

CONCEPTUAL RENDERING: RENDERING MAY NOT ACCURATELY REFLECT CONSTRUCTION DOCUMENTS - NOT FOR CONSTRUCTION

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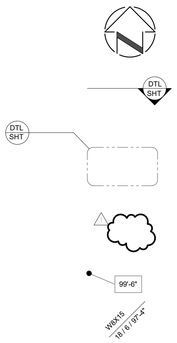
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PROJECT INFORMATION

ADDRESS	41 CLARINDA LN
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PROJECT NO.	2613
STATUS	BID PACKAGE #2 - NOT FOR CONSTRUCTION
DATE	10/22/2026
OWNER ID	DESIGN & CONSTRUCTION ADMINISTRATION DIVISION ESCAMBIA COUNTY, FLORIDA 100. E BLOUNT STREET PENSACOLA, FL

STRUCTURAL CALLOUTS



NORTH ARROW (PLAN NORTH)

SECTION CALLOUT

PLAN DETAIL CALLOUT

REVISION CLOUD & DELTA

SPOT ELEVATION

COLUMN / PIER CALLOUT

STRUCTURAL PLANS

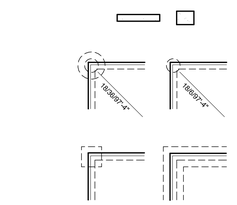


STRUCTURAL GRID

FACE OF ARCH FINISH
(MATL VARIES)

MECHANICAL EQUIPMENT

REINFORCED CONCRETE

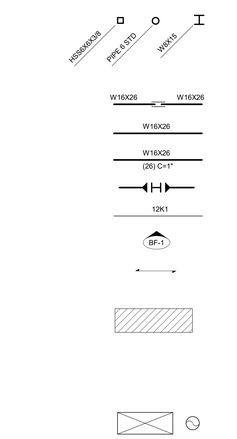


STRUCTURAL CONCRETE
WALL OR COLUMN IN SECTION

PIERS AND GRADE
BEAM FOUNDATION
(STRAIGHT OR BELL)

FOOTING AND GRADE
BEAM FOUNDATION
(SPREAD OR CONT)

STRUCTURAL STEEL FRAMING



STRUCTURAL COLUMNS
TUBE, PIPE OR WIDE FLANGE

SPLICE FOR STEEL BEAM
DROP-IN-SYSTEM

STEEL FRAMING - PURLIN
BEAM OR GIRDER

STEEL BEAM OR GIRDER w/
NO OF HS AND CAMBER

MOMENT CONNECTION

STEEL BAR JOIST

BRACE FRAME DESIGNATION

FLOOR/ROOF DECK SPAN
DIRECTION

ZONE FOR METAL DECK
SPECIAL WELDING PATTERNS

SLAB/ROOF DECK OPENING

GRATING SYSTEM

FD

FLOOR DRAIN

CMU WALLS

CMU WALL

STRUCTURAL ABBREVIATIONS

ABOVE FINISH FLOOR	AFF	KIPS (1000 LBS.)	K
ADDITIONAL	ADDL	KIP PER LINEAR FOOT	KLF
AMERICAN INSTITUTE OF STEEL CONSTRUCTION	AISC	KIP PER SQUARE FLOOR	KSF
AMERICAN WELDING SOCIETY	AWS	KNOCKOUT PANEL	K/O
ANCHOR BOLT	AB		
AMERICAN CONC. INSTITUTE	ACI	LIGHT WEIGHT	LT WT
APPROXIMATE	APPROX	LIVE LOAD	LL
ARCHITECT	ARCH	LONGITUDINAL	LONG
ARCHITECTURAL	ARCH	LONG LEG BACK TO BACK	LLBB
AREA DRAIN	AD	LONG LEG HORIZONTAL	LLH
AIR CONDITIONER	A/C	LONG LEG VERTICAL	LLV
AIR HANDLING UNIT	AHU	LOW	LO
AT	@		
		MANUFACTURER	MFR
BASEMENT	BSMT	MASONRY	MAS
BASE PLATE	B PL	MATERIAL	MATL
BEAM	BM	MAXIMUM	MAX
BEARING	BRG	MECHANICAL	MECH
BELOW FINISH FLOOR	BFF	METAL	MTL
BETWEEN	BTWN	MEZZANINE	MEZZ
BLOCK	BLK	MIDDLE	MID
BLOCKING	BLKG	MINIMUM	MIN
BOTTOM	BOT	MISCELLANEOUS	MISC
BRICK LEDGE	BL	MOMENT CONNECTION	MC
BRIDGING	BRDG		
BUILDING	BLDG	NEAR SIDE	NS
BUILDING LINE	BLDG LINE	NOMINAL	NOM
		NORMAL WEIGHT	N WT
CANTILEVER	CANT	NOT APPLICABLE	NA
CAST-IN-PLACE	CIP	NOT IN CONTRACT	NIC
CEILING	CLG	NOT TO SCALE	NTS
CENTER LINE	CL	NUMBER	NO, #
CLEAR	CLR		
COLUMN	COL	ON CENTER	OC
COLD FORMED METAL	CFM	OPENING	OPNG
COMPRESSION, COMPRESSIBLE	COMP	OPPOSITE	OPP
CONCRETE	CONC	OPPOSITE HAND	OH
CONCRETE MASONRY UNIT	CMU	ORIGINAL	ORIG
CONNECTION	CONNX	OUTSIDE FACE	OF
CONTINUOUS	CONT	OUTSIDE DIAMETER	DD
CONSTRUCTION	CONSTR	PARALLEL	PARAL
CONSTRUCTION JOINT	CJ	PAVEMENT	PVMT
CONTRACTOR	CONTR	PERIMETER	PERIM
COORDINATE	COORD	PERPENDICULAR	PERP
		PLATE	PL
DEGREE	DEG	POST-TENSION	PT
DETAIL	DTL	POUNDS	LBS
DEAD LOAD	DL	POUNDS PER CUBIC FOOT	PCF
DIAGONAL	DIAG	POUNDS PER SQUARE INCH	PSI
DIAMETER	DIA	PRECAST CONCRETE	PC
DIMENSION	DIM	COMPRESSIBLE JOINT FILLER	CJF
DRAWING	DWG	PROJECTION	PROJ
DOUBLE	DBL		
DOUBLE ANGLE	2L	QUANTITY	QTY
DOWEL	DWL		
DOWN	DN	RADIUS	R
		RECOMMENDATIONS	REC
EACH	EA	REFER/REFERENCE	REF
EACH FACE	EF	REINFORCED CONCRETE PIPE	RCP
EACH WAY	EW	REINFORCED, REINFORCING	REINF
ELEVATOR	ELEV	REQUIRED	REQD
EMBEDMENT	EMBED	REQUIREMENT	REQT
ENGINEER	ENG	ROOF DRAIN	RD
EQUAL	EQ	ROOF TOP UNIT	RTU
EQUIPMENT	EQUIP		
EXHAUST FAN	EXF	SCHEDULE	SCHED
EXISTING	EXIST (E)	SECTION	SECT
EXPANSION JOINT	EJ	SHEET	SHT
EXTERIOR	EXT	SHORT LEG BACK TO BACK	SLBB
		SIMILAR	SIM
FABRICATOR, FABRICATE	FAB	SLAB ON GRADE	SOG
FACE OF	FO	SPACE	SP
FACE TO FACE	F TO F	SPECIFICATION	SPEC
FAR SIDE	FS	SQUARE	SQ
FINISHED FLOOR	FIN FLR	SQUARE FOOT/FEET	SF
FLOOR	FLR	STAINLESS STEEL	SS
FLOOR DRAIN	FD	STANDARD	STD
FOOT	FT	STEEL	STL
FOOTING	FTG	STEEL STUD MFR. ASSOC.	SSMA
FOUNDATION	FDN	STIFFENER	STIFF
FRAME	FRM	STRAIGHT	STR
		STIRRUPS	STIRR
GAGE OR GAUGE	GA	STRUCTURAL	STRUCT
GALVANIZED	GALV	SUPPORT	SUPT
GENERAL	GEN	SYMMETRICAL	SYM
GENERAL CONTRACTOR	GC		
GIRDER TRUSS	GT	TEMPERATURE	TEMP
GRADER BEAM	GB	THICK	THK
		THREADED ROD	TH RD
HEADED STUDS	HS	TONGUE AND GROOVE	T&G
HEIGHT	HT	TOP AND BOTTOM	T&B
HIGH	HI	TOP OF	T/O
HIGH AND LOW	HI & LO	TOTAL LOAD	TL
HORIZONTAL	HORIZ	TRANSVERSE	TRANS
		TYPICAL	TYP
INCH	IN		
INFORMATION	INFO	UNLESS NOTED OTHERWISE	UNO
INSIDE DIAMETER	ID	VERTICAL	VERT
INSIDE FACE	IF		
INTERIOR	INT		
INTERMEDIATE	INTERM	WATERSTOP	WS
		WEIGHT	WT
JOINT	JT	WELDER WIRE FABRIC	WWF
JOIST	JST	WIDE FLANGE BEAM	WF
		WITH	W/
		WITHOUT	W/O
		WORK POINT	WP

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Revisions

PROJECT NO. 2613
STATUS BID PACKAGE #2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
DRAWN BY RLG

STRUCTURAL ABBREVIATIONS AND LEGEND **S000**

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL SHALL CONFORM TO AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS," ANSI/AISC 360, LATEST EDITION.
2. BOLTS AND BOLTED CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS," APPROVED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS, LATEST EDITION. CONNECTIONS SHALL BE BEARING TYPE UNLESS NOTED OTHERWISE IN DRAWINGS.
3. ALL W SHAPES SHALL CONFORM TO ASTM A992.

   ALL OTHER STRUCTURAL STEEL SHAPES, PLATES, ETC., SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE.
4. ALL STRUCTURAL STEEL TUBE MEMBERS SHALL CONFORM TO ASTM A500, GRADE C.
5. ALL STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B.
6. ALL STRUCTURAL ROUND SHAPES SHALL CONFORM TO ASTM A53, GRADE B.
7. GALVANIZING OF STEEL MEMBERS SHALL CONFORM TO ASTM A123/A123M. ALL STEEL FRAMING THAT COMES IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE COATED TO A G90 THICKNESS AND ALL BOLTS, HEADED STUDS AND CONNECTORS SHALL BE COATED TO A G185 THICKNESS. ALL EXPOSED STRUCTURAL STEEL FRAMING AND ACCESSORIES FOR MECHANICAL EQUIPMENT SUPPORTS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION. CONTRACTOR TO PROVIDE BOLTS AND PUNCH BEAMS AS REQUIRED BY EQUIPMENT MANUFACTURER'S DETAILS.
8. ALL STRUCTURAL STEEL DETAILS AND CONNECTIONS SHALL CONFORM TO THE STANDARDS OF THE AISC.
9. STEEL MEMBERS SHALL NOT BE SPLICED EXCEPT WHERE SHOWN ON THE DRAWINGS.
10. ALL STEEL BEAMS SHALL BE ERECTED WITH NATURAL CAMBER UP.
11. WELDED CONSTRUCTION SHALL CONFORM TO THE AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE", D1.1. ELECTRODES FOR FIELD AND SHOP WELDS SHALL BE E70XX, UNLESS NOTED OTHERWISE.
12. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS.
13. FULL AND PARTIAL PENETRATION WELDS PERFORMED IN THE FIELD SHALL BE ULTRASONICALLY TESTED.
14. WHEN WELDS ARE NOT CALLED-OUT ON DRAWINGS, THEY ARE MINIMUM SIZE CONTINUOUS FILLET WELDS IN ACCORDANCE WITH AWS D1.1.
15. THE STEEL FABRICATOR IS RESPONSIBLE FOR COORDINATION WITH THE MANUFACTURER OF STEEL JOISTS AND JOIST GIRDERS.
16. TEMPORARY SUPPORTS, SUCH AS TEMPORARY GUYS, BRACES, FALSEWORK, CRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION WILL BE DETERMINED, FURNISHED, AND INSTALLED BY THE ERECTOR. THESE TEMPORARY SUPPORTS SHALL BE CAPABLE OF SECURING THE STEEL FRAMING, OR ANY PARTLY ASSEMBLED STEEL FRAMING, AGAINST LOADS COMPARABLE IN INTENSITY TO THOSE FOR WHICH THE STRUCTURE WAS DESIGNED, RESULTING FROM WIND, SEISMIC FORCES AND ERECTION OPERATIONS.
17. THE LIFTING AND ERECTION OF PRE-ASSEMBLED ELEMENTS SUCH AS TRUSSES OR PRE-FABRICATED FRAMING ARE CONSIDERED SPECIAL ERECTION CONDITIONS. THE SELECTION OF LIFT POINTS AND ERECTION TECHNIQUES ARE THE RESPONSIBILITY OF THE CONTRACTOR. LOCATE AND PROVIDE SUFFICIENT LIFT POINTS TO PREVENT OVERSTRESS AND/OR DISTORTION OF ANY COMPONENTS WITHIN THE ASSEMBLY. PROVIDE TEMPORARY STRONG-BACKS, STIFFENERS AND/OR LIFTING DEVICES AS REQUIRED.
18. ALL GROUT BELOW ALL COLUMN BASE PLATES AND BEARING PLATES SHALL BE NON-SHRINK, NON-METALLIC GROUT UNLESS NOTED OTHERWISE.

SUBGRADE PREPARATION

1. ALL SUBGRADE SHALL BE PREPARED IN STRICT CONFORMANCE TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. REFER TO THE GEOTECHNICAL REPORT, SUPPLEMENTARY LETTERS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

   THE SUBGRADE SHALL BE IMPROVED TO REDUCE THE POTENTIAL FOR SUBGRADE MOVEMENT TO LESS THAN OF ONE INCH TOTAL SETTLEMENT & 1/2 INCH OF DIFFERENTIAL SETTLEMENT BY RE-COMPACTING IN-SITU SOIL AS APPROVED BY GEOTECH ENGINEER.

   THE FOLLOWING IS A SUMMARY OF THE INFORMATION CONTAINED IN THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS:

   A. THE BUILDING EXCAVATION AREA SHALL EXTEND BEYOND THE BUILDING LINE A MINIMUM OF 5 FEET IN GENERAL. AT ALL ENTRANCES AND AT AREAS WITH SIDEWALKS/PAVING DIRECTLY ADJACENT TO THE BUILDING.
   B. WITHIN THE BUILDING AREA, EXCAVATE AND REMOVE ALL FILL MATERIAL. REFER TO THE GEOTECHNICAL REPORT FOR APPROXIMATE DEPTHS OF FILL. THE TESTING LAB SHALL DETERMINE THROUGH FIELD OBSERVATION AND TESTING THAT ALL UNACCEPTABLE FILLS HAVE BEEN REMOVED.
   C. WITHIN THE BUILDING AREA, RE-COMPACT NATIVE SOIL OR IMPORTED FILL AS REQUIRED TO PROVIDE A COMPACTED MATERIAL UNDER BUILDING AREA. FOOTING THAT HAVE A WIDTH GREATER THAN 3FT IN WIDTH WILL REQUIRE ADDITIONAL 2FT OF SOIL COMPACTION BENEATH FOOTING.
   D. SCARIFY EXPOSED NATIVE SOILS TO A DEPTH OF 12 INCHES FOR FOOTING LESS THAN 3FT IN WIDTH AND RECOMPACT TO A MINIMUM OF 95% OF MODIFIED PROCTOR (ASTM D1557) AT A MINIMUM OF +2 PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE CONTENT FOR THE SOIL AS DIRECTED IN THE GEOTECHNICAL REPORT.
   K. SELECT FILL SHALL CONSIST OF A SLIGHTLY SILTY SAND OR SILTY/CLAYEY SAND. ALL SELECT FILL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.
   L. SPREAD THE SELECT FILL IN THIN LOOSE LIFTS NOT EXCEEDING 10 TO 12 INCHES THICK FOR SLIGHTLY SILTY SAND OR LIFTS NOT EXCEEDING 6 TO 8 INCHES THICK FOR SILTY/CLAYEY SAND AND UNIFORMLY COMPACT TO A MINIMUM OF 95% OF ASTM D1557 WITHIN +2 OR –2 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT FOR THE SOIL AS RECOMMENDED IN THE GEOTECHNICAL REPORT.
   M. PLACE FIRST LIFT OF SELECT FILL WET OF OPTIMUM TO PREVENT DRYING OF THE UNDERLYING SUBGRADE.
   N. PROTECT FILL TO PREVENT DESICCATION PRIOR TO PLACING A SUBSEQUENT LIFT.
2. CONTACT THE GEOTECHNICAL ENGINEER FOR ANY QUESTIONS REGARDING INTERPRETATION OR CLARIFICATION OF THE ABOVE INFORMATION.
3. FOUNDATION AND SUBGRADE PREPARATION SHALL BE MONITORED AND TESTED BY THE SOILS ENGINEER. REFER TO SPECIFICATIONS FOR QUALITY CONTROL REQUIREMENTS.

CONCRETE NOTES

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318- PER GOVERNING BUILDING CODE.
2. CONCRETE IN THE FOLLOWING AREAS SHALL HAVE SAND AND GRAVEL OR CRUSHED STONE AGGREGATES AND THE DESIGNATED COMPRESSIVE STRENGTH IN 28 DAYS UNLESS NOTED OTHERWISE. NORMAL WEIGHT AGGREGATES SHALL CONFORM TO ASTM C33.

   FOOTING AND SLABS ON GRADE ---------- f'_c = 4,000 psi
   ALL OTHER CONCRETE ---------- f'_c = 4,000 psi
3. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS:
   REFER TO ACI 318 - SECTION 7.7 FOR CONDITIONS NOT NOTED.

   FOOTINGS ---------- 3"
   SLABS-ON-GRADE ---------- CENTERED
4. MAXIMUM NOMINAL COARSE AGGREGATE SIZE SHALL BE 1 1/2" MAX FOR PIERS AND 1" MAX TYPICAL UNLESS NOTED OTHERWISE.
5. CONCRETE SLUMPS SHALL BE AS FOLLOWS:

   CONCRETE CONTAINING HRWR------ 10" MAX
   ALL OTHER CONCRETE ---------- 5" MAX, 2" MIN
6. CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED AS FOLLOWS:

3/4"	NOMINAL AGGREGATE SIZE	4% TO 8%
1"	NOMINAL AGGREGATE SIZE	3.5% TO 6.5%
1 1/2"	NOMINAL AGGREGATE SIZE	3% TO 6%
7. ALL FOUNDATION PIER CAPS SHALL BE FORMED ON SIDES. ALL ELEMENTS OF THE FORMS, FORMWORK, BRACING AND SHORING SHALL CONSIST OF WOOD, METAL OR OTHER MANUFACTURED PRODUCTS AS SPECIFIED. EARTH MAY NOT BE USED AS A FORM, EITHER DIRECTLY OR INDIRECTLY. NEITHER EARTH TRENCHES NOR EARTH TRENCHES LINED WITH ANOTHER MATERIAL ARE ACCEPTABLE.
8. THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE POURS. ALL CONSTRUCTION JOINTS SHALL BE MADE IN THE CENTER OF SPANS WITH VERTICAL BULK HEADS. THE LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
9. ALL CONSTRUCTION JOINTS SHOWN ON THE DRAWINGS SHALL BE INCORPORATED IN THE STRUCTURE UNLESS OTHERWISE APPROVED BY THE ENGINEER OF RECORD. ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION SHALL BE LOCATED AND DETAILED ON SHOP DRAWINGS. WHEN CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THE CONSTRUCTION DOCUMENTS ARE REQUIRED, THE REINFORCEMENT SHALL PASS CONTINUOUSLY THROUGH JOINT AND A KEY SHALL BE PROVIDED FOR ADEQUATE SHEAR TRANSFER.
10. UNLESS OTHERWISE NOTED OR DETAILED, PROVIDE (2)#5, (1) EACH FACE AROUND UNFRAMED OPENINGS IN CONCRETE WALLS AND GRADE BEAMS. PLACE BARS PARALLEL TO SIDES OF OPENINGS AND EXTEND 24 INCHES BEYOND CORNERS.
11. PROVIDE EQUIPMENT BASES AND SUPPORTS AS REQUIRED, COMPLYING WITH APPROVED MANUFACTURERS CERTIFIED SHOP DRAWINGS AND DETAILS.
12. SIZE AND LOCATION OF BASES AND EMBEDDED ANCHORS FOR EQUIPMENT SHALL BE COORDINATED WITH EQUIPMENT SUPPLIER AND ALL BE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.
13. NO ALUMINUM OF ANY TYPE SHALL BE ALLOWED IN THE CONCRETE WORK, UNLESS COATED AND APPROVED BY THE ENGINEER OR RECORD.
14. NO ELECTRICAL CONDUIT SHALL BE PLACE ABOVE THE WELDED WIRE FABRIC IN THE SLAB-ON-GRADE OR CONCRETE PLACED ON COMPOSITE METAL DECK. MAXIMUM SIZE OF CONDUIT SHALL BE 1/3 THE SLAB THICKNESS (ABOVE DECK ON COMPOSITE SLAB) INCLUDING CROSSOVERS. CONDUIT SHALL NOT BE PLACED CLOSER THAN 3 DIAMETERS ON CENTER.

REINFORCING STEEL NOTES

1. ALL REINFORCING STEEL SHALL BE NEW DEFORMED BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
2. DETAILING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE ACI DETAILING MANUAL.
3. REINFORCING BARS MAY BE SPLICED ONLY AS SHOWN ON THE DRAWINGS EXCEPT THAT REINFORCING DESIGNATED AS "CONTINUOUS" MAY BE CONTACT LAP SPLICED WITH TENSION LAP PER ACI 318 CHAPTER 25.
4. FOR CONTINUOUS FOOTING REINFORCING, PER FOOTING REINFORCEMENT LAP SPLICES SCHEDULED ON S301.
5. PROVIDE CORNERS BARS OF SAME SIZE AND QUANTITY AS CONTINUOUS TOP AND BOTTOM REINFORCING OF GRADE BEAMS AT ALL GRADE BEAM CORNERS AND INTERSECTIONS.

LOAD BEARING STRUCTURAL MASONRY

1. STRUCTURAL MASONRY SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" ACI 530 / ASCE 5 - LATEST EDITION.
2. HOLLOW LOAD BEARING MASONRY UNITS SHALL CONFORM TO ASTM C90, LIGHTWEIGHT, TYPE N, WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 psi ON THE NET AREA OF THE BLOCK. DESIGN BASED ON AN ULTIMATE COMPRESSIVE STRENGTH f'm = 2500 psi.
3. MORTAR SHALL CONFORM TO ASTM C270, TYPE M OR S.
4. GROUT SHALL CONFORM TO ASTM A476 WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 psi. USE COARSE GROUT IN TYPICAL APPLICATION. USE FINE GROUT IN 4" AND 6" CMU WALLS AND IN ANY CELL REINFORCED WITH MORE THAN ONE BAR.
5. REFER TO REINFORCING STEEL NOTES FOR REINFORCEMENT USED IN MASONRY CONSTRUCTION. ALL REINFORCING TO BE GRADE 60. PRIOR TO FABRICATION SUBMIT SHOP DRAWINGS FOR REVIEW, INCLUDING WALL ELEVATIONS SHOWING ALL REINFORCING STEEL.
6. VERTICAL REINFORCING SHALL BE #6 BARS AT A MAXIMUM SPACING OF 40" O.C., UNLESS OTHERWISE NOTED ON DRAWINGS. THE FIRST CELL AT CORNERS AND ENDS OF WALLS SHALL BE REINFORCED WITH 1-#6 BAR AND GROUTED FULL. ON EACH SIDE OF WALL OPENINGS 1-#5 BAR EXTENDING 2'-0" BEYOND CORNERS OF OPENING SHALL BE PLACED. ALL REINFORCED CELLS SHALL BE FILLED SOLIDLY WITH GROUT. REFER TO DETAILS FOR SPECIAL REINFORCEMENT AT SUPPORTS.
7. REINFORCING BARS SHALL BE STRAIGHT EXCEPT FOR BENDS AROUND CORNERS AND WHERE BENDS OR HOOKS ARE DETAILED ON THE PLANS.
8. REINFORCING STEEL SHALL BE LAPPED 60 BAR DIAMETERS WHERE SPLICED AND SHALL BE WIRED TOGETHER.
9. HORIZONTAL WALL REINFORCING SHALL BE EXTRA HEAVY HOHMANN & BARNARD COMPANY (LADUR TYPE) AT 1'-4" O.C. FOR 12" CMU AND STANDARD HOHMANN & BARNARD COMPANY (LADUR TYPE) AT 1'-4" O.C. FOR 8" CMU. IN LIEU OF HOHMANN & BARNARD COMPANY REINFORCEMENT THE CONTRACTOR MAY PROVIDE HORIZONTAL BOND BEAMS LOCATED 48" O.C. VERTICALLY AND REINFORCED WITH 2-#5 CONTINUOUS BARS.
10. ALL REINFORCING SHALL BE IN PLACE PRIOR TO GROUTING. VERTICAL REINFORCING BARS SHALL BE HELD IN POSITION AT TOP, BOTTOM, AND AT INTERVALS NOT FURTHER APART THAN 192 BAR DIAMETERS BY WALL-BRAC VERTICAL STEEL POSITIONER AS MANUFACTURED BY W.C.R. FABRICATORS, OR AN EQUIVALENT POSITIONER.
11. PROVIDE CONTINUOUS CMU BOND BEAMS (8" MIN. DEPTH) REINFORCED WITH 2-#5 CONTINUOUS BARS AT TOP OF PARAPETS AND AT ROOF FRAMING ELEVATION FOR FULL LENGTH OF ALL WALLS, WHERE BOND BEAMS REQUIRE SLOPES, PROVIDE 16" DEEP BOND BEAM AND CUT TO PROVIDE AN 8" MINIMUM DEPTH. CONTINUE HORIZONTAL REINFORCEMENT THROUGH MASONRY COLUMNS AND PILASTERS.
12. PROVIDE 2-#5 CORNER BARS (2'-6"x2'-6"), LAP WITH CONTINUOUS BARS IN ALL BOND BEAMS AT CORNERS AND WALL INTERSECTIONS.
13. PROVIDE VERTICAL CONTROL JOINTS IN ALL MASONRY WALLS WHERE SHOWN ON ARCHITECTURAL OR STRUCTURAL DRAWINGS, AND NOT TO EXCEED 30 FEET O.C. PROVIDE MATCHING CONTROL JOINTS IN FINISH MATERIALS (i.e. BRICK, STUCCO, etc.). VERTICAL CELLS ON EACH SIDE OF CONTROL JOINTS SHALL BE REINFORCED AND GROUTED TO MATCH THE TYPICAL WALL REINFORCEMENT.
14. AT WALL CONTROL JOINTS, CONTINUE BOND BEAM REINFORCEMENT THROUGH JOINT AND DISCONTINUE ALL OTHER HORIZONTAL WALL REINFORCING AT JOINT.
15. ALL UNITS SHALL BE LAID WITH FULL MORTAR BEDS ON THE FACE SHELLS. ALL HEAD JOINTS SHALL BE FILLED SOLIDLY WITH MORTAR FOR A DISTANCE IN FROM THE FACE OF THE UNIT NOT LESS THAN THE THICKNESS OF THE LONGITUDINAL FACE SHELLS. UNLESS THE WALL IS TO BE POURED SOLID, END WALLS AND CROSS WEBS FORMING CELLS TO BE FILLED SHALL BE FULLBEDDED IN MORTAR TO PREVENT LEAKAGE OF GROUT.
16. ALL DOWELS, ANCHOR BOLTS, AND HEADED STUDS SHALL BE SET IN SOLID GROUTED CELLS.
17. GROUT ALL CELLS SOLID BELOW GRADE.

DEFERRED SUBMITTALS NOTES

1. DEFERRED SUBMITTALS ARE PORTIONS OF THE OVERALL DESIGN WHICH ARE NOT SUBMITTED AT TIME OF PERMIT APPLICATION AND ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL.
2. DEFERRED SUBMITTALS WILL BE REVIEWED FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. SUBMITTAL REVIEW WILL NOT BE CONDUCTED FOR THE PURPOSE OF DETERMINING THE ACCURACY AND COMPLETENESS OF OTHER DETAILED INFORMATION SUCH AS DIMENSIONS AND QUANTITIES, OR FOR SUBSTANTIATING INSTRUCTIONS FOR INSTALLATION OR SYSTEMS DESIGNED BY THE CONTRACTOR WHICH REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.

   REVIEW SHALL NOT CONSTITUTE APPROVAL OF SAFETY PRECAUTIONS OR OF ANY CONSTRUCTION MEANS, METHODS, SEQUENCES OR PROCEDURES.

   APPROVAL OF A SPECIFIC ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT.
3. FOLLOWING DEFERRED SUBMITTALS ARE TO BE PROVIDED FOR REVIEW:
   A. CONCRETE FORMWORK / RETENTION SYSTEMS
   B. STEEL BEAM AND VERTICAL BRACING CONNECTIONS
   C. STEEL FRAMING CONNECTION CALCULATIONS

   SUPPLIER'S ENGINEERS SHALL PROVIDE SIGNED AND SEALED CALCULATIONS WITH THE SUBMITTAL FOR REVIEW.

   REVIEW WILL BE LIMITED TO CONFORMANCE WITH DESIGN AND PERFORMANCE CRITERIA SPECIFIED IN THE CONSTRUCTION DOCUMENTS AND THE INTERFACE BETWEEN THESE ITEMS/SYSTEMS AND THE BUILDING STRUCTURE. THE MANUFACTURER/SUPPLIER AND ITS SPECIALTY STRUCTURAL ENGINEER REMAIN RESPONSIBLE FOR THE DESIGN OF THE ITEM/SYSTEM WILL RETAIN ALL RIGHTS AND RESPONSIBILITIES FOR THE DESIGN OF THE PRODUCT AND THE CONNECTIONS TO THE BUILDING STRUCTURE.

   NO WORK ON STRUCTURAL ELEMENTS SUPPORTING OR RELATED TO THESE ITEMS IS TO PROCEED UNLESS THE REVIEW STAMP CLEARLY INDICATES "REVIEWED" OR "REVIEWED, SEE COMMENTS" BY THE ENGINEER.
4. FOLLOWING SHOP DRAWINGS ARE TO BE PROVIDED FOR APPROVAL:

   A. CONCRETE MIXES
   B. REINFORCING STEEL
   C. STRUCTURAL STEEL
   D. STEEL JOISTS AND JOIST GIRDERS
   E. METAL DECKING
   F. MASONRY WALL REINFORCING

   SHOP DRAWINGS ARE TO BE DISTRIBUTED ONLY FROM RETURNED SUBMITTALS BEARING AN INITIALED REVIEW STAMP AND WORK ON THESE ITEMS SHALL NOT PROCEED UNLESS THE STAMP CLEARLY INDICATES THE DRAWINGS ARE "APPROVED" OR "APPROVED AS NOTED."
5. CONCRETE IS A MATERIAL DESIGNED BY THE SUPPLIER TO MEET THE STRENGTH AND PERFORMANCE CRITERIA SPECIFIED IN THE CONTRACT DOCUMENTS. CONCRETE MIX DESIGNS SHALL BE IN CONFORMANCE WITH ACI 318. SUBMIT MIX DESIGNS AND THE TESTING LAB REVIEW TO THE ARCHITECT/ENGINEER FOR REVIEW.

   MANY VARIABLES, INCLUDING ENVIRONMENTAL CONDITIONS AFFECT THE QUALITY OF CONCRETE. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING VARIABLES AND REQUESTING MIX MODIFICATIONS AND SHALL BE SOLELY RESPONSIBLE FOR THE QUALITY OF CONCRETE DELIVERED AND PLACED ON THE SITE.
6. BEFORE SUBMISSION FOR REVIEW, GENERAL CONTRACTOR SHALL PRE-CHECK SUBMITTALS. SUBMITTALS MUST BEAR AN INITIALED REVIEW STAMP OF THE GENERAL CONTRACTOR. SUBMITTALS WITHOUT REVIEW STAMPS WILL BE RETURNED WITHOUT REVIEW AND SHALL NOT BE CAUSE FOR CLAIMS OF DELAY.
7. SCHEDULE SUBMITTALS SUFFICIENTLY IN ADVANCE OF THE DATE REQUIRED TO ALLOW REASONABLE TIME FOR PROCESSING AND REVIEW BY THE DESIGN TEAM. THIS SHALL INCLUDE A MINIMUM OF TEN WORKING DAYS FOR ENGINEER'S PROCESSING AND REVIEW. INCLUDE TIME FOR CONTRACTOR'S RESUBMISSION AND SUBSEQUENT REVIEW IF NECESSARY.

   SHORTER REVIEW PERIODS WILL ONLY BE HONORED WITH PRIOR WRITTEN CONSENT. THESE ACCELERATED SERVICES, AND APPROPRIATE COMPENSATION, MUST BE NEGOTIATED WITH THE ENGINEER AND ARCHITECT IN ADVANCE.

   TEN DAY REVIEW PERIODS CAN NOT BE HONORED WHEN LARGE QUANTITIES OF SHOP DRAWINGS ARE SUBMITTED AT ONE TIME. WHEN THIS HAPPENS, THE CONTRACTOR SHALL SUBMIT AN ITEMIZED LIST INDICATING PRIORITIES AND REASONABLE RETURN DATES.

   REVIEW OF RESUBMITTALS WILL BE LIMITED TO ONLY EARLIER COMMENTS AND IS NOT AN EXTENSIVE REVIEW.
8. USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS, INCLUDING THE USE OF ELECTRONIC FILES, BY ANY CONTRACTOR IN LIEU OF THE INDEPENDENT PREPARATION OF SHOP DRAWINGS, SIGNIFIES THEIR ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.
9. STRUCTURAL FRAMING WAS BASED ON PRE-BID MEP EQUIPMENT AND INITIAL ELEVATOR INFORMATION. MODIFICATIONS MAY BE NECESSARY IF DIFFERENT EQUIPMENT IS SELECTED OR IF DIFFERENT CRITERIA ARE REQUIRED. BASED ON THE EXTENT OF THE CHANGES, ADDITIONAL SERVICES FOR STRUCTURAL REDESIGN MAY BE REQUIRED. GENERAL CONTRACTOR SHALL INCLUDE A CONTINGENCY FOR THIS REVISED DESIGN AND CONSTRUCTION WORK. COSTS OF THE DESIGN AND CONSTRUCTION REVISIONS SHALL BE BORNE BY THE CONTRACTOR.

   GENERAL CONTRACTOR TO SUBMIT FINAL WEIGHTS AND CUT-SHEETS FOR REVIEW AND APPROVAL IF EQUIPMENT DIFFERS FROM WHAT IS SHOWN ON THE CONSTRUCTION DOCUMENTS.

GEOTECHNICAL INFORMATION

1. FOUNDATION DESIGN AND SUBSURFACE INFORMATION IS BASED ON GEOTECHNICAL REPORT #26-162 PREPARED FOR THIS PROJECT BY LARRY M JACOBS & ASSOCIATES, INC AND DATED MAY 1, 2026 & EMAIL RESPONSE DATED SEPTEMBER 1, 2026.
2. GEOTECHNICAL ENGINEER OF RECORD (GER) IS SOLELY RESPONSIBLE FOR ESTABLISHING FOUNDATION, SLAB-ON-GRADE AND PAVEMENT DESIGN CRITERIA, AND FOR THE CONSTRUCTION RECOMMENDATIONS FOR EXCAVATION, SUBGRADE PREPARATION, BACKFILLING AND COMPACTION.
3. GEOTECHNICAL INFORMATION INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS IS INTENDED TO REPLICATE THE RECOMMENDATIONS STATED IN THE GEOTECHNICAL ENGINEERING REPORT. PRESENTATION OF THIS INFORMATION IN THE STRUCTURAL DOCUMENTS DOES NOT DEMONSTRATE, STATE OR IMPLY GEOTECHNICAL EXPERTISE BY THE STRUCTURAL ENGINEER. CONTRACTOR SHALL OBTAIN A COPY OF THE REPORT AND COMPLY WITH THE RECOMMENDATIONS INDICATED THEREIN.
4. IF DISCREPANCIES BETWEEN THE REPORT AND CONSTRUCTION DOCUMENTS ARE DISCOVERED, THE REPORT SHALL GOVERN. ALL CLARIFICATIONS AND INTERPRETATIONS OF THE REPORT SHALL BE MADE BY THE GER AND REPORTED TO THE ARCHITECT FOR COORDINATION WITH THE DESIGN TEAM.

SHALLOW FOUNDATION NOTES

1. BEARING STRATA SHOWN ON THE DETAILS IS COMPACTED NATIVE SOILS. PREPARE FOUNDATION BEARING MATERIAL PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
2. FOUNDATION ALLOWABLE DESIGN SOIL VALUES:

   CONTINUOUS FOOTING BEARING - 1.5ksf *
   ISOLATED FOOTING BEARING - 1.5ksf *
   SOIL SLIDING RESISTANCE (NATIVE SOIL) 0.5

   * IF CONTINUOUS FOOTING OR ISOLATED FOOTING WIDTH EXCESS 3FT IN DIMENSION, THE SOIL BENEATH FOOTING SHALL HAVE ADDITIONAL 2FT OF SOIL COMPACTION PER GEOTECHNICAL REPORT.

   RETAINING WALL DESIGN VALUES
   SOIL DENSITY Ys- 95PCF (VERY LOOSE SLIGHTLY SILTY SAND)
   AT REST Ka- 0.4xYd
   PASSIVE PRESSURE Kp- 2.5XYd
3. ALL FOOTING EXCAVATIONS SHALL BE CLEANED TO REMOVE ALL LOOSE SOIL MATERIAL AND OTHER DEBRIS AND SHOULD NOT BE ALLOWED TO DESICCATE PRIOR TO PLACEMENT OF CONCRETE.
4. CONCRETE FOR FOUNDATIONS SHALL BE FORMED ON THE SIDES (EARTH FORMED FOUNDATIONS WILL NOT BE ALLOWED). PROPERLY PLACE AND COMPACT FILL MATERIAL AROUND SIDES OF FOOTINGS.
5. ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY THE TESTING AGENCY.

TRENCH SAFETY

1. THE CONTRACTOR SHALL PROVIDE TRENCH SAFETY DESIGN DOCUMENTS PREPARED AND SEALED BY A QUALIFIED REGISTERED PROFESSIONAL ENGINEER AS REQUIRED BY ALL LOCAL AND STATE LAWS. SAID ENGINEER SHALL ALSO BE RESPONSIBLE FOR ON SITE OBSERVATIONS. THE TRENCH SAFETY DESIGN DOCUMENTS SHALL BE FILED WITH THE APPROPRIATE GOVERNMENT AGENCY. THE CONTRACTOR SHALL FURNISH A SEPARATE AND DISTINCT PRICE FOR TRENCH SAFETY SYSTEM THAT MEETS OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION STANDARDS.

SLAB-ON-GRADE NOTES

1. FLOOR SLAB SHALL BE 5" THICK CONCRETE SLAB OVER A 15 MIL VAPOR RETARDER, OVER SUBGRADE PREPARED PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. TAPE ALL SEAMS, PENETRATIONS AND TEARS IN THE VAPOR RETARDER WITH A COMPATIBLE WATERPROOF TAPE.
2. REINFORCE SLAB WITH #3 @ 18" CTRS. EACH WAY PLACED AND SUPPORTED ON CHAIRS OR CONCRETE BRIQUETS, AT SLAB MID DEPTH.
3. PROVIDE ONE OF THE FOLLOWING JOINTS ON THE CENTERLINE OF ALL COLUMNS, AND @ 15' O.C. MAXIMUM.

   A. CONSTRUCTION JOINTS WHERE DETAILED ON DRAWINGS.
   B. SAW CUT CONTROL JOINTS ELSEWHERE 1 1/4" DEEP OR ONE QUARTER OF THE SLAB DEPTH DEEP, WHICHEVER IS GREATER.
4. A METAL CONTROL JOINT FORM MAY BE USED IN LIEU OF EITHER OF THE ABOVE.
5. CUT SAW CUT JOINTS WITHIN 8 HOURS OF POURING CONCRETE.
6. CONCRETE FINISHES AND SPRAY ON CURRING / SEALING COMPOUNDS SHALL BE COORDINATED WITH ARCHITECTURAL FLOORING FINISHES FOR COMPATIBILITY.

DESIGN DATA

1. THE DESIGN OF THE STRUCTURE AND PARTS THEREOF IS IN ACCORDANCE WITH THE 8TH EDITION OF FLORIDA BUILDING CODE, AS AMENDED AND ADOPTED BY ESCAMBIA COUNTY.

2. FLOOR LIVE LOADS.

AREA	UNIFORM	CONCENTRATED	IMPACT	LIVE LOAD REDUCTION
OFFICES	50 psf	2.0 kips	-	YES, PER FBC 1607.13.1
OFFICE CORRIDORS 1ST FLOOR	100 psf	2.0 kips	-	YES, PER FBC 1607.13.1
OFFICE CORRIDORS OTHER FLOORS	80 psf	2.0 kips	-	YES, PER FBC 1607.13.1
ASSEMBLY AREAS	100 psf	- kips	-	YES, PER FBC 1607.13.1
STORAGE LIGHT	125 psf	- kips	-	YES, PER FBC 1607.13.1.2

3. ROOF LIVE LOADS:

AREA	UNIFORM	SPECIAL COMMENTS	LIVE LOAD REDUCTION
ROOF, GENERAL	20 psf	-	YES, PER FBC 1607.14
ROOF, EQUIP LOADS		SEE ROOF PLAN	

4. SNOW LOADS: NOT APPLICABLE PER FBC

5. WIND DESIGN DATA:

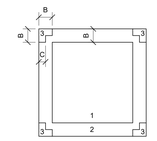
BASIC WIND SPEED (3 SECOND GUST)	156 mph
TORNADO SPEED, V_t	N/A
ASD WIND SPEED V_{asd}	121 mph
EFFECTIVE PLAN AREA	N/A
RISK CATEGORY	II
WIND EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT	+/- 0.18
COMPONENTS AND CLADDING	PER ASCE 7-22

FACTORED COMPONENTS AND CLADDING WALL LOADS			
	POSITIVE PRESSURE (psf)	NEGATIVE PRESSURE (psf)	
AREA (SQ FT)	INTERIOR & CORNER ZONE	INTERIOR ZONE	CORNER ZONE
LESS THAN 10	50	-54	-65
50	45	-49	-56
200	40	-44	-47
GREATER THAN 500	37	-41	-41

CORNER ZONE IS A DISTANCE OF 3'-0" FROM WALL CORNERS
LINEAR INTERPOLATE FOR LOADS BETWEEN SPECIFIED AREAS

FACTORED COMPONENTS AND CLADDING ROOF LOADS				
	POSITIVE PRESSURE (psf)	NEGATIVE PRESSURE (psf)		
AREA (SQ FT)	ALL ZONES 1, 2, & 3	ZONE 1	ZONE 2	ZONE 3
LESS THAN 10	22	-95	-125	-170
100	17	-74	-98	-117
200	17	-68	-90	-101
GREATER THAN 500	17	-59	-80	-80

PERIMETER ZONE, "B" IS A DISTANCE OF 21'-6" FROM EDGE OF BUILDING
CORNER ZONE, "S-3" IS A DISTANCE OF 15'-6" FROM EDGE OF BUILDING
LINEAR INTERPOLATE FOR LOADS BETWEEN SPECIFIED AREAS



ROOF WIND LO

COLD FORMED METAL FRAMING NOTES

1. ALL STUDS AND/OR JOISTS AND ACCESSORIES SHALL BE OF THE TYPE, SIZE, GAUGE AND SPACING SHOWN ON THE DRAWINGS AND CONFORM WITH THE PROPERTIES OF LIGHT GAGE MEMBERS AS INDICATED IN THE STEEL STUD MANUFACTURER'S ASSOCIATION – PRODUCT TECHNICAL INFORMATION (ICC-#3064P).

2. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" LATEST EDITION.

3. ALL FRAMING MEMBERS SHALL BE FORMED FROM CORROSION-RESISTANT STEEL (G90), CORRESPONDING TO THE REQUIREMENTS OF ASTM A653, WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 33mil (20 GA) AND 43 mil (18 GA) STUDS, 50 KSI FOR 54 mil AND HEAVIER (16 GA, 14 GA, AND 12 GA) STUDS, AND 33 KSI FOR CR-STYLE RUNNERS.

4. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDING. SCREWS SHALL BE OF SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION. ALL WELDS SHALL BE TOUCHED UP WITH A ZINC-RICH PAINT.

5. TEMPORARY BRACING SHALL BE PROVIDED UNTIL ERECTION IS COMPLETED.

6. SPLICES IN STUDS SHALL NOT BE PERMITTED.

7. PROVIDE AND INSTALL BRIDGING AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE ASSEMBLY IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. AT WALLS THAT DO NOT HAVE SHEATHING ON BOTH FACES, PROVIDE QUANTITY AND TYPE OF BRIDGING TO ADEQUATELY BRIDGE ALL STUDS PER THE MANUFACTURER'S RECOMMENDATIONS.

POST-INSTALLED ANCHOR NOTES

1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REINFORCING OR POST-TENSIONING.

2. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

3. POST-INSTALLED ANCHORS INCLUDE EXPANSION ANCHORS, UNDERCUT ANCHORS AND ADHESIVE ANCHORS. ADHESIVE ANCHORS SHALL CONSIST OF A STRUCTURAL ADHESIVE AND STEEL INSERT. STEEL INSERTS SHALL BE EITHER ASTM F1554, GRADE 36 THREADED ROD OR ASTM A615, GRADE 60 REINFORCING STEEL UNLESS NOTED OTHERWISE ON THE DRAWINGS. PROVIDE, STORE AND INSTALL PRODUCTS IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

4. EXPANSION ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. EXPANSION ANCHORS SHALL BE EITHER HILTI KWIK BOLT TZ ANCHORS OR SIMPSON STRONG-TIE STRONG-BOLT 2 ANCHORS, UNLESS NOTED OTHERWISE ON DRAWINGS. EXPANSION ANCHORS SHALL BE 3/4" DIAMETER WITH 4 3/4" EMBEDMENT UNLESS NOTED OTHERWISE ON THE DRAWINGS.

5. EXPANSION ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC01. EXPANSION ANCHORS IN CMU SHALL BE EITHER HILTI KWIK BOLT 3 ANCHORS OR SIMPSON STRONG-TIE WEDGE-ALL ANCHORS.

6. UNDERCUT ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. UNDERCUT ANCHORS SHALL BE EITHER HILTI HDA ANCHORS OR SIMPSON STRONG-TIE TORQ-CUT ANCHORS, UNLESS NOTED OTHERWISE ON DRAWINGS.

7. STRUCTURAL ADHESIVES FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308. STRUCTURAL ADHESIVES SHALL BE HILTI HIT-RE 500-SD EPOXY, HILTI HIT-HY 200-A ADHESIVE, SIMPSON STRONG-TIE SET-XP ADHESIVE OR SIMPSON STRONG-TIE AT-XP ADHESIVE UNLESS NOTED OTHERWISE ON THE DRAWINGS. REFER TO DRAWINGS FOR SIZE AND EMBEDMENT REQUIREMENTS. ALL THREADED RODS USED IN EXTERIOR EXPOSURES SHALL BE GALVANIZED.

8. THE FOLLOWING PARAMETERS HAVE BEEN USED IN THE DESIGN OF ALL ADHESIVE ANCHORS UNLESS NOTED OTHERWISE ON THE DRAWINGS:

   A. MINIMUM AGE OF CONCRETE – 28 DAYS
   B. CONCRETE TEMPERATURE RANGE FOR ANCHORS NOT EXPOSED TO THE ENVIRONMENT – MAXIMUM SHORT TERM TEMPERATURE OF 104°F. MAXIMUM LONG TERM TEMPERATURE OF 75°F.
   C. CONCRETE TEMPERATURE RANGE FOR ANCHORS EXPOSED TO THE ENVIRONMENT – MAXIMUM SHORT TERM TEMPERATURE OF 150°F. MAXIMUM LONG TERM TEMPERATURE OF 110°F.
   D. MOISTURE CONDITION OF CONCRETE AT THE TIME OF INSTALLATION – DRY CONCRETE
   E. HOLE DRILLING AND PREPARATION – PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS

9. STRUCTURAL ADHESIVES FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58. STRUCTURAL ADHESIVES SHALL BE HILTI HIT-HY 70 ADHESIVE, SIMPSON STRONG-TIE SET ADHESIVE, OR SIMPSON STRONG-TIE AT ADHESIVE UNLESS NOTED OTHERWISE ON THE DRAWINGS. REFER TO DRAWINGS FOR SIZE AND EMBEDMENT REQUIREMENTS. ALL THREADED RODS USED IN EXTERIOR EXPOSURES SHALL BE GALVANIZED.

10. ANCHOR CAPACITY IS DEPENDANT UPON THE SPACING BETWEEN ADJACENT ANCHORS AND THE PROXIMITY OF ANCHORS TO THE EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH THE SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

11. PRIOR TO PLACEMENT, THE CONTRACTOR SHALL HAVE THE MANUFACTURER'S TECHNICAL REPRESENTATIVE VISIT THE SITE TO INSTRUCT THE CONSTRUCTION TEAM AND TESTING LAB ON PROPER STORAGE AND INSTALLATION TECHNIQUES. THE CONTRACTOR SHALL PROVIDE A LETTER FROM THE MANUFACTURER'S REPRESENTATIVE STATING THAT SUCH A VISIT WAS CONDUCTED.

12. ALL EXPANSION ANCHORS SHALL BE INSPECTED BY AN INDEPENDENT TESTING LAB FOR THE FOLLOWING:

   A. CORRECT LOCATION AND POSITION OF HOLE.
   B. CORRECT HOLE DIAMETER
   C. CORRECT EMBEDMENT DEPTH.
   D. CORRECT BOLT TYPE AND FINISH.
   E. CONDITION OF HOLE IN CONNECTION MATERIAL (NO BURNING OF HOLES ALLOWED).
   F. SNUG TIGHT FIT.

13. ADHESIVE ANCHORS SHALL BE INSPECTED AND TESTED BY AN INDEPENDENT TESTING LAB AS FOLLOWS:

   ALL ANCHORS SHALL BE INSPECTED FOR THE FOLLOWING:

   A. CORRECT LOCATION AND POSITION OF HOLE.
   B. CORRECT THREADED ROD OR REINFORCING BAR SIZE.
   C. CORRECT THREADED ROD OR REINFORCING BAR TYPE AND FINISH.
   D. CONDITION OF HOLE IN CONNECTION MATERIAL (NO BURNING OF HOLES ALLOWED).
   E. SNUG TIGHT FIT.
   F. CORRECT EMBEDMENT DEPTH.
   G. HOLE PREPARATION (INCLUDING DRILL BIT TYPE WHERE CRITICAL TO MANUFACTURER) AND CLEANOUT PER MANUFACTURER'S RECOMMENDATIONS.
   H. ADHESIVE TYPE, EXPIRATION DATE AND METHOD OF STORAGE.
   I. ADHESIVE AND ANCHOR INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.
   J. 10% OF EACH TYPE AND SIZE OF ANCHOR SHALL BE PROOF LOADED PER THE MANUFACTURER'S RECOMMENDATIONS. IF 10% OF THE TESTED ANCHORS FAIL TO ACHIEVE THE SPECIFIED PROOF LOAD, ALL ANCHORS OF THE SAME DIAMETER AND TYPE SHALL BE TESTED.

14. THE TESTING LAB SHALL PREPARE AN INSPECTION REPORT SPECIFICALLY INDICATING DEGREE OF CONFORMANCE IN ALL CATEGORIES LISTED ABOVE.

STEEL JOIST NOTES

1. STEEL JOISTS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND LOAD TABLE FOR OPEN WEB STEEL JOISTS, ADOPTED BY THE STEEL JOIST INSTITUTE LATEST EDITION.

2. JOIST MANUFACTURER SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE. JOIST ERECTION SHALL CONFORM TO ALL APPLICABLE SAFETY STANDARDS.

3. WHEN SPECIAL JOISTS ARE INDICATED ON PLAN (SP), COMPLY WITH THE STANDARD SPECIFICATIONS AND SPECIAL DESIGN CRITERIA AS NOTED ON THE DRAWINGS. SPECIAL DESIGN CRITERIA MAY INCLUDE LOADING, END MOMENTS, WIND UPLIFT, DEFLECTION LIMITS, MAXIMUM WIDTHS, SPECIAL BRIDGING, BOTTOM CHORD BRACING, CHORD STIFFENERS, BEARING CONDITIONS, SPECIAL SEATS, SPECIAL CHORD CONFIGURATIONS, CLEARANCE FOR DUCTS THROUGH MEMBERS, ETC. PROVIDE ALL ACCESSORIES REQUIRED TO COMPLY WITH THE STANDARD SPECIFICATIONS AND THE DESIGN CRITERIA.

4. DESIGN ALL JOISTS TO RESIST NET WIND UPLIFT FORCES FROM ROOF C&C TABLE ON S001. JOIST DESIGNER TO ASSUME 10 PSF DEAD LOAD TO RESIST WIND UPLIFT TO GET CALCULATED NET UPLIFT FOR JOIST DESIGN. REFER TO PLANS FOR ANY SPECIAL CONDITIONS.

5. ALL HANGERS SUPPORTING MECHANICAL EQUIPMENT, ETC., FROM THE BOTTOM CHORD OF STEEL JOISTS SHALL BE LOCATED AT THE PANEL POINTS OF THE JOISTS.

6. EXTEND BOTTOM CHORDS OF ALL JOISTS CENTERED ON COLUMNS AND WELD THE BOTTOM CHORDS TO THE COLUMNS AND/OR WALLS EACH END. DO NOT CONNECT BOTTOM CHORDS OF JOISTS TO THE COLUMNS UNTIL THE ROOF (AND/OR) FLOOR DEAD LOAD IS APPLIED.

7. PROVIDE BOTTOM CHORD CEILING EXTENSIONS WHERE REQUIRED BY ARCHITECTURAL DETAILS.

8. JOIST BRIDGING SHALL BE FURNISHED AND INSTALLED TO MEET THE DESIGN AND SPACING REQUIREMENTS OF THE STEEL JOIST INSTITUTE SPECIFICATIONS FOR OPEN WEB JOISTS. PROVIDE BOLTED DIAGONAL BRIDGING FOR ERECTION STABILITY AS REQUIRED BY THE STANDARD SPECIFICATIONS, THE GOVERNING BUILDING CODE AND/OR OSHA. PROVIDE ADDITIONAL BRIDGING AS REQUIRED BY DESIGN TO RESIST WIND UPLIFT FORCES INDICATED IN NOTES OR ON DRAWINGS, INCLUDING A SINGLE LINE OF BOTTOM CHORD BRIDGING NEAR THE FIRST BOTTOM CHORD PANEL POINT AT EACH END OF JOISTS.

9. DEPTH OF JOISTS SEATS SHALL BE 2 1/2" FOR SHORT SPAN JOISTS AND 5" FOR LONG SPAN JOISTS UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

10. PROVIDE DOUBLE ANGLES IN LIEU OF RODS FOR BOTTOM CHORD OF ALL JOISTS.

11. JOISTS SHALL BE WELDED TO SUPPORTING STEEL MEMBERS.

12. PROVIDE FLAT BEARING FOR ALL JOISTS.

13. THE FOLLOWING MINIMUM BEARING LENGTHS PARALLEL TO THE LENGTH OF THE JOIST SHALL BE PROVIDED PER SJI STANDARD SPECIFICATIONS.

BEARING ON STEEL	2 1/2"
BEARING ON CONC OR MASONRY W/BEARING PLATE	4"

14. WHERE END ANCHORAGE FOR JOISTS ARE NOT SHOWN OR NOTED, THE FOLLOWING MINIMUM ANCHORAGES SHALL BE PROVIDED:

   STEEL SUPPORTS:

   TWO 1/8" FILLET WELDS x 1" LONG OR EQUIVALENT WELD

   OR

   TWO 1/2" DIA A325 BOLTS.

   CONC OR MASONRY SUPPORTS:

   TWO 1/2" DIA x 6" LONG HEADED STUD ANCHORS WELDED TO STEEL BEARING PLATE AND FULLY EMBEDED IN CONC OR SOLID MASONRY UNIT.

15. JOISTS SHALL BE CAMBERED THE MINIMUM RECOMMENDED CAMBER AS INDICATED IN THE STEEL JOIST INSTITUTE SPECIFICATIONS.

16. WHERE JOISTS ARE UTILIZED, AND COLUMNS ARE NOT FRAMED IN AT LEAST TWO DIRECTIONS WITH STRUCTURAL STEEL MEMBERS, A JOIST SHALL BE FIELD BOLTED AT COLUMNS (EACH END OF JOIST) TO PROVIDE LATERAL STABILITY DURING CONSTRUCTION.

17. DAMAGED JOISTS WILL BE REJECTED. THE CONTRACTOR AND THE JOIST MANUFACTURER SHALL BE RESPONSIBLE FOR REPAIRING AND/OR REPLACING DAMAGED JOISTS. ALL REPAIRS SHALL BE ENGINEERED BY THE JOIST MANUFACTURER AND REPAIR DETAILS, SIGNED AND SEALED BY A REGISTERED ENGINEER (IN THE STATE OF THE PROJECT) SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW. AN INDEPENDENT TESTING LAB SHALL INSPECT ALL REPAIRS. AFTER SUCCESSFUL COMPLETION OF THE REPAIR WORK, THE JOIST MANUFACTURER SHALL SUBMIT THE TESTING AGENCY'S REPORTS ALONG WITH A LETTER STATING THAT THE DAMAGED MEMBERS HAVE BEEN SATISFACTORILY REPAIRED.

18. HANGERS AND OTHER SUPPORTS FOR MECHANICAL, ELECTRICAL, PLUMBING, ETC SHALL BE LOCATED AT THE INTERSECTION OF THE CHORD AND WEB (PANEL POINT). CONCENTRATED LOADS IN EXCESS OF 200 LBS MUST BE APPROVED BY THE ENGINEER OF RECORD.

19. ALL PIPING LARGER THAN 4", PARALLEL TO JOISTS, SHALL BE HUNG FROM A MINIMUM OF TWO JOISTS, AND SUPPORTS SHALL BE ATTACHED AT PANEL POINTS ONLY.

METAL ROOF DECK NOTES

1. ROOF METAL DECK SHALL BE 1 1/2" DEEP, 20 GAGE WIDE RIB GALVANIZED (G60) METAL DECK. (VULCRAFT TYPE 1.5 B 20 OR EQUIVALENT.) ASTM A1008 STRUCTURAL QUALITY MINIMUM YIELD POINT OF 50,000 PSI.

   A. DECK SHALL BE INSTALLED IN 3-SPAN LENGTHS ONLY. NO 2-SPAN CONDITIONS WILL BE ALLOWED.

   B. DECK CONNECTIONS SHALL BE AS FOLLOWS (UNLESS NOTED OTHERWISE ON PLAN):

   PERIMETER ZONE ATTACHMENT (REFER TO ROOF LOADING FOR DIMENSION 'B' ON S001)

   ATTACH TO SUPPORTS w/ HILTI-HSN24 PAF IN 36/7 PATTERN AND AT 6" O.C. AT PERIMETER. FASTEN SIDELAPS w/ #10 TEK SCREWS @ 12" PER SPAN.
   LRFD DESIGN DECK SHEAR= 928PLF UPLIFT= 105PSF

   INTERIOR ZONE ATTACHMENT

   ATTACH TO SUPPORTS w/ HILTI-HSN24 PAF IN 36/4 PATTERN AND AT 6" O.C. AT PERIMETER. FASTEN SIDELAPS w/ #10 TEK SCREWS @ 18" PER SPAN.
   LRFD DESIGN DECK SHEAR= 603PLF UPLIFT= 47PSF

2. ROOF METAL DECK SHALL BE 3" DEEP, 20 GAGE WIDE RIB GALVANIZED (G60) METAL DECK. (VULCRAFT TYPE 3" NLA 20 OR EQUIVALENT.) ASTM A1008 STRUCTURAL QUALITY MINIMUM YIELD POINT OF 50,000 PSI.

   A. DECK SHALL BE INSTALLED IN 3-SPAN LENGTHS ONLY. NO 2-SPAN CONDITIONS WILL BE ALLOWED.

   B. DECK CONNECTIONS SHALL BE AS FOLLOWS (UNLESS NOTED OTHERWISE ON PLAN):

   PERIMETER ZONE ATTACHMENT (REFER TO ROOF LOADING FOR DIMENSION 'B' ON S001)

   ATTACH TO SUPPORTS w/ HILTI-HSN24 PAF IN 32/5 PATTERN AND AT 6" O.C. AT PERIMETER. FASTEN SIDELAPS w/ #10 TEK SCREWS @ 18" PER SPAN.
   LRFD DESIGN DECK SHEAR= 259PLF UPLIFT= 72PSF

   INTERIOR ZONE ATTACHMENT

   ATTACH TO SUPPORTS w/ HILTI-HSN24 PAF IN 32/3 PATTERN AND AT 6" O.C. AT PERIMETER. FASTEN SIDELAPS w/ #10 TEK SCREWS @ 24" PER SPAN.
   LRFD DESIGN DECK SHEAR= 259PLF UPLIFT= 38PSF

3. SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL DECKS.

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Revisions

PROJECT NO. 2613
STATUS BID PACKAGE #2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
DRAWN BY RLG

GENERAL NOTES (CONTINUED) **S002**

REQUIRED VERIFICATION AND INSPECTION OF CMU CONSTRUCTION

1. SPECIAL INSPECTIONS FOR CMU CONSTRUCTION ARE BASED ON QUALITY ASSURANCE LEVEL 2 AND MINIMUM INSPECTIONS AS REQUIRED IN THE FOLLOWING TABLES.

QUALITY ASSURANCE VERIFICATIONS	ACTION	REFERENCED STANDARD	FBC REFERENCE	PROJECT SPECIFICATION SECTION
1. PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS	VERIFY	TMS 602 ART 1.5		
2. PRIOR TO CONSTRUCTION, VERIFICATION OF f'm AND FACE, EXCEPT WHERE SPECIFICALLY EXEMPTED BY CODE	VERIFY	TMS 602 ART 1.4B		
3. DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE	VERIFY	TMS 602 ART 1.5 & 1.6.3		
4. PRIOR TO CONSTRUCTION, VERIFICATION OF f'm AND FACC FOR EVERY 5,000 SQUARE FEET	NO ACTION	TMS 602 ART 1.4B		
5. DURING CONSTRUCTION, VERIFICATION OF PROPORTIONS OF MATERIALS AS DELIVERED TO THE PROJECT SITE FOR PREMIXED OR PRESLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT	NO ACTION	TMS 602 ART 1.4B		

MINIMUM INSPECTIONS TASK	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	FBC REFERENCE	PROJECT SPECIFICATION SECTION
1. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE					1705.4	042000, 3.13
a. PROPORTIONS OF SITE-PREPARED MORTAR		X		TMS 602 ART 2.1 & 2.6A & 2.6C		
c. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS.		X		TMS 602 ART 3.4 & 3.4A		
d. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X[b]	X[c]		TMS ART 2.1 C.1		
e. SAMPLE PANEL CONSTRUCTION		X		TMS 602 ART 1.6D		
2. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE						
a. GROUT SPACE		X		TMS 602 ART 3.2D & 3.2F		
b. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS		X		TMS 402 SEC. 6.1, 6.3.1, 6.3.6, 6.3.7 TMS 602 ART 3.2E & 3.4		
3. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION						
a. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS		X		TMS 602 ART 1.5		
b. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION		X		TMS 602 ART 3.3B		
c. SIZE AND LOCATION OF STRUCTURAL MEMBERS		X		TMS 602 ART 3.3F		
d. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		X		TMS 402 SEC. 1.2.1(e), 6.2.1 & 6.3.1		
e. WELDING OF REINFORCEMENT	X			TMS 402 SEC. 6.1.6.1.2		
f. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F)		X		TMS 602 ART 1.8C & D		
g. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	X[b]	X[c]		TMS 602 ART 3.3 B.9 & 3.3 F.1.b		
4. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS.		X		TMS 602 ART 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, B.3.b, 1.4 B.4		

(b) REQUIRED FOR THE FIRST 5,000 SQUARE FEET OF AAC MASONRY.
(c) REQUIRED AFTER THE FIRST 5,000 SQUARE FEET OF AAC MASONRY.

