE NOTED TO BE REMOVED, THEY ARE TO BE REMOVED IN THEIR ENTIRETY BACK TO THE POINT OF ORIGIN.

c. ALL DEMOLISHED EQUIPMENT AND FIXTURES NOTED TO BE SALVAGED SHALL BE DELIVERED TO OWNER. TRANSPORT ITEMS TO OWNER'S DESIGNATED STORAGE AREA WITHIN 25 MILES OF THE SITE. SHOULD THE OWNER DECIDE NOT TO RECEIVE THESE ITEMS, THE CONTRACTOR WILL REMOVE FROM THE SITE AND DISPOSE IN A LEGAL MANNER TO AN E.P.A. APPROVED LANDFILL. COMPLY WITH ALL NATIONAL, LOCAL AND STATE REQUIREMENTS WITH REGARD TO HAZARDOUS MATERIALS REMOVAL, HANDLING AND DISPOSAL.

d. REMOVE ALL CONDUIT AND WIRE, FROM REMOVED ITEMS, BACK TO THE SOURCE UNLESS IT IS TO BE RE-USED FOR NEW WORK.

e. MAINTAIN CIRCUITS TO EXISTING ITEMS THAT ARE NOT BEING REMOVED SO THAT THEY WILL REMAIN COMPLETELY FUNCTIONAL DURING CONSTRUCTION AND AT THE COMPLETION OF CONSTRUCTION.

f. VISIT THE EXISTING FACILITY AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.

g. COORDINATE WITH THE OWNER AND OWNER'S REPRESENTATIVE ANY POWER OUTAGES THAT MAY AFFECT THE OWNER IN ANY MANNER. 72 HOUR PRIOR NOTICE SHOULD BE GIVEN TO THE OWNER FOR ALL COORDINATED OUTAGES.

h. ALL EXISTING ITEMS ARE SHOWN FOR REFERENCE ONLY UNLESS OTHERWISE NOTED.

i. DURING THE TIMES THAT THE FIRE ALARM SYSTEM WILL BE RENDERED NON-FUNCTIONAL IN ANY MANNER, AN APPROVED/CERTIFIED FIRE WATCH SHALL BE PROVIDED IN ACCORDANCE WITH ANY REQUIREMENTS OF THE FIRE MARSHALL. THIS MUST BE BE MAINTAINED AT ALL TIMES ANY PART OF THE BUILDING IS OCCUPIED. COORDINATE ALL REQUIREMENTS WITH THE LOCAL FIRE MARSHALL PRIOR TO BIDDING THE PROJECT AND PRIOR TO ANY WORK BEGINNING.

j. THE EMERGENCY LIGHTING IN ALL OCCUPIED PORTIONS OF THE BUILDING INCLUDING THE EGRESS PATH FOR THOSE OCCUPANTS SHALL BE MAINTAINED IN OPERATING CONDITION AT ALL TIMES THROUGHOUT THE CONSTRUCTION.

k. NOTIFY THE CONSTRUCTION MANAGER SEVEN (7) DAYS PRIOR TO THE START OF ANY DEMOLITION WORK. NOTIFICATION SHALL INCLUDE A GENERAL LIST OF SERVICES AFFECTED AND A SCHEDULE OF WORK TO BE PERFORMED.

l. DESIGN IS BASED ON INFORMATION COMPILED FROM SITE VISITS AND AS BUILT DRAWINGS. CONTRACTOR TO VERIFY EXACT SITE CONDITIONS BEFORE WORK AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

m. MAINTAIN CONTINUITY IN ALL EXISTING CIRCUITRY TO REMAIN WHICH IS AFFECTED BY THE SCOPE OF WORK. CONTRACTOR TO FURNISH AND INSTALL ALL NECESSARY WIRES, CONDUITS AND JUNCTION BOXES REQUIRED TO KEEP CONTINUITY FOR EXISTING DEVICES AND CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED CONDUITS, WIRES, AND BOXES TO ENERGIZE NEW EQUIPMENT INDICATED.

n. IF CIRCUITS ARE COMBINED AND RUN AS MULTI-WIRE BRANCH CIRCUITS SHARING A COMMON NEUTRAL, THEN EACH UNGROUNDED CONDUCTOR MUST BE DISCONNECTED SIMULTANEOUSLY BY A COMMON TRIP CIRCUIT BREAKER. CONTRACTOR MAY, AT THEIR OPTION, PROVIDE EITHER COMMON TRIP MULTI-POLE CIRCUIT BREAKERS OR UTILIZE MANUFACTURERS LISTED HANDLE TIES IN ORDER TO PROVIDE THE SIMULTANEOUS TRIP. THESE DEVICES ARE NOT SHOWN IN THE PANEL SCHEDULES AND MUST BE PROVIDED BY THIS SCOPE OF WORK. NO MORE THAN 3 CIRCUITS MAY BE COMBINED IN A SINGLE RACEWAY WITHOUT PRIOR APPROVAL BY THE ENGINEER.

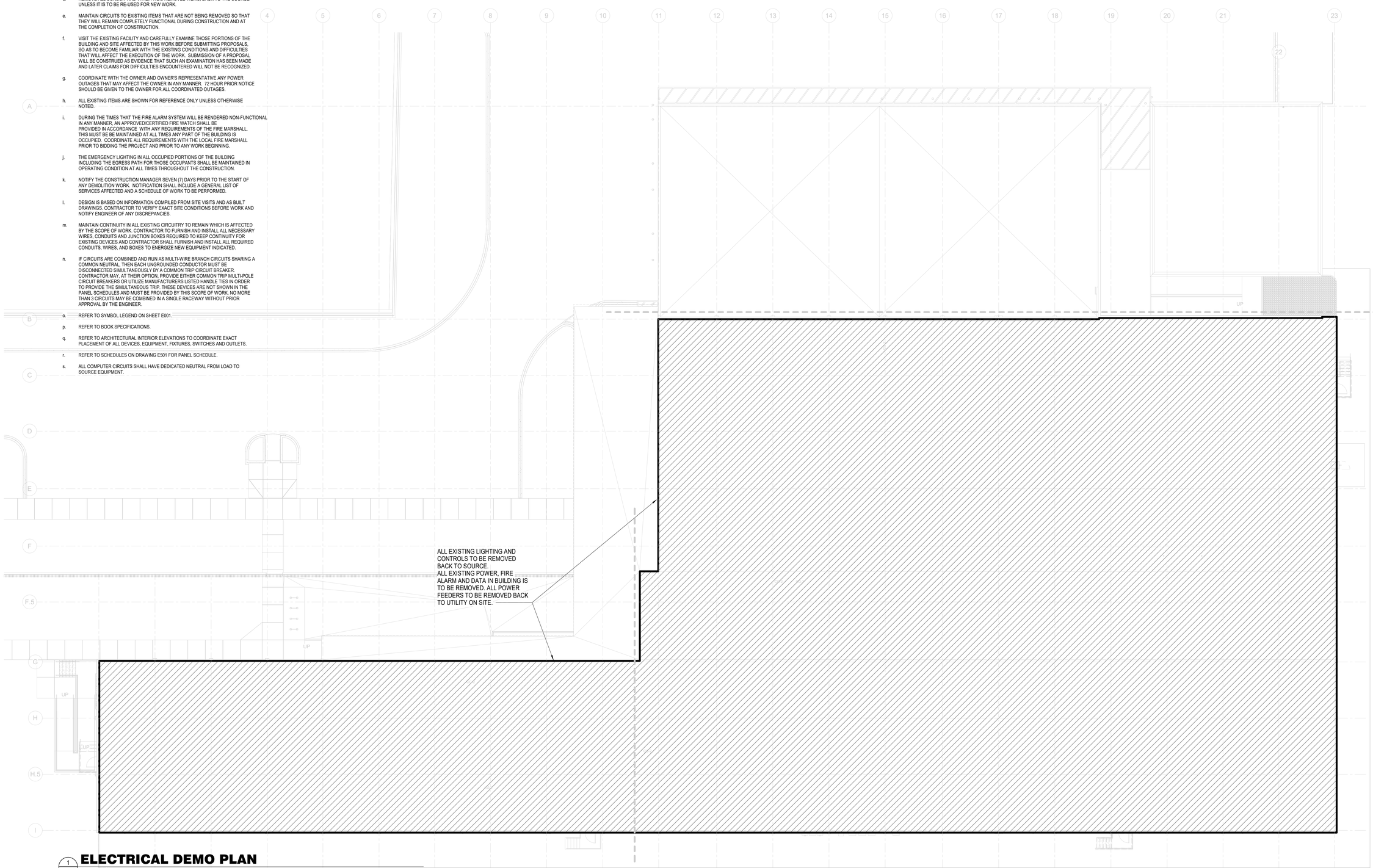
o. REFER TO SYMBOL LEGEND ON SHEET E001.

p. REFER TO BOOK SPECIFICATIONS.

q. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS TO COORDINATE EXACT PLACEMENT OF ALL DEVICES, EQUIPMENT, FIXTURES, SWITCHES AND OUTLETS.

r. REFER TO SCHEDULES ON DRAWING E501 FOR PANEL SCHEDULE.

s. ALL COMPUTER CIRCUITS SHALL HAVE DEDICATED NEUTRAL FROM LOAD TO SOURCE EQUIPMENT.



1 ED-101 **ELECTRICAL DEMO PLAN**
3/32" = 1'-0"

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BLD-25-0517072
9/3/2025

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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:
PERMIT DOCUMENTS

ISSUE DATE:
09/09/2024

REVISIONS:

DRAWN BY: **SN**
CHECKED BY: **JLM**

TPD HOWARD AVENUE ANNEX BUILDING

DEMO ELECTRICAL PLAN

TRUE PROJECT NORTH:

ED-101

'T' SERIES GENERAL NOTES

1. REFER TO SPECIFICATION SECTION "TECHNOLOGY GENERAL PROVISIONS" FOR MORE INFORMATION ABOUT DRAWINGS AND BID DOCUMENTS.
2. MANY SYMBOLS USED IN THIS PROJECT HAVE A TYPE ASSOCIATED WITH THEM. SEE SHEETS WITH DETAILS AND PROJECT SPECIFICATIONS FOR MORE INFORMATION ON THE DESCRIPTION OF EACH TYPE.
3. ALL CONDUIT FOR TECHNOLOGY SYSTEMS INDOOR ABOVE GRADE SHALL BE EMT AND ALL CONDUITFOR BELOW GRADE SHALL BE PVC.
4. SEE LIFE SAFETY PLANS FOR LOCATIONS OF FIRE RATED PARTITIONS IN THIS PROJECT. PROVIDE AN APPROVIMATION TO THE ACTUAL LOCATION OF THE DEVICE AND NEED TO BE CAREFULLY COORDINATED WITH OTHER ELEMENTS IN THE VICINITY. AS A GENERAL GUIDELINE:

   A. VOICE/DATA OUTLET FOR WORK-AREAS SHALL BE INSTALLED WITHIN 6 INCHES OF A POWER OUTLET INDICATED IN ELECTRICAL DRAWINGS.

   B. TV OUTLETS SHALL BE INSTALLED WITHIN 6 INCHES OF A POWER OUTLET SHOWN ON THE ELECTRICAL DRAWINGS.

   C. WHEN MULTIPLE TECHNOLOGY SYSTEMS OUTLETS ARE INDICATED NEXT TO EACH OTHER WITH SYMBOLS, THE SPACING BETWEEN OUTLETS SHALL BE CONSISTENT IF NO ELEVATION IS SHOWN ON THE DRAWINGS.

   D. WHEN INSTALLER IS NOT CERTAIN ABOUT SPECIFIC ADJACENCIES OF A DEVICE, THE QUESTION SHALL BE ASKED TO THE ENGINEER PRIOR TO INSTALLATION.
7. FOR EXACT LOCATION OF CEILING MOUNTED EQUIPMENT REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN. LOCATIONS OF EQUIPMENT NOT INCLUDED ON THE REFLECTED CEILING PLAN SHALL BE COORDINATED WITH THOSE ITEMS SHOWN. COORDINATION OF CEILING MOUNTED EQUIPMENT SHALL BE PRIOR TO ANY ROUGH-IN. NOTIFY ENGINEER OF ANY DISCREPANCY.
8. LOCATIONS OF FLOOR BOXES AND FLOOR PENETRATIONS SHALL NOT BE MEASURED FROM THIS SET OF DRAWINGS, INSTALLER SHALL REQUEST PRECISE LOCATIONS FROM ARCHITECT.
9. EACH VOICE/DATA RJ45 JACK SHALL BE CONNECTED TO A DEDICATED 4 PR CABLE.
10. THE RESPONSIBILITY OF RACEWAY INSTALLATION SHALL BE AS DIRECTED BY THE GENERAL CONTRACTOR, BUT ALL RACEWAYS FOR TECHNOLOGY ARE TO BE INCLUDED IN THIS CONTRACT.
11. WHEN CONDUIT RUNS ARE INDICATED ABOVE GRADE OR BELOW GRADE ON THESE DRAWINGS, NOT EVERY SINGLE JUNCTION BOX (OR COMMUNICATIONS VAULT) REQUIRED IS INDICATED ON THE DRAWINGS. TYPICALLY ONLY END POINT LOCATIONS OR SPECIFIC PASS-THROUGH LOCATIONS WHERE THE ENGINEER DESIRES A BOX ARE SHOWN ON THE DRAWINGS. SEE SPECIFICATION "RACEWAYS FOR TECHNOLOGY" FOR REQUIREMENTS THAT INDICATE ADDITIONAL JUNCTION BOXES OR COMMUNICATION VAULTS THAT SHALL BE PROVIDED UNDER THIS CONTRACT. SUCH REQUIREMENTS INCLUDE ADDITIONAL BOXES REQUIRED BECAUSE OF NUMBER OF CONDUIT BENDS OR CHANGES IN ELEVATION.
12. SOME SYMBOLS INCLUDED IN THE SYMBOL LEGEND MAY NOT BE USED IN THESE PROJECT DRAWINGS.
13. UNDER NO CONDITIONS, CONDUITS FOR LOW VOLTAGE FOR FLOOR BOXES SHALL BE DAISY CHAINED TOGETHER BETWEEN ADJACENT FLOOR BOXES. ALL CONDUITS FOR FLOOR BOXES SHALL BE HOME RUNS TO NEAREST ACCESSIBLE CEILING SPACE.
14. THIS SET OF DRAWINGS DOES NOT INDICATE ALL GROUNDING AND BONDING REQUIREMENTS FOR TECHNOLOGY SYSTEMS. REFER TO SPECIFICATION SECTION "GROUNDING FOR TELECOMMUNICATION SYSTEM" FOR ADDITIONAL REQUIREMENTS.
15. ALL CABLES FOR TECHNOLOGY SYSTEMS RUN UNDER SLAB OR BELOW GRADE IN CONDUITS STUBBING UP INSIDE THE TELECOM ROOM SHALL BE INDOOR/OUTDOOR RATED. FOR CONDUITS STUBBING UP IN OTHER LOCATIONS DIFFERENT FROM TELECOM ROOM AND FURTHER THAN 50 FT. FROM A TELECOM ROOM, DO NOT USE INDOOR/OUTDOOR RATED CABLES.
16. GRAPHICS USED FOR EQUIPMENT IN ELEVATIONS AND CHANNELS (LINE DRAWINGS) DO NOT NECESSARILY REPRESENT THE PART NUMBER OF THE EQUIPMENT SPECIFIED. THE PART NUMBERS LISTED IN THE DRAWINGS AND SPECIFICATIONS ARE TO BE FOLLOWED FOR BASIS OF DESIGN, NOT THE GRAPHICS.
17. THE TECHNOLOGY DRAWINGS DO NOT SHOW ALL REQUIRED CONDUITS/RACEWAYS TO BE PROVIDED UNDER THIS CONTRACT. TYPICALLY CONDUIT SLEEVES SMALLER THAN 2" ARE NOT SHOWN ON THE DRAWINGS. SEE SPECIFICATIONS "RACEWAYS FOR TECHNOLOGY" AND DRAWING DETAILS FOR ADDITIONAL RACEWAY REQUIREMENTS.
18. DEFINITION OF ACRONYMS USED IN THESE DRAWINGS:

    A. NIC (N.I.C.) - NOT IN CONTRACT
    B. OFE (O.F.E.) = OWNER FURNISHED EQUIPMENT. SEE RESPONSIBILITY MATRIX FOR MORE INFORMATION.
    C. DHI (D.H.I.) = DOOR HARDWARE INSTALLER
    D.USC (U.S.C.) = UNDER SEPARATE CONTRACT.
19. ALL REQUIRED WALL PENETRATIONS, SHALL MAINTAIN THE NEW WALL RATING AFTER CABLING HAS BEEN INSTALLED.
22. ALL SPEAKERS MOUNTED IN A CEILING TILE SHALL BE CENTERED IN THE CEILING TILE.

SECURITY SYSTEM GENERAL NOTES

1. SYMBOLS USED TO REPRESENT DEVICES SUCH AS CCTV CAMERAS, INTERCOM STATIONS, SECURITY WORKSTATIONS, CALL STATIONS, AND EMERGENCY PHONE STATIONS REQUIRE ONE (1) DATA DROP FOR SUCH DEVICE. THIS DATA DROP IS NOT SHOWN ON THE VOICE/DATA FLOOR PLANS, BUT SHALL BE PROVIDED FOLLOWING ALL REQUIREMENTS FOR VOICE/DATA DROPS INDICATED IN THE DRAWING DETAILS AND IN THE SPECIFICATION "STRUCTURED CABLING SYSTEM".
2. ANY DATA DROPS FOR SECURITY DEVICES EXCEEDING 295 FT. OF PERMANENT LINK DISTANCE TO THE TELECOM ROOM WHERE CAMERA WILL BE WIRED TO, SHALL BE WIRED WITH FIBER OPTICS FOR HORIZONTAL CABLING AND A 2 CONDUCTOR AWG-16 CL2 (P) CABLE. THE FIBER CABLE SHALL BE AS DESCRIBED IN SPECIFICATION "STRUCTURED CABLING SYSTEM". IF NO INDICATION IN SUCH SPECIFICATION, FIBER OPTIC CABLE SHALL BE A 2-STRAND OS2 CABLE WITH A SUITABLE JACKET FOR THE APPLICATION.
3. ALL DOUBLE DOORS THAT ARE SHOWN WITH TWO DOOR POSITIONS SWITCHES ARE TO RECEIVE (1) DOOR POSITION SWITCH ON EACH DOOR LEAF AND SHALL REPORT AS ONE ALARM POINT.
4. ALL CAMERAS, CARD READERS AND/OR KEYPADS DEDICATED FOR ELEVATOR FLOOR SELECTION CONTROL ARE SHOWN INSIDE THE ELEVATOR CAB ON THE LOWEST LEVEL FLOOR PLAN TO WHICH THE ELEVATOR TRAVELS.
5. LOCATION OF SURVEILLANCE CAMERAS SHALL BE CLOSELY COORDINATED WITH OTHER TRADES TO AVOID OBSTRUCTIONS IN THE FIELD OF VIEW. IT IS NOT REQUIRED FOR CAMERAS TO BE MOUNTED IN CENTER OF A CEILING TILE (OR CENTER OF A HALLWAY) IF THAT LOCATION CAUSES AN OBSTRUCTION IN THE FIELD OF VIEW OF THE CAMERA. ALL CAMERAS ARE TO BE INSTALLED AS TO MINIMIZE THE OBSTRUCTIONS IN THE FIELD OF VIEW WITHIN A 4' RADIUS OF THE SPECIFIED LOCATION.
6. SURVEILLANCE CAMERAS INDICATED IN THE CORNER OF A ROOM SHALL BE INSTALLED AS CLOSE AS PHYSICALLY POSSIBLE TO THE CORNER OF THE ROOM TO GAIN THE BEST FIELD OF VIEW FOR THAT CAMERA.
7. EACH ACCESS CONTROLLED DOOR IN THE PROJECT HAS A DOOR IDENTIFIER SYMBOL THAT ASSOCIATES THE DOOR TO A CORRESPONDING ROUGH-IN DETAIL IN THE DRAWINGS AND A SPECIFIC FUNCTIONALITY OF THE DOOR IN THE SECURITY SPECIFICATIONS.

