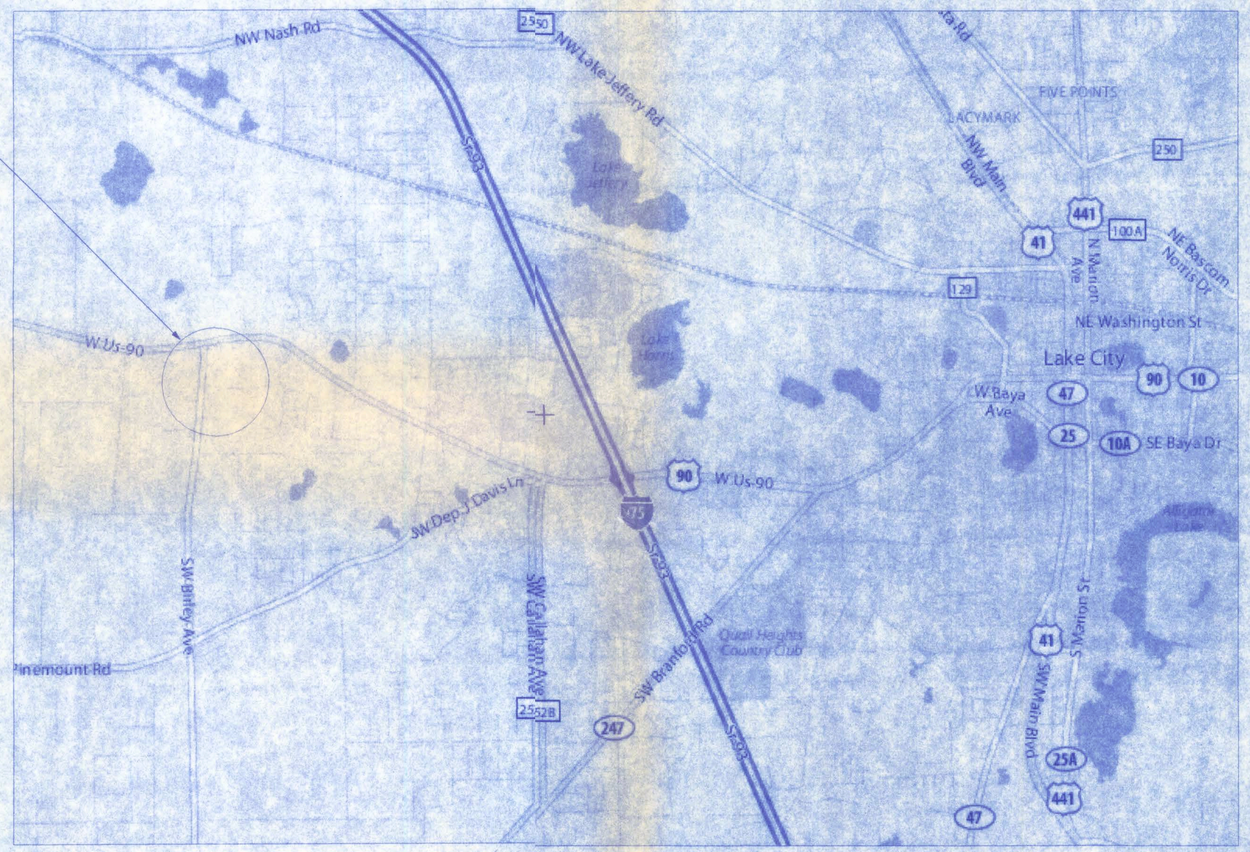
HART-2-HART ACADEMY

LAKE CITY, FLORIDA

PROJECT LOCATION



TO BRANFORD

LOCATION MAP

INDEX OF SHEETS

PLANS PREPARED FOR:

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PLANS PREPARED BY:

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CERTIFICATE OF AUTHORIZATION # 26809

William H. Free
12/16/08
PE # 56001

GENERAL NOTES

DESIGN CRITERIA

D1 ALL WORK SHALL CONFORM TO AT LEAST THE MINIMUM STANDARD OF THE FOLLOWING CODES:
2004 FLORIDA BUILDING CODE, BUILDING (w/2006 REVISION)
2004 FLORIDA BUILDING CODE, FUEL GAS
2004 FLORIDA BUILDING CODE, MECHANICAL
2004 FLORIDA BUILDING CODE, PLUMBING
2006 FLORIDA FIRE PREVENTION CODE
2005 NATIONAL ELECTRIC CODE.

D2 DESIGN LOAD VALUES:

ROOF LIVE LOADS	20 PSF
ROOF DEAD LOADS	10 PSF
CORRIDOR LIVE LOADS	100 PSF
CLASSROOM LIVE LOADS	60 PSF
FLOOR DEAD LOADS	20 PSF
ASSUMED ALLOWABLE SOIL BEARING CAPACITY	2000 PSF

D3 THE STRUCTURAL PLANS AND WIND SPEED HAVE BEEN DESIGNED IN ACCORDANCE WITH SECTION 1609 OF THE FLORIDA BUILDING CODE 2004 EDITION, w/2006 REVISIONS.

GENERAL

G1 THE GENERAL CONTRACTOR SHALL REVIEW AND DETERMINE THAT DIMENSIONS ARE COORDINATED BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO FABRICATION OR START OF CONSTRUCTION.

G2 THE GENERAL CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, THE WORK PERSONS, AND OTHER PEOPLE DURING CONSTRUCTION. HE SHALL SUPERVISE AND DIRECT THE WORK AND BE RESPONSIBLE FOR ALL CONSTRUCTION & FOR ALL JOBSITE SAFETY.

G3 NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED, OR OTHERWISE REDUCED IN STRENGTH.

G4 THE GENERAL CONTRACTOR SHALL COORDINATE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ANCHORS, EMBEDDED AND SUPPORTED ITEMS WHICH AFFECT THE STRUCTRAL DRAWINGS AND NOTIFY THE ARCHITECT/ENGINEER ON ANY DISCREPANCIES.

G5 ANY SUBMITTALS RECEIVED BY A/E THAT HAVE NOT BEEN CHECKED BY THE GC AND HIS SUBCONTRACTOR SHALL BE RETURNED WITHOUT REVIEW.

G6 ALL SECTIONS AND DETAILS SHALL BE CONSTRUED TO BE TYPICAL OR SIMILAR UNLESS ANOTHER SECTION OR DETAIL IS NOTED.

G7 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION, INCLUDING FABRICATION. ALL DISCREPANCIES SHALL BE REPORTED TO THE A/E FOR RESOLUTION.

FOUNDATIONS

F1 A GEOTECHNICAL REPORT FOR THIS PROJECT WAS NOT PROVIDED BY THE OWNER. THESE PLANS ARE BASED UPON AN ASSUMED ALLOWABLE BEARING CAPACITY OF 2000 PSF. AT THE OWNER'S REQUEST, THE CONTRACTOR SHALL ENGAGE A QUALIFIED AND CERTIFIED GEOTECHNICAL ENGINEER TO DETERMINE THE ALLOWABLE SOIL BEARING CAPACITY. A COPY OF THE REPORT SHALL BE PROVIDED TO THE A/E. IF THE DETERMINED ALLOWABLE BEARING CAPACITY IS LESS THAN THE ASSUMED VALUE, MODIFICATIONS TO THE FOUNDATIONS MAY BE REQUIRED.

F2 THE GEOTECHNICAL ENGINEER SHALL MAKE A FIELD INVESTIGATION TO DETERMINE IF ANY SOIL CONDITIONS ARE PRESENT THAT MAY ADVERSELY AFFECT THE PROJECT. THE CONTRACTOR SHALL REMOVE ALL SUCH MATERIAL AND REPLACE IT WITH APPROVED FILL.

F3 SUBGRADE UNDER FOOTINGS AND SLABS SHALL BE COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557). SUBMIT DENSITY TESTS TO THE A/E.

SLABS ON GRADE

S1 PROVIDE 8 MIL POLYETHYLENE SHEETING UNDER ALL SLABS ON GRADE.

S2 PROVIDE CONTROL JOINTS (1/4" WIDE BY 3/8" DEEP) [MAY/R MAY NOT BE INDICATED ON PLAN]. FILL JOINTS WITH POURED RUBBER. IF JOINTS ARE SAWCUT, SAWCUTTING MUST BE DONE THE SAME DAY THE CONCRTE IS PLACED.

S3 PROVIDE 1/2" EXPANSION JOINTS AT ALL LOCATIONS WHEE SLABS ABUT STRUCTURES (WALLS, COLUMNS, ETC.)

CONCRETE AND REINFORCING

C1 AT THE OWNER'S REQUEST, THE GENERAL CONTRACTOR SHALL ENGAGE A CERTIFIED TESTING AGENCY TO PERFORM INDUSTRY STANDARD TESTING INCLUDING SLUMP TESTS AND CYLINDER BREAKS TO ENSURE CONFORMANCE WITH PLANS. SUBMIT REPORTS TO A/E.

C2 CONCRETE WORK & MIX DESIGN SHALL CONFORM TO ACI 301 (LATEST EDITION) "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". MIXING SHALL BE IN ACCORDANCE WITH ASTM C94

C3 MINIMUM 28-DAY COMPRESSIVE STRENGTH:

FOOTINGS AND TIE BEAMS	2,500 PSI
COLUMNS AND SLABS	2,500 PSI

C4 SPLICES OF REINFORCING (EXCEPT AS SHOWN ON PLANS)

#4 BARS	20 INCHES
#5 BARS	27 INCHES
WELDED WIRE MESH	6"

C5 AT ALL CORNERS OF TIE BEAMS AND WALL FOOTINGS, PROVIDE CORNER BARS (30 INCH MINIMUM LEGS) TO MATCH HORIZONTAL BARS.

C6 REINFORCING BARS SHALL CONFORM TO ASTM A615-96a GRADE 60. WELDED WIRE MESH SHALL CONFORM TO ASTM A-185. LAP WELDED WIRE MESH ON MESH + 2" WHERE SPLICED.

C7 MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHEWISE NOTED.

LOCATION	MIN. COVER
BOTTOM OF FOOTINGS	3"
SIDES OF FOOTINGS	3"
COLUMNS	1 1/2"
TIE BEAMS	1 1/2"
SLABS	AS NOTED

PRE-FABRICATED WOOD TRUSSES

WT1 GENERAL CONTRACTOR SHALL ENGAGE A CERTIFIED TESTING AGENCY TO PERFORM INDUSTRY STANDARD INSPECTIONS TO ENSURE CONFORMANCE WITH PLANS. SUBMIT REPORTS TO A/E.

WT2 WOOD TRUSSES SHALL BE DESIGNED, SIGNED & SEALED BY A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA. TRUSSES SHALL BE FABRICATED IN CONFORMANCE WITH THE THE "QUALITY CONTROL MANUAL" BY THE TRUSS PLATE INSTITUTE (TPI).

WT3 HANDLING, ERECTION AND BRACING OF WOOD TRUSSES SHALL BE IN ACCORDANCE WITH "HANDLING AND ERECTING WOOD TRUSSES" (HET80) AND "BRACING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS" (BWT-76) BY THE TRUSS PLATE INSTITUTE (TPI).

WT4 PERMANENT BRACING SHALL BE INDICATED IN THE TRUSS LAYOUT DRAWINGS AND SHALL BE SUPPLIED AND INSTALLED BY THE FRAMING CONTRACTOR.

WT5 TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS:

DEAD LOAD	10 PSF
LIVE LOAD	20 PSF
WIND	110 MPH

WT6 PRE-FABRICATED WOOD TRUSSES SHALL BE FABRICATED FROM SOUTHERN PINE (SPIB) KILN DRIED #2 GRADE OR BETTER FOR CHORD AND #3 GRADE OR BETTER FOR WEBS.

WT7 TRUSS BEARING SHALL BE 4" NOMINAL UNLESS NOTED OTHERWISE. BEARING LOCATIONS MUST BE MARKED ON TRUSS BY FABRICATOR TO INSURE PROPER INSTALLATION.

WT8 SHOP DRAWINGS SHALL BE SUBMITTED WHICH INDICATE DESIGN LOADS, DURATION FACTOR TRUSS LAYOUT, TRUSS CONFIGURATION AND TRUSS TO TRUSS CONNECTION. SHOP DRAWINGS SHALL SHOW PIECE MARKS, MEMBER SIZE AND GRADE AND CONNECTION DETAILS.

WT9 NO WANE KNOTS, SKIPS OR OTHER DEFECTS SHALL OCCUR IN THE PLATE CONTACT AREA OR SCARFED AREA OF WEB MEMBERS. PLATES SHALL BE CENTERED WITH ONE REQUIRED EACH SIDE OR TRUSS.

WT10 DESIGN OF METAL CONNECTED WOOD ROOF TRUSSES TO COMPLY WITH STANDARD BLDG. CODE NFPA'S "NATIONAL DESIGN SPECIFICATIONS FOR STRESS GRADED LMUBER AND ITS FASTENINGS", AND THE TRUSS PLATE INSTITUTE'S "DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES".

WT11 WOOD BLOCKING AT TRUSS BEARING SHALL BE LAP SPLICED 4'-0" MIN. AND NAILED WITH (20) 10d NAILS AT SPLICE, 10d NAILS @ 16" O.C. ELSEWHERE.

MASONRY

M1 MASONRY CONSTRUCTION SHALL CONFORM TO ACI STANDARD BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES (ACI 530-05/ASCE 5-05) AND SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1-05/ASCE 6-05)

M2 CONCRETE BLOCKS SHALL CONFORM TO ASTM C-90 (f'm = 1500 PSI) (1900 PSI ON THE NET AREA)

M3 MORTAR SHALL COMPLY WITH ASTM C270 TYPE M OR S (COMPRESSIVE STRENGTH = 2500 PSI AND 1800 PSI) RESPECTIVELY. SITE TESTED MORTAR CUBES SHALL ACHIEVE A MINIMUM OF 80% OF THE DESIGN COMPRESSIVE STRENGTH.

M4 BLOCK SHALL NOT BE MOISTENED BEFORE GROUTING.

M5 ALL MASONRY CROSS WEBS SHALL BE FULLY BEDDED IN MORTAR AROUND CELLS TO BE GROUTED.

M6 THE MINIMUM CONTINUOUS UNOBSTRUCTED CELL AREA IN CELL TO RECEIVE GROUT MUST BE NOT LESS THAN 2" x 3". MORTAR FINS MUST BE REMOVED AS BLOCK PLACEMENT PROCEEDS. MORTAR DROPPINGS MUST BE KEPT OUT OF CELLS WHICH ARE TO BE GROUTED.

M7 REINFORCE WALLS WITH LADDER TYPE (ASTM A-82, #9 GAGE WIRE) REINFORCEMENT EQUAL TO DURO-WALL IN BED JOINTS @ 16" O.C. MEASURED VERTICALLY. PLACE PER MFR. INSTR. LAP ALL HORIZONTAL JOINT REINFORCING 6" MIN.

M8 CORES OR BLOCK MASONRY SHALL BE FILLED WITH GROUT AT CORNERS, EACH SIDE OF OPENINGS, AND @ 48" O.C. WITH MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. GROUT SLUMP SHALL BE 8" TO 11" FOR MASONRY FILLED CELLS.

M9 GROUT FOR FILLED CELLS SHALL BE POURED OR PUMPED IN LIFTS NOT TO EXCEED EIGHT (8) FEET IN HEIGHT, AND SHALL BE CONSOLIDATED AT TIME OF POURING BY RODDING OR VIBRATING.

M10 PROVIDE KNOCK-OUT CMU AT BASE OF EACH FILLED CELL TO ALLOW VISUAL VERIFICATION OF COMPLETE GROUT PENETRATION (FOR LIFTS OF 5'-0" OR LESS, A KNOCK OUT AT BASE OF LIFT WILL NOT BE REQUIRED).

M11 VERTICAL REINFORCING MUST HAVE A MIMUM CLEARANCE OF 1/2" TO INSIDE FACE. VERTICAL REINFORCEMENT IN WALLS SHALL BE SECURED AND LATERALLY SUPPORTED AGAINST DISPLACEMENT AT INTERVALS NOT EXCEEDING 6 FT

M12 GROUT PLACEMENT STOPPED FOR (1) HOUR OR MORE SHALL BE STOPPED (1 1/2") BELOW THE TOP OF THE MASONRY UNIT TO PROVIDE A KEY FOR SUBSEQUENT GROUTING.

M13 SEE FOUNDATION PLANS FOR ALL VERT. REINFORCING. TYP. VERTICAL REINFORCING SIZE & SPACING SHALL BE ABOVE AND BELOW ALL WALL OPENINGS.

M14 TEMPORARY BRACING AND SHORING OF WALLS TO PROVIDE STABILITY DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.

M15 MASONRY CONSTRUCTION MATERIALS AND INSPECTIONS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI-ASCE 530.1)" EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE DOCUMENTS.

M16 PROVIDE FILLED PRECAST U-LINTELS W/ (1) #5 CONT. AT ALL OPENINGS WHERE CONCRETE BEAMS ARE NOT SHOWN OR NOTED. MINIMUM UNFILLED LINTEL CAPACITY = 400 lb/LF FOR SPAN INDICATED. SEE PLANS FOR LINTEL REQUIREMENTS AT DOOR OPENINGS.