STRUCTURAL STEEL INSPECTION CONTINUED

TABLE N5.6-1
INSPECTION TASKS PRIOR TO BOLTING

VERIFICATION AND INSPECTION	QUALITY CONTROL	QUALITY ASSURANCE	REFERENCED STANDARD	FBC REFERENCE	PROJECT SPECIFICATION SECTION
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS.	O	P			
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS.	O	O			
3. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE).	O	O			
4. CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL.	O	O			
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS.	O	O			
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED.	P	O			
7. PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS.	O	O			

TABLE N5.6-2
INSPECTION TASKS DURING BOLTING

VERIFICATION AND INSPECTION	QUALITY CONTROL	QUALITY ASSURANCE	REFERENCED STANDARD	FBC REFERENCE	PROJECT SPECIFICATION SECTION
1. FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED.	O	O			
2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION.	O	O			
3. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.	O	O			
4. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.	O	O			

TABLE N5.6-3
INSPECTION TASKS AFTER BOLTING

VERIFICATION AND INSPECTION	QUALITY CONTROL	QUALITY ASSURANCE	REFERENCED STANDARD	FBC REFERENCE	PROJECT SPECIFICATION SECTION
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.	P	P			

REQUIRED VERIFICATION AND INSPECTION OF METAL DECK CONSTRUCTION

1. SPECIAL INSPECTIONS OF METAL DECKING IN BUILDINGS, STRUCTURES AND PORTIONS THEREOF SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	FBC REFERENCE	PROJECT SPECIFICATION SECTION
1. INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT				MANUFACTURER'S APPROVED SHOP DRAWINGS	FBC 1705.2.2 SDI QA/QC	053000, 3.04
a. VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS		X				
b. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES		X				
2. INSPECTION OR EXECUTION TASKS AFTER TO DECK PLACEMENT						
a. VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS		X				
b. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES		X				
c. DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES		X				
3. INSPECTION OR EXECUTION TASKS PRIOR TO WELDING						
a. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE		X				
b. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE		X				
c. MATERIAL IDENTIFICATION (TYPE/GRADE)		X				
d. CHECK WELDING EQUIPMENT		X				
4. INSPECTION OR EXECUTION TASKS DURING WELDING						
a. USE OF QUALIFIED WELDERS		X				
b. CONTROL AND HANDLING OF WELDING CONSUMABLES		X				
c. ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)		X				
d. WPS FOLLOWED		X				
5. INSPECTION OR EXECUTION TASKS AFTER WELDING						
a. VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS		X				
b. WELDS MEET VISUAL ACCEPTANCE CRITERIA		X				
c. VERIFY REPAIR ACTIVITIES		X				
d. DOCUMENT ACCEPTANCE OR REJECTION OF WELDS		X				
6. INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING						
a. MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS		X				
b. PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION		X				
c. PROPER STORAGE FOR MECHANICAL FASTENERS		X				
7. INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING						
a. FASTENERS ARE POSITIONED AS REQUIRED		X				
b. FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION		X				
8. INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING						
a. CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS		X				
b. CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS		X				
c. CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS		X				
d. VERIFY REPAIR ACTIVITIES		X				
e. DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS		X				

REQUIRED VERIFICATION AND INSPECTION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

1. SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND GIRDERS IN BUILDINGS, STRUCTURES AND PORTIONS THERE OF SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE COMPLIANCE.

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	FBC REFERENCE	PROJECT SPECIFICATION SECTION
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS.					1705.2.3	052100, PART 3, FIELD QUALITY CONTROL
a. END CONNECTIONS - WELDING OR BOLTED.		X		SJI SPECIFICATIONS LISTED IN SECTION 2207.1.		
b. BRIDGING - HORIZONTAL OR DIAGONAL						
1. STANDARD BRIDGING.		X		SJI SPECIFICATIONS LISTED IN SECTION 2207.1.		
2. BRIDGING THAT DIFFERS FROM SJI SPECIFICATIONS LISTED IN SECTION 2207.1.		X				

REQUIRED SPECIAL INSPECTION AND TESTS OF STEEL CONSTRUCTION

1. SPECIAL INSPECTIONS FOR STEEL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360, AS REQUIRED IN THE FOLLOWING TABLES.
2. IN THE FOLLOWING TABLES THE INSPECTION TABLE WILL HAVE (O) FOR OBSERVED, (P) PERFORM IN ACCORDANCE TO AISC 360.

TABLE N5.4-1
INSPECTION TASKS PRIOR TO WELDING

VERIFICATION AND INSPECTION	QUALITY CONTROL	QUALITY ASSURANCE	REFERENCED STANDARD	FBC REFERENCE	PROJECT SPECIFICATION SECTION
1. WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS.	P	O			
2. WPS AVAILABLE.	P	P			
3. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P			
4. MATERIAL IDENTIFICATION (TYPE/GRADE).	O	O			
5. WELDER IDENTIFICATION SYSTEM.[H]	O	O			
6. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) a. JOINT PREPARATIONS. b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL). c. CLEANLINESS (CONDITION OF STEEL SURFACES). d. TACKING (TACK WELD QUALITY AND LOCATION). e. BACKING TYPE AND FIT (IF APPLICABLE).	O	O			
7. FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY) a. JOINT PREPARATIONS. b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL). c. CLEANLINESS (CONDITION OF STEEL SURFACES). d. TACKING (TACK WELD QUALITY AND LOCATION).	P	O			
8. CONFIGURATION AND FINISH OF ACCESS HOLES.	O	O			
9. FIT-UP OF FILLET WELDS. a. DIMENSIONS (ALIGNMENT, GAPS AT ROOT). b. CLEANLINESS (CONDITION OF STEEL SURFACES). c. TACKING (TACK WELD QUALITY AND LOCATION).	O	O			
10. CHECK WELDING EQUIPMENT	O	-			

[H] THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.

TABLE N5.4-2
INSPECTION TASKS DURING WELDING

VERIFICATION AND INSPECTION	QUALITY CONTROL	QUALITY ASSURANCE	REFERENCED STANDARD	FBC REFERENCE	PROJECT SPECIFICATION SECTION
1. CONTROL AND HANDLING OF WELDING CONSUMABLES. a. PACKAGING. b. EXPOSURE CONTROL.	O	O			
2. NO WELDING OVER CRACKED TACK WELDS.	O	O			
3. ENVIRONMENTAL CONDITIONS. a. WIND SPEED WITHIN LIMITS. b. PRECIPITATION AND TEMPERATURE.	O	O			
4. WPS FOLLOWED. a. SETTINGS ON WELDING EQUIPMENT. b. TRAVEL SPEED. c. SELECTED WELDING MATERIALS. d. SHIELDING GAS TYPE/FLOW RATE. e. PREHEAT APPLIED. f. INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.). g. PROPER POSITION (F, V, H, OH).	O	O			
5. WELDING TECHNIQUES. A. INTERPASS AND FINAL CLEANING. B. EACH PASS WITHIN PROFILE LIMITATIONS. C. EACH PASS MEETS QUALITY REQUIREMENTS.	O	O			
6. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS.	P	P			

TABLE N5.4-3
INSPECTION TASKS AFTER WELDING

VERIFICATION AND INSPECTION	QUALITY CONTROL	QUALITY ASSURANCE	REFERENCED STANDARD	FBC REFERENCE	PROJECT SPECIFICATION SECTION
1. WELDS CLEANED.	O	O			
2. SIZE, LENGTH AND LOCATION OF WELDS.	P	P			
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA. a. CRACK PROHIBITION. b. WELD/BASE-METAL FUSION. c. CRATER CROSS SECTION. d. WELD PROFILES. e. WELD SIZE. f. UNDERCUT. g. POROSITY.	P	P			
4. ARC STRIKES.	P	P			
5. a-AREA.[H]	P	P			
6. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES.[H]	P	P			
7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED).	P	P			
8. REPAIR ACTIVITIES.	P	P			
9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER.	P	P			
10. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR.	O	O			

[a] WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE A-AREA, VISUALLY INSPECT THE WEB A-AREA FOR CRACKS WITHIN 3 in. (75 mm) OF THE WELD.

[b] AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1d) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.

INSPECTION OF FABRICATORS

1. WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES IS BEING CONDUCTED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS OF THE FABRICATED ITEMS SHALL BE PERFORMED DURING FABRICATION.
2. SPECIAL INSPECTIONS DURING FABRICATION ARE NOT REQUIRED WHERE THE FABRICATOR MAINTAINS APPROVED DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND THIS CODE. APPROVAL SHALL BE BASED UPON REVIEW OF FABRICATION AND QUALITY CONTROL PROCEDURES AND PERIODIC INSPECTION OF FABRICATION PRACTICES BY THE BUILDING OFFICIAL.
3. SPECIAL INSPECTIONS DURING FABRICATION ARE NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVAL SHALL BE BASED UPON REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED AGENCY AT COMPLETION OF FABRICATION. THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE OWNER OR THE OWNER'S AUTHORIZED AGENT FOR SUBMITTAL TO THE BUILDING OFFICIAL AS SPECIFIED IN SECTION 1704.5 STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS

REQUIRED VERIFICATION AND INSPECTION OF SOILS

1. VERIFICATION OF SOILS AND SPECIAL INSPECTIONS FOR SUBGRADE SHALL BE AS REQUIRED IN THE FOLLOWING TABLE.
2. THE GEOTECHNICAL ENGINEERING REPORT, AND THE CONSTRUCTION DOCUMENTS SHALL BE USED TO DETERMINE COMPLIANCE.
3. REFER TO PROJECT SPECIFICATIONS FOR QUANTITY AND FREQUENCY OF INSPECTIONS AND TESTS.

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	FBC REFERENCE	PROJECT SPECIFICATION SECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		X		GEOTECHNICAL ENGINEERING REPORT	1705.6	312303, 3.14
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X				
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		X				
4. DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS IN ACCORDANCE WITH PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITY AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X					
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		X				

REQUIRED VERIFICATION AND INSPECTION OF THE UNDERSLAB DRAINAGE COURSE

1. VERIFICATION OF SOILS AND SPECIAL INSPECTIONS FOR THE UNDERSLAB DRAINAGE COURSE SHALL BE AS REQUIRED IN THE FOLLOWING TABLE.
2. THE GEOTECHNICAL ENGINEERING REPORT, AND THE APPROVED CONSTRUCTION DOCUMENTS PREPARED BY THE REGISTERED DESIGN PROFESSIONALS; SHALL BE USED TO DETERMINE COMPLIANCE.
3. REFER TO PROJECT SPECIFICATIONS FOR QUANTITY AND FREQUENCY OF INSPECTIONS AND TESTS.

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	FBC REFERENCE	PROJECT SPECIFICATION SECTION
1. SITE PREPARATION: PRIOR TO PLACEMENT OF THE DRAINAGE COURSE, THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE SUBGRADE HAS BEEN PREPARED IN ACCORDANCE WITH THE APPROVED SOILS REPORT.		X		GEOTECHNICAL ENGINEERING REPORT	1705.6	312303, 3.14
2. DURING DRAINAGE COURSE PLACEMENT: DURING PLACEMENT AND COMPACTION OF THE DRAINAGE COURSE MATERIAL, THE SPECIAL INSPECTOR SHALL VERIFY THAT THE PROPER EQUIPMENT USED, THE MAXIMUM LIFT THICKNESS, THE OVERALL DEPTH OF MATERIAL AND THE USE OF FILTER FABRICS COMPLY WITH THE APPROVED GEOTECHNICAL REPORT.		X				
3. DURING INSTALLATION OF FILTER FABRICS, DRAINAGE MATS AND OTHER GEOTEXTILE FABRICS, THE SPECIAL INSPECTOR SHALL CONFIRM THAT THE MATERIALS AND METHOD OF INSTALLATION COMPLY WITH THE APPROVED GEOTECHNICAL REPORT AND CONSTRUCTION DOCUMENTS.		X				
4. EVALUATION OF IN-PLACE DENSITY: THE SPECIAL INSPECTOR SHALL DETERMINE, AT THE APPROVED FREQUENCY, THAT THE IN-PLACE DRY DENSITY OF THE COMPACTED MATERIAL COMPLIES WITH THE APPROVED REPORT.	X					

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

1. SPECIAL INSPECTIONS AND VERIFICATIONS FOR CONCRETE CONSTRUCTION SHALL BE AS REQUIRED IN THE FOLLOWING TABLE.

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	FBC REFERENCE	PROJECT SPECIFICATION SECTION
1. INSPECT REINFORCEMENT, AND VERIFY PLACEMENT.		X		ACI 318 CH.20, 25.2, 25.3, 26.6.1-26.6.3	-	032000, 3.02
2. REINFORCING BAR WELDING:						
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		X		AWS D1.4 ACI 318: 26.6.4	-	032000, 3.02
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16", AND		X				
c. INSPECT ALL OTHER WELDS	X					
3. INSPECT ANCHORS CAST IN CONCRETE		X		ACI 318: 17.8.2	-	
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS						
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X			ACI 318:17.8.2.4		
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a		X		ACI 318: 17.8.2		
5. VERIFY USE OF REQUIRED DESIGN MIX		X		ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2	033000, 3.03
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X			ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	-	033000, 3.03
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X			ACI 318: 26.5	1908.6, 1908.7, 1908.8	
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	X			ACI 318: 26.4.7-26.4.9	1908.9	033000, 3.03
9. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		X		ACI 318: Ch. 26.11.2	-	033000, 3.03; 033816, 3.04
10. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		X		ACI 318:26.10.1(b)	-	031000, 3.05

STATEMENT OF SPECIAL INSPECTIONS

1. INFORMATION ON THIS SHEET IS BEING SUBMITTED IN ACCORDANCE WITH THE SPECIAL INSPECTIONS PROVISIONS OF THE 8TH EDITION OF FLORIDA BUILDING CODE. THIS INFORMATION CONSTITUTES THE SCHEDULE OF SPECIAL INSPECTIONS (SSI) REQUIRED FOR THIS PROJECT.
2. THE OWNER OR THE OWNER'S AUTHORIZED AGENT, OTHER THAN THE CONTRACTOR, SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PROVIDE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED HEREIN.
3. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
4. THE SPECIAL INSPECTOR SHALL FULFILL THE FOLLOWING REPORT REQUIREMENTS:
   a. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS.
   b. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE OWNER, THE GENERAL CONTRACTOR, THE STRUCTURAL ENGINEER, AND THE ARCHITECT. IN ADDITION, REPORTS RELATED TO GEOTECHNICAL ISSUES SHALL BE DISTRIBUTED TO THE GEOTECHNICAL ENGINEER. WHEN TESTS OR INSPECTIONS INDICATE THAT THE WORK DOES NOT COMPLY WITH THE CONSTRUCTION DOCUMENTS, THE SPECIAL INSPECTOR SHALL NOTIFY THE OWNER, CONTRACTOR, ARCHITECT AND STRUCTURAL ENGINEER BY PHONE ON THE DAY OF THE TEST OR INSPECTION AND SHALL FOLLOW THAT CALL WITH AN EXPEDITED WRITTEN REPORT WITHIN ONE BUSINESS DAY. ALL OTHER REPORTS SHALL BE SUBMITTED WITHIN 5 BUSINESS DAYS OF THE EVENT DOCUMENTED.
   c. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS
   d. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
   e. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WITHIN ONE BUSINESS DAY. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED BY THE SPECIAL INSPECTOR AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.
   g. THE SPECIAL INSPECTOR'S FINAL REPORT SHALL IDENTIFY THE FOLLOWING:
      1) THE MATERIALS, SYSTEMS, COMPONENTS, AND WORK REQUIRED TO HAVE SPECIAL INSPECTION OR TESTING BY THE BUILDING OFFICIAL OR BY THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR EACH PORTION OF THE WORK.
      2) THE TYPE AND EXTENT OF EACH SPECIAL INSPECTION.
      3) THE TYPE AND EXTENT OF EACH TEST.
      4) ADDITIONAL REQUIREMENTS FOR SPECIAL INSPECTION OR TESTING FOR SEISMIC OR WIND RESISTANCE AS SPECIFIED IN SECTIONS 1705.11, 1705.12 AND 1705.13.
         i. WHERE SECTION 1705.12 OR 1705.13 SPECIFIES SPECIAL INSPECTION, TESTING OR QUALIFICATION FOR SEISMIC RESISTANCE, THE STATEMENT OF SPECIAL INSPECTIONS SHALL IDENTIFY THE DESIGNATED SEISMIC SYSTEMS AND SEISMIC FORCE-RESISTING SYSTEMS THAT ARE SUBJECT TO SPECIAL INSPECTIONS OR TESTS.
         ii. WHERE SECTION 1705.11 SPECIFIES SPECIAL INSPECTION FOR WIND REQUIREMENTS, THE STATEMENT OF SPECIAL INSPECTIONS SHALL IDENTIFY THE MAIN WINDFORCE-RESISTING SYSTEMS AND WIND-RESISTING COMPONENTS SUBJECT TO SPECIAL INSPECTIONS. THE REPORT SHALL BE SIGNED BY THE SPECIAL INSPECTOR
5. FOR EACH TYPE OF SPECIAL INSPECTION, IDENTIFICATION AS TO WHETHER IT WILL BE CONTINUOUS SPECIAL INSPECTION, PERIODIC SPECIAL INSPECTION OR PERFORMED IN ACCORDANCE WITH THE NOTATION USED IN THE REFERENCED STANDARD WHERE THE INSPECTIONS ARE DEFINED.
6. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION ON QUANTITY, FREQUENCY AND DETAILED INFORMATION ON TESTING, INSPECTION AND REPORTING.
7. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION MEETING TO DISCUSS THE SPECIAL INSPECTION REQUIREMENTS WITH ALL INVOLVED PARTIES.
8. THE SPECIAL INSPECTIONS PROGRAM OUTLINED HEREIN, DOES NOT RELIEVE THE CONTRACTOR OR ANY OTHER ENTITY OF ANY CONTRACTUAL DUTIES, INCLUDING QUALITY CONTROL, QUALITY ASSURANCE, OR SAFETY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, AND JOB SITE SAFETY.
9. THE CONTRACTOR SHALL PAY FOR ENGINEERING SERVICES REQUIRED TO INVESTIGATE AND CORRECT WORK THAT DOES NOT CONFORM TO THE PROJECT DOCUMENTS OR IS FOUND DEFICIENT OR DEFECTIVE.

PERMIT'S APPLICATION RESPONSIBILITIES

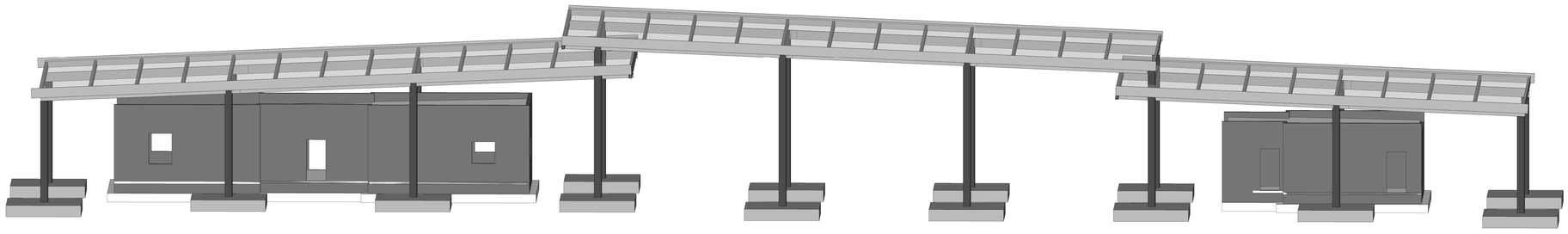
1. THE PERMIT APPLICANT SHALL SUBMIT THIS SHEET AS THE STATEMENT OF SPECIAL INSPECTIONS PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AS A CONDITION FOR PERMIT ISSUANCE.



01 ISOMETRIC VIEW

NOTES:

1. ISOMETRIC VIEW IS FOR REFERENCE ONLY. THIS DRAWING IS NOT TO BE USED FOR SCALE, DETAILING OR QUANTITIES.
2. ONLY PRIMARY STRUCTURE IS SHOWN IN THIS VIEW. REFER TO PLANS AND DETAILS FOR CONNECTIONS AND MISCELLANEOUS STEEL REQUIRED.



02 ISOMETRIC VIEW

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
03 - TRANSFER CENTER
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Architect of Record:
ADG
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PEORIA, IL 61602
P - 309.672.6948

Discipline:
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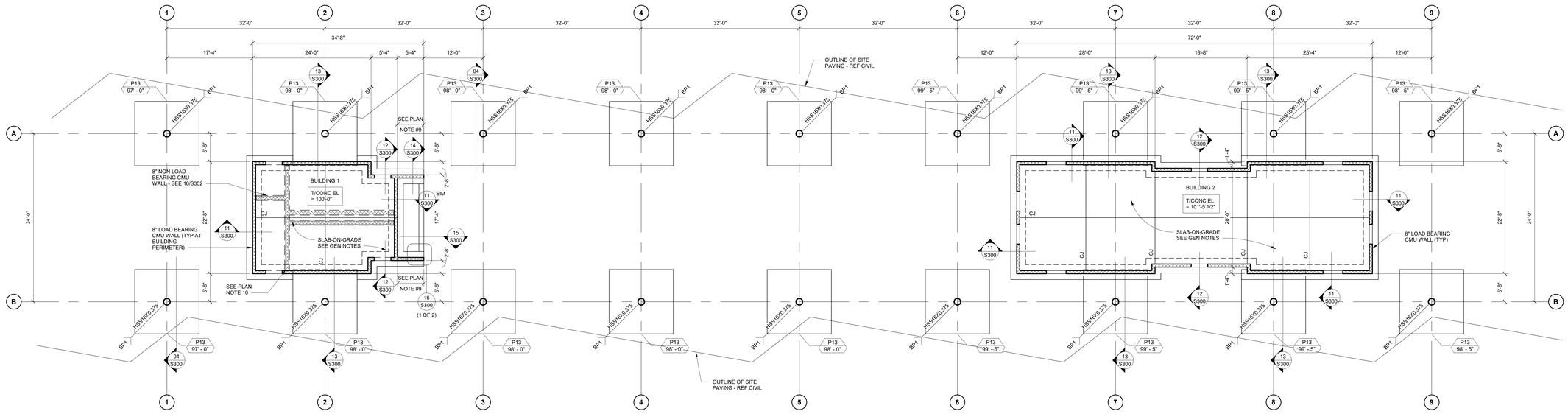
Discipline: Owner Consultant
QSC SERVICES, LLC
PMB #69
545 BRENT LN. PENSACOLA, FL
P - 309.231.8272

OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
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Revisions

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ISOMETRIC VIEWS **S004**



N

01 FOUNDATION FRAMING PLAN

1/8" = 1'-0"

PLAN NOTES:

1. ALL ELEVATIONS ARE REFERENCED TO BUILDING 1 LEVEL 1 FINISHED FLOOR EL = 100'-0" (79.30'). REFERENCE SITE PLAN FOR ABSOLUTE ELEVATIONS.
2. SEE S000 SERIES FOR ABBREVIATIONS, GENERAL NOTES, AND SPECIAL INSPECTIONS.
3. CJ INDICATES CONTROL JOINTS, SEE 05/S300.
4. SEE SHEET S300 FOR TYPICAL SPREAD FOOTING DETAIL.
5. SEE S300 SERIES SHEETS FOR TYPICAL DETAILS.
6. XXX'-X" - DENOTES TOP OF SLAB ELEVATION.
7. COLUMN CALL OUT:

   COLUMN SIZE / BPX — DENOTES BASE PL (SEE S300)

8. FOOTING CALL OUT:

   FXX / X'-X" - DENOTES SPREAD FOOTING MARK SEE 03/S300 FOR SCHED.

9. 8" CMU WALL SHALL BE GROUTED SOLID IN ALL CELLS. SEE PLAN FOR EXTENTS OF FULLY GROUTED CMU.
10. 8" NON-LOAD BEARING CMU WALL FRAMING PERPENDICULAR TO LOAD BEARING CMU WALL REFER TO 07/S302 FOR JOINT BETWEEN WALLS.

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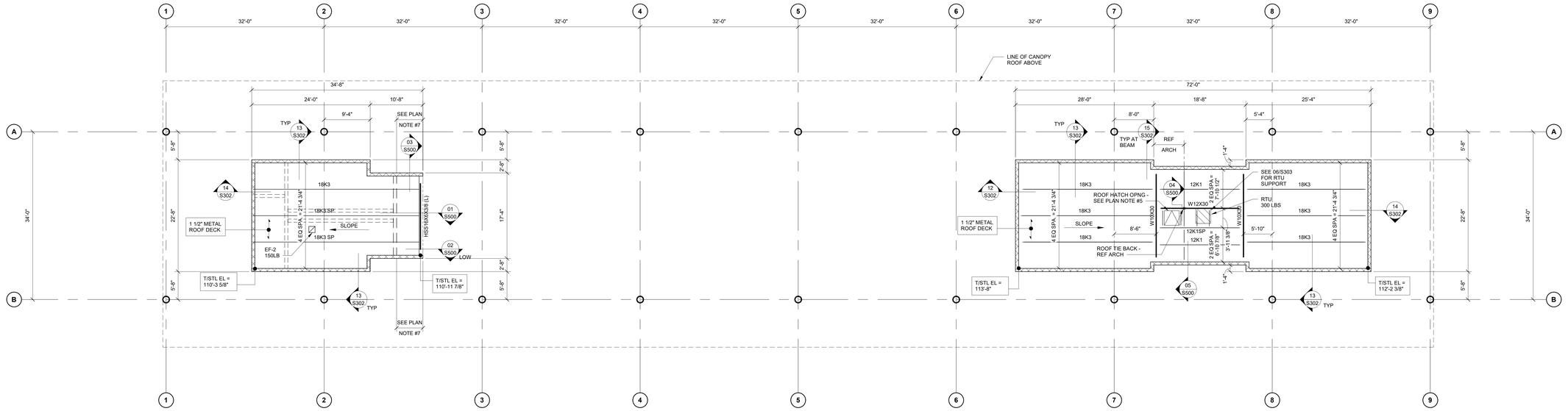
Discipline: Owner Consultant
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FOUNDATION FRAMING PLAN **S110**



N

01 ROOF FRAMING PLAN

1/8" = 1'-0"

PLAN NOTES:

1. ALL ELEVATIONS ARE REFERENCED TO BUILDING 1 LEVEL 1 FINISHED FLOOR EL = 100'-0" (79.30'). REFERENCE SITE PLAN FOR ABSOLUTE ELEVATIONS.
2. SEE S000 SERIES FOR ABBREVIATIONS, GENERAL NOTES, AND SPECIAL INSPECTIONS.
3. SEE S300 SERIES SHEETS FOR TYPICAL DETAILS.
4. XXX'-X" - DENOTES TOP OF STEEL ELEVATION (METAL DECK BEARING).
5. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ROOF HATCH OPENINGS. PROVIDE FRAMING AROUND ROOF OPENINGS PER DETAIL 04 AND 07/S303.
6. JOIST DESIGNATED WITH THE "SP" IDENTIFIER SHALL BE ENGINEERED TO ACCOMMODATE SUPPLEMENTAL LOADING CONDITIONS. CONTRACTOR TO VERIFY/COORDINATE LOCATIONS WITH MEP DRAWINGS AND JOIST ENGINEER.
7. 8" CMU WALL SHALL BE GROUTED SOLID IN ALL CELLS. SEE PLAN FOR EXTENTS OF FULLY GROUTED CMU.

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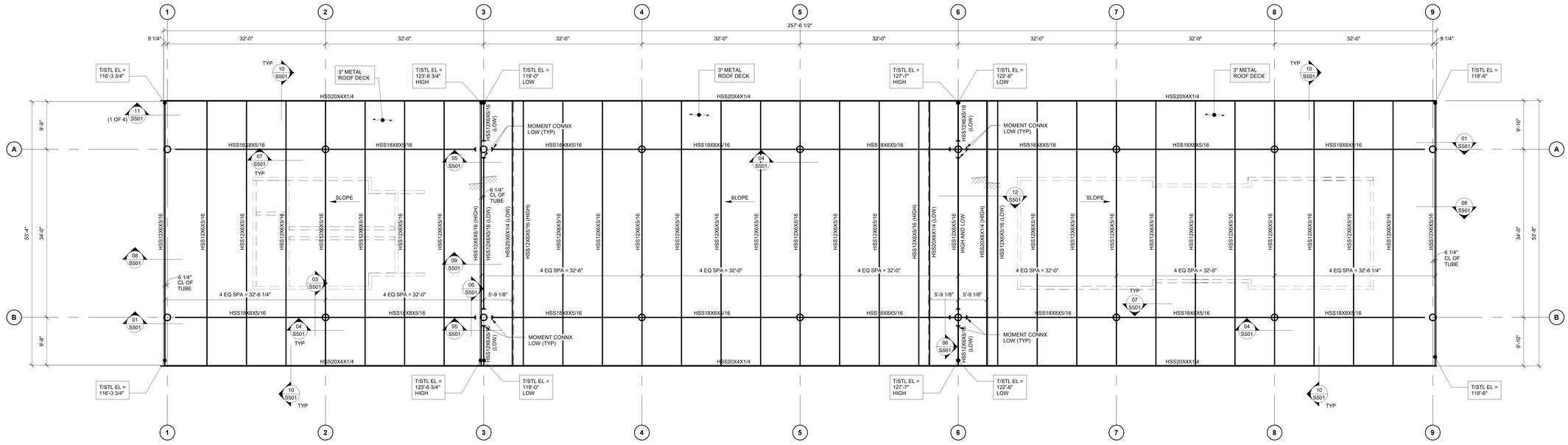
Discipline:
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N

01 CANOPY ROOF FRAMING PLAN

1/8" = 1'-0"

PLAN NOTES:

1. ALL ELEVATIONS ARE REFERENCED TO BUILDING 1 LEVEL 1 FINISHED FLOOR EL = 100'-0" (79.30'). REFERENCE SITE PLAN FOR ABSOLUTE ELEVATIONS.
2. SEE S000 SERIES FOR ABBREVIATIONS, GENERAL NOTES, AND SPECIAL INSPECTIONS.
3. SEE S300 SERIES SHEETS FOR TYPICAL DETAILS.
4. XXX-X" - DENOTES TOP OF STEEL ELEVATION AT THE CENTER LINE OF THE BEAM WORK POINT (METAL DECK BEARING).
5. ▶—— - DENOTES MOMENT CONNECTION - SEE 12/S303 FOR TYPICAL DETAILS.
6. TOUCH UP WELDED CONNECTIONS WITH GALVANIC PAINT ONCE WELDING IS COMPLETE.

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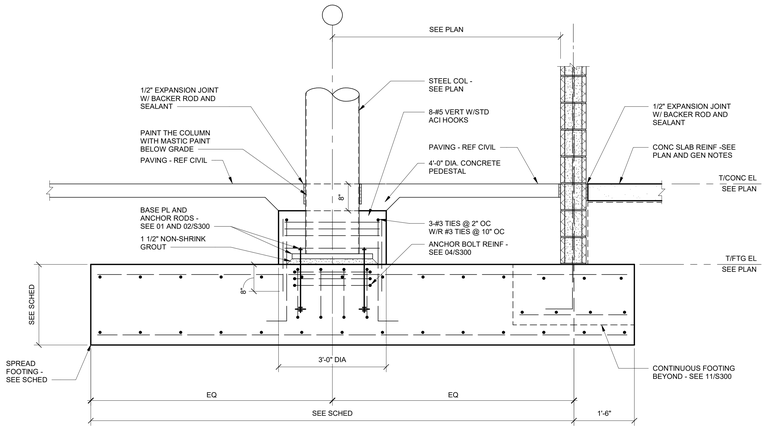
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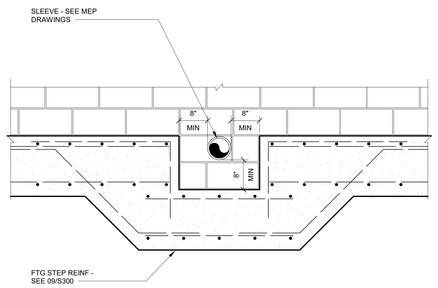
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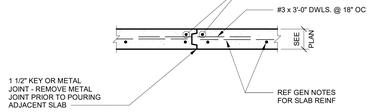
13



NOTES:
1. DO NOT CUT VERTICAL REINFORCING. IF SLEEVE IS INSTALLED AFTER CMU WALL IS IN PLACE, GC SHALL SCAN CMU WALL TO LOCATE VERTICAL BAR TO AVOID CUTTING REINFORCING.

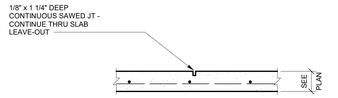
TYPICAL FOOTING STEP AT PLUMBING LINE

10



TYPICAL SLAB ON GRADE CONSTRUCTION JOINT

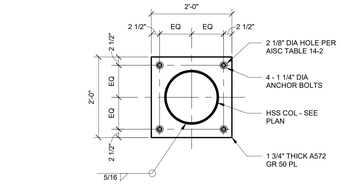
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NOTE:
JOINTS MUST BE CUT WITHIN 8 HRS AFTER POUR

TYPICAL SLAB ON GRADE SAWED JOINT

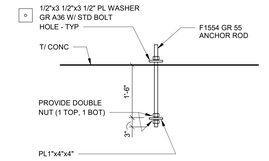
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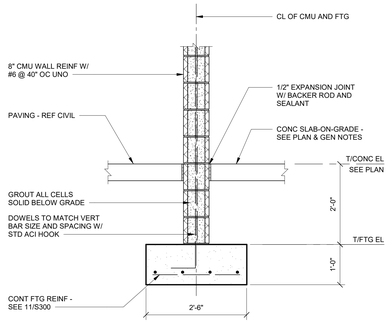
TYPICAL BASE PLATE

01

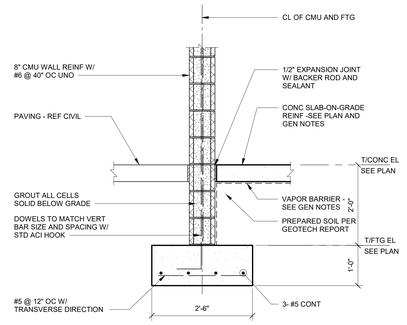


TYPICAL ANCHOR RODS

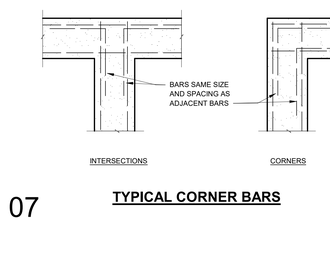
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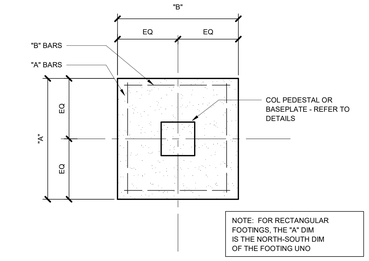


11



TYPICAL CORNER BARS

07

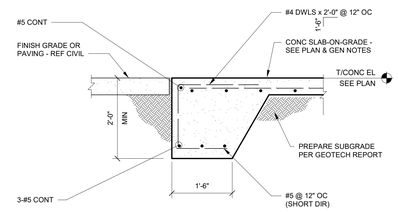


NOTE: FOR RECTANGULAR FOOTINGS, THE "A" DIM IS THE NORTH-SOUTH DIM OF THE FOOTING UNO

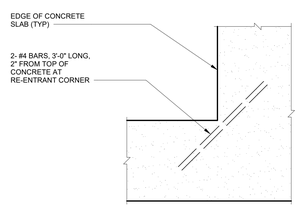
SPREAD FOOTING SCHEDULE						
MARK	DIMENSIONS			REINFORCING		NOTES
	"A"	"B"	"T"	A BARS	B BARS	
P13	13'-0"	13'-0"	2'-0"	12- #7	12- #7	TOP & BOT

TYPICAL SPREAD FOOTING PLAN AND SCHEDULE

03

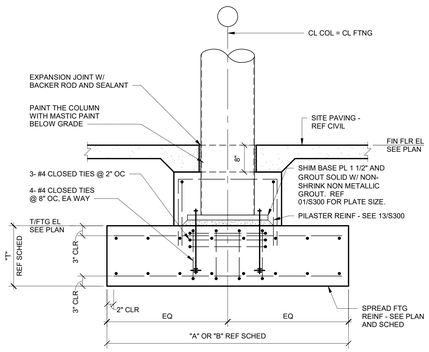


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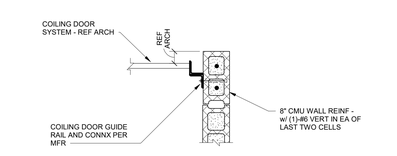


TYPICAL RE-ENTRANT CORNER REINFORCING

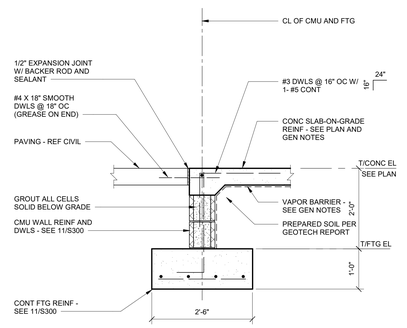
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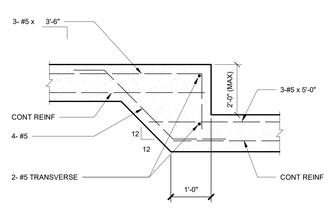
04 **TYPICAL COLUMN TO FOOTING DETAIL**



16



12



09 **TYPICAL STEP IN FOOTING**

NOTE: DETAILS SHOWN ON THIS SHEET ARE APPLICABLE THROUGHOUT THE DESIGN DRAWINGS. THESE DETAILS ARE DEFINED AS GENERAL STANDARDS THAT ARE USUALLY NOT IDENTIFIED BY SPECIFIC REFERENCE WITHIN THE DRAWINGS. THESE DETAILS MAY BE MODIFIED OR SUPERSEDED BBY SPECIFIC DETAILS THAT ARE REFERENCED WITHIN THE DRAWINGS.

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Revisions

PROJECT NO. 2613
STATUS BID PACKAGE #2 - NOT FOR CONSTRUCTION
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TYPICAL DETAILS - FOUNDATION DETAILS **S300**

DEVELOPMENT LENGTH SCHEDULE (INCHES)

GRADE	BAR SIZE	MIN BAR SPACING (INCHES) [MAX OF db+1" OR 2db]	TENSION										COMPRESSION					
			NOTED AS Ld ON DRAWINGS						NOTED AS Ldh ON DRAWINGS						NOTED AS Ldc ON DRAWINGS					
			f'c (PSI)						f'c (PSI)						f'c (PSI)					
			3000	4000	5000	6000	7000	8500	3000	4000	5000	6000	7000	8500	3000	4000	5000	6000	7000	8500
60	#3	1.375	17	15	13	12	12	12	9	8	7	6	6	6	9	8	8	8	8	8
	#4	1.5000	22	19	17	16	15	14	11	10	9	8	8	7	11	10	9	9	9	9
	#5	1.625	28	24	22	20	18	17	14	12	11	10	9	9	14	12	12	12	12	12
	#6	1.750	33	29	26	24	22	20	17	15	13	12	11	10	17	15	14	14	14	14
	#7	1.875	48	42	38	34	32	29	20	17	15	14	13	12	20	17	16	16	16	16
	#8	2.000	55	48	43	39	36	33	22	19	17	16	15	14	22	19	18	18	18	18
	#9	2.250	62	54	48	44	41	37	25	22	20	18	17	15	25	22	21	21	21	21
80	#10	2.500	93	81	72	66	61	56	38	33	29	27	25	23	38	33	31	31	31	31
	#11	2.750	103	90	80	73	68	62	42	36	32	30	27	25	42	36	34	34	34	34

FOOTING/MAT REINFORCEMENT LAP SPLICE LENGTH SCHEDULE (INCHES)

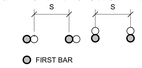
GRADE	BAR SIZE	MIN BAR SPACING (INCHES)	TENSION (LTS)											
			f'c = 3 KSI		f'c = 4 KSI		f'c = 5 KSI		f'c = 6 KSI		f'c = 7 KSI		f'c = 8.5 KSI	
			TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER
60	#4	1.875	38	29	33	25	29	23	27	21	25	19	22	17
	#5	2.000	47	36	41	31	36	28	33	26	31	24	28	22
	#6	2.250	56	43	49	37	44	34	40	31	37	28	33	26
	#7	2.625	81	63	71	54	63	49	58	45	54	41	49	38
	#8	3.000	93	72	81	62	72	56	66	51	61	47	55	43
	#9	3.375	105	81	91	70	81	63	74	57	69	53	63	48
80	#10	3.750	157	121	136	105	122	94	111	86	103	79	94	72
	#11	4.125	175	134	151	116	135	104	124	95	114	88	104	80

SLAB/SLAB-ON-GRADE REINFORCEMENT LAP SPLICE LENGTH SCHEDULE (INCHES)

GRADE	BAR SIZE	MIN BAR SPACING (INCHES)	TENSION (LTS)					
			f'c = 3 KSI	f'c = 4 KSI	f'c = 5 KSI	f'c = 6 KSI	f'c = 7 KSI	f'c = 8.5 KSI
60	#3	1.750	22	19	17	16	14	13
	#4	1.875	29	25	23	21	19	17
	#5	2.000	36	31	28	26	24	22
	#6	2.250	43	37	34	31	28	26
	#7	2.625	94	81	73	67	62	56
	#8	3.000	107	93	83	76	70	64

LAP SPLICE NOTES:

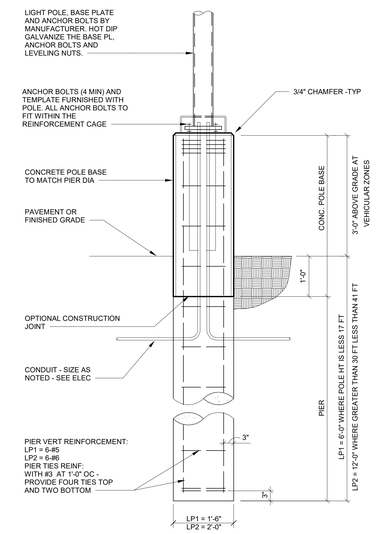
1. TABULATED VALUES ARE PER ACI 318-19 REQUIREMENTS FOR NORMAN WEIGHT CONCRETE. THE VALUES ON THIS SHEET DO NOT APPLY TO LIGHTWEIGHT CONCRETE.
2. SEE TYPICAL DETAILS FOR CLEAR COVER.
3. MINIMUM BAR SPACING DIAGRAM - "S"



FIRST BAR

SECOND BAR PLACED OR SPLICE BAR

4. WHERE ACTUAL CONDITIONS DIFFER FROM THE CLEAR COVER SHOWN ON THE TYPICAL DETAILS OR DIFFER FROM PROVIDED SCHEDULED BAR SIZE, MINIMUM SPACING AND/OR fc, LENGTHS SHALL BE ADJUSTED ONLY WITH THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
5. TABULATED VALUES ARE FOR NON-EPOXY COATED REINFORCEMENT. FOR EPOXY COATED REINFORCEMENT MULTIPLY VALUES BY 1.3 FOR "TOP BARS" AND 1.5 FOR ALL OTHER REINFORCEMENT
6. WHERE BARS OF DIFFERENT SIZES ARE LAP SPLICED IN TENSION, THE LAP LENGTH SHALL BE THE TENSION LAP SPLICE LENGTH (LTS) OF THE SMALLER BAR.
7. WHERE BARS OF DIFFERENT SIZES ARE LAP SPLICED IN COMPRESSION, THE COMPRESSION LAP LENGTH (LCS) SHALL BE THE LARGER OF THE COMPRESSION DEVELOPMENT LENGTH (Ldc) OF THE LARGER BAR OR THE COMPRESSION LAP SPLICE LENGTH OF THE SMALLER BAR.
8. "TOP BARS" ARE DEFINED PER ACI HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE DEVELOPMENT LENGTH OR SPLICE. "OTHER BARS ARE ALL BARS FOR WHICH THIS DOES NOT APPLY".
9. FOUNDATION WALL LAP SPLICES ARE BASED ON A MINIMUM 1 1/2" CLEAR COVER. IF CLEAR COVER IS REDUCED ON INTERIOR FACE, LAP SPLICES MUST BE REVISED.



01 LIGHT POLE BASE DETAIL

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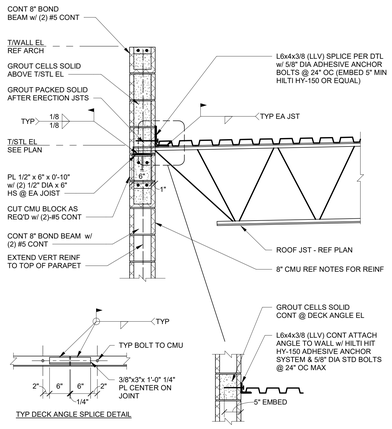
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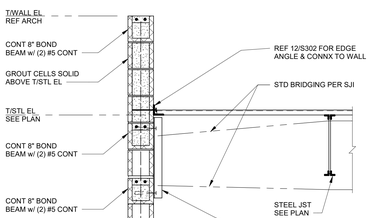
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Design and Construction Administration Division
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Revisions

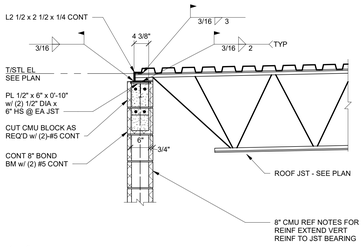
PROJECT NO. 2613
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DRAWN BY RLG



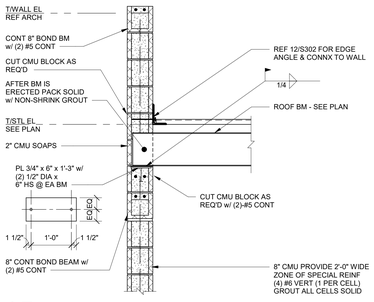
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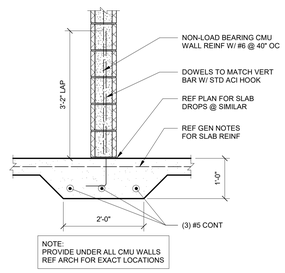
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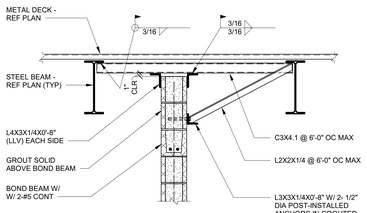
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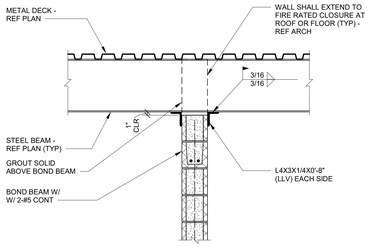
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10 **THICKENED SLAB AT CMU WALLS**

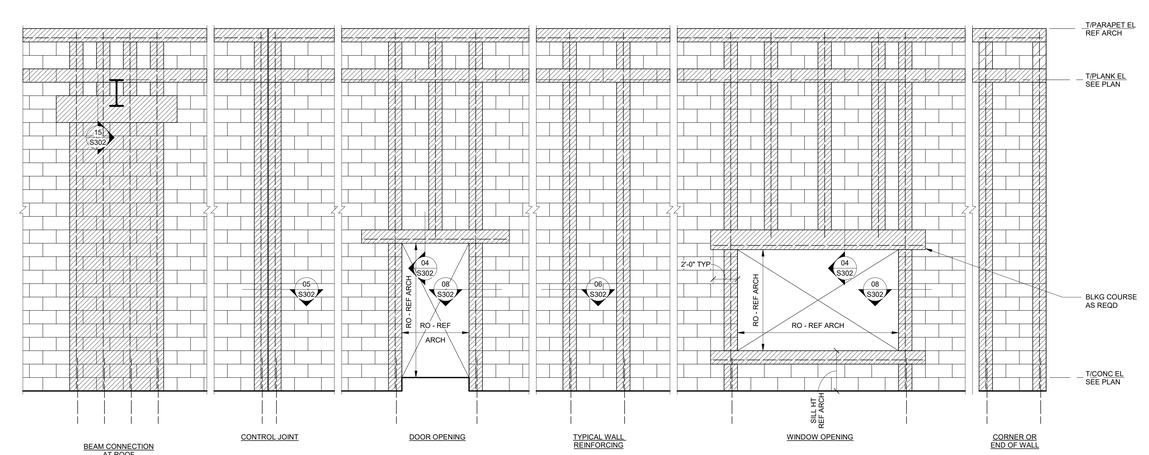


FULL-HEIGHT WALL BETWEEN BEAM / JOIST



FULL-HEIGHT WALL PERPENDICULAR TO BEAM / JOIST

11 **TYP CMU WALLTOP BRACING AT STEEL FRAMING**

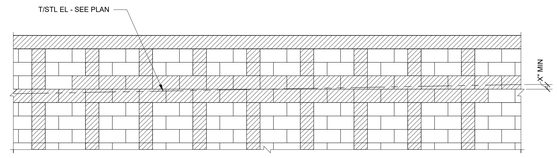


01 **TYPICAL CMU WALL ELEVATION**

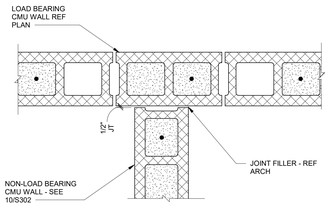
NOTE:
1. ▨ - DENOTES CELLS TO BE GROUTED SOLID



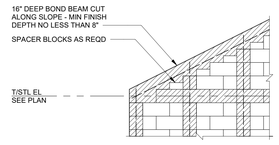
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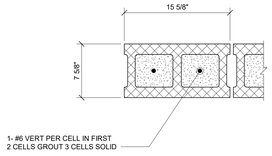
02 **BOND BEAM AT SLOPED ROOF**



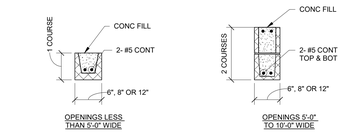
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03 **BOND BEAM AT RIDGE**

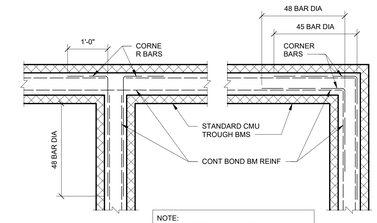


08 **DETAIL "B" AT DOOR JAMB**

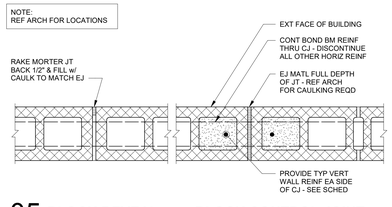


NOTE:
PROVIDE BLOCK LINTELS FOR ALL OPENINGS IN INTERIOR BLOCK PARTITIONS AND IN EXTERIOR BLOCK WALLS FOR WHICH STEEL LINTELS ARE NOT SCHEDULED SEE ARCHITECTURAL FOR SIZE AND LOCATION OF OPENING PROVIDE 8" MINIMUM BEARING EACH END

04 **TYPICAL CMU BLOCK LINTELS**



09



05 **BLOCK REVEAL** **BLOCK CONTROL JOINT**

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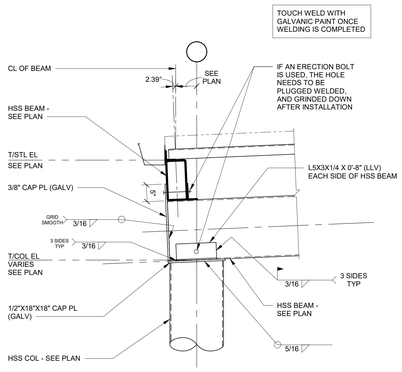
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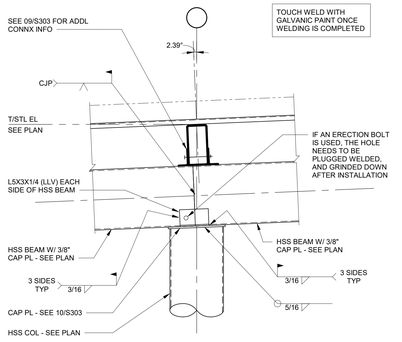
PROJECT NO.	2613
STATUS	BID PACKAGE #2 - NOT FOR CONSTRUCTION
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DRAWN BY	RLG

TYPICAL DETAILS - CMU WALLS **S302**



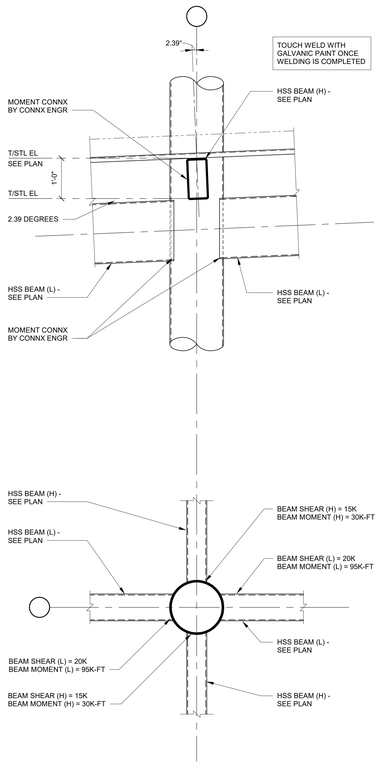
TYPICAL BEAM RUNNING OVER THE TOP OF COLUMN CONNECTION - SINGLE BEAM

10



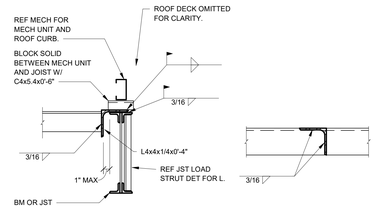
TYPICAL BEAM RUNNING OVER THE TOP OF COLUMN CONNECTION - MULTIPLE BEAM

11

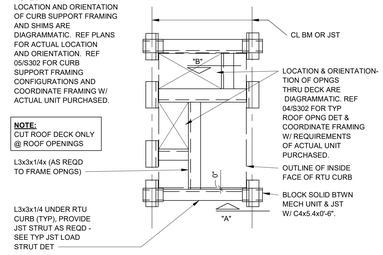


TYPICAL TUBE BEAM TO HSS COLUMN MOMENT CONNECTION

12

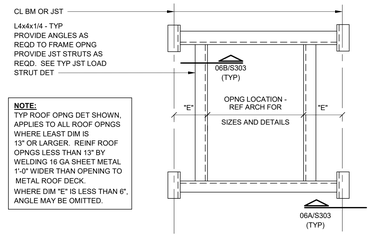


SECTION "A" **SECTION "B"**



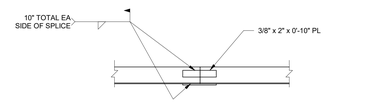
TYPICAL ROOF TOP UNIT SUPPORT

06



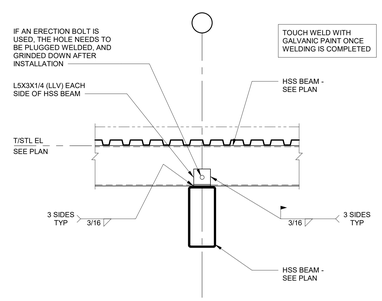
TYPICAL ROOF OPENING DETAIL

07



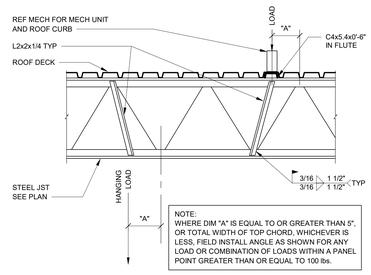
TYPICAL SPLICE OF EDGE ANGLE DETAILS

08



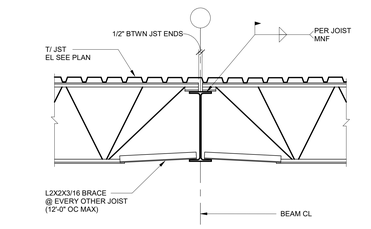
TYPICAL PERPENDICULAR HSS BEAM CONNECTION

09



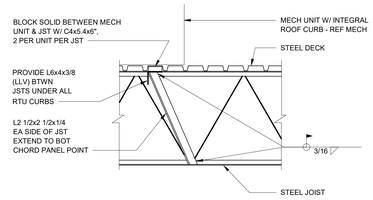
TYPICAL JOIST LOAD STRUT DETAIL

01



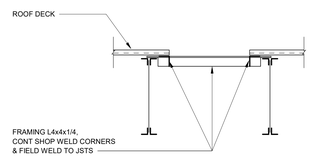
TYPICAL JOIST TO BEAM

02



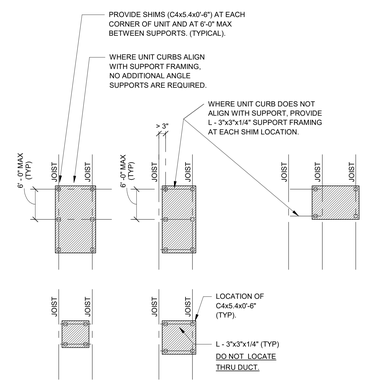
MECHANICAL UNIT SUPPORT DETAIL

03



TYPICAL ROOF OPENING DETAIL

04



NOTE : REFER TO PLANS FOR LOCATION, ORIENTATION AND WEIGHT OF EACH UNIT. CURB SUPPORT FRAMING AND SHIMS SHOWN IN THESE DETAILS. REFER TO 07/S302 FOR FRAMING AROUND OPENINGS THRU THE ROOF DECK. REFER TO 06/S302 FOR DETAILS OF TYPICAL ROOF TOP UNIT SUPPORT. JOISTS SHOWN, BEAMS ARE SIMILAR.

TYPICAL ROOF TOP UNIT CURB SUPPORT FRAMING CONFIGURATIONS.

05

NOTE: DETAILS SHOWN ON THIS SHEET ARE APPLICABLE THROUGHOUT THE DESIGN DRAWINGS. THESE DETAILS ARE DEFINED AS GENERAL STANDARDS THAT ARE USUALLY NOT IDENTIFIED BY SPECIFIC REFERENCE WITHIN THE DRAWINGS. THESE DETAILS MAY BE MODIFIED OR SUPERSEDED BBY SPECIFIC DETAILS THAT ARE REFERENCED WITHIN THE DRAWINGS.

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
03 - TRANSFER CENTER
41 CLARINDA LN
PENSACOLA, FL, 32505

Architect of Record:
ADG
800 SW ADAMS STREET, SUITE 101
PEORIA, IL 61602
P - 309.672.6948

Discipline:
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DALLAS, TX 75243
P - 214.739.8100

Discipline:
HODGSON DOUGLAS LANDSCAPE ARCHITECTS
12001 N CENTRAL EXPY, SUITE 1170
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P - 214.749.0333

Discipline:
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Discipline:
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P - 515.727.0700

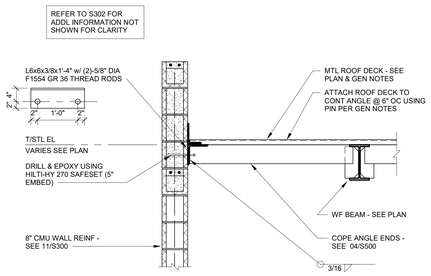
Discipline: Owner Consultant
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P - 309.231.8272

OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
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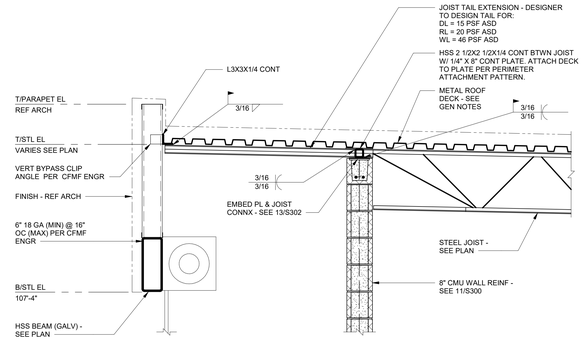
Revisions

PROJECT NO.	2613
STATUS	BID PACKAGE #2 - NOT FOR CONSTRUCTION
DATE	10/22/2026
DRAWN BY	RLG

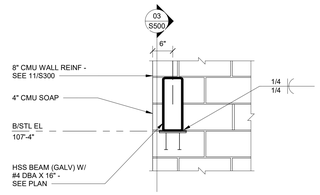
TYPICAL DETAILS - STRUCTURAL STEEL ROOF **S303**



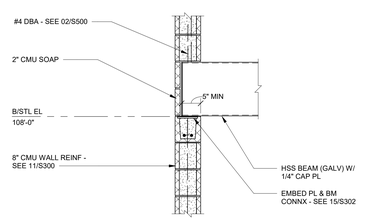
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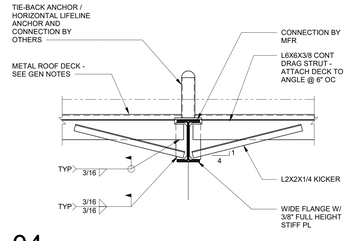
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02



03



04

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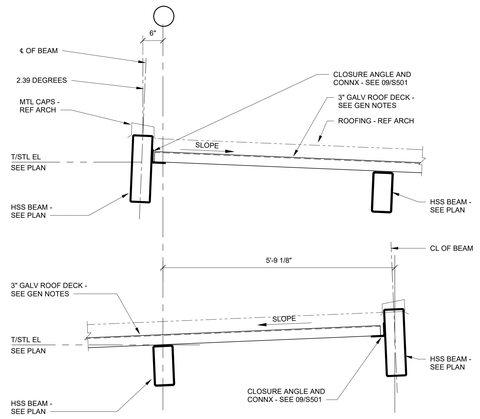
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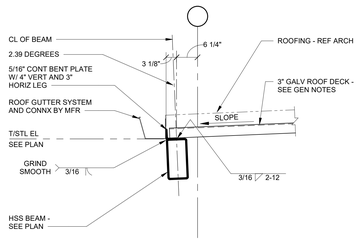
Revisions

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DATE 10/22/2026
DRAWN BY RLG

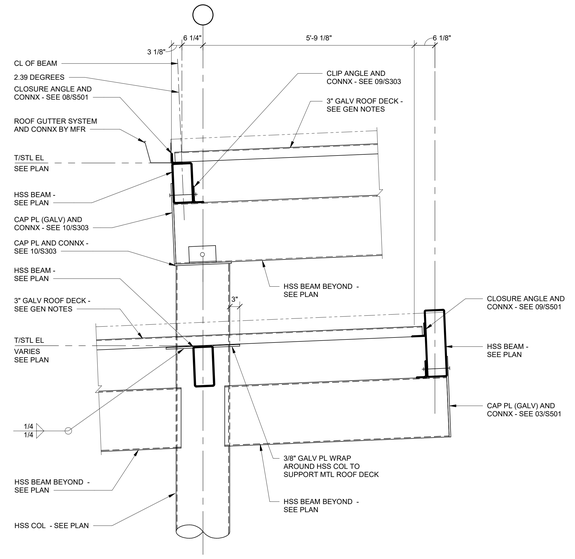
FRAMING DETAILS S500



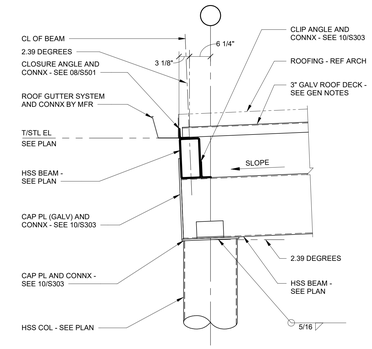
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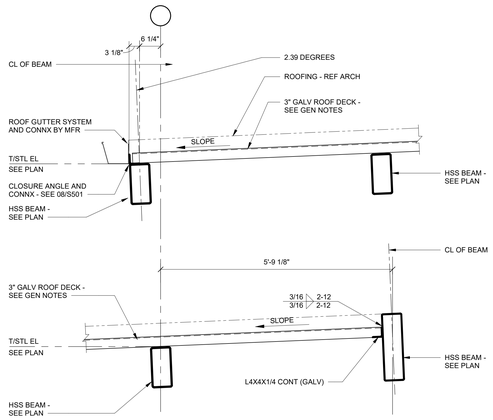
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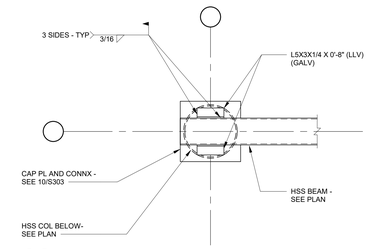
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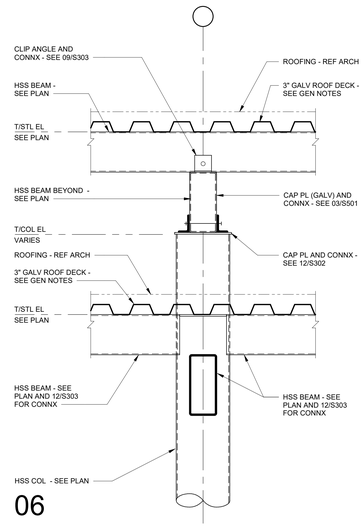
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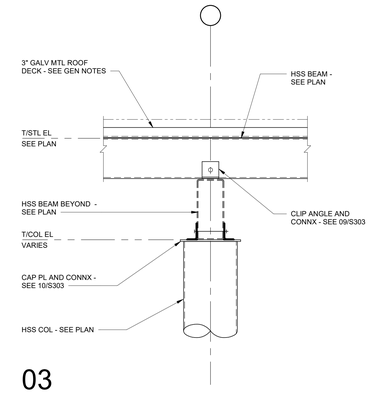
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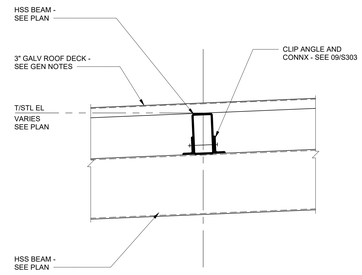
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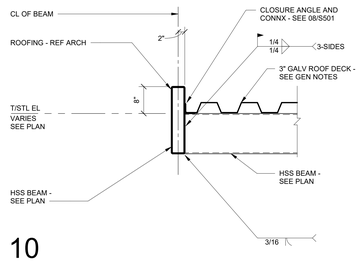
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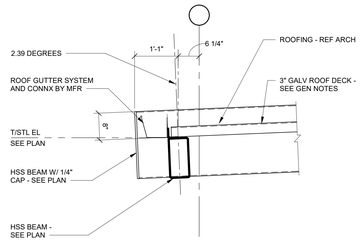
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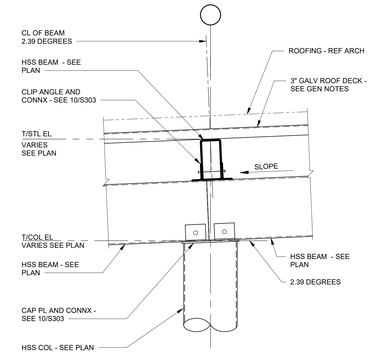
07



10



11



04

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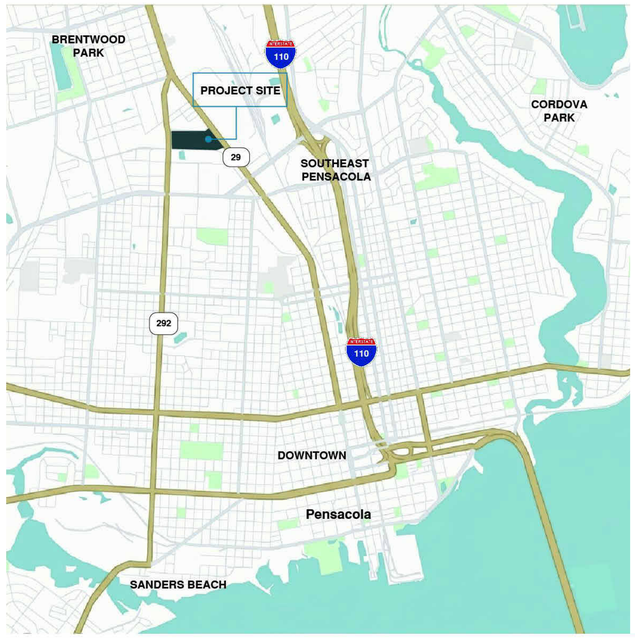
Discipline: Owner Consultant
QSC SERVICES, LLC
PMB #69
545 BRENT LN. PENSACOLA, FL
P - 309.231.8272

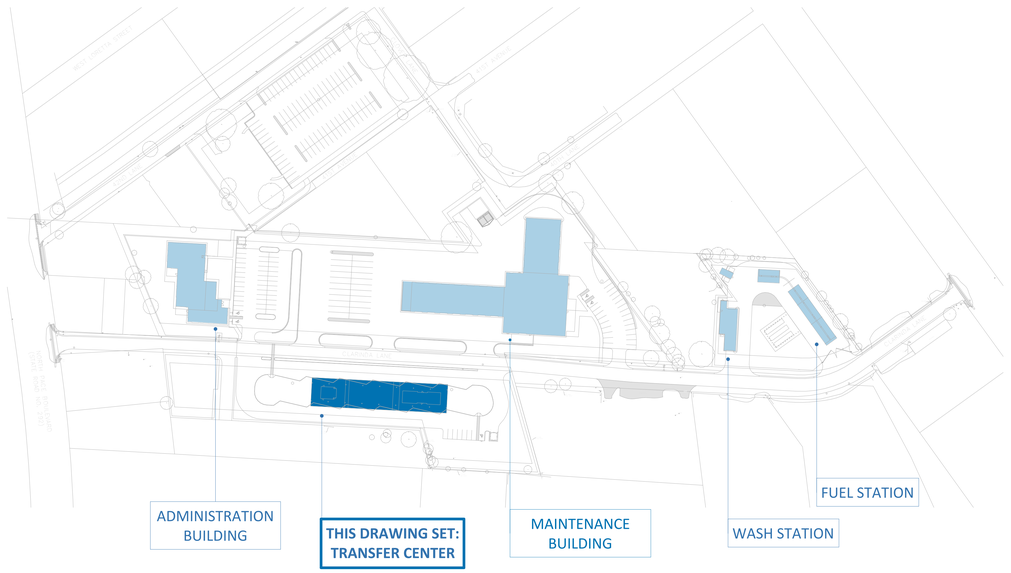
OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

Revisions

PROJECT NO. 2613
STATUS BID PACKAGE #2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
DRAWN BY RLG

FRAMING DETAILS S501





SITE LOCATION PLAN

PROJECT DATA

PROJECT DESCRIPTION: NEW CONSTRUCTION TRANSFER CENTER WITH CUSTOMER SERVICE BUILDING AND SEPARATE PUBLIC TOILET ROOMS. TRANSFER CENTER COMPRISES A CANOPY STRUCTURE COVERING 8 OF 12 BUS GATES.