BASIC MATERIALS

- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- CAPPED CONDUIT
- CONDUIT STUBBED AND BUSHED INTO ACCESSIBLE CEILING CAVITY
- CONDUIT CONTINUED
- CONDUIT SLEEVES (X = QTY OF SLEEVES; Y = SIZE OF CONDUITS SLEEVES PENETRATING WALL ABOVE CEILING SPACE. IF NO QUANTITY INDICATED USE AS MANY SLEEVES AS REQUIRED TO MATCH CROSS SECTIONAL AREA OF CABLE TRAY NEXT TO SLEEVE.)
- TUBULAR RUNWAY, HUNG ABOVE CEILING OR AS NOTED
- CABLE TRAY (TYPE), HUNG ABOVE CEILING OR AS NOTED
- SURFACE MOUNTED ENCLOSED TECHNOLOGY SYSTEMS. SEE SHEETS WITH DETAILS FOR ADDITIONAL INFORMATION
- JUNCTION BOX WALL MOUNTED. SIZE PER NEC IF NOT INDICATED ON DRAWING. NEMA 1 FOR INTERIOR, NEMA 4X FOR EXTERIOR USE WITH HINGED COVER AND LOCKING COVER
- JUNCTION BOX CEILING MOUNTED. SIZE PER NEC IF NOT INDICATED ON DRAWING. NEMA 1 FOR INTERIOR, NEMA 4X FOR EXTERIOR USE WITH HINGED COVER AND LOCKING COVER TELECOMMUNICATIONS GROUND VAULT. SEE DETAILS AND SPECIFICATIONS FOR MORE INFORMATION
- X= BOX TYPE

GENERAL

- NEW EQUIPMENT
- EXISTING WORK AND/OR EQUIPMENT REFERENCE, SHOWN ON MULTIPLE DRAWINGS
- DEVICE TO BE REMOVED (DEMO PLANS) UNDERFLOOR CONDUIT (NEW PLANS)
- WIRE AND/OR CONDUIT RUN CONTINUED ON REFERENCED DETAIL
- MATCH LINE REFERENCING CONTINUATION ON OTHER DRAWINGS
- DETAIL AND/OR SECTION REFERENCE
- CABLE ROUTING BOUNDARY
- FUTURE WORK

DRAWING NOTES AND DESIGNATIONS

- DRAWING KEYED NOTES
- CABLE ROUTING NOTES
- DETAIL OR SECTION REFERENCE TAG

VOICE AND DATA SYSTEM

TELECOMMUNICATION OUTLET
W,WP = MOUNTING: (E= EXISTING, F= FLUSH, S= SURFACE, M= MODULAR FURNITURE ADAPTER, P= POLE, L= FLOOR, R= RACEWAY, WB=AV WALL BOX ,PP= PATCH PANEL)
XNYZ = N= NUMBER OF DATA CABLES IN THE FACEPLATE
Y= NMBER OF COAXIAL CABLES IN THE FACE PLATE
Z= NUMBER OF FIBER OPTIC STRANDS IN THE FACEPLATE
+H= INSTALLATION HEIGHT IN INCHES AT CENTER OF OUTLET, COORDINATE WITH ELECTRICAL. IF NOT SHOWN INSTALL AT TYPICAL RECEPTACLE HEIGHT.
W= WALL TELEPHONE FACEPLATE WITH SUPPORT STUDS, INSTALLED AT 48" AFF AT CENTER OF OUTLET AND 12" FROM EDGE OF WALL.
WP=WEATHERPROOF

EXAMPLE: F2 = TWO DATA JACKS IN A SINGLE FACEPLATE, FLUSH MOUNTED

- MECHSY: OUTLET FOR MECHANICAL/ ELECTRICAL/ FIRE ALARM/ ELEVATOR/ STAR CONNECTION Y: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
- WAPXY: OUTLET FOR WIRELESS ACCESS POINT, WALL MOUNTED XY: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
- XY: CEILING MOUNTED INFORMATION OUTLET, MOUNTED ON FINISHED CEILING XY: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
- WAPXY: OUTLET FOR WIRELESS ACCESS POINT, MOUNTED ON FINISHED CEILING XY: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET

FLOOR BOX FOR TECHNOLOGY SYSTEMS AND POWER OUTLETS.

- YZ XN: AS DESCRIBED FOR COMMUNICATIONS OUTLET Y= DENOTES BOX TYPE (1,2,3...) Z= DENOTES PLATE TYPE (A,B,C...), A= NO AUDIO/VISUAL

POKE-THRU FOR TECHNOLOGY SYSTEMS AND POWER OUTLETS.

- YZ XN: AS DESCRIBED FOR COMMUNICATIONS OUTLET Y= DENOTES BOX TYPE (1,2,3...) Z= DENOTES PLATE TYPE (A,B,C...), A= NO AUDIO/VISUAL
- WALL MOUNTED FURNITURE FEED USED TO FEED CABLES TO MODULAR FURNITURE OR CABLES
- POKE THRU FURNITURE FEED USED TO FEED CABLES TO MODULAR FURNITURE OR CABLES
- POWER POLE FOR COMBINED USE - TECHNOLOGY SYSTEMS AND POWER. X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- WALL MOUNTED DATA OUTLET TO SUPPORT MONITOR. COORDINATE WITH ELEVATIONS AND ARCHITECTURAL FOR MOUNTING HEIGHTS. XY: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
- CEILING POLE MOUNTED TV. FEED DATA THROUGH SUPPORT COLUMN. COORDINATE WITH AV INTEGRATOR TO PROVIDE. XY: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
- DOUBLEGANG J-BOX WITH HORIZONTAL SINGLE GANG MUDRING FOR AV ROOM SCHEDULER. COORDINATE WITH ELEVATIONS AND ARCHITECTURAL FOR MOUNTING HEIGHTS. XY: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
- DOUBLEGANG J-BOX WITH HORIZONTAL SINGLE GANG MUDRING FOR AV TOUCH PANEL. COORDINATE WITH ELEVATIONS AND ARCHITECTURAL FOR MOUNTING HEIGHTS. XY: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET
- DOUBLEGANG J-BOX FOR INTERVIEW RECORDING SYSTEM. COORDINATE WITH ELEVATIONS AND ARCHITECTURAL FOR MOUNTING HEIGHTS. XY: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET

DISTRIBUTED ANTENNA SYSTEMS

- DAS ANTENNA, WALL MOUNTED X= ANTENNA TYPE Y= ANTENNA NUMBER Z= SPLITTER NUMBER THE ANTENNA IS ASSOCIATED WITH
- DAS ANTENNA, CEILING MOUNTED X= ANTENNA TYPE Y= ANTENNA NUMBER Z= SPLITTER NUMBER THE ANTENNA IS ASSOCIATED WITH
- DAS SPLITTER X= SPLITTER NUMBER
- ROOF ANTENNA, WALL MOUNTED
- BDAX: FIBER BDA X= FIBER BDA NUMBER
- DAS REPEATER

AUDIO VISUAL EQUIPMENT

- SX: CEILING MOUNTED SPEAKER X= SPEAKER TYPE Y= SPEAKER ZONE Z= DENOTES SPEAKER # IN ZONE W= DENOTES SPEAKER WATTAGE TAP NO ZONE INDICATES LOCAL ZONE FOR A/V SYSTEM IN ROOM
- SX: WALL MOUNTED SPEAKER X= SPEAKER TYPE Y= SPEAKER ZONE Z= DENOTES SPEAKER # IN ZONE W= DENOTES SPEAKER WATTAGE TAP NO ZONE INDICATES LOCAL ZONE FOR A/V SYSTEM IN ROOM
- VC: VOLUME CONTROL, WALL MOUNTED
- FT: FLIP TOP DEVICE MOUNTED ON TABLE
- SM: SENS MICROPHONE FOR AMBIENT NOISE, WALL MOUNTED
- SM: SENS MICROPHONE FOR AMBIENT NOISE, CEILING MOUNTED
- MX: MICROPHONE, DESK MOUNTED X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- MX: MICROPHONE, WALL MOUNTED X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- MX: MICROPHONE, CEILING MOUNTED X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- TSX: TOUCH SCREEN FOR AUDIO/VIDEO CONTROL, DESK MOUNTED X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- TSX: TOUCH SCREEN FOR AUDIO/VIDEO CONTROL, WALL MOUNTED, INCLUDES BACK BOX X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- AV X: CAMERA FOR AV SYSTEM, CEILING MOUNTED X= TYPE
- ALT: ASSISTED LISTENING TRANSMITTER, WALL MOUNTED
- IRCX: ROOM CONTROLLER FOR AUDIO/VIDEO CONTROL, WALL MOUNTED, INCLUDES BACK BOX X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- AUDIO VISUAL DISPLAY TT= DISPLAY TYPE WITH MOUNT XX= SCREEN SIZE +YY= HEIGHT TO CENTER OF SCREEN
- INTERACTIVE WHITEBOARD TT= DISPLAY TYPE WITH MOUNT XX= SCREEN SIZE +YY= HEIGHT TO CENTER OF SCREEN
- OVERHEAD PROJECTOR WITH MOUNT X= TYPE Y= LENS THROW RATIO
- PULLDOWN PROJECTION SCREEN X= DIAGONAL DIMENSION IN INCHES
- MOTORIZED PROJECTION SCREEN X= DIAGONAL DIMENSION IN INCHES
- SLV: WALL SWITCH FOR MOTORIZED SCREEN
- PX: PODIUM FOR AV EQUIPMENT, REFER TO DETAIL SHEETS X= TYPE
- WA: WIRELESS ANTENNA FOR WIRELESS MICRPHONE, WALL MOUNTED
- BB: BACK BOX FOR CREDENZA RACK, REFER TO DETAIL SHEETS
- AVX: AV PLATE OUTLET, REFER TO DETAIL SHEETS X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT

AV DEVICES MAY RECIEVE DATA. AV DEVICES RECIEVING DATA DROPS ARESHOWN AND NOTATED ON VOICE-DATA DRAWINGS WITH VOICE-DATA TAGS & NOMENCLATURE. DEVICES ARE SHOWN AND NOTATED ON AUDIO-VISUAL DRAWINGS TO DESCRIBE THEIR A/V CHARACTERISTICS AND THEIR PLACE IN THE AV SYSTEM. DEVICE SPECIFICATION TYPICALLY TO BE DONE ON AV RISER DIAGRAMS

DISPLAY LOCATION TYPES
TV1 - 2 DATA, 1 COAX - STANDALONE DISPLAY WITH CABLE AND AV CAPABILITY
TV2 - 4 DATA - SMART BOARD
TV3 - 1 DATA - VIDEO WALL DISPLAY

ELECTRONIC SECURITY SYSTEM

- CR: CARD READER, WALL MOUNTED
- CK: CARD READER WITH INTEGRATED KEYPAD, WALL MOUNTED
- BR: BIOMETRIC ACCESS CONTROL DEVICE, WALL MOUNTED
- KP: KEYPAD, WALL MOUNTED
- CL: INTEGRATED CARD READER /LOCK, DOOR MOUNTED
- IK: INTRUSION ALARM KEYPAD
- EM: ELECTRIC MORTISE LOCK OR ELECTRIC TRIM
- DE: DELAYED EGRESS LATCH LOCK
- DM: DELAYED EGRESS MAG LOCK
- EL: ELECTRIC LATCH RETRACTION LOCK
- ML: ELECTROMAGNETIC LOCK
- ES: ELECTRIC DOOR STRIKE
- EO: ELECTRIC DOOR OPERATOR (ACTUATOR ARM)
- DPS: DOOR POSITION SWITCH
- WGI: WIRELESS GATEWAY FOR INTEGRATED CARD READER/LOCK, WALL MOUNTED, 7'-0" AFF
- LA: LOCAL ALARM - HORN/STROBE, WALL MOUNTED
- SA: SIREN ALARM FOR INTRUSION DETECTION, WALL MOUNTED, 7'-0" AFF
- ISX: INTERCOM SUBSTATION (DOOR STATION), WALL MOUNTED X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- IMX: INTERCOM MASTER STATION, DESK MOUNTED X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- IWX: INTERCOM MASTER STATION, WAI MOUNTED X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT
- CS: CALL STATION (THROUGH PHONE LINE) FOR BUILDING ENTRY, WALL MOUNTED
- XXX: DOOR TYPE IDENTIFIER X= TYPE (A1,C3,B6..) REFER TO SECURITY DOOR DETAILS
- DOOR RELEASE BUTTON, WALL MOUNTED X= A: ADA ACCESSIBLE - (PALM ACTUATOR), W: HAND WAVE, IF NOT SHOWN, REGULAR PUSH BUTTON
- DOOR RELEASE BUTTON, DESK MOUNTED
- REX: REQUEST TO EXIT DEVICE (IR SENSOR), MOUNT CENTERED ABOVE DOOR FRAME
- GO: ELECTRIC GATE OPERATOR
- D: DURESS PANIC BUTTON, WALL MOUNTED
- D: DURESS PANIC BUTTON, MOUNTED UNDER DESK
- MD: MOTION DETECTOR, WALL MOUNTED, MOUNT 6" BELOW CEILING OR 8'-0" AFF MAX
- MD: MOTION DETECTOR, 360 DEGREE SENSOR, CEILING MOUNTED
- LINE BETWEEN SECURITY DEVICES, INDICATES ASSOCIATED EQUIPMENT

VIDEO SURVEILLANCE SYSTEMS

- FIXED POSITION CCTV CAMERA, REFER TO PLANS, SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION
- FIXED POSITION 360 DEGREE CCTV CAMERA, REFER TO PLANS, SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION
- PAN-TILT-ZOOM CCTV CAMERA, REFER TO PLANS, SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION

CAMERAS AND INTERCOMS SHALL BE PROVIDED WITH DATA CABLES

ACS DOOR TYPES

DOOR HARDWARE BY DIVISION 8. SEE ARCHITECTURAL FOR ADDITIONAL INFORMATION.

M1 - MONITORED SINGLE DOOR. DPS ONLY.
M2 - MONITORED DOUBLE DOOR. DPS ONLY.
M3 - MONITORED ROLL UP DOOR. DPS ONLY.
C1 - MONITORED AND CONTROLLED SINGLE DOOR. PROVIDE READER, DPS, AND ELECTRIFIED DOOR HARDWARE.
C2 - MONITORED AND CONTROLLED DOUBLE DOOR. PROVIDE READER, DPS, AND ELECTRIFIED DOOR HARDWARE.
C3 - MONITORED AND CONTROLLED SINGLE DOOR WITH CARD IN/CARD OUT. PROVIDE READERS, DPS, AND ELECTRIFIED DOOR HARDWARE.
C4 - MONITORED AND CONTROLLED ROLL UP DOOR DOOR. PROVIDE READER, DPS, AND INTEGRATE TO MOTORIZED DOOR CONTROLLER

TECHNOLOGY DRAWING INDEX

SHEET	DESCRIPTION
T001	TECHNOLOGY SYMBOLS, LEGEND, NOTES AND INDEX
T002	TECHNOLOGY SITE PLAN
T101A	FIRST FLOOR PLAN - DATA AND SECURITY - AREA A AND C
T101B	FIRST FLOOR PLAN - DATA AND SECURITY - AREA B
T401	ENLARGED PLANS
T601	VOICE/DATA RISER DIAGRAMS
T611	SECURITY RISER DIAGRAMS
T621	DAS RISER DIAGRAM
T711	VOICE/DATA DETAILS
T721	AUDIO/VISUAL DETAILS
T731	SECURITY DETAILS
T801	TECHNOLOGY SCHEDULES

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Tampa, FL 33609-2978

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Digitally signed by Vincent M Rea
Date: 2024.11.25 10:27:13-05'00'

11/22/2024

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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:
PERMIT DOCUMENTS

ISSUE DATE:
9/9/2024

REVISIONS:

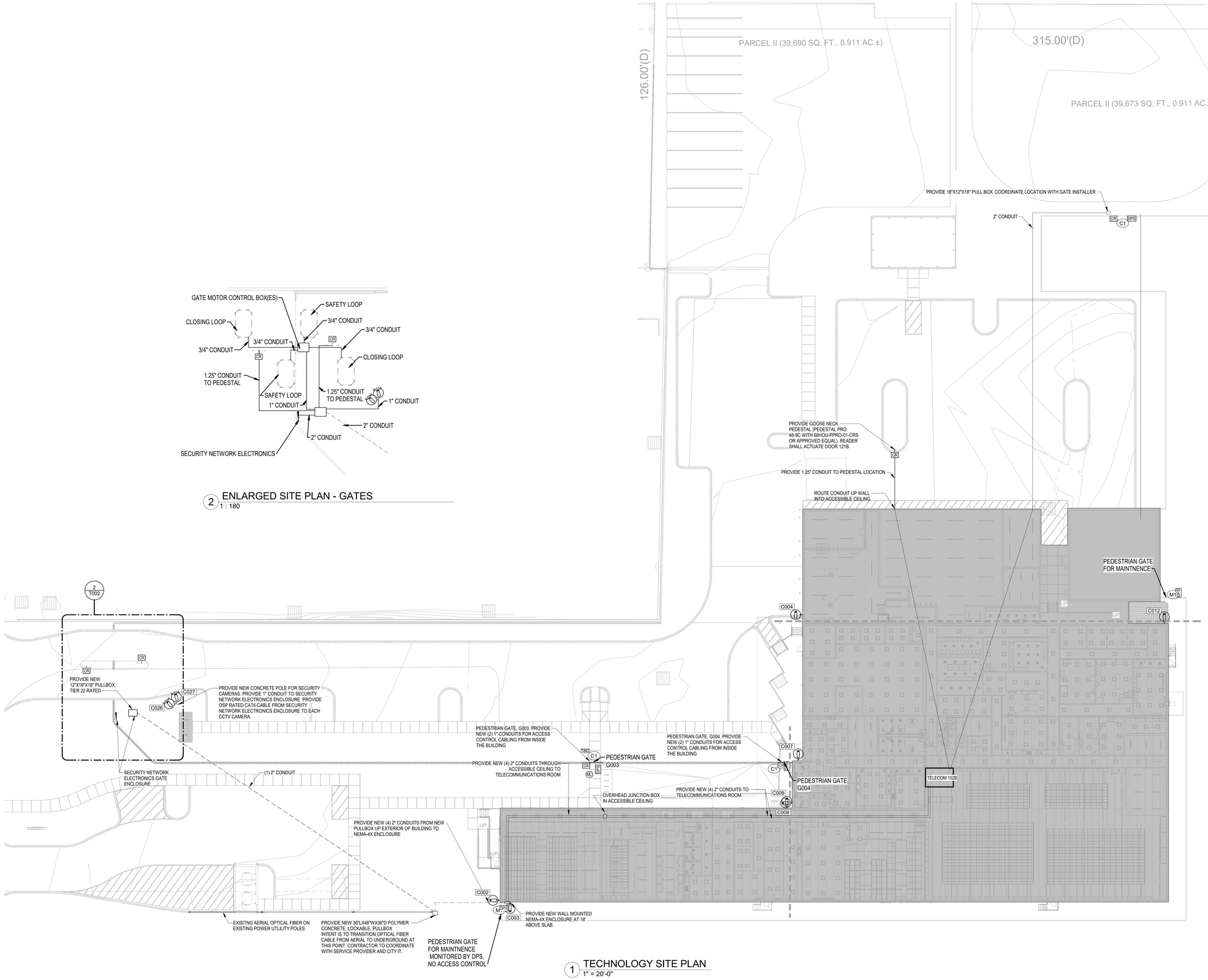
DRAWN BY: **KYLE JONES**
CHECKED BY: **TAW NORTH**

TPD HOWARD AVENUE ANNEX BUILDING

TECHNOLOGY SYMBOLS, LEGEND, NOTES AND INDEX

T001

2 ENLARGED SITE PLAN - GATES
1 : 180



1 TECHNOLOGY SITE PLAN
1" = 20'-0"

CITY OF TAMPA
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BLD-25-0517072
9/3/2025

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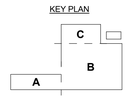
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TPD HOWARD AVENUE ANNEX BUILDING

TECHNOLOGY SITE PLAN

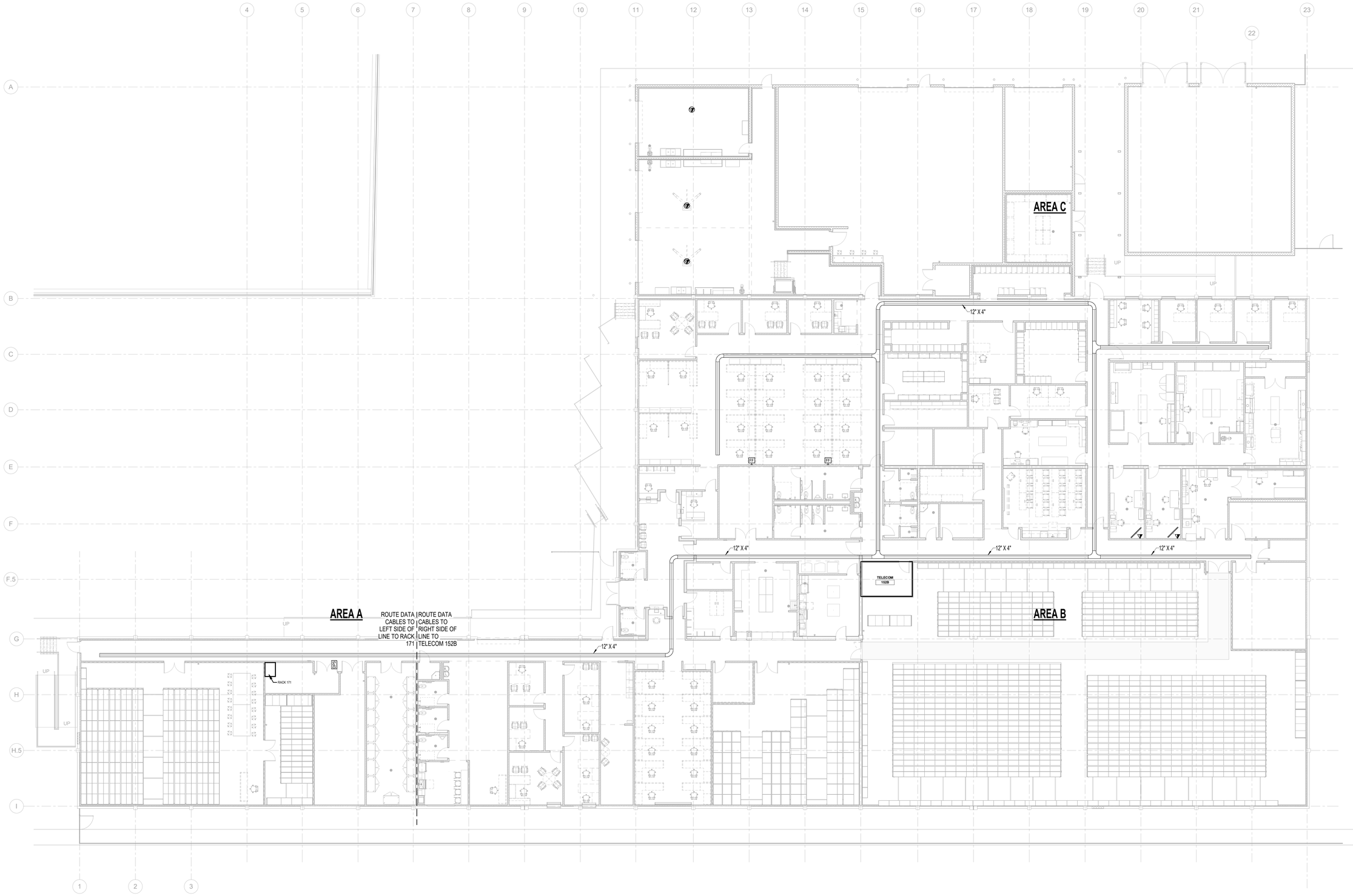
TRUE PROJECT NORTH:

KEY PLAN



T002

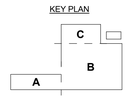
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1 TECHNOLOGY OVERALL FLOOR PLAN
3/32" = 1'-0"

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KEY PLAN



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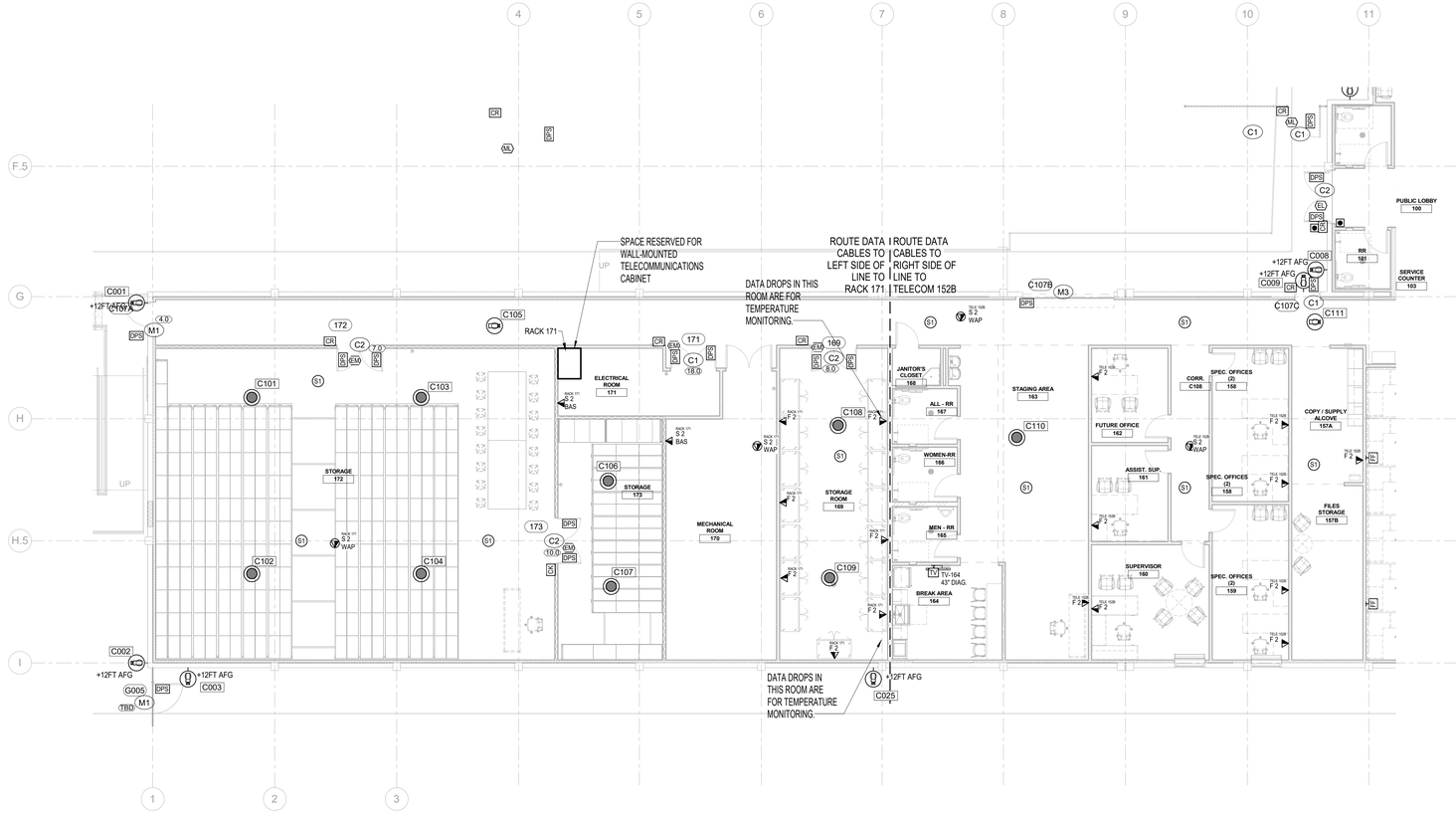
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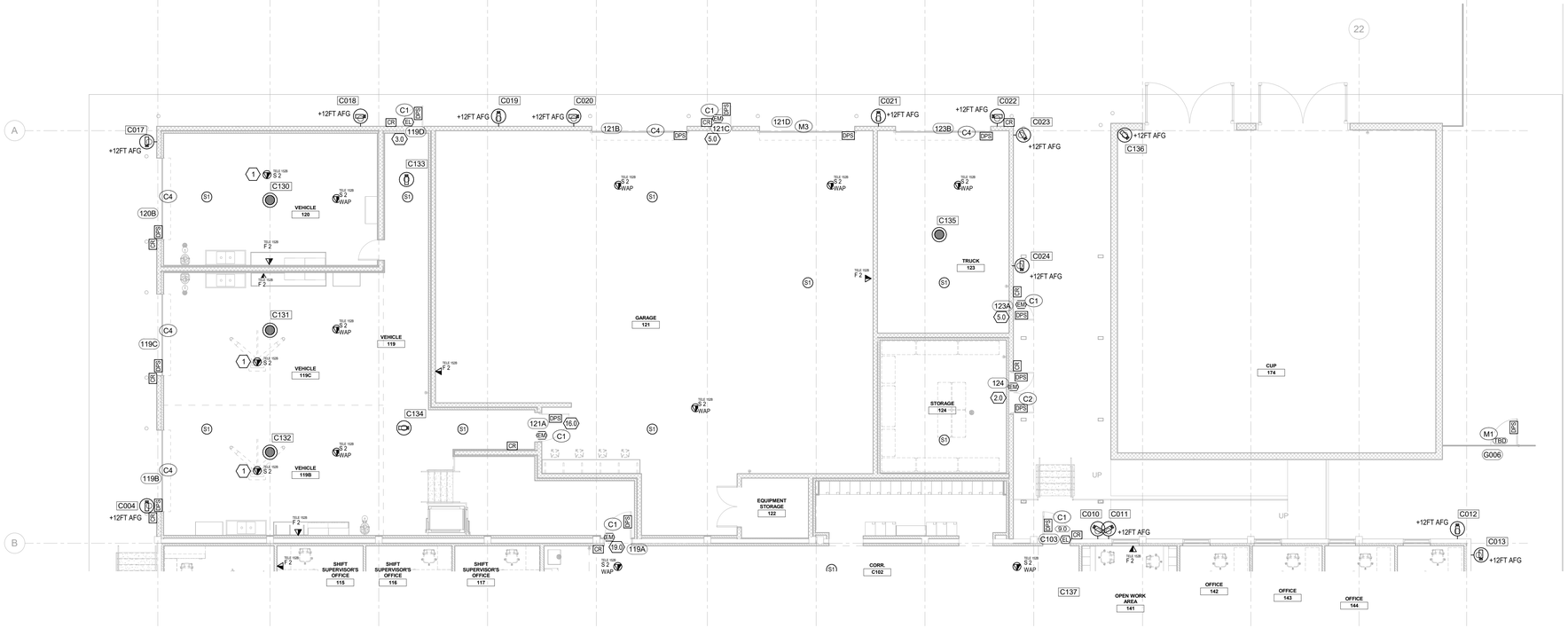
FIRST FLOOR PLAN - OVERALL

TRUE PROJECT NORTH:

T100



1 TECHNOLOGY FLOOR PLAN - LEVEL 1 - AREA A
1/8" = 1'-0"



2 TECHNOLOGY FLOOR PLAN - LEVEL 1 - AREA C
1/8" = 1'-0"

KEYNOTES:

1. PROVIDE DATA IN CEILING FOR VEHICLE LIFT, COORDINATE EXACT LOCATION WITH VEHICLE LIFT EQUIPMENT VENDOR.

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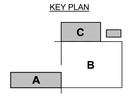
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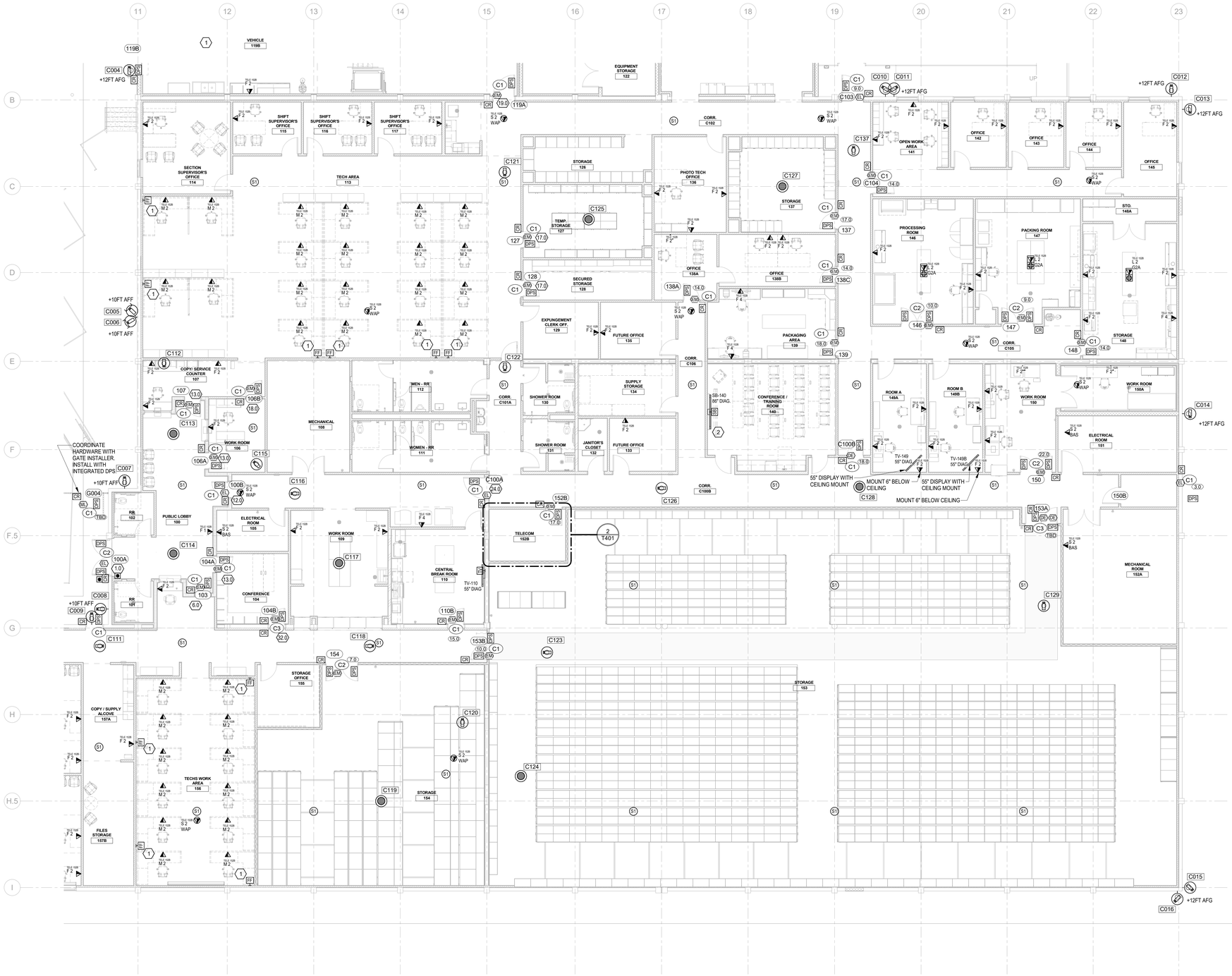
FIRST FLOOR PLAN - DATA AND SECURITY - AREA A AND C

TRUE PROJECT NORTH:

KEY PLAN



T101A



1 TECHNOLOGY FLOOR PLAN - LEVEL 1 - AREA B
1/8" = 1'-0"

KEYNOTES:

1. PROVIDE A DOUBLE GANG JUNCTION BOX WITH (1) 1-1/4 INCH CONDUIT STUBBED UP TO ACCESSIBLE CEILING FOR FURNITURE FEED.
2. PROVIDE 86" SMARTBOARD, SMART BOARD 6000 PRO, #SBID-6286S-V3-P/SBID-6286S-V3-PW.

City of Tampa
CONSTRUCTION SERVICES DIVISION
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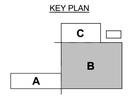
TPD HOWARD AVENUE ANNEX BUILDING

FIRST FLOOR PLAN - DATA AND SECURITY - AREA B

TRUE PROJECT NORTH:

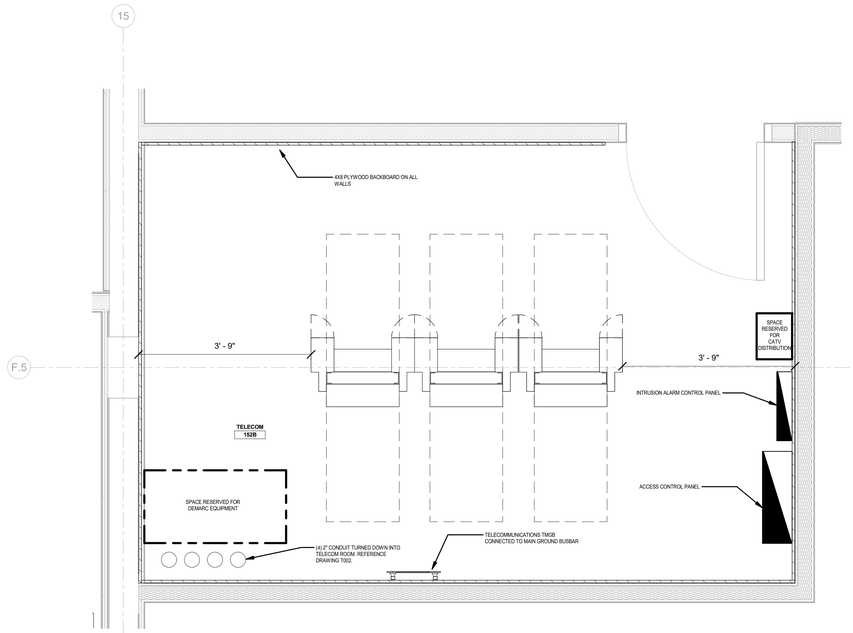
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9/3/2025

KEY PLAN



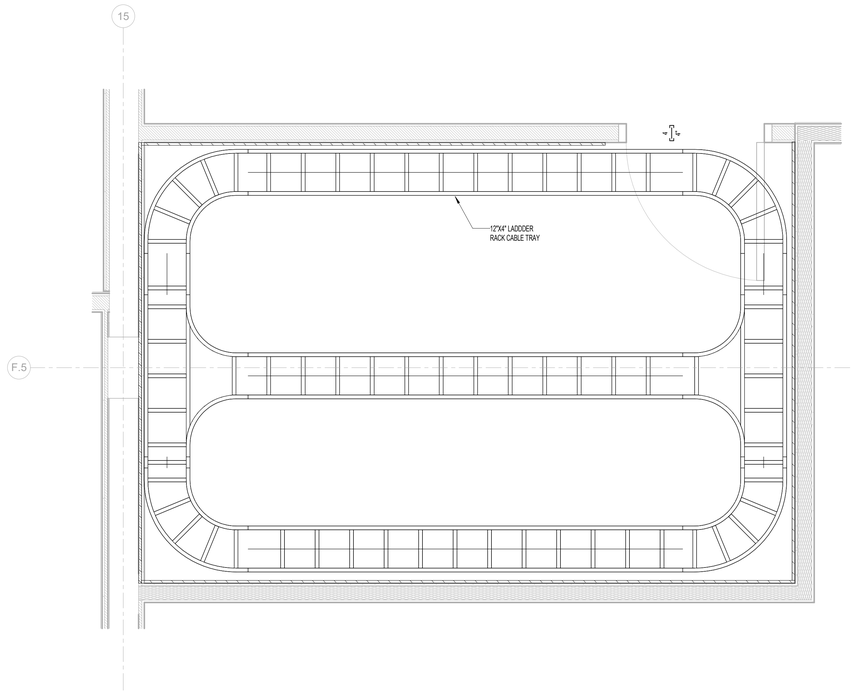
T101B

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TECHNOLOGY FLOOR PLAN - LEVEL 1 - AREA B - ENLARGED TELECOM ROOM

1 3/4" = 1'-0"



TECHNOLOGY FLOOR PLAN - LEVEL 1 - AREA B - ENLARGED TELECOM ROOM - CABLE TRAY

2 3/4" = 1'-0"

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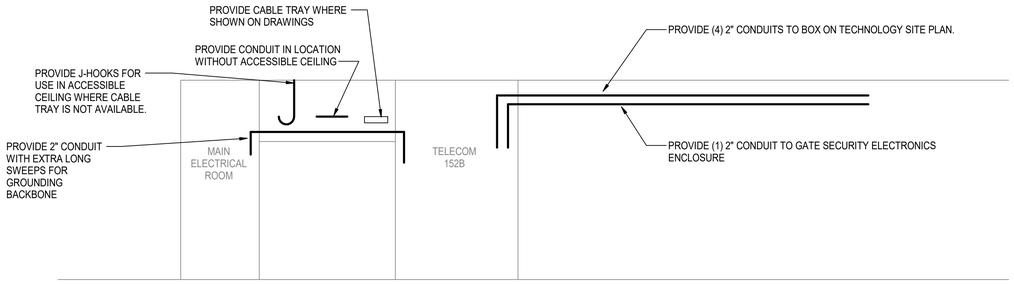
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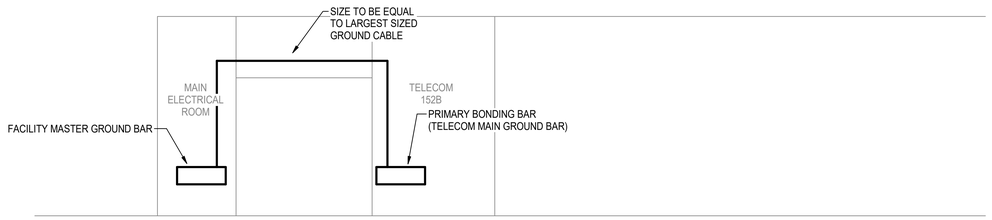
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ENLARGED PLANS

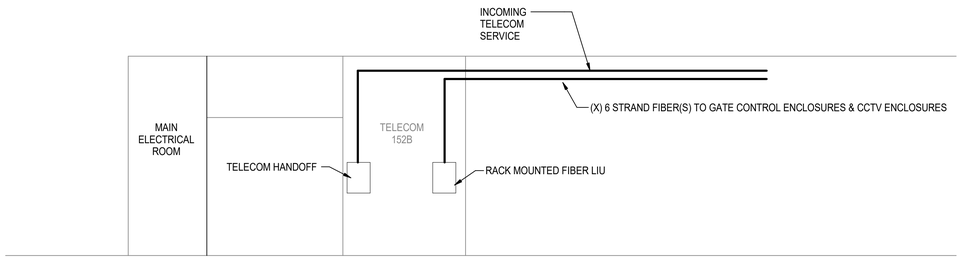
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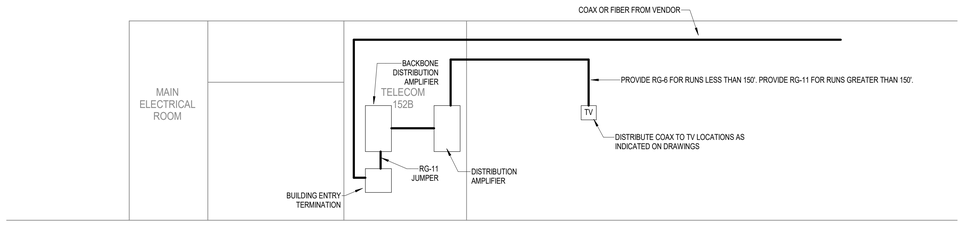
1 PATHWAYS RISER DIAGRAM
12" = 1'-0"



2 GROUNDING RISER DIAGRAM
12" = 1'-0"



3 BACKBONE RISER DIAGRAM
12" = 1'-0"



4 COAX RISER DIAGRAM
12" = 1'-0"

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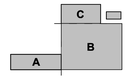
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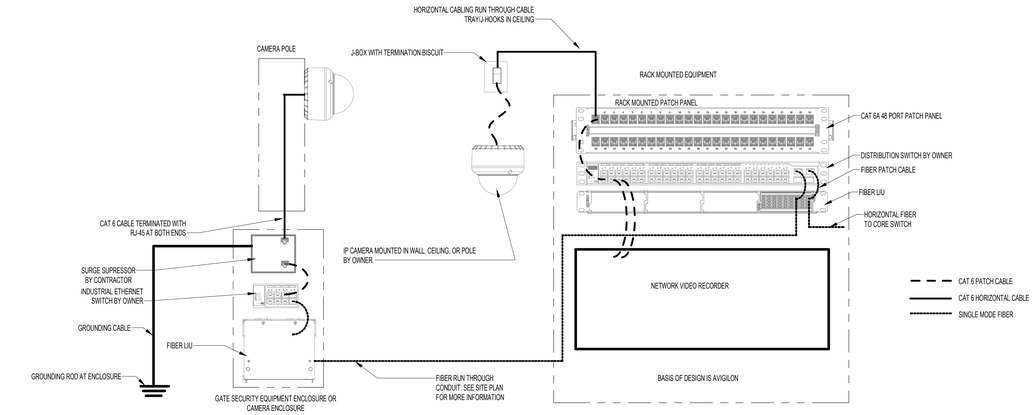
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VOICE/DATA RISER DIAGRAMS