M17 STOPPING AND RESUMING WORK: RACK BACK 1/2- UNIT LENGTH IN EACH COURSE. DO NOT TOOTH. CLEAN EXPOSED SURFACES OF SET MASONRY WET UNITS LIGHTLY (IF REQ'D.) AND REMOVE LOOSE MASONRY UNITS AND MORTAR PRIOR TO LAYING FRESH MASONRY

M18 REINFORCE MASONRY OPENINGS GREATER THAN 1'-0" WIDE WITH HORIZ. JT. REINF. PLACED IN (2) HORIZ. JTS. APPROXIMATELY 8" APART, IMMEDIATELY ABOVE THE LINTEL AND IMMEDIATELY BELOW THE SILL. EXTEND REINFORCING A MINIMUM OF 2'-0" BEYOND JAMBS OF THE OPENING EXCEPT AT CONTROL JOINTS. SEE PLAN FOR ADDITIONAL REQUIREMENTS.

M19 DO NOT APPLY UNIFORM LOADS TO MASONRY WALLS FOR (3) DAYS

M20 DO NOT APPLY CONCENTRATED LOADS TO MASONRY WALLS FOR (7) DAYS.

M21 EXTEND ALL VERTICAL REINFORCEMENT TO WITHIN 2" OF TOP OF TIE BEAMS UNLESS OTHERWISE NOTED.

NOTE:
ALL WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609, FLORIDA BUILDING CODE, 2004 EDITION w/2006 REVISIONS, AND IN ACCORDANCE WITH ASCE-7

BASIC WIND SPEED		110 MPH
IMPORTANCE FACTOR		1.0
BUILDING CATEGORY		2
EXPOSURE		B
INTERNAL PRESSURE COEFFICIENT		+/- 0.18
COMPONENT AND CLADDING PRESSURE	WALLS	+21.8/-29.1 PSF
	ROOF	+12.5/-29.1 PSF
	OVERHANGS	-71.6 PSF
TYPE OF STRUCTURE		ENCLOSED
ROOF DEAD LOAD		10 psf
ROOF LIVE LOAD		20 psf
FLOOR DEAD LOAD		20 psf
FLOOR LIVE LOAD		40 psf

NOTE:
EXTERIOR WINDOWS AND GLASS DOORS SHALL BE TESTED BY AN APPROVED INDEPENDENT TESTING LABORATORY, AND BEAR AN AAMA OR WDMA OR OTHER APPROVED LABEL IDENTIFYING THE MANUFACTURER, PERFORMANCE CHARACTERISTICS AND APPROVED PRODUCT EVALUATION ENTITY TO INDICATE COMPLIANCE WITH THE REQUIREMENTS OF THE FOLLOWING SPECIFICATION:

ANSI/AAMA/NWWDA 101/IS2.2/97

THE CONSTRUCTION SHALL BE TESTED IN ACCORDANCE WITH ASTM E 330, STANDARD TEST METHODS FOR STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, AND DOORS BY UNIFORM STATIC AIR PRESSURE.

BUILDING USE, CLASSIFACATION & OCCUPANCY AS PER TABLES 503 & 1004.2.1, FLORIDA BUILDING CODE, 2004 ED.	
BUILDING GROUP OCCUPANCY	GROUP D
TABLE 503 TYPE OF CONSTRUCTION	TYPE V-B
TABLE 503 AREA/HEIGHT LIMITATIONS	12.0 KSF/1 STORY
OCCUPANCY	
LOAD CAPACITY: DAY-CARE: 20 SF/PERSON NET	4117.5 SF/ 20 = 206 PERSONS 206 OCCUPANTS

MAX. ALLOWABLE TRAVEL DISTANCE = 150'
MAX. ACTUAL TRAVEL DISTANCE = 70'-6"

MAX. ALLOWABLE DEAD END = 20'-0"
MAX. ACTUAL DEAD END = NONE

William H. Hart 12/10/08 P.E. # 37040

HART-2-HART ACADEMY

128 S.W. NASSAU STREET
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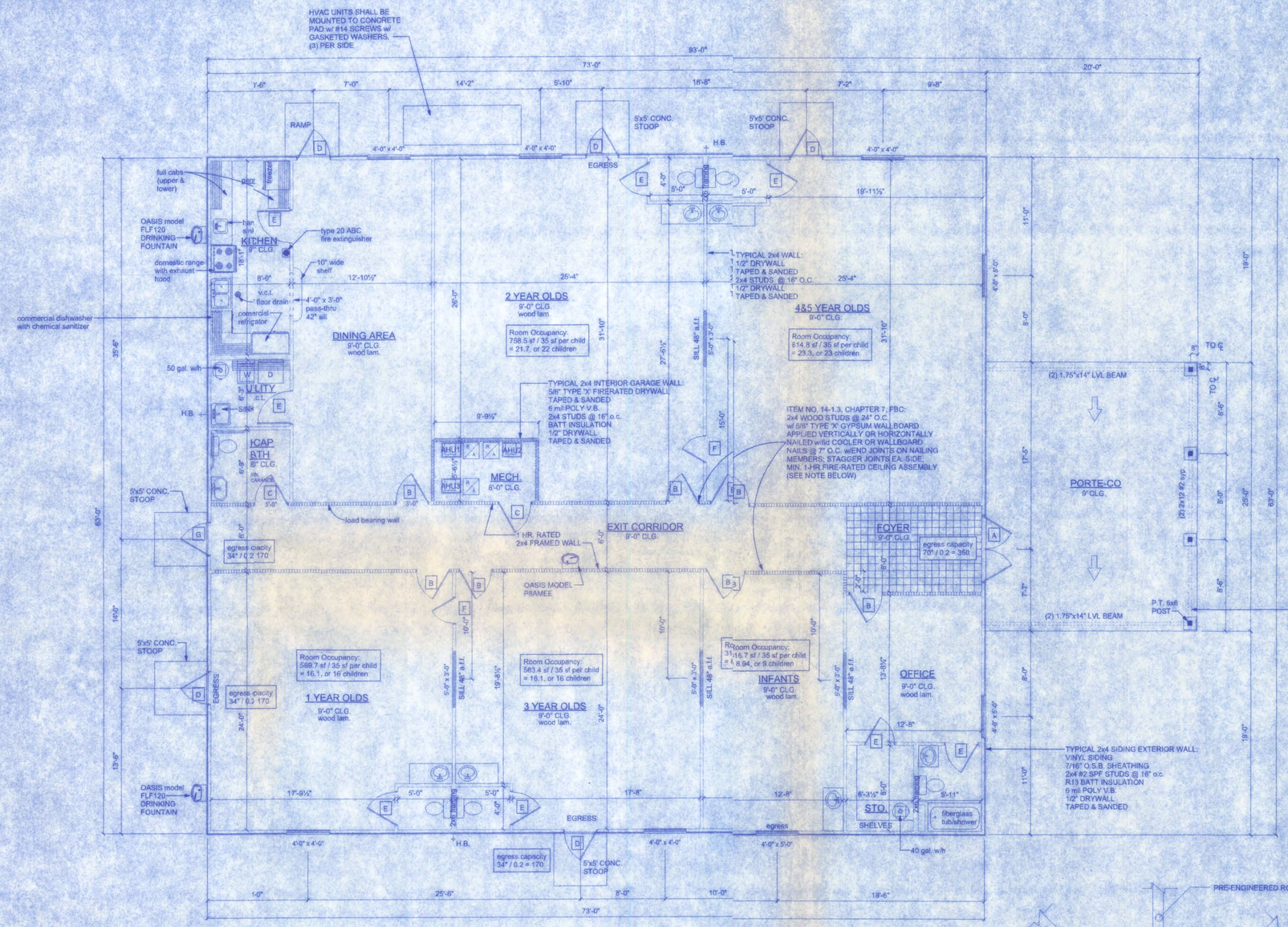
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 00008701
Freeman Design Group Inc

DAT: 12/08/08	DRAWN BY J.T.D.
	APPROVED W.H.F.

REVISIONS

SHEET A-1
OF 11

PROJECT NO. 08.C040



FLOOI PLAN

SCALE: 3'6" = 1'-0"

NOTE:
CONDENSATE LINES AND ROOF DOWN SPOUTS SHALL DISCHARGE AT LEAST ONE FOOT AWAY FROM THE STRUCTURE SIDEWALL. IN CASES WHERE THE ROOF EAVE IS LESS THAN 6 INCHES, GUTTERS MUST BE INSTALLED AND DIRECT WATER A MINIMUM OF 1 FOOT FROM THE STRUCTURE.

NOTE:
CONDENSATE WASTE AND DRAIN LINE SIZE SHALL BE NOT LESS THAN 3/4" INTERNAL DIAMETER AND SHALL NOT DECREASE IN SIZE FROM THE DRAIN PAN CONNECTION TO THE PLACE OF CONDENSATE DISPOSAL.

NOTE:

THE MAXIMUM OCCUPANT LOAD FOR THIS CHILD-CARE FACILITY IS AS FOLLOWS:

NET AREA / MIN. OCC. LOAD = 4117.5 / 20 = 205.875, OR 206 OCCUPANTS.

THE ALLOWABLE OCCUPANT CONTENT FOR CHILD / DAY-CARE FACILITIES MUST NOT EXCEED THE CAPACITY OF EGRESS ELEMENTS AS DETERMINED BY THE FOLLOWING:

(NO. DOORS x EGRESS WIDTH) / WIDTH PER PERSON SERVED = (5 x 34") = (1 x 70") / 0.2" PER PERSON = 240 / 0.2 = 1200 PERSONS THEREFORE, EGRESS CAPACITY IS 1200 PERSONS.

THE MAIN ENTRANCE MUST ACCOMODATE 50% OF THE OCCUPANT LOAD. OR 206 / 2 = 103 PERSONS.

MAIN ENTRANCE EGRESS CAPACITY IS DETERMINED AS FOLLOWS:
2 DOORS x 35 INCHES = 70 / 0.2 = 350 PERSONS, WHICH DOES SATISFY MORE THAN 50% OF THE OCCUPANT LOAD.

NOTE:
provide a readily visible sign on or adjacent to all egress doors stating: THIS EXIT TO REMAIN UNLOCKED WHEN THIS BUILDING IS OCCUPIED. the sign shall have 1" lettering with contrasting background.

NOTE:
FOR DOORS A THRU E SEE DOOR SCHEDULE, SHEET A-10

NOTE:
20 MIN. FIRE RATED DOOR SHALL BE ALLOWED TO HAVE A 10" x 10" (MAXIMUM) WINDOW WITHOUT WIRE GLAZING; WITH WIRE GLAZING, THERE SHALL BE NO LIMIT ON SIZE.

MINIMUM FIRE RATED CEILING CONSTRUCTION:
26 GAGE RESILIENT CHANNELS PERPENDICULAR TO TRUSSES @ 24" O.C., SECURED w/ 1-1/4" TYPE 'S' STEEL SCREWS. 5/8" TYPE 'X' FIRERATED DRYWALL, SECURED w/ 1" DRYWALL SCREWS TAPED & SANDED (SEE DETAIL THIS SHEET)

NOTE:
EXTERIOR WINDOWS AND GLASS DOORS SHALL BE TESTED / AN APPROVED INDEPENDENT TESTING LABORATORY, AND BAR AN AAMA OR WDMA OR OTHER APPROVED LABEL IDENTIFYIN THE MANUFACTURER, PERFORMANCE CHARACTERISTICS AND APPROVED PRODUCT EVALUATION ENTITY TO INDICATE COMLIANCE WITH THE REQUIREMENTS OF THE FOLLOWING SPECIFICATIN:

ANSI/AAMA/NWWDA 101/IS2 2/97

THE CONSTRUCTION SHALL BE TESTED IN ACCORDANCE WITH ASTM E 330, STANDARD TEST METHODS FOR STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, AND DOORS BY UNIFORM STATIC AIR PRESSURE.

AREA SUMMARY:

MAIN FLOOR:	4,599 SF
PORTE-CO:	500 SF
TOTAL:	5,099 SF

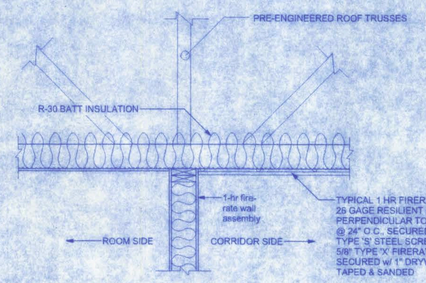
AREA SUMMARY:

INFANTS:	316.7 SF
1 YR OLDS:	569.7 SF
2 YR OLDS:	563.4 SF
3 YR OLDS:	758.5 SF
4/5 YR OLDS:	814.8 SF

WINDOW SCHEDULE

PRODUCT CODE	SIZE	COUNT
(2) SH 4050 CAPITOL 650 SERIES	4'-0" x 5'-0"	3
SH 4040 CAPITOL 650 SERIES	4'-0" x 4'-0"	5

NOTE: VERIFY ROUGH OPENING SIZE



TYP. 1-HOUR CEILING
(UL 263)

HART-2-HART ACADEMY

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Freeman Design Group

DATE 12/08/08	DRAWN BY J.T.O.
	APPROVED W.H.F.

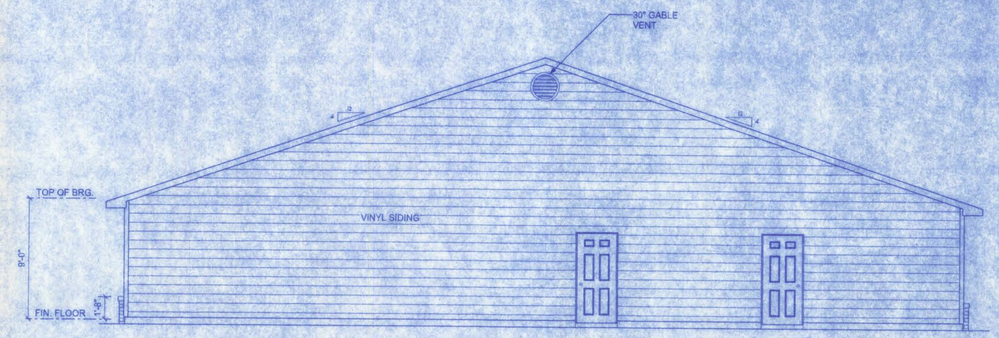
REVISIONS

SHEET A-2
OF 11

PROJECT NO. 08.C040

FRONT ELEVATION

SCALE: 3/16" = 1'-0"



REAR ELEVATION

SCALE: 3/16" = 1'-0"

NOTE: VENTILATE ROOF TO 1/300TH THE INSULATED ATTIC.
(4,599 SF / 300 = 15.33 SF * 144 SQ.IN./SF = 2,207.52 SQ. IN.)

CONSTRUCTION DOCUMENTS:

THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITY OR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR IS SOLLY RESPONSIBLE FOR REVIEWING THE PLANS AND VERIFYING ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION INCLUDING FABRICATION. ALL DISCREPANCIES SHLL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION.

DO NOT SCALE THESE PLANS:

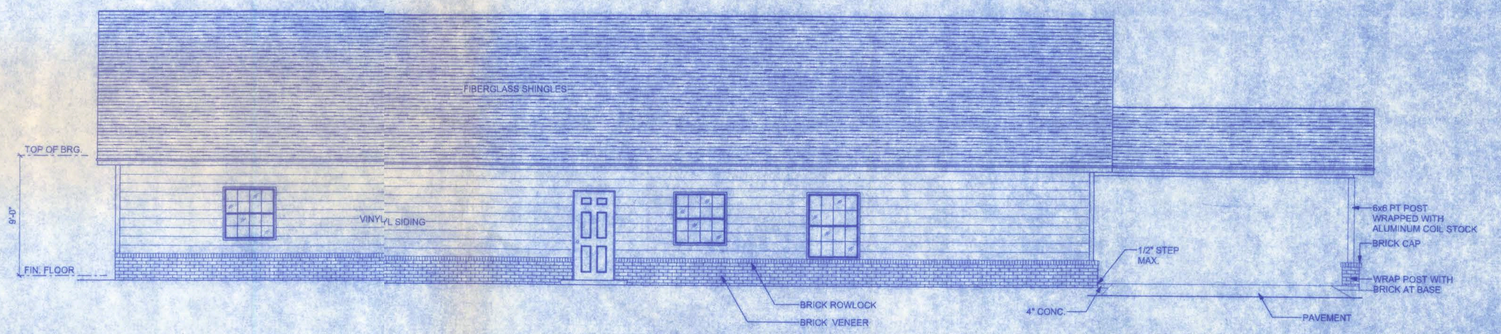
AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITMS. SIMPLE ARITHMATIC MAY BE USED TO DETERMINE THE LOCATION OF THOSE ITEMS NOT DIMENSIONED.

CHANGES TO PLAN SETS:

PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THES PLANWITHOUT CONSULTING WITH THE ARCHITECT/ENGINEER. THE OWNER SHALLASSUME ANY AND ALL LIABILITY FOR STRUCTURAL DAMAGE RESULTING FROM CANGES MADE TO THE PLANS OR BY SUBSTITUTION OF MATERIALS DIFFERENT FRM SPECIFICATIONS ON THE PLANS.