GOVERNING CODES:

2023 FLORIDA BUILDING CODE, EIGHTH EDITION
2023 FLORIDA BUILDING CODE—ACCESSIBILITY, EIGHTH EDITION
2023 FLORIDA BUILDING CODE—ENERGY CONSERVATION, EIGHTH EDITION

REFER TO ENGINEERING DISCIPLINE SHEETS FOR ADDITIONAL CODES.

USE GROUP CLASSIFICATION:

CUSTOMER SERVICE BUILDING: B BUSINESS
PUBLIC TOILET ROOM BUILDING: B BUSINESS

CONSTRUCTION CLASSIFICATION: TYPE IIB - NONCOMBUSTILE, UNPROTECTED

FIRE SUPPRESSION SYSTEM: NONE

FIRE ALARM SYSTEM: YES

NUMBER OF FLOORS: 1

	ACTUAL	ALLOWABLE
HEIGHT ABOVE GRADE PLANE:	31'	55'
STORIES ABOVE GRADE PLANE:	1	1

AREAS OF FLOORS:

	ACTUAL	ALLOWABLE
BUSINESS	2,230 S.F.	23,000 S.F.

CAPACITY OF EXITS:

COMMON PATH: SEE CODE PLAN
DEAD END CORRIDOR: SEE CODE PLAN
EXIT ACCESS TRAVEL DISTANCE: SEE CODE PLAN

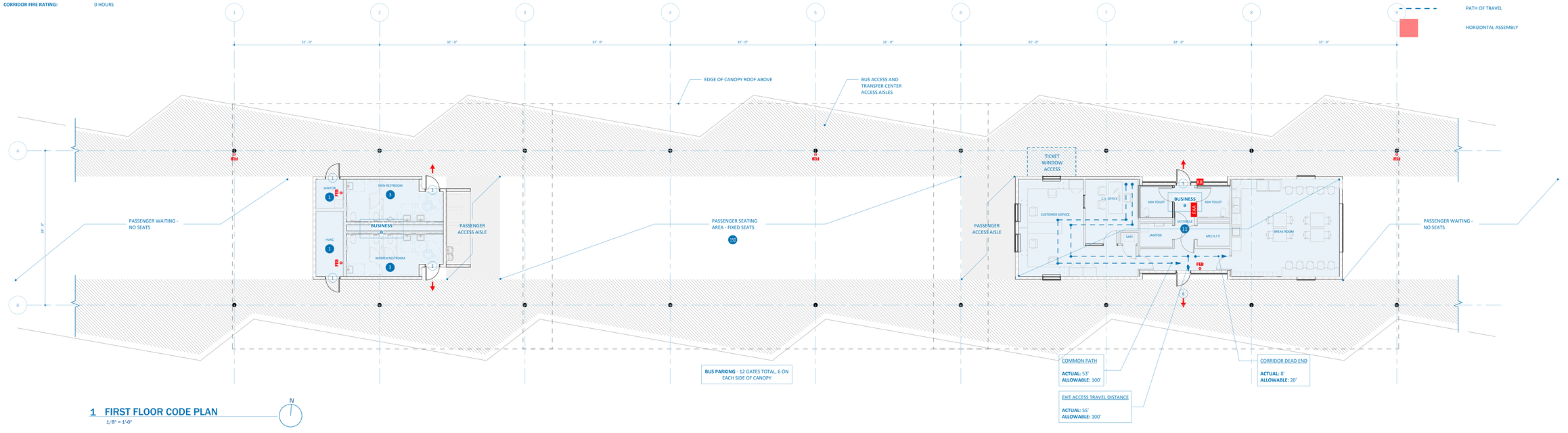
SINGLE DOOR CAPACITY (3'-0" TYP): 0.2" PER OCCUPANT (TYP:36"/0.2" = 180 MAX OCCUPANTS)

DOUBLE DOOR CAPACITY (PAIR OF 3'-0", TYP): 0.2" PER OCCUPANT (TYP: 72"/0.2" = 360 MAX OCCUPANTS)

CORRIDOR FIRE RATING: 0 HOURS

MINIMUM NUMBER OF PLUMBING FIXTURES

	WATER CLOSETS		LAVATORIES				BATHTUBS/ SHOWERS	DRINKING FOUNTAIN	SERVICE SINK
	MALE	FEMALE	MALE	FEMALE	UNISEX WC	UNISEX LAVS			
LIGHT STORAGE - S-2 (OUTDOOR PASSENGER WAITING AREA)									
OCCUPANTS:	75	75	75	75					
PROVIDED:	3	3	2	2	0	0	0	1	1
REQUIRED:	1	1	1	1	0	0	0	1	
BUSINESS									
OCCUPANTS:	6	6	6	6					
PROVIDED:	1	1	1	1	0	0	0	WATER PROVIDED IN BREAK ROOM	1
REQUIRED:	1	1	1	1	0	0	0	1	



1 FIRST FLOOR CODE PLAN

1/8" = 1'-0"

SHELL ABBREVIATIONS

GENERAL

A/C Air Conditioning
APPROX Approximate
ARCH Architectural
BLDG Building
BM Beam
BOT Bottom
BSMT Basement
CL Centerline
CLG Ceiling
CONC Concrete
CONST Construction
CONTR Contractor
CTR Center
DET Detail
DIM Dimension
DN Down
E East
E.O.S. Edge of Slab
EL Elevation
ENCL Enclosure
EXST Existing
EXP Expansion
FC Fiber Cement
F.G. Finish Grade
FIN Finish
F.O.C. Face of Concrete
F.O.F. Face of Finish
F.O.M. Face of Masonry
F.O.S. Face of Stud
FR Frame
FS Full Size
FT Foot or Feet
FUT Future
GA Gauge
GALV Galvanized
GD Grade
GND Ground
G.B. Gypsum Board
H.B. Hose Bib
H.C. Hollow Core
HCP Handicapped
HORIZ Horizontal
HR Hour
HT Height
H.W. Hot Water
HVAC Heating, Ventilation and Cooling
I.D. Inside Diameter
INCL Including
JNT Joint
JST Joist
L.H. Left Hand
LT Light
MATL Material
MAX Maximum
MECH Mechanical
MET Metal
MFR Manufacturer
MH Manhole
MIN Minimum
MISC Miscellaneous
MTD Mounted
N North
N.I.C. Not in Contract
NO Number
NOM Nominal
S South
S.A.D. See Architectural Drawings
S.S. Stainless Steel
S.S.D. See Structural Drawings
STD Standard
STRUCT Structural
SYM Symmetrical
SUSP Suspended
T Tread
THK Thick or Thickness
T.O.C Top of Curb
T.O.D. Top of Drain
T.O.T. Top of Truss
T.O.W. Top of Wall
TYP Typical
U.O.N. Unless Otherwise Noted
UNF Unfinished
VERT Vertical
V.I.F. Verify in Field
W West
W/ With
W/O Without

EXTERIOR WALLS

AB Anchor Bolt
AVB Air/Vapor Barrier
CI Continuous Insulation
CMU Concrete Masonry Unit
FDN Foundation
FTG Footing
MB Metal Backup
SFRM Spray-Applied Fire-Resistant Material
SHT Sheathing
WRB Weather-Resistant Barrier

CLADDING & FINISHES

ACC Architectural Concrete Cladding
ACM Aluminum Composite Material
AL PN Aluminum Panel
ANOD Anodized
ASPH Asphalt
BRK Brick
FCB Fiber Cement Board
FCP Fiber Cement Panel
EIFS Exterior Insulation and Finish System
GRFC Glass Fiber Reinforced Concrete
MCM Metal Composite Material

PCP Precast Concrete Panel
T&G Tongue and Groove
TRM Trim
VDL Vertical Drip Leg
WD SLP Wood Siding, Lap

OPENINGS

ALUM Aluminum
CLR Clear (glass or opening)
FIX Fixed (window)
GL Glass or Glazing
IGU Insulated Glass Unit
INSUL Insulation
LVR Louver
M.O. Masonry Opening
OH Overhead (door)
OPNG Opening
R.O. Rough Opening
SGU Single Glass Unit
SL Sill
WDW Window

ROOF & DRAINAGE

B.U.R Built Up Roofing
DS Downspout
EPDM Ethylene Propylene Diene Monomer
GUT Gutter
INS Insulation
MBR Membrane
PAR Parapet
RD Roof Drain
RFG Roofing
SCUP Scupper
T.O.P. Top of Parapet
TPO Thermoplastic Polyolefin (membrane)

PLAN SYMBOLS

VIEW TITLE: 1 DRAWING TITLE, X" = Y'-Y"
NORTH ARROW: N
GRID HEAD: D.27
SECTION: DETAIL NO. 1, SHEET NO. A101
ELEVATION: DETAIL NO. 1, SHEET NO. A101
DETAIL: DETAIL NO. X, SHEET NO. AX.X, REFERENCE AREA
DEMOLITION KEYNOTE: ?
PROPOSED KEYNOTE: ?
DOOR TAG: 000
ROOM TAG: ROOM, 1
CEILING TAG: CEILING TYPE, 8'-1"A.F.F.
WINDOW TAG: 1
ROOM TAG (FINISHES): ROOM, 101, FLR | BASE, WALL
ROOM FINISH TAG: 0
REVISION CLOUD: REVISION NO. ADD 01, REVISION CLOUD

USE GROUP CLASSIFICATION LEGEND

B BUSINESS

LIFE SAFETY LEGEND

OCCUPANTS
EXITING
1 HR FIRE
EXIT
FEC = FIRE EXTINGUISHER CABINET, SEMI-RECESSED
FEB = FIRE EXTINGUISHED BRACKET
FES = FIRE EXTINGUISHER STAND
FAA = FIRE ALARM ANNUNCIATOR; RECESSED
KB = KNOX BOX; RECESSED IN WALL 6FT ABOVE PAVEMENT
PATH OF TRAVEL
HORIZONTAL ASSEMBLY

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5518 NW 88th Street,
JHONSTON, IA 50131
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Discipline: Owner Consultant
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Revisions

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SITE LOCATION PLAN, CODE PLAN, ABBREVIATIONS, AND SYMBOLS LEGEND G000

PLAN SYMBOLS

VIEW TITLE

1 DRAWING TITLE

X" = Y'-Y"

NORTH ARROW



GRID HEAD

SECTION

DETAIL NO.

SHEET NO.



ELEVATION

DETAIL NO.

SHEET NO.



DETAIL

DETAIL NO.

SHEET NO.

REFERENCE AREA



DEMOLITION KEYNOTE

PROPOSED KEYNOTE

DOOR TAG

ROOM TAG



CEILING TAG

WINDOW TAG

ROOM TAG (FINISHES)



ROOM FINISH TAG

REVISION CLOUD

REVISION NO.

REVISION CLOUD



SHELL ABBREVIATIONS

GENERAL

A/C	Air Conditioning
APPROX	Approximate
ARCH	Architectural
BLDG	Building
BM	Beam
BOT	Bottom
BSMT	Basement
CL	Centerline
CLG	Ceiling
CONC	Concrete
CONST	Construction
CONTR	Contractor
CTR	Center
DET	Detail
DIM	Dimension
DN	Down
E	East
E.O.S.	Edge of Slab
EL	Elevation
ENCL	Enclosure
EXST	Existing
EXP	Expansion
FC	Fiber Cement
F.G.	Finish Grade
FIN	Finish
F.O.C.	Face of Concrete
F.O.F.	Face of Finish
F.O.M.	Face of Masonry
F.O.S.	Face of Stud
FR	Frame
FS	Full Size
FT	Foot or Feet
FUT	Future
GA	Gauge
GALV	Galvanized
GD	Grade
GND	Ground
G.B.	Gypsum Board
H.B.	Hose Bib
H.C.	Hollow Core
HCP	Handicapped
HORIZ	Horizontal
HR	Hour
HT	Height
H.W.	Hot Water
HVAC	Heating, Ventilation and Cooling
I.D.	Inside Diameter
INCL	Including
JNT	Joint
JST	Joist
L.H.	Left Hand
LT	Light
MATL	Material
MAX	Maximum
MECH	Mechanical
MET	Metal
MFR	Manufacturer
MH	Manhole
MIN	Minimum
MISC	Miscellaneous
MTD	Mounted
N	North
N.I.C.	Not in Contract
NO	Number
NOM	Nominal
S	South
S.A.D.	See Architectural Drawings
S.S.	Stainless Steel
S.S.D.	See Structural Drawings
STD	Standard
STRUCT	Structural
SYM	Symmetrical
SUSP	Suspended
T	Tread
THK	Thick or Thickness
T.O.C.	Top of Curb
T.O.D.	Top of Drain
T.O.T.	Top of Truss
T.O.W.	Top of Wall
TYP	Typical
U.O.N.	Unless Otherwise Noted
UNF	Unfinished
VERT	Vertical
V.I.F.	Verify in Field
W	West
W/	With
W/O	Without

EXTERIOR WALLS

AB	Anchor Bolt
AVB	Air/Vapor Barrier
CI	Continuous Insulation
CMU	Concrete Masonry Unit
FDN	Foundation
FTG	Footing
MB	Metal Backup
SFRM	Spray-Applied Fire-Resistant Material
SHT	Sheathing
WRB	Weather-Resistant Barrier

CLADDING & FINISHES

ACC	Architectural Concrete Cladding
ACM	Aluminum Composite Material
AL PN	Aluminum Panel
ANOD	Anodized
ASPH	Asphalt
BRK	Brick
FCB	Fiber Cement Board
FCP	Fiber Cement Panel
EIFS	Exterior Insulation and Finish System
GRFC	Glass Fiber Reinforced Concrete
MCM	Metal Composite Material
PCP	Precast Concrete Panel
T&G	Tongue and Groove
TRM	Trim
VDL	Vertical Drip Lig
WD SLP	Wood Siding, Lap

OPENINGS

ALUM	Aluminum
CLR	Clear (glass or opening)
FIX	Fixed (window)
GL	Glass or Glazing
IGU	Insulated Glass Unit
INSUL	Insulation
LVR	Louver
M.O.	Masonry Opening
OH	Overhead (door)
OPNG	Opening
R.O.	Rough Opening
SGU	Single Glass Unit
SL	Sill
WDW	Window

ROOF & DRAINAGE

B.U.R	Built Up Roofing
DS	Downspout
EPDM	Ethylene Propylene Diene Monomer
GUT	Gutter
INS	Insulation
MBR	Membrane
PAR	Parapet
RD	Roof Drain
RFG	Roofing
SCUP	Scupper
T.O.P.	Top of Parapet
TPO	Thermoplastic Polyolefin (membrane)

ESCAMBIA COUNTY AREA TRANSIT - FACILITY:
03 - TRANSFER CENTER
41 CLARINDA LN
PENSACOLA, FL, 32505

Architect of Record:
AOG
800 SW ADAMS STREET, SUITE 101
PEORIA, IL 61602
P - 309.672.6948

Discipline:
RLG CONSULTING ENGINEERS
12001 N CENTRAL,
DALLAS, TX 75243
P - 214.739.8100

Discipline:
HODGSON DOUGLAS LANDSCAPE ARCHITECTS
12001 N. CENTRAL EXPRESSWAY, SUITE 1170
DALLAS, TX 75243
P - 214.749.0333

Discipline:
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DALLAS, TX 75243
P - 214.739.8100

Discipline:
KEDbluestone
5518 NW 88th Street,
JHONSTON, IA 50131
P - 515.727.0700

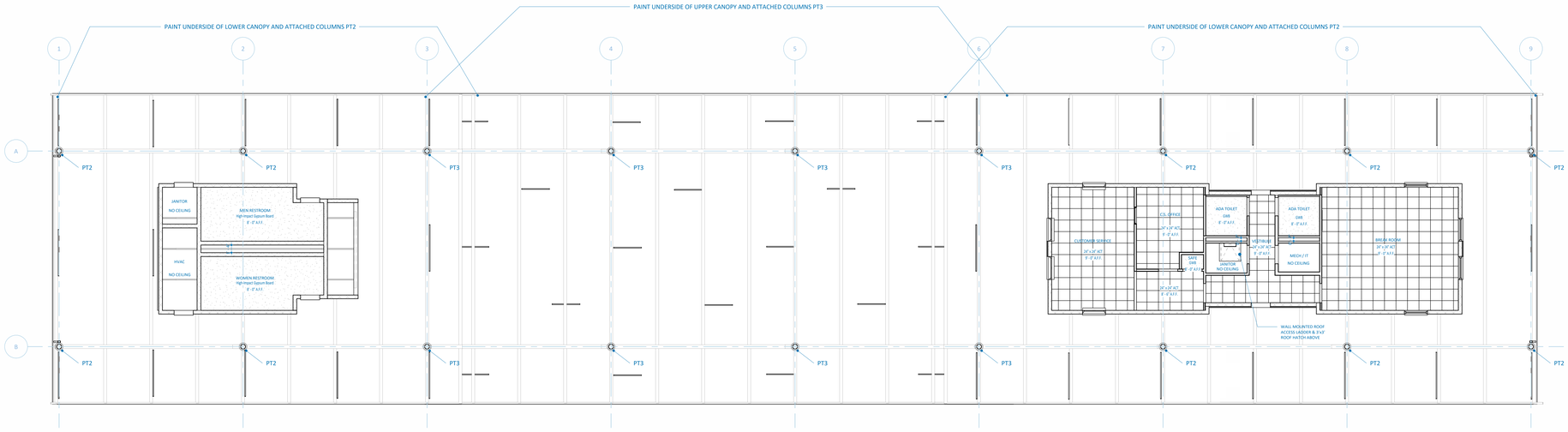
Discipline: Owner Consultant
QSC SERWICES, LLC
PMB #69
545 BRENT LN. PENSACOLA, FL
P - 309.231.8272

OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

Revisions

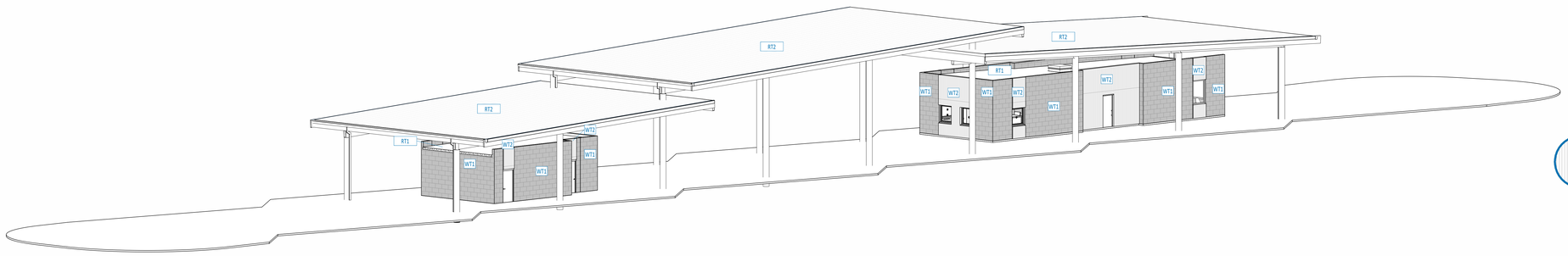
PROJECT NO. 2613
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OVERALL KEYNOTE SCHEDULES AND GENERAL NOTES X000

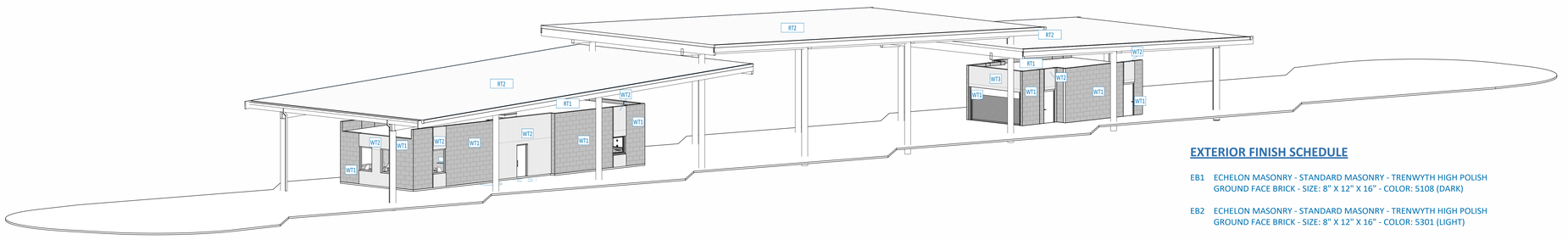


9 REFLECTED CEILING PLAN

1/8" = 1'-0"

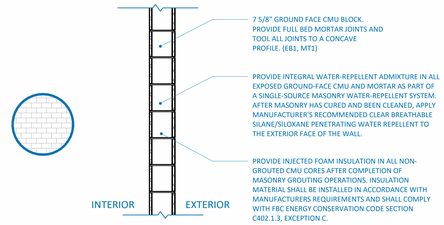


1 3D VIEW, ROOF AND EXTERIOR WALL ASSEMBLIES

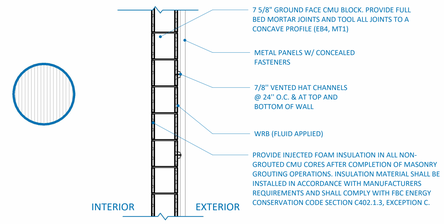


2 3D VIEW, ROOF AND EXTERIOR WALL ASSEMBLIES

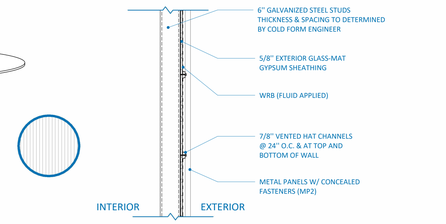
EXTERIOR WALL TYPE (WT) ASSEMBLIES



WT1

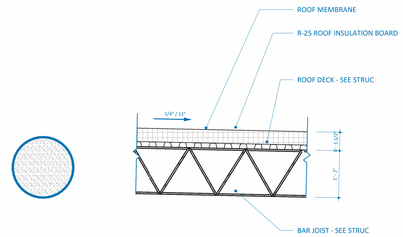


WT2

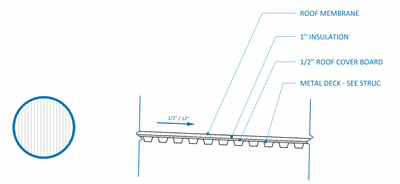


WT3

ROOF TYPE (RT) ASSEMBLIES



RT1



RT2

EXTERIOR FINISH SCHEDULE

EB1 ECHELON MASONRY - STANDARD MASONRY - TRENWYTH HIGH POLISH GROUND FACE BRICK - SIZE: 8" X 12" X 16" - COLOR: 5108 (DARK)

EB2 ECHELON MASONRY - STANDARD MASONRY - TRENWYTH HIGH POLISH GROUND FACE BRICK - SIZE: 8" X 12" X 16" - COLOR: 5301 (LIGHT)

EB3 ECHELON MASONRY - STANDARD MASONRY - TRENWYTH HIGH POLISH GROUND FACE BRICK - SIZE: 8" X 8" X 16" - COLOR: 5301 (LIGHT)

EB4 ECHELON MASONRY - STANDARD MASONRY - TRENWYTH HIGH POLISH GROUND FACE BRICK - SIZE: 8" X 8" X 16" - COLOR: 5301 (DARK)

MP1 MBCI - CONCEALED FASTENING SYSTEM - FW-120-2 PANEL, 24 GAUGE, SMOOTH - COLOR: BROWNSTONE

MP2 ARMSTRONG WALL & ROOF SYSTEMS - PBU PANEL - COLOR: POLAR WHITE

MT1 SOLOMON COLORS, INC., CONCENTRATED MORTAR - COLOR: 22X TAN

PT2 SHERWIN WILLIAMS - COLOR: QUIETUDE SW6212
PRIME: MACROPOXY 646 FC, 5-10 MILS DFT - TOPCOAT: ACROLON ULTRA, 2-3 MILS DFT

PT3 SHERWIN WILLIAMS - SURF GREEN SW6473
PRIME: MACROPOXY 646 FC, 5-10 MILS DFT - TOPCOAT: ACROLON ULTRA, 2-3 MILS DFT

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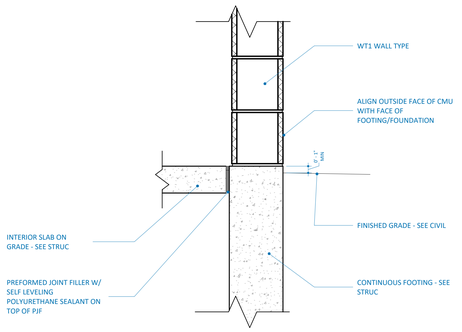
Discipline: Owner Consultant
OSC SERVICES, LLC
PMB #69
545 BRENT LN. PENSACOLA, FL
P - 309.231.8272

OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

Revisions

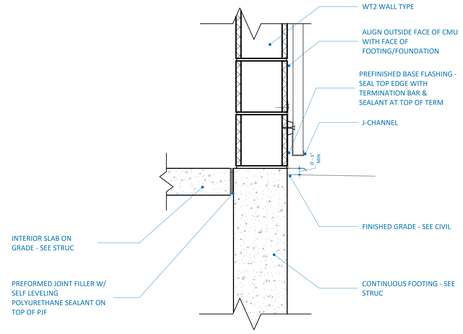
PROJECT NO. 2613
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3D VIEWS AND WALL / ROOF ASSEMBLIES X001



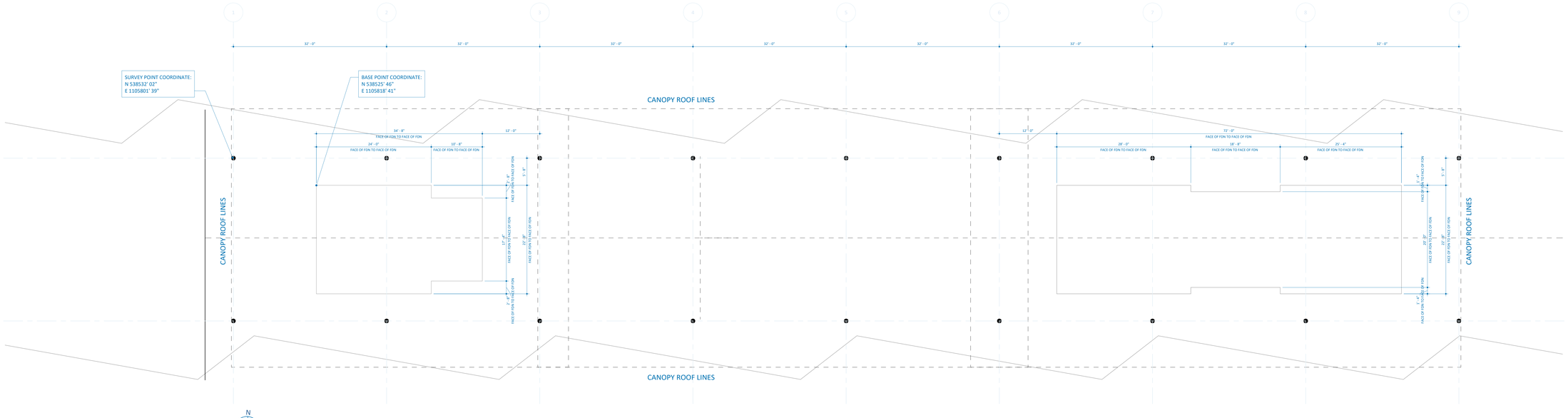
2 TYP FOUNDATION DETAIL AT WT1

1 1/2" = 1'-0"



3 TYP FOUNDATION DETAIL AT WT2

1 1/2" = 1'-0"



1 FIRST FLOOR LAYOUT PLAN

1/8" = 1'-0"

N

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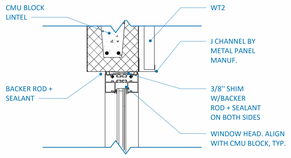
Discipline: Owner Consultant
QSC SERVICES, LLC
PMB #69
545 BRENT LN. PENSACOLA, FL
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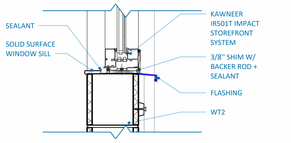
OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

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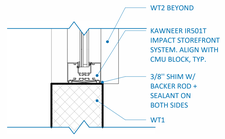
LAYOUT PLAN **X002**





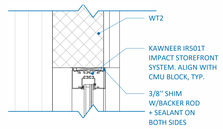
2 STOREFRONT WINDOW DETAIL - HEAD & SILL AT WT2

1 1/2" = 1'-0"



3 STOREFRONT WINDOW DETAIL - JAMB AT WT1

1 1/2" = 1'-0"



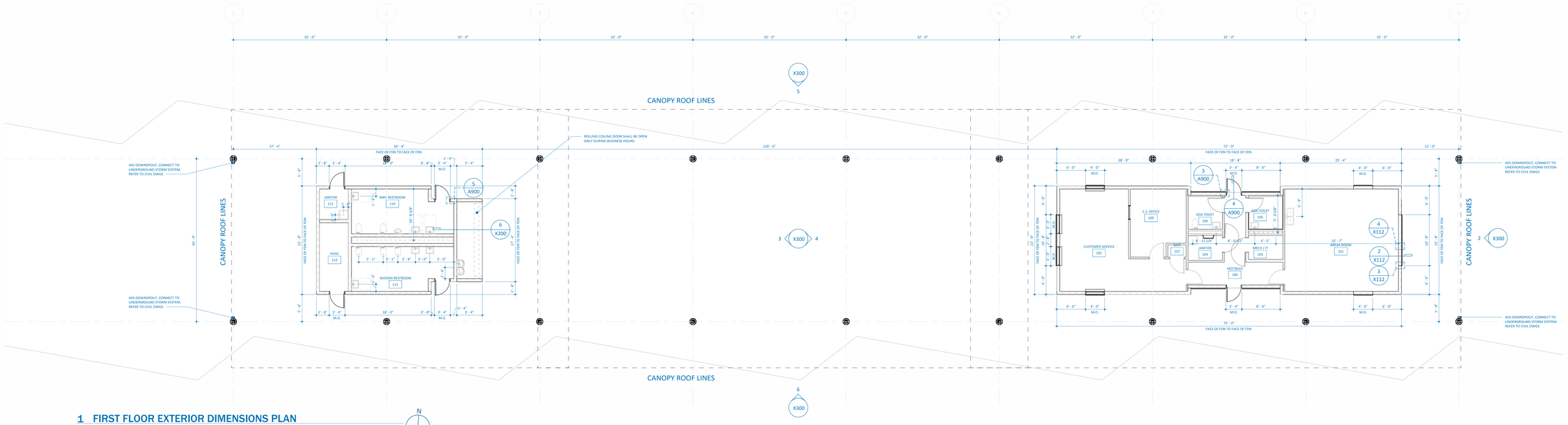
4 STOREFRONT WINDOW DETAIL - JAMB AT WT2

1 1/2" = 1'-0"

DIMENSIONING NOTES

Key	Name	Comments
1		DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD OR FACE OF STUD TO FINISH FACE OF EXISTING WALL.
2		IN ADDITION TO REQUIREMENTS NOTED FOR EXTERIOR WALLS ON THIS SHEET, REFER TO EXTERIOR WALL ASSEMBLIES X-SHEET FOR ADDITIONAL INFORMATION.

PROVIDE UNDER SLAB AT VAPOR BARRIER



1 FIRST FLOOR EXTERIOR DIMENSIONS PLAN

1/8" = 1'-0"

N

ESCAMBIA COUNTY AREA TRANSIT - FACILITY: 03 - TRANSFER CENTER
41 CLARINDA LN
PENSACOLA, FL, 32505

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DALLAS, TX 75243
P - 214.739.8100

Discipline:
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DALLAS, TX 75243
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Discipline:
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DALLAS, TX 75243
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Discipline:
KEDbluestone
5518 NW 88th Street,
JHONSTON, IA 50131
P - 515.727.0700

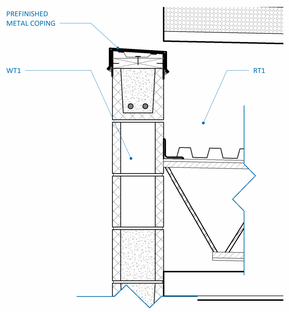
Discipline: Owner Consultant
QSC SERVICES, LLC
PMB #69
545 BRENT LN. PENSACOLA, FL
P - 309.231.8272

OWNER ID:
Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

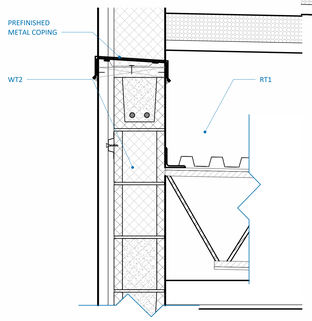
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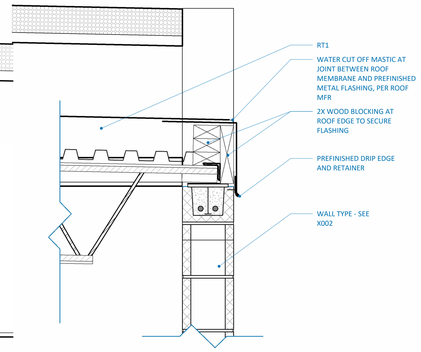
EXTERIOR DIMENSION PLAN X112



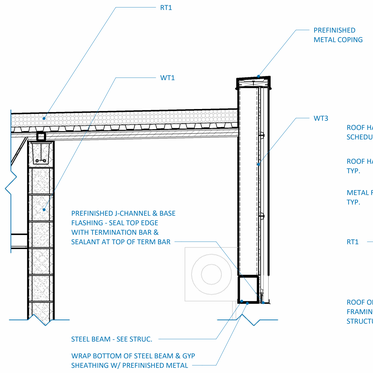
3 TYP PARAPET DETAIL AT WT1
1 1/2" = 1'-0"



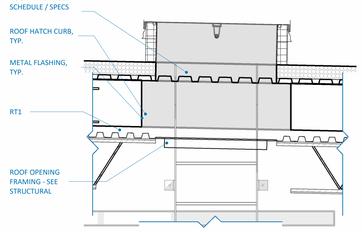
4 TYP PARAPET DETAIL AT WT2
1 1/2" = 1'-0"



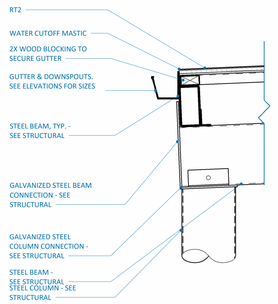
5 TYP GUTTER DETAIL @ BUILDINGS
1 1/2" = 1'-0"



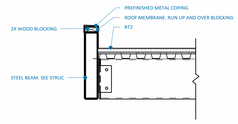
6 PARAPET DETAIL AT VENDING AREA
3/4" = 1'-0"



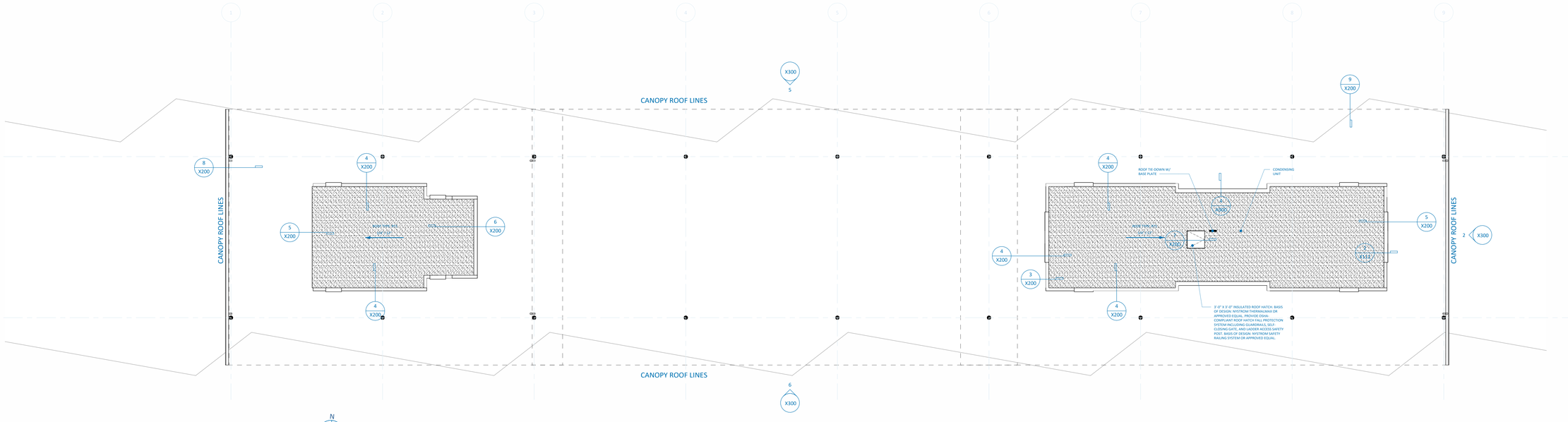
7 ROOF HATCH DETAIL
3/4" = 1'-0"



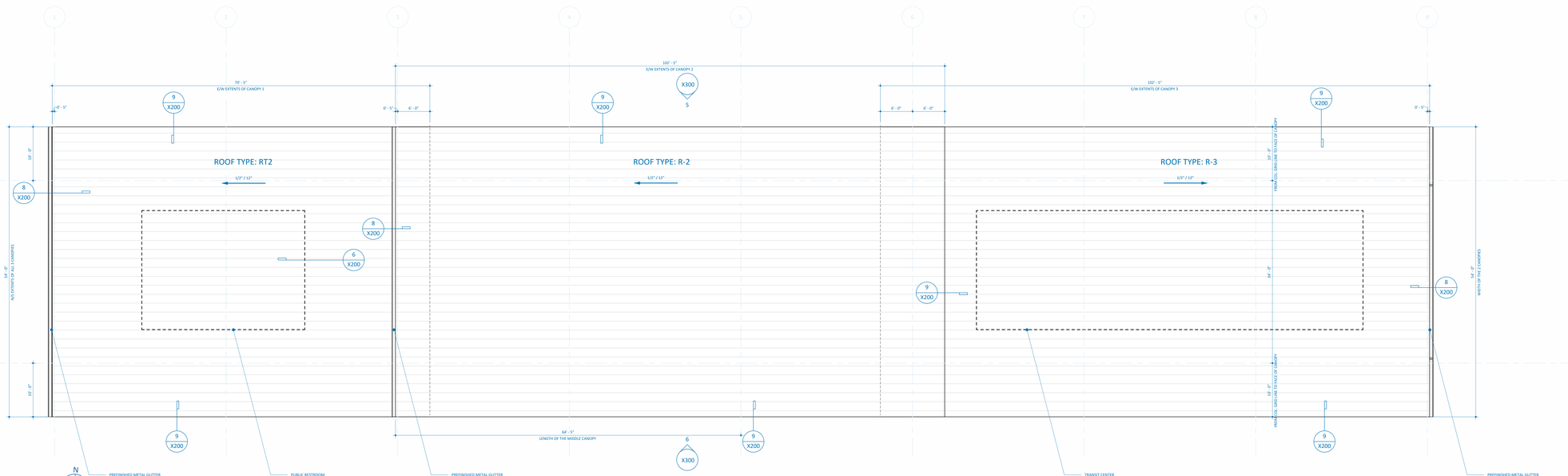
8 GUTTER DETAIL AT CANOPY
3/4" = 1'-0"



9 CANOPY EDGE DETAIL
3/4" = 1'-0"



1 TRANFER CENTER BUILDINGS ROOF PLAN
1/8" = 1'-0"



2 CANOPY ROOF PLAN
1/8" = 1'-0"

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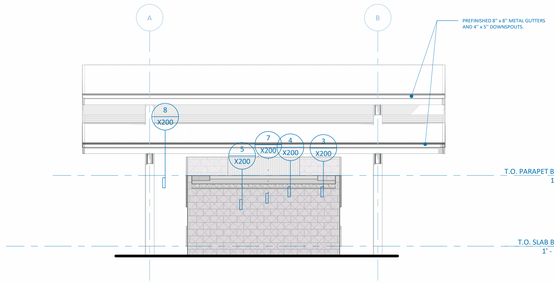
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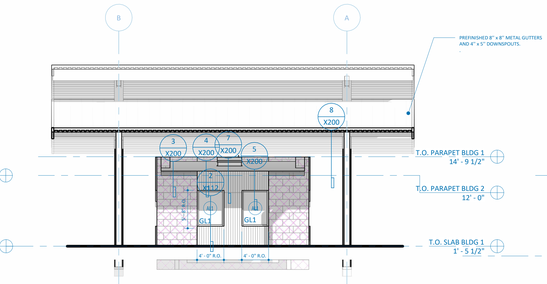
PROJECT NO. 2613
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ROOF PLAN AND ROOF DETAILS X200



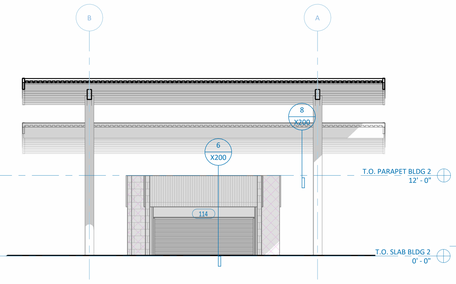
1 EAST ELEVATION PUBLIC RESTROOM

1/8" = 1'-0"



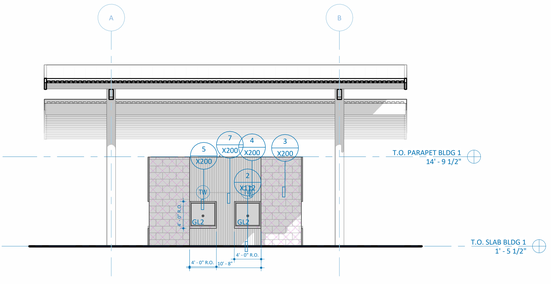
2 WEST ELEVATION TICKET BUILDING

1/8" = 1'-0"



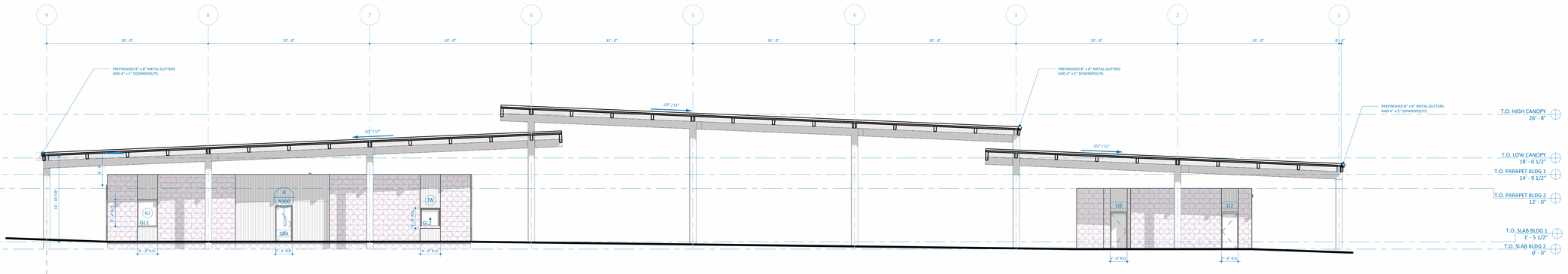
3 WEST ELEVATION PUBLIC RESTROOM

1/8" = 1'-0"



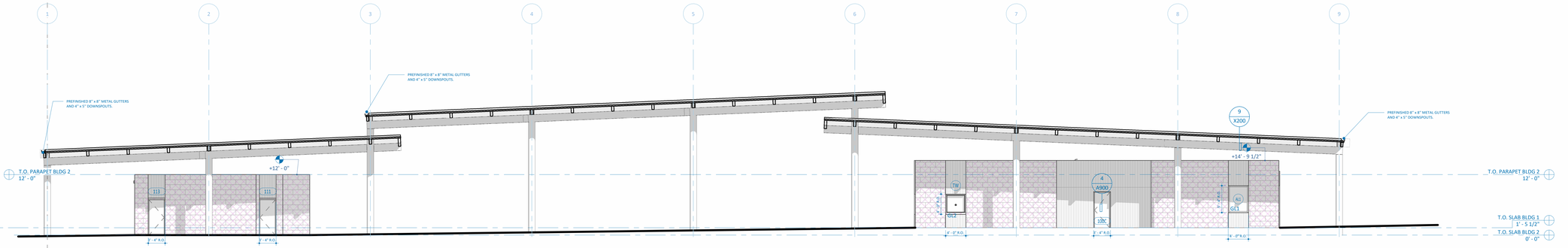
4 EAST ELEVATION TICKET BUILDING

1/8" = 1'-0"



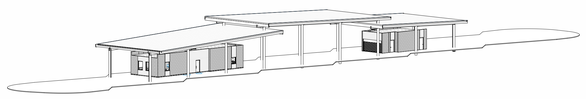
5 NORTH ELEVATION

1/8" = 1'-0"

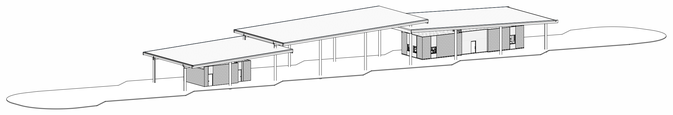


6 SOUTH ELEVATION

1/8" = 1'-0"



7 NORTHEAST AERIAL VIEW



8 SOUTHWEST AERIAL VIEW

GLAZING SCHEDULE

GL1	1" CLEAR INSULATED
GL2	BULLETPROOF GLAZING

GENERAL ELEVATION NOTES

1. SEE X001 FOR EXTERIOR WALL TYPE ASSEMBLIES
2. SEE A900 FOR DOOR DETAILS
3. SEE X112 FOR WINDOW DETAILS

EXT WINDOW SCHEDULE

TYPE	MANUFACTURER	MODEL	NOTES
AL1	KAWNEER	IRS01T IMPACT STOREFRONT	
TW	READY ACCESS	EXTERIOR TICKET WINDOW WITH BULLETPROOF GLASS AND DEAL TRAY	PROVIDE FACTORY-FABRICATED TRANSACTION WINDOW ASSEMBLY, INCLUDING FRAMING, GLAZING, TRANSACTION HARDWARE, AND ACCESSORIES. ASSEMBLY SHALL BE DESIGNED FOR PROJECT-SPECIFIC ASCE 7-22 COMPONENT AND CLADDING PRESSURES INDICATED ON THE DRAWINGS FOR VULT = 154 MPH, EXPOSURE C, RISK CATEGORY II. ASSEMBLY SHALL COMPLY WITH WIND-BORNE DEBRIS REGION REQUIREMENTS AND BE TESTED IN ACCORDANCE WITH ASTM E1886 AND ASTM E1996. PROVIDE COMPLETE ASSEMBLY WITH UL 752 LEVEL 3 BALLISTIC RESISTANCE. THERMALLY BROKEN FRAMING AND GLAZING SHALL PROVIDE NFRC-CERTIFIED THERMAL PERFORMANCE OF U-FACTOR ≤ 0.50 AND SHGC ≤ 0.25 FOR SOUTH/EAST/WEST EXPOSURES OR ≤ 0.33 FOR NORTH EXPOSURES. SUBMIT STRUCTURAL, IMPACT, BALLISTIC, AND THERMAL PERFORMANCE DOCUMENTATION SIGNED AND SEALED AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

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EXTERIOR ELEVATIONS X300

ABBREVIATIONS

GENERAL

A/C	Air Conditioning
A.F.F.	Above Finished Floor
APPROX	Approximate
ARCH	Architectural
BLDG	Building
BM	Beam
BOT	Bottom
BSMT	Basement
CL	Centerline
CLG	Ceiling
CONC	Concrete
CONST	Construction
CONTR	Contractor
CTR	Center
DET	Detail
DIM	Dimension
DN	Down
E	East
E.O.S.	Edge of Slab
EL	Elevation
ENCL	Enclosure
EXST	Existing
EXP	Expansion
FC	Fiber Cement
F.G.	Finish Grade
FIN	Finish
F.O.C.	Face of Concrete
F.O.F.	Face of Finish
F.O.M.	Face of Masonry
F.O.S.	Face of Stud
FR	Frame
FS	Full Size
FT	Foot or Feet
FUT	Future
GA	Gauge
GALV	Galvanized
GD	Grade
GND	Ground
G.B.	Gypsum Board
H.B.	Hose Bib
H.C.	Hollow Core
HCP	Handicapped
HORIZ	Horizontal
HR	Hour
HT	Height
H.W.	Hot Water
HVAC	Heating, Ventilation and Cooling
I.D.	Inside Diameter
INCL	Including
JNT	Joint
JST	Joist
L.H.	Left Hand
LT	Light
MATL	Material
MAX	Maximum
MECH	Mechanical
MET	Metal
MFR	Manufacturer
MH	Manhole
MIN	Minimum
MISC	Miscellaneous
MTD	Mounted
N	North
N.I.C.	Not in Contract
NO	Number
NOM	Nominal
S	South
S.A.D.	See Architectural Drawings
S.S.	Stainless Steel
S.S.D.	See Structural Drawings
STD	Standard
STRUCT	Structural
SYM	Symmetrical
SUSP	Suspended
THK	Thick or Thickness
T.O.C.	Top of Curb
T.O.D.	Top of Drain
T.O.T.	Top of Truss
T.O.W.	Top of Wall
TYP	Typical
U.O.N.	Unless Otherwise Noted
UNF	Unfinished
VERT	Vertical
V.I.F.	Verify in Field
W	West
W/	With
W/O	Without

EXTERIOR WALLS

AB	Anchor Bolt
AVB	Air/Vapor Barrier
CI	Continuous Insulation
CMU	Concrete Masonry Unit
FDN	Foundation
FTG	Footing
MB	Metal Backup
SFRM	Spray-Applied Fire-Resistant Material
SHT	Sheathing
WRB	Weather-Resistant Barrier

CLADDING & FINISHES

ACC	Architectural Concrete Cladding
ACM	Aluminum Composite Material
A.F.F.	Above Finished Floor
AL PN	Aluminum Panel
ANOD	Anodized
ASPH	Asphalt
BRK	Brick
FCB	Fiber Cement Board
FCP	Fiber Cement Panel
EIFS	Exterior Insulation and Finish System
GRFC	Glass Fiber Reinforced Concrete
MCM	Metal Composite Material
PCP	Precast Concrete Panel
T&G	Tongue and Groove
TRM	Trim
VDL	Vertical Drip Leg
WD SLP	Wood Siding, Lap

OPENINGS

ALUM	Aluminum
CLR	Clear (glass or opening)
FIX	Fixed (window)
GL	Glass or Glazing
IGU	Insulated Glass Unit
INSUL	Insulation
LVR	Louver
M.O.	Masonry Opening
OH	Overhead (door)
OPNG	Opening
R.O.	Rough Opening
SGU	Single Glass Unit
SL	Sill
WDW	Window

ROOF & DRAINAGE

B.U.R	Built Up Roofing
DS	Downspout
EPDM	Ethylene Propylene Diene Monomer
GUT	Gutter
INS	Insulation
MBR	Membrane
PAR	Parapet
RD	Roof Drain
RFG	Roofing
SCUP	Scupper
T.O.P.	Top of Parapet
TPO	Thermoplastic Polyolefin (membrane)

PLAN SYMBOLS

VIEW TITLE — 1 DRAWING TITLE, X" = Y'-Y"

NORTH ARROW — N

GRID HEAD — D.27

SECTION — DETAIL NO. 1, SHEET NO. A101

ELEVATION — DETAIL NO. 1, SHEET NO. A101

DETAIL — DETAIL NO. X, SHEET NO. A.X.X, REFERENCE AREA

DEMOLITION KEYNOTE — ?

PROPOSED KEYNOTE — ?

DOOR TAG — 000

ROOM TAG — ROOM, 1

CEILING TAG — CEILING TYPE, X' - Y" A.X.X

WINDOW TAG — 1

ROOM TAG (FINISHES) — ROOM, 101, FLR | BASE, WALL

ROOM FINISH TAG — 0

REVISION CLOUD — REVISION NO. 01, REVISION CLOUD

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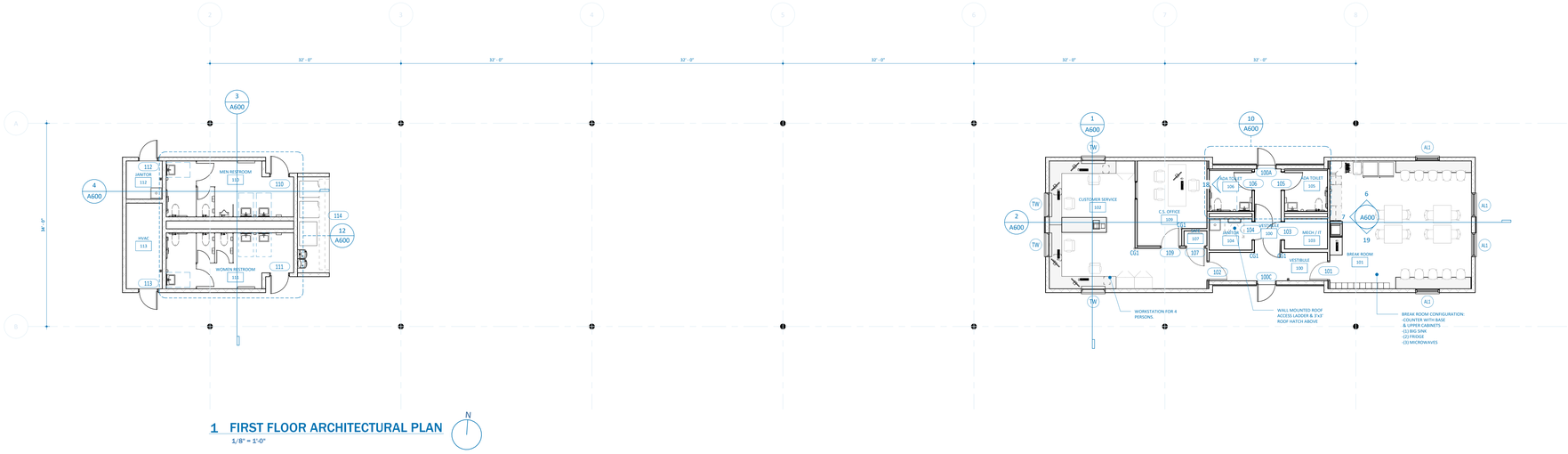
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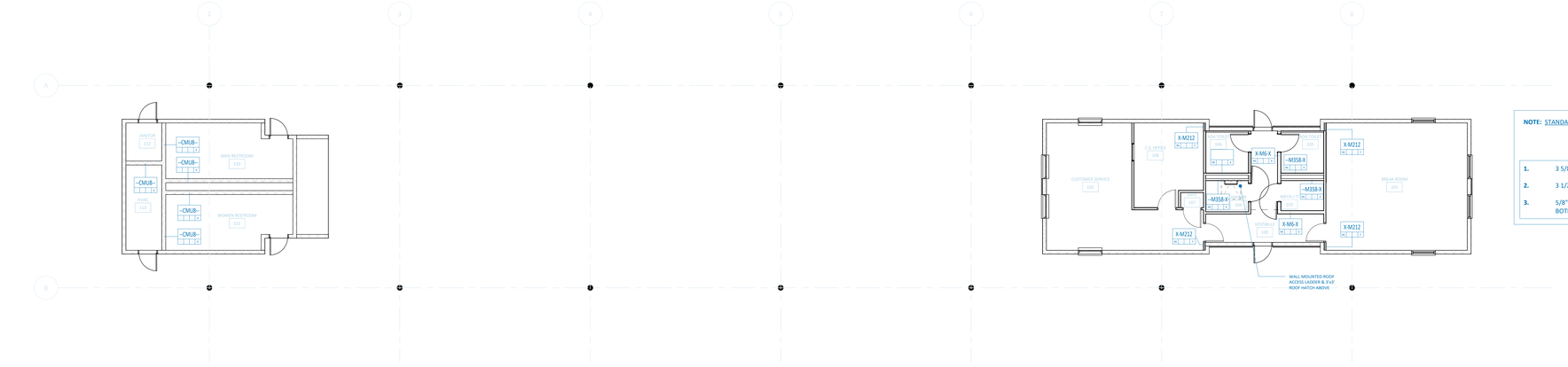
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ARCH ABBREVIATIONS AND SYMBOLS LEGEND **A000**



1 FIRST FLOOR ARCHITECTURAL PLAN

1/8" = 1'-0"



2 DIMENSIONS AND WALL TYPE PLAN

1/8" = 1'-0"

NOTE: STANDARD PARTITION TYPE

X-M358-X

1. 3 5/8" METAL STUDS TO DECK
2. 3 1/2" BATT INSULATION, FULL HEIGHT
3. 5/8" TYPE 'X' GYPSUM BOARD ON BOTH SIDES OF STUDS, FULL HEIGHT



3 REFLECTED CEILING PLAN

1/8" = 1'-0"

DIMENSIONING NOTES

Key Name	Comments
1	DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD OR FACE OF STUD TO FINISH FACE OF EXISTING WALL.
2	IN ADDITION TO REQUIREMENTS NOTED FOR EXTERIOR WALLS ON THIS SHEET, REFER TO EXTERIOR WALL ASSEMBLIES X-SHEET FOR ADDITIONAL INFORMATION.