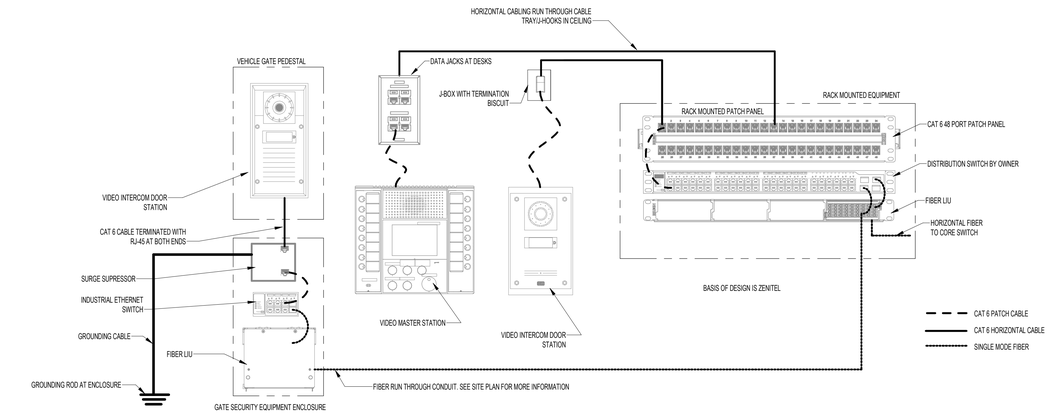
KEY PLAN



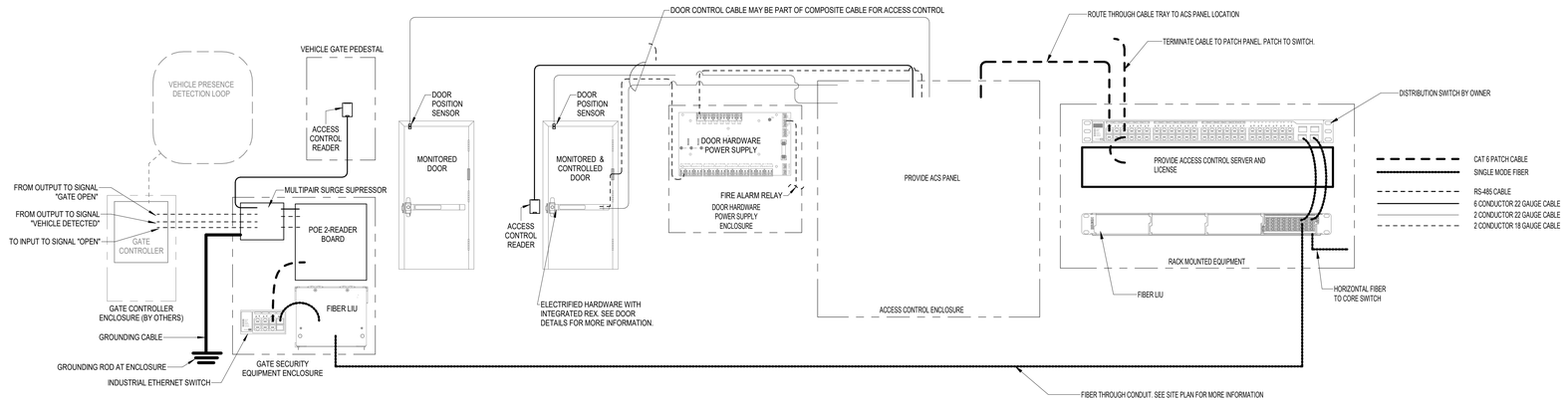
T601



1 CCTV ONELINE
1/4" = 1'-0"



2 INTERCOM ONELINE
1/4" = 1'-0"



3 ACCESS CONTROL RISER
1/2" = 1'-0"

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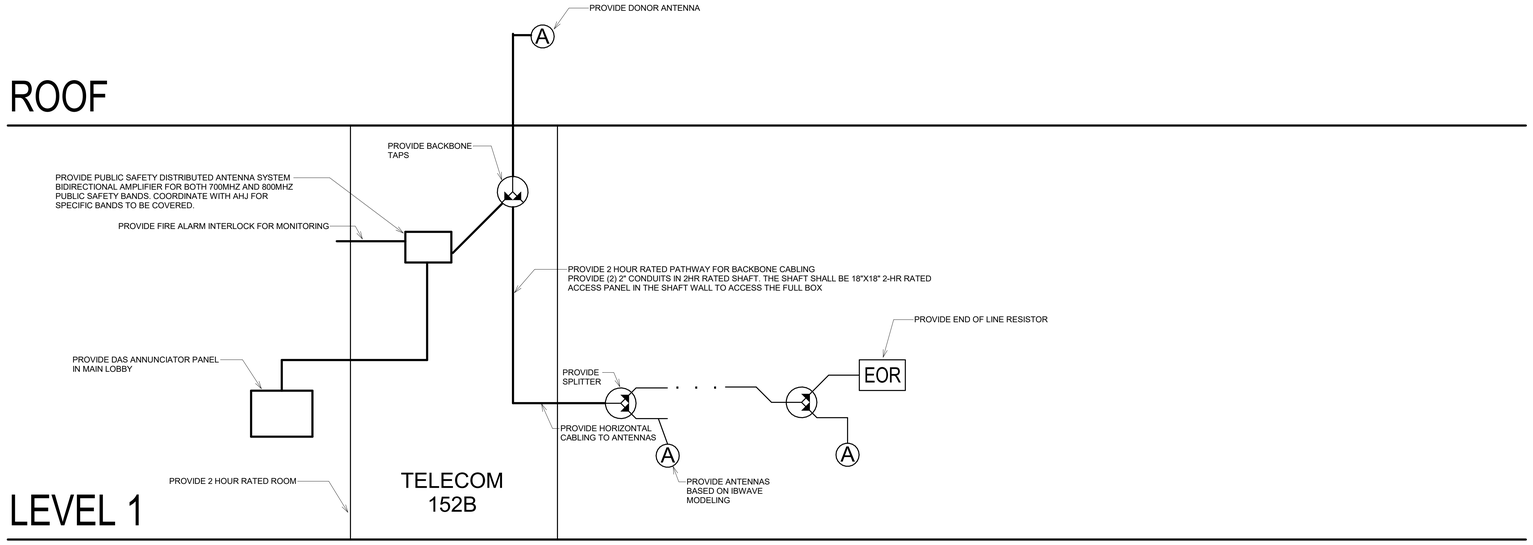
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SECURITY RISER DIAGRAMS

T611



1 DISTRIBUTED ANTENNA SYSTEM RISER DIAGRAM
12" = 1'-0"

CITY OF TAMPA
APPROVED SITE REVIEW ONLY,
NOT VALID WITHOUT
BUILDING PLANS
BLD-25-0517072
9/3/2025

City of Tampa
CONSTRUCTION SERVICES DIVISION
PLANS APPROVAL
BLD-25-0517072 9/3/2025
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11/22/2024

VINCE MICHAEL REA
LICENSE
No. 63723
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:
PERMIT DOCUMENTS

ISSUE DATE:
9/9/2024

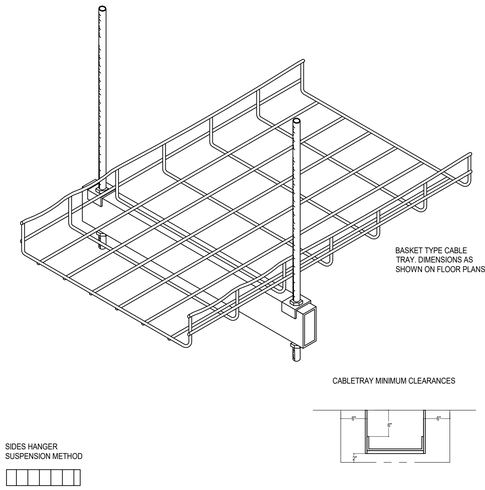
REVISIONS:

DRAWN BY: **KYLE JONES**
CHECKED BY: **TAW NORTH**

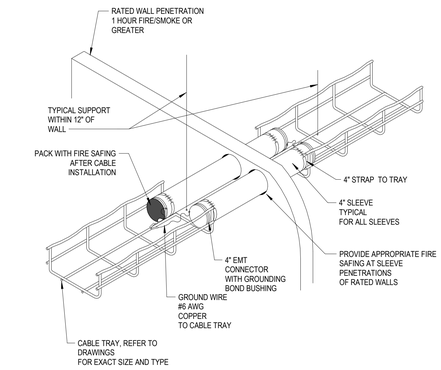
TPD HOWARD AVENUE ANNEX BUILDING

DAS RISER DIAGRAM

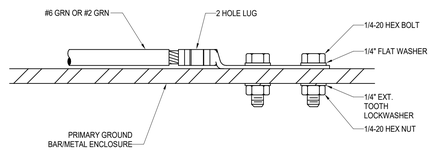
T621



1 CABLE TRAY
1" = 1'-0"



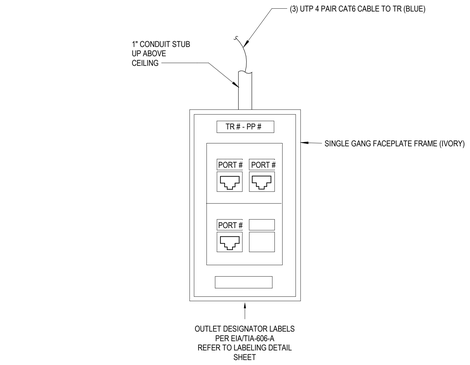
2 CABLE TRAY WALL PENETRATION
12" = 1'-0"



INSTALLATION NOTES:

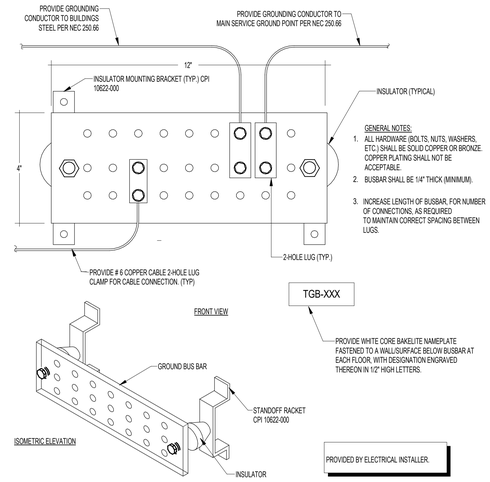
A. SELECT BOLT LENGTH TO PROVIDE A MINIMUM OF TWO EXPOSED THREADS.
B. BURNISH MOUNTING SURFACE TO REMOVE PAINT IN THE AREA OF LUG CONTACT.
C. APPLY ANTI-OXIDANT COMPOUND TO MATING SURFACE OF LUG AND WIPE CLEAN EXCESS COMPOUND.
D. USE SOLID COPPER WIRE AND MECHANICAL 2-HOLE LUG FOR ALL EXTERIOR GROUNDING.

3 GROUND BAR 2-LUG TERMINATION
1" = 1'-0"



F3

10 WALL PHONE OUTLET - VOICE/DATA
12" = 1'-0"

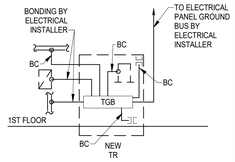


GENERAL NOTES:

1. ALL HARDWARE (BOLTS, NUTS, WASHERS, ETC.) SHALL BE SOLID COPPER OR BRONZE. COPPER PLATING SHALL NOT BE ACCEPTABLE.
2. BUSBAR SHALL BE 1/4" THICK (MINIMUM).
3. INCREASE LENGTH OF BUSBAR, FOR NUMBER OF CONNECTIONS, AS REQUIRED TO MAINTAIN CORRECT SPACING BETWEEN LUGS.

4 GROUND BUSBAR (TYPICAL FOR ALL TR'S)
12" = 1'-0"

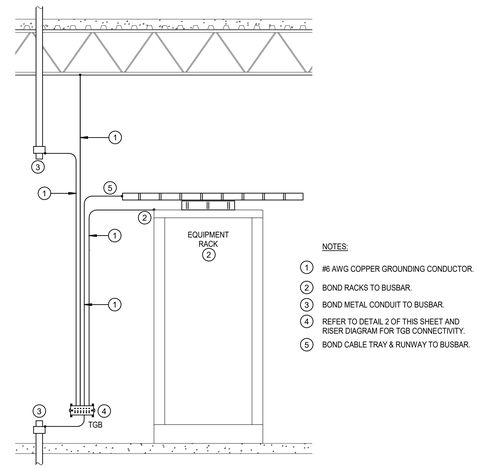
TBB LENGTH LINEAR M (FT)	TBB SIZE AWG
LESS THAN 4 (13)	6
4-6 (14-20)	4
6-8 (21-26)	3
8-10 (27-33)	2
10-13 (34-41)	1
13-16 (42-52)	1/0
16-20 (53-66)	2/0
GREATER THAN 20 (66)	3/0



ABBREVIATION SCHEDULE

BCT	BONDING CONDUCTOR FOR TELECOMMUNICATIONS.
TR	TELECOMMUNICATIONS ROOM.
TEF	TELECOMMUNICATIONS ENTRANCE FACILITY.
TER	TELECOMMUNICATIONS EQUIPMENT ROOM.
TBB	TELECOMMUNICATIONS BONDING BACKBONE.
BC	BONDING CONDUCTOR. SHALL BE #6 AWG. UNLESS OTHERWISE NOTED BY COMMUNICATIONS CABLING INSTALLER.
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR.
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR.
	RACK CONNECTION.
	ELECTRICAL PANELBOARD SERVING EQUIPMENT IN THIS COMM ROOM.
	CABLE BOND CONNECTIONS MADE W/U.L. LISTED BONDING CONNECTION FASTENERS.
	CABLE TRAY CONNECTION
	METAL FRAME OF BUILDING CONNECTION.
	CONDUIT/SLEEVES.

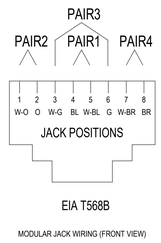
5 GROUNDING AND BONDING DIAGRAM
1" = 1'-0"



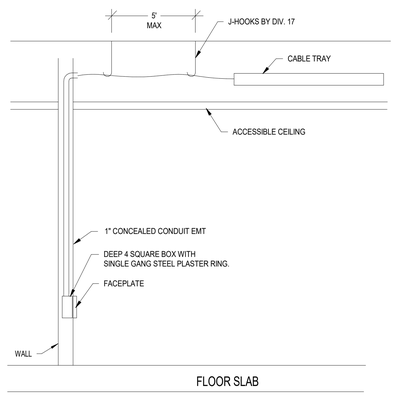
NOTES:

1. #6 AWG COPPER GROUNDING CONDUCTOR.
2. BOND RACKS TO BUSBAR.
3. BOND METAL CONDUIT TO BUSBAR.
4. REFER TO DETAIL 2 OF THIS SHEET AND RISER DIAGRAM FOR TGB CONNECTIVITY.
5. BOND CABLE TRAY & RUNWAY TO BUSBAR.

6 GROUND DETAIL (TYP. TELECOM ROOM)
1" = 1'-0"



7 MODULAR JACK WIRING DETAIL
12" = 1'-0"



8 TYPICAL FLUSH OUTLET MOUNTING (J-HOOK)
12" = 1'-0"

11 CABLE HANGER (SINGLE J-HOOK)
12" = 1'-0"

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C.o.T. NO. **24-C-00032**

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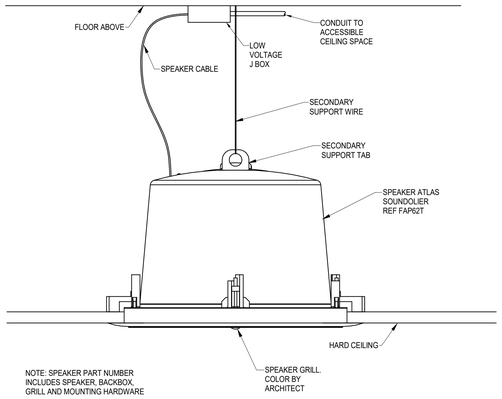
REVISIONS:

DRAWN BY: **KYLE JONES**
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TPD HOWARD AVENUE ANNEX BUILDING

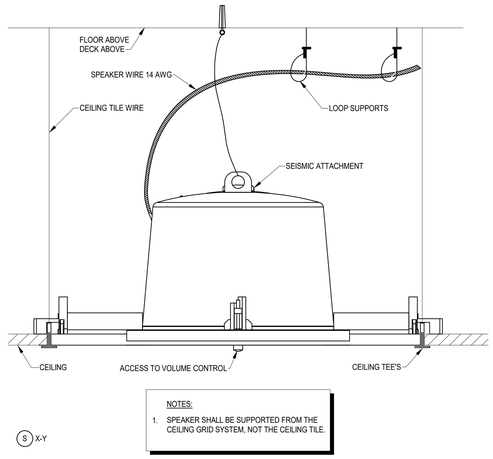
VOICE/DATA DETAILS

T711



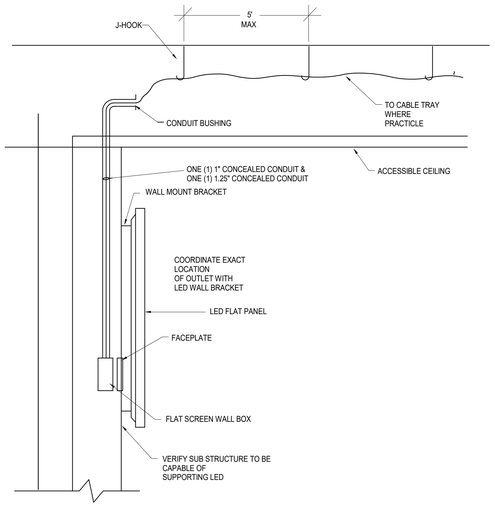
Ⓢ X

4 CEILING MOUNTED SPEAKER - HARD CEILING
1" = 1'-0"

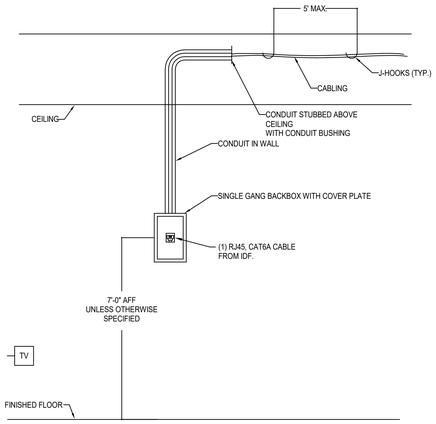


Ⓢ X-Y

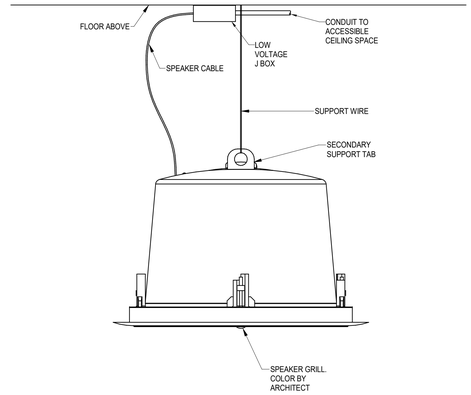
3 CEILING MOUNTED SPEAKER - ACT CEILING
1" = 1'-0"



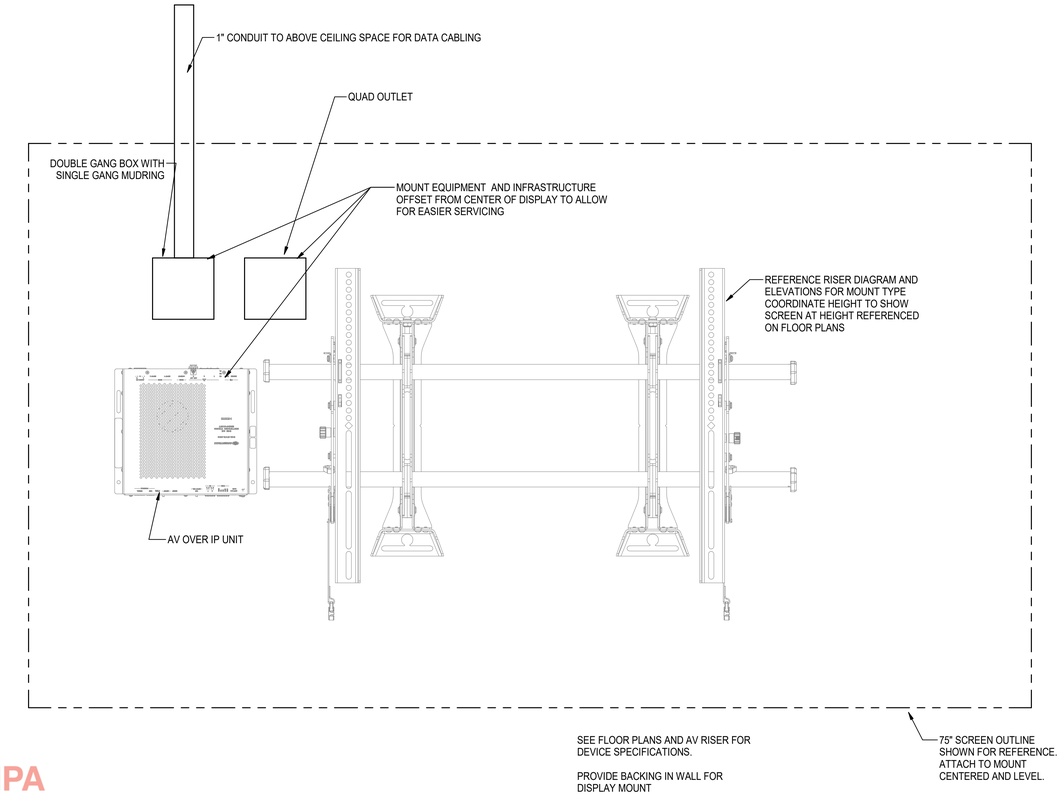
2 LED FLAT PANEL DISPLAY HANGING
1" = 1'-0"