GENERAL NOTES:

1. THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ALL CLAIMS, WHETHER FROM PERSONAL INJURY OR PROPERTY DAMAGE, ARISING FORM EVENTS ASSOCIATED WITH THE WORK PERFORMED UNDER THE CONTRACT FOR THIS PROJECT.
2. THE CONTRACTOR AND/OR SUB-CONTRACTORS SHALL WARRANT ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING THE WORK DATE OF FINAL COMPLETION AND ACCEPTANCE BY THE OWNER. DEFECTS IN MATERIALS, EQUIPMENT, COMPONENTS AND WORKMANSHIP SHALL BE CORRECTED AT NO FURTHER COST TO THE OWNER DURING THE ONE YEAR WARRANTY PERIOD.
3. AT THE OWNER'S OPTION, A WARRANTY INSPECTION SHALL BE PERFORMED DURING THE ELEVENTH MONTH FOLLOWING THE COMMENCEMENT OF THE WARRANTY PERIOD, FOR THE PURPOSE OF DETERMINING ANY WARRANTY WORK THAT MAY BE REQUIRED. THE CONTRACTOR SHALL BE PRESENT DURING THIS INSPECTION IF REQUESTED BY THE OWNER.
4. THE CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES, TESTS AND THE LIKE THAT MAY BE REQUIRED BY THE VARIOUS AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT BE THEY CITY, COUNTY, STATE OR FEDERAL.
5. THE OWNER SHALL FILE A "NOTICE OF COMMENCEMENT" PRIOR TO THE BEGINNING OF THE PROJECT AND THE CONTRACTOR(S) SHALL FILE "NOTICE TO OWNER" AND PROVIDE "RELEASE OF LIEN" FOR ALL PAYMENT REQUESTS PRIOR TO DISBURSEMENT OF ANY FUNDS.
6. ANY AND ALL DISPUTES ARISING FROM EVENTS ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT BETWEEN THE OWNER, CONTACTOR(S) AND SUPPLIERS SHALL BE RESOLVED THROUGH BINDING ARBITRATION.
7. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND LOCAL REGULATIONS, INCLUDING APPLICABLE ENERGY CODES. ALL COMPONENTS OF THE BUILDING SHALL MEET WITH THE MINIMUM ENERGY REQUIREMENTS OF THE BUILDING CODE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IN WRITING PRIOR TO THE COMMENCEMENT OF THE WORK.
8. ALL INSULATION SHALL BE LEFT EXPOSED AND ALL LABELS LEFT INTACT ON THE WINDOWS AND DOORS UNTIL INSPECTED BY THE BUILDING OFFICIAL.
9. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.



LEFT ELEVATION

SCALE: 3/16" = 1'-0"

NOTE:

THE RIDGE HEIGHT IS GIVEN FOR MEAN ROOF HEIGHT DETERMINATION ONLY. DO NOT USE THIS DIMENSION FOR ROOF CONSTRUCTION.

RIGHT ELEVATION

SCALE: 3/16" = 1'-0"

HART-2-HART ACADEMY

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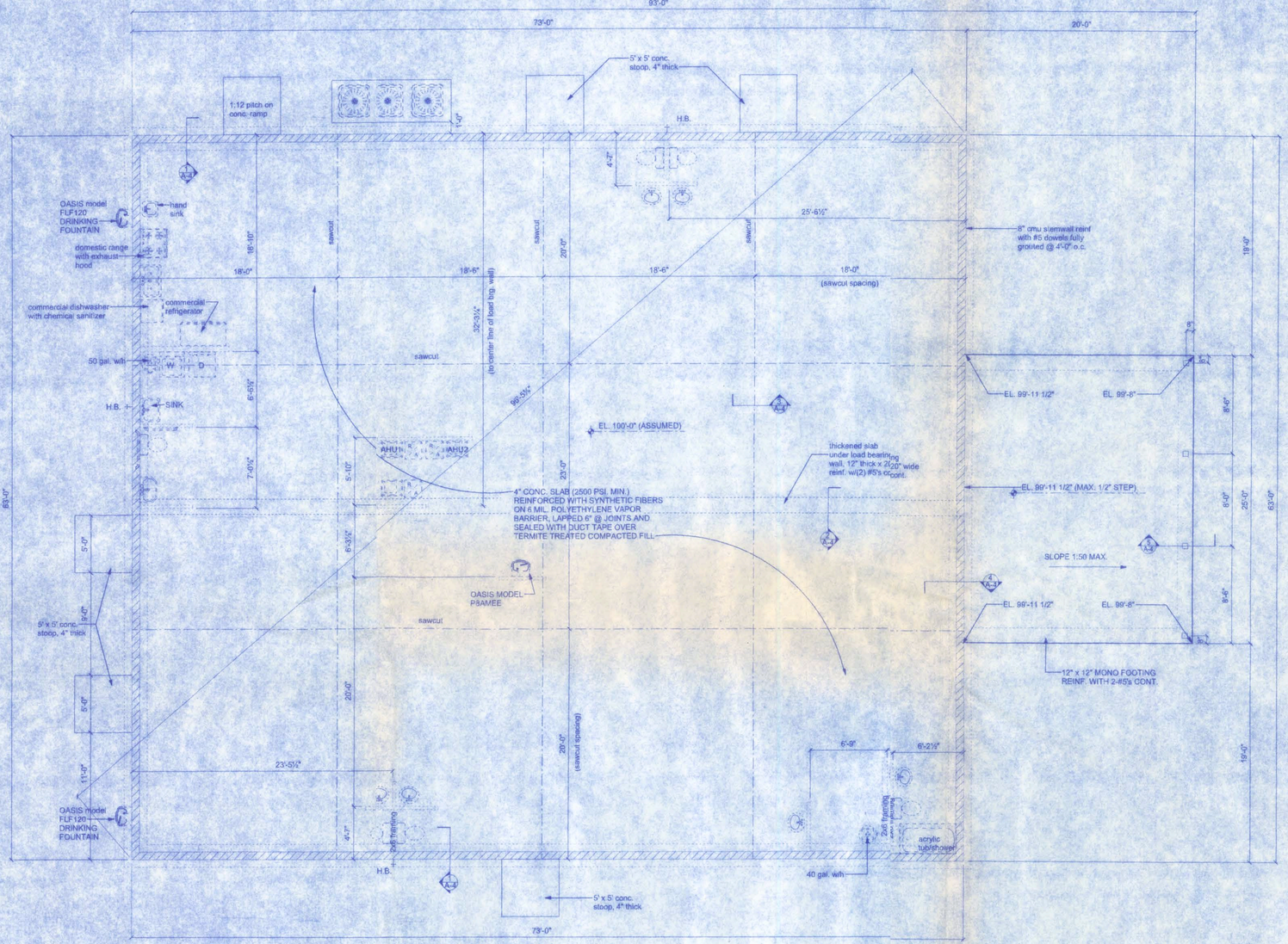
Freeman Design Group inc

DATE	DRAWN BY
12/08/06	J.T.D.
	APPROVED W.H.F.

REVISIONS

SHEET A-3 OF 11

PROJECT NO. 06.C040



FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

FOUNDATION NOTES:

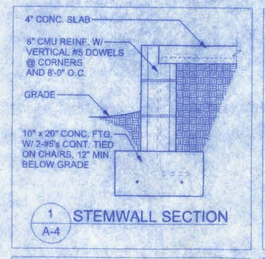
CONCRETE:
CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.

GALVANIZATION:
METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153, CLASS B-2. METAL PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.

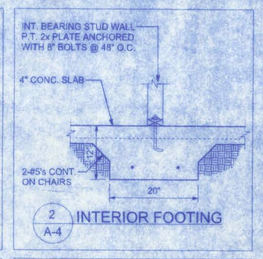
REINFORCING STEEL:
THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:
1. ALL REINFORCEMENT IS BENT COLD
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX BAR DIAMETERS AND
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.
   EXCEPTION: WHERE BENDING IS NECESSARY TO ALIGN DOWEL BARS WITH A VERTICAL CELL, BARS PARTIALLY EMBEDDED IN CONCRETE SHALL BE PERMITTED TO BE BENT AT A SLOPE OF NOT MORE THAN 1 INCH OF HORIZONTAL DISPLACEMENT TO 6 INCHES OF VERTICAL BAR LENGTH.

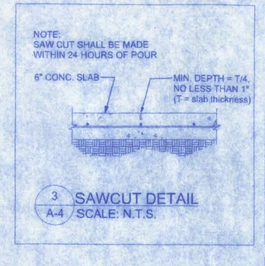
COVER OVER REINFORCING STEEL:
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE:
3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER AND 1 1/2 INCHES ELSEWHERE. REINFORCING BARS EMBEDDED IN GROUTED CELLS SHALL HAVE A MINIMUM CLEAR DISTANCE OF 1/4 INCH FOR FINE GROUT, OR 1/2 INCH FOR COARSE GROUT, BETWEEN REINFORCING BARS AND ANY FACE OF A CELL. REINFORCING BARS USED IN MASONRY WALLS SHALL HAVE A MASONRY COVER (INCLUDING GROUT) OF NOT LESS THAN:
2 INCHES FOR MASONRY UNITS WITH FACE EXPOSED TO EARTH OR WEATHER
1 1/2 INCHES FOR MASONRY UNITS NOT EXPOSED TO EARTH OR WEATHER



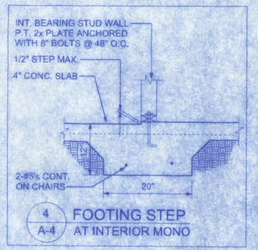
1 A-4 STEMWALL SECTION



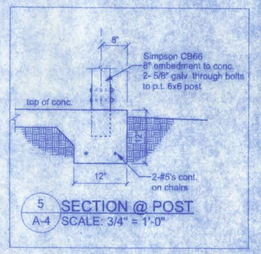
2 A-4 INTERIOR FOOTING



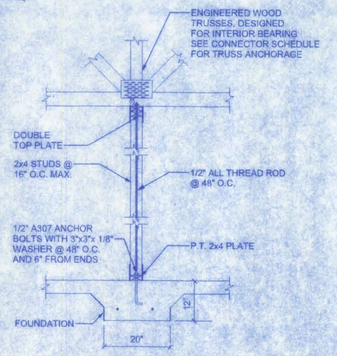
3 A-4 SAWCUT DETAIL
SCALE: N.T.S.



4 A-4 FOOTING STEP AT INTERIOR MONO



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



INTERIOR BRG. WALL DETAIL

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

HART-2-HART ACADEMY

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CERTIFICATE OF AUTHORIZATION # 00008701

DATE	DRAWN BY
12/08/06	J.T.O.
	APPROVED W.H.F.

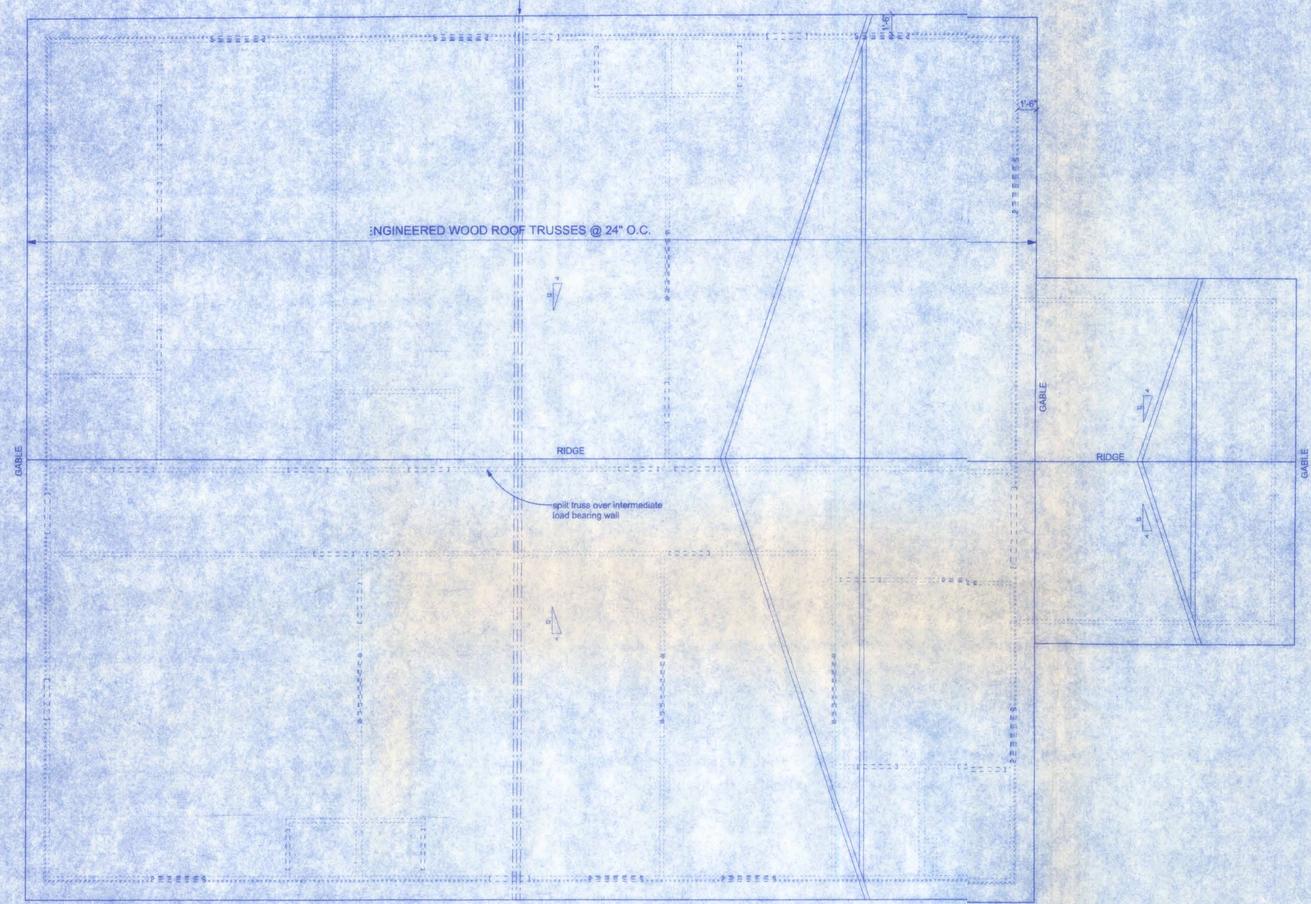
REVISIONS

SHEET A-4 OF 11

PROJECT NO. 06.C040

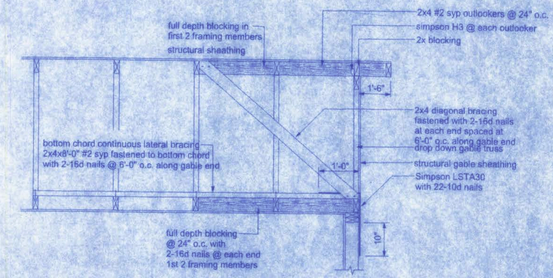
NOTE: DRAFT STOPPING
TO BE REQUIRED @
MAX. 3000 SF
OF ATTIC SPACE.

NOTE:
DRAFTSTOPPING MATERIALS SHALL BE NOT LESS THAN 1/2"
GYPSUM BOARD, 15/32" WOOD STRUCTURAL PANEL
1/2" PARTICLE BOARD OR OTHER APRROVED MATERIALS
ADEQUATELY SUPPORTED



ROOF PLAN

SCALE; 3/16" = 1'-0"



END WALL BRACING FOR CEILING DIAPHRAGM

NTS

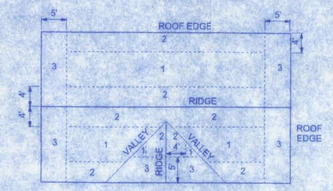
NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE

CONNECTOR SCHEDULE FOR TRUSS ANCHORAGE

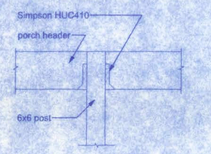
CONNECTOR	TRUSS	TOP PLATE	UPLIFT PROVIDED	MANUFACTURER
H2.5	5-8d NAILS	5-8d NAILS	365 LBS	SIMPSON
H10	8-8d NAILS	8-8d NAILS	850 LBS	SIMPSON
MTS12	7-10d NAILS	7-10d NAILS	1,000 LBS	SIMPSON
H16	2-10d NAILS	10-10d NAILS	1,300 LBS	SIMPSON
(2)HTS20	18-10d NAILS	18-10d NAILS	2 x 1,450 = 2,900 LBS	SIMPSON

ROOF SHEATHING FASTENINGS

NAILING ZONE	SHEATHING TYPE	FASTENER	SPACING
1	1/2" O.S.B. OR 15/32 CDX	8d COMMON OR 8d HOT DIPPED GALVANIZED BOX NAILS	6 in. o.c. EDGE 12 in. o.c. FIELD
2			6 in. o.c. EDGE 6 in. o.c. FIELD
3			4 in. o.c. @ GABLE ENDWALL OR GABLE TRUSS 6 in. o.c. EDGE 6 in. o.c. FIELD

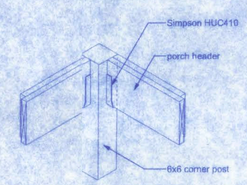


ROOF SHEATHING NAILING ZONES (GABLE ROOF)



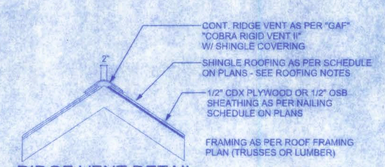
INTERMEDIATE POST

NTS



CORNER POST

NTS



RIDGE VENT DETAIL

VENTILATION REQUIREMENTS

Total Attic Square Footage	Recommended Length of Cobra Rigid Vent II (Feet)	Minimum Intake Ventilation (Net Free Area in Sq. In.)
1600	21	384
1900	25	456
2200	29	528
2500	33	600
2800	41	744
3100	41	820
3400	45	816

STEEL COATING RECOMMENDATIONS IN PRESSURE TREATED WOOD:

- Thicker galvanizing generally extends service life of a product. The treated wood industry recommends use of Stainless Steel and hot-dip galvanized connectors and fasteners with treated wood.
- Due to the uncertainties, which are out of the specifiers control, in regard to the chemicals used in pressure treated wood, Simpson recommends the use of stainless steel fasteners, anchors and connectors with treated wood when possible. At a minimum, customers should use ZMAX (G185 HDG per ASTM A653), Batch/Post Hot-Dip Galvanized (per ASTM A123 for connectors and ASTM A153 for fasteners), or mechanically galvanized fasteners (per ASTM B695, Class 55 or greater), product with the newer alternative treated woods.
- G60 galvanized products should not be used with treated woods.
- G90 galvanized connectors can be used with Sodium Borate (DOT - Disodium Octaborate Tetrahydrate) treated woods. Sodium Borate Treated woods are not suitable for applications where moisture exposure is likely. They are suitable for mudsill applications when transported, stored, and installed appropriately.
- When using stainless steel or hot-dip galvanized connectors, the connectors and fasteners should be made of the same material.