GENERAL SHEET NOTES

- SEE G000 FOR CODE PLANS & GENERAL INFORMATION
- SEE 'X' SHEETS FOR EXTERIOR ASSEMBLIES & ADDITIONAL INFORMATION
- AT TOILETS USE MOISTURE RESISTANT GYPSUM BOARD IN LIEU OF TYPE 'X' GYPSUM BOARD
- AT WALL TILE USE TILE BACKER IN LIEU OF TYPE 'X' GYPSUM BOARD

WALL LEGEND

NEW CONSTRUCTION WALL AND PARTITION

NEW CONSTRUCTION DOOR AND FRAME

CEILING TYPES

2 X 2 SUSPENDED ACOUSTICAL TILE

GYPSUM

PARTITION LEGEND

CMU

PARTITION TAG

X-M358-X

INS | UL | FR | P

- TYPE MARK
- WALL TYPE NOTES
- FIRE RATING (IN HRS)
- UL CODE
- INSULATION

P	PARTITION WITH CORE MATERIAL TO DECK ABOVE, SHEATHING TO 6" ABOVE CEILING
B	BARRIER WITH CORE MATERIAL AND SHEATHING TO DECK ABOVE
#	SEE NOTES COLUMN IN PARTITION TYPE SCHEDULE

-	NO INSULATION
INS	BATT INSULATION, FULL HEIGHT AND DEPTH OF CORE MATERIALS

TYPE MARK

X-M358-X

- SHEATHING LAYER 02
- SIZE OF CORE MATERIAL
- CORE MATERIAL
- SHEATHING LAYER 01

ABBREVIATIONS

CORE MATERIAL

CMU	CONCRETE MASONRY UNIT
M	METAL STUD

SHEATHING MATERIAL

-	NO MATERIAL
X	TYPE X GYP

LIGHTING LEGEND

- 2'X2' LED FLAT PANEL
- 2'X2' LED FLAT PANEL W/ EMERGENCY BATTERY
- 2' X 2' CEILING DIFFUSER
- 2' X 2' CEILING EXHAUST
- 4" X 2' RECESSED LED LIGHT
- 4" X 2' LINEAR SLOT DIFFERING
- 6" X 2' RECESSED LED LIGTH
- 2' X 4' LED FLAT PANEL
- 4" DIAMETER OPEN DOWNLIGHT
- DUCT MOUNT GRILL
- CEILING MOUNTED EXIT SIGN

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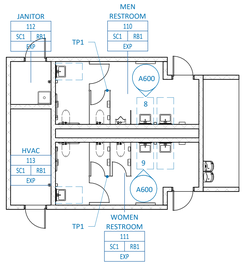
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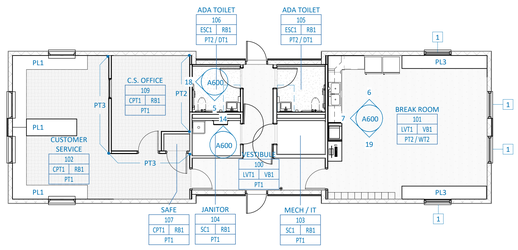
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1 FINISH PLAN

1/8" = 1'-0"



ABBREVIATIONS

-	NO MATERIAL
X	EXISTING
ACT ( )	ACOUSTICAL CEILING TILE (TYPE)
AT ( )	ACOUSTICAL TILE / BAFFLE (TYPE)
CB	INTEGRAL COVE BASE
CG ( )	CORNER GUARD (TYPE)
CONC	CONCRETE
CPT ( )	CARPET (TYPE)
ESC ( )	EPOXY SEALED CONCRETE (TYPE)
GB ( )	GLAZED BRICK (TYPE)
GYP BD	GYPSUM BOARD
HPF ( )	HIGH PERFORMANCE FLOORING
LVT ( )	LUXURY VINYL TILE (TYPE)
PL ( )	PLASTIC LAMINATE (TYPE)
PT ( )	PAINT (TYPE)
RB ( )	RESILIENT BASE (TYPE)
RS ( )	ROLLER SHADE (TYPE)
SSM ( )	SOLID SURFACE MATERIAL (TYPE)
STN ( )	STAIN (TYPE)
SVF ( )	SHEET VINYL FLOORING (TYPE)
TP ( )	TOILET PARTITION (TYPE)
VB ( )	VINYL BASE (TYPE)
WCPT ( )	WALKOFF CARPET (TYPE)
WP ( )	WALL PROTECTION (TYPE)
WT ( )	WALL TILE (TYPE)

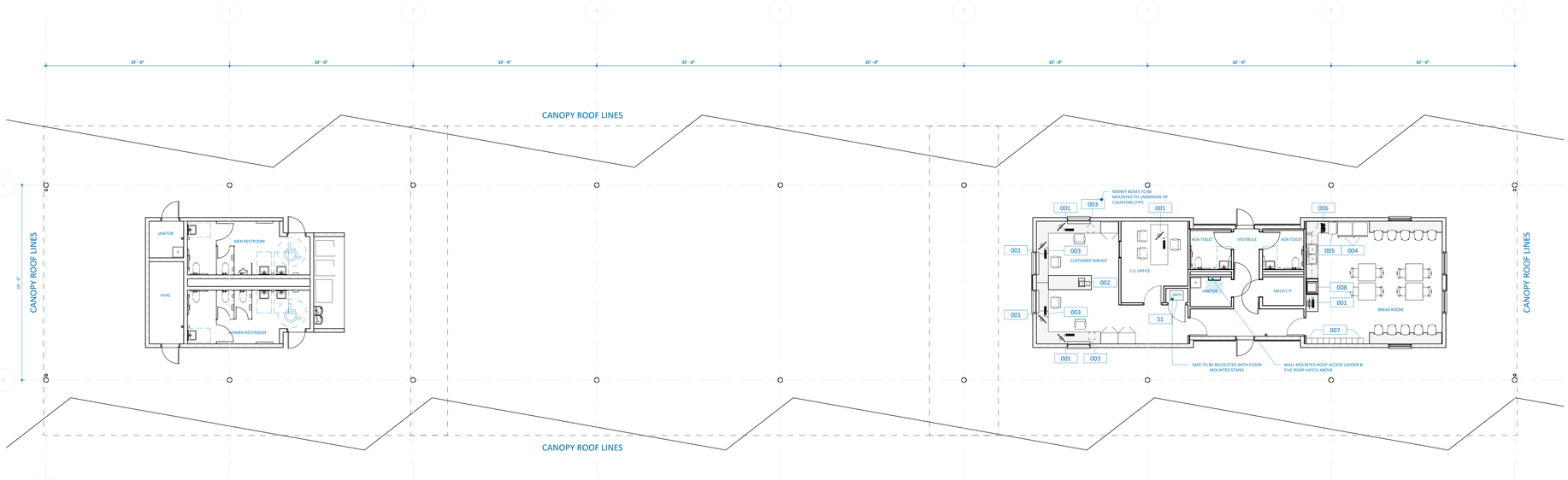
GENERAL FINISH NOTES

1. ALL CHANGE OF FLOOR MATERIALS SHALL OCCUR UNDER DOOR UNLESS OTHERWISE NOTED. ADD TRANSITION STRIP WHERE FLOORING HEIGHTS CHANGE.
2. SOFFITS TO BE PAINTED THE SAME COLOR AS ADJACENT WALLS UNLESS OTHERWISE NOTED
3. PAINT ALL NEW HM DOORS AND FRAMES PT4 UNLESS OTHERWISE NOTED
4. INTERIOR PAINTED SURFACES SHALL BE COMMERCIAL GRADE, HIGH-HIDE SCRUBBABLE, AND SATIN FINISH LATEX ACRYLIC WITH THREE FULL COATS, ONE PRIMER AND TWO FINISH COATS
5. ALL CASEWORK TO BE PL2 AND COUNTERTOPS TO BE SSM2 UNLESS NOTED OTHERWISE.
6. WALL CABINET DEPTH TO BE 12" AND BASE CABINET DEPTH TO BE 24" UNLESS NOTED OTHERWISE.
7. ALL CABINETS ARE TO HAVE TWO ADJUSTABLE SHELVES AND NO LOCKS.
8. ROOM TAG DESCRIPTION:



GENERAL FINISH KEYNOTES 0

1. INSTALL MOTORIZED ROLLER SHADES (RS2)
2. INSTALL MANUAL ROLLER SHADES (RS1)
3. STAIR TREADS TO BE LVT1. METAL RISERS TO BE PAINTED PT1. STRINGERS TO BE PAINTED PT4.
4. RAILINGS TO HAVE CLEAR ANODIZED FINISH. HANDRAIL TO BE WOOD WITH STAIN TO MATCH DS1.



2 FURNITURE & EQUIPMENT PLAN

1/8" = 1'-0"

CONTRACTOR TO PROVIDE BLOCKING AT ALL WALL-MOUNTED EQUIPMENT ITEMS

EQUIPMENT SCHEDULE

???

NO.	DESCRIPTION	FURNISHED BY	INSTALLED BY	COUNT
BREAK ROOM				
004	REFRIGERATOR	OWNER	OWNER	2
005	ICE & WATER MACHINE	OWNER	OWNER	1
006	COFFEE MACHINE	OWNER	OWNER	1
007	TEN (10) HALF HEIGHT LOCKERS (20 TOTAL) 12"W x 12"D x 60"H	CONTRACTOR	CONTRACTOR	10
008	MICROWAVE	OWNER	OWNER	3
C.S. OFFICE				
001	MONITOR, KEYBOARD & MOUSE	OWNER	OWNER	1
CUSTOMER SERVICE				
001	MONITOR, KEYBOARD & MOUSE	OWNER	OWNER	5
002	PRINTER	OWNER	OWNER	1
003	MONEY BOX	OWNER	OWNER	4
SAFE				
S1	Heavy Duty Multi Purpose Safe | MP412820 TB8 - RELOCATE FROM EXISTING FACILITY	OWNER	OWNER	1

FURNITURE SCHEDULE

NOT IN CONTRACT

DESCRIPTION	COUNT
BREAK ROOM	
3'-0" x 3'-0" TABLE	4
BAR HEIGHT STOOL	10
DINING CHAIR	8
C.S. OFFICE	
DESK	1
TASK CHAIR	3
CUSTOMER SERVICE	
3'-0"x7'-0" STORAGE CABINET	3
TASK CHAIR	4

Grand total: 33

COLOR

FLOORS

- CPT1 INTERFACE - THIRD SPACE COLLECTION - THIRD SPACE 301 - COLOR: MIST - SIZE: 50 CM X 50 CM
- ESC1 SHERWIN WILLIAMS - HYBRI-FLEX EQ Q28-36, ARMOR TOP GLOSS WITH GRIT BY DUR-A-FLEX.COM - COLOR: MARINA - WITH COVE BASE
- LVT1 MANNINGTON - UNINTERRUPTED COLLECTION - UNINTERRUPTED WOOD - COLOR: EARTHY CHESTNUT UN206 - 7.25" X 48" - 4.0 MM
- WCPT MANNINGTON COMMERICAL - FRIXTION COLLECTION - CHARGE - COLOR: 11360 KINETIC - 18" X 36"
- RB1 JOHNSONITE THERMOPLASTIC RUBBER WALL BASE 1/8" (TYPE TP) - DURACOVE 4" H - COLOR: CHARCOAL 20 (OFFICES)
- VB1 ROPPE VINYL WALL BASE - 1/8" STANDARD TOE BASE (TYPE TV) - 4" H - COLOR: CHARCOAL 123 (COMMON AREAS/LOBBY)
- SC1 SHERWIN WILLIAMS CLARISHIELD SOLVENT-BASED WET LOOK CLEAR SEALER

WALLS (SEE GENERAL FINISH NOTES FOR ADDITIONAL PAINT DETAILS)

- EXP EXPOSED, UNPAINTED CMU
- PT1 SHERWIN WILLIAMS - SATIN FINISH - SNOWBOUND SW7004 (GENERAL)
- PT2 SHERWIN WILLIAMS - SATIN FINISH - QUIETUDE SW6212 (ACCENT)
- PT3 SHERWIN WILLIAMS - SATIN FINISH - SURF GREEN SW6473 (ACCENT)
- PT4 SHERWIN WILLIAMS - SEMI-GLOSS FINISH - GRIZZLE GRAY SW7068 (HM DOORS & FRAMES)
- PT5 SHERWIN WILLIAMS - FLAT FINISH - EXTRA WHITE SW7006 (GYP CEILINGS)
- PT6 SHERWIN WILLIAMS - SATIN FINISH - AMAZING GRAY SW7044 (STRUCTURAL & EXPOSED CEILINGS)
- DT1 MILESTONE TILE - NET-ZERO COLLECTION - COLOR: IVORY - SIZE: 12"X24" - BRICK INSTALLATION, CENTERED ON WALL - UP TO 4'-0" AFF - BRUSHED STAINLESS STEEL L-SHAPE TILE TRIM ALONG UNFINISHED EDGES
- DT2 MSI - FLAMENCO - COLOR: CELTIC AQUA - SIZE: 2"X18" - BRICK INSTALLATION, CENTERED ON WALL - BRUSHED STAINLESS STEEL L-SHAPE TILE TRIM ALONG UNFINISHED EDGES
- GT1 MAPEI GROUT - COLOR: WARM GRAY 5093 - 1/8" GROUT LINES
- GT2 MAPEI GROUT - COLOR: CASTLE WALL 5227 - 1/8" GROUT LINES
- GB1 GLEN-GERY - CUSTOM GLAZED FACEBRICK - SMOOTH TEXTURE/FINISH - SIZE: 7 5/8" x 4 3/8" x 2 1/4" - SINGLE FINISHED FACE & 90° "L" CORNERS (2 FINISHED SIDES) - COLOR: TO MATCH SHERWIN WILLIAMS SURF GREEN SW6473
- WP1 ACROVYN BY DESIGN CUSTOM GRAPHICS WALL PROTECTION - TOTAL SIZE: 8'-0 1/2" x 24'-9". (TRIM TO FOLLOW STAIR STRINGER)
- AP1 KIREI - UMI PANEL - COLOR: IVY

PLASTIC LAMINATE

- PL1 WILSONART - HARMONIA 8297-38
- PL2 WILSONART - TRACELESS - SLATE VELVET 15507

SOLID SURFACE

- SSM1 CORIAN - CARBON CONCRETE
- SSM2 CORIAN - NEUTRAL CONCRETE
- SSM3 INPRO INTEGRAL SINK BOWL - NEAT 859P, GLACIER WHITE

CEILINGS

- AT1 USG S60 FISSURED BASIC ACOUSTICAL PANELS - SQUARE - 24"X24" - DONN BRAND DX/DX, 15/16" ACOUSTICAL SUSPENSION SYSTEM
- AT2 USG DONN BRAND TRANSITION MOLDING (FOR DRYWALL-TO-ACT TRANSITIONS)
- AT3 USG DRYWALL SUSPENSION SYSTEM SC2238 - FLAT CEILINGS

CORNER GUARDS

- CG1 INPRO SURFACE MOUNTED STAINLESS STEEL - UP TO 4' - 0"

MISC

- DS1 VT INDUSTRIES - WHITE BIRCH - COLOR: UMBER UM24
- RS1 HARDWARE: CLUTCH-OPERATED FLEXSHADE NEXD W/ HEADBOX, SILVER SHADE: DRAPER SHEERWEAVE SW2400 (2410) 3%, PEARL GRAY
- RS2 HARDWARE: FLEXSHADE 2 MOTORIZED, SILVER SHADE: DRAPER SHEERWEAVE SW2400 (2410) 3%, PEARL GRAY

TOILET PARTITIONS

- TP1 ASI GLOBAL PARTITIONS - COLOR-THRU PHENOLIC TOILET PARTITIONS - STAINLESS STEEL VAULT HINGE - CEILING HUNG - STANDARD PRIVACY - COLOR: CHARCOAL 3077

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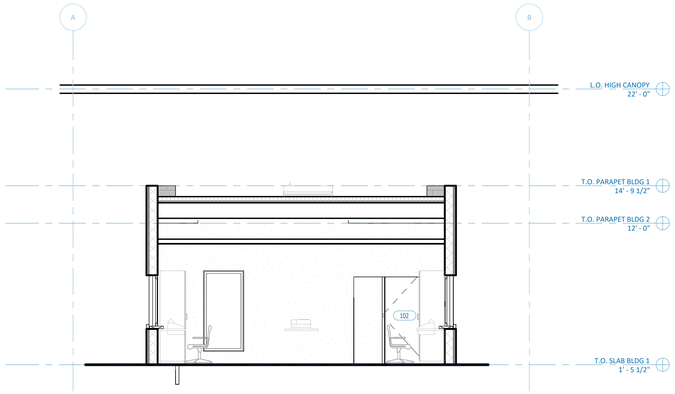
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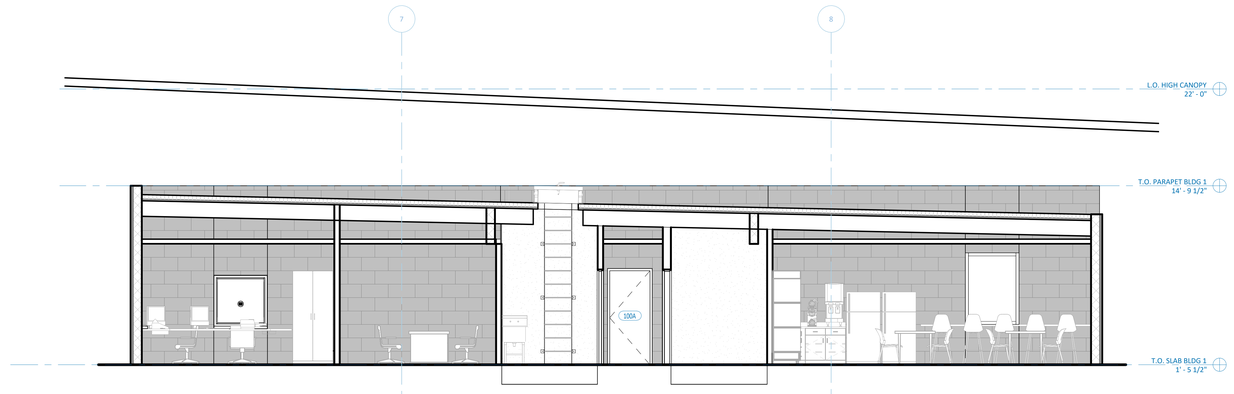
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FURNITURE AND EQUIPMENT PLAN **A115**



1 TRANSFER CENTER BLDG SECTION B

1/4" = 1'-0"



2 TRANSFER CENTER BLDG SECTION - A

1/4" = 1'-0"

TOILET ACCESSORY SCHEDULE

SEE TYPICAL ADA DETAILS & EQUIPMENT MOUNTING HEIGHTS FOR MOUNTING HEIGHTS

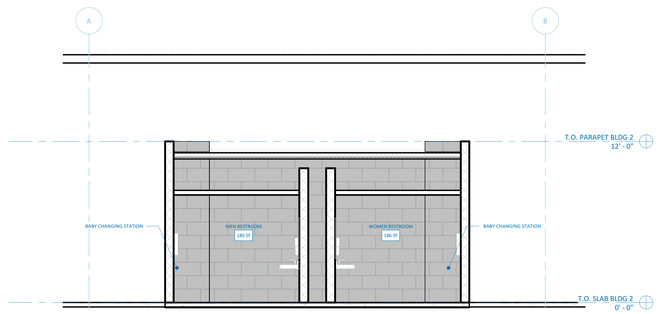
MARK	DESCRIPTION
01	36" HORIZONTAL GRAB BAR
02	42" HORIZONTAL GRAB BAR
03	18" VERTICAL GRAB BAR
04	TOILET PAPER DISPENSER
05	SOAP DISPENSER
06	SANITARY DISPOSAL UNIT
07	PAPER TOWEL DISPENSER
08	CHANGING STATION
10	Mirror - Frameless - LED Backlight - Plate Glass - Frosted - 36"W X 48"H (0640-4836)
11	Mirror - Stainless Steel Frame - Vandal Proof - 24"W X 36"H

SYMBOLS LEGEND

2	DUPLEX RECEPTACLE
4	QUAD RECEPTACLE
LS	LIGHT SWITCH
O	OXYGEN OUTLET
V	VACUUM OUTLET
A	MED AIR OUTLET
N	NITROUS OXIDE OUTLET
BS	BOTTLE SLIDE
	TELEPHONE / DATA OUTLET
W	WALL TELEPHONE OUTLET
NC	NURSE CALL

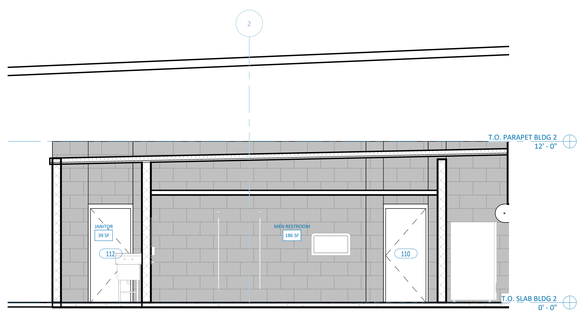
CASEWORK LEGEND

B	BASE
DB	DRAWER BASE
TB	TRASH BASE
SB	SINK BASE
TM	TALL MICROWAVE



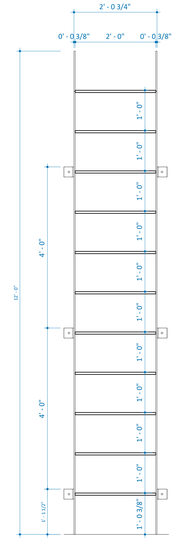
3 TRANSFER CENTER BLDG SECTION B1

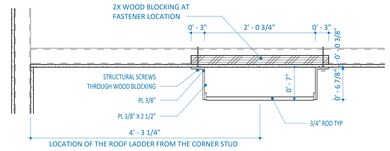
1/4" = 1'-0"



4 TRANSFER CENTER BLDG SECTION - A1

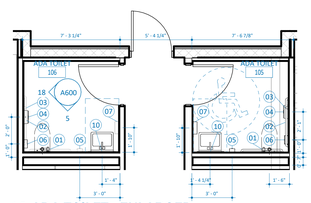
1/4" = 1'-0"





17 JANITOR LADDER PLAN

1" = 1'-0"

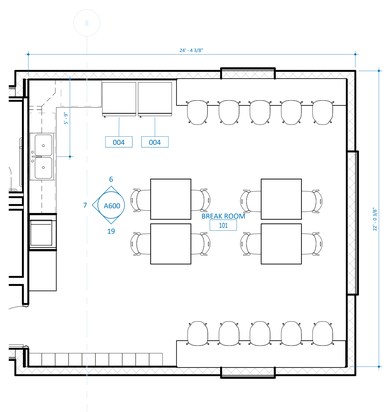


12 PUBLIC RESTROOM - ENLARGED

1/4" = 1'-0"

10 ADA TOILET - ENLARGED

1/4" = 1'-0"

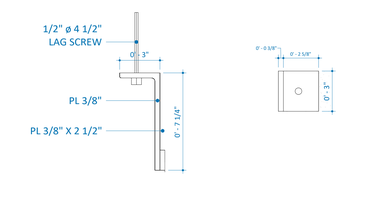


11 BREAK ROOM - ENLARGED

1/4" = 1'-0"

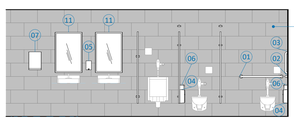
14 JANITOR LADDER

3/4" = 1'-0"

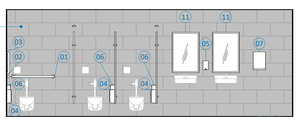


15 JANITOR LADDER PLATE DETAIL

3" = 1'-0"



EXPOSED CMU PAINTED WITH PT-2 - SHERWIN WILLIAMS - SATIN FINISH QUIETUDE SW6212 (ACCENT).



8 MEN RESTROOM ELEV.

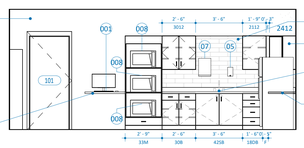
1/4" = 1'-0"

9 WOMEN RESTROOM ELEV.

1/4" = 1'-0"

PT-2 - SHERWIN WILLIAMS - SATIN FINISH QUIETUDE SW6212 (ACCENT).

25" DEEP SOLID SURFACE (SSM2) MATERIAL W/ 4" BACKSPLASH - WORK SURFACE SUPPORT @ 2'-10" MAX.

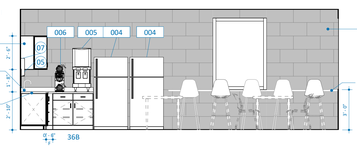


WT2 - 23 FULL ROWS, 1/8" GROUT LINE (GT2) - ALIGN GROUT LINE WITH CENTER OF FAUCET - BRUSHED STAINLESS STEEL L-SHAPED TILE TRIM ON UNFINISHED EDGES.

ALL BASE AND WALL CABINETS, PL2

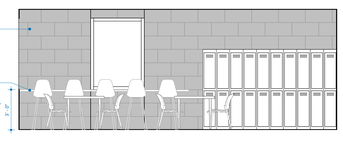
42" STAINLESS STEEL DOUBLE BOWL DROP-IN SINK.

25" DEEP SOLID SURFACE (SSM2) MATERIAL W/ 4" BACKSPLASH.



EXPOSED CMU PAINTED WITH PT-2 - SHERWIN WILLIAMS - SATIN FINISH QUIETUDE SW6212 (ACCENT).

24" DEEP PARTICLE BOARD COUNTER TOP WITH PLASTIC LAMINATE (PL3) - WORK SURFACE SUPPORT @3'00" MAX.



7 BREAKROOM - W. ELEVATION

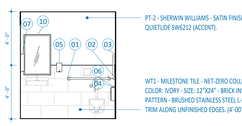
1/4" = 1'-0"

6 BREAKROOM - N. ELEVATION

1/4" = 1'-0"

19 BREAKROOM - S. ELEVATION

1/4" = 1'-0"



PT-2 - SHERWIN WILLIAMS - SATIN FINISH QUIETUDE SW6212 (ACCENT).

WT1 - MILESTONE TILE - NET-ZERO COLLECTION - COLOR: IVORY - SIZE: 12"X24" - BRICK INSTALLATION PATTERN - BRUSHED STAINLESS STEEL L-SHAPE TILE TRIM ALONG UNFINISHED EDGES. (4'-00" HEIGTH)

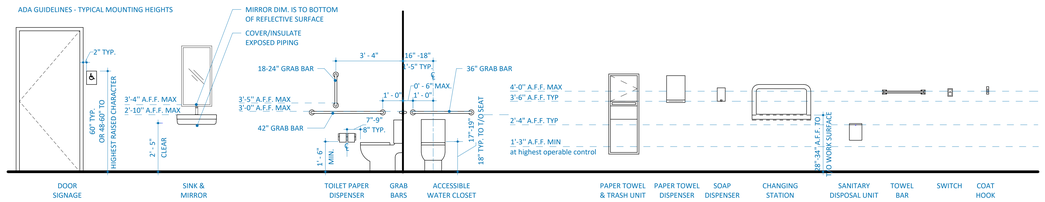


5 ADA TOILET - ELEVATION A

1/4" = 1'-0"

18 ADA TOILET ELEV. B

1/4" = 1'-0"



13 TYPICAL ADA DETAILS & EQUIPMENT MOUNTING HEIGHTS

3/8" = 1'-0"

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Design and Construction Administration Division
ESCAMBIA COUNTY, FL
100 E. BLOUNT ST. PENSACOLA, FL 32501

Revisions

PROJECT NO. 2613
STATUS BID PACKAGE #2 - NOT FOR CONSTRUCTION
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DRAWN BY Author

LARGE SCALE PLANS **A600**

EXTERIOR DOOR AND FRAME SCHEDULE

MARK	DOOR					GLAZING	FRAME					FIRE RATING LABEL	NOTES	MARK
	SIZE			TYPE	MATL		DETAIL			TYPE	MATL			
	WIDTH	HEIGHT	THICKNESS				HEAD	JAMB	SILL					
100A	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM		4/A900	3/A900		FT2	HM	-	CR; POLYURETHANE INSULATED STEEL DOOR	100A
100C	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM		4/A900	3/A900		FT2	HM	-	CR; POLYURETHANE INSULATED STEEL DOOR	100C
110	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM		4/A900	5/A900		FT2	HM	-	ELECTRIC STRIKE LOCK;CR	110
111	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM		4/A900	5/A900		FT2	HM	-	ELECTRIC STRIKE LOCK;CR	111
112	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM		4/A900	5/A900		FT2	HM	-	CR; POLYURETHANE INSULATED STEEL DOOR	112
113	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM		4/A900	5/A900		FT2	HM	-	CR; POLYURETHANE INSULATED STEEL DOOR	113
114	16' - 0"	7' - 4"	0' - 0 3/4"	OHD	STL			2/A900					NON-INSULATED OVERHEAD COILING DOOR	114

INTERIOR DOOR AND FRAME SCHEDULE

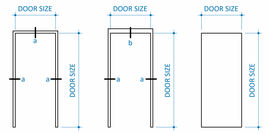
MARK	DOOR					GLAZING	FRAME					FIRE RATING LABEL	NOTES	MARK
	SIZE			TYPE	MATL		DETAIL			TYPE	MATL			
	WIDTH	HEIGHT	THICKNESS				HEAD	JAMB	SILL					
101	3' - 0"	7' - 0"	0' - 1 3/4"	HG	HM	GL4		1/A900		FT1	HM	-		101
102	3' - 0"	7' - 0"	0' - 1 3/4"	HG	HM	GL4		1/A900		FT1	HM	-		102
103	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM			1/A900		FT1	HM	-		103
104	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM			1/A900		FT1	HM	-		104
105	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM			1/A900		FT1	HM	-		105
106	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM			1/A900		FT1	HM	-		106
107	3' - 0"	7' - 0"	0' - 1 3/4"	F	HM			1/A900		FT1	HM	-		107
109	3' - 0"	7' - 0"	0' - 1 3/4"	HG	HM	GL4		1/A900		FT1	HM	-		109

ABBREVIATIONS

HM	HOLLOW METAL
F	FLUSH

GENERAL DOOR SCHEDULE NOTES

1. SEE A115 FOR FINISHES
2. SEE X300 FOR EXTERIOR ELEVATIONS



FT1 — HOLLOW METAL FRAME

FT2 — HOLLOW METAL FRAME

F — FLUSH

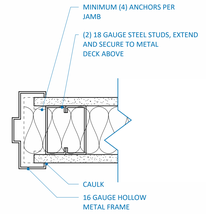
DOOR FRAME & TYPE LEGEND



a — HOLLOW METAL FRAME SECTION

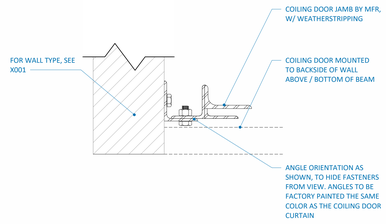
b — HOLLOW METAL FRAME SECTION

HOLLOW METAL FRAME SECTION



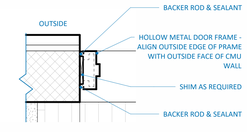
1 DETAIL - JAMB @ FT1

3" = 1'-0"



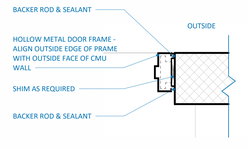
2 DETAIL - JAMB @ OVERHEAD COILING DOOR

3" = 1'-0"



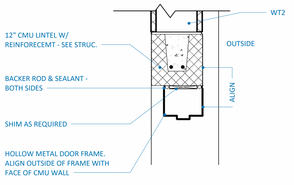
3 TYP DOOR DETAIL - JAMB AT WT2

1 1/2" = 1'-0"



5 TYP DOOR DETAIL - JAMB AT WT1

1 1/2" = 1'-0"



4 TYP DOOR DETAIL - HEAD AT WT2

1 1/2" = 1'-0"

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EXTERIOR AND INTERIOR DOOR SCHEDULE AND ELEVATIONS A900

GENERAL PLAN SYMBOLS

1	PLAN REVISION NUMBER
A-1 / F	DETAIL NUMBER ON SHEET SHEET NUMBER WHERE DETAIL IS PLACED
X	KEYNOTE SYMBOL
	CONTINUATION SYMBOL
	POINT WHERE NEW CONNECTS TO EXISTING
Room Name / Number	ROOM NAME / NUMBER
	AREA BEING DEMOLISHED
	AREA NOT IN CONTRACT
MARK	SCHEDULED EQUIPMENT (UNDERLINED)
MARK	NONSCHEDULED EQUIPMENT
(E) MARK	EXISTING EQUIPMENT - HALFTONE - (E) PREFIX
(R) MARK	EXISTING RELOCATED EQUIPMENT - (R) PREFIX

ABBREVIATIONS

▲T	TEMPERATURE DIFFERENCE
Ø	ROUND
ABV	ABOVE
AC	AIR CONDITIONING
AD	AREA DRAIN
ADD	ADDENDUM
A/E	ARCHITECT / ENGINEER
AFF	ABOVE FINISHED FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
ALT	ALTERNATE
AP	ACCESS PANEL
ARCH	ARCHITECT/ARCHITECTURAL
BAS	BUILDING AUTOMATION SYSTEM
BFF	BELOW FINISHED FLOOR
BHP	BRAKE HORSEPOWER
BLW	BELOW
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS PER HOUR
CAP	CAPACITY
CB	CATCH BASIN
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CFH	CUBIC FEET PER HOUR
CLG	CEILING
CM	CONSTRUCTION MANAGER
CO	CLEAN OUT
CV	CONTROL VALVE
CW	COLD WATER
D	DEGREE
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROLS
DIA	DIAMETER
DN	DOWN
DW	DEIONIZED WATER
EAT	ENTERING AIR TEMPERATURE
E.C.	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EA	EXHAUST AIR
EG	EXHAUST GRILLE
EXIST	EXISTING
F	DEGREES FAHRENHEIT
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FL	FLOOR
FO	FUEL OIL
FOV	FUEL OIL VENT
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FS	FLOOR SINK
FT	FOOT/FEET
FTR	FIN TUBE RADIATION
GAL	GALLON
GF	GAS-FIRED
G.C.	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
HB	HOSE BIBB
HP	HORSE POWER
HP	HIGH PRESSURE
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HYD	HYDRANT
ID	INDIRECT DRAIN
IN	INCH
I.E.	INVERT ELEVATION
K.E.C.	KITCHEN EQUIPMENT CONTRACTOR
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LB/HR	POUNDS PER HOUR
LD	LINEAR DIFFUSER
LP	LOW PRESSURE
LP	LIQUEFIED PETROLEUM GAS
LVR	LOUVER
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MAX	MAXIMUM
MBH	ONE THOUSAND BTU PER HOUR
M.C.	MECHANICAL CONTRACTOR
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MP	MEDIUM PRESSURE
MTR	MOTOR
MUA	MAKE-UP/AIR
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NG	NATURAL GAS
NO	NUMBER
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O	OXYGEN
OA	OUTSIDE AIR
ORD	OVERFLOW ROOF DRAIN
PD	PRESSURE DROP
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PWR	POWER
R	DUCT RISER
RA	RETURN AIR
RCP	RADIANT CEILING PANEL
RD	ROOF DRAIN
REC	REDUCER
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RLA	RELIEF AIR
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SAN	SANITARY
SD	SMOKE DAMPER
SF	SQUARE FOOT
SG	SUPPLY GRILLE
SM	SURFACE MOUNT
SP	STATIC PRESSURE
SR	SUPPLY REGISTER
STM	STEAM
T	THERMOSTAT
T.C.	TEMP CONTROLS CONTRACTOR
TD	TEMPERATURE DROP
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TYP	TYPICAL
UG	UNDERGROUND
VAC	VACUUM
V	VENT
VAV	VARIABLE AIR VOLUME
VENT	VENTILATION
VTR	VENT THROUGH ROOF
W	WASTE
WB	WET BULB
WCO	WALL CLEAN OUT
WH	WALL HYDRANT
YCO	YARD CLEANOUT

EQUIPMENT ABBREVIATIONS

AC AIR CONDITIONING UNIT	ERV ENERGY RECOVERY VENTILATOR
ACCU AIR COOLING CONDENSING UNIT	EWH ELECTRIC WATER HEATER
AHU AIR HANDLING UNIT	FCU FAN COIL UNIT
AS AIR SEPARATOR	FP FIRE PUMP
B BOILER	GI GREASE INTERCEPTOR
BCU BLOWER COIL UNIT	GRV GRAVITY ROOF VENTILATOR
CH CHILLER	HP HEAT PUMP
CT COOLING TOWER	HWP HEATING WATER PUMP
CUH CABINET UNIT HEATER	HRU HEAT RECOVERY UNIT
CHWP CHILLED WATER PUMP	P PUMP
CP CONDENSER PUMP	PRV POWER ROOF VENTILATOR
DBP DOMESTIC WATER BOOSTER PUMP	RF RETURN FAN
DC DUCT MOUNTED COIL	RHC REHEAT COIL
CP DOMESTIC WATER CIRCULATING PUMP	RTU ROOFTOP UNIT
EF EXHAUST FAN	SP SUMP PUMP
EDC ELECTRIC DUCT COIL	UH UNIT HEATER
ET EXPANSION TANK	WH WATER HEATER

* NOTE *

ALL GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL SUBSEQUENT SHEETS IN SHEET LIST. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

PLUMBING PIPING

—Z—	NOMINAL PIPE SIZE
—"Z"—	EXISTING PIPE TO REMAIN
	PIPE TO BE DEMOLISHED
	COLD WATER TYPE
—CW—	COLD WATER
—SCW—	SOFTENED COLD WATER
	HOT WATER TYPE
—HW—	HOT WATER
—HW 140°—	HOT WATER 140°
—SHW—	SOFTENED HOT WATER
	HOT WATER RECIRC TYPE
—HWC—	HOT WATER RECIRC
—HWC 140°—	HOT WATER RECIRC 140°
—SHWC—	SOFTENED HOT WATER RECIRC
—DI—	DEIONIZED WATER
— DIR —	DEIONIZED WATER RETURN
—RO—	REVERSE OSMOSIS
— ROR —	REVERSE OSMOSIS RETURN
—WS—	WATER SERVICE
—ST—	STORM
—STO—	STORM OVERFLOW
—SAN—	SANITARY
—PD—	PUMPED DISCHARGE
-/-	VENT
—AW—	ACID WASTE
— AV —	ACID VENT
—GSAN—	GREASE SANITARY
— GV —	GREASE VENT
—OW—	OIL WASTE
— OV —	OIL VENT
—CA—	COMPRESSED AIR

PIPE FITTINGS

- PIPE RISE / DROP
- PIPE ELBOW
- PIPE TEE HORIZONTAL / RISER / DROP
- PIPE CAP / CLEANOUT / CONTINUATION
- P-TRAP

PIPE ACCESSORIES

- BALANCING VALVE
- BALL VALVE
- SOLENOID VALVE
- GATE VALVE
- GENERIC ISOLATION VALVE
- PRESSURE REDUCING VALVE
- UNION
- STRAINER
- WATER METER
- ANGLE VALVE
- BUTTERFLY VALVE
- PLUG VALVE
- INLINE PUMP
- HOSE BIBB/ HYDRANT
- PRESSURE GAUGE
- AIR VENT
- PRESSURE RELIEF
- BACKFLOW PREVENTER
- BACKFLOW PREVENTER

FIXTURE SYMBOLS

- FD FLOOR DRAIN (ROUND)
- FD FLOOR DRAIN (SQUARE)
- FCO FLOOR CLEANOUT
- FS FLOOR SINK
- CRD COMBINATION ROOF DRAIN
- RD ROOF DRAIN

GENERAL NOTES - PLUMBING

1. ALL PLUMBING WORK SHOULD BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION:
   - 2023 FLORIDA PLUMBING CODE
   - 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
   - 2023 FLORIDA BUILDING CODE, ENERGY CONSERVATION
   - LOCAL CODES, INCLUDING ALL AMENDMENTS AND ORDINANCES.
2. THESE DRAWINGS ARE DIAGRAMMATIC, NOT ALL PIPING, FITTINGS, OFFSETS, VALVES OR OTHER ACCESSORIES ARE SHOWN. THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL ANY/ALL NECESSARY PIPING, FITTINGS, VALVES, REGULATORS, GAUGES, HANGERS, INSULATION, EQUIPMENT, FIXTURES, ETC. REQUIRED FOR A COMPLETE FUNCTIONAL SYSTEM AS SHOWN ON PLUMBING PLANS AND AS OUTLINED IN SPECIFICATION INFORMATION UNLESS OTHERWISE NOTED.
3. PLUMBING CONTRACTOR SHOULD UTILIZE THESE PLANS AND PROVIDE RECORD DRAWING COMMENTARY REFLECTING ACTUAL INSTALLATION. PROVIDE ONE HARD-COPY SET TO ARCHITECT/ENGINEER.
4. PLUMBING CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL FEES AND PERMITS REQUIRED TO ACCOMPLISH THIS WORK.
5. PLUMBING CONTRACTOR SHOULD REVIEW ANTICIPATED MAN/MATERIAL LIFT EQUIPMENT WITH OWNER'S REPRESENTATIVE PRIOR TO UTILIZING FOR INSTALLATION. DAMAGED FLOORING RESULTING FROM UNAPPROVED EQUIPMENT WILL BE REPLACED AT THE PLUMBING CONTRACTOR'S EXPENSE.
6. REFER TO WRITTEN SPECIFICATIONS FOR EQUIPMENT AND MATERIAL RELATED TO THIS WORK.
7. COORDINATE SEQUENCE OF PLUMBING WORK CLOSELY WITH GENERAL CONTRACTOR/ CONSTRUCTION MANAGER AND OTHER TRADES TO AVOID CONFLICTS.
8. PLUMBING CONTRACTOR SHOULD TAKE PRECAUTIONS NECESSARY TO MINIMIZE CONSTRUCTION DEBRIS TRANSFER TO ADJACENT NON-WORK AREAS.
9. PRIOR TO COMMENCING WORK ON THIS PROJECT, VERIFY DEPTH, SIZE, LOCATION AND CONDITION OF ALL EXISTING UTILITIES IN FIELD. SHOULD CONDITIONS EXIST OTHER THAN THOSE INDICATED WHICH WOULD CAUSE THE DESIGN TO BE ALTERED, CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER IMMEDIATELY.
10. PLUMBING UTILITY CONNECTIONS SHALL EXTEND TO 5'-0" OUTSIDE OF THE BUILDING FOR CONNECTION BY THE SITE UTILITIES CONTRACTOR.
11. COORDINATE ALL BELOW FLOOR PLUMBING PIPING AND EQUIPMENT WITH STRUCTURAL PLANS.
12. COORDINATE INSTALLATION OF PLUMBING WORK WITH ALL OTHER TRADES SO AS TO AVOID UNNECESSARY DELAY OR INTERFERENCES. PLUMBING CONTRACTOR SHALL REVIEW ARCHITECTURAL AND EQUIPMENT SHEETS.
13. PLUMBING CONTRACTOR SHALL RUN ALL DOMESTIC WATER, WASTE AND VENT, AND NATURAL GAS AS HIGH AS POSSIBLE WITHIN THE CEILING / TRUSS SPACE. COORDINATE THE LOCATION OF ALL PIPING WITH THE STRUCTURAL PLANS, ARCHITECTURAL CEILING HEIGHTS, AND OTHER TRADES TO AVOID CONFLICTS. NOTIFY GENERAL CONTRACTOR/ CONSTRUCTION MANAGER AS SOON AS ANY CONFLICTS ARE DETECTED. FAILURE TO PROPERLY COORDINATE PIPE ROUTING WITH OTHER TRADES WILL BE REQUIRED TO BE MOVED AT THE PLUMBING CONTRACTOR'S EXPENSE.
14. PLUMBING CONTRACTOR SHALL COORDINATE PIPE ROUTING TO AVOID ROOF HATCHES, SKYLIGHTS, EQUIPMENT SERVICE ACCESS AND ACCESS PANELS.
15. PLUMBING CONTRACTOR SHALL FIELD VERIFY MEANS AND METHODS REQUIRED TO BRING PLUMBING FIXTURES, EQUIPMENT AND MATERIAL INTO THE BUILDING. COORDINATE STORAGE AND LAY DOWN AREAS WITH THE GENERAL CONTRACTOR/ CONSTRUCTION MANAGER PRIOR TO BRINGING MATERIALS TO THE PROJECT SITE.
16. REFERENCE ARCHITECTURAL DRAWINGS FOR CODE-RATED WALLS, FLOORS, AND CEILINGS. PROVIDE UL RATED, FM APPROVED FIRE STOP AT ALL NEW PLUMBING PIPE PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS AND CEILINGS.
17. ALL DOMESTIC WATER AND VENT PIPING DROPS TO PLUMBING FIXTURES SHALL BE CONCEALED IN THE WALL UNLESS OTHERWISE NOTED.
18. FLUSH NEW WATER PIPING AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO CONNECTING ANY FIXTURES OR EQUIPMENT.
19. PROVIDE WATER HAMMER ARRESTORS SERVING QUICK-CLOSING VALVES IN EACH BRANCH OR AT APPLIANCE OR FIXTURE.
20. ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILING SHALL BE INSTALLED BEHIND AN ACCESS PANEL. REFERENCE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS, AND OTHER CEILING MOUNTED ITEMS.
21. INSTALL SHUT-OFF VALVES ON ALL HOT & COLD WATER LINES TO FIXTURE OR APPLIANCE. ALL EXPOSED WATER AND WASTE LINES TO BE CHROME PLATED.
22. ALL VALVES, UNIONS, ETC. SHALL BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.
23. ALL PLUMBING PIPING SHALL BE SUPPORTED. SEE SPECIFICATIONS.
24. FURNISH & INSTALL ALL BACKFLOW PROTECTION DEVICES REQUIRED BY AUTHORITY HAVING JURISDICTION. BACKFLOW DEVICES REQUIRING TESTING SHALL BE INSTALLED NO HIGHER THAN 5'-0" ABOVE FINISHED FLOOR.
25. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR TESTS AND CERTIFICATION OF REDUCED PRESSURE BACKFLOW DEVICE PER AUTHORITY HAVING JURISDICTION. BACKFLOW CERTIFICATION SHALL BE POSTED ON BACKFLOW DEVICE ONCE TESTING HAS BEEN COMPLETED.
26. ALL WATER LINES SHALL BE RUN OVERHEAD UNLESS OTHERWISE NOTED.
27. PROVIDE ESCUTCHEON PLATES AND SILICONE SEALANT AT ALL UTILITY PENETRATIONS INTO WALLS, CEILINGS, AND FLOORS. DO NOT USE CAULKS OR EXPANDING FOAMS FOR SEALANT.
28. COORDINATE FLOOR DRAIN AND CLEANOUT ROUGH-IN WITH SELECTED FLOOR COVERING SYSTEM.
29. DO NOT UTILIZE COMBINATION WASTE AND VENT SYSTEM FOR SINKS AND LAVATORIES ROUGHED IN ABOVE FLOOR.
30. NOTIFY LOCAL INSPECTOR PRIOR TO BACKFILL OF ALL UNDER SLAB PLUMBING. ANY WORK COVERED PRIOR TO INSPECTION SHALL BE UNCOVERED AT THE INSPECTOR'S REQUEST.
31. FILL/SEAL ALL DRAIN TRAPS WITH MINERAL OIL.
32. DO NOT USE PVC MATERIALS IN PLENUM AREAS USED AS RETURN AIR PATHS. REFERENCE ARCHITECTURAL CEILING PLAN AND MECHANICAL PLANS.
33. VERIFY THE LOCATION AND INVERT ELEVATION OF THE SANITARY SEWER ON THE SITE PLAN AND REVISE THE SEWER SYSTEM AS REQUIRED.
34. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, GRAB BARS, ETC. AND THE OWNERS REPRESENTATIVE PRIOR TO ANY INSTALLATION.
35. ALL PLUMBING FIXTURE VENTS SHALL TERMINATE A MINIMUM OF 12 INCHES AND A MAXIMUM OF 24 INCHES FROM ANY VERTICAL SURFACE AND A MINIMUM OF *10'-0"* FROM ANY OUTSIDE AIR INTAKE OR OPERABLE DOOR, WINDOW, ETC., SHIFT VENT THRU ROOF AS REQUIRED.
36. ALL FLOOR SINKS AND FLOOR DRAINS IN TRAFFIC AREAS SHALL BE INSTALLED FLUSH TO FLOOR SURFACE.
37. PROVIDE AIR GAPS FOR INDIRECT DRAINS AS REQUIRED BY CODE. AIR GAP SHALL BE NOT LESS THAN 1".
38. DO NOT ROUTE PIPING DIRECTLY ABOVE OR BELOW ELECTRICAL PANELS, INCLUDING PANEL SERVICE CLEARANCES.
39. DO NOT SUSPEND PIPING FROM OTHER PIPING, DUCTWORK OR CONDUIT. ALL PIPING SHALL BE SUPPORTED FROM BUILDING STRUCTURE USING THE APPROPRIATE ATTACHMENTS.
40. PIPE SPACING SHOWN ON THE DRAWINGS IS FOR CLARITY ONLY. PIPING SHALL BE INSTALLED TO CONSERVE SPACE WHERE POSSIBLE.
41. REFER TO MECHANICAL SHEETS FOR PLUMBING CONNECTIONS TO MECHANICAL EQUIPMENT.
42. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL LOW VOLTAGE CABLING AND POWER WIRING/CONDUIT INDICATED THIS PLAN UNLESS SPECIFICALLY NOTED OTHERWISE. COORDINATE ALL WORK WITH ELECTRICAL CONTRACTOR PRIOR TO BID.
43. SEE PLUMBING FIXTURE SCHEDULE FOR BRANCH PIPING SIZES TO INDIVIDUAL FIXTURES. BRANCH PIPE SIZES SHALL MATCH SCHEDULE UNLESS OTHERWISE NOTED.
44. SOIL ON SITE IS CONTAMINATED AND CANNOT BE REMOVED FROM SITE. SEE CIVIL DRAWINGS FOR STOCKPILE LOCATION.

PLUMBING SHEET INDEX

PT000	PLUMBING COVER PAGE
PT100	PLUMBING UNDERFLOOR PLAN
PT101	PLUMBING FLOOR PLAN
PT500	PLUMBING DETAILS
PT600	PLUMBING SCHEDULES

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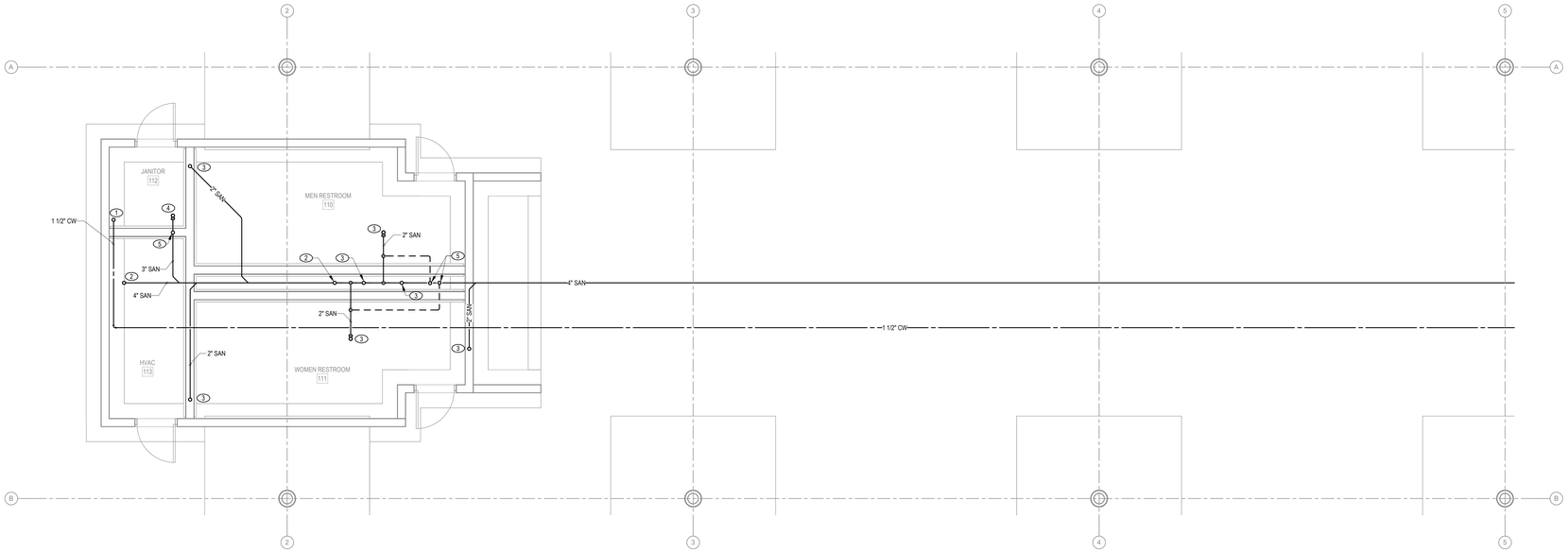
Revisions

PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
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PLUMBING COVER PAGE PT000

KEYED NOTES:

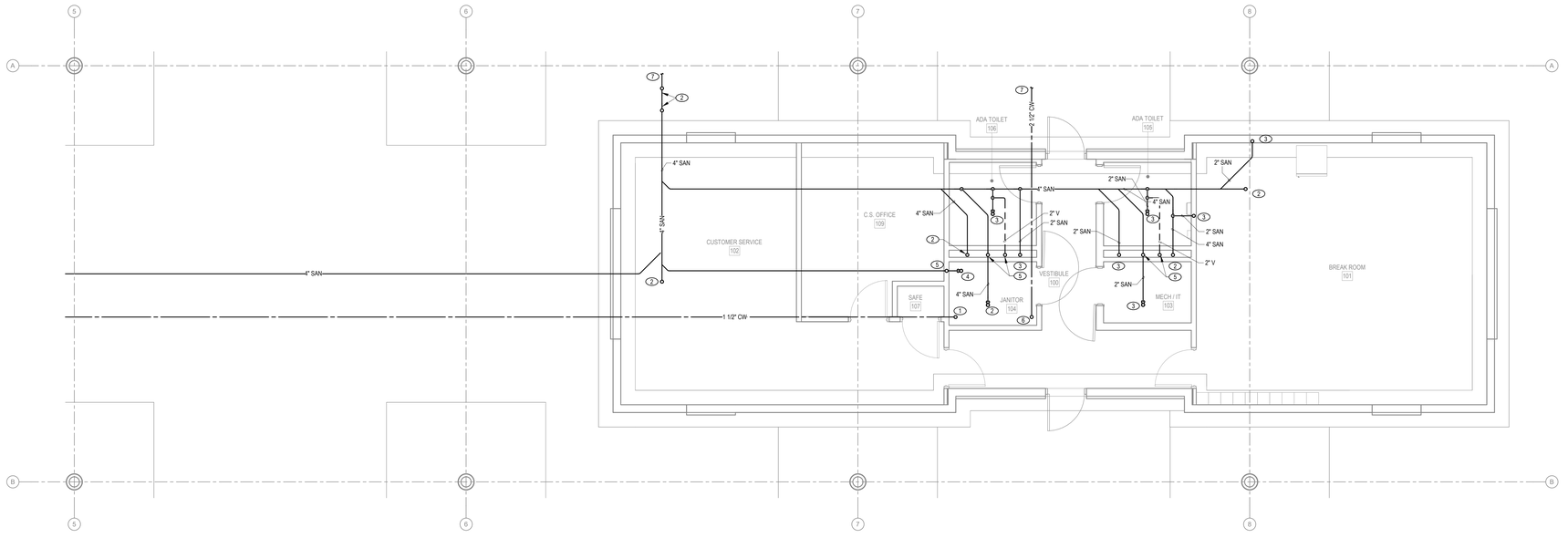
1. 1 1/2" CW UP.
2. 4" SAN UP.
3. 2" SAN UP.
4. 3" SAN UP.
5. 2" V UP.
6. 2 1/2" CW UP
7. SEE CIVIL PLAN FOR CONTINUATION



N

2 PLUMBING UNDERFLOOR PLAN

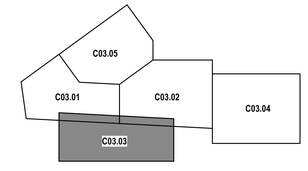
1/4" = 1'-0"



N

1 PLUMBING UNDERFLOOR PLAN

1/4" = 1'-0"



KEY MAP

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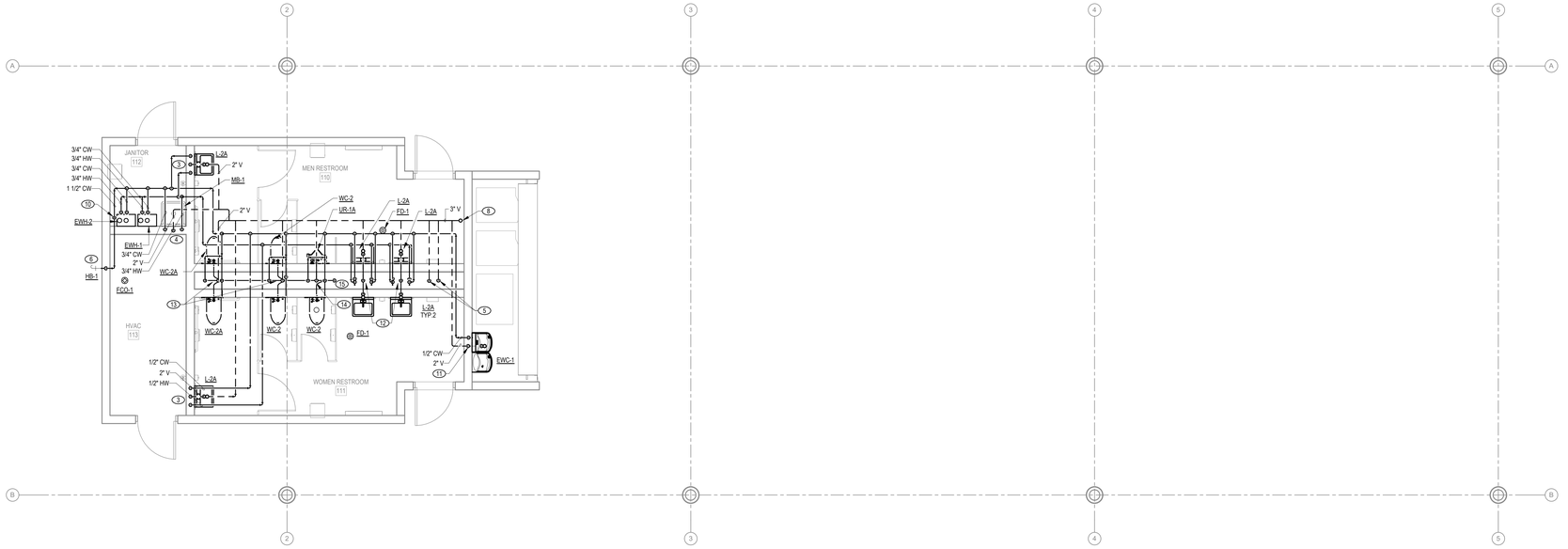
Revisions

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PLUMBING UNDERFLOOR PLAN **PT100**

KEYED NOTES:

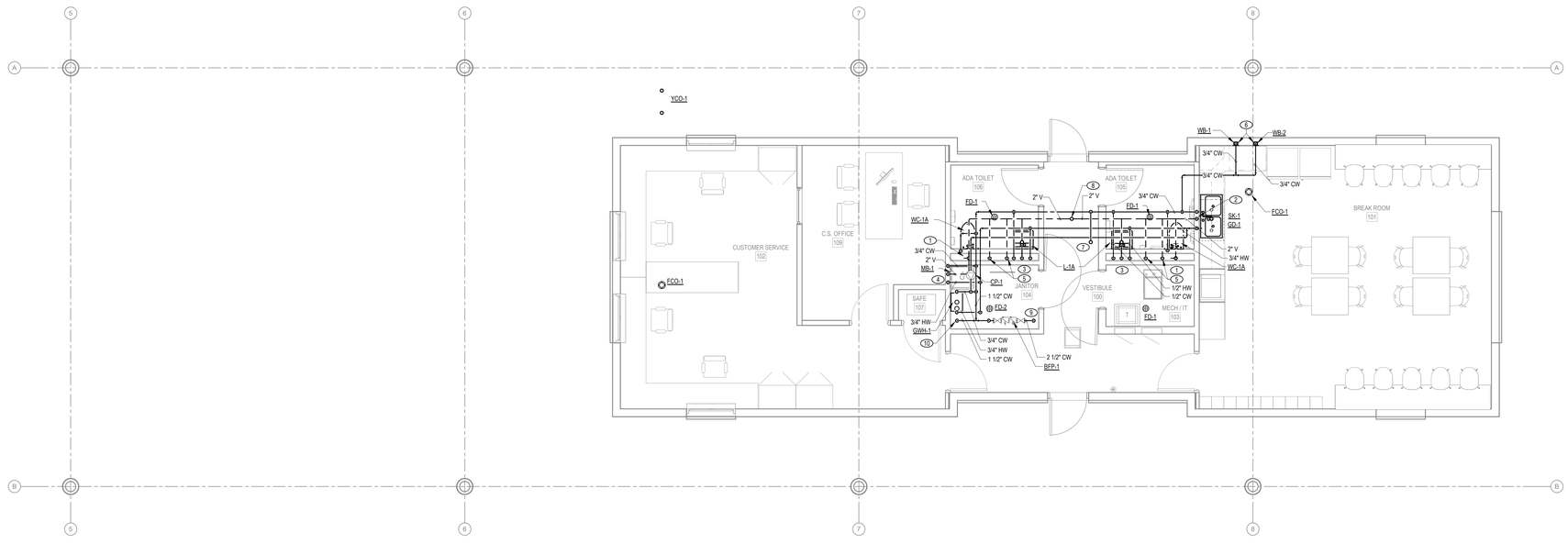
1. 4" SAN FROM BELOW, 1 1/4" CW DN, 2" V DN.
2. 2" SAN FROM BELOW, 3/4" CW DN, 3/4" HW DN, 2" V DN.
3. 2" SAN FROM BELOW, 1/2" CW DN, 1/2" HW DN, 2" V DN.
4. 3" SAN FROM BELOW, 3/4" CW DN, 3/4" HW DN, 2" V DN.
5. 2" V DN.
6. 3/4" CW DN.
7. 3/4" CW UP TO HB-2.
8. 4" V THROUGH ROOF.
9. 2 1/2" CW DN.
10. 1 1/2" CW DN.
11. 2" SAN FROM BELOW, 1/2" CW DN, 2" V DN.
12. 2" SAN FROM BELOW, 1/2" CW DN (2), 1/2" HW DN (2), 2" V DN.
13. 1 1/4" CW DN (2), 2" V DN.
14. 1 1/4" CW DN, 3/4" CW DN, 2" V DN.
15. 4" SAN FROM BELOW.



N

1 PLUMBING FLOOR PLAN

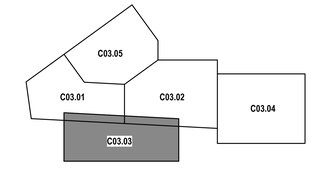
1/4" = 1'-0"



N

2 PLUMBING FLOOR PLAN

1/4" = 1'-0"



KEY MAP

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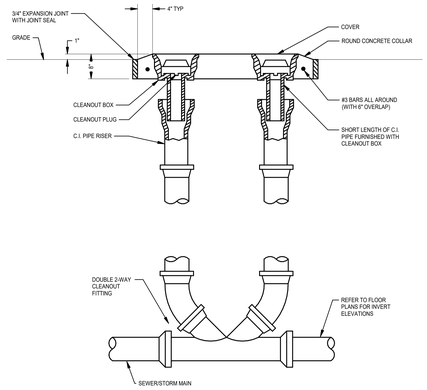
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PROJECT NO.	2613
STATUS	BID PACKAGE 2 - NOT FOR CONSTRUCTION
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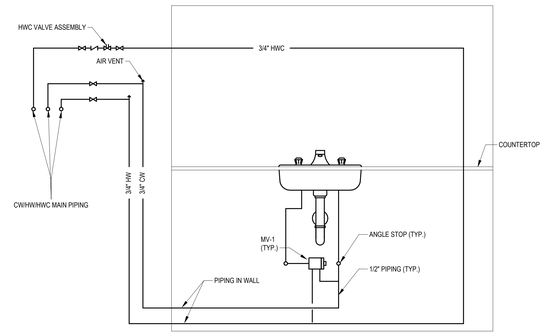
PLUMBING FLOOR PLAN **PT101**



6 2-WAY YARD CLEANOUT
N.T.S.

GENERAL NOTES:

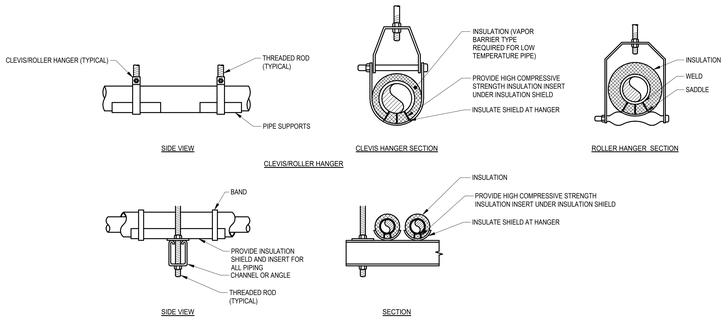
1. REFER TO PIPING APPLICATION SCHEDULE AND SPECIFICATIONS FOR ALLOWED JOINT TYPES.