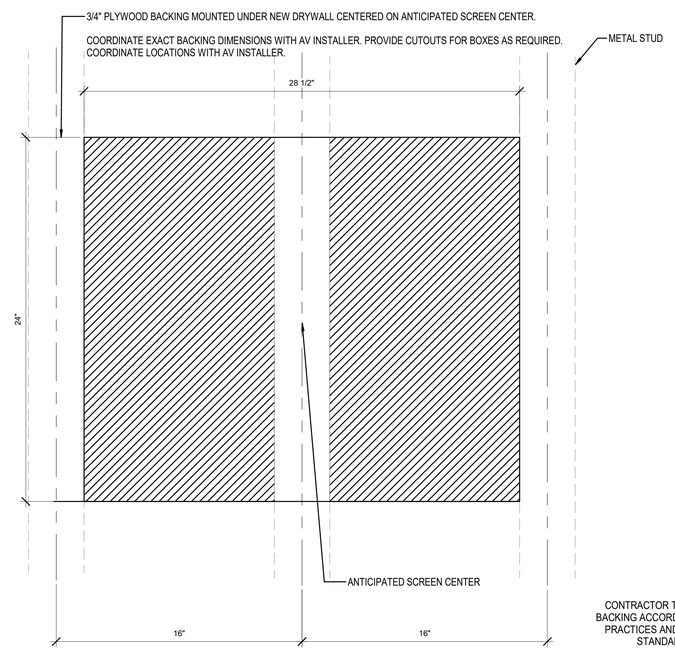
1 TYPICAL T.V. OUTLET
1" = 1'-0"



7 CEILING MOUNTED SPEAKER - OPEN CEILING
1" = 1'-0"



6 MONITOR MOUNTING DETAIL
3" = 1'-0"



5 MONITOR BACKING DETAIL
3" = 1'-0"

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C.o.T. NO. **24-C-00032**

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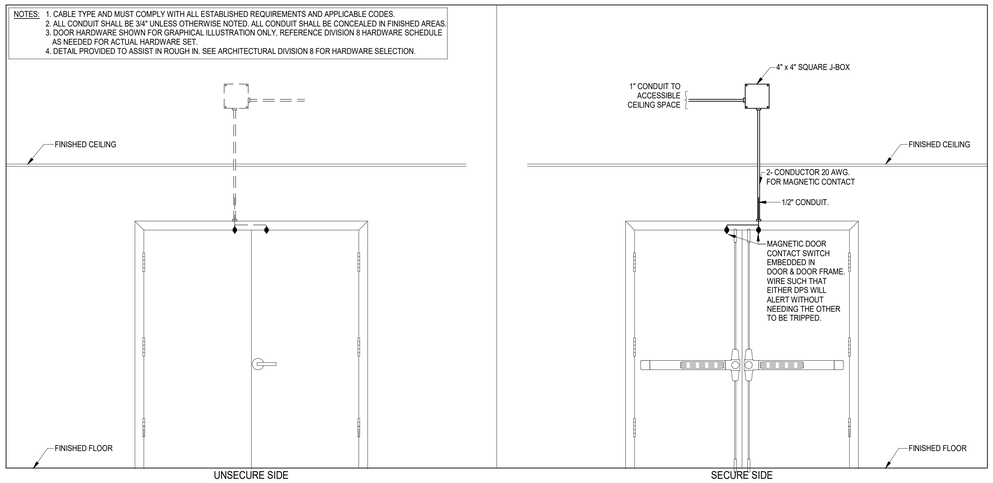
REVISIONS:

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CHECKED BY: **TAW NORTH**

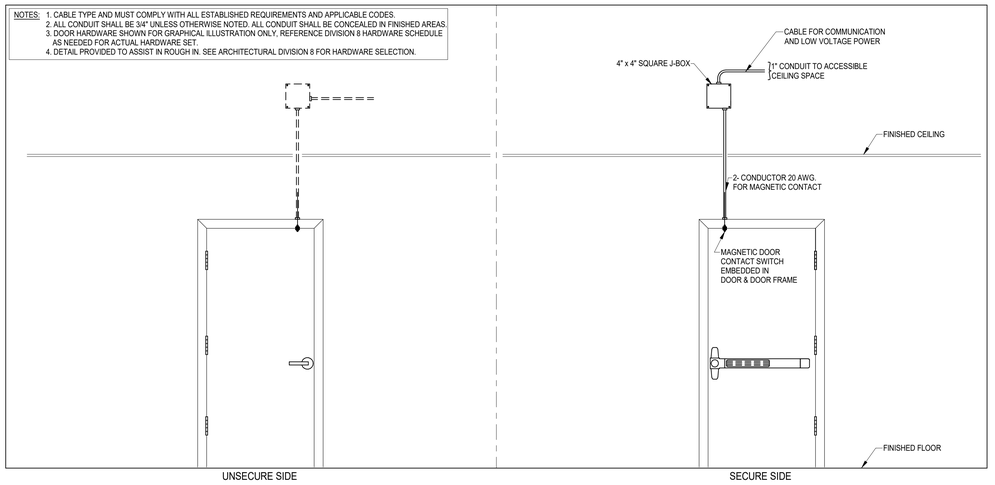
TPD HOWARD AVENUE ANNEX BUILDING

AUDIO/VISUAL DETAILS

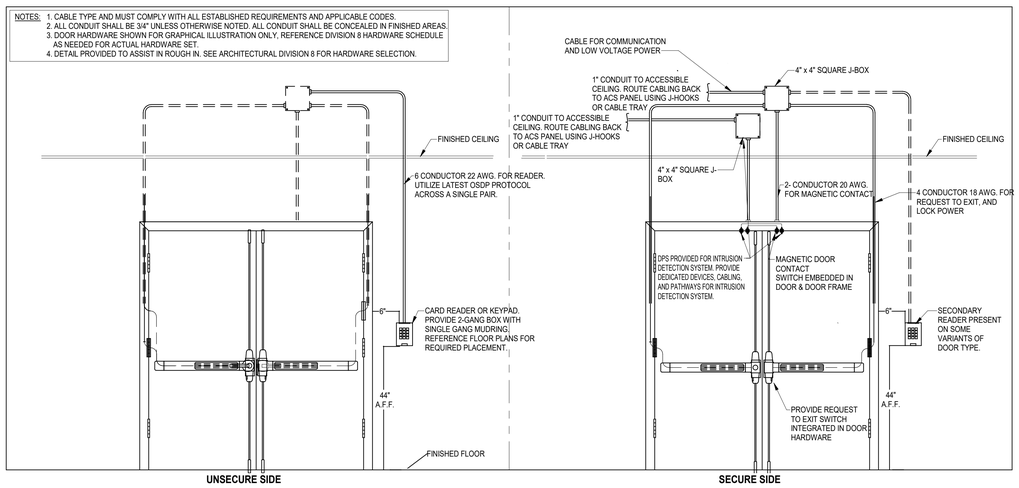
T721



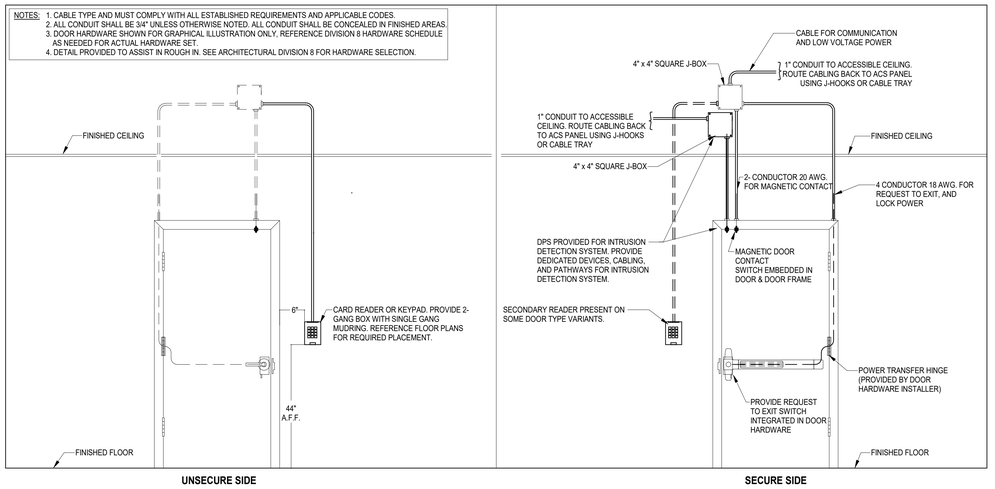
2 DOUBLE DOOR - DPS ONLY - TYPICAL M2
1" = 1'-0"



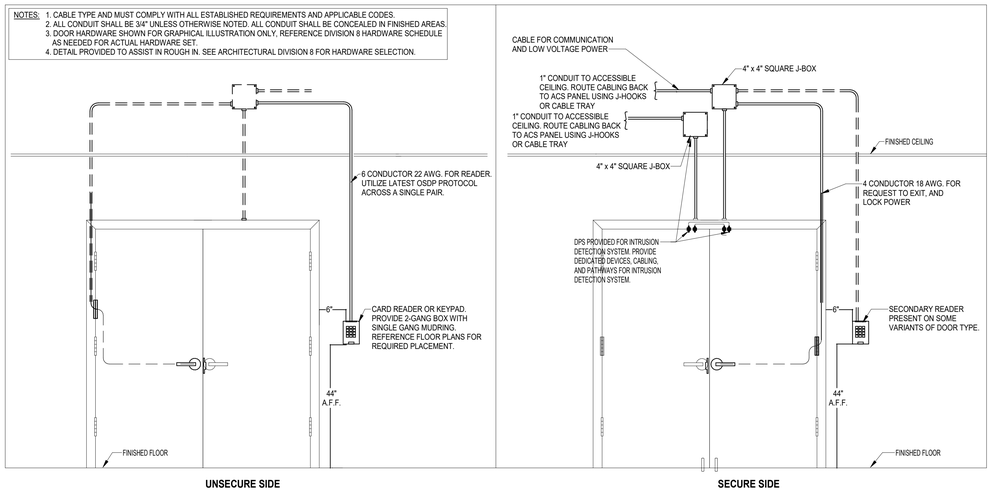
1 SINGLE DOOR - DPS ONLY - TYPICAL M1
1" = 1'-0"



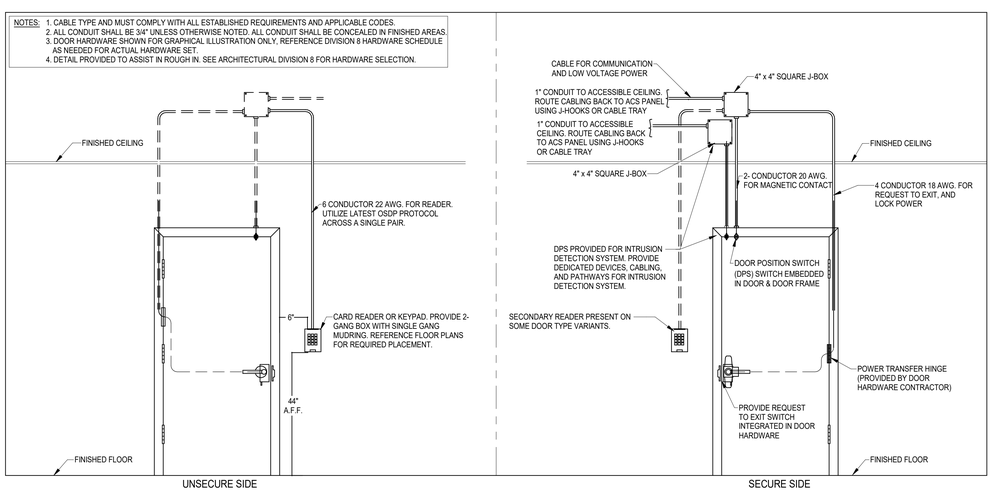
4 DOUBLE DOOR - ELECTRIC LATCH WITH DPS AND READER
1" = 1'-0"



3 SINGLE DOOR - ELECTRIC LATCH WITH DPS AND READER
1" = 1'-0"



6 DOUBLE DOOR - MORTISE LOCK WITH DPS
1" = 1'-0"



5 SINGLE DOOR - MORTISE LOCK WITH DPS
1" = 1'-0"

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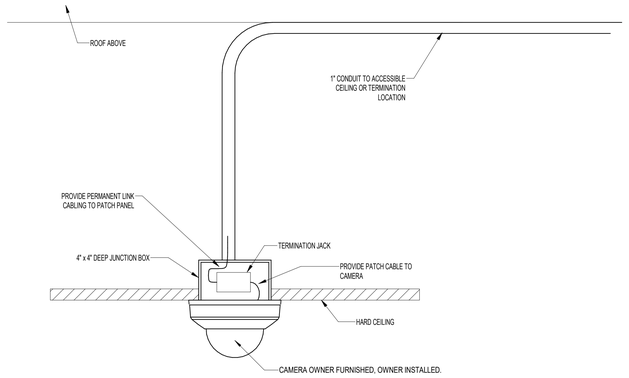
REVISIONS:

DRAWN BY: **KYLE JONES**
CHECKED BY: **TAW NORTH**

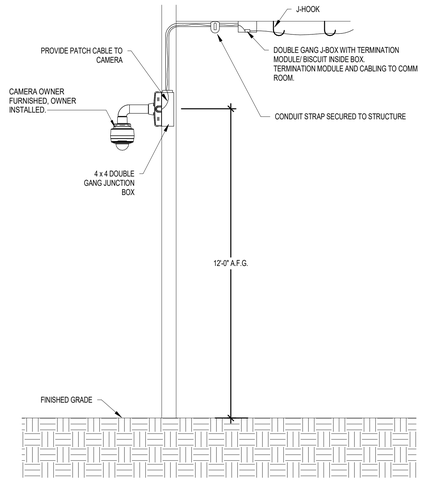
TPD HOWARD AVENUE ANNEX BUILDING

SECURITY DETAILS

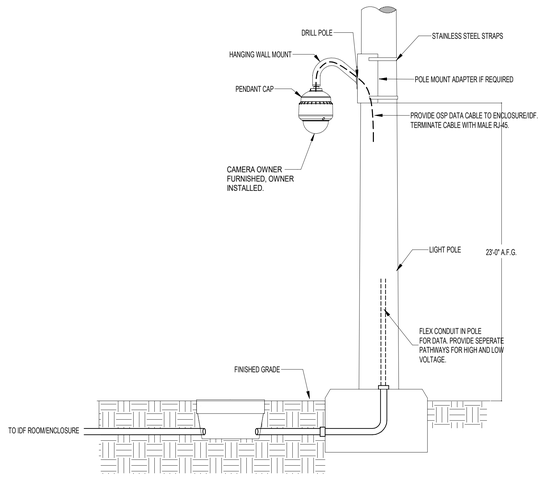
T731



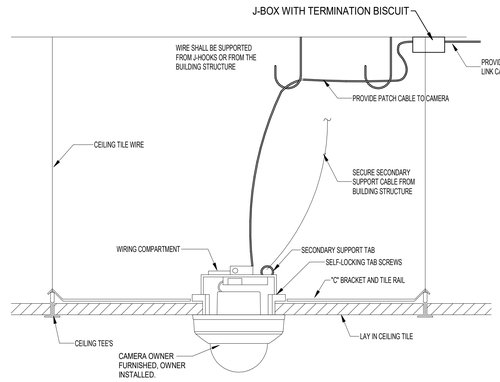
4 FIXED CEILING MOUNTED CAMERA - MOUNTED IN ACCESSIBLE HARD CEILING
12" = 1'-0"



3 EXTERIOR WALL MOUNTED FIXED CAMERA
12" = 1'-0"

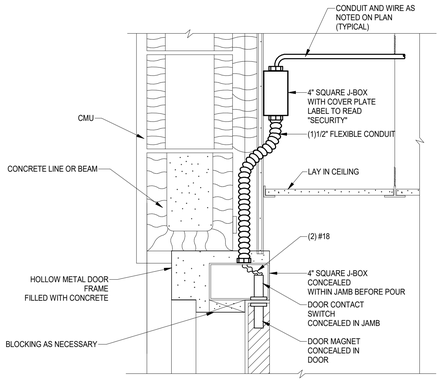


2 EXTERIOR POLE MOUNTED CAMERA
1" = 1'-0"

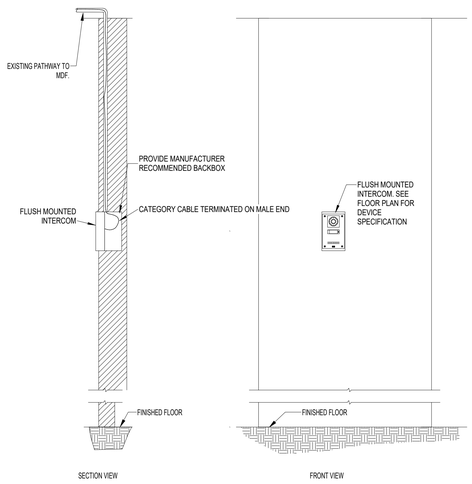


1 FIXED CEILING MOUNTED CAMERA - MOUNTED IN ACT
1" = 1'-0"

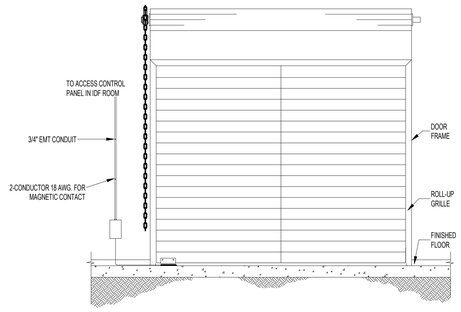
NOTE:
ARCHITECTURAL DETAILS OF WALL JAMB AND DOOR MAY VARY, BUT METHOD OF MOUNTING J-BOX, CONDUIT, SWITCH AND MAGNET IS TYPICAL THROUGHOUT.



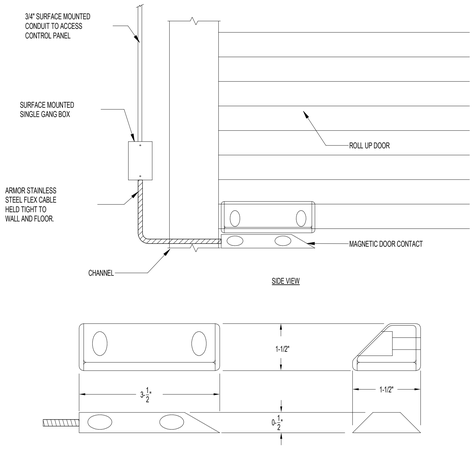
8 MAGNETIC DOOR CONTACT INSTALLATION
1" = 1'-0"



7 WALL MOUNTED INTERCOM
1" = 1'-0"



6 ROLL-UP DOOR WITH DPS - DOOR TYPE 'RO'
1" = 1'-0"



5 ROLL-UP DOOR - MAGNETIC DOOR POSITION SWITCH
1" = 1'-0"

CITY OF TAMPA
APPROVED SITE REVIEW ONLY, NOT VALID WITHOUT BUILDING PLANS
BLD-25-0517072
9/3/2025

City of Tampa
CONSTRUCTION SERVICES DIVISION
PLANS APPROVAL
BLD-25-0517072 9/3/2025
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This Stamp is void 6 months from date if not held to permit or under the jurisdiction of any City or State Codes
REVIEWED FOR CODE COMPLIANCE

Architects Design Group
333 North Knowles Avenue
Winter Park, Florida 32789
Howard & Associates, Architects, P.A.
3300 Henderson Blvd. Ste 206b
Tampa, FL 33609-2978

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Orlando, FL 32801
P 407.841.9050
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www.tlc-engineers.com
TLC No.:223047
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11/22/2024

VINCE MICHAEL NEU LICENSE No. 63723 STATE OF FLORIDA PROFESSIONAL ENGINEER
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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:
PERMIT DOCUMENTS

ISSUE DATE:
9/9/2024

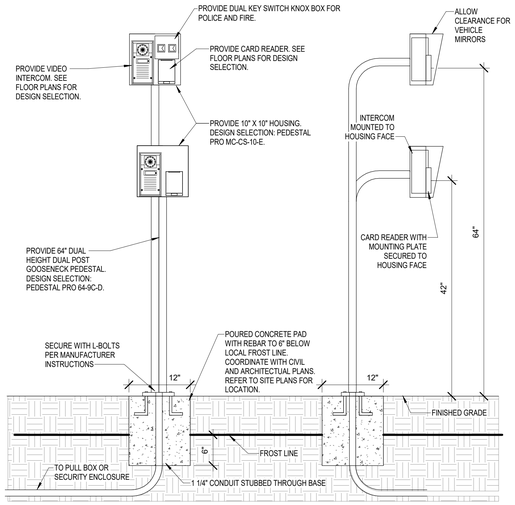
REVISIONS:

DRAWN BY: **Author**
CHECKED BY: **Checker**

TPD HOWARD AVENUE ANNEX BUILDING

SECURITY DETAILS

T732



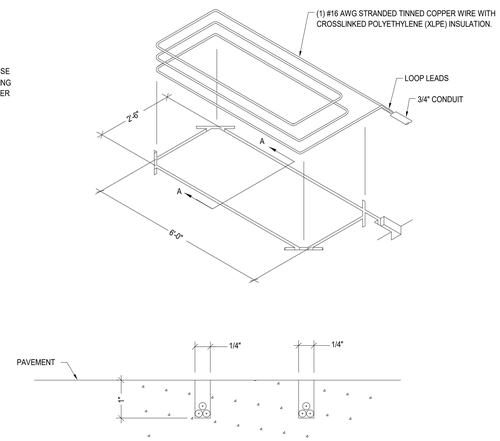
DRAWN AT 1"=1' SCALE

2 DUAL HEIGHT VEHICLE PEDESTAL
1" = 1'-0"

CAUTION:

DO NOT FRACTURE WIRE INSULATION.