Simpson Strong-Tie Product Finishes	Untreated Wood	Chromated Copper Arsenate (CCA-C)	DOT Sodium Borate (SBX)	Alkaline Copper Quat ACQ-C and ACQ-D (Carbonate)	Copper Azole (CBA-A and CA-B)	SBX (DOT) with NASIQ	Ammoniacal Copper Zinc Arsenate (ACZA)	Other Pressure Treated Woods
Standard (G90)	X	X	X					
ZMAX (G185)	X	X	X	X	X	X		
Post Hot-Dip Galvanized (HDG)	X	X	X	X	X	X	X	X
SST300 (Stainless Steel)	X	X	X	X	X	X	X	X

HART-2-HART ACADEMY

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CERTIFICATE OF AUTHORIZATION # 00008701

Freeman Design Group Inc

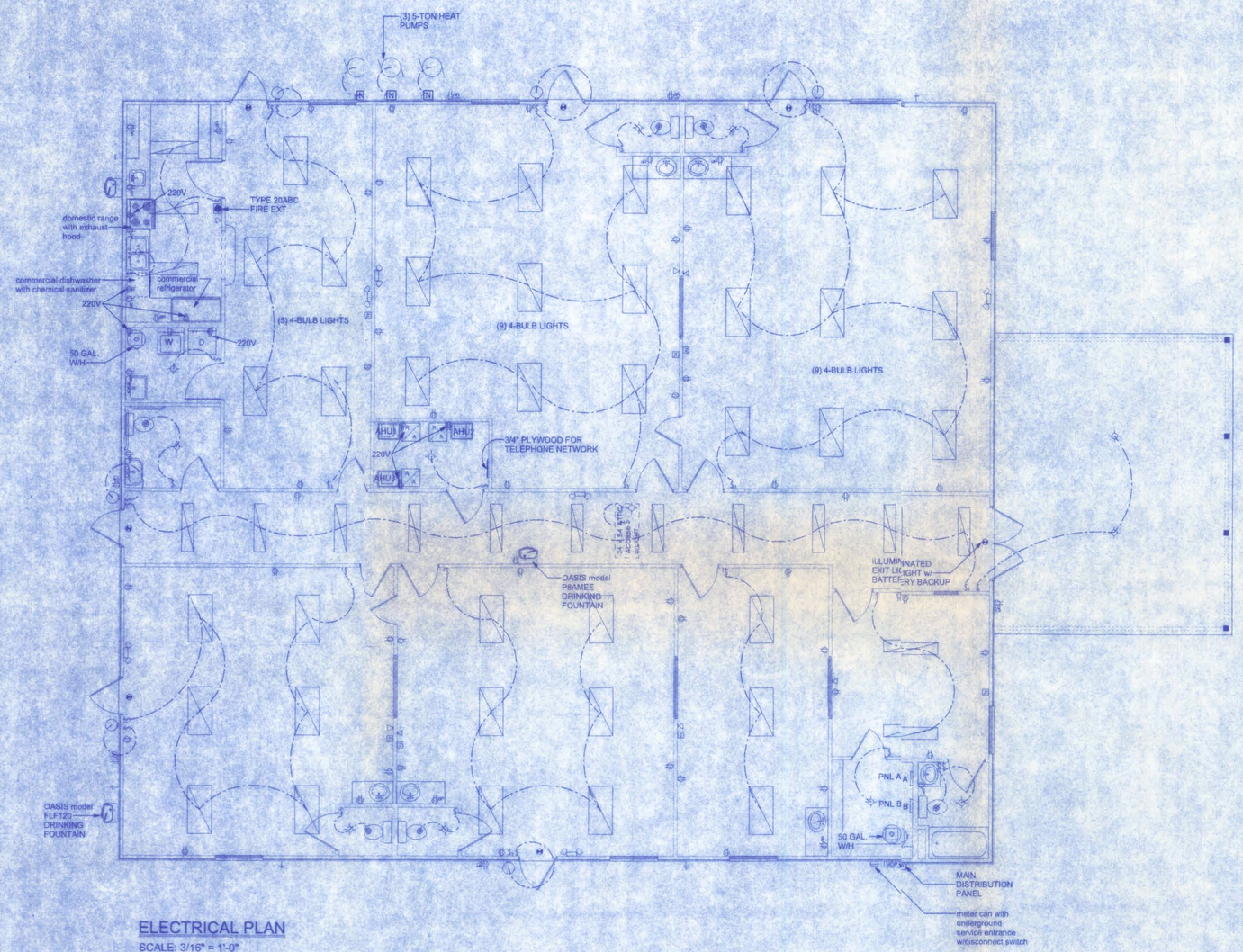
DATE	DRAWN BY
12/08/08	J.T.D.
	APPROVED W.H.F.

REVISIONS

SHEET A-5
OF 11

PROJECT NO.
08.C040

12/16/08
P.E. # 43001



ELECTRICAL PLAN

SCALE: 3/16" = 1'-0"

NOTE:
ALL RECEPTACLES SHALL BE +60" A.F.F.

ELECTRICAL	SYMBOL
recessed light	
fluorescent light 1 x 4	
fluorescent light 2 x 4	
exterior light	
electric motor	
electrical meter	
electrical panel	
emergency light w/ battery backup	
illuminated exit light w/ battery backup	
main distribution panel	
non-fused disconnect	N
50 cfm exhaust fan	
cable tv outlet	
incandescent light	
outlet	
outlet 220v	
outlet gfi	
switch	S
switch 3 way	S3
telephone	
weather proof GFI	

GENERAL LIGHTING LOAD (CONTINUOUS)

DAY CARE FACILITY			
TOTAL AREA OF ADDITION (SF)		4599	
2.0 VA PER SQUARE FOOT		9198	
SUBTOTAL		9198	
DEMAND FACTOR	125 %	**11497.5**	kw

OUTSIDE LIGHTING (CONTINUOUS)

3,000 VA X 125% =	**3750**	kw

RECEPTACLE LOADING (NON-CONT.)

Number of Receptacles	50	
180 VA per receptacle	9,000	
FIRST 10,000 VA X 100% =	9,000	
REMAINING 800 X 50% =	0	
	9,000	kw

WATER HEATER

4,500 VA per water heater	**9000**	kw
2 Number of water heaters		

HEATING LOADS

5 ton heat pump		9,000	
heat pumps =	3	27000	
TOTAL		**36000**	kw

A/C MOTOR LOADS

5 ton air handler		4,080	
air handlers =	3	12240	
TOTAL		**16320**	kw

CALCULATING LARGEST MOTOR LOAD

heat pump load		27000	
demand factor =	25 %	**6750**	kw

OCPD

GENERAL LIGHTING	11497.5
OUTSIDE LIGHTING	3750
RECEPTACLE LOAD	9,000
WATER HEATER	9000
HEATING LOADS	36000
A/C LOADS	16320
LARGEST MOTOR	6750
TOTAL LOAD	**92317.5** kw

I = total load/240 = 384.8563 AMPS

USE 400 AMP 1 PHASE POWER 120/240

LIFE SAFETY NOTES

ALL EXIT AND EMERGENCY LIGHTING SHALL BE INSTALLED PER NEC 700-12, 2005 EDITION.

ACCESS TO EXITS SHALL BE MARKED BY APPROVED READILY VISIBLE SIGNS IN ALL CASES WHERE THE EXIT OR WAY TO REACH THE EXIT IS NOT READILY APPARENT TO THE OCCUPANTS. SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN THE EXIT ACCESS CORRIDOR IS MORE THAN 100 FT FROM THE NEAREST EXTERNALLY ILLUMINATED SIGN AND INS NIT IN EXCESS OT THE MARKED RATING OFR INTERNALLY ILLUMINATED SIGNS.

ALL FIRE EXTINGUISHERS SHALL BE TYPE 20ABC AND SHALL BE LOCATED SO THAT NO POINT IN THE DIRECTION OF TRAVEL FROM ANY POINT IS MORE THAN 75 FT TO THE FIRE EXTINGUISHER.

NOTE:
ALL RECEPTACLES SHALL BE 60" A.F.F. EXCEPT IN KITCHEN AND OFFICE

SMOKE DETECTORS SHALL BE LOCATED EVERY 10' IN HALL WAYS AND IN KITCHEN.

HEAT SENSORS SHALL BE LOCATED IN KITCHEN AND IN A/C CLOSETS.

A TYPE 20ABC FIRE EXTINGUISHER SHALL BE LOCATED WITHIN 15 FEET OF RANGE IN KITCHEN.

FIRE BELLS SHALL BE LOCATED ON OPPOSITE ENDS OF ALL ROOMS AND SHALL BE ACCESSIBLE.

NOTE:
VERIFY LOCATIONS OF CHANGING TABLES AND LOCATE 50 CFM EXHAUST FAN IN THE VICINITY.

ELECTRICAL PLAN NOTES

WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.

CONSULT THE OWNER FOR THE NUMBER OF SEPARATE TELEPHONE LINES TO BE INSTALLED.

INSTALLATION SHALL BE PER NAT'L. ELECTRIC CODE.

ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER.

TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S DIRECTIONS, & IN ACCORDANCE W/ APPLICABLE SECTIONS OF NEC-LATEST EDITION.

ELECTRICAL CONT'R SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADDNS TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT No., DESCRIPTION & BRKR, SERVICE ENT & ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER DIA. SHALL INCLUDE WIRE SIZES/TYPE & EQUIPMENT TYPE W/ RATINGS & LOADS.
CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.

NOTE:
COMBO EXIT LIGHT w/ EMERGENCY LIGHTING MAY BE USED

NOTE:
ALL ELECTRICAL FIXTURES (LIGHTS, OUTLETS, ETC.) SHALL BE PRE-APPROVED BY OWNER PRIORTO ANY INSTALLATION BY ELECTRICAL CONTRACTOR OR BY THE GENERAL CONTRACTOR OR ANY SUB-CONTRACTORS.

NOTE:
ALL FLUORESCENT FIXTURES TO BE SURFACE MOUNTED UNLESS OTHERWISE NOTED.

NOTE:
EXIT AND EMERGENCY LIGHTING SHALL BE INSTALLED PER NEC 700-12, 2005 EDITION.

OCCUPANT NOTIFICATION:

AUDIBLE AND VISIBLE ALARMS SHALL BE PROVIDED TO ALERT OCCUPANTS OF A FIRE OR OTHER EMERGENCY.

INITIATION:

INITIATION OF THE REQUIRED FIRE ALARM SYSTEM SHALL BE BY MANUAL MEANS AND BY OPERATION OF ANY REQUIRED SMOKE DETECTORS.

FIRE DEPARTMENT NOTIFICATION:

THE FIRE ALARM SYSTEM SHALL BE ARRANGED TO TRANSMIT THE ALARM AUTOMATICALLY TO THE FIRE DEPARTMENT IN ACCORDANCE WITH NFPA 72 BY MEANS OF ONE OF THE FOLLOWING METHODS AS APPROVED BY THE BUILDING OFFICIAL:

1. an auxiliary alarm system, or
2. a central station connection, or
3. a proprietary system, or
4. a remote station connection.

Exception: Where none fo the above means of notification is available, a plan for notification of the fire department, acceptable to the building official, shall be provided.

DETECTION:

A smoke detection system shall be installed in accordance with NFPA 72, with placement of detectors in each story in front of doors to the stairways and in front of corridors of all floors occupied by the day-care occupancy. Detectors shall also be installed in lounges, recreation areas and sleeping rooms in the day-care occupancy.

D. Allen H. Hart 12/16/08 PE# 51-50007

HART-2-HART ACADEMY

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CERTIFICATE OF AUTHORIZATION # 00006701

Freeman Design Group INC

DATE 12/06/08	DRAWN BY J.T.D.
	APPROVED W.H.F.

REVISIONS

SHEET A-6
OF 11

PROJECT NO. 08.C040

PANEL BOARD SCHEDULE

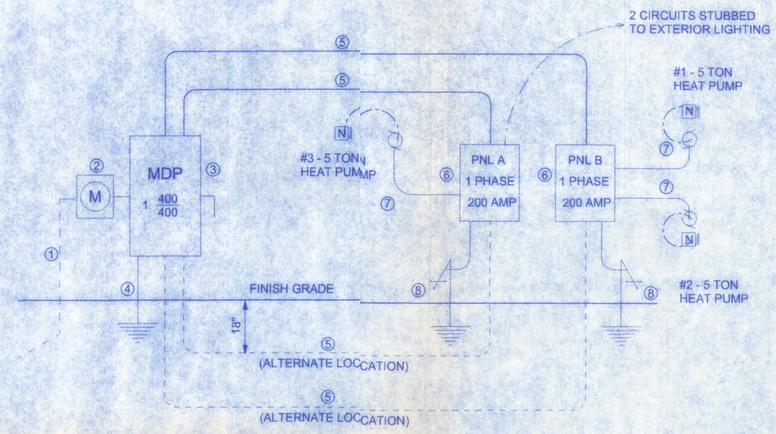
PANEL: PNL A — LOCATION: OFFICE
TYPE: S.O.D. "NQOD" — MAIN LUGS: ONLY — MAIN BREAKER: X — AMPS: 200
VOLTS: 120/240 — PHASE: 1 — WIRE: 3 — SINGLE POLES: 40
A.I.C. RATING: 10,000 KVA — FEEDER SIZE: 3 - 3/0 THW
FEED / TOP: X — BOTTM:
MOUNTING / SURFACE: — FLUSH: X
CABINET / STANDARD: X
TOTAL KW LOAD: 45.3

WIRE	GND.	COND.	APPLICATION	LOAD	CIR.	BRK.	BRK.	CIR.	LOAD	APPLICATION	COND.	GND.	WIRE
8	10	3/4"	HEAT PUMP #3		1	40/2	60/2	2		AIR HANDLER	1"	6	4
					3			4					
12	12	1/2"	LIGHTING		5	20/1	30/2	6		WATER HEATER	3/4"	12	10
12	12	1/2"	RECEPT.		7	20/1		8					
12	12	1/2"	RECEPT.		9	20/1	20/1	10		RECEPT.	1/2"	12	12
12	12	1/2"	RECEPT.		11	20/1	20/1	12		RECEPT.	1/2"	12	12
12	12	1/2"	BATHROOM		13	20/1	20/1	14		MISCELL.	1/2"	12	12
6	8	3/4"	RANGE		15	50/2	20/1	16		SM. APPLIANCE	1/2"	12	12
					17		20/1	18		SM. APPLIANCE	1/2"	12	12
12	12	1/2"	LIGHTING		19	20/1	20/1	20		LIGHTING	1/2"	12	12
12	12	1/2"	EXT. LIGHTING		21	20/1	20/1	22		EXT. LIGHTING	1/2"	12	12
			SPACE		23			24		SPACE			
			SPACE							SPACE			
			SPACE		39			40		SPACE			

PANEL BOARD SCHEDULE

PANEL: PNL B — LOCATION: OFFICE
TYPE: S.O.D. "NQOD" — MAIN LUGS: ONLY — MAIN BREAKER: X — AMPS: 200
VOLTS: 120/240 — PHASE: 1 — WIRE: 3 — SINGLE POLES: 40
A.I.C. RATING: 10,000 KVA — FEEDER SIZE: 3 - 3/0 THW
FEED / TOP: X — BOTTM:
MOUNTING / SURFACE: — FLUSH: X
CABINET / STANDARD: X
TOTAL KW LOAD: 47.01

WIRE	GND.	COND.	APPLICATION	LOAD	CIR.	BRK.	BRK.	CIR.	LOAD	APPLICATION	COND.	GND.	WIRE
8	10	3/4"	HEAT PUMP #1		1	40/2	30/2	2	40/2	HEAT PUMP #2	3/4"	10	8
					3			4					
4	6	1"	AIR HANDLER		5	60/2	60/2	6	60/2	AIR HANDLER	1"	6	4
					7			8					
12	12	1/2"	EM. LIGHTING		9	20/1		10	30/2	40 GAL. W/H	3/4"	12	10
12	12	1/2"	EXT. LIGHTING		11	20/1		12					
12	12	1/2"	LIGHTING		13			14		LIGHTING		12	12
12	12	1/2"	LIGHTING		15			16		LIGHTING		12	12
					17					SPACE			
			SPACE		39			40		SPACE			



① Service/Feeder Entrance Conductors: 2 1/2" rigid conduit, min 18" deep, w. continuous ground bonding conductor. Service/Entrance Conductors shall not be spliced except that bolted connections at the Meter, Disconnection Devices and Panel shall be allowed.

② Meter Enclosure, weatherproof, U.L. Listed.

③ Main Disconnect Switch: fused or Main Breaker, weatherproof, U.L. Listed.