3 LAVATORY HOT WATER RECIRCULATING PIPING
N.T.S.

GENERAL NOTES:

1. HOT WATER DEAD LEG LENGTH FOR EACH FIXTURE SHALL NOT EXCEED 2'.

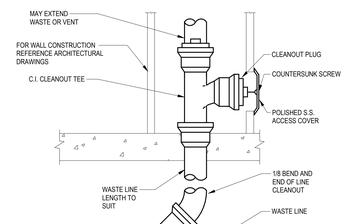


MAXIMUM PIPE/TUBING SUPPORT SPACING, FEET																			
NOM. SIZE	THRU 3/4"	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
STEEL PIPE - STD. WT.	7 FT	9	11	12	13	15	16	17	20	20	22	23	24	25	25	25	25	25
COPPER TUBING	5 FT	6	7	8	8	10	10	12	15	15	15	-	-	-	-	-	-	-
SCH. 40 PVC, CPVC (73°F)	3 FT	4	4	5	6	6	6	8	9	9	10	11	12	-	-	-	-	-
SCH. 80 PVC, CPVC (73°F)	3 FT	4	4	5	6	6	7	8	10	10	11	12	13	-	-	-	-	-
SCH. 40 CPVC (140°F)	-	-	-	-	5	6	6	6	7	7	7	7	8	-	-	-	-	-
SCH. 80 CPVC (140°F)	-	-	-	-	6	6	7	7	8	8	9	9	10	-	-	-	-	-
SDR 11 HDPE PIPE (73°F)	-	-	-	-	-	-	7	8	10	10	11	13	14	15	16	17	18	19
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.																		

9 PIPE HANGERS
N.T.S.

GENERAL NOTES:

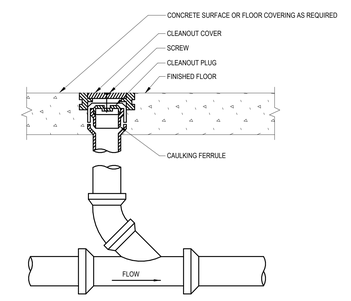
1. SEE SPECIFICATIONS FOR HANGER AND INSULATION REQUIREMENTS.



5 WALL CLEANOUT
N.T.S.

GENERAL NOTES:

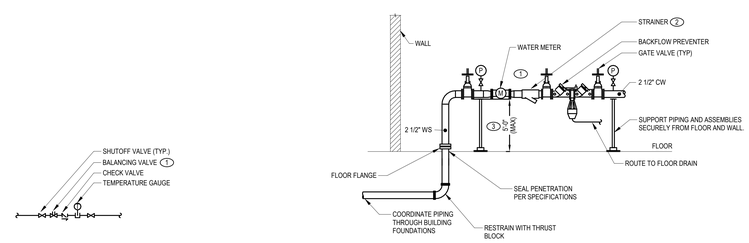
1. REFER TO PIPING APPLICATION SCHEDULE AND SPECIFICATIONS FOR ALLOWED JOINT TYPES.
2. INSTALL WALL CLEANOUTS IN ALL LOCATIONS SHOWN ON THE FLOOR PLANS.
3. INSTALL WALL CLEANOUTS IN DRAIN LINES AND RISERS SERVING ALL OF THE FOLLOWING PLUMBING FIXTURES:
   A. URINALS
   B. SINKS
4. COORDINATE ALL WALL CLEANOUT LOCATIONS AND ELEVATIONS WITH ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO ROUGH IN.



2 FLOOR CLEANOUT
N.T.S.

GENERAL NOTES:

1. REFER TO PIPING APPLICATION SCHEDULE AND SPECIFICATIONS FOR ALLOWED JOINT TYPES.
2. INSTALL FLOOR CLEANOUTS IN ALL OF THE FOLLOWING LOCATIONS:
   A. ALL LOCATIONS SHOWN ON THE FLOOR PLANS
   B. IN ALL HORIZONTAL BRANCHES THAT ARE GREATER THAN 5'-0" IN LENGTH
   C. EVERY 100' OF DEVELOPED PIPING LENGTH
   D. EACH AGGREGATE HORIZONTAL CHANGE IN DIRECTION EXCEEDING 135°.



7 WATER SERVICE ENTRANCE - WM, BFP
N.T.S.

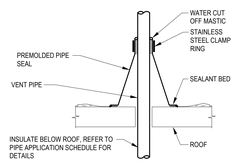
KEYED NOTES:

1. VERIFY METER SIZE, QUANTITY, & INSTALLATION REQUIREMENTS WITH UTILITY. PROVIDE & INSTALL REMOTE METERING EQUIPMENT WHEN REQUIRED. MAINTAIN UPSTREAM AND DOWNSTREAM PIPE DIAMETERS AS REQUIRED BY METER MANUFACTURER.
2. STRAINER MAY BE SUPPLIED INTEGRAL TO BACKFLOW PREVENTER ASSEMBLY.
3. INSTALL THE BACKFLOW PREVENTER ASSEMBLY AT A MINIMUM DISTANCE FROM THE FLOOR OF 12".

8 HOT WATER CIRC VALVE ASSEMBLY
N.T.S.

KEYED NOTES:

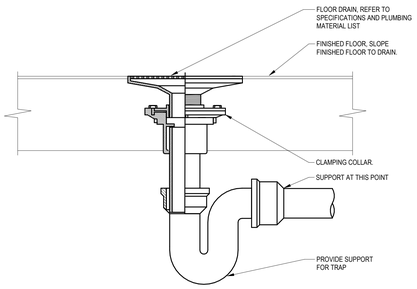
1. ADJUST BALANCING VALVE AS NECESSARY TO MAINTAIN A RECIRCULATION WATER TEMPERATURE OF 140°F. BALANCING CONTRACTOR TO PROVIDE A REPORT SHOWING BALANCING VALVE INSTALLATION LOCATIONS, VALVE SETPOINTS, & RECIRCULATION WATER TEMPERATURE AS PART OF THE FINAL TESTING & BALANCING REPORT.



4 VENT THROUGH ROOF
N.T.S.

GENERAL NOTES:

1. PIPE SEAL SHALL BE COMPATIBLE WITH ROOFING SYSTEM.
2. THE MINIMUM PIPE SIZE FOR ALL ROOF PENETRATIONS SHALL BE 4"
3. ALL VENTS SHALL BE A MINIMUM OF 10' FROM ALL OUTSIDE AIR INTAKES. FIELD COORDINATE WITH ALL TRADES PRIOR TO ROUGH IN.



1 FLOOR DRAIN - ON GRADE
N.T.S.

GENERAL NOTES:

1. REFER TO PLUMBING MATERIAL LIST FOR SPECIFIC DRAIN OPTIONS & ACCESSORIES.

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Revisions

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DRAWN BY ADG

PLUMBING DETAILS PT500

LAVATORIES AND SINK SCHEDULE

MARK	ADA	MANUFACTURER (NOTE 1)		DESCRIPTION			FIXTURE DIMENSIONS (INCHES)					ELECTRICAL CONNECTION		NOTES
							OVERALL		INSIDE BOWL					
		FIXTURE	TRIM	FIXTURE	TRIM	ACCESSORIES	SIDE TO SIDE	FRONT TO BACK	SIDE TO SIDE	FRONT TO BACK	DEPTH	VOLTAGE	PHASE	
L-1	L-1A	ZURN Z-5340 SERIES	SLOAN SF-2300 SERIES	WALL MOUNTED, WHITE VITREOUS CHINA, 4" CENTER FAUCET HOLES. HOLES FOR CONCEALED ARM CARRIER.WALL SUPPORTED CONCEALED ARM CARRIER WITH PLATE SET SECURELY WITHIN WALL. PROVIDE ALL REQUIRED ACCESSORIES FOR INSTALLATION.	SENSOR ACTIVATED MIXING FAUCET, DOUBLE HOLE 4" CENTERS WITH DECK PLATE, 4" CHROME PLATED, CONVENTIONAL SPOUT WITH LAMINAR FLOW OUTLET. SOLID BRASS SOLENOID WITH BUILT-IN FILTER. UNDERCOUNTER SOLID BRASS MECHANICAL MIXING VALVE (WYE PATTERN STYLE NOT ACCEPTABLE) WITH ADJUSTABLE TEMPERATURE LIMIT STOP AND INTEGRAL CHECK VALVES. BATTERY POWERED WITH WATERPROOF CONNECTORS AND CABLE. CONTROLS AND BATTERIES TO BE LOCATED IN WATERPROOF, VANDAL-RESISTANT ENCLOSURE MOUNTED BELOW LAVATORY. UL APPROVED TRANSFORMER, 120 VAC INPUT, WITH WATERPROOF CONNECTORS AND CABLE. MOUNT TRANSFORMER ABOVE CEILING OR IN ACCESSIBLE PIPE CHASE. MAXIMUM FLOW TO BE 0.5 GPM. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED.	QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLIES AND LOOSE KEY STOPS WITH CHROME PLATED SOFT COPPER RISERS OR FLEXIBLE BRAIDED STAINLESS STEEL RISERS AND CHROME ESCUTCHEONS. PERFORATED DRAIN GRATE, CHROME-PLATED P-TRAP, TAILPIECE AND ESCUTCHEON. PRE-MANUFACTURED, DURABLE, SINGLE-PIECE ENCLOSURE THAT CONCEALS PIPING, ELECTRONIC SENSOR CONNECTIONS, MIXING VALVES, TRAPS, INSTANTANEOUS WATER HEATERS, ETC. ENCLOSURE TO BE ADA-COMPLIANT. EQUAL TO TRUEBRO LAV SHIELD. PROVIDE WITH MV-1. INSTALL BELOW FIXTURE IN ACCESSIBLE LOCATION.	20	18 1/4	16 1/2	10 1/4	6 3/8	120	1	2
L-2	L-2A	SLOAN EHS-1000 SERIES	SLOAN SF-2300 SERIES	WALL MOUNTED, 14 GAUGE STAINLESS STEEL, 4" CENTER FAUCET HOLES. HOLES FOR CONCEALED ARM CARRIER.WALL SUPPORTED CONCEALED ARM CARRIER WITH PLATE SET SECURELY WITHIN WALL. PROVIDE ALL REQUIRED ACCESSORIES FOR INSTALLATION.	SENSOR ACTIVATED MIXING FAUCET, DOUBLE HOLE 4" CENTERS WITH DECK PLATE, 4" CHROME PLATED, CONVENTIONAL SPOUT WITH LAMINAR FLOW OUTLET. SOLID BRASS SOLENOID WITH BUILT-IN FILTER. UNDERCOUNTER SOLID BRASS MECHANICAL MIXING VALVE (WYE PATTERN STYLE NOT ACCEPTABLE) WITH ADJUSTABLE TEMPERATURE LIMIT STOP AND INTEGRAL CHECK VALVES. BATTERY POWERED WITH WATERPROOF CONNECTORS AND CABLE. CONTROLS AND BATTERIES TO BE LOCATED IN WATERPROOF, VANDAL-RESISTANT ENCLOSURE MOUNTED BELOW LAVATORY. UL APPROVED TRANSFORMER, 120 VAC INPUT, WITH WATERPROOF CONNECTORS AND CABLE. MOUNT TRANSFORMER ABOVE CEILING OR IN ACCESSIBLE PIPE CHASE. MAXIMUM FLOW TO BE 0.5 GPM. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED.	QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLIES AND LOOSE KEY STOPS WITH CHROME PLATED SOFT COPPER RISERS OR FLEXIBLE BRAIDED STAINLESS STEEL RISERS AND CHROME ESCUTCHEONS. PERFORATED DRAIN GRATE, CHROME-PLATED P-TRAP, TAILPIECE AND ESCUTCHEON. PRE-MANUFACTURED, DURABLE, SINGLE-PIECE ENCLOSURE THAT CONCEALS PIPING, ELECTRONIC SENSOR CONNECTIONS, MIXING VALVES, TRAPS, INSTANTANEOUS WATER HEATERS, ETC. ENCLOSURE TO BE ADA-COMPLIANT. EQUAL TO TRUEBRO LAV SHIELD. PROVIDE WITH MV-X. INSTALL BELOW FIXTURE IN ACCESSIBLE LOCATION.	19	16	14 1/2	9 1/2	5 1/4	120	1	2
SK-1	SK-1A	JUST DL SERIES	DELTA 440 DST	STAINLESS STEEL DROP-IN SINK, DOUBLE COMPARTMENT WITH FAUCET DECK, 18 GAUGE TYPE 304, SELF-RIMMING. COMPLETELY UNDERCOATED, 3-1/2" DIAMETER DRAIN OUTLET.	SINGLE HANDLE MIXING FAUCET FOR SINGLE HOLE SINK APPLICATIONS. SWIVEL SPOUT WITH 9" REACH & INTEGRAL ANTI-SIPHON DEVICE. HANDLE TO HAVE CERAMIC CARTRIDGE CONTROL MECHANISM & RED/BLUE TEMPERATURE INDICATORS. DECK MOUNTED SPRAY ATTACHMENT, 45" LONG SPRAY HOSE. MAXIMUM FLOW TO BE 1.5 GPM. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED.	REMOVABLE STAINLESS STEEL BASKET STRAINER AND NEOPRENE STOPPER. QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLIES AND LOOSE KEY STOPS WITH CHROME PLATED SOFT COPPER RISERS OR FLEXIBLE BRAIDED STAINLESS STEEL RISERS AND CHROME ESCUTCHEONS. CHROME-PLATED P-TRAP AND TAILPIECE AND ESCUTCHEON. PROVIDE WITH WALL CLEANOUT WCO-1 BELOW SINK.	43	22	19	16	7 5/8	-	-	3

NOTES:
1. SEE SPECIFICATIONS FOR LIST OF ACCEPTABLE MANUFACTURERS AND INSTALLATION REQUIREMENTS.
2. HARDWIRED DISCONNECT BY E.C.
3. VERIFY SINK DIMENSIONS WITH CASEWORK PRIOR TO ORDERING.

PIPING APPLICATION SCHEDULE (PLUMBING)

SYSTEM (NOTE 1)	LOCATION	DESIGN WORKING PRESSURE (PSI)	MATERIAL	JOINTS	USAGE SIZE RANGE	INSULATION APPLICATION		NOTES
						THICKNESS (IN.)	TYPE (NOTES 2, 3)	
DOMESTIC COLD WATER	ABOVE GRADE	125	TYPE L COPPER	SOLDER OR MECHANICAL PRESS CONNECTION	1-1/4" OR LESS	1/2"	ELASTOMERIC FOAM OR FIBERGLASS	-
					1-1/2" & GREATER	1"		
			PEX	PEX EXPANSION	1-1/4" OR LESS	1/2"	ELASTOMERIC FOAM OR FIBERGLASS	7
					1-1/2" & GREATER	1"		
	BELOW GRADE	125	TYPE K COPPER	SOLDER	LESS THAN 3"	-	-	-
			DUCTILE IRON PRESSURE WATER PIPE	MECHANICAL OR PUSH-ON	3" & GREATER	-	-	6
DOMESTIC HOT WATER SUPPLY AND RECIRCULATING	ABOVE GRADE	125	TYPE L COPPER	SOLDER OR MECHANICAL PRESS CONNECTION	1-1/4" OR LESS	1"	ELASTOMERIC FOAM OR FIBERGLASS	-
					1-1/2" & GREATER	1-1/2"		
			PEX	PEX EXPANSION	1-1/4" OR LESS	1"	ELASTOMERIC FOAM OR FIBERGLASS	7
					1-1/2" & GREATER	1-1/2"		
SANITARY/VENT	BELOW GRADE	N/A	CAST IRON AND/OR SCH 40 PVC	BELL & SPIGOT, NO HUB, OR SOLVENT	ALL	-	-	-
	ABOVE GRADE (NON PLENUM)	N/A	CAST IRON, DWV COPPER, AND/OR SCH 40 PVC	BELL & SPIGOT, NO HUB, SOLDER, OR SOLVENT	ALL	1/2"	FIBERGLASS	4
	ABOVE GRADE (RETURN AIR PLENUM)	N/A	CAST IRON, DWV COPPER	BELL & SPIGOT, NO HUB, SOLDER	ALL	1/2"	FIBERGLASS	4
PLUMBING EQUIPMENT DRAINS	ABOVE GRADE (RETURN AIR PLENUM)	N/A	DWV COPPER	SOLDER	ALL	1"	FIBERGLASS	8
	ABOVE GRADE (NON-PLENUM)	N/A	DWV COPPER, AND/OR SCH 40 PVC	SOLDER, AND/OR SOLVENT	ALL	1"	FIBERGLASS	8
WATER HEATER INTAKE AND FLUE	ABOVE GRADE	N/A	SCH 40 CPVC	SOLVENT	ALL	1/2"	ELASTOMERIC FOAM	9

NOTES:
1. REFER TO EACH PIPING SPECIFICATION FOR SPECIFIC PIPING REQUIREMENTS.
2. SEE SPECIFICATION SECTION 230719 FOR COMPLETE INSULATION AND JACKETING REQUIREMENTS. ALL INSULATION SHALL BE PLENUM RATED MEETING ASTM E84 WHERE INSTALLED IN A RETURN AIR PLENUM.
3. INSTALL RIGID CALCIUM SILICATE INSERTS AT ALL PIPING HANGERS.
4. INSULATE ALL PLUMBING VENT PIPE WITHIN 10' OF ROOF PENETRATION.
5. INSULATE ALL ROOF DRAIN BODIES EXPOSED WITHIN BUILDING.
6. PIPE SHALL BE CEMENT MORTAR LINED PER ANSI/AWWA STANDARDS. FITTINGS SHALL BE LONG RADIUS, 200 PSI RATED, CEMENT MORTAR LINED.
7. PEX PIPING SHALL ONLY BE ALLOWED FOR INDIVIDUAL FIXTURE DROPS. PEX PIPING SHALL NOT BE INSTALLED IN RATED WALLS.
8. INSULATION ONLY REQUIRED FOR COLD SERVICE PIPING. EQUIPMENT DRAIN PIPING LESS THAN 5' IN LENGTH NEED NOT BE INSULATED.
9. INSULATION REQUIRED FOR THE FIRST 10' OF PIPING FROM ROOF AND FOR HORIZONTAL PIPING INSTALLED FOR 7' IN A MECHANICAL ROOM.

WATER HEATER SCHEDULE (DOMESTIC)

MARK	MANUFACTURER	MODEL	FUEL	INPUT (MBH OR KW)	EFFICIENCY	GAS PRESSURE (IN. W.C.)	HW SETPOINT	WORKING PRESSURE	ASME RATED	ELECTRICAL				NOTES
			GAS OR ELECTRIC							HP	VOLT	PH	DISCONNECT BY	
GWH-1	RHEEM	RTGH-95	GAS	199.9	93%	-	140	150 PSI	NO	-	120	1	EC	1,2
EWH-1	RHEEM	RTEH100T	ELEC	10.0	-	-	120	150 PSI	NO	-	277	1	EC	-
EWH-2	RHEEM	RTEH100T	ELEC	10.0	-	-	120	150 PSI	NO	-	277	1	EC	-

NOTES:
1. PROVIDE CONCENTRIC VENT KIT.
2. PROVIDE CONDENSATE NEUTALIZATION KIT.

CIRCULATION PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	PUMP SPEED	PUMP CONSTRUCTION		FLOWRATE PER PUMP (GPM)	HEAD (FT.)	ELECTRICAL				NOTES
					HOUSING	IMPELLER			HP	VOLT	PHASE	DISCONNECT BY	
CP-1	GRUNDFOS	UP 15-29 SU	INLINE	SINGLE SPEED	BRONZE	COMPOSITE	2	8	1/8	115	1	E.C.	1, 2, 3

NOTES:
1. PROVIDE PUMP WITH IMMERSION TYPE AQUASTAT TEMPERATURE SENSOR FOR PUMP OPERATION. REFER TO WATER HEATER DETAIL FOR ADDITIONAL INSTALLATION REQUIREMENTS.
2. PROVIDE PUMP WITH FLANGED CONNECTIONS.
3. REFER TO DOMESTIC WATER PIPING DIAGRAM AND PUMP DETAILS FOR ADDITIONAL REQUIREMENTS.

PLUMBING CONNECTION SCHEDULE

FIXTURE	MINIMUM BRANCH SIZING				FIXTURE CONNECTION SIZE			
	CW	HW	SAN	VENT	CW	HW	SAN	NOTES
ELECTRIC WATER COOLER	1/2"	-	1 1/2"	1 1/4"	3/8"	-	1 1/4"	1, 2
FLOOR DRAIN/FLOOR SINK	-	-	2-3"	1 1/2"	-	-	2-3"	1
FLOOR DRAIN/FLOOR SINK	-	-	4"	2"	-	-	4"	
HOSE BIBB	3/4"	-	-	-	1/2"	-	-	
KITCHEN SINK	1/2"	1/2"	1 1/2"	1 1/4"	3/8"	3/8"	1 1/2"	1, 2
LAVATORY	1/2"	1/2"	1 1/4"	1 1/4"	3/8"	3/8"	1 1/4"	1, 2
MOP BASIN	3/4"	3/4"	3"	1 1/2"	1/2"	1/2"	3"	1
URINAL	1"	-	2"	1 1/2"	3/4"	-	2"	
ICE MAKER WALL BOX	1/2"	-	-	-	1/2"	-	-	
WATER CLOSET	1"	-	4"	2"	1"	-	4"	

NOTES:
1. ALL BELOW GRADE SANITARY AND VENT PIPING SHALL BE A MINIMUM OF 2".
2. ALL SUPPLY PIPING SERVING MORE THAN A SINGLE FIXTURE SHALL HAVE A MINIMUM PIPE SIZE OF 3/4".

PLUMBING MATERIAL LIST

FIXTURE	ADA (NOTE 1)	MANUFACTURER (NOTE 2)	DESCRIPTION	ELECTRICAL CONNECTION (VOLT/PHASE/AMPS)	NOTES
AG-1	-	WATTS 909AG SERIES	FIXTURE: INLINE AIR GAP FITTING. PRESSURE FIT INLET FOR USE WITH STANDPIPE. FEMALE THREAD TO STANDPIPE.	-	-
BFP-1	-	WATTS 957	FIXTURE: REDUCED PRESSURE BACKFLOW PREVENTER, (2) INDEPENDANT SPRING LOADED CHECKS WITH A DIFFERENTIAL PRESSURE RELIEF VALVE BETWEEN THE CHECK VALVES, 304 STAINLESS STEEL HOUSING AND SLEEVE WITH LEAD FREE CONSTRUCTION, THE WETTED SURFACE OF THE BACKFLOW PREVENTER SHALL CONTAIN LESS THAN 0.25% LEAD BY WEIGHT. UNITS SHALL INCLUDE FOUR TEST COCKS WITH SHUT-OFF VALVES AND SHALL BE BACKFLOW TESTED AT THE FACTORY. RATED FOR 175 PSI AT 33 DEGREES F. TO 140 DEGREES F. MAXIMUM PRESSURE DROP 15 PSI AT 10 PPS REGARDLESS OF SIZE. FLOW PRESSURE DROP CURVES SHALL BE SUBMITTED. ALL PARTS TO BE SERVICEABLE WITHOUT REMOVING UNIT FROM LINE. WITH RESILIENT SEATED GATE SHUTOFF VALVES ON BOTH SIDES OF UNIT AND AIR GAP DRAIN FITTING. PROVIDE AND INSTALL BRONZE OR EPOXY COATED STRAINER UPSTREAM FROM UNIT. APPROVED BY: USC FCCC & HR, AWWA C511-92, ASSE 1013, IAPMO AND SBCCI LISTED. UNIT SHALL BE SAME SIZE AS PIPE IF NO SIZE IS SHOWN ON THE DRAWING. ACCESSORIES: FLOOD PROTECTION SHUT DOWN VALVE. FULLY OPEN, ELECTRONICALLY ACTUATED GLOBE VALVE TO CLOSE BASED ON EXCESS FLOW THROUGH THE BFP DRAIN PIPE SYSTEM INCLUDES THE VALVE, CONTROL PANEL (120 V POWER CONNECTION) AND FLOW SENSOR. WATTS MODEL LFF113RFP OR PRIOR APPROVED EQUAL. PROVIDE WITH AIR GAP DRAIN FITTING EQUAL TO AG-1.	120V / SINGLE PHASE / 20 AMP	3
ET-1	-	THERM X-TROL ST-5	FIXTURE: EXPANSION TANK - WELDED STEEL CONSTRUCTION, WITH ASME STAMP, STAINLESS STEEL SYSTEM CONNECTION, HEAVY DUTY BUTYL DIAPHRAGM AND RIGID POLYPROPYLENE LINER MECHANICALLY BONDED TO TANK TO PROVIDE A 100% NON-CORROSIVE WATER RESERVOIR. DIAPHRAGM AND LINER SHALL BE APPROVED FOR USE IN POTABLE WATER SYSTEMS. ALL WETTED COMPONENTS OF FDA APPROVED MATERIALS. TANK SHALL HAVE A WORKING TEMPERATURE OF 200°F AND A WORKING PRESSURE OF 150 PSIG. MINIMUM TANK VOLUME TO BE 2 GALLONS. MINIMUM ACCEPTING VOLUME TO BE 0.9 GALLONS. FACTORY PRE-CHARGED TO 40 PSIG. PROVIDE STANDARD SCHRADER AIR VALVE FOR FIELD CHARGING. COORDINATE FIELD CHARGE PRESSURE WITH THE ACTUAL STATIC SYSTEM PRESSURE ADJACENT TO THE EXPANSION TANK CONNECTION.	-	-
EWC-1	EWC-1A	ELKAY EZH2O VR SERIES	FIXTURE: ELECTRIC WATER COOLER WITH INTEGRAL VANDAL RESISTANT BOTTLE FILLER WITH WATER FILTER - WALL HUNG, BI-LEVEL UNITS. PUSH BAR OR BUTTON OPERATING CONTROLS ON FRONT AND BOTH SIDES, BUILT-IN FLOW REGULATOR, DRAIN & TRAP ASSEMBLY. 18 GAUGE STAINLESS STEEL CABINETS AND NON-SPLASH BASINS. STREAM PROJECTORS WITH PROTECTIVE HOODS. 7.8 GPH OF WATER FROM 80 DEGREES F. TO 50 DEGREES F. AT 90 DEGREES F. ROOM TEMPERATURE. TANK TESTED TO 125 PSIG. ADJUSTABLE THERMOSTAT, MOUNTING ACCESSORIES, TANK DRAIN AND ANGLE STOPS. CORD AND PLUG. COMPRESSOR TO OPERATE ON HFC-134a REFRIGERANT. EWC SHALL CONFORM TO ANSI A117.1-1986. WATER SYSTEM SHALL BE OF LEAD FREE CONSTRUCTION. ACCESSORIES: PROVIDE WITH 3 SPARE WATER FILTERS PER UNIT.	120V / SINGLE PHASE / 15 AMP	4
FCO-1	-	ZURN Z-1400	FIXTURE: FLOOR CLEANOUT - CAST IRON THREADED ADJUSTABLE HOUSING, FLANGED FERRULE WITH PLUG AND SECURED NICKEL BRONZE TOP. TOP STYLE SHALL MATCH FLOOR FINISH AS FOLLOWS: UNFINISHED FLOOR - ROUND SOLID SCORIATED TOP. TILE- ROUND RECESSED TOP. CARPET - ROUND TOP WITH CARPET MARKER.	-	-
FD-1	-	ZURN Z415 SERIES	FIXTURE: FLOOR DRAIN - 5" DIAMETER NICKEL BRONZE ADJUSTABLE TOP WITH SURFACE MEMBRANE CLAMP. 2" BOTTOM OUTLET, CAST IRON BODY WITH 1/2" TRAP PRIMER CONNECTION, FLASHING COLLAR, DEEP SEAL TRAP.	-	-
FD-2	-	ZURN Z415 SERIES	FIXTURE: FLOOR DRAIN- 4" DIAMETER NICKEL BRONZE ADJUSTABLE TOP WITH SURFACE MEMBRANE CLAMP, 4" BOTTOM OUTLET, CAST IRON BODY WITH 1/2" TRAP PRIMER CONNECTION, FLASHING COLLAR, DEEP SEAL TRAP.		-
GD-1	-	INSINKERATOR BADGER 5	FIXTURE: GARBAGE DISPOSAL, 1/2 HP, 1-1/2" OUTLET CONNECTION, WALL SWITCH ON/OFF CONTROL, STAINLESS STEEL GRINDING ELEMENTS, PERMANENTLY LUBRICATED BEARINGS, AUTOMATIC RESET OVERLOAD PROTECTION, 5 YEAR MINIMUM WARRANTY.	120V / SINGLE PHASE / 20 AMP	4
HB-1	-	ACORN 8160 SERIES	FIXTURE: FREEZELESS WALL HYDRANT, CONCEALED TYPE WITH FLUSH MOUNTED WALL BOX WITH STANDARD FINISH, AUTOMATIC DRAINING, VACUUM BREAKER, 3/4" MALE HOSE THREAD, BRASS VALVE BODY AND SEAT, NON-FERROUS METAL STEM, STANDARD FINISH, WALL CLAMP. FURNISH TWO LOOSE KEY OPERATORS. ASSE 1019 APPROVED AND LISTED.	-	-
HB-2	-	ZURN Z1388XL	FIXTURE: HOSE BIBB - FREEZELESS ROOF HYDRANT, 3/4" MALE HOSE THREAD DUAL CHECK BACKFLOW PREVENTER ON OUTLET WITH INTEGRAL VENT, 3/4" NPT INLET, ONE PIECE PLUNGER, EPDM OR TPO ROOF BOOT. PROVIDE MANUFACTURERS CAST IRON HYDRANT SUPPORT, MOUNTING SYSTEM.	-	-
MB-1	-	FIAT MSB	FIXTURE: MOP BASIN - MOLDED STONE, 24"x24"x10". STAINLESS STEEL DRAIN WITH COMBINATION DOME STRAINER AND LINT BASKET, 3" OUTLET. DEEP SEAL TRAP. TRIM: TWO HANDLE EXPOSED MIXING FAUCET, COLOR INDEXED METAL CROSS HANDLES, POLISHED CHROME PLATED, 3/4" HOSE THREAD SPOUT WITH INTEGRAL VACUUM BREAKER, WALL BRACE, INTEGRAL STOPS. EQUAL TO DELTA 28T9. ACCESSORIES: STAINLESS STEEL BUMPER GUARD ON ALL OPEN SIDES. FRICTION HINGE MOP HANGER, HOSE, AND HOSE BRACKET. STAINLESS STEEL WALL GUARDS.	-	-
MV-1	-	POWERS LFLM495 SERIES	FIXTURE: UNDER-COUNTER THERMOSTATIC MIXING VALVE FOR TEMPERED WATER CONTROL. ALL LEAD FREE BRONZE/BRASS CONSTRUCTION, TAMPER RESISTANT ADJUSTABLE TEMPERATURE CONTROL, UNION CONNECTIONS WITH INTEGRAL CHECKS AND STRAINERS. LINIT TO MIX 120 DEGREE F. HOT WATER SUPPLY AND 40 DEGREE F. COLD WATER SUPPLY FOR 110 DEGREE F. OUTLET AT 0.5 GPM MINIMUM. SHALL CONFORM TO THE REQUIREMENTS OF ASSE 1070. ACCESSORIES: PROVIDE SURFACE MOUNTED STAINLESS STEEL CABINET WITH LOCKING DOOR TO ENCLOSE VALVE, INLET STOPS, OUTLET THERMOMETER, AND OUTLET VALVES. CONFIGURATION OF VALVE AND BOX SHALL BE AS INDICATED ON THE PLANS.	-	-
UR-1	UR-1A	ACORN PENAL-WARE 1709HEU SERIES	FIXTURE: URINAL - WALL HUNG, FLUSH VALVE TYPE, WHITE VITREOUS CHINA, WASHOUT, WATER SAVING 1.0 GALLON PER FLUSH, 3/4" BACK SPUD, 2" OUTLET, ELONGATED RIM AND EXTENDED SIDE SHIELDS. TRIM: FLUSH VALVE - RECESSED, SENSOR OPERATED, WITH OVER-RIDE.HARDWIRED, 120VAC TO 24VAC TRANSFORMER CAPABLE OF OPERATING UP TO 10 UNITS, RANGE ADJUSTMENT SCREW CHROME PLATED 3/4" I.P.S. SCREWDRIVER STOP-CHECK VALVE, VACUUM BREAKER, WALL AND SPUD FLANGES, 1.0 GALLONS PER FLUSH. 3 YEAR WARRANTY. FLOOR MOUNTED CARRIER AND ACCESORIES TO MATCH INSTALLATION REQUIREMENTS. EQUAL TO ZURN Z6000 SERIES. ACCESSORIES: PROVIDE WITH WALL CLEANOUT WCO-1.	120V / SINGLE PHASE / 20 AMP	3
WHA-#	-	ZURN 1260XL	FIXTURE: WATER HAMMER ARRESTOR. METAL BODY AND CONNECTIONS. PISTON-TYPE WHERE WATER IS NOT IN DIRECT CONTACT WITH AIR, AND AIR IS PERMANENTLY SEALED WITHIN CHAMBER. ALL WETTED COMPONENTS SHALL BE LEAD FREE COMPLIANT. UNIT SHALL MEET REQUIREMENTS OF ASSE 1010. SIZE AS FOLLOWS - # (FIXTURE UNITS RANGE): 1 (1-11 SFU), 2 (12-32 SFU), 3 (33-60 SFU), 4 (61-113 SFU), 5 (114-154), 6 (115-330). NUMBER ON PLAN DENOTES SIZE.	-	-
WB-1	-	GUY GRAY MIB SERIES	FIXTURE: WALL BOX - WHITE POWDER COATED 20 GA STEEL ENCLOSURE WITH HINGED COVER, ONE QUARTER-TURN ANGLE VALVE. COORDINATE OUTLET TYPE AND SIZE WITH EQUIPMENT SERVED. ACCESSORIES: INSTALL WALL BOX BELOW COUNTER BEHIND CABINETRY. ROUTE CW LINE UP THROUGH COUNTERTOP AND PROVIDE RUBBER GROMMET.	-	-
WB-2	-	GUY GRAY RMDW SERIES	FIXTURE: WALL BOX - WHITE POWDER COATED 20 GA STEEL ENCLOSURE WITH HINGED COVER, ONE QUARTER-TURN ANGLE VALVE, INTEGRAL WATER HAMMER ARRESTOR AND DRAIN PORT. COORDINATE OUTLET TYPE AND SIZE WITH EQUIPMENT SERVED. ACCESSORIES: PROVIDE WITH AIR GAP ON WASTE CONNECTION.	-	-
WC-1	WC-1A	ZURN Z-5615 SERIES	FIXTURE: WATER CLOSET - WALL HUNG, WHITE VITREOUS CHINA, SIPHON JET, ELONGATED BOWL, 1-1/2" TOP SPUD. TRIM: FLUSH VALVE - EXPOSED, SENSOR OPERATED, WITH OVER-RIDE, HARDWIRED, 120VAC TO 24VAC TRANSFORMER CAPABLE OF OPERATING UP TO 10 UNITS, RANGE ADJUSTMENT SCREW CHROME PLATED 1" I.P.S. SCREWDRIVER STOP-CHECK VALVE, VACUUM BREAKER, WALL AND SPUD FLANGES, 1.6 GALLONS PER FLUSH. 3 YEAR WARRANTY. EQUAL TO ZURN Z6200 (AUTOMATIC). ACCESSORIES: WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID ANTI-MICROBIAL PLASTIC SELF-SUSTAINING SEAT WITH CHECK HINGE AND STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS. CLOSET CARRIER (COMBINATION CHAIR CARRIER AND DRAINAGE FITTING) AND ACCESSORIES TO MATCH INSTALLATION REQUIREMENTS.	[120V / SINGLE PHASE / 20 AMP]	3
WC-2	WC-2A	ACORN MERIDIAN 2141-RM SERIES	FIXTURE: WATER CLOSET - WALL MOUNTED, 14 GAUGE, TYPE 304 STAINLESS STEEL, SIPHON JET, ELONGATED BOWL, 1-1/2" TOP SPUD. TRIM: FLUSH VALVE - RECESSED, SENSOR OPERATED, WITH OVER-RIDE, HARDWIRED, 120VAC TO 24VAC TRANSFORMER CAPABLE OF OPERATING UP TO 10 UNITS, RANGE ADJUSTMENT SCREW CHROME PLATED 1" I.P.S. SCREWDRIVER STOP-CHECK VALVE, VACUUM BREAKER, WALL AND SPUD FLANGES, 1.6 GALLONS PER FLUSH. 3 YEAR WARRANTY. EQUAL TO ZURN Z6200 (AUTOMATIC). ACCESSORIES: WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED, SOLID ANTI-MICROBIAL PLASTIC SELF-SUSTAINING SEAT WITH CHECK HINGE AND STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS. DRAINAGE FITTINGS AND ACCESSORIES TO MATCH INSTALLATION REQUIREMENTS.	120V / SINGLE PHASE / 20 AMP	3
WCO-1	-	ZURN Z-1446	FIXTURE: WALL CLEANOUTS SHALL HAVE CAST IRON ACCESS BODY, GAS AND WATERTIGHT THREADED PLUG, ROUND STAINLESS STEEL ACCESS COVER AND EXTENDED MACHINE SCREW.	-	-
YCO-1	-	ZURN Z-1474	FIXTURE: 2-WAY YARD CLEANOUT - TWO ROUND DURA-COATED CAST IRON CLEANOUT AND DOUBLE FLANGED HOUSINGS, HEAVY DUTY SECURED SCORIATED DURA-COATED CAST IRON COVERS WITH LIFTING DEVICE. BRONZE CLEANOUT PLUGS AND GASKWATERTIGHT SEALS. PROVIDE WITH A DOUBLE, 2-WAY CLEANOUT FITTING. REFER TO YARD CLEANOUT DETAIL FOR ADDITIONAL INFORMATION. SIZE AS LISTED ON PLANS.	-	-

NOTES:
1. FIXTURE TO BE ADA COMPLIANT AND INSTALLED AT ADA HEIGHT. COORDINATE REQUIRED LOCATIONS WITH ARCHITECTURAL DRAWINGS.
2. SEE SPECIFICATIONS FOR LIST OF ACCEPTABLE MANUFACTURERS AND INSTALLATION REQUIREMENTS.
3. HARDWIRED DISCONNECT BY E.C.
4. CORD & PLUG DISCONNECT BY MFR.

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Revisions

PROJECT NO. 2613
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DATE 10/22/2026
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PLUMBING SCHEDULES PT600

ABBREVIATIONS

▲T	TEMPERATURE DIFFERENCE	LB	POUND
Ø	ROUND	LB/HR	POUNDS PER HOUR
ABV	ABOVE	LD	LINEAR DIFFUSER
AC	AIR CONDITIONING	LP	LOW PRESSURE
AD	AREA DRAIN	LP	LIQUIFIED PETROLEUM GAS
ADD	ADDENDUM	LVR	LOUVER
A/E	ARCHITECT / ENGINEER	LWT	LEAVING WATER TEMPERATURE
AFF	ABOVE FINISHED FLOOR	MA	MIXED AIR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MAX	MAXIMUM
ALT	ALTERNATE	MBH	ONE THOUSAND BTU PER HOUR
AP	ACCESS PANEL	M.C.	MECHANICAL CONTRACTOR
ARCH	ARCHITECT/ARCHITECTURAL	MD	MOTORIZED DAMPER
BAS	BUILDING AUTOMATION SYSTEM	MECH	MECHANICAL
BFF	BELOW FINISHED FLOOR	MFR	MANUFACTURER
BHP	BRAKE HORSEPOWER	MIN	MINIMUM
BLW	BELOW	MISC	MISCELLANEOUS
BTU	BRITISH THERMAL UNITS	MP	MEDIUM PRESSURE
BTUH	BRITISH THERMAL UNITS PER HOUR	MTR	MOTOR
CAP	CAPACITY	MUA	MAKE-UP/AIR
CB	CATCH BASIN	NC	NOISE CRITERIA
CD	CEILING DIFFUSER	NC	NORMALLY CLOSED
CFM	CUBIC FEET PER MINUTE	NIC	NOT IN CONTRACT
CFH	CUBIC FEET PER HOUR	NG	NATURAL GAS
CLG	CEILING	NO	NUMBER
C.M.	CONSTRUCTION MANAGER	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CV	CONTROL VALVE	O	OXYGEN
CW	COLD WATER	OA	OUTSIDE AIR
D	DEGREE	ORD	OVERFLOW ROOF DRAIN
DB	DRY BULB	PD	PRESSURE DROP
DDC	DIRECT DIGITAL CONTROLS	PIV	POST INDICATOR VALVE
DIA	DIAMETER	PLBG	PLUMBING
DN	DOWN	PRESS	PRESSURE
DW	DEIONIZED WATER	PRV	PRESSURE REDUCING VALVE
EAT	ENTERING AIR TEMPERATURE	PSI	POUNDS PER SQUARE INCH
E.C.	ELECTRICAL CONTRACTOR	PSIG	POUNDS PER SQUARE INCH GAUGE
ELEC	ELECTRICAL	PWR	POWER
EQUIP	EQUIPMENT	R	DUCT RISER
EWC	ELECTRIC WATER COOLER	RA	RETURN AIR
EWT	ENTERING WATER TEMPERATURE	RCP	RADIANT CEILING PANEL
EA	EXHAUST AIR	RD	ROOF DRAIN
EG	EXHAUST GRILLE	REC	RECESSED
EXIST	EXISTING	RED	REDUCER
F	DEGREES FAHRENHEIT	RG	RETURN GRILLE
FCO	FLOOR CLEAN OUT	RH	RELATIVE HUMIDITY
FD	FLOOR DRAIN	RLA	RELIEF AIR
FDC	FIRE DEPARTMENT CONNECTION	RM	ROOM
FL	FLOOR	RPM	REVOLUTIONS PER MINUTE
FO	FUEL OIL	SA	SUPPLY AIR
FOV	FUEL OIL VENT	SAN	SANITARY
FOR	FUEL OIL RETURN	SD	SMOKE DAMPER
FOS	FUEL OIL SUPPLY	SF	SQUARE FOOT
FPC	FIRE PROTECTION CONTRACTOR	SG	SUPPLY GRILLE
FPM	FEET PER MINUTE	SM	SURFACE MOUNT
FS	FLOOR SINK	SP	STATIC PRESSURE
FT	FOOT/FEET	SR	SUPPLY REGISTER
FTR	FIN TUBE RADIATION	STM	STEAM
GAL	GALLON	T	THERMOSTAT
GF	GAS-FIRED	T.C.	TEMP CONTROLS CONTRACTOR
G.C.	GENERAL CONTRACTOR	TD	TEMPERATURE DROP
GPM	GALLONS PER MINUTE	TD	TRENCH DRAIN
GW	GREASE WASTE	TEMP	TEMPERATURE
HB	HOSE BIBB	TYP	TYPICAL
HP	HORSE POWER	UG	UNDERGROUND
HP	HIGH PRESSURE	VAC	VACUUM
HTG	HEATING	V	VENT
HTR	HEATER	VAV	VARIABLE AIR VOLUME
HW	HOT WATER	VENT	VENTILATION
HYD	HYDRANT	VTR	VENT THROUGH ROOF
ID	INDIRECT DRAIN	W	WASTE
IN	INCH	WB	WET BULB
I.E.	INVERT ELEVATION	WCO	WALL CLEAN OUT
K.E.C.	KITCHEN EQUIPMENT CONTRACTOR	WH	WALL HYDRANT
LAT	LEAVING AIR TEMPERATURE	YCO	YARD CLEANOUT

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT	ERV	ENERGY RECOVERY VENTILATOR
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
BCU	BLOWER COIL UNIT	GRV	GRAVITY ROOF VENTILATOR
CH	CHILLER	HP	HEAT PUMP
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	P	PUMP
CP	CONDENSER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RF	RETURN FAN
DC	DUCT MOUNTED COIL	RHC	REHEAT COIL
DP	DOMESTIC WATER CIRCULATING PUMP	RTU	ROOFTOP UNIT
EF	EXHAUST FAN	SP	SUMP PUMP
EDC	ELECTRIC DUCT COIL	UH	UNIT HEATER
ET	EXPANSION TANK	WH	WATER HEATER

* NOTE *

ALL GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL SUBSEQUENT SHEETS IN SHEET LIST. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

GENERAL PLAN SYMBOLS

- PLAN REVISION NUMBER
- DETAIL NUMBER ON SHEET / SHEET NUMBER WHERE DETAIL IS PLACED
- KEYNOTE SYMBOL
- POINT WHERE NEW CONNECTS TO EXISTING
- Room Name / Number — ROOM NAME / NUMBER
- AREA BEING DEMOLISHED
- AREA NOT IN CONTRACT
- MARK — SCHEDULED EQUIPMENT (UNDERLINED)
- MARK — NONSCHEDULED EQUIPMENT
- (E) MARK — EXISTING EQUIPMENT - HALFTONE - (E) PREFIX
- (R) MARK — EXISTING RELOCATED EQUIPMENT - (R) PREFIX

DUCTWORK SYMBOLS

- 24/12 — RECT. DUCT SIZE (WIDTH / HEIGHT)
- 18Ø — ROUND DUCT SIZE (DIAMETER)
- 18/12D SUPPLY AIR — OVAL DUCT SIZE (WIDTH / HEIGHT)
- 18/12 — EXISTING DUCT TO REMAIN
- 36/12 — DUCT TO BE DEMOLISHED
- SA — SUPPLY AIR
- RA — RETURN AIR
- EA — EXHAUST AIR
- OA — OUTSIDE AIR
- FLUE — FLUE GAS VENT
- CA — COMBUSTION AIR
- RECT. SUPPLY DUCT RISE / DROP
- ROUND SUPPLY DUCT RISE / DROP
- RECT. RETURN DUCT RISE / DROP
- ROUND RETURN DUCT RISE / DROP
- RECT. EXHAUST DUCT RISE / DROP
- ROUND EXHAUST DUCT RISE / DROP
- FLEXIBLE DUCTWORK

AIR TERMINALS

- SUPPLY GRILLE, REGISTER, DIFFUSER
- RETURN GRILLE, REGISTER, DIFFUSER
- EXHAUST GRILLE, REGISTER, DIFFUSER

DIFFUSER CALLOUT SYMBOL

NECK SIZE — CD-1 — MARK
CFM — P.0.15 — SLOT QT. (IF APPLICABLE)
100

DAMPER TYPES

- MANUAL DAMPER
- (M) MOTORIZED DAMPER
- (B) BACKDRAFT DAMPER
- (S) SMOKE DAMPER
- (F) FIRE DAMPER
- (C) COMB. FIRE/ SMOKE DAMPER

MECHANICAL PIPING SYMBOLS

- 2" — NOMINAL PIPE SIZE
- 2" CHWS — EXISTING PIPE TO REMAIN
- PIPE TO BE DEMOLISHED
- BD — BOILER BLOW DOWN
- BFW — BOILER FEED-WATER
- CHWS — CHILLED-WATER SUPPLY
- CHWR — CHILLED-WATER RETURN
- CWS — CONDENSER-WATER SUPPLY
- CWR — CONDENSER-WATER RETURN
- FOS — FUEL OIL SUPPLY
- FOR — FUEL OIL RETURN
- GLS — GEOTHERMAL LOOP SUPPLY
- GLR — GEOTHERMAL LOOP RETURN
- HWS — HOT-WATER SUPPLY
- HWR — HOT-WATER RETURN
- RL — REFRIGERANT LINESET
- LPS — LOW PRESSURE STEAM SUPPLY
- LPR — LOW PRESSURE STEAM RETURN
- MPS — MEDIUM PRESSURE STEAM SUPPLY
- MPR — MEDIUM PRESSURE STEAM RETURN
- HPS — HIGH PRESSURE STEAM SUPPLY
- HPR — HIGH PRESSURE STEAM SUPPLY
- NG — NATURAL GAS
- LP — LIQUID PROPANE
- D — CONDENSATE DRAIN

PIPE FITTINGS

- PIPE RISE / DROP
- PIPE ELBOW
- PIPE TEE HORIZONTAL / RISER / DROP
- PIPE CAP / CONTINUATION

PIPE ACCESSORIES

- BALANCING VALVE
- BALL VALVE
- GATE VALVE
- GENERIC ISOLATION VALVE
- PRESSURE REDUCING VALVE
- 2-WAY ELEC. CONTROL VALVE
- 3-WAY ELEC. CONTROL VALVE
- FLOW SENSOR
- PRESSURE SENSOR
- TEMPERATURE SENSOR & WELL
- INLINE SENSOR
- FLEXIBLE CONNECTOR
- PRESSURE GAUGE
- UNION
- STRAINER
- ANGLE VALVE
- BUTTERFLY VALVE
- PLUG VALVE
- GAS METER
- INLINE PUMP
- HOSE BIBB/ HYDRANT
- P/T PORT
- AIR VENT
- PRESSURE RELIEF
- STEAM TRAP
- THERMOMETER

DATA DEVICES

- T — THERMOSTAT
- H — HUMIDISTAT
- T/H — TEMPERATURE & HUMIDITY DETECTOR
- T/C — TEMPERATURE & CO2 DETECTOR
- D — GENERIC DETECTOR
- DDC SENSOR. SEE ABBREVIATIONS LIST

GENERAL NOTES - FUEL GAS

1. ALL FUEL GAS WORK SHOULD BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION:
   - NFPA 54 -NATIONAL FUEL GAS CODE
   - 2023 FLORIDA BUILDING CODE - FUEL GAS
   - LOCAL CODES. INCLUDING ALL AMENDMENTS AND ORDINANCES
2. NATURAL GAS SERVICE, METER AND UTILITY REGULATOR SHALL BE PROVIDED AND INSTALLED BY THE GAS UTILITY COMPANY, PAID FOR BY THE OWNER.
3. TEST AND PURGE NATURAL GAS PIPING PER NFPA 54 RECOMMENDATIONS.
4. PROVIDE GAS PIPING TO EQUIPMENT AND ALL FINAL CONNECTIONS REQUIRED FOR OPERATION.
5. PROVIDE A LEVER HANDLE GAS SHUT-OFF VALVE IN THE BRANCH PIPING OF EACH APPLIANCE OR PIECE OF EQUIPMENT. FOR EACH APPLIANCE INSTALL QUICK DISCONNECT, FLEXIBLE PIPE "WHEN ALLOWED BY CODE", AND RESTRAINING DEVICE FURNISHED BY OWNER. PROVIDE PRESSURE REDUCING VALVES AT EACH PIECE OF EQUIPMENT OR APPLIANCE IF GAS PRESSURE GREATER THAN 10" WC IS USED DOWNSTREAM FROM THE GAS METER.
6. NATURAL GAS PIPING INSTALLED BELOW FLOOR SHALL BE INSTALLED IN CONDUIT AND VENTED PER NFPA 54 REQUIREMENTS.
7. EMERGENCY GAS SOLENOID VALVES SHALL BE WIRED TO BE POWER OPEN/FAIL CLOSED.
8. VENT ALL REGULATORS PER FUEL GAS CODE REQUIREMENTS, EITHER TO THE BUILDING EXTERIOR OR BY PROVIDING VENT LIMITING DEVICES APPROVED FOR INDOOR LOCATIONS.

GENERAL NOTES - MECHANICAL

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE HVAC SYSTEMS AS INDICATED ON DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY MOST CURRENT INTERNATIONAL MECHANICAL CODE AND ANY APPLICABLE LOCAL CODES. PROVIDE CLEARANCE FOR INSPECTION, REPAIR, REPLACEMENT, AND SERVICE TO ALL EQUIPMENT TO INCLUDE A MINIMUM OF 36 INCHES FROM ALL OBSTRUCTIONS (WALLS, STRUCTURE, DUCTWORK, PIPES, ETC.). CLEARANCE SHALL MAINTAIN ACCESS TO ALL ELECTRICAL PANELS, ACCESS DOORS, CONTROLLERS, VALVES, JUNCTION BOXES AND OPERATORS AND INCLUDE THE AREA DIRECTLY IN FRONT OF AND ABOVE THE SYSTEM COMPONENTS. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, FLANGES, ACCESSORIES, AND OTHER APPARATUS REQUIRING ACCESS ARE ACCESSIBLE.
2. MECHANICAL CONTRACTOR SHALL VISIT THE JOB SITE AND EXAMINE THE DRAWINGS OF OTHER TRADES PRIOR TO BIDDING TO THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS AND THE SCOPE OF THE PROJECT. FAILURE TO DO SO DOES NOT RELIEVE THE MECHANICAL CONTRACTOR OF THE RESPONSIBILITY TO UNDERSTAND THE SCOPE OR OF UNDERSTANDING ANY FIELD CONDITIONS WHICH COULD BE REASONABLY EXPECTED TO BE KNOWN BY A THOROUGH INVESTIGATION.
3. DRAWINGS ARE DIAGRAMMATICAL IN NATURE. IT IS NOT INTENDED THAT THE DRAWINGS SHOW EVERY DUCT, FITTING, TRANSITION, DAMPER, ETC., AND IT IS UNDERSTOOD THAT WHILE THE DRAWINGS MUST BE FOLLOWED AS CLOSELY AS CIRCUMSTANCES WILL PERMIT, THE PROPER INSTALLATION ACCORDING TO THE TRUE INTENT AND MEANING OF THE DRAWINGS, LOCAL CODES AND STANDARD PRACTICES SHALL BE PROVIDED. MECHANICAL CONTRACTOR TO PROVIDE ALL DUCTWORK TRANSITIONS, FLEXIBLE CONNECTIONS, AND ACCESSORIES AS REQUIRED. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO INSTALLATION. REPORT ANY PROBLEMS OR CONFLICTS TO THE OWNER OR ENGINEER.
4. ANY MINOR CHANGES IN THE LOCATION OF EQUIPMENT, DUCTS, PIPE CONTROL DEVICES, ETC., FROM THOSE LOCATIONS SHOWN ON THE DRAWINGS SHALL BE MADE WITHOUT EXTRA COST IF SO DIRECTED BY THE OWNERS REPRESENTATIVE OR ENGINEER BEFORE THE INSTALLATION IS MADE. A MINOR CHANGE IN LOCATION SHALL BE CONSIDERED TO BE WITHIN 6'-0" OF THE ORIGINALLY INDICATED LOCATIONS.
5. VERIFY ALL DIMENSIONS BY FIELD MEASUREMENTS. VERIFY FINAL LOCATIONS FOR ROUGH-INS WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED.
6. WHERE MOUNTING HEIGHTS ARE NOT DETAILED OR DIMENSIONED, INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT TO PROVIDE THE MAXIMUM HEADROOM POSSIBLE.
7. INSTALL SYSTEMS, MATERIALS AND EQUIPMENT LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS WHERE INSTALLED EXPOSED IN FINISHED SPACES AND GIVING RIGHT-OF-WAY PRIORITY TO SYSTEMS REQUIRED TO BE INSTALLED AT A SPECIFIED SLOPE.
8. INSTALL ALL HVAC EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
9. ALL OPENINGS IN FIRE-RATED AND SMOKE-RATED WALLS DUE TO DUCTWORK, PIPING AND CONTROL CONDUIT SHALL BE FIRE-STOPPED WITH AN APPROVED FIRE STOP MATERIAL. COORDINATE INSTALLATION WITH ARCHITECTURAL CODE PLANS.
10. PROVIDE ACCESS DOORS IN DUCTWORK OR WALLS/CEILING FOR OPERATION, ADJUSTMENT, AND MAINTENANCE OF ALL FANS, VALVES, COILS, AND MECHANICAL EQUIPMENT. COILS LOCATED IN DUCTWORK TO BE PROVIDED WITH ACCESS DOORS ON OUTLET SIDE OF COIL.
11. LOCATIONS AND SIZES OF ALL FLOOR, CEILING AND WALL OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED AND THE OWNER.
12. MECHANICAL CONTRACTOR SHALL COORDINATE CEILING DIFFUSER/GRILLE/REGISTER LOCATIONS WITH LIGHTING, FIRE ALARM EQUIPMENT AND FIRE SUPPRESSION SYSTEMS.
13. MECHANICAL CONTRACTOR SHALL PROVIDE MANUAL BALANCE DAMPERS IN ALL BRANCH TAKE-OFFS TO SUPPLY DIFFUSERS. PROVIDE ADDITIONAL MANUAL BALANCE DAMPERS IN MAIN AND SUB-MAIN DUCTS AS REQUIRED TO ENSURE THE SUPPLY AND RETURN AIR SYSTEMS CAN BE BALANCED TO THE SPECIFIED DESIGN AIRFLOW.
14. IN AREAS WHERE A CEILING GRID EXISTS, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF EXISTING CEILING GRID AND TILES AS NECESSARY FOR INSTALLATION OF VENTILATING WORK. ANY PORTION OF THE EXISTING TILES OR GRID WHICH BECOME DAMAGED DURING REMOVAL SHALL BE REPLACED BY THE MECHANICAL CONTRACTOR.
15. DO NOT ROUTE DUCT OR PIPING ABOVE OR BELOW ELECTRICAL PANELS INCLUDING SERVICE CLEARANCES.
16. ALL RECTANGULAR AND/OR ROUND SUPPLY AND RETURN DUCTWORK SHOWN ON THE PLANS MAY BE CONVERTED TO EQUIVALENT ROUND/RECTANGULAR DUCTWORK AT THE DISCRETION OF THE MECHANICAL CONTRACTOR. ANY DUCT CONVERSIONS SHALL BE SUBMITTED AS PART OF THE DUCTWORK SHOP DRAWINGS FOR APPROVAL BY THE ENGINEER.
17. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING METHODS OF BRINGING IN MECHANICAL EQUIPMENT THROUGH BUILDING INTO MECHANICAL ROOMS.
18. PIPING SHALL NOT BE SUPPORTED FROM OTHER PIPING, CONDUIT, OR DUCTWORK.
19. PROVIDE CHAIN WHEEL OPERATORS FOR ALL VALVES IN EQUIPMENT ROOMS MOUNTED GREATER THAN 7'-0" ABOVE FLOOR LEVEL. CHAIN SHALL EXTEND TO 7'-0" ABOVE FLOOR LEVEL.
20. COORDINATE PIPE ROUTING TO AVOID RUNNING PIPING BELOW ROOF HATCHES, SKYLIGHTS AND ACCESS PANELS.
21. ALL CONTROL WIRING ROUTED EXPOSED IN SPACES SUCH AS MECHANICAL ROOMS OR ABOVE HARD CEILINGS SHALL BE ROUTED IN CONDUIT. CONTROL WIRING ROUTED ABOVE ACCESSIBLE CEILINGS IS NOT REQUIRED TO BE RUN IN CONDUIT, BUT SHOULD BE SECURELY STRAPPED TO PERMANENT SUPPORTS FOR A CLEAN INSTALLATION.
22. ALL THERMOSTATS SHALL BE MOUNTED AT SAME ELEVATION AS ADJACENT LIGHT SWITCHES UNLESS NOTED OTHERWISE.

MECHANICAL SHEET INDEX

MT000	MECHANICAL COVER PAGE
MT100	MECHANICAL FLOOR PLAN
MT500	MECHANICAL DETAILS
MT600	MECHANICAL SCHEDULES

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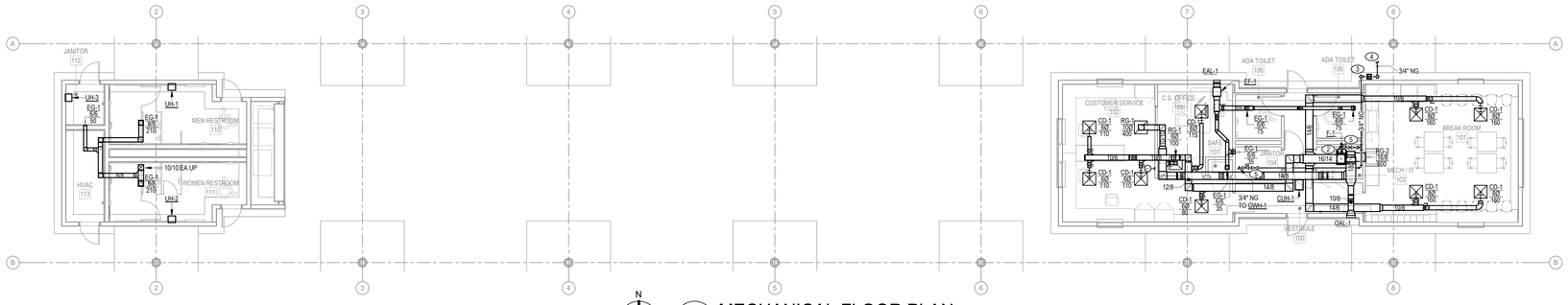
Revisions

PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
DRAWN BY ADG

MECHANICAL COVER PAGE MT000

KEYED NOTES:

1. INSTALL REFRIGERANT PIPING FROM AIR COOLED CONDENSING UNIT TO ASSOCIATED EVAPORATOR COIL. SIZE PER MANUFACTURER'S RECOMMENDATION. INSTALL THE CONDENSING UNIT ON A PLASTIC PAD A MINIMUM OF 4 INCHES THICK AND 6 INCHES WIDER AND LONGER THAN THE UNIT IN ALL DIRECTIONS.
2. INTERLOCK 24V MOTORIZED DAMPER TO OPEN WITH FURNACE OPERATION DURING OCCUPIED TIME. ROUTE FURNACE FLUE AND INTAKE UP. TERMINATE WITH CONCENTRIC VENT KIT. MAINTAIN 10 FEET CLEARANCE FROM OUTDOOR AIR INTAKES.
3. ALL EXTERIOR GAS PIPING TO BE PAINTED. COLOR TO BE SELECTED BY ARCHITECT.
4. COORDINATE WITH LOCAL UTILITY TO PROVIDE GAS METER AND REGULATOR. PROVIDE 2 PSI GAS. SEE CIVIL FOR PIPE CONTINUATION BELOW GRADE.
5. PROVIDE GAS PRESSURE REDUCING VALVE (2 PSI TO MANUFACTURER'S RECOMMENDED PRESSURE) AND SHUTOFF VALVE AT UNIT.

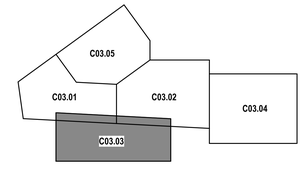


N

1 MECHANICAL FLOOR PLAN
1/8" = 1'-0"

N

2 MECHANICAL ROOF PLAN
1/8" = 1'-0"



KEY MAP

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PROJECT NUMBER 125008

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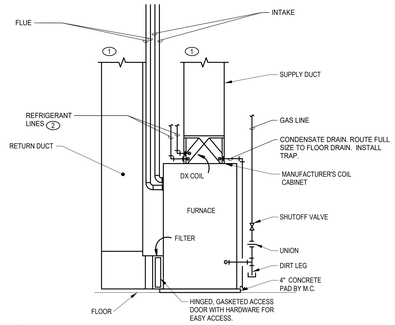
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Revisions

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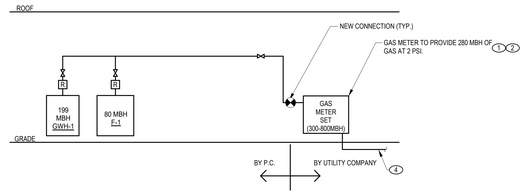
MECHANICAL FLOOR PLAN **MT100**



4 FURNACE - GAS
N.T.S.

KEYED NOTES:

1. SEE DRAWINGS FOR DUCT ROUTING AND PIPE SIZING.
2. COORDINATE SIZE AND ROUTING OF REFRIGERANT LINES WITH MANUFACTURER



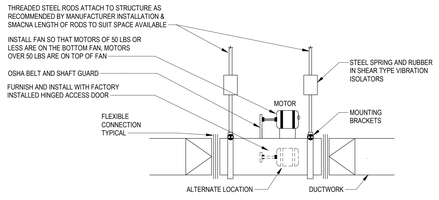
7 NATURAL GAS PIPING RISER
N.T.S.

GENERAL NOTES:

1. SEE PLANS FOR PIPE SIZES.
2. VENT ALL REGULATORS PER THE FUEL GAS CODE.
3. PAINT ALL EXPOSED PIPING AND FITTINGS. COORDINATE COLOR WITH ARCHITECT
4. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL NEW SERVICE AND METER FEES ASSOCIATED WITH INSTALLING NEW AND/OR RELOCATING GAS METER(S).
5. COORDINATE LOCATION OF SOLENOID VALVES WITH ARCHITECT.
6. METER SET DIMENSIONS LISTED ARE APPROXIMATE. M.C. TO COORDINATE FINAL METER SET DIMENSIONS BASED ON PROJECT SPECIFIC METER SET DESIGN WITH UTILITY COMPANY.