LOOPS SHORTED TO GROUND WILL CAUSE DETECTOR MALFUNCTION. WHEN PLACING WIRE IN SLOT, DO NOT USE SCREWDRIVER OR OTHER SHARP TOOLS.



NOTES:

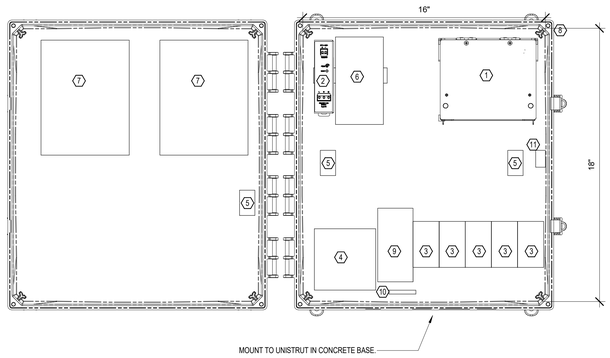
1. LOOP LEADS SHALL NOT EXCEED 100'
2. LOOP LEADS MUST HAVE (6) TWIST PER FOOT.
3. LOOP & LOOP LEADS MUST BE LOCATED AT LEAST 18" FROM ANY ELECTRICAL POWER SERVICE OR OR STEEL REINFORCING
4. LOOP LEADS MUST BE IN SEPARATE CONDUIT BETWEEN LOOP AND DETECTOR. THEY MUST NOT SHARE CONDUIT WITH OTHER WIRING OR LEADS FROM OTHER LOOPS.
5. VERY ALL MANUFACTURER WIRE RECOMMENDATIONS.
6. ALL WIRE SHALL BE CONTINUOUS WITHOUT SPLICING.
7. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH WORK.

TYPICAL LAYOUT NOTES:

1. SAW SLOT 1/4" WIDE 1" DEEP. MAKE RECTANGULAR
2. SHAPE TO SPECIFIC LOOP DIMENSIONS PLUS SLOT FOR LEAD CONDUIT.
3. GROUT WITH NO. 202 WEATHER BAN SEALANT. A PRODUCT OF THE 3M COMPANY" OR EQUIVALENT.

SECTION AA

1 LOOP DETECTOR AT VEHICLE GATES
12" = 1'-0"

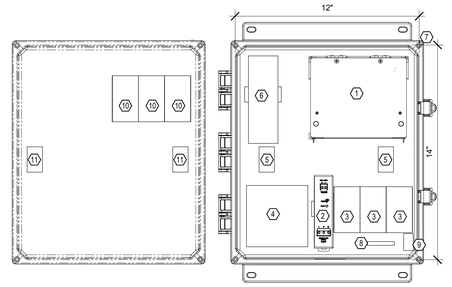


KEY NOTES

1. WALL MOUNT FIBER LIU FOR 6 STRAND SINGLEMODE FIBER TERMINATED WITH LC/UPC CONNECTORS. DESIGN SELECTION: CORNING SPH-01P WITH CCH-CS06-A9-P00RE OR APPROVED EQUAL.
2. DIN RAIL MOUNTED POWER SUPPLY. POWER SUPPLY BASED ON SWITCH SELECTION. DESIGN SELECTION: OFE.
3. DIN RAIL MOUNTED RJ-45 SURGE SUPRESSOR. PROVIDE 3' OF PATCH CABLE BETWEEN SURGE SUPRESSOR AND SWITCH. COIL CABLE BETWEEN D-RINGS. DESIGN SELECTION: SEE SPECIFICATION.
4. SURGE PROTECTED QUAD OUTLET BY ELECTRICAL CONTRACTOR.
5. WALL MOUNTED D-RING. DESIGN SELECTION: ICC ICCMSCMPT1 OR APPROVED EQUAL.
6. PROVIDE 8 PORT POE INDUSTRIAL ETHERNET SWITCH WITH WITH SFP MODULES CORRESPONDING WITH FIBER TERMINATION. DESIGN SELECTION: OFE.
7. PROVIDE 2 READER POE ACS BOARD. MOUNT TO ENCLOSURE DOOR. CABLE SHALL BE RUN CLEAR OF HINGE. SEE SPECIFICATION.
8. PROVIDE LOCKING 18"HX16"WX10"D NEMA 4X ENCLOSURE WITH 18"X16" BACKPLANE. SUPPORT USING UNISTRUT ON A CONCRETE FOUNDATION. GROMMET CONDUIT PENETRATIONS. DESIGN SELECTION: INTEGRA 161610HLL OR APPROVED EQUAL.
9. DIN RAIL MOUNTED 8 PAIR SURGE SUPRESSOR. PROVIDE 3' OF CABLE BETWEEN SURGE SUPRESSOR AND ACS BOARD. COIL CABLE BETWEEN D-RINGS. DESIGN SELECTION: DITEK DTK-8LVLPSCPLV WITH DTK-DRK OR APPROVED EQUAL.
10. PROVIDE GROUND BAR & GROUND ROD. CONNECT GROUND BAR TO GROUND ROD. LOCATE GROUND BAR IN PULLBOX.
11. PROVIDE TAMPER SWITCH. MOUNT TO SIDE OF ENCLOSURE. CONNECT TO ACS PANEL. DESIGN SELECTION: SECO-LARM SS-073Q

DRAWN AT 3"=1' SCALE

4 GATE SECURITY ELECTRONICS ENCLOSURE
3" = 1'-0"



KEY NOTES

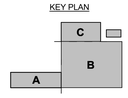
1. WALL MOUNT FIBER LIU FOR 6 STRAND SINGLEMODE FIBER TERMINATED WITH LC/UPC CONNECTORS. DESIGN SELECTION: CORNING SPH-01P WITH CCH-CS06-A9-P00RE OR APPROVED EQUAL.
2. DIN RAIL MOUNTED POWER SUPPLY. SELECTION BASED ON SWITCH SELECTION.
3. DIN RAIL MOUNTED SURGE SUPRESSORS. PROVIDE 3' OF PATCH CABLE BETWEEN SURGE SUPRESSOR AND SWITCH. COIL CABLE BETWEEN D-RINGS. PROVIDE QUANTITY OF SURGE PROTECTORS TO SUPPORT CAMERAS SHOWN ON SITE PLAN. DESIGN SELECTION: SEE SPECIFICATION.
4. SURGE PROTECTED QUAD OUTLET BY ELECTRICAL CONTRACTOR.
5. WALL MOUNTED D-RING. DESIGN SELECTION: ICC ICCMSCMPT1 OR APPROVED EQUAL.
6. PROVIDE INDUSTRIAL ETHERNET SWITCH WITH POE PORTS CORRESPONDING TO THE CAMERA QUANITY & SFP MODULES CORRESPONDING WITH FIBER TERMINATION. DESIGN SELECTION: OFE.
7. PROVIDE LOCKING 16"HX14"WX6"D NEMA 4X ENCLOSURE WITH 14"X12" BACKPLANE. SUPPORT USING UNISTRUT. PROVIDE GROMMETED CONDUIT PENETRATIONS AS REQUIRED. DESIGN SELECTION: HUBBEL BN4161406CHQT OR APPROVED EQUAL.
8. PROVIDE GROUND BAR & GROUND ROD. CONNECT GROUND BAR TO GROUND ROD. LOCATE GROUND ROD IN PULLBOX.
9. PROVIDE TAMPER SWITCH. MOUNT TO SIDE OF ENCLOSURE. CONNECT TO ACS PANEL. DESIGN SELECTION: SECO-LARM SS-073Q
10. ADDITIONAL SURGE PROTECTORS MAY BE PROVIDED ON DOOR OF ENCLOSURE IF CAT 6 CABLE IS ROUTED AND SECURED SUCH THAT OPENING AND CLOSING THE DOOR DOES NOT PINCH THE CABLE OR EXCEED ITS BEND RADIUS. USE ZIPTIES TO SECURE CABLE.
11. PROVIDE D-RING AS REQUIRED. DESIGN SELECTION ICC ICCMSCMPT1 OR APPROVED EQUAL.

DRAWN AT 3"=1' SCALE

3 CAMERA ELECTRONICS ENCLOSURE
3" = 1'-0"

CITY OF TAMPA
APPROVED SITE REVIEW ONLY, NOT VALID WITHOUT BUILDING PLANS
BLD-25-0517072
9/3/2025

KEY PLAN

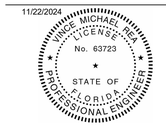


City of Tampa
CONSTRUCTION SERVICES DIVISION
PLANS APPROVAL
BLD-25-0517072 9/3/2025
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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:
PERMIT DOCUMENTS

ISSUE DATE:
9/9/2024

REVISIONS:

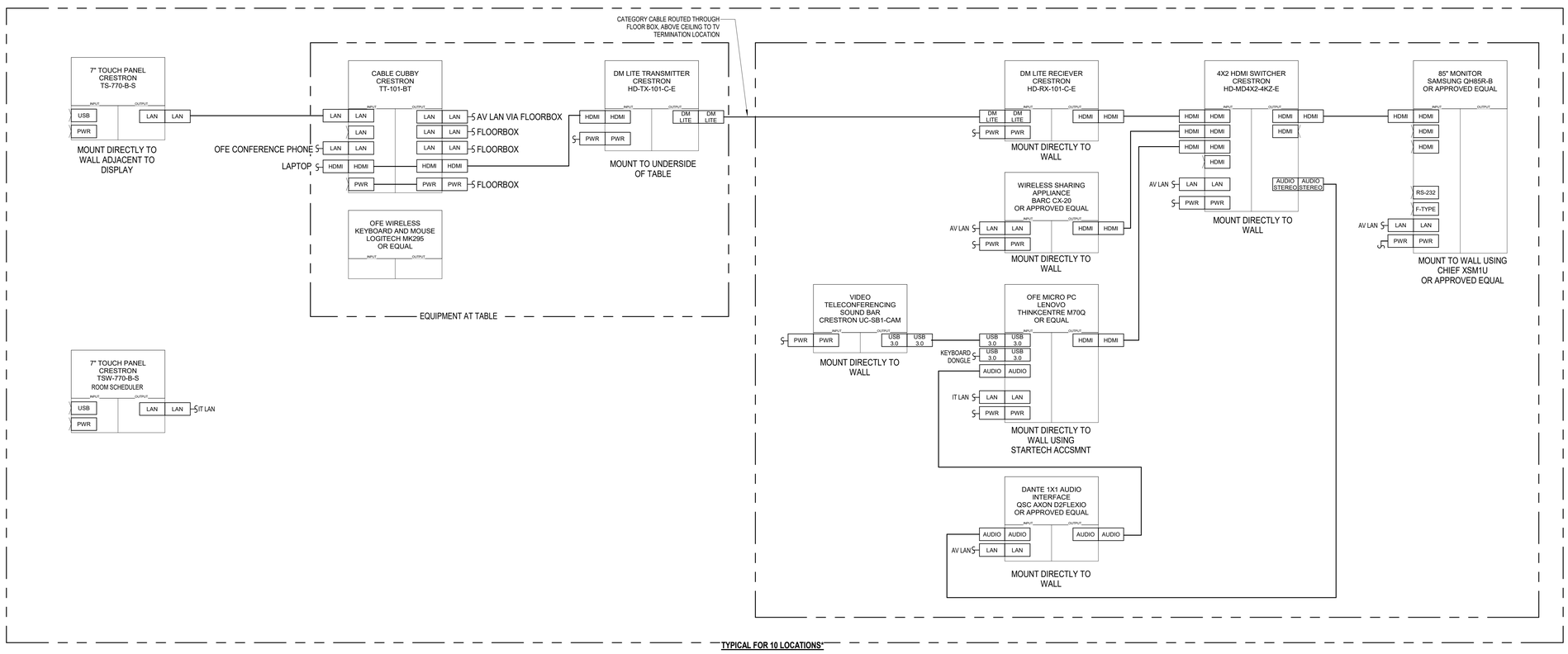
DRAWN BY: **Author**
CHECKED BY: **Checker**

TPD HOWARD AVENUE ANNEX BUILDING

SECURITY DETAILS

TRUE PROJECT NORTH:

T733



1 AV RISER DIAGRAM - MEDIUM CONFERENCE ROOM
1/2" = 1'-0"

CITY OF TAMPA
APPROVAL REQUIRED
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BUILDING PLANS
BLD-25-0517072
9/3/2025

City of Tampa
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BLD-25-0517072 9/3/2025
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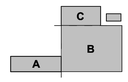
DRAWN BY: **Author**
CHECKED BY: **Checker**

TPD HOWARD AVENUE ANNEX BUILDING

AV RISER DIAGRAM

TRUE PROJECT NORTH:

KEY PLAN



T741

NETWORK CABLE COUNTS

TL_Data Rack ID	Description	T_Data Cables	T_Coax Cables	Family and Type
TELE 152B	CCTV CAMERA LOCATION	48	0	<varies>
TELE 152B	DATA OUTLET FOR BAS	6	0	TLC_T_VD_Telecom Outlet_Wall_Vertical: S2 BAS
TELE 152B	POINT OF USE DATA OUTLET	201	0	<varies>
TELE 152B	TELECOMMUNICATIONS OUTLET, CEILING MOUNTED	6	0	TLC_T_VD_Telecom Outlet_Ceiling: S2
TELE 152B	WIRELESS ACCESS POINT	38	0	TLC_T_VD_Telecom Outlet_WAP_Ceiling: STANDARD WAP NO ENCLOSURE
		299	0	
RACK 171	CCTV CAMERA LOCATION	14	0	<varies>
RACK 171	DATA OUTLET FOR BAS	4	0	TLC_T_VD_Telecom Outlet_Wall_Vertical: S2 BAS
RACK 171	POINT OF USE DATA OUTLET	14	0	TLC_T_VD_Telecom Outlet_Wall_Vertical: F2
RACK 171	WIRELESS ACCESS POINT	4	0	TLC_T_VD_Telecom Outlet_WAP_Ceiling: STANDARD WAP NO ENCLOSURE
		36	0	
GATE ENCLOSURE	CCTV CAMERA LOCATION	2	0	TLC_T_SEC_PTZ Camera: AXIS_F/X 5 - Pole Mount
		2	0	
Grand total: 197		337	0	

NETWORK COUNTS SHALL BE VERIFIED BY CONTRACTOR PRIOR TO BID.
SCHEDULE SHALL NOT BE USED IN LIEU OF TAKE OFFS.

FLAT PANEL DISPLAY SCHEDULE

T_Display ID	ROOM OR LOCATION	Type Comments	DISPLAY WALL MOUNT
TV-164	BREAK AREA 164	43" DIAG.	M : TILTING WALL MOUNT
SB-140	CONFFERENCE/TRAINING ROM 140	86" DIAG.	M : TILTING WALL MOUNT
TV-110	CENTRAL BREAK ROOM 110	55" DIAG	M : TILTING WALL MOUNT
TV-149	PHOTO RM.A/ALS 149A	55" DIAG	M : TILTING WALL MOUNT
TV-149B	PHOTO RM.B/ALS 149B	55" DIAG	M : TILTING WALL MOUNT

SECURITY CAMERA SCHEDULE

CAMERA No.	ELEVATION FROM LEVEL	TERMINATION POINT	DESCRIPTION	MODEL	COMMENTS
C001	9' - 0"	RACK 171	CCTV CAMERA LOCATION	OFOI	
C002	9' - 0"	RACK 171	CCTV CAMERA LOCATION	OFOI	
C003	9' - 0"	RACK 171	CCTV CAMERA LOCATION	OFOI	
C004	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C005	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C006	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C007	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C008	9' - 0"	RACK 171	CCTV CAMERA LOCATION	OFOI	
C009	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C010	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C011	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C012	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C013	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C014	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C015	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C016	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C017	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C018	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C019	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C020	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C021	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C022	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C023	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C024	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C025	9' - 0"	RACK 171	CCTV CAMERA LOCATION	OFOI	
C026	0' - 0"	GATE ENCLOSURE	CCTV CAMERA LOCATION	OFOI	
C027	0' - 0"	GATE ENCLOSURE	CCTV CAMERA LOCATION	OFOI	
C101	9' - 0"	RACK 171	CCTV CAMERA LOCATION	OFOI	
C102	9' - 0"	RACK 171	CCTV CAMERA LOCATION	OFOI	
C103	9' - 0"	RACK 171	CCTV CAMERA LOCATION	OFOI	
C104	9' - 0"	RACK 171	CCTV CAMERA LOCATION	OFOI	
C105	9' - 0"	RACK 171	CCTV CAMERA LOCATION	OFOI	
C106	9' - 0"	RACK 171	CCTV CAMERA LOCATION	OFOI	
C107	9' - 0"	RACK 171	CCTV CAMERA LOCATION	OFOI	
C108	9' - 0"	RACK 171	CCTV CAMERA LOCATION	OFOI	
C109	9' - 0"	RACK 171	CCTV CAMERA LOCATION	OFOI	
C110	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C111	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C112	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C113	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C114	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
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C125	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C126	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C127	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C128	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C129	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C130	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C131	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C132	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C133	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C134	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C135	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C136	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	
C137	9' - 0"	TELE 152B	CCTV CAMERA LOCATION	OFOI	

CITY OF TAMPA
APPROVED SITE REVIEW ONLY,
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BLD-25-0517072
9/3/2025

City of Tampa
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PLANS APPROVAL
BLD-25-0517072 9/3/2025
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Howard & Associates, Architects, P.A.
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11/22/2024

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STATE OF FLORIDA
PROFESSIONAL ENGINEER

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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:
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ISSUE DATE:
9/9/2024

REVISIONS:

DRAWN BY: **KYLE JONES**
CHECKED BY: **TAW NORTH**

TPD HOWARD AVENUE ANNEX BUILDING

TECHNOLOGY SCHEDULES

T801

TPD HOWARD AVENUE ANNEX BUILDING

PERMIT DOCUMENTS

Issue Date: **9/9/2024**
ADG Project No.: **1087**
City of Tampa Project No.: **24 - C - 00032**

City of Tampa
CONSTRUCTION SERVICES DIVISION
FINAL APPROVAL
BLD-25-0517072 9/3/2025
THIS CARD MUST BE POSTED ON JOB SITE
alterations without written approval from the City of Tampa Construction Services Division.
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REVIEWED FOR CODE COMPLIANCE

Revisions:

#	Description	Date
1	SITE COMMENTS	6/6/2025
2	PERMIT COMMENTS	8/18/2025

Owner

City of Tampa
306 E Jackson St. 4th Floor North
Tampa, FL 33602
p: (813) 274 - 5677

Design Coordinator

Kokolakis Contracting Company
202 E.Center St.
Tarpon Springs, FL 34689
p: (727) 942 - 2211

Consultants

CIVIL
Jones Edmunds
324 S.Hyde Park Ave., STE 250
Tampa, FL 33606
p: (813) 258 - 0703

LANDSCAPE
Anderson Lesniak Limited, Inc.
4921 S.West Shore Blvd.
Tampa, FL 33611
p: (813) 831 - 9595

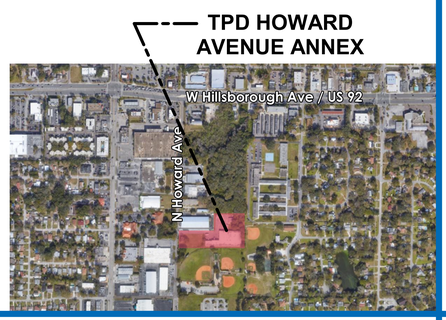
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M.E.P. FP.
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TECHNOLOGY
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Project Location

5005 N Howard Ave.
Tampa, FL 33603





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Ian Reeves

STATE OF FLORIDA
IAN A. REEVES
REGISTERED ARCHITECT

THE FIRE SUPPRESSION ENGINEERING DOCUMENTS AND BOOK SPECIFICATIONS ARE PREPARED EXCLUSIVELY FOR THIS PROJECT AND ARE IN COMPLIANCE WITH THE FOLLOWING STANDARD. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR PREPARING WORKING PLANS AND HYDRAULIC CALCULATIONS AS DEFINED BY 2016 ED. NFPA 13. THE WORKING PLANS AND HYDRAULIC CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL. THE APPROVED SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR FINAL APPROVAL AND BUILDING PERMIT.

61G15-32.003 COMMON REQUIREMENTS TO ALL FIRE PROTECTION ENGINEERING DOCUMENTS.