④ Service entrance ground: 5/8" diameter iron/steel rod x 8'-0" long and/or concrete encased foundation steel rebar x 20'-0" long. Grounding conductor shall be bonded to each piece of Service/Entrance Equipment, and shall be sized per Item #5 below.

⑤ 200 Ampere Feeder: 3-3/0-THWN-Cu, 1-#2-Cu-GND, 2 1/2" Conduit.

⑥ House Panel (PNL), U.L. Listed, , sized per schedule.

⑦ Equipment Disconnect Switch: non-fused, in weather proof enclosure, size according to Panel Schedule loads.

⑧ Provide Ground Bond Wire to metal piping, size in accordance with the Service Ground Conductor.

NOTE:

The minimum AIC rating for panel boards, breakers and disconnect switches shall be 10,000 AIC.

WIRING NOTES:

WIRING, DISTRIBUTION EQUIPMENT AND DEVICES

A: CONDUCTORS: Copper, in accordance with ASTM Standards, size reference AWG. Conductors No. 10 and smaller size solid, No. 8 and Larger, Stranded. Insulation of conductor thermoplastic, type THHN (min. size No. 12) any wire installed outside, underground, in slabs or exposed to moisture shall have THWN insulation.

B. RACEWAYS: RIGID STEEL CONDUIT, full weight pipe galvanized, threaded, and minimum 1/2 inch except as noted or required for wiring. ELECTRICAL METALLIC TUBING (EMT), thin wall pipe, galvanized, threadless, compression fittings, and minim 1/2" size except as noted or required for wiring. FLEXIBLE STEEL CONDUIT: continuous single strip, galvanized, and minimum 1/2" size except as noted or required for wiring. PVC CONDUIT, heavy duty type, size as indicated. Separate raceways shall be used for each voltage system.

C: DISCONNECT SWITCHES: General Duty, horsepower rated for motor loads 250 volt rating, fused or non-fused as noted; number of poles as indicated. Enclosure NEMA 1 for indoor use and NEMA 3R for weatherproof applications. Switch to be Square "D" or equal.

D: CIRCUIT BREAKERS: molded case, thermal-magnetic, quick make, quick break, bolt-on type with manually operated insulated trip-free handle. Multi-pole types with internal common trip bar. Terminals suitable for copper or aluminum conductors. Interrupting capacity minimum 10,000 RMS symmetrical amperes circuit circuit breakers to be Square "D", Siemens or equal, type as required.

E: PANEL BOARDS: Voltage, phasing, and ampere ratings as indicated, circuit breaker type as indicated, buss bars of hard drawn copper, minimum 98% conductivity, galvanized steel back box, door and trim. All corners lapped and welded, hardware chrome plated with flush lock and catch. Hinges semi-concealed, 5 knuckles steel with nonferrous pins. 180 degree openings. Minimum gutter space 5-3/4" sides, top and bottom. Increase size where required by code. Directory holder complete with clear plastic transparent cover indicating typewritten list of feeder cables, conduit sizes, circuit number, outlets of equipment supplied, and their location. Circuit breaker type panel boards to be Square "D" type NQOD or I-Line, or equal. A plastic label shall be located on exterior of panel board identifying the system voltage, phase, and current rating.

F: WIRING DEVICES: All devices their product of the same manufacturer. Wall switches and receptacles to be 20 amp, 125 volt, unless noted otherwise. Color to be selected by Architect.

G: DEVICE PLATES: provide for all outlets where devices are installed. Provide engraved marking for special outlets (where noted). Provide blank plates for empty or future outlet boxes. DEVICE AND DEVICE PLATE COLORS TO BE VERIFIED WITH ARCHITECT AND OWNER.

GROUNDING SYSTEM:

a. EQUIPMENT: Ground non-current carrying metal parts of panel board, raceways and all lighting fixtures. All conduit shall have equipment grounding conductors.

INSTALLATION:

A. Secure all supports to building structure as specified under raceways. Support horizontal runs of metallic conduit not more than 10 feet apart. Run exposed raceways parallel with or at right angles to walls.

B. Pass raceways over water, steam or other piping when pull boxes are not required. no raceway within 3 inches of steam or hot water pipes, or appliances. expect crossing where the raceway shall be at least 2 inches from pipe cover.

C. Cut conduit ends square , ream smooth. Paint male threads of field threaded conduit with Graphite based pip compound. Draw up tight with conduit couplings.

D. Leave wire sufficiently long to permit making final connections. In raceway over 50 feet in which wiring is not installed. furnish pull wire.

E. Verify locations of outlets and switches.

F. Support panel, junction and pull boxes independently to building structure with no weight bearing on conduits.

G. Connect conduit to motor conduit terminal bases with flexible conduit; minimum 18 inches in length and 50% slack. Do not terminate in or fasten raceways to motor foundation.

H. This contractor shall provide a temporary electrical distribution system as required; 120/208 volt, 1 phase, 100 amp, for new construction. All temporary work shall be installed in a neat and safe manner.

I. Contractor to remove and salvage all abandoned electrical equipment.

J. This contractor shall warrant all labor and materials for one year from date of final written acceptance.

12/16/08
P.E. #59091

HART-2-HART ACADEMY

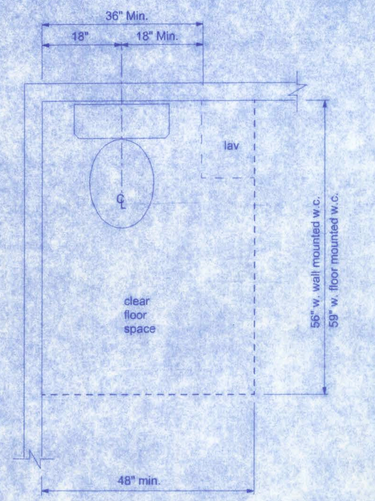
Freeman Design Group INC
128 S.W. NASSAU STREET
LAKE CITY, FL. 32025
(386)752-4209
CERTIFICATE OF AUTHORIZATION # 00006701

DATE	DRAWN BY
12/08/08	J.T.D.
	APPROVED W.H.F.

REVISIONS

SHEET A-7
OF 11

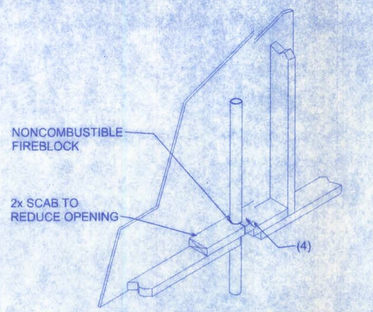
PROJECT NO. 08.C40



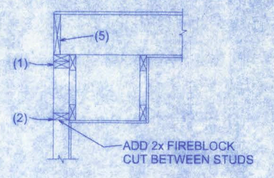
WATER CLOSET CLEARANCE DETAIL

PLUMBING NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDIN CODE AND LOCAL REGULATION.
2. ALL PLUMBING SHALL BE BID AS SPECIFIED OR OF EQUAL VALUE.
3. PROVIDE COLD WATER TO ALL PLUMBING FIXTURES AND HOT WATR TO ALL LAVATORIES.
4. PROVIDE DRAIN TO ANY WATER HEATERS.
5. PROVIDE A SLOPE ON ALL WASTE LINES OF 1/8" PER FOOT OF RUNMINIMUM), UNLESS OTHERWISE NOTED ON THE PLANS.
6. ALL WASTE LINES SHALL BE PVC DWV.
7. ALL WATER LINES SHALL BE CPVC PIPE AND FITTINGS.
8. INSTALL AIR CHAMBERS AS NEEDED.
9. WATER SERVICE SHALL BE SCH. 40 PVC 1 1/4" OR AS NECESSARY T PROVIDE NECESSARY WATER PRESSURE FOR PLUMBING FIXTURES TO WOR PROPERLY.
10. ALL ROOF FLASHING SHALL BE GALVANIZED WITH NEOPRENE COLARS.
11. ALL WATER PIPES, WHERE PASSING THROUGH MASONRY WALL OFCONCRETE SHALL HAVE PROTECTIVE SLEEVES.
12. PROVIDE PIPE SLEEVES OR CONCRETE RELIEVING ARCH AT ALL LCATIONS WHERE SANITARY PIPES PASS UNDER OR THROUGH CONCRETE FOTINGS OR FOUNDATION ALL IN ACCORDANCE WITH THE STANDARD PLUMBIN CODE. ALL PVC PIPE SHALL BE SCHEDULE 40.
13. SPECIFY IN BID HOW MANY FEET OF SEWER AND WATER PIPE IS INLUDED
14. IN BID. SPECIFY PRICE PER FOOT FOR ADDITIONAL SEWER AND WTER PIPE. ALL PLUMBING FIXTURES AND LABOR SHALL HAVE A STANDARD ON YEAR
15. WARRANTY FROM ISSUANCE OF CERTIFICATE OF OCCUPANTS. ANY CHANGES TO THE PLUMBING THAT WILL RESULT IN PRICE INCEASE OR
16. DECREASE SHALL NOT BE DONE UNTIL A WRITTEN CHANGE ORDERS IN PLACE.



PENETRATIONS

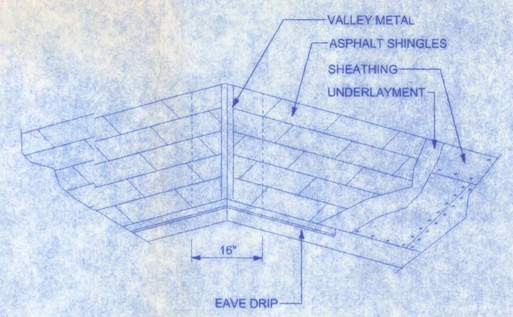


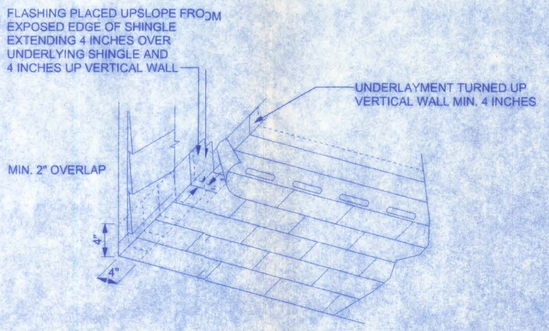
SOFFIT/DROPPED CLG.

FIREBLOCKING NOTES:

FIREBLOCKING SHALL BE INSTALLED IN WOOD FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:

1. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS.
2. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, COVE CEILINGS, ETC.
3. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN.
4. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH PYROPANEL MULTIFLEX SEALANT
5. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS, FIREBLOCKING SHALL BE PROVIDED FOR THE FULL DEPTH OF THE JOISTS AT THE ENDS AND OVER THE SUPPORTS.





SHINGLE NOTES:

DECK REQUIREMENTS:
ASPHALT SHINGLES SHALL BE FASTENED TO SOLIDLY SHEATHED DECKS.

SLOPE:
ASPHALT SHINGLES SHALL BE USED ONLY ON ROOF SLOPES OF 2:12 OR GREATER. FOR ROOF SLOPES FROM 2:12 TO 4:12, DOUBLE UNDERLAYMENT IS REQUIRED.

UNDERLAYMENT:
UNLESS OTHERWISE NOTED, UNDERLAYMENT SHALL CONFORM WITH ASTM D 226, TYPE 1, OR ASTM D 4869, TYPE 1.

SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET:
SELF ADHERING POLYMER MODIFIED BITUMEN SHALL COMPLY WITH ASTM D 1970.

ASPHALT SHINGLES:
ASPHALT SHINGLES SHALL HAVE SELF SEAL STRIPS OR BE INTERLOCKING, AND COMPLY WITH ASTM D 225 OR ASTM D 3462.

FASTENERS:
FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED, STAINLESS STEEL, ALUMINUM OR COPPER ROOFING NAILS, MINIMUM 12 GAUGE SHANK WITH A MINIMUM 3/8 INCH DIAMETER HEAD, OF A LENGTH TO PENETRATE THROUGH THE ROOFING MATERIAL AND A MINIMUM 3/4" INTO THE ROOF SHEATHING. WHERE ROOF SHEATHING IS LESS THAN 3/4" THICK, THE NAILS SHALL PENETRATE THROUGH THE SHEATHING.

ATTACHMENT:
ASPHALT SHINGLES SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE. WHERE ROOFS LOCATED IN BASIC WIND SPEED OF 110 MPH OR GREATER, SPECIAL METHODS OF FASTENING ARE REQUIRED. UNLESS OTHERWISE NOTED, ATTACHMENT OF ASPHALT SHINGLES SHALL CONFORM WITH ASTM D 3161 OR M-DC PA 107-95.

UNDERLAYMENT APPLICATION:
FOR ROOF SLOPES FORM 2:12 TO 4:12, UNDERLAYMENT SHALL BE A MINIMUM OF TWO LAYERS APPLIED AS FOLLOWS:

1. STARTING AT THE EAVE, A 19 INCH STRIP OF UNDERLAYMENT SHALL BE APPLIED PARALLEL WITH THE EAVE AND FASTENED SUFFICIENTLY TO STAY IN PLACE.
2. STARTING AT THE EAVE, 36 INCH WIDE STRIPS OF UNDERLAYMENT FELT SHALL BE APPLIED OVERLAPPING SUCCESSIVE SHEETS 19 INCHES AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

FOR ROOF SLOPED 4:12 AND GREATER, UNDERLAYMENT SHALL BE A MINIMUM OF ONE LAYER OF UNDERLAYMENT FELT APPLIED AS FOLLOWS:
STARTING AT THE EAVE, UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION PARALLEL TO THE EAVE, LAPPED 2 INCHES, AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

BASE AND CAP FLASHINGS:
BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE OF EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS 0.019 INCH OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 77 LBS PER 100 SQUARE FEET. CAP FLASHING SHALL BE CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS OF 0.019 INCH.

VALLEYS:
VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING ASPHALT SHINGLES. VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED.

1. FOR OPEN VALLEYS LINED WITH METAL, THE VALLEY LINING SHALL BE AT LEAST 16 INCHES WIDE AND OF ANY OF THE CORROSION RESISTANT METALS IN TABLE 1507.3.9.2.
2. FOR OPEN VALLEYS, VALLEY LINING OF TWO PLIES OF MINERAL SURFACE ROLL ROOFING SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 18 INCHES AND THE TOP LAYER A MINIMUM OF 36 INCHES WIDE.
3. FOR CLOSED VALLEYS VALLEY LINING SHALL BE ONE OF THE FOLLOWING:
   1. BOTH TYPES 1 AND 2 ABOVE, COMBINED.
   2. ONE PLY OF SMOOTH ROLL ROOFING AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 224.
   3. SPECIALTY UNDERLAYMENT AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 1970.

MATERIAL	MINIMUM THICKNESS (in)	GAGE	WEIGHT (LB)
COPPER			1
ALUMINUM	0.024		
STAINLESS STEEL		28	
GALVANIZED STEEL	0.0179	26 (ZINC COATED G90)	
ZINC ALLOY LEAD PAINTED TERNE	0.027		2 1/2 20

Wilson H. Freeman
12/4/08
P.E. # 63044

HART-2-HART ACADEMY

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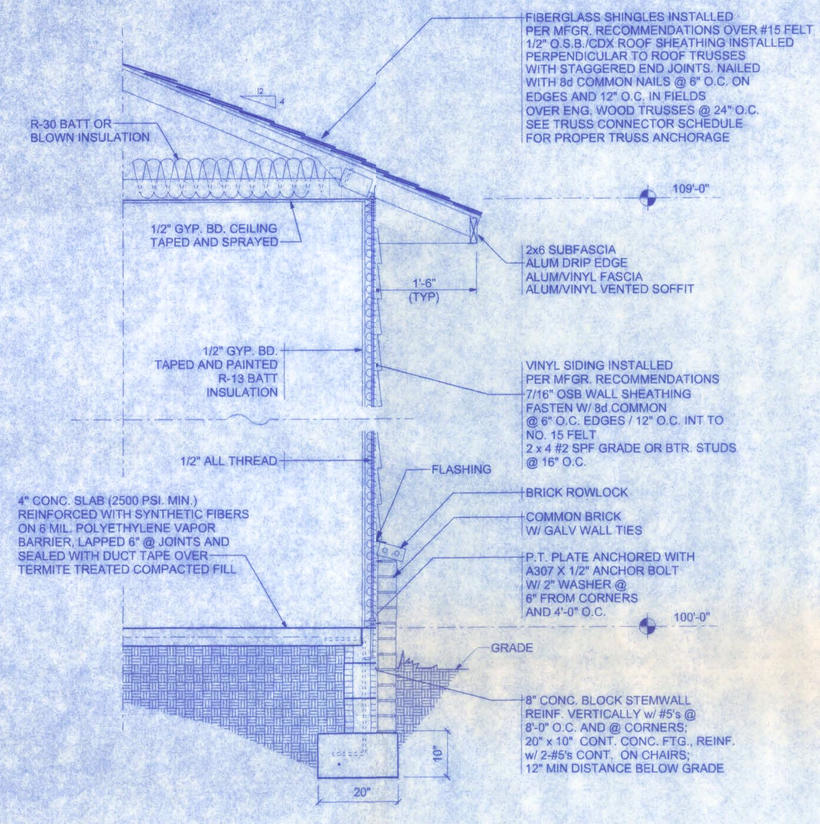
CERTIFICATE OF AUTHORIZATION # 00008701

DATE	DRAWN BY
12/08/08	J.T.D.
	APPROVED W.H.F.