KEYED NOTES:

1. M.C. TO PROVIDE UNI-STRUT RACK AND MOUNTING HARDWARE PER UTILITY COMPANY REQUIREMENTS.
2. M.C. TO PROVIDE BOLLARD POSTS PER UTILITY COMPANY REQUIREMENTS. REFER TO NATURAL GAS METER SET BOLLARD DETAIL FOR ADDITIONAL REQUIREMENTS.
3. LINE SIZE VALVE & CAP FOR FUTURE CONNECTION.
4. UNDER GROUND GAS UTILITY MAIN BY OTHERS.



6 IN-LINE FAN SUPPORT DETAIL
N.T.S.



5 EXHAUST FAN - ON/OFF
N.T.S.

CONTROL SEQUENCE:

RUN CONDITIONS - SCHEDULED:
THE FAN SHALL RUN ACCORDING TO A USER DEFINABLE SCHEDULE.

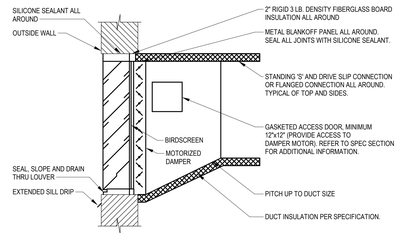
EXHAUST AIR DAMPER:
THE EXHAUST AIR DAMPER SHALL BE PROVIDED WITH THE EXHAUST FAN AND OPEN ANYTIME THE UNIT RUNS AND SHALL CLOSE ANYTIME THE UNIT STOPS.

FAN STATUS:
THE CONTROLLER SHALL MONITOR THE FAN STATUS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.

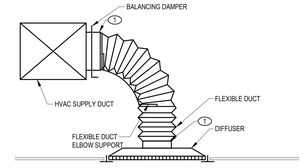
AREAS SERVED:

1. RESTROOMS



3 LOUVER AND DAMPER - DUCTED
N.T.S.

GENERAL NOTES:
1. SEAL ALL JOINTS ON BOTTOM SURFACE OF DUCT WITHIN 6'-0" OF THE LOUVEER WATER TIGHT.
2. MOUNT BOTTOM OF INTAKE LOUVERS AT LEAST 40" ABOVE GRADE OR ROOF ELEVATION TO MINIMIZE CHANCES OF SNOW DRIFTING INTO THE LOUVER.
3. CAULK SHEETMETAL SCREWS WHERE THEY PENETRATE METAL



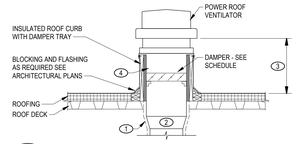
2 FLEX DUCT INSTALL
N.T.S.

GENERAL NOTES:

1. INSTALL FLEXIBLE DUCT ELBOW SUPPORTS AT ALL FLEXIBLE DUCT 90 DEGREE BENDS.
2. 5'-0" MAX FLEXIBLE DUCT LENGTH ALLOWED

KEYED NOTES:

1. M.C TO USE ZIP TIES TO ATTACH FLEX DUCT TO DUCT TAP AND DIFFUSER



1 EXHAUST FAN - DOWNBLAST
N.T.S.

GENERAL NOTES:
1. ROOF CURB PROVIDED BY MECHANICAL CONTRACTOR. COORDINATE INSTALLATION AND FLASHING WITH THE GENERAL CONTRACTOR. REFER TO SCHEDULE FOR HEIGHT REQUIREMENTS.
2. MECHANICAL CONTRACTOR SHALL COORDINATE ROOF OPENING AND CURB SIZE REQUIRED FOR DUCT PENETRATION.
3. SECURE CURB CAP TO WOOD NAILING STRIP WITH 3/8" (10MM) CADMIUM PLATED LAG BOLTS NOT OVER 12" (305MM) ON CENTER
4. SECURE ROOF CURB, DUCTWORK AND DAMPER TO ROOF WITH RUST RESISTANT BOLTS (METALDECK AND BAR JOIST ROOF)
5. SIZE OF DUCT THROUGH ROOF SHALL NOT BE LARGER THEN CURB SUPPLIED WITH ROOF VENTILATOR.

KEYED NOTES:
1. COORDINATE DUCT INSULATION AND CONSTRUCTION WITH DUCT USAGE SCHEDULE.
2. REFER TO PLAN FOR DUCT SIZES AND ROUTING. TRANSITION DUCT TO FULL SIZE OF DAMPER SUPPLIED WITH ROOF VENTILATOR.
3. EXHAUST AIR OUTLET TO BE A MINIMUM OF 18" ABOVE ROOF.
4. RIGID CONDUIT TO ACCOMODATE ELECTRICAL WIRES.

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Revisions

PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
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MECHANICAL DETAILS **MT500**

NOTES:

1. DUCT DIMENSIONS SHOWN ON PLAN ARE CLEAR INSIDE DIMENSIONS AND DO NOT INCLUDE INSULATION.
2. R-VALUE LISTED IN SCHEDULE IS THE MINIMUM ALLOWABLE INSTALLED R-VALUE.
3. INSULATION THICKNESS LISTED IS THE MINIMUM ALLOWABLE INSULATION THICKNESS. CONTRACTOR TO VERIFY REQUIRED INSULATION THICKNESS BASED ON INSULATION DENSITY USED.
4. DUCT SEAL CLASS TO BE BASED ON PRESSURE CLASS AS NOTED BELOW:
   - CLASS A: -10"W.C. THRU -4" W.C.
   - CLASS B: -3" W.C.
   - CLASS C: -2" W.C. THRU +2"W.C.
   - CLASS B: +3" W.C.
   - CLASS A: +4"W.C. THRU +10" W.C.
5. ACTUAL DUCT CONSTRUCTION SHALL EXCEED THE ACTUAL PRESSURE RATING LISTED AND FALL INTO ONE OF THE STANDARD DUCT PRESSURE CLASS RATINGS AS FOLLOWS:
   - 0.5", 1", 2", 3", 4", 6", 10" (POSITIVE OR NEGATIVE)
6. ALL DUCTWORK BETWEEN A FAN AND A FIRE, FIRE / SMOKE OR SMOKE DAMPER REQUIRES A PRESSURE RELIEF DOOR TO PROTECT THE DUCTWORK DURING A CLOSURE OF THE DAMPER WHILE THE FAN IS STILL OPERATING. REFER TO THE PRESSURE RELIEF DOOR SCHEDULE AND SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

INSULATION TYPES:

TYPE A: FLEXIBLE FIBERGLASS - OUTSIDE WRAP

TYPE B: SEMI-RIGID FIBERGLASS BOARD (EXTERIOR OF DUCT)

TYPE C: FLEXIBLE FIBERGLASS LINER

TYPE D: PREFORMED RIGID FIBERGLASS ACOUSTICAL LINER

DUCTWORK APPLICATION SCHEDULE

AIR HANDLING SYSTEM	EQUIPMENT SERVICE	AIRSTREAM	DUCTWORK LOCATION (ALL DUCT CONCEALED UNLESS NOTED OTHERWISE)	SYSTEM TYPE (CONSTANT VOLUME OR VAV OR BOTH)	ACTUAL PRESSURE RATING (IN W.C.) (NOTES 4, 5, & 6)		DUCTWORK MATERIAL	SINGLE OR DOUBLE WALL	DUCT SHAPE	INSULATION APPLICATION (NOTE 1)				NOTES
					SEAL CLASS	F-1			ROUND / RECT / FLAT OVAL	MINIMUM R-VALUE (NOTE 2)	THICKNESS (IN.) (NOTE 3)	TYPE	LINER, WRAP, OR BOARD	
FURNACES	F-#	OUTSIDE AIR	OUTSIDE AIR LOUVER TO AHU HEATING COIL	CONSTANT VOLUME	B	2	GALVANIZED SHEET METAL	SINGLE	RECT	R-6	1-1/2"	B	BOARD	
		SUPPLY AIR	FAN TO AIR OUTLET	CONSTANT VOLUME	B	2	GALVANIZED SHEET METAL	SINGLE	RECT / ROUND / FLAT OVAL	R-6	2.2"	A	WRAP	
					B	2				R-6	1-1/2"	C OR D	LINER	
FURNACES	F-#	RETURN AIR	AIR INLET TO AHU / RTU	CONSTANT VOLUME	B	2	GALVANIZED SHEET METAL	SINGLE	RECT / ROUND / FLAT OVAL	R-6	2.2"	A	WRAP	
					B	2				R-6	1-1/2"	C OR D	LINER	
GENERAL EXHAUST	EF-#	EXHAUST AIR	INLET TO EXHAUST FAN	CONSTANT VOLUME	A	N / A	GALVANIZED SHEET METAL	SINGLE	RECT / ROUND / FLAT OVAL	-	NONE	-	-	
			FIRST 10' UPSTREAM OF EXHAUST FAN	CONSTANT VOLUME	A		GALVANIZED SHEET METAL	SINGLE	RECT / ROUND / FLAT OVAL	R-4	1"	C OR D	LINER	
LOUVERS	OAL-#	OUTSIDE AIR	LOUVER TO INSULATED DAMPER	CONSTANT VOLUME	-	N / A	GALVANIZED SHEET METAL	SINGLE	RECT	R-6	1-1/2"	B	BOARD	
GAS-FIRED APPLIANCE INTAKES AND FLUES	F-#	OUTSIDE AIR	INSIDE THE BUILDING: INLET TO COMBUSTION AIR	CONSTANT VOLUME	-	N / A	SCH 40 CPVC	-	ROUND	R-6	-	A	WRAP	
		EXHAUST / FLUE	INSIDE THE BUILDING: COMBUSTION AIR TO OUTLET	CONSTANT VOLUME	-	N / A	SCH 40 CPVC	-	ROUND	R-4	-	A	WRAP	
DUCTWORK ACCESSORIES	GENERAL	GENERAL	-	-	-	N / A	-	-	-	R-6	2.2"	A	WRAP	

FAN SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	TYPE	AIRFLOW (CFM)	S.P. (IN. W.C.)	MAX. FAN RPM	DRIVE	WHEEL DIA. (INCHES)	MAX. AMCA SONES	ROOF CURB			FAN CONSTRUCTION		ELECTRICAL (FAN)						DAMPER			CONTROL TYPE	NOTES
											TYPE	HEIGHT (IN.) NOTE 2)	PROVIDED BY	HOUSING (STEEL OR ALUM)	WHEEL (STEEL OR ALUM)	BHP	MHP	VOLT	PH	DISCONNECT		STARTER BY	TYPE (MOTORIZED OR GRAVITY)	VOLT	PH		
																					BY	TYPE					
EF-1	GREENHECK	SQ-98-VG	ADA TOILETS JANITOR 104 SAFE 107	INLINE FAN	220	0.5	1221	DIRECT	11	8.3	-	-	-	STEEL	STEEL	0.07	1/4	115	1	MFR	NON-FUSED	MFR	MOTORIZED	120	1	TYPE 1	1
EF-2	GREENHECK	G-090-VG	RESTROOMS	MUSHROOM EXHAUST	460	0.5	1535	DIRECT	11	7.3	STANDARD	12"	MFR.	ALUM	COMPOSITE	0.1	1/10	115	1	MFR	NON-FUSED	MFR	GRAVITY	120	1	TYPE 2	-

NOTES:

1. MOTORIZED BACKDRAFT DAMPER WIRED TO OPEN WHEN FAN OPERATES. FAN TO HAVE A SINGLE POINT POWER CONNECTION FOR FAN AND DAMPER FOR ON / OFF FANS.
2. HEIGHT LISTED IS THE MINIMUM REQUIRED HEIGHT ABOVE THE FINISHED ROOF LEVEL. COORDINATE REQUIRED CURB HEIGHT WITH ARCHITECTURAL DRAWINGS AND ROOF CONSTRUCTION.

CONTROL TYPE:

TYPE 1. INTERLOCK WITH LIGHTS. DELAY FAN SHUTOFF.

TYPE 2. 24/7 OPERATION

FURNACE & CONDENSING UNIT SCHEDULE

MARK	MANUFACTURER	FURNACE MODEL	COND. UNIT MODEL	EVAP. COIL MODEL	MINIMUM OUTSIDE AIR (CFM)	FAN/BLOWER				HEATING		FILTERS (NOTE 2)		ELECTRICAL				CONDENSING UNIT										NOTES
						AIRFLOW (CFM) (HIGH SPEED)	EXT. S.P. (IN. W.C.)	HP	AIR FLOW TYPE	MIN. INPUT (BTUH)	MIN. OUTPUT (BTUH)	THICKNESS/TYPE	MERV	VOLT	PH	DISCONNECT BY	CONTROLLER BY	AMBIENT AIR TEMP. (°F)	REFRIGERANT (NOTE 4)	MBH	SEER	VOLT	PH	MCA	MOCP	DISCONNECT		CONTROLLER BY	
																									BY	TYPE		
F-1 / CU-1	TRANE	S9V2B0804VSAB	5TTVGX36A1000A	4XT SERIES	240	1,200	.9	3/4	UPFLOW	80,000	78,000	2"	8	120	1	EC	MFR	95	R-454B	36	18.4	208	1	29.0	50.0	EC	NON-FUSED	MFR	1, 3

NOTES:

1. PROVIDE GAS FURNACE WITH A CONCENTRIC VENT KIT. INSTALL VENT PIPING PER THE MANUFACTURER RECOMMENDATIONS.
2. CONTRACTOR TO PROVIDE FURNACE WITH FILTER RACK. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
3. PROVIDE SEA COAST COATING TO UNITS, VERIFY COATING REQUIREMENTS WITH MANUFACTURER

NOTES:

1. REFER TO EACH PIPING SPECIFICATION FOR SPECIFIC PIPING REQUIREMENTS.
2. GAS PIPING IS PROHIBITED FROM BEING INSTALLED IN SOLID PARTITIONS OR WALLS UNLESS IN A CHASE OR CASING (PIPE SLEEVE).
3. SEE SPECIFICATION SECTION 230719 FOR COMPLETE INSULATION AND JACKETING REQUIREMENTS. ALL INSULATION SHALL BE PLENUM RATED MEETING ASTM E84 WHERE INSTALLED IN A RETURN AIR PLENUM.
4. INSTALL RIGID CALCIUM SILICATE INSERTS AT ALL PIPING HANGERS.

PIPING APPLICATION SCHEDULE

SYSTEM (NOTE 1)	LOCATION	DESIGN WORKING PRESSURE (PSI)	MATERIAL	JOINTS	USAGE SIZE RANGE	INSULATION APPLICATION		NOTES
						THICKNESS (IN.)	TYPE (NOTES 3, 4)	
NATURAL GAS	ABOVE GRADE 5 PSI PRESSURE OR LESS	125	SCH 40 BLACK STEEL	THREADED OR WELDED	ALL	-	-	2
	ABOVE GRADE GREATER THAN 5 PSI PRESSURE	125	SCH 40 BLACK STEEL	WELDED	ALL	-	-	2
REFRIGERANT	GENERAL	500	ACR COPPER	FLARED END WITH SOLDER	LESS THAN 1-1/2"	1"	ELASTOMERIC FOAM	-
					1-1/2" & GREATER	1-1/2"		

CABINET UNIT HEATER SCHEDULE - ELECTRIC

MARK	MANUFACTURER	MODEL	SERVICE	CONFIGURATION			NOMINAL AIRFLOW (CFM)	ELECTRIC HEATING COIL		CONTROLS TYPE	CABINET DIMENSIONS			ELECTRICAL						NOTES
				CABINET	MOUNTING	DISCHARGE		NUMBER OF STAGES	KW		HEIGHT (IN.)	WIDTH (IN.)	DEPTH (IN.)	HP	VOLT	PH	DISCONNECT		CONTROLLER BY	
																	BY	TYPE		
CUH-1	INDEECO	CDIR	VESTIBULE	HORIZONTAL	RECESSED	BOTTOM	300	1	3.0	2	23-3/4"	23-3/4"	7"	FHP	208	1	MFR	NON-FUSED	MFR	1

NOTES:

1. VERIFY FINAL COLOR SELECTION WITH ARCHITECT.

CONFIGURATION NOTES:

CABINET: HORIZONTAL OR VERTICAL

MOUNTING: CONCEALED / RECESSED / SEMI-RECESSED / SURFACE

DISCHARGE: BOTTOM / TOP / DUCTED / FRONT

CONTROL TYPES:

1. UNIT MOUNTED THERMOSTAT
2. WALL MOUNTED THERMOSTAT - STAND ALONE
3. WALL MOUNTED THERMOSTAT - DDC

UNIT HEATER SCHEDULE - ELECTRIC

MARK	MANUFACTURER	MODEL	SERVICE	TYPE	NOMINAL CFM	ELECTRIC COIL				ELECTRICAL							CONTROL TYPE	NOTES
						EAT (°F)	LAT (°F)	TOTAL KW	NUMBER OF STAGES	FAN HP	VOLT	PH	MCA	MOCP	DISCONNECT	STARTER BY		
															BY	TYPE		
UH-1	TRANE	UHEC	RESTROOM	WALL HUNG	400	50	76	3.3	1	FHP	208	1	15.9	20	MFR.	NON-FUSED	N/A	2	-
UH-2	TRANE	UHEC	RESTROOM	WALL HUNG	400	50	76	3.3	1	FHP	208	1	15.9	20	MFR.	NON-FUSED	N/A	2	-
UH-3	TRANE	UHEC	JANITOR	WALL HUNG	400	50	76	3.3	1	FHP	208	1	15.9	20	MFR.	NON-FUSED	N/A	2	-

CONTROL TYPES:

1. UNIT MOUNTED THERMOSTAT (EXTERNAL KNOB ADJUSTMENT. NO TOOLS REQUIRED)
2. UNIT MOUNTED THERMOSTAT (TAMPER PROOF / SCREWDRIVER OPERATED)
3. WALL MOUNTED THERMOSTAT - STAND ALONE
4. WALL MOUNTED THERMOSTAT - DDC
5. WALL MOUNTED THERMOSTAT - STAND-ALONE WITH HEAVY DUTY ENCLOSURE

ZONE SENSOR SCHEDULE

ZONE TYPE	THERMOSTAT CONFIGURATION (NOTES 1,2)				UNOCCUPIED MODE WITH SETBACK (YES OR NO)	HEATING SETPOINT (°F)	HEATING SETBACK (°F)	COOLING SETPOINT (°F)	COOLING SETBACK (°F)	NOTES
	SENSOR ONLY	LOCAL OVERRIDE	ADJUSTMENT	ADJUSTMENT AMOUNT (°F)						
OPEN OFFICE	NO	YES	YES	± 3	YES	70	55	72	85	

NOTES:

1. VERIFY LOCATION OF ALL THERMOSTATS WITH THE OWNER, ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN.
2. ALL TEMPERATURE SENSORS & THERMOSTATS THAT HAVE USER ADJUSTMENT SHALL BE INSTALLED AT 42" A.F.F. TO THE CENTERLINE OF THE DEVICE.

GRILLES, REGISTERS, & DIFFUSERS SCHEDULE

MARK	MANUFACTURER	MODEL	STYLE	BORDER (NOTE 1)	INLET SIZE (INCH) (NOTE 2)	FACE SIZE (INCH)	DAMPER NEEDED	MATERIAL	COLOR	NOTES
CD-1	TITUS	OMNI	PANEL FACE	LAY-IN	SEE DWG.	24x24	NO	STEEL	WHITE	-
RG-1	TITUS	OMNI	PANEL FACE	LAY-IN	15" DIA.	24x24	NO	STEEL	WHITE	-
RG-2	TITUS	350RL	35° DEFLECTION	SURFACE	SEE DWG.	INLET + 1 3/4"	NO	STEEL	WHITE	-
EG-1	TITUS	350FL	35° DEFLECTION	SURFACE	SEE DWG.	INLET + 1 3/4"	NO	ALUMINUM	WHITE	-

NOTES:

1. CONTRACTOR SHALL DETERMINE PROPER MARGIN STYLE TO MATCH CEILING TYPE.
2. BRANCH DUCT TO DIFFUSERS SHALL BE AT THE SAME SIZE AS THE DIFFUSER NECK, UNLESS SHOWN OTHERWISE.

TEMPERATURE CONTROLS RESPONSIBILITY MATRIX

ITEM	PROVIDED BY	INSTALLED BY	NOTES
EQUIPMENT THERMOSTAT	MFR OR MC	MC	1, 2

NOTES:

1. ALL EQUIPMENT TO HAVE STAND ALONE CONTROLS. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROLS WIRING AND CONDUIT.
2. ALL THERMOSTATS TO BE 7-DAY PROGRAMMABLE WITH NIGHT SETBACK CAPABILITY.

LOUVER SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	AIRFLOW (CFM)	SIZE (INCHES)			FREE AREA (FT^2)	FREE AREA VEL. (FPM)	MAX. S.P. (IN. W.C.)	FINISH (NOTE 1)	NOTES
					W	x	H					
OAL-1	GREENHECK	EVH-302	F-1	240	16	x	14	0.40	618	0.1	BAKED ENAMEL	2
EAL-1	GREENHECK	EVH-302	RESTROOMS	220	12	x	14	0.30	802	0.1	BAKED ENAMEL	-

NOTES:

1. COLOR SELECTION BY ARCHITECT.
2. PROVIDE WITH 24V MOTORIZED DAMPER AND INTERLOCK TO OPEN WITH FURNACE OPERATION DURING OCCUPIED TIME.

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Revisions

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MECHANICAL SCHEDULES **MT600**

ELECTRICAL ABBREVIATIONS

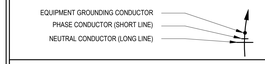
1P	1 POLE (2P, 3P, 4P, ETC.)	LTNG	LIGHTNING
A	4" ABOVE COUNTER OR BACKSPLASH TO CENTERLINE OF DEVICE	LV	LOW VOLTAGE
		M	INSTALL DEVICE IN MILLWORK
A, AMP	AMPERE	MAX	MAXIMUM
AC	ABOVE COUNTER, AIR CONDITIONING UNIT	MAG.S	MAGNETIC STARTER
ACLG	ABOVE CEILING	M/C	MOMENTARY CONTACT
AF	AMP FRAME	MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AFG	ABOVE FINISHED GRADE	MCC	MOTOR CONTROL CENTER
AFCI	ARC FAULT CIRCUIT INTERRUPTER	MDC	MAIN DISTRIBUTION CENTER
		MDP	MAIN DISTRIBUTION PANEL
AHU	AIR HANDLING UNIT	MFR	MANUFACTURER
AL	ALUMINUM	MFS	MAIN FUSED DISCONNECT SWITCH
ALT	ALTERNATE	MH	MANHOLE
AMP	AMPERE	MIC	MICROPHONE
AMPL	AMPLIFIER	MIN	MINIMUM
ANNUN	ANNUNCIATOR	MISC	MISCELLANEOUS
APPROX	APPROXIMATELY	MLO	MAIN LUGS ONLY
AQ.STAT	AQUASTAT	MMS	MANUAL MOTOR STARTER
ARCH	ARCHITECT, ARCHITECTURAL	MOA	MULTIOUTLET ASSEMBLY
AS	AMP SWITCH	MSP	MOTOR STARTER PANELBOARD
AT	AMP TRIP	MSWBD	MAIN SWITCHBOARD
ATC	AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR	N/A	NOT APPLICABLE
		NFDS	NON-FUSED SAFETY DISCONNECT SWITCH
ATS	AUTOMATIC TRANSFER SWITCH		
AUTO	AUTOMATIC	NIC	NOT IN CONTRACT
AUX	AUXILIARY	NL	NIGHT LIGHT
AV	AUDIO VISUAL	N.O.	NORMALLY OPEN
AWG	AMERICAN WIRE GAUGE	NPF	NORMAL POWER FACTOR
B	BLACK DEVICE COLOR WITH BLACK UNBREAKABLE THERMOPLASTIC COVER PLATE	NTS	NOT TO SCALE
		OC	ON CENTER
		OH	OVERHEAD
BAS	BUILDING AUTOMATION SYSTEM	OL	OVERLOADS
BATT	BATTERY	PA	PUBLIC ADDRESS
BD	BOARD	PB	PULL BOX OR PUSHBUTTON
BLDG	BUILDING	PC	PLUMBING CONTRACTOR
BMS	BUILDING MANAGEMENT SYSTEM	PE	PNEUMATIC ELECTRIC
C	CONDUIT	PED	PEDESTAL
CAB	CABINET	PF	POWER FACTOR
CAT	CATALOG	PH	PHASE
CATV	CABLE TELEVISION	PIV	POST INDICATING VALVE
CB	CIRCUIT BREAKER	PNL	PANEL
CCTV	CLOSED CIRCUIT TELEVISION	PP	POWER POLE
CKT	CIRCUIT	PR	PAIR
CLG	CEILING	PRI	PRIMARY
CM	CONSTRUCTION MANAGER	PROJ	PROJECTION
COMB	COMBINATION	PRV	POWER ROOF VENTILATOR
CMPR	COMPRESSOR	PT	POTENTIAL TRANSFORMER
CONN	CONNECTION	PVC	POLYVINYL CHLORIDE (CONDUIT)
CONST	CONSTRUCTION	PWR	POWER
CONT	CONTINUATION OR CONTINUOUS	QTY	QUANTITY
CONTR	CONTRACTOR	RAC	RIGID ALUMINUM CONDUIT
CP	CIRCULATING PUMP	RCPT	RECEPTACLE
CRT	CATHODE-RAY TUBE	REQD	REQUIRED
CT	CURRENT TRANSFORMER	RM	ROOM
CTR	CENTER	RMC	RIGID METALLIC CONDUIT
CU	COPPER	RTU	ROOF TOP UNIT
DEPT	DEPARTMENT	SC	SURFACE CONDUIT
DET	DETAIL	SEC	SECONDARY
DIA	DIAMETER	SHT	SHEET
DISC	DISCONNECT	SIM	SIMILAR
DIST	DISTRIBUTION	SLD	SINGLE-LINE DIAGRAM
DN	DOWN	S/N	SOLID NEUTRAL
DO	AUTOMATIC DOOR OPENER	SPEC	SPECIFICATION
DPR	DAMPER	SPKR	SPEAKER
DS	SAFETY DISCONNECT SWITCH	SP	SPARE
DT	DOUBLE THROW	SPP	SINGLE-POINT POWER
DWG	DRAWING	SR	SURFACE RACEWAY
EC	ELECTRICAL CONTRACTOR	SS	STAINLESS STEEL
ECB	ENCLOSED CIRCUIT BREAKER	SSW	SELECTOR SWITCH
ELEC	ELECTRIC, ELECTRICAL	S/S	STOP/START PUSHBUTTONS
ELEV	ELEVATOR	STA	STATION
ELU	EMERGENCY LIGHTING UNIT	STD	STANDARD
EM	EMERGENCY	SURF	SURFACE MOUNTED
EMS	ENERGY MANAGEMENT SYSTEM	SW	SWITCH
EMT	ELECTRICAL METALLIC TUBING	SWBD	SWITCHBOARD
EP	ELECTRIC PNEUMATIC	SYM	SYMMETRICAL
EPO	EMERGENCY POWER OFF	SYS	SYSTEM
EQUIP	EQUIPMENT	TEL	TELEPHONE
EWC	ELECTRIC WATER COOLER	TERM	TERMINAL
EXIST	EXISTING	T	TAMPER RESISTANT
EXH	EXHAUST	TL	TWIST LOCK
EXP	EXPLOSION PROOF	T-STAT	THERMOSTAT
FA	FIRE ALARM	TTC	TELEPHONE TERMINAL CABINET
FABP	FIRE ALARM BOOSTER POWER SUPPLY PANEL	TV	TELEVISION
		TVTC	TELEVISION TERMINAL CABINET
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
FCU	FAN COIL UNIT	UC	UNDER COUNTER
FIXT	FIXTURE	UE	UNDERGROUND ELECTRICAL
FLR	FLOOR	UG	UNDERGROUND
FLUOR	FLUORESCENT	UH	UNIT HEATER
FPC	FIRE PROTECTION CONTRACTOR	UT	UNDERGROUND TELEPHONE
FU	FUSE	UTIL	UTILITY
FUDS	FUSED SAFETY DISCONNECT SWITCH	UV	ULTRAVIOLET
GA	GAUGE	V	VOLT
GAL	GALLON	VA	VOLT-AMPERES
GALV	GALVANIZED	VDT	VIDEO DISPLAY TERMINAL
GC	GENERAL CONTRACTOR	VERT	VERTICAL
GEN	GENERATOR	VFD	VARIABLE FREQUENCY DRIVE
GFI	GROUND FAULT CIRCUIT INTERRUPTER	VOL	VOLUME
GFP	GROUND FAULT PROTECTOR	W	WATT
GND	GROUND	W/	WITH
GYP BD	GYPSUM BOARD	WG	WIRE GUARD
HWC-#	DOMESTIC WATER CIRCULATING PUMP	WH	WATER HEATER
HOA	HANDS-OFF-AUTOMATIC SWITCH	W/O	WITHOUT
H	INSTALL DEVICE HORIZONTALLY	WP	WEATHERPROOF
HH	HANDHOLE	XFMR	TRANSFORMER
HP	HORSEPOWER	XFR	TRANSFER
HPF	HIGH POWER FACTOR	#"	LOCATION-SPECIFIC MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTERLINE OF DEVICE
HT	HEIGHT		
HTG	HEATING		
HTR	HEATER		
HV	HIGH VOLTAGE	∠	ANGLE
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	@	AT
		▲	DELTA
IC	INTERRUPTING CAPACITY	'	FEET
IG	ISOLATED GROUND	"	INCHES
IMC	INTERMEDIATE METAL CONDUIT	#	NUMBER
INCAND	INCANDESCENT	Ø	PHASE
IR	INFRARED	C	CENTER LINE
I/W	INTERLOCK WITH	P	PLATE
J-BOX	JUNCTION BOX		
K.E.C.	KITCHEN EQUIPMENT CONTRACTOR		
KV	KILOVOLT		
KVA	KILOVOLT-AMPERE		
KVAR	KILOVOLT-AMPERE REACTIVE		
KW	KILOWATT		
KWH	KILOWATT HOUR		
LT	LIGHT		
LTG	LIGHTING		

BREAKER FUNCTION SCHEDULE

SYMBOL	DESCRIPTION
A	ARC FAULT INTERUPTER (AFCI)
AR	ARC ENERGY REDUCTION MAINTENANCE SWITCH
E	EXISTING BREAKER TO REMAIN
EM	PROVIDE IDENTIFICATION PER NEC 700.12(I)(2)(4)
EN	EXISTING BREAKER SERVING NEW CIRCUIT
G	GROUND FAULT CIRCUIT INTERUPTER (GFCI) PROTECTION (5mA)
GE	GROUND FAULT CIRCUIT INTERRUPTER FOR EQUIPMENT (30mA)
GF	ADJUSTABLE GROUND FAULT PROTECTION FOR EQUIPMENT
HL	HANDLE LOCK TO LOCK BREAKER IN CLOSED POSITION
K#	KEY INTERLOCK (# REPRESENTS GROUPED KEYING)
LSI	LONG-TIME, SHORT-TIME, INSTANTANEOUS ADJUSTMENT
LSIG	LONG-TIME, SHORT-TIME, INSTANTANEOUS ADJUSTMENT, AND GROUND FAULT ADJUSTMENT
LSIA	LONG-TIME, SHORT-TIME, INSTANTANEOUS ADJUSTMENT, AND GROUND FAULT ALARM
N	NEW BREAKER IN EXISTING PANEL
NE	NEW BREAKER SERVING EXISTING CIRCUIT
SD	DENOTE SERVICE DISCONNECT
ST	SHUNT TRIP (120V OPERATED UNLESS NOTED OTHERWISE)

EQUIPMENT/DEVICE HOME RUN KEY

1. BRANCH CIRCUIT WIRING SHALL BE #12AWG UNLESS NOTED OTHERWISE ON THE PLAN OR IN THE SCHEDULES.
2. AS A MINIMUM, USE 10 AWG CONDUCTOR FOR 20 AMPERE, 120 VOLT BRANCH CIRCUIT HOME RUNS LONGER THAN 100 FEET AND 277 VOLT BRANCH CIRCUIT HOME RUNS LONGER THAN 200 FEET.
3. REFER TO SPECIFICATION SECTION 260519 FOR ADDITIONAL REQUIREMENTS.



GENERAL PLAN SYMBOLS

MARK	SCHEDULED EQUIPMENT (UNDERLINED)
MARK	NONSCHEDULED EQUIPMENT
(E) MARK	EXISTING EQUIPMENT - (E) PREFIX (HALFTONE)
(R) MARK	EXISTING RELOCATED EQUIPMENT - (R) PREFIX
# / #	SECTION VIEW, TOP REPRESENTS DETAIL NUMBER, BOTTOM REPRESENTS SHEET NUMBER
# / #	ENLARGED VIEW, TOP REPRESENTS VIEW NUMBER, BOTTOM REPRESENTS SHEET NUMBER
	NEW WORK BY THE EC (DARK SOLID LINE)
	NEW UNDERGROUND WORK BY THE EC (DARK DASHED LINE)
	WORK BY OTHERS AND/OR EXISTING (LIGHT SOLID LINE)
	DEMO WORK BY THE EC (DARK DASHED LINE)
	MATCHLINE
X	KEYED NOTE
	LIGHTING CONTROL CALLOUT SYMBOL (DIAMOND)
1	ELECTRICAL EQUIPMENT SYMBOL (OCTAGON)

GENERAL ELECTRICAL SYMBOLS

J	ELECTRICAL CONNECTION
EPO	EMERGENCY STOP PUSH BUTTON
KPM	DIGITAL POWER METER
PP	AUTOMATIC DOOR PUSH PAD
	PANELBOARD
	UTILITY TRANSFORMER
	SWITCHBOARD
T	TRANSFORMER
	DISCONNECT SWITCH
	UTILITY POWER METER
	COMBINATION STARTER
	ELECTRICAL EQUIPMENT (DASHED LINES INDICATE CODE REQUIRED CLEARANCES)
	GROUND BAR
HH-#	HAND HOLE

POWER SYMBOLS

SYMBOL	DESCRIPTION
	DUPLEX / DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, EMERGENCY POWER
	DUPLEX / DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R
CD CR	CORD REEL / CORD DROP
	SIMPLEX RECEPTACLE, NEMA 5-20R
	SPECIAL RECEPTACLE
	RECESSED FLOOR BOX OR POKE-THRU
	CEILING MOUNTED RECEPTACLE, NEMA 5-20R
	SURFACE MOUNT MULTI-OUTLET ASSEMBLY
H $	HORSE POWER RATED SWITCH

FIRE ALARM SYMBOLS

SYMBOL	DESCRIPTION
FAP	CONTROL PANEL
NEP	NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL
FAA	REMOTE ANNUNCIATOR PANEL
PIV	POST INDICATOR VALVE AND TAMPER SWITCH
PS	AIR PRESSURE SWITCH
TS	VALVE TAMPER SWITCH
FS	WATER FLOW SWITCH
BD BR	BEAM SMOKE REFLECTOR
BD BT	LINEAR BEAM SMOKE DETECTOR
SD	LINEAR BEAM SMOKE DETECTOR
DSD	DUCT SMOKE DETECTOR
RI	DUCT SMOKE DETECTOR REMOTE INDICATOR STATION
H	HEAT DETECTOR ADDRESSABLE
LHD	LINEAR HEAT DETECTION CABLE
F	ADDRESSABLE FIRE ALARM MANUAL PULL STATION
SD	SMOKE DETECTOR
#	AUDIO/VISUAL NOTIFICATION APPLIANCE, CEILING MOUNTED
#	VISUAL NOTIFICATION APPLIANCE, CEILING MOUNTED
	SPEAKER NOTIFICATION APPLIANCE, CEILING MOUNTED
#	SPEAKER/VISUAL NOTIFICATION APPLIANCE, CEILING MOUNTED
A	HORN NOTIFICATION APPLIANCE, WALL MOUNTED
#	AUDIO/VISUAL NOTIFICATION APPLIANCE, WALL MOUNTED
S	SPEAKER NOTIFICATION APPLIANCE, WALL MOUNTED
S #	SPEAKER/VISUAL NOTIFICATION APPLIANCE, WALL MOUNTED
	VISUAL NOTIFICATION APPLIANCE, WALL MOUNTED
AM	ADDRESSABLE MONITOR MODULE
AR	ADDRESSABLE RELAY MODULE
	MAGNETIC DOOR HOLDER
HD	HVAC ELEVATOR HOISTWAY DAMPER
SD	HVAC SMOKE DAMPER
ZAM	ZONE ADAPTER MODULES
CO	CO DETECTOR
VCC	VOICE COMMAND CENTER
DCD	DUCT CO DETECTOR
B	BELL
	HIGH FIDELITY SPEAKER - CEILING MOUNT
S	HIGH FIDELITY SPEAKER - WALL MOUNT
ASD	AIR SAMPLING SMOKE DETECTOR
FSD	FIRE SMOKE DAMPER

LIGHTING SYMBOLS

SYMBOL	DESCRIPTION
	CRITICAL FIXTURE (FULL SHADED)
	LIFE SAFETY (HALF SHADED)
	RECESSED MOUNTED (DIAGONAL SLASH)
	SURFACE MOUNTED
	SURFACE OR PENDANT FIXTURE (DOTS)
	POLE MOUNTED SITE FIXTURE
	RECESSED DOWNLIGHT (ARROW INDICATES WALL WASH)
	EMERGENCY LIGHT
	SINGLE / DOUBLE FACED EXIT SIGN
	EMERGENCY REMOTE HEAD (SINGLE/DOUBLE)
	COMBINATION EXIT/EMERGENCY LIGHT
	WALL MOUNTED FIXTURE (STEM OR STEMS)
	CYLINDRICAL FIXTURE (ARROW INDICATES WALL WASH)

LIGHTING CONTROL SYMBOLS

SYMBOL	DESCRIPTION
$	WALL SWITCH
OM	CEILING MOUNT SENSOR, DUAL TECHNOLOGY
IR	CEILING MOUNT SENSOR, INFRARED TECHNOLOGY
UR	CEILING MOUNT SENSOR, ULTRASONIC TECHNOLOGY
PC	PHOTOCELL

GENERAL NOTES

1. ALL INSTALLATIONS SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES INCLUDING, BUT NOT LIMITED TO, THE FLORIDA BUILDING CODES, AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES, AND THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC). THE AUTHORITY HAVING JURISDICTION (AHJ) SHALL HAVE FINAL APPROVAL OF ALL INSTALLATIONS AND PRACTICES.
2. ALL MATERIALS FURNISHED SHALL BE NEW, FREE OF DEFECTS, AND LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) UNLESS NOTED OTHERWISE.
3. INSTALLATION OF EQUIPMENT SHALL COMPLY WITH CURRENT STANDARDS AND SPECIFICATIONS APPROVED BY THE AHJ. INSTALL ALL CABLES AND WIRING IN CONDUIT OR RACEWAY UNLESS NOTED OTHERWISE. DO NOT SUPPORT CABLES OR WIRING FROM CEILING DEVICES, PIPING, DUCTWORK, OR CEILING FRAMING. PROVIDE NEW WIRING FOR ALL BRANCH CIRCUITS AND FEEDERS.
4. FEEDERS SHOWN ON DRAWINGS ARE SCHEMATIC ONLY. CONDUIT RUNS SHALL NOT INCLUDE BENDS GREATER THAN 90 DEGREES. CONDUITS ABOVE GRADE SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES AND STRUCTURE.
5. CIRCUIT WIRING FOR THE EMERGENCY SYSTEM SHALL BE INSTALLED IN SEPARATE CONDUITS OR RACEWAYS AND SHALL REMAIN COMPLETELY INDEPENDENT OF ALL OTHER WIRING AND EQUIPMENT PER NEC REQUIREMENTS.
6. ALL FEEDER AND BRANCH CIRCUITS TO PANELS, MOTORS, LIGHT FIXTURES, RECEPTACLES, AND GENERAL DISTRIBUTION EQUIPMENT SHALL INCLUDE AN EQUIPMENT GROUNDING CONDUCTOR SIZED PER THE NEC. THE CONDUIT SYSTEM SHALL NOT BE USED AS AN EQUIPMENT GROUND.
7. REFER TO MECHANICAL AND PLUMBING EQUIPMENT SCHEDULES FOR EQUIPMENT CONNECTIONS, DISCONNECT REQUIREMENTS, AND CONTROLS. THE ELECTRICAL CONTRACTOR (EC) SHALL PROVIDE AND INSTALL ALL ITEMS INDICATED AS "BY EC" ON THE MECHANICAL AND PLUMBING SCHEDULES.
8. ALL WIRING AND FEEDER SIZES SHOWN ARE BASED ON COPPER CONDUCTORS UNLESS NOTED OTHERWISE. USE OF ALUMINUM FEEDER CONDUCTORS SHALL REQUIRE ENGINEER REVIEW OF FAULT CURRENT AND VOLTAGE DROP PRIOR TO INSTALLATION.
9. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL SYSTEMS AND ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS TO MAINTAIN NEC-REQUIRED CLEARANCES, INCLUDING WORKING CLEARANCES AT ELECTRICAL DISTRIBUTION EQUIPMENT AND INSTALLATIONS ABOVE ACCESSIBLE CEILINGS.
10. CONDUIT FOR POWER WIRING MAY BE INSTALLED BELOW FLOOR SLABS UNLESS NOTED OTHERWISE. RACEWAYS FOR LOW-VOLTAGE CABLING (CONTROLS, TELECOMMUNICATIONS, ETC.) SHALL NOT BE INSTALLED BELOW OR WITHIN FLOOR SLABS UNLESS SPECIFICALLY NOTED. WHERE LOW-VOLTAGE CABLING IS ROUTED BELOW OR WITHIN SLABS, CONTRACTOR SHALL VERIFY CABLING IS LISTED FOR SUCH USE.
11. ALL ELECTRICAL CONDUCTORS SHALL BE STRANDED COPPER WITH TYPE THWN/THWN INSULATION UNLESS NOTED OTHERWISE. MINIMUM WIRE SIZE SHALL BE #12 AWG FOR GENERAL WIRING AND #10 AWG FOR HOMERUNS. REFER TO SPECIFICATIONS OR SHEET-SPECIFIC NOTES FOR ADDITIONAL INFORMATION.
12. ALL NEW CIRCUITS REQUIRING NEUTRAL CONDUCTORS SHALL HAVE DEDICATED NEUTRALS. SHARED NEUTRALS ARE NOT PERMITTED.
13. A GREEN EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED TO ALL LOADS. THE CONDUCTOR SHALL BE SIZED PER THE NEC. ALL GROUNDING CONDUCTORS SHALL BE INSTALLED IN CONDUIT.
14. ALL BUILDING WIRING SHALL BE INSTALLED IN CONDUIT TO ACHIEVE CIRCUITING AS SHOWN. MINIMUM BRANCH CONDUIT SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE. SIZE CONDUCTORS PER NEC AMPACITY AND CONDUIT FILL REQUIREMENTS.
15. ALL HOME RUN CONDUITS FROM ELECTRICAL PANELBOARDS TO THE FIRST JUNCTION BOX SHALL BE A MINIMUM OF 1" CONDUIT AND SHALL TERMINATE IN A 4-11/16" SQUARE BY 2-1/8" DEEP (MINIMUM) JUNCTION BOX. JUNCTION BOX COVERS SHALL BE PAINTED AND CLEARLY MARKED WITH CIRCUIT NUMBERS. EACH HOME RUN RACEWAY SHALL HAVE SPARE CAPACITY FOR ONE (1) ADDITIONAL CIRCUIT AND ITS DEDICATED NEUTRAL.
16. MC CABLING SHALL NOT BE USED UNLESS SPECIFICALLY NOTED OTHERWISE.
17. ALL CONDUITS SHALL BE CONCEALED IN WALLS, ABOVE CEILINGS, ETC., WHERE POSSIBLE.
18. ALL CONDUIT ROUTED EXPOSED IN FINISHED SPACES SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO WALLS AND CEILINGS. EXPOSED CONDUIT ROUTING SHALL BE REVIEWED WITH THE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.
19. COORDINATE THE EXACT LOCATION OF ALL DEVICES ABOVE OR BELOW COUNTERTOPS OR SIMILAR INSTALLATIONS WITH OTHER TRADES, ARCHITECTURAL ELEVATIONS, AND APPROVED SUBMITTALS PRIOR TO ROUGH-IN. ARCHITECTURAL ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER ELECTRICAL DRAWINGS.
20. ALL CUTTING AND PATCHING REQUIRED FOR CONDUITS, DEVICES, OR OTHER ELECTRICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.
21. ALL PENETRATIONS THROUGH FIRE-RATED WALLS, FLOORS, AND CEILINGS SHALL BE SEALED WITH AN NRTL-APPROVED FIRESTOP SYSTEM EQUAL TO OR EXCEEDING THE RATING OF THE PENETRATED ASSEMBLY.
22. COORDINATE LOCATIONS OF ALL ELECTRICAL ITEMS INCLUDING, BUT NOT LIMITED TO, LIGHTING FIXTURES, CEILING-MOUNTED DEVICES (OCCUPANCY SENSORS, FIRE ALARM DEVICES, SPEAKERS, ETC.), SPRINKLER HEADS, AND HVAC DIFFUSERS/RETURNS. CENTER DEVICES IN CEILING TILES WHERE POSSIBLE.
23. ALL CEILING DEVICES REQUIRING WIRE TERMINATIONS SHALL BE INSTALLED WITH MANUFACTURER-RECOMMENDED BACK BOXES AND SUPPORTS AS REQUIRED BY THE NEC OR MANUFACTURER.
24. COORDINATE ALL MOUNTING OF ELECTRICAL MATERIALS, EQUIPMENT, AND DEVICES REQUIRED FOR EQUIPMENT SUPPLIED BY OTHERS. ELECTRICAL INSTALLATIONS SHALL NOT INTERFERE WITH OPERATION OR ACCESS. ALL SUCH INSTALLATIONS SHALL BE REVIEWED AND APPROVED BY THE SUPPLYING CONTRACTOR PRIOR TO ROUGH-IN.
25. BOXES LOCATED ON OPPOSITE SIDES OF FIRE-RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" OR SHALL BE PROTECTED WITH A FIRE-RATED MATERIAL EQUAL TO OR GREATER THAN THE WALL RATING.
26. BOXES LOCATED ON OPPOSITE SIDES OF NON-FIRE-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6".
27. REMOVE AND REINSTALL CEILING TILES AS NECESSARY TO PERFORM REQUIRED ELECTRICAL WORK. REPLACE ALL DAMAGED CEILING TILES WITH NEW TILES OF THE SAME MANUFACTURER AND MODEL.
28. PROVIDE FIELD TYPED PANELBOARD DIRECTORIES TO REFLECT AS-CONSTRUCTED CONDITIONS.
29. ALL REQUESTS FOR CHANGE PROPOSALS SHALL INCLUDE DETAILED BREAKDOWNS OF MATERIALS, LABOR, AND SUBCONTRACTOR COSTS. SUPPLIER QUOTES SHALL BE PROVIDED ON SUPPLIER LETTERHEAD. LABOR UNITS FOR NEW MATERIAL INSTALLATIONS SHALL NOT EXCEED 75% OF NECA 1 "NORMAL CONDITION" RATES WITHOUT SPECIFIC APPROVAL.

ELECTRICAL SHEET LIST

ET000	ELECTRICAL COVER PAGE
ES101	ELECTRICAL BID KEY SITE PLAN
ES102	ELECTRICAL SITE LIGHTING PLAN
ES103	ELECTRICAL SITE PHOTOMETRIC PLAN
ELT100	ELECTRICAL LIGHTING PLAN
EMT100	MECHANICAL POWER PLAN
EPT100	ELECTRICAL POWER PLAN
EPT300	ELECTRICAL ROOF PLAN
EYT100	ELECTRICAL SYSTEMS PLAN
ET500	ELECTRICAL DETAILS
ET501	ELECTRICAL DETAILS
ET502	ELECTRICAL DETAILS
ET600	ELECTRICAL SCHEDULES

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ELECTRICAL COVER PAGE ET000

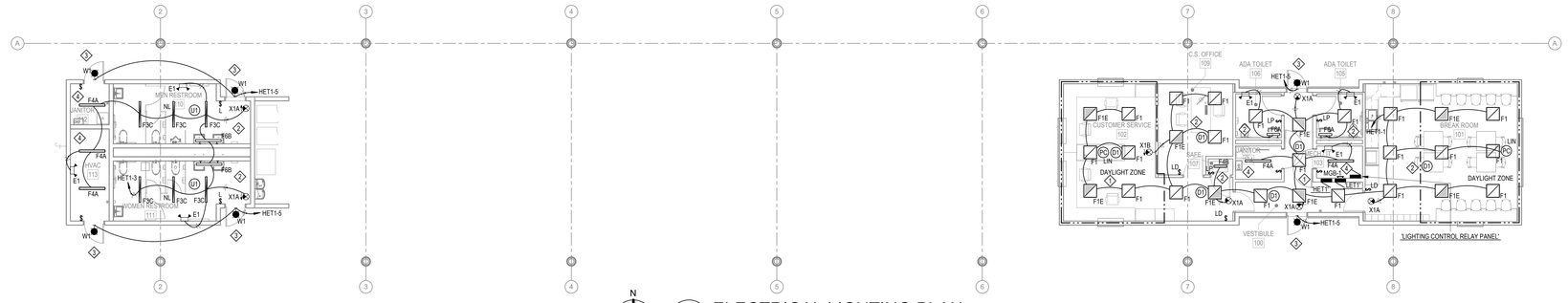
LIGHTING CONTROLS	
TYPE	**DESCRIPTION**
1	AUTO ON / AUTO OFF AFTER 20 MINUTES OF BEING UNOCCUPIED
2	FIXTURES TO BE AUTO ON TO 50% AND MANUAL ON TO 100% / AUTO OFF AFTER 20 MINUTES OF BEING UNOCCUPIED
3	EXTERIOR LIGHTING TO TURN 'ON' AT DUSK, TURN 'OFF' AT DAWN.
4	MANUAL ON, MANUAL OFF DUE TO SAFETY CONCERNS

GENERAL NOTES:

1. ALL EXTERIOR LIGHTING SHALL BE CONTROLLED FROM A SINGLE LOCATION WITHIN THE BUILDING ON A TIMER WITH A PHOTOCELL OVERRIDE AS PART OF THE CAMPUS BUILDING LIGHTING CONTROL SYSTEM. VERIFY FINAL TIMING OF EXTERIOR LIGHTING CONTROLS WITH OWNER.
2. NOT USED.

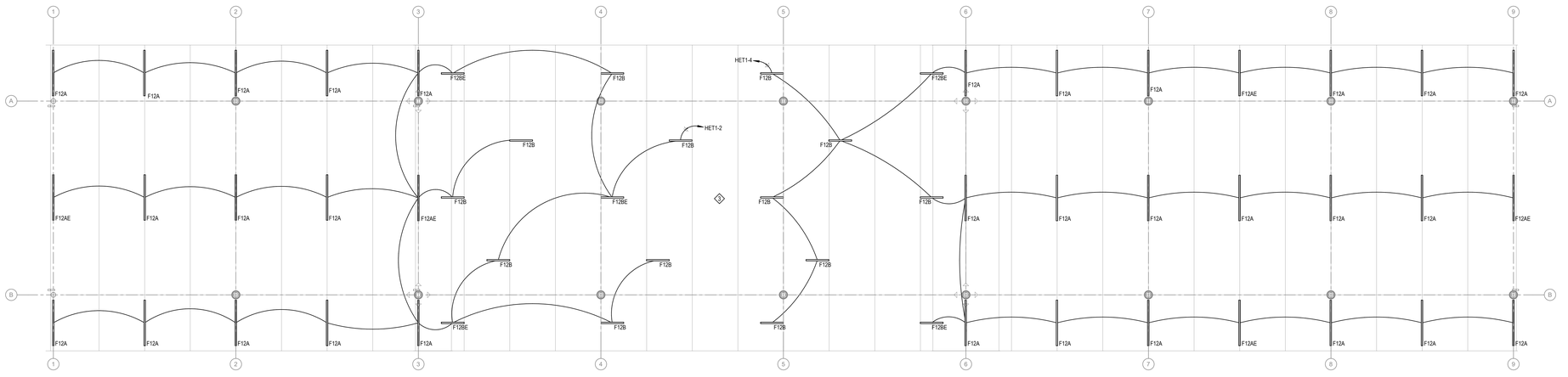
NOTES:

1. LIGHTING CONTROLS SHALL MEET INTERNATIONAL ENERGY CONSERVATION CODE (IECC 2021).
2. THE SWITCHES AND OCCUPANCY SENSORS SHOWN IN A ROOM SHALL CONTROL ALL LIGHTING ZONES IN THE ROOM UNLESS NOTED IN THE OTHER WITH A SUBSCRIPT ON THE SWITCH OR OCCUPANCY SENSORS.
3. LIGHTING WITHIN ROOMS SHALL BE CONTROLLED BY THE DEVICES SHOWN WITHIN THE ROOM UNLESS NOTED OTHERWISE WITHIN THIS NARRATIVE.
4. ALL FIXTURES WITHIN 15' OF EXTERIOR FENESTRATION SHALL UTILIZE DAYLIGHT HARVESTING ZONE IN ACCORDANCE WITH THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC). FIXTURES WITHIN ZONE SHALL ALSO BE CONTROLLED BY OCCUPANCY SENSORS AND SWITCHES LOCATED IN THE ROOM AS INDICATED ON DRAWINGS.
5. SUBSCRIPTS INDICATED ON PLANS SUCH AS 'a', 'b', ETC. INDICATE A MULTIZONE ROOM. THE CORRESPONDING SWITCHES IN ROOM FOR ZONE LABELED WITH THE SAME SUBSCRIPT SHALL CONTROL THAT ZONE.
6. IF NO SUBSCRIPTS ARE SHOWN WITHIN A ROOM, ALL LIGHTS WITHIN THAT ROOM WILL BE CONTROLLED AS A SINGLE ZONE.
7. PROVIDED 0-10V CONTROL WIRING TO ALL LUMINAIRES SERVES BY 0-10V DIMMING DEVICES.



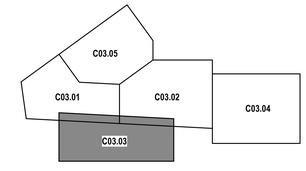
N

1 ELECTRICAL LIGHTING PLAN
1/8" = 1'-0"



N

2 ELECTRICAL CANOPY FLOOR LIGHTING PLAN
1/8" = 1'-0"



KEY MAP

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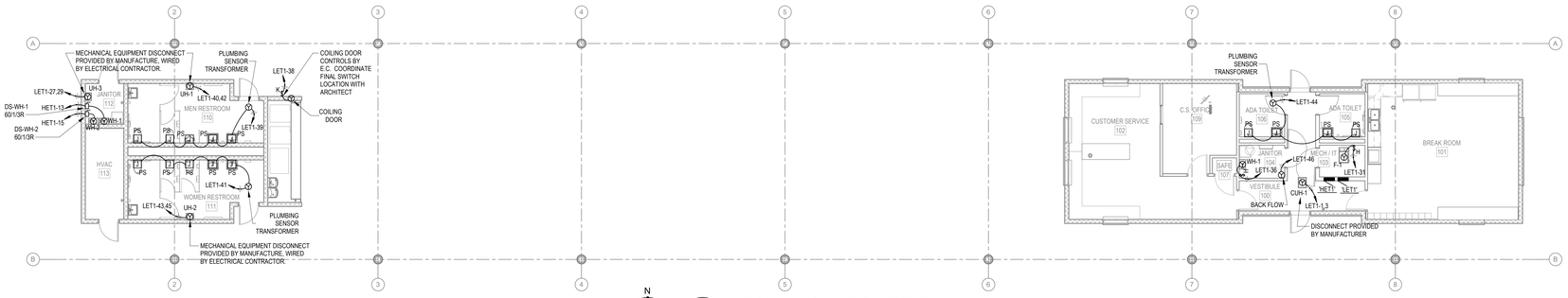
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PROJECT NO.	2613
STATUS	BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE	10/22/2026
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ELECTRICAL LIGHTING PLAN **ELT100**

GENERAL NOTES:

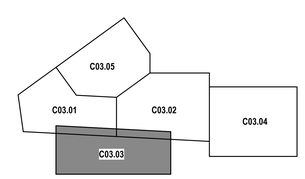
1. COORDINATE FINAL POWER LOCATION OF PLUMBING SENSOR TRANSFORMER FOR EASY MAINTENANCE ACCESS TO PRIOR ROUGH-IN (TYPICAL).
2. PLUMBING SENSOR TRANSFORMER CORD AND PLUG DISCONNECT. REFER TO PLUMBING SCHEDULE FOR ADDITIONAL INFORMATION.



N

1 MECHANICAL POWER PLAN

1/8" = 1'-0"



KEY MAP

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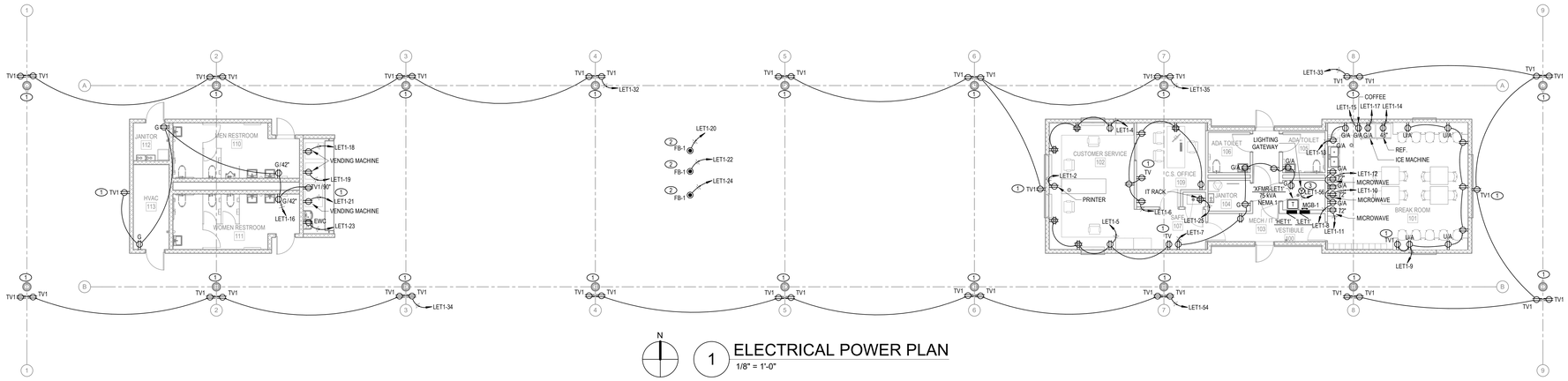
Revisions

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STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
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MECHANICAL POWER PLAN **EMT100**

KEYED NOTES:

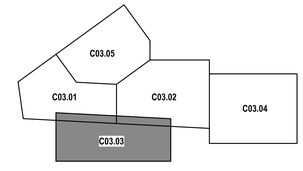
1. ELECTRICAL CONTRACTOR TO COORDINATE FINAL MOUNTING HEIGHT OF TV POWER WITH TECHNOLOGY PLANS PRIOR TO ROUGH-IN.
2. COORDINATE FINAL LOCATION WITH ARCHITECTURAL PLANS
3. GATEWAY CONNECTION FOR EXTERIOR LIGHTING CONTROL. NETWORK BACK TO EXTERIOR PHOTOCELL ON MAINTENANCE BUILDING FOR CAMPUS CONTROL



N

1 ELECTRICAL POWER PLAN

1/8" = 1'-0"



KEY MAP

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ELECTRICAL POWER PLAN **EPT100**

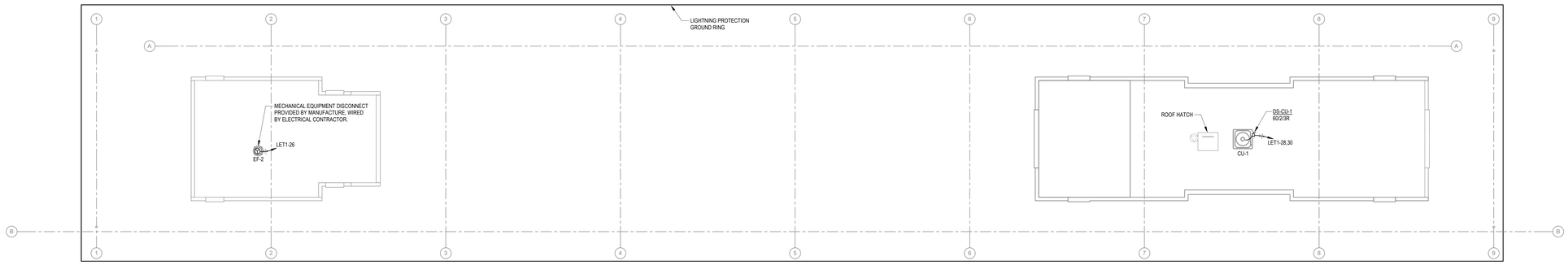
GENERAL ELECTRICAL SCHEDULE		
⏚	GROUND ROD LOCATION	CAT. NO 10T COPPER BONDING WIRE (1# STR., X 17 GA.)