(1) THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS SHALL PROVIDE THE ENGINEERING REQUIREMENTS TO BE USED IN THE PREPARATION OF THE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS AND TO INDICATE THE NATURE AND SCOPE OF THE WORK, AND TO DESCRIBE, DETAIL, DIMENSION, LABEL AND DEFINE THE FIRE PROTECTION COMPONENTS, SYSTEM(S), MATERIALS, ASSEMBLIES, EQUIPMENT AND ITS STRUCTURAL AND UTILITY SUPPORT SYSTEM(S), INSOFAR AS THEY INVOLVE THE SAFEGUARDING OF LIFE, HEALTH OR PROPERTY.
(2) THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS SHALL SPECIFY THE APPLICABLE REQUIREMENTS FOR THE ACCEPTANCE TESTING OF THE FIRE PROTECTION SYSTEM AND COMPONENTS, WHICH SHALL BE BASED UPON APPLICABLE CODES AND STANDARDS, WHERE AVAILABLE.
(3) THE OCCUPANCY OF THE AREA OR DESCRIPTION OF A SPECIFIC HAZARD BEING PROTECTED BY THE FIRE PROTECTION SYSTEM(S) SHALL BE SHOWN ON THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS.
(4) THE APPLICABLE CODE AND STANDARD TO BE USED IN THE PREPARATION OF THE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS SHALL BE SHOWN ON THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS. WHEN CODES AND STANDARDS ARE NOT AVAILABLE OR APPLICABLE, AND SAID LAYOUT DOCUMENTS ARE TO BE BASED ON ENGINEERING JUDGMENT, ANY REASONS AND ASSUMPTIONS MADE TO DEVELOP THE FIRE PROTECTION CONCEPT SHALL BE IDENTIFIED ON THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS.
(5) STRUCTURAL SUPPORT AND STRUCTURAL OPENINGS REQUIRED BY THE FIRE PROTECTION SYSTEM SHALL BE SHOWN ON THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS.
(6) WHEN LAYOUT DOCUMENTS CONTAIN MATERIAL DEVIATION FROM THE ENGINEER OF RECORD'S FIRE PROTECTION SYSTEM ENGINEERING DOCUMENT, SUCH LAYOUT DOCUMENTS ARE NOT COMPLIANT UNLESS THEY ARE ACCOMPANIED BY REVISED ENGINEERING DOCUMENTS MADE AND SEALED BY THE ENGINEER OF RECORD FOR THE FIRE PROTECTION SYSTEM.
(7) REQUIREMENTS FOR ACTIVATION CONTROL SYSTEMS, SEQUENCE, OPERATING PARAMETERS, INTERLOCKS, SAFETY RELATED DEVICES, INDICATORS AND ALARMS, SHALL BE SHOWN ON THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS, UNLESS SHOWN ON OTHER RELATED DOCUMENTS.
(8) ANY INFORMATION DEEMED APPROPRIATE BY THE ENGINEER OF RECORD TO ASSIST THE AUTHORITY HAVING JURISDICTION IN UNDERSTANDING THE OWNER'S INTENDED USE AND PROPOSED PROTECTION OF THE BUILDING OR FACILITY AND TO PROVIDE SUFFICIENT DIRECTION TO THE INSTALLATION CONTRACTOR OR OTHER INTERESTED PARTIES REGARDING THE LAYOUT OF THE SYSTEM(S), SHALL BE INCLUDED IN THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS.
SPECIFIC AUTHORITY 471.008, 471.033(2), FS
LAW IMPLEMENTED 471.005(7), 471.033(2), FS
HISTORY–NEW 5-19-93, FORMERLY 21H-32.003, AMENDED 4-2-2000, 6-26-01

61G15-32.004 DESIGN OF WATER BASED FIRE PROTECTION SYSTEMS.

(1) WATER BASED FIRE PROTECTION SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO, AUTOMATIC SPRINKLER SYSTEMS OF WET, DRY, FINE WATER SPRAY (MIST), MANUAL, AND DELUGE VALVE CONTROLLED TYPES, PUMPING SYSTEMS, STANDPIPES, FIRE WATER MAINS AND DEDICATED FIRE PROTECTION WATER SOURCES.
(2) TO ENSURE MINIMUM DESIGN QUALITY IN FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS, SAID DOCUMENTS SHALL INCLUDE AS A MINIMUM THE FOLLOWING INFORMATION WHEN APPLICABLE:
(A) THE POINT OF SERVICE FOR THE FIRE PROTECTION WATER SUPPLY AS DEFINED BY 633.021(18) F.S.
(B) APPLICABLE NFPA STANDARD TO BE APPLIED, OR IN THE CASE WHERE NO SUCH STANDARD EXISTS, THE ENGINEERING STUDY, JUDGMENTS, AND/OR PERFORMANCE BASED ANALYSIS AND CONCLUSIONS.
(C) CLASSIFICATION OF HAZARD OCCUPANCY FOR EACH ROOM OR AREA.
(D) DESIGN APPROACH, WHICH INCLUDES SYSTEM TYPE, DENSITIES, DEVICE TEMPERATURE RATING, AND SPACING FOR EACH SEPARATE HAZARD OCCUPANCY.
(E) CHARACTERISTICS OF WATER SUPPLY TO BE USED, SUCH AS MAIN SIZE AND LOCATION, WHETHER IT IS DEAD-END OR CIRCULATING, AND IF DEAD-END, THE DISTANCE TO THE NEAREST CIRCULATING MAIN, AS WELL AS ITS MINIMUM DURATION AND RELIABILITY FOR THE MOST HYDRAULICALLY DEMANDING DESIGN AREA.
(F) WHEN PRIVATE OR PUBLIC WATER SUPPLIES ARE USED, THE FLOW TEST DATA, INCLUDING DATE AND TIME OF TEST, WHO CONDUCTED TEST OR SUPPLIED INFORMATION, TEST ELEVATION, STATIC GAUGE PRESSURE AT NO FLOW, FLOW RATE WITH RESIDUAL GAUGE PRESSURE, HYDRANT FLOW COEFFICIENT, AND LOCATION OF TEST IN RELATION TO THE HYDRAULIC POINT OF SERVICE.
(G) VALVING AND ALARM REQUIREMENTS TO MINIMIZE POTENTIAL FOR IMPAIRMENTS AND UNRECOGNIZED FLOW OF WATER.
(H) MICROBIAL INDUCED CORROSION (MIC). THE ENGINEER OF RECORD SHALL MAKE REASONABLE EFFORTS TO IDENTIFY WATER SUPPLIES THAT COULD LEAD TO MICROBIAL INDUCED CORROSION (MIC). SUCH EFFORTS MAY CONSIST OF DISCUSSIONS WITH THE LOCAL WATER PURVEYOR AND/OR FIRE OFFICIAL, FAMILIARITY WITH CONDITIONS IN THE LOCAL AREA, OR LABORATORY TESTING OF WATER SUPPLIES. WHEN CONDITIONS ARE FOUND THAT MAY RESULT IN MIC CONTAMINATION OF THE FIRE PROTECTION PIPING, THE ENGINEER SHALL DESIGN CORRECTIVE MEASURES.
(I) BACKFLOW PREVENTION AND METERING SPECIFICATIONS AND DETAILS TO MEET LOCAL WATER PURVEYOR REQUIREMENTS INCLUDING MAXIMUM ALLOWABLE PRESSURE DROP.
(J) QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL YARD AND INTERIOR FIRE PROTECTION COMPONENTS.
(3) CONTRACTOR SUBMITTALS WHICH DEVIATE FROM THE ABOVE MINIMUM DESIGN PARAMETERS SHALL BE CONSIDERED MATERIAL DEVIATIONS AND REQUIRE SUPPLEMENTAL ENGINEERING APPROVAL AND DOCUMENTATION.
(4) IN THE EVENT THE ENGINEER OF RECORD PROVIDES MORE INFORMATION AND DIRECTION THAN IS ESTABLISHED ABOVE, HE OR SHE SHALL BE HELD RESPONSIBLE FOR THE TECHNICAL ACCURACY OF THE WORK IN ACCORDANCE WITH APPLICABLE CODES, STANDARDS, AND SOUND ENGINEERING PRINCIPLES.
SPECIFIC AUTHORITY 471.008, 471.033(2), FS
LAW IMPLEMENTED 471.005(7), 471.033(2), FS
HISTORY–NEW 5-19-93, FORMERLY 21H-32.004, AMENDED 4-2-2000, 6-26-01, 7-12-05

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
	SPRINKLER BRANCH PIPING
	FEED-MAIN PIPING
	UNDERGROUND FIRE MAIN PIPING
	SPRINKLER OR STANDPIPE PIPE RISER LOCATION
	SPRINKLER PIPING UP
	SPRINKLER PIPING DOWN
	VICTAULIC TESTMASTER II #720 TEST AND DRAIN WITH SPLASH BLOCK
	HYDRAULIC REFERENCE NODE
	REFERENCE NOTE CALLOUT
	POINT OF CONNECTION
	POINT OF SERVICE FOR THE FIRE PROTECTION WATER SUPPLY
	CONTINUATION
	BACKFLOW PREVENTOR
	FIRE HYDRANT
	FREE STANDING POST INDICATOR VALVE W/TAMPER SWITCH
FDC	FIRE DEPARTMENT CONNECTION WITH (2) 2-1/2" HOSE VALVE CONNECTIONS
	CHECK VALVE
FDV	STANDPIPE WITH FIRE DEPARTMENT VALVE
	DRY-VALVE LOCATION
	CONTROL VALVE W/TAMPER SWITCH
	BUTTERFLY VALVE W/TAMPER SWITCH IN VERTICAL
	BUTTERFLY VALVE W/TAMPER SWITCH
	FLOW SWITCH
	HOSE VALVE CABINET
F.C.	FLUSHING CONNECTION

FIRE PROTECTION ABBREVIATIONS

ABOVE FINISHED FLOOR	AFF
BELOW FINISHED GRADE	BFG
BELOW FINISHED FLOOR	BFF
CONTINUATION	CONT
CONNECTION	CONN
DIAMETER	DIA
DOWN	DN
UP	UP
NOT IN CONTRACT	NIC
NOT TO SCALE	NTS
NO SPRINKLER	N/A
SQUARE FEET	SF
POINT OF CONNECTION	P.O.C.
UNLESS NOTED OTHERWISE	U.N.O.
BOTTOM OF RISER	B.O.R.
TOP OF RISER	T.O.R.
FLUSHING CONNECTION	FC

FIRE SPRINKLER HEAD LEGEND

SYMBOL	ORIFICE	TEMP	RESPONSE	K-FAC	FINISH	MODEL	STYLE	SIN #	MFG.
●	1/2"	155°	QUICK	5.6	SEE ARCH. PLANS	M	FLAT PLATE CONCEALED PENDENT	VK462	VIKING
○	1/2"	155°	QUICK	5.6	BRASS	M	UPRIGHT	VK300	VIKING
⊠	1/2"	155°	QUICK	5.6	BRASS	M	UPRIGHT WITH GUARD	VK300	VIKING
◀	1/2"	155°	QUICK	8.0	SEE ARCH. PLANS	M	HORIZONTAL SIDEWALL	VK305	VIKING

FIRE PROTECTION DATA

OCCUPANCY CLASSIFICATIONS AS NOTED ON PLANS

OCCUPANCY CLASSIFICATION: (UNLESS NOTED OTHERWISE)	LIGHT HAZARD
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	.10 GPM/SQ. FT.
HYDRAULIC REMOTE AREA:	1,500 SQ. FT.
SPRINKLER ORIFICE SIZE:	1/2"
DURATION OF SUPPLY:	30 MIN.
MAXIMUM COVERAGE/SPRINKLER HEAD:	225 SQ. FT.
HOSE STREAM ALLOWANCE:	100 GPM
OCCUPANCY CLASSIFICATION: OH-1	ORDINARY HAZARD GROUP I
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	.15 GPM/SQ. FT.
HYDRAULIC REMOTE AREA:	1,500 SQ. FT.
SPRINKLER ORIFICE SIZE:	1/2"
DURATION OF SUPPLY:	60 - 90 MIN.
MAXIMUM COVERAGE/SPRINKLER HEAD:	130 SQ. FT.
HOSE STREAM ALLOWANCE:	250 GPM
OCCUPANCY CLASSIFICATION: OH-2	ORDINARY HAZARD GROUP II
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	.20 GPM/SQ. FT.
HYDRAULIC REMOTE AREA:	1,500 SQ. FT.
SPRINKLER ORIFICE SIZE:	1/2"
DURATION OF SUPPLY:	60 - 90 MIN.
MAXIMUM COVERAGE/SPRINKLER HEAD:	130 SQ. FT.
HOSE STREAM ALLOWANCE:	250 GPM

DESIGN CRITERIA:

THE FOLLOWING PUBLICATIONS SHALL BE USED AS A REFERENCE FOR DESIGN OF THE FIRE SUPPRESSION SYSTEM ON THIS PROJECT.

1. NFPA 13 (2016 ED.), INSTALLATION OF SPRINKLER SYSTEMS
2. FLORIDA BUILDING CODE 7th EDITION (2020)
3. FLORIDA FIRE PREVENTION CODE 7th EDITION (2020)

FLOW TEST INFORMATION:

FLOW TEST CONDUCTED BY:	City of Tampa
LOCATION:	5005 N Howard Ave. Tampa, FL 33603
DATE / TIME:	03/06/24 / 10:19AM
STATIC:	66 PSI
RESIDUAL:	60 PSI
FLOW:	1,138 GPM

FLOW TEST DATA:

THE FIRE SPRINKLER CONTRACTOR SHALL PERFORM A TWO HYDRANT WATER FLOW TEST TO DETERMINE THE STATIC, RESIDUAL, AND FLOW. THE FLOW TEST SHALL BE PERFORMED DURING THE PEAK TIME OF THE DAY AND WITNESSED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

WATER SUPPLY NOTES:

1. THE FIRE SPRINKLER CONTRACTOR SHALL CONFIRM WITH THE WATER UTILITY COMPANY THAT THE EXISTING WATER SUPPLY HAS NO REPORTED CASES OF M.I.C. AND THE WATER SYSTEM IS TREATED WITH A CORROSION INHIBITOR.

GENERAL NOTES:

1. THE FIRE PROTECTION SYSTEMS SHALL COMPLY WITH THE ABOVE REFERENCED NFPA STANDARDS AND ALL STATE AND LOCAL CODES AND REQUIREMENTS.
2. FINAL SYSTEM ACCEPTANCE AND APPROVAL SHALL BE CONDUCTED BY THE LOCAL AUTHORITY HAVING JURISDICTION AND THE ARCHITECT/ENGINEER.
3. CONTRACTOR'S SPRINKLER SYSTEM LAYOUT (SHOP DRAWINGS), HYDRAULIC CALCULATIONS AND MATERIAL DATA SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER AND THE LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL PRIOR TO SYSTEM INSTALLATION.
4. THE FIRE PROTECTION SYSTEMS SHOWN REPRESENT THE DESIGN INTENT OF THE ENGINEER OF RECORD, IN ACCORDANCE WITH STATE REGULATION 61G15-32. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE INSTALLATION WITH ALL OTHER TRADES. THE CONTRACTOR SHALL PROVIDE COMPLETE SPRINKLER SYSTEM LAYOUT DRAWINGS WITH ANY ADDITIONAL OFFSETS, SPRINKLERS OR SYSTEM COMPONENTS AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM AND TO AVOID CONFLICTS WITH OTHER TRADES.
5. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND ALL ASSOCIATED DATA.
6. PROVIDE FIRE STOP ASSEMBLIES FOR ALL PENETRATIONS OF SMOKE/FIRE WALLS, CEILINGS AND FLOORS. FIRE STOP ASSEMBLIES SHALL MEET ASTM E-814. SEE FIRE RATED PIPE PENETRATION DETAILS.
7. CONTRACTOR SHALL PROVIDE CORROSION-RESISTANT TYPES OF SPRINKLERS, PIPE, FITTINGS, AND HANGERS OR PROTECTIVE CORROSION-RESISTANT COATINGS ON ALL DRAIN, DRY PIPE SYSTEM PIPING, FITTINGS, SPRINKLERS AND ALL PIPING AND FITTING EXPOSED TO THE EXTERIOR ELEMENTS.
8. INSTALL ADDITIONAL SPRINKLERS UNDER ALL EXPOSED DUCTWORK OR OBSTRUCTIONS OR COMBINATIONS OF OBSTRUCTIONS EXCEEDING 48" IN WIDTH. PROVIDE ADDITIONAL SPRINKLERS AS REQUIRED FOR PROPER COVERAGE OF OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13.
9. ALL SPRINKLER HEADS INSTALLED WITHIN MECHANICAL ROOMS, STORAGE ROOMS, JANITORS CLOSETS OR AREAS SUBJECT TO MECHANICAL INJURY SHALL BE PROTECTED WITH LISTED GUARDS.
10. COORDINATE PIPE ROUTING WITH DUCT ROUTING, EQUIPMENT LOCATIONS, ELECTRICAL INSTALLATIONS AND BUILDING STRUCTURAL MEMBERS. DO NOT ROUTE PIPING OVER ELECTRICAL PANELS. PIPING ROUTED OVER ELECTRICAL PANELS SHALL BE REROUTED AT NO ADDITIONAL COST.
11. PROVIDE TAMPER SWITCHES ON ALL CONTROL VALVES.
12. SLOPE ALL PIPING TO THE SYSTEM MAIN DRAIN AS REQUIRED TO INSURE PROPER DRAINAGE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL PIPING IS DRAINABLE. ADDITIONAL DRAINS AND PLUGS SHALL BE INSTALLED WHERE REQUIRED TO COMPLY WITH THE ABOVE REFERENCED CODES.
13. ALL ROLL GROOVED AND CUT GROOVED COUPLINGS AND FITTINGS SHALL BE PROVIDED BY A SINGLE MANUFACTURER.
14. SPRINKLERS SHALL BE CENTERED IN CEILING TILES IN AREAS WITH LAY-IN TILES AND VISUALLY ALIGNED IN AREAS WITH SMOOTH CEILINGS.

Sheet List

Sheet Number	Sheet Name
F-001	FIRE PROTECTION SYMBOLS AND GENERAL NOTES
F-101	FIRE PROTECTION SITE PLAN
F-201	FIRE PROTECTION PLAN AREA A & C
F-202	FIRE PROTECTION PLAN AREA B
F-801	FIRE PROTECTION DETAILS

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SIGNATU

JULIAN MARTIN HARRIS LICENSE No. 93562 STATE OF FLORIDA PROFESSIONAL ENGINEER

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C.o.T. NO. 24-C-00032

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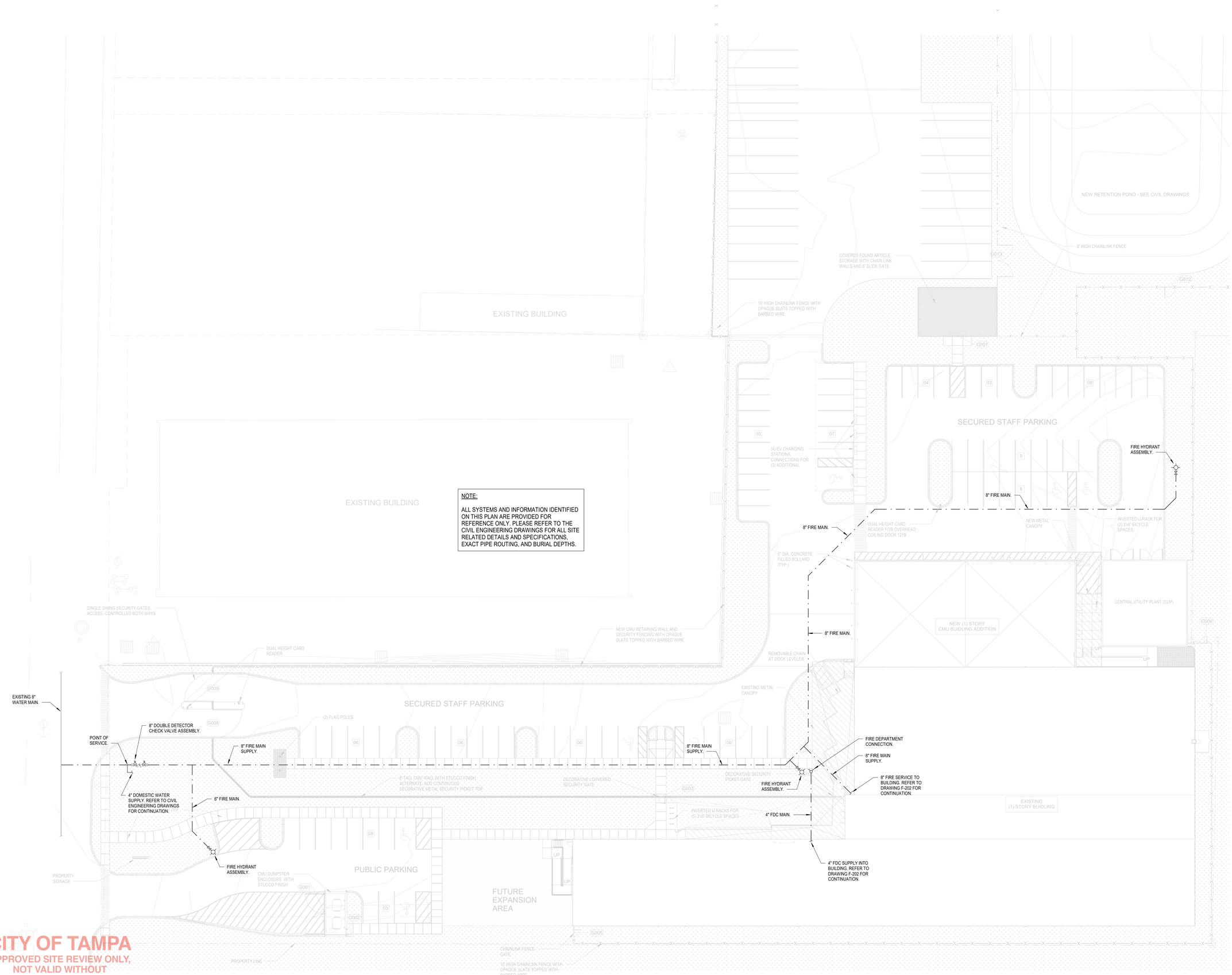
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CHECKED BY: JH

TPD HOWARD AVENUE ANNEX BUILDING

FIRE PROTECTION SYMBOLS AND GENERAL NOTES

TRUE PROJECT NORTH:

F-001



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9/

FIRE PROTECTION SITE PLAN

1 / F-101 1" = 20'-0"