REVISIONS

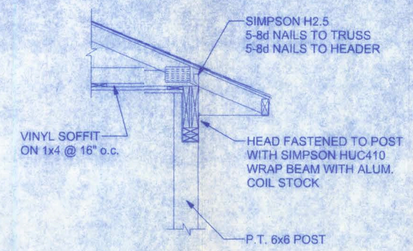
SHEET A-8
OF 11

PROJECT NO. 08.C40



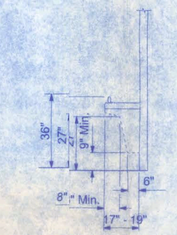
TYPICAL WALL SECTION

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

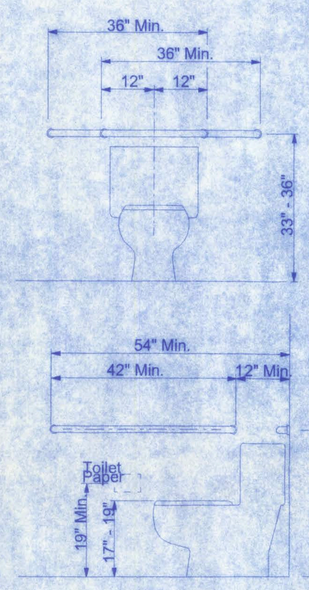


PORTE-CO SECTION

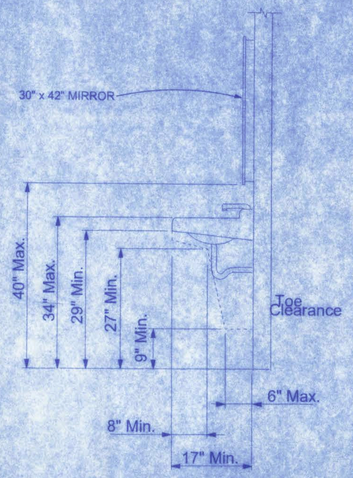
SCALE: 3/4" = 1'-0"



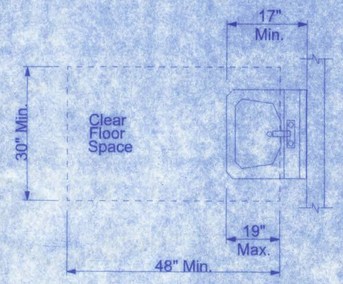
WATER COOLER CLEARANCES



GRAB BARS AT WATER CLOSETS



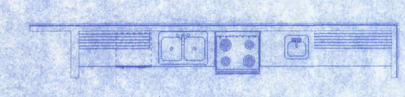
LAVATORY CLEARANCES



CLEAR FLOOR SPACE AT LAVATORIES

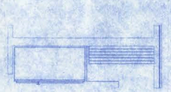
HANDICAPPED ACCESSIBLE CONSTRUCTION DETAILS

NOTE:
ALL CABINETS SHALL BE LAMINATE ON PLYWOOD w/LAMINATE TOPS.



KITCHEN (ENDWALL) PLAN VIEW

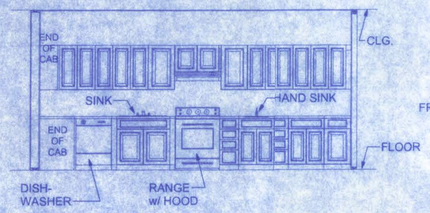
KITCHEN (INNER-WALL) PLAN VIEW



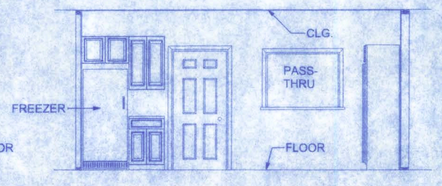
KITCHEN (LEFT) PLAN VIEW

UTILITY ROOM PLAN VIEW

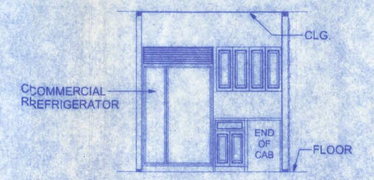
ROOM SINK PLAN VIEW



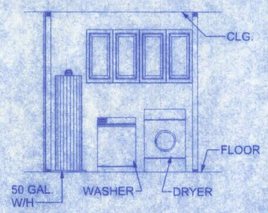
KITCHEN (ENDWALL)



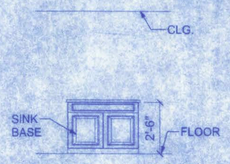
KITCHEN (INNER-WALL)



KITCHEN (LEFT)



UTILITY ROOM



ROOM SINK
(TYPICAL FOR ALL ROOMS)

HART-2-HART ACADEMY

Freeman Design Group INC
128 S.W. NASSAU STREET
LAKE CITY, FL. 32025
(386)758-4209
CERTIFICATE OF AUTHORIZATION #6608701

DATE	DRAWN BY
12/08/06	J.T.D.
	APPROVED W.H.F.

REVISIONS

SHEET A-9
OF 11

PROJECT NO. 08.C040

INTERIOR FINISH SCHEDULE

ROOM	FLOORING	BASE	WALLS	CEILING	CLG. HEIGHT
OFFICE	WOOD LAM.	4"WOOD, P/G	TEXTURED/PAINTED	TEXTURED/PAINTED	9'-0"
MECH. ROOM	CONCRETE	4"WOOD, P/G	TEXTURED/PAINTED	TEXTURED/PAINTED	9'-0"
KITCHEN	8" QUARRY TILE	4"WOOD, P/G	TEXTURED/PAINTED	TEXTURED/PAINTED	9'-0"
UTILITY ROOM	12" CER. TILE	4"WOOD, P/G	TEXTURED/PAINTED	TEXTURED/PAINTED	9'-0"
HALLWAY	WOOD LAM.	4"WOOD, P/G	TEXTURED/PAINTED	TEXTURED/PAINTED	9'-0"
H.C. RESTROOM	12" CER. TILE	4"WOOD, P/G	TEXTURED/PAINTED	TEXTURED/PAINTED	9'-0"
ROOM RESTROOMS	12" CER. TILE	4"WOOD, P/G	TEXTURED/PAINTED	TEXTURED/PAINTED	9'-0"
CLASSROOMS	WOOD LAM.	4"WOOD, P/G	TEXTURED/PAINTED	TEXTURED/PAINTED	9'-0"
FOYER	8" QUARRY TILE	4"WOOD, P/G	TEXTURED/PAINTED	TEXTURED/PAINTED	9'-0"
PORCH	CONCRETE	N/A	N/A	VINYL SOFFIT	9'-0"

NOTE:
ALL WALLS SHALL RECEIVE ONE PRIMER COAT AND 2 FINISH COATS OF LATEX PAINT.
COLORS BY OWNER.

FIXTURE SCHEDULE

H.C. ACCESSIBLE RESTROOM

QTY.	DESCRIPTION
1	GERBER #21-718, 17" HIGH ELONGATD BOWL, WHITE.
1	GERBER #22-554 24"x20" LAV. W/ PEESTAL, WHITE.
1	GERBER 44-051 SERIES LAVATORY FUCETS W/ WRIST BLADE HANDLES.
1	1 1/2" X 36" GRAB BAR ON WALL BEHID TOILET.
1	1 1/2" X 42" GRAB BAR ON WALL LEFSIDE OF TOILET.

ROOM RESTROOMSINK

QTY.	DESCRIPTION
1	UNIVERSAL RUNDLE 20" x 17" SELF RIMING SINK, WHITE
1	GERBER 40-501 SERIES LAVATORY FUCETS W/ SINGLE HANDLE

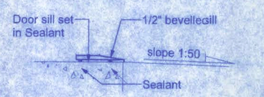
KITCHEN

QTY.	DESCRIPTION
1	KOHLER STAINLESS STEEL DOUBLE INK #K-3145-4
1	KOHLER FORTE® KITCHEN FAUCET I/SIDESPRAY IN ESCUTCHEON AND LEVER HANDLE #-10413
1	KOHLER STAINLESS STEEL SINK #K-349-1.
1	KOHLER REVIVAL SINK FAUCET #K-1112-4A SINGLE HANDLE

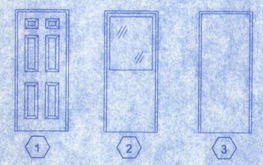
UTILITY ROOM

QTY.	DESCRIPTION
1	THERMOPLASTIC LAUNDRY TUB
1	STERLING KITCHEN FAUCET #C826RW/ METAL HANDLE

WATER COOLER - OASIS MODEL P8AMEE WAER COOLER (CORRIDOR)
OASIS MODEL FLF120 WATR COOLER (EXTERIOR)



SILL DETAIL
SCALE: 1 1/2" = 1'-0"



DOOR SCHEDULE

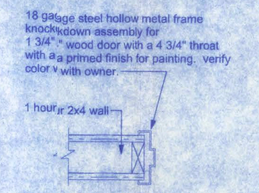
NO.	LOCATION	DOOR SIZE	TYPE	MATERIAL	JAMB MATERIAL	JAMB SIZE	LOCKS	DOOR CLOSER	PULL PLATE	PUSH PLATE	KICK PLATE	DOOR BUMPER	FIRE RATING
A	FRONT ENTRY	PR 6/0 X 6/8 X 1 3/4	1	METAL	METAL	4 3/4	ENTRY LOCK, PANIC HARDWARE	X			X	X	20 MIN.
B	CORRIDOR INTERIOR	3/0 X 6/8 X 1 3/4	2	BIRCH	METAL	4 3/4	PRIVACY	X			X	X	20 MIN.
C	MECH. HALL BATH	3/0 X 6/8 X 1 3/4	3	BIRCH	METAL	4 3/4	KEYED ENTRY	X				X	20 MIN.
D	CLASS EXTERIOR	3/0 X 6/8 X 1 3/4	1	METAL	WOOD	4 3/4	ENTRY LOCK DEAD BOLT					X	
E	UTILITY,KITCHEN	2/8 X 6/8 X 1 3/8	1	MASONITE	WOOD	4 3/4	KEYED ENTRY					X	
E	OFFICE BATH	2/8 X 6/8 X 1 3/8	1	MASONITE	WOOD	4 3/4	PRIVACY					X	
E	OFFICE CLOSET	2/8 X 6/8 X 1 3/8	1	MASONITE	WOOD	4 3/4	PASSAGE					X	
E	CLASSROOM BATH	2/8 X 6/8 X 1 3/4	1	MASONITE	WOOD	4 3/4	KEYED ENTRY						
F	2 YR TO 4/5 YR OLDS	2/4 X 6/8 X 1 3/8	1	MASONITE	WOOD	4 3/4	KEYED ENTRY						
G	REAR CORRIDOR	3/0 X 6/8 X 1 3/4	1	METAL	METAL	4 3/4	ENTRY LOCK PANIC H/W	X				X	20 MIN.

NOTE:
BATHROOM DOORS SHALL BE DESIGNED TO ALLOW OPENING OF LOCKED DOOR FROM OUTSIDE BY OPENING DEVICE READILY ACCESSIBLE BY STAFF.

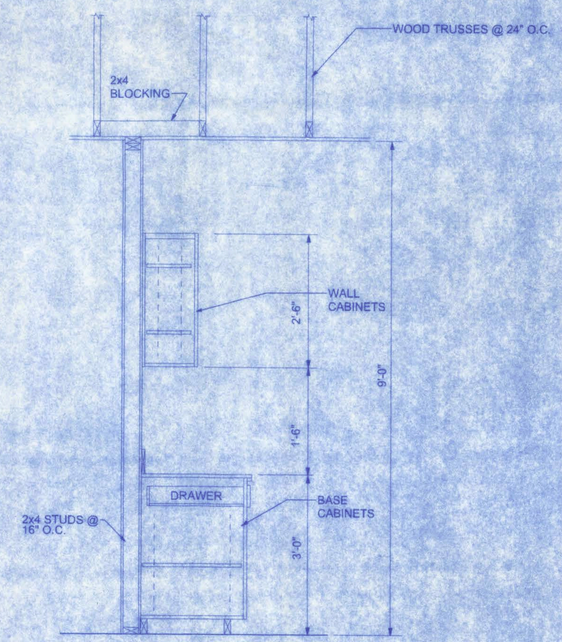
PUSH PLATE - 4"X16" BB
PULL PLATE - 4"X16" #132X70C BB
WALL DOOR BUMPER #407 1 1/2 - BB
- ALL DOOR HANDLESETS AND LOCKS SHALL BE KWIK-SET OR EQUAL, COLOR AND STYLE DESIGN BY OWNER.
- ALL LEVER TYPE HARDWARE SHALL BE MOUNTED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED HANDICAP MOUNTING HEIGHT.

GENERAL NOTES - DOORS

1. ALL INTERIOR DOORS SHALL BE 6 PANEL MASONITE 6/8 x 1 3/8" PREHUNG UNLESS NOTED OTHERWISE.
2. ALL EXTERIOR DOORS SHALL BE 6 PANEL METAL, PREHUNG 6/8 X 1 3/4" - WOOD JAMBS WEATHERSTRIPPING, AND THRESHOLD FACTORY INSTALLED UNLESS NOTED OTHERWISE.
3. IF REQUIRED, UNDERCUT DOORS FOR RETURN AIR. COORDINATE WITH MECHANICAL SUB-CONTRACTOR AS PER FINAL DESIGN.
4. CONFIRM DEPTHS OF ALL WOOD FLAT JAMBS. COORDINATE WITH CORRESPONDING WALL SECTIONS, PARTITION TYPES, AND WALL MODIFICATION DETAILS.
5. PAINT ALL EXTERIOR SURFACES OF EXTERIOR METAL DOORS AND THE SOLID WOOD DOOR FRAME. COLOR SELLECTION BY OWNER.
6. PAINT ALL INTERIOR SURFACES OF EXTERNAL METAL DOORS AND THE SOLID WOOD DOOR FRAME. COLOR SELLECTION BY OWNER.
7. PAINT ALL INTERIOR WOOD FLAT JAMBS. COLOR SELECTION BY OWNER.
8. PAINT ALL INTERIOR DOORS. COLOR SELECTION BY OWNER.



1 HR WALL JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



CABINET SECTION, TYP.
SCALE: 3/4" = 1'-0"

HART-2-HART ACADEMY

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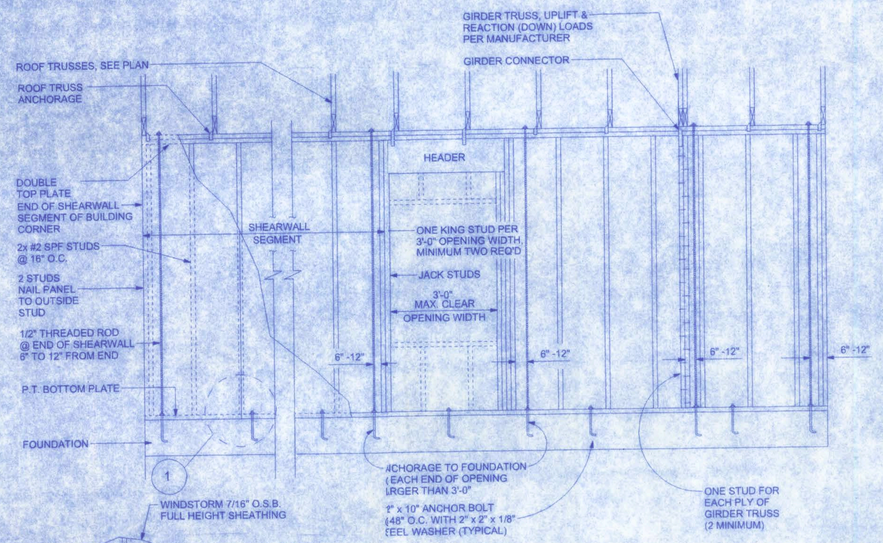
Freeman Design Group Inc

DATE	DRAWN BY
12/08/03	J.T.C.
	APPROVED W.H.F.

REVISIONS

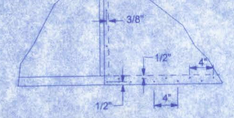
SHEET A-10
OF 11

PROJECT NO.
38.C040



SHEARWALL DETAILS

SCALE: 1/2" = 1'-0"



1 DOUBLE NAIL EDGE SPACING TOP AND BOTTOM PLATE

UPLIFT CAPACITY = 474 plf
(TABLE 305S1 SSTD10-99)

RULES:
1. One all-thread rod at each corner.
2. One all-thread rod at each end of shearwalls.
3. One all-thread rod at each end of opening headers greater than 3'-0"
4. Check sub-sheathing to top plate connection for horizontal transfer capability.
5. If necessary, add all-thread rods to girders individually to exclude the from averaguplift plf.
6. Check sole plate to slab connection, additional anchors may be required for laterand shear load transfer.

ALLOWABLE VALUES	
Connection Type	Allowable Value
Foundation / S.Y.P. Top Plate	3840 lbs.
Foundation / Spruce-Pine-Fir Top Plate	3840 lbs.
Lintel or Bond Beam / S.Y.P. Top Plate	3840 lbs.
Lintel or Bond Beam / Spruce-Pine-Fir Top Plate	3840 lbs.

Placement at slab level:

Corners
When presetting the all-thread rod at a building corner, the rod should be placed 8 to 12 inches away from the corner so it does not set under the corner framing members. When a all-thread rod is specified at a building corner, it may be placed on either side of the corner.

Header ends
When presetting the all-thread rod at a header end, the rod should be placed 8 to 12 inches away from the header end so it does not fall under the stud pack framing members.

Top Connections
Top connections made at corners and header ends shall be made within 2 inches of the framing pack. A nut and 3X3 washer shall be applied to the top plates and tightened securely.