KEYED NOTES:

1. REFER TO 5/TT500 FOR WIRELESS ACCESS POINT DETAIL.
2. REFER TO 3/TT500 FOR WALL RACK ELEVATION DETAIL.

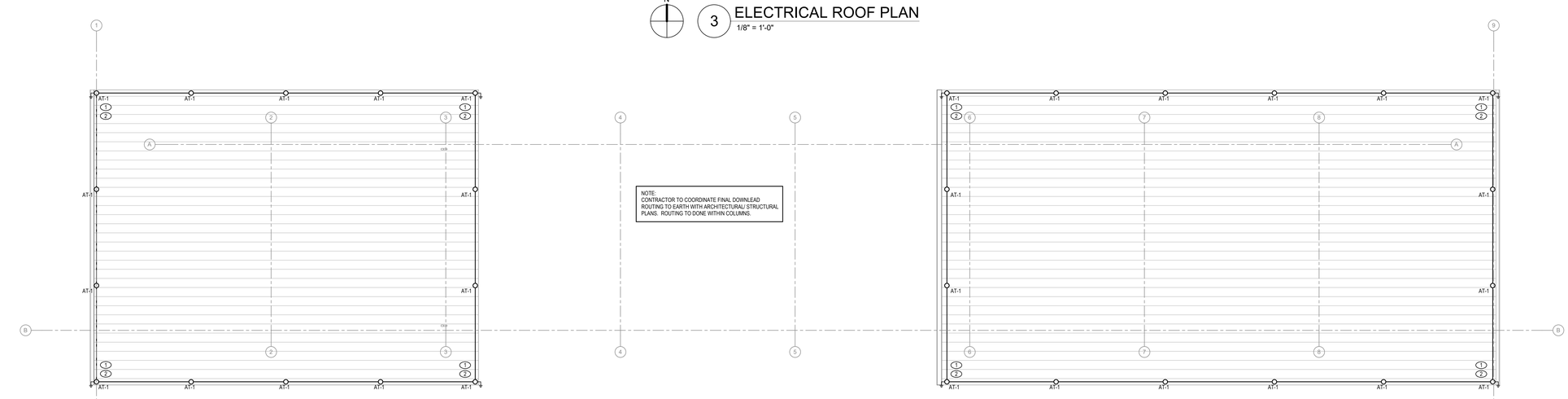
NOTES:

1. REFER TO E4502 FOR LIGHTNING PROTECTION INSTALLATION DETAILS.
2. ALL LIGHTNING PROTECTION DOWN CONDUCTORS SHALL BE ROUTED WITHIN BUILDING WALL, COLUMNS AND UTILITY CHASES. CONCEALED CONDUCTORS SHALL BE INSTALLED IN NONMETALIC PVC SLEEVES WHERE PASSING THROUGH FLOORS, WALLS AND FOUNDATIONS. BOND ALL METALLIC SYSTEMS WITHIN SIDE-FLASH DISTANCE IN ACCORDANCE WITH NFPA 780. FIRESTOP ALL PENETRATIONS THROUGH RATED ASSEMBLIES WITH LISTED FIRE STOP SYSTEMS.
3. ALL CONDUCTORS SHALL BE COPPER.
4. THE DESIGN & DETAILS SHOWN WILL MEET THE REQUIREMENTS OF UNDERWRITERS LABORATORY CODE 96/96A, NATIONAL FIRE PROTECTION ASSOCIATION CODE 780 & THE LIGHTNING PROTECTION INSTITUTE CODE 175 FOR LIGHTNING PROTECTION SYSTEMS.
5. A CONDUCTOR BEND SHALL NOT FORM A SHARPER ANGLE THAN 90 DEGREES OR HAVE RADIUS LESS THEN 8 INCHES.
6. METAL BODIES OF INDUCTANCE LOCATED WITHIN 6' OF A MAIN LIGHTNING COMPONENT SHALL BE BONDED TO THE LIGHTNING PROTECTION SYSTEM. (INCLUDING BUT NOT LIMITED TO METAL VENTS, FLASHING, LOUVERS & ROOF DRAINS).
7. CONNECTIONS TO GROUND AND/ OR COUNTERPOISE SHALL BE MADE AT A POINT NOT LESS THAN 2'-0" BELOW GRADE, AND 3'-0" TO 8'-0" AWAY FROM FOUNDATION WALL.
8. AIR TERMINAL SHALL BE PLACED AT THE LOCATIONS INDICATED, NOT MORE THAN 2'-0" FROM THE ENDS OF RIDGES, OUTSIDE CORNERS, OR OUTSIDE EGRESS OF MAIN ROOFS, AND MUST EXTEND A MINIMUM OF 10" ABOVE THE OBJECTS TO BE PROTECTED.
9. MID-ROOF AIR TERMINALS SHALL BE SPACED AT 40'-0" O.C. MAX. SPACING.
10. PERIMETER AIR TERMINALS THAT ARE LESS THAN 24" IN HEIGHT SHALL BE SPACED AT 20'-0" O.C. MAX PERIMETER AIR TERMINALS THAT AREA 24" IN HEIGHT OR GREATER SHALL BE SPACED AT 25'-0" O.C. MAX.
11. JOB CONDITIONS MAY DICTATE SLIGHT VARIATIONS IN AIR TERMINAL AND GROUND ROD LOCATIONS, BUT IN NO INSTANCE SHALL A VARIATION BREAK COMPLIANCE WITH THESE NOTES AND REQUIREMENTS.
12. CONDUCTORS SHALL MAINTAIN A HORIZONTAL OR DOWNWARD PATH FREE FROM "U" AND "V" POCKETS. ANY RISE IN CONDUCTOR SHALL BE NO STEEPER THAN 3" OF RISER PER 12" OF RUN.
13. COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE PLACED ON ALUMINUM, GALVANIZED, OR BARE GALVANIZED STEEL SURFACES. ALUMINUM MATERIALS SHALL NOT BE PLACED ON COPPER SURFACES.
14. FOR THE SAKE OF CLARITY EACH INDIVIDUAL ITEM OF LIGHTNING PROTECTION MATERIALS IS NOT CALLED OUT ON THE ROOF PLAN. SHOWN ARE TYPICAL DETAILS AND HAVE CALLED OUT EACH OF THESE DETAILS ON THE ROOF PLAN, ONLY IN SCATTERED LOCATIONS.
15. ALL MISCELLANEOUS STEEL INCLUDING BUT NOT LIMITED TO STRUCTURAL STEEL, REBAR, FRAMING & RAILINGS, SHALL BE MADE ELECTRICALLY CONTINUOUS THROUGH CONSTRUCTION (NOT THE RESPONSIBILITY OF THE LIGHTNING PROTECTION CONTRACTOR).
16. ELECTRIC, TELEPHONE, ANTENNA SYSTEM, AND OTHER MISCELLANEOUS GROUNDING SHALL BE CONNECTED WITH MAIN SIZED CONDUCTOR TO ANY LIGHTNING PROTECTION GROUND.
17. A LIGHTNING ARRESTOR, PROTECTOR, OR ANTENNA-DISCHARGE UNIT MUST BE INSTALLED ON EACH ELECTRIC AND TELEPHONE SERVICE ENTRANCE AND RADIO AND TELEVISION ANTENNA LEAD IN. (TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR);
18. ALL ADHESIVE FIXTURES SHALL BE SET WITH AN ADHESIVE COMPOUND COMPATIBLE WITH ROOFING MATERIAL. ADHESIVES SHALL BE APPROVED IN ADVANCE BY THE ROOFING CONTRACTOR.
19. BOND ALL METAL PIPES SUCH AS WATER, GAS, FIRE, STORM, SEWER WHICH ENTER THE STRUCTURE TO THE NEAREST DOWNLOAD, GROUND ROD OR COUNTERPOISE.
20. SEAL THE ENDS OF CONDUIT MOISTURE TIGHT WITH DUCT SEAL, SILICONE OR LEAD WEDGES (NOT THE RESPONSIBILITY OF THE LIGHTNING PROTECTION CONTRACTOR).
21. CABLE MUST BE FASTENED EVERY 3'-0" O.C. MAXIMUM.
22. THE LIGHTNING PROTECTION INSTALLER IS TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE THE WORK IS STARTED. INSTALLERS WHO FAIL TO VERIFY, REVIEW, AND COORDINATE THE WORK SHALL TAKE FULL RESPONSABILITY FOR THE WORK AND ANY PORTION OF THE WORK THAT IS IMPROPERLY INSTALLED OR LOCATED. THE INSTALLER SHALL NOTIFY THE DESIGNER IF DIMENSIONAL ERRORS OR DESIGN CONFLICTS OCCUR, AND SHALL PROCEED ONLY UPON CLARIFICATION OR REVISION AS ISSUED BY ROBBINS LIGHTNING, INC.
23. ALL LIGHTNING PROTECTION SYSTEMS REQUIRE PROPERLY INSTALLED SURGE PROTECTIVE DEVICES AS OUTLINED IN PARAGRAPH 13 OF UL 96A.
24. WHERE POSSIBLE, SECURELY INSERT CABLE INTO EXISTING SPLICER OR POINT BASE TO CONSERVE SPLICERS.
25. PICTURES NEED TO BE TAKEN WHERE BONDS ARE GOING TO BE CONCEALED OR BURIED SUCH AS WATER, GAS, & ELECTRIC BONDS; GROUND RODS; THRU WALLS & THRU ROOFS. (INTERIOR PICTURES).
26. THIS SYSTEM INCLUDES BONDING TO GAS PIPING PER CURRENT CODES. IF "CSST" GAS PIPING IS PRESENT, CURRENT PRACTICE MAY BE INADEQUATE TO PREVENT FLASHOVER FROM THE LIGHTNING PROTECTION SYSTEM. BONDING METHODS ARE UNDER CODE REVIEW. THE LIGHTNING PROTECTION MANUFACTURER, INSTALLER, LPI AND LPI-IP ACCEPT NO LIABILITY DUE TO LACK OF CONSENSUS ON MEASURES REQUIRED TO PREVENT DAMAGE, INJURY, OR LOSS DUE TO "CSST" FAILURES.
27. ALL ADDITIONAL GROUNDING SHALL BE PROVIDED & INSTALLED BY OTHERS. I.E.: TRANSFORMER, BUS-BAR, ETC.



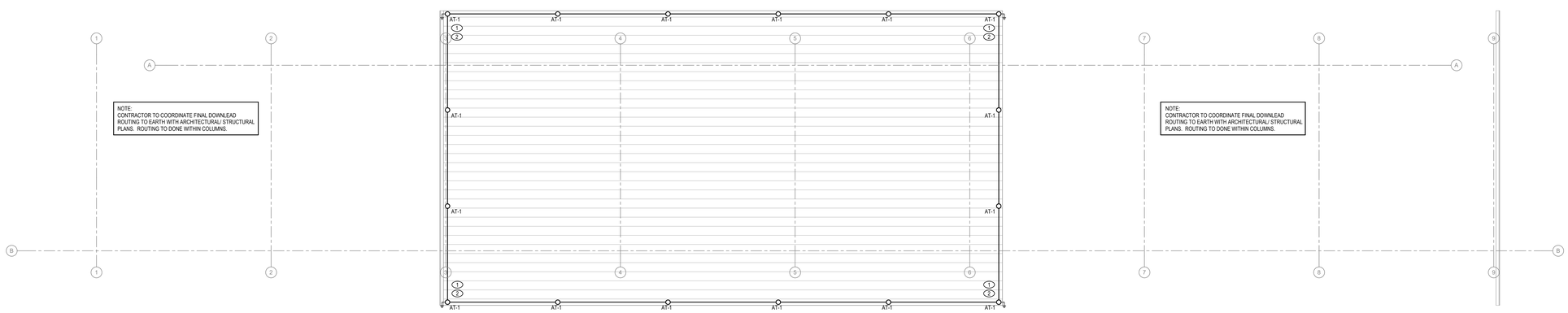
N

3 ELECTRICAL ROOF PLAN
1/8" = 1'-0"



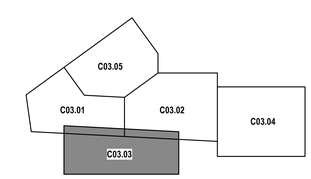
N

2 ELECTRICAL LOWER CANOPY PLAN
1/8" = 1'-0"



N

1 ELECTRICAL UPPER CANOPY PLAN
1/8" = 1'-0"



KEY MAP

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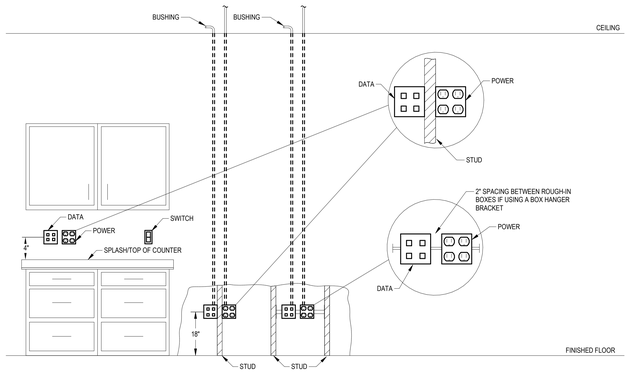
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Revisions

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ELECTRICAL ROOF PLAN **EPT300**

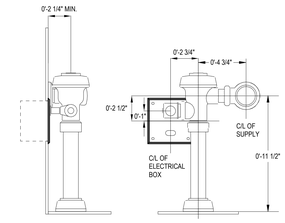


8 SCHEMATIC ELECTRICAL MOUNTING

N.T.S.

NOTES:

1. SOME DEVICES SHOWN MAY NOT BE USED. DETAIL IS NOT TO SCALE.
2. MOUNTING HEIGHTS ARE AS SHOWN IN THIS DETAIL UNLESS NOTED OTHERWISE ON THE FLOORPLAN.
3. TYPICAL FOR POWER AND DATA IN THE SAME GENERAL LOCATION. POWER AND DATA ROUGH-IN TO BE MOUNTED ADJACENT TO EACH OTHER ON EITHER SIDE OF A STUD OR BETWEEN STUDS IF USING A BRACKET HANGER. IF USING A BRACKET HANGER, POWER AND DATA BOXES TO BE INSTALLED WITH A 2" SPACE BETWEEN THEM.
4. ALL DEVICES TO BE INSTALLED IN ACCORDANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO AHJ ADOPTED *NEC - INFORMATIVE ANNEX J* OR AHJ ADOPTED PUBLISHING OF *ADA STANDARDS FOR ACCESSIBLE DESIGN* FOR ADDITIONAL INFORMATION.

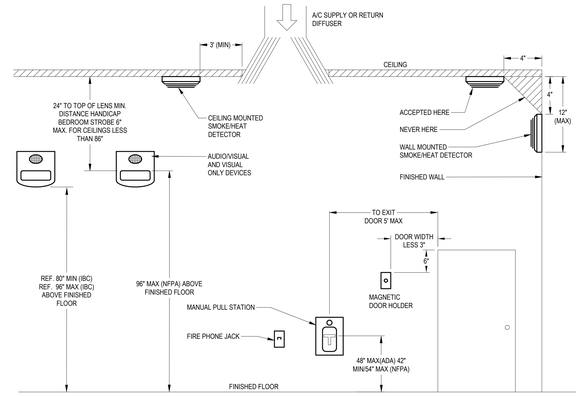


5 URINAL FLUSH VALVE ROUGH-IN

N.T.S.

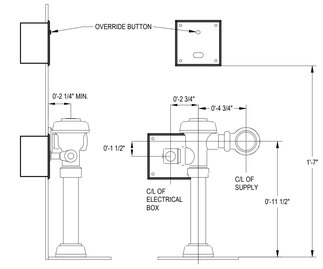
NOTES:

1. ROUGH-IN IS FOR A TYPICAL URINAL FLUSH VALVE. ACTUAL ROUGH-IN SHALL BE COORDINATED IN THE FIELD WITH THE APPROVED PLUMBING SHOP DRAWINGS AND THE VENDOR'S TEMPLATE AND/OR SUPPORT KIT.
2. FAILURE TO PROPERLY POSITION THE ELECTRICAL BOX TO THE PLUMBING ROUGH-IN WILL RESULT IN IMPROPER INSTALLATION AND IMPAIR PERFORMANCE.
3. ELECTRICAL ROUGH-IN SHALL BE A 4" SQUARE, 2-1/8" DEEP BOX WITH A TWO-GANG MUD RING. MUD RING SHALL BE INSTALLED WITH THE DEVICE SCREWS ON THE LEFT AND RIGHT SIDE OF THE BOX.
4. PROVIDE 120V CONNECTION TO THE LOW VOLTAGE TRANSFORMER, PROVIDED BY THE P.C., AND PROVIDE LV WIRING FROM THE TRANSFORMER TO THE UNIT, OR UNITS, PER THE APPROVED PLUMBING SHOP DRAWINGS. COORDINATE SENSOR LOCATION ABOVE THE CEILING TO ENSURE IT IS LOCATED IN AN ACCESSIBLE SPACE.



3 FIRE ALARM DEVICE MOUNTING HEIGHT

N.T.S.

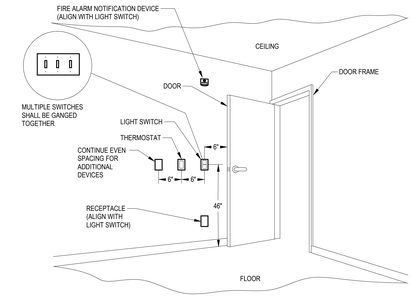


4 TOILET FLUSH VALVE ROUGH-IN

N.T.S.

NOTES:

1. ROUGH-IN IS FOR A TYPICAL TOILET FLUSH VALVE. ACTUAL ROUGH-IN SHALL BE COORDINATED IN THE FIELD WITH THE APPROVED PLUMBING SHOP DRAWINGS AND THE VENDOR'S TEMPLATE AND/OR SUPPORT KIT.
2. FAILURE TO PROPERLY POSITION THE ELECTRICAL BOXES TO THE PLUMBING ROUGH-IN WILL RESULT IN IMPROPER INSTALLATION AND IMPAIR PERFORMANCE.
3. ELECTRICAL ROUGH-INS SHALL BE A 4" SQUARE, 2-1/8" DEEP BOXES WITH A TWO-GANG MUD RING. MUD RING SHALL BE INSTALLED WITH THE DEVICE SCREWS ON THE LEFT AND RIGHT SIDE OF THE BOX.
4. POSITION OF THE SENSOR BOX CAN BE RAISED OR LOWERED 1" IF IN CONFLICT WITH HANDICAP GRAB BARS.
5. PROVIDE 120V CONNECTION TO THE LOW VOLTAGE TRANSFORMER, PROVIDED BY THE P.C., AND PROVIDE LV WIRING FROM THE TRANSFORMER TO THE UNIT, OR UNITS, PER THE APPROVED PLUMBING SHOP DRAWINGS. COORDINATE SENSOR LOCATION ABOVE THE CEILING TO ENSURE IT IS LOCATED IN AN ACCESSIBLE SPACE.



7 ROOM DEVICE MOUNTING ORTHOGRAPHIC

N.T.S.

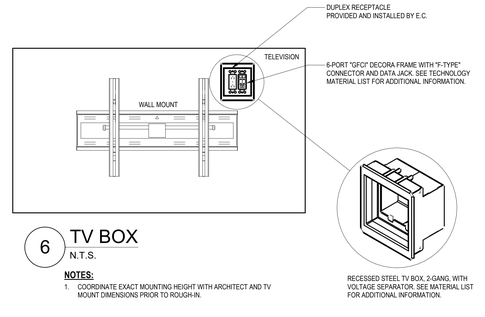
NOTES:

1. LIGHT SWITCH, THERMOSTAT, AND ADDITIONAL DEVICES TO BE MOUNTED ON WALL ADJACENT TO THE HINGE SIDE OF THE DOOR UNLESS NOTED OTHERWISE ON PLANS.
2. CENTER OF LIGHT SWITCH TO BE 6" FROM THE EDGE OF THE DOOR WHEN IN FULL OPEN POSITION.
3. IF LIGHT SWITCHES ARE LOCATED BACK TO BACK ON BOTH SIDES OF THE WALL, MOVE ONE TO THE NEXT AVAILABLE STUD CAVITY AWAY FROM THE DOOR AS NEEDED.
4. IF WALL PROTECTION IS PRESENT, DEVICES TO BE MOUNTED 42" A.F.F. RATHER THAN 46".
5. ALL DEVICES TO BE INSTALLED IN ACCORDANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO AHJ ADOPTED *NEC - INFORMATIVE ANNEX J* OR AHJ ADOPTED PUBLISHING OF *ADA STANDARDS FOR ACCESSIBLE DESIGN* FOR ADDITIONAL INFORMATION.

	SYSTEM OUTPUTS																
	FACP ANNUNCIATION						NOTIFICATION				REQUIRED FIRE SAFETY CONTROL						
SYSTEM INPUTS	A: ACTUATE COMMON ALARM SIGNAL INDICATOR	B: ACTUATE AUDIBLE ALARM SIGNAL	C: ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	D: ACTUATE AUDIBLE SUPERVISORY SIGNAL	E: ACTUATE COMMON TROUBLE SIGNAL INDICATOR	F: ACTUATE AUDIBLE TROUBLE SIGNAL	G: ACTUATE ZONE OR DEVICE ADDRESS ALARM INDICATOR	H: ACTUATE VISIBLE & AUDIBLE ALARM ANNUNCIATION	I: TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION	J: TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	K: TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION	L: RELEASE MAGNETICALLY HELD DOORS	M: ACTUATE WON DOOR CLOSURE	N: CLOSE SMOKE DAMPERS ASSOCIATED WITH SMOKE DETECTORS IN HVAC DUCTS	O: UNLOCK EXITS AND CONTROL DOORS	P: SHUT DOWN RESPECTIVE AIR HANDLING EQUIPMENT
1 FIRE ALARM SYSTEM AC POWER FAILURE					X	X					X						
2 FIRE ALARM SYSTEM LOW BATTERY					X	X					X						
3 OPEN CIRCUIT					X	X					X						
4 GROUND FAULT					X	X					X						
5 NOTIFICATION APPLIANCE CIRCUIT SHORT					X	X					X						
6 BUILDING MANUAL PULL STATIONS	X	X					X	X	X			X			X		
7 CORRIDOR SMOKE DETECTORS	X	X					X	X	X			X		X	X		
8 AREA SMOKE DETECTORS	X	X					X	X	X			X			X		
9 HVAC AIR DUCT SMOKE DETECTORS			X	X			X			X				X			X
10 AREA HEAT DETECTORS	X	X					X	X	X			X			X		
11																	
12																	

2 FIRE ALARM MATRIX

N.T.S.



6 TV BOX

N.T.S.

NOTES:

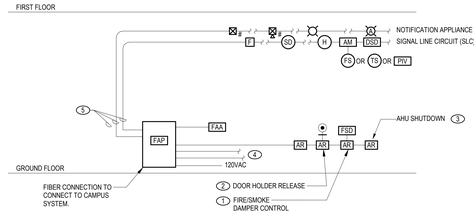
1. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT AND TV MOUNT DIMENSIONS PRIOR TO ROUGH-IN.

NOTES:

1. THE FIRE ALARM RISER DIAGRAM IS MEANT TO CONVEY THE GENERAL SCOPE OF WORK AND SHOULD NOT BE USED AS A DETAILED WIRING SCHEMATIC. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING QUANTITIES OF DEVICES AND CONTROL/MONITORING INTERFACES WITH OTHER BUILDING SYSTEMS (I.E. FIRE/SMOKE DAMPERS, AHU SHUT-DOWN, ELEVATOR CONTROLS, ETC.).
2. THE COMPLETE FIRE ALARM SYSTEM SHALL MEET ALL APPLICABLE CODES AS WELL AS THE FIRE ALARM SYSTEM MANUFACTURER'S RECOMMENDATIONS.
3. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL 120VAC CIRCUITS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM. THIS INCLUDES THE MAIN FIRE ALARM PANEL AS WELL AS ANY NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANELS. ALL 120VAC CIRCUIT BREAKERS SERVING FIRE ALARM EQUIPMENT SHALL BE PROVIDED WITH HANDLE LOCKS.
4. ALL FIRE ALARM WIRING SHALL BE INSTALLED EITHER IN EXISTING RACEWAY (WHERE AVAILABLE) OR FLOWN ABOVE THE FINISHED CEILING. ALL FLOWN CABLES SHALL BE PLENUM RATED AND SHALL BE SUPPORTED INDEPENDENT OF THE CEILING SYSTEM USING J-HOOKS AND OTHER APPROPRIATE SUPPORTS. COORDINATE CABLE TYPE REQUIREMENTS WITH THE FIRE ALARM SYSTEM MANUFACTURER.
5. MAINTAIN 3'-0" SEPARATION BETWEEN SMOKE DETECTORS AND HVAC DIFFUSERS.
6. ALL DEVICES SHALL BE FLUSH MOUNTED WHERE WALL AND CEILING CONSTRUCTION ALLOWS. IF FLUSH MOUNTING OF DEVICES IS NOT POSSIBLE, SURFACE MOUNT USING SURFACE BOXES AND WIREMOLD 700 SERIES METALLIC RACEWAY (OR EQUAL), PAINTED TO MATCH EXISTING FINISHES.

KEYED NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL CONNECT TO FIRE/SMOKE DAMPER CIRCUITS. EC SHALL FIELD VERIFY QUANTITY AND LOCATION OF NEW ADDRESSABLE RELAYS REQUIRED FOR FIRE/SMOKE DAMPER CONTROL.
2. THE ELECTRICAL CONTRACTOR SHALL CONNECT TO DOOR RELEASE CIRCUITS. EC SHALL FIELD VERIFY QUANTITY AND LOCATION OF NEW ADDRESSABLE RELAYS REQUIRED FOR DOOR RELEASE CONTROL.
3. THE ELECTRICAL CONTRACTOR SHALL CONNECT FIRE ALARM RELAYS TO AIR HANDLING UNIT CONTROLS FOR SHUT-DOWN PURPOSES. EC SHALL FIELD VERIFY QUANTITY AND LOCATION OF ADDRESSABLE RELAYS REQUIRED FOR AHU SHUT-DOWN CONTROL.
4. PROVIDE A FIBER OPTIC CONNECTION TO THE MASTER FIRE ALARM PANEL LOCATED IN THE MAINTENANCE BUILDING FOR CENTRALIZED MONITORING, SUPERVISION, ANNUNCIATION AND STATUS REPORTING OF ALL FIRE ALARM CONTROL PANELS. INDIVIDUAL DIALERS ARE NOT REQUIRED.
5. REFER TO SPECIFICATIONS FOR SIGNAL AND NOTIFICATION LOOP REQUIREMENTS.



1 ADDRESSABLE FIRE ALARM SYSTEM RISER

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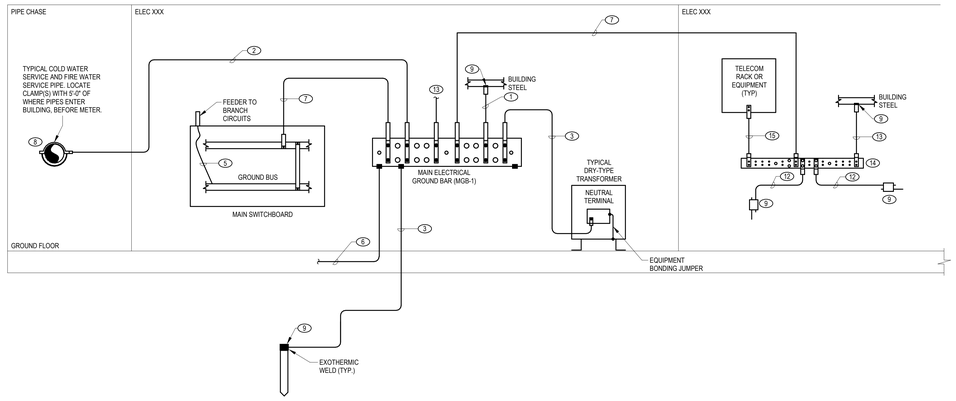
Revisions

PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
DRAWN BY ADG

ELECTRICAL DETAILS **ET500**

EQUIPMENT	KED-BSE DRAWINGS - DEVICE LOCATIONS	EQUIPMENT BY OWNER	INSTALLATION OF EQUIPMENT	INSTALLATION OF CABLE	ROUGH-IN AND PATHWAY INSTALLATION	COMMENTS
TELEPHONE SYSTEM		X	OWNER			VOIP SYSTEM (Using existing system)
WIRELESS ACCESS POINTS - EQUIPMENT	X	X	OWNER	SECURITY ENGINEERING	EC	OWNER TO PROVIDE EQUIPMENT (DESIGN STILL NEEDED FOR DROP LOCATIONS AND DATA INSTALLATION BY SECURITY ENGINEERING)
WIRELESS ACCESS POINT ROUGH-IN - (1) CAT 6 PLENUM CABLING	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
HORIZONTAL CABLING CAT6 PLENUM CABLE- PHONE/PRINTERS/FAX/ANALOG TYPE CABLE	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
HORIZONTAL CABLING CAT6 PLENUM FOR FLOOR BOX - NETWORK	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
HORIZONTAL CABLING CAT6 PLENUM - CAMERA	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
HORIZONTAL CABLING CAT6 PLENUM - NETWORK	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
TESTING - FIBER AND CAT6A AND LABELING	x		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
FIBER DISTRIBUTION CABINET	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
RACK HORIZONTAL MANAGER	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
RJ-45 JACKS AT WORKAREA AND IDF MODULAR PATCH PANEL	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
FACEPLATES	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
MODULAR PATCH PANEL	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
EQUIPMENT RACKS (4POST IN THE MDF AND 2POST IN IDF TYPE WITH VERTICAL /HORIZONTAL MANAGERS)	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
COPPER PATCH CORDS AT RACK	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
COPPER PATCH CORDS AT WORKSTATIONS	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
BACKBONE FIBER OPTIC CABLING -TERMINATIONS BETWEEN THE MDF AND IDF ROOMS	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
FIBER PATH CORDS	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
MDF/IDF ROOM - TELECOM TERMINAL BOARD, CONDUIT SLEEVES, OVERHEAD LADDER RACK AND GROUNDING BAR	X		EC	EC	EC	
NETWORK SWITCHES		X	BY OWNER	BY OWNER		EQUIPMENT TO BE PURCHASED BY OWNER
ROUTERS, MODEMS, PHONE EQUIPMENT, HANDSETS		X	BY OWNER	BY OWNER		EQUIPMENT TO BE PURCHASED BY OWNER
CONDUITS-J-BOXES					EC	
SERVICE PROVIDER CABLING TO THE MDF -NETWORK	X		UNITI	UNITI	EC	OWNER TO WORK WITH THERE PREFERRED INTEGRATOR AND COORDINATE ALL CONTRACTS OF ESTABLISHING SERVICE TO THE FACILITY
CONDUIT ROUTE FROM THE SERVICE PROVIDERS MEET ME POINT TO THE MDF IN ADMINISTRATION BUILDING. INCLUDES CONDUITS AND HANDHOLES INTO THE MDF/IDF ROOMS	X				EC	
WIRED BASKET TRAY	X				EC	
MASS NOTIFICATION / PAGING SPEAKERS - INTERIOR AND EXTERIOR	X	X	SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SPEAKERS TO BE INSTALLED BY OWNER AND DATA CABLE TO BE INSTALLED BY SECURITY ENGINEERING
MASS NOTIFICATION / PAGING SYSTEM HEADEND	X		OWNERS VENDOR	OWNERS VENDOR	EC	INTERGRATED WITH EXISTING NOTIFICATION SYSTEM (INFORMACAST)
ACCESS CONTROL PANEL - LENEL ONGUARD	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CARD READERS- DUAL AUTHENTICATIONS	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CODE BLUE STATIONS INTERCOM/CAMERA PEDESTALS -CODE BLUE	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
ELECTRIC LATCH/STRIKES -PROVIDED BY DOOR HARDWARE INTEGRATOR	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
DOOR CONTACT	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
LOCKDOWN	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
REQUEST TO EXIT	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
PANIC ALARM SWITCHES	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CCTV CAMERA SYSTEM - SOFTWARE, CAMERAS LICENSES, AND STORAGE -AVIGILON		X	S			TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CCTV MONITOR -VIEWING STATION 55" TV	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CCTV CAMERAS INTERIOR AND EXTERIOR - AVIGILON	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
AREA OF REFUGE MASTER HEADEND AND INTERCOM BUTTON AND WIRING	X		EC	EC	EC	
TV'S AND TV MOUNTS WITH BRIGHT SIGN DIGITAL MEDIA PLAYER -DIGITAL SIGNAGE LOCATIONS	X		EC	EC	EC	TRANSIT BUS MESSAGE BOARDS-ONLY -NO DIGITAL SIGNAGE LOCATIONS ANYWHERE ELSE FOR THE PROJECT
TRAINING ROOM AND CONFERENCE ROOM - FLOOR BOXES ONLY	X		EC	EC	EC	
TRAINING ROOM AV SYSTEM -TV'S TV MOUNTS, FRONT/REAR CAMERAS, AMPLIFER, SPEAKERS, VIDEO CONFERENCE INTERFACE (SOFT CODEC- TEAMS / ZOOM) (HDMI INPUT AND CONTROLS FRONT OF ROOM)	X		OWNERS VENDOR	OWNERS VENDOR	EC	OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
CONFERENCE ROOM AV SYSTEM -TV'S TV MOUNTS, FRONT CAMERAS, AMPLIFER, SPEAKERS, VIDEO CONFERENCE INTERFACE (SOFT CODEC- TEAMS / ZOOM) (HDMI INPUT AND CONTROLS AT CONFERENCE TABLE)	X		OWNERS VENDOR	OWNERS VENDOR	EC	OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
MEETING ROOM AV SYSTEM -CEILING PROJECTOR, CEILING PROJECTOR SCREEN, TV DISPLAYS FOR BACK OF HOUSE VIEWING, FRONT/REAR CAMERAS AMPLIFIER, SPEAKERS, VIDEO CONFERENCE INTERFACE (SOFT CODEC- TEAMS / ZOOM) (HDMI INPUT AND CONTROLS AT LECTURN)	X		OWNERS VENDOR	OWNERS VENDOR	EC	OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
TV'S AND TV MOUNTS WITH HDMI CABLING FOR PRESENTATION IN OFFICES TYPE-SIZE ROOMS -(RADIO, CALL CENTER, SAFETY OFFICER, ACCOUNTING, FINANCE, DIV MANAGER, DEPUTY DIRECTOR, DIRECTOR, MAINTENANCE SUPERVISOR, FACILITY MANAGER, AND FACILITY MANAGER)	X		EC	EC	EC	
INTERCOM CAMERA/DOOR STATION AND INTERCOM MASTER STATION AT GATE ENTRANCES AND ENTRANCES INTO FACILTY - AIPHONE	X		EC	EC	EC	
UPS	X		EC	EC	EC	
TIME CLOCK LOCATIONS (NETWORK CABLING) • ADMIN BUILDING: CORR 113 ON WALL OF ROOM AND ROOM 158 LOCKER RM(TWO CLOCKS) • MAINT BLDG: CORR 101 • TRANSFER CNTR: INSIDE DOOR OF BREAK RM ON WALL ON THE RIGHT SIDE.	X		OWNERS VENDOR	OWNERS VENDOR	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
PRINTER LOCATIONS (NETWORK CABLE) ADMIN BUILDING: OFFICE SUPPLIES 121, RECEPT 120, SAFETY HALLWAY, RECEPT 104, DISPATCH / RADIO ROOMS, CALL CENTER, MAINTENANCE BUILDING: MAINTENANCE SUPERVISOR OFFICE, ROOM123, TRANSFER BUILDING: CUSTOMER SERVICE ARA, AND ADMIN BUILDING ROOM 104 AND 105	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CATV JACKS: ADMIN BUILDING ROOMS -DIR RM 124, DEPUTY DIR RM 125, DIV MAN RM 126, FIN RM 127, ACCNT RM 128, CONF RM 129, TRAIN RM 102, CHIEF SAFETY RM 140, SAFETY MAN RM 106, DISPATCH RM 151,RADIO RM 152 & 153, CALL CNTR RM 155, MEET RM 201. MAINT BLDG: BREAK RM 102, FACILITY MAN RM 104, MAIN MAN RM 122. TRANSFER CENTER: CUSTOMER WAITING RM, CUST SERV RM 339, AND BREAK RM 347	X		EC	EC	EC	
RADIO ROOM EQUIPMENT/ANTENNA LOCATIONS THE TWO RADIO ROOMS IN THE ADMIN BUILDING ARE THE ONLY ROOMS THAT WILL GET RADIOS INSTALLED.						**EQUIPMENT TO BE RELOCATED FROM EXISTING LOCATION. OWNERS VENDOR (CES) TO RELCOATE/RE-INSTALL/TEST EQUIPMENT**
CATV SYSTEM HORIZONTAL CABLE TO THE NEAREST MDF/IDF-NO SPLITTER, COUPLERS, OR TAPS	X		EC	EC	EC	
AMPLFIERS	X		EC	EC	EC	

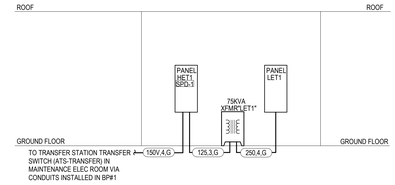
3 TECHNOLOGY RESPONSIBILITY MATRIX
N.T.S.



2 GROUNDING RISER DIAGRAM
N.T.S.

GENERAL NOTES:
1. SEAL ANY HOLES IN EXTERIOR WALLS OR FOUNDATIONS. FINISH TO MATCH SURFACE.
2. SEE PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. ALL CONDUCTORS TO BE ROUTED IN CONDUIT UNLESS NOTED OTHERWISE.
4. REFER TO T-SERIES DRAWINGS FOR MORE INFORMATION ON GROUND BAR(S).

KEYED NOTES:
1. BUILDING STEEL GROUNDING ELECTRODE CONDUCTOR.
2. WATER SERVICE BONDING CONDUCTOR.
3. GROUNDING ELECTRODE CONDUCTOR AND ASSOCIATED GROUND RODS.
4. NOT USED.
5. EQUIPMENT GROUND CONDUCTOR; SIZE PER NEC TABLE 250.122 OR AS SHOWN ON THE PLANS.
6. CONCRETE ENCASED ELECTRODE. MINIMUM 20'-0" LENGTH.
7. MAIN GROUND BAR BONDING CONDUCTOR: #3/0 COPPER MINIMUM OR AS SHOWN ON THE PLANS.
8. PROVIDE #2/0 COPPER JUMPER OVER WATER METER AND GROUND STRAPS FOR WATER PIPING.
9. UL LISTED EXOTHERMIC OR PERMANENT COMPRESSION STYLE CONNECTION.
10. MAIN COPPER GROUNDING ELECTRODE CONDUCTOR; SIZE PER NEC TABLE 250.66 OR AS SHOWN ON THE PLANS (#2/0 MINIMUM).
11. FURNISH AND INSTALL COUNTERPOISE SYSTEM GROUND ROD USING AN EXOTHERMIC CONNECTION. VERIFY THAT SERVICE GROUND IMPEDANCE IS LESS THAN 5 OHMS.
12. INTERCONNECTING BONDING CONDUCTOR; #3/0 COPPER MINIMUM OR AS SHOWN ON THE PLANS.
13. BONDING CONDUCTOR; #6 COPPER WITH GREEN INSULATION.
14. GROUND BAR. REFER TO DRAWINGS AND GENERAL ELECTRICAL SCHEDULE FOR MORE INFORMATION.
15. BONDING CONDUCTOR BETWEEN GROUND BAR AND DATA RACK. #6 COPPER WITH GREEN INSULATION. CONDUCTOR IS NOT REQUIRED TO BE IN CONDUIT.



PANEL FEEDER SCHEDULE - COPPER						
CALL OUT	OCPD RATING	PARALLEL SETS	PHASE	NEUTRAL	GRD	CONDUIT
125,3.G	125	1	#1	#1	#6	1-1/2"
150V,4.G	150	1	#3/0	#3/0	#6	2"
250,4.G	250	1	250KCM	250KCM	#4	2-1/2"

1 ELECTRICAL RISER DIAGRAM
N.T.S.

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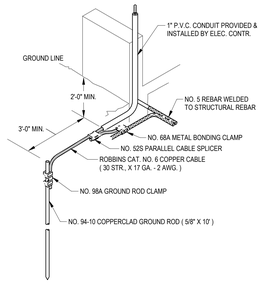
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No.	Revisions

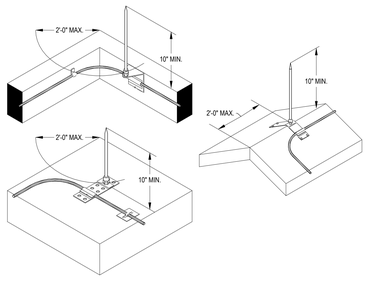
PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
DRAWN BY ADG

ELECTRICAL DETAILS **ET501**



10 REBAR BOND & GROUNDING CONNECTION DETAIL

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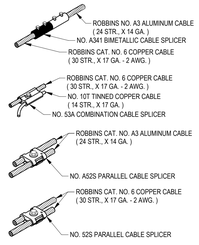


9 PLACEMENT OF AIR TERMINAL ON OUTSIDE CORNERS

N.T.S.

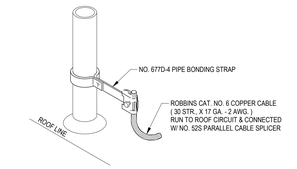
NOTES:

1. AIR TERMINALS MUST BE WITHIN 2' FROM AN OUTSIDE CORNER AS INDICATED, THIS WOULD APPLY TO ALL SITUATIONS. PARAPETS, FLAT ROOFS, METAL UNITS, ETC.



8 SPLICER DETAIL

N.T.S.

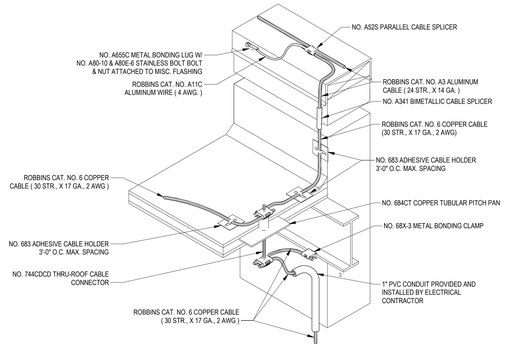


7 ROOF VENT DETAIL

N.T.S.

NOTES:

1. METAL V.T.R. WITHIN 6' OF A L.P. CONDUCTOR BOND AS SHOWN - FIELD VERIFY THE EXACT LOCATION

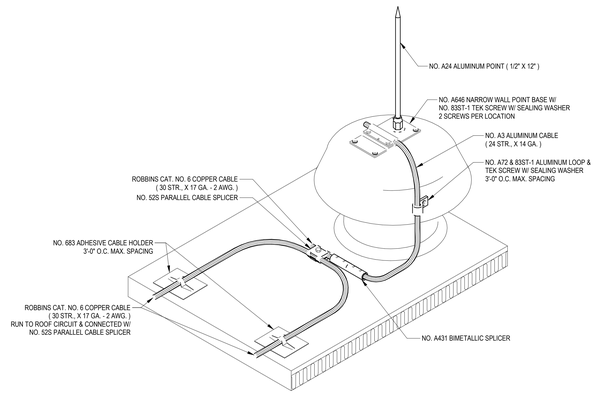


6 LASHING BOND, THRU ROOF, STEEL BOND & DOWNLEAD

N.T.S.

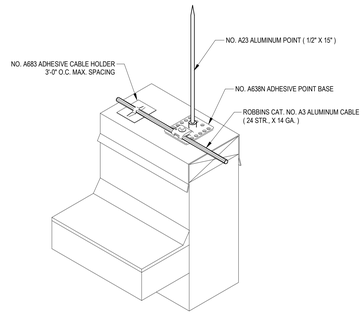
NOTES:

1. ROOFING CONTRACTOR TO INSTALL & SEAL ROOFING PENETRATIONS
2. ROOFING CONTRACTOR TO INSTALL PITCH PAN ON TOP OF INSULATION
3. A MINIMUM OF 2" OF THREADED ROD MUST BE LEFT ABOVE TOP OF PITCH PAN



5 EXHAUST FAN / MECHANICAL AIR TERMINAL

N.T.S.

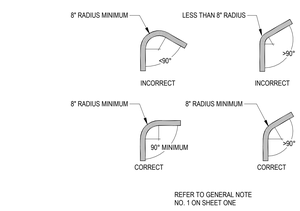


3 ADHESIVE BASE AIR TERMINAL DETAIL

N.T.S.

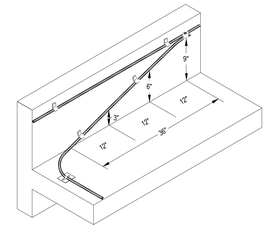
NOTES:

1. POINT BASE & CABLE HOLDER WILL BE SET WITH ADHESIVE COMPOUND COMPATIBLE TO ROOFING MATERIAL. ANY SPECIAL PADS, STRIPS, PAVER BLOCKS, ETC. TO BE SUPPLIED AND INSTALLED BY THE ROOFING CONTRACTOR.



2 ACCEPTABLE CABLE BEND DETAIL

N.T.S.



1 3 TO 12 CABLE RISER ELEVATION

N.T.S.

CABLE MAY RUN UPHILL FROM BONDING OR AIR TERMINAL LOCATIONS NOT TO EXCEED A RATE OF 3" OF RISE PER 12" OF RUN. FASTEN CABLE EVERY 3'-0" O.C. MAXIMUM.

KED bluestone
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Johnston, IA 50131
515-727-0700
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PROJECT NUMBER: 13x105
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100 E. BLOUNT ST. PENSACOLA, FL 32501

Revisions

PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
DRAWN BY ADG

ELECTRICAL DETAILS **ET502**

BRANCH PANELBOARD: HET1

LOCATION: | **VOLTAGE:** 480/277 Wye | **MAIN DEVICE:** MCB 150A
MOUNTING: RECESSED | **PHASE:** 3 | **BUS RATING:** 150
ENCLOSURE: NEMA 1 | **WIRE:** 4 | **NEUTRAL RATING:** 100%
FED FROM: SWG-1 | **LUGS:** Standard | **A.I.C. RATING:** 25000

CKT #	CKT BKR A / P	NOTES	CIRCUIT DESCRIPTION	KVA LOAD "PHASE A"		KVA LOAD "PHASE B"		KVA LOAD "PHASE C"		CIRCUIT DESCRIPTION	NOTES	CKT BKR P / A	CKT #
1	20 A	1	LIGHTING	1.1	1.9					LIGHTING		1 20 A	2
3	20 A	1	LIGHTING			0.4	2.3			LIGHTING		1 20 A	4
5	20 A	1	LIGHTING					0.1	0.6	SITE LIGHTING		1 20 A	6
7				13.1	0.9					SITE LIGHTING		1 20 A	8
9	125 A	3	XFMR-LET1			24.9	0						10
11								22	0	SPD-1		3 30 A	12
13	60 A	1	WH-1	12.5	0								14
15	60 A	1	WH-2			12.5	0			SPARE		1 20 A	16
17	20 A	1	SPARE					0	0	SPARE		1 20 A	18
19	20 A	1	SPARE	0	0					SPARE		1 20 A	20
21	20 A	1	SPARE			0	0			SPARE		1 20 A	22
23	20 A	1	SPARE					0	0	SPARE		1 20 A	24
25	20 A	1	SPARE	0	0					SPARE		1 20 A	26
27	20 A	1	SPARE			0	0			SPARE		1 20 A	28
29	20 A	1	SPARE					0	0	SPARE		1 20 A	30
31	20 A	1	SPARE	0	0					SPARE		1 20 A	32
33	20 A	1	SPARE			0	0			SPARE		1 20 A	34
35	20 A	1	SPARE					0	0	SPARE		1 20 A	36
37	--	1	SPACE	--	0					SPARE		1 20 A	38
39	--	1	SPACE			--	--			SPACE		1 --	40
41	--	1	SPACE					--	--	SPACE		1 --	42
			TOTAL CONNECTED KVA BY PHASE	29.2 kVA		39.8 kVA		22.7 kVA					
			TOTAL CONNECTED AMPS BY PHASE	109 A		147.4 A		82 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED LOAD	PANELBOARD TOTALS
HVAC	46883 VA	100.00%	46883 VA	
Lighting	5514 VA	100.00%	5514 VA	**TOTAL CONNECTED KVA** 91.7 kVA
Other	180 VA	100.00%	180 VA	**TOTAL CALCULATED KVA** 80.3 kVA
Receptacle	32960 VA	65.17%	21480 VA	
Spare	6500 VA	100.00%	6500 VA	**TOTAL CONNECTED AMPS** 110.3 A
Power	0 VA	0.00%	0 VA	**TOTAL CALCULATED AMPS** 96.6 A
Lighting - Interior	168 VA	125.00%	211 VA	

NOTES:

BRANCH PANELBOARD: LET1

LOCATION: | **VOLTAGE:** 208/120 Wye | **MAIN DEVICE:** MCB 250A
MOUNTING: RECESSED | **PHASE:** 3 | **BUS RATING:** 250
ENCLOSURE: NEMA 1 | **WIRE:** 4 | **NEUTRAL RATING:** 100%
FED FROM: XFMR-LET1 | **LUGS:** Standard | **A.I.C. RATING:** 10000

CKT #	CKT BKR A / P	NOTES	CIRCUIT DESCRIPTION	A		B		C		CIRCUIT DESCRIPTION	NOTES	CKT BKR P / A	CKT #
1	30 A	2	CUH-1	1.9	0.5					RECEPTACLE		1 20 A	2
3						1.9	0.9			RECEPTACLE		1 20 A	4
5	20 A	1	RECEPTACLE					1.1	1.3	RECEPTACLE		1 20 A	6
7	20 A	1	RECEPTACLE	1.3	0.5					RECEPTACLE		1 20 A	8
9	20 A	1	RECEPTACLE			1.4	1.8			RECEPTACLE		1 20 A	10
11	20 A	1	RECEPTACLE					1.8	1.8	RECEPTACLE		1 20 A	12
13	20 A	1	RECEPTACLE	0.4	0.8					RECEPTACLE		1 20 A	14
15	40 A	1	RECEPTACLE			3.8	1.1			RECEPTACLE		1 20 A	16
17	20 A	1	RECEPTACLE					1.2	1.4	RECEPTACLE	G	1 20 A	18
19	20 A	1 G	RECEPTACLE	1.4	0.2					RECEPTACLE		1 20 A	20
21	20 A	1 G	RECEPTACLE			1.4	0.2			RECEPTACLE		1 20 A	22
23	20 A	1 G	RECEPTACLE					1.4	0.2	RECEPTACLE		1 20 A	24
25	20 A	1	RECEPTACLE	0.4	0.2					EF-2		1 20 A	26
27	20 A	2	UH-3			1.7	3			CU-1		2 40 A	28
29								1.7	3				30
31	20 A	1	F-1	0.2	1.4					RECEPTACLE	G	1 20 A	32
33	20 A	1 G	RECEPTACLE			1.6	1.1			RECEPTACLE	G	1 20 A	34
35	20 A	1 G	RECEPTACLE					1.3	0.6	WH-1		1 20 A	36
37	20 A	1 HL	FIRE ALARM CONTROL PANEL	0.2	0.5					COILING DOOR		1 20 A	38
39	20 A	1	PLUMBING SENSOR TRANSFORMER			0.1	1.7			UH-1		2 20 A	40
41	20 A	1	PLUMBING SENSOR TRANSFORMER					0.1	1.7				42
43	20 A	2	UH-2	1.7	0.1					PLUMBING SENSOR TRANSFORMER		1 20 A	44
45						1.7	0.2			BACK FLOW		1 20 A	46
47	20 A	2	MOTORIZED GATE					1	0.2	CAMERA POWER		1 20 A	48
49				1	0.2					CAMERA POWER		1 20 A	50
51	20 A	2	MOTORIZED GATE			1	0.2			CAMERA POWER		1 20 A	52
53								1	1.4	RECEPTACLE	g	1 20 A	54
55	20 A	1	CAMERA POWER	0.2	0.2					HVAC		1 20 A	56
57	20 A	1	CAMERA POWER			0.2	0			SPARE		1 20 A	58
59	20 A	1	SPARE					0	0	SPARE		1 20 A	60
61	20 A	1	SPARE	0	0					SPARE		1 20 A	62
63	20 A	1	SPARE			0	0			SPARE		1 20 A	64
65	20 A	1	SPARE					0	0	SPARE		1 20 A	66
67	20 A	1	SPARE	0	0					SPARE		1 20 A	68
69	20 A	1	SPARE			0	0			SPARE		1 20 A	70
71	20 A	1	SPARE					0	0	SPARE		1 20 A	72
			TOTAL CONNECTED KVA BY PHASE	13.1 kVA		24.9 kVA		22 kVA					
			TOTAL CONNECTED AMPS BY PHASE	109.4 A		218.5 A		195.1 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	CALCULATED LOAD	PANELBOARD TOTALS
HVAC	21883 VA	100.00%	21883 VA	
Lighting	0 VA	0.00%	0 VA	**TOTAL CONNECTED KVA** 60 kVA
Other	180 VA	100.00%	180 VA	**TOTAL CALCULATED KVA** 48.5 kVA
Receptacle	32960 VA	65.17%	21480 VA	
Spare	5000 VA	100.00%	5000 VA	**TOTAL CONNECTED AMPS** 166.6 A
Power	0 VA	0.00%	0 VA	**TOTAL CALCULATED AMPS** 134.7 A

NOTES:

GENERAL ELECTRICAL SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER
M	CONNECTION TO MECHANICAL EQUIPMENT	MOTOR/EQUIPMENT FURNISHED AND INSTALLED BY MECHANICAL OR PLUMBING CONTRACTOR
J	ELECTRICAL CONNECTION TO MISC. EQUIPMENT	EQUIPMENT FURNISHED AND INSTALLED BY OTHERS
PANEL 'HET1'	BRANCH CIRCUIT PANELBOARD, 480/277V, 3-PHASE, 4-WIRE, NEMA 1 HOUSING, REFER TO PANEL SCHEDULES FOR DETAILS	SQUARE D NF OR PREAPPROVED EQUAL
PANEL 'LET1'	BRANCH CIRCUIT PANELBOARD, 208/120V, 3-PHASE, 4-WIRE, NEMA 1 HOUSING, REFER TO PANEL SCHEDULES FOR DETAILS	SQUARE D NQ OR PREAPPROVED EQUAL
XFMR-LET1	DRY-TYPE TRANSFORMER, DOE 2016 COMPLIANT, 75 KVA, 480V PRIMARY, 208/120V SECONDARY, 6 TAPS (2+, 4-), ALUMINUM WINDINGS, 150 DEGREE C TEMP RISE, MOUNT ON 3-1/2" CONCRETE HOUSEKEEPING PAD	SQUARE D EXN75T3H OR PREAPPROVED EQUAL
SPD-1	SURGE PROTECTION DEVICE, EXTERNALLY MOUNTED NON-MODULAR BRICK, 480/277 V, 3-PHASE, 4-WIRE + GRD SERVICE, 200 KAIC SURFE CURRENT RATING PER PHASE, 200K SCCR, SUITABLE FOR SERVICE ENTRANCE DOWNSTREAM OF SERVICE DISCONNECT, UL 1449 TYPE 2, ANSI/EEE C62.41 CATEGORY C	SQUARE D SURGELOGIC EMB SERIES OR PREAPPROVED EQUAL
DS-XXX A/B/C	DISCONNECT SWITCH, HEAVY DUTY, SIZE INDICATED ON PLANS (A/B/C) WHERE A = RATING IN AMPS, B = NUMBER OF POLES, C = NEMA RATING (E.G. 1 = NEMA 1), XXX = NAME OF LOAD SERVED	SQUARE D CLASS 3110 OR PREAPPROVED EQUAL
FDS-XXX A/B/C/D	FUSIBLE DISCONNECT SWITCH, HEAVY DUTY, SIZE INDICATED ON PLANS (A/B/C) WHERE A = RATING IN AMPS, B = NUMBER OF POLES, C = NEMA RATING (E.G. 1 = NEMA 1), D = FUSE SIZE IN AMPS, XXX = NAME OF LOAD SERVED, PROVIDE FUSES OF RATING PER MFR RECOMMENDATION	SQUARE D CLASS 3110 OR PREAPPROVED EQUAL
LIGHTING RELAY PANEL 'XXX'	LIGHTING RELAY PANEL, FEED-THRU TYPE, (8) 20A/1P RATED RELAYS, EXTERIOR PHOTO CELL INPUT, REFER TO SPECIFICATION 260943. SERVES EXTERIOR BUILDING-MOUNTED LIGHTING AND PARKING AREA LIGHTS	WATTSTOPPER DLM ACUITY NLIGHT OR PREAPPROVED EQUAL
MGB-1	MAIN GROUND BAR, WALL MOUNTED	REFER TO SPECIFICATION 260526
AT-1	24" LIGHTNING PROTECTION AIR TERMINAL, REFER TO SPECIFICATION	REFER TO SPECIFICATION
AT-2	8" LIGHTNING PROTECTION AIR TERMINAL, REFER TO SPECIFICATION	REFER TO SPECIFICATION

FLOOR BOX / POKE THRU SCHEDULE

SUBSCRIPT	DESCRIPTION	MODEL
FB-1	SQUARE RECESSED FLOOR BOX. ABOVE GROUND OR ON-GRADE CONCRETE POUR INSTALLATIONS. FOUR GANG STEEL HOUSING CONCRETE POUR OF 3.5" TO 5.75", (1) 1" CONDUIT FOR POWER, (1) 1-1/4" CONDUIT FOR TELECOMMUNICATIONS, (1) 1-1/4" CONDUIT FOR AV CABLING. TWO DUPLEX RECEPTACLES (NEMA 5-20R), EXTEND TELECOMMUNICATIONS CONDUIT TO ABOVE ACCESSIBLE CEILING, EXTEND A/V CONDUIT TO A/V EQUIPMENT LOCATION. FLOOR CONSTRUCTION: CONCRETE COVER FINISH: BRUSHED NICKEL	BOX: WIREMOLD RFBA-OC COVER: WIREMOLD FPB(C)

NEMA 5-20R RECEPTACLE SUBSCRIPT SCHEDULE

SUBSCRIPT	DESCRIPTION	MODEL
U	DUPLEX TAMPER RESISTANT RECEPTACLE WITH USB CHARGING, ONE TYPE A AND ONE TYPE C USB 3.0 OUTLET WITH 5 AMP CHARGING POWER AT 5 VDC, TAMPER RESISTANT, NEMA 5-20R	HUBBELL USB20AC5 LEVITON PASS & SEYMOUR COOPER
TV1	WEATHERPROOF STEEL TV BOX, WHITE COVER PLATE, COORDINATE EXACT MOUNTING LOCATION WITH AV CONTRACTOR PRIOR TO INSTALLATION. REFER TO TECHNOLOGY DRAWINGS FOR TV ROUGH-IN DETAIL	ARLINGTON COVER - DVFRC ARLINGTON RECESSED 2 GANG STEEL BOX - TVBS505 FACEPLATE 2 GANG
TV	STEEL RECESSED TV BOX, WHITE COVER PLATE, COORDINATE EXACT MOUNTING LOCATION WITH AV CONTRACTOR PRIOR TO INSTALLATION. REFER TO TECHNOLOGY DRAWINGS FOR TV ROUGH-IN DETAIL.	ARLINGTON COVER - DVFRC ARLINGTON RECESSED 2 GANG STEEL BOX - TVBS505 FACEPLATE 2 GANG
NO SUBSCRIPT	DOUBLE DUPLEX TAMPER RESISTANT RECEPTACLE, HEAVY DUTY SPECIFICATION GRADE, NEMA 5-20R	HUBBELL (2) HBL5362 LEVITON PASS & SEYMOUR COOPER
NO SUBSCRIPT	DUPLEX TAMPER RESISTANT RECEPTACLE, HEAVY DUTY SPECIFICATION GRADE, NEMA 5-20R	HUBBELL HBL5362 LEVITON PASS & SEYMOUR COOPER
G/A	DUPLEX GROUND FAULT TAMPER RESISTANT RECEPTACLE, SPECIFICATION GRADE, NEMA 5-20R	HUBBELL GFR5352ST LEVITON PASS & SEYMOUR COOPER
G	DUPLEX GROUND FAULT TAMPER RESISTANT RECEPTACLE, SPECIFICATION GRADE, NEMA 5-20R	HUBBELL GFR5352ST LEVITON PASS & SEYMOUR COOPER

POWER SWITCH SCHEDULE

SUBSCRIPT	DESCRIPTION	MODEL
H	MANUAL TOGGLE DISCONNECT SWITCH, HORSE-POWER RATED	SQUARE D OR PREAPPROVED EQUAL
K	THREE POSITION ROTARY KEY SWITCH (OPEN/CLOSE) WITH LOCKABLE COVER.	SQUARE D OR PREAPPROVED EQUAL

PANEL "__#__"
FED FROM "__#__"
(VOLTAGE)
(AIC RATING)

PHASE A - BLACK
PHASE B - RED
PHASE C - BLUE
NEUTRAL - WHITE
GROUND - GREEN

ENGINEER: KEDbluestone
CONTRACTOR:

1 PANEL BOARD NAMEPLATE

N.T.S.

NOTES:

1. FOR 208V SYSTEMS, FOLLOW COLORS AS SHOWN.
2. FOR 480/277 SYSTEMS, COLOR SHALL BE AS FOLLOWS:

   PHASE A - BROWN
   PHASE B - ORANGE
   PHASE C - YELLOW
   NEUTRAL - GRAY
   GROUND - GREEN

3. NAME PLATE SHALL BE PERMANENTLY ATTACHED TO PANELBOARD. REFER TO SPECIFICATION SECTION 260553 FOR NAMEPLATE CONSTRUCTION REQUIREMENTS.