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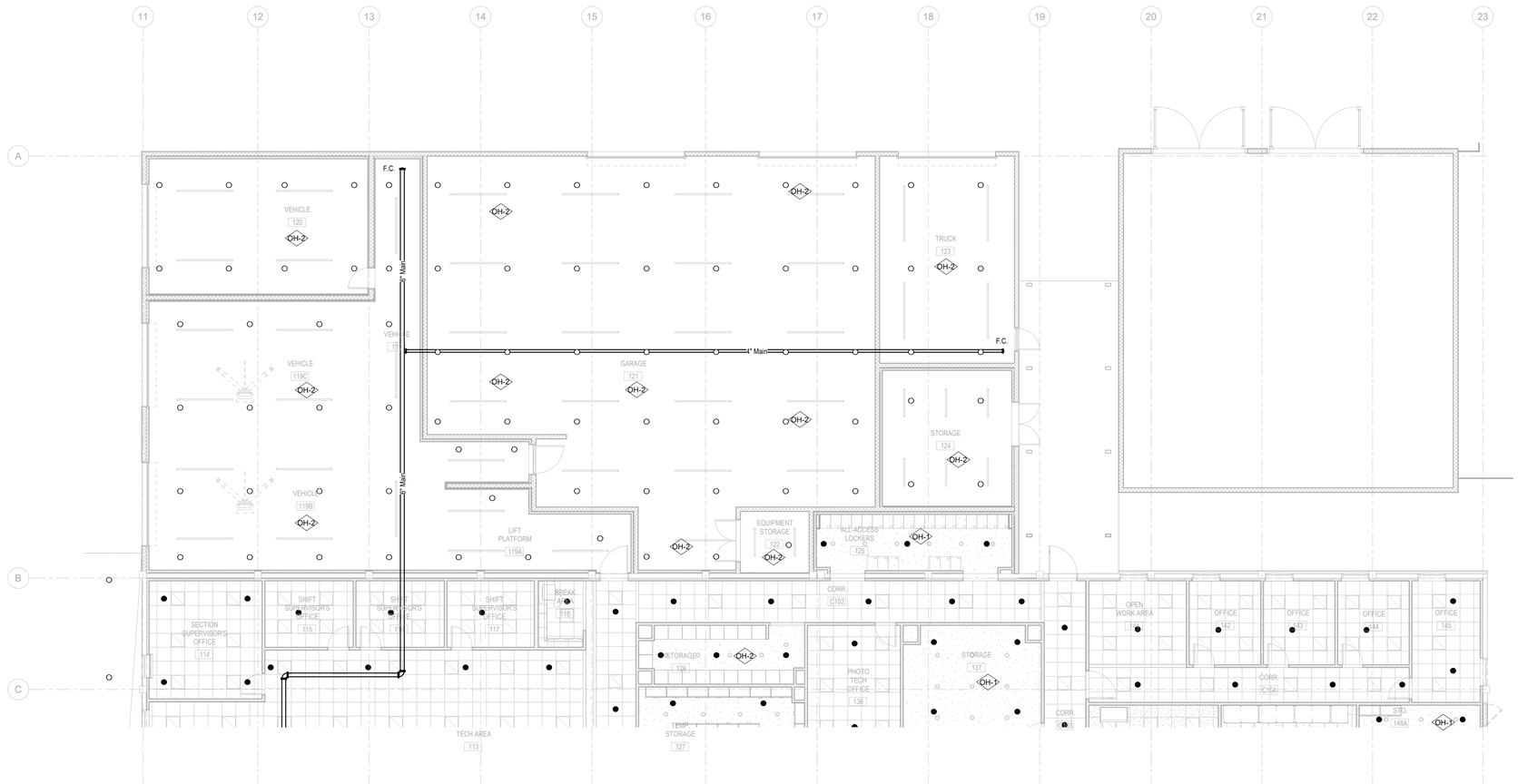
DRAWN BY: **Author**
CHECKED BY: **Checker**

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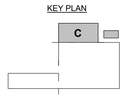
FIRE PROTECTION SITE PLAN

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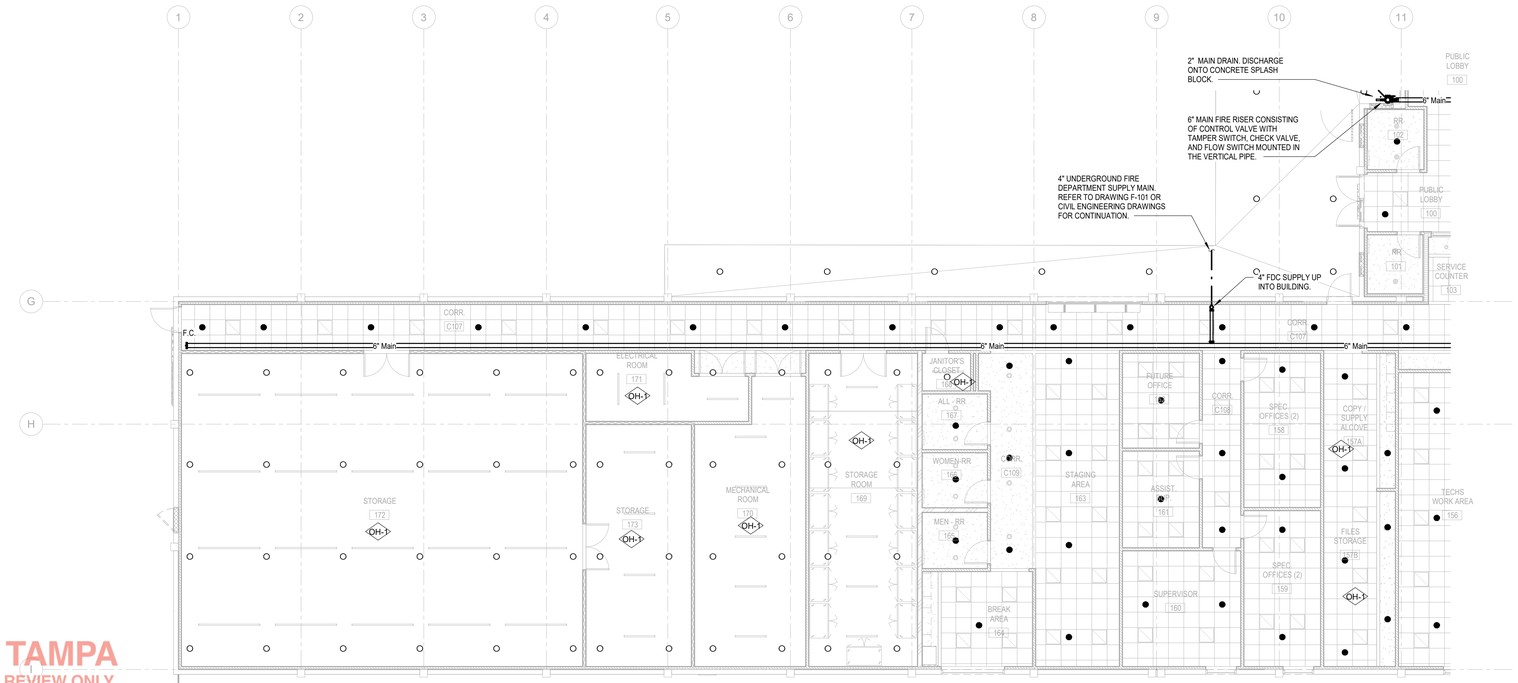
F-101



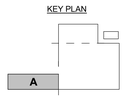
KEY PLAN



2 F-201 **FIRE PROTECTION PLAN - AREA C**
1/8" = 1'-0"



KEY PLAN



1 F-201 **FIRE PROTECTION PLAN - AREA A**
1/8" = 1'-0"

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GENERAL NOTES:

a. PROVIDE A COMPLETE WATER-BASED FIRE SUPPRESSION SYSTEM IN THE BUILDING. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13 - 2016, NFPA 24 - 2016, THE FLORIDA BUILDING CODE 8TH EDITION (2023), AND THE FLORIDA FIRE PREVENTION CODE.

b. PROVIDE A COMPLETE SYSTEM PER THE DRAWING NOTES AND THE SPECIFICATION. ALL AREAS ARE LIGHT HAZARD OCCUPANCY EXCEPT WHERE OTHER OCCUPANCY CLASSIFICATIONS ARE LISTED.

c. COORDINATE SPRINKLER LOCATIONS WITH LIGHTS, CEILING GRID, AND ALL CEILING MOUNTED DEVICES.

d. CENTER ALL SPRINKLERS IN TILES.

e. FIRE SPRINKLERS SHALL BE INSTALLED WITHIN ALL AREAS OF THE BUILDING IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND NFPA 13 CODES STANDARDS.

f. WORK SHALL NOT COMMENCE UNTIL SHOP DRAWINGS HAVE BEEN APPROVED BY THE BUILDING DEPARTMENT.

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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

PROJECT STATUS:
PERMIT DOCUMENTS

ISSUE DATE:
09/09/2024

REVISIONS:

DRAWN BY: **JH**
CHECKED BY: **JH**

TPD HOWARD AVENUE ANNEX BUILDING

FIRE PROTECTION PLAN AREA A & C

TRUE PROJECT NORTH:

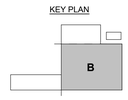
F-201



1 F-202 **FIRE PROTECTION PLAN - AREA B**

1/8" = 1'-0"

KEY PLAN



GENERAL NOTES:

a. PROVIDE A COMPLETE WATER-BASED FIRE SUPPRESSION SYSTEM IN THE BUILDING. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13 - 2016, NFPA 24 - 2016, THE FLORIDA BUILDING CODE 7TH EDITION (2020), AND THE FLORIDA FIRE PREVENTION CODE.

b. PROVIDE A COMPLETE SYSTEM PER THE DRAWING NOTES AND THE SPECIFICATION. ALL AREAS ARE LIGHT HAZARD OCCUPANCY EXCEPT WHERE OTHER OCCUPANCY CLASSIFICATIONS ARE LISTED.

c. COORDINATE SPRINKLER LOCATIONS WITH LIGHTS, CEILING GRID, AND ALL CEILING MOUNTED DEVICES.

d. CENTER ALL SPRINKLERS IN TILES.

e. FIRE SPRINKLERS SHALL BE INSTALLED WITHIN ALL AREAS OF THE BUILDING IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND NFPA 13 CODES STANDARDS.

f. WORK SHALL NOT COMMENCE UNTIL SHOP DRAWINGS HAVE BEEN APPROVED BY THE BUILDING DEPARTMENT.

CITY OF TAMPA
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NOT VALID WITHOUT
BUILDING PLANS
BLD-25-0517072
9/3/2025

City of Tampa
CONSTRUCTION SERVICES DIVISION
PLANS APPROVAL
BLD-25-0517072 9/3/2025
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ADG Architects Design Group
333 North Knowles Avenue
Winter Park, Florida 32789

HOWARD+ASSOCIATES
ARCHITECTS, P.A.
3330 Henderson Blvd., Ste. 206B
Tampa, FL 33609 • 813.872.8668

SGM ENGINEERING
935 LAKE BALDWIN LANE
ORLANDO, FL 32814
TEL: 407-767-5186
FAX: 407-767-5772
CA-00006208
SGM #: 2023-335
WWW.SGMENGINEERING.COM
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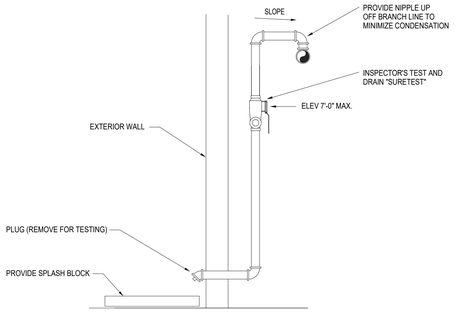
DRAWN BY: **JH**
CHECKED BY: **JH**

TPD HOWARD AVENUE ANNEX BUILDING

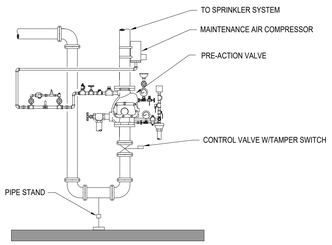
FIRE PROTECTION PLAN AREA B

TRUE PROJECT NORTH:

F-202



INSPECTOR'S TEST - DRY PIPE SYSTEM
No Scale



DOUBLE INTERLOCK PRE-ACTION SYSTEM

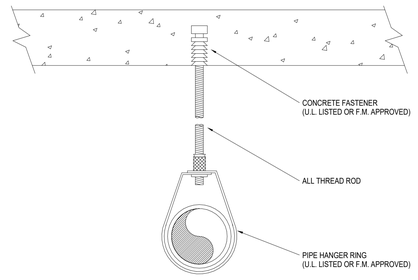
COMPLETE PACKAGE SHALL DOUBLE INTERLOCKED PRE-ACTION VALVE WITH COMPLETE TRIM PACKAGE, ACCELERATOR, PRESSURE SWITCH, RISER MOUNTED AIR COMPRESSOR, (1/6 HP 120V/1PH/60), AIR MAINTENANCE DEVICE.

BASIS OF DESIGN:

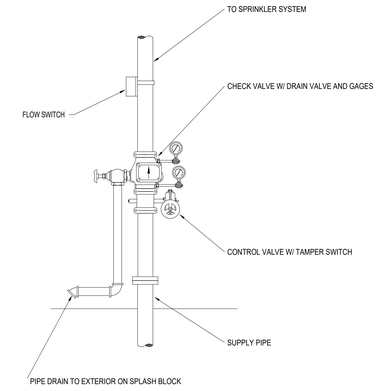
VICTAULIC FIRELOCK NXT SERIES 769N

THE SYSTEM SHALL BE PROVIDED WITH BOTH A PNEUMATICALLY PRESSURIZED SPRINKLER SYSTEM, AND AN ELECTRIC RELEASE SYSTEM, (COMPOSED OF AN APPROVED SOLENOID VALVE, ELECTRIC PANEL, AND AN APPROPRIATE SENSOR). THE VALVE WILL ACTIVATE ONLY WHEN THERE IS A PRESSURE LOSS IN THE SPRINKLER SYSTEM AND THE ELECTRIC DETECTION OF A RELEASE EVENT.

DOUBLE INTERLOCK PRE-ACTION PIPE RISER
No Scale



HANGER - CONCRETE
No Scale



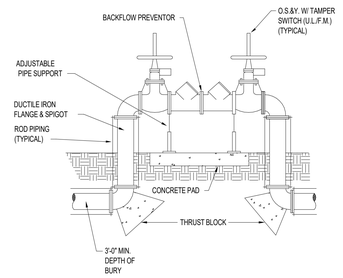
SPRINKLER RISER - WET PIPE
No Scale

FREESTANDING FIRE DEPARTMENT CONNECTION
No Scale

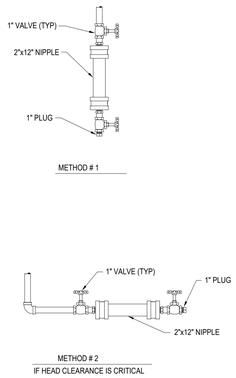
DRY-PENDENT INSTALLATION
No Scale

RETURN BEND
No Scale

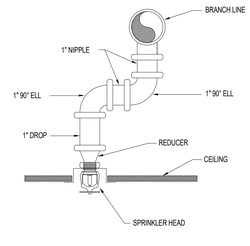
INSPECTOR'S TEST - WET PIPE SYSTEM
No Scale



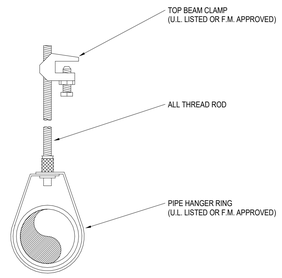
BACKFLOW PREVENTOR
No Scale



AUXILIARY DRAIN - DRY PIPE SYSTEM
No Scale



SWING JOINT
No Scale



HANGER - STEEL
No Scale

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9/3/2025

City of Tampa
CONSTRUCTION SERVICES DIVISION
PLANS APPROVAL
BLD-25-0517072 9/3/2025
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It is unlawful to make changes or alterations without written approval from the City of Tampa Construction Services Division.
This Stamp is NOT a permit, and does not allow the holder to perform work without obtaining all required permits of any City, or State Codes.
REVIEWED FOR CODE COMPLIANCE

HOWARD + ASSOCIATES
ARCHITECTS, P.A.
2200 Henderson Blvd., Ste. 2068
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333 North Knowles Avenue
Winter Park, Florida 32789
SGM
ENGINEERING
935 LAKE BALDWIN LANE
ORLANDO, FL 32814
TEL: 407-767-5186
FAX: 407-767-5772
CA-00006208
SGM #: 2023-335
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ADG PROJECT NO. **1087**

C.o.T. NO. **24-C-00032**

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ISSUE DATE:
09/09/2024

REVISIONS:

DRAWN BY: **JH**
CHECKED BY: **JH**

TPD HOWARD AVENUE ANNEX BUILDING

FIRE PROTECTION DETAILS

TRUE PROJECT NORTH:

F-801

Y:\10115-Kokolakis Contracting\001-01_COT C35 Impound Lot\CAD\Dwgs\General\10115-001-G101.dwg

22x34

Plotted: 11/19/24 12:46pm mross

LAST SAVED: 11/11/2024 10:17 AM MROSS

City of Tampa
CONSTRUCTION SERVICES DIVISION
PLAN APPROVAL
BLD-25-0517072 SHEET NO.
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TPD HOWARD AVENUE

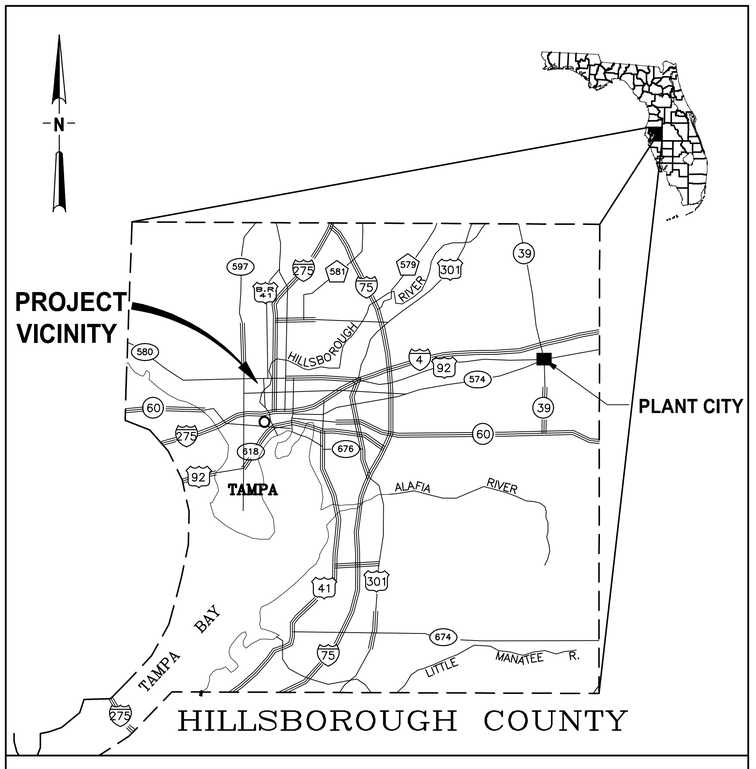
ANNEX BUILDING

HILLSBOROUGH COUNTY, FLORIDA

PREPARED FOR:
CITY OF TAMPA

PROJECT NO 24-C-00032

PROJECT ADDRESS:
5005 N. HOWARD AVE
TAMPA, FL 33603



SITE VICINITY MAP

PREPARED BY:

JonesEdmunds

CERTIFICATE OF AUTHORIZATION #1841
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377- 5821



PROJECT LOCATION MAP

PROJECT STAKEHOLDERS

APPLICANT
CITY OF TAMPA POLICE DEPARTMENT
ONE POLICE CENTER
411 N. FRANKLIN STREETTAMPA, FL 33602
PHONE: 813-276-3200
CONTACT: DEPUTY CHIEF CALVIN JOHNSON

ARCHITECT
ARCHITECTS DESIGN GROUP (ADG)
333 N. KNOWLES AVENUEWINTER PARK, FL 32789
PHONE: 407-647-1706
CONTACT: IAN REEVES, AIA, NALEP

CIVIL ENGINEER
JONES EDMUNDS & ASSOCIATES, INC.
324 S. HYDE PARK AVENUESUITE 250TAMPA, FL 33606
PHONE: 813-258-0703
CONTACT: JOHN HARVEY. PE. LEED AP

JOHN A. HARVEY
LICENSE
NO. 64570
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by John A Harvey
Date: 2025.01.17 06:54:32-05'00'

LANDSCAPE ARTCHITECT & CERTIFIED ARBORIST
ANDERSON LESNIAK LIMITED, INC.
4921 S WEST SHORE BOULEVARDTAMPA, FL 33611
PHONE: 813-831-9595
CONTACT: ALYSON UTTER, RLA, ASLA, ISA

LAND SURVEYOR
ESP ASSOCIATES FL, INC.
518 13TH STREET WESTBRADENDTON, FL 34205
PHONE: 941-345-5451
CONTACT: WALTER SMITH, PLS, PSM, MBA

GEOTECHNICAL ENGINEER
INTERTEK-PSI5801
BENJAMIN CENTER DRIVESUITE 122TAMPA, FL 3363
4PHONE: 813-886-1075
CONTACT: LLOYD T. LASHER, PE

MEP/FP ENGINEERS
SGM ENGINEERING, INC.935
LAKE BALDWIN LANEORLANDO, FL 32814PHONE: 407-767-5188C
ONTACT: JERRY SCHNEIDER, PE

STRUCTURAL ENGINEERS
MASTER CONSULTING ENGINEERS (MCE)5523
WEST CYPRESS STREETSUITE 200TAMPA, FL 33607
PHONE: 813-287-3600CONTACT: LUIS BRIDAT, PE

811 Know what's below. Call before you dig.

ALERT TO CONTRACTOR:

1. THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIOD OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE, AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS. REFER TO SITE SPECIFICATIONS.
2. ALL GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS.

PERMIT DOCUMENTS

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BLD-25-0517072
9/3/2025

JONES EDMUNDS PROJECT No: 10115-001-01

SEPTEMBER 2024