Intermediate Coupler Connections
When using the rod coupler, care should be taken to ensure full and equal thread engagement. This is easily achieved by threading the coupler all the way onto the rod, then standing the two rods end to end, then threading the coupler back over the rod joint so each rod is halfway into the coupler.

Retro-fits
In the case of an all thread rod misplacement, the rod may be epoxied into the concrete.

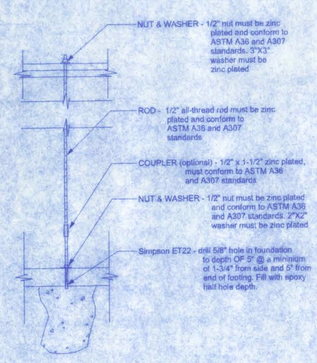
Sole plate to slab connection:
The slab level sole plate shall be connected to the slab with the connectors specified and at the spacing specified within the design documents. All-thread rods shall be placed as per the design specifications. All-thread rods with a nut and washer at the sole plate will qualify as a sole plate connection but may require other anchors intermediate of the all-thread rod locations to qualify the specified spacing requirements.

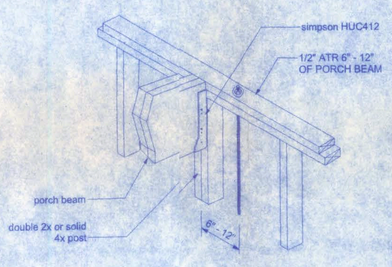
System Tightening:
On multiple story applications, the all-thread rod system shall be rechecked for proper tension just before the walls are veneered. This will allow the all-thread rod system to compensate for the buildings dead load compression.

SHEARWALL NOTES:

1. ALL SHEARWALLS SHALL BE TYPE 2 SHEARWALLS AS DEFINED BY STD 10-99 305.4.3.
2. THE WALL SHALL BE ENTIRELY SHEATHED WITH 7/16" O.S.B. INCLUDING AREAS ABOVE AND BELOW OPENINGS.
3. ALL SHEATHING SHALL BE ATTACHED TO FRAMING ALONG ALL FOUR EDGES WITH JOINTS FOR ADJACENT PANELS OCCURING OVER COMMON FRAMING MEMBERS OR ALONG BLOCKING.
4. NAIL SPACING SHALL BE 6" O.C. EDGES AND 12" O.C. IN THE FIELD.
5. TYPE 2 SHEARWALLS ARE DESIGNED FOR THE OPENING IT CONTAINS. MAXIMUM HEIGHT OF OPENING SHALL BE 5/6 TIMES THE WALL HEIGHT. THE MINIMUM DISTANCE BETWEEN OPENINGS SHALL BE THE WALL HEIGHT/3.5 ie. FOR 8'-0" WALLS - (2'-3").

OPENING WIDTH	SILL PLATES	16d TOE NAILS EACH END
UP TO 6'-0"	(1) 2x4 OR (1) 2x6	1
> 6' TO 9'-0"	(3) 2x4 OR (1) 2x6	2
> 9' TO 12'-0"	(5) 2x4 OR (2) 2x6	3

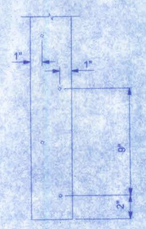




ALL THREAD @ PORCH BEAM

NTS

NOTE:
A SOLID MEMBER OF EQUAL OR GREATER SIZE THAN MULTIPLE MEMBERS MAY BE USED.
IF RATED SHEATHING IS APPLIED TO NARROW EDGES, NAILED TO EACH STUD AT 12" O.C. MAXIMUM, THE LAMINATION NAILING SHOWN HERE IS NOT REQUIRED.



GIRDER COLUMN DETAIL

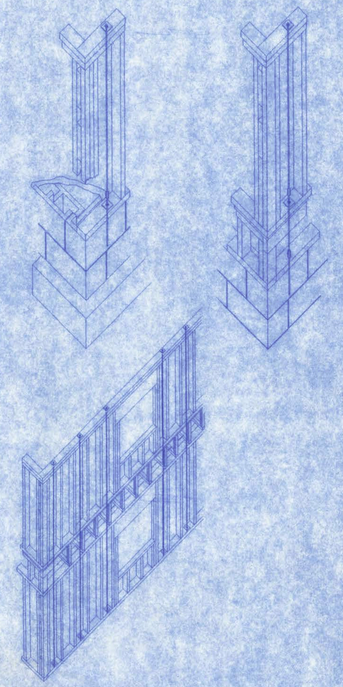
SCALE: 1/2" = 1'-0"

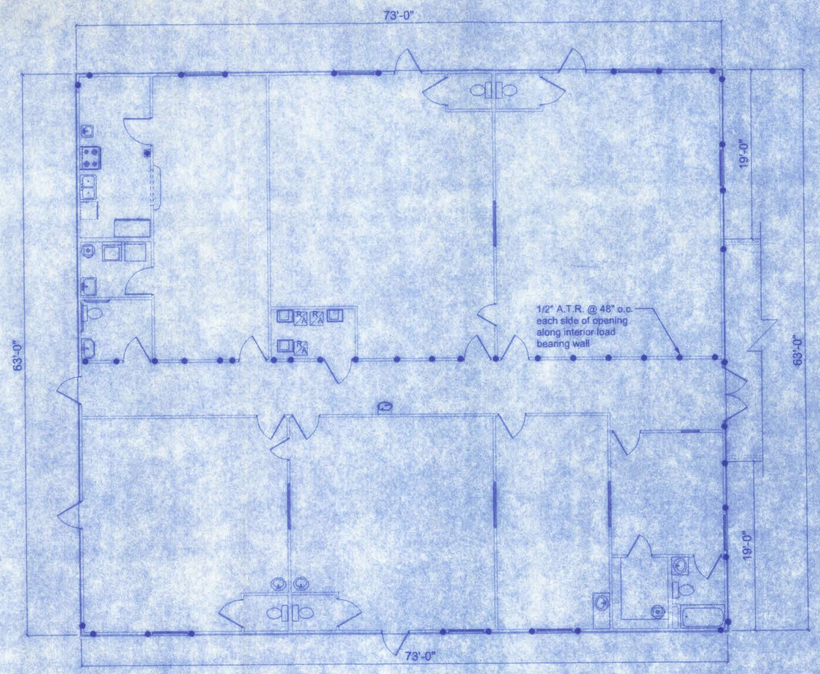
OPENING CONNECTION REQUIREMENTS

CLEAR OPENING WIDTH	HEADER SIZE #2 GRADE OR BETTER	END BEARING	CONNECTOR AT EACH END OF OPENING	ANCHORAGE TO FOUNDATION @ EACH END OF OPENING
0' - 3'	(2) 2x8	1.5"	N/A	N/A
>3' - 6'	(2) 2x10	3"	1/2" ALL THREAD ROD	1/2" ALL THREAD ROD
>6' - 9'	(2) 2x12	3"	1/2" ALL THREAD ROD	1/2" ALL THREAD ROD
>9' - 12'	(2) 1 3/4" x 11 1/4" LVL - 2.0E	3"	1/2" ALL THREAD ROD	1/2" ALL THREAD ROD
>12' - 15'	(2) 1 3/4" x 11 1/4" LVL - 2.0E	3"	1/2" ALL THREAD ROD	1/2" ALL THREAD ROD
>15' - 18'	(2) 1 3/4" x 11 1/4" LVL - 2.0E	4.5"	1/2" ALL THREAD ROD	1/2" ALL THREAD ROD

ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS

STRUCTURAL MEMBER	ALLOWABLE DEFLECTION
rafters having slopes greater than 2/12 with no finished ceiling attached to rafters	L/180
interior walls and partitions	H/180
floors and plastered ceilings	L/360
all other structural members	L/240
exterior walls with plaster or stucco finish	H/360
exterior walls - wind loads with brittle finishes	L/240
exterior walls - wind loads with flexible finishes	L/120





SHEARWALL PLAN

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

● - 1/2" ALL THREAD ROD LOCATIONS

HART-2-HART ACADEMY

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CERTIFICATE OF AUTHORIZATION # 00008761

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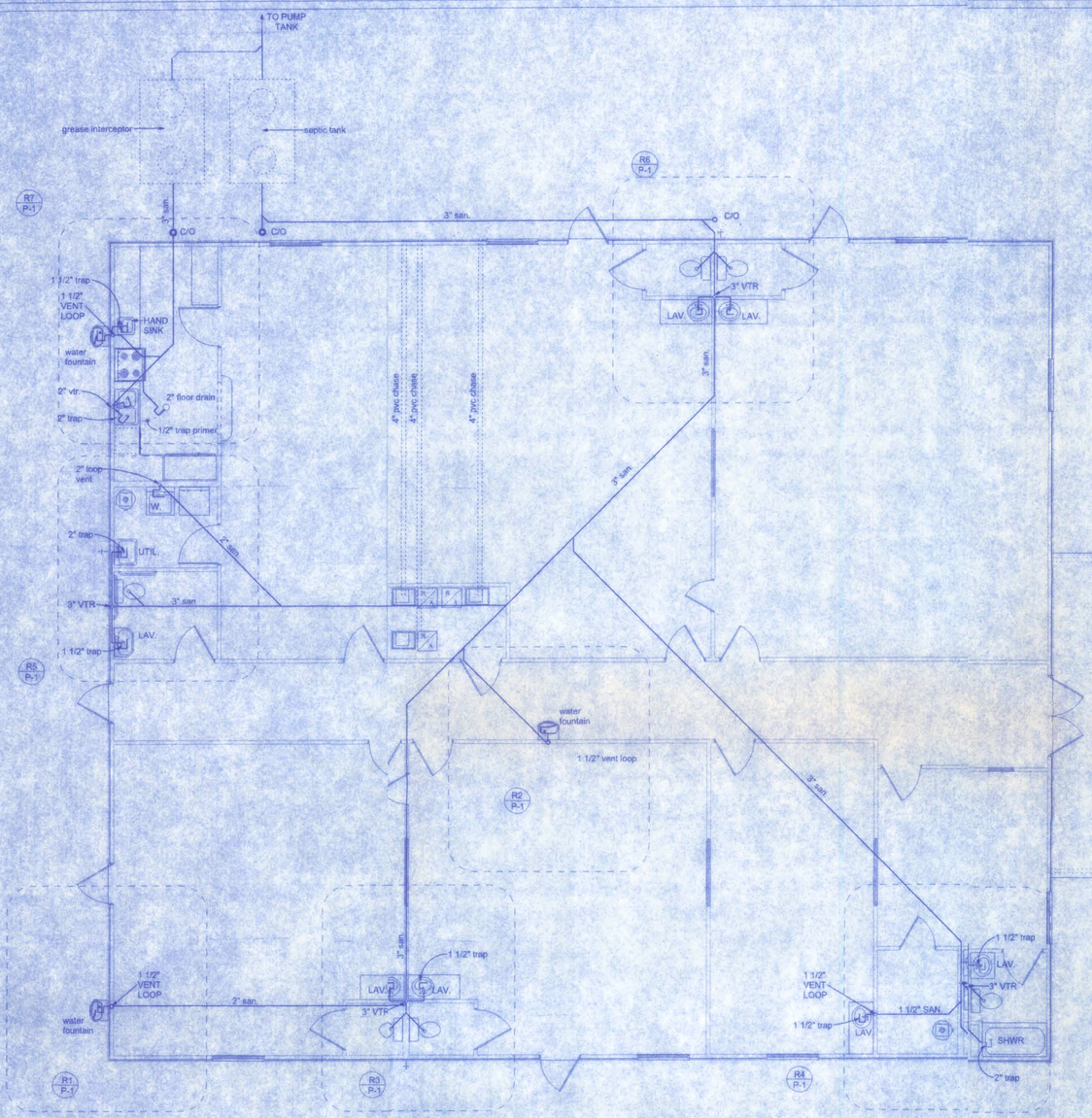
REVISIONS

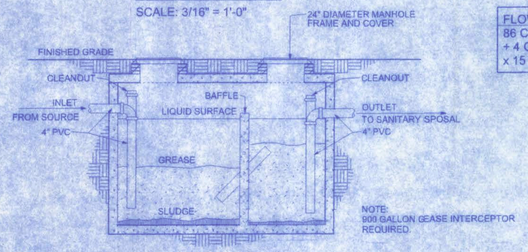
SHEET A-11 OF 11

PROJECT NO. 01.C040



PLUMBING PLAN

SCALE: 3/16" = 1'-0"



GREASE INTERCEPTOR DETAIL

SCALE: 1/2" = 1'-0"

FLOW CALCULATIONS:
86 CHILDREN x 10 GAL/DAY = 860 GAL/DAY
+ 4 GAL/DAY (FOR SHOWER) + 10 EMPLOYEES
x 15 GAL/DAY = 1,014 GAL/DAY TOTAL

NOTE!
PLUMBING CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL PLUMBING WORK, INCLUDING ALL PLUMBING LINE LOCATIONS AND RISER DIAGRAM - CONTR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER AND 1 COPY TO THE PERMIT ISSUING AUTHORITY.

NOTE!
PROVIDE PLUMBING CLEAN-OUTS AT THE BASE OF ALL STACKS, A MAXIMUM OF 75' O.C. ALONG ALL MAIN DRAIN RUNS AND THE UP-STREAM ENDS OF MAIN DRAIN RUNS, WHERE THE MAIN BUILDING DRAIN EXITS THE BUILDING AND AT 75' INTERVALS TO THE DISPOSAL SITE.

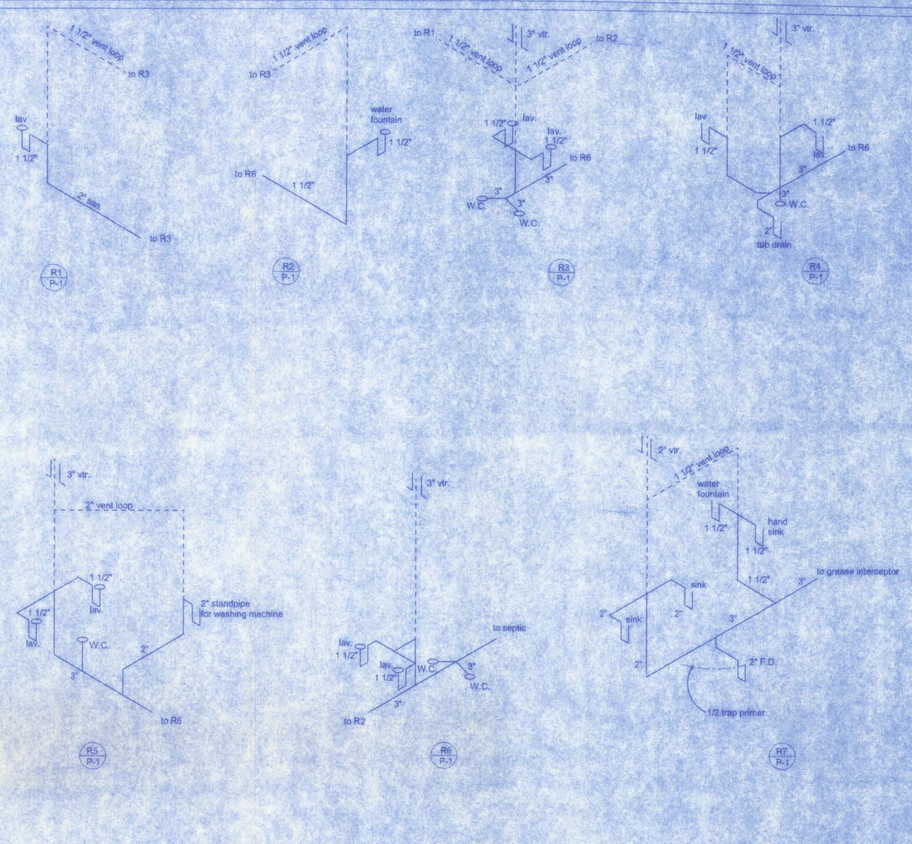
NOTE!
ADDED FILL SHALL BE APPLIED IN 8" LIFTS - EA. LIFT SHALL BE COMPACTED TO 95% DRY COMPACTION PER THE "MODIFIED PROCTOR METHOD"

NOTE!
PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS - PRIME EACH F.D. INDIVIDUALLY. DO NOT MANIFOLD.

NOTE:
Where water heaters or hot water storage tanks are installed above a the ground floor space, or in attics or ceiling areas, the tank or water heater shall be installed in a galvanized steel or other metal pan of equal corrosion resistance having a minimum thickness of 24 gage, 0.0276 inch (0.70 mm). Electric water heaters shall be installed in a metal pan as herein required or in a high-impact plastic pan of at least 0.0625 inch (1.59 mm) thickness.

Pan size and drain. The pan shall not be less than 1-1/2 inches (38 mm) deep and shall be of sufficient size and shape to receive all dripping or condensate from the tank or water heater. The pan shall be drained by an indirect waste pipe having a minimum diameter of 3/4 inch.

Pan drain termination: The pan drain shall extend full-size and terminate over a suitably located indirect waste receptor or floor drain or extend to the exterior of the building and terminate not less than 6 inches (152 mm) or more than 24 inches (610 mm) above the adjacent ground surface.