PHOTOCELL SCHEDULE

SUBSCRIPT	DESCRIPTION	MODEL
LIN	DIGITAL INTERIOR PHOTO SENSOR FOR DAYLIGHT HARVESTING, LOW VOLTAGE, CEILING MOUNT, CONNECT TO ZONE CONTROLLER, PROVIDE ZONE CONTROLLER SUITABLE OF QUANTITY/TYPE OF ZONES CONTROLLED SUBSCRIPTS ON PLANS INDICATE LIGHTING ZONES CONTROLLED BY PHOTO SENSOR. A "-" IS USED BETWEEN GROUPS OF ZONES ON PLAN TO INDICATE MULTIPLE ZONES ARE CONTROLLED VIA THE INPUT FOR THIS SINGLE SENSOR	WATT STOPPER DLM ACUITY NLIGHT CURRENT NX

SWITCH SUBSCRIPT SCHEDULE

SUBSCRIPT	DESCRIPTION	MODEL
L	DIGITAL LOW VOLTAGE WALL STATION, SINGLE ZONE ON/OFF MANUAL CONTROL, LED STATUS LIGHT	WATT STOPPER LMDW-001 ACUITY NLIGHT OR PREAPPROVED EQUAL
LD	DIGITAL LOW VOLTAGE WALL STATION, SINGLE ZONE ON/OFF AND RAISE/LOWER MANUAL CONTROL, LED STATUS LIGHT	WATT STOPPER LMDW-101 ACUITY NLIGHT OR PREAPPROVED EQUAL
LP	LOW VOLTAGE WALL STATION WITH INTEGRAL OCCUPANCY SENSOR, PASSIVE INFRARED, SINGLE ZONE OF ON/OFF MANUAL CONTROL, LED STATUS LIGHT	WATT STOPPER DLM ACUITY NLIGHT OR PREAPPROVED EQUAL
NO SUBSCRIPT	SINGLE POLE SWITCH, COMMERCIAL GRADE, 20 AMP	WATTSTOPPER CS20AC1W ACUITY NLIGHT OR PREAPPROVED EQUAL

MINIMUM BRANCH CIRCUIT FEEDER SIZE (RHW, THHW, THW, THWN, XHHW, XHWN, USE, ZE) BASED ON NEC 2020 AT 75°C

BREAKER SIZE	PHASE/NEUTRAL	GRD	CONDUIT
20A	#12	#12	3/4"
25A	#10	#10	3/4"
30A	#10	#10	3/4"
35A	#8	#10	1"
40A	#8	#10	1"
50A	#6	#10	1"
60A	#4	#10	1-1/4"
70A	#4	#8	1-1/4"
80A	#3	#8	1-1/2"
100A	#1	#8	2"

FIRE ALARM DEVICE SCHEDULE

SYMBOL	DESCRIPTION	MODEL
FD	ADDRESSABLE FIRE ALARM MANUAL PULL STATION, DOUBLE ACTION, RED POLYCARBONATE BODY, KEY RESET, STATUS LED	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS
AM	ADDRESSABLE MONITOR MODULE, LED INDICATOR, SUPERVISION OF NORMALLY OPEN OR NORMALLY CLOSED CONTACT DEVICE	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS
SD	ADDRESSABLE SMOKE DETECTOR, PHOTOELECTRIC TYPE, STATUS LED	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS
	FIRE ALARM AUDIO/VISUAL NOTIFICATION APPLIANCE, WALL MOUNTED, RED [WHITE] HOUSING WITH "FIRE" MARKING, 4-WIRE, '#' IDENTIFIES CANDELA RATING: 15, 30, 75, 110	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS
FAP	FIRE ALARM CONTROL PANEL, ADDRESSABLE, SURFACE MOUNT, REFER TO SPECIFICATION SECTION 283100 FOR ADDITIONAL INFORMATION. PROVIDE DEDICATED 120V POWER [FROM LIFE SAFETY PANELBOARD] WITH HANDLE LOCK.	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS
FAA	FIRE ALARM REMOTE ANNUNCIATOR PANEL, LCD DISPLAY, ALARM, SUPERVISORY, AND TROUBLE ACKNOWLEDGE, ALARM SILENCE, SYSTEM RESET, KEYSWITCH FOR ACCESS CONTROL, THREE PROGRAMMABLE LED INDICATORS, BRUSHED ALUMINUM TRIM, FLUSH MOUNT AT 48" IN A RECESSED ELECTRICAL BOX	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS
#	FIRE ALARM VISUAL NOTIFICATION APPLIANCE, WALL MOUNTED, RED [WHITE] HOUSING WITH "FIRE" MARKING, 2-WIRE, '#' IDENTIFIES CANDELA RATING: 15, 30, 75, 110	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS
H	HEAT DETECTOR, ADDRESSABLE, RATE-OF-RISE OR FIXED TEMPERATURE SENSOR WITH A 135 OR 155 DEGREE TEMPERATURE ALARM, STATUS LED	AUTOCALL ADDRESSABLE SYSTEM BY JOHNSON CONTROLS

CEILING MOUNTED OCCUPANCY SENSOR SCHEDULE

SUBSCRIPT	DESCRIPTION	MODEL
D1	DIGITAL OCCUPANCY SENSOR, DUAL SENSING TECHNOLOGIES (PASSIVE INFRARED AND ULTRASONIC OR MIRCOPHONIC), LOW VOLTAGE, CEILING MOUNT, 360 DEGREE COVERAGE, UP TO 1000 SF COVERAGE	WATT STOPPER DLM ACUITY NLIGHT CURRENT NX
U1	DIGITAL OCCUPANCY SENSOR, ULTRASONIC OR MIRCOPHONIC, LOW VOLTAGE, CEILING MOUNT, 360 DEGREE COVERAGE, UP TO 920 SF OF COVERAGE	WATT STOPPER DLM ACUITY NLIGHT CURRENT NX

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER/MODEL	FINISHES	LIGHT SOURCE	MOUNTING	DELIVERED LUMENS	CRI	CCT	DIMMING	DISTRIBUTION	WATTS	VOLTAGE	EMERGENCY BACK-UP
E1	INDOOR LED EMERGENCY LIGHTING UNIT, TWO ADJUSTABLE HEADS, SELF-TEST/SELF-DIAGNOSTICS, THERMOPLASTIC HOUSING, VANDAL RESISTANT	LITHONIA / ELM4L OR PREAPPROVED EQUAL	WHITE	LED	SURFACE	N/A	N/A	6000 K	N/A	N/A	3 W	277	BATTERY
F1	2'X2' LED FLAT PANEL, BACK LIT	LITHONIA / CPANL OR PREAPPROVED EQUAL	WHITE	LED	RECESSED	4200	80	3500 K	0-10V, 10% DIM	LAMBERTIAN	30 W	277	N/A
F1E	2'X2' LED FLAT PANEL, BACK LIT	LITHONIA / CPANL OR PREAPPROVED EQUAL	WHITE	LED	RECESSED	4200	80	3500 K	0-10V, 10% DIM	LAMBERTIAN	30 W	277	BATTERY
F3C	4" APERTURE, 4' RECESSED ARCHITECTURAL LINEAR, FROSTED WHITE SNAP-IN FLUSH ACRYLIC LENS	MARK ARCHITECTURALL LIGHTING / SLOT 4 OR PREAPPROVED EQUAL	WHITE	LED	SURFACE	1600	80	3500 K	0-10V, 10% DIM	LAMBERTIAN	25 W	277	N/A
F4A	4' STRIP, ACRYLIC DROP LENS	HE WILLIAMS / 75L OR PREAPPROVED EQUAL	WHITE	LED	SURFACE	5131	80	3500 K	0-10V, 10% DIM	LAMBERTIAN	42 W	277	N/A
F4B	2' STRIP, ACRYLIC DROP LENS	HE WILLIAMS / 75L OR PREAPPROVED EQUAL	WHITE	LED	SURFACE	2329	80	3500 K	0-10V, 10% DIM	LAMBERTIAN	17 W	277	N/A
F6A	2' VANITY LIGHT, ACRYLIC LENS, HORIZONTAL MOUNT, CENTER ABOVE MIRROR AT 7' AFF	COLUMBIA/ CWM2 OR PREAPPROVED EQUAL	WHITE	LED	WALL	1500	90	3500 K	ELV, 5% DIM	LAMBERTIAN	18 W	277	N/A
F6B	4' VANITY LIGHT, ACRYLIC LENS, HORIZONTAL MOUNT, CENTER ABOVE MIRROR AT 7' AFF	COLUMBIA/ CWM4 OR PREAPPROVED EQUAL	WHITE	LED	WALL	3000	90	3500 K	ELV, 5% DIM	LAMBERTIAN	31 W	277	N/A
F12A	3" APERTURE, 8' SURFACE MOUNTED ARCHITECTURAL LINEAR, FROSTED WHITE SNAP-IN FLUSH ACRYLIC LENS, IP66 RATED	ALIGHT / LINO OR PREAPPROVED EQUAL	WHITE	LED	SURFACE	8400	80	3500 K	0-10V, 10% DIM	LAMBERTIAN	84 W	277	N/A
F12AE	SIMILAR TO F12A, BUT WITH INTEGRAL EMERGENCY BATTERY	ALIGHT / LINO OR PREAPPROVED EQUAL	WHITE	LED	SURFACE	8400	80	3500 K	0-10V, 10% DIM	LAMBERTIAN	84 W	277	BATTERY
F12B	3" APERTURE, 4' SURFACE MOUNTED ARCHITECTURAL LINEAR, FROSTED WHITE SNAP-IN FLUSH ACRYLIC LENS, IP66 RATED	ALIGHT / LINO OR PREAPPROVED EQUAL	WHITE	LED	SURFACE	4200	80	3500 K	0-10V, 10% DIM	LAMBERTIAN	42 W	277	N/A
F12BE	SIMILAR TO F12B, BUT WITH INTEGRAL EMERGENCY BATTERY	ALIGHT / LINO OR PREAPPROVED EQUAL	WHITE	LED	SURFACE	4200	80	3500 K	0-10V, 10% DIM	LAMBERTIAN	42 W	277	BATTERY
W1	EXTERIOR MULLION MOUNTED WALL PACK, ALUMINUM CONSTRUCTION, UL WET LOCATION LISTED, VANDAL RESISTANT	LUMINAIRE LED / BLD OR PREAPPROVED EQUAL	BLACK	LED	WALL	1024	80	4000 K	N/A	LAMBERTIAN	11 W	277	BATTERY
X1A	EXIT SIGN, SINGLE SIDED, THERMOPLASTIC HOUSING, SELF-TESTING/SELF-DIAGNOSTICS, ARROWS PER PLANS	LITHONIA / LQM OR PREAPPROVED EQUAL	WHITE HOUSING WITH RED LETTERING	LED	CEILING	N/A	N/A	6000 K	N/A	N/A	3 W	277	BATTERY
X1B	EXIT SIGN, SINGLE SIDED, THERMOPLASTIC HOUSING, SELF-TESTING/SELF-DIAGNOSTICS, ARROWS PER PLANS	LITHONIA / LQM OR PREAPPROVED EQUAL	WHITE HOUSING WITH RED LETTERING	LED	WALL	N/A	N/A	6000 K	N/A	N/A	3 W	277	BATTERY

ELECTRICAL CONNECTION SCHEDULE

CALLOUT	LOAD CHARACTERISTICS				PANEL AND CIRCUIT INFORMATION			
	VOLTAGE	PHASE	LOAD	LOAD CLASS	FED FROM	CIRCUIT	MOCP	CONDUIT & WIRE
BACK FLOW	120 V	1	200 VA	HVAC	LET1	46	20/1	3/4"C, 1#12, #12N, #12G
COILING DOOR	120 V	1	500 VA	HVAC	LET1	38	20/1	3/4"C, 1#12, #12N, #12G
CU-1	208 V	1	6032 VA	HVAC	LET1	28,30	40/2	3/4"C, 2#8, #8N, #10G
CUH-1	208 V	1	3750 VA	HVAC	LET1	1,3	30/2	3/4"C, 2#10, #10N, #10G
EF-2	120 V	1	200 VA	HVAC	LET1	26	20/1	3/4"C, 1#12, #12N, #12G
F-1	120 V	1	200 VA	HVAC	LET1	31	20/1	3/4"C, 1#12, #12N, #12G
LIGHTING GATEWAY	120 V	1	180 VA	HVAC	LET1	56		
PLUMBING SENSOR TRANSFORMER	120 V	1	100 VA	HVAC	LET1	44	20/1	3/4"C, 1#12, #12N, #12G
PLUMBING SENSOR TRANSFORMER	120 V	1	100 VA	HVAC	LET1	41	20/1	3/4"C, 1#12, #12N, #12G
PLUMBING SENSOR TRANSFORMER	120 V	1	100 VA	HVAC	LET1	39	20/1	3/4"C, 1#12, #12N, #12G
UH-1	208 V	1	3307 VA	HVAC	LET1	40,42	20/2	3/4"C, 2#12, #12N, #12G
UH-2	208 V	1	3307 VA	HVAC	LET1	43,45	20/2	3/4"C, 2#12, #12N, #12G
UH-3	208 V	1	3307 VA	HVAC	LET1	27,29	20/2	3/4"C, 2#12, #12N, #12G
WH-1	120 V	1	600 VA	HVAC	LET1	36	20/1	3/4"C, 1#12, #12N, #12G
WH-1	277 V	1	12500 VA	HVAC	HET1	13	60/1	3/4"C, 1#4, #4N, #10G
WH-2	277 V	1	12500 VA	HVAC	HET1	15	60/1	3/4"C, 1#4, #4N, #10G

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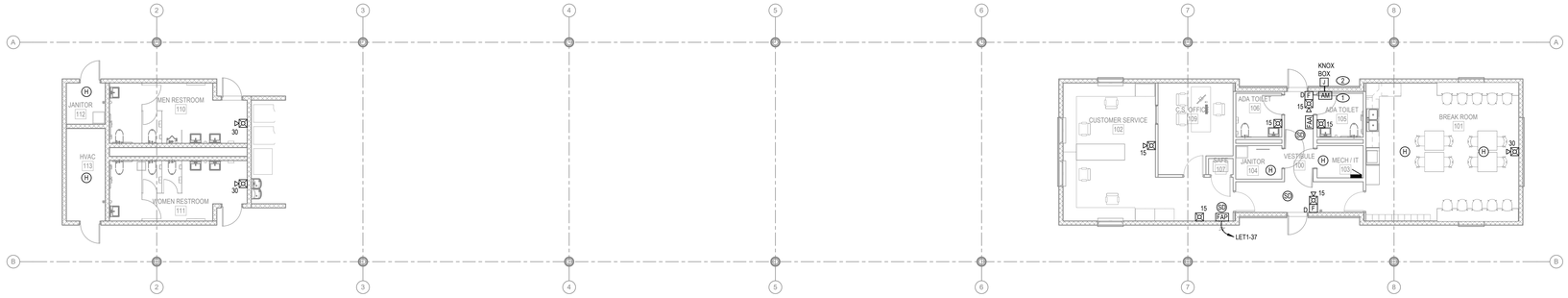
Revisions

PROJECT NO. 2613
STATUS BID PACKAGE 2 - NOT FOR CONSTRUCTION
DATE 10/22/2026
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ELECTRICAL SCHEDULES **ET600**

KEYED NOTES:

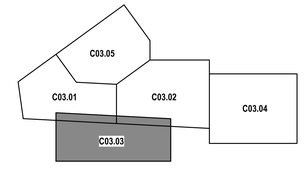
1. CONNECT MONITOR MODULE TO DOOR CONTACT IN KNOX BOX. COORDINATE WITH G.C.
2. KNOX BOX, COORDINATE EXACT LOCATION WITH ARCHITECT AND G.C. PRIOR TO ROUGH-IN.



N

1 ELECTRICAL SYSTEMS PLAN

1/8" = 1'-0"



KEY MAP

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ELECTRICAL SYSTEMS PLAN **EYT100**

ELECTRICAL ABBREVIATIONS

1P	1 POLE (2P, 3P, 4P, ETC.)	LTNG	LIGHTNING
A	6" ABOVE COUNTER OR BACKSPLASH TO CENTERLINE OF DEVICE	LV	LOW VOLTAGE
		M	INSTALL DEVICE IN MILLWORK
A, AMP	AMPERE	MAX	MAXIMUM
AC	ABOVE COUNTER, AIR CONDITIONING UNIT	MAG.S	MAGNETIC STARTER
ACLG	ABOVE CEILING	MC	MOMENTARY CONTACT
AF	AMP FRAME	MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AFG	ABOVE FINISHED GRADE	MCC	MOTOR CONTROL CENTER
AFCI	ARC FAULT CIRCUIT INTERRUPTER	MDC	MAIN DISTRIBUTION CENTER
		MDP	MAIN DISTRIBUTION PANEL
AHU	AIR HANDLING UNIT	MFR	MANUFACTURER
AL	ALUMINUM	MFS	MAIN FUSED DISCONNECT SWITCH
ALT	ALTERNATE	MH	MANHOLE
AMP	AMPERE	MIC	MICROPHONE
AMPL	AMPLIFIER	MIN	MINIMUM
ANNUN	ANNUNCIATOR	MISC	MISCELLANEOUS
APPROX	APPROXIMATELY	MLO	MAIN LUGS ONLY
AQ-STAT	AQUASTAT	MMS	MANUAL MOTOR STARTER
ARCH	ARCHITECT, ARCHITECTURAL	MOA	MULTIOUTLET ASSEMBLY
AS	AMP SWITCH	MSP	MOTOR STARTER PANELBOARD
AT	AMP TRIP	MSBD	MAIN SWITCHBOARD
ATC	AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR	N/A	NOT APPLICABLE
		NFDS	NON-FUSED SAFETY DISCONNECT SWITCH
ATS	AUTOMATIC TRANSFER SWITCH		
AUTO	AUTOMATIC	NIC	NOT IN CONTRACT
AUX	AUXILIARY	NL	NIGHT LIGHT
AV	AUDIO VISUAL	N.O.	NORMALLY OPEN
AWG	AMERICAN WIRE GAUGE	NPF	NORMAL POWER FACTOR
B	BLACK DEVICE COLOR WITH BLACK UNBREAKABLE THERMOPLASTIC COVER PLATE	NTS	NOT TO SCALE
		OC	ON CENTER
		OH	OVERHEAD
BAS	BUILDING AUTOMATION SYSTEM	OL	OVERLOADS
BATT	BATTERY	PA	PUBLIC ADDRESS
BD	BOARD	PB	PULL BOX OR PUSHBUTTON
BLDG	BUILDING	PC	PLUMBING CONTRACTOR
BMS	BUILDING MANAGEMENT SYSTEM	PE	PNEUMATIC ELECTRIC
C	CONDUIT	PED	PEDESTAL
CAB	CABINET	PF	POWER FACTOR
CAT	CATALOG	PH	PHASE
CATV	CABLE TELEVISION	PIV	POST INDICATING VALVE
CB	CIRCUIT BREAKER	PNL	PANEL
CCTV	CLOSED CIRCUIT TELEVISION	PP	POWER POLE
CKT	CIRCUIT	PR	PAIR
CLG	CEILING	PRI	PRIMARY
CM	CONSTRUCTION MANAGER	PROJ	PROJECTION
COMB	COMBINATION	PRV	POWER ROOF VENTILATOR
CMPR	COMPRESSOR	PT	POTENTIAL TRANSFORMER
CONN	CONNECTION	PVC	POLYVINYL CHLORIDE (CONDUIT)
CONST	CONSTRUCTION	PWR	POWER
CONT	CONTINUATION OR CONTINUOUS	QTY	QUANTITY
CONTR	CONTRACTOR	RAC	RIGID ALUMINUM CONDUIT
CP	CIRCULATING PUMP	RCPT	RECEPTACLE
CRT	CATHODE-RAY TUBE	REQD	REQUIRED
CT	CURRENT TRANSFORMER	RM	ROOM
CTR	CENTER	RMC	RIGID METALLIC CONDUIT
CU	COPPER	RTU	ROOF TOP UNIT
DEPT	DEPARTMENT	SC	SURFACE CONDUIT
DET	DETAIL	SEC	SECONDARY
DIA	DIAMETER	SHT	SHEET
DISC	DISCONNECT	SIM	SIMILAR
DIST	DISTRIBUTION	SLD	SINGLE-LINE DIAGRAM
DN	DOWN	S/N	SOLID NEUTRAL
DO	AUTOMATIC DOOR OPENER	SPEC	SPECIFICATION
DPR	DAMPER	SPKR	SPEAKER
DS	SAFETY DISCONNECT SWITCH	SP	SPARE
DT	DOUBLE THROW	SPP	SINGLE-POINT POWER
DWG	DRAWING	SR	SURFACE RACEWAY
EC	ELECTRICAL CONTRACTOR	SS	STAINLESS STEEL
ECB	ENCLOSED CIRCUIT BREAKER	SSW	SELECTOR SWITCH
ELEC	ELECTRIC, ELECTRICAL	S/S	STOP/START PUSHBUTTONS
ELEV	ELEVATOR	STA	STATION
ELU	EMERGENCY LIGHTING UNIT	STD	STANDARD
EM	EMERGENCY	SURF	SURFACE MOUNTED
EMS	ENERGY MANAGEMENT SYSTEM	SW	SWITCH
EMT	ELECTRICAL METALLIC TUBING	SWBD	SWITCHBOARD
EP	ELECTRIC PNEUMATIC	SYM	SYMMETRICAL
EPO	EMERGENCY POWER OFF	SYS	SYSTEM
EQUIP	EQUIPMENT	TEL	TELEPHONE
EWC	ELECTRIC WATER COOLER	TERM	TERMINAL
EXIST	EXISTING	T	TAMPER RESISTANT
EXH	EXHAUST	TL	TWIST LOCK
EXP	EXPLOSION PROOF	T-STAT	THERMOSTAT
FA	FIRE ALARM	TTC	TELEPHONE TERMINAL CABINET
FABP	FIRE ALARM BOOSTER POWER SUPPLY PANEL	TV	TELEVISION
		TVTC	TELEVISION TERMINAL CABINET
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
FCU	FAN COIL UNIT	UC	UNDER COUNTER
FIXT	FIXTURE	UE	UNDERGROUND ELECTRICAL
FLR	FLOOR	UG	UNDERGROUND
FLUOR	FLUORESCENT	UH	UNIT HEATER
FPC	FIRE PROTECTION CONTRACTOR	UT	UNDERGROUND TELEPHONE
FU	FUSE	UTIL	UTILITY
FUDS	FUSED SAFETY DISCONNECT SWITCH	UV	ULTRAVIOLET
GA	GAUGE	V	VOLT
GAL	GALLON	VA	VOLT-AMPERES
GALV	GALVANIZED	VDT	VIDEO DISPLAY TERMINAL
GC	GENERAL CONTRACTOR	VERT	VERTICAL
GEN	GENERATOR	VFD	VARIABLE FREQUENCY DRIVE
GFI	GROUND FAULT CIRCUIT INTERRUPTER	VOL	VOLUME
GFP	GROUND FAULT PROTECTOR	W	WATT
GND	GROUND	W/	WITH
GYP BD	GYPSUM BOARD	WG	WIRE GUARD
HWC-#	DOMESTIC WATER CIRCULATING PUMP	WH	WATER HEATER
HOA	HANDS-OFF-AUTOMATIC SWITCH	W/O	WITHOUT
H	INSTALL DEVICE HORIZONTALLY	WP	WEATHERPROOF
HH	HANDHOLE	XFMR	TRANSFORMER
HP	HORSEPOWER	XFR	TRANSFER
HPF	HIGH POWER FACTOR	#"	LOCATION-SPECIFIC MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTERLINE OF DEVICE
HT	HEIGHT		
HTG	HEATING		
HTR	HEATER		
HV	HIGH VOLTAGE	∠	ANGLE
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	@	AT
		▲	DELTA
IC	INTERRUPTING CAPACITY	'	FEET
IG	ISOLATED GROUND	"	INCHES
IMC	INTERMEDIATE METAL CONDUIT	#	NUMBER
INCAND	INCANDESCENT	Ø	PHASE
IR	INFRARED	Ç	CENTER LINE
I/W	INTERLOCK WITH	P	PLATE
J-BOX	JUNCTION BOX		
K.E.C.	KITCHEN EQUIPMENT CONTRACTOR		
KV	KILOVOLT		
KVA	KILOVOLT-AMPERE		
KVAR	KILOVOLT-AMPERE REACTIVE		
KW	KILOWATT		
KWH	KILOWATT HOUR		
LT	LIGHT		
LTG	LIGHTING		

GENERAL PLAN SYMBOLS

MARK	SCHEDULED EQUIPMENT (UNDERLINED)
MARK	NONSCHEDULED EQUIPMENT
(E) MARK	EXISTING EQUIPMENT - (E) PREFIX (HALFTONE)
(R) MARK	EXISTING RELOCATED EQUIPMENT - (R) PREFIX
# / #	SECTION VIEW, TOP REPRESENTS DETAIL NUMBER, BOTTOM REPRESENTS SHEET NUMBER
# / #	ENLARGED VIEW, TOP REPRESENTS VIEW NUMBER, BOTTOM REPRESENTS SHEET NUMBER
	NEW WORK BY THE EC (DARK SOLID LINE)
	NEW UNDERGROUND WORK BY THE EC (DARK DASHED LINE)
	WORK BY OTHERS AND/OR EXISTING (LIGHT SOLID LINE)
	DEMO WORK BY THE EC (DARK DASHED LINE)
	MATCHLINE
	KEYED NOTE

ACCESS CONTROL SYMBOLS

SYMBOL	DESCRIPTION
AS	ALARM SWITCH
DC	DOOR CONTACT
CR	CARD READER
J	FLUSH MOUNTED JUNCTION BOX
ACP-#	ACCESS CONTROL PANEL
ES	ELECTRIC STRIKE
GB	GLASS BREAK SENSOR
KP	KEYPAD
ML	MAGNETIC LOCK
MC	MONEY CLIP
M	MOTION DETECTOR
OPTURN-#	OPTICAL TURNSTILE
REX	REQUEST TO EXIT
BR	BIOMETRIC READER
DOR	DOOR SWITCH

CELLULAR SYMBOLS

SYMBOL	DESCRIPTION
IBE	INDOOR CELLULAR ENHANCEMENT ANTENNA
ODE	OUTDOOR CELLULAR ENHANCEMENT ANTENNA
IRFS	INCOMING SERVICE CELLULAR ENHANCEMENT ANTENNA

AV SYMBOLS

SYMBOL	DESCRIPTION
AV-#	AV CABINET
CAM-#	CONFERENCE CAMERA
MC	CEILING MOUNTED MICROPHONE
S A	CEILING MOUNTED AUDIO SPEAKER
J	JUNCTION BOX
	LECTURN
S A	WALL MOUNTED AUDIO SPEAKER
MD T	TABLETOP MICROPHONE
MPC-#	MEDIA PRESENTATION CONTROLLER
MPWP-#	MEDIA PRESENTATION WALL PLATE
PS	PROJECTOR SCREEN OVERRIDE SWITCH
PRS-#	PROJECTOR SCREEN
PRO-#	PROJECTOR
TV-#	TELEVISION
AV	AV RACK BACKBOX
PLIFT-#	PROJECTOR LIFT

SOUND MASKING SYMBOLS

SYMBOL	DESCRIPTION
SM	DIRECT FIRE SOUND MASKING SPEAKER
SM	SOUND MASKING SPEAKER
V	VOLUME CONTROL
AMP-SM-#	SOUND MASKING AMPLIFIER

NURSE CALL SYMBOLS

N	WALL MOUNTED NURSE CALL DEVICE
	CEILING MOUNTED NURSE CALL DOME LIGHT
D	WALL MOUNTED NURSE CALL DOME LIGHT

CABLE TV SYMBOLS

SYMBOL	DESCRIPTION
TV	CABLE TV COAX JACK
TV C	CABLE TV COAX JACK - CEILING MOUNTED
DA	DISTRIBUTION AMPLIFIER

CCTV SYMBOLS

SYMBOL	DESCRIPTION
	SECURITY CAMERA ROUGH-IN ONLY - CEILING MOUNTED
	SECURITY CAMERA ROUGH-IN ONLY - WALL MOUNTED
	SECURITY CAMERA
SMON-#	SECURITY MONITOR
NVR	NETWORK VIDEO RECORDER

INTERCOM SYMBOLS

SYMBOL	DESCRIPTION
INT CO	INTERCOM COLOR DOOR STATION
INT	EMERGENCY VANDAL RESISTANT PHONE TOWER
INT M	INTERCOM MASTER STATION
INT D	INTERCOM DOOR STATION
INT AR	INTERCOM AREA OF RESCUE CALL BUTTON
INT MAR	INTERCOM AREA OF RESCUE MASTER STATION

PAGING SYMBOLS

SYMBOL	DESCRIPTION
AMP	TELEPHONE PAGING AMPLIFIER
S A	HORN SPEAKER - WALL MOUNTED
S A	HORN SPEAKER - CEILING MOUNTED
S	PAGING SPEAKER OR DROP IN CEILING GRID SPEAKER
V	VOLUME CONTROL

CLOCK SYMBOLS

SYMBOL	DESCRIPTION
ETC S	ELAPSED TIME CLOCK CONTROL
C 2	WIRELESS ANALOG CLOCK DUAL FACE
C	DIGITAL WIRELESS CLOCK
C ETC	DIGITAL ELAPSED TIME CLOCK
C	WIRELESS ANALOG CLOCK SINGLE FACE
	ALARM BELL

NETWORK SYMBOLS

SYMBOL	DESCRIPTION
CT-#	CABLE TRAY
J	JUNCTION CEILING MOUNTED DOUBLE GANG
ER-#	EQUIPMENT RACK
MTGB	GROUND BAR
#	INFORMATION OUTLET
#	INFORMATION OUTLET MOUNTED IN CEILING
#	INFORMATION OUTLET MOUNTED IN FLOORBOX
LR-#	LADDER RACK
MPP-#	MODULAR PATCH PANEL
TTB-#	TELECOMMUNICATION TERMINAL BOARD
VM-#	VERTICAL WIRE MANAGEMENT
WAP	INFORMATION OUTLET FOR WIRELESS ACCESS POINT

TECHNOLOGY SHEET LIST

TT000	TECHNOLOGY COVER PAGE
TT100	TECHNOLOGY PLAN
TT500	TECHNOLOGY DETAILS
TT501	TECHNOLOGY DETAILS
TT600	TECHNOLOGY SCHEDULES

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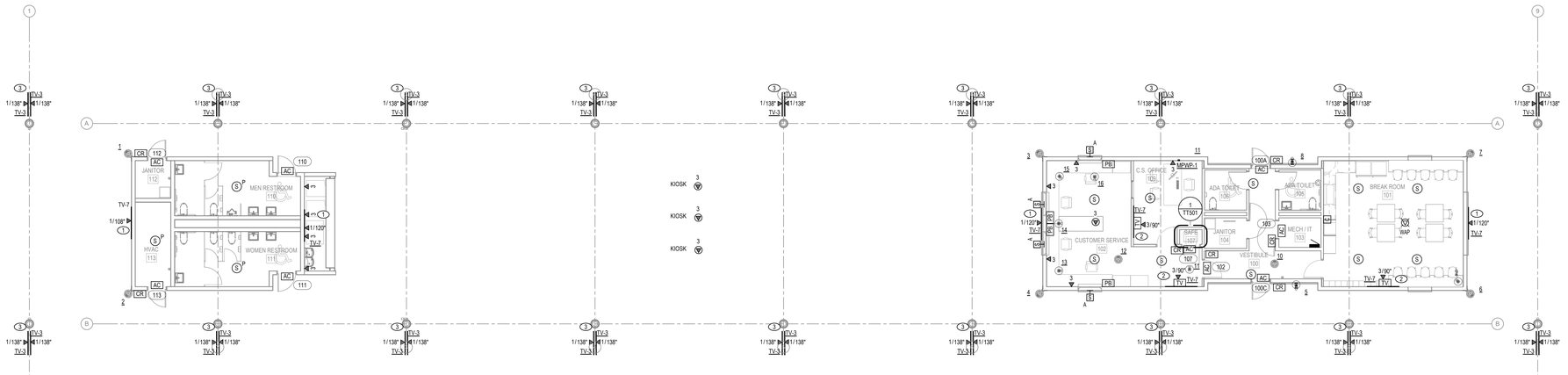
TECHNOLOGY COVER PAGE TT000

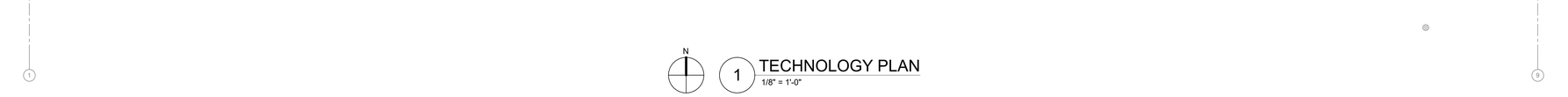
GENERAL NOTES:

1. INFORMATION OUTLETS ON THIS SHEET SHALL BE FED OUT OF IDF ROOM 107.
2. OWNER TO ARRANGE AND CONDUCT THEIR OWN WIRELESS SURVEY AFTER CONSTRUCTION. THE OWNER SHALL BE RESPONSIBLE IF ANY ADDITIONAL LOCATIONS ARE REQUIRED AFTER SURVEY IS COMPLETED.
3. MASS NOTIFICATION SYSTEM CONSISTS OF AMPLIFIER, CABLING, AND NEW SPEAKERS.
4. CCTV CAMERA SYSTEM CONSISTS OF SOFTWARE, SERVER, CABLING, AND CAMERAS.
5. ACCESS CONTROL SYSTEM CONSISTS OF HEADEND, SOFTWARE, CARD READERS, REQUEST EXIT, DOOR CONTACTS, AND ELECTRIC STRIKES.
6. CATV SYSTEM CONSISTS OF AMPLIFIER AND RG-6 CABLING. REFER TO 2/TT501 FOR RISER DIAGRAM. REFER TO SPECIFICATION SECTION 274133 FOR ADDITIONAL INFORMATION.

KEYED NOTES:

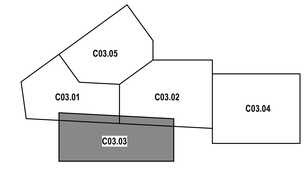
1. REFER TO 2/TT600 FOR TV ELEVATION.
2. REFER TO 4/TT600 FOR TV ELEVATION.
3. REFER TO 3/TT600 FOR TV ELEVATION.





N

1 TECHNOLOGY PLAN
1/8" = 1'-0"



KEY MAP

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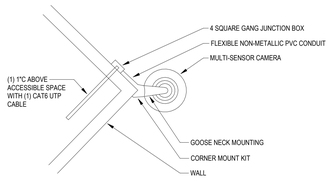
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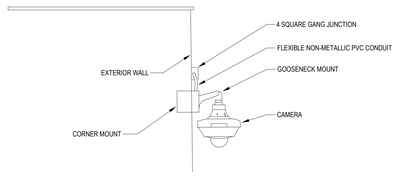
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TECHNOLOGY PLAN TT100

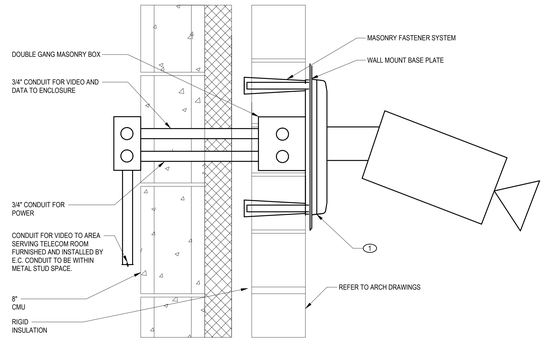


TOP ELEVATION



SIDE ELEVATION

6 EXTERIOR CORNER MOUNT CAMERA DETAIL
N.T.S.



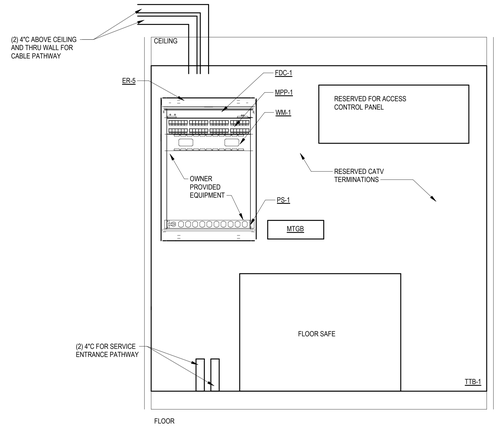
4 EXTERIOR CAMERA MOUNTING DETAIL
N.T.S.

NOTES:

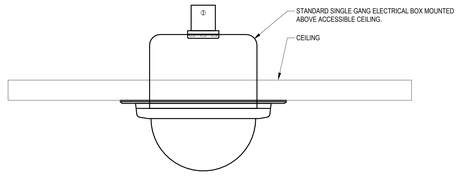
1. SECURE WALL MOUNT BASE PLATE TO METAL STUDS WITH FASTENERS. DO NOT SECURE TO METAL PANEL.
2. SEAL WALL MOUNT BASE PLATE TO METAL PANEL TO PREVENT WATER INFILTRATION.
3. IF A COMMON BACKBOX IS USED PROVIDE BOX DIVIDER FOR POWER AND VIDEO/DATA.
4. COORDINATE ALL WORK ON THE EXTERIOR WITH G.C. FINAL INSTALLATION SHALL NOT VIOLATE THE WARRANTY WALL OR COMPROMISE WATER AND AIR SEAL OF THE SYSTEM.

KEYED NOTES:

1. SECURITY CONTRACTOR SHALL FURNISH AND INSTALL BLACK COVER PLATE FOR ROUGH-IN LOCATIONS. SECURITY CAMERA HOUSING SHALL BE PAINTED TO MATCH EXTERIOR.



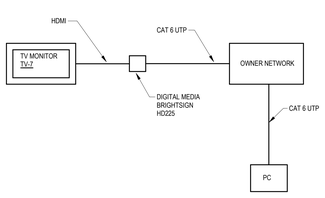
3 WALL RACK ELEVATION DETAIL
N.T.S.



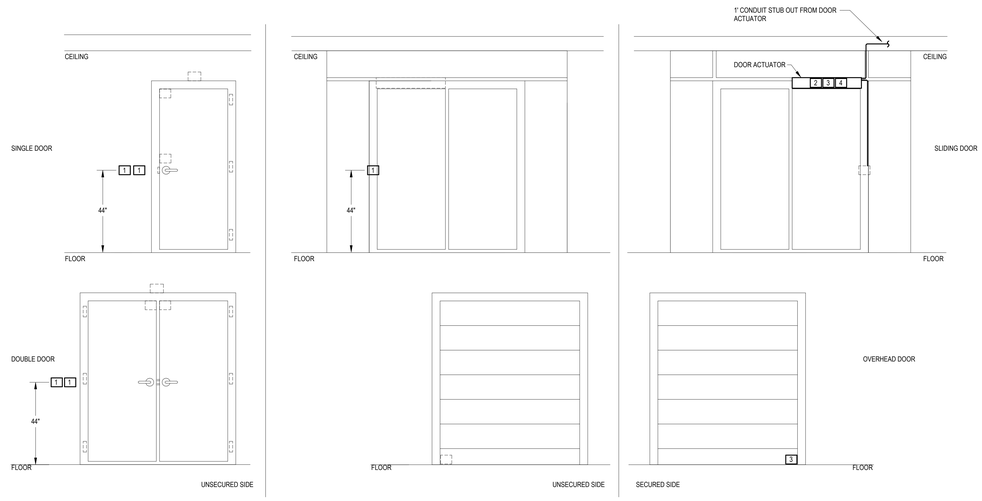
2 CEILING CAMERA MOUNTING DETAIL
N.T.S.

NOTES:

1. E.C. SHALL PROVIDE STANDARD SINGLE GANG ELECTRICAL BOX MOUNTED ABOVE ACCESSIBLE CEILING. PROVIDE CAT6 UTP AND WHIP THROUGH THE CEILING.



5 DIGITAL SIGNAGE RISER
N.T.S.



1 ACCESS CONTROL DOOR DETAIL
N.T.S.

NOTES:

1. CONTRACTOR SHALL PROVIDE AND INSTALL 24V FOR DOOR HARDWARE. ELECTRICAL CONTRACTOR SHALL PROVIDE 120V TO POWER SUPPLIES.

LOCATION	POSSIBLE DEVICES (ABV.)	NOTES
1	CARD READER (CR) INTERCOM (INT) INTERCOM W/ CAMERA (INTC) BIOMETRIC READER (BR) KEYPAD (KP)	SINGLE GANG BOX WITH SINGLE GANG 1/2" RAISED DEVICE RING UNLESS NOTED OTHERWISE. DEVICE LOCATION AND MOUNTING MAY VARY, REFER TO FLOORPLANS FOR ADDITIONAL INFORMATION.
2	REQUEST EXIT (REX)	
3	DOOR CONTACT (DC) MAGNETIC LOCK (ML)	
4	ELECTRIC STRIKE (ES) ELECTRIC LOCK (EL) ELECTRIC PANIC (EP)	

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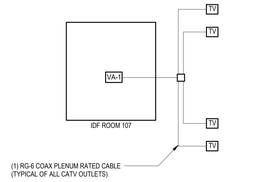
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TECHNOLOGY DETAILS TT500

EQUIPMENT	KED-BSE DRAWINGS - DEVICE LOCATIONS	EQUIPMENT BY OWNER	INSTALLATION OF EQUIPMENT	INSTALLATION OF CABLE	ROUGH-IN AND PATHWAY INSTALLATION	COMMENTS
TELEPHONE SYSTEM		X	OWNER			VOIP SYSTEM (Using existing system)
WIRELESS ACCESS POINTS - EQUIPMENT	X	X	OWNER	SECURITY ENGINEERING	EC	OWNER TO PROVIDE EQUIPMENT.(DESIGN STILL NEEDED FOR DROP LOCATIONS AND DATA INSTALLATION BY SECURITY ENGINEERING)
WIRELESS ACCESS POINT ROUGH-IN - (1) CAT 6 PLENUM CABLING	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
HORIZONTAL CABLING CAT6 PLENUM CABLE-PHONE/PRINTERS/FAX/ANALOG TYPE CABLE	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
HORIZONTAL CABLING CAT6 PLENUM FOR FLOOR BOX - NETWORK	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
HORIZONTAL CABLING CAT6 PLENUM - CAMERA	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
HORIZONTAL CABLING CAT6 PLENUM - NETWORK	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
TESTING - FIBER AND CAT6A AND LABELING	x		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
FIBER DISTRIBUTION CABINET	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
RACK HORIZONTAL MANAGER	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
RJ-45 JACKS AT WORKAREA AND IDF MODULAR PATCH PANEL	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
FACEPLATES	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
MODULAR PATCH PANEL	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
EQUIPMENT RACKS (4POST IN THE MDF AND 2POST IN IDF TYPE WITH VERTICAL HORIZONTAL MANAGERS)	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
COPPER PATCH CORDS AT RACK	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
COPPER PATCH CORDS AT WORKSTATIONS	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
BACKBONE FIBER OPTIC CABLING -TERMINATIONS BETWEEN THE MDF AND IDF ROOMS	X		SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SECURITY ENGINEERING
FIBER PATH CORDS	X		SECURITY ENGINEERING	SECURITY ENGINEERING		SECURITY ENGINEERING
MDF/IDF ROOM - TELECOM TERMINAL BOARD, CONDUIT SLEEVES, OVERHEAD LADDER RACK AND GROUNDING BAR	X		EC	EC	EC	
NETWORK SWITCHES		X	BY OWNER	BY OWNER		EQUIPMENT TO BE PURCHASED BY OWNER
ROUTERS, MODEMS, PHONE EQUIPMENT, HANDSETS		X	BY OWNER	BY OWNER		EQUIPMENT TO BE PURCHASED BY OWNER
CONDUITS-J-BOXES					EC	
SERVICE PROVIDER CABLING TO THE MDF -NETWORK	X		UNITI	UNITI	EC	OWNER TO WORK WITH THERE PREFERRED INTEGRATOR AND COORDINATE ALL CONTRACTS OF ESTABLISHING SERVICE TO THE FACILITY
CONDUIT ROUTE FROM THE SERVICE PROVIDERS MEET ME POINT TO THE MDF IN ADMINISTRATION BUILDING. INCLUDES CONDUITS AND HANDHOLES INTO THE MDF/IDF ROOMS	X				EC	
WIRED BASKET TRAY	X				EC	
MASS NOTIFICATION / PAGING SPEAKERS - INTERIOR AND EXTERIOR	X	X	SECURITY ENGINEERING	SECURITY ENGINEERING	EC	SPEAKERS TO BE INSTALLED BY OWNER AND DATA CABLE TO BE INSTALLED BY SECURITY ENGINEERING
MASS NOTIFICATION / PAGING SYSTEM HEADEND	X		OWNERS VENDOR	OWNERS VENDOR	EC	INTERGRATED WITH EXISTING NOTIFICATION SYSTEM (INFORMACAST)
ACCESS CONTROL PANEL - LENEL ONGUARD	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CARD READERS- DUAL AUTHENTICATIONS	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CODE BLUE STATIONS INTERCOM/CAMERA PEDESTALS -CODE BLUE	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
ELECTRIC LATCH/STRIKES -PROVIDED BY DOOR HARDWARE INTEGRATOR	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
TCATNOC ROOD	X		CE	CE	CE	(SIHT NO GNIKROW SEITILICAF) GNIREENGNE YTIRUCES YB DEDIVORP EB OT
LOCKDOWN	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
REQUEST TO EXIT	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
PANIC ALARM SWITCHES	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CCTV CAMERA SYSTEM - SOFTWARE, CAMERAS LICENSES, AND STORAGE -AVIGILON		X	S			TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CCTV MONITOR -VIEWING STATION 55" TV	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CCTV CAMERAS INTERIOR AND EXTERIOR - AVIGILON	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
AREA OF REFUGE MASTER HEADEND AND INTERCOM BUTTON AND WIRING	X		EC	EC	EC	
TV'S AND TV MOUNTS WITH BRIGHT SIGN DIGITAL MEDIA PLAYER -DIGITAL SIGNAGE LOCATIONS	X		EC	EC	EC	TRANSIT BUS MESSAGE BOARDS-ONLY .NO DIGITAL SIGNAGE LOCATIONS ANYWHERE ELSE FOR THE PROJECT
TRAINING ROOM AND CONFERENCE ROOM - FLOOR BOXES ONLY	X		EC	EC	EC	
TRAINING ROOM AV SYSTEM -TV'S TV MOUNTS, FRONT/REAR CAMERAS, AMPLIFER, SPEAKERS, VIDEO CONFERENCE INTERFACE (SOFT CODEC- TEAMS / ZOOM) (HDMI INPUT AND CONTROLS FRONT OF ROOM)	X		OWNERS VENDOR	OWNERS VENDOR	EC	OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
CONFERENCE ROOM AV SYSTEM -TV'S TV MOUNTS, FRONT CAMERAS, AMPLIFER, SPEAKERS, VIDEO CONFERENCE INTERFACE (SOFT CODEC- TEAMS / ZOOM) (HDMI INPUT AND CONTROLS AT CONFERENCE TABLE)	X		OWNERS VENDOR	OWNERS VENDOR	EC	OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
MEETING ROOM AV SYSTEM -CEILING PROJECTOR, CEILING PROJECTOR SCREEN, TV DISPLAYS FOR BACK OF HOUSE VIEWING, FRONT/REAR CAMERAS,AMPLIFER, SPEAKERS, VIDEO CONFERENCE INTERFACE (SOFT CODEC- TEAMS / ZOOM) (HDMI INPUT AND CONTROLS AT LECTURN)	X		OWNERS VENDOR	OWNERS VENDOR	EC	OWNER CHECKING ON TO SEE IF PROVIDED BY OWNERS VENDOR OR TO BE PART OF THE CONSTRUCTION DOCUMENTS
TV'S AND TV MOUNTS WITH HDMI CABLING FOR PRESENTATION IN OFFICES TYPE-SIZE ROOMS (RADIO, CALL CENTER, SAFETY OFFICER, ACCOUNTING, FINANCE, DIV MANAGER, DEPUTY DIRECTOR, DIRECTOR, MAINTENANCE SUPERVISOR, FACILITY MANAGER, AND FACILITY MANAGER)	X		EC	EC	EC	
INTERCOM CAMERA/DOOR STATION AND INTERCOM MASTER STATION AT GATE ENTRANCES AND ENTRANCES INTO FACILTY - AIPHONE	X		EC	EC	EC	
UPS	X		EC	EC	EC	
TIME CLOCK LOCATIONS (NETWORK CABLING) • ADMIN BUILDING: CORR 113 ON WALL OF ROOM AND ROOM 104 LOCKER RM(TWO CLOCKS) • MAINT BLDG: CORR 101 • TRANSFER CNTR: INSIDE DOOR OF BREAK RM ON WALL ON THE RIGHT SIDE.	X		OWNERS VENDOR	OWNERS VENDOR	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
PRINTER LOCATIONS (NETWORK CABLE) ADMIN BUILDING: OFFICE SUPPLIES 121, RECEPT 120, SAFETY HALLWAY, RECEPT 104, DISPATCH / RADIO ROOMS, CALL CENTER MAINTENANCE SUPERVISOR, FACILITY MANAGER, ADMIN OFFICE, ROOM 214, MAINT BLDG: TRANSFER BUILDING: CUSTOMER SERVICE AREA, AND ADMIN BUILDING ROOM 104 AND 105	X		EC	EC	EC	TO BE PROVIDED BY SECURITY ENGINEERING (FACILITIES WORKING ON THIS)
CATV JACKS: ADMIN BUILDING ROOMS -DIR RM 124, DEPUTY DIR RM 125, DV MAN RM 126, FIN RM 127, ACCNT RM 128, CONF RM 129, TRAIN RM 102, CHIEF SAFETY RM 140, SAFETY MAN RM 106, DISPATCH RM 101,RADIO RM 102 & 103, CALL CNTR RM 105, MEET RM 201. MAINT BLDG: BREAK RM 102, FACILITY MAN RM WA, MAIN MAN RM 122. TRANSFER CENTER: CUSTOMER WAITING RM, CUST SERV RM 200, AND BREAK RM 347	X		EC	EC	EC	
RADIO ROOM EQUIPMENT/ANTENNA LOCATIONS THE TWO RADIO ROOMS IN THE ADMIN BUILDING ARE THE ONLY ROOMS THAT WILL GET RADIOS INSTALLED.						EQUIPMENT TO BE RELOCATED FROM EXISTING LOCATION. OWNERS VENDOR (CES) TO RELOCATE/RE-INSTALL/TEST EQUIPMENT
CATV SYSTEM HORIZONTAL CABLE TO THE NEAREST MDF/IDF-NO SPLITTER, COUPLERS, OR TAPS	X		EC	EC	EC	
AMPLIFIERS	X		EC	EC	EC	

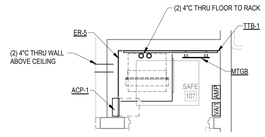


2 CATV RISER DIAGRAM

N.T.S.

NOTES:

1. SEE SPECIFICATION SECTION 274133 FOR ADDITIONAL INFORMATION.



N

1 ENLARGED SAFE 107 EQUIPMENT PLAN

1/2" = 1'-0"

NOTES:

1. REFER TO 3/TT500 FOR RACK ELEVATION DETAIL AND ADDITIONAL INFORMATION.

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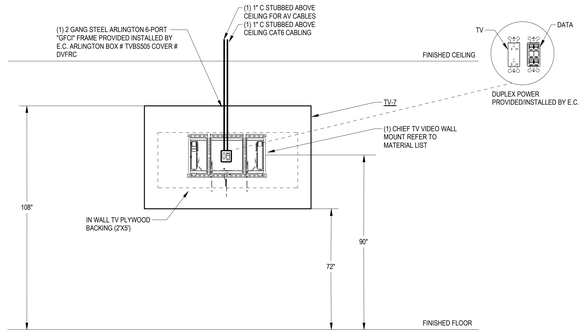
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TECHNOLOGY DETAILS **TT501**

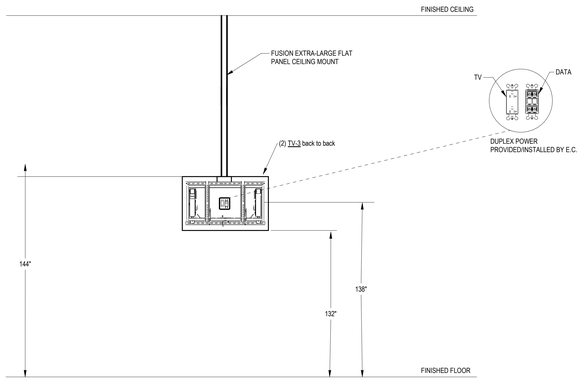


4 75" TV ELEVATION INTERIOR

N.T.S.

NOTES:

1. PROVIDE SHORTER POWER CORDS FOR TV.
2. PROVIDE (1) 1/2" THICK WALL BACKING FOR TV MOUNT.

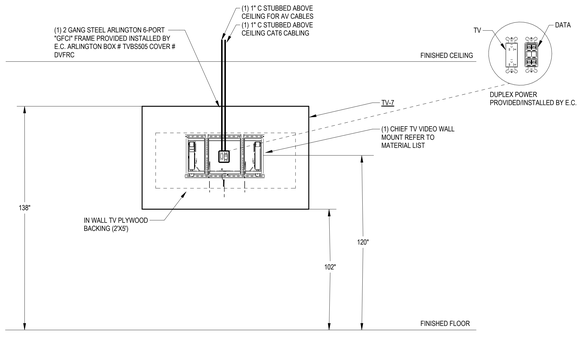


3 24" TV ELEVATION CEILING MOUNT

N.T.S.

NOTES:

1. PROVIDE SHORTER POWER CORDS FOR TV.

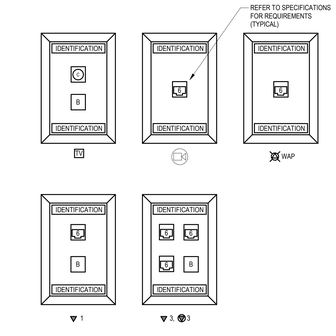


2 75" TV ELEVATION EXTERIOR

N.T.S.

NOTES:

1. PROVIDE SHORTER POWER CORDS FOR TV.
2. PROVIDE (1) 1/2" THICK WALL BACKING FOR TV MOUNT.



1 INFORMATION OUTLET DETAIL

N.T.S.

CAMERA SCHEDULE

CCTV CAMERA. PROVIDE FLUSH FOUR SQUARE JUNCTION BOX FOR CAMERA WITH 3/4" C. FROM DEVICE TO JUNCTION BOX LOCATED ABOVE ACCESSIBLE SPACE.
SUBSCRIPT "#" INDICATES SPECIFIC INFORMATION ON CAMERA CHARACTERISTICS.
REFER TO NETWORK SCHEDULE FOR FACEPLATE/RJ-45 JACK INFORMATION.

CAMERA NUMBER	CAMERA NAME	CAMERA MODEL	CAMERA TYPE	HEIGHT A.F.F.	FOV DISTANCE TO OBJECT	FOV UPPER LIMIT	FOV BOTTOM LIMIT	FOV ACTUAL FOCAL LENGTH	FOV RANGE OF LENS	REFER TO MOUNTING DETAIL	COMMENTS
1	NW EX	AVIGILON ALTA H5A - CORNER MOUNT	MULTISENSOR DOME	10'-0"		11 13/16"	8'-6 3/8"			1	REFER TO 6/IT500 FOR CORNER CAMERA MOUNTING DETAIL.
2	SW EX	AVIGILON ALTA H5A - CORNER MOUNT	MULTISENSOR DOME	10'-0"		11 13/16"	8'-6 3/8"				REFER TO 6/IT500 FOR CORNER CAMERA MOUNTING DETAIL.
3	NC EX	AVIGILON ALTA H5A - CORNER MOUNT	MULTISENSOR DOME	10'-0"		11 13/16"	8'-6 3/8"				REFER TO 6/IT500 FOR CORNER CAMERA MOUNTING DETAIL.
4	NC EX	AVIGILON ALTA H5A - CORNER MOUNT	MULTISENSOR DOME	10'-0"		11 13/16"	8'-6 3/8"				REFER TO 6/IT500 FOR CORNER CAMERA MOUNTING DETAIL.
5	S EXT	AVIGILON ALTA H5A - WALL MOUNT	FIXED BULLET CAMERA	10'-0"	19'-8 7/32"	11 13/16"	8'-6 3/8"	12	12 - 48		REFER TO 4/IT500 FOR EXTERIOR MOUNTING DETAIL.
6	SE EX	AVIGILON ALTA H5A - CORNER MOUNT	MULTISENSOR DOME	10'-0"		11 13/16"	8'-6 3/8"				REFER TO 6/IT500 FOR CORNER CAMERA MOUNTING DETAIL.
7	NE EX	AVIGILON ALTA H5A - CORNER MOUNT	MULTISENSOR DOME	10'-0"		11 13/16"	8'-6 3/8"				REFER TO 6/IT500 FOR CORNER CAMERA MOUNTING DETAIL.
8	N EXT	AVIGILON ALTA H5A - WALL MOUNT	FIXED BULLET CAMERA	10'-0"	19'-8 7/32"	11 13/16"	8'-6 3/8"	12	12 - 48		REFER TO 4/IT500 FOR EXTERIOR MOUNTING DETAIL.
9	BREAKROOM 341	AVIGILON ALTA H6M - CEILING MOUNT	FIXED DOME CAMERAS	10'-0"	19'-8 7/32"	11 13/16"	8'-6 3/8"	2.4	2.4		REFER TO 2/IT500 FOR CEILING CAMERA MOUNTING DETAIL.
10	VESTIBULE 342	AVIGILON ALTA H5A - CEILING MOUNT	MULTISENSOR DOME	9'-0"		11 13/16"	8'-6 3/8"				REFER TO 2/IT500 FOR CEILING CAMERA MOUNTING DETAIL.
11	SAFE 341	AVIGILON ALTA H6M - CEILING MOUNT	FIXED DOME CAMERAS	8'-0"	19'-8 7/32"	11 13/16"	8'-6 3/8"	2.4	2.4		REFER TO 2/IT500 FOR CEILING CAMERA MOUNTING DETAIL.
12	CUST SRV 338 SE	AVIGILON ALTA H5A - CEILING MOUNT	MULTISENSOR DOME	9'-0"		11 13/16"	8'-6 3/8"				REFER TO 2/IT500 FOR CEILING CAMERA MOUNTING DETAIL.
13	CUST SRV 338 SW	AVIGILON ALTA H6M - CEILING MOUNT	FIXED DOME CAMERAS	9'-0"	19'-8 7/32"	11 13/16"	8'-6 3/8"	2.4	2.4		REFER TO 2/IT500 FOR CEILING CAMERA MOUNTING DETAIL.
14	CUST SRV 338 W	AVIGILON ALTA H6M - CEILING MOUNT	FIXED DOME CAMERAS	9'-0"	19'-8 7/32"	11 13/16"	8'-6 3/8"	2.4	2.4		REFER TO 2/IT500 FOR CEILING CAMERA MOUNTING DETAIL.
15	CUST SRV 338 NW	AVIGILON ALTA H6M - CEILING MOUNT	FIXED DOME CAMERAS	9'-0"	19'-8 7/32"	11 13/16"	8'-6 3/8"	2.4	2.4		REFER TO 2/IT500 FOR CEILING CAMERA MOUNTING DETAIL.
16	CUST SRV 338 NE	AVIGILON ALTA H6M - CEILING MOUNT	FIXED DOME CAMERAS	9'-0"	19'-8 7/32"	11 13/16"	8'-6 3/8"	2.4	2.4		REFER TO 2/IT500 FOR CEILING CAMERA MOUNTING DETAIL.

DOOR SCHEDULE

REFER TO 1/IT500 FOR DOOR ROUGH-IN DETAIL.

DOOR NUMBER	CARD READER	DOOR CONTACT	REQUEST EXIT (PIR)	ELECTRIC STRIKE	ELECTRIC LATCH	ELECTRIC PANIC	INTERCOM CAMERA	INTERCOM	LOCKDOWN (LD#)	DOOR SWITCH (DS#)	NOTES
100A	Yes	Yes	Yes	Yes	No	No	No	No	0	0	
100C	Yes	Yes	Yes	Yes	No	No	No	No	0	0	
102	Yes	Yes	Yes	Yes	No	No	No	No	0	0	
103	Yes	Yes	Yes	Yes	No	No	No	No	0	0	
107	Yes	Yes	Yes	Yes	No	No	No	No	0	0	
110	No	Yes	No	No	No	No	No	No	0	0	TIMERS ON LOCKS
111	No	Yes	No	No	No	No	No	No	0	0	
112	Yes	Yes	Yes	Yes	No	No	No	No	0	0	TIMERS ON LOCKS
113	Yes	Yes	Yes	Yes	No	No	No	No	0	0	

MASS NOTIFICATION SCHEDULE

SYMBOL	DESCRIPTION	MODEL
AMP	MASS NOTIFICATION AMPLIFIER WALL MOUNTED, TELEPHONE ACCESS MODULE	PROVIDED/INSTALLED BY OWNER AND DATA CABLE TO BE INSTALLED BY SECURITY ENGINEERING
S #	MASS NOTIFICATION SPEAKER OR DROP IN CEILING GRID SPEAKER - 8" MAIN CONE, 99HZ TO 20KHZ FREQUENCY RESPONSE, TRANSFORMER, 70V/25V LINE, POWER TAPS OF 4, 2, 1, 1/2, AND 1/4 WATTS. SUBSCRIPT "P" FOR PENDANT TYPE SPEAKER	PROVIDED/INSTALLED BY OWNER AND DATA CABLE TO BE INSTALLED BY SECURITY ENGINEERING

INTERCOM SCHEDULE

SYMBOL	DESCRIPTION	MODEL
A S	ELECTRONIC TWO-WAY, HANDSFREE AUDIO COMMUNICATIONS (DUPLEX) BETWEEN PARTITION. THE INSIDE OPERATOR CONTROLS THE OPERATION BY SPEAKING INTO THE GOOSENECK MICROPHONE. THE UNIT AUTOMATICALLY INITIATES THE "LISTEN" MODE WHEN THE OPERATOR DISCONTINUES SPEAKING INTO THE MICROPHONE. THE UST 1 IS FOUR INCHES IN DIAMETER AND EQUIPPED WITH AN OPERATOR-SIDE GOOSENECK MICROPHONE, POWER ON/OFF SWITCH, POWER ON GREEN LED, "TALK" COLUMNE CONTROL AND "LISTEN" VOLUME CONTROL. THE EXTERIOR OR CUSTOMER SIDE, IS EQUIPPED WITH A 2-1/4" FERRITE, MAGNET SPEAKER AND ELECTRET MICROPHONE. THE UNIT IS CONSTRUCTED OF MACHINED ALUMINUM AND FINISHED BLACK.	NORCON COMMUNICATIONS TTU-1 TTU-WHS-540 HEADSET SYSTEM

NETWORK SCHEDULE

LABEL	DESCRIPTION	MODEL
ER-5	EQUIPMENT NETWORK WALL RACK, SWING TYPE 24"HX24"DX24"W, BLACK, 19RU	PROVIDED / INSTALLED BY OWNERS INTEGRATOR SECURITY ENGINEERING
FDC-1	OPTICAL FIBER DISTRIBUTION CABINET, SINGLEMODE FIBER COMBINATION SHELF FOR 24 LC TERMINATIONS. 1RU	PROVIDED / INSTALLED BY OWNERS INTEGRATOR SECURITY ENGINEERING
MPP-1	FLAT MODULAR PATCH PANEL 24 PORT	PROVIDED / INSTALLED BY OWNERS INTEGRATOR SECURITY ENGINEERING
MTGB	PRE-ASSEMBLED BUS COPPER GROUND BAR.	PANDUIT GB2B0312TPI-1 NEWTON INSTRUMENTS ERICO STORM COPPER COMPONENTS GEORGIA COPPER OR AN APPROVED EQUAL
PS-1	POWER STRIP 20A, 5-15P, MOUNTED HORIZONTAL IN RACK.	PROVIDED / INSTALLED BY OWNERS INTEGRATOR SECURITY ENGINEERING
TTB-1	TELECOMMUNICATION TERMINAL BOARD; 3/4" PLYWOOD 4' X 8', PAINTED WHITE WITH FIRE RETARDANT PAINT.	
WM-1	WIRE MANAGEMENT HORIZONTAL 2 RACK UNITS	PROVIDED / INSTALLED BY OWNERS INTEGRATOR SECURITY ENGINEERING

ACCESS CONTROL SCHEDULE

SYMBOL	DESCRIPTION	MODEL
ACP-#	ACCESS CONTROL PANEL	PROVIDED/INSTALLED BY SECURITY ENGINEERING
AC	ACCESS CONTROLLED DOOR. REFER TO DOOR SCHEDULE FOR DOOR INFORMATION.	
CR	CARD READER - PROVIDE FLUSH SINGLE GANG JUNCTION BOX FOR CARD READER. FROM DEVICE TO JUNCTION BOX TO ABOVE ACCESSIBLE SPACE. MOUNT AT 42" A.F.F. SUBSCRIPT "M" FOR MULLION MOUNT.	PROVIDED/INSTALLED BY SECURITY ENGINEERING
DC	DOOR CONTACT - PROVIDE 1" DIAMETER HOLE IN THE FRAME. SNAP LOCK INSULATION BUSHING FOR TIGHT FIT.	PROVIDED/INSTALLED BY SECURITY ENGINEERING
ES	ELECTRIC STRIKE - CONCEALED WITH TAMPER REISSTANT [12 OR 24] VAC.	PROVIDED/INSTALLED BY SECURITY ENGINEERING
PB	PUSH BUTTON SHALL BE SURFACE MOUNTED UNDERNEATH WORK SURFACE. E.C. SHALL COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION. E.C. SHALL PROVIDE 22-2 WIRE BETWEEN ALARM SWITCH DEVICES AND CONTROL PANEL. WIRELESS DEVICE SECURITY VENDOR SHALL TEST MONITORING SYSTEM AFTER INSTALLATION.	PROVIDED/INSTALLED BY SECURITY ENGINEERING
REX	REQUEST TO EXIT. PROVIDE A FLUSH MOUNTED SINGLE GANG JUNCTION BOX CENTERED 12" ABOVE DOOR FRAME. CONNECTED TO DOUBLE GANG J-BOX ABOVE THE CEILING.	PROVIDED/INSTALLED BY SECURITY ENGINEERING

AV SCHEDULE

SYMBOL	DESCRIPTION	MODEL
MPWP-1	MEDIA PRESENTATION WALL PLATE. PROVIDE DOUBLE GANG BOX WITH 1" C. TO ABOVE ACCESSIBLE CEILING REFER TO FLOORPLAN FOR LOCATIONS.	REFER TO SPECIFICATION SECTION 274100 FOR ADDITIONAL INFORMATION.
TV-3	OUTDOOR DISPLAY 24"	REFER TO SPECIFICATION SECTION 274100 FOR ADDITIONAL INFORMATION.
TV-7	TV MONITORS 75" WITH BUILT IN SPEAKERS AND MOUNTING HARDWARE. COORDINATE LOCATION OF TV MONITOR AND MOUNTING HARDWARE PRIOR TO INSTALLATION.	REFER TO SPECIFICATION SECTION 274100 FOR ADDITIONAL INFORMATION.

INFORMATION OUTLET JACK LEGEND

SYMBOL	DESCRIPTION	MODEL #
B	BLANK MODULE	EQUIPMENT PROVIDED / INSTALLED BY OWNERS INTEGRATOR SECURITY ENGINEERING
#	CAT6 RJ-45 JACK #= QUANTITY OF DATA ALL ARE DATA UNLESS NOTED OTHERWISE	EQUIPMENT PROVIDED / INSTALLED BY OWNERS INTEGRATOR SECURITY ENGINEERING
	1 DATA JACK FOR CCTV SYSTEM	EQUIPMENT PROVIDED / INSTALLED BY OWNERS INTEGRATOR SECURITY ENGINEERING
	"F" TYPE COUPLER MODULE	EQUIPMENT PROVIDED / INSTALLED BY OWNERS INTEGRATOR SECURITY ENGINEERING
#	INFORMATION OUTLET ADAPTER - 4 PORT MOUNTED IN FLOORBOX PROVIDED BY OTHERS. SUBSCRIPT "#" QUANTITY OF CAT6 DATA CABLES	EQUIPMENT PROVIDED / INSTALLED BY OWNERS INTEGRATOR SECURITY ENGINEERING
#	INFORMATION OUTLET (1) 4" SQUARE BOX, SINGLE GANG PLASTER RING, FLUSH MOUNT ON WALL OR AS NOTED ON PLANS. SUBSCRIPT "#" QUANTITY OF CAT6 DATA CABLES	EQUIPMENT PROVIDED / INSTALLED BY OWNERS INTEGRATOR SECURITY ENGINEERING
WAP	CEILING WIRELESS ACCESS POINT: (1) CEILING SURFACE MOUNTED BOX SHALL BE SECURELY SUPPORTED ABOVE CEILING.	EQUIPMENT PROVIDED / INSTALLED BY OWNERS INTEGRATOR SECURITY ENGINEERING

CLOCK SCHEDULE

SYMBOL	DESCRIPTION	MODEL
C	BATTERY OPERATED CLOCK	EQUIPMENT PROVIDED/INSTALLED BY OWNER

CATV SCHEDULE

SYMBOL	DESCRIPTION	MODEL
VA/1	PROFESSIONAL QUALITY, TWO WAY, BROADBAND INDOOR MULTI CHANNEL RF DISTRIBUTION AMPLIFIER. PROFESSIONAL QUALITY, TWO WAY. WALL MOUNTED.	BLONDER TONGUE BIDA 750-30
TV	WALL CATV/INFORMATION OUTLET BW (1) 4 SQUARE BOX, SINGLE GANG PLASTER RING, FLUSH MOUNTED ON WALL OR AS NOTED ON PLANS. PROVIDE (1) CAT6 UTP HORIZONTAL CABLE. PROVIDE (1) HDMI CABLE BETWEEN CATV OUTLET BOX AND HDMI ROUGH-IN. REFER TO 1/IT600 FOR INFORMATION OUTLET TYPES.	FACEPLATE: PANDUIT CFPE1IGY BLANK PLATE: PANDUIT CMBWH-X F-CONNECTOR: PANDUIT CMFWH JACK: CAT6: PANDUIT CJ688TGWH HDMI CABLE: EXTRON

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Revisions

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