SANITARY RISER

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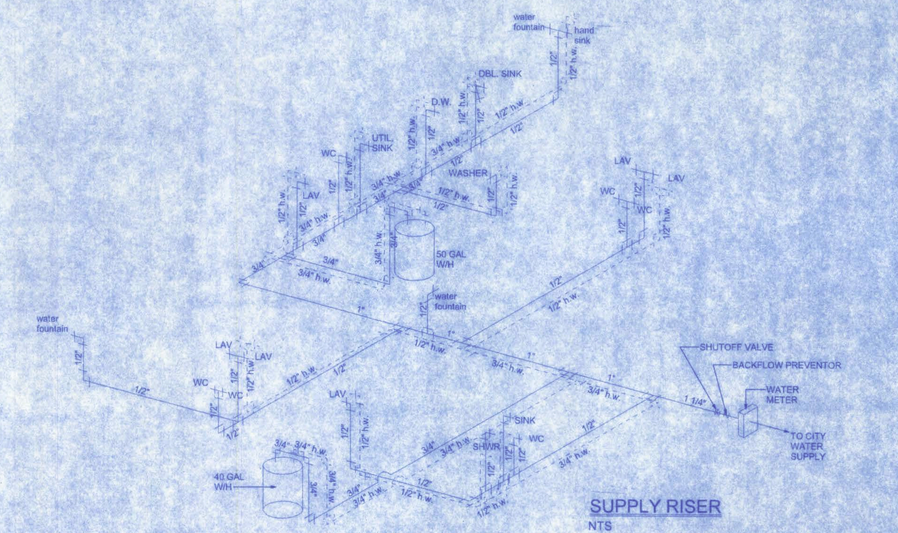

SUPPLY RISER

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HART-2-HART ACADEMY

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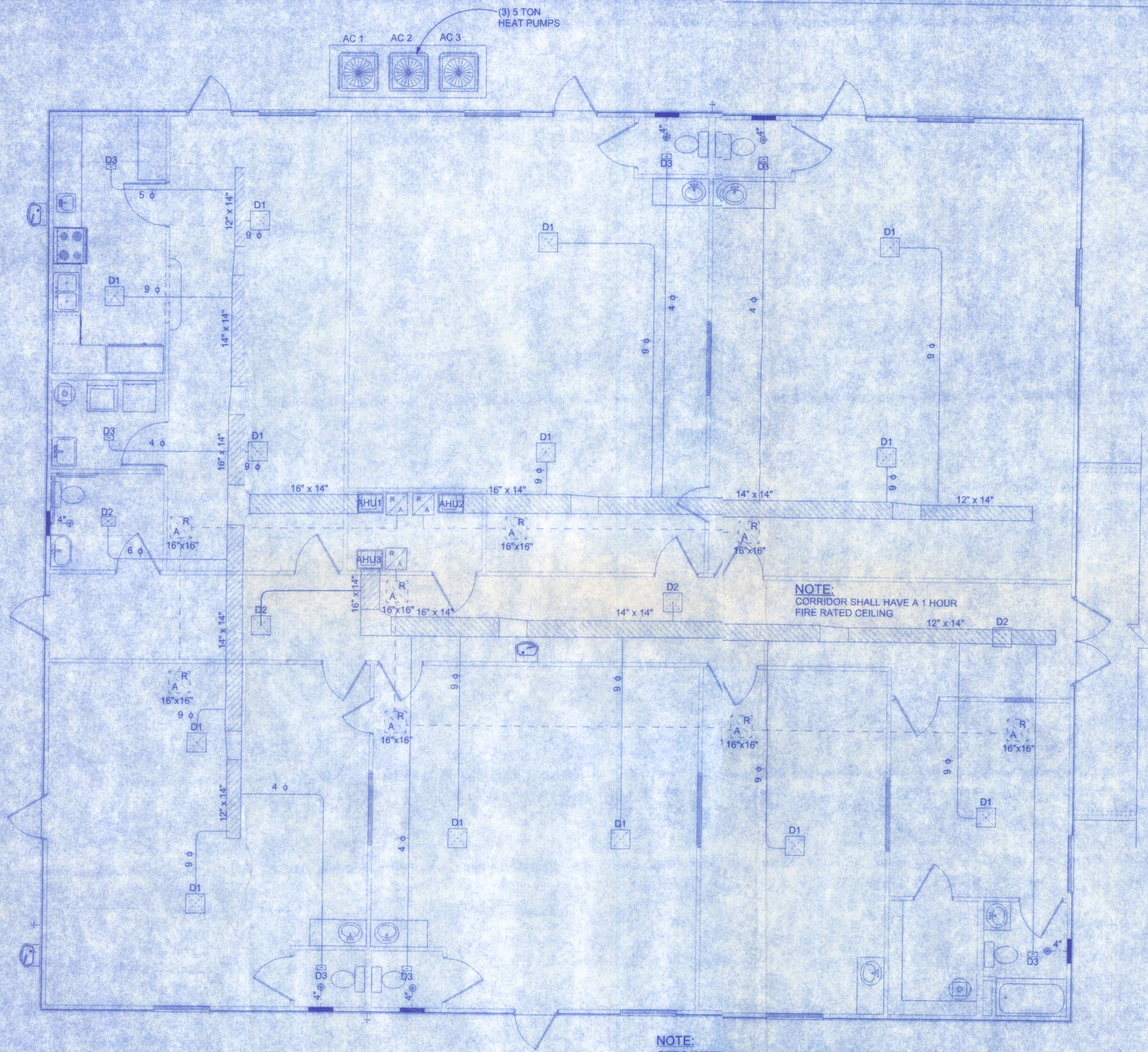
REVISIONS	
SHEET P-1 OF 1	
PROJECT NO. 08.C040	



HVAC PLAN

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

HVAC NOTES

1. SUB-CONTRACTORS PROVIDING HVAC INSTALLATION SHALL BE SUJECT TO THE PROVISIONS OF NOTES 1 THRU 6, GENERAL NOTES.
2. HVAC SUB-CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, TOOLS AND EQUIPMENT TO INSTALL A COMPLETE HVAC SYSTEM.
3. HVAC SYSTEM SHALL BE AS DETAILED IN THE PLANS (IF INCLUDED) OR SHALL BE AS DIRECTED BY THE OWNER IN CONSULTATION WITH THE HVAC SUB-CONTRACTOR.
4. HVAC SUB-CONTRACTOR SHALL FURNISH SHOP DRAWINGS FOR DUCTWORK, CONDENSING UNIT & AIR HANDLER, EXHAUST FANS AND AIR DEVICES.
5. IT IS THE HVAC SUB-CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH NFPA-90A AND ALL APPLICABLE CODES.
6. FLEXIBLE DUCT SHALL BE FULLY ANNEALED, CORRUGATED ALUMINUM W/ 1 3/4 LB. DENSITY FIRBERGLASS INSULATION AND SHALL BE UL LISTED. SHEET METAL DUCT SHALL BE LINED W/ 1" MATFACED DUCT LINER & WRAPPED W/ 1 3/4 L. FOILFACED FIBERGLASS INSULATION. ALL FIBERGLASS DUCT SHALL BE FOILFACED, R4.3/R6.0 DUCTBOARD.
7. ALL EXHAUST AND OUTSIDE AIR DUCT SHALL BE GALVANIZED SHEET METAL CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHREA AND SMACNA STANDARDS.
8. ALL AIR DEVICES SHALL BE OF ALUMINUM CONSTRUCTION FOR WALL AND CEILING APPLICATIONS AND STEEL CONSTRUCTION IN FLOOR APPLICATIONS. ACCEPTABLE MANUFACTURERS SHALL BE TITUS, METALAIRE, NAILORHART, HART & COOLIE OR AS DIRECTED BY THE OWNER.
9. IF REQUIRED BY THE OWNER, THE HVAC SUB-CONTRACTOR SHALL SUPPLY A TEST AND BALANCE REPORT IN ACCORDANCE WITH AIR BALANCE COUNCIL STANDARDS, SIGNED AND SEALED BY A REGISTERED ENGINEER.
10. HVAC SUB-CONTRACTOR SHALL SUPPLY ALL CONTRACTORS, RELAYS AND THERMOSTATS. THE ELECTRICAL SUB-CONTRACTOR SHALL PROVIDE ALL SWITCHES, DISCONNECTS & CONTROL WIRING. THERMOSTATS SHALL BE APPROVED BY THE EQUIPMENT MANUFACTURER.
11. ALL DUCT SIZES INDICATED IN THE PLANS (IF INCLUDED) ARE NET INSIDE DIMENSION.
12. ALL EQUIPMENT SHALL BE FULLY WARRANTED FOR 1 YEAR AND THE COMPRESSOR(S) SHALL BE WARRANTED 5 YEARS FROM DATE OF FINAL ACCEPTANCE, BY THE OWNER.
13. ALL WORK IN THIS TRADE SHALL BE COORDINATED WITH ALL OTHER TRADES SO AS TO AVOID CONFLICTS OR HINDRANCE TO COMPLETION OF THE JOB
14. CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1.2" THICK ARMAFLEC INSULATION.
15. FILTERS SHALL BE DISPOSABLE TYPE AND HAVE INITIAL SHARE WEIGHT ARRESTANCE OF 10% AND A CLEAN PRESSURE DROP OF 0.15 PROVIDE 2 SETS, ONE DURING CONSTRUCTION AND ONE FOR USE AT FINAL ACCEPTANCE.
16. HVAC SUB-CONTRACTOR SHALL PROVIDE & INSTALL ALL NECESSARY OFFSETS, TRANSITIONS & BENDS REQUIRED TO PROVIDE A COMPLETE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
17. IT IS THE RESPONSIBILITY OF THE HVAC SUB-CONTRACTOR TO COORDINATE LOCATION OF CEILING DIFFUSERS, GRILLES AND REGISTERS IN THE FIELD WITH THE ELECTRICIAN, LIGHTS AND ARCHITECTURAL ELEMENTS.
18. COORDINATE W/ THE ELECTRICIAN, TO ASSURE SUITABLE SIZES OF BREAKER, SWITCHES AND WIRING.

DIFFUSER SCHEDULE

MK	CFM	SIZE	PATTERN	LOCATION
D1	280	24" x 24"	4W	CLG.
D2	160	8" x 12"	1W	CLG.
D3	70	4" x 8"	1W	CLG.

REQUIRED OUTDOOR VENTILATION PER TABLE 403.3 FMC.

LOCATION	CFM/PERSON	TOTAL CFM
OFFICE/ROOMS	20 CFM/PERSON 206 OCCUPANTS x 20 = 4,120 CFM	4,120
TOILET AREA	50 CFM/W.C. X 6 W.C. = 300 CFM	300

EXHAUST REQUIREMENTS PER BATHROOM

LOCATION	CFM/W.C.	TOTAL CFM
OFFICE	50 CFM/W.C. x 1 = 50 CFM	50 CFM
1 YEAR OLDS	50 CFM/W.C. x 1 = 50 CFM	50 CFM
2 YEAR OLDS	50 CFM/W.C. x 1 = 50 CFM	50 CFM
3 YEAR OLDS	50 CFM/W.C. x 1 = 50 CFM	50 CFM
4&5 YEAR OLDS	50 CFM/W.C. x 1 = 50 CFM	50 CFM
HANDICAPPED	50 CFM/W.C. x 1 = 50 CFM	50 CFM

NOTE:
BATHROOM EXHAUST SHALL BE DIRECTED TO OUTSIDE OF BUILDING. EXHAUST AIR SHALL NOT BE DIRECTED ONTO WALKWAYS. AIR EXHAUST OPENINGS SHALL BE PROTECTED WITH CORROSION-RESISTANT SCREENS, LOUVERS OR GRILLS IF TERMINATING OUT DOORS.

NOTE:
FIRE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF UL 555 AND SHALL BEAR THE LABEL OF AN APPROVED TESTING AGENCY. FIRE DAMPERS SHALL BE CLASSIFIED AND IDENTIFIED FOR USE IN EITHER:
1. STATIC SYSTEMS THAT AUTOMATICALLY SHUT DOWN IN THE EVENT OF FIRE.
2. DYNAMIC SYSTEMS THAT OPERATE IN THE EVENT OF FIRE.

NOTE:
FIRE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS IN THE FOLLOWING LOCATIONS:
1. DUCTS PENETRATING WALLS OR PARTITIONS HAVING A FIRE RESISTANCE RATING OF 1 HOUR OR MORE.
2. DUCTS PENETRATING SHAFT WALLS HAVING A FIRE RESISTANCE RATING OF 1 HOUR OR MORE.

HART-2-HART ACADEMY

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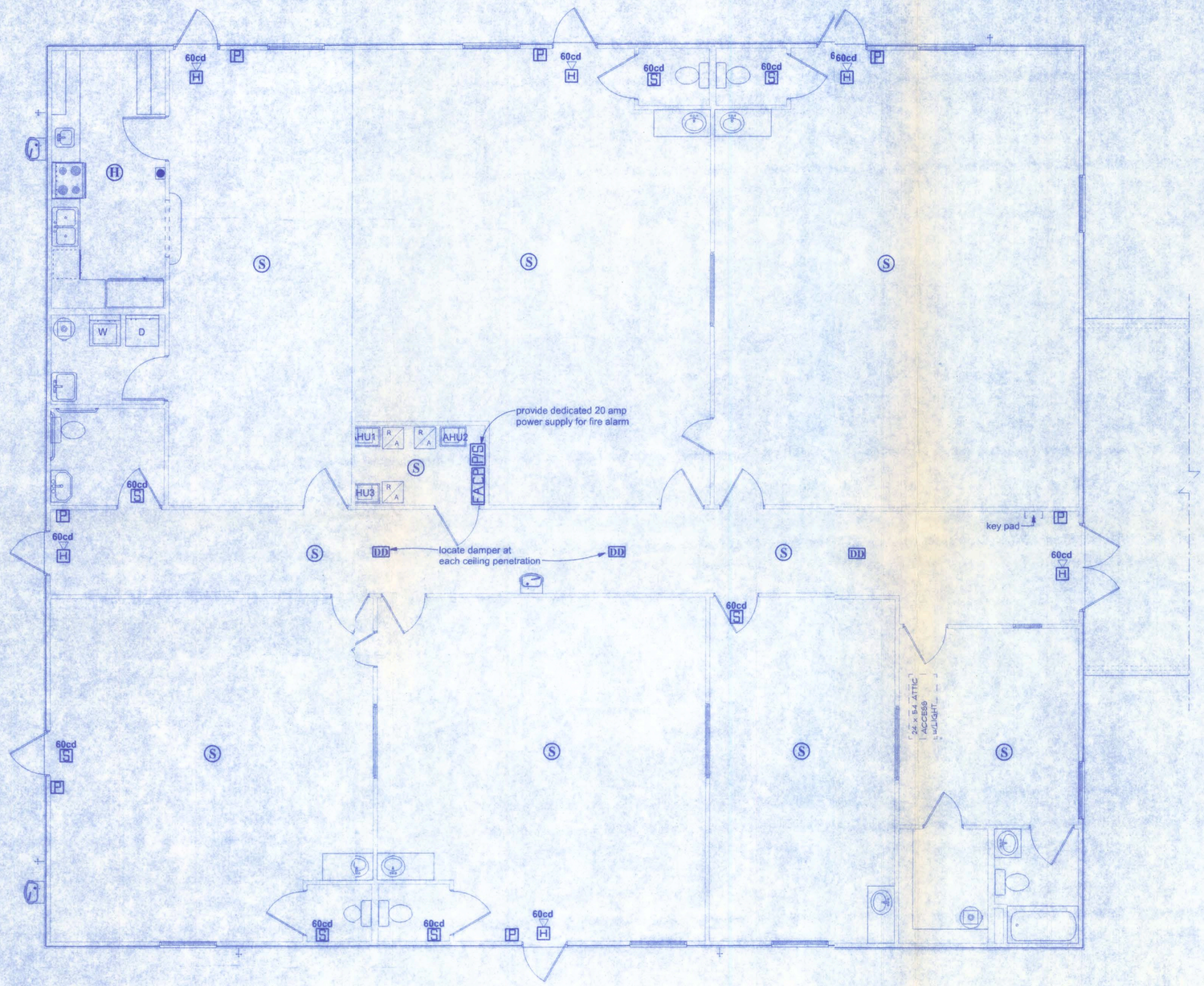
12/08/08	T.D.
	APPROVED W.H.F.

REVISIONS

SHEET M-1
OF 1

PROJECT NO. 08-C040



FIRE ALARM PLAN

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

ELECTRICAL	COUNT	SYMBOL
Damper Detector	3	DD
Fire Alarm Control Panel	3	FACP
Heat Detector	1	H
Horn-Strobe 60cd	6	60cd H
20 Amp dedicated ckt	1	P/S
Pull Station	7	P
Smoke Detector	10	S
Strobe 60cd	7	60cd S

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FIRE DEPARTMENT NOTIFICATION:

THE FIRE ALARM SYSTEM SHALL BE ARRANGED TO TRANSMIT THE ALARM AUTOMATICALLY TO THE FIRE DEPARTMENT IN ACCORDANCE WITH NFPA 72 BY MEANS OF ONE OF THE FOLLOWING METHODS AS APPROVED BY THE BUILDING OFFICIAL:
1. an auxiliary alarm system, or
2. a central station connection, or
3. a proprietary system, or
4. a remote station connection.

Exception:
Where none fo the above means of notification is available, a plan for notification of the fire department, acceptable to the building official, shall be provided.

NOTE:
The HVAC contractor shall provide relay switches from each smoke damper to connect to the alarm system.

MOUNTING HEIGHT:
key pad - 48"
smoke detector - ceiling
horn strobe - 81"
pull station - 48"
strobe - 81"

William H. Freeman 12/30/13 P.E. #35081

HART-2-HART ACADEMY

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REVISIONS

SHEET E-1
OF 1

PROJECT NO. 08.